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Rev. 07/10/02

### **CURRENT CONDITIONS REPORT**

GM POWERTRAIN BEDFORD FACILITY 105 GM DRIVE BEDFORD, INDIANA

EPA ID# IND006036099

Volume II - Appendix A through E

Prepared For: GM/ENCORE

### APPENDICES

MAY 25, 2001

### APPENDIX A

VOLUNTARY CORRECTIVE ACTION AGREEMENT



# Worldwide Facilities Group Environmental & Regulatory Support Remediation Team

March 20, 2001

Mr. Robert Springer, Director Waste Pesticides and Toxics Division Region 5 U.S. Environmental Protection Agency 77 W. Jackson Blvd (DW-8J) Chicago, Illinois 60604-3590

RE:

Return of Fully Executed Bedford Voluntary Corrective Action Agreement

Bedford, Indiana

Dear Mr. Springer:

Enclosed is one fully executed copy of the Voluntary Corrective Action Agreement (signed by U.S. EPA on March 16, 2001) for the General Motors Powertrain Bedford Plant Site (U.S. EPA ID# IND006036099), located in Bedford, Indiana. Figure 1 is being sent under separate cover. Please note that General Motors recognizes the need to protect luman health and the environment and will not wait until the end of the project to address those issues. GM intends to take interim measures, where practicable, during the process to address problems as they are identified and defined.

Please call Cheryl Hiatt at 313-556-9032 or Jean Caufield at 313-556-0845 if you require any further information.

Sincerely,

William J. McFarland

Director Remediation

Worldwide Facilities Group

General Motors Corporation

Enclosure

pc: Peter Ramanauskas, U.S. EPA

William & mFarland

Hak Cho, U.S. EPA
Gerald Phillips, U.S. EPA
Jean Caufield, GM WFG
Cheryl Hiatt, GM WFG
Michelle Fisher, GM Legal

Laura Fitzpatrick, GM Legal

Bill Schoonmaker/Kim Dobosenski, GM Bedford

# Voluntary Corrective Action Agreement Between The United States Environmental Protection Agency and General Motors Corporation For GM Powertrain Group - Bedford Plant, Bedford

#### l. Purpose

The United States Environmental Protection Agency (U.S. EPA) and General Motors Corporation (GM), collectively referred to as the Parties, establish this Agreement to enable GM to work independently and voluntarily to investigate, and as necessary stabilize and remediate releases of hazardous wastes or hazardous constituents at or from the GM Powertrain Group-Bedford Plant, more particularly delineated in attached Figure 1, (the "Site") located in Bedford, Indiana that may present an unacceptable risk to human health or the environment. The Parties believe that GM will appropriately, efficiently and effectively investigate and, as necessary, remediate the Site on an accelerated basis by following the procedures and guidelines in this Agreement.

#### II. Background

The Site (U.S. EPA ID# IND006036099) is located at 105 GM Drive, Bedford (Lawrence County), Indiana, 47421. The Bedford Plant produces aluminum casting products, such as transmission cases, pistons, and engine blocks. Major aluminum production processes include die casting and permanent molding.

The Site is bounded to the south by the Canadian and Pacific Railway, Imco, and residential property, to the east by undeveloped land and residential areas, to the north by residential and undeveloped areas, and to the west by former railway, residential, and industrial property.

The Site was originally developed in the early 1900s as limestone milling operations. In 1942, the operation became an Allison Aircraft aluminum engine foundry. After World War II, the Site remained an aluminum foundry, casting automotive parts as part of various General Motors divisions, including Delco-Remy, Allison, Fabricast, Central Foundry, and Powertrain. The Bedford Plant is still in operation today. In 1977, GM purchased a piece of property from the railroad, south of the original Plant, that had formerly included the railroad roundhouse. This property was leased by Mica Metals (a dross reclaimer of aluminum) until 1997. Other parcels, mostly undeveloped, have also been purchased over the years to the north and east of the original property boundaries. The Site today includes 152.5 acres (see attached site map in Figure 1), with approximately one million square feet of floor space.

U.S. EPA and GM expect that GM will investigate, and as necessary remediate, all releases of hazardous wastes or constituents at or from the Site under the guidelines established in this Voluntary Corrective Action Agreement.

#### III. Definitions

Unless otherwise specified herein, terms used in this Agreement which are defined in RCRA or in regulations promulgated under RCRA will have the definitions given to them in RCRA or in such regulations.

#### IV. Project Manager

U.S. EPA and GM will each designate a Project Manager and notify each other in writing of the Project Manager selected within 14 days of the effective date of this Agreement. Each Project Manager will be responsible for overseeing the implementation of this Agreement. The parties will provide prompt written notice whenever they change Project Managers.

#### V. Work to be Performed

GM agrees to perform the actions specified in this section, in the manner and by the dates specified herein. GM will perform the work undertaken pursuant to this Agreement in compliance with RCRA and other applicable Federal and State laws and their implementing regulations, and consistent with all relevant U.S. EPA guidance documents as appropriate to the Site. This guidance includes, but is not limited to, the Documentation of Environmental Indicator Determination Guidance, and relevant portions of the Model Scopes of Work for RCRA Corrective Action and of U.S. EPA's Risk Assessment Guidance for Superfund.

- 1. GM will complete activities necessary to identify and define the nature and extent of releases of hazardous waste and/or hazardous constituents at or from the Site.

  These activities include:
  - a. Provide to U.S. EPA, within 120 days after the effective date of this Agreement, a brief Current Conditions Report covering all areas of the Site. The Current Conditions Report will include any recent sampling data and a summary of the historic operations, remedial efforts, and physical setting of the Site. The Current Conditions Report, in total, will describe, at a minimum, conditions at the locations identified in the Indiana Department of Environmental Management (IDEM) Preliminary Assessment, dated April 30, 1985 and any past or present locations at the Site for which GM knows of past treatment, storage, or disposal of hazardous waste or hazardous constituents.
  - b. Perform phased investigations, at a minimum, at the locations identified in the Current Conditions Report as needing further investigation to identify the nature and extent of any releases of hazardous waste and/or hazardous constituents at

or from the Site which may pose an unacceptable risk to human health or the environment, and provide a report to U.S. EPA. The report will also describe the nature and extent of any releases of hazardous waste and/or hazardous constituents at or from the Site which do not pose an unacceptable risk to human health or the environment, and provide the basis for those conclusions, including an evaluation of the risks. The report may be prepared in phases to provide timely support for the demonstrations described in Section V.2, below, and for the determinations and proposal described in Section V.3, below. If investigation determines that acceptable risks to human health or the environment are exceeded, GM will determine the need for interim measures based on a professional evaluation of the data and will notify the U.S. EPA of the planned course of action.

- c. GM may choose to proceed with remedial actions to limit site investigation or risk assessment activities in order to complete the work as defined in Sections V.2 and V.3 below.
- 2. GM will demonstrate by the dates indicated, through submitting an Environmental Indicators Report and by performing any other necessary activities, consistent with this Section, that:
  - a. By January 30, 2005, all current human exposures to contamination at or from the Site are under control. That is, for all media known or reasonably suspected to be contaminated with hazardous wastes or hazardous constituents above risk-based levels, for which there are complete pathways between contamination and human receptors, significant or unacceptable exposures do not exist.
  - b. By April 30, 2007, migration of contaminated groundwater at or from the Site is stabilized. That is, the migration of all groundwater known or reasonably suspected to be contaminated with hazardous wastes or hazardous constituents above acceptable levels is stabilized to remain within any existing areas of contamination as defined by monitoring locations designated at the time of the demonstration. In addition, any discharge of groundwater to surface water is either insignificant or shown to be currently acceptable according to an appropriate interim assessment. Monitoring and measurement data must be collected in the future as necessary to verify that migration of any contaminated groundwater is stabilized.
  - c. In order to prepare for and provide the demonstrations required by Sections V.2.a and V.2.b., above, GM will:
    - i. Determine appropriate risk screening criteria under current use scenarios and provide the basis and justification for the use of these criteria.
    - ii. Determine any current unacceptable risks to human health and the environment and describe why other identified risks are acceptable.

- iii. Control any unacceptable current human exposures that are identified. This may include performing any corrective actions or other response measures ("Corrective Measures") necessary to control current human exposures to contamination to within acceptable risk levels.
- iv. Stabilize the migration of contaminated groundwater. This may include implementing any Corrective Measures necessary to stabilize the migration of contaminated groundwater.
- v. Conduct groundwater monitoring to confirm that any contaminated groundwater remains within the original area of contamination.
- vi. Prepare a report, either prior to or as part of the Environmental Indicators Report, that provides a description and justification for any interim actions performed to meet the requirements of this Section, including sampling documentation, construction completion documentation, and/or confirmatory sampling results.

#### 3. Final Corrective Measures:

- a. GM will propose to U.S. EPA by December 31, 2007, final Corrective Measures necessary to protect human health and the environment from all current and future unacceptable risks due to releases of hazardous waste or hazardous constituents at or from the Site (the "Final Corrective Measures Proposal"). The proposal will describe all Corrective Measures implemented at the Site since the effective date of this Agreement. It will also include a description of all other final Corrective Measures evaluated by GM, a detailed explanation of why the proposed final Corrective Measures were preferred by GM, and cost estimates for the final Corrective Measures evaluated. The proposal will also include a detailed schedule to construct and implement the final Corrective Measures and to submit a Final Remedy Construction Completion Report. This schedule will provide that as much of the initial construction work as practicable will be completed within one year after U.S. EPA selects the final Corrective Measures and that all final Corrective Measures will be completed within a reasonable period of time to protect human health and the environment.
- b. As part of developing its proposals, GM must propose appropriate risk screening criteria, cleanup objectives, and points of compliance under current and reasonably expected future land use scenarios and provide the basis and justification for these decisions.
- c. U.S. EPA may request supplemental information from GM if it determines that the proposals and supporting information do not provide an adequate basis to select final Corrective Measures that will protect human health and the environment from the release of hazardous waste or hazardous constituents at or

- from the Site. GM will provide such supplemental information in a timely manner as directed in writing by U.S. EPA.
- d. U.S. EPA will provide the public with an opportunity to review and comment on its proposed final Corrective Measures, including a detailed description and justification for the proposals (the "Statement of Basis"). Following the public comment period, U.S. EPA will select the final Corrective Measures and provide notification of its decision and rationale in a "Final Decision and Response to Comments ("Final Decision").
- e. If GM agrees with U.S. EPA's selection of final Corrective Measures, GM will implement the final Corrective Measures selected in U.S. EPA's Final Decision according to the schedule therein.

#### 4. Reporting and other requirements:

- a. GM will establish a publicly accessible repository for information regarding site activities and conduct public outreach and involvement activities in accordance with U.S. EPA's RCRA public participation guidance, as appropriate for the Site.
- b. GM will provide quarterly progress reports to U.S. EPA by the 15th day of the month following a quarter. The report will list work performed to date, data collected, problems encountered, project schedule, and percent project completed. The parties will communicate frequently and in good faith to assure successful completion of the requirements of this Agreement, and will meet on at least a semi-annual basis to discuss the work proposed and performed under this Agreement.
- c. GM will provide a Final Remedy Construction Completion Report documenting all work that it has performed pursuant to the schedule in U.S. EPA's Final Decision.
- d. If ongoing monitoring or operation and maintenance is required after construction of the selected final Corrective Measures, GM will include an operations and maintenance plan in the Final Remedy Construction Completion Report. GM will revise and resubmit the Report in response to U.S. EPA's written comments, if any, by the dates U.S. EPA specifies. Upon U.S. EPA's written approval, GM will implement the approved operation and maintenance plan according to the schedule and provisions contained therein.
- e. Any risk assessments conducted by GM must estimate human health and ecological risk under reasonable maximum exposure for both current and reasonably expected future land use scenarios. Risk assessments will be conducted in accordance with the Risk Assessment Guidance for Superfund (RAGS) or other appropriate U.S. EPA guidance. GM will use appropriate, conservative screening values when screening to determine whether further investigation is required. Appropriate screening values may include those

derived from Federal Maximum Contaminant Levels, U.S. EPA Region 9
Preliminary Remediation Goals, U.S. EPA Region 5 Ecological Screening Levels,
U.S. EPA Region 5 Risk Based Screening Levels, U.S. EPA Region 3 Risk
Based Concentration Table, or RAGS.

f. All sampling and analysis conducted under this Agreement will be performed in accordance with the Region 5 RCRA Quality Assurance Project Plan Policy (April 1998) as appropriate for the Site, and be sufficient to identify and characterize the nature and extent of all releases. U.S. EPA may audit laboratories selected by GM or require GM to purchase and have analyzed any Performance Evaluation (PE) samples selected by U.S. EPA which are compounds of concern. GM will notify U.S. EPA in writing at least 14 days before beginning each separate phase of field work performed under this Agreement. At the request of U.S. EPA, GM will provide or allow U.S. EPA or its authorized representative to take split or duplicate samples of all samples collected by GM under this Agreement.

#### VI. Record Preservation

GM will retain, during the pendency of this Agreement and for at least six (6) years after termination of the entire Agreement, all data and all final documents now in its possession or control or which come into its possession or control which relate to this Agreement. GM will notify U.S. EPA in writing 90 days before destroying any such records, and provide U.S. EPA the opportunity to take possession of any such non-privileged documents. GM's notice will refer to the effective date, caption, and docket number of this Agreement and will be addressed to:

Director
Waste, Pesticides and Toxics Division
U.S. EPA, Region 5 (D-8J)
77 W. Jackson Blvd.
Chicago, IL 60604-3590

GM will also promptly provide U.S. EPA's Project Manager a copy of any such notice.

GM further agrees that within 30 days of retaining or employing any agent, consultant, or contractor ("Agents") to carry out the terms of this Agreement, GM will enter into an agreement with the Agents to provide GM a copy of all data and final non-privileged documents produced under this Agreement.

GM agrees that it will not assert any privilege claim concerning any data developed to prepare any reports or conduct any investigations or other actions taken under the Agreement.

#### VII. Modification, Termination and Satisfaction

This Agreement may be modified by written, mutual agreement of the Parties. The Project Managers may agree in writing to extend any deadline in this Agreement. Either Party may unilaterally terminate this Agreement upon written notice to the other Party. U.S. EPA's participation in this Agreement is subject to the Anti-Deficiency Act, 31 USC § 1341.

GM may request that U.S. EPA issue a determination that GM has met the corrective action cleanup objectives for the Site or a portion of the Site. GM will submit documentation that it has achieved the objectives and U.S. EPA will respond in writing indicating whether GM has completed RCRA corrective action. If U.S. EPA agrees that RCRA corrective action is complete it will issue a "No Further Action" determination for all or a portion of the Site.

The provisions of the Agreement will be satisfied upon GM's and U.S. EPA's execution of an "Acknowledgment of Termination and Agreement on Record Preservation and Reservation of Rights", consistent with U.S. EPA's Model Scope of Work. GM's execution of the Acknowledgment will affirm its continuing obligation to preserve all records as required by Section VI, to maintain any necessary institutional controls or other long term measures, and to recognize the Parties' reservation of rights as required in Section VIII.

#### VIII. Reservation of Rights

The Parties reserve any and all rights, remedies, authorities or defenses that they respectively have under law. Nothing in this Agreement limits or affects the authority or ability of either Party to take any action authorized by law. Nothing in this Agreement creates any legal rights, claims or defenses in either Party or by or for any third Party. Nothing in this Agreement relieves GM from complying with applicable federal, state and local laws.

This Agreement does not limit or affect the rights of the Parties against any Third Party, nor does it limit the rights of Third Parties. The Parties agree that this Agreement does not constitute any decision on pre-authorization of funds under §111(a)(2) of CERCLA.

#### IX. Effective Date

This Agreement is effective on the date the last Party signs.

DATE: 3 20 01

BY. <u>Milliam J. McFarland</u>, Director

Remediation

Worldwide Facilities Group General Motors Corporation

DATE: March 16 2001 BY:

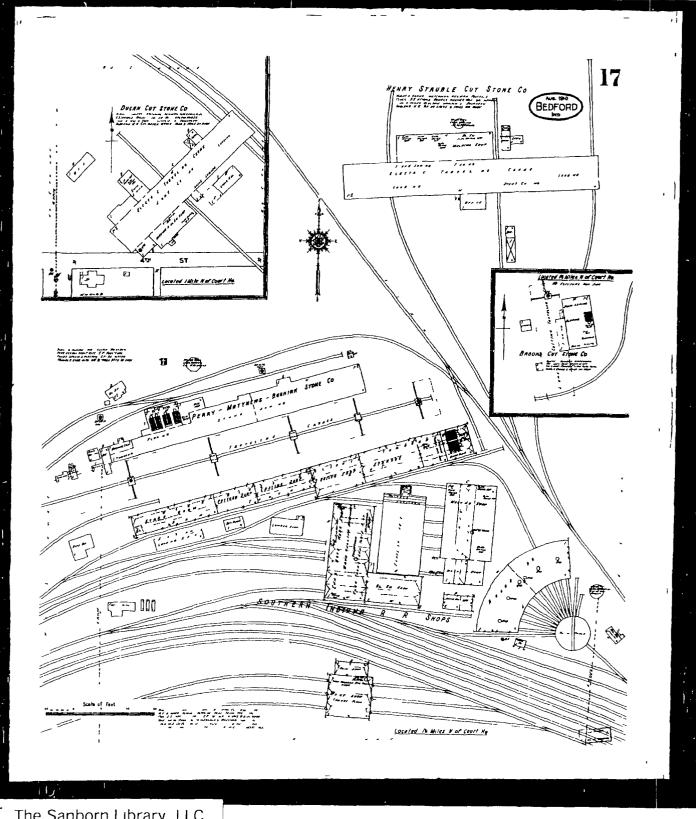
Robert Springer, Director

Waste, Pesticides and Toxics Division U.S. Environmental Protection Agency

Region 5

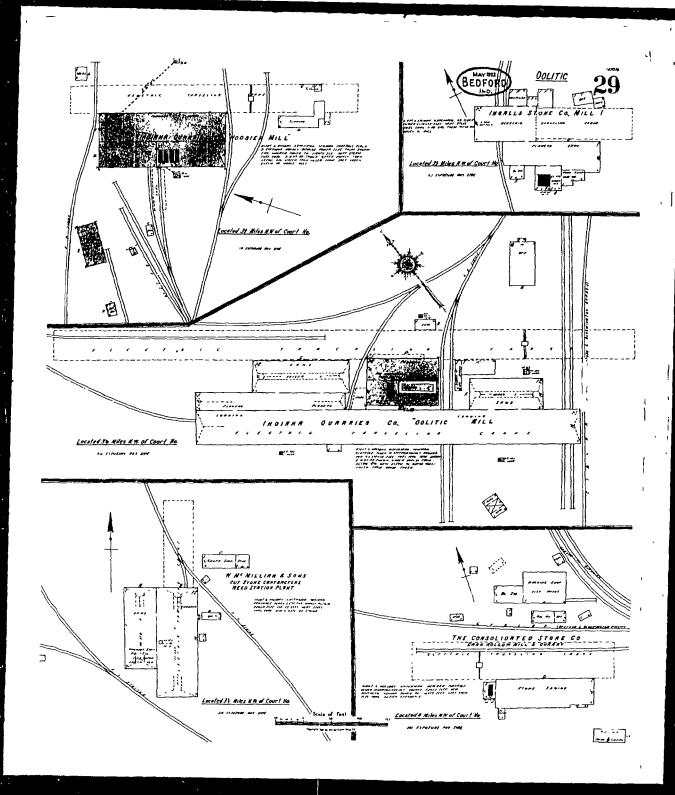
#### APPENDIX B.1

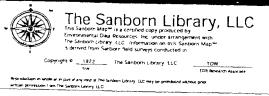
SANBORN MAPS

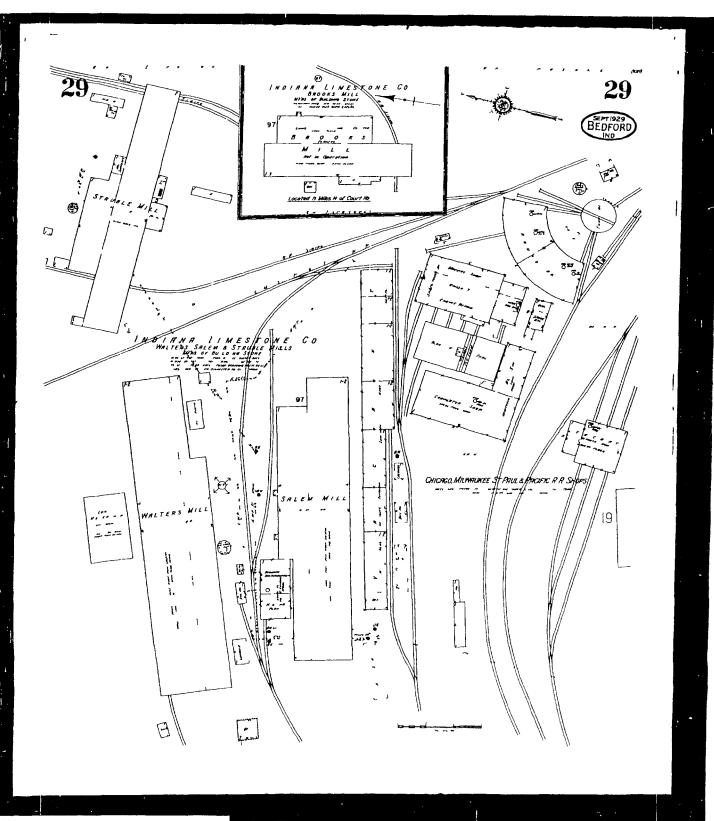




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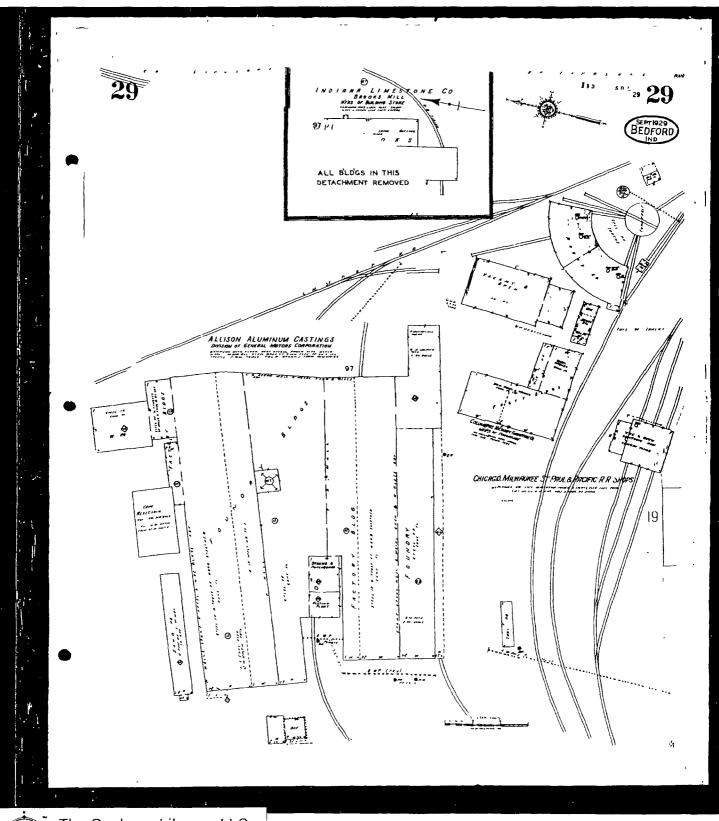






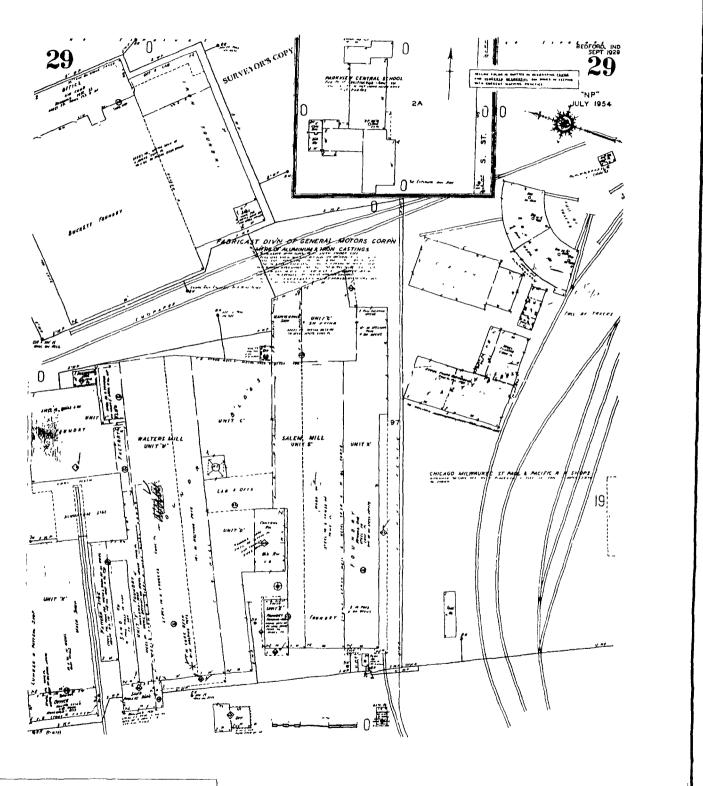


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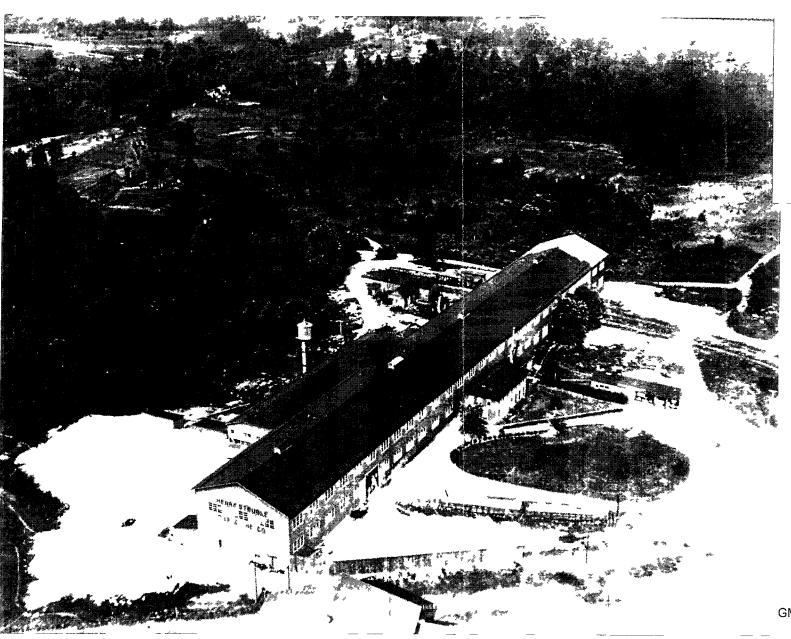
# APPENDIX B.2 HISTORICAL PHOTOGRAPHS

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BEDFORD FACILITY UNDATED

HISTORICAL PHOTOGRAPH 21



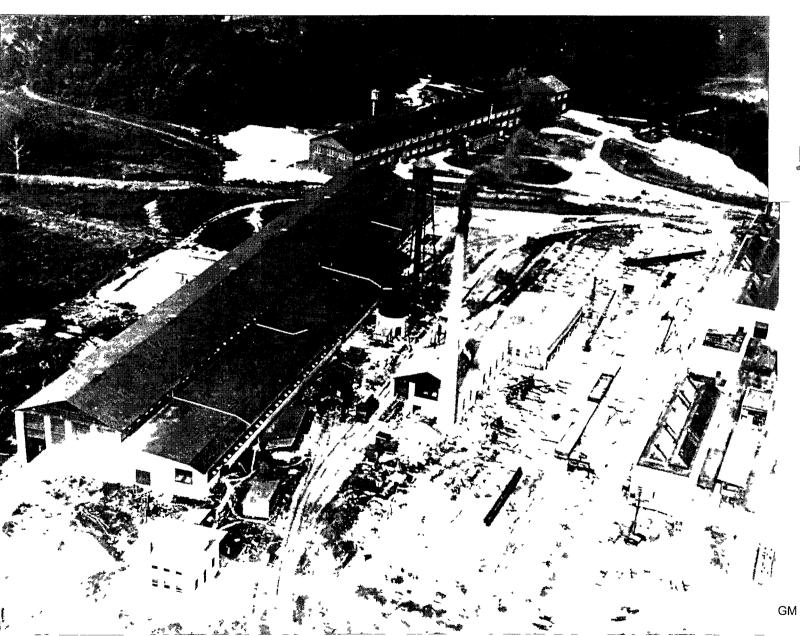


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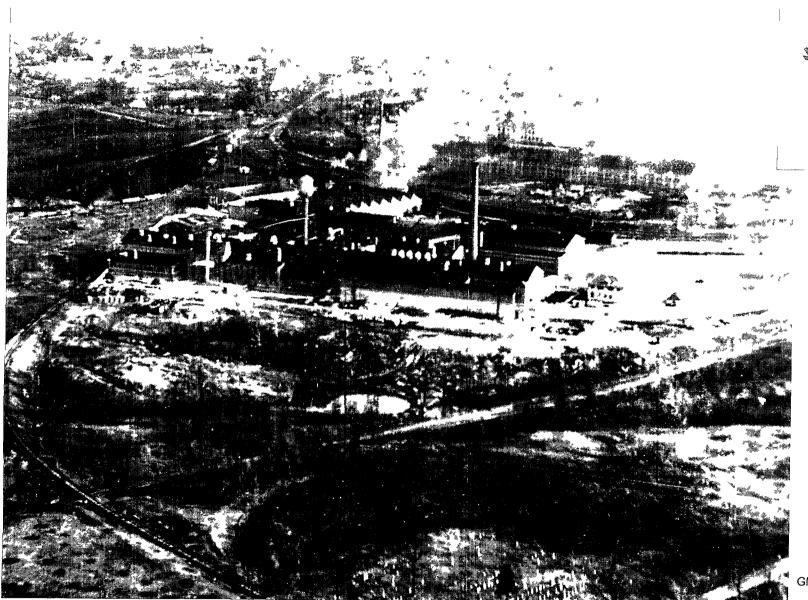


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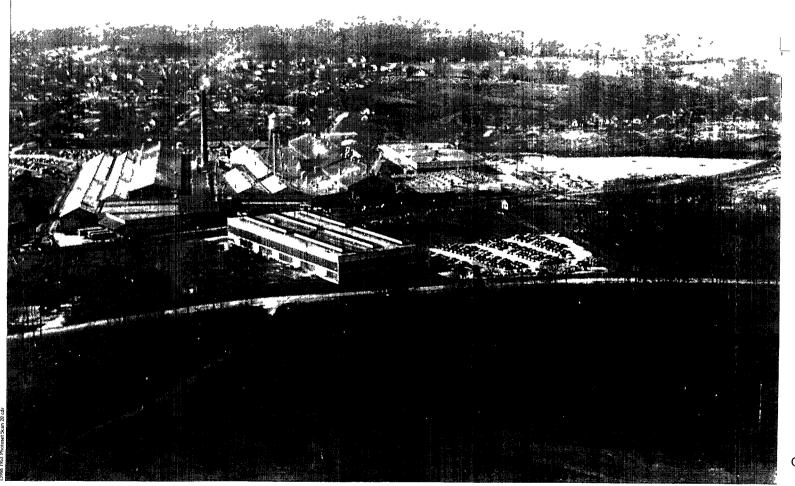




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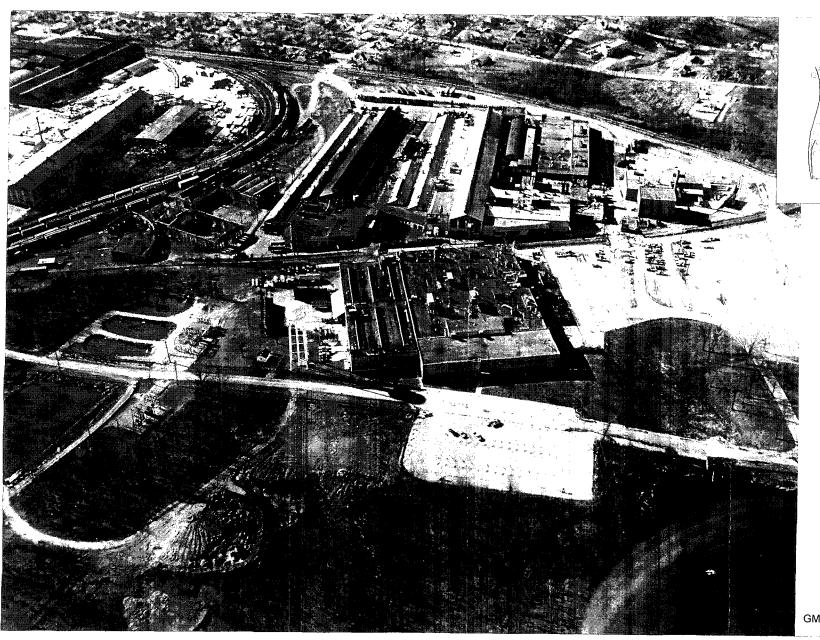


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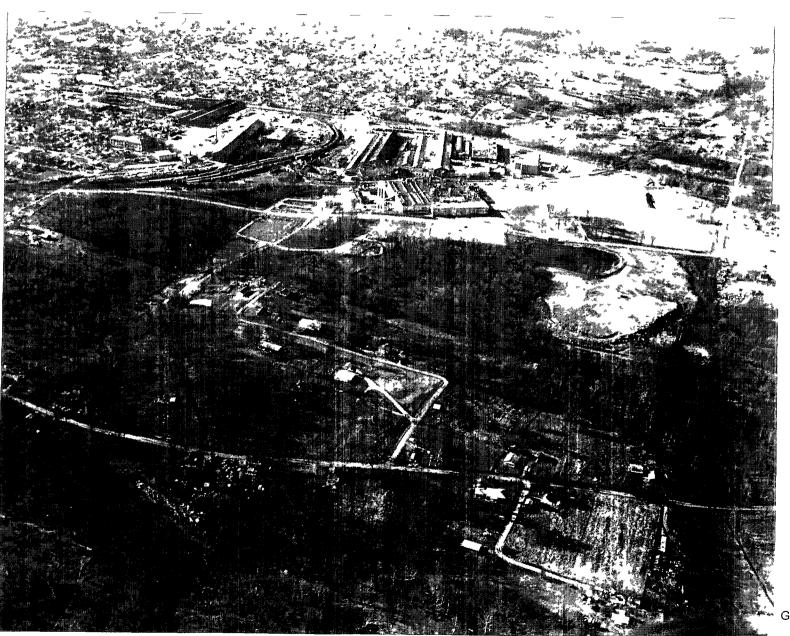




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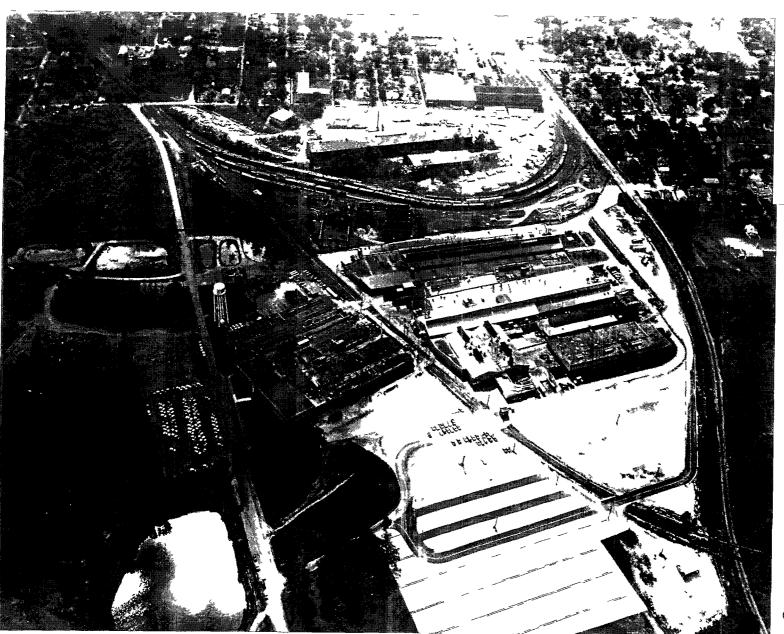


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1970



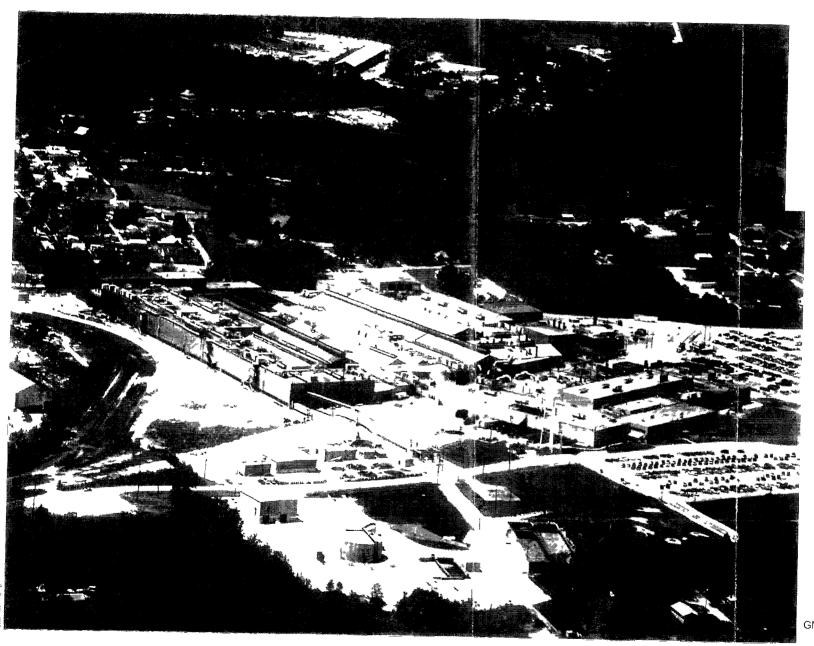


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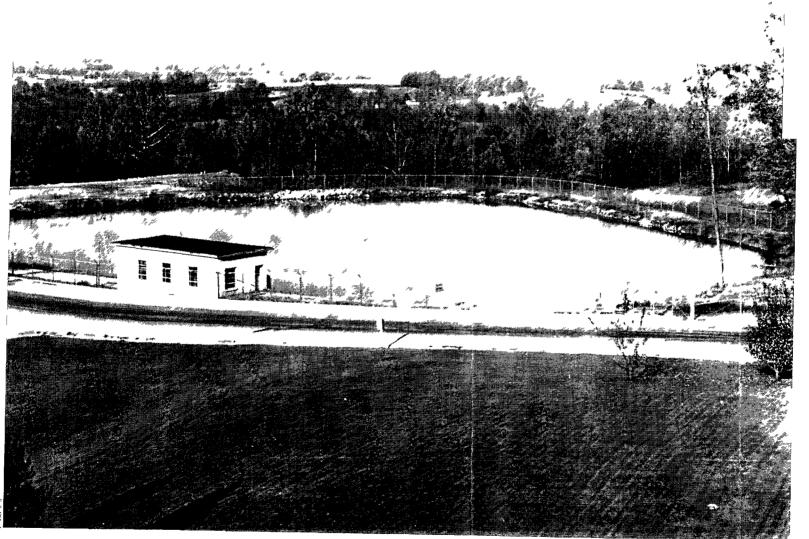


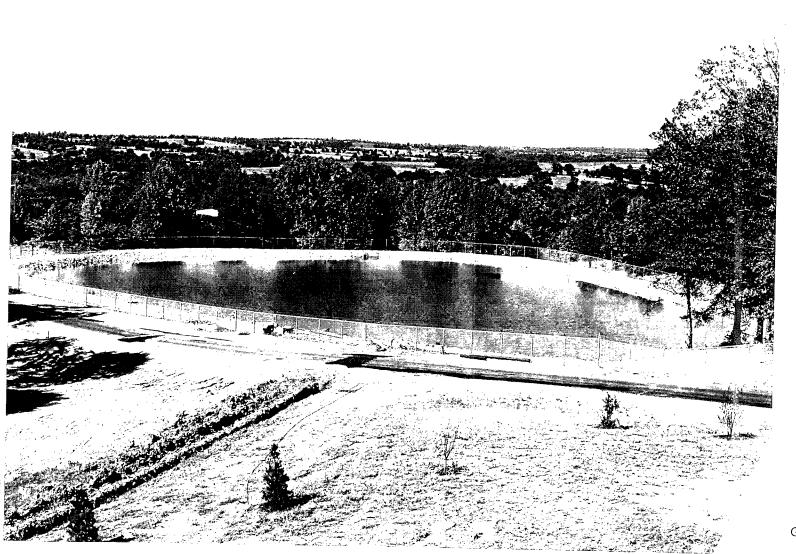
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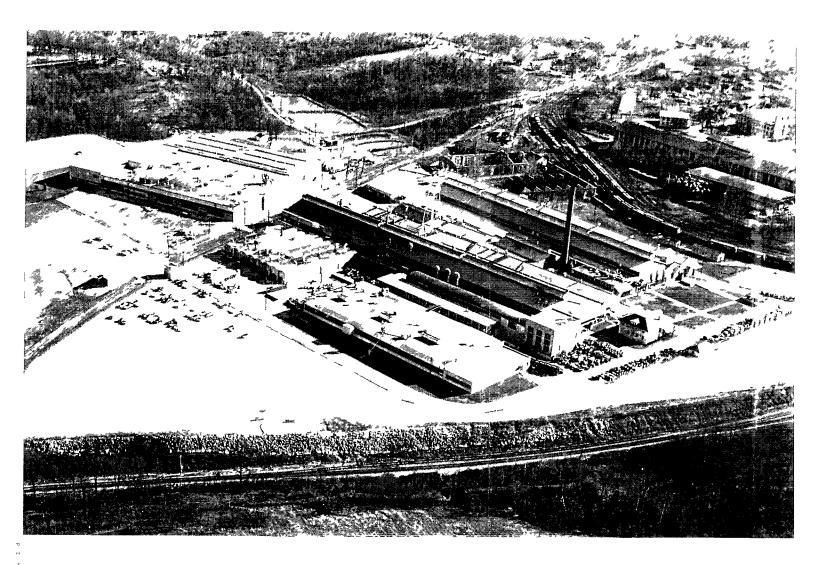




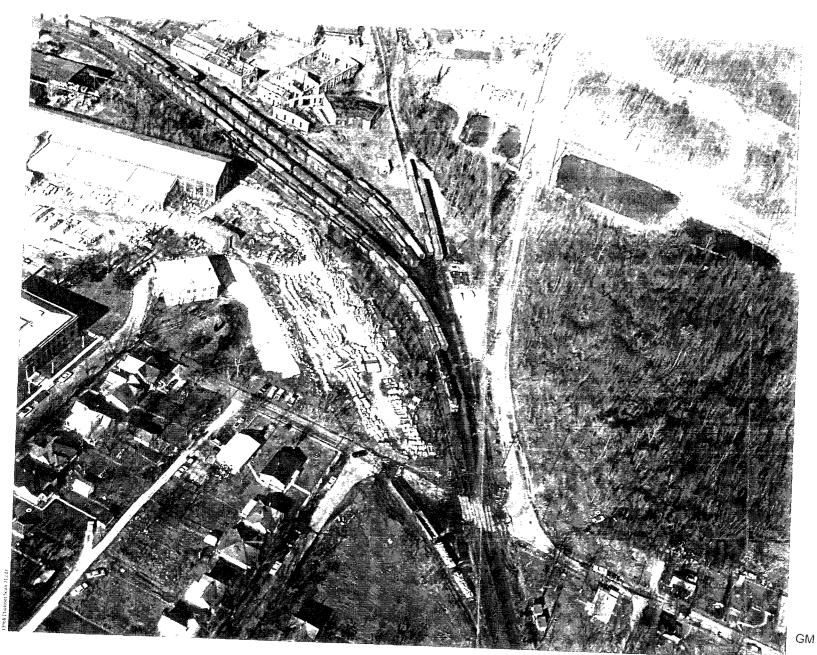
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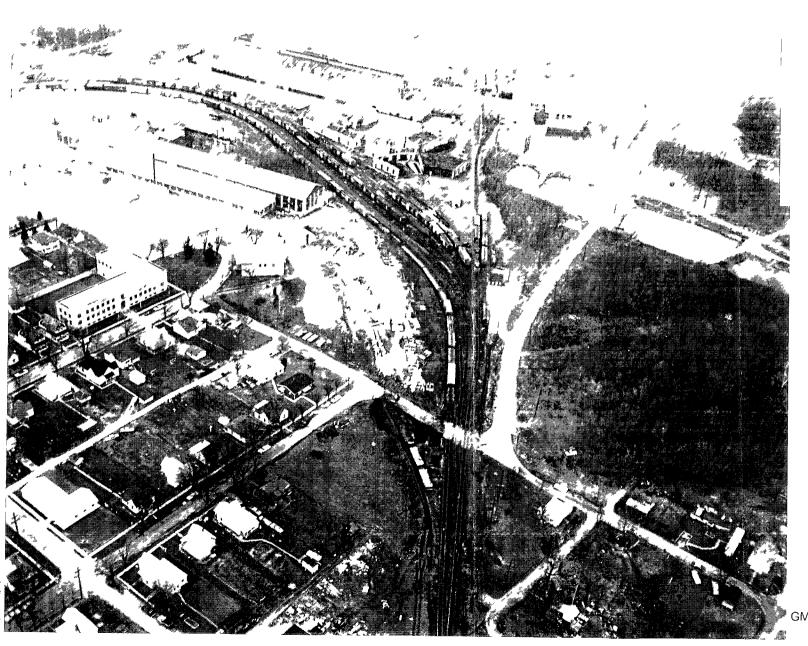




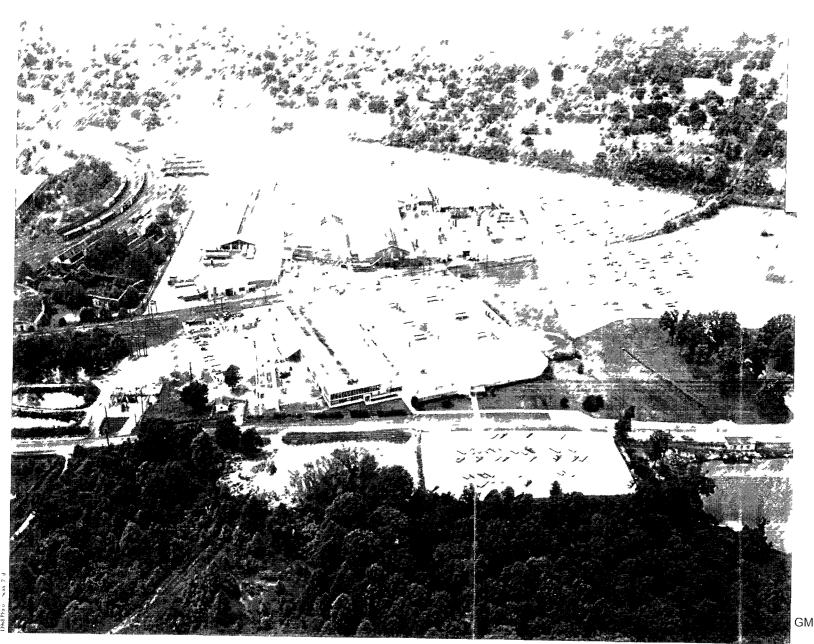




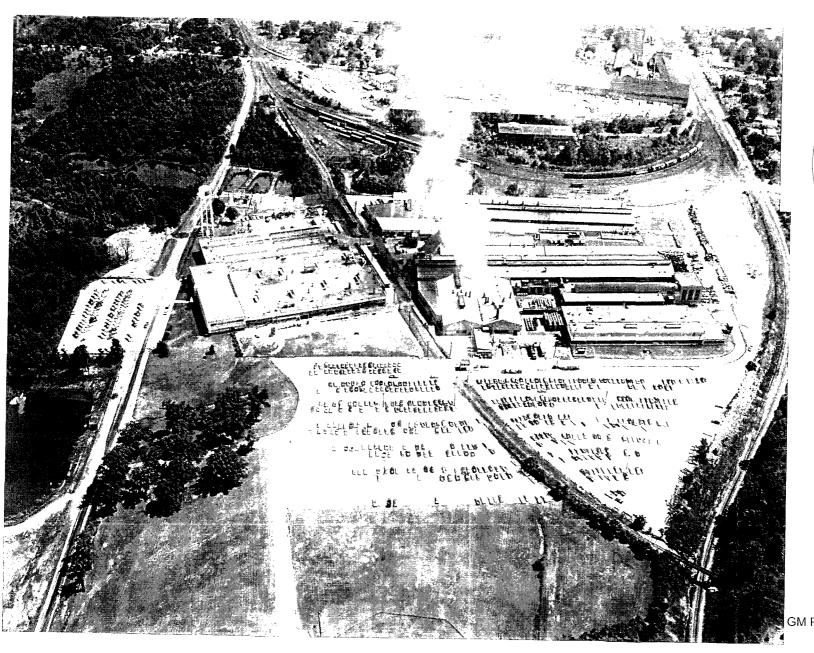


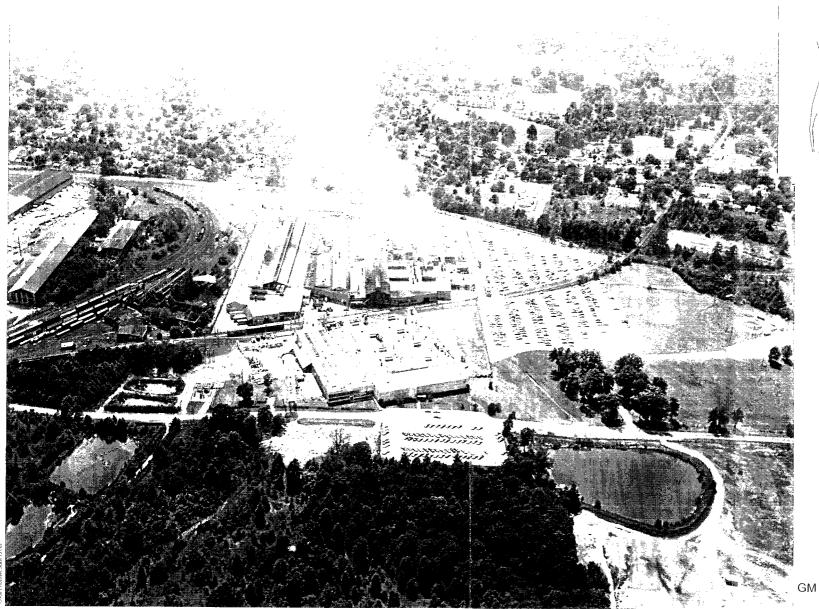


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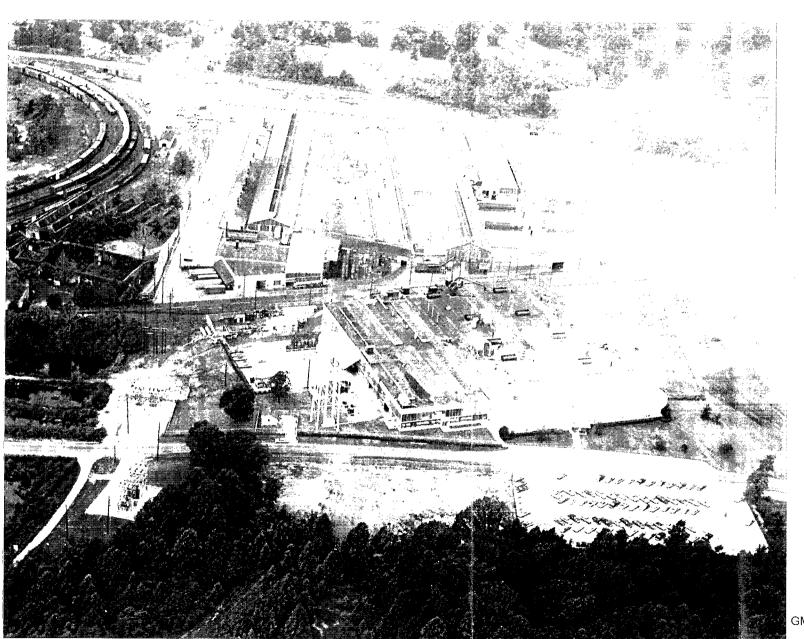


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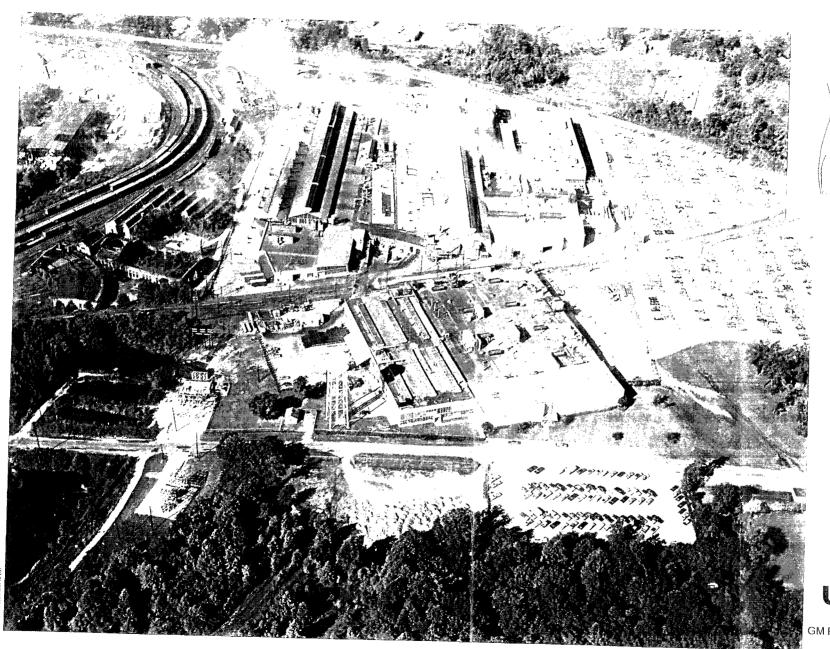




## UNDATED



## UNDATED



## UNDATED

APPENDIX B.3

SPCC



#### GENERAL MOTORS CORPORATION POWERTRAIN GROUP, BEDFORD PLANT

105 GM Drive Bedford, Indiana 47421 24 Hour #: (812) 279-7360

38° 52"43'N Latitude Longitude 86° 9"04'W

#### Release Plan

(Spill Prevention Control and Countermeasure; Contingency; and HAZWOPER Plan)

November 1998

Prepared By:

S.L. Albert

Approved By: B.A. Alexander

Project No.

3162-08/09



3830 Packard Road, Suite 120 · Ann Arbor, MI 48108 734-973-0700 · Fax 734-973-2904

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Attachment D	GM Procedures for Disposal of Wastes			
Attachment E	Bedford Public Relations Guidelines			
Attachment F	Inspection Forms			
Attachment G	GM Truck Loading/Unloading Procedures			
Attachment H	Evacuation Plan			
Attachment I	SPCC Checklist			
Attachment J	Spill History (Included in Environmental Department's copy of plan only.)			
Attachment K	Communications with Local Response / Emergency Facilities			
	(Included in Environmental Department's copy of plan only.)			
Attachment L	Arrangements with Clean-Up Contractors			
Attachment M	Certificate of Liability Insurance from External Spill Responders			
APPENDIX				
Appendix 1	Certification of the Applicability of the Substantial Harm Criteria			
Appendix 2 PCB Addendum				
Appendix 3	Emergency Spill Response Plan (HAZWOPER)			

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 1.0 PLAN INTRODUCTION AND ELEMENTS

#### 1.1 PURPOSE AND SCOPE OF PLAN COVERAGE

This Release Plan has been prepared to consolidate the Spill Prevention Control and Countermeasure Plan, Contingency Plan and the Emergency Spill Response Plan (HAZWOPER) for the General Motors Bedford facility. The purpose of the Release Plan is to provide for preventing unintentional releases of oil and hazardous materials/wastes into the environment and to outline emergency preparedness and response in the event of such a release.

- 1. Code of Federal Regulations 40 CFR 112 require facilities handling oil to develop a Spill Prevention Control and Countermeasure Plan (SPCC).
- 2. Code of Federal Regulations 40 CFR 265 requires facilities that generate hazardous waste to develop a Contingency Plan for preparedness and prevention of unintentional releases into the environment.
- 3. Code of Federal Regulations 29 CFR 1910.120 requires facilities that engage in emergency response to develop an emergency response plan.

In addition, the plan meets the requirements of CERCLA, SARA, and TSCA. This plan shall be updated in accordance with Section 8.0 - Plan Amendment and Submission Requirements.

### 1.2 GENERAL FACILITY INFORMATION

Facility Name: GMC, Powertrain Group, Bedford Plant

Owner/Operator: GMC, Powertrain Group

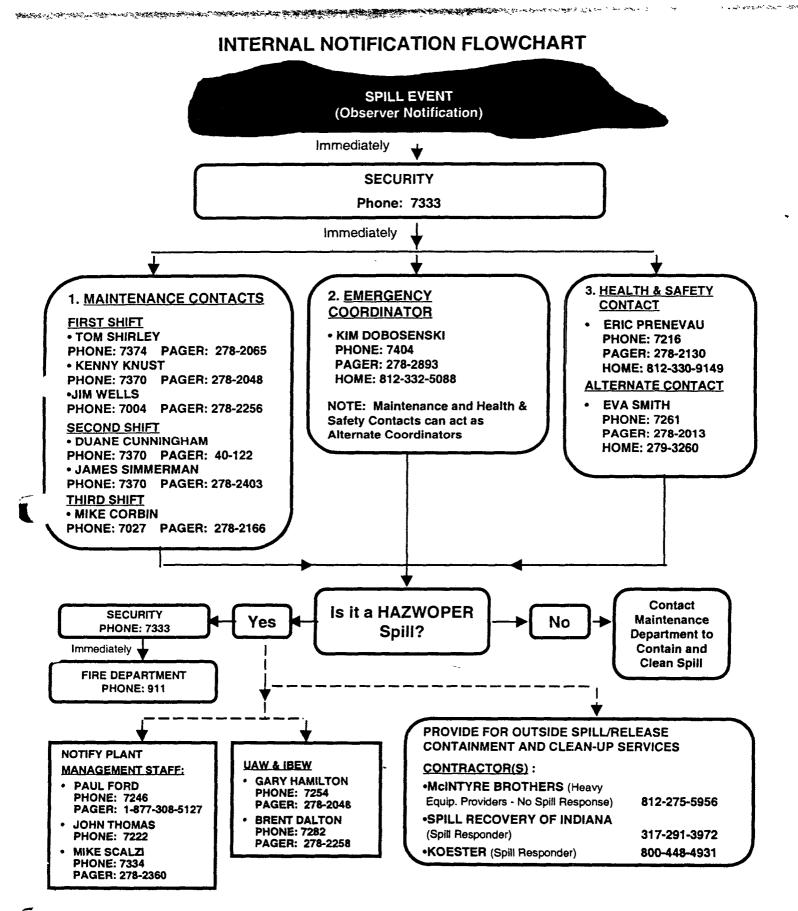
Physical Address: 105 GM Drive (formerly North Jackson Street)

Bedford, IN 47421 Lawrence County

Facility is located in the northeast portion of the City of Bedford.

Mailing Address: 105 GM Drive

Bedford, IN 47421



.nediately" means as soon as possible but no later than 5 minutes of knowledge of spill.

- 2. Immediately page the individual after a voice message, that is marked urgent, has been left at the phone number.
- 3. When paging, enter "911" BEFORE the phone number the person is to call.

Other Information:

SIC Code 3361

SIC Code 3363

EPA ID IND 006036099 Latitude 38° 52"43'N Latitude 86° 29"04'W

24 Hour Phone:

(812) 279-7360

Key Contacts:

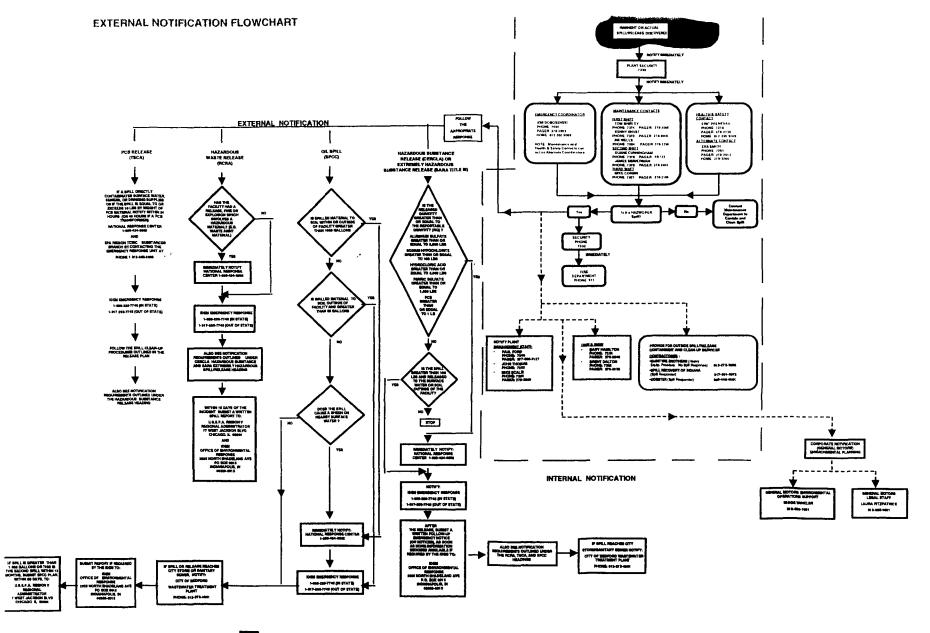
Kimberly Dobosenski Environmental Engineer Phone: (812) 279-7404 Fax: (812) 279-7258

Eric Prenevau

Health and Safety Director Phone: (812) 279-7216

#### JEST PRANTING PROVIDENTATION

This Release Plan is to be followed by plant personnel whenever there is an unplanned sudden or non-sudden release of bulk storage products or of hazardous wastes to air, soil, or surface water of the facility which may cause personal injury or has the potential to leave the plant property.



# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN

#### **SECTION 2.0 CROSS REFERENCE TABLES**

40 CFR SECTION	REQUIREMENT	LOCATION IN PLAN
112.1	General Applicability	Section 1.1
112.2	Definitions	Section 4.1
112.3	Requirements for preparation and implementation of SPCC plans	Section 1.1
112.4	Facility and owner information. Plan amendment requirements by Regional Administrator.  (Two reportable spills trigger plan submittal with additional information required.)	Section 1.2
112.5	Three year review requirement and PE cerufication.  (Plan amendment requirements by owner. Change in facility design and/or capability to discharge.)	Section 3.1, 3.2 and Section 8.0
112.6	Civil penalties	NA
112.7	Management approval and implementation schedule of times to be installed	Section 3.2
112.7(a)	Written description of historical spills, corrective action taken and prevention.	Section 11.1
112.7(b)	Prediction of flow direction, rate and quantity of oil spilled resulting from equipment failure.	Section 10 0
112.7(c)	Containment (dikes, culvering, weirs, diversion ponds, detention ponds, sorbents, collection systems)	Section 7.1 and Table 1 in Section 9.0
112.7(d)	If lacking containment, then demonstrate impracticability and develop contingency plan	Section 4 0
112.7 (e)(1)(i-iv)	Facility drainage (undiked areas, diversion system)	Section 5.3
112.7 (e)(1)(i)and(e)(2)	Dike drainage (valve types used; inspect accumulated storm water)	Section 7.1
112.7 (e)(2)(ı)	Bulk Tanks compatibility (Storage Tank Construction with material stored)	Section 7.1 and Table 1 in Section 9.0
112.7 (e)(2)(ii)	Containment for bulk storage tanks with sufficient freeboard for precipitation. Sufficiently impervious.	Section 7 1 and Table 1
112.7(e)(2)(m)	Dike Drainage (valves normally closed, inspect storm water, drainage records)	Section 7.1 and Section 7.6
112.7(e)(2)(iv)	Underground Tanks (Cathodic Protection and Pressure Testing)	Section 7.2
112.7(e)(2)(v)	Partially buried ranks	Section 7.2
112.7(e)(2)(v1)	Aboveground tank testing and inspections	Section 7.6
112.7(e)(2)(vii)	Control leakage through heating coils	Section 7.1
112.7(e)(2)(viu)	Fail-safe Engineering (alarms and sensing devices on tank installations)	Section 7.1

### **SECTION 2.0 CROSS REFERENCE TABLES (CONT.)**

40 CFR SECTION	REQUIREMENT	LOCATION IN PLAN
112.7(e)(2)(ix)	Plant effluent discharge inspections	Section 7.6
112.7(e)(2)(x)	Repair visible oil leaks	Section 7.1
112.7(e)(2)(xi)	Portable storage tanks location and use of secondary containment	Section 7.1 and Table 1 in Section 9.0
112.7(e)(3)(i)	Facility transfer operations (Buried pipes)	Section 7.4
112.7(e)(3)(ii)	Pipelines out of service	Section 7.4
112.7(e)(3)(iii)	Pipe supports	Section 7.3
112.7(e)(3)(iv)	Valve and pipe inspections	Section 7.6
112.7(e)(3)(v)	Vehicular traffic	Section 7.7 and Attachment G
112.7(e)(4)(i)	Loading/Unload Procedures meet minimum DOT requirements	Section 7.7 and Attachment G
112.7(e)(4)(ii)	Load/Unload drainage	Section 7.7 and Attachment G
112.7(e)(4)(iii)	Warning signs and physical barrier systems - premature departure	Section 7.7 and Attachment G
112.7(e)(4)(iv)	Vehicle valve(s) inspected for leakage prior to filling and departure	Section 7.7 and Attachment G
112.7(e)(5)	Oil production facilities	Section 7.5
112.7(e)(6)	Oil production facility drainage	Section 7.5
112.7(e)(7)	Oil production and workover facilities	Section 7.5
112.7(e)(8)	Inspection and Records	Section 7.6 and Attachment F
112.7(e)(9)(i)	Security (Fenced site and access gates guarded)	Section 7.9
112.7(e)(9)(ii)	Flow and drain valve position	Section 7.1
112.7(e)(9)(iii)	Starter control for pumps locked or located at site whereby access is limited to authorized personnel	Section 7.1
112.7(e)(9)(iv)	Loading/Unloading connections and pipelines to be capped when not in service	Section 7.7 and Attachment G
112.7(e)(9)(v)	Facility lighting	Section 7.9
112.7(e)(10)(i)	Training to prevent discharge	Section 7.8
112.7(e)(10)(ii)	Person responsible for spill prevention	Section 3.2 and Section 7.8
112.7(e)(10)(iii)	Spill prevention training	Section 7.8
112.20 Appendix C	Certification of the Applicability of the Substantial Harm Criteria	Appendix 1
SPCC Annual Checklist	Checklist requiring annual review of the plan's accuracy	Attachment I
	Oil Storage Capacity Worksheet	Appendix 1
	PCB Addendum	Appendix 2
	Plot Plan	Section 6.0

### 3.1 SPCC CERTIFICATION

I have reviewed the Release Plan for GM Bedford. The facility has been examined and being familiar with the provisions of Title 40 - Protection of the Environment, Chapter I - Environmental Protection Agency, Subchapter D, - Water Programs, Part 112 - Oil Pollution Prevention, as first published in 38 FR 34165, December 11, 1973 and amended in 57 FR 52704, November 4, 1992, I certify that to the best of my knowledge that the SPCC portion of this plan has been prepared in accordance with good engineering practices.

Name: William Schoonmaker

Title: Regional Environmental Manager

Signature: Um Schoonmaker

Registration Number: 18452

State: IN

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William Schoonmaker

Title:

Regional Environmental Manager

Signature:

Date:

Registration Number: 18452

State: IN

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Name: William Schoonmaker

Title: Regional Environmental Manager

Signature: Www. Ichonmaker

Date: <u>3.7-99</u>

Registration Number: 18452

State: IN

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Name:

Bryan Ale: ander

Title:

Senior Pro ent Manager

Signature:

Date:

NOV 21, 1998

Registration Number: 35416

State: MI

## 3.2 MANAGEMENT CERTIFICATION

I have reviewed the Release Plan for GM Bedford. The plan is approved and supported by the management team of this facility. The plan will be implemented and followed as herein described. The facility personnel identified as emergency coordinator(s) have the authority to commit resources as may be required to protect public health and safety and/or the environment.

Name: John Thomas

Title: Plant Manager

Signature: 4

Date: 1-17-2001

#### EFRANCINE GERMENENCE CRUBIC (CENTRO) NO TOTAL CONTROL CONTROL

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Name:

John Thomas

Title:

Plant Manager

Signature:

Date:

GENERAL MOTORS CORPORATION 3162-08/01/17/2000/316208.DOC/SLA

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Name:

John Thomas

Title:

Plant Manager

Signature:

Date:

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Name:

John Thomas

Title:

Plant Manager

Signature:

Date:

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 4.0 SPILL RESPONSE PROCEDURES

#### 4.1 INITIAL DISCOVERY ACTIONS

GM Bedford has developed procedures to be followed in order to minimize the potential for an unintentional release of oil, hazardous substance or objectionable substance. In the event of a spill, procedures have been written for the notification of and response to spills.

#### Definition of Spill

Spill event, as defined by 40 CFR Part 110, means a discharge of oil into or upon the navigable waters of the United States or adjoining shorelines in harmful quantities.

Spill, as defined by Indiana Regulation IAC2-6.1, means any unexpected, unintended, abnormal, or unapproved dumping, leakage, drainage, seepage, discharge or other loss of petroleum, hazardous substances, extremely hazardous substances, or objectionable substances. The term does not include releases to impermeable surfaces when the substance does not migrate off the surface or penetrate the surface and enter the soil.

#### Spill Containment and Cleanup

The first action to be taken in the event of any kind of pollutant spill that could threaten human health or the environment is to initiate the in-plant emergency notification system by contacting plant security (see Internal/External Notification Tab at the beginning of this plan). Personnel on the in-plant spill response team can assess the spill and determine if outside assistance will be necessary. The main goal of the internal and external spill responders is to contain the spill until cleanup can occur. Incidental spills are to be addressed by departmental supervision.

In the event the spill cannot be contained within the confines of the plant boundaries, immediate action must be taken to procure all necessary materials and equipment to confine and cleanup the spill.

Notification of adjacent property owners must be carried out if the spill shows evidence of entering their property. The Emergency Coordinator or designated alternate will make the notification (refer to page 4-3).

#### 4.2 INITIAL RESPONSE ACTIONS

#### 4.2.1 In Plant Releases

Incidental in-plant spills are the responsibility of the operating department where found In-plant spills can be contained using sand, dirt, or oil-dry as dam material or absorbent depending on the material spilled. In extreme emergencies, oil can be contained with productive powdered materials, such as clays, cement, etc., although the use of these is not recommended for this purpose. However, if a spill is beyond the means of the operating department, notification to plant security will be made immediately.

Spills, which occur on paved surfaces within plant perimeters can be treated as incidental spills, if the material is known, and does not pose a threat to human health or the environment. However, if the spill occurs on dirt, near a sewer or waterway, plant security must be notified of the spill, regardless of the material. See Internal Notifications on the pink paper in the beginning of the plan.

#### 4.2.2 Releases External to Facility

Immediately notify plant security. Plant Security will initiate the Internal Notifications according to the flow chart at the beginning of this plan by calling Maintenance, the Emergency Coordinator, and Health and Safety. For further notifications refer to the flowchart in the beginning of the plan.

#### 4.2.3 Discovery of Releases by Non-GM personnel

An outside call regarding a spill can come from any outside source and may be received by anyone on the inside of the plant. The notification may not relate to the plant. It is important that the proper information be obtained from the caller, so the proper action can be initiated. When such a notification is received, the following information should be requested:

- Where is the spill?
- Can you identify the materials?
- What does it look like?
- When did you observe it?
- Will you identify yourself, (name and address) so that we can report on the results of your investigation?
- Can we contact you for further assistance if we cannot locate the spill?

The person taking spill information from outside the plant will follow the Internal Notification procedure on the pink paper in the beginning of the plan.

### 4.3 INTERNAL NOTIFICATIONS

Immediately upon discovery of a pollutant spill, personnel shall contact Plant Security at ext. 7333. Information to be supplied should include:

- Building or location
- Floor or column
- Type of emergency
- Extent and nature of injury
- Time and duration of spill
- Source of spill
- Identification and quantity of substance
- Extent of actual and potential environmental pollution
- Extent of property damage
- Remedial action taken

If reported by non-GM personnel, include information from the previous Section 4.2.3.

The information collected by Plant Security will be forwarded to a Maintenance Supervisor, the Emergency Coordinator, and Health and Safety, in that order. The appropriate Maintenance Supervisors are listed on the pink, Internal Notification Flowchart at the beginning of this plan. The Emergency Coordinator and Health and Safety contacts are as follows:

#### **EMERGENCY COORDINATOR**

	Plant	Pager*	Home
Kım Dobosenski Environmental Engineer	7404	9-278-2893*	(812) 332-5088**

#### **HEALTH & SAFETY CONTACT - ALTERNATE EMERGENCY COORDINATORS**

Eric Prenevau Health & Safety Director	7216	9-278-2130*	(812) 330-9149**
Eva Smith Training Coordinator	7261	9-278-2013*	9-279-3260

Maintenance supervisors indicated on the Internal Notification Flowchart can also act as alternate coordinators. Please reference the pink flowchart at the beginning of the plan.

<sup>\*</sup> The numerical message sent to a pager should be preceded by the "911" code to indicate an emergency situation.

<sup>\*\*</sup> Before each home number, outside the local calling area, dial 8-1-812 then the number.

### 4.4 MANPOWER ASSIGNMENTS

In the event of a spill or release, Plant Security will contact Maintenance, the Emergency Coordinator, and Health & Safety, in accordance with the pink, Internal Notification Flowchart at the beginning of this plan. One or more of these individuals will assess the spill from a distance and determine the extent of the spill. If the spill is an incidental release of an oil or a hazardous substances and if the substance can be absorbed, neutralized or otherwise controlled at the time of release, employees in the immediate area or maintenance personnel will clean up the spill. If the spill can not be handled by maintenance, outside contractors will be called in to respond to the spill. If reportable quantities of a substance, or if oil reaches a waterway, the Emergency Coordinator, or designate, will contact the appropriate agencies. Refer to the External Notification Flowchart and Section 4.7 for appropriate responses.

In the case of a fire, a fire brigade consisting of maintenance, security and supervisory personnel is present at the facility. A completely equipped medical department staffed 24 hours a day (except weekends) is available on-site.

#### 4.5 RESPONSIBILITIES

#### 1. Management Employees

Perform emergency first aid as required and by the Medical Department. Maintain liaison with outside medical facilities.

Maintain liaison with all staffs throughout the disaster. Assist in clearing nonessential personnel from the disaster area. Disseminate information to Corporate Staff as required by Corporate Procedures.

Control and direct the movement of personnel and stock, maintain order, assist fire department personnel. In addition, arrange to transport the injured to emergency medical facilities.

#### 2. Security Department Employees

Deploy security personnel as directed by the Security Chief and/or Plant Management as requirements dictate throughout the emergency.

Security Employees will assist in helping employees evacuate as directed by Plant Management.

#### 3. Fire Brigade

Fire Brigade personnel will assist in helping with Emergency Procedures under direction of Plant Management.

#### 4. Safety Personnel Responsibilities

Assist as directed by Plant Management.

#### 4.6 COMMAND CENTER

The Safety Conference Room will serve as the Emergency Command Center. In the event that this location is blocked due to the disaster or when evacuation becomes necessary, the Medical Conference Room will serve as the alternate command post.

# TENNETRONINE CONTROL CONTROLS TENNETRONINE CONTROL CO

The new rule definition of "spill" excludes releases to impermeable surfaces. Therefore, the reporting of spills on interior floors in production areas or on paved driveways and parking lots without drains may not be required, as long as the spill does not migrate off the surface or penetrate the surface and enter the soil.

Only spills of certain quantities, locations, and chemical types need to be reported. Different reporting thresholds apply if the spill is to water or soil and within the facility property boundary versus beyond its boundaries. Regardless of these criteria, the spill must be reported if it will damage waters of the state as to cause death, acute injury, or illness to humans or animals, as stated in the Indiana regulations.

An external notification reporting flow chart, included in the beginning of the plan, summarizes the external reporting that is applicable to the Bedford facility.

# 4.7.1 State Notifications (Environmental Department Use Only)

The following evaluations of a spill must be performed to determine if the spill is reportable in accordance with Indiana State regulation 327 IAC 2-6.1. A reportable quantity (RQ) table is included as Attachment A.

- 1. If spill is to surface water, the Environmental Department must report:
  - Spills of hazardous substances or extremely hazardous substances greater than 100 pounds or the RQ, whichever is less.
  - Spills of petroleum which cause a sheen.
  - Spills of objectionable substances.
- 2. If spill is to soil beyond the facility boundary, the Environmental Department must report:

- Spills of hazardous substances or extremely hazardous substances greater than 100 pounds or the RQ, whichever is less.
- Spills of petroleum greater than 55 gallons.
- Spills of objectionable substances.
- 3. If spill is to soil and within the facility boundary the Environmental Department must report:
  - Spills of hazardous substances or extremely hazardous substances greater than RQ.
  - Spills of petroleum greater than 1000 gallons.
  - Spills of objectionable substances that damage waters of the state or harm public health.
- 4. Any spill for which a spill response has not been done.

The following actions must be taken by the Environmental Department for reportable spills:

Call IDEM Emergency Response as soon as possible, but at least within 2 hours of the spill at 1-888-233-7745 (in state) or 317-233-7745 (out of state). Notifications will be performed by the Environmental Department or the designated alternates. This initial notification can be made by telephone, radio or in person.

The notification should contain the eight items of information identified below. Notification **SHOULD NOT** be needlessly delayed if all of the following information is not available and an RQ is potentially exceeded:

- The chemical name or identity of any substance involved in the release.
- Whether the substance is listed as a Section 302 extremely hazardous substance.
- Estimated quantity of the released substance.
- Time and duration of the release.
- Whether the release occurred into the air, water, and/or land.
- Known or anticipated chronic or acute health risks associated with the emergency and advise regarding medical attention for exposed individuals.
- Precautions, such as evacuation, taken to respond to the release.
- Name and telephone number of the Environmental Engineer, Kim Dobosenski (812) 279-7404.

Submit a written report if required by IDEM (refer to section 4.11). Use the form letter in Attachment B as an example. Submit letter to:

Department of Environmental Management Office of Environmental Response 2525 North Shadeland Ave. PO Box 6015 Indianapolis, IN 46206-6015

Exercise due diligence and document attempts to notify the nearest downstream water user within 10 miles for surface spills that cause damage or effect property owners, operators or occupants for soil spills beyond the property.

At this time, there are no current downstream water users within 10 miles of the Bedford facility.

# 4.7.2 Federal Notifications (Environmental Department Use Only)

The following notifications will be performed to meet federal requirements.

#### Hazardous Substances

A spill must be reported if it is a regulated substance which has been spilled/released in excess of certain Reportable Quantities (RQ). The notification requirements are as follows:

Any person in charge of the facility shall, as soon as he has knowledge of any release of a hazardous substance in a quantity greater than or equal to the RQ over a 24 hour period must notify the:

National Response Center 1-800-424-8802

• If the chemical is a mixture, the amounts of the various components must be compared to the RQ to determine if the spill is reportable.

#### Petroleum Products

If a spill of petroleum causes a sheen on the navigable waters of the United States, the National Response Center must be contacted.

The following information should be provided:

- The name and title of the person making the report.
- The name and estimated amount of the substance released into the environment.
- Where the release took place.
- To what media of the environment the release escaped.

■ Remedial actions taken to control or mitigate the release's effects.

If required, submit a written report to the National Response Center. Refer to Attachment B for an example of a form letter to the Response Center.

# 4.7.3 Miscellaneous Notifications (Environmental Department Use Only)

A spill that enters sanitary sewer lines may effect city sewage treatment facilities. Such a spill must be reported to the city at the Sewage Disposal Plant at (812) 275-4901.

Additional external spill notification will include the following:

Ms. Midge Winkler
Operations Support Environmental Services
MC 482-302-205
485 W. Milwaukee
Detroit, MI 48202
Office Phone: (313) 556-1931

GM Network Phone: 8-346-1931

Ms. Laura L. Fitzpatrick
Environmental and Energy Practice Area
Legal Staff
MC 482-C24-D24
300 Renaissance Center
P.O. Box 300
Detroit, MI 48265-3000
Office Phone (313) 665-4881
GM Network Phone: 8-225-4881

#### **Exclusions**

The reporting requirements of the rule do not apply to the following:

- Discharges or exceedances that are under the jurisdiction of an applicable permit when the substance discharged is covered by the permit and death or acute injury or illness to animals or humans does not occur.
- Lawful application of materials including, but not limited to, fertilizers and pesticides on or to land or water, dust suppression materials or the application of petroleum necessary for road construction.
- Spills of less than 1 pound or 1 pint.
- Spills of integral operating fluids in the use of motor vehicles or other equipment, the total volume of which is less than 55 gallons and which do not damage the waters of the state.

■ A release of a substance integral to a spill response activity that has been approved and authorized by a state or federal on-scene coordinator.

In the event of a death or significant accident, personnel will follow the Safe Job Operating Procedures.

#### 43 CECAN-UP CONTRACTORS TO THE SECOND STATE OF THE SECOND STATE OF

Arrangements have been made with the following contractors to assist with emergency response.

McIntyre Brothers Construction 1020 Seventh Street Bedford, IN 47421 (812) 275-5956

Spill Recovery of Indiana 10635 US Highway 136 Indianapolis, IN 46234 (317) 291-3972

Koester Environmental Services Inc. 14649 Highway 41 North Evansville, IN 47711 (812) 867-0100

Written documentation of the arrangements that the Bedford plant has with clean-up contractors are on file with the Environmental Department.

#### 4.9 SPILL RESPONSE EQUIPMENT

The following spill control and cleanup equipment is available at the plant:

A 300 gallon fluid collection system (Scrubber Vac) and tractor with a backhoe are available through the Maintenance Department. Oil absorption material is available from the old A-Crib area which is located on the southeast section of the Die Cast Building. Spill kits are available at the Fire Brigade Area, the Bulk Storage Area, Wastewater Treatment and the Paint Booth. Additional booms and absorbent pillows are also available at the wastewater treatment plant.

#### The following is a list of items in the spill kits:

(Paint Booth, Wastewater Treatment Plant, and Bulk Storage Spill Kits)

- 12-3" X 46" HAZ-MAT Socks
- 6-3" X 10' HAZ-MAT Socks
- 2 10 Dikes
- 7-16" X 17" Pillows
- **■** 75-Mat Pads
- 10 Temporary Disposal Bags & Ties

#### (Fire Brigade Area Large Response Cart)

- 14-3" X 46" HAZ-MAT Socks
- 3-3" X 10' HAZ-MAT Socks
- $\blacksquare$  2 10' Dikes
- 7-16" X 17" Pillows
- 2-5 lb. Bags of Pulp
- 100-Mat double-weight Pads
- 15 Temporary Disposal Bags & Ties

Note: Shovels are also available in the area near the Spill Kit.

#### The following is a list of items on the fire wagon and equipment cart:

- Shovel
- 1 Axes
- City adapter
- Gloves 1 dozen
- 100 ft. rope
- 2 helmets

- Megaphone
- 2 crow bars

# The following is a list of the supplies for Blood Borne Pathogens exposure and the locations of the cabinets:

#### Locations of cabinets

- #1 Die Cast North in the aisle
- #2 Pistons by heat treat oven by supervisors desk.
- #3 Tool Room hallway by supervisor desk.
- #4 Die Cast South behind scale.
- #5 Maintenance office wall outside.
- #6 Melting going west wall of melting office.

#### **Supplies**

- 5 Personal Protective Kits hat contain Head covers, masks, gowns, shoe covers, red biohazard bags, paper towels, antiseptic wipes and rubber gloves.
- 5 Small spill kits that contain Red biohazard bags, rubber gloves, antiseptic wipes.
- 5 large spill kits 2 Red biohazard bags, paper towels, antiseptic wipes, many rubber gloves.
- CPR biohazard bags, antiseptic wipes, one-way breathing mask, sterile 4X4's and rubber gloves.

#### 4.10 SPILL DOCUMENTATION

Following the release or spill at the facility, the Environmental Department will ensure the incident and the response actions taken to address it are documented. Attachment C contains the Internal and External Spill / Release Report forms that may be used in the event of a spill / release.

#### 4.11 WRITTENNOTIFICATION REQUIREMENTS

#### State Written Notification Requirements

For spills of hazardous materials or petroleum products that are reported under Section 4.7 - External Notifications, the IDEM may require a written report. If a report is required, the format in Attachment B, shall be followed. The report will be submitted to:

Department of Environmental Management Office of Environmental Response 2525 North Shadeland Ave. PO Box 6015 Indianapolis, IN 46206-6015

The report will be prepared, signed and submitted by the Environmental Department. Prior to submittal, GM Worldwide Facilities Environmental Staff and Legal Department shall review the report.

#### Federal Written Notification Requirements

For spills of petroleum products that are greater than 1,000 gallons or if the second reportable spill within 12 months, a report must be submitted to US EPA Region V within 60 days of the release (see Attachment B for an example). Also, for spills of RCRA hazardous waste, a report will be required to be submitted within 15 days of the release.

US EPA Region V Regional Administrator 77 West Jackson Blvd. Chicago, IL 60604

The report will be prepared, signed and submitted by the Environmental Department. Prior to submittal, GM Worldwide Facilities Environmental Staff and Legal Department shall review the report within 10 days of the release.

Any spill that violates the plant NPDES Permit Limitations require that a detailed written report be submitted to the EPA Regional Administrator and the State of Indiana within five (5) days after becoming aware of such condition. See plant NPDES permit for reporting requirements. GM Legal Department must approve all written reports before submittal.

#### 4.12 SPILL CLEANUP AND TERMINATION OF ACTIVITIES.

The Emergency Coordinator or Alternate Coordinator will coordinate the necessary resources to ensure the cleanup of the affected area.

The Environmental Department or designee will ensure that the released material, cleanup material and personal protective equipment will be disposed of in a GM approved disposal facility. Storage and disposal of materials generated from a spill response shall be performed in accordance with GM procedures 5533-18 (Storage and Disposal of Waste Fluids and Oils) and 5533-28 (Disposal of Solid Waste). The most current revision of these procedures may be obtained from the Quality Department or the shared "S" drive (S:\QS9000sn\), which is available on most computers in the facility. Attachment D also contains copies of these procedures, but before using them the user must verify that they are current by referencing the Master List of Plant Procedures.

#### CEPUREIC RELATIONS - 1

In the event that public relations are affected by a release, facility personnel will follow the guidelines included in the Bedford Disaster Plan. The guidelines are included as Attachment E of this manual.

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 5.0 SITE DESCRIPTION

### 5.1 DESCRIPTION OF OPERATIONS

The GM Bedford plant is a manufacturer of automotive aluminum castings including transmission cases and pistons. The processes to produce these products include die casting and permanent molding.

The plant is located outside of any flood area. This is based on information obtained from the U.S. Geological Survey Maps for the Bedford area and from the U.S. Department of Agriculture, Soil Conservation Office. The U.S. G.S. maps show that the plant is located at an evaluation of 720 feet above sea level, which is well above the 100 year flood level for the White River and Pleasant Run Creek area flood levels of 510 feet.

#### 5.2 LOCATION MAP

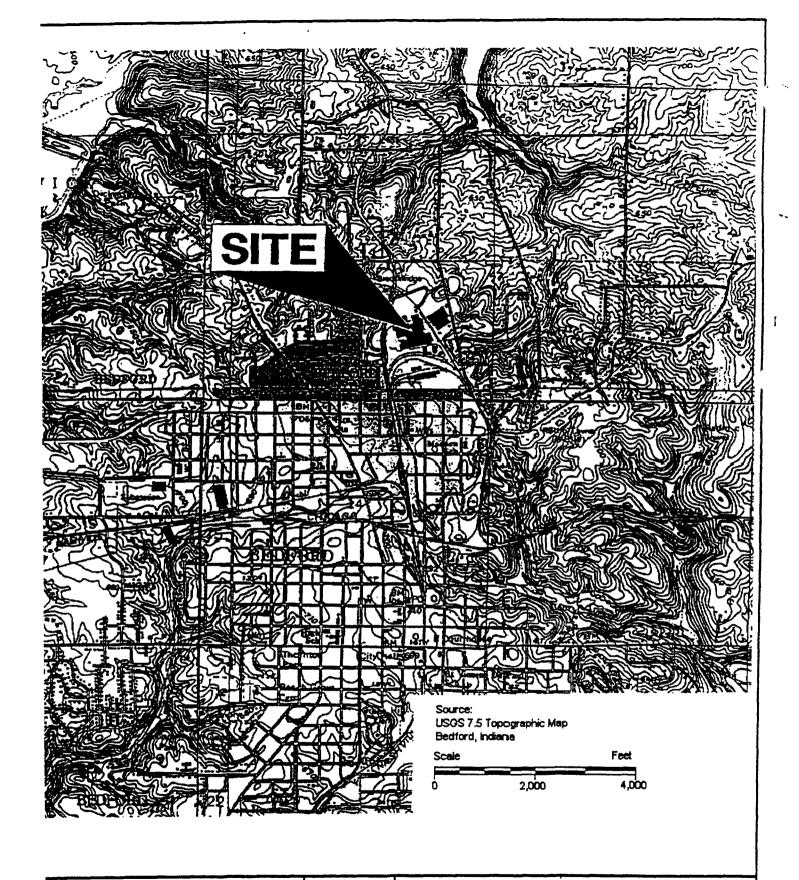
A location map is included on the next page.

#### 5.3 MAJOR STREAMS/SEWERS

The facility storm water is collected and contained within the on-site storm water retention lagoon. The water is used for fire protection and as makeup process water.

Emergency overflow from the facility storm water retention lagoon is discharged via NPDES-003 to an unnamed ditch which flows into the Bailey Branch of Pleasant Run Creek located east of the facility.

Facility sanitary wastewater is discharged to the City of Bedford sanitary sewer system. Facility process wastewater and stormwater is collected and treated in the on-site wastewater treatment plant. Approximately 85% of the treated effluent is reused as process water. The remaining 15% is discharged through NPDES-002 Outfall to an unnamed ditch which flows into the Bailey Branch of Pleasant Run Creek.



4	CHE	STER NEERS	PROJECT NO.: 3162-08 FIGURE NO.:	General Motors Corporation  Bedford Plant
N BY:	CHICD BY:	SCALE As Shown	7	Bedford, Indiana
PR BY:	DATE 07/21/98	FILE NAME	Figure 1	Facility Location Map

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 6.0 FACILITY MAP

A copy of a Facility Map showing runoff direction, storm and sanitary sewers follows this page. Also, an insert of the Bulk Product/Waste Storage Area is included. The numbering system on the drawings refers to the Material Storage Table in Section 9.0. A condensed copy of the table is included in this section.

### Legend 1 - Material Storage

#### Oils & Fuels

Tank Number	Material Description	General Location
A-1	Waste Hydraulic Fluid	Outside of Secondary Building
A-2	Gasoline	Piston Loading Area
A-3	Diesel Fuel	Piston Loading Area
A-4	Water Glycol	Old A-Crib Area
A-5	PCB	Drum Storage Area
A-6	Gulf Cut Oil	Receiving
A-7	Various Oils	Oil House
A-8	Lube Oil	Tool Room
A-9	Waste/Used Oil	Tool Room
A-10	Way Lubricant	Recieving
A-11	Oil	Die Cast South
A-12	Oil	Die Cast South
A-13	Oil Tank	Storm Lagoon
PU-14	Skim Oil Tank	Outside of Secondary Building

#### Hazardous Waste

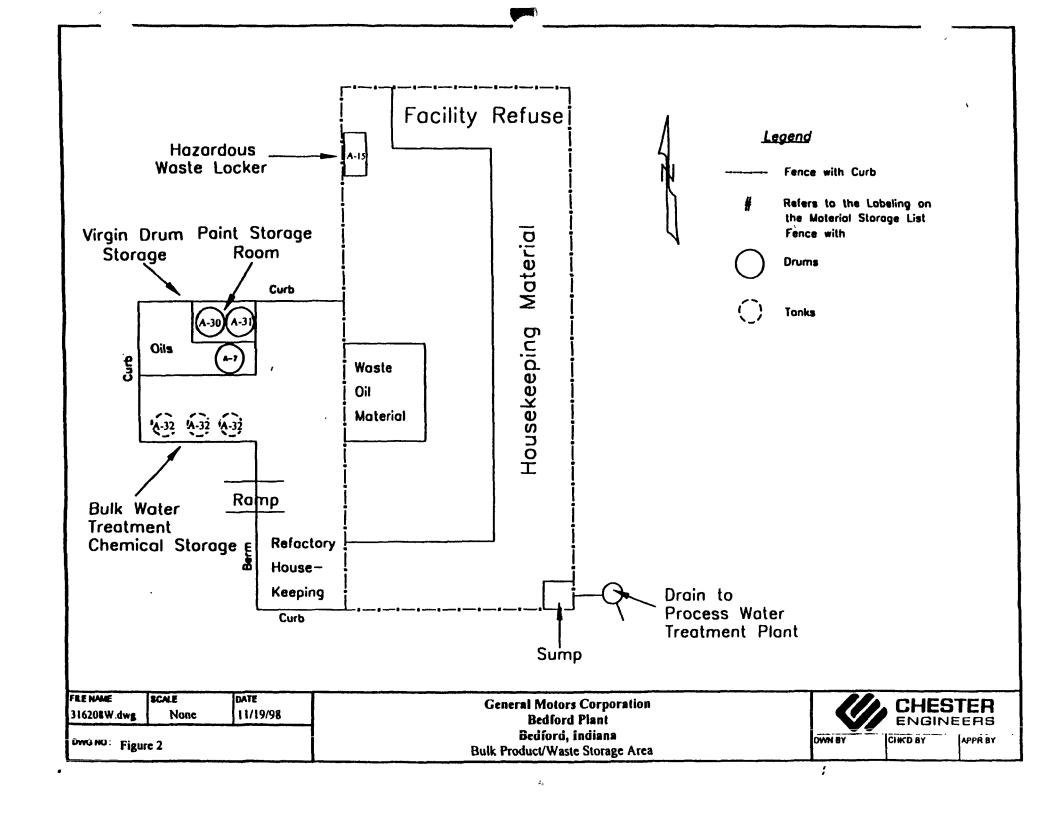
Tank Number	Material Description	General Location
A-15	Waste Paint Solvent	Drum Storage Area

#### Chemicals

Tank Number	Material Description	General Location
A-16	Urea	Secondary Building
A-17	Polymer Mix Tank	Secondary Building
A-18	Polymer Neat Tank	Secondary Building
A-19	HCI	Outside Filter Building
A-20	Sodium Hypochlorite	Filter Building
A-21	Sodium Chlorite	Filter Building
A-22	Corrosion Inhibitor	Filter Building
A-23	Ferric Sulfate	Sludge Building
A-24	Primary/Secondary Sludge	Sludge Building
A-25	Holding Sludge Tank	Sludge Building
A-26	Contact Tank	Sludge Building
A-27	Filterate Storage Tank	Sludge Building
A-28	Lime Slurry Tank	Sludge Building
A-29	Alum	Aeration Building
A-30	Paint Thinner	Drum Storage Area
A-31	Lacquer	Drum Storage Area
A-32	Corrosion Inhibitor	Drum Storage Area
A-33	Sodium Hypochlorite	Powerhouse
A-34	Water Treatment Chemicals	Powerhouse
A-35	Anti Foam	South Die Cast
A-36	Sodium Hypochlorite	South Die Cast

A- Aboveground

PU - Partially Underground



# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 7.0 POLLUTION PREVENTION

#### 7.1 OILS, HAZARDOUS MATERIAL AND HAZARDOUS WASTE STORAGE

Prevention and countermeasures are required for the handling and storage of:

- 1. Oils, fuels, and other hydrocarbons, and
- 2. The accumulation, storage, and shipping of hazardous wastes.

The following countermeasures are discussed to fulfill the requirements of 40 CFR 112.7 (e).

- Each aboveground petroleum tank is of steel construction and is compatible with the oils they contain and conditions of storage.
- All the aboveground tanks along with containment capacities are discussed below by tank location. Also the information is summarized in Table 1 Section 9.0.
- None of the dikes at GM Bedford use valves for drainage. The dikes are pumped out or flow to the WWTP as described below.
- None of the petroleum tanks have internal heating coils.
- No high level alarms are employed.
- The tanks are not equipped with level gauges unless otherwise stated below.
- There are no starter control locks on the petroleum tanks.

Following is a detailed description of the materials handled and the countermeasures used at GM Bedford. The materials are organized by location and are also located on the facility map.

#### Secondary Building

Fifty pound dry bags of urea are stored in the Secondary Building. The urea is mixed in a 300 gallon tank and the building acts as containment. There are also two polymer tanks. One tank is a 300 gallon mix tank and the other is 1,200 gallon neat tank. Both tanks are

diked with 150% containment. Outside, to the north of the building is a 1,500 gallon waste hydraulic fluid tank. The tank is set within a masonry diked area which holds greater than 150% of the tank. No sump exists in the dike.

#### Filter Building

The filter building holds three 1,500 gallon PVC tanks. Two of the tanks, Drew 6110 Sodium Hypochlorite and Drew CHLOR 4107 Sodium Chlorite, are within the same dike with 150% of the largest tank contained. The third tank holds corrosion inhibitor and is 150% contained. If necessary, the dike can be drained to the process sewer. All the fill pipes are within the containment and level indicators are on the tanks. An eye wash station is located across from the tanks. Outside on the south end of the building is a 1,500 gallon HCl tank. The area has a PVC dike which holds 150% of the tank. The containment area is covered. Just outside of the dike is a sewer that drains to the wastewater treatment plant.

#### Sludge Building and Surrounding Area

Two 1 million gallon tanks holding primary sludge and secondary sludge are located outside of the sludge building. An earthen dike is used to contain the tanks and there are no level indicators on the tanks. A 5,800 gallon PVC Ferric Sulfate tank is located inside the sludge building. This tank is approximately 115% contained. The fill pipes for the tank are located outside. The dike has a blind sump and is pumped out manually. A sludge tank with capacity of 10,000 gallons, a contact tank with capacity of approximately 5,000 gallons and a filtrate storage tank with capacity of approximately 2,500 gallons are also located within the sludge building. The building itself drains to the surge basin and then to the aeration basin.

#### Aeration Building

Two alum tanks are located inside of the aeration building. Each tank is 2,000 gallons in size and constructed of PVC. The tanks are diked with greater than 150% containment.

#### Piston Loading Area

Located outside on the pavement are two enclosed (tank within a tank) fuel tanks. One is a 1,000 gallon gasoline tank. The other is a 1,000 gallon diesel fuel tank. A level stick is used to determine the volume of fuel. Leaks from the gasoline or diesel hose are repaired and cleaned up immediately. If a spill occurs during unloading, the fuel will flow to a catch basin and be contained in the storm water retention lagoon.

#### Old A-Crib Area

Two 5,000 gallon steel water glycol tanks are stored in the old A-Crib area. The tanks are suspended in the air without containment. If there is a leak the water glycol will flow out the door and will drain through the storm sewer to the lift station where it can be contained.

#### Drum Storage

There is an oil house located within the drum storage area capable of handling forty drums. Drums of various types of oil are stored in the oil house under cover. Part of the oil house is divided into a storage area for paint products. Fifty-five gallon drums of paint thinner and lacquer are also stored within this area.

Three 15,000 gallon tanks are located on the south side of the oil house. These tanks are located outside and contain Drewsperse 737, Dresperse 2625A, and Drewgard 120 all corrosion inhibitors. The tanks are foam insulated.

The entire drum storage area is contained along with the waste management area. A sump located in the waste management area drains to the WWTP.

#### Waste Management Area

The 90 day accumulation area is located within the waste management area. The only hazardous wastes on-site (waste paint solvents) are stored in the accumulation area. The solvents are stored in a metal, enclosed, fire resistant cabinet.

The whole waste management area is contained along with the drum storage. There is a sump, on the north east corner of the containment area that drains to the WWTP.

A fence surrounds the waste management area and the Resource Manager has an office stationed within the area. A phone is available along with a ABC fire extinguisher, spill kit and non-spark shovel.

#### Tool Room Oil Area

Approximately twelve totes containing oil lube and twenty drums containing waste/used oil are located in the tool room. The building acts as containment. An ABC fire extinguisher is located on a column near the waste/used oil.

Maintenance	Oil	Areas
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There are two central locations where Maintenance personnel store oil in the facility. The locations are in the Die Cast and Piston Buildings. Each location has a 350 gallon tote and approximately 12 fifty-five gallon drums.

#### Receiving Area

Approximately, four Gulf Cut lubricants totes (~350 gallons/tote) and two way lubricants totes (~360 gallons/tote) are located in the receiving area. The Gulf Cut totes are moved to the process area when needed. Other miscellaneous chemicals may also be stored in receiving. The totes are stored along the wall out of the way of traffic. If a spill occurs and travels out of the building the oil will end up in the storm lagoon. In case of a fire, an ABC fire extinguisher is available in the receiving area.

#### Powerhouse Chemical Storage

Bleach and other boiler feed chemicals are stored within the powerhouse.

#### South Die Cast

Dispersant and sodium hypochlorite are stored within the South Die Cast area. Oil may also be stored at this site.

#### Storm Lagoon

One oil tank, with a capacity of approximately 290 gallons, is located in the storm water pump building next to the storm lagoon. The tank is diked with approximately 120% containment.

#### 7.2 UNDERGROUND AND PARTIALLY BURIED TANKS

The Bedford Facility has no underground storage tanks. At the wastewater treatment plant, a skimmed oil in process transfer tank is partially below grade.

### 7.3 OVERHEAD PIPING

No petroleum products are pumped overhead, therefore valve and pipe inspections are not required.

### 7.4 OUT OF SERVICE INSTALLATIONS

The facility has an extensive network of buried piping at the wastewater treatment plant. There are no provisions for corrosion protection of this piping.

There are no out of service installations at the facility that have not already been removed.

#### 7.5 OIL PRODUCTION FACILITY REQUIREMENTS .

This facility is not an oil production facility, therefore, this requirement is not addressed.

## 7.6 INSPECTIONS TO THE PROPERTY OF THE PROPERT

A GM Bedford inspection of the waste management area is conducted weekly along with the waste paint accumulation area and the 90 day accumulation area. If any problems are found they must be explained in the records and followed with a plan for corrective action. The inspection forms are filed with the Resource Manager and kept for a minimum of five years.

The petroleum tanks are checked weekly for tank damage or leakage. The inspection forms are filed by Security, for the tank at the storm lagoon, and by the Resource Manager, for the other two petroleum tanks located between the Piston & Die Cast Buildings.

The influent to the wastewater treatment plant is observed daily by wastewater treatment personnel. In addition to the visual observations of the influent, personnel perform analytical tests on the influent and effluent to identify potential problems with the manufacturing and/or WWTP operations. Other analytical tests may be sent to an outside lab.

Wastewater treatment personnel also inspect the influent points to the storm water retention lagoon, its effluent point and the outfall once a week. Any unusual observations or potential problems can be noted on the inspection sheets. Inspection forms are kept in the office of the wastewater treatment plant operator. Copies of inspections are kept on file for a minimum of five years.

Refer to Attachment F for a sample of GM Bedford's inspection forms.

#### 7.7 BULK LOADING/UNLOADING PROCEDURES

GM Bedford incorporates the GM Truck Loading/Unloading Procedures along with following the minimum requirements for DOT. Facility procedures for truck loading and unloading have been included as Attachment G.

#### 7.8 TRAINING

The personnel training program for this plant is incorporated in the overall plant program for the training of all employees to perform their assignments in a safe manner and in accordance with all plant policies, regulations and procedures.

The plant departments are responsible for preparing the job procedures and insuring that their employees are trained properly to perform their job assignments. The Environmental Department gives guidance and directions on Hazardous Wastes Management. The Environmental Department staff has received training on the handling of hazardous materials.

The General Motors Corporate Legal Staff issues information bulletins, concerning all environmental areas including Hazardous Waste Management, to plants in the Corporation. This information is reviewed by the Environmental Department and if applicable reviewed with personnel that handle hazardous waste. New requirements are incorporated into job procedures, if necessary.

The specific areas that are covered in the training program include:

#### SPCC Training

Facility personnel that work in the area of oil storage have been instructed by management in the operation and maintenance of oil pollution prevention equipment and pollution control laws and regulations.

#### Hazardous Materials Training

All employees involved in handling hazardous waste have received training in the proper handling, storage, labeling, disposal, and emergency spill response of hazardous materials/wastes. The emergency and alternate coordinators have obtained HAZWOPER Operations Level Training. The emergency and alternate coordinators receive refresher training once a year.

#### Fire Brigade

Fire Brigade training consists of classroom and hands-on training in fighting class A, B, C and D fires. Employees that may participate in this training include: maintenance, security, and supervisory personnel. Classroom training consists of slides, films, and discussion. In the field training, members are exposed to various types of fires to extinguish.

#### 7.9.SECURITY

Security guards are present at the facility 24 hours a day. The guards control all entry and exiting of persons to the plant. The entire GM Powertrain Bedford facility is fenced with guarded access gates. The facility is well lit on the exterior as well as the interior of the plant. A phone is available in the hazardous waste accumulation area as a means of direct communication.

In addition to the above, the waste management area has additional fencing and gates which are monitored by direct line of sight from the guard house.

Signs are also posted on the fence in the drum storage area which state, "Danger - Unauthorized Personnel Keep Out" and "No Smoking - Flammable Liquids". Another sign is posted in the hazardous waste designated storage area which states that hazardous wastes are stored in that area.

The Security gatehouse is located approximately 300 feet from the hazardous waste storage area. The plant guards are on duty at all times in this gatehouse and have radio and telephone communication both in and out of the plant.

If an emergency situation occurs, the evacuation plan will be followed. R:fer to Attachment H for a copy of the evacuation plan.

## 7.10 PLANT WARNING SYSTEM

Warnings will be provided utilizing a plant wide annunciation system. If not working, runners will be sent throughout the facilities. Below is a brief explanation of the warning system. Refer to the Disaster Preparedness Plan for more details.

#### Take Shelter Alarm

A slow wail will sound through the plant to signal a take shelter alarm.

#### Evacuation Signal

The evacuation signal is a 1 to 6 horn blast. The number of horn blasts defines the area of the plant that needs to be evacuated. Three (3) horn blasts signals a total plant evacuation, while the other sequences of horn blasts signal the evacuation of a specific department or area (e.g. two (2) horn blasts signals the evacuation of Die Cast South and Die Cast West).

#### All Clear

The all clear notification will be given by first ceasing the original signal followed by a steady horn. The all clear will be used when conditions have returned to normal or the hazardous event no longer threatens plant personnel or facilities.

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 8.0 PLAN AMENDMENT AND SUBMISSION REQUIREMENTS

This section includes information on the procedures the facility has available for modifying this plan. Detail has been provided for updates under the requirements of both the SPCC and RCRA regulations. In addition to the amendment requirements, a history of amendments has been provided.

## 8.1 SPCCAMENDMENTS

In accordance with 40 CFR, Part 112.5, this Plan shall be updated/amended under the following circumstances:

- Whenever there is a change in facility design, construction, operation, or maintenance which materially affects the facility's potential for the discharge of oil into or upon the navigable waters of the United States or adjoining shorelines:
- If the plan fails in an emergency, the list of emergency equipment changes or the regulations are revised; and
- At least once every three years from the date the facility becomes subject to SPCC requirements if more effective field-proven spill prevention and control technology which will significantly reduce the likelihood of a spill event from the facility is available.

It is the responsibility of the Environmental Department to complete the yearly checklist, located in Attachment I to determine if it is necessary to update the Release Plan. Updates, of other than names, phone numbers and etc, which apply to the SPCC requirements discussed above must be certified by a Professional Engineer.

Minor changes or additions will not require the book to be resubmitted and approved, but they will require that portion of the book to be updated and replaced.

#### 8.2 RCRA AMENDMENTS

In accordance with 40 CFR, Part 265.54, this Plan shall be updated/amended under the following circumstances:

- Whenever there is a change in facility design, construction, operation, or maintenance which materially increases the potential for fires, explosions, or releases of hazardous waste constituents, or changes the response necessary in an emergency; or
- Whenever the plan fails in an emergency; and
- Whenever the list of Emergency Coordinators or emergency equipment changes.

It is the responsibility of GM to periodically review the facility operations to determine if it is necessary to update the Plan.

Minor changes or additions will not require the book to be resubmitted and approved, but they will require that portion of the book to be updated and replaced.

Specific situations at the facility that would cause the Plan to require updating include:

- Redesign or alteration of the tank farms at the facility, including installation, replacement, or removal of active tanks;
- Redesign or alteration of hazardous waste storage areas;
- A change in the Emergency Coordinator list:
- A significant alteration or relocation of the emergency equipment maintained at the facility; and
- A significant change in the hazardous materials used at the facility.

# 8.3 AMENDMENT HISTORY

Date	Revised By	Cause for Revision
3-7-99	Kim Dobosenski	Change in the Internal / External Notification
		Flowchart (new safety
		director) and additional
		containment was added to the
		oil tank at the storm lagoon.
1/18/00	Kim Dobosenski	Change to Internal/External
		Notification Flowchart and
		updated emergency
		equipment listing.
1/15/01	Kim Dobosenski	Change to Internal/External
		Notification Flowcharts and
		updated emergency
		equipment listing.

#### GM POWERTRAIN BEDFORD PLANT

\* INDICATES REVISION

REVISER Kim Dobosenski

#### **EMERGENCY RESPONSE**

\*Emergency Preparedness & Response
Plan Reviews

FORM NO. 5523-10(B)

**DATE ISSUED: 9/24/98** 

**REVISION #1** 

**REVISION DATE: 12/15/99** 

En	viron	mental	Audit	Repor	t: Pri	vilege	d Inform	ation

PAGE 1 OF 1

*Complete This Section For Release Plan Reviews:
1. Review Performed By: Kimberly Dobosenski
Date of Review: 12/27/00 Date of Last Review: 12/30/99
2. Section(s) of the Release Plan requiring revisions:  Thernal / External Notification Flourcharts Section 1.2 Section 8.0 Attachment E Attachment E Section 3 c Section 9.0 Attachment E Attachment M Section 4.0 Section 12.0 Attachment B Section 6.0 Attachment D Attachment B Appendix 2 Section 7.0 Attachment D Attachment H  3. Date revisions were completed for each section:  1/18/01 - Tevisions to all Dechme were completed.
*Complete This Section For Disaster Preparedness Plan Reviews:
1. Review Performed By: EZIC TZENEVAL'
Date of Review: June Zlo Zoou Date of Last Review: February 29 Zoue
2. Section(s) of the Disaster Preparedness Plan requiring revisions:
THE CAPT BEDGERS - DISASTER TREPAREDRIESS PLAN WAS APPROVED
AND ISSUED IN JUNE OF ZOCO. ALL SECTIONS WERE REVISED TO REFLECT THE GM CARPORATE SECURITY ! FIRE TEMPLATE.
3. Date revisions were completed for each section:
REVISIONS TO THE DISASTER TREPAREDNESS TIME WITE
Confletes in June of 2000
Print Name: Kimberly Dobeseinski (Environmental Management System Representative)
Signature: Kundenly Dobovindue Date: 1/16/01

#### GM POWERTRAIN BEDFORD PLANT

\* INDICATES REVISION

REVISER Kim Dobosenski

#### **EMERGENCY RESPONSE**

#### \*Emergency Preparedness & Response Plan Reviews

FORM NO. 5523-10(B)

DATE ISSUED: 9/24/98

**REVISION #1** 

Date: 1-19-00

**REVISION DATE: 12/15/99** 

Environmental Audit Report: Privileged Information PAGE 1 OF 1 \*Complete This Section For Release Plan Reviews: 1. Review Performed By: Kimberly Dibisersk. Date of Review: 12/36/99 Date of Last Review: 3/7/99 2. Section(s) of the Release Plan requiring revisions: Insernal / Externil Notifications Section 3.c Section 6.5 Attachment F Szenony.c Siztion 9.0 Attachment G Appendis 3 Section 10-0 Scotion 6.0 Section 7.0 Attachment D 3. Date revisions were completed for each section: 1/7/00- For Internew one Externed Mathecanons Villa ion Sections 3.0 m 1/12/a . For >2etrons 4.0 - Attachmen+6 1/19/00 - For Appendix 3 \*Complete This Section For Disaster Preparedness Plan Reviews: 1. Review Performed By: MIKE Sonza EDIC TEENEVAL! LEVI Date of Review: \_\_\_\_\_\_\_ Date of Last Review: \_\_\_\_\_\_ 1998 2. Section(s) of the Disaster Preparedness Plan requiring revisions: AL Solvions of THE PLAN PECCLEUS REVISIONS TO HEET NEW CARPERATE SIMBARUS. 3. Date revisions were completed for each section: toward 14, 2000 Print Name: <u>Um Schonmaker</u> (Environmental Management System Representative)

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 9.0 LISTING OF SIGNIFICANT MATERIAL STORAGE AREAS

9.I LOCATION NOT AND THE SECOND SECOND SECOND

Location of significant material storage areas are shown on the facility map included in Section 6.

9.2 LISTING OF MATERIAL STORAGE LOCATIONS

A listing of material storage areas has been included in this section.

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN TABLE 1 MATERIAL STORAGE

#### Oils & Fuels

Container Number	Material Description	General Location	No. Containers	Construction Material	Capacity (Gals)	Contained Yes/No	Containment Capacity (%)
A-1	Waste Hydraulic Fluid	Outside of Secondary Bldg	1	Steel	1,500	Y	150%
A-2	Gasoline	Piston Loading Area	1	Steel	1,000	Y	Self Contained
A-3	Diesel Fuel	Piston Loading Area	1	Steel	1,000	Y	Self Contained
A-4	Water Glycol	Old A-Crib Area	2	Steel	5,000 ,	Y	Bldg is Containment
A-5	PCB	Drum Storage Area	2	Steel	55 Gal Drums	Y	Self Contained
A-6	Gulf Cut Oil	Receiving	3	Steel	350 Gal Totes	Y	Bldg is Containment
A-7	Various Oils	Oil House	40	Steel	55 Gal Drums	Y	Contained and Drains to WWTP
A-8	Lube Oil	Tool Room	12	Vendor Supplied	Totes	Y	Bldg is Containment
A-9	Waste/Used Oil	Tool Room	16-20	Steel	55 Gal Drums	Y	Bldg is Containment
A-10	Way Lubricant	Receiving	ì	Vendor Supplied	350	Y	Bldg is Containment

A- Aboveground PU- Partially Underground

#### Oils & Fuels Cont.

Container Number	Material Description	General Location	No. Containers	Construction Material	Capacity (Gals)	Contained Yes/No	Containment Capacity (%)
A-II	Oil	Die Cast South	4	Steel	Totes	Y	Bldg is
							Containment
A-12	Oil	Die Cast South	4	Steel	55 Gal	Y	Bldg is
					Drums		Containment
A-13	Oil	Storm Lagoon	1	Steel	290	Y	120%
PU-14	Skim Oil Tank	Outside of Secondary	1	Steel	2,000	N	Drains to
		Bldg	_				Storm Lagoon

#### Hazardous Waste

Container	Material	General Location	No.	Construction	Capacity	Contained	Containment Capacity
Number	Description		Containers	Material	(Gals)	Yes/No	(%)
A-15	Waste Paint	Drum Storage Area	2	Steel	55 Gal	Y	Self Contained Cabinet
	Solvent				Drums		Located in Diked Area

#### Chemicals

Container	Material	General Location	No.	Construction	Capacity	Contained	Containment Capacity
Number	Description		Containers	Material	(Gals)	Yes/No	(%)
A-16	Urea	Secondary Bldg.	ì	Fiberglass	300	Y	Bldg is Containment
A-17	Polymer Mix Tank	Secondary Bldg.	1	PVC	300	Y	150%
A-18	Polymer Neat Tank	Secondary Bldg.	1	PVC	1,200	Y	150%
A-19	HCI	Outside Filter Bldg.	1	PVC	1,500	Y	>150%

A- Aboveground PU- Partially Underground

### Chemicals Cont.

Container Number	Material Description	General Location	No. Containers	Construction Material	Capacity (Gals)	Contained Yes/No	Containment Capacity (%)
A-20	Sodium Hypochlorite	Filter Bldg.	i	PVC	1,500	Y	>150 %
A-21	Sodium Chlorite	Filter Bldg.	1	PVC	1,500	Y .	150%
A-22	Corrosion Inhibitor	Filter Bldg.	1	PVC	1,500	Y	150%
A-23	Ferric Sulfate	Sludge Bldg.	1	PVC	5,800	Y	115% and Bldg drains to Surge Basin
A-24	Primary/Secondary Sludge	Sludge Bldg.	2	Steel	1,000,000	Y	Contained by an Earthen Dike
A-25	Holding Sludge Tank	Sludge Bldg.	1	Steel	10,000	Y	Bldg. Drains to Surge Basin
A-26	Contact Tank	Sludge Bldg.	1	Steel	~5,000	Y	Bldg. Drains to Surge Basin
A-27	Filterate Storage Tank	Sludge Bldg.	1	Steel	~2,500	Y	Bldg. Drains to Surge Basin
A-28	Lime Slurry Tank	Sludge Bldg.	ı	Steel	1,000	Y	Bldg. Drains to Surge Basin
A-29	Alum	Aeration Bldg.	2	PVC	2,000	Y	>150 %
A-30	Paint Thinner	Drum Storage Area	3	Steel	55 Gal Drums	Y	Contained and Drains to WWTP
A-31	Lacquer	Drum Storage Area	3	Steel	55 Gal Drums	Y	Contained and Drains to WWTP
A-32	Corrosion Inhibitor	Drum Storage Area	3	PVC	1,500	Y	Contained and Drains to WWTP
A-33	Sodium Hypochlorite	Powerhouse	2	PVC	350	Y	Bldg is Containment
A-34	Water Treatment Chemicals	Powerhouse	2	PVC	350	Y	Bldg is Containment
A-35	Anti Foam	South Die Cast	1	PVC	350	Y	Bldg is Containment
A-36	Sodium Hypochlorite	South Die Cast	İ	PVC	350	Y	Bldg is Containment

A- Aboveground PU- Partially Underground

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 10.0 WORST CASE SCENARIO

POTENTIAL EVENT	SPILL DIRECTION	VOLUME RELEASED	SPILL RATE
Complete failure of a full tank  Containment or catch basin which drains to storm lagoon		1,000	Instantaneous
Partial failure of a full tank	Containment or catch basin which drains to storm lagoon	l to 999 gallons	Gradual to instantaneous
Tank overfill	Catch basin which drains to storm lagoon	l to many gallons	Up to pump capacity
Pump rupture or failure	Catch basin which drains to storm lagoon	l to several gallons	l gallon per minute up to pump capacity
Pipe failure	Tank Containment	Several ounces to several gallons	4 gallons per minute
Leaking pipe, hose or nozzle.	Tank Containment	Several ounces to several gallons	1 gallon per minute up to pump capacity
Tank truck leak or failure	Catch basin which drains to storm lagoon	l to 8,000 gallons	Gradual to instantaneous
Hose leak during truck loading	Catch basin which drains to storm lagoon	l to several gallons	l gallon per minute up to pump capacity

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 11.0 SPILL HISTORY

# TÚ-T SPŘÍLÍ ŘVŘÍVTS (\* 1772 – 1772)

GM Bedford has not had any reportable spills in the last three years. Spills dating back to 1973 are kept in a separate file in the Environmental Manager's Office.

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN SECTION 12.0 PLAN DISTRIBUTION

### 12.1 DISTRIBUTION PROCEDURE

Copies of this plan have been provided to the following departments and the local emergency/medical responders:

NAME	PHONE NUMBER	PLAN NUMBER
Environmental Engineering	(812) 279-7404	01
Security	(812) 279-7360	02
Process Control and Logistics	(812) 279-7166	03
(PC&L) Department		
Maintenance	(812) 279-7374	04
Safety	(812) 279-7216	05
Bedford Fire Department	(812) 275-4544	06
Bedford Police Department	(812) 275-3311	07
Regional Medical Center	(812) 275-1200	08
Lawrence County Local	(812) 279-6111	09
Emergency Planning	•	
Committee		
Dunn Memorial Hospital	(812) 279-2100	10
Environmental Board	N/A	11
(Pistons)		
Environmental Board	N/A	12
(Die Cast)		
Environmental Board	N/A	13
(Guard House)		
Resource Management	(812) 279-7144	14
Chemical Management	(812) 279-7018	15
Spill Recovery of Indiana	(800) 421-7764	16

## Attachment A

Reportable Quantity Table

# GENERAL MOTORS CORPORATION - BEDFORD REPORTABLE QUANTITY TABLE RELEASE PLAN

#### Spills to surface water, internal and external to the facility:

	CERCLA	EHS (SARA Title III)	RCRA	SPCC
Liquid Aluminum Sulfate (Alum)	736 gallons	N/A	N/A	N/A
Drew 6110 Coreactant (Sodium Hypochlorite)	293 gallons	N/A	N/A	N/A
Amersep 5320 Coagulant (Ferric Sulfate)	39 galions	N/A	N/A	N/A
Amersep 5320 Coagulant (Sulfuric Acid)	6,500 gallons	6,500 gallons	N/A	N/A
Drew 6005 (Hydrochloric Acid)	961 gallons	N/A	N/A	N/A
РСВ	1 pound	N/A	N/A	N/A
Hazardous Waste	N/A	N/A	55 gallons	N/A
Petroleum (gas, diesel, oils)	N/A	N/A	N/A	Any spill that causes a sheen.

# GENERAL MOTORS CORPORATION - BEDFORD REPORTABLE QUANTITY TABLE (Cont.) RELEASE PLAN

#### Spills to soil beyond facility boundary:

	CERCLA	EHS (SARA Title III)	RCRA	SPCC
Liquid Aluminum Sulfate (Alum)	736 gallons	N/A	N/A	N/A
Drew 6110 Coreactant (Sodium Hypochlorite)	293 gallons	N/A	N/A	N/A
Amersep 5320 Coagulant (Ferric Sulfate)	39 gallons	N/A	N/A	N/A
Amersep 5320 Coagulant (Sulfuric Acid)	6,500 gallons	6,500 gallons	N/A	N/A
Drew 6005 (Hydrochloric Acid)	961 gallons	N/A	N/A	N/A
PCB	1 pound	N/A	N/A	N/A
Hazardous Waste	N/A	N/A	55 gallons	N/A
Petroleum (gas, diesel, oils)	N/A	N/A	N/A	55 gallons

# GENERAL MOTORS CORPORATION - BEDFORD REPORTABLE QUANTITY TABLE (Cont.) RELEASE PLAN

#### Spills to soil within facility:

	CERCLA	EHS (SARA Title III)	RCRA	SPCC
Liquid Aluminum Sulfate (Alum)	736 gallons	N/A	N/A	N/A
Drew 6110 Coreactant (Sodium Hypochlorite)	293 gallons	N/A	N/A	N/A
Amersep 5320 Coagulant (Ferric Sulfate)	39 gallons	N/A	N/A	N/A
Amersep 5320 Coagulant (Sulfuric Acid)	6,500 gallons	6,500 gallons	N/A	N/A
Drew 6005 (Hydrochloric Acid)	961 gallons	N/A	N/A	N/A
PCB	1 pound	N/A	N/A	N/A
Hazardous Waste	N/A	N/A	55 gallons	N/A
Petroleum (gas, diesel, oils)	N/A	N/A	N/A	1000 gallons

5,000 lbs. of 100% Alum  $\begin{pmatrix}
gal. \\
14 lb.
\end{pmatrix} = 357 gals. of 100% Alum$ 357 gals. of 100% Alum  $\begin{pmatrix}
1 \\
0.485
\end{pmatrix} = 736 gals. of 48.5\% Alum$ 1,000 lbs. of 100% Sodium  $\begin{pmatrix}
gal. \\
12.6 lb.
\end{pmatrix} = 79 gals. of 100% Sodium
<math display="block">
Hypochlorite$ 79 gals. of 100% Sodium Hypochlorite  $\begin{pmatrix}
1 \\
0.27
\end{pmatrix} = 293 gals. of 27\% Sodium
<math display="block">
Hypochlorite$ 1,000 lbs. of 100% Ferric Sulfate  $\begin{pmatrix}
gal. \\
25.9 lb.
\end{pmatrix} = 39 gals. of 100% Ferric Sulfate$ 1,000 lbs. of 100% Sulfuric Acid  $\begin{pmatrix}
gal. \\
15.3 lb.
\end{pmatrix} = 65 gals. of 100% Sulfuric Acid$ 65 gals. of 100% Sulfuric Acid  $\begin{pmatrix}
1 \\
0.01
\end{pmatrix} = 6,500 gals. of 1% Sulfuric Acid$ 5,000 lbs. of Hydrochloric Acid  $\begin{pmatrix}
gal. \\
13.7 lb.
\end{pmatrix} = 365 gals. of 100% Hydrochloric Acid$ 365 gals. of 100% Hydrochloric Acid  $\begin{pmatrix}
gal. \\
13.7 lb.
\end{pmatrix} = 961 gals. of 38% Hydrochloric Acid$ 

## Product Safety Data Sheet

## Liquid Aluminum Sulfate Alum

A. General Information		Hazarda (Fire and Explosion)			
Trade Name (Com	mon Name or Synonym)	Flesh Point *C: Not flammable Open Cup Closed Cup			
Llouid Atum				N	
CAS. 610043-014	(ennydrous)			N/	
Chemisal Name Aluminum Sulfale, a	aqueous solution	Unusual Fire and	See Hazardovs Decomposition		
Formula 48.5% Ab/SO(b - 1	i 4 H-O in water	ور حابد الماد الما	-		
- •			sie ideumicanou passiui		
594 (approx ) for A	b (SO <sub>2</sub> ): - 14 H2O	H: 1			
		F: 0			
P.O. Box 819	•	界: 1			
Contact Technical Director	Phone Number (419) 865-8000				
	Provised Date	D. Precautions/Pr	roce duras		
	19810111990	Fire Extinguishing A	gents Recommended:	W/	
Trede Reme (Common Name or Synonym)  Liquid Assm C.A.S. 61003-01-3 (enhydrous)  Chamiles Name Auminum Sulfate, squicous solution  Formulas 48.5% Air (SO)→ 14 Hi O m weter  Redeauther Weight 594 (epprox ) for Ab (SO)→ 14 Hi O Addresse Ceneral Aum & Chemical Corporation P.D. Box 819 Holland, Ohio 43528  Centract Phone Number Holland, Ohio 43528  Centract Phone Number (419) 865-8000 Pertend Director (419) 865-8000 Pertend Director Pyose: Fush weight persynoly for elegant 15 manufacts with weiter, continuing for elegant 15 manufacts with weiter (1918) 855-8000  Eyes: Fush Notice (Chi by Mal.):  Unusual First and See Hassricous Decomposition Synthemics Materials identification of the control of weiter institute with life and proposed by NICSH. Use Estimated Proceedings Approved by NICSH. Use Proceedings (and proceed of Western Recomplication Materials in Control of weiter institute with life and proceedings of the consequence control of weiter institute with life and proceedings of the consequence carbon dioxide gas. (See 1)  C. Hazardia Information (Health)  Invalidation: Imperation: Imperation: May irrest pastronities from the control of the consequence carbon dioxide gas. (See 1)  Invalidation: Imperation: May irrest pastronities from the control of the contr			Ŵ.		
B. First Ald Med	nsures .	Special Fire	Weer self-consumed breathing appears		
<b>Emergency Phone</b>	Number (419) 865-8000	Fighting	epproved by NIOSH. Use water apray	ю	
Eyes:	Flush immediately with water, continuing				
	for at least 15 minutes. If initiation paraists,		May exceed TLV without visible indicat	ior	
Sidn:		Normal Handling:		g.	
		Storage:	Store in corrosive resistant container.		
Inhelation:	Promptly remove to fresh air.	Spin of Leak:	Dilute arnall spile or leaks cautiously w	kh	
ingestion:	quantity of water or mills. If not stready vomiting, induce vomiting by truching finger to back of throat. Get medical	•	plenty of water. Neutralize any further residue with alkali such as soda ash, lime or imeatone. Adequate ventilation required if soda ash or limeatone is us because of the consequent release of the consequent release if the		
C. Hazards Info	rmation (Health)		disposal methods ) Large spills: Dika up with sode ash, and neutralize and w		
inhelation:			1011121 20013		
Ingestion:	tract solutions may cause burns to the digestive tract, LDs (mouse), 980 mg (Al)/kg — Reference (a), Recorded human	Precedures!	Not for food use unless labsted food grade. Not for drug use.		
Skin:			(continued on back)		
<del></del>			·		
Permissible	may an addit a money or addit a sage				
Concentration Air:	TLV: 2 mg(Alyou m. (ACGH)				
Biological:	N/A (See Section I)				

	Where required, use a respirator approved	Degradability/	Aquatic Toxicity	/	
Protection:	by NIOSH for mists.	Aquetic Taxielty:	mining: 14 PPM/36 M/Tundulus/Ialai/fi		Water
Type and Face:	Wear hard hat (or other head covering) and		240 PPM/48 hr.	Mosquitofist/TL-/	-
	chemical safety googles. Do not wear		Water type not		-
	contact lenses.	EPA Hazardous	Yes DNo		
Hends, Arms,	Wear impervious groves and apron and full	Buhatango:	Pleportable CAR basis, 5,000#	entity, Aluminum Su	mate
and Body:	work clothing, including long-steeved shirt and trousers, boots. Completely Impervious	Waste Disposel		alust, then flush to	-
	ciomes anguid be aubstituted if there is	Methods (Disposer		eter if permitted by	
	prolonged or repeated contect.	must comply with	cable disposal	regulations Noutre	Mzed
Other Clothing	Eye-wash and guick-drench shower	Federal, State and	weste may have	e to be disposed o	by an
and Squipment:	facilities.	Local Disposal or Discharge Laws):		ontractor. When ust neutralization, ade	
		native de rawe):		ould be taken to mi	
F. Physical Data				essure build-up fro	
Material is (a)	Eliquid DSolid DGas		gas evolution.		
Normal Conditions).		RCRA Status of		Waste No. D002	40CFF
Acceparance and	Colories to slightly amber figure with a	Unused Material:	(corresive) If did	Caroso	261-22
Oder:	negligible degree of paor.				
Soiling Point:	214°F/101°C Freezing Point: +5°F/-18°C	J. SARA/TITLE	il Hazard Cate	gories & Lists	_
Specific Gravity (Ho	O = 1); 1.328	PRODUCT HAZARD	CATEGORIES.		
Vapor Density (Air =		Chronic (Deleved) H	•	No	
Sciubility in Water (		Acute (Immediate) H		Yes	
pM:	1% solution; pH = 3.5 (approx.)	Fire Hazard		No	
Veper Pressure:	(mm Hg at 20°C) [ (PSIG) [ NA	Pressure Hazard Reactivity Hazard		No No	
Eveporation Rate:	(Butyl Acetate = 1) (Ether = 1) N/A	•			
% Volation by Volum	Me: (A: 20°C) N/A	LISTS.			
		Externely Hazardou		A1-	
G. Reactivity De	ta	(40 CFA 365, SARA		No	
Sembles/:	☐ Unstable 图 Stable	CERCLA Hazardous	Substance	Yes Auminum	
Conditions to	If evergrated to dryness, residue should	(40 CFR 302.4)		Besis RC = 5,	,000 IES
Avold:	not be exposed to temperature above	Toxic Chemical	D. G 2001		
	760°C (1400°F) Those yield toxic and	(40 CFR 372.65, SA	MY 20CHOL 213)	No	
	conceive gases.				
Incompatibility (Materials to Avoid):	Alkalies and water-reactive materials such as oleum: ocuse exothermic reactions	K. Additional	Internetten		
Hestorious	At temperature cled above, suffer code	D.O.T. Clausifica	ton - B (Corros	MB)	
Decomposition	pases. These are rode and are outdizers	DOT ID No. UN			
Products:	and corrosive. The trioxide is also a fire	DOT Packing Gr	oup lif	oada) — RQ, Com	
	hezard. The loss of these gases leaves	Limit Acidic II	produic NOS	(Aluminum Sulfane	Solution
	a caustic residue.	8, UN 3294, PG	M.		<del></del>
Hazardous Polymerization:	May Occur Will not Occur	Terter Placerd -	- Corrosive place	and with ID No. 320	<b>34</b> .
Conditions to Avoid				<u>-</u> -	

H. Hezardous Ingredients (Mixtures Only)

Wit.% Hazard Date (See Section J) 10043-01-3 Aluminum Sulfate (Anhydrous) 48.5%

Information and state herein are believed to be accurate and compiled from accurate sources. Buyer assumes all risk for use, storage and handling to comply with State, Federal and Local regulations, General Alum and Chemical Corporation mainte no warranty expressed or implied concerning the accuracy or completeness of the information supplied

General Alum & Chemical Corporation P.O. Box 819 • Holland, Onio 43528 • (418) 865-8000



#### **Liquid Aluminum Sulfate** Technical Data Sheet **ALUM** Chemical Symbol Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>·14H<sub>2</sub>O In Aqueous Solution Name of Chemical Liquid Aluminum Sulfate / Liquid Alum Commercial / Iron Free / Food Chemical Codex / Custom Formulations Available Grade #'s/Gallon Density 14.00 ILI % as ALO: 83±0.2 Concentration Molecular Weight Dry Alum (14H<sub>2</sub>O Product) 594 Description Liquid Aluminum Sulfate, or Liquid Alum, is colorless to amber depending upon the grade specified. Composition Approximately 48.5% Dry Aluminum Sulfate. pH, 1% Solution (14H2Q product); 3.5 Specific Gravity 1.328 **Properties** Freezing Point 5°F Store at temperature of 45°F minimum Boiling Point 2149 Typical Analysis Commercial Iron Free Total Soluble Al<sub>2</sub>Q<sub>3</sub>% L3 Free AlaQa% 0.05 0.05 Total Iron 0.1 0.005 (**as** Fe)% Actual Ferric Iron 0.03 (88 Fe<sub>2</sub>O<sub>2</sub>)% 0.01 0.004 Water Insolubles % Shipping Mode Tank Trucks 4.500 gallons D.O.T. Classification: ORM-8 / Proper Shipping Name: Aluminum Sultate Solution / Shipping Regulations D.O.T. ID No.: NA 1780 / D.O.T. Label and placard: None Toledo, Ohlo, Indianapolis, Indiana and Saukville, Wisconsin. Shipping Locations Pulp & Paper Industry - Fixes rosin size on paper fibers, drainage and retention aid, Product Applications pitch control agent. Water Treatment - Flocculation agent for solids or color removal. Municipal and Industrial Wastewater Treatment - Coagulation/Flocculation agent Phosphorus removal. Food industry - Firming agent in pickle & vegetable processing, processing aid in the preparation of baked goods, puddings and gelatins. Greese/Soap Manufacture - Source of Aluminum ron.

For technical information, contact: General Atum & Chemical Corporation P.O. Box 819 Holland, Ohio 43528 • (419) 865-8000 Toll-Free 1-800-537-7561

no commission is compar in good acceptable of agents have been an interpreted in the polyticity of authorities Separati, of the Spacker absenced, any or companies of agents have been present on one array to program of Authorities study, come and not been more explainted that the statebody of builty statist in every companies of commission and of the polytical size is a separate before its cases which introduce very particular at an approximate a beside very page. 1

#### CHEMISTFI VIR DATE 1986-02 ID MATERIAL SAFETT DATA SHEET

1-71 VE 10 7

SISTION OF CHEMICAL PRODUCT & CONTANY ID

PRODUCT FRIBARY NAME SODIUM HYPOCHLORITE CHAT SYNONYNG GODIUM HYFOCHLORITE

HODO DIGNED BY NAME CHARLED T. WILCON DIL. MSDS SIGNED BY TITLE DIRECTOR OF ENVIRONMENTAL SERVICES

CALE USE CATEGORY AND DESCRIPTION (1) -CORROSIVES - COMCENTRATED NASE pli / 10

MODS CREATE DATE 1985-01-01 LAST UPDATED DATE 1986-09-03

MARULACTURER'S ID (MID) 000521293 MANUFACTURER'S NAME ULRICH CHEMICAL CO

MANUTACTURER'S EMERGENCY PHONE NUMBER/TEXT US 317-878-8630

MANUFACTURER S HAILING ADDRESS

3111 NORTH FOST ROAD INDIANAPOLIS IN 46226 US.

CHIMICAL TEMILY MAKE CXIDIZING AGENT

HOLDOLAR TORMULA NACCL

age one age to the same of an age to the same

SECTION OF COMPOSITION & INGREDIENT INFO

W/ CHEMICAL NAME 040# TOFMULATION 0010:0700 = 10.7000' 0.0000% V Daustro soda 007000:05 = 70.3000' 0.0000% V WATER 007780505 = 10.0000% V Chiprine V CHLORINE

THILD DIE LIFTY VALUE NOT APPLICABLE

TYMICOIPLE EXPOSURE LIMIT NA

OT CLA (CU EFFUND) REPORTABLE QUANTITY (LBG) A

DESTIER OF HARARDS IDENTIFICATION

. THAR' ELTRY ROLTE INDICATORS / IN PRIMARY ENTRY ROUTE INDICATOR = N . · I frime .. ERTR: ROUTE INDICATOR = N MALATICA FRIMARY ENTRY ROUTE INDICATOR = N LNGESTION RIMARY ENTRY ROUTE INDICATOR = TRINARY ROUTES OF ENTRY TEXT NA

L. TECTO OF EVEREXPODURE IRRITATING EFFECTS INCREASE WITH STRENGHT OF COLUTION AND TIME OF EXPOSURE.

SLCTION TO OTHER INFORMATION HA

DECTIO: 04 FIRST AID MEASURES

TERRENCE FIRST AID FROCEDURES GENERAL EYES WASH WITH WATER FOR AT

FID: 00:92(1) VER DATE: 1986-02-13

#### C H E M I S T R I MATERIAL SAFETY DATA SHEET

TATE COMMENT TIME 10 AS: PAGE 1

LEAST 15 MIN. CONTACT AN EYE SPECIALIST IMMEDIATELY. INJESTICA IF ACCIDENTALLY SWALLOWED PRINK WATER, HILK AND OBTAIN HEIDERL ATTENTION DO NOT USE BAKING DODA OR ACIDIC ANTIDOTIES.INHALATION: REMOVE MERSON TO FRESH AIR.

SECTION 05: FIRE-FIGHTING MEASURES

EXTINGUIGHING MEDIA. NOT APPLICABLE

SPECIAL FIRE FIGHTING PROCEDURES: AVOID FUMES FROM STILLED OR EXPOSED LIQUID, DILUTE COPICUSLY, VENTILATE, AND BE PREPARED TO USE RESPIRATORY PROTECTION IF NEEDED. ACID CONTAMINATION WILL PRODUCE VERY IRRITATING FUMES SIMILAR TO CHLORINE GAS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: DLEACH DECOMPOSES WHEN HEATED; DECOMPOSITION PRODUCTS MAT CAUSE CONTAINERS TO RUPTURE OR EXPLODE. VIGOROUS REACTION POSSIBLE WITH ORGANIC MATERIALS OR OXIDIZING AGENTS; MAY RESULT IN A FIRE.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: FLUSH WITH WATER TO DILUTE AS MUCH AS MOSSIBLE AVOID HEAT AND CONTAMINATION WITH ACID MATERIALS.DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST TO ABSORB HYPOCHLORITE.

SICTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: NORMAL HANDLING PROCEDURE AS INSTUCTED ON CONTAINER.STORE IN COOL, DRY LOCATION AWAY FROM FIREST CUNLIGHT.

SISTIGN 7 - OTHER INFORMATION: KEEP CONTAINERS VENTED DURING SHIPMENT

SECTION OG: EXPOSURE CONTROLS - PROTECTION

LYE PROTECTION: GOGGLES

RESPIRATORY PROTECTION: WHEN FUMES ARE PRESENT USE NIOSH APPROVED RESPIRATOR WITH ACID TYPE CARISTER.

PLESSMAN PACTICTIVE EQUIPMENT, RUBBER APRON

DICTION E - OTHER INFORMATION: NONE

NEGRUE GLOVES (OPEDIFY TYPE). RUBBER

SECTION COM PHYSICAL & CHEMICAL PROPERTIES

AREATICAL VOC WITHOUT WATER: N

THIORETICAL VOC WITHOUT WATER, N

DSIMING POINT TEXT: NA

IFILITIO GRAVITY VALUES = 1.1400

.11. 60192111 VER DATE: 1986-02-13

O m E m I G T R I MATERIAL SAFETY DATA SHEET

TIME: 10:42 2

SPECIFIC GRAVITY TEXT: =4.14

VAPOR DENSITY TEXT: NA

VAPOR PRESSURE TEXT: NA

PERCENT VOLATILE BY VOLUME TEXT: NA

PERCENT SOLID BY WEIGHT TEXT: NA

**LVAPORATION RATE TEXT: NA** 

COLUBILITY IN WATER TEXT: COMPLETE

THE NUMBER SOLUTION TEXT: 12

PACKAGED PH NUMBER CONCENTRATION VALUES: = 12.0000

APPEARANUE: LIGHT YELLOW-GREEN - PUNGENT LIKE CHLORINE

PHYSICAL STATE: LIQ

PHYSICAL STATE TEXT: LIQUID

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y

STABILITY - CONDITIONS TO AVOID: TEMPERATURES & TIME, ARE SODIUM

CHLORIDE, DODIUH CHLORATE & CXYGE

GTABILITY - TEXT: Y

INCOMPATIBLE MATERIALS: AVOID CONTAMINATION WITH HEAVY MATALS.

MAZARDOUS DECOMPOSITION PRODUCTS: HYPCOHLOROUS ACID (HOCI) CHLORINE OFFICE ACID.COMPOSITION DEPENDS UPON TEMPERATURE & DECREASE IN PIL.

HAZARDOUD POLYMERIZATION INDICATOR: N

MAZARDOUS FOLYMERIZATION - CONDITIONS TO AVOID: TEMPERATURES AND TIME

MAIARDOUE POLYMERIZATION TEXT: NOT APPLICIABLE

SECTION 40: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: REDUCE WITH CHEMICALS LISTED BELOW.KEEP ON ALKALINE SIDE AND DILUTE WITH COPIOUS QUANTITIES OF WATER.MAIN END PRODUCT IS SALT WATER.(NACL) REDUCING AGENTS SUCH AS DISULFITES OR MERROUS SALT SOLUTIONS.

UZZTION 16: OTHER INFORMATION

SECTION 16 " OTHER INFORMATION: NONE

RORA HAZARDOUS WASTE NUMBER TEXT: N

LOCAL EXHAUST: NONE SPECIAL

SPECIAL PROTECTION: NONE

Carrent of the section

: ID 60192111 OH E H I I T R I MATERIAL SAFETY DATA SHEET

SPECIAL PROTECTION (MECHANICAL): NONE

\*ID: 0020416B

/ER DATE: 1987-04-07

C H E M I S T R I MATERIAL SAFETY DATA SHEET

DATE: 06/12/96 TIME: 12:34:10

PAGE: 1

SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: FERRIC SULFATE

CHAT SYNONYMS: FERRIC SULFATE

SAFE USE CATEGORY AND DESCRIPTION: 08 -METALS, METAL SALTS, SOLDERS,

POWDERED M

MSDS CREATE DATE: 1985-01-01 LAST UPDATED DATE: 1992-12-07

MANUFACTURER'S ID (MID): 000508688
MANUFACTURER'S NAME: EASTMAN KODAK CD

MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 716-722-5151 EMERGENCY

HEALTH, SAFETY

MANUFACTURER'S MAILING ADDRESS:

343 STATE ST ROCHESTER NY 14650

US

MOLECULAR FORMULA: FE.3/2 H2 O4 S

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS# FORMULATION W/V CHEMICAL NAME

010028225 =100.0000/ 0.0000% N IRON(III) SULFATE

THRESHOLD LIMIT VALUE: ACGIH: 10028225: 1 MG/M3 (AS IRON). // 1 MG/M3

AS FE TWA, ACGIH 1986-87.

GECTION 03: HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - SKIN: LOW HAZARD FOR USUAL INDUSTRIAL HANDLING.

EFFECTS OF DVEREXPOSURE - EYE: NO SPECIFIC HAZARD KNOWN. CONTACT MAY CAUSE TRANSIENT IRRITATION.

EFFECTS OF OVEREXPOSURE - INHALATION: LOW HAZARD FOR USUAL INDUSTRIAL HANDLING.

EFFECTS OF OVEREXPOSURE - INGESTION: EXPECTED TO BE A LOW INGESTION HAZARD.

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - SKIN: WASH AFTER EACH CONTACT.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH EYES WITH PLENTY OF WATER.

EMERGENCY FIRST AID PROCEDURES - INHALATION: REMOVE TO FRESH AIR

FOLLOWING OVEREXPOSURE.

EMERGENCY FIRST AID PROCEDURES - INGESTION: DRINK 1-2 GLASSES OF WATER.

SEEK MEDICAL ATTENTION.

SECTION 05: FIRE-FIGHTING MEASURES

FID: 0020416B

VER DATE: 1987-04-07

C H E M I S T R I MATERIAL SAFETY DATA SHEET

DATE: 06/12/96 TIME: 12:34:10

PAGE: 2

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING

APPARATUS AND PROTECTIVE CLOTHING.

UNUSUAL FIRE AND EXPLOSION HAZARDS: FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

FLASH POINT TEXT: NOT APPLICABLE.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: FLUSH TO A SEVER WITH LARGE AMOUNTS OF WATER.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: NONE

SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: SAFETY GLASSES RECOMMENDED IN INDUSTRIAL OPERATIONS INVOLVING CHEMICALS.

SKIN PROTECTION: IF PROLONGED OR REPEATED SKIN CONTACT IS NECESSARY, GLOVES OR OTHER PROTECTION MAY BE REQUIRED.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION MAY BE NEEDED IN SPECIAL CIRCUMSTANCES.

VENTILATION: GOOD VENTILATION SHOULD BE SUFFICIENT. SUPPLEMENTARY VENTILATION MAY BE NEEDED IN SPECIAL CIRCUMSTANCES.

PROTECTIVE GLOVES (SPECIFY TYPE): AWAITING EXACT TYPE.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

THEORETICAL VOC WITHOUT WATER: NA.

SPECIFIC GRAVITY VALUES: = 3.1000

VAPOR PRESSURE TEXT: NEGLIGIBLE.

EVAPORATION RATE TEXT: (N-BUTYL ACETATE = 1): NEGLIGIBLE.

SOLUBILITY IN WATER TEXT: APPRECIABLE.

APPEARANCE: GRAY CRYSTALLINE SOLID.

SECTION 9 - OTHER INFORMATION: MELTING WITH DECOMPOSITION: 480 C (896

F) // VOLATILE FRACTION BY WEIGHT: NEGLIGIBLE.

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y STABILITY - TEXT: STABLE. 'ID: 00204168

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FITH WHICH THE MATERIAL MAY REASONABLY COME INTO CONTACT.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF SULFUR.

HAZARDOUS POLYMERIZATION INDICATOR: N

HAZARDOUS POLYMERIZATION TEXT: WILL NOT OCCUR.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT

TO FEDERAL, STATE OR LOCAL LAWS.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION: REGULATED

\_\_)G SHIPPING NAME: NR

SECTION 15: REGULATORY INFORMATION

SECTION 15 - OTHER INFORMATION: WHMIS CLASS: N

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SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: SULFURIC ACID, N/50

CHAT SYNONYMS: SULFURIC ACID, N/50

SAFE USE CATEGORY AND DESCRIPTION: 13 -COMPRESSED GAS - INERT

MSDS CREATE DATE: 1985-01-01 LAST UPDATED DATE: 1992-09-30

MANUFACTURER'S ID (MID): 000525910

MANUFACTURER'S NAME: DREW DIVISIONS/ASHLAND CHEMICAL INC MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 606-324-1133

MANUFACTURER'S MAILING ADDRESS:

ONE DREW PLAZA SUBSIDIARY OF ASHLAND OIL BOONTON NJ 07005

CHEMICAL FAMILY NAME: NA

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS# FORMULATION W/V CHEMICAL NAME 007664939 ( 0.0000/ 1.0000% N Sulfuric acid 007732185 >100.0000/ 0.0000% N WATER

THRESHOLD LIMIT VALUE: 1 MG/M3

PERMISSIBLE EXPOSURE LIMIT: 1 MG/M3

SECTION 03: HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTE INDICATORS: SKIN PRIMARY ENTRY ROUTE INDICATOR = EYE PRIMARY ENTRY ROUTE INDICATOR = INHALATION FRIMARY ENTRY ROUTE INDICATOR = INGESTION FRIMARY ENTRY ROUTE INDICATOR = PRIMARY ROUTES OF ENTRY TEXT: EYES INGESTION

EFFECTS OF OVEREXPOSURE: MAY BE IRRITATING TO EYES

ADDITIONAL HEALTH HAZARD DATA: AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING.

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - GENERAL: EYE AND SKIN CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES. CALL PHYSICIAN. FLUSH SKIN WITH PLENTY OF WATER. INGESTION: DO NOT INDUCE VOMITING. GIVE 1 -2 GLASSES OF WATER. CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: REMOVE O FRESH AIR.

SECTION 05: FIRE-FIGHTING MEASURES

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EXTINGUISHING MEDIA: NA

UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: COVER CONTAMINATED SURFACES WITH SODA ASH OR SODIUM BICARBONATE. MIX AND ADD WATER IF NECESSARY. USE LITMUS PAPER AND MAKE SURE PH OF SLURRY IS NEUTRAL OR ADD NEUTRALIZER UNTIL MIXTURE STOPS BUBBLING. SCOOP UP THE SLURRY AND WASH WITH NEUTRAL WASTE DOWN THE DRAIN WITH EXCESS WATER. WASH THE SIT WITH SODA ASH SOLUTION.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE TIGHTLY CLOSED IN A COOL, DRY PLACE.

SECTION 08: EXPOSURE CONTROLS - PROTECTION

PERSONAL PROTECTIVE EQUIPMENT: ADEQUATE VENTILATION, SAFETY GLASSES, DISPOSABLE GLOVES.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT TEMPS: 100.00C/ 212.00F

BOILING POINT TEXT: 100 DEG C

SPECIFIC GRAVITY VALUES: = 0.9850

SPECIFIC GRAVITY TEXT: =0.985

VAPOR DENSITY TEXT: ND

VAPOR PRESSURE TEXT: NOT DETERMINED

EVAPORATION RATE TEXT: ND

SOLUBILITY IN WATER TEXT: MISCIBLE

TH NUMBER SOLUTION TEXT: 2.0

PACKAGED PH NUMBER CONCENTRATION VALUES: = 2.0000

APPEARANCE: CLEAR AND COLORLESS AND ODORLESS

PHYSICAL STATE: LIQ

PHYSICAL STATE TEXT: LIQUID

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y

STABILITY - CONDITIONS TO AVOID: EXTREME TEMPERATURES

STABILITY - TEXT: STABLE

HAZARDOUS DECOMPOSITION PRODUCTS: NA

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HAZARDOUS POLYMERIZATION INDICATOR: N

HAZARDOUS FOLYMERIZATION - CONDITIONS TO AVOID: EXTREME TEMPERATURES

SECTION 13: DISPOSAL CONSIDERATIONS

HACTE DICEOGAL METHOD: DICEOGE DE IN ACCOUNANCE HITH ALL CENERAL

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

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SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: HYDROCHLORIC ACID, CONCENTRATED (36-37%)

CHAT SYNONYMS: A142 A144

A466 A4662 A481 A508

CHLORDHYDRIC ACID

HYDROCHLORIC ACID, CONCENTRATED (36-37)
HYDROCHLORIC ACID, CONCENTRATED (36-37%)

HYDROCHLORIDE

HYDROCLORIC ACID, CONCENTRATED

HYDROGEN CHLORIDE, 23 EB

MURIATIC ACID SPIRITS OF SALT

UN 1789

187317 (OLD FID)

192519 (OLD FID)

220506 (OLD FID)

237442 (OLD FID)

35392 (OLD FID)

SAFE USE CATEGORY AND DESCRIPTION: 09 -CORROSIVES -- CONCENTRATED ACID -- PH < 4

MSDS CREATE DATE: 1985-01-01 LAST UPDATED DATE: 1994-12-02

MANUFACTURER'S ID (MID): 000529957

MANUFACTURER'S NAME: FISHER SCIENTIFIC CO.

MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 201-796-7100

HANUFACTURER'S MAILING ADDRESS:

1 REAGENT LANE P.O. BOX 375

FAIRLAWN NJ 07410

US

CHEMICAL FAMILY NAME: INDRGANIC ACID

MOLECULAR FORMULA: H-CL

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS# FORMULATION W/V CHEMICAL NAME 007647010 R 35.0000/ 38.0000% N HYDROCHLORIC ACID

007732185 R 62.0000/ 65.0000% N WATER

SECTION 2 - OTHER INFORMATION: HYDROGEN CHLORIDE: 5PPM,(7.6MG/M3), NIOSH RECOMMENDED CEILING. // 5PPM (7.6MG/M3) DFG MAK TWA. // 10 PPH (15.2 MG/M3) DFG MAK 5 MINUTE PEAK, MOMENTARY VALUE, 8 TEMES/SHIFT. // OTHER CONTAMINANTS.

THRESHOLD LIMIT VALUE: HYDROGEN CHLORIDE: 5PPM (7.6MG/M3), CEILING

PERMISSIBLE EXPOSURE LIMIT: HYDROGEN CHLORIDE: 5PPM (7.6MG/M3) CEILING.

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CERCLA (SUPERFUND) REPORTABLE QUANTITY (LBS): 5000 POUNDS CERCLA SECTION 103. // REPORTABLE QUANTITY (LIQUID) REPORTABLE QUANTITY (RQ) 5000 POUNDS. THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) SECTION 304 REQUIRES THAT A RELEASE EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITY FOR THIS SUBSTANCE BE IMMEDIATELY REPORTED TO THE LOCAL EMERGENCY PLANNING COMMITTEE AND THE STATE EMERGENCY RESPONSE COMMISSION (40 CFR 355.40). IF THE RELEASE OF THIS SUBSTANCE IS REPORTABLE UNDER CERCLA SECTION 10'0', THE NATIONAL RESPONSE CENTER MUST BE NOTIFIED IMMEDIATELY AT (800) 424-8802 OR (202) 426-2675 IN THE. METROPOLITAN WASHINGTON, D.C. AREA 740 CFR 302.6).

#### SECTION 03: HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - SKIN: HYDROGEN CHLORIDE (HYDROCHLORIC ACID): CORROSIVE.

EFFECTS OF OVEREXPOSURE - SKIN ACUTE: CONTACT MAY CAUSE SEVERE IRRITATION, INFLAMMATION, ULCERATION, NECROSIS AND CHEMICAL BURNS. SHOCK SYMPTOMS MAY DEVELOP INCLUDING RAPID PULSE, SWEATING AND COLLAPSE. PHOTOSENSITIZATION REACTIONS MAY OCCUR IN PERSONS PREVIOUSLY EXPOSED. CONTACT WITH A COMPRESSED GAS MAY CAUSE FROSTBITE. EFFECTS OF OVEREXPOSURE - SKIN CHRONIC: REPEATED OR PROLONGED CONTACT WITH VAFORS OR DILUTE SOLUTIONS MAY CAUSE DERMATITIS. PHOTOSENSITIZATION MAY OCCUR.

EFFECTS OF OVEREXPOSURE - EYE: HYDROGEN CHLORIDE (HYDROCHLORIC ACID): CORROSIVE.

EFFECTS OF OVEREXPOSURE -- EYE ACUTE: CONTACT MAY CAUSE SEVERE IRRITATION, CONJUNCTIVITIS, CORNEAL NECROSIS AND BURNS WITH IMPAIRMENT OR PERMANENT LOSS OF VISION. A DROP OF HYDROCHLORIC ACID SPLASHED IN THE EYE AND IMMEDIATELY WASHED OUT HAS PRODUCED A WHITE COAGULATION OF THE CORNEAL AND CONJUNCTIVAL EFITHELIUM. ANIMALS EXPOSED TO VAPOR CONCENTRATIONS OF 1350 PPM FCR ONE AND A HALF HOURS SHOWED CLOUDING OF THE CORNEA AND 300 PPM FOR 6 HOURS SHOWED SLIGHT EROSION OF THE CORNEAL EPITHELIUM. CONTACT WITH A COMPRESSED GAS MAY CAUSE FROSTBITE. EFFECTS OF OVEREXPOSURE - EYE CHRONIC: ANIMALS EXPOSED TO VAPOR AT 100 PPM FOR 6 HOURS DAILY FOR 50 DAYS SHOWED ONLY SLIGHT UNREST AND IKRITATION OF THE EYES, BUT NO OCULAR INJURY. EFFECTS ARE DEPENDENT UPON CONCENTRATION AND DURATION OF EXPOSURE. CONJUNCTIVITIS OR EFFECTS. SIMILAR TO THESE FOR ACUTE EXPOSURE NAY OCCUR.

EFFECTS OF OVEREXPOSURE - INHALATION: HYDROGEN CHLORIDE (HYDROCHLORIC ACID): CORROSIVE. 100 PPN IMMEDIATELY DANGEROUS TO LIFE OR HEALTH. EFFECTS OF OVEREXPOSURE - INHALATION ACUTE: ACUTE EXPOSURE: INHALATION OF GAS OR FUMES AT LEVELS OF 5-35 PPM MAY CAUSE IRRITATION AND BURNING OF THE THROAT, COUGHING AND CHOKING; 50-100 PPM MAY BE BARELY TOLERABLE FOR 1 HOUR. HIGH LEVELS MAY CAUSE INFLAMMATION AND OCCASIONALLY ULCERATION OF THE NOSE, THROAT OR LARYNX, BRONCHITIS, PNEUMONIA, PALPITATIONS AND HEADACHE. HIGHER CONCENTRATIONS MAY CAUSE NECROSIS OF THE TRACHEAL AND BRONCHIAL EPITHELIUM, NASOSEPTAL PERFORATION, ATELECTASIS, EMPHYSEMA, DAMAGE TO PULMONARY BLOOD VESSELS AND LESIONS OF THE LIVER AND OTHER ORGANS. DEATH MAY BE DUE TO LARYNGEAL SPASM, BRONCHOPNEUMONIA OR PULMONARY EDEMA, 1300-2000 PPM MAY BE DANGEROUS, EVEN ON BRIEF EXPOSURES. REPRODUCTIVE EFFECTS HAVE BEEN REPORTED IN .ANIMALS.

EFFECTS OF OVEREXPOSURE - INHALATION CHRONIC: REPEATED OR PROLONGED EXPOSURE MAY CAUSE EROSION AND DISCOLORATION OF EXPOSED TEETH, CHRONIC BRONCHITIS AND GASTRITIS.

EFFECTS OF OVEREXPOSURE ... INGESTION: HYDROGEN CHLORIDE (HYDROCHLORIC ACID): CORROSIVE.

EFFECTS OF OVEREXPOSURE - INGESTION ACUTE: INGESTION OF THE ACID MAY

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CAUSE BURNS OF THE MOUTH, THROAT, ESOPHAGUS AND STOMACH WITH CONSEQUENT PAIN, UNEASINESS, NAUSEA, SALIVATION, VOMITING, DIARRHEA, CHILLS, SHOCK AND INTENSE THIRST, NEPHRITIS, FEVER AND PERFORATION OF THE INTESTINAL TRACT, AND CIRCULATORY CALLIOPES MAY OCCUR. DEATH MAY BE DUE TO ESOPHAGEAL OR GASTRIC NECROSIS.

EFFECTS OF OVEREXPOSURE - INGESTION CHRONIC: NO DATA AVAILABLE.

#### SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - SKIN: REMOVE CONTAMINATED CLOTHING. AND SHOES INMEDIATELY. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (AT LEAST 15-20 -MINUTES). IN CASE OF CHEMICAL BURNS, COVER AREA WITH STERILE, DRY DRESSING. BANDAGE SECURELY, BUT NOT TOO TIGHTLY. GET MEDICAL ATTENTION IMMEDIATELY.

EMERGENCY FIRST AID PROCEDURES - EYES: WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (AT LEAST 15-20 MINUTES). CONTINUE IRRIGATING WITH NORMAL SALINE UNTIL THE PH HAS RETURNED TO NORMAL (30-60 MINUTES), COVER WITH STERILE BANDAGES. GET MEDICAL ATTENTION IMMEDIATELY.

EMERGENCY FIRST AID PROCEDURES - INHALATION: REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY, IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. MAINTAIN AIRWAY AND BLOOD PRESSURE AND ADMINISTER DXYGEN IF AVAILABLE. KEEP AFFECTED PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY, ADMINISTRATION OF OXYGEN SHOULD BE PERFORMED BY QUALIFIED PERSONNEL. GET MEDICAL ATTENTION IMMEDIATELY. EMERGENCY FIRST AID PROCEDURES - INGESTION: DO NOT USE GASTRIC LAVAGE OR EMESIS. DILUTE THE ACID IMMEDIATELY BY DRINKING LARGE QUANTITIES OF WATER OR MILK. IF VOMITING PERSISTS, ADMINISTER FLUIDS REPEATEDLY. INGESTED ACID MUST BE DILUTED APPROXIMATELY 100 FOLD TO RENDER IT HARMLESS TO TISSUES. MAINTAIN AIRWAY AND TREAT SHOCK (DREISBACH, HANDBOOK OF POISONING, 12TH ED.). GET MEDICAL ATTENTION IMMEDIATELY. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO HELP PREVENT ASPIRATION.

SECTION 4 - OTHER INFORMATION: ANTIDOTE: NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

#### SECTION 05: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5). FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT F 5800.5).

SPECIAL FIRE FIGHTING PROCEDURES: MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO FLAMES UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE 40). EXTINGUISH USING AGENTS SUITABLE FOR TYPE OF FIRE. USE FLOODING AMOUNTS OF WATER AS FOG. COOL CONTAINERS WITH FLOODING AMOUNTS OF WATER, APPLY FROM AS FAR A DISTANCE AS POSSIBLE. AVOID BREATHING CORROSIVE VAPORS, KEEP UPWIND.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

NFPA CODES:

NFFA FLAMMABILITY CODE =

0

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NFPA HEALTH CODE = NEPA REACTIVITY CODE =

SECTION 5 - OTHER INFORMATION: CERCLA RATINGS: HEALTH=3, FIRE=0, REACTIVITY=1.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: SOIL SPILL: DIG HOLDING AREA SUCH AS LAGOON, FOND OR FIT FOR CONTAINMENT. DIKE FLOW OF SPILLED MATERIAL USING SOIL OR SANDBAGS OR FOAMED BARRIERS SUCH AS POLYURETHANE OR CONCRETE. USE CEMENT POWDER OR FLY ASH TO ABSORB LIQUID MASS. NEUTRALIZE SPILL WITH SLAKED LIME, SODIUM BICARBONATE OR CRUSHED LIMESTONE. // AIR SPILL: KNOCK DOWN VAPORS WITH WATER SPRAY. KEEP UPWIND. WATER USED TO KNOCK DOWN VAPORS MAY BECOME CORROSIVE OR TOXIC AND SHOULD BE CONTAINED PROPERLY FOR LATER DISPOSAL. // WATER SPILL: NEUTRALIZE WITH AGRICULTURAL LIME, SLAKED LIME, CRUSHED LIMESTONE, OR SODIUM BICARBONATE. // OCCUPATIONAL SPILL: DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. FOR SMALL SPILLS, TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL. FOR SMALL DRY SPILLS, WITH CLEAN SHOVEL PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER. MOVE CONTAINERS FROM SPILL AREA. FOR LARGER SPILLS, DIKE FAR AHEAD OF SPILL FOR LATER DISPOSAL. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY.

SECTION OT: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: OBSERVE ALL FEDERAL, . STATE AND LOCAL REGULATIONS WHEN STARING OR DISPOSING OF THIS SUBSTANCE. PROTECT AGAINST PHYSICAL DAMAGE. STORE IN COOL, WELL-VENTILATED PLACE, SEPARATED FROM ALL OXIDIZING MATERIALS (NFPA 49, HAZARDOUS CHEMICALS DATA, 1975). STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

SECTION 03: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES AND A FACESHIELD TO PREVENT CONTACT WITH THIS SUBSTANCE.

SKIN PROTECTION: EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBILITY OF SKIN CONTACT WITH THIS SUBSTANCE.

RESPIRATORY PROTECTION: THE FOLLOWING RESPIRATORS ARE RECOMMENDED BASED ON INFORMATION FOUND IN THE PHYSICAL DATA, TOXICITY AND HEALTH EFFECTS SECTIONS. THEY ARE RANKED IN ORDER FROM MINIMUM TO MAXIMUM RESPIRATORY PROTECTION. THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED AN CONTAMINATION LEVELS FOUND IN THE WORK PLACE, MUST BE BASED ON THE SPECIFIC OPERATION, MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR AND MUST BE JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY AND HEALTH ADMINISTRATION (NIOSH-MSMA). THE FOLLOWING RESPIRATORS ARE RECOMMENDED BASED ON INFORMATION FOUND IN THE PHYSICAL DATA, TOXICITY AND HEALTH EFFECTS SECTIONS. THEY ARE RANKED IN ORDER FROM MINIMUM TO MAXIMUM RESPIRATORY PROTECTION. THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED AN CONTAMINATION LEVELS FOUND IN THE WORK FLACE, MUST BE BASED ON THE SPECIFIC OPERATION, MUST NOT EXCEED THE WORKING LIMITS OF THE

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RESPIRATOR AND MUST BE JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY AND HEALTH ADMINISTRATION (NIOSH-MSMA). HYDROGEN CHLORIDE (HYDROCHLORIC ACID): 50 PPM: ANY SUPPLIED-AIR RESPIRATOR. ANY SELF-CONTAINED DREATHING APPARATUS. ANY CHEMICAL CARTRIDGE RESPIRATOR WITH CARTRIDGES PROVIDING PROTECTION AGAINST HYDROCHLORIC ACID. 100 FPM: ANY SUPPLIED-AIR RESPIRATOR OPERATED IN A CONTINUOUS FLOW MODE. ANY SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE. ANY SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE. ANY AIR-PURIFYING, FULL-FACEPIECE RESPIRATOR (GAS MASK) WITH A CHIP-STYLE, FRONT-, OR BACK- MOUNTED CANISTER PROVIDING PROTECTION AGAINST HYDROCHLORIC ACID. ANY CHENICAL CARTRIDGE RESPIRATOR WITH A FULL FACEFIECE AND CARTRIDGES PROVIDING PROTECTION AGAINST HYDROCHLORIC ACID. ANY POWERED, AIR-PURIFYING RESPIRATOR WITH CARTRIDGES PROVIDING PROTECTION AGAINST HYDROCHLORIC ACID. ESCAPE: ANY AIR-PURIFYING, FULL FACEPIECE RESPIRATOR (GAS MASK) WITH A CHIN-STYLE, FRONT- OR BACK-MOUNTED ACID GAS CANISTER. ANY APPROPRIATE ESCAPE-TYPE SELF-CONTAINED BREATHING APPARATUS. FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS: ANY SELF-CONTAINED BREATHING AFFARATUS THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE. ANY SUPPLIED-AIR RESPIRATOR THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MADE IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

VENTILATION: PROVIDE LOCAL EXHAUST VENTILATION SYSTEM TO MEET PUBLISHED EXPOSURE LIMITS.

PERSONAL PROTECTIVE EQUIPMENT: WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES AND/OR SKIN MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN CYE WASH FOUNTAIN AND QUICK DRENCH SHOWER WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

SECTION 8 - OTHER INFORMATION: HYDROGEN CHLORIDE: 10 FPM (15.4 MG/N3)DFG MAK 5 MINUTE PEAK, MOMENTARY VALUE, 8 TIMES/SHIFT // MEASUREMENT METHOD: SILICA GCL TUBE; SODIUM BICARBONATE/SODIUM CARBONATE; ION CHROMATOGRAPHY; (NIOSH VOL. III # 7903, INORGANIC ACIDS).

PROTECTIVE GLOVES (SPECIFY TYPE): RUBBER EMPLOYEE MUST WEAR AMPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE. RUBBER NITRILE, NEOPRENE, VITON OR HYPHALON GLOVES RECOMMENDED.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

BOILING FOINT TEMPS: = 196.00C/ 384.00F

SPECIFIC GRAVITY VALUES: = 1.2000

VAPOR DENSITY VALUES: = 1.3000 VAPOR PRESSURE TEXT: NOT AVAILABLE

SOLUBILITY IN WATER TEXT: SOLUBLE

PH NUMBER SOLUTION VALUES: = 1.1000 PH NUMBER SOLUTION TEXT: (0.1 N)

APPEARANCE: COLORLESS OR SLIGHTLY YELLOW FUMING LIQUID

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ODOR: PUNGENT ODOR.

MOLECULAR WEIGHT VALUES: = 36.4600

SECTION 10: STABILITY & REACTIVITY

STABILITY - TEXT: REACTS EXOTHERMICALLY WITH WATER OR STEAM TO PRODUCE . TOXIC AND CORROSIVE FUMES.

INCOMPATIBLE MATERIALS: HYDROGEN CHLORIDE (HYDROCHLORIC ACID): ACETIC ANHYDRIDE: VIOLENT REACTION. // ALCOHOLIC HYDROGEN CYANIDE: EXPLOSIVE REACTION. // ALUMINUM: EXPLOSION. // ALUMINUM-TITANIUM ALLOYS: IGNITES OR INCANDESCES WHEN HEATED. // 2-AMINOETHANOL: VIOLENT REACTION. // AMMONIUM HYDROXIDE: VIOLENT REACTION. // BASES: VIOLENT REACTION. // BRASS: CORRODES. // BRONZE: CORRODES. // CALCIUM CARBIDE: REACTS WITH INCANDESCENCE. // CALCIUM HYPOCHLORITE: IGNITION. // CESIUM ACETYLENE: IGNITES ON CONTACT. // CHLORINE + DINITROANILINES: VIGOROUS REACTION WITH RELEASE OF FLAMMABLE HYDROGEN GAS FUMES. // CHLOROSULFONIC ACID: VIOLENT REACTION. // 1,1-DIFLUOROETHYLENE: EXTREMELY EXOTHERMIC DECOMPOSITION REACTION. // DOWICIL 100: DECOMPOSES. // ETHYLENE DIAMINE: VIOLENT REACTION. // ETHYLENE IMINE: VIOLENT REACTION. // FLUORINE: IGNITES ON CONTACT. // HEXALITHIUM DISILICIDE: INCANDESCES. // IRON: CORRODES WITH EVOLUTION OF FLAMMABLE HYDROGEN GAS. // MAGNESIUM BORIDE: PRODUCES A SPONTANEOUSLY FLAMMABLE GAS. // MERCURIC SULFATE: VIOLENT REACTION AT 125 C. // METAL ACETYLIDES: VIOLENT REACTION. // METALS: SEVERE CORROSION WITH EVOLUTION OF FLAMMABLE HYDROGEN GAS. // OLEUM: VIOLENT REACTION. // OXIDIZERS (STRONG): VIOLENT REACTION. // OXYGEN + PLATINUM: IGNITES ON CONTACT. // PERCHLORIC ACID: VIOLENT REACTION. // PLASTICS, RUBBER, COATINGS: ATTACKS. // POTASSIUM PERMANGANATE: EXPLOSION HAZARD. // BETA-PROPIOLACTONE: VIOLENT REACTION. // PROPYLENE OXIDE: VIOLENT REACTION. // RUBIDIUM ACETYLENE: IGNITES ON CONTACT. // SILICA (GEL): INCOMPATIBLE. // SODIUM: VIGOROUS OR EXPLOSIVE REACTION. // SULFURIC ACID: EXPLOSIVE REACTION WITH RELEASE OF TOXIC HYDROGEN CHLORIDE GAS. // TETRASELENIUM TETRA NITRIDE: EXPLODES AN CONTACT. // VINYL ACETATE: VIOLENT REACTION.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY RELEASE CORROSIVE HYDROGEN CHLORIDE.

MAZARDOUS FOLYMERIZATION TEXT: HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

SECTION 11: TOXICOLOGICAL INFORMATION 

TOXICOLOGICAL DATA UNLIMITED TEXT: LOCAL EFFECTS: CORROSIVE-INHALATION, SKIN, EYE AND INGESTION. ACUTE TOXICITY LEVEL: MODERATELY TOXIC BY INHALATION, INGESTION. TARGET EFFECTS: NO DATA AVAILABLE.

EYE EFFECTS: HYDROGEN CHLORIDE (HYDROCHLORIC ACID); IRRITATION DATA: ANHYDROUS: 100 MG RINSED EYE---RABBIT MILD. HYDROCHLORIC ACID: 5 -MG/30 SECONDS RINSED EYE-RABBIT MILD.

ACUTE DRAL EFFECTS: DRAL-RABBIT LOSO; 1449 MG/KQ INTRAPERITONEAL-MOUSE LD30; 81 MG/KG UNREPORTED---MAN LDLO

ACUTE INHALATION EFFECTS: HYDROGEN CHLORIDE (ANHYDROUS GAS): 4701

FID: 00187670 VER DATE: 1991-07-02

## C H E M I S T R I MATERIAL SAFETY DATA SHEET

DATE: 06/12/9: TIME: 15:29:2

AGE: 7

PPM/30 MINUTES INHALATION-RAT LC50,: 2644 PPM/30 MINUTES INHALATION-MOUSE LC50, MONOHYDRATE: NO DATA AVAILABLE. DEHYDRATE: NO DATA AVAILABLE. TRIHYDRATE: NO DATA AVAILABLE. HEXAHYDRATE: NO DATA AVAILABLE. HYDROGEN CHLORIDE (AEROSOL): 666 PPM/30 MINUTES INHALATION-MOUSE LC50. HYDROCHLORIC ACID: 1300 PPM/30 MINUTES INHALATION-HUMAN LCLO; 3000 PPM/5 MINUTES INHALATION-HUMAN LCLO; 3124 PPM/1 HOUR INHALATION-RAT LC50; 1108 PPM/1 HOUR INHALATION-MOUSE LC50; 4413 PPM 130 MINUTES INHALATION-RABBIT LCLO; 4413 PPM/30 MINUTES INHALATION-GUINEA PIG I-CLA; 900 MG/KG.

CARCINOGENICITY: HUMAN INADEQUATE EVIDENCE, ANIMAL INADEQUATE EVIDENCE (IARC GROUP).

MUTAGENICITY: MUTAGENIC DATA (RTECS); REPRODUCTIVE EFFECTS DATA (RTECS).

#### SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: DISPOSAL MUST BE IN ACCORDANCE WITH STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE, 40 CFR 262, EPA HAZARDOUS WASTE NUMBER D002. 100 POUND.

SECTION 13 - OTHER INFORMATION: CONDITIONS TO AVOID: MAY BURN BUT DOES NOT IGNITE READILY. FLAMMABLE, POISONOUS GASES MAY ACCUMULATE IN TANKS AND HOPPER CARS. MAY IGNITE COMBUSTIBLES (WOOD, PAPER, OIL, ETC.).

#### SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION: U.S. DEPARTMENT OF TRANSPORTATION SHIPPING NAME-10 NUMBER, 49 CFR 172.101: HYDROCHLORIC ACID, SOLUTION-UN 1789. // U.S. DEPARTMENT OF TRANSPORTATION HAZARD CLASS OR DIVISION, 49 CFR 172.101: 8 - CORROSIVE MATERIAL. // U.S. DEPARTMENT OF TRANSPORTATION PACKING GROUP, 49 CFR 172.101: PG II. // U.S. DEPARTMENT OF TRANSPORTATION LABELING REQUIREMENTS, 49 CFR 172.101 AND SUBPART E; CORROSIVE. // U.S. DEPARTMENT OF TRANSPORTATION PACKAGING AUTHORIZATIONS: EXCEPTIONS: 49 CFR 173.154. // NON-DULK PACKAGING: 49 CFR 173.202. // BULK PACKAGING: 49 CFR 173.242. // U.S. DEPARTMENT OF TRANSPORTATION QUANTITY LIMITATIONS 49 CFR 172,101: PASSENGER AIRCRAFT OR RAILCAR: 1 1. // CARGO AIRCRAFT ONLY: 30 1

TDG CLASSIFICATION: REGULATED

# SECTION 15: REGULATORY INFORMATION

SECTION 15 - OTHER INFORMATION: HYDROGEN CHLORIDE: 500 POUNDS SARA SECTION 3040 THRESHOLD PLANNING QUANTITY (GAS). // HYDROGEN CHLORIDE: 5000 POUND SARA SECTION 304 REPORTABLE QUANTITY (GAS). // 5000 POUNDS OSHA PROCESS SAFETY MANAGEMENT THRESHOLD QUANTITY (GAS). // SUBJECT TO SARA SECTION 313 ANNUAL TOXIC CHEMICAL RELEASE REPORTING

# Attachment B

# Sample Written Notification

On plant letterhead

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Date:

SAMPLE

Duty Officer National Response Center Commandant G-TGC-2 2100 Second St. SW Washington D.C., 20593

RE: Report No.\_\_\_\_

Dear Duty Officer \_\_name

This letter confirms the telephone notification made by <u>name</u> on <u>date</u> at <u>time</u>. Additional notifications were also made to <u>state</u> and <u>local</u> <u>agencies</u> immediately following the call to you.

On October 1, 1893, at 10:00 am two barrels of oil were spilled during unloading at the General Motors Horseless Carriage Assembly Plant. The oil flowed to the nearest storm basin which drains into the Call Drain. Responding personnel immediately used shovels, sandbags and a boom to prevent oil from reaching the Flint River.

The amount of oil remaining in the ruptured barrels was approximately 50 gallons. The amount of oil contained and recovered from the spill site was approximately 10 gallons. It is estimated that approximately 40 gallons reached Call Drain. The recovered oil will be shipped to a reclamation center across town.

Neighboring cattle ranchers were notified of the incident and advised not to allow their animals near the Call Drain until General Motors and its contractors can completely remediate the site. General Motors will continue to monitor Call Drain and Flint River on a daily basis. Cleanup personnel will be available during the next rain event.

The following information summarizes the report as given to Duty Officer name.

Name of person reporting incident:

Thomas Q. Edison

Name, address and identification number of facility:

General Motors - Horseless Carriage Assembly 2238 W. Bristol Rd. Flint, MI. 48553

Phone number where person reporting the spill can be reached:

810-555-4450

Date, time and location of incident:

October 1, 1893 10:00 am North of assembly plant next to powerhouse.

Quantity and type of material released:

Approximately 50 gallons of oil

Extent of injuries, if any: None

Brief description of incident, nature of hazardous material involvement, and possible threats to human health and the environment outside the facility:

See narrative on page 1 of this report.

The following corrective actions will be implemented immediately. A review of the standard operating procedures will be reviewed with all loading/unloading personnel. General Motors will place containment equipment near material transfer areas.

If you have any questions or concerns relative to this matter, please contact plant environmental engineer at phone number.

Thank you for your attention to this matter.

Sincerely,

Plant Manager



120 6.0

# Attachment C

Spill Report Form

### GM POWERTRAIN BEDFORD PLANT

## \* INDICATES REVISION

### REVISER Kim Dobosenski

## **EMERGENCY RESPONSE**

#### \*Internal Spill/Release Report

America Opino Acresse Report

FORM NO. 5523-10(A)

DATE ISSUED 9/24/98

**REVISION #1** 

**REVISION DATE: 1/19/99** 

Environmental Audit Report: Privileged Information

PAGE 1 OF 1

### \*TO BE COMPLETED BY SECURITY AND/OR ENVIRONMENTAL PERSONNEL

Name, Phone Number of Caller:				
GM Employee? Yes No If No, Identify				
2. Date and Time of Call:				
3. Date and Time of Incident (Estimate):				
4. Exact Location of Incident:				
5. Type of Incident Being Reported:				
Spill Fire Explosion Other				
6. Discharge to : Interior Bldg Exterior Containment				
Sewer System Surface Water Atmospheric Release				
Ground Other				
7. Did the material leave GM Property?: Yes No Unknown				
8. Types (or name) of materials involved (if known, be specific):				
9. Quantities of materials involved (Estimate):				
10. What is the source of the spill?:				
10. What is the source of the spin?.				
11. Is material continuing to be released?:				
The final containing to be released.				
12. What actions, if any, have been taken to contain or clean up materials?:				
72. What actions, it any, have been when to contain or clean up materials?.				
13. Any Injuries?:				
13. Auty injuries r.				
*ENVIRONMENTAL USE ONLY				
14. Did the Release Plan and any applicable emergency response procedures appropriately address the Incident?: Yes No If No, explain deficiency (use back of form if necessary):				
Explain necessary revisions to the Plan to address future Incidents (use back of form if necessary):				
, , , , , , , , , , , , , , , , , , ,				
Print Name: Time:				
Signature: Date:				

<sup>\*</sup>Note: If this form was initiated by Security Personnel, please submit to the Environmental Department for completion and record retention.

## GM POWERTRAIN BEDFORD PLANT

# \* INDICATES REVISION REVISER

## **EMERGENCY RESPONSE**

## External Spill/Release Report

FORM NO. 5523-10(C)

DATE ISSUED 1/22/99

**REVISION #0** 

**REVISION DATE:** 

Environmental Audit Report: Privileged Information

PAGE 1 OF 2

TOI	BE COMP	LETED	BY ENV	IRONME	NTAL	PERSONNEL	ONLY
-----	---------	-------	--------	--------	------	-----------	------

Division NAO: X Other: I Plant Name: GMPT Bedford Plant Address:		• – •
Reported to Agencies By:	Report D	Date/Time:
Phone Number: Names of P		
Date of Incident: Time (am/pm):	Released During Production	on Hours (yes / no / unk.):
Duration of Release ( <i>minutes, hours, days, etc.</i> ):  CHRIS Code: How Discover		
Location of Loss Material (be specific): Bldg #: Outside of Plant (be specific):		· · · · · · · · · · · · · · · · · · ·
Amount Spilled/Released:	Concent	tration:
Reportable Quantity (in pounds): Exce	eded RQ (yes/no): RQ	Substance:
Receiving Stream:	<del></del>	
Describe the event (include the type of equipment	nt and other details):	
Describe weather condition (precipitation, wind, to	emperature, and other details):	
Spill /Release Reached (check applicable):		
1) Storm Sewer: GM Non GM	2) Surface Water: GM _	Non-GM
3) Sanitary Sewer: GM Non GM	4) Combined Sewer. GM_	Non-GM
5) Publicly owned Treatment Works:	6) Groundwater:	7) Soil:
		.,



## GM POWERTRAIN BEDFORD PLANT

# \* INDICATES REVISION REVISER

## **EMERGENCY RESPONSE**

## External Spill/Release Report

FORM NO. 5523-10(C)
DATE ISSUED 1/22/99
REVISION # 0

**REVISION DATE:** 

Environmental Audit Report: Privileged Information

PAGE 2 OF 2

	n: contained (yes/no): ntainment/effort made:	<del></del>		<del>-</del>	
		ate amount of material k			<del></del>
IMMEDIA	ATE Notification:	Report for Inform	ation Only (r	o RQ exceeded	a):
Agency	Contact Person	Phone Number	Date	Time	Report Number
NRC:					
State:					
Local:					
GM NOTIFIC Department	CATION:  Contact Person	Phone #	Date	Time	Report Number
Plant Manage	er:				
GM Legal:					
GM EES:					
DAS/NAO Di	v.:				
Plant PR:		· · · · · · · · · · · · · · · · · · ·			
Division PR:					

## Attachment D

## **GM Procedures for Disposal of Wastes**

Note: This attachment may <u>not</u> contain the most current versions of these procedures! Before using the procedures verify with the Plant Master List of Procedures that these procedures are current. If not, obtain a current copy from the Quality Department or the shared "S" drive (S:\QS9000sn), which is available on most computers within the facility.

**BEDFORD PLANT** 

\* INDICATES REVISION

REVISER: <u>Ken Hackney</u> Requested By: R. Simmerman

## STANDARD PROCEDURE

\*STORAGE AND DISPOSAL OF USED FLUIDS AND OILS

<u> EUNICONSEROIS DE DECORY, S</u>

Quality Wins

PROC. NO. 5533-18

DATE ISSUED 9-8-76

**REVISION#9** 

**REVISION DATE 6/5/00** 

PAGE 1 OF 3

#### **PURPOSE:**

\*Used fluids from plant sources may be recycled or may contain regulated contaminates requiring disposal in accordance with applicable local, state and federal regulations. This procedure provides a safe and structured method for proper transporting, storage and disposal of used fluids, hydraulic oils, cutting fluids and lubricants at the Bedford Plant.

#### **SCOPE:**

\*This procedure applies to all used hydraulic fluids, oils and lubricants. In addition, all used fluids removed from plant machinery and reservoirs are covered by this procedure.

### **RESPONSIBILITY:**

\*The PC&L and the Environmental Management Departments, working with the Resource Management Team, have direct responsibility as outlined in this procedure. All other departments must meet the requirements of this procedure for Storage and Disposal of Used Fluids and Oils.

## **POCUMENT CONTROL:**

Document

Location

Retention

Proc 5533-18

**Document Control Center** 

5 years from obsolescence

#### **REFERENCES:**

Procedure 5533-14, Compliance with DOT and EPA Material Shipping Regulations for Hazardous Materials Job Instruction 5581-05, Waste Stream Inspections CFR Title 49

## PROCEDURE:

- \*1.0 Any person having used fluid for disposal should take the material to one of the locations established for the temporary storage of used fluids and transfer the fluid into the appropriate container.
- \*2.0 Any person having a question concerning *used* fluid disposal that is not answered in this procedure should contact the Resource Management Team @ 7144.
- 3.0 Different types of fluids are not to be mixed within containers. Example: Water base fluids such as hydraulic fluid should not be mixed with mineral based fluids such as motor oil.
- \*4.0 Used fluids, at the Bedford Plant, have been defined and segregated into two types with a corresponding color code.
  - 4.1 MINERAL BASE FLUIDS YELLOW
  - \*4.2 GLYCOL BASE FLUIDS / WATER BASE FLUIDS BLACK

BEDFORD PLANT

\* INDICATES REVISION

REVISER: <u>Ken Hackney</u> Requested By: R. Simmerman

## STANDARD PROCEDURE

\*STORAGE AND DISPOSAL OF USED FLUIDS AND OILS

# THINGONERO HEDDEORY

Quality Wins

PROC. NO. 5533-18

**DATE ISSUED 9-8-76** 

**REVISION#9** 

**REVISION DATE 6/5/00** 

PAGE 2 OF 3

- \*5.0 It will be the responsibility of the Resource Management Team to insure each drum is labeled before placing in the temporary used fluid storage locations.
  - \*5.1 The label must be placed on the upper one-third of the container covering any existing, identification, but not on the lid. Standard labels for each of the *two* fluid types are maintained by the Resource Manager.
  - 5.2 All drums containing mineral based fluids are labeled "USED OIL".
- \*6.0 A PC&L truck driver will be assigned to check each temporary used fluid storage locations daily.
  - 6.1 When a funnel has been moved from the front drum on the pallet to the rear drum on the pallet and the bung has been replaced in the front drum, this will constitute a "pull signal" for the driver from PC & L to take the full drum to the designated waste management area.
  - 6.2 PC&L is responsible to replace the full drum with a properly labeled empty drum on the waste containment pallet. The empty drum will be placed on the rear of the pallet and the drum being filled moved to the front position on the pallet.
  - \*6.3 All used fluids will be held within the designated waste management storage area on waste containment pallets.
- \*7.0 The environmental coordinator or designated representative will determine the proper method of disposal / recycling and the appropriate disposition site for removal of used oils and fluids from the plant premises.
  - \*7.1 Mineral based fluids will be held within designated storage areas until shipped.
  - \*7.2 Glycol and water base fluids will be delivered to the wastewater treatment facility on site.
- \*8.0 Analytical analysis to support the waste characterization of the used fluids is to be performed at least annually by the Resource Management Team.
- \*9.0 Shipment of used fluids must be in compliance with the P C & L procedure 5533-14, Compliance with DOT and EPA Material Shipping Regulations for Hazardous Materials, which includes requirements of the Hazardous Materials Shipping Act and CFR TITLE 49.

BEDFORD PLANT

\* INDICATES REVISION

REVISER: <u>Ken Hackney</u> Requested By: R. Simmerman

## STANDARD PROCEDURE

\*STORAGE AND DISPOSAL
OF
USED FLUIDS AND OILS

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PROC. NO. 5533-18

DATE ISSUED 9-8-76

**REVISION #9** 

**REVISION DATE 6/5/00** 

Quality Wins

PAGE 3 OF 3

APPROVED BY:	
~	
ENVIRONMENTAL SYSTEMS MANAGER	DATE
P C & L MANAGER	DATE

**BEDFORD PLANT** 

\*INDICATES REVISION

## STANDARD PROCEDURE

DISPOSAL

OF

SOLID WASTE

PROC. NO. 5533-28

DATE ISSUED 6/21/82

**REVISION #12** 

**REVISION DATE 12/14/00** 

REVISER: Ken Hackney
Requested By: R.Simmerman

UNCONTROLLED COPY

ENVIRONMENTAL AUDIT REPORT: PRIVILEGED INFORMATION

PAGE 1 OF 6

#### **PURPOSE:**

To identify a safe and structured method for proper collection, segregation, transportation and disposal of solid waste material and to support waste minimization and recycling.

## **SCOPE:**

Any solid waste material generated by the facility.

## **RESPONSIBILITY:**

P C & L - 5533

Maintenance - 5534

Environmental Engineering- 5581

Resource Management Team

All departments generating solid waste.

## **DOCUMENT CONTROL:**

Document	Location	Retention

Proc 5533-28 Solid Waste Disposal Matrix Form 5533-28 (A) Document Control Center Environmental Engineering

5 years from obsolescence until obsolescence

#### **REFERENCE:**

Procedure 5533-32 Storage, Handling, and Disposal of Chip System Afterburner Material and Baghouse Dust Environmental Job Instruction 5581-05, Waste Stream Inspections

Procedure 5581-08 Waste Minimization Procedure

Procedure 5532-04 Concrete and / or Soil Removal

Maintenance Department Job Instruction 5534-4003, Handling or Waste Lamps, Bulbs, and Aerosol cans

PC&L Job Instruction 5533-61, Control of Aerosol Cans Within the Bedford Plant

Procedure 5533-18 Storage and Disposal of Used Fluids and Oils

**BEDFORD PLANT** 

\*INDICATES REVISION

## STANDARD PROCEDURE

<u>DISPOSAL</u> <u>OF</u> SOLID WASTE PROC. NO. 5533-28

DATE ISSUED 6/21/82

**REVISION #12** 

**REVISION DATE 12/14/00** 

REVISER: Ken Hackney
Requested By: R.Simmerman

ENVIRONMENTAL AUDIT REPORT: PRIVILEGED INFORMATION

PAGE 2 OF 6

## **PROCEDURE:**

- 1.0 Each department will be responsible for establishing and maintaining a fixed location designated for solid waste collection.
  - 1.1 P C & L is responsible for maintaining solid waste management areas in all departments except maintenance.
  - 1.2 Each department is responsible for the housekeeping in the area where the solid waste hoppers are located.
- 2.0 It is the responsibility of each department to insure that liquid waste is NOT in containers/hoppers designated for solid waste. If free liquid is observed in any solid waste container, it must be reported to the Resource Management Team for proper disposition.
- 3.0 Every employee in the plant has the opportunity and should be encouraged to play an active role in minimizing the environmental impact of solid waste disposal by placing solid waste material in the appropriate container as defined by the waste management sign and/or color code.
- 4.0 It is the responsibility of the PC&L Department to develop and maintain signs and color code standards for each identified solid waste stream as appropriate.
- 5.0 The Solid Waste Disposal Matrix 5533-28(A) identifies the various solid wastes and the appropriate disposal / recycling facilities where the materials are to be sent. This matrix is maintained by the Environmental Engineering Staff.
- 6.0 Concrete / soil demolition material shall be tested and disposed of in accordance with Procedure 5532-04 Concrete and / or Soil Removal.
- 7.0 Chip System afterburner material and chip system dust collect bags must be handled in accordance with Procedure 5533-32.
- 8.0 Asbestos removed by contractors may be disposed of at sites other than those listed on the 5533-28(A) matrix if disposal is handled by the contracted firm and the location has been approved by the Environmental department.

**BEDFORD PLANT** 

\*INDICATES REVISION

REVISER: Ken Hackney
Requested By: R.Simmerman

## STANDARD PROCEDURE

DISPOSAL

OF

SOLID WASTE

PROC. NO. 5533-28

DATE ISSUED 6/21/82

**REVISION #12** 

**REVISION DATE 12/14/00** 

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ENVIRONMENTAL AUDIT REPORT: PRIVILEGED INFORMATION PAGE 3 OF 6

#### 9.0 Recycling

- 9.1 Fluorescent light bulbs, high pressure sodium lamps, metal halide lamps, mercury vapor and incandescent bulbs are to be handled in accordance with Maintenance Job Instruction 5534-4003.
  - 9.1.1 It is the responsibility of the electricians to place used bulbs, upon removal from operation, in the packaging from which the new, replacement bulbs were removed whenever practicable.
  - 9.1.2 Used bulbs should then be placed in the BLUE containers for recycling universal waste labeled "Used Mercury Containing Lamps". The container lid is to remain closed except when adding or removing bulbs. There are two designated used light bulb storage areas; one in the Pistons Department and one in the electrical element rebuild area.
  - 9.1.3 When full, the Blue containers are to be delivered to the sundry ship area to prepare the bulbs for shipment. Applicable manifesting, packaging, and labeling requirements must be met prior to shipment.
- 9.2 Alkaline, Nickel-Cadmium, and Lithium Batteries are designated as a universal waste.
  - 9.2.1 Used alkaline, Ni-Cd, and Lithium batteries can be placed in the used battery collection containers located at the Ferguson delivery stations for recycling.
  - 9.2.2 Batteries from these collection sites are periodically collected and accumulated in the PC&L department for later shipment to recycling. Applicable manifesting, packaging, and labeling requirements must be met prior to shipment.
- 9.3 Scrap Iron & Steel
  - 9.3.1 Scrap Iron & Steel weighing <u>less</u> than 2000 lbs., copper, brass, etc. are to be collected & segregated in the designated waste management containers for shipment.
  - 9.3.2 Scrap iron and steel weighing <u>more</u> than 2000 lbs. (e.g., die covers, ejectors, etc.) requires special handling and transportation arrangements. Disposal must be approved and coordinated through the PC&L Department & the Resource Management Team.
- 9.4 Lead-acid batteries become a waste stream when removed from fork trucks and other mobile equipment by the garage mechanics.
  - 9.4.1 Garage mechanics are to place used 6V & 12V lead-acid batteries in designated containers provided by PC&L.
  - 9.4.2 Garage mechanics are to notify PC&L when a fork truck battery (36V or 48V) is removed from service and becomes available for shipment.
  - 9.4.3 Applicable manifesting, packaging, and labeling requirements must be met prior to shipment.

**BEDFORD PLANT** 

\*INDICATES REVISION

REVISER: Ken Hackney Requested By: R.Simmerman

## STANDARD PROCEDURE

**OF** SOLID WASTE

**DISPOSAL** 

PROC. NO. 5533-28

DATE ISSUED 6/21/82

**REVISION #12** 

**REVISION DATE 12/14/00** 

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**ENVIRONMENTAL AUDIT REPORT: PRIVILEGED INFORMATION** 

PAGE 4 OF 6

- 9.5 Oil filter disposal
  - **\*9.5.1** All filters must be allowed to sufficiently drain into a recovery unit (no free flowing liquids remaining, 12 hours of draining is recommended) immediately after removal from service. Motor oil filters are to drain "hot" meaning near engine operating temperature and above 60 degrees Fahrenheit.
  - \*9.5.2 Garage mechanics are to crush the drained used motor oil filters using the "oil filter crusher". Draining after crushing is also recommended.
    - 9.5.2.1 Properly drained and crushed used motor oil filters become recyclable steel and are to be placed in the appropriate green hopper for scrap metal.
  - Paper media filters must be placed in a black drum or hopper labeled to accept oil filters (i.e. "Used Oil Filters" drum or "Housekeeping Waste" hopper) after proper draining.
  - 9.5.4 The used oil drained from the filters is to be handled in accordance with procedure 5533-18, Storage and Disposal of Used Fluids and Oils.
- 9.6 Proper Disposal of Aerosol Cans - In order to prevent potentially explosive materials from being charged in our melting furnaces, it is necessary that we maintain control over the usage and disposal of aerosol pressurized spray cans in the plant. (Reference Maintenance Job Instruction 5534-4003 and PC&L Job Instruction 5533-61).
  - 9.6.1 Only materials approved by the HMCC can be used in the plant.
  - 9.6.2 Aerosol cans are distributed on a one for one exchange from PC&L. Additionally, any aerosol cans ready for disposal, full or empty, must be turned in to the PC&L department.
  - 9.6.3 Aerosol cans punctured in the AEROSOLV aerosol can recycling station may be recycled with other scrap steel.
- 9.7 Wood pallet disposal
  - **\*9.7.1** Wood pallets are to be collected and loaded onto a trailer for recycling.
  - 9.7.2 Pallets must be in a condition acceptable for recycling. (i.e., not oil soaked or covered with paint)
- 9.8 Kitchen grease is collected in a special closed semi-bulk dump container located outside, west of the Tool Room, per the recyclers handling requirements.

**BEDFORD PLANT** 

\*INDICATES REVISION

## STANDARD PROCEDURE

DISPOSAL

OF
SOLID WASTE

**ENVIRONMENTAL AUDIT REPORT: PRIVILEGED INFORMATION** 

PROC. NO. 5533-28

DATE ISSUED 6/21/82

**REVISION #12** 

**REVISION DATE 12/14/00** 

REVISER: <u>Ken Hackney</u> Requested By: R.Simmerman

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PAGE 5 OF 6

- 10.0 Any department having a question about any solid waste material and its proper disposition should contact the Resource Management Team @ 7144.
- 11.0 It is the responsibility of the Resource Management Team to conduct testing as necessary on waste materials to properly define waste streams and assist the Environmental Department in completing waste profiles as required for disposal.
- 12.0 It is the responsibility of the Resource Management Team to conduct periodic inspections and maintain appropriate records of these inspections as defined in Job Instruction 5581-05, Waste Stream Inspections.
- 13.0 The Resource Management Team acting under the direction of the Environmental Department has the responsibility to oversee the proper disposition of all Solid Waste materials.

**BEDFORD PLANT** 

\*INDICATES REVISION

REVISER: <u>Ken Hackney</u> Requested By: R.Simmerman

## STANDARD PROCEDURE

DISPOSAL

OF
SOLID WASTE

ENVIRONMENTAL AUDIT REPORT: PRIVILEGED INFORMATION

PROC. NO. 5533-28

DATE ISSUED 6/21/82

**REVISION #12** 

**REVISION DATE 12/14/00** 

erman UNCONTROLLED COPY

PAGE 6 OF 6

Approved By:	
Production Manager	Date
PC & L Manager	Date
Maintenance Systems Manager	Date
Environmental Manager	Date

## Attachment E

## **Bedford Public Relations Guidelines**

Note: This attachment may not contain the most current version of the guidelines! Before using these guidelines verify with the facility Disaster Preparedness Plan that the guidelines are the most current.

## **BUILDING EMERGENCY INFORMATION COORDINATOR**

The Public Relations Coordinator, in conjunction with the Personnel Director, are designated as the Emergency Information Coordinators. These people are responsible for performing the information functions.

## Primary Responsibilities:

- 1. Obtain verified disaster-related information.
- 2. Prepare and issue news statements to the media.
- 3. Establish a media center (as necessary) during a building emergency situation/disaster to coordinate emergency information and brief the media (see emergency numbers, page 42).
- 4. Coordinate with local government authorities to establish a joint public information center (JPIC). Conduct press conferences and issue news statements during an extended or large scale emergency situation.

## Attachment F

## **Inspection Forms**

Note: The inspection forms included in this section are for example purposes only and are not necessarily the most current version. The most current version of the inspection forms can be obtained by contacting the respective department in charge of conducting the inspections.

4

Issue Date: 10/15/98 Revision No: 2 Revision Date: 10/7/99

# Form 5581-05 (A): GMPT - Bedford Weekly Inspection Report for the Waste Storage Area

Location	Waste Management Area						
Procedure 5533-	ger Specifications 18 Storage and Disposal of Waste Fluids an 14 Compliance with DOT and EPA Materia		itions for	Hazardo	us Materials	i.	
<u>Directions</u>	Check each line item listed below that applies. <u>Corrective actions shall be recorded in the space pro</u> at the end of this form.						
	Gene	ral Area					
	<b>C</b> 5		<b>YES</b>	NO			
Are drain grates *Is containment *Is the pad free *Is a spill kit acc	ppearance of the area good?  I clear and free of debris?  pad free of significant cracks or deterioration  of any liquid build-up? (from precipitation/lectessible?  y phone accessible and operable?						
	Drum	Storage					
		_					
	Hazardous Waste drums operly segregated? (Y/N)	Number of emp	ty drums				
Non-Hazardous	s Waste Drums	YES	<u>NO</u> =	No.	N/A		
Are all drums st	cored under a roof?						
*Are all drums i	n good condition and not leaking?						
*Are all drums of							
	abeled and readable?						
*Are all drums p	placed on a containment pad?	<del></del>					
	Cylinder Storage - (Report p	roblems to Safety	y Departi	nent)			
		YES	<u>NO</u> =	No.	N/A		
*Are all cylinder	rs properly stored upright?						
	rs properly secured in place?	<del></del>					
*Are all cylinder							
*Are all cylinder	rs free of any evidence of leakage?				·		
*Are all caps sec	cured on cylinders?						
"GOOD" condit	ion means that the container is not rusted, ha	ve structural defec	cts or leak	: <b>.</b>			
Comments /	priority items. If corrective action is require opportunities for improvement and should be Corrective Actions	reported to the ap	opropriate	departm	nental superv	visor.	
Date of Inspect Time of Inspect Name of Inspec	ion						

.Issue Date: 10/15/98 Revision No: 2 Revision Date: 10/7/99

# Form 5581-05 (B): GMPT - Bedford Weekly Inspection Report for Hazardous Waste

Location	Waste Management Area			
References				
Procedure 534-	4002 Maintenance - Waste Solvent Handling, Storage, and Dispos	sal		
Procedure 5533			azardous	5
<u>Directions</u>	Check each line item below that applies. <u>Corrective actions shall be provided at the end of this form.</u>	recorded i	n the spa	<u>ace</u>
Number of Haz	zardous Waste drums			
		<b>YES</b>	NO	N/A
*Is the storage of	cabinet in good condition?			
	in good condition and not leaking?			
	securely closed?			
	neet DOT/UN specifications?			
	labeled properly as "Hazardous Waste"?			
	ation start date listed on each and less than 90 days?			
	ed 2 foot space been maintained for emergency access to the cabinet?			
Is a spill kit ac				
	uisher accessible?			
	cy phone accessible and operable?			
	g current information posted at the emergency phone?			
	and phone number of the emergency coordinator			
	n of fire extinguishers and spill control material			
	number for fire or other emergencies			
	tion means that the container is not rusted, have structural defects or lea priority items. If corrective action is required, actions should be initiat		liately.	
Comments /	Corrective Actions			
		<del></del>	<del></del>	·····
		·		
			. <del></del>	
Date of Inspe	ection			
Time of Insp				
•				
Name of Insi	pector			

This weekly inspection report shall be retained by the Resource Manager for a minimum of five years or open tax year, whichever is longer.

Issue Date: 10/15/98 Revision No: 2 Revision Date: 10/7/99

### Form 5581-05 (C): GMPT - Bedford Weekly Inspection Report for the Waste Paint Solvent Satellite Accumulation Area

Location	Maintenance Area/Paint Booth	
Reference Resource Manag Procedure 534-40	er Specifications 2002 Maintenance - Waste Solvent Handling, Storage and Disposal Proc	cedures
<u>Directions</u>	Check each line item listed below that applies. Corrective actions shall provided at the end of this form.	be recorded in the space
*Is the drum labe *Does the drum to *Is the drum clos *Is an emergency Is the 7333 eme *Is a spill kit acc. *Is a fire extingu Are all paint boo What percent (e *If full, is the dru "GOOD" conditie  * These are high		d immediately. All other
Comments / (	Corrective Actions	
Date of Inspections of Inspections	ection	

This weekly inspection report shall be retained by the Resource Manager for a minimum of five years or open tax year, whichever is longer.

**BEDFORD PLANT** 

\* INDICATES REVISION

**REVISER:** Tim Galloway

### **JOB INSTRUCTION**

## NPDES Sampling - Specific to GM Powertrain-Bedford

JOB INSTR. NO. 5580-28

DATE ISSUED 6/24/97

**REVISION #5** 

**REVISION DATE 1/8/01** 

Quality Wins

PAGE 1 OF 4

### **PURPOSE**

Detailed sampling requirements beyond the requirements set forth in NPDES Permit IN0003573.

### **SCOPE**

This instruction applies to all sampling of 002 and 003 outfalls.

### **RESPONSIBILITY**

Laboratory personnel and those persons properly trained (operators), etc.

### **DOCUMENT CONTROL**

Document	Location	Retention Period

Job Instr. 5580-28

Waste Water Treatment Facility

5 years from obsolescence

### **DEFINITIONS**

NPDES - National Pollution Discharge Elimination System

### **PROCEDURE**

- 1.0 Samples and measurements taken, first and foremost, must meet the requirements set forth in the NPDES Permit IN0003573.
- 2.0 002 Discharge sampling located in Calgon Building.
  - \*2.1 Composite samples must be started on Sunday, Monday, Tuesday and/or Wednesday to facilitate shipment to contract lab. Short workweeks can affect the availability of the contract lab to perform analysis 3 times per week.
    - \*2.1.1 Start samples at 11:00 a.m. or designated time by initiating automatic composite sampler by pressing "Resume" (#3) on keypad.
    - 2.1.2 Stop sampler by pressing "Halt" (#2) on keypad.

BEDFORD PLANT

\* INDICATES REVISION

**REVISER:** Tim Galloway

### **JOB INSTRUCTION**

### NPDES Sampling - Specific to GM Powertrain-Bedford

JOB INSTR. NO. 5580-28

DATE ISSUED 6/24/97

**REVISION #5** 

**REVISION DATE 1/8/01** 

Quality Wins

PAGE 2 OF 4

- 2.1.3 Transfer sample from composite sample jug to transport jug.
- 2.1.4 Return composite sample to lab or to refrigerator if there will be a delay before shipment.
- 2.2 Grab samples should be taken by laboratory personnel or a properly instructed individual.
  - 2.2.1 Sampling spigot is located on discharge side of GAC vessels.
    - 2.2.1.1 Lines should always be flushed for several minutes before grabbing sample.
    - 2.2.1.2 Sampling line should be cleaned periodically because of algae growth and its sloughing off can affect sample results.
- \*2.3 The 002 outfall should be observed weekly and recorded that such observation was made on Daily Sampling/Shipping form (Form 5580-28(B)). This observation should include a check for proper operation of the defoamer pump and be included on (Form 5580-28(B)).
- 3.0 003 Discharge sampling located at storm lagoon pump station.
  - 3.1 Sampling commences when an overflow alarm alerts operator via computer higher level alarm and/or any additional alarming.
    - 3.1.1 This first sample is the initial sample to contribute to the 24-hour composite.
    - 3.1.2 Additional samples should be taken every four hours while overflow is occurring.
    - 3.1.3 Samples should be labeled with:
      - 3.1.3.1 Exact time

**BEDFORD PLANT** 

\* INDICATES REVISION

**REVISER:** Tim Galloway

### **JOB INSTRUCTION**

### NPDES Sampling - Specific to GM Powertrain-Bedford

**REVISION #5** 

**REVISION DATE 1/8/01** 

DATE ISSUED 6/24/97

JOB INSTR. NO. 5580-28

Quality Wins

PAGE 3 OF 4

- 3.1.3.2 Date
- 3.1.3.3 Height of overflow through the six-foot rectangular weir obtained from staff gauge.
- 3.1.4 Samples taken every four hours <u>must</u> be brought back to treatment facility and placed in temperature-controlled refrigerator (4° C).
- 3.2 Grab samples taken for specific test requirements should be taken in addition to the grabs, which will comprise the source of water for the final composite sample.
  - 3.2.1 Use dipper to fill bottles.
  - 3.2.2 Return samples to lab or refrigerator if not shipping immediately.
- 3.3. Discharge flows must be figured using sample information and the table provided (see Table 6-3B) for six foot rectangular weir, column <u>MGD</u> and column <u>Head in Feet</u>.
- 3.4 The 003 outfall should be observed weekly and recorded that such observation was made in Operator's Notes of Daily Log (Form 5580-28 (A)).

**BEDFORD PLANT** 

\* INDICATES **REVISION** 

**REVISER:** Tim Galloway

### **JOB INSTRUCTION**

NPDES Sampling - Specific to GM Powertrain-Bedford

JOB INSTR. NO. 5580-28

DATE ISSUED 6/24/97

**REVISION #5** 

**REVISION DATE 1/8/01** 

Quality Wins

Date

Approved By:		
	 	_

Wastewater Treatment Manager

**DATE ISSUED: 01/01/87** 

REVISION #1
REVISION DATE: 11/11/98

FORM 5580-28(B)

DAILY SAMPLING/SHIPPING SCHEDULE						INH <sub>[</sub>	OUSE QO RESULTS	C/QA		
	MON	TUE	WED	THUR	FRI	SAT	SUN	LAB RESULTS	CERTIFIED VALUE	DATE-
рН		·								
Conductivity										
002 Observation										
Alkalinity										
Chloride							Y, V	· · ·		
Sulfate										
Nitrate					,					
Nitrite										
Ammonia				<del></del>						·····
D-Phos										
Total						1. 22	10 11 20			
Hardness Ca					1					1
Hardness Mg Hardness			A . /		1 11/37	10.24	<u>रुवा रुव्यक्त</u>	<u> </u>	W. V. V.	<del></del>
Hardness TSS	·			7						
TDS				<del></del>						
<u></u>					<u> </u>		<u> </u>	^ .		
Copper								<b></b>		<del></del>
Lead					<u> </u>		* .			
✓ Zinc			, ,				1,745	·		·
Iron									` `	
COD										
Phenol			` .		¢		`	`	· ·	
TRC							52 7 2 2 2 2			
Fluoride			, ,					, y , , , , , , , , , , , , , , , , , ,	` .	
FOG						-				
MBAS		3	<b>*</b> ^ ^	>	k ( , , &,				Dry s	, e.,
PCB				·						
BOD	A N		1.25		7.8	* * , , , &	1000	A, (		
,	1,414			· ·	S.	. (47)		0.00		
,	7 . * *	;	1 1					Section 1		· · · · · ·

### Waste Water Treat. Int - Daily Log

ZHANGE BULLET	
Total Softener Process	93600 gal
Meter #1	47800 gel
Moter #2	45800 gai
Process Add	O gal
City Add	O gal
Central Res Hardness	120 ppm
Process Hardness	180.00 ppm
City Hardness	200.00 ppm
Chiorine Residual	0,70 ppm
ORP	689,00

North Surge Basin	3.3 ft
South Surge Basin	-1.6 R
North Aeration Holding Besin	20.3 R
South Aveillon Holding Beste	6.5 ft
North Holding Basin	-2.1 R
South Holding Basin	17.3 R
West Thickener	OR
East Thickener	O ft

Education of the second of the	
North Primary	13.0 N
South Primary	13.0 R
Studge Pit Level	7.3 ft
Primary Studge Pumping N.	NO
Primery Studge Pumping S.	NO

chine and a subject of the		
Drewgard 120 (Corrosion Inhibitor)	44.00 in	585.2 gal
Drawchlor 4107 (Sodium Chlorite)	36.00 in	478.8 gal
Draw 61 10 (Sodium Hypochiorite)	99.00 in	1316.7 gal
Drew 6005 (Hydrochloric Acid 30%)	29.00 in	385.7 gal
Polymer Feed	1.00 Setting	
Alum Level	1470 gal	
Ures Feed 3rd Shift	100 lbs	
Ures Feed 1st Shift	100 lbs	•
Urea Feed 2nd Shift	0 lbs	
Alum Feed	20 %	
Uree Feed	0 SPM(%)	

liner, land			
1	1610	5	0005
2	1820	6	0515
3		7	0815
4		8	1220

			- 1
Date:	Time	:	

Marian at			
1	On	4	On
2	Off	5	Off
3	Off	6	Off

	ower @ 0734 / Ures to 20 SPM @ 07	7.40 / Rimi 002 60 1100 Tet /		
	Level 11' 3" / Unplug Urea @ 1230 /		 	
		<del></del>		
<del></del>				
	NAB temp 26.1 c			
7 / 19 / 98				
7/19/98				<del></del>

### Attachment G

### **GM Truck Loading/Unloading Job Instruction**

Note: This attachment may <u>not</u> contain the most current version of this job instruction! Before using the job instruction verify with the PC&L Master List of Documents that this job instruction is current. If not, obtain a current copy from the PC&L Department or the shared "S" drive (S:\Job Instructions\), which is available on most computers within the facility.

#### **BEDFORD PLANT**

\* INDICATES REVISION

REVISER: R.Simmerman

### **JOB INSTRUCTION**

PC&L TANK TRUCK UNLOADING J. I. NO.5533-57

DATE ISSUED 7/14/98

**REVISION #2** 

**REVISION DATE - 1/18/2000** 

ACCEPTANCE CRITERIA (-0-) NON- CONFORMANCES

PAGE 1 OF 2

#### PURPOSE:

To define the various processes required to insure a "zero defect" delivery.

### SCOPE:

This instruction applies to bulk materials received at the Bedford Plant in tank trucks.

### **RESPONSIBILITIES:**

It is the responsibility of applicable personnel when acting as the "receiving agent" and the carrier's driver to abide by the provisions of this instruction.

Document Control:		<u>Document</u>	<u>Location</u>	<u>Retention</u>
		JI 5533-57	PC&L Office	1 year from obsolescence
	*	Receiving Document	Receiving Office/ Chemical Mgmt	2 years
	*	Scale Ticket	Receiving Office / Chemical Mgmi	2 years

### **INSTRUCTION:**

#### 1.0 General

- Unloading of tank trailers will be performed during daylight hours with the following exceptions: Emergency conditions, nitrogen and argon deliveries.
- 1.2 Driver must check in at main Gatehouse to obtain vehicle pass and weigh-in. Scale ticket must be used to document record of this weigh-in.
- 1.3 Driver must insure that tank trailer is accurately spotted for unloading at the proper location.
- 1.4 Tank trucks brakes will be set and the driver must remain with the vehicle during the entire unloading period.
- 1.5 Tank truck flashers are to be utilized during the entire unloading period to signal personnel in the vicinity that the unloading operation is in progress.
- 1.6 Unloading operations shall be performed only by reliable persons properly instructed and made responsible for compliance with applicable regulations.
- 1.7 The following items must be verified by the carrier driver and where appropriate the receiving agent <u>prior</u> to off-loading:
  - Tank trailer number must match the trailer number on the shipping papers to determine contents and avoid mixing of products.
  - The product name on the shipping papers matches the markings on the storage tank/fill line.

#### **BEDFORD PLANT**

### \* INDICATES REVISION

REVISER: R.Simmerman

### **JOB INSTRUCTION**

### PC&L TANK TRUCK UNLOADING

J. I. NO.5533-57

DATE ISSUED 7/14/98

**REVISION #2** 

**REVISION DATE - 1/18/2000** 

#### ACCEPTANCE CRITERIA (-0-) NON- CONFORMANCES

PAGE 2 OF 2

- There is a visible means of measuring the level in the storage tank.
- The storage tank will hold the amount of product being delivered.
- The storage tank is vented.
- If the storage tank is not visible during unloading, the "receiving agent" must be present near the storage tank.
- A connection has been made from the proper tank truck outlet to the proper storage tank.
- Insure that an appropriate catch basin/bucket is available to catch any liquids that may be in the outlet chamber or fill hose during or after unloading is completed.
- 1.8 Open tank outlet valve and proper valves in the unloading line/storage tank.
- 1.9 Start pump (or pressurizing tank) checking to insure there is no leakage at any of the connections.

  Should leakage be present, immediately stop pump (or pressure) and correct conditions as necessary.
- 1.10 After tank unloading is complete, stop pump (or pressure), close all valves, disconnect plant unloading line from tank truck, replace cap to outlet and make all other closures tight.
- 1.11 Tank truck flashers may be shut off, and return to Main Security Gatehouse to get weighed out and process paperwork. Scale ticket must be used to document record of outbound weight. Scale ticket record is used to verify quantity of material received and is to be attached to the receiving document.
- 2.0 Fire Resistant Hydraulic Fluid Delivery
  - 2.1 Upon arrival of tank truck, the receiving checker must notify maintenance that a tank truck has been spotted for unloading.
  - 2.2 A receiving inspection will be performed by the machine repair/fluid management personnel.
  - 2.3 The results of the receiving inspection will be communicated to the truck driver. If the fluid is OK, the unloading process can begin, if the material is rejected it will be returned to the supplier.
- 3.0 Flammable Liquid (Gasoline) Delivery
  - 3.1 The unloading of flammable liquid poses additional hazard potential which must be addressed.
  - In addition to the general requirements outlined in this instruction, delivery personnel must follow the provisions of the Mullis petroleum, "Procedures and Requirements for Drivers Delivering Gas and Fuel to GM Powertrain Bedford", dated 6/23/98, labeled as Attachment1 to this job instruction.

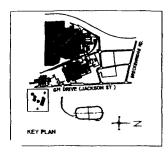
Approved by:	
	•
en Supervisor PC & L	Date



		KEY	
L.A	TORNADO SHE	LTER AREA	
9	TORMADO SHE	LTER AREA IN BA	SEMENT
<b>∆</b> ExiT	EXIT		
EXIT	HAZARDOUS S	TORAGE EVACUAT	TON ROUTE (PRIMARY)
EXII	GENERAL EVA	CUATION ROUTE (	ALT HAZ ROUTE)
	STAIRWAY		
4	EVACUATION A	ASSEMBLY AREA	
T	ALARM SIRVAL I HORM	PROCUME	PRETON BUILDING
	2 100	EVACUATE	DIE CART SOUTH DIE CART WEST
	5 HOPPI	EVACUATE	TOTAL PLANT (EVERYONE)
SICHALS	A MORNE	EVACUATE	ME CAST MORTH TOOL ROOM
	& HORNS	EVACUATE	HAM HELTER CHIP & CRUSHER SLIGE'S BREET HETAL DROP
	4 140899	FRACIATE	MARTE WATER THEATHERT
	E.OR 1844.	TANK MIRLIER	TOTAL PLANT DEVERYORE)
	CONT HOPM	WITTH	RETURN TO PLANT/DEPT /ANEA
COMPLINI CATIONS CENTER	<b>SECURITY</b>		

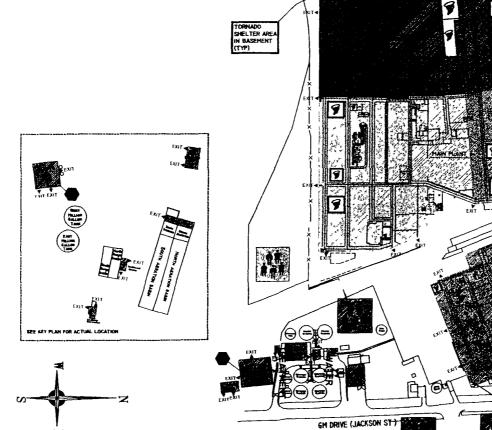
#### EMERGENCY GUIDELINES

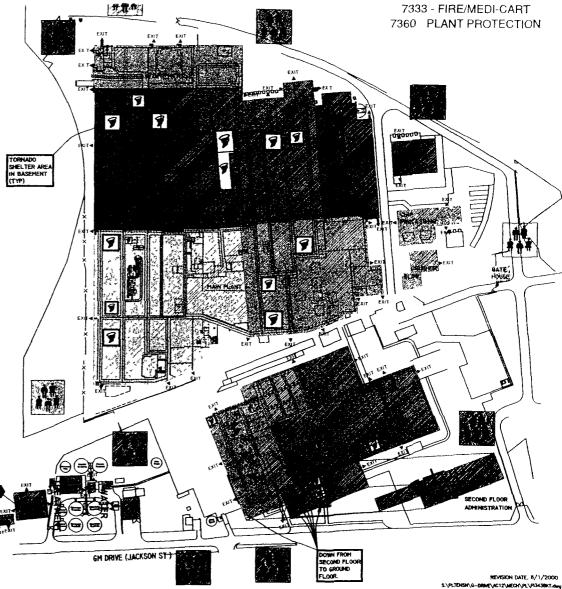
- A. FAHILIARIZE YOURSELF WITH ALL EXIT LOCATIONS.
- KNOW WHERE ALL FIRE EMERGENCY AND SAFETY EQUIPMENT IS LOCATED
- C FAMILIAR ZE YOURSELF WITH COLOR CODED WORK AREA ROUTES AND EXITS.
- OR
  PROCEED TO THE <u>TORMADO SHELTER AREA</u> WHEN THE
  TORMADOLTAKE COVER (REVENE WEATHER)
  SIGNAL SOUNDS.
- PROCEED TO NEAREST ALTERNATE EVACUATION ROUTE IF PRIMARY ROUTE IS BLOCKED
- REGARDLESS OF THE EVACUATION EXIT USED EMPLOYEES SHOULD PROCEED TO THEIR ASSIGNED EVACUATION ASSEMBLY AREAS SHOULD BE USED WHEN PRINARY AREAS ARE INACCESSIBLE.
- H ONCE IN SHELTERS, REMAIN IN AREA UNTIL ALL CLEAR' IS GOUNDED
- DO NOT REENTER BUILDING UNTIL "ALL CLEAR" SIGNAL HAS BEEN GIVEN



ALL EXIT ROUTES FROM YOUR LOCATION ARE FROMARY ROUTES IF YOUR CLOSEST EXIT ROUTE IS BLOCKED USE THE REARREST UNOBSTRUCTED ROUTE WHICH WILL BECOME YOUR ALTERNATE ROUTE.

. HAZARDOUS MATERIAL STORAGE





### Attachment I

SPCC Checklist

### SPCC CHECKLIST

Signature		Title Date
Comments:		
		Does your plan conform to the content and format of the current version of the GM Standard Environmental Practice for SPCC Plans?
		If yes, did you submit your SPCC Plan within 60 days?
		Has your facility had two reportable spill events within a twelve month period or one spill of 1000 gallons or more of oil into navigable waters?
		If yes, was your spill plan utilized and effective? If you answer no to this question state what changes were made to eliminate the deficiency.
		Has your facility experienced a reportable spill within the last twelve months?
		Have you reviewed this plan in detail prior to your signature on this page?
		Do you have a current contract with an emergency response contractor who can remediate a worst case spill from your facility?
		Have you inspected/inventoried spill response equipment as listed in the Spill Response section of this plan?
		Has there been a change in personnel and/or phone numbers listed on the internal notification list? [If yes, plan needs to be updated.]
		Has there been any change (e.g., design, construction/demolition, operation, material type, material volume) that affects your facility's potential to discharge oil or other polluting substance into the waters of the United States during the previous twelve months? [If yes, plan needs to be amended and recertified.]
Yes	No	

124

### SPCC CHECKLIST

Yes	No	
	Ø	Has there been any change (e.g., design, construction/demolition, operation, material type, material volume) that affects your facility's potential to discharge oil or other polluting substance into the waters of the United States during the previous twelve months? [If yes, plan needs to be amended and recertified.]
Ø		Has there been a change in personnel and/or phone numbers listed on the internal notification list? [If yes, plan needs to be <u>updated</u> .]
Ø		Have you inspected/inventoried spill response equipment as listed in the Spill Response section of this plan?
Ø		Do you have a current contract with an emergency response contractor who can remediate a worst case spill from your facility?
¤		Have you reviewed this plan in detail prior to your signature on this page?
	X	Has your facility experienced a reportable spill within the last twelve months?
		If yes, was your spill plan utilized and effective? If you answer no to this question state what changes were made to eliminate the deficiency.
	M	Has your facility had two reportable spill events within a twelve month period or one spill of 1000 gallons or more of oil into navigable waters?
		If yes, did you submit your SPCC Plan within 60 days?
×		Does your plan conform to the content and format of the current version of the GM Standard Environmental Practice for SPCC Plans?
Comments		
The in	ajor (	change to the plan was the update to the
inkrno	ri an	d external notification list. There were
		updates to the emergency response equipmentilist.
Kembe Signature	in Do	Insensite Environmental Engineer 12/27/00  Title Date
7.1		

### SPCC CHECKLIST

			€-
Yes	No		*
		Has there been any change (e.g., design, construction/demolition, operation, material type, material volume) that affects your facility's potential to discharge oil or other polluting substance into the waters of the United States during the previous twelve months? [If yes, plan needs to be amended and recertified.]	•
M.		Has there been a change in personnel and/or phone numbers listed on the internal notification list? [If yes, plan needs to be updated.]	
×		Have you inspected/inventoried spill response equipment as listed in the Spill Response section of this plan?	)
X		Do you have a current contract with an emergency response contractor who can remediate a worst case spill from your facility?	
×		Have you reviewed this plan in detail prior to your signature on this page?	<b>~</b>
	M	Has your facility experienced a reportable spill within the last twelve months?	
		If yes, was your spill plan utilized and effective? If you answer no to this question state what changes were made to eliminate the deficiency.	
	M	Has your facility had two reportable spill events within a twelve month period or one spill of 1000 gallons or more of oil into navigable waters?	` •
		If yes, did you submit your SPCC Plan within 60 days?	
Ø		Does your plan conform to the content and format of the current version of the GM Standard Environmental Practice for SPCC Plans?	
Comments: The chi	امه احد	e in the facility that has affected our potential our oil into the waters of the U.S " was	
a posit	nue i	change. Additional Containment has been placed - fuel oil storage tank at the west storm La	। -५००
environ	ng th	e facility's potential of releasing oil to the	,
		Sovenstei Environmental Engineer 3/7/99 Title Date	\$ Tr.

Attachment J

**Spill History** 

### SPILL HISTORY

### Spill Events

The following is a summary of the spill events that have occurred at the facility since June 10, 1973:

November 12, 1976 - Black material discharged at 002.

February 22, 1977 - Approximately 5 gallons of used flushing spilled at west side of plant.

November 18, 1977 - A noncompliance with NPDES permit report was filed as a result of excessive suspended solids and grease and oils in 001 and 002 outfalls.

September 21, 1984 - Approximately 2500 gallons spilled from a transport tanker into the plant storm water collection system.

May 24, 1990 - Approximately 20 gallons of 66% sulfuric acid from a 55 gallon plastic drum leaked onto a curbed concrete storage pad.

### Description of Incidents:

On November 12, 1976, black material was observed flowing from 002 outfall. This condition lasted approximately one half hour. A test indicated this material contained approximately 160 ppm PCB's. No source of contamination was found. The connection between the settling lagoon and the sewer was removed. By-passed the areas that once contained lagoons.

On February 22, 1977, approximately five gallons of used hydraulic flushing fluid siphoned from its storage tank and reached a storm drain discharging into a ditch west of GM property. The siphoned flow was stopped and the fluid dammed with sand, then cleaned up and disposed of. The ditch was dredged and dredge material disposed of. The storm drain and sewer were abandoned and plugged. The storage tank was moved to a diked area.

On November 18, 1977, a non-compliance with NPDES permit report was filed. Test results at 001 and 002 outfall indicated suspended solids and grease and oils content concentrations that exceeded allowable limits. The reasons for the exceedance were excessive influent flow of water to the treatment plant resulting from a break in underground city water line and a reservoir level control malfunction. Both faults were corrected and effluent water quality returned to allowable quality.

On September 14, 1984, a tank transporter unloading hydraulic fluid to the plant ruptured, releasing approximately 2500 gallons of fluid. The spill plan was activated, containing the majority of the spilled fluid with the remaining fluid entering into the plant's storm water collection system. This fluid was contained at a lift station where the fluid was pumped out

and all lines flushed.

On May 24, 1990, a 55 gallon plastic drum developed a small leak from which approximately 20 gallons of 66% sulfuric acid leaked onto a curbed concrete storage pad. The sulfuric acid ran into a grated perimeter drain trough which runs around the inside of the curbed area and then into a 2' x 2' x 3' pump collection box where the material was contained. Spill Recovery of Indiana was brought in to clean up the spilled acid.

\* INDICATES REVISION

REVISER Kim Dobosenski

### **EMERGENCY RESPONSE**

\*Internal Spill/Release Report

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K.D. 1/20/99

Environmental Audit Report: Privileged Information

FORM NO. 5523-10(A)

DATE ISSUED 9/24/98

**REVISION #1** 

**REVISION DATE: 1/19/99** 

PAGE 1 OF 1

\*TO BE COMPLETED BY SECURITY AND/OR ENVIRONMENTAL PERSONNEL

1. Name, Phone Number of Caller: Math Attutis
GM Employee? X Yes No If No, Identify
2. Date and Time of Call: 1/19/99 at 11:30 a.m.
3. Date and Time of Incident (Estimate): 1/19/99 around 10-11am.
4. Exact Location of Incident: North of the Crusher/Chip System buildings. Outside at the aluminum chip unloading area.
5. Type of Incident Being Reported:
Spill X Fire Explosion Other
6. Discharge to : Interior Bldg Exterior ContainmentX
Sewer System Surface Water Atmospheric Release
Ground Other
7. Did the material leave GM Property?: Yes No _X Unknown
8. Types (or name) of materials involved (if known, be specific): hydrautic fluid
9. Quantities of materials involved (Estimate): 10 - 20 gallons
nose_
10. What is the source of the spill?: Oil time broke on a truck that was in progress of dumping its load of aluminum chips.
11 Is material continuing to be released?: No
12 What actions, if any, have been taken to contain or clean up materials? : Maintenance was contacted to put out dry on the spilled materials. The oil and oil dry will then be should into a 55-gallon dring for disposal
13. Any Injuries?: no
*ENVIRONMENTAL USE ONLY
14. Did the Release Plan and any applicable emergency response procedures appropriately address the Incident?: Yes X No If No, explain deficiency (use back of form if necessary):
Explain necessary revisions to the Plan to address future Incidents (use back of form if necessary): The spill/release report forms were updated in the Release Plan to make coincide with the Isolyoci procedure 5503-10 (Emergency Preparedness and Response). Section 4.10 of the Release Plan
Print Name: Kimberly Dobosenski Time: 9:00 am
Signature: Veniler Belovinski Date: 1/20/99

\*Note: If this form was initiated by Security Personnel, please submit to the Environmental Department for completion and record retention.

### \* INDICATES REVISION

### REVISER Kim Dobosenski

### **EMERGENCY RESPONSE**

### \*Internal Spill/Release Report

FORM NO. 5523-10(A)

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**REVISION #1** 

**REVISION DATE: 1/19/99** 

Environmental Audit Report: Privileged Information

PAGE 1 OF 1

*TO BE COMPLETED BY SECURITY AND/OR ENVIRONMENTAL PERSONNEL
1. Name, Phone Number of Caller: Security
GM Employee? X Yes No If No, Identify
2. Date and Time of Call: 5:35 pm April 12, 1999
3. Date and Time of Incident (Estimate): 5:00 pm
4. Exact Location of Incident:  Receiving Department - Outside the northeast side of the Receiving office.
5. Type of Incident Being Reported:
Spill X Fire Explosion Other
6. Discharge to : Interior BldgX Exterior Containment
Sewer System Surface Water Atmospheric Release
Ground Other
7. Did the material leave GM Property?: Yes No _X Unknown
8. Types (or name) of materials involved (if known, be specific): Gulf cut Soluble cil
9. Quantities of materials involved (Estimate): approximately 305 yallons
10. What is the source of the spill? Nozzel was broken off toke confiner. Nozzel was up against a wake. When a fork truck driver went to pick the toke up the nozzel caught on the wall and broke off.
11. Is material continuing to be released?: No.
12. What actions, if any, have been taken to contain or clean up materials?:  The material has been contained A vac truck will be used to Suck up the material and then the meterial will be sent to WUT to his treated through the limited.  13. Any Injuries?: Als
13. Any Injuries?: No -
*ENVIRONMENTAL USE ONLY
14. Did the Release Plan and any applicable emergency response procedures appropriately address the Incident?: Yes X No If No, explain deficiency (use back of form if necessary):
Explain necessary revisions to the Plan to address future Incidents (use back of form if necessary):  A revision to the Release Plan to not necessary but the PCEL department will be investigating buying new totes that have protected nezzels, nozzels ma
di non trait
Print Name: Kimberty DOBOSENSEI Time: 5:50 pm from the tot
Signature: Kinbert Dobouenalie Date: 4/12/99

<sup>\*</sup>Note: If this form was initiated by Security Personnel, please submit to the Environmental Department for completion and record retention.

\* INDICATES REVISION

**REVISER** Kim Dobosenski

### **EMERGENCY RESPONSE**

\*Internal Spill/Release Report

FORM NO. 5523-10(A)

DATE ISSUED 9/24/98

**REVISION #1** 

**REVISION DATE: 1/19/99** 

Environmental Audit Report: Privileged Information

PAGE 1 OF 1

### \*TO RE COMPLETED BY SECURITY AND/OR ENVIRONMENTAL REDSONNEL

-10 BE COMPLETED BY SECURITY AND/OR ENVIRONMENTAL PERSONNEL
1. Name, Phone Number of Caller: Security
GM Employee? X Yes No If No, Identify
2. Date and Time of Call: 2:30 pm on 3 (21/00
3. Date and Time of Incident (Estimate): 2:10pm on 3(21/00
4. Exact Location of Incident:
Tool Room Annex Dock
5. Type of Incident Being Reported:
Spill 🔽 Fire Explosion Other
6. Discharge to: Interior Bldg Exterior ContainmentX
Sewer System Surface Water Atmospheric Release
Ground Y Other Concrete on top of Annex Deck
7. Did the material leave GM Property?: Yes No X Unknown
8. Types (or name) of materials involved (if known, be specific): Peerless Spray Kleen 901-1
9. Quantities of materials involved (Estimate): へ 5 golo.
10 What is the source of the spill? Solver on take of make in the source of the spill?
10. What is the source of the spill? Spikot on tote of material was leaking - had bosened or was not closed all the way. Material stopped leaking to so soon as tote of spikot was turned off.  11. Is material continuing to be released? No.
as soon as tote once spiket was turned off.
11. Is material continuing to be released?. 100,
12. What actions, if any, have been taken to contain or clean up materials?: Material was diluted
down sent to wat drain.
13. Any Injuries?: Na
*ENVIRONMENTAL USE ONLY
14. Did the Release Plan and any applicable emergency response procedures appropriately address the
Incident?: Yes X No If No, explain deficiency (use back of form if necessary):  Security notified environmental perviousmental notified maintenance of proper
cleary.
Explain necessary revisions to the Plan to address future Incidents (use back of form if necessary):
_
Print Name: Kimberly Dobosenski Time: 3:30 pm
212.1

Signature: <u>Ven berly Dobosensli</u> Date: 3/21/00

<sup>\*</sup>Note: If this form was initiated by Security Personnel, please submit to the Environmental Department for completion and record retention.

\* INDICATES REVISION

REVISER Kim Dobosenski

### **EMERGENCY RESPONSE**

\*Internal Spill/Release Report

FORM NO. 5523-10(A)

DATE ISSUED 9/24/98

**REVISION #1** 

**REVISION DATE: 1/19/99** 

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PAGE 1 OF 1

*TO BE COMPLETED BY SECURITY AND/OR ENVIRONMENTAL PERSONNEL	
1. Name, Phone Number of Caller: CAZ Williams to Security	7
GM Employee? X Yes No If No, Identify	
2. Date and Time of Call: Tuesday, June 20 at approximately 2:00pm	1
3. Date and Time of Incident (Estimate): Tuesday, June 20, 2000 at approximately 200 pm	1
4. Exact Location of Incident:  PC+L receiving area > just east of receiving offices.	
5. Type of Incident Being Reported:	1
Spill X Fire Explosion Other	
6. Discharge to : Interior Bldg Exterior Containment	1
Sewer System Surface Water Atmospheric Release	
Ground Other	
7. Did the material leave GM Property?: Yes No _x_ Unknown	7
8. Types (or name) of materials involved (if known, be specific): Die Lube 5150	1
9. Quantities of materials involved (Estimate): Approximately 250 - 300 gellon).	
10. What is the source of the spill? A tote of Die Lube was being lifted down by a fact truck to allow sampling of the material. Due to the slick button on the toke and the fact that the forks weren't securely in place the tote few over pipping off the 11. Is material continuing to be released?  No.	lie
12. What actions, if any, have been taken to contain or clean up materials?:  A floor succept wise brought in but was unsuccessful in sucking up the majorical A sucking the will be brought in instead. It has the sucking necessary for 13. Any Injuries?: NO.	re ped
*ENVIRONMENTAL USE ONLY  14. Did the Release Plan and any applicable emergency response procedures appropriately address the Incident?: Yes \( \sum \) No If No, explain deficiency (use back of form if necessary):  Security was contacted and the opposite to the Plan to address future Incidents (use back of form if necessary):	
Print Name: Kimber L. Dobosenski Time: 5:00 pm Signature: Vendenh Dobosenski Date: 4/20/00	J
Signature: Venloch Doboschale Date: 4/20/00	

\*Note: If this form was initiated by Security Personnel, please submit to the Environmental Department for completion and record retention.



Worldwide Facilities Group Environmental Operations Midwest Region - Bedford Facility

> 105 GM Drive Bedford, Indiana 47421-0271 (812)-279-7404 [fax 7258] 8-343-7404 [fax 7258]

**Date:** January 15, 2001

To: Environmental Files

From: Kim Dobosenski

Subject: #9 Furnace Spill

On September 28, 2000 there was a loss of aluminum from the #9 furnace in the Main Melting Department. Since this incident was a spill there should have been an Internal Spill/Release Report written to describe and evaluate the situation. Due to the nature of this material (a hot molten metal), one of the primary concerns is fire. As a result of focusing on the fire situation, the fact that this had also been a spill event had been overlooked. Later in evaluating Health and Safety's write-up of the event, it came to my attention that a spill report should have been completed. To help prevent this oversight in the future, aluminum furnaces will be included in the pre-plan binder of potential facility spill events (currently in development). By focusing on the release of molten aluminum in the pre-plan, it should help remind myself and other members of the response team that the release of molten aluminum needs to be considered as a spill event, in addition to the other hazards it presents.

### \* INDICATES REVISION

REVISER Kim Dobosenski

### **EMERGENCY RESPONSE**

### \*Internal Spill/Release Report

FORM NO. 5523-10(A)

DATE ISSUED 9/24/98

**REVISION #1** 

**REVISION DATE: 1/19/99** 

Environmental Audit Report: Privileged Information

PAGE 1 OF 1

*TO BE COMPLETED BY SECURITY AND/OR ENVIRONMENTAL PERSONNEL	
1. Name, Phone Number of Caller: Security Sue Pride more, 7360	
GM Employee? X Yes No If No, Identify	_ }
2. Date and Time of Call: 10 - 22 - 00 at 2:30 pm	
3. Date and Time of Incident (Estimate): 10-22-00 - time unknown	
4. Exact Location of Incident:  Gas and Diesel fueling area. As part of our effort to put containment as Current gas + diesel tents, temporary fueling tents use brought in - the temporary fueling tents had the release of fluir.  5. Type of Incident Being Reported:  Spill X Fire Explosion Other	round the orang
6. Discharge to : Interior Bldg Exterior Containment	
Sewer System Surface Water Atmospheric Release  Ground _X Other	
7. Did the material leave GM Property?: Yes No _X Unknown	
8. Types (or name) of materials involved (if known, be specific): Unocal Diesel # 1	
9. Quantities of materials involved (Estimate): 150 - 200 gallons	
10. What is the source of the spill? A temporary diesel fuel tank had been do either by support stand edlopsing or from being hit.	maged
11. Is material continuing to be released?: No, doesn't appear to be.	
12. What actions, if any, have been taken to contain or clean up materials?:  Material is naturally being contained on top of the clay soil.  No internal actions have been taken to further contain material - 0  13. Any Injuries?: No Beauty to the action to the contain material - 0	salled Sp
13. Any Injuries?: No. Barrier has been established to tecp people out -	no e
*ENVIRONMENTAL USE ONLY  14. Did the Release Plan and any applicable emergency response procedures appropriately address the Incident?: Yes X No If No, explain deficiency (use back of form if necessary):	
However, as a recommendation for improvement, it was coggested that the insurance papers for our spill respondence be kept in our spill plan. Explain necessary revisions to the Plan to address future Incidents (use back of form if necessary): Nine onserved.	
Print Name: Kimberly Dobosenski Time: 4:00 pm	
Signature: Wish le Debognashin Date: 10/22/00	

\*Note: If this form was initiated by Security Personnel, please submit to the Environmental Department for completion and record retention.

### SPILL RECOVERY OF INDIANA, INC.

### RESPONSE REPORT

Customer Name/ Address: General Motors Powertrain

105 GM Drive Bedford, IN 47421

Kimberly Dodosenki GM Powertrain Response Requested By:

Name/ Company/ Date/ Time:

10/22/00

3:15 p.m.

Date/Time Spill Occurred:

10/22/00

exact time unknown to SROI

Cause of Spill:

Overturned AST

Spill Location:

General Motors Powertrain

Address/ City/ Zip Code:

Bedford, IN

Area Affected:

1400 sq. ft.

Product Name/ Description:

**Diesel Fuel** 

Amount Spilled: Est. 200-gallon

Amount Recovered: 163-gallon

Containment/ Clean-up: The SROI Project Manager received a call from Kimberly Dodosenki with GM Powertrain in Bedford requesting response to a diesel fuel spill at the Bedford location. It was agreed upon between the SROI Project Manager and Kimberly Dodosenki that SROI would only remove the free liquid. SROI responded to the score with a track and stake truck, Project Manager, Equipment

Operator, and Spill Technician. I All free liquid on the ground was Crew applied a thin layer of peat

410931 and

with the vacuum truck. vacuumed dry. The SROI dual product that may leach

out of the soil.

410791

box #s

A Powertrain personnel

Ms. Kimberly Dodosenki would complete the rest of the cl-

MSDS: {X} On File

were the Sock removed from this acea.

Disposal of Recovered Material:

On Scene Representatives: Spill Recovery of Indiana:

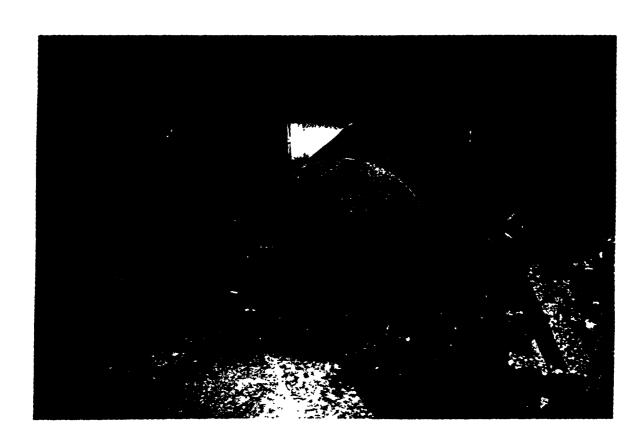
Site Map Attached: Yes

Re: 109395

H	Shipping Bill of Lading	INDOO	seradini. Siniaisi	n io io	di	2121	412	3	
	3. Generator's Name and Mailing Address	General Motors 195 GM Drive	B Powertra			<u>-1-</u>	_*!*		
	Generator's Phone ( 812) 279-7144	Bedford, IN 474	K27(						
	4. Transporter 1 Company Name Canadian Pacific	MND00696	2641					(800)-	<b>766-43</b> 97
	5. Transporter 2 Company Name UPRR	NED00179	2910					(402)-	271-4400
	6. Transporter 3 Company Name	•							
_	7. Transporter 4 Company Name	····	<del>-</del>						
-	8. Designated Facility Name and Site Address  ECDC Environmental  1111 W. Highway 123, P.O. Box 69, East Carbon	ı, Utah 84520, Phone (80	D1) 888-445	1					
	U.S. DOT Description (including Proper Shipping Name)	<u></u>	10. Con		Tot	11.		12. Unit	13. Waste Pr
<b>a</b> .	Non-Hazardous, Non-Regulated Mate	erial per 49 CFR	10.	Туре	104	# CUE	жу	77770	Sheet
•	& 40 CFR (Concrete/Soil)		991	C, M	<b>⋜</b>  ~	1410	46	L85-44	<u> </u>
b.					_##_		<u> </u>		
			1,1		1	1 1	}		
•	14. Additional Descriptions for Materials Listed Above								
  -	Profile# GM21450-1000  Container# 4/079   IS Special Handling Instructions and Additional Information					<u> </u>	, 		
 						<del>-</del>		······································	
	Container# 4/079/					-		•••	, , <u>, , , , , , , , , , , , , , , , , </u>
	Container# 4/0791  15. Special Handling Instructions and Additional Information Emergency Phone# 1-800-535-5053	ne contents of this consignme all respects in proper condition	nt are fully and on for transport	accurat by high	ely des way ac	cribed	abow	e by proper si oplicable inter	hipping na national a
1	Container# 4/1079/  15. Special Handling Instructions and Additional Information Emergency Phone# 1-800-635-5053  ERG# 171  6. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.	all respects in proper condition	on for transport	by high	ely des way ac	cribed	abow to ap	oplicable inter	mational a
Pri	Container# 4/10791  15. Special Handling Instructions and Additional Information Emergency Phone# 1-800-635-5053  ERG# 171  6. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  The partial February Formation of the partial february	all respects in proper condition	on for transport	by high	ely des way ac	cribed	abow j to ap	oplicable inter	national ar
1 Pri	Container# 4/1079/  15. Special Handling Instructions and Additional Information Emergency Phone# 1-800-635-6053  ERG# 171  6. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.	all respects in proper condition	on for transport	by high	ely des way ac	cribed	abow y to ac	oplicable inter	Dey Y
Pri Pri	Container 4/1079  15. Special Handling Instructions and Additional Information Emergency Phones 1-800-635-6053  ERG\$ 171  16. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  16. Transporter 1 Additional Entry County Cou	all respects in proper condition	on for transport	by high	ely des way ac	cribed	abow abow	Month	Dey Y
Pri 1	Container# 4/1079  15. Special Handling Instructions and Additional Information Emergency Phone# 1-800-635-6053  ERG# 171  6. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  The Decial Eatz Cour K. J.  7. Transporter 1 Acknowledgement of Receipt of Materials inted/Typed Name	Signature Signature	on for transport	by high	ely des way ac	cribed	abow to ap	Month	Dey Y
1 Pri	Containers 4/1079  15. Special Handling Instructions and Additional Information Entergency Phones 1-800-635-6053  ERG\$ 171  16. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  Inted/Typed Name  15. Transporter 1 Acknowledgement of Receipt of Materials inted/Typed Name  16. Transporter 2 Acknowledgement of Receipt of Materials	all respects in proper condition  Signature  Signature	on for transport	by high	ely desway ac	cribed	abow to ac	Month   Month	Dey Y. Dey Y. Dey Y.
Pri 1 Pri 1	Containers 4/1079  15. Special Handling Instructions and Additional Information Entergency Phones 1-800-635-6053  ERG\$ 171  16. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  16. Transporter 1 Acknowledgement of Receipt of Materials inted/Typed Name  17. Transporter 2 Acknowledgement of Receipt of Materials inted/Typed Name	all respects in proper condition  Signature  Signature	on for transport	by high	sty desway ac	cribed	abow y to ac	Month   Month	Dey Y. Dey Y. Dey Y.
1 Pri	Container# 4/1079  15. Special Handling Instructions and Additional Information Entergency Phone# 1-800-635-5053  ERG# 171  6. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  1. Transporter 1 Acknowledgement of Receipt of Materials inted/Typed Name  8. Transporter 2 Acknowledgement of Receipt of Materials inted/Typed Name  8. Transporter 3 Acknowledgement of Receipt of Materials inted/Typed Name	Signature Signature Signature	on for transport	by high	sty desway ac	cribed	abow to ac	Month	Day Y.
Pri Pri 2	Container# 4/079  15. Special Handling Instructions and Additional Information Emergency Phone# 1-800-635-5053  ERG# 171  6. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  The project of Materials of Project of Materials and Name  8. Transporter 2 Acknowledgement of Receipt of Materials and Typed Name  8. Transporter 3 Acknowledgement of Receipt of Materials and Typed Name  8. Transporter 3 Acknowledgement of Receipt of Materials and Typed Name	Signature Signature Signature	on for transport	by high	Sily des	cribed	abow of to ac	Month	Day Y
Pri	Container# 4/079  15. Special Handling Instructions and Additional Information Emergency Phone# 1-800-535-5053  ERG# 171  6. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  The Property Phone  6. Transporter 1 Acknowledgement of Receipt of Materials inted/Typed Name  8. Transporter 2 Acknowledgement of Receipt of Materials inted/Typed Name  9. Transporter 3 Acknowledgement of Receipt of Materials inted/Typed Name  9. Transporter 4 Acknowledgement of Receipt of Materials inted/Typed Name	Signature Signature Signature Signature	on for transport	by high	ely des	cribed	abow of to ap	Month   Month   Month   Month	Day Y
Pri	Container# 4/079  15. Special Handling Instructions and Additional Information Emergency Phone# 1-800-635-6053  ERG# 171  16. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  The Decial Eats Cour K. J. A. Transporter 1 Acknowledgement of Receipt of Materials inted/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials inted/Typed Name  19. Transporter 3 Acknowledgement of Receipt of Materials inted/Typed Name  10. Transporter 4 Acknowledgement of Receipt of Materials inted/Typed Name	Signature Signature Signature Signature	on for transport	by high	ely desway ac	cribed	abow to ap	Month   Month   Month   Month	Day Y
Pri	Container# 4/079  15. Special Handling Instructions and Additional Information Emergency Phone# 1-800-635-6053  ERG# 171  16. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in national government regulations.  The Decial Eats Cour K. J. A. Transporter 1 Acknowledgement of Receipt of Materials inted/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials inted/Typed Name  19. Transporter 3 Acknowledgement of Receipt of Materials inted/Typed Name  10. Transporter 4 Acknowledgement of Receipt of Materials inted/Typed Name	Signature Signature Signature Signature Signature	on for transport	C_	way ac	cording	) to ac	Month   Month   Month   Month	Day Y

SK Service	at C A Sefeta Kles								
	1. Generator's US	EPA ID A	10. //	f anvi	2.0	Gen. BO	)L No	<u> </u>	
Shipping Bill of Lading						22			
3. Generator's Name and Mailing Address	General Motors P 105 GM Drive	Owert	rain	n Diy	7.				
Generator's Phone (812 )279-7144	Becford, IN 47421	1							
4. Transporter 1 Company Name	MND006962	641						(800)-7	56-4397
5. Transpage & Company Name	NED001792	910		·				(402)-2	71-4400
6. Transporter 3 Company Name		<del>-,</del>		<del></del>	·	<del></del>			
7. Transporter 4 Company Name .		<del></del>					<del></del>		
Designated Facility Name and Site Address	<u>,,,                                    </u>	<del></del>			<del></del>				
ECDC Environmental 1111 W. Highway 123, P.O. Box 69, East Carbon,	Utah 84520, Phone (801)	) 888-4	1451						
9. U.S. DOT Description (including Proper Shipping Name)				iners	1	11.		12. Unit	13.
HM		No.	- 1	Туре	Tota	al Quant	tity	Wt/Vol	Waste Profile Sheet #
a. Non-Hazardous, Non-Regulated Mater & 40 CFR (Concrete/Soil)		0 0 1		C M				- <del>Ye</del> l-	
			Ц	1	30	12K	10	LBS.	
b.			١						
		111	1	1	1	1 1	1		
									·
14. Additional Descriptions for Materials Listed Above									
14. Additional Descriptions for Materials Listed Above Profiled GM21450-1000									
Profile# GM21450-1000									
Profile# GM21450-1000  Container# 410931							<del>,</del> -		
Profile# GM21450-1000		No. 1944 - Anna Santana							
Profile# GM21450-1000  Container# 410931				<u>.</u> .	Page that the Page of the Page				
Profiles GM21450-1000  Containers 4/093/  15. Special Hardison Legisphones Addition 5:550053		<b>*</b>	<u>-</u>		Magazinia (Al-An-Associ			•	
Profiles GM21450-1000  Containers 4/093/  15. Special Happing Instruction and Addition 5 350 20033  ERGS 171  16. GENERATOR'S CERTIFICATION: I hereby declare that the	contents of this consignment a	are fully a	and a	ccurate	ely des	cribed a	bove	by proper sh	ipoing name
Profiles GM21450-1000  Containers 4/093/  15. Special Hapdison Legisprinon and Additions Schools Services  ERGS 171  16. GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked and labeled, and are in a	contents of this consignment a Il respects in proper condition f	tre fully a	and a	ccurate	ely des	cribed a	bove to ap	by proper sh	ipping name national and
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THIS MEMORANDUM is an addressive governing the property named	ng has been assed and as not the C d herein, and is intended solely for	Original Bill of Lading not a cop r filing or record.	Shipper's No.	119.20	
(Carrier) Spill Recovery of Indiana, Received, subject to the classifications and tariffs in effect on the date of this B	Inc. SCAC.		Carrier's No	IMD98195	56055
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the properly described below, in apparent good order except as noted (contents and condition content as meaning any person or cotponiston in possession of the property under the content destination, it is mutually agreed, as to each carrier of all or any of said property over all or any audject to all the conditions not prohibited by law, whether printed or writen, henter contained (as (Mail or street address of consignee for purposes of no	ny agrees to carry to its security peace y portion of said route to destination a specified in Appendix B to Part 100 Otification only.)		on as own room or me own water arms to interest on all or any of said prop y the shipper and accepted for himself		performed hereunder shall be
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Note — where the rate is dependent on value, shippers are required to state specifically in wrang the agreed or declared. The agreed or declared value of the property is hereby specifically stated by the thipper to be not exceedingperper	ad value of the property \$.	Charges Advanced	(Signature of coneig	. 1	IGHT CHARGES
This is to certify that the above-named materials are properly cleasted, described packaged mark tabeled and are in proper condeon for trensportation according to the applicable regulations of the Depo of Transportation	PLACARDS REQUIRED	•	PLACARDS SUPPLIED	YES NO-I	FURNISHED BY CARRIE RE:
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9-BLS-A3 (Rev. 7/9

# SPILL RECOVERY OF INDIANA, INC. CERTIFICATION OF FUEL BLENDING

TO: GENERAL MOTORS POWERTRAIN 105 GM DRIVE BEDFORD, IN 47421

PRODUCT: DIESEL

GALLONS: 163

THE MATERIAL AND GALLONS AS INDICATED ABOVE, WAS ENTERED INTO A FUEL BLENDING PROGRAM. THE FUELS ARE OFFERED FOR THIS PROGRAM TO WARRIOR OIL SERVICES, INC., IN ACCORDANCE WITH UNITED STATES ENVIORNMENTAL PROTECTION AGENCY, FOR FUEL BLENDING PROGRAMS.

LOCATION: SAME

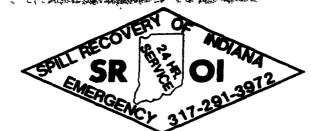
**INVOICE NUMBER: 109395** 

Regina D. Congrove

**Client Services** 

SPILL RECOVERY OF INDIANA, INC. EPA ID# IND981956055 WARRIOR OIL SERVICE, INC. EPA ID# IND984900308

SHOI 109395



P.O. Box 34337 Indianapolis, IN 46234 1-800-421-SROI (7764)



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### SPILL RECOVERY&CLEANUP CONTRACT

Comes now SPILL RECOVERY OF INDIANA, INC., hereinafter referred to as the "Contractor", and

Comes now\_\_\_\_

hereinafter referred to as the "Customer", by and through its duly authorized representative, agent, servant and/or employee, and

IT IS COVENANTED AND AGREED AS FOLLOWS:

1. The Customer hires the Contractor for the purpose of the recovery/clean-up of the materials of which said spill\_occured

on or about 10-22-2000 and involves an area in the location of

GH Power Train

- 2. The Contractor agrees to undertake the spill recovery work and to satisfy the requirements of the various governmental authorities which are made known by the Customer to the Contractor, providing all necessary materials, labor and equipment as per a schedule of charges, which is attached hereto, made a part thereof, and marked Exhibit "A" for identification.
- 3. The Customer authorizes the Contractor to use whatever equipment the Contractor deems necessary and provide whatever labor the Contractor deems necessary to complete the spill recovery/clean-up as herein provided, and Customer agrees to pay the charges for said material, labor and equipment as set forth in Exhibit "A" attached hereto.
- 4. Payment shall be made by the Customer to the Contractor promptly upon submission of invoices, and will be from time to time submitted during the course of the work by the Contractor to the Customer. If any invoice is not paid within thirty (30) days from its due date, Contractor may take any action at law or equity for recovery and Customer agrees to pay all costs, including reasonable attorney fees incurred by Contractor in bringing such action.
- 5. The Customer shall designate the area in which the spill recovery/clean-up is to be conducted in writing and attach hereto as Exhibit "B", and the Customer will hold the Contractor harmless from any and all claims arising out of necessary ingress and egress and operation on lands necessitated by the recovery or clean-up, but the Contractor shall be responsible for any damages to lands or buildings thereon caused by the negligence of the Contractor, his servants, agents and/or

11. E

employees, and shall hold the Customer harmless from claims arising out of that said negligence.

- 6. The Contractor will carry suitable liability insurance covering its operation, a copy is attached and marked Exhibit "C". The Contractor shall carry the necessary Workmen's Compensation Insurance and upon demand, deliver a certificate for said insurance to the Customer.
- 7. The Customer shall agree to furnish a Certificate of Insurance covering liability to SPILL RECOVERY OF INDIANA, INC.
- 8. The Customer may stop the spill recovery/clean-up work upon twenty-four (24) hour written notice, and upon payment of all invoices submitted or due at the time of the work stoppage.
- 9. Any estimates of time, labor, material and equipment given by the Contractor to the Customer are estimates only, since the work on the spill recovery/clean-up must be done in such a manner as to comply with the rules and regulations of various governmental authorities and the controlling price for work done shall not be the estimate but the actual amount of time, labor and equipment spent in accordance with Exhibit "A" atached hereto and invoices submitted thereon by the Contractor to the Customer.

DATED THIS day of 10-22.00

SPILL RECOVERY OF INDIANA, INC.

1 Jan Colomo

Title

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By King, - Pelometry

Title Environme on Engineer

17. 17.

### Attachment K

Communications with Local Response / Emergency Facilities



Worldwide Facilities Group Environmental Services Midwest Region - Bedford Facility 105 GM Drive Bedford, Indiana 47421-0271 (812)-279-7404 [fax 7258]

November 24, 1998

Dunn Memorial Hospital 1600 23rd Street Bedford, IN 47421

Subject: Emergency Response and Preparedness - Release Plan

Dear Jon Maze, Ambulance Supervisor

Thank you for your interest in the GM Powertrain - Bedford, Emergency Response and Preparedness - Release Plan. The plan gives important background information about chemicals stored at our facility and the steps that would be taken in the event of a significant chemical release. As you will find in the plan, the Bedford Fire Department is the only local emergency response group that has direct responsibility for responding to significant chemical releases. The Bedford Fire Department has been trained in spill response under the HAZWOPER program and has the necessary skills to protect local health and the environment.

The Dunn Memorial Hospital would **NOT** be asked to respond directly to chemical releases at the facility. However, in the event of an emergency the Dunn Memorial Hospital may be utilized, if necessary, to give medical attention to people in the plant and the surrounding region.

If you have any questions with any of the information contained in the plan, please feel free to call me at 279-7404.

Sincerely,

Kimberly Dobosenski

Environmental Engineer

Kunkerly Dobosenski



Worldwide Facilities Group Environmental Services Midweet Region - Bedford Facility

105 GM Drive Bedford, Indiana 47421-0271 (812)-279-7404 [fax 7258]

November 24, 1998

Laurence County Local Emergency Planning Committee Rt 10 Box # 1122 Bedford, IN 47421

Subject: Emergency Response and Preparedness - Release Plan

Dear Valerie Luchauer,

Thank you for your interest in the GM Powertrain - Bedford, Emergency Response and Preparedness - Release Plan. The plan gives important background information about chemicals stored at our facility and the steps that would be taken in the event of a significant chemical release. As you will find in the plan, the Bedford Fire Department is the only local emergency response group that has direct responsibility for responding to significant chemical releases. The Bedford Fire Department has been trained in spill response under the HAZWOPER program and has the necessary skills to protect local health and the environment.

If you have any questions with any of the information contained in the plan, please feel free to call me at 279-7404.

Sincerely,

Kimberly Dobosenski

Environmental Engineer

Ku-Louis Dolore- Lei



**Worldwide Facilities Group Environmental Services** Midwest Region - Bedford Facility 105 GM Drive Bedford, Indiana 47421-0271

(812)-279-7404 [fax 7258]

November 24, 1998

**Bedford Regional Medical Center** 2900 West 16th Street Bedford, IN 47421

Subject: Emergency Response and Preparedness - Release Plan

Dear Jim Pittman,

Thank you for your interest in the GM Powertrain - Bedford, Emergency Response and Preparedness -Release Plan. The plan gives important background information about chemicals stored at our facility and the steps that would be taken in the event of a significant chemical release. As you will find in the plan, the Bedford Fire Department is the only local emergency response group that has direct responsibility for responding to significant chemical releases. The Bedford Fire Department has been trained in spill response under the HAZWOPER program and has the necessary skills to protect local health and the environment.

The Bedford Regional Medical Center would NOT be asked to respond directly to chemical releases at the facility. However, in the event of an emergency the Bedford Regional Medical Center may be utilized, if necessary, to give medical attention to people in the plant and the surrounding region..

If you have any questions with any of the information contained in the plan, please feel free to call me at 279-7404.

Sincerely,

Kimberly Dobosenski

Environmental Engineer

Kinisery Dobesenski



Worldwide Facilities Group Environmental Services Midwest Region - Bedford Facility 105 GM Drive Bedford, Indiana 47421-0271

(812)-279-7404 [fax 7258]

5. F F

November 24, 1998

Bedford Police 1617 K. Street Bedford, IN 47421

Subject: Emergency Response and Preparedness - Release Plan

Dear Dave Jarrard,

Thank you for your interest in the GM Powertrain - Bedford, Emergency Response and Preparedness - Release Plan. The plan gives important background information about chemicals stored at our facility and the steps that would be taken in the event of a significant chemical release. As you will find in the plan, the Bedford Fire Department is the only local emergency response group that has direct responsibility for responding to significant chemical releases. The Bedford Fire Department has been trained in spill response under the HAZWOPER program and has the necessary skills to protect local health and the environment.

The Bedford Police would NOT be asked to respond directly to chemical releases at the facility. However, in the event of an emergency the Bedford Police may be utilized, if necessary, to give assistance to the emergency situation.

If you have any questions with any of the information contained in the plan, please feel free to call me at 279-7404.

Sincerely,

Kimberly Dobosenski

**Environmental Engineer** 

Kuntacity Dalsonstee



**Worldwide Facilities Group Environmental Operations** Indiana Region - Bedford Facility

> P.O. Box, 271, 105 GM Drive Bedford, Indiana 47421-0271 (812)-279-7308 [fax 7258] 8-343-7308 [fax 7258]

In order to meet our requirements under the ISO14000 program, we are issuing the following statement. This statement verifies that General Motors Environmental Personnel, from the Bedford facility, have discussed and made arrangements with the local Fire Department in regards to GM Bedford's Emergency Response and Preparedness - Release Plan. In the event of an actual or imminent emergency, beyond the capabilities of internal response, the Bedford Fire Department will be called to respond.

I certify that I have reviewed and discussed the GM Bedford Emergency Response and Preparedness - Release Plan with the Bedford Fire Chief.

I certify that the GM Bedford Emergency Response and Preparedness - Release Plan has been reviewed and discussed with me by GM Environmental Personnel.

DER:  ums 1 and of 2 by additional services in 3.14, and 40 in 70 in 3.14, and 40 in 3.14 in	receive a copy of the GM Powertrain - B Emergency Response and Preparedne.  Release Plan.  Please address the package to the attention of Weric Luchauer  (Name of Individual to receive the Release Plan)  at the following address:  R+10 Bot # 1122  Breaford IN 47421  Yes, Beofox Police would (Name of Emergency Service)  receive a copy of the GM Powertrain - E Emergency Response and Preparedne  Release Plan.
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SENDER:  SENDER:  Complete lams 1 and/or 2 for additional services  Complete lams 3 d. a. and d.  Complete lams 4 d.  Complete	Yes, Divid Mendelal Maspital would  (Name of Emergency Service)  receive a copy of the GM Powertrain - Be  Emergency Response and Preparedness  Release Plan.  Please address the package to the attention of Jon Maze Ambulance Supera  (Name of Individual to receive the Release Plan)  at the following address:  1600-23 RO ST.  Bed Ford, In 4742/



GM Powertrain 105 Dr. Bedford, Indiana 47421 Phone: 812-279-7404

Fax: 812-279-7258

Date: October 27, 1998

To: Lawrence County Local Emergency Planning Committee

From: Kimberly Dobosenski, General Motors Environmental Engineer

Subject: New Version of the GM Powertrain - Bedford, Emergency Response and

Preparedness Release Plan

The Emergency Response and Preparedness - Release Plan for the GM Powertrain - Bedford Aluminum Foundry has been updated and amended from the 1997 version. If you would like to have a copy of this Release Plan, please complete and return the following postcard.



## Worldwide Facilities Group Environmental Services

GM Powertrain 105 Dr. Bedford, Indiana 47421 Phone: 812-279-7404

Fax: 812-279-7258

Date: October 27, 1998

To: Bedford Police Department

From: Kimberly Dobosenski, General Motors Environmental Engineer

Subject: New Version of the GM Powertrain - Bedford, Emergency Response and

Preparedness Release Plan

The Emergency Response and Preparedness - Release Plan for the GM Powertrain - Bedford Aluminum Foundry has been updated and amended from the 1997 version. If you would like to have a copy of this Release Plan, please complete and return the following postcard.



## Worldwide Facilities Group Environmental Services

GM Powertrain 105 Dr. Bedford, Indiana 47421 Phone: 812-279-7404

Fax: 812-279-7258

Date: October 27, 1998

To: Bedford Regional Medical Center

From: Kimberly Dobosenski, General Motors Environmental Engineer

Subject: New Version of the GM Powertrain - Bedford, Emergency Response and

Preparedness Release Plan

The Emergency Response and Preparedness - Release Plan for the GM Powertrain - Bedford Aluminum Foundry has been updated and amended from the 1997 version. If you would like to have a copy of this Release Plan, please complete and return the following postcard.



## Worldwide Facilities Group Environmental Services

GM Powertrain 105 Dr. Bedford, Indiana 47421 Phone: 812-279-7404

Fax: 812-279-7258

Date: October 27, 1998

To: Dunn Memorial Hospital

From: Kimberly Dobosenski, General Motors Environmental Engineer

Subject: New Version of the GM Powertrain - Bedford, Emergency Response and

Preparedness Release Plan

The Emergency Response and Preparedness - Release Plan for the GM Powertrain - Bedford Aluminum Foundry has been updated and amended from the 1997 version. If you would like to have a copy of this Release Plan, please complete and return the following postcard.



14649 Highway 41 North • Evansville, IN 47711 (812) 867-0100 • Fax (812) 867-4478 www.koesterco.com 1-888-KOESTER

## SPECIFIC SERVICES AGREEMENT (EMERGENCY RESPONSE SERVICE) KES Job Number S0199

This Agreement entered into by and between GM Powertrain Group, GM Corporation (Bedford Plant), with its mailing address at 105 GM Drive, Bedford, IN 47421, Phone: 812-279-7308 Fax: 812-279-7258 (hereinafter referred to as "Client"), and Koester Environmental Services, Inc. (hereinafter referred to as "KES");

1. Details of Emergency. (Identify known facts and conditions that requires emergency response action.)

Annual Specific Service Agreement to provide labor, equipment and materials necessary to perform emergency spill response and clean-up for hazardous materials accidentally released into the environment by representatives or property of GM Powertrain Group, GM Corporation (hereinafter referred to as the "Emergency").

#### 2. Location:

#### Bedford Plant located at 105 GM Drive in Bedford, Indiana

- 3. Services. KES shall furnish labor, material and equipment for the Services necessary to respond to the Emergency in accordance with local, state, and federal regulations. KES shall attempt to stabilize, control or contain the Emergency within a reasonable time to prevent contamination and danger to the public and/or the environment. Actions taken by KES shall be based on the facts and information regarding the Emergency as set forth in paragraph 1 (hereinafter referred to as the "Services"). Client shall promptly inform KES in the event additional information concerning the Emergency becomes available.
- 4. Price and Billing. KES shall furnish labor, material and equipment for the Services necessary to respond to the Emergency in accordance with local, state, and federal regulations in association with the Equipment/Price List attached (see attachment A).
- 5. Unknown Conditions. Client understands and agrees that the exact Services needed to remedy the Emergency cannot be foreseen. The exact Services to be rendered will be determined by KES in consultation with participating parties pursuant to the circumstances of each situation and are hereby authorized by Client; provided, however, that if time allows, any extreme conditions not set forth in paragraph 1 of this Agreement shall be discussed with Client to determine such action to be taken.
- 6. Inability to Respond. Client understands that while KES will attempt to respond to the circumstances that may arise, KES does not guarantee that it will be able to respond to all situations.
- 7. Certifications. KES shall maintain its certification by applicable local, state and federal statutes and regulations to perform this class of environmental services.
- 8. Notices. All applicable notices of the Emergency and Services to governmental agencies or authorities are solely the responsibility of the Client unless the Client direct KES to notify appropriate entities.

GM Powertrain Group - Emergency Response Service Page 2

- Authority. Each individual executing this Agreement on behalf of the parties hereto represents and
  warrants that they are duly authorized to execute and deliver this Agreement on behalf of their
  respective companies or entities.
- 10. Miscellaneous. Client agrees and acknowledges that it shall submit all sums owed to KES under this agreement within 30 days of the date of the invoice. Client agrees to pay a 1.5% carrying charge per month on all amounts not paid within 30 days from the date of invoice. Client shall pay any and all costs and attorneys' fees that KES incurs in pursuing any collection of fees owed under this agreement.
- 11. Effective Date. This Agreement is effective immediately for one (1) year upon the execution of contract.

#### WITNESSETH THAT:

For and in consideration of the mutual promises, covenants, and agreements herein contained and agreed to be kept and performed by the parties hereby, the parties hereto do hereby mutually agree and understand the Agreement. The contract documents consist of this Agreement and the General Contract Conditions. This Agreement and the General Contract Conditions form the complete agreement of the parties. The General Contract Conditions is incorporated into this Agreement and is a part of this Agreement as if attached to this Agreement and repeated herein in its entirety. This Agreement and the General Contract Conditions represent the entire and integrated agreement between the parties hereto and supersede prior negotiations, representations or agreements, either written or oral.

KOESTER ENVIRONMENTAL SERVICES, INC.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands.

Dated: <u>January 20, 2000</u>	By: By:	Jan Schuler Business Unit Manager, Industrial Services
		Michael E. Thompson President
		Client
Dated: Jrm. 20, 2000	Ву:	Signature
		Um. Schoonmaker Printed Name
		Chrismmental Record Mgr.
		Title 1)

## ATTACHMENT A

## KOESTER ENVIRONMENTAL SERVICES, INC. Time & Materials Rates

## Revised / Effective March 29, 1998

Principal         150.00/Hr           Vice President         100.00/Hr           Sr. Manager         90.00/Hr           Geologist         65.00/Hr           Project Manager         65.00/Hr           Environmental Scientist         55.00/Hr           Engineer         60.00/Hr           Supervisor/Operator         50.00/Hr           Leadman         42.00/Hr           Field Technician         30.00/Hr           Shop Personnel         35.00/Hr           Industrial Hygienist         60.00/Hr           Waste Mgmt Personnel         50.00/Hr           Administrative Support         35.00/Hr           Drafter/Illustrator         30.00/Hr           Analyst         45.00/Hr           Estimators         45.00/Hr           Photographs         Cost + 15%           Coples         0.15/Ea           Per Diem         25.00/Man/Day           Accommodations (Hotel, etc.)         Cost + 15%           Construction Equipment:         Cost + 15%           Concrete Saw         \$78.00/Day           Air Compressor         81.00/Day           Jackhammer & Hose (1" dia.) & Bit.         45.00/Day           Pneumatic Drill         103.00/Day	Technical and Professional Staff:		
Vice President         100.00/Hr.           Sr. Manager         90.00/Hr.           Geologist         65.00/Hr.           Project Manager         65.00/Hr.           Environmental Scientist         55.00/Hr.           Engineer         60.00/Hr.           Supervisor/Operator         50.00/Hr.           Leadman         42.00/Hr.           Field Technician         30.00/Hr.           Shop Personnel         35.00/Hr.           Industrial Hygienist         60.00/Hr.           Waste Mgmt Personnel         50.00/Hr.           Administrative Support         35.00/Hr.           Drafter/Illustrator         30.00/Hr.           Analyst         45.00/Hr.           Estimators         45.00/Hr.           Photographs         Cost + 15%           Coples         0.15/Ea.           Per Diem         25.00/Man/Day           Accommodations (Hotel, etc.)         Cost + 15%           Construction Equipment:         **           Concrete Saw         \$78.00/Day           Air Compressor         81.00/Day           Jackhammer & Hose (1" dia.) & Bit.         45.00/Day           Pneumatic Drill         103.00/Day           Acetylene Torch         25.0	Principal		150,00/Hr.
Geologist	Vice President	338344	
Project Manager	Sr. Manager	***************************************	
Environmental Scientist   55,00/Hr.	Geologist	h	65.00/Hr.
Environmental Scientist   55,00/Hr.	Project Manager	***************************************	65.00/Hr.
Supervisor/Operator			55.00/Hr.
Leadman	Engineer		60.00/Hr.
Leadman	Supervisor/Operator		50.00/Hr.
Shop Personnel   35.00/Hr     Industrial Hygienist   60.00/Hr     Waste Mgmt Personnel   50.00/Hr     Administrative Support   35.00/Hr     Drafter/Illustrator   30.00/Hr     Analyst   45.00/Hr     Estimators   46.00/Hr     Photographs   Cost + 15%     Copies   0.15/Ea.     Per Diem   25.00/Mart/Day     Accommodations (Hotel, etc.)   Cost + 15%     Construction Equipment:     Concrete Saw   \$78.00/Day     Air Compressor   81.00/Day     Air Compressor   81.00/Day     Pneumatic Drill   103.00/Day     Acetylene Torch   25.00/Day     Wrecking Bail   78.00/Day     Bobcat - 900/1300 lb, capacity   141.00/Day     Extendahoe   40.00/Hr     Excavator PC220   78.00/Hr     Crane up 18 Ton   58.50/Hr     Crane up 65 Ton   150.00/Hr     Triakle Truck w/Driver   55.00/Hr     Triakle Truck w/Driver   55.00/Hr     Triakle Truck w/Driver   105.00/Hr	· · · · · · · · · · · · · · · · · · ·	\$\$\$\$\$\$\$\$\$\$############################	42.00/Hr.
Shop Personnel   35.00/Hr   Industrial Hygienist   60.00/Hr   60.00/Hr   Waste Mgmt Personnel   50.00/Hr   Ea   Administrative Support   35.00/Hr   35.00/Hr   Drafter/Illustrator   30.00/Hr   45.00/Hr   Estimators   46.00/Hr   Estimators   46.00/Hr   Photographs   Cost + 15%   Coples   0.15/Ea   Per Diem   25.00/Man/Day   Accommodations (Hotel, etc.)   Cost + 15%      Construction Equipment:   Concrete Saw   \$78.00/Day   Air Compressor   81.00/Day   Air Compressor   81.00/Day   Acetylene Torch   25.00/Day   Pneumatic Drill   103.00/Day   Acetylene Torch   25.00/Day   Wrecking Bail   78.00/Day   Wrecking Bail   78.00/Day   Extendahoe   40.00/Hr   Excavator PC220   78.00/Hr   Roller Compactor w/vibrator 66   57.00/Hr   Crane up 18 Ton   58.50/Hr   Crane up 65 Ton   150.00/Hr   Triakle Truck w/Driver   55.00/Hr   Triakle Truck w/Driver   55.00/Hr   Triakle Truck w/Driver   105.00/Hr	Field Technician	17889783333333333334	30.00/Hr.
Waste Mgmt Personnel         50.00/Hr. Ea.           Administrative Support         35.00/Hr.           Drafter/Illustrator         30.00/Hr.           Analyst         45.00/Hr.           Estimators         46.00/Hr.           Photographs         Cost + 15%           Copies         0.15/Ea.           Per Diem         25.00/Man/Day           Accommodations (Hotel, etc.)         Cost + 15%           Construction Equipment:         Cost + 15%           Concrete Saw         \$78.00/Day           Air Compressor         81.00/Day           Jackhammer & Hose (1" dia.) & Bit.         45.00/Day           Pneumatic Drill         103.00/Day           Acetylene Torch         25.00/Day           Wrecking Ball         78.00/Day           Bobcat - 900/1300 lb. capacity         141.00/Day           Extendahoe         40.00/Hr.           Excavator PC220         78.00/Hr.           Roller Compactor w/vibrator 66         57.00/Hr.           Crane up 18 Ton         58.50/Hr.           Crane up 65 Ton         150.00/Hr.           Dump Truck w/Driver         55.00/Hr.           Triaxle Truck w/Driver         65.00/Hr.	Shop Personnel	**************************************	
Administrative Support 35.00/Hr. Drafter/Illustrator 30.00/Hr. Analyst 45.00/Hr. Estimators 46.00/Hr. Estimators 46.00/Hr. Photographs Copies 0.15/Ea. Per Diem 25.00/Man/Day Accommodations (Hotel, etc.) Cost + 15%  Construction Equipment: Concrete Saw \$78.00/Day Air Compressor 81.00/Day Jackhammer & Hose (1" dia.) & Bit. 45.00/Day Pneumatic Drill 103.00/Day Wrecking Ball 78.00/Day Wrecking Ball 78.00/Day Bobcat - 900/1300 ib. capacity 25.00/Hr. Excavator PC220 78.00/Hr. Roller Compactor w/vibrator 66 57.00/Hr. Crane up 18 Ton 58.50/Hr. Crane up 65 Ton 55.00/Hr. Triaxle Truck w/Driver 55.00/Hr. Triaxle Truck w/Driver 65.00/Hr. Vacuum Truck w/Driver 105.00/Hr.	Industrial Hygienist	************************	60.00/Hr.
Drafter/Illustrator	Waste Mgmt Personnel	***************************************	50.00/Hr, Ea,
Analyst	Administrative Support	d	35.00/Hr.
Estimators	Drafter/Illustrator	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	30.00/Hr.
Photographs	Analyst	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	45.00/Hr.
Copies         0.15/Ea.           Per Diem         25.00/Man/Day           Accommodations (Hotel, etc.)         Cost + 15%           Construction Equipment:         Cost + 15%           Concrete Saw         \$ 78.00/Day           Air Compressor         81.00/Day           Jackhammer & Hose (1" dia.) & Bit.         45.00/Day           Pneumatic Drill         103.00/Day           Acetylene Torch         25.00/Day           Wrecking Ball         78.00/Day           Bobcat - 900/1300 lb, capacity         141.00/Day           Extendahoe         40.00/Hr.           Excavator PC220         78.00/Hr.           Roller Compactor w/vibrator 66         57.00/Hr.           Crane up 18 Ton         58.50/Hr.           Crane up 65 Ton         150.00/Hr.           Dump Truck w/Driver         55.00/Hr.           Triaxle Truck w/Driver         65.00/Hr.           Vacuum Truck w/Driver         105.00/Hr.	Estimators	,	46.00/Hr.
Per Diem         25.00/Man/Day           Accommodations (Hotel, etc.)         Cost + 15%           Construction Equipment:         \$78.00/Day           Concrete Saw         \$78.00/Day           Air Compressor         81.00/Day           Jackhammer & Hose (1" dia.) & Bit.         45.00/Day           Pneumatic Drill         103.00/Day           Acetylene Torch         25.00/Day           Wrecking Bail         78.00/Day           Bobcat - 900/1300 lb, capacity         141.00/Day           Extendahoe         40.00/Hr.           Excavator PC220         78.00/Hr.           Roller Compactor w/vibrator 66         57.00/Hr.           Crane up 18 Ton         58.50/Hr.           Crane up 65 Ton         150.00/Hr.           Dump Truck w/Driver         55.00/Hr.           Triaxle Truck w/Driver         65.00/Hr.           Vacuum Truck w/Driver         105.00/Hr.	Photographs	***************************************	Cost + 15%
Cost + 15%	Copies	.**************************************	0.15/Ea.
Construction Equipment:         \$ 78.00/Day           Concrete Saw         \$ 78.00/Day           Air Compressor         81.00/Day           Jackhammer & Hose (1" dia.) & Bit.         45.00/Day           Pneumatic Drill         103.00/Day           Acetylene Torch         25.00/Day           Wrecking Ball         78.00/Day           Bobcat - 900/1300 lb, capacity         141.00/Day           Extendahoe         40.00/Hr.           Excavator PC220         78.00/Hr.           Roller Compactor w/vibrator 66         57.00/Hr.           Crane up 18 Ton         58.50/Hr.           Crane up 65 Ton         150.00/Hr.           Dump Truck w/Driver         55.00/Hr.           Triaxle Truck w/Driver         65.00/Hr.           Vacuum Truck w/Driver         105.00/Hr.	Per Diem		25.00/Man/Day
Concrete Saw       \$ 78.00/Day         Air Compressor       81.00/Day         Jackhammer & Hose (1" dia.) & Bit.       45.00/Day         Pneumatic Drill       103.00/Day         Acetylene Torch       25.00/Day         Wrecking Ball       78.00/Day         Bobcat - 900/1300 lb, capacity       141.00/Day         Extendahoe       40.00/Hr.         Excavator PC220       78.00/Hr.         Roller Compactor w/vibrator 66       57.00/Hr.         Crane up 18 Ton       58.50/Hr.         Crane up 65 Ton       150.00/Hr.         Dump Truck w/Driver       55.00/Hr.         Triaxle Truck w/Driver       65.00/Hr.         Vacuum Truck w/Driver       105.00/Hr.	Accommodations (Hotel, etc.)		Cost + 15%
Air Compressor       81.00/Day         Jackhammer & Hose (1" dia.) & Bit.       45.00/Day         Pneumatic Drill       103.00/Day         Acetylene Torch       25.00/Day         Wrecking Ball       78.00/Day         Bobcat - 900/1300 lb. capacity       141.00/Day         Extendahoe       40.00/Hr.         Excavator PC220       78.00/Hr.         Roller Compactor w/vibrator 66       57.00/Hr.         Crane up 18 Ton       58.50/Hr.         Crane up 65 Ton       150.00/Hr.         Dump Truck w/Driver       55.00/Hr.         Triaxle Truck w/Driver       65.00/Hr.         Vacuum Truck w/Driver       105.00/Hr.	Construction Equipment:		
Air Compressor Jackhammer & Hose (1" dia.) & Bit		******************************	\$ 78.00/Day
Jackhammer & Hose (1" dia.) & Bit	Air Compressor	***************************************	81.00/Day
Pneumatic Drill         103.00/Day           Acetylene Torch         25.00/Day           Wrecking Bali         78.00/Day           Bobcat - 900/1300 lb, capacity         141.00/Day           Extendahoe         40.00/Hr           Excavator PC220         78.00/Hr           Roller Compactor w/vibrator 66         57.00/Hr           Crane up 18 Ton         58.50/Hr           Crane up 65 Ton         150.00/Hr           Dump Truck w/Driver         55.00/Hr           Triaxle Truck w/Driver         65.00/Hr           Vacuum Truck w/Driver         105.00/Hr	Jackhammer & Hose (1" dia.) &	Bit	
Wrecking Ball       78,00/Day         Bobcat - 900/1300 lb, capacity       141,00/Day         Extendahoe       40,00/Hr.         Excavator PC220       78,00/Hr.         Roller Compactor w/vibrator 66       57,00/Hr.         Crane up 18 Ton       58,50/Hr.         Crane up 65 Ton       150,00/Hr.         Dump Truck w/Driver       55,00/Hr.         Triaxle Truck w/Driver       65,00/Hr.         Vacuum Truck w/Driver       105,00/Hr.	· · · · · · · · · · · · · · · · · · ·		103.00/Day
Bobcat - 900/1300 lb, capacity       141.00/Day         Extendahoe       40.00/Hr.         Excavator PC220       78.00/Hr.         Roller Compactor w/vibrator 66       57.00/Hr.         Crane up 18 Ton       58.50/Hr.         Crane up 65 Ton       150.00/Hr.         Dump Truck w/Driver       55.00/Hr.         Triaxle Truck w/Driver       65.00/Hr.         Vacuum Truck w/Driver       105.00/Hr.	Acetylene Torch	40-0-0	25.00/Day
Extendahoe       40.00/Hr.         Excavator PC220       78.00/Hr.         Roller Compactor w/vibrator 66       57.00/Hr.         Crane up 18 Ton       58.50/Hr.         Crane up 65 Ton       150.00/Hr.         Dump Truck w/Driver       55.00/Hr.         Triaxle Truck w/Driver       65.00/Hr.         Vacuum Truck w/Driver       105.00/Hr.	Wrecking Ball	·····	78.00/Day
Excavator PC220   78.00/Hr.   Roller Compactor w/vibrator 66   57.00/Hr.   Crane up 18 Ton   58.50/Hr.   Crane up 65 Ton   150.00/Hr.   Dump Truck w/Driver   55.00/Hr.   Triaxle Truck w/Driver   65.00/Hr.   Vacuum Truck w/Driver   105.00/Hr.   Compact of the provided HTML   Triaxle Truck w/Driver   Compact of the provided HTML   Truck w/Driver	Bobcat - 900/1300 lb. capacity		141.00/Day
Roller Compactor w/vibrator 66       57.00/Hr.         Crane up 18 Ton       58.50/Hr.         Crane up 65 Ton       150.00/Hr.         Dump Truck w/Driver       55.00/Hr.         Triaxle Truck w/Driver       65.00/Hr.         Vacuum Truck w/Driver       105.00/Hr.	Extendahoe	***************************************	40.00/Hr.
Crane up 18 Ton       58.50/Hr.         Crane up 65 Ton       150.00/Hr.         Dump Truck w/Driver       55.00/Hr.         Triaxle Truck w/Driver       65.00/Hr.         Vacuum Truck w/Driver       105.00/Hr.	Excavator PC220	.,	
Crane up 65 Ton       150.00/Hr.         Dump Truck w/Driver       55.00/Hr.         Triaxle Truck w/Driver       65.00/Hr.         Vacuum Truck w/Driver       105.00/Hr.	Roller Compactor w/vibrator 66		57.00/Hr,
Dump Truck w/Driver 55.00/Hr. Triaxle Truck w/Driver 65.00/Hr. Vacuum Truck w/Driver 105.00/Hr.	Crane up 18 Ton	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	58.50/Hr.
Triaxle Truck w/Driver	Crane up 65 Ton	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	150.00/Нг.
Vacuum Truck w/Driver		***************************************	
Drum Vac	Vacuum Truck w/Driver	201011111111111111111111111111111111111	
	Drum Vac		12.50/Hr.

NOTE:

Construction Equipment Rates are for KES equipment. If not available, equipment will be rented and charged at rental rate costs + 15%.

Koester Environmental Services, Inc. Schedule of Fees Revised / Effective March 29, 1998 Page 2

Drilling and Drilling Support Equipment	<b>:</b>	
Mobilization	######################################	Quoted Per
		Occurrence/Dependent
		upon Equipment
Auger Rotary Drill Mounted on	Ford Chassis	155.00/Hr.
Centrifugal/Submersible Pump	-41449999992004	78,00/Day
Large Volume Pump	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	52.00/Day
Shelby Tube		16.00/Each
Split Spoon Samples		13,00/Each
• • •		
_		
Monitoring Equipment:		
Air Flow Monitor		52.00/Day
Combustible Gas Meter	***************************************	16.00/Hr.
Draeger Sampler	***************************************	16.00/Hr.
Field GC	***************************************	412.00/Day
LEL/02 Meter		103.00/Day
Metal Detector	***	78,00/Day
Photo-Ionization Detector (PID)		55.00/Day
Destantive and Cafety Equipment:		
Protective and Safety Equipment:		Cost + 10%
Cartridges		Cost + 10%
Caution Tape		Per Occurrence
EPA Level A Responder Suits		
EPA Level B	***************************************	250.00/Day/Man
EPA Level C		115.00/Day/Man
Manifold Air Supply		150.00/Day
Plastic Liner (6mil, 8mil, etc.)	·	Cost + 10%
Saranex-Chemical Suits		20.00/Each
Tyvek Suits		16.00/Each
Barricades	***************************************	42.00/Day
Cones	***************************************	2.25/Each/Day
Flashing Arrow		155.00/Day
Signs		16.00/Day
Snow Fence	***************************************	2.25/Foot/Day
Decontamination		Per Occurrence
Sampling Equipment:		
		78.00/Day
Air Sampling Pump Bailer(s)/Dedicated	***************************************	16.00/Day
	***************************************	31,00/Day
GC Sampling Equipment	***************************************	25.00/Each
Colliwassa	***************************************	16.00/Day
Hand Auger	****************	3.25/Each
Sampling Containers		J.23/Edui

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Koester Environmental Services, Inc.

Schedule of Fees Revised / Effective March 29, 1998 Laboratory Analysis: Method 8015 TPH Cost + 15% Method 8020 BTEX Cost + 15% ----------TCLP Volatiles Cost + 15% TCLP Metals Cost + 15% Full TCLP Cost + 15% **PCBs** Cost + 15% RCI Cost + 15% Materials, Expenses, Vehicles, and Mileage: Materials Actual + 20% Expenses Actual + 20% \* Truck, Pickup (unlimited miles) 68.00/Day Car (unlimited miles) 60.00/Day Mileage, Car 0.38/Mile Mileage, Pickup Truck 0.43/Mile **UST Remediation:** Permitting Disposal of Petroleum Contaminated Soil 750.00/Waste Stream Loading, Transportation, and Disposal of Non-Hazardous special solid waste. **STBD** Site Characterization and/or Investigation STBD Remedial Investigation and Feasibility Study \$TBD (based on the amount and type of contamination) Corrective Action Plan (CAP) \$TBD Demolition - Furnish labor, tools and equipment to demolish concrete slab and haul off site as follows (disposal not included): 6" thick concrete with wire mesh 1.95/Sq.Ft. 8" thick concrete with #4 rebars one mat 2.50/Sq.Ft. 12" thick concrete with #5 rebars two mats 4.50/Sq.Ft. ........... Additional backfilling to replace contaminated soil from tank excavation and repiping trenches and compaction to ASTM standard (price to include normal estimated costs to purchase, transport, and place material with standard compaction to 95% [standard proctor]): Fill sand 15.00/Ton ------Clean Dirt 18.00/Ton \* **Crushed Stone** 20.00/Ton 16.00/Ton Pea Gravel \*

Koester Environmental Services, Inc. Schedule of Fees Revised / Effective March 29, 1998

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Surface Restoration - KES will furnish labor, material, tools, equipment and supervision to perform the following:

Concrete paving with 6" thick concrete with wire mesh 6" x 6" 6/6 and 4000 PSI compressive strength after 28 days at ..... 5

5.50/Sq.Ft.

Concrete paving with 8" thick concrete with #4 rebar 12 o.c. each way, one mat and 4000 PSI after 28 days at ......

6.50/Sq.Ft.

Blacktop paving with normal strength 6" thick base of compacted crushed stone, 3" binder, 1" surface at 4.50/Sq.Ft.

Blacktop paving with high strength 10" thick base of compacted crushed stone, 4" binder, 1" surface at 6.50/Sq.Ft.

\TMRates



14649 Highway 41 North • Evansville, IN 47711 (812) 867-0100 • Fax (812) 867-4478 www.koesterco.com 1-888-KOESTER

## SPECIFIC SERVICES AGREEMENT (EMERGENCY RESPONSE SERVICE) 8E80574

This Agreement entered into by and between GM Powertrain Group, GM Corporation (Bedford Plant) with its mailing address at 105 GM Drive, Bedford, IN 47421, Contact: William Schoonmaker, PE, CHMM Phone: 812-279-7308 Fax: 812-279-7258 (hereinafter referred to as "Client"), and Koester Environmental Services, Inc. (hereinafter referred to as "KES");

1. **Details of Emergency.** (Identify known facts and conditions that requires emergency response action.)

Annual Specific Service Agreement to provide labor, equipment and materials necessary to perform emergency spill response and clean-up for hazardous materials accidentally released into the environment by representatives or property of GM Powertrain Group, GM Corporation (hereinafter referred to as the "Emergency").

2. Location.

## Bedford Plant located at 105 GM Drive in Bedford, Indiana

- 3. Services. KES shall furnish labor, material and equipment for the Services necessary to respond to the Emergency in accordance with local, state, and federal regulations. KES shall attempt to stabilize, control or contain the Emergency within a reasonable time to prevent contamination and danger to the public and/or the environment. Actions taken by KES shall be based on the facts and information regarding the Emergency as set forth in paragraph 1 (hereinafter referred to as the "Services"). Client shall promptly inform KES in the event additional information concerning the Emergency becomes available.
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- 5. Unknown Conditions. Client understands and agrees that the exact Services needed to remedy the Emergency cannot be foreseen. The exact Services to be rendered will be determined by KES in consultation with participating parties pursuant to the circumstances of each situation and are hereby authorized by Client; provided, however, that if time allows, any extreme conditions not set forth in paragraph 1 of this Agreement shall be discussed with Client to determine such action to be taken.
- 6. **Inability to Respond.** Client understands that while KES will attempt to respond to the circumstances that may arise, KES does not guarantee that it will be able to respond to all situations.
- 7. **Certifications.** KES shall maintain its certification by applicable local, state and federal statutes and regulations to perform this class of environmental services.
- 8. **Notices.** All applicable notices of the Emergency and Services to governmental agencies or authorities are solely the responsibility of the Client unless the Client direct KES to notify appropriate entities.

- 9. Authority. Each individual executing this Agreement on behalf of the parties hereto represents and warrants that they are duly authorized to execute and deliver this Agreement on behalf of their respective companies or entities.
- Miscellaneous. Client agrees and acknowledges that it shall submit all sums owed to KES under this Agreement within 30 days of the date of the invoice. Client agrees to pay a 1.5% carrying charge per month on all amounts not paid within 30 days from the date of invoice. Client shall pay any and all costs and attorneys' fees that KES incurs in pursuing any collection of fees owed under this agreement.
- 11. **Effective Date.** This Agreement is effective immediately for one (1) year upon the execution of contract.

#### WITNESSETH THAT:

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IN WITNESS WHEREOF, the parties hereto have hereunto set their hands.

Dated: September 24, 1998

By: W.A. (Andy) Shoulders
Director of Hermat/Field Operations

By: Eric B. Dodd
President/CEO

GM Powertrain Group, GM Corporation

By: Signature

Lim Schoonmaker

Printed Name

EN. Minuagan

Title

Koester Environmental Services, Inc.

KOESTER ENVIRONMENTAL SERVICES, INC.

## KOESTER ENVIRONMENTAL SERVICES, INC. EMERGENCY RESPONSE PRICE LIST

	QUANTITY	DESCRIPTON	UNIT	STANDARD	OVERTIME
14000		MOBILIZATION	LS	\$500.00	\$500.00
CODE		DESCRIPTON	UNIT	STANDARD	OVERTIME
14100		PERSONNEL			
14101		PROJECT MANAGER	HOUR	\$88.00	\$88.00
14102		ENVIRONMENTAL SCIENTIST	HOUR	\$65.00	\$65.00
14103		SAFETY/SUPERVISOR	HOUR	\$50.00	\$50.00
14104		ENVIRONMENTAL TECHNICIAN	HOUR	\$42.00	<b>\$</b> 63.00
14105		EQUIPMENT OPERATOR/TRUCK DR.		\$29.00	<b>\$</b> 43.50
14106		TECHNICIAN	HOUR	\$19.00	\$28.00
14107	. <del></del>	PER DIEM	DAY	75.00	
CODE		DESCRIPTON	UNIT	STANDARD	OVERTIME
14200		TRANSPORTATION EQUIPMENT			
14201		AUTOMOBILE	DAY	\$ 65.00	
14202		PICK UP	DAY	\$ 72.00	
14203		CREW CAB PICKUP TRUCK	DAY	\$ 88 00	
14204		FOUR WHEEL DRIVE PICKUP TRUCK		\$ 90.00	
14205		SERVICE TRUCK VAC TRUCK (3,200 GAL)	DAY HOUR	\$ 90.00 \$115.00	
		BOX TRUCK (3,200 GAL)	DAY	\$115.00 \$350.00	
14207 14208		EMER. RESPONSE VAN W/TRAILER	DAY	\$300.00 \$300.00	
		EMER. RESPONSE TRAILER (24FT)	DAY	\$240.00	
14210		EQUIPMENT TRAILER	DAY	\$ 80.00	
		DUMP TRUCK SINGLE AXLE	HOUR	\$ 50.00	
14212		DUMP TRUCK TANDEM/TRI-AXLE	HOUR	\$ 65.00	
14213		SEMI TRACTOR	DAY	\$330.00	
l		LOW-BOY/FLAT BED TRAILER	DAY	\$160.00	
14215		FUEL/MECHANICS TRUCK	DAY	\$ 98.00	
14216		OFFICE TRAILER	DAY	\$ 65.00	
14217		DECON TRAILER	DAY	\$310.00	
CODE T		DESCRIPTON	UNIT	STANDARD	OVERTIME
14300					
14300		RECOVERY EQUIPMENT			
14301		RECOVERY EQUIPMENT WORK BOAT DIESEL TUG (30 FT )	12 HOUR	\$1140 00	
		<del>-</del>	12 HOUR 12 HOURS	\$1140 00 \$400.00	
14301 14302		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.)			
14301 14302 14303 14304		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM)	12 HOURS 12 HOURS 12 HOURS	\$400.00 \$350.00 \$600.00	
14301 14302 14303 14304		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM)	12 HOURS 12 HOURS 12 HOURS 12 HOURS	\$400.00 \$350.00 \$600.00 \$540 00	
14301 14302 14303 14304 14305 14306		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00	
14301 14302 14303 14304 14305 14306 14307		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19")	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT	
14301 14302 14303 14304 14305 14306 14307 14308		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9")	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT	
14301 14302 14303 14304 14305 14306 14307 14308 14309		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY PER DAY PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00	
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON)	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY PER DAY PER DAY PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$70.00	(7 DAY MINIMUM)
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON)	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY PER DAY PER DAY PER DAY PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00	(7 DAY MINIMUM)
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON)	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00	(7 DAY MINIMUM)
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (2,000 GALLON)	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00	(7 DAY MINIMUM)
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 150.00	(7 DAY MINIMUM)
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3")	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 50.00 \$ 50.00	(7 DAY MINIMUM)
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4")	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 50.00 \$ 50.00 \$ 100.00	(7 DAY MINIMUM)
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 50.00 \$ 50.00 \$ 15.00	
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 50.00 \$ 50.00 \$ 100.00	(7 DAY MINIMUM)  OVERTIME
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317 CODE		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS  DESCRIPTON	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 150.00 \$ 50.00 \$ 15.00 \$ 15.00	
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317 CODE		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 150.00 \$ 50.00 \$ 15.00 \$ TANDARD	
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317 CODE 14400 14401 14402		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS  DESCRIPTON  HEAVY EQUIPMENT BACKHOE 4X4 EXTENDAHOE 4X4	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 150.00 \$ 150.00 \$ 15.00 \$ 15.00 \$ 15.00	
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317 CODE 14400 14401 14402 14403		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS  DESCRIPTON  HEAVY EQUIPMENT BACKHOE 4X4 EXTENDAHOE 4X4 TRACKHOE PC 150	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 150.00 \$ 50.00 \$ 15.00 \$ TANDARD	
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317 CODE 14400 14401 14402 14403 14404		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS  DESCRIPTON  HEAVY EQUIPMENT BACKHOE 4X4 EXTENDAHOE 4X4	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY DAY DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 150.00 \$ 150.00 \$ 15.00 \$ TANDARD -	
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317 CODE 14400 14401 14402 14403 14404 14405		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS  DESCRIPTON  HEAVY EQUIPMENT BACKHOE 4X4 EXTENDAHOE 4X4 TRACKHOE PC 220	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 150.00 \$ 150.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00	
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317 CODE 14400 14401 14402 14403 14404		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS  DESCRIPTON  HEAVY EQUIPMENT BACKHOE 4X4 EXTENDAHOE 4X4 TRACKHOE PC 150 TRACKHOE PC 220 FRONT-END LOADER	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY DAY DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 150.00 \$ 150.00 \$ 150.00 \$ 15.00 \$	
14301 14302 14303 14304 14305 14306 14307 14308 14309 14310 14311 14312 14313 14314 14315 14316 14317 CODE 14400 14401 14402 14403 14404 14405 14406		WORK BOAT DIESEL TUG (30 FT ) WORK BOAT (19 FT.) WORK BOAT (17 FT.) OIL SKIMMER (36" DRUM) OIL SKIMMER (18" DRUM) DIESEL DRIVE HYDRAULIC POWER PK SKIRTED BOOM (19") SKIRTED BOOM (9") DRUM VAC FRAC TANK (20,000 GALLON) POLY TANK (2,000 GALLON) CONTAINMENT POND (7,000 GALLON) CONTAINMENT POND (2,000 GALLON) POLYPROPYLENE DIAPHRAGM PUMP DIAPHRAGM PUMPS (2"/3") TRASH PUMPS (3"/4") ANCHORS  DESCRIPTON  HEAVY EQUIPMENT BACKHOE 4X4 EXTENDAHOE 4X4 TRACKHOE PC 150 TRACKHOE PC 220 FRONT-END LOADER HIGH LIFT BULLDOZER	12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS 12 HOURS PER DAY	\$400.00 \$350.00 \$600.00 \$540.00 \$300.00 \$1.35/FT \$1.10/FT \$100.00 \$ 70.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 150.00 \$ 150.00 \$ 150.00 \$ 15.00 \$	

14500         EQUIPMENT AND           14501         CHAIN SAW           14502         BLOWERS           CODE         DESCRIE           14500         EQUIPMENT AND           14503         GENERATOR	PTON UNIT STANDARD OVERTIME
14502         BLOWERS           CODE         DESCRIB           14500         EQUIPMENT AND	TOOLS
CODE DESCRII 14500 EQUIPMENT AND	DAY \$45.00
14500 EQUIPMENT AND	DAY \$45.00
*	PTON UNIT STANDARD OVERTIME
*	
	DAY \$200.00
14504 SATELLITE LIGHT	***
14505 LIGHT TOWER	DAY \$ 50.00
14506 SPARK PROOF TOO	• • • • • • • • • • • • • • • • • • • •
14507 HAND TOOLS	DAY \$ 45.00
14508 MERCURY VAC	DAY \$150.00
14509 FLAIRING EQUIPM	
CODE DESCRIB	PTON UNIT STANDARD OVERTIME
14500 EQUIPMENT AND	
14510 SAFETY SHOWER	DAY \$75.00
14511 EYE WASH STATIO	· · · · · · · · · · · · · · · · · · ·
	ECTION EQUIPMENT
14601 LEVEL A PROTECT	· · · · · · · · · · · · · · · · · · ·
A CALL D DDOTTOT	***************************************
14602 LEVEL B PROTECT	· · · · · · · · · · · · · · · · · · ·
14604 FLASH PROTECTIO	****
14605 TURNOUT GEAR	DAY \$100.00
	HING APPARATUS DAY \$150.00
CODE DESCRIP	
	KITS - MONITORING EQUIPMENT
14701 CHLORINE KIT A	PER DAY \$500.00
14702 CHLORINE KIT B	PER DAY \$500,00
14703 CHLORINE KIT C	PER DAY \$500.00
14'04 HAZMAT SPILL KIT 14/05 MSA PASSPORT	PER DAY \$100.00
14°06 PHOTO IONIZATION	* · · · · · · · · · · · · · · · · · · ·
THE STATE OF THE STATE OF A CT	
14707 SENSIDYNE DRAGE 14708 PH PAPER	PER DAY \$ 10.00
14709 PCBS TEST KIT	PER DAY \$ 50.00
14710 WEATHER STATION	
CODE DESCRIP	
14800 EXPENDABLES	
14801 CAUTION TAPE	PER ROLL \$15.00
14802 ABSORBENT COMP	
14803 ABSORBENT ROLL	PER ROLL \$135.00
14804 ABSORBENT PADS	PER BALE \$ 50.50
14805 ABSORBENT BOOM	1 4" PER BOOM \$ 47.50
14806 ABSORBENT BOOM	18" PER BOOM \$49.00
14807 STEEL 85 GALLON I	
14808 POLY 95 GALLON D	
14809 STEEL 55 GALLON I	
14810 STEEL 8 GALLON D	
14811 PLASTIC PAILS 5 GA	PER ROLL \$ 75.00
14811 PLASTIC PAILS 5 GA	EACH \$ 10.60
14811 PLASTIC PAILS 5 GA	EACH \$18.90
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1	EACH \$30.60
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2	EACH \$50.00
14811	
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2         14815       CPF-3         14816       GREEN ACID SUITS	
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2         14815       CPF-3         14816       GREEN ACID SUITS         14817       SARANEX SUITS	EACH \$65.00 EACH \$20.00
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2         14815       CPF-3         14816       GREEN ACID SUITS         14817       SARANEX SUITS	EACH \$65.00 EACH \$20.00
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2         14815       CPF-3         14816       GREEN ACID SUITS         14817       SARANEX SUITS         14818       DISPOSAL BOOTIES         14819       PCB GLOVES	EACH \$65.00 EACH \$20.00 EACH \$5.00 PER PAIR \$25.00
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2         14815       CPF-3         14816       GREEN ACID SUITS         14817       SARANEX SUITS         14818       DISPOSAL BOOTIES         14819       PCB GLOVES         14820       SURGICAL GLOVES	EACH \$65.00 EACH \$20.00 EACH \$5.00 PER PAIR \$25.00
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2         14815       CPF-3         14816       GREEN ACID SUITS         14817       SARANEX SUITS         14818       DISPOSAL BOOTIES         14819       PCB GLOVES         14820       SURGICAL GLOVES         14821       PVC GLOVES	EACH \$65.00 EACH \$20.00 EACH \$5.00 PER PAIR \$25.00 PER BOX \$25.00 PER PAIR \$8.00
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2         14815       CPF-3         14816       GREEN ACID SUITS         14817       SARANEX SUITS         14818       DISPOSAL BOOTIES         14819       PCB GLOVES         14820       SURGICAL GLOVES         14821       PVC GLOVES         14822       SILVER SHIELD GLO	EACH \$65.00 EACH \$20.00 EACH \$5.00 PER PAIR \$25.00 PER BOX \$25.00 PER PAIR \$8.00  OVES PER PAIR \$5.00
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14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2         14815       CPF-3         14816       GREEN ACID SUITS         14817       SARANEX SUITS         14818       DISPOSAL BOOTIES         14819       PCB GLOVES         14820       SURGICAL GLOVES         14821       PVC GLOVES         14822       SILVER SHIELD GLO         14823       NEOPRENE GLOVES         14824       NEOPRENE BOOTS         14825       YELLOW POLY ROP	EACH \$65.00 EACH \$20.00 EACH \$5.00 PER PAIR \$25.00 PER BOX \$25.00 PER PAIR \$8.00 DVES PER PAIR \$5.00 PER PAIR \$5.00 PER PAIR \$5.00 PER PAIR \$5.00 PER PAIR \$12.00 PER PAIR \$75.00
14811       PLASTIC PAILS 5 GA         14812       PLASTIC ROLL         14813       CPF-1         14814       CPF-2         14815       CPF-3         14816       GREEN ACID SUITS         14817       SARANEX SUITS         14818       DISPOSAL BOOTIES         14819       PCB GLOVES         14820       SURGICAL GLOVES         14821       PVC GLOVES         14822       SILVER SHIELD GLO         14823       NEOPRENE GLOVES         14824       NEOPRENE BOOTS         14825       YELLOW POLY ROP	EACH \$65.00 EACH \$20.00 EACH \$20.00 EACH \$5.00 PER PAIR \$25.00 PER BOX \$25.00 PER PAIR \$8.00 DVES PER PAIR \$5.00 S PER PAIR \$12.00 PER PAIR \$75.00 PER PAIR \$75.00 PER PAIR \$75.00
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## ATTACHMENT A

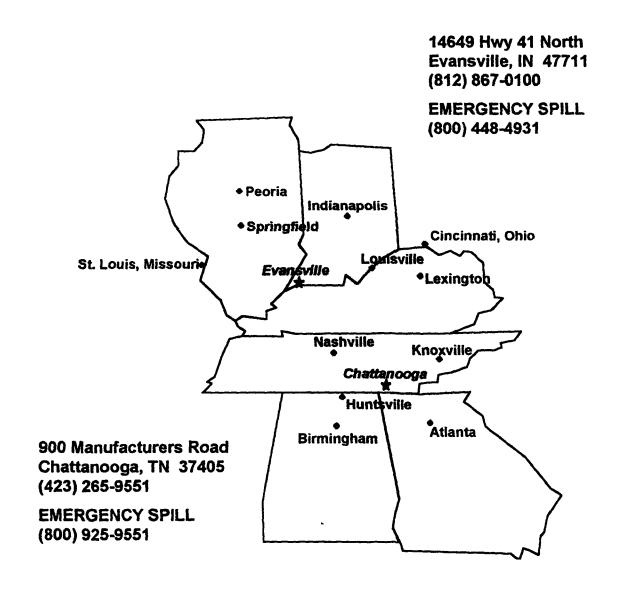
CODE	DESCRIPTON	UNIT	STANDARD	OVERTIME
14900	COMMUNICATIONS		· <del></del>	
14901	MOBILE PHONE	PER MINUTE	<b>\$</b> 1.50	
14902	PORTABLE RADIOS	PER DAY	\$ 80.00	
14903	MARINE RADIOS	PER DAY	\$ 80.00	
14904	FAX MACHINE	PER DAY	\$ 55.00	
14905	FIELD COMPUTER	PER DAY	\$ 75.00	
CODE	DESCRIPTON	UNIT	<del></del>	STANDARD
14950	OTHER SERVICES			<del></del>
14951	EXPENDABLE PURCHASES AND/OI	R EQUIPMENT RENTA	AL .	COST + 20%
14952	EQUIPMENT REPLACEMENT			COST + 20%

## ALL HOURLY RATES ARE PORTAL TO PORTAL

I HAVE REVIEWED AND AGREE TO PAY THE ABOVE LISTED PRICES FOR ANY SERVICES OR ITEMS USED DURING THIS EMERGENCY RESPONSE.

SIGNED_		DATE
	(REPRESENTATIVE)	
WITNESS		DATE
•	(KOESTER ENVIRONMENTAL SERVICES)	

# ENVIRONMENTAL EMERGENCY SPILL RESPONSE AREA



#### **GENERAL CONTRACT CONDITIONS**

Dient and Koester Environmental Services, Inc., an Indiana corporation (hereinafter referred to as "KES"), agree that the following provisions shall be a part of their Agreement a conjunction with all terms contained in the Specific Services Agreement, which is incorporated herein by reference

- I Definitions. The following definitions shall apply to this Agreement and all interpretations of the relationship between the parties
  - 11 "Client" refers to the individual(s) or entity which enters into this agreement with KES for the purpose of securing the Services of KES
  - 1 2 "Specific Services Agreement" is the Specific Services Agreement executed by and between the Client and KES that outlines the specific activities which KES is to perform for the Client
  - 1.3 "Site" is the location where KES is to perform Services according to the description in the Specific Services Agreement.
  - 1.4 "Services" are those activities which the Client has obtained KES to perform
  - 1 5 "Contract Documents" includes the Specific Services Agreement and these General Contract Conditions The General Contract Conditions is incorporated into the Specific Services Agreement and is a part of the Specific Services Agreement. The Specific Services Agreement and the General Contract Conditions represent the entire agreement between the parties hereto
  - 16 "Agreement" shall include the terms and conditions of this General Contract Conditions and those terms and conditions of the Specific Services Agreement

#### 2 Client Responsibilities.

2 1 Site Access. Client shall provide KES, its employees, agents, and subcontractors with right-of-entry and access to all areas of the Site and Client hereby specifically warrants to KES that all KES employees shall have the right to enter and remain at the Site while KES is performing Services thereon for the Client Client further agrees to cooperate with KES to keep all areas under KES's direction free of all unauthorized persons and all property within relative distance of KES's activities free from activities of the Client which may disturb, inhibit or endanger KES's activities and to ensure the safety of all ongoing operations to the extent of the Client's control over actions in any such areas

#### **KES's Responsibilities.**

- 3.1 Standard of Performance. KES shall perform all work in accordance with commonly accepted scientific, environmental and engineering practices and in a professional and workmanlike manner
- 3 2 Confidentiality. KES shall hold confidential all business or technical information obtained or generated in the performance of Services for the Client. KES shall not disclose any such information without the Client's consent except to the extent reasonably believed necessary for
  - (a) Compliance with professional standards of conduct for the preservation of public health, safety, and welfare,
  - (b) Compliance with a court order or government directive, or

KES is under no obligation or responsibility to actively oppose the compelled disclosure of any confidential information. If the Client actively opposes any proceeding to obtain confidential information, it shall do so at its own cost, including the cost of actively opposing any proceedings intended to compel KES to disclose information.

KES also agrees to execute appropriate confidentiality agreements of Client as required

- 4 Indemnification. Each party shall indemnify, defend and hold harmless, and hereby forever releases, the other party and its affiliates, directors, officers, shareholders, employees and agents from and against any and all claims, causes of action, and/or other costs which all or any one of them incur or for which all or any of them are held liable in connection with or rising from its negligent acts, omissions or misconduct.
- Force Majeure. In no event shall KES have responsibility or liability to Client for any failure or delay in performance by KES which results, directly or indirectly in whole or in part from any causes or circumstances beyond the reasonable control of KES. Such causes and circumstances include, but not limited to, fires, floods, strikes nots sabotage, explosion, adverse weather conditions not reasonably anticipated, unavoidable casualities, unavailability or insufficiency of labor materials, supplies equipment transportation or services, process shut down, equipment malfunction, acts of God, acts or omissions of Client, court orders, acts, orders or regulations of any governmental agency, loss of permits and delays in mail or delivery services. Work stoppage or interruption in the performance of Services under this Agreement caused by any of the above events may result in additional costs beyond those outlined by KES in the Specific Services Agreement, which shall entitle KES to an adjustment in the charges and fees for Services under this Agreement.
- 6 Disclaimers and Limitations of Liability.
  - 6.1 KES shall not be responsible for any non-compliance or offense which results from the action or inaction on behalf of governmental agencies, or of any change in regulations or laws relating to these Services or relating to the Site and any environmental contamination or danger caused thereby
  - 6 2 KES may rely on all representations and information furnished by the Client to make decisions or recommendations regarding actions to be taken in the performance of this Agreement, and KES shall have no liability whatsoever for any occurrence that is a result, directly or indirectly, of misinformation, miscalculations, inaccurate statements, or false representations made by the Client, its employees or agents, to KES, whether such information was given negligently or intentionally
  - 6 3 KES shall not be responsible for applications, notifications or any other disclosures that may be required by any local, state or federal governmental agencies unless KES specifically agrees to execute such documents in the Specific Services Agreement.
  - KES may advise the Client regarding the status of the environmental conditions of the Site and potential courses of action for the Client. These recommendations shall in no way be construed as giving KES the authority to make or control environmental decisions, nor shall any recommendations be considered as legal advise, but only as information based on KES's activities
  - 6 5 KES will be responsible to have marked utility lines or conduits in accordance with standard utility company guidelines to the property. The Cilent shall be responsible to locate, verify existence and mark the location of all utility lines or conduits within the construction Site/area. KES will not be liable for damage to any utility lines or conduits, which have not been properly, located and marked within the construction. Site/area.
  - Under no circumstances should this Agreement or any actions by KES cause KES to hold any of the incidents of ownership, title or responsibility for any of the waste, waste materials, substances, chemicals, contaminated products or property, or by-products or property located at the Site. Nothing contained within this Agreement shall be construed or interpreted to cause KES to hold the status of a owner or operator, generator or a storage, treatment or disposal facility (as those terms are defined by RCRA or any other federal, state or local law, statute, rule or regulation governing the generation, treatment, storage or disposal of hazardous

## Page 2 SENERAL CONTRACT CONDITIONS

wastes; solid wastes or special wastes) Under all events KES is an independent contractor providing Services at the direction of the Client. If the Services include the transportation of waste materials from Client's premises or facilities. KES may evaluate and arrange possible transporters and disposal sites for Client's use and subject to the Client's direction. Under RCRA and the Comprehensive Environmental Response. Compensation and Liability Act of 1980.42.U.S.C. 9601 et ser amended ("CERCLA"), and regulations thereunder, Client, as the generator or owner of the waste or contaminated property, shall maintain the ultimate legal lice for the evaluation and "selection" of the proper transporters and disposal sites for its waste. Client hereby acknowledges that it shall be solely responsible as the party who arranges for the transportation and disposal of any waste or property in connection with this Agreement.

- 6.7 KES shall not be responsible for any release, leak, spill or possible contamination that occurs while KES is on the Site or adjacent property which is not caused directly by the negligence of KES in its performance under this Agreement
- 6.8 KES shall not be responsible for any contamination of products or raw materials which results from the proper operation of KES's activities including but not limited to the removal of underground storage tanks, appurtenances thereto, soils, sludge, liquids, or any other waste materials, chemicals or petroleum products
- 6.9 KES accepts no responsibility for the removal, treatment, disposal, or disposition of any hazardous materials that should be discovered during its operations or investigations that were not previously anticipated and addressed in the execution of the Specific Services Agreement.
- 6 10 Liability under this Agreement shall apply only if the Client notifies KES in writing of its claim against KES within one (1) year of the completion of the Services and such claim sets forth in reasonable detail all the facts upon which it is based. For purposes of this Agreement, KES will be considered to have completed its Services when KES vacates the Site, location and facilities where it was performing Services for a period of ten (10) consecutive calendar days
- 7 Substitution. KES shall have the right to substitute substantially equivalent equipment and/or methodology for the performance of Services at its sole discretion.
- 8 Termination. KES may immediately terminate and cancel this Agreement and cease performing Services without liability to the Client under the following circumstances
  - (a) Client fails to make any payment to KES when such payment to KES is due, or
  - (b) The discovery of any unknown or undisclosed conditions including, but not limited to, the presence of hazardous, toxic or other materials for which KES has not explicitly agreed to perform investigative or remedial activities in the Specific Services Agreement.
- 9 Governing Law. The validity, interpretation and performance of this Agreement shall be governed by and construed in accordance with the laws of the State of Indian accordance.
- Waiver. No waiver of the terms, conditions and/or covenants of this Agreement shall be binding and effective unless the same shall be in writing signed by the parties. No waiver by either party of any provision or condition of this Agreement, or a waiver of a subsequent breach of the same provision or condition, unless such waver is expressed in writing signed by the parties.
- 1 Successors and Assigns. This Agreement shall inure to the benefit of and be binding upon the successors and permitted assigns of the parties
- 2 Payment and Collection. Client shall remit to KES all monies owed under this Agreement, as set forth in the Specific Services Agreement, within thirty (30) days of the date of the invoice. The Client shall pay to KES a 1.5% per month carrying fee on the total sum of any amount not paid within said thirty (30) days. In the event that KF obtains legal services to pursue the collection of the sums owed under this Agreement, then the Client shall pay all reasonable attorneys' fees, paralegal fees, accoun fees, and other costs and expenses incurred by KES in such collection efforts.

# Attachment L

Arrangements with Clean-Up Contractors

## MBO Work - Spill Response

orking with Randy Angle in Purchasing on this project.

te March - Randy called to inform me that he had received my request for an MBO and wanted to know what spill response groups we wanted to set u the MBO. I mentioned a few firms we had worked with in the past, namely Spill Response of IN and Koester Environmental. He said he would query other plants in the area to see if they had a particular responder that they would recommend.

ril 28, 2000 - Left Randy a message to see if he had gotten enough information from the other plants or if he needed any help in collecting additional armation. He is on vacation until May 1.

ne 6, 2000 - Called Randy to ask where he was at collecting information on Spill Contractors. He told me that Tim Renner from Delphi recommended ritage and then Spill Recovery of IN. Lee Langzlot recommended SSI. Randy will call SSI and Heritage to get a pricing list. He will lean towards usin I though since the MBO is for GM. He may get blankets for both...

y 25, 2000 - Received MBO for spill response!!! MBO #GMB06463 for Spill Recovery of Indiana. Will use price list dated 12-5-98 received by Randy m Stan Lucas (pages 1-4). Ft. Wayne and Metal Fab in Indy will also be assigned on this MBO - no other plants showed interest and he didn't want t it for their reply any longer.

\*Ojects
001 Latus Development Corp.

## Attachment M

Certificate of Liability Insurance from External Spill Responders

ACORD CE	RTIFICATEOFL		\$25.88K~5	9 778 W. W.	NCE (	·* (	DS/31/2000
PRODUCER (317)464-5000	FAX (317)464-5001	· TH	SCE	CONSERS NO	RIGHTS UPON THE C	INFO	RMATION CATE
AcGowan Insurance Grou	p. Inc.	HO	LDER	. THIS CERTIFIC	ATE DOES NOT AMEN	D. EXT	END OR
1850 Market Tower		1	ERT		AFFORDED BY THE PO		S BELOW.
10 West Market Street	•			*****	ES AFFORDING COVE		
Indianapolis, IN 46204	Ext:	122 : A		American I	nternational Spec	:1817	y
Attn: Emily Colwell INSURED		: COMP		Commerce &	7 m d e e e		
Spill Recovery C	f Indiana, Inc.	В	ANT	Commerce &	Industry		
P.o. Box 34337		COMP		Montoe Guar	anty Insurance		
Indianapolis, IN	46234-0337	C					
		COMP. D	WY				•
INDICATED, NOTWITHSTANDIN CERTIFICATE MAY BE ISSUED	POLICIES OF INSURANCE LISTED BELC IG ANY REQUIREMENT, TERM OR COND OR MAY PERTAIN, THE INSURANCE AFF IS OF SUCH POLICIES. LIMITS SHOWN M	FORDED BY THE F	NTRAC	T OR OTHER DOC	UMENT WITH RESPECT TO	DLICY I	A THIS
CO TYPE OF INSURANCE	POLICY MUMBER	POLICY EFF DATE (MM/	ECTIVE DDYY)	POLICY EXPIRATION DATE (MM/DD/YY)	N	wiTS	• •
GENERAL LIABILITY	1	•			· GENERAL AGGREGATE		2.000.00
X COMMERCIAL GENERAL LIABI	uny [	•			PRODUCTS - COMPJOP AG		2.000.00
, CLAMS MADE X DC	CUR PRO 2678197	05.000			PERSONAL & ADV BUURY	8	2,000 00
OWNER'S & CONTRACTOR'S P	ROT :	06/03/	2000	06/03/2001	EACH OCCURRENCE		2,00 0
X Professional Lial	oi [	•			FIRE DAMAGE (Any one fire)	8	50.00
	:				MED EXP (Any one person)	8	5.00
AUTOMOBILE LIABILITY  X ANY AUTO	•				. COMBINED SINGLE LIMIT	8	2,000.00
ALL OWNED AUTOS		į			: BODILY INJURY	•	•
B	EA7665895	: : 06/03/2	000	06/03/2001	(Per person)		
HIRED AUTOS				00/03/2001	BODLY NURY	•	,
NON-OWNED AUTOS					(Per accident)		
					PROFERTY DAMAGE	8	
GARAGE LIABILITY					AUTO ONLY - EA ACCIDENT	-	
ANY AUTO		<b>!</b>			OTHER THAN AUTO ONLY.	\$ / `	`
		:			EACH ACCIDENT	r <b>s</b>	•
EXCESS LIABILITY					AGGREGATE	: 8	
UMBRELLA FORM	:			· <u>-</u> -	EACH OCCURRENCE	8	
OTHER THAN UMBRELLA FORM	•	:			AGGREGATE	8	
WORKERS COMPENSATION AND							
EMPLOYERS' LIABILITY	Ī				TORY LIMITS ER		
THE PROPRIETORY	. WOO 0208723	: 01/18/2	000	01/18/2001	EL EACH ACCIDENT	8	300000
PARTNERS/EXECUTIVE OFFICERS ARE EX	CL.				EL DISEASE - POLICY LIMIT	8	\$00000
OTHER					EL DISEASE - EA EMPLOYEE	*	\$00000
	•						
	:						
SCRIPTION OF ADDR							
Scription of Operations/Locations	Wehicles/Special Items						
ERTIFICATE HOLDER							
ENTIFICATE HOLDER	minister with the wilder	CANCEL	LATIC	N			
		SHOUL	D ANY O	F THE ABOVE DESCR	IBED POLICIES BE CANCELLE	D BEFO	RE THE
		EXPIRA	TION DA	TE THEREOF, THE IS	BUING COMPANY WILL ENDEA	VOR TO	MAIL
		_30_	DAYS 1	WRITTEN NOTICE TO	THE CERTIFICATE HOLDER NA	NED TO	THE LEFT
		BUT FA	LURE T	O MAIL SUCH MOTICE	SHALL IMPOSE NO DELIGATI	I RG HOL	LABILITY
		OF ANY	FUND U	PON THE COMPANY 1	TS AGENTS OR REPRESENTA	TIVES	
		AUTHORIZE	DREPA	LSENTATIVE			
ORD 25-S (1/95)	recognition of the control of the co	Enlly (	olwe	11 Grile	Colwell		
					EACORD C	ORPO	RATION 1922

## ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM.TDMY)

ACURD CERTIFICATE OF EIA	, 0,,00,,000				
ODUCER (317)464-5000 FAX (317)464-5001 CGowan Insurance Croup, Inc850 Market Tower	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.  INSURERS AFFORDING COVERAGE				
D West Market Street ndianapolis, IN 46204					
SURED Spill Recovery Of Indiana, Inc.	INSURERA: American International Specialty				
P.o. Box 34337	INSURER B. Commerce & Industry				
Indianapolis, IN 46234-0337	INSURERC: Monroe Guaranty Insurance				
	INSURER D				
1	INSURER E				

VERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

TYPE OF INSURANCE POLICY NUMBER	DATE (MM/DD/Y)	DATE (MM/DD/YY)	LiM	ITS	
GENERAL LIABILITY PRD 2678197	06/03/2000	06/03/2001	EACH OCCURRENCE	\$	2,000.00
X COMMERCIAL GENERAL LIABILITY	1	j	FIRE DAMAGE (Any one tire)	\$	. 50.00
CLAIMS MADE X OCCUR	(		MED EXP (Any one person)	5	5,00
X Professional Liab			PERSONAL & ADV INJURY	\$	2,000.00
X Pollution Liab		•	GENERAL AGGREGATE	5	2,000,00
GEN'LAGGREGATE LIMIT APPLIES PER:			PRODUCTS - COMPIOP AGO	5	2,000.00
POLICY JECT LOC					•
AUTOMOBILE LIABILITY CA7665895	06/03/2000	06/03/2001	COMBINED SINGLE LIMIT (Ea accord)	5	2,000,00
ALL OWNED AUTOS SCHEDULED AUTOS			BODILY INJURY  (Per person)	5	
MIRED AUTOS NON-OWNED AUTOS			BODILY INJURY (Per socident)	s	
			PROPERTY DAMAGE (Per accident)	s	
GARAGE LIABILITY			AUTO ONLY - EA ACCIDENT	5	
OTUA YAA			OTHER THAN	3	
			AUTO ONLY AGO	3	
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OCCUR CLAIMS MADE	ļ .		AGGREGATE	\$	
				5	
DÉDUCTIBLE				5	
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VORKERS COMPENSATION AND WOO 0208723	01/18/2001	01/18/2002	X YCAY LUZITS ER	1	
MPLOYERS' LIABILITY	ì	1	F L E-CHACCIDENT		500.000
	1		E L L'SEASE - EA EMPLOYS	: 1	500.000
	1		E L D-SEASE - POLICY LIMIT	1 5	500.000
OTHER	ı				
RIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED					

tificate Holder is Additional Insured - Owner, Contractor or Lessee. \$2,500 Deductible applies General Liability: \$5,000 Deductible applies to Pollution and Professional Liability.

RTIFICATE HOLDER	ADDITIONAL INSURED; INSURER LETTER	CANCELLATION
		SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE
		Expiration date thereof, the issuind company will endeavor to mail
		30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT.
		BUT FAILURE TO MAIL SUCH HOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY
		OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.
•		Emily Colwell Complex Colwell
ORU 25-5 (7/97)		CACURU CORPORATION 198

## Attachment A

Spill Response Team

# SPILLERESPONSETEAM

NAME	PHONE NUMBER	DEPARTMENT
Eric Prenevau	812-279-7216	Safety
Eva Smith	812-279-7261	Training
Kim Dobosenski	812-279-7404	Environmental
Tom Shirley	812-279-7374	Maintenance
Kenny Knust	812-279-7370	Maintenance
Duane Cunningham	812-279-7370	Maintenance
James Simmerman	812-279-7370	Maintenance
Mike Corbin	812-279-7027	Maintenance
James Wells	812-279-7004	Maintenance

## Attachment B

**Emergency Response Contract Companies** 

## CHUIDIG CHUNGERICHN KUNNDE CUNTRA COLONID MUDN THE TOP AND THE

McIntrye Brothers Construction 1020 Seventh Street Bedford, IN 47421 (812) 275-5956

Spill Recovery of Indiana 10635 US Highway 136 Indianapolis, IN 46234 (317) 291-3972

Koester Environmental Services Inc. 14649 Highway 41 North Evansville, IN 47711 (812) 867-0100

## Attachment C

Levels of Hazardous Material Spills

## LEVELS OF HAZARDOUS MATERIALS SPILLS

There are four levels of hazardous materials spills. They are determined by their level of air contaminant and the equipment necessary to respond as described in Attachment B of 29 CFR Part 19140.120. Refer to Attachment C of this plan for the corresponding Personal Protection Equipment.

## Level A Protection Should be Worn When

- The hazardous substance has been identified and requires the highest level of protection for skin, eyes, and respiratory system based on either the measured high concentration of atmospheric vapors, gases or particulates; or site operations and work functions involve a high potential for splash, immersion, or exposure to unexpected vapors, gases, or particulates of materials that are harmful to skin or capable of being absorbed through the skin.
- Substances with a high degree of hazard to the skin are known or suspected to be present, and skin contact is possible; or
- Operations are being conducted in confined, poorly ventilated areas, and the absence of conditions requiring Level A have not been determined.

Air contaminant: 500 ppm to 1,000 ppm above background

## Level B Protection should be worn when

- The type and atmospheric concentration of substances have been identified and require a high level of respiratory protection, but less skin protection.
- The atmosphere less than 19.5 percent oxygen; or
- The presence of incompletely identified vapors or gases is indicated by a direct reading organic vapor detection instrument, but vapors and gases are not suspected of containing high levels of chemicals harmful to skin or capable of being absorbed through the skin.

Air containment: 5 ppm to 500 ppm above background

## Level C Protection should be worn when

- The atmospheric contaminants, liquid splashes, or other direct contact will not adversely affect or be absorbed through any exposed skin.
- The types of air containment's have been identified, concentrations measured and an air-purifying respirator is available that can remove contaminants; and
- All criteria for the use of air-purifying respirators are met.
- Air containment: Background to 5 ppm above background

## Level D Protection should be worn when

- The atmosphere contains no known hazard; and
- Work functions preclude splashes, immersion, or the potential for unexpected inhalation of or contact with hazardous levels of any chemicals.
- Air contaminant: 0 to Background

The personnel at GM Bedford are only trained to First Responder Awareness and Operations Level. They will be expected to respond to spills requiring Level D protection only. The Emergency Response Contractors have been retained to respond to spills requiring Level A, B, and C protection equipment.

## Attachment D

Personal Protective Equipment

## PERSONAL PROTECTIVE EQUIPMENT LEVELA

- Supplied-air respirator approved by the Mine Safety and Health Administration (MSHA) and National Institute for Occupational Safety and Health (NIOSH).
- Respirators may be:

Pressure-demand, self-contained breathing apparatus (SCBA)

or

Pressure-demand, air line respirator (with escape bottle for Immediately Dangerous to Life and Health IDLH or potential for IDLD atmosphere)

- Fully encapsulating chemical-resistant suit
- Coveralls
- Gloves (inner), chemical resistant
- Boots, chemical-resistant, steel toe and shank
- Hard hat (under suit)
- Disposable gloves and boot covers (worn over fully encapsulating suit)
- Cooling unit or thermal underwear as weather dictates
- 2-way radio communication
- Seal all joints between protective clothing hems with duct tape

## PERSONAL PROTECTIVE EQUIPMENT, LEVEL B

Supplied-air respirator (MSHA/NIOSH approved)

**SCBA** 

or

Airline respirator (pressure demand)

- Chemical-resistant clothing (overalls and long-sleeved jacket; hooded, one or two-piece chemical splash suit; disposable chemical-resistant, one-piece suits)
- Coveralls
- Gloves (outer), chemical resistant
- Gloves (inner), chemical resistant
- Boots (outer), chemical resistant (disposable)
- Hard hat
- 2-way radio communication
- Use duct tape to secure all joints between clothing items such as cuffs

## Appendix 1

Certification of the Applicability of the Substantial Harm Criteria

Certification of the Applicability of the Substantial Harm Criteria

	Facility Name:
	GM Powertrain Bedford
	Facility Address:
	105 GM Drive
	Bedford, IN 47421
	_
	-
1.	Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?
	Yes NoX
2.	Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?
	Yes NoX_
3.	Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?
	Yes NoX
4.	Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake?
	Yes Nox
5.	Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?
	Yes No
	Standard Environmental Practice - SPCC Plans 7/10/97

GM Considerated

#### Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information. I believe that the submitted information is true, accurate, and complete.

Signature

Title Plant Manager

Name John Thomas

Date 11-25-98

(please type or print)

## OIL STORAGE CAPACITY WORKSHEET<sup>1</sup>

Capacity Item:							
1. Bulk Oil Storage							
Tanks	5750	gallons					
Drums	2750	gallons					
Totes	14400	gailons					
Other	N/A	gallons					
SUBTOTAL 1:	22900		GALLONS				
2. Waste Water Treatment I	Facility						
Skim Oil Tanks	2000	gallons					
Other Tanks (with concentrated oil)	N/A	gallons					
Remaining Treatment Facility (% oil * capacity)	1000	gailons					
SUBTOTAL 2:	3000		GALLONS				
3. Threshold Determinations							
TOTAL OF SUBTO	GALLONS						
[If <u>under 500,000 gallons</u> , enter total at bottom of page 2 in category (A), no need to do steps 4 & 5.]							

<sup>&</sup>lt;sup>1</sup> Please attach all reference data and any capacity tables (e.g., material inventory tables found in SPCC Plans) used in the oil storage calculations to show how the summation was derived.

## OIL STORAGE CAPACITY WORKSHEET (PAGE 2)

4. Coolant Tra	ansfer Systems (%	oil * system	capacity)	
In-Plant	Process Operations	S	gallons	
In-Plant	Piping		gallons	
SUBTO	OTAL 4:		GALI	LONS
5. Machinery	Hydraulic System	ns		
Equipme	ent Reservoirs	<del></del>	gallons	
Transfor	mers		gallons	
Other Si Equipme	gnificant ent / Systems		gallons	
SUBTO	OTAL 5:	· · · · · · · · · · · · · · · · · · ·	_ GALLONS	3
[Enter su	btotals 4 & 5 at bot	tom in catego	ory (B)]	•
Total Oil Stora	ge Capacity:			
A) TOTAL	OF SUBTOTALS	1 & 2:	25,900	GALLONS
B) TOTAL	OF SUBTOTALS	4 & 5:		GALLONS
C) TOTAL	L OF SUBTOTA	LS 1,2,4, &	<b>≿ 5</b> :25,900	GALLONS

## Appendix 2 PCB Addendum

# GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA RELEASE PLAN PCB ADDENDUM

PCBs were used in the past in the hydraulic equipment on-site. After significant clean-up efforts in the plant, and significant testing of the hydraulic fluid, there is no known remaining PCB liquid (i.e. liquid containing greater than 50 ppm PCBs) on-site. However, if PCBs above 50 ppm are discovered in used hydraulic fluid, it will be placed in the PCB storage area, located in the waste management area.

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## Appendix 3

Emergency Spill Response Plan (HAZWOPER)

## GENERAL MOTORS CORPORATION BEDFORD PLANT BEDFORD, INDIANA EMERGENCY RESPONSE PLAN (HAZWOPER)

#### PURPOSE

This HAZWOPER Plan was designed to minimize potential hazards to human health or the environment from any unplanned sudden or non-sudden release of a hazardous substance. It was developed in compliance with the Code of Federal Regulations 29 CFR 1910.120. The Plan outlines the steps necessary to effectively respond to an emergency.

GM Bedford takes every precaution in preventing spills. However, if a spill occurs the designated Maintenance Supervisors, the Emergency Coordinator, and the Health & Safety Contacts will act at the First Responder Operations Level and determine if outside help is needed. The Maintenance Supervisors, the Emergency Coordinator, or the Health & Safety Contacts will contact outside contractors to act as the spill response team, if necessary.

The Plan will be reviewed annually by representatives from the Environmental Engineering and Health and Safety Departments. Revisions to the program will be made on an as-needed basis. The HAZWOPER plan is a stand alone document and is separate from the SPCC Plan.

## DEFINITION

Emergency response or responding to emergencies means a response effort by employees from outside the immediate release area or by other designated responders (e.g., mutual-aid groups, local fire departments, etc.) to an occurrence which results or is likely to result in an uncontrolled release of a hazardous substance. Responses to incidental releases of hazardous substances where the substance can be absorbed, neutralized or otherwise controlled at the time of release by employees in the immediate release area or by maintenance personnel are not considered to be emergency responses. Responses to releases of hazardous substances where there is no potential safety or health hazard (e.g., fire, explosion or chemical exposure) are not considered to be emergency responses.

#### EMERGENC ECONUROR CONVERC

The Safety Conference Room serves as the Emergency Command Center. The emergency number is 7333 and is staffed 24-hours a day by Security Personnel. In case of a fire or explosion, fire alarm pullboxes are located throughout the plant and can be activated to signal the Security Office of the location of the fire or explosion.

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## SPILL RESPONSE TEAM REQUIREMENTS

#### Training

Participants of the spill response team, which includes members of the safety, maintenance and environmental departments, attend initial training as detailed in 29 CFR 1910.120 and are able to demonstrate competency in the specific level of training. Team members receive annual refresher training of sufficient content and duration to maintain their level of competency. The training records are maintained in the Training Department.

#### Medical Surveillance

All members of the spill response team undergo medical surveillance prior to assignment and at least every 12 months unless the Plant Medical Director believes a longer interval is appropriate; not longer than every other year. Refer to Attachment A for a list of the spill response team.

#### Respirators

All members of the spill response team are able to consistently pass respirator fit test. No beard growth of greater than one day is the guideline for facial hair as one day's growth may interfere with the respirator to face seal.

Bedford employees act only to First Responder Operations Level and therefore will not be required to use respirators.

## SPILLRESPONSETLAND

In a plant emergency, all members of management are responsible for providing leadership assistance and for implementing precautions to contain and minimize the effects of a natural or man-made emergency or disaster on the personnel and property under their control. Refer to Attachment A for a listing of the Spill Response Team and Attachment B for the Emergency Response Contract Companies.

#### Skilled Support Personnel

Personnel, not necessarily an employer's own personnel who are skilled in the operation of certain equipment such as mechanized earth moving or digging equipment or crane and hoisting equipment, and who are needed temporarily to perform immediate emergency support work are not required to meet the training for the employer's regular employees. These personnel should be given an initial briefing at the site prior to participation in any emergency response.

Employees, who, in the course of their regular job duties, work with and are trained in the hazards of specific hazardous substances, and may be called upon to provide technical advice or assistance at a hazardous substance release. Specialist employees are trained to varying levels of responsibility. If on-site employees are not trained to the varying levels of spill response, outside contractors will be called upon to assist in an emergency. The different levels of training for the spill response team consist of:

#### First Responder Awareness Level

First responder at the awareness level are individuals who are likely to witness or discover a hazardous substance release and who have been trained to initiate an emergency response sequence by notifying the proper authorities of the release. They would take no further action beyond notifying the authorities. First responder at the awareness level shall have sufficient training or have had sufficient experience to objectively demonstrate competency in the following areas:

- An understanding of what hazardous substances are, and the risks associated with them in an incident.
- An understanding of the potential outcomes associated with an emergency created when hazardous substances are present.
- The ability to recognize the presence of hazardous substances in an emergency.
- The ability to identify the hazardous substances, if possible.
- An understanding of the role of the first responder awareness individual in the employer's emergency response plan including site security and control and the U.S. Department of Transportation's Emergency Response Guidebook.
- The ability to realize the need for additional resources, and to make appropriate notifications to the communication center.

Although all employees at Bedford Powertrain have received some awareness training in what to do in the event of a hazardous material release, only some employees (e.g. the spill response team) are trained to the First Responder Awareness Level.

#### First Responder Operations Level

First responder at the operations level are individuals who respond to releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby person, property or the environment from the effects of the release. They are trained to respond in a defensive fashion without actually trying to stop the release. Their function is to contain the release from a safe distance, keep it from spreading and prevent exposures.

The GM Bedford Powertrain emergency coordinator (i.e. environmental engineer) and alternate coordinators (i.e. designated Maintenance Supervisors and Health & Safety Contacts) are trained to the First Responder Operations Level.

#### Hazardous Materials Technician

Hazardous materials technicians are individuals who respond to releases or potential releases for the purpose of stopping the release. They assume a more aggressive role than a first responder at the operations level in that they will approach the point of release in order to plug, patch or otherwise stop the release of a hazardous substance.

If necessary, General Motors Bedford hires contract companies to respond as Hazardous Materials Technicians.

#### Hazardous Materials Specialists

Hazardous materials specialists are individuals who respond with and provide support to hazardous materials technicians. Their duties parallel those of the hazardous materials technician, however, their duties require a more directed or specific knowledge of the various substances they may be called upon to contain. The Hazardous Materials Specialist also acts as the site liaison with Federal, state, local and other government authorities in regards to site activities.

If necessary, General Motors hires contract companies to respond as Hazardous Materials Specialists.

#### On Scene Incident Commander

S 14

Incident commanders assume control of the incident scene beyond the First Responder Awareness Level. It is the responsibility of the Incident Commander to contact outside emergency personnel if deemed necessary. Telephone numbers of outside contractors that may assist in clean-up and response are located in Attachment B.

If necessary, General Motors hires contract companies to respond as the On Scene Incident Commander.

#### EMERGENCY PLANNING

Environmental Engineering Department has established contacts with local police, fire departments and outside emergency response contractors for use in the event an emergency condition which exists beyond the ability of the on-site spill response team members.

#### Emergency Recognition and Prevention

#### Procedures and Training

The Bedford Plant has developed procedures to be followed in order to minimize the potential for an unintentional release of hazardous materials or hazardous wastes. The procedures are in common use by the Bedford Plant employees and are integral part of the annual training program given to new and current employees.

#### Security

Security guards are present at the facility 24 hours a day. The guards control all entry to and departures from the plant. The entire GM Powertrain Bedford facility is fenced with guarded access gates. The facility is well lit on the exterior as well as the interior of the plant. A phone is available in the hazardous waste accumulation area as a means of direct communication.

#### Emergency Alarm System

A warning or alarm system will be utilized in the event an evacuation is necessary. The warning system consists of a plant wide annunciation system. An alarm system will be used to distinguish the need for evacuation or the all clear. Refer to the Disaster Preparedness Plan for the disaster code system.

#### Spill Discovery

Any employee who discovers or is involved in a spill or release of chemical materials or hazardous waste shall:

- 1. Direct all people to immediately leave the area if the spill or release presents an immediate hazard to health or safety.
- 2. Immediately stop the leaking material if there is sufficient knowledge of the spilled material and no immediate danger to personnel.
- 3. Contain the spilled material using any available means, including diking, absorbents, dirt, etc., if there is sufficient knowledge of the spilled material and no immediate danger to personnel.

- 4. Call Security at 7333. The caller should be prepared to provide the following information:
  - Location of spill
  - Site topography and accessibility (i.e., confined space, open areas, soil, paved area, etc.)
  - Type of spill
    - 1. a spill to storm system off plant property
    - 2. a spill to sanitary sewer off plant property
    - 3. a spill to storm system that remains on plant property (reaches soil or storm sewers)
    - 4. a spill that does not reach soil or storm sewer
    - 5. a spill by railroad
  - Specific information as to the material spilled, such as product name, ingredients, order number, use, hazard (i.e., flammability, corrosiveness, etc.)
  - Total quantity released
  - Amount, if any, that entered the storm sewer drain/system
  - Any injuries or ill effects
  - Number of people and equipment at hand to assist in cleanup
  - Containment action taken

## EMERGENCY-RESPONSE PROGEDURES TO THE STATE OF THE STATE O

When notification to the Security Department is made as detailed above, a member of the spill response team (i.e. Maintenance Supervisor, Emergency Coordinator, or Health & Safety Contact) will be dispatched to the scene. This person will assume responsibility at the First Responder Operations Level and make the determination if the incident represents a HAZWOPER emergency response as defined by this plan. At the time it is determined that a HAZWOPER emergency response is required, the designated person will make contact with the Security Consòle Officer to advise of the findings.

#### Personal Protection Equipment

Based upon the results of the preliminary site evaluation, an ensemble of Personal Protection Equipment (PPE) will be elected and used during initial site entry which will provide protection to a level of exposure below permissible exposure limits. If the

preliminary site evaluation does not produce sufficient information to identify hazards or suspected hazards of the site, an ensemble providing protection equivalent to Level B PPE will be provided as minimum protection. Refer to Attachment C and D for the different Levels of Hazardous Material Spills and Personal Protection Equipment.

Since GM Bedford only has employees responding at the First Responder Operations Level, only Level D personal protective equipment will be required. When outside agencies are called, they will assume responsibilities for their own personal protective equipment.

#### Spill Response Equipment

The following spill control and cleanup equipment is available at the plant:

A 300 gallon fluid collection system (Scrubber Vac) and tractor with a backhoe are available through the Maintenance Department. Oil absorption material is available in the old A-Crib area located in the southeast section of the Die Cast Building. Spill kits are available at the Fire Brigade Area, the Bulk Storage Area, Wastewater Treatment and the Paint Booth. Additional booms and absorbent pillows are also available at the wastewater treatment plant.

#### The following is a list of items in the spill kits:

(Paint Booth, Wastewater Treatment Plant, and Bulk Storage Spill Kits)

- 12-3" X 46" HAZ-MAT Socks
- 6-3" X 10' HAZ-MAT Socks
- = 2 10' Dikes
- 7-16" X 17" Pillows
- 75-Mat Pads
- 10 Temporary Disposal Bags & Ties

(Fire Brigade Area Large Response Cart)

- 14-3" X 46" HAZ-MAT Socks
- 3-3" X 10' HAZ-MAT Socks
- 2 10' Dikes
- 7-16" X 17" Pillows
- 2-5 lb. Bags of Pulp
- 100-Mat double-weight Pads

#### ■ 15 Temporary Disposal Bags & Ties

Note: Shovels are also available in the area near the Spill Kit.

#### The following is a list of items on the fire wagon and equipment cart:

- Shovel
- 1 Axes
- City adapter
- Gloves 1 dozen
- 100 ft. rope
- 2 helmets
- Megaphone
- 2 crow bars

The following is a list of the Blood Borne Pathogens supplies and locations of the cabinets:

#### Locations of cabinets

- #1 Die Cast North in the aisle
- #2 Pistons by heat treat oven by supervisors desk.
- #3 Tool Room hallway by supervisor desk.
- #4 Die Cast South behind scale.
- #5 Maintenance office wall outside.
- #6 Melting going west wall of melting office.

#### <u>Supplies</u>

- 5 Personal Protective Kits that contain Head covers, masks, gowns, shoe covers, red biohazard bags, paper towels, antiseptic wipes and rubber gloves.
- 5 Small spill kits that contain Red biohazard bags, rubber gloves, antiseptic wipes.
- 5 large spill kits 2 Red biohazard bags, paper towels, antiseptic wipes, many rubber gloves.
- CPR biohazard bags, antiseptic wipes, one-way breathing mask, steril 4X4's and rubber gloves.

#### Emergency Response Sequence

Security will contact all required personnel in accordance to the internal notification flow chart (Refer to the Internal/External Notification Section) and maintenance personnel will initiate all required immediate response. These responses may include, but are not limited to:

- Activate internal facility alarms and communications systems, where applicable, to notify facility personnel;
- Mobilize the security section or initiate spill response procedures, as necessary;
- Notify appropriate local agencies with designated response roles if their help is needed.

The Spill Response Team must immediately identify the character, source, quantity, and extent of any released materials. The identification may be performed by observation or by review of records, labels, or placards.

Some of the responsibilities of the Spill Response Team are:

#### Evacuation

The Spill Response Team must assess possible hazards to human health and the environment. If the assessment indicates that the incident could threaten human health and/or the environment within the facility, the Spill Response Team:

- Orders all or portions of facility operations to be halted as required, and
- Orders facility evacuation or partial evacuation as required.

#### Confinement

Confinement is defined as those procedures taken to keep a material in a specific or local area.

 Land releases should be confined by such methods as diking; blocking sewer openings, drains or ditches; and adsorbing or neutralizing runoff.

#### Determination of the Size and Source of the Leak

The Spill Response Team must identify the type and location of the leak.

#### Isolation of the Source of the Leak

It may be possible to isolate the source to better control and lessen the spread of the hazard.

#### Containment

Containment of a leak is defined as those procedures performed to keep the material in its container(s). Containment is accomplished by overpacking (placing a damaged container into a larger container), plugging, patching, or transferring the material to another container.

#### TO VIOLET ON CONTROL OF THE VIOLENCE OF THE VI

Medical aid is available on-site 24 hrs each work day. A doctor is on-site Monday through Friday for 4 hours.

#### DECONTAMINATION

As the types of chemical materials used at the Bedford Plant (i.e., resins, oils, acids and caustics) are easily identifiable if spilled and site contamination with an unidentifiable material is unlikely.

At all times during the spill clean up, the incident commander will ensure that provisions are in place to minimize contamination of surrounding material, equipment, floors and property. As a final point in the spill clean up process, floors, pavement, equipment, personal protective equipment, etc., must be disposed of or cleaned properly.

## Property

All floors, material, pavement, etc., must be thoroughly cleaned/neutralized to rid the area of contamination and prevent others from contacting the contaminated surface. All materials used for cleaning/neutralizing must be contained and placed in a holding receptacle such as drum for final disposal.

#### Equipment

All equipment used during the spill clean up must be thoroughly cleaned/neutralized to rid it of contamination and prevent others from contacting the contaminate when it is reused. If any equipment can not be clean/neutralized, the equipment will be placed in a holding receptacle such as a drum for final disposal.

#### Personal Protective Equipment

As spill clean up personnel leave the spill site and is ready to remove contaminated personal protective equipment not able to be cleaned/neutralized, they will remove contaminated equipment and place into a holding receptacle such as a drum for final disposal.

#### POST EMERGENCY RESPONSE ACTION

#### Critique of Emergency Response

At the conclusion of the emergency response, active and advisory personnel involved with the response will discuss the incident. The purpose of this discussion will be to determine possible methods to prevent a future occurrence, positive efforts of the response and response failures which need to be addressed and improved upon.

#### Waste Disposal

Environmental Engineering will direct proper methods for packaging and disposal of the material, equipment and personal protective equipment.

#### Spill Response Equipment Inventory

The Engineering Department will ensure provisions are made to inventory the spill response carts and spill supplies. They will initiate steps to restock used materials.

#### OMICULIO)

If it becomes necessary to evacuate the facility, or portion hereof, due to a release of a chemical material, the Disaster Preparedness Plan, will be implemented. The plan designates certain safe areas in which employees are to be assembled.

## PERSONAL PROTECTIVE EQUIPMENT LEVEL C

- Air-purifying respirator, full-face, canister-equipped (MSHA/NIOSH approved)
- Chemical-resistant clothing (coverall; hooded, one-piece or two-piece chemical splash suit; chemical -resistant hood and apron; disposable chemical-resistant coveralls)

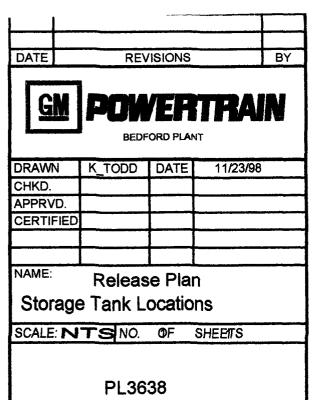
(4) 'P'

- Coveralls
- Gloves (outer), chemical-resistant
- Gloves (inner), chemical-resistant
- Boots (outer), chemical-resistant, steel toe and shank
- Hard hat
- Escape mask
- 2-way radio communication

## PERSONAL PROTECTIVE EQUIPMENT LEVELD

- Coveralls
- **■** Gloves
- Boots/shoes or chemical splash goggles
- Hard Hat (face shield)





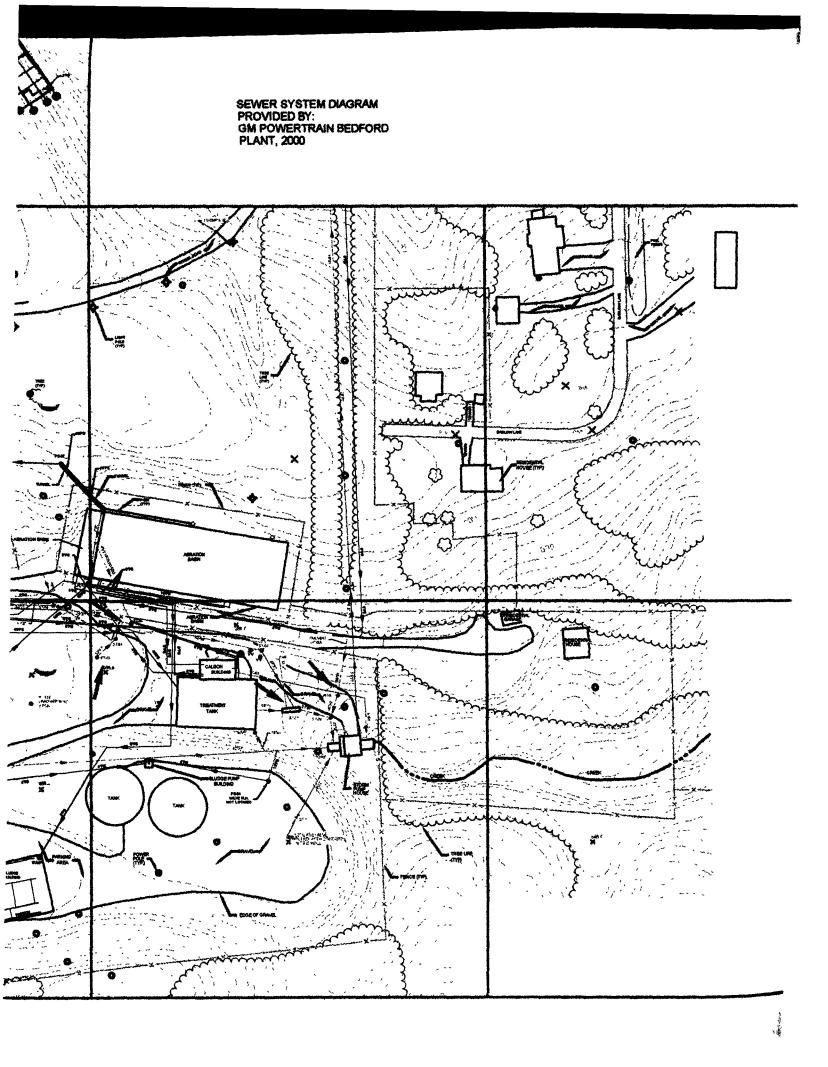
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#### APPENDIX B.4

#### BEDFORD FACILITY SEWER SYSTEM LAYOUT



**APPENDIX B.5** 

NPDES PERMIT

GREG ETZEL KMUY O Brent M. Mill D. Williams JEly J. OGDEN

1330 West Michigan Street P. O. Box 1964

#### STREAM POLLUTION CONTROL BOARD

September 25, 1985

#### VIA CERTIFIED MAIL

Mr. Glen Ohl, Environmental Coordinator General Motors Corporation Central Foundry Division Bedford Plant P.O. Box 271 Bedford, IN 47421

Dear Mr. Ohl:

ZECENED 32/01/2018

Re: NPDES Permit No. IN 0003573
Bedford Foundry

Your application for a National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with Sections 402 and 405 of the Federal Water Pollution Control Act as amended by PL 92-500 and PL 95-217 (33 U.S.C. 1251, et seq.), and Public Law 100, Acts of 1972, as amended (IC 13-7, et seq., the "Environmental Management Act"). The enclosed NPDES Permit covers your facility which utilizes aluminum die casting and molding processes and that discharges into the Bailey Branch of Pleasant Run Creek. All discharges from this facility shall be consistent with the terms and conditions of this permit.

One condition which needs to be clearly understood concerns violation of the effluent limitations in the permit. Exceeding the limitations constitutes a violation of the permit and may subject the permittee to criminal or civil penalties. (See Part II A.2.) It is therefore urged that your office and treatment operator understand this part of the permit.

It should be noted that several changes have occurred in the permit since the 30-day public notice period. These changes are itemized on page 24 of the Fact Sheet for your review.

It should also be noted that any appeal must be filed under procedures outlined in 330 IAC 5-16. The appeal must be initiated by filing with the Stream Pollution Control Board a request for an adjudicatory hearing within 30 days of receipt of this letter.

317/633=0838.

Very truly yours,

Earl A. Bohner

Technical Secretary

RAK/bt

Enclosures

cc: Chief, Permit Section U.S. EPA Region V Lawrence County Health Department

#### INDIANA STREAM POLLUTION CONTROL BOARD AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended by P.L. 92-500 and P.L. 95-217 (33 U.S.C. 1251 et seq., the "Act"), and Public Law 100, Acts of 1972, as amended (IC 13-7, et seq., the "Environmental Management Act"), GENERAL MOTORS CORPORATION, CENTRAL FOUNDRY DIVISION, is authorized to discharge from a facility which produces aluminum die castings and permanent molded products and is located on North Jackson Street, Bedford, Indiana, to receiving waters named an unnamed tributary to the Bailey Branch of Pleasant Run Creek in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I and II hereof.

The permit shall become effective thirty-five (35) days from the date of signature of the Technical Secretary.

This permit and the authorization to discharge shall expire at midnight August 31, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Indiana Stream Pollution Control Board no later than 180 days prior to the date of expiration.

Signed this 23 day of <u>Septembe</u>, 1985, for the Indiana Stream Pollution Control Board.

Technical Secretary

PERMIT EFFECTIVE 10/28/85

#### TREATMENT FACILITY CLASSIFICATION

The discharger has a Class D industrial wastewater treatment plant, classified in accordance with 320 IAC 3-10.1, Classification of Water and Wastewater Treatment Plants.

#### PART I

#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning with the effective date of this
permit and lasting until the expiration date of this permit, the
permittee is authorized to discharge from outfall(s) 002 (Carbon
Column effluent). Such discharge shall be limited and monitored
by the permittee as specified below:

#### Discharge Limitations

kg/day (1bs/day)			Other Limi	tationa	Monitoring Requirement		
Effluent	Daily	Daily	Daily	Daily	_	quirement Sample	
Characteristic	Average	<u>Maximum</u>	Average	Maximum	Frequency	Type	
Flow (MGD)					5 X Weekly		
Total Suspended Solids			10 mg/l	15 ma/1	3 X Weekly	24-Hr.	Comm
Oil and Grease			10 mg/1	15 mg/l 10 mg/l	2 X Weekly	Grab	comp.
Total Copper				0.06 mg/l	Weekly	24-Hr.	Comp
Total Lead				0.05 mg/l	Weekly	24-Hr.	_
Total Zinc			0.2 mg/1°	0.73 mg/1	Weekly	24-Hr.	•
Total Phenols			0.2 26/ 2	0.75 116, 1	weenly		оошр .
(4AAP)				0.1  mg/l	3 X Weekly	24-Hr.	Comp.
Total Toxic					<b>4</b>		
Organics**					Semi-annually	24-Hr.	Comp.
Total Residual					•		•
Chlorine*	(Monito	r for a per	iod of 6 mon	ths)	2 X Monthly	Grab	
Polychlorinated	•	-			•		_
Biphenyls				0.001  mg/l	3 X Weekly	24-Hr.	Comp.
Ammonia (as N)*	(Monito	r for a per	iod of 3 mon	ths)	Weekly	24-Hr.	Comp.
TBOD <sub>5</sub>				10  mg/1	3 X Weekly	24-Hr.	Comp.
1,1,1-Trichloro-							
ethane*	(Monito	r for a per	iod of 3 mon	ths)	2 X Monthly	24-Hr.	Comp.
Tetrachloro-							
ethylene*	(Monit	or for a pe	riod of 3 mo	nths)	2 X Monthly	24-Hr.	Comp.

Water treatment additives in use have been reviewed and do not appear to contain toxic materials in significant amounts. In the event that changes are to be made in the use of water treatment additives contributing to outfall 002, then the Permittee shall notify the Indiana Stream Pollution Control Board as required by Part II of this permit.

- wis monitorie should be the tripe. Page 3 of 17
Permit No. IN 0003573

\*The above noted parameterish are to be monitored to determ

the end of this sampling period, the permittee may request, in writing, a review of these requirements. Upon review by the ISPCB, monitoring requirements may be deleted, if appropriate, without public notice or opportunity of hearing. Alternatively, the permit may be modified, after public notice and opportunity for hearing, to include appropriate effluent limitations.

\*\*Toxic Organic Pollutant Monitoring. For one year beginning on the effective date of this permit, the permittee shall complete a semi-annual monitoring program (2 sampling events) at the treatment plant effluent for the purpose of further characterizing the discharge of toxic organic pollutants. The following shall be specifically analyzed for:

Priority Pollutant No.	Chemical Name		
011	1,1,1-Trichloroethane		
085	Tetrachloroethylene		

Additional specific pollutants may be added to the above list by the (State Agency) based upon information provided by the toxic organic pollutant management plan as required by Part I.D. of this Permit. At least two grab samples for volatile pollutants and either an 8-hour or a 24-hour composite sample for acid and base/neutral pollutants shall be obtained on each monitoring day. Wastewater samples shall be prepared and analyzed by GC-MS in accordance with U.S. EPA approved methods 624 and 625. In addition to the quantitative analysis for the priority pollutants, a reasonable attempt shall be made to identify and quantify any additional substances indicated to be present in the extracts by peaks on the reconstructed gas chromatograms (total ion plots) more than 10 times higher than the adjacent peak-to-peak background noise. Identification shall be by reference to the EPA/NIH computerized library of mass spectra, with visual confirmation by an experienced analyst. Quantification may be an order-of-magnitude estimate based upon comparison with an internal standard.

After review of the results of the toxic organic pollutant monitoring program, the (State Agency) may propose effluent limitations for specific toxic organic pollutants, or continue or modify the monitoring program as appropriate.

- a. The pH shall not be less than 6 nor greater than 9. The pH shall be monitored as follows: by a 5 X weekly grab sample.
- b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.
- c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples taken in compliance with the monitoring requirements above shall be taken at a point representative of the discharge but prior to entry into an unnamed tributary to the Bailey Branch of Pleasant Run Creek.

#### 2. During the namind heginning on the effective deterior this

to discharge from outfall(s) 003 (Overflow from stormwater retention lagoon). Such discharge shall be limited and monitored by the permittee as specified below:

#### Discharge Limitations

ba/dan

	(lbs/day)		Other Limitations		Monitoring Requirement	
Effluent Characteristic	Daily Average	Daily <u>Maximum</u>	Daily Average	Daily Maximum	Measurement Frequency	Sample Type
Flow (MGD)*			~~		Measure when	sampling
Oil and Grease** Polychlorinated					Weekly	Grab
Biphenyls				~-	Daily	24-Hr. Comp.

The permittee is required to provide the ISPCB within 30 days from the effective date of this permit the pumping rate or draw down rate at which the contents of the storm lagoon are fed into the biological treatment system. The storm lagoon is to be drawn down at a yet to be established rate continuously whenever precipitation reduces the reserve capacity below the 15-year, 24-hour storm volume.

\*The permittee shall act to maintain a reserve capacity in the stormwater retention lagoon greater than or equal to that sufficient to contain a 15-year, 24-hour storm event on the lagoon and contributing areas. Dry weather discharge is prohibited. Discharge from Outfall 003 is permitted only when a severe storm event or combination of storm events results in an overflow of the retention lagoon despite the permittee's efforts to maintain the storage capacity as noted. In the event of an overflow, the permittee shall monitor the discharge as noted above.

- \*\*If oil and grease is measured in the effluent in detectable quantities, the source of such discharge is to be investigated and eliminated if feasible, and the findings reported to the Indiana Stream Pollution Control Board. Samples shall be taken withinfifteen minutes from the commencement of the overflow unless an underflow discharge pipe is used.
  - a. The pH shall not be less than 6 nor greater than 9. The pH shall be monitored as follows: by a weekly grab sample.
  - b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.
  - c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

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d. Samples taken in compliance with the monitoring requirements above shall be taken at a point representative of the discharge but prior to entry into an unnamed tributary to the Bailey Branch of Pleasant Run Creek.

#### 1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

#### 2. Reporting

The permittee shall submit monitoring reports (DMR-1 Form) to the Indiana Stream Pollution Control Board containing results obtained during the previous month and shall be postmarked no later than the 28th day of the month following each completed monitoring period. The first report shall be submitted by the 28th day of the month following the month in which the permit becomes effective.

If there is to occur a substantial period of time during which there will be no discharge from an authorized outfall, then the permittee may submit a written request to the Indiana Stream Pollution Control Board for relief from reporting requirements. The Indiana Stream Pollution Control Board may then suspend reporting requirements without public notice or opportunity for public hearing.

The Regional Administrator may request the permittee to submit monitoring reports to the Environmental Protection Agency if it is deemed necessary to assure compliance of the permit.

#### 3. Definitions

#### a. Daily Average

- (1) Weight Basis The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was discharging. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
- (2) Concentration Basis The "daily average" concentration means the arithmetic average (proportional to flow) of all daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily determination of concentration shall be the arithmetic average (weighted by flow value) of all the samples collected during the calendar day.

#### b. "Daily Maximum" Discharge

- (1) Weight Basis The "daily maximum" discharge means the total discharge by weight during any calendar day.
- (2) Concentration Basis The "daily maximum" concentration means the daily determination of concentration for any calendar day.
- c. 24-Hour Composite Sample--Consists of at least four individual flow-proportional samples of wastewater which are taken at approximately equally spaced time intervals during a 24-hour period and which are combined prior to analyses.
- d. Concentration--The weight of any given material present in a unit volume of liquid. Unless otherwise indicated in this permit, concentration values shall be expressed in milligrams per liter (mg/l).
- e. The Regional Administrator is defined as the Region V Administrator, U.S. EPA, located at 230 South Dearborn Street, Chicago, Illinois 60604.
- f. The Indiana Stream Pollution Control Board is located at the following address: 1330 West Michigan Street, Indianapolis, Indiana 46206.

#### 4. Test Procedures

Test procedures for analysis of pollutants shall conform to regulations published pursuant to Section 304(h) of the Act, the most recent edition of "Standard Methods for the Examination of Water and Wastewater," or other methods approved by the Indiana Stream Pollution Control Board, under which such procedures may be required.

#### 5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

#### 6 Additional Manitoring by Possitte

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Indiana Stream Pollution Control Board Monthly Monitoring Report. Such increased frequency shall also be indicated.

#### 7. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years, or longer, if requested by the Regional Administrator or the Indiana Stream Pollution Control Board.

#### C. REOPENING CLAUSE

This permit shall be modified, or, alternatively, revoked and reissued, to comply with any applicable effluent limitation or standard issued or approved under section 301(b)(2)(C), (D) and (E), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent limitation or standard so issued or approved:

- (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
- (2) controls any pollutant not limited in the permit.

#### D. TOXIC ORGANIC POLLUTANT MANAGEMENT PLAN

The Permittee is required to submit a management plan for toxic organic pollutants. This document is to be submitted to the Indiana Stream Pollution Control Board within 90 days of the date of issuance of this permit, and is to include a listing of the toxic organic compounds used, including petroleum based oils and coatings in use, the method of disposal, and procedures for ensuring that these compounds do not routinely spill or leak into the process wastewaters, noncontact cooling water, groundwater, stormwater or other surface waters. Upon review and approval of the plan, the ISPCB may modify this permit to include the plans as a provision of the permit. Additional specific pollutants may be added to the Discharge Limitations upon information provided by the above report and or the TTO monitoring program.

# PART II STANDARD CONDITIONS FOR NPDES PERMITS FOR INDUSTRIAL FACILITIES

#### SECTION A. GENERAL CONDITIONS

## 1. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and the Indiana Environmental Management Act and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

# 2. Penalties for Violations of Permit Conditions

Pursuant to the Indiana Environmental Management Act, any person who violates a permit condition implementing sections 301, 302, 306, 307, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year or both. If the conviction is for a violation committed after a first conviction of such person under this provision, punishment shall be a fine of not more than fifty thousand dollars (\$50,000) per day of violation, or by imprisonment for not more than two (2) years, or both.

Except as provided in permit conditions on "Bypassing," Section B, Paragraph 2 and "Upsets," Section B, Paragraph 3, nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

#### 3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with the permit.

# 4. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause, including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

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changes or anticipated noncompliance does not stay any permit condition.

# 5. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

# 6. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application should be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date.

# 7. Transfers

This permit is nontransferable to any person except after notice to the Director pursuant to Regulation 330 IAC 5-2-5(c). The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

# 8. Toxic Pollutants

Notwithstanding Paragraph A-4, above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Clean Water Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition.

The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants injurious to human health within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

#### 9. Containment Facilities

When cyanide or cyanogen compounds are used in any of the processes at this facility, the permittee shall provide approved facilities for the containment of any losses of these compounds in accordance with the requirements of Stream Pollution Control Board Regulation 330 IAC 1-2.

# 10. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Environmental Management Board as required by IC 13-1-6.

# 11. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

# 12. Property Rights

The issuance of this permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or an invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

## 13. Severability

The provisions of this permit are severable and, if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

# 14. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

#### 15. Construction Permit

The permittee shall not construct, install, or modify any water pollution control facility without a valid construction permit issued by the Indiana Stream Pollution Control Board pursuant to 330 IAC 3.1.

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# 1. Proper Operation and Maintenance

The permittee shall at all times maintain in good working order and efficiently operate all facilities and systems for wastewater collection and treatment which are installed or used by the permittee and which are necessary for achieving compliance with the terms and conditions of this permit.

# 2. Bypass of Treatment Facilities

#### a. Definitions:

- (1) "Bypass" means the intentional diversion of a waste stream from any portion of a treatment facility normally utilized for treatment of the waste stream.
- (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production at the permittee's facility.
- b. (Prohibition of Bypass) Bypass which causes or is likely to cause applicable effluent limitations to be exceeded is prohibited unless the following three conditions are met:
  - (1) Bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
  - (2) There are no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal period of equipment down-time; and
  - (3) The permittee submits notice of an unanticipated bypass to the Director within 24 hours of becoming aware of the bypass (if this information is provided orally, a written submission must be provided within five days). Where the permittee knows or should have known in advance of the need for a bypass, this prior notification shall be submitted for approval to the Director, if possible, at least ten days before the date of the bypass.
- c. An anticipated bypass which meets the three criteria of Paragraph b of this subsection may be allowed under conditions determined to be necessary by the Director to minimize any adverse effects.

# 3. Upset Conditions

- a. Definition: "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. (Effect of an upset) An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Paragraph c of this subsection are met.
- c. (Conditions necessary for a demonstration of upset) A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, that:
  - (1) An upset occurred and the permittee has identified the specific cause(s) of the upset, if possible;
  - (2) The permitted facility was at the time being operated in compliance with proper operation and maintenance procedures; and
  - (3) The permittee complied with any remedial measures required under Paragraph A.3 of this Part.

#### 4. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters and to be in compliance with all Indiana statutes and regulations relative to liquid and/or solid waste disposal.

#### SECTION C. REPORTING REQUIREMENTS

# 1. Planned Changes in Facility or Discharge

Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by advance notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to revise existing pollutant limitations and/or to specify and limit any pollutants not previously limited.

Monitoring results shall be reported at the intervals and in the form specified in Part I.B.2.

#### 3. Compliance Schedules

Reports of compliance or noncompliance with interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

# 4. Twenty-Four Hour Reporting

The permittee shall report information on the following types of noncompliance within 24 hours from the time permittee becomes aware of such noncompliance:

- a. Any unanticipated bypass which exceeds any effluent limitation in the permit;
- b. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported within 24 hours; and
- c. Any noncompliance which may pose a significant danger to human health or the environment.

A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to reduce and eliminate the noncompliance and prevent its recurrence. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

#### 5. Other Noncompliance

The permittee shall report any instance of noncompliance not reported under Paragraph 3 or 4 of this Section at the time the pertinent Discharge Monitoring Report is submitted. The report shall contain the information specified in Paragraph 4 of this Section.

# 6. Other Information

Where the permittee becomes aware that he failed to submit any relevant facts or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit such facts or corrected information.

# 7. Changes in Discharge of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge of any pollutant identified as toxic, pursuant to Section 307(a) of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
  - (1) One hundred micrograms per liter (100 ug/l);
  - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
  - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
  - (4) The level established in Part III of the permit by the Director.
- b. That it has begun or expects to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

# 8. Signatory Requirements

- a. All reports required by the permit and other information requested by the Director shall be signed and certified by a person described below or by a duly authorized representative of that person:
  - For a corporation: by a principal executive officer of at least the level of vice-president (including a person who is not a vice-president but performs similar policy-making functions for the corporation);
  - (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
  - (3) For a Federal, State, or local governmental body or an agency or political subdivision thereof: by either a principal executive officer or ranking elected official.
- b. A person is a duly authorized representative only if:
  - (1) The authorization is made in writing by a person described above.
  - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of

representative may thus be either a named individual or any individual occupying a named position.); and

- (3) The authorization is submitted to the Director.
- c. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

# 9. Availability of Reports

Except for data determined to be confidential under Board Regulation 330 IAC 5-1.5, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Indiana Stream Pollution Control Board and the Regional Administrator. As required by the Clean Water Act, permit applications, permits, and effluent data shall not be considered confidential.

# 10. Penalties for Falsification of Reports

The Indiana Environmental Management Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

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#### (NPDES) PERMIT PROGRAM

# FACT SHEET

A Draft NPDES Permit to Discharge into Waters of the State Proposed to be Issued by the:

> Indiana Stream Pollution Control Board 1330 West Michigan Street Indianapolis, IN 46206

Public Notice No.:

Public Notice Issued on:

Name and Address of Applicant:

Name and Address of Facility where Discharge Occurs:

General Motors Corporation Central Foundry Division P.O. Box 271 Bedford, IN 47421

General Motors Corporation Central Foundry Division North Jackson Street Bedford, IN 47421

Receiving Water: The Bailey Branch of Pleasant Run Creek via an unnamed ditch.

Use Classification: The receiving water is classified for partial-body contact recreation and aquatic life.

#### I. Tentative Decision on the Application

The above-named applicant has applied for an NPDES permit to discharge wastewaters into the above-described receiving water. The NPDES permit program is administered by the Indiana Stream Pollution Control Board ("Board") pursuant to Sec. 402(b) of the Federal Clean Water Act, as amended, the Indiana Environmental Management Act, as amended (IC 13-7), and Board Rule 330 IAC 5. The Technical Secretary of the Board has examined the application and has developed a draft permit which is proposed to be issued subject to concurrence of the U.S. Environmental Protection Agency. Principal provisions of the draft permit, including effluent limitations, and other pertinent information, are outlined below.

#### II. Location of Discharge

A description and/or sketch of the location of the discharge is appended as Attachment I.

#### III. Description of Existing Discharge

A quantitative description of the existing discharge in terms of significant effluent parameters is appended as Attachment II.

# IV. Description of Effluent Limitations and Effluent Limitations Rationale

- A. The effluent limitations in the draft permit as well as monitoring requirements, schedule of compliance, and special conditions are described in Attachment III. Also included is an effluent limitations rationale which provides the basis for each limitation or condition.
- B. The other special conditions in the proposed permit may include, but are not necessarily limited to: monitoring, recording, and reporting discharges; limiting discharges of oil, hazardous substances, collected solids, visible floating solids, foams, and effluent batch discharges; planning for electric power failure and spill prevention and containment; and prohibiting bypass of treatment facilities. Persons wishing further information about the special conditions may contact the Indiana Stream Pollution Control Board.

#### V. Procedures for the Formulation of Final Determination

A. Interested persons are invited to submit written comments upon the proposed discharge. Comments should be submitted in person or by mail no later than 30 days after the date of the public notice was issued for the permit application. Deliver or mail all comments to:

Mrs. Julie Bright
Division of Water Pollution Control
Permits Section
Indiana State Board of Health
1330 West Michigan Street
Indianapolis, IN 46206

The application and public notice numbers should appear next to the above address on the envelope and on each page of any submitted comments. All comments received no later than 30 days after the public notice is issued will be considered in the formulation of final determinations. The Indiana Stream Pollution Control Board will issue final determinations in a timely manner after the expiration of the public comment period.

B. If written comments indicate a significant public interest in the application, the Technical Secretary of the Indiana Stream Pollution Control Board shall hold a public hearing on the application. If held, the public hearing will be designed to collect relevant information pertaining to the application in an orderly and expeditious manner. Public notice of a public hearing will be circulated at least 30 days in advance of such event. The public hearing will be held within the State of Indiana. After the public hearing, the Technical Secretary of the Indiana Stream Pollution Control Board will formulate his final determination. Further information regarding the conduct and nature of the public hearings concerning discharge

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Requests for a public hearing should: state the name and address of the person requesting the hearing and of any person represented at the hearing by the requester; identify the interest in the proposed permit of the requester and of any person represented by him; state the reasons for the request; state the issues proposed to be considered at the hearing; and state the position of the requester on the issues to be considered at the hearing.

# VI. Staff Contact and Availability of Information

Additional information concerning the draft permit or permit issuance procedures may be obtained between the hours of 8:15 a.m. and 4:45 p.m., Monday through Friday from:

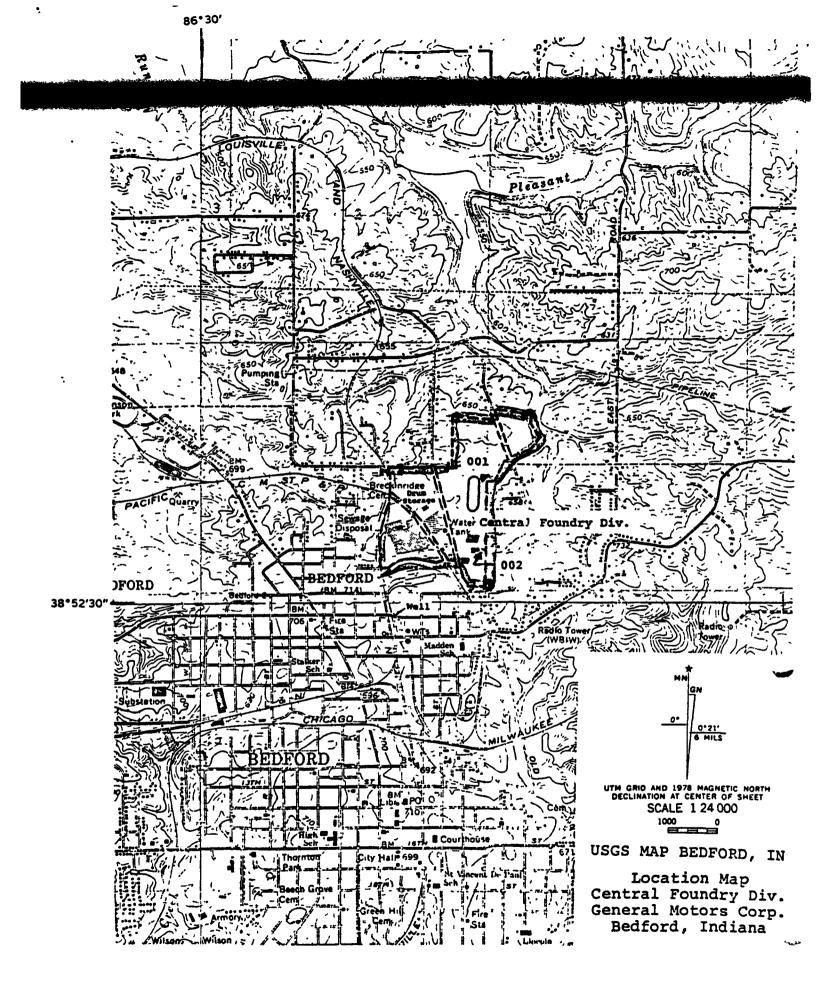
Mr. Robert A. Kelsey at AC 317/633-0838

Copies of the application, proposed permit including proposed effluent limitations, special conditions, comments received, and other documents are available for inspection and may be copied at a cost of 15 cents per page at the Indiana State Board of Health, Room 336, 1330 West Michigan Street, Indianapolis, Indiana.

# Attachment I

# Location of Discharge

See the attached topographic map of GMC-Central Foundry Division for each specific outfall location.



#### Attachment II

# Description of Existing Discharge

# General

The applicant operates an aluminum casting foundry in Bedford, Indiana. Discharges at this facility are authorized by NPDES Permit No. IN 0003575 which expired April 1, 1978, and which is at this time being renewed. A five-year renewal permit and a short-term renewal permit were proposed for issuance in 1981 and 1982, respectively. Due to a PCB problem that resulted in several Consent Orders requiring construction of additional treatment facilities and increased effluent sampling requirements, coupled with a delay, among others, in publication of Effluent Limitations Guidelines for the Foundry Category, have prevented further processing of a renewal permit until now.

# Type of Industry

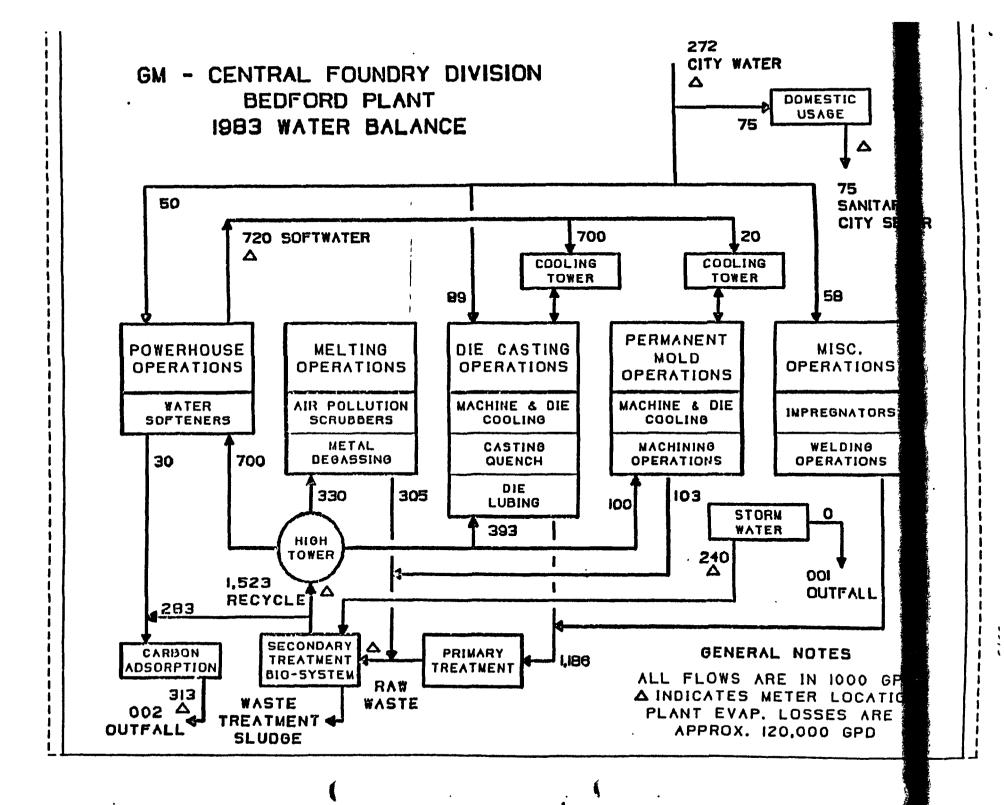
Operations from this facility are listed under SIC Code 3361 for an aluminum foundry for the production of automobile transmission casings, pistons, intake manifolds, and engine blocks utilizing aluminum die castings and permanent molding processes.

#### Intake Water and Wastewater Treatment

The City of Bedford provides the applicant with water which is used as process and sanitary make-up water. Contaminated stormwater runoff is collected and recycled and comprises the largest share of makeup water for process operations. (See the attached 1983 water balance sheet for Central Foundry.)

Treated wastewater originating from aluminum die casting, permanent molding processes, and contaminated stormwater runoff are discharged through outfall 002. The process wastewater specifically arises from air scrubbers and the cooling of dies and castings. Sanitary wastewater discharges to the city sewer for treatment at the publicly operated treatment works (POTW).

Prior to 1972, the hydraulic fluid used in machinery at the Bedford foundry contained PCBs (polychlorinated biphenyls). Since 1972 all new hydraulic fluid purchased by Central Foundry has been PCB-free, but the prior use of PCBs has contaminated the facility so that measurable concentrations of PCBs are still found in its wastewater and storm water runoff. As a result of this discharge of PCBs, several Notices of Hearing before the Indiana



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Stream Pollution Control Board were issued on April 26, 1977 and July 7, 1981. Negotiations resulted in a Stipulation and Consent Orders (Cause Numbers B-416 and B-802) dated October 21, 1980 and March 15, 1983, respectively.

In the original treatment system, noncontact cooling water and stormwater were discharged from a lagoon via Outfall 001. Process wastewaters were partially recycled and then discharged in common with some stormwater and spring water (which until recently flowed across a certain section of the permittee's property) through Outfall 002. To comply with the Consent Order (Cause No. B-416) of October 21, 1980, Central Foundry did the following: (1) expanded their recycle system; (2) rerouted the noncontact cooling water to the recycle system; (3) constructed the 25-year, 24-hour stormwater retention lagoon; and (4) constructed a collection system to route runoff from improved areas, if any, to the new retention lagoon. Central Foundry treats the stormwater from the new lagoon by routing it to-either the recycle system or the carbon adsorption column for discharge. There is only carbon column effluent discharging from Outfall 002 while a discharge from 001, consisting solely of stormwater, will occur only when there is a storm event (or combination of storm events) thereby reducing the reserve capacity of the lagoon to less than that needed to hold the volume of runoff caused by the 15-year, 24-hour storm event.

Any uncontaminated spring water that surfaces
--intermittently onto the permittee's property or flows
onto it from a subsurface conduit shall be conveyed to
their natural point of exit. If the spring water is
contaminated it shall be routed through the permittee's
treatment system.

The Consent Orders contained other items, such as a requirement for a stream study, which has not been included here. The NPDES permit will in no way supersede the Consent Orders, but, instead will exist as a separate document with requirements which coincide with and supplement the pertinent items of the Consent Orders.

At the present time, the existing 3.0 mgd process recycle treatment system consists of primary treatment having oil separation and flow equalization. The secondary and advanced wastewater treatment facilities includes aerobic digestion, coagulation, flocculation, clarification, disinfection, filtration, and carbon adsorption. In addition, sludge thickeners and a plate filter press are used to dewater sludge from secondary treatment while heat treatment and a centrifuge system are used for

operations are disposed of in a sanitary landfill. See the attached Wastewater Treatment System Schematic that follows.

## Receiving Stream

The receiving stream for both Outfalls 001 and 002 is an unnamed ditch tributary to the Bailey Branch of Pleasant Run Creek. The discharges (001 and 002) enter the unnamed ditch at different locations and eventually combine together outside the permittee's property. Pleasant Run Creek is tributary to Salt Creek. Salt Creek is tributary to the East Fork of the White River. The City of Bedford also has an intermittent water intake on Salt Creek downstream of Pleasant Run Creek. The seven-day, ten-year low flow of the Bailey Branch of Pleasant Run Creek is assumed to be 0 cfs.

A description of the existing discharges (for the period of July 1983 to June 1984) obtained from discharge monthly reports (DMR's) for Outfalls 001 and 002 follows:

# Outfall 001

Effluent Parameter	Average mg/1	Maximum mg/1
Flow (MGD) BOD Oil and Grease Total Suspended Solids PCB's pH units	(No flows reported	during this period)

# Outfall 002

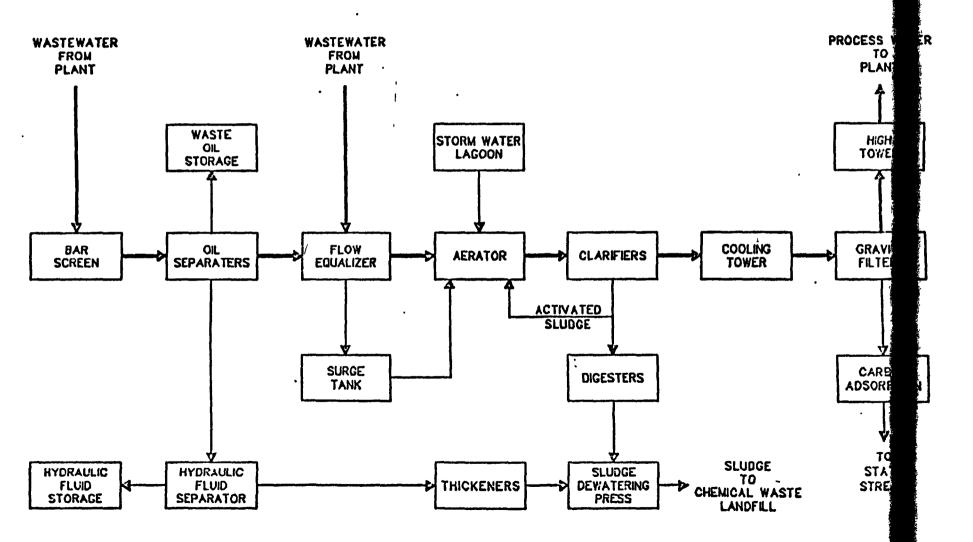
Effluent Parameter	Average mg/1	Maximum mg/1	
Flow (MGD)	(0.353)	(0.5)	
BOD	6.3	114	
BOD Oil <sup>5</sup> and Grease	4.0	10	
Total Suspended Solids	3.2	11.8	
PCB's	(less than $1.0 \text{ ug/1}$ )	(6.5  ug/1)	
pH units	(7.2 s.u.)	(8.2 s.u.)	

A further description of Outfall 002 representing data submitted with the permittee's 2c renewal application follows:

# Outfall 002

Effluent Parameter	D. Maximum mg/1	No. of Analysis		
Ammonia (as N)	8.3	1		
T. Aluminum	0.12	1		
T. Copper	less than 0.01	1		
T. Lead	less than 0.1	1		
T. Phenols	3.50	1		
T. Zinc	less than 0.10	1		
Tetrachloroethylene	6.20	1		
1,1,1-Trichloroethane	0.09	1		

# BIOLOGICAL WASTEWATER TREATMENT SYSTEM



# Attachment III

# Description of Effluent Limitations and Effluent Limitations Rationale

# Outfall 001 (Overflow from Stormwater Retention Lagoon)

Effluent Parameter		Limitations Daily Maximum	Monitoring Requ Frequency	irements Type
Flow (MGD)*			Measure when sa	mpling
Oil and Grease			Weekly when	-
			discharging	Grab
Polychlorinated Biphenyls			Daily when	
•			discharging	24-Hr. Cc
pH units	(limited between	een 6 and 9)	Weekly when	
-			discharging	Grab

\*The permittee shall act to maintain a reserve capacity in the stormwater retention lagoon greater than or equal to that sufficient to contain a 15-year, 24-hour storm event on the lagoon and contributing areas. Discharge from Outfall 001 is permitted only when a severe storm event or combination of storm events results in an overflow of the retention lagoon despite the permittee's efforts to maintain the storage capacity as noted. In the event of an overflow, the permittee shall monitor the discharge as noted above.

# Oil and Grease

If detectable levels of oil and grease are present in this nonprocess related effluent the source of such discharge is to be investigated and eliminated, if feasible, and the findings reported to the Indiana Stream Pollution Control Board (ISPCB).

#### Polychlorinated Biphenyls

These requirements are the direct result of a Consent Order (Cause No. B-416) agreed to between the permittee and the ISPCB for the State of Indiana.

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According to ISPCB regulation 330 IAC 1-1, no pH values below 6 nor above 9 shall be allowed.

	Discharge 1bs/day	Limitations (mg/1)	Monitoring Requ	irements
Effluent Parameter		Daily Maximum	Frequency	Type
Flow (MGD)		esp ess	5 X Weekly	24-Hr. Total
Total Suspended Solids	(10)	(15)	3 X Weekly	24-Hr. Comp.
Oil and Grease		(10)	2 X Weekly	Grab
Total Copper		(0.06)	Weekly	24-Hr. Comp.
Total Lead		(0.05)	Weekly	24-Hr. Comp.
Total Zinc		(0.73)	Weekly	24-Hr. Comp.
Total Phenols (4AAP)		(0.1)	3 X Weekly	24-Hr. Comp.
Total Residual Chlorine	(0.2)	(0.5)	2 X Weekly	Grab
Ammonia (as N)			Weekly	24-Hr. Comp.
TBOD_		(10)	3 X Weekly	24-Hr. Comp.
Polychlorinated Biphenyl	s <del></del>	(0.001)	3 X Weekly	24-Hr. Comp.
Total Toxic Organics			Semi-Annually	24-Hr. Comp.
1,1,1-Trichloroethane		-	2 X Monthly	24-Hr. Comp.
Tetrachloroethylene	400 400	<b>CO CO</b>	2 X Monthly	24-Hr. Co
pH Units (limit	ed to a range	between 6 and 9)	5 X Weekly	Grab

# TSS, Oil and Grease, and Metals (Copper, Lead, and Zinc)

Two separate sets of effluent limitations (primary and secondary) for these parameters were planned to be proposed in the permit. Company representatives provided production data that showed that the production level for the high month for the last twelve months to be 16.3 x  $10^6$  pounds (or 388 T/D, as shown on page 17, for an average 21-day production month) of aluminum cast. However, Company representatives also made a plausible argument that production is expected to reach the  $27.258 \times 10^{\circ}$ pounds per month production level within the duration of the permit. In some cases, such as with the automotive industry, historical data may show large random or cyclic fluctuations in production rates, of either a short or long term nature. In those situations, it may be appropriate to have alternate limits which are applicable at some increased production rate or setting the limit based upon a level of production higher than the average. See page 18 of this document for more specifics.

After calculating separate or alternate limitations based on historical and projected production levels, a significant differential did not exist based upon the February 15, 1985, Notice of Availability for the Metal Molding and Casting Industry Point Source Category Effluent Limitations Guidelines Document (40 CFR Part 464). Therefore, alternate limits are not being proposed at this time. Instead, one set of effluent limitations are proposed. Mass limitations are based on the production level of 24.45 x 10 pounds of aluminum produced per month. This amount also represents that level which would have been the monthly production level upon which alternate (or secondary) limits would have been based.

As described on page 18, alternate or secondary limits were not calculated precisely on the projected level of 27.258 x  $10^6$  pounds of aluminum cast. Staff believe that a reasonable measure of production is represented by the projected level of  $24.45 \times 10^6$  pounds of aluminum cast per month. This level should provide for a certain amount of production increase above the historical value of  $16.3 \times 10^6$  pounds of aluminum cast while still conforming to EPA guidance documents for alternate limitations calculations.

Data sheets representing the initial rationale and calculation of primary and secondary limits are attached for the record starting on Page 18.

Mass limitations for TSS and Oil and Grease based on BPT requirements are not being proposed. Instead, concentration limitations are being proposed that provide the permittee with an allowance for treating plant contaminated stormwater runoff. The bottom of Page 22 indicates calculated Federal Effluent BPT limitations which do not include an allowance for stormwater runoff or nonscope flows which are intended to be dealt with on a case-by-case basis. The concentration based limitations provide the permittee with a continuous allowance since this is usually the case due to the existance of the 25-year, 24-hour storm lagoon. Staff feel the proposed limitations are protective of the receiving stream while not being overly restrictive. TSS and Oil and Grease limitations are the same as in the expiring permit.

Concentration based limitations are proposed to meet water quality requirements for T. Copper and T. Zinc based upon EPA Acute Toxicity Criteria and a water hardness level of 270 mg/l as CaCO<sub>3</sub>. The following EPA formulas were used to calculate those limitations.

Maximum Acute Copper Toxicity concentration with a specified hardness level (as CaCO<sub>3</sub>) is represented by the formula:

$$e^{(0.94 \text{ ln (Hardness)} - 1.23)} = ug/1$$

Maximum Acute Zinc Toxicity concentration with a specified hardness level (as CaCO<sub>3</sub>) is represented by the formula:

$$e^{(0.83 \ln (\text{Hardness}) + 1.95)} = ug/1$$

Limitations for T. Lead and T. Phenols are based upon U.S.P.H.S. Drinking Water Standards and Water Quality considerations, respectively. Total Phenols were not specifically listed in the previously cited Notice of Availability but due to past water quality violations at the plant and the potential for stream degradation, effluent limitations for T. Phenols are proposed. Staff believe the final regulations will include T. Phenols limitations.

the calculated BAT mass limitations using both the average daily flow (0.353 mgd) and the maximum flow (0.5 mgd) reported to determine the corresponding concentrations. These concentrations were then compared with the previously mentioned EPA Acute Toxicity information, U.S.P.H.S. Drinking Water Standards, and Water Quality Standards to determine the more protective stream requirements.

# TBOD\_

The expiring permit limited  $BOD_5$  to a daily maximum limitation of 10 mg/l. Based upon water quality considerations and the fact that there is presently an enforcement action for past  $BOD_5$  violations the expiring permit limitations are being retained for the duration of the renewal permit.

#### Ammonia

Monitoring for a three-month period is proposed to determine whether or not significant levels are present. The permit may be modified to include appropriate effluent limitations. Monitoring is being required due to elevated levels, as reported in their 2C application, and because of ammonia's oxygen demand and toxicity to aquatic organisms.

# Polychlorinated Biphenyls

This limitation has been placed on Outfall 002 as a result of a Consent Order (Cause No. B-416) agreed to by the permittee and the ISPCB for the State of Indiana due to the carcinogenic properties of PCB's. Contaminated areas resulted from past uses of hydraulic fluid containing PCB's.

# Total Residual Chlorine (TRC)

Limitations on TRC have been required to prevent excessive quantities of this disinfectant/biocide from being discharged into the receiving stream to protect the aquatic life. These limitations are the same requirements as those issued under the Steam Electric Power Generating Point Source Category (40 CFR Part 125 and 423) promulgated November 19, 1982.

# Total Toxic Organics (TTO) Monitoring

As a result of a June 14, 1985, bioassay, conducted on the plant effluent which showed that significant toxicity exists and to further characterize the discharge in order that those pollutants that need to be controlled, are controlled, semi-annual monitoring for a period of one-year is required. This one-year period should allow the permittee the time to correct the deficiencies that now exist in the treatment system while providing the necessary supporting data for whether or not continued monitoring is required, or for imposing effluent limitations for specific parameters.

In addition to the organics monitoring mentioned above, l,l,l-trichloroethane and Tetrachloroethylene were found in the effluent as reported in the permittee's 2C renewal application. Monitoring for a period of three months is required to determine whether or not these concentrations found are representative of the discharge or are an anomaly that occurred during a time of wastewater treatment plant deficiencies.

# REPRESENTING THE HIGH MONTH FOR 1984

Operation	Production		
Die Casting*	388 Tons/Day		
Mold Cooling	388 Tons/Day		
Casting Quench	307 Tons/Day		
Casting Cleaning	252 Tons/Day		
Melting Furnace Scrubber	156.000 SCFM		

<sup>\*</sup>Federal Effluent Guidelines Limitations (40 CFR Part 464) combine die casting, permanent molding, and semi-permanent molding processes together under one category - Die Casting.

# Initial Alternate Limitations Rationale

22 march

Twenty percent separates the various levels from the Primary Limitations level. EPA generally agrees that a 10-20 percent fluctuation in production is within the range of normal variability, while changes in production "substantially higher" than this range could warrant consideration of alternate limitations.

10,866,500-lbs/mo. Secondary/Alternate Limitations applicable for production falling below the 13,040,000 pounds levels for a projected month. Permit would need to be modified in this case.

13,040,000-lbs/mo. Lower threshold level which would trigger alternate limitations.

16,300,000-lbs/mo. Primary Limitations based on high month for the last twelve months.

19,560,000-lbs/mo. Upper threshold level which would trigger alternate limitations.

\*24,450,000-1bs/mo. Secondary/Alternate Limitations applicable for production exceeding the 19,560,000 pounds level for a projected month.

EPA considers a 20% fluctuation to be within the normal range of variability. A 20% increase above the primary production level of 16.3 x 10° pounds aluminum would then be within this normal range which would serve as an upper threshold level. This would correspond to the level of 19.56 x 10° pounds of aluminum. Any production above this value could then be considered for alternate limits. Staff believe that a 25% increase above this threshold level would then be the basis for any secondary limits. This would correspond to the level of 24.45 x 10° pounds of aluminum. Therefore, a 20% swing above or below this secondary level of production would be included. A 20% increase above the 24.45 x 10° pounds level would then include the permittee's projected production level of 27.258 x 10° pounds of aluminum per month.

\*Selected to be the basis for actual permit limitations since no significant differential existed after primary and secondary limitations were calculated.

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# Primary Effluent Limitations Calculation (40 CFR Part 464)

#### Die Casting

#### Casting Cleaning

Production = 388 T/D; Blowdown = 5.3 GPT

Production = 252 T/D; Blowdown = 24.0 G

				Effluent Limit	tations (lbs/day)		Effluent Limitat	(lbs/day)
	D. Max.	* Mo. Ave.	Result. Multiplier	D. Max.	Mo. Ave.	Result. Multiplier	D. Max.	o. Ave.
T. Copper	1.49	0.29	1.715 x 10 -2	0.026	0.005	5.0 x 10 <sup>-2</sup>	0.075	<b>D.</b> 015
T. Lead	0.24	0.2	1.715 x 10 <sup>-2</sup>	0.004	0.003	$5.0 \times 10^{-2}$	0.012	0.01
T. Zinc	2.67	0.53	$1.715 \times 10^{-2}$	0.046	0.009	5.0 x 10 2	0.135	0.027
Oil and Grease	6.5	2.6	1.715 x 10 <sup>-2</sup>	0.111	0.045	5.0 x 10 <sup>-2</sup>	0.328	0.131
T. Phenols								
T. Suspended			_1			-3	į.	
Solids	23.5	6.8	1.715 x 10 <sup>-2</sup>	0.403	0.117	5.0 x 10 <sup>-2</sup>	1.185	0.343
T. Toxic								
Organics						<b>~ =</b>		

#### Mold Cooling

#### Casting Quench

Production = 388 T/D; Blowdown = 25 GPT

Production = 307 T/D; Blowdown = 2.9 GPT

			Effluent Limitations (lbs/day)				Effluent Limitat	(lbs/day)
	D. Max.	* Mo. Ave.	Result. Multiplier	D. Max.	Mo. Ave.	Result. Multiplier	D. Max.	o. Ave.
T. Copper	1.49	0.29	8.09 x 10 <sup>-2</sup>	0.121	0.023	7.425 x 10 <sup>-3</sup>	0.011	0.002
T. Lead	0.24	0.2	$8.09 \times 10^{-2}$	0.019	0.016	$7.425 \times 10^{-3}$	0.002	0.001
T. Zinc	2.67	0.53	8.09 x 10 <sup>-2</sup>	0.216	0.043	7.425 x 10_3	0.02	0.004
Oil and Grease	6.5	2.6	8.09 x 10 <sup>-2</sup>	0.526	0.210	7.425 x 10 <sup>-3</sup>	0.048	0.019
T. Phenols			••					
T. Suspended			2			3		
Solids	23.5	6.8	8.09 x 10 <sup>-2</sup>	1.901	0.55	$7.425 \times 10^{-3}$	0.174	0.05
T. Toxic								
Organics								

T/D = Tons per day

GPT = Gallons per ton

<sup>\* -</sup> Treatment effectiveness concentrations (mg/l) using "EPA and Confirmed DMR Data" for NonFerrous Foundries (see February 15, 1985, Not Availability - Metal Molding and Castings Effluent Limitations Guidelines).

#### Primary Effluent Limitations Calculation (Cont'd.)

#### Melting Furnace Scrubber

Feed Rate = 156,000 SCFM; Blowdown = 0.47 gal. per 1000 SCF

				Effluent Limitations (lbs/day)		
	D. Max. *	Mo. Ave.	Result Multiplier	D. Max.	Mo. Ave.	
T. Copper	1.49	0.29	8.81 x 10 <sup>-1</sup>	1.312	0.255	
T. Lead	0.24	0.2	8.81 x 10 <sup>-1</sup>	0.211	0.176	
T. Zinc	2.67	0.53	$8.81 \times 10^{-1}$	2.351	0.467	
Oil and Grease	6.5	2.6	8.81 x 10 <sup>1</sup>	5.725	2.29	
T. Phenols	••		••			
T. Suspended			_			
Solids	23.5	6.8	8.81 x 10 <sup>-1</sup>	20.692	5.988	
T. Toxic						
Organics						

#### Primary Limitations Totals

	Effluent Limit	ations (lbs/day)
	D. Max.	Mo. Ave.
T. Copper	1.545	0.3
T. Lead	0.248	0.206
T. Zinc	2,768	0.55
Oil and Grease	6.736	2.694
T. Phenols		••
T. Suspended Solids	24.355	7.048
T. Toxic		
Organics	••	

T/D = Tons per day

GPT = Gallons per ton

<sup>\* =</sup> Treatment effectiveness concentrations (mg/1) using "EPA and Confirmed DMR Data" for NonFerrous Foundries (see February 15, 1985, Notice of Availability - Metal Molding and Castings Effluent Limitations Guidelines).

#### Secondary Effluent Limitations Calculation

#### Die Casting

#### Casting Cleaning

Production = 582 T/D; Blowdown = 5.3 GPT

Production = 378.4 T/D; Blowdown = 24 GR

				Effluent Limitations (lbs/day)			Effluent Limitati	(lbs/day)
	D. Max.	* Mo. Ave.	Result, Multiplier	D. Max.	Mo. Ave.	Result. Multiplier	D. Max.	. Ave.
T. Copper	1.49	0.29	2.573 x 10 <sup>-2</sup>	0.038	0.007	$7.572 \times 10^{-2}$	0.113	.022
T. Lead	0.24	0.2	$2.573 \times 10^{-2}$	0.006	0.005	7.572 x 10 <sup>-2</sup>	0.018	.015
T. Zinc	2.67	0.53	$2.573 \times 10^{-2}$	0.069	0.014	7.572 x 10 <sup>-2</sup>	0.202	.040
Oil and Grease	6.5	2.6	2.573 x 10 <sup>-2</sup>	0.167	0.067	7.572 x 10 <sup>-2</sup>	0.492	.197
T. Phenols					₩ #			
T. Suspended			-2			-2		
Solids .	23.5	6.8	$2.573 \times 10^{-2}$	0.605	0.175	$7.572 \times 10^{-2}$	1.780	515
T. Toxic								
Organics								-

#### Mold Cooling

#### Casting Quench

Production = 582 T/D; Blowdown = 25 GPT

Production = 460 T/D; Blowdown = 2.9 GPT

				Effluent Limi	tations (lbs/day)		Effluent Limitat	(lbs/day)
	D. Max.	Mo. Ave.	Result. Multiplier	D. Max.	Mo. Ave.	Result. Multiplier	D. Max.	. Ave.
T. Copper	1.49	0,29	12.135 x 10 <sup>-2</sup>	0.181	0.035	1.112 x 10 <sup>-2</sup>	0.017	.003
T. Lead	0.24	0.2	12.135 x 10 2	0.029	0.024	$1.112 \times 10^{-2}$	0.003	.003
T. Zinc	2.67	0.53	12.135 x 10 2	0.324	0.064	$1.112 \times 10^{-2}$	0.030	.006
Oil and Grease	6.5	2.6	$12.135 \times 10^{-2}$	0.798	0.316	1.112 x 10 <sup>-2</sup>	0.072	.029
T. Phenols					•-	**		
T. Suspended Solids	23.5	6.8	12.135 x 10 <sup>-2</sup>	2.852	0.825	1.112 × 10 <sup>-2</sup>	0.261	.076
T. Toxic Organics							••	

T/D = Tons per day

GPT = Gallons per ton

<sup>\* =</sup> Treatment effectiveness concentrations (mg/l) using "EPA and Confirmed DMR Data" for NonFerrous Foundries (see February 15, 1985, Notified Availability - Metal Molding and Castings Effluent Limitations Guidelines).

#### Secondary Effluent Limitations Calculation (Cont'd.)

#### Melting Furnace Scrubber

Feed Rate = 156,000 SCFM; Blowdown = 0.47 gal. per 1000 SCF

			Effluent Limi	Effluent Limitations (lbs/day)	
	D. Max. * Mo.	Ave. Result Mul	tiplier D. Max.	Mo. Ave.	
T. Copper	1.49 0	.29 8.81 x 1	1.312	0.255	
T. Lead	0.24 0	.2 8.81 x 1	0.211	0.176	
T. Zinc	2.67 0	.53 8.81 x 1	LO <sup>-1</sup> 2.351	0.467	
Oil and Grease	6.5 2	.6 8.81 x 1	- ;	2.289	
T. Phenols					
T. Suspended			•		
Solids	23.5 6	.8 8.81 x 1	LO <sup>-1</sup> 20.692	5.988	
T. Toxic					
Organics					

# Secondary Limitations Totals

	Effluent Limit	ations (lbs/day)
	D. Max.	Mo. Ave.
T. Copper	1.661	0.322
T. Lead	0.267	0.222
T. Zinc	2.976	0.591
Oil and Grease	7.243	2.898
T. Phenols	•• ,	
T. Suspended		
Solids	26.19	7.597
T. Toxic		
Organics		

T/D = Tons per day

GPT = Gallons per ton

<sup>\* =</sup> Treatment effectiveness concentrations (mg/l) using "EPA and Confirmed DMR Data" for NonFerrous Foundries (see February 15, 1985, Notice of Availability - Metal Molding and Castings Effluent Limitations Guidelines).

# METAL MOLDING AND CASTING FLOW RATES AND RECYCLE RATES

	Process	Flows -		
Subcategory	Segment	Applied	Blowdown	Recycle
			***	
Aluminum	Casting Cleaning	480	24	95
	Casting Quench	145	2.9	98
	Die Casting	106	5.3	95
	Dust Collection			
	Scrubber	1.78*	0.036*	98
	Grinding Scrubber	0.063*	0	100
	Investment Casting	20,800	3,120	85
	Melting Furnace	-	•	
	Scrubber	11.7*	0.47*	96
	Molding Cooling	506	25	95
C	Continu Over 1	470	0.4	•
Copper	Casting Quench	478	9.6	98
	Direct Chill Casting	3,130	157	95
•	Dust Collection		0.004	22
	Scrubber	4.29*	0.086*	98
	Grinding Scrubber	0.111*	0	100
	Investment Casting	764	115	85
	Melting Furnace	7 0/4	0.004	•
	Scrubber	7.04*	0.28*	96
	Mold Cooling	5,530	277	95
Ferrous	Casting Cleaning	213	10.7	95
	Casting Quench	571	11.4	98
	Dust Collection			
	Scrubber	3.0*	0.09*	97
	Grinding Scrubber	3.17*	0	100
	Investment Casting	300	45(3)	85(3)
	Melting Furnace		,	
	Scrubber	13.7*	0.55*	96
	Mold Cooling	707	35.4	95
	Slag Quench	727	43.6	94
	Wet Sand Reclamation	895(2)	179(2)	80
Magnesium	Casting Quench	535	10.7	98
	Dust Collection			
	Scrubber	0.275*	0.0055*	98
	Grinding Scrubber	0.275*		100
74	Constant Original	E22	10.7	00
Zinc	Casting Quench	533	10.7	98 05
	Die Casting	109	5.5	95
	Melting Furnace	0.0055		0.5
	Scrubber	0.385*		
	Mold Cooling	4,000	200	95

\*-gallons per 1000 SCF (Obtained from February 15, 1985, Notice of Availability)

FS/General Motors PER3

# Post Public Notice Addendum - September 1985

As a result of comments received from the permittee during the 30-day public notice period, the following responses and/or changes are being made in the NPDES permit.

The appropriate section of the ISPCB has been informed of the request for the reclassification of a portion of Pleasant Run Creek and the Bailey Branch to <u>limited</u> use. If and when reclassification to limited use is approved by the appropriate agencies of the ISPCB and EPA, the permittee may at that time request a permit modification to consider the needed changes, if any, in effluent limitations and/or monitoring requirements of the permit. As you may or may not be aware of, limited use streams must still meet certain minimum water quality standard water quality standards (Refer to ISPCB Regulation 330 IAC 1-1-6) so that the point of application of these requirements would remain at the present outfall location(s) and not at some location downstream (point F in Appendix I of supporting data). Additional time for submittal of supplemental data supporting the permittee's request for the limited use classification is not being granted. Any supporting data should have been submitted within the 30-day comment period. However, all pertinent data will be evaluated by the appropriate agencies in determining whether or not the receiving stream meets the requirements for the limited use designation.

As a result of comments received concerning the designation of the new stormwater retention lagoon outfall as 001, it has been decided for accuracy and future reference that all references to outfall 001 be changed to refer instead to outfall 003 in the permit. Outfall 001 shall remain in the record as the discharge point from the original stormwater retention lagoon which is no longer utilized.

Monitoring frequency requirements for flow, TSS, Oil and Grease, pH and PCB's are not out of line with requirements for discharges (Industrial and Municipal) having similar characteristics and/or volume. No changes are proposed at this time for any of the monitoring frequencies in the permit. However, if after a period of time the permittee has shown that the requirements in the permit have been consistently met, a request for modification to alter specific conditions (i.e., relaxed monitoring frequency) may be submitted to the ISPCB.

Staff disagrees with your request to require only 3-month monitoring for the metals Zinc and Lead at outfall 002. Since the Proposed Metal Molding and Casting Point Source Effluent Limitations Guidelines include limitations for these two parameters, staff is required to place limitations in the permit based either on reported production quantities or water quality considerations, whichever is more stringent. As mentioned in the previous paragraph, permitted parameters and/or conditions may be modified (i.e., relaxed or deleted) if permit requirements and/or conditions have consistently been met. However, by the case of

allowing a relaxation of monitoring frequency but not total deletion of those regulated parameters and/or conditions. The parameter copper, contrary to your belief, is listed in the guidelines for the Aluminum Casting Subcategory and shall remain in the permit as proposed.

It must be emphasized again that all changes regarding requirements and/or conditions based upon the possible reclassification of the receiving stream will have to wait until the appropriate time (i.e., when reclassification is finalized) for consideration.

Several comments questioned the use of drinking water standards in establishing limitations. Especially since "the nearest potable water supply intake is north of Bedford, In., on Salt Creek." However, this staff is also charged with the responsibility to protect wildlife and livestock from toxic effects — the limitation of 0.05 mg/L for lead is probably the best we know for that purpose. Also, using EPA toxicity formulas based upon water hardness, an acute aquatic toxicity value of 0.058 mg/l is obtained after applying a safety factor of 1/10 as specified in ISPCB Regulation 330 IAC 1-1-6(b) for toxic substances. This figure is almost identical to the figure listed by the U.S.P.H.S...

No relaxation of the T. phenols limitations is proposed based on the possible reclassification to limited use. Even with the limited use designation no relaxation for toxic pollutants is permissible.

Comments concerning the TBOD<sub>5</sub> request for 3-months monitoring and changes in the wording of Toxic Organic Pollutant Monitoring is not possible without having had public noticed the permit with this language in it. As mentioned previously, permit modification is always an option after a period of time in which consistent compliance has been observed for those requirements and/or conditions requested to be changed.

As a result of comments received from EPA, effluent limitations for total residual chlorine (TRC) have been deleted and 6-month monitoring is required. As a result of these comments, staff felt it was appropriate to reduce the sampling frequency to twice (2) monthly. (See EPA comment section concerning TRC.)

The request for an increase in time from 90 days to 180 days for submittal of the Toxic Organic Management Plan is not being granted. Submittal of the Plan after 90 days from the issuance date of the permit does not necessarily need to follow TTO monitoring in order to meet the requirements of the Toxic Organic Pollutant Management Plan.

Since it was unavoidable that the permittee did not have an opportunity to review the draft permit and fact sheet for accuracy prior to the 30-day public notice period, several items requiring clarification and/or correction should be noted as follows:

1. Under the heading of <u>Description of Existing Discharge</u>, page 6 of the Fact Sheet (F.S.), the description of the industrial classification should be revised to reflect more accurately the plant operations. This paragraph should read:

"Operations from this facility are listed under SIC Code 3361 for an aluminum foundry for the production of various types of transportation castings, including transmission castings, pistons, intake manifolds, and engine blocks, utilizing aluminum die castings, permanent and semipermanent molding processes."

2. The leading two paragraphs under the heading Intake Water and Wastewater Treatment description, page 6 of the F.S., also requires clarification to describe accurately the plant's operations. Most significantly, an implication is made that all stormwater collected from the site is contaminated and that it originates from the entire site. The paragraphs should read:

"The City of Bedford provides the applicant with water which is used as process make-up and sanitary water. Stormwater runoff is collected from the improved plant properties and recycled as required for process make-up water. This stormwater comprises a significant share of make-up water for process operations. (See the attached 1983 water balance diagram for Central Foundry.)"

"Treated wastewater originating from aluminum die casting, permanent and semipermanent molding processes, and stormwater runoff are discharged through outfall 002. The process wastewater specifically arises from die casting, die lubing, cooling of dies and castings, air scrubbers, casting cleaning, and miscellaneous sources such as the cooling tower and boiler blow down. Sanitary wastewater discharges to the city sewer for treatment at the publicly owned treatment works (POTW)."

The last paragraph in this section, page 8 of the F.S., is also inaccurate. It should be completely replaced with:

"The existing wastewater treatment system has a design capacity of 3.0 mgd and a significant portion of its treated effluent is recycled to manufacturing as process water. Preliminary treatment consists of free oil separation and solids settling in one pair of units followed by flow equalization. The next stage of treatment consists of activated sludge treatment followed by sedimentation and rapid sand filtration. Excess sludges from the activated sludge units are aerobically digested in a pair of separate units. Solids and oil separated in preliminary treatment are processed to recover hydraulic fluid. The non-recoverable residue is either processed in the activated sludge-aerobic digestion units or directly dewatered in the filter press along with the aerobically digested sludge. The dewatered

approved landfill. Final treatment of the rapid sand filter effluent is accomplished by activated carbon sorption prior to discharge."

3. Under the Receiving Stream section of the F.S., page 9, it states that outfalls 001 and 002 (proposed 003 and 002) combine in an unnamed ditch prior to their confluence with Bailey Branch of Pleasant Run Creek. This is not the case. Outfall 002 joins Bailey Branch upstream of the point which outfall 001 (proposed 003) joins. The revised topographical map, page 5 of the F.S., is attached for the record.

Attached is also a revised diagram concerning the Biological Wastewater Treatment System which was submitted incompletely with the renewal application.

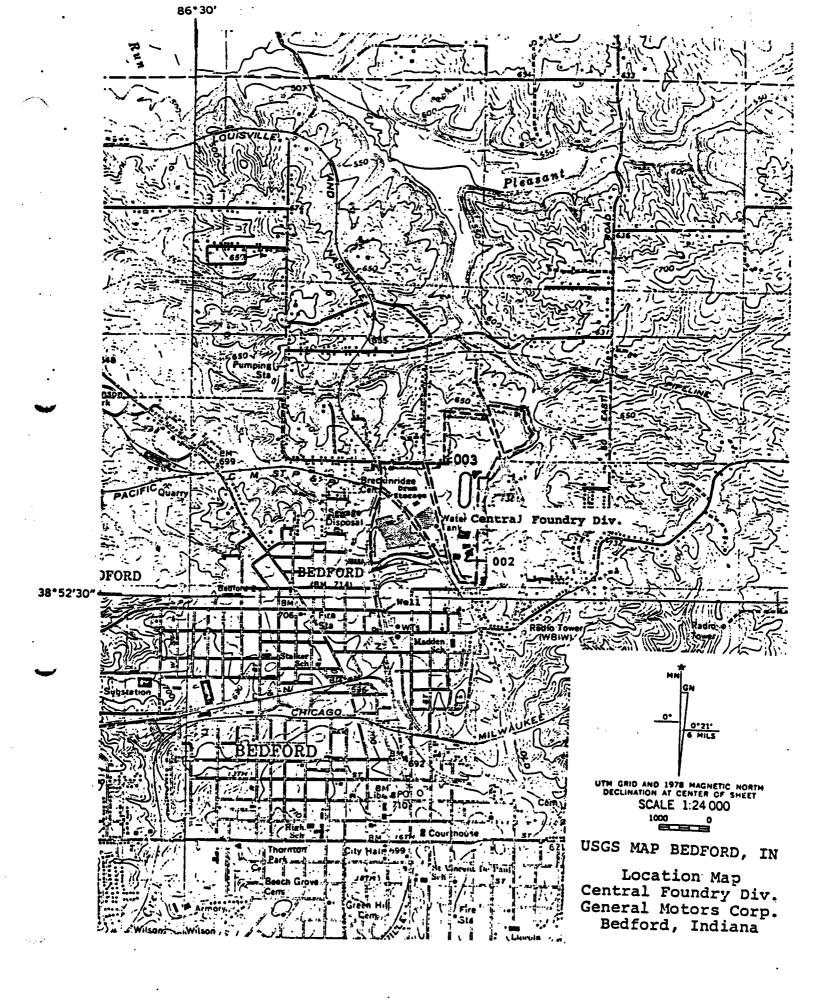
The diagram required the following flow connections to be complete:

- (1) sludge from the hydraulic fluid separator may be pumped to the digesters, and
- (2) stormwater may be pumped directly from the retention lagoon directly to carbon adsorption.

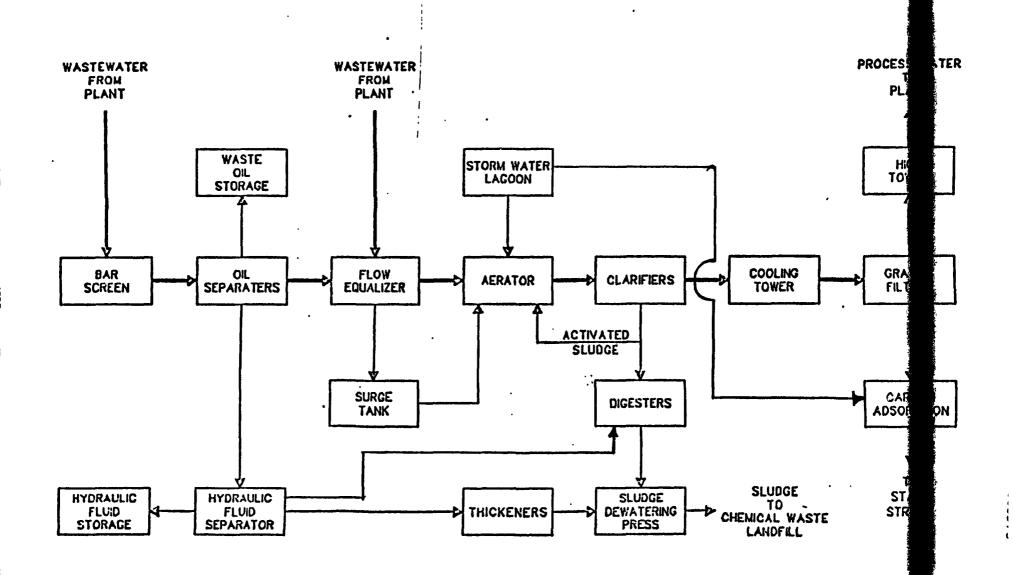
As a result of comments received from EPA, Region V, on the draft permit, the two following requirements are being inserted into the permit for outfall 002.

- The total residual chlorine (TRC) limitations are being deleted. Instead, monitoring for a period of six (6) months (which also includes a reduction in monitoring frequency to a twice monthly sample) is required since detectable levels of TRC should not be present in the effluent. If TRC is present in detectable amounts during this period then effluent limitations will be placed on the discharge at this time, if appropriate.
- 2. A daily average limitation is being required based on the chronic toxicity effects of zinc. Using the calculated mass limitations from the effluent guidelines, back calculation utilizing the permittee's average flow provides a concentration value of 0.2 mg/l for daily average. This value is also fairly representative of chronic toxicity values for those species typically found in the receiving stream and shall be inserted into the permit as the daily average limitation.

FS/General Motors PER3 (jb 9/19/85)



### BIOLOGICAL WASTEWATER TREATMENT SYSTE



#### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT PROGRAM

#### PUBLIC NOTICE

Issuance of a NPDES Permit to Discharge into Waters of the State

Indiana Stream Pollution Control Board 1330 West Michigan Street Indianapolis, IN 46206 317/633-0795

Public Notice Number: 5I-5056 RI

Public Notice Issued On: Oct. 2, 1985

Permit No.: IN 0003573

Name and Address of Permittee:

General Motors Corporation Central Foundry Division Bedford Plant P.O. Box 271 Bedford, IN 47421 Name and Address of Facility
Where Discharge Occurs:

General Motors Corporation Central Foundry Division Bedford Plant North Jackson Street Bedford, IN 47421

#### I. Permit Information

You are hereby notified that the Technical Secretary of the Indiana Stream Pollution Control Board issued a NPDES permit on September 23 1985 to the above-named applicant to discharge wastewaters into the Bailey Branch of Pleasant Run Creek in Lawrence County, Indiana. The permittee operates a facility that utilizes aluminum die casting and molding processes. Plant operations result in an average discharge of 0.353 million gallons per day of treated process and storm runoff water. The permit authorizes the discharge for the following pollutants/parameters: ammonia (as N), pH, oil and grease, TBOD<sub>5</sub>, total toxic organics, TSS, T. Copper, T. Lead, T. Zinc, T. Phenols, T. Residual Chlorine and PCB's, pursuant to applicable State and Federal law. The above-named State waters, into which the discharge is made, are classified for partial-body contact recreation and aquatic life in accordance with State water quality standards.

#### II. Appeal Procedures

Within fifteen (15) days after the date of publication of this notice, any person aggrieved by the issuance of the above-referenced permit may appeal in writing to the Indiana Stream Pollution Control Board for an adjudicatory hearing on the question of whether the permit has been issued in accordance with applicable law.

- (1) state the name and address of the person making the request;
- (2) identify the interest of the person making the request;
- (3) identify any persons represented by the person making the request;
- (4) state with particularity the reasons for the request;
- (5) state with particularity the issues proposed for consideration at the hearing; and
- (6) identify the permit terms and conditions which, in the judgment of the person making the request, would be appropriate to satisfy the requirements of the law governing permits of the type granted or denied by the Technical Secretary's action.

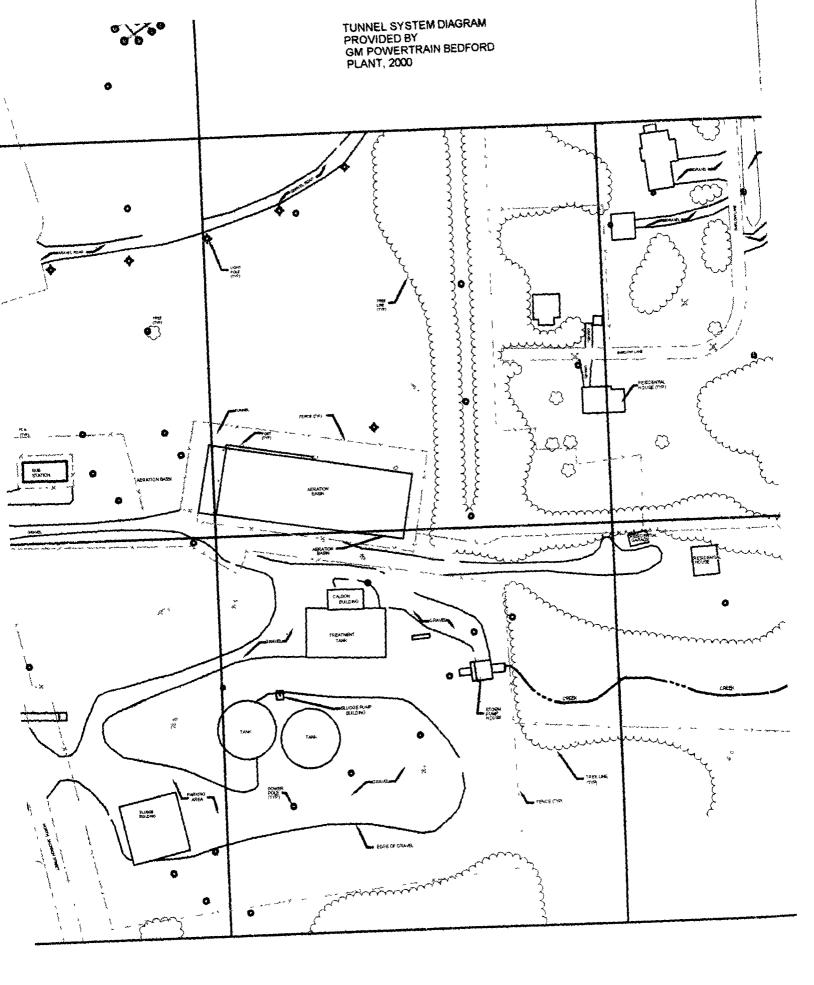
Any such request shall be mailed or delivered to:

Mr. Earl A. Bohner, Technical Secretary Indiana Stream Pollution Control Board 1330 West Michigan Street Indianapolis, IN 46206

#### III. General Information

Copies of the issued NPDES permit, the permit application, and other related documents are on file and may be inspected in Room 334, Indiana State Board of Health, 1330 West Michigan Street, Indianapolis, Indiana, at any time between 9:00 a.m., and 4:00 p.m., Monday through Friday. Copies of this Public Notice and the proposed permit are available at the Indiana State Board of Health. These documents may be copied at a cost of 15¢ per page. Please bring the foregoing to the attention of persons whom you know would be interested in this matter.

## APPENDIX B.6 NORTH MAKE AND SOUTH MAKE SERVICE TUNNELS



## APPENDIX B.7 ISBH LETTER DATED JANUARY 16, 1973

CC: HERZ, TAMBARO, YRARSON, ESTARRY, JCHNRIDER, &

STREAM POLLUTION CONTROL BOARD

INDIANAPOLIS 46206

1330 West Michigan Street 633-4420

January 16, 1973

Mr. R. v. Stumph, General Superintendent General Motors Corporation Central Foundries Division Bedford, Indiana 47421

Dear Mr. Stumph:

TATE

Re: Wastewater Treatment Central Foundries Division

You are hereby notified that the Stream Pollution Control Board of the State of Indiana has, this 16th day of January, 1973, approved plans for a waste treatment facility to be located at Central Foundries Division, Bedford.

The company proposes a complete separation of storm and process water flows from the manufacturing plant area. The storm sewer will flow directly to the fourth pond of the existing five pond system south of the plant while the process water will flow to a new treatment facility prior to discharge to the third pond of that system. Ponds one and two will be drained and filled.

The new wastewater treatment system will include a 280-gallon diversion chamber controlling the flow to either or both of two identical clarifiers of 40-foot diameter by 11-foot SWD, Eimco Corporation Type C2T (or equal) clarithickeners. Each clarithickener can take the total 450-gpm maximum flow and provide four hours of detention with a surface settling rate of 520 gallons per day per square foot or can be operated in parallel to provide twice the detention time. Each clarithickener has a sludge storage and thickening capacity of 2,100 gallons which will contain an anticipated three days of storage at a 700-gallon per day accumulation rate. The thickened sludge will be essentially hydraulic oil in combination with colloidal graphite. Blowdown from the sludge compartment of the clarithickeners will have density monitoring as it is transferred to a 19,700-gallon hydraulic oil storage tank that will provide an anticipated 28 days of storage capacity at a maximum blowdown rate of 700 gallons per day. Hydraulic oil will be heated and centrifuged to remove gross solids with oil fractions returned to the hydraulic storage tank.

The plans were approved with the following conditions:

That additional wastewater treatment facilities will be provided if the proposed facilities fail to provide adequate treatment.

That the Board will be notified of the completion of these facilities prior to the start of their operation.

3. That a certified wastewater treatment operator will be in responsible charge of the operation.

WP (5)

That the company shall submit monthly reports of the effluent from these facilities covering daily determinations of flow and pH and once per week determinations of oil and suspended solids.

5. That sludges shall be disposed of in a manner that is approved by the Board.

The plans were prepared by Environmental Consultants, Inc., Clarksville, and submitted for consideration on December 7, 1972.

Very truly yours,

Cral K. Hert

Oral H. Hert Technical Secretary

I. W. Approval No. 825 CLGough/lbw

cc: Lawrence County Health Department Environmental Consultants, Inc.

# APPENDIX B.8 ISBH LETTER DATED JANUARY 17, 1973



### INDIANAPOLIS

STATE BOARD OF HEALTH

Address Reply to: Indiana State Board of Health 1330 West Michigan Street Indianapolis, IN 46206

January 17, 1973

Mr. R. V. Stumph, General Superintendent General Motors Corporation Central Foundries Division Bedford, Indiana 47421

Dear Mr. Stumph:

Re: Wastewater Treatment Central Foundries Division

You are hereby notified that the State Health Commissioner of the State of Indiana has, this 17th day of January, 1973, approved plans for a waste treatment facility to be located at Central Foundries Division, Bedford.

The company proposes a complete separation of storm and process water flows from the manufacturing plant area. The storm sewer will flow directly to the fourth pond of the existing five pond system south of the plant while the process water will flow to a new treatment facility prior to discharge to the third pond of that system. Ponds one and two will be drained and filled.

The new wastewater treatment system will include a 280-gallon diversion chamber controlling the flow to either or both of two identical clarifiers of 40-foot diameter by 11-foot SWD, Eimco Corporation Type C2T (or equal) clarithickeners. Each clarithickener can take the total 450-gpm maximum flow and provide four hours of detention with a surface settling rate of 520 gallons per day per square foot or can be operated in parallel to provide twice the detention time. Each clarithickener has a sludge storage and thickening capacity of 2,100 gallons which will contain an anticipated three days of storage at a 700-gallon per day accumulation rate. The thickened sludge will be essentially hydraulic oil in combination with colloidal graphite. Blowdown from the sludge compartment of the clarithickeners will have density monitoring as it is transferred to a 19,700-gallon hydraulic oil storage tank that will provide an anticipated 28 days of storage capacity at a maximum blowdown rate of 700 gallons per day. Hydraulic oil will be heated and centrifuged to remove gross solids with oil fractions returned to the hydraulic storage tank.

The plans were approved with the following conditions:

- 1. That additional wastewater treatment facilities will be provided if the proposed facilities fail to provide adequate treatment.
- 2. That the Board will be notified of the completion of these facilities prior to the start of their operation.

January 16, 1973

- 3. That a certified wastewater treatment operator will be in responsible charge of the operation.
- 4. That the company shall submit monthly reports of the effluent from these facilities covering daily determinations of flow and pH and once per week determinations of oil and suspended solids.
- 5. That sludges shall be disposed of in a manner that is approved by the Board.

The plans were prepared by Environmental Consultants, Inc., Clarksville, and submitted for consideration on December 7, 1972.

Sincerely,

A. C. OFFUTT, M.D.

STATE HEALTH COMMISSIONER INDIANA STATE BOARD OF HEALTH

I. W. Approval No. 825 cc: Lawrence County Health Department Environmental Consultants, Inc. APPENDIX C.1

IDNR WATER WELL LOGS

Reference Number	Driving directio	ns to well			Date completed
220931	EAST OOLITIC	, I MILE EAS	r of oolitic, lot #30;		Thu, Jul 26, 1962
Owner-Contractor Well Owner	<i>Name</i> WILMA HUBBA	ARD	Address RRT. #2, BEDFORD,IN.		Telephone
Building Contractor  Drilling Contractor	ERNIE UMPHR	ESS & SONS	RRT. 6, BOX 13, BEDFORD	, IN.	
Equipment Operator	EUGENE & CH. UMPHRESS		License:		
Construction Details					
Well	Use: HOME		Drilling method: CABLE TO	OL Pump type	<b>:</b>
	Depth: 100.0		Pump setting depth:	Water qua	-
Casing Screen	Length: 20.5 Length:		Material: Material:	Diameter: Diameter:	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs Static water level: 40		at rate: 3.0 gpm for hrs.
Grouting Information	Material: Installation Meti	hod:		Depth: from to Number of bags used:	
Well Abandonment	Sealing material Installation Meth			Depth: from to Number of bags used:	
Administrative	County: LAWRE	ENCE		Township: 5N Rav	rge:  W
	Section: NW 1/4	of the SE 1/4 o	of the NW 1/4 of Section 3		Topo map: OOLITIC
	Field located by:	U		on: Mon, Jul 01, 19	963
	Courthouse local	tion by:		on:	
	Location accepte	d w/o verificati	ion by:	on:	
	Subdivision nam	e:		Lot number:	
	Ft W of EL:		Ft N of SL:	Ft E of WL: 1600	Ft S of NL: 2000
	Ground elevation	: 550.0	Depth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting: 54	12430.0		UTM Northing: 43	05503 0
Vell Log	Тор	Bottom	Formation		
	0.0	50	DIRT		
	5.0	13.0	BLUE LS-HA	RD	
	13.0	14.0	OPEN HOLE		
	14 0	23.0	BLUE LS-HA	RD	
	23.0	51.0	GRAY LS-SO	FT	
	51.0	62.0	BLUE SH-SOI	FT	
	62.0	79.0	BLUE LS-SOF	न	



#### Indiana Department of Natural Resources

Reference Number	Driving directions to well			Date completed
220852	APP 1 MI N OF BEDFORD HEIGHTS	IN, I BLK W OF PEERLESS RI	), KNOWN AS WALNUT	Fri, Nov 30, 1962
Owner-Contractor Well Owner Building Contractor	<i>Name</i> PULLAS CHILDERS CONS	Address T BEDFORD IN		Telephone
Onling Contractor	ERNIE UMPHRESS & SON	S BEDFORD IN, RR6		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TO	*	
	Depth: 200 0	Pump setting depth:	Water qualit	•
Casing Screen	Length: Length:	Material: Material:	Diameter: 6. Diameter: Si	
Vell Capacity Test	Type of test:	Test rate: gpm for hrs.		rate: 0 05 gpm for hrs.
	Drawdown: ft.	Static water level: 135	i.0 ft.	
Grouting Information	Material:		Depth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: SN Range	
	Section: 1/4 of the NW 1/4 of	the SW 1/4 of Section 2		Topo map: BARTLETTSVILL
	Field located by:  Courthouse location by:		on: on:	
	Location accepted w/o verific	ation by: U	on: Mon Jul 01, 196.	3
	Subdivision name: WALNUT	HEIGHT	Lot number:	
	Ft W of EL:	Ft N of SL:	Ft E of WL:	Ft S of NL:
	Ground elevation:	Depth to bedrock:	Bedrock elevation: A	Aquifier elevation:
	UTM Fasting:		UTM Northing:	
Vell Log	Lop Bottor	n Formation		
	0 0 100 0	BLANK		
	100 () 108 ()	BLUE LS HAR	D	
	108 0 130 0	GRAY LS SOF	Т	
	130 0 200 0	BLUE SHALE		

LAWRINGE



Reference Number	Driving directions to	well	and a section of the	Date completed
220857	BRACKENRIDGE R	D, I MI N B	EDFORD CITY LIMITS.	Thu, Jul 21, 1960
Owner-Contractor Well Contractor	<i>Name</i> JESSIE STIGALL		ddress EDFORD RR4	Telephone
Building Contractor Drilling Contractor	PAUL SCOTT	RF	R4, BLOOMINGTON IN	
Equipment Operator	PAUL SCOTT	Lie	cense:	
Construction Details				
Well	Use: HOME	Dr	illing method: CABLE TOOL	Pump type:
	Depth: 140.0		mp setting depth:	Water quality:
Casing Screen	Length: 6.0 Length:		uterial: uterial:	Diameter: 6.0 Diameter: Slot size:
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: ft.	BailTest rate: 1.0 gpm for hrs.
Grouting Information	Material:		•	oth: from to
	Installation Method:		Nu	nber of bags used:
Well Abandonment	Sealing material: Installation Method:		•	oth: from to mber of bags used:
Administrative	County: LAWRENCE			Township: 5N Range: 1W
	Section: NE 1/4 of the	SW 1/4 of th	ne SW 1/4 of Section 2	Topo map: BARTLETTSVILI
	Field located by: HS			on: Fri, Nov 04, 1960
	Courthouse location b	-		on:
	Location accepted w/o	verification	by:	on:
	Subdivision name:			Lot number:
	Ft W of EL:		Ft N of SL: 1000	Ft E of WL: 1200 Ft S of NL:
	Ground elevation: 670 UTM Easting: 543916	-	Depth to bedrock:	Bedrock elevation. Aquifier elevation: UTM Northing: 4304789 0
	-	D	ma zu	
Well Log	Гор	Bottom	Formation	
	0 0	60	BLANK	VF 140
	6.0	40 0	RUSTIC BUFF LIN	
	40.0	130.0	BLUE LIME HARD	)
	130 u	140 0	BLUE LIME SOFT	
Comments	Mt			



#### **Indiana Department of Natural Resources**

Reference Number	Driving directions to well			Date completed
220862	2 MI N BEDFORD IN, BREC HILAND BLK D, LOT I. N N	KINRIDGE RD NEAR DIVE S A ST.	SCHOOL HOUSE. BAHR'S	Tue, Jan 26, 1960
Owner-Contractor Well Owner	<i>Name</i> HOWARD ELKINS	Address RR4, BEDFORD IN		Telephone
Building Contractor	now have been to	RR4, DOD! ORD II.		
Drilling Contractor		RR6, B0X 13, BEDFORD IN		
Equipment Operator	ERNIE UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TO	•	
	Depth: 150.0	Pump setting depth:	Water qualit	•
Casing Screen	Length: Length:	Material: Material:	Diameter: 6. Diameter: Si	•
Well Capacity Test	Type of test:	Test rate: gpm for hrs	. BailTest i	rate: 3.0 gpm for 1.0 hrs.
	Drawdown: ft.	Static water level: 50.		<b>5.</b>
Grouting Information	Material:		Depth: from to	
	Installation Method:	•	Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range	
	Section: SW 1/4 of the SW 1/4	of the SW 1/4 of Section 2	:	Topo map: BARTLETTSVILL
	Field located by: BRUNS		on: Mon, Aug 01, 19	60
	Courthouse location by: Location accepted w/o verifica	stion hv	on: on:	
	Subdivision name:	by.	Lot number:	
	Ft W of EL:	Ft N of SL: 50	Ft E of WL: 300	Ft S of NL:
	Ground elevation: 700.0	Depth to bedrock:	Bedrock elevation: A	Aquifier elevation:
	UTM Easting: 544039.0		UTM Northing: 4304	3515.0
Well Log	Top Bottom	Formation		
•	0.0 109.0	BLANK		

WH LS HARD

150.0

109.0

Comments

### 7

	1			
Reference Number	Driving directions to well	Alange milion in the Material page of the de-	ngfitt nos is go gang tillerin nor	Date completed
220867	1 MI N OF IN SR 58 ON M	IT PLEASANT RD, RR4 BEDFOR	D IN.	Tue, Sep 10, 1963
Owner-Contractor Well Owner	Name GUY S. WEVER	Address RR4, BEDFORD IN		Telephone
Building Contractor Drilling Contractor	ERNIE UMPHRESS & SOI	NS BEDFORD IN, RR6		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOO	L Pump type:	
	Depth: 250.0	Pump setting depth:	Water quali	*
Casing Screen	Length: 23.0 Length:	Material: Material:	Diameter: 6 Diameter: S	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	•	rate: 0.08 gpm for hrs.
	Drawdown: ft.	Static water level: 170.	O It.	
Grouting Information	Material:		Depth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Rang	
	Section: SE 1/4 of the SE 1/	4 of the NW 1/4 of Section 1		Topo map: BARTLETTSVILLE
	Field located by: JCH		on: Mon, Aug 01, 19	
	Courthouse location by:		on:	
	Location accepted w/o verif	ication by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL:	Ft E of WL: 2500	Ft S of NL: 2600
	Ground elevation: 630 0	Depth to bedrock: 50	Bedrock elevation: 625 0	Aquifier elevation:
	UTM Easting: 545914 0		UTM Northing: 430	5331 0
Well Log	Top Botto	om Formation		
THE LUE				
well Log	0.0 4.0	CIRT		

Well Log	Тор	Bottom	Formation
	0.0	4.0	CIRT
	4 0	17.0	BROKENLS
	170	39.0	BLUF (S HARD
	390	55.0	GRAY LS HARD
	55 0	250 0	BLUE SHALE SOFT
Comments	MC 625;	p file diggesteller days been er	m dia nasa ny ri a milina danka manaka na indonésinya na mandhini ay na tahan milina dan hakaban dan haka haka na sa



Reference Number	Driving directions to well	or an advantage residence for the sea provincializer for describe the in	would be the second of the sec	pleted
217404	APP. 3MI E OF BEDFORD	IND. ON US HIGHWAY 58	Sat, Jan 0	8, 1966
Owner-Contractor Well Owner	<i>Name</i> NOEL GENE MITCHELL	Address BEDFORD, IND. R.R. 3	Telephon	?
Building Contractor  Drilling Contractor	ERNIE UMPHRESS & SON	S BEDFORD, IND. R.R. 6		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOO		
	Depth: 200.0	Pump setting depth:	Water quality:	
Casing Screen	Length: 21.5 Length:	Material: Material:	Diameter: 6.0 Diameter: Slot size:	
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs. Static water level: 90.0	BailTest rate: 0.5 gpm ft.	for hrs.
Grouting Information	Material: Installation Method:		Depth: from to Number of bags used:	
Well Abandonment	Sealing material: Installation Method:		Depth: from to Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range: 1E	
	Section: NW 1/4 of the NW	/4 of the NW 1/4 of Section 8	Topo map: BARTLET	
	Field located by: JGH		on: Mon, Aug 01, 1966	
	Courthouse location by:		on:	
	Location accepted w/o verific	ation by	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL:	Ft E of WL: 500 Ft S of NL	300
	Ground elevation: 650 0	Depth to bedrock: 20.0	Bedrock elevation: Aquifier ele	vation ·
	UTM Easting: 548642 0		UTM Northing: 4304412.0	
Well Log	Тор Воно	m Formation		
	00 60	DIRT		
	6 0 17 0	BOULDERS &	MUD HOLES	
	17 0 27 0	GRAY LS HAR	D	
	27 0 61 0	BLUE LS HAR		
	61 0 82 0	GRAY LS SOF	Γ	
	82 0 85 0	BLUE SH SOF	•	
	85 0 103 0	BLUE LS SOFT		
	103.0 200.0	BLUE SH SOFT		
Comments	MC 630.			

#### **Indiana Department of Natural Resources**

Reference Number 217409

Driving directions to well

Date completed

Telephone

3MI NE OF BEDFORD ON SR 58 IT AND FOR NEW HOUSE; TRAILER THERE NOW

Tue, Nov 27, 1962

Owner-Contractor Well Owner

**Building Contractor Drilling Contractor** 

**Equipment Operator** 

Name LAWRENCE RAY Address

R.R. #3 BEDFORD IND

ERNIE UMPHRESS & SONS BEDFORD IND. R.R. 6

**EUGENE & CHARLES UMPHRESS** 

License:

Material:

Construction Details

Well

Casing

Screen

Use: HOME Depth: 100.0 Length: 31.5 Drilling method: CABLE TOOL

Pump setting depth: Material:

Pump type:

Water quality: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft.

Length:

Test rate: gpm for hrs. Static water level: 45.0 ft. BailTest rate: 0 6 gpm for hrs.

Grouting Information

Material: Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the NE 1/4 of the NW 1/4 of Section 8

Township: 5N Range: 1E

on: Sat, Jun 01, 1963

Topo map: BARTLETTSVILLE

Field located by: UHL

Courthouse location by: Location accepted w/o verification by: on:

on:

Ft W of EL.

Ft N of SL:

Lot number: Ft E of WL: 1500

Ft S of NL: 150

Ground elevation: 620 0

Subdivision name:

Depth to bedrock: 4.0

Bedrock elevation: 616.0

Aquifier elevation:

UTM Easting: 548953 0

UTM Northing: 4304465.0

Well Log

Тор	Bottom	Formation	
0.0	4 0	DIRT	
4 ()	32 ()	BLUE LS HARD	
32.0	32.2	MUD HOLE	
32.5	44 0	BLUE LS HARD	
44 ()	51.0	GRAY LS SOFT	
51 0	7() ()	BLUE LS HARD	
70.0	100.0	BLUE SH SOFT	

10

Reference Number	Driving directions to	well			Date completed
217439	NE OF BEDFORD E	BETWEEN ?	THE MT. PLEASANT RD & PI	EASANT RUN RD	Thu, Sep 15, 1960
Owner-Contractor Well Owner	<i>Name</i> LOUIS FISH		Address R.R. 3		Telephone
Building Contractor  Drilling Contractor	FLOYD STULTZ	E	BEDFORD IND. R.R. 4		
Equipment Operator	FLOYD STULTZ	I	License:		
Construction Details					
Well	Use: STOCK	I	Orilling method: CABLE TOOL	. Pump type:	
	Depth: 125.0	P	ump setting depth:	Water quality	
Casing Screen	Length: 19.0 Length:		Aaterial: Aaterial:	Diameter: 6.0 Diameter: Sla	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs.  Static water level: 30.0 f		ue: 0.33 gpm for 8.0 hrs.
	Material:		,	South from to	
Grouting Information	Installation Method:			Depth: from to Number of bags used:	
Vell Abandonment	Sealing material:		L	Depth: from to	
	Installation Method:		۸	lumber of bags used:	
Administrative	County: LAWRENCE Section: SE 1/4 of the		the NE 1/4 of Section 6	Township: 5N Range:	Topo map:
	Field located by: H,S			on: Fri, Nov 04, 1960	BARTLETTSVILLE
	Courthouse location			on:	
	Location accepted w/	•	n by:	on:	
	Subdivision name:	<b>J</b>	<del>-</del>	Lot number:	
	Ft W of EL: 1800		Ft N of SL: 3100	Ft E of WL:	Ft S of NL:
	Ground elevation: 73	5.0	Depth to bedrock: 19.0	Bedrock elevation: 716.0	Aquifier elevation:
	UTM Easting: 54797	7.0		UTM Northing: 43053	296.0
Vell Log	Тор	Bottom	Formation		
	0.0	19.0	CLAY		
	190	125.0	HARD LS		
Comments	MC715;				

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

Telephone

217429

APPR. 3MJ E OF BEDFORD, IND. ON US HIGHWAY #58 N/SIDE OF RD

Thu, Aug 26, 1965

Owner-Contractor

Well Owner **Building Contractor Drilling Contractor** 

Name **ROBERT WATSON**  Address

BEDFORD, IND.

**EUGENE & CHARLES** Equipment Operator **UMPHRESS** 

ERNIE UMPHRESS & SONS BEDFORD, IND. R.R. 6

License:

Construction Details

Well

Casing

Screen

Use: HOME Depth: 200.0 Length: 12.0 Drilling method: CABLE TOOL

Pump setting depth:

Material: Material: Pump type:

Water quality: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft.

Length:

Test rate: gpm for hrs. Static water level: 40.0 ft. BailTest rate: 0.5 gpm for hrs.

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SE 1/4 of the NE 1/4 of the NE 1/4 of Section 7

Township: 5N Range: 1E

on: Mon, Aug 01, 1966

Topo map: BARTLETTSVILLE

Field located by: JUH

Courthouse location by: Location accepted w/o verification by:

on: on:

Subdivision name:

MC625;

Ft N of SL:

Lot number:

Ft W of EL: 400

Ft E of WL:

Ft S of NL: 700 Aquifier elevation:

Ground elevation: 630.0 UTM Easting: 548374.0 Depth to bedrock: 50

Bedrock elevation: 625.0

UTM Northing: 4304308.0

Well Log

Тор	Bottom	Formation
0.0	7.0	DIRT
7.0	14.0	LS BOULDERS
14 0	31.0	GRAY LS HARD
31 0	50.0	BR LS SOUT
50 0	89.0	GRAY ENTEND
89 ()	125.0	BLUELSHARD
125 0	200.0	BLUE SHOOFT



107.0

MC640;

200.0

#### Indiana Department of Natural Resources

Reference Number	Driving directions to well		Date completed		
217424	3MI E OF BEDFORD ON SE	1.58	Wed, Jul 17, 1963		
<i>Owner-Contractor</i> Well Owner	<i>Name</i> JERRY NEAL	Address 1321 STH STREET, BEDFORD,	Telephone		
Building Contractor					
Drilling Contractor	ERNIE UMPHRESS & SONS EUGENE & CHARLES				
Equipment Operator	UMPHRESS	License:			
Construction Details					
Weli	Use: HOME	Drilling method: CABLE TOOL	Pump type:		
	Depth: 200.0	Pump setting depth:	Water quality:		
Casing Screen	Length: 16.0 Length:	Material: Material:	Diameter: 6.0 Diameter: Slot size:		
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest rate: 1.0 gpm for hrs		
	Drawdown: ft.	Static water level: 50.0 ft.			
Grouting Information	Material:		epth: from to		
	Installation Method:	N	umber of bags used:		
Well Abandonment	Sealing material:		epth: from to		
	Installation Method:	N	umber of bags used:		
Administrative	County: LAWRENCE		Township: 5N Range: 1E		
	Section: NE 1/4 of the NE 1/4	of the NE 1/4 of Section 7	<i>Topo map:</i> BARTLETTSVIL		
	Field located by: JLH		on: Mon, Aug 01, 1966		
	Courthouse location by:		on:		
	Location accepted w/o verific	ation by:	on:		
	Subdivision name:		Lot number:		
	Ft W of EL: 200	Ft N of SL:	Ft E of WL: Ft S of NL: 600		
	Ground elevation: 650 0	Depth to bedrock: 10 0	Bedrock elevation: Aquifier elevation		
	UTM Easting: 548420 0		UTM Northing: 4304326.0		
Well Log	Top Botton	n Formation			
	0.0 8 0	DIRT			
	80 120	LS BOULDERS H	ARD		
	12 0 34 0	WHESSOFT			
	34.0 78 0	BLUE LS HARD			
	78.0 83 0	GRAYISHARD			
	70.0				

BLUE SH SOFT

Reference Number	Driving directions to well			Date completed	
217419	LOCATED NEAR SR58E C BARTLITSVILLE RD	LOCATED NEAR SR58E OF BEDFORD ABOUT 1.5MI E OF CITY LIMITS BED-BARTLITS VILLE RD			
Owner-Contractor Well Owner Building Contractor	<i>Name</i> HARRY E.	Address R.R. #3 BEDFORD IND.		Telephone	
Drilling Contractor Equipment Operator	ERNIE UMPHRESS & SON ERNIE UMPHRESS	S R.R. 6 BOX 13 BEDFORD IND License:		,	
Construction Details					
Well	Use: HOME	Drilling method: CABLE TOOL	Pump type:		
C. t.	Depth: 155.0	Pump setting depth:	Water qualit		
Casing Screen	Length: 11.83 Length:	Material: Material:	Diameter: 6. Diameter: Sl		
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs.  Static water level: 46.0 ft.		rate: 0.4 gpm for 1.0 hrs	
Grouting Information	Material: Installation Method:		epth: from to umber of bags used:		
Well Abandonment	Sealing material: Installation Method:		epth: from to umber of bags used:		
Administrative	County: LAWRENCE		Township: 5N Range	e- 16	
716/16/16/16	Section: SW 1/4 of the NE 1/	4 of the NE 1/4 of Section 7	10misnip. Sit Kunge	Topo map: BARTLETTSVILLE	
	Field located by: BARNES		on: Mon, Aug 01, 19	60	
	Courthouse location by:		on:		
	Location accepted w/o verific	cation by:	on:		
	Subdivision name:		Lot number:		
	Ft W of EL: 1100	Ft N of SL:	Ft E of WL:	Ft S of NL: 1100	
	Ground elevation: 680 0	Depth to bedrock: 6 0	Bedrock elevation: 674 0	Aquifier elevation:	
	UTM Easting: 548165 0		UTM Northing: 4304	180.0	
		$\sim$			
Well Log	Тор Воно	m Formation			
	0.0 6 0	DIRT			
	6.0 8 0	HARD SHELLIE I	LIME WH		
	8.0 115.0	WH LIME HARD			
	1150	BLUE LIME HAR	n		
	115.0 137.0	DEUE LIME HAN	U		



Reference Number	Driving directions to	Date completed		
220872	3 MI NE OF BEDFO	Thu, Dec 10, 1959		
Owner-Contractor Well Owner Building Contractor	<i>Name</i> DONALD FISH		ldress DFORD RR4	Telephone
Drilling Contractor	FLOYD STULTZ	BE	DFORD IN, RR4	
Equipment Operator	FLOYD STULTZ	Lic	ense:	
Construction Details				
Well	Use: STOCK	Dr	illing method: CABLE TOOL	Pump type:
	Depth: 70.0	Pu	mp setting depth:	Water quality:
Casing Screen	Length: 14.0 Length:		sterial: sterial:	Diameter: 6.0 Diameter: Slot size:
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: ft.	BailTest rate: gpm for 8.0 hrs.
Grouting Information	Material:		De	pth: from to
	Installation Method:		Nu	umber of bags used:
Well Abandonment	Sealing material: Installation Method:		•	pth: from to nmber of bags used:
Administrative	County: LAWRENCE			Township: 5N Range: IW
	Section: SE 1/4 of the	NE 1/4 of the	SE 1/4 of Section 1	Topo map: BARTLETTSVILL
	Field located by: BRU	INS		on: Mon, Aug 01, 1960
	Courthouse location b	y:		on:
	Location accepted w/a	verification	by:	on:
	Subdivision name:			Lot number:
	Ft W of EL: 600		Ft N of SL: 1950	Ft E of WL: Ft S of NL:
	Ground elevation: 700	0.0	Depth to bedrock:	Bedrock elevation: Aquifier elevation:
	UTM Easting: 546567	0.0		UTM Northing: 4305114 0
Vell Log	Тор	Bottom	Formation	
-	0.0	14.0	14' CLAY	
	140	70.0	56' LS	
omments	MC 690;			

#### Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed		
217905	W OF BEDFORD 1 MI 1.25	MIS ON WILLIAMS RD, ESI	DE.	Sat, Sep 25, 1965
Owner-Contractor Well Owner	<i>Name</i> GORDEN LEE HAMILTON	Address BEDFORD RR		Telephone
Building Contractor  Drilling Contractor	ROY E ALFORD	MITCHELL RR1		
Equipment Operator	ROY E ALFORD	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TO	OL Pump type:	
	Depth: 150 0	Pump setting depth:	Water qualit	y:
Casing Screen	Length: 39 5 Length:	Material: Material:	Diameter: 6. Diameter: Si	=
Well Capacity Test	Type of test: Drawdown: ft	Test rate: gpm for hrs. Static water level: 70.		rate: 1 0 gpm for hrs.
Grouting Information	Material:		Depth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE Section: NW 1/4 of the SW 1/4	4 of the NE 1/4 of Section 21	Township: 5N Range	e: 1W Topo map: BEDFORD WEST
	Field located by: JCH		on: Mon. Aug 01, 19	
	Courthouse location by:		on:	
	Location accepted w/o verifica	tion by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL: 2500	Ft N of SL:	Ft E of WL:	Ft S of NL: 1900
	Ground elevation: 650 0	Depth to bedrock: 39.0	Bedrock elevation: 611 ()	Aquifier elevation:
	UTM Easting: 541146 0		UTM Northing: 4300	0669 0
Vell Log	Top Bottom	Formation		
· ·	00 390	SOIL & CLAY	FEW BOULDERS	

**GREY LIME** 

WHLIME

100 0

1500

39 ()

100 0

MC 610

Comments

18

Reference Number	Driving directions to	Date completed			
217900	FROM BEDFORD G TURN ELFT AT 2NI	Mon, Dec 09, 1963			
Owner-Contractor Well Owner	Name GENE BEX	P	Address		Telephone
Building Contractor Drilling Contractor	LOUIE O. SMITH	F	RI BEDFORD		
Equipment Operator	LOUIE O. SMITH		License:		
Construction Details					
Well	Use: HOME	I	Orilling method: CABLE TO	OL. Pump typ	e:
	Depth: 170.0		Pump setting depth:	Water qui	<del>-</del>
Casing Scr <del>ee</del> n	Length: 48.0 Length:		Aaterial: Aaterial:	Diameter: Diameter:	: 6.25 : Slot size:
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 95.0		st rate: 5.0 gpm for 2.0 hrs.
Grouting Information	Material: Installation Method:			Depth: from to Number of bags used:	
Well Abandonment	Sealing material: Installation Method:			Depth: from to Number of bags u :ed:	
Administrative	County: LAWRENCE  Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 21			Township: 5N Rai	nge: 1W Topo map: BEDFORD WEST
	Field located by: JVH			on: Mon, Aug 01,	
	Courthouse location l	by:		on:	
	Location accepted w/o	o verificatio	n by:	on:	
	Subdivision name:		•	Lot number:	
	Ft W of EL: 2500		Ft N of SL:	Ft E of WL:	Ft S of NL: 2100
	Ground elevation: 660	0.0	Depth to bedrock: 25 ()	Bedrock elevation.	
	UTM Easting: 541182.0		20,000	635 0 UTM Northing: 43	•
Nell Log	Тор	Bottom	Formation		
	0.0	20.0	REDCLAY		
	20.0	25.0	BROWN CLAY	,	
	25.0	27.0	SHFLL.		
	27.0	29.0	HARDTIME		
	29.0	30.0	BLANK		
	30.0	40.0	LIME		
	40.0	41.0	BROKEN		
,	41.0	60.0	HARDLIME		
	60 0	125.0	MED LINE WE	игь	
	125 0	130.0	HARDIME		
	130 0	170.0	1.8		

0

Reference Number	Driving direction	Date completed				
217895	FROM BEDFO LOTS. WILL B	Wed, May 15, 1963				
Owner-Contractor Well Owner	<i>Name</i> GLEN CRAIG		Address BEDFORD			Telephone
Building Contractor  Drilling Contractor	LOUIE O. SMIT	TH F	R#1, BEDFORD			
Equipment Operator	LOUIE O. SMIT	TH I	License:			
Construction Details						
Well	Use: HOME		Prilling method: CABLE T	OOL	Pump type:	
<b>9</b>	Depth: 175.0		ump setting depth:		Water quality	
Casing Screen	Length: 52.0 Length:		faterial: faterial:	,	Diameter: 6.2 Diameter: Slo	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for h Static water level: 1		BailTest ra	nte: 2.0 gpm for 2.0 hrs.
Grouting Information	Material: Installation Met	hod:		•	: from to er of bags used:	
Vell Abandonment	Sealing materia Installation Met			•	: from to er of bags used:	
Administrative	County: LAWRENCE Section: SE 1/4 of the SW 1/4 of the NE 1/4 of Section 21				Township: 5N Range:	IW <i>Topo map:</i> BEDFORE WEST
	Field located by	PW			on: Tue, Aug 17, 1971	
	Courthouse loca	tion by:			on:	
	Location accept	ed w/o verificatio	n by:		on:	
	Subdivision nan	ne:			Lot number:	
	Ft W of EL: 180	0	Ft N of SL:		Ft E of WL:	Ft S of NL: 2150
	Ground elevation	n: 670.0	Depth to bedrock: 22 0		Bedrock elevation: 648 0	Aquifier elevation:
	UTM Easting: 541371.0				UTM Northing: 43005	572.0
Vell Log	Тор	Bottom	Formation			
	0.0	20.0	CLAY			·
	20.0	22.0	BR CLAY			
	22.0	30.0	SHELI			
	30.0	47.0	HARDLIM	:		
	47.0	52.0	SOFI			
	52.0	85.0	HARDT MI			
	85.0	165 0	MD LIME			
	165.0	175.0	HARD! NE	•		
	105.0	115.0				

20

#### Indiana Department of Natural Resources

<i></i>						
Reference Number	Driving directions to	well	applicable of 1 ( ), appears one is interested to a religious	er i dan Att - Norgas segundur - Tarons	Date completed	
217885	FROM BEDFORD GO RD LEFT (BEX EDIT		ST ON 16TH TURN LEFT ON 4	50 GO APPROX25 MI IST Fri, Jun 19, 1970		
Owner-Contractor Well Owner Building Contractor	Name WARREN WILMAN		Address R1 BEDFORD		Telephone	
Drilling Contractor	LOUIE SMITH	F	R1 BEDFORD			
Equipment Operator	LOUIE SMITH	I	License:			
Construction Details						
Well	Use: HOME	I	Orilling method: CABLE TOOL	Pump type:		
	Depth: 135.0		Pump setting depth:	Water qualii	ty:	
Casing Screen	Length: 42.0 Length:		Aaterial: Aaterial:	Diameter: 6. Diameter: S		
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 95.0 ft.		rate: 15.0 gpm for 2.0 hrs.	
Grouting Information			epth: from to number of bags used:			
Well Abandonment	Sealing material: Installation Method:	_				
Administrative	County: LAWRENCE Section: NW 1/4 of the	SW 1/4 o	f the NE 1/4 of Section 21	Township: 5N Range	e: IW  Topo map: BEDFORD  WEST	
	Field located by: PW			on: Tue, Aug 17, 197	* *	
	Courthouse location by	y:		on:		
	Location accepted w/o	verificatio	on by:	on:		
	Subdivision name:			Lot number:		
	Ft W of EL: 2200		Ft N of SL:	Ft E of WL:	Ft S of NL: 1650	
	Ground elevation: 630	.0	Depth to bedrock: 16.0	Bedrock elevation:	Aquifier elevation:	
	UTM Easting: 541274.	.0		UTM Northing: 4300	0718.0	
Vell Log	Тор	Bottom	Formation			
	0.0	160	CLAY			
	16.0	38.0	BROKEN LIME			
	38.0	75.0	LIME			
		01.0	114881445			
	75.0	81.0	HARDLIME			

MC615: VERIFIED BY OWNER

Comments

#### Indiana Department of Natural Resources

Re	fer	ence	Number
4	•	700	Δ.

Driving directions to well

Date completed

217880

FROM BEDFORD GOING W TURN LEFT ON 450 GO APPRX. .5 MI STONE HOUSE ON

LEFT; THOMAS CHESTNUT PLACE

Sun, Dec 15, 1968

Owner-Contractor Well Owner **Building Contractor** 

Name THOMAS CHESTNUT Address R1 BEDFORD Telephone

Drilling Contractor **Equipment Operator** 

**LOUIE SMITH LOUIE SMITH** 

R1 BEDFORD License-

Pump setting depth:

Construction Details

Use: HOME Depth: 179.0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen

Length: 60.0 Length:

Material: Material:

Diameter: 6.25 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 139.0 ft. BailTest rate: 1.5 gpm for 2.0 hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 21

Township: 5N Range: 1W

on: Tue, Aug 17, 1971

Topo map: BEDFORD

WEST

Field located by: PW

Courthouse location by:

Location accepted w/o verification by:

on:

Subdivision name:

Ft W of EL: 2450

Ft N of SL:

Ft E of WL:

Ft S of NL: 2500

Ground elevation: 665.0

Depth to bedrock: 50 0

Bedrock elevation: 6150

Lot number:

Aquifier elevation:

UTM Easting: 541182 0

UTM Northing: 4300462 0

Well Log

Bottom	Formation
50 0	CLAY
60 0	SOFT LIME
140 0	LIME
155 0	MED LIME
179 0	HARD LIME
	50 0 60 0 140 0 155 0

MC615, VERIFIED BY OWNER

22

Reference Number	Driving direction:	to well	e in third drives — editory ) p — editory the con-	diggive dhagar stress asepsaté se un quatier i dipague manue pu	Date completed
217910	FROM BEDFORI HOMESITES IS			JT .5 MI TURN L AT BIXE'S	Fri, Nov 17, 1967
Owner-Contractor Well Owner Building Contractor	Name ROY BAKER		Address R1, BEDFORD		Telephone
Drilling Contractor	LOUIE O. SMITH	R	R#1, BEDFORD		
Equipment Operator	LOUIE O. SMITH	L	icense:		
Construction Details					
Well	Use: HOME	D	orilling method: CABLE TOC	OL Pump type:	
	Depth: 145.0	P	ump setting depth:	Water quality	<b>:</b>
Casing Screen	Length: 45.0 Length:		laterial: laterial:	Diameter: 6.2 Diameter: Slo	_
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: ft.	BailTest ra	ue: 8.0 gpm for 1.0 hrs.
Grouting Information	Material: Installation Metho	d:		Depth: from to Number of bags used:	
Well Abandonment	Sealing material: Installation Metho	d:		Depth: from to Number of bags used:	
Administrative	County: LAWREN	CE .		Township: 5N Range:	
	Section: NW 1/4 o	the SW 1/4 of	the NE 1/4 of Section 21		Topo map: BEDFORD WEST
	Field located by: P	w		on: Mon, Aug 16, 197	1
	Courthouse location	n by:		on:	
	Location accepted	w/o verificatio	n by:	on:	
	Subdivision name.			Lot number:	
	Ft W of EL: 2200		Ft N of SL:	Ft E of WL:	Ft S of NL: 1850
	Ground elevation	660 O	Depth to bedrock: 30 0	Bedrock elevation: 630 0	Aquifier elevation
	UTM Easting 541	298 0		UTM Northing: 43006	63 0
Vell Log	Тор	Bottom	Formation		
	0.0	30.0	CLAY		
	30 0	34 ()	BR		
	34 0	38.0	LIME		
	38 0	45 ()	BROKEN		
	45 0	145.0	LIME		

13

Reference Number	Driving directio	ns to well	des Mirak Mirir Beginn <del>(Militaria)</del>	) / MM 100 - 40 WHOME	Date completed
217875	FROM BEDFO	Mon, Nov 06, 1961			
Owner-Contractor Well Owner	<i>Name</i> WAYNE TIREY		dress 1, BEDFORD		Telephone
Building Contractor  Drilling Contractor	LOUIE O. SMIT	'H R#	1, BEDFORD		
Equipment Operator	LOUIE O. SMIT		cense:		
Construction Details					
Well	Use: HOME	Dr	illing method: CABLE TOO	L Pump type:	
	Depth: 150.0	Pu	mp setting depth:	Water qualit	ty:
Casing Screen	Length: 32.0 Length:		uerial: uerial:	Diameter: 6. Diameter: Si	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 100.		rate: 1.0 gpm for 1.0 hrs.
Grouting Information	Material: Installation Met	hod:		Depth: from to Number of bags used:	
Well Abandonment	Sealing material Installation Met			Depth: from to Number of bags used:	
Administrative	County: LAWRE	ENCE		Township: 5N Range	e: 1W
	Section: SW 1/4	of the NW 1/4 of t	he NE 1/4 of Section 21		Topo map: BEDFORD WEST
	Field located by:	U		on: Tue, Oct 01, 196	3
	Courthouse loca	tion by:		on:	
	Location accepte	d w/o verification	by:	on:	
	Subdivision nam	e:		Lot number:	
	Ft W of EL: 2000	0	Ft N of SL:	Ft E of WL:	Ft S of NL: 1200
	Ground elevation	e: 660.0	Depth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting: 5-	113100		UTM Northing: 4300	0864 0
Well Log	Тор	Bottom	Formation		
	0 0	26 0	CLAY		
	26 0	28 0	LIME		
	28 0	31.0	CLAY		
	31.0	50 υ	LS		
	51.0	65.0	WH LIME		
	65.0	66 ()	BROKEN		
	65 0 66 0	66 () 150 ()	BROKEN WH LIME		

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24

Reference Number	Driving directions t	o well	Date completed	
220877	3 MI NE OF BEDFO	ORD IN, ON M	IT PLEASANT RD.	Tue, Dec 22, 1959
Owner-Contractor Well Owner	Name ELMER FISH		dress DFORD IN RR4	Telephone
Building Contractor  Drilling Contractor	FLOYD STULTZ	BE	DFORD IN, RR4	
Equipment Operator	FLOYD STULTZ		ense:	
Construction Details		•		
Well	Use:	Dri	illing method: CABLE TOOL	Pump type:
	Depth: 86.0	Pui	mp setting depth:	Water quality:
Casing Screen	Length: 11.0 Length:		terial: terial:	Diameter: Diameter: Slot size:
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest rate: gpm for hrs.
	Drawdown: ft.		Static water level: ft.	
Grouting Information	Material:		•	pth: from to
	Installation Method	<u>'</u>	Nu	mber of bags used:
Well Abandonment	Sealing material:			pth: from to
	Installation Method	<b>!:</b>	Nu	mber of bags used:
Administrative	County: LAWRENC			Township: 5N Range: 1W
	Section: NW 1/4 of	the NW 1/4 of t	the SE 1/4 of Section 1	Topo map: BARTLETTSVILL
	Field located by: BF	RUNS		on: Mon, Aug 01, 1960
	Courthouse location	ı <i>by:</i>		on:
	Location accepted w	oo verification	by:	on:
	Subdivision name:			Lot number:
	Ft W of EL: 2500		Ft N of SL: 2400	FIE of WL: FIS of NL:
	Ground elevation: 6	25 0	Depth to bedrock:	Bedrock elevation. Aquifier elevation:
	UI M Easting: 5459	70 0		UTM Northing: 4305216 0
Well Log	fop	Bottom	Formation	
-	00	110	CLAY	
		86 0	LS	

28

Reference Number	Driving directions to well		•	Date completed
220841	ON SR 58, 1 MI E OF BEDF	ORD, R3.		Mon, Oct 05, 1964
Owner-Contractor Well Owner	Name MRS. JOSEPH A. MEYERS	Address BEDFORD RR3		Telephone
Building Contractor Drilling Contractor	FLOYD STULTZ	BEDFORD IN RR4		
Equipment Operator	FLOYD STULTZ	License:		
Construction Dataile				
Construction Details Well	Use: HOME	Drilling method: CABLE TOOL	. Pump type:	
** (.)	Depth: 144.0	Pump setting depth:	. rump type: Water qualit	hv.•
Casing Screen	Length: 40.0 Length:	Material: Material:	Diameter: 6. Diameter: S	.0
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest i	rate: 0.06 gpm for 8.0 hrs.
	Drawdown: ft.	Static water level: 60.0 t	ft.	
Grouting Information	Material:	ı	Depth: from to	
	Installation Method:	1	Number of bags used:	
Well Abandonment	Sealing material:	1	Depth: from to	
	Installation Method:	1	Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Rang	
	Section: NE 1/4 of the SW 1/4	of the SE 1/4 of Section 12		<i>Topo map:</i> BARTLETTSVILLE
	Field located by: JCH		on: Mon, Aug 01, 19	66
	Courthouse location by:		on:	
	Location accepted w/o verifice	ation by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL: 1700	Ft N of SL: 800	Ft E of WL:	Ft S of NL:
	Ground elevation: 720.0	Depth to bedrock: 40 0	Bedrock elevation: 6800	Aquifier elevation:
	UTM Easting: 546244.0		UTM Northing: 430	3186.0
Well Log	Top Botton	n Formation		
	0.0 40.0	ROCK & CLAY		
	40 0 144 0	LS		

20

Reference Number	Driving directions to wel	abbits also community in the edge of agreed a special and continue a second all designs or bi- !	The second of th	Date completed
220959	SR 50E OF BEDFORD IN		Mon, Dec 28, 1959	
Owner-Contractor	Name	Address		Telephone
Well Owner	TRI-ANGLE CONSTR CI	D BEDFORD IN		
Building Contractor				
Drilling Contractor Equipment Operator	ERNIE UMPHRESS & SC ERNIE UMPHRESS & SC	DNS RR6, BOX 13,BEDFORD IN DNS License:		
Construction Details				
Well	Use: INDUSTRY	Drilling method: CABLE TO	OL Pump type:	
	Depth: 250.0	Pump setting depth:	Water quality:	
Casing Screen	Length: 6.5 Length:	Material: Material:	Diameter: 6.0 Diameter: Slot	size:
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs Static water level: 50.		e: 0.92 gpm for 1.0 hrs.
Grouting Information	Material: Installation Method:		Depth: from to Number of bags used:	
Well Abandonment	Sealing material: Installation Method:		Depth: from to Number of bags used:	
Administrative	County: LAWRENCE Section: SW 1/4 of the SE	1/4 of the SE 1/4 of Section 13	Township: 5N Range: 1	IW Opo map: BEDFORD EAST
	Field located by: BAINES		on: Fri, Jul 01, 1960	
	Courthouse location by:		on:	
	Location accepted w/o ver	fication by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL: 1150	Ft N of SL: 100	Ft E of WL: Fi	t S of NL:
	Ground elevation: 560.0	Depth to bedrock:	Bedrock elevation: A	quifier elevation:
	UTM Easting: 546396.0		UTM Northing: 430133	0.0
Vell Log	Тор Во	tom Formation		
	0.0 2.0	CLAY DIR I		
	2 0 35.	0 WHITIME SOI	Ŧ	
	35.0 55.	D BLUE LIME F	ARD	
	55.0 70.	0 WHIIMEHY	RD	
	70.0	.0 BLUE LIME H	ARD	
	115.0 143	.0 GRAY LIME I	LIRD	
	142.0 250	.0 BEUE SHALF		
	MC 560;			

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Reference Number	Driving directions	Date con	npleted			
220847	E. OF OALITE, IN. LOT #68 WALNUT HEIGHTS ADDITION;			Mon, Sep 23, 1963		
Owner-Contractor Well Owner	Name ROSCOE ELKINS		Address RRT. #8, BLOOMINGTON, IN.	Telephoi	ie	
Building Contractor Drilling Contractor	GEORGE SNOPP	j	RRT. #4, BLOOMINGTON, IN.			
Equipment Operator	GEORGE SNOPP	I	License:			
Construction Details						
Well	Use: HOME		Orilling method: CABLE TOOL	Pump type:	Pump type:	
	Depth: 55.0	1	Pump setting depth:	Water quality:		
Casing Screen	Length: 14.0 Length:		Material: Material:	Diameter: 6.0 Diameter: Slot size:		
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest rate: 0.2 gpm for hrs.		
	Drawdown: ft.		Static water level: 23.0 ft			
Grouting Information	Material:		Dep	Depth: from to		
	Installation Method:		Nun	nber of bags used:		
Well Abandonment	Sealing material:		Depth: from to			
	Installation Method:		Number of bags used:			
Administrative	County: LAWRENCE			Township: 5N Range: 1W		
	Section: SW 1/4 of the NW 1/4 of the SW 1/4 of Section 2			<i>Topo ma</i> BARTLE	o: TTSVILLE	
	Field located by: JC			on: Mon, Aug 01, 1966		
	Courthouse location by:  Location accepted w/o verification by:			on: on:		
	Subdivision name:			Lot number:		
	Ft W of EL:		Ft N of SL: 1700	Ft E of WL: 650 Ft S of N	L:	
	Ground elevation: 655.0		Depth to bedrock: 15 0	Bedrock elevation: Aquifier of	elevation:	
	UTM Easting: 543648.0			UTM Northing: 4305014.0		
Well Log	Тор	Bottom	Formation			
	00	14.0	DIRT:		· · · · · · · · · · · · · · · · · · ·	
	14 0	55.0	WHITE HARD LS			
umments	MC 640, WELL PUMPED DRY DURING 1FST,					
			man at the second of the secon		-	

#### Indiana Department of Natural Resources

Reference Number	Driving directions	Date completed				
223305	4 MI N OF BEDFO	Mon, Oct 26, 1959				
Owner-Contractor Well Owner Building Contractor	<i>Name</i> JAMES GRAVES	Ad RF	ldress t 4		Telephone	
Drilling Contractor	FLOYD P. STULTZ	Z BE	DFORD IND. RR 4			
Equipment Operator	FLOYD STULTZ	Lic	cense:		,	
Construction Details						
Well	Use: HOME Di		illing method: CABLE TOOL	Pump type:		
	Depth: 115.0		mp setting depth:	Water quali	*	
Casing Screen	Length: 8.5 Length:		tterial: tterial:	Diameter: 6 Diameter: S		
Vell Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs.  Static water level: 40.0 ft.	BailTest rate: 0.3 gpm for 1.0 hrs		
Grouting Information	Material: Installation Method	' <del>:</del>		Depth: from to  Number of bags used:		
Vell Abandonment	Sealing material:			epth: from to		
	In:tallation Method:			Number of bags used:		
Administrative	County: LAWRENC		e NE 1/4 of Section 36	Township: 6N Rang	Topo map:	
			BARTLETTSVILLE on: Mon, Aug 01, 1960			
	Field located by: BARNES  Courthouse location by:			on:	00	
	Location accepted w/o verification by: NO			on:		
	Subdivision name:			Lot number:		
	Ft W of EL: 1700		Ft N of SL: 2700	Ft E of WL:	Ft S of NL:	
	Ground elevation: 730.0		Depth to bedrock:	Bedrock elevation: 615.0	Aquifier elevation:	
	UTM Easting: 54618	88.0		UTM Northing: 4306	5949.0	
Vell Log	Тор	Bottom	Formation			
	0.0	8.5	CLAY			
	8.5	73.5	SOFT LS			
	73.5	115.5	HARD LS			

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32

Reference Number Driving directions to well		well			Date completed	
223310	PEERLESS RD 5 MI	N. N OF B	EDFORD RR 4		Fri, Oct 23, 1964	
<i>Owner-Contractor</i> Well Owner	<i>Name</i> HAROLD SMITH		Address BEDFORD RR 4		Telephone	
Building Contractor Drilling Contractor	FLOYD STULTZ	ı	BEDFORD RR 4 IND.			
Equipment Operator	FLOYD STULTZ		License:			
Construction Details						
Well	Use: HOME	1	Orilling method: CABLE TOOL	Pump type:		
	Depth: 225.0		ump setting depth:	Water quality		
Casing Scr <del>e</del> en	Length: 16.0 Length:		Aaterial: Aaterial:	Diameter: 5.6 Diameter: Slo		
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 75.0 ft.		ute: gpm for hrs.	
Grouting Information	Frouting Information Material:		Depth: from to			
	Installation Method:		N	umber of bags used:		
Well Abandonment	Sealing material: Installation Method:			epth: from to umber of bags used:		
Administrative	Country I A WIDENCE	_		Township (N. Paus	· · · · ·	
Laminisirative	County: LAWRENCE Section: SW 1/4 of the		f the NE 1/4 of Section 35	Township: 6N Range:	Topo map: BARTLETTSVILLE	
	Field located by: JRD	,		on: Tue, Aug 08, 1978		
	Courthouse location i	by:		on:		
	Location accepted w/e	o verificatio	on by:	on:		
	Subdivision name:			Lot number:		
	Ft W of EL: 2000		Ft N of SL:	Ft E of WL:	Ft S of NL: 1000	
	Ground elevation: 60	0 0	Depth to bedrock: 160	Bedrock elevation: 584.0	Aquifier elevation	
	UTM Easting 54452-	1 ()		UTM Northing: 4307	387 ()	
Vell Log	Тор	Bottom	Formation			
	0 0	16.0	CLAY			
	16 0	90.0	LS			
	90 ()	225.0	SOAPSTONE			

33

Reference Number	Driving directions to well	nick committee and an incident and the state of the state	Date completed
217307	5 MI N OF BEDFORD ON P	Fri, Oct 16, 1959	
Owner-Contractor Well Owner	<i>Name</i> WM. MCKEE ANDERSON	Address BEDFORD IND. RR 4	Telephone
Building Contractor Drilling Contractor	FLOYD STULTZ	RR 4 BOX 72 BEDFORD INDIA	NA
Equipment Operator	FLOYD STULTZ	License <sup>-</sup>	
Construction Details			
Well	Use: STOCK	Drilling method: CABLE TOOL	Pump type:
	Depth: 162.0	Pump setting depth:	Water quality:
Casing Screen	Length: 11.0 Length:	Material: Material:	Diameter: 6.5 Diameter: Slot size:
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs.  Static water level: ft.	BailTest rate: 1.0 gpm for 8.0 hrs.
Grouting Information	Material:	De	epth: from to
	Installation Method:	N	umber of bags used:
Well Abandonment	Sealing material: Installation Method:		epth: from to umber of bags used:
Administrative	County: LAWRENCE		Township: 6N Range: 1W
	Section: SW 1/4 of the SE 1/4	of the SW 1/4 of Section 26	Topo map: BARTLETTSVILLE
	Field located by: BARNES		on: Thu, Sep 01, 1960
	Courthouse location by:		on:
	Location accepted w/o verific	ation by: NO	on:
	Subdivision name:		Lot number:
	Ft W of EL:	Ft N of SL: 50	Ft E of WL: 1900 Ft S of NL:
	Ground elevation: 680 0	Depth to bedrock:	Bedrock elevation: Aquifier elevation:
	UTM Easting: 544086 0		UTM Northing: 4307713 0
Well Log	Top Bottor	n Formation	
	0.0	CLAY	
	11 0 130 0	HARD LS	
	130.0 166.0	SOAPSTONE	
Comments	MC 670		

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34

Reference Number	Driving directions t	to well		Date completed
217312	5 MI N OF BEDFORD ON N		EASANT RD	Fri, Nov 02, 1962
Owner-Contractor Well Owner	<i>Name</i> JOHN STULTZ		dress DFORD RR 4	Telephone
Building Contractor	CT OVER CONT. IT TOO		4000-00-00-00-00-00-00-00-00-00-00-00-00	
Drilling Contractor	FLOYD STULTZ		4 BOX 72 BEDFORD INDI	ANA
Equipment Operator	FLOYD STULTZ	Lic	ense:	
Construction Details				
Well	Use: STOCK	Dri	illing method: CABLE TOO	L Pump type:
	Depth: 150.0	Pu	mp setting depth:	Water quality:
Casing Screen	Length: 18.0 Length:		terial: terial:	Diameter: 6 0 Diameter: Slot size:
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest rate: 0.01 gpm for 8 0 hrs.
	Drawdown: ft.		Static water level: 90.0	ft.
Grouting Information	Material:			Depth: from to
	Installation Method	<b>:</b>		Number of bags used:
Well Abandonment	Sealing material:			Depth: from to
	Installation Method	;		Number of bags used:
Administrative	County: LAWRENC	Œ		Township: 6N Range: 1W
	Section: NW 1/4 of t	the SE 1/4 of th	ne SE 1/4 of Section 26	Topo map: BARTLETTSVILL
	Field located by: WI	HIL		on: Sat. Jun 01, 1963
	Courthouse location	by:		on:
	Location accepted w	o verification	by:	on:
	Subdivision name:			Lot number:
	Ft W of EL:		Ft N of SL: 1300	Ft E of WL. 1200 Ft S of NL:
	Ground elevation: 6	80.0	Depth to bedrock:	Bedrock elevation: Aquifier elevation:
	UTM Easting: 5447	32 0		UTM Northing: 4308097 0
W-U I	Тор	Bottom	Formation	•
Well Log	00	18 0	CLAY	
	180	150 0	HARD LS	
C	MC445			
Comments	MC665			on any and the state of the sta

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# 35

Reference Number	Driving directions to we	u			Date completed
217347	ON PEERLESS RD ASK	OF JUDAH STO		Sat, Jul 25, 1959	
Owner-Contractor Well Owner	Name HORACE MEADOWS	Address R #4 BEDI	FORD IND.		Telephone
Building Contractor  Drilling Contractor	FLOYD STULTZ	P#4 REDI	FORD IND.		
Equipment Operator	FLOYD STULTZ	License:	OKD IND.		
Construction Details					
Well	Use: HOME	Drilling m	ethod: CABLE TOOL	Pump type:	
	Depth: 115.0	Pump setti	ng depth:	Water quality:	•
Casing Scr <del>ee</del> n	Length: 33.0 Length:	Material: Material:		Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test:	Tes	st rate: gpm for hrs.	BailTest ra	te: gpm for 4.0 hrs.
	Drawdown: ft.	Sta	tic water level: 60.0 ft.		
Grouting Information	Material:		De	epth: from to	
	Installation Method:		Ni	umber of bags used:	
Well Abandonment	Sealing material:		De	epth: from to	
	Installation Method:		Nı	umber of bags used:	
Administrative	County: LAWRENCE			Township: 6N Range:	
	Section: NW 1/4 of the N	W 1/4 of the NE	1/4 of Section 27		Topo map: OOLITIC
	Field located by: BARNE	S		on: Mon. Aug 01, 1960	)
	Courthouse location by:			on:	
	Location accepted w/o ve	rification by:		on:	
	Subdivision name:			Lot number:	
	Ft W of EL:	F	N of SL:	Ft E of WL: 2700	Ft S of NL: 200
	Ground elevation: 640.0	D	epth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting: 542707.0			UTM Northing: 43092	31.0
Well Log	Тор Во	ottom	Formation		
er .	0.0 33	3.0	CLAY		
	33 0 11	5.0	LS		

34

Reference Number	Driving directions	to well			Date completed
217352	PEERLESS				Mon, Jun 08, 1964
Owner-Contractor Well Owner	Name JOE HIGNITE		ddress EDFORD RR 4		Telephone
Building Contractor  Drilling Contractor	FLOYD STULTZ	ВЕ	EDFORD IND RR 4		
Equipment Operator	FLOYD STULTZ	Li	cense:		
Construction Details					
Well	Use:	Di	rilling method: CABLE TOOL	Pump type:	
	Depth: 240 0		mp setting depth:	Water quality	•
Casing Screen	Length: 23 0 Length:		aterial: aterial:	Diameter: Diameter: Slo	ot size:
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for 8 0 hrs Static water level: 80 0 ft	BailTest ro	ate: 0.05 gpm for 8 0 hrs.
Grouting Information	Material: Installation Method	<b>i</b> :	-	th: from to nber of bags used:	
Well Abandonment	Sealing material: Installation Method	<b>i</b> :		th: from to aber of bags used:	
Administrative	County: LAWRENG			Township: 6N Range:	
			he SE 1/4 of Section 27	. 14 . 4 . 01 100	Topo map: OOLITIO
	Field located by: IC			on: Mon, Aug 01, 196	0
	Courthouse location		· <b>L</b>	on:	
	Location accepted v	vio verijication	ı vy:	on:	
	Subdivision name:		E. N - E CL 1400	Lot number:	Et C of NI.
	Ft W of EL:	rac 0	Ft N of SL: 1400	Ft E of WL: 3600	Ft S of NL:
	Ground elevation: 5 UTM Easting: 5430		Depth to bedrock	Bedrock elevation: UTM Northing: 4308	Aquifier elevation:
		-		•	
Well Log	Тор	Bottom	Formation		
	0 0	00	CONFLICTING DA	ГА	
	0 0	23 0	CLAY		
	23 0	45 0	LS		
	45 0	20 0	SOAPSTONE		

Reference Number 217357	Driving directions to well	allian ballianian od stal til Grijardislam stad apadistals skole g		Date completed
21/35/	PEERLESS IND. APP. 3 MI N		Wed, Aug 12, 1964	
Owner-Contractor Well Owner	Name CHARLES CLEMENTS	Address BEDFORD IND. RR 4		Telephone
Building Contractor Drilling Contractor	ERNIE UMPHRESS & SONS	BEDFORD IND. RR 6		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOOL	Pump type:	
	Depth: 75.0	Pump setting depth:	Water quality	v.
Casing Screen	Length: Length:	Material: Material:	Diameter: Diameter: Slo	of size:
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs. Static water level: ft.	BailTest re	ate: gpm for hrs.
Grouting Information	Material: Installation Method:	Depth: from to  Number of bags used:		
Well Abandonment	Sealing material: Installation Method:	-	oth: from to mber of bags used:	
Administrative	County: LAWRENCE		Township: 6N Range:	- 1W
	Section: NW 1/4 of the NW 1/4	4 of the SE 1/4 of Section 27		Topo map: OOLITIC
	Field located by: JCH		on: Mon, Aug 01, 196	6
	Courthouse location by:		on:	
	Location accepted w/o verifica	tion by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL: 2000	Ft E of WL: 3250	Ft S of NL:
	Ground elevation: 520.0	Depth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting: 542892.0		UTM Northing: 43083	323.0
Well Log	Top Bottom	Formation		
	0.0	HOLE NO. 2		
	0.0 19 0	DIRT		
	19.0 22.0	GRAY LS HARD		
	22.0 75 u	BLUE SH SOFT		

Reference Number	Driving directions to	well				Date completed
5996	1 MI SE OF BEDFOR	1 MI SE OF BEDFORD CITY LIMITS ON I STREET				Fri, Mar 27, 1992
Owner-Contractor Well Owner	Name LEWIS DITTON		ddress R 15 BOX 10 BEDFORD IN	N 47421		<i>Telephone</i> 2194834875
Building Contractor  Drilling Contractor	REYNOLDS INC	P	O BOX 186 HWY 37 S ORL	EANS IN 474	152	8128653232
Equipment Operator	PAUL SHELTON	L	icense: 751			
Construction Details						
Well	Use:	D	rilling method: ROTARY		Pump type:	SUBMERSIBLE
	Depth: 345.0		ump setting depth: 340.0		Water quali	•
Casing Screen	Length: 21.0 Length:		laterial: S laterial:		Diameter: 6 Diameter: S	
Well Capacity Test	Type of test: AIR Drawdown: 345.0 ft.		Test rate: 2.0 gpm for Static water level: 100.		BailTest	rate: gpm for hrs.
Grouting Information	Material: CEMENT Installation Method: TREMIE		Depth: from 0.0 to 20.0  Number of bags used: 1.0			
Vell Abandonment	Sealing material: Installation Method:			Depth: from Number of b		
dministrative	County: LAWRENCE			Town	ıship: 5N Rang	
	Section: 1/4 of the 1/4	of the NW	1/4 of Section 25			Topo map: BEDFORD EAST
	Field located by:			on:		
	Courthouse location l	•	,	on:		
	Location accepted w/o	verificatio.	n by:	on:		
	Subdivision name:		E. M. GCI.		umber:	FAR - CAIL.
	Ft W of EL:		Ft N of SL:		of WL:	Ft S of NL:
	Ground elevation: UTM Easting:		Depth to bedrock:		ock elevation: Northing:	Aquifier elevation:
Vell Log	Тор	Bottom	Formation			
-	0.0	150	CLAY			
	15.0	75.0	LIMESTONE			
	75.0	155.0	WATER FORM	1ATION (LIM	IE)	
	155.0	345.0	LIMESTON			

#### Indiana Department of Natural Resources

Reference Number 217845

Driving directions to well

Date completed

SE FROM BEDFORD CITY LIMITS 2 MI ON 1 ST, TURN LEFT AT 1ST CROSSRDS., .75

MI ON LEFT; WELL IS BURIED 50' NW OF NW CORNER OF HOUSE (5' N OF

DRIVEWAY)

Fri, Feb 21, 1986

Owner-Contractor Well Owner

Name CALVIN (LUKE) LAWSON Address

**Building Contractor** 

JOHN REYNOLDS & SONS,

2517 I ST., BEDFORD, IN 47421

Telephone

**Drilling Contractor** 

INC.

PO BOX 230, 816 W. MAIN PAOLI, IN 47454

**Equipment Operator** 

PAUL SHELTON

License:

Construction Details

Well

Use: HOME Depth: 223 0 Drilling method: OTHER

Pump setting depth:

Pump type: Water quality:

Casing Screen

Length: 21.0 Length:

Material: Material:

Diameter: 6.62 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs.

BailTest rate: 6.0 gpm for 1.0 hrs.

Static water level: 75 0 ft.

Grouting Information

Well Abandonment

Material: Installation Method: Depth: from to Number of bags used:

Sealing material: Installation Method:

Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Township: 5N Range: 1W

Section: NE 1/4 of the NE 1/4 of the SE 1/4 of Section 25

Topo map: BEDFORD EAST on: Tue, May 23, 1989

Field located by: OH

Courthouse location by:

on:

Location accepted w/o verification by:

on: Lot number:

Subdivision name: Ft W of EL: 600

Ft N of SL: 2500

Ft E of WL:

Ft S of NL:

Ground elevation: 690 0

Depth to bedrock: 170

Bedrock elevation 6730

Aquifier elevation

UTM Easting: 546570 0

UTM Northing: 4298895 0

Well Log

Гор	Bottom	Formation
0.0	17.0	CLAY
17 0	140 0	LS
140 0	200.0	WATER FORMATION
200.0	210.0	LS
210.0	223.0	DARK SHALE

Comments

MC673 VERH TO BY NEIGHBOR



145.0

170 0

MC 645 A FRIFIED BY MANAGER:

# Indiana Department of Natural Resources

Record of Water Well

ŀ		indiana De	partment of Natural Resour	ces	
Reference Number	Driving directions to well		Lor-Johann LT HARAGOAP - Livi Hit DE LIMBA H ESP. T	MARTIN MERUNAMBER MINE TO ROOM A	Date completed
217850	CORNER STORE ON WA	ASHINGTO	ON AVE IN TOWN OF BEDF	ORD IN.	Thu, Sep 05, 1968
Owner-Contractor Well Owner	Name LENAD CORNER	<i>Addre</i> BEDF	ess FORD IN		Telephone
Building Contractor Drilling Contractor	ERNIE UMPHRESS & SC	ONS RR6.	BOX 13. BEDFORD IN		
Equipment Operator	CHARLES UMPHRESS	Licen			
Construction Details					
Well	Use:	Drilli	ng method: CABLE TOOL	Pump type:	
	Depth: 170.0	=	setting depth:	Water quality	
Casing Screen	Length: 37.5 Length:	Mater Mater		Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest r	ate: 0.81 gpm for 1.0 hrs.
	Drawdown: ft.		Static water level: 69.0 ft.		
Grouting Information	Material:		=	th: from to	
	Installation Method:		Nur	nber of bags used:	
Well Abandonment	Sealing material:		-	th: from to	
	Installation Method:		Nun	nber of bags used:	
Administrative	County: LAWRENCE	1/ 1/4 - E-b -	CW 144 of Cont. 22	Township: 5N Range	
	Section: NW 1/4 of the NV Field located by: PW	w 1/4 of the	SW 1/4 of Section 23	on: Mon, Aug 16, 197	Topo map: BEDFORD EAST
	Courthouse location by:			on:	•
	Location accepted w/o ver	ification by	<i>:</i>	on:	
	Subdivision name:			Lot number:	
	Ft W of EL:	F	t N of SL: 2050	Ft E of WL: 50	Ft S of NL:
	Ground elevation: 680.0	D	epth to bedrock: 34.0	Bedrock elevation: 646.0	Aquifier elevation:
	UTM Easting: 543580 0			UTM Northing: 4300	298 ()
Well Log	Тор Во	ttom	Formation	·	
	0.0 34.	0	DIRT		
	34.0 55	0	BLUE LS HARD		
	55 0 70	0	BRAY LS HARD		
	70 0 75	0	BR LS SOFT		
	75 () 95	0	WH LS HARD		
	95.0 130	).0	WH LS SOFT		
	130 0 145	5 0	BLUE LS HARD		

WH LS HARD

41

		anna Dopai anono di Ivata, ai 1	23041 (13				
Reference Number	Driving directions to well	Driving directions to well FROM BEDFORD TURN LEFT ON 450. APROX5 MI TURN LEFT BEX ADDITION					
217860	FROM BEDFORD TURN L						
Owner-Contractor	Name	Address		Telephone			
Well Owner	LAUELLA	RI BEDFORD		1 елернопе			
Building Contractor  Drilling Contractor	LOUIE O. SMITH	RI BEDFORD					
Equipment Operator	LOUIE O. SMITH	License:					
Construction Details							
Well	Use:	Drilling method:	Pump type:				
	Depth: 160.0	Pump setting depth:	Water qualit	y:			
Casing	Length: 42.0	Material: Material:	Diameter: 6.				
Screen	Length:	material:	Diameter: Si	ol size:			
Well Capacity Test	Type of test:	Test rate: gpm for hrs	. BailTest 1	rate: 5.0 gpm for 3.0 hrs.			
	Drawdown: ft.	Static water level: 110		<b>5.</b>			
Grouting Information	Material:		Depth: from to				
	Installation Method:		Number of bags used:				
Well Abandonment	Sealing material:		Depth: from to				
	Installation Method:		Number of bags used:				
Administrative	County: LAWRENCE		Township: 5N Range				
	Section: NE 1/4 of the SE 1/4	4 of the NE 1/4 of Section 21		Topo map: BEDFORD WEST			
	Field located by: PW		on: Tue, Aug 17, 197	1			
	Courthouse location by:		on:				
	Location accepted w/o verific	cation by:	on:				
	Subdivision name:		Lot number:				
	Ft W of EL: 1750	Ft N of SL:	Ft E of WL:	Ft S of NL: 1600			
	Ground elevation: 670.0	Depth to bedrock: 37.0	Bedrock elevation:	Aquifier elevation:			
	UTM Easting: 541457.0		UTM Northing: 4300	748.0			
Well Log	Top Botto	m Formation					
	0.0 37.0	CLAY					
	37.0 45.0	SOFT LIME					
	46.0	LIME					
	46.01 52.0	MED LIME					
	52.0 62.0	LIME					
	62.0	BROWN SHEL	i				
	(36.1) 75.0	LIME					
	80.0	KNOB STONE					
	\$1.0	LIME					
	160.0	BLUE					
Comments	Mers VERIFIED BY OWN	VER		T (110 T)			

#### **Indiana Department of Natural Resources**

Reference Numb	ber
217865	

Driving directions to well

Date completed

1.5 MI SW OF BEDFORD ON SR 158, WILLIAMS RD.

Thu, Sep 29, 1960

Owner-Contractor Well Owner

Name RAS W. COX Address

Telephone

**Building Contractor Drilling Contractor** 

BEDFORD IN, RRI

ERNIE UMPHRESS & SONS RR#6, BOX 13, BEDFORD IN

**Equipment Operator** ERNIE UMPHRESS & SONS License:

Construction Details

Well

Use: HOME Depth: 198.0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen

Length: 61.6 Length:

Material: Material:

Pump setting depth:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 148.0 ft. BailTest rate: 1.0 gpm for hrs.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the NE 1/4 of the SW 1/4 of Section 21

Township: 5N Range: 1W

on: Thu, Oct 02, 1969

Topo map: BEDFORD WEST

Field located by: HS

Courthouse location by:

on: on:

Location accepted w/o verification by: Subdivision name:

Lot number:

Ft W of EL:

Ft N of SL: 1400

Ft E of WL: 1500 Ft S of NL:

Ground elevation: 605.0 UTM Easting: 540810.0

Depth to bedrock:

Bedrock elevation: Aquifier elevation:

UTM Northing: 4300047.0

Well Log

Тор	Bottom	Formation
0.0	30.0	DIRT
30 0	58.0	BLUE LS & MUD HOLES
58 0	80.0	BLUE LS HARD
80.0	144.0	BR LS SOFT
144 ()	160.0	BLUE I.S HARD
160 0	173.0	GREY LS SOFT
173.0	198.0	BLUE LS HARD

Comments

CHEM TEST: FE, 0.3 PPM, HARDNESS 440 PPM, PH 7.5. CHLORIDE TO PPM:

THEREIN Department of Francial Resources

Reference Number	Driving directions to well	STANGER & MINISTER STT. BERTSH, WIT (SPENS SE B. )	Date completed
217870	APPROX 500' N FROM WIL	TY LINE. Mon, Jul 28, 1958	
Owner-Contractor Well Owner	<i>Name</i> LOREN E. HENDERSON	Address 233 N M RD, BEDFORD IN	Telephone
Building Contractor Drilling Contractor	FRNIF UMPHRESS & SONS	RR#6, BOX 13, BEDFORD IN	
Equipment Operator	BUAYRUS ERIE	License:	
Construction Details			
Well	Use: HOME	Drilling method: CABLE TOOL	Pump type:
	Depth: 151.0	Pump setting depth:	Water quality:
Casing Screen	Length: 35.75 Length:	Material: Material:	Diameter: 6.0 Diameter: Slot size:
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs.  Static water level: 96.0 ft.	BailTest rate: 1.0 gpm for 1.0 hrs.
	Drawaown: II.	State water tevel. 90.0 ft.	
Grouting Information	Material:	De	oth: from to
	Installation Method:	Nu	mber of bags used:
Well Abandonment	Sealing material:	· · · · · · · · · · · · · · · · · · ·	oth: from to
	Installation Method:	Nu	mber of bags used:
Administrative	County: LAWRENCE		Township: 5N Range: 1W
	Section: NW 1/4 of the SW 1/	4 of the SW 1/4 of Section 21	Topo map: BEDFORD WEST
	Field located by: BAINES		on: Fri, Jul 01, 1960
	Courthouse location by:		on:
	Location accepted w/o verifica	ation by:	on:
	Subdivision name:		Lot number:
	Ft W of EL:	Ft N of SL: 900	Ft E of WL: 400 Ft S of NL:
	Ground elevation: 630.0	Depth to bedrock:	Bedrock elevation: Aquifier elevation:
	UTM Easting: 540475.0		UTM Northing: 4299889.0
Well Log	Top Botton	n Formation	
	0.0 30.0	DIRT & FUNTRO	CK
	30.0 80.0	WH HARD LOTE	
	80.0 90.0	GRAY OR 10 1 F I	IME
	90.0 151.0	WHITARD ONE	

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

Telephone

217915

FROM BEDFORD GOING WEST ON 16TH TURN ON E450 GO APPROX 1 MI TO BLOCK Fri, Jan 10, 1964

BASEMENT ON RD SIDE OF ROAD

Owner-Contractor Well Owner **Building Contractor Drilling Contractor** 

Name **DWIGHT PROW** 

Address R1 BEDFORD

R! BEDFORD

**Equipment Operator** LOUIE O. SMITH

LOUIE O. SMITH

License:

Construction Details

Well

Use: HOME Depth: 175.0 Drilling method: CABLE TOOL

Pump type: Water quality: Pump setting depth:

Casing Screen Length: 42.0 Length:

Material: Material: Diameter: 6.25 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 115.0 ft. BailTest rate: 2.0 gpm for 2.0 hrs.

Topo map: BEDFORD WEST

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the SW 1/4 of the SW 1/4 of Section 21

Field located by: JVH on: Mon, Aug 01, 1966

Courthouse location by:

on:

Location accepted w/o verification by:

on:

Lot number:

UTM Northing:

Subdivision name: Ft W of EL:

Ft N of SL: Depth to bedrock: FIE of WL: Ft S of NL:

Township: 5N Range: 1W

Ground elevation: UTM Easting:

Bedrock elevation: Aquifier elevation:

Well Log

Тор	Bottom	Formation
0.0	35 0	CLAY
35.0	41 0	WHITE LIME
41.0	44 0	SHELL.
44.0	120 0	LIME
120.0	123.0	BLANK
123 0	125.0	SOFT SHELL
125.0	175.0	HARD LIME

Reference Number	Driving directions to well			Date completed	
217949	RIVER BLUFF ADDT ABOU	ON RIVER BLUFF RD.	Sat, Aug 01, 1959		
Owner-Contractor Well Owner Building Contractor	Name ROBERT D. BRUCE	Address RR1, BEDFORD IN	:	Telephone	
Drilling Contractor	ERNIE UMPHRESS & SONS	RR6, BOX 13, BEDFORD IN			
Equipment Operator	BUAYRUS ERIE	License:			
Construction Details					
Well	Use: HOME	Drilling method: CABLE TOO	OL Pump type:		
	Depth: 175.0	Pump setting depth:	Water quality:		
Casing Screen	Length: Length:	Material: Material:	Diameter: 6.0 Diameter: Slot s	ize:	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.		1.0 gpm for 1.0 hrs.	
	Drawdown: ft.	Static water level: 105.	.0 ft.		
Grouting Information	Material:		Depth: from to	Depth: from to	
	Installation Method:		Number of bags used:		
Well Abandonment	Sealing material:		Depth: from to		
	Installation Method:		Number of bags used:	,	
Administrative	County: LAWRENCE		Township: 5N Range: 11	×	
	Section: SE 1/4 of the SW 1/4	of the SW 1/4 of Section 27	To	po map: BEDFORD WEST	
	Field located by: HS		on: Fri, Nov 04, 1960		
	Courthouse location by:		on:		
	Location accepted w/o verifica	ution by:	on:		
	Subdivision name:		Lot number:		
	Ft W of EL:	Ft N of SL: 150	Ft E of WL: 700 Ft.	S of NL:	
	Ground elevation: 580.0	Depth to bedrock:	Bedrock elevation: Aqu	uifier elevation:	
	UTM Easting: 542206.0		UTM Northing: 4298072	.0	
Well Log	Top Botton	n Formation			
Ü	0.0 145 0	BLANK			
	145.0 175.0	BLUE SHALE			
Comments	MC: SULPHER WATER:				

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

217954

S OUT OF BEDFORD ON WASHINGTON AVE TO RIVER BLUFFS RD. W APP .25 MI, S

SIDE OF RIVER BLUFF RD.

Wed, Apr 06, 1966

Telephone

Owner-Contractor Well Owner

Name LARRY EVANS BLDR

**Building Contractor Drilling Contractor** 

ERNIE UMPHRESS & SONS RR6, BOX 13, BEDFORD IN

**EUGENE & CHARLES Equipment Operator UMPHRESS** 

License:

Address

Construction Details

Well

Use: HOME

Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen Depth: 190.0 Length: Length:

Pump setting depth: Material: Material:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test:

Test rate: gpm for hrs.

BailTest rate: 0.5 gpm for hrs.

Drawdown: ft.

Static water level: 40.0 ft.

Grouting Information

Material:

Depth: from to

Installation Method:

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the SE 1/4 of the SW 1/4 of Section 27

Township: 5N Range: 1W

Topo map: BEDFORD

on: Tue, Aug 17, 1971

Field located by: PW

Courthouse location by: JCH

on: Mon, Aug 01, 1966 on:

Location accepted w/o verification by:

Lot number: Ft E of WL: 2400

Ft S of NL:

Ft W of EL: Ground elevation: 630 0

Subdivision name:

Ft N of SL: 900 Depth to bedrock: 14.0

Bedrock elevation: 6160

Aquifier elevation:

UTM Easting: 542712.0

UTM Northing: 4298304 0

Well Log

Top	Bottom	Formation
0.0	60	DIRT
60	140	BOULDERS & HOLES
}4 O	32 0	BLUE LS HARD
321)	40.0	BLUE LS SOFT
4000	56 0	GRAY LS SOFT
5611	62.0	WH LS SOFT
62 (	98 0	GRAY LS SOFT
98.1	1150	WH LS HARD
11	137 0	BLUE LS HARD
, .	1540	GRAY LS HARD
	165 0	BLUE LS HARD
1 ~	171 0	WH LS HARD
	184 0	BLUE SHALE SOFT

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# 4-

	A f	nana Department of Natural Ke	sources	
Reference Number	Driving directions to well	r yyddiffen t hebl effil war dalab afb heb hebl	- NA TERMINISTRA IN COMPANY	Date completed
217959	3 MI SE OF BEDFORD, 300	) N OF POOR FARM RD, 6' E OI	F BARN	Wed, Oct 30, 1963
Owner-Contractor	Name	Address		Telephone
Well Owner Building Contractor Drilling Contractor	JOE WELLS  ERNIE UMPHRESS & SON	R5 BEDFORD, IN S RR6 BEDFORD, IN		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOO		
	Depth: 91.0	Pump setting depth:	Water quality	
Casing Screen	Length: 23.0 Length:	Material: Material:	Diameter: 6. Diameter: Sl	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.		ate: 3.0 gpm for hrs.
	Drawdown: ft.	Static water level: 61 0	) ft.	
Grouting Information	Material:		Depth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range	:: 1W
	Section: SW 1/4 of the SE 1/-	4 of the SE 1/4 of Section 25		Topo map: BEDFORD EAS
	Field located by: JVH		on: Mon, Aug 01, 19	
	Courthouse location by:		on:	
	Location accepted w/o verifice Subdivision name:	cation by:	on: Lot number:	
	Ft W of EL: 1000	Ft N of SL: 150	Ft E of WL:	Ft S of NL:
	Ground elevation: 680.0	Depth to bedrock: 15 0	Bedrock elevation:	Aquifier elevation:
	UTM Easting: 546459 0	•	665 0 UTM Northing: 4298	• •
Well Log	Top Botto	m Formation		
TER LUE	0 0 5.0	DIRT		
	50 170		& BOULDERS LIME	
	170 410	RULETZHAR		

Well Log	Тор	Bottom	Formation
	0 0	5.0	DIRT
	5 0	17 0	BRKN STONE & BOULDERS LIME
	17.0	41 0	BLUETNHARD
	41 0	77.0	GREY LS SOFT
	77 0	91.0	BROWN LS SOFT
Comments	MC665	NO ANY DESIGNATION SERVICES AND THE	The second secon

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# Record of Water Well

# Indiana Department of Natural Resources

Reference Number	Driving directions to w	ell			Date completed
235518		FORD, IN TURN E ON 5TH STREET TO L ST. TURN S ON L ST. GO 0.5MI STATION ON W/SIDE OF STREET		<sup>11</sup> Wed, Jan 08, 1992	
Owner-Contractor Well Owner Building Contractor	<i>Name</i> JOHNSON OIL		ddress O BOX 347 COLUMBUS, IN 4	7202	Telephone (812)379-9227
Drilling Contractor	AMERICAN ENV	87	65 GUION RD SUITE G 46268	}	(317)871-4090
Equipment Operator	RON MATHES	Li	cense: 294		
Construction Details					
Well	Use: TEST	Di	rilling method: OTHER	Pump type:	
	Depth: 15.5	Pu	imp setting depth:	Water quality	v: CLOUDY
Casing Screen	Length: 50.0 Length: 10.0		aterial: PVC aterial: PVC	Diameter: 4.0 Diameter: 4.0	0 0 <i>Slot size:</i> .010
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest n	ate: gpm for hrs.
	Drawdown: ft.		Static water level: ft.		
Grouting Information	Material: BENTONITE	:		epth: from 0.0 to 1.0	
	Installation Method:		Nı	imber of bags used:	
Well Abandonment	Sealing material:			epth: from to	
	Installation Method:		N	umber of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range	
	Section: 1/4 of the 1/4 of Field located by:	or the 1/4 o	r Section 23	on:	Topo map: BEDFORD EAS
	Courthouse location by	<b>:</b>		on:	
	Location accepted w/o		ı by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL:		Ft N of SL:	Ft E of WL:	Ft S of NL:
	Ground elevation:		Depth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting:			UTM Northing:	
Well Log	Тор	Bottom	Formation		
-	0.0	12.0	CONCRETE		
	1.0	6.0	CRUSHED STON	E. WET SAND	
	6.0	15.5	RED MOIST CLA	•	

Comments

#### **Indiana Department of Natural Resources**

Reference Number	
273065	

Driving directions to well

Date completed

Telephone

- --- - -- -

FROM WILLIAMS GOING E ON 450.5 MI W OF CREEK BRIDGE. LANE ON RD SIDE OF Fri, Apr 10, 1964

RD; BACK ACRES BROCK & SONS

Owner-Contractor Well Owner

**Building Contractor Drilling Contractor Equipment Operator**  Name

MERTON BROCK

Address RI BEDFORD

R1 BEDFORD LOUIE O. SMITH LOUIE O. SMITH License:

**Construction Details** 

Well

Casing

Screen

Use: HOME Depth: 125.0 Length: 14.0 Length:

Drilling method: CABLE TOOL

Pump setting depth:

Material: Material: Pump type:

Water quality: Diameter: 6.25 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft.

Test rate: gpm for hrs. Static water level: 85.0 ft. BailTest rate: 3 0 gpm for 3 0 hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material:

Installation Method:

Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Field located by: JVH

Section: NW 1/4 of the SW 1/4 of the NW 1/4 of Section 27

on: Mon, Aug 01, 1966

on: Mon, Aug 01, 1966

Township: 5N Range: 1W

Courthouse location by: JVH

Location accepted w/o verification by:

Subdivision name: Ft W of EL:

Ft N of SL:

Lot number: Ft E of WL: 250

on:

Ft S of NL: 1800

Topo map: BEDFORD

Ground elevation: 650 0

Depth to bedrock: 10.0

Bedrock elevation: 6400

Aquifier elevation

UTM Easting: 542024 0

UTM Northing: 4299103 0

Well Log

Тор	Bottom	Formation	
0 0	12.0	CLAY	
120	28 0	LIME	
28 0	30.0	BROWN LIME	
30 0	33.0	HARD LIME	
33 0	15 ()	WHITE I IME	
45 0	50 ()	SOFFLIME	
50.0	~> ()	LIME	
75 0	92.0	SHELL	
92 0	96 0	LIME	
106 0	1580	BLUE SHELL	

# 50

Reference Number	Driving directions to well			Date completed	
336969	1507 18TH ST, BEDFOR	D, IN		Thu, Jul 29, 1999	
Owner-Contractor Well Owner Building Contractor	<i>Name</i> DANIEL L. HALL	Address 1318 16TH ST., BEDFOR	D, IN 47421	Telephone (812)279-8101	
Orilling Contractor	PHILLIPS WELL DRLNO PUMP SVC	RR12 BOX 444, BEDFOR	D, IN 47421	(812)279-4843	
Equipment Operator	LLOYD PHILLIPS	License: 208			
Construction Details					
Vell	Use: HOME	Drilling method: ROTAR	Y Pump type	: SUBMERSIBLE	
	Depth: 200.0	Pump setting depth: 185.0	Water qua	lity: CLEAR GOOD	
asing creen	Length: 36.0 Length: 40.0	Material: PVC Material: PVC	Diameter: Diameter:	6.0 4.0 <i>Slot size:</i> 1.25	
Vell Capacity Test	Type of test: BAILING Drawdown: ft.	Test rate: 11.0 gpm Static water level:		t rate: gpm for hrs.	
routing Information	Material: BENONITE Installation Method: PUN	1P	Depth: from 0.0 to 36.0  Number of bags used: 3.5		
ell Abandonment	Sealing material: Installation Method:		Depth: from to Number of bags used:		
dministrative	County: LAWRENCE		Township: 5N Ran	ge: IW	
	Section: 1/4 of the SE 1/4	of the NE 1/4 of Section 23		Topo map: BEDFORD EAST	
	Field located by:		on:		
	Courthouse location by:		on:		
	Location accepted w/o ver	ification by:	on:		
	Subdivision name:	Pa N affi.	Lot number:	E. C. ANI	
	Ft W of EL: Ground elevation:	Ft N of SL: Depth to bedrock:	Ft E of WL: Bedrock elevation:	Ft S of NL: Aquifier elevation:	
	UTM Easting:	Depin to bearock.	UTM Northing:	Aquigier etevation:	
'ell Log	Lop Bo	ttom Formation			
	0.0	TOPSOIL			
	2.0 6.0	CLAY			
	6.0 12	0 SHALE			
	1.0	0.0 LS			
	. 90 20	0 WHITE LS			
omments	SEE MAP				



#### Indiana Department of Natural Resources

Reference	Numbe
22224	Δ

Driving directions to well

Date completed

220949

NW BEDFORD IN, .5 MI ON LANE KNOWN AS BILL BARK QUARY N OF GRAVEY

LANE. THE 3RD HOUSE ON L SIDE OF BILL BARK LANE.

Mon, Mar 27, 1961

Owner-Contractor

Well Owner Building Contractor Name WINFRED WEVER Address

503 ST, BEDFORD IN

Telephone

Drilling Contractor Equipment Operator

ERNIE UMPHRESS & SONS BEDFORD IN, R6 ERNIE UMPHRESS & SONS License:

Construction Details

Well

Use: HOME Depth: 123.0 Drilling method: CABLE TOOL Pump setting depth:

Pump type:
Water quality:
Diameter: 6 0

Casing Screen Length: 29.25 Length:

Material: Material: Diameter: 60 Diameter: Slot size:

Well Capacity Test

Type of test:
Drawdown: ft.

Test rate: gpm for hrs.

Static water level: 60.0 ft.

BailTest rate: 0.05 gpm for hrs

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to
Number of bags used:

on:

Administrative

County: LAWRENCE

Section: SE 1/4 of the SE 1/4 of the NE 1/4 of Section 16

Township: 5N Range: IW

Topo map: BEDFORD

on: Mon, Aug 01, 1966

Field located by: JCH

Courthouse location by:

Courthouse location by:

Location accepted w/o verification by:

: on:

Lot number:

Ft W of EL:

MC 555.

Subdivision name:

Ft N of SL:

Ft E of WL

Ft S of NL:

Ground elevation: 6100

Depth to bedrock: 25 0

Bedrock elevation:

Aquifier elevation:

UTM Easting: 541896 0

585 0 A4 UTM Northing 4302187 0

Well Log

Comments

Тор	Bottom	Formation	
0.0	28 0	DIRT	
28 0	35.0	BLUE LS HARD	
35.0	55.0	BLUE LS SOFT	
55.0	61 0	BR LS SOFT	
61 ()	123 0	WH LS SOFT	



# 53

Reference Number	Driving directions to well				Date completed
220926	E OOLITIC, RR4.				Mon, May 01, 1961
Owner-Contractor Well Owner	Name FELIX CHENAULT JR	Addr E OC	ess DLITIC, RR4		Telephone
Building Contractor					
Drilling Contractor	FLOYD STULTZ		FORD IN, RR4		
Equipment Operator	FLOYD STULTZ	Licen	ise:		
Construction Details					
Vell	Use: HOME	Drilli	ing method: CABLE TOOL	Pump type:	
	Depth: 88 0	Pump	setting depth:	Water quality.	•
Casing Screen	Length: 140 Length:	Mate Mate		Diameter: 6.0 Diameter: Slo	•
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs.  Static water level: 30 0 ft.		te: 2.0 gpm for 8.0 hrs.
	Drawadwa. II.		State Water Baren. 30 0 ft.		
Grouting Information				epth: from to	
	Installation Method:		Ni	umber of bags used:	
Vell Abandonment	Sealing material:		De	epth: from to	
	Installation Method:		Nı	umber of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range:	ıw
	Section: NW 1/4 of the SE	1/4 of the	NW 1/4 of Section 3		Topo map: OOLITIC
	Field located by: U			on: Thu, Aug 01, 1963	
	Courthouse location by:			on:	
	Location accepted w/o ver	ification by	<i>ı</i> :	on:	
	Subdivision name:			Lot number:	
	Ft W of EL:	F	i N of SL.	Ft E of WL: 1700	Ft S of NL: 1900
	Ground elevation:	E.	Pepth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting: 542461.0			UTM Northing: 43055	21 0
Vell Log	Тор Во	ttom	Formation		
ren ung	00 14		( LAY		
	14 0 50		LS		
	50 0 84	٥	SHALF		

Reference Number 220936	Driving directions to we	u			Date completed
220730	E OOLITIC, LOT 65.				Mon, Jun 15, 1964
Owner-Contractor Well Owner Building Contractor	Name DENNY MAY	Address BEDFOR	D, RR4		Telephone
Drilling Contractor	FLOYD STULTZ	BEDFOR	D IN, RR4		
Equipment Operator	FLOYD STULTZ	License:			
Construction Details					
Well	Use:	Drilling i	nethod: CABLE TOOL	. Pump t	ype:
	Depth: 85.0	Pump set	ting depth:	Water q	quality:
Casing Screen	Length: Length:	Material: Material:		Diamet Diamet	er: er: Slot size:
Screen	Lengin.	1744671411		Diamen	er. own sec.
Well Capacity Test	Type of test: PUMPING	T	est rate: 1.0 gpm for 8	0 hrs. Bail	Test rate: gpm for hrs.
• • • • • • • • •	Drawdown: ft.		tatic water level: 30.0		<b>51</b>
Grouting Information	Material:		1	Depth: from to	
	Installation Method:		i	Number of bags used:	
Well Abandonment	Sealing material:			Depth: from to	
	Installation Method:		l	Number of bags used:	
Administrative	County: LAWRENCE			Township: 5N I	=
	Section: 1/4 of the 1/4 of	the 1/4 of Section	n 3		Topo map: OOLITIC
	Field located by:			on:	
	Courthouse location by:			on:	
	Location accepted w/o ve	rification by:		on:	
	Subdivision name:			Lot number:	
	Ft W of EL:	Ft N	of SL:	Ft E of WL:	Ft S of NL:
	Ground elevation:	Dept	h to bedrock:	Bedrock elevati	on: Aquifier elevation:
	UTM Easting:			UTM Northing:	•
Well Log	Тор В	ottom	Formation		
	00 13	3.0	CLAY		
	13.0 45	5.0	SANDYIS		
	45.0 85	5.0	SOAPS (053		

55

#### **Indiana Department of Natural Resources**

Reference Number Date completed Driving directions to well 220941 E OOLTIC IN, LOT 31. Thu, Jul 25, 1963 Owner-Contractor Address Name Telephone Well Owner LARRY RANDOLPH BEDFORD IN, RR2 **Building Contractor Drilling Contractor** ERNIE UMPHRESS & SONS BEDFORD IN, RR6 **EUGENE & CHARLES Equipment Operator** License: **UMPHRESS** Construction Details Well Use: HOME Drilling method: CABLE TOOL Pump type: Depth: 127.0 Pump setting depth: Water quality: Material: Casing Length: 14.0 Diameter: 6.0 Material: Diameter: Slot size: Screen Length: Well Capacity Test Type of test: Test rate: gpm for hrs. BailTest rate: 5.0 gpm for hrs. Drawdown: ft. Static water level: 40.0 ft. Material: **Grouting Information** Depth: from to Installation Method: Number of bags used: Well Abandonment Sealing material: Depth: from to Installation Method: Number of bags used: Administrative County: LAWRENCE Township: 5N Range: 1W Section: 1/4 of the 1/4 of the 1/4 of Section 3 Topo map: OOLITIC Field located by: on: Courthouse location by: on: Location accepted w/o verification by: on: Subdivision name: Lot number: Ft W of EL: Ft N of SL: Ft E of WL: Ft S of NL: Ground elevation: Depth to bedrock: Bedrock elevation: Aquifier elevation: UTM Easting: UTM Northing: Well Log Тор Bottom **Formation** 0.0 DIRT 10.0 10.0 31.0 **GRAY LS SOFT** 31.0 40.0 **BLUE LS HARD** 

**BLUE SHALE SOFT** 

46.0

Comments

127.0



# Indiana Department of Natural Resources

Reference Number	Driving directions to w	vell			Date completed	
220956	TOWN OF EAST OOL	.ITIC, LOT #	722		Wed, Sep 27, 1961	
Owner-Contractor Well Owner	<i>Name</i> VOLLIE STAGGS		lress ST OOLITIC, IN.		Telephone	
Building Contractor						
Drilling Contractor			r. 6, BOX 13, BEDFORD, IN.			
Equipment Operator	ERNIE UMPHRESS &	SONS Lice	ense:			
Construction Details						
Well	Use: HOME	Dril	ling method: CABLE TOOL	Pump type:		
	Depth: 101.0	Pun	ip setting depth:	Water quality	:	
Casing Screen	Length: 27.0 Length:		erial: erial:	Diameter: 6.0 Diameter: Slo		
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest ro	ate: 6.0 gpm for 1 0 hrs.	
	Drawdown: ft.		Static water level: 71.0 ft.			
Grouting Information	Material:		Dep	oth: from to		
	Installation Method:		Nui	mber of bags used:		
Well Abandonment	Sealing material:		Dep	oth: from to		
	Installation Method:		Nus	mber of bags used:		
Administrative	County: LAWRENCE			Township: 5N Range	: 1W	
	Section: NW 1/4 of the SW 1/4 of the NW 1/4 of Section 3			Topo map: OOLITIC		
	Field located by: U			on: Mon, Jul 01, 1963	1	
	Courthouse location by	:	•	on:		
	Location accepted w/o	verification b	by:	on:		
	Subdivision name:			Lot number:		
	Ft W of EL:		Ft N of SL:	Ft E of WL: 50	Ft S of NL: 1900	
	Ground elevation: 540	0	Depth to bedrock:	Bedrock elevation:	Aquifier elevation	
	UTM Easting: 541955 (	)		UTM Northing: 4305	5160	
Well Log	Гор	Bottom	Formation			
		25 0	DIRT			
	8 0		D.,			
		30.0	RILIGICALADO			
	25.0	30 0 36 0	BLUE LS-HARD BLUE SH-SOFT			

BLUE SH-SOFT

74.0

Comments

101.0

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Comments

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#### **Indiana Department of Natural Resources**

Reference Number	Driving directions to	well		E MINIS NE MINISCHAR DE MUT MINE E E	Date completed
220921	E OOLITIC RD.				Sat, May 07, 1960
Owner-Contractor Well Owner	<i>Name</i> IRA CHENAULT		iress OLITIC RD		Telephone
<b>Building Contractor</b>					
Drilling Contractor	FLOYD STULTZ		DFORD IN, RR4		
Equipment Operator	FLOYD STULTZ	Lic	ense:		
Construction Details					
Well	Use: HOME		lling method: CABLE TOOL	Pump type:	
	Depth: 60.0		np setting depth:	Water quality	
Casing Screen	Length: 12.0 Length:		terial: terial:	Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest re	ute: 1.3 gpm for 8.0 hrs.
	Drawdown: ft.		Static water level: 30.0 ft.		
Grouting Information	Material:		De	pth: from to	
	Installation Method:		Nu	mber of bags used:	
Well Abandonment	Sealing material:		· ·	pth: from to	
	Installation Method:		Nu	mber of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range:	ıw
	Section: SW 1/4 of the	SW 1/4 of th	e NW 1/4 of Section 3		Topo map: OOLITIC
	Field located by: BRII	VES		on: Mon. Aug 01, 196	0
	Courthouse location b	y:		on:	
	Location accepted w/o	verification :	by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL:		Ft N of SL: 2600	Ft E of WL: 400	Ft S of NL:
	Ground elevation: 520	0.0	Depth to bedrock:	Bedrock elevation:	Aquifier elevation:
·	UTM Easting: 542070	0.0	-	UTM Northing: 43053	
	Top	Bottom	Formation		
Well Log	Top 0.0				
	· -	12.0	CLAY		
	120	60.0	LS		

MC 510;

5

Reference Number	Driving directions to we	ell .			Date completed
221531	5MI SE OF BEDFORD ON POOR FARM RD				Sat, Apr 06, 1963
Owner-Contractor Well Owner	<i>Name</i> RUSSELL CROUCHER		Address CEMENT PLANT RD		Telephone
Building Contractor Drilling Contractor	FLOYD STULTZ	E	BEDFORD IND. R.R. 4		
Equipment Operator	FLOYD STULTZ	_	icense:		
Construction Details					
Well	Use: HOME	L.	orilling method: CABLE TO	OL Pump typ	e:
	Depth: 80.0	P	ump setting depth:	Water qu	ality:
Casing Screen	Length: 18.0 Length:		Iaterial: Iaterial:	Diameter Diameter	: 6.0 : Slot size:
Well Capacity Test	Type of test:		Test rate: gpm for hrs.		est rate: 80.0 gpm for 8.0 hrs.
	Drawdown: ft.		Static water level: 40.0	O ft.	
Grouting Information	Material:			Depth: from to	
	Installation Method:			Number of bags used:	
Well Abandonment	Sealing material:			Depth: from to	
	Installation Method:			Number of bags used:	
Administrative	County: LAWRENCE			Township: 5N Ra	<del>-</del>
	Section: SE 1/4 of the SV	V 1/4 of	the SE 1/4 of Section 30		Topo map: BEDFORD EAS
	Field located by: HUH			on: Mon. Aug 01,	, 1966
	Courthouse location by:			on:	
	Location accepted w/o ve	rificatio	n by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL: 2800		Ft N of SL: 500	Ft E of WL:	Ft S of NL:
	Ground elevation: 700.0		Depth to bedrock: 20.0	Bedrock elevation 680.0	n: Aquifier elevation:
	UTM Easting: 547791.0			UTM Northing: 4	298253.0
Well Log	Тор В	ottom	Formation		
r	0.0	8.0	CLAY		
	18.0	0.0	HARDLS		

58

Reference Number	Driving directions to well	and the second of the second o	ers killingken for Sign. affordagskilders amendern. villabelikelike giv t	Date completed
221536	APPR. 2.5MI SE OF BEDFOR	RD IND ON POOR FARM RD		Tue, May 17, 1966
Owner-Contractor Well Owner Building Contractor	Name WILLIAM C. TARR ERNIE UMPHRESS & SONS	Address BEDFORD IND. R.R. 5		Telephone
Drilling Contractor Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOOL	Pump type:	
	Depth: 107.0	Pump setting depth:	Water quality:	•
Casing Screen	Length: 33.5 Length:	Material: Material:	Diameter: 6.0 Diameter: Slo	t size:
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs.  Static water level: 30.0 ft.	BailTest ra	te: 8.0 gpm for hrs.
Grouting Information	Material: Installation Method:		pth: from to umber of bags used:	
Well Abandonment	Sealing material: Installation Method:		pth: from to umber of bags used:	
Administrative	County: LAWRENCE Section: SW 1/4 of the SW 1/4 of Section 30		Township: 5N Range:	1E Topo map: BEDFORD EAST
	Field located by: PW		on:	
	Courthouse location by:		on:	
	Location accepted w/o verifica	tion by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL: 100	Ft E of WL: 1050	Ft S of NL:
	Ground elevation: 700.0	Depth to bedrock: 27 0	Bedrock elevation: 673.0	Aquifier elevation:
	UTM Easting: 547073.0		UTM Northing: 42981	67 0
Well Log	Top Bottom	Formation		
	0.0 27 0	DIRT.		
	27 0 65 0	BR LS SOFT		
	65.0 92.0	GRAY LS SOFT		
	92.0 107.0	BLUF LS HARD		
Comments	MC675: VERIFIED BY OWNE	R MC	Michigan of a second with the second second second	** I'm regions in equal-tops to be surject. I was

59

Reference Number	Driving directions to well	y is pine. 1866-9- pasteronis is a standardisc in 1980-86. And	ruga dha i idhina talana a'ra idhin	Date completed
217994	APP 3 5MI E OF BEDFORD IND ON S LEATHERWOOD RD S/SIDE OF RD			Thu, Jul 11, 1963
Owner-Contractor Well Owner Building Contractor Drilling Contractor Equipment Operator	Name CLAUDE E. CADE ERNIE UMPHRESS & SON EUGENE & CHARLES	Address R R. #6, BEDFORD, IND. S BEDFORD, IND R.R 6 License		Telephone
,	UMPHRESS			
Construction Details			_	
Well	Use: HOME	Drilling method: CABLE TOO	* :-	
Casing Screen	Depth: 154 0 Length: 27.0 Length:	Pump setting depth: Material: Material:	Water qualit Diameter: 6 Diameter: Sl	0
Well Capacity Test	Type of test: Drawdown: ft	Test rate: gpm for hrs. Static water level: 40.0		rate: 1 0 gpm for hrs
Grouting Information	Material: Installation Method:		Depth: from to Number of bags used:	
Well Abandonment	·		Depth: from to Number of bags used:	
Administrative	County: LAWRENCE Section: NE 1/4 of the NW 1/4 of the SE 1/4 of Section 20		Township: 5N Range	:: 1E Topo map: BEDFORD EAST
	Field located by: JCH		on: Mon, Aug 01, 19	66
	Courthouse location by:		on:	
	Location accepted w/o verific	cation by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL: 1600	Ft N of SL: 2400	Ft E of WL:	Ft S of NL:
	Ground elevation. 720 0	Depth to bedrock: 20 0	Bedrock elevation:	Aquifier elevation
	UTM Easting: 549688 0		700 0 UTM Northing: 4300	• •
Well Log	Тор Воно	m Formation		
wen bog	00 80	DIRT	<del>, , </del>	
	80 220	BOULDERS		
	22 0 56 0	BI UE LS HARI	)	
	56 0 67 0	GRAY LS HAR		
	67 0 74 0	WH LS SOFT		
	74 0 97 0	GR \Y LS SOFT		
	97.0 136.0			
	136.0 154.0		)	
Comments	MC700.			



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Reference Number	* Driving directions to well	midge descriptions and debts from bearing to be bearing the second of th	Date completed	nutration (
217999	APPR. 2MI S, E OF BEDFOR	D, IND. ON S LEATHER WOOD R	•	
Owner-Contractor Well Own Contractor	<i>Name</i> ROBERT & MARIE FOX	Address BEDFORD, IND. R.R.6	Telephone	
Building Contractor Drilling Contractor	ERNIE UMPHRESS & SONS EUGENE & CHARLES			
Equipment Operator	UMPHRESS	License:		
Construction Details				
Well	Use: STOCK	Drilling method: CABLE TOOL	Pump type:	
	Depth: 38.0	Pump setting depth:	Water quality:	
Casing Screen	Length: 7.83 Length:	Material: Material:	Diameter: 6.0 Diameter: Slot size:	
, creen			Signatur. Star sign	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest rate: 7.0 gpm for hrs.	
	Drawdown: ft.	Static water level: 8.0 ft.		
Grouting Information	Material:	Dej	th: from to	
	Installation Method:	Nu	nber of bags used:	
Well Abandonment	•		th: from to	
	Installation Method:	144	nber of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range: 1E	
	Section: NW 1/4 of the NW 1/4	of the SW 1/4 of Section 20	Topo map: BEDFOR	D EAST
	Field located by: JCH		on: Mon, Aug 01, 1966	
	Courthouse location by: Location accepted w/o verifica	tion by	on: on:	
	Subdivision name:	aon by.	Lot number:	
	Ft W of EL:	Ft N of SL: 2500	Ft E of WL: 700 Ft S of NL:	
	Ground elevation: 640 0	Depth to bedrock: 5.0	Bedrock elevation: Aquifier elevation:	
	UTM Easting 548770 0		UTM Northing 4300465 0	
Well Log	Γορ <b>Bottom</b>	Formation		
TER LOG	00 25	DIRT		
	2.5 18.0	BLUE LS HARD		
	18.0 25.0	GRAY LS HARD		
	25 0 29 0	BR LS SOFT		
	29.0 38.0	GRAY LS HARD		



Reference Number	Driving directions to well			Date completed
218004	3-1/2 MILES SOUTHEAST	OF BEDFORD ON SOUTH LEAT	Fn, Aug 28, 1959	
Owner-Contractor Well Owner	<i>Name</i> LOVELL & MARY PIERCE	Address RR 6, BEDFORD IN		Telephone
Building Contractor Drilling Contractor	ERNIE UMPHRESS & SONS	RR 6, BOX 13, BEDFORD IN		
Equipment Operator	EUGENE UMPHRESS	License:		
Construction Details				
Well	Use: STOCK	Drilling method: CABLE TOOL	_ Pump type:	
	Depth: 141.0	Pump setting depth:	Water qualit	y:
Casing Screen	Length: 26.92 Length:	Material: Material:	Diameter: 6. Diameter: Sl	0
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest r	rate: 1.6 gpm for 1.0 hrs.
	Drawdown: 85.0 ft.	Static water level: 56.0 t	ft.	
Grouting Information	Material:		Depth: from to	
	Installation Method:	1	Number of bags used:	
Well Abandonment	Sealing material:	l	Depth: from to	
	Installation Method:	I	Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range	:: IE
	Section: SW 1/4 of the SW 1/	4 of the NE 1/4 of Section 20		Topo map: BEDFORD EAS
	Field located by: BARNES		on: Fri, Jul 01, 1960	
	Courthouse location by:		on:	
	Location accepted w/o verific	ation by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL: 2000	Ft N of SL: 2700	Ft E of WL:	Ft S of NL:
	Ground elevation: 750 0	Depth to bedrock: 24.0	<b>Bedrock elevation:</b> 726 0	Aquifier elevation:
	UTM Easting: 549570 0		UTM Northing: 4300	9530 0
Well Log	Top Bottor	n Formation		
	0.0 0 0	BLANK		
	MOTES ANAMED NOT HOME	_		

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# Record of Water Well

Reference Number	Driving directions to well	i upinamini in <del>kaling appaga 6 25 tilik</del> er de 43 tiliki ide 44 tili	e ymphagair abure a er er u ga erann beddelanda	Date completed
218009	LOT 5A E OF BEDFORD,	IND. BROOK KNOLL ADD.		Thu, Sep 30, 1965
Owner-Contractor Well Owner	<i>Name</i> JOHN W. REUTER	Address BEDFORD, IND.		Telephone
Building Contractor  Drilling Contractor	ERNIE UMPHRESS & SO	NS BEDFORD, IND. R.R.6		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE 1		
	Depth: 150.0	Pump setting depth:	Water qualit Diameter: 6.	=
Casing Screen	Length: 17.5 Length:	Material: Material:	Diameter: Si	
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for b		rate: 0.75 gpm for hrs.
	2.22	2		
Grouting Information	Material:		Depth: from to	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material: De		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range	e: 1E
	Section: NW 1/4 of the NE	1/4 of the SW 1/4 of Section 19		Topo map: BEDFORD EAS
	Field located by: JUH		on: Mon, Aug 01, 19	66
	Courthouse location by:		on:	
	Location accepted w/o verij	fication by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL:	Ft E of WL: 1600	Ft S of NL: 2600
	Ground elevation: 580.0	Depth to bedrock: 50	Bedrock elevation: 575.0	Aquifier elevation:
	UTM Easting: 547245.0		UTM Northing: 4300	0514.0
Well Log	Top . Bott	tom Formation		
	0.0 6.0	DIRT		
	6.0 10.0	GRAY LS S	OFI	
	10.0 42.0	GRAYISE	ARD	
	42.0 70.0	BLUEINE	(RD	
	70.0 89.0	GRAYINI	(ARP	
	89.0 150		151	
(	MC575·			

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

218014

APP. 1.5 E OF BEDFORD, IND. ON TUNNELTON RD

Sat, Aug 29, 1964

Owner-Contractor

Well Owner

Name

Address

Telephone

**Building Contractor Drilling Contractor** 

Equipment Operator

**AUDRIE BEAVERS** 

BEDFORD, IND. R.R.5

ERNIE UMPHRESS & SONS BEDFORD, IND. R.R. 6 **EUGENE & CHARLES** UMPHRESS

License:

Construction Details

Well

Casing Screen

Use: HOME Depth: 34.0 Length: 10.0 Length:

Drilling method: CABLE TOOL

Pump setting depth:

Material: Material: Pump type: Water quality: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test:

Test rate: gpm for hrs.

BailTest rate: 20.0 gpm for hrs.

Drawdown: ft.

Static water level: 12.0 ft.

Grouting Information

Well Abandonment

Material:

Installation Method:

Depth: from to Number of bags used:

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 19

Field located by: JUH

Rotton

Courthouse location by: Location accepted w/o verification by:

Subdivision name: Ft W of EL: 2700

Ton

Ground elevation: 530.0

UTM Easting: 547745.0

Ft N of SL:

Depth to bedrock: 7.0

Formation

on: Mon, Aug 01, 1966 on:

Township: 5N Range: 1E

Lot number:

Ft E of WL: Bedrock elevation: Ft S of NL: 2200 Aquifier elevation:

Topo map: BEDFORD EAST

523.0

on:

UTM Northing: 4300632.0

Well Log

тор	Dottom	7 0111811011
0.0	3.0	DIRT
3.0	7.0	BROKEN LS
7 0	22.0	GRAY LS HARD
22.0	34.0	BLUE LS HARD

MC575; Comments



#### Indiana Department of Natural Resources

Reference Number	Driving directions to well			Date completed
218019	TUNNELTON RD ABOUT 2	Thu, Jun 04, 1964		
Owner-Contractor Well Owner	<i>Name</i> ROBERT HERTHEL	Address BEDFORD, IND.		Telephone
Building Contractor Drilling Contractor	ERNIE UMPHRESS & SONS	BEDFORD, IND. R.R6		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOOL	Pump type:	
	Depth: 224.0	Pump setting depth:	Water quality	
Casing Scr <del>ee</del> n	Length: 27.0 Length:	Material: Material:	Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test: Drawdown: ft	Test rate: gpm for hrs Static water level: 84 0 ft	BailTest ra	ate: 0.42 gpm for hrs.
Grouting Information	Material: Installation Method:		pth: from to mber of bags used:	
Well Abandonment	_		pth: from to mber of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range:	· 16
<b></b>	Section: NW 1/4 of the NW 1/4 of the SE 1/4 of Section 19		to money: 514 stange.	Topo map: BEDFORD EAS
	Field located by: JCH		on: Mon, Aug 01, 196	6
	Courthouse location by:		on:	
	Location accepted w/o verifica	tion by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL: 2300	Ft N of SL: 2300	Ft E of WL:	Ft S of NL:
	Ground elevation · 570 0	Depth to bedrock: 200	Bedrock elevation: 550 0	Aquifier elevation:
	UTM Easting: 547885 0		UTM Northing: 43004	03 0
Vell Log	Top Bottom			
	00 70	DIRT		
	7 0 20 0	BOULDERS & MU	D HOLES	
	20 0 54 0	BLUE LS HARD		
	54 0 57 0	BLUE SH SOFT		
	57 0 75 0	GRAY LS HARD		
	75 0 92 0	BLUE LS HARD		
	92.0 101.0	GRAY LS HARD		

Comments

65

Reference Number	Driving directions to well				Date completed
218024	APP. 1MI SE OF BEDFORD IND. ON TUNNELTON RD. LOT 35 & 35A IN BROOK KNOLL ADDATION				Fri, May 28, 1965
Owner-Contractor Well Owner Building Contractor	Name HERBERT ROSS		ddress EDFORD, IND. R.R. 5		Telephone
Drilling Contractor	ERNIE UMPHRESS &		EDFORD, IND. R.R.T6		
Equipment Operator	FLIGENE & CHARLES		License:		
Construction Details					
Well	Use: HOME	Dr	illing method: CABLE TOOI	. Pump type:	
	Depth: 177.0		imp setting depth:	Water quality	
Casing Screen	Length: 21.0 Length:		aterial: aterial:	Diameter: 6.1 Diameter: Sl	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.		rate: 0.15 gpm for hrs.
	Drawdown: ft.		Static water level: 75.0 f	it.	
Grouting Information	Material: Depth: from to				
	Installation Method:	Number of bags			
Well Abandonment	Sealing material:			Depth: from to	
	Installation Method:		ı	Number of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range: 1E	
	Section: SW 1/4 of the SW 1/4 of the NW 1/4 of Section 19				Topo map: BEDFORD EAST
	Field located by: JCH			on: Mon, Aug 01, 1966	
	Courthouse location by:			on:	
	Location accepted w/o verification by:			on:	
	Subdivision name:			Lot number:	
	Ft W of EL: 600		Ft N of SL:	Ft E of WL:	Ft S of NL: 2100
	Ground elevation: 575 0		Depth to bedrock: 15.0-	Bedrock elevation: 560.0	Aquifier elevation:
	UTM Easting: 547012.0	•		UTM Northing: 4300	844.0
Vall I on	Тор Е	Bottom	Formation		
Vell Log	<del></del>				
	0.0	0	DIRT		

			~	
Well Log	Тор	Bottom	Formation	
	0.0	1.0	DIRT	
	1.0	15.0	BROKEN LS	
	15.0	23.0	BLUE LS HARD	
	23 0	44.0	GRAY LS HARD	
	44.0	57.0	WH LS HARD	
	57.0	86 0	BLUE LS HARD	
	86 0	104 ()	BLUE LS SOFT	
	104 ()	1160	GRAY LS HARD	
	110 0	177 ()	BLUE SH SOFT	
Comments	MC 560	n ga ann an San San San San San San San San		. The same of the



#### Indiana Department of Natural Resources

Reference Number	Driving directions to well	page - an air a transmission billions source values and the source of the state of	Date completed	
217384	SR 58 3MI E OF BEDFORE	) IND.	Thu, Jul 10, 1958	
Owner-Contractor Well Owner	<i>Name</i> RAYMOND A STIPP	Address BEDFORD IND. R.R. 5	Telephon <del>e</del>	
Building Contractor Drilling Contractor	ERNIE UMPHRESS & SON	IS R.R. 6 BOX 13 BEDFORD INI		
Equipment Operator	BUAYRUS ERSI	License:		
Construction Details				
Well	Use: HOME	Drilling method:	Pump type:	
	Depth: 115.0	Pump setting depth:	Water quality:	
Casing Screen	Length: 21.3 Length:	Material: · Material:	Diameter: 6.0 Diameter: Slot size:	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest rate: gpm for 1.0 hrs.	
	Drawdown: ft.	Static water level: 80.0	ft.	
Grouting Information	Material:		epth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range: 1E	
	Section: NE 1/4 of the NW 1	/4 of the NE 1/4 of Section 8	Topo map: BARTLETTSVILLI	
	Field located by: BARNES		on: Mon, Aug 01, 1960	
	Courthouse location by:		on:	
	Location accepted w/o verifi	cation by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL:	Ft E of WL: Ft S of NL:	
	Ground elevation: 640.0 Depth to bedrock:		Bedrock elevation: Aquifier elevation:	
	UTM Easting:		UTM Northing:	
Well Log	Top Botto	m Formation		
	0 0 9.0	DIRT		
	9 0 20 0	SHELLIE WHIT	ME	
	20 0 94.0	HARD WILLIM		

**BLUE SH** 

940

115.0

LOC ACCEPTED W/O VERIF., YES; OWNER NOT HOME



Reference Number	Driving directions to well			Date completed
217389	APPR. 3MI E OF BEDFORD,	Tue, Feb 26, 1963		
Owner-Contractor Well Owner Building Contractor	<i>Name</i> OSCAR LOVEALL	Address 1707 P ST. BEDFORD		Telephone
Drilling Contractor	ERNIE UMPHRESS & SONS	BEDFORD, IND. R.R. 6		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOO	)L. Pump type:	
	Depth: 150.0	Pump setting depth:	Water quality	
Casing Screen	Length: 25.0 Length:	Material: Material:	Diameter: 6.0 Diameter: Sla	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest re	ue: 0.5 gpm for hrs.
	Drawdown: ft.	Static water level: 110	0 ft.	
Grouting Information	Material:		Depth: from to	
	Installation Method:	•	Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range.	
	Section: NE 1/4 of the NW 1/4	of the NW 1/4 of Section 8		Topo map: BARTLETTSVILLE
	Field located by: N		on: Thu, Aug 01, 196.	3
	Courthouse location by:		on:	
	Location accepted w/o verificat	tion by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL:	Ft E of WL: 900	Ft S of NL: 50
	Ground elevation: 670.0	Depth to bedrock: 24.0	<b>Bedrock elevation:</b> 646.0	Aquifier elevation:
	UTM Easting: 548796.0		UTM Northing: 4304	490 O

Well	Los

<del></del>	<b>.</b>	
Тор	Bottom	Formation
0.0	4.0	DIRT
4.0	13.0	BOULDERS
13.0	14.0	MUD HOLE
14 0	23.0	BLUE LS HARD
23 0	24.0	MUD LOLE
24.0	35.0	BLUE LS HARD
35 0	52.0	WH LS SOFT
52 0	96 0	BLUE LS HARD
96 0	98.0	BLUE SH SOFT
98 0	1120	BLUE LS HARD
1120	115 0	BLUE SH SOFT
1150	121 0	BLUE LS HARD
121 0	150 0	BLUE SH SOFT

#### Record of Water Well

Reference Number	Driving directions	to well			Date completed
217394	APPR. 2MI E OF E	BEDFORD ON	US 50 N/SIDE OF HIGHWAY		Thu, May 05, 1966
Owner-Contractor Well Owner	<i>Name</i> HAROLD HEWIT		ddress EDFORD, IND. R.R.6		Telephone
Building Contractor  Drilling Contractor	FRNIF LIMPHRES	S & SONS B	EDFORD, IND. R.R. 6		
Equipment Operator	EUGENE & CHAR UMPHRESS	IFS	icense:		
Construction Details					
Well	Use: HOME		rilling method: CABLE TOOL	Pump type:	
Caria	Depth: 150.0		ump setting depth:	Water quality	
Casing Screen	Length: Length:		aterial: aterial:	Diameter: 6. Diameter: SI	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs.  Static water level: 20.0 ft.	BailTest r	ate: 0.5 gpm for hrs.
Grouting Information	Material: Installation Method:		•	th: from to nber of bags used:	
Well Abandonment	•		th: from to nber of bags used:		
Administrative	County: LAWRENCE Section: NE 1/4 of the NE 1/4 of the SE 1/4 of Section 8			Township: 5N Range	: 1E Topo map: BARTLETTSVILLE
	Field located by: JU	JH		on: Mon, Aug 01, 196	56
	Courthouse location	ı by:		on:	
	Location accepted v	v/o verification	ı by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL: 100		Ft N of SL: 2100	Ft E of WL:	Ft S of NL:
	Ground elevation: 6	660.0	Depth to bedrock: 5.0	Bedrock elevation: 655.0	Aquifier elevation:
	UTM Easting: 5500	84.0		UTM Northing: 4303	557 0
Vell Log	Тор	Bottom	Formation		
	0.0	5.0	DIRT		
	5 0	8.0	LS BOULDERS		
	8.0	45.0	BR LS HARD		
	45.0	51.0	GRAY LS HARD		
	51.0	89.0	BLUE LS HARD		
	30.0	105.0	<b>GRAY LS HARD</b>		
	89.0				
	105.0	108.0	BLUE LS SOFT		
		108.0 115.0	BLUE LS SOFT BLUE LS HARD		

#### Record of Water Well

Reference Number	Driving directions to wel	1			Date completed
217399	9 APPR. 3MI E OF BEDFORD, I		N US 58		Wed, Oct 14, 1964
Owner-Contractor Well Owner	<i>Name</i> RAYMOND STIPP	Addres BEDF0	ss ORD, IND. R.R. 3		Telephone
Building Contractor Drilling Contractor	ERNIE UMPHRESS & S	ONS REDEC	ORD, IND. R.R. 6		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License			
Construction Details					
Well	Use: STOCK	Drillin	g method: CABLE TOOL	Pump type:	
	Depth: 150.0	-	setting depth:	Water qualit	=
Casing Screen	Length: Length:	Materi Materi		Diameter: 6. Diameter: Si	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 45.0 ft.	BailTest 1	rate: 3.0 gpm for hrs.
Grouting Information			oth: from to  mber of bags used:		
	ansamment mating				
Well Abandonment	Sealing material:		oth: from to		
	Installation Method:		Nu	mber of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range	
	Section: NE 1/4 of the NV	IE 1/4 of Section 8		<i>Topo map:</i> BARTLETTSVILLE	
	Field located by: JCH			on: Mon, Aug 01, 19	66
	Courthouse location by:			on:	
	Location accepted w/o ve	rification by:		on:	
	Subdivision name:			Lot number:	
	Ft W of EL: 1300	F	t N of SL:	Ft E of WL:	Ft S of NL: 300
	Ground elevation: 640.0	D	epth to bedrock: 50	Bedrock elevation: 635.0	Aquifier elevation:
	UTM Easting: 549679.0			UTM Northing: 4304	1419.0
Well Log	Тор Во	ottom	Formation		
	0.0	0	DIRT		
	8.0 12	2.0	LS BOULDERS		
	12.0 53	3.0	BLUE LS HARD		
	53.0 79	0.0	GRAY LS HARD		
	79.0	60.0	BLUE SH SOFT		

#### **Indiana Department of Natural Resources**

Reference Number 217414

Driving directions to well

Date completed

APPR 2.5MI E OF BEDFORD ON US HY 58 S/SIDE OF RD

Thu, Apr 21, 1966

Owner-Contractor Well Owner

Name WARREN D. RAINEY Address

Telephone

**Building Contractor Drilling Contractor** 

R.R. #3 BEDFORD

**Equipment Operator** 

ERNIE UMPHRESS & SONS BEDFORD, IND. R.R. 6 **EUGENE & CHARLES** UMPHRESS

License:

Construction Details

Well

Use: HOME Depth: 150.0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen Length: Length:

Pump setting depth: Material: Material:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 30.0 ft. BailTest rate: 1.0 gpm for hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method:

Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SE 1/4 of the SW 1/4 of the NE 1/4 of Section 7

Township: 5N Range: 1E

Topo map: BARTLETTSVILLE

Field located by: Courthouse location by:

Location accepted w/o verification by:

on:

on:

Subdivision name:

Ft W of EL: 1900

MC660:

Ft N of SL:

Lot number: FI E of WL:

Ft S of NL: 2000

Ground elevation: 670.0

Depth to bedrock: 100

Bedrock elevation: 660.0

Aquifier elevation:

UTM Easting: 547922.0

UTM Northing: 4303905.0

Well Log

Comments

Тор	Bottom	Formation	
0.0	7 0	DIRT	
7.0	15.0	BLUE LS HARD	
15.0	30.0	WH LS SOFT	
30.0	51.0	BLUF LS HARD	
51.0	66.0	BLUE SH SOFT	
66.0	89.0	BLUE LS HARD	
89.0	102 0	WHILSSOFT	
102.0	125 0	BLUF US HARD	
125.0	150 0	BLUE SHI <b>SOFT</b>	

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

217444

E OF BEDFORD, IND. ON US 58 TO PLEASANT RUN RD, TURN N, APPR. 1MI. WELL

ON E/SIDE OF RD

Thu, Mar 30, 1967

Owner-Contractor Well Owner

Name **DAN MATTHEWS**  Address BEDFORD, IND Telephone

**Building Contractor** Drilling Contractor **Equipment Operator** 

ERNIE UMPHRESS & SONS BEDFORD, IND. R.R. 6

**EUGENE UMPHRESS** 

License:

Construction Details

Well

Use: HOME Depth: 100.0 Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality: Diameter: 6.0 Diameter: Slot size:

Casing Screen

Length: 16.5 Length:

Material: Material:

BailTest rate: 8.0 gpm for hrs.

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 20.0 ft.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

on:

on:

Administrative

County: LAWRENCE

Section: SW 1/4 of the NW 1/4 of the SW 1/4 of Section 5

Township: 5N Range: 1E

on: Tue, Aug 08, 1978

Topo map: BARTLETTSVILLE

Field located by: JRD

Courthouse location by:

Location accepted w/o verification by:

Subdivision name:

Ft W of EL:

Ft N of SL: 1900

Lot number: Ft E of WL: 100

Ft S of NL:

Ground elevation: 690.0

Depth to bedrock: 9.0

Bedrock elevation:

Aquifier elevation:

UTM Easting: 548537.0

681.0 UTM Northing: 4305110.0

Well Log

Тор	Bottom	Formation
0.0	9.0	DIRT
9.0	45 0	GRAY LS HARD
45 0	62.0	WH LS HARD
62 0	70.0	BLUE LS SOFT
70 D	83.0	GRAY LS HARD
83 0	100 0	BLUE LS HARD

Comments

MC681, OWNER VERIFIED/20' SW OF HOUSE; MC;

#### **Record of Water Well**

Reference Number	Driving directions to well	ander desired a super service and service address and service address and service address and service address a	Employees on a garage of the tensor of	Date completed
217449	APPR 3MI E OF BEDFORD,	Tue, Apr 20, 1965		
Owner-Contractor Well Owner	<i>Name</i> JEFFERSON RAGSDALE	Address BEDFORD, IND RR 3		Telephone
Building Contractor  Drilling Contractor	ERNIE UMPHRESS & SONS	BEDFORD, IND R.R. 6		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOOL	Pump type:	
	Depth: 200 0	Pump setting depth:	Water quality	<i>):</i>
Casing Screen	Length: 60 Length:	Material: Material:	Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs.  Static water level: 60 0 ft.	BailTest r	ate: 0 5 gpm for hrs.
Grouting Information	Material:	Dej	pth: from to	
	Installation Method:	Nu	mber of bags used:	
Well Abandonment	Sealing material: Installation Method:			
Administrative	County: LAWRENCE Section: NW 1/4 of the SE 1/4	of the SW 1/4 of Section 5	Township: 5N Range	: 1E Topo map: BARTLETTSVILLE
	Field located by:		on:	DARTECTIONICE
	Courthouse location by:		on:	
	Location accepted w/o verifica	tion by:	on:	
	Subdivision name.	F. M. 601	Lot number:	5.0 th
	Ft W of El.	Ft N of SL: 1100	Ft E of WL: 1800  Bedrock elevation:	Ft S of NL:
	Ground elevation: 630 0  UTM Easting: 549031 0	Depth to bedrock: 50	625 0 UTM Northing, 4304	Aquifier elevation: 821 0
		~	•	
Vell Log	Γορ Bottom	Formation		
	0 0 3 0	DIRT		
	3 0 38 0	BLUE LS HARD		
	38.0 53.0	GRAY LS SOFT		
	53.0 200.0	BLUE SH SOFT		
Comments	MC625			

#### Indiana Department of Natural Resources

Reference Number 217454

Driving directions to well

Date completed

APPR. 150' E OF BEDFORD & BARTLETTSVILLE RD IN TAVEN

Wed, May 25, 1960

Owner-Contractor Well Owner

Name

Address 1027 O ST. Telephone

**Building Contractor Drilling Contractor Equipment Operator**  DELBERT BAKER

ERNIE UMPHRESS & SONS R.R. 6 BOX 13 BEDFORD IND

ERNIE UMPHRESS & SONS License:

Construction Details

Well

Use: HOME Depth: 98.0

Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen Length: 40.0 Length:

Pump setting depth: Material: Material:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft.

Test rate: gpm for hrs. Static water level: 48.0 ft. BailTest rate: 1.8 gpm for 1.0 hrs.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the SW 1/4 of the SW 1/4 of Section 5

Township: 5N Range: 1E

Topo map: BARTLETTSVILLE

Field located by: BARNES

Courthouse location by:

on: Mon, Aug 01, 1960 on:

Location accepted w/o verification by:

Ft W of EL:

Subdivision name:

Ft N of SL: 450

Lot number: Ft E of WL: 50

Ft S of NL:

Ground elevation: 700.0 UTM Easting: 548522.0

Depth to bedrock: 60

Bedrock elevation:

Aquifier elevation:

694 0

UTM Northing: 4304677.0

Well Log

Тор	Bottom	Formation
00	6.0	DIRT
60	350	LS BOULDERS
35 0	70.0	LS WH SOF!
70 0	80.0	<b>LS BLUE</b> HARD
80.0	98.0	LS WH HARD

Comments

MC695, LOC. ACCEPTED W/O VERIF., NO:

#### **Indiana Department of Natural Resources**

Rej	feren	ce N	umber	
2	17/	50	١	

Driving directions to well

Date completed

Z17459

ON SR 58, 3MI E OF BEDFORD

Mon, Apr 20, 1964

- -- - - - - - -

Owner-Contractor Well Owner **Building Contractor**  Name WAYNE HAMMOND

Address BEDFORD R.R. 3 Telephone

**Drilling Contractor Equipment Operator** 

FLOYD STULTZ

BEDFORD IND. R R. 4

License:

Construction Details

Well

Use: HOME Depth: 200 0 Length: 90 Length:

Drilling method: CABLE TOOL

Pump setting depth: Material:

Pump type: Water quality:

Material:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Casing

Screen

Type of test: Drawdown: ft. Test rate: gpm for 8 0 hrs. Static water level: 70.0 ft. BailTest rate: 0.25 gpm for hrs.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SE 1/4 of the SW 1/4 of the SE 1/4 of Section 5

Township: 5N Range: 1E

on: Mon, Aug 01, 1966

Topo map: BARTLETTSVILLE

Field located by: JUH

Courthouse location by:

Location accepted w/o verification by:

Ft N of SL: 100 Ft E of WL: Ft S of NL:

Ft W of EL: 1800 Ground elevation: 6700

UTM Easting: 549533 0

Subdivision name:

Depth to bedrock. 100

Bedrock elevation:

Lot number:

Aquifier elevation:

6600

on:

on:

UTM Northing: 4304538.0

Well Log

lop	Bollom	Formation
0 0	90	CLAY
9 0	95 0	LS
95 0	200.0	SOAPSTONE

Comments

MC660;

26 0

60.0

Comments

#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number Driving directions to well Date completed 217464 ON BEDFORD & BARTLETTS VILLE RD ABOUT 3MI E OF BEDFORD IND. 5MI N OF Mon, Jul 20, 1959 SR 58 Owner-Contractor Name Address Telephone R.R. 5 BEDFORD IND Well Owner PAT MURPHEY **Building Contractor** ERNIE UMPHRESS & SONS R.R. 6 BOX 13 BEDFORD IND **Drilling Contractor ERNIE UMPHRESS** License: Equipment Operator Construction Details Use: HOME Drilling method: CABLE TOOL Pump type: Depth: 80.0 Pump setting depth: Water quality: Length: 27.92 Material: Diameter: 6.0 Casing Diameter: Slot size: Screen Length: Material: Test rate: gpm for hrs. BailTest rate: 0.16 gpm for 1.0 hrs. Well Capacity Test Type of test: Static water level: 21.0 ft. Drawdown: ft. Grouting Information Material: Depth: from to Installation Method: Number of bags used: Well Abandonment Sealing material: Depth: from to Installation Method: Number of bags used: Administrative County: LAWRENCE Township: 5N Range: 1E Topo map: Section: NW 1/4 of the NW 1/4 of the SW 1/4 of Section 5 BARTLETTSVILLE Field located by: BARNES on: Mon, Aug 01, 1960 Courthouse location by: on: Location accepted w/o verification by: on: Subdivision name: Lot number: Ft N of SL: 1950 Ft E of WL: 300 Ft W of EL: Ft S of NL: Bedrock elevation: Ground elevation: 680 0 Depth to bedrock: 26 0 Aquifier elevation: 654 0 UTM Easting: 548576 0 UTM Northing: 4305120 0 Formation Well Log Top Bottom

DIRT

WHILIME HARD BLUF LIME HARD

26 0

60 0

80 0

MC655; LOC ALCEPTED W/O VERIF. NO.

#### Indiana Department of Natural Resources

Reference Number	Driving direct	ions to well	The second secon		Date completed
217469	A PART OF T BARTLETTS		TER OF SECTION 5, TOWNSI	ER OF SECTION 5, TOWNSHIP 5N RANGE 1E ON	
Owner-Contractor Well Owner Building Contractor	<i>Name</i> James D. Deckard		Address 816 P. ST. BEDFORD, IND.		Telephone
Drilling Contractor	ERNIE UMPH	RESS & SONS	BEDFORD, IND. R R. 6		
Equipment Operator	EUGENE & C UMPHRESS	HARLES	License:		
Construction Details					
Well	Use: HOME		Drilling method: CABLE TO		
Carta	Depth: 200 0		Pump setting depth:	Water quality	
Casing Screen	Length: 24 5 Length:		Material: Material:	Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs Static water level: 60		ate: 0.33 gpm for hrs.
Grouting Information	Material: Installation Method:			Depth: from to	
				Number of bags used:	
Well Abandonment	Sealing material: Installation Method:			Depth: from to Number of bags used:	
Administrative	County: LAWI			Township: 5N Range	: 1E <i>Topo map:</i>
	Section: SW 1/	4 of the SW 1/4	of the SW 1/4 of Section 5		BARTLETTSVILLE
	Field located b	y: JUH		on: Mon, Aug 01, 196	66
	Courthouse loc	ation by:		on:	
	-	ited w/o verifica	tion by:	on:	
	Subdivision na	me:		Lot number:	
	Ft W of EL:		Ft N of SL: 600	Ft E of WL: 100	Ft S of NL:
	Ground elevati	on: 710 0	Depth to bedrock: 50	<b>Bedrock elevation:</b> 705 0	Aquifier elevation
	UTM Easting:	548533 0		UTM Northing: 4304	733 0
Vell Log	Тор	Bottom			
	00	4 0	DIRT		
	4 0	170	BROKEN LS		
	170	30	GRAY LS SO	FT	
	30 0	551	WH LS SOFT		
	55 0	97 (	BLUE LS HAI	RD	
	97 0	105 (	GRAY LS HA	RD	
	125 0	13	BLUE LS HAI	RD	
	1210		BLUE SH SOF	<b>-</b> T	
	134 ()	1C +1	BLUE SH SUI	•	
	134 0	17.	BLUE LS HAI		

MC705

#### **Indiana Department of Natural Resources**

Reference Number Driving directions to well Date completed 217474 3MINE OF BEDFORD IND ON BEDFORD & BARTHERSVILLE RD Thu, Jul 16, 1959 Address Telephone Owner-Contractor Name 67E. 17TH ST. BEDFORD, IND RICHARD ALLEN Well Owner **Building Contractor Drilling Contractor** ERNIE UMPHRESS & SONS R.R. 6 BOX 13 BEDFORD IND **BUAYRNS ERE** License: Equipment Operator Construction Details Use: HOME Drilling method: CABLE TOOL Pump type: Well Pump setting depth: Water quality: Depth: 69.0 Length: 14.0 Material: Diameter: 6.0 Casing Material: Diameter: Slot size: Length: Screen Type of test: Test rate: gpm for hrs. BailTest rate: 1.0 gpm for 1.0 hrs. Well Capacity Test Drawdown: ft. Static water level: 48.0 ft. Material: Depth: from to **Grouting Information** Installation Method: Number of bags used: Sealing material: Depth: from to Well Abandonment Installation Method: Number of bags used: Administrative County: LAWRENCE Township: 5N Range: 1E Topo map: Section: SW 1/4 of the SW 1/4 of the SW 1/4 of Section 5 BARTLETTSVILLE

Field located by: BARNES on: Mon, Aug 01, 1960 Courthouse location by:

Location accepted w/o verification by: on:

Lot number: Subdivision name:

Ft N of SL: 400 Ft E of WL: 50 Ft W of EL: Ft S of NL: Bedrock elevation: Ground elevation: 690.0 Depth to bedrock: 4.0 Aquifier elevation: 686.0

UTM Easting: 548538.0 UTM Northing: 4304645 0

Top **Bottom** Formation Well Log DIRT 0.04.0 4.0 100 SHELLIE LIME 69.0 WH LIME, NOT TO HARD 10.0 MC685 LOC. ACETED W/O VERIF., NO: Comments

#### **Indiana Department of Natural Resources**

Reference	Number
21767	6

Driving directions to well

Date completed

4 MILES NE OF BEDFORD IN - 1 MI E OF MT. PLEASANT CHRISTIAN CHURCH NW *Z*1/0/0

CORNER OF SEC. 31, TWP. 6

Tue, Dec 01, 1964

Owner-Contractor Well Owner

Name **VIRN STULTZ**  Address

Telephone

**Building Contractor Drilling Contractor** 

RR 4, BEDFORD IN

Pump setting depth:

ERNIE UMPHRESS & SONS RR 6, BEDFORD IN

Equipment Operator

E. & C. UMPHRESS

License:

Construction Details

Well

Use: HOME Depth: 200.0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen Length: 28.0 Length:

Material: Material: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 90.0 ft. BailTest rate: 0.3 gpm for hrs.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

on:

on:

Administrative

County: LAWRENCE

Section: NW 1/4 of the SE 1/4 of the SW 1/4 of Section 31

Township: 6N Range: 1E

on: Mon. Aug 01, 1966

Topo map: BARTLETTSVILLE

Field located by: JVH

Courthouse location by: Location accepted w/o verification by:

Subdivision name:

Ft N of SL: 700

Lot number:

Ft S of NL:

Ft W of EL:

Depth to bedrock: 50

Ft E of WL: 2200 Bedrock elevation:

Aquifier elevation:

Ground elevation: 630.0 UTM Easting: 547401.0

625 0 UTM Northing: 4306326 0

Well Log

Comments

Тор	Bottom	Formation	
0.0	5 0	DIRT	
5.0	23 0	BLUE LIMES FONE BOULDERS MUDHOL	
23.0	56.0	BLUE LIMES (ONE HARD)	
56 ()	81.0	GRAY LIMESTONE HARD	
810	200.0	BLUE SHALE SOFT	
MC 625			

#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number 217681

Driving directions to well

Date completed

SIX MILES NE OF BEDFORD

Mon, Oct 05, 1959

Owner-Contractor
Well Owner
Building Contractor
Drilling Contractor

*Name* PAUL FISH Address RR 4 BEDFORD IN RR 4, BEDFORD IN Telephone

Equipment Operator

FLOYD STULTZ FLOYD STULTZ

License:

Construction Details

Well

Use: Depth: 125.0 Length: 7.0 Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality: Diameter: 6.0

Casing Screen Length: 7.0 Length:

Material: Material: Diameter: 6.0
Diameter: Slot size:

Well Capacity Test

Type of test:
Drawdown: ft.

Test rate: gpm for hrs. Static water level: 40 0 ft BailTest rate: 1.0 gpm for 8.0 hrs.

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to
Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the NW 1/4 of the SW 1/4 of Section 31

Township: 6N Range: 1E

on: Mon, Aug 01, 1960

Topo map: BARTLETTSVILLE

Field located by: BARNES

Courthouse location by:

Location accepted w/o verification by:

0

on: Lot number:

on:

Ft W of EL:

Ft N of SL: 1600

Ft E of WL: 300

Ft S of NL:

Ground elevation: 680.0

Subdivision name:

Depth to bedrock: 70

Bedrock elevation:

Aquifier elevation:

UTM Easting: 546658 0

673 0

UTM Northing: 4306524.0

Well Log

(omments

Тор	Bottom	Formation	
0 0	70	CLAY	
7 0	11 0	SANDSTONE	
110	31 0	SOAPSTONE	
310	90 0	HARD LIMESTONE	
90 0	125.0	SOAPSTONE	
140675			



#### Indiana Department of Natural Resources

Reference Number	Driving directions to well			Date completed
217686	ABOUT 6 MILES NE OF BEDFORD AND ABOUT 1-1/2 MI NW OF PLEASAN CHURCH WHICH IS ON BEDFORD & BARTLETTS VILLE ROAD			Tue, Aug 11, 1959
Owner-Contractor Well Owner Building Contractor	<i>Name</i> EARL BARTLET	<i>Address</i> RR 4, BEDFORD		Telephone
Drilling Contractor	ERNIE UMPHRESS & SON	IS RR 6 BEDFORD IN		
Equipment Operator	B. ERIE	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOO	L Pump type:	
	Depth: 280.0	Pump setting depth:	Water quality	
Casing Screen	Length: 11.3 Length:	Material: Material:	Diameter: 6. Diameter: Sl	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest r	nate: 0.13 gpm for 1.0 hrs.
	Drawdown: ft.	Static water level: 145.	0 ft.	
Grouting Information	Material: Depth: from to			
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material: Ins:allation Method:		Depth: from to	
	ins:avation Method:		Number of bags used:	
Administrative	County: LAWRENCE	/4 of the NW 1/4 of Section 30	Township: 6N Range	:: 1E Topo map:
	Section: SE 1/4 of the NW 1/	4 of the 14 w 1/4 of Section 30		BARTLETTSVILLE
	Field located by: BARNES		on: Mon, Aug 01, 19	60
	Courthouse location by:		on:	
	Location accepted w/o verific	cation by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL.	Ft E of WL: 1500	Ft S of NL: 1100
	Ground elevation: 750.0	Depth to bedrock: 9.0	<b>Bedrock elevation:</b> 741.0	Aquifier elevation:
	UTM Easting: 547183 0		UTM Northing: 4308	3956 0
Well Log	Тор Воно	m Formation ~		
	0.0 9 0	DIRT		
	9 0 80 0	LIME SOFT		
	30.0 35 0	BI UE SHALE		
	35.0 80 0	WHITE LIME		
	80.0 85 ti	BI UE SHALE		
	85.0 132.0		HARD	

BI HE SHALE

280 o

132.0

MC745

#### **Indiana Department of Natural Resources**

Reference	Number
21769	1

Date completed

DRILLED AT BIG BARN FARM CORNERING AT BARTLETTSVILLE AND PLEASANT

**RUN ROADS, 7 MILES NE OF BEDFORD** 

Mon, Jul 22, 1963

Owner-Contractor

Name Well Owner **CLAUDE HARRELL**  Address

Telephone

**Building Contractor Drilling Contractor** 

Driving directions to well

RR 3, BOX 154, BEDFORD IN

ERNIE UMPHRESS & SONS RR 6 BEDFORD IN

E. & C. UMPHRESS Equipment Operator

License:

Construction Details

Well

Use: HOME

Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen Depth: 142.0 Length: Length:

Pump setting depth: Material: Material:

Diameter: Diameter: Slot size:

BailTest rate: gpm for hrs.

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: ft.

**Grouting Information** 

Material: Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

on:

Administrative

County: LAWRENCE

Section: NW 1/4 of the SE 1/4 of the SE 1/4 of Section 30

Township: 6N Range: 1E

Topo map: BARTLETTSVILLE

Field located by:

Courthouse location by: Location accepted w/o verification by: on: on:

Subdivision name:

Ft W of EL: 1000 Ft N of SL: 1050 Lot number: Ft E of WL:

Ft S of NL:

Ground elevation: 680 0

Depth to bedrock: 13.0

Bedrock elevation:

Aquifier elevation:

UTM Easting: 548073 0

6670

UTM Northing: 4308029 0

Well Log

Гор	Bottom	Formation	
0.0	13 0	DIRT	
130	31 0	BLUE LIMESTONE HARD	
31.0	46 0	GRAY LIMESTONE SOFT	
46.0	61 0	BLUE LIMESTONE HARD	
61 0	73 0	GRAY LIMESTONE HARD	
73 ti	131.0	BLUE LIMESTONE HARD	
131 ()	142.0	BLUE SHALE SOFT	

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Reference Number 217696	Driving directions	to well	erpersonnel 29 à 1999 🐬 - 1984-1880 e.g. direb 1866 - 19	and the state of t	Date completed
21/090	NORTH EAST OF	BEDFORD	) IND ON MOUNT PLEASANT	ROAD	Fn, Sep 23, 1960
Owner-Contractor Well Owner	<i>Name</i> LAWRENCE HAR	RELL	Address		Telephone
Building Contractor Drilling Contractor	ERNIE UMPHRES	S & SONS	BEDFORD IND. RR6 BOX 13		
Equipment Operator	ERNIE UMPHRES	S & SONS	License:		
Construction Details					
Well	Use: STOCK		Drilling method: CABLE TOO	L Pump type:	
	Depth: 250 0		Pump setting depth:	Water quality:	•
Casing Screen	Length: 16 25 Length:		Material: Material:	Diameter: 6 0 Diameter: Slo	t size:
Well Capacity Test	Type of test: Drawdown: ft		Test rate: gpm for hrs. Static water level: 125 0		te: gpm for hrs
Grouting Information	Material: Installation Method	<b>1</b> :		Depth: from to Number of bags used:	
Well Abandonment	Sealing material: Installation Method	f:		Depth: from to Number of bags used:	
Administrative	County: LAWRENG		of the SE 1/4 of Section 30	Township: 6N Range:	IE Topo map:
			of the 3E 1/4 of Section 30	5 11 04 1060	BARTLETTSVILLE
	Field located by: So			on: Fri, Nov 04, 1960	
	Courthouse location	-		on:	
	Location accepted v	v/o vertjic <b>a</b>	uon by:	on·	
	Subdivision name:		F. N. 601 400	Lot number:	
	Ft W of EL: Ground elevation: 1	720 0	Ft N of SL: 400  Depth to bedrock: 6 0	Ft E of WL: 2700 Bedrock elevation: 7140	Ft S of NL: Aquifier elevation:
	UTM Easting: 5475	665 0		UTM Northing: 43078	44.0
Well Log	Тор	Bottom	Formation		
	0 0	60	DIRT	<del></del>	
	6 0	36 0	WHITE LS HAR	RD.	
	36 0	48 0	BLUE LS SOFT		
	48 0	54 0	WHITE LS HAR	RD.	
	54.0	102 0	BLUE LS HARD	)	
	_14 17				
	102.0	1080	WHITE LS SOF	T	
		108 0 121 0	WHITE LS SOF BLUE LS HARD		





Reference Number	Driving directions to well	and disputations are distinct and disputation of the state of the stat	Tapedo Harriso Managara Como ( pode como ( po	Date completed
219663				Sat, Feb 13, 1954
Owner-Contractor Well Owner	Name STEPHEN BUCK	<i>Address</i> AT CEMETERY TARRY P	ARK	Telephone
Building Contractor  Orilling Contractor	HOMER ALFORD	RR #2 MITCHELL		
Equipment Operator		License:		
Construction Details				
Vell	Use: HOME	Drilling method: CABLE T	OOL Pump type.	:
	Depth: 100.0	Pump setting depth:	Water quai	lity:
Casing Screen	Length: 16.0 Length:	Material: Material:	Diameter: Diameter:	
Well Capacity Test	Type of test: Deawdown: ft.	Test rate: gpm for h Static water level: ft		t rate: 0.35 gpm for 0.5 hrs.
Frouting Information	Material: Installation Method:		Depth: from to  Number of bags used:	
	instalution method.		tramber of bugs useu.	
Vell Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 4N Ran	ge: IW
	Section: 1/4 of the 1/4 of the	te 1/4 of Section 3		Topo map: BEDFORD WEST
	Field located by:		on:	
	Courthouse location by:		on:	
	Location accepted w/o veri	fication by:	on:	
	Subdivision name:		Lat number:	
	Ft W of EL:	Ft N of SL:	Ft E of WL:	Ft S of NL:
	Ground elevation:	Depth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting:		UTM Northing:	
Vell Log	Top Bo	tom Formation	<del></del>	<del></del>
	0.0 16.	OVRBRIDN	JLAY BLDRS BRKN LS	
	16.0	0.0 LS		
Comments	APPROX LOC: WELL HA	S RESERVE CAP 80 GAL		

#### **Indiana Department of Natural Resources**

Reference Nun	nber
219668	

Driving directions to well

Date completed

APPROX. 3MI S BEDFORD ON OLD RD 37 ACROSS FROM CRESTHAVEN CEMETRY Mon, May 11, 1964

- --- - ---

Owner-Contractor Well Owner

Name APPLACRES, INC. Address R. #1 BEDFORD, IND. Telephone

**Building Contractor Drilling Contractor Equipment Operator**  ERNIE UMPHRESS & SONS BEDFORD, IND. R.R., 6

Pump setting depth:

**EUGENE & CHARLES UMPHRESS** 

License:

Material:

Material:

Construction Details

Well

Use: HOME Depth: 258.0 Drilling method: CABLE TOOL

Pump type: Water quality: Diameter: 6.0 Diameter: Slot size:

Casing

Length: 35.5 Length:

Test rate: gpm for hrs.

BailTest rate: 0.75 gpm for hrs.

Well Capacity Test

Drawdown: ft.

Type of test:

Static water level: 50.0 ft.

Grouting Information

Material: Installation Method: Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the NE 1/4 of the SW 1/4 of Section 3

Township: 4N Range: 1W

on: Tue, Aug 17, 1971

Topo map: BEDFORD

WEST

Field located by: DW

Courthouse location by: on: Location accepted w/o verification by:

Subdivision name:

Ft N of SL:

Lot number: Ft E of WL: 1550

Ft S of NL: 1800

Ft W of EL: Ground elevation: 610.0

Depth to bedrock: 29 0

Bedrock elevation: 581.0

Aquifier elevation:

UTM Easting: 542436.0

UTM Northing: 4295420.0

Well Log

Тор	Bottom	Formation	
0.0	7.0	DIRT	
7.0	29.0	BOULDERS & MUD HOLE	
24.0	38.0	WH15 HARD	
38.0	60.0	BRISOFF	
60.0	94.0	WHINHARD	
94.0	103.0	GRAY LS HARD	
103.0	108.0	BULLS HARD	
108.0	114.0	BULLISSOFT	
1140	131.0	BUCCUS HARD	
131.0	136.0	GRANTA SOFT	
136 0	158.0	BLOUS HARD	
158.0	187.0	CR - INHARD	
187 0	200.0	V 550HT	

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	vell			Date completed
	Wed, Mar 22, 1967			
Name	Addre	ss		Telephone
	3. 105 SI	HAWNEE DRIVE BEDFORD	, IND	
MOWERI				
		•		
EUGENE UMPHRESS	Licens	e:		
Use: HOME	Drillin	g method: CABLE TOOL	Pump type:	
Depth: 218 0	•	<del>.</del> •		
Length: 21.0 Length:			-	
Type of test: Drawdown: ft		Test rate: gpm for hrs. Static water level: 93.0 ft.	BailTest r	ate: 1.0 gpm for hrs
Material: Installation Method:		<del>-</del>		
Sealing material: Installation Method:		-		
County: LAWRENCE	NT 1/4 - 6-5 - N		Township: 4N Range	: 1W Topo map: BEDFORD
	NE 1/4 Of the IN	W 1/4 of Section 3		WEST
Field located by: PW			on: Tue, Aug 17, 197	1
Courthouse location by.	:		on:	
Location accepted w/o v	verification by:		on:	
Subdivision name:			Lot number:	•
Ft W of EL:	Ft	N of SL:	Ft E of WL: 1950	Ft S of NL: 1150
Ground elevation: 620 (	) De	pth to bedrock: 150	Bedrock elevation: 605 0	Aquifier elevation
UTM Easting: 542539 0	)			121 0
Тор	Bottom	Formation		
00	10	DIRT		
10	15 0	BOULDERS & BRO	KEN LS	
150 4	<b>18</b> ()	GRAY LS SOFT		
48 0	57 ()	BLUE LS HARD		
	<b>34</b> ()	GRAY LS SOFT		
	51 -	BLUE LS HARD		
		OFOR POUND		
	85 O	WHISSOFT		
151 0	85 () 95 (	WH LS SOFT BLUE SH SOFT		
	Name ROBERT M. & LOIS E MOWERY  ERNIE UMPHRESS & EUGENE UMPHRESS  Use: HOME Depth: 218 0 Length: 21.0 Length: Type of test: Drawdown: ft  Material: Installation Method:  Sealing material: Installation Method:  County: LAWRENCE Section: SW 1/4 of the life of	Driving directions to well  100YDS W OF KELLY CASTLY SPI DOWN STREAM FROM MONON B  Name Addre ROBERT M. & LOIS B. 105 SI MOWERY 105 SI  ERNIE UMPHRESS & SONS BEDF EUGENE UMPHRESS Licens  Use: HOME Drillin Depth: 218 0 Pump Length: 21.0 Materi Length: Materi  Type of test: Drawdown: ft  Material: Installation Method:  County: LAWRENCE Section: SW 1/4 of the NE 1/4 of the N Field located by: PW Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ft Ground elevation: 620 0 De UTM Easting: 542539 0  Top Bottom  0 0 1 0 1 0 15 0 15 0 48 0 48 0 57 0 57 0 84 0 84 0 106 to	Driving directions to well  100YDS W OF KELLY CASTLY SPRING 300YRS SW OF E. FO DOWN STREAM FROM MONON BRIDGE  Name ROBERT M. & LOIS B. MOWERY  ERNIE UMPHRESS & SONS EUGENE UMPHRESS  License:  Use: HOME Depth: 218 0 Pump setting depth: Length: Material: Length: Material: Type of test: Drawdown: ft  Static water level: 93.0 ft.  Material: Installation Method:  Num  County: LAWRENCE Section: SW 1/4 of the NE 1/4 of the NW 1/4 of Section 3  Field located by: PW Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: 620 0 Depth to bedrock: 15 0  UTM Easting: 542539 0  Top Bottom Top Bottom Formation 0 10 DIRT 10 DIST 10 GRAY LS SOFT 48 0 57 0 BLUE LS HARD 57 0 BLUE LS HARD 57 0 BLUE LS HARD	Driving directions to well  100YDS W OF KELLY CASTLY SPRING 300YRS SW OF E. FORK WH RIVER5MI DOWN STREAM FROM MONON BRIDGE  Name ROBERT M. & LOIS B. 105 SHAWNEE DRIVE BEDFORD, IND  ERNIE UMPHRESS & SONS EUGENE UMPHRESS License:  Use: HOME Drilling method: CABLE TOOL Pump type: Water quality Length: 21.0 Material: Diameter: 5t.  Type of test: Test rate: gpm for hrs. BailTest in Drawdown: ft Static water level: 93.0 ft.  Material: Installation Method: Number of bags used:  Sealing material: Installation Method: Number of bags used:  County: LAWRENCE Township: 4N Range Section: SW 1/4 of the NE 1/4 of the NW 1/4 of Section 3  Field located by: PW On: Tue, Aug 17, 197 Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ft N of SL: Ft E of WL: 1950 Ground elevation: 620 0 Depth to bedrock: 15 0 Bedrock elevation: Ground elevation: 620 0 Depth to bedrock: 15 0  UTM Rasting: 542539 0  Top Bottom Formation  00 10 10 DIRT 10 15 0 BOULDERS & BROKEN LS 15 0 48 0 GRAY LS SOFT 48 0 57 0 BLUE LS HARD



Reference Number 219678	Driving directions to we	e <i>11</i>			Date completed
217070	JUNCTION 50 & 37 WI	EST ON F	RD. 50 TO FIRST RD NORTH	1000 FT ON RIGHT	Fn, Oct 04, 1963
Owner-Contractor Well Owner Building Contractor	<i>Name</i> WILLIAM LEWIS		ddress MURRAY, BEDFORD		Telephone
Drilling Contractor	WILLARD ENGLISH &	SON R	R 1, CLAYTON IN		
Equipment Operator	LEON ENGLISH	Li	cense:		
Construction Details					
Well	Use: HOME	D	rilling method: ROTARY	Pump type:	
	Depth: 280.0	Pı	imp setting depth:	Water quality	y:
Casing Screen	Length: 44.0 Length:		aterial: aterial:	Diameter: 5. Diameter: Sl	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest r	ate: 0.67 gpm for hrs.
	Drawdown: ft.		Static water level: 50.0 ft	t.	
Grouting Information	Material:			Depth: from to	
	Installation Method:		۸	lumber of bags used:	
Well Abandonment	Sealing material:			Depth: from to	
	Installation Method:		۸	iumber of bags used:	
Administrative	County: LAWRENCE			Township: 4N Lange	
	Section: SW 1/4 of the N	W 1/4 of	the NW 1/4 of Section 3		Topo map: BEDFORD WEST
	Field located by: JVH			on: Mon, Aug 01, 196	66
	Courthouse location by:			on:	
	Location accepted w/o ve	rification	by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL:		Ft N of SL:	Ft E of WL: 400	Ft S of NL: 1000
	Ground elevation: 610 0		Depth to bedrock: 50	Bedrock elevation: 605.0	Aquifier elevation:
	UTM Easting: 542088 ()			UTM Northing: 4296	145 ()
Well Log	Тор В	onom	Formation		
	0.0	()	BLANK		

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#### Indiana Department of Natural Resources

	Reference Number	Driving directions to we	ell	ingrige too commission of the second of the	temperate for a dealer following to \$2 to 10 to \$1.	Date completed
	219683	3MI S OF BEDFORD, I	IND. ON	SAND PIT RD		Thu, May 02, 1968
	Owner-Contractor Well Owner	<i>Name</i> JOHN TINCHER		Address BEDFORD, IND.		Telephone
	Building Contractor Drilling Contractor	ERNIE UMPHRESS &	SONS E	BEDFORD, IND. R.R. 6		
	Equipment Operator	EUGENE & CHARLES UMPHRESS		icense:		
	Construction Details					
	Well	Use: STOCK		Orilling method: CABLE TOOL	Pump type:	
		Depth: 148.0		ump setting depth:	Water quality	
	Casing Screen	Length: 22.5 Length:		Aaterial: Aaterial:	Diameter: 6.0 Diameter: Slo	
,	Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs.  Static water level: 40.0 ft.	BailTest ra	ate: 0.25 gpm for hrs.
	Grouting Information	Material: Installation Method:		•	oth: from to mber of bags used:	
	Well Abandonment	Sealing material: Installation Method:		•	oth: from to mber of bags used:	
	Administrative	County: LAWRENCE	NW 1/4 c	of the NW 1/4 of Section 2	Township: 4N Range:	: 1W  Topo map: BEDFORD EAST
		Field located by: PW			on: Mon, Aug 16, 197	•
		Courthouse location by:			on:	•
		Location accepted w/o v		n bu	on:	
		Subdivision name:	,	<b></b>	Lot number:	
		Ft W of EL:		Ft N of SL:	Ft E of WL: 450	Ft S of NL: 100
		Ground elevation: 590.0	)	Depth to bedrock: 12.0	Bedrock elevation: 578 0	Aquifier elevation:
•		UTM Easting: 543661.0	)		UTM Northing: 4296-	439.0
	Well Log	Тор Е	Bottom	Formation~		
	8	0.0 1	2.0	DIRT		
			3.0	BR LS SOFT		•
			0.0	WH LS SOFT		
			2.0	BLUE LS HARD		
			27.0	WH LS HARD		

Comments

MC580, VERIFIED BY OWNER, MC;

S	7	3

Reference Number	Driving directions to well			Date completed
219688	4 MILES S BEDFORD OVE	ERLOOKING WHITE RIVER		Mon, Nov 02, 1964
Owner-Contractor	Name	Address		Telephone
Well Owner	BEDFORD CHRISTIAN CAMP	BEDFORD IN		
Building Contractor  Drilling Contractor	GEORGE SNAPP	RR 4, BLOOMINGTON IN		
Equipment Operator	GEORGE SNAPP	License:		
Construction Details				
Well	Use: PUBLIC SUPPLY	Drilling method: CABLE TO	OL. Pump type:	
	Depth: 100.0	Pump setting depth:	Water quality	
Casing Screen	Length: 39.0 Length:	Material: Material:	Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.		ate: 4.0 gpm for hrs.
	Drawdown: ft.	Static water level: 30.6	) ft.	
Grouting Information	Material:		Depth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	•
Administrative	County: LAWRENCE		Township: 4N Range	
		1/4 of the NE 1/4 of Section 2		Topo map: BEDFORD EAS
	Field located by: JVH		on: Mon, Aug 01, 196	90
	Courthouse location by:  Location accepted w/o verifi	ication by:	on: on:	
	Subdivision name:	cutton by.	Lot number:	
	Ft W of EL: 2200	Ft N of SL:	Ft E of WL:	Ft S of NL: 1200
	Ground elevation: 550.0	Depth to bedrock: 35 0	Bedrock elevation: 515 ()	Aquifier elevation:
	UTM Easting: 544420.0		UTM Northing: 4296	129.0
Well Log	Top Botto	om Formation		
	0.0	BLANK		

39

### Indiana Department of Natural Resources

Reference Number	Driving directions to wel	u			Date completed
219734	FROM FAYETTEVILLE MILE, CROSS CATTLE			OXTON, GO SOUTH 1/2	Sun, Mar 20, 1960
Owner-Contractor Well Owner	Name FRANK SCHERSCHEL	Address RFD 1, BEDFO	ORD		Telephone
Building Contractor Drilling Contractor	LOUIE O. SMITH	R #1, BEDFOR			
Equipment Operator	L. O. SMITH	License:			
Construction Details					
Well	Use: STOCK	Drilling metho	d: CABLE TOOL	Pump type:	
	Depth: 200.0	Pump setting d	lepth:	Water quali	ty:
Casing Screen	Length: Length:	Material: Material:		Diameter: Diameter: S	lot size:
Well Capacity Test	Type of test:		te: gpm for hrs	BailTest	rate: 1.5 gpm for 1.0 hrs.
	Drawdown: ft.	Static v	vater level: 20 0 ft.		
Grouting Information	Material:		_	pth: from to	
	Installation Method:		Nu	mber of bags used:	
Well Abandonment	Sealing material:		-	pth: from to	
	Installation Method:		Nu	mber of bags used:	
Administrative	County: LAWRENCE			Township: 4N Rang	e: 1W
	Section: NW 1/4 of the N	W 1/4 of the NW 1/4	of Section 5		Topo map: BEDFORD WES
	Field located by: BARNE	ES		on: Fri, Jul 01, 1960	
	Courthouse location by:			on:	
	Location accepted w/o ve	rification by:		on:	
	Subdivision name:			Lot number:	
	Ft W of EL:	Ft N c	of SL:	Ft E of WL: 400	Ft S of NL: 100
	Ground elevation: 520 0	Depth	to bedrock	Bedrock elevation:	Aquifier elevation:
	UTM Easting: 538869 0			UTM Northing: 429	6348 0
Well Log	Top Bo	ottom	Formation		
	0.0	0	BLANK		

MC...



Reference Number	Driving directions to	well			Date completed
219739	NEAR BEDFORD				Sat, Jul 03, 1954
Owner-Contractor Well Owner Building Contractor	<i>Name</i> JOHN WAGNER		dress OODS TERRY RD		Telephone
Duilding Contractor  Drilling Contractor	HOMER ALFORD	RR	#3 MITCHELL		
Equipment Operator		Lic	ense:		
Construction Details					
Well	Use: HOME	Dri	lling method: CABLE TOOL	Pump type:	
	Depth: 150.0	Pui	np setting depth:	Water quality	:
Casing Screen	Length: 28.0 Length:		terial: terial:	Diameter: 6.( Diameter: Sl	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.		ate: 0.33 gpm for hrs.
	Drawdown: ft.		Static water level: 67 0 ft		
Grouting Information	Material:		D	epth: from to	
	Installation Method:		N	umber of bags used:	
Vell Abandonment	Sealing material: Installation Method:			epth: from to umber of bags used:	
Ldministrative	County: LAWRENCE	:		Township: 4N Range.	· iw
	Section: 1/4 of the NE		V 1/4 of Section 4	•	Topo map: BEDFORD WEST
	Field located by:			on:	
	Courthouse location	by:		on:	
	Location accepted w/	o verification	by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL:		Ft N of SL:	Ft E of WL:	Ft S of NL:
	Ground elevation:		Depth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting: 54098	50		UTM Northing: 42963	357 0
Vell Log	Тор	Bottom	Formation		
	0 0	00	WATER @120		
	0 0	25 0	OVRBRN CLY R	OCKS BRKN LS	
	25 0	28.0	SOLID ROCK		
		150 0	LS		
	28.0	1	12.7		

9

Reference Number	Driving directions to	o well			Date completed
219744	BETWEEN MITCH	ELL & BED	OFORD ON SR 37 AT STOP L	IGHT WELL #3	Thu, Oct 03, 1968
Owner-Contractor	Name		Address		Telephone
Well Owner	MARATHON OIL S STATION	ERVICE			
Building Contractor	IOUN DEVNOLDS	e conc			
Orilling Contractor	JOHN REYNOLDS INC.	& 30NS. 1	WEST BADEN, IND. R.R. #1		
Equipment Operator	DON CALLAHAN, WALKER	HOWE [	License:		
onstruction Details					
Vell	Use: INDUSTRY		Orilling method: ROTARY	Pump type:	
ina	Depth: 303.0		Pump setting depth: Aaterial:	Water quality	
Casing Icreen	Length: 58.0 Length:		Aaterial: Aaterial:	Diameter: 6.6 Diameter: Slo	
Vell Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 60.6		ste: 2.0 gpm for hrs.
routing Information	Material: Installation Method:			Depth: from to Number of bags used:	
Vell Abandonment	Sealing material: Installation Method:			Depth: from to Number of bags used:	
dministrative	County: LAWRENC	E		Township: 4N Range	: 1W
	Section: SE 1/4 of the	e SE 1/4 of t	he NE 1/4 of Section 4		Topo map: BEDFORD WEST
	Field located by: PW	•		on: Sun, Jan 17, 1971	
	Courthouse location	by:		on:	
	Location accepted w/	o verification	on by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL: 100		Ft N of SL:	Ft E of WL:	Ft S of NL: 2050
	Ground elevation: 61	0 0	Depth to bedrock: 3.0	Bedrock elevation: 607.0	Aquifier elevation:
	UTM Easting: 54195	2 0		UTM Northing: 4295	829 ()
ell Log	Тор	Bottom	Formation		
	0.0	3.0	CLAY		
	3.0	110	LS		
	11.0	140	BROKEN STO	NE & MUD	
	14 0	20 ο	LS		
	20 0	3(1))	SS		
	30.0	5411	LIME		
	58 0	303.0	LS		

#### **Record of Water Well**

Reference Number	Driving directions to	well	The same set is a separate designation of the second of th	<ul> <li>у шим то с 3100 білдинга-тап фаделация;</li> </ul>	Date completed
219749	.25MI N OF JCT SR	37&50 S O	F BEDFORD ON WOODS FI	ERRY RD .25MI FROM SR 50	Wed, Jan 17, 1968
Owner-Contractor Well Owner	Name CHARLES WOOD		Address BEDFORD, R.R. 1		Telephone
Building Contractor Drilling Contractor	RAY E. ALFORD	1	MITCHELL R.R. 2		
Equipment Operator	RAY E. ALFORD	I	License:		
Construction Details					
Well	Use: HOME	I	Orilling method: CABLE TO	OL Pump type:	
	Depth: 175.0	į.	oump setting depth:	Water quality	;
Casing Screen	Length: 49.0 Length:		Material: Material:	Diameter: 6.6 Diameter: Slo	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 70.0		te: 0.5 gpm for hrs.
Grouting Information	Material: Installation Method:			Depth: from to Number of bags used:	
Well Abandonment	Sealing material: Installation Method:			Depth: from to Number of bags used:	
Administrative	County: LAWRENCE Section: NW 1/4 of the		the NE 1/4 of Section 4	Township: 4N Range:	1W Topo map: BEDFORD WEST
	Field located by: PW			on: Tue, Aug 17, 1971	
	Courthouse location b	ıy:		on:	
	Location accepted w/o	verificatio	on by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL: 1200		Ft N of SL:	Ft E of WL:	Ft S of NL. 1500
	Ground elevation: 615	50	Depth to bedrock: 49.0	Bedrock elevation: 566.0	Aquifier elevation:
	UTM Easting: 541589	0		UTM Northing: 42959	80 0
Well Log	Тор	Bottom	Formation		
	O O	49 0	SOIL & CLAY		
	49.0	67 0	GRAY LIME		
	67.0	72.0	BR LIME		
	72.0	108 0	WHLIME		
	108-0	1750	GRAY LIME		
Comments	MC 565;				

## 93

#### Indiana Department of Natural Resources

Reference Number	Driving directions to we	eu ·	· ····································	and non triproge defidences	Date completed
219754	SW OF BEDFORD IND	ON SR 50	ABOUT 2MI AFTER TURNI	NG W OF 37&50	Tue, Sep 01, 1959
Owner-Contractor	Name	Ada	Iress		Telephone
Well Owner	EARVIN AND THELM. MEADOWS	AW RR	1 BOX 234 BEDFORD, IND.		•
<b>Building Contractor</b>					
Drilling Contractor			. 6 BOX 13 BEDFORD IND.		
Equipment Operator	ERIC BUCYRUS	Lice	ense:		
Construction Details					
Well	Use: HOME	Dril	lling method: CABLE TOOL	Pump typ	e:
	Depth: 210.0	Pun	np setting depth:	Water que	ality:
Casing	Length: 63.3		erial:	Diameter:	
Screen	Length:	Mai	erial:	Diameter.	· Slot size:
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTe	st rate: 2.0 gpm for 1.0 hrs.
	Drawdown: ft.		Static water level: 90.0 ft.		
Grouting Information	Material:		De	pth: from to	
	Installation Method:		Nu	mber of bags used:	
Well Abandonment	Sealing material: Installation Method:			pth: from to mber of bags used:	
Administrative	County: LAWRENCE	*****		Township: 4N Ra	•
	Section: SW 1/4 of the N		ie SE 1/4 of Section 4	5	Topo map: BEDFORD WEST
	Field located by: BARNE	23		on: Fn. Jul 01, 19	60
	Courthouse location by:		L	on:	
	Location accepted w/o ve	erijication i	y:	on:	
	Subdivision name: Ft W of EL: 2250		Ft N of SL: 1600	Lot number: Ft E of WL:	Es C of NI .
	Ground elevation: 595.0		Depth to bedrock:	Bedrock elevation	Ft S of NL: Aquifier elevation:
	UTM Easting: 541272.0		Depin to bear ock.	L I'M Northing: 4	
			<u>.</u>		
Well Log	£	ottom	Formation		
		0.0	DIRT	CAL LINERUSE	1.
		0 0 55 n		.FYE TLOFMUDHOU	c
		55 0 65.0	HARD WH LIME		
		90.0	SOFT BLUE LIME HARD BLUE LIM		
	190 0 19	95.0	SOFT BLUE LIME		

HARD BLUE

Comments

210.0

VC LOC ACCEPTED W/O VERIF NO:

#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number	Driving directions to we	ell .		Date completed
219759	GOING NORTH ON HI TURN LEFT IST ROA	IGHWAY 37 & 50 AT JUNCTION, SOUTH OF WHITE RIVER ID APPROX. 1/4 MI		Wed, Sep 21, 1966
Owner-Contractor Well Owner	<i>Name</i> BILL BUCK	Address		Telephone
Building Contractor  Drilling Contractor	LOUIE O. SMITH	R #1, BEDFORD		
Equipment Operator	L. O. SMITH	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABL	E TOOL Pump type:	•
	Depth: 150.0	Pump setting depth:	Water qual	•
Casing Screen	Length: 54.0 Length:	Material: Material:	Diameter: . Diameter: .	••
Well Capacity Test	Type of test:	Test rate: gpm f		t rate: 2.0 gpm for 3.0 hrs.
	Drawdown: ft.	Static water leve	d: 75.0 ft.	
Grouting Information	Material:		Depth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 4N Ran	
	Section: NW 1/4 of the I	NE 1/4 of the NE 1/4 of Section	4	Topo map: BEDFORD WEST
	Field located by: PW		on: Mon, Aug 17, 1	970
	Courthouse location by:		on:	
	Location accepted w/o v	erification by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL: 850	Ft N of SL:	Ft E of WL:	Ft S of NL: 100
	Ground elevation: 600.0	Depth to bedrock: 1	5 0 Bedrock elevation: 585 0	Aquifier elevation:
	UTM Easting: 541728.0		UTM Northing: 429	96419 0
Well Log	Тор Е	Bottom Formatio	n	
· · · · · · ·		Α		

BLANK

MC585; VERIFIED BY BUILDER, MC

#### **Indiana Department of Natural Resources**

Reference	Number
32017	0

Driving directions to well

Date completed

Telephone

.5 MI S OF JCT 50 & 37 ON HWY37, LT ON WESLYN CHURCH, GO .5 MI E ACROSS RR Fri, Nov 06, 1992

TRACKS, 3RD HOUSE ON RT

Owner-Contractor

Well Owner **Building Contractor** 

**Drilling Contractor Equipment Operator**  Name **BEN GRIMES** 

DEXTER

S&S DRILLING INC.

**SWARTZENTRUBER** 

Address

904 BROOK ST., MITCHELL, IN 47446

RI MONTGOMERY, IN 47558

**Drilling method: ROTARY** 

Pump setting depth:

License: 302

Construction Details

Well

Casing

Screen

Use: HOME Depth: 180.0 Length: 55.0 Length: 140.0

Material: PVC Material: PVC Pump type: Water quality:

Diameter: 6.0 Diameter: 4 5 Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: 7.0 gpm for hrs. Static water level: ft

BailTest rate: gpm for hrs.

Grouting Information

Material: BNSL

Installation Method: PUMP

Depth: from 55 0 to 0.0 Number of bags used: 2.0

Well Abandonment

Sealing material: Installation Method:

Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: 1/4 of the 1/4 of the 1/4 of Section 3

Township: 4N Range: 1W

Topo map: BEDFORD EAST

Field located by: on: Courthouse location by: on: Location accepted w/o verification by: on:

Subdivision name:

Ft W of EL:

Ft N of SL:

Lot number: Ft E of WL:

Ft S of NL:

Ground elevation: UTM Easting:

Depth to bedrock:

Bedrock elevation:

Aquifier elevation:

UTM Northing:

Well L

l Log	Гор	Bottom	Formation
	0.0	15 0	CLAY
	15.0	16 0	LS
	16.0	23 ()	(IREEN SH
	23 0	34 ()	LS
	34 0	38 ()	SOFT GRAY SH
	38.0	44 0	LS
	44 0	47 11	FRACTURED LIME/MUDDY CLAY
	57.0	91 n	LANTIME
	91.0	6.5	ERACTURED LIME
	93.0	11: 1	BRNIME -
	1100	1,50	DOMITETIME
	1150	Çr ş	N LIME

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

220473

APP T MI SE OF BEDFORD IN ON WHITE RIVER KNOWN AS DUNCAN BEND

Sat, Jan 21, 1967

Telephone

Owner-Contractor Well Owner

Name **GENERAL J HALE**  Address

BEDFORD RR 5

**Building Contractor Drilling Contractor** 

**EUGENE & CHARLES** 

ERNIE UMPHRESS & SONS BEDFORD IN RR6

**Equipment Operator** 

UMPHRESS

License:

Construction Details

Well

Use: OTHER Depth: 150.0

Drilling method: Pump setting depth: Pump type: Water quality:

Casing Screen

Length: 33.5 Length:

Material: Material: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test:

Test rate: gpm for hrs.

BailTest rate: 0.1 gpm for hrs.

Drawdown: ft.

Static water level: 75.0 ft.

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: In stallation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the SW 1/4 of the NE 1/4 of Section 6

Township: 4N Range: 1E

on: Mon, Aug 16, 1971

Topo map: BEDFORD EAST

Field located by: PJ

Courthouse location by:

Location accepted w/o verification by:

on:

on:

Subdivision name:

Ft W of EL: 2200

Ft N of SL:

Lot number: Ft E of WL:

Ft S of NL: 1550

Ground elevation: 540.0

Depth to bedrock: 8.0

Bedrock elevation:

532.0

Aquifier elevation:

UTM Easting: 548019 0

UTM Northing: 4296047.0

Well Log

Тор	Bottom	Formation
0.0	8 0	DIRT
8 0	120	GRAY LS HARD
12.0	28 0	BROKEN LS SOFT
28.0	33 0	BLUE LS HARD
33.0	150,0	<b>BLUE SH SOFT</b>

Comments

MC 530: VERIFIED BY NEIGHBOR



#### **Indiana Department of Natural Resources**

Reference	Number
22047	10

Driving directions to well

Date completed

220478

WELL IS 5-1/2 MILES SE OF BEDFORD AND 1/4 MI W OF TUNNELTON ROAD, 33 FT.

NW OF BARN

Thu, Oct 12, 1961

Owner-Contractor Well Owner

Name WM. DUNCAN Address R 5, BEDFORD IN Telephone

**Building Contractor Drilling Contractor Equipment Operator** 

ERNIE UMPHRESS & SONS RR 6, BEDFORD IN

ERNIE UMPHRESS & SONS License:

Construction Details

Well

Use: HOME Depth: 112.0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen Length: 51.0 Length:

Pump setting depth: Material: Material:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 32.0 ft. BailTest rate: 0.02 gpm for 1.0 hrs.

Grouting Information

Well Abandonment

Material:

Installation Method:

Depth: from to Number of bags used:

Sealing material: Installation Method:

Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the SE 1/4 of the NE 1/4 of Section 6

Field located by: JVH

Courthouse location by: Location accepted w/o verification by:

Subdivision name:

Ft W of EL: 100

Ft N of SL:

Lot number: Ft E of WL:

on:

Ft S of NL: 1800

Topo map: BEDFORD EAST

Ground elevation: 520.0 UTM Easting: 548642.0 Depth to bedrock: 50.0

Bedrock elevation Aquifier elevation:

UTM Northing: 4293972.0

Township: 4N Range: 1E

on: Mon, Aug 01, 1966

Well Log

**Bottom** Formation Lop 0.0 0.0 **BLANK** 

Comments

MC470



Reference Number	Driving directions to	well	pijasten palatur deputury degti. Alep no v Ballegardio Advertur 16v c half dibitatua	t unifor in 1866 – 3 lipilitis portu di californida es la	Date completed
217373	FROM FAYETTEVI HOUSE.	ILLE ON 58 E	E, IST RD TO R. TURN R ON N	EXT RD, 1ST FARM	Sat, Jul 01, 1950
Owner-Contractor Well Owner	<i>Name</i> HALE HALL		ddress 2, BEDFORD		Telephone
Building Contractor  Drilling Contractor	LOUIE O. SMITH	R#	1, BEDFORD		
Equipment Operator	LOUIE O. SMITH	Lie	cense:		
Construction Details					
Well	Use: HOME	Dr	illing method: CABLE TOOL	Pump type:	
	Depth: 179.0		mp setting depth:	Water qualit	=
Casing Screen	Length: 24.5 Length:		nterial: nterial:	Diameter: 6. Diameter: Si	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 117.0 ft.	BailTest i	rate: 3 0 gpm for hrs.
Grouting Information	Material: Installation Method:		•	th: from to	
Well Abandonment	Sealing material: Installation Method:		•	th: from to nber of bags used:	
Administrative	County: LAWRENCE Section: SW 1/4 of th		the NE 1/4 of Section 24	Township: 5N Range	e: 2W  Topo map: BEDFORD WEST
	Field located by: BA			on: Fri, Jul 01, 1960	
	Courthouse location			on:	
	Location accepted w/	-	bv:	on:	
	Subdivision name:	<b></b>		Lot number:	
	Ft W of EL: 2400		Ft N of SL:	Ft E of WL:	Ft S of NL: 800
	Ground elevation: 60	n n	Depth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting:		Depin to bearock.	UTM Northing:	Aquijier elevision.
Well Log	Тор	Bottom	Formation		
	00	22.0	RED CLAY		
	22 0	65 0	WHIME		
	65 0	85.0	WH HARD LIME		
	85.0	105.0	GRAY SOFT LIME		
	105 0			•	
		110.0	WHILIME		
	110 0 125 0	125.0 179.0	GRAY SOFT LIME WH AGR LIME		
_		177.0	"II AON LIME		
Comment	MC:	-			

#### Record of Water Well

Reference Number	Driving direction	s to well	THE ROLL PROPERTY SECTION STORY AND ADDRESS OF THE AND ADDRESS OF THE ADDRESS OF	Date completed
217523	3 MI E OF FAYE	TTEVILLE ON I	BUTTERFLY LANE, E SIDE.	Wed, Jun 05, 1963
Owner-Contractor Well Owner	<i>Name</i> MARVEL MAY		dress #2, BEDFORD IN	Telephone
Building Contractor Drilling Contractor	PAUL STULTZ	143	20 W 14TH ST, BLOOMINGTO	ON IN
Equipment Operator	OREN LAKE		ense:	
Construction Details				
Well	Use: HOME	Dri	illing method: CABLE TOOL	Pump type:
	Depth: 149.0	Pui	mp setting depth:	Water quality:
Casing Screen	Length: 72.3 Length:		terial: terial:	Diameter: 6.0 Diameter: Slot size:
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 80.0 ft.	BailTest rate: 60.0 gpm for hrs.
Grouting Information	Material:		De	pth: from to
	Installation Metho	od:	Nu	mber of bags used:
Well Abandonment	Sealing material:		•	pth: from to
	Installation Metho	od:	Nu	mber of bags used:
Administrative	County: LAWREN			Township: 5N Range: 2W
			e SE 1/4 of Section 13	Topo map: BEDFORD WE
	Field located by: \			on: Tue, Oct 01, 1963
	Courthouse location	•		on:
	Location accepted	•	by:	on:
	Subdivision name.	•		Lot number:
	Ft W of EL: 1400		Ft N of SL: 330	Ft E of WL: Ft S of NL:
	Ground elevation: UTM Easting: 536		Depth to bedrock:	Bedrock elevation: Aquifier elevation:  UTM Northing: 4301260 0
	O I M Lasting.	1024 0		
Vell Log	Тор	Bottom	Formation	
	0 0	72 0	DIRT & BROKEN	STONE
	72.0	149.0	MD GREY STONE	



#### Indiana Department of Natural Resources

Reference Number	Driving directions to	well	Date completed				
217528	3 MI E OF FAYETTEVILLE IN, ON THE BUTLER FLY LANE. IST R, W SIDE ON STILTS. Sat, May 25, 1963						
Owner-Contractor Well Owner	<i>Name</i> KELSO FROST		lress #2, BEDFORD	Telephone			
Building Contractor Drilling Contractor	PAUL STULTZ	142	0 W 14TH ST, BLOOMINGT	ON IN			
Equipment Operator	OREN LAKE		ense:				
Construction Details							
Well	Use: HOME	Dri	lling method: CABLE TOOL	Pump type:			
	Depth: 156.0	Pun	np setting depth:	Water quality:			
Casing Screen	Length: 40 0 Length:		erial: erial:	Diameter: 6.0 Diameter: Slot size:			
Well Capacity Test	Type of test:		Test rate: gpm for hrs	BailTest rate: 240.0 gpm for hrs.			
	Drawdown: ft.		Static water level: 91.0 ft.				
Grouting Information	Material:		De	th: from to			
	Installation Method: Number of bags used:						
Well Abandonment	Sealing material:			Depth: from to			
	Installation Method:		Nı	imber of bags used:			
Administrative	County: LAWRENCE			Township: 5N Range: 2W			
	Section: SE 1/4 of the SW 1/4 of the SE 1/4 of Section 13			Topo map: BEDFORD WEST			
	Field located by: U			on: Tue, Oct 01, 1963			
	Courthouse location by:			on:			
	Location accepted w/o verification by:  Subdivision name:			on:			
				Lot number:			
	Ft W of EL: 1500		Ft N of SL: 100	Ft E of WL: Ft S of NL:			
	Ground elevation: 63	5 0	Depth to bedrock:	Bedrock elevation: Aquifier elevation:			
	UTM Easting: 53659	9.0		UTM Northing: 4301199 0			
Well Log	Тор	Bottom	Formation				
ū	00	40 0	BROKEN STONE	REDCLAY			
	40 0	156 0	GREY STONE				
Comments	40" RED CLAY & BF	ROKEN STON	F 117 GREY STONE MD STO	ONE FOR HARDNESS.			

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#### 1 460 1 01 1

#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

217533

FROM FAYETTEVILLE CHURCH OF CHRIST 1ST HOUSE SOUTH ON EAST SIDE OF

RD, 2 NEW HOUSE, SO RD

Sat, May 18, 1963

Owner-Contractor Well Owner

Name **ROSE ROBERTSON**  Address RR WILLIAMS, IN Telephone

**Building Contractor** Drilling Contractor **Equipment Operator** 

**LOUIE SMITH LOUIE SMITH**  RI BEDFORD License:

Construction Details

Well

Use: HOME Depth: 105.0 Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality: Diameter: 6.0 Diameter: Slot size:

Casing Screen Length: 83.0 Length:

Material: Material:

Type of test:

Drawdown: 5.0 ft.

Test rate: gpm for hrs. Static water level: 75.0 ft. BailTest rate: 2.0 gpm for 2.0 hrs.

Grouting Information

Well Capacity Test

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SE 1/4 of the SW 1/4 of the SW 1/4 of Section 13

Topo map: BEDFORD WEST

Aquifier elevation:

Field located by:

on:

Courthouse location by:

Location accepted w/o verification by:

Subdivision name

Ft N of SL: 330

on:

on: Tue, Oct 01, 1963

Township: 5N Range: 2W

Lot number:

Ft W of EL: Ground elevation: 635 0 UTM Easting: 535703 0

Depth to bedrock:

Ft E of WL: 1000 Ft S of NL.

Bedrock elevation: UTM Northing: 4301249 0

Well Log

Тор	Bottom	Formation
0.0	100	RED CLAY
10 0	20 0	BROKEN LS
20.0	40 0	LS
40 0	50 0	HARD LS
50-0	55.0	SOFT STONE
55.0	69 0	LS
60.0	75 0	SOFT SHELL
75.0	93.0	SOFT LIME
03.0	95 ()	BLANK
95 (1	103.0	LS
In o	105 0	SHELL

Comments

NE CHRO K

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

Telephone

217538

ABOUT .25MI W OF FAYETTEVILLE IN.

Wed, May 15, 1963

Owner-Contractor Well Owner **Building Contractor** 

Name JOHN WAY Address

RR2, BEDFORD

**Drilling Contractor Equipment Operator** 

**EUGENE & CHARLES** 

ERNIE UMPHRESS & SONS RR6, BEDFORD IN

Pump setting depth:

**UMPHRESS** 

License:

Construction Details

Well

Use: HOME Depth: 118.0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen

Length: 68.0 Length:

Material: Material: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft.

Test rate: gpm for hrs. Static water level: 78.0 ft. BailTest rate: 2.5 gpm for hrs.

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the SE 1/4 of the SW 1/4 of Section 13

Township: 5N Range: 2W

Topo map: BEDFORD

WEST

Field located by: PW

Courthouse location by: Location accepted w/o verification by: on: Thu, Aug 01, 1968

on: on:

Subdivision name:

Ft W of EL:

Ft N of SL: 800

Lot number:

Ft S of NI.:

Ground elevation: 600.0

Depth to bedrock: 65.0

Ft E of WL: 1600 Bedrock elevation:

Aquifier elevation:

UTM Easting: 535886.0

535.0

UTM Northing: 4301402.0

Well Log

Тор	Bottom	Formation	
0.0	5.0	DIRT	
5.0	65 0	BOULDERS MUD HOLES & STONH	
65.0	79 0	GRAY LS SOFT	
70 ()	97.0	BLUE LS SOFT	
97.0	101.0	BROKEN STONE SOFT	
0.10	115.0	GRAY LS SOFT	
115.0	1180	BROKEN STONE SOFT	

Reference Number	Driving directions to w	vell				Date completed	
217543	FROM FAYETTEVILLE GOING EAST .5 MI BEHIND CHURCH OF CHRIST CHURCH					Fri, Jun 03, 1966	
Owner-Contractor Well Owner	<i>Name</i> ALVAN ROLLINS		Address R2 BEDFORD			Telephone	
Building Contractor Drilling Contractor	LOUIE SMITH	ı	R1 BEDFORD				
Equipment Operator	LOUIE SMITH	1	License:				
Construction Details							
Well	Use: HOME	Drilling method: CABLE TOO					
	Depth: 125.0		Pump setting depth:		Water quality		
Casing Screen	Length: 13.0 Length:		Material: Material:		Diameter: 6.: Diameter: Sl		
Well Capacity Test	Type of test:	Test rate: gpm for hrs.		BailTest rate: 20.0 gpm for 2.0 hrs.			
	Drawdown: ft.		Static water level: 90.0	) ft.			
Grouting Information	Material:			Depth: from to			
	Installation Method:			Number of bags used:			
Well Abandonment				Depth: from to Number of bags	us>d:		
Administrative	County: LAWRENCE			Townsh	ip: 5N Range	: 2W	
	Section: NW 1/4 of the	f the SW 1/4 of Section 13		Topo map: BEDF WEST			
	Field located by: MI			on: Wed	on: Wed, Aug 18, 1971		
	Courthouse location by: Location accepted w/o verification by:			on:	on:		
				on:	on:		
	Subdivision name:			Lot num	ber.		
	Ft W of EL:		Ft N of SL: 900	•	WL. 1400	Ft S of NL:	
	Ground elevation: 610.0		Depth to bedrock: 10.0	600 0	elevation:	Aquifier elevation:	
	UTM Easting: 535820.	D		UTM No	orthing: 4301	463.0	
Well Log	Тор	Bottom	Formation				
	00	10.0	CLAY				
	10.0	35.0	HARD LIME				
	35 0	92.0	LIME				
•	92 0	125.0	SOFT LIME				
Comments	MC600; VERIFIED BY	OWNED					
percentage to t	erecon, commence						



# Record of Water Well

Reference Number	Driving directions to wel			Date completed			
217548	FROM FAYETTEVILLE	FROM FAYETTEVILLE, GO EAST TO 1ST RD TO RIGHT. 2ND HOUSE ON RIGHT Wed, Aug 10,					
Owner-Contractor Well Owner	<i>Name</i> MRS. OPAL EMPSON	Address R1 WILLIAMS, IN		Telephone			
Building Contractor  Drilling Contractor	LOUIE SMITH	R1 BEDFORD					
Equipment Operator	LOUIE SMITH	License:					
Construction Details							
Well	Use: HOME	Drilling method: CABLE					
C:	Depth: 90.0 Length: 26.0	Pump setting depth: Material:	Water qua Diameter:	•			
Casing Screen	Length:	Material:	Diameter: Diameter:				
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for Static water level:		t rate: 3.0 gpm for 1.0 hrs.			
Grouting Information	Material:		Depth: from to				
	Installation Method:		Number of bags used:				
Well Abandonment	Sealing material: Installation Method:		Depth: from to Number of bags used:	·			
Administrative	County: LAWRENCE		Township: 5N Ran	=			
		V 1/4 of the SE 1/4 of Section 13		Topo map: BEDFORD WES			
	Field located by: S&H		on: Wed, Nov 02,	1960			
	Courthouse location by:		on:				
	Location accepted w/o ve	rification by:	on:				
	Subdivision name:		Lot number:				
	Ft W of EL: 1900	Ft N of SL: 1600	Ft E of WL:	Ft S of NL:			
	Ground elevation: 615.0	Depth to bedrock	Bedrock elevation:	Aquifier elevation:			
	UTM Easting: 536466.0		UTM Northing: 43	01669.0			
Well Log	Тор В	ottom Formation					
	0.0 24	0.0 CLAY					
	24.0 28	3.0 LIME					
	28.0 33	2.0 SHELL					
	32.0	5.0 LIME					
	35.0 49	0.0 LIMF					
	49.0 50	0.0 SEAM					
	50.0 51	.0 LIMF					
	51.0 50	2.0 SEAM					
	52.0 55	5.0 LIME					
	55.0 60	0.0 SHELL					
		5.0 LIME					
	60.0	5.0 UME 0.0 SHFL					

# Record of Water Well

Reference Number	Driving directions to well	codes not should be passively to the di-	and to diff distance ) publican	, year B. No. Methodolerine . Sedan selder ride . Shadpada	Date completed
217553	ABOUT 5 MI W ON SR IS	8 AT 537 W & 50N &	15 RODS W. FA	YETTEVILLE AREA.	Thu, Apr 25, 1968
Owner-Contractor Well Owner	Name MR. JAMES M. CANADA	<i>Address</i> RR1, WILLIAMS	IN		Telephone
Building Contractor Drilling Contractor	MUMMA DRLG INC.	WASHINGTON &	LYONS IN		
Equipment Operator	DEAN K. MUMMA	License:			
Construction Details					
Well	Use: HOME	Drilling method:	OTHER	Pump type:	
	Depth: 130.0	Pump setting dept	h:	Water quality	):
Casing Screen	Length: 35.0 Length:	Material: Material:		Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs.  Static water level: 60.0 ft.		ate: 5.0 gpm for 1.5 hrs.
Grouting Information	Material: Installation Method:		Depth: from to  Number of bags used:		
Well Abandonment	Sealing material: Installation Method:		<del>-</del>	th: from to ther of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range	
	Section: SW 1/4 of the SW	1/4 of the NE 1/4 of Se	ction 13		Topo map: BEDFORD WEST
	Field located by: PW			on: Wed, Aug 18, 197	
	Courthouse location by:			on:	
	Location accepted w/o verij	ification by:			
	Subdivision name:			Lot number:	
	Ft W of EL: 2300	Ft N of SL: 27	700	Ft E of WL:	Ft S of NL:
	Ground elevation: 620 0	Depth to bedro	ock: 34 0	<b>Bedrock elevation:</b> 586.0	Aquifier elevation:
	UTM Easting: 536345 0			UTM Northing: 43020	010.0
Well Log	Тор Воц	om For	mation		
	0.0 34 0	CL	AY & BOULDER	.s	
	34.0 105	0 LIN	IE & BREAKS &	SHALE	
	105 0 130	0 SA	NDY LIME WAT	ER	
Comments	MC 585; VERIFIED BY OV	VNER PHILS IRON O	.5, HARDNESS 2	23 GRAINS; SEE MAP;	make now a succession of the succession of

Reference Number	Driving directions to well		Da	tte completed	
217558	TAKE 16TH ST RD W OF	BEDFORD, 1.5MI W EUREKA TO	T RD .5 MI N OF T RD. Th	Thu, Apr 17, 1969	
Owner-Contractor Well Owner Building Contractor	<i>Name</i> CHARLES H. EAGAN	Address SPRINGVILLE IN	Те	lephone	
Drilling Contractor	JOHN REYNOLDS & SON INC.	816 W MAIN ST, PAOLI IN			
Equipment Operator	WENDELL NEWLIN&DO CALLAHAN	N License:			
Construction Details					
Well	Use: HOME	Drilling method: OTHER	Pump type:		
	Depth: 140.0	Pump setting depth:	Water quality:		
Casing Screen	Length: 65.0 Length:			<b>::</b>	
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs.  Static water level: 60.0 ft	<b>BailTest rate</b> : 4 t.	.0 gpm for hrs.	
Grouting Information	Material: Installation Method:		Depth: from to Number of bags used:		
Well Abandonment	Sealing material: Installation Method:		Depth: from to Number of bags used:		
Administrative	County: LAWRENCE	/4 of the NW 1/4 of Section 12	Township: 5N Range: 2W	Topo map: OOLITIO	
	Field located by: PW	74 Of the 1447 174 of Section 12	om. Wed Aug 19 1071	Topo map. OOLITI	
	Courthouse location by:		on: Wed, Aug 18, 1971 on:		
	Location accepted w/o verij	ication by:	on:		
	Subdivision name:		Lot number:		
	Ft W of EL:	Ft N of SL:	Ft E of WL: 1700	Ft S of NL: 2500	
	Ground elevation: 700 0	Depth to bedrock: 7 0	Bedrock elevation: 693 0	Aquifier elevation	
	UTM Easting: 535911 0		UTM Northing: 4303673 0	• •	
Vell Log	Тор Вон	om Formation			
	0.0 7 0	CLAY			
	70 150	LS			
	15.0 25.0	SOFT STONE			
	25.0 45.0	BROKEN STONI	STONE & MUD		
	45.0 55.0	LIME			
	55.0 115	BUFF COLORED	LIME		
	115.0 120	HARD LIME			
	120 0 140		NG SHALE & PORUS LI		
Comments	MC 695, VERIED 184 OV	N. I.			

#### Indiana Department of Natural Resources

Reference Number 217563

Driving directions to well

Date completed

W OUT OF BEDFORD, 16TH ST TOWARD FAYETTEVILLE TURN R GO N 2.5 MI, TURN Mon, Dec 03, 1973 R IST HOUSE ON R.

Owner-Contractor Well Owner **Building Contractor**  Name DOUG KELLY FORREST LAKE **JOHN REYNOLDS & SONS** INC.

Address RR2, BEDFORD IN RR2, BEDFOR IN 816 W MAIN ST, PAOLI IN Telephone

**Drilling Contractor** Equipment Operator

**GORDON BURTON** 

License:

Material:

Construction Details

Well Casing Use: HOME Depth: 130.0 Length: 114.0

Length:

Drilling method: OTHER Pump setting depth: Material:

Water quality: Diameter: 6.62 Diameter: Slot size:

Pump type:

Well Capacity Test

Screen

Type of test: PUMPING Drawdown: 40.0 ft.

Test rate: 15.0 gpm for hrs. Static water level: 70.0 ft.

BailTest rate: gpm for hrs

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

on:

on:

Administrative

County: LAWRENCE

Section: NW 1/4 of the NE 1/4 of the NW 1/4 of Section 12

Field located by: JRD

Courthouse location by: Location accepted w/o verification by:

Subdivision name:

UTM Easting: 535961 0

Ft W of EL: Ground elevation: 685.0 Ft N of SL:

Lot number: Ft E of WL: 1750

Ft S of NL: 100 Aquifier elevation:

Topo map: OOLITIC

Depth to bedrock: 100

Bedrock elevation. 675 0 UTM Northing: 4304386 0

Township: 5N Range: 2W

on: Tue, Aug 08, 1978

Well Log

fop	Bottom	Formation	
() ()	100	CLAY	
10.0	25 0	LS & BROKEN ROCK	
25.0	30.0	SHELL	
30.0	35 0	LIME	
<b>&gt;</b> 0	45.0	CAVE	
.50	75.0	LS	
<b>&gt;</b> ()	80 0	BROKEN ROCK & MUD	
.1.	100 0	LS	
ят ()	103.0	BROKEN ROCK	
• ()	107 0	CAVE	
* (1	125 0	LS	
1	127 0	SHELI.	
	130 0	LIME	

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

217568

GO W TO CROOSRDS AT FAYETTEVILLE-TURN R(N) THEN GOTO NEXT CROSSRDS. Fri, Mar 08, 1974

TURN L(W). HOUSE TRAILER IN THE FIELD.

Owner-Contractor Well Owner

RICHARD PIERCE

Address RR#2, BEDFORD IN Telephone

**Building Contractor Drilling Contractor** 

JOHN REYNOLDS & SONS INC.

816 W MAIN ST, PAOLI IN

**Equipment Operator** 

**GORDON BURTON** 

Construction Details

Well

Use: HOME Depth: 143.0 Drilling method: OTHER Pump setting depth:

Pump type: Water quality: Diameter: 6.62 Diameter: Slot size:

Casing Screen

Length: 61.0 Length:

Material: Material:

Well Capacity Test

Type of test: PUMPING Drawdown: 73.0 ft.

Test rate: 11.0 gpm for hrs. Static water level: 70.0 ft.

BailTest rate: gpm for hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the NW 1/4 of the NW 1/4 of Section 12

Township: 5N Range: 2W

Topo map: OOLITIC

Field located by: JRD

Courthouse location by:

on: Tue, Aug 08, 1978 on:

Location accepted w/o verification by:

on: Lot number:

Subdivision name:

Ft W of EL:

Ft N of SL:

Ft E of WL: 400

Ft S of NL: 300 Aquifier elevation:

Ground elevation: 690.0 UTM Easting: 535534.0

Depth to bedrock: 100

Bedrock elevation: 680.0

UTM Northing: 4304338 0

Well Log

Тор	Bottom	Formation
0.0	10.0	CLAY
10.0	15.0	18
15.0	20.0	SHFLL.
20.0	25 0	LIME
25.0	47.0	BPOKEN ROCK & MUD
47.0	50.0	LIME
50.0	55 0	MR D
55.0	100.0	LIME
100.0	105.0	11611
105.0	143.0	AM

Commeri

MC 680; OWNER VERIFIED/50 W OF TRASE --

Reference Number	Driving direction	s to well			Date completed	
217573	FROM FAYETTE	FROM FAYETTEVILLE GOING EAST, TURN 1ST RD NORTH 4TH HOUSE ON LEFT Tue, Sep 17, 1963				
Owner-Contractor Weil Owner	<i>Name</i> JAMES CHASTA		Address R2 BEDFORD		Telephone	
Building Contractor Drilling Contractor	LOUIE SMITH		R1 BEDFORD			
Equipment Operator	LOUIE SMITH		License:			
Construction Details						
Well	Use: HOME	•	Drilling method: CABLE TOO	L Pump type:		
	Depth: 175.0		Pump setting depth:	Water quality:		
Casing Screen	Length: 40.0 Length:		Material: Material:	Diameter: 6.0 Diameter: Slot	size:	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 140.		e: 2.0 gpm for 2.0 hrs.	
Grouting Information	Material: Installation Metho	od:		Depth: from to Number of bags used:		
Well Abandonment	Sealing material: Installation Metho	od:		Depth: from to Number of bags used:		
Administrative	County: LAWREN		f the NW 1/4 of Section 12	Township: 5N Range:	2W Topo map: OOLITI	
	Field located by: 1	IVH		on: Mon. Aug 01, 1966		
	Courthouse locati			on:		
	Location accepted		on by:	on:		
	Subdivision name	-	<del>-</del>	Lot number:		
	Ft W of EL:		Ft N of SL:	Ft E of WL: 1000	Ft S of NL: 1800	
	Ground elevation:	730 0	Depth to bedrock:	Bedrock elevation: 690	•	
	UTM Easting: 535			UTM Northing: 430386		
Well Log	Тор	Bottom	Formation			
-	0.0	40 0	CLAY			
	40 0	580	LIME			
	58 0	89 0	HARD LIME			
	89 O	90 0	SOFT SEAM			
	90 0	1190	LIME			
	1190	121.0	BROKEN			
	121 0	175 0	LIME			

# Record of Water Well

Reference Number	Driving directions to w	rell		D	ate completed	
217578	GO TO BEDFORD- G	O OUT TOWARI	D FAYETTEVILLE	Mon, Jun 11, 1973		
Owner-Contractor Well Owner Building Contractor Drilling Contractor	<i>Name</i> WILLIAM WALKER	<i>Address</i> RR2 BE	DFORD, IN	$ au_{i}$	elephone	
Equipment Operator	GORDON BURTON	License:				
Construction Details						
Well	Use: HOME	_	method: OTHER	Pump type:		
	Depth: 123 0	-	tting depth:	Water quality:		
Casing Screen	Length: 95 0 Length:	Material Material		Diameter: 6.62 Diameter: Slot siz	e:	
Well Capacity Test	Type of test: Drawdown: ft		Test rate: gpm for hrs. Static water level: 80.0 f		00 gpm for hrs	
Grouting Information	Material: Installation Method:			Depth: from to Number of bags used:		
Well Abandonment	Sealing material: Installation Method:			Depth: from to Number of bags used:		
Administrative	County: LAWRENCE			Township: 5N Range: 2W		
	Section: NW 1/4 of the	NW 1/4 of the NI	E 1/4 of Section 12		Topo map: OOLITIC	
	Field located by: JRD			on: Wed, Aug 09, 1978		
	Courthouse location by	•		on:		
	Location accepted w/o v	erification by:		on:		
	Subdivision name:			Lot number:		
	Ft W of EL: 2600	Ft N	of SL:	Ft E of WL:	Ft S of NL: 50	
	Ground elevation: 660 (	) Dept	h to bedrock: 20 0	Bedrock elevation: 640 0	Aquifier elevation	
	UTM Easting: 536217 (	)		UTM Northing: 4304398 0	ı	
Well Log	Тор	Bottoin	Formation			
	00	20 0	CLAY			
	20 0	26 0	SS			
	26 0	VI 0	MUD			
	31 0	3 0	LS			
	43 0	18 0	MUÐ			
	48 0	o <b>8</b> ()	LS			
	68.0	1 0	SHALE			
			LS			
		110	L)			
	71 0	'10 '80				
	71 0 74 0	80	мир	& MUD		
	71 0 74 0 78 0	'S ()	MUD BROKEN ROCK	& MUD		
	71 0 74 0 78 0 90 0	80	мир	& MUD		

# Indiana Department of Natural Resources

Reference Number	Driving directions to well					Date completed	
317714	9 MI ON 158W RIGHT O WILLIAMS, IN	LD CRAGI	E MILL RD, FIRST HO	USE ON LT, R	12 BOX 442,	Sat, Apr 15, 1995	
Owner-Contractor Well Owner	<i>Name</i> KIM & JAY PHILLIPS	<i>Addre</i> RR1 E	ess BOX 442, WILLIAMS,I	N 47470		Telephone (812)279-6415	
Building Contractor  Drilling Contractor	PHILLIPS WELL DRILLI	NG RR12	BOX 624, BEDFORD,I	IN 47421		(812)279-4843	
Equipment Operator	JUNIOR PHILLIPS	-	License: 208		• •		
Construction Details							
Well	Use: HOME	Drillis	ng method: ROTARY		Pump type:		
	Depth: 140.0	Pump setting depth:			Water quali	ty: CLEAR, ODOR	
Casing Screen	Length: 30.0 Length:				Diameter: 6 Diameter: S		
Well Capacity Test	Type of test: AIR	-•		BailTest	rate: gpm for hrs.		
	Drawdown: ft.		Static water level: ft.				
Grouting Information	Material: BENT			Depth: from			
	Installation Method: PUM	P		Number of b	ngs used: 2.0		
Well Abandonment	Sealing material:			Depth: from			
	Installation Method:			Number of be	igs used:	,	
Administrative	County: LAWRENCE			Town	ship: 5N Rang		
	Section: 1/4 of the 1/4 of the Field located by:	e SE 1/4 of	e SE 1/4 of Section 13			Topo map: BEDFORD WES	
	Courthouse location by:	on:					
	Location accepted w/o veri	fication by:	•	on:			
	Subdivision name:			Lot no	umber:		
	Ft W of EL:	F	Ft N of SL:		of WL:	Ft S of NL:	
	Ground elevation:	D	Depth to bedrock: B		ck elevation:	Aquifier elevation:	
	UTM Easting:			UTM	Northing:		
Well Log	Тор Во	tom	Formation				
	0.0 2.0		TOPSOIL				
	2.0 8.0		CLAY				
	8.0 140	Λ.	BEDROCK				

Comments

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### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

Telephone

217377

ABOUT 2.5 MI OFF SR54 ON MILLRIDGE RD, W OF BEDFORD.

Fri, Jan 18, 1974

Owner-Contractor

Well Owner

**Building Contractor Drilling Contractor** 

Name **DICK JONES**  Address

**BEDFORD IN** 

JOHN REYNOLDS & SONS

RALPH BURTON&GORDON License:

816 W MAIN, PAOLI IN

**Equipment Operator** 

BURTON

**Construction Details** 

Well

Casing

Screen

Use: HOME Depth: 123.0

Length:

Length:

Drilling method: OTHER Pump setting depth:

Material: Material:

Pump type: Water quality:

Diameter: 6.62 Diameter: Slot size:

Well Capacity Test

Type of test: PUMPING

Test rate: -15.0 gpm for hrs.

BailTest rate: gpm for hrs.

Drawdown: ft.

Static water level: 70.0 ft.

**Grouting Information** 

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method:

Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the SW 1/4 of the SE 1/4 of Section 1

Township: 5N Range: 2W on: Tue, Aug 08, 1978

Topo map: OOLITIC

Field located by: JRD

Courthouse location by:

Location accepted w/o verification by:

on:

Lot number:

Subdivision name: Ft W of EL: 900

Ft N of SL: 100

Ft E of WL.

on:

Ft S of NL:

Ground elevation: 670.0

Depth to bedrock: 30 0

Bedrock elevation: 640 0

Aquifier elevation:

UTM Easting: 536326.0

UTM Northing: 4304446.0

Well Log

Тор	Bottom	Formation
0.0	30.0	CLAY & MUD
30.0	35.0	LIME
35 0	40.0	BROKEN ROCK & MUD
4() ()	45.0	LIME
45 ()	50.0	SHELL
50 ()	55.0	LIME
55.0	65.0	BROKEN ROCK & MUD
65.0	70.0	LIME
100	75.0	SHELL
"5 ()	80.0	LIME
Steff	90 0	SOFT FORM DEOS ENROCESANDO
oje G	105.0	LS
1 = 1	107 o	SHELL

marana popurament or marana mosconoco

# Record of Water Well

#### **Indiana Department of Natural Resources**

Reference Number	Driving directions to well	Driving directions to well				
217365	FROM BEDFORD GO S ON LOCATED JUST BEFORE YOU JIM GILBERT	Tue, Jan 01, 1980				
Owner-Contractor Well Owner Building Contractor	Name TINA SCHALER	Address BEDFORD IN 47421		Telephone		
Drilling Contractor	PHILLIPS WELL DRILLING	R#12 BOX 323A BEDFFOR	D IN 47421			
Equipment Operator	PHILLIPS WELL DRILLING	License:				
Construction Details						
Well	Use: HOME	Drilling method: ROTARY	Pump type: S	UBMERSIBLE		
	Depth: 97.0	Pump setting depth: 90.0	Water quality			
Casing Screen	Length: 30.0 Length:	Material: Material:	Diameter: 6.0 Diameter: Slot size:			
Well Capacity Test	Type of test: Test rate: gpm for h		hrs. BailTest rate: gpm for hrs.			
	Drawdown: ft.	Static water level: 35.	0 ft.			
Grouting Information	Material:		Depth: from to			
	Installation Method:		Number of bags used:			
Well Abandonment	Sealing material:		Depth: from to			
	Installation Method:		Number of bags used:			
.dministrative	County: LAWRENCE		Township: 5N Range:	ıw		
	Section: SE 1/4 of the NW 1/4	of the SE 1/4 of Section 34		Topo map: BEDFORD WEST		
	Field located by:		, on:			
	Courthouse location by:		on:			
	Location accepted w/o verificat	tion by: LW 3/20/86	on:			
	Subdivision name:		Lot number:			
	Ft W of EL:	Ft N of SL: 1750	Ft E of WL: 3300	Ft S of NL:		
	Ground elevation: 535.0	Depth to bedrock: 25 0	Bedrock elevation: 5100	Aquifier elevation:		

Well Log	Тор	Bottom	Formation
	0.0	25.0	REDCLAY
	25.0	97.0	BEDROCK

SEE COUTNY FILE FOR LOCATION INFOPage 9564

UTM Easting: 542926.0

UTM Northing: 4297103.0



The same to be stated to the same to the s

#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

217370

S ON OLD 37 S TO TURN ON LEATHER WOOD RD GO 1/4 MI S OF THE US 50 & SR 37

JUNCTION ON JIM GILBERTS OLD PLACE.

Wed, Jan 01, 1986

Owner-Contractor Well Owner

Name **TINA SCHALER**  Address

**BEDFORD IN 47421** 

Telephone

**Building Contractor Drilling Contractor Equipment Operator** 

PHILLIPS WELL DRILLING R #12 BOX 323A BEDFORD IN 47421

PHILLIPS WELL DRILLING License:

Construction Details

Well

Use: HOME Depth: 170.0 **Drilling method: ROTARY** 

Pump type:

Pump setting depth: Material:

Water quality: MUDDY & MUD

Casing Screen Length: 170.0 Length:

Material:

Diameter: 5.63 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 130.0 ft. BailTest rate: gpm for hrs.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method:

Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the NW 1/4 of the SE 1/4 of Section 34

Township: 5N Range: 1W

Topo map: BEDFORD

on:

Courthouse location by: Location accepted w/o verification by: LW 3/20/86

on: on:

Lot number:

Subdivision name: Ft W of EL:

Field located by:

Ft N of SL: 2050

Ft E of WL: 3900

Ft S of NL:

Ground elevation: 542.0

Depth to bedrock: 105 0

Bedrock elevation:

Aquifier elevation:

UTM Easting: 543151.0

UTM Northing: 4297133.0

Well Log

Top Bottom Formation 0.0 30.0 SAND 30.0 105 0 BLUE CLAY 105.0 170.0 BEDROCK

Comments

LOCATION INFO IN COUNTY FILE

# Record of Water Well

# Indiana Department of Natural Resources

Reference Number	Driving directions to wel	u			Date completed	
217375	GOTO 4 LANE SR ON 3	NE SR ON 37 ACROSS NEW BRIDGE & TURN R. TRAILER COURT ON R. Thu, Nov 02, 1972				
Owner-Contractor Well Owner	<i>Name</i> LEROY RAGSDALE	<i>Address</i> BEDFOR	DIN		Telephone	
Building Contractor  Drilling Contractor	JOHN REYNOLDS & SO	ONS 816 W M	AIN, PAOLI IN 47454			
Equipment Operator	GORDON BURTON	License:				
Construction Details						
Well	Use: PUBLIC SUPPLY	Drilling n	nethod: OTHER	Pump type:		
Depth: 63.0		_	ing depth:	Water quality	<b>:</b>	
Casing Screen	Length: 36.0 Length:	Material:	Material: Diameter: 6.6 Material: Diameter: Slo		52	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs.  BailTest rate Static water level: 15.0 ft.		ate: 30.0 gpm for hrs	
Grouting Information	Material: Installation Method:		Depth: from to  Number of bags used:			
Well Abandonment	Sealing material: Installation Method:			epth: from to umber of bags used:		
Administrative	County: LAWRENCE			Township: 5N Range	: IW  Topo map: BEDFORD	
	Section: NE 1/4 of the NE	1/4 of the SE 1/	4 of Section 34		WEST	
	Field located by: JRD			on: Fri, Aug 11, 1978		
	Courthouse location by:			on:		
	Location accepted w/o ver	rification by:		on:		
	Subdivision name:			Lot number:		
	Ft W of EL: 500	FIN	of SL: 2300	Ft E of WL: 4700	Ft S of NL:	
	Ground elevation: 525 0	Depth	to bedrock: 30 0	Bedrock elevation: 495.0	Aquifier elevation	
	UTM Easting: 543389 0		~	UTM Northing: 4297	194 ()	
Vell Log	Тор Ві	ottom	Formation		<del></del>	
	0.0	1	CLAY			
	4.0	0	SAND			
	30 0 41	()	LS			
	410 45	D	SHALE			

MC 405 OWNER VERHALD 100'S OF RD 150' SE OF BENCH MARK;

60

Comments

(n5.0)

VIC 730 Page 9569

105 0

121.5

# Record of Water Well

# Indiana Department of Natural Resources

Reference Number	Driving directions to we	શી		Date completed
217434	2MI NE OF BEDFORD TRAILER	IND IMIN ON MT PLESANT	RD & IMI E WELL IN BACK OF	Sat, Jul 27, 1963
Owner-Contractor Well Owner Building Contractor	<i>Name</i> ELMER ARNALD	Address BEDFORD R.R.		Telephone
Drilling Contractor	RAY E. ALFORD	MITCHELL IND. R.R. 2		
Equipment Operator	RAY E. ALFORD	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE	TOOL Pump type:	
	Depth: 121.5	Pump setting depth:	Water qual	-
Casing Screen	Length: 6.0 Length:	Material: Material:	Diameter: 6 Diameter: S	
Well Capacity Test	Type of test:	Test rate: gpm for	hrs. BailTest	rate: 0.05 gpm for hrs.
	Drawdown: ft.	Static water level:	ft.	
Grouting Information	Material:		Depth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Kang	re: IE Topo map:
	Section: NW 1/4 of the f	NE 1/4 of the SW 1/4 of Section 6		BARTLETTSVILLE
	Field located by: N		on: Tue, Oct 01, 196	53
	Courthouse location by:		on:	
	Location accepted w/o v	erification by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL:	Ft E of WL: 2000	Ft S of NL: 2600
	Ground elevation: 735 0	Depth to bedrock: 6	0 <b>Bedrock elevation.</b> 729 0	Aquifier elevation:
	UTM Easting: 547358 0		UTM Northing, 430	5321 0
Well Log	LopE	ottom Formation		
	00 6	0 CLAY		

GRAY & WH LS

NAB STONE SH, WATER VERYLITE

# **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

217385

300' W OF EAST FORK OF WHITE RIVER 200' S OF OLD SR37 BRIDGE ABUTMENT

APPROX. 3 MI S OF BEDFORD, IN ON LOT 14 OF RIVER HEIGHTS ADD. TO

LAWRENCE COUNTY

Wed, Apr 27, 1960

Owner-Contractor Well Owner

Name JERRY D. BECHNER Address

1622 18TH ST., BEDFORD

Telephone

**Building Contractor Drilling Contractor** 

ERNIE UMPHRESS & SONS RR6 BOX 13, BEDFORD, IN

**Equipment Operator** ERNIE UMPHRESS & SONS License:

Construction Details

Well

Use: HOME

Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen

Depth: 67.0 Length: 30.0 Length:

Pump setting depth: Material: Material:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 27.0 ft. BailTest rate: 10.0 gpm for 1.0 hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the SW 1/4 of the SW 1/4 of Section 34

Township: 5N Range: 1W

Topo map: BEDFORD WEST

Field located by: BARNES

on: Fn, Jul 01, 1960

Courthouse location by: Location accepted w/o verification by:

on:

Subdivision name:

Lot number:

Ft W of EL:

Ft N of SL: 1300

Ft E of WL: 1200 FIS of NL:

Ground elevation: 490.0

Depth to bedrock:

Bedrock elevation: Aquifier elevation:

UTM Easting: 542341.0

UTM Northing: 4296865 0

Well Log

Top	Bottom	Formation	
0 0	14.0	SANDY DIRT	
14-0	20.0	SHELL LS	
20.0	50.0	WHITE LIME HARD	
50 0	55.0	SS BROWN	
55 0	67 0	BLUE LS HARD	
MC			

118

Reference Number	Driving directions to well			Date completed
217390	WELL #1 S LAWRENCE W. BEDFORD IN.	37, S IF Fri, Jan 30, 1970		
Owner-Contractor Vell Owner	Name S LAWRENCE UTLS. INC.	Address HURON IN		Telephone
oulding Contractor Orilling Contractor	JOHN REYNOLDS & SONS INC.	816 W MAIN ST, PAOLI IN	1 47454	
quipment Operator	DON CALLAHAN	License:		
onstruction Details				
Vell	Use: PUBLIC SUPPLY	Drilling method: CABLE TO		ip type:
asing creen	Depth: 63 0 Length: 46.0 Length: 15 0	Pump setting depth: Material: Material:	Dia	er quality: meter: 12.0 meter: 12.0 Slot size: 25-30
ell Capacity Test	Type of test: PUMPING Drawdown: ft.	Test rate: 20.0 gpm f Static water level: 8.0		BailTest rate: gpm for hrs.
routing Information	Material: Installation Method:		Depth: from to Number of bags use	d:
'ell Abandonment	Sealing material: Installation Method:		Depth: from to Number of bags use	d:
dministrative	County: LAWRENCE Section: 1/4 of the 1/4 of the 1	/A of Section 34	Township: S	N Range: 1W
	Field located by:	74 Or Scenor S4	on:	Topo map: BEDFORD WES
	Courthouse location by:		on:	
	Location accepted w/o verifica	ution by:	on:	
	Subdivision name:	•	Lot number:	
	Ft W of EL:	Ft N of SL:	Ft E of WL:	Ft S of NL:
	Ground elevation:	Depth to bedrock:	Bedrock elev	_
	UTM Easting: 5422140		UIM Northi	ng: 4297273 0
'ell Log	Fop Bottom	r Formation		
	0 0 20 0	CLAY		
	20.0 26.0	BR SAND		
	26 0 30 0	MD SAND		
	30 () 34 0	S&G		
	34.0	GOOD S&G		
	38.0 47.0	FN S&G		
	4" () 56.0	FN S & SM M		
	58.0	GRAV & BRO	OKEN STONA	
	55 () 60 0	BROKENIS		
	60.0 63.0	SHALE GRAY	<b>\</b>	

# Record of Water Well

editable to a service of Northin C sensor	i. akut etaab da u kuupotaketapak pare	Date completed	
SR37, S OF BEDFORD IN	Tue, Mar 24, 1970		
255		Telephone	
ON IN.			
V MAIN ST, PAOLI IN 4745	4		
se:			
ng method: CABLE TOOL	Pump type:		
setting depth:	Water qual	ity:	
ial: ial:	Diameter:   Diameter:	2.0  2.0 <i>Slot size:</i> 25-30	
Test rate: 40.0 gpm for 24. Static water level: 8.0 ft.	0 hrs. BailTest	rate: gpm for hrs.	
-	oth: from to mber of bags used:		
_	oth: from to mber of bags used:		
NW 1/4 of Section 34	Township: 5N Rang	ge: 1W  Topo map: BEDFORD WEST	
	on: Mon, Jun 01, 19		
		,,,,	
	on:		
<b>:</b>	on:		
P 11 401 2202	Lot number:		
Ft N of SL: 2700	Ft E of WL: 200	Ft S of NL:	
Depth to bedrock:	Bedrock elevation:	Aquifier elevation: 420 0	
	UTM Northing: 429	77798.0	
Formation			
CLAY			
FN SAND BR IN C	OLOR		
SAND & CLAY MI	XED		
GRA\			
SAND			
CLAY & SAND MI	XED		
SAND	* *****		
OCCUP ACT			
	G001 &0		

# **Record of Water Well**

Reference Number	Driving directions to well		Date completed		
217844	NEAR WHITE RIVER BR	IDGE ON SR37 S OF BEDFORD IN	Tue, May 05, 1970		
Owner-Contractor	Name	Address	Telephone		
Well Owner	S LAWRENCE WATER UTLS. INC.	HURON IN			
Building Contractor	JOHN REYNOLDS & SOI	16			
Drilling Contractor	INC.	816 W MAIN ST, PAOLI IN			
Equipment Operator	DON CALLAHAN	License:			
Construction Details					
Well	Use: PUBLIC SUPPLY	Drilling method: CABLE TOOL			
Casing	Depth: 72 0 Length: 57.0	Pump setting depth: Material:	Water quality:		
Casing Screen	Length: 15.0	Material:	Diameter: 12.0 Diameter: 12.0 Slot size: 25-30		
Well Capacity Test	Type of test: PUMPING Drawdown: 40.0 ft.	Test rate: 140.0 gpm for Static water level: 8 0 ft	24.0 hrs. BailTest rate: gpm for hrs.		
Grouting Information	Material:	L.	Depth: from to		
	Installation Method:	۸	umber of bags used:		
Well Abandonment	Sealing material: Installation Method:		epth: from to umber of bags used:		
Administrative	County: LAWRENCE		Township: 5N Range: 1W		
	Section: SW 1/4 of the SW	1/4 of the NW 1/4 of Section 34	Topo map: BEDFORD WES		
	Field located by: STEEN		on: Mon, Jun 01, 1970		
	Courthouse location by:		on:		
	Location accepted w/o verif	ication by:	on:		
	Subdivision name:		Lot number:		
	Ft W of EL:	Ft N of SL: 2850	Ft E of WL: 350 Ft S of NL:		
	Ground elevation: 490 0	Depth to bedrock	Bedrock elevation: Aquifier elevation: 420 0		
	UTM Easting: 542075.0		UTM Northing: 4297306.0		
Vell Log	Top Bott				
	0 0 20 0	CLAY			
	20 0 25 0	FN SAND & BR I	N COLOR		
	25.0 28 0	SAND & CLAY M	IIXED		
	28 0 32 0	GRAV			
	32.0 35 0	SAND			
	35.0 38 0	CLAY & SINDA	IIXED		
	38 0 45 0	SAND			
	45.0 72.0	GOOD S&+			

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

217849

SR 37 S OF BEDFORD ON R AFTER CROSSING WHITE RIVER. NEXT TO RIVER IN VICINITY OF 1980 REYNOLDS TEST WELLS, TMB 8/17/83.

Mon, Jun 27, 1983

Owner-Contractor

Well Owner

Name S LAWRENCE WATER UTLS. INC.

Address

R2, MITCHELL IN 47446

Telephone

**Building Contractor Drilling Contractor** 

REYNOLDS SUPPLY INC.

PO BOX 230, 816 W MAIN ST, PAOLI IN 47454

**Equipment Operator** RALPH BURTON License:

Construction Details

Well Casing

Screen

Use: OTHER Depth: 88.0 Length: 68.0 Length: 20.0

Drilling method: REVERSE ROTARY Pump setting depth:

Material: Material:

Pump type: Water quality: Diameter: 20.0

Diameter: 18.0 Slot size: 60

Well Capacity Test

Type of test: PUMPING Drawdown: 7.25 ft.

Test rate: 250.0 gpm for 24.0 hrs. Static water level: 16.1 ft.

BailTest rate: gpm for hrs.

Grouting Information

Material .

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method:

Installation Method:

Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the SW 1/4 of the NW 1/4 of Section 34

Field located by: BRUNS

Courthouse location by: Location accepted w/o verification by:

Subdivision name:

Ft W of EL:

Ground elevation: 490 0 UTM Easting: 542139.0

Township: 5N Range: 1W

Topo map: BEDFORD WEST

on: Wed, Aug 17, 1983

on: on:

Lot number:

Ft E of WL: 550

Ft S of NL: 1700

Bedrock elevation: Aquifier elevation: 405 0

UTM Northing: 4297530.0

Well Log

Тор	Bottom	Formation
0.0	35.0	CLAY & SAND MIXED
35.0	40.0	FN SAND
40.0	45.0	CRS GRAV & SAND
45.0	50 0	CRS GRAV & SAND
50.0	55.0	CRS GRAV & SAND
55.0	60.0	CRS GRAV & SAND
60.0	65.0	CRS GRAV & SAND
65.0	70 0	CRS S&G
70.0	75 O	MD S&G
75.0	80 ti	MD S&G
80 0	<b>85</b> ()	FN SAND
85 0	87 ti	FN SAND & CLAY BOTTOM

Comments

MC 405; WELL #4 NPage 95th

Ft N of SL:

Depth to bedrock:

# Record of Water Well

12	Ind	iana Department of Natural Resources		
Reference Number	Driving directions to well	distribution and probability on host to grant to a distribute the	e e e e e e e e e e e e e e e e e e e	Date completed
217854		AFTER CROSSING WHITE RIVER. NEX TEST HOLES, TMB 8/17/83.	T TO RIVER IN	Fri, Jul 01, 1983
Owner-Contractor	Name	Address		Telephone
Well Owner	S LAWRENCE WATER UTLS. INC.	R2, MITCHELL IN 47446		
Building Contractor Drilling Contractor	REYNOLDS SUPPLY INC.	PO BOX 230, 816 W MAIN ST, PAOLI II	N 47454	
Equipment Operator	RALPH BURTON	License:		
Construction Details				
Well	Use: PUBLIC SUPPLY	Drilling method: REVERSE ROTARY	Pump type:	
	Depth: 87.0	Pump setting depth:	Water quali	ty:
Casing Screen	Length: 67.0 Length: 20.0	Material: Material:	Diameter: 2 Diameter: 1	0.0 8.0 <i>Slot size:</i> 60
Well Capacity Test	Type of test: PUMPING Drawdown: 7.7 ft.	Test rate: 250.0 gpm for 24.0 hrs. Static water level: 23.4 ft.	BailTest	rate: gpm for hrs.
Grouting Information	Material:	Depth: fro	m to	
	Installation Method:	Number oj	f bags used:	
Well Abandonment	Sealing material:	Depth: fro		
	Installation Method:	Number oj	f bags used:	
Administrative	County: LAWRENCE		wnship: 5N Rang	re: 1W
	Section: SE 1/4 of the SW 1/4	of the NW 1/4 of Section 34		Topo map: BEDFORD WEST
	Field located by: BRUNS	· on	: Wed, Aug 17, 19	983
	Courthouse location by:	on.	•	
	Location accepted w/o verifica	ation by: on.	<i>:</i>	
	Subdivision name:	Lo	t number:	
	Ft W of EL:	Ft N of SL: Ft	E of WL: 700	Ft S of NL: 2150
	Ground elevation: 490.0	Depth to bedrock: Be	drock elevation:	Aquifier elevation: 405.0
	UTM Easting: 542188.0	UT	M Northing: 429	73710

Well	Log
------	-----

Well Log	Тор	Bottom	Formation	
	0 0	35.0	CLAY & SAND MIXED	
	35 0	40.0	FN SAND	
	40.0	45 0	CRS GRAV & SAND	
	45 0	50.0	CRS GRAV & SAND	
	50 0	55.0	CRS GRAV & SAND	
	55 0	60.0	CRS GRAV & SAND	
	60 0	65.0	CRS GRAV & SAND	
	65.0	70 0	CRS S&G	
	70.0	75.0	MD S&G	
	75.0	80 0	MD S&G	
	80.0	85.0	FN SAND	
	85 0	88.0	FN SAND & CLAY BOTTOM	

MC 405  $\sim \epsilon$  A FION DECRIBED BY JOHN SCHMIDT FROM REYNOLDS  $O(\epsilon) = \epsilon$ Comments

# Record of Water Well

Reference Number	Driving directions to v	ven			Date completed
217859					Tue, Oct 21, 1980
Owner-Contractor	Name	Add	ress		Telephone
Well Owner	SOUTH LAWRENCE				
Building Contractor  Drilling Contractor	UTILITIES				
Equipment Operator	GENE WILLIAMS	Lice	ense:		
Construction Details					
Well	Use:		ling method:	Pump type:	
	Depth: 82.0		p setting depth:	Water quality	<i>::</i>
Casing Scr <del>ee</del> n	Length: Length:		erial: erial:	Diameter: Diameter: Slo	of size:
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 15 35 f		ate: gpm for hrs.
Grouting Information	Material:		D	epth: from to	
	Installation Method:		N	umber of bags used:	
Well Abandonment	Sealing material: Installation Method:			epth: from to umber of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range	: IW Topo map: BEDFORD
	Section: SE 1/4 of the S	SW 1/4 of the	NW 1/4 of Section 34	on:	WEST
	Field located by:				
	Courthouse location by Location accepted w/o		by: BRUNS	on: on: Tue, Jun 02, 1981	
	Subdivision name:		<b>,</b>	Lot number:	
	Ft W of EL:		Ft N of SL:	Ft E of WL: 675	Fi S of NL: 2075
	Ground elevation: 490	ο .	Depth to bedrock: 82 0	Bedrock elevation: 408 0	Aquifier elevation:
	UTM Easting: 542193.	0		UTM Northing: 4297	431 0
Vell Log	Гор	Bottom	Formation		·
	0.0	3 0	DK BRN , SIL TY	SANDY CLAY	
	3 0	13 0	M BRN SILLY (	LAY	
	130	18.0	M BRN SILTY.	SANDY CLAY	
	180	23.0	SAND		
	23 0	28.0	M SAND		
	28 0	38 0	M SAND		
	38 0	53.0	MISAND W/PEA	GRAVEL	
	53.0	63.0	MISAND		
	63.0	78 0	M TO C SANDA	V GRAVEL	

# **Record of Water Well**

Reference Number	Driving directions to	well	Construction and Code of the C	an to so se alles opressos à dolle	Date completed	
217864					Tue, Oct 21, 1980	
Owner-Contractor	Name	Address			Telephone	
Well Owner	SOUTH LAWRENCE UTILITIES					
Building Contractor Drilling Contractor	REYNOLDS SUPPLY	,				
Equipment Operator	GENE WILLIAMS	License:				
Construction Details						
Well	Use:	Drilling i	method:	Pump type:		
	Depth: 82.5	•	tting depth:	Water quality	y:	
Casing Screen	Length: Length:	Material. Material.		Diameter: Diameter: Sl	ot size:	
Well Capacity Test	Type of test: Drawdown: ft.		est rate: gpm for hrs. tatic water level: 15.58 ft		ate: gpm for hrs.	
Grouting Information	Material: Installation Method:			epth: from to umber of bags used:		
Well Abandonment	iealing material: Insiallation Method:			Depth: from to Number of bags used:		
Administrative	County: LAWRENCE Section: SE 1/4 of the	SW 1/4 of the NW	1/4 of Section 34	Township: 5N Range	: IW Topo map: BEDFORD WEST	
	Field located by:			on:		
	Courthouse location b	y:		on:		
	Location accepted w/o	=	RUNS	on: Tue, Jun 02, 1981		
	Subdivision name: RE			Lot number:		
	Ft W of EL:		of SL:	Ft E of WL: 700	Ft S of NL: 2125	
	Ground elevation: 490		h to bedrock: 83 0	Bedrock elevation: 407.0	Aquifier elevation:	
	UTM Easting: 542198	.0		UTM Northing: 4297	380.0	
Well Log	Тор	Bottom	Formation			
wen nog	0.0	3.0		N SANDY TOP SOI		
	3.0	13.0	M BRN SILIY (1			
	13.0	18.0	M. BRN, SANDY			
	18.0	23.0	NO RETURN PRO			
		28.0	BLANK			
	23.0 28.0	82.5	MED SAND			
Comments	CHEM. TEST; OW-3;			THE LEASE SHAWERS AND SPRINGERS & MAN		

Reference Number	Driving directions to we	ell		•	Date completed
217869	50'N OF OW-1 (80)				
Owner-Contractor	Name	Addre:	ss		Telephone
Well Owner	SOUTH LAWRENCE				•
Building Contractor Drilling Contractor	UTILITIES				
Equipment Operator	GENE WILLIAMS	Licens	e: 102080		
Construction Details					
Well	Use:		g method:	Pump type:	
C:	Depth: 84.0	•	setting depth:	Water qualit	y:
Casing Screen	Length: Length:	Materi Materi		Diameter: Diameter: Si	lot size:
Well Capacity Test	Type of test:		Test rate: gpm for hrs.		rate: gpm for hrs.
	Drawdown: ft.		Static water level: 15.24	ft.	
Grouting Information	Material:			Depth: from to	
	Installation Method:		۸	iumber of bags used:	
Well Abandonment	Sealing material:		L	Depth: from to	
	Installation Method:		λ	lumber of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range	
	Section: SE 1/4 of the SY	W 1/4 of the N	W 1/4 of Section 34		<i>Topo map:</i> BEDFORI WEST
	Field located by:			on:	
	Courthouse location by:			on:	
	Location accepted w/o v	•	BRUNS	on: Tue, Jun 02, 198	
	Subdivision name: REY  Ft W of EL:		N of SL:	Lot number: Ft E of WL: 700	Er C of Mr. 2176
	Ground elevation: 490.0		pth to bedrock: 84.0	Bedrock elevation: 406.0	Fi S of NL: 2175  Aquifier elevation:
	UTM Easting: 542198.0			UTM Northing: 4297	7333.0
Well Log	Top 8	Bottom	Formation		
		0.5	BRN SANDY TO	PSOIL	
	0.5	0.0	M BRN SAND/S	SILT CLAY	
	8.0	8 0	M BRN, SILTY	CLAY	
	18.0 2	3.0	SAND		
	23.0	4.0	M.C.SAND		
	25.0				

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Comments

Reference Number	Driving directions to we	ell			Date completed	
217909	W OF WHITE RIVER E FARM W OF TOOL SH		EAR SR37 & 50 2 MI S OF BI L	EDFORD, IN AT CATTL	E Fri, Oct 19, 1962	
Owner-Contractor Well Owner Building Contractor	<i>Name</i> BEN A. HITCHCOCK	<i>Add</i> 1625	iress 5 N ST., BEDFORD, IN		Telephone	
Drilling Contractor	ERNIE UMPHRESS & S	SONS RR6	BEDFORD, IN			
Equipment Operator	EUGENE & CHARLES UMPHRESS		nse:			
Construction Details						
Well			ling method: CABLE TOOL	Pump type:		
	Depth: 170.0		p setting depth:	Water quali	•	
Casing Screen	Length: 22.75 Length:		erial: erial:	Diameter: 6 Diameter: S		
Vell Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest	rate: 15.0 gpm for hrs.	
	Drawdown: st. Static water level: 94.0 st.					
Grouting Information	Material: Depth: from to					
	material: Installation Method:		· · · · · · · · · · · · · · · · · · ·	pth: from to imber of bags used:		
	· · · · · · · · · · · · · · · · · · ·					
Vell Abandonment	Sealing material:		De	pth: from to		
	Installation Method:		Nu	mber of bags used:		
dministrative	County: LAWRENCE Township: 5N Range: 1W					
	Section: NE 1/4 of the NW 1/4 of the SE 1/4 of Section 33				Topo map: BEDFORD WES	
	Field located by:			on: Tue, Oct 01, 196	3	
	Courthouse location by:			on:		
	Location accepted w/o verification by:			on:		
	Subdivision name:		Lot number:			
	Ft W of EL: 1500		Ft N of SL: 2100	Ft E of WL:	Ft S of NL:	
	Ground elevation: 590 0		Depth to bedrock:	Bedrock elevation:	Aquifier elevation:	
	UTM Easting: 541505 0			UTM Northing: 429	7121.0	
Vell Log	Тор В	lottom	Formation	· · · · · · · · · · · · · · · · · · ·		
	00 4	0	DIRT			
	4.0 2	3.0	BLUE LS & BOUL	DERS		
	23 0 3	0.0	BLUE LS HARD			
	30.0	0.0	BROWN LS SOFT			
	70.0 9	2.0	BLUE LS SOFT			
	92.0	04 0	BILUE SHALE SOF	т		
		18 0	GRAY LS HARD			
		65.0	BLUE LS HARD			
			BLUE SHALE SOF	_		
	165.0	70.0	ACTURE CHAIR COL			

#### Indiana Department of Natural Resources

Reference Number 217914
Owner-Contractor

FROM JCT 37 & 50 SOUTH OF BEDFORD GO NORTH 1ST RD ON LEFT AS OF NOW IS Wed, Mar 22, 1967 LAST HOUSE ON RIGHT

Date completed

-6- - - - -

Well Owner

Name JAMES DWYER

Driving directions to well

Address

Telephone

**Building Contractor Drilling Contractor** Equipment Operator

LOUIE O. SMITH LOUIE O. SMITH

R1 BEDFORD License:

Construction Details

Well

Use: HOME Depth: 135.0 Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality: Diameter: 6.25

Casing Screen

Length: 17.0 Length:

Material: Material:

Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 85.0 ft. BailTest rate: 2.0 gpm for 2 0 hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the SE 1/4 of the SE 1/4 of Section 33

Township: 5N Range: 1W

Topo map: BEDFORD

WEST on: Tue, Aug 17, 1971

Field located by: PW

Courthouse location by:

Location accepted w/o verification by: Subdivision name:

Ft N of SL: 100

Depth to bedrock: 16.0

on: on:

Lot number:

Ft E of WL:

Ft S of NL: Bedrock elevation:

Aquifier elevation:

Ground elevation: 6100 UTM Easting: 541627 0

Ft W of EL: 1100

UTM Northing: 4296463.0

Well Log

Тор	Bottom	Formation
0 0	15.0	CLAY
15 0	16.0	BLANK
16.0	35.0	LIME
35 0	44.0	SHELL
44.0	45.0	BLANK
45.0	135.0	MED LIME

Comments

MC595, VERTHED BY OWNEPage 9600

Reference Number	Driving directions to	well		Date completed	
217919	IST HOUE ON LEFT	AFTER CR	OSS RR AT COXTON		Fri, Jul 14, 1967
Owner-Contractor Well Owner	<i>Name</i> HARRY VOORHIES		idress I BEDFORD, IN		Telephone
Building Contractor  Drilling Contractor	LOUIE SMITH	R	BEDFORD		
Equipment Operator	LOUIE SMITH		cense:		
Construction Details					
Well	Use: HOME	Dı	illing method: CABLE TO	OL Pump type:	
	Depth: 80.0		mp setting depth:	Water quali	ty:
Casing Screen	Length: 20.0 Length:		aterial: aterial:	Diameter: 6 Diameter: S	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 10.0		rate: 1.0 gpm for 1.0 hrs.
Grouting Information	Material: Installation Method:			Depth: from to	
	instatiation Methoa:			Number of bags used:	
Vell Abandonment	Sealing material: Installation Method:			Depth: from to Number of bags used:	
Administrative	County: LAWRENCE			Township: 5N Rang	e: 1W
	Section: SW 1/4 of the NW 1/4 of the NE 1/4 of Section 31				Topo map: BEDFORD WEST
	Field located by: PW			on: Tue, Aug 17, 19	
	Courthouse location by	y:		on:	
	Location accepted w/o verification by:			on:	
	Subdivision name:			Lot number:	
	Ft W of EL: 2050		Ft N of SL:	Ft E of WL:	Ft S of NL: 850
	Ground elevation: 520	0	Depth to bedrock: 180	Bedrock elevation: 502.0	Aquifier elevation:
	UTM Easting, 538122	0		UTM Northing 429	7743 0
Vell Log	Гор	Bottom	Formation		
	0 0	180	CLAY		
	18.0	62 0	LIME		
	62.0	70 0	HARD LIME		
	70 0	80 0	MED LS		

Reference Number	Driving direction	ns to well			Date completed
217924	FROM FAYET	RR 2ND HOUSE ON LEFT	Tue, May 02, 1967		
Owner-Contractor	Name		Address		Telephone
Well Owner Building Contractor	MARY SHELP	,	RI BEDFORD		
Drilling Contractor	LOUIE SMITH		RI BEDFORD 🗻		
Equipment Operator	LOUIE SMITH	I	License:		
Construction Details					
Well	Use: HOME		Orilling method: CABLE TO		
<b>.</b> .	Depth: 109.0		Pump setting depth:	Water quality	
Casing Screen	Length: 66.0 Length:		Aaterial: Aaterial:	Diameter: 6.2 Diameter: Slo	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest r	ate: 1.0 gpm for 1.0 hrs.
	Drawdown: ft.		Static water level: 26.0	) ft.	
Grouting Information	Material: Installation Met	hod:		Depth: from to  Number of bags used:	
Well Abandonment	Sealing materia	l:		Depth: from to	
	Installation Method:			Number of bags used:	
Administrative	County: LAWRI	ENCE		Township: 5N Range	
	Section: SE 1/4	of the NW 1/4 of	the NE 1/4 of Section 31		Topo map: BEDFORE WEST
	Field located by: PW			on: Tue, Aug 17, 197	
	Courthouse loca	tion by:		on:	
	Location accepted w/o verification by:			on:	
	Subdivision nam	e:		Lot number:	
	Ft W of EL: 180	0	Ft N of SL:	Ft E of WL:	Ft S of NL: 1000
	Ground elevation	1: 520.0	Depth to bedrock: 20.0	Bedrock elevation: 500.0	Aquifier elevation:
	UTM Easting: 5.	38201.0		UTM Northing: 4297	687 0
Well Log	Тор	Bottom	Formation		
	0.0	20.0	CLAY		
	20.0	30.0	SOFT GRAY		
	30.0	35.0	SOFT BROWN	1	
	35.0	55.0	SOFT GRAY		
	55.0	65.0	SOFT BROWN	1	
	65.0	75 0	MED LS		

130

Reference Number	Driving directions t	Date completed			
217929	FROM FAYETTEV RIGHT IST HOUS	TO CATTLE YARD TURN	Thu, Mar 30, 1967		
Owner-Contractor Well Owner	<i>Name</i> DAVID INMAN		Address R1 BEDFORD, IN		Telephone
Building Contractor Drilling Contractor	LOUIE SMITH	1	R1 BEDFORD		
Equipment Operator	LOUIE SMITH		License:		
Construction Details					
Well	Use: HOME	1	Orilling method: CABLE TOO	Pump type:	
	Depth: 95.0	i	Pump setting depth:	Water quality:	•
Casing Screen	Length: 25.0 Length:		Material: Material:	Diameter: 6.2 Diameter: Slo	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.		te: 10.0 gpm for 1.0 hrs.
	Drawdown: ft.		Static water level: 58.0 (	īt.	
Grouting Information	Material:			Depth: from to	
	Installation Method	•	1	Number of bags used:	
Vell Abandonment	Sealing material:				
	Installation Method.	•	1	Number of bags used:	
dministrative	County: LAWRENC	E		Township: 5N Range:	
	Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 31				Topo map: BEDFORE WEST
	Field located by: PW			on: Tue, Aug 17, 1971	
	Courthouse location	•		on:	
	Location accepted w	o verificatio	on by:	on:	
	Subdivision name: Ft W of EL: 2200		Ft N of SL:	Lot number:	E+ 5 of NI . 2500
	Ground elevation: 55	50.0	Depth to bedrock: 200	Ft E of WL: Bedrock elevation:	Ft S of NL: 2500  Aquifier elevation:
	UTM Easting: 53807		_ 35 12 000,000. 20 0	530 0 UTM Northing: 429720	. •
	Tee	Danta	Parmeter		
Vell Log	Тор	Bottom	Formation		
	0.0	20.0	CLAY		
	20 0 25 0	25.0 40.0	GRAY LIME DARK LIME		
	40.0	90.0	WHITE LIME		
	+17 U	70.0	WHIETHAE		
	on n	01.0	WATED CEAM		
	90 0 91 0	91.0 95.0	WATER SEAM WHITE LIME		

131

Reference Number	Driving directions to w	Date completed			
217934			50 APROX. 5 MI TO FAYE R. WILL BE 2ND HOUSE (		Thu, Apr 01, 1965
Owner-Contractor Well Owner	Name JAMES RAINEY	Add R1 E	ress BEDFORD		Telephone
Building Contractor Drilling Contractor	LOUIE SMITH	RIE	BEDFORD		
Equipment Operator	LOUIE SMITH	Lice	nse:		
Construction Details					
Well	Use: HOME	Drill	ling method: CABLE TOOL	. Pump type:	
	Depth: 120.0	Pum	p setting depth:	Water quality	y:
Casing Screen	Length: 51.0 Length:		erial: erial:	Diameter: 6.1 Diameter: Sl	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 25.0 f		ate: 1.5 gpm for 4.0 hrs.
Grouting Information	Material: Installation Method:			Depth: from to Jumber of bags used:	
Well Abandonment	•		Depth: from to		
Administrative	County: LAWRENCE Section: SW 1/4 of the	NW 1/4 of th	e NE 1/4 of Section 31	Township: 5N Range	:: IW  Topo map: BEDFORD  WEST
	Field located by: JVH			on: Mon, Aug 01, 196	
	Courthouse location by:			on:	
	Location accepted w/o verification by:			on:	
	Subdivision name:	,	•	Lot number:	
	Ft W of EL: 1900		Ft N of SL:	Ft E of WL:	Ft S of NL: 1100
	Ground elevation: 520.		Depth to bedrock: 50.0	Bedrock elevation: 470 0	Aquifier elevation:
	UTM Easting: 538147.	0		UTM Northing: 4297	646.0
Vell Log	Тор	Bottom	Formation		
	0.0	20.0	CLAY		
	20 0	35.0	BLUE CLAY		
	35.0	48.0	YEL CLAY		
	48.0	75.0	, white lime so	140	
		120.0	VERY HARD U		
`omments	MC470				

132

Reference Number	Driving directions to	o well	deplacement to the series of t	The control of the second second	Date completed
217939	FROM FAYETTES	Sat, May 04, 1968			
Owner-Contractor Well Owner	<i>Name</i> HENRY ACTON		Address R#1, BEDFORD		Telephone
Building Contractor Drilling Contractor	LOUIE O. SMITH		R#1, BEDFORD		
Equipment Operator	LOUIE O. SMITH		License:		
Construction Details					
Well	Use: HOME		Drilling method: CABLE TO	OL Pump type:	
	Depth: 70.0		Pump setting depth:	Water qualit	y:
Casing Screen	Length: 47.0 Length:		Material: Material:	Diameter: 6. Diameter: Sl	_
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs Static water level: 50.		rate: 10.0 gpm for 2.0 hrs.
Constitut Information	Matarial			Dantha faora ta	
Grouting Information	Material: Installation Method:			Depth: from to  Number of bags used:	
				, ,	
Well Abandonment	Sealing material:			Depth: from to	
	Installation Method:			Number of bags used:	
Administrative	County: LAWRENC	E		Township: 5N Range	:: 1W
	Section: SW 1/4 of th	he SW 1/4 o	of the SW 1/4 of Section 30	. •	Topo map: BEDFORD WEST
	Field located by: PW	,		on: Wed, Aug 18, 19	71
	Courthouse location	by:		on:	
	Location accepted w	o verificati/	on by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL:		Ft N of SL: 200	Ft E of WL: 50	Ft S of NL:
	Ground elevation: 57	70.0	Depth to bedrock: 45 0	Bedrock elevation: 525 0	Aquifier elevation:
	UTM Easting: 53706	8.0		UTM Northing: 4298	042 0
Well Log	Тор	Bottom	Formation		
	0 0	45.0	CLAY		
	45 0	50.0	SHELL		
	50.0	60.0	LIME		
	60.0	63.0	SHELI		
	63.0	65 0	LIME		
	65.0	70.0	SHELL		
Comments	MC 525; MAILBOX	VERIFICA	TION.	. And a Managarahaya ayuna	Mile Th. Lebble II (B) of Allebook II. Burndonken kellingsprock (b)

Comments

140 0

MC560: VERIFIED BY NEIGHBOPage 960

# Record of Water Well

#### Indiana Department of Natural Resources

Reference Number	Driving directions to we	·U			Date completed
217944	FROM BEDFORD GOI BRIDGE	NG W ON 450	) LAST FARM BEFORE CF	ROSSING SALT CK	Sat, May 02, 1970
Owner-Contractor Well Owner Building Contractor	<i>Name</i> FRANK JACKSON	Addres	rs .		Telephone
Orilling Contractor	LOUIE SMITH	R1 BE	DFORD, IN		
Equipment Operator	LOUIE SMITH	License	<b>e:</b>		
Construction Details					
Vell	Use: HOME	Drillin	g method: CABLE TOOL	Pump type:	
	Depth: 140.0	Pump :	setting depth:	Water quality	y:
Casing Gereen	Length: 22.0 Length:	Materi Materi		Diameter: 6. Diameter: Sl	
Vell Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 95.0 ft.	BailTest r	rate: 3.0 gpm for 1.0 hrs.
Frouting Information	Material:		Dej	oth: from to	
	Installation Method:		Nu	mber of bags used:	
Vell Abandonment	Sealing material:		-	oth: from to	
	Installation Method:		Nu	mber of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range	: IW <i>Topo map:</i> BEDFORD
	Section: NW 1/4 of the N	IE 1/4 of the S	W 1/4 of Section 29		WEST
	Field located by: PW			on: Tue, Aug 17, 197	1
	Courthouse location by:			on:	
	Location accepted w/o ve	rification by:		on:	
	Subdivision name:			Lot number:	
	Ft W of EL:	Ft	N of SL: 2200	Ft E of WL: 1950	Ft S of NL:
	Ground elevation: 580.0 De		pth to bedrock: 18 0	Bedrock elevation: 562 0	Aquifier elevation:
	UTM Easting: 539335 0			UTM Northing: 4298	676.0
ell Log	Тор В	ottom	Formation		
	0 0	3 0	CLAY		
	18.0 20	0 0	SHELL		
	20 0 49	5 0	LIME		
	45.0	01.0	MED LIME		
	101.0	03 0	SS		

LIME

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### Indiana Department of Natural Resources

Reference Number	Driving directions to well	ed the Albandesense there is used as a company	rdden'd d	Bergan Harris Will Laborator	Date completed
220882	3 S OF BEDFORD IN, ON		Tue, Mar 06, 1962		
Owner-Contractor Well Owner Building Contractor	<i>Name</i> KENNETH DAY	Address RR#5, BEDFORD IN			Telephone
Drilling Contractor Equipment Operator	ERNIE UMPHRESS & SON ERNIE UMPHRESS & SON				
Equipment Operator	LRIVIE UNIFIELSS & SON	3 Literise.			
Construction Details					
Well	Use: HOME	Drilling method: CABLE	TOOL	Pump type:	
	Depth: 100.0	Pump setting depth:		Water quality:	
Casing	Length: 26.3	Material: Material:		Diameter: 6.0	•
Screen	Length:	material:		Diameter: Slot	: size:
Well Capacity Test	Type of test:	Test rate: gpm for		BailTest rai	te: 1.0 gpm for hrs.
	Drawdown: ft.	Static water level:	30.0 ft.		
Grouting Information	Material:		Depth: from to		
	Installation Method:		Number of bag	s used:	
Well Abandonment	Sealing material:		Depth: from to		
77 63 720 63 63 63 63 63 63 63 63 63 63 63 63 63	Installation Method:		Number of bag:	s used:	
	0				
Administrative	County: LAWRENCE  Section: SE 1/4 of the NW 1/	4 of the SE 1/4 of Section 36	Townsh	ip: 5N Range:	IW  Topo map: BEDFORD EAST
	Field located by: JCH		on: Moi	ı. Aug 01, 1966	
	Courthouse location by:		on:	•	
	Location accepted w/o verific	on:			
	Subdivision name:		Lot num	ber:	
	Ft W of EL: 1800	Ft N of SL: 1700	Ft E of		Ft S of NL:
	Ground elevation: 660.0	Depth to bedrock: 25.	) Bedrock 635.0	elevation:	Aquifier elevation.
	UTM Easting: 546173.0		UTM No	orthing: 429703	32.0
Well Log	Top Botto	n Formation			
wen Log	0.0 23.0	DIRT			
	23.0 50 0	WH LS SO	न		
	50.0 73.0	GRAY LS S			
	73.0 100.0	BLUE LS H			
	- "	<del></del>			

Comments MC 635

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Reference Number 220887	Driving directions to	well		_	Date completed	
220007	2.75 MI S OF BEDFO	RD ON IS	т.		Tue, Mar 09, 1965	
Owner-Contractor Well Owner	<i>Name</i> WALTER WOODWA		address 11, BEDFORD IN		Telephone	
Building Contractor	COMIC UMPURECC	. COME D	DE DEDECTED IN			
Drilling Contractor Equipment Operator	ERNIE UMPHRESS & EUGENE & CHARLE UMPHRESS	25	icense:			
Construction Details						
Well	Use: HOME	D	rilling method: CABLE TOOL	Pump type:		
	Depth: 105.0		ump setting depth:	Water quality.		
Casing Screen	Length: 20 5 Length:		laterial: laterial:	Diameter: 6 0 Diameter: Slo		
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs.	BailTest ra	te: 5 0 gpm for hrs	
	Drawaown: 11.		Static water level: 80 0 ft.			
Grouting Information	Material: Installation Method:		•	th: from to nber of bags used:		
Well Abandonment	Sealing material: Installation Method:			th: from to nber of bags used:		
				. 5		
Administrative	County: LAWRENCE  Section: SE 1/4 of the NW 1/4 of the SE 1/4 of Section 36  Field located by: JCH  Courthouse location by:  Location accepted w/o verification by:			Township: 5N Range:	Topo map: BEDFORD EAS	
				on: Mon, Aug 01, 1966 on:		
				on:		
	Subdivision name:			Lot number:		
	Ft W of EL: 1800		Ft N of SL: 1500	Ft E of WL:	Ft S of NL:	
	Ground elevation: 650	0	Depth to bedrock: 15 0	<b>Bedrock elevation:</b> 635 0	Aquifier elevation:	
	UTM Easting: 546173	0		UTM Northing: 42965	065 0	
Well Log	Тор	Bottom	Formation			
<b>v</b>	0 ()	170	DIRT			
	17.0	33.0	BLUE LS HARD			
	33.0	<b>40 0</b>	GRAY LS HARD			
	40.0	74 0	WH LS SOFT			
	74.0	88 O	GRAY LS HARD			
	88.0	94.0	BR LS HARD			
	94 11	105 0	BLUE LS HARD			

136

Reference Number	Driving directions to	well			Date completed	
220892	3 MI S, S ON AIRPO	ORT RD, 1 MI	W ON BLK TIP RD. BEDFOR	D IN.	Fri, Mar 18, 1966	
Owner-Contractor Well Owner	<i>Name</i> I.L. EDWARDS		dress DFORD IN		Telephone	
Building Contractor Drilling Contractor	KING WELL DRLG	וומ	LLSBORO IN, RR I			
Equipment Operator	JACK KING		ense:			
Construction Details						
Well	Use: HOME	Dri	illing method: CABLE TOOL	Pump type:		
	Depth: 140.0		mp setting depth:	Water qual		
Casing Screen	Length: 35.0 Length:	Ма	terial: terial:	Diameter: ( Diameter: S	5.25	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest	rate: 6.75 gpm for 2.0 hrs.	
	Drawdown: ft.		Static water level: 98 0 ft.			
Grouting Information	-			th: from to		
	Installation Method:		Nun	nber of bags used:		
Well Abandonment	Sealing material:		Dep	th: from to		
	Installation Method:		Nun	nber of bags used:		
Administrative	County: LAWRENCE	3		Township: 5N Rang	ge: 1W	
	Section: NW 1/4 of th	e NE 1/4 of the	ne NE 1/4 of Section 36	Topo map: BEDFORD EAS		
	Field located by: JCH	Ī		on: Mon, Aug 01, 1	966	
	Courthouse location i	by:		on:		
	Location accepted w/o	o verification	by:	on:		
	Subdivision name:			Lot number:		
	Ft W of EL: 900		Ft N of SL:	Ft E of WL:	Ft S of NL: 300	
	Ground elevation: 68.	5.0	Depth to bedrock:	Bedrock elevation:	Aquifier elevation:	
	UTM Easting: 546459	9.0		UTM Northing: 429	8013 0	
Vell Log	Тор	Bottom	Formation			
	00	0.0	NO INFORMATION	1		

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

220897

S OF BLOOMINGTON ON SR37 TO BEDFORD. E TO PALEISTINE RD TO SUNNY

ACRES DR, E ON SE CORNER.

Sat, Feb 20, 1965

Owner-Contractor

Well Owner **Building Contractor**  Name DONALD PIPER Address

611 T ST, BEDFORD IN

Telephone

**Drilling Contractor** Equipment Operator

WILLARD ENGLISH & SONS CLAYTON IN, RI

LEON ENGLISH

License:

Construction Details

Use: HOME Depth: 112.0 Length: 22.0 Length:

Drilling method: ROTARY

Pump setting depth: Material:

Pump type: Water quality: Diameter: 6.5

Casing Screen

Material:

Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 50.0 ft. BailTest rate: 3.0 gpm for hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the NE 1/4 of the NW 1/4 of Section 36

Field located by: JCH Courthouse location by:

Location accepted w/o verification by:

Subdivision name:

Ft W of EL: Ft N of SL:

Ground elevation: 650.0

Depth to bedrock: 20 0

Township: 5N Range: 1W

Topo map: BEDFORD EAST

on: Mon, Aug 01, 1966

on: on:

Lot number:

Ft E of WL: 2000

Ft S of NL: 300

Bedrock elevation: 630 O

Aquifier elevation:

UTM Easting: 545758.0

UTM Northing: 4298025 0

Well Log

مريد ۴۰

Top **Bottom** Formation 0.0 22.0 **CLAY YEL** 22.0 91.0 LS BLUE 910 1020 LS BR LS BLUE 1020 1120

Comments

MC 630;

Reference Number	Driving directions to well	inspeciental v.n. 4 distribute interference of October of A − + + + + + + + + + + + + + + + + + +	er elbateatrichie estate propinioniene en	Date completed
220902	APPRX 3MI S OF BEDFORI RD FROM THE VINIGAR H	<sup>E</sup> Tue, Jul 23, 1963		
Owner-Contractor Well Owner Building Contractor	<i>Name</i> LOUIE E. JOHNSON	Address 1410 HILLCRES RD		Telephone
Drilling Contractor	ERNIE UMPHRESS & SONS	RR6, BEDFORD IN		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOOL	Pump type:	
	Depth: 111.0	Pump setting depth:	Water quality	
Casing Screen	Length: 18.0 Length:	Material: Material:	Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest ra	tte: 3.0 gpm for hrs.
	Drawdown: ft.	Static water level: 71.0 ft.		
Grouting Information	Material:	Material: Depth: from to		
	Installation Method:	stallation Method: Number of bags used:		
Well Abandonment	Sealing material: Installation Method:	-		
Administrative	County: LAWRENCE  Section: NW 1/4 of the NW 1/4 of the SE 1/4 of Section 36		Township: 5N Range: 1W	
	Field located by: JCH	4 of the 32 1/4 of Section 30	on: Mon, Aug 01, 1966	Topo map: BEDFORD EAS
	·		on:	U
	Courthouse location by:		on:	
	Location accepted w/o verification by: Subdivision name:		Lot number:	
	Ft W of EL: 2000	Ft N of SL: 2500	Ft E of WL:	Ft S of NL:
	Ground elevation: 675.0	Depth to bedrock: 10.0	Bedrock elevation: 665 0	Aquifier elevation:
	UTM Easting: 546112 0		UTM Northing: 4297276.0	
Well Log	Top Botton	i Formation		
	00 120	DIRT	**************************************	
	12.0 34 ()	GRAY LS HARD		
	34.0 68.0	BLUE LS HARD		
	68.0 101 to	GRAY LS SOFT		
	101.0 H e	BLUE LS HARD		
Comments	MC 665;			

#### **Indiana Department of Natural Resources**

Reference	Number
22000	7

Driving directions to well

Date completed

*22*090/

2 MI S OF BEDFORD TO POOR FARM RD, NOW CR200S. E 300', S 70'.

Sat. Jul 20, 1968

Owner-Contractor Well Owner **Building Contractor Drilling Contractor** 

Name **BOB BURKHART** 

Address RR#5, BEDFORD IN Telephone

**Equipment Operator** 

ERNIE UMPHRESS & SONS RR6, BEDFORD IN

License:

Construction Details

Well

Use: HOME Depth: 106.0 Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality: Diameter: 6.0

Casing Screen

Length: 25.0 Length:

Material: Material:

Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 46 0 ft. BailTest rate: 13.0 gpm for 1.0 hrs.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the NE 1/4 of the NW 1/4 of Section 36

Township: 5N Range: 1W

on: Mon, Aug 16, 1971

Field located by: PW Courthouse location by:

Location accepted w/o verification by:

on: on:

Subdivision name:

Ft W of EL:

Ft N of SL:

Lot number: Ft E of WL: 2100

Ft S of NL. 100

Topo map: BEDFORD EAST

Ground elevation: 650 0

Depth to bedrock: 22 0

Bedrock elevation:

Aquifier elevation:

UTM Easting: 545794 0

628 0

UTM Northing: 4298074 0

Well Log

Тор	Bottom	Formation	
00	22 0	DIRT	
22.0	32.0	GRAY LS HARD	
32 0	70 0	BLUE LS HARD	
70 0	85 0	WH LS SOFT	
85 0	106 0	BLUE LS SOFT	

Comments MC 630, MAILBOX VERIFICATION



76.0

Comments

105 0

133.0

MC 655, VERIFIED BY NEIGHBOR:

#### Record of Water Well

#### **Indiana Department of Natural Resources**

Reference Number Driving directions to well Date completed 220912 3 MI S OF BEDFORD IN, ON VINIGAR HILL RD. 250S?UCH. Wed, Jul 24, 1968 Owner-Contractor Address Telephone Name RR5, BEDFORD IN Well Owner LLOYD CRAIG **Building Contractor Drilling Contractor** ERNIE UMPHRESS & SONS RR6, BEDFORD IN **Equipment Operator CHARLES UMPHRESS** License: Construction Details Use: HOME Drilling method: CABLE TOOL Well Pump type: Depth: 133.0 Pump setting depth: Water quality: Length: 26.0 Material: Diameter: 6.0 Casing Material: Screen Length: Diameter: Slot size: Well Capacity Test Type of test: Test rate: gpm for hrs. BailTest rate: 0.6 gpm for 1.0 hrs. Drawdown: ft. Static water level: 53.0 ft. Material: Depth: from to **Grouting Information** Installation Method: Number of bags used: Well Abandonment Sealing material: Depth: from to Installation Method: Number of bags used: Administrative County: LAWRENCE Township: 5N Range: 1W Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 36 Topo map: BEDFORD EAST Field located by: PW on: Mon, Aug 16, 1971 Courthouse location by: Location accepted w/o verification by: on: Subdivision name: Lot number: Ft W of EL: 2350 Ft N of SL: Ft E of WL: Ft S of NL: 1500 Bedrock elevation: Ground elevation: 680 0 Depth to bedrock: 23 0 Aquifier elevation: 6570 UTM Easting: 546020 0 UTM Northing: 4297324 0 Formation Top Bottom Well Log 23 0 0.0 DIRT 23.0 700 WH LS SOFT 70.0 760 **BLUE LS HARD** 

**GRAY LS SOFT** 

WH LS HARD

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# Record of Water Well

Reference Number 220917	Driving directions i	o well			Date completed
<i>220</i> 717	RR5				Sat, Apr 02, 1960
Owner-Contractor Well Owner Building Contractor	Name	Ad	dress		Telephone
Drilling Contractor	FLOYD STULTZ	RR	4, BEDFORD IN		
Equipment Operator	FLOYD STULTZ	Lic	rense:		
Construction Details					
Well	Use:	Dri	illing method: CABLE TOOL	Pump type.	•
	Depth: 120.0	Pui	mp setting depth:	Water qual	ity:
Casing Screen	Length: 24.0 Length:		terial: terial:	Diameter: Diameter:	
Well Capacity Test	Type of test:	,	Test rate: gpm for hrs.	BailTesi	rate: 1.0 gpm for 8.0 hrs.
	Drawdown: ft.		Static water level: 50.0 ft.		
Grouting Information			epth: from to		
	Installation Method	nstallation Method:		Number of bags used:	
Well Abandonment	Sealing material:		De	epth: from to	
	Irstallation Method	:	Nı	umber of bags used:	
Administrative	County: LAWRENC			Township: 5N Ran	
	Section: NW 1/4 of the NW 1/4 of the NE 1/4 of Section 36		the NE 1/4 of Section 36	Topo map: BEDFORD EAST	
	Field located by: BA	RNES		on: Sun. Jul 01, 196	52
	Courthouse location	by:		on:	
	Location accepted w	o verification	by:	on:	
	Subdivision name:			Lot number:	
	Ft W of EL: 2250		Ft N of SL:	Ft E of WL:	Ft S of NL: 200
	Ground elevation: 6	70.0	Depth to bedrock:	Bedrock elevation:	Aquifier elevation:
	UTM Easting: 5460	44 0		UTM Northing 42	98044 0
Vell Log	Тор	Bottom	Formation		
	0.0	24.0	CLAY		
	24.0	120.0	LS		

142

# Indiana Department of Natural Resources

1	16			
Reference Number	Driving directions to well	rigetale in Service - grande and description of the service of the	mentado minus en mento matérica. Il mentampia esción estabacidado	Date completed
220922	IN BEDFORD, S ON I ST PA 1ST RD AND NORTH ON TH	ST POOR FARM RD TO THE HE EAST SIDE OF RD	IST RD, THEN EAST TO THE	Thu, Aug 12, 1965
Owner-Contractor Well Owner Building Contractor	Name JOHN SCOGGINS	Address 1905 14TH ST., BEDFORD,	IN	Telephon <b>e</b>
Drilling Contractor	WILLARD ENGLISH & SON	RRI CLAYTON, IN		
Equipment Operator	LEON ENGLISH	License:		
Construction Details				
Well	Use: HOME Depth: 130.0	Drilling method: ROTARY Pump setting depth:	Pump type: Water quality	<b>:</b>
Casing Screen	Length: 27.0 Length:	Material: Material:	Diameter: 6.5 Diameter: Slo	
Well Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs Static water level: 30.		ute: 20.0 gpm for hrs.
Grouting Information	Material: Installation Method:		Depth: from to Number of bags used:	
Well Abandonment	Sealing material: Installation Method:		Depth: from to Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range.	: 1W
	Section: NE 1/4 of the NE 1/4	of the NE 1/4 of Section 36		Topo map: BEDFORD EAST
	Field located by: JVH		on: Mon, Aug 01, 196	6
	Courthouse location by:		on:	
	Location accepted w/o verifica	tion by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL: 200	Ft N of SL:	Ft E of WL:	Ft S of NL: 100
	Ground elevation: 690.0	Depth to bedrock: 25.0	Bedrock elevation: 665.0	Aquifier elevation:
	UTM Easting: 546690.0		UTM Northing: 42980	087.0

Comments		1C665	Marking or only the 12 rooms through Marking	
	27	7.0	130.0	LS
	0.	.0	27.0	CLAY YEL

Formation

Bottom

Top

Well Log

#### Indiana Department of Natural Resources

Reference Number 220927

Driving directions to well

Date completed

2 BLKS E OF PALESTINE RD & 2 BLKS N OF VINEGAR HILL RD.

Tue, Aug 01, 1967

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Owner-Contractor Well Owner

Name ROBERT C. NILSON Address

Telephone

**Building Contractor Drilling Contractor Equipment Operator** 

1708 7TH ST, BEDFORD

**ERNIE UMPHRESS & SONS** 

**CHARLES** 

License:

Construction Details

Well

Use: HOME Depth: 118.0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen

Length: 23.0 Length:

Pump setting depth: Material: Material:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 48.0 ft. BailTest rate: 10.0 gpm for 1.0 hrs.

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SE 1/4 of the SW 1/4 of the NE 1/4 of Section 36

Township: 5N Range: 1W

Topo map: BEDFORD EAST

Field located by: PW

Courthouse location by:

on: Mon, Aug 16, 1971

Location accepted w/o verification by:

on: on:

Subdivision name: Ft W of EL: 1300

Ft N of SL:

Lot number: Ft E of WL:

Ft S of NL: 2000

Ground elevation: 690.0

Depth to bedrock: 20 0

Bedrock elevation:

Aquifier elevation:

UTM Easting: 546343 0

670 O

UTM Northing: 4297501 0

Well Log

тор	Bottom	Formation
0.0	20 0	DIRT
20.0	30 0	BLUE LIME HARD
30.0	80 0	WHI IMF HARD
80.0	1180	WHILIME SOFT

Comments

MC 670; VERIFIED BY MAILBOX.

## Indiana Department of Natural Resources

Reference Number
220932

Driving directions to well

Date completed

SUNNY ACRES DR, SO OF BEDFORD.

Thu, Jun 25, 1964

Owner-Contractor Well Owner **Building Contractor** Drilling Contractor

Name JACK BYREN Address 1630 25ST, BEDFORD

Telephone

**Equipment Operator** 

FLOYD STULTZ

RR4, BEDFORD IN

FLOYD STULTZ License:

Construction Details

Well

Depth: 105.0

Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality: Diameter:

Casing Screen

Length: 28.0 Length:

Material: Material:

Diameter: Slot size:

Well Capacity Test Type of test: PUMPING

Drawdown: ft.

Test rate: 10.0 gpm for 8.0 hrs. Static water level: 30.0 ft.

BailTest rate: gpm for hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the NE 1/4 of the NW 1/4 of Section 36

Township: 5N Range: 1W

Topo map: BEDFORD EAST

Field located by: JCH

Courthouse location by:

on: Mon, Aug 01, 1966

Location accepted w/o verification by:

on: on:

Subdivision name: Ft W of EL:

Ft N of SL:

Lot number: Ft E of WL: 2200

Ft S of NL: 700 Aquifier elevation:

Ground elevation: 665 0 UTM Easting: 545813 0

Depth to bedrock:

Bedrock elevation:

UTM Northing: 4297909 0

Well Log

Тор	Bottom	Formatio
0 0	28 0	CLAY
28 0	105 0	LS

#### Indiana Department of Natural Resources

Reference	Number
22003	7

Driving directions to well

Date completed

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*ムム*ひソ*う i* 

POOR FARM RD.

Fri, May 20, 1960

Owner-Contractor Well Owner **Building Contractor** 

Name VADA H. HAWKINS

Address RR5, BEDFORD IN Telephone<sup>\*</sup>

**Drilling Contractor Equipment Operator** 

FLOYD STULTZ FLOYD STULTZ

RR4, BEDFORD IN

License:

Construction Details

Well

Use: HOME Depth: 110.0 Drilling method: CABLE TOOL Pump setting depth:

Pump type:

Casing Screen

Length: 6.0 Length:

Material: Material: Water quality: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 40.0 ft. BailTest rate: 1.3 gpm for 8.0 hrs.

Ft S of NL: 700

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the NE 1/4 of the NW 1/4 of Section 36

Township: 5N Range: 1W

Topo map: BEDFORD EAST on: Fri, Jul 01, 1960

Field located by: BARNES

Courthouse location by: Location accepted w/o verification by: on: on:

Subdivision name:

Lot number:

Ft W of EL: 3000 Ft N of SL: Ft E of WL: Ground elevation: 670.0 Depth to bedrock:

UTM Easting: 545813.0

Bedrock elevation: Aquifier elevation:

UTM Northing: 4297909 0

Well Log

Тор	Bottoin	Formation
0.0	6 0	CLAY
6.0	10.0	SOFT LS

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, , ,	1	ndiana Depart	ment of Natural Kesot	irces	
Reference Number	Driving directions to well	an jaan temperaturanan ajulga d	to an analyzing area, principles of second principles	The control of the co	Date completed
220942	3 MI S OF BEDFORD, IN	ON PALESTIN	NE RD		Thu, Sep 19, 1963
Owner-Contractor	Name	Address	ODD 151		Telephone
Well Owner Building Contractor	G BROWN	R1 BEDF			
Drilling Contractor Equipment Operator	ERNIE UMPHRESS & SO EUGENE & CHARLES UMPHRESS	License:	13, BEDFORD, IN		
Construction Details					
Well	Use: HOME	Drilling m	ethod: CABLE TOOL	Pump type:	
	Depth: 113.0	Pump sett	ing depth:	Water quality	<i>ı:</i>
Casing	Length: 47.5	Material:		Diameter: 6.0	
Screen	Length:	Material:		Diameter: Slo	ot size:
Well Capacity Test	Type of test:	Te	est rate: gpm for hrs	BailTest ra	ate: 3.0 gpm for hrs.
	Drawdown: ft.	Ste	atic water level: 58 0 ft.		
Grouting Information	Material:		De	epth: from to	
	Installation Method:		Ni	umber of bags used:	
Well Abandonment	Sealing material:		De	epth: from to	
	Installation Method:		Nı	umber of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range:	: 1W
	Section: NE 1/4 of the SW	1/4 of the SE 1/	4 of Section 36		Topo map: BEDFORD EAST
	Field located by: JVH			on: Mon, Aug 01, 196	6
	Courthouse location by:			on:	
	Location accepted w/o veri	fication by:		on:	
	Subdivision name:			Lot number.	
	Ft W of EL: 1600	Ft No	f SL: 1200	Ft E of WL:	Ft S of NL:
	Ground elevation: 660 0	Depth	to bedrock: 45 0	Bedrock elevation: 615 0	Aquifier elevation:
	UTM Easting: 546246 0			UTM Northing: 42968	379 0
Well Log	Top Bott	om	Formation		
	0 0 12 0	•	DIRT		
	120 440	1	BOULDERS & MU	D HOLES	
	44 0 69 0	)	BLUE LS HARD		

Well Log	ТОР	Bottom	1 Officiality
	0 0	12 0	DIRT
	120	44 0	BOULDERS & MUD HOLES
	44 0	69 0	BLUE LS HARD
	69 0	90.0	GRAY LS HARI)
	90.0	113 0	WHITE LS HARD
Comments	MC615	de mengande vangeren pant de	to dia diandratica. Alla Circ. Il Composi di San Arrico di Landagan Dandrito La dian di Lori - Malabadi. 1986 - de Harragan.

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

220947

ON SANDPIT RD JUST E OF MONAN RR AP 3 MI SW OF BEDFORD, IN S ACROSS

Mon, Jul 27, 1959

Owner-Contractor

Well Owner

**Building Contractor** 

Name J W HAWKINS Address

RRI BEDFORD, IN

Telephone

**Drilling Contractor** Equipment Operator

ERNIE UMPHRESS & SONS RR6 BOX 13, BEDFORD, IN

B ERIE

License

Construction Details

Well

Use: OTHER Depth: 78 0

Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen Length: Length: Pump setting depth: Material: Material:

Diameter: 60 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft.

Test rate: gpm for hrs Static water level: 40 0 ft BailTest rate: 1 0 gpm for 1 0 hrs

Topo map: BEDFORD EAST

**Grouting Information** 

Material:

Installation Method:

Depth from to

Number of bags used:

Well Abandonment

Sealing material:

Depth: from to

Installation Method:

Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the SW 1/4 of the NW 1/4 of Section 35

Township: 5N Range: 1W

Field located by: BARNES

Courthouse location by:

on: Fn, Jul 01, 1960 on:

Location accepted w/o verification by:

Ft W of EL:

Lot number: Ft E of WL:

Ground elevation: 520 0

Subdivision name:

Depth to bedrock

Ft N of SL:

Bedrock elevation: Aquifier elevation:

Ft S of NL:

UTM Easting: 543661 0

UTM Northing: 4297372 0

Well Log

/ omments

Lop	Bottom	Formation	
0 0	21 0	SANDRED	
21 0	40 0	BLUE MUCK	
40 0	64 0	BROWN MCUK	
64 0	68 0	BROWNTIME	
68 0	78 0	SAND & SHALE	
MC160			

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

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220952

3 MI S OF BEDFORD ON SAND PIT RD.

Tue, Aug 22, 1961

Owner-Contractor

Well Owner **Building Contractor**  Name **GLEN HOPKIN**  Address

RRI, BEDFORD IN

Pump setting depth:

Telephone

**Drilling Contractor Equipment Operator**  ERNIE UMPHRESS & SONS RR6, BEDFORD IN ERNIE UMPHRESS & SONS License:

Construction Details

Well

Use: STOCK Depth: 176.0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen Length: 28.75 Length:

Material: Material: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: ft.

BailTest rate: gpm for hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the SW 1/4 of the SW 1/4 of Section 35

Township: iN Range: 1W

on: Mon, Aug 01, 1966

Topo map: BEDFORD EAST

Field located by: JCH

Courthouse location by:

on:

Lot number:

Location accepted w/o verification by:

on:

Subdivision name:

Ft W of EL:

Ft N of SL: 100

Ft E of WL: 400

Ft S of NL:

Ground elevation: 600.0

Depth to bedrock: 20.0

Bedrock elevation: 580.0

Aquifier elevation:

UTM Easting: 543655.0

UTM Northing: 4296531.0

Well Log

1 op	Bottom	Formation
0.0	22.0	DIRT
22 0	27 0	LS BOLDER
27.0	75.0	BR LS
75.0	80 0	BLUE LS
80.0	83 0	BLUE SHALE SHALE SOFT
83.0	167 0	BR LS
167.0	176 0	BLUE SHALE
MC 580:		

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# Indiana Department of Natural Resources

Reference Number	Driving directions to	well				Date completed
317715	2 MI W OF BEDFORD, ON 450, RT SD OF RD				Thu, May 28, 1998	
Owner-Contractor Well Owner	<i>Name</i> KIM JACKSON		Address RR BOX 1695, BEDFORD, IN	i 47421		Telephone
Building Contractor	CAC DRU LING ING	, ,	DI DOV 507 MONTCOMED	V IN 47660		
Drilling Contractor Equipment Operator	S&S DRILLING INC DEXTER SWARTZENTRUBE		R1 BOX 507, MONTGOMER icense: 302	1,114 4/338		
Construction Details						
Well	Use: HOME	ı	Orilling method: ROTARY		Pump type:	
	Depth: 103.0	I	ump setting depth:		Water quali	ity:
Casing Screen	Length: 30.0 Length: 80.0		Aaterial: PVC Aaterial: PVC		Diameter: 6 Diameter: 4	5.0 5.5 Slot size:
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: 10.0 gpm for Static water level: ft.	r hrs.	BailTest	rate: gpm for hrs.
Grouting Information	Material: BNSL			Depth: from	30.0 to 0.0	
	Installation Method:	PUMP		Number of l	bags used: 2.0	
Well Abandonment	Sealing material: Installation Method:			Depth: from Number of l		
		_		_	_	
Administrative	County: LAWRENCE Section: 1/4 of the 1/4		1/4 of Section 30	Tow	nship: 5N Rang	ge: 1W Topo map: BEDFORD WES
	Field located by:		v oi bootton bo	on:		Topo map. DEDI OND WES
	Courthouse location is	by:		on:		
	Location accepted w/o	o verificatio	on by:	on:		
	Subdivision name:			Lot	number:	
	Ft W of EL:		Ft N of SL:	Ft E	of WL:	Ft S of NL:
	Ground elevation:		Depth to bedrock:	Bedr	ock elevation:	Aquifier elevation:
	UTM Easting			UTM	f Northing:	
Vell Log	Тор	Bottom	Formation			
	0.0	30	CLAY			
	3 0	25 0	BRKN LIME			
	25 0	62 0	LIME			
	62.0	<b>64</b> 0	CLAY			
	64 0	103 0	SANDY LIME			

150

Reference Number	Driving directions to we	ell			Date completed
217925	FROM BEDFORD GO ON L SIDE LAST HOU	Sat, Dec 15, 1979			
Owner-Contractor Well Owner	<i>Name</i> BRIDWELL ESTATE		ddress 111, BEDFORD		Telephone
Building Contractor  Dralling Contractor	CARROLL SHIELDS	R#	4, MITCHELL IN		
Equipment Operator	CARROLL SHIELDS	Lie	cense:		
Construction Details					
Well	Use: HOME	Dr	illing method: CABLE TOC	L Pump type:	
	Depth:	Pu	mp setting depth:	Water quality	<i>i</i> :
Casing Screen	Length: 31.0 Length:		uterial: uterial:	Diameter: 6.3 Diameter: Sl	
Well Capacity Test	Type of test: Test rate: gpm for hrs.			ate: 2.0 gpm for 2.0 hrs.	
	Drawdown: ft.		Static water level: 110.	0 ft.	
Grouting Information	Material:			Depth: from to	
	Installation Method:			Number of bags used:	
Vell Abandonment	Sealing material:			Depth: from to	
	Installation Method:			Number of bags used:	
Administrative	County: LAWRENCE			Township: 5N Range	
	Section: SW 1/4 of the S	E 1/4 of th	e SE 1/4 of Section 20		Topo map: BEDFORD WEST
	Field located by: PES			on: Thu, Jul 31, 1980	
	Courthouse location by:			on:	
	Location accepted w/o ve	rification	by:	on:	
	Subdivision name:		F. N - 661 . 200	Lot number:	
	Ft W of EL: 700  Ground elevation: 628.0		Ft N of SL: 300  Depth to bedrock: 31 0	Ft E of WL:  Bedrock elevation:	Ft S of NL: Aquifier elevation:
	UTM Easting: 540134 0			597 0 UTM Northing 4299	• •
Vall I an	Гор В	ottom	Formation		
Vell Log		1 0	CLAY		
		50 0	SOFT LIME		
	'1 U 1.	J. U	JOI 1 LIMIL		
omments	MC 597, VERIFIED BY I	NEIGHBO	R & MAILBOX;		

15

Reference Number	Driving directions	to well			Date completed
217945	FROM FAYETTES TURN L IST HOU	Mon, Dec 11, 1967			
Owner-Contractor Well Owner	<i>Name</i> DANNIE GOENS		ddress R, WILLIAMS		Telephone
Building Contractor  Drilling Contractor	LOUIE O. SMITH	P	#1, BEDFORD		
Equipment Operator	LOUIS O. SMITH		icense:		
Construction Details					
Well	Use: HOME		rilling method: CABLE TO		
O '	Depth: 150.0		ump setting depth:	Water quality	
Casing Screen	Length: 22.0 Length:		laterial: laterial:	Diameter: 6.: Diameter: Sl	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 55.0		ate: 2.0 gpm for 2.0 hrs.
Grouting Information	Material: Installation Method	l:		Depth: from to Number of bags used:	
Well Abandonment	Sealing material: Installation Method	! <del>:</del>		Depth: from to Number of bags used:	
Administrative	-			Township: 5N Range	
	Section: NE 1/4 of t	he SW 1/4 of	the SW 1/4 of Section 19	Topo map: BEDFORD WEST	
	Field located by: PV	v		on: Wed, Aug 18, 197	71
	Courthouse location	by:		on:	
	Location accepted w/o verification by:			on:	
	Subdivision name:			Lot number:	
	Ft W of EL:		Ft N of SL: 850	Ft E of WL: 1400	Ft S of NL:
	Ground elevation: 6 UTM Easting: 5375		Depth to bedrock: 21.0	Bedrock elevation: 579.0 UTM Northing: 4299	Aquifier elevation: 865.0
Vell Log	Тор	Bottom	Formation		
	0.0	19.0	CLAY		-
			BLANK		
	19 0	21.0	DEAINE		
	19 0 21 0	22.0	LIME		
	21 0	22.0	LIME		
	21 0 22 0	22.0 26.0	LIME SHELL		
	21 0 22 0 26 0	22.0 26.0 45.0	LIME SHELL SOFT LIME		
	21 0 22 0 26 0 45 0	22.0 26.0 45.0 55.0	LIME SHELL SOFT LIME BROKEN MD LIME		
	21 0 22 0 26 0 45 0 55 0	22.0 26.0 45.0 55.0 60.0	LIME SHELL SOFT LIME BROKEN		

152

217930			EST ON 450 CROSS SALT C	REEK	IST RD TO RIGHT 7TH	Date completed  Mon, May 15, 1967	
	HOUSE ON RIGHT						
Owner-Contractor Well Owner	<i>Name</i> JOE NORDHOF		<i>Address</i> 2704 W 16TH ST., BEDFOR	RD		Telephone	
Building Contractor  Drilling Contractor	LOUIE O. SMIT	н	R1 BEDFORD				
Equipment Operator			License:				
Construction Details							
Vell	Use: HOME		Drilling method: CABLE TO	OOL	Pump type:		
	Depth: 180.0		Pump setting depth:		Water quality		
Casing creen	Length: 27.0 Length:		Material: Material:		Diameter: 6.: Diameter: Sl		
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hr: Static water level: 10		BailTest r	ate: 0.5 gpm for 1.0 hrs.	
Frouting Information	•		-	i: from to ber of bags used:			
Vell Abandonment	Sealing material Installation Met				s: from to ber of bags used:		
dministrative	County: LAWRE	ENCE			Township: 5N Range		
	Section: NE 1/4	of the SW 1/4 o	f the SW 1/4 of Section 19			<i>Topo map:</i> BEDFORD WEST	
	Field located by:	PW			on: Wed, Aug 18, 197	1	
	Courthouse loca	tion by:			on:		
	Location accepte	d w/o verificati	on by:		on:		
	Subdivision nam	e:			Lot number:		
	Ft W of EL:		Ft N of SL: 1000		Ft E of WL: 1600	Ft S of NL:	
	Ground elevation	ı: 600.0	Depth to bedrock: 20.0		Bedrock elevation: 580 0	Aquifier elevation:	
	UTM Easting: 53	37525.0			UTM Northing: 42999	907 0	
ell Log	Тор	Bottom	Formation				
	0.0	20.0	CLAY				
	20.0	28.0	LIME				
	28.0	40.0	SOFT LIME				
	40.0	48.0	LIME				
	48 0	49.0	SHELL				
	49 (1	60.0	LIME				
	60 0	62.0	HARD LIME				
	62.0	63.0	SOFT LIME				
	63.0	64.0	BLANK				
	64.0	68.0	LIME				
	68.3	71.0	SHELL			•	
	~ ti	180.0	LIME				

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Comments MC575: VERIFIED BY OWNER

Reference Number	Driving directions to we	ell			Date completed	
217935	FROM BEDFORD GOI RIGHT GO .5 MI TURI	Mon, Oct 07, 1968				
Owner-Contractor Well Owner Building Contractor	Name DONNIE NORDHOFF	Ad	dress		Telephone	
Drilling Contractor	LOUIE SMITH	R1	BEDFORD			
Equipment Operator	LOUIE SMITH	Lie	ense:			
Construction Details						
Well	Use: HOME	Dr	illing method: CABLE TOOL	Pump type:		
	Depth: 199.0		mp setting depth:	Water quality		
Casing Screen	Length: 38.0 Length:		verial: verial:	Diameter: 6.2 Diameter: Sla		
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 99.0 ft.	BailTest ra	nte: 8.0 gpm for 2.0 hrs.	
Grouting Information	Material:		Depth: from to			
	Installation Method:		Nu	mber of bags used:		
Well Abandonment	Sealing material:		-	oth: from to		
	Installation Method:		Nui	mber of bags used:		
Administrative	County: LAWRENCE			Township: 5N Range:		
	Section: NE 1/4 of the S	W 1/4 of th	ne SW 1/4 of Section 19		Topo map: BEDFORD WEST	
	Field located by: PW			on: Wed, Aug 18, 197	1	
	Courthouse location by:			on:		
	Location accepted w/o ve	erification	by:	on:		
	Subdivision name:			Lot number:		
	Ft W of EL:		Ft N of SL: 1300	Ft E of WL: 1250	Ft S of NL:	
	Ground elevation: 610.0		Depth to bedrock: 35.0	Bedrock elevation: 575 0	Aquifier elevation:	
	UTM Easting: 537446 0		~	UTM Northing: 42999	993.0	
Vell Log	Тор В	ottom	Formation		-	
	00 3	5.0	CLAY			
	35 0 4	0.0	LIME			
	40 0 1	50.0	HARD LIME			

101

	15H In	diana Department of Natural Res	ources	
Reference Number	Driving directions to well	A STATE OF THE STA	randone of the same of the sam	Date completed
217940		ST APPROX I MI TURN LEFT ON PROX I MI TURN RIGHT. LAST N		Wed, Jun 19, 1968
Owner-Contractor Well Owner Building Contractor	Name DONNIE NORDHOFF	Address BEDFORD		Telephone
Drilling Contractor	LOUIE O. SMITH	RI BEDFORD		
Equipment Operator	LOUTE O. SMITH	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOO!	L Pump type:	
	Depth: 170.0	Pump setting depth:	Water quality:	:
Casing	Length: 35.0	Material:	Diameter: 6.2	-
Screen	Length:	Material:	Diameter: Slo	t size:
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest ra	te: 1.0 gpm for 2.0 hrs.
	Drawdown: ft.	Static water level: 70.0	ft.	
Grouting Information	Material:		Depth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range:	
	Section: SE 1/4 of the NW 1	1/4 of the SW 1/4 of Section 19		Topo map: BEDFORD WEST
	Field located by: PW	•	on: Wed, Aug 18, 197	1
	Courthouse location by:		on:	
	Location accepted w/o verif	ication by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL: 1450	Ft E of WL: 1150	Ft S of NL:
	Ground elevation: 600.0	Depth to bedrock: 32.0	Bedrock elevation: 568.0	Aquifier elevation:
	UTM Easting: 537409.0		UTM Northing: 43000	35.0
Well Log	Top Bott	om Formation		

Well Log	Тор	Bottom	Formation	
	0.0	32.0	CLAY	
	32.0	45.0	BLUE LIME	
	45.0	66.0	LIME	
	66.0	67.0	SHELL	
	67.0	75.0	MED LIME	
	75.0	95.0	HARD LIME	
	95.0	114.0	MED LIME	
	114.0	122.0	SOFTLIME	
	122.0	135.0	MEO LIME	
	135.0	152.0	BROWNLIME	
	152.0	155.0	HARD LIME	
	155.0	170.0	MCDLIME	

Comments

MC570; VERIFIED BY OWNER

155

Reference Number	Driving direction	ns to well		The second secon	Date completed
217950	FROM BEDFORD GOING WEST ON 450 GO APPROX 5 MI CROSS SALT CREEK 1ST RD ON RIGHT. 9TH HOUSE ON RIGHT ON THIS ROAD			Fri, Mar 10, 1967	
Owner-Contractor Well Owner	<i>Name</i> J. NORDHOFF		Address		Telephone
Building Contractor Drilling Contractor	LOUIE O. SMIT	Н	R1 BEDFORD, IN		
Equipment Operator	LOUIE O. SMIT	Н	License:		
Construction Details					
Well	Use: HOME		Drilling method: CABLE TO	OL Pump type:	
	Depth: 160.0		Pump setting depth:	Water quality	
Casing Screen	Length: 46.0 Length:		Material: Material:	Diameter: 6. Diameter: SI	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest r	ate: 0.5 gpm for 1.0 hrs.
	Drawdown: ft.		Static water level: 77.	O ft.	
Grouting Information	Material: Installation Meth	nod:		Depth: from to  Number of bags used:	
Vell Abandonment	Sealing material:				
veu Avanuonment	Installation Meth			Depth: from to Number of bags used:	,
dministrative	County: LAWRE	NCE		Township: 5N Range	
	Section: NE 1/4 o	of the SW 1/4 of	of the SW 1/4 of Section 19		<i>Topo map:</i> BEDFORD WEST
	Field located by:	PW		on: Wed, Aug 18, 197	<i>'</i> 1
	Courthouse locat	ion by:		on:	
	Location accepted	d w/o verificat	ion by:	on:	
	Subdivision name	<b>:</b> :		Lot number:	
	Ft W of EL:		Ft N of SL: 1300	Ft E of WL: 1550	Ft S of NL:
	Ground elevation	: 600 0	Depth to bedrock: 45.0	Bedrock elevation: 555.0	Aquifier elevation:
	UTM Easting: 53	7525 0		UTM Northing: 42999	986.0
ell Log	Тор	Bottom	Formation		
	0.0	40.0	CLAY		
	40.0	50.0	SOFT LIME		
	50.0	55.0	HARD LIME		
	55.0	60.0	MED LIME		
	60.0	66.0	HARD LIME		
	66.0	67 ()	BLUE SHELL		
	67.0	70.0	HARD LIME		
	70.0	77.0	SHELL & I.IM	E	
	77.0	, 50.0	LIME		

#### Indiana Department of Natural Resources

Reference	Number
A1505	

Driving directions to well

Date completed

Telephone

217955

FROM BEDFORD TURN LEFT ON 450 TURN RIGHT 1ST RD TO RIGHT AFTER CROSSING SALT CREEK GO .5 MI TURN RIGHT 3RD NEW HOUSE ON LEFT

(W/STONE FRONT)

Wed, Nov 20, 1968

Owner-Contractor

Well Owner **Building Contractor Drilling Contractor** 

Name TOM NORDHOFF Address **BEDFORD** 

License:

Material:

LOUIE O. SMITH LOUIE O. SMITH R1 BEDFORD

**Equipment Operator** 

Construction Details

Well

Casing

Screen

Depth: 204.0 Length: 73.0 Length:

Use: HOME

Drilling method: CABLE TOOL

Material:

Pump setting depth:

Water quality: Diameter: 6.25 Diameter: Slot size:

Pump type:

Well Capacity Test

Type of test: Drawdown: ft.

Test rate: gpm for hrs. Static water level: 114.0 ft. BailTest rate: 0.5 gpm for 2.0 hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

on:

Administrative

County: LAWRENCE

Section: NE 1/4 of the SW 1/4 of the SW 1/4 of Section 19

Township: 5N Range: 1W

on: Tue, Aug 18, 1970

Topo map: BEDFORD

WEST

Field located by: PW

Courthouse location by: Location accepted w/o verification by:

Subdivision name:

Ft W of EL.

MC 590

Ft N of SL: 1200

Ft E of WL: 1300

Ft S of NL:

Ground elevation: 610.0

Depth to bedrock: 20.0

Bedrock elevation: 590.0

Lot number:

Aquifier elevation:

UTM Easting: 537464.0

UTM Northing: 4429968 0

Well Log

Тор	Bottom	Formation	
0.0	20 0	CLAY	
20.0	39.0	BROKEN	
39 0	62 0	LIME	
62.0	63.0	SEAM	
63.0	69.0	LIME	
69 0	70 o	SEAM	
70 0	75.0	BROKEN	
75 0	85.0	HARD LIME	
85 0	145 ()	MEDLIME	
145.0	190 (1	BROWN LIME	
160 0	205 0	WHITE LIME	

Comments

\* X :-

#### Indiana Department of Natural Resources

Reference Nu	mbe
217960	
_	

Driving directions to well

FROM FAYETTEVILLE GOING S ABOUT 2MI. WELL BE 2 RDS, TURN OFF ABOUT

SAME TIME, TURN 2ND Y. TURN 1ST RD L 2ND HOUSE.

Sat, Mar 30, 1968

Date completed

Owner-Contractor Well Owner

Name DONNIE NORDHOFF Address **BEDFORD** 

Material:

Telephone

**Building Contractor** Drilling Contractor **Equipment Operator** 

LOUIE SMITH LOUIE SMITH

R#1, BEDFORD License:

Construction Details

Well

Use: HOME Depth: 185.0

Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality: Diameter: 6.25 Diameter: Slot size:

Casing Screen Length: 24.0 Length:

Material: Test rate: gpm for hrs.

Static water level: 135.0 ft.

BailTest rate: 5.0 gpm for 2.0 hrs.

**Grouting Information** 

Well Capacity Test

Material:

Type of test:

Drawdown: ft.

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installction Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the SW 1/4 of the SW 1/4 of Section 19

Township: 5N Range: 1W

Topo map: BEDFORD

WEST on: Wed, Aug 18, 1971

Field located by: PW

Courthouse location by: Location accepted w/o verification by: on:

on:

Subdivision name:

Ft W of EL:

Ft N of SL: 1000

Ft E of WL: 1350

Ft S of NL:

Ground elevation: 600 0

Depth to bedrock: 15.0

Bedrock elevation:

Lot number:

Aquifier elevation:

UTM Easting: 537470 0

585.0

UTM Northing: 4299913 0

Well Log

Тор	Bottom	Formation
0 0	15.0	CLAY
15 0	20 0	SHELL
20 0	35 0	SOFT LIME
350	65 0	MDLIME
65 0	78 0	HARD LIME
78 0	165 0	MD LIME
165 0	185 0	MD SOFT LIME GRAY

Comments

MC 585, VERIFIED BY OWNER;

#### **Indiana Department of Natural Resources**

Reference Number 220859

Driving directions to well

Date completed

**EUREKA IN** 

Tue, Oct 20, 1964

Owner-Contractor Well Owner **Building Contractor** Drilling Contractor

Name JAMES E. TERRY Address 1507 2ND ST Telephone

Equipment Operator

**EUGENE & CHARLES UMPHRESS** 

ERNIE UMPHRESS & SONS RR6, BOS 13, BEDFORD IN

License:

Construction Details

Well

Casing

Screen

Use: HOME Depth: 91 0 Length: 39 5 Length:

Drilling method: CABLE TOOL Pump setting depth:

Water quality: Material: Diameter: 60 Material: Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft Test rate: gpm for hrs Static water level: 48 0 ft BailTest rate: gpm for hrs

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NE 1/4 of the NE 1/4 of the NW 1/4 of Section 18

Field located by: JCH Courthouse location by: Location accepted w/o verification by:

Subdivision name:

Ft W of EL:

Ft N of SL: 4900

Depth to bedrock: 35 0

Township: 5N Range: 1W

Pump type:

Topo map: BEDFORD

WEST

on: Mon, Aug 01, 1966

on: on:

Lot number

Ft E of WL: 2450

Ft S of NL:

Bedrock elevation:

Aquifier elevation:

Ground elevation: 650 0 UTM Easting: 537823 0

UTM Northing: 4302687 0

Well Log

Гор	Bottom	Formation
0 0	29 0	DIRT
29 0	34 0	BOULDERS & MUD HOLES
31 0	67 0	BLUE LS SOFT
670	73 0	GRAY LS HARD
73 0	91 0	BLUE LS HARI)

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#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

Telephone

220864

WEST EDGE OF EUREKA, IN

Wed, Sep 26, 1962

Owner-Contractor Well Owner **Building Contractor**  Name **CHARLES KILLIAN**  Address RR2 BEDFORD, IN

**Drilling Contractor Equipment Operator** 

ERNIE UMPHRESS & SONS RR6 BEDFORD, IN **EUGENE & CHARLES UMPHRESS** 

License:

**Construction Details** 

Well

Use: HOME Depth: 93.0 Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality: Diameter: 6.0 Diameter: Slot size:

Casing Screen Length: 51.5 Length:

Material: Material:

Type of test: Well Capacity Test

Drawdown: ft.

Test rate: gpm for hrs. Static water level: 21.0 ft. BailTest rate: 3.0 gpm for hrs.

**Grouting Information** 

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method:

Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the SE 1/4 of the NW 1/4 of Section 18

Township: 5N Range: 1W

Topo map: BEDFORD WEST on: Tue. Oct 01, 1963

Field located by:

Courthouse location by: Location accepted w/o verification by:

on:

on:

Subdivision name:

Ft W of EL:

Ft N of SL: 3300

Lot number: Ft E of WL: 1600

Ground elevation: 625.0

Depth to bedrack:

Bedrock elevation: Aquifier elevation:

Ft S of NL:

UTM Easting: 537543.0

UTM Northing: 4302151 0

Well Log

Тор	Bottom	Formation	
0.0	31.0	DIRT	
310	47.0	MUD HOLES & BOULDERS	
47.0	58.0	BLUE LS HARD	
58.0	83.0	GRAY LS HARD	
83 0	93.0	BLUE LS HARD	



MC;

Reference Number	Driving directions to well		Date completed		
220869	ON SR 158 W OF EUREK	ON SR 158 W OF EUREKA ABOUT .5 MI.			
Owner-Contractor Well Owner	<i>Name</i> KERMIT WILLIAMS	<i>Address</i> RR2, BEDFORD IN	Telephone		
Building Contractor Drilling Contractor	FRNIF HMPHRESS & SO	NS RR6, BOS 13, BEDFORD IN	J		
Equipment Operator	ERNIE UMPHRESS & SO		•		
Construction Details					
Well	Use: HOME	Drilling method: CABLE TO	<del>-</del>		
	Depth: 125.0	Pump setting depth:	Water quality:		
Casing Screen	Length: 41.0 Length:	Material: Material:	Diameter: 6.0 Diameter: Slot size:		
Well Capacity Test	Type of test:	Test rate: gpm for hr		.0 hrs.	
	Drawdown: ft.	Static water level: 80	).O ft.		
Grouting Information	Material:		Depth: from to		
	Installation Method:		Number of bags used:		
Well Abandonment	Sealing material: Installation Method:		Depth: from to Number of bags used:		
Administrative	County: LAWRENCE		Township: 5N Range: 1W		
		/4 of the NW 1/4 of Section 18	Topo map: BEDFO	ORD WES	
	Field located by: BAINS		on: Fri, Jul 01, 1960		
	Courthouse location by:		on:		
	Location accepted w/o verij	ication by:	on:		
	Subdivision name:		Lot number:		
	Ft W of EL:	Ft N of SL: 2600	Ft E of WL: 1550 Ft S of NL:		
	Ground elevation: 630.0	Depth to bedrock:	Bedrock elevation: Aquifier elevation:	•	
	UTM Easting: 537555.0		UTM Northing: 4302004.0		
Well Log	Top Bott	om Formation	×		
	0.0 35.0	DIRT & FLIN	NT ROCK		
	35.0 40.0	SOFT BLUE	SHALE		
	40.0 75.0	WH LIME			
	75.0 80.0	EXTRA SOF	TSHALE		
	80.0 100	0 HARD BLUE	SHALE		

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# Indiana Department of Natural Resources

, ,		-		
Reference Number	Driving directions to well	A THE SE LANGE A THE SE LANGE A THE SECOND COMMENTS	mus e abhaide a destin t to grape material	Date completed
220874	NW CORNER OF SAID QU. AND 17 LINKS 2.5 MI EAST	LE GRAVE RD 18 POLES	Wed, Dec 14, 1960	
Owner-Contractor Well Owner Building Contractor	Name FLOYD WEVER	Address 446		Telephone
Drilling Contractor	ERNIE UMPHRESS & SONS	RR6 BOX 13, BEDFORD, IN		
Equipment Operator	ERNIE UMPHRESS & SONS	License:		
Construction Details				
Well	Use: HOME	Drilling method: CABLE TOOL	Pump type:	
	Depth: 100.0	Pump setting depth:	Water quality	:
Casing Screen	Length: 8.0 Length:	Material: Material:	Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest ra	nte: 0.22 gpm for 1.0 hrs.
	Drawdown: ft.	Static water level: 42.0 ft		
Grouting Information	Material:	D	epth: from to	
	Installation Method:	N	umber of bags used:	
Well Abandonment	Sealing material:		epth: from to	
	Installation Method:	N	umber of bags used:	
Administrative	County: LAWRENCE		Township: 5N Range:	
	Section: SW 1/4 of the SW 1/4	For the SE 1/4 of Section 18		Topo map: BEDFORD EAST
	Field located by: JVH		on: Mon, Aug 01, 196	6
	Courthouse location by:		on:	
	Location accepted w/o verifice Subdivision name:	uton by:	on: Lot number:	
	Ft W of EL: 2300	Ft N of SL: 100	Est number:  Ft E of WL:	Es C of MI.
	Ground elevation: 660.0	Depth to bedrock: 5.0	Bedrock elevation:	Ft S of NL: Aquifier elevation:
	UTM Easting: 538037.0	•	655.0 UTM Northing: 43012	
Well Log	Top Botton	n Formation		
	0.0 60	DIRT		
	6.0 40 0	WHITE LS HARD	•	
	40.0 65.0	BLUE LS HARD		

	0.0	0.0	DIN C
	6.0	40 0	WHITE LS HARD
	40.0	65 0	BLUE LS HARD
	65.0	83.0	WHITE LS HARD
	83.0	100.0	BLUE SHALE
Community			

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# Record of Water Well

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

220879

APP I MI E OF NEDFORD IN

Tue, Aug 06, 1963

. ... . . . . .

Owner-Contractor

Well Owner **Building Contractor** 

**Drilling Contractor Equipment Operator**  Name

GLENN D. WOODY

Address

License:

RR#6, BEDFORD IN

ERNIE UMPHRESS & SONS BEDFORD IN **EUGENE & CHARLES UMPHRESS** 

Telephone

Construction Details

Well

Casing

Screen

Use: HOME

Depth: 200.0

Length: 6.0 Length:

Drilling method: CABLE TOOL

Pump setting depth: Material: Material:

Pump type: Water quality:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 100.0 ft BailTest rate: 0.5 gpm for hrs.

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the NE 1/4 of the SE 1/4 of Section 18

Township: 5N Range: 1W

on: Mon, Aug 01, 1966

Topo map: BEDFORD EAST

Field located by: JCH Courthouse location by:

Location accepted w/o verification by:

on:

Lot number:

on:

Subdivision name: Ft W of EL: 1200

Ft N of SL: 1900

Ft E of WL:

Ft S of NL:

Ground elevation: 560 0

Depth to bedrock: 5.0

Bedrock elevation: 555 0

Aquifier elevation:

UTM Easting: 538360 0

UTM Northing: 4301779.0

Well Log

Lop	Bottom	rormation	
00	2.5	DIRT	
2.5	23 0	BLUE LS HARD	
23.0	51.0	GRAY LS HARD	
51.0	70 0	WH LS HARD	
70.0	103 tt	BLUE LS HARD	
103.0	200 0	<b>BLUE SHALE SOFT</b>	

# 163

# Record of Water Well

Reference Number	Driving direction	ns to well	ap dir dayum-tir. 1544 - 1548bir distilation — 46 februarenteine	nda o nyiét ndije in dhâmin a djana vasiman, a, mi	Date completed
220884	.25 MI N OF EURE		ILE.		Sat, Jul 25, 1964
Owner-Contractor Well Owner Building Contractor	<i>Name</i> RONNIE WALL		Address BEDFORD IN		Telephone
Drilling Contractor	EUGENE & CH	ARLES F	RR6, BOX 13,BEDFORD IN		
Equipment Operator	EUGENE & CH. UMPHRESS	ARLES 1	License:		
Construction Details					
Well	Use: HOME	ı	Orilling method: CABLE TOO	L Pump type:	
	Depth: 151.0	I	Pump setting depth:	Water quality	:
Casing Screen	Length: 52.0 Length:		Material: Material:	Diameter: 6.0 Diameter: Slo	
Well Capacity Test	Type of test: Drawdown: ft.		Test rate: gpm for hrs. Static water level: 50.0		ate: 2.0 gpm for hrs.
Grouting Information	Material: Installation Meti	hod:		Depth: from to Number of bags used:	
Well Abandonment	Sealing material Installation Met			Depth: from to Number of bags used:	
Administrative	County: LAWRE		the NW 1/4 of Section 18	Township: 5N Range:	IW <i>Topo map:</i> BEDFORD WEST
	Field located by:	JCH		on: Mon, Aug 01, 196	
	Courthouse local			on:	
	Location accepte	-	on by:	on:	
	Subdivision name	•	•	Lot number:	
	Ft W of EL: 2650		Ft N of SL: 4700	Ft E of WL:	Ft S of NL
	Ground elevation		Depth to bedrock: 20.0	Bedrock elevation: 610.0	Aquifier clevation:
	UTM Easting: 53	7927 0		UTM Northing: 43026	514.0
Well Log	Гор	Bottom	Formation		
	0.0	18 0	DIRT		
	180	44.0	LS BOULDERS	& MUD HOLES	
	44 0	57.0	BLUE LS SOFT	•	
	57.0	73 0	GRAY LS SOFT	Γ	
	73.0	86 0	BLUE LS HARI		
	86.0	134.0	GRAY LS SOFT		
	134.0	151.0	WH LS SOFT		
Comments	Nic 610,	n week en	AND	Mad December 25 St. or or	

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# Record of Water Well

164

Reference Number	Driving directions to well	LE pro mprime annimento de s	Martin a to the strict of the control of the contro	Date completed
220889	EUREKA IN, S SIDE OF RI	<b>D</b> .		Mon, Sep 13, 1965
Owner-Contractor Well Owner	<i>Name</i> JAMES MOSIER	Address BEDFORD IN		Telephone
Building Contractor  Orilling Contractor	ERNIE UMPHRESS & SON	S RR6, BOX 13,BEDFORD IN		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License:		
onstruction Details				
Vell	Use: HOME	Drilling method: CABLE TOOL	Pump type:	
	Depth: 137.0	Pump setting depth:	Water quality	
asing creen	Length: 35.5 Length:	Material: Material:	Diameter: 6.0 Diameter: Slo	
Vell Capacity Test	Type of test: Drawdown: ft.	Test rate: gpm for hrs. Static water level: 20.0 ft.	BailTest ra	ue: 0.75 gpm for hrs.
Frouting Information	Material: Installation Method:		epth: from to umber of bags used:	
Vell Abandonment	Sealing material: Installation Method:		epth: from to umber of bags uveil:	
dministrative	County: LAWRENCE		Township: 5N Range:	ıw
	Section: NE 1/4 of the SE 1/4	of the NW 1/4 of Section 18		Topo map: BEDFORI WEST
	Field located by: JCH		on: Mon, Aug 01, 196	6
	Courthouse location by:		on:	
	Location accepted w/o verific	cation by:	on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL: 3500	Ft E of WL: 2400	Ft S of NL:
	Ground elevation: 620.0	Depth to bedrock: 25 0	Bedrock elevation: 595 0	Aquifier elevation:
	UTM Easting: 537811.0		UTM Northing: 43022	236 0
ell Log	Top Botto			
	0 0 24.0	DIRT		
	24 0 27 0	BROKEN LS SOF	Т	
	27 0 33.0	GRAY LS HARD		
	33 0 64.0	BLUE LS SOFT		
	64 () 67.0	BROKEN LS SOF	т	
	67 () 89.0	BLUE LS HARD		
	89 0 108.0	GRAY LS SOFT		
	108 () 124 0			•

#### . 450 I VI I

# Record of Water Well

165

Antenana Doparanione or Fractar Accounted

Reference Number	Driving directions to wel	!	Richtson () State (L. St. v) - Mand Adv. Andread (J. C. M.) Table (L. St. V) - Mand (Adv. Andread (J. C. M.) Table (L. St. V) - Mand (Adv. Andread (J. C. M.) Table (L. St. V) - Mand (Adv. Andread (J. C. M.) Table (L. St. V) - Mand (Adv. Andread (J. C. M.) Table (L. St. V) - Mand (Adv. Andread (J. C. M.) Table (L. St. V) - Mand (Adv. Andread (J. C. M.) Table (L. St. V) - Mand (Adv. Andread (J. C. M.) Table (L. St. V) - Mand (Adv. Andread (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (J. C. M.) Table (L. St. V) - Mand (J. C. M.) Table (J. C	। কৰা <sub>প</sub> ৰিচে কৰিছে ক চণ্ড ৰ পৰ পৰ পৰিচৰক।	Date completed
220894	EUREKA IN				Fn, Feb 10, 1967
Owner-Contractor	Name	Address			Telephone
Vell Owner Building Contractor	JAMES TERRY	BEDFO	RDIN		
Onlling Contractor	ERNIE UMPHRESS & S	ONS RR6, B	OX 13,BEDFORD IN		
Equipment Operator	EUGENE & CHARLES UMPHRESS	License	:		
Construction Details					
Vell	Use: HOME	_	method: CABLE TOOL	Pump type:	
	Depth: 90 0		etting depth:	Water qualit	
Casing Screen	Length: 49.0 Length:	Materia Materia		Diameter: 6. Diameter: Si	
Well Capacity Test	Type of test:		Test rate: gpm for hrs.	BailTest 1	rate: 4.0 gpm for hrs.
	Drawdown: ft.	•	Static water level: 65 0 ft		
Grouting Information	Material:		De	epth: from to	
	Installation Method:		Nı	umber of bags used:	
Vell Abandonment	Sealing material:		De	<i>pth:</i> from to	
	Installation Method:		Nı	umber of bags used:	
dministrative	County: LAWRENCE			Township: 5N Range	
	Section: SW 1/4 of the N	W 1/4 of the N	E 1/4 of Section 18		Topo map: BEDFORD WEST
	Field located by: PW			on: Tue, Aug 17, 197	ני
	Courthouse location by:			on:	
	Location accepted w/o ve	rification by:		on:	
	Subdivision name:			Lot number:	
	Ft W of EL: 2150	Ft !	<b>V of SL</b> : 3950	Ft E of WL:	Ft S of NL:
	Ground elevation: 625.0	Dep	oth to bedrock: 39 0	Bedrock elevation: 586 0	Aquifier elevation:
	UTM Easting: 538073 0			UTM Northing: 4302	2407 0
Vell Log	Top Be	ottom	Formation		
	0 0 30	0.0	DIRT		
	30 0 39	0	BOULDERS & MI	UDHOLES	
	39 0 68	0	BUTE LS SOFT		
	68 0 75	0	GRAY ES HARD		

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#### Record of Water Well

#### Indiana Department of Natural Resources

Reference	Number
22089	9

Driving directions to well

Date completed

FROM BEDFORD GO WEST APPROX. 5MI ON 158, ACROSS RD FROM NEW UNION

**CHRISTIAN CHURCH** 

Thu, Mar 18, 1965

~~~ · · · ·

Owner-Contractor Well Owner Building Contractor Drilling Contractor Equipment Operator

Name JAKE MULLIS Address **R2 BEDFORD**  Telephone

LOUIE O. SMITH LOUIE O. SMITH RI BEDFORD License:

Construction Details

Weil

Use: HOME Depth: 205.0 Length: 35.0

Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality: Diameter: 6.25

Casing Screen Length:

Material: Material:

Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft.

Test rate: gpm for hrs. Static water level: 120.0 ft. BailTest rate: 0.5 gpm for 4.0 hrs.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the NE 1/4 of the NE 1/4 of Section 18

Township: 5N Range: 1W

on: Mon, Aug 01, 1966

Topo map: BEDFORD WEST

Field located by: JVH

Courthouse location by:

Location accepted w/o verification by:

on: on:

Subdivision name: Ft W of EL: 800

Ft N of SL: 4100

Lot number:

Ft E of WL:

Ft S of NL:

Ground elevation: 650.0

Depth to bedrock: 300

Bedrock elevation:

Aquifier elevation:

UTM Easting: 538494.0

UTM Northing: 4302443.0

Well Log

| lop   | Bottom | Formation  |
|-------|--------|------------|
| 0.0   | 30 0   | CLAY       |
| 30.0  | 70 0   | BROWN LIME |
| 70.0  | 90 0   | GRAY LIME  |
| 90.0  | 1200   | LIGHT GRAY |
| 120.0 | 155 0  | DARK LIME  |
| 155.0 | 202 0  | WHITE LIME |
| 202 0 | 205 0  | HARD LIMF  |
|       |        |            |

MC620 Comments

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| Reference Number                         | Driving directions                                                          | to well                | ur ursuur erette er bilderiche byter glas 150.0 |                                     | Date completed                   |  |  |
|------------------------------------------|-----------------------------------------------------------------------------|------------------------|-------------------------------------------------|-------------------------------------|----------------------------------|--|--|
| 220904                                   | APPROX 5 MI W                                                               | IGHT Mon, Jun 21, 1965 |                                                 |                                     |                                  |  |  |
| Owner-Contractor Well Owner              | Name<br>LESLIE GRISSOM                                                      |                        | <i>Address</i><br>R2 BEDFORD                    |                                     | Telephone                        |  |  |
| Building Contractor  Drilling Contractor | LOUIE O. SMITH                                                              |                        | R1 BEDFORD                                      |                                     |                                  |  |  |
| Equipment Operator                       | LOUIE O. SMITH                                                              |                        | License.                                        |                                     |                                  |  |  |
| Construction Details                     |                                                                             |                        |                                                 |                                     |                                  |  |  |
| Vell                                     | Use: HOME                                                                   |                        | Drilling method: CABLE TOC                      | <del>-</del>                        | ••                               |  |  |
| Casing                                   | Depth: 187.0<br>Length: 36.0                                                |                        | Pump setting depth:<br>Material:                |                                     | quality:<br>ter: 6.25            |  |  |
| Gereen                                   | Length:                                                                     |                        | Material:                                       |                                     | ter: Slot size:                  |  |  |
| Vell Capacity Test                       | Type of test:<br>Drawdown: ft.                                              |                        |                                                 |                                     | ITest rate: 1.5 gpm for 3 0 hrs. |  |  |
| Grouting Information                     | Material:<br>Installation Metho                                             | a.                     |                                                 | Depth: from to Number of bags used: |                                  |  |  |
|                                          | instantation method                                                         | <b>4.</b>              |                                                 | Number of bugs useu.                |                                  |  |  |
| Well Abandonment                         | Sealing material:<br>Installation Metho                                     | d:                     |                                                 | Depth: from to Number of bags used: |                                  |  |  |
| Ldministrative                           | County: LAWRENCE  Section: NW 1/4 of the NW 1/4 of the NE 1/4 of Section 18 |                        | Township: 5N                                    | Range: IW  Topo map: BEDFORD  WEST  |                                  |  |  |
|                                          | Field located by: JVH                                                       |                        |                                                 | on: Mon, Aug (                      | on: Mon. Aug 01, 1966            |  |  |
|                                          | Courthouse locatio                                                          |                        |                                                 | on:                                 |                                  |  |  |
|                                          | Location accepted w/o verification                                          |                        | on by:                                          | on:                                 |                                  |  |  |
|                                          | Subdivision name:                                                           |                        |                                                 | Lot number:                         |                                  |  |  |
|                                          | Ft W of EL: 2500                                                            |                        | Ft N of SL: 4600                                | Ft E of WL:                         | Ft S of NL:                      |  |  |
|                                          | Ground elevation:                                                           | 630 0                  | Depth to bedrock: 35 0                          | <b>Bedrock elevati</b><br>595 0     | ion: Aquifier elevation.         |  |  |
|                                          | UTM Easting: 5379                                                           | 933 0                  |                                                 | UTM Northing                        | : 4302541 0                      |  |  |
| ell Log                                  | Тор                                                                         | Bottom                 | Formation                                       |                                     |                                  |  |  |
|                                          | 0 0                                                                         | 35 0                   | CLAY                                            |                                     |                                  |  |  |
|                                          | 35 0                                                                        | 40 0                   | SOFTLIME                                        |                                     |                                  |  |  |
|                                          | 40 0                                                                        | 420                    | GRAY LIME                                       |                                     |                                  |  |  |
|                                          | 42 0                                                                        | 63 0                   | BROWNLIME                                       |                                     |                                  |  |  |
|                                          | 63.0                                                                        | 64 0                   | BLANK                                           |                                     |                                  |  |  |
|                                          | 64.0                                                                        | 68 0                   | HARD LIME                                       |                                     |                                  |  |  |
|                                          | 68 0                                                                        | 71 0                   | SHFII                                           |                                     |                                  |  |  |
|                                          | 71 0                                                                        | 74 0                   | LIME                                            |                                     |                                  |  |  |
|                                          | 74 0                                                                        | <b>7</b> 7 0           | SHELL                                           |                                     |                                  |  |  |
|                                          | 77 0                                                                        | 90 0                   | HARD) IMF                                       |                                     |                                  |  |  |
|                                          | 90 0                                                                        | 140 0                  | WHITELIME                                       |                                     |                                  |  |  |
|                                          |                                                                             |                        |                                                 |                                     |                                  |  |  |
|                                          | 140 0                                                                       | 1850                   | (1R4+11NF                                       |                                     |                                  |  |  |

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# **Record of Water Well**

| Reference Number                           | Driving directions to well                     | na districtiva ya mistri in katabi di Saga, 1985 ini nada, dikuasakkeen inga ya B | 41 Verice of the 1984 - PROBER AND | Date completed       |
|--------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------|
| 220919                                     | APP 3 MI W OF BEDFORD I                        | N ON SR450, S SIDE OF RD.                                                         |                                                                        | Fri, Nov 19, 1965    |
| Owner-Contractor Well Owner                | <i>Name</i><br>CHARLES E. HILLENBURG           | Address<br>RR2. BEDFORD IN                                                        |                                                                        | Telephone            |
| Building Contractor<br>Drilling Contractor |                                                | RR6, BOX 13,BEDFORD IN                                                            |                                                                        |                      |
| Equipment Operator                         | EUGENE & CHARLES<br>UMPHRESS                   | License:                                                                          |                                                                        |                      |
| Construction Details                       |                                                |                                                                                   |                                                                        |                      |
| Well                                       | Use: HOME                                      | Drilling method: CABLE TOO                                                        |                                                                        |                      |
|                                            | Depth: 137.0                                   | Pump setting depth:                                                               | Water quality:                                                         |                      |
| Casing<br>Screen                           | Length: 18.5<br>Length:                        | Material:<br>Material:                                                            | Diameter: 6.0<br>Diameter: Slo                                         |                      |
| Well Capacity Test                         | Type of test: Drawdown: ft.                    | Test rate: gpm for hrs. Static water level: 42.0                                  |                                                                        | te: 5.0 gpm for hrs. |
| Grouting Information                       | Material:<br>Installation Method:              |                                                                                   | Depth: from to<br>Number of bags used:                                 |                      |
| Well Abandonment                           | Sealing material:<br>Installation Method:      | Depth: from to  Number of bags used:                                              |                                                                        |                      |
| Administrative                             | County: LAWRENCE                               | 5.1 694.14 55 2 10                                                                | Township: 5N Range:                                                    | IW Topo map: BEDFORD |
|                                            | Section: NE 1/4 of the NW 1/4                  | of the SW 1/4 of Section 18                                                       | and Man. Ava 01, 1066                                                  | WEST                 |
|                                            | Field located by: JCH  Courthouse location by: |                                                                                   | on: Mon, Aug 01, 1966                                                  | •                    |
|                                            | Location accepted w/o verifica                 | tion hu                                                                           | on:<br>on:                                                             |                      |
|                                            | Subdivision name:                              | non by.                                                                           | Lot number:                                                            |                      |
|                                            | Ft W of EL:                                    | Ft N of SL: 2400                                                                  | Ft E of WL: 1600                                                       | Ft S of NL:          |
|                                            | Ground elevation: 630 0                        | Depth to bedrock: 15.0                                                            | Bedrock elevation:                                                     | Aquifier elevation:  |
|                                            | UTM Easting: 537531 0                          | - <b>-</b>                                                                        | 615.0<br>UTM Northing: 43019                                           |                      |
| Well Log                                   | Top Bottom                                     | Formation                                                                         |                                                                        |                      |
|                                            | 0.0 7 0                                        | DIRT                                                                              |                                                                        |                      |
|                                            | 70 150                                         | BOULDERS & N                                                                      | AUD HOLES                                                              |                      |
|                                            | 15.0 34.6                                      | GRAY LS HARI                                                                      | )                                                                      |                      |
|                                            | 34.0 48.0                                      | WH LS SOFT                                                                        |                                                                        |                      |
|                                            | 48 0 60 n                                      | BLUE LS SOFT                                                                      |                                                                        |                      |
|                                            | 60 0 96 9                                      | BR LS SOFT                                                                        |                                                                        |                      |
|                                            | 96.0                                           | GRAY LS SOFT                                                                      |                                                                        |                      |
|                                            | 112.0                                          | BLUE LS HARD                                                                      |                                                                        |                      |
| Comments                                   | MC 615.                                        |                                                                                   |                                                                        |                      |

#### Indiana Department of Natural Resources

Reference Number 220924

Driving directions to well

Date completed

APP 2.5 MI W OF BEDFORD IN.

Tue, Jan 28, 1964

- -- - - - - -

Owner-Contractor Well Owner **Building Contractor Drilling Contractor** 

Name ELIZABETH DONALDSON

Address BEDFORD IN, RR2 Telephone

**EUGENE & CHARLES Equipment Operator UMPHRESS** 

ERNIE UMPHRESS & SONS RR6, BOX 13,BEDFORD IN

License:

Material:

Construction Details

Well

Use: HOME Depth: 140.0 Drilling method: CABLE TOOL

Pump type: Water quality: Diameter: 6.0

Diameter: Slot size:

Casing Screen

Length: 23.0 Length:

Material: Test rate: gpm for hrs.

Pump setting depth:

BailTest rate: 0.08 gpm for hrs.

Well Capacity Test

Type of test: Drawdown: ft.

Static water level: 70.0 ft.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the NW 1/4 of the SE 1/4 of Section 17

Township: 5N Range: 1W

Topo map: BEDFORD

Field located by: JCH

Courthouse location by:

on: Mon, Aug 01, 1966 on:

Location accepted w/o verification by: on:

Subdivision name: Ft W of EL: 2600

Ft N of SL: 2500

Lot number: Ft E of WL:

5900

Ft S of NL:

Ground elevation: 610.0

Depth to bedrock: 20.0

Bedrock elevation:

Aquifier elevation:

UTM Easting: 539530.0

UTM Northing: 4301974 0

Well Log

| Гор         | Bottom | Formation            |
|-------------|--------|----------------------|
| 0.0         | 12.0   | DIRT                 |
| 120         | 20.0   | BROKEN LS & BOULDERS |
| 20 0        | 63.0   | BLUE LS HARD         |
| 63 0        | 71.0   | GRAY LS SOFT         |
| 71 0        | 77.0   | BLUE LS HARD         |
| 77 <b>0</b> | 118.0  | WH LS SOFT           |
| 1180        | 132.0  | GRAY LS HARD         |
| 132.0       | 140.0  | BLUE LS HARD         |
| MC 590:     |        |                      |



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# Record of Water Well

# Indiana Department of Natural Resources

| Reference Number                       | Driving directions to wel                                                                                                                                                                                                                                     | i                                      |                                                                                    |                                | Date completed                     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------|--------------------------------|------------------------------------|
| 220929                                 | 100' SW OF TILE BLOC<br>NEW BRIDGE ON FAY                                                                                                                                                                                                                     | Thu, Nov 16, 1961                      |                                                                                    |                                |                                    |
| Owner-Contractor Vell Owner            | Name<br>HUGH SCHENSCHEL                                                                                                                                                                                                                                       | <i>Add</i> i<br>RR2                    | ress<br>BEDFORD, IN                                                                |                                | Telephone                          |
| uilding Contractor Prilling Contractor | ERNIE UMPHRESS & S                                                                                                                                                                                                                                            | ONS BED                                | FORD, IN RR6                                                                       |                                |                                    |
| quipment Operator                      | ERNIE UMPHRESS & S                                                                                                                                                                                                                                            |                                        |                                                                                    |                                |                                    |
| onstruction Details                    |                                                                                                                                                                                                                                                               |                                        |                                                                                    |                                |                                    |
| /ell                                   | Use: STOCK                                                                                                                                                                                                                                                    | Drill                                  | ling method: CABLE TOOL                                                            | Pump type:                     |                                    |
|                                        | Depth: 175.0                                                                                                                                                                                                                                                  |                                        | p setting depth:                                                                   | Water quality                  |                                    |
| asing<br>creen                         | Length: 27.0<br>Length:                                                                                                                                                                                                                                       | Mate<br>Mate                           |                                                                                    | Diameter: 6.0<br>Diameter: Slo |                                    |
| Vell Capacity Test                     | Type of test:<br>Drawdown: ft.                                                                                                                                                                                                                                |                                        | Test rate: gpm for hrs.  Static water level: 55.0 ft.                              | BailTest r                     | nte: 0.75 gpm for 1.0 hrs.         |
| routing Information                    | Material:                                                                                                                                                                                                                                                     |                                        | Dept                                                                               | th: from to                    |                                    |
|                                        | Installation Method:                                                                                                                                                                                                                                          |                                        | Nun                                                                                | nber of bags used:             |                                    |
| ell Abandonment                        | Sealing material:<br>Installation Method:                                                                                                                                                                                                                     |                                        |                                                                                    | th: from to ther of bags used: |                                    |
| dministrative                          | County: LAWRENCE                                                                                                                                                                                                                                              |                                        |                                                                                    | Township: 5N Range             | : 1W                               |
|                                        | Section: NW 1/4 of the S                                                                                                                                                                                                                                      | W 1/4 of th                            | e NE 1/4 of Section 17                                                             |                                | Topo map: BEDFORD WES              |
|                                        | Field located by:                                                                                                                                                                                                                                             |                                        |                                                                                    | on: Tue, Oct 01, 1963          |                                    |
|                                        | Courthouse location by:                                                                                                                                                                                                                                       |                                        |                                                                                    | on:                            |                                    |
|                                        | Location accepted w/o ve                                                                                                                                                                                                                                      | rification b                           | y:                                                                                 | on:                            |                                    |
|                                        | Subdivision name:                                                                                                                                                                                                                                             |                                        |                                                                                    | Lot number:                    |                                    |
|                                        | Data toto manter                                                                                                                                                                                                                                              |                                        |                                                                                    |                                |                                    |
|                                        | Ft W of EL: 2200                                                                                                                                                                                                                                              |                                        | Ft N of SL: 3500                                                                   | Ft E of WL:                    | Ft S of NL:                        |
|                                        |                                                                                                                                                                                                                                                               |                                        | Ft N of SL: 3500  Depth to bedrock:                                                | •                              | Ft S of NL:<br>Aquifier elevation: |
|                                        | Ft W of EL: 2200                                                                                                                                                                                                                                              |                                        | -                                                                                  | •                              | Aquifier elevation:                |
| 'ell Log                               | Ft W of EL: 2200<br>Ground elevation: 560.0<br>UTM Easting: 539652.0                                                                                                                                                                                          | ottom                                  | -                                                                                  | Bedrock elevation:             | Aquifier elevation:                |
| vell Log                               | Ft W of EL: 2200 Ground elevation: 560.0 UTM Easting: 539652.0 Top Be                                                                                                                                                                                         | ottom                                  | Depth to bedrock:                                                                  | Bedrock elevation:             | Aquifier elevation:                |
| 'ell Log                               | Ft W of EL: 2200         Ground elevation: 560.0         UTM Easting: 539652.0         Top       Bot 0.0         0.0       23                                                                                                                                 |                                        | Depth to bedrock: Formation                                                        | Bedrock elevation:             | Aquifier elevation:                |
| 'ell Log                               | Ft W of EL: 2200         Ground elevation: 560.0         UTM Easting: 539652.0         Top       Be         0.0       23         23 0       30                                                                                                                | 3.0                                    | Depth to bedrock: Formation DIRT                                                   | Bedrock elevation:             | Aquifier elevation:                |
| 'ell Log                               | Ft W of EL: 2200         Ground elevation: 560.0         UTM Easting: 539652.0         Top       Be         0.0       23         23 0       30         30.0       40                                                                                          | 3.0<br>3.0                             | Pormation DIRT BLUE LS HARD                                                        | Bedrock elevation:             | Aquifier elevation:                |
| 'ell Log                               | Ft W of EL: 2200         Ground elevation: 560.0         UTM Easting: 539652.0         Top       Bo         0.0       23         23 0       30         30.0       40         40 0       62                                                                    | 3.0<br>9.0<br>9.0                      | Pormation DIRT BLUE LS HARD GRAY LS HARD                                           | Bedrock elevation:             | Aquifier elevation:                |
| vell Log                               | Ft W of EL: 2200         Ground elevation: 560.0         UTM Easting: 539652.0         Top       Br         0.0       23         23 0       30         30.0       40         40 0       62         62 0       68                                              | 3.0<br>9.0<br>9.0<br>9.0               | Formation DIRT BLUE LS HARD GRAY LS HARD BROWN LS SOFT                             | Bedrock elevation:             | Aquifier elevation:                |
| Vell Log                               | Ft W of EL: 2200         Ground elevation: 560.0         UTM Easting: 539652.0         Top       Bo         0.0       23         23 0       30         30.0       40         40 0       62         62 0       68         68 0       12                        | 3.0<br>9.0<br>9.0<br>9.0<br>9.0        | Formation DIRT BLUE LS HARD GRAY LS HARD BROWN LS SOFT BROKEN LS SOFT              | Bedrock elevation:             | Aquifier elevation:                |
| iell Log                               | Ft W of EL: 2200         Ground elevation: 560.0         UTM Easting: 539652.0         Top       Be         0.0       23         23 0       30         30.0       40         40 0       62         62 0       68         68 0       12         125 0       14 | 3.0<br>0.0<br>0.0<br>0.0<br>0.0<br>5.0 | Formation DIRT BLUE LS HARD GRAY LS HARD BROWN LS SOFT BROKEN LS SOFT BLUE LS HARD | Bedrock elevation:             | Aquifier elevation:                |

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#### **Indiana Department of Natural Resources**

| Reference Number               | Driving directions to we                                  | U.                |                              |                                    | Date completed              |  |
|--------------------------------|-----------------------------------------------------------|-------------------|------------------------------|------------------------------------|-----------------------------|--|
| 220934                         | ON THE N SIDE OF SR                                       | 158 APROX         | t 458.                       | Sat, Oct 03, 1964                  |                             |  |
| Owner-Contractor               | Name                                                      | Addres            | s                            |                                    | Telephone                   |  |
| Well Owner Building Contractor | O. COOPER MILLER                                          | RR#2,             | BEDFORD IN                   |                                    |                             |  |
| Drilling Contractor            | ERNIE UMPHRESS & S                                        | ONS RR6, B        | OX 13,BEDFORD IN             |                                    |                             |  |
| Equipment Operator             | EUGENE & CHARLE<br>UMPHRESS                               | License           | ::                           |                                    |                             |  |
| Construction Details           |                                                           |                   |                              |                                    |                             |  |
| Well                           | Use: HOME                                                 |                   | method: CABLE TOOL           | Pump type:                         |                             |  |
| <b>G</b>                       | Depth: 150.0                                              | Pump s<br>Materio | etting depth:                | Water quality                      |                             |  |
| Casing<br>Screen               | Length: 43.5<br>Length:                                   |                   | u:<br>ul:                    | Diameter: 6.0<br>Diameter: Sl      |                             |  |
| Well Capacity Test             | Type of test:                                             |                   | Test rate: gpm for hrs.      |                                    | Test rate: 1.0 gpm for hrs. |  |
|                                | Drawdown: ft.                                             |                   | Static water level: 30.0 ft. |                                    |                             |  |
| Grouting Information           | Material:<br>Installation Method:                         |                   |                              | epth: from to                      |                             |  |
|                                | instatuation Method:                                      |                   | 141                          | umber of bags used:                |                             |  |
| Well Abandonment               | -                                                         |                   | epth: from to                |                                    |                             |  |
|                                | Installation Method:                                      |                   | Ni                           | umber of bags used:                |                             |  |
| Administrative                 | County: LAWRENCE                                          |                   |                              | Township: 5N Range                 | : IW  Topo map: BEDFORD     |  |
|                                | Section: NE 1/4 of the NW 1/4 of the NW 1/4 of Section 17 |                   |                              | WEST                               |                             |  |
|                                | Field located by: JCH                                     |                   |                              | on: Mon, Aug 01, 196               | 66                          |  |
|                                | Courthouse location by:                                   |                   |                              | on:                                |                             |  |
|                                | Location accepted w/o verification by:                    |                   |                              | on:                                |                             |  |
|                                | Subdivision name:                                         |                   |                              | Lot number:                        |                             |  |
|                                | Ft W of EL:                                               | Ft                | N of SL: 4900                | Ft E of WL: 1100                   | Ft S of NL:                 |  |
|                                | Ground elevation: 580.0                                   | Del               | oth to bedrock: 20 0         | <b>Bedrock elevation:</b><br>560 0 | Aquifier elevation:         |  |
|                                | UTM Easting: 539067.0                                     |                   |                              | UTM Northing: 4302                 | 687.0                       |  |
| Vell Log                       | Тор В                                                     | ottom             | Formation                    |                                    |                             |  |
|                                | 0.0                                                       | 8.0               | DIRT                         |                                    |                             |  |
|                                | 18.0 41                                                   | 1.0               | BROKEN LS SOF                | т                                  |                             |  |
|                                | 41.0                                                      | 7.0               | GRAY LS HARD                 |                                    |                             |  |
|                                | 67.0                                                      | 4.0               | <b>BLUE LS HARD</b>          |                                    |                             |  |
|                                | 84.0                                                      | 16.0              | BR LS SOFT                   |                                    |                             |  |
|                                | 116.0                                                     | 50.0              | WH LS SOFT                   |                                    |                             |  |
|                                | MC 560:                                                   |                   |                              |                                    |                             |  |

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#### Record of Water Well

#### **Indiana Department of Natural Resources**

Reference Number

Driving directions to well

Date completed

220939

4 MI WEST OF BEDFORD, IN ON BEDFORD & FAYETTEVILLE RD RT 158; E OF

**EUREKA** 

Fri, Feb 12, 1960

Owner-Contractor

Well Owner Building Contractor Drilling Contractor Name SAM G. MITCHELL Address

ERNIE UMPHRESS & SONS RR6 BOX 13, BEDFORD, IN

944 I ST BEDFORD, IN

Telephone

Equipment Operator

or ERNIE UMPHRESS & SONS License:

Construction Details

Well

Use: OTHER
Depth: 150.0

Drilling method: CABLE TOOL

Pump type:
Water quality:

Casing Screen

Length: 23.0 Length:

Material: Material:

Pump setting depth:

water quality: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test:
Drawdown: ft.

Test rate: gpm for hrs.
Static water level: 25.0 ft.

BailTest rate: 1.0 gpm for 1.0 hrs.

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to

Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the NE 1/4 of the NW 1/4 of Section 17

Township: 5N Range: 1W

on: Fri, Jul 01, 1960

Ft E of WL: 1550

Topo map: BEDFORD WEST

Field located by: BARNES

Courthouse location by:

on: on:

Location accepted w/o verification by:

1,

Lot number:

Ground elevation: 560.0
UTM Easting: 539195.0

Subdivision name:

Ft W of EL:

Ft N of SL: 4200 Depth to bedrock:

Bedrock elevation: Aquifier elevation:

Ft S of NL:

UTM Northing: 4302492.0

Well Log

| Тор   | Bottom | Formation     |
|-------|--------|---------------|
| 0.0   | 22 0   | DIRT          |
| 22.0  | 70.0   | BLUF & SOFT   |
| 70.0  | 85.0   | WHITE LS HARD |
| 85.0  | 125 0  | BLUESHARD     |
| 125.0 | 150.0  | WHITE LS HARD |

Comments

MC; SEE MAP; WE DRILL THIN WHIT, IN 5' PIT AND YOU COULD SAY 5' MOREDIRT

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

220944

2 MI W OF BEDFORD ON RR2 SR58 ON FAYETTEVILLE RD & ON S SIDE OF RD.

CLOSE TO JCT OF PURDUE FARM RD & FAYETTEVILLE RD.

Tue, Nov 16, 1965

- ---- - --- -

Owner-Contractor Well Owner

Name MILO V. MARCHETTI Address

Telephone

Building Contractor Drilling Contractor

1408 20TH, BEDFORD

ERNIE UMPHRESS & SONS RR6, BOX 13,BEDFORD IN

**Equipment Operator** 

**EUGENE & CHARLES UMPHRESS** 

License:

Construction Details

Well

Use: HOME Depth: 150.0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen Length: 13.5 Length:

Pump setting depth: Material: Material:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 59.0 ft. BailTest rate: 3.0 gpm for hrs.

**Grouting Information** 

Material: Installation Method: Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the NE 1/4 of the NW 1/4 of Section 17

Township: 5N Range: 1W

on: Mon, Aug 01, 1966

Topo map: BEDFORD

WEST

Field located by: JCH

Courthouse location by: on: Location accepted w/o verification by: on:

Subdivision name:

Ft N of SL: 5000

Lot number:

Ft S of NL:

Ft W of EL:

Depth to bedrock: 5.0

Ft E of WL: 1450 Bedrock elevation:

Aquifier elevation:

Ground elevation: 575 0 UTM Easting: 539177.0

5700

UTM Northing: 4302717 0

Well Log

| Тор   | Bottom | Formation    |  |
|-------|--------|--------------|--|
| 00    | 4.0    | DIRT         |  |
| 4 0   | 33 0   | GRAY LS HARD |  |
| 33 0  | 60 0   | WH LS SOFT   |  |
| 60 0  | 111.0  | GRAY LS SOFT |  |
| 1110  | 117.0  | WH LS SOFT   |  |
| 1170  | 143.0  | BLUE LS HARD |  |
| 143.0 | 150 0  | WH LS SOFT   |  |
|       |        |              |  |

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| Reference Number                                      | Driving directions to well                                                    |        |                              |                                         | Date completed          |  |
|-------------------------------------------------------|-------------------------------------------------------------------------------|--------|------------------------------|-----------------------------------------|-------------------------|--|
| 220846                                                | FROM BEDFORD GOING W TURN R ON PURDUE TOWN RECONERS RES.                      |        | D. 2ND HOUSE ON L. J.        | Wed, Jan 23, 1963                       |                         |  |
| Owner-Contractor<br>Well Owner<br>Building Contractor | <i>Name</i><br>VIRGIL ARNEY                                                   |        | dress<br>2, BEDFORD          |                                         | Telephone               |  |
| Orilling Contractor                                   | LOUIS O. SMITH                                                                | R#     | 1, BEDFORD                   |                                         |                         |  |
| Equipment Operator                                    | LOUIS O. SMITH                                                                | Lic    | rense:                       |                                         |                         |  |
| Construction Details                                  |                                                                               |        |                              |                                         |                         |  |
| Vell                                                  | Use: HOME                                                                     | Dri    | illing method: CABLE TOOL    | Pump type:                              |                         |  |
|                                                       | Depth: 125.0                                                                  | Pu     | mp setting depth:            | Water quality:                          |                         |  |
| Casing<br>Screen                                      | Length: 20 0<br>Length:                                                       |        | terial:<br>terial:           | Diameter: 6.25<br>Diameter: Slot        |                         |  |
| Vell Capacity Test                                    | Type of test:                                                                 |        | Test rate: gpm for hrs.      |                                         | e: 1.0 gpm for 2.0 hrs. |  |
|                                                       | Drawdown: ft.                                                                 |        | Static water level: 43.0 ft. |                                         |                         |  |
| Grouting Information                                  | Material:                                                                     |        |                              | Depth: from to                          |                         |  |
|                                                       | Installation Metho                                                            | d:     | Nı                           | umber of bags used:                     |                         |  |
| Vell Abandonment                                      | Sealing material:                                                             |        |                              | epth: from to                           |                         |  |
|                                                       | Installation Metho                                                            | đ:     | Nı                           | umber of bags used:                     |                         |  |
| dministrative                                         | County: LAWREN                                                                |        |                              | Township: 5N Range:                     |                         |  |
|                                                       | Section: NE 1/4 of the SW 1/4 of the SW 1/4 of Section 8  Field located by: U |        |                              | Topo map: OOLITIC on: Tue, Oct 01, 1963 |                         |  |
|                                                       |                                                                               |        |                              |                                         |                         |  |
|                                                       | Courthouse location by:  Location accepted w/o verification by:               |        |                              | on:<br>on:                              |                         |  |
|                                                       | Subdivision name:                                                             |        | •                            | Lot number:                             |                         |  |
|                                                       | Ft W of EL:                                                                   |        | Ft N of SL: 900              | Ft E of WL: 1100                        | Ft S of NL:             |  |
|                                                       | Ground elevation:                                                             | 615 0  | Depth to bedrock:            | Bedrock elevation:                      | Aquifier elevation:     |  |
|                                                       | UTM Easting, 5390                                                             | 086 0  |                              | UTM Northing: 430312                    | 5 0                     |  |
| Vell Log                                              | Тор                                                                           | Bottom | Formation                    |                                         |                         |  |
|                                                       | 0 0                                                                           | 17.0   | CLAY                         |                                         |                         |  |
|                                                       | 170                                                                           | 60 0   | LIME                         |                                         |                         |  |
|                                                       | 60.0                                                                          | 120 0  | WH LIME                      |                                         |                         |  |
|                                                       | 017.13                                                                        |        |                              |                                         |                         |  |

#### Indiana Department of Natural Resources

| Reference Number |  |
|------------------|--|
| 220051           |  |

Driving directions to well

Date completed

*22*0851

3 MI W OF BEDFORD, IN ON DARK HOLLOW RD; ANNA SWANGO ON PURDUE

FARM RD

Thu, Nov 09, 1961

Owner-Contractor Well Owner

Name **ANNA SWANGO** 

Address RR2 BEDFORD, IN Telephone

**Building Contractor Drilling Contractor Equipment Operator** 

ERNIE UMPHRESS & SONS RR6 BEDFORD, IN

ERNIE UMPHRESS & SONS License:

Construction Details

Well

Use: HOME Depth: 150.0 Drilling method: CABLE TOOL

Pump type: Water quality: Diameter: 6.0

Casing Screen Length: Length:

Material: Material:

Pump setting depth: Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 64.0 ft. BailTest rate: 0.5 gpm for hrs.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

on:

Administrative

County: LAWRENCE

Section: SW 1/4 of the NE 1/4 of the SW 1/4 of Section 8

Topo map: OOLITIC

Township: 5N Range: 1W

Field located by:

on: Tue, Oct 01, 1963

Courthouse location by: Location accepted w/o verification by:

on:

Subdivision name: Ft W of EL:

Lot number: Ft N of SL: 1350 Ft E of WL: 1400

Ft S of NL:

Ground elevation: 640.0

Depth to bedrock:

Bedrock elevation:

Aquifier elevation:

UTM Easting: 539141 0

UTM Northing: 4303265 0

Well Log

| Тор  | Bottom | Pormation     |  |
|------|--------|---------------|--|
| 00   | 10.0   | DIRT          |  |
| 10 0 | 39.0   | BLUE LS HS    |  |
| 39 0 | 42.0   | MUD SOFT      |  |
| 42 0 | 67.0   | GRAY LS HARD  |  |
| 67 0 | 80.0   | WHITE LS HARD |  |
| 80 0 | 1150   | BROWN LS SOFT |  |
| 1150 | 150 0  | WHITE LS SOFT |  |
|      |        |               |  |

#### **Indiana Department of Natural Resources**

Reference Number 220856

Driving directions to well

Date completed

ABOUT .375 MI N OF BEDFORD & FAYETVILLE RD ON SRI58.

Tue, Feb 23, 1960

Owner-Contractor Well Owner

Name SAM O'MITCHEL Address

Telephone

**Building Contractor Drilling Contractor Equipment Operator** 

944 N I ST, BEDFORD IN ERNIE UMPHRESS & SONS RR6, BOX 13, BEDFORD IN

ERNIE UMPHRESS & SONS License:

Construction Details

Well

Use: HOME Depth: 140.0 Drilling method: CABLE TOOL Pump setting depth:

Pump type: Water quality:

Casing Screen

Length: 27.0 Length:

Material: Material:

Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft. Test rate: gpm for hrs. Static water level: 45.0 ft. BailTest rate: 1.0 gpm for 1.0 hrs.

Grouting Information

Material:

Installation Method:

Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Township: 5N Range: 1W

on: Tue, Nov 01, 1960

Section: NW 1/4 of the SE 1/4 of the SW 1/4 of Section 8

Topo map: OOLITIC

Field located by: S&H Courthouse location by:

Location accepted w/o verification by:

on:

Subdivision name:

on: Lot number:

Ft W of EL:

Ft N of SL: 800

Ft E of WL: 1400

Ft S of NL:

Ground elevation: 615.0

Depth to bedrock:

Bedrock elevation:

Aquifier elevation:

UTM Easting: 539128.0

UTM Northing: 4303088.0

Well Log

| Тор   | Bottom | Formation           |
|-------|--------|---------------------|
| 0.0   | 25.0   | DIRT                |
| 25 0  | 50.0   | WH LS HARD          |
| 50 0  | 103.0  | BR LS SOFT          |
| 103 0 | 125.0  | WH LS SOFT          |
| 125.0 | 140.0  | <b>BLUE LS HARD</b> |

Comments

MC 590; OFFICE CHAM; FE 0.6 PPM, HARDNESS 335 PPM, PH 7.2, CHLORIDF 6 PPMPage 9784

| Reference Number               | Driving directions                                                                      |                        | denhama.un basa tiggen er . All te te≇elve h     | as produce exercise and a state of  | Date completed             |  |
|--------------------------------|-----------------------------------------------------------------------------------------|------------------------|--------------------------------------------------|-------------------------------------|----------------------------|--|
| 220861                         | FROM BEDFORD GOING W. ON 158 TO PURDUE FARM RD, GO TO 5TH HOUSE ON R. Thu, Aug 01, 1963 |                        |                                                  |                                     |                            |  |
| Owner-Contractor<br>Well Owner | <i>Name</i><br>JOHN BUNDY                                                               |                        | Address<br>RRT. #2, BEDFOR, IN.                  |                                     | Telephone                  |  |
| Building Contractor            |                                                                                         |                        | _                                                |                                     |                            |  |
| Drilling Contractor            | LOUIE O. SMITH                                                                          |                        | RRT. #1, BEDFORD, IN.                            |                                     |                            |  |
| Equipment Operator             | LOUIE O. SMITH                                                                          |                        | License:                                         |                                     |                            |  |
| Construction Details           |                                                                                         |                        |                                                  |                                     |                            |  |
| Vell                           | Use: HOME                                                                               |                        | Drilling method: CABLE TOO                       |                                     |                            |  |
| i                              | Depth:                                                                                  |                        | Pump setting depth: Material:                    | Water qualit                        |                            |  |
| Casing<br>Gereen               | Length: 30.0<br>Length:                                                                 |                        | material:<br>Material:                           | Diameter: 6.<br>Diameter: Sl        | -                          |  |
| Well Capacity Test             | Type of test:<br>Drawdown: ft.                                                          |                        | Test rate: gpm for hrs. Static water level: 50 ( |                                     | rate: 5.0 gpm for 2.0 hrs. |  |
| Grouting Information           | Material:<br>Installation Metho                                                         | ed:                    |                                                  | Depth: from to Number of bags used: |                            |  |
| Vell Abandonment               | Sealing material:<br>Installation Method:                                               |                        |                                                  | Depth: from to Number of bags used: |                            |  |
| dministrative                  | County: LAWREN                                                                          | ICE                    |                                                  | Township: 5N Range                  | :: 1W                      |  |
|                                | Section: NE 1/4 of                                                                      | the NW 1/4             | of the SW 1/4 of Section 8                       |                                     | Topo map: OOLITIC          |  |
|                                | Field located by: L                                                                     | I                      |                                                  | on: Tue, Oct 01, 1963               | 3                          |  |
|                                | Courthouse locațio                                                                      | on by:                 |                                                  | on:                                 |                            |  |
|                                | Location accepted                                                                       | w/o verific <b>a</b> t | ion by:                                          | on:                                 |                            |  |
|                                | Subdivision name:                                                                       |                        |                                                  | Lot number:                         |                            |  |
|                                | Ft W of EL:                                                                             |                        | Ft N of SL: 2600                                 | Ft E of WL: 1200                    | Ft S of NL:                |  |
|                                | Ground elevation:                                                                       | 655.0                  | Depth to bedrock:                                | Bedrock elevation:                  | Aquifier elevation:        |  |
|                                | UTM Easting: 539                                                                        | 093 0                  |                                                  | UTM Northing: 4303                  | 8631 0                     |  |
| ell Log                        | Тор                                                                                     | Bottom                 | Formation                                        |                                     |                            |  |
|                                | 0.0                                                                                     | 20 0                   | CLAY                                             |                                     |                            |  |
|                                | 20 0                                                                                    | 26.0                   | RED CLAY                                         |                                     |                            |  |
|                                | 26.0                                                                                    | 35.0                   | L.S                                              |                                     |                            |  |
|                                | 35.0                                                                                    | 37.0                   | SOFI LIME                                        |                                     |                            |  |
|                                | 37.0                                                                                    | 40.0                   | WHITE LIM                                        |                                     |                            |  |
|                                | 40.0                                                                                    | 41.0                   | BLANK                                            |                                     |                            |  |
|                                | 41.0                                                                                    | 45 0                   | SHFLL                                            |                                     |                            |  |
|                                | 45.0                                                                                    | 66.0                   | BLUF UMF                                         |                                     |                            |  |
|                                | 66.0                                                                                    | 70.0                   | WHITE I IMI                                      |                                     |                            |  |
|                                | 70 0                                                                                    | 105.0                  | HARD LIME                                        |                                     |                            |  |
|                                | 105.0                                                                                   | 145.0                  | WHITE BUTT                                       | ME                                  |                            |  |
|                                | 145 0                                                                                   | 185 0                  | HARD (IME                                        |                                     |                            |  |
| onments                        | MC 600:                                                                                 |                        |                                                  |                                     |                            |  |

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| Reference Number                        | Driving directions to well                           | - complete the section of the district of the control of the contr | kiden jamin mig japulaak sepak ya, derami | Date completed               |  |
|-----------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|--|
| 220866                                  | APPROX. 200' E. OF THE PU                            | E PURDUE FARM RD. Wed, Aug 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                              |  |
| Owner-Contractor Well Owner             | <i>Name</i><br>HARRY & PAULINE KERN                  | Address<br>RRT. #2, BEDFOR, IN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           | Telephone                    |  |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                                | RRT. 6, BEDFORD, IN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                              |  |
| Equipment Operator                      | EUGENE & CHARLES<br>UMPHRESS                         | License:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                              |  |
| Construction Details                    |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                              |  |
| Well                                    | Use: HOME                                            | Drilling method: CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pump type:                                |                              |  |
| Casina                                  | Depth: 148.0                                         | Pump setting depth: Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Water quality                             |                              |  |
| Casing<br>Screen                        | Length: 34.5<br>Length:                              | Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Diameter: 6.0<br>Diameter: Sl             |                              |  |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft.                       | Test rate: gpm for hrs.  Static water level: 95.0 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BailTest r                                | ate: 5.0 gpm for hrs.        |  |
| Grouting Information                    | Material:<br>Installation Method:                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | pth: from to<br>imber of bags used:       |                              |  |
| Well Abandonment                        | Sealing material:<br>Installation Method:            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Depth: from to Number of bags used:       |                              |  |
| Administrative                          | County: LAWRENCE                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township: 5N Range                        |                              |  |
|                                         | Section: SW 1/4 of the NE 1/4                        | of the SW 1/4 of Section 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           | Topo map: OOLITIC            |  |
|                                         | Field located by: JCH                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on: Mon, Aug 01, 196                      | 6                            |  |
|                                         | Courthouse location by:                              | *i <b></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | on:                                       |                              |  |
|                                         | Location accepted w/o verifical<br>Subdivision name: | uon vy:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | on:<br>Lot number:                        |                              |  |
|                                         | Ft W of EL:                                          | Ft N of SL: 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fi E of WL: 1480                          | Ft S of NL:                  |  |
|                                         | Ground elevation: 645.0                              | Depth to bedrock:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bedrock elevation:                        | •                            |  |
|                                         | UTM Easting: 539141 0                                | Depin to bearoux.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UTM Northing: 4303                        | Aquifier elevation:<br>356.0 |  |
| Well Log                                | Top Bottom                                           | Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                              |  |
|                                         | 0.0 27 0                                             | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                              |  |
|                                         | 27.0 33.0                                            | GRAY LS-SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                              |  |
|                                         | 33.0 45.0                                            | BLUE LS-SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                              |  |
|                                         | 45.0 59 0                                            | GRAY LS-SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                              |  |
|                                         | 59.0 77 ()                                           | BLUE LS-HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                              |  |
|                                         | 77.0 95.0                                            | GRAY LS-SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                              |  |
|                                         | 95.0 127.0                                           | BRN LS-SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |                              |  |
|                                         | 127.0                                                | GRAY LS-SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                              |  |
|                                         | 139.0                                                | WHITE LS SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                              |  |
|                                         |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                              |  |

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#### Indiana Department of Natural Resources

| Reference Number                        | Driving directions to we             | <i>'</i>                           |                          | Date completed                       |
|-----------------------------------------|--------------------------------------|------------------------------------|--------------------------|--------------------------------------|
| 220871                                  | E OPPOSITE PARDUE                    |                                    | Wed, Oct 12, 1960        |                                      |
| Owner-Contractor Well Owner             | <i>Name</i><br>WM. FITZGERALD        | <i>Address</i><br>BEDFORD RR 2, IN |                          | Telephone                            |
| Building Contractor Drilling Contractor | ELMER ALFORD                         | MITCHELL IN                        |                          |                                      |
| Equipment Operator                      | ELMER ALFORD                         | License:                           |                          |                                      |
| Construction Details                    |                                      |                                    |                          |                                      |
| Well                                    | Use: HOME                            | Drilling method: CABLE To          | OOL Pump type:           |                                      |
|                                         | Depth: 160.0                         | Pump setting depth:                | Water quality:           |                                      |
| Casing<br>Screen                        | Length: 28.0<br>Length:              | Material:<br>Material:             |                          |                                      |
| Well Capacity Test                      | Type of test:                        | Test rate: gpm for h               | s. BailTest rate         | gpm for hrs.                         |
|                                         | Drawdown: ft.                        | Static water level: 90             | ).O ft.                  |                                      |
| Grouting Information                    | Material:                            |                                    | Depth: from to           |                                      |
|                                         | Installation Method:                 |                                    | Number of bags used:     |                                      |
| Well Abandonment                        | Sealing material:                    |                                    | Depth: from to           |                                      |
|                                         | Installation Method:                 |                                    | Number of bags used:     |                                      |
| Administrative                          | County: LAWRENCE                     |                                    | Township: 5N Range: 1    |                                      |
|                                         |                                      | W 1/4 of the NW 1/4 of Section 8   |                          | Topo map: OOLITI                     |
|                                         | Field located by: JCH                |                                    | on: Mon, Aug 01, 1966    |                                      |
|                                         | Courthouse location by:              |                                    | on:                      |                                      |
|                                         | Location accepted w/o ve             | rification by:                     | on:<br>Lot number:       |                                      |
|                                         | Subdivision name:                    | Ft N of SI.                        | Ft E of WL: 1200         | Ft S of NI - 400                     |
|                                         | Ft W of EL:  Ground elevation: 653 0 | Ft N of SL:                        | Bedrock elevation: 625.0 | Ft S of NL: 400  Agusfier elevation: |
|                                         | UTM Easting: 539094 0                | Depth to bedrock: 28.0             | UTM Northing: 430430     | . ,                                  |
| Well Log                                | Тор Во                               | oltoin Formation                   |                          |                                      |
|                                         | 0 0 28                               | 0 RED CLAY                         | & BOULDERS               |                                      |
|                                         |                                      |                                    |                          |                                      |

WH LIME MD



| Reference Number                  | Driving directions to we                                 | ru                            |                              | Da                                          | te completed      |  |
|-----------------------------------|----------------------------------------------------------|-------------------------------|------------------------------|---------------------------------------------|-------------------|--|
| 220876                            | APP 1 5 MI N OF EUR                                      | CA IN                         |                              | Th                                          | a, Jul 23, 1964   |  |
| Owner-Contractor                  | Name                                                     | Addre                         |                              | Tel                                         | ephone            |  |
| Well Owner<br>Building Contractor | MICHAEL K SKEEN                                          | KK#2                          | , BEDFORD IN                 |                                             |                   |  |
| Drilling Contractor               | ERNIE UMPHRESS & S                                       | SONS BEDF                     | FORD IN, RR6                 |                                             |                   |  |
| Equipment Operator                | EUGENE & CHARLES<br>UMPHRESS                             | Licens                        | se:                          |                                             |                   |  |
| Construction Details              |                                                          |                               |                              |                                             |                   |  |
| Weli                              | Use: HOME                                                | Drillin                       | ng method: CABLE TOOL        | Pump type:                                  |                   |  |
|                                   | Depth: 104.0                                             | <del>-</del>                  | setting depth:               | Water quality:                              |                   |  |
| Casing<br>Screen                  | Length: 30 0<br>Length:                                  | Mater<br>Mater                |                              | Diameter: 6.0<br>Diameter: Slot size.       |                   |  |
| Well Capacity Test                | Type of test:                                            | test: Test rate: gpm for hrs. |                              | BailTest rate: 9.                           | 0 gpm for hrs.    |  |
|                                   | Drawdown: ft.                                            |                               | Static water level: 40 0 ft. |                                             |                   |  |
| Grouting Information              | Material:                                                |                               | Dep                          | th: from to                                 |                   |  |
|                                   | Installation Method:                                     |                               | Nun                          | nber of bags used:                          |                   |  |
| Vell Abandonment                  | _                                                        |                               |                              | th: from to                                 |                   |  |
|                                   | Installation Method:                                     |                               | Nun                          | nber of bags used.                          |                   |  |
| Administrative                    | County: LAWRENCE                                         | 737 174 - C.L.                | NIC 144 of Cooper 7          | Township: 5N Range: 1W                      | T 001 ITI         |  |
|                                   | Section: SW 1/4 of the NW 1/4 of the NE 1/4 of Section 7 |                               |                              | am. Man. Aug 01, 1066                       | Topo map: OOLITIO |  |
|                                   | Field located by: JCH                                    |                               |                              | on: Mon, Aug 01, 1966                       |                   |  |
|                                   | Courthouse location by:                                  |                               |                              | on:                                         |                   |  |
|                                   | Location accepted w/o ve                                 | erification by:               | •                            | on:                                         |                   |  |
|                                   | Subdivision name:                                        |                               | n                            | Lot number                                  | en en en en en    |  |
|                                   | Ft W of EL: 2500                                         |                               | Ft N of SL:                  | Ft E of WL:                                 | Ft S of NL: 100   |  |
|                                   | Ground elevation: 650 0                                  |                               | Depth to bedrock:            | Bedrock elevation: 625 0 Aquifier elevation |                   |  |
|                                   | UTM Easting: 537941 0                                    |                               |                              | UTM Northing 4304126 0                      |                   |  |
| Vell Log                          | _ <del>'</del>                                           | ottom                         | Formation                    |                                             |                   |  |
|                                   | 0 0                                                      | 7 0                           | DIRT                         |                                             |                   |  |
|                                   | 27 0 6                                                   | 1 0                           | BLUE LS HARD                 |                                             |                   |  |
|                                   | 61 0 8                                                   | 7 0                           | GRAY LS SOFT                 |                                             |                   |  |
|                                   | 87 0 9                                                   | 3 0                           | WH LS SOFT                   |                                             |                   |  |
|                                   | 93.0                                                     | 04 0                          | BLUE LS HARD                 |                                             |                   |  |
| Comments                          | MC 625                                                   |                               |                              |                                             |                   |  |

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| Reference Number                        | Driving directions to                          | vell          | p to elberativals varies as alless, ( p.E. 19 - Endines as par président | March and the contract of the | Date completed         |  |
|-----------------------------------------|------------------------------------------------|---------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|
| 220881                                  | FROM BEDFORD GO<br>GO 1ST RD TO L., 2N         |               | V 158 APPROX. 5 MI., TURN<br>ON L.                                       | N ON PENDUE FARM RD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sat, Sep 12, 1964      |  |
| Owner-Contractor Well Owner             | Name<br>LESTER COMPTON                         |               | dress<br>RT. #2, BEDFORD, IN.                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Telephone              |  |
| Building Contractor Drilling Contractor | LOUIE O. SMITH                                 | RR            | T. #1, BEDFORD, IN,                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |
| Equipment Operator                      | LOUIE O SMITH                                  |               | cense:                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |
| Construction Details                    |                                                |               |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |
| Well                                    | Use: HOME                                      | Dr            | illing method: CABLE TOOL                                                | . Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |  |
|                                         | Depth: 100.0                                   |               | mp setting depth:                                                        | Water quality:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |
| Casing<br>Screen                        | Length: 30.0<br>Length:                        |               | uerial:<br>uerial:                                                       | Diameter: 6.25<br>Diameter: Slot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | size:                  |  |
| Well Capacity Test                      | Type of test:                                  |               | Test rate: gpm for hrs.                                                  | BailTest rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | e: 3 0 gpm for 3 0 hrs |  |
|                                         | Drawdown: ft.                                  |               | Static water level: 45 0 f                                               | t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |  |
| Grouting Information                    | Material:                                      |               |                                                                          | Depth: from to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |
|                                         | Installation Method:                           |               | ^                                                                        | Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |  |
| Well Abandonment                        | Sealing material:<br>Installation Method:      |               |                                                                          | Depth: from to Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |  |
|                                         | instattation method:                           |               | ľ                                                                        | rumber of bags usea:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |  |
| Administrative                          | County: LAWRENCE                               | TE 1/4 af the | SE MA of Carrier 7                                                       | Township: 5N Range: 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |  |
|                                         | Section: SE 1/4 of the S Field located by: JCH | 5E 174 OF THE | e SE 1/4 of Section /                                                    | on: Mon, Aug 01, 1966                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Topo map: OOLITIC      |  |
|                                         | Courthouse location by                         | ):            |                                                                          | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |  |
|                                         | Location accepted w/o                          | verification  | by:                                                                      | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |  |
|                                         | Subdivision name:                              |               |                                                                          | Lot number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |  |
|                                         | Ft W of EL:                                    |               | Ft N of SL: 1250                                                         | Ft E of WL: 2700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ft S of NL:            |  |
|                                         | Ground elevation: 640.                         | 0             | Depth to bedrock:                                                        | Bedrock elevation: 615                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0 Aquifier elevation:  |  |
|                                         | UTM Easting: 537848                            | 0             |                                                                          | UTM Northing: 430321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8 0                    |  |
| Well Log                                | Тор                                            | Bottom        | Formation                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |
|                                         | 0 0                                            | 25 0          | CLAY                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                      |  |
|                                         | 25 0                                           | 33 0          | LIME                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |
|                                         | 33 0                                           | 45 0          | SOFT LIME                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |
|                                         | 45 0                                           | 47 0          | HARD LIME                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |
|                                         | 47.0                                           | 53 0          | SOFT LIME                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |
|                                         | 53.0                                           | 100 0         | MED LIIMF                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |
| Comments                                | MC 615                                         |               |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |  |

182

| Reference Number                                | Driving directions to well                  | da pelo dere 4 4, p           | Date completed                          | •           |
|-------------------------------------------------|---------------------------------------------|-------------------------------|-----------------------------------------|-------------|
| 220886                                          | 279 2161 BOB WAKEFIEL                       | D INDIAN CREEK CAMP           | Sat May 26 1951                         |             |
| Owner Contractor Well Owner Building Contractor | Name<br>BAPTIST CONVENTION                  | Address<br>WELL #1 AVOC, IN   | Telephone                               |             |
| Drilling Contractor                             | HOMER ALFORD                                | RR2 MITCHELL                  |                                         |             |
| Equipment Operator                              |                                             | License                       |                                         |             |
| Construction Details                            |                                             |                               |                                         |             |
| Well                                            | Use HOME                                    | Drilling method CABLE TOOL    | Pump type                               |             |
|                                                 | Depth 125 0                                 | Pump setting depth            | Water quality                           |             |
| Casing                                          | Length 370                                  | Material                      | Diameter 5 62                           |             |
| Screen                                          | Length                                      | Material                      | Diameter Slot size                      |             |
| Well Capacity Test                              | Type of test                                | Test rate gpm for hrs         | BailTest rate 18 0 gpm for 0 5 hr       | rs          |
|                                                 | Drawdown ft                                 | Static water level 52 0 ft    |                                         |             |
| Grouting Information                            | Material                                    | D                             | epth from to                            |             |
|                                                 | Installation Method                         | Λ                             | umber of bags used                      |             |
| Well Abandonment                                | Sealing material<br>Installation Method     |                               | epth from to umber of bags used         |             |
| Administrative                                  | County LAWRENCE  Section NW 1/4 of the NW 1 | /A of the SE L/L of Section 6 | Township 5N Range 1W                    |             |
|                                                 | Field located by JRD                        | 74 of the SE 174 of Section 6 | Topo map ○○  on Mon Aug 09 1971         | LITIC       |
|                                                 | Courthouse location by                      |                               | on                                      |             |
|                                                 | Location accepted w/o verific               | ation by                      | on                                      |             |
|                                                 | Subdivision name                            |                               | Lot number                              |             |
|                                                 | Ft W of EL 2500                             | Ft N of SL 2400               | Ft E of WL Ft S of NL                   |             |
|                                                 | Ground elevation 6150                       | Depth to bedrock 37.0         | Bedrock elevation 5780 Aquifier elevati | on          |
|                                                 | UTM Easting 537937 0                        |                               | UTM Northing 4305181 0                  |             |
| Well Log                                        | Top Botton                                  | n Formation                   |                                         |             |
| neu i vg                                        | 00 00                                       | CLAY BOULDER                  | S BROKFN LS                             | <del></del> |
|                                                 | 0 0 37 0                                    | OVERBURDENC                   |                                         |             |
|                                                 | 37 0 125 0                                  | 15                            |                                         |             |
| Comments                                        | MC578 50 S OF WHITE TRA                     | AILER TO AL DRAWDOWN DUE      | HING FEST                               |             |

Comments

MC.

| Reference Number                           | Driving directions to                | well         |                                                    |                                | Date completed            |
|--------------------------------------------|--------------------------------------|--------------|----------------------------------------------------|--------------------------------|---------------------------|
| 220891                                     | 5 MILE W AVACO, HATCHERY ON AVOCA RD |              |                                                    |                                | Fn, May 20, 1960          |
| Owner-Contractor Well Owner                | <i>Name</i><br>BARB KIRKMAN          |              | dress<br>'ACA, IN                                  |                                | Telephone                 |
| Building Contractor<br>Drilling Contractor | ELMER ALFORD                         | RR           | T. #, MITCHELL, IN                                 |                                |                           |
| Equipment Operator                         |                                      | Lic          | ense:                                              |                                |                           |
| Construction Details                       |                                      |              |                                                    |                                |                           |
| Well                                       | Use: HOME                            | Dri          | lling method: CABLE TOO                            | OL Pump type:                  |                           |
|                                            | Depth: 98 0                          |              | mp setting depth                                   | Water quality                  |                           |
| Casing<br>Screen                           | Length: 43 0<br>Length:              |              | terial:<br>terial:                                 | Diameter: 6 2<br>Diameter: Slo | -                         |
| Well Capacity Test                         | Type of test:<br>Drawdown: ft        |              | Test rate: gpm for hrs<br>Static water level: 18 ( |                                | ate: 10 0 gpm for 0 5 hrs |
| Grouting Information                       | Material:                            |              |                                                    | Depth: from to                 |                           |
|                                            | Installation Method:                 |              |                                                    | Number of bags used:           |                           |
| Well Abandonment                           | Sealing material:                    |              |                                                    | Depth: from to                 |                           |
|                                            | Installation Method:                 |              |                                                    | Number of bags used:           |                           |
| Administrative                             | County: LAWRENCE                     |              |                                                    | Township: 5N Range.            |                           |
|                                            | Section: SW 1/4 of the               |              | e NE 1/4 of Section 6                              |                                | Topo map: OOLITIC         |
|                                            | Field located by: BAF                | RNES         |                                                    | on: Fri, Jul 01, 1960          |                           |
|                                            | Courthouse location l                | by:          |                                                    | on:                            |                           |
|                                            | Location accepted w/o                | verification | by:                                                | on:                            |                           |
|                                            | Subdivision name:                    |              |                                                    | Lot number:                    |                           |
|                                            | Ft W of EL: 950                      |              | Ft N of SL:                                        | Ft E of WL:                    | Ft S of NL: 700           |
|                                            | Ground elevation: 64                 | 0 0          | Depth to bedrock:                                  | Bedrock elevation:             | Aquifier elevation        |
|                                            | UTM Easting: 538450                  | 0            |                                                    | UTM Northing: 4305             | 893 0                     |
| Vell Log                                   | Тор                                  | Bottom       | Formation                                          |                                |                           |
|                                            | 0 0                                  | 43 0         | RED CLAY                                           |                                |                           |
|                                            | 43 0                                 | 98.0         | LS GRAY                                            |                                |                           |

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Comments M( 630

#### Record of Water Well

| Reference Number            | Driving directions to well                |                             | Date completed                              |
|-----------------------------|-------------------------------------------|-----------------------------|---------------------------------------------|
| 220896                      | AVACA & EUREKA RD, 2 V                    | WEST, OOLITIC,              | Fn. Jun 08, 1962                            |
| Owner-Contractor Well Owner | Name<br>RAYMOND JONES                     | Address<br>BEDFORD, IN      | Telephone                                   |
| Building Contractor         |                                           | ,                           |                                             |
| Drilling Contractor         | ERNIE UMPHRESS & SONS<br>EUGENE & CHARLES | RRT. 6, BOX 13, BEDFORD, IN |                                             |
| Equipment Operator          | UMPHRESS                                  | License.                    |                                             |
| Construction Details        |                                           |                             |                                             |
| Well                        | Use: HOME                                 | Drilling method: CABLE TOOL | Pump type:                                  |
|                             | Depth: 100 0                              | Pump setting depth:         | Water quality:                              |
| Casing<br>Screen            | Length: 67 0<br>Length:                   | Material:<br>Material:      | Diameter: 6.0<br>Diameter: Slot size:       |
| Well Capacity Test          | Type of test:                             | Test rate: gpm for hrs.     | BailTest rate: 2 0 gpm for hrs              |
| , .                         | Drawdown: ft                              | Static water level: 75 0 ft | 51                                          |
| Grouting Information        | Material:                                 | De                          | pth: from to                                |
|                             | Installation Method:                      | Nı                          | umber of bags used:                         |
| Vell Abandonment            | Sealing material:                         | De                          | pth: from to                                |
|                             | Installation Method:                      | No                          | mber of bags used                           |
| Administrative              | County: LAWRENCE                          |                             | Township: 5N Range: 1W                      |
|                             | Section: SE 1/4 of the SE 1/4 of          | f the NW 1/4 of Section 6   | Topo map: OOLITIC                           |
|                             | Field located by                          |                             | on:                                         |
|                             | Courthouse location by:                   |                             | on:                                         |
|                             | Location accepted w/o verifica            | tion by:                    | on:                                         |
|                             | Subdivision name:                         |                             | Lot number:                                 |
|                             | Ft W of EL:                               | Ft N of SL:                 | Ft E of WL: 2250 Ft S of NL 2600            |
|                             | Ground elevation 645 0                    | Depth to bedrock:           | Bedrock elevation: Aquifier elevation 630 ( |
|                             | UTM Easting 537724 0                      |                             | UTM Northing 4305261 0                      |
| Vell Log                    | Top Bottom                                | Formation                   |                                             |
| -                           | 0 0 16 0                                  | DIRΓ                        |                                             |
|                             | 16 0 67 0                                 | LS BOULDERS &               | MUD HOLES                                   |
|                             | 67.0 74.0                                 | BLUE LS-HARD                |                                             |
|                             | 74.0 100.0                                | GRAY LS-SOFT                |                                             |

| Reference Number                        | Driving directions to                      | vell              | ar stor destruir service a ribbitro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | waran swambéha e e e e en escéle. A | Date completed                        |
|-----------------------------------------|--------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|
| 220901                                  | FROM PATTON HILL                           | .(W OF OOL        | ITIC) GOING W APPROX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | C 25 MI SMALL FARM OI               | NR Sat, Jul 25, 1964                  |
| Owner-Contractor<br>Well Owner          | <i>Name</i><br>OPAL WEBB                   | <i>Add</i><br>821 | ress<br>SMITH DR, OOLITIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     | Telephone                             |
| Building Contractor Drilling Contractor | LOUIS O. SMITH                             | R#1.              | BEDFORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                       |
| Equipment Operator                      | LOUIS O SMITH                              | Lice              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                       |
| Construction Details                    |                                            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                       |
| Well                                    | Use: HOME                                  | Drill             | ing method: CABLE TOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | OL Pump type.                       | :                                     |
| _                                       | Depth: 163.0                               |                   | p setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Water qua                           | ·                                     |
| Casing<br>Screen                        | Length: 26.0<br>Length:                    |                   | erial:<br>erial:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Diameter:<br>Diameter:              |                                       |
| Well Capacity Test                      | Type of test: Drawdown: ft.                |                   | Test rate: gpm for hrs<br>Static water level: 90 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     | trate: 3.0 gpm for 2.0 hrs            |
| Grouting Information                    | Material:<br>Installation Method:          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to Number of bags used: |                                       |
| Well Abandonment                        | Sealing material:<br>Installation Method:  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to Number of bags used: |                                       |
| Administrative                          | County: LAWRENCE<br>Section: SW 1/4 of the | NE 1/4 of the     | NW 1/4 of Section 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Township: 5N Ran                    | ge: IW<br>Topo map: OOLITIC           |
|                                         | Field located by: JCH                      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on: Mon, Aug 01, 1                  | ,                                     |
|                                         | Courthouse location by                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                                 |                                       |
|                                         | Location accepted w/o                      | verification b    | y:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | on:                                 |                                       |
|                                         | Subdivision name:                          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number                          |                                       |
|                                         | Ft W of EL:                                |                   | Ft N of SL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ft E of WL : 1900                   | Ft S of NL: 1200                      |
|                                         | Ground elevation:                          | 1                 | Depth to bedrock:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bedrock elevation:                  | 640 0 Aquifier elevation:             |
|                                         | UTM Easting: 539303                        | D                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing 43                     | 05685 ()                              |
| Well Log                                | Тор                                        | Bottom            | Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                       |
|                                         | 0.0                                        | 22 0              | CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                                       |
|                                         | 22 0                                       | 28 0              | HARD LS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                       |
|                                         | 28 0                                       | 40 0              | MD LIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                       |
|                                         | 40 0                                       | 45.0              | HARD LIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                       |
|                                         | 45.0                                       | 63.0              | SOFT LIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                       |
|                                         | 63.0                                       | 95 0              | MUD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                       |
|                                         | 95 ()                                      | 105 0             | BR LIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                       |
|                                         | 105 0                                      | 1150              | GRAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                                       |
|                                         | 1150                                       | 150-0             | WH LS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                                       |
|                                         | 1500                                       | 163.0             | HARD LIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                       |
| Comments                                | MC 640                                     | 4-240             | Justin to the region of the second of the se | er model. Laur                      | · · · · · · · · · · · · · · · · · · · |



| Reference Number                        | Driving directions to well               | , ученици — фаларуарынарын на раз у с. М. Баул Комаад | De                                  | ate completed       |
|-----------------------------------------|------------------------------------------|-------------------------------------------------------|-------------------------------------|---------------------|
| 220906                                  | PATTON HILL APP I MI                     | MI W OF OOLITIC IN Tue, Jul 21, 19                    |                                     |                     |
| Owner-Contractor                        | Name                                     | Address                                               | Τε                                  | lephone             |
| Well Owner                              | ELI TAYLOR JR & NELLI<br>TAYLOR          | E BEDFORD IN, RR2                                     |                                     |                     |
| Building Contractor                     |                                          | IC DEDECTED IN DD4                                    |                                     |                     |
| Drilling Contractor  Equipment Operator | ERNIE UMPHRESS & SOI<br>EUGENE & CHARLES | License:                                              |                                     |                     |
| Ецирпен Орегион                         | UMPHRESS                                 | Election.                                             |                                     |                     |
| Construction Details                    |                                          |                                                       |                                     |                     |
| Well                                    | Use: HOME                                | Drilling method: CABLE TO                             | OL Pump type:                       |                     |
|                                         | Depth: 167.0                             | Pump setting depth:                                   | Water quality:                      |                     |
| Casing<br>Screen                        | Length: 58 0<br>Length:                  | Material:<br>Material:                                | Diameter: 6 0<br>Diameter: Slot siz | e:                  |
| Well Capacity Test                      | Type of test:                            | Test rate: gpm for hrs                                | BailTest rate: 1                    | .0 gpm for hrs.     |
| , ,                                     | Drawdown: ft                             | Static water level: 87                                |                                     |                     |
| Grouting Information                    | Material:<br>Installation Method:        |                                                       | Depth: from to Number of bags used  |                     |
| Well Abandonment                        | Sealing material:                        |                                                       | Depth: from to                      |                     |
|                                         | Installation Method:                     |                                                       | Number of bags used:                |                     |
| Administrative                          | County: LAWRENCE                         | /4 of the NE 1/4 of Section 5                         | Township: 5N Range: 1W              | Tono man, OOL ITIC  |
|                                         | Field located by: JCH                    | 74 of the INE 174 of Section 3                        | on: Mon, Aug 01, 1966               | Topo map: OOLITIC   |
|                                         | Courthouse location by:                  |                                                       | on:                                 |                     |
|                                         | Location accepted w/o verif              | ication by:                                           | on:                                 |                     |
|                                         | Subdivision name:                        | ·                                                     | Lot number:                         |                     |
|                                         | Ft W of EL: 1300                         | Ft N of SL:                                           | Ft E of WL:                         | Ft S of NL: 1700    |
|                                         | Ground elevation: 690 0                  | Depth to bedrock:                                     | Bedrock elevation: 650 0            | Aquifier elevation: |
|                                         | UTM Easting: 539919 0                    |                                                       | UTM Northing: 4305543 0             |                     |
| Well Log                                | Тор Вош                                  | om Formation                                          |                                     |                     |
| V                                       | 0 0 41.0                                 | DIRT                                                  |                                     |                     |
|                                         | 41 0 54 0                                | BLUELSHA                                              | RD                                  |                     |
|                                         | 54 0 56 0                                | MUD HOLE                                              |                                     |                     |
|                                         | 56 0 71 0                                | BLUELSHA                                              | RD                                  |                     |
|                                         | 71 0 121                                 | 0 GRAY LS SO                                          | <del>F</del> T                      |                     |
|                                         | 121 0 154                                |                                                       |                                     |                     |
|                                         | 154 0 167                                |                                                       | ٧()                                 |                     |
| Comments                                | MC 650.                                  |                                                       |                                     |                     |

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| Reference Number                  | Driving direct                   | tions to well      | Prestanzamengengerateraten em geouedar na e alba lau | *************************************** | Dat                              | e completed         |
|-----------------------------------|----------------------------------|--------------------|------------------------------------------------------|-----------------------------------------|----------------------------------|---------------------|
| 220911                            | PATTON HILL, R PAST CAMP, KEEP R |                    |                                                      |                                         | Sat                              | Apr 01, 1961        |
| Owner-Contractor                  | Name                             | ,                  | Address                                              |                                         | Tele                             | ephone              |
| Well Owner<br>Building Contractor | WM. STRUNI                       | Κ.                 | R#2, BEDFORD                                         |                                         |                                  |                     |
| Drilling Contractor               | LOUIE O. SM                      |                    | R#1, BEDFORD IN                                      |                                         |                                  |                     |
| Equipment Operator                | LOUIE O. SM                      | пн                 | License.                                             |                                         |                                  |                     |
| Construction Details              |                                  |                    |                                                      |                                         |                                  |                     |
| Vell                              | Use: HOME                        |                    | Drilling method:                                     | Pum                                     | p type:                          |                     |
| _                                 | Depth: 190.0                     |                    | Pump setting depth:                                  |                                         | r quality:                       |                     |
| Casing<br>Gereen                  | Length: 26.0<br>Length:          |                    | Material:<br>Material:                               |                                         | ieter: 6.25<br>neter: Slot size: |                     |
| Vell Capacity Test                | Type of test:                    |                    | Test rate: gpm for hr                                | s. <i>Bi</i>                            | ailTest rate: 2                  | 0 gpm for 1 0 hrs.  |
|                                   | Drawdown: ft.                    |                    | Static water level: 92                               |                                         |                                  | - 9r                |
| Grouting Information              | Material:                        |                    |                                                      | Depth: from to                          |                                  |                     |
|                                   | Installation M                   | ethod:             |                                                      | Number of bags used                     | <b>t</b> :                       |                     |
| Yell Abandonment                  | Sealing materi                   | al:                |                                                      | Depth: from to                          |                                  |                     |
|                                   | Installation Mo                  | ethod:             |                                                      | Number of bags used                     | I:-                              |                     |
| Administrative                    | County: LAWI                     | RENCE              |                                                      | Township: 51                            | N Range: 1W                      |                     |
|                                   | Section: NE 1/-                  | 4 of the SE 1/4 of | of the NE 1/4 of Section 5                           |                                         |                                  | Topo map: OOLITIC   |
|                                   | Field located b                  | y: JCH             |                                                      | on: Mon, Aug                            | g 01, 1966                       |                     |
|                                   | Courthouse loc                   | ation by:          |                                                      | on:                                     |                                  |                     |
|                                   | Location accep                   | ited w/o verifica  | tion by:                                             | on:                                     |                                  |                     |
|                                   | Subdivision na                   | me:                |                                                      | Lot number:                             |                                  |                     |
|                                   | Ft W of EL:                      |                    | Ft N of SL:                                          | Ft E of WL:                             | 2200                             | Ft S of NL: 1900    |
|                                   | Ground elevati                   | on: 650 0          | Depth to bedrock:                                    | Bedrock eleve                           | uion: 625 0                      | Aquifier elevation: |
|                                   | UTM Easting:                     | 539394 0           |                                                      | UTM Northin                             | ig: 4305496 0                    |                     |
| ell Log                           | Тор                              | Bottom             | Formation                                            |                                         |                                  |                     |
|                                   | 0.0                              | 24 0               | CLAY                                                 |                                         |                                  |                     |
|                                   | 24 0                             | 25 0               | BLANK                                                |                                         |                                  |                     |
|                                   | 25 0                             | 50 0               | 18                                                   |                                         |                                  |                     |
|                                   | 50 0                             | 85 0               | HARDI IME I                                          | BLUE                                    |                                  |                     |
|                                   | 85 0                             | 90.0               | GREYLIME                                             |                                         |                                  |                     |
|                                   | 90 0                             | 120 0              | WHBUFF                                               |                                         |                                  |                     |
|                                   | 120 0                            | 135 0              | MDTM                                                 |                                         |                                  |                     |
|                                   | 135 0                            | 155.0              | SOFT-OREY                                            |                                         |                                  |                     |
|                                   | 155.0                            | 190 0              | HARDIME                                              |                                         |                                  |                     |
|                                   |                                  |                    |                                                      |                                         |                                  |                     |

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## Record of Water Well

| Reference Number                        | Driving directions i                               | o well     | and the man was the second  | De                                        | te completed        |
|-----------------------------------------|----------------------------------------------------|------------|-----------------------------|-------------------------------------------|---------------------|
| 220916                                  | W OF OOLITIC 2 MI OVER PATTEN HILL ON N SIDE OF RD |            |                             | ) Sa                                      | t, Jun 17, 1967     |
| Owner-Contractor Well Owner             | <i>Name</i><br>BYRON BAKER                         |            | Address<br>BEDFORD R        | Te                                        | lephone             |
| Building Contractor Drilling Contractor | ROY EALFORD                                        | j          | R2, MITCHELL                |                                           |                     |
| Equipment Operator                      | ROY EALFORD                                        |            | License:                    |                                           |                     |
| Construction Details                    |                                                    |            |                             |                                           |                     |
| Well                                    | Use: HOME                                          | i          | Drilling method: CABLE TOOL | Pump type:                                |                     |
|                                         | Depth: 125.0                                       | i          | Pump setting depth:         | Water quality:                            |                     |
| Casing                                  | Length: 44 5                                       |            | Material:<br>Material:      | Diameter: 6.62<br>Diameter: Slot size     |                     |
| Screen                                  | Length:                                            | 1          | viaterial:                  | Diameter: Stot size                       | <b>*</b>            |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft                      |            |                             | BailTest rate: }                          | 0 gpm for hrs       |
| Grouting Information                    | Material:<br>Installation Method                   | 'e         |                             | epth: from to<br>umber of bags used:      |                     |
| Well Abandonment                        | Sealing material:<br>Installation Method           | <i>:</i>   |                             | epth: from to<br>umber of bags used:      |                     |
| Administrative                          | County: LAWRENC                                    |            | of the NW 1/4 of Section 5  | Township: 5N Range: 1W                    | Topo map: OOLITIC   |
|                                         |                                                    |            |                             | on: Tue Aug (19, 1079                     | Topo map. OOLITIC   |
|                                         | Field located by: JR  Courthouse location          |            |                             | on: Tue, Aug 08, 1978 on:                 |                     |
|                                         | Location accepted w                                |            | on by:                      | оп:                                       |                     |
|                                         | Subdivision name:                                  |            |                             | Lot number:                               |                     |
|                                         | Ft W of EL:                                        |            | Ft N of SL:                 | Ft E of WL: 550                           | Ft S of NL: 1200    |
|                                         | Ground elevation: 6                                | 60 0       | Depth to bedrock: 44 0      | Bedrock elevation: 616 0                  | Aquifier elevation: |
|                                         | UTM Easting: 5389                                  | 130        |                             | UTM Northing: 4305710 0                   |                     |
| Well Log                                | Тор                                                | Bottom     | Formation                   |                                           |                     |
| -                                       | 0 0                                                | 44 5       | SOIL & CLAY                 |                                           |                     |
|                                         | 44 5                                               | 57.0       | GRAY LIME                   |                                           |                     |
|                                         | 57 0                                               | 68 0       | BRLIME                      |                                           |                     |
|                                         | 68 0                                               | 82.0       | GRAY LIME                   |                                           |                     |
|                                         | 82 0                                               | 1250       | WHILIME                     |                                           |                     |
| Comments                                | MC 616, OWNER \                                    | ERIFIED/50 | NW OF HOUSE                 | the game of the Address to the company of |                     |

| A 1 = 0 = 0                 | Driving directions to well                                      | Date completed                     |                                |                           |  |
|-----------------------------|-----------------------------------------------------------------|------------------------------------|--------------------------------|---------------------------|--|
| 217979                      | 5MI E OF BEDFORD, ON THE LEATHERWOOD RD. & I LEATHERWOOD CHURCH |                                    | RECTLY S OF                    | Wed, Dec 02, 1959         |  |
| Owner-Contractor Well Owner | Name<br>H.E. WEAVER                                             | Address<br>R R. 6 BEDFORD, INDIANA |                                | Telephone                 |  |
| Building Contractor         | H.E. WEAVER                                                     | K K. 0 BEDFORD, INDIANA            |                                |                           |  |
| Drilling Contractor         |                                                                 | BOX 13 R R. 6 BEDFORD, IN          | IDIANA                         |                           |  |
| Equipment Operator          | ERNIE UMPHRESS & SONS                                           | License:                           |                                |                           |  |
| Construction Details        |                                                                 |                                    |                                |                           |  |
| Well                        | Use: HOME                                                       | Drilling method:                   | Pump type:                     |                           |  |
|                             | Depth: 100.0                                                    | Pump setting depth                 | Water quality                  |                           |  |
| Casing<br>Screen            | Length: 15.75<br>Length:                                        | Material:<br>Material:             | Diameter: 6 0<br>Diameter: Slo |                           |  |
| Well Capacity Test          | Type of test:                                                   | Test rate: gpm for hrs.            | BailTest ra                    | nte: 5 0 gpm for 0.5 hrs. |  |
|                             | Drawdown: ft.                                                   | Static water level: 40.0           | ft.                            |                           |  |
| Grouting Information        | Material:                                                       |                                    | Depth: from to                 |                           |  |
|                             | Installation Method:                                            |                                    | Number of bags used:           |                           |  |
| Well Abandonment            | Sealing material:<br>Installation Method:                       |                                    | Depth: from to                 |                           |  |
|                             | institution method:                                             |                                    | Number of bags used:           |                           |  |
| Administrative              | County: LAWRENCE<br>Section: NE 1/4 of the NW 1/4               | and the NEE 1/1 of Common 27       | Township: 5N Range:            |                           |  |
|                             |                                                                 | of the NE 1/4 of Section 22        | F= 1.4.01, 1040                | Topo map: BEDFORD EAST    |  |
|                             | Field located by: BARNES  Courthouse location by:               |                                    | on: Fn, Jul 01, 1960<br>on:    |                           |  |
|                             | Location accepted w/o verifica                                  | uian hu                            | on:                            |                           |  |
|                             | Subdivision name:                                               | aton by.                           | Lot number:                    |                           |  |
|                             | Ft W of EL. 1700                                                | Ft N of SL:                        | Ft E of WL:                    | Ft S of NL: 100           |  |
|                             | Ground elevation: 700 0                                         | Depth to bedrock: 12.0             | Bedrock elevation:<br>688 0    | Aquifier elevation.       |  |
|                             | UTM Easting 552845 0                                            |                                    | UTM Northing: 43013            | 263 0                     |  |
| Well Log                    | Top Bottom                                                      | Formation                          |                                |                           |  |
|                             | 0.0 12.0                                                        | DIRT FLINT R                       | OCK                            |                           |  |
|                             | 12 0 40 0                                                       | GRAY LS                            |                                |                           |  |
|                             | 40.0                                                            | BLUE LS HAR                        | D                              |                           |  |
|                             | 90 0 100 0                                                      | BLUE SH                            |                                |                           |  |
|                             | 700                                                             |                                    |                                |                           |  |

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marana Department of Francial Resources

#### Indiana Department of Natural Resources

| Reference Number                                | Driving directions to well              |                                                                            |                                                           |                                 | Date completed           |  |
|-------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------|--------------------------|--|
| 217984                                          | 5MI E OF BEDFORD ON<br>SCHOOL HOUSE     | 5MI E OF BEDFORD ON LEATHERWOOD RD, ABOUT .2MI E OF SHAWSWICK SCHOOL HOUSE |                                                           |                                 |                          |  |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>K SNOW                   | Address<br>R. 6                                                            |                                                           |                                 | Telephone                |  |
| Drilling Contractor Equipment Operator          | ERNIE UMPHRESS & SO                     | NS R.R 6 BO2<br>License                                                    | X 13 BEDFORD IND                                          |                                 |                          |  |
| Construction Details                            |                                         |                                                                            |                                                           |                                 |                          |  |
| Well                                            | Use: HOME                               | Drilling me                                                                | ethod: CABLE TOOL                                         | Pump type:                      |                          |  |
|                                                 | Depth: 90 0                             | Pump setti                                                                 |                                                           | Water quality                   | y:                       |  |
| Casing                                          | Length: 25 5                            | Material:                                                                  |                                                           | Diameter: 6                     | 0                        |  |
| Screen                                          | Length:                                 | Material:                                                                  |                                                           | Diameter: Sl.                   | ot size:                 |  |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft           |                                                                            | Test rate: gpm for hrs BailTe Static water level: 45 0 ft |                                 | ate: 6 0 gpm for 1 0 hrs |  |
| Grouting Information                            | Material:<br>Installation Method:       |                                                                            | -                                                         | oth: from to nber of bags used: |                          |  |
| Well Abandonment                                | S aling material: 1 istallation Method: |                                                                            | =                                                         | th: from to nber of bags used:  |                          |  |
| Administrative                                  | Соилту: LAWRENCE                        |                                                                            |                                                           | Township: 5N Range              | : 1E                     |  |
|                                                 | Section: NW 1/4 of the NW               | 1/4 of the NE 1                                                            | /4 of Section 22                                          |                                 | Topo map: BEDFORD EAST   |  |
|                                                 | Field located by: JUH                   |                                                                            |                                                           | on: Mon, Aug 01, 196            | 56                       |  |
|                                                 | Courthouse location by:                 |                                                                            |                                                           | on:                             |                          |  |
|                                                 | Location accepted w/o very              | ication by:                                                                |                                                           | on:                             |                          |  |
|                                                 | Subdivision name:                       |                                                                            |                                                           | Lot number                      |                          |  |
|                                                 | Ft W of EL: 2300                        | Ft N of                                                                    | SL:                                                       | Ft E of WL: Bedrock elevation:  | Ft S of NL: 100          |  |
|                                                 | Ground elevation: 705 0                 | Depth t                                                                    | Depth to bedrock: 10 0                                    |                                 | Aquifier elevation:      |  |
|                                                 | UFM Easting: 552646 0                   |                                                                            | UTM Northing: 4301                                        |                                 | 267 0                    |  |
| Well Log                                        | Гор Вон                                 | om                                                                         | Formation                                                 |                                 |                          |  |
| ø                                               | 0 0 10 0                                |                                                                            | DIRT                                                      |                                 |                          |  |
|                                                 | 10 0 20 0                               |                                                                            | LS BOULDERS HA                                            | RD                              |                          |  |
|                                                 | 20 0 60 0                               |                                                                            | WH LS HARD                                                |                                 |                          |  |
|                                                 | 60 0 75 0                               |                                                                            | BLUE LS HARD                                              |                                 |                          |  |
|                                                 |                                         |                                                                            |                                                           |                                 |                          |  |

Comments VIC 695 Page 9605

#### Indiana Department of Natural Resources

| Reference. | Number |
|------------|--------|
| 21709      | O      |

Driving directions to well

Date completed

*2179*89

3MI E OF BEDFORD ON LEATHERWOOD RD, 1MI W SHAWSWICK SCHOOL

Mon, Aug 03, 1964

Owner-Contractor Well Owner

Address

**Building Contractor** Drilling Contractor

KEDRIC BOLTON

Name

R 6 BEDFORD, IND

Telephone

Equipment Operator

ERNIE UMPHRESS & SONS BEDFORD, IND R R 6 EUGENE & CHARLES

Pump setting depth:

**UMPHRESS** 

License

Construction Details

Well

Use: STOCK Depth: 200 0 Drilling method: CABLE TOOL

Pump type: Water quality:

Casing Screen

Length: 120 Length:

Material: Material: Diameter: 60 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft Test rate: gpm for hrs. Static water level: 95 0 ft BailTest rate: 0 5 gpm for hrs

Grouting Information

Material: Installation Method: Depth: from to Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the NE 1/4 of the NW 1/4 of Section 21

Township: 5N Range: 1E

Topo map: BEDFORD EAST

Field located by: JCH

Courthouse location by:

on: Mon, Aug 01, 1966

Location accepted w/o verification by:

on: on.

Subdivision name:

Ft W of EL:

Ft N of SL:

Lot number Ft E of WL 1900 Ft S of NL: 100

Ground elevation: 685 0

Depth to bedrock: 50

Bedrock elevation 680.0

Aquifier elevation:

UTM Easting: 550770 0

UTM Northing 4301287 0

Well Log

| Тор   | Bottom | Formation    |  |
|-------|--------|--------------|--|
| 0 0   | 3 0    | DIRT         |  |
| 3 0   | 9 0    | BLUF IS HARD |  |
| 9 ()  | 23 0   | GRAY LS SOFT |  |
| 23 0  | 57 0   | BLUE LN HARD |  |
| 57 () | 78 0   | BLUEISSOFT   |  |
| 78.0  | 1100   | WH LS HARD   |  |
| 1100  | 200 0  | BLUE SH SOFT |  |
|       |        |              |  |

Comments

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## Record of Water Well

| Reference Number                         | Driving directions to well                   |                                         |                                | Date completed           |  |
|------------------------------------------|----------------------------------------------|-----------------------------------------|--------------------------------|--------------------------|--|
| 218029                                   | NEAR SW CORNER OF SW SOUTH FROM LEATHER WO   | QUARTER OF NE QUARTER OF A<br>DOD CREEK | ABOVE LOCATION - 100'          | Mon, Nov 07, 1960        |  |
| Owner-Contractor Well Owner              | Name<br>J E. SPEER                           | Address<br>ROUTE 6, BEDFORD IN          |                                | Telephone                |  |
| Building Contractor  Drilling Contractor | ERNIE UMPHRESS & SONS                        | RR 6, BOX 13, BEDFORD IN                |                                |                          |  |
| Equipment Operator                       | ERNIE UMPHRESS & SONS                        | License:                                |                                |                          |  |
| Construction Details                     |                                              |                                         |                                |                          |  |
| Well                                     | Use: STOCK                                   | Drilling method: CABLE TOOL             | Pump type:                     |                          |  |
|                                          | Depth: 100.0                                 | Pump setting depth:                     | Water quality.                 | :                        |  |
| Casing<br>Screen                         | Length: 10.58<br>Length:                     | Material:<br>Material:                  | Diameter: 6.0<br>Diameter: Slo |                          |  |
| ) Crecii                                 | Lengin.                                      | Muterial.                               | Diameter. Sto                  | . 3120.                  |  |
| Well Capacity Test                       | Type of test:                                | Test rate: gpm for hrs.                 | BailTest ra                    | te: 0 05 gpm for 1 0 hrs |  |
|                                          | Drawdown: ft.                                | Static water level: 20 0 ft             |                                |                          |  |
| Grouting Information                     | Material: Dep.                               |                                         | oth: from to                   |                          |  |
|                                          | Installation Method:                         | Nu                                      | mber of bags used:             |                          |  |
| Well Abandonment                         | Sealing material:                            | Dep                                     | pth: from to                   |                          |  |
|                                          | Installation Method:                         | Nu                                      | mber of bags used:             |                          |  |
| Administrative                           | County: LAWRENCE                             |                                         | Township: 5N Range:            |                          |  |
|                                          | Section: SW 1/4 of the SW 1/4                | of the NE 1/4 of Section 16             | Topo map: BEDFORD EAS          |                          |  |
|                                          | Field located by: JVH                        |                                         | on: Mon, Aug 01, 1966          |                          |  |
|                                          | Courthouse location by:                      |                                         | on:                            |                          |  |
|                                          | Location accepted w/o verifica               | tion by:                                | on:                            |                          |  |
|                                          | Subdivision name:                            |                                         | Lot number:                    |                          |  |
|                                          | Ft W of EL: 2400                             | Ft N of SL: 3100                        | Ft E of WL:                    | Ft S of NL:              |  |
|                                          | Ground elevation: 650 0 Depth to bedrock 5 0 |                                         | Bedrock elevation:<br>645 0    | Aquifier elevation:      |  |
|                                          | UTM Easting:                                 |                                         | UTM Northing:                  |                          |  |
| Vell Log                                 | Top Bottom                                   | Formation                               |                                |                          |  |
|                                          | 0.0 0.0                                      |                                         |                                |                          |  |



#### Indiana Department of Natural Resources

Reference Number

218034

Driving directions to well

Date completed

Telephone

APP. 3MI E OF BEDFORD, IND ON S LEATHER WOOD RD

Fn, Jun 26, 1964

- -- - - - - - -

Owner-Contractor

Well Owner **Building Contractor** Drilling Contractor

Equipment Operator

Name J E. SPEER Address

R 6 BEDFORD, IND.

ERNIE UMPHRESS & SONS BEDFORD, IND R R. 6

**EUGENE & CHARLES UMPHRESS** 

License:

Construction Details

Well

Casing Screen Use: HOME

Drilling method: CABLE TOOL

Pump setting depth:

Depth: 200 0 Length: 55 Material: Material:

Pump type:

Water quality: Diameter: 60 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft

Length:

Test rate: gpm for hrs. Static water level: 88 0 ft BailTest rate: 0 33 gpm for hrs

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 16

Township: 5N Range: 1E

on: Mon, Aug 01, 1966

Topo map: BEDFORD EAST

Field located by: JCH Courthouse location by:

Location accepted w/o verification by:

Subdivision name:

Ft W of EL: 2400

Ft N of SL: 3100

Lot number: Ft E of WL:

Ft S of NL:

Ground elevation: 650 0 UTM Easting. 550999 0

Depth to bedrock: 50

Bedrock elevation:

Aquifier elevation

645 0

on:

on:

UTM Northing: 4302262 0

Well Log

| Top   | Botton   | Formation     |  |
|-------|----------|---------------|--|
| 0 0   | 4.0      | DIRC          |  |
| 4 0   | 29.0     | GRAY LS HARD  |  |
| 24 0  | 60.0     | GRAY LS SOFT  |  |
| 60 0  | 1) O() [ | BI UE LS HARD |  |
| 109 0 | 133 ()   | GRAY LS HARD  |  |
| 133 0 | 138 )    | BLUF SH SOFT  |  |
| 138 0 | 150 /    | WHLS HARD     |  |
| 1500  | 150      | BULFISSOFT    |  |
| 156 0 | 200      | BLUE SHISOFT  |  |
|       |          |               |  |

MC645, WELL 1 OF 2 Comments

| Reference Number                         | Driving directions to well              | athleten to some although on annual some            | Date completed                          |
|------------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------|
| 218039                                   | NE ABOUT 25MI FROM SE                   | HAWSWICK SCHOOL IN REVEIN                           | Wed Nov 28 1962                         |
| Owner Contractor Well Owner              | <i>Name</i><br>CHARLES A SNOW           | Address<br>RFD#6                                    | Telephon <b>e</b>                       |
| Building Contractor  Drilling Contractor | ERNIE UMPHRESS & SONS                   | BEDFORD IND RR 6                                    |                                         |
| Equipment Operator                       | EUGENE & CHARLES<br>UMPHRESS            | License                                             |                                         |
| Construction Details                     |                                         |                                                     |                                         |
| Well                                     | Use STOCK                               | Drilling method CABLE TOOL                          | Pump type                               |
|                                          | Depth 60 0                              | Pump setting depth                                  | Water quality                           |
| Casing<br>Screen                         | Length 140<br>Length                    | Material<br>Material                                | Diameter 60<br>Diameter Slot size       |
| Well Capacity Test                       | Type of test<br>Drawdown ft             | Test rate gpm for hrs<br>Static water level 14 0 ft | BailTest rate 3 0 gpm for hrs           |
| Grouting Information                     | Material<br>Installation Method         |                                                     | epth from to<br>umber of bags used      |
| Well Abandonment                         | Sealing material<br>Installation Method |                                                     | pth from to umber of bags used          |
| Administrative                           | County LAWRENCE                         |                                                     | Township 5N Range 1E                    |
|                                          | Section NW 1/4 of the NE 1/4            | of the SE 1/4 of Section 15                         | Topo map BEDFORD EAST                   |
|                                          | Field located by JUH                    |                                                     | on Mon Aug 01 1966                      |
|                                          | Courthouse location by                  |                                                     | on                                      |
|                                          | Location accepted w/o verifica          | uion by                                             | on                                      |
|                                          | Subdivision name                        |                                                     | Lot number                              |
|                                          | Ft W of EI 900                          | Ft N of SL 2300                                     | $Ft E of WL \qquad Ft \land of \land l$ |
|                                          | Ground elevation 6500                   | Depth to bedrock                                    | Bedrock elevation Aquifier elevation    |
|                                          | UTM Fasting 5530(80)                    |                                                     | UTM Northing 43019) (                   |
| Well Log                                 | Гор Вонот                               | Formation                                           |                                         |
|                                          | 0 0 36 0                                | ORIGINAL WELL                                       |                                         |
|                                          | 36.0 60.0                               | BLUE SH                                             |                                         |
| Comments                                 | MC OLD WELL DRILLED DE                  | EPER                                                |                                         |

195

## Record of Water Well

-----

| Reference Number                         | Driving directions to well          |                                                       |                                | Date completed          |
|------------------------------------------|-------------------------------------|-------------------------------------------------------|--------------------------------|-------------------------|
| 218044                                   | E OF BEDFORD OFF SR 50              | IMI AT SHAWSWICK SCHOOL                               |                                | Tue, Aug 23, 1960       |
| Owner-Contractor                         | Name                                | Address                                               |                                | Telephone               |
| Well Owner                               | SHAWSWICK TOWNSHIP<br>SCHOOL        | R R #6 BEDFORD, IND.                                  |                                |                         |
| Building Contractor  Drilling Contractor | 36.1163 <u>P</u>                    |                                                       |                                |                         |
| Equipment Operator                       |                                     | License                                               |                                |                         |
| Construction Details                     |                                     |                                                       |                                |                         |
| Well                                     | Use: PUBLIC SUPPLY                  | Drilling method: CABLE TOOL                           | Pump type:                     |                         |
|                                          | Depth: 200 0                        | Pump setting depth:                                   | Water quality:                 | •                       |
| Casing<br>Screen                         | Length: 80<br>Length:               | Material:<br>Material:                                | Diameter: 6 0<br>Diameter: Slo |                         |
| Well Capacity Test                       | Type of test:<br>Drawdown: 140 0 ft | Test rate: gpm for hrs<br>Static water level: 60 0 ft | BailTest ra                    | te: 2 5 gpm for 2 0 hrs |
| Grouting Information                     | Material:                           | Dep                                                   | oth: from to                   |                         |
| ,                                        | Installation Method:                | Nui                                                   | mber of bags used:             |                         |
| Well Abandonment                         | Sealing material: Do                |                                                       | oth: from to                   |                         |
|                                          | Installation Method:                | Nur                                                   | nber of bags used:             |                         |
| Administrative                           | County: LAWRENCE                    |                                                       | Township: 5N Range:            | 1E                      |
|                                          | Section. SE 1/4 of the SE 1/4 of    | of the SW 1/4 of Section 15                           |                                | Topo map: BEDFORD EAST  |
|                                          | Field located by: S&H               |                                                       | on. Thu, Nov 03, 1960          | 1                       |
|                                          | Courthouse location by:             |                                                       | on:                            |                         |
|                                          | Location accepted w/o verifica      | ution by:                                             | on.                            |                         |
|                                          | Subdivision name:                   |                                                       | Lot number:                    |                         |
|                                          | Ft W of EL:                         | Ft N of SL: 25                                        | Ft E of WL 2550                | Ft S of NL:             |
|                                          | Ground elevation: 720 0             | Depth to bedrock: 5 0                                 | Bedrock elevation:<br>715 ()   | Aquifier elevation      |
|                                          | UTM Easting: 552534 0               |                                                       | UTM Northing: 43013            | 013 0                   |
| Well Log                                 | Lop Bottom                          | Formation                                             |                                |                         |
|                                          | 0.0 5.0                             | DIRT                                                  |                                |                         |
|                                          | 5.0 70.0                            | BLUE LS HARD                                          |                                |                         |
|                                          | 70 0 200 0                          | BLUE SH                                               |                                |                         |
| Comments                                 | MC7.5 OFFIC CHEM IRON               | 0 2PPM, HARDNESS 335PPM, PH                           | 8.0. CHL - ***DE12PPM          |                         |

| Reference Number                        | Driving directions to well                                               | and the same of th |                                    | Date completed        |  |
|-----------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------|--|
| 218049                                  | E OF BEDFORD IMIS OF U                                                   | JS RD 50 AT SHAWSWICK SCHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sat, Aug 20, 1960                  |                       |  |
| Owner-Contractor Well Owner             | Name<br>SHAWSWICK TOWNSHIP                                               | Address<br>R.R. 6 BEDFORD, IND.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    | Telephone             |  |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                                                    | BEDFORD IND. R.R. 6 BOX 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |                       |  |
| Equipment Operator                      | ERNIE UMPHRESS & SONS                                                    | License:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                       |  |
| Construction Details                    |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                       |  |
| Well                                    | Use: PUBLIC SUPPLY                                                       | Drilling method: CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pump type:                         |                       |  |
| _                                       | Depth: 150.0                                                             | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quality                      | :                     |  |
| Casing<br>Screen                        | Length:<br>Length:                                                       | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter:<br>Diameter: Slo         | ot size:              |  |
| Well Capacity Test                      | Type of test: Test rate: gpm for his Drawdown: ft Static water level: ft |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BailTest ro                        | te: gpm for hrs.      |  |
| Grouting Information                    | Material:<br>Installation Method:                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | pth: from to<br>mber of bags used: |                       |  |
| Well Abandonment                        | Sealing material:<br>Installation Method:                                | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | pth: from to<br>mber of bags used: |                       |  |
| Administrative                          | County: LAWRENCE                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township: 5N Range:                | 1E                    |  |
|                                         | Section: SE 1/4 of the SE 1/4 of                                         | of the SW 1/4 of Section 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                    | Topo map: BEDFORD EAS |  |
|                                         | Field located by: S&H                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on: Thu, Nov 03, 1960              |                       |  |
|                                         | Courthouse location by:                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                                |                       |  |
|                                         | Location accepted w/o verifica                                           | tion by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | on:                                |                       |  |
|                                         | Subdivision name:                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number:                        |                       |  |
|                                         | Ft W of EL:                                                              | Ft N of SL: 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ft E of WL: 2400                   | Ft S of NL:           |  |
|                                         | Ground elevation: 730 0                                                  | Depth to bedrock: 6 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Bedrock elevation: 724 ()          | Aquifier elevation:   |  |
|                                         | UTM Easting: 552486 0                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing: 43013                | 34 0                  |  |
| Well Log                                | Top Bottom                                                               | Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |                       |  |
|                                         | 0 0                                                                      | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                       |  |
|                                         | 6 0 80 0                                                                 | BLUE LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                       |  |
|                                         | 80 0 150 0                                                               | BLUE SH SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                       |  |
| Comments                                | FC ONLY: DRY WELL:                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                       |  |

| Reference Number                        | Driving directions to we                | ell                                   | n, nin hall slave planyaries bestätte p     | aus to underthin du se nervere in bifei | Date completed                          |
|-----------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------------|
| 217369                                  | SHAWSWICK STATIO                        | ON ERIE RD                            |                                             |                                         | Thu Oct 08 1959                         |
| Owner Contractor Well Owner             | <i>Name</i><br>ROLAPH BECHNER           | Address<br>R 3 BEDF                   | ORD IND                                     |                                         | Telephone                               |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & :                      | SONS RR 6 BOX                         | ( 13 BEDFORD IND                            |                                         |                                         |
| Equipment Operator                      | ERNIE UMPHRESS & S                      | SONS License                          |                                             |                                         |                                         |
| Construction Details                    |                                         |                                       |                                             |                                         |                                         |
| Well                                    | Use HOME                                | Drilling me                           | thod CABLE TOOL                             | Pump type                               |                                         |
|                                         | Depth 275 0                             | Pump settin                           | ng depth                                    | Water quality                           |                                         |
| Casing<br>Screen                        | Length 15.75                            | Material<br>Material                  |                                             | Diameter 60<br>Diameter Slo             |                                         |
| Screen                                  | Length                                  | Material                              |                                             | Diameter Sio                            | 1 3126                                  |
| Well Capacity Test                      | Type of test<br>Drawdown ft             |                                       | t rate gpm for hrs<br>ic water level 1170 f |                                         | ute 0 08 gpm for 1 0 hrs                |
| Grouting Information                    | Material<br>Installation Method         |                                       |                                             | epth from to<br>umber of bags used      |                                         |
| Well Abandonment                        | Sealing material<br>Installation Method |                                       |                                             | epth from to<br>umber of bags usea      |                                         |
| Administrative                          | County LAWRENCE Section SE 1/4 of the N | W 1/4 of the SE 1/4                   | of Section 9                                | Township SN Range                       | 1E<br>Topo map<br>BARTLETTSVILLE        |
|                                         | Field located by 1&H                    |                                       |                                             | on Thu Nov 03 1960                      | )                                       |
|                                         | Courthouse location by                  |                                       |                                             | on                                      |                                         |
|                                         | Location accepted w/o v                 | erification by                        |                                             | on                                      |                                         |
|                                         | Subdivision name                        |                                       |                                             | Lot number                              |                                         |
|                                         | Ft W of EL 2000                         | Ft V                                  | of SL 1900                                  | Ft E of WL                              | Ft S of NL                              |
|                                         | Ground elevation 725 0                  | ) Depth                               | to bedrack 80                               | Bedrock elevation                       | Aquifier elevation                      |
|                                         | UTM Easting 551113 0                    |                                       |                                             | UTM Northing 4303                       | 501 0                                   |
| Well Log                                | Тор Е                                   | Bottom                                | Form 1 1                                    |                                         |                                         |
|                                         | 0 0                                     | 3 0                                   | DIRT                                        |                                         |                                         |
|                                         | 8 0                                     | 10                                    | CRAYIS FT                                   |                                         |                                         |
|                                         | 21 0 7                                  | 0 0                                   | WHISS                                       |                                         |                                         |
|                                         | 70 0 9                                  | 0 0                                   | WHISHARD                                    |                                         |                                         |
|                                         | 90 0 9                                  | 95 0                                  | BLUEIN FT                                   |                                         |                                         |
|                                         | 950                                     | 10 0                                  | WHI >                                       |                                         |                                         |
|                                         | 110 0                                   | 45 0                                  | Bit+1 +1                                    |                                         |                                         |
|                                         |                                         | 275 0                                 | BEI EC                                      |                                         |                                         |
| n nent                                  | МС                                      | · · · · · · · · · · · · · · · · · · · |                                             |                                         | * - + ********************************* |

| Reference Number                        | Driving directions to                     | o well            | a managara sa a da |                                       | Date completed     |
|-----------------------------------------|-------------------------------------------|-------------------|-----------------------------------------------------|---------------------------------------|--------------------|
| 217374                                  | 1/4 MI N OF US HIC<br>STATION AND ERI     | Mon, Sep 19, 1960 |                                                     |                                       |                    |
| Owner-Contractor Well Owner             | Name<br>ALDOLPH BECKNE                    |                   | Address                                             |                                       | Telephone          |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS                            | & SONS R          | RR 6, BEDFORD IN                                    |                                       |                    |
| Equipment Operator                      | ERNIE UMPHRESS                            | & SONS L          | icense                                              |                                       |                    |
| Construction Details                    |                                           |                   |                                                     |                                       |                    |
| Well                                    | Use:                                      | D                 | Orilling method: CABLE TO                           | OL Pump type                          |                    |
|                                         | Depth: 125 0                              |                   | ump setting depth:                                  | Water qual                            | ity:               |
| Casing<br>Screen                        | Length:<br>Length:                        |                   | Iaterial:<br>Iaterial:                              | Diameter:<br>Diameter: S              | Slot size:         |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft             |                   | Test rate: gpm for hrs<br>Static water level: ft    | Bai/Test                              | rate: gpm for hrs  |
| Construct Information                   | Material:                                 |                   |                                                     | Death form                            |                    |
| Grouting Information                    | materiat:<br>Installation Method:         |                   |                                                     | Depth: from to Number of bags used    |                    |
| Well Abandonment                        | Sealing material:<br>Installation Method: |                   |                                                     | Depth: from to Number of bags used:   |                    |
| Administrative                          | County: LAWRENCE                          | F                 |                                                     | Township: 5N Ranj                     | 70· 1F             |
| / Laministrative                        | -                                         |                   | the SE 1/4 of Section 9                             | Township. Siv Kang                    | Topo map           |
|                                         | Field located by: H &                     |                   |                                                     | on: Thu, Nov 03, 19                   | BARTLETTSVILLE     |
|                                         | Courthouse location                       |                   |                                                     | on:                                   |                    |
|                                         | Location accepted w/                      | -                 | n by·                                               | on:                                   |                    |
|                                         | Subdivision name:                         | J                 | •                                                   | Lot number:                           |                    |
|                                         | Ft W of EL: 2000                          |                   | Ft N of SL 1400                                     | Ft E of WL:                           | Ft S of NL         |
|                                         | Ground elevation: 72                      | •                 |                                                     | Bedrock elevation · 717 0             | Aquifier elevation |
|                                         | UTM Easting.                              |                   |                                                     | UTM Northing                          |                    |
| Well I og                               | Тор                                       | Bottom            | Formation                                           |                                       |                    |
|                                         | 0 0                                       | 8 0               | DIRI                                                |                                       |                    |
|                                         | 8 0                                       | 21.0              | GRAYLIMES                                           | TONE SOFT                             |                    |
|                                         | 210                                       | 70 (              | WHITE LIMES                                         | HONE SOFT                             |                    |
|                                         | 70 0                                      | 9(1()             | WHITELIMES                                          | 10NE HARD                             |                    |
|                                         | 90 0                                      | 950               | BLLFLIMES                                           | ONE SOFT                              |                    |
|                                         | 95 0                                      | 111 0             | WHITE LIMES                                         | ONE SOFT                              |                    |
|                                         | 110 0                                     | 1250              | BLUETIMEST                                          | ONE SOFT                              |                    |
| Comments                                | DRY HOLE                                  |                   |                                                     | ode hade A. de A. to deligately large |                    |

| Reference Number                                                    | Driving directions to well                          | parker have a store above embles and a second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | B Nor Laboratable 3 to 2 has accommodify given declar | Date completed                        |
|---------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------|
| 217379                                                              | APPR. 3MI E OF BEDFOR                               | D, IND. ON SR 50 N/SIDE OF H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UGHWAY                                                | Thu, Jul 22, 1965                     |
| Owner-Contractor Well Owner Building Contractor Drilling Contractor | <i>Name</i><br>JAMES HEWITT<br>ERNIE UMPHRESS & SON | Address BEDFORD, IND. R R. 6 IS BEDFORD, IND. R R. 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       | Telephone                             |
| Equipment Operator                                                  | EUGENE & CHARLES<br>UMPHRESS                        | License:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                       |                                       |
| Construction Details                                                |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |                                       |
| Well                                                                | Use: HOME                                           | Drilling method: CABLE TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OOL Pump type:                                        |                                       |
|                                                                     | Depth: 85.0                                         | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quali                                           | ity:                                  |
| Casing<br>Screen                                                    | Length: 18.0<br>Length:                             | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter: 6<br>Diameter: S                            |                                       |
| Well Capacity Test                                                  | Type of test: Drawdown: ft.                         | Test rate: gpm for hrs<br>Static water level: 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                       | rate: 10 0 gpm for hrs                |
| Grouting Information                                                | Material:<br>Installation Method:                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to Number of bags used:                   |                                       |
| Well Abandonment                                                    | Sealing material:<br>Installation Method:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to Number of bags used:                   |                                       |
| Administrative                                                      | County: LAWRENCE Section: SW 1/4 of the SW 1        | /4 of the SW 1/4 of Section 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Township: 5N Rang                                     | ge: 1E<br>Topo map:<br>BARTLEITSVILLE |
|                                                                     | Field located by: JCH                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on: Mon, Aug 01, 1                                    | 966                                   |
|                                                                     | Courthouse location by:                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                                                   |                                       |
|                                                                     | Location accepted w/o verifi                        | cation by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | on:                                                   |                                       |
|                                                                     | Subdivision name:                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number:                                           |                                       |
|                                                                     | Ft W of EL:                                         | Ft N of SL: 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ft E of WL: 300                                       | Ft S of NL                            |
|                                                                     | Ground elevation: 645 0                             | Depth to bedrock: 15 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Bedrock elevation: 630 0                              | Aquifier elevation:                   |
|                                                                     | UTM Easting: 550232 0                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing: 430                                     | 02962 0                               |
| Well Log                                                            | Top Botto                                           | m Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |                                       |
|                                                                     | 0 0                                                 | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                       |
|                                                                     | 14 0 43 0                                           | BLUE LS HA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RD                                                    |                                       |
|                                                                     | 43 0 55 0                                           | GRAY LS HA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ARD                                                   |                                       |
|                                                                     | 55.0 78.0                                           | BLUE LS HA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |                                       |
|                                                                     | 78 0 85 ()                                          | WH LS HARI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |                                       |
| Comments                                                            | MC630;                                              | and the same of th | n johaldo ohla kirlan <b>Militar</b> an ni            | yan is, is disting yakaninin int      |

# 200

## Record of Water Well

| Reference Number                        | Driving directions to well                       | e septem construction the                                                                                                       | عوا في المساملين بالمدو                 | Date completed                    |  |  |  |
|-----------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|--|--|--|
| 336984                                  | GO TO OTIS PARK, TURN<br>CURVE W/DRIVEWAY CL     | GO TO OTIS PARK, TURN FIRST R HANG TO RT THEN YOU COME AROUND A STEEP Sat, Dec 19, 1998 CURVE W/DRIVEWAY CLOST HANG R DOWN LANE |                                         |                                   |  |  |  |
| Owner-Contractor Well Owner             | <i>Name</i><br>DON L TAYLOR                      | Address<br>RR18 BOX 205, BEDFORD                                                                                                | , IN 47421                              | <i>Telephone</i><br>(812)279-5190 |  |  |  |
| Building Contractor  Dilling Contractor | PHILLIPS WELL DRLNG & PUMP SVC                   | RR12 BOX 444, BEDFORD                                                                                                           | . IN 47421                              | (812)279-4843                     |  |  |  |
| Equipment Operator                      | KEVIN MATHIES                                    | License 1679                                                                                                                    |                                         | •                                 |  |  |  |
| Construction Details                    |                                                  |                                                                                                                                 |                                         |                                   |  |  |  |
| Well                                    | Use: HOME                                        | Drilling method: ROTARY                                                                                                         | P <sub>1</sub>                          | Ama Suna:                         |  |  |  |
| AA CII                                  | Depth: 160 0                                     | Pump setting depth:                                                                                                             |                                         | imp type:<br>ater quality: CLEAR  |  |  |  |
| Casing                                  | Length: 25 0                                     | Material: PVC                                                                                                                   |                                         | ameter: 60                        |  |  |  |
| Screen                                  | Length:                                          | Material:                                                                                                                       |                                         | ameter: Slot size:                |  |  |  |
| Well Capacity Test                      | Type of test: BAILING Drawdown: ft               | Test rate: 7 0 gpm for Static water level: ft                                                                                   | r hrs                                   | BailTest rate: gpm for hrs        |  |  |  |
| Grouting Information                    | Material · BENONITE<br>Installation Method · AIR |                                                                                                                                 | Depth: from 0 0 to<br>Number of bags us |                                   |  |  |  |
| Well Abandonment                        | Sealing material:<br>Installation Method         |                                                                                                                                 | Depth: from to Number of bags us        | sed.                              |  |  |  |
| A dministrative                         | County: LAWRENCE                                 |                                                                                                                                 | Township:                               | 5N Range· 1E                      |  |  |  |
|                                         | Section: 1/4 of the NE 1/4 of t                  | he SW 1/4 of Section 10                                                                                                         |                                         | Topo map: BARTLETTSVILLE          |  |  |  |
|                                         | Field located by:                                |                                                                                                                                 | on                                      |                                   |  |  |  |
|                                         | Courthouse location by:                          |                                                                                                                                 | on                                      |                                   |  |  |  |
|                                         | Location accepted w/o verifica                   | ation by:                                                                                                                       | on                                      |                                   |  |  |  |
|                                         | Subdivision name.                                |                                                                                                                                 | Lot number                              | <del>r</del> ·                    |  |  |  |
|                                         | It W of EL:                                      | Ft N of SL:                                                                                                                     | Ft E of WL                              | Ft S of NL                        |  |  |  |
|                                         | Ground elevation                                 | Depth to bedrock:                                                                                                               | Bedrock ele                             |                                   |  |  |  |
|                                         | ( I M Easting.                                   | ·                                                                                                                               | UTM Nont                                | • •                               |  |  |  |
| Well Log                                | Sotton Botton                                    | n Formation                                                                                                                     |                                         |                                   |  |  |  |
| wen Log                                 | 20 0                                             | CLAY                                                                                                                            |                                         |                                   |  |  |  |
|                                         | 22 0                                             | BRKNSS                                                                                                                          |                                         |                                   |  |  |  |
|                                         |                                                  |                                                                                                                                 |                                         |                                   |  |  |  |
|                                         | 30 0                                             | LS                                                                                                                              | V 1 C                                   |                                   |  |  |  |
|                                         | 42 0                                             | GRAYSAND                                                                                                                        |                                         |                                   |  |  |  |
|                                         | 47 0                                             | HD SANDY S                                                                                                                      | н                                       |                                   |  |  |  |
|                                         | 49 0                                             | LS                                                                                                                              |                                         |                                   |  |  |  |
|                                         | 53.0                                             | SHALEY LS                                                                                                                       |                                         |                                   |  |  |  |
|                                         | 56 0                                             | LS                                                                                                                              |                                         |                                   |  |  |  |
|                                         | 59 0                                             | SHALEY LS                                                                                                                       |                                         |                                   |  |  |  |
|                                         | 67 0                                             | LS                                                                                                                              |                                         |                                   |  |  |  |
|                                         | 70 0                                             | SHALEY LS                                                                                                                       |                                         |                                   |  |  |  |
|                                         | 76 0                                             | LS                                                                                                                              |                                         |                                   |  |  |  |
|                                         | <b>\5</b> ()                                     | HD SHALEY                                                                                                                       | LS                                      |                                   |  |  |  |
|                                         |                                                  |                                                                                                                                 |                                         |                                   |  |  |  |

| Comments | SEE MAP | na val. 1964 ka | and track all a finder — the special partial field — the special partial parti | _ | M. Work about | and ar a walker |  |
|----------|---------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------|-----------------|--|
|          | 1200    | 160 0                                               | SHALEY LS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |               |                 |  |
|          | 89 0    | 120 0                                               | LS WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |               |                 |  |
|          | 85 0    | 89 0                                                | SANDY SH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |               |                 |  |
|          |         |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |               |                 |  |

## 20

| Reference Number                                                             | Driving directions to                        | o well | March State (State (Sta |                                    | Date completed            |
|------------------------------------------------------------------------------|----------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------|
| 217479                                                                       | STATE ROAD #58 APP 600YARDS E OF MILWAKIE RR |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    | Fn, May 06, 1960          |
| Owner-Contractor<br>Well Owner<br>Building Contractor<br>Drilling Contractor | <i>Name</i><br>FRANK E TODD                  |        | Address<br>RR 3 BEDFORD IND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                    | Telephone                 |
| Equipment Operator                                                           |                                              | 1      | License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                           |
| Construction Details                                                         |                                              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                           |
| Well                                                                         | Use. HOME                                    | I      | Orilling method: CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pump type                          |                           |
| · · <del>· · ·</del>                                                         | Depth: 175 0                                 |        | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water qualu                        | ty:                       |
| Casing<br>Screen                                                             | Length: 21 0<br>Length:                      | Λ      | Aaterial:<br>Aaterial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Diameter 6<br>Diameter: S          |                           |
| Well Capacity Test                                                           | Type of test.                                |        | Test rate: gpm for hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BailTest i                         | rate. 0 1 gpm for 1 0 hrs |
|                                                                              | Drawdown: ft                                 |        | Static water level. 63 0 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                    |                           |
| Grouting Information                                                         | Material:                                    |        | De                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | epth: from to                      |                           |
|                                                                              | Installation Method                          |        | Nt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | umber of bags used                 |                           |
| Well Abandonment                                                             | Sealing material.<br>Installation Method:    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | epth from to<br>umber of bags used |                           |
| Administrative                                                               | County: LAWRENCE                             |        | f the SE 1/4 of Section 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Township 5N Range                  | e· IE<br>Topo map         |
|                                                                              |                                              |        | tine Se 1/4 of Section 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | M A - 01 10                        | BARTLETTSVILLE            |
|                                                                              | Field located by: BA  Courthouse location    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on Mon Aug 01, 19                  | 00                        |
|                                                                              | Location accepted w                          |        | on by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | on.                                |                           |
|                                                                              | Subdivision name                             | -      | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Lot number                         |                           |
|                                                                              | Ft W of EL 1500                              |        | Ft N of SL: 2300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ft E of WL                         | Ft S of NL                |
|                                                                              | Ground elevation 67                          | 0 0    | Depth to bedrock: 170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Bedrock elevation 653 0            | Aquifier elevation        |
|                                                                              | UTM Easting 55122                            | 4 0    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing 4305                  | 5186 0                    |
| Well Log                                                                     | Тор                                          | Bottom | Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |                           |
| <del>o</del>                                                                 | 0 0                                          | 17 0   | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                           |
|                                                                              | 170                                          | 40 0   | BLUE LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                           |
|                                                                              | 40 0                                         | 175 0  | BLUE SH SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                           |
|                                                                              |                                              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                           |

202

| Reference Number                                | Driving directions to well                                                                                                    | Street Tolorist from the April 5.5 mile " to 4 to 10.0 mile on the April 10.0 mile of the A | AND THE STREET, ST. AS A STREET, S. SE. LE VILLE SELE | Date completed                                                |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|
| 217484                                          | WELL IS APPR 5MI E OF BEDFORD CITY LIMITS OFF SR 58 TURN N ONTO RD 350E&PROCEED APP 75MI WELL IS APP 90 OFF RD 350E ON W/SIDE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       | Sat Mar 01 1969                                               |
| Owner Contractor Well Owner Building Contractor | <i>Name</i><br>J D PEXTON&C M PEXTO                                                                                           | Address<br>NR 1 HELTONVILLE IND 474                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 36                                                    | Telephone                                                     |
| Drilling Contractor                             | ERNIE UMPHRESS & SONS                                                                                                         | R 6 BEFORD INDIANA 47421                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                       |                                                               |
| Equipment Operator                              | CHARLES EMPHRESS                                                                                                              | License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                       |                                                               |
| Construction Details                            |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |                                                               |
| Well                                            | Use HOME                                                                                                                      | Drilling method CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | . Pump type                                           |                                                               |
|                                                 | Depth 2000                                                                                                                    | Pump setting depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Water qualit                                          | y                                                             |
| Casing<br>Screen                                | Length<br>Length                                                                                                              | Material<br>Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Diameter 6<br>Diameter Sl                             |                                                               |
| Well Capacity Test                              | Type of test<br>Drawdown ft                                                                                                   | Test rate gpm for hrs<br>Static water level 80 0 f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                       | rate 0 13 gpm for 1 0 hrs                                     |
| Grouting Information                            | Matenal                                                                                                                       | t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Depth from to                                         |                                                               |
|                                                 | Installation Method                                                                                                           | ۸                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | lumber of bags used                                   |                                                               |
| Well Abandonment                                | Sealing material                                                                                                              | T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Depth from to                                         |                                                               |
|                                                 | Installation Method                                                                                                           | ۸                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | lumber of bags used                                   |                                                               |
| Administrative                                  | County LAWRENCE                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township 5N Range                                     |                                                               |
|                                                 | Section 1/4 of the 1/4 of the 1                                                                                               | /4 of Section 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ;                                                     | Topo map BARTLETTSVILLE                                       |
|                                                 | Field located by                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on                                                    |                                                               |
|                                                 | Courthouse location by                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on                                                    |                                                               |
|                                                 | Location accepted w/o verification                                                                                            | ution by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | on                                                    |                                                               |
|                                                 | Subdivision name                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number                                            |                                                               |
|                                                 | Ft W of EL                                                                                                                    | Ft N of SL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ft E of WL                                            | Ft S of VI                                                    |
|                                                 | Ground elevation                                                                                                              | Depth to bedrock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Bedrock elevation                                     | Aquifier elevation                                            |
|                                                 | UTM Easting                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Vorthing                                          |                                                               |
| Well Log                                        | Top Botton                                                                                                                    | n Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |                                                               |
|                                                 | 0 0 28 0                                                                                                                      | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                                               |
|                                                 | 28 0 200 0                                                                                                                    | BLUE SH SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                       |                                                               |
| Comments                                        | APPROX LOCATION                                                                                                               | als d'Albaharya, as bruh kirak dhar shakay d-dhagadalan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                       | n dan Wi A independe norden delinational de status abbassions |

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| Reference Number                                | Driving directions to w                                           | ell         | regards, of view 1600 Tele Statement (State 1600) the | te uldam dinger digitiquib-mijorishvilian pë ultiqui- | Date completed                                               |
|-------------------------------------------------|-------------------------------------------------------------------|-------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------|
| 217489                                          | N OF SR #58 25MI SW OF HELTONVILLE 4MI OR 5 5MI NE OF BEDFORD IND |             |                                                       |                                                       | Thu Feb 16 1961                                              |
| Owner Contractor Well Owner Building Contractor | <i>Name</i><br>PAULS NEAL                                         |             | ddress<br>R #3 BEDFORD                                |                                                       | Telephone                                                    |
| Drilling Contractor Equipment Operator          | ERNIE UMPHRESS                                                    |             | EATHER WOOD RD BEDFORE                                | ORR 6 BOX 13                                          |                                                              |
| Construction Details                            |                                                                   |             |                                                       |                                                       |                                                              |
| Weil                                            | Use STOCK Depth 1650                                              |             | rilling method CABLE TOOL                             | Pump type<br>Water quality                            |                                                              |
| Casing<br>Screen                                | Length<br>Length                                                  | М           | laterial<br>laterial                                  | Diameter<br>Diameter Slo                              |                                                              |
| Well Capacity Test                              | Type of test<br>Drawdown ft                                       |             | Test rate gpm for hrs Static water level ft           | BailTest ri                                           | ate gpm for hrs                                              |
| Grouting Information                            | Material<br>Installation Method                                   |             | •                                                     | th from to nber of bags used                          |                                                              |
| Well Abandonment                                | Sealing material Installation Method                              |             |                                                       | th from to nber of bags used                          |                                                              |
| Administrative                                  | County LAWRENCE Section NW 1/4 of the                             | SW 1/4 of   | the NW 1/4 of Section 3                               | Township 5N Range                                     | IE<br><i>Topo map</i><br>BARTLETTSVILLE                      |
|                                                 | Field located by UHL                                              |             |                                                       | on Tue Jun 01 1965                                    | VIII. IST IS VILLE                                           |
|                                                 | Courthouse location by                                            |             | •                                                     | on                                                    |                                                              |
|                                                 | Location accepted w/o v<br>Subdivision name                       | erijicatioi | n Dy                                                  | on<br>Lot number                                      |                                                              |
|                                                 | Ft W of EL                                                        |             | Ft N of SL.                                           | Ft E of WL. 500                                       | Ft S of NL. 1400                                             |
|                                                 | Ground elevation 700 (                                            | 0           | Depth to bedrock 210                                  | Bedrock elevation<br>679 0                            | Aquifier elevation                                           |
|                                                 | UTM Easting 551799 (                                              | )           |                                                       | UTM Northing 43056                                    | 531 0                                                        |
| Well Log                                        | Тор                                                               | Bottom      | Formation                                             |                                                       |                                                              |
|                                                 | 0 0                                                               | 210         | DIRT                                                  |                                                       |                                                              |
|                                                 | 21 0                                                              | 25 0        | BLUE LS HARD                                          |                                                       |                                                              |
|                                                 | 25 0                                                              | 165 0       | BLUE SH SOFT                                          |                                                       |                                                              |
| Comments                                        | DRY HOLE PLUGGED                                                  | MC680       |                                                       | risone on on the administrations                      | The same state of the same same same same same same same sam |

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| Reference Number                        | Driving directions to well              |                              |                                        | Date completed            |
|-----------------------------------------|-----------------------------------------|------------------------------|----------------------------------------|---------------------------|
| 221461                                  | E VINEGAR HILL RD 6MI F                 | rom Bedford Indiana 25       | 50S ? USE                              | Fn May 02 1969            |
| Owner-Contractor Well Owner             | <i>Name</i><br>HAROLD GUTHRIE           | Address<br>R R 6 BEDFORD IND |                                        | Telephone                 |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                   |                              |                                        |                           |
| Equipment Operator                      |                                         | License                      |                                        |                           |
| Construction Details                    |                                         |                              |                                        |                           |
| Well                                    | Use HOME                                | Drilling method CABLE TO     | OL Pump type                           |                           |
|                                         | Depth 220 0                             | Pump setting depth           | Water qualit                           | ty                        |
| Casing<br>Screen                        | Length<br>Length                        | Material<br>Material         | Diameter 6<br>Diameter S               |                           |
| Well Capacity Test                      | Type of test                            | Test rate gpm for hrs        | BailTest                               | rate 0 17 gpm for 1 0 hrs |
|                                         | Drawdown ft                             | Static water level 110       | 0 0 ft                                 |                           |
| Grouting Information                    | Material                                |                              | Depth from to                          |                           |
|                                         | Installation Method                     |                              | Number of bags used                    |                           |
| Well Abandonment                        | Sealing material<br>Installation Method |                              | Depth from to  Number of bags used     |                           |
| Administrative                          | County LAWRENCE                         |                              | Township 5N Rang                       |                           |
|                                         | Section SE 1/4 of the SE 1/4 of         | of the NW 1/4 of Section 33  |                                        | Topo map BEDFORD EAST     |
|                                         | Field located by DW                     |                              | on Thu Aug 13 19                       | 70                        |
|                                         | Courthouse location by                  |                              | on                                     |                           |
|                                         | Location accepted w/o verifice          | ation by                     | on                                     |                           |
|                                         | Subdivision name                        |                              | Lot number                             |                           |
|                                         | Ft W of EL                              | Ft N of SL                   | Ft E of W.L. 2300<br>Bedrock elevation | Ft S of VL 2500           |
|                                         | Ground elevation 6600                   | Depth to bedrock 280         | 632.0                                  | Aquifier elevation        |
|                                         | UTM Easting 550958 0                    |                              | UTM Northing 429                       | 7342 0                    |
| Well Log                                | Top Botton                              | n Formation                  |                                        |                           |
|                                         | 0 0 28 0                                | DIRT                         |                                        |                           |
|                                         | 28 0 105 0                              | LS HARD                      |                                        |                           |
|                                         | 105 0 220 0                             | BLUE SH SO                   | FT                                     |                           |
|                                         |                                         |                              |                                        |                           |

## 205

| Reference Number                                | Driving directions to well                |                                                       |                                      | Date completed        |  |
|-------------------------------------------------|-------------------------------------------|-------------------------------------------------------|--------------------------------------|-----------------------|--|
| 221471                                          | 4MI SE OF BEDFORD ON T                    | UNNELTON RD                                           | Wed, Feb 17, 1965                    |                       |  |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>HERB KINDER                | Address<br>R R. 5 BEDFORD IND.                        |                                      | Telephone             |  |
| Drilling Contractor                             | ERNIE UMPHRESS & SONS                     | BEDFORD IND. R R 6                                    |                                      |                       |  |
| Equipment Operator                              | EUGENE & CHARLES<br>UMPHRESS              | License:                                              |                                      |                       |  |
| Construction Details                            |                                           |                                                       |                                      |                       |  |
| Well                                            | Use: HOME                                 | Drilling method: CABLE TOOL                           | Pump type:                           |                       |  |
|                                                 | Depth: 89.0                               | Pump setting depth:                                   | Water qualii                         | =                     |  |
| Casing<br>Screen                                | Length: 44.75<br>Length:                  | Material:<br>Material:                                | Diameter: 6<br>Diameter: S           |                       |  |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft             | Test rate: gpm for hrs.  Static water level: 59 0 ft. |                                      | rate: 5 0 gpm for hrs |  |
| Grouting Information                            | Material:                                 | De                                                    | epth: from to                        |                       |  |
|                                                 | Installation Method:                      | Nı                                                    | umber of bags used.                  |                       |  |
| Well Abandonment                                | Sealing material:<br>Installation Method: |                                                       | epth: from to<br>umber of bags used: |                       |  |
| Administrative                                  | County: LAWRENCE                          |                                                       | Township: 5N Range                   | z: 1E                 |  |
|                                                 | Section: SE 1/4 of the SW 1/4             | of the NW 1/4 of Section 32                           |                                      | Topo map: BEDFORD EAS |  |
|                                                 | Field located by: JCH                     |                                                       | on: Mon, Aug 01, 19                  | 66                    |  |
|                                                 | Courthouse location by:                   |                                                       | on:                                  |                       |  |
|                                                 | Location accepted w/o verifica            | tion by:                                              | on:                                  |                       |  |
|                                                 | Subdivision name:                         |                                                       | Lot number:                          |                       |  |
|                                                 | Ft W of EL:                               | Ft N of SL:                                           | Ft E of WL: 700                      | Ft S of NL: 2000      |  |
|                                                 | Ground elevation: 730 0                   | Depth to bedrock: 40 0                                | <b>Bedrock</b> elevation: 690 0      | Aquifier elevation:   |  |
|                                                 | UTM Easting: 548870 0                     |                                                       | UTM Northing: 4297                   | 488 0                 |  |
| Well Log                                        | Top Bottom                                | Formation                                             |                                      |                       |  |
|                                                 | 0 0 28 0                                  | DIRT                                                  |                                      |                       |  |
|                                                 | 28 0 41 0                                 | BOULDERS & MU                                         | JD HOLES                             |                       |  |
|                                                 | 41 0 63 0                                 | BLUE LS HARD                                          |                                      |                       |  |
|                                                 | 63 0 89 0                                 | GRAY LS HARD                                          |                                      |                       |  |
| Comments                                        | MC690,                                    |                                                       |                                      |                       |  |



| Reference Number                                | Driving directions to well                            | e er b. 9. – dagt sigt der 🔔 ar als der Vertige - provider v                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 221476                                          | APPR 4MI SE OF BEDFOR                                 | D IND ON VINEGAR HILL RD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Tue, Feb 18, 1964                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>Ray e woodward                         | Address<br>PO BOX 472 BEDFORD IND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Telephone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Drilling Contractor  Equipment Operator         | ERNIE UMPHRESS & SONS<br>EUGENE & CHARLES<br>UMPHRESS | BEDFORD, IND R R 6 License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Construction Details                            |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Well                                            | Use: HOME                                             | Drilling method: CABLE TOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DL Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ****                                            | Depth: 200 0                                          | Pump setting depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quality:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Casing<br>Screen                                | Length: 25 0<br>Length:                               | Material: Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Diameter: 60 Diameter: Slot size:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft                         | Test rate gpm for hrs<br>Static water level: 55 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BailTest rate. 1 0 gpm for hrs ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Grouting Information                            | Material:<br>Installation Method                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Depth from to  Number of bags used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Well Abandonment                                | See ung material:<br>Ins al ation Method:             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Depth: from to  Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Administrative                                  | County: LAWRENCE<br>Section. SE 1/4 of the SW 1/4     | of the NW 1/4 of Section 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Township: 5N Range. 1E  Topo map BEDFORD EAST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                 | Field located by: JUH                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | on Mon Aug 01, 1966                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                 | Courthouse location by                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | on.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                 | Location accepted w/o verifica                        | ution by.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                 | Subdivision name:                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Lot number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                 | Ft W of EL:                                           | Ft N of SL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ft E of WL: 800 Ft S of NL: 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 | Ground elevation 725 0                                | Depth to bedrock: 20 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Bedrock elevation 705 0 Aquifier elevation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                 | UTM Easting: 548905 0                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UTM Northing, 4297430 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Well Log                                        | Top Bottom                                            | n Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 0 0 19 0                                              | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 19 0 74 0                                             | BLUE LS HAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                 | 74 0 127 0                                            | GRAY LS HAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                 | 127 0 183 0                                           | BLUE LS HAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                 | 183 0 200 0                                           | BLUE SH SOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Γ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Comments                                        | MC705,                                                | Direction and the same of the | • * otto * = promothidadesse provinciada alla descripción con con total de la contractica del la contractica del la contractica de la cont |

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Comments

#### Indiana Department of Natural Resources

Reference Number Driving directions to well Date completed APPR. 3MI SE OF BEDFORD, IND. ON TUNNELTON RD, NW CORNER OF TUNNELTON  $_{\hbox{\scriptsize Thu}}$  , Aug  $_{19}$  ,  $_{1965}$ 221481 RD, & VINEGAR HILL RD Telephone Owner-Contractor Name Address Well Owner EUGENE SPAULDING SPRINGVILLE, IND. R.R. 1 **Building Contractor** Drilling Contractor ERNIE UMPHRESS & SONS BEDFORD, IND. R.R. 6 **EUGENE & CHARLES** Equipment Operator License: **UMPHRESS** Construction Details Well Use: HOME Drilling method: CABLE TOOL Pump type: Depth: 136.0 Pump setting depth: Water quality: Length: 59.0 Material: Diameter: 6.0 Casing Screen Length: Material: Diameter: Slot size: Well Capacity Test Type of test: Test rate: gpm for hrs. BailTest rate: 5.0 gpm for hrs Drawdown: ft. Static water level: 90.0 ft. Material: Depth: from to Grouting Information Installation Method: Number of bags used: Well Abandonment Sealing material: Depth: from to Installation Method: Number of bags used: County: LAWRENCE Township: 5N Range: 1E Administrative Section: SE 1/4 of the SW 1/4 of the NW 1/4 of Section 32 Topo map: BEDFORD EAST Field located by: JCH on: Mon, Aug 31, 1966 Courthouse location by: on: Location accepted w/o verification by: on: Subdivision name: Lot number: Ft E of WL: 900 Ft S of NL: 2500 Ft W of EL: Ft N of SL: Bedrock elevation: Aquifier elevation: Ground elevation: 700 0 Depth to bedrock: 55 0 645 0 UTM Easting: 5489190 UTM Northing: 4297323 0 Top Bottom Formation Well Log 0 015.0 DIRT 150 540 **BOULDERS & MUD HOLES** 54.0 69.0 GRAY LS HARD 69.0 900 BLUE LS SOFT 90.0 1160 GRAY LS HARD 116.0 136.0 WH LS SOFT

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| Reference Number                        | Driving directions to well                        | t de review en e paper y gande 151 tille uit     | Commission of the  | na a de ser esta               | Date completed                 |
|-----------------------------------------|---------------------------------------------------|--------------------------------------------------|--------------------|--------------------------------|--------------------------------|
| 221486                                  | 4MI OUT ON THE L SIDE O                           | F TUNNERTOWN RD ON L S                           | IDE                |                                | Thu, Sep 15, 1960              |
| Owner-Contractor<br>Well Owner          | Name<br>STEPHEN E JONES                           | Address<br>ROUTE 5 BEDFORD IND                   |                    |                                | Telephone                      |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                             | D D & REDEODD IND                                |                    |                                |                                |
| Equipment Operator                      | ERNIE UMPHRESS & SONS                             |                                                  |                    |                                |                                |
|                                         |                                                   |                                                  |                    |                                |                                |
| Construction Details                    |                                                   |                                                  |                    |                                |                                |
| Well                                    | Use: HOME                                         | Drilling method: CABLE TO                        | OL                 | Pump type:                     |                                |
|                                         | Depth: 225 0                                      | Pump setting depth:                              |                    | Water quality                  |                                |
| Casing<br>Screen                        | Length: 34 0<br>Length:                           | Material:<br>Material:                           |                    | Diameter: 6 0<br>Diameter: Slo |                                |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft                     | Test rate: gpm for hrs<br>Static water level: ft |                    | BailTest ra                    | ue: 0 05 gpm for 1 0 hrs       |
| Grouting Information                    | Material:<br>Installation Method:                 |                                                  | Depth: from        |                                |                                |
| Well Abandonment                        | Sealing material:<br>Installation Method:         |                                                  | Depth: from        |                                |                                |
| Administrative                          | County: LAWRENCE<br>Section: SW 1/4 of the SE 1/4 | of the SW 1/4 of Section 32                      | Тон                | vnship: 5N Range:              | · 1E<br>Topo map. BEDFORD EAST |
|                                         | Field located by. S& H                            |                                                  | on:                | Fri, Nov 04, 1960              |                                |
|                                         | Courthouse location by:                           |                                                  | on:                |                                |                                |
|                                         | Location accepted w/o verifica                    | tion by:                                         | on:                |                                |                                |
|                                         | Subdivision name:                                 |                                                  | Lot                | number:                        |                                |
|                                         | Ft W of EL:                                       | Ft N of SL: 100                                  | Ft E               | E of WL: 1500                  | Ft S of NL.                    |
|                                         | Ground elevation: 670 0                           | Depth to bedrock: 20 0                           | <b>B</b> ed<br>650 | lrock elevation:<br>0          | Aquifier elevation             |
|                                         | UTM Easting: 549116 0                             |                                                  | UT                 | M Northing: 4296:              | 531 0                          |
|                                         | Tan                                               | Currentian                                       |                    |                                |                                |
| Well Log                                | Top         Bottom           0.0         20.0     | Formation DIRT                                   |                    |                                |                                |
|                                         | 20 0 30 0                                         | LS BOULDER                                       | 06 11 20           |                                |                                |
|                                         | 30 0 70 0                                         | BR LS SOFT                                       | (3 HAND            |                                |                                |
|                                         | 70.0                                              | BLUE LS HA                                       | DD.                |                                |                                |
|                                         |                                                   | BLUE SH SOI                                      |                    |                                |                                |
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|                                         | 85 0 110 0                                        | BLUE LS HA                                       |                    |                                |                                |
|                                         | 1100 1270                                         | WH LS HARE                                       |                    |                                |                                |
|                                         | 127 0 156 0                                       | BLUE LS HA                                       |                    |                                |                                |
|                                         | 156.0                                             | WH LS HARI                                       |                    |                                |                                |
|                                         | 168 0 190 0                                       | BLUE LS SOF                                      |                    |                                |                                |
|                                         | 190 0 225 ()                                      | BLUE SH SOI                                      | -1                 |                                |                                |
| Comments                                | MC650, FE-4 0PPM + \RONE<br>VERIFI YES.           | NS NOOFPM PH 8 0 CHLOUDE                         | E 15PPM, API       | PROXLOCATION                   | LOC ACCEPT - O                 |

209

| Reference Number                        | Driving directions to well                   | nager op Alleston get i til nik consenne sen den mass til til den den det til til                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 221491                                  | IST CROSS RD S OF VIRO<br>RD VINEGAR HILL RD | GIL GRISSIOM AIRPORT, TURN V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | W, APPR 5MI N/SIDE OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fn. 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| Owner-Contractor Well Owner             | Name<br>CHARLES E MAICK                      | Address<br>BEDFORD IND R R 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SON                         | S BEDFORDIND RR 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Equipment Operator                      | EUGENE & CHARLES<br>UMPHRESS                 | License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Construction Details                    |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Well                                    | Use: HOME                                    | Drilling method: CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|                                         | Depth: 113 0                                 | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Casing<br>Screen                        | Length: 29 0<br>Length:                      | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Well Capacity Test                      | Type of test<br>Drawdown: ft                 | Test rate: gpm for hrs<br>Static water level: 50 0 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Grouting Information                    | Material:<br>Installation Method             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|                                         | Ft W of EL: 2000                             | Ft N of SL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Comments                                | MC645 VERIFIED BY OWN                        | NER. MC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | of them the state of the state | and a substitution of the second of the seco |

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| 221496                                   | APPR. 3MI S OF BEDFORD                    | IND. IN S I STREET TO VINE                        | GAR HILL RD, APPR 1MI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wed, Mar 30, 1966       |
| Owner-Contractor Well Owner              | <i>Name</i><br>GLENN EDWARDS              | Address<br>R.R. 5 BEDFORD                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Telephone               |
| Building Contractor  Drilling Contractor | ERNIE UMPHRESS & SONS                     | BEDFORD, IND. R R. 6                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| Equipment Operator                       | EUGENE & CHARLES<br>UMPHRESS              | License:                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| Construction Details                     |                                           |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| Well                                     | Use: HOME                                 | Drilling method: CABLE TO                         | OL Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |
|                                          | Depth: 150.0                              | Pump setting depth:                               | Water qualit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |
| Casing<br>Screen                         | Length: 24.0<br>Length:                   | Material:<br>Material:                            | Diameter: 6.<br>Diameter: Sl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |
| Well Capacity Test                       | Type of test:<br>Drawdown: ft.            | Test rate: gpm for hrs<br>Static water level: 110 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | rate: 0 07 gpm for hrs. |
| Grouting Information                     | Material:<br>Installation Method:         |                                                   | Depth: from to Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
| Well Abandonment                         | Sealing material:<br>Installation Method: |                                                   | Depth: from to Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
| Administrative                           | County: LAWRENCE                          | 6.h. NW 1/4 6.6                                   | Township: 5N Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |
|                                          | Section: SE 1/4 of the SE 1/4             | of the NW 1/4 of Section 31                       | 14 1 0: 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Topo map: BEDFORD EAST  |
|                                          | Field located by: JUH                     |                                                   | on: Mon, Aug 01, 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 00                      |
|                                          | Courthouse location by:                   |                                                   | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
|                                          | Location accepted w/o verific             | ation by:                                         | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
|                                          | Subdivision name:                         |                                                   | Lot number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |
|                                          | Ft W of EL: 3200                          | Ft N of SL:                                       | Ft E of WL:<br>Bedrock elevation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ft S of NL: 2500        |
|                                          | Ground elevation: 680 0                   | Depth to bedrock: 20.0                            | 660 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Aquifier elevation:     |
|                                          | UTM Easting: 547687 0                     |                                                   | UTM Northing: 4297                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7344 0                  |
| Well Log                                 | Top Botton                                | n Formation                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
|                                          | 0 0 16 0                                  | DIRT                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
|                                          | 16 0 19 0                                 | LS BOULDER                                        | tS .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |
|                                          | 19 0 28 0                                 | BLUE LS BO                                        | JLDERS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |
|                                          | 28 0 45 0                                 | GRAY LS BO                                        | ULDERS SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |
|                                          | 45 0 79 0                                 | WH LS BOUL                                        | DERSSOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
|                                          | ~9 0 93 0                                 | BLUE LS BO                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
|                                          | 93 () 126 0                               | 0 WH LS BOULDERS HARD                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
|                                          | 126 0 150 0                               | GRAY LS BO                                        | ULDERS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |
| Comments                                 | NC 660.                                   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |

# 211

| Reference Number                        | Driving directions to                           | well             | one one addresses to a superior                        | and of the dig training the last the name of the same | Date completed         |
|-----------------------------------------|-------------------------------------------------|------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 221501                                  | S AND SLIGHTLY E FROM BEDFORD ON VINEGAR HILL R |                  |                                                        | )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sat, Mar 13, 1965      |
| Owner-Contractor<br>Well Owner          | <i>Name</i><br>WALTER CRAWFOR                   | Addre<br>D RR 5  | ss<br>BEDFORD IND                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Telephone              |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS &                                | SONS RR 6        | BEDFORD, IND                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
| Equipment Operator                      | EUGENE & CHARLE<br>UMPHRESS                     |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
| Construction Details                    |                                                 |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
| Well                                    | Use: HOME                                       |                  | ng method: CABLE TOOL                                  | Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |
|                                         | Depth: 200 0                                    |                  | setting depth:                                         | Water quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |
| Casing<br>Screen                        | Length: 26 0<br>Length:                         | Mater<br>Mater   |                                                        | Diameter: 6 (<br>Diameter: Sl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft                   |                  | Test rate: gpm for hrs<br>Static water level: 107 0 ft | BailTest r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ate: 0 13 gpm for hrs  |
| Grouting Information                    | Material:<br>Installation Method:               |                  |                                                        | th: from to nber of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Well Abandonment                        | Sealing material:<br>Installation Method:       |                  | -                                                      | th: from to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |
| Administrative                          | County: LAWRENCE                                |                  |                                                        | Township · 5N Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | : 1E                   |
|                                         | Section: NW 1/4 of the                          | NE 1/4 of the S  | W 1/4 of Section 31                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Topo map: BEDFORD EAST |
|                                         | Field located by: JCH                           |                  |                                                        | on: Mon, Aug 01, 196                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 66                     |
|                                         | Courthouse location by                          |                  |                                                        | on·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |
|                                         | Location accepted w/o                           | verification by: |                                                        | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |
|                                         | Subdivision name:                               |                  |                                                        | Lot number.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |
|                                         | Ft W of EL:                                     |                  | N of SL: 2300                                          | Ft E of WL : 2700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ft S of NL:            |
|                                         | Ground elevation: 680                           | 0 <b>D</b> e     | pth to bedrock: 20 0                                   | Bedrock elevation<br>660 ()                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Aquifier elevation     |
|                                         | UTM Easting, 547582                             | 0                |                                                        | UTM Northing 4297                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 214 0                  |
| Well Log                                | Гор                                             | Bottom           | Formation                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
|                                         | 0.0                                             | 20 0             | DIRT                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
|                                         | 20 0                                            | 26 0             | GRAY LS HARD                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
|                                         | 26.0                                            | 54 0             | BLUE LS SOFT                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
|                                         | 54.0                                            | 71 0             | BR LS SOFT                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
|                                         | 71.0                                            | 94 0             | BLUE LS HARD                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
|                                         | 94 0                                            | 100 0            | BLUE SH SOFT                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
|                                         | 100 0                                           | 1120             | WH LS HARD                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
|                                         | 112.0                                           | 175 0            | BLUE LS HARD                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
|                                         | 175.0                                           | 200 0            | BLUE SH SOFT                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
| Comments                                | MC 660                                          |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |

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| Reference Number                        | Driving directions to well                   | ander ty. An et. under te aphabe paral | Date completed                            |  |  |
|-----------------------------------------|----------------------------------------------|----------------------------------------|-------------------------------------------|--|--|
| 221506                                  | 80 IN FROM N COUNTY LII<br>LITTLE W          | NE 80 FROM E BOUNDRY JUST S            | OF COUNTY HOUSE & A Thu Nov 05 1959       |  |  |
| Owner Contractor<br>Well Owner          | <i>Name</i><br>HAROLD LESLIE MOORE           | Address<br>R R #5 BEDFORD IND          | Telephone                                 |  |  |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                        | LEATHFRWOOD RD BEDFORD                 | IND RR 6 BOX 13                           |  |  |
| Equipment Operator                      | ERNIE UMPHRESS & SONS                        |                                        |                                           |  |  |
| Construction Details                    |                                              |                                        |                                           |  |  |
| Well                                    | Use HOME                                     | Drilling method CABLE TOOL             | Pump type                                 |  |  |
|                                         | Depth 95 0                                   | Pump setting depth                     | Water quality                             |  |  |
| Casing<br>Screen                        | Length 210<br>Length                         | Material<br>Material                   | Diameter 60<br>Diameter Slot size         |  |  |
| Well Capacity Test                      | Type of test                                 | Test rate gpm for hrs                  | BailTest rate 4 0 gpm for 1 0 hrs         |  |  |
|                                         | Drawdown ft                                  | Static water level 22 0 ft             |                                           |  |  |
| Grouting Information                    | Material                                     | Dep                                    | th from to                                |  |  |
|                                         | Installation Method                          | Nur                                    | nber of bags used                         |  |  |
| Well Abandonment                        | Sealing material<br>Installation Method      |                                        | th from to  mber of bags used             |  |  |
| Administrative                          | County LAWRFNCE Section NW 1/4 of the NW 1/4 | 4 of the NE 1/4 of Section 31          | Township 5N Range 1E  Topo map BEDFORD EA |  |  |
|                                         | Field located by BARNES                      |                                        | on Fr. Jul 01 1960                        |  |  |
|                                         | Courthouse location by                       |                                        | on                                        |  |  |
|                                         | Location accepted w/o verifica               | tion by                                | on                                        |  |  |
|                                         | Subdivision name                             |                                        | Lot number                                |  |  |
|                                         | Ft W of EL 2450                              | Ft N of SL                             | Ft F of WI Ft S of NL 50                  |  |  |
|                                         | Ground elevation 700 0                       | Depth to bedrock 160                   | Bedrock elevation Aquifier elevation      |  |  |
|                                         | UTM Easting 547904 0                         |                                        | LTM Northing 4298083 0                    |  |  |
| Well Log                                | Гор Bottom                                   | Formation                              |                                           |  |  |
| -                                       | 00 160                                       | DIRT                                   |                                           |  |  |
|                                         | 16 0 60 0                                    | BLUFISHARD                             |                                           |  |  |
|                                         |                                              |                                        |                                           |  |  |
|                                         | 60 0 75 0                                    | GRAYISSOFT                             |                                           |  |  |

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# 213

| Reference Number                                | Driving directions to well         | . parte man caprage and the se                  | to the time of the time and       | Date completed           |
|-------------------------------------------------|------------------------------------|-------------------------------------------------|-----------------------------------|--------------------------|
| 221511                                          | FROM BEDFORD GO E TO               | TUNNELTON RD PASS BRO<br>RD TURN R 3RD HOUSE OF |                                   | Fn Aug 21 1959           |
| Owner Contractor Well Owner Building Contractor | <i>Name</i><br>WARREN & SUE RAINEY | Address<br>R 5 BEDFORD                          |                                   | Telephone                |
| Drilling Contractor                             | ERNIE UMPHRESS & SONS              | RR 6 BOX 13 BEDFORD IN                          | N                                 |                          |
| Equipment Operator                              | BUCYRUS ERIC                       | License                                         |                                   |                          |
| Construction Details                            |                                    |                                                 |                                   |                          |
| Well                                            | Use HOME                           | Drilling method CABLE TO                        | OL. Pump type                     |                          |
|                                                 | Depth 108 0                        | Pump setting depth                              | Water quality                     | ,                        |
| Casing<br>Screen                                | Length 28 5<br>Length              | Material<br>Material                            | Diameter 60<br>Diameter Slo       |                          |
| Well Capacity Test                              | Type of test                       | Test rate gpm for hrs                           | BailTest ro                       | ate 0 06 gpm for 1 0 hrs |
|                                                 | Drawdown ft                        | Static water level 38                           | 0 ft                              |                          |
| Grouting Information                            | Material                           |                                                 | Depth from to                     |                          |
|                                                 | Installation Method                |                                                 | Number of bags used               |                          |
| Well Abandonment                                | Sealing material                   |                                                 | Depth from to                     |                          |
|                                                 | Installation Method                |                                                 | Number of bags used               |                          |
| Administrative                                  | County LAWRENCE                    |                                                 | Township SN Range                 | IE                       |
|                                                 | Section NE 1/4 of the NE 1/4       | of the NW 1/4 of Section 31                     |                                   | Topo map BEDFORD EAST    |
|                                                 | Field located by BARNES            |                                                 | on Fr Jul 01 1960                 |                          |
|                                                 | Courthouse location by             |                                                 | on                                |                          |
|                                                 | Location accepted w/o verifice     | ation by                                        | оп                                |                          |
|                                                 | Subdivision name                   |                                                 | Lot number                        |                          |
|                                                 | Ft W of EL 3250                    | Ft N of SI                                      | Ft E of WL                        | Ft S of NL. 50           |
|                                                 | Ground elevation 700 0             | Depth to bedrock 250                            | <b>Bedrock elevation</b><br>675 0 | Aquifier elevation       |
|                                                 | UTM Easting 547627 0               |                                                 | UTM Northing 4298                 | 094 0                    |
| Well I og                                       | Top Botton                         | n Formation                                     |                                   |                          |
|                                                 | 00 00                              | BLANK                                           |                                   |                          |
| Comments                                        | MC675 OWNER NOT HOME               | 5<br>***                                        | ar .                              | 19 196 MA P & EMP 127    |

## 214

| Reference Number                        | Driving directions to w                                   | ell         |                                                       | tion from the season of the season in season i | Date completed         |
|-----------------------------------------|-----------------------------------------------------------|-------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 221516                                  | 4MI SE OF BEDFORD                                         | ON VINEG    | AR HILL RD                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sat, Mar 24, 1962      |
| Owner-Contractor<br>Well Owner          | Name<br>JAMES W EDWARDS                                   | Add<br>SRR. | ress<br>5 BEDFORD IND                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Telephone              |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS &                                          | SONS BED    | DFORD IND R R. 6                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Equipment Operator                      | ERNIE UMPHRESS &                                          |             |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Construction Details                    |                                                           |             |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Well                                    | Use: HOME                                                 |             | ling method: CABLE TOOL                               | Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |
| Casing<br>Screen                        | Depth: 200 0<br>Length: 21.5<br>Length:                   | Mate        | p setting depth:<br>erial:<br>erial:                  | Water quality<br>Diameter: 6 (<br>Diameter: Slo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | )                      |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft                             |             | Test rate: gpm for hrs.  Static water level: 100 0 ft | BailTest ro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ate: 0 18 gpm for hrs  |
| Grouting Information                    | Material:<br>Installation Method:                         |             | •                                                     | th: from to nber of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |
| Well Abandonment                        | Sealing material:<br>Installation Method:                 |             |                                                       | th: from to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |
| Administrative                          | County: LAWRENCE                                          |             |                                                       | Township: 5N Range:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | · 1E                   |
|                                         | Section: SE 1/4 of the SE 1/4 of the NW 1/4 of Section 31 |             |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Topo map: BEDFORD EAST |
|                                         | Field located by: JUH                                     |             |                                                       | on: Mon, Aug 01, 196                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                      |
|                                         | Courthouse location by:                                   |             |                                                       | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|                                         | Location accepted w/o verification by: Subdivision name:  |             |                                                       | on:<br>Lot number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |
|                                         | Ft W of EL: 3300                                          | į           | Ft N of SL:                                           | Ft E of WL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ft S of NL: 2500       |
|                                         | Ground elevation: 680 (                                   |             | Depth to bedrock: 20 0                                | Bedrock elevation:<br>660 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Aquifier elevation:    |
|                                         | UTM Easting: 547653 (                                     | )           |                                                       | UTM Northing: 42973                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 345 0                  |
| Well Log                                | Top                                                       | Bottom      | Formation                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
|                                         | 0 0                                                       | 18 ()       | DIRT                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
|                                         | 180                                                       | 14 -)       | BLUE LS HARD                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
|                                         | 44 0                                                      | با 1ج       | BR LS SOFT                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
|                                         | 63 0                                                      | 75 ()       | WH LS HARD                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
|                                         | 75 0                                                      | )] ()       | BLUE LS HARD                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
|                                         | 910                                                       | 34.0        | GRAY LS HARD                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
|                                         | 134 0                                                     | 6 > 0       | BLUE LS HARD                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
|                                         | 165 0                                                     | 21 m = 1    | BLUE SH SOFT                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Comments                                | MC660.                                                    |             |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |

#### Indiana Department of Natural Resources

| Reference Number                                                    | Driving directions to well              | all advantages where the property of the first time in the second of the s | FARE ME MANAGES HE BEES        | Date completed         |
|---------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------|
| 221521                                                              | APPR 3 BLOCKS W OF POC                  | OR FARM ON POOR FARM RI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D, S/SIDE OF RD                | Thu, Jun 02, 1966      |
| Owner-Contractor Well Owner Building Contractor Drilling Contractor | Name DAVID L TIDD ERNIE UMPHRESS & SONS | Address BEDFORD IND R R 5 BEDFORD IND R R 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Telephone              |
| Equipment Operator                                                  | EUGENE & CHARLES UMPHRESS               | License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |                        |
| Construction Details                                                |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                        |
| Well                                                                | Use: HOME                               | Drilling method: CABLE TOO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | OL. Pump type:                 |                        |
|                                                                     | Depth: 103 0                            | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quality:                 |                        |
| Casing<br>Screen                                                    | Length: 32 0<br>Length:                 | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter: 60<br>Diameter: Slot | : size:                |
| Well Capacity Test                                                  | Type of test:                           | Test rate: gpm for hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BailTest rai                   | te: 1 3 gpm for hrs    |
|                                                                     | Drawdown: ft                            | Static water level: 40 (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ) ft                           |                        |
| Grouting Information                                                | Material:                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to                 |                        |
|                                                                     | Installation Method:                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used:           |                        |
| Well Abandonment                                                    | Sealing material:                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to                 |                        |
|                                                                     | Installation Method:                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number o, bcgs used:           |                        |
| Administrative                                                      | County: LAWRENCE                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township: 5N Range:            | 1E                     |
|                                                                     | Section: NE 1/4 of the NE 1/4 of        | of the NW 1/4 of Section 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Topo map: BEDFORD EAST |
|                                                                     | Field located by: DW                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on: Mon, Aug 16, 1971          | 1                      |
|                                                                     | •                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                        |

Courthouse location by: on:

Location accepted w/o verification by. on:

Subdivision name: Lot number:

Ft W of EL: Ft N of SL: Ft E of WL: 3050 Ft S of NL 50 Bedrock elevation.

Depth to bedrock: 26 0 Aquifier elevation Ground elevation 695 0 669 0

LIM Easting: 547684 0 UTM Northing: 4298095 0

Well Log Top Bottom Formation 0.0 DIRT 26.0 24 0 BOULDERS 47.0 GRAY LS HARD 26.0 **47** 0 720 **BLUELS HARD** 720 940 WH LS HARD 103.0 GRAY LS HARD 94 11 CommentsMC675 MC

http://www.state.in.us/s\_ry/dnr\_waterwell?refNo=221521&\_from=SUMMARY&\_action=De\_ails\_3/2/01



#### Indiana Department of Natural Resources

| Reference Number 221526                         | Driving directions to w<br>5MI W OF OLD VINE<br>ABOUT 4MI SE OF BI<br>CROSSROADS | Date completed  Mon, May 16, 1960 |                            |                                       |                     |
|-------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------|----------------------------|---------------------------------------|---------------------|
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>FAY JOHNSON                                                       | <i>Addr</i><br>R R                | ess<br>#5 BEDFORD          |                                       | Telephone           |
| Drilling Contractor Equipment Operator          | WINFRED PHILLIPS WINFRED PHILLIPS                                                | R R.<br>Licen                     | #5 BEDFORD IND             |                                       |                     |
|                                                 |                                                                                  |                                   |                            |                                       |                     |
| Construction Details                            |                                                                                  |                                   |                            |                                       |                     |
| Well                                            | Use: HOME                                                                        |                                   | ng method: CABLE TOOL      | •                                     |                     |
| Casing                                          | Depth: 85 0<br>Length: 18 0                                                      | Pump<br>Matei                     | setting depth              | Water qualit<br>Diameter: 5           |                     |
| Screen                                          | Length:                                                                          | Matei                             |                            | Diameter: Si                          |                     |
| Well Capacity Test                              | Type of test: Test rate: gpm for hrs                                             |                                   | BailTest i                 | rate: 2 0 gpm for 1 0 hrs             |                     |
|                                                 | Drawdown: ft                                                                     |                                   | Static water level: 9 0 ft |                                       |                     |
| Grouting Information                            | Material:                                                                        |                                   |                            | epth: from to                         |                     |
|                                                 | Installation Method:                                                             |                                   | N                          | umber of bags used:                   |                     |
| Well Abandonment                                | Sealing material:<br>Installation Method:                                        |                                   |                            | epth: from to<br>lumber of bags used: |                     |
| Administrative                                  | County: LAWRENCE                                                                 |                                   |                            | Township: 5N Range                    | v 1E                |
|                                                 | Section: SE 1/4 of the S'                                                        | NE 1/4 of Section 31              |                            | Topo map: BEDFORD EAST                |                     |
|                                                 | Field located by: BARN                                                           | ES                                |                            | on Fri, Jul 01, 1960                  |                     |
|                                                 | Courthouse location by:                                                          |                                   |                            | on                                    |                     |
|                                                 | Location accepted w/o verification by                                            |                                   |                            | on                                    |                     |
|                                                 | Subdivision name:                                                                |                                   |                            | Lot number:                           |                     |
|                                                 | Ft W of EL: 1300                                                                 | F                                 | t N of SL: 50              | Ft E of WL:                           | Ft S of NL          |
|                                                 | Ground elevation: 670 0                                                          | D                                 | epth to bedrock: 120       | Bedrock elevation.<br>658 0           | Aquifier elevation: |
|                                                 | ULM Easting: 548254 0                                                            |                                   |                            | UTM Northing 4297                     | 327 0               |
| Well Log                                        | 1op E                                                                            | ottom                             | Formation                  |                                       |                     |
|                                                 | 0.0                                                                              | 2 0                               | CLAY                       |                                       |                     |
|                                                 | ' () 1                                                                           | 5 0                               | LIME                       |                                       |                     |
|                                                 | 5 17                                                                             | 6 0                               | MUD SEAM                   |                                       |                     |
|                                                 | (1)                                                                              | 5 0                               | BLUE LIME                  |                                       |                     |
|                                                 | 6                                                                                | 5 0                               | BR LIME                    |                                       |                     |
|                                                 |                                                                                  | 5 0                               | BLUE LIME                  |                                       |                     |

Comments VIC 955, LOC ACCEPTED W/O VERIF YES.

21

| Reference Number                                | Driving directions to well                    |                             | Date completed                         |         |
|-------------------------------------------------|-----------------------------------------------|-----------------------------|----------------------------------------|---------|
| 217965                                          | NEAR INTERSECTOIN OF<br>SOUTH OF POOR FARM RI |                             | 1                                      |         |
| Owner-Contractor Well Owner Building Contractor | Name<br>ALBERT E WHITNER                      | Address<br>RR 5, BEDFORD IN | Telephone                              |         |
| Drilling Contractor                             | ERNIE UMPHRESS & SONS                         | RR 6, BOX 13, BEDFORD IN    |                                        |         |
| Equipment Operator                              | ERNIE UMPHRESS & SONS                         | S License:                  |                                        |         |
| Construction Details                            |                                               |                             |                                        |         |
| Well                                            | Use: HOME                                     | Drilling method: CABLE TO   | OL Pump type:                          |         |
|                                                 | Depth: 250.0                                  | Pump setting depth:         | Water quality:                         |         |
| Casing<br>Screen                                | Length:<br>Length:                            | Material:<br>Material:      | Diameter:<br>Diameter: Slot size:      |         |
| Well Capacity Test                              | Type of test:                                 | Test rate: gpm for hrs      | BailTest rate: 0 05 gpm for hrs        | š.      |
|                                                 | Drawdown: ft.                                 | Static water level: 150     | 0 ft.                                  |         |
| Grouting Information                            | Material:                                     |                             | Depth: from to                         |         |
|                                                 | Installation Method:                          |                             | Number of bags used:                   |         |
| Well Abandonment                                | Sealing material:                             |                             | Depth: from to                         |         |
|                                                 | Installation Method:                          |                             | Number of bags used:                   |         |
| Administrative                                  | County: LAWRENCE                              |                             | Township: 5N Range: 1E                 |         |
|                                                 | Section: SE 1/4 of the SW 1/4                 | of the SW 1/4 of Section 29 | Topo map: BEDFO                        | RD EAST |
|                                                 | Field located by: JVH                         |                             | on: Mon, Aug 01, 1966                  |         |
|                                                 | Courthouse location by:                       |                             | on:                                    |         |
|                                                 | Location accepted w/o verification            | ation by:                   | on:                                    |         |
|                                                 | Subdivision name:                             |                             | Lot number.                            |         |
|                                                 | Ft W of EL:                                   | Ft N of SL: 600             | Ft E of WL 1200 Ft S of NL:            |         |
|                                                 | Ground elevation: 735 0                       | Depth to bedrock:           | Bedrock elevation: Aquifier elevation: |         |
|                                                 | UTM Easting:                                  |                             | UTM Northing                           |         |
| Well Log                                        | Top Botton                                    | n Formation                 |                                        |         |
|                                                 | 00 00                                         | BLANK                       |                                        |         |
|                                                 |                                               |                             |                                        |         |

| Reference Number                                | Driving directions to wel                                                        | īī · · · ·             | FLINI (MARKA) N. J. M. | yang distribute antifestion on the a | Date completed     |  |
|-------------------------------------------------|----------------------------------------------------------------------------------|------------------------|------------------------------------------------------------|--------------------------------------|--------------------|--|
| 217970                                          | NEAR INTERSECTION OF POOR FARM & TUNTILTON RD                                    |                        |                                                            |                                      | Thu, Dec 07, 1961  |  |
| Owner-Contractor Well Owner Building Contractor | Name<br>ALBERT E WHITNER                                                         | Address<br>RR 5 BE     | DFORD IND.                                                 |                                      | Telephone          |  |
| Drilling Contractor                             | ERNIE UMPHRESS & S                                                               | ONS RR 6 BEI           | OFORD IND.                                                 |                                      |                    |  |
| Equipment Operator                              | ERNIE UMPHRESS & S                                                               | ONS License            |                                                            |                                      |                    |  |
| Construction Details                            |                                                                                  |                        |                                                            |                                      |                    |  |
| Well                                            | Use: HOME                                                                        | Drilling m             | ethod: CABLE TOOL                                          | Pump type:                           |                    |  |
|                                                 | Depth: 144 0                                                                     | Pump setti             | ng depth:                                                  | Water qualit                         | y:                 |  |
| Casing<br>Screen                                | Length:<br>Length:                                                               | Material:<br>Material: |                                                            | Diameter:<br>Diameter: Sl            | ot size:           |  |
| Well Capacity Test                              | Type of test:                                                                    | Tes                    | t rate: gpm for hrs                                        | BailTest r                           | rate: gpm for hrs  |  |
|                                                 | Drawdown: ft                                                                     | Sta                    | tic water level: ft                                        |                                      |                    |  |
| Grouting Information                            | Material:                                                                        |                        | Dep                                                        | oth: from to                         |                    |  |
|                                                 | Installation Method:                                                             |                        | Nun                                                        | nber of bags used:                   |                    |  |
| Well Abandonment                                | Sealing material:<br>Installation Method:                                        |                        | <u>-</u>                                                   | th: from to mber of bags used:       |                    |  |
| Administrative                                  | County: LAWRENCE                                                                 |                        |                                                            | Township: 5N Range                   |                    |  |
|                                                 | Section: SE 1/4 of the SW 1/4 of the SW 1/4 of Section 29  Topo map: BEDFORD EAS |                        |                                                            |                                      |                    |  |
|                                                 | Field located by: JCH                                                            |                        |                                                            | on: Mon, Aug 01, 196                 | 56                 |  |
|                                                 | Courthouse location by:  Location accepted w/o verification by:                  |                        |                                                            | on:                                  |                    |  |
|                                                 | Subdivision name:                                                                |                        |                                                            | Lot number:                          |                    |  |
|                                                 | Ft W of EL:                                                                      | Ft N oj                | FSL: 600                                                   | Ft E of WL: 1200                     | Ft S of VL:        |  |
|                                                 | Ground elevation: 735 0                                                          | Depth                  | to bedrock: 25 0                                           | Bedrock elevation:<br>710 0          | Aquifier elevation |  |
|                                                 | UTM Easting: 548999 0                                                            |                        |                                                            | UTM Northing: 4298                   | 280 0              |  |
| Well Log                                        | Тор Во                                                                           | ottom                  | Formation                                                  |                                      |                    |  |
|                                                 | 0 0 25                                                                           | 0                      | DIRT                                                       |                                      |                    |  |
|                                                 | 25 0 65                                                                          | ()                     | BLUE LS HARD                                               |                                      |                    |  |
|                                                 | 65 0                                                                             | 2.0                    | BR LS SOFT                                                 |                                      |                    |  |
|                                                 | 102 0                                                                            | 4 ()                   | SH LS HARD                                                 |                                      |                    |  |
| Comments                                        | MC710, NO GOOD DRY                                                               | HOI FPage 9604         |                                                            |                                      |                    |  |

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219

| Reference Number                        | Driving directions to well                | en i beneffensk line Leis et 1800 i oppen bet.    | . I was herebile wed are to us to us | Date completed            |
|-----------------------------------------|-------------------------------------------|---------------------------------------------------|--------------------------------------|---------------------------|
| 217975                                  | 1ST ROAD NORTH GOOSE                      | TOWN SCHOOL 1/4 MILE NO                           | RTH PINHOOK ROAD                     | Tue, Oct 11, 1960         |
| Owner-Contractor Well Owner             | <i>Name</i><br>GEORGE BARNETT             | Address<br>R 5, BEDFORD IN                        |                                      | Telephone                 |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                     | RR 6, BOX 13, BEDFORD IN                          | i                                    |                           |
| Equipment Operator                      | ERNIE UMPHRESS & SONS                     | License                                           |                                      |                           |
| Construction Details                    |                                           |                                                   |                                      |                           |
| Well                                    | Use: HOME                                 | Drilling method: CABLE TO                         | OL Pump type:                        |                           |
|                                         | Depth: 150.0                              | Pump setting depth:                               | Water quality                        | y:                        |
| Casing<br>Screen                        | Length: 5.75<br>Length:                   | Material:<br>Material:                            | Diameter: 60<br>Diameter: Sl         |                           |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft             | Test rate: gpm for hrs<br>Static water level: 50. |                                      | ate: 0.13 gpm for 1 0 hrs |
| Grouting Information                    | Material:<br>Installation Method:         |                                                   | Depth: from to Number of bags used:  |                           |
| Well Abandonment                        | Sealing material:<br>Installation Method: |                                                   | Depth: from to Number of bags used:  |                           |
| Administrative                          | County: LAWRENCE                          |                                                   | Township: 5N Range                   | :: 1E                     |
|                                         | Section: NW 1/4 of the NW 1/              | 4 of the NW 1/4 of Section 29                     |                                      | Topo map: BEDFORD EAST    |
|                                         | Field located by: S&H                     |                                                   | on: Thu, Nov 03, 196                 | 0                         |
|                                         | Courthouse location by:                   |                                                   | on:                                  |                           |
|                                         | Location accepted w/o verifica            | uion by:                                          | on:                                  |                           |
|                                         | Subdivision name:                         |                                                   | Lot number:                          |                           |
|                                         | Ft W of EL: 25                            | Ft N of SL: 200                                   | Ft E of WL:                          | Ft S of NL:               |
|                                         | Ground elevation: 650 0                   | Depth to bedrock: 40                              | Bedrock elevation:<br>646 0          | Aquifier elevation        |
|                                         | UTM Easting: 550171 0                     |                                                   | UTM Northing: 4299                   | 669 ()                    |
| Well Log                                | Top Bottom                                | n Formation                                       |                                      |                           |
|                                         | 0.0                                       | BLANK                                             |                                      |                           |
| Comments                                | MC645, OFFICE CHEM. FF                    | 5 PPM, HARDNESS - 410 PPM                         | M: PH - 7 5, CHLORIDE -11 PF         | PM                        |

## 220

| Reference Number                       | Driving directions to well                      | hiya Madiriya u Gradd ah yaa, Adan saadaan aya     | Hilling to the said High-Program and Miller cap 1988-16. | Date completed        |
|----------------------------------------|-------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-----------------------|
| 217980                                 | ON TUNTELTON & BEDFO                            | Fri Nov 04 1960                                    |                                                          |                       |
| Owner-Contractor                       | Name                                            | Address                                            |                                                          | Telephone             |
| Well Owner                             | ERNEST G BARBARA S<br>SPEER                     | BEDFORD IND                                        |                                                          |                       |
| Building Contractor                    | CONTENTINO DE CONTE                             | D D ( DOV 12 DEDEODD                               |                                                          |                       |
| Drilling Contractor Equipment Operator | ERNIE UMPHRESS & SONS<br>ERNIE UMPHRESS & SONS  |                                                    |                                                          |                       |
| Construction Details                   |                                                 |                                                    |                                                          |                       |
| Well                                   | Use HOME                                        | Drilling method CABLE TOOL                         | Pump type                                                |                       |
|                                        | Depth 1300                                      | Pump setting depth                                 | Water quality                                            |                       |
| Casing<br>Screen                       | Length 31 3<br>Length                           | Material<br>Material                               | Diameter 60<br>Diameter Slo                              |                       |
| Well Capacity Test                     | Type of test<br>Drawdown ft                     | Test rate gpm for hrs<br>Static water level 850 ft | BailTest ra                                              | nte 10 gpm for 10 hrs |
| Grouting Information                   | Material                                        | Dej                                                | <i>pth</i> from to                                       |                       |
|                                        | Installation Method                             | Nu                                                 | mber of bags used                                        |                       |
| Well Abandonment                       | Sealing material                                | -                                                  | pth from to                                              |                       |
|                                        | Installation Method                             | Nu                                                 | mber of bags used                                        |                       |
| Administrative                         | County LAWRENCE                                 | - F. J F. W. 1. J F. C J 20                        | Township 5N Range                                        |                       |
|                                        | Section NW 1/4 of the SE 1/4                    | of the SW 1/4 of Section 29                        | <b>M</b> . 01 104                                        | Topo map BEDFORD EAST |
|                                        | Field located by JUH                            |                                                    | on Mon Aug 01 196                                        | 6                     |
|                                        | Courthouse location by                          | toon by                                            | on                                                       |                       |
|                                        | Location accepted w/o verifica Subdivision name | non vy                                             | on<br>Lot number                                         |                       |
|                                        | Ft W of FL                                      | Ft N of SL 1200                                    |                                                          | Ft S of NL            |
|                                        | Ground elevation 725 0                          | Depth to bedrock 200                               | Ft E of WL. 1400<br>Bedrock elevation<br>705 0           | \quifier elevation    |
|                                        | UTM Fasting 749048 0                            |                                                    | UTM Northing 42984                                       | , -                   |
| Well Log                               | Top Bottom                                      | Formation                                          |                                                          |                       |
| -                                      | 00 200                                          | DIR ſ                                              |                                                          |                       |
|                                        | 20 0 28 0                                       | LS BOULDERS                                        |                                                          |                       |
|                                        | 28 0 100 0                                      | WH LS HARD                                         |                                                          |                       |
|                                        | 1000                                            | GRAY LS SOFT                                       |                                                          |                       |
| Comments                               | MC7th                                           |                                                    |                                                          |                       |

221

| Reference Number                         | Driving directions to well                   | ne ne a destruée — le peut d'An laigh           | to the position decorate and .       | Date completed            |
|------------------------------------------|----------------------------------------------|-------------------------------------------------|--------------------------------------|---------------------------|
| 217985                                   | ON AIRPORT & POOR FAR                        | RM RD                                           |                                      | Sat Apr 23 1960           |
| Owner-Contractor Well Owner              | <i>Name</i><br>CARL CASIDY                   | Address<br>R R 5 BEDFORD IND                    |                                      | Telephone                 |
| Building Contractor  Drilling Contractor | ERNIE UMPHRESS & SONS                        | S R R 6 BOX 13 BEDFORD IND                      |                                      |                           |
| Equipment Operator                       | ERNIE UMPHRESS & SONS                        | S License                                       |                                      |                           |
| Construction Details                     |                                              |                                                 |                                      |                           |
| Well                                     | Use HOME                                     | Drilling method CABLE TOOL                      |                                      |                           |
| Casing                                   | Depth 121 0<br>Length 23 58                  | Pump setting depth<br>Material                  | Water quality<br>Diameter 6 (        |                           |
| Screen                                   | Length                                       | Material                                        | Diameter Slo                         |                           |
| Well Capacity Test                       | Type of test<br>Drawdown [t                  | Test rate gpm for hrs Static water level 43 0 f |                                      | ate 0 67 gpm for 1 0 hrs  |
| Grouting Information                     | Material<br>Installation Method              |                                                 | Depth from to<br>Number of bags used |                           |
| Well Abandonment                         | Sealing material<br>Installation Method      |                                                 | Depth from to<br>Number of bags used |                           |
| Administrative                           | County LAWRENCE Section NW 1/4 of the SW 1/4 | /4 of the SW 1/4 of Section 29                  | Township 5N Range                    | 1E  Topo map BEDFORD EAST |
|                                          | Field located by BARNES                      |                                                 | on Fn Jul 01 1960                    |                           |
|                                          | Courthouse location by                       |                                                 | on                                   |                           |
|                                          | Location accepted w/o verific                | ation by                                        | on                                   |                           |
|                                          | Subdivision name                             |                                                 | Lot number                           |                           |
|                                          | Ft W of EL                                   | Ft N of SL. 700                                 | Ft E of WL 300                       | Ft S of NL                |
|                                          | Ground elevation 725 0                       | Depth to bedrock 30.0                           | <b>Bedrock elevation</b><br>695 0    | Aquifier elevation        |
|                                          | UTM Easting 548709 0                         |                                                 | UTM Northing 4298                    | 332 0                     |
| Well Log                                 | Top Botton                                   | m Formation                                     |                                      |                           |
|                                          | 0 0 30 0                                     | DIRT                                            |                                      |                           |
|                                          | 30 0 50 0                                    | WHLS                                            |                                      |                           |
|                                          | no 0 90 0                                    | GRAY LS                                         |                                      |                           |
|                                          | 90 0 121 0                                   | WHIS                                            |                                      |                           |
| Comments                                 | MC700 LOC ACCEPTED W                         | O VERIF NO HARD WATER                           |                                      |                           |

222

Comments

MC705,

#### Record of Water Well

| Reference Number                                           | Driving directions to well                     | redictation of communications are not a transfer to an elastic | Date completed                        |
|------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------|---------------------------------------|
| 217990                                                     | 3MI SE OF BEDFORD IND                          | ON POOR FARM RD                                                | Thu, Mar 29, 1962                     |
| Owner-Contractor Well Owner                                | <i>Name</i><br>LEONARD PAREY                   | Address<br>R R 5 BEDFORD IND                                   | Telephone                             |
| Building Contractor Drilling Contractor Equipment Operator | ERNIE UMPHRESS & SONS                          | R R 6 BEDFORD IND                                              |                                       |
| Equipment Operator                                         |                                                | License                                                        |                                       |
| Construction Details                                       |                                                |                                                                |                                       |
| Well                                                       | Use: HOME                                      | Drilling method: CABLE TOOL                                    | Pump type:                            |
|                                                            | Depth: 100 0                                   | Pump setting depth:                                            | Water quality:                        |
| Casing<br>Screen                                           | Length: 31 0 Length:                           | Material:<br>Material:                                         | Diameter: 6 0<br>Diameter: Slot size: |
| Serceit                                                    | 201181111                                      |                                                                | 5,5,0,0,0,0                           |
| Well Capacity Test                                         | Type of test:                                  | Test rate: gpm for hrs                                         | BailTest rate: 2 0 gpm for hrs        |
|                                                            | Drawdown: ft                                   | Static water level 50 0 ft                                     |                                       |
| Grouting Information                                       | Material:                                      | Dej                                                            | oth from to                           |
| 3 3                                                        | Installation Method:                           | ·                                                              | mber of bags used:                    |
| Well Abandonment                                           | Sealing material:                              | •                                                              | oth: from to                          |
|                                                            | Installation Method:                           | (Vu)                                                           | nber of bags used:                    |
| Administrative                                             | County: LAWRENCE                               | (1) (1) (1) (1) (1)                                            | Township: 5N Range: 1E                |
|                                                            | Section: NE 1/4 of the SW 1/4                  | of the SW 1/4 of Section 29                                    | Topo map · BEDFORD EAS                |
|                                                            | Field located by: JUH  Courthouse location by: |                                                                | on: Mon, Aug 01, 1966 on:             |
|                                                            | Location accepted w/o verifica                 | tion by:                                                       | on                                    |
|                                                            | Subdivision name:                              | ·                                                              | Lot number.                           |
|                                                            | Ft W of EL:                                    | Ft N of SL · 700                                               | Ft E of WL: 700 Ft S of VL            |
|                                                            | Ground elevation 730 0                         | Depth to bedrock 25.0                                          | Bedrock elevation Aquifier elevation. |
|                                                            | UTM Easting: 548848 0                          |                                                                | UTM Northing 4298334 0                |
| Well Log                                                   | Top Bottom                                     | Formation                                                      |                                       |
| Well Log                                                   | 0 0 26 0                                       | DIRI                                                           |                                       |
|                                                            | 26 0 36 0                                      | WHISHARD                                                       |                                       |
|                                                            | 36 0 44 0                                      | BLUEISHARD                                                     |                                       |
|                                                            | 44 0 75 0                                      | BRISSOFT                                                       |                                       |
|                                                            | 75 0 100 0                                     | BLU-15 HARD                                                    |                                       |
|                                                            |                                                |                                                                |                                       |

| Reference Number                         | Driving directions to w                          | vell            | ye saariinaadh ag ay khaa le dh' beer bhiliganii a    | an appropriate our enter him the service and designations. | Date completed                 |
|------------------------------------------|--------------------------------------------------|-----------------|-------------------------------------------------------|------------------------------------------------------------|--------------------------------|
| 217995                                   | WELL DRILLED ON PEER FARM RD JUST S OF BEDFORD A |                 |                                                       | AIR PORT                                                   | Sat, Jul 11, 1959              |
| Owner-Contractor Well Owner              | <i>Name</i><br>GEORGE HICHISON                   | Addr<br>R R     | ess<br>5 BEDFORD IND                                  |                                                            | Telephone                      |
| Building Contractor  Drilling Contractor | WINFRED PHILLIPS                                 | R R             | 5, BEDFORD, IND                                       |                                                            |                                |
| Equipment Operator                       | WINFRED PHILLIPS                                 | Licen           | ise.                                                  |                                                            |                                |
| Construction Details                     |                                                  |                 |                                                       |                                                            |                                |
| Well                                     | Use: HOME                                        | Drilli          | ing method: CABLE TOOL                                | Pump type:                                                 |                                |
|                                          | Depth: 110 0                                     |                 | setting depth:                                        | Water quality                                              |                                |
| Casing<br>Screen                         | Length: 27 0<br>Length:                          | Mate:<br>Mate:  |                                                       | Diameter: 5 (<br>Diameter: Sl                              |                                |
| Well Capacity Test                       | Type of test:<br>Drawdown: ft                    |                 | Test rate: gpm for hrs<br>Static water level: 30 0 ft | BailTest ri                                                | ate: 0 58 gpm for 1 0 hrs      |
| Grouting Information                     | Material:<br>Installation Method:                |                 |                                                       | epth. from to<br>umber of bags used:                       |                                |
| Well Abandonment                         | Sealing material:<br>Installation Method:        |                 |                                                       | epth: from to<br>umber of bags used:                       |                                |
| Administrative                           | County: LAWRENCE                                 | CW/ L/A - Cab - | CW 1/4 of Company 20                                  | Township: 5N Range                                         |                                |
|                                          | Section: NW 1/4 of the                           |                 | SW 1/4 of Section 29                                  |                                                            | Topo map: BEDFORD EAST         |
|                                          | Field located by: BARI                           |                 |                                                       | on: Fn, Jul 01, 1960                                       |                                |
|                                          | Courthouse location by                           |                 |                                                       | on:                                                        |                                |
|                                          | Location accepted w/o                            | verification by | <i>):</i>                                             | on:                                                        |                                |
|                                          | Subdivision name:                                |                 |                                                       | Lot number:                                                |                                |
|                                          | Ft W of EL:                                      | F               | Ft N of SL 700                                        | Ft E of WL: 450                                            | Ft S of NL:                    |
|                                          | Ground elevation: 730                            | 0 <i>E</i>      | Depth to bedrock: 21 0                                | Bedrock elevation:<br>709 0                                | Aquifier elevation             |
|                                          | UTM Easting: 548778                              | 0               |                                                       | UTM Northing: 4298                                         | 328 0                          |
| Well Log                                 | Тор                                              | Bottom          | Formation                                             |                                                            |                                |
|                                          | 0 0                                              | 21.0            | <b>RED CLAY</b>                                       |                                                            |                                |
|                                          | 21 0                                             | 27 ()           | BOULDERS                                              |                                                            |                                |
|                                          | 27 0                                             | 44 ()           | HARD WH LIME                                          |                                                            |                                |
|                                          | 44 0                                             | 95 ()           | SOFT BR LIME                                          |                                                            |                                |
|                                          | 95 0                                             | 111             | VERY HARD BLU                                         | JE LIME                                                    |                                |
| Comments                                 | MC710, HIT WATER B                               | FIW 1764        | & 65 LOC ACCEPTED WA                                  | O VERIF YES,                                               | · Printerskappenderen, menne u |

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#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

218000

ON TUNNELTON & BEDFORD RD APPR. 4MI FROM BEDFORD IND ACROSS RD

FROM AIR PORT

Thu, Apr 27, 1961

Owner-Contractor

Well Owner **Building Contractor** Drilling Contractor

Name HOMER GRUFF JR Address

ERNIE UMPHRESS & SONS R.R 6 BOX 13 BEDFORD IND

2120 2ST BEDFORD IND.

Telephone

Equipment Operator

ERNIE UMPHRESS & SONS License:

Construction Details

Well

Casing

Screen

Use: HOME Depth: 180.0

Length:

Drilling method: CABLE TOOL

Pump setting depth:

Material: Material: Pump type:

Water quality: Diameter: 6.0 Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft.

Length: 32.17

Test rate: gpm for hrs Static water level: 75 0 ft BailTest rate: 28 0 gpm for 1 0 hrs.

Grouting Information

Material:

Installation Method:

Depth: from to

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the NE 1/4 of the SW 1/4 of Section 29

Field located by: JCH Courthouse location by:

Location accepted w/o verification by:

Subdivision name:

Ft W of EL:

Ft N of SL: 2100

Depth to bedrock: 30 0

Township: 5N Range: 1E

Topo map: BEDFORD EAST

on: Mon, Aug 01, 1966

on: on:

Lot number:

Ft E of WL: 1800

Ft S of NL.

Bedrock elevation: 700 0

Aquifier elevation:

Ground elevation: 730 0 UTM Easting: 549156 0

UTM Northing: 4298766 ()

Well Log

Comments

| Тор   | Bottom | Formation        |  |
|-------|--------|------------------|--|
| 0 0   | 28 0   | DIRT             |  |
| 28 0  | 30.0   | BLUE LS BOULDERS |  |
| 30 0  | 100.0  | WH LS HARD       |  |
| 100 0 | 130.0  | GRAY LS SOFT     |  |
| 130 0 | 180 0  | WH LS AVERAGE    |  |
| MC700 |        |                  |  |

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## Record of Water Well

| Reference Number                                | Driving directions to well                   | the section of all the security and an area        | to day us to dough at a day of help on their | Date completed            |
|-------------------------------------------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------|
| 218005                                          | APP 3 MI SE OF BEDFORE<br>GIRISSIOM AIR PORT | ON TUNNELTON ROAD ACROS                            | S FROM VIRGIL                                | Thu Sep 08 1966           |
| Owner Contractor Well Owner Building Contractor | Name<br>SLFRED & ORA COLLINS                 | Address<br>BEDFORD, IND RR6                        |                                              | Telephone                 |
| Drilling Contractor                             | ERNIE UMPHRESS&SONS                          | RR6 BOX 13 BEDFORD IND                             |                                              |                           |
| Equipment Operator                              | EUGENE&CHARLES<br>UMPHRESS                   | License                                            |                                              |                           |
| Construction Details                            |                                              |                                                    |                                              |                           |
| Well                                            | Use STOCK                                    | Drilling method CABLE TOOL                         | Pump type                                    |                           |
|                                                 | Depth 1100                                   | Pump setting depth                                 | Water quality                                | ,                         |
| Casing<br>Screen                                | Length 460<br>Length                         | Material<br>Material                               | Diameter 6 (<br>Diameter Slo                 |                           |
| Well Capacity Test                              | Type of test<br>Drawdown ft                  | Test rate gpm for hrs<br>Static water level 400 ft | BailTest re                                  | ate 08 gpm for hrs        |
| Grouting Information                            | Material<br>Installation Method              | ·                                                  | pth from to<br>mber of bags used             |                           |
| Well Abandonment                                | Sealing material<br>Installation Method      |                                                    | pth from to<br>mber of bags used             |                           |
| Administrative                                  | County LAWRENCE Section NW 1/4 of the NE 1/  | 4 of the SW 1/4 of Section 29                      | Township 5N Range                            | IE  Topo map BEDFORD EAST |
|                                                 | Field located by DCS                         |                                                    | on                                           |                           |
|                                                 | Courthouse location by                       |                                                    | on                                           |                           |
|                                                 | I ocation accepted w/o verific               | ation by                                           | on                                           |                           |
|                                                 | Subdivision name                             |                                                    | I ot number                                  |                           |
|                                                 | Ft W of EL                                   | Ft N of SL. 2200                                   | Ft F of WL 1900                              | Ft S of NL                |
|                                                 | Ground elevation 730 0                       | Depth to bedrock 420                               | Bedrock elevation<br>688 ()                  | Aquifier elevation        |
|                                                 | LTM Easting 549197 0                         |                                                    | UTM Northing 4298                            | 784 0                     |
| Well Log                                        | Fop Botto                                    | m Formation                                        |                                              |                           |
|                                                 | 0.0 42.0                                     | DIRT                                               |                                              |                           |
|                                                 | 42 () 53 ()                                  | BLUE LS HARD                                       |                                              |                           |
|                                                 | 53 () 91 0                                   | GRAY LS SILT                                       |                                              |                           |
|                                                 | 91 () 110 0                                  | WHITE LS HARD                                      |                                              |                           |
| Comments                                        | are 690 ventied by owner me                  |                                                    | ·· ^                                         |                           |

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#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number

Draving directions to well

Date completed

218010

APPR. 1.5MI SE OF BEDFORD, IND. CORNER OF TUNNELTURN & PINHOOK RD

Mon, Dec 14, 1964

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Owner-Contractor Well Owner

**Building Contractor** Drilling Contractor Equipment Operator Name CHARLES R. BOTTS Address

R.R. 6 BEDFORD, IND

**ERNIE UMPRESS & SONS EUGENE & CHARLES UMPHRESS** 

BEDFORD, IND. R.R 6

Telephone

License:

Construction Details

Well

Use: HOME Depth: 140.0 Drilling method: CABLE TOOL Pump setting depth:

Material:

Pump type: Water quality: Diameter: 6 0

Diameter: Slot size:

Casing Screen

Length: 35 Length:

Material:

Test rate: gpm for hrs.

Static water level: 20.0 ft.

BailTest rate: 0 33 gpm for hrs.

Grouting Information

Well Capacity Test

Type of test: Drawdown: ft.

Material:

Installation Method:

Depth: from to

Name and Address of the Address of t

Number of bags used:

Well Abandonment

Sealing material: Installation Method: Depth: from to Number of bags used:

Administrative

County: LAWRENCE

Section: NW 1/4 of the NW 1/4 of the NW 1/4 of Section 29 Field located by: JUH

Courthouse location by:

Location accepted w/o verification by:

Subdivision name:

Ground elevation: 630 0

UTM Easting: 578704 0

Ft W of EL:

Ft N of SL:

Depth to bedrock, 50

Township: 5N Range: 1E

Topo map: BEDFORD EAST

on: Mon, Aug 01, 1966

on: on:

Lot number:

Ft E of WL: 400

Ft S of NL: 100 Redrock elevation Aquifier elevation:

625.0

UTM Northing: 4299671 0

Well Log

| Гор    | Bottom | Formation     |
|--------|--------|---------------|
| 0 0    | 5 0    | DIRT          |
| 5.0    | 26 0   | WHES SOFT     |
| 26 0   | 51 0   | BLUF + S HARD |
| 51.0   | 56 0   | BLUENHNOFT    |
| 56 0   | 92 0   | WHISHARD      |
| 920    | 140 0  | BLUE SHISOFT  |
| MC625. |        |               |

Comments

MC625:

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## Record of Water Well

| Reference Number                        | Driving directions to well                              | THE BOTTOM                                         | L months of the                        | Date completed             |
|-----------------------------------------|---------------------------------------------------------|----------------------------------------------------|----------------------------------------|----------------------------|
| 218015                                  | IMI OFF TUNNELTON RD                                    | ON PINHOOK RD                                      | 7                                      | Tue Jul 07 1964            |
| Owner Contractor Well Owner             | <i>Name</i><br>DONALD NORDHOFF                          | Address<br>BEDFORD IND 616 TST                     | 7                                      | Celephone                  |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SON                                    | S BEDFORD IND R R 6                                |                                        |                            |
| Equipment Operator                      | EUGENE & CHARLES<br>UMPHRESS                            | License                                            |                                        |                            |
| Construction Details                    |                                                         |                                                    |                                        |                            |
| Well                                    | Use HOME                                                | Drilling method CABLE TOOL                         | Pump type                              |                            |
| C                                       | Depth 107 0                                             | Pump setting depth                                 | Water quality                          |                            |
| Casing<br>Screen                        | Length 60<br>Length                                     | Material<br>Material                               | Diameter 60<br>Diameter. Slot si       | ze.                        |
| Well Capacity Test                      | Type of test<br>Drawdown ft                             | Test rate gpm for hrs<br>Static water level 200 ft | BailTest rate                          | 0 25 gpm for hrs           |
| Grouting Information                    | Material<br>Installation Method                         |                                                    | epth from to<br>umber of bags used     |                            |
| Well Abandonment                        | Sealing material<br>Installation Method                 |                                                    | epth from to umber of bags used        |                            |
| Administrative                          | County LAWRENCE Section SW 1/4 of the NW 1.             | /4 of the NW 1/4 of Section 28                     | Township · 5N Range 1E                 | Z<br>Topo map BEDFORD EAST |
|                                         | Field located by JUH                                    |                                                    | on Mon Aug 01 1966                     |                            |
|                                         | Courthouse location by                                  |                                                    | on                                     |                            |
|                                         | Location accepted w/o verific                           | ation by                                           | on                                     |                            |
|                                         | Subdivision name                                        |                                                    | Lot number                             |                            |
|                                         | Ft W of EL                                              | Ft N of SL                                         | Ft E of WL 600                         | Ft S of NL. 1000           |
|                                         | Ground elevation 660 0                                  | Depth to bedrock 50                                | Bedrock elevation<br>655 0             | Aquifier elevation         |
|                                         | UTM Easting                                             |                                                    | UTM Northing                           |                            |
| Well In.                                | Top Botton                                              | m Formation                                        |                                        |                            |
|                                         | 0 0 2 0                                                 | DIRT                                               |                                        |                            |
|                                         | 20 330                                                  | (RAYISHARD                                         |                                        |                            |
|                                         | 33 0 59 0                                               | BLUETSHARD                                         |                                        |                            |
|                                         | 59 0 65 0                                               | BLUF LS SOFT                                       |                                        |                            |
|                                         | 65 0 101 0                                              | HI (FISH \RD                                       |                                        |                            |
|                                         | 101 0 107 0                                             | PLUE SH SOFT                                       |                                        |                            |
| Comm                                    | to the hydridization for the property of the section of | on an own                                          | the made till I action that is well to | ين به نفت ست ميت.          |

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## 228

Allarana Department or I talarar recognices

| Reference Number                                           | Driving directions to well                     | TEN TORKES IN MA SERIAL I                             | on SEES contained from a contract of Selection and Assessment Contracts | Date completed              |
|------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------|
| 218020                                                     | 3MI SE ON TUNNELTON F<br>LITTLE TO THE N       | RD , FROM BEDFORD IND & ACR                           | OSS RD TROM AIRPORT A                                                   | Thu, Apr 14, 1960           |
| Owner-Contractor                                           | Name                                           | Address                                               |                                                                         | Telephone                   |
| Well Owner                                                 | GIRL SCOUT ASSN LAW CO                         | 1415 1/2 W 15TH ST                                    |                                                                         |                             |
| Building Contractor Drilling Contractor Equipment Operator |                                                | S LEATHERWOOD RD, BEDFOR                              | D, INDIANARR 6 BOX 13                                                   |                             |
| Equipment Operator                                         | Elline of the three of the                     | Diction .                                             |                                                                         |                             |
| Construction Details                                       |                                                |                                                       |                                                                         |                             |
| Well                                                       | Use: PUBLIC SUPPLY                             | Drilling method: CABLE TOOL                           | Pump type:                                                              |                             |
| Caria                                                      | Depth: 205 0                                   | Pump setting depth:                                   | Water quality:                                                          |                             |
| Casing<br>Screen                                           | Length: 47 0<br>Length:                        | Material:<br>Material:                                | Diameter: 6.0<br>Diameter: Slot                                         | size:                       |
| Well Capacity Test                                         | Type of test:<br>Drawdown: ft                  | Test rate: gpm for hrs<br>Static water level: 43 0 ft | BailTest rate                                                           | 2: 2 0 gpm for 1 0 hrs      |
| Grouting Information                                       | Material:<br>Installation Method <sup>.</sup>  |                                                       | pth: from to<br>ember of bags used:                                     |                             |
| Well Abandonment                                           | Sealing material:<br>Installation Method:      |                                                       | pth: from to mber of bags used:                                         |                             |
| Administrative                                             | County: LAWRENCE Section: SE 1/4 of the SE 1/4 | of the NW 1/4 of Section 29                           | Township: 5N Range: 1                                                   | E<br>Topo map. BEDFORD EAST |
|                                                            | Field located by: BARNES                       |                                                       | on: Fri, Jul 01, 1960                                                   |                             |
|                                                            | Courthouse location by:                        |                                                       | on:                                                                     |                             |
|                                                            | Location accepted w/o verific                  | ation by:                                             | on:                                                                     |                             |
|                                                            | Subdivision name:                              |                                                       | Lot number:                                                             |                             |
|                                                            | Ft W of EL. 2800                               | Ft N of SL: 2900                                      | Ft E of WL                                                              | Ft S of NL:                 |
|                                                            | Ground elevation 730 0                         | Depth to bedrock: 30 0                                | Bedrock elevation:<br>700 0                                             | Aquifier elevation          |
|                                                            | UTM Easting: 549353 0                          |                                                       | UTM Northing: 4299020                                                   | 5 0                         |
| Well Log                                                   | Top Botton                                     | ı Formation                                           |                                                                         |                             |
| · ·                                                        | 0 0 30 0                                       | DIRT                                                  |                                                                         |                             |
|                                                            | 30 0 42 0                                      | DIR F & HARD LS                                       | BOULDERS                                                                |                             |
|                                                            | 42 0 60 0                                      | WH LS HARD                                            |                                                                         |                             |
|                                                            | 60 0                                           | BR LS SOFT                                            |                                                                         |                             |
|                                                            | 75 0 150 0                                     | BLUE LS HARD                                          |                                                                         |                             |
|                                                            | 150 0 190 0                                    | WH LS EXTRA HA                                        | ARD                                                                     |                             |
|                                                            | 190 0 205 0                                    | BLUE LS HARD                                          |                                                                         |                             |
| Comments                                                   | MC730,                                         |                                                       | والمعاشر والمعاشف المحاضفة الأخارة الأخارة                              |                             |

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Comments

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#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number Driving directions to well Date completed 218025 4 MILES EAST OF BEDFORD ON PINHOOK ROAD, BRIDGE CROSSING SAND CREEK Tue, Aug 27, 1963 AT START, LEFT SIDE OF ROAD Owner-Contractor Name Address Telephone DONALD AND LEE Well Owner #10 MURRAY COURT NORDHOFF **Building Contractor** Drilling Contractor ERNIE UMPHRESS & SONS RR 6, BOX 13, BEDFORD IN **EUGENE & CHARLES** Equipment Operator License: **UMPHRESS** Construction Details Well Use: HOME Drilling method: CABLE TOOL Pump type: Depth: 200 0 Pump setting depth: Water quality: Length: 5.0 Material: Diameter: 6.0 Casing Screen Length: Material: Diameter: Slot size: Well Capacity Test Type of test: Test rate: gpm for hrs. BailTest rate: 0.1 gpm for hrs. Drawdown: ft. Static water level: 110 0 ft. Grouting Information Material: Depth: from to Installation Method: Number of bags used: Well Abandonment Sealing material: Depth: from to Installation Method: Number of bags used: Administrative County: LAWRENCE Township: 5N Range: 1E Section: SW 1/4 of the NW 1/4 of the NW 1/4 of Section 28 Topo map: BEDFORD EAST Field located by: JVH on: Mon, Aug 01, 1966 Courthouse location by: on: Location accepted w/o verification by: on: Subdivision name: Lot number: Ft N of SL: Ft W of EL: Ft E of WL: 600 Ft S of NL: 1000 Ground elevation: 660 0 Depth to bedrock: Bedrock elevation: Aquifier elevation: UTM Easting: UTM Northing: Bottom Formation Well Log

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## Record of Water Well

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| Reference Number                        | Driving directions to we                | ell                      |                                                   |                                   | Date completed            |
|-----------------------------------------|-----------------------------------------|--------------------------|---------------------------------------------------|-----------------------------------|---------------------------|
| 218030                                  | IMI E OFF TUNNEL FON RD ON PINHOOK RD   |                          |                                                   | Thu Sep 24 1964                   |                           |
| Owner-Contractor Well Owner             | <i>Name</i><br>DONALD NORDHOFF          | <i>Address</i><br>BEDFOR | D IND 616 TST                                     |                                   | Telephone                 |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & S                      | SONS BEDFOR              | D IND RR 6                                        |                                   |                           |
| Equipment Operator                      | EUGENE & CHARLES<br>UMPHRESS            | License                  |                                                   |                                   |                           |
| Construction Details                    |                                         |                          |                                                   |                                   |                           |
| Well                                    | Use HOME                                | _                        | nethod CABLE TOOL                                 | Pump type                         |                           |
|                                         | Depth 200 0                             | =                        | ting depth                                        | Water quali                       |                           |
| Casing<br>Screen                        | Length 120<br>Length                    | Material<br>Material     |                                                   | Diameter 6<br>Diameter S          |                           |
| Well Capacity Test                      | Type of test<br>Drawdown ft             |                          | est rate gpm for hrs<br>tatic water level 1140 ft |                                   | rate 0.2 gpm for hrs      |
| Grouting Information                    | Material<br>Installation Method         |                          |                                                   | pth from to<br>umber of bags used |                           |
| Well Abandonment                        | Sealing material<br>Installation Method |                          | -                                                 | pth from to<br>mber of bags used  |                           |
| Administrative                          | County LAWRENCE Section SW 1/4 of the N | IW 1/4 of the NW         | / 1/4 of Section 28                               | Township 5N Range                 | tE  Topo map BEDFORD EAST |
|                                         | Field located by JCH                    | W 1/4 Of the 14 W        | 174 01 30 11011 28                                | on Mon Aug 01 19                  |                           |
|                                         | Courthouse location by                  |                          |                                                   | on                                |                           |
|                                         | Location accepted w/o ve                | enfication by            |                                                   | on                                |                           |
|                                         | Subdivision name                        | <b></b>                  |                                                   | Lot number                        |                           |
|                                         | Ft W of EL                              | į                        | Ft N of SL                                        | Ft F of WL 600                    | Ft S of NL 1000           |
|                                         | Ground elevation 660 0                  |                          | Depth to bedrock                                  | Bedrock elevation                 | Aquifier elevation        |
|                                         | UI M Fasting                            |                          | - <b> </b>                                        | UIM Northing                      |                           |
| Well Log                                | Тор В                                   | ottom                    | Formation                                         |                                   |                           |
|                                         | 0 0 4                                   | 0                        | DIRT                                              |                                   |                           |
|                                         | 4 0 2                                   | 8 0                      | GRAY LS HARD                                      |                                   |                           |
|                                         | 28 ()                                   | 3 0                      | BLUE LS HARD                                      |                                   |                           |
|                                         | 53.0                                    | 0 0                      | BLUE LS SOFT                                      |                                   |                           |
|                                         | 60 0                                    | 08 0                     | BLUE I S HARD                                     |                                   |                           |
|                                         | 108.0                                   | 00 0                     | BLUE SH SOFT                                      |                                   |                           |

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| Reference Number                        | Driving directions to well                    | Manager and and an artist of the second of t | न्ते विका स्वीतः स्वीतः स्वातः स्वातः व्यवस्तः प्रवातः | Date completed                                            |
|-----------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|
| 218035                                  | APPR. 3MI E OF BEDFORD                        | Wed, Apr 07, 1965                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        |                                                           |
| Owner-Contractor Well Owner             | <i>Name</i><br>DONALD NORDHOFF                | Address<br>BEDFORD, IND. R.R.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        | Telephone                                                 |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                         | S BEDFORD IND. R R. 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |                                                           |
| Equipment Operator                      | EUGENE & CHARLES<br>UMPHRESS                  | License:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |                                                           |
| Construction Details                    |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                           |
| Well                                    | Use: HOME                                     | Drilling method: CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pump type:                                             |                                                           |
| _                                       | Depth: 200.0                                  | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quality                                          |                                                           |
| Casing<br>Screen                        | Length: 7.0<br>Length:                        | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter: 6.0<br>Diameter: Slo                         |                                                           |
| Well Capacity Test                      | Type of test:                                 | Test rate: gpm for hrs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BailTest ra                                            | nte: 0 27 gpm for hrs.                                    |
|                                         | Drawdown: ft.                                 | Static water level: 92.0 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                           |
| Grouting Information                    | Material:                                     | Dep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | th: from to                                            |                                                           |
|                                         | Installation Method:                          | Nun                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | nber of bags used:                                     |                                                           |
| Well Abandonment                        | Sealing material: Depth: from to              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                           |
|                                         | Installation Method: Number of bags used:     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                           |
| Administrative                          | County: LAWRENCE Section: SW 1/4 of the NW 1/ | A of the NW 1/4 of Section 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Township: 5N Range:                                    | 1E Topo map: BEDFORD EAST                                 |
|                                         | Field located by: JNH                         | TOT THE TYPE TOT SECTION 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | on: Mon, Aug 01, 196                                   |                                                           |
|                                         | Courthouse location by:                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                                                    | •                                                         |
|                                         | Location accepted w/o verific                 | ation by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | on:                                                    |                                                           |
|                                         | Subdivision name:                             | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Lot number:                                            |                                                           |
|                                         | Ft W of EL:                                   | Ft N of SL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ft E of WL: 600                                        | Ft S of NL: 1000                                          |
|                                         | Ground elevation: 660 0                       | Depth to bedrock: 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bedrock elevation:<br>6560                             | Aquifier elevation:                                       |
|                                         | UTM Easting: 550378.0                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing: 4299-                                    | 403 0                                                     |
| Well Log                                | Top Botton                                    | n Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |                                                           |
|                                         | 0 0 4 0                                       | DIR'T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |                                                           |
|                                         | 4 0 28 0                                      | GRAY LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                           |
|                                         | 28 0 53 0                                     | BLUE LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                           |
|                                         | 53.0 60 0                                     | BLUE LS SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                           |
|                                         | 60 0 116.0                                    | BLUE LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                           |
|                                         | 116 0 200.0                                   | BLUE SH SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                           |
| Comments                                | MC655;                                        | to the test strategy respectively.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        | Action of the designation of the Bully of the designation |

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## Record of Water Well

| Reference Number                                                   | Driving directions to well                                            | nic sur il ultra paga. Aurula ultra delle in la perenti di | and for the later of participality and assessment.           | Date completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 218040                                                             | APPR 4MI SE OF BEDFOR                                                 | RD, IND ON PINHOOK RD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              | Fn. Oct 16, 1964                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Owner-Contractor Well Owner Building Contractor Dnlling Contractor | Name<br>HAZEL L. GILSLEEP<br>ERNIE UMPHRESS & SON<br>EUGENE & CHARLES | Address BEDFORD, IND R R 5 S BEDFORD, IND R R 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              | Telephone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Equipment Operator                                                 | UMPHRESS                                                              | License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Construction Details                                               |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Well                                                               | Use: STOCK                                                            | Drilling method: CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | . Pump type:                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                    | Depth: 100 0                                                          | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quality:                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Casing<br>Screen                                                   | Length:<br>Length:                                                    | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter: 6 0<br>Diameter: Slo                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Well Capacity Test                                                 | Type of test:                                                         | Test rate: gpm for hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BailTest ra                                                  | te: 10 gpm for hrs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                    | Drawdown: ft.                                                         | Static water level: 20 0 f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | l                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Grouting Information                                               | Material:                                                             | I.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Depth: from to                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                    | Installation Method:                                                  | ۸                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | lumber of bags used:                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Well Abandonment                                                   | Sealing material:                                                     | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Depth: from to                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                    | Installation Method:                                                  | ۸                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | lumber of bags used:                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Administrative                                                     | County: LAWRENCE                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township: 5N Range:                                          | IE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                    | Section: NW 1/4 of the NE 1.                                          | 4 of the SE 1/4 of Section 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              | Topo map: BEDFORD EAST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                    | Field located by: JCH                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on: Mon, Aug 01, 1966                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                    | Courthouse location by:                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on·                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                    | Location accepted w/o verific                                         | eation by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | on                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                    | Subdivision name:                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number.                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                    | Ft W of EL: 700                                                       | Ft N of SL: 2600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ft E of WL                                                   | Ft S of NL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                    | Ground elevation: 635 0                                               | Depth to bedrock: 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Bedrock elevation:<br>620 0                                  | Aquifier elevation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                    | UTM Easting: 551635 0                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing: 42988                                          | 37 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Well Log                                                           | Top Botto                                                             | n Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                    | 00 170                                                                | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                    | 17 0 100 0                                                            | BLUE SH SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Comments                                                           | MC620,                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | يو مطلق المدور المواصدة المدارة المحارة المحارة والمواجف الم | - Add Specific Control of the Contro |

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## Record of Water Well

| Reference Number                        | Driving directions to we    | ı              | ag k en om te te engan-albes                        | ه مغلومت پېښو او دو               | Date completed           |
|-----------------------------------------|-----------------------------|----------------|-----------------------------------------------------|-----------------------------------|--------------------------|
| 218045                                  | 1 SMI OFF THE BEDFO         | rd tunne       | ELTON RD ON THE GOOS                                | E TOWN RD                         | Tue May 23 1961          |
| Owner-Contractor Well Owner             | <i>Name</i><br>CAM ANDERSON | Addre.<br>RR 5 | ss<br>BEDFORD                                       |                                   | Telephone                |
| Building Contractor Drilling Contractor | WINFRED PHILLIPS            | RR 5           | BEDFORD                                             |                                   |                          |
| Equipment Operator                      | WINFRED PHILLIPS            | Licens         | se                                                  |                                   |                          |
| Construction Details                    |                             |                |                                                     |                                   |                          |
| Well                                    | Use HOME                    | Drillin        | ig method CABLE TOOL                                | Pump type                         |                          |
|                                         | Depth 2100                  |                | setting depth                                       | Water quality                     |                          |
| Casing                                  | Length 70                   | Materi         |                                                     | Diameter 56                       |                          |
| Screen                                  | Length                      | Materi         | nal                                                 | Diameter Slo                      | t sıze                   |
| Well Capacity Test                      | Type of test<br>Drawdown ft |                | Test rate gpm for hrs<br>Static water level 65 0 ft | BailTest ra                       | tte 0 09 gpm for 1 0 hrs |
| Grouting Information                    | Material                    |                | De                                                  | epth from to                      |                          |
| 0 7                                     | Installation Method         |                | ·                                                   | umber of bags used                |                          |
| Well Abandonment                        | Sealing material            |                | De                                                  | pth from to                       |                          |
|                                         | Installation Method         |                | Nu                                                  | umber of bags used                |                          |
| Administrative                          | County LAWRENCE             |                |                                                     | Township 5N Range                 | 1E                       |
|                                         | Section NE 1/4 of the SE    | 1/4 of the N   | W 1/4 of Section 28                                 |                                   | Topo map BEDFORD FAST    |
|                                         | Field located by JCH        |                |                                                     | on                                |                          |
|                                         | Courthouse location by      |                |                                                     | on                                |                          |
|                                         | Location accepted w/o ve    | rification by  |                                                     | on                                |                          |
|                                         | Subdivision name            |                |                                                     | Lot number                        |                          |
|                                         | Ft W of EL                  | 1              | Ft N of SL                                          | Ft E of WL 2600                   | Ft S of NL. 1500         |
|                                         | Ground elevation 6100       | I              | Depth to bedrock > 0                                | <b>Bedrock elevation</b><br>605 0 | Aquifier elevation       |
|                                         | UTM Easting 550986 0        |                |                                                     | UTM Northing 42992                | 255 0                    |
| Well Log                                | Гор Во                      | ottom          | Form ition                                          |                                   |                          |
|                                         | 0 0 6                       | )              | CLAY                                                |                                   |                          |
|                                         | 6.0 58                      | 0              | 15                                                  |                                   |                          |
|                                         | 58 0 21                     | 0 0            | BLUFSH                                              |                                   |                          |
| Comments                                | MC605                       | m . ~          |                                                     |                                   |                          |

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| Reference Number 218050                         | Driving directions to well                |                                                 |                                        | Date completed         |
|-------------------------------------------------|-------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------|
| 210030                                          | APP .5MI S OF GOOSE TO                    | WN SCHOOL ON PINHOOK RD                         |                                        | Sat, Jun 14, 1969      |
| Owner-Contractor Well Owner Building Contractor | Name<br>BOB MEDOWS                        | Address<br>BEDFORD, R5                          |                                        | Telephone              |
| Drilling Contractor                             | ERNIE UMPHRESS & SON                      | S R. 6 BEDFORD, IND                             |                                        |                        |
| Equipment Operator                              |                                           | License:                                        |                                        |                        |
| Construction Details                            |                                           |                                                 |                                        |                        |
| Well                                            | Use: HOME                                 | Drilling method:                                | Pump type:                             |                        |
|                                                 | Depth: 219.0                              | Pump setting depth:                             | Water quality                          | <i>::</i>              |
| Casing<br>Screen                                | Length:<br>Length:                        | Material:<br>Material:                          | Diameter: 6 (<br>Diameter: Sl          |                        |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft             | Test rate: gpm for hrs.  Static water level: ft | BailTest r                             | ate: gpm for hrs       |
| Grouting Information                            | Material:<br>Installation Method:         |                                                 | Depth: from to<br>Number of bags used: |                        |
| Well Abandonment                                | Sealing material:<br>Installation Method: |                                                 | Depth: from to<br>Number of bags used: |                        |
| Administrative                                  | County: LAWRENCE                          |                                                 | Township: 5N Range                     | · IE                   |
|                                                 | Section: NE 1/4 of the NW 1/              | 4 of the SW 1/4 of Section 28                   |                                        | Topo map: BEDFORD EAST |
|                                                 | Field located by: PW                      |                                                 | on: Fn, Aug 13, 1971                   |                        |
|                                                 | Courthouse location by:                   |                                                 | on:                                    |                        |
|                                                 | Location accepted w/o verific             | ation by:                                       | on:                                    |                        |
|                                                 | Subdivision name:                         |                                                 | Lot number:                            |                        |
|                                                 | Ft W of EL:                               | Ft N of SL: 2300                                | Ft E of WL: 1300                       | Ft S of NL:            |
|                                                 | Ground elevation: 700 0                   | Depth to bedrock: 150                           | <b>Bedrock elevation:</b><br>685 0     | Aquifier elevation:    |
|                                                 | UTM Easting: 550611 0                     |                                                 | UTM Northing: 42988                    | 319 0                  |
| Well Log                                        | Top Bottor                                | n Formation                                     |                                        |                        |
|                                                 | 0 0 15 0                                  | DIRT                                            |                                        |                        |
|                                                 | 15 0 30 0                                 | BROKEN STON                                     | 3                                      |                        |
|                                                 | 30 0 60 0                                 | BLUE LS SOFT                                    |                                        |                        |
|                                                 | 60 0 85 0                                 | BLUE LS HARD                                    |                                        |                        |
|                                                 | 85 0 120 0                                | WH LS HARD                                      |                                        |                        |
|                                                 | 120 0 145 0                               | BLUE LS HARD                                    |                                        |                        |
|                                                 | 145 0 219 0                               | BLUE SH SOFT                                    |                                        |                        |
| Comments                                        | MC685, DRY HOLE VERIFI                    | FDBY OW <b>ner M</b> C:                         |                                        |                        |

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| Reference Number                                | Driving directions to well                    | 86 राजकारिक का राज्यकार । आसाम क्रेस्टान ने क्रिक्टर व्यक्त कर्म<br>- | de cripagoside datable collections com le discrete della | Date completed                |
|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------|-------------------------------|
| 221541                                          | JUST S OF POOR FARM RI                        | & ABOUT .5MI OF TUNTELTON                                             | RD TO W #2                                               | Sat, Dec 05, 1959             |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>HIRKMAN & PARLEY               | Address<br>R.R. 6 BEDFORD IND.                                        |                                                          | Telephone                     |
| Drilling Contractor                             | ERNIE UMPHRESS & SONS                         | R.R. 6 BOX 18 BEDFORD IND                                             |                                                          |                               |
| Equipment Operator                              | ERNIE UMPHRESS & SONS                         | S License:                                                            |                                                          |                               |
| Construction Details                            |                                               |                                                                       |                                                          |                               |
| Well                                            | Use: HOME                                     | Drilling method: CABLE TOOL                                           | Pump type:                                               |                               |
|                                                 | Depth: 125.0                                  | Pump setting depth:                                                   | Water quality                                            | y:                            |
| Casing<br>Screen                                | Length: 38.83<br>Length:                      | Material:<br>Material:                                                | Diameter: 6.0<br>Diameter: Sl                            |                               |
| Well Capacity Test                              | Type of test:                                 | Test rate: gpm for hrs.                                               | BailTest r                                               | ate: 2.5 gpm for 1 0 hrs.     |
|                                                 | Drawdown: ft.                                 | Static water level: 57 0 ft.                                          |                                                          |                               |
| Grouting Information                            | Material: Depth: from t                       |                                                                       | oth: from to                                             |                               |
|                                                 | Installation Method:                          | Nu                                                                    | mber of bags used:                                       |                               |
| Well Abandonment                                | Sealing material: Installation Method:        | ·                                                                     | oth: from to<br>mber of bags used:                       |                               |
| Administrative                                  | County: LAWRENCE Section: SW 1/4 of the SW 1/ | 4 of the SW 1/4 of Section 29                                         | Township: 5N Range                                       | :: 1E  Topo map: BEDFORD EAST |
|                                                 | Field located by: BARNES                      |                                                                       | on: Fri, Jul 01, 1960                                    | Topo map. Babi one Enter      |
|                                                 | Courthouse location by:                       |                                                                       | on:                                                      |                               |
|                                                 | Location accepted w/o verific                 | ation by:                                                             | on:                                                      |                               |
|                                                 | Subdivision name:                             |                                                                       | Lot number:                                              |                               |
|                                                 | Ft W of EL:                                   | Ft N of SL: 550                                                       | Ft E of WL: 300                                          | Ft S of NL:                   |
|                                                 | Ground elevation: 730 0                       | Depth to bedrock: 33.0                                                | <b>Bedrock</b> elevation:<br>697 0                       | Aquifier elevation.           |
|                                                 | UTM Easting: 548732 0                         |                                                                       | UTM Nonhing: 4298                                        | 3267 0                        |
| Well Log                                        | Top Bottor                                    | n Formation                                                           |                                                          |                               |
| •                                               | 0 0 33 0                                      | DIRT                                                                  |                                                          |                               |
|                                                 | 33 0 52 0                                     | BLUE LS HARD                                                          |                                                          |                               |
|                                                 | 52 0 70 0                                     | GRAY LS SOFT                                                          |                                                          |                               |
|                                                 | 70 0 125 0                                    | WH LS HARD                                                            |                                                          |                               |
| Comments                                        | MC700, INFOR FROM NEIG                        | HBOR; LOC ACCEPTED W/O VERI                                           | F. YES.                                                  |                               |

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#### Indiana Department of Natural Resources

| Reference Number                       | Driving directions to well                     | - 19 M 1004                  |                                        | Date completed           |  |
|----------------------------------------|------------------------------------------------|------------------------------|----------------------------------------|--------------------------|--|
| 221546                                 | JUST S OF POOR FARM RE                         | Tue, Dec 08, 1959            |                                        |                          |  |
| Owner-Contractor Well Owner            | <i>Name</i><br>HIRKMAN & PARLEY                | Address<br>R R 6 BEDFORD IND |                                        | Telephone                |  |
| Building Contractor                    |                                                |                              |                                        |                          |  |
| Drilling Contractor Equipment Operator | ERNIE UMPHRESS & SONS<br>ERNIE UMPHRESS & SONS |                              |                                        |                          |  |
| Equipment Operator                     | ERITE OIM TREES & SONS                         | Ciccisc                      |                                        |                          |  |
| Construction Details                   |                                                |                              |                                        |                          |  |
| Well                                   | Use: HOME                                      | Drilling method: CABLE TOOL  | . Pump type                            |                          |  |
|                                        | Depth: 106 0                                   | Pump setting depth:          | Water quality                          | <i>:</i>                 |  |
| Casing                                 | Length: 35 3                                   | Material:                    | Diameter: 60                           |                          |  |
| Screen                                 | Length:                                        | Material:                    | Diameter: Slo                          | ot size:                 |  |
| Well Capacity Test                     | Type of test:                                  | Test rate: gpm for hrs       | BailTest ra                            | ute: 0 3 gpm for 1 0 hrs |  |
| . ,                                    | Drawdown: ft                                   | Static water level: 56 0 ft  |                                        | 2.                       |  |
| C Lufter and the second                | Material:                                      | r                            | )4b, 6                                 |                          |  |
| Grouting Information                   | maieriai:<br>Installation Method               |                              | Depth. from to<br>Tumber of bags used: |                          |  |
|                                        |                                                |                              |                                        |                          |  |
| Well Abandonment                       | Sealing material:                              |                              | Depth: from to                         |                          |  |
|                                        | Installation Method:                           | ۸                            | umber of bags used:                    |                          |  |
| Administrative                         | County: LAWRENCE                               |                              | Township: 5N Range                     | 1E                       |  |
|                                        | Section: SW 1/4 of the SW 1/4                  | of the SW 1/4 of Section 29  |                                        | Topo map BEDFORD EAS     |  |
|                                        | Field located by BARNES                        |                              | on: Fn, Jul 01, 1960                   |                          |  |
|                                        | Courthouse location by:                        |                              | on·                                    |                          |  |
|                                        | Location accepted w/o verifice                 | ution by                     | on:                                    |                          |  |
|                                        | Subdivision name:                              |                              | Lot number                             |                          |  |
|                                        | Ft W of EL:                                    | Ft N of SL: 550              | Ft E of WL: 500                        | Ft S of NL               |  |
|                                        | Ground elevation: 730 0                        | Depth to bedrock 320         | Bedrock elevation<br>698 0             | Aquifier elevation       |  |
|                                        | UTM Easting. 548779 0                          |                              | UTM Northing 42981                     | 269 0                    |  |
|                                        |                                                |                              |                                        |                          |  |
| Well Log                               | Top Bottom                                     |                              |                                        |                          |  |
|                                        | 0 0 32 0                                       | DIRT                         |                                        |                          |  |
|                                        | 32 0 50 0                                      | BLUE LS HARD                 |                                        |                          |  |
|                                        | 50 0 70 0                                      | GRAY LS SOFT                 |                                        |                          |  |
|                                        | 70 0 106 0                                     | WH LS HARD                   |                                        |                          |  |

Comments MC700 VERIFIED BY NEIGHBOR, LOC ACCEPTED W/O VERIF YES.

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| Reference Number                           | Driving directions to well                | andre in the control of enhanced | ranta, an maka, asa maka a dasahi . Ja ndan saha, an ana ata ti terdanggan | Date completed             |
|--------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|
| 221551                                     | APPR. 200' S OF POOR FAR                  | RM RD OR 3MI SE BEDFORD                                                                      | IND                                                                        | Wed, Nov 11, 1959          |
| Owner-Contractor Well Owner                | <i>Name</i><br>JACK CUMMINS               | Address<br>R.R. 6 BEDFORD                                                                    |                                                                            | Telephone                  |
| Building Contractor<br>Drilling Contractor |                                           | R.R. 6 BOX 13 BEDFORD II                                                                     | ND.                                                                        |                            |
| Equipment Operator                         | ERNIE UMPHRESS & SONS                     | S License:                                                                                   |                                                                            |                            |
| Construction Details                       |                                           |                                                                                              |                                                                            |                            |
| Well                                       | Use:                                      | Drilling method: CABLE TO                                                                    | OL Pump type:                                                              |                            |
|                                            | Depth: 100.0                              | Pump setting depth:                                                                          | Water quali                                                                | ity:                       |
| Casing<br>Screen                           | Length: 23.75<br>Length:                  | Material:<br>Material:                                                                       | Diameter: 6<br>Diameter: S                                                 |                            |
| Well Capacity Test                         | Type of test:<br>Drawdown: ft.            | Test rate: gpm for hrs<br>Static water level: 30                                             |                                                                            | rate: 0.2 gpm for 1.0 hrs. |
| Grouting Information                       | Material:<br>Installation Method:         |                                                                                              | Depth: from to Number of bags used:                                        |                            |
| Well Abandonment                           | Sealing material:<br>Installation Method: |                                                                                              | Depth: from to Number of bags used:                                        |                            |
| Administrative                             | County: LAWRENCE                          |                                                                                              | Township: 5N Rang                                                          | e: 1E                      |
|                                            | Section: SW 1/4 of the SW 1/              | 4 of the SW 1/4 of Section 29                                                                |                                                                            | Topo map: BEDFORD EAST     |
|                                            | Field located by: BARNES                  |                                                                                              | on: Fri, Jul 01, 1960                                                      | )                          |
|                                            | Courthouse location by:                   |                                                                                              | on:                                                                        |                            |
|                                            | Location accepted w/o verific             | ation by:                                                                                    | on:                                                                        |                            |
|                                            | Subdivision name:                         |                                                                                              | Lot number:                                                                |                            |
|                                            | Ft W of EL:                               | Ft N of SL: 500                                                                              | Ft E of WL: 100                                                            | Ft S of NL:                |
|                                            | Ground elevation: 720.0                   | Depth to bedrock: 22 0                                                                       | Bedrock elevation:<br>698.0                                                | Aquifier elevation:        |
|                                            | UTM Easting: 548643.0                     |                                                                                              | UTM Northing: 429                                                          | 8267 0                     |
| Well Log                                   | Top Botton                                | n Formation                                                                                  |                                                                            |                            |
|                                            | 0.0 22 0                                  | DIRT                                                                                         |                                                                            |                            |
|                                            | 23.0 43.0                                 | BLUE LS HA                                                                                   | RD                                                                         |                            |
|                                            | 43.0 77.0                                 | GRAY LS SO                                                                                   | FT                                                                         |                            |
|                                            | 77.0 100.0                                | BLUE LS EX                                                                                   | TRA HARD                                                                   |                            |
| Comments                                   | MC700 LOC. ACCEPTED W                     | O VERIF. YES;                                                                                |                                                                            |                            |

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| Reference Number                        | Driving directions to well                                                             | proper to take of the education of the second |           |                                     | Date completed            |  |  |
|-----------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------|-----------|-------------------------------------|---------------------------|--|--|
| 221556                                  | ABOUT 3MI S OF BEDFO                                                                   | PRD OFF TUNTILTON RD                          | ABOUT 5M  | I W ON POOR FARM F                  | RD Wed, May 25, 1966      |  |  |
| Owner-Contractor Well Owner             | <i>Name</i><br>JAMES ROOT                                                              | <i>Address</i><br>R R 6 BEDFORD IND           |           |                                     | Telephone                 |  |  |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SO                                                                    | NS RR 6 BOX 13 BEDFC                          | RD IND    |                                     |                           |  |  |
| Equipment Operator                      | ERNIE UMPHRESS & SO                                                                    |                                               |           |                                     |                           |  |  |
| Construction Details                    |                                                                                        |                                               |           |                                     |                           |  |  |
| Well                                    | Use: HOME                                                                              | Drilling method: CABI                         | E TOOL    | Pump type:                          |                           |  |  |
|                                         | Depth: 100.0                                                                           | Pump setting depth:                           |           | Water quality                       | y:                        |  |  |
| Casing<br>Screen                        | Length:<br>Length:                                                                     | Material:<br>Material:                        |           | Diameter: 6.9<br>Diameter: SI       |                           |  |  |
| Well Capacity Test                      | Type of test: Drawdown: ft.                                                            | Test rate: gpm f<br>Static water leve         |           | BailTest r                          | rate: 3 0 gpm for 1 0 hrs |  |  |
| Grouting Information                    | Material:<br>Installation Method:                                                      |                                               | -         | i: from to<br>ber of bags used:     |                           |  |  |
| Well Abandonment                        | Sealing material:<br>Installation Method:                                              |                                               | _         | Depth: from to Number of bags used: |                           |  |  |
| Administrative                          | County: LAWRENCE                                                                       |                                               |           | Township: 5N Range                  |                           |  |  |
|                                         | Section: NW 1/4 of the SW                                                              | 1/4 of the SW 1/4 of Section                  | 129       |                                     | Topo map: BEDFORD EAST    |  |  |
|                                         | Field located by: JCH  Courthouse location by:  Location accepted w/o verification by: |                                               |           | on: Mon, Aug 01, 1966               |                           |  |  |
|                                         |                                                                                        |                                               |           | on:                                 |                           |  |  |
|                                         |                                                                                        |                                               |           |                                     |                           |  |  |
|                                         | Subdivision name:                                                                      |                                               |           | Lot number:                         |                           |  |  |
|                                         | Ft W of EL:                                                                            | Ft N of SL: 700                               |           | Ft E of WL: 100                     | Ft S of NL.               |  |  |
|                                         | Ground elevation: 720 0                                                                | Depth to bedrock. 2                           | 0 0       | Bedrock elevation:<br>700 0         | Aquifier elevation:       |  |  |
|                                         | UTM Easting: 548639 0                                                                  |                                               |           | UTM Northing: 4298                  | 335 0                     |  |  |
| Well Log                                | Top Bott                                                                               | om Formatio                                   | n         |                                     |                           |  |  |
|                                         | 0 0 20 0                                                                               | DIRT                                          |           |                                     |                           |  |  |
|                                         | 20 0 30 0                                                                              | BLUEL                                         | S BOULDER | S                                   |                           |  |  |
|                                         | 30 0 40 0                                                                              | BLUE LS                                       | 5         |                                     |                           |  |  |
|                                         | 40.0 75 0                                                                              | BR LS                                         |           |                                     |                           |  |  |
|                                         | 75.0 100                                                                               | 0 WHLS                                        |           |                                     |                           |  |  |
| Comments                                | MC700;                                                                                 |                                               |           |                                     |                           |  |  |

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Comments

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#### Indiana Department of Natural Resources

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|-------------------------------------------------|---------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------|--|
| Reference Number                                | Driving directions to                 | well                                                      | de Annabas et es a la la partir - unio Africa e estable - 6,04, 2 à 1444 | iguangs ( usi gumanakan man Jishandan alam dan kan man man madil m | Date completed         |  |
| 217262                                          | FROM FAYETTEVI<br>HSE ON HILL         | LLE GO E TO                                               | IST RD N GO APPROX 3 MI                                                  | TO 1ST SEEP HILL 2ND                                               | Fri, Apr 15, 1960      |  |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>ED STEELE              | <b>Addr</b> 2307                                          | ess<br>WASH AVE, BEDFORD                                                 |                                                                    | Telephone              |  |
| Drilling Contractor                             | LOUIE A SMITH                         | RI, E                                                     | BEDFORD                                                                  |                                                                    |                        |  |
| Equipment Operator                              | LOUIE A SMITH                         | Licer                                                     | nse·                                                                     |                                                                    |                        |  |
| Construction Details                            |                                       |                                                           |                                                                          |                                                                    |                        |  |
| Well                                            | Use: HOME                             | Drilli                                                    | ing method: CABLE TOOL                                                   | Pump type:                                                         |                        |  |
|                                                 | Depth: 150.0                          | Pumj                                                      | setting depth:                                                           | Water quality:                                                     |                        |  |
| Casing<br>Screen                                | Length:<br>Length:                    | Mate<br>Mate                                              |                                                                          | Diameter:<br>Diameter: Slot                                        | size:                  |  |
| Well Capacity Test                              | Type of test: Test rate: gpm for hrs. |                                                           | Test rate: gpm for hrs.                                                  | BailTest rat                                                       | e: 8 0 gpm for 2 0 hrs |  |
|                                                 | Drawdown: ft.                         |                                                           | Static water level: ft.                                                  |                                                                    |                        |  |
| Grouting Information                            | Material:                             |                                                           |                                                                          |                                                                    |                        |  |
|                                                 | Installation Method:                  |                                                           | Nu                                                                       | mber of bags used:                                                 |                        |  |
| Well Abandonment                                | Sealing material:                     |                                                           | •                                                                        | pth: from to                                                       |                        |  |
|                                                 | Installation Method:                  |                                                           | Nu                                                                       | mber of bags used:                                                 |                        |  |
| Administrative                                  | County: LAWRENCE                      |                                                           |                                                                          | Township: 6N Range:                                                |                        |  |
|                                                 |                                       | Section: NW 1/4 of the NE 1/4 of the SW 1/4 of Section 36 |                                                                          |                                                                    | Topo map: OOLITIC      |  |
|                                                 | Field located by: S&I                 |                                                           |                                                                          | on: Tue, Nov 01, 1960                                              |                        |  |
|                                                 | Courthouse location l                 | by:                                                       |                                                                          | on:                                                                |                        |  |
|                                                 | Location accepted w/o                 | verification by                                           | y:                                                                       | on:                                                                |                        |  |
|                                                 | Subdivision name:                     |                                                           |                                                                          | Lot number:                                                        |                        |  |
|                                                 | Ft W of EL:                           |                                                           | Ft N of SL: 2500                                                         | Ft E of WL: 1000                                                   | Ft S of NL:            |  |
|                                                 | Ground elevation: 76                  | 5.0                                                       | Depth to bedrock:                                                        | Bedrock elevation:                                                 | Aquifier elevation:    |  |
|                                                 | UTM Easting: 53584                    | 1 0                                                       |                                                                          | UTM Northing: 430670                                               | 08 0                   |  |
|                                                 |                                       |                                                           |                                                                          |                                                                    |                        |  |
| Vell Log                                        | Тор                                   | Bottom                                                    | Formation                                                                |                                                                    |                        |  |
| Vell Log                                        | Top<br>0 0                            | Bottom<br>9 0                                             | Formation CLAY                                                           |                                                                    |                        |  |
| Well Log                                        |                                       |                                                           |                                                                          |                                                                    |                        |  |
| Well Log                                        | 0 0                                   | 9 0                                                       | CLAY                                                                     |                                                                    |                        |  |

SOME SOFTER LIME

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| Reference Number                        | Driving directions to well                                                    | madel Manes of Anthony Confedence of the Confede | E de como es dadados. Se desses es ases açõe de asesse de                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date completed          |  |
|-----------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--|
| 217267                                  | IN 3 MILES OF FAYETTEV<br>450 AND ST HIGHWAY 54                               | ILLE 2 MILES OF SPRINGVILLE, B<br>ON REUTER LANE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ETWEEN ST HIGHWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fri, Sep 25, 1964       |  |
| Owner-Contractor                        | Name                                                                          | Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Telephone               |  |
| Well Owner                              | EDGAR W & ALURA A<br>STEELE                                                   | 2307 WASHINGTON AVE , BEDF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ORD, INDIANA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |  |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                                                         | RR 6, BEDFORD, IND.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
| Equipment Operator                      | EUGENE & CHARLES<br>UMPHRESS                                                  | License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
| Construction Details                    |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
| Well                                    | Use: HOME                                                                     | Drilling method: CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |  |
|                                         | Depth: 95 0                                                                   | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quality:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |  |
| Casing<br>Screen                        | Length:<br>Length:                                                            | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter:<br>Diameter: Slot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | cira:                   |  |
| Scieen                                  | Lengin.                                                                       | material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Diameter. Stor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3120:                   |  |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft                                                 | Test rate: gpm for hrs<br>Static water level: ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BailTest rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | e: gpm for hrs          |  |
| Grouting Information                    | Material:<br>Installation Method:                                             | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | th: from to the following the |                         |  |
| Well Abandonment                        | Sealing material:  Installation Method:  Depth: from to  Number of bags used: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
| Administrative                          | County: LAWRENCE                                                              | of the CW 1/A of Section 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Township: 6N Range: 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |  |
|                                         | Section: SW 1/4 of the NE 1/4 Field located by: JVH                           | of the 5 w 1/4 of Section 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ami Man Aug 01 1066                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Topo map: OOLITIC       |  |
|                                         | Courthouse location by:                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on: Mon, Aug 01, 1966 on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |  |
|                                         | Location accepted w/o verifica                                                | tion hy:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |  |
|                                         | Subdivision name:                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |  |
|                                         | Ft W of EL:                                                                   | Ft N of SL · 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ft E of WL: 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ft S of NL:             |  |
|                                         | Ground elevation: 725 0                                                       | Depth to bedrock:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bedrock elevation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Aquifier elevation:     |  |
|                                         | UTM Easting: 535854 0                                                         | Depin to Dearber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UTM Northing: 4306610 0 |  |
| Well Log                                | Top Bottom                                                                    | Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
| •                                       | 0 0 4 0                                                                       | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 40 90                                                                         | BLUE LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 9 0 15 0                                                                      | GRAY LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 15 0 16 0                                                                     | BROKEN LS SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 16 0 52 0                                                                     | GRAY LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 52 0 70 0                                                                     | WHITE LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 70 0 73 0                                                                     | BROKEN LS SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 73 0 79 0                                                                     | BLUE LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 79 0 82 0                                                                     | BROKEN LS SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 82 0 89 0                                                                     | WHITE LS HARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |
|                                         | 89 0 95 0                                                                     | BROKEN LS & MUI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |  |
| Comments                                | MC DRYHOLE                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |  |

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## Record of Water Well

| Reference Number                         | Driving directions to we                  | ell           |                                                      | De                                  | ate completed        |
|------------------------------------------|-------------------------------------------|---------------|------------------------------------------------------|-------------------------------------|----------------------|
| 217272                                   | SPRINGVILLE, INDIA                        | NA            |                                                      | Sa                                  | at, Mar 21, 1964     |
| Owner-Contractor Well Owner              | <i>Name</i><br>CONSTANCE LACKY            |               | idress<br>2, SPRINGVILLE                             | Te                                  | elephone             |
| Building Contractor  Drilling Contractor | EADS AND DECKARE                          | ) R           | 9, BLOOMINGTON, IND.                                 |                                     |                      |
| Equipment Operator                       | ERNEST D. EADS                            |               | cense:                                               |                                     |                      |
| Construction Details                     |                                           |               |                                                      |                                     |                      |
| Well                                     | Use: HOME                                 | Dr            | illing method: CABLE TOOL                            | Pump type:                          |                      |
|                                          | Depth: 130.0                              | Pu            | mp setting depth:                                    | Water quality:                      |                      |
| Casing<br>Screen                         | Length: 2.0<br>Length:                    |               | aterial:<br>aterial:                                 | Diameter: 6.0<br>Diameter: Slot siz | e:                   |
| Well Capacity Test                       | Type of test: Drawdown: ft.               |               | Test rate: gpm for hrs. Static water level: 93.0 ft. | BailTest rate: 1                    | 0 0 gpm for 1.0 hrs. |
| Grouting Information                     | Material:                                 |               | Dep                                                  | oth: from to                        |                      |
|                                          | Installation Method:                      |               | Nur                                                  | mber of bags used:                  |                      |
| Well Abandonment                         | Sealing material:<br>Installation Method: |               | •                                                    | oth: from to<br>mber of bags used:  |                      |
| Administrative                           | County: LAWRENCE                          |               |                                                      | Township: 6N Range: 2W              |                      |
|                                          | Section: SW 1/4 of the N                  | NE 1/4 of the | he SW 1/4 of Section 36                              |                                     | Topo map: OOLITIC    |
|                                          | Field located by: JRS                     |               |                                                      | on: Tue, Aug 08, 1978               |                      |
|                                          | Courthouse location by:                   |               |                                                      | on:                                 |                      |
|                                          | Location accepted w/o v                   | erification   | by:                                                  | on:                                 |                      |
|                                          | Subdivision name:                         |               |                                                      | Lot number:                         |                      |
|                                          | Ft W of EL:                               |               | Ft N of SL: 1850                                     | Ft E of WL: 1450                    | Ft S of NL:          |
|                                          | Ground elevation: 730.0                   | )             | Depth to bedrock: 4.0                                | Bedrock elevation: 726 0            | Aquifier elevation:  |
|                                          | UTM Easting: 535848.0                     | 1             |                                                      | UTM Northing: 4306616 (             | )                    |
| Well Log                                 | Top E                                     | Bottom        | Formation                                            |                                     |                      |
|                                          | 0.0                                       | 1.1           | CLAY                                                 |                                     |                      |
|                                          | 41 1                                      | 05 0          | HARD LIMESTON                                        | E                                   |                      |
|                                          | 105 0                                     | 30.0          | SLAPSTONE                                            |                                     |                      |
| Comments                                 | MC 726: MC: OWNED I                       | /EDIEIED      | / 10 FT. NW OF HOUSE;                                |                                     |                      |

in Department of Natural Accounted

#### Record of Water Well

242

MC680

Comments

| Reference Number                          | Driving directions to well   | The second of th | ··· Process overlating that Page 1 | Date completed          |  |  |
|-------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------|--|--|
| 217241                                    | LOCATED AT NEEDMOR           | Thu, Jul 14, 1960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |                         |  |  |
| <i>Owner-Contractor</i><br>Well Owner     | <i>Name</i><br>GAROLD TURNER | <i>Address</i><br>RR 2 BEDFORD IND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    | Telephone               |  |  |
| Building Contractor                       | ERNIE UMPHRESS & SON         | NS RR 6 BOX 13 BEDFORD IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | n                                  |                         |  |  |
| Drilling Contractor<br>Equipment Operator | ERNIE UMPHRESS               | License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                         |  |  |
| Construction Details                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                         |  |  |
| Weil                                      | Use: HOME                    | Drilling method: CABLE TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OL Pump type.                      |                         |  |  |
|                                           | Depth: 166 0                 | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water qualit                       | y <i>:</i>              |  |  |
| Casing<br>Screen                          | Length: 56 5<br>Length:      | Material:<br>Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Diameter 6<br>Diameter. Sl         |                         |  |  |
| Well Capacity Test                        | Type of test:                | Test rate: gpm for hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    | rate. 10 gpm for 10 hrs |  |  |
|                                           | Drawdown: ft                 | Static water level: 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 ft                               |                         |  |  |
| Grouting Information                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to                     |                         |  |  |
|                                           | Installation Method:         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used                | lumber of bags used     |  |  |
| Well Abandonment                          | Sealing material:            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to                     |                         |  |  |
|                                           | Installation Method:         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used                |                         |  |  |
| Administrative                            | County: LAWRENCE             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township: 6N Range                 | ·· IW                   |  |  |
|                                           | Section. SE 1/4 of the SW 1. | /4 of the NW 1/4 of Section 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    | Topo map OOLITIC        |  |  |
|                                           | Field located by: S&H        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on Tue Nov 01 196                  | 0                       |  |  |
|                                           | Courthouse location by:      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on.                                |                         |  |  |
|                                           | Location accepted w/o verif  | cation by.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | on                                 |                         |  |  |
|                                           | Subdivision name:            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number                         |                         |  |  |
|                                           | Ft W of EL:                  | Ft N of SL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ft E of WL 1100                    | Ft S of NL: 3000        |  |  |
|                                           | Ground elevation: 700 0      | Depth to bedrock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Bedrock elevation                  | Aquifier elevation:     |  |  |
|                                           | UTM Easting: 540648 0        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing 4308                  | 606 0                   |  |  |
| Well Log                                  | Гор Вош                      | om Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                         |  |  |
| -                                         | 0 0 20 0                     | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                         |  |  |
|                                           | 20 0 53 0                    | SHALIE LS &                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MUD                                |                         |  |  |
|                                           | 53 0 70 0                    | BLUE LS HAI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RD                                 |                         |  |  |
|                                           | 70.0                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                         |  |  |

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| Reference Number                        | Driving directions to                     | o well      | p do said the division                           | and the second s | Date completed        |  |
|-----------------------------------------|-------------------------------------------|-------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|
| 217246                                  | 2 BLOCKS E OF US                          | S HWY 37    | NEEDMORE, IN                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Wed, May 04, 1960     |  |
| Owner-Contractor<br>Well Owner          | <i>Name</i><br>HENRY GOODMA               |             | <i>Address</i><br>RR3, BEDFORD, IN               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Telephone             |  |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS                            | & SONS      | BEDFORD, IN                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |  |
| Equipment Operator                      | ERNIE UMPHRESS                            |             |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |  |
| Construction Details                    |                                           |             |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |  |
| Well                                    | Use: HOME                                 |             | Drilling method: CABLE TOO                       | L Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |  |
|                                         | Depth: 140 0                              |             | Pump setting depth:                              | Water quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |  |
| Casing<br>Screen                        | Length: 37 5<br>Length:                   |             | Material:<br>Material:                           | Diameter: 6 0<br>Diameter: Slo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |  |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft             |             | Test rate gpm for hrs<br>Static water level. 700 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ue. 05 gpm for 10 hrs |  |
| Grouting Information                    | Material.<br>Installation Method:         | :           |                                                  | Depth. from to Number of bags used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |  |
| Well Abandonment                        | Sealing material:<br>Installation Method: | :           |                                                  | Depth. from to Number of bags used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |  |
| Administrative                          | County LAWRENC                            | E           |                                                  | Township: 6N Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - 1W                  |  |
|                                         | Section SE 1/4 of th                      | e SE 1/4 of | the NW 1/4 of Section 28                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Topo map OOLITIC      |  |
|                                         | Field located by: BARNES                  |             |                                                  | on: Fn, Jul 01, 1960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |  |
|                                         | Courthouse location by:                   |             |                                                  | on·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |  |
|                                         | Location accepted w/o verification by     |             |                                                  | on·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |  |
|                                         | Subdivision name:                         |             |                                                  | Lot number.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |  |
|                                         | Ft W of EL. 3100                          |             | Ft N of SL. 2800                                 | Ft E of WL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ft S of NL:           |  |
|                                         | Ground elevation: 68                      | 80 0        | Depth to bedrock                                 | Bedrock elevation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Aquifier elevation:   |  |
|                                         | UTM Easting. 54094                        | 110         |                                                  | UTM Northing: 4308.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 545 0                 |  |
| Well Log                                | Тор                                       | Bottom      | Formation                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |  |
|                                         | 0 0                                       | 120         | DIRT                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |  |
|                                         | 120                                       | 15 0        | LS BOULDERS                                      | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |  |
|                                         | 15 0                                      | 34 0        | BLUE LS & MU                                     | UD HOLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |  |
|                                         | 34 0                                      | 50 0        | BLUE I S HARI                                    | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |  |
|                                         | 50 0                                      | 75 0        | WHTIF LS SOF                                     | <del>-</del> L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |  |
|                                         | 75 0                                      | 80 0        | BLUE I S HARI                                    | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |  |
|                                         | 80 0                                      | 1400        | WHITE I S SOF                                    | т                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |  |
| Comments                                | МС                                        |             |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |  |

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Record of Water Well

| Reference Number                        | Driving directions to we                | I                                 | rate dustries garante gas a sugar | Date completed       |
|-----------------------------------------|-----------------------------------------|-----------------------------------|-----------------------------------|----------------------|
| 217251                                  | WELL WAS DRILLED                        | DEEPER WELL IS LOCATED IN         | NEEDMORE                          | Wed Jul 15 1959      |
| Owner Contractor Well Owner             | <i>Name</i><br>FRED DAVIS               | <i>Address</i><br>RR #4 BEDFORD   |                                   | Telephone            |
| Building Contractor Drilling Contractor | WINFRED PHILLIPS                        | RR #5 BEDFORD IND                 |                                   |                      |
| Equipment Operator                      | WINFRED PHILLIPS                        | License                           |                                   |                      |
| Construction Details                    |                                         |                                   |                                   |                      |
| Weil                                    | Use HOME                                | Drilling method CABLE?            | FOOL Pump type                    |                      |
|                                         | Depth 150 0                             | Pump setting depth                | Water quality                     |                      |
| Casing<br>Screen                        | Length<br>Length                        | Material<br>Material              | Diameter 5 6<br>Diameter Slo      |                      |
| Well Capacity Test                      | Type of test                            | Test rate gpm for l               | us BailTest ra                    | ue 10 gpm for 10 hrs |
|                                         | Drawdown ft                             | Static water level                | 53 0 ft                           |                      |
| Grouting Information                    | Material<br>Installation Method         |                                   | Depth from to Number of bags used |                      |
| Vell Abandonment                        | Sealing material<br>Installation Method |                                   | Depth from to Number of bags used |                      |
| dministrative                           | County LAWRENCE                         |                                   | Township 6N Range                 |                      |
|                                         |                                         | / 1/4 of the NW 1/4 of Section 28 |                                   | Topo map OOLITIC     |
|                                         | Field located by BARNE                  | S                                 | on Fn Jul 01 1960                 |                      |
|                                         | Courthouse location by                  |                                   | on                                |                      |
|                                         | Location accepted w/o ver               | ification by NO                   | on                                |                      |
|                                         | Subdivision name                        |                                   | Lot number                        |                      |
|                                         | Ft W of EL                              | Ft N of SL 2800                   | Ft E of WL. 800                   | It S of VL           |
|                                         | Ground elevation 700 0                  | Depth to bedrock                  | Bedrock elevation                 | Aquifier elevation   |
|                                         | UTM Easting 540526 0                    |                                   | UTM Northing 43085                | 02 0                 |
| Vell Log                                | Тор Во                                  | ttom Formation                    |                                   |                      |
|                                         | 0 0 90                                  | 0 BLANK                           |                                   |                      |
|                                         | 90 0 15                                 | 0 SOFT GRAY                       | LIME                              |                      |
| omments                                 | MC DRILLED WELL DE                      | PDL D                             |                                   |                      |

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## Record of Water Well

| Reference Number                                | Driving directions to we                   | ell                    | tome to resonance to the                     | ia anaren mar unter en en en en e       | Date completed                                                                     |
|-------------------------------------------------|--------------------------------------------|------------------------|----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|
| 217256                                          | APP 1/4 MI S OF NEED                       | OMORE IND & O          | ON E SIDE OF SR37                            |                                         | Wed, Dec 06, 1961                                                                  |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>JAMES HORNOCKER             | Address                |                                              |                                         | Telephone                                                                          |
| Drilling Contractor                             | ERNIE UMPHRESS & S                         | SONS RR 6 BED          | FORD IND                                     |                                         |                                                                                    |
| Equipment Operator                              | ERNIE UMPHRESS & S                         | SONS License           |                                              |                                         |                                                                                    |
| Construction Details                            |                                            |                        |                                              |                                         |                                                                                    |
| Well                                            | Use· HOME                                  | Drilling m             | ethod CABLE TOOL                             | Pump type                               |                                                                                    |
|                                                 | Depth: 169 0                               | Pump setti             | ing depth:                                   | Water quality                           | :                                                                                  |
| Casing<br>Screen                                | Length:<br>Length                          | Material:<br>Material: |                                              | Diameter: 60<br>Diameter: Slo           |                                                                                    |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft              |                        | st rate: gpm for hrs<br>atic water level: ft | BailTest ra                             | tte: 15 0 gpm for hrs                                                              |
| Grouting Information                            | Material:<br>Installation Method:          |                        | -                                            | pth- from to<br>mber of bags used.      |                                                                                    |
| Well Abandonment                                | Sealing material ·<br>Installation Method: |                        | -                                            | pth· from to<br>mber of bags used.      |                                                                                    |
| Administrative                                  | County LAWRENCE<br>Section SW 1/4 of the N | IW 1/4 of the SE I     | /4 of Section 28                             | Township: 6N Range                      | · IW  Topo map. OOLITIC                                                            |
|                                                 | Field located by. JCH                      |                        |                                              | on Mon, Aug 01, 196                     | 6                                                                                  |
|                                                 | Courthouse location by:                    |                        |                                              | on                                      |                                                                                    |
|                                                 | Location accepted w/o vi                   | erification by         |                                              | on·                                     |                                                                                    |
|                                                 | Subdivision name                           |                        |                                              | Lot number.                             |                                                                                    |
|                                                 | Ft W of EL 2500                            | F                      | t N of SL: 1700                              | Ft E of WL:                             | Ft S of NL.                                                                        |
|                                                 | Ground elevation 640 0                     | D                      | epth to bedrock.                             | Bedrock elevation                       | Aquifier elevation                                                                 |
|                                                 | UTM Easting 541148 0                       |                        |                                              | UTM Northing 4308                       | 174 0                                                                              |
| Well Log                                        | Тор В                                      | Bottom                 | Formation                                    |                                         |                                                                                    |
|                                                 | 0 0 4                                      | 0                      | DIRT                                         |                                         |                                                                                    |
|                                                 | 4 0 2                                      | 7 0                    | BLUE LS HARD                                 |                                         |                                                                                    |
|                                                 | 27 0 8                                     | 5 0                    | WH LS SOFT                                   |                                         |                                                                                    |
|                                                 | 85 0                                       | 55 0                   | BLUE LS HARD                                 |                                         |                                                                                    |
|                                                 | 155 0 1                                    | 69 0                   | BR LS SOFT                                   |                                         |                                                                                    |
| Comments                                        | MC635                                      | -                      | months and an extensive buildings of the     | when property will be a made well about | Ministration of the Managament base of the San |



| Reference Number                        | Driving directions                      | to well           | CA MANUARMAN M DA TA E AMAN A                  |       | D                                  | ate completed      |
|-----------------------------------------|-----------------------------------------|-------------------|------------------------------------------------|-------|------------------------------------|--------------------|
| 217261                                  | NEAR NEEDMORE ON HIGHWAY 37 S           |                   |                                                |       | Sa                                 | at Aug 18 1962     |
| Owner-Contractor Well Owner             | <i>Name</i><br>JOE ROBERTS              |                   | dress<br>DFORD RR 3                            |       | Te                                 | lephone            |
| Building Contractor Drilling Contractor | FLOYD STULTZ                            | BE                | DFORD IND RR 4 BOX                             | 72    |                                    |                    |
| Equipment Operator                      | FLOYD STULTZ                            | Lic               | ense                                           |       |                                    |                    |
| Construction Details                    |                                         |                   |                                                |       |                                    |                    |
| Well                                    | Use HOME                                | Dri               | lling method                                   |       | Pump type                          |                    |
|                                         | Depth 105 0                             | Pur               | mp setting depth                               |       | Water quality                      |                    |
| Casing<br>Screen                        | Length 90<br>Length                     |                   | terial<br>terial                               |       | Diameter 60<br>Diameter, Slot size | ?                  |
| Well Capacity Test                      | Type of test<br>Drawdown fi             |                   | Test rate gpm for 8 0<br>Static water level 40 |       | BailTest rate 2                    | 0 gpm for hrs      |
| Grouting Information                    | Material                                |                   |                                                | Denth | from to                            |                    |
| orozania injermiza                      | Installation Method                     | !                 |                                                | •     | er of bags used                    |                    |
| Well Abandonment                        | Sealing material<br>Installation Method | ,                 |                                                |       | from to<br>er of bags used         |                    |
| Administrative                          | County LAWRENC                          |                   |                                                |       | Township 6N Range 1W               |                    |
|                                         | Section NW 1/4 of                       | the SW 1/4 of the | he SE 1/4 of Section 28                        |       |                                    | Topo map OOLITIC   |
|                                         | Field located by JC                     | Н                 |                                                |       | on Mon Aug 01 1966                 |                    |
|                                         | Courthouse location                     | ı by              |                                                |       | on                                 |                    |
|                                         | Location accepted w                     | lo verification   | by                                             |       | on                                 |                    |
|                                         | Subdivision name                        |                   |                                                |       | Lot number                         |                    |
|                                         | Ft W of EL 2400                         |                   | Ft N of SL. 800                                |       | Ft E of WL                         | Ft S of NL         |
|                                         | Ground elevation 6                      | 40 0              | Depth to bedrock                               |       | Bedrock elevation 6300             | Aquifier elevation |
|                                         | UTM Easting 54119                       | 92 0              |                                                |       | UTM Northing 4307912.0             |                    |
| Well Log                                | Тор                                     | Bottom            | Formation                                      |       |                                    |                    |
|                                         | 0 0                                     | 8 0               | CLAY                                           |       |                                    |                    |
|                                         | 8 0                                     | 78 ()             | SOFT LS                                        |       |                                    |                    |
|                                         | 78 0                                    | 1130              | HARD LS                                        |       |                                    |                    |
| Comments                                | MC 63P1_6 9558                          |                   |                                                |       |                                    |                    |

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#### Record of Water Well

| Owner Contractor Well Owner Belloting Contractor Drilling Material Drilling method Pump type Depth 120 0 Pump setting depth Water quality Drilling Material Drilling method Drilling Secretion Secretion United Secretion Drilling method Drilling Secretion Drilling Material Drilling Material Drilling Material Installation Method Number of bags used  Well Capacity Test  Vell Capacity Test Drawdown ft Static water level ft  Grouting Information Material Installation Method Number of bags used  Well Abandonment Sealing material Installation Method Number of bags used  Vell Abandonment Sealing material Installation Method Number of bags used  Vell Abandonment Depth from to Number of bags used  Topo map OOLITIC On Mon Aug 01 1966 UTW Lasting "19477 0 UTM Northing 4308616 0  Well Log Top Bottom Formation On 180 CLAY 180 1200 SOFT LS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reference Number     | Driving directions to w | vell           |                        |                    | Date completed       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|----------------|------------------------|--------------------|----------------------|
| Well Owner ORVILLE ARTHUR BEDFORD RR 3 Building Contractor Drilling Contractor Drilling Contractor FLOYD STULTZ Equipment Operator FLOYD STULTZ License  Construction Details Well Use HOME Drilling method Pump /ppe Depth 120 0 Pump setting depth Water quality Depth 120 0 Material Diameter 6 0 Diameter Slot size  Well Capacity Test Type of test Drawdown it Static water level it  Grouting Information Material Depth from 10 Installation Method Number of bags used  Well Abandonment Sealing material Installation Method Number of bags used  Administrative County LAWRENCE Township 6N Range 1W Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28 Field located by JCH On Mon Aug 01 1966 Courthouse location by On Location accepted w/o verification by Subdivision name Fit W of EL Fit N of SL Fit E of WL 650 Fit S of NL 2100 UTW Lasting 1901 18 0 CLAY  Well Log Top Bottom Formation  Well Log  Top Bottom Formation  Depth formation Pump /ppe Well Log  Pump /ppe Pu | 217266               | NEEDMORE IND            |                |                        |                    | Tue Apr 04 1961      |
| Equipment Operator  Equipment Operator  FLOYD STULTZ  Equipment Operator  FLOYD STULTZ  License  Construction Details  Well  Use HOME  Depth 1200  Pump setting depth  Depth 1200  Pump setting depth  Material  Diameter 60  Diameter 5lot size  Well Capacity Test  Type of test  Drawdown ft  Static water level ft  Crouting Information  Material  Installation Method  Mell Abandonment  Sealing material  Installation Method  Momber of bags used  Administrative  County LAWRENCE  Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28  Field located by JCH  Courthouse location by  Location accepted w/o verification by  Subdivision name  FI W of EL  Ground elevation 710 0  Depth to bedrock  Depth to moment  Depth firm to  Number  Fired of Mange 1W  Socious 28  Topo map OOLITIC  Fired of Lawrence  Lat number  Fired of Lawrence  Fired of Lawrence  Lat number  Fired of Manger elevation  UTM Northing 43086360                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Well Owner           |                         |                |                        |                    | Telephone            |
| Construction Details  Well Use HOME Drilling method Pump type  Depth 1200 Pump setting depth Water quality  Length 180 Material Diameter 60  Construction Length 180 Material Diameter 500 size  Well Capacity Test Type of test Test rate gpm for hirs  Drawdown ft Static water level ft  Grouting Information Material Depth from to  Installation Method Number of bags used  Well Abandonment Sealing material Installation Method Number of bags used  Administrative County LAWRENCE Topo map OOLITIC  Field located by JCH On Mon Aug 01 1966  Courthouse location by On  Location accepted w/o verification by On  Subdivision name Lot number  Fi W of EL Fi N of SL Fi E of WL 650 Fi S of NL 2100  Ground elevation 710 0 Depth to bedrock Bedrock elevation Aquifier elevation  UTM Lasting >40477 0 UTM Northing 4308636 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | FLOYD STULTZ            | BEI            | DFORD IND RR 4 BOX 72  |                    |                      |
| Well Use HOME Depth 120 0 Pump setting depth Water quality Casing Length 180 Material Diameter 6 0 Length Material Diameter 5lot size  Well Capacity Test Type of test Test rate gpm for his Drawdown ft Static water level ft  Grouting Information Material Depth from to Number of bags used  Well Abandonment Sealing material Installation Method Number of bags used  Administrative County LAWRENCE Township 6N Range 1W Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28 Topo map OOLITIC Field located by JCH On Mon Aug 01 1966 Courthouse location by On Location accepted w/o verification by Subdivision name Fit W of EL Fit N of SL Fit E of WL 650 Fit S of NL 2100 Ground elevation 710 0 Depth to bedrock Bedrock elevation Aquifier elevation UTM Easting 140477 0 UTM Northing 14308636 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Equipment Operator   | FLOYD STULTZ            | Lice           | nse                    |                    |                      |
| Depth 120 0 Pump setting depth Water quality Length 18 0 Material Diameter 6 0 Length Material Diameter 6 0 Number of test Static water level ft  Depth from to Number of bags used  Material Depth from to Number of bags used  Material Number of bags used  Administrative County LAWRENCE Township 6N Range 1W Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28 Field located by JCH Courthouse location by Location accepted w/o verification by Subdivision name Fit W of EL Ground elevation 710 0 Depth to bedrock UTM Lasting ~40477 0  Depth to bedrock UTM Northing 4308636 0  Pump setting depth Water quality Diameter 6 0 Diameter 6 0 Diameter 60 Diameter 60 Diameter 60 Diameter 60 Depth from to Number of bags used  Depth from to Number of bags used  Township 6N Range 1W Topo map OOLITIC on Mon Aug 01 1966 on Location accepted w/o verification by on Location accepted w/o verification by UTM Lasting ~40477 0 UTM Northing 4308636 0  Vell Log  Top Bottom Formation O CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Construction Details |                         |                |                        |                    |                      |
| Casing Screen  Length 18.0 Length Material Material  Material Material  Type of test Drawdown fit  Static water level fit  Depth from to Number of bags used  Mell Abandonment  Sealing maierial Installation Method  Mumber of bags used  Mell Abandonment  Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28 Field located by JCH  Courthouse location by Location accepted w/o verification by Subdivision name Fit W of EL Ground elevation 710 0 Depth to bedrock Depth to bedrock Depth to bedrock Bedrock elevation Depth to page 1W  Topo map OOLITIC  Fit E of WL 650 Fit S of NL 2100  Ground elevation 710 0 Depth to bedrock DUTM Northing 4308636 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Well                 | Use HOME                | Dril           | ling method            | Pump type          |                      |
| Screen  Length  Material  Test rate gpm for hrs Drawdown fit  Static water level fit  Static water level fit  Depth from to Number of bags used  Well Abandonment  Sealing material Installation Method  Material Installation Method  Depth from to Number of bags used  Material Installation Method  Mumber of bags used  Topo map OOLITIC  Field located by JCH Courthouse location by Location accepted w/o verification by Subdivision name Fit W of EL Ground elevation 710 0 Depth to bedrock UTM Easting \( \frac{1}{2} \) 00000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | Depth 120 0             | Pun            | ip setting depth       | •                  |                      |
| Well Capacity Test  Type of test Drawdown ft  Test rate gpm for his Static water level ft  Depth from to Number of bags used  Depth from to Number of bags used  Depth from to Number of bags used  Administrative  County LAWRENCE Section SW 1/4 of the SW 1/4 of Section 28 Field located by JCH Courthouse location by Location accepted w/o verification by Subdivision name Fit W of EL Ground elevation 710 0 Depth to bedrock UTM Lasting >40477 0  Well Log  Depth from to Number of bags used  Township 6N Range 1W Topo map OOLITIC on Mon Aug 01 1966 on On Lot number Fit E of WL 650 Fit S of NL 2100 UTM Northing 4308636 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |                         |                |                        |                    | t r                  |
| Drawdown ft  Static water level ft  Depth from to Number of bags used  Well Abandonment  Sealing material Installation Method  Number of bags used  Depth from to Number of bags used  Administrative  County LAWRENCE Township 6N Range IW  Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28  Field located by JCH on Mon Aug 01 1966  Courthouse location by on Location accepted w/o verification by  Subdivision name Lot number  Fi W of EL Fi N of SL. Fi E of WL 650 Fi S of NL 2100  Ground elevation 710 0 Depth to bedrock Bedrock elevation Aquifier elevation  UTM Lasting 540477 0 UTM Northing 4308636 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Screen               | Lengin                  | Mai            | eriai                  | Diameter 310       | 1 Size               |
| Material Installation Method Number of bags used  Well Abandonment Sealing material Installation Method Number of bags used  Administrative County LAWRENCE Township 6N Range 1W Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28 Field located by JCH on Mon Aug 01 1966 Courthouse location by on Location accepted w/o verification by Subdivision name Lot number Fit W of EL Fit N of SL. Fit E of WL 650 Fit S of NL 2100 Ground elevation 710 0 Depth to bedrock Bedrock elevation Aquifier elevation UTM Easting \( \frac{1}{2} \) 40477 0  Well Log \( \frac{1}{2} \) Bottom Formation  \[ \frac{1}{2} \) O CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Well Capacity Test   | Type of test            |                | Test rate gpm for hrs  | BailTest ra        | te 08 gpm for 80 hrs |
| Installation Method  Sealing material Installation Method  Administrative  County LAWRENCE Section 5W 1/4 of the SW 1/4 of the NW 1/4 of Section 28 Topo map OOLITIC  Field located by JCH on Mon Aug 01 1966  Courthouse location by on  Location accepted w/o verification by on  Subdivision name Lot number  Fi W of EL Fi N of SL. Fi E of WL 650 Fi S of NL 2100  Ground elevation 710 0 Depth to bedrock Bedrock elevation Aquifier elevation  UTM Lasting 540477 0 UTM Northing 4308636 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      | Drawdown ft             |                | Static water level ft  |                    |                      |
| Nell Abandonment  Sealing material Installation Method  Administrative  County LAWRENCE Township 6N Range 1W Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28 Field located by JCH on Mon Aug 01 1966  Courthouse location by on Location accepted w/o verification by Subdivision name Fit W of EL Fit N of SL. Fit E of WL 650 Fit S of NL 2100  Ground elevation 710 0 Depth to bedrock Bedrock elevation Aquifier elevation UTM Lasting \( \frac{1}{2} \) 40477 0  Well Log  Top Bottom Formation  O 18 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Grouting Information | Material                |                | De                     | pth from to        |                      |
| Installation Method  County LAWRENCE Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28 Field located by JCH Courthouse location by Location accepted w/o verification by Subdivision name Fi W of EL Ground elevation 710 0 Ground elevation 710 0 Depth to bedrock UTM Easting N40477 0  Well Log  Top Bottom Formation  County LAWRENCE Fownship 6N Range 1W Formation  Top Bottom Formation  CUTM Northing 4308636 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      | Installation Method     |                | Nu                     | mber of bags used  |                      |
| County LAWRENCE Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28  Field located by JCH Courthouse location by Location accepted w/o verification by Subdivision name Fit W of EL Ground elevation 710 0 Depth to bedrock UTM Easting >40477 0  Vell Log  Topo map OOLITIC Topo | Vell Abandonment     | Sealing material        |                | De                     | pth from to        |                      |
| Section SW 1/4 of the SW 1/4 of the NW 1/4 of Section 28  Field located by JCH  Courthouse location by  Location accepted w/o verification by  Subdivision name  Fit W of EL  Ground elevation 710 0  Depth to bedrock  UTM Lasting >40477 0  Top  Bottom  Formation  O 0 18 0  CLAY  Topo map OOLITIC  Topo |                      | Installation Method     |                | Nu                     | amber of bags used |                      |
| Field located by JCH on Mon Aug 01 1966  Courthouse location by on  Location accepted w/o verification by on  Subdivision name Lot number  Fit W of EL Fit N of SL. Fit E of WL 650 Fit S of NL 2100  Ground elevation 710 0 Depth to bedrock Bedrock elevation Aquifier elevation  UTM Easting >40477 0 UTM Northing 4308636 0  Well Log Top Bottom Formation  0 0 18 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Administrative       | County LAWRENCE         |                |                        | Township 6N Range  | ıw                   |
| Courthouse location by Location accepted w/o verification by  Subdivision name  Fit W of EL  Ground elevation 710 0  UTM Easting 540477 0  Top  Bottom  Formation  0 0  18 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      | Section SW 1/4 of the   | SW 1/4 of th   | e NW 1/4 of Section 28 |                    | Topo map OOLITIC     |
| Location accepted w/o verification by  Subdivision name  Fit W of EL  Ground elevation 710 0  Depth to bedrock  UTM Lasting 540477 0  Well Log  Top  Bottom  Formation  0 0  18 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | _                       |                |                        | on Mon Aug 01 196  | 6                    |
| Subdivision name  Fit W of EL  Ground elevation 710 0  UTM Easting 340477 0  Top  Bottom  Formation  0 0  18 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | -                       |                |                        | on                 |                      |
| Ft W of EL  Ground elevation 710 0  Depth to bedrock  UTM Lasting >40477 0  Well Log  Top  Bottom  Formation  0 0  18 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      | Location accepted w/o   | verification l | by                     | on                 |                      |
| Ground elevation 710 0 Depth to bedrock Bedrock elevation Aquifier elevation  UTM Easting 540477 0 UTM Northing 4308636 0  Well Log Top Bottom Formation  0 0 18 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                         |                |                        |                    |                      |
| UTM Easting         540477 0         UTM Northing         4308636 0           Well Log         Top         Bottom         Formation           0 0         18 0         CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      | •                       |                | •                      | •                  | •                    |
| Well Log Top Bottom Formation 0 0 18 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                         |                | Depth to bedrock       |                    | • -                  |
| 0 0 18 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      | UTM Easting >40477      | 0              |                        | UTM Northing 43086 | 536 U                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Vell Log             | Тор                     | Bottom         | Formation              |                    |                      |
| 18 0 120 0 SOFT LS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      | 0 0                     | 18 0           | CLAY                   |                    |                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | 0.81                    | 120 0          | SOFT LS                |                    |                      |

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#### Record of Water Well

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#### Indiana Department of Natural Resources

Reference Number Driving directions to well Date completed 217271 WELL WAS DRILLED IN NEEDMORE AT THE BAPTIST CHURCH Tue, Jul 28, 1959 Owner-Contractor Name Address Telephone BAPTIST CHURCH RR #4 BEDFORD IND Well Owner **Building Contractor** Drilling Contractor WINFRED PHILLIPS RR #5 BEDFORD IND WINFRED PHILLIPS Equipment Operator License Construction Details Well Use: HOME Drilling method: CABLE TOOL Pump type Depth: 200 0 Pump setting depth: Water quality: Length. 190 Material: Diameter: 5 62 Casing Material: Diameter: Slot size: Screen Length: Well Capacity Test Type of test: Test rate: gpm for hrs BailTest rate: 5 0 gpm for 1 0 hrs Drawdown. ft Static water level: 75 0 ft Grouting Information Material. Depth: from to Installation Method. Number of bags used: Well Abandonment Sealing material. Depth: from to Installation Method: Number of bags used: Administrative County. LAWRENCE Township 6N Range: 1W Section NW 1/4 of the NE 1/4 of the SW 1/4 of Section 28 Topo map OOLITIC Field located by: BARNES on Fri Jul 01, 1960 Courthouse location by: on: Location accepted w/o verification by: on. Subdivision name: Lot number Ft W of EL: Ft N of SL: 2100 Ft E of WL. 800 Ft S of VL Ground elevation. 690 0 Depth to bedrock. Bedrock elevation Aquifier elevation UTM Easting 540837 0 UTM Northing 4308314 0 Bottom Formation Top Well Log 0.0 140 RED CLAY 140 160 LS 190 16.0 BLUE SH 190 57 0 **BLUE HARD LIME** 570 700 **GRAY HARD LIME** 70 () 76 0 **BLUE SH** 76 0 850 HARD BLUE LIME 850 1450 SOFT GRAY LIME 145 0 165.0 VERY HARD WH LIME 200 0 165 0 HARD BLUE LIME Comments

#### Record of Water Well

| Reference Number                        | Driving directions to well                      | THE PERSON OF A PROPERTY OF THE PERSON OF TH | Martin at Martin 19 (M. 18) (1) (M. 18) | Date completed                                |
|-----------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 217276                                  | .5 MI N OF AVOCA ON HA<br>NW SW SEC 29 TW 6 R 5 | ARROWSBURG RD LOCATED (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ON NW CORNER OF PLOT PT                                                                                         | Sat, Jun 01, 1963                             |
| Owner-Contractor Well Owner             | <i>Name</i><br>MURLE HOSTETTER                  | Address<br>RR2, SPRINGVILLE, IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 | Telephone                                     |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SON                            | IS BEDFORD, IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |                                               |
| Equipment Operator                      | EUGENE & CHARLES<br>UMPHRESS                    | License:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                 |                                               |
| Construction Details                    |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                                               |
| Well                                    | Use: HOME                                       | Drilling method: CABLE TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OL Pump type:                                                                                                   |                                               |
|                                         | Depth: 175.0                                    | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quality:                                                                                                  |                                               |
| Casing<br>Screen                        | Length: 78 0<br>Length:                         | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter: 6 0<br>Diameter: Slot                                                                                 | size:                                         |
| Well Capacity Test                      | Type of test: Drawdown: ft.                     | Test rate: gpm for hrs. Static water level: 73 (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 | e: 0 4 gpm for hrs.                           |
|                                         |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                                               |
| Grouting Information                    | Material:                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to                                                                                                  |                                               |
|                                         | Installation Method:                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used:                                                                                            |                                               |
| Well Abandonment                        | Sealing material:<br>Installation Method:       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to Number of rays used:                                                                             |                                               |
| Administrative                          | County: LAWRENCE Section: NW 1/4 of the SW 1    | 1/4 of the SW 1/4 of Section 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township: 6N Range:                                                                                             | 1W  Topo map: OOLITIC                         |
|                                         | Field located by: JCA                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on: Mon, Aug 01, 1966                                                                                           | <b>,</b>                                      |
|                                         | Courthouse location by:                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                                                                                                             |                                               |
|                                         | Location accepted w/o verifi                    | cation by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | on:                                                                                                             |                                               |
|                                         | Subdivision name:                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number:                                                                                                     |                                               |
|                                         | Ft W of EL:                                     | Ft N of SL: 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ft E of WL: 100                                                                                                 | Ft S of NL:                                   |
|                                         | Ground elevation: 610 0                         | Depth to bedrock:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bedrock elevation: 580                                                                                          | -                                             |
|                                         | UTM Easting: 538735 0                           | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UTM Northing: 43079                                                                                             |                                               |
| Well Log                                | Top Botto                                       | om Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |                                               |
|                                         | 0 0 32 0                                        | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                 |                                               |
|                                         | 32 0 75 0                                       | MUD HOLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | & BROKEN STONE                                                                                                  |                                               |
|                                         | 75 0 96 0                                       | BLUE LS HAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | D                                                                                                               |                                               |
|                                         | 96 0 108 0                                      | GRAY LS HAF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RD.                                                                                                             |                                               |
|                                         | 108 0 134.0                                     | WHITE LS SO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FT                                                                                                              |                                               |
|                                         | 134 0 140 0                                     | BLUE LS HAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | .D                                                                                                              |                                               |
|                                         | 140 0 175 0                                     | WHITE LS SO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FT                                                                                                              |                                               |
| Comments                                | MC 580                                          | ***************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                 | manufacture of a series was trape of a series |

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#### Record of Water Well

| Reference Number                         | Driving directions to well                                                              |                                            | yan san dar dak di kumi din n                        | Date completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 217281                                   | CENTE ROF THE SW 1/4 OF NW 1/4 OF N3 1/4 5 MI W OF MARSHALL TWP SCHOOL Wed, Jul 18 1962 |                                            |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Owner-Contractor<br>Well Owner           | <i>Name</i><br>DEAN PENNINGTON                                                          | Address<br>RR4, BFDFORD, IN                |                                                      | Telephone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| Building Contractor  Drilling Contractor | ERNIE UMPHRESS & SONS                                                                   | BEDFORD, IN                                |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Equipment Operator                       | EUGENE & CHARLES<br>UMPHRESS                                                            | License                                    |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Construction Details                     |                                                                                         |                                            |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Well                                     | Use: HOME                                                                               | Drilling method · CABLE TOOL               | Pump type:                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | Depth 162 0                                                                             | Pump setting depth                         | Water quality.                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Casing<br>Screen                         | Length: 103 0<br>Length:                                                                | Material:<br>Material:                     | Diameter: 6 0<br>Diameter: Slo                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Well Capacity Test                       | Type of test                                                                            | Test rate: gpm for hrs                     |                                                      | ue· 3 0 gpm for hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                          | Drawdown: ft                                                                            | Static water level: 102 0                  | ft                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Grouting Information                     | Material.                                                                               | D                                          | Depth: from to                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | Installation Method                                                                     | Λ                                          | lumber of bags used:                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Well Abandonment                         | Sealing material:                                                                       | D                                          | Depth. from to                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | Installation Method:                                                                    | N                                          | umber of bags used.                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Administrative                           | County: LAWRENCE                                                                        |                                            | Township: 6N Range:                                  | ıw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|                                          | Section: SW 1/4 of the NW 1/4                                                           | of the NE 1/4 of Section 29                |                                                      | Topo map OOLITIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                          | Field located by: JCH                                                                   |                                            | on: Mon, Aug 01, 196                                 | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                          | Courthouse location by                                                                  | t                                          | on·                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | Location accepted w/o verifical<br>Subdivision name:                                    | иют ву.                                    | on<br>Lot number                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | Ft W of EL: 2100                                                                        | Ft N of SL                                 | Ft E of WL.                                          | Ft S of NL: 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                          | Ground elevation: 710 0                                                                 | Depth to bedrock                           | Bedrock elevation                                    | Aquifier elevation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|                                          | UTM Easting 539629 0                                                                    | _ <b>,</b>                                 | UTM Northing 43088                                   | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                          | _                                                                                       |                                            |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Well Log                                 | Top Bottom                                                                              |                                            |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | 0 0 40 0                                                                                | DIRT<br>BI UE LS HARD                      |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | 40 0 43 0<br>43 0 45 0                                                                  | RED CLAY                                   |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | 45 0 70 0                                                                               |                                            | JUD SEAMS SOFT                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | 70 0 85 0                                                                               | BROKEN LS & MUD SEAMS SOFT<br>BLUE LS HARD |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | 85 0 98 0                                                                               | BROKEN IS SOF                              | ₹T                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          | 98 0 126 0                                                                              | BLUE LS SOFT                               | •                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          |                                                                                         | WHITE LS SOFT                              |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          |                                                                                         | BI UE LS SOFT                              |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          |                                                                                         | WHIIE LS SOFT                              |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                          |                                                                                         | WILLE ES JOH                               |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Comments                                 | MC 67Page 9559                                                                          |                                            | a manufus articles, pour membros, admires despuis de | COMPAN CAMPAND OF THE PROPERTY |  |

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#### Record of Water Well

| Reference Number                                      | Driving directions to w     | ell           |                                                      |                                | Date completed           |
|-------------------------------------------------------|-----------------------------|---------------|------------------------------------------------------|--------------------------------|--------------------------|
| 217286                                                | I MI S OF NEEDMOR           | Е             |                                                      |                                | Wed, Jul 20, 1960        |
| Owner-Contractor<br>Well Owner<br>Building Contractor | <i>Name</i><br>VON CRAIG    |               | dress<br>DFORD RR 3 IND.                             |                                | Telephone                |
| Drilling Contractor                                   | FLOYD STULTZ                | BE            | DFORD IND. RR 4 BOX 72                               |                                |                          |
| Equipment Operator                                    | FLOYD STULTZ                | Lic           | ense:                                                |                                |                          |
| Construction Details                                  |                             |               |                                                      |                                |                          |
| Vell                                                  | Use: HOME                   | Dri           | lling method: CABLE TOOL                             | Pump type:                     |                          |
|                                                       | Depth: 60.0                 | Pui           | np setting depth:                                    | Water quality:                 |                          |
| Casing<br>Screen                                      | Length: 43.0<br>Length:     |               | terial:<br>terial:                                   | Diameter: 6.0<br>Diameter: Slo | ! size:                  |
| Well Capacity Test                                    | Type of test: Drawdown: ft. |               | Test rate: gpm for hrs. Static water level: 35.0 ft. | BailTest ra                    | te: 5.0 gpm for 8.0 hrs. |
| Grouting Information                                  |                             |               |                                                      | oth: from to                   |                          |
|                                                       | Installation Method:        |               | Nu                                                   | mber of bags used:             |                          |
| Vell Abandonment                                      | Sealing material:           |               |                                                      | oth: from to                   |                          |
|                                                       | Installation Method:        |               | Nu                                                   | mber of bags used:             |                          |
| Administrative                                        | County: LAWRENCE            |               |                                                      | Township: 6N Range:            | 1 W                      |
|                                                       | Section: NE 1/4 of the S    | SE 1/4 of the | SE 1/4 of Section 29                                 |                                | Topo map: OOLITIC        |
|                                                       | Field located by: IT -S     |               |                                                      | on: Tue, Nov 01, 1960          |                          |
|                                                       | Courthouse location by      |               |                                                      | on:                            |                          |
|                                                       | Location accepted w/o v     | verification  | by:                                                  | on:                            |                          |
|                                                       | Subdivision name:           |               |                                                      | Lot number:                    |                          |
|                                                       | Ft W of EL: 400             |               | Ft N of SL: 900                                      | Ft E of WL:                    | Ft S of NL:              |
|                                                       | Ground elevation: 670       |               | Depth to bedrock:                                    | Bedrock elevation:             | Aquifier elevation:      |
|                                                       | UTM Easting: 540174.0       | )             |                                                      | UTM Northing: 43079            | 410                      |
| Vell Log                                              | Тор                         | Bottom        | Formation                                            |                                |                          |
|                                                       | 0.0                         | 43.0          | CLAY                                                 |                                |                          |
|                                                       | 43.0                        | 60 0          | LS                                                   |                                |                          |
| omments                                               | MC630, CHEM ANALY           | (SIS          |                                                      |                                |                          |

#### Record of Water Well

| Reference Number                                | Driving directions to well              | history per 14 tons 4 december 16 to          | Date completed                       |
|-------------------------------------------------|-----------------------------------------|-----------------------------------------------|--------------------------------------|
| 217291                                          | APP 1/4 MLS OF NEED!                    | MORE IND & ON W SIDE OF SI                    | R37 Wed Nov 29 1961                  |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>BATOM EVANS              | Address                                       | Telephone                            |
| Drilling Contractor                             |                                         | ONS RR 6 BEDFORD IND                          |                                      |
| Equipment Operator                              | ERNIE UMPHRFSS & SC                     | DNS License                                   |                                      |
| Construction Details                            |                                         |                                               |                                      |
| Well                                            | Use HOME                                | Drilling method CABLE To                      | OOL Pump type                        |
|                                                 | Depth 100 0                             | Pump setting depth                            | Water quality                        |
| Casing<br>Screen                                | Length 175                              | Material<br>Material                          | Diameter 4 0<br>Diameter Slot size   |
| Scieen                                          | Length                                  | Muchu                                         | Diameter Stot Size                   |
| Well Capacity Test                              | Type of test<br>Drawdown ft             | Test rate gpm for hi<br>Static water level ft | s BailTest rate 3 0 gpm for hrs      |
| Grouting Information                            | Material                                |                                               | Depth from to                        |
|                                                 | Installation Method                     |                                               | Number of bags used                  |
| Well Abandonment                                | Sealing material<br>Installation Method |                                               | Depth from to Number of bags used    |
| Administrative                                  | County LAWRENCE                         |                                               | Township 6N Range 1W                 |
|                                                 | Section SF 1/4 of the NF                | 1/4 of the SW 1/4 of Section 28               | Topo map OOLITIC                     |
|                                                 | Field located by JCH                    |                                               | on Mon Aug 01 1966                   |
|                                                 | Courthouse location by                  |                                               | on                                   |
|                                                 | Location accepted w/o vert              | fication by                                   | on                                   |
|                                                 | Subdivision name                        |                                               | Lot number                           |
|                                                 | Ft W of EL                              | Ft N of SI 500                                | Ft E of WL 2650 Ft S of NL           |
|                                                 | Ground elevation 630 0                  | Depth to bedrock                              | Bedrock elevation Aquifier elevation |
|                                                 | UTM Easting 5411120                     |                                               | UTM Northing 4308[19 ()              |
|                                                 | or a Basing sarries                     |                                               |                                      |
| Well Log                                        | Top Bot                                 | tom Formation                                 |                                      |
| Well Log                                        | · ·                                     | tom Formation DIRT                            |                                      |
| Well Log                                        | Top Bot                                 | DIRT                                          | HARD                                 |
| Well Log                                        | Top Bot 0 0 4 ()                        | DIRT<br>BLUE LS EX                            |                                      |

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#### Record of Water Well

#### Indiana Department of Natural Resources

Reference Number Driving directions to well Date completed 217296 AP 1/4 MI S OF NEEDMORE IND ON SR37 AND ON E SIDE OF RD Thu, Apr 05, 1962 Owner-Contractor Name Address Telephone Well Owner JOE B NORDHAFF **Building Contractor** Drilling Contractor ERNIE UMPHRESS & SONS RR 6 BEDFORD IND Equipment Operator ERNIE UMPHRESS & SONS License Construction Details Well Use: HOME Drilling method: CABLE TOOL Pump type: Depth: 200 0 Pump setting depth: Water quality: Casing Length: 68 Material: Diameter: 60 Screen Material: Diameter: Slot size: Length: Well Capacity Test Type of test: Test rate: gpm for hrs BailTest rate. 0 2 gpm for 1 0 hrs Drawdown: ft Static water level: 75 0 ft Grouting Information Material: Depth: from to Installation Method: Number of bags used: Well Abandonment Sealing material. Depth: from to Installation Method: Number of bags used: Administrative County: LAWRENCE Township: 6N Range: 1W Section: SW 1/4 of the NW 1/4 of the SE 1/4 of Section 28 Topo map OOLITIC Field located by: JCH on: Mon, Aug 01, 1966 Courthouse location by Location accepted w/o verification by: on: Subdivision name: Lot number Ft W of EL: 2400 Ft N of SL: 1500 Ft E of WL. Ft S of NL Ground elevation 6400 Depth to bedrock: Bedrock elevation: 635 0 Aquifier elevation UTM Easting: 541161 0 UTM Northing 4308119 0 Bottom Formation Well Log Top 0.0 4 0 DIRT 40 70.0 **BLUE LS HARD** 70.0 76 0 WH LS SOFT 76.0 92.0 **BR LS SOFT** 92 () 1800 WH LS SOFT 180.0 1840 **BLUE LS HARD** 184.0200.0 **BLUE SH SOFT** Comments

| Reference Number                         | Driving directions to w                 | ell             | ar A syan member a s                           | Di                                  | ate completed      |
|------------------------------------------|-----------------------------------------|-----------------|------------------------------------------------|-------------------------------------|--------------------|
| 217301                                   | AVOCA                                   |                 |                                                | Τι                                  | ue Jul 07 1953     |
| Owner Contractor Well Owner              | <i>Name</i><br>ELMER PATTON             | Addr            | ess                                            | Te                                  | lephone            |
| Building Contractor  Drilling Contractor | HOMER ALFORD                            | RR3             | MITHCELL                                       |                                     |                    |
| Equipment Operator                       |                                         | Licen           | se                                             |                                     |                    |
| Construction Details                     |                                         |                 |                                                |                                     |                    |
| Weil                                     | Use HOME                                |                 | ng method CABLE TOOL                           | Pump type                           |                    |
| _                                        | Depth 114 0                             | -               | setting depth                                  | Water quality                       |                    |
| Casing<br>Screen                         | Length 39 5<br>Length                   | Matei<br>Matei  |                                                | Diameter 5 63<br>Diameter Slot size | ?                  |
| Well Capacity Test                       | Type of test<br>Drawdown ft             |                 | Test rate gpm for hrs<br>Static water level ft | BailTest rate 4                     | 0 gpm for hrs      |
| Grouting Information                     | Material                                |                 | Dep                                            | oth from to                         |                    |
|                                          | Installation Method                     |                 | Vu                                             | mber of bags used                   |                    |
| Well Abandonment                         | Sealing material<br>Installation Method |                 | •                                              | oth from to<br>mber of bags used    |                    |
| Administrative                           | County LAWRENCE Section NW 1/4 of the   | SE 1/4 of the S | SE 1/1 of Section 31                           | Township 6N Range 1W                | T. OOLITTIC        |
|                                          | Field located by JRD                    | 3L 1/4 of the t | 3E 174 Of Section 31                           | on Tue Aug 08 1978                  | Topo map OOLITIC   |
|                                          | Courthouse location by                  |                 |                                                | on the Aug on 1978                  |                    |
|                                          | Location accepted w/o v                 |                 |                                                | on                                  |                    |
|                                          | Subdivision name                        |                 |                                                | Lot number                          |                    |
|                                          | Ft W of EL 750                          | F               | t N of SL 1200                                 | Ft E of WL                          | Ft S of NL         |
|                                          | Ground elevation 655 0                  | ) <i>D</i>      | epth to bedrock 350                            | Bedrock elevation 6200              | Aquifier elevation |
|                                          | UTM Easting 538500 0                    | )               |                                                | UTM Northing 4306438 0              |                    |
| Vell I og                                | Тор Е                                   | Bottom          | Formation                                      |                                     |                    |
|                                          | 0 0                                     | 35 0            | OVERBURDEN CL                                  | . NY ROCKS                          |                    |
|                                          | 3 0 0                                   | 39 0            | SOLID LS                                       |                                     |                    |
|                                          |                                         | 114 0           | LS                                             |                                     |                    |

## Record of Water Well

| Reference Number 217306                         | Driving directions to well                      | ar yakeessa yakeessa maa ay a                  | ten as search | Da                                | ate completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 217300                                          | 2 MI W FROM OOLITIC OF                          | N SR54 TO GREEN LANE THE                       | NIMIS         | We                                | ed Dec 09 1964                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Owner Contractor Well Owner Building Contractor | Name<br>JESSE STANLEY                           | Address<br>86 OOLITIC RD BEDFORD               |               | Te                                | lephone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Drilling Contractor                             | ERNIE UMPHRESS & SON                            | S RR 6 BOX 13 BEDFORD                          |               |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Equipment Operator                              | EUGENE & CHARLES<br>UMPHRESS                    | License                                        |               |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Construction Details                            |                                                 |                                                |               |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Well                                            | Use HOME                                        | Drilling method CABLE TO                       | OL            | Pump type                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| _                                               | Depth 100 0                                     | Pump setting depth                             |               | Water quality                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Casing<br>Screen                                | Length 460<br>Length                            | Material<br>Material                           |               | Diameter 60<br>Diameter Slot size | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Well Capacity Test                              | Type of test<br>Drawdown ft                     | Test rate gpm for hrs<br>Static water level 76 |               | BailTest rate 4                   | 0 gpm for hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Grouting Information                            | Material<br>Installation Method                 |                                                | Depth from    |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Well Abandonment                                | Sealing material<br>Installation Method         |                                                | Depth from    |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Administrative                                  | County LAWRENCE<br>Section SW 1/4 of the SW 1/4 | 4 of the SW 1/4 of Section 30                  | Tor           | wnship 6N Range 1W                | Topo map OOLITIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 | Field located by JRD                            |                                                | on            | Tue Aug 08 1978                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | Courthouse location by                          |                                                | on            |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | Location accepted w/o verific                   | ation by                                       | on            |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | Subdivision name                                |                                                |               | number                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | Ft W of EL                                      | Ft N of SL 200                                 | Ft I          | F of WL 100                       | Ft S of NL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                 | Ground elevation 675 0                          | Depth to bedrock 390                           | Bea           | trock elevation 636 0             | Aquifier elevation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                 | UTM Easting 537041 0                            |                                                | UT            | <b>W Vorthing</b> 4307704 0       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Well Log                                        | Top Botto                                       | m Formation                                    |               |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 0 0 39 0                                        | BOLDERS &                                      | (LAY          |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 39 0 58 0                                       | GRAY LIME                                      | MEDIUM        |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 58 0 69 0                                       | WH LS MEDI                                     | LМ            |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 69 0 87 0                                       | GRAY LIME                                      |               |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 87 0 101 0                                      | WH LIME                                        |               |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Comments                                        | MC636 OWNER VERIFIED                            | 15 FT SW OF HOUSE                              | to boardens   |                                   | reministrative and anything to the consequent and the same special spe |

#### Record of Water Well

| Reference Number                        | Driving directions to well      | nd cannely engage after After to be t | antiquia Auri tengt de action | Date completed          |
|-----------------------------------------|---------------------------------|---------------------------------------|-------------------------------|-------------------------|
| 217311                                  | AP 1 MI W OF AVACA IND          | ON SR54                               |                               | Fn Jun 10 1960          |
| Owner Contractor Well Owner             | <i>Name</i><br>GORDEN PORTER    | Address<br>SPRINGSVILLE RR 2          |                               | Telephone               |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS           | RR 6 BOX 13 BFDFORD                   |                               |                         |
| Equipment Operator                      | ERNIE UMPHRESS & SONS           | License                               |                               |                         |
| Construction Details                    |                                 |                                       |                               |                         |
| Weli                                    | Use HOME                        | Drilling method CABLE TOO             | L Pump type                   |                         |
|                                         | Depth 1120                      | Pump setting depth                    | Water quality                 |                         |
| Casing<br>Screen                        | Length 507<br>Length            | Material<br>Material                  | Diameter 60<br>Diameter Slo   |                         |
| Well Capacity Test                      | Type of test                    | Test rate gpm for hrs                 | BailTest ro                   | ue 1 25 gpm for 1 0 hrs |
|                                         | Drawdown ft                     | Static water level 43 0               | ft                            |                         |
| Grouting Information                    | Material<br>Installation Method |                                       | Depth from to                 |                         |
|                                         | Installation William            | •                                     | Number of bags used           |                         |
| Well Abandonment                        | Sealing material                |                                       | Depth from to                 |                         |
|                                         | Installation Method             | •                                     | Number of bags used           |                         |
| Administrative                          | County LAWRENCE                 |                                       | Township 6N Range             | 1W                      |
|                                         | Section SW 1/4 of the SE 1/4 of | of the SE 1/4 of Section 30           |                               | Topo map OOLITIC        |
|                                         | Field located by BARNES         |                                       | on Fri Jul 01 1960            |                         |
|                                         | Courthouse location by          |                                       | on                            |                         |
|                                         | Location accepted w/o verificat | tion by NO                            | on                            |                         |
|                                         | Subdivision name                |                                       | Lot number                    |                         |
|                                         | Ft W of EL. 1150                | Ft N of SL 350                        | Ft E of WL.                   | Ft S of NL.             |
|                                         | Ground elevation 6100           | Depth to bedrock                      | Bedrock elevation             | Aquifier elevation      |
|                                         | UTM Easting 538357 0            |                                       | UTM Vorthing 43077            | 25 0                    |
| Well Log                                | Top Bottom                      | Formation                             |                               |                         |
|                                         | 0 0 48 0                        | DIRT & LAYER                          | S OF LS                       |                         |
|                                         | 48 0 112 0                      | GRAYISNOT                             | TO HARD                       |                         |
| Comments                                | МС                              |                                       |                               |                         |

25

| Reference Number                                | Driving directions t                    | o well            | distant the translate of the 2+ | 21 Select- vas de ca-             | Date completed     |
|-------------------------------------------------|-----------------------------------------|-------------------|---------------------------------|-----------------------------------|--------------------|
| 217316                                          | 3/4 MI W OF AVA                         | CO ON SR54        |                                 |                                   | Tue Jul 12 1960    |
| Owner Contractor Well Owner Building Contractor | <i>Name</i><br>ORDA O TURNER            |                   | dress<br>RINGSVILLE RR 2 IND    |                                   | Telephone          |
| Onlling Contractor                              | ERNIE UMPHRESS                          | &SONS RR          | 6 BOX 13 BEDFORD                |                                   |                    |
| Equipment Operator                              | ERNIE UMPHRESS                          | & SONS Lice       | ense                            |                                   |                    |
| Construction Details                            |                                         |                   |                                 |                                   |                    |
| Vell                                            | Use HOME                                | Dru               | lling method CABLE TOO          | L Pump type                       |                    |
|                                                 | Depth 100 0                             | Pun               | np setting depth                | Water qualit                      | y                  |
| Casing<br>creen                                 | Length 18 25<br>Length                  |                   | enal<br>enal                    | Diameter 6<br>Diameter 18         |                    |
| Well Capacity Test                              | Type of test                            |                   | Test rate gpm for hrs           | BailTest 1                        | ate 30 gpm for hrs |
|                                                 | Drawdown ft                             |                   | Static water level 150          | ft                                |                    |
| Frouting Information                            | Material                                |                   |                                 | Depth from to                     |                    |
|                                                 | Installation Method                     |                   |                                 | Number of bags used               |                    |
| Vell Abandonment                                | Sealing material<br>Installation Method |                   |                                 | Depth from to Number of bags used |                    |
| .dministrative                                  | County LAWRENC                          |                   |                                 | Township 6N Range                 |                    |
|                                                 |                                         |                   | SE 1/4 of Section 30            |                                   | Topo map OOLITIC   |
|                                                 | Field located by H                      |                   |                                 | on Wed Nov 01 19                  | 51                 |
|                                                 | Courthouse location                     | •                 |                                 | on                                |                    |
|                                                 | Location accepted w                     | /o verification l | ру                              | on                                |                    |
|                                                 | Subdivision name                        |                   | W A. 404                        | Lot number                        |                    |
|                                                 | Ft W of EL. 1700                        |                   | Ft N of SL 200                  | Ft E of WL.                       | Ft S of NL         |
|                                                 | Ground elevation 5                      |                   | Depth to bedrock                | Bedrock elevation                 | Aquifier elevation |
|                                                 | UTM Easting >3819                       | 93 0              |                                 | UTM Northing 4307                 | 724 0              |
| Well Log                                        | Тор                                     | Bottom            | Formation                       |                                   |                    |
|                                                 | 0 0                                     | 5 0               | DIRT                            |                                   |                    |
|                                                 | 5 0                                     | 150               | SJELI IE LS                     |                                   |                    |
|                                                 | 15 0                                    | 30 0              | HARD BLUE L                     | S                                 |                    |
|                                                 | 30 0                                    | 90 0              | GRAY LS SOF                     | Γ                                 |                    |
|                                                 | 90 0                                    | 100 0             | HARD BLUE L                     | S                                 |                    |
| `omments                                        | MC585 CHEM ANA                          | AL YSIS           |                                 |                                   |                    |

. 450 . 0. .

## 158

| Reference Number                        | Driving directions to w                 | ell                          | unica and and a decapation and head      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ate completed            |
|-----------------------------------------|-----------------------------------------|------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 217321                                  | APP 2 MI W OF NEED                      | OMORE IND                    | F                                        | rı May 24 1963                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |
| Owner-Contractor Well Owner             | <i>Name</i><br>MAUDE HOTZ               | <i>Address</i><br>RR #4 BEDI | FORD IND                                 | Τ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | elephone                 |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS &                        | SONS BEDFORD                 | IND RR 6                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |
| Equipment Operator                      | EUGENE & CHARLES<br>UMPHRESS            |                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |
| Construction Details                    |                                         |                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |
| Well                                    | Use HOME                                | Drilling met                 | hod CABLE TOOL                           | Pump type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |
|                                         | Depth 165 0                             | Pump setting                 | g depth                                  | Water quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |
| Casing<br>Screen                        | Length 77 0<br>Length                   | Material<br>Material         |                                          | Diameter 60<br>Diameter Slot siz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | e                        |
| Well Capacity Test                      | Type of test<br>Drawdown ft             |                              | rate gpm for hrs<br>c water level 600 ft | BailTest rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0 5 gpm for hrs          |
| Grouting Information                    | Material<br>Installation Method         |                              |                                          | epth from to<br>umber of bags used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
| Well Abandonment                        | Sealing material<br>Installation Method |                              |                                          | epth from to<br>umber of bags used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
| Administrative                          | County LAWRENCE Section SW 1/4 of the N | NE 1/4 of the NW 1/4         | of Section 29                            | Township 6N Range 1W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Topo map OOLITIC         |
|                                         | Field located by JCH                    |                              |                                          | on Mon Aug 01 1966                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
|                                         | Courthouse location by                  |                              |                                          | on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
|                                         | Location accepted w/o v                 | erification by               |                                          | on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
|                                         | Subdivision name                        |                              |                                          | Lot number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
|                                         | Ft W of EL.                             | Ft N                         | N of SL                                  | Ft E of WL 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Et S of VL 1300          |
|                                         | Ground elevation 690 0                  | Dep                          | th to bedrock                            | Bedrock elevation 6610                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Aquifier elevation       |
|                                         | UTM Easting >39142 0                    |                              |                                          | UTM Vorthing 4308878 (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | )                        |
| Well Log                                | Top E                                   | Bottom                       | Formation                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |
|                                         | 0 0                                     | 3 0                          | DIRT                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |
|                                         | 33.0                                    | 1 0                          | BOUI DERS & MU                           | JD HOLFS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |
|                                         | 71 0 9                                  | 0.0                          | WH LS HARD                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |
|                                         | 90 0                                    | 22 0                         | BLUE LS HARD                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |
|                                         | 1220                                    | 65 0                         | WH LS SOFT                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |
| Comments                                | MC660                                   | antaram. He aphreci de the   | tier standarding states 50 M             | de des sono de la compansa del compansa de la compa | . his sales as as assess |

#### Indiana Department of Natural Resources

Reference Number

Driving directions to well

Date completed

217326

APP 1 1/2 MI NE OF AVOCA IND ON N PIKE RD

Fn, Apr 10, 1964

Telephone

Owner-Contractor Well Owner

Name ARTHUR SYKES Address

SPRINGVILLE IND. R 2

**Building Contractor** Drilling Contractor Equipment Operator

ERNIE UMPHRESS & SONS BEDFORD IND RR 6 **EUGENE & CHARLES** 

License.

Construction Details

Well

Use: HOME Depth: 161.0

**UMPHRESS** 

Drilling method: CABLE TOOL

Pump type: Pump setting depth: Water quality: Material: Diameter: 6.0

Casing Screen

Length: Length:

Material:

BailTest rate: 0.1 gpm for 1 0 hrs

Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft Test rate: gpm for hrs. Static water level: 66 0 ft

Grouting Information

Well Abandonment

Material:

Depth: from to Number of bags used:

Installation Method:

Sealing material: "nstallation Method: Depth: from to Number of bags used:

Lot number:

Administrative

County: LAWRENCE

Section: NW 1/4 of the NW 1/4 of the SW 1/4 of Section 29

Township: 6N Range: 1W Topo map: OOLITIC

on: Mon, Aug 01, 1966 Field located by: JCH

Courthouse location by: on: Location accepted w/o verification by: on:

Subdivision name:

Ft W of EL: Ft N of SL: 2400 Ft E of WL: 100 Ft S of NL: Aquifier elevation: Ground elevation: 665 0 Depth to bedrock: Bedrock elevation:

UTM Easting: 538722 0

UTM Northing: 4308383 0

Well Log

Comments

| Гор   | Bottom | Formation    |  |
|-------|--------|--------------|--|
| 0.0   | 101 0  | BLANK        |  |
| 101 0 | 125 0  | WH LS SOFT   |  |
| 125 0 | 143 0  | BLUE LS HARD |  |
| 143 0 | 159 0  | GRAY LS HARD |  |
| 159 0 | 161.0  | BLUE LS HARD |  |
| MC    |        |              |  |

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## 160

#### Record of Water Well

Indiana Department of Natural Resources

| -                                       |                                         |                                  |                                   |                         |
|-----------------------------------------|-----------------------------------------|----------------------------------|-----------------------------------|-------------------------|
| Reference Number                        | Driving directions to we                | ii — — — —                       | and the same of the same in       | Date completed          |
| 217331                                  | 5 MI W AVOCA FISH I                     | HATCHERY ON EURICA RD            |                                   | Sun Apr 24 1960         |
| Owner Contractor Well Owner             | <i>Name</i><br>ELMER PATON              | Address<br>AVOCA IN              |                                   | Telephone               |
| Building Contractor Drilling Contractor | ELMER ATFORD                            | MITCHELL IN                      |                                   |                         |
| Equipment Operator                      | ELMER ATFORD                            | License                          |                                   |                         |
| Construction Details                    |                                         |                                  |                                   |                         |
| Well                                    | Use HOME                                | Drilling method CABLE            | TOOL Pump type                    | e                       |
|                                         | Depth 910                               | Pump setting depth               | Water qua                         | •                       |
| Casing<br>Screen                        | Length<br>Length                        | Material<br>Material             | Diameter<br>Diameter              |                         |
| Well Capacity Test                      | Type of test PUMPING Drawdown ft        | Test rate 110 gp                 |                                   | st rate gpm for 0.5 hrs |
| Grouting Information                    | Material<br>Installation Method         |                                  | Depth from to Number of bags used |                         |
| Well Abandonment                        | Sealing material<br>Installation Method |                                  | Depth from to Number of bags used |                         |
| Administrative                          | County LAWRENCE                         |                                  | Township 6N Ra                    | nge IW                  |
|                                         | Section NW 1/4 of the S                 | W 1/4 of the SW 1/4 of Section 3 | 31                                | Topo map OOLITIC        |
|                                         | Field located by BARNE                  | ES                               | on Fr Jul 01 19                   | 60                      |
|                                         | Courthouse location by                  |                                  | on                                |                         |
|                                         | Location accepted w/o ve                | rification by                    | on                                |                         |
|                                         | Subdivision name                        |                                  | Lot number                        |                         |
|                                         | Ft W of EL 600                          | Ft N of SL 1000                  | Ft E of WL                        | Ft S of VL              |
|                                         | Ground elevation 650 0                  | Depth to bedrock                 | k Bedrock elevation               | Aquifier elevation      |
|                                         | UTM Easting 538524 0                    |                                  | UTM Northing 4                    | 306371 0                |
| Well Log                                | Тор В                                   | ottom Formation                  |                                   |                         |
| 6                                       | 0 0 5                                   | 7 0 CLAY & E                     | 3OLI DERS                         |                         |

LIMI GRAY

910

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Comments

mainin Department of Mataras Mesonators

#### 1460 101 1

#### Record of Water Well

261

| Reference Number                        | Driving directions to well        | m is according to the last taken in                                                                             |                                     | Date completed           |  |
|-----------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|--|
| 217336                                  |                                   | APPROX STARTING AT THE JCT OF SR58 & GREEN LANE WELL LIES 1 2 M1 S OF SR58 103 FT E OF THE CENTER OF GREEN LANE |                                     |                          |  |
| Owner-Contractor Well Owner             | Name<br>KEITH S DAVIS             | Address<br>RR #2 SPRINGVILLE                                                                                    |                                     | Telephone                |  |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS             | RR 6 BOX 13 BEDFORD                                                                                             |                                     |                          |  |
| Equipment Operator                      | ERNIE UMPHRESS                    | License                                                                                                         |                                     |                          |  |
| Construction Details                    |                                   |                                                                                                                 |                                     |                          |  |
| Well                                    | Use: HOME                         | Drilling method: CABLE TOOL                                                                                     | Pump type:                          |                          |  |
|                                         | Depth: 103 0                      | Pump setting depth:                                                                                             | Water quality:                      | •                        |  |
| Casing<br>Screen                        | Length: 95 0<br>Length:           | Material:<br>Material:                                                                                          | Diameter: 6 0<br>Diameter: Slo      |                          |  |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft     | Test rate: gpm for hrs Static water level: 63 0 ft                                                              | BailTest ra                         | te: 10 0 gpm for 1 0 hrs |  |
| Grouting Information                    | Material:<br>Installation Method: |                                                                                                                 | epth: from to<br>umber of bags used |                          |  |
| Well Abandonment                        | Sealing material:                 |                                                                                                                 | epth: from to                       |                          |  |
| wen Abanabameni                         | Installation Method:              |                                                                                                                 | umber of bags used:                 |                          |  |
| Administrative                          | County: LAWRENCE                  |                                                                                                                 | Township: 6N Range:                 | 1W                       |  |
|                                         | Section: SW 1/4 of the NW 1/4     | 4 of the SW 1/4 of Section 31                                                                                   |                                     | Topo map. OOLITIC        |  |
|                                         | Field located by: S&H             |                                                                                                                 | on: Tue, Nov 01, 1960               | •                        |  |
|                                         | Courthouse location by:           |                                                                                                                 | on:                                 |                          |  |
|                                         | Location accepted w/o verifice    | ution by:                                                                                                       | on.                                 |                          |  |
|                                         | Subdivision name:                 |                                                                                                                 | Lot number:                         |                          |  |
|                                         | Ft W of EL:                       | Ft N of SL · 1400                                                                                               | Ft E of WL: 100                     | Ft S of NL:              |  |
|                                         | Ground elevation: 670 0           | Depth to bedrock                                                                                                | Bedrock elevation.                  | Aquifier elevation       |  |
|                                         | UTM Easting: 537055 0             | •                                                                                                               | UTM Northing 43065                  |                          |  |
| Well Log                                | Top Botton                        | n Formation                                                                                                     |                                     |                          |  |

| Well Log | Тор  | Bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Formation                  |
|----------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|          | 0 0  | 95 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MUD HOI ES & LS & BOULDERS |
|          | 95 0 | 103 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | WHISSOFT                   |
| Comments | MC   | -Prio at Hilling and Control C |                            |

#### Record of Water Well

| Reference Number                        | Driving directions to                   | well                  | gante de la labor der production de la les land             | transium of tale of A to the colleges contained | Date completed     |
|-----------------------------------------|-----------------------------------------|-----------------------|-------------------------------------------------------------|-------------------------------------------------|--------------------|
| 217337                                  | 5 MI N OF BEDFORI                       | O ON PEERLE           | ESS RD I MI NW OF MT PLEA                                   | SANT CHURCH                                     |                    |
| Owner-Contractor Well Owner             | <i>Name</i><br>DON STULTZ               | <i>Addi</i><br>BED    | ress<br>FORD RR 4 IND                                       |                                                 | Telephone          |
| Building Contractor Drilling Contractor | FLOYD STULTZ                            | R #4                  | BEDFORD IND                                                 |                                                 |                    |
| Equipment Operator                      | FLOYD STULTZ                            | Lices                 |                                                             |                                                 |                    |
| Construction Details                    |                                         |                       |                                                             |                                                 |                    |
| Well                                    | Use HOME                                | Drill                 | ing method CABLE TOOL                                       | Pump type                                       |                    |
|                                         | Depth                                   | Pum                   | p setting depth                                             | Water quality                                   |                    |
| Casing<br>Screen                        | Length 100<br>Length                    | Mate<br>M <b>a</b> te |                                                             | Diameter 60<br>Diameter Slo                     |                    |
| Well Capacity Test                      | Type of test<br>Drawdown ft             |                       | Test rate 1 0 gpm for 8 0 hrs<br>Static water level 20 0 ft | s BailTest ra                                   | ate gpm for hrs    |
| Grouting Information                    | Material<br>Installation Method         |                       | •                                                           | h from to<br>ber of bags used                   |                    |
| Well Abandonment                        | Sealing material<br>Installation Method |                       | _                                                           | h from to<br>ber of bags used                   |                    |
| Administrative                          | County LAWRENCE                         |                       |                                                             | Township 6N Range                               | ıw                 |
|                                         | Section SW 1/4 of the                   | NW 1/4 of the         | SE 1/4 of Section 28                                        |                                                 | Topo map OOLITIC   |
|                                         | Field located by JCH                    |                       |                                                             | on Mon Aug 01 1966                              | 5                  |
|                                         | Courthouse location by                  | y                     |                                                             | on                                              |                    |
|                                         | Location accepted w/o                   | verification by       | ,                                                           | on                                              |                    |
|                                         | Subdivision name                        |                       |                                                             | Lot number                                      |                    |
|                                         | Ft W of EL 2600                         |                       | Ft N of SL 1900                                             | Ft E of WL.                                     | Ft S of NI         |
|                                         | Ground elevation 650                    | 0                     | Depth to bedrock                                            | Bedrock elevation                               | Aquifier elevation |
|                                         | UTM Fasting 541112                      | 0                     |                                                             | UTM Northing 43082                              | 47 0               |
| Well Log                                | Тор                                     | Bottom                | Formation                                                   |                                                 |                    |
|                                         | 0 0                                     | 100                   | CLAY                                                        |                                                 |                    |
|                                         | 100                                     | 105 0                 | HARD LS                                                     |                                                 |                    |

#### Record of Water Well

| Reference Number                        | Driving directions to                            | well           | unum e militarite im MAN juliuspatienis tiput tympite vi | L                                  | Date completed      |  |  |
|-----------------------------------------|--------------------------------------------------|----------------|----------------------------------------------------------|------------------------------------|---------------------|--|--|
| 217341                                  | ON SR 54 IT IS ON THE L SIDE OF TOWN ON THE HILL |                |                                                          |                                    |                     |  |  |
| Owner-Contractor Well Owner             | <i>Name</i><br>GEORGE SARGENT                    |                | lress<br>INGVILLE                                        | 7                                  | elephon <b>e</b>    |  |  |
| Building Contractor Drilling Contractor | HAROLD JACKSON                                   | 151            | S E TIPTON, SYCAMORE, IN                                 |                                    |                     |  |  |
| Equipment Operator                      |                                                  | Lice           | ense:                                                    |                                    |                     |  |  |
| Construction Details                    |                                                  |                |                                                          |                                    |                     |  |  |
| Well                                    | Use: HOME                                        | Dril           | ling method: CABLE TOOL                                  | Pump type:                         |                     |  |  |
|                                         | Depth: 114 0                                     |                | ip setting depth:                                        | Water quality:                     |                     |  |  |
| Casing<br>Screen                        | Length: 45 0<br>Length:                          |                | erial:<br>erial:                                         | Diameter: 4.5<br>Diameter: Slot si | ze:                 |  |  |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft                    |                | Test rate: gpm for hrs<br>Static water level: ft.        | BailTest rate:                     | gpm for hrs.        |  |  |
| Grouting Information                    | Material:<br>Installation Method:                |                | •                                                        | oth: from to<br>mber of bags used: |                     |  |  |
| Well Abandonment                        | Sealing material:<br>Installation Method:        |                | •                                                        | oth: from to<br>mber of bags used: |                     |  |  |
| Administrative                          | County: LAWRENCE                                 |                |                                                          | Township: 6N Range: 1V             | v                   |  |  |
|                                         | Section: SE 1/4 of the 1                         | NE 1/4 of the  | NE 1/4 of Section 31                                     |                                    | Topo map: OOLITIC   |  |  |
|                                         | Field located by: JCH                            |                |                                                          | on: Mon, Aug 01, 1966              |                     |  |  |
|                                         | Courthouse location by                           | y:             |                                                          | on:                                |                     |  |  |
|                                         | Location accepted w/o                            | verification b | by:                                                      | on:                                |                     |  |  |
|                                         | Subdivision name:                                |                |                                                          | Lot number:                        |                     |  |  |
|                                         | Ft W of EL: 200                                  |                | Ft N of SL:                                              | Ft E of WL:                        | Ft S of NL: 700     |  |  |
|                                         | Ground elevation: 575                            | 0              | Depth to bedrock:                                        | Bedrock elevation: 530 0           | Aquifier elevation: |  |  |
|                                         | UTM Easting: 538656                              | 0              |                                                          | UTM Northing: 4307408              | 0                   |  |  |
| Well Log                                | Тор                                              | Bottom         | Formation                                                |                                    |                     |  |  |
|                                         | 0 0                                              | 45.0           | RED CLAY                                                 |                                    |                     |  |  |
|                                         | 45.0                                             | 75 0           | WHITE LIME                                               |                                    |                     |  |  |
|                                         | 75 0                                             | 1140           | BLUE LIME & SH                                           |                                    |                     |  |  |
| Comments                                | MC 530                                           |                |                                                          |                                    |                     |  |  |

marana Departi oni or matarar mesosarees

#### 1450 101 1

## 26H

#### Record of Water Well

| Reference Number                                | Driving directions to we                          | "                     |                    |                                 | Date completed       |
|-------------------------------------------------|---------------------------------------------------|-----------------------|--------------------|---------------------------------|----------------------|
| 217342                                          | NEEDMORE ON HIGH                                  | WAY 37 S OF NEEL      | OMORE              |                                 | Wed Jun 26 1963      |
| Owner Contractor Well Owner Building Contractor | <i>Name</i><br>DELBERT STEWART                    | Address               |                    |                                 | Telephone            |
| Drilling Contractor                             | FLOYD STULTZ                                      | BEDFORD II            | ND RR 4            |                                 |                      |
| Equipment Operator                              | FLOYD STULTZ                                      | License               |                    |                                 |                      |
| Construction Details                            |                                                   |                       |                    |                                 |                      |
| Well                                            | Use HOME                                          | Drilling meth         | od CABLE TOOL      | Pump type                       |                      |
|                                                 | Depth 1740                                        | Pump setting          | depth              | Water quality                   |                      |
| Casing<br>Screen                                | Length 220<br>Length                              | Material<br>Material  |                    | Diameter 60<br>Diameter Slo     |                      |
| Well Capacity Test                              | Type of test                                      | Test r                | ate gpm for hrs    | BailTest ra                     | te 50 gpm for 80 hrs |
|                                                 | Drawdown ft                                       | Static                | water level 700 ft |                                 |                      |
| Grouting Information                            | Material                                          |                       | Dej                | <i>pth</i> from to              |                      |
|                                                 | Installation Method                               |                       | Nu                 | mber of bags used               |                      |
| Well Abandonment                                | Sealing material<br>Installation Method           |                       | =                  | pth from to<br>mber of bag u ed |                      |
| Administrative                                  | County LAWRENCE                                   |                       |                    | Township 6N Range               |                      |
|                                                 | Section NE 1/4 of the NE                          | : 1/4 of the SW 1/4 o | of Section 28      |                                 | Topo map OOLITIC     |
|                                                 | Field located by JCH                              |                       |                    | on Mon Aug 01 196               | 6                    |
|                                                 | Courthouse location by  Location accepted w/o ver | nfication by          |                    | on<br>on                        |                      |
|                                                 | Subdivision name                                  | ijicanon by           |                    | Lot number                      |                      |
|                                                 | FI W of FL.                                       | Ft N                  | of SL. 2000        | Ft E of WL. 2000                | Ft S of NL           |
|                                                 | Ground elevation 650 0                            |                       | h to bedrock       | Bedrock elevation               | Aquifier elevation   |
|                                                 | UTM Easting 541075 0                              | оер.                  |                    | UTM Northing 47082              | • •                  |
| Well Log                                        | Гор Во                                            | ottom                 | Formation          |                                 |                      |
| TER LOG                                         | 0 0 22                                            |                       | CLAY               |                                 |                      |
|                                                 |                                                   | 20                    | SOFI LS            |                                 |                      |
|                                                 |                                                   |                       |                    |                                 |                      |

#### Indiana Department of Natural Resources

Driving directions to well

Date completed

223245

20' W OF N PIKE RD 100' E OF SR 54

Wed, Sep 20, 1961

Owner-Contractor Well Owner

Name HARVEY G HOLMES

Address AVOCA, IN Telephone

**Building Contractor** Drilling Contractor

ERNIE UMPHRESS & SONS RR6, BEDFORD, IN

Equipment Operator **ERNIE UMPHRESS**  License

Construction Details

Well

Use: HOME Depth: 79 0

Drilling method: CABLE TOOL

Pump type: Water quality: Diameter. 60

Casing Screen

Length: 24 0 Length:

Material: Material:

Pump setting depth:

Diameter: Slot size:

Well Capacity Test

Type of test: Drawdown: ft Test rate: gpm for hrs Static water level: 39 0 ft BailTest rate: 6 0 gpm for 7 0 hrs

Grouting Information

Material:

Depth: from to Number of bags used.

Installation Method:

Depth: from to

Well Abandonment

Sealing material: Installation Method:

Number of bags used.

Administrative

County: LAWRENCE

Township: 6N Range: 1W

on: Mon, Aug 01, 1966

Section: NE 1/4 of the NE 1/4 of the NE 1/4 of Section 31

Topo map: OOLITIC

Field located by: JCH

on:

Courthouse location by:

on

Location accepted w/o verification by:

Lot number: Ft E of WL

Ft S of NL: 400

Ft W of EL: 100 Ground elevation: 640 0

Subdivision name:

Ft N of SL. Depth to bedrock

Bedrock elevation.

Aquifier elevation:

UTM Easting: 538675 0

UTM Northing: 4307517 0

Well Log

| Тор  | Bottom | Formation   |
|------|--------|-------------|
| 0 0  | 6 0    | DIRT        |
| 6 0  | 20 0   | WHEI LER LS |
| 20 0 | 79 0   | WHITE LS    |

Comments

266

| 223250                                  |                                           |             |                                                     |                                                |                    |  |
|-----------------------------------------|-------------------------------------------|-------------|-----------------------------------------------------|------------------------------------------------|--------------------|--|
|                                         |                                           |             |                                                     | Т                                              | ue, Jul 20, 1954   |  |
| Owner-Contractor Well Owner             | Name<br>WENDELL TURNER                    | A           | Address                                             | 7                                              | `elephone          |  |
| Building Contractor Drilling Contractor | HOMER ALFORD                              | R           | R3 MITHCELL                                         |                                                |                    |  |
| Equipment Operator                      |                                           | L           | icense.                                             |                                                |                    |  |
| Construction Details                    |                                           |             |                                                     |                                                |                    |  |
| Well                                    | Use: HOME                                 | D           | Prilling method: CABLE TOOL                         | Pump type:                                     |                    |  |
|                                         | Depth: 95 0                               |             | ump setting depth:                                  | Water quality:                                 |                    |  |
| Casing<br>Screen                        | Length: 17.0<br>Length:                   |             | laterial:<br>laterial:                              | Diameter: 6 0<br>Diameter: Slot si             | ze:                |  |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft.            |             | Test rate: gpm for hrs. Static water level: 45 0 ft | BailTest rate:                                 | 3 0 gpm for hrs    |  |
| Grouting Information                    | Material:                                 |             | De                                                  | Depth: from to                                 |                    |  |
| Ç ,                                     | Installation Method:                      |             | Nu                                                  | mber of bags used:                             |                    |  |
| Well Abandonment                        | Sealing material:<br>Installation Method: |             | •                                                   | oth: from to<br>mber of bags used:             |                    |  |
| Administrative                          | County: LAWRENCE                          | CC 1/4 - 6  | NE MA CENA 21                                       | Township: 6N Range: 1V                         |                    |  |
|                                         |                                           | SE 1/4 of   | the NE 1/4 of Section 31                            | T + 00 1070                                    | Topo map: OOLITIC  |  |
|                                         | Field located by: JRD                     |             |                                                     | on: Tue, Aug 08, 1978                          |                    |  |
|                                         | Courthouse location by                    |             | ,                                                   | on:                                            |                    |  |
|                                         | Location accepted w/o                     | rerificatio | n by:                                               | on:                                            |                    |  |
|                                         | Subdivision name:                         |             | Ft N of SL:                                         | Lot number:  Ft E of WL:                       | E4 C = 6 NI - 1400 |  |
|                                         | Ft W of EL: 700                           | 2           | •                                                   | •                                              | Ft S of NL: 1400   |  |
|                                         | Ground elevation: 615 (                   |             | Depth to bedrock: 150                               | Bedrock elevation: 600 0 UTM Northing: 4307218 | Aquifier elevation |  |
|                                         | UTM Easting: 538486 (                     | ,           |                                                     | O1.VI NOTINING: 410/218                        | O .                |  |
| Well Log                                | Тор                                       | Bottom      | Formation                                           |                                                |                    |  |
|                                         | 0 0                                       | 15 0        | OVERBURDEN C                                        | LAY ROCK                                       |                    |  |
|                                         | 15 0                                      | 170         | SOLID ROCK                                          |                                                |                    |  |
|                                         | 17 0                                      | 95 0        | l S                                                 |                                                |                    |  |
| Comments                                | MC600 WELL HAS IN                         | 0.071.61    | SERVE CAP OWNER VERIFE                              | D/LS' S OF HOUSE                               |                    |  |

Comments CHEMICAL ANALYSIS

#### Record of Water Well

267

#### Indiana Department of Natural Resources

| 22225                                    | Driving directions to wel      | •                           |                                | Date completed      |  |
|------------------------------------------|--------------------------------|-----------------------------|--------------------------------|---------------------|--|
| 223255                                   | 25' W OF BIOLOGIST'S RESIDENCE |                             |                                |                     |  |
| Owner-Contractor                         | Name                           | Address                     |                                | Telephone           |  |
| Well Owner                               | DNR AVOCA FISH<br>HATCHERY     | AVOCA, IN                   |                                |                     |  |
| Building Contractor  Drilling Contractor |                                |                             |                                |                     |  |
| Equipment Operator                       |                                | License:                    |                                |                     |  |
| Construction Details                     |                                |                             |                                |                     |  |
| Well                                     | Use:                           | Drilling method:            | Pump type:                     |                     |  |
|                                          | Depth: 130 0                   | Pump setting depth:         | Water quality.                 |                     |  |
| Casing<br>Screen                         | Length:<br>Length:             | Material:<br>Material:      | Diameter: 6 0<br>Diameter: Slo |                     |  |
| Well Capacity Test                       | Type of test:                  | Test rate: 6 0 gpm for hrs  | BailTest ra                    | te: gpm for hrs     |  |
|                                          | Drawdown: ft.                  | Static water level: 25 0 ft |                                |                     |  |
| Grouting Information                     | Material:                      | De                          | epth: from to                  |                     |  |
|                                          | Installation Method:           | Nu                          | imber of bags used:            |                     |  |
| Well Abandonment                         | Sealing material:              | De                          | epth: from to                  |                     |  |
|                                          | Installation Method:           | Nu                          | umber of bags used:            |                     |  |
| Administrative                           | County: LAWRENCE               |                             | Township: 6N Range:            | ıw                  |  |
|                                          | Section: 1/4 of the 1/4 of     | the SW 1/4 of Section 32    |                                | Topo map: OOLITIC   |  |
|                                          | Field located by:              |                             | on:                            |                     |  |
|                                          | Courthouse location by:        |                             | on:                            |                     |  |
|                                          | Location accepted w/o ve       | rification by:              | on:                            |                     |  |
|                                          | Subdivision name:              |                             | Lot number:                    |                     |  |
|                                          | Ft W of EL:                    | Ft N of SL:                 | Ft E of WL:                    | Ft S of NL:         |  |
|                                          | Ground elevation:              | Depth to bedrock:           | Bedrock elevation:             | Aquifier elevation: |  |
|                                          | UTM Easting: 539177 0          |                             | UTM Northing: 43065            | 598 0               |  |
|                                          | OTH Easing. 337177 0           |                             | 8                              |                     |  |

NO INFORMATION

# Record of Water Well Indiana Department of Natural Resources

| Owner-Contractor Well Owner  Depth: 98 0  Depth: 98 0  Length: Material:  Drawdown: ft  Telephone  Address  Telephone  Address  Telephone  Telephone  RR3 MITHCELL  License  Construction Details  Well Use: HOME Drilling method: CABLE TOOL Pump type.  Depth: 98 0  Pump setting depth: Water quality:  Diameter: 5 63  Diameter: 5 63  Diameter: 5 63  Diameter: 5 60 ppin for 0 5 hrs  Drawdown: ft  Static water level: 32 0 ft  Grouting Information  Material:  Installation Method:  Well Abandonment  Sealing material:  Installation Method:  Number of bags used:  Administrative  County: LAWRENCE  Township. 6N Range: 1W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Reference Number 223260 | Driving directions to w | ell                                | Date completed                             |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|------------------------------------|--------------------------------------------|--|--|
| Well Owner BARRETT SOUTH AVOCA Building Contractor Drilling Contractor Drilling Contractor Drilling Contractor Equipment Operator Equipment Operator  Construction Details Well Use: HOME Drilling method: CABLE TOOL Pump type. Depth: 98 0 Pump seeting depth: Water quality: Depth: 98 0 Pump seeting depth: Water quality: Depth: 98 0 Pump seeting depth: Water quality: Depth: 10 Diameter: 5 63 Diameter: 5 64 Diame |                         |                         |                                    | Thu, May 31, 1951                          |  |  |
| Dalling Contractor Equipment Operator  Equipment Operator  Construction Details  Well  Well  Use: HOME Depth: 98 0 Pump setting depth: Mater quality: Length: Material: Diameter: 563 Diameter: 563 Diameter: 563 Diameter: 510 size.  Well Capacity Test  Type of test: Drawdown: ft Static water level: 32 0 ft  Grouting Information  Material: Installation Method:  Well Abandonment  Sealing material: Installation Method:  Number of bags used:  Mulministrative  County: LAWRENCE Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31 Field located by. JRD Courthouse location by Counthouse location by Depth: On Tue Aug 08, 1978 Courthouse location by Depth on Tue Aug 08, 1978 Courthouse location by Decation accepted w/o verification by Subdivision name. Fit W of EL 700 Fit N of SL: 850 Fit E of WL Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation 596 0 LTM Northing 4306322 0  Well Log Top BOUGH Formation  O O 44 5 OVERBURDERN CLAY BOUL DERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Well Owner              |                         |                                    | Telephone                                  |  |  |
| Equipment Operator  License  Construction Details  Well Use: HOME Drilling method: CABLE TOOL Pump type.  Depth: 98 0 Pump setting depth: Water quality:  Casing Length: 44 5 Material: Diameter: 5 63 Screen Length: Material: Diameter: 5 63  Screen Screen Length: Material: Diameter: 5 63  Well Capacity Test Type of test: Test rate. gpm for hrs BailTest rate: 5 0 gpm for 0.5 hrs  Drawdown: ft Static water level: 32 0 ft  Grouting Information Material: Depth: from 10  Installation Method: Number of bags used:  Well Abandonment Sealing material: Depth. from to  Installation Method: Number of bags used:  Administrative County: LAWRENCE Township. 6N Range: 1W  Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31 Topo map OOLITIC  Field located by. IRD on Tue Aug 08, 1978  Courthouse location by on  Location accepted w/o verification by on  Location accepted w/o verification by  Subdivision name.  FI W of EL 700 Ft N of SL: 850 Ft E of WL  Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation 596 0 Aquifier elevation  UTM Scring 38506 0 UTM Northing 4306322 0  Well Log Top Bottom Formation  O 0 44 5 OVERBURDERN CLAY BOUL DERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         | HOMER ALFORD            | RR3 MITHCELL                       |                                            |  |  |
| Well Use: HOME Depth: 98 0 Pump setting depth: Water quality: Casing Length: 44 5 Material: Diameter: 5 63 Length: Material: Diameter: 5 10 pum for 0.5 hrs Well Capacity Test Type of test: Test rate. gpm for hrs Drawdown: ft Static water level: 32 0 ft  Grouting Information Material: Depth: from to Installation Method: Number of bags used:  Well Abandonment Sealing material: Depth: from to Installation Method: Number of bags used:  Madministrative Country: LAWRENCE Township. 6N Range: 1W Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31 Topo map OOLITIC Field located by. JRD on Tue Aug 08, 1978 Courthouse location by on: Subdivision name. Lot number Fit W of EL 700 Ft N of SL: 850 Ft E of WL Ft S of NL Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation 596 0 Aquifier elevation UTM Easting: 538506 0 UTM Northing: 4306322 0  Well Log  Top Bottom Formation  OO 44 5 OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <del>-</del>            |                         | License                            |                                            |  |  |
| Depth: 98 0 Pump setting depth: Water quality: Length: 44 5 Material: Diameter: 5 63 Length: Material: Diameter: Slot size.  Well Capacity Test Type of test: Test rate. gpm for hrs BailTest rate: 5 0 gpm for 0 5 hrs Drawdown: ft Static water level: 32 0 ft  Grouting Information Material: Depth: from to Installation Method: Number of bags used:  Well Abandonment Sealing material: Depth. from to Installation Method: Number of bags used:  Administrative County: LAWRENCE Township. 6N Range: 1W Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31 Topo map OOLITIC Field located by. IRD on fue Aug 08, 1978 Courthouse location by on Location accepted w/o verification by Subdivision name. Fit W of EL 700 Fit N of SL: 850 Fit E of WL Fit S of NL Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation: 596 0 Aquifier elevation LTM Easting \$38506 0 LTM Northing 4300322 0  Well Log Top Bottom Formation  O O 44 5 OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Construction Details    |                         |                                    |                                            |  |  |
| Casing Creen Length: 44.5 Material: Diameter: 5.63  | Well                    | Use: HOME               | Drilling method: CABLE             | TOOL Pump type.                            |  |  |
| Reference   Length:   Material:   Diameter: Slot size.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         | Depth: 98 0             | Pump setting depth:                | Water quality:                             |  |  |
| Drawdown ft Static water level: 32 0 ft  Grouting Information Material: Depth from to Number of bags used:  Well Abandonment Sealing material: Depth from to Number of bags used:  Maministrative County: LAWRENCE Township. 6N Range: 1W Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31 Topo map. OOLITIC Field located by. JRD on Tue Aug 08, 1978  Courthouse location by on Location accepted w/o verification by on:  Subdivision name. Lot number  Ft W of EL 700 Ft N of SL: 850 Ft E of WL Ft S of NL Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation 596 0 Aquifier elevation UTM Easting \$38506 0 UTM Northing \$4306322 0  Well Log Top Bottom Formation  Top Bottom Formation  O O 44 5 OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |                         |                                    |                                            |  |  |
| Installation Method:  Well Abandonment  Sealing material: Installation Method:  Depth. from to Number of bags used:  Administrative  County: LAWRENCE Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31  Field located by. JRD On Tue Aug 08, 1978  Courthouse location by On Location accepted w/o verification by Subdivision name. Fit W of EL 700 Fit N of SL: 850 Fit E of WL Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation 596 0 Aquifier elevation UTM Northing 4306322 0  Well Log  Top Bottom Formation  OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Well Capacity Test      |                         | <del>-</del> -                     |                                            |  |  |
| Well Abandonment  Sealing material: Installation Method:  County: LAWRENCE Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31  Field located by. JRD  Courthouse location by Location accepted w/o verification by Subdivision name. Fit W of EL 700 Fit Nof SL: 850 Fit E of WL Ground elevation 640 0  Depth to bedrock: 44 0  Bedrock elevation 596 0  LTM Northing 4306322 0  Well Log  Top Bottom Formation  OURSUNDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Grouting Information    | Material ·              |                                    | Depth · from to                            |  |  |
| Installation Method:  County: LAWRENCE Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31  Topo map OOLITIC Field located by. JRD On Tue Aug 08, 1978  Courthouse location by on Location accepted w/o verification by Subdivision name. Ft W of EL 700 Ft N of SL: 850 Ft E of WL Ft S of VL Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation 596 0 Aquifier elevation UTM Easting 538506 0  Vell Log  Top Bottom Formation  O VERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         | Installation Method:    |                                    | Number of bags used                        |  |  |
| Administrative  County: LAWRENCE Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31 Field located by. JRD On Tue Aug 08, 1978 Courthouse location by On Location accepted w/o verification by Subdivision name. Fit W of EL 700 Fit N of SL: 850 Fit E of WL Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation 596 0 Aquifier elevation UTM Easting 538506 0  Vell Log  Top Bottom Formation  O VERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Well Abandonment        | -                       |                                    | -                                          |  |  |
| Section NW 1/4 of the SE 1/4 of the SE 1/4 of Section 31  Field located by. JRD  Courthouse location by  Location accepted w/o verification by  Subdivision name.  Fit W of EL 700  Ground elevation 640 0  Depth to bedrock: 44 0  Bedrock elevation 596 0  LTM Northing 4306322 0  Well Log  Top  Bottom  Formation  OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         | Installation Method:    |                                    | Number of bags used:                       |  |  |
| Field located by. JRD  Courthouse location by  Location accepted w/o verification by  Subdivision name.  Ft W of EL 700  Ground elevation 640 0  Depth to bedrock: 44 0  Bedrock elevation 596 0  Aquifier elevation  UTM Easting 538506 0  Vell Log  Top  Bottom  Formation  OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Administrative          | •                       |                                    |                                            |  |  |
| Courthouse location by  Location accepted w/o verification by  Subdivision name.  Ft W of EL 700  Ft N of SL: 850  Ft E of WL  Ground elevation 640 0  Depth to bedrock: 44 0  Bedrock elevation 596 0  Aquifier elevation  UTM Easting 538506 0  Vell Log  Top  Bottom  Formation  OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                         | SE 1/4 of the SE 1/4 of Section 31 | Topo map OOLITIC                           |  |  |
| Location accepted w/o verification by  Subdivision name.  Ft W of EL 700  Ft Nof SL: 850  Ft E of WL  Ground elevation 640 0  Depth to bedrock: 44 0  Bedrock elevation 596 0  Aquifier elevation  UTM Easting 538506 0  Vell Log  Top  Bottom  Formation  OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         | Field located by. JRD   |                                    | on Tue Aug 08, 1978                        |  |  |
| Subdivision name.  Ft W of EL 700  Ft N of SL: 850  Ft E of WL  Ground elevation 640 0  Depth to bedrock: 44 0  Bedrock elevation 596 0  Aquifier elevation  UTM Formation  Top  Bottom  Formation  O 0 44 5  OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         | Courthouse location by  |                                    | on                                         |  |  |
| Ft W of EL 700 Ft N of SL: 850 Ft E of WL Ft S of NL  Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation 596 0 Aquifier elevation  UTM Easting 538506 0 UTM Northing 4306322 0  Vell Log Top Bottom Formation  0 0 44 5 OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         | Location accepted w/o v | erification by                     | on·                                        |  |  |
| Ground elevation 640 0 Depth to bedrock: 44 0 Bedrock elevation 596 0 Aquifier elevation  UTM Easting 538506 0 UTM Northing 4306322 0  Vell Log Top Bottom Formation  0 0 44 5 OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         | Subdivision name.       |                                    | Lot number                                 |  |  |
| Vell Log         Top         Bottom         Formation           0 0         44 5         OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         | Ft W of EL 700          | Ft N of SL: 850                    | Ft E of WL Ft S of NL                      |  |  |
| Vell Log Top Bottom Formation  0 0 44 5 OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         | Ground elevation 640 0  | Depth to bedrock: 44 (             | Bedrock elevation 596 0 Aquifier elevation |  |  |
| 0 0 44 5 OVERBURDERN CLAY BOULDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         | UTM Easting 538506 0    |                                    | UTM Northing 4306322 0                     |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Vell Log                | Тор Е                   | ottom Formation                    |                                            |  |  |
| 44 5 98 0 LS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         | 0 0                     | 4.5 OVERBUR                        | DERN CLAY BOULDERS                         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         | 44.5 9                  | 8 0 LS                             |                                            |  |  |



| Reference Number                        | Driving directions to well                 | a varies a basisabeth au y deur mei dans grapa.  | effecte peeds eléfri er de sink serden | Date completed                        |
|-----------------------------------------|--------------------------------------------|--------------------------------------------------|----------------------------------------|---------------------------------------|
| 223265                                  | AP 2 MI W OF AVOCA IND                     |                                                  |                                        | Tue Jun 07 1960                       |
| Owner Contractor                        | Name                                       | Address                                          |                                        | Telephone                             |
| Well Owner                              | GAROLD BRENT (ASK E<br>TURNER)             | SPRINGVILLE IND RR 6                             |                                        |                                       |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                      | RR 6 BOX 13 REDFORD                              |                                        |                                       |
| Equipment Operator                      | ERNIE UMPHRESS & SONS                      |                                                  |                                        |                                       |
| Construction Details                    |                                            |                                                  |                                        |                                       |
| Weii                                    | Use HOME                                   | Drilling method CABLE TOOL                       | Pump type                              |                                       |
|                                         | Depth 121 0                                | Pump setting depth                               | Water quality                          |                                       |
| Casing<br>Screen                        | Length 66 7<br>Length                      | Material<br>Material                             | Diameter 60<br>Diameter Slo            |                                       |
| Well Capacity Test                      | Type of test<br>Drawdown st                | Test rate gpm for hrs Static water level 71 0 ft | BailTest ra                            | tte 1 5 gpm for 1 0 hrs               |
| Grouting Information                    | Material<br>Installation Method            | -                                                | th from to nber of bags used           |                                       |
| Well Abandonment                        | Sealing material                           | Dep                                              | th from to                             |                                       |
|                                         | Installation Method                        | Nun                                              | nber of bags used                      |                                       |
| Administrative                          | County LAWRENCE                            |                                                  | Township 6N Range                      |                                       |
|                                         | Section SE 1/4 of the NW 1/4               | of the NE 1/4 of Section 31                      |                                        | Topo map OOLITIC                      |
|                                         | Field located by BARNES                    |                                                  | on Fn Jul 01 1960                      |                                       |
|                                         | Courthouse location by                     |                                                  | on                                     |                                       |
|                                         | Location accepted w/o verifica             | tion by NO                                       | on                                     |                                       |
|                                         | Subdivision name                           | Et N - CCI                                       | Lot number                             | Er S - F.M. 1100                      |
|                                         | Ft W of EL. 1800<br>Ground elevation 650 0 | Ft N of SL.<br>Depth to bedrock                  | Ft E of WL<br>Bedrock elevation        | Ft S of NL 1100<br>Aquifier elevation |
|                                         | UTM Easting 538145 0                       | Depin to bear ock                                | UTM Northing 4"07                      |                                       |
| Well Log                                | Top Bottom                                 | Formation                                        |                                        |                                       |
| Ţ.                                      | 0 0 65 0                                   | DIRT & LAYERS C                                  | PFLS                                   |                                       |
|                                         | 65 0 101 0                                 | BUFF LS SOFT                                     |                                        |                                       |
|                                         | 101 0 121 0                                | WH LS HARD                                       |                                        |                                       |
| Comments                                | M(                                         |                                                  |                                        |                                       |

| Reference Number                         | Driving directions                   | to well               | A C 40 C C 40 C 40 C 40 C 40 C 40 C 40 C | na .and na 31                 | Date completed       |
|------------------------------------------|--------------------------------------|-----------------------|------------------------------------------|-------------------------------|----------------------|
| 223270                                   | APP 2 MI W OF A<br>1/2 MI S ON E SIE |                       | IS HIGHWAY 54 TO 1ST                     | RDS TOWNSHIP RD APF           | Wed, Nov 11, 1964    |
| Owner-Contractor Well Owner              | <i>Name</i><br>DOYLE JONES           | <i>Addre</i><br>SPRIN | ss<br>Gville rr 1                        |                               | Telephone            |
| Building Contractor  Drilling Contractor | ERNIE UMPHRES                        | S & SONS RR 6 E       | OX 13 BEDFORD                            |                               |                      |
| Equipment Operator                       | EUGENE & CHAR<br>UMPHRESS            | LES Licenso           | e                                        |                               |                      |
| Construction Details                     |                                      |                       |                                          |                               |                      |
| Vell                                     | Use· HOME                            |                       | g method CABLE TOOL                      | Pump type                     |                      |
| 3                                        | Depth: 108 0                         | Pump .<br>Materi      | setting depth·                           | Water qualit<br>Diameter: 6 ( |                      |
| Casing<br>Screen                         | Length: 69 5<br>Length:              | Materi                |                                          | Diameter Sl                   |                      |
| Well Capacity Test                       | Type of test:                        |                       | Test rate: gpm for hrs                   |                               | ate: 0 9 gpm for hrs |
|                                          | <i>Drawdown</i> . ft                 |                       | Static water level 68 0 ft               |                               |                      |
| Grouting Information                     | Material:                            |                       | D                                        | epth: from to                 |                      |
|                                          | Installation Method                  | <b>!</b> :            | N                                        | umber of bags used            |                      |
| Vell Abandonment                         | Sealing material:                    |                       |                                          | epth: from to                 |                      |
|                                          | Installation Method                  | l:                    | N                                        | umber of bags used            |                      |
| Administrative                           | County: LAWRENG                      |                       |                                          | Township: 6N Range            | · IW                 |
|                                          | Section: SW 1/4 of                   | the NW 1/4 of the N   | NW 1/4 of Section 31                     |                               | Topo map OOLITIC     |
|                                          | Field located by. 30                 | CH                    |                                          | on Mon, Aug 01, 196           | 56                   |
|                                          | Courthouse location                  | ı by·                 |                                          | on·                           |                      |
|                                          | Location accepted w                  | v/o verification by:  |                                          | on                            |                      |
|                                          | Subdivision name:                    |                       |                                          | Lot number                    |                      |
|                                          | Ft W of EL.                          |                       | Ft N of SL                               | Ft E of WL 100                | Ft S of NL · 1200    |
|                                          | Ground elevation (                   | 570 0                 | Depth to bedrock                         | Bedrock elevation             | Aquifier elevation   |
|                                          | UTM Easting. 5386                    | 75 0                  |                                          | UTM Northing 4307             | 274 0                |
| Vell Log                                 | Тор                                  | Bottom                | Form, tion                               |                               |                      |
|                                          | 0 0                                  | 5 0                   | DIR [                                    |                               |                      |
|                                          | 5 0                                  | 70 0                  | 1.5 BOULDERS &                           | . MUD HOLES                   |                      |
|                                          | 70 0                                 | 79 0                  | BI UF IS HARD                            |                               |                      |
|                                          | 79 0                                 | 85 0                  | GRAY IS SOFT                             |                               |                      |
|                                          |                                      |                       |                                          |                               |                      |

#### Record of Water Well

| Reference Number                        | Driving direction                    | ns to well     | atrimatica y activity. Nametry in the Astronomy of a sec | many and an extension of the property of the p | Date completed        |
|-----------------------------------------|--------------------------------------|----------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 223275                                  | AVOCA IND A                          | APP. 2 BLOCK   | S N OF US POST OFFICE ON                                 | SR54 E SIDE OF RD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Wed, Sep 25, 1963     |
| Owner-Contractor Well Owner             | <i>Name</i><br>CLOVIS MAY            |                | Address<br>AVOCA IND                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Telephone             |
| Building Contractor Drilling Contractor |                                      |                | RR 6 BOX 13 BEDFORD IND                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |
| Equipment Operator                      | EUGENE & CH<br>UMPHRESS              | ARLES          | License.                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |
| Construction Details                    |                                      |                |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |
| Well                                    | Use: HOME                            |                | Drilling method: CABLE TOO                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |
| Comme                                   | Depth: 128 0                         |                | Pump setting depth:                                      | Water qualit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |
| Casing<br>Screen                        | Length: 6.3<br>Length:               |                | Material:<br>Material:                                   | Diameter: 6<br>Diameter: Sl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft.       |                | Test rate: gpm for hrs.<br>Static water level: 20 0      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ate: 1 0 gpm for hrs. |
| Grouting Information                    | Material:<br>Installation Met        | hod:           |                                                          | Depth: from to Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |
| Well Abandonment                        | Sealing material<br>Installation Met |                |                                                          | Depth: from to Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |
| Administrative                          | County: LAWR                         | ENCE           |                                                          | Township: 6N Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | :: 1W                 |
|                                         | Section: NE 1/4                      | of the SW 1/4  | of the NW 1/4 of Section 32                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Topo map: OOLITIC     |
|                                         | Field located by:                    | JCH            |                                                          | on: Mon, Aug 01, 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 66                    |
|                                         | Courthouse loca                      | tion by:       |                                                          | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |
|                                         | Location accepte                     | d w/o verifica | tion by:                                                 | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |
|                                         | Subdivision nam                      | e:             |                                                          | Lot number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |
|                                         | Ft W of EL:                          |                | Ft N of SL:                                              | Ft E of WL: 700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ft S of NL: 1830      |
|                                         | Ground elevation                     | ı: 560 O       | Depth to bedrock:                                        | Bedrock elevation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Aquifier elevation:   |
|                                         | UTM Easting: 53                      | 38919.0        |                                                          | UTM Northing: 4307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 085 0                 |
| Well Log                                | Тор                                  | Bottom         | Formation                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |
|                                         | 0 0                                  | 3 0            | DIRT                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |
|                                         | 3 0                                  | 12 0           | BLUF LS HARI                                             | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |
|                                         | 120                                  | 37 0           | GRAY LS SOF                                              | Γ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |
|                                         | 37.0                                 | 48 0           | BLUE LS SOFT                                             | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |
|                                         | 48 0                                 | 61 0           | GRAY LS SOF                                              | Γ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |
|                                         | 61 0                                 | 99 ()          | BI UE LS SOFT                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |
|                                         | 99 0                                 | 128 0          | GRAY LS HAR                                              | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |
| Comments                                |                                      |                | سات ست سده د د د د د د                                   | ta a samur paga a del                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |

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#### Record of Water Well

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| Reference Number                         | Driving directions to                       | well             |                                                      |                               | Date completed           |
|------------------------------------------|---------------------------------------------|------------------|------------------------------------------------------|-------------------------------|--------------------------|
| 223280                                   | ADJOINING AVOCA STATE FISH HATCHERY ON EAST |                  |                                                      |                               | Fn, Jul 29, 1960         |
| Owner-Contractor                         | <i>Name</i><br>HOMER ROLLINS                |                  | lress<br>DCA IND                                     |                               | Telephone                |
| Building Contractor  Drilling Contractor | ERNIE UMPHRESS                              | & SONS RR        | 6 BOX 13 BEDFORD IND.                                |                               |                          |
| Equipment Operator                       | ERNIE UMPHRESS                              | & SONS Lice      | ense:                                                |                               |                          |
| Construction Details                     |                                             |                  |                                                      |                               |                          |
| Well                                     | Use: HOME                                   | Dril             | ling method: CABLE TOOL                              | Pump type:                    |                          |
|                                          | Depth: 119.0                                | Pum              | p setting depth:                                     | Water quality                 | :                        |
| Casing<br>Screen                         | Length: 100<br>Length:                      |                  | enal:<br>erial:                                      | Diameter: 60<br>Diameter: Slo |                          |
| Well Capacity Test                       | Type of test: Drawdown: ft.                 |                  | Test rate: gpm for hrs.  Static water level: 14.0 ft | BailTest ro                   | nte: 0 5 gpm for 1 0 hrs |
| Grouting Information                     | Material:                                   |                  |                                                      | epth: from to                 |                          |
|                                          | Installation Method:                        |                  | N                                                    | umber of bags used:           |                          |
| Well Abandonment                         | Sealing material:                           |                  | D                                                    | epth: from to                 |                          |
|                                          | Installation Method:                        |                  | N                                                    | umber of bags used:           |                          |
| Administrative                           | County: LAWRENCE                            | 3                |                                                      | Township: 6N Range:           | 1 <b>w</b>               |
|                                          | Section: NE 1/4 of the                      | e NW 1/4 of the  | SW 1/4 of Section 32                                 |                               | Topo map · OOLITIC       |
|                                          | Field located by: S &                       | Н                |                                                      | on: Tue, Nov 01, 1960         | )                        |
|                                          | Courthouse location                         | by:              |                                                      | on:                           |                          |
|                                          | Location accepted w/                        | o verification b | y.                                                   | on:                           |                          |
|                                          | Subdivision name:                           |                  |                                                      | Lot number:                   |                          |
|                                          | Ft W of EL:                                 |                  | Ft N of SL: 2500                                     | Ft E of WL. 1000              | Ft S of NL:              |
|                                          | Ground elevation: 56                        | 5 0              | Depth to bedrock:                                    | Bedrock elevation:            | Aquifier elevation       |
|                                          | UTM Easting: 53901                          | 7 0              |                                                      | UTM Northing: 43068           | 360 0                    |
| ell Log                                  | Тор                                         | Bottom           | Formation                                            |                               |                          |
|                                          | 0 0                                         | 3 ()             | DIRT                                                 |                               |                          |
|                                          | 3 0                                         | 8.0              | SHELLIE LS                                           |                               |                          |
|                                          | 8 0                                         | 4() )            | BLUE LS                                              |                               |                          |
|                                          | 40 0                                        | 100              | WH LS                                                |                               |                          |
|                                          | 0 00 1                                      | 119 )            | BLUE LS HARD                                         |                               |                          |
|                                          | MC                                          |                  |                                                      |                               |                          |

| Reference Number                        | Driving directions to we                  | ell                    | en krigerapping, je entre dilene en i            | and the section and surregulative at age | Date completed       |
|-----------------------------------------|-------------------------------------------|------------------------|--------------------------------------------------|------------------------------------------|----------------------|
| 223285                                  | E SIDE OF AVOCA 1/4                       | Thu, Dec 01, 1966      |                                                  |                                          |                      |
| Owner-Contractor Well Owner             | <i>Name</i><br>MAURICE GRAVES             | <b>Address</b><br>AVOC |                                                  |                                          | Telephone            |
| Building Contractor Drilling Contractor | RAY E ALFORD                              | RR 2 M                 | ITCHELL                                          |                                          |                      |
| Equipment Operator                      | RAYE ALFORD                               | License                |                                                  |                                          |                      |
| Construction Details                    |                                           |                        |                                                  |                                          |                      |
| Well                                    | Use: HOME                                 | Drilling               | method: CABLE TOOL                               | Pump type:                               |                      |
|                                         | Depth: 117 0                              | -                      | etting depth:                                    | Water quality                            |                      |
| Casing<br>Screen                        | Length. 28 0<br>Length:                   | Materia<br>Materia     |                                                  | Diameter: 6 63<br>Diameter: Slot         | size:                |
| Well Capacity Test                      | Type of test:<br>Drawdown. ft             |                        | Test rate: gpm for hrs<br>Static water level: ft | BailTest rat                             | e: 70 gpm for hrs    |
| Grouting Information                    | Material:                                 |                        | -                                                | oth: from to                             |                      |
|                                         | Installation Method:                      |                        | Nu                                               | mber of bags used·                       |                      |
| Well Abandonment                        | Sealing material.<br>Installation Method: |                        | -                                                | oth: from to<br>mber of bags used:       |                      |
| Administrative                          | County: LAWRENCE Section SE 1/4 of the N  | W I/4 of the N\        | V 1/4 of Section 32                              | Township: 6N Range:                      | IW  Topo map OOLITIC |
|                                         | Field located by: JRD                     |                        |                                                  | on: Tue Aug 08, 1978                     | 157157 0000          |
|                                         | Courthouse location by                    |                        |                                                  | on.                                      |                      |
|                                         | Location accepted w/o ve                  | erification by:        |                                                  | on.                                      |                      |
|                                         | Subdivision name:                         | ,                      |                                                  | Lot number                               |                      |
|                                         | Ft W of EL.                               | F                      | N of SL:                                         | Ft E of WL 1000                          | Ft S of NL 900       |
|                                         | Ground elevation 615 0                    | De                     | epth to bedrock. 80                              | Bedrock elevation 607                    | 0 Aquifier elevation |
|                                         | UTM Easting: 538992 0                     |                        |                                                  | UTM Northing, 430735                     | 9 0                  |
| Well Log                                | Top B                                     | Sottom                 | Formation                                        |                                          |                      |
| -                                       | 0 0 8                                     | 0                      | SOIL CLAY                                        |                                          |                      |
|                                         | 8 0 2                                     | 8 0                    | SHELLY LIME & S                                  | SS                                       |                      |
|                                         | 28 0                                      | 7 ()                   | GRAY LIME MD                                     |                                          |                      |
|                                         | 87 0                                      | 17.0                   | WH LIME MD                                       |                                          |                      |
|                                         |                                           |                        |                                                  |                                          |                      |

#### Record of Water Well

| Reference Number                                | Driving directions to well                             | r modem i to loomed one on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | to a service distinguishment of the development of | Date completed                           |
|-------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 223290                                          | AVOCA SR54 ACROSS FR                                   | OM BRANCH EAST STATE F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ISH HATCHERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mon, Oct 05, 1959                        |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>LEX FRANKLIN                            | Address<br>AVOCA IND.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Telephone                                |
| Drilling Contractor                             | ERNIE UMPHRESS & SON                                   | S RR 6 BOX 13 BEDFORD IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |
| Equipment Operator                              | ERNIE UMPHRESS & SON                                   | S License:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| Construction Details                            |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| Well                                            | Use: HOME                                              | Drilling method: CABLE TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OOL Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
|                                                 | Depth: 89 0                                            | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | v.                                       |
| Casing<br>Screen                                | Length: 9 0<br>Length:                                 | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter: 60<br>Diameter: Slo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |
| Well Capacity Test                              | Type of test:                                          | Test rate: gpm for hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ate: 1 2 gpm for 1 0 hrs.                |
|                                                 | Drawdown: 68.0 ft.                                     | Static water level: 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .O tt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |
| Grouting Information                            | Material:                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
| 5 .                                             | Installation Method:                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |
| Well Abandonment                                | ' zaling material:                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
|                                                 | ns allation Method:                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |
| Administrative                                  | County: LAWRENCE                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township: 6N Range:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |
|                                                 | Section: SW 1/4 of the NE 1/4 Field located by: BARNES | 4 of the SW 1/4 of Section 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | on: Fn, Jul 01, 1960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Topo map: OOLITIC                        |
|                                                 | Courthouse location by:                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |
|                                                 | Location accepted w/o verific                          | ation by: NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |
|                                                 | Subdivision name:                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |
|                                                 | Ft W of EL: 3650                                       | Ft N of SL: 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ft E of WL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ft S of NL:                              |
|                                                 | Ground elevation: 560 0                                | Depth to bedrock:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bedrock elevation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Aquifier elevation:                      |
|                                                 | UTM Easting: 539231 0                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing, 43066                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 522 0                                    |
| Well Log                                        | Top Bottor                                             | m Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
|                                                 | 0 0 3 0                                                | DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
|                                                 | 3 0 7 0                                                | BROKEN LS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
|                                                 | 7 () 40 0                                              | GRAY LIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SOFI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |
|                                                 | 40 0 60 0                                              | BLUE LIME S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | OFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |
|                                                 | 60.0                                                   | BUFF SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| Comments                                        | MC580                                                  | The state of the s |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ange . ) or sa Brownia i make water wage |

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| and the second s |                                             | ) attended to the control of the control of | er Carrier S. Asset Flat            | the second of the second second |
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| Reference Number 223295                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Driving directions to well                  |                                             |                                     | Date completed                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ACROSS THE STREET F                         | ROM AVOCA BAPTIST CHURCH                    | PARSONAGE                           | Wed, May 04, 1960               |
| Owner-Contractor Well Owner Building Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <i>Name</i><br>RUSSEL TURNER                | Address                                     |                                     | Telephone                       |
| Drilling Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | WINFRED PHILLIPS                            | RR #5 BEDFORD IND.                          |                                     |                                 |
| Equipment Operator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WINFRED PHILLIPS                            | License:                                    |                                     |                                 |
| Construction Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |                                             |                                     |                                 |
| Well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Use: HOME                                   | Drilling method: CABLE TOO                  | L Pump type:                        |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: 88 0                                 | Pump setting depth:                         | Water qualit                        |                                 |
| Casing<br>Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Length: 28 0<br>Length:                     | Material:<br>Material:                      | Diameter: 5<br>Diameter: Sl         |                                 |
| Well Capacity Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Type of test:                               | Test rate: gpm for hrs.                     | BailTest r                          | rate: gpm for hrs               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Drawdown: ft.                               | Static water level: 35 0                    | ft                                  |                                 |
| Grouting Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Material:                                   |                                             | Depth: from to                      |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Installation Method:                        |                                             | Number of bags used:                |                                 |
| Well Abandonment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sealing material:<br>Installation Method:   |                                             | Depth: from to Number of bags used: |                                 |
| Administrative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | County: LAWRENCE Section: SE, 1/4 of the SW | /4 of the NW 1/4 of Section 32              | Township: 6N Range                  | 2: 1W Topo map: OOLITIC         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Field located by: BARNES                    |                                             | on: Fri, Jul 01, 1960               |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Courthouse location by:                     |                                             | on:                                 |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Location accepted w/o verij                 | fication by: NO                             | on:                                 |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Subdivision name:                           | ·                                           | Lot number:                         |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ft W of EL:                                 | Ft N of SL:                                 | Ft E of WL: 1200                    | Ft S of NL: 2100                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ground elevation: 590 0                     | Depth to bedrock:                           | Bedrock elevation:                  | Aquifier elevation:             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Easting: 539078 0                       |                                             | UTM Northing: 4306                  | 5994 0                          |
| Vell Log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Top Bott                                    | om Formation                                |                                     |                                 |
| .,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0 0 28 0                                    | RED CLAY                                    |                                     |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 28 0 45 0                                   | BLUE LIMI                                   |                                     |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 45.0 65.0                                   | BR LIME                                     |                                     |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 65 0 88 0                                   | SOFT WHIPM                                  | F                                   |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                             |                                     |                                 |



| Reference Number     |                                                                                                                                                                                |                                                           |                                                         |                      |  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------|----------------------|--|
| 223300               | Driving directions to well                                                                                                                                                     | - the his regions bettern us great or factor to use about | a area of a section of the section of                   | Date completed       |  |
| 223300               | APP 5 MI NE OF AVOCA P                                                                                                                                                         | OST OFFICE AT AVOCA IND                                   | Thu Oct 21 1965                                         |                      |  |
| Owner-Contractor     | Name                                                                                                                                                                           | Address                                                   |                                                         | Telephone            |  |
| Well Owner           | ROBERT & THOMAS<br>BUNCH                                                                                                                                                       | AVOCA IND                                                 |                                                         |                      |  |
| Building Contractor  | BONCH                                                                                                                                                                          |                                                           |                                                         |                      |  |
| Drilling Contractor  | FRNIE UMPHRESS & SONS<br>EUGENE & CHARLES                                                                                                                                      | RR 6 BOX 13 BEDFORD                                       |                                                         |                      |  |
| Equipment Operator   | UMPHRESS                                                                                                                                                                       | License                                                   |                                                         |                      |  |
| Construction Details |                                                                                                                                                                                |                                                           |                                                         |                      |  |
| Well                 | Use HOME                                                                                                                                                                       | Drilling method CABLE TOOL                                | Pump type                                               |                      |  |
|                      | Depth 103 0                                                                                                                                                                    | Pump setting depth                                        | Water quality                                           |                      |  |
| Casing<br>Screen     | Length 750<br>Length                                                                                                                                                           | Material<br>Material                                      | Diameter 60<br>Diameter Slot                            | stze                 |  |
| Well Capacity Test   | Type of test                                                                                                                                                                   | Test rate gpm for hrs                                     | BailTest rat                                            | e gpm for hrs        |  |
|                      | Drawdown ft                                                                                                                                                                    | Static water level 90 0 ft                                |                                                         |                      |  |
| Grouting Information | Material                                                                                                                                                                       |                                                           | oth from to                                             |                      |  |
|                      | Installation Method                                                                                                                                                            | Nun                                                       | mber of bags used                                       |                      |  |
| Well Abandonment     | Sealing material<br>Installation Method                                                                                                                                        | ·                                                         | oth from to<br>mber of bags used                        |                      |  |
| Administrative       | County LAWRENCE Section NE 1/4 of the NW 1/4                                                                                                                                   | s of the NW 1/4 of Section 32                             | Township 6N Range                                       | IW  Topo map OOLITIC |  |
|                      | Field located by JCH                                                                                                                                                           |                                                           | on Mon Aug 01 1966                                      |                      |  |
|                      | Courthouse location by                                                                                                                                                         |                                                           | on                                                      |                      |  |
|                      | Location accepted w/o verifica                                                                                                                                                 | tion by                                                   | on                                                      |                      |  |
|                      |                                                                                                                                                                                |                                                           |                                                         |                      |  |
|                      | Subdivision name                                                                                                                                                               |                                                           | Lot number                                              |                      |  |
|                      | Subdivision name  Ft W of EL                                                                                                                                                   | Ft N of SL                                                | Lot number  Ft F of WL, 1200                            | Ft S of VI 600       |  |
|                      | Ft W of EL                                                                                                                                                                     | Ft N of SL  Depth to by drock                             | Ft F of WL 1200                                         | Ft S of NL. 600      |  |
|                      | Ft W of EL<br>Ground elevation 6400                                                                                                                                            | Ft N of SL<br>Depth to be drock                           | Ft F of WL 1200<br>Bedrick elevation                    | Aquifier elevation   |  |
|                      | Ft W of EL                                                                                                                                                                     |                                                           | Ft F of WL 1200                                         | Aquifier elevation   |  |
| δεll Log             | Ft W of EL<br>Ground elevation 6400                                                                                                                                            | Depth to be drock                                         | Ft F of WL 1200<br>Bedrick elevation                    | Aquifier elevation   |  |
| S ell <b>L</b> og    | Ft W of EL<br>Ground elevation 640 0<br>UTM Fasting 539065 0                                                                                                                   | Depth to be drock                                         | Ft F of WL 1200<br>Bedrick elevation                    | Aquifier elevation   |  |
| S ell <b>L</b> og    | Ft W of EL  Ground elevation 640 0  UTM Fasting 539065 0  Top Bottom                                                                                                           | Depth to be drock  Formation                              | Ft F of WL 1200  Bedrick elevation  LTM Vorthing 430748 | Aquifier elevation   |  |
| Well Log             | Ft W of EL           Ground elevation 640 0           UTM Fasting 539065 0           Top Bottom 0 0           14 0                                                             | Depth to be drock  Formation  DIR [                       | Ft F of WL 1200  Bedrick elevation  LTM Vorthing 430748 | Aquifier elevation   |  |
| W ell <b>L</b> og    | Ft W of EL           Ground elevation         640 0           UTM Fasting         539065 0           Top         Bottom           0 0         14 0           14 0         70 0 | Pepth to be drock  Formation  DIR [  BOLLDERN & MU        | Ft F of WL 1200  Bedrick elevation  LTM Vorthing 430748 | Aquifier elevation   |  |

#### Record of Water Well

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#### Indiana Department of Natural Resources

| Reference Number                                           | Driving directions to well                           |                                                      | =                                  | Date completed        |
|------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------|-----------------------|
| 223315                                                     | IN AVOCA ON LOTS 55 &<br>HWY 54 & 58                 | 56 OF BRIDWELL ADD, APPROX                           | BLOCK OFF STATE                    | Thu, Sep 06, 1962     |
| Owner-Contractor                                           | Name                                                 | Address                                              |                                    | Telephone             |
| Well Owner                                                 | ROBERT OR LINDA<br>CHARELS                           | ANOCA, IN                                            |                                    |                       |
| Building Contractor Drilling Contractor Equipment Operator | ERNIE UMPHRESS & SON<br>EUGENE & CHARLES<br>UMPHRESS | S RR6, BEDFORD, IN                                   |                                    |                       |
|                                                            |                                                      |                                                      |                                    |                       |
| Construction Details Well                                  | II.a. HOME                                           | Drilling mathod: CARLE TOOL                          | Pump tupa                          |                       |
| Well                                                       | Use: HOME<br>Depth: 217 0                            | Drilling method: CABLE TOOL  Pump setting depth:     | Pump type:<br>Water quality        | ,.                    |
| Casing                                                     | Length: 27.5                                         | Material:                                            | Diameter: 6 (                      |                       |
| Screen                                                     | Length:                                              | Material:                                            | Diameter: Slo                      |                       |
| Well Capacity Test                                         | Type of test:<br>Drawdown: fi                        | Test rate: gpm for hrs.  Static water level: 97 0 ft | BailTest r                         | ate: 0 1 gpm for hrs. |
| Grouting Information                                       | Material:<br>Installation Method:                    | -                                                    | oth: from to<br>mber of bags used: |                       |
| Vell Abandonment                                           | Sealing material:<br>Installation Method:            | •                                                    | oth: from to<br>mber of bags used: |                       |
| Administrative                                             | County: LAWRENCE                                     |                                                      | Township: 6N Range                 | : 1W                  |
|                                                            | Section: NW 1/4 of the NE 1/                         | 4 of the SW 1/4 of Section 32                        |                                    | Topo map: OOLITIC     |
|                                                            | Field located by: JCH                                |                                                      | on: Mon, Aug 01, 196               | 56                    |
|                                                            | Courthouse location by:                              |                                                      | on:                                |                       |
|                                                            | Location accepted w/o verific                        | cation by:                                           | on:                                |                       |
|                                                            | Subdivision name:                                    |                                                      | Lot number:                        |                       |
|                                                            | Ft W of EL:                                          | Ft N of SL: 2300                                     | Ft E of WL: 1400                   | Ft S of NL:           |
|                                                            | Ground elevation: 580 0                              | Depth to bedrock                                     | Bedrock elevation:                 | Aquifier elevation:   |
|                                                            | UTM Easting: 539139 0                                |                                                      | UTM Northing: 4306                 | 775 0                 |
| Vell Log                                                   | Top Botto                                            | m Formation                                          |                                    |                       |
| v                                                          | 00 160                                               | DIRT                                                 |                                    |                       |
|                                                            | 16 0 52 0                                            | BLUF LS HARD                                         |                                    |                       |
|                                                            | 52 0 97 0                                            | GRAY LS H\RD                                         |                                    |                       |
|                                                            | 97 0 115 0                                           |                                                      |                                    |                       |
|                                                            | 115 0 130 0                                          |                                                      |                                    |                       |
|                                                            | 130 0 175 0                                          |                                                      |                                    |                       |
|                                                            |                                                      |                                                      |                                    |                       |
|                                                            | 175 0 206 0                                          | BLUEISNOFI                                           |                                    |                       |

206.0 217.0 BLUE SHISOFT

#### Record of Water Well

#### Indiana Department of Natural Resources

| Reference Number 223320                 |                                                                   | IC ON NE    | W HIGHWAY 37 1/4 MI N OF A<br>IDE OF HIGHWAY 37 PART O | VOCA BLINKER LIGHT                               | Ved, Dec 04, 1974        |
|-----------------------------------------|-------------------------------------------------------------------|-------------|--------------------------------------------------------|--------------------------------------------------|--------------------------|
| Owner-Contractor Well Owner             | <i>Name</i><br>CHARLES MILLER                                     |             | ddress<br>EDFORD IND. RR                               | Τ                                                | elephone                 |
| Building Contractor Drilling Contractor | RAY E. ALFORD                                                     | М           | IITCHELL IND RR 2                                      |                                                  |                          |
| Equipment Operator                      | RAY E. ALFORD                                                     | Li          | cense:                                                 |                                                  |                          |
| Construction Details                    |                                                                   |             |                                                        |                                                  |                          |
| Well                                    | Use: HOME                                                         | Di          | rilling method: CABLE TOOL                             | Pump type:                                       |                          |
|                                         | Depth: 200.0                                                      | Pı          | ump setting depth:                                     | Water quality:                                   |                          |
| Casing<br>Screen                        | Length:<br>Length:                                                |             | aterial:<br>aterial:                                   | Diameter:<br>Diameter: Slot siz                  | e:                       |
| Well Capacity Test                      | Type of test: Drawdown: ft.                                       |             | Test rate: gpm for hrs.  Static water level: 34.0 ft   | BailTest rate:                                   | 1.0 gpm for 1 0 hrs.     |
| Grouting Information                    | Material:<br>Installation Method:                                 |             | •                                                      | oth: from to<br>mber of bags used:               |                          |
| Vell Abandonment                        | Sealing material:<br>Installation Method:                         |             | ·                                                      | oth: from to<br>nber of bags used:               |                          |
| Administrative                          | County: LAWRENCE Section: SE 1/4 of the S                         | W 1/4 of th | he NE 1/4 of Section 37                                | Township: 6N Range: 1W                           | Topo map: OOLITIC        |
|                                         | Field located by: JRD                                             | 174 01 17   | ic ND 174 of Section 32                                | om. Tug. Aug. 09, 1079                           | Topo map: OOLITIC        |
|                                         | •                                                                 |             |                                                        | on: Tue, Aug 08, 1978                            |                          |
|                                         | Courthouse location by:<br>Location accepted w/o verification by: |             |                                                        | on:<br>on:                                       |                          |
|                                         | Subdivision name:                                                 | erijicanon  | . vy.                                                  | Lot number:                                      |                          |
|                                         | Ft W of EL: 1800                                                  |             | Ft N of SL:                                            |                                                  | E. C - (NL 2400          |
|                                         | -                                                                 | 3           | -                                                      | Ft E of WL:                                      | Ft S of NL: 2400         |
|                                         | Ground elevation: 660 (<br>UTM Easting: 539779 0                  |             | Depth to bedrock: 42 0                                 | Bedrock elevation: 618 0 UTM Northing: 4306928 0 | Aquifier elevation:<br>) |
| Vell Log.                               | Top {                                                             | Bottom      | Formation                                              |                                                  |                          |
|                                         | 0 0                                                               | 12.0        | SOIL & CLAY                                            |                                                  |                          |
|                                         | 420                                                               | 53 ()       | HARD GRAY LIMI                                         | E HARD                                           |                          |
|                                         | 53 0                                                              | 24.0        | BR BUFF LIME SO                                        | FT                                               |                          |
|                                         | 64 0                                                              | 170.0       | GRAY LIME MD L                                         | ITTLE WATER                                      |                          |
|                                         |                                                                   |             |                                                        |                                                  |                          |

MC618, NEIGHBOR \ FRIFIED

200.0 HARD WHILIME ...

1740

Comments

#### Record of Water Well

| Reference Number            | Driving directions to well              |                        |                          |                                | Date completed      |
|-----------------------------|-----------------------------------------|------------------------|--------------------------|--------------------------------|---------------------|
| 223325                      | ACROSS FROM AVOCA                       | FISH HATCHE            | RY                       |                                | Wed, May 13, 1964   |
| Owner-Contractor Well Owner | <i>Name</i><br>EVA CRULS                | Address                | JD.                      |                                | Telephone           |
| Building Contractor         |                                         | AVOCA IN               |                          |                                |                     |
| Drilling Contractor         | ERNIE UMPHRESS & SC<br>EUGENE & CHARLES | ONS RR 6 BOX           | 13 BEDFORD IND.          |                                |                     |
| Equipment Operator          | UMPHRESS                                | License.               |                          |                                |                     |
| Construction Details        |                                         |                        |                          |                                |                     |
| Well                        | Use: HOME                               | Drilling me            | ethod: CABLE TOOL        | Pump type:                     |                     |
| _                           | Depth: 166 0                            | Pump settir            | ng depth:                | Water quality                  |                     |
| Casing<br>Screen            | Length: 54.0<br>Length:                 | Material:<br>Material: |                          | Diameter: 6 0<br>Diameter: Slo |                     |
| Well Capacity Test          | Type of test:                           | Tes                    | t rate: gpm for hrs.     | BailTest ra                    | te: 1 5 gpm for hrs |
|                             | Drawdown: ft                            | Stai                   | tic water level: 93 0 ft |                                |                     |
| Grouting Information        | Material:                               |                        |                          | epth: from to                  |                     |
|                             | Installation Method:                    |                        | N                        | umber of bags used:            |                     |
| Well Abandonment            | Sealing material:                       |                        | D                        | epth: from to                  |                     |
|                             | Installation Method:                    |                        | N                        | umber of bags used:            |                     |
| Administrative              | County: LAWRENCE                        |                        |                          | Township: 6N Range:            | ıw                  |
|                             | Section: NE 1/4 of the NW               | 1/4 of the SW 1        | /4 of Section 32         |                                | Topo map: OOLITIC   |
|                             | Field located by: JCH                   |                        |                          | on: Mon, Aug 01, 196           | 6                   |
|                             | Courthouse location by:                 |                        |                          | on:                            |                     |
|                             | Location accepted w/o veri              | fication by:           |                          | on:                            |                     |
|                             | Subdivision name:                       |                        |                          | Lot number:                    |                     |
|                             | Ft W of EL:                             |                        | N of SL: 2450            | Ft E of WL: 1100               | Ft S of NL:         |
|                             | Ground elevation 565 0                  | $D\epsilon$            | epth to bedrock:         | Bedrock elevation:             | Aquifier elevation: |
|                             | UTM Easting, 539042 0                   |                        |                          | UTM Northing: 43068            | 323 0               |
| Vell Log                    | Тор Вои                                 | tom                    | Formation                |                                |                     |
|                             | 0 0 24                                  | 0                      | DIRT                     |                                |                     |
|                             | 24 0 53                                 | 0                      | BOULDERS & M             | UD HOLES                       |                     |
|                             | 53 0 104                                | 0                      | GRAY LS HARD             |                                |                     |
|                             | 104.0                                   | 0 ()                   | BLUE LS SOFT             |                                |                     |
|                             |                                         |                        | WH LS HARD               |                                |                     |

#### Record of Water Well

| Reference Number                        | Driving directions to                                   | well                 | Mt M see a rule yes die 100 fre despe- | The comment of the control of the co | Date completed      |
|-----------------------------------------|---------------------------------------------------------|----------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 217287                                  | LOGAN 8 MI N OF BEDFORD ON MONON RR FORMERLY CALL GRAYS |                      |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Wed, Aug 05, 1964   |
| Owner-Contractor Well Owner             | <i>Name</i><br>CARL HARTMAN                             | <i>Addre</i><br>BEDF | ord ind RR 3                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Telephone           |
| Building Contractor Drilling Contractor | FLOYD STULTZ                                            | BEDF                 | ORD IND RR 4                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| Equipment Operator                      | FLOYDSTULTZ                                             | Licens               | e·                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| Construction Details                    |                                                         |                      |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| Well                                    | Use: HOME                                               | Drillin              | g method:                              | Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
|                                         | Depth: 220 0                                            | ·-                   | setting depth:                         | Water qualit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | *                   |
| Casing<br>Screen                        | Length: 90<br>Length:                                   | Materi<br>Materi     |                                        | Diameter: 6<br>Diameter: Si                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |
| Well Capacity Test                      | Type of test:                                           |                      | Test rate: 0 05 gpm for 8 0            | 0 hrs BailTest i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | rate: gpm for hrs   |
|                                         | Drawdown: ft                                            |                      | Static water level: ft.                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| Grouting Information                    | Material:                                               |                      | De                                     | epth: from to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |
|                                         | Installation Method:                                    |                      | Nu                                     | umber of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |
| Well Abandonment                        | Sealing material:<br>Installation Method:               |                      |                                        | epth: from to<br>umber of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |
| Administrative                          | County: LAWRENCE                                        |                      |                                        | Township: 6N Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |
|                                         | Section: NE 1/4 of the                                  | NW 1/4 of the S      | E 1/4 of Section 22                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Topo map: OOLITIC   |
|                                         | Field located by: JCH                                   |                      |                                        | on: Mon, Aug 01, 190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 66                  |
|                                         | Courthouse location by                                  | y <i>:</i>           |                                        | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |
|                                         | Location accepted w/o                                   | verification by.     |                                        | on.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |
|                                         | Subdivision name:                                       |                      |                                        | Lot number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |
|                                         | Ft W of EL:                                             |                      | Ft N of SL: 2800                       | Ft E of WL: 3900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ft S of NL:         |
|                                         | Ground elevation, 580                                   | 0                    | Depth to bedrock:                      | Bedrock elevation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Aquifier elevation: |
|                                         | UIM Easting 543041                                      | 0                    |                                        | UTM Northing 4310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 049 0               |
|                                         |                                                         |                      |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| Vell Log                                | Гор                                                     | Bottom               | Formation                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| Vell Log                                |                                                         | Bottom<br>9 0        | Formation<br>CLAY                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| Yell Log                                | 0.0                                                     |                      |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |

### Record of Water Well

| Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: JCH  Courthouse location by:  Location accepted w/o verification by:  Subdivision name:  Lot nu  Ft W of EL:  Ground elevation: 590 0  Depth to bedrock:  Bedroc  UTM Easting: 542730 0  VTM N  Well Log  Top  Bottom  Formation  0 0  13 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Da                               | te completed        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|
| Well Owner Building Contractor Domling Contractor Equipment Operator  FLOYD STULTZ Equipment Operator  FloyD STULTS  Equipment Operator  FloyD STULTZ  Editor Stult Indicated Equipment Operator  FloyD Stult Indicated In | Mon, Nov 04, 1963                |                     |
| Drilling Contractor Equipment Operator FLOYD STULTZ Equipment Operator FLOYD STULTZ License:  Construction Details Well Use: STOCK Depth: 190 0 Pump setting depth: Length: Material: Material: Well Capacity Test Type of test: Drawdown: ft. Static water level: 40 0 ft.  Grouting Information Material: Installation Method: Number of bay Multivistrative County: LAWRENCE Section: SW 1/4 of the NE 1/4 of Section 22 Field located by: JCH Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: 590 0 UTM Easting: 542730 0  LOCAT  License:  Depth: From to Number of bay  On: Moderation by: On: Courth to bedrock: Bedroc UTM Easting: 542730 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Tei                              | lephone             |
| Construction Details  Well Use: STOCK Drilling method: CABLE TOOL  Depth: 190 0 Pump setting depth:  Casing Length: 13 0 Material:  Well Capacity Test Type of test: Test rate: gpm for hrs.  Drawdown: ft. Static water level: 40 0 ft.  Grouting Information Material: Depth: from to Number of bay  Well Abandonment Sealing material: Depth: from to Number of bay  Administrative County: LAWRENCE Towns  Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: ICH on: Me  Courthouse location by: on:  Location accepted w/o verification by:  Subdivision name: Lot nu  Ft W of EL: Ft N of SL: Ft E of  Ground elevation: 590 0 Depth to bedrock: Bedrock  UTM Easting: 542730 0  Top Bottom Formation  Top Bottom Formation  Top Bottom Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                     |
| Well    Use: STOCK   Drilling method: CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                     |
| Depth: 190 0 Pump setting depth: Length: 13 0 Material: Well Capacity Test  Type of test: Test rate: gpm for hrs. Drawdown: ft. Static water level: 40 0 ft.  Grouting Information  Material: Installation Method: Number of bay Mell Abandonment  Sealing material: Depth: from to Installation Method: Number of bay Mell Abandonment  Sealing material: Depth: from to Number of bay Mell Abandonment  County: LAWRENCE Towns Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22 Field located by: JCH on: Me Courthouse location by: on: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ft N of SL: Ft E of Ground elevation: 590 0 Depth to bedrock: Bedroc UTM Easting: 542730 0  Top Bottom Formation  O 0 13 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                     |
| Casing Length: 13 0 Material:  Well Capacity Test Type of test: Test rate: gpm for hrs.  Drawdown: ft. Static water level: 40 0 ft.  Frouting Information Material: Depth: from to Installation Method: Number of bay  Well Abandonment Sealing material: Depth: from to Installation Method: Number of bay  Administrative County: LAWRENCE Towns  Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: ICH  Courthouse location by: on:  Location accepted w/o verification by: on:  Subdivision name: Lot nu  Ft W of EL: Ft N of SL: Ft E of  Ground elevation: 590 0 Depth to bedrock: Bedroc  UTM Easting: 542730 0  Top Bottom Formation  Top Bottom Formation  Top Bottom Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pump type:                       |                     |
| Screen Length: Material:  Well Capacity Test Type of test: Test rate: gpm for hrs. Drawdown: ft. Static water level: 40 0 ft.  Grouting Information Material: Depth: from to Installation Method: Number of bay  Well Abandonment Sealing material: Depth: from to Installation Method: Number of bay  Administrative County: LAWRENCE Towns  Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: JCH On: Mo  Courthouse location by: On:  Location accepted w/o verification by: On:  Subdivision name: Lot nu  Ft W of EL: Ft N of SL: Ft E of  Ground elevation: 590 0 Depth to bedrock: Bedroc  UTM Easting: 542730 0  Vell Log Top Bottom Formation  0 0 13 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Water quality:                   |                     |
| Drawdown: ft.  Static water level: 40 0 ft.  Grouting Information  Material: Installation Method:  Number of bay  Well Abandonment  Sealing material: Installation Method:  Number of bay  Administrative  County: LAWRENCE Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: JCH Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: 590 0 Depth to bedrock: Bedroc UTM Easting: 542730 0  Vell Log  Top Bottom Formation  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter: 60 Diameter: Slot size | <i>::</i>           |
| Administrative  County: LAWRENCE Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22 Field located by: JCH Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: 590 0 UTM Easting: 542730 0  Depth: from to Number of bay Number of bay Towns Subdivision to the SW 1/4 of the NE 1/4 of Section 22 Field located by: JCH On: Mo Courthouse location by: Location accepted w/o verification by: Subdivision name: Lot nu Ft W of EL: Ft N of SL: Ft E of Ground elevation: 590 0 Depth to bedrock: Bedroc UTM Easting: 542730 0  Vell Log  Top Bottom Formation O CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BailTest rate: 0                 | .5 gpm for 8 0 hrs. |
| Installation Method:  Number of bay  Nell Abandonment  Sealing material: Installation Method:  County: LAWRENCE Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: JCH Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ft N of SL: Ground elevation: 590 0 Depth to bedrock: Bedrock UTM Easting: 542730 0  Vell Log  Top Bottom Formation  O 0 13 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                     |
| Vell Abandonment  Sealing material: Installation Method:  County: LAWRENCE Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: JCH Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ft N of SL: Ground elevation: 590 0 Depth to bedrock: Bedrock UTM Easting: 542730 0  Vell Log  Top Bottom Formation O Depth: from to Number of bag  Towns  Number of bag  Towns  Tow |                                  |                     |
| Installation Method:  County: LAWRENCE Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: JCH Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: 590 0 Depth to bedrock: Bedrock UTM Easting: 542730 0  Vell Log  Top Bottom Formation 0 0 13 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ngs used:                        |                     |
| Administrative  County: LAWRENCE Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: JCH Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ft N of SL: Ft E of Ground elevation: 590 0 Depth to bedrock: Bedrock UTM Easting: 542730 0  Vell Log  Top Bottom Formation 0 0 13 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                     |
| Section: SW 1/4 of the SW 1/4 of the NE 1/4 of Section 22  Field located by: JCH  Courthouse location by:  Location accepted w/o verification by:  Subdivision name:  Ft W of EL:  Ground elevation: 590 0  Depth to bedrock:  Bedrock  UTM Easting: 542730 0  VTM N  Vell Log  Top  Bottom  Formation  0 0  13 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | igs used:                        |                     |
| Field located by: JCH  Courthouse location by:  Location accepted w/o verification by:  Subdivision name:  Lot nu  Ft W of EL:  Ground elevation: 590 0  UTM Easting: 542730 0  Vell Log  Top  Bottom  Formation  0 0  13 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ship: 6N Range: 1W               | _                   |
| Courthouse location by:  Location accepted w/o verification by:  Subdivision name:  Lot nu  Ft W of EL:  Ground elevation: 590 0  UTM Easting: 542730 0  Top  Bottom  Formation  0 0  13 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  | Topo map: OOLITIC   |
| Location accepted w/o verification by:  Subdivision name:  Lot nu  Ft W of EL:  Ground elevation: 590 0  UTM Easting: 542730 0  Vell Log  Top  Bottom  Formation  0 0  13 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ion, Aug 01, 1966                |                     |
| Subdivision name:  Ft W of EL:  Ground elevation: 590 0  UTM Easting: 542730 0  Vell Log  Top  Bottom  Formation  0 0  13 0  CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                     |
| Ft W of EL:         Ft N of SL:         Ft E of Ground elevation: 590 0         Depth to bedrock:         Bedrock           UTM Easting: 542730 0         UTM N           Vell Log         Top         Bottom         Formation           0 0         13 0         CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | b                                |                     |
| Ground elevation: 590 0 Depth to bedrock: Bedrock UTM Easting: 542730 0 UTM S  Vell Log Top Bottom Formation 0 0 13 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | of WL: 2800                      | Ft S of NL: 2200    |
| Vell Log         Top         Bottom         Formation           0 0         13 0         CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ock elevation: 580 0             | Aquifier elevation: |
| 0 0 13 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Northing: 4310207 0              |                     |
| 0 0 13 0 CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                     |
| 13 0 190 0 SOAPSTONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                     |
| Comments MC580                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                     |

## 2.82

#### Record of Water Well

| Reference Number                        | Driving directions to we                   | Ш                                         |                                     | Date completed             |
|-----------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------|----------------------------|
| 217297                                  | 1 MI N OF NEEDMORE                         | E ON SR37                                 |                                     | Thu, Jul 14, 1960          |
| <i>Owner-Contractor</i><br>Well Owner   | <i>Name</i><br>LARRY STEWART               | Address<br>BEDFORD IND RR 3               |                                     | Telephone                  |
| Building Contractor Drilling Contractor | FLOYD STULTZ                               | BEDFORD, IND RR 4 B                       | OX 72                               |                            |
| Equipment Operator                      | FLOYD STULTZ                               | License                                   |                                     |                            |
| Construction Details                    |                                            |                                           |                                     |                            |
| Well                                    | Use: HOME                                  | Drilling method: CABLE                    | TOOL Pump type.                     |                            |
|                                         | Depth: 1750                                | Pump setting depth:                       | Water quali                         | ty:                        |
| Casing<br>Screen                        | Length: 27 0<br>Length:                    | Material:<br>Material:                    | Diameter: 6<br>Diameter: S          |                            |
| Well Capacity Test                      | Type of test:<br>Drawdown: fi              | Test rate: gpm for<br>Static water level: |                                     | rate: gpm for 8 0 hrs      |
| Grouting Information                    | Material:                                  |                                           | Depth: from to                      |                            |
|                                         | Installation Method:                       |                                           | Number of bags used:                |                            |
| Well Abandonment                        | Sealing material:<br>Installation Method:  |                                           | Depth: from to Number of bags used: |                            |
|                                         | C LAWRENCE                                 |                                           |                                     |                            |
| Administrative                          | County: LAWRENCE Section: NE 1/4 of the SV | V 1/4 of the NW 1/4 of Section 2          | Township: 6N Rang                   | e: 1W<br>Topo map: OOLITIC |
|                                         | Field located by: S & H                    | The of the province of occurre            | on: Tue, Nov 01, 19                 |                            |
|                                         | Courthouse location by:                    |                                           | on:                                 |                            |
|                                         | Location accepted w/o ve                   | rification by                             | on:                                 |                            |
|                                         | Subdivision name:                          | rgicaion by.                              | on:  Lot number:                    |                            |
|                                         | Ft W of EL:                                | Ft N of SL:                               | Ft E of WL:                         | Ft S of NL:                |
|                                         | Ground elevation: 6150                     | Depth to bedrock                          | •                                   | •                          |
|                                         |                                            | Depin to bearock                          |                                     | Aquifier elevation:        |
|                                         | UTM Easting: 540462 0                      |                                           | UTM Northing, 431                   | U+33 U                     |
| Vell Log                                | Тор Во                                     | ottom Formation                           |                                     |                            |
|                                         | 0 0 26                                     | CLAY                                      |                                     | · <u> </u>                 |
|                                         | 26 0 17                                    | 75 0 LS HARD                              |                                     |                            |
| omments                                 | MC590                                      |                                           |                                     |                            |

# 283

| Reference Number                                | Driving directions to                     | o well                                | W MAR WE SO ASSOCIATION AND NO METERS & | a property of the contraction        | Date completed                             |  |
|-------------------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------------|--|
| 217317                                          | 8 MI N OF BEDFO                           | RD RR 4 JUI                           | DAH LOGAN RD                            | Sat, Apr 11, 1964                    |                                            |  |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>RALPH LUALLEN              |                                       | Address<br>BEDFORD IND RR 4             |                                      | Telephone                                  |  |
| Drilling Contractor                             | FLOYD STULTZ                              | R                                     | R 4 BOX 72 BEDFORD INDIA                | ٧A                                   |                                            |  |
| Equipment Operator                              | FLOYD STULTZ                              | L                                     | cicense                                 |                                      |                                            |  |
| Construction Details                            |                                           |                                       |                                         |                                      |                                            |  |
| Well                                            | Use. HOME                                 | D                                     | Orilling method: CABLE TOOL             | Pump type:                           |                                            |  |
|                                                 | Depth: 135 0                              | P                                     | ump setting depth:                      | Water quality                        | <b>:</b>                                   |  |
| Casing<br>Screen                                | Length: 9 0<br>Length:                    |                                       | laterial:<br>laterial:                  | Diameter: 6 0<br>Diameter: Slo       |                                            |  |
| Well Capacity Test                              | Type of test:                             |                                       | Test rate: gpm for hrs                  | BailTest ro                          | ue: 0 3 gpm for 8 0 hrs                    |  |
|                                                 | Drawdown: ft                              |                                       | Static water level: 60 0 ft             |                                      |                                            |  |
| Grouting Information                            | Material: D                               |                                       | De                                      | epth. from to                        |                                            |  |
|                                                 | Installation Method.                      |                                       | Nu                                      | mber of bags used                    |                                            |  |
| Well Abandonment                                | Sealing material:<br>Installation Method: |                                       |                                         | pth: from to<br>imber of bags u sec. |                                            |  |
| Administrative                                  | County: LAWRENC<br>Section: NW 1/4 of t   |                                       | the SW 1/4 of Section 24                | Township: 6N Range:                  | : 1W<br><i>Topo map:</i><br>BARTLETTSVILLE |  |
|                                                 | Field located by. JCH                     |                                       |                                         | on: Mon, Aug 01, 1966                |                                            |  |
|                                                 | Courthouse location by:                   |                                       |                                         | on·                                  |                                            |  |
|                                                 | Location accepted w                       | Location accepted w/o verification by |                                         |                                      |                                            |  |
|                                                 | Subdivision name:                         |                                       |                                         | Lot number                           |                                            |  |
|                                                 | Ft W of EL:                               |                                       | Ft N of SL                              | Ft E of WL. 1900                     | Ft S of NL: 2700                           |  |
|                                                 | Ground elevation · 6-                     | 45 0                                  | Depth to bedrock 100                    | Bedrock elevation · 635 0            | Aquifier elevation                         |  |
|                                                 | UTM Easting: 54570                        | 04 0                                  |                                         | UTM Northing 4310                    | 1190                                       |  |
| Well Log                                        | Тор                                       | Bottom                                | Formation                               |                                      |                                            |  |
|                                                 | 0 0                                       | 8 0                                   | CLAY                                    |                                      |                                            |  |
|                                                 | 8 0                                       | 75 0                                  | LS                                      |                                      |                                            |  |
|                                                 | 75 0                                      | 135 0                                 | SOAPSTONE                               |                                      |                                            |  |
| Comments                                        | MC635                                     |                                       |                                         |                                      |                                            |  |

284

#### Record of Water Well

| Driving directions to well                        |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| FRANK GOODMAN PLACE 7 MI N OF BEDFORD ON LOGAN RD |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | GAN RD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Fn, Jun 15, 1962                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Name<br>CLOYD PRINCE                              |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Telephone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| FLOYD STULTZ                                      | RR 41                                                                                                                                                                                                                                                                                                                                                                                               | BOX 72 BEDFORD IND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IANA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| FLOYD STULTZ                                      |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Use: HOME                                         | Drillin                                                                                                                                                                                                                                                                                                                                                                                             | ng method: CABLE TOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DL Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Depth: 90.0                                       | -                                                                                                                                                                                                                                                                                                                                                                                                   | = -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | = :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Length: 3.0<br>Length:                            |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Type of test:<br>Drawdown: ft.                    |                                                                                                                                                                                                                                                                                                                                                                                                     | Test rate: gpm for hrs. Static water level: 30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | te: 1 0 gpm for 10 0 hrs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Material:<br>Installation Method:                 |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Depth: from to Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Sealing material:<br>Installation Method:         |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Depth: from to Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| County: LAWRENCE                                  |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Township: 6N Range:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ıw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Section: NE 1/4 of the N                          | Section: NE 1/4 of the NW 1/4 of the SW 1/4 of Section 24                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ppo map: BARTLETTSVILLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Field located by: U                               |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | on: Mon, Jul 01, 1963                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Courthouse location by                            |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Location accepted w/o v                           | erification by:                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Subdivision name:                                 |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lot number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Ft W of EL:                                       |                                                                                                                                                                                                                                                                                                                                                                                                     | Ft N of SL: 2100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ft E of WL: 700 Ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S of NL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Ground elevation: 690 (                           | )                                                                                                                                                                                                                                                                                                                                                                                                   | Depth to bedrock:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Bedrock elevation: Aq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | uifier elevation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| UTM Easting: 545362 0                             |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UTM Northing: 43099                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 55 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Тор В                                             | Bottom                                                                                                                                                                                                                                                                                                                                                                                              | Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 0 0                                               | 0                                                                                                                                                                                                                                                                                                                                                                                                   | CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 3 0                                               | 0.0                                                                                                                                                                                                                                                                                                                                                                                                 | HARD LS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| MC685                                             | ~/ 46 / 48                                                                                                                                                                                                                                                                                                                                                                                          | SSA K ON PHENING SEED AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mand and the second second security of the se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | The first first the same was a second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|                                                   | Name CLOYD PRINCE FLOYD STULTZ FLOYD STULTZ FLOYD STULTZ  Use: HOME Depth: 90.0 Length: 3.0 Length:  Type of test: Drawdown: ft.  Material: Installation Method:  Sealing material: Installation Method:  County: LAWRENCE Section: NE 1/4 of the N Field located by: U Courthouse location by: Location accepted w/o v Subdivision name: Ft W of EL: Ground elevation: 690 0 UTM Easting: 545362 0 | FRANK GOODMAN PLACE 7 MI N  Name CLOYD PRINCE  FLOYD STULTZ  FLOYD STULTZ  FLOYD STULTZ  Licens  Use: HOME Depth: 90.0  Length: 3.0  Length: Mater  Type of test: Drawdown: ft.  Material: Installation Method:  Sealing material: Installation Method:  County: LAWRENCE Section: NE 1/4 of the NW 1/4 of the S  Field located by: U  Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: 690 0  UTM Easting: 545362 0  Top  Bottom  0 0  3 0  80 0 | FRANK GOODMAN PLACE 7 MI N OF BEDFORD ON LOCK  Name CLOYD PRINCE BEDFORD RR 4  FLOYD STULTZ FLOYD STULTZ FLOYD STULTZ License:  Use: HOME Depth: 90.0 Pump setting depth: Material:  Type of test: Drawdown: ft.  Test rate: gpm for hrs. Static water level: 30.0  Material: Installation Method:  Sealing material: Installation Method:  County: LAWRENCE Section: NE 1/4 of the NW 1/4 of the SW 1/4 of Section 24  Field located by: U Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: 690 0 Depth to bedrock:  UTM Easting: 545362 0  Top Bottom Formation 0 0 3 0 CLAY 30 NAddress  RR 4 BOX 72 BEDFORD IND Pump setting depth:  Test rate: gpm for hrs. Static water level: 30.0  Pump setting depth: Material: Ft N of St.: 2100 Depth to bedrock: UTM Easting: 545362 0 | FRANK GOODMAN PLACE 7 MI N OF BEDFORD ON LOGAN RD  Name CLOYD PRINCE BEDFORD RR 4  FLOYD STULTZ RR 4 BOX 72 BEDFORD INDIANA FLOYD STULTZ License:  Use: HOME Drilling method: CABLE TOOL Pump type: Water quality. Length: 3.0 Material: Diameter: 60 Diameter: 60 Diameter: Slo  Type of test: Drawdown: ft. Static water level: 30.0 ft.  Material: Installation Method: Number of bags used:  Sealing material: Installation Method:  County: LAWRENCE Section: NE 1/4 of the NW 1/4 of the SW 1/4 of Section 24 Field located by: U Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ft N of SL: 2100 Ft E of WL: 700 Ft Ground elevation: 690 0 Depth to bedrock: Bedrock elevation: Aq UTM Easting: 545362 0  Top Boltom Formation  O  3 0 CLAY 30 NO HARD LS |  |

285

| Reference Number                                | Driving direction                                         | is to well                                                                                | annealach nah — cana ≥ he juan ammerbach ta is — headelf | e andre de marche de la company de la compan | Date completed            |  |
|-------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|
| 217327                                          |                                                           | LOGAN COMMUNITY (OR GRAYSON) 8 MI N OF BEDFORD & E OF LITTLE SALT CREEK AT OLD HOUSE SITE |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>RALPH ALLEN                                |                                                                                           | dress<br>DFORD RR 4                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Telephone                 |  |
| Drilling Contractor                             | FLOYD STULTZ                                              | . RR                                                                                      | 4 BOX 72 BEDFORD IND                                     | IANA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |  |
| Equipment Operator                              | FLOYD STULTZ                                              | . Lic                                                                                     | rense:                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |
| Construction Details                            |                                                           |                                                                                           |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |
| Well                                            | Use: STOCK                                                | Dri                                                                                       | illing method: CABLE TOC                                 | L Pump type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |  |
|                                                 | Depth: 100 0                                              | Pu                                                                                        | mp setting depth:                                        | Water quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <i>):</i>                 |  |
| Casing<br>Screen                                | Length: 12 0<br>Length:                                   |                                                                                           | terial:<br>terial:                                       | Diameter: 6.0<br>Diameter: Slo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |  |
| Well Capacity Test                              | Type of test:                                             |                                                                                           | Test rate: gpm for hrs.                                  | BailTest r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ate: 1 0 gpm for 8.0 hrs. |  |
|                                                 | Drawdown: ft.                                             |                                                                                           | Static water level: 50 0                                 | ) ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |  |
| Grouting Information                            | Material:                                                 |                                                                                           |                                                          | Depth: from to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |  |
|                                                 | Installation Meth                                         | od:                                                                                       |                                                          | Number of bags used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |  |
| Well Abandonment                                | Sealing material:                                         |                                                                                           |                                                          | Depth: from to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |  |
|                                                 | Installation Meth                                         | od:                                                                                       |                                                          | Number of bags used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |  |
| Administrative                                  | County: LAWRE                                             |                                                                                           |                                                          | Township: 6N Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | : 1W                      |  |
|                                                 | Section: SW 1/4 of the NE 1/4 of the SW 1/4 of Section 24 |                                                                                           |                                                          | Topo map: BARTLETTSVILLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |  |
|                                                 | Field located by:                                         | U                                                                                         |                                                          | on: Tue, Oct 01, 1963                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |  |
|                                                 | Courthouse locati                                         | ion by:                                                                                   |                                                          | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |  |
|                                                 | Location accepted                                         | ł w/o verification                                                                        | by:                                                      | on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |  |
|                                                 | Subdivision name                                          | ·:                                                                                        |                                                          | Lot number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |  |
|                                                 | Ft W of EL:                                               |                                                                                           | Ft N of SL: 1800                                         | Ft E of WL: 1500 F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Et S of NL:               |  |
|                                                 | Ground elevation                                          | : 655 0                                                                                   | Depth to bedrock:                                        | Bedrock elevation: A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | quifier elevation:        |  |
|                                                 | UTM Easting: 54                                           | 5582 0                                                                                    |                                                          | UTM Northing: 4309                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 918 0                     |  |
| Well Log                                        | Тор                                                       | Bottom                                                                                    | Formation                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |
| -                                               | 0.0                                                       | 12.0                                                                                      | CLAY                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |
|                                                 | 12 0                                                      | 100.0                                                                                     | HARD LS                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |
| Comments                                        | MC645. NEIGHB                                             | OR                                                                                        |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |

| Reference Number                                | Driving directions to we                   | !                                         | Date completed                       |
|-------------------------------------------------|--------------------------------------------|-------------------------------------------|--------------------------------------|
| 217332                                          | ON THE PEERLESS & .                        | UDAH RD ON R #3 BEDI ORD                  | NDIANA Wed Jul 08 1959               |
| Owner Contractor Well Owner Building Contractor | Name<br>DON BLACKWELL                      | Address<br>R #3 BEDFORD IND               | Telephone                            |
| Drilling Contractor                             | FLOYD STULTZ                               | RR 4 BOX 72 BEDFORD                       | NDIANA                               |
| Equipment Operator                              | FLOYD STULTZ                               | License                                   |                                      |
| Construction Details                            |                                            |                                           |                                      |
| Well                                            | Use HOME                                   | Drilling method CABLE 7                   |                                      |
|                                                 | Depth 100 0                                | Pump setting depth                        | Water quality                        |
| Casing<br>Screen                                | Length 125<br>Length                       | Material<br>Material                      | Diameter 60<br>Diameter Slot size    |
| Well Capacity Test                              | Type of test<br>Drawdown ft                | Test rate gpm for l<br>Static water level | <del>-</del> -                       |
| Grouting Information                            | Material                                   |                                           | Depth from to                        |
|                                                 | Installation Method                        |                                           | Number of bags used                  |
| Well Abandonment                                | Sealing material                           |                                           | Depth from to                        |
|                                                 | Installation Method                        |                                           | Number of bags used                  |
| Administrative                                  | County LAWRENCE                            |                                           | Township 6N Range 1W                 |
|                                                 |                                            | 1/4 of the SW 1/4 of Section 22           | Topo map OOLITIC                     |
|                                                 | Field located by BARNE                     |                                           | on Mon Aug 01 1960                   |
|                                                 | Courthouse location by                     | C. A L.                                   | on                                   |
|                                                 | Location accepted w/o ve. Subdivision name | уссанов ву                                | on<br>Lot number                     |
|                                                 | Ft W of EL                                 | Ft N of SL. 1000                          | Ft E of WL 2000 Ft S of NL           |
|                                                 | Ground elevation 630 0                     | Depth to bedrock                          | Bedrock elevation Aquifier elevation |
|                                                 | UTM Fasting 542499 0                       | ,                                         | UTM Northing 4309615 0               |
| Vell Log                                        | Тор Во                                     | ttom Form tion                            |                                      |
| •                                               | 0 0 12                                     | 0 CLAY                                    |                                      |
|                                                 | 12 0                                       | 00 HARDIS                                 |                                      |
| Comments                                        | MC620                                      |                                           |                                      |

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| Reference Number                                | Driving directions to well                         | er stille, de stille de freir tre f des          | WARES STREET, SEC. 1.              | Date completed           |  |
|-------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|--------------------------|--|
| 217671                                          | 2MILES SOUTH OF HELTO                              | Fп, May 04, 1962                                 |                                    |                          |  |
| Owner-Contractor Well Owner Building Contractor | Name<br>ROBERT FLEETWOOD                           | Address<br>HELTONVILLE                           |                                    | Telephone                |  |
| Drilling Contractor                             | ERNIE UMPHRESS & SONS                              | RR 6, BEDFORD IN                                 |                                    |                          |  |
| Equipment Operator                              | E & C. UMPHRESS                                    | License:                                         |                                    |                          |  |
| Construction Details                            |                                                    |                                                  |                                    |                          |  |
| Well                                            | Use: HOME                                          | Drilling method: CABLE TOOL                      | Pump type:                         |                          |  |
|                                                 | Depth: 170.0                                       | Pump setting depth:                              | Water quality                      | <b>v:</b>                |  |
| Casing<br>Screen                                | Length: 16.0<br>Length:                            | Material:<br>Material:                           | Diameter: 6.0<br>Diameter: Sl      |                          |  |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft.                     | Test rate: gpm for hrs.  Static water level: ft. | BailTest r                         | ate: gpm for hrs.        |  |
| Grouting Information                            | Material:                                          | Dep                                              | Depth: from to                     |                          |  |
|                                                 | Installation Method:                               | Nu.                                              | mber of bags used:                 |                          |  |
| Well Abandonment                                | Sealing material: Installation Method:             | •                                                | oth: from to<br>mber of bags used: |                          |  |
| A dissipation sales                             | County LAWRENCE                                    |                                                  | Township, 6N Pages                 | 15                       |  |
| Administrative                                  | County: LAWRENCE  Section: SE 1/4 of the SE 1/4 of | f the NE 1/4 of Section 33                       | Township: 6N Range                 | Topo map: BARTLETTSVILLE |  |
|                                                 | Field located by: UHL                              |                                                  | on: Sat, Jun 01, 1963              |                          |  |
|                                                 | Courthouse location by:                            |                                                  | on:                                |                          |  |
|                                                 | Location accepted w/o verifica                     | tion by:                                         | on:                                |                          |  |
|                                                 | Subdivision name:                                  |                                                  | Lot number:                        |                          |  |
|                                                 | Ft W of EL: 25                                     | Ft N of SL:                                      | Ft E of WL:                        | Ft S of NL: 2500         |  |
|                                                 | Ground elevation: 670 0                            | Depth to bedrock: 13 0                           | Bedrock elevation:<br>657 0        | Aquifier elevation:      |  |
|                                                 | UTM Easting: 551623 0                              |                                                  | UTM Northing: 4306                 | 9120                     |  |
| Well Log                                        | Top Bottom                                         | Formation                                        |                                    |                          |  |
|                                                 | 00 130                                             | DIRI                                             |                                    |                          |  |
|                                                 | 13 0 170 0                                         | BLUF SHALE                                       |                                    |                          |  |
| Comments                                        | MC660, DRY HOLE                                    |                                                  |                                    |                          |  |

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| Reference Number                                                                       | Driving direct                                               | ions to well                                                               | 6086 PROFESSOR ASS ABBRICLARY A STATE BAPE S       | بالمعدود فيد بيون ميسود مداد        | Date completed          |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------|-------------------------|
| 217701                                                                                 |                                                              | F HELTONVIL<br>UN CHURCH                                                   | LE 6 MI N E OF BEDFORE                             | O. ONE QUARTER NORT                 | H OF Fn, Oct 05, 1962   |
| Owner-Contractor Well Owner Building Contractor Drilling Contractor Equipment Operator | Name<br>EARL M. STII<br>ERNIE UMPH<br>EUGENE & C<br>UMPHRESS | RESS & SONS                                                                | Address BEDFORD, IND R R 3 BEDFORD IND RR6 License |                                     | Telephone               |
|                                                                                        |                                                              |                                                                            |                                                    |                                     |                         |
| Construction Details                                                                   |                                                              |                                                                            | B : 111                                            |                                     |                         |
| Well                                                                                   | Use: HOME Depth: 140.0                                       |                                                                            | Drilling method: CABLE To Pump setting depth:      | -                                   |                         |
| Casing                                                                                 | Length: 17.0                                                 |                                                                            | Material:                                          |                                     | quality:<br>ter: 60     |
| Screen                                                                                 | Length:                                                      |                                                                            | Material:                                          |                                     | ter: Slot size:         |
| Well Capacity Test                                                                     | Type of test: B<br>Drawdown: ft                              | AILING                                                                     | Test rate: gpm for h<br>Static water level: 19     |                                     | ITest rate: gpm for hrs |
| Grouting Information                                                                   | Material:<br>Installation M                                  | ethod:                                                                     |                                                    | Depth: from to Number of bags used. |                         |
| Well Abandonment                                                                       | Sealing materi<br>Installation Me                            |                                                                            |                                                    | Depth: from to Number of bags used: |                         |
| Administrative                                                                         | -                                                            | County: LAWRENCE Section: NW 1/4 of the SW 1/4 of the NE 1/4 of Section 29 |                                                    |                                     | Range: 1E<br>Topo map:  |
|                                                                                        |                                                              |                                                                            |                                                    |                                     | BARTLETTSVILLE          |
|                                                                                        |                                                              | Field located by: UHL                                                      |                                                    |                                     | , 1963                  |
|                                                                                        | Courthouse loc                                               | ·                                                                          |                                                    | on:                                 |                         |
|                                                                                        | Location accepted w/o verification by:                       |                                                                            |                                                    | on:                                 |                         |
|                                                                                        | Subdivision na                                               | me:                                                                        | D N 601                                            | Lot number:                         |                         |
|                                                                                        | Ft W of EL:                                                  |                                                                            | Ft N of SL:                                        | Ft E of WL: 10<br>Bedrock elevati   | *                       |
|                                                                                        | Ground elevation: 730 0  UTM Easting: 548406 0               |                                                                            | Depth to bedrock: 14 0                             | 716 0  UTM Northing.                | Aquifier elevation      |
|                                                                                        | • • • • • • • • • • • • • • • • • • •                        |                                                                            |                                                    |                                     |                         |
| Well Log                                                                               | Тор                                                          | Bottom                                                                     | Formation                                          |                                     |                         |
|                                                                                        | 0 0                                                          | 5 0                                                                        | DIRI                                               |                                     |                         |
|                                                                                        | 5 0                                                          | 140                                                                        | BROKEN LS                                          |                                     |                         |
|                                                                                        | 14 0                                                         | 20.0                                                                       | BLUE LS - H                                        |                                     |                         |
|                                                                                        | 20 0                                                         | 29 ()                                                                      | WHILE LS -                                         |                                     |                         |
|                                                                                        | 29 0                                                         | 50.0                                                                       | BR LS SOF                                          | Т                                   |                         |
|                                                                                        | 50 0                                                         | 75 0                                                                       | WHILE LS -                                         |                                     |                         |
|                                                                                        | 75 0                                                         | 86.0                                                                       | BLUE LS - H                                        | ARD                                 |                         |
|                                                                                        | 86 0                                                         | 120.0                                                                      | WHIIF LS -                                         | HARD                                |                         |
|                                                                                        | 120 0                                                        | 126 0                                                                      | BLUE US - H                                        | ARD                                 |                         |
|                                                                                        | 126 0                                                        | 132 ()                                                                     | WHITETS                                            |                                     |                         |
|                                                                                        | 132.0                                                        | [40]0                                                                      | BLUELS                                             |                                     |                         |
| Comments                                                                               | MC715                                                        |                                                                            |                                                    |                                     |                         |

| Reference Number                                | Driving directions to well                                         |                         | t was a second to the second t | enderschaft der Jackstein der F                                              | Date completed                   |
|-------------------------------------------------|--------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------|
| 217706                                          | 8 MILES NORTH EAST OF BEDFORD 2-1/2 MILES SOUTHWEST OF HELTONVILLE |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              | Thu, Aug 04, 1960                |
| Owner-Contractor Well Owner Building Contractor | Name<br>HAROLD DENISTON                                            | Address<br>RR 4, BEDFO  | RD IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              | Telephone                        |
| Drilling Contractor                             | PAUL SCOTT                                                         | RR 4, BLOOM             | IINGTON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |                                  |
| Equipment Operator                              | PAUL SCOTT                                                         | License:                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              |                                  |
| Construction Details                            |                                                                    |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              |                                  |
| Well                                            | Use:                                                               | Drilling metho          | od: CABLE TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pump type:                                                                   |                                  |
|                                                 | Depth: 110 0                                                       | Pump setting a          | lepth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Water quality                                                                | :                                |
| Casing<br>Screen                                | Length: 12.0<br>Length:                                            | Material:<br>Material:  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Diameter: 6 0<br>Diameter: Slo                                               |                                  |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft.                                     |                         | te: gpm for hrs.<br>water level: 16.0 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BailTest ro                                                                  | <b>ue:</b> 75.0 gpm for 1.0 hrs. |
| Grouting Information                            | Material:<br>Installation Method:                                  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | oth: from to nber of bags used:                                              |                                  |
| Well Abandonment                                | Sealing material:<br>Installation Method:                          |                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | oth: from to<br>mber of bags used:                                           |                                  |
| Administrative                                  | County: LAWRENCE Section: SW 1/4 of the NE                         | 1/4 of the NE 1/4 of    | F Section 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Township: 6N Range                                                           | Торо тар:                        |
|                                                 | Field located by: N-3                                              |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on: Fri, Nov 04, 1960                                                        | BARTLETTSVILLE                   |
|                                                 | Courthouse location by:                                            |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                                                                          |                                  |
|                                                 | Location accepted w/o ver                                          | ification by:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                                                                          |                                  |
|                                                 | Subdivision name:                                                  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number:                                                                  |                                  |
|                                                 | Ft W of EL: 900                                                    | Ft N of SL              | <i>≥</i> 2150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ft E of WL:                                                                  | Ft S of NL:                      |
|                                                 | Ground elevation: 745 0                                            | Depth to b              | edrock: 12 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Bedrock elevation:</b> 733 0                                              | Aquifier elevation.              |
|                                                 | UTM Easting: 551327 0                                              |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing: 4308                                                           | 943 0                            |
| Well Log                                        | Тор Во                                                             | ttom                    | Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |                                  |
|                                                 | 0 0 12                                                             | 0                       | BLANK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |                                  |
|                                                 | 12 0 60                                                            | 0                       | GRAY LIME MEDI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UM                                                                           |                                  |
|                                                 | 60 0                                                               | 0 0                     | BLUE SOAPSTONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | E SOFT                                                                       |                                  |
| Comments                                        | MC735                                                              | pr Jaman's grow you and |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | relativi killiko (lishigiar ku sintaglarikka ar v sintik arab (ankanasa ya v |                                  |

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| Reference Number                        | Driving directions to well                   | . L. Julian V. Mari Laurenn                      | e en    | Date completed                   |
|-----------------------------------------|----------------------------------------------|--------------------------------------------------|------------------------------------|----------------------------------|
| 21//11                                  | 3 MILES FROM HELTONVI                        | LLE ON PLEASANT RUN ROA                          | AD WEST                            | Mon Feb 12 1962                  |
| Owner-Contractor Well Owner             | <i>Name</i><br>HERMAN DECKARD                | Address<br>HELTONVILLE IN                        |                                    | Telephone                        |
| Building Contractor Drilling Contractor | FRNIE UMPHRESS & SONS                        | RR 6, BEDFORD IN                                 |                                    |                                  |
| Equipment Operator                      | ERNIE UMPHRESS & SONS                        | License                                          |                                    |                                  |
| Construction Details                    |                                              |                                                  |                                    |                                  |
| Well                                    | Use HOME                                     | Drilling method CABLE TOO                        | OL Pump type                       |                                  |
| _                                       | Depth 100 0                                  | Pump setting depth                               | Water qualit                       |                                  |
| Casing<br>Screen                        | Length 165<br>Length                         | Material<br>Material                             | Diameter 6<br>Diameter SI          |                                  |
| Well Capacity Test                      | Type of test<br>Drawdown ft                  | Test rate gpm for hrs<br>Static water level 30 ( |                                    | ate 40 gpm for hrs               |
| Grouting Information                    | Material<br>Installation Method              |                                                  | Depth from to Number of bags used  |                                  |
| Well Abandonment                        | Sealing material<br>Installation Method      |                                                  | Depth from to  Number of bags used |                                  |
| Administrative                          | County LAWRENCE Section NE 1/4 of the SW 1/4 | of the NW 1/4 of Section 28                      | Township 6N Range                  | 1E<br>Topo map<br>BARTLETTSVILLE |
|                                         | Field located by UHL                         |                                                  | on Sat Jun 01 1963                 |                                  |
|                                         | Courthouse location by                       |                                                  | on                                 |                                  |
|                                         | Location accepted w/o verifica               | tion by                                          | on                                 |                                  |
|                                         | Subdivision name                             |                                                  | Lot number                         |                                  |
|                                         | Ft W of FL 1500                              | Ft N of SL                                       | Ft E of WL                         | Ft S of NL 1600                  |
|                                         | Ground elevation 7650                        | Depth to bedrock 150                             | Bedrock elevation<br>750 ()        | Aquifier elevation               |
|                                         | UTM Fasting 551175 0                         |                                                  | UTM Northing 4308                  | 824 0                            |
| Well Log                                | Top Bottom                                   | Formation                                        |                                    |                                  |
|                                         | 0 0 12 0                                     | DIRT                                             |                                    |                                  |
|                                         | 12.0                                         | LIMESTONE B                                      | OUI DERS                           |                                  |
|                                         | 150 400                                      | LIMESTONE B                                      | BLUE HARD                          |                                  |
|                                         | 40 0 43 0                                    | LIMESTONE V                                      | VHITE SOFT                         |                                  |
|                                         | 43.0 54.0                                    | LIMESTONE B                                      | LUE HARD                           |                                  |
|                                         | 54 () 60 0                                   | LIMESTONE B                                      | ROWN HAR                           |                                  |
|                                         | 60 O 76 O                                    | LIMESTONE B                                      | LUE HARD                           |                                  |
|                                         | 76.0 100.0                                   | SHALE BLUE                                       | SOFI                               |                                  |
| Comments                                | MC                                           | and the approximations                           | -                                  |                                  |

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#### Record of Water Well

| Reference Number                                | Driving directions to                     | well           | all contributions and orcyclosis is a gradient party | and company of the                   | Date completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------|-------------------------------------------|----------------|------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 217608                                          | 8 MILES NORTH O                           | F BEDFORD I    | BARTLETTSVILLE ROAD                                  |                                      | Thu, Jul 28, 1960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>ROBERT TURNER              |                | dress<br>3, BEDFORD IN                               |                                      | Telephone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Drilling Contractor                             | PAUL SCOTT                                | RR             | 4, BLOOMINGTON IN                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Equipment Operator                              | PAUL SCOTT                                | Lic            | ense:                                                |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Construction Details                            |                                           |                |                                                      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Well                                            | Use: STOCK                                | Dri            | lling method: CABLE TOOL                             | Ритр сур                             | e:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                 | Depth: 95.0                               | Pur            | np setting depth:                                    | Water qu                             | ality:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Casing<br>Screen                                | Length: 11.0<br>Length:                   |                | terial:<br>terial:                                   | Diameter<br>Diameter                 | :: 6.5<br>:: Slot size:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft.            |                | Test rate: gpm for hrs. Static water level: 15.0 ft. |                                      | est rate: 60.0 gpm for 0.5 hrs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Grouting Information                            | Material:<br>Installation Method:         |                |                                                      | epth: from to<br>umber of bags used: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Well Abandonment                                | Sealing material:<br>Installation Method: |                |                                                      | epth: from to<br>umber of bags used: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Administrative                                  | County: LAWRENCE                          | 3              |                                                      | Township: 6N Ro                      | ange: 1E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                 | Section: SW 1/4 of the                    | e SW 1/4 of th | ne NW 1/4 of Section 20                              |                                      | Topo map: BARTLETTSVILLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                 | Field located by: HS                      |                |                                                      | on: Fr1, Nov 04, 1                   | 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                 | Courthouse location i                     | by:            |                                                      | on:                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | Location accepted w/e                     | o verification | by:                                                  | on:                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | Subdivision name:                         |                |                                                      | Lot number:                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | Ft W of EL:                               |                | Ft N of SL:                                          | Ft E of WL:                          | Ft S of NL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                 | Ground elevation: 53:                     | 5 0            | Depth to bedrock:                                    | Bedrock elevation                    | 1: Aquifier elevation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                 | UTM Easting: 548398                       |                | •                                                    | UTM Northing. 4                      | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Well Log                                        | Тор                                       | Bottom         | Formation                                            |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 0.0                                       | 10.0           | BLANK                                                |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 10.0                                      | 65 0           | BLUE SOAPSTON                                        | NE SOFT                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 | 65 0                                      | 95.0           | WHITE LIME ME                                        |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Comments                                        | MC                                        |                | WITH CLIME ME                                        |                                      | no considerations and the constant of the cons |

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| Reference Number                        | Driving directions to well                        | MANNE ERO INSBURS - 195 MAI V - TAULIERS - CHISA - FISA | us was dan is is a proper also so hadar | Date completed                      |
|-----------------------------------------|---------------------------------------------------|---------------------------------------------------------|-----------------------------------------|-------------------------------------|
| 217613                                  | APP 1-1/4 MI NE OF PLEAS                          | ANT RUN CHURCH                                          |                                         | Tue, Dec 11, 1962                   |
| Owner-Contractor Well Owner             | <i>Name</i><br>JOHN HEARTH                        | Address<br>BEDFORD IN                                   |                                         | Telephone                           |
| Building Contractor Drilling Contractor | ERNIE UMPHRESS & SONS                             | RR 6 .BEDFORD IN                                        |                                         |                                     |
| Equipment Operator                      | E. & C UMPHRESS                                   | License                                                 |                                         |                                     |
| Construction Details                    |                                                   |                                                         |                                         |                                     |
| Well                                    | Use: STOCK                                        | Drilling method: CABLE TO                               |                                         |                                     |
| C                                       | Depth: 260 0                                      | Pump setting depth:                                     | Water quali                             |                                     |
| Casing<br>Screen                        | Length: 100<br>Length:                            | Material:<br>Material:                                  | Diameter: 6<br>Diameter: S              |                                     |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft                     | Test rate: gpm for hrs<br>Static water level: 15        |                                         | rate: 0 1 gpm for hrs.              |
| Grouting Information                    | Material:<br>Installation Method:                 |                                                         | Depth: from to Number of bags used:     |                                     |
| Well Abandonment                        | Sealing material:<br>Installation Method:         |                                                         | Depth: from to `Number of bags used:    |                                     |
| Administrative                          | County: LAWRENCE<br>Section: SW 1/4 of the SW 1/4 | of the SE 1/4 of Section 20                             | Township: 6N Rang                       | e: 1E<br>Topo map<br>BARTLETTSVILLE |
|                                         | Field located by: UHB                             |                                                         | on: Sat, Jun 01, 1963                   |                                     |
|                                         | Courthouse location by:                           |                                                         | on:                                     |                                     |
|                                         | Location accepted w/o verifica                    | tion by:                                                | on:                                     |                                     |
|                                         | Subdivision name:                                 |                                                         | Lot number:                             |                                     |
|                                         | Ft W of EL: 2100                                  | Ft N of SL: 150                                         | Ft E of WL:                             | Ft S of NL:                         |
|                                         | Ground elevation: 770 0                           | Depth to bedrock: 80                                    | Bedrock elevation:<br>762 0             | Aquifier elevation                  |
|                                         | UTM Easting: 549348 0                             |                                                         | UTM Northing: 4309                      | 9398 0                              |
| Well Log                                | Top Bottom                                        | Formation                                               |                                         |                                     |
|                                         | 0 0 5 0                                           | DIRI                                                    |                                         |                                     |
|                                         | 5 0 8 0                                           | BOULDERS &                                              | HOLES                                   |                                     |
|                                         | 8 0 20 0                                          | BLUE LIMES                                              | TONE HARD                               |                                     |
|                                         | 20 0 36 0                                         | GRAY LIMES                                              | TONE SOFT                               |                                     |
|                                         | 36 0 54 0                                         | BLUF LIMES                                              | TONE HARD                               |                                     |
|                                         | 54 0 58 0                                         | BROWN LIM                                               | ESTONE HARD                             |                                     |
|                                         | 58 0 63 0                                         | BI UF SHALE                                             | SOFT                                    |                                     |
|                                         | 63 0 76 0                                         | BLUFTIMES                                               | TONE HARD                               |                                     |
|                                         | 76 0 91 0                                         | BROW∑LIMI                                               | ESTONE HARD                             |                                     |
|                                         | 91 0 94 0                                         | MUCHY SHA                                               | I E SOFT                                |                                     |
|                                         | 94 0 115 0                                        | GRAYTIMES                                               | TONE HARD                               |                                     |
|                                         | 115 0 137 0                                       | BLUETIMES                                               | IONE SOFT                               |                                     |
|                                         | 137 0 260 0                                       | BILESHALE                                               | SOFF                                    |                                     |

Comments MC760

292

| Reference Number                                | Driving directions to         | well                                           | endek e hij destandende de erek kalek en 1984 (1984)    | Date completed                              |  |  |
|-------------------------------------------------|-------------------------------|------------------------------------------------|---------------------------------------------------------|---------------------------------------------|--|--|
| 217618                                          | BARTLESTTSVILLI               | BARTLESTTSVILLE & BEDFORD ROAD BAT HOLLOW LAKE |                                                         |                                             |  |  |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>ROY SCHERSCHEL |                                                | ddress<br>R 3 BEDFORD IN                                | Telephone                                   |  |  |
| Drilling Contractor                             | FLOYD STULTZ                  | R                                              | R 4, BEDFORD IN                                         |                                             |  |  |
| Equipment Operator                              | FLOYD STULTZ                  | L                                              | cense:                                                  |                                             |  |  |
| Construction Details                            |                               |                                                |                                                         |                                             |  |  |
| Well                                            | Use: HOME                     | D                                              | rilling method: CABLE TOOL                              | Pump type:                                  |  |  |
|                                                 | Depth: 200 0                  | P                                              | imp setting depth:                                      | Water quality:                              |  |  |
| Casing<br>Screen                                | Length: 50<br>Length:         |                                                | aterial:<br>aterial:                                    | Diameter: 6 0<br>Diameter: Slot size:       |  |  |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft |                                                | Test rate: gpm for his<br>Static water level: 150 0 ft. | BailTest rate: -1 0 gpm for 8 0 hrs.        |  |  |
| Grouting Information                            | Material:                     |                                                | Dej                                                     | oth: from to                                |  |  |
|                                                 | Installation Method:          |                                                | Nu                                                      | nber of bags used:                          |  |  |
| Well Abandonment                                | Sealing material:             |                                                | Dep                                                     | th: from to                                 |  |  |
|                                                 | Installation Method:          |                                                | Nu                                                      | nber of bags used:                          |  |  |
| Administrative                                  | County: LAWRENCE              | :                                              |                                                         | Township: 6N Range: 1E                      |  |  |
|                                                 |                               |                                                | the NE 1/4 of Section 19                                | <i>Topo map:</i><br>BARTLETTSVILLE          |  |  |
|                                                 | Field located by: JVH         |                                                |                                                         | on: Mon, Aug 01, 1966                       |  |  |
|                                                 | Courthouse location b         | •                                              | , hu                                                    | on:<br>on:                                  |  |  |
|                                                 | Subdivision name:             | , crigiciaro,                                  | . • • • • • • • • • • • • • • • • • • •                 | Lot number:                                 |  |  |
|                                                 | Ft W of EL: 2300              |                                                | Ft N of SL:                                             | Ft E of WL: Ft S of NL 1600                 |  |  |
|                                                 | Ground elevation: 640         | 0 0                                            | Depth to bedrock: 50                                    | Bedrock elevation. 635 0 Aquifier elevation |  |  |
|                                                 | UTM Easting: 547659           | 0 ()                                           |                                                         | UTM Northing: 4310429 0                     |  |  |
| Well Log                                        | Тор                           | Bottom                                         | Formation                                               |                                             |  |  |
|                                                 | 0 0                           | 5.0                                            | CLAY                                                    |                                             |  |  |
|                                                 | 5 0                           | 95 ()                                          | LIMESTONE                                               |                                             |  |  |
|                                                 | 95 0                          | 200 ()                                         | SOAPSTONE                                               |                                             |  |  |

Comments

MC 580

#### Record of Water Well

#### Indiana Department of Natural Resources

| Reference Number 217623                                            | Driving directions to  1 MI SOUTH OF BAI TURN IN ROAD IN I | DI TETT IN O   | N TOP OF HILL AT HAIR P                          | PIN CURVE 160 FT W OF                   | Date completed  Thu, Jun 15, 1961  |
|--------------------------------------------------------------------|------------------------------------------------------------|----------------|--------------------------------------------------|-----------------------------------------|------------------------------------|
| Owner-Contractor Well Owner Building Contractor Dnlling Contractor | Name<br>LEBERT STARR<br>ALBERT LENTZ                       |                | ress<br>BEDFORD IN<br>83, SMITHVILLE IN          |                                         | Telephone                          |
| Equipment Operator                                                 | B ERIE 20W                                                 | Licei          | nse:                                             |                                         |                                    |
| Construction Details                                               |                                                            |                |                                                  |                                         |                                    |
| Well                                                               | Use: HOME Depth: 260 0 Length: 30.0                        |                | ing method: CABLE TOOL p setting depth: rial:    | Pump type:<br>Water qual<br>Diameter: ( | ity:                               |
| Screen                                                             | Length:                                                    | Mate           |                                                  | Diameter:                               |                                    |
| Well Capacity Test                                                 | Type of test:<br>Drawdown: ft                              |                | Test rate: gpm for hrs.  Static water level: ft. | BailTesi                                | trate: gpm for hrs                 |
| Grouting Information                                               | Material:<br>Installation Method:                          |                |                                                  | epth: from to umber of bags used:       |                                    |
| Well Abandonment                                                   | Sealing material:<br>Installation Method:                  |                |                                                  | epth: from to umber of bags used:       |                                    |
| Administrative                                                     | County: LAWRENCE<br>Section: NW 1/4 of the                 |                | NE 1/4 of Section 18                             | Township: 6N Ran                        | ge: 1E<br>Topo map: BARTLETTSVILLE |
|                                                                    | Field located by: UHL                                      |                | . IVE 174 of Section 16                          | on: Sat. Jun 01, 196                    | •                                  |
|                                                                    | Courthouse location b                                      |                |                                                  | on:                                     | -                                  |
|                                                                    | Location accepted w/o                                      | verification b | y:                                               | on:                                     |                                    |
|                                                                    | Subdivision name.                                          |                |                                                  | Lot number                              |                                    |
|                                                                    | Ft W of EL: 2300                                           |                | Ft N of SL:                                      | Ft E of WL:                             | Ft S of NL: 1700                   |
|                                                                    | Ground elevation: 610                                      | 0              | Depth to bedrock:                                | Bedrock elevation:                      | Aquifier elevation                 |
|                                                                    | UTM Easting: 547633                                        | 0              |                                                  | UTM Northing 43                         | 11958 0                            |
| Well Log                                                           | Тор                                                        | Bottom         | Formation                                        |                                         |                                    |
|                                                                    | 0.0                                                        | 0.0            | NO INFORMATIO                                    | NC                                      |                                    |

| Reference Number 217346                    | Driving directions to well    | THE STATE OF THE S | n mit varine in the paradeleter of study per per de | Date completed     |
|--------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------|
| 21/340                                     | AVOCA                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     | Fn, Apr 02, 1954   |
| Owner-Contractor                           | Name                          | Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     | Telephone          |
| Well Owner                                 | HILLTOP PENTECOSTAL<br>CHURCH |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |                    |
| Building Contractor<br>Drilling Contractor | HOMER ALFORD                  | RR3 MITHCELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |                    |
| Equipment Operator                         |                               | License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     |                    |
| Construction Details                       |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |                    |
| Well                                       | Use HOME                      | Drilling method CABLE TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | OL Pump type                                        |                    |
|                                            | Depth 130 0                   | Pump setting depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Water quality                                       | y                  |
| Casing                                     | Length 300                    | Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Diameter 5                                          |                    |
| Screen                                     | Length                        | Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Diameter Slo                                        | ot size            |
| Well Capacity Test                         | Type of test<br>Drawdown (t   | Test rate gpm for hrs<br>Static water level 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                     | ate 10 gpm for hrs |
|                                            | Drawaown II                   | Static water level 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Oπ                                                  |                    |
| Grouting Information                       | Material                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth from to                                       |                    |
|                                            | Installation Method           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used                                 |                    |
| Well Abandonment                           | Sealing material.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth from to                                       |                    |
|                                            | Installation Method           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used                                 |                    |
| Administrative                             | County LAWRENCE               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township 6N Range                                   | IW                 |
|                                            | Section 1/4 of the 1/4 of the | 1/4 of Section 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     | Topo map OOLITIC   |
|                                            | Field located by              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on                                                  |                    |
|                                            | Courthouse location by        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on                                                  |                    |
|                                            | Location accepted w/o verific | cation by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | on                                                  |                    |
|                                            | Subdivision name              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number                                          |                    |
|                                            | Ft W of EL                    | Ft N of SL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ft F of WL                                          | Ft S of NL         |
|                                            | Ground elevation              | Depth to bedrock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Redrock elevation                                   | Aquifier elevation |
|                                            | UTM Easting 538584 0          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing 43067                                  | 798 0              |
| Vell Log                                   | Top Botto                     | n Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     |                    |
|                                            | 0 0 25 0                      | OVERBURDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NCLAY ROCKS                                         |                    |
|                                            | 25 0 30 0                     | SOLID ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |                    |
|                                            | 30 0 130 0                    | LS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                     |                    |
| Common ents                                | WELL HAS DESERVE OF 40        | GAL SOME SULPHER WAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FP 80 00                                            |                    |
| omments                                    | WILL HAS KEST KAT OLD         | MALE SOUTH SULFIER WAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AIX O7 707                                          |                    |

| 217351                                          | NEAREST TOWN                                                       | AVOCA           |                        |                      |                                    |                                    |
|-------------------------------------------------|--------------------------------------------------------------------|-----------------|------------------------|----------------------|------------------------------------|------------------------------------|
|                                                 |                                                                    |                 |                        |                      |                                    |                                    |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>DR. BENHAM                                          |                 | Address                |                      |                                    | Telephone                          |
| Drilling Contractor                             | HOMER ALFORD                                                       | 1               | RR3 MITHCI             | ELL                  |                                    |                                    |
| Equipment Operator                              |                                                                    | Ī               | License:               |                      |                                    |                                    |
| Construction Details                            |                                                                    |                 |                        |                      |                                    |                                    |
| Well                                            | Use: HOME                                                          | i               | Drilling meth          | od: CABLE TOOL       | Pump type:                         |                                    |
|                                                 | Depth: 131.0                                                       |                 | Pump setting           | depth:               | Water quality                      |                                    |
| Casing<br>Screen                                | Length: 15 0<br>Length:                                            |                 | Material:<br>Material: |                      | Diameter: 5.6<br>Diameter: Sla     |                                    |
| Well Capacity Test                              | Type of test:                                                      |                 | Test r                 | ate: gpm for hrs.    | BailTest ra                        | ue: 120 gpm for hrs                |
|                                                 | Drawdown: ft.                                                      |                 | Static                 | water level: 36 0 ft |                                    |                                    |
| Grouting Information                            | Material:                                                          |                 |                        | De                   | pth: from to                       |                                    |
|                                                 | Installation Method                                                | đ:              |                        | Nu                   | mber of bags used:                 |                                    |
| Vell Abandonment                                | Sealing material:<br>Installation Method                           | <b>:</b>        |                        | -                    | pth: from to<br>mber of bags used: |                                    |
| dministrative                                   | County: LAWRENCE  Section: 1/4 of the 1/4 of the 1/4 of Section 31 |                 |                        | Township: 6N Range:  |                                    |                                    |
|                                                 |                                                                    | 174 01 1116 174 | of Section 31          |                      |                                    | Topo map: OOLITIC                  |
|                                                 | Field located by:                                                  |                 |                        |                      | on:                                |                                    |
|                                                 | Courthouse location                                                | -               | •                      |                      | on:                                |                                    |
|                                                 | Location accepted v                                                | vio verijicatio | on by:                 |                      | on:                                |                                    |
|                                                 | Subdivision name:  Ft W of EL:                                     |                 | Ft N of S              | 1.                   | Lot number:                        | FAC - CNII.                        |
|                                                 | Ground elevation:                                                  |                 | Depth to               |                      | Ft E of WL:  Bedrock elevation:    | Ft S of NL:<br>Aquifier elevation: |
|                                                 | UTM Easting: 5387                                                  | 724 0           |                        |                      | UTM Northing: 43070                | • •                                |
| Yell Log                                        | Тор                                                                | Bottom          |                        | Formation            |                                    |                                    |
| ica sog                                         | 0.0                                                                | 12 0            |                        | OVERBURDEN (         | LAY ROCKS                          |                                    |
|                                                 | 12 0                                                               | 150             |                        | SOLID ROCK           |                                    |                                    |
|                                                 | 15 0                                                               | 131 0           |                        | IN STATE ROCK        |                                    |                                    |

| Reference Number<br><b>291792</b> | Driving directions to   | well              |                             |                                    | Date completed     |
|-----------------------------------|-------------------------|-------------------|-----------------------------|------------------------------------|--------------------|
| 471174                            | 4 MI SE BEDFOR          | D                 |                             |                                    |                    |
| Owner-Contractor<br>Well Owner    | Name<br>COUNTY PROPERT  | Addi              | ress<br>POOR FARM           |                                    | Telephone          |
| Building Contractor               |                         | i OLL             | POOR FARM                   |                                    |                    |
| Onlling Contractor                | HOMER ALFORD            | -                 |                             |                                    |                    |
| Equipment Operator                |                         | Lice              | nse                         |                                    |                    |
| Construction Details              |                         |                   |                             |                                    |                    |
| Vell                              | Use: DOMESTIC           | Drill             | ing method: CABLE TOOL      | Pump type:                         |                    |
|                                   | Depth: 145 0            | •                 | p setting depth             | Water quality:                     |                    |
| Casing<br>Screen                  | Length: 30 0<br>Length: | Mate<br>Mate      |                             | Diameter: 6 25<br>Diameter: Slot   |                    |
|                                   | <b>g</b>                |                   |                             | Old Miles                          |                    |
| Well Capacity Test                | Type of test:           |                   | Test rate: gpm for hrs      | for hrs BailTest rate: 2 0 gpm for |                    |
|                                   | Drawdown: ft            |                   | Static water level: 24 0 ft |                                    |                    |
| Frouting Information              | Material:               |                   | D                           | epth: from to                      |                    |
|                                   | Installation Method     |                   | N                           | umber of bags used                 |                    |
| Vell Abandonment                  | Sealing material:       |                   | D                           | epth: from to                      |                    |
|                                   | Installation Method:    |                   | N                           | umber of bags sid:                 |                    |
| Administrative                    | County: LAWRENCE        | 3                 |                             | Township: 5N Range:                | 1E                 |
|                                   | Section: 1/4 of the 1/- | of the 1/4 of S   | ection 30                   |                                    | Topo map·          |
|                                   | Field located by:       |                   |                             | on·                                |                    |
|                                   | Courthouse location     | by:               |                             | on·                                |                    |
|                                   | Location accepted w/    | o verification by | y                           | on:                                |                    |
|                                   | Subdivision name:       |                   |                             | Lot number:                        |                    |
|                                   | Ft W of EL              | Ft N of           | SL                          | Ft E of WL.                        | Ft S of NL         |
|                                   | Ground elevation        | Depth t           | o bedrock · 122 0           | Bedrock elevation:                 | Aquifier elevation |
|                                   | UTM Easting             |                   |                             | UTM Northing                       |                    |
| Vell Log                          | Тор                     | Bottom            | Formation                   |                                    |                    |
| ŭ                                 | 0 0                     | 23 0              | CLAY & BOULD                | ERS                                |                    |
|                                   | 23 0                    | 145 ()            | LIME                        |                                    |                    |
|                                   |                         |                   |                             |                                    |                    |

| TAKE 50 E TOWARD BEDFORD GO N ON HWY30 AS SOON AS YOU CROSS WHITE RIVER TURN BACK E (SANDPORT RD) GO TO ICE RD GO N APPROX 2 MI TURN ON Fri, May 26, 1995  (SEE COMMENTS)  Owner-Contractor Well Owner Bell Dentactor Bell Henderson Be | Reference Number     | Driving directions to            |                       |                                         |                          |                        |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------|-----------------------|-----------------------------------------|--------------------------|------------------------|--|--|
| BILL HENDERSON   2904 TED JONES DR. APT. D, BEDFORD, IN 47421                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 294237               | RIVER TURN BACK                  |                       |                                         | N Fri, May 26, 1995      |                        |  |  |
| Drilling Contractor Equipment Operator Equipment Operator Equipment Operator Equipment Operator Equipment Operator Extra SWARTZENTRUBER    Depth: 300  Depth: 300 0  Length: 300 0  Material: PVC Diameter: 4 5 Slot size:  Well Capacity Test  Type of test: Drawdown: ft Static water level: 100 0 ft  Depth: from 30 0 to 0  Installation Method: PUMP Number of bags used:  Material: Depth: from to Number of bags used:  Administrative  County: LAWRENCE Section: 1/4 of the 1/4 of Section 29 Field located by. Courthouse location by: Location accepted w/o verification by: Subdivision name: Fi W of EL: Ground elevation: UTM Easting  Top Bottom Formation  Vell Log  Top  Bottom Formation  R1 BOX 507, MONTGOMERY, IN 47558 License: 302  Limes 202  Pump type: Water quality: Wate | Well Owner           |                                  |                       | JONES DR , APT. D, BE                   | Telephone                |                        |  |  |
| Construction Details  Well Use: HOME Dethi: 300 0 Pump setting depth: Water quality: Depth: 300 0 Pump setting depth: Water quality: Length: 300 0 Material: PVC Diameter: 6 0 Length: 280 0 Material: PVC Diameter: 4 5 Slot size:  Well Capacity Test Type of test: Test rate: 1 5 gpm for hrs BailTest rate: gpm for hrs Drawdown: ft Static water level: 100 0 ft  Grouting Information Material: BNSL Installation Method: PUMP Number of bags used: 2 0  Well Abandonment Sealing material: Depth: from 10 Installation Method: Number of bags used:  Administrative County: LAWRENCE Township: 5N Range: 1E Section: 1/4 of the 1/4 of the 1/4 of Section 29 Topo map: BEDFORD EAS' Field located by: on: Courthouse location by: on: Location accepted w/o verification by: County election by: on: Subdivision name: Lot number: Fit W of EL: Fit N of SL: Fit E of WL. Fit S of NL Ground elevation: UTM Seating UTM Northing:  Vell Log Top Bottom Formation  O 30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                                  | R1 BOX 5              | 07, MONTGOMERY, IN                      | 47558                    |                        |  |  |
| Well Use: HOME Drilling method: ROTARY Pump type: Depth: 300 Pump setting depth: Water quality: Length: 300 Material: PVC Diameter: 4 5 Slot size:  Well Capacity Test Type of test: Test rate: 1 5 gpm for hrs Drawdown: ft Static water level: 100 0 ft  Grouting Information Material: BNSL Depth: from 30 0 to 0 0 Installation Method: PUMP Number of bags used: 2 0  Well Abandonment Sealing material: Depth: from to Installation Method: Number of bags used:  Maministrative County: LAWRENCE Township: 5N Range: 1E Section: 1/4 of the 1/4 of Section 29 Topo map: BEDFORD EAS' Field located by. on: Courthouse location by: on: Location accepted w/o verification by: on: Subdivision name: Lot number: Fit W of EL: Fit N of SL: Fit E of WL. Fit S of NL Ground elevation: Depth to bedrock: Bedrock elevation: Aquifier elevation UTM Easting UTM Northing:  Vell Log Top Bottom Formation  Top Bottom Formation  Top Bottom Formation  Tourn SEANS, SAND  30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment Operator   |                                  | License: 3            | 02                                      |                          |                        |  |  |
| Depth: 300 0 Pump setting depth: Water quality: Length: 30 0 Material: PVC Diameter: 6 0 Length: 280 0 Material: PVC Diameter: 4 5 Slot size:  Well Capacity Test Type of test: Test rate: 1 5 gpm for his BailTest rate: gpm for his Drawdown: ft Static water level: 100 0 ft  Grouting Information Material: BNSL Depth: from 30 0 to 0 0 Installation Method: PUMP Number of bags used: 2 0  Well Abandonment Sealing material: Depth: from to Installation Method: Number of bags used:  Administrative County: LAWRENCE Township: 5N Range: 1E Section: 1/4 of the 1/4 of the 1/4 of Section 29 Topo map: BEDFORD EAS' Field located by: on: Courthouse location by: on: Location accepted w/o verification by: on: Subdivision name: Lot number: Fit W of EL: Fit N of SL: Fit E of WL. Fit S of NL. Ground elevation: Depth to bedrock: Bedrock elevation: Aquifier elevation UTM Easting UTM Northing:  Vell Log Top Battom Formation  0 0 30 0 CLAY, MUD SEAMS, SAND 30 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Construction Details |                                  |                       |                                         |                          |                        |  |  |
| Casing   Length: 30 0   Material: PVC   Diameter: 6 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Well                 |                                  | Drilling m            | ethod: ROTARY                           | Pump type:               |                        |  |  |
| Recent   Length: 280 0   Material: PVC   Diameter: 4 5 Slot size:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      | •                                | •                     | • •                                     |                          |                        |  |  |
| Drawdown: ft Static water level: 100 0 ft  Grouting Information Material: BNSL Installation Method: PUMP Number of bags used: 2 0  Well Abandonment Sealing material: Depth: from 10 Installation Method: Number of bags used: 2 0  Material: Depth: from 10 Installation Method: Number of bags used:   County: LAWRENCE Township: 5N Range: 1E  Section: 1/4 of the 1/4 of Section 29 Topo map: BEDFORD EAS' Field located by. on: Courthouse location by: on: Location accepted w/o verification by: on: Subdivision name: Lot number: Ft W of EL: Ft N of SL: Ft E of WL. Ft S of NL Ground elevation: Depth to bedrock: Bedrock elevation: Aquifier elevation UTM Easting UTM Northing:  Vell Log Top Bottom Formation  Top Bottom Formation  Top Bottom Formation  O 30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>             |                                  |                       |                                         |                          |                        |  |  |
| Installation Method: PUMP  Number of bags used: 2 0  Well Abandonment  Sealing material: Installation Method:  County: LAWRENCE Section: 1/4 of the 1/4 of Section 29  Township: 5N Range: 1E Section: 1/4 of the 1/4 of Section 29  Topo map: BEDFORD EAS' Field located by.  Courthouse location by: Location accepted w/o verification by: Subdivision name: Fit W of EL: Fit N of SL: Fit E of WL. Ground elevation: UTM Easting  Top  Bottom Formation  Vell Log  Top  Bottom Formation  O CLAY, MUD SEAMS, SAND JO CLAY, MUD SEAMS, SAND JO LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Well Capacity Test   |                                  |                       |                                         | ate: gpm for hrs         |                        |  |  |
| Well Abandonment  Sealing material: Installation Method:  County: LAWRENCE Section: 1/4 of the 1/4 of Section 29 Topo map: BEDFORD EAS' Field located by. Courthouse location by: Location accepted w/o verification by: Subdivision name: Fit W of EL: Fit N of SL: Ground elevation: UTM Easting  Depth: from to Number of bags used:  Township: 5N Range: 1E Topo map: BEDFORD EAS' On: Lot number: Fit E of WL. Fit S of NL Ground elevation: Depth to bedrock: Bedrock elevation: Aquifier elevation UTM Northing:  Vell Log  Top Bottom Formation  O 30 0 CLAY, MUD SEAMS, SAND  30 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Grouting Information | ting Information Material · BNSL |                       |                                         | th: from 30 0 to 0 0     |                        |  |  |
| Installation Method:  County: LAWRENCE Section: 1/4 of the 1/4 of Section 29 Topo map: BEDFORD EAS: Field located by. Courthouse location by: Location accepted w/o verification by: Subdivision name: Fit W of EL: Fit N of SL: Ground elevation: UTM Easting  Top  Bottom Formation  Vell Log  Topo map: BEDFORD EAS: Topo map: |                      | Installation Method: PUMP        |                       | Num                                     | Number of bags used: 2 0 |                        |  |  |
| Administrative  County: LAWRENCE Section: 1/4 of the 1/4 of Section 29  Field located by.  Courthouse location by: Location accepted w/o verification by: Subdivision name: Fit W of EL: Fit N of SL: Ground elevation: UTM Easting  Top Bottom Formation  Vell Log  Top Bottom Formation  O CLAY, MUD SEAMS, SAND  30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Well Abandonment     | •                                |                       | Dept                                    | h: from to               |                        |  |  |
| Section: 1/4 of the 1/4 of the 1/4 of Section 29  Field located by.  Courthouse location by:  Location accepted w/o verification by:  Subdivision name:  Fit W of EL:  Fit N of SL:  Fit E of WL.  Ground elevation:  UTM Easting  Top  Bottom  Formation  Vell Log  Top  Bottom  Formation  CLAY, MUD SEAMS, SAND  30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | Installation Method:             |                       | Num                                     | ber of bags used:        |                        |  |  |
| Field located by.  Courthouse location by:  Location accepted w/o verification by:  Subdivision name:  Fit W of EL:  Fit N of SL:  Fit E of WL.  Ground elevation:  Depth to bedrock:  Bedrock elevation:  Aquifier elevation  UTM Easting  Top  Bottom  Formation  O 30 0 CLAY, MUD SEAMS, SAND  30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Administrative       | •                                | of the 1/1 of C       | . 20                                    |                          |                        |  |  |
| Courthouse location by:  Location accepted w/o verification by:  Subdivision name:  Fit W of EL:  For Nof SL:  Ground elevation:  UTM Easting  Top  Bottom  Formation  0 0 30 0  CLAY, MUD SEAMS, SAND  30 0 122 0  LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |                                  | of the 174 of Section | 1 29                                    |                          | Topo map: BEDFORD EAST |  |  |
| Subdivision name:  Ft W of EL:  Ft N of SL:  Ft E of WL.  Ft S of NL  Ground elevation:  UTM Easting  Top  Bottom  Formation  0 0 30 0  CLAY, MUD SEAMS, SAND  30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | -                                | y:                    |                                         |                          |                        |  |  |
| Ft W of EL:  Ground elevation:  UTM Easting  Top  Bottom  Formation  0 0 30 0 CLAY, MUD SEAMS, SAND  30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      | Location accepted w/o            | verification by:      |                                         | on:                      |                        |  |  |
| Ground elevation:  UTM Easting  Top Bottom Formation  0 0 30 0 CLAY, MUD SEAMS, SAND  30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      | Subdivision name:                |                       |                                         | Lot number:              |                        |  |  |
| Vell Log         Top         Bottom         Formation           0 0         30 0         CLAY, MUD SEAMS, SAND           30 0         122 0         LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | Ft W of EL:                      | Ft N o                | Ft N of SL: Ft E of WL.                 |                          | Ft S of NL             |  |  |
| Well Log         Top         Bottom         Formation           0.0         30.0         CLAY, MUD SEAMS, SAND           30.0         122.0         LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | Ground elevation:                | Depth                 | Depth to bedrock: Bedrock elevation: Ac |                          | Aquifier elevation     |  |  |
| 0 0 30 0 CLAY, MUD SEAMS, SAND 30 0 122 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | UTM Easting                      |                       |                                         | UTM Northing             |                        |  |  |
| 30 0 LIME & LIME BRKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Vell Log             | Тор                              | Bottom                | Formation                               |                          |                        |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | 0 0                              | 30.0                  | CLAY, MUD SEAM                          | S, SAND                  |                        |  |  |
| 122 0 °00 0 LIME SHALE BRK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | 30 0                             | 122 0                 | LIME & LIME BRK                         | S                        |                        |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | 122 0                            | 200.0                 | LIME SHALE BRK                          |                          |                        |  |  |

| Reference Number 220914                         | Driving directions to well    |                       |                      | Date completed             |
|-------------------------------------------------|-------------------------------|-----------------------|----------------------|----------------------------|
| 220914                                          |                               |                       |                      | Wed Oct 20 1954            |
| Owner Contractor Well Owner Building Contractor | <i>Name</i><br>ADAMSON        | Address<br>EUREKA     |                      | Telephone                  |
| Drilling Contractor                             | HOMER ALFORD                  | R3 MITCHELL           |                      |                            |
| Equipment Operator                              |                               | License               |                      |                            |
| Construction Details                            |                               |                       |                      |                            |
| Well                                            | Use HOME                      | Drilling method CABLE | TOOL Pump typ        | e                          |
|                                                 | Depth 161 0                   | Pump setting depth    | Water qu             | ality                      |
| Casing<br>Screen                                | Length 620<br>Length          | Material<br>Material  | Diameter<br>Diameter | Slot size                  |
| Well Capacity Test                              | Type of test                  | Test rate gpin for    | hrs BailTe           | est rate 15 gpm for 05 hrs |
|                                                 | Drawdown ft                   | Static water level    | 70 0 ft              |                            |
| Grouting Information                            | Matenal                       |                       | Depth from to        |                            |
|                                                 | Installation Method           |                       | Number of bags used  |                            |
| Well Abandonment                                | Sealing material              |                       | Depth from to        |                            |
|                                                 | Installation Method           |                       | Number of bags used  |                            |
| Administrative                                  | County LAWRENCE               |                       | Township 5N Ra       | nge IW                     |
|                                                 | Section 1/4 of the 1/4 of the | e 1/4 of Section 18   |                      | Topo map BEDFORD WEST      |
|                                                 | Field located by              |                       | on                   |                            |
|                                                 | Courthouse location by        |                       | on                   |                            |
|                                                 | Location accepted w/o verif   | fication by           | on                   |                            |
|                                                 | Subdivision name              |                       | Lot number           |                            |
|                                                 | Ft W of FI                    | Ft N of SL.           | Ft F of WL           | Ft S of NL                 |
|                                                 | Ground elevation              | Depth to bedrock      | Bedrock elevation    | Aquifier elevation         |
|                                                 | LTM Fasting                   |                       | UFM Northing         |                            |
| Well Log                                        | Гор Вош                       | om Formation          |                      |                            |
|                                                 | 0 () 62 0                     | OVERBUR               | DEN CLAY BLORS IS    |                            |
|                                                 | 65 () 161                     | 0 LS                  |                      |                            |
|                                                 |                               |                       |                      |                            |

| Reference Number 220909                         | Driving directions to well    | 1                      |                                                  |                                        | Date completed             |
|-------------------------------------------------|-------------------------------|------------------------|--------------------------------------------------|----------------------------------------|----------------------------|
| 220707                                          |                               |                        |                                                  |                                        | Thu, Aug 19, 1954          |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>MRS PINKSTON   | Address<br>EUREKA      |                                                  |                                        | Telephone                  |
| Drilling Contractor                             | HOMER ALFORD                  | R2 MITCH               | IELL                                             |                                        |                            |
| Equipment Operator                              |                               | License:               |                                                  |                                        |                            |
| Construction Details                            |                               |                        |                                                  |                                        |                            |
| Well                                            | Use: HOME                     | Drilling m             | ethod: JET                                       | Pump type:                             |                            |
|                                                 | Depth: 164 0                  | Pump setti             | ng depth:                                        | Water quali                            |                            |
| Casing<br>Screen                                | Length: 49.5<br>Length:       | Material:<br>Material: |                                                  | Diameter: 5<br>Diameter: S             |                            |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft |                        | st rate: gpm for hrs<br>tic water level: 76 0 ft | Bai/Test                               | rate: 1 0 gpm for 0 5 hrs. |
| Grouting Information                            | Material:                     |                        | Dez                                              | oth: from to                           |                            |
|                                                 | Installation Method:          |                        | •                                                | mber of bags used:                     |                            |
| Well Abandonment                                | Sealing material:             |                        | Dep                                              | oth: from to                           |                            |
|                                                 | Installation Method:          |                        | Nui                                              | mber of bags used:                     |                            |
| Administrative                                  | County: LAWRENCE              |                        |                                                  | Township: 5N Rang                      |                            |
|                                                 | Section: 1/4 of the 1/4 of t  | the 1/4 of Section     | 18                                               |                                        | Topo map: BEDFORD WES      |
|                                                 | Field located by:             |                        |                                                  | on:                                    |                            |
|                                                 | Courthouse location by:       |                        |                                                  | on:                                    |                            |
|                                                 | Location accepted w/o ver     | rification by:         |                                                  | on:                                    |                            |
|                                                 | Subdivision name:             |                        |                                                  | Lot number.                            |                            |
|                                                 | Ft W of EL:                   | Ft N o                 | f SL:                                            | Ft E of WL:                            | Ft S of NL:                |
|                                                 | Ground elevation:             | Depth                  | to bedrock:                                      | Bedrock elevation:                     | Aquifier elevation:        |
|                                                 | UTM Easting:                  |                        |                                                  | UTM Northing.                          |                            |
| Vell Log                                        | Гор Во                        | ottom                  | Formation                                        | ************************************** |                            |
|                                                 | 0.0 49                        | 5                      | OVERBURDEN.CL                                    | AY BLDRS LS                            |                            |
|                                                 | 49.5                          | 4 0                    | LS                                               |                                        |                            |
| Comments                                        | WELL PUMPED DRY DI            | DING TEST              |                                                  |                                        |                            |

| Reference Number                        | Driving directions to well                   | Mr. ski malen. Lis. Halla de per que per per      | an per mertir — an controller and   | Date completed       |  |  |
|-----------------------------------------|----------------------------------------------|---------------------------------------------------|-------------------------------------|----------------------|--|--|
| 217890                                  | SR158 5 MI S ON SR450                        |                                                   | Sat, Nov 25, 1967                   |                      |  |  |
| Owner-Contractor Well Owner             | <i>Name</i><br>JOHNSON                       | Address<br>312 Indiana ave, oolitig               | CIN                                 | Telephone            |  |  |
| Building Contractor Drilling Contractor | MUMMA DRLG INC                               | WASHINGTON & LYONS IN                             | I                                   |                      |  |  |
| Equipment Operator                      | DEAN K MUMMA                                 | License.                                          |                                     |                      |  |  |
| Construction Details                    |                                              |                                                   |                                     |                      |  |  |
| Well                                    | Use: HOME                                    | Drilling method: OTHER                            | Pump type:                          |                      |  |  |
|                                         | Depth: 186 0                                 | Pump setting depth:                               | Water quality                       |                      |  |  |
| Casing<br>Screen                        | Length:<br>Length:                           | Material:<br>Material:                            | Diameter: 6 6<br>Diameter: Slo      |                      |  |  |
| Well Capacity Test                      | Type of test:<br>Drawdown: ft                | Test rate: gpm for hrs<br>Static water level: 109 |                                     | nte: 5 5 gpm for hrs |  |  |
| Grouting Information                    | Material:<br>Installation Method:            |                                                   | Depth: from to Number of bags used: |                      |  |  |
| Well Abandonment                        | Sealing material:<br>Installation Method:    |                                                   | Depth: from to Number of bags used: |                      |  |  |
| Administrative                          | County: LAWRENCE Section: SE 1/4 of the SW 1 | /4 of the NE 1/4 of Section 21                    | Township: 5N Range.                 | Topo map: BEDFORD    |  |  |
|                                         | Field located by: JRD                        |                                                   | on: Wed, Aug 09, 197                | WEST<br>8            |  |  |
|                                         | Courthouse location by:                      |                                                   | on.                                 |                      |  |  |
|                                         | Location accepted w/o verif                  | ication by:                                       | on:                                 |                      |  |  |
|                                         | Subdivision name:                            | •                                                 | Lot number                          |                      |  |  |
|                                         | Ft W of EL: 1700                             | Ft N of SL:                                       | Ft E of WL:                         | Ft S of NL: 2100     |  |  |
|                                         | Ground elevation: 675 0                      | Depth to bedrock 360                              | Bedrock elevation<br>639 0          | Aquifier elevation   |  |  |
|                                         | UTM Easting: 541414 0                        |                                                   | UTM Northing 43005                  | 72 0                 |  |  |
| Well Log                                | Top Botto                                    | om Formation                                      |                                     |                      |  |  |
|                                         | 00 360                                       | CLVI                                              |                                     |                      |  |  |
|                                         | 36 0 58 0                                    | 1.1811                                            |                                     |                      |  |  |
|                                         | 58 0 63 0                                    | MUD & BREAF                                       | CS OF LIME                          |                      |  |  |
|                                         | 63 0 158                                     | 0 LIME                                            |                                     |                      |  |  |
|                                         | 158 0 180                                    | BREAKSOFII                                        | ME WATER                            |                      |  |  |
|                                         | 180 0 186                                    | ) 11Mr                                            |                                     |                      |  |  |
| Comments                                | MC 639 OWNER VERIFIE                         | D 40 N OF HOUSE TO THE TR                         | ON 20 GRAMS HARDNES.                |                      |  |  |

| Reference Number                        | Driving directions                               | to well   | the terminal contribution and the state of the second seco | •                          | Date completed        |  |  |
|-----------------------------------------|--------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|--|--|
| 219643                                  | NEAREST TOWN                                     | MITCHELL  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fn, Apr 19, 1957           |                       |  |  |
| Owner-Contractor Well Owner             | <i>Name</i><br>HOWARD WOOD!                      |           | Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            | Telephone             |  |  |
| Building Contractor Drilling Contractor | HOMER ALFORD                                     |           | RR #3 MITCHELL IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                       |  |  |
| Equipment Operator                      |                                                  |           | License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                       |  |  |
| Construction Details                    |                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                       |  |  |
| Well                                    | Use: HOME                                        |           | Drilling method: CABLE TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OL Pump type:              |                       |  |  |
|                                         | Depth: 125 0                                     |           | Pump setting depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water quali                | =                     |  |  |
| Casing<br>Screen                        | Length: 22 0<br>Length:                          |           | Material:<br>Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Diameter: 6<br>Diameter: S |                       |  |  |
| Well Capacity Test                      | Capacity Test Type of test: Test rate: gpm for } |           | Test rate: gpm for hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BailTest                   | rate: 3 0 gpm for hrs |  |  |
|                                         | Drawdown: ft                                     |           | Static water level: ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                       |  |  |
| Grouting Information                    | Material:                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Depth: from to             |                       |  |  |
|                                         | Installation Method                              | <b>':</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used:       |                       |  |  |
| Well Abandonment                        | Sealing material:                                |           | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Depth: from to             |                       |  |  |
|                                         | Installation Method                              | <i>:</i>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of bags used:       |                       |  |  |
| Administrative                          | County: LAWRENC                                  | Œ         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Township: 4N Rang          | e: 1W                 |  |  |
|                                         | Section: 1/4 of the 1/4 of the 1                 |           | of Section 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            | Topo map: MITCHELL    |  |  |
|                                         | Field located by:                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                        |                       |  |  |
|                                         | Courthouse location                              | by:       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                        |                       |  |  |
|                                         | Location accepted w/o verification by:           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on:                        |                       |  |  |
|                                         | Subdivision name:                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lot number:                |                       |  |  |
|                                         | Ft W of EL:                                      |           | Ft N of SL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ft E of WL:                | Ft S of NL:           |  |  |
|                                         | Ground elevation:                                |           | Depth to bedrock:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bedrock elevation:         | Aquifier elevation:   |  |  |
|                                         | UTM Easting                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTM Northing:              |                       |  |  |
| Well Log                                | Тор                                              | Bottom    | Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                       |  |  |
|                                         | 0 0                                              | 18 0      | OVRBRN CLA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Y BI DRS BRKN LS           |                       |  |  |
|                                         | 18 0                                             | 22 0      | SOLID ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                       |  |  |
|                                         | 22 0                                             | 125 0     | LS*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                       |  |  |
|                                         | 125 0                                            | 0 0       | SOAPSTONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                       |  |  |
| Comments                                | WELL HAD RESER                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                       |  |  |

| 219648  Owner-Contractor Well Owner Building Contractor | BEDFORD                     |              |                                                  |                      | Sat, Jul 07, 1951           |
|---------------------------------------------------------|-----------------------------|--------------|--------------------------------------------------|----------------------|-----------------------------|
| Well Owner                                              |                             |              |                                                  |                      | out, 501 07, 1551           |
|                                                         | <i>Name</i><br>HARLEY CLARK |              | ddress<br>LD HWY 37                              |                      | Telephone                   |
| Drilling Contractor                                     | HOMER ALFORD                | R            | #3 MITCHELL '                                    |                      |                             |
| Equipment Operator                                      |                             | Li           | cense·                                           |                      |                             |
| Construction Details                                    |                             |              |                                                  |                      |                             |
| Well                                                    | Use: HOME                   |              | rilling method: CABLE TOC                        |                      |                             |
|                                                         | Depth: 108.0                |              | imp setting depth:                               | Water qu             | •                           |
| Casing<br>Screen                                        | Length:<br>Length:          |              | aterial:<br>aterial:                             | Diamete<br>Diamete   | r: 5.63<br>r: Slot size:    |
| Well Capacity Test                                      | Type of test: Drawdown: ft. |              | Test rate: gpm for hrs. Static water level: 42.0 |                      | est rate: 0 25 gpm for hrs. |
| Grouting Information                                    | Material:                   |              |                                                  | Depth: from to       |                             |
|                                                         | Installation Method:        |              |                                                  | Number of bags used: |                             |
| Well Abandonment                                        | Sealing material:           |              |                                                  | Depth: from to       |                             |
|                                                         | Installation Method:        |              |                                                  | Number of bags used: |                             |
| Administrative                                          | County: LAWRENCE            |              |                                                  | Township: 4N Ri      | =                           |
|                                                         | Section: 1/4 of the 1/4     | of the 1/4 o | f Section 3                                      |                      | Topo map: BEDFORD WEST      |
|                                                         | Field located by:           |              |                                                  | on:                  |                             |
|                                                         | Courthouse location by      | y:           |                                                  | on:                  |                             |
|                                                         | Location accepted w/o       | verification | by:                                              | on:                  |                             |
|                                                         | Subdivision name:           |              |                                                  | Lot number:          |                             |
|                                                         | Ft W of EL:                 |              | Ft N of SL:                                      | Ft E of WL:          | Ft S of NL:                 |
|                                                         | Ground elevation:           |              | Depth to bedrock:                                | Bedrock elevation    | n: Aquifier elevation:      |
|                                                         | UTM Easting:                |              |                                                  | UTM Northing:        |                             |
| Well Log                                                | Тор                         | Bottom       | Formation                                        |                      |                             |
|                                                         | 0.0                         | 5.0          | OVRBRDN CL.                                      | AY ROCKS BRKN LS     |                             |
|                                                         | 5 0                         | 103.0        | LS*                                              |                      |                             |

| Reference Number 219653                         | Driving directions i                         | o well        | 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2. |                                     | Date completed         |  |  |
|-------------------------------------------------|----------------------------------------------|---------------|------------------------------------------|-------------------------------------|------------------------|--|--|
| 21,000                                          |                                              |               |                                          |                                     | Sat, Jul 07, 1951      |  |  |
| Owner-Contractor Well Owner Building Contractor | <i>Name</i><br>HARLEY CLARK                  |               | Address<br>NEW SR 37                     |                                     | Telephone              |  |  |
| Drilling Contractor                             | HOMER ALFORD                                 | Ş             | R #3 MITCHELL                            |                                     |                        |  |  |
| Equipment Operator                              |                                              | I             | License:                                 |                                     |                        |  |  |
| Construction Details                            |                                              |               |                                          |                                     |                        |  |  |
| Well                                            | Use: HOME                                    | 1             | Orilling method: CABLE TOOL              | . Pump type:                        |                        |  |  |
|                                                 | Depth: 131.0                                 |               | Pump setting depth:                      | Water qual                          | •                      |  |  |
| Casing<br>Screen                                | Length: 21.0<br>Length:                      |               | Aaterial:<br>Aaterial:                   | Diameter: S<br>Diameter: S          |                        |  |  |
| Well Capacity Test                              | Type of test:                                |               | Test rate: gpm for hrs.                  | BailTest                            | rate: 0 5 gpm for hrs. |  |  |
|                                                 | Drawdown: ft.                                |               | Static water level: 61.0 f               | <b>t</b> .                          |                        |  |  |
| Grouting Information                            | Material:                                    |               |                                          | Depth: from to                      |                        |  |  |
|                                                 | Installation Method                          | ;             |                                          | Number of bags used:                |                        |  |  |
| Well Abandonment                                | nt Sealing material:<br>Installation Method: |               |                                          | Depth: from to Number of bags used: |                        |  |  |
| Adminístrative                                  | County: LAWRENC                              | E             |                                          | Township: 4N Rang                   | ge: 1W                 |  |  |
|                                                 | Section: 1/4 of the 1/                       | 4 of the 1/4  | of Section 3                             |                                     | Topo map: BEDFORD WEST |  |  |
|                                                 | Field located by:                            |               |                                          | on:                                 |                        |  |  |
|                                                 | Courthouse location                          | by:           |                                          | on:                                 |                        |  |  |
|                                                 | Location accepted w                          | o verificatio | n by:                                    | on:                                 |                        |  |  |
|                                                 | Subdivision name:                            |               |                                          | Lot number:                         |                        |  |  |
|                                                 | Ft W of EL:                                  |               | Ft N of SL:                              | Ft E of WL:                         | Ft S of NL:            |  |  |
|                                                 | Ground elevation:                            |               | Depth to bedrock:                        | Bedrock elevation:                  | Aquifier elevation.    |  |  |
|                                                 | UTM Easting:                                 |               |                                          | UTM Northing:                       |                        |  |  |
| Vell Log                                        | Тор                                          | Bottom        | Formation                                |                                     |                        |  |  |
|                                                 | 0 0                                          | 170           | OVRBRDN CLA                              | Y ROCKS BRKN LS                     |                        |  |  |
|                                                 | 17 0                                         | 210           | SOLID ROCK                               |                                     |                        |  |  |
|                                                 | 21 0                                         | 1310          | LS*                                      |                                     |                        |  |  |
| Comments                                        | A DODON LOC III CI                           |               | GAL RESERVE CAPPage 9702                 |                                     |                        |  |  |

| Reference Number 219658                         | Driving directions            | to well       |                         |                                 |                        | Date completed             |
|-------------------------------------------------|-------------------------------|---------------|-------------------------|---------------------------------|------------------------|----------------------------|
| 219058                                          |                               |               |                         |                                 |                        | Mon, Sep 08, 1952          |
| Owner-Contractor Well Owner Building Contractor | Name<br>OTHA SMITH            |               | Address<br>RR #2 MITCHE | LL ST RD 37 & 50                | ) S                    | Telephone                  |
| Drilling Contractor                             | HOMER ALFORD                  |               |                         |                                 |                        |                            |
| Equipment Operator                              |                               |               | License.                |                                 |                        |                            |
| Construction Details                            |                               |               |                         |                                 |                        |                            |
| Well                                            | Use: HOME                     |               | Drilling method:        |                                 | Pump type              | <i>:</i>                   |
|                                                 | Depth: 293 0                  |               | Pump setting dep        | oth:                            | Water qua              | •                          |
| Casing<br>Screen                                | Length: 23 0<br>Length:       |               | Material:<br>Material:  |                                 | Diameter:<br>Diameter: |                            |
| Well Capacity Test                              | Type of test:<br>Drawdown: ft |               |                         | gpm for hrs ter level: 62 0 ft. | BailTes                | trate· 1 0 gpm for 0 5 hrs |
| Grouting Information                            | Material:                     |               |                         | Dep                             | th: from to            |                            |
|                                                 | Installation Method           | <b>!</b> :    |                         | Nun                             | nber of bags used.     |                            |
| Well Abandonment                                | Sealing material:             |               |                         | Dep                             | th: from to            |                            |
|                                                 | Installation Method           | !:            |                         | Nun                             | nber of bags used:     |                            |
| Administrative                                  | County. LAWRENC               |               |                         |                                 | Township: 4N Rang      | ge: 1W                     |
|                                                 | Section: 1/4 of the 1.        | /4 of the NE  | E 1/4 of Section 3      |                                 |                        | Topo map: BEDFORD WEST     |
|                                                 | Field located by:             |               |                         |                                 | on:                    |                            |
|                                                 | Courthouse location           | by:           |                         |                                 | on:                    |                            |
|                                                 | Location accepted w           | /o verificati | ion by:                 |                                 | on.                    |                            |
|                                                 | Subdivision name:             |               |                         |                                 | Lot number             |                            |
|                                                 | Ft W of EL:                   |               | Ft N of SL:             |                                 | Ft E of WL.            | Ft S of NL.                |
|                                                 | Ground elevation:             |               | Depth to bedi           | rock:                           | Bedrock elevation      | Aquifier elevation         |
|                                                 | UTM Easting:                  |               |                         |                                 | UTM Northing           |                            |
| Vell Log                                        | Тор                           | Bottom        | Fe                      | rmation                         |                        |                            |
|                                                 | 0 0                           | 23 0          | 0'                      | VRBRDN CLAY E                   | BLDRS BRKN LS          |                            |
|                                                 | 23 0                          | 293 0         | LS                      | 3                               |                        |                            |
|                                                 |                               |               |                         |                                 |                        |                            |

#### DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209 MElrose 3-6757

#### WATER WELL RECORD

| INFORMATION ON WELL LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| County in which well was drilled: fausince Civil Township:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Congressional township: 5 N Range: 10 Number of section: 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (Fill in as completely as possible)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Describe in your own words the well location with respect to nearby towns, roads, streets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| or distinctive landmarks: Scotored                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| TRAL IT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| NO M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Name of Well Drilling Contractor:  Name of Prilling Four points of the Well location with respect to nearby towns, roads, streets or distinctive landmarks:  State of the Stat |
| Name of Well Drilling Contractor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| *ddress:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Name of Drilling Equipment Operator:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| INFORMATION ON THE WELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Completed depth of well: 130 ft. Date well was completed: 11-53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Diameter of outside casing or drive pipe: 6 Length: 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Diameter of inside casing or liner: Length:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Diameter of Screen:Length:Slot size:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Type of Well: Drilled  Gravel Pack Driven Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Use of Well: For home  For industry  For public supply  Stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Method of Drilling: Cable Tools C Rotary Rev. Rotary Jet C Driven C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Static water level in completed well (Distance from ground to water level)ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Bailer Test: Hours tested Rateg.p.m. Drawdown f . (Difference between                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Bailer Test: Hours tested Rate g.p.m. Drawdown f. (Difference between static level and water Pumping Test: Hours tested Rate g.p.m. Drawdown ft. level at end of test)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Signature Roberts  Date USGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

# INSTRUCTIONS

an accurate well well location space provided as accurate as possible This Water Well Record form is designed to record the the Acts completion of information possible An accurate location of the well As specified in Chapter it may be of great Please include all within thirty days water well.

Machine , Foren

is withhault of super battleits.

# DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET INDIANAPOLIS, INDIANA

Reference 10 (478FR31233

#### WATER WELL RECORD

| INFORMATION ON WELL LOCATION                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| County in which well was drilled: Xacrenec Civil Township: Civil Township:                                                                                                                          |
| Congressional township: 5 N. Range: 1 W Number of section: 3                                                                                                                                        |
| Congressional township: 5 N. Range: 1 W Number of section: 3  (Fill in as completely as possible) 207 30  Describe in your own words the well location with respect to nearby towns, roads, streets |
| or distinctive landmarks: Fast Oction - Mile Past of Collice                                                                                                                                        |
| or distinctive landmarks: Collective   Mile Collective                                                                                                                                              |
|                                                                                                                                                                                                     |
|                                                                                                                                                                                                     |
| /                                                                                                                                                                                                   |
| Name of owner: Wilmer Hulbrid Address: Bellind 2nd: RR2                                                                                                                                             |
| Name of Well Drilling Contractor: FRII'S UNITHIR'S Y SONS                                                                                                                                           |
| Address: BECIEOR & INd. PRG                                                                                                                                                                         |
| Name of Drilling Equipment Operator: Facy ENEX Charles UNIPARCS:                                                                                                                                    |
| INFORMATION ON THE WELL                                                                                                                                                                             |
| Completed depth of well: 100 ft. Date well was completed: 7/56/62                                                                                                                                   |
| Diameter of outside casing or drive pipe: 6 Length: 20'6"                                                                                                                                           |
| Diameter of outside casing or drive pipe:                                                                                                                                                           |
| Diameter of inside casing or liner: Length:                                                                                                                                                         |
| Diameter of Screen:Length:Slot size:                                                                                                                                                                |
| Type of Well: Drilled Gravel Pack Driven Other                                                                                                                                                      |
| Use of Well: For home 🗗 For industry 🗌 For public supply 🔘 Stock 🗍                                                                                                                                  |
| Method of Drilling: Cable Tools @ Rotary  Rev. Rotary  Jet  Driven                                                                                                                                  |
| Static water level in completed well (Distance from ground to water level) 40 ft.                                                                                                                   |
| Bailer Test: Hours tested Rate 3 g.p.m. Drawdown 60 ft. (Difference between                                                                                                                         |
| static level and water  Pumping Test: Hours testedRateg.p.m. Drawdownft. level at end of test)                                                                                                      |
|                                                                                                                                                                                                     |
| Signature Surveye U. s. Lifues 2                                                                                                                                                                    |
| Date                                                                                                                                                                                                |
| FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET                                                                                                                                                   |

| WATER WELL LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------------------------------------|
| FORMATIONS (Color, type of material, hardness, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | From | То   | COUNTY: Topo. Map: Topo of grn El. of grn Depth to b Well Log p                                                 |
| DIRT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0    | 5-1  | Map:  f grnd.  to bedi  Log prod                                                                                |
| Blue LinesTone - Hard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5    | /3   | edr.                                                                                                            |
| OPEN HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13   | 14   | Surface ock:                                                                                                    |
| Blue LimesTONE - Hard  GRay 11 - SORT  Blue Shale - SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14   | 23   | tic<br>by:                                                                                                      |
| GRav 11 - SORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 23   | 5)   | ] & \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\                                                                         |
| Blue Shale - SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 51   | 62   | ##: P/                                                                                                          |
| Blue Limestone - SOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 62   | 79   | 350                                                                                                             |
| Blue Shale - SORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 79   | 1050 | 50 (We                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      | TWP.                                                                                                            |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      | out)                                                                                                            |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      | filea filea                                                                                                     |
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| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |      | WW; on Yes_ Date Date le Date                                                                                   |
| REMARKS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      |                                                                                                                 |
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| TNSTRUCTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |                                                                                                                 |

#### INSTRUCTIONS

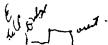
This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana.

### DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 609 STATE OFFICE BUILDING INDIANAPOLIS 9, INDIANA

WATER WELL RECORD



| ho & Journal                         | INFORMATION ON                      | WELL LOCATION    | <u>ON</u>                                                                                                       | SESTICIE                          |
|--------------------------------------|-------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------|
| County in which well was drill       |                                     |                  | Township:                                                                                                       | naws wick                         |
| Congressional township:              | 207 - 704<br>Rang                   | //<br>e:         | Number o                                                                                                        | f section:                        |
| (F<br>Describe in your own words the | ill in as complete well location wi |                  |                                                                                                                 | roads, streets                    |
| or distinctive landmarks:            | PP ONE                              | Mile             | N'ORTH                                                                                                          | OF                                |
| BedFORd, TNd.                        | ONE BLOC                            | K wesT           | OF P                                                                                                            | C <b>E</b> RLess                  |
| Road KNOWN as                        |                                     |                  |                                                                                                                 |                                   |
| ,                                    |                                     | _ •              |                                                                                                                 |                                   |
| Name of owner: Pakk AS               | Childers                            | Address:         | Be                                                                                                              | dFORD TNO.                        |
| Name of Well Drilling Contract       |                                     |                  |                                                                                                                 |                                   |
| Address: Bed Ford 1                  |                                     |                  |                                                                                                                 |                                   |
| Name of Drilling Equipment Ope       | •                                   | e + Charle       | s UMF                                                                                                           | BRess                             |
|                                      |                                     | ON THE WELL      |                                                                                                                 | •                                 |
| Completed depth of well: 20          | ft. Date wel                        | l was completed  | :                                                                                                               | 30/62                             |
| Diameter of outside casing or        | lrive pipe:                         | 6"               | Length: 91m                                                                                                     | Known                             |
| Diameter of inside casing or li      | ner:                                | 5.3/8"           | Length: Link                                                                                                    | hed Legar                         |
| Diameter of Screen:                  |                                     |                  |                                                                                                                 | / -                               |
| Type of Well: Drilled Gr             | avel Pack                           | Driven 🗌         | Other                                                                                                           | · :                               |
| Use of Well: For home 🗹 Fo           | r industry                          | For public su    |                                                                                                                 |                                   |
| Method of Drilling: Cable Too        | ls 🛭 Rotary 🗍                       | Rev. Rotary      | Jet 🗌                                                                                                           | Driven 🗌                          |
| Static water level in completed      | well (Distance for                  | rom ground to wa | ater level)                                                                                                     | /3.5 ft.                          |
| Bailer Test: Hours tested            | _Rate_3_g.p.                        | Drawdown 6       | ft. (Differ                                                                                                     | rence between                     |
| Pumping Test: Hours tested           | _Rateg.p.m.                         | Drawdown         | station | e level and water at end of test) |
|                                      |                                     |                  |                                                                                                                 |                                   |
|                                      | . Signat                            | ure Juges        | e Worth                                                                                                         | les                               |
|                                      |                                     |                  | 1. /- /                                                                                                         | 1-                                |

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

# INSTRUCTIONS

data concerning this information This Water Well Record form is designed to record the most essential planning and development equally as important An accurate location of the Well

the Division of Water Resources, Indiana report must be submitted space provided for well location. ๗ information possible in the completion of As specified in Chapter days after the Please include all within thirty

Department of Conservation.

#### DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET

INDIANAPOLIS, INDIANA

#### WATER WELL RECORD

| _           | 16    | 91,   | _           | ָלָכ <i>ו</i> וי |
|-------------|-------|-------|-------------|------------------|
|             | (D)   |       |             |                  |
| by /        | 12    | 1960  | CEIVED      | Artion of        |
| <b>()</b> / | ANTI- | AUG 1 | A<br>P<br>P | Derbion of       |
|             | 18    | ¥     | IN B        | さら               |
|             | 165   | _     | •           |                  |

INFORMATION ON WELL LOCATION County in which well was drilled: Latifuncl Civil Township: Shawlo  $\underline{\hspace{1cm}}$  Number of section:  $\underline{\mathcal{L}}$ Congressional township:\_ \_\_ Range: \_\_\_ (Fill in as completely as possible) Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: MA Name of owner: Address: Blatard RRY Name of Well Drilling Contractor: Name of Drilling Equipment Operator:\_ INFORMATION ON THE WELL Completed depth of well: 140 ft. Date well was completed: 7 21 60 Diameter of Screen: Length: \_\_\_\_\_Slot size:\_\_ Type of Well: Drilled & Gravel Pack Driven Other\_\_\_\_ Use of Well: For home For industry For public supply Stock | Method of Drilling: Cable Tools X Rotary Rev. Rotary Jet Driven Static water level in completed well (Distance from ground to water level)\_\_\_\_\_ft. Bailer Test: Hours tested \_\_\_\_ Rate fally p.m. Drawdown \_\_\_ ft. (Difference between static level and water Pumping Test: Hours tested \_\_\_\_\_ Rate\_\_\_\_g.p.m. Drawdown \_\_\_\_\_ft. level at end of test)

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

#### INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as 't may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana.

DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET INDIANAPOLIS, INDIANA

-

### WATER WELL RECORD

INFORMATION ON WELL LOCATION

| INTORNATION ON WHEEL POCKTION                                                                             |
|-----------------------------------------------------------------------------------------------------------|
| County in which well was drilled: favenue Civil Township: Maurence                                        |
| Congressional township: Range: Number of section: Number of section:                                      |
| Describe in your own words the well location with respect to nearby towns, roads, streets                 |
| or distinctive landmarks: Luc miles morth Bedford -bod. Brecherung                                        |
| road near D'ine School House.                                                                             |
| Baki's Hiland Blk. D. Int 1                                                                               |
| north MIK                                                                                                 |
| Name of owner: Mrusal Effices Address: BR4, Beford And                                                    |
| Name of Well Drilling Contractor: Anni Complexes & Som                                                    |
| Address: ARL Box 13 Bedford Ind                                                                           |
| Name of Drilling Equipment Operator: Ermin Onnifhum Thom                                                  |
| Non 107 Brilled 41 froming INFORMATION ON THE WELL                                                        |
| Completed depth of well: 150 ft. Date well was completed: Jan 2 6 1960                                    |
| Diameter of outside casing or drive pipe: Length: not have                                                |
| Diameter of inside casing or liner:                                                                       |
| Diameter of Screen:                                                                                       |
| Type of Well: Drilled  Gravel Pack  Driven  Other                                                         |
| Use of Well: For home ⊗ For industry □ For public supply □ Stock □                                        |
| Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐                                   |
| Static water level in completed well (Distance from ground to water level) 50 ft.                         |
| Bailer Test: Hours tested Rate _3 g.p.m. Drawdownft. (Difference between                                  |
| static level and water Pumping Test: Hours tested Acre Rate g.p.m. Drawdown 100 ft. level at end of test) |
|                                                                                                           |
| Signature Day To Accepting to an                                                                          |

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

| WATER WELL LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | · · · · · · · · · · · · · · · · · · · |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| FORMATIONS (Color, type of material, hardness, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | From                                  | То  | COUNTY: Topo. Map: El. of grn Depth to b Well Log p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Shile Simistan Hard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 109                                   | 150 | od odd by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| REMARKS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |     | ع الله الله الله الله الله الله الله الل                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| - The state of the |                                       |     | SEC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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#### INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana.

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

WATER WELL RECORD



| INFORMATION ON WELL LOCATION                                                                             |
|----------------------------------------------------------------------------------------------------------|
| County in which well was drilled: L-AWRENCE Civil Township: SHAWSWick                                    |
| Congressional township: Range: / WEST Number of section: / (Fill in as completely as possible)           |
| Describe in your own words the well location with respect to nearby towns, roads, streets                |
| or distinctive landmarks: / mile north of Ind. H-way 58 on mit.                                          |
| or distinctive landmarks: / mile north of Incl. H. Way 58 on Int. Plesent Road R.R.Y. Belfred Incleasing |
|                                                                                                          |
|                                                                                                          |
| Name of Well Drilling Contractor: FRN ie Un Philes 5 V Sons                                              |
| Name of Well Drilling Contractor: FRN 18 41 Phress V Sons                                                |
| Address: BedFoRd, INd. RR6                                                                               |
| Name of Drilling Equipment Operator: Fug. et Charles UmPhress                                            |
| INFORMATION ON THE WELL                                                                                  |
| Completed depth of well: 250 ft. Date well was completed: 9 /10/63                                       |
| Diameter of outside casing or drive pipe: 6 Length: 23'                                                  |
| Diameter of inside casing or liner: 535" Length: 23                                                      |
| Diameter of Screen: Length: Slot size:                                                                   |
| Type of Well: Drilled Gravel Pack Driven Other                                                           |
| Use of Well: For home For industry — For public supply Stock                                             |
| Method of Drilling: Cable Tools C Rotary Rev. Rotary Jet Driven                                          |
| Static water level in completed well (Distance from ground to water level) /70 ft.                       |
| Bailer Test: Hours tested Rate 5 g.p. Drawdown 80 ft. (Difference between                                |
| Static level and water Pumping Test: Hours tested Rate g.p.m. Drawdown ft. level at end of test)         |
|                                                                                                          |
| Signature Surgere Weinfelson                                                                             |
| Pata 2 9 / 12 / 12                                                                                       |

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

| WATER WELL LOG                                       | ·    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FORMATIONS (Color, type of material, hardness, etc.) | From | То  | COUNTY: Topo Map: Well log class Courthouse loc Field located Acc. w/o verif                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DIRT                                                 | 0    | 4'  | Map:<br>Map:<br>log<br>hous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BROKEN LinesTONE                                     | 4    | 17  | classified se located cated verification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Blue 1' - Hard  Gray '' - Hard  Blue Shale - SOFT    | 17   | 39  | sificate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Blue ' - Hard  GRay '' - Hard  Blue Shale - SOFT     | 39   | 55  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Blue Shake - SOFT                                    | 55   | 250 | B B By L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| -                                                    |      |     | TWP  TWP  Tup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                      |      |     | OR AUMIN<br>1 drille<br>S-S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                      |      |     | AUMINIST  driller d  S-92 RGE  (1)  (2)  (2)  (3)  (4)  (5)  (6)  (6)  (7)  (7)  (7)  (8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                      |      |     | TRAF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| •                                                    |      |     | Well driller does not fill ou  TWP. 5-52 RGE / EU  TWP. 5-52 RGE / EU  Date 10/63  Date 20/63  Date 20/63  Date 20/63  Date 20/63  Date 20/63  Date 20/63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                                      |      |     | t S of t N of t |
|                                                      |      |     | NI.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                      |      |     | Gro<br>Dep<br>Bed<br>Aqu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                      |      |     | Ground el<br>Depth to<br>Bedrock e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                      |      |     | d elevation to bedrock elevatient er elevati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| REMARKS:                                             |      |     | elevation<br>to bedrock<br>celevation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                                                      |      |     | 1   1   -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### INSTRUCTIONS

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-rlease include all information possible in the space provided for well location.

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#### DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 609 STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209 MElrose 3-6757



#### WATER WELL RECORD

#### INFORMATION ON WELL LOCATION

| INFORMATION ON WILLIAM MOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| County in which well was drilled: LauRende Civil Township: 5/2005 cond K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Congressional township: 5 A Range: Number of section: 5 (Fill in as completely as possible)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Describe in your own words the well location with respect to nearby towns, roads, streets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| or distinctive landmarks: APP. 3 MILES East OF Bed Ford, Ind                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DN 11.5. Highway # 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Name of owner: Noel Gene MiTchell Address: Belferd Indire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Name of Well Drilling Contractor: FRNie UMPhRess + Sons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Address: Bed FOR J. TNJ. RRG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Name of Drilling Equipment Operator: Eugenet Charles Lamphess                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| INFORMATION ON THE WELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Completed depth of well: 200 ft. Date well was completed: / 5/66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Diameter of outside casing or drive pipe: 6 Length: 21'C'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Diameter of inside casing or liner: 5-3/5" Length: 21'C"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Diameter of Screen:Length:Slot size:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Type of Well: Drilled  Gravel Pack  Driven  Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Use of Well: For home For industry   For public supply   Stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Method of Drilling: Cable Tools @ Rotary  Rev. Retary  Jet  Driven                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Static water level in completed well (Distance from ground to water level) 90 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Bailer Test: Hours tested Rate Rate Brawdown Rate |
| static level and water  Pumping Test: Hours testedRateg.p.m. Drawdownft. level at end of test)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Signature Sincura 21mhis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Signature Surper 2(mphisos  Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| POD WELL LOG SDACK USE REVERSE SIDE OF THIS SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| WATER WELL LOG                                       |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FORMATIONS (Color, type of material, hardness, etc.) | From | То   | COUNTY: Topo Map: Well log class Courthouse loc Field located Acc. w/o verif                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DIRT                                                 | 0    | 6    | Map: Map: log house                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Bunkders & Mud HoLes  GRay Limes Tune - Hurd         | 6    | 17   | classified classified se located verification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| GRay Limes Tune - Hurd                               | 17   | 37   | ificated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| BLue 11 - 11                                         | 37   | 61   | ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| BLue 11 - 11  9Ray 11 - SUIT                         | 61   | 82   | B B B Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Blue Shate - "  Blue Limes Time - "                  | 82   | 5-2- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| BLue Limes Time - "                                  | 85-  | 103  | THE STATE OF |
| Blue Shale - 1.                                      | 103  | 200  | FO] (Well TWP., Date Date Date Date Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \                |      |      | FOR ADMINISTRATIVE (Well driller does no TWP. NRGE / C C C C C C C C C C C C C C C C C C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| • .                                                  |      |      | RGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                                      |      |      | : ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                      |      |      | EL. SI. NI.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                      |      |      | Ground e<br>Ground e<br>Depth to<br>Bedrock<br>Aquifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                      |      |      | Ground e. Ground to Depth to Bedrock (Aquifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                      |      |      | elevation<br>o bedrock<br>elevatio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                      |      |      | levation<br>bedrock<br>elevation<br>elevation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| REMARKS:                                             |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

#### WATER WELL RECORD

INFORMATION ON WELL LOCATION

| County in which well was drilled: Civil Township:                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------|
| Congressional township: 6 5 Range: 1 E Number of section: 8                                                                    |
| (Fill in as completely as possible)  Describe in your own words the well location with respect to nearby towns, roads, streets |
| or distinctive landmarks: Thrue miles seath- out of Bufferdow                                                                  |
| State road fifty light                                                                                                         |
|                                                                                                                                |
| at ond for new house; trille the now                                                                                           |
| Name of owner: Laurence Rose Address RRITT 3 Befferd Inf                                                                       |
| Name of Well Drilling Contractor: (1) Philes S & Sons                                                                          |
| Address: BedFord Vn'd, RR6                                                                                                     |
| Name of Drilling Equipment Operator: Fugene + Charles Um Phizes S                                                              |
| INFORMATION ON THE WELL                                                                                                        |
| Completed depth of well: 100 ft. Date well was completed: 11/27/62                                                             |
| Diameter of outside casing or drive pipe: 6" Length: 31'6"                                                                     |
| Diameter of inside casing or liner: 535' Length: 31'6''                                                                        |
| Diameter of Screen: Length: Slot size:                                                                                         |
| Type of Well: Drilled                                                                                                          |
| Use of Well: For home  For industry    -For public supply    Stock                                                             |
| Method of Drilling: Cable Tools @ Rotary C Rev. Rotary C Jet C Driven C                                                        |
| Static water level in completed well (Distance from ground to water level) 45 ft.                                              |
| Bailer Test: Hours tested Rate 36 g.p. Drawdown 55 ft. (Difference between                                                     |
| Pumping Test: Hours tested Rate g.p.m. Drawdown ft. level at end of test)                                                      |
| $\mathcal{Q}$                                                                                                                  |
| Signature Curture Horfdrean                                                                                                    |
| Pote /// /27 / 62                                                                                                              |

| <u></u>                                                                                                                                             | FOR ADMINISTRA (Well driller doe | es not fill out)      |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-------------------------------------------|
| COUNTY:                                                                                                                                             | TWP.                             | . J. NE & NE          | $= \frac{1}{2} N \omega_{1} \text{ SEC.}$ |
| COUNTY:  Topo Map:  Well log classified By Courthouse located By Field located By Acc. w/o verification By                                          | Date                             | Ft E of WLFt S of NL. | Bedrock elevation                         |
| 32.6                                                                                                                                                | , 22/                            |                       |                                           |
| From 322 4                                                                                                                                          | 72,                              |                       |                                           |
| FORMATIONS (Color, type of material, hardness, etc.)  ELue Linges Towe - Margh Mud Mose  Blue Linges Lowe - Margh  Blue Linges Lowe - Margh  School | Blue Shake - SciFT               |                       | REMARKS:                                  |

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within thirty days after the completion of a well to the Division of Water Resources, Indiana

Department of Conservation.

### - 3 4 h

### DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET INDIANAPOLIS, INDIANA







| INFORMATION ON WELL LOCATION                                                                      |
|---------------------------------------------------------------------------------------------------|
| County in which well was drilled: Jan Zimen Civil Township: The county in which well was drilled: |
| Congressional township: Range: Number of section:   (Fill in as completely as possible)           |
| Describe in your own words the well location with respect to nearby towns, roads, streets         |
|                                                                                                   |
| or distinctive landmarks: 1154theest of Becker to believe the                                     |
| yht. Research Pood & Planet Bear Prod.                                                            |
|                                                                                                   |
| ••                                                                                                |
| Name of owner: Land 100 100 Address: PR:3                                                         |
| Name of Well Drilling Contractor: Hay Study                                                       |
| Dalla la                                                         |
| Address: X2 Colfice of Man                                                                        |
| Name of Drilling Equipment Operator: Floyd. Steelt                                                |
|                                                                                                   |
| INFORMATION ON THE WELL                                                                           |
| Completed depth of well: 125 ft. Date well was completed:                                         |
| Diameter of outside casing or drive pipe: Length:                                                 |
| Diameter of inside casing or liner: 5 Length: 19-7-                                               |
| Diameter of Screen:Length:Slot size:                                                              |
| Type of Well: Drilled                                                                             |
| Use of Well: For home For industry For public supply Stock D                                      |
| Method of Drilling: Cable Tools 2 Rotary Rev. Rotary Jet Driven Driven                            |
| Static water level in completed well (Distance from ground to water level) 30 ft.                 |
| Bailer Test: Hours tested 8 Rate 16 g.p.m. Drawdownft. (Difference between static level and water |
| Pumping Test: Hours tested Rate g.p.m. Drawdown ft. level at end of test)                         |
| 71.1 st 1+                                                                                        |

|                                                     |      |                      |      |          |    | FOR (Well | ADMINIS<br>Oriller | STRATIV<br>does | E USE | ONLY   | է)    | 57 . , | * N1- +                   | ionth:   | دسنا        |
|-----------------------------------------------------|------|----------------------|------|----------|----|-----------|--------------------|-----------------|-------|--------|-------|--------|---------------------------|----------|-------------|
| COUNT                                               | Y:   | LA.                  | W. F | <u> </u> |    | TW        | P.5 /Y             | _ RGE.          |       | 1E_    | SE    | 5.     | + 41 +                    | SEC.     | 4           |
| ľopo.                                               | Map. | 3 4 8                | 710  | - 1:     | ¥1 | <u> </u>  | 75                 | Loc.            | accep | ted w/ | o ver | ificat | ion Yes.                  | No       | <del></del> |
|                                                     |      |                      |      |          |    |           |                    |                 | •     |        |       |        | Date<br>Date<br>Tile Date |          |             |
| J.                                                  |      |                      |      |          |    |           |                    |                 |       |        |       |        |                           |          |             |
| From                                                |      |                      |      |          |    |           |                    |                 |       |        |       |        |                           |          |             |
| MANATIONS (Color, type of material, hardness, etc.) |      | 106 HT Mail Januelos |      |          |    |           |                    |                 |       |        |       |        |                           | REMARKS: |             |

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as to may be of great assistance in the planning and development of new water supplies.

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Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana.

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

#### WATER WELL RECORD



#### INFORMATION ON WELL LOCATION

| County in which well was drilled: Lance of Civil Township: SHA. Sunch                                   |
|---------------------------------------------------------------------------------------------------------|
| Congressional township: 5 Non'th Range: 1EAst Number of section: 7  (Fill in as completely as possible) |
| Describe in your own words the well location with respect to nearby towns, roads, streets               |
| or distinctive landmarks: APP. 3 MIKES EGST OF BELFORY, INC                                             |
| ION U.S. Highway No. 58 NORTH Side OF Road                                                              |
|                                                                                                         |
| - 4                                                                                                     |
| Name of owner: Rubert watson Address: Bedford, Ind.                                                     |
| Name of Well Drilling Contractor: FRNIE UMPhRess & Sons                                                 |
| Address: Bed FORd, INd. RRG                                                                             |
| Name of Drilling Equipment Operator: Eugenet Charles UMPhress                                           |
| INFORMATION ON THE WELL                                                                                 |
| Completed depth of well: 200 ft. Date well was completed: 8/26/63                                       |
| Diameter of outside casing or drive pipe: 6' Length: 12'                                                |
| Diameter of inside casing or liner: 5-3/8- Length: 13'                                                  |
| Diameter of Screen: Length: Slot size:                                                                  |
| Type of Well: Drilled  Gravel Pack  Driven  Other                                                       |
| Use of Well: For home  For industry  For public supply  Stock                                           |
| Method of Drilling: Cable Tools & Rotary Rev. Rctary Det Driven                                         |
| Static water level in completed well (Distance from ground to water level) #0 ft.                       |
| Bailer Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water           |
| Pumping Test: Hours tested Rate g.p.m. Drawdown ft. level at end of test)                               |
| Duciena Wimphress                                                                                       |
| Signature Mathet fretage                                                                                |
| Date 8/26/65                                                                                            |
| FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET                                                       |

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as acc.rate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

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a well to the Division of Water Resources, Indiana within thirty days after the completion of Department of Conservation.

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

WATER WELL RECORD



#### INFORMATION ON WELL LOCATION

| County in which well was drilled: LAWREARCE Civil Township: 5/7/16/2005                                                        |
|--------------------------------------------------------------------------------------------------------------------------------|
| Congressional township: Range: Range: Number of section: /                                                                     |
| (Fill in as completely as possible)  Describe in your own words the well location with respect to nearby towns, roads, streets |
| or distinctive landmarks: 3 MILES ERET OF BEDFORT ON STHIE KOHD #58                                                            |
|                                                                                                                                |
|                                                                                                                                |
| <del>4.</del>                                                                                                                  |
|                                                                                                                                |
| Name of owner: FIERRY NEHI Address: 1321 576 STRLEY, BENFORE                                                                   |
| Name of Well Drilling Contractor: EPNIC WITHRESSY SONS                                                                         |
| Address: Bedjord ford RR6                                                                                                      |
| Name of Drilling Equipment Operator: Fugenet Charles UMPhress                                                                  |
| Name of brilling Equipment Operator:                                                                                           |
| INFORMATION ON THE WELL                                                                                                        |
| Completed depth of well: 200 ft. Date well was completed: 7 / 17/63                                                            |
| Diameter of outside casing or drive pipe: 6' Length: 16'                                                                       |
| Diameter of outside casing or drive pipe: 6 Length: /6  Diameter of inside casing or liner: 55 Length: 16                      |
| Diameter of Screen:Length:Slot size:                                                                                           |
| Type of Well: Drilled Gravel Pack Driven Other                                                                                 |
| Use of Well: For home For industry  For public supply  Stock                                                                   |
| Method of Drilling: Cable Tools Rotary Rev. Rotary Jet Driven                                                                  |
| Static water level in completed well (Distance from ground to water level) 50 ft.                                              |
| Bailer Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between                                                         |
| Static level and water Pumping Test: Hours testedRateg.p.m. Drawdownft. level at end of test)                                  |
|                                                                                                                                |
| Signature Justers Unphress                                                                                                     |
| Date                                                                                                                           |

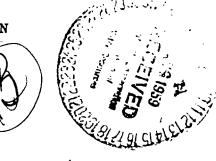
is designed to record the most essential data concerning be as accurate as possible in recording this information accurate well log. development of new water supplies. is equally as important 3rid the planning the well form <u>.</u> location of This Water Well t may be of great water well.

a well to the Division of Water Resources, Indiana a copy of this report must be submitted location. for well space provided of 1959, Please include all information possible in the As specified in Chapter 6 of the Acts completion of within thirty days after the An accurate

Department of Conservation.

### DIVISION OF WATER RESCURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET INDIANAPOLIS, INDIANA

#### WATER WELL RECORD



| ) ) •                           | INFORMATION ON V         | VELL LOCATION           | 1.                                      |
|---------------------------------|--------------------------|-------------------------|-----------------------------------------|
| County in which well was dril   | led: ~((), Line          | Civil Township:         | thandurch                               |
| Congressional township:         | Range:                   | 1 Fart Number           | of section:                             |
| Describe in your own words th   | e well location with     | respect to nearby towns | · · · · · · · · · · · · · · · · · · ·   |
| or distinctive landmarks:       | rentell me               | in State Held's         | a doct if                               |
| Bed ford about                  | + 13 Willes              | East of Elig-           | Limite                                  |
| . Bid Barllelow                 | llesont.                 |                         |                                         |
| - 4 1                           |                          |                         | ·                                       |
| Name of owner: Helling          | jiu, il &                | Address: 11/17          | in April I                              |
| Name of Well Drilling Contract  | •                        |                         | 2                                       |
| Address: 1 P. Co-L.             | " Medford !              | and a                   |                                         |
| Name of Drilling Equipment Ope  | 20° 2                    |                         |                                         |
|                                 | INFORMATION              | ON THE WELL             |                                         |
| Completed depth of well: //     | ft. Date well            | was completed:          | 14 1959                                 |
| Diameter of outside casing or   | drive pipe: غربت         | Length:                 | Lt 16 in                                |
| Diameter of inside casing or 1  | iner:                    | Length:                 |                                         |
| Diameter of Screen:             | Length:                  | Slot size:              |                                         |
| Type of Well: Drilled 🖾 G       | ravel Pack               | Oriven Other            | <u> </u>                                |
| Use of Well: For home 🗵 For     | or industry 🔲 🛚          | For public supply       | Stock 🖄                                 |
| Method of Drilling: Cable Too   | ols 🛭 Rotary 🗍 Re        | ev. Rotary 🗍 💮 Jet 🕻    | Driven 🗍                                |
| Static water level in completed | l well (Distance from    | ground to water level)  | 461- st.                                |
| Bailer Test: Hours tested       | _Rate_ <u>\$4</u> _g.p.# |                         |                                         |
| Pumping Test: Hours tested      | Rateg.p.m.               | Drawdownft. lev         | tic level and water rel at end of test) |

Date field // //

Signature France ambhin & Bons

| COUNTY:                                                                | (Well DrillerTWP/\ldots | Loc. accepted w/o veri | fication Yes No |
|------------------------------------------------------------------------|-------------------------|------------------------|-----------------|
| Well Log processed by: 130m                                            |                         | Placed in Master Well  | Log File Date   |
| FORMATIONS (Color, type of material, hardness, etc.)  Has Aullian Frag |                         |                        | REMARKS:        |

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#### DIVISION OF WATER RESOURCES INDIANA DEFARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET

J. 100,

INDIANAPOLIS, INDIANA

#### WATER WELL RECORD

INFORMATION ON WELL LOCATION

| County in which well was drilled: now rene Civil Township: Shovycvvic                                                          | 15          |
|--------------------------------------------------------------------------------------------------------------------------------|-------------|
| Congressional township: Now the Range: (cono) Number of section: /8                                                            |             |
| (Fill in as completely as possible)  Describe in your own words the well location with respect to nearby towns, roads, streets |             |
| or distinctive landmarks: Southerd quarter of Section 18 Lower                                                                 | elle        |
| 3 north, frang 1 cet the northwest c                                                                                           | مدم         |
| of Said qualter section, South of Lecoulle                                                                                     | gra         |
| of Said quarter section, South of Lecoville<br>road 18 Cales and 17 Links. 25 miles &                                          | ,           |
| Name of owner: I layer like Address: B. B. C.                                                                                  |             |
| Name of Well Drilling Contractor:                                                                                              |             |
| Address: //// //c-/- M. Charles                                                                                                |             |
| Name of Drilling Equipment Operator:                                                                                           | <del></del> |
| INFORMATION ON THE WELL                                                                                                        |             |
| Completed depth of well: 100 ft. Date well was completed:                                                                      |             |
| Diameter of outside casing or drive pipe: 4 Length:                                                                            |             |
| Diameter of inside casing or liner: Length:                                                                                    | _           |
| Diameter of Screen: Length: Slot size:                                                                                         |             |
| Type of Well: Drilled G Gravel Pack Driven Other                                                                               | -           |
| Use of Well: For home 🛛 For industry 🗍 For public supply 🗒 — Stock 🗍                                                           |             |
| Method of Drilling: Cable Tools 🛭 Rotary 🗌 Rev. Rotary 🗋 Jet 🗍 Driven 🗍                                                        |             |
| Static water level in completed well (Distance from ground to water level) #2 ft.                                              |             |
| Bailer Test: Hours tested / Rate 18 g.p. Drawdown 12 ft. (Difference between                                                   |             |
| Pumping Test: Hours tested <u>none Rate g.p.m.</u> Drawdown ft. level at end of test)                                          | r           |
|                                                                                                                                |             |
| Signature Zine                                                                                                                 |             |
| Date Acción                                                                                                                    |             |

| WATER WELL LOG                                       |                                       |             |                                                                                                                                      |
|------------------------------------------------------|---------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| FORMATIONS (Color, type of material, hardness, etc.) | From                                  | To          | COUNTY: Topo. Map: Topo. Map: El. of grn Depth to b Well Log p                                                                       |
| Part                                                 | 0                                     | 4           | Map:                                                                                                                                 |
| While limisterie Hard                                | 6                                     | 40          | o: A  ond. surf bedrock: processe                                                                                                    |
| Blue -                                               | 40                                    | 65          | o: A U iversity of the cond. Surface at bedrock: processed by:                                                                       |
| While.                                               | 65                                    | 83          | by:                                                                                                                                  |
| Blue skale                                           | 83                                    | 100         | well:                                                                                                                                |
|                                                      |                                       |             |                                                                                                                                      |
|                                                      |                                       |             | 1 0 m                                                                                                                                |
|                                                      |                                       |             | FOR (Well 7)                                                                                                                         |
|                                                      | · · · · · · · · · · · · · · · · · · · |             | I Dri                                                                                                                                |
|                                                      |                                       |             | Iller<br>ジゲー                                                                                                                         |
|                                                      |                                       |             | FOR ADMINISTRATIVE USE ONLY well Driller does not fill out)  TWP 5/Y RGE. / E SY  Courthouse Loc.  Field Located  Placed in Master w |
|                                                      |                                       |             | RATIVE USE ONLY does not fill out)  RGE. / E SE ;  RGE. / E SE ;  Courthouse Loc. By Field Located By Placed in Master Well L        |
|                                                      |                                       |             | USE ONLY of fill ou  E ccepted w/ ccepted c. coated in Master                                                                        |
|                                                      |                                       |             | DNLY out                                                                                                                             |
|                                                      |                                       |             | Sout)  yout)  yout)  By  By  By  Rel11                                                                                               |
|                                                      |                                       |             |                                                                                                                                      |
|                                                      |                                       |             | 五                                                                                                                                    |
|                                                      |                                       |             |                                                                                                                                      |
| -                                                    |                                       |             | Yes Date Date                                                                                                                        |
| REMARKS:                                             | <del></del>                           | <del></del> | SS                                                                                                                                   |

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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana.

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DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 609 STATE OFFICE BUILDING INDIANAPOLIS 9, INDIANA

WATER WELL RECORD



INFORMATION ON WELL LOCATION

| County in which well was drilled: 13WRENCE Civil Township: Shawswick                                     |
|----------------------------------------------------------------------------------------------------------|
| Congressional township: 5 NORTH Range: 1 EAST Number of section: 18  (Fill in as completely as possible) |
| Describe in your own words the well location with respect to nearby towns, roads, streets                |
| or distinctive landmarks: APP, I Mile East of Bedford INd.                                               |
| 1                                                                                                        |
|                                                                                                          |
| -                                                                                                        |
| Name of owner: Glenn D Woody Address: RR#6 Bedford, Indian                                               |
| Name of Well Drilling Contractor: ERVIX UMPARESS & SONS                                                  |
| Address: Bed Ford, INd.                                                                                  |
| Name of Drilling Equipment Operator: Eugened Charles UmPhress                                            |
| INFORMATION ON THE WELL                                                                                  |
| Completed depth of well: 200 ft. Date well was completed: S / 6/63                                       |
| Diameter of outside casing or drive pipe:                                                                |
| Diameter of inside casing or liner: 53/6 Length: 6                                                       |
| Diameter of Screen: Length: Slot size:                                                                   |
| Type of Well: Drilled [ Gravel Pack                                                                      |
| Use of Well: For home [ For industry  For public supply  Stock                                           |
| Method of Drilling: Cable Tools ( Rotary Rev. Rotary  Jet  Driven                                        |
| Static water level in completed well (Distance from ground to water level) / 00 ft.                      |
| Bailer Test: Hours tested Rate 2 g.p.m. Drawdown 100 ft. (Difference between static level and water      |
| Pumping Test: Hours tested Rate g.p.m. Drawdown ft. level at end of test)                                |
|                                                                                                          |
| Signature Mew Medood                                                                                     |
| Signature Second Cook  Date 8 / 6 / 6 3                                                                  |

|                |                                       |       |        |             |      |        |       | (1)     |              |           |             |               | FIVE<br>s not |               |      |             |           |      |      |             |              |              |              |          |
|----------------|---------------------------------------|-------|--------|-------------|------|--------|-------|---------|--------------|-----------|-------------|---------------|---------------|---------------|------|-------------|-----------|------|------|-------------|--------------|--------------|--------------|----------|
|                | COUNTY                                | ?:    |        | <del></del> | ·    |        |       |         | :. qwi       | <u>ケン</u> | <u>')</u> R | GE . /        | 2             |               |      |             |           |      |      |             |              |              |              |          |
|                | Topo M                                | lap:_ |        |             |      | ·. / ^ |       | مبر     |              |           | -           | -             | <br>          | <u>es</u>     | 't W | of E        | L.        | Grou | nd e | leva        | tion         | 5            | SC           | <u>}</u> |
|                | Well 1                                |       |        |             |      | By_    |       | <u></u> | Date         | 1         |             | <u>:</u>   -  |               | £             | TE R | of 5        | nL,<br>Π. | Redr | n to | Dad<br>vala | rock<br>atio |              |              |          |
|                | Courth<br>Field<br>Acc. v             | loca  | ated   |             |      | By \   | 10%   | T       | vace<br>Date | ₹.        | -:-         | آين           |               | t             | et S | 4 10        | (Ц.       | Aqui | ter  | elev        | ac 101       | 1            |              | -        |
| -              | , , , , , , , , , , , , , , , , , , , | 70 0  | 7ELL.  | Tica        | LION | · 'y'  |       |         | Date         |           |             | $- \parallel$ |               | <del></del> - |      | <del></del> |           |      |      | 5           |              |              | <del>-</del> |          |
|                | J.                                    | 30,0  | 23     | 51          | 20   | 10.3   | ,000  |         |              |           |             |               |               |               |      |             |           |      |      | -           |              | \<br>\{\; \; |              |          |
|                | Frоm                                  | 0     | 2 /2   | 23          | 1.5  | 70     | 103   |         |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
|                | etc.)                                 |       |        |             |      |        |       |         |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
|                |                                       |       | -      |             |      |        | ,     |         |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
| WATER WELL LOG | hardness,                             |       | 1/2 R  |             | 1    | 1      | 120   | 1       |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
| 出              |                                       |       |        | 1           |      |        | 5     |         |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
| WAT            | material,                             |       |        | ,           | ,    |        | }     |         |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
|                | of                                    |       |        | 5           |      |        |       |         |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
|                | type                                  |       |        | 2/0/2       |      |        | -     | 7       |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
|                | olor,                                 |       |        | 37          | 1    | ;      | 6 4 0 | 27.76   |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
|                | ORMATIONS (Color.                     | 1     |        | 7           |      |        |       |         |              |           |             |               |               |               |      |             |           |      |      |             |              |              |              |          |
| 7              | MATIO                                 | '(    | 1      | 2           | 3    | 170    | 2     | 2 7     |              |           |             |               |               |               |      |             |           |      |      |             |              | REMARKS:     |              |          |
|                | OR O                                  |       | otag . | Ž.          | ·    | 70     | XX .  | Y       |              | -         | <b>*</b> *  |               | 1             |               |      |             |           |      |      | ı           |              | 色            |              | 1        |

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as t may be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location. As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted

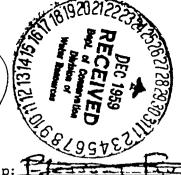
within thirty days after the completion of a well to the Division of Water Resources, Indiana

Department of Conservation.

#### DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET

INDIANAPOLIS, INDIANA

#### WATER WELL RECORD



INFORMATION ON WELL LOCATION Civil Township: 1-County in which well was drilled: Number of section: Congressional township:\_ \_ Range: \_\_ (Fill in as completely as possible) Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks:

Name of Well Drilling Contractor: Name of Drilling Equipment Operator:

#### INFORMATION ON THE WELL

| Completed depth of well:  | ft. Date wel             | l was completed: 10 Mox    | conten, 195                           |
|---------------------------|--------------------------|----------------------------|---------------------------------------|
| Diameter of outside casis | ng or drive pipe:        | ine. Length: //            | 4.ft.                                 |
|                           |                          | Length:                    |                                       |
| Diameter of Screen:       | Length:                  | Slot size:                 | · · · · · · · · · · · · · · · · · · · |
| Type of Well: Drilled     | 🛚 Gravel Pack 🗌          | Driven Other               | 11                                    |
| Use of Well: For home     | For industry             | For public supply          | Stock 🔯                               |
| Method of Drilling: Cab   | le Tools 🛭 Rotary 🗌      | Rev. Rotary   Jet          | Driven 🗌                              |
|                           | - <b>u</b> ,,            | rom ground to water level) |                                       |
| Bailer Test: Hours teste  | d <u>Bk</u> Rate & g.p.m | . Drawdownft. (Diffe       | rence between c level and water       |
| Pumping Test: Hours test  | edg.p.m.                 | . Drawdownft. level        |                                       |
|                           |                          |                            |                                       |

|          |                                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                 |                      |  |  | <br>TWP. | 51 | <u>√</u> <sub>R</sub> | GE. | <br>W | 2 | <u> </u> | V v- | 1 - 3 | £ 1 | . SE | ic.      | 2 | 3 |
|----------|-------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|--|----------|----|-----------------------|-----|-------|---|----------|------|-------|-----|------|----------|---|---|
|          |                                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                 |                      |  |  |          |    |                       |     |       |   |          |      |       |     |      | 60       |   |   |
| 6        | 01                                                    |             |                                                                                                                                                                                                                                                                                                                                                                                                 |                      |  |  |          |    |                       |     |       |   |          |      |       |     |      |          |   |   |
| -        | From                                                  |             |                                                                                                                                                                                                                                                                                                                                                                                                 |                      |  |  |          |    |                       |     |       |   |          |      |       |     |      |          |   |   |
| מרו ווענ | /FORMATIONS (Color, type of material, hardness, etc.) | 11 14 Ob. 1 | 1 + 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 - | 10-f-11 Versas 4 125 |  |  |          |    |                       |     |       |   |          |      |       |     |      | REMARKS: |   |   |

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#### DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET

INDIANAPOLIS, INDIANA

#### WATER WELL RECORD





#### INFORMATION ON WELL LOCATION

| County in which well was drilled:awsence_ Civil Township: Shawswick                              |
|--------------------------------------------------------------------------------------------------|
| Congressional township: 5 Range: /- W Number of section: 2/  (Fill in as completely as possible) |
| Describe in your own words the well location with respect to nearby towns, roads, streets        |
| or distinctive landmarks: Next of Redford / Mi                                                   |
| 1/4 mi South we Williams Road last Side                                                          |
|                                                                                                  |
| Name of owner: Garden Lee Humillan Address: Bedfield R. R.                                       |
| Name of Well Drilling Contractor: Ray E alfund                                                   |
| Address: Milchill RRI                                                                            |
| Name of Drilling Equipment Operator: Same as a face                                              |
| INFORMATION ON THE WELL                                                                          |
| Completed depth of well: 150 Ft. Date well was completed: Sept 25-65-                            |
| Diameter of outside casing or drive pipe: 65/8 Length: 39/2                                      |
| Diameter of inside casing or liner: 6/4 Length: 39/2                                             |
| Diameter of Screen: Length: Slot size:                                                           |
| Type of Well: Drilled Oravel Pack O Driven Other                                                 |
| Use of Well: For home For industry To For public supply Stock T                                  |
| Method of Drilling: Cable Tools Rotary Rev. Rotary Jet Driven                                    |
| Static water level in completed well (Distance from ground to water level) 70 Ft.                |
| Bailer Test: Hours tested Rate / g.p.m. Drawdown / Ft. (Difference between                       |
| Static level and water Pumping Test: Hours tested Rate g.p.m. Drawdown Ft. level at end of test) |
| Signature Ray & alfael                                                                           |
| Date left 25-65                                                                                  |
| FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET                                                |

|                  | COUNTY<br>Topo M                                     | :                     | <u> </u>         | ر<br>دوم<br>رگور | t.s.     | <u>n</u>             | · <u>C</u> | _ TWI            | <u>ک</u> . د   | T N      | RGE | s                      | not<br>W | <u> </u>       | 77 | <u>}</u>                | <u>~</u>   |                      | £ :3         | ž SE                 |                        | 2        |    |   |
|------------------|------------------------------------------------------|-----------------------|------------------|------------------|----------|----------------------|------------|------------------|----------------|----------|-----|------------------------|----------|----------------|----|-------------------------|------------|----------------------|--------------|----------------------|------------------------|----------|----|---|
|                  | Well 1<br>Courth<br>Field<br>Acc. v                  | og c<br>louse<br>loca | lass:<br>located | ified<br>ated    | 1 6      | By Z<br>By Z<br>By S | 771        | L Da<br>Da<br>Da | te<br>te<br>te | <b>}</b> |     | -  - <del> </del> -  - | 50       | Ft<br>Ft<br>Ft | EC | of SI<br>of WI<br>of NI | . D<br>. B | epth<br>edro<br>quif | ck e<br>er e | bedr<br>leva<br>leva | cock<br>ition<br>ition | b        | 50 | ~ |
|                  | To                                                   | 5.2                   | 09               | 140              | 155      | 179                  |            |                  |                |          |     |                        |          |                |    |                         |            |                      |              |                      |                        | 1        |    |   |
|                  | From                                                 | 0                     | 50               | 60               | 140      | 15.5                 |            |                  |                |          |     |                        |          |                |    |                         |            |                      |              |                      |                        |          |    |   |
| LIATER LEIT. 100 | FORMATIONS (Color, type of material, hardness, etc.) | Me                    | Celt Gimel       | limi             | mid land | 11 1200              |            |                  |                |          |     |                        |          |                |    |                         |            |                      |              |                      |                        | REMARKS: |    |   |

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INSTRUCTIONS

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within thirty days after the completion of a well to the Division of Water

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### DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET INDIANAPOLIS, INDIANA

#### WATER WELL RECORD



| INF | ORMA | TION | ON | WELL | LOCATION |  |
|-----|------|------|----|------|----------|--|
|     |      |      |    |      |          |  |

| ty in which well was drilled:                | LANGERCE                   | Civil To                     | ownship:     | PORICK.                         |
|----------------------------------------------|----------------------------|------------------------------|--------------|---------------------------------|
| ressional township:(Fill in                  | Range:                     |                              | Number of    | section:                        |
| (Fill in oribe in your own words the well in | as completely ocation with | as possible) respect to near | rby towns, r | oads, streets                   |
| distinctive landmarks: From                  | BeDFORP                    | GIING                        | West on      | 164 ST                          |
| Tuin lett IN 45                              |                            |                              |              |                                 |
| at 2nd curve.                                |                            |                              |              |                                 |
|                                              |                            |                              |              |                                 |
| me of owner: GENC BCK                        |                            | Address:                     |              |                                 |
| me of Well Drilling Contractor:              | Louis                      | 0.5M                         | 1+4          |                                 |
| idress:                                      | FH/                        | ReDFO                        | · D          |                                 |
| ame of Drilling Equipment Operator:          | SAM                        | ۷                            |              |                                 |
| IN                                           | FORMATION O                | n the Well                   |              |                                 |
| Completed depth of well: //2 ft              | . Date well w              | as completed:                | Dec, 9       | 7,1963                          |
| Diameter of outside casing or drive p        |                            |                              |              |                                 |
| Diameter of inside casing or liner:          |                            | Le                           | ength:       |                                 |
| Diameter of Screen:Len                       | gth:                       | S1                           | ot size:     | · .                             |
| Type of Well: Drilled Gravel Pa              | ack 🔘 D                    | riven 🗍 Ot                   | her          | _ 11                            |
| Use of Well: For homes For indus             | stry [] F                  | or public supp               | oly 🔘        | Stock                           |
| Method of Drilling: Cable Tools              | Rotary 🗌 Re                | v. Rotary 🔘                  | Jet 🗌        | Driven 🗌                        |
| Static water level in completed well (       | Distance from              | ground to wat                | er level)    | <i>95</i> ft.                   |
| Bailer Test: Hours tested Rate.              | 5 g.p.m.                   | Drawdown 163                 |              |                                 |
| Pumping Test: Hours testedRate_              | g.p.m.                     | Drawdown                     | ft. level    | level and water at end of test) |
|                                              | Signatur                   | Jones                        | 1. Love      | 21                              |
|                                              | Date                       | •                            | 14, 196      | 3                               |
| won werr roc en                              | and abu ab                 | AL AUTS ASS                  | יישוים פוויי | ~24                             |

Bedrock elevation Aquifer elevation

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REMARKS:

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### DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209

MElrose 3-6757

#### WATER WELL RECORD

-10 hs.

#### INFORMATION ON WELL LOCATION

| County in which well was drilled: Civil Township:                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                    |
| Congressional township:  Range:  Number of section:  (Fill in as completely as possible)  Describe in your own words the well location with respect to nearby towns, roads, streets                                                                                                                                                |
| or distinctive landmarks: from Belford from gain about 2 mi                                                                                                                                                                                                                                                                        |
| Tun left on 450 gu shout is me to Bet lots.                                                                                                                                                                                                                                                                                        |
| well be 4thouse an Right                                                                                                                                                                                                                                                                                                           |
| Taxas Aux : Mount                                                                                                                                                                                                                                                                                                                  |
| Name of owner: Illen Grang Address: Bedford                                                                                                                                                                                                                                                                                        |
| Name of Well Drilling Contractor: Sauce of Smith                                                                                                                                                                                                                                                                                   |
| Address: RH/Belford                                                                                                                                                                                                                                                                                                                |
| Address:                                                                                                                                                                                                                                                                                                                           |
| Name of Drilling Equipment Operator:                                                                                                                                                                                                                                                                                               |
| INFORMATION ON THE WELL                                                                                                                                                                                                                                                                                                            |
| Completed depth of well: 175 ft. Date well was completed: 200 1965                                                                                                                                                                                                                                                                 |
| Diameter of outside casing or drive pipe: 6/4 Length: 52'                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                    |
| Diameter of inside casing or liner:Length:                                                                                                                                                                                                                                                                                         |
| 74                                                                                                                                                                                                                                                                                                                                 |
| Diameter of inside casing or liner:                                                                                                                                                                                                                                                                                                |
| Diameter of Screen: Length: Slot size:                                                                                                                                                                                                                                                                                             |
| Diameter of Screen: Length: Slot size:;  Type of Well: Drilled                                                                                                                                                                                                                                                                     |
| Diameter of Screen: Length: Slot size: Type of Well: Drilled Gravel Pack Driven Other  Use of Well: For home For industry For public supply Stock                                                                                                                                                                                  |
| Diameter of Screen: Length: Slot size: Type of Well: Drilled    Gravel Pack    Driven    Other  Use of Well: For home    For industry    For public supply    Stock      Method of Drilling: Cable Tools    Rotary    Rev. Rotary    Jet    Driven      Static water level in completed well (Distance from ground to water level) |
| Diameter of Screen: Length: Slot size: Type of Well: Drilled                                                                                                                                                                                                                                                                       |
| Diameter of Screen:                                                                                                                                                                                                                                                                                                                |
| Diameter of Screen:                                                                                                                                                                                                                                                                                                                |

| •                                                    |               |             |       |            |                    |            |          | FOR 1    |    |            |       |     |    |          | :)   |          |               |            |              |      | A STATE OF THE PARTY OF THE PAR | -Mar |   |
|------------------------------------------------------|---------------|-------------|-------|------------|--------------------|------------|----------|----------|----|------------|-------|-----|----|----------|------|----------|---------------|------------|--------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|
| COUNTY                                               | <u>''۔۔۔</u>  | 2           | San   | ہر م       | r_7                | LA C       | _ TW     | P        | 1) | ,<br>_ RGE | ار/   | ١   | S  | <u> </u> | 30   | <u> </u> | ٠<br><u>۲</u> | 心          | 之<br>· S     | EC   | 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      | _ |
| Topo 1                                               | 1ap:_         | 4           | Zed   | JA.        | el                 |            | 24       | et.      | 2  | <u>ځ</u>   | $L\ $ | 900 | Ft | : W c    | of E | և, (     | Grou          | nd e       | leva         | tion | 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0-1  | _ |
| Well<br>Court<br>Field<br>Acc.                       | house<br>loca | loc<br>ted  | ated  |            | Ву<br>Ву <u></u> ` | 3.70       | Da<br>Da | ite      | 1  |            | 2     | 100 | F  | EG       | of W | L.<br>L. | Bedr<br>Aqui  | ock<br>fer | elev<br>elev | atio | n 6 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5    |   |
| To                                                   | 200           | 22          | 30    | 47         | 52                 | 85         | 165      | 175-     |    |            |       |     |    |          |      |          |               |            |              |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |
| From                                                 | 0             | 20          | 77    | 30         | 47                 | 52         | 85       | 391      |    |            |       |     |    |          |      |          |               |            |              |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |
| FORMATIONS (Color, type of material, hardness, etc.) | ( Jan         | Brown Class | JAM . | hast limit | 2 Mt               | hest livid | and land | had lain |    |            |       |     |    |          |      |          |               |            |              |      | REMARKS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |

is designed to record the most essential data concerning this information This Water Well Record form is designed to record the most essential data concerater well. We request that you be as accurate as possible in recording this informater well. We request that you be as accurate as possible in recording this informater well. It may be of great assistance in the planning and development of new water supplies.

INSTRUCTIONS

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location. As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submited space.

submitted within thirty days after the completion of a well to the Division of Water

FC

| MITER ALLE IN                                       |      |     |                                                                                        |                  |
|-----------------------------------------------------|------|-----|----------------------------------------------------------------------------------------|------------------|
| ORMATIONS (Color, type of material, hardness, etc.) | From | То  | Topo Map: Scaled Well log classified Courthouse located Field located Field verificati |                  |
| Øley                                                | 0    | 36  | Map:<br>log c<br>house<br>house                                                        | <b>.</b>         |
| Lime                                                | 36   | 58  | land land                                                                              |                  |
| Mud & Bresks of Lime                                | 58   | 63  | classified se located verification                                                     |                  |
| Lime                                                | 63   | 158 |                                                                                        | í                |
| Breaks of Lime Water                                | 158  | 180 | 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5                                                |                  |
| Lime                                                | 180  | 186 |                                                                                        |                  |
|                                                     |      |     | 1 1 1 1 1                                                                              |                  |
|                                                     |      |     | Date Date Date                                                                         | FOR ADMINI       |
|                                                     |      |     | 8 2 2 2                                                                                | drij             |
| 7.7 PH.                                             |      |     | N RGE                                                                                  |                  |
| 0.1 Iron                                            |      |     | l l ı r                                                                                | 0 .              |
| 20 grams hardest                                    |      |     | 3 5 5 3                                                                                | ATIVE USE        |
|                                                     |      |     | 5 0 0                                                                                  | USE ON           |
|                                                     |      |     | EL SECTION OF                                                                          | ) <del>F</del> 8 |
| Well as 35 ft. from house                           |      |     |                                                                                        | i gr             |
| The well was Switched                               |      |     | ATION W                                                                                | )                |
| Set pump 175 ft.                                    |      |     | of EL. Ground e of SL. Depth to of WL. Bedrock of NL. Aquifer                          |                  |
|                                                     |      |     | fer fer                                                                                | 77               |
|                                                     |      | -   | elevation o bedrock elevation elevation                                                | 1                |
|                                                     |      |     | levation bedrock elevation elevation                                                   | •                |
| MARKS:                                              |      | -   |                                                                                        |                  |
|                                                     |      |     | 2007<br>3007<br>2007<br>2007                                                           | n (military, ca  |
|                                                     |      | 1   | (   4 7 - 1                                                                            | 1                |
|                                                     |      |     | £ 1/2                                                                                  | H                |
| <b>すいたて中心にはなっている</b>                                |      | ~   |                                                                                        |                  |

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

INSTRUCTIONS

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water

and the state of t

### DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209 MElrose 3-6757

#### WATER WELL RECORD

| INFORMATI                                                  | ON ON WEIL I    | OCATI                                 | ON                 | Tonk                              |
|------------------------------------------------------------|-----------------|---------------------------------------|--------------------|-----------------------------------|
| County in which well was drilled: LAW                      | RENCE           | Civil                                 | Township:          |                                   |
| Congressional township: (Fill in as co                     | _ Range:        |                                       | Number             | of section:                       |
| (Fill in as condescribe in your own words the well located | mpletely as po  | ssible)<br>ct to n                    | )<br>earby towns.  | roads, streets                    |
| or distinctive landmarks: S.R. 158                         | _               |                                       |                    |                                   |
| or distinctive landmarks: S. 1. 150                        |                 | <u> </u>                              | s. n. 450          |                                   |
|                                                            | <u>'</u>        |                                       | C. +               | 2/                                |
|                                                            | Maye            | el o                                  | xellox             | . 2/                              |
|                                                            |                 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | $/\omega$          |                                   |
| Name of owner: Larry D. McGert                             | <b>A</b> dd     | Lress: 3                              | 12 Indiana         | Ave. Oolitic, Inc                 |
| Name of Well Drilling Contractor:                          | MIMMA DRI       | ILLING                                | , INC.             | ***                               |
| dress: Washinton & Lyon                                    | s, Indiana      |                                       |                    |                                   |
| Name of Drilling Equipment Operator:                       | De              | an K                                  | Mumma              |                                   |
| INFORM                                                     | ATION ON THE    | WELL                                  |                    |                                   |
| Completed depth of well: 186 ft. Da                        |                 |                                       | •                  | ·67                               |
| Diameter of outside casing or drive pipe:_                 |                 |                                       |                    |                                   |
|                                                            |                 |                                       |                    | ₩ <b>.</b>                        |
| meter of inside casing or liner:                           |                 |                                       |                    | ** 4                              |
| Diameter of Screen: Length:                                | •               |                                       |                    | ,                                 |
| Type of Well: Drilled  Gravel Pack                         | Driven          |                                       | Other              | -                                 |
| Use of Well: For home (X) For industry                     |                 |                                       |                    | Stock []                          |
| Method of Drilling: Cable Tools Rotar                      | r Rev. Rot      | ary 🛭                                 | Jet 🗌              | Driven [                          |
| Static water level in completed well (Dista                | ince from groun | úd to wa                              | ater level)_       | 109 ft.                           |
| Bailer Test: Hours tested Rate 52                          | g.p.m. Drawdo   | nn <u>18</u>                          |                    |                                   |
| Pumping Test: Hours testedRate                             | g.p.m. Drawdo   | can                                   | stati<br>ft. level | c level and water at end of test) |
|                                                            |                 |                                       |                    |                                   |
|                                                            | Signature A.    | to 01                                 | Limber             | Secretisa                         |
|                                                            | Date 12.4.      | 47                                    | ,                  | Secretary                         |

### DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209 MElrose 3-6757

#### WATER WELL RECORD



#### INFORMATION ON WELL LOCATION

| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| County in which well was drilled: A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | WYCREC Civil Township: SHAWE WICK                                           |
| Congressional township:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Range: Number of section: completely as possible)                           |
| (Fill in as Describe in your own words the well located to the wel | completely as possible; attion with respect to nearby towns, roads, streets |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BeDford Goins West on 16th                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 150 GO AFFIOX. 4 MI. ISTROAL                                                |
| 1 = [ (   Sex   W   110 N )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |
| Name of owner: WAYYETT WILL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NAN Address: R#1 Broforo.                                                   |
| Name of Well Drilling Contractor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Louis Smith                                                                 |
| Address: R #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 Bedford                                                                   |
| Name of Drilling Equipment Operator:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SAME                                                                        |
| INFO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RMATION ON THE WELL                                                         |
| <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date well was completed: JUNC 19, 1970                                      |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 64 Length: 42                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | **                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Length:                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Slot size:                                                                  |
| Type of Well: Drilled $igtimes$ Gravel Pack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Driven Other                                                                |
| Use of Well: For home  For industry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | For public supply Stock -                                                   |
| Method of Drilling: Cable Tools ☒ Rot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ary Rev. Rotary Jet Driven                                                  |
| Static water level in completed well (Dis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | tance from ground to water level) 75 ft.                                    |
| Bailer Test: Hours tested Rate / S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | g.p.m. Drawdown 125 ft. (Difference between                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | static level and waterft. level at end of test)                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Signature Janie O. Lovelle                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Data 18" (1970)                                                             |

| C T EDW        | OUNTY opo. l. of epth fell I                      | Map f gr to Log | id.<br>bedi | su<br>rocl    | rfack: _sed                           | e at        | / /s<br>/ we) | 11: _<br>1: _<br>1: _ | <u>, ,                                   </u> | (Wel          | l Dr<br>TWP. | ille<br>グァ | r do<br>7R | GE. | ot 1<br><u>/%</u> | 111 | out) | SW sica | tion<br>File | E | SE SE | c. <u>Z</u> | -1 |  |
|----------------|---------------------------------------------------|-----------------|-------------|---------------|---------------------------------------|-------------|---------------|-----------------------|-----------------------------------------------|---------------|--------------|------------|------------|-----|-------------------|-----|------|---------|--------------|---|-------|-------------|----|--|
|                | OI                                                |                 |             | 25-           | 27                                    | 000         | 10            | 111                   | 0 13                                          | 125           | 130          | . 170      |            |     |                   |     |      |         |              |   |       |             |    |  |
|                | From                                              |                 | 9           | 20            | 25                                    | 27          | 30            | 47.0                  | 111                                           | 0             | 125          | 130        |            |     |                   |     |      |         |              |   |       |             |    |  |
| WATER WELL LOG | serions (Color, type of material, hardness, etc.) | 1               | 200 10      | Birning Class | , , , , , , , , , , , , , , , , , , , | 7/11/ 1/016 | 7, 1, 6, 6    | 1 1 1 1               | 7/11/11/11/11                                 | 100 100 WHITE |              | 3.0        |            |     |                   |     |      |         | ,            |   |       | EMARKS:     |    |  |

25 This Water Well Record form is designed to record the most essential data concerning a rater well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted

within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana.

#### DIVISION OF WATER

DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209 MElrose 3-6757

#### WATER WELL RECORD



#### INFORMATION ON WELL LOCATION

| County in which well was drilled: Civil Township:                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------|
| Congressional township: Range: Number of section:                                                                              |
| (Fill in as completely as possible)  Describe in your own words the well location with respect to nearby towns, roads, streets |
| or distinctive landmarks: Eran: 13 chood grains west turn                                                                      |
| left on 450 ge opened 12 mil Stone house                                                                                       |
| on left Thomas Butney place)                                                                                                   |
|                                                                                                                                |
| Name of owner: Ilomas Cheataut Address: R# / Bedford                                                                           |
| Name of Well Drilling Contractor:                                                                                              |
| Address: RHI Bedford                                                                                                           |
| Name of Drilling Equipment Operator:                                                                                           |
| INFORMATION ON THE WELL                                                                                                        |
| Completed depth of well: 179 ft. Date well was completed: Dic 15, 1968                                                         |
| Diameter of outside casing or drive pipe:Length:                                                                               |
| Diameter of inside casing or liner:                                                                                            |
| **                                                                                                                             |
| Diameter of Screen: Iength: Slot size:                                                                                         |
| Type of Well: Drilled                                                                                                          |
| Use of Well: For home For industry  For public supply  Stock  Stock                                                            |
| Method of Drilling: Cable Tools 🛭 Rotary 🗌 Rev. Rotary 🗍 Jet 🗍 Driven 🗍                                                        |
| Static water level in completed well (Distance from ground to water level) /3 o ft.                                            |
| Bailer Test: Hours tested 2. Rate 1/2 g.p.m. Drawdown 177 ft. (Difference between                                              |
|                                                                                                                                |
| static level and water  Pumping Test: Hours tested                                                                             |
| Static level and water Pumping Test: Hours tested Rate g.p.m. Drawdown ft. level at end of test)                               |
| static level and water                                                                                                         |

|                | El. of                                                | grnd.                    | Surfaction occessed | e at | well: | ( el. | T. 5.5 | N<br>N | RGE. Loc. Court | ot fi /// accep house Loca | 11 mit | V <sub>1</sub> SV<br>o ver<br>By<br>By | V 1<br>ifica | NE<br>tion | Date<br>Nate | , 2<br>N | 2 /<br>0<br>- 66 |  |
|----------------|-------------------------------------------------------|--------------------------|---------------------|------|-------|-------|--------|--------|-----------------|----------------------------|--------|----------------------------------------|--------------|------------|--------------|----------|------------------|--|
|                | To                                                    | 39                       | 150                 |      |       |       |        |        |                 |                            |        |                                        |              |            |              |          |                  |  |
|                | From                                                  | 0                        | 39                  |      |       |       |        |        |                 |                            |        |                                        |              |            |              |          |                  |  |
| WATER WELL LOG | FORN'ATIONS (Color, type of material, hardness, etc.) | fail & colon from Boldin | Group Line.         |      |       |       |        |        |                 |                            |        |                                        |              |            |              |          | REMARKS:         |  |

This ater Tell Record form is designed to record the most essential data concerning a ster well. The request that you be as accurate as possible in recording this information as a curate location of the well is equally as important as an accurate kell log.

\*\*An accurate location of the well is equally as important as an accurate kell log.

\*\*Please include all information possible in the space provided for well location.

\*\*As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted as specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted feath thirty days after the completion of a well to the Division of Water Resources, Indiana.

\*\*Department of Conservation, 311 Fest Fashington Street, Indianapolis, Indiana.

#### DIVISION OF WATER

DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

### STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209

MElrose 3-6757

#### WATER WELL RECORD



| County in which well was drilled:                                         | Civi                                  | il Township:    | us wied                       |
|---------------------------------------------------------------------------|---------------------------------------|-----------------|-------------------------------|
|                                                                           |                                       |                 |                               |
| Congressional township:  (Fill in as of                                   | completely as possible                | le)             | -144-                         |
| Describe in your own words the well loca                                  | · · · · · · · · · · · · · · · · · · · |                 |                               |
| or distinctive landmarks:                                                 | 3 ford going                          | west Tue        | n left                        |
| or distinctive landmarks: From 7  on SR 450 go about  homesites 1st house | 1 1/2 mi Tes                          | m left d        | t Befer                       |
| homesites 1st four                                                        | e on lift                             | <u>,</u>        | ·                             |
|                                                                           |                                       |                 |                               |
| Name of owner: Roy Bake                                                   | Address                               | : BI Beld       | ind                           |
| Name of Well Drilling Contractor:                                         | Louis O.                              | Smith           |                               |
| Address:                                                                  | R#1 R.L                               | laid.           |                               |
| Name of Drilling Equipment Operator:                                      | /                                     |                 |                               |
| INFO                                                                      | MATION ON THE WE                      | LL              |                               |
| Completed depth of well: 145 ft. I                                        |                                       |                 | 7. 1867                       |
| Diameter of outside casing or drive pipe:                                 | _                                     |                 | •                             |
|                                                                           | ·                                     |                 | *                             |
| Diameter of inside casing or liner:                                       | •                                     | _               |                               |
| Diameter of Screen:Length:                                                |                                       | Slot size:      | *                             |
| Type of Well: Drilled 🗗 Gravel Pack                                       | ☐ Driven ☐                            | Other           |                               |
| Use of Well: For home @ For industry                                      | For public                            | supply 🔘        | Stock                         |
| Method of Drilling: Cable Tools @ Rot.                                    | ary 🗌 Rev. Rotary                     | O Jet O         | Driven 🗌                      |
| Static water level in completed well (Dis-                                | tance from ground to                  | water level)    | ft.                           |
| Bailer Test: Hours tested / Rate 8                                        | _g.p.m. Drawdown                      |                 |                               |
| Pumping Test: Hours testedRate                                            | g.p.m. Drawdown /                     | 35 ft. level at | level and water cend of test) |
|                                                                           | <u> </u>                              |                 |                               |
|                                                                           | Simpatuna X                           | , 17 I          | ~/                            |
|                                                                           | Signature free                        | La gmus         |                               |

| WATER WELL LOG                                   | ·    |       |                                                                                            |
|--------------------------------------------------|------|-------|--------------------------------------------------------------------------------------------|
| ATIONS (Color, type of material, hardness, etc.) | From | То    | Copo. Map: Fopo. Map: El. of grn Depth to b Well Log p                                     |
| ~/AV                                             | 0    | 35-   | Map:                                                                                       |
| WHITE LIME                                       | 35   | 41    | 0 7 1 10                                                                                   |
| " 5 He //                                        | 41   | 411   | Surface at well: ock: essed by: www.                                                       |
| LIME                                             | 414  | ن شرا | by:                                                                                        |
| Solt SHell                                       | 123  | 125   | t we                                                                                       |
| HArD LIME                                        | 125  | 175   | 1 1 1 1 1                                                                                  |
|                                                  |      |       | 4 7.                                                                                       |
|                                                  |      |       |                                                                                            |
|                                                  |      |       |                                                                                            |
|                                                  |      |       | AP. SM RGE. / W M/o  Loc. accepted w/o  Courthouse Loc.  Field Located  Placed in Master W |
|                                                  |      |       |                                                                                            |
|                                                  |      |       | RGE. Loc. : Courth Field Placed                                                            |
|                                                  |      |       | RGE. LUL ME; SUL, SUL, SUL, SUL, SUL, SUL, SUL, SUL,                                       |
|                                                  |      |       | se Locateon Mai                                                                            |
|                                                  |      |       | ster                                                                                       |
|                                                  |      |       | W/o verific  By  or Well log                                                               |
|                                                  |      |       | Se Sining                                                                                  |
|                                                  |      |       | cati                                                                                       |
|                                                  |      |       | S D D D D D D D D D D D D D D D D D D D                                                    |
|                                                  |      |       | *11-71                                                                                     |
| K5:                                              |      |       | No No                                                                                      |
|                                                  | -    |       | 12 12                                                                                      |
|                                                  |      |       |                                                                                            |

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#### DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET INDIANAPOLIS, INDIANA

#### WATER WELL RECORD



#### INFORMATION ON WELL LOCATION

| County in which well was drilled:                           | reace Civil Township: SHANNICK                                       |
|-------------------------------------------------------------|----------------------------------------------------------------------|
|                                                             | Range: Number of section: pletely as possible)                       |
| (Fill in as composeribe in your own words the well location | pletely as possible) on with respect to nearby towns, roads, streets |
| or distinctive landmarks: From Be                           | DFORD GOING WEST                                                     |
| THYN LEFTON 45                                              | o To 1st House ON                                                    |
|                                                             |                                                                      |
| Left,<br>Conold Time                                        |                                                                      |
|                                                             | Address: B#/ BCDForQ                                                 |
| Name of Well Drilling Contractor:                           | oure o. Smith                                                        |
| Address: RHI BrDA                                           | or D                                                                 |
| Name of Drilling Equipment Operator:                        |                                                                      |
| INFORMA                                                     | TION ON THE WELL                                                     |
|                                                             | e well was completed: Nov. 6, 196/                                   |
|                                                             | 6 14 Length: 32                                                      |
| Diameter of inside casing or liner:                         |                                                                      |
|                                                             |                                                                      |
| Type of Well: Drilled  Gravel Pack                          | Slot size:                                                           |
| Use of Well: For home  For industry                         | 14 — 15,<br>160 — 1 16,                                              |
| <u>.</u>                                                    | Rev. Rotary = Jet Driven                                             |
| Static water level in completed well (Distan                | ce from ground to water level)ft.                                    |
| Bailer Test: Hours tested/_ Rate/ g                         | p.m. Drawdownft. (Difference between                                 |
| Pumping Test: Hours tested Rate g                           | p.m. Drawdownft. level at end of test)                               |
| S:                                                          | ignature <u>Facci</u> & Smith                                        |
| D.                                                          | ignature Jacii & Smith  ate _ 30 1961                                |

| WATER WELL LOG                                 |        |       |                       |                                 |            |                                             |                        |
|------------------------------------------------|--------|-------|-----------------------|---------------------------------|------------|---------------------------------------------|------------------------|
| TONS (Color, type of material, hardness, etc.) | From   | То    | Well                  | El. of                          | Topo. Map: | COUNTY                                      |                        |
| C/4Y                                           | ۳,     | 4/0   | Log processed by: Zel | of grnd. surf<br>th to bedrock: | Мар:       | ₹.                                          |                        |
| 34:11                                          | 41     | 44    | sabo.                 | l. sı                           |            |                                             |                        |
| LIME                                           | 44     | 120   | sed                   | surface                         | - 4        |                                             |                        |
| 51/7                                           | j= 13. | ຸ້ ລັ | <b>by</b> :           | e a                             | WA         | 1                                           |                        |
| Line                                           | 125    | 175   | 13.2                  | at well:                        |            | 10                                          |                        |
|                                                | ,      |       | <b>.</b>              | 1::                             | 2 2        | <b>.</b>                                    |                        |
|                                                |        |       | アス                    |                                 | 2 6        |                                             |                        |
|                                                |        |       | V. 8                  | 6                               |            | (We                                         | -F1                    |
|                                                |        |       | 57                    | 600                             | TWP.       | (Well Driller does not fill out)            | FOR ADMINISTRATIVE HEE |
| •                                              |        |       |                       |                                 | 121        | )<br>  11                                   | T N T N                |
|                                                |        |       | تر بارد<br>           | 10 1                            | 一口         | er d                                        | 7 (77)                 |
|                                                |        |       | lace                  | ourt.                           | RGE.       | joes                                        | 777                    |
|                                                |        |       | Flaced in Master Well | Courthouse Loc. By Date         | LRGE. 12   | not                                         | 3                      |
|                                                |        |       | ated<br>Mas           | of at                           |            | 11 11<br>11 11 11 11 11 11 11 11 11 11 11 1 | ;  <br>2               |
|                                                |        |       | ter                   | · · · / ·                       | .          | ONLY                                        |                        |
|                                                |        | _     | We US                 | By By                           | NE Su      | : ====================================      |                        |
|                                                |        |       | Tog<br>So             | 4 111                           | 52         | <b>.</b> .                                  | 10                     |
|                                                |        |       | E F                   | atio                            | **         | 550                                         | 9                      |
| _                                              |        |       | e D                   | Dn Y                            | 12         |                                             | *                      |
|                                                |        |       | Date _<br>Date _      | Yes<br>Date_                    | 2          | 747                                         | 1                      |
| REMARKS:                                       | = ==   |       | jo j                  | No                              | SEC.       | ۲,                                          |                        |
|                                                |        |       | 6                     |                                 | 12         | ı                                           |                        |
|                                                |        |       |                       |                                 |            | ,                                           |                        |

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DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET INDIANAPOLIS, INDIANA

#### WATER WELL RECORD

Lowrence Co

INFORMATION ON WELL LOCATION

| County in which well was drilled:                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------|
| Congressional township: Range: Number of section:                                                                              |
| (Fill in as completely as possible)  Describe in your own words the well location with respect to nearby towns, roads, streets |
|                                                                                                                                |
| or distinctive landmarks: By 3 min morthers & of Be ford ford.                                                                 |
| In M. Dleasant Nood.                                                                                                           |
| ·                                                                                                                              |
| • •                                                                                                                            |
| Name of owner: Elmin Fish: Address: Bedford And Ring                                                                           |
| Name of Well Drilling Contractor: Floud Steelf                                                                                 |
| Address: Belford, Ind. 1784                                                                                                    |
| ZI D VT IF                                                                                                                     |
| Name of Drilling Equipment Operator: Fley Stult                                                                                |
| INFORMATION ON THE WELL                                                                                                        |
| Completed depth of well: 8 f. Date well was completed: 12e - 2 2 ml - 195                                                      |
| Diameter of outside casing or drive pipe:   Length: 11ft-                                                                      |
| Diameter of inside casing or liner: 55 Length: 11ff                                                                            |
| Diameter of Screen: Length: Slot size:                                                                                         |
| Type of Well: Drilled  Gravel Pack  Driven  Other                                                                              |
| Use of Well: For home  For industry For public supply  Stock  S                                                                |
| Method of Drilling: Cable Tools  Rotary  Rev. Rotary  Jet  Driven  Driven                                                      |
| Static water level in completed well (Distance from ground to water level)ft.                                                  |
| Bailer Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between                                                         |
| Pumping Test: Hours testedRateg.p.m. Drawdownft. level at end of test)                                                         |
| Signature: Floyd Stulk                                                                                                         |
| Date dec. 28, 1957                                                                                                             |

Log File Date

のろ

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# DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET INDIANAPOLIS, INDIANA

### WATER WELL RECORD



### INFORMATION ON WELL LOCATION

| County in which well was drilled: LawPEVEE Civil Township: Shawshift                                                           |
|--------------------------------------------------------------------------------------------------------------------------------|
| Congressional township: Range: Number of section:                                                                              |
| (Fill in as completely as possible)  Describe in your own words the well location with respect to nearby towns, roads, streets |
| or distinctive landmarks: <u>Fast OptTic</u>                                                                                   |
|                                                                                                                                |
|                                                                                                                                |
|                                                                                                                                |
| Name of owner: Last CheNault Address: BEDEORE TIND. ILY.                                                                       |
| Name of Well Drilling Contractor: ERMING UMPHRESS & SOMS                                                                       |
| Address: Redrond Tood, PR6                                                                                                     |
| Name of Drilling Equipment Operator: Fils ENE & Charles Ung Pigess                                                             |
|                                                                                                                                |
| INFORMATION ON THE WELL                                                                                                        |
| Completed depth of well: 200 ft. Date well was completed: 9 /20/63                                                             |
| Diameter of outside casing or drive pipe:                                                                                      |
| Diameter of inside casing or liner: Length:                                                                                    |
| Diameter of Screen:Length:Slot size:                                                                                           |
| Type of Well: Drilled  Gravel Pack  Driven  Other                                                                              |
| Use of Well: For home F For industry For public supply Stock                                                                   |
| Method of Drilling: Cable Tools D Rotary Rev. Rotary Det Driven Driven                                                         |
| Static water level in completed well (Distance from ground to water level) 120 ft.                                             |
| Bailer Test: Hours tested Rate3 g.p. Drawdown ft. (Difference between                                                          |
| static level and water  Pumping Test: Hours testedRateg.p.m. Drawdownft. level at end of test)                                 |
| v appliant                                                                                                                     |
| Signature Signature                                                                                                            |
| Some people get  Signature  Signature  Date  POR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET                                 |
| FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET                                                                              |

FORMATIONS (Color,

4 46

of this report must be submitted This Water Well Record form is designed to record the most essential data concerning well. We request that you be as accurate as possible in recording this information as an accurate well log. for well location. planning and development is equally as important space provided ease include all information possible An accurate location of it may be of great water well.

REMARKS

Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana of to the Division a well completion of within thirty days after the

coby

of 1959,

As specified in Chapter 6 of the Acts

# DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 311 WEST WASHINGTON STREET INDIANAPOLIS, INDIANA

WATER WELL RECORD

new hould be

### INFORMATION ON WELL LOCATION

| ounty in which well was drilled: Lawren        | ce Civil Township: Shawswick                                 |
|------------------------------------------------|--------------------------------------------------------------|
|                                                | inge: Newbornest 19                                          |
| (Fill in as compl                              | etely as possible)                                           |
| Describe in your own words the well location   | <b>A</b> .                                                   |
| or distinctive landmarks: Ircutel in           | Cast Volitic on lot 19                                       |
|                                                |                                                              |
|                                                |                                                              |
| , , ,                                          |                                                              |
| Name of owner: James W. + Coa a. Ruse          | cam Address: MR 2 Beford gra,                                |
| Name of Well Brilling Contractor: 580          | e Many gray Sons                                             |
| Address: Bed Ford IN                           | 1 RIPG BOVIS                                                 |
|                                                | tower + Charles El My Hager,                                 |
| INFORMAT                                       | ON ON THE WELL                                               |
| Completed depth of well:ft. Date               | well was completed: 8/4/62                                   |
| Diameter of outside casing or drive pipe:      | Length:                                                      |
| Diameter of inside casing or liner:            | Length:                                                      |
| Diameter of Screen: Length:                    | Slot size:                                                   |
| Type of Well: Drilled [] Gravel Pack           | Driven Other                                                 |
| Use of Well: For home (1) For industry (       | For public supply Stock                                      |
| Method of Drilling: Cable Tools ( Rotary       | Rev. Rotary    Jet    Drīven    Drīven                       |
| Static water level in completed well (Distance | from ground to water level) 1/7 ft.                          |
| Bailer Test: Hours tested Rate g.p             | Drawdown 45 ft. (Difference between                          |
| Pumping Test: Hours tested Rate g.p            | static level and water .m. Drawdownft. level at end of test) |
|                                                |                                                              |
| Sig                                            | nature the greet Heavy his                                   |
| Dat                                            | 15/4/62                                                      |

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

# INSTRUCTIONS

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## DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 609 STATE OFFICE BUILDING INDIANAPOLIS 9, INDIANA

### WATER WELL RECORD

| INFORMATION ON WELL LOCATION                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------|
| County in which well was drilled: Jaunence Civil Township: Shawsweck                                                           |
| Congressional township: Range: Number of section:                                                                              |
| (Fill in as completely as possible)  Describe in your own words the well location with respect to nearby towns, roads, streets |
| or distinctive landmarks: East Oolitec                                                                                         |
|                                                                                                                                |
| 72 iner 2.0. 1554                                                                                                              |
| ·                                                                                                                              |
| Name of owner: Felip Chenault Address: Beford Ind. 1913                                                                        |
| Name of Well Drilling Contractor: Thoras Stulls                                                                                |
| Address: Bedford Ind. PR4                                                                                                      |
| Name of Drilling Equipment Operator: Floyd Stelly                                                                              |
| INFORMATION ON THE WELL                                                                                                        |
| Completed depth of well: 120 ft. Date well was completed: 1964                                                                 |
| Diameter of outside casing or drive pipe: 6 in. Length: 12 ft.                                                                 |
| Diameter of inside casing or liner: 53 Length: 12"                                                                             |
| Diameter of Screen: Length: Slot size:                                                                                         |
| Type of Well: Drilled Gravel Pack Driven Other                                                                                 |
|                                                                                                                                |
| Use of Well: For home For industry For public supply Stock                                                                     |
| Method of Drilling: Cable Tools @ Rotary  Rev. Rotary  Jet  Driven                                                             |
| Static water level in completed well (Distance from ground to water level) 50 ft.                                              |
| Bailer Test: Hours tested 8 Rate / g.p.m. Drawdownft. (Difference between                                                      |
| Static level and water Pumping Test: Hours testedRateg.p.m. Drawdownft. level at end of test)                                  |
|                                                                                                                                |
| Signature Floyd Stuth                                                                                                          |
| Date Oct. 4, 1964 -                                                                                                            |

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

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7

# DIVISION OF WATER RESOURCES OF INDIANA DEPARTMENT OF CONSERVATION 609 STATE OFFICE BUILDING INDIANAPOLIS 9, INDIANA

### WATER WELL RECORD

| INFORMATION ON WELL LOCATION                                                                   |
|------------------------------------------------------------------------------------------------|
| County in which well was drilled: Jaurence Civil Township: Showswich                           |
| Congressional township: Range: Number of section: Fill in as completely as possible)           |
| Describe in your own words the well location with respect to nearby towns, roads, streets      |
| or distinctive landmarks: On state Port 58, I mile ent of                                      |
| Berford. PR3                                                                                   |
|                                                                                                |
| Name of owner: Mrs Joseph a. Myers Address: Bedford 19193                                      |
| Name of Well Drilling Contractor: Floyd Study                                                  |
| Address: Beiled Ind. 1791                                                                      |
| Name of Drilling Equipment Operator: Floyd Stuff                                               |
| INFORMATION ON THE WELL                                                                        |
| Completed depth of well: 144 ft. Date well was completed: Oct. 5, 1964                         |
| Diameter of outside casing or drive pipe: 6 cm. Length: 4D                                     |
| Diameter of inside casing or liner: 55 Length: 40                                              |
| Diameter of Screen:Length:Slot size:                                                           |
| Type of Well: Drilled & Gravel Pack Driven Other                                               |
| Use of Well: For home  For industry  For public supply  Stock  -                               |
| Method of Drilling: Cable Tools @ Rotary  Rev. Rotary  Jet  Driven                             |
| Static water level in completed well (Distance from ground to water level) 60 ft.              |
| Bailer Test: Hours tested 8 Rate 40 g.p.K. Drawdownft. (Difference between                     |
| static level and water  Pumping Test: Hours testedRateg.p.m. Drawdownft. level at end of test) |
| , was a state                                                                                  |
| Signature Floyd Stuty                                                                          |
| Date Oct. 5,1464                                                                               |

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

| WATER WELL LOG                                       |      |     | <del> </del>                                                                                                                       |
|------------------------------------------------------|------|-----|------------------------------------------------------------------------------------------------------------------------------------|
| FORMATIONS (Color, type of material, hardness, etc.) | From | То  | COUNTY: A W                                                                                                                        |
| Rock + class                                         | 0    | 40  | Map: house log id in                                                                                                               |
| Limestone                                            | 40   | 144 | ap:                                                                                                                                |
|                                                      |      |     | ified ated                                                                                                                         |
|                                                      |      |     | Taba K                                                                                                                             |
|                                                      |      |     | Tet &                                                                                                                              |
|                                                      |      |     |                                                                                                                                    |
|                                                      |      |     | FOR ADMINIS' (Well Driller  TWP. SA  SUI'//E'  Date Lo/19 Date Z-106 Date Date                                                     |
|                                                      |      |     | ADMINISTRATIVE USE Driller does not fi  AP. SN RGE. //  AP. SN RGE. //  P. Loc. acce  Lof 19/64 Ground  Depth to  Bedrock  Aquifer |
|                                                      |      |     | ISTRA PER do                                                                                                                       |
|                                                      |      |     | TRATIVE does no does no Loc. Loc. Del Bee Aqu                                                                                      |
|                                                      |      |     | TVE USE OF RECEPTION OF Acception to Bedrock Aquifer                                                                               |
|                                                      |      |     | TVE USE ONLY  not fill out)    //// /// /// ///   /// ///   /// ///                                                                |
|                                                      |      |     | NLY 1 out)  // = 1  ted w/o v  levation bedrock elevation elevation                                                                |
| ·                                                    |      |     | USE ONLY of fill out)  ME & Su  accepted w/o verific  und elevation of the bedrock brock elevation iffer elevation                 |
|                                                      |      |     | Coation Coation                                                                                                                    |
|                                                      |      |     | 3 5                                                                                                                                |
| REMARKS:                                             |      |     | Yes T                                                                                                                              |
| ADPARAS:                                             |      |     | NEZE                                                                                                                               |
|                                                      |      |     | of MI<br>of SI<br>of EI                                                                                                            |
|                                                      |      | L   |                                                                                                                                    |

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### APPENDIX C.2 2000 FISH CONSUMPTION ADVISORY

### Angling Indiana - 2000 FISH CONSUMPTION ADVISORY

Group 1 = Unrestricted consumption (at-risk population - limit consumption to 1 meal/week)\*

<sup>\*</sup>At-risk populations include children under 15, pregnant or nursing women, and those women planning to have children within 6 years

| County Name<br>River, Stream, Lake, or<br>Reservoir Name    | Fish Species       | Fish Length (inches)  | Contaminant ■ = PCBs O = Mercury | Group<br>(1-5) |
|-------------------------------------------------------------|--------------------|-----------------------|----------------------------------|----------------|
| <b>Lawrence County</b>                                      |                    |                       |                                  |                |
| All Indiana Rivers and Streams (unless otherwise specified) | Carp               | 15-20<br>20-25<br>25+ |                                  | 3<br>4<br>5    |
| East Fork of White River                                    | Carp               | 22+                   |                                  | 5              |
|                                                             | Channel Catfish    | 15-21<br>21+          |                                  | 4<br>5         |
|                                                             | Freshwater Drum    | 12-15<br>15+          | :                                | 4<br>5         |
|                                                             | Bigmouth Buffalo   | 18+                   | 0                                | 4              |
|                                                             | Flathead Catfish   | 10-16<br>16+          | :                                | 3 4            |
|                                                             | Largemouth Bass    | 11-14<br>14+          |                                  | 4<br>5         |
|                                                             | River Carpsucker   | 13+                   | •                                | 5              |
|                                                             | Sauger             | 14+                   | ••                               | 3              |
|                                                             | Shorthead Redhorse | 14-16<br>16+          | <b>.</b>                         | 4<br>5         |

Group 2 = Limit consumption to 1 meal/week (at-risk population - limit to 1 meal/month)\*

Group 3 = Limit consumption to 1 meal/month (at-risk population - DO NOT EAT)\*

Group 4 = Limit consumption to 1 meal/2 months (at-risk population - DO NOT EAT)\*

Group 5 = DO NOT EAT

|                    | Smallmouth Buffalo | 15+ | •        | 5 |
|--------------------|--------------------|-----|----------|---|
|                    | Spotted Bass       | 10+ | ■0       | 2 |
|                    | Spotted Sucker     | 17+ | =        | 3 |
|                    | Striped Bass       | 22+ | •        | 4 |
| Pleasant Run Creek | ALL SPECIES        | ALL | <b>#</b> | 5 |

### Table of Contents

### 2000 INDIANA FISH ADVISORY STREAMS AND RIVERS

O = Mercury  $\blacksquare = PCBs$ 

Group 2 = 1 meal/week Group 3 = 1 meal/month
Group 4 = 1 meal/2 Group 5 = DO NOT
months EAT

(Women and children see advisory groups)

| Location                                  | Species            | Fish Size (inches)            | Contaminant | Group              |
|-------------------------------------------|--------------------|-------------------------------|-------------|--------------------|
| All Indiana Ri                            | vers and Streams   |                               |             |                    |
| All Counties (unless otherwise specified) | Carp               | 15-20<br>20-25<br><b>25</b> + |             | 3<br>4<br><b>5</b> |
| Big Blue River                            |                    |                               |             |                    |
| Henry County                              | Creek Chubs        | 6-7<br>7+                     | :           | 3<br>4             |
|                                           | Rock Bass          | 4-7<br>7+                     | :           | 3<br>4             |
|                                           | White Suckers      | 8-10<br>10+                   | :           | 3<br>4             |
| Rush County                               | Creek Chubs        | 6+                            | •           | 3                  |
| Shelby County                             | Black Redhorse     | 11+                           | •           | 3                  |
|                                           | Golden<br>Redhorse | 18+                           | =           | 4                  |

|                   | Northern<br>Hogsucker | 9-10<br>10+  | = | 3<br>4 |
|-------------------|-----------------------|--------------|---|--------|
|                   | Rock Bass             | 4-7          |   | 3      |
| Johnson<br>County | Longear<br>Sunfish    | 5+           |   | 3      |
|                   | Northern<br>Hogsucker | 8-10<br>10+  | : | 3 4    |
|                   | Rock Bass             | 7+           | • | 3      |
|                   | Smallmouth<br>Bass    | 5-8<br>8+    | : | 3 4    |
| Big Pine Creek    |                       |              |   |        |
| Warren County     | Black Redhorse        | 13-16<br>16+ | 0 | 2 3    |
|                   | Channel<br>Catfish    | 12-17        | • | 2      |
|                   | Smallmouth<br>Bass    | 10-11<br>11+ | : | 2 3    |
| Big Raccoon C     | reek                  |              |   |        |
| Parke County      | Carp                  | 19-22<br>22+ | 0 | 2 3    |
|                   | Black Redhorse        | 11-17<br>17+ | 0 | 2 3    |
|                   | Channel<br>Catfish    | 17-22<br>22+ |   | 3<br>4 |
|                   | Spotted Bass          | 10-14<br>14+ | 0 | 2 3    |

### Big Walnut Creek

| Putnam County      | Black Redhorse        | 11-14<br>14+ | <u>o</u> | 2 3    |
|--------------------|-----------------------|--------------|----------|--------|
|                    | River<br>Carpsucker   | 9-14<br>14+  | O<br>O   | 2 3    |
|                    | Spotted Bass          | 9-12<br>12+  | 0        | 2 3    |
| Blue River         |                       |              |          |        |
| Harrison<br>County | Carp                  | 28-29<br>29+ | 0        | 2 3    |
|                    | Channel<br>Catfish    | 15+          | •        | 3      |
|                    | Rock Bass             | 5-7<br>7+    |          | 2 3    |
|                    | Shorthead<br>Redhorse | 14-17<br>17+ | :        | 3<br>4 |
| Brandywine Cr      | eek                   |              |          |        |
| Hancock<br>County  | Northern<br>Hogsucker | 8-11<br>11+  | 0        | 2 3    |
| Buck Creek         |                       |              |          |        |
| Delaware<br>County | Longear<br>Sunfish    | 5-6<br>6+    |          | 3 4    |
|                    | Rock Bass             | 6-9<br>9+    |          | 3<br>4 |
|                    | Smallmouth<br>Bass    | 8-11<br>11+  |          | 3<br>4 |

|   |     | C   | . 1. |
|---|-----|-----|------|
| U | еаг | Cre | ек   |

| Monroe<br>County             | ALL<br>SPECIES        | ALL             | =      | 5      |
|------------------------------|-----------------------|-----------------|--------|--------|
| Deer Creek                   |                       |                 |        |        |
| Carroll County               | Black Redhorse        | 13-19<br>19+    | 0      | 2 3    |
|                              | Carp                  | Up to 19<br>19+ | ¥<br># | 2 3    |
|                              | Carpsucker            | 15-17<br>17+    | 0      | 2 3    |
|                              | Smallmouth<br>Bass    | 10<br>10+       | :      | 2 3    |
| East Fork of W               | hite Lick Creek       |                 |        |        |
| Hendricks<br>County          | Creek Chub            | 6-9<br>9+       | #<br># | 2 3    |
|                              | Northern<br>Hogsucker | 8-11<br>11+     | •      | 2 3    |
|                              | Yellow<br>Bullhead    | 8-10<br>10+     | :      | 2 3    |
| East Fork of the White River |                       |                 |        |        |
| Bartholomew<br>County        | Golden<br>Redhorse    | 8-13<br>13+     | :      | 2 3    |
|                              | Silver<br>Redhorse    | 16-18<br>18+    | =      | 3<br>4 |

| Jackson<br>County  | Freshwater<br>Drum    | 17-18<br>18+         | 0 | 2 3    |
|--------------------|-----------------------|----------------------|---|--------|
|                    | Golden<br>Redhorse    | 14-16<br>16+         | = | 3 4    |
|                    | Silver<br>Redhorse    | 20-22<br>22+         | : | 2 3    |
|                    | Smallmouth<br>Buffalo | 19-26<br>26+         | : | 3<br>4 |
|                    | Bigmouth<br>Buffalo   | 18+                  |   | 3      |
| Lawrence<br>County | Carp                  | 22+                  |   | 5      |
|                    | Channel<br>Catfish    | 15-21<br><b>21</b> + |   | 4<br>5 |
|                    | Freshwater<br>Drum    | 12-15<br><b>15</b> + |   | 4<br>5 |
|                    | Bigmouth<br>Buffalo   | 18+                  | 0 | 4      |
|                    | Flathead<br>Catfish   | 10-16<br>16+         | • | 3 4    |
|                    | Largemouth<br>Bass    | 11-14<br><b>14</b> + | - | 4<br>5 |
|                    | River<br>Carpsucker   | 13+                  | • | 5      |
|                    | Sauger                | 14+                  |   | 3      |
|                    | Shorthead<br>Redhorse | 14-16<br><b>16</b> + |   | 4<br>5 |
|                    | Smallmouth<br>Buffalo | 15+                  | • | 5      |

|                                         | Spotted Bass          | 10+                  |        | 2      |
|-----------------------------------------|-----------------------|----------------------|--------|--------|
|                                         | Spotted Sucker        | 17+                  | •      | 3      |
|                                         | Striped Bass          | 22+                  |        | 4      |
| Martin County                           | Channel<br>Catfish    | 12-14<br>14+         | #<br>= | 3<br>4 |
|                                         | Freshwater<br>Drum    | 10-12<br>12+         |        | 3<br>4 |
| ·                                       | Longear<br>Sunfish    | 6+                   | •      | 3      |
|                                         | Shorthead<br>Redhorse | 14-16<br><b>16</b> + | •      | 4<br>5 |
|                                         | Smallmouth<br>Buffalo | 19+                  | •      | 3      |
| East Fork of W                          | hitewater River       |                      |        |        |
| Wayne County                            | Channel<br>Catfish    | 12-18<br>18+         | :      | 3<br>4 |
|                                         | Smallmouth<br>Bass    | 8-11<br><b>11</b> +  | :      | 4<br>5 |
| Union County                            | Creek Chub            | 4-5<br>5+            | O<br>O | 2 3    |
| Eel River (West Fork White River Basin) |                       |                      |        |        |
| Greene County                           | Bigmouth<br>Buffalo   | 18-20<br>20+         | O<br>O | 2 3    |
|                                         | Channel<br>Catfish    | 18+                  |        | 2      |

|                  | Freshwater<br>Drum    | 14-16<br>16+ | 0      | 2 3    |
|------------------|-----------------------|--------------|--------|--------|
|                  | Sauger                | 18+          | •      | 3      |
| Eel River (Upp   | er Wabash River       | Basin)       |        |        |
| Whitley County   | Bluegill              | 4-6<br>6+    |        | 3 4    |
|                  | Carp                  | 11-20<br>20+ |        | 2 3    |
|                  | Northern<br>Hogsucker | 7-10<br>10+  |        | 3<br>4 |
|                  | Rock Bass             | 7-8<br>8+    | O<br>O | 2 3    |
|                  | White Sucker          | 8-12<br>12+  | :      | 2 3    |
| Wabash<br>County | Northern<br>Hogsucker | 8+           | •      | 3      |
| Miami County     | Northern<br>Hogsucker | 9-12<br>12+  | O<br>O | 2 3    |
|                  | Rock Bass             | 6-7<br>7+    | O<br>O | 2 3    |
|                  | Smallmouth<br>Bass    | 10+          |        | 3      |
| Cass County      | Northern<br>Hogsucker | 8-11<br>11+  | 0      | 2 3    |
|                  | Rock Bass             | 7-9<br>9+    | 0      | 2 3    |

### Elkhart River

| Elkhart County       | Rock Bass          | 7-9<br>9+            |        | 3 4         |
|----------------------|--------------------|----------------------|--------|-------------|
|                      | Smallmouth<br>Bass | 5-6                  | •      | 3           |
|                      | White Sucker       | 8-13<br>13+          |        | 3 4         |
| Elliot Ditch         |                    |                      |        |             |
| Tippecanoe<br>County | ALL<br>SPECIES     | ALL                  | •      | 5           |
| Fall Creek           |                    |                      |        |             |
| Madison<br>County    | Black Redhorse     | 13-17<br>17+         | 0      | 2 3         |
|                      | Carp               | 19-22<br>22+         |        | 3 4         |
|                      | Channel<br>Catfish | Up to 22<br>22+      |        | 3<br>4      |
|                      | Rock Bass          | 5-7<br>7+            |        | 2 3         |
|                      | Smallmouth<br>Bass | 6-14<br>15-17<br>17+ | 0      | 2<br>3<br>4 |
|                      | White Sucker       | 12-16<br>16+         | 0      | 2 3         |
| Hamilton<br>County   | Carp               | 16-23<br>23+         |        | 2 3         |
|                      | Largemouth<br>Bass | 12-16<br>16+         | O<br>O | 2 3         |

### Flatrock River

| Rush County         | Northern<br>Hogsucker | 8-13<br>13+          | O<br>O | 2 3    |  |  |
|---------------------|-----------------------|----------------------|--------|--------|--|--|
|                     | Longear<br>Sunfish    | 4-6<br>. 6+          | 0      | 2 3    |  |  |
|                     | Rock Bass             | 5-8<br>8+            | 0      | 2 3    |  |  |
| Shelby County       | Rock Bass             | 5-8<br>8+            |        | 2 3    |  |  |
| Grassy Creek        |                       |                      |        |        |  |  |
| Kosciusko<br>County | Largemouth<br>Bass    | Up to 14<br>14+      | 0      | 2 3    |  |  |
| G 'eat Miami F      | G 'eat Miami River    |                      |        |        |  |  |
| Dearborn<br>County  | Carp                  | 16-20<br><b>20</b> + | :      | 4<br>5 |  |  |
|                     | Channel<br>Catfish    | 15+                  | •      | 5      |  |  |
|                     | Largemouth<br>Bass    | 15-18<br>18+         |        | 2 3    |  |  |
|                     | White Crappie         | 8-11<br>11+          | :      | 3<br>4 |  |  |
| Greens Fork         |                       |                      |        |        |  |  |
| Wayne County        | Creek Chub            | 7+                   | 0      | 2      |  |  |
| Honey Creek         |                       |                      |        |        |  |  |
|                     |                       |                      |        |        |  |  |

| Iroquois River       | •                     |                       |   |             |
|----------------------|-----------------------|-----------------------|---|-------------|
| Jasper County        | Carp                  | 28+                   | • | 3           |
| Newton County        | Carp                  | 28+                   | • | 3           |
| Juday Creek          |                       |                       |   |             |
| St. Joseph<br>County | White Sucker          | 12-17<br>17+          | = | 2 3         |
| Kankakee Rive        | er                    |                       |   |             |
| LaPorte<br>County    | Bigmouth<br>Buffalo   | 16-22<br>22+          | 0 | 2 3         |
|                      | Channel<br>Catfish    | 17+                   | - | 3           |
|                      | Northern Pike         | 15+                   |   | 2           |
|                      | Quillback             | 15-16                 | • | 3           |
|                      | Shorthead<br>Redhorse | 13-17<br>17+          |   | 3 4         |
| Lake County          | Bigmouth<br>Buffalo   | 18-24<br>24+          |   | 2 3         |
|                      | Carp                  | 20-22<br>22+          | : | 2 3         |
|                      | Northern Pike         | 31+                   |   | 2           |
|                      | Quillback             | 13-15<br>15+          | • | 2 3         |
|                      | Shorthead<br>Redhorse | 14-16<br>16-19<br>19+ | : | 2<br>3<br>4 |

|                      | Silver<br>Redhorse    | 18-20<br>20+                           | :             | 2 3              |
|----------------------|-----------------------|----------------------------------------|---------------|------------------|
|                      | Smallmouth<br>Buffalo | 18-22<br>22-28<br>28-32<br><b>32</b> + |               | 2<br>3<br>4<br>5 |
| Killbuck Creel       | k                     |                                        |               |                  |
| Madison<br>County    | Largemouth<br>Bass    | 16+                                    | O             | 3                |
|                      | Longear<br>Sunfish    | 5-6<br>6+                              | :             | 3 4              |
| Kokomo Creek         | K                     |                                        |               |                  |
| Howard<br>County     | ALL<br>SPECIES        | ALL                                    | •             | 5                |
| Little Blue Riv      | er                    |                                        |               |                  |
| Shelby County        | Northern<br>Hogsucker | 8-11<br>11+                            | :             | 2 3              |
| Little Mississin     | newa River            |                                        |               |                  |
| Randolph<br>County   | ALL<br>SPECIES        | ALL                                    | •             | 5                |
| Little Sugar Cı      | reek/Walnut Fork      | ** (Middle V                           | Vabash Basin) |                  |
| Montgomery<br>County | ALL<br>SPECIES        | ALL                                    | <b>I</b> O    | 5                |

\*\* Fish tissue samples have not been taken from Walnut Fork. However, fish tissue samples taken from Little Sugar Creek (Montgomery Co.) and Sugar Creek (Montgomery Co., I-74 to SR-32) are at No Consumption advisory levels. These two bodies of water are connected by Walnut Fork in Montgomery Co., approximately one river mile in length. Based on these data, a No Consumption advisory will be placed on Walnut Fork to protect human health. Future sampling of Walnut Fork is planned for more comprehensive results.

### Little Sugar Creek (East Fork White River Basin)

| Hancock<br>County  | Creek Chub            | ALL          |   | 3      |  |
|--------------------|-----------------------|--------------|---|--------|--|
| Maumee River       | r                     |              |   |        |  |
| Allen County       | Channel<br>Catfish    | 14-16<br>16+ | = | 3<br>4 |  |
|                    | Largemouth<br>Bass    | 9+           | • | 3      |  |
|                    | River Redhorse        | 12-14<br>14+ |   | 3<br>4 |  |
|                    | Rock Bass             | 7-8<br>8+    |   | 3 4    |  |
|                    | Sauger                | 15-24<br>24+ |   | 2 3    |  |
|                    | Shorthead<br>Redhorse | 14-16<br>16+ |   | 3<br>4 |  |
| Mississinewa F     | Mississinewa River    |              |   |        |  |
| Randolph<br>County | Carp                  | 17+          | • | 5      |  |
|                    | Channel<br>Catfish    | 15+          | • | 5      |  |

|                    | Green Sunfish      | 3+           | • | 5   |
|--------------------|--------------------|--------------|---|-----|
|                    | Longear<br>Sunfish | 3-5<br>5+    | : | 3 4 |
|                    | White Crappie      | 8-10<br>10+  |   | 3 4 |
| Delaware<br>County | Bluegill           | 6+           |   | 2   |
|                    | Green Sunfish      | 4-6<br>6+    | : | 2 3 |
|                    | Rock Bass          | 6-7<br>7+    |   | 2 3 |
| Grant County       | Channel<br>Catfish | 11-13<br>13+ |   | 2 3 |
|                    | Largemouth<br>Bass | 8-11<br>11+  | : | 2 3 |
|                    | White Crappie      | 8-11<br>11+  | 0 | 2 3 |
|                    | Carp               | 14-19        | = | 3   |
| Miami County       | Carp               | 19-20        | • | 2   |
| Muddy Fork o       | f Sand Creek       |              |   |     |
| Decatur<br>County  | Black<br>Redhorse  | 12-15<br>15+ | 0 | 2 3 |
|                    | Largemouth<br>Bass | 6-11<br>11+  | : | 3 4 |

|                      | Northern<br>Hogsucker | 6-10<br>10+  | •      | 3 4    |
|----------------------|-----------------------|--------------|--------|--------|
|                      | White Sucker          | 10-13<br>13+ | O<br>O | 2 3    |
| Muscatatuck 1        | River                 |              |        |        |
| Washington<br>County | Bigmouth<br>Buffalo   | 17-26<br>26+ |        | 2 3    |
|                      | Smallmouth<br>Buffalo | 22-23<br>23+ |        | 2 3    |
| Otter Creek          |                       |              |        |        |
| Vigo County          | Black<br>Redhorse     | 10-14<br>14+ |        | 2 3    |
|                      | Golden<br>Redhorse    | 14+          |        | 2      |
|                      | Spotted Bass          | 8-13<br>13+  | 0      | 3<br>4 |
| Patoka River         |                       |              |        |        |
| Dubois<br>County     | Bigmouth<br>Buffalo   | 16-21<br>21+ | 0      | 2 3    |
|                      | Carp                  | 15-20<br>20+ | =      | 2 3    |
|                      | Freshwater<br>Drum    | 13-17<br>17+ | 0      | 2 3    |

| Pike County           | Bigmouth<br>Buffalo | 16-21<br>21+ | 0      | 2 3    |
|-----------------------|---------------------|--------------|--------|--------|
|                       | Freshwater<br>Drum  | 21-22<br>22+ |        | 2 3    |
| Gibson<br>County      | Black Buffalo       | 24-25<br>25+ |        | 2 3    |
|                       | Channel<br>Catfish  | 16-18<br>18+ |        | 2 3    |
|                       | Flathead<br>Catfish | 12-18<br>18+ |        | 2 3    |
|                       | Freshwater<br>Drum  | 14-16<br>16+ | 0      | 2 3    |
| Pigeon Creek          | (St. Joseph River F | Basin)       |        |        |
| Steuben<br>County     | Carp                | 21-25<br>25+ | :      | 3<br>4 |
|                       | White Sucker        | 11-14<br>14+ | )<br>) | 2 3    |
| Pigeon Creek          | (Ohio River Basin)  |              |        |        |
| Vanderburgh<br>County | Channel<br>Catfish  | 15-18<br>18+ | :      | 4<br>5 |
|                       | Largemouth<br>Bass  | 13+          | •      | 2      |
|                       | White Crappie       | 12+          | =      | 2      |

Pipe Creek

| Madison<br>County               | Longear<br>Sunfish | 4+           | • | 2      |
|---------------------------------|--------------------|--------------|---|--------|
|                                 | White Sucker       | 10-15<br>15+ |   | 2 3    |
| Pleasant Run                    | Creek              |              |   |        |
| Lawrence<br>County              | ALL<br>SPECIES     | ALL          |   | 5      |
| Richland Cree                   | ek                 |              |   |        |
| Monroe<br>County                | Creek Chub         | 6-7<br>7+    | : | 3<br>4 |
|                                 | Rock Bass          | 4-8<br>8+    |   | 2 3    |
|                                 | White Sucker       | 8-11<br>11+  |   | 3<br>4 |
| Owen County                     | Creek Chub         | 5-9<br>9+    |   | 3<br>4 |
|                                 | Longear<br>Sunfish | 4-6<br>6+    |   | 2 3    |
|                                 | Rock Bass          | 6-7<br>7+    |   | 2 3    |
| Salt Creek                      |                    |              |   |        |
| Monroe County **                | Bluegill           | 7+           | • | 2      |
| (tailwaters of Monroe Reservoir | Freshwater<br>Drum | 16+          | = | 5      |

<sup>\*\*</sup> This listing is based on limited data. It should be noted that fish migrate. Fish not sampled from these waters may migrate from the confluence of Clear Creek and Salt Creek, 1.3 miles south. Those water bodies have No Consumption advisories. Future sampling of the Salt Creek tailwaters below the Monroe Reservoir Dam is planned for more comprehensive results.

### Sand Creek

| Decatur<br>County | Black<br>Redhorse     | 14+          | 0      | 2      |
|-------------------|-----------------------|--------------|--------|--------|
|                   | Northern<br>Hogsucker | 10-12<br>12+ | :      | 3<br>4 |
|                   | Spotted<br>Sucker     | 13-14<br>14+ | O<br>O | 2 3    |
|                   | White Sucker          | 8-11<br>11+  | O<br>O | 2 3    |

|                    | Yellow<br>Bullhead | 10-12<br>12+ | •        | 3 4    |
|--------------------|--------------------|--------------|----------|--------|
| Jennings<br>County | Rock Bass          | 6-9<br>9+    | 0        | 2 3    |
|                    | Spotted Bass       | 8-12<br>12+  | 0        | 2 3    |
|                    | Yellow<br>Bullhead | 8-11<br>11+  | 0        | 2 3    |
| Silver Creek       |                    |              |          |        |
| Union County       | Creek Chub         | 6-7<br>7+    | 0        | 2 3    |
| Floyd County       | Carp               | 21-25<br>25+ | <b>E</b> | 3 4    |
|                    | Channel<br>Catfish | 17-20<br>20+ | :        | 3<br>4 |
|                    | Freshwater<br>Drum | 15-18<br>18+ |          | 2 3    |
|                    | Smallmouth<br>Bass | 15+          |          | 2      |
| Stoney Creek       |                    |              |          |        |
| Hamilton<br>County | ALL<br>SPECIES     | ALL          | •        | 5      |
| Stouts Creek       |                    |              |          |        |
| Monroe<br>County   | Creek Chubs        | 4-8<br>8+    |          | 2 3    |

### St. Joseph River (Maumee River Basin)

| Allen County      | Black Crappie         | 9-11<br>11+                   | =        | 3 4                |
|-------------------|-----------------------|-------------------------------|----------|--------------------|
|                   | Black<br>Redhorse     | 13-16<br>16+                  | :        | 3<br>4             |
|                   | Channel<br>Catfish    | 20-24<br>25-26<br><b>26</b> + |          | 3<br>4<br><b>5</b> |
|                   | Golden<br>Redhorse    | 12-13<br>13+                  |          | 3<br>4             |
|                   | Rock Bass             | 7-9<br>9+                     | :        | 3<br>4             |
| St. Joseph Riv    | er (St. Joseph Riv    | er Basin)                     |          |                    |
| Elkhart<br>County | Black<br>Redhorse     | 13-17<br>17+                  | 0        | 2 3                |
|                   | Channel<br>Catfish    | 20-24<br>25-26<br><b>26</b> + | :        | 3<br>4<br>5        |
|                   | Golden<br>Redhorse    | 13-25<br>25+                  | :        | 3<br>4             |
|                   | Largemouth<br>Bass    | 11-12<br>12+                  | <u> </u> | 2 3                |
|                   | Rock Bass             | 7-9<br>9+                     | :        | 3<br>4             |
|                   | Shorthead<br>Redhorse | 14-17<br>17+                  |          | 3<br>4             |

|                      | Smallmouth<br>Bass    | 9-13<br>13+                   | <u> </u> | 2 3                |
|----------------------|-----------------------|-------------------------------|----------|--------------------|
|                      | Walleye               | 16-17<br>17+                  | <u>o</u> | 3<br>4             |
| St. Joseph<br>County | Black<br>Redhorse     | 14-17<br>17+                  |          | 3 4                |
|                      | Carp                  | 20+                           |          | 5                  |
|                      | Channel<br>Catfish    | 22+                           |          | 4                  |
|                      | Golden<br>Redhorse    | 13-22<br>22+                  | :        | 3<br>4             |
|                      | Largemouth<br>Bass    | 15-16<br>16-18<br><b>18</b> + |          | 3<br>4<br><b>5</b> |
|                      | Shorthead<br>Redhorse | 15-19<br>19+                  |          | 3<br>4             |
|                      | Smallmouth<br>Bass    | 7-9<br>9+                     |          | 2 3                |
|                      | Steelhead             | 25-26<br>26+                  | =        | 3<br>4             |
|                      | Quillback             | 18+                           | •        | 3                  |
|                      | White Sucker          | 14-16<br>16+                  |          | 3 4                |

St. Mary's River

| Allen County      | Bigmouth<br>Buffalo | 20-25<br>25+    |        | 3<br>4 |
|-------------------|---------------------|-----------------|--------|--------|
|                   | Black<br>Redhorse   | 12-15<br>15+    |        | 2 3    |
|                   | Channel<br>Catfish  | 13-15<br>15+    | :      | 3<br>4 |
|                   | Largemouth<br>Bass  | Up to 15<br>15+ |        | 3<br>4 |
|                   | Quillback           | 9-14<br>14+     |        | 2 3    |
|                   | Silver<br>Redhorse  | 17+             |        | 3      |
|                   | White Suckers       | 8-11<br>11+     |        | 2 3    |
| Sugar Creek (     | East Fork White R   | iver Basin)     |        |        |
| Hancock<br>County | Black<br>Redhorse   | 11-13<br>13+    | •<br>• | 2 3    |
| Johnson<br>County | Carp                | 27+             | •      | 3      |
| ·                 | Flathead<br>Catfish | 17+             | •      | 3      |
|                   | Spotted Bass        | 13+             | •      | 2      |

Sugar Creek (Middle Wabash River Basin)

Montgomery County

| (Crawfordsville<br>174 - SR32) | ALL<br>SPECIES     | ALL                  |   | 5           |
|--------------------------------|--------------------|----------------------|---|-------------|
| (Shades State<br>Park)         | Black<br>Redhorse  | 14-16<br><b>16</b> + | : | 4<br>5      |
|                                | Rock Bass          | 7+                   | = | 3           |
|                                | Smallmouth<br>Bass | 7-11<br>11-15<br>15+ | : | 2<br>3<br>4 |
| Parke County                   | Black<br>Redhorse  | 12-16<br>16+         | = | 3 4         |
|                                | Smallmouth<br>Bass | 8-11<br>11+          |   | 2 3         |
|                                | Channel<br>Catfish | 12-13<br>13+         |   | 3<br>4      |
| Tippecanoe Ri                  | ver                |                      |   |             |
| Kosciusko<br>County            | Bluegill           | 6+                   | O | 2           |
|                                | Redhorse           | 17-18<br>18+         | • | 3<br>4      |
|                                | River<br>Redhorse  | 17+                  | 0 | 3           |
|                                | Rock Bass          | 5+                   | • | 2           |
| Marshall<br>County             | Rock Bass          | 9-10<br>10+          | O | 2 3         |

| Fulton<br>County  | Channel<br>Catfish    | 12-23<br>23+ |   | 2 3 |
|-------------------|-----------------------|--------------|---|-----|
|                   | Northern<br>Hogsucker | 7-12<br>12+  | 0 | 2 3 |
|                   | Spotted<br>Suckers    | 13+          | 0 | 2   |
|                   | Golden<br>Redhorse    | 15-16<br>16+ |   | 2 3 |
|                   | Carp                  | 30-31        |   | 2   |
| Pulaski<br>County | Black<br>Redhorse     | 16-17<br>17+ | : | 3 4 |
|                   | Channel<br>Catfish    | 11-12<br>12+ |   | 2 3 |
|                   | Longear<br>Sunfish    | 3-5<br>5+    | 0 | 2 3 |
|                   | Northern<br>Hogsucker | 13-15<br>15+ | 0 | 2 3 |
| Carroll<br>County | Carp                  | 21-22        | • | 2   |
| Trail Creek       |                       |              |   |     |
| LaPorte<br>County | Carp                  | 23-25        | • | 5   |
| Wabash River      |                       |              |   |     |
| Adams County      | Carp                  | 17-19        |   | 2   |

| Wells County         | Channel<br>Catfish    | 13-19<br>19+         |          | 3<br>4 |
|----------------------|-----------------------|----------------------|----------|--------|
|                      | Golden<br>Redhorse    | 18+                  | 0        | 2      |
|                      | Rock Bass             | 7-10<br>10+          | O<br>O   | 2 3    |
|                      | Sauger                | 13-19<br><b>19</b> + | :        | 4<br>5 |
|                      | Smallmouth<br>Buffalo | 25+                  | •        | 5      |
|                      | White Crappie         | 5-7<br>7+            | 0        | 2 3    |
|                      | Yellow Perch          | 6-7<br>7+            | <b>O</b> | 2 3    |
| Huntington<br>County | Blue Sucker           | 21-26<br>26+         | :        | 3<br>4 |
|                      | Channel<br>Catfish    | 13-16<br>16+         |          | 3<br>4 |
|                      | Freshwater<br>Drum    | 12-18<br>18+         | :        | 3<br>4 |
|                      | Largemouth<br>Bass    | 12-14<br>14+         | O<br>O   | 3<br>4 |
|                      | Carp                  | 18-21                |          | 2      |
|                      | Sauger                | 13-19<br><b>19</b> + | =        | 4<br>5 |
|                      | Smallmouth<br>Buffalo | 25+                  | •        | 5      |

| Wabash<br>County | Black<br>Redhorse     | 16-19<br>19+         | 0      | 2 3    |
|------------------|-----------------------|----------------------|--------|--------|
|                  | Blue Sucker           | 21-26<br>26+         | =      | 3 4    |
|                  | Channel<br>Catfish    | 13-19<br>19+         | 0      | 2 3    |
|                  | Freshwater<br>Drum    | 12-18<br>18+         | :      | 3<br>4 |
|                  | Quillback             | 12-16<br>16+         | O<br>O | 2 3    |
|                  | Sauger                | 13-19<br><b>19</b> + | •      | 4<br>5 |
|                  | Smallmouth<br>Buffalo | 25+                  | •      | 5      |
|                  | White Bass            | 11-21<br>21+         |        | 3<br>4 |
| Miami County     | Blue Sucker           | 21-26<br>26+         |        | 3<br>4 |
|                  | Channel<br>Catfish    | 13-19<br>19+         |        | 2 3    |
|                  | Freshwater<br>Drum    | 12-18<br>18+         |        | 3<br>4 |
|                  | Quillback             | 13-17<br>17+         | 0      | 2 3    |
|                  | Sauger                | 13-19<br><b>19</b> + |        | 4<br>5 |

|                   | Smallmouth<br>Buffalo | 25+          | •        | 5      |
|-------------------|-----------------------|--------------|----------|--------|
| Cass County       | Black<br>Redhorse     | 16-19<br>19+ | 0        | 2 3    |
|                   | Blue Sucker           | 21-26<br>26+ | :        | 3<br>4 |
|                   | Channel<br>Catfish    | 13-19<br>19+ |          | 2 3    |
|                   | Freshwater<br>Drum    | 12-18<br>18+ | =        | 3<br>4 |
|                   | Quillback             | 13-19<br>19+ | 0        | 2 3    |
|                   | Sauger                | 13-19<br>19+ |          | 2 3    |
|                   | Smallmouth<br>Bass    | 12-16<br>16+ | 0        | 2 3    |
|                   | Smallmouth<br>Buffalo | 25+          |          | 5      |
|                   | Walleye               | 16+          | O        | 2      |
| Carroll<br>County | Blue Sucker           | 21-26<br>26+ |          | 3<br>4 |
|                   | Channel<br>Catfish    | 13-19<br>19+ |          | 2 3    |
|                   | Freshwater<br>Drum    | 12-18<br>18+ | <b>=</b> | 3<br>4 |
|                   | River<br>Redhorse     | 23-26<br>26+ | 0        | 2 3    |

|                      | Sauger                | 13-19<br><b>19</b> +  |   | 4<br>5 |
|----------------------|-----------------------|-----------------------|---|--------|
|                      | Smallmouth<br>Buffalo | 25+                   | • | 5      |
| Tippecanoe<br>County | Bigmouth<br>Buffalo   | 17-20<br>20+          |   | 2 3    |
|                      | Blue Sucker           | 21 <b>-</b> 26<br>26+ | : | 3<br>4 |
|                      | Channel<br>Catfish    | 16+                   |   | 5      |
|                      | Flathead<br>Catfish   | 15-24<br>24+          |   | 2 3    |
|                      | Freshwater<br>Drum    | 12-18<br>18+          |   | 3<br>4 |
|                      | Golden<br>Redhorse    | 20+                   | • | 3      |
|                      | Largemouth<br>Bass    | 9-14<br>14+           | 0 | 2 3    |
|                      | Quillback             | 13-19<br><b>19</b> +  | : | 4<br>5 |
|                      | River<br>Redhorse     | 16-19<br>19+          |   | 2 3    |
|                      | Sauger                | 13-19<br><b>19</b> +  |   | 4<br>5 |
|                      | Paddlefish            | 34+                   | - | 3      |

|                      | Smallmouth<br>Bass    | 9-12<br>12+          | :      | 3<br>4 |
|----------------------|-----------------------|----------------------|--------|--------|
|                      | Smallmouth<br>Buffalo | 25+                  | •      | 5      |
|                      | White Bass            | 6-11<br>11+          | O<br>O | 2 3    |
| Fountain<br>County   | Blue Sucker           | 21-26<br>26+         | :      | 3<br>4 |
|                      | Channel<br>Catfish    | 13-19<br>19+         |        | 3<br>4 |
|                      | Freshwater<br>Drum    | 12-18<br>18+         | :      | 3<br>4 |
|                      | Sauger                | 13-19<br><b>19</b> + |        | 4<br>5 |
|                      | Smallmouth<br>Buffalo | 25+                  | •      | 5      |
| Vermillion<br>County | Bigmouth<br>Buffalo   | 18+                  | •      | 3      |
| Vigo County          | Bigmouth<br>Buffalo   | 21-24<br>24+         | :      | 3<br>4 |
|                      | Blue Sucker           | 21-26<br>26+         |        | 3<br>4 |
|                      | Carpsucker            | 10+                  |        | 2      |
|                      | Channel<br>Catfish    | 13-19<br>19+         |        | 3<br>4 |

|                    | Flathead<br>Catfish    | 10-20<br>20+         |   | 2 3    |
|--------------------|------------------------|----------------------|---|--------|
|                    | Freshwater<br>Drum     | 12-18<br>18+         | : | 3<br>4 |
|                    | Sauger                 | 13-19<br><b>19</b> + | - | 4<br>5 |
|                    | Shovelnose<br>Sturgeon | 30+                  | • | 3      |
|                    | Smallmouth<br>Buffalo  | 25+                  |   | 5      |
|                    | White Bass             | 13+                  |   | 3      |
|                    | Wiper                  | 10-12<br>12+         | = | 3<br>4 |
| Sullivan<br>County | Blue Sucker            | 21-26<br>26+         | : | 3<br>4 |
|                    | Channel<br>Catfish     | 13-19<br>19+         |   | 3 4    |
|                    | Flathead<br>Catfish    | 16-31<br>31+         |   | 3 4    |
|                    | Freshwater<br>Drum     | 12-18<br>18+         | : | 2 3    |
|                    | Sauger                 | 13-19<br><b>19</b> + | : | 4<br>5 |
|                    | Smallmouth<br>Buffalo  | 25+                  |   | 5      |

| Knox County      | Blue Sucker           | 21-26<br>26+         | • | 3<br>4 |
|------------------|-----------------------|----------------------|---|--------|
|                  | Channel<br>Catfish    | 13-19<br>19+         | = | 2 3    |
|                  | Freshwater<br>Drum    | 12-18<br>18+         |   | 3<br>4 |
|                  | Sauger                | 13-19<br><b>19</b> + | = | 4<br>5 |
|                  | Smallmouth<br>Buffalo | 25+                  | • | 5      |
| Gibson<br>County | Blue Sucker           | 21-26<br>26+         | : | 3 4    |
|                  | Channel<br>Catfish    | 13-19<br>19+         |   | 2 3    |
|                  | Freshwater<br>Drum    | 12-18<br>18+         |   | 2 3    |
|                  | Sauger                | 13-19<br><b>19</b> + | : | 4<br>5 |
|                  | Smallmouth<br>Buffalo | 25+                  | = | 5      |
| Posey County     | Blue Sucker           | 21-26<br>26+         | : | 3<br>4 |
|                  | Channel<br>Catfish    | 13-19<br>19+         | = | 2 3    |
|                  | Flathead<br>Catfish   | 11-19<br>19+         |   | 2 3    |

|                      | Sauger                | 13-19<br><b>19</b> +  | : | 4<br>5      |
|----------------------|-----------------------|-----------------------|---|-------------|
|                      | Smallmouth<br>Buffalo | 25+                   | • | 5           |
|                      | White Bass            | 11-21<br>21+          |   | 3<br>4      |
|                      | Wiper                 | 13+                   | • | 3           |
| Wea Creek            |                       |                       |   |             |
| Tippecanoe<br>County | ALL<br>SPECIES        | ALL                   | • | 5           |
| West Fork of         | the White River       |                       |   |             |
| Randolph<br>County   | Bluegill              | 6+                    | 0 | 2           |
|                      | Carp                  | 15-21<br>21-25<br>25+ | • | 2<br>3<br>4 |
|                      | Carpsucker            | 13-18<br>18+          | : | 3<br>4      |
|                      | Channel<br>Catfish    | 14-16<br>16+          | : | 3<br>4      |
|                      | Creek Chub            | 7-8<br>8+             |   | 2 3         |
|                      | Largemouth<br>Bass    | 8+                    | • | 2           |
|                      | Longear<br>Sunfish    | 3-5<br>5+             | : | 2 3         |

|                    | Spotted<br>Sucker  | 11-13<br>13+  | :        | 3 4 |
|--------------------|--------------------|---------------|----------|-----|
|                    | White Sucker       | 4-7<br>7+     | <u>o</u> | 2 3 |
| Delaware<br>County | Black<br>Bullhead  | Up to 9<br>9+ | :        | 2 3 |
|                    | Carpsucker         | 13-18<br>18+  | :        | 3 4 |
|                    | Channel<br>Catfish | 14-16<br>16+  | :        | 3 4 |
|                    | Largemouth<br>Bass | 9-15<br>15+   |          | 3 4 |
|                    | Smallmouth<br>Bass | 13-15<br>15+  |          | 2 3 |
|                    | Spotted<br>Sucker  | 11-13<br>13+  | :        | 3 4 |
| Madison<br>County  | Green Sunfish      | 4-6<br>6+     | :        | 2 3 |
|                    | Longear<br>Sunfish | 5+            | •        | 2   |
|                    | Rock Bass          | 6+            | •        | 2   |
|                    | Spotted<br>Suckers | 11+           | •        | 3   |

| Hamilton<br>County | Carp                | 17-20<br><b>20</b> +              | :      | 4<br>5             |
|--------------------|---------------------|-----------------------------------|--------|--------------------|
|                    | Carpsucker          | 13-18<br>18+                      | O<br>O | 3<br>4             |
|                    | Largemouth<br>Bass  | 11-17<br>17+                      |        | 3<br>4             |
|                    | Longear<br>Sunfish  | 4-9<br>9+                         | :      | 3 4                |
| Marion<br>County   | Bluegill            | 7+                                | •      | 2                  |
|                    | Carp                | 19+                               | •      | 5                  |
|                    | Channel<br>Catfish  | 14-18<br>18-24<br><b>24</b> +     | :      | 3<br>4<br><b>5</b> |
|                    | Flathead<br>Catfish | 13-15<br>15+                      |        | 3<br>4             |
|                    | Largemouth<br>Bass  | 11-13<br>13+                      | -      | 2 3                |
|                    | Quillback           | 13- <del>1</del> 8<br><b>18</b> + | :      | 4<br>5             |
|                    | Spotted<br>Sucker   | 11-13<br>13+                      |        | 3<br>4             |
| Morgan<br>County   | Black<br>Redhorse   | 15-16<br>16+                      |        | 3 4                |
|                    | Carp                | 16-27<br>27+                      | •      | 3<br>4             |

|             | Channel<br>Catfish  | 14-16<br>16+ |          | 3<br>4 |
|-------------|---------------------|--------------|----------|--------|
|             | Flathead<br>Catfish | 11-17<br>17+ | <u>o</u> | 2 3    |
|             | Gizzard Shad        | 10+          | •        | 2      |
|             | Largemouth<br>Bass  | 12+          | •        | 3      |
|             | Quillback           | 13-18<br>18+ | :        | 3<br>4 |
|             | River<br>Carpsucker | 12-15<br>15+ | :        | 3<br>4 |
|             | Smallmouth<br>Bass  | 13-15<br>15+ | :        | 3<br>4 |
|             | Spotted<br>Sucker   | 11-13<br>13+ | :        | 3 4    |
| Owen County | Bigmouth<br>Buffalo | 16-24<br>24+ |          | 2 3    |
|             | Carpsucker          | 13-18<br>18+ | :        | 3<br>4 |
|             | Channel<br>Catfish  | 14-16<br>16+ |          | 3 4    |
|             | Spotted<br>Sucker   | 11-13<br>13+ | :        | 3<br>4 |
|             | White Bass          | 14-15<br>15+ |          | 3<br>4 |

| Greene<br>County  | Bigmouth<br>Buffalo | Up to 20<br>20+ | = | 2 3    |
|-------------------|---------------------|-----------------|---|--------|
|                   | Carpsucker          | 13-18<br>18+    | • | 2 3    |
|                   | Channel<br>Catfish  | 14-16<br>16+    | : | 3<br>4 |
|                   | Spotted<br>Sucker   | 11-13<br>13+    | : | 3<br>4 |
| Daviess<br>County | Bigmouth<br>Buffalo | 17-19           |   | 2      |
|                   | Carpsucker          | 13-18<br>18+    |   | 3<br>4 |
|                   | Channel<br>Catfish  | 14-16<br>16+    | : | 3<br>4 |
|                   | Flathead<br>Catfish | 11-14<br>14+    |   | 2 3    |
|                   | Spotted<br>Sucker   | 11-13<br>13+    | : | 3<br>4 |
|                   | White Bass          | 11-14<br>14+    |   | 3<br>4 |
| Pike County       | Bigmouth<br>Buffalo | 21-25<br>25+    |   | 2 3    |
|                   | Carpsucker          | 13-18<br>18+    | • | 3<br>4 |
|                   | Channel<br>Catfish  | 14-17<br>17+    | : | 3 4    |

|                  | Flathead<br>Catfish | 9-16<br>16+     | :        | 2 3    |
|------------------|---------------------|-----------------|----------|--------|
|                  | Freshwater<br>Drum  | 12-14<br>14+    |          | 2 3    |
|                  | Quillback           | 14-15<br>15+    | <u>o</u> | 3<br>4 |
|                  | River<br>Carpsucker | 15-17<br>17+    | :        | 3<br>4 |
|                  | Smallmouth<br>Bass  | 7-12<br>12+     | 0        | 2 3    |
|                  | Spotted Bass        | 9+              | •        | 3      |
|                  | Spotted<br>Sucker   | 11-13<br>13+    | :        | 3<br>4 |
| Gibson<br>County | Carpsucker          | 6-18<br>18+     |          | 3<br>4 |
|                  | Channel<br>Catfish  | 14-17<br>17+    | :        | 3<br>4 |
|                  | Freshwater<br>Drum  | 12-14<br>14+    | :        | 2 3    |
|                  | Largemouth<br>Bass  | 11-17<br>17+    | <u>o</u> | 2 3    |
|                  | Quillback           | Up to 11<br>11+ | •        | 2 3    |
|                  | River<br>Carpsucker | 16-18<br>18+    |          | 3 4    |

|                     | Spotted<br>Sucker  | 11-13<br>13+ | :      | 3      |
|---------------------|--------------------|--------------|--------|--------|
| West Fork o         | f the Whitewater   | River        |        |        |
| Wayne<br>County     | Creek Chub         | 5-7<br>7+    | 0      | 2 3    |
| Fayette<br>County   | Black<br>Redhorse  | 11-14<br>14+ |        | 2 3    |
|                     | Largemouth<br>Bass | 15-17<br>17+ | O<br>O | 3<br>4 |
|                     | Quillback          | 15+          | O      | 3      |
|                     | Smallmouth<br>Bass | 7-9<br>9+    |        | 2 3    |
| White Lick C        | Creek              |              |        |        |
| Hendricks<br>County | Channel<br>Catfish | 21-22<br>22+ |        | 2 3    |
|                     | Smallmouth<br>Bass | 8-14<br>14+  |        | 2 3    |
| Morgan<br>County    | Channel<br>Catfish | 20+          |        | 2      |
|                     | Smallmouth<br>Bass | 8-12<br>12+  | :      | 2 3    |

#### Whitewater River

| Dearborn<br>County                                         | Black<br>Redhorse  | 14-16<br>16+         |   | 2 3    |
|------------------------------------------------------------|--------------------|----------------------|---|--------|
|                                                            | Channel<br>Catfish | 15-23<br>23+         |   | 3<br>4 |
|                                                            | Freshwater<br>Drum | 14-15<br>15+         |   | 2 3    |
| Wildcat Creek                                              | •                  |                      |   |        |
| Howard County (Downstream of the Waterworks Dam in Kokomo) | ALL<br>SPECIES     | ALL                  | • | 5      |
| Carroll<br>County                                          | ALL<br>SPECIES     | ALL                  | • | 5      |
| Tippecanoe<br>County                                       | Freshwater<br>Drum | 10-12<br><b>12</b> + | : | 4<br>5 |
|                                                            | Golden<br>Redhorse | 12-14<br>14+         | • | 3<br>4 |
|                                                            | Quillback          | 12-13<br>13+         | = | 3<br>4 |
|                                                            | White Bass         | 7-8<br>8+            | = | 2 3    |
|                                                            | Channel<br>Catfish | 10-16<br>16+         | : | 3 4    |
|                                                            | Spotted Bass       | 8+                   | • | 3      |

#### Young's Creek

JohnsonNorthern7-10■2CountyHogsucker10+■3

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### APPENDIX C.3 WETLANDS INVENTORY MAP

EEPWATER HABITAT)

#### U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE

Prepared by National Watlands Inventory

1990

|                                                                                             | AERIAL PHO                       | TOGRAPHY        |
|---------------------------------------------------------------------------------------------|----------------------------------|-----------------|
| land areas but may include<br>h as man-modified areas non<br>ndi/or unintentional omissions | DATE 3 86 SCALE 158 000 TYPE CIR | DATE SCALE TYPE |

|                                                                    | E ~                                                                                                       | - ESTUARINE                                                                                                                         |                                                 |                                                                                         |                                   |                                                                           |                                                                |                                                 |                                                                                                                                            | SYSTEM     |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------|
|                                                                    |                                                                                                           |                                                                                                                                     |                                                 |                                                                                         | 2 IN                              | TERTIDAL                                                                  |                                                                |                                                 |                                                                                                                                            | SUBSYSTEM  |
| RF REEF                                                            | OW OPEN WATER/<br>Unknown Bottom                                                                          | AB - AQUATIC BED                                                                                                                    | AF — AGEF SB                                    | STREAMBED                                                                               | RS - ROCKY<br>SHORE               | US — UNICONSOL<br>SHORE                                                   | LIDATED EM EI                                                  | MERGENT SS — SCRIUB-SHAU                        | FO FORESTED                                                                                                                                | CLASS      |
| ¿ Moltusc<br>3 Worm                                                |                                                                                                           | Algel     Rouled Vascular     Floating Vescular     Floating Vescular     Surfaceus     Surfaceus Submergenic     Unitroven Surface | 3 Worm 2 S<br>3 N                               | obble-Graver<br>and<br>Mad<br>Ingenic                                                   | 1 Bedrock<br>2 Rubble             | 1 Cobbin-Graver<br>2 Sans<br>3 Mud<br>4 Drgarec                           | Persist<br>2 Nonper                                            |                                                 | 1 Broad-Laward Decohorus 2 Neodie-Laward Decohorus 3 Broad-Laward Everymen Everymen 4 Neodie-Laward Everymen 5 Deac 6 Decohorus 7 Everymen | Serlicture |
|                                                                    |                                                                                                           | L LACUSTRINI                                                                                                                        | E                                               |                                                                                         |                                   | _                                                                         |                                                                |                                                 |                                                                                                                                            | SYSTEM     |
|                                                                    |                                                                                                           |                                                                                                                                     |                                                 |                                                                                         | 2 – L                             | TTORAL                                                                    |                                                                |                                                 |                                                                                                                                            | SUBSYSTEM  |
| OLIATEC<br>ED                                                      | OW OPEN WATER<br>Urknown Bottom                                                                           | RØ ROCK<br>BOTTOM                                                                                                                   | UB UNCONSOLIDA<br>BOYTOM                        | DED AN CED                                                                              | ATIC                              | - ROCKY<br>SHORE                                                          | US UNCONSO<br>SHORE                                            | LIDATED EM EMIERGENT                            | OW - OPEN WATER<br>Undrimm Bottom                                                                                                          | CLASS      |
| c Moss<br>I Vasculer<br>ig Vasculer<br>inn Sulmerge<br>inn Sulface | wat                                                                                                       | 2 Rubble                                                                                                                            | 1 Cobble-Gravel<br>2 Sand<br>3 Mud<br>4 Organic | 1 Aiguil<br>2 Agustic fé<br>3 Routed Vé<br>4 Floaring V<br>5 Unitravir i<br>6 Unitravir | tecular<br>faecular<br>Submergent | Ser rock<br>Rut We                                                        | 1 Cobble-Gravel<br>2 Sand<br>3 Mud<br>4 Organic<br>5 Vegetated | 2 Kongertestern                                 |                                                                                                                                            | Subclass   |
|                                                                    |                                                                                                           |                                                                                                                                     | MODII                                           | FIERS                                                                                   |                                   |                                                                           |                                                                |                                                 |                                                                                                                                            | 1          |
| Solel o                                                            |                                                                                                           | adequately describe well<br>is applied at the class or                                                                              |                                                 |                                                                                         |                                   |                                                                           |                                                                | •                                               |                                                                                                                                            |            |
| TER REC                                                            | SIME                                                                                                      |                                                                                                                                     | I                                               | WATER C                                                                                 | HEMISTR                           | 7                                                                         | SOIL                                                           | SPECIAL MO                                      | DIFIERS                                                                                                                                    | 1          |
| ded<br>sded<br>d<br>ery<br>ermanent                                | Th. K. Arthicustly Flooded L. Subhidat M. Irregularly Exposed N. Regularly Flooded P. Irregularly Flooded | *S Temporary Tidal<br>*R Sessonal Tidal<br>*T Sempermanent Tidal<br>*V Parmanent Tidal<br>*U Unknown                                | 1 Hyperhalina<br>2 Euhaline                     | 7 Hypersa<br>8 Eusaine                                                                  | ine i                             | oH Modifiers for<br>III Fresh Water<br>Acid<br>Circumnicuttal<br>Assaline | g Organic<br>n Mineral                                         | b Seers<br>d Parany Drained, (Michel<br>f Bried | Osked/Imposanced     Artificial Substrate     Sporr     Encavarted                                                                         |            |
| prat                                                               |                                                                                                           | er régimes are only used n<br>venced freshwater systéms                                                                             |                                                 |                                                                                         |                                   |                                                                           |                                                                |                                                 |                                                                                                                                            |            |

### APPENDIX C.4 FLOOD INSURANCE RATE MAP

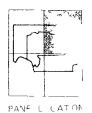
### FIRM

FLOOD INSURANCE RATE MAP

CITY OF
BEDFORD,
INDIANA

LAWRENCE COUNTY

**MEL 10 OF 20** 

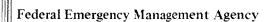


COMMUNITY-PANEL NUMBER

180148 0010 B

EFFECTIVE DATE:





#### APPENDIX C.5

**ENDANGERED SPECIES LIST** 

# Distribution of Federally Threatened (T), Endangered (E), and Proposed (P) Species in Indiana (1999)

For more information about threatened and endangered species in Indiana, contact the U.S. Fish & Wildlife Service office at 620 South Walker Street,
Bloomington, Indiana 47403-2121 (812/334-4261)

| Species                                                  | Status     | Counties                                                                                      | Habitat                                                                                                                                  |
|----------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Mammals                                                  |            |                                                                                               |                                                                                                                                          |
| Gray bat (Myotis grisescens)                             | Endangered | Clark, Crawford, Floyd,<br>Harrison                                                           | Caves                                                                                                                                    |
| Indiana bat<br>(Myotis sodalis)                          | Endangered | Statewide  CRITICAL HABITAT: Big Wyandotte Cave (Crawford County), Ray's Cave (Greene County) | Hibernaria = Caves and mines; Maternity and foraging habitat = small stream corridors with well developed riparian woods; upland forests |
| Birds                                                    |            |                                                                                               |                                                                                                                                          |
| Bald eagle<br>(Haliaeetus leucocephalus)                 | Threatened | Statewide                                                                                     | Wintering                                                                                                                                |
| Bald eagle<br>(Haliaeetus leucocephalus)                 | Threatened | Brown, DuBois, Greene,<br>Martin, Monroe, Morgan,<br>Orange, Owen, Parke                      | Recent Nesting & Wintering                                                                                                               |
| Peregrine falcon (Falco peregrinus)                      | Endangered | Lake                                                                                          | Breeding                                                                                                                                 |
| Peregrine falcon (Falco peregrinus)                      | Endangered | Allen and Marion                                                                              | Hacking Site                                                                                                                             |
| Least Tern<br>(Sterna antıllarum)                        | Endangered | Gibson                                                                                        | Breeding                                                                                                                                 |
| Reptiles                                                 |            |                                                                                               |                                                                                                                                          |
| Copperbelly water snake (Nerodia erythrogaster neglecta) | Threatened | Kosciusko, St. Joseph,<br>Steuben                                                             | Wooded and permanently wet areas such as oxbows, sloughs, brushy ditches and floodplain woods                                            |
| Mussels                                                  |            |                                                                                               |                                                                                                                                          |
| Clubshell<br>(Pleurobema clava)                          | Endangered | Carroll, Dekalb, Fulton,<br>Kosciusko, Marshall, Pulaskı,<br>Tıppecanoe, White                | Rivers                                                                                                                                   |

| Species Status                                                 |            | Counties                                                                                                                                                                | Habitat |
|----------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Cracking pearlymussel (Hemistena lata)                         | Endangered | Knox (possibly extirpated)                                                                                                                                              | Rivers  |
| Fanshell (Cyprogenia stegaria)                                 | Endangered | Carroll, Martin, Sullivan,<br>Tippecanoe, Wabash, White                                                                                                                 | Rivers  |
| Fat pocketbook<br>(Potamilus capax)                            | Endangered | Gibson, Knox, and Posey                                                                                                                                                 | Rivers  |
| Northern riffleshell<br>(Epioblasma torulosa rangiana)         | Endangered | Dekalb, Pulaskı                                                                                                                                                         | Rivers  |
| Orange-footed pearlymussel (Plethobasus cooperianus)           | Endangered | Gibson (possibly extirpated)                                                                                                                                            | Rivers  |
| Pink mucket pearlymussel (Lampsilis orbiculata) (=P abrupta)   | Endangered | Posey                                                                                                                                                                   | Rivers  |
| Ring pink (Obovaria retusa)                                    | Endangered | Fountain, Gibson, Harrison,<br>Knox, Lawrence, Posey,<br>Sullivan, Tippecanoe,<br>Vermilion, Vigo, Warren,<br>possibly extirpated from those<br>counties                | Rivers  |
| Rough pigtoe<br>(Pleurobema plenum)                            | Endangered | Martin                                                                                                                                                                  | Rivers  |
| Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa)  | Endangered | Carroll, Fountain, Gibson,<br>Fulton, Jackson, Knox, Posey,<br>Pulaski, Sullivan, Tippecanoe,<br>Vermilion, Vigo, Warren,<br>possibly extirpated from those<br>counties | Rivers  |
| White cat's paw pearlymussel (Epioblasma obliquata perobliqua) | Endangered | Dekalb                                                                                                                                                                  | Rivers  |
| White warty-back pearlymussel (Plethobasis cicatricosus)       | Endangered | Posey, Tippecanoe, Vermilion, Vigo, possibly extirpated from those counties                                                                                             | Rivers  |
| Insects                                                        |            |                                                                                                                                                                         |         |
| Mitchell's satyr<br>(Neonympha mitchellii)                     | Endangered | LaGrange, LaPorte                                                                                                                                                       | Fens    |

| Species                                            | Status     | Counties                               | Habitat                                                                                                                         |
|----------------------------------------------------|------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Karner blue butterfly (Lycaeides melissa samuelis) | Endangered | Lake, Porter                           | Pine barrens and oak savannas on sandy soils and containing wild lupines (Lupinus perennis) the only known food plant of larvae |
| Plants                                             |            |                                        |                                                                                                                                 |
| Mead's milkweed                                    | Threatened | Lake                                   | Prairies                                                                                                                        |
| Pitcher's thistle (Cirsium pitcheri)               | Threatened | Lake, Porter                           | Lakeshores, stabilized dunes and blowout areas                                                                                  |
| Running buffalo clover (Trifolium stoloniferum)    | Endangered | Dearborn, Ohio, Ripley,<br>Switzerland | Disturbed bottomland meadows                                                                                                    |

# Distribution of Federally Threatened (T), Endangered (E), and Proposed (P) Species in Indiana (1999)

For more information about threatened and endangered species in Indiana, contact the U.S. Fish & Wildlife Service office at 620 South Walker Street,
Bloomington, Indiana 47403-2121 (812/334-4261)

| COUNTY      | SPECIES                                  | STATUS | HABITAT                                                                                                                                  |
|-------------|------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| Allen       | Indiana bat (Myotis sodalis)             | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|             | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |
| Bartholomew | Indiana bat (Myotis sodalis)             | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|             | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |
| Blackford   | Indiana bat (Myotis sodalis)             | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|             | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |
| Boone       | Indiana bat (Myotis sodalis)             | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|             | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |
| Brown       | Indiana bat (Myotis sodalis)             | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|             | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |

| COUNTY  | SPECIES                                                       | STATUS                 | HABITAT                                                                                                                                  |
|---------|---------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Carroll | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|         | Bald eagle<br>(Haliaeetus leucocephalus)                      | T                      | Wintering                                                                                                                                |
|         | Clubshell<br>(Pleurobema clava)                               | E                      | Rivers                                                                                                                                   |
|         | Fanshell pearly mussel (Cyprogenia stegaria)                  | E                      | Rivers                                                                                                                                   |
|         | Rough pigtoe<br>(Pleurobema plenum)                           | E                      | Rivers                                                                                                                                   |
|         | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E, possibly extirpated | Rivers                                                                                                                                   |
| Cass    | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|         | Bald eagle<br>(Haliaeetus leucocephalus)                      | T                      | Wintering                                                                                                                                |
| Clark   | Gray bat (Myotis grisescens)                                  | E                      | Caves                                                                                                                                    |
|         | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|         | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Clay    | Indiana bat (Myotis sodalis)                                  | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|         | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |

| COUNTY   | SPECIES                                                        | STATUS | HABITAT                                                                                                                                  |
|----------|----------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| Clinton  | Indiana bat (Myotis sodalis)                                   | F      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                       | Т      | Wintering                                                                                                                                |
| Crawford | Gray bat (Myotis grisescens)                                   | Е      | Caves                                                                                                                                    |
|          | Indiana bat (Myotis sodalis)                                   | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                       | Т      | Wintering                                                                                                                                |
| De Kalb  | Indiana bat (Myotis sodalis)                                   | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                       | Т      | Wintering                                                                                                                                |
|          | Clubshell<br>(Pleurobema clava)                                | Е      | Rivers                                                                                                                                   |
|          | Northern riffleshell (Epioblasma torulosa rangiana)            | Е      | Rivers                                                                                                                                   |
|          | White cat's paw pearlymussel (Epioblasma obliquata perobliqua) | Е      | Rivers                                                                                                                                   |
| Dearborn | Indiana bat (Myotis sodalis)                                   | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                       | Т      | Wintering                                                                                                                                |
|          | Running buffalo clover (Trifolium stoloniferum)                | Е      | Disturbed bottomland meadows                                                                                                             |

| COUNTY   | SPECIES                                                       | STATUS                 | HABITAT                                                                                                                                  |
|----------|---------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Delaware | Indiana bat (Myotis sodalis)                                  | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat - small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Dubois   | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Elkhart  | Indiana bat (Myotis sodalis)                                  | E                      | Hibernatia = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Floyd    | Gray bat (Myotis grisescens)                                  | E                      | Caves                                                                                                                                    |
|          | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Fountain | Indiana bat (Myotis sodalis)                                  | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
|          | Ring Pink (Obovaria retusa)                                   | E                      | Rivers                                                                                                                                   |
|          | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E, possibly extirpated | Rivers                                                                                                                                   |

| COUNTY | SPECIES                                                        | STATUS                 | HABITAT                                                                                                                                  |
|--------|----------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Fulton | Indiana bat (Myotis sodalis)                                   | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|        | Bald eagle (Haliaeetus leucocephalus)                          | Т                      | Wintering                                                                                                                                |
|        | Clubshell<br>(Pleurobema clava)                                | Е                      | Rivers                                                                                                                                   |
|        | Rough pigtoe<br>(Pleurobema plenum)                            | Е                      | Rivers                                                                                                                                   |
|        | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa)  | E, possibly extirpated | Rivers                                                                                                                                   |
| Gıbson | Indiana bat (Myotis sodalis)                                   | E                      | Hibernaria = Caves and mines, M ternity and foraging habitat = small stream cc ridors with well developed riparian woods, ut and forests |
|        | Bald eagle<br>(Haliaeetus leucocephalus)                       | Т                      | Wintering                                                                                                                                |
|        | Least Tern; interior population (Sterna antillarum athalassos) | E                      |                                                                                                                                          |
|        | Fat pocketbook (Potamilus capax)                               | Е                      | Rivers                                                                                                                                   |
|        | Rıng Pınk<br>(Obovarıa retusa)                                 | Е                      | Rivers                                                                                                                                   |
|        | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa)  | E, possibly extirpated | Rivers                                                                                                                                   |
| Greene | Indiana bat (Myotis sodalis)                                   | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|        | Bald eagle<br>(Haliaeetus leucocephalus)                       | Т                      | Wintering                                                                                                                                |

| COUNTY    | SPECIES                                  | STATUS | HABITAT                                                                                                                                  |
|-----------|------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| Hamilton  | Indiana bat (Myotis sodalis)             | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |
| Hancock   | Indiana bat (Mvotis sodalis)             | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |
| Harrison  | Gray bat (Myotis grisescens)             | E      | Caves                                                                                                                                    |
|           | Indiana bat (Myotis sodalis)             | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |
| Hendricks | Indiana bat (Myotis sodalis)             | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |
| Henry     | Indiana bat (Myotis sodalis)             | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |
| Howard    | Indiana bat (Myotis sodalis)             | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus) | Т      | Wintering                                                                                                                                |

| COUNTY     | SPECIES                                                       | STATUS                 | HABITAT                                                                                                                                  |
|------------|---------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Huntington | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Jackson    | Indiana bat (Myotis sodalis)                                  | Ē                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
|            | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E, possibly extirpated | Rivers                                                                                                                                   |
| Jasper     | Indiana bat (Myotis sodalis)                                  | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Jay        | Indiana bat (Myotis sodalis)                                  | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Jefferson  | Indiana bat<br>(Myotis sodalis)                               | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Jennings   | Indiana bat (Myotis sodalis)                                  | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |

| COUNTY    | SPECIES                                                        | STATUS                 | HABITAT                                                                                                                                  |
|-----------|----------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Johnson   | Indiana bat (Myotis sodalis)                                   | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus)                       | Т                      | Wintering                                                                                                                                |
| Knox      | Indiana bat<br>(Myotis sodalis)                                | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus)                       | Т                      | Wintering                                                                                                                                |
|           | Fat pocketbook (Potamilus capax)                               | Е                      | Rivers                                                                                                                                   |
|           | Ring Pink (Obovaria retu-i)                                    | Е                      | Rivers                                                                                                                                   |
|           | Rough pigtoe / l·urobema plenum)                               | Е                      | Rivers                                                                                                                                   |
|           | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa)  | E, possibly extirpated | Rivers                                                                                                                                   |
| Kosciusko | Indiana bat (Myotis sodalis)                                   | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus)                       | Т                      | Wintering                                                                                                                                |
|           | Copperbelly water snake<br>(Nerodia ervihrogaster<br>neglecta) | Т                      | Wooded and permanently wet areas such as oxbows, sloughs, brushy ditches and floodplain woods                                            |
|           | Clubshell<br>(Pleurobema clava)                                | Е                      | Rivers                                                                                                                                   |
|           | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa)  | E, possibly extirpated | Rivers                                                                                                                                   |

| COUNTY   | SPECIES                                                      | STATUS | HABITAT                                                                                                                                  |
|----------|--------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| La Porte | Indiana bat<br>(Myotis sodalis)                              | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald cagle<br>(Haliaeetus leucocephalus)                     | Т      | Wintering                                                                                                                                |
|          | Mitchell's satyr butterfly (Neonympha mitchellii mitchellii) | E      | Fens                                                                                                                                     |
| Lagrange | Indiana bat (Myotis sodalis)                                 | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                     | Т      | Wintering                                                                                                                                |
|          | Mitchell's satyr butterfly (Neonympha mitchellii mitchellii) | Е      | Fens                                                                                                                                     |
| Lake     | Indiana bat (Myotis sodalis)                                 | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well ceveloped riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                     | Т      | Wintering                                                                                                                                |
|          | Karner blue butterfly (Lycaeides melissa samuelis)           | E      | Pine barrens and oak savannas on sandy soils and containing wild lupines (Lupinus perennis), the only known food plant of larvae         |
|          | Pitcher's thistle<br>(Cirsium pitcheri)                      | Т      | Lakeshores, stabilized dunes and blowout areas                                                                                           |
|          | Mead's milkweed<br>(Asclepias meadii)                        | Т      | Prairies                                                                                                                                 |
| Lawrence | Indiana bat (Myotis sodalis)                                 | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well ceveloped riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                     | Т      | Wintering                                                                                                                                |
|          | Ring Pink<br>(Obovaria retusa)                               | Е      | Rivers                                                                                                                                   |

| COUNTY   | SPECIES                                      | STATUS | HABITAT                                                                                                                                   |
|----------|----------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Madison  | Indiana bat<br>(Myotis sodalis)              | E      | Hibernaria = Caves and mines,  Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)     | Т      | Wintering                                                                                                                                 |
| Marion   | Indiana bat (Myotis sodalis)                 | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests  |
|          | Bald eagle<br>(Haliaeetus leucocephalus)     | Т      | Wintering                                                                                                                                 |
| Marshall | Indiana bat (Myotis sodalis)                 | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests  |
|          | Bald eagle<br>(Haliaeetus leucocephalus)     | T      | Wintering                                                                                                                                 |
|          | Clubshell<br>(Pleurobema clava)              | Е      | Rivers                                                                                                                                    |
| Martın   | Indiana bat (My otis sodalis)                | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests  |
|          | Bald eagle<br>(Haliaeetus leucocephalus)     | Т      | Wintering                                                                                                                                 |
|          | Fanshell pearly mussel (Cyprogenia stegaria) | Е      | Rivers                                                                                                                                    |
|          | Rough pigtoe<br>(Pleurobema plenum)          | Е      | Rivers                                                                                                                                    |
| Mıamı    | Indiana bat (Myotis sodalis)                 | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests  |
|          | Bald eagle<br>(Haliaeetus leucocephalus)     | Т      | Wintering                                                                                                                                 |

| COUNTY     | SPECIES                                         | STATUS | HABITAT                                                                                                                                  |
|------------|-------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| Monroe     | Indiana bat<br>(Myotis sodalis)                 | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)        | Т      | Wintering                                                                                                                                |
| Montgomery | Indiana bat (Myotis sodalis)                    | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)        | Т      | Wintering                                                                                                                                |
| Morgan     | Indiana bat (Myotis sodalis)                    | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)        | Т      | Wintering                                                                                                                                |
| Noble      | Indiana bat (Myotis sodalis)                    | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haltaeetus leucocephalus)        | Т      | Wintering                                                                                                                                |
| Ohio       | Indiana bat (Myotis sodalis)                    | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)        | Т      | Wintering                                                                                                                                |
|            | Running buffalo clover (Trifolium stoloniferum) | Е      | Disturbed bottomland meadows                                                                                                             |
| Orange     | Indiana bat (Myotis sodalis)                    | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|            | Bald eagle<br>(Haliaeetus leucocephalus)        | Т      | Wintering                                                                                                                                |

| COUNTY | SPECIES                                            | STATUS | HABITAT                                                                                                                                  |
|--------|----------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| Owen   | Indiana bat<br>(Myotis sodalis)                    | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|        | Bald eagle<br>(Haliaeetus leucocephalus)           | Т      | Wintering                                                                                                                                |
| Parke  | Indiana bat (Myotis sodalis)                       | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|        | Bald eagle<br>(Haliaeetus leucocephalus)           | Т      | Wintering                                                                                                                                |
| Pike   | Indiana bat (Myotis sodalis)                       | Е      | Hibernatia = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|        | Bald eagle<br>(Haliaeetus leucocephalus)           | Т      | Wintering                                                                                                                                |
| Porter | Indiana bat (Myotis sodalis)                       | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|        | Bald eagle<br>(Haliaeetus leucocephalus)           | Т      | Wintering                                                                                                                                |
|        | Karner blue butterfly (Lvcaeides melissa samuelis) | E      | Pine barrens and oak savannas on sandy soils and containing wild lupines (Lupinus perennis), the only known food plant of larvae         |
|        | Pitcher's thistle (Cirsium pitcheri)               | Т      | Lakeshores, stabilized dunes and blowout areas                                                                                           |
| Posey  | Indiana bat (Myotis sodalis)                       | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|        | Bald eagle<br>(Haliaeetus leucocephalus)           | Т      | Wintering                                                                                                                                |
|        | Fat pocketbook (Potamilus capax)                   | Е      | Rivers                                                                                                                                   |
|        | Pink mucket (Lampsilis abrupta)                    | Е      | Rivers                                                                                                                                   |

| COUNTY   | SPECIES                                                       | STATUS                 | HABITAT                                                                                                                                  |
|----------|---------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|          | Ring Pink<br>(Obovaria retusa)                                | E                      | Rivers                                                                                                                                   |
|          | Rough pigtoe (Pleurobema plenum)                              | Е                      | Rivers                                                                                                                                   |
|          | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E, possibly extirpated | Rivers                                                                                                                                   |
| Pulaskı  | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
|          | Clubshell<br>(Pleurobema clava)                               | Е                      | Rivers                                                                                                                                   |
|          | Nonhern riffleshell (Epioblasma torulosa rangiana)            | Е                      | Rivers                                                                                                                                   |
|          | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E, possibly extirpated | Rivers                                                                                                                                   |
| Putnam   | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |
| Randolph | Indiana bat (Myotis sodalis)                                  | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                      | Y                      | Wintering                                                                                                                                |
| Ripley   | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|          | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |

| COUNTY    | SPECIES                                                  | STATUS | HABITAT                                                                                                                                  |
|-----------|----------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
|           | Running buffalo clover (Trifolium stoloniferum)          | Е      | Disturbed bottomland meadow                                                                                                              |
| Rush      | Indiana bat (Myotis sodalis)                             | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus)                 | Т      | Wintering                                                                                                                                |
| Shelby    | Indiana bat (Myotis sodalis)                             | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle (Haliaeetus leucocephalus)                    | Т      | Wintering                                                                                                                                |
| St Joseph | Indiana bat (Myotis sodalis)                             | E      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus)                 | Т      | Wintering                                                                                                                                |
|           | Copperbelly water snake (Nerodia erythrogaster neglecta) | T      | Wooded and permanently wet areas such as oxbows, sloughs, brushy ditches and floodplain woods                                            |
| Starke    | Indiana bat (Myotis sodalis)                             | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
|           | Bald eagle<br>(Haliaeetus leucocephalus)                 | Т      | Wintering                                                                                                                                |
| Steuben   | Indiana bat (Myotis sodalis)                             | Е      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |
| , ,       | Bald eagle<br>(Haliaeetus leucocephalus)                 | Т      | Wintering                                                                                                                                |
|           | Copperbelly water snake (Nerodia erythrogaster neglecta) | Т      | Wooded and permanently wet areas such as oxbows, sloughs, brushy ditches and floodplain woods                                            |

| COUNTY      | SPECIES                                                       | STATUS                 | HABITAT                                                                                                                                  |  |  |
|-------------|---------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Sullivan    | Indiana bat (Myotis sodalis)                                  | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |  |  |
|             | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |  |  |
|             | Fanshell pearly mussel (Cyprogenia stegaria)                  | Е                      | Rivers                                                                                                                                   |  |  |
|             | Ring Pink<br>(Obovaria retusa)                                | Е                      | Rivers                                                                                                                                   |  |  |
|             | Rough pigtoe<br>(Pleurobema plenum)                           | Е                      | Rivers                                                                                                                                   |  |  |
|             | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E, possibly extirpated | Rivers                                                                                                                                   |  |  |
| Svatzerland | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |  |  |
|             | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |  |  |
|             | Running buffalo clover (Trifolium stoloniferum)               | Е                      | Disturbed bottomland meadow                                                                                                              |  |  |
| Tippecanoe  | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |  |  |
|             | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |  |  |
|             | Clubshell<br>(Pleurobema clava)                               | Е                      | Rivers                                                                                                                                   |  |  |
|             | Fanshell pearlymussel (Cyprogenia stegaria)                   | Е                      | Rivers                                                                                                                                   |  |  |
|             | Ring pink (Obovaria retusa)                                   | Е                      | Rivers                                                                                                                                   |  |  |
|             | Rough pigtoe<br>(Pleurobema plenum)                           | Е                      | Rivers                                                                                                                                   |  |  |

| COUNTY     | SPECIES                                                       | STATUS                 | HABITAT                                                                                                                                  |  |  |
|------------|---------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|            | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E, possibly extirpated | Rivers                                                                                                                                   |  |  |
| Vermillion | Indiana bat (Mvotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |  |  |
|            | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |  |  |
|            | Ring Pink<br>(Obovaria retusa)                                | Е                      | Rivers                                                                                                                                   |  |  |
|            | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E, possibly extirpated | Rivers                                                                                                                                   |  |  |
| Vigo       | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |  |  |
|            | Bald eagle<br>(Haliaeetus leucocephalus)                      | Е                      | Rivers                                                                                                                                   |  |  |
|            | Rıng Pınk<br>(Obovarıa retusa)                                | Е                      | Rivers                                                                                                                                   |  |  |
|            | Rough pigtoe<br>(Pleurobema plenum)                           | Е                      | Rivers                                                                                                                                   |  |  |
|            | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E; possibly extirpated | Rivers                                                                                                                                   |  |  |
| Wabash     | Indiana bat (Myotis sodalis)                                  | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests |  |  |
|            | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                |  |  |
|            | Fanshell pearlymussel (Cyprogenia stegaria)                   | Е                      | Rivers                                                                                                                                   |  |  |

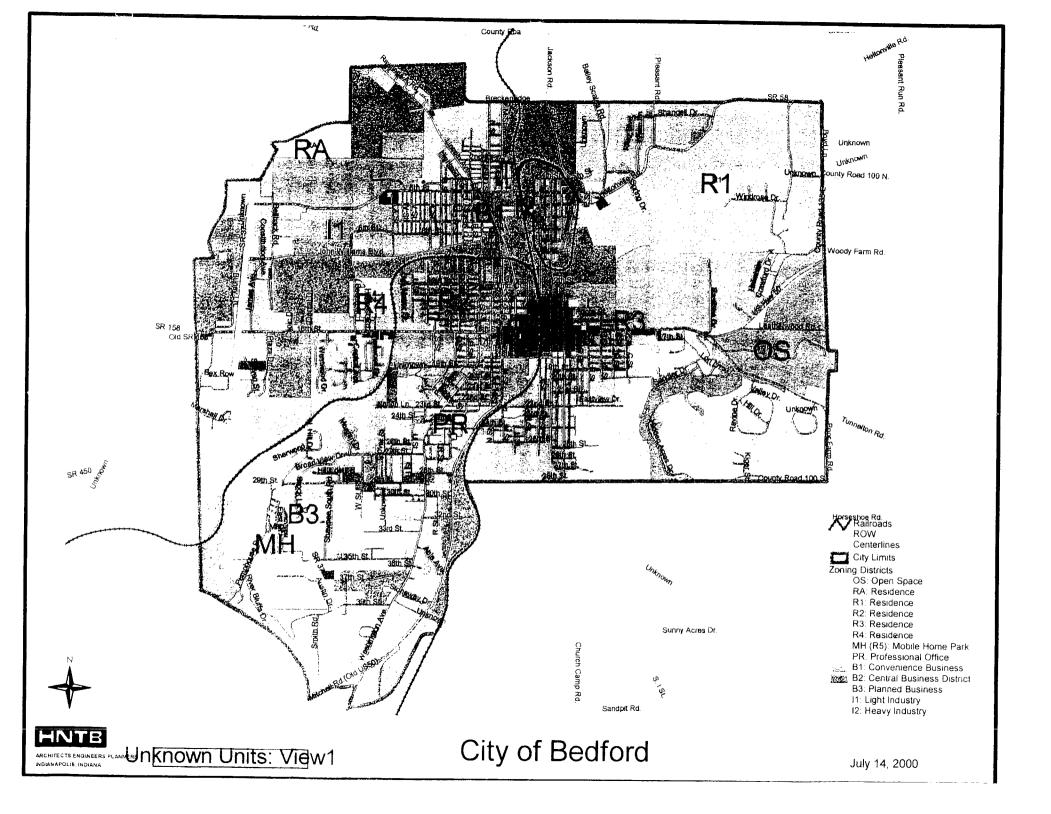
| COUNTY                             | SPECIES                                                       | STATUS                 | HABITAT                                                                                                                                   |  |  |
|------------------------------------|---------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Warren                             | Indiana bat<br>(Myotis sodalis)                               | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests  |  |  |
|                                    | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                 |  |  |
|                                    | Ring Pink (Obovaria retusa)                                   | Е                      | Rivers                                                                                                                                    |  |  |
|                                    | Rough pigtoe<br>(Pleurobema plenum)                           | Е                      | Rivers                                                                                                                                    |  |  |
|                                    | Tubercled-blossom pearlymussel (Epioblasma torulosa torulosa) | E, possibly extirpated | Rivers                                                                                                                                    |  |  |
| Washington                         | Indiana bat (Myotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitates = small stream corridors with well developed aparian woods, upland forests |  |  |
|                                    | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Rivers                                                                                                                                    |  |  |
| Wayne                              | Indiana bat (Mvotis sodalis)                                  | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests  |  |  |
|                                    | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Rivers                                                                                                                                    |  |  |
| Wells Indiana bat (Myotis sodalis) |                                                               | E                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests  |  |  |
|                                    | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Rivers                                                                                                                                    |  |  |
| White                              | Indiana bat<br>(Myotis sodalis)                               | Е                      | Hibernaria = Caves and mines, Maternity and foraging habitat = small stream corridors with well developed riparian woods, upland forests  |  |  |
|                                    | Bald eagle<br>(Haliaeetus leucocephalus)                      | Т                      | Wintering                                                                                                                                 |  |  |

| COUNTY | SPECIES                                     | STATUS | HABITAT |
|--------|---------------------------------------------|--------|---------|
|        | Clubshell<br>(Pleurobema clava)             | E      | Rivers  |
|        | Fanshell pearlymussel (Cyprogenia stegaria) | Е      | Rivers  |

E = Endangered

T = Threatened

# APPENDIX D.1 CITY OF BEDFORD ZONING DISTRICTS



#### APPENDIX D.2

REPORT OF THE SOIL AND FOUNDATION INVESTIGATION FOR THE PROPOSED WATER POLLUTION CLARIFICATION SYSTEM

CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
BEDFORD PLANT
BEDFORD, INDIANA 47421

REPORT OF THE
SOIL AND FOUNDATION INVESTIGATION FOR
THE PROPOSED WATER POLLUTION CLARIFICATION
SYSTEM, BEDFORD, INDIANA

PREPARED BY
PITTSBURGH TESTING LABORATORY
November, 1972 IND 2239



# PITTSBURGH TESTING LABORATORY

ESTABLISHED IBBI

# INSPECTING ENGINEERS AND CHEMISTS 2828 N. WEBSTER AVENUE INDIANA FOLIS. INDIANA 46219

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Nov. 21, 1972

IND 2239

Central Foundry Division General Motors Corporation Bedford Plant Bedford, Indiana 47421

Sub: Soil and Foundation Investigation

Proposed Water Pollution Clarification

System, Bedford, Indiana

#### Gentlemen:

In accordance with your authorization, we have completed a soil and foundation investigation at the subject site and are pleased to submit the following report on the results of the investigation:

#### PURPOSE AND SCOPE

The purpose of this report is to present the results of our findings along with our interpretation of these, and recommendations to aid design and construction of foundations for the proposed Water Pollution Clarification System. These recommendations were developed on the basis of the specific information obtained at the boring locations during this investigation. The general stratification of the subsurface conditions other and poorer than those encountered may exist between boring locations and require some adjustments during construction.

#### PROJECT CHARACTERISTICS

The project site is located adjacent to and south of the main GMC Central Foundry Facility in the City of Bedford, Indiana. This clarification System will consist of a Control Room with attached Hydraulic Storage Pit, a north and a south Clarithickener, and a Reactor Clarifier. Some of the more important information about these units follows:

### Control Room With Attached Hydraulic Storage Pit

The Control Room is a one-story building covering an area 22 feet by 29 feet. Its finished floor elevation will reportedly be 696.00. Standard brick and block construction will be used. A basement is proposed with poured concrete walls. Maximum loads are expected to be relatively light.

A Hydraulic Storage Pit is to be located adjacent to the north wall of Control Room. It will cover an area ll feet by 22 feet. The Pit bottom will reportedly be at elevation 681.00.

### North and South Clarithickeners

Two clarithickeners are proposed for this facility. They will be 45 feet in diameter and 19'-6 3/4" deep. Their top elevation will be 696.5 and their bottom elevation will be 676.94.

# Reactor Clarifier

The Reactor Clarifier will be 44 feet in diameter and will be 16'- 8" deep. Its top elevation will be 693.5 and its bottom elevation is proposed at 673.83.

Three ponds currently exist at the site. The water elevations are 690.9, 689.2 and 686.8 in ponds Nos. 1, 2 and 3 respectively. The proposed facilities will be located at least partially in the area of pond No. 1, and in some cases completely. It is our understanding that a parking area is proposed in the area of pond No. 2.

### Field Investigation

Four (4) borings were put down at the subject site at locations shown on the Location of Boring drawing contained in the Appendix to this report. The borings were generally drilled to depths ranging between about 7.5 and 22 feet below existing ground.

Borings were advanced by using a truck-mounted rotary drilling rig equipped to secure both disturbed and undisturbed soil samples. To determine the relative density of cohesionless soils, the consistency of cohesive soils, and to secure samples for visual identification of the soil types encountered, standard penetration tests were made in accordance with A.S.T.M. D-1586, at about 2.5 to 5.0 foot intervals of depth in each boring. Typical samples of the soils encountered were sealed in glass jars and sent to the laboratory.

Standard penetration tests are made by driving a standard 1-3/8"

I.D. split barrel penetration spoon one-foot into undisturbed soil by

IND 2239 Page three

means of a 140 lb. drop weight free falling a distance of thirty inches.

A graphical representation of the logs of borings is given in the Appendix for reference. These sheets include:

- 1. The results of the standard penetration tests (N values).
- 2. Visual classifications of soils encountered at different depths.
- 3. Ground water level information where it was encountered.

#### FOUNDATION SUBSOIL CONDITIONS

The soil borings indicate that the foundation subsoil conditions at the site are somewhat variable. Surficial deposits in the area of borings 1 and 2 consist primarily of miscellaneous soil fill material. This material was extremely variable in both composition and condition. It generally extended to depths ranging between 7.5 and 20 feet below existing ground.

Below the miscellaneous fill at borings 1 and 2, and starting at the surface at borings 3 and 4 are various layers of medium stiff to very stiff clay or silty clay. These soils extended to the bottom of the borings. Auger refusal was encountered at depths of 22, 7.5 and 8 feet below existing ground at the location of borings 2, 3 and 4, respectively.

Free ground water level observations were made upon completion of the drilling. These observations indicate the water table was encountered at depths ranging between 5 and 10 feet below existing ground.

#### LABORATORY INVESTIGATION

All of the samples obtained in the field were brought to the laboratory for examination and testing. The field classifications were checked and modified if it was considered necessary.

Several unconfined compression tests were performed to assess the shear strength of the foundation soils. To obtain information about the soil index properties, natural moisture content and dry density determinations were performed. The results obtained from the various tests were tabulated and placed in the Appendix for reference.

#### ENGINEERING ANALYSES

Soil bearing capacity was computed as a function of depth below the lowest adjacent grade. The footings were considered to be at a minimum depth of 3 feet below final grade. The bearing capacity safety factor was on the order of 3 and was in some areas well above this limit. This safety factor was included in the recommended soil pressures.

The soil pressures recommended for use on this project were based on bearing capacity considerations and settlement evaluations of the foundation soils encountered. The settlements were estimated on the basis of the results of the field tests. The recommended soil pressure were adjusted so as to limit the estimated total settlements to about one (1) inch.

The evaluation was made on the basis of the least favorable soil conditions combined with the most severe loading conditions. It is therefore anticipated that the settlements in general will be less than the above limit, unless otherwise stated. Differential movements are expected to be on the order of three quarters of an inch maximum which is about 75 percent of the expected settlement. Most structures can readily tolerate such movements, however, it would be advisable to review the design of the proposed structure for this project considering the above mentioned settlement limits.

# CONCLUSIONS AND RECOMMENDATIONS GENERAL

- 1. The bottom of all excavations should be inspected at the time of construction by a representative of Pittsburgh Testing Laboratory to assure that all undesirable material has been removed, and the desired bearing material has been reached. The entire area should be proof-rolled with a heavy roller, in an attempt to locate soft surface areas. All soft soils, miscellaneous fill and organic soils should be removed and replaced with suitable fill material.
- 2. The materials used as backfill should be inspected by a soils engineer or his representative and approved prior to being used. A sufficient number of field density tests should be performed to assure that the specified compaction requirements are being fulfilled.
- 3. All soil placed under footings should be compacted to at least 100 percent of the maximum dry density as determined by A.S.T.M. Designation D-1557.
- 4. All soil placed around or above footings should be compacted to at least 93% of the maximum dry density as determined by A.S.T.M. Designation D-1657.

- 5. Rigid moisture control of soils should be maintained during construction of controlled backfills. The soils should be compacted at or near the optimum moisture content as determined by A.S.T.M. Designation D-1557.
- 6. If a compacted fill is used under footings at the site, it is recommended that the engineered compacted fill be constructed from a granular non-plastic, well-graded material. The fill should be compacted in layers not to exceed six to eight inches in compacted thickness. Pit rum or bank run granular soils, road base material and other similar soils are usually good materials for this type of compacted fill.

The width of the compacted fill under the footings should be equal to the width of the footing plus a dimension equal to two times the thickness dimension of the engineered compacted fill under the bottom of the footing.

- 7. Extreme care should be taken not to allow weakening of the foundation soils because of prolonged atmospheric exposure, disturbance or an increase in water content of the foundation soils. Should a delay in concrete placement be anticipated, footing excavations should be finished about 6 inches high and subsequently cut to grade immediately before placement.
- 8. It is recommended that the floor slabs be supported on at least 12 inches of base course of relatively clean granular material such as sand, sand and gravel or crushed stone. This granular base course will help distribute concentrated loads and equalize moisture conditions beneath the slabs.
- 9. The floor slab should be floating, that is not structurally connected to the walls or foundations. This is to minimize the possibility of undue cracking of the floor slab because of differential movement between the slab and the foundation. Such movements may be excessive for rigid connections between the foundations and a ground supported slab.
- 10. All continuous (wall type) footings should be a minimum of 18 inches in width for bearing capacity considerations.
- 11. Adequate drainage should be provided at the site. All final grades, pavements and parking areas should be sloped away from the structure.

# Specific

- 1. Due to the extremely variable nature and condition of the surficial fill material encountered at borings 1 and 2, it would be advisable to completely remove this material within the structure and any other paved areas, and replace it with an engineered compacted fill. Before backfilling, the area should be proof-rolled with a heavy roller and any soft areas disclosed by this operation should also be removed.
- 2. If proposed structures or paved areas are to be placed over existing ponds, the ponds should be drained, soft sediments should be removed down to stable soils, and backfilling should be accomplished with an engineered compacted fill. Proof rolling would be advisable in these areas also. These operations should be supervised by a representative of Pittsburgh Testing Laboratory.
- 3. If the above recommendations are followed, a net allowable bearing pressure of 2,000 psf can be used. When using net pressures, the weight of the footing and backfill over the footing need not be considered.
- 4. If the footings are designed as recommended above, the resulting settlements should be within tolerable limits.
- 5. Due to the depth of some proposed excavations, it is anticipated that dewatering problems will be encountered.
- 6. It is likely that bedrock will be encountered before reaching the anticipated bottom depth at the location of the south clarithickener and the Reactor Clarifier. The bedrock may also be encountered in some of the other deeper excavation locations, but additional borings would be needed to verify this.
- 7. The structures located below the water table will have to be designed to resist the uplift forces resulting from the high water rable in the area.

We appreciate this assignment and trust the above information will provide the data required for design purposes. If we can be of any further assistance, please advise.

Respectfully submitted,
PITTSBURGH\_TESTING LABORATORY

N. Ray Neel, Manager Indianapolis District

- Muy

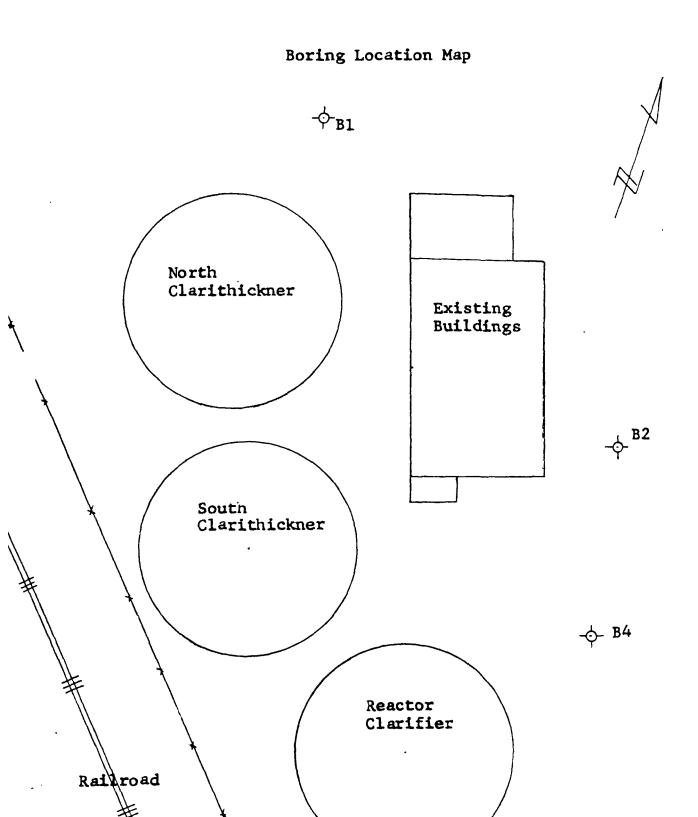
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# Appendix

- 1. Map of Boring Locations
- 2. Chart of Soil Classification
- 3. Log of Borings
- 4. Chart of Unconfined Compressive Strength of Soils

**B**3

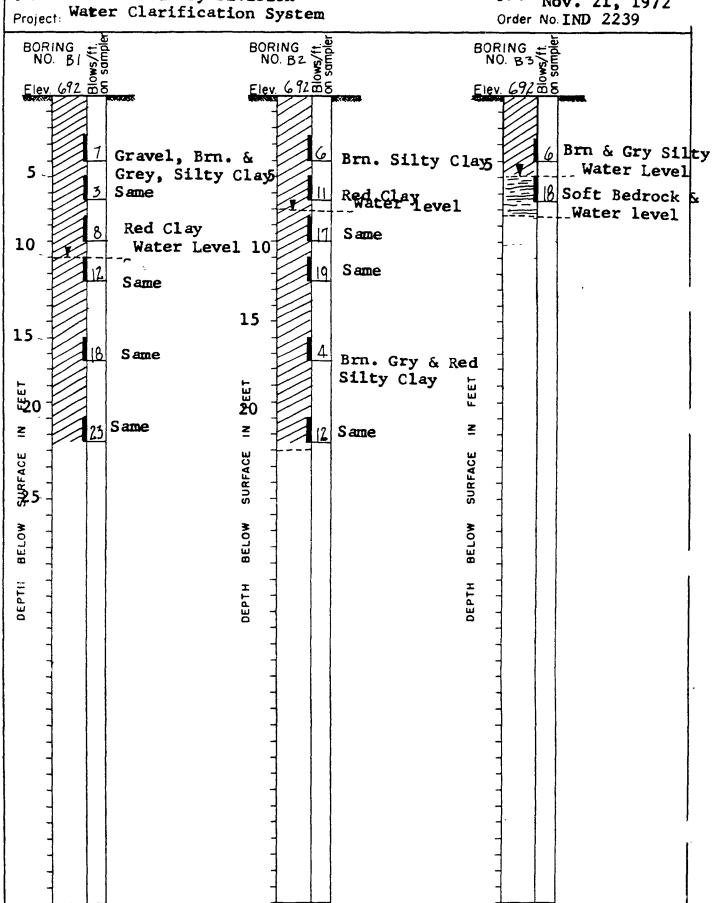
Scale 1" = 20'

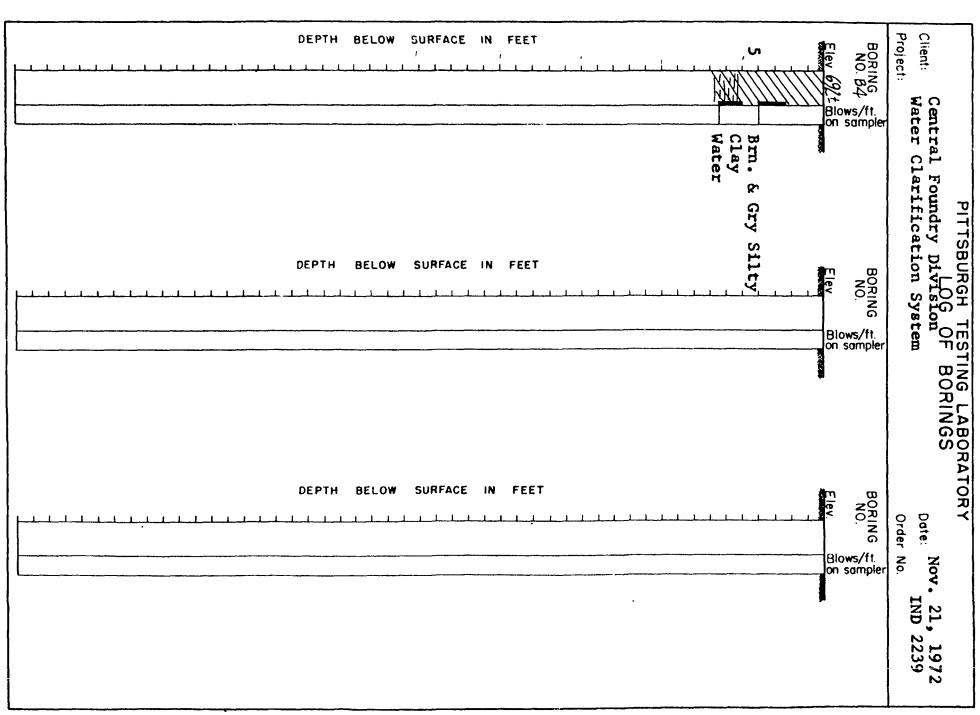


# PITTSBURGH TESTING LABORATORY LOG OF BORINGS

Client: Central Foundry Division

Date: Nov. 21, 1972





Central Foundry Division General Motors Corporation Bedford Plant Bedford, Indiana 47421 Pittsburgh Testing Laboratory
IND 2239 Nov. 22, 1972

# Unconfined Compressive Strength of Soils

| Sample # | Boring No. | Depth in Ft. | % Moisture | Wet Density<br>lbs. Cu. Ft | Dry Density<br>lbs. Cu. ft. | Load Tons Ft. 2 |
|----------|------------|--------------|------------|----------------------------|-----------------------------|-----------------|
|          |            |              |            |                            |                             |                 |
| 1        | 1          | 73-9         | 30.7       | 109.3                      | 83.6                        | 1.47            |
| 2        | 2          | 5-63         | 29.3       | 104.5                      | 80.8                        | 1.82            |
| 1        | 2          | 15-16}       | 25.1       | 135.5                      | 108.3                       | 0.69            |

| ,                                            |                                                                               |                                                      | GROUP<br>SYMBOLS                       |       | S TYPICAL NAMES                                                                                                    |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------|--|--|
|                                              | GRAVELS (More than 50% of coarse fraction is LARGER than the No 4 sieve size) | CLEAN<br>GRAVELS<br>(Little or no fines)             | 0.030                                  | GW    | Well graded gravels gravel sand mixtures little or no fines                                                        |  |  |
|                                              |                                                                               |                                                      |                                        | GP    | Poorly graded gravels or gravel sand mixtures, little or no fine                                                   |  |  |
| COARSE                                       |                                                                               | GRAVELS<br>WITH FINES                                |                                        | GM    | Silty gravels, gravel - sand silt mixtures                                                                         |  |  |
| GRAINED<br>SOILS<br>More than 50% of         |                                                                               | (Appreciable amt of fines)                           | 2/:/                                   | GC    | Clayey gravels, gravel sand - clay mixtures                                                                        |  |  |
| material is LARGER than No 200 sieve         |                                                                               | CLEAN SANDS                                          | s                                      | sw    | Well graded sands, gravelly sands, little or no fines                                                              |  |  |
| size)                                        | SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 sieve size) | (Little or no fines)                                 | S                                      | SP    | Poorly graded sands or gravelly sands, little or no fines                                                          |  |  |
|                                              |                                                                               | SANDS<br>WITH FINES<br>(Appreciable amt<br>of fines) | S                                      | SM    | Silty sands, sand silt mixtures                                                                                    |  |  |
|                                              |                                                                               |                                                      | s                                      | sc    | Clayey sands, sand-clay mixtures                                                                                   |  |  |
|                                              | SILTS AND CLAYS<br>(Liquid limit LESS than 50)                                |                                                      | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ИL    | Inorganic silts and very fine sands, rock flour, silty or clayer fine sands or clayer silts with slight plasticity |  |  |
| FINE                                         |                                                                               |                                                      | ·                                      | CL    | Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays                  |  |  |
| GRAINED<br>SOILS<br>More than 50% of         |                                                                               |                                                      |                                        | )L    | Organic silts and organic silty clays of low plasticity                                                            |  |  |
| material is SMALLER than No. 200 sieve size) | SILTS AND CLAYS (Liquid limit GREATER than 50)                                |                                                      | N                                      | ин    | Inorganic silts, micaceous or diatomaceous fine sandy or silt soils, elastic silts                                 |  |  |
|                                              |                                                                               |                                                      |                                        | СН    | Inorganic clays of high plasticity, fat clays                                                                      |  |  |
|                                              |                                                                               |                                                      |                                        | эн    | Organic clays of medium to high plasticity, organic silts                                                          |  |  |
| ніс                                          | GHLY ORGANIC SOILS                                                            |                                                      |                                        | Pt    | Peat and other highly organic soils                                                                                |  |  |
| OUNDARY CLASSIFIC                            | CATIONS Soils possessi                                                        | ng characteristics of tw                             | o groups                               | are d | esignated by combinations of group symbols                                                                         |  |  |
|                                              | РА                                                                            | RTICLE                                               | SIZ                                    | E     | LIMITS                                                                                                             |  |  |
| SILT OR CLAY  SAND  FINE MEDIUM COARSE       |                                                                               |                                                      |                                        |       | GRAVEL COBBLES BOULDERS                                                                                            |  |  |

| SILT OR CLAY | SAND  |        |        | GRAVEL |        | COBBLES | BOULDERS |
|--------------|-------|--------|--------|--------|--------|---------|----------|
| SIET ON CEAT | FINE  | MEDIUM | COARSE | FINE   | COARSE | CODDEES | L        |
| No           | 200 N |        | 10 NO  |        | . ,    | in (1   | 2 in )   |

#### RELATIVE DENSITY (sand-silt)

Very Loose - Less than 4 blows per foot

Loose - 4 to 10 blows/ft

Medium -10 to 30 blows/ft.

Dense - 30 to 50 blows/ft

Very Dense - More than 50 blows/ft

### CONSISTENCY (clay)

Very Soft - Less than 2 blows per foot

Soft – 2 to 4 blows/ft

Medium - 4 to 8 blows/ft

Stiff - 8 to 15 blows/ft

Very Stiff - 15 to 30 blows/ft

Hard - More than 30 blows/ft

#### KEY TO BORING LOGS



Number of blows of a 140-lb weight falling 30 in in req'd to drive st'd. spoon one foot.



Thin-wall Shelby tube undis turbed sampler used



Free ground water level



Percent core recovery from rock core-drilling operations



Sample not recovered



Fill



Limestone



Sandstone



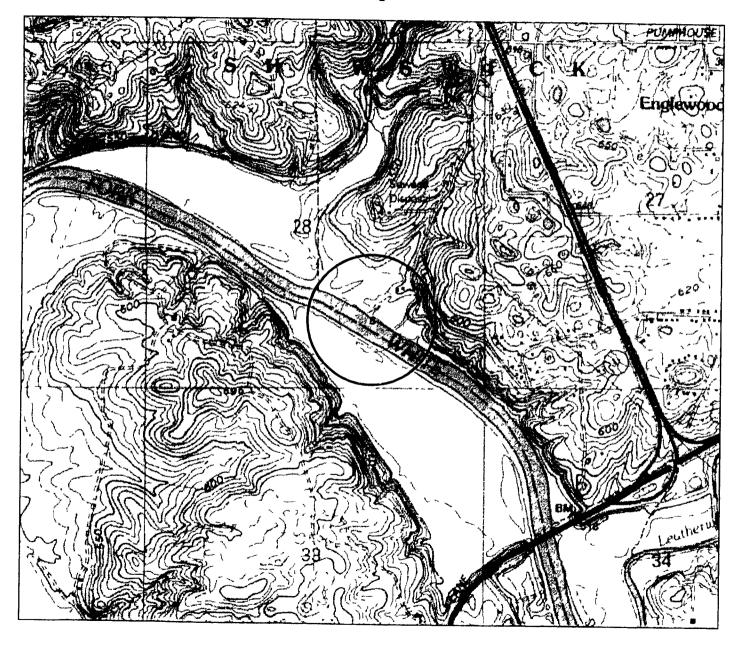
Igneous Rock

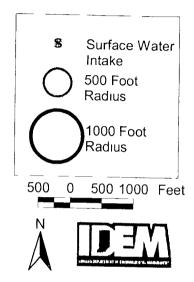


Shale

# APPENDIX D.3 SURFACE WATER INTAKES

# **Bedford City Utilities**





# Mitchell Water Department

