

Site: Parker Landfill
Break: 3.6
Other: _____

Parker Landfill Project
Lyndonville, Vermont
Project No. 4905024



SDMS DocID

461460

REMEDIAL INVESTIGATION REPORT

VOLUME 7 OF 10
APPENDICES G, H, & I

Prepared on Behalf of:

THE PARKER LANDFILL TASK GROUP
LYNDONVILLE, VERMONT

Prepared By:

ENVIRONMENTAL SCIENCE &
ENGINEERING, INC. (ESE)

Submitted To:

U.S. EPA REGION 1
BOSTON, MASSACHUSETTS

DRAFT: NOVEMBER 12, 1992
FINAL: JANUARY 18, 1994
REVISED: APRIL 2, 1994



APPENDIX G

GW MONITORING WELL INSTALLATION REPORTS

**Note: Refer to Figure 2-18 and/or
Plate D for Monitoring Well Locations**

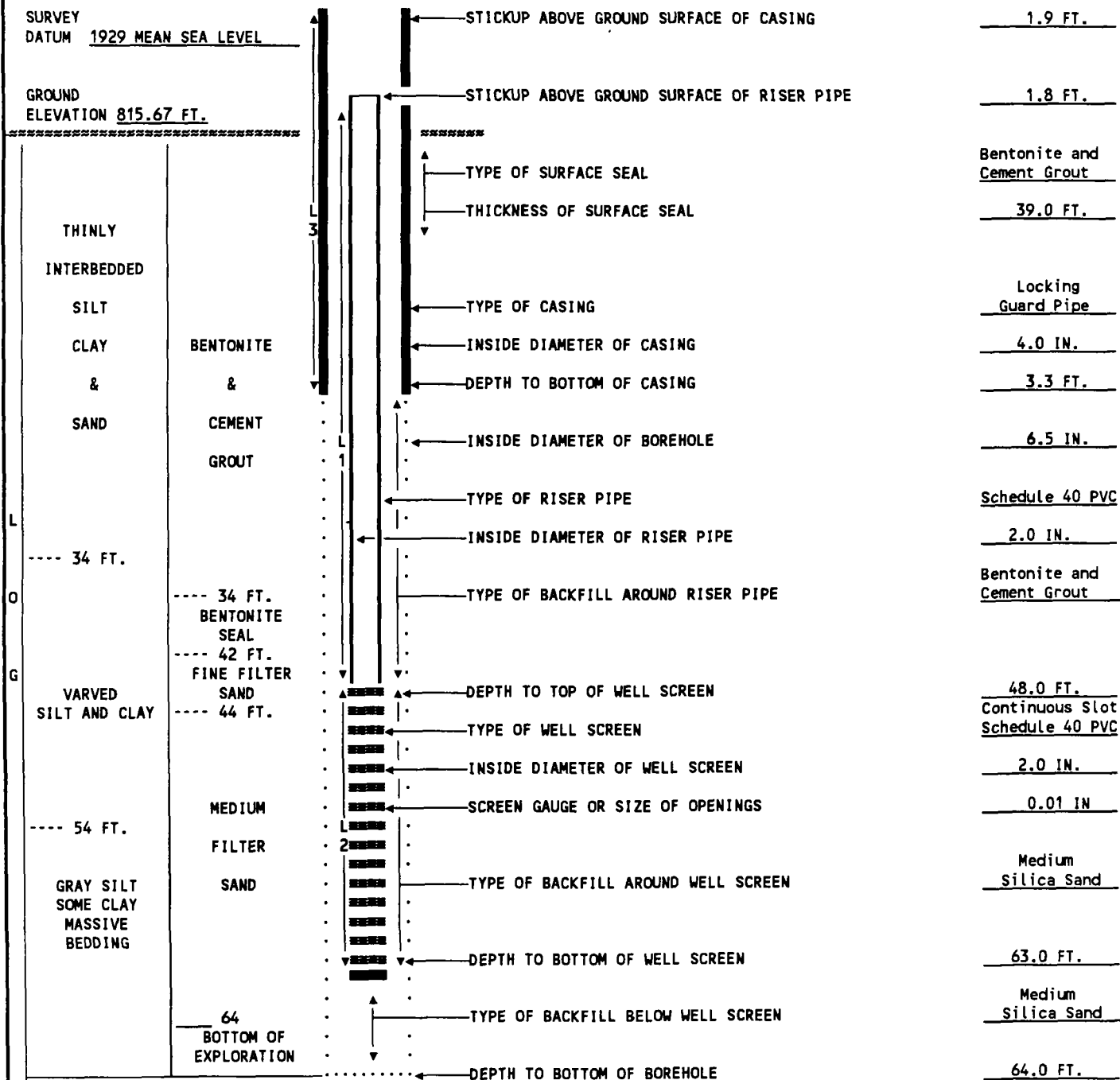
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 101 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. HAYES, J. STONE EDI

BORING NO. B 101 A
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: MAY 7, 1991
ESE Rep. P. BRUNO



$$\left[\frac{5.2 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{49.8 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{64.8 \text{ FT.}}{\text{PAY LENGTH}}$$

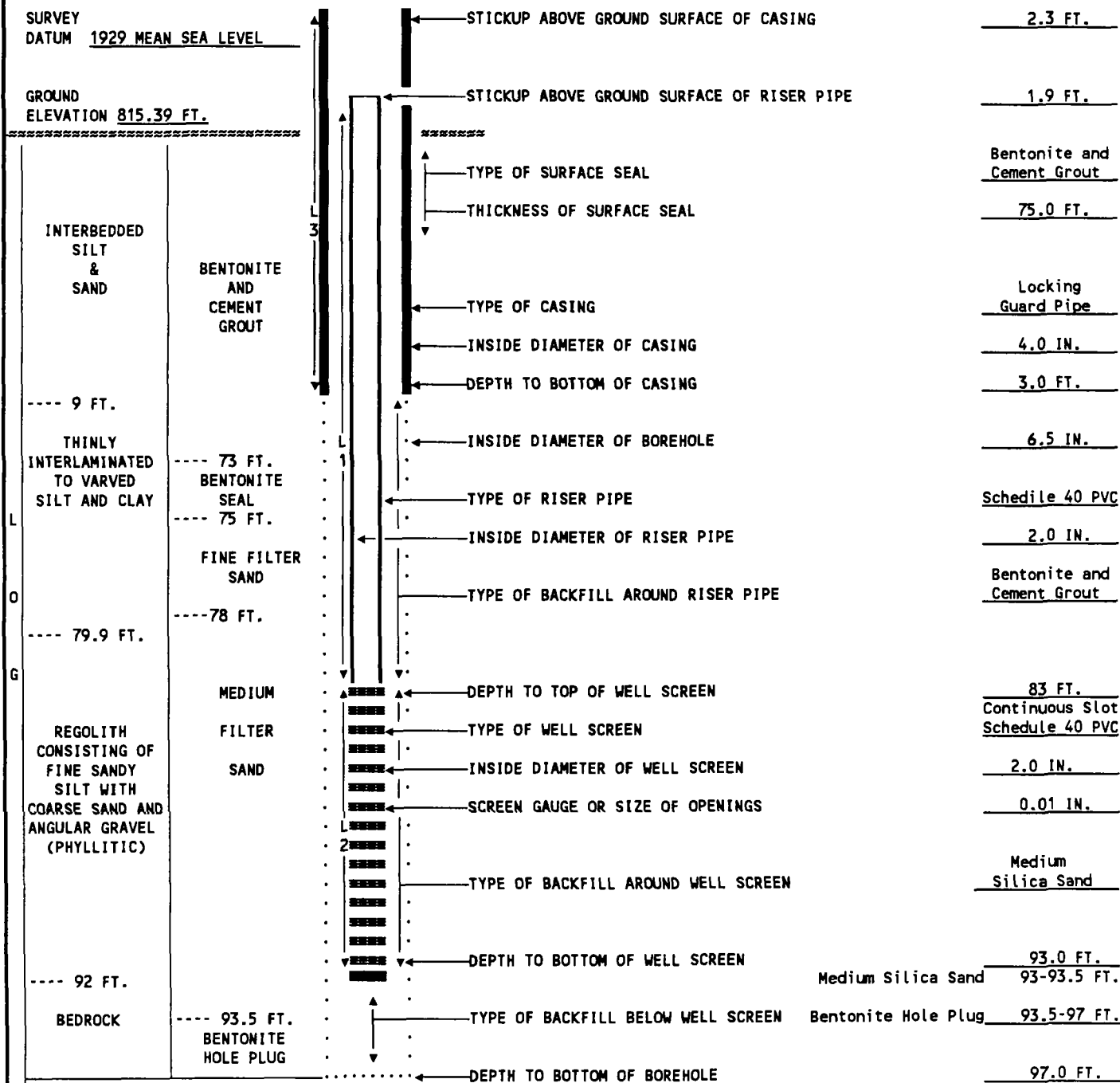
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 101 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): BRIAN HAYES, JEFF STONE, EDI

BORING NO. B 101 B
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: MAY 3, 1991
ESE Rep. P. BRUNO



$$\left[\frac{5.3 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{84.9 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{94.9 \text{ FT.}}{\text{PAY LENGTH}}$$

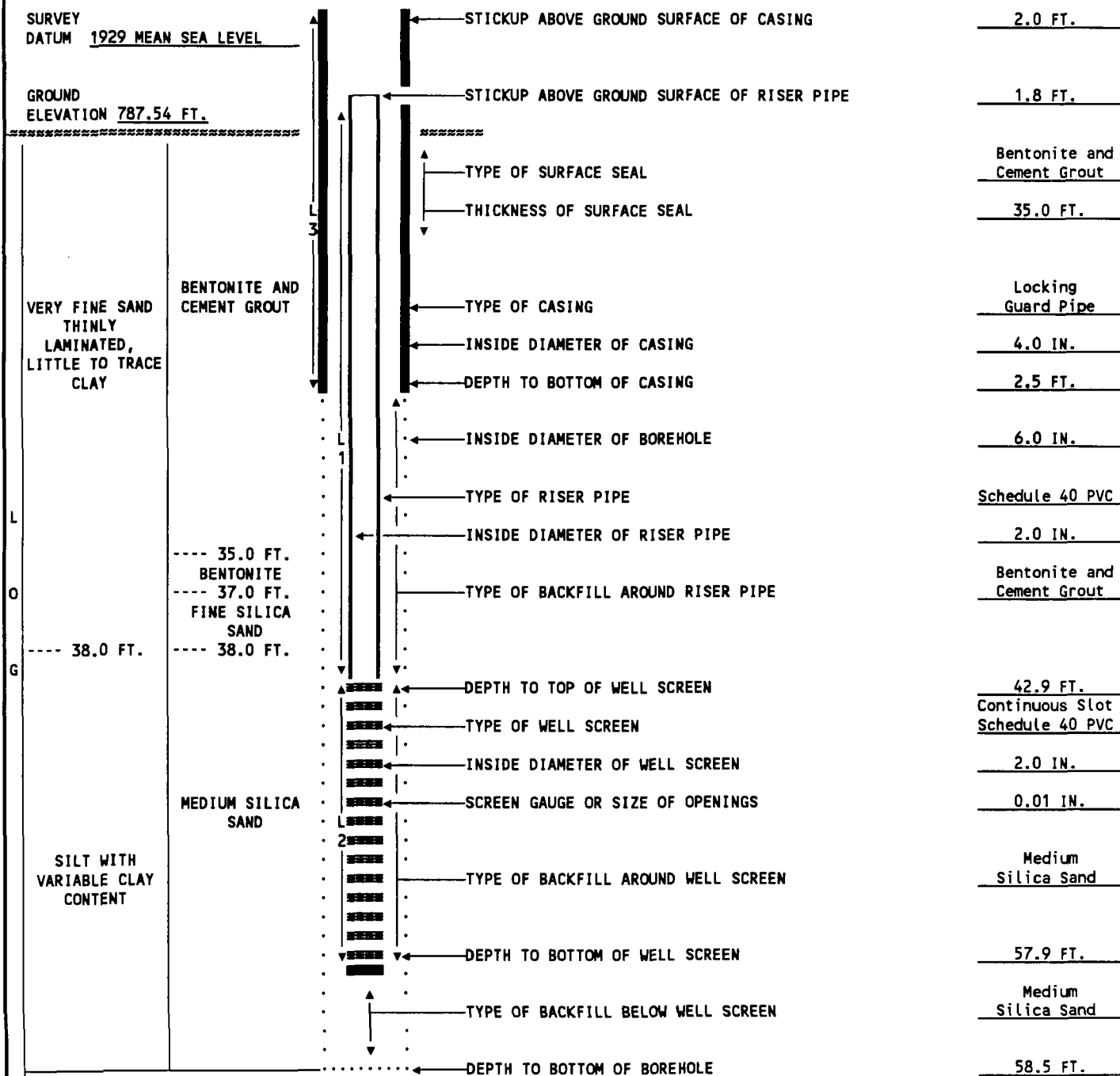
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G102A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): A. J. CARON (EDI)

BORING NO. B102
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: MAY 17, 1991
ESE Rep. JIM BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{45.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{60.5 \text{ FT.}}{\text{PAY LENGTH}}$$

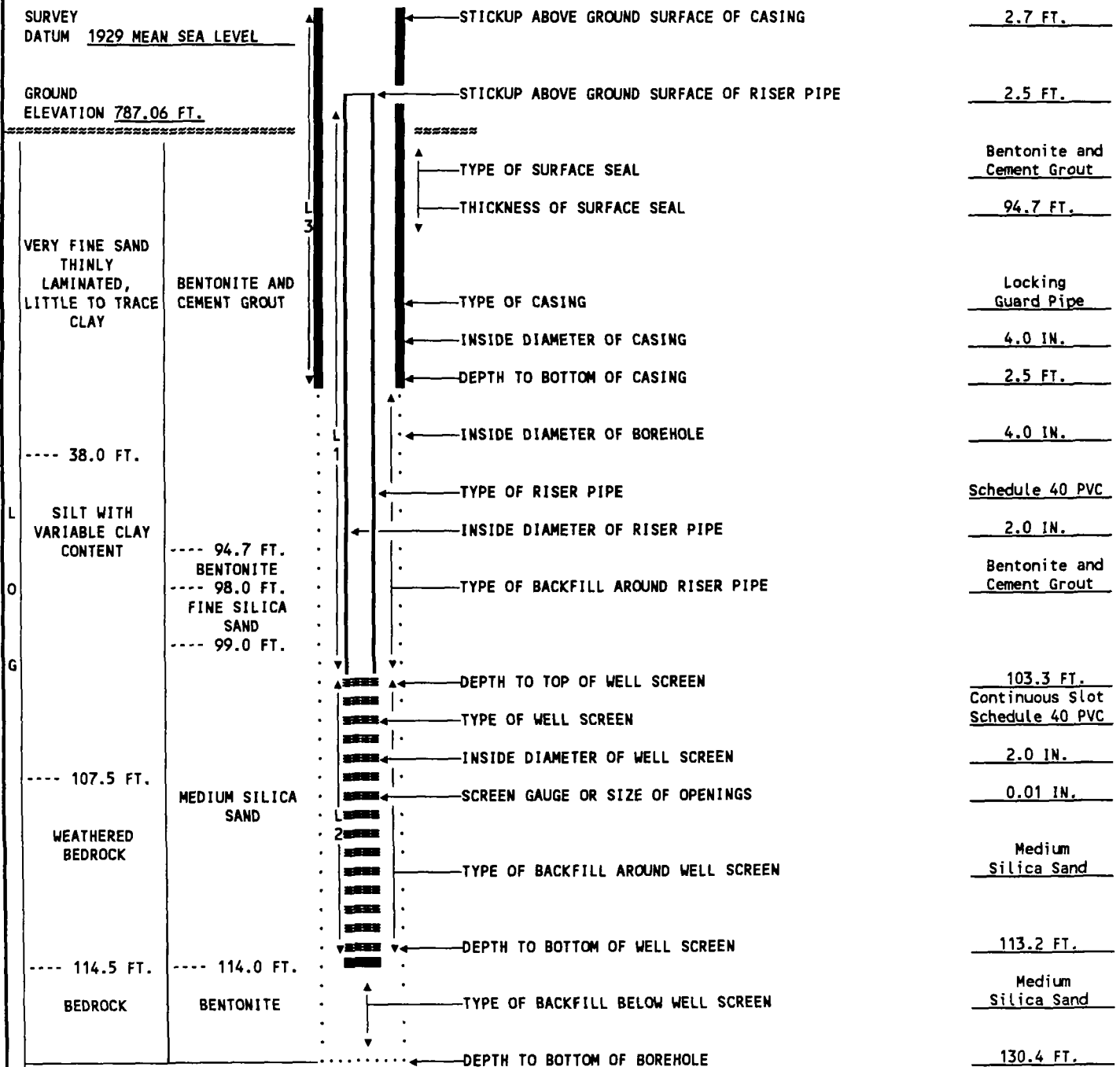
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G102B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(s): A. J. CARON (EDI)

BORING NO. B102
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: MAY 15, 1991
ESE Rep. JIM BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{122.9 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = 132.9 \text{ FT. PAY LENGTH}$$

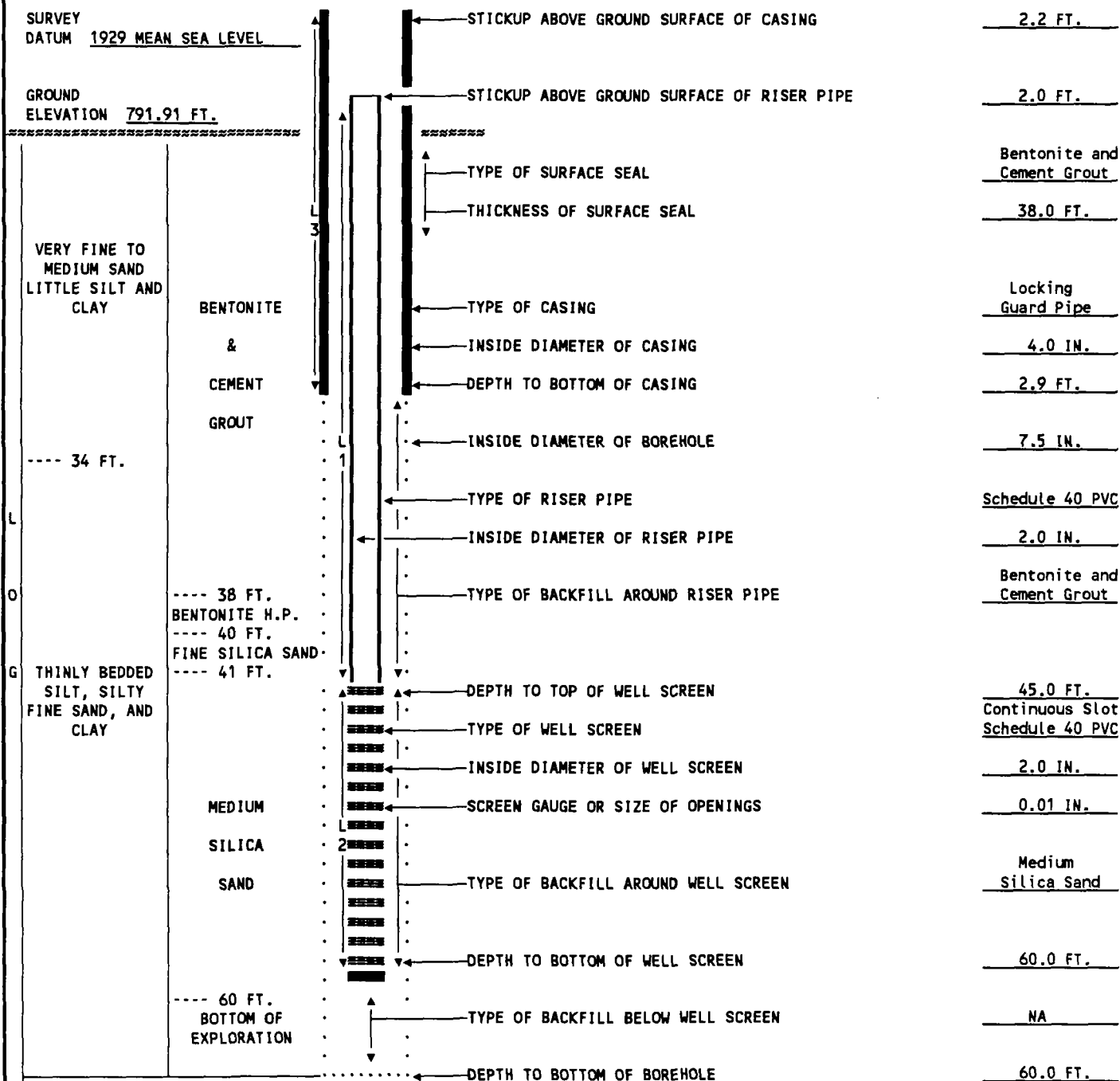
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 103 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): BRIAN HAYES, JEFF STONE, JACK FRANCIS EDI

BORING NO. B 103 A
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: MAY 20, 1991
ESE Rep. P. BRUNO



(FIGURE NOT TO SCALE)

$$\left[\frac{5.1 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{47.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{62.0 \text{ FT.}}{\text{PAY LENGTH}}$$

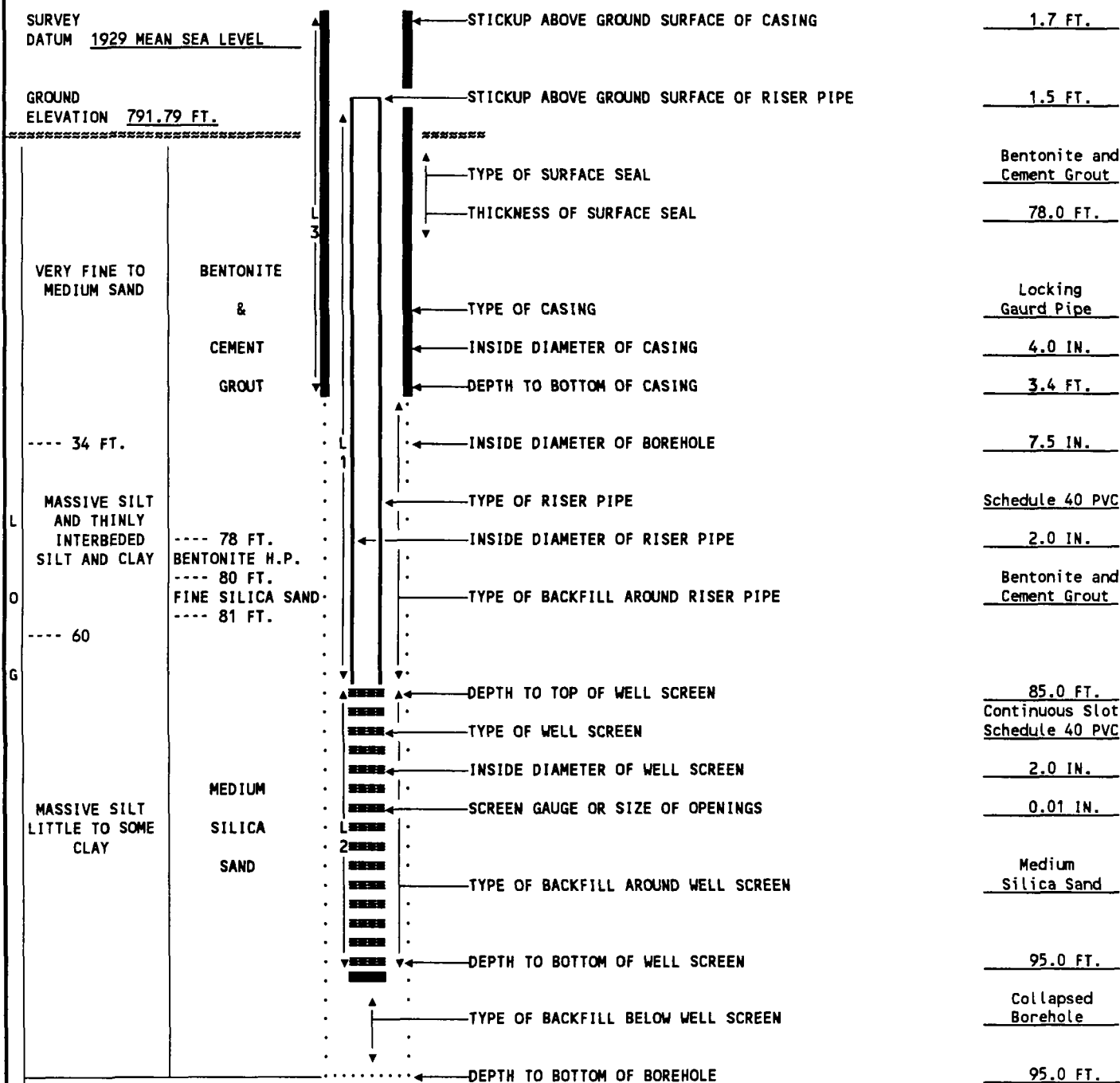
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 103 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): BRIAN HAYES, JACK FRANCIS EDI

BORING NO. B 103 B
LOCATION: SEE PLAN
WELL TYPE: INTERMEDIATE
INSTALL. DATE: MAY 20 1991
ESE Rep. P. BRUNO



(FIGURE NOT TO SCALE)

$$\left[\frac{5.1 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{86.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{96.5 \text{ FT.}}{\text{PAY LENGTH}}$$

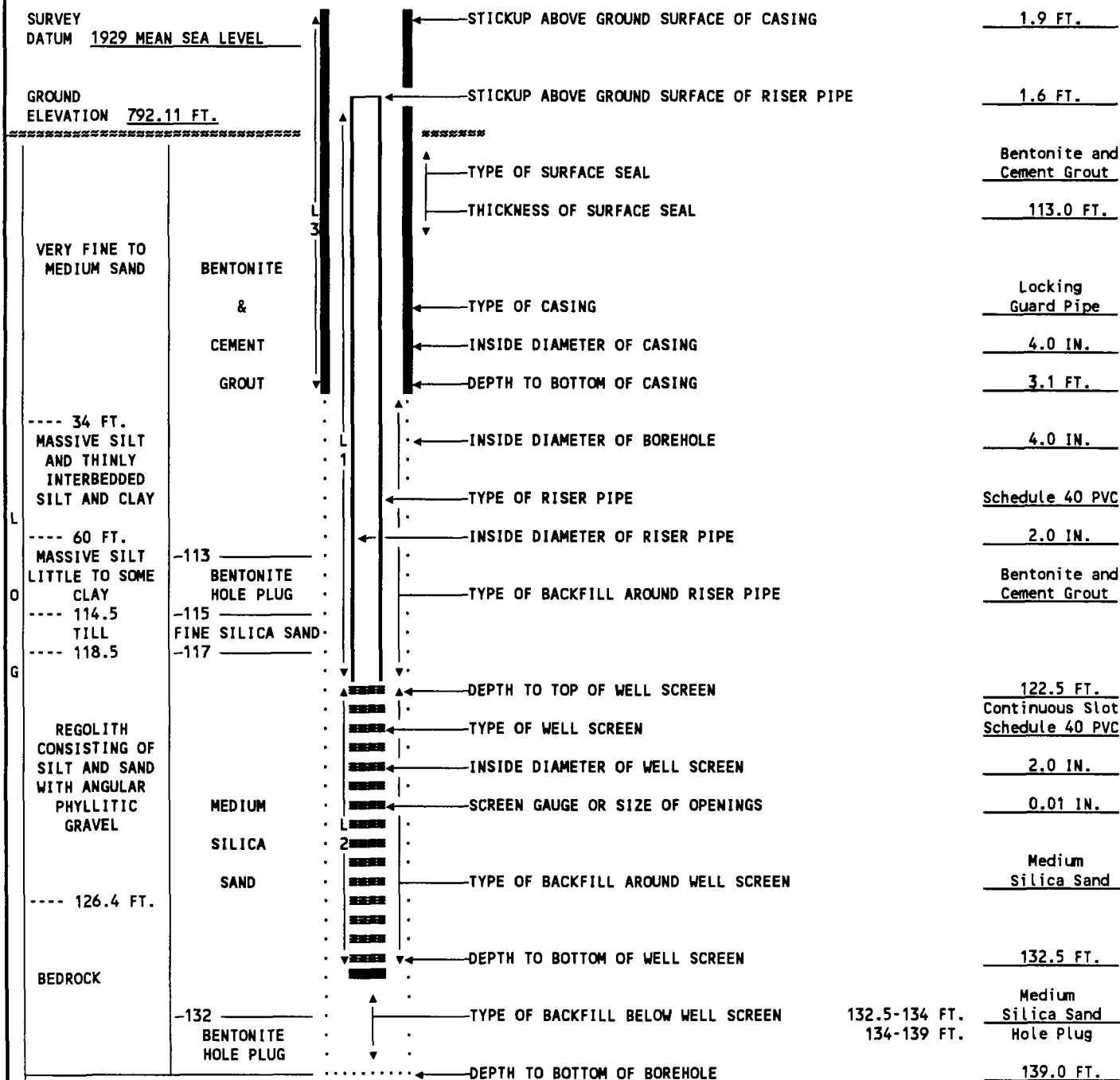
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 103 C
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): BRIAN HAYES, JEFF STONE EDI

BORING NO. B 103 C
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: MAY 16, 1991
ESE Rep. P. BRUNO



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{124.4 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{134.4 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 104
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): A.J. CARON, J. FRANCIS EDI

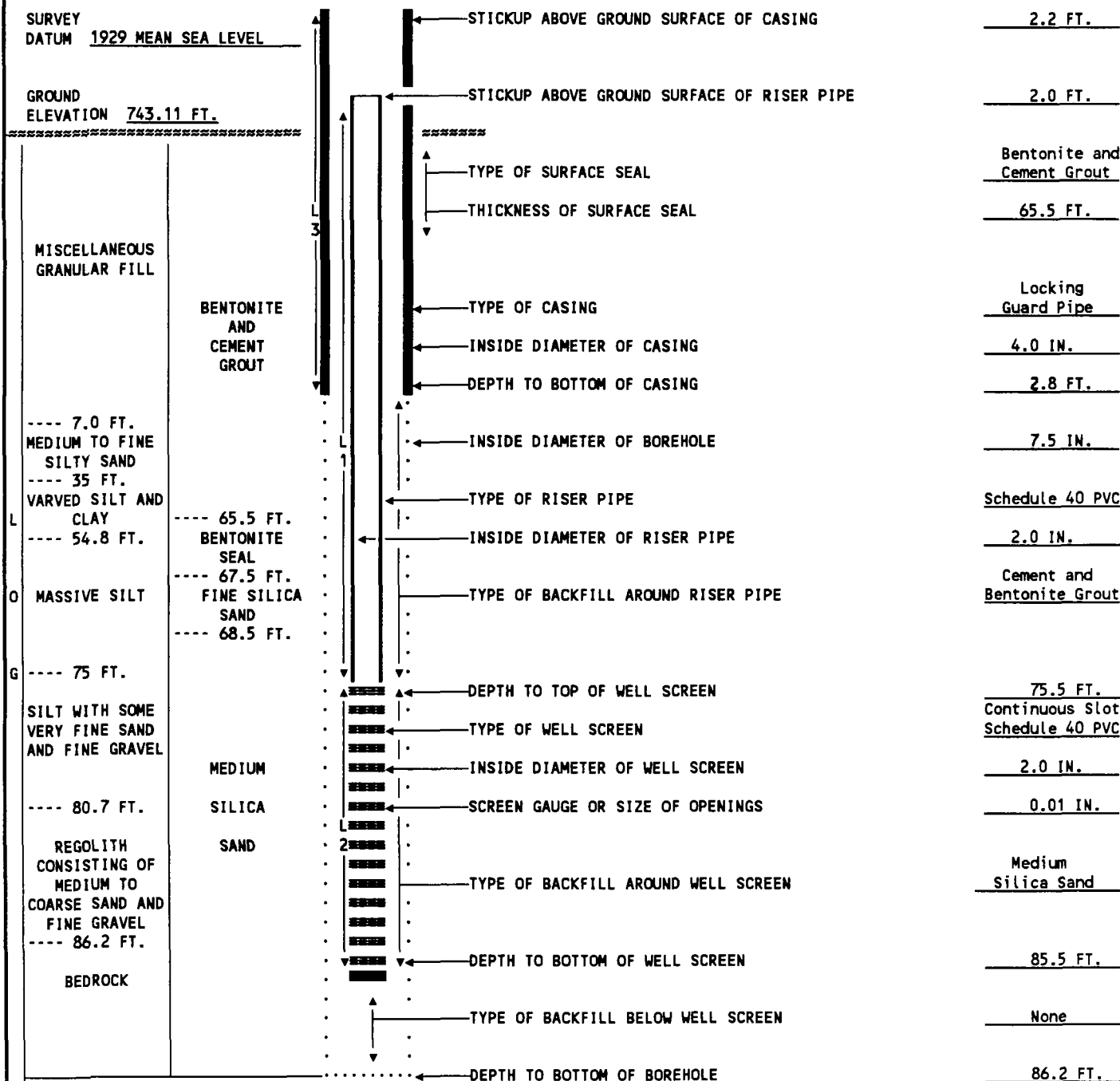
BORING NO. B 104

LOCATION: SEE PLAN

WELL TYPE: TOR

INSTALL. DATE: MAY 21 1991

ESE Rep. J. BANNON



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{77.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{87.5 \text{ FT.}}{\text{PAY LENGTH}}$$

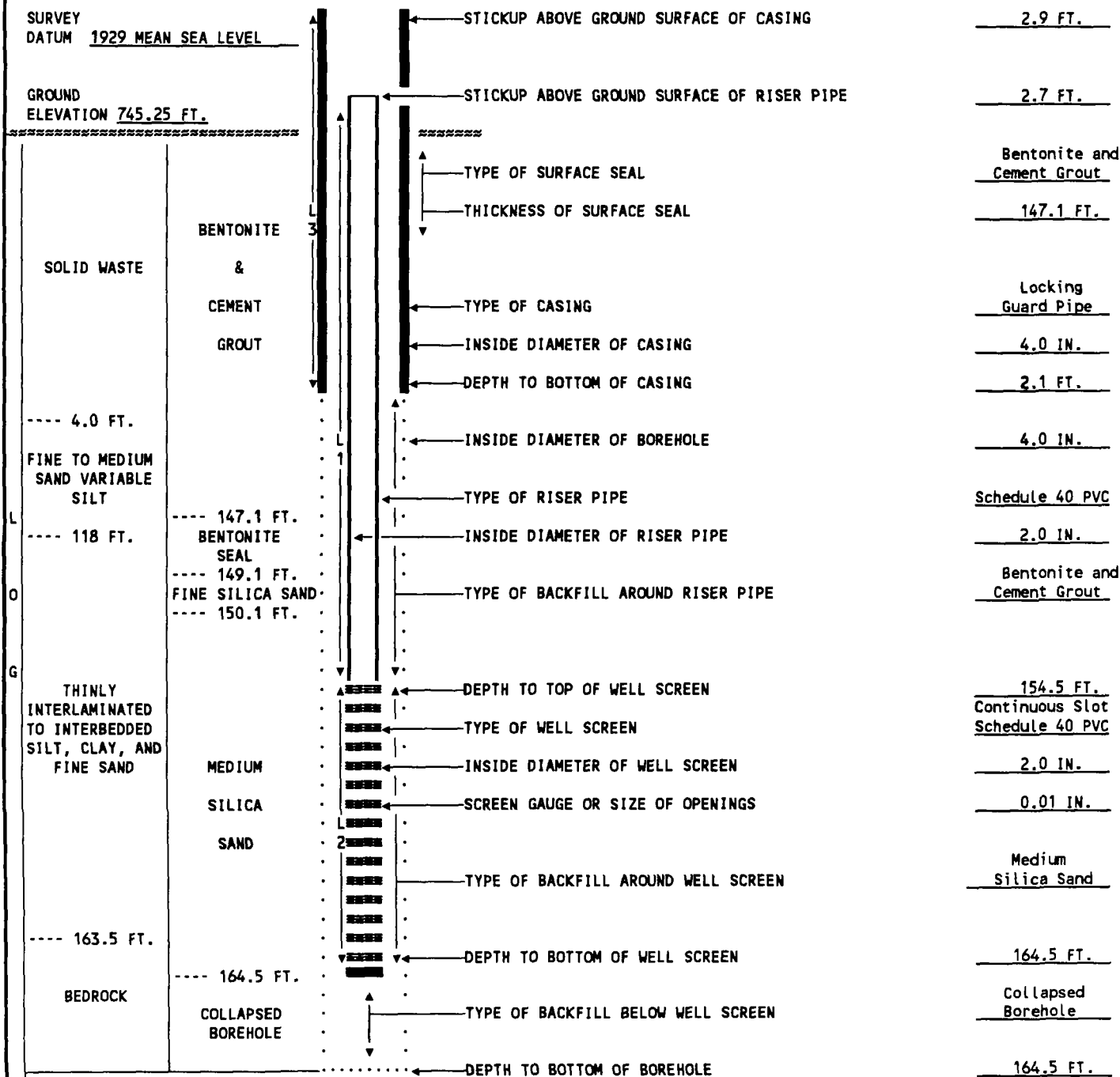
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 105
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): A.J. CARON EDI

BORING NO. B 105
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JULY 18 1991
ESE Rep. J. BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{157.2 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{167.2 \text{ FT.}}{\text{PAY LENGTH}}$$

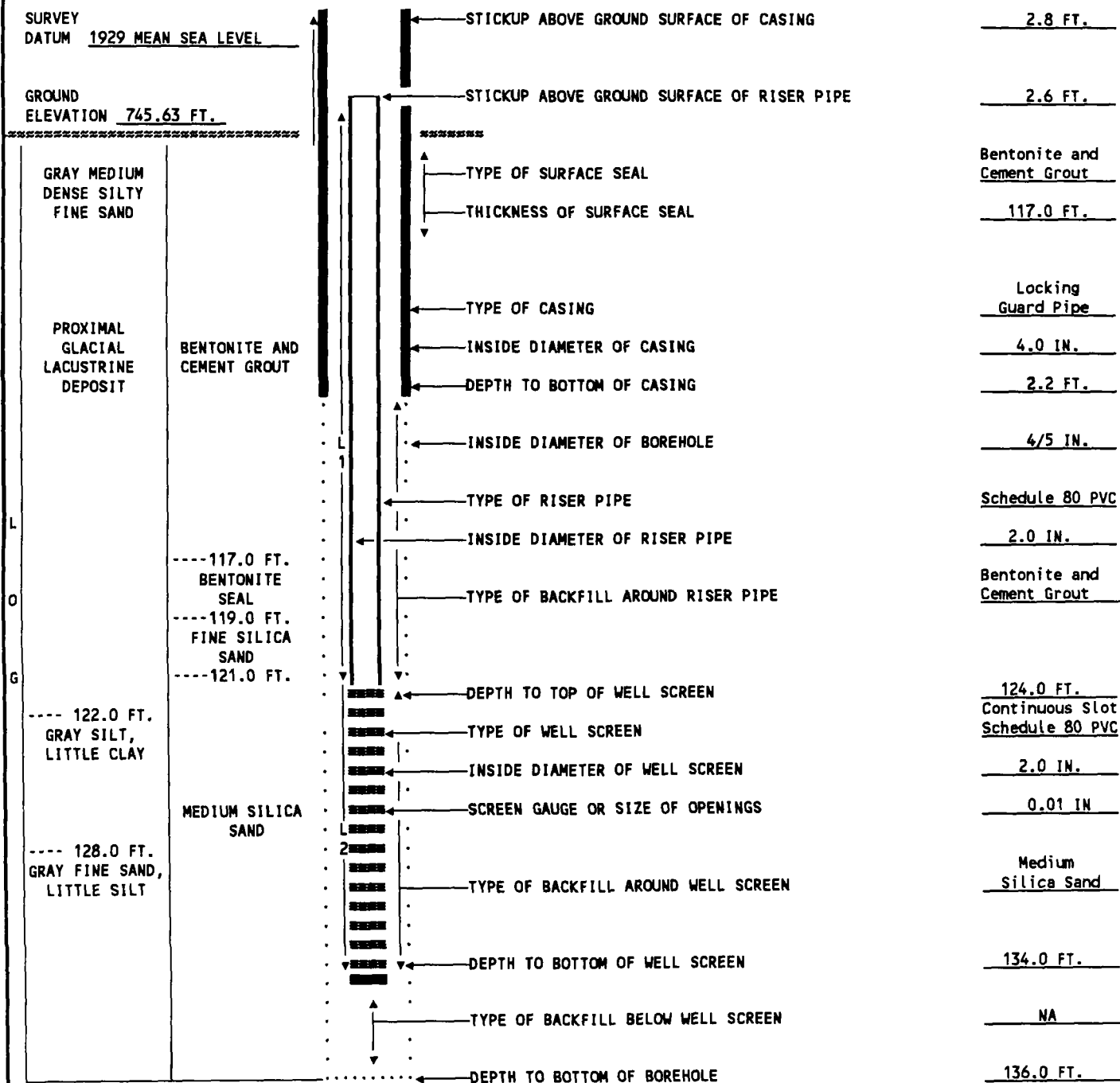
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B1051
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(s): S. LAMARCHE

BORING NO. B1051
LOCATION: SEE PLAN
TYPE WELL: TOP OF DISTAL
INSTALL. DATE: MAY 28, 1992
ESE Rep. J. BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{124.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{134.0 \text{ FT.}}{\text{PAY LENGTH}}$$

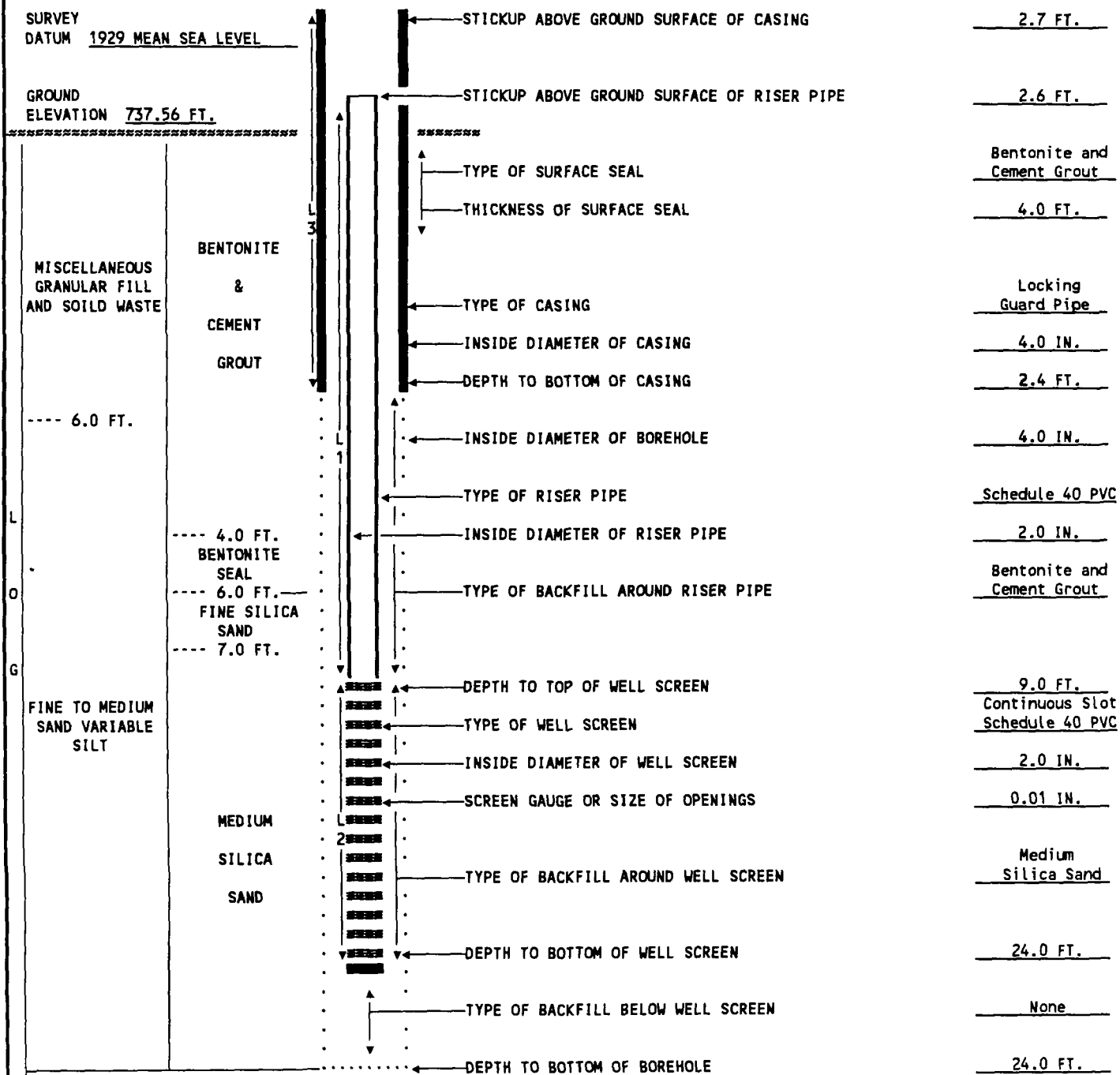
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 106 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): A.J. CARON EDI

BORING NO. B 106 A
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: JUNE 25 1991
ESE Rep. J. BANNON



$$\left[\frac{5.1 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{11.6 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{26.6 \text{ FT.}}{\text{PAY LENGTH}}$$

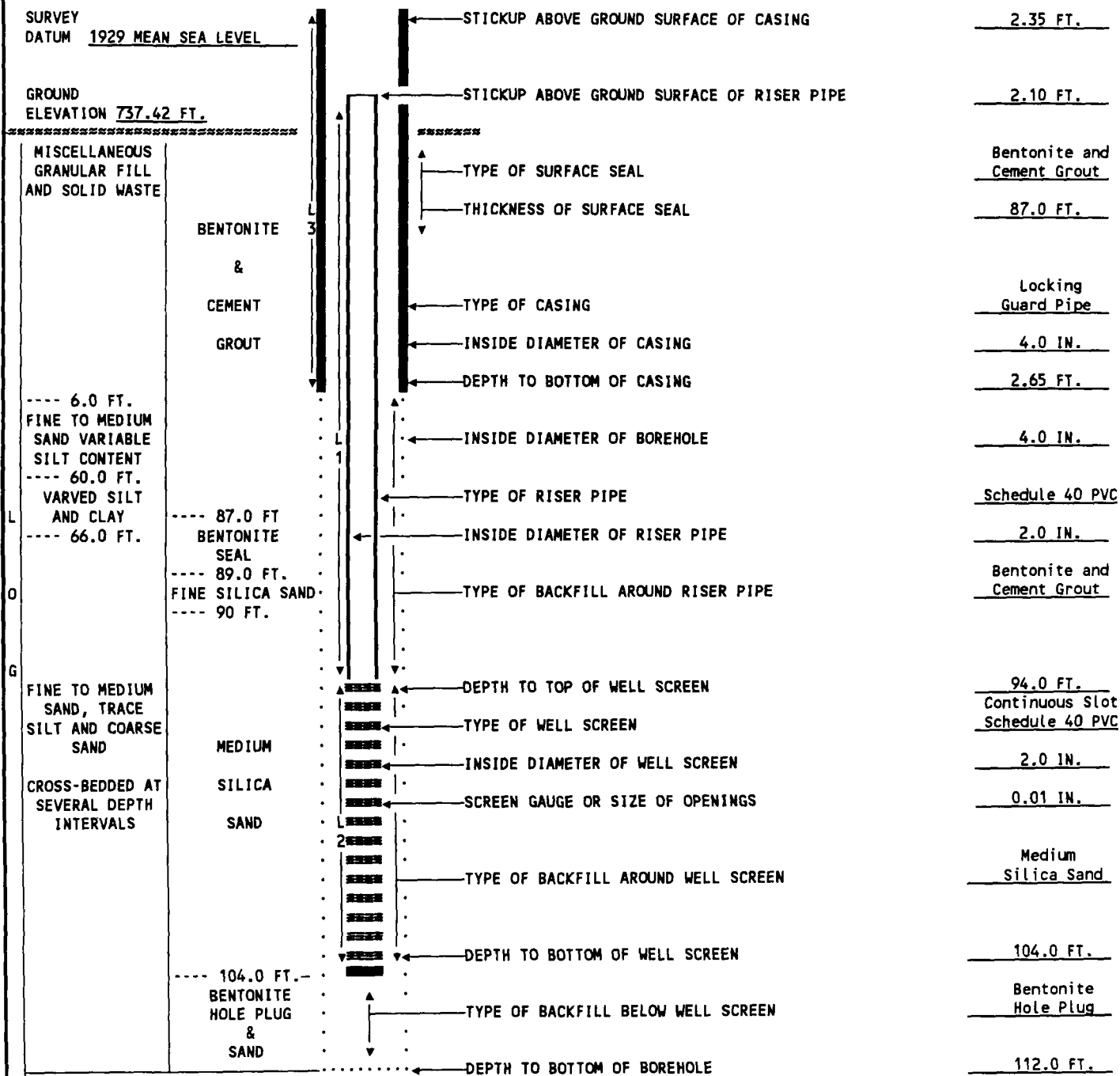
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 106 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): A.J. CARON EDI

BORING NO. B 106 B
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JUN 29 1991
ESE Rep. J. BANNON



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{96.1 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{106.1 \text{ FT.}}{\text{PAY LENGTH}}$$

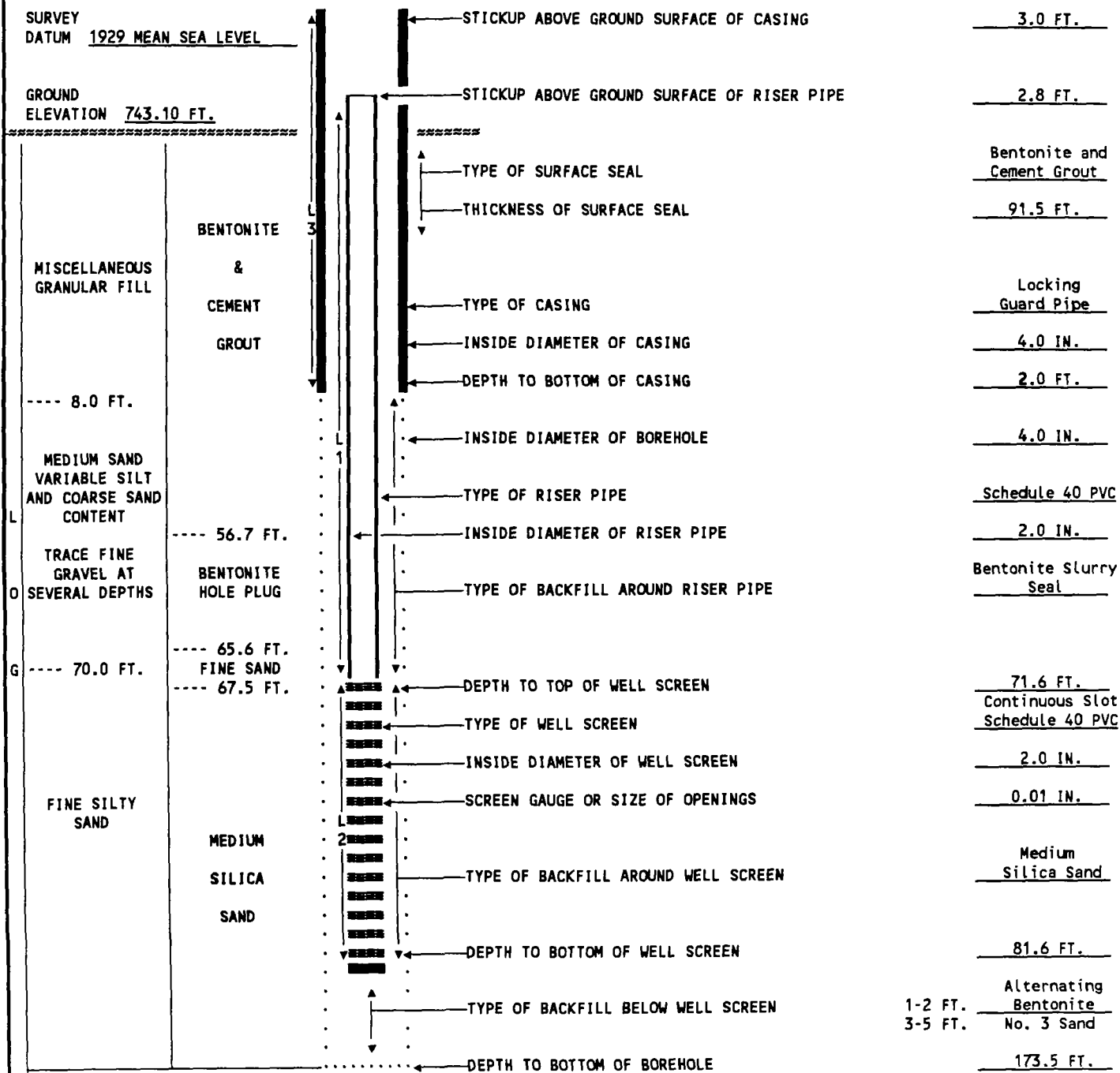
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 107
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): A.J. CARON EDI

BORING NO. B 107
LOCATION: SEE PLAN
WELL TYPE: INTERMEDIATE
INSTALL. DATE: JUNE 21 1991
ESE Rep. J. BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{74.4 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{84.4 \text{ FT.}}{\text{PAY LENGTH}}$$

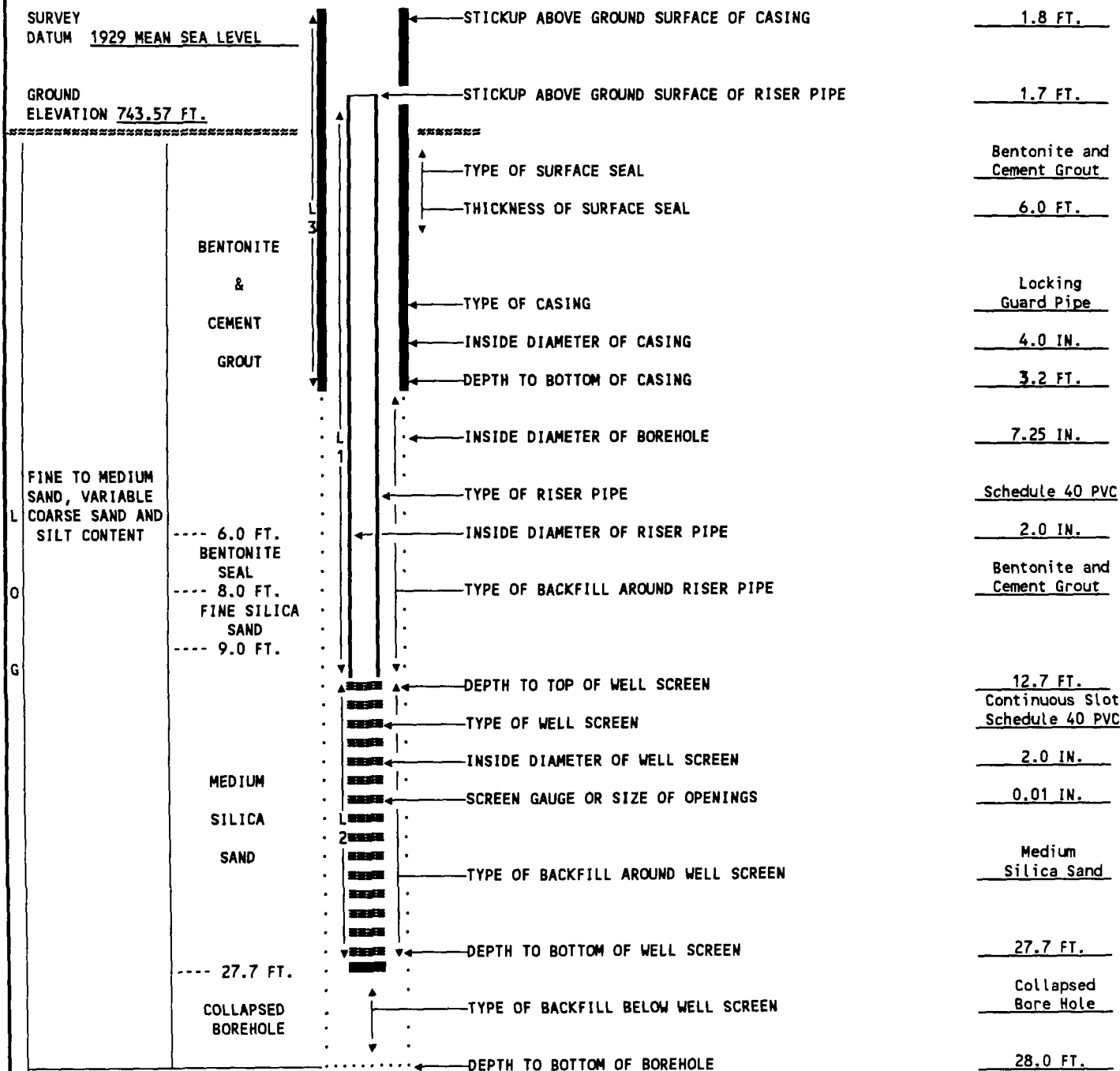
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 108 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): A.J. CARON EDI

BORING NO. B 108 A
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: JUNE 4 1991
ESE Rep. J. BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{14.4 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{29.4 \text{ FT.}}{\text{PAY LENGTH}}$$

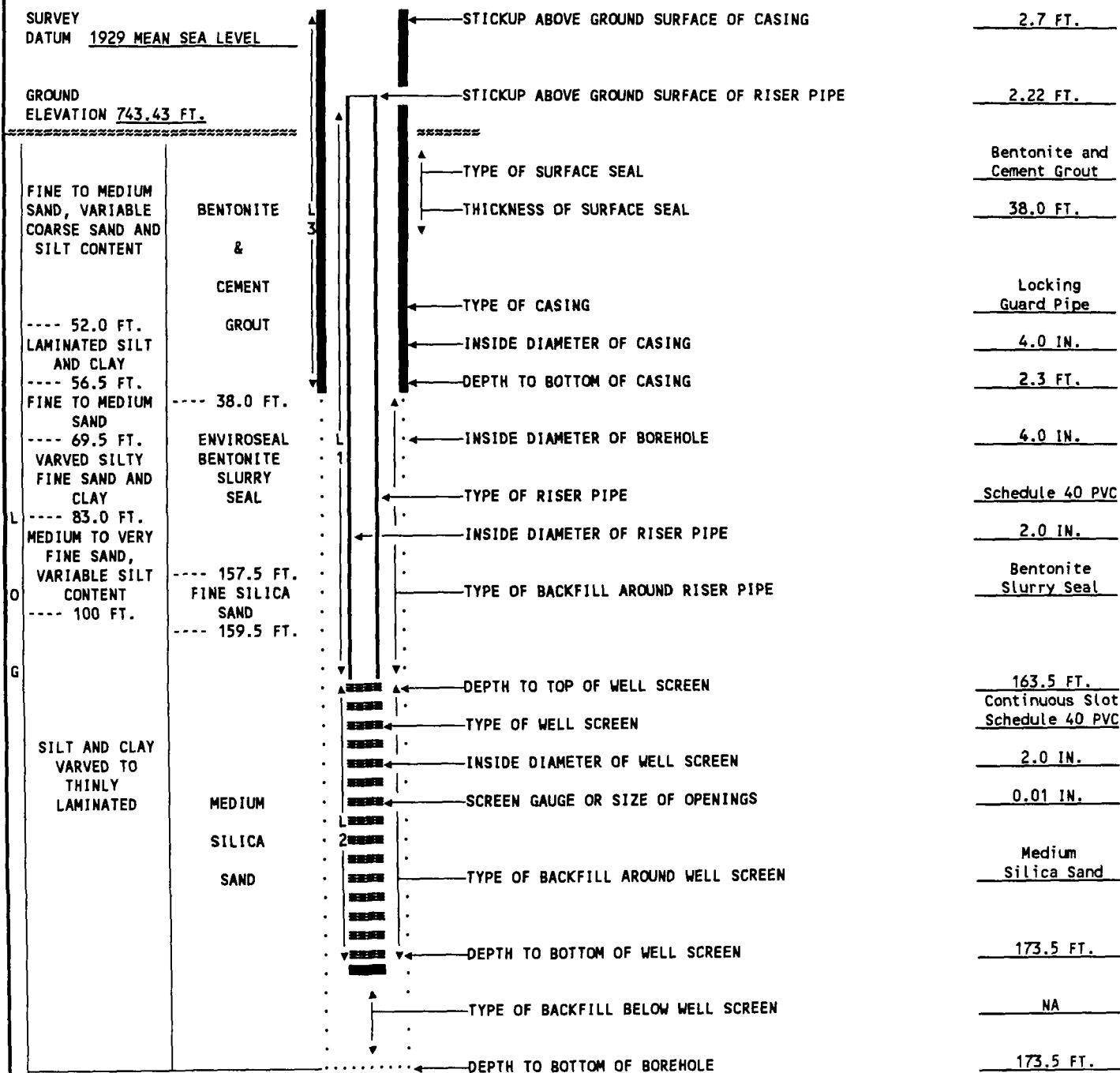
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 108 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(s): A.J. CARON

BORING NO. B 108 B
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JUN 5 1991
ESE Rep. J. BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{165.72 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{175.72 \text{ FT.}}{\text{PAY LENGTH}}$$

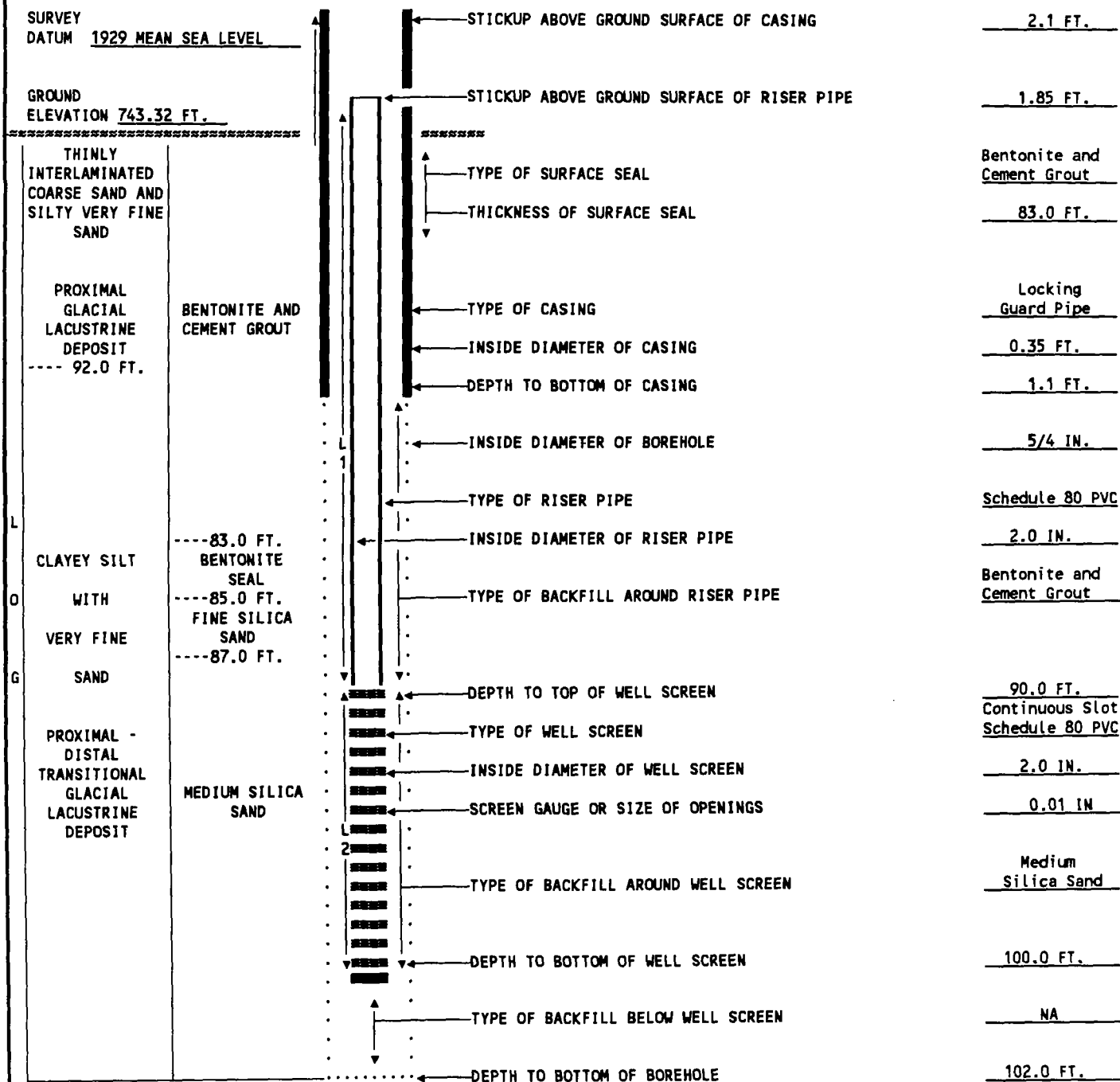
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B1081
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(s): A. CARRON, J. GRASSER

BORING NO. B1081
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF DISTAL
INSTALL. DATE: MAY 21, 1992
ESE Rep. P. BRUNO



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{91.85 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{101.85 \text{ FT.}}{\text{PAY LENGTH}}$$

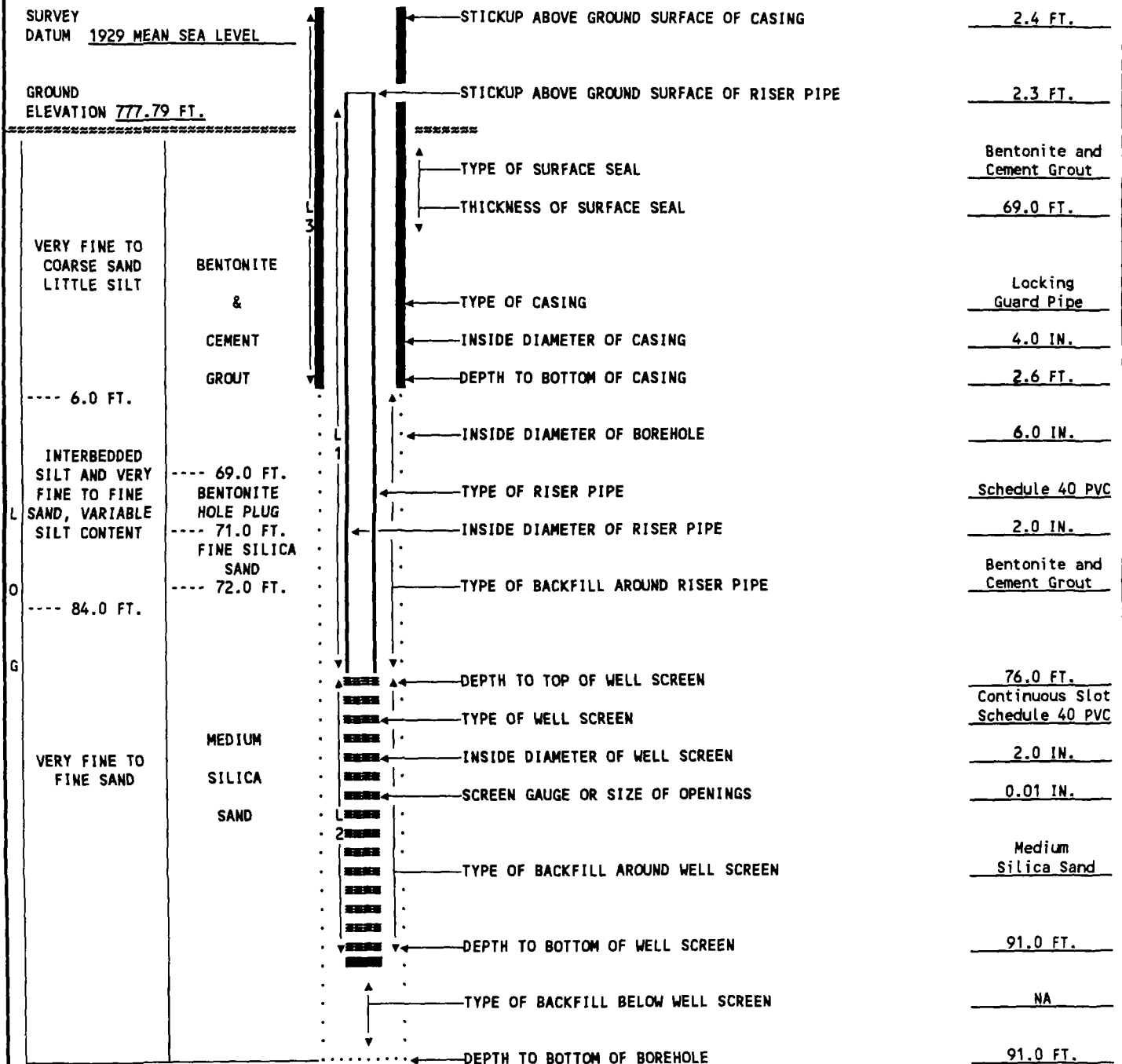
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 109 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. MANN, R. UTLEY

BORING NO. B 109 A
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: JUNE 4 1991
ESE Rep. J. ASHLEY



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{78.4 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{14.9 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{93.3 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 109 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): B. MANN, M. LECLAIR C&S

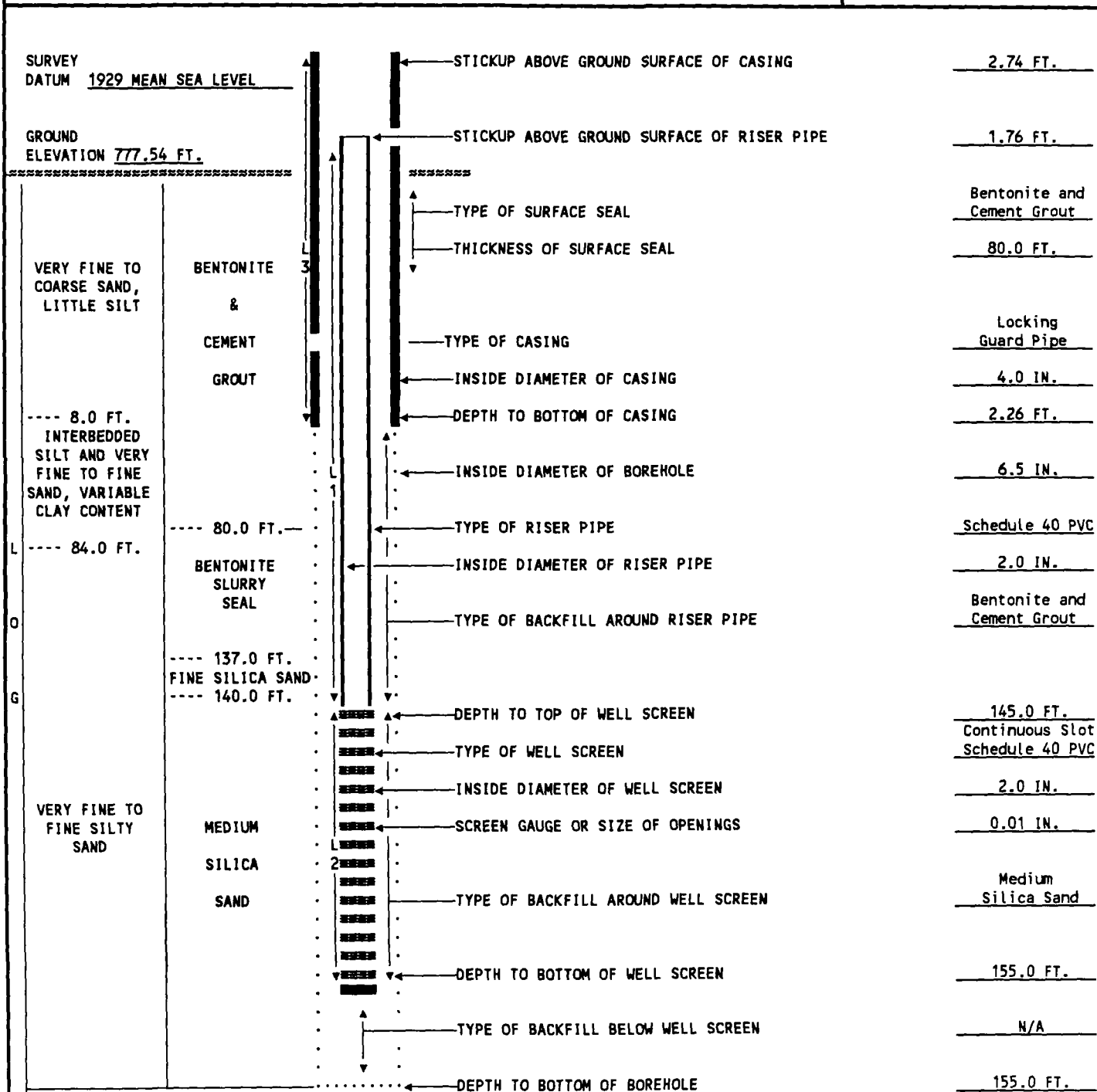
BORING NO. B 109 B

LOCATION: SEE PLAN

WELL TYPE: INTERMEDIATE

INSTALL. DATE: JUNE 11 1991

ESE Rep. H.K. WILSON



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{147.7 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{157.7 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 109 C
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): B. MANN

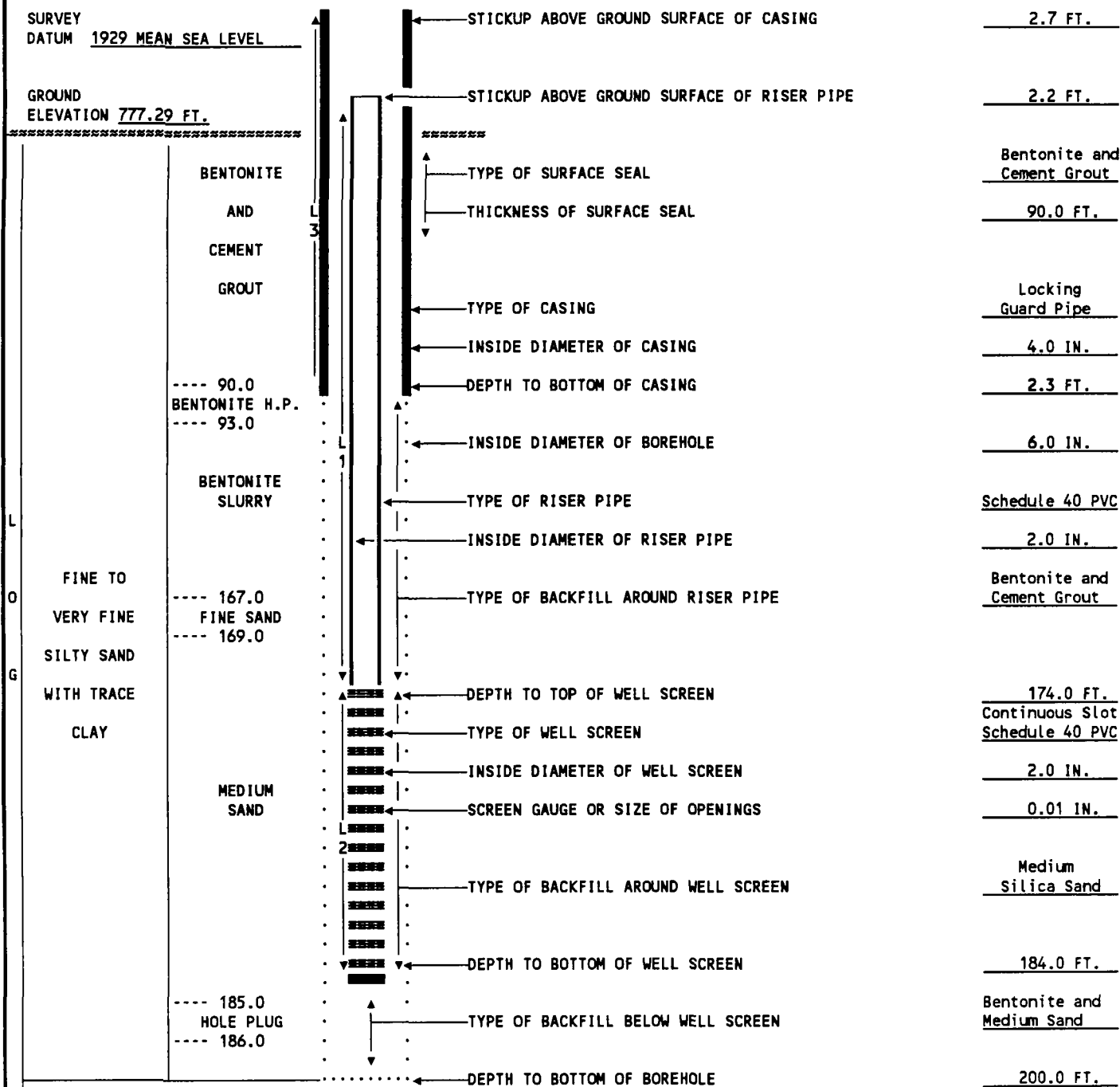
BORING NO. B 109 C

LOCATION: SEE PLAN

WELL TYPE: TOR

INSTALL. DATE: JUNE 3, 1991

ESE Rep. J. ASHLEY



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{176.2 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{186.2 \text{ FT.}}{\text{PAY LENGTH}}$$

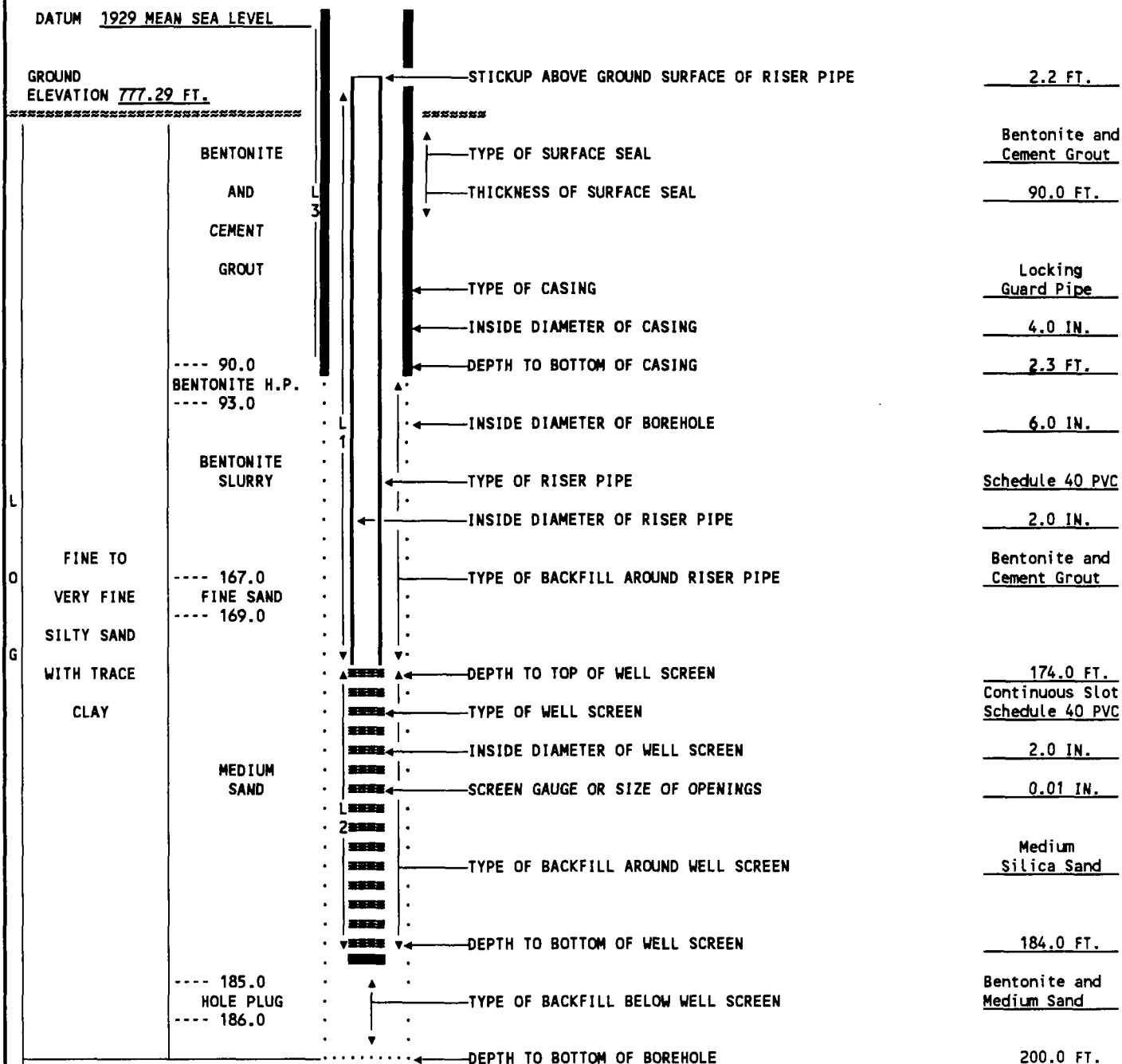
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 109 C-R
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. MANN, S. BEAL, M. LECLAIR C&S

BORING NO. B 109 C
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JULY 11, 1991
ESE Rep. W. KHAN



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{176.2 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{186.2 \text{ FT.}}{\text{PAY LENGTH}}$$

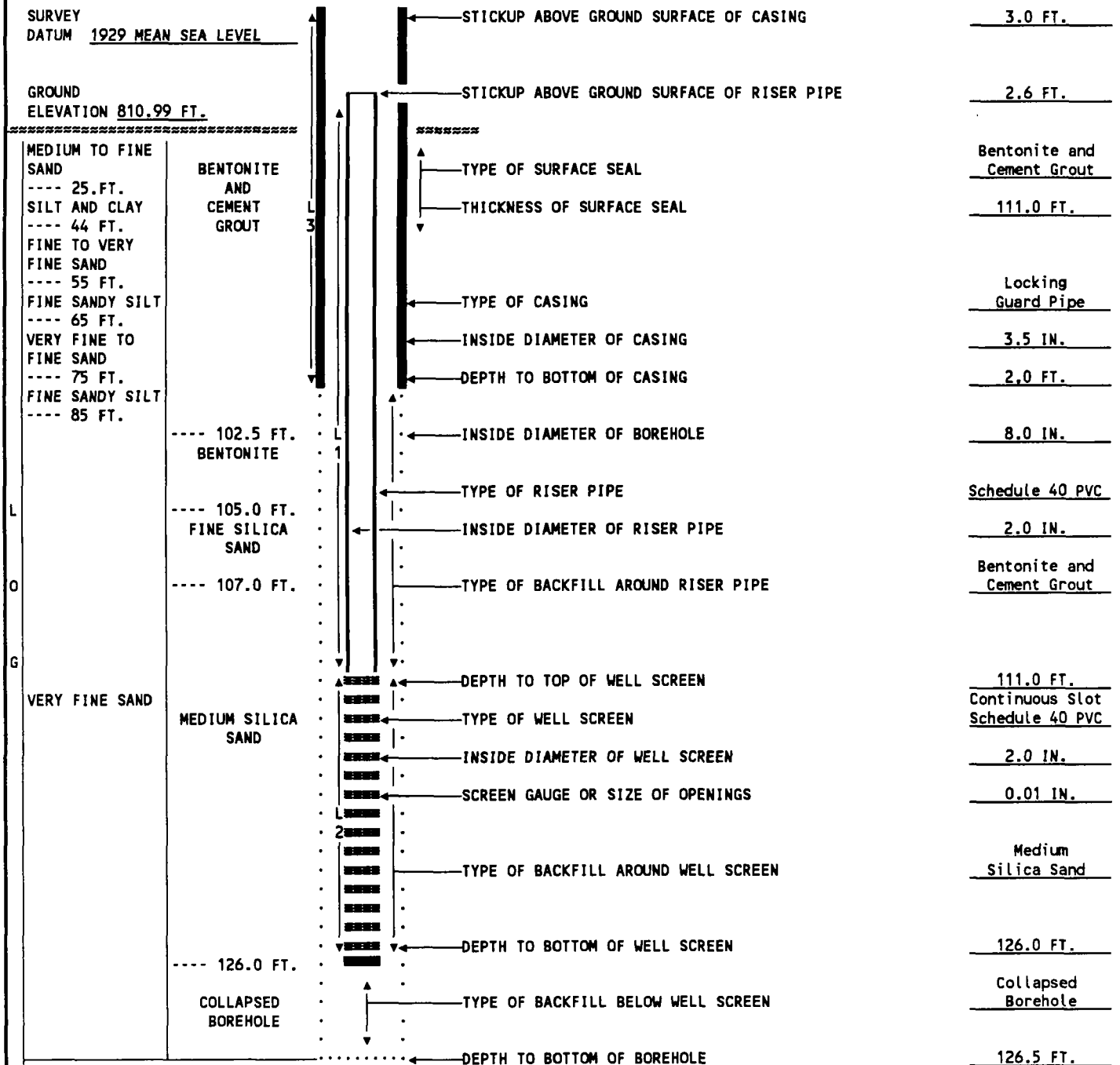
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 110 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): M. BRUSO, S. LAMARCHE EDI

BORING NO. B 110 A
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: JUN 28 1991
ESE Rep. W. KHAN



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{113.6 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{128.6 \text{ FT.}}{\text{PAY LENGTH}}$$

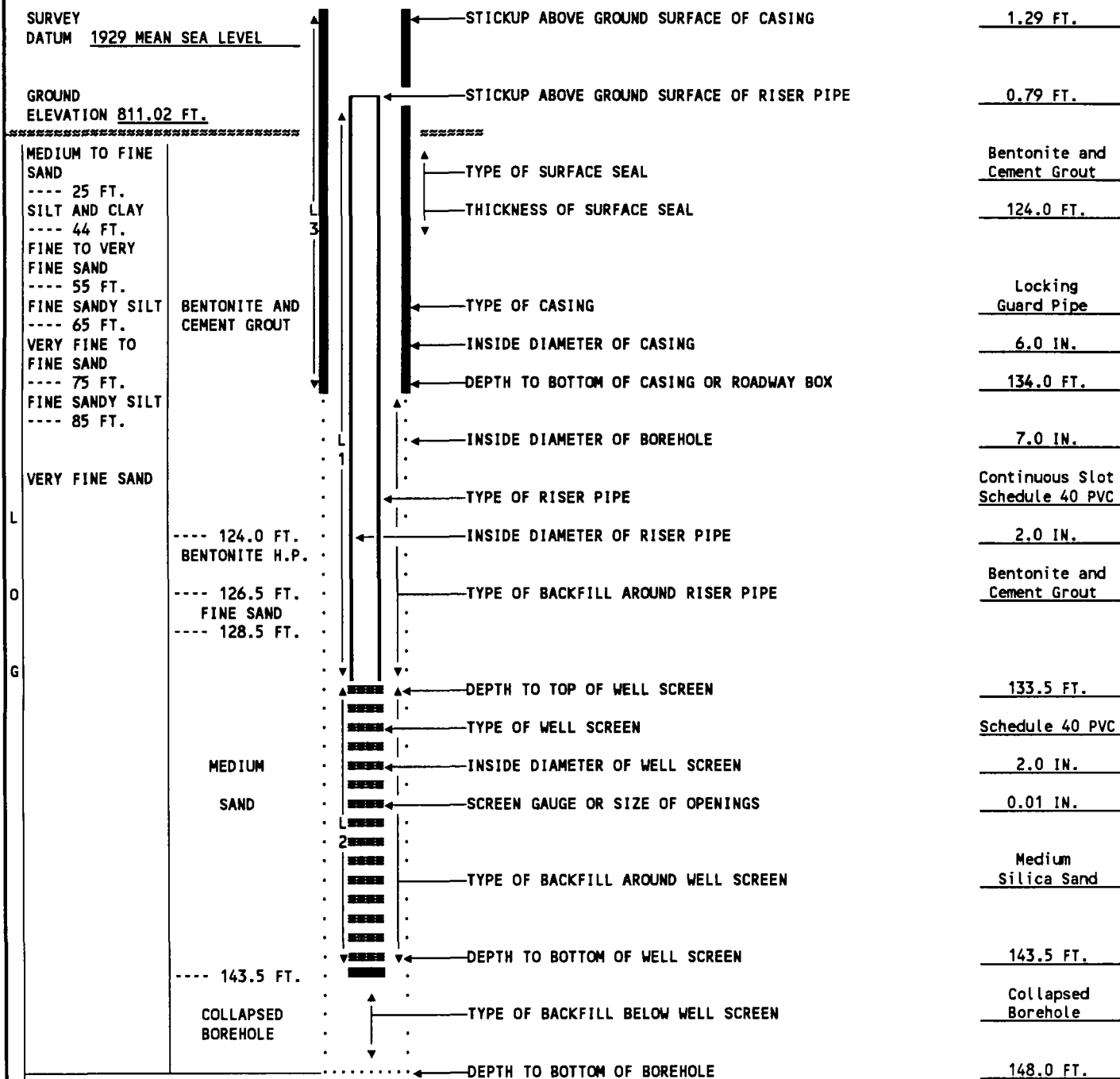
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 110 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. MANN, M. LECLAIRE, M. BANNISTER C&S

BORING NO. B 110 B
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JULY 17 1991
ESE Rep. H.K. WILSON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{133.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{143.5 \text{ FT.}}{\text{PAY LENGTH}}$$

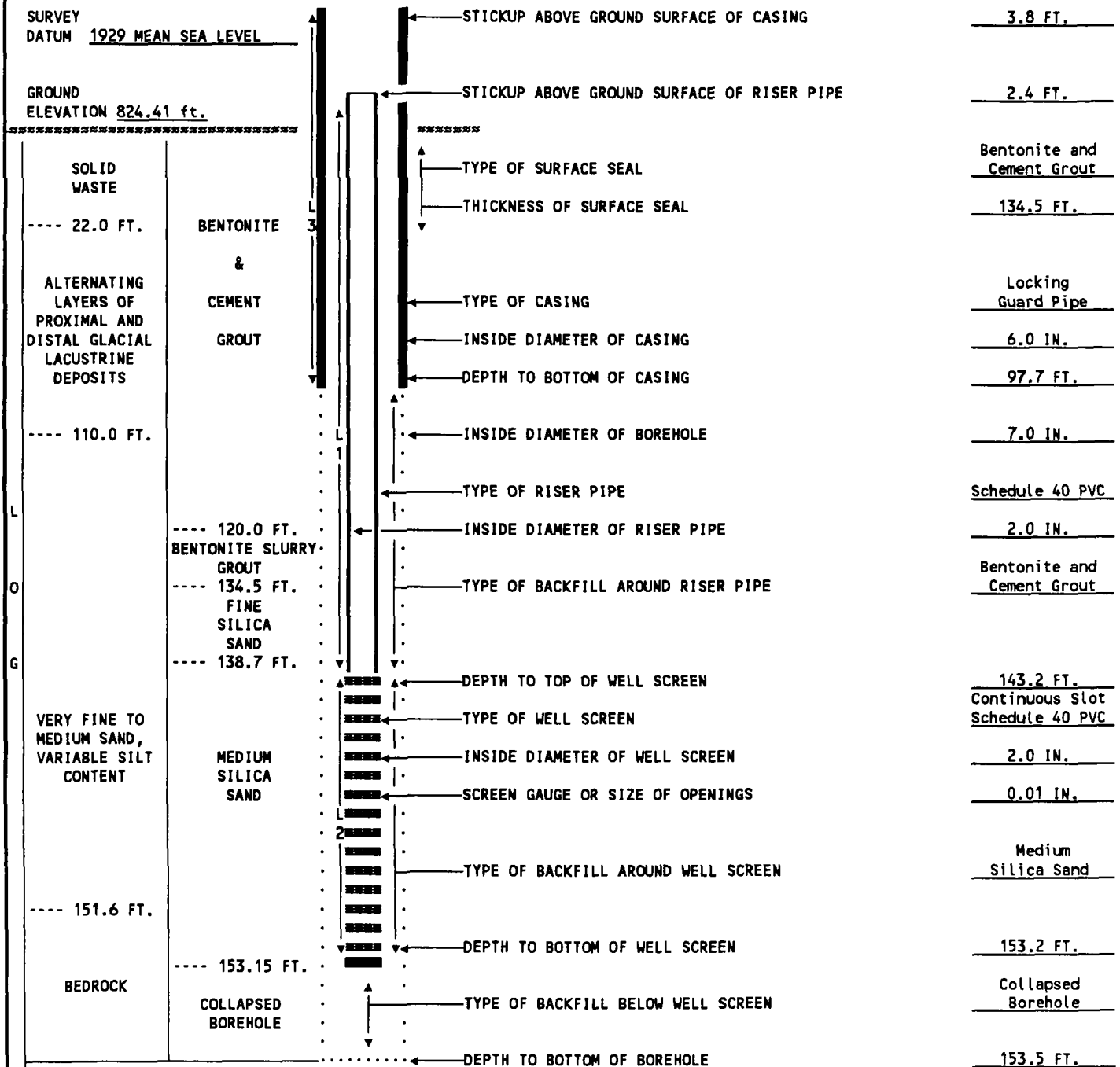
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 111-R
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. MANN, M. LEGERE C&S

BORING NO. B 111-R
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: MAY 14 1991
ESE Rep. H.K. DUBOIS



(FIGURE NOT TO SCALE)

$$\left[\frac{101.5 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{143.2 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{153.2 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 112 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): A.J. CARON, J. FRANCIS EDI

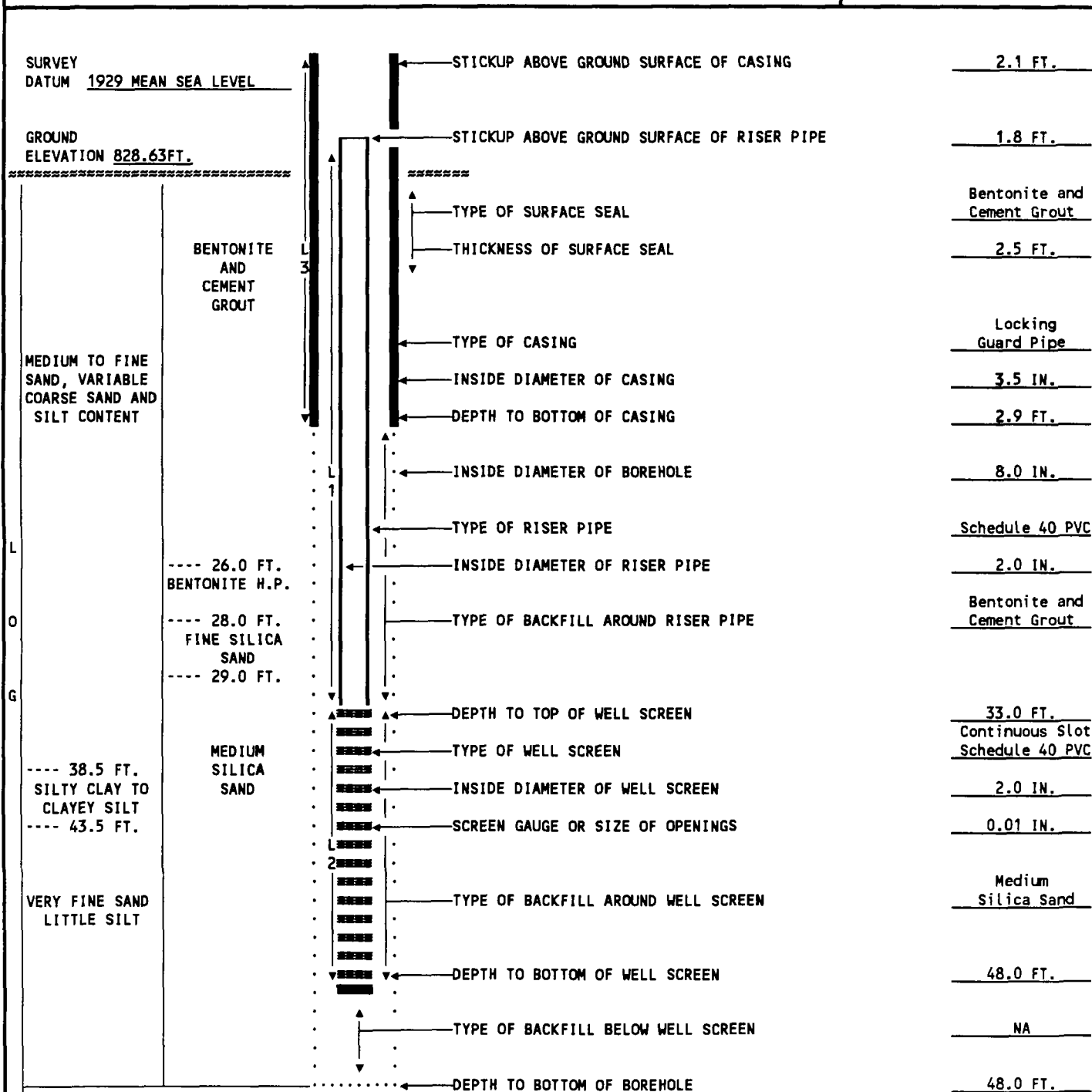
BORING NO. B 112 A

LOCATION: SEE PLAN

WELL TYPE: BRIDGING

INSTALL. DATE: MAY 7 1991

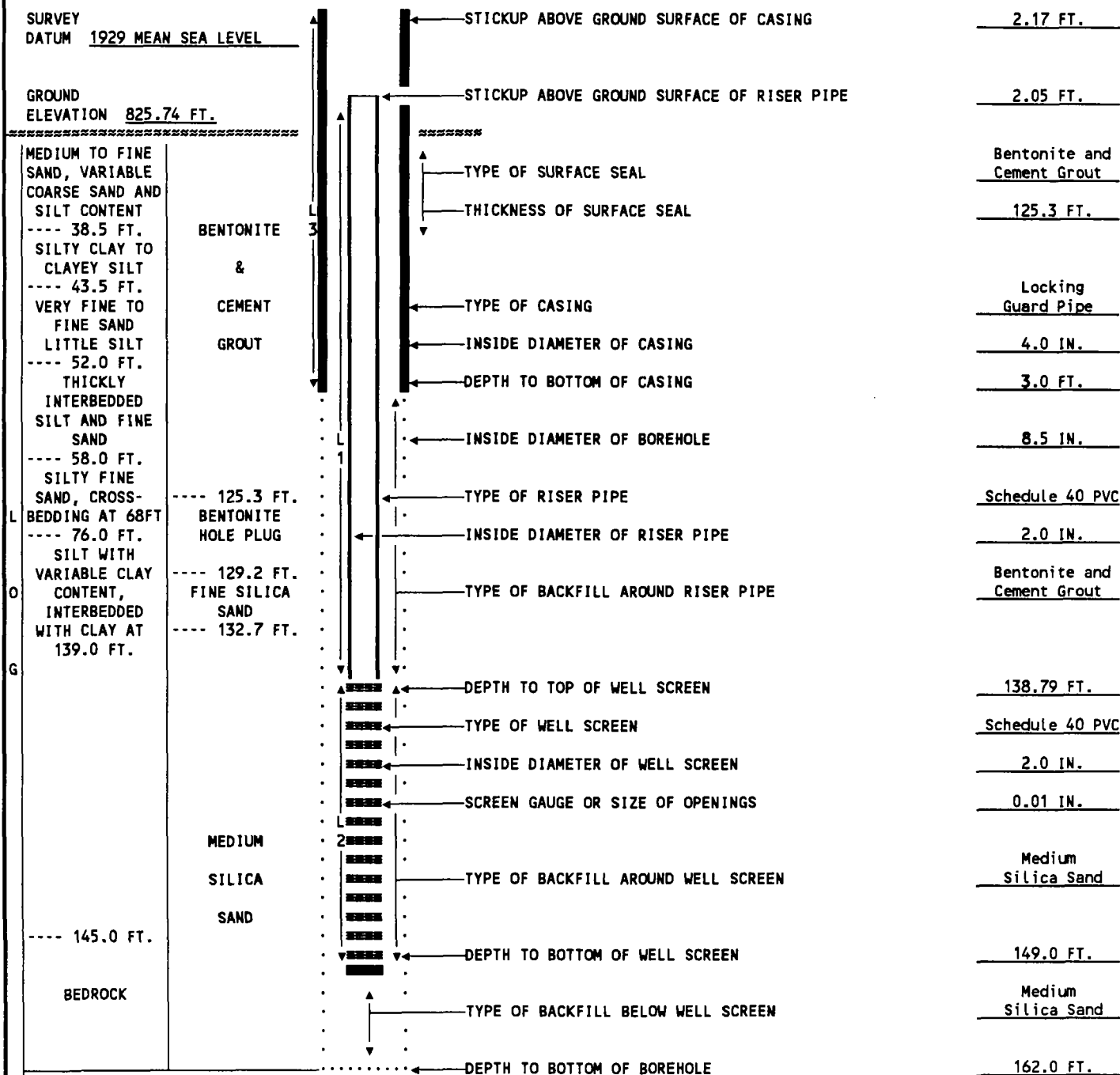
ESE Rep. W. KHAN



5.0 FT.
LENGTH OF CASING (L3)

34.8 FT. + 15.0 FT. = 49.8 FT.
LENGTH OF RISER PIPE (L1) LENGTH OF SCREEN (L2) PAY LENGTH

BORING NO. B 112 B
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JUNE 6 1991
ESE Rep. R. GALYEN



(FIGURE NOT TO SCALE)

$$\frac{5.17 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} + \frac{140.84 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.21 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} = \frac{150.05 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 113 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): M. BRUSO, S. LAMARCHE EDI

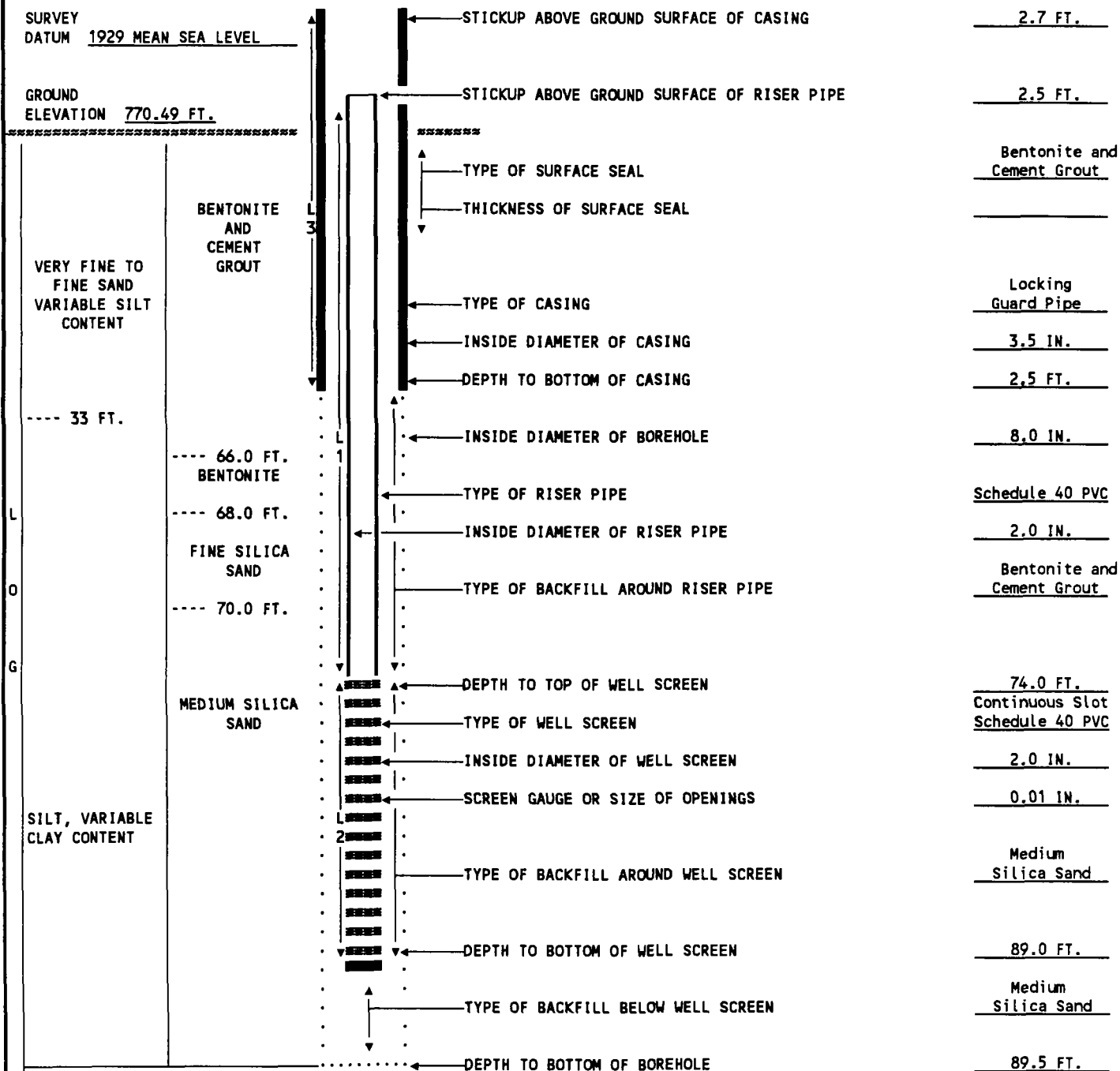
BORING NO. B 113 A

LOCATION: SEE PLAN

WELL TYPE: BRIDGING

INSTALL. DATE: JUNE 25 1991

ESE Rep. W. KHAN



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{76.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{91.5 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 113 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(s): M. BRUSO, S. LAMARCHE EDI

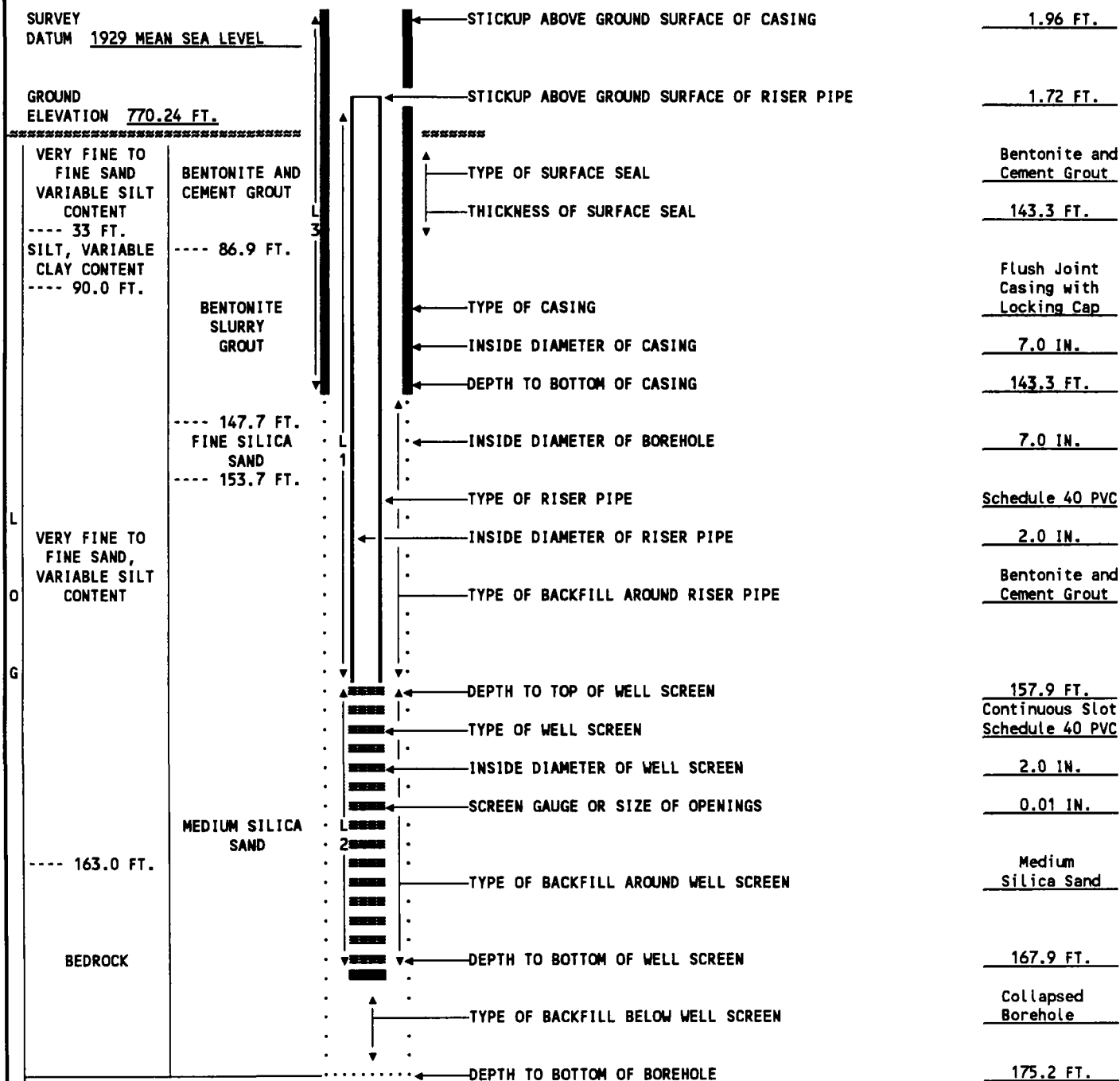
BORING NO. B 113 B

LOCATION: SEE PLAN

WELL TYPE: TOR

INSTALL. DATE: JULY 29 1991

ESE Rep. W. KHAN



$$\left[\frac{145.26 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{159.62 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{91.5 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 114 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): M. BRUSO, S. LAMARCHE EDI

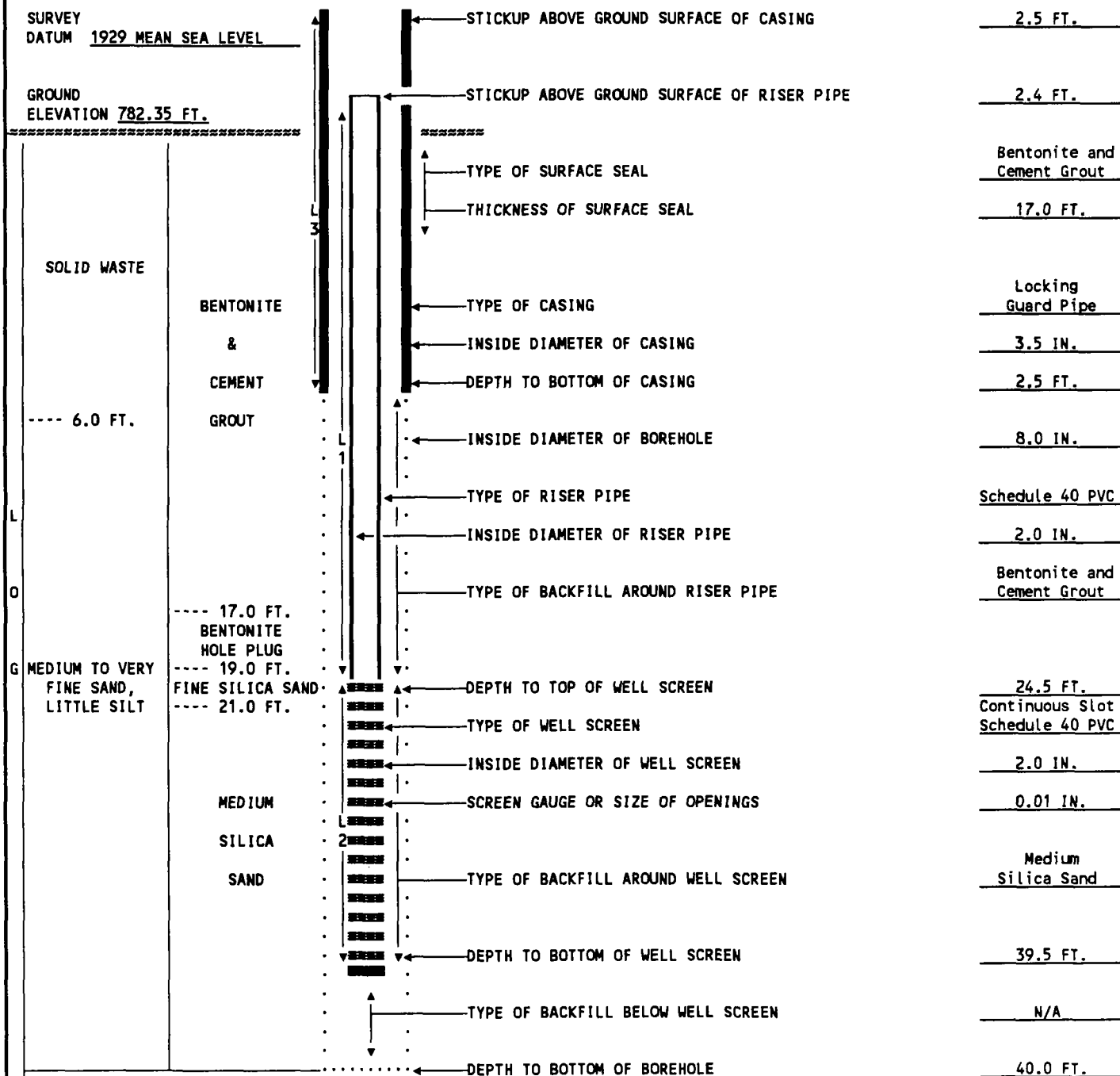
BORING NO. B 114 A

LOCATION: SEE PLAN

WELL TYPE: BRIDGING

INSTALL. DATE: JUNE 21 1991

ESE Rep. W. KHAN



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{27.4 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{42.4 \text{ FT.}}{\text{PAY LENGTH}}$$

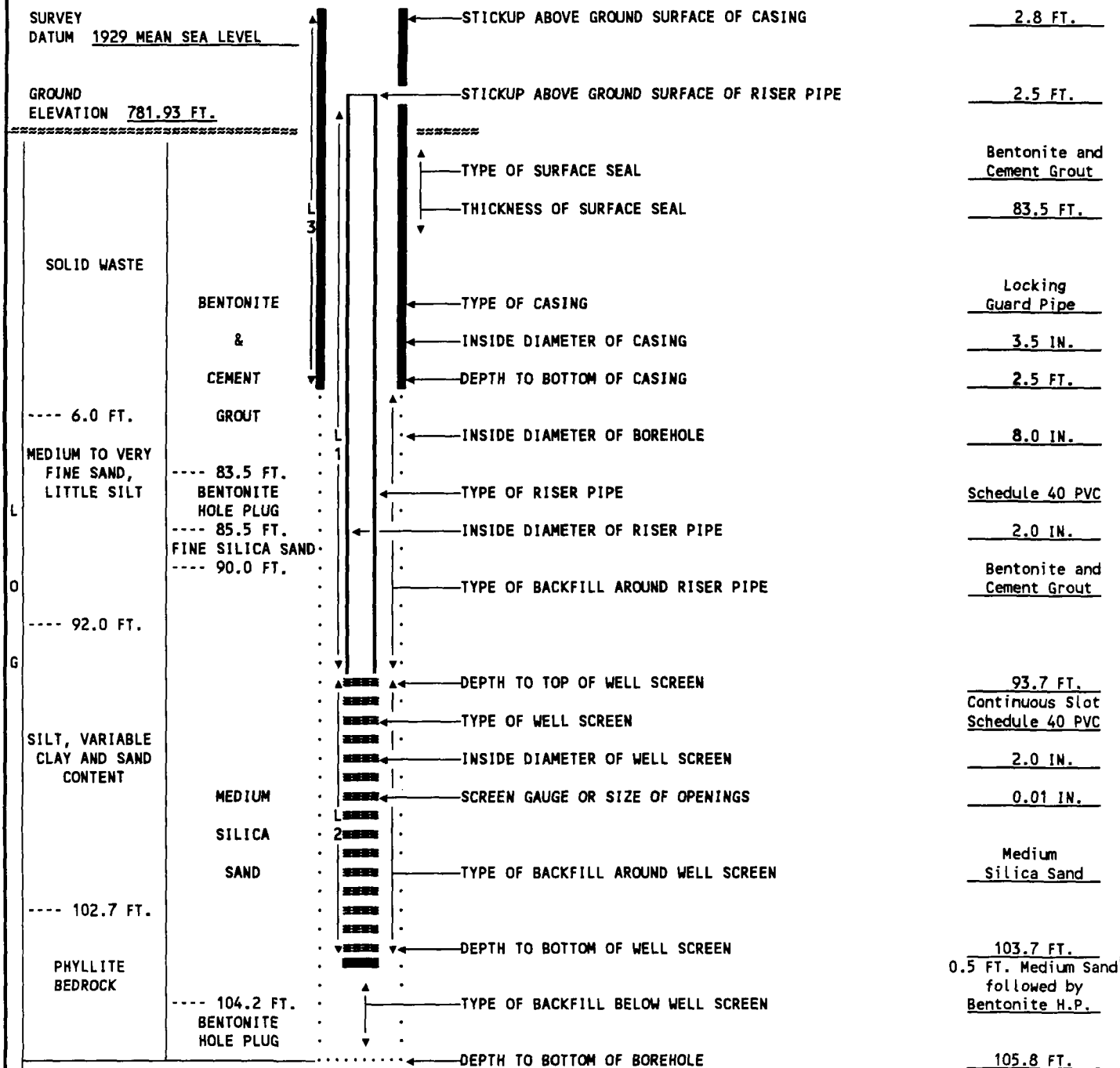
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 114 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): M. BRUSO, S. LAMARCHE EDI

BORING NO. B 114 B
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JUNE 20 1991
ESE Rep. W. KHAN



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{96.2 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{106.2 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 115 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): B. HAYES, J. GRASSER EDI

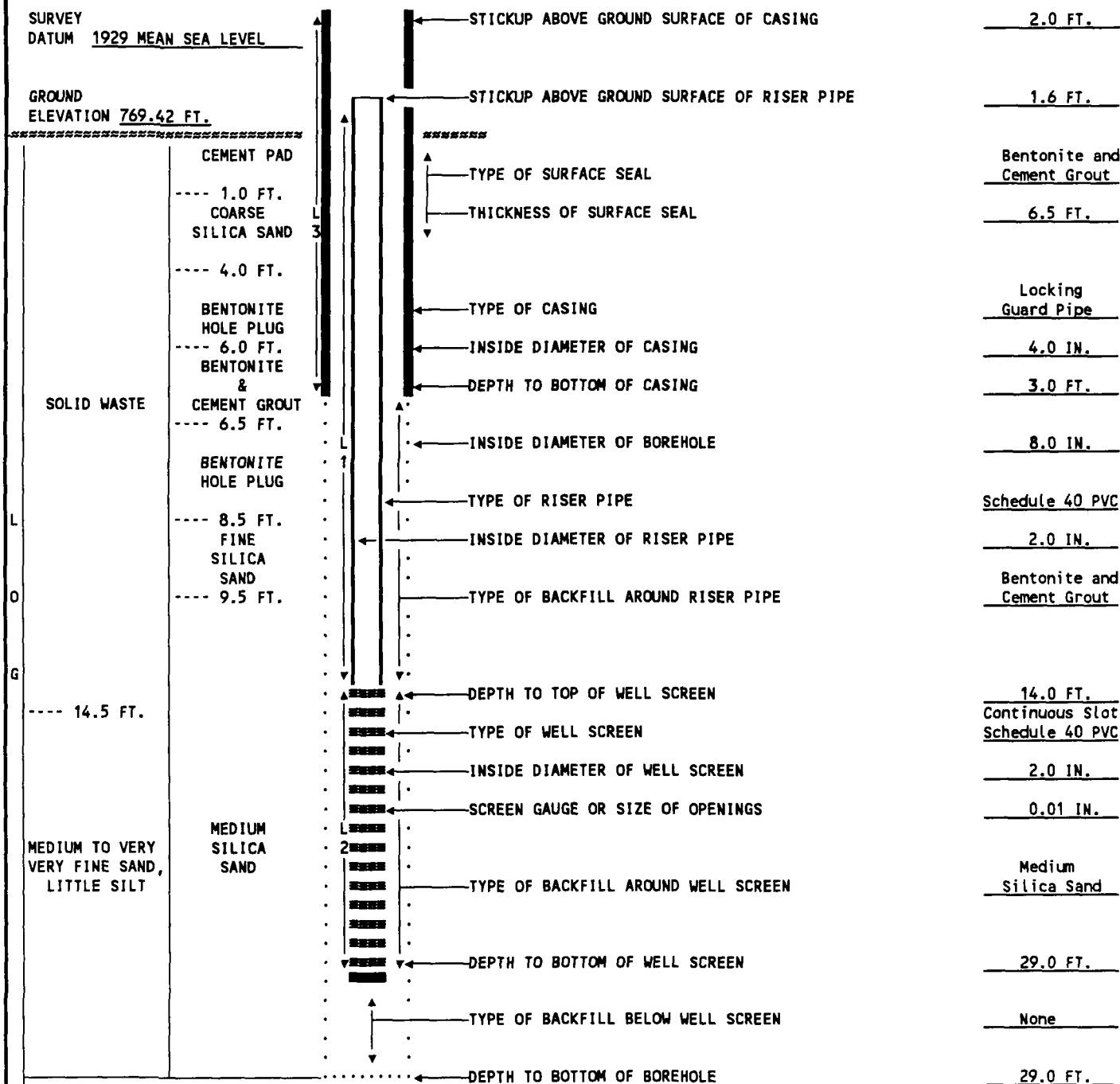
BORING NO. B 115 A

LOCATION: SEE PLAN

WELL TYPE: BRIDGING

INSTALL. DATE: JUNE 26 1991

ESE Rep. D. HULL



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{15.6 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{30.6 \text{ FT.}}{\text{PAY LENGTH}}$$

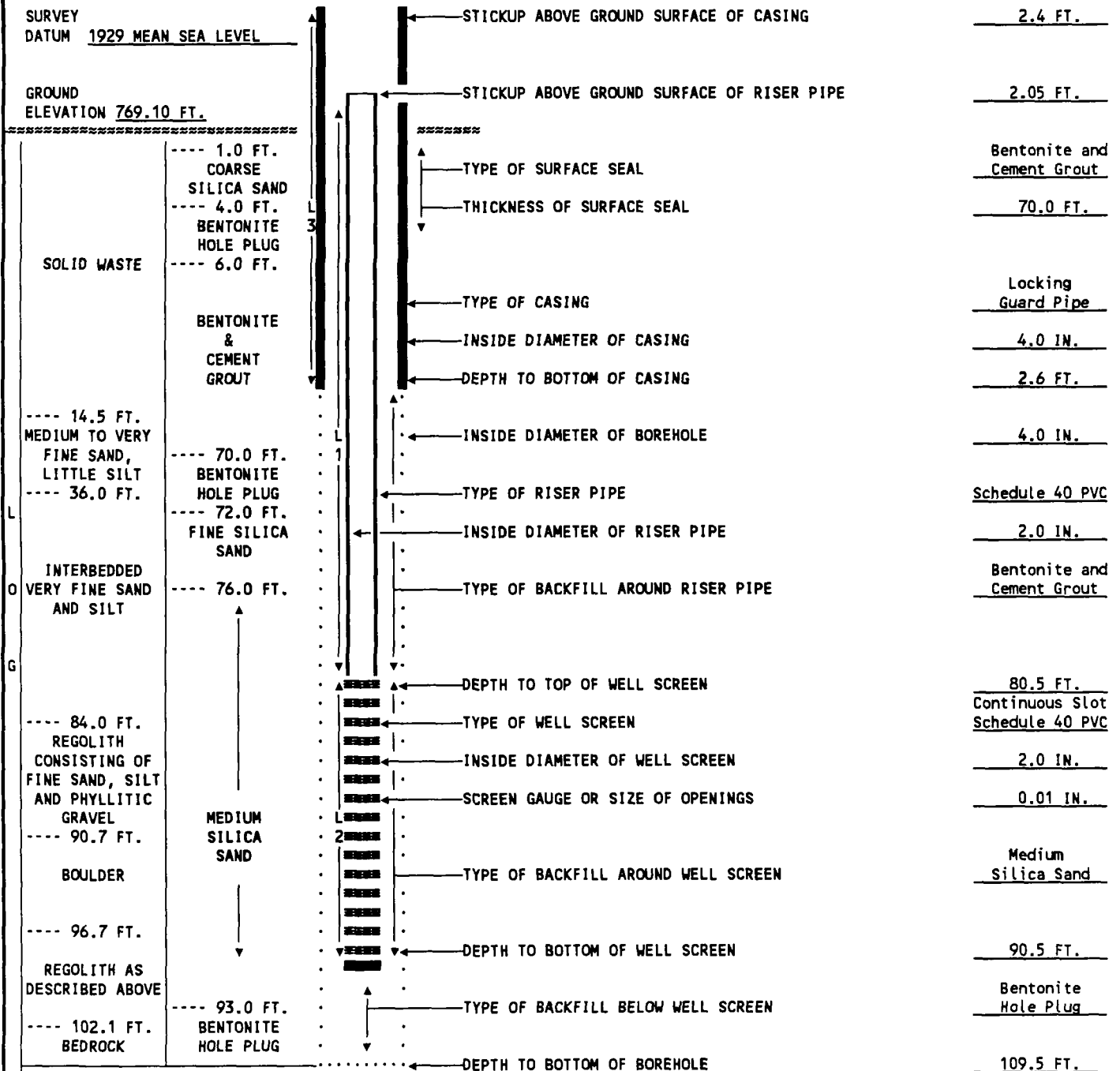
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 115 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. HAYES, J. GRASSER EDI

BORING NO. B 115 B
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JUNE 25 1991
ESE Rep. D. HULL



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{82.55 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{92.55 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 117 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): J. FRANCIS, M. PHILBIN EDI

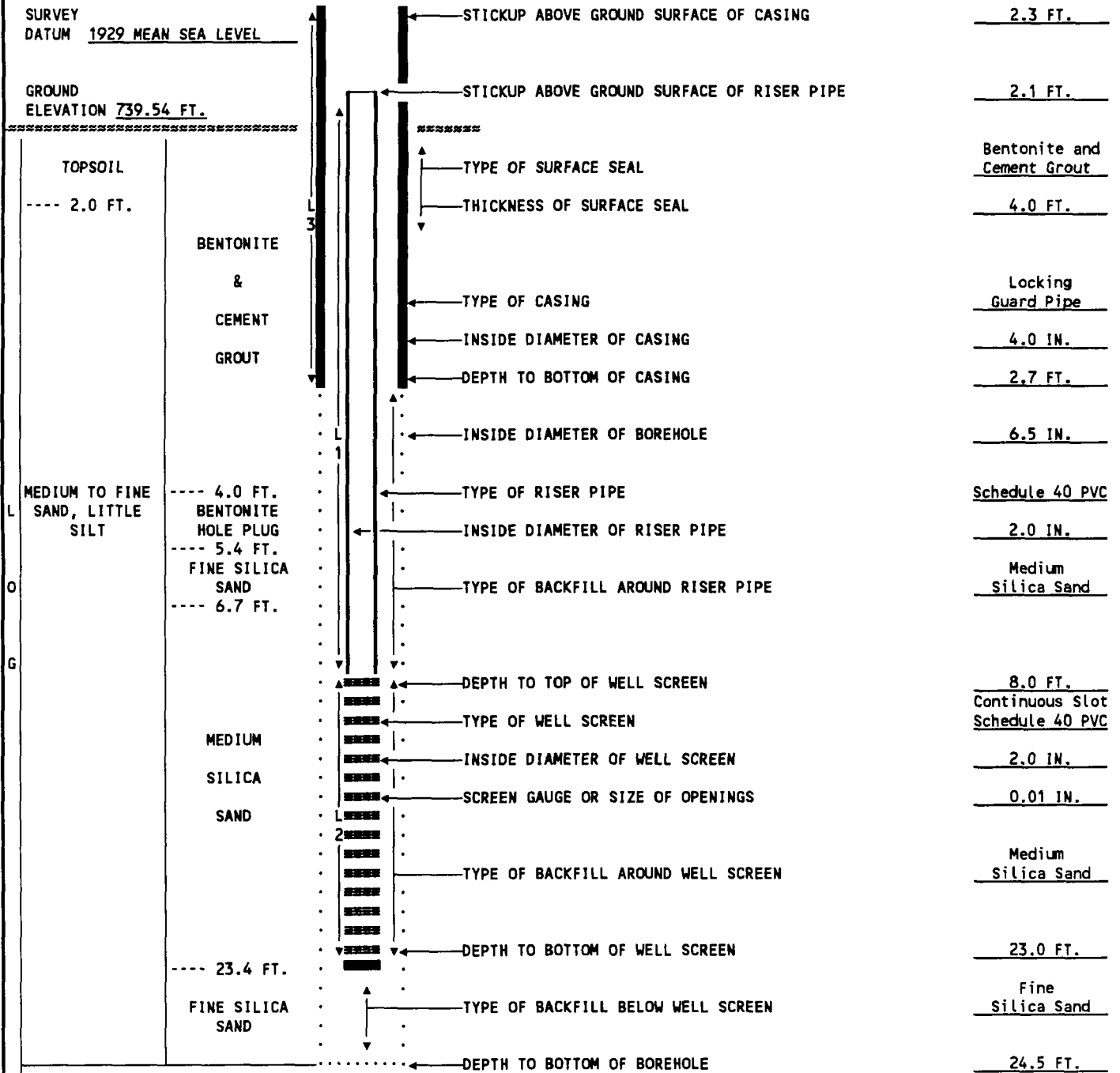
BORING NO. B 117 A

LOCATION: SEE PLAN

WELL TYPE: BRIDGING

INSTALL. DATE: JUNE 5 1991

ESE Rep. H.K. WILSON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{10.1 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{25.1 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 117 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): B. HAYES, J. GRASSER EDI

BORING NO. B 117 B

LOCATION: SEE PLAN

WELL TYPE: TOR

INSTALL. DATE: JUNE 12 1991

ESE Rep. D. HULL

SURVEY
DATUM 1929 MEAN SEA LEVEL

GROUND
ELEVATION 740.62 FT.

MEDIUM TO FINE
SAND, LITTLE
SILT

BENTONITE
&
CEMENT
GROUT

---- 39.0 FT.
THINLY
INTERBEDDED
VERY FINE SAND
AND SILT,
VARIABLE CLAY
CONTENT
---- 66.4 FT.

---- 72.2 FT.
BENTONITE
HOLE PLUG
---- 75.9 FT.
FINE SILICA
SAND

VERY FINE SAND
LITTLE SILT

---- 78.5 FT.

---- 90.0 FT.

REGOLITH
CONSISTING OF
VERY FINE TO
COARSE SAND,
SILT, AND
PHYLLITIC
GRAVEL

MEDIUM
SILICA
SAND

94.5
BEDROCK
CALCAREOUS
PHYLLITE

94.3 FT.
COLLAPSED
BOREHOLE

STICKUP ABOVE GROUND SURFACE OF CASING

2.7 FT.

STICKUP ABOVE GROUND SURFACE OF RISER PIPE

2.4 FT.

TYPE OF SURFACE SEAL

Bentonite and
Cement Grout

THICKNESS OF SURFACE SEAL

72.2 FT.

TYPE OF CASING

Locking
Guard Pipe

INSIDE DIAMETER OF CASING

4.0 IN.

DEPTH TO BOTTOM OF CASING

2.3 FT.

INSIDE DIAMETER OF BOREHOLE

4.0 IN.

TYPE OF RISER PIPE

Schedule 40 PVC

INSIDE DIAMETER OF RISER PIPE

2.0 IN.

TYPE OF BACKFILL AROUND RISER PIPE

Bentonite and
Cement Grout

DEPTH TO TOP OF WELL SCREEN

84.3 FT.
Continuous Slot
Schedule 40 PVC

TYPE OF WELL SCREEN

2.0 IN.

INSIDE DIAMETER OF WELL SCREEN

0.01 IN.

SCREEN GAUGE OR SIZE OF OPENINGS

Medium
Silica Sand

TYPE OF BACKFILL AROUND WELL SCREEN

Medium
Silica Sand

DEPTH TO BOTTOM OF WELL SCREEN

94.3 FT.

TYPE OF BACKFILL BELOW WELL SCREEN

Collapsed
Borehole

DEPTH TO BOTTOM OF BOREHOLE

95.1 FT.

(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{86.7 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{96.7 \text{ FT.}}{\text{PAY LENGTH}}$$

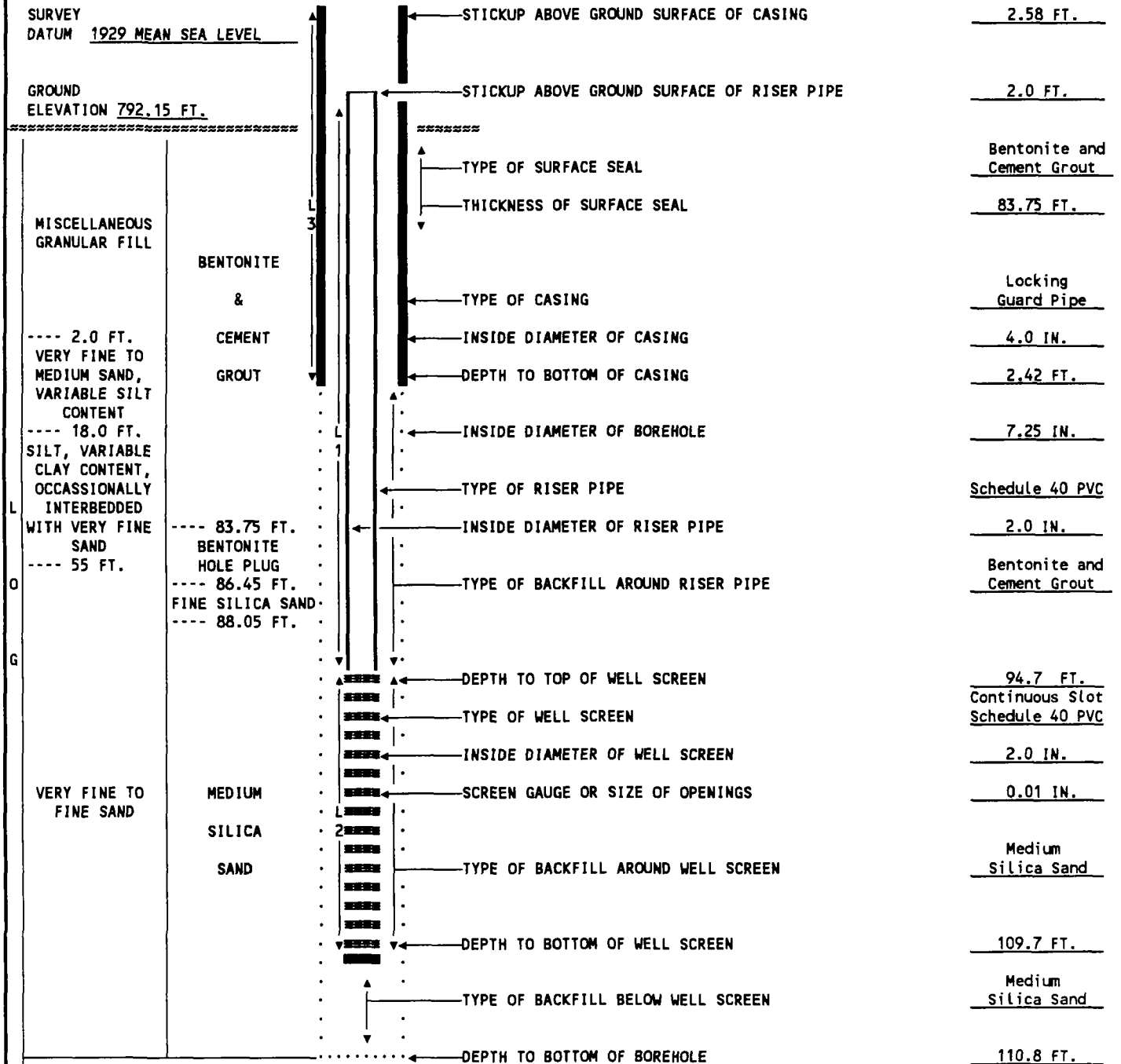
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 118 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): R. UTLEY, D. DREW C&S

BORING NO. B 118 A
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: JUNE 11 1991
ESE Rep. R. GALYEN



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{96.49 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.21 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{111.70 \text{ FT.}}{\text{PAY LENGTH}}$$

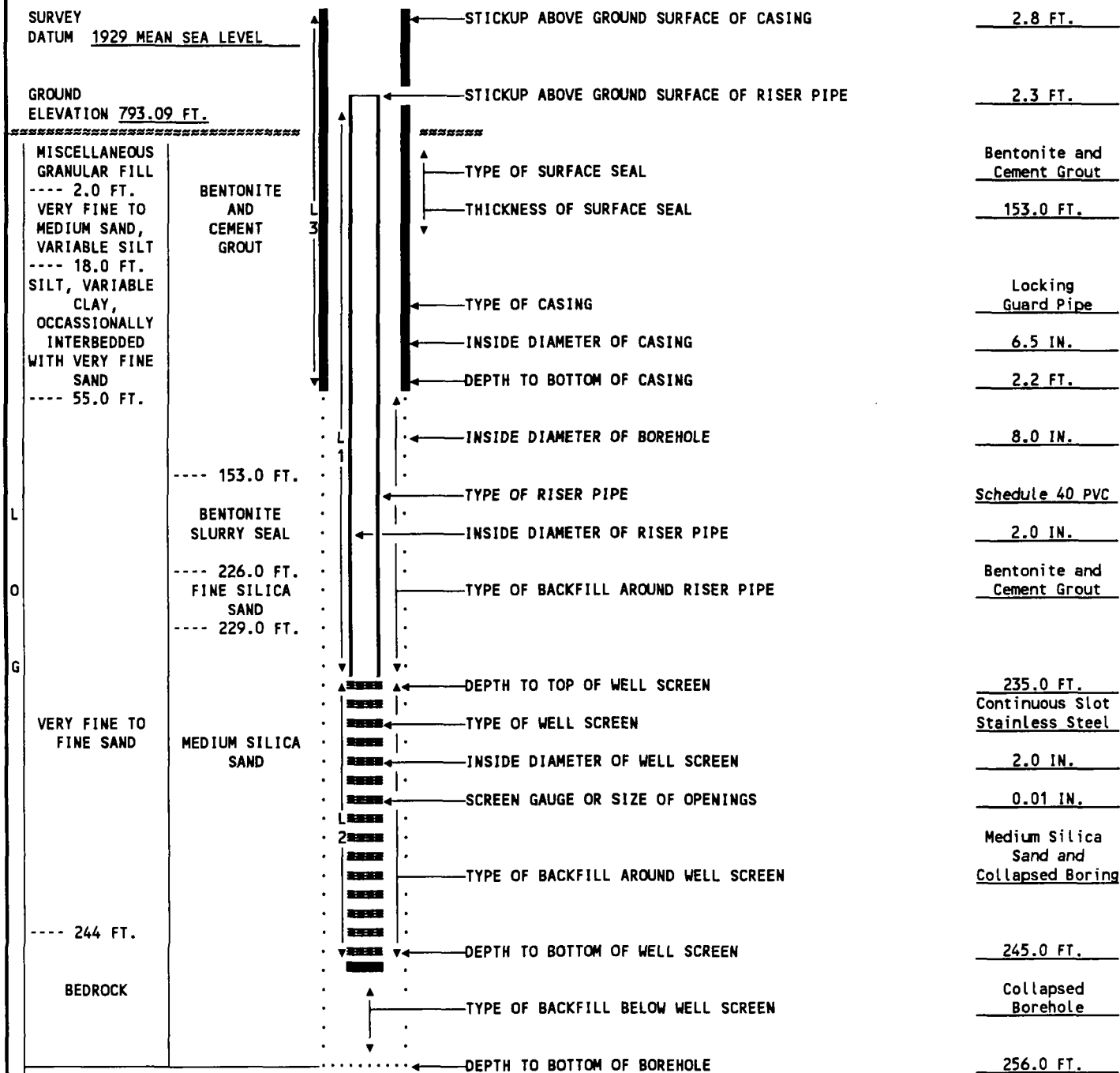
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 118 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. MANN, S. BEAL, M. LECLAIR C&S

BORING NO. B 118 B
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JUL. 8 1991
ESE Rep. W. KHAN



(FIGURE NOT TO SCALE)

$$\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} + \frac{237.4 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} = \frac{247.4 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 119 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): R. UTLEY, D. DREW C&S

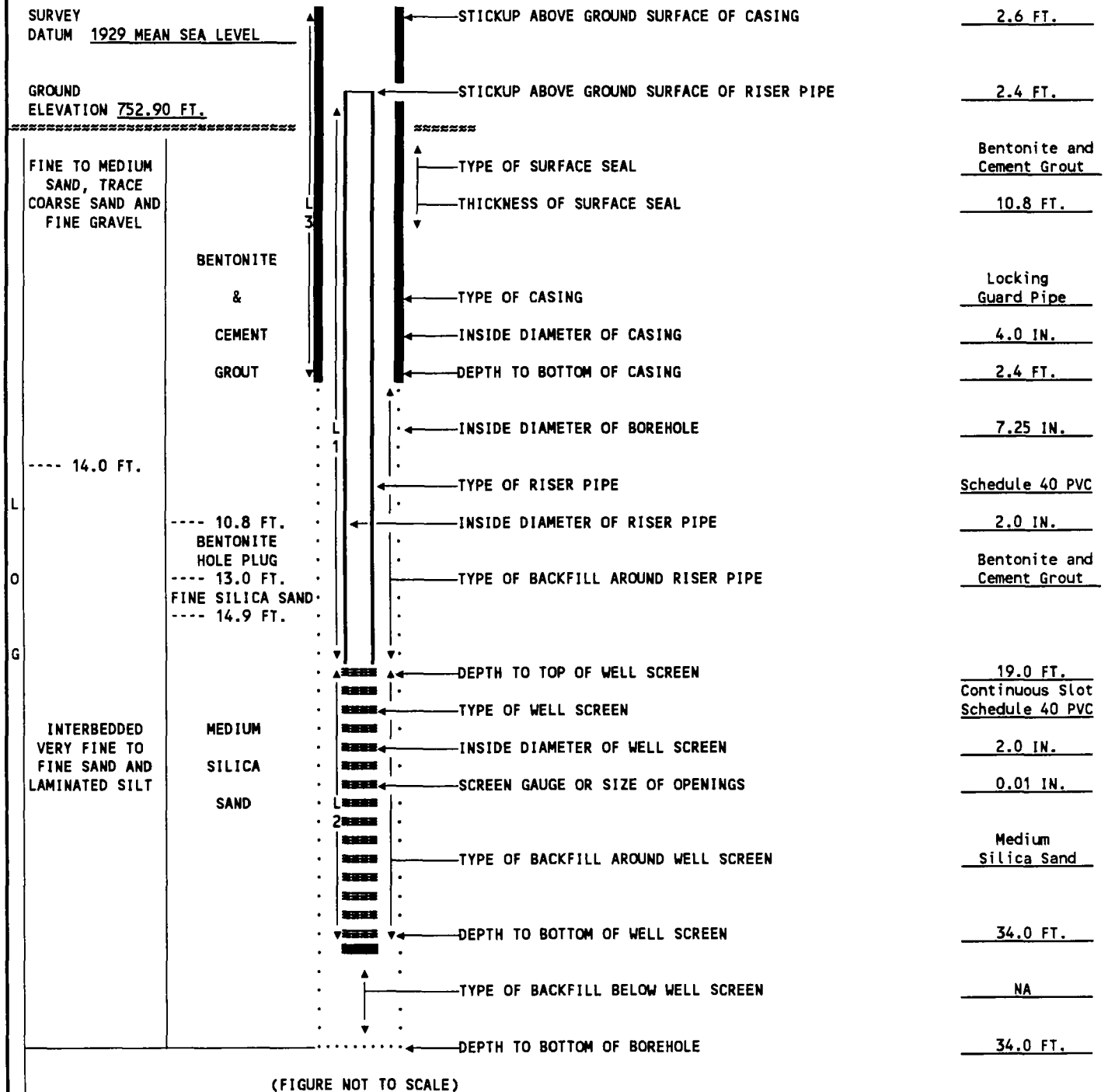
BORING NO. B 119 A

LOCATION: SEE PLAN

WELL TYPE: BRIDGING

INSTALL. DATE: JUNE 21 1991

ESE Rep. R. GALYEN



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{21.4 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{36.4 \text{ FT.}}{\text{PAY LENGTH}}$$

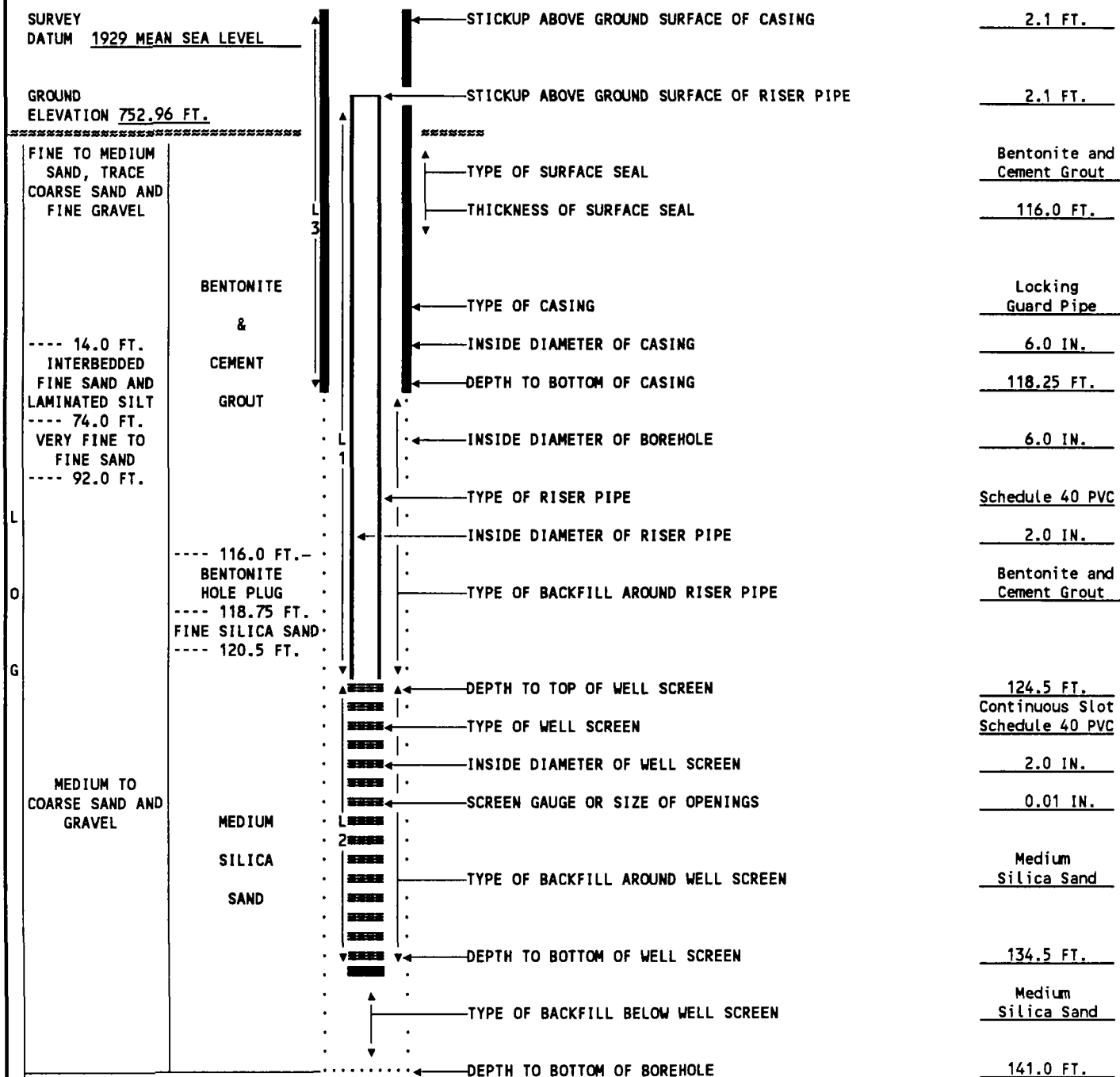
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 119 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): R. UTLEY, D. DREW C&S

BORING NO. B 119B
LOCATION: SEE PLAN
WELL TYPE: INTERMEDIATE
INSTALL. DATE: JULY 16 1991
ESE Rep. P. BRUNO



$$\left[\frac{120.35 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{126.6 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{136.6 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 119 C
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): R. UTLEY, D. DREW C&S

BORING NO. B 119 C
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JULY 8 1991
ESE Rep. P. BRUNO

SURVEY
DATUM 1929 MEAN SEA LEVEL

GROUND
ELEVATION 773.9 FT.

SEE INSTALLA-
TION REPORT FOR
B119B FOR
DESCRIPTION OF
SOILS FROM
GROUND SURFACE
TO 92.0 FT.

---- 92.0 FT.

MEDIUM TO
COARSE SAND AND
GRAVEL

---- 145.5 FT.
FINE TO MEDIUM
SAND, VARIABLE
SILT CONTENT

BENTONITE
&
CEMENT
GROUT

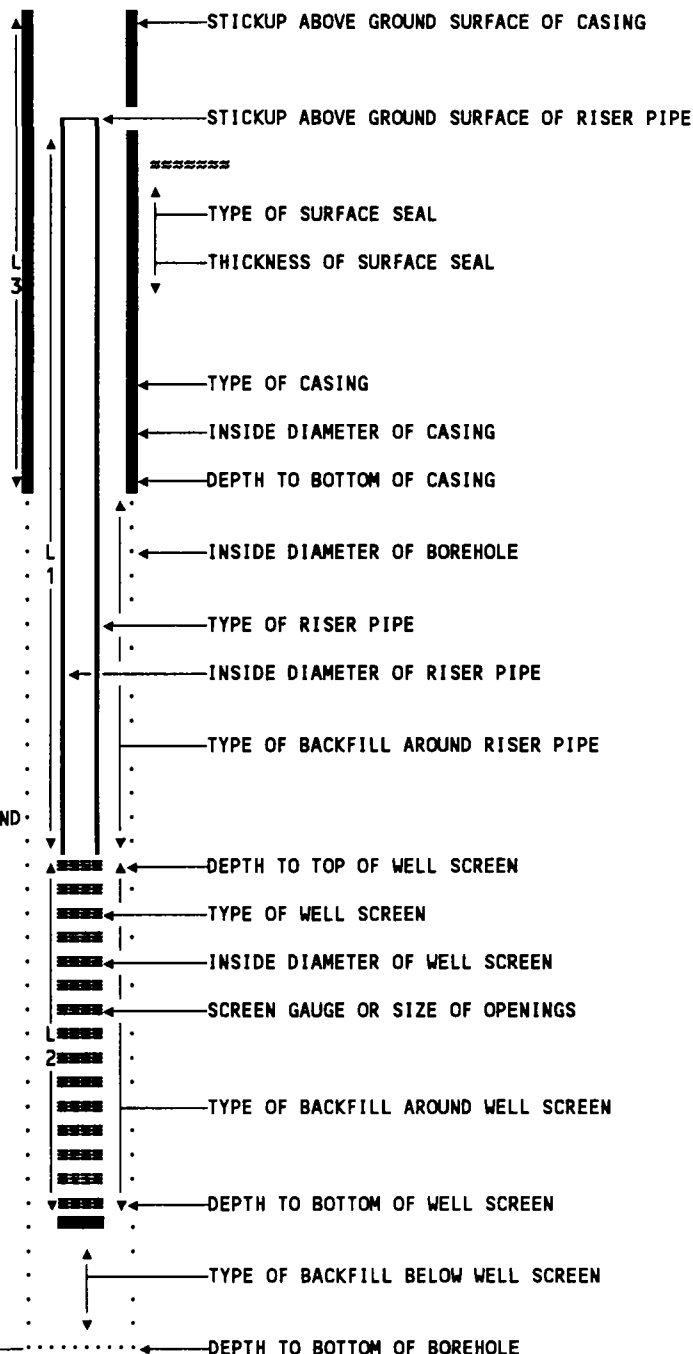
---- 146.0 FT.
BENTONITE
HOLE PLUG
---- 149.0 FT.
FINE SILICA SAND
---- 154.5 FT.

MEDIUM
SILICA
SAND

---- 163.0 FT.

BEDROCK

---- 170.0 FT.
BENTONITE
HOLE PLUG



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{156.7 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{166.7 \text{ FT.}}{\text{PAY LENGTH}}$$

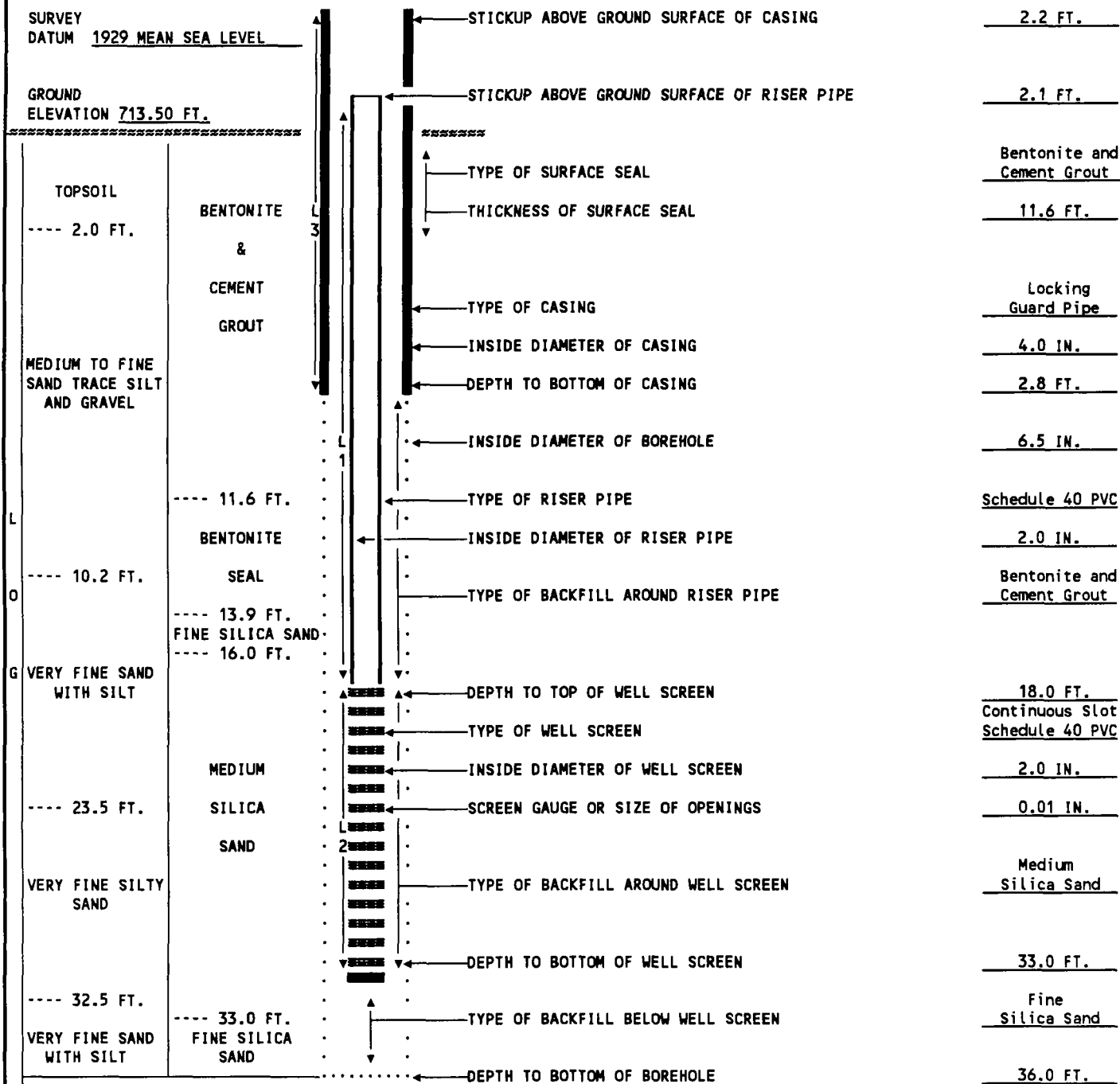
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 120 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): J. FRANCIS, M. PHILBIN EDI

BORING NO. B 120 A
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: JUNE 6 1991
ESE Rep. H.K. WILSON



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{20.1 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{35.1 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NH 03031	GROUNDWATER MONITORING WELL REPORT	WELL NO. <u>G 120 B</u> FILE NO. <u>4905024</u>
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PROJECT: <u>PARKER LANDFILL PROJECT</u> LOCATION: <u>LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING AND SONS, INC.</u> DRILLER(S): <u>B. MANN, B. MITCHELL C&S</u>	BORING NO. <u>B 120 B</u> LOCATION: <u>SEE PLAN</u> WELL TYPE: <u>INTERMEDIATE</u> INSTALL. DATE: <u>JUNE 24 1991</u> ESE Rep. <u>B. GIGLIOTTI</u>
--	--

SURVEY
DATUM 1929 MEAN SEA LEVEL

GROUND
ELEVATION 713.60 FT.

(FIGURE NOT TO SCALE)

$$\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}}$$

$$\frac{57.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} = \frac{67.5 \text{ FT.}}{\text{PAY LENGTH}}$$

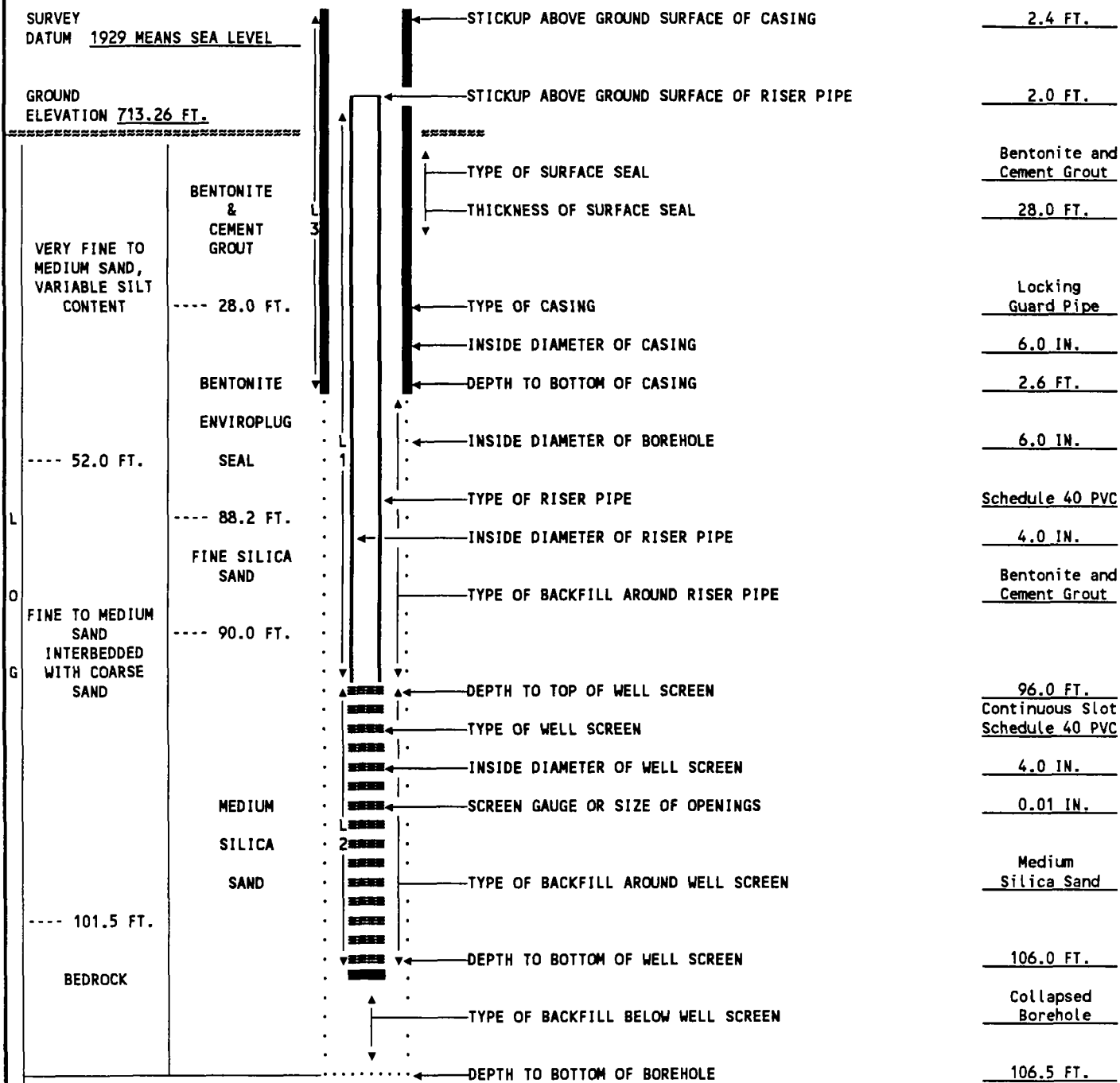
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 120 C
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. MANN, B. MITCHELL, S. BEAL C&S

BORING NO. B 120 C
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JUNE 25 1991
ESE Rep. B. GIGLIOTTI



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{98.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{108.0 \text{ FT.}}{\text{PAY LENGTH}}$$

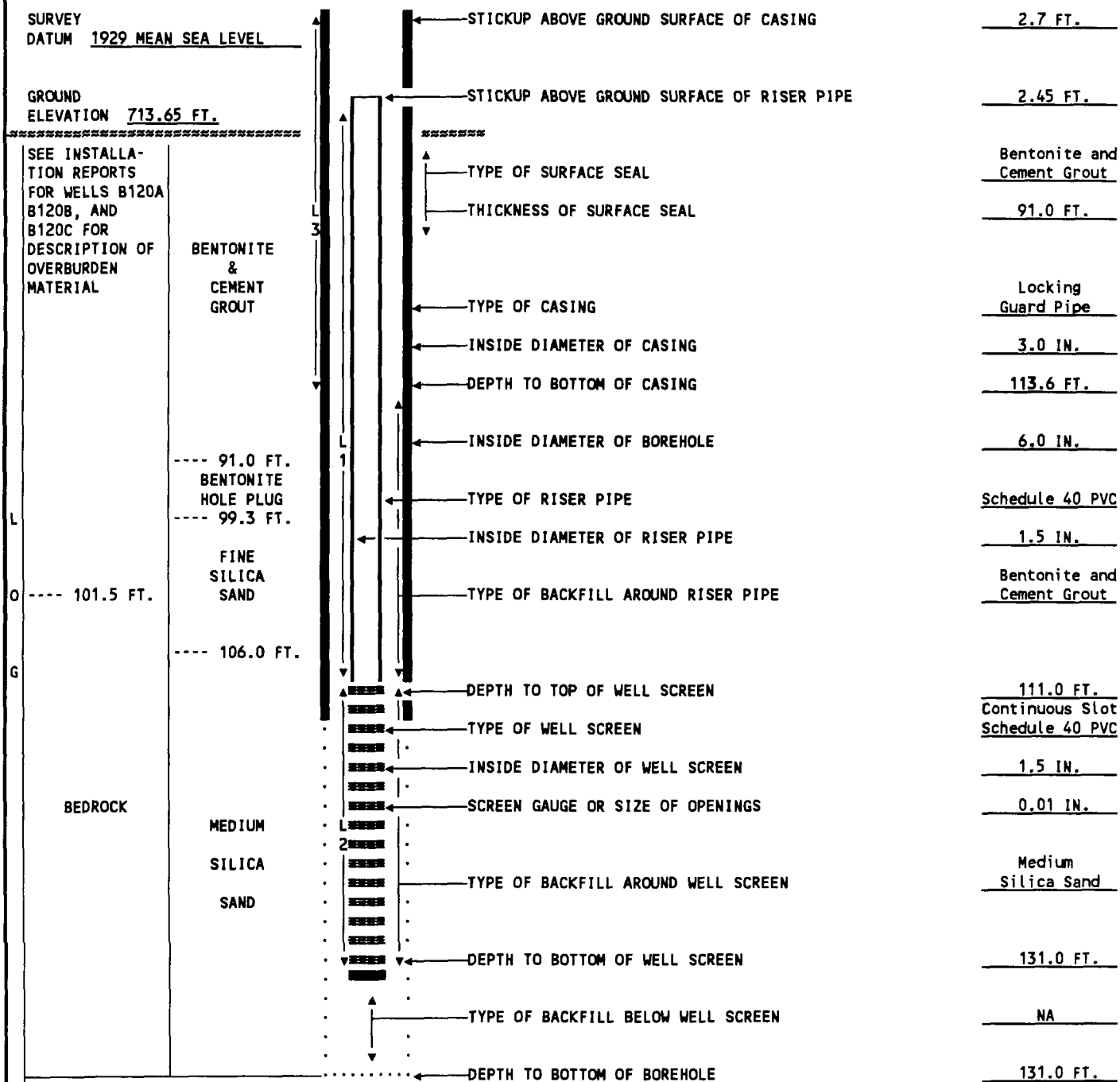
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 120 D
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. MANN, B. MITCHELL C&S

BORING NO. B 120 D
LOCATION: SEE PLAN
WELL TYPE: BEDROCK
INSTALL. DATE: JUNE 24 1991
ESE Rep. B. GIGLIOTTI



(FIGURE NOT TO SCALE)

$$\left[\frac{116.3 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{113.45 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{20.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{133.45 \text{ FT.}}{\text{PAY LENGTH}}$$

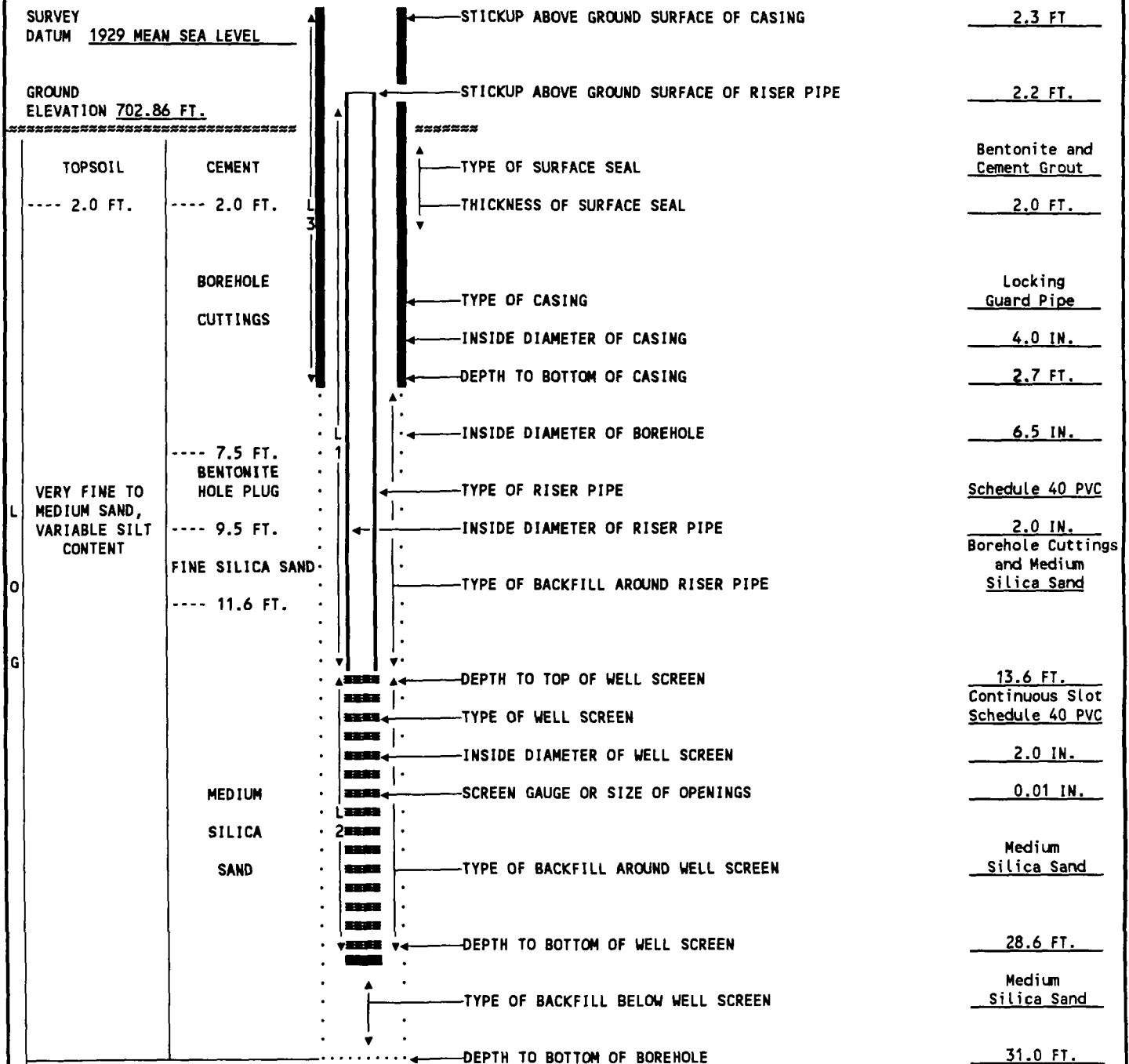
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 121 OW
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): J. FRANCIS, M. PHILBIN EDI

BORING NO. B 121
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: MAY 30 1991
ESE Rep. H.K. WILSON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] + \left[\frac{15.8 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} \right] + \left[\frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{30.8 \text{ FT.}}{\text{PAY LENGTH}}$$

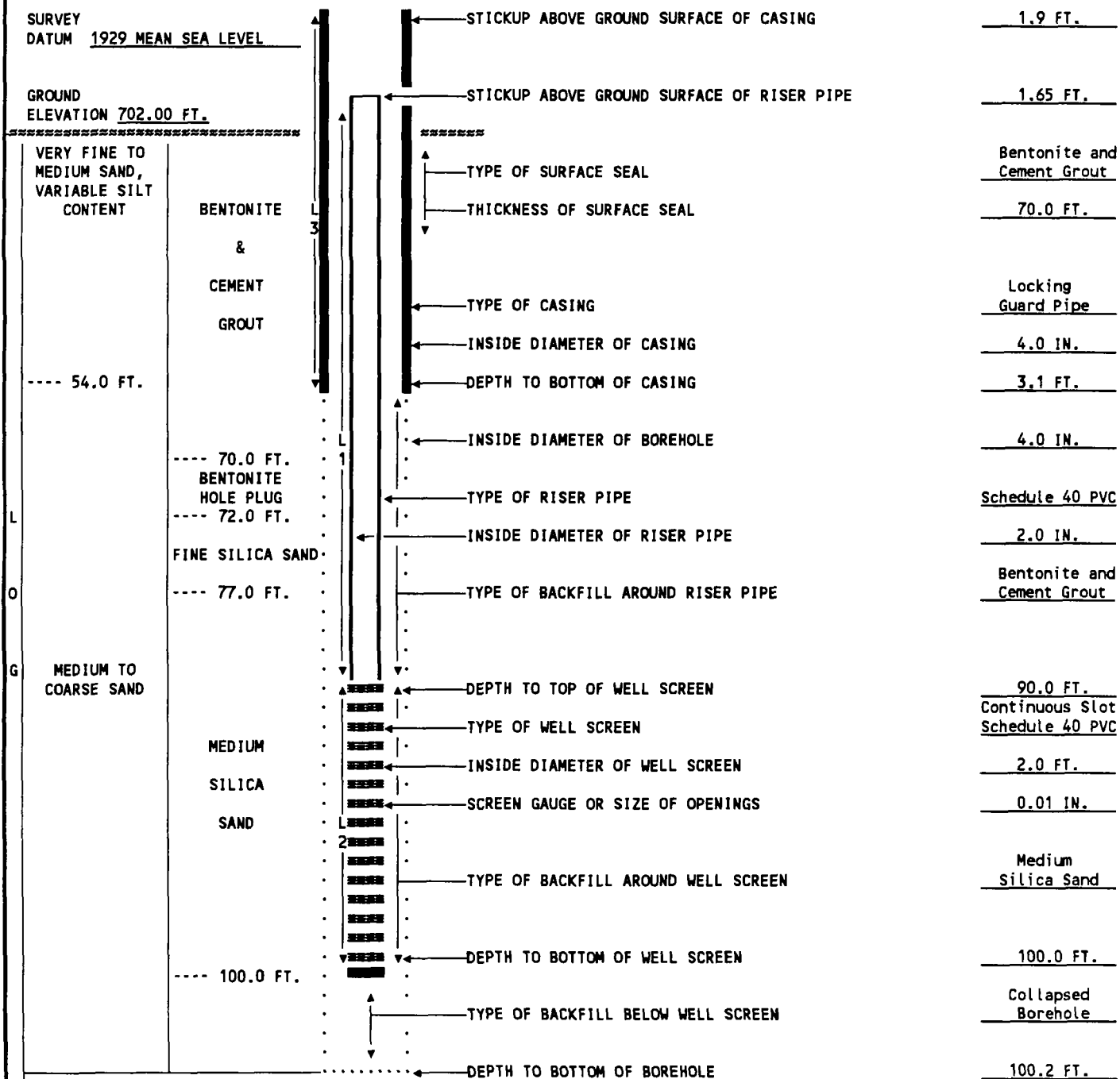
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 121 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. HAYES, J. GRASSER EDI

BORING NO. B 121 A
LOCATION: SEE PLAN
WELL TYPE: INTERMEDIATE
INSTALL. DATE: JULY 8 1991
ESE Rep. D. HULL



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{91.65 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{101.65 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 121 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): B. HAYES, J. GRASSER EDI

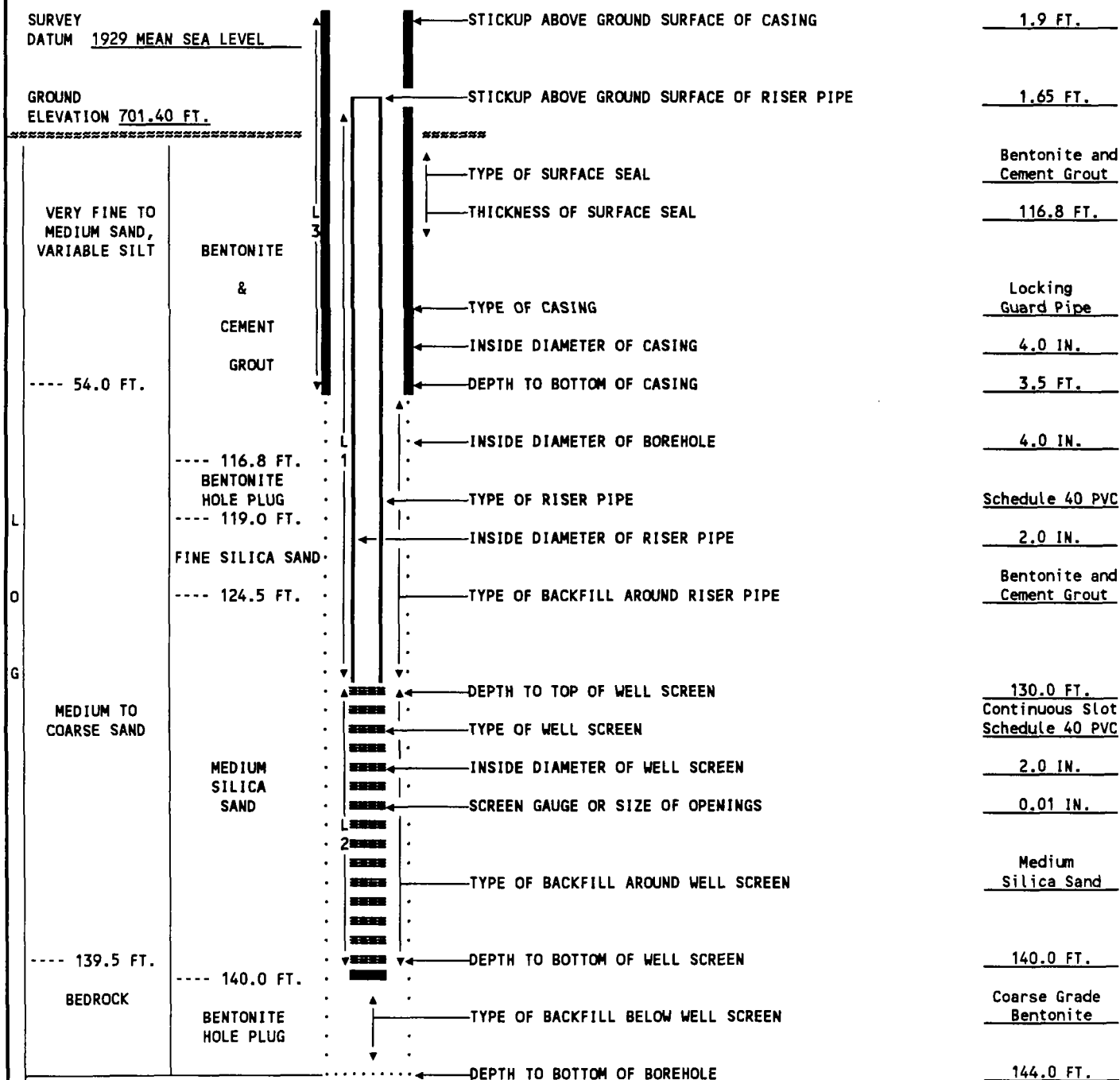
BORING NO. B 121 B

LOCATION: SEE PLAN

WELL TYPE: TOR

INSTALL. DATE: JULY 2 1991

ESE Rep. D. HULL



(FIGURE NOT TO SCALE)

$$\left[\frac{5.4 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{131.65 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{141.65 \text{ FT.}}{\text{PAY LENGTH}}$$

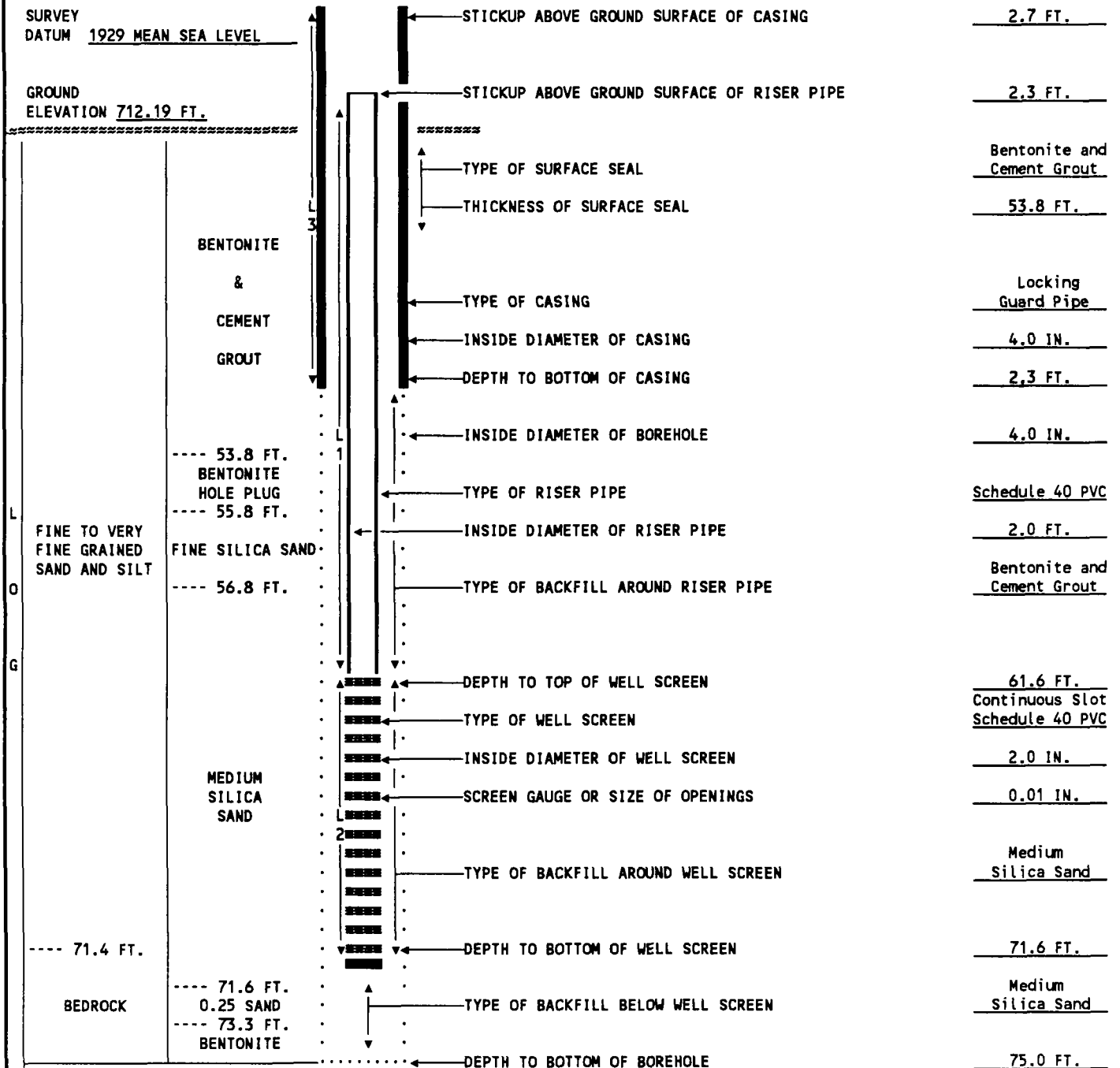
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 122
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. HAYES, J. GRASSER EDI

BORING NO. B 122
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JUNE 6 1991
ESE Rep. D. HULL



(FIGURE NOT TO SCALE)

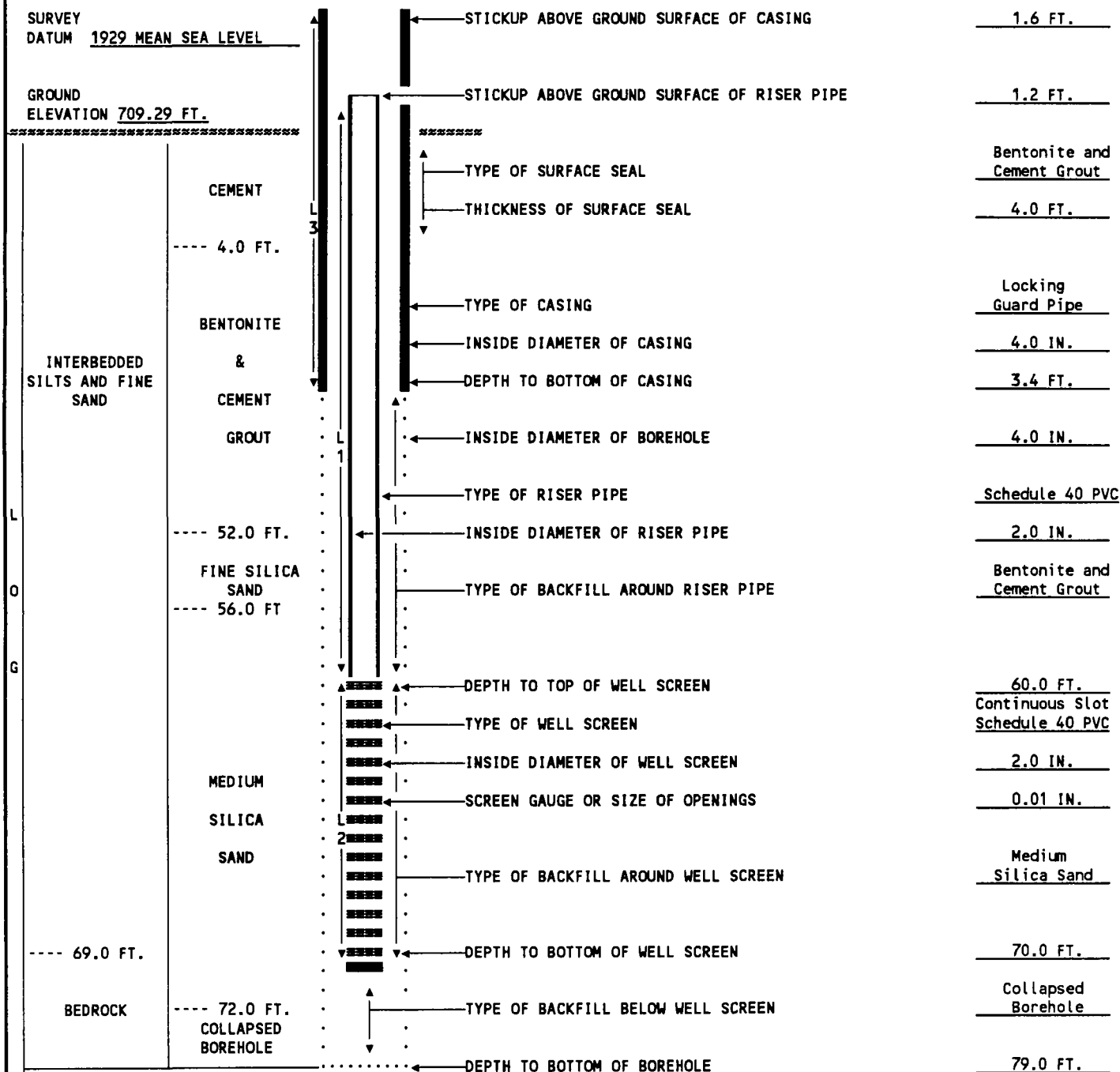
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 125
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(s): BRIAN HAYES, JEFF STONE EDI

BORING NO. B 125
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: MAY 28, 1991
ESE Rep. D. HULL



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{61.2 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{71.2 \text{ FT.}}{\text{PAY LENGTH}}$$

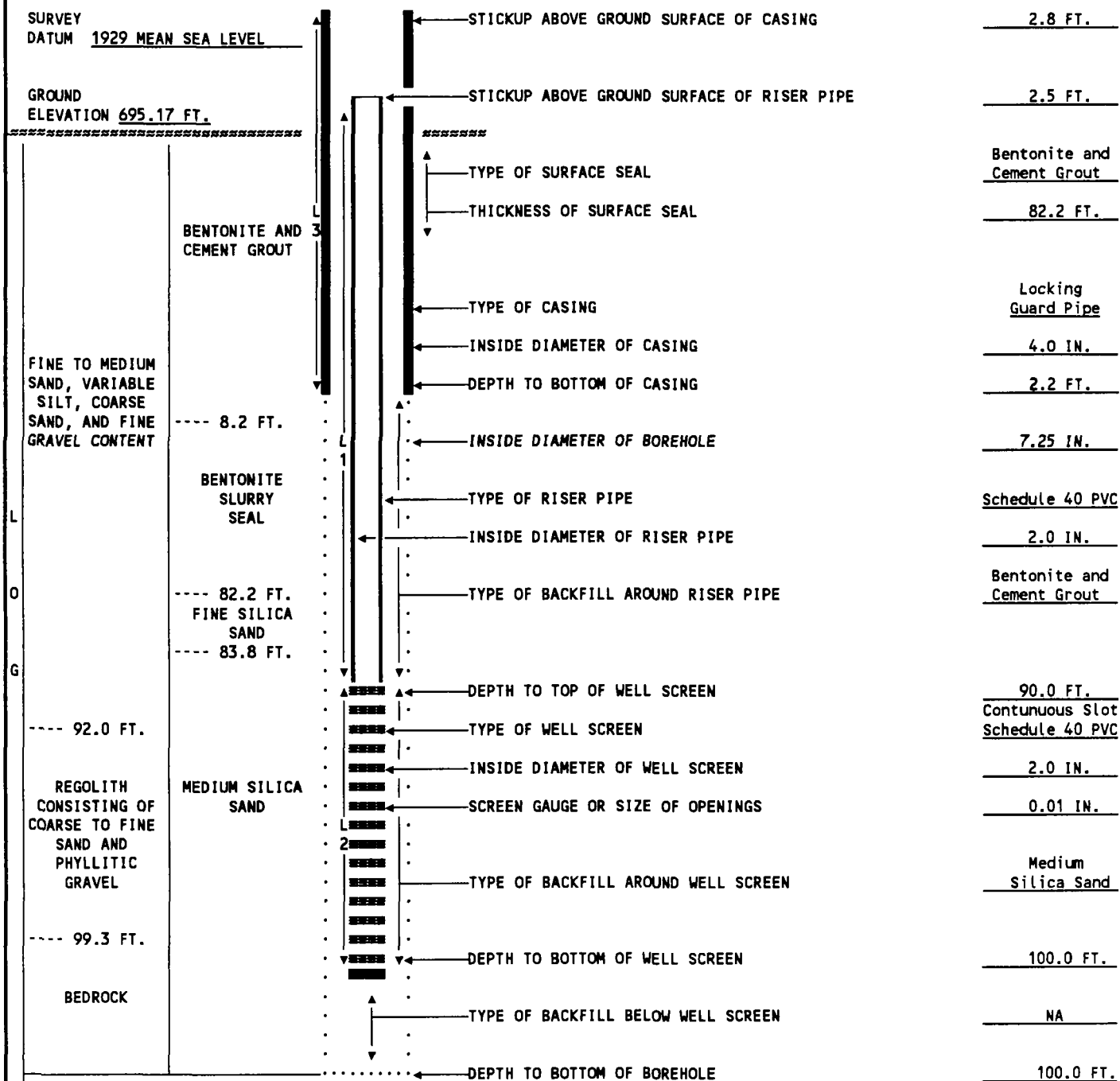
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G126A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): RICK UTLEY, DUANE DREW, BOB MANN

BORING NO. B126A
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: AUG. 1, 1991
ESE Rep. BARBARA GIGLIOTTI



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{92.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{102.5 \text{ FT.}}{\text{PAY LENGTH}}$$

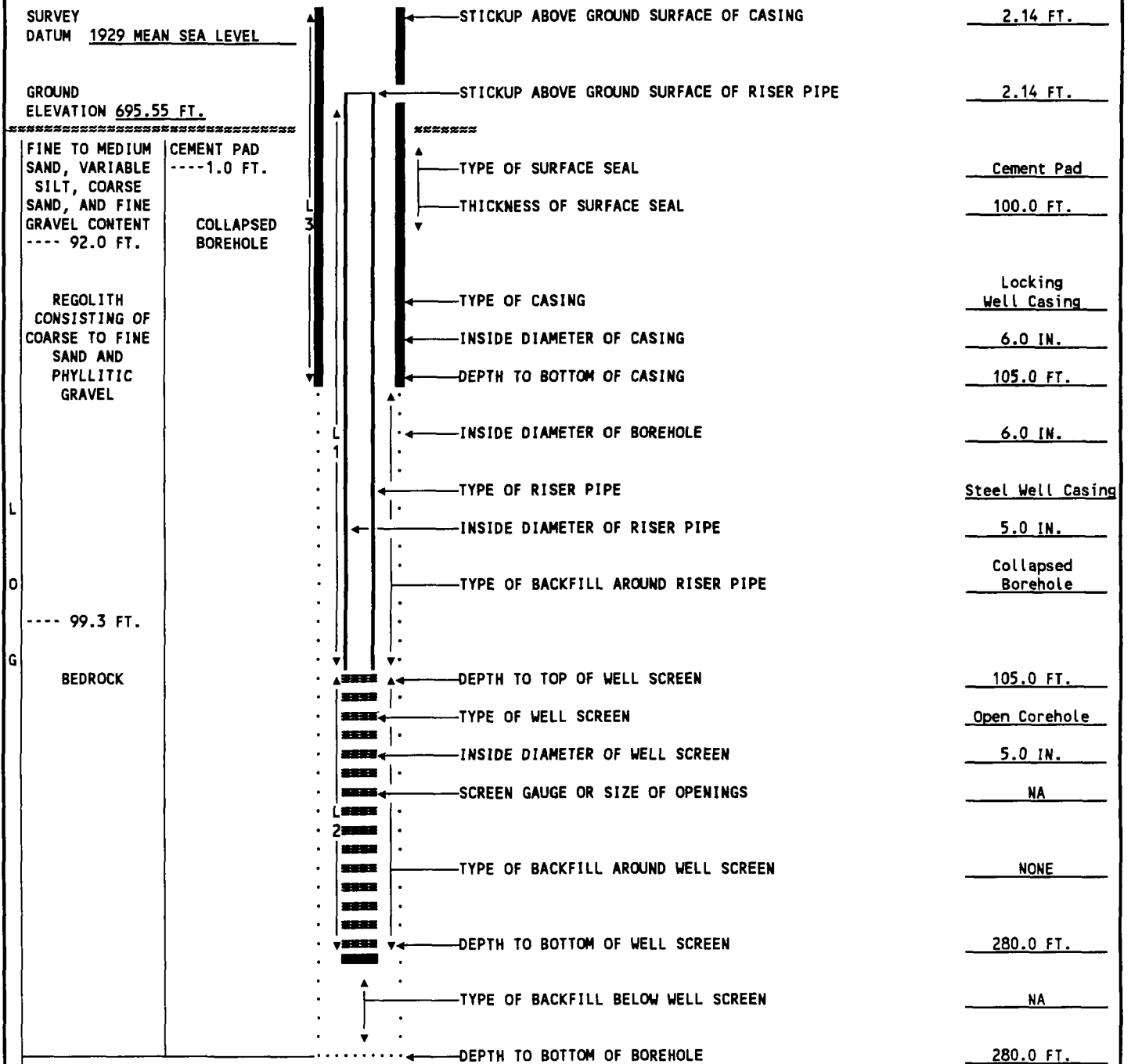
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G126B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): RICK UTLEY, DUANE DREW, BOB MANN

BORING NO. B126B
LOCATION: SEE PLAN
WELL TYPE: BEDROCK
INSTALL. DATE: AUG. 5, 1991
ESE Rep. BARBARA GIGLIOTTI



(FIGURE NOT TO SCALE)

$$\left[\frac{105.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{0.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{105.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{0.0 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 127 A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(s): J. FRANCIS, M. PHILBIN EDI

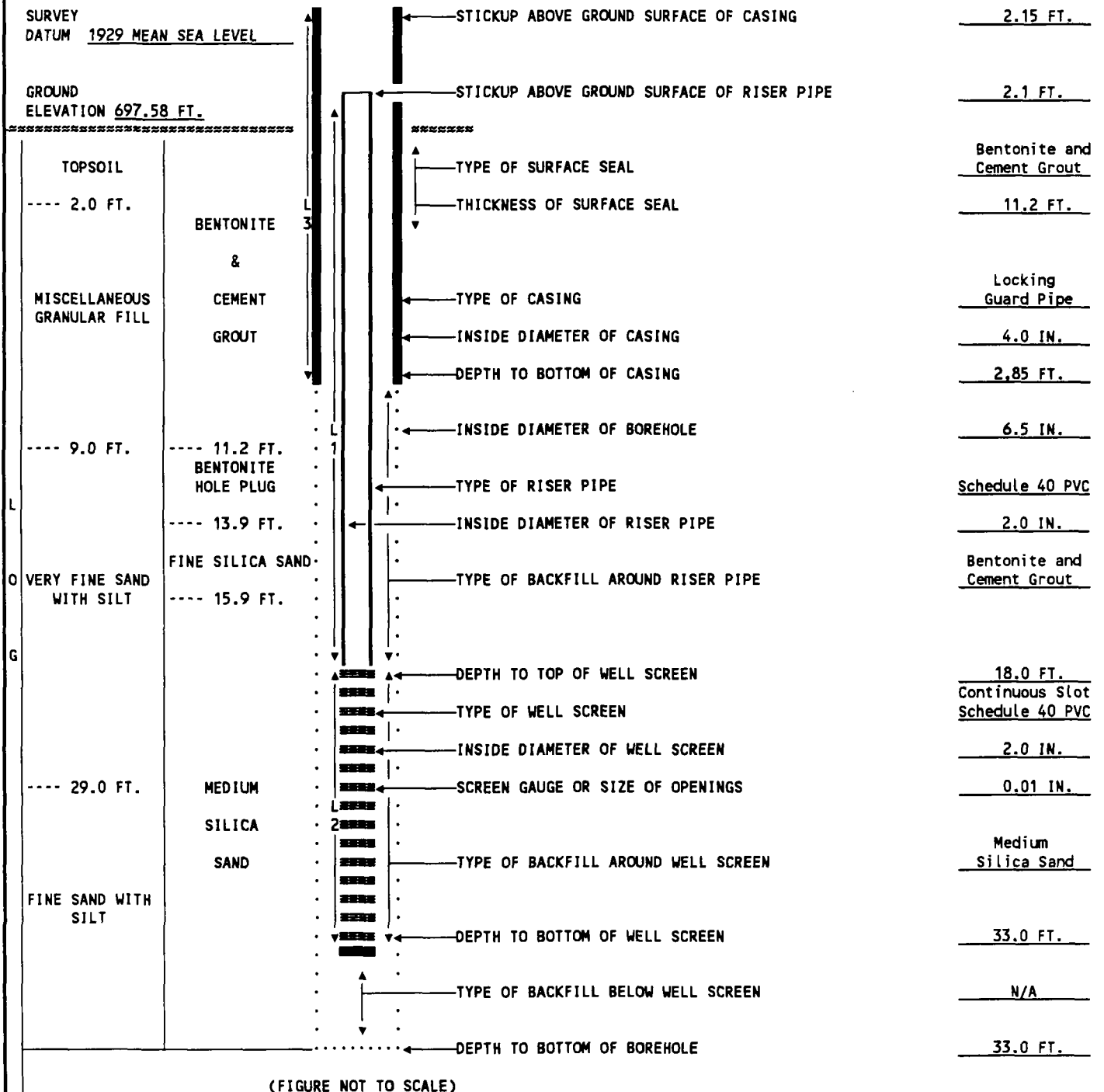
BORING NO. B 127 A

LOCATION: SEE PLAN

WELL TYPE: BRIDGING

INSTALL. DATE: JUNE 6 1991

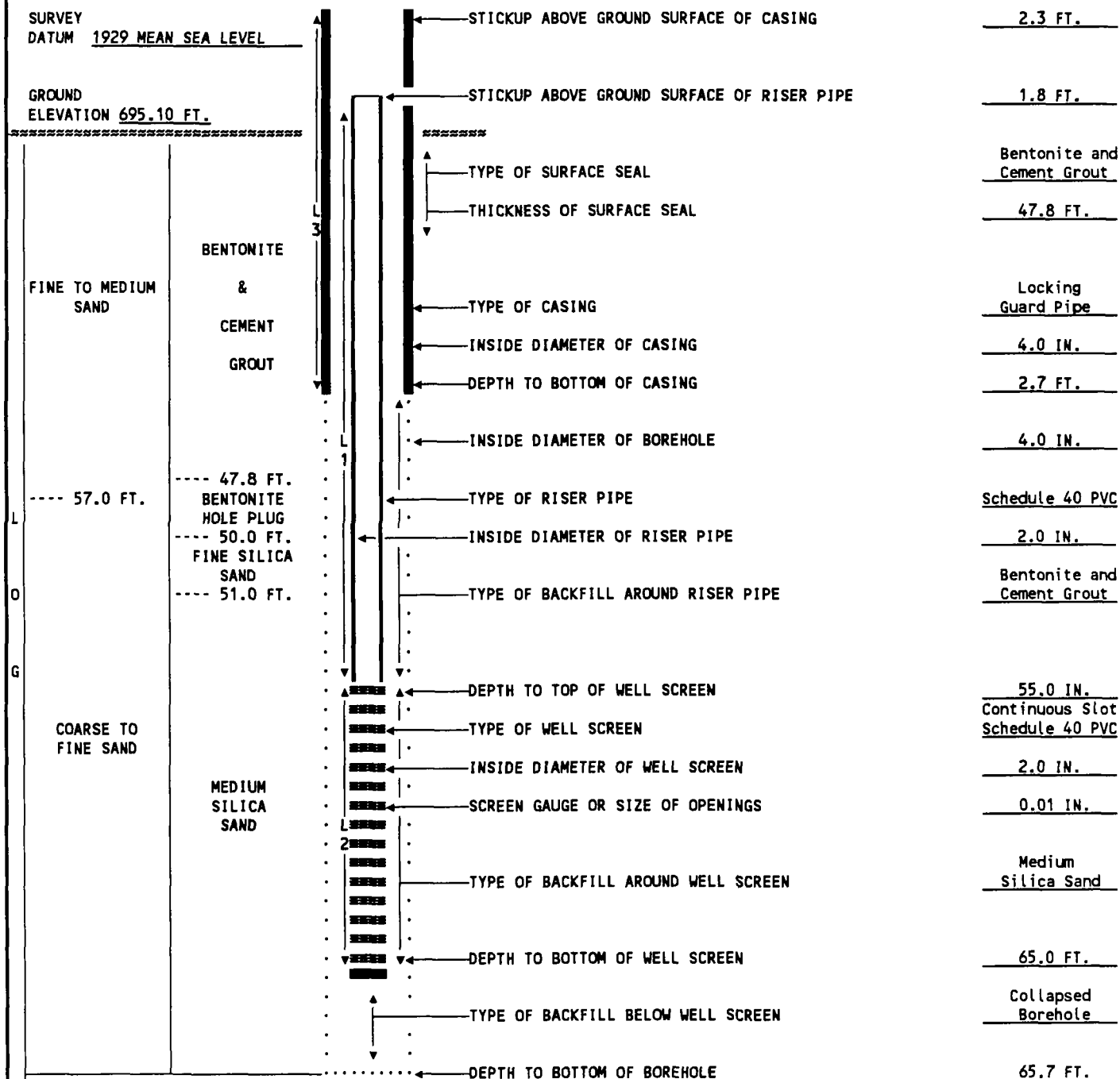
ESE Rep. H.K. WILSON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{20.1 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{35.1 \text{ FT.}}{\text{PAY LENGTH}}$$

WELL NO. G 127 B
FILE NO. 4905024

BORING NO. B 127 B
LOCATION: SEE PLAN
WELL TYPE: INTERMEDIATE
INSTALL. DATE: JULY 11 1991
ESE Rep. D. HULL



(FIGURE NOT TO SCALE)

$$\frac{5 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} + \frac{56.8 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} = \frac{66.8 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 127 C
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(s): B. HAYES, J. GRASSER EDI

BORING NO. B 127 C

LOCATION: SEE PLAN

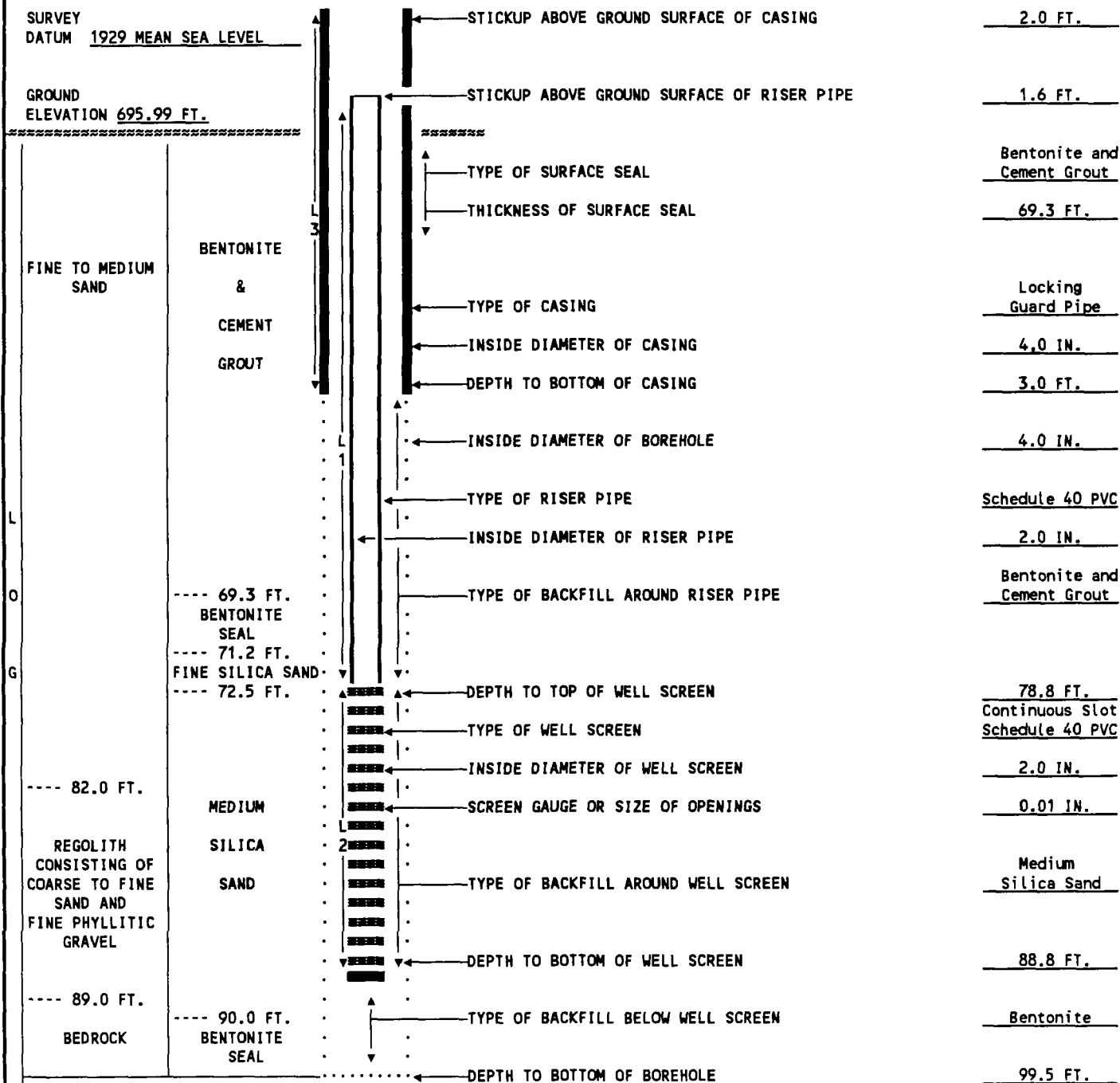
WELL TYPE: TOR

INSTALL. DATE: JULY 16 1991

ESE Rep. B. GIGLIOTTI

SURVEY
DATUM 1929 MEAN SEA LEVEL

GROUND
ELEVATION 695.99 FT.



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{80.4 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{90.4 \text{ FT.}}{\text{PAY LENGTH}}$$

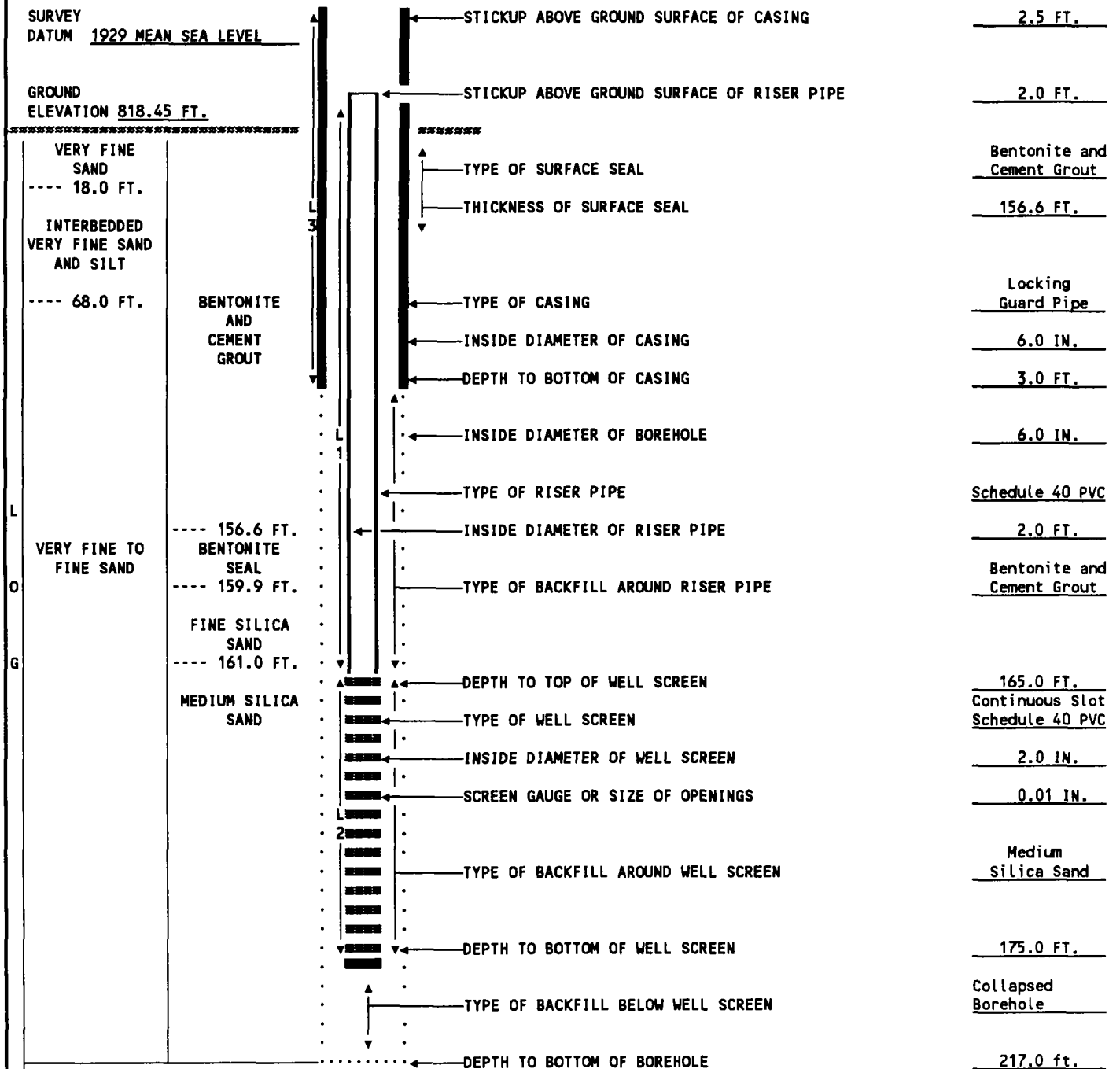
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 131 B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): R. UTLEY, D. DREW C&S

BORING NO. B 131 B
LOCATION: SEE PLAN
WELL TYPE: INTERMEDIATE
INSTALL. DATE: MAY 20, 1991
ESE Rep. R. GALYEN



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{167.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{177.0 \text{ FT.}}{\text{PAY LENGTH}}$$

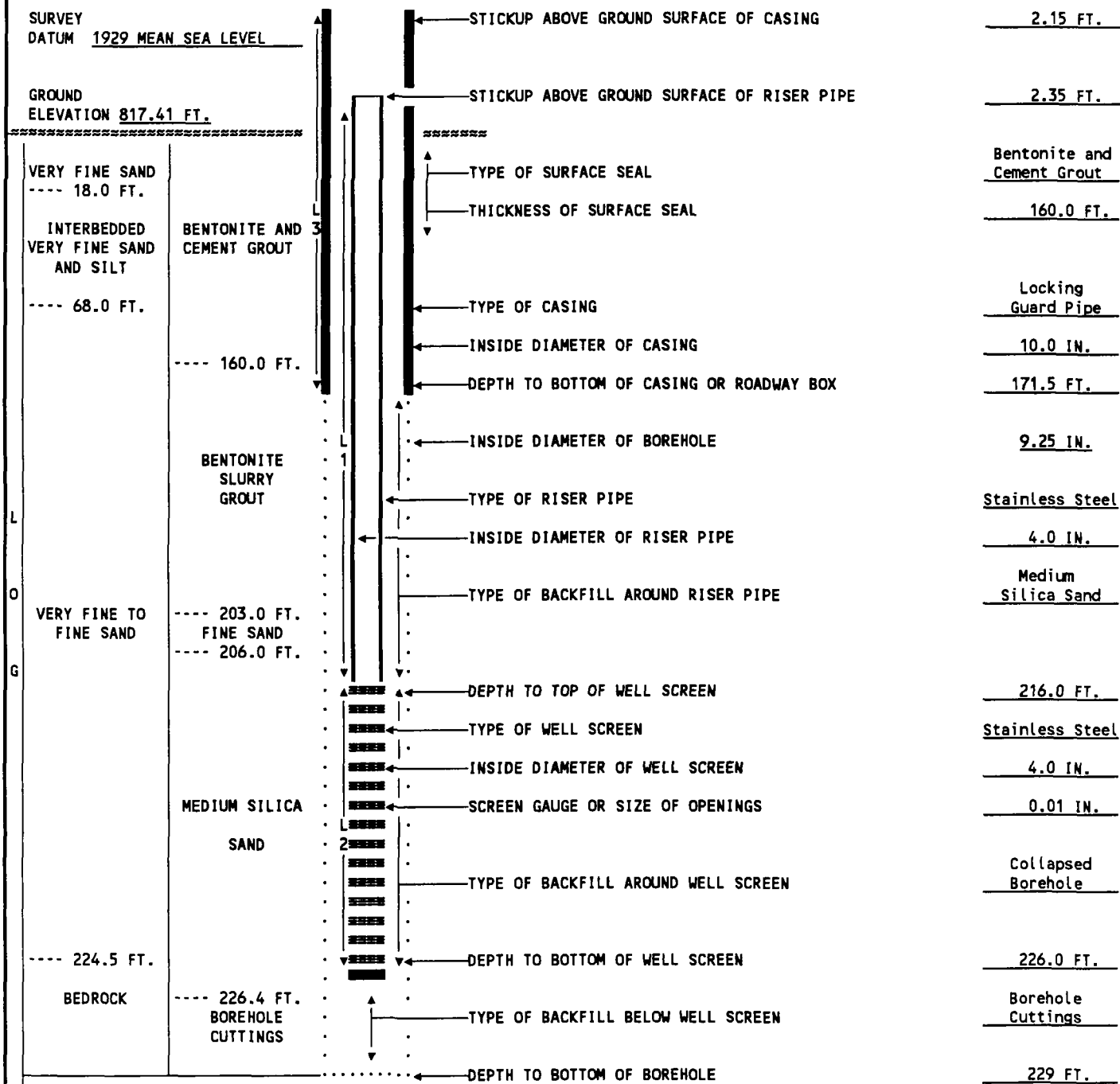
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 131 C
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): B. MANN, M. LECLAIRE, M. BANNISTER C&S

BORING NO. B 131 C
LOCATION: SEE PLAN
WELL TYPE: TOR
INSTALL. DATE: JULY 23 1991
ESE Rep. H.K. WILSON



$$\left[\frac{6.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{218.35 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{228.35 \text{ FT.}}{\text{PAY LENGTH}}$$

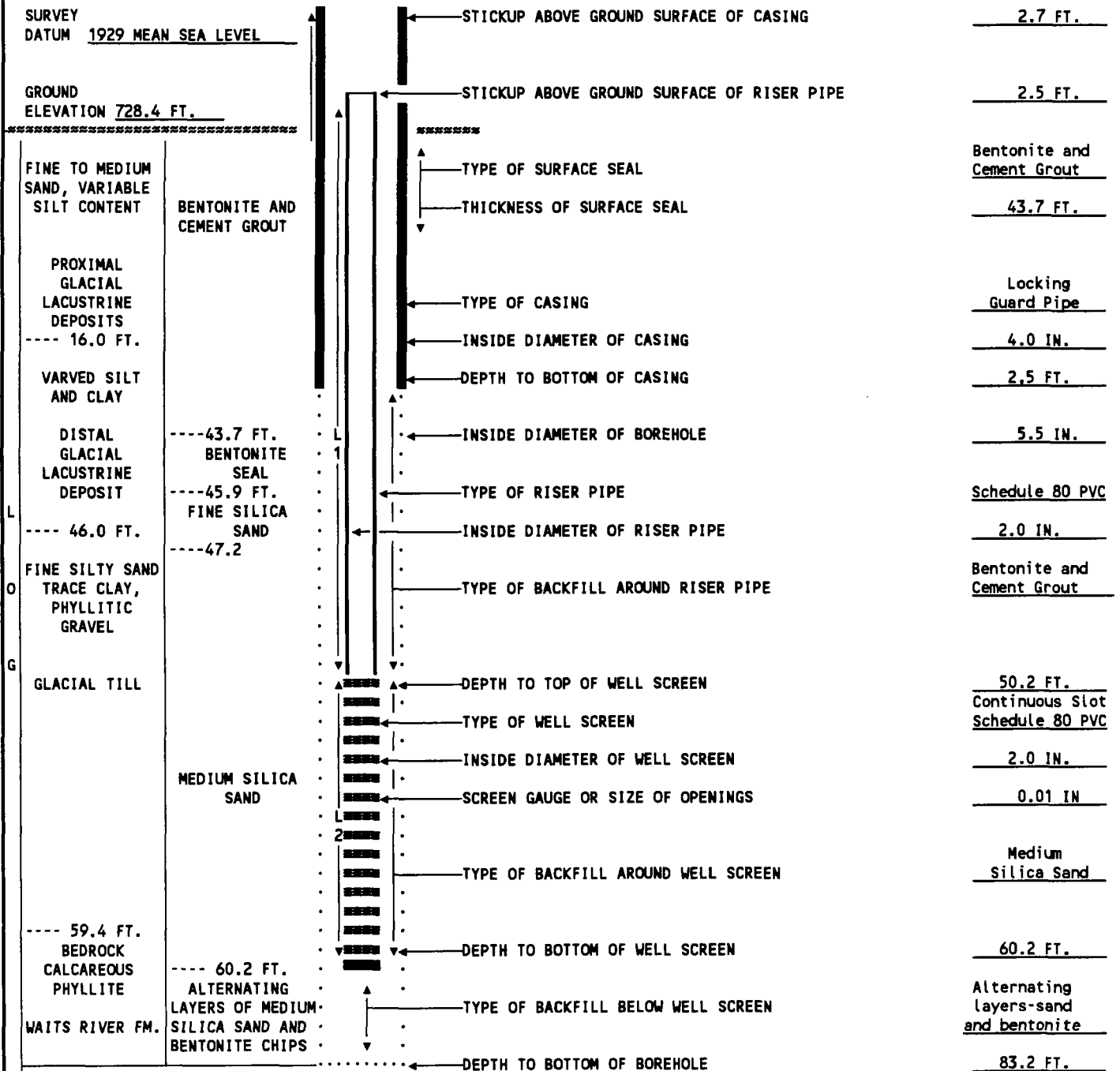
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B132
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): S. LAMARCHE

BORING NO. B132
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF ROCK
INSTALL. DATE: JUNE 22, 1992
ESE Rep. J. BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{52.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{62.0 \text{ FT.}}{\text{PAY LENGTH}}$$

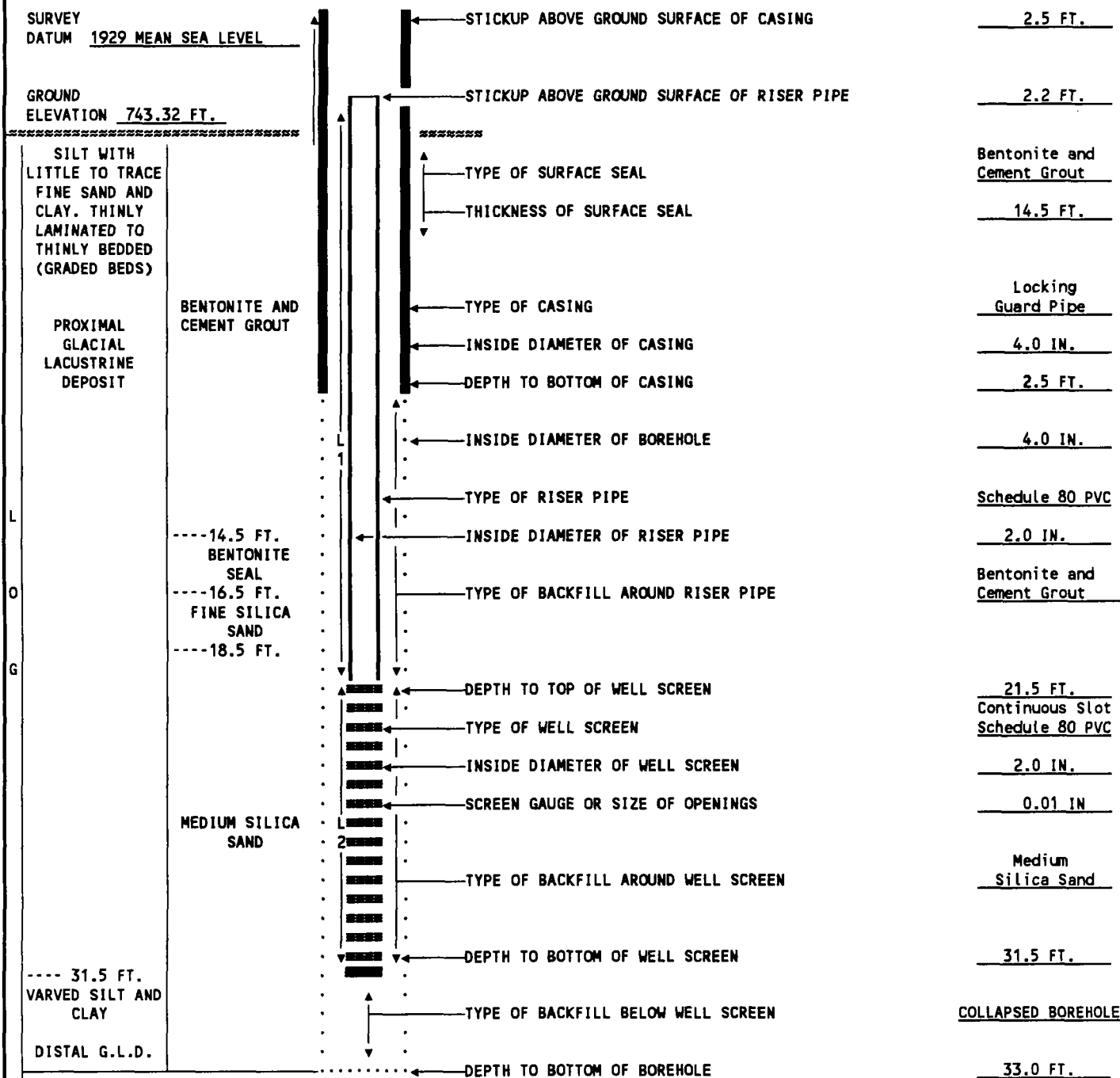
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B133
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(s): S. LAMARCHE

BORING NO. B133
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF DISTAL
INSTALL. DATE: MAY 29, 1992
ESE Rep. J. BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{23.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{33.5 \text{ FT.}}{\text{PAY LENGTH}}$$

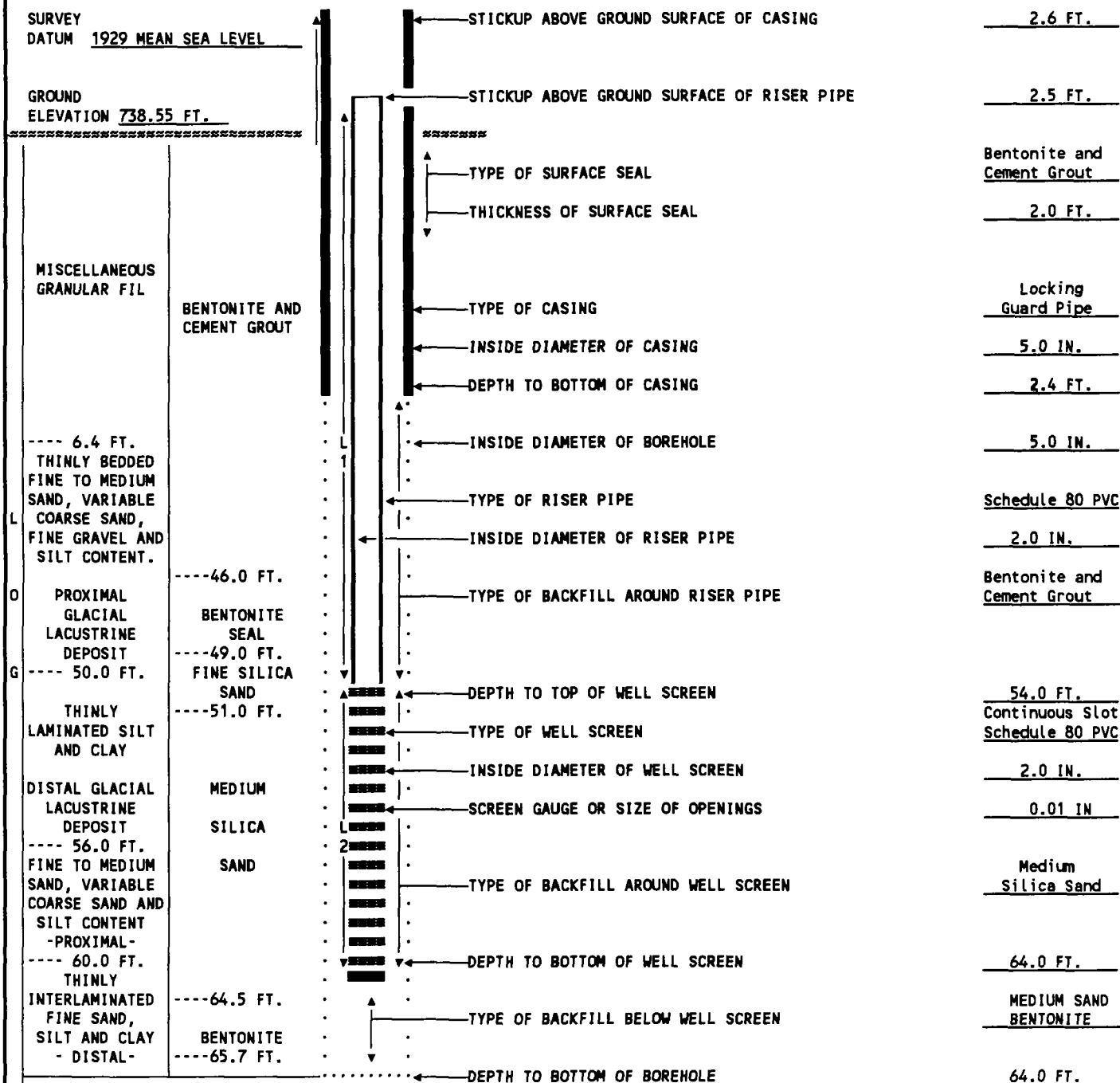
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B134A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): A. CARON

BORING NO. B134A
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF DISTAL
INSTALL. DATE: JUNE 4, 1992
ESE Rep. P. BRUNO



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{56.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{66.5 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B134B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): A. CARROW, R. DOLAN

BORING NO. B134
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF DISTAL
INSTALL. DATE: JUNE 2, 1992
ESE Rep. P. BRUNO

SURVEY
DATUM 1929 MEAN SEA LEVEL

GROUND
ELEVATION 737.95 FT.

MISCELLANEOUS
GRANULAR FILL

---- 6.0 FT.

PROXIMAL
GLACIAL
LACUSTRINE
DEPOSIT

---- 50.0 FT.

TRANSITIONAL
GLACIAL
LACUSTRINE
DEPOSIT

---- 56.0 FT.

PROXIMAL
GLACIAL
LACUSTRINE
DEPOSIT

---- 60.0 FT.

DISTAL
GLACIAL
LACUSTRINE
DEPOSIT

---- 68.0 FT.

GRAY SILTY
FINE TO MEDIUM
SAND

PROXIMAL
GLACIAL
LACUSTRINE
DEPOSIT

---- 112.0 FT.
SILTY CLAY TO
CLAYEY SILT
DISTAL G.L.D.

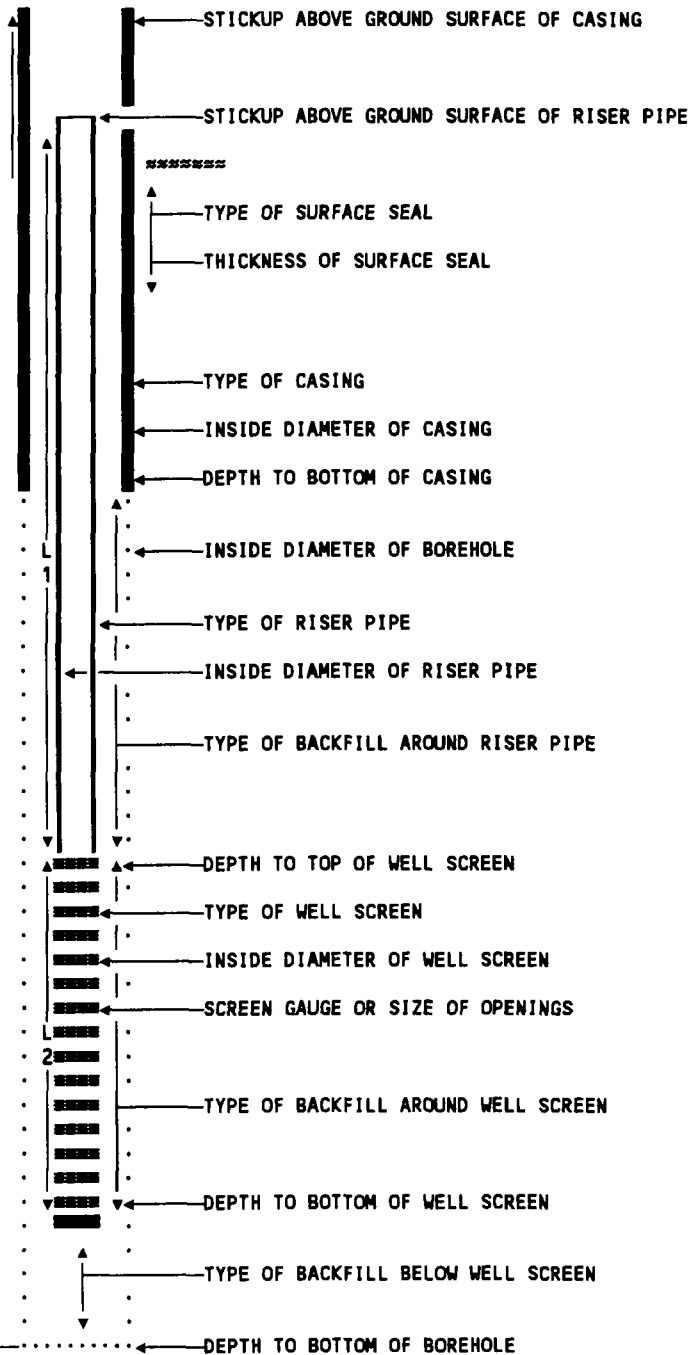
BENTONITE AND
CEMENT GROUT

----95.0 FT.
BENTONITE
SEAL

----97.0 FT.
FINE SILICA
SAND

----99.0 FT.

MEDIUM SILICA
SAND



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{104.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{114.0 \text{ FT.}}{\text{PAY LENGTH}}$$

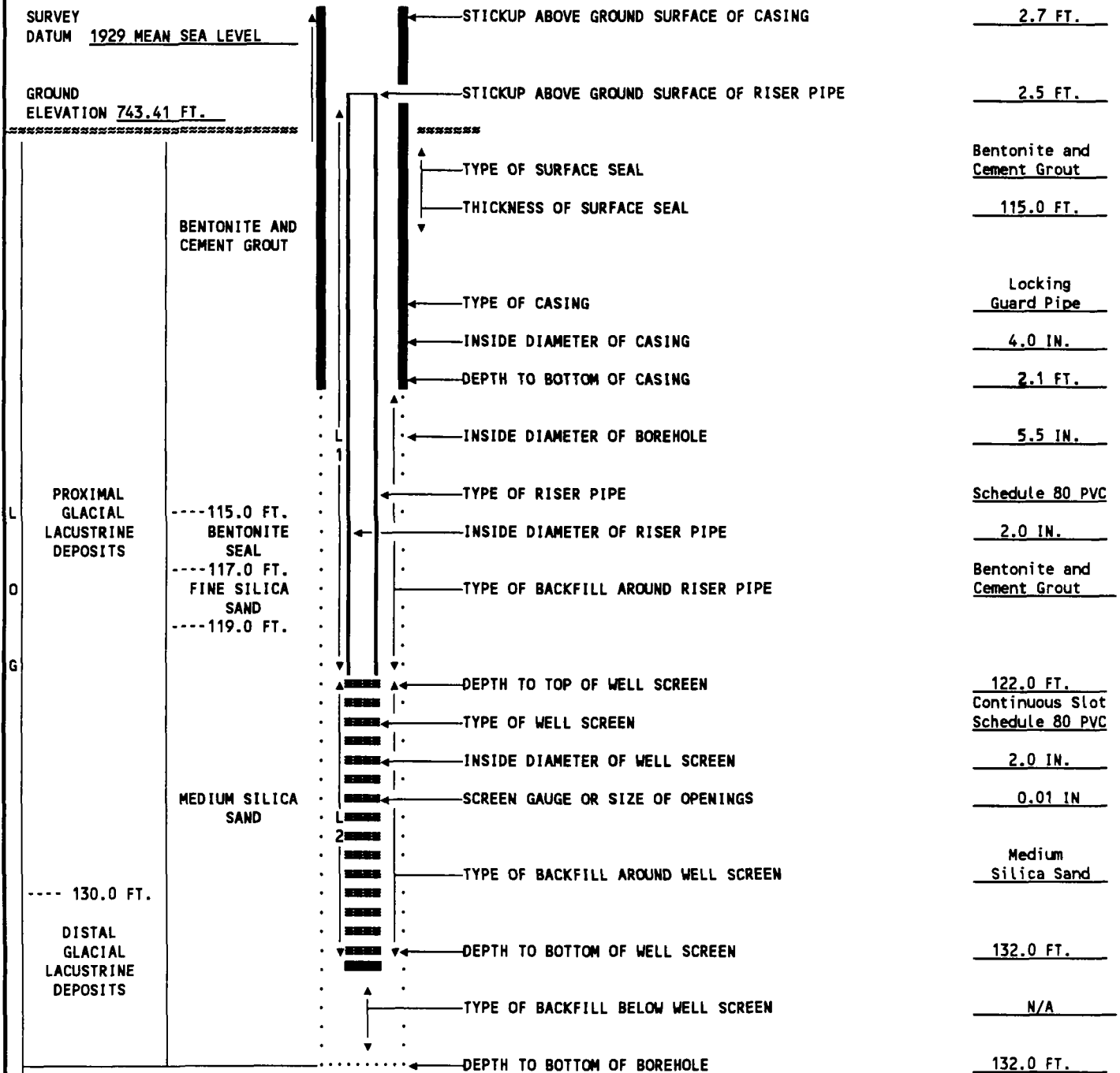
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B135A
FILE NO. 4905024

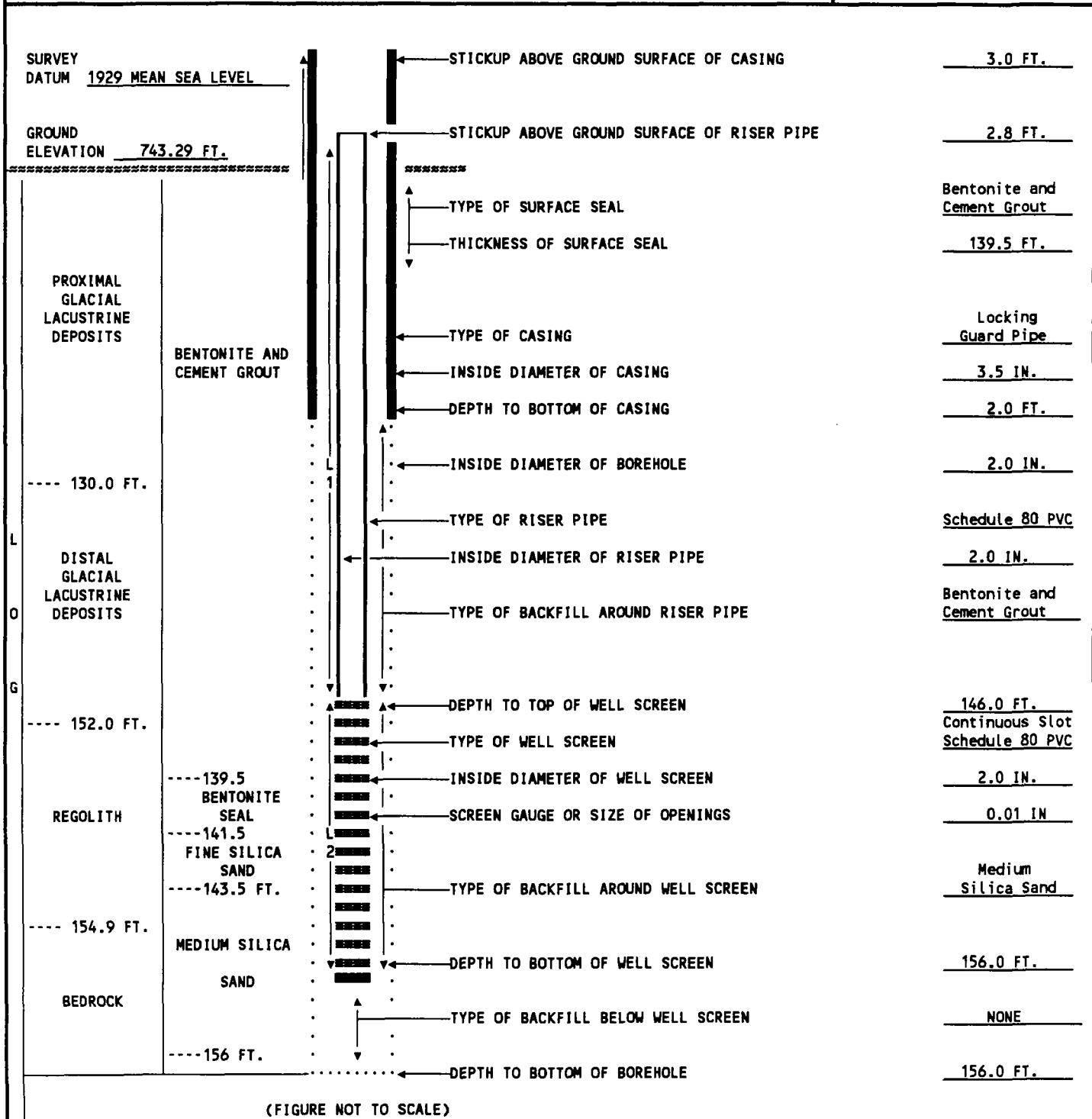
PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): A. CARON, D. FUNNEL

BORING NO. B135A
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF DISTAL
INSTALL. DATE: JUNE 23, 1992
ESE Rep. L. SCHULTZ



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{122.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{132.0 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NH 03031	GROUNDWATER MONITORING WELL REPORT	WELL NO. <u>B135B</u> FILE NO. <u>4905024</u>
PROJECT: <u>PARKER LANDFILL PROJECT</u> LOCATION: <u>LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING INC.</u> DRILLER(s): <u>A. CARRON</u>		BORING NO. <u>B135B</u> LOCATION: <u>SEE PLAN</u> TYPE OF WELL: <u>TOP OF ROCK</u> INSTALL. DATE: <u>JUNE 18, 1992</u> ESE Rep. <u>J. HARSHMAN</u>



$$\left[\frac{\text{FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{158.8 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B136A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: ENVIRONMENTAL DRILLING INC.

DRILLER(S): T. BELSKY, D. FUNNEL

BORING NO. B136A

LOCATION: SEE PLAN

TYPE OF WELL: BRIDGING

INSTALL. DATE: JULY 9, 1992

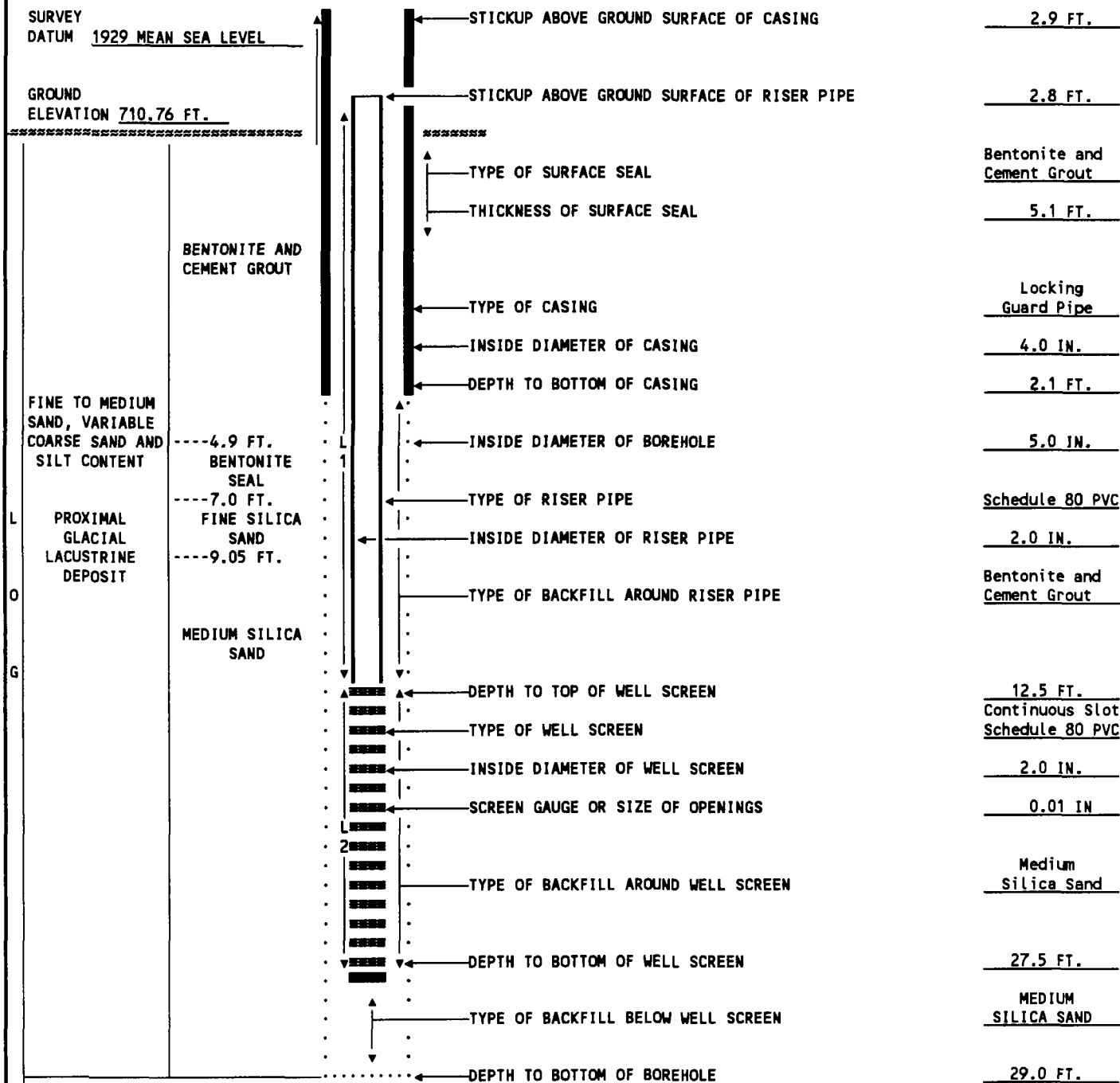
ESE Rep. P. DROBAT

SURVEY

DATUM 1929 MEAN SEA LEVEL

GROUND

ELEVATION 710.76 FT.



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{12.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{27.5 \text{ FT.}}{\text{PAY LENGTH}}$$

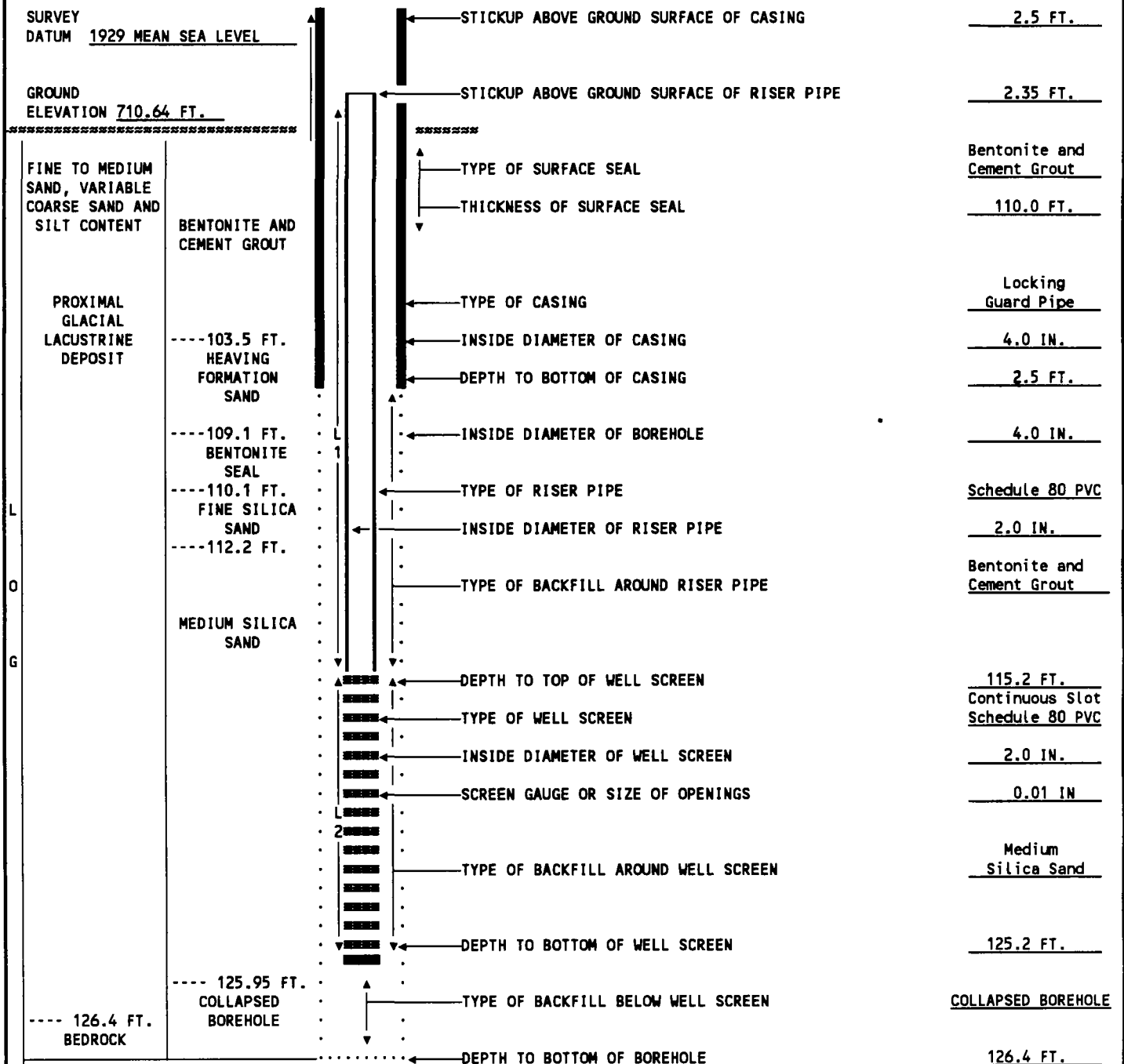
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B1368
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(s): T. BELSKY, D. FUNNEL

BORING NO. B1368
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF ROCK
INSTALL. DATE: JULY 7, 1992
ESE Rep. P. DROBAT



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{117.65 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = 127.65 \text{ FT. PAY LENGTH}$$

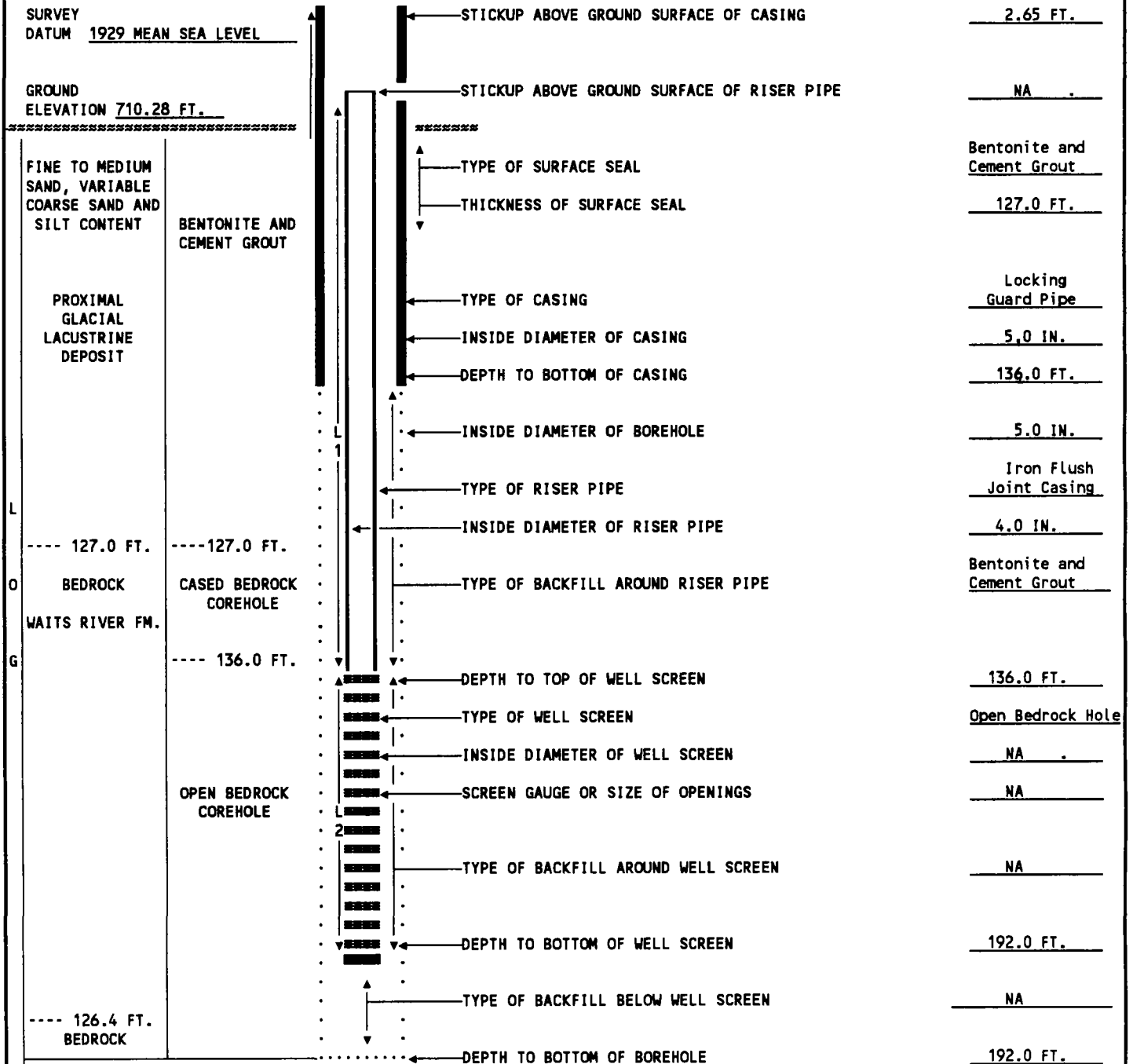
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B136C
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): T. BELSKY, D. FUNNEL

BORING NO. B136C
LOCATION: SEE PLAN
TYPE OF WELL: BEDROCK
INSTALL. DATE: JULY 7, 1992
ESE Rep. P. DROBAT



$$\left[\frac{2.65 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{194.65 \text{ FT.}}{\text{LENGTH OF IRON CASING (L1)}} + \frac{0.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = 194.65 \text{ FT.} \text{ PAY LENGTH}$$

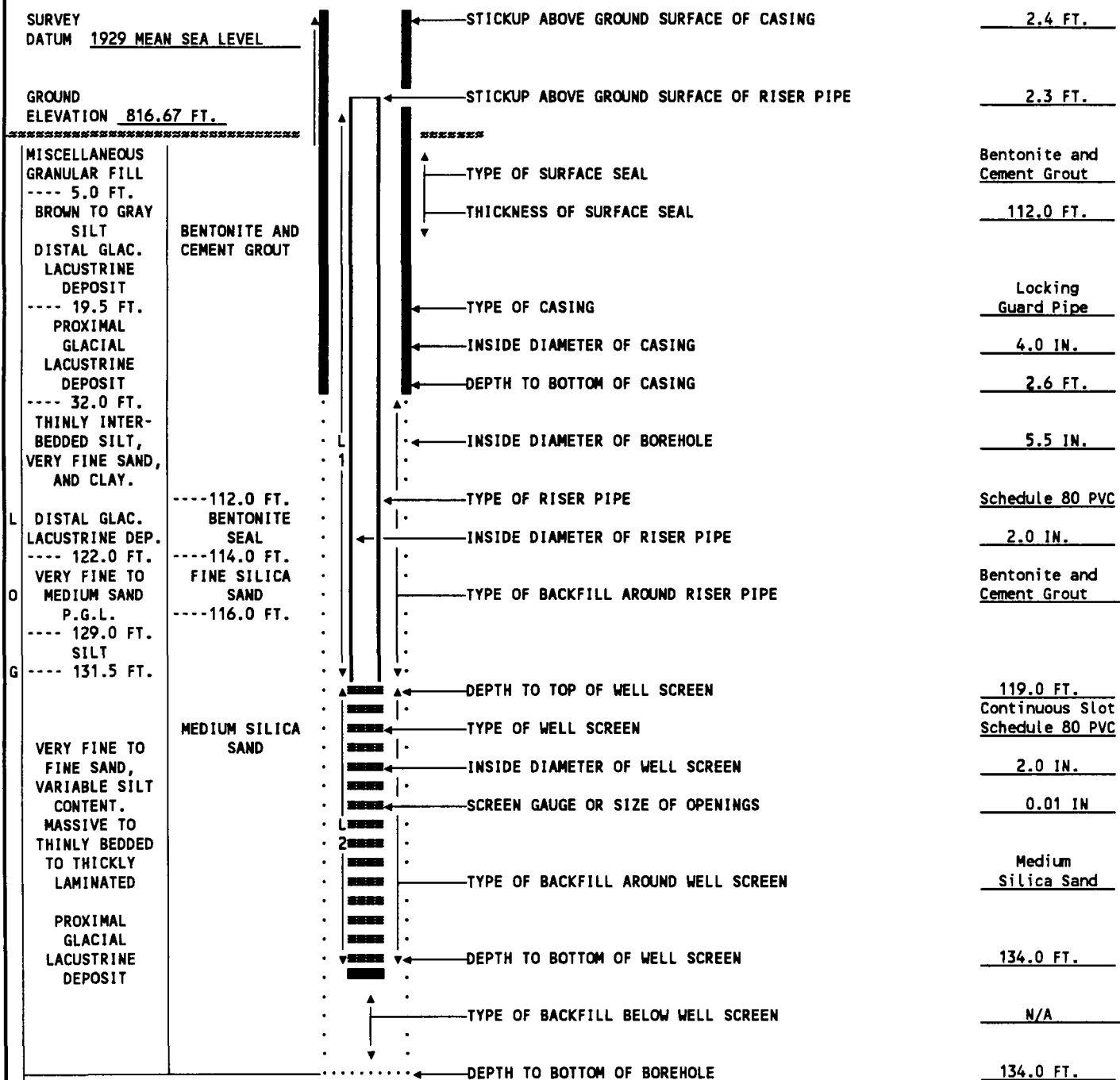
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B137A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): S LAMARCHE

BORING NO. B137a
LOCATION: SEE PLAN
TYPE OF WELL: BRIDGING
INSTALL. DATE: JUNE 25, 1992
ESE Rep. J. BANNON



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{121.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{136.0 \text{ FT.}}{\text{PAY LENGTH}}$$

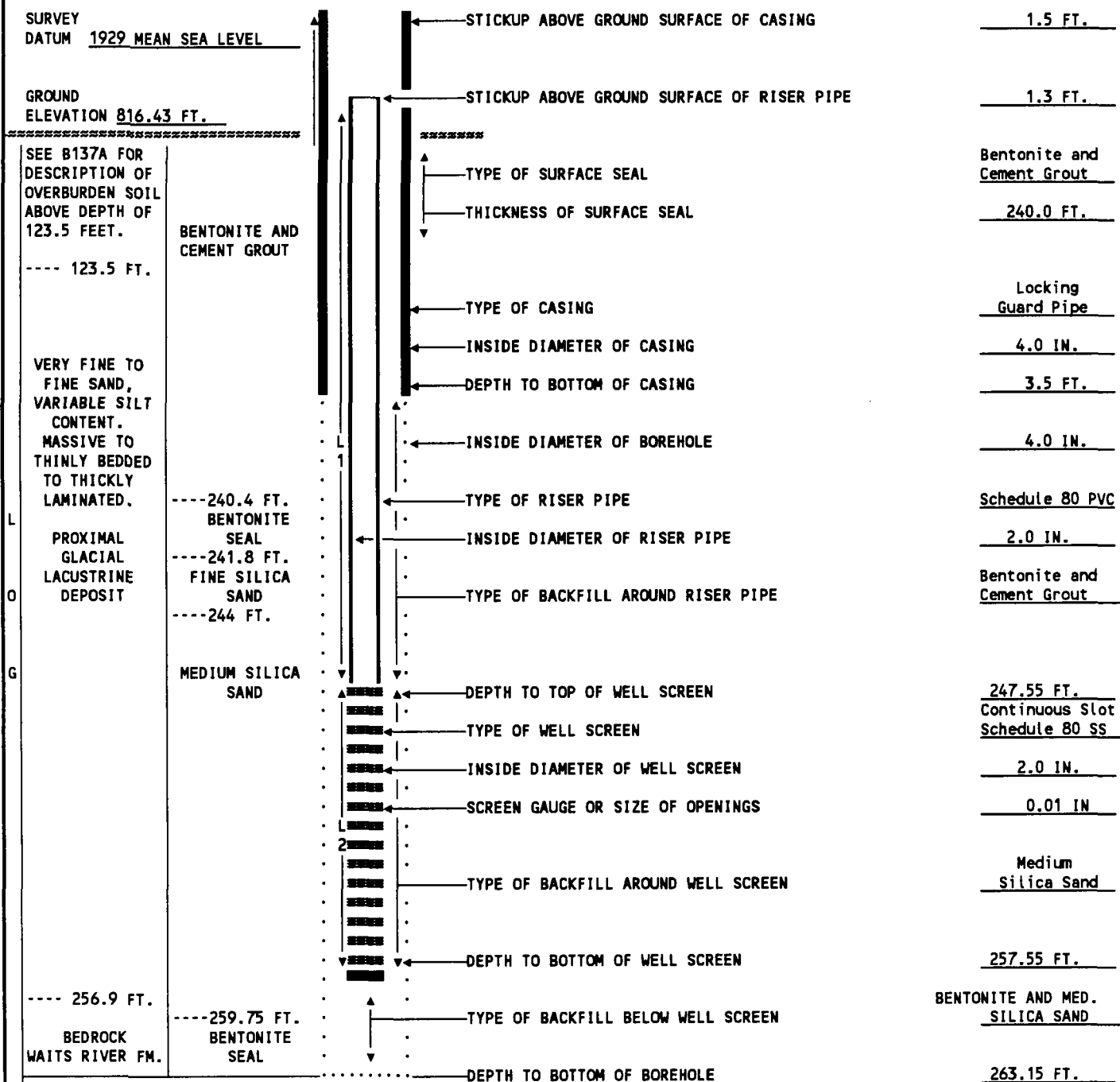
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B137B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): C. STAMAS, T. BELSKY

BORING NO. B137B
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF ROCK
INSTALL. DATE: JUNE 16, 1992
ESE Rep. P. DROBAT



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{250.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{260.0 \text{ FT.}}{\text{PAY LENGTH}}$$

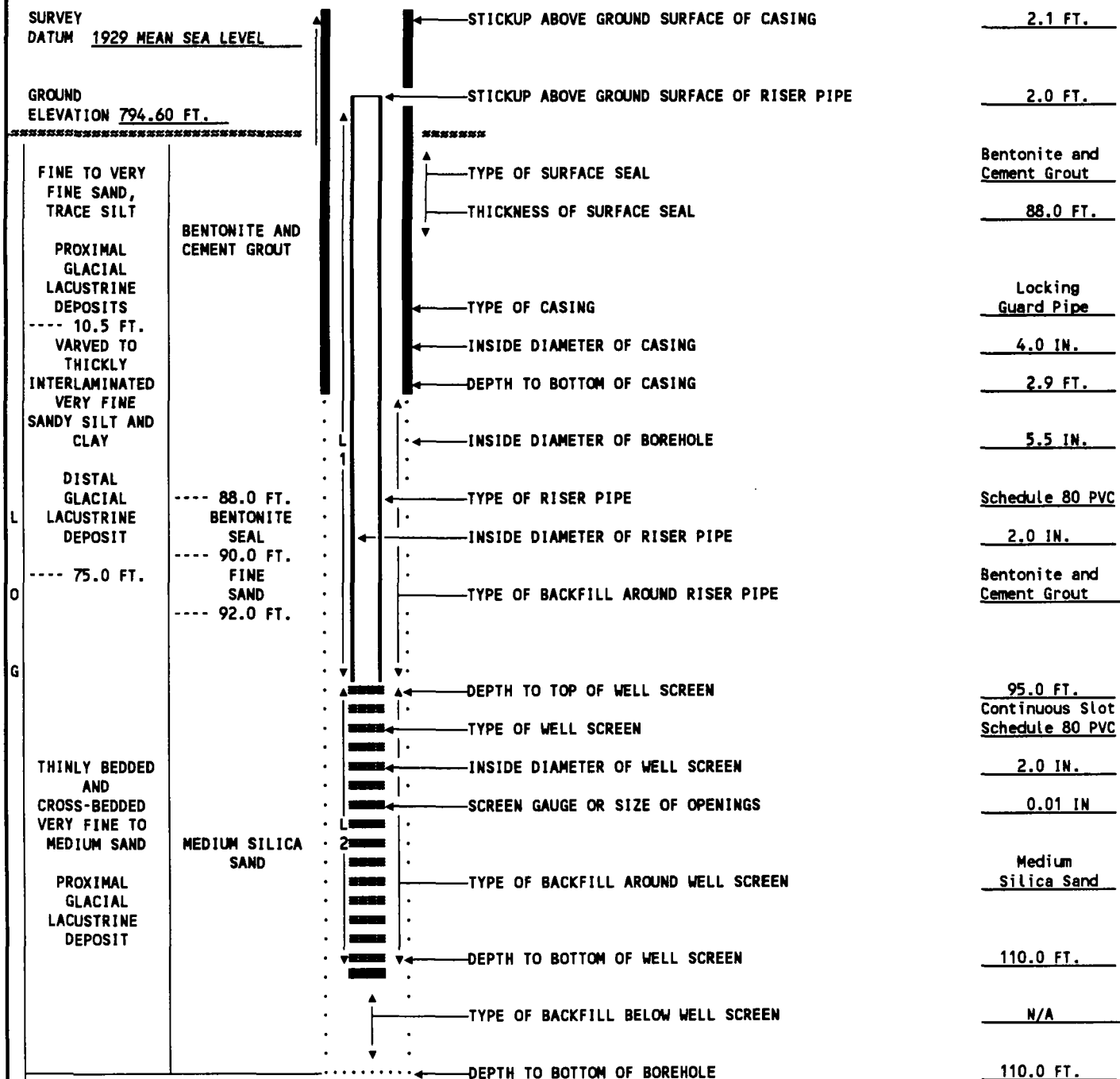
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B138A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(s): S LAMARCHE

BORING NO. B138A
LOCATION: SEE PLAN
TYPE OF WELL: BRIDGING
INSTALL. DATE: JUNE 30, 1992
ESE Rep. J. BANNON



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{97.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{112.0 \text{ FT.}}{\text{PAY LENGTH}}$$

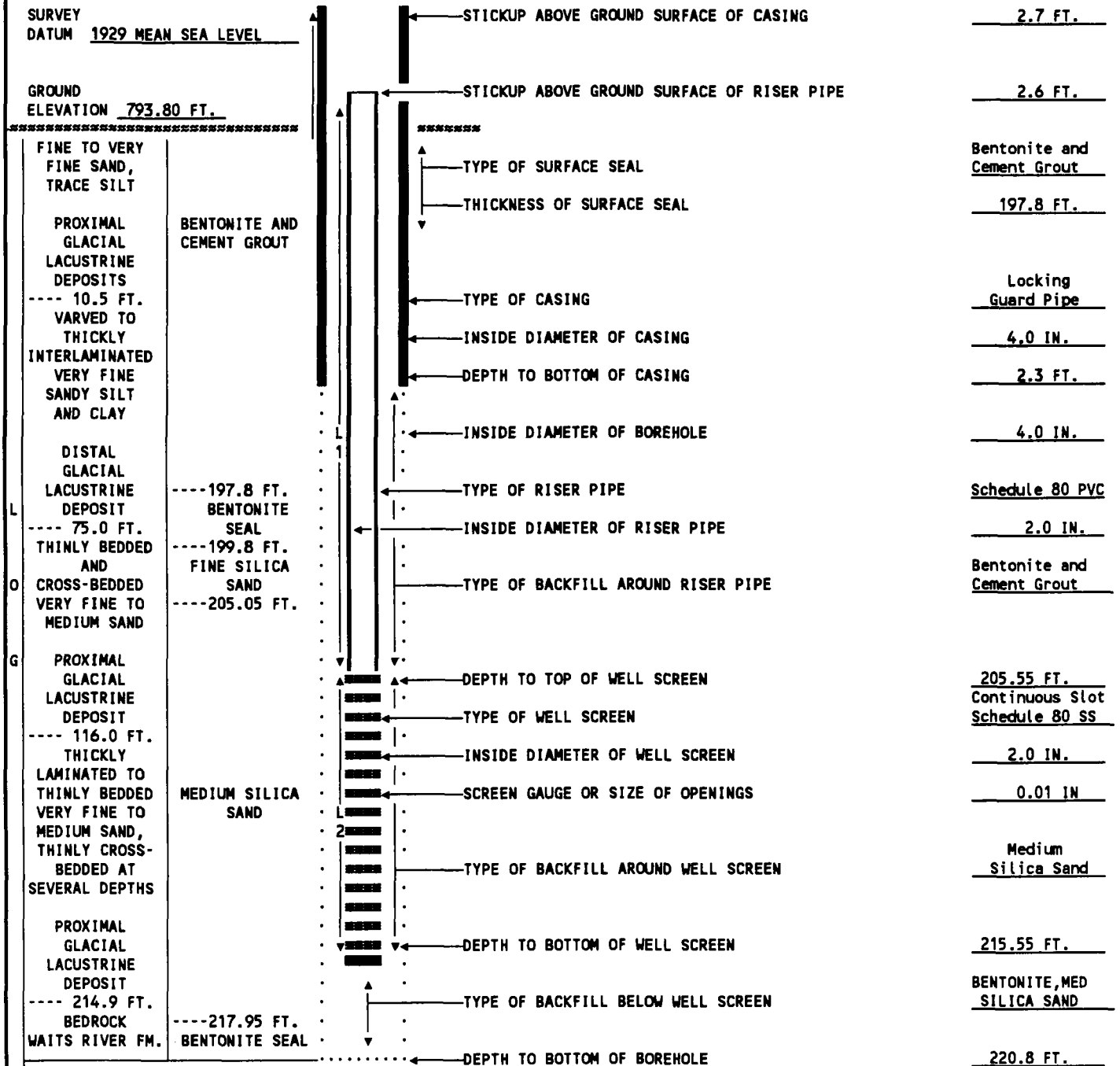
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B1388
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): C. STAMAS, T. BELSKY, A. CARON

BORING NO. B1388
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF ROCK
INSTALL. DATE: JULY 1, 1992
ESE Rep. P. DROBAT



$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{208.15 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{\text{FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B139A
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): S. LAMARCHE

BORING NO. B139A
LOCATION: SEE PLAN
TYPE OF WELL: BRIDGING
INSTALL. DATE: JUNE 16, 1992
ESE Rep. J. BANNON

SURVEY
DATUM 1929 MEAN SEA LEVEL

GROUND
ELEVATION 753.87 FT.

FINE TO MEDIUM
SAND, VARIABLE
SILT AND
COARSE SAND
CONTENT

PROXIMAL
GLACIAL
LACUSTRINE
DEPOSIT

BENTONITE AND
CEMENT GROUT

----23.5 FT.
BENTONITE
SEAL

----26.5 FT.
FINE SILICA
SAND

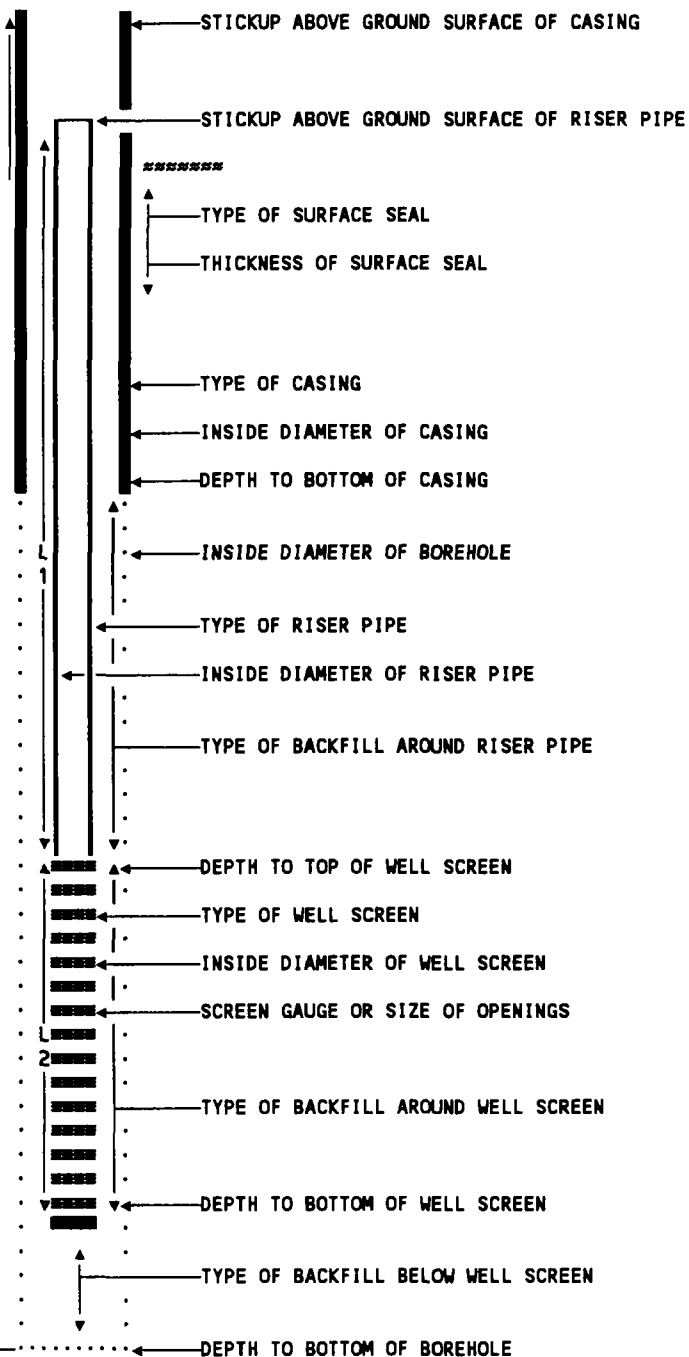
----28.5 FT.

---- 32.5 FT.

THINLY
INTERBEDDED TO
THINLY
INTERLAMINATED
SILT, SILTY
CLAY/CLAY

DISTAL
GLACIAL
LACUSTRINE
DEPOSIT

MEDIUM SILICA
SAND



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{10.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{44.0 \text{ FT.}}{\text{PAY LENGTH}}$$

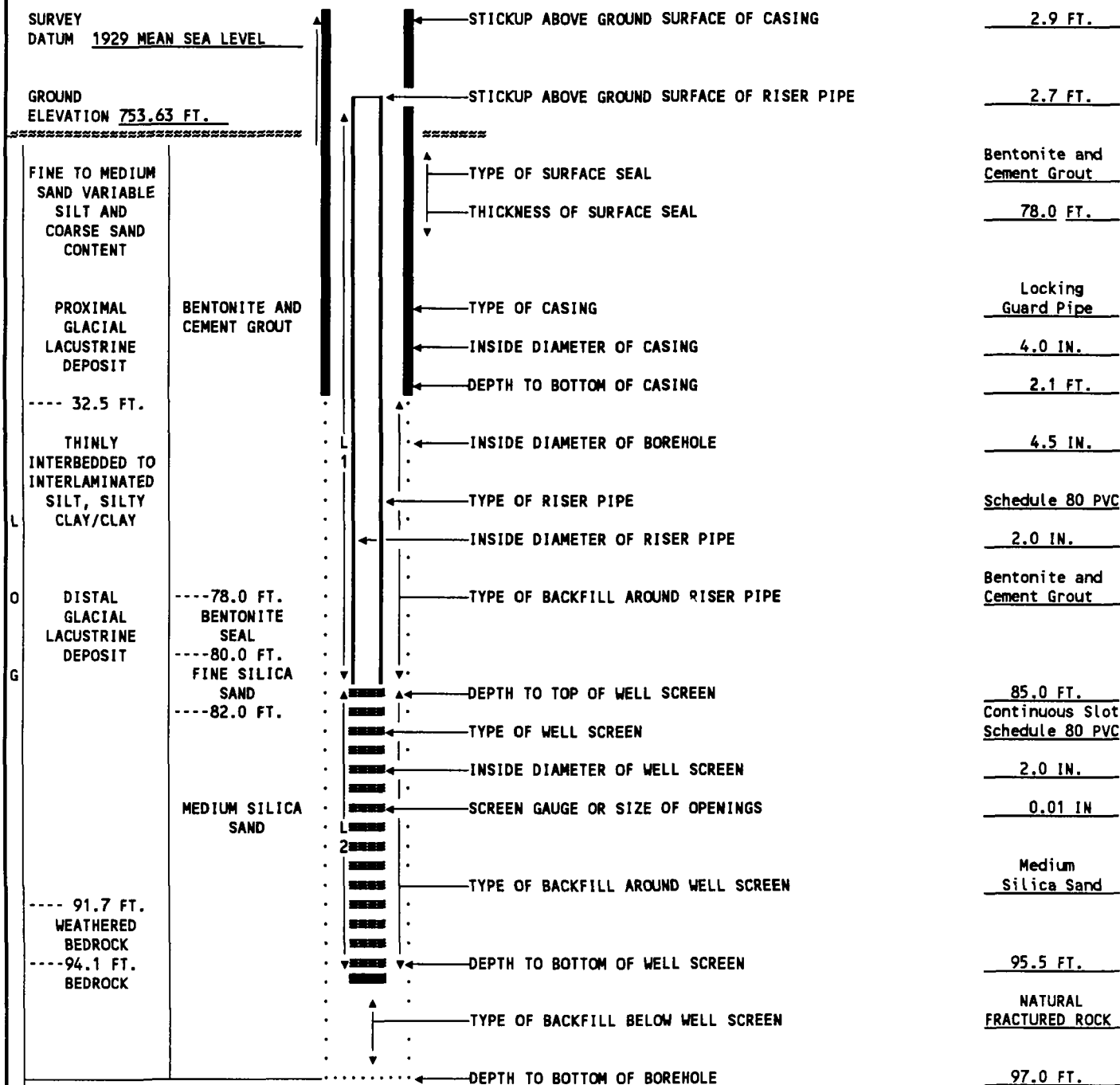
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B139B
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): S. LAMARCHE

BORING NO. B139B
LOCATION: SEE PLAN
TYPE OF WELL: TOP OF ROCK
INSTALL. DATE: JUNE 12, 1992
ESE Rep. J. BANNON



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{87.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{10.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{97.5 \text{ FT.}}{\text{PAY LENGTH}}$$

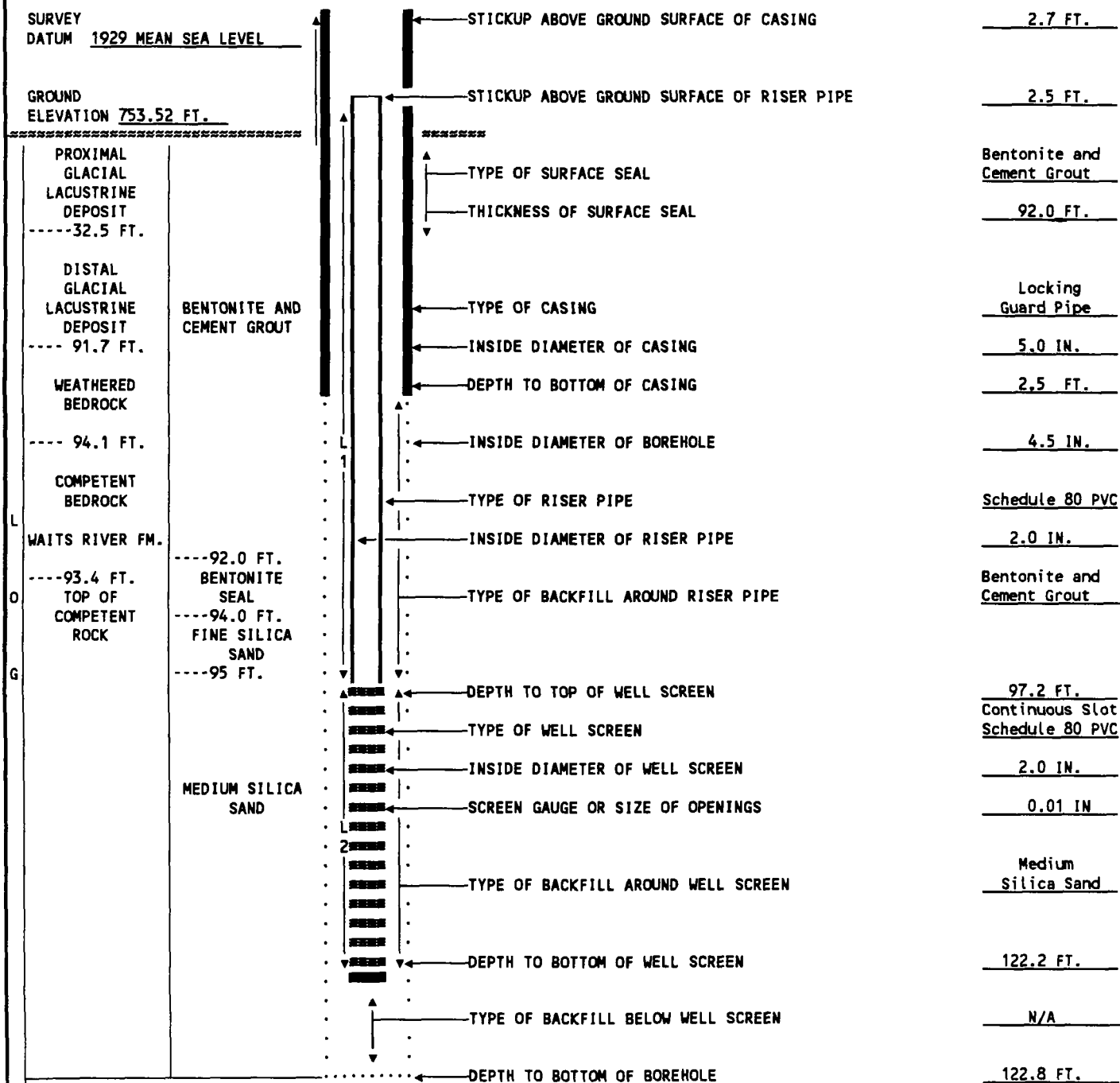
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B139C
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): S. LAMARCHE

BORING NO. B139C
LOCATION: SEE PLAN
TYPE OF WELL: BEDROCK
INSTALL. DATE: JUNE 10, 1992
ESE Rep. J. BANNON



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] + \left[\frac{99.9 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{25.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{124.9 \text{ FT.}}{\text{PAY LENGTH}}$$

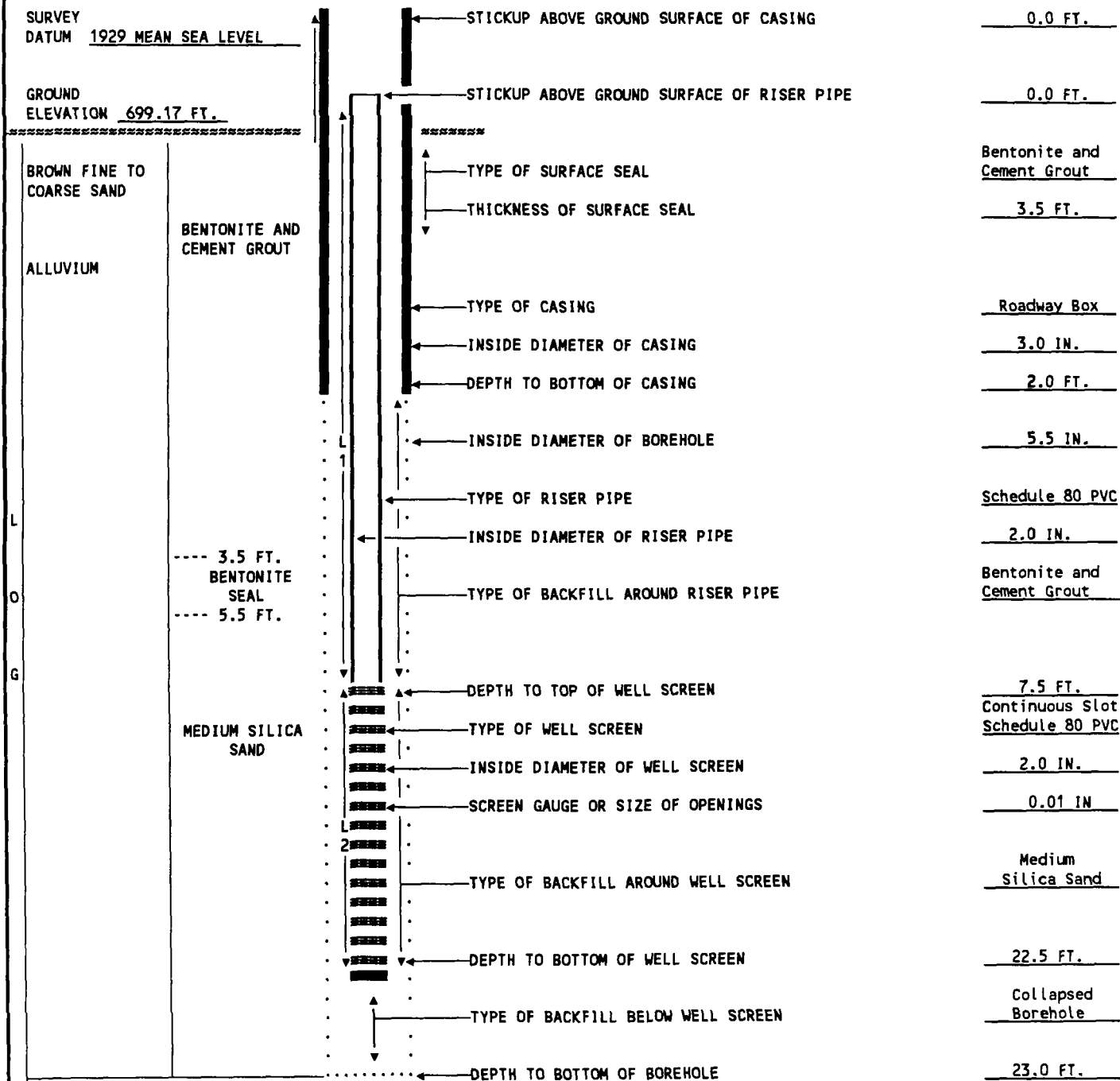
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
FIVE OVERLOOK DRIVE
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. B140
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: ENVIRONMENTAL DRILLING INC.
DRILLER(S): S LAMARCHE

BORING NO. B140
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: JUNE 25, 1992
ESE Rep. J. BANNON



$$\left[\frac{2.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{7.5 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{22.5 \text{ FT.}}{\text{PAY LENGTH}}$$

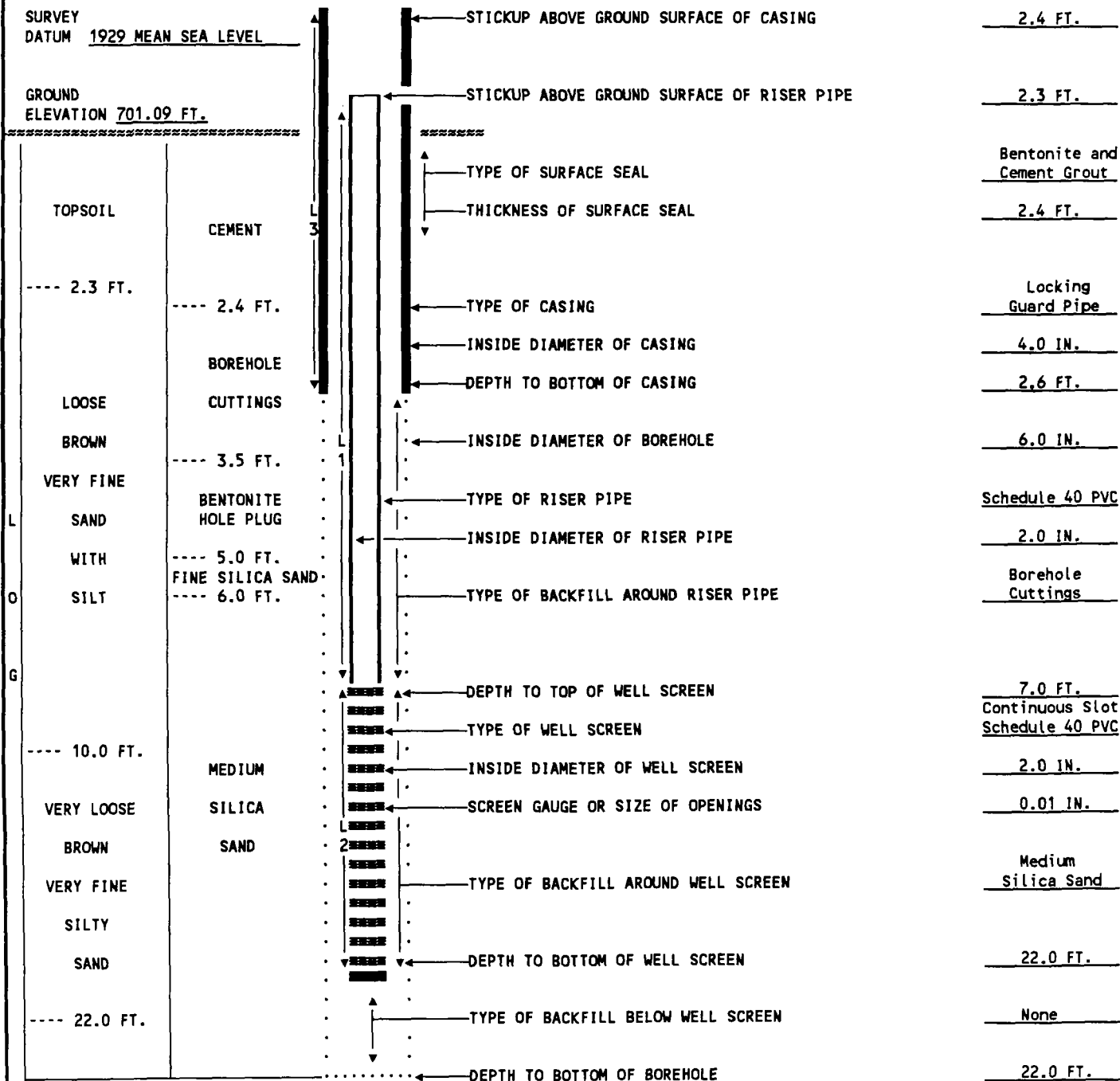
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 201-OW
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT
LOCATION: LYNDONVILLE, VERMONT
CLIENT: PRP GROUP
CONTRACTOR: CUSHING AND SONS, INC.
DRILLER(S): JACK FRANCIS, MIKE PHILBIN EDI

BORING NO. B 201
LOCATION: SEE PLAN
WELL TYPE: BRIDGING
INSTALL. DATE: MAY 31, 1991
ESE Rep. H.K. WILSON



$$\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} + \frac{9.3 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} = \frac{24.3 \text{ FT.}}{\text{PAY LENGTH}}$$

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
ONE OVERLOOK DRIVE UNIT 16
AMHERST, NH 03031

GROUNDWATER
MONITORING WELL REPORT

WELL NO. G 202
FILE NO. 4905024

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

CONTRACTOR: CUSHING AND SONS, INC.

DRILLER(S): JACK FRANCIS, MIKE PHILBIN EDI

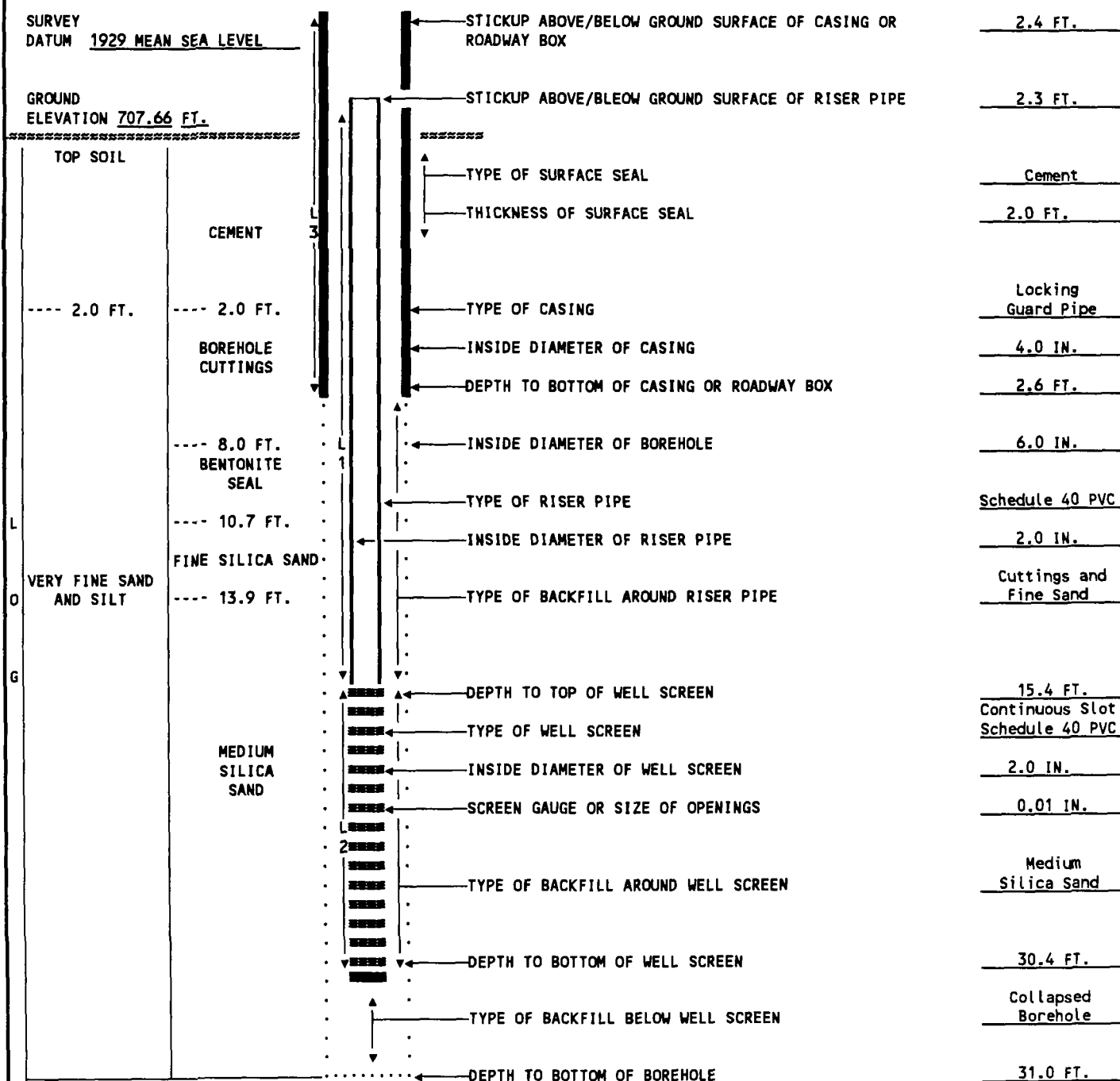
BORING NO. B 201

LOCATION: SEE PLAN

WELL TYPE: BRIDGING

INSTALL. DATE: MAY 30, 1991

ESE Rep. H.K. WILSON



(FIGURE NOT TO SCALE)

$$\left[\frac{5.0 \text{ FT.}}{\text{LENGTH OF CASING (L3)}} \right] \left[\frac{10.0 \text{ FT.}}{\text{LENGTH OF RISER PIPE (L1)}} + \frac{15.0 \text{ FT.}}{\text{LENGTH OF SCREEN (L2)}} \right] = \frac{25.0 \text{ FT.}}{\text{PAY LENGTH}}$$



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BEDROCK WELL/PIEZOMETER INSTALLATION REPORT

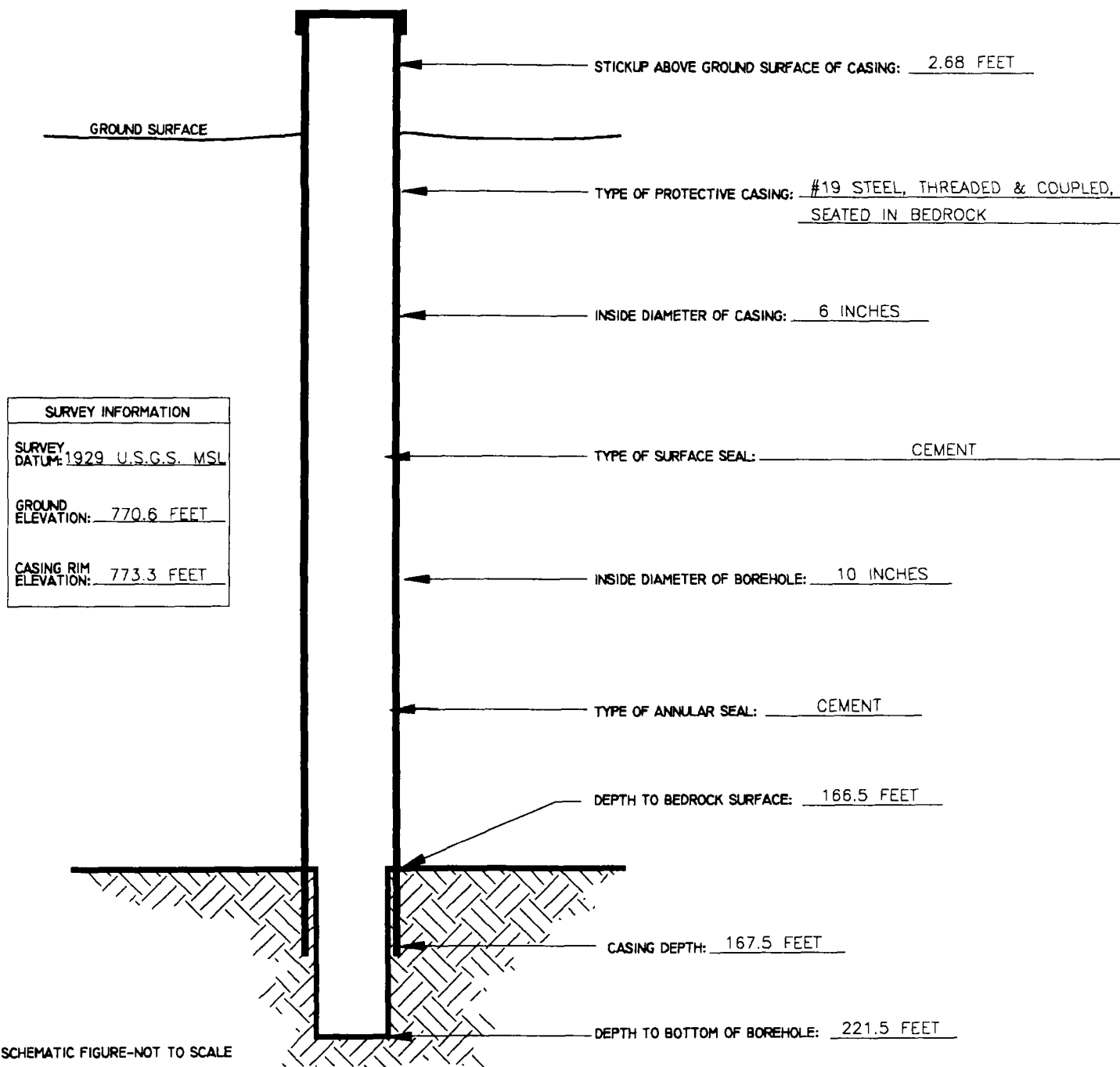
PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 113C
COMPLETION DATE: 07-19-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: D. DREW

ESE FIELD INSPECTOR: P. DROBAT
PADLOCK NUMBER: MASTER A188



NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.

CASING SEATED IN BEDROCK ON 07-16-93.

BEDROCK DRILLED ON 07-19-93.



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BEDROCK WELL/PIEZOMETER INSTALLATION REPORT

PROJECT NAME: PARKER LANDFILL

ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD

LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 125B

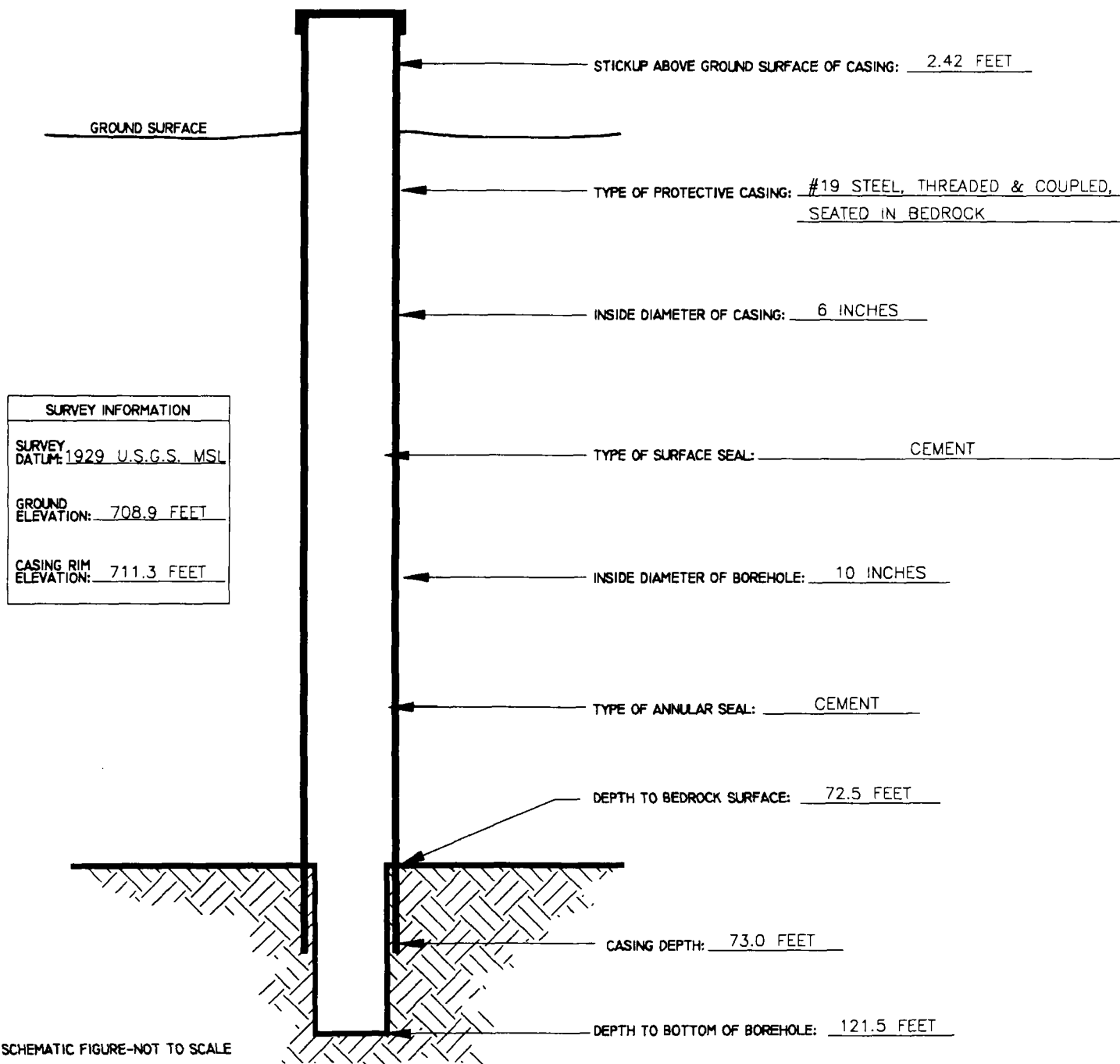
COMPLETION DATE: 07-22-93

CONTRACTOR: L. G. CUSHING & SONS, INC.

DRILLER: D. DREW

ESE FIELD INSPECTOR: P. DROBAT

PADLOCK NUMBER: MASTER A188



NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.

CASING SEATED IN BEDROCK ON 07-14-93.

BEDROCK DRILLED ON 07-22-93.



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BEDROCK WELL/PIEZOMETER INSTALLATION REPORT

PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

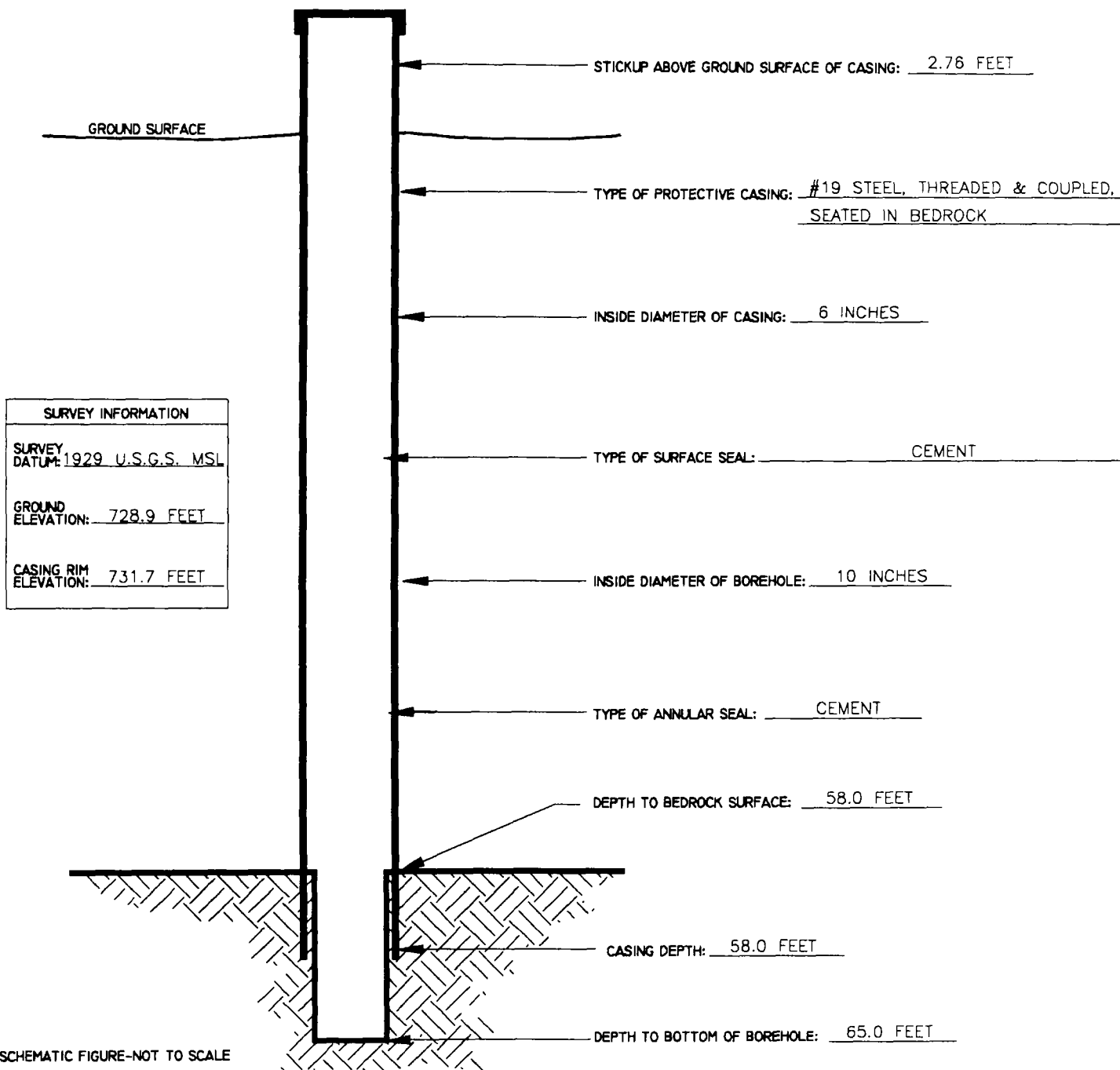
SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 132B

COMPLETION DATE: 07-22-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: D. DREW

ESE FIELD INSPECTOR: J. BANNON
PADLOCK NUMBER: MASTER A188



NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.

CASING SEATED IN BEDROCK ON 07-15-93.

BEDROCK DRILLED ON 07-22-93.



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A CILCORP Co.

BEDROCK WELL/PIEZOMETER INSTALLATION REPORT

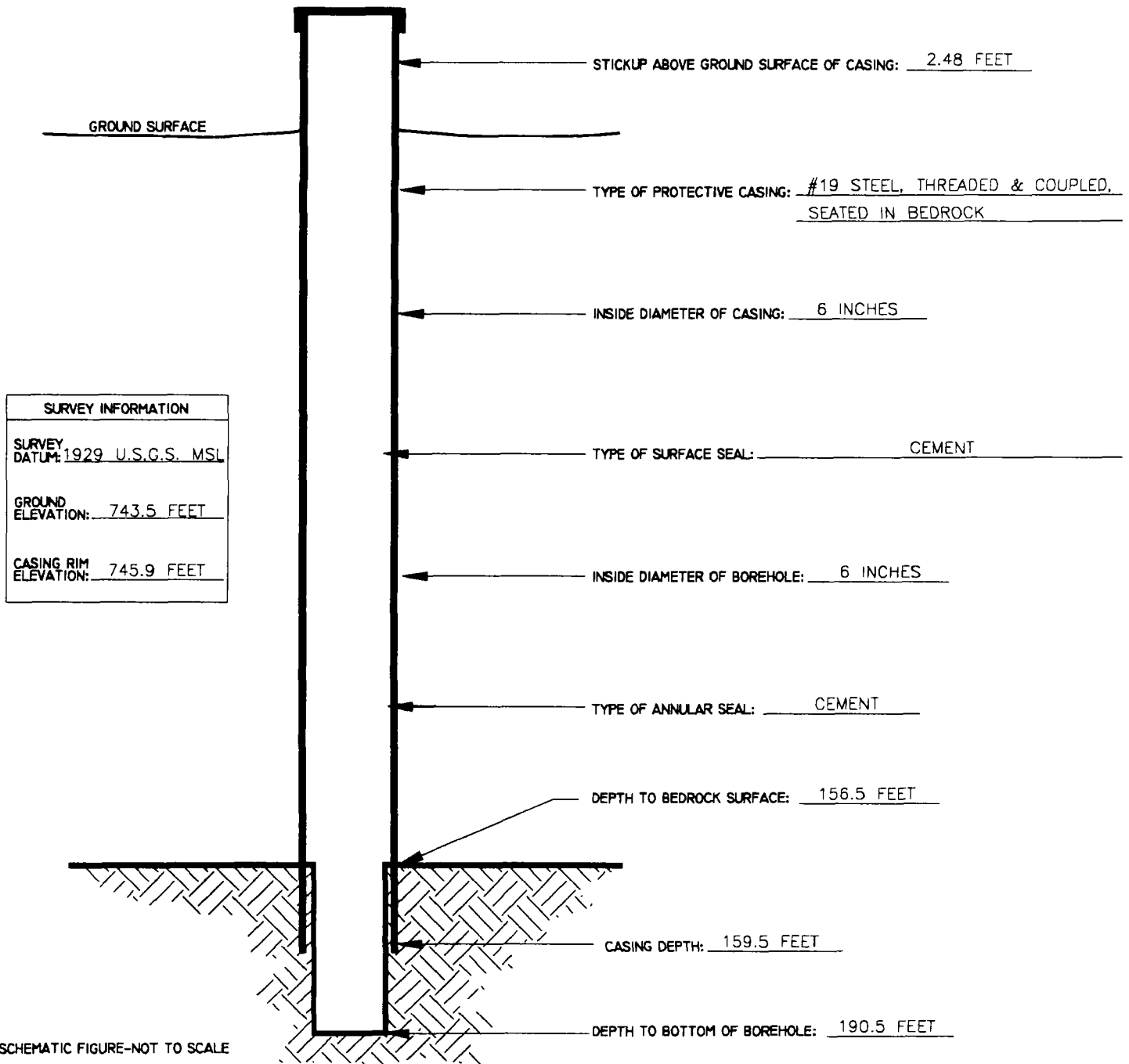
PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 135C
COMPLETION DATE: 07-15-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: D. DREW

ESE FIELD INSPECTOR: P. DROBAT
PADLOCK NUMBER: MASTER A188



NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.

CASING SEATED IN BEDROCK ON 07-13-93.

BEDROCK DRILLED ON 07-15-93.



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GROUNDWATER MONITORING WELL REPORT

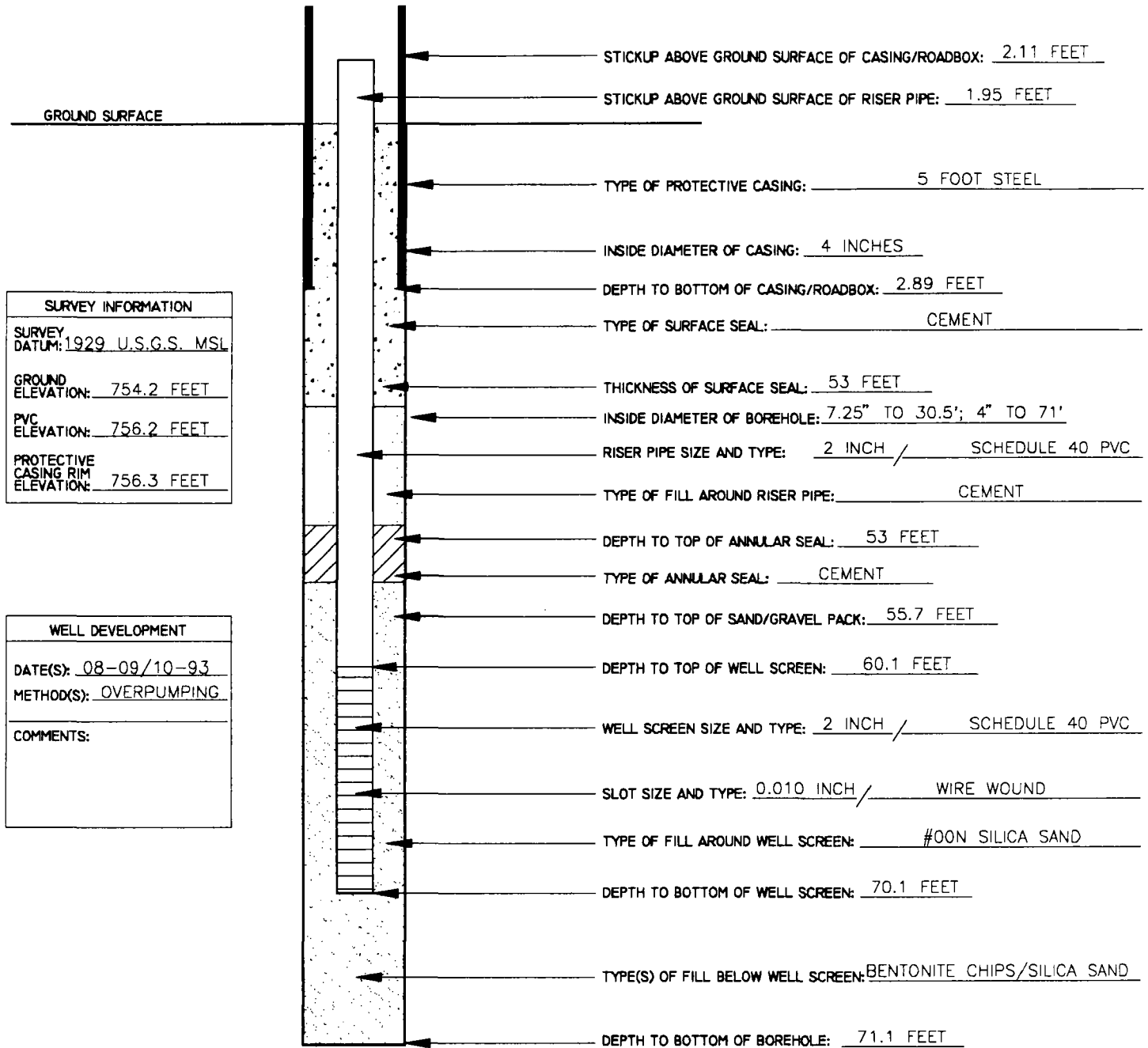
PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

WELL NUMBER: 1391
COMPLETION DATE: 07-28-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: D. DREW

ESE FIELD INSPECTOR: P. DROBAT
PADLOCK NUMBER: MASTER A188



NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.

SHELBY TUBE SAMPLES COLLECTED AT THE FOLLOWING DEPTH INTERVALS:

- 35-37 FEET
- 50-52 FEET
- 60-62.5 FEET
- 62.5-65 FEET
- 65-67.5 FEET
- 71-73.5 FEET



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BEDROCK WELL/PIEZOMETER INSTALLATION REPORT

PROJECT NAME: PARKER LANDFILL

ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD

LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 141

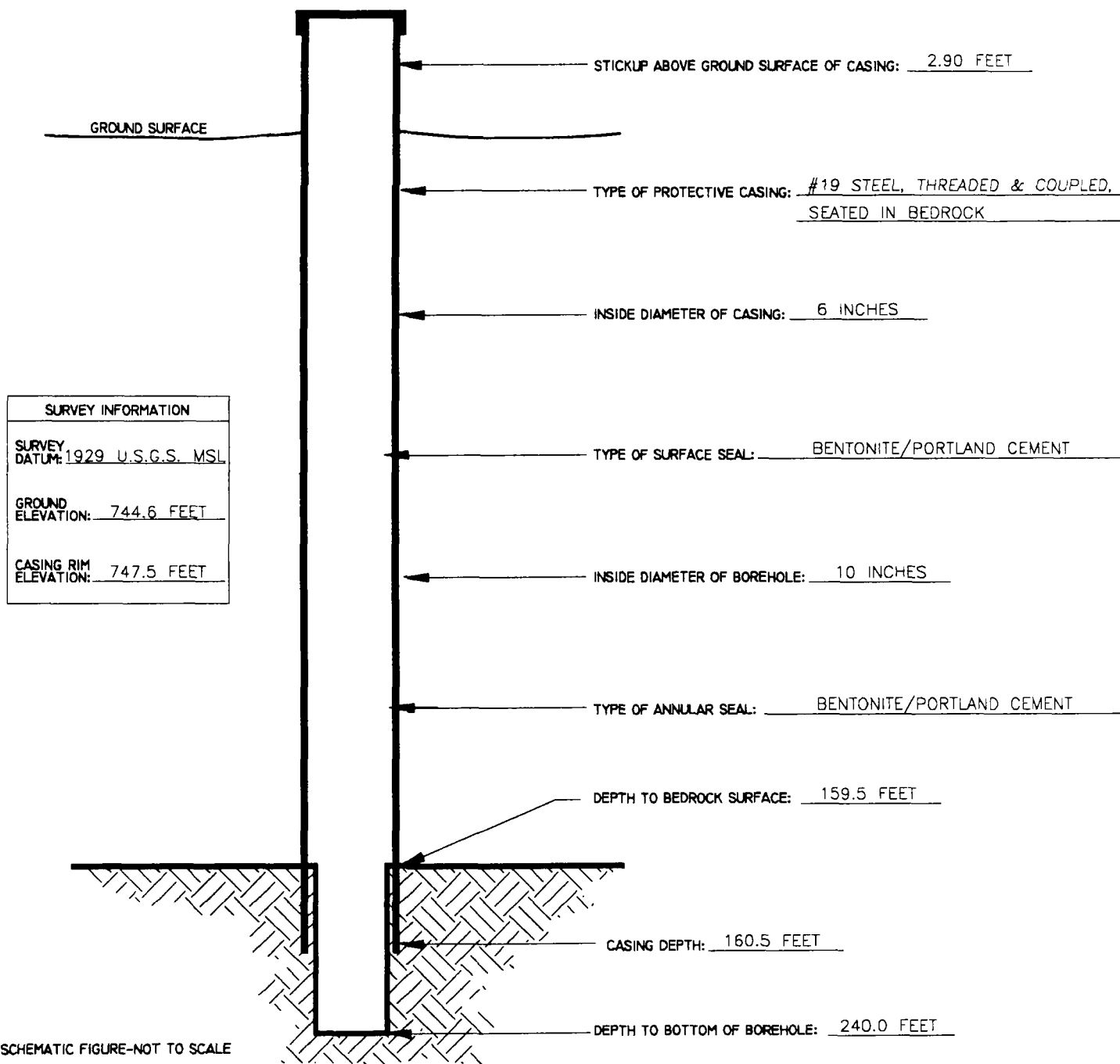
COMPLETION DATE: 07-30-93

CONTRACTOR: L. G. CUSHING & SONS, INC.

DRILLER: J. OHINA, J. GOULD

ESE FIELD INSPECTOR: J. BANNON

PADLOCK NUMBER: MASTER A188



NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.

CASING SEATED IN BEDROCK ON 07-23-93.

BEDROCK DRILLED ON 07-27-93 AND 07-30-93.



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OVERBURDEN PUMPING WELL INSTALLATION REPORT

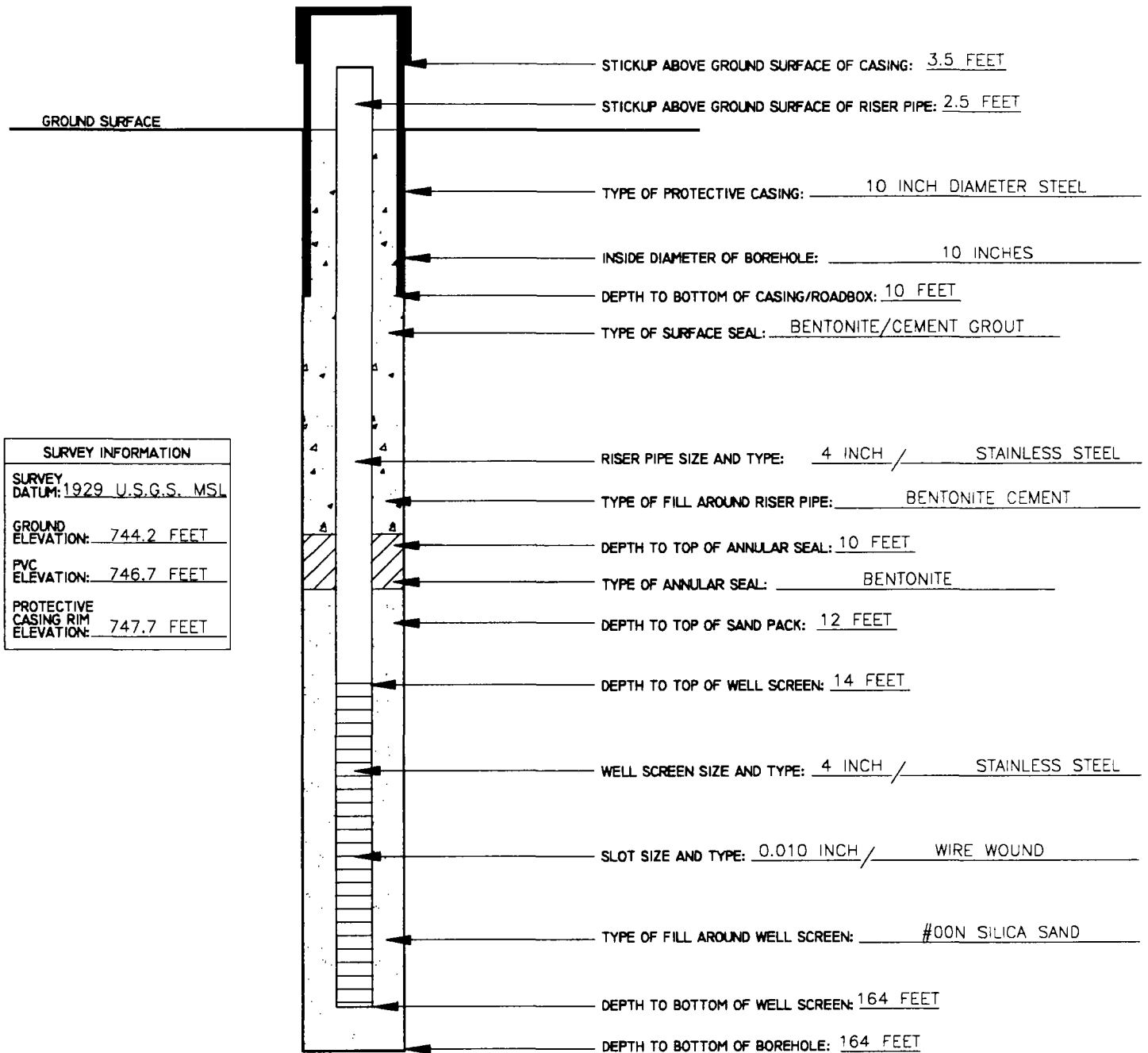
PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

WELL NUMBER: 142
COMPLETION DATE: 07-22-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: J. OHINA

ESE FIELD INSPECTOR: J. BANNON
PADLOCK NUMBER: MASTER A188



SCHEMATIC FIGURE-NOT TO SCALE

NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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BEDROCK WELL/PIEZOMETER INSTALLATION REPORT

PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 143

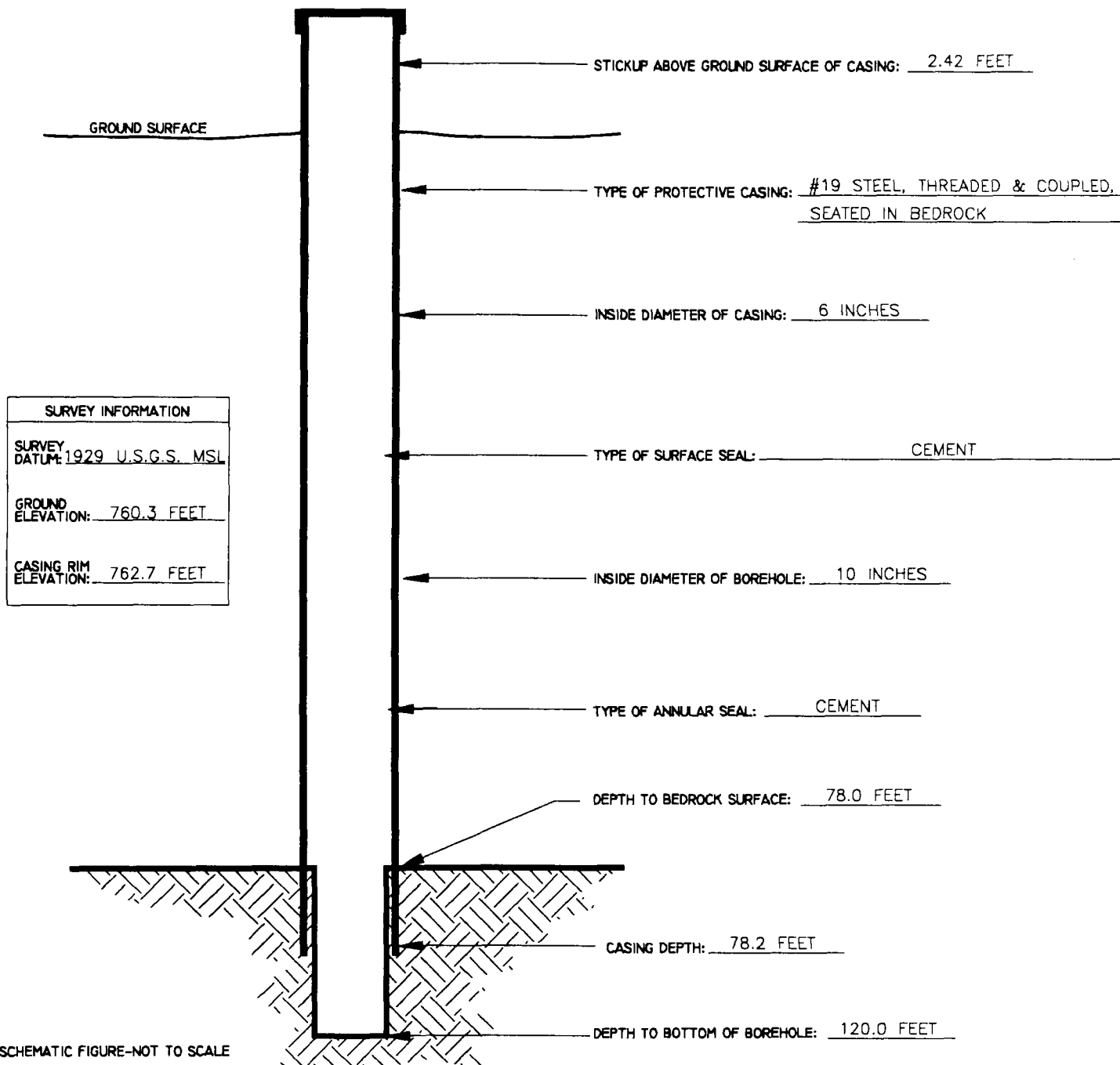
COMPLETION DATE: 07-28-93

CONTRACTOR: L. G. CUSHING & SONS, INC.

DRILLER: D. DREW

ESE FIELD INSPECTOR: J. BANNON

PADLOCK NUMBER: MASTER A188



NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.

CASING SEATED IN BEDROCK ON 07-19-93.

BEDROCK DRILLED ON 07-28-93.



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OVERBURDEN PIEZOMETER INSTALLATION REPORT

PROJECT NAME: PARKER LANDFILL

SITE LOCATION: LILY POND ROAD

ESE PROJECT NUMBER: 490 5024

LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 203A-1

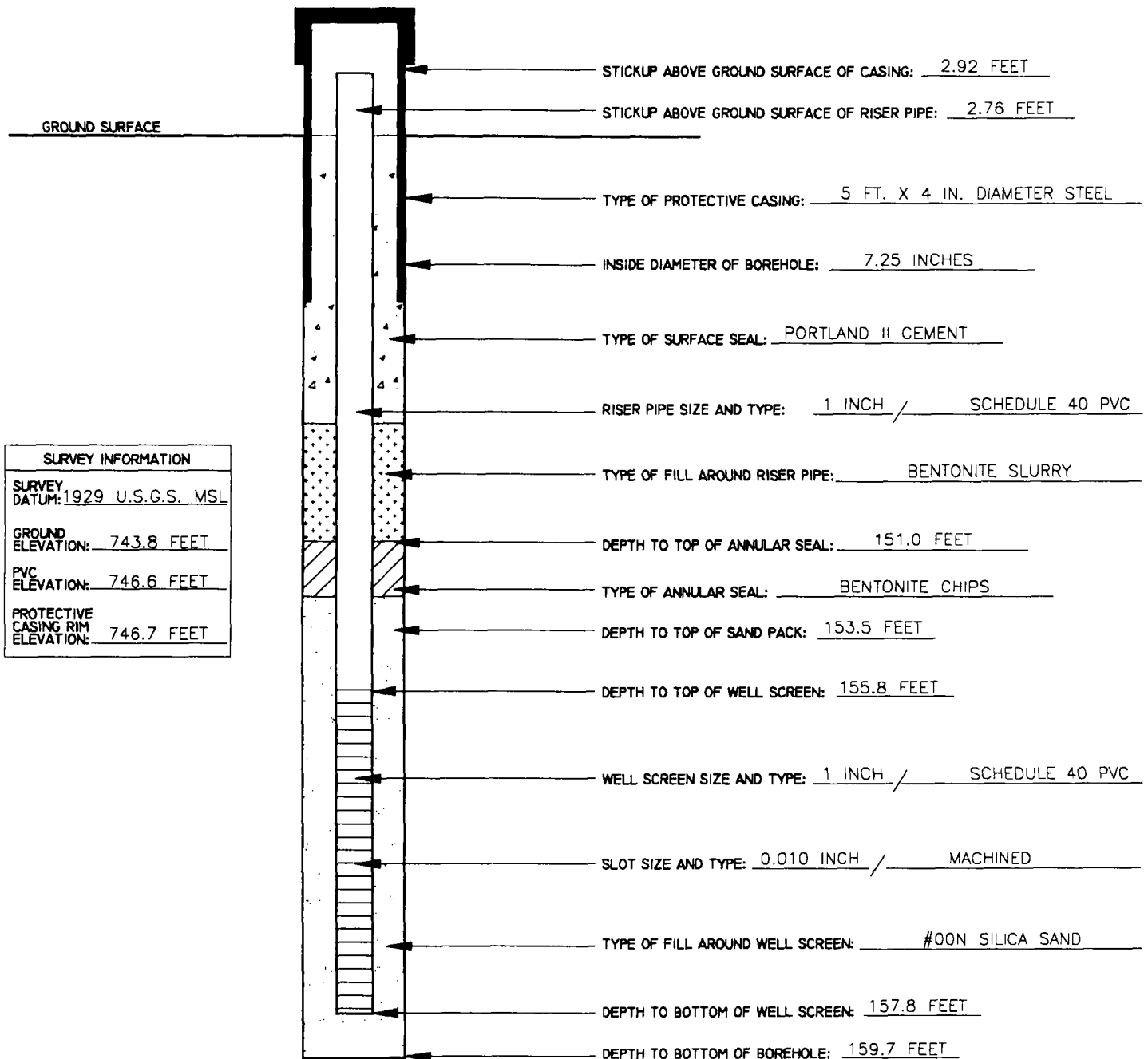
CONTRACTOR: L. G. CUSHING & SONS, INC.

ESE FIELD INSPECTOR: P. DROBAT

COMPLETION DATE: 07-30-93

DRILLER: D. DREW, J. GOULD

PADLOCK NUMBER: MASTER A188



SURVEY INFORMATION	
SURVEY DATUM:	<u>1929 U.S.G.S. MSL</u>
GROUND ELEVATION:	<u>743.8 FEET</u>
PVC ELEVATION:	<u>746.6 FEET</u>
PROTECTIVE CASING RIM ELEVATION:	<u>746.7 FEET</u>

SCHEMATIC FIGURE-NOT TO SCALE

NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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OVERBURDEN PIEZOMETER INSTALLATION REPORT

PROJECT NAME: PARKER LANDFILL

ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD

LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 203A-2

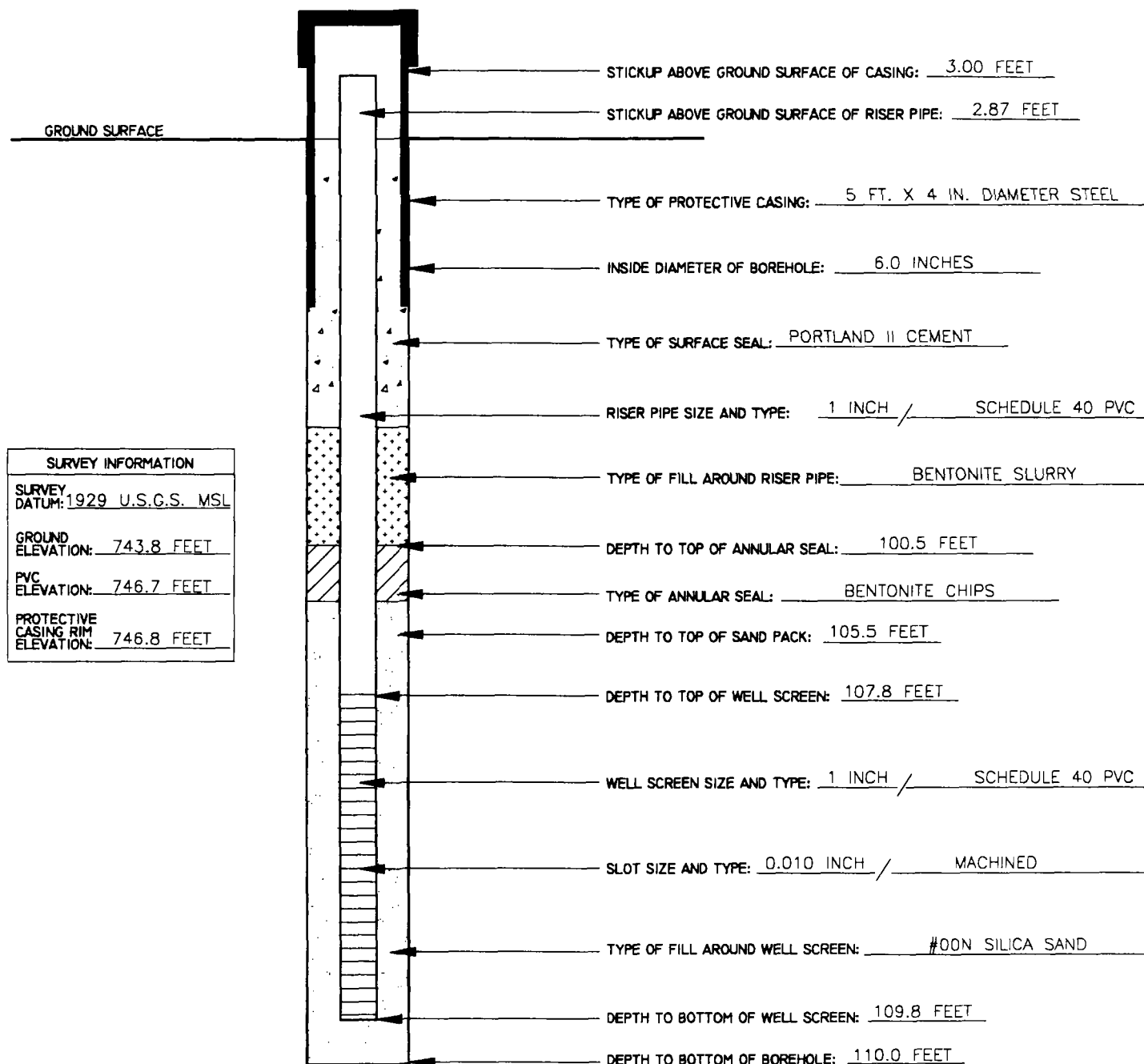
COMPLETION DATE: 08-03-93

CONTRACTOR: L. G. CUSHING & SONS, INC.

DRILLER: D. DREW, J. GOULD

ESE FIELD INSPECTOR: P. DROBAT

PADLOCK NUMBER: MASTER A188



SCHEMATIC FIGURE-NOT TO SCALE

NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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OVERBURDEN PIEZOMETER INSTALLATION REPORT

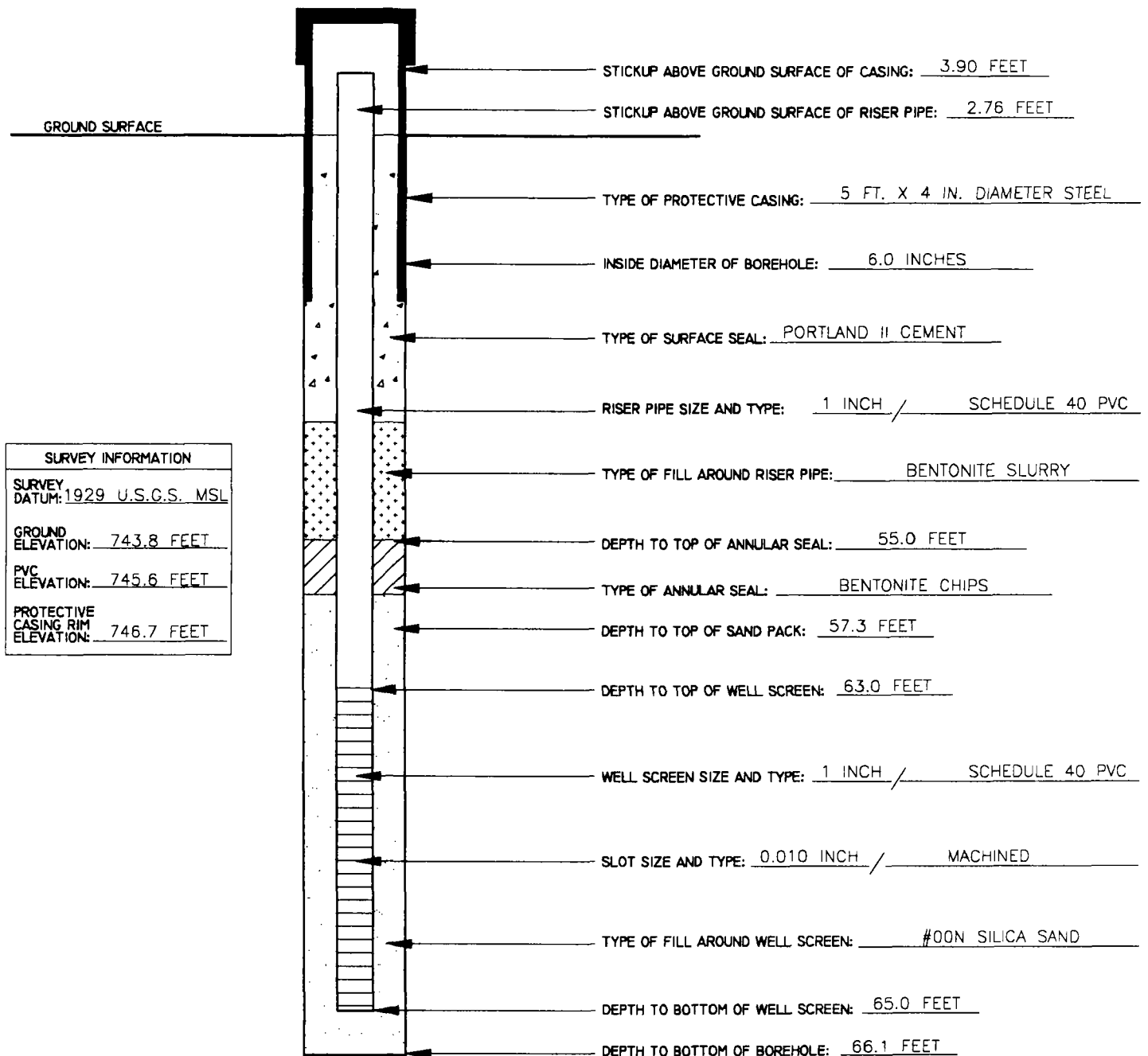
PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 203A-3
COMPLETION DATE: 08-04-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: D. DREW, J. GOULD

ESE FIELD INSPECTOR: P. DROBAT
PADLOCK NUMBER: MASTER A188



SCHEMATIC FIGURE-NOT TO SCALE

NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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OVERBURDEN PIEZOMETER INSTALLATION REPORT

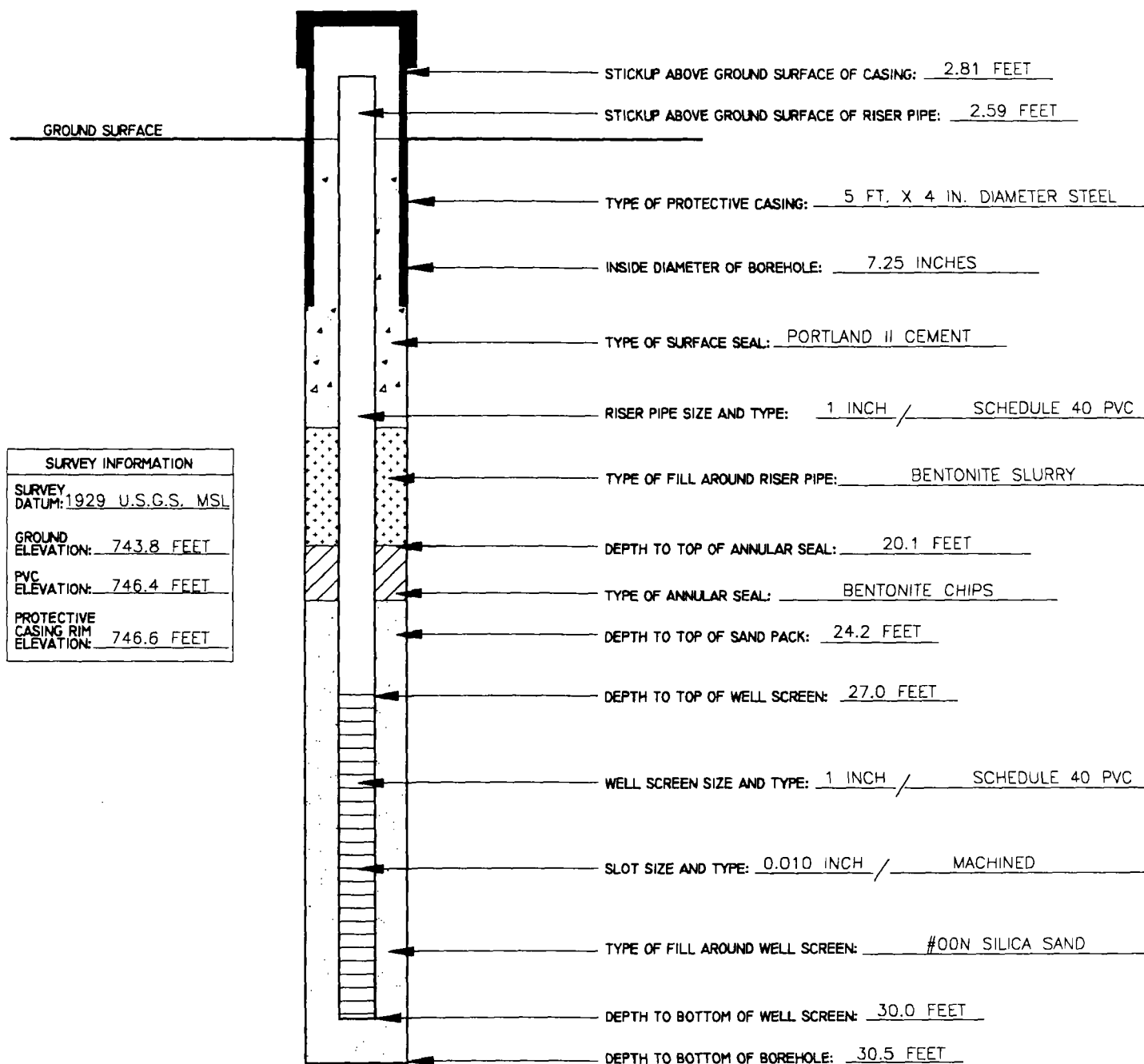
PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 203A-4
COMPLETION DATE: 08-04-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: D. DREW

ESE FIELD INSPECTOR: P. DROBAT
PADLOCK NUMBER: MASTER A188



SCHEMATIC FIGURE-NOT TO SCALE

NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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BEDROCK WELL/PIEZOMETER INSTALLATION REPORT

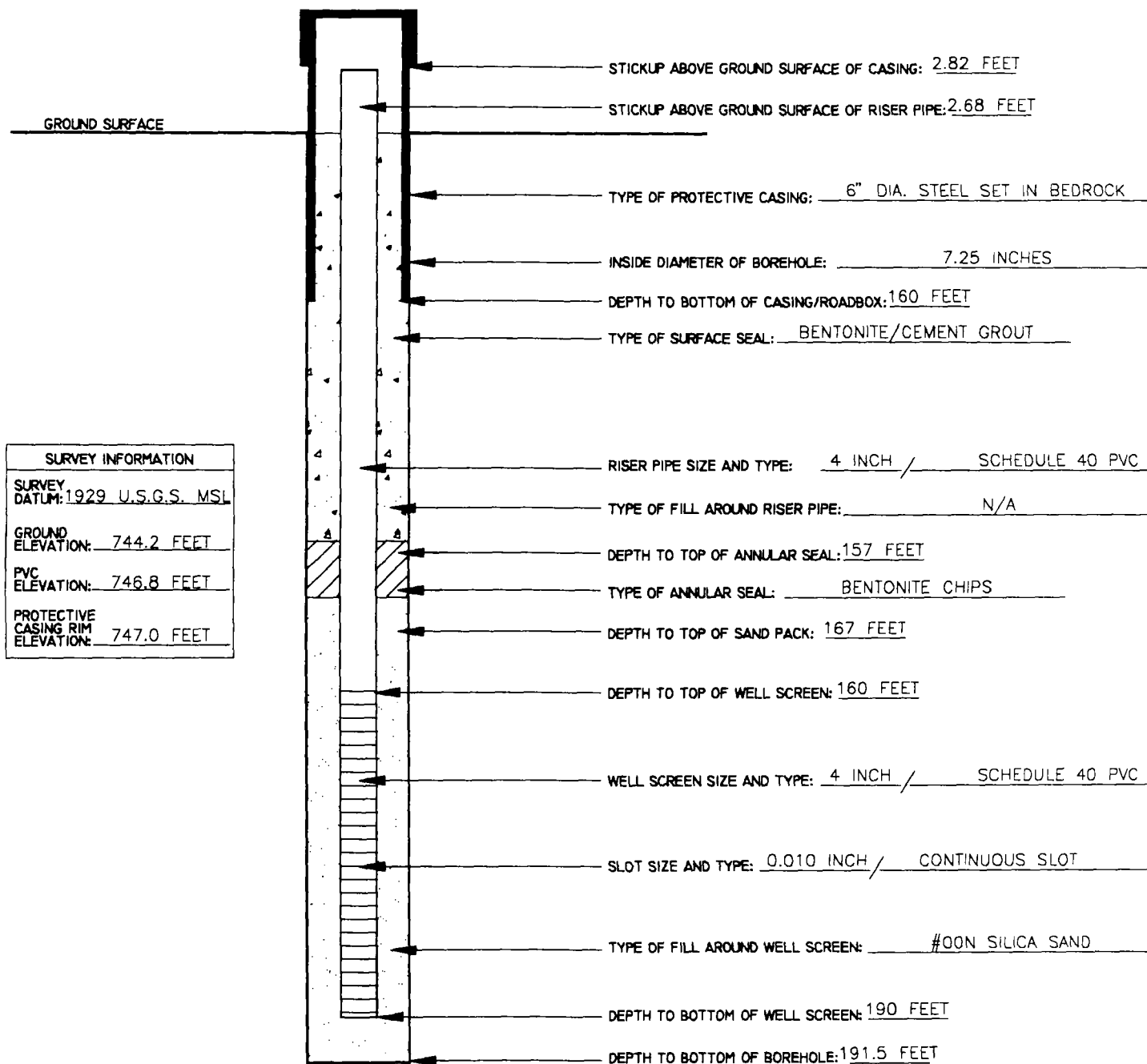
PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

WELL NUMBER: 203B
COMPLETION DATE: 08-24-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: J. GOULD

ESE FIELD INSPECTOR: P. DROBAT
PADLOCK NUMBER: MASTER A188



SCHEMATIC FIGURE-NOT TO SCALE

NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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OVERBURDEN PIEZOMETER INSTALLATION REPORT

PROJECT NAME: PARKER LANDFILL

ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 204A-1

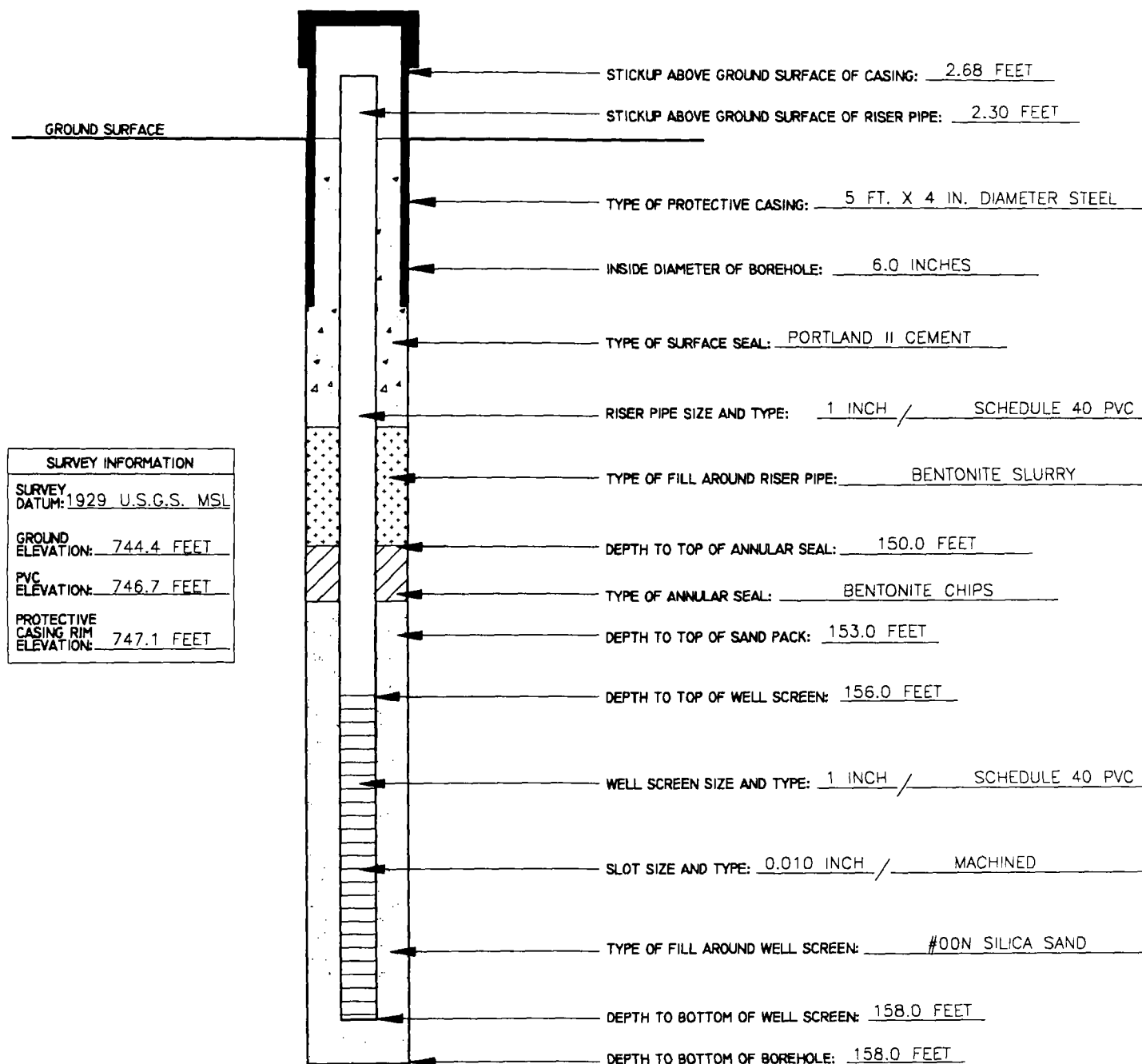
COMPLETION DATE: 08-02-93

CONTRACTOR: L. G. CUSHING & SONS, INC.

DRILLER: D. DREW

ESE FIELD INSPECTOR: J. BANNON

PADLOCK NUMBER: MASTER A188



SCHEMATIC FIGURE-NOT TO SCALE

NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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OVERBURDEN PIEZOMETER INSTALLATION REPORT

PROJECT NAME: PARKER LANDFILL

ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD

LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 204A-2

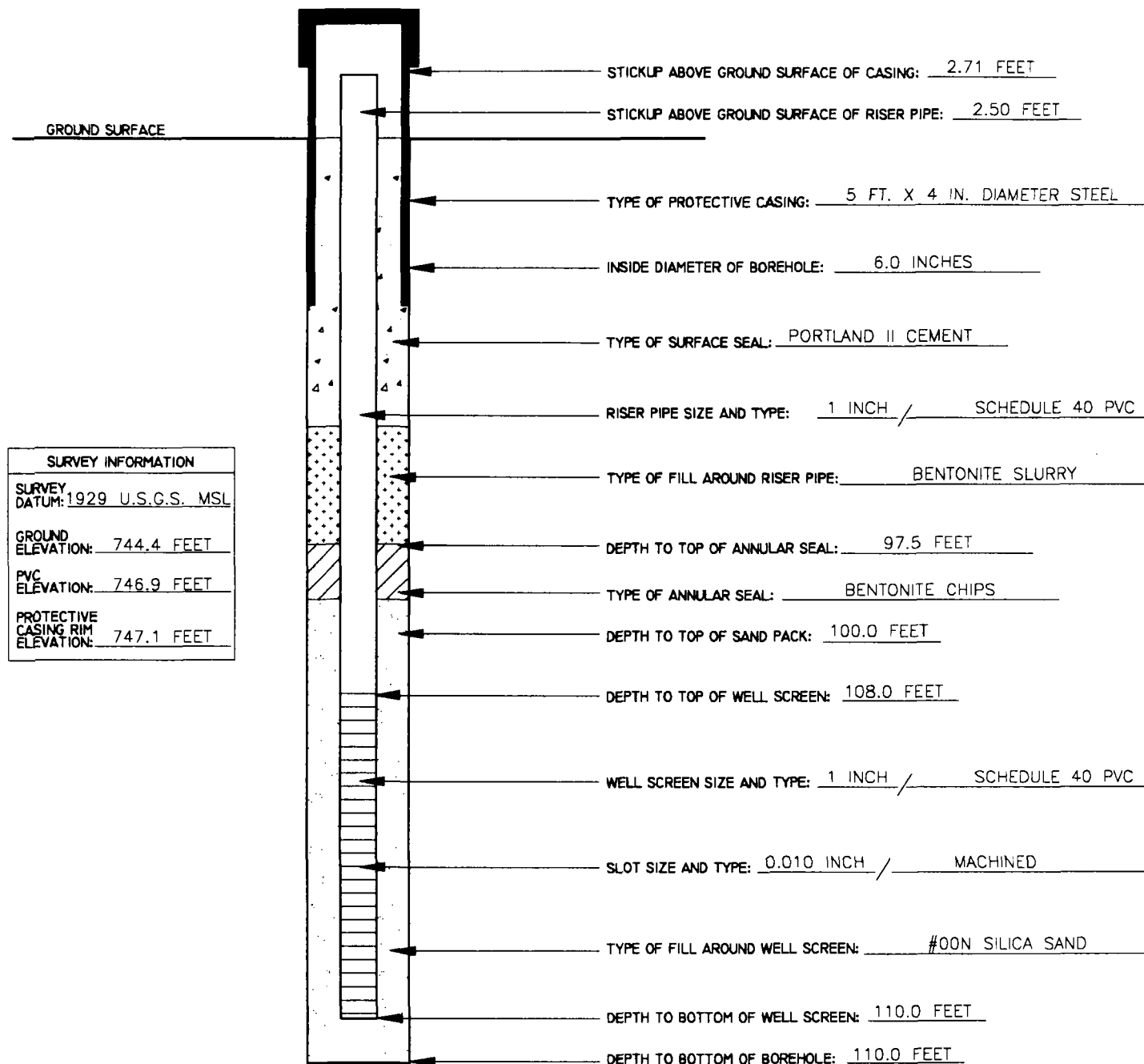
COMPLETION DATE: 08-05-93

CONTRACTOR: L. G. CUSHING & SONS, INC.

DRILLER: J. GOULD

ESE FIELD INSPECTOR: P. DROBAT

PADLOCK NUMBER: MASTER A188



SCHEMATIC FIGURE-NOT TO SCALE

NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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OVERBURDEN PIEZOMETER INSTALLATION REPORT

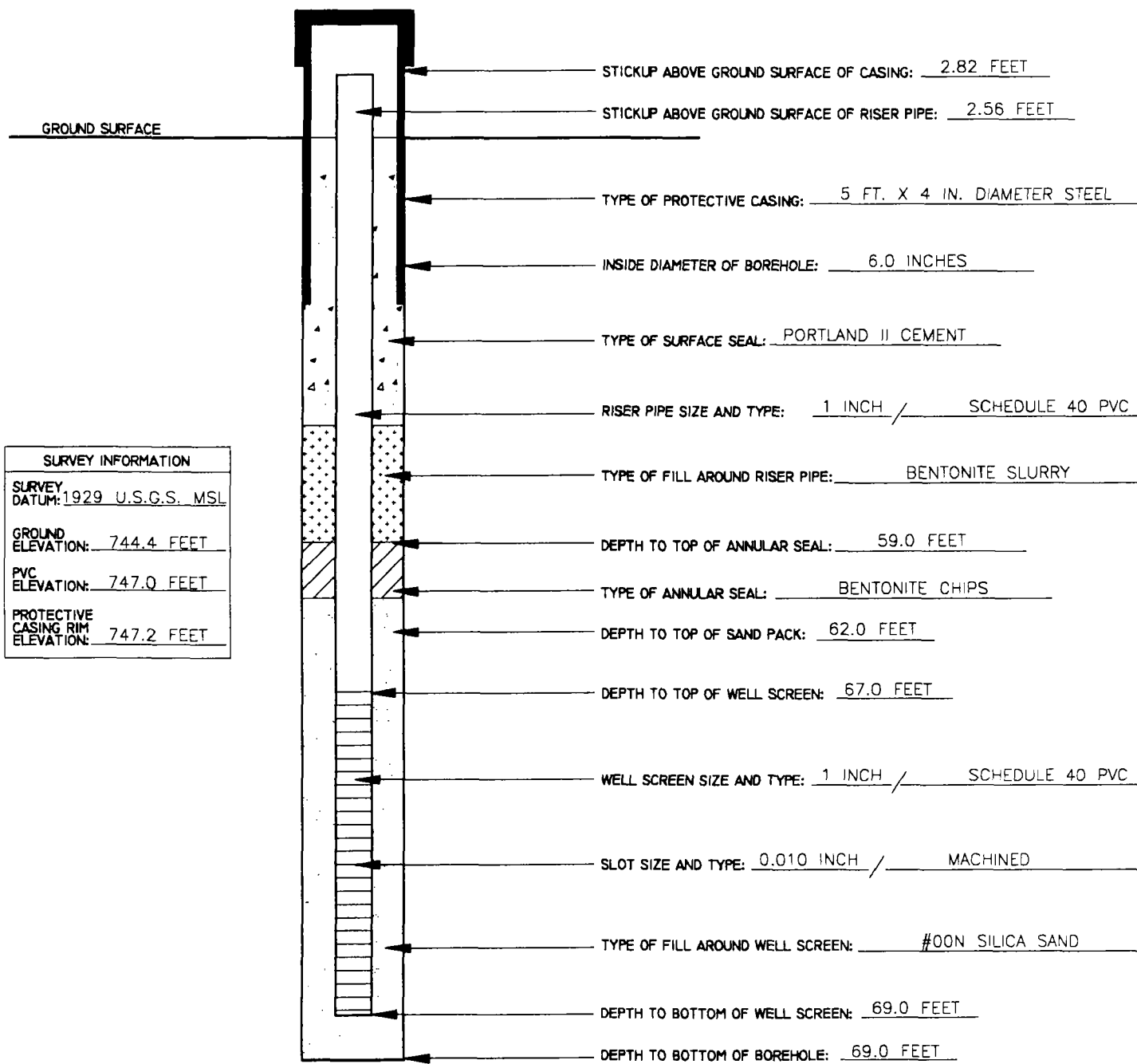
PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 204A-3
COMPLETION DATE: 08-06-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: J. GOULD

ESE FIELD INSPECTOR: P. DROBAT
PADLOCK NUMBER: MASTER A188



NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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OVERBURDEN PIEZOMETER INSTALLATION REPORT

PROJECT NAME: PARKER LANDFILL

ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD

LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 204A-4

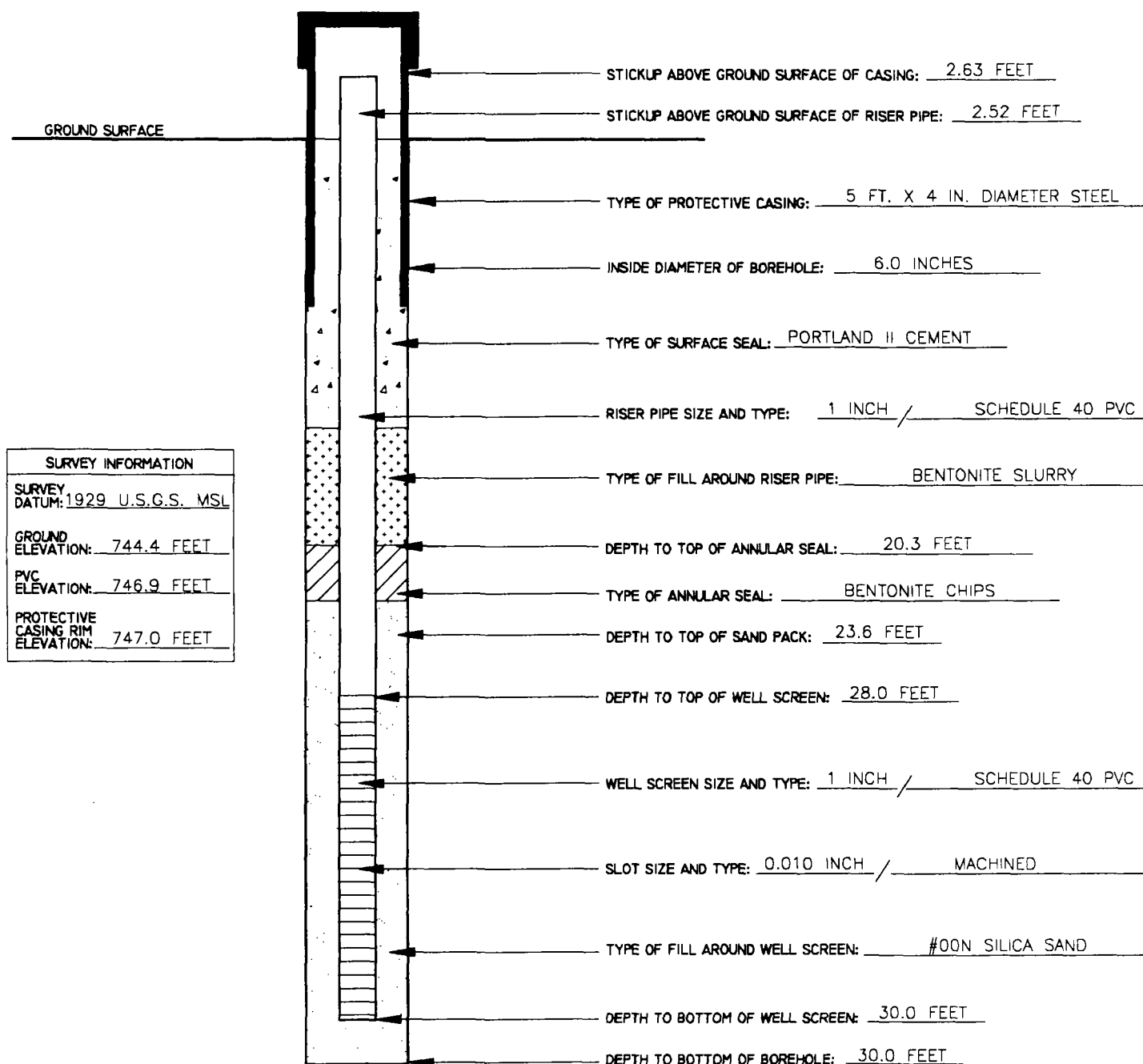
COMPLETION DATE: 08-06-93

CONTRACTOR: L. G. CUSHING & SONS, INC.

DRILLER: J. GOULD

ESE FIELD INSPECTOR: J. BANNON

PADLOCK NUMBER: MASTER A188



SCHEMATIC FIGURE-NOT TO SCALE

NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.



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BEDROCK WELL/PIEZOMETER INSTALLATION REPORT

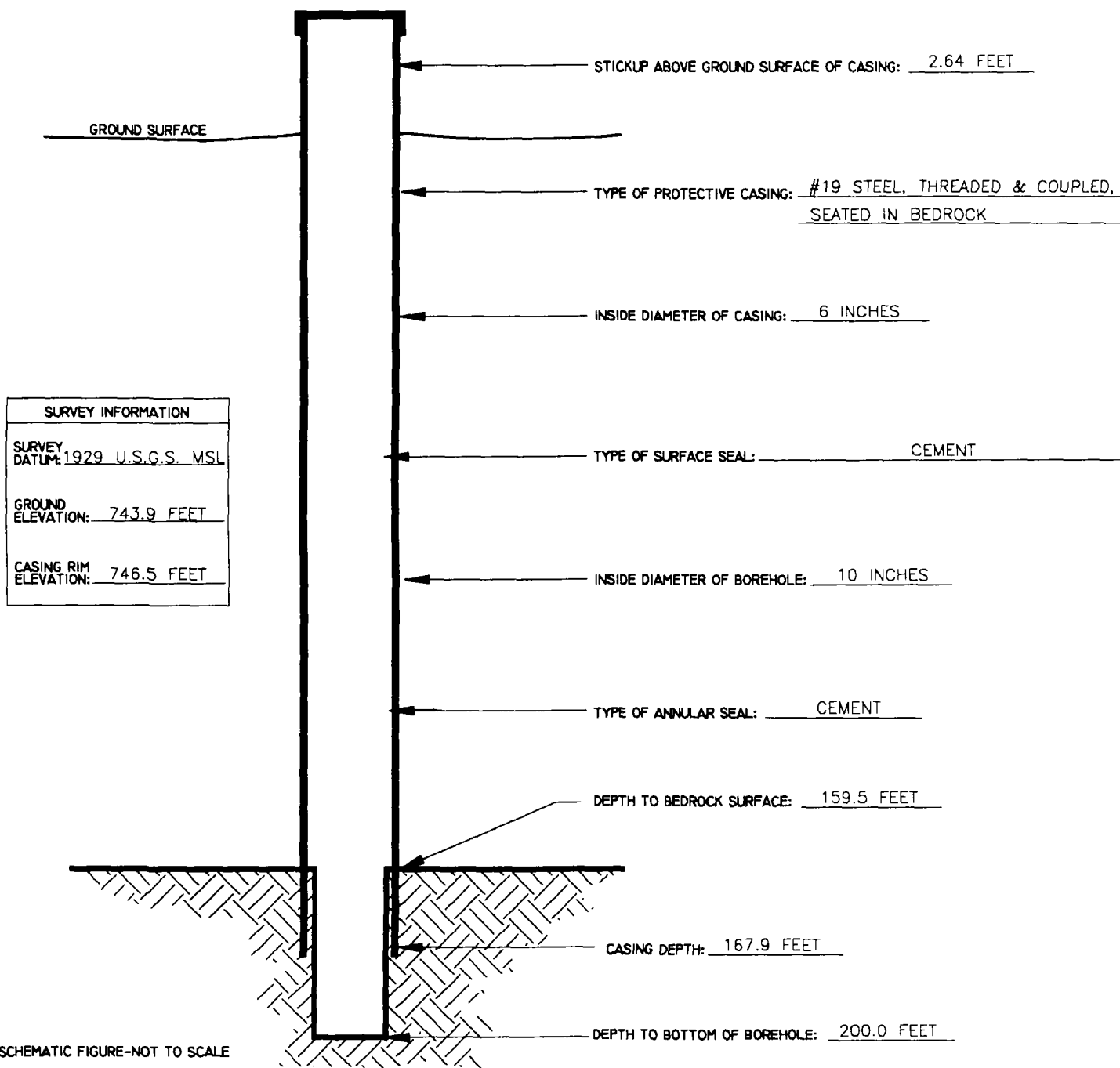
PROJECT NAME: PARKER LANDFILL
ESE PROJECT NUMBER: 490 5024

SITE LOCATION: LILY POND ROAD
LYNDONVILLE, VERMONT

PIEZOMETER NUMBER: 2048
COMPLETION DATE: 07-20-93

CONTRACTOR: L. G. CUSHING & SONS, INC.
DRILLER: D. DREW

ESE FIELD INSPECTOR: J. BELLEN
PADLOCK NUMBER: MASTER A188



NOTE: ALL DEPTHS ARE FROM GROUND SURFACE.

CASING SEATED IN BEDROCK ON 07-20-93.

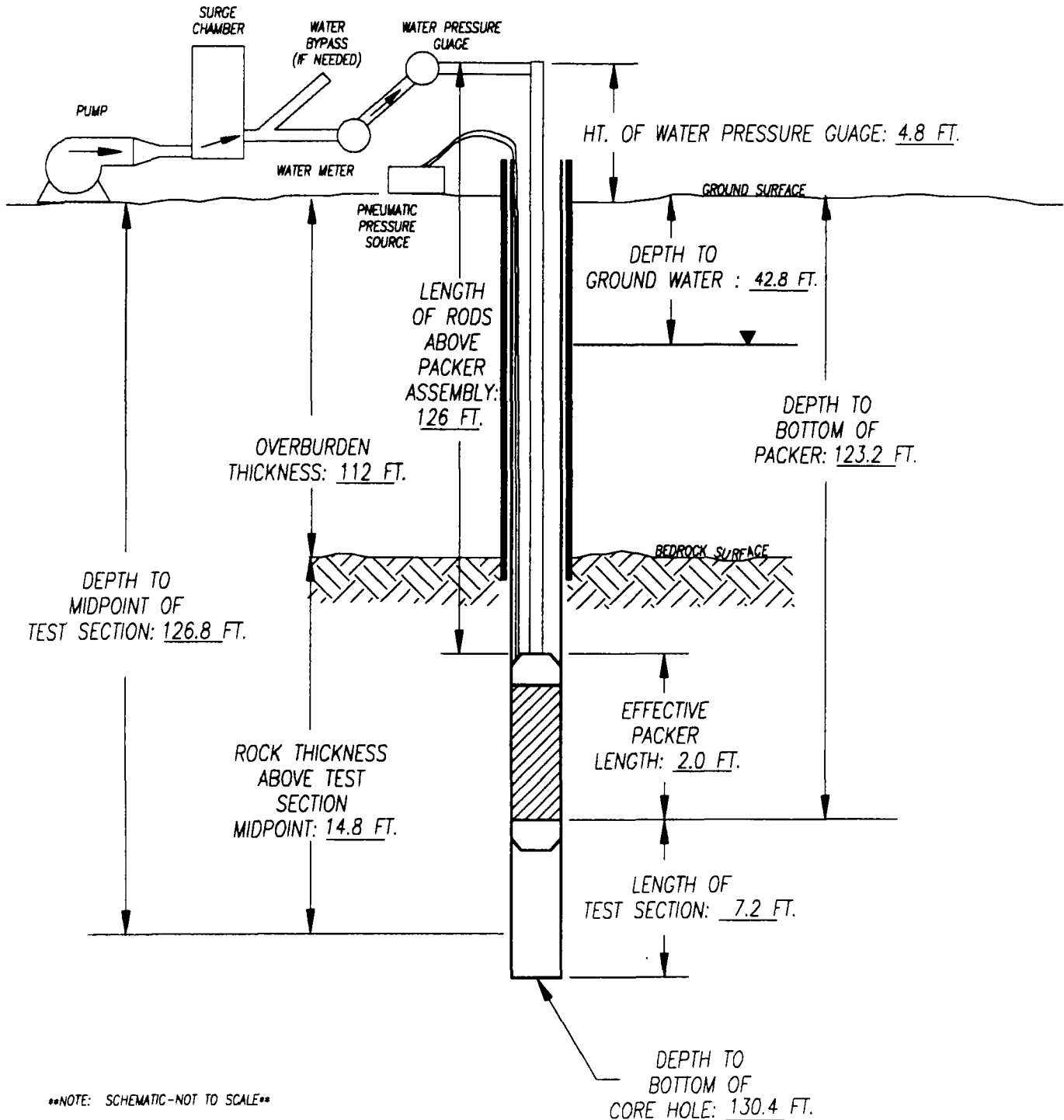
BEDROCK DRILLED ON 07-27-93.

APPENDIX H
PACKER TEST LOGS

WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 123.2 TO 130.4 FT. B.G.S.

BORING NUMBER: B102
 TEST NUMBER: 1
 DATE: MAY 15, 1991
 INSPECTOR: J. BANNON



NOTE: SCHEMATIC-NOT TO SCALE

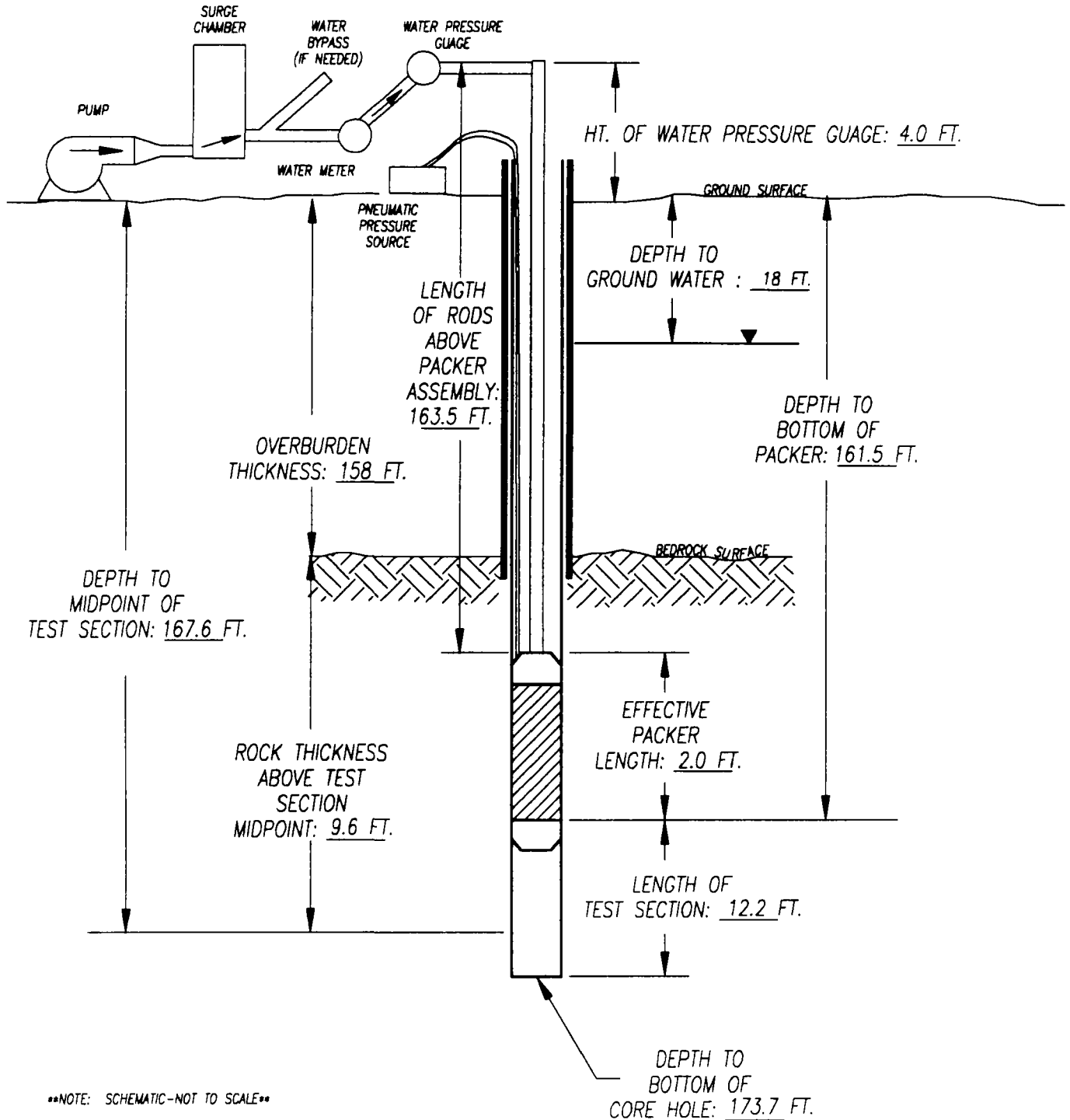
ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 102 B</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 OF 2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>787.06 FT.</u> DATE START: <u>MAY 15, 1991</u> DATE FINISH: <u>MAY 15, 1991</u> DRILLER: <u>A.J. CARON EDI</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>K. DuBois, J. Bannon</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	<u>SINGLE PACKER</u> <u>PENNDRIILL</u> <u>[7 FT DIFFUSER]</u>	<u>TRIDENT</u> <u>NEPTUNE</u> <u>34267257</u>	<u>0-300 PSI</u> <u>WEKSLE</u> <u>GR2-D290-3KPA</u>	<u>80 GAL.</u> <u>HARVARD</u> <u>STEEL TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>55 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>95 %</u> (3 RUN AVE.) RQD(%) <u>97 %</u> (3 RUN AVE.)		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>112.0 FT.</u> TO BOTTOM OF BORING <u>130.4 FT.</u> TO WATER TABLE <u>42.75 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>4.8 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>117 FT.</u> TO BOTTOM UPPER PACKER(2) <u>120.2 FT.</u> LENGTH OF TEST SECTION <u>7.2 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1005	0	140	14	4255.7		Pre-water meter guage
1006	1	142	13	4255.7	0	reading 23 PSI
1007	2	142	14	4255.7	0	Head Loss = 0
1008	3	142	14	4255.7	0	
1009	4	142	14	4255.7	0	
1010	5	142	14	4255.75	0.05	
1011	6	142	14	4255.75	0	
1012	7	142	14	4255.75	0	
1013	8	142	14	4255.75	0	
1014	9	142	14	4255.75	0	
1015	10	142	14	4255.75	0	
1021	0	142	38	4255.75		Pre-water meter guage
1022	1	142	38	4255.75	0	reading 43 PSI
1023	2	142	38	4255.75	0	Head Loss = 0
1024	3	142	38	4255.75	0	
1025	4	142	38	4255.75	0	
1026	5	142	38	4255.75	0	
1027	6	142	38	4255.75	0	
1028	7	142	38	4255.75	0	
1029	8	142	38	4255.75	0	
1030	9	142	38	4255.75	0	
1031	10	142	38	4255.75	0	
Single Packer assembly test.						
Form: h20press						

[illegible]

WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 161.5 TO 173.7 FT. B.G.S.

BORING NUMBER: B107
 TEST NUMBER: 1
 DATE: JUNE 19, 1991
 INSPECTOR: J. BANNON



••NOTE: SCHEMATIC-NOT TO SCALE••

B107.DWG

REV 1/92

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 107</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 OF 2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>743.10 FT.</u> DATE START: <u>JUNE 19, 1991</u> DATE FINISH: <u>JUNE 19, 1991</u> DRILLER: <u>A.J. CARON EDI</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	<u>SINGLE PACKER</u> <u>PENNDRIILL</u> <u>17 FT DIFFUSER</u>	<u>TRIDENT</u> <u>NEPTUNE</u> <u>34267257</u>	<u>0-300 PSI</u> <u>WEKSLER</u> <u>GR2-D290-3KPA</u>	<u>80 GAL.</u> <u>HARVARD</u> <u>STEEL TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>84 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>			ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>75.5 % (AVE.)</u> RQD(%) <u>66.5 % (AVE.)</u>			
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>158.4 FT.</u> TO BOTTOM OF BORING <u>173.5 FT.</u> TO WATER TABLE <u>18 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>4.1 FT.</u>					TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>159.4 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>161.4 FT.</u> LENGTH OF TEST SECTION <u>12.15 FT.</u>	
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1015	0	255	28	5068.2	0.0	Pre-water meter guage
1016	1	255	28	5068.5	0.3	reading 19 PSI
1017	2	255	28	5068.8	0.3	Head Loss = 0.0
1018	3	255	28	5069.1	0.3	
1019	4	255	28	5069.3	0.2	
1020	5	255	28	5069.6	0.3	
1021	6	255	28	5069.8	0.2	
1022	7	255	28	5070.1	0.3	
1023	8	255	28	5070.4	0.3	
1024	9	255	28	5070.6	0.2	
1025	10	255	28	5070.9	0.3	
1037	0	255	56	5075.2	0.0	Pre-water meter guage
1038	1	255	56	5075.8	0.6	reading 46 PSI
1039	2	255	55	5076.2	0.4	Head Loss = 0.0
1040	3	255	55	5076.6	0.4	
1041	4	255	55	5077.0	0.4	
1042	5	255	56	5077.4	0.4	
1043	6	255	55	5077.8	0.4	
1044	7	255	56	5078.3	0.5	
1045	8	255	55	5078.7	0.4	
1046	9	255	55	5079.0	0.3	
1047	10	255	55	5079.4	0.4	

Form: h20press

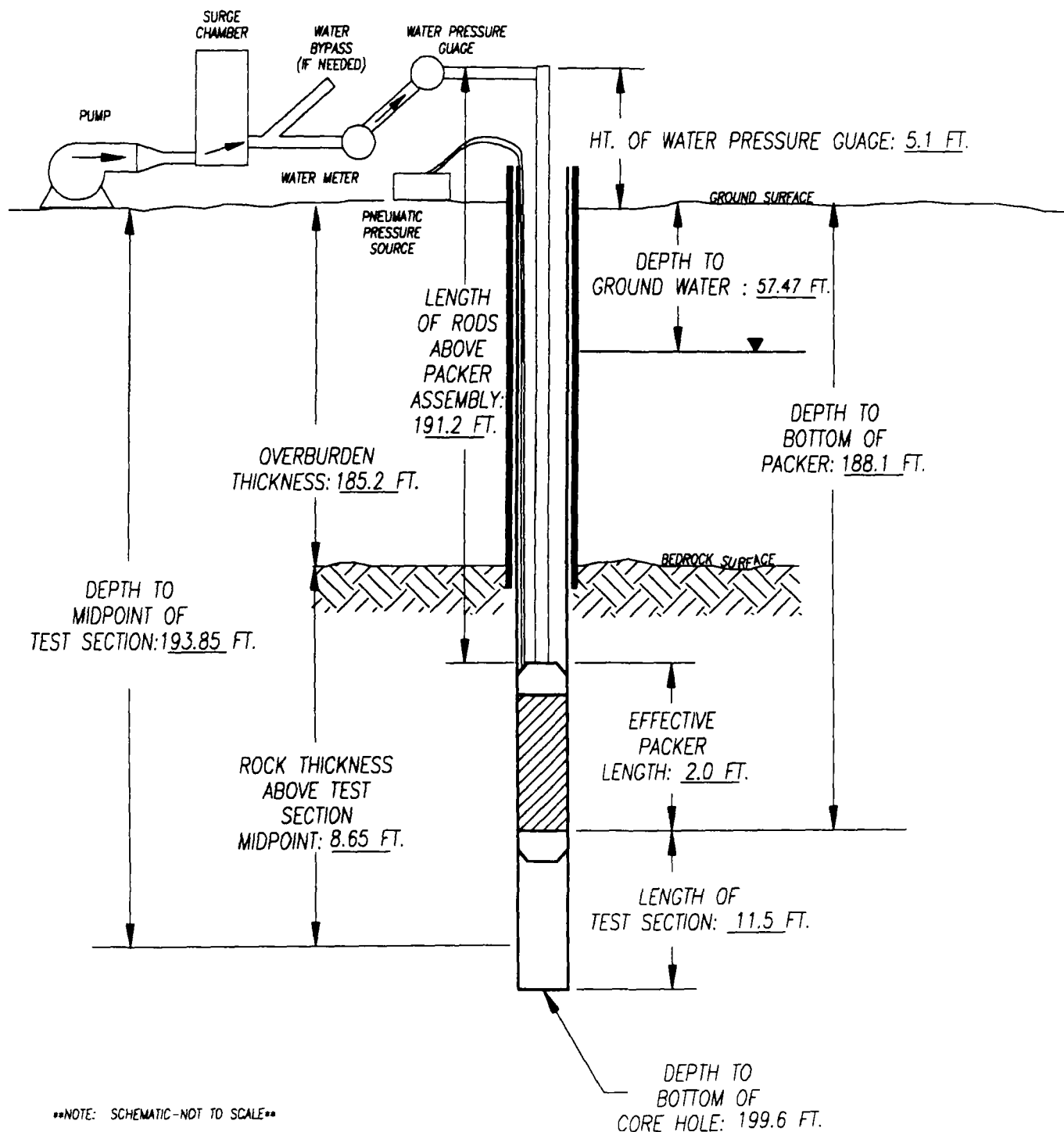
ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 107</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>2 OF 2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>743.1 FT.</u> DATE START: <u>JUNE 19, 1991</u> DATE FINISH: <u>JUNE 19, 1991</u> DRILLER: <u>A.J. CARON EDI</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE	<u>SINGLE PACKER</u>	<u>TRIDENT</u>	<u>0-300 PSI</u>	<u>80 GAL.</u>		
MFG.	<u>PENNDRIILL</u>	<u>NEPTUNE</u>	<u>WEKSLER</u>	<u>HARVARD</u>		
MODEL NO.	<u>[7 FT DIFFUSER]</u>	<u>34267257</u>	<u>GR2-D290-3KPA</u>	<u>STEEL TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>84 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>75.5 % (AVE.)</u> ROD(%) <u>66.5 % (AVE.)</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>158.4 FT.</u> TO BOTTOM OF BORING <u>173.5 FT.</u> TO WATER TABLE <u>18 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>4.1 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP LOWER PACKER <u>159.4 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>161.4 FT.</u> LENGTH OF TEST SECTION <u>12.1 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1053	0	285	84	5083.2	0.0	Pre-water meter guage
1054	1	285	84	5084.1	0.9	reading 72 PSI
1055	2	285	84	5084.6	0.5	Head Loss = 0.0
1056	3	285	84	5085.2	0.6	
1057	4	285	84	5085.8	0.6	
1058	5	285	85	5086.4	0.6	
1059	6	285	84	5087.0	0.6	
1100	7	285	84	5087.7	0.7	
1101	8	285	84	5088.2	0.5	
1102	9	285	84	5088.9	0.7	
1103	10	285	84	5089.5	0.6	
1105	0	285	55	5097.0	0.0	Pre-water meter guage
1106	1	285	55	5091.2	0.5	reading 47 PSI
1107	2	285	55	5091.6	0.4	Head Loss = 0.0
1108	3	285	55	5092.0	0.4	
1109	4	285	56	5092.5	0.5	
1110	5	285	55	5092.9	0.4	
1111	6	285	55	5093.4	0.5	
1112	7	285	55	5093.8	0.4	
1113	8	285	55	5094.2	0.4	
1114	9	285	55	5094.6	0.4	
1115	10	285	55	5095.0	0.4	

Form: h20press

WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 188.1 TO 199.6 FT. B.G.S.

BORING NUMBER: 8109
 TEST NUMBER: 1
 DATE: JUNE 5, 1991
 INSPECTOR: D. HULL



NOTE: SCHEMATIC-NOT TO SCALE

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 109C</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 of 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>777.29 FT.</u> DATE START: <u>JUNE 5, 1991</u> DATE FINISH: <u>JUNE 5, 1991</u> DRILLER: <u>C. STAMAS EDI</u> INSPECTOR: <u>D. HULL</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	<u>SINGLE PACKER</u> <u>PENNDRIILL</u> <u>[7 FT DIFFUSER]</u>	<u>TRIDENT</u> <u>NEPTUNE</u> <u>34267257</u>	<u>0-300 PSI</u> <u>WEKSLER</u> <u>GR2-D290-3KPA</u>	<u>80 GAL.</u> <u>HARVARD</u> <u>STEEL TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>82 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>93</u> RQD(%) <u>75</u>		
DEPTHS: (All Distances Measured from Ground Surface in Feet) TO TOP OF ROCK <u>183 FT.</u> TO TOP UPPER PACKER <u>186.1 FT.</u> TO BOTTOM OF BORING <u>200.5 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>188.1 FT.</u> TO WATER TABLE <u>57.5 FT.</u> LENGTH OF TEST SECTION <u>11.3 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>5.1 FT.</u>						
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1020	0	210	27	4620.0	0.0	Head Loss = 0.00071 FT.
1021	1	212	28	4622.1	2.1	
1022	2	212	28	4624.2	2.1	
1023	3	212	28	4626.3	2.1	
1024	4	212	28	4628.4	2.1	
1025	5	212	28	4636.0	2.2	
1026	6	212	28	4632.6	2.2	
1027	7	215	28	4634.7	2.1	
1028	8	215	28	4636.9	2.2	
1029	9	215	28	4639.2	2.3	
1030	10	215	28	4641.2	2.0	
1036	0	218	54	4660.0	0.0	Head Loss = 0.00065 FT.
1037	1	218	55	4663.1	3.1	
1038	2	218	54	4666.2	3.1	
1039	3	218	54	4669.1	2.9	
1040	4	218	54	4671.9	2.8	
1041	5	218	54	4674.6	2.7	
1042	6	218	54	4677.4	2.8	
1043	7	218	54	4680.6	3.2	
1044	8	218	54	4683.6	3.0	
1045	9	218	54	4686.5	2.9	
1046	10	218	54	4689.6	3.1	

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ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 109C</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>2 of 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>777.29</u> DATE START: <u>JUNE 5, 1991</u> DATE FINISH: <u>JUNE 5, 1991</u> DRILLER: <u>C. STAMAS EDI</u> INSPECTOR: <u>D. HULL</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE	<u>SINGLE PACKER</u>	<u>TRIDENT</u>	<u>0-300 PSI</u>	<u>80 GAL.</u>		
MFG.	<u>PENNDRILL</u>	<u>NEPTUNE</u>	<u>WEKSLER</u>	<u>HARVARD</u>		
MODEL NO.	<u>[7 FT DIFFUSER]</u>	<u>34267257</u>	<u>GR2-D290-3KPA</u>	<u>STEEL TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>82 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>			ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>93</u> RQD(%) <u>75</u>			
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>183 FT.</u> TO BOTTOM OF BORING <u>200.5 FT.</u> TO WATER TABLE <u>57.5 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>5.1 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>186.1 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>188.1 FT.</u> LENGTH OF TEST SECTION <u>11.3 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1050	0	250	82	4710.0	0.0	Head Loss = 0.079 FT.
1051	1	250	82	4718.2	8.2	
1052	2	250	82	4725.4	7.2	
1053	3	250	82	4733.0	7.6	
1054	4	250	82	4748.0	7.8	
1055	5	250	82	4748.8	8.0	
1056	6	250	82	4757.1	8.3	
1057	7	250	82	4766.7	9.6	
1058	8	250	82	4776.5	9.8	
1059	9	255	82	4787.0	10.5	
1060	10	255	82	4797.9	10.9	
1105	0	255	54	4810.0	0.0	Head Loss 0.051 FT.
1106	1	255	54	4816.5	6.5	
1107	2	255	54	4823.4	6.9	
1108	3	255	54	4832.0	6.8	
1109	4	260	54	4836.9	6.7	
1110	5	260	54	4843.8	6.9	
1111	6	260	54	4856.0	6.8	
1112	7	260	54	4857.4	6.8	
1113	8	260	54	4864.1	6.7	
1114	9	260	54	4871.2	7.1	
1115	10	260	54	4878.4	7.2	

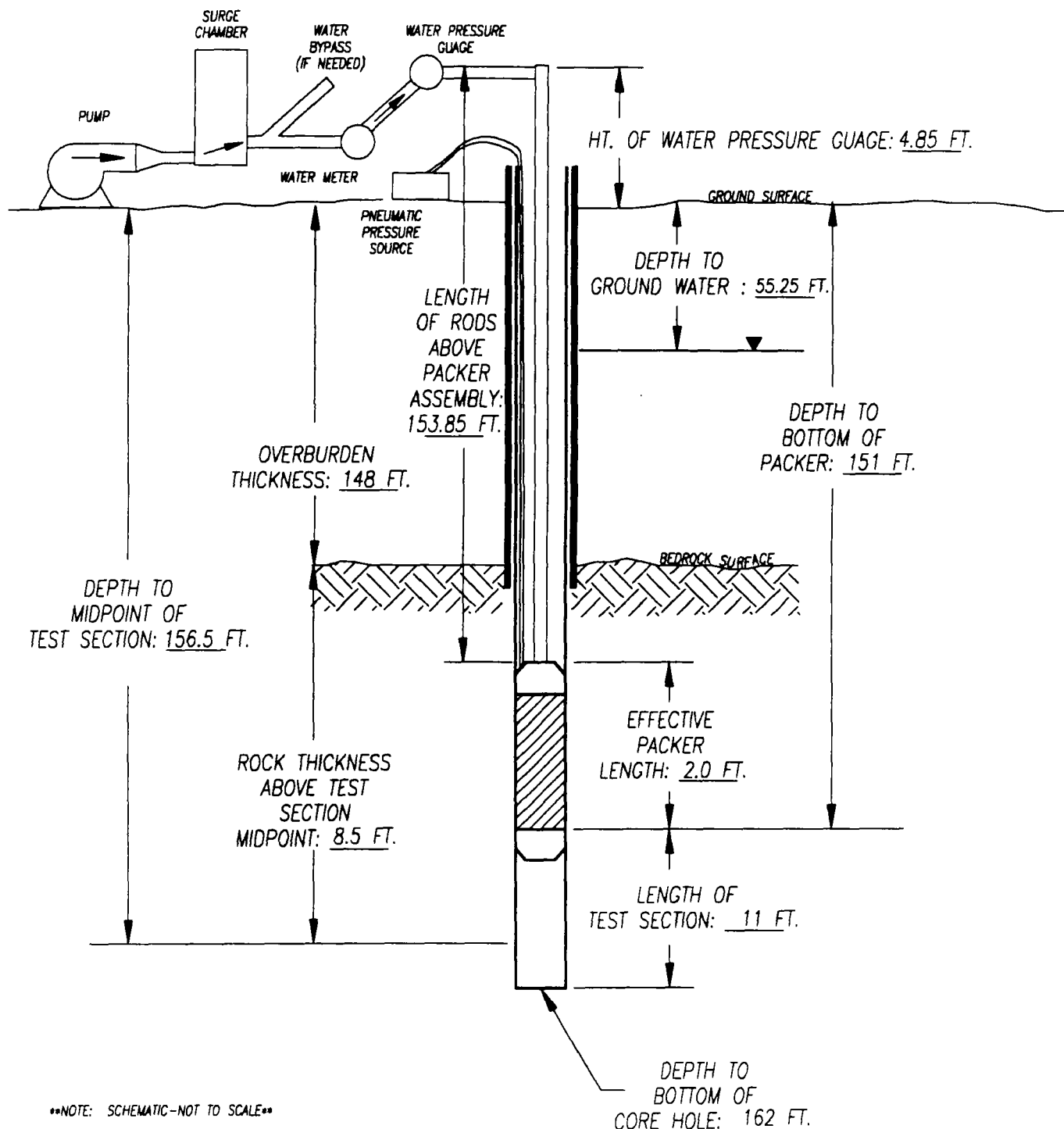
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WATER PRESSURE/PACKER TEST SCHEMATIC SINGLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 151.0 TO 162.0 FT. B.G.S.

BORING NUMBER: B112
TEST NUMBER: 1
DATE: JUNE 3, 1991
INSPECTOR: R. GALYEN



NOTE: SCHEMATIC-NOT TO SCALE

B112.DWG

REV 4/92

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 112</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 OF 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>825.74</u> DATE START: <u>JUNE 3, 1991</u> DATE FINISH: <u>JUNE 3, 1991</u> DRILLER: <u>C. STAMAS EDI</u> INSPECTOR: <u>R. GALEY</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	SINGLE PACKER	TRIDENT	0-300 PSI	80 GAL.		
	PENNDRIILL	NEPTUNE	WEKSLER	HARVARD		
	[7 FT DIFFUSER]	34267257	GR2-D290-3KPA	STEEL TANK		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>100 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>92</u> RQD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>140 FT.</u> TO BOTTOM OF BORING <u>162 FT.</u> TO WATER TABLE <u>55.25 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>4.85 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>149 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>151 FT.</u> LENGTH OF TEST SECTION <u>11 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1403	0	170	36	4456.1	0.0	Head Loss = 0.0067 FT.
1404	1	170	32	4456.3	0.2	
1405	2	170	37.5	4456.6	0.3	
1406	3	170	35	4456.8	0.2	
1407	4	170	35	4457.0	0.2	
1408	5	170	35	4457.2	0.2	
1409	6	170	35	4457.4	0.2	
1410	7	170	35	4457.6	0.2	
1411	8	170	35	4457.8	0.2	
1412	9	170	35	4458.1	0.3	
1413	10	170	35	4458.3	0.2	
1413	0	180	72	4459.1	0.0	Head Loss = 0.02 FT.
1414	1	180	71	4459.6	0.5	
1415	2	180	72	4460.0	0.4	
1416	3	180	71	4460.5	0.5	
1417	4	180	72	4460.9	0.4	
1418	5	180	72	4461.3	0.4	
1419	6	180	72.5	4461.7	0.4	
1420	7	180	72.5	4462.1	0.5	
1421	8	180	72	4462.6	0.5	
1422	9	180	73	4463.0	0.4	
1423	10	180	72	4463.4	0.4	

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ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 112</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>2 OF 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>825.74 FT.</u> DATE START: <u>JUNE 3, 1991</u> DATE FINISH: <u>JUNE 3, 1991</u> DRILLER: <u>C. STAMAS EDI</u> INSPECTOR: <u>R. GALYEN</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	<u>SINGLE PACKER</u>	<u>TRIDENT</u>	<u>0-300 PSI</u>	<u>80 GAL.</u>		
	<u>PENNDRIILL</u>	<u>NEPTUNE</u>	<u>WEKSLE</u>	<u>HARVARD</u>		
	<u>[7 FT DIFFUSER]</u>	<u>34267257</u>	<u>GR2-D290-3KPA</u>	<u>STEEL TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>100 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>92</u> RQD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>140 FT.</u> TO BOTTOM OF BORING <u>162 FT.</u> TO WATER TABLE <u>55.25 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>149 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>151 FT.</u> LENGTH OF TEST SECTION <u>11 FT.</u> <u>4.85 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1433	0	288	100	4496.9	0.0	Head Loss = 0.034 FT.
1434	1	288	102	4497.5	0.6	
1435	2	288	104	4498.2	0.7	
1436	3	288	104	4498.8	0.6	
1437	4	288	104	4499.4	0.6	
1438	5	288	104	4500.1	0.7	
1439	6	288	104	4500.8	0.7	
1440	7	288	104	4501.4	0.6	
1441	8	288	104	4502.0	0.6	
1442	9	288	104	4502.6	0.6	
1443	10	288	104	4503.2	0.6	
1447	0	288	72	4504.0	0.0	Head Loss = 0.018 FT.
1448	1	288	78	4504.4	0.4	
1449	2	288	74	4504.8	0.4	
1450	3	288	72	4505.2	0.4	
1451	4	288	72	4505.6	0.4	
1452	5	288	72	4506.0	0.4	
1453	6	288	71	4506.4	0.4	
1454	7	288	71	4506.9	0.5	
1455	8	288	71	4507.3	0.4	
1456	9	288	71	4507.7	0.4	
1457	10	288	70	4508.1	0.4	

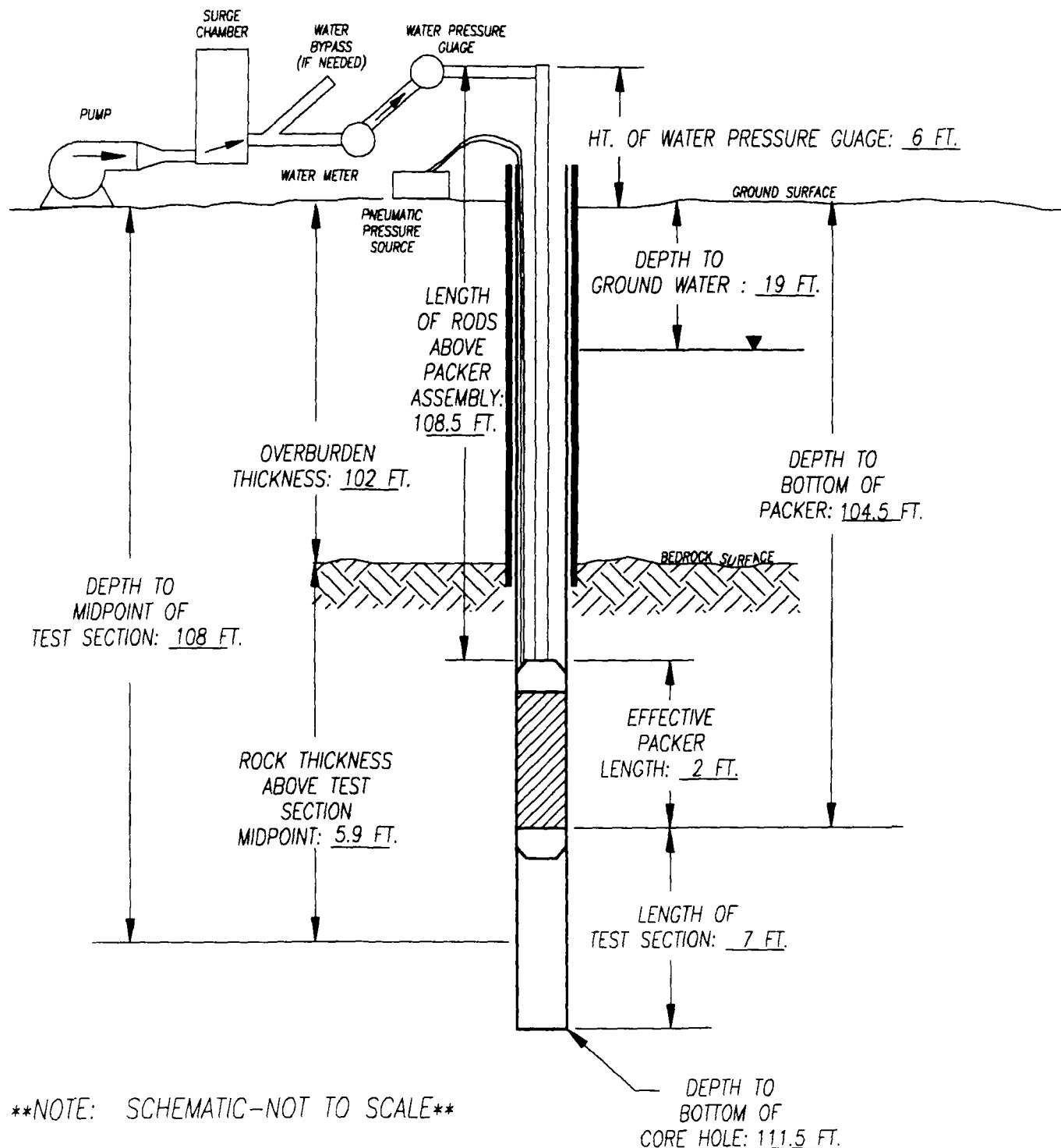
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WATER PRESSURE/PACKER TEST SCHEMATIC SINGLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 104.5-111.5 FT. B.G.S.

BORING NUMBER: B115
TEST NUMBER: 1
DATE: JUNE 24, 1991
INSPECTOR: D. HULL



****NOTE: SCHEMATIC-NOT TO SCALE****

B1151

REV 4/92

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 115</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 OF 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>769.1 FT.</u> DATE START: <u>JUNE 24, 1991</u> DATE FINISH: <u>JUNE 24, 1991</u> DRILLER: <u>B. HAYES EDI</u> INSPECTOR: <u>D. HULL</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	<u>SINGLE PACKER</u> <u>PENNDRIILL</u> <u>(7 FT DIFFUSER)</u>	<u>TRIDENT</u> <u>NEPTUNE</u> <u>34267257</u>	<u>0-300 PSI</u> <u>WEKSLER</u> <u>GR2-D290-3KPA</u>	<u>80 GAL.</u> <u>HARVARD</u> <u>STEEL TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>46 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>SILICIOUS PHYLLITE</u> HOLE SIZE <u>MX</u> RECOVERY(%) <u>86 %</u> RQD(%) <u>50</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>102.1 FT.</u> TO BOTTOM OF BORING <u>111.5 FT.</u> TO WATER TABLE <u>19 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>6 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>102.5 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>104.5 FT.</u> LENGTH OF TEST SECTION <u>7 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1548	0	220	15	5310.0	0.0	Head Loss = 0.17 FT/FT.
1549	1	220	15	5334.1	24.1	
1550	2	220	15	5357.5	23.4	
1551	3	220	15	5380.0	22.5	
1552	4	220	15	5401.5	21.5	
1553	5	220	15	5422.5	21.0	
1554	6	220	15	5443.6	21.1	
1555	7	220	15	5464.3	20.7	
1556	8	220	15	5485.0	20.7	
1557	9	220	15	5505.6	20.6	
1558	10	220	15	5526.3	20.7	
1610	0	220	30	5670.0	0.0	Head Loss = 0.5 FT/FT.
1611	1	220	30	5703.2	33.2	
1612	2	220	30	5736.6	33.4	
1613	3	220	30	5770.2	33.6	AT PRESSURES OF
1614	4	220	30	5805.1	34.9	30 AND 45 PSI, WATER
1615	5	220	30	5839.7	34.6	FROM THE PACKER TEST WAS
1616	6	220	30	5874.9	35.2	COMING TO THE SURFACE UP
1617	7	220	30	5910.0	35.1	THE ANULUS BETWEEN THE
1618	8	220	30	5945.1	35.1	4 IN. AND 3 IN. CASINGS.
1619	9	220	30	5980.3	35.2	THE PACKER WAS EVIDENTLY
1620	10	220	30	6015.5	35.2	SEATED PROPERLY IN THE

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ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031				WATER PRESSURE TEST		HOLE NO. <u>8 115</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>						FILE NO. <u>490 5024.0060</u> SHEET NO. <u>2 OF 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>769.1 FT.</u> DATE START: <u>JUNE 24, 1991</u> DATE FINISH: <u>JUNE 24, 1991</u> DRILLER: <u>B. HAYES EDI</u> INSPECTOR: <u>D. HULL</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER			
TYPE MFG. MODEL NO.	<u>SINGLE PACKER</u> <u>PENNDRILL</u> <u>(7 FT DIFFUSER)</u>	<u>TRIDENT</u> <u>NEPTUNE</u> <u>34267257</u>	<u>0-300 PSI</u> <u>WEKSLER</u> <u>GR2-D290-3KPA</u>	<u>80 GAL.</u> <u>HARVARD</u> <u>STEEL TANK</u>			
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>46 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>SILICIOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>86 %</u> RQD(%) <u>50</u>			
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>102.1 FT.</u> TO BOTTOM OF BORING <u>111.5 FT.</u> TO WATER TABLE <u>19 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE _____				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>102.5 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>104.5 FT.</u> LENGTH OF TEST SECTION <u>7 FT.</u> <u>6 FT.</u>			
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS	
1655	0	240	45	6440.0	0.0	BEDROCK BOREHOLE AND THE PACKER TEST WATER WAS FLOWING UPWARD THROUGH THE FRACTURED BEDROCK INTO THE OVERLYING UNCONSOLIDATED MATERIAL, THE WATER FOLLOWED A PATH OF LEAST RESISTANCE UP ALONG THE CASING TO THE SURFACE. NO RISE IN PACKER POSITION (DEPTH) WAS OBSERVED	
1656	1	240	45	6473.8	33.8		
1657	2	240	45	6507.4	33.6		
1658	3	240	45	6541.1	33.7		
1659	4	240	45	6574.5	33.4		
1700	5	240	45	6608.1	33.6		
1701	6	240	42	6642.0	33.9	Head Loss = 0.48 FT/FT.	
1702	7	240	42	6675.6	33.6		
1703	8	240	42	6709.1	33.5		
1704	9	240	40	6742.8	33.7		
1705	10	240	40	6776.5	33.7		
1710	0	240	30	6850.0	0.0	Head Loss = 0.32 FT/FT.	
1711	1	240	30	6877.8	27.8		
1712	2	240	30	6905.7	27.9		
1713	3	240	30	6933.4	27.7		
1714	4	240	30	6961.4	28.0		
1715	5	240	30	6988.7	27.3		
1716	6	240	30	7016.3	27.6		
1717	7	240	30	7044.0	27.7		
1718	8	240	30	7071.5	27.5		
1719	9	240	30	7099.1	27.6		
1720	10	240	30	7126.7	27.6		

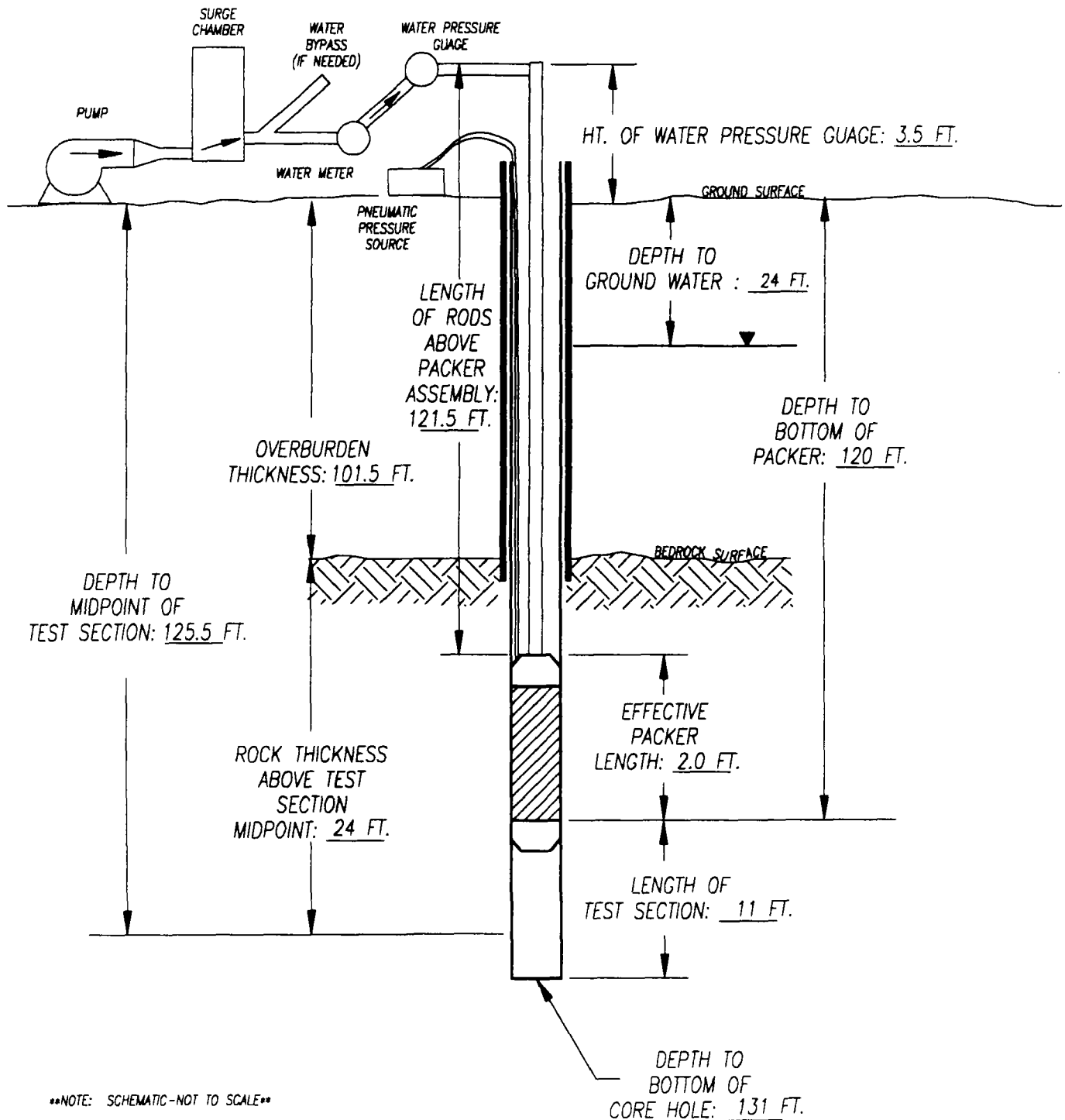
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WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 151.0 TO 162.0 FT. B.G.S.

BORING NUMBER: B120D
 TEST NUMBER: 1
 DATE: JUNE 21, 1991
 INSPECTOR: D. HULL



NOTE: SCHEMATIC-NOT TO SCALE

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 120</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 OF 2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>713.65 FT.</u> DATE START: <u>JUNE 21, 1991</u> DATE FINISH: <u>JUNE 21, 1991</u> DRILLER: <u>B. HAYES EDI</u> INSPECTOR: <u>D. HULL</u> GEOLOGIST: <u>K. DuBois</u>	
TYPE MFG. MODEL NO.	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
	<u>SINGLE PACKER</u>	<u>TRIDENT</u>	<u>0-300 PSI</u>	<u>80 GAL.</u>		
	<u>PENNDRIILL</u>	<u>NEPTUNE</u>	<u>WEKSLE</u>	<u>HARVARD</u>		
	<u>[7 FT DIFFUSER]</u>	<u>34267257</u>	<u>GR2-D290-3KPA</u>	<u>STEEL TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>60 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>96</u> RQD(%) <u>92</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>101.5 FT.</u> TO BOTTOM OF BORING <u>131.7 FT.</u> TO WATER TABLE <u>24 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.5 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>118 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>120 FT.</u> LENGTH OF TEST SECTION <u>11.7 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
0807	0	212	20	5154.4	0	Head Loss = 0
0808	1	212	20	5154.4	0	
0809	2	212	20	5154.4	0	
0810	3	212	20	5154.4	0	
0811	4	212	20	5154.4	0	
0812	5	212	20	5154.4	0	
0813	6	212	20	5154.4	0	
0814	7	212	20	5154.4	0	
0815	8	212	20	5154.4	0	
0816	9	212	20	5154.4	0	
0817	10	212	20	5154.4	0	
0820	0	210	40	5154.4	0	Head Loss = 0
0821	1	210	40	5154.4	0	
0822	2	210	40	5154.4	0	
0823	3	210	40	5154.4	0	
0824	4	210	40	5154.4	0	
0825	5	210	40	5154.4	0	
0826	6	210	40	5154.4	0	
0827	7	210	40	5154.4	0	
0828	8	210	40	5154.4	0	
0829	9	210	40	5154.4	0	
0830	10	210	40	5154.4	0	

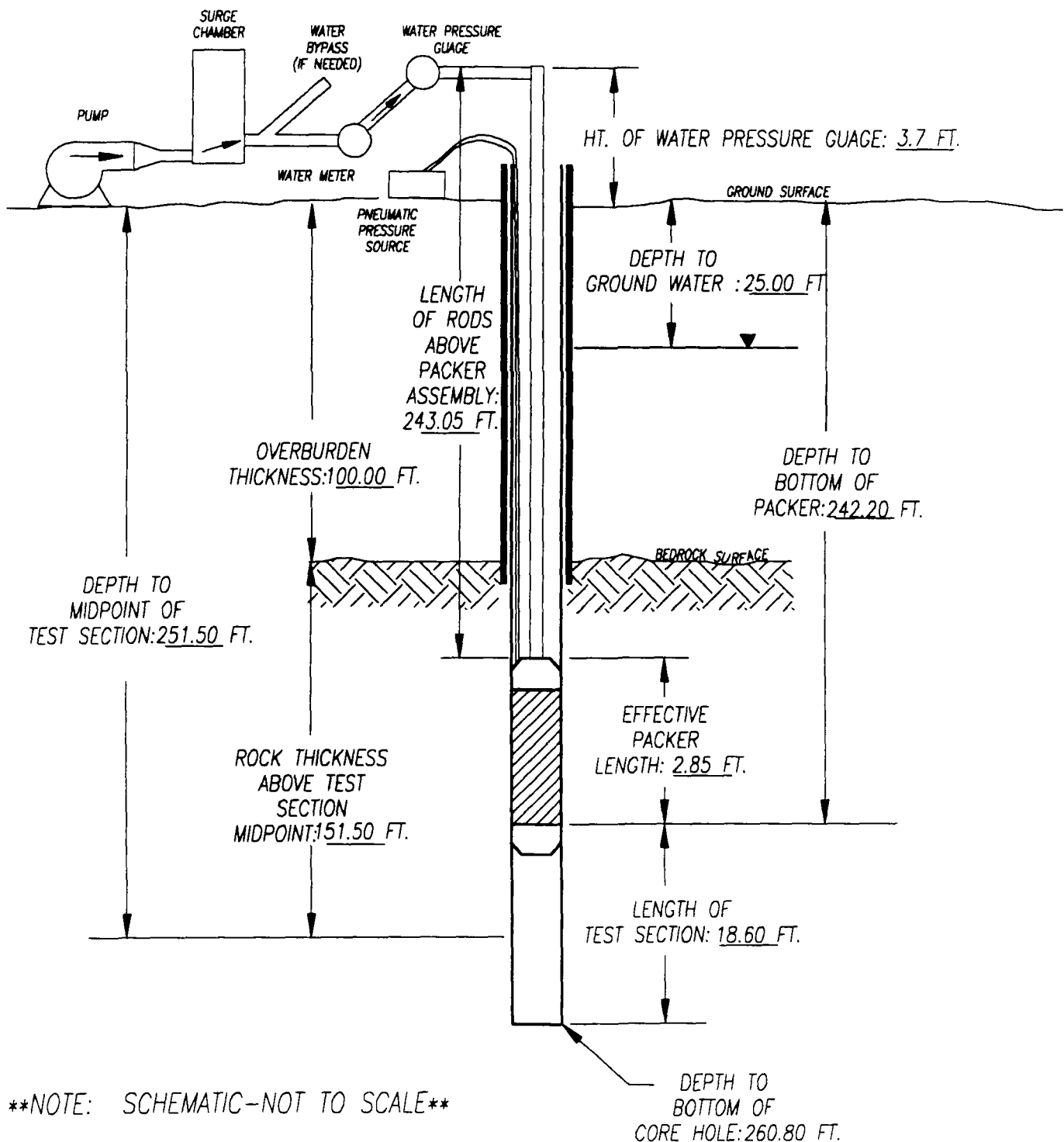
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WATER PRESSURE/PACKER TEST SCHEMATIC SINGLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 242.2-260.8 FT. B.G.S.

BORING NUMBER: B120E
TEST NUMBER: 1
DATE: JUNE 19, 1992
INSPECTOR: H. K. DUBOIS



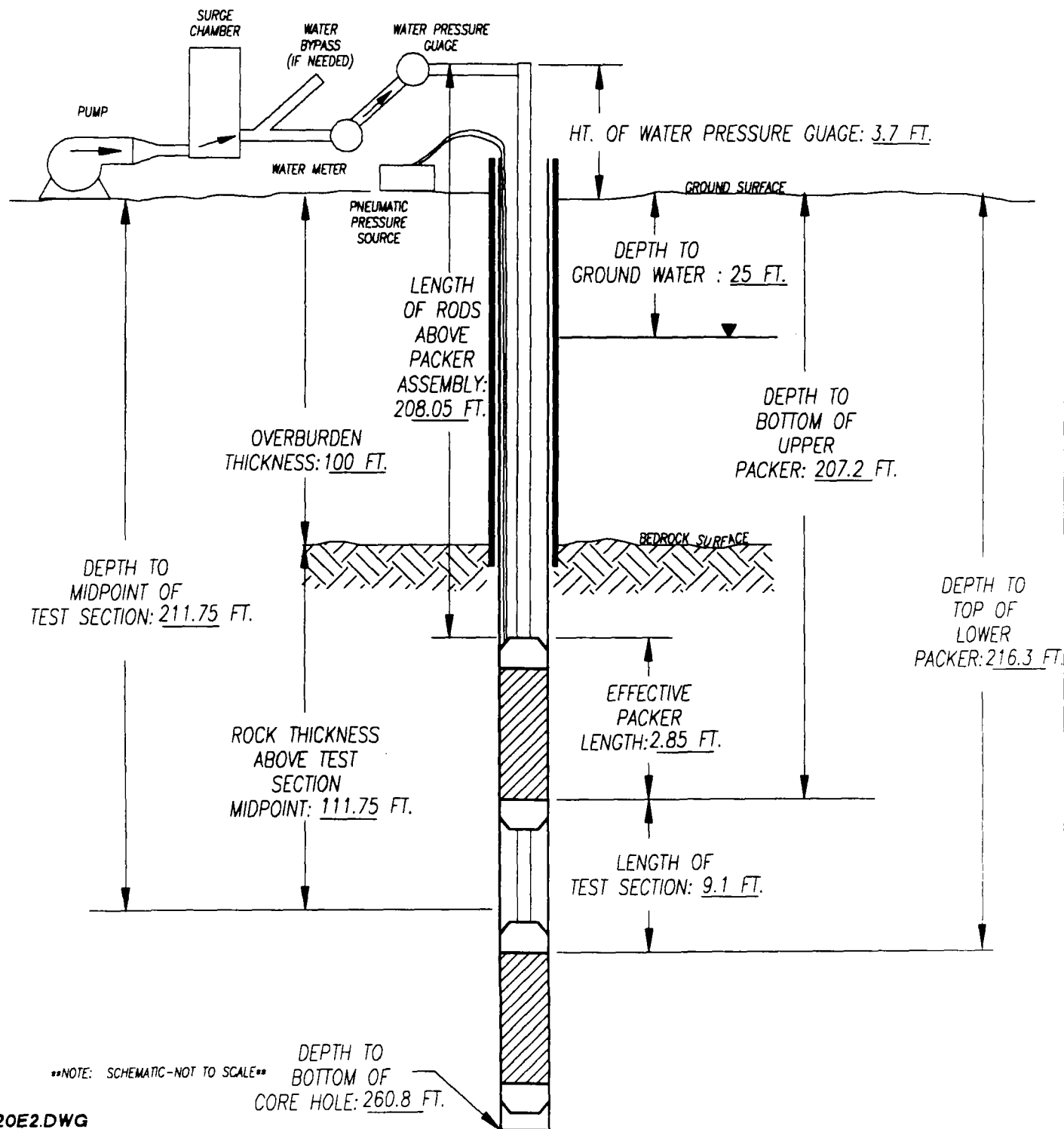
****NOTE: SCHEMATIC-NOT TO SCALE****

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031		WATER PRESSURE TEST		HOLE NO. B120E TEST NO. 1		
PROJECT: PARKER LANDFILL, LYNDONVILLE, VERMONT CLIENT: PRP GROUP CONTRACTOR: ENVIRONMENTAL DRILLING, INC.				FILE NO. 490 5024 SHEET NO. 1 LOCATION: See Plan, RIVERSIDE SCHOOL WELL ELEVATION: 713.49 DATE START: JUNE 19, 1992 DATE FINISH: JUNE 19, 1992 DRILLER: W. MITCHELL INSPECTOR: H.K. DUBOIS GEOLOGIST: H.K. DUBOIS		
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC	DIGITAL	ANALOG	PRESS. TANK		
	PENNDRIILL	NEPTUNE	WEKSLEK	UNKNOWN		
	NONE	34267257	NONE	NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) 154 PSI COMPUTED INTERNAL FRICTION: See Remarks			ROCK TYPE: CALCAREOUS PHYLLITE HOLE SIZE 6 IN. RECOVERY(%) UNKNOWN ROD(%) UNKNOWN			
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK 100 FT. TO BOTTOM OF BORING 260.8 FT. TO WATER TABLE 25 FT. HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE 3.7 FT.			TEST CONFIGURATION: SINGLE PACKER TO TOP LOWER PACKER NA TO BOTTOM UPPER PACKER(Z) 242.2 FT. LENGTH OF TEST SECTION 18.6 FT.			
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1520	0	190	0	-----	-----	Head Loss = 0.0
ATTEMPTED TO RUN TEST AT WATER PRESURES OF 51/102/AND 154 PSI, BUT WE COULD NOT SUPPLY WATER AT SUFFICIENT VOLUME TO GET MORE THAN 0 PSI ON THE WATER GAUGE. THE TEST WAS ABORTED. MAXIMUM PUMP RATE WAS 24.6 GPM.						

WATER PRESSURE/PACKER TEST SCHEMATIC **DOUBLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 207.2-216.3 FT. B.G.S.

BORING NUMBER: 120E
 TEST NUMBER: 2
 DATE: JUNE 9, 1992
 INSPECTOR: K. DUBOIS



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[illegible]

[illegible]

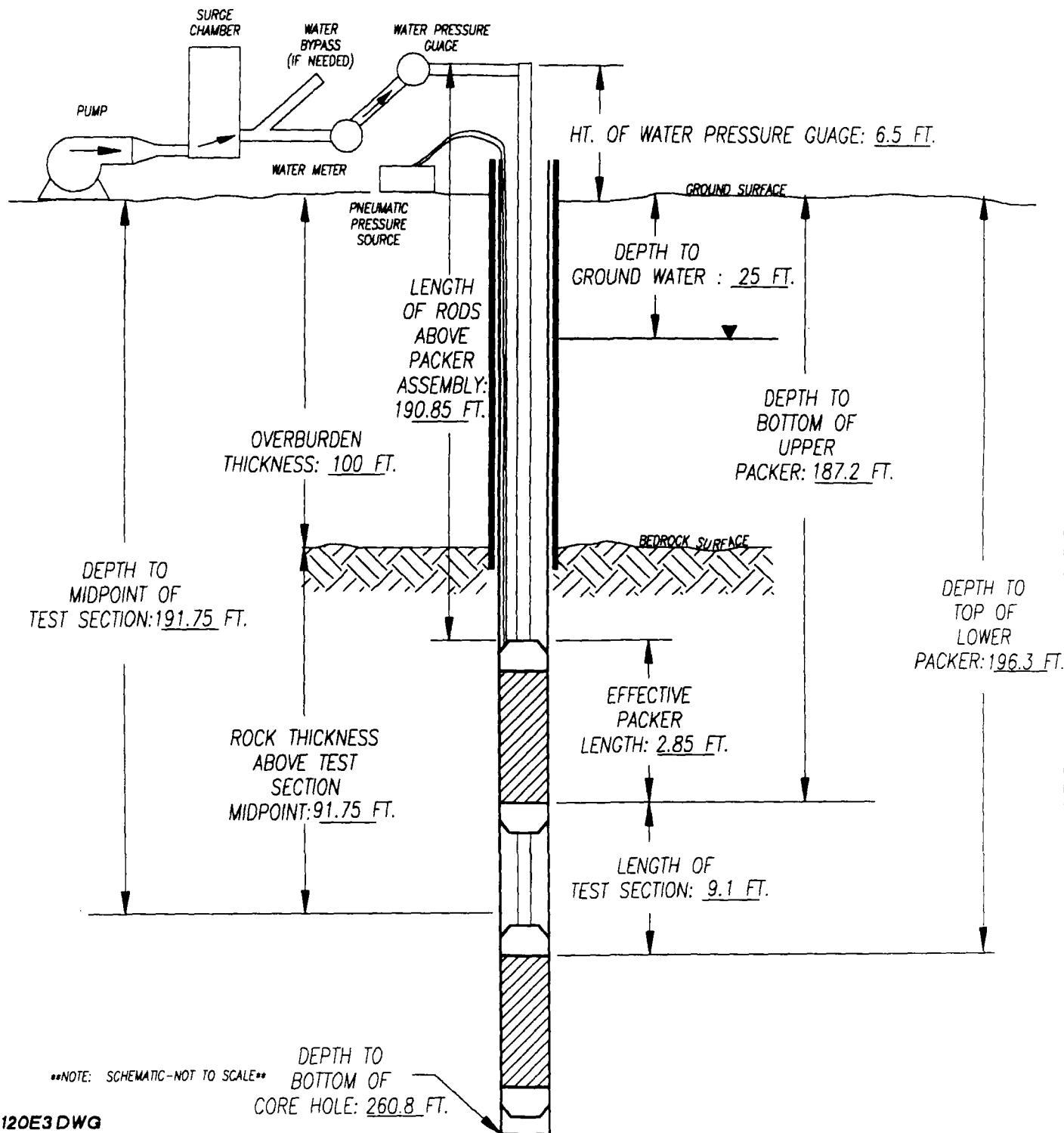
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WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 187.2-196.3 FT. B.G.S.

BORING NUMBER: 120E
TEST NUMBER: 3
DATE: JUNE 19, 1992
INSPECTOR: K. DUBOIS



[illegible]

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B120E</u> TEST NO. <u>3(C&D)</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>2</u> LOCATION: <u>See Plan, RIVERSIDE SUPPLY WELL</u> ELEVATION: <u>713.49 FT.</u> DATE START: <u>JUNE 19, 1992</u> DATE FINISH: <u>JUNE 19, 1992</u> DRILLER: <u>W. MITCHELL</u> INSPECTOR: <u>H.K. DUBOIS</u> GEOLOGIST: <u>H.K. DUBOIS</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC PENNDRILL NONE	DIGITAL NEPTUNE 34267257	ANALOG WEKSLER NONE	PRESS. TANK UNKNOWN UNKNOWN		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>110 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>			ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>UNKNOWN</u> RQD(%) <u>UNKNOWN</u>			
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>100 FT.</u> TO BOTTOM OF BORING <u>260.8 FT.</u> TO WATER TABLE <u>25 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>2.8 FT.</u>			TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP LOWER PACKER <u>196.3 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>187.2 FT.</u> LENGTH OF TEST SECTION <u>9.1 FT.</u>			
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1630	0	195	90	10200.00	0.00	COULD NOT GET 110 PSI OUT
1631	1	195	90	10219.30	19.30	OF PUMP.
1632	2	195	90	10239.50	20.20	Head Loss = 0.16 ft/ft.
1633	3	195	90	10259.60	20.10	OBSERVED WATER COMING OUT OF
1634	4	195	90	10279.70	20.10	THE WELL CASING - EITHER
1635	5	195	90	10299.80	20.10	ENTERING FORMATION AND BY-
1636	6	195	90	10319.80	20.00	PASSING PACKERS OR THERE
1637	7	195	90	10340.00	20.20	WAS A PROBLEM SEALING THE
1638	8	195	90	10360.00	20.00	UPPER PACKER DUE TO BOREHOLE
1639	9	195	100	10378.00	18.00	WALL ROUGHNESS.
1640	10	200	105	10396.80	18.80	
1711	0	200	70	10407.60	0.00	Head Loss = 0.0
1712	1	200	70	10407.75	0.15	
1713	2	200	70	10407.80	0.05	
1714	3	200	70	10407.88	0.08	
1715	4	200	70	10407.91	0.03	
1716	5	200	70	10408.00	0.09	
1717	6	200	70	10408.05	0.05	
1718	7	200	70	10408.10	0.05	
1719	8	200	70	10408.15	0.05	
1720	9	200	70	10408.20	0.05	
1721	10	200	70	10408.28	0.08	

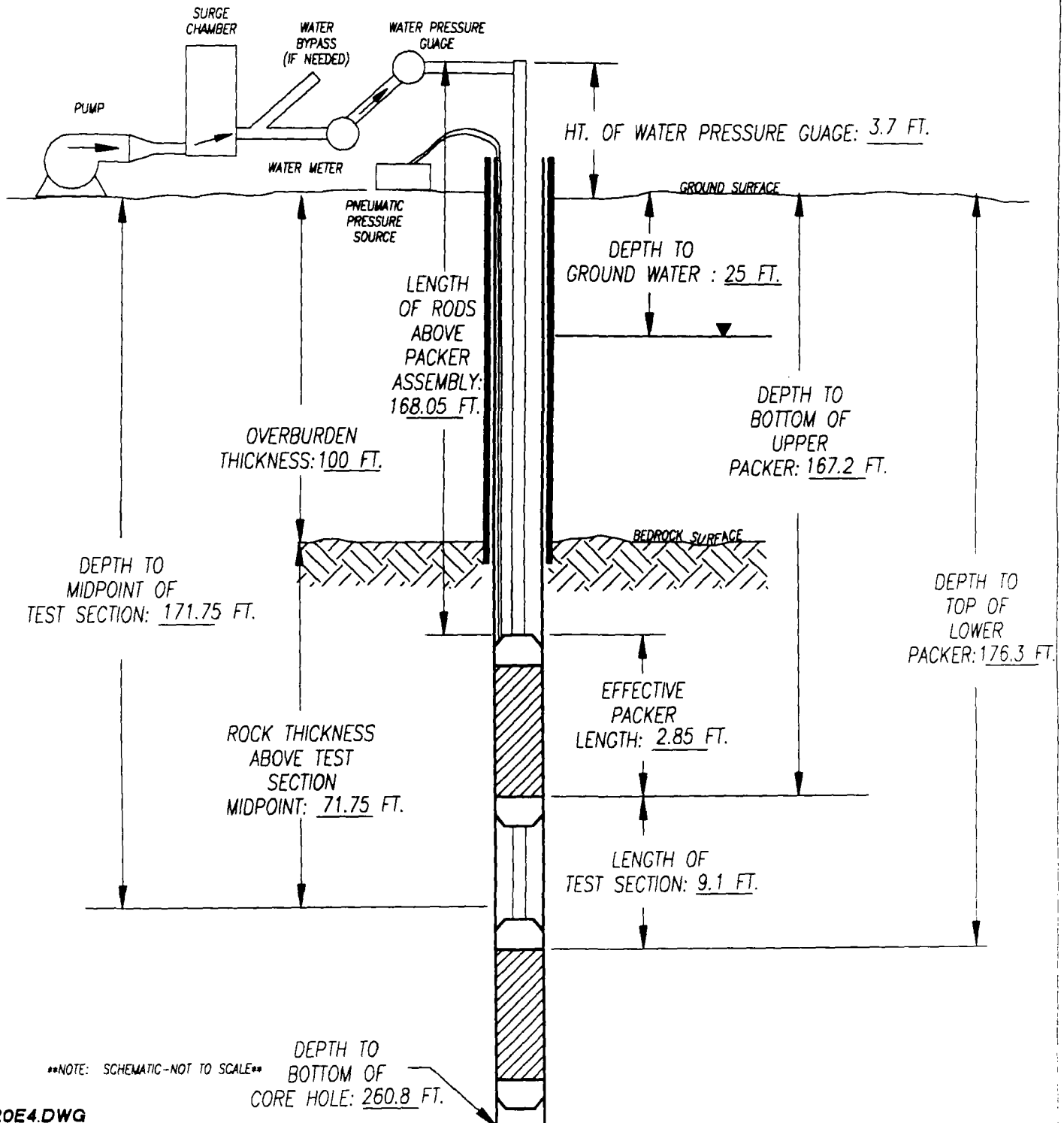
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WATER PRESSURE/PACKER TEST SCHEMATIC **DOUBLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 167.2-176.3 FT. B.G.S.

BORING NUMBER: 120E
 TEST NUMBER: 4
 DATE: JUNE 21, 1992
 INSPECTOR: K. DUBOIS



ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B120E</u> TEST NO. <u>4(A&B)</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan</u> ELEVATION: <u>713.49 FT.</u> DATE START: <u>JUNE 21, 1992</u> DATE FINISH: <u>JUNE 21, 1992</u> DRILLER: <u>W. MITCHELL</u> INSPECTOR: <u>H.K. DUBOIS</u> GEOLOGIST: <u>H.K. DUBOIS</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE	<u>PNEUMATIC</u>	<u>DIGITAL</u>	<u>ANALOG</u>	<u>PRESS. TANK</u>		
MFG.	<u>PENNDRIILL</u>	<u>NEPTUNE</u>	<u>WEKSLER</u>	<u>UNKNOWN</u>		
MODEL NO.	<u>NONE</u>	<u>34267257</u>	<u>NONE</u>	<u>UNKNOWN</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>90 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>UNKNOWN</u> RQD(%) <u>UNKNOWN</u>		
DEPTHS: (All Distances Measured from Ground Surface in Feet) TO TOP OF ROCK <u>100 FT.</u> TO TOP LOWER PACKER <u>176.3 FT.</u> TO BOTTOM OF BORING <u>260.8 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>167.2 FT.</u> TO WATER TABLE <u>25 FT.</u> LENGTH OF TEST SECTION <u>9.1 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>1 FT.</u>						
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
0920	0	180	30	10487.00	0.00	Head Loss = 0.0
0921	1	180	30	10487.00	0.00	
0922	2	180	30	10487.00	0.00	
0923	3	180	30	10487.00	0.00	
0924	4	180	30	10487.00	0.00	
0925	5	180	30	10487.00	0.00	
0926	6	180	30	10487.00	0.00	
0927	7	180	30	10487.00	0.00	
0928	8	180	30	10487.00	0.00	
0929	9	180	30	10487.00	0.00	
0930	10	180	30	10487.00	0.00	
1000	0	180	60	10487.00	0.00	Head Loss = 0.0
1001	1	180	60	10487.00	0.00	
1002	2	180	60	10487.00	0.00	
1003	3	180	60	10487.00	0.00	
1004	4	180	60	10487.00	0.00	
1005	5	180	60	10487.00	0.00	

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ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>8120E</u> TEST NO. <u>4(C&D)</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>2</u> LOCATION: <u>See Plan, RIVERSIDE SCHOOL WELL</u> ELEVATION: <u>713.49 FT.</u> DATE START: <u>JUNE 21, 1992</u> DATE FINISH: <u>JUNE 21, 1992</u> DRILLER: <u>W. MITCHELL</u> INSPECTOR: <u>H.K. DUBOIS</u> GEOLOGIST: <u>H.K. DUBOIS</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	<u>PNEUMATIC</u> <u>PENNDRIILL</u> <u>NONE</u>	<u>DIGITAL</u> <u>NEPTUNE</u> <u>34267257</u>	<u>ANALOG</u> <u>WEKSLER</u> <u>NONE</u>	<u>PRESSURE TANK</u> <u>UNKNOWN</u> <u>UNKNOWN</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>90 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>UNKNOWN</u> RQD(%) <u>UNKNOWN</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>100 FT.</u> TO BOTTOM OF BORING <u>260.8 FT.</u> TO WATER TABLE <u>25 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>1 FT.</u>				TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP LOWER PACKER <u>176.3 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>167.2 FT.</u> LENGTH OF TEST SECTION <u>9.1 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1006	0	190	90	10486.80	0.00	Head Loss = 0.0
1007	1	190	90	10487.30	0.50	
1008	2	190	90	10487.80	0.50	
1009	3	190	90	10488.30	0.50	
1010	4	190	90	10488.90	0.60	
1011	5	190	90	10489.50	0.60	
1012	6	190	90	10490.00	0.50	
1013	7	190	90	10490.60	0.60	
1014	8	190	90	10491.10	0.50	
1015	9	190	90	10491.60	0.50	
1016	10	190	90	10492.10	0.50	
1017	0	190	60	10492.30	0.00	Head Loss = 0.0
1018	1	190	60	10492.30	0.00	
1019	2	190	60	10492.30	0.00	
1020	3	190	60	10492.30	0.00	
1021	4	190	60	10492.30	0.00	
1022	5	190	60	10492.30	0.00	
1023	6	190	60	10492.30	0.00	

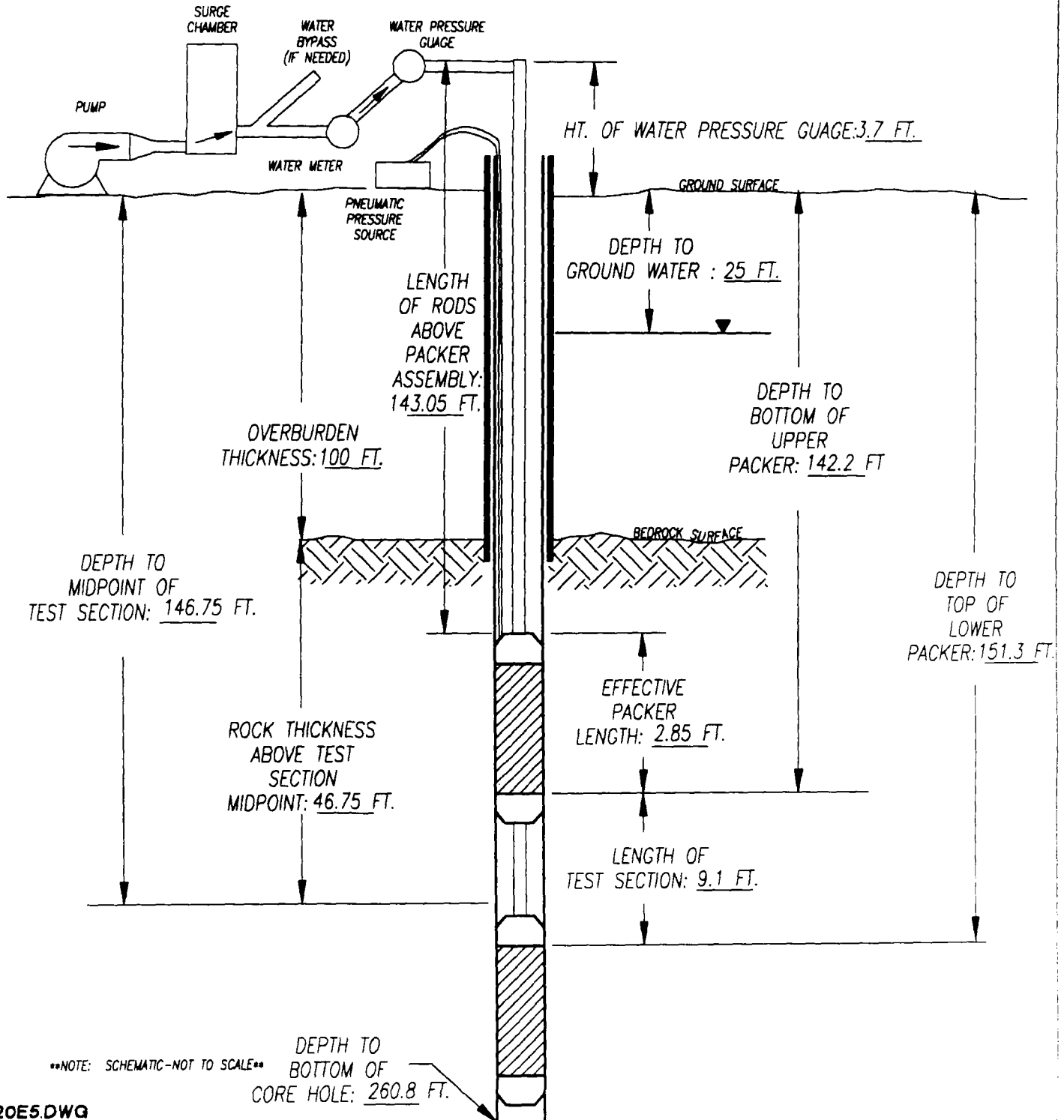
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WATER PRESSURE/PACKER TEST SCHEMATIC **DOUBLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 142.2-151.3 FT. B.G.S.

BORING NUMBER: 120E
 TEST NUMBER: 5
 DATE: JUNE 22, 1992
 INSPECTOR: K. DUBOIS



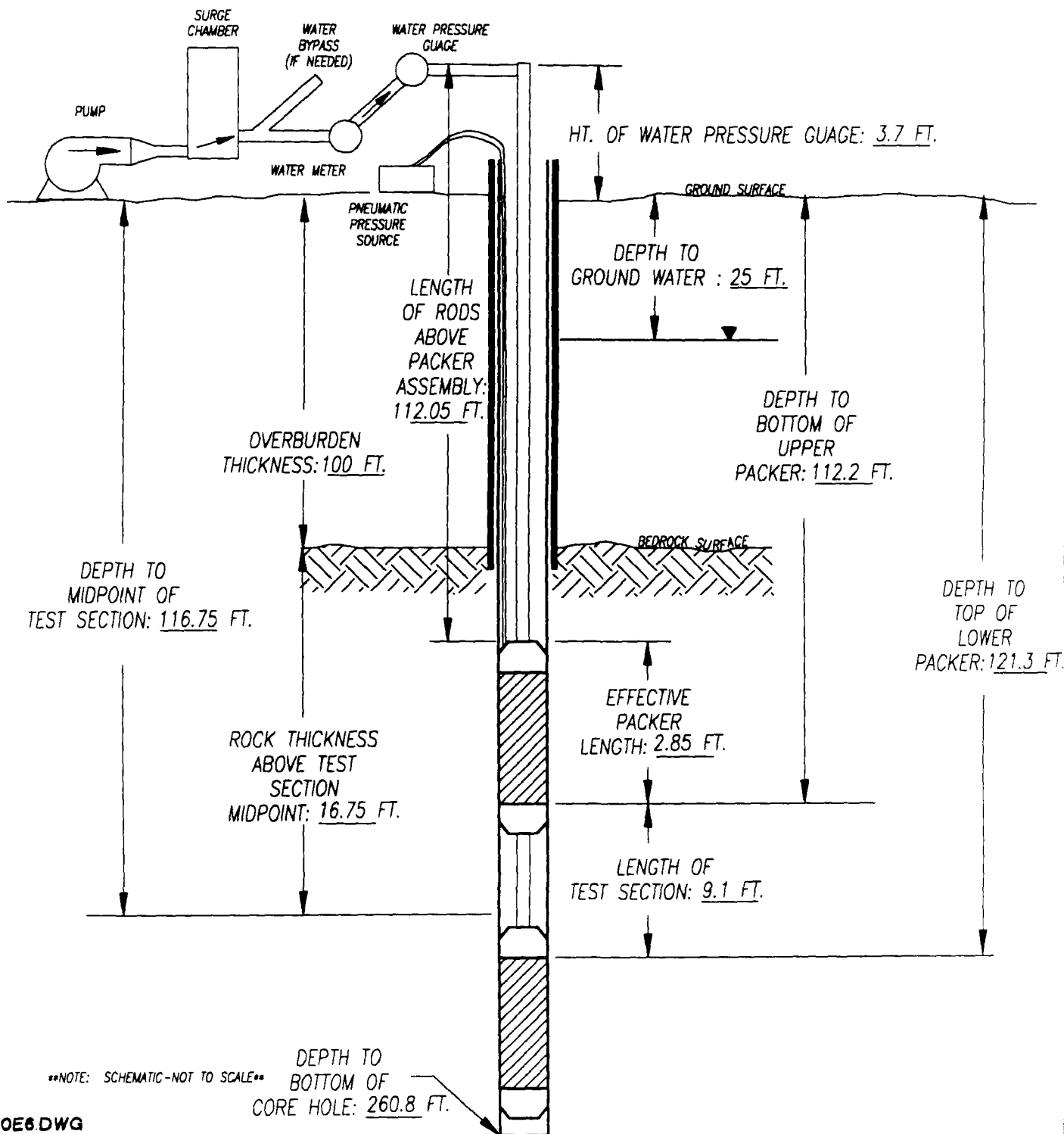
ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B120E</u> TEST NO. <u>5(A&B&C)</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan, RIVERSIDE SCHOOL WELL</u> ELEVATION: <u>713.49 FT.</u> DATE START: <u>JUNE 22, 1992</u> DATE FINISH: <u>JUNE 22, 1992</u> DRILLER: <u>W. MITCHELL</u> INSPECTOR: <u>H.K. DUBOIS</u> GEOLOGIST: <u>H.K. DUBOIS</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE	PNEUMATIC	DIGITAL	ANALOG	PRESS. TANK		
MFG.	PENNDRIILL	NEPTUNE	WEKSLER	UNKNOWN		
MODEL NO.	NONE	34267257	NONE	UNKNOWN		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>84 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>UNKNOWN</u> RQD(%) <u>UNKNOWN</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>100 FT.</u> TO BOTTOM OF BORING <u>260.8 FT.</u> TO WATER TABLE <u>25 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.7 FT.</u>				TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP LOWER PACKER <u>151.3 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>142.2 FT.</u> LENGTH OF TEST SECTION <u>9.1 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1105	0	150	25	10579.60	0.00	TEST 5(A)
1106	1	150	25	10579.60	0.00	Head Loss = 0.0
1107	2	150	25	10579.60	0.00	
1108	3	150	25	10579.60	0.00	
1109	4	150	25	10579.60	0.00	
1110	5	150	25	10579.60	0.00	
1112	0	160	50	10579.60	0.00	TEST 5(B)
1113	1	160	50	10579.60	0.00	Head Loss = 0.0
1114	2	160	50	10579.60	0.00	
1115	3	160	50	10579.60	0.00	
1116	4	160	50	10579.60	0.00	
1117	5	160	50	10579.60	0.00	
1118	0	160	85	10580.00	0.00	TEST 5(C)
1119	1	160	85	10581.00	1.00	Head Loss = 0.0
1120	2	160	85	10581.70	0.70	
1121	3	160	85	10582.25	0.55	
1122	4	160	85	10583.00	0.75	
1123	5	160	85	10583.70	0.70	
1124	6	160	85	10584.35	0.65	
1125	7	160	85	10584.90	0.55	
1126	8	160	85	10585.55	0.65	
1127	9	160	85	10586.15	0.95	
1128	10	160	85	10586.60	0.45	

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WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 112.2-121.3 B.G.S.

BORING NUMBER: 120E
TEST NUMBER: 6
DATE: JUNE 22, 1992
INSPECTOR: K. DUBOIS



ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B120E</u> TEST NO. <u>6(A&B&C)</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan, RIVERSIDE SCHOOL WELL</u> ELEVATION: <u>713.49 FT.</u> DATE START: <u>JUNE 22, 1992</u> DATE FINISH: <u>JUNE 22, 1992</u> DRILLER: <u>W. MITCHELL</u> INSPECTOR: <u>H.K. DUBOIS</u> GEOLOGIST: <u>H.K. DUBOIS</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC PENNDRIILL NONE	DIGITAL NEPTUNE 34267257	ANALOG WEKSLE NONE	PRESS. TANK UNKNOWN UNKNOWN		
M.G.P. = (0.566 to 1.0)(2) COMPUTED MAX GAUGE PRESS:(MGP) <u>60 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>			ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>N/A</u> RQD(%) <u>N/A</u>			
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>100 FT.</u> TO BOTTOM OF BORING <u>260.8 FT.</u> TO WATER TABLE <u>25 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.7 FT.</u>				TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP LOWER PACKER <u>121.3 FT.</u> TO BOTTOM UPPER PACKER(2) <u>112.2 FT.</u> LENGTH OF TEST SECTION <u>9.1 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1250	0	160	20	10662.90	0.00	TEST 6(A)
1251	1	180	20	10662.90	0.00	Head Loss = 0.0
1252	2	180	20	10662.90	0.00	
1253	3	180	20	10662.90	0.00	
1254	4	180	20	10662.90	0.00	
1255	5	180	20	10662.90	0.00	
1258	0	180	40	10662.90	0.00	TEST 6(B)
1259	1	180	40	10662.90	0.00	Head Loss = 0.0
1300	2	180	40	10662.90	0.00	
1301	3	180	40	10662.90	0.00	
1302	4	180	40	10662.90	0.00	
1303	5	180	40	10662.90	0.00	
1305	0	180	60	10663.00	0.00	TEST 6(C)
1306	1	180	60	10663.00	0.00	Head Loss = 0.0
1307	2	180	60	10663.10	0.10	
1308	3	180	60	10663.20	0.10	
1309	4	180	60	10663.25	0.05	
1310	5	180	60	10663.35	0.10	
1311	6	180	60	10663.40	0.05	
1312	7	180	60	10663.50	0.10	
1313	8	180	60	10663.55	0.05	
1314	9	180	60	10663.60	0.05	
1315	10	180	60	10663.70	0.10	

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ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B120E</u> TEST NO. <u>6(D&E)</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>2</u> LOCATION: <u>See Plan, RIVERSIDE SCHOOL WELL</u> ELEVATION: <u>713.49 FT.</u> DATE START: <u>JUNE 22, 1992</u> DATE FINISH: <u>JUNE 22, 1992</u> DRILLER: <u>W. MITCHELL</u> INSPECTOR: <u>H.K. DUBOIS</u> GEOLOGIST: <u>H.K. DUBOIS</u>	
TYPE MFG. MODEL NO.	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
	PNEUMATIC	DIGITAL	ANALOG	PRESSURE TANK		
	PENNDRILL	NEPTUNE	WEKSER	UNKNOWN		
	NONE	34267257	NONE	UNKNOWN		

M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>60 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>	ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>N/A</u> ROD(%) <u>N/A</u>
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DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>100 FT.</u> TO BOTTOM OF BORING <u>260.8 FT.</u> TO WATER TABLE <u>25 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>1 FT.</u>	TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP LOWER PACKER <u>121.3 FT.</u> TO BOTTOM UPPER PACKER(2) <u>112.2 FT.</u> LENGTH OF TEST SECTION <u>9.1 FT.</u>
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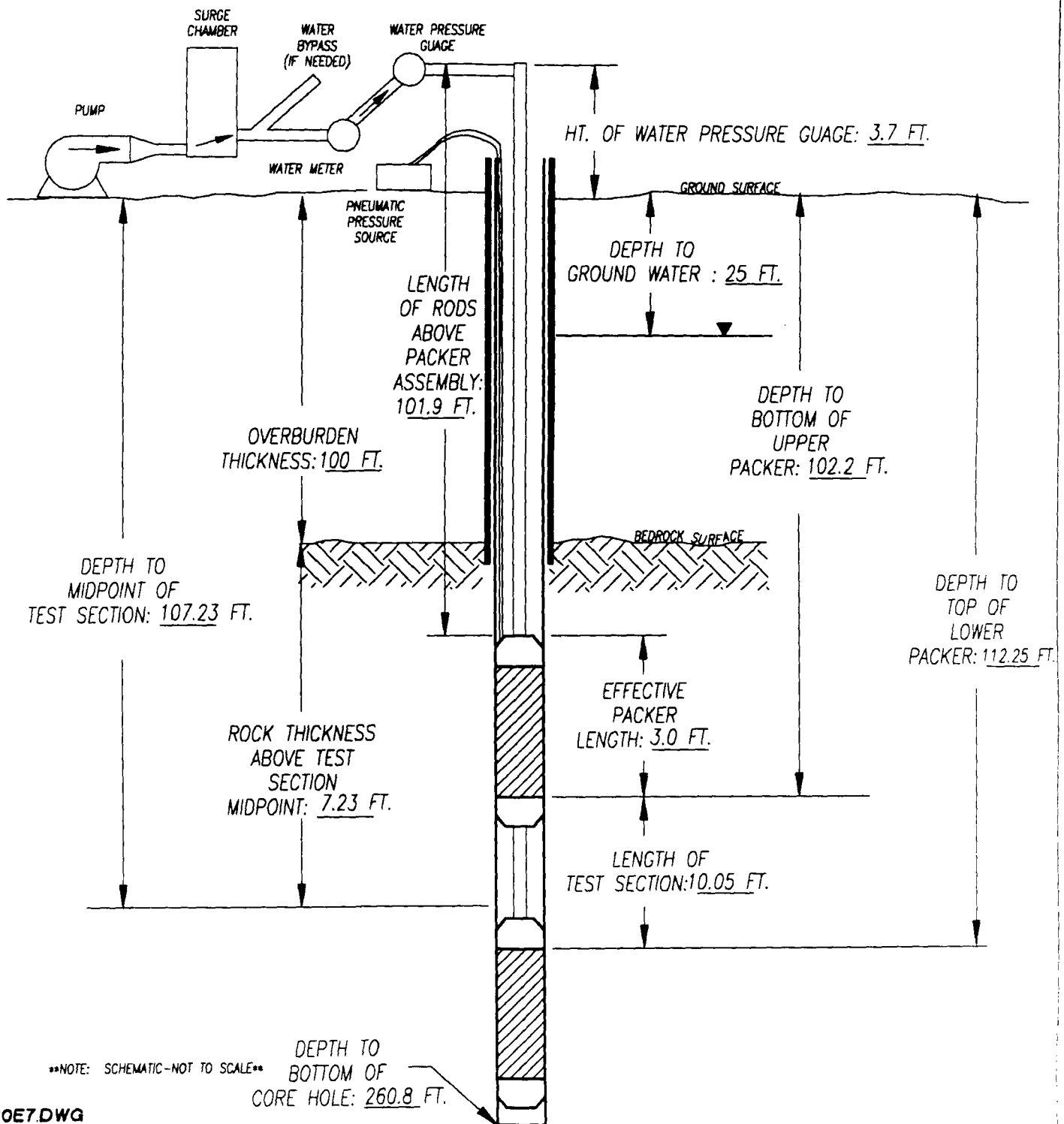
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1315	0	180	40	10663.80	0.00	Head Loss = 0.0
1316	1	180	40	10663.80	0.00	
1317	2	180	40	10663.85	0.05	
1318	3	180	40	10663.90	0.05	
1319	4	180	40	10663.90	0.00	
1320	5	180	40	10664.00	0.10	
1321	6	180	40	10664.00	0.00	
1322	7	180	40	10664.00	0.00	
1323	8	180	40	10664.05	0.05	
1324	9	180	40	10664.10	0.10	
1325	10	180	40	10664.10	0.00	
1348	0	180	20	10664.10	0.00	Head Loss = 0.0
1349	1	180	20	10664.15	0.05	
1350	2	180	20	10664.15	0.00	
1351	3	180	20	10664.20	0.05	
1352	4	180	20	10664.20	0.00	
1353	5	180	20	10664.20	0.00	
1354	6	180	20	10664.20	0.00	
1355	7	180	20	10664.20	0.00	
1356	8	180	20	10664.25	0.05	
1357	9	180	20	10664.25	0.00	
1358	10	180	20	10664.25	0.00	

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WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 102.2-112.25 B.G.S.

BORING NUMBER: 120E
TEST NUMBER: 7
DATE: JUNE 22, 1992
INSPECTOR: K. DUBOIS

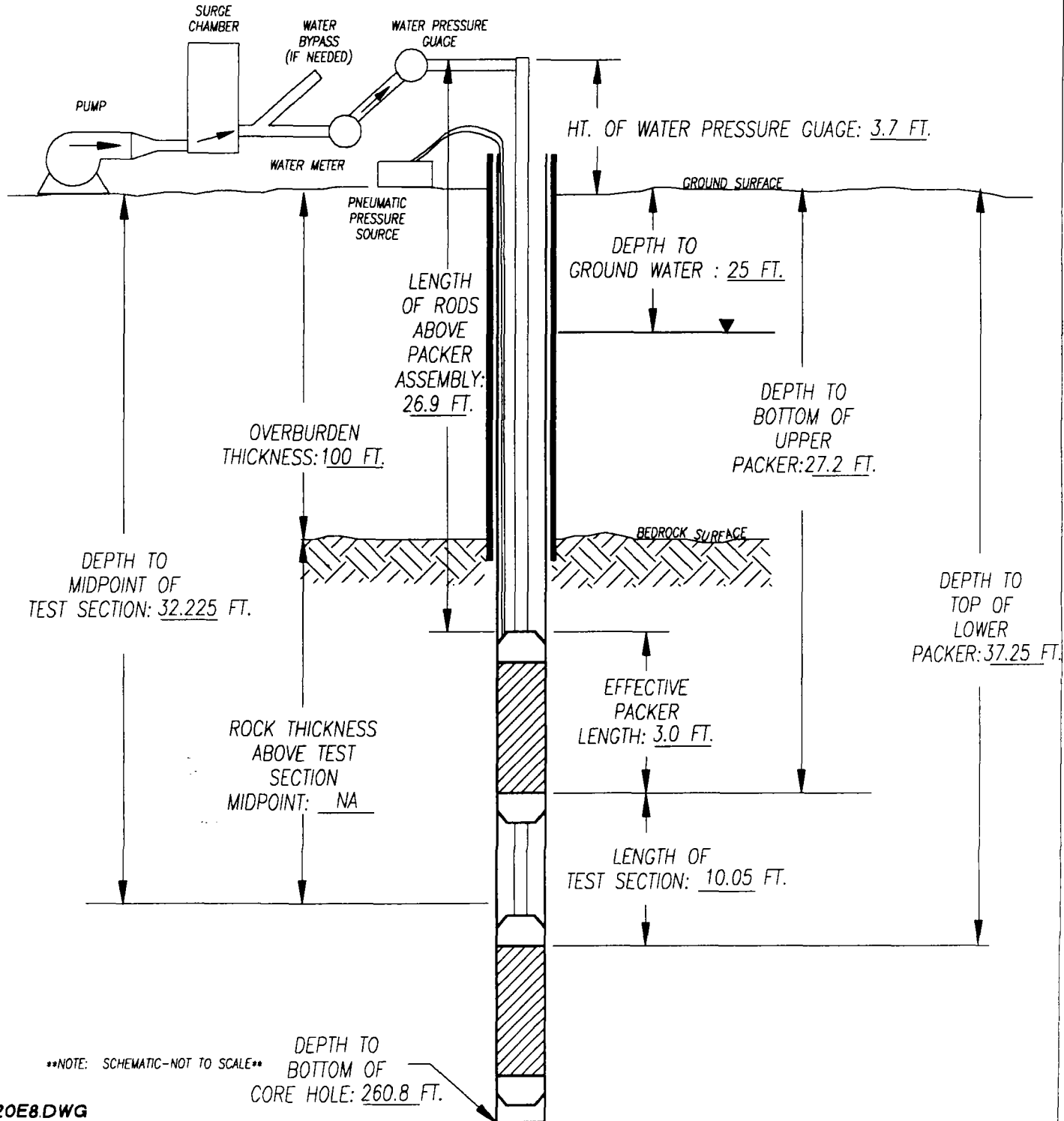


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WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 27.2-37.25 B.G.S.

BORING NUMBER: 120E
TEST NUMBER: 8
DATE: JUNE 22, 1992
INSPECTOR: K. DUBOIS

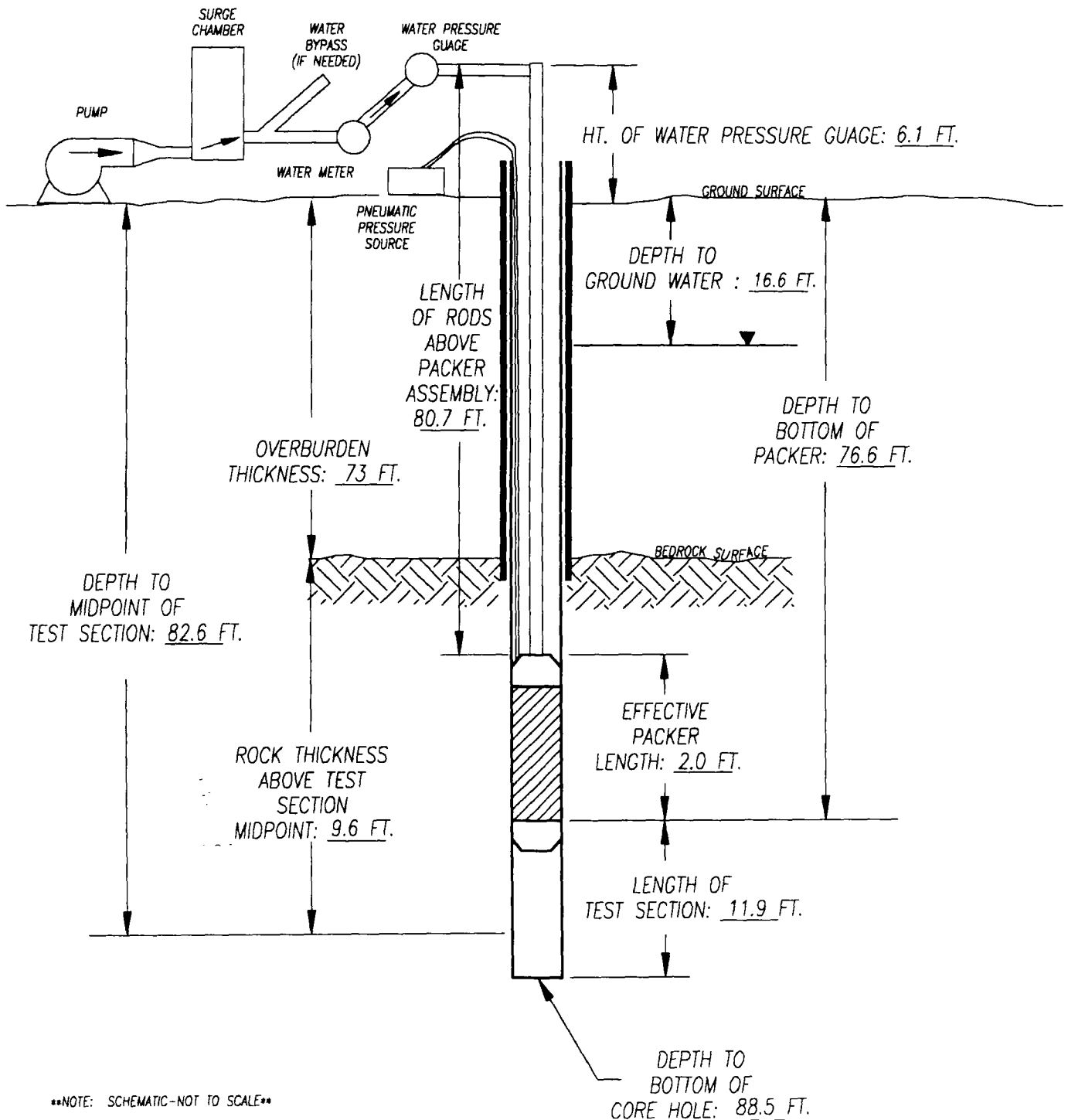


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WATER PRESSURE/PACKER TEST SCHEMATIC SINGLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 76.6 TO 88.5 FT. B.G.S.

BORING NUMBER: B125
TEST NUMBER: 1
DATE: MAY 30, 1991
INSPECTOR: D. HULL



B125.DWG

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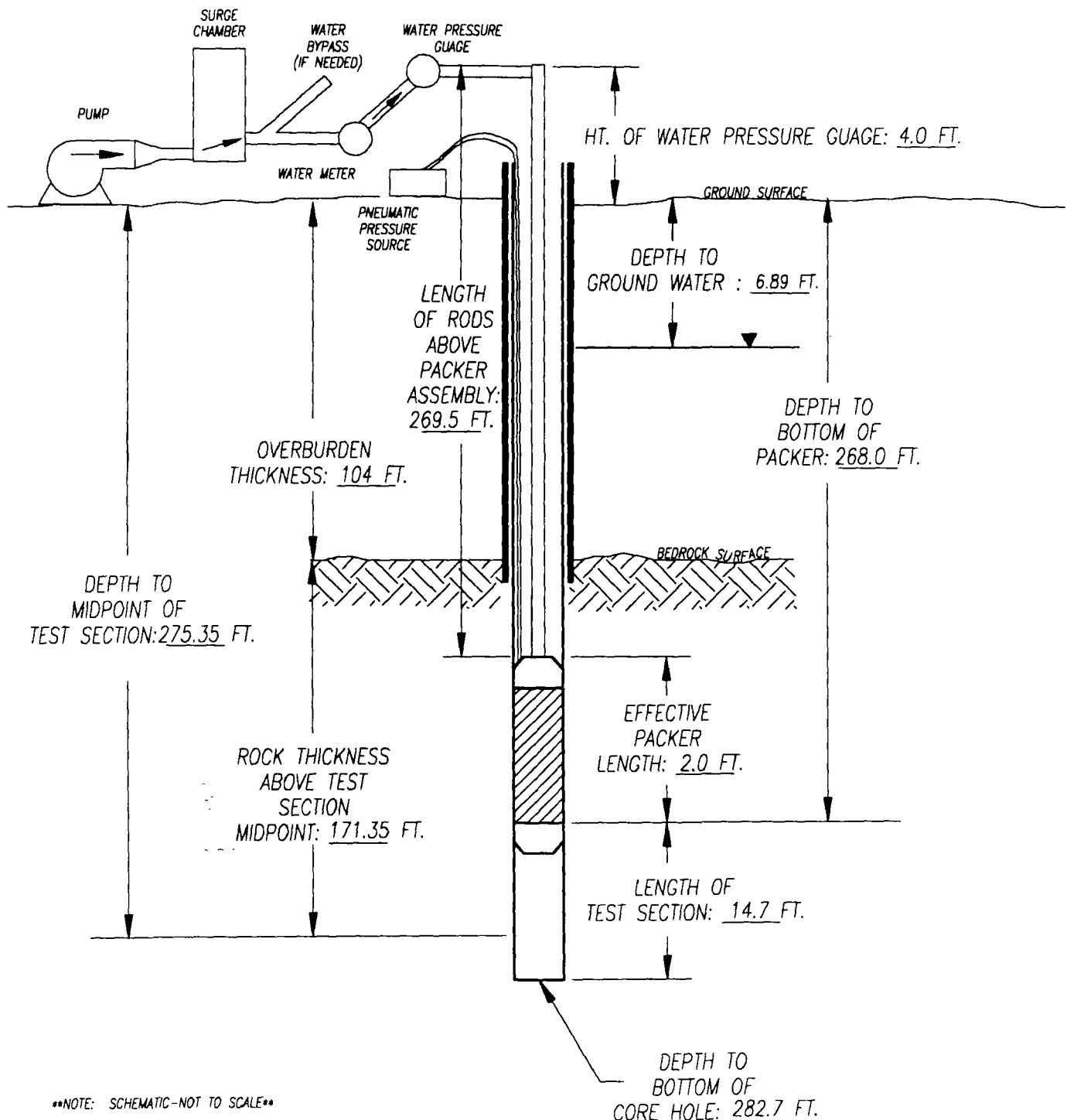
ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B 125</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 OF 2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>709.29 FT.</u> DATE START: <u>MAY 30, 1991</u> DATE FINISH: <u>MAY 30, 1991</u> DRILLER: <u>B. HAYES EDI</u> INSPECTOR: <u>D. HULL</u> GEOLOGIST: <u>K. DuBois</u>	
TYPE MFG. MODEL NO.	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
	SINGLE PACKER	TRIDENT	0-300 PSI	80 GAL.		
	PENNDRIILL	NEPTUNE	WEKSLER	HARVARD		
	[7 FT DIFFUSER]	34267257	GR2-D290-3KPA	STEEL TANK		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>48 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>100</u> RQD(%) <u>99</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>71.5 FT.</u> TO BOTTOM OF BORING <u>88.4 FT.</u> TO WATER TABLE <u>16.6 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>73.5 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>76.6 FT.</u> LENGTH OF TEST SECTION <u>11.8 FT.</u> <u>6.1 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
0945	0	131	16	4344.05	0.0	Head Loss = 0
0946	1	131	16	4344.05	0.0	
0947	2	131	16	4344.05	0.0	
0948	3	131	16	4344.05	0.0	
0949	4	131	16	4344.05	0.0	
0950	5	131	16	4344.05	0.0	
0951	6	131	16	4344.05	0.0	
0952	7	131	16	4344.05	0.0	
0953	8	131	16	4344.05	0.0	
0954	9	131	16	4344.05	0.0	
0955	10	131	16	4344.05	0.0	
0957	0	131	32	4344.05	0.0	Head Loss = 0
0958	1	131	32	4344.05	0.0	
0959	2	131	32	4344.05	0.0	
1000	3	131	32	4344.05	0.0	
1001	4	131	32	4344.05	0.0	
1002	5	131	32	4344.05	0.0	
1003	6	131	32	4344.05	0.0	
1004	7	131	32	4344.05	0.0	
1005	8	131	32	4344.05	0.0	
1006	9	131	32	4344.05	0.0	
1007	10	131	32	4344.05	0.0	
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WATER PRESSURE/PACKER TEST SCHEMATIC SINGLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 268 TO 282.7 FT. B.G.S.

BORING NUMBER: B126B
TEST NUMBER: 1
DATE: AUGUST 29, 1991
INSPECTOR: B. GIGLIOTTI



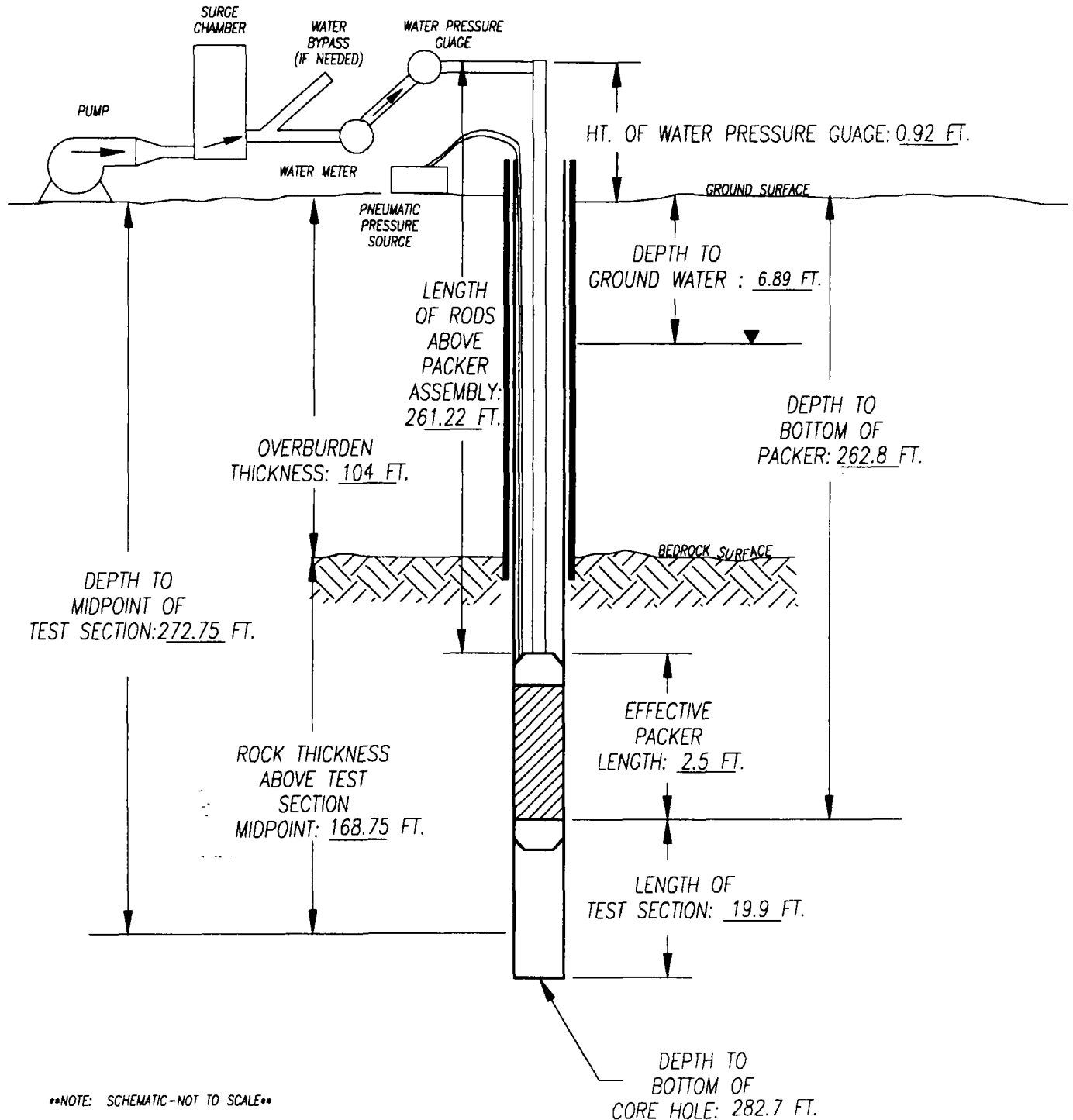
••NOTE: SCHEMATIC-NOT TO SCALE••

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WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 262.8 TO 282.7 FT. B.G.S.

BORING NUMBER: B126B
 TEST NUMBER: 2
 DATE: AUGUST 29, 1991
 INSPECTOR: B. GIGLIOTTI



NOTE: SCHEMATIC-NOT TO SCALE

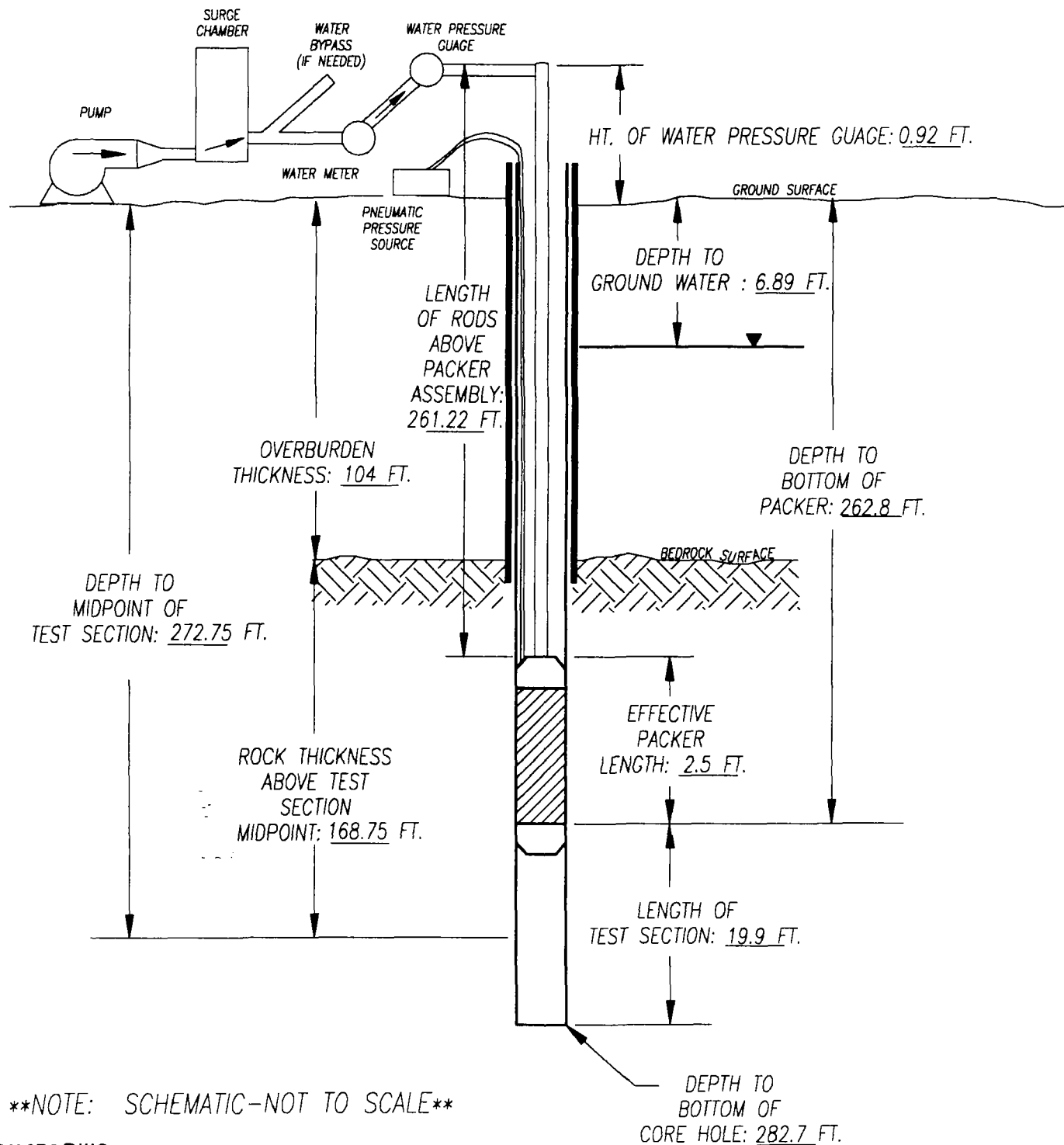
ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031				WATER PRESSURE TEST		HOLE NO. <u>B1268</u> TEST NO. <u>2</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>						FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan</u> ELEVATION: <u>695.55 FT.</u> DATE START: <u>AUGUST 29, 1991</u> DATE FINISH: <u>AUGUST 29, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER			
TYPE MFG. MODEL NO.	4X6 4IN. INFLAT PENNDRIILL NONE	TRIDENT NEPTUNE 34267257	0-300 PSI WEKSLER GR2-D290-3KPA	4 IN. SUB PUMP IN 500 GAL. WATER TANK			
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>166 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>85</u> RQD(%) <u>92</u>			
DEPTHS: (All Distances Measured from Ground Surface in Feet) TO TOP OF ROCK <u>104 FT.</u> TO TOP UPPER PACKER <u>260.4 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>262.8 FT.</u> TO WATER TABLE <u>6.89 FT.</u> LENGTH OF TEST SECTION <u>19.9 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>0.9 FT.</u> (READING OFF GAUGE FOLLOWING FLOW METER (NOT ON TOP OF WELL))							
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS	
1010	0	190	54	7995.0	0.0	Started water flow, lifted	
1011	1	190	56	8001.2	6.2	packer assembly up! Shut	
1012	2	190	56	8008.0	6.8	down reset packer. Upper	
1013	3	190	56	8014.5	6.5	packer pressure - good.	
1014	4	190	56	8021.0	6.5	Static water level in well	
1015	5	190	56.5	8027.2	6.2	steady. Restarted test.	
1016	6	190	56	8033.3	6.1	Head Loss = 3.8 FT.	
1017	7	190	56	8039.3	6.0		
1018	8	190	56.3	8045.2	5.9		
1019	9	190	56.5	8051.2	6.0		
1020	10	190	56	8057.0	5.8		
1050	0	250	108	8083.0	0.0	Water pressure up to 88 PSI	
1051	1	250	108	8089.3	6.3	packer lifting	
1052	2	250	108	8095.3	6.0	packer pressure increases to	
1053	3	250	109	8101.3	6.0	250 psi	
1054	4	250	108	8107.3	6.0	Head Loss = 3.5 FT.	
1055	5	250	108	8113.1	5.8		
1056	6	250	108	8119.1	6.0		
1057	7	250	108	8124.8	5.7		
1058	8	250	108	8130.5	5.7		
1059	9	250	108	8136.3	5.8	Water pressure at 116 psi	
1100	10	250	108	8142.1	5.8	blew packer	

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WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 262.8-282.7 B.G.S.

BORING NUMBER: B126B
 TEST NUMBER: 3
 DATE: AUGUST 29, 1991
 INSPECTOR: B. GIGLIOTTI



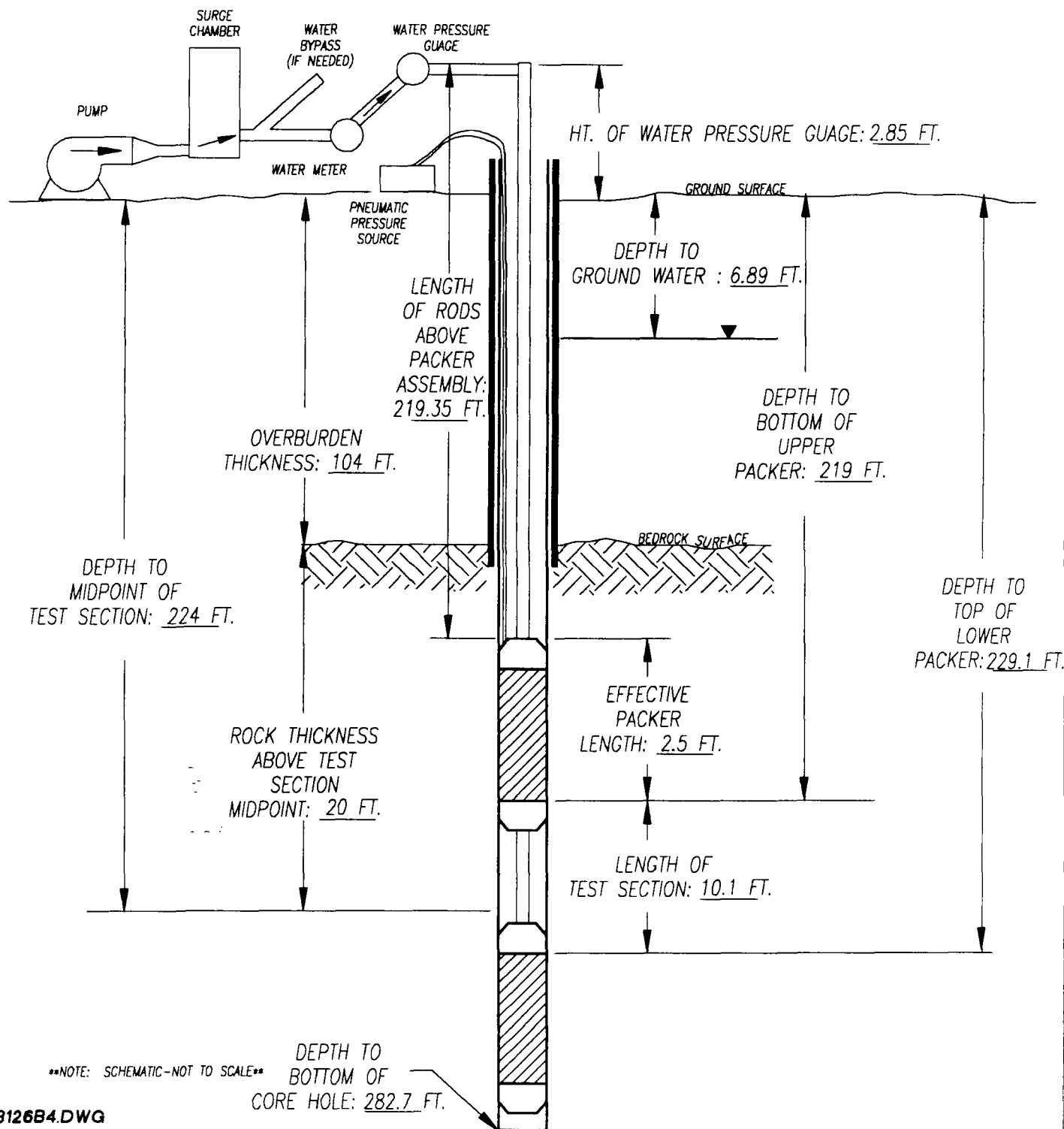
****NOTE: SCHEMATIC-NOT TO SCALE****

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WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 229.1-282.7 B.G.S.

BORING NUMBER: B126B
TEST NUMBER: 4
DATE: AUGUST 29, 1991
INSPECTOR: B. GIGLIOTTI



ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B126B</u> TEST NO. <u>4</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1</u> of <u>2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>695.55 FT.</u> DATE START: <u>AUGUST 29, 1991</u> DATE FINISH: <u>AUGUST 29, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	4X6 4IN. INFLAT	TRIDENT	0-300 PSI	4 IN. SUB PUMP		
	PENNDRIILL	NEPTUNE	WEKSLER	IN 500 GAL.		
	NONE	34267257	GR2-D290-3KPA	WATER TANK		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>132 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>95</u> ROD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>104 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO WATER TABLE <u>6.89 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>2.85</u> to water inlet, 15 IN. to gauge being read.				TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP LOWER PACKER <u>229.1 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>219 FT.</u> LENGTH OF TEST SECTION <u>10.1 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1540	0	190	44	8395.8	0.0	Head Loss = 0
1541	1	190	46	8395.9	0.1	
1542	2	190	44	8395.9	0.0	
1543	3	190	46	8396.0	0.1	
1544	4	190	46	8396.0	0.0	
1545	5	190	45	8396.1	0.1	
1546	6	190	46	8396.1	0.0	
1547	7	190	46	8396.1	0.0	
1548	8	190	48	8396.2	0.1	
1549	9	190	48	8396.2	0.0	
1550	10	190	48	8396.3	0.1	
1551	0	210	88	8396.4	0.0	Head Loss = 0
1552	1	210	85	8396.5	0.1	
1553	2	210	88	8396.5	0.0	
1554	3	215	88	8396.6	0.1	
1555	4	215	88	8396.7	0.1	
1556	5	215	88	8396.8	0.1	
1557	6	215	84	8396.9	0.1	
1558	7	215	88	8396.9	0.0	
1559	8	215	89	8397.0	0.1	
1600	9	215	89	8397.1	0.1	
1601	10	215	89	8397.1	0.0	

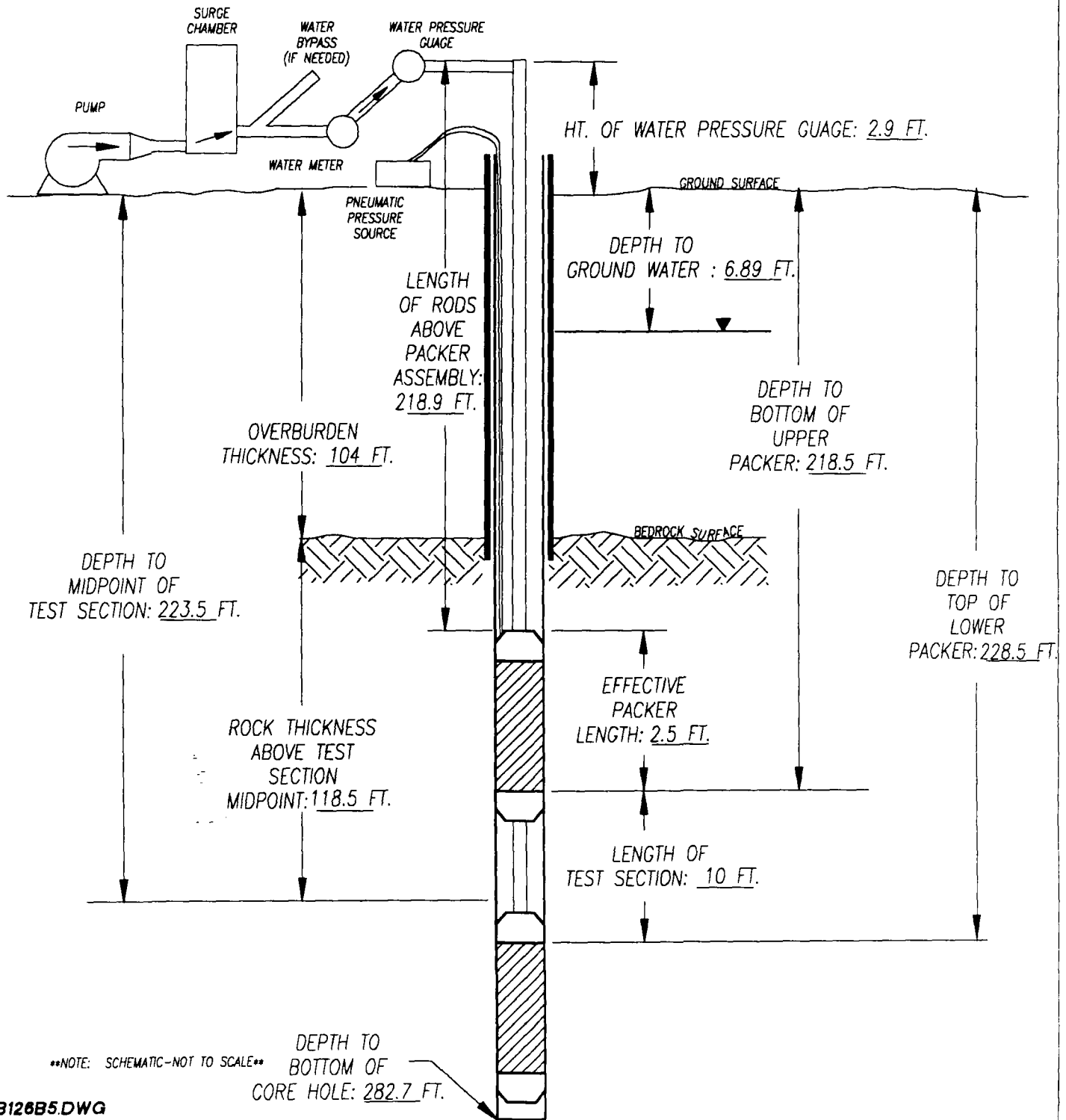
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WATER PRESSURE/PACKER TEST SCHEMATIC **DOUBLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 228.5-282.7 B.G.S.

BORING NUMBER: B126B
 TEST NUMBER: 5
 DATE: AUGUST 30, 1991
 INSPECTOR: B. GIGLIOTTI



ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B126B</u> TEST NO. <u>5</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 of 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>695.55 FT.</u> DATE START: <u>AUGUST 30, 1991</u> DATE FINISH: <u>AUGUST 30, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	4X6 4IN. INFLAT	TRIDENT	0-300 PSI	4 IN. SUB PUMP		
	PENNDRIILL	NEPTUNE	WEKSLER	IN 500 GAL.		
	NONE	34267257	GR2-D290-3KPA	WATER TANK		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>133 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>104 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO WATER TABLE <u>6.89 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>Water entering 2.9 FT., pressure guage = 0FT. (at grade following flow meter)</u>				TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP UPPER PACKER <u>228.5 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>218.5 FT.</u> LENGTH OF TEST SECTION <u>10.0 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
0856	0	190	36	8453.4	0.0	Will not try mgp due to
0857	1	195	34	8453.5	0.1	packer problems. Used
0858	2	195	38	8453.6	0.1	0.5 X Z = 112 PSI
0859	3	195	38	8453.7	0.1	1/3 = 37 PSI
0900	4	195	34	8453.7	0.0	2/3 = 75 PSI
0901	5	195	38	8453.8	0.1	MAX = 90
0902	6	195	38	8453.8	0.0	Head Loss = 0.00139 FT.
0903	7	195	38	8453.9	0.1	
0904	8	195	36	8453.9	0.0	
0905	9	195	36	8454.0	0.1	
0906	10	195	38	8454.0	0.0	
0909	0	195	74	8454.2	0.0	Head Loss = 0.0028 FT.
0910	1	200	77	8454.3	0.1	
0911	2	200	77	8454.4	0.1	
0912	3	200	77	8454.6	0.2	
0913	4	200	77	8454.7	0.1	
0914	5	200	77	8454.8	0.1	
0915	6	200	78	8454.9	0.1	
0916	7	200	74	8455.0	0.1	
0917	8	200	76	8455.1	0.1	
0918	9	200	76	8455.2	0.1	
0919	10	200	76	8455.3	0.1	

Form: h20press

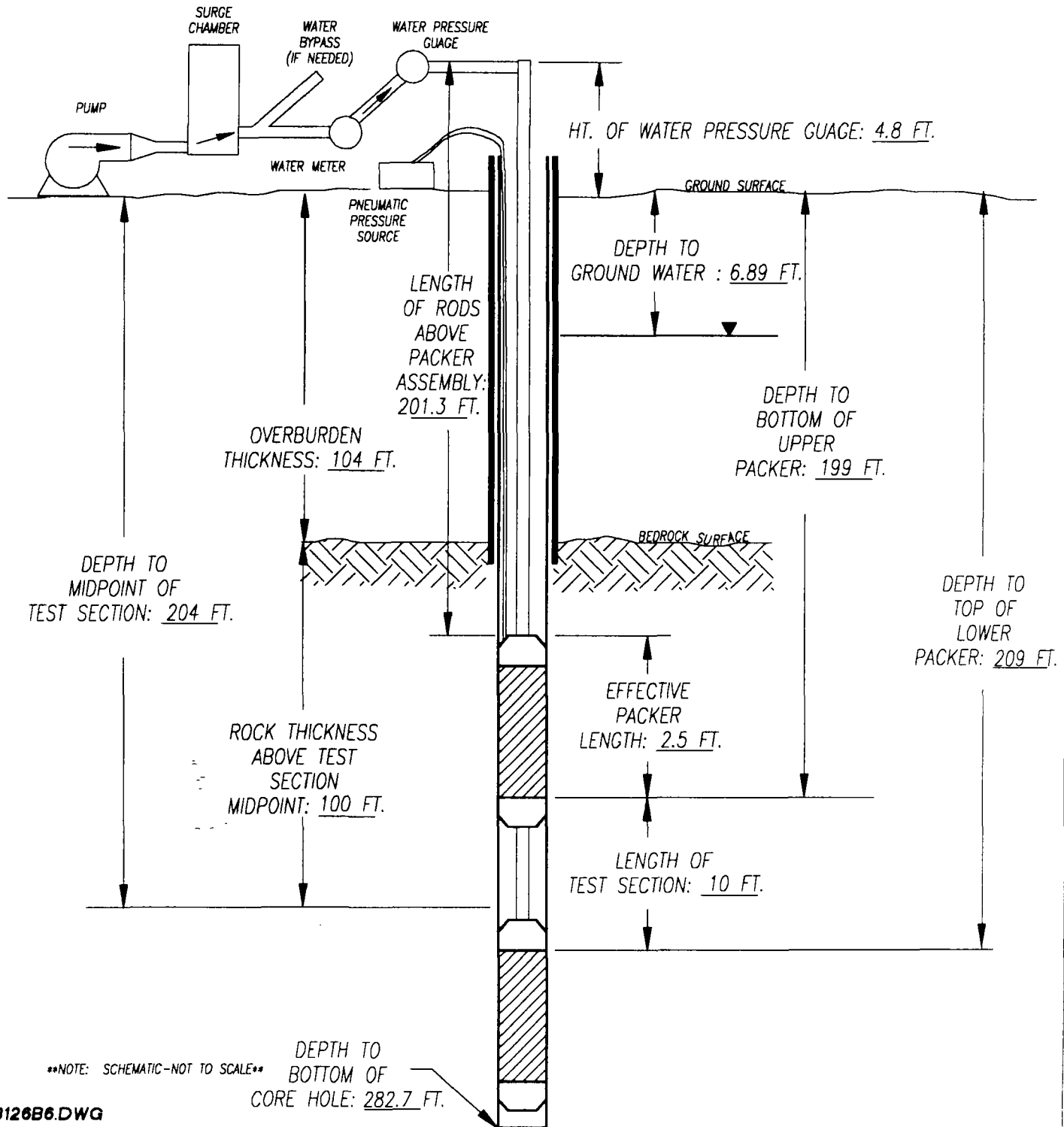
ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B126B</u> TEST NO. <u>5</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>2 of 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>695.55 FT.</u> DATE START: <u>AUGUST 30, 1991</u> DATE FINISH: <u>AUGUST 30, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	4X6 4IN. INFLAT	TRIDENT	0-300 PSI	4 IN. SUB PUMP		
	PENNDRIILL	NEPTUNE	WEKSER	IN 500 GAL.		
	NONE	34267257	GR2-D290-3KPA	WATER TANK		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>133 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>104 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO WATER TABLE <u>6.89 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>Water entering 2.9 FT., pressure guage = 0' at grade following flow meter</u>				TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP UPPER PACKER <u>228.5 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>218.5 FT.</u> LENGTH OF TEST SECTION <u>10.0 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
0923	0	210	90	8460.8	0.0	Head Loss = 1.1 FT.
0924	1	205	90	8464.3	3.5	
0925	2	205	90	8467.9	3.6	
0926	3	205	90	8471.5	3.6	
0927	4	205	90	8475.1	3.6	
0928	5	205	90	8478.7	3.6	
0929	6	205	90	8482.3	3.6	
0930	7	205	90	8485.9	3.6	
0931	8	205	92	8489.5	3.6	
0932	9	205	92	8493.0	3.5	
0933	10	205	92	8496.5	3.5	
0938	0	195	74	8501.6	0.0	Head Loss = 0.16 FT.
0939	1	195	74	8502.8	1.2	
0940	2	195	74	8504.0	1.2	
0941	3	195	74	8505.2	1.2	
0942	4	195	74	8506.4	1.2	
0943	5	195	74	8507.6	1.2	
0944	6	195	74	8508.8	1.2	
0945	7	195	74	8510.0	1.2	
0946	8	195	74	8511.2	1.2	
0947	9	195	74	8512.3	1.1	
0948	10	195	74	8513.5	1.2	
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WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 199-209 FT. B.G.S.

BORING NUMBER: B126B
TEST NUMBER: 6
DATE: AUGUST 30, 1991
INSPECTOR: B. GIGLIOTTI



NOTE: SCHEMATIC-NOT TO SCALE

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B1268</u> TEST NO. <u>6</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 of 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>695.55 FT.</u> DATE START: <u>AUGUST 30, 1991</u> DATE FINISH: <u>AUGUST 30, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	4X6 4IN. INFLAT	TRIDENT	0-300 PSI	4 IN. SUB PUMP		
	PENNDRIILL	NEPTUNE	WEKSLER	IN 500 GAL.		
	NONE	34267257	GR2-D290-3KPA	WATER TANK		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>126 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>SILICEOUS CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>97</u> RQD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>104 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO WATER TABLE <u>6.89 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>58 IN.</u> to water inlet, water meter 0 IN.					TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP UPPER PACKER <u>209 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>199 FT.</u> LENGTH OF TEST SECTION <u>10.0 FT.</u>	
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1030	0	190	38	8554.3	0.0	Will not try mgp due to
1031	1	200	38	8554.3	0.0	packer problems. Will use
1032	2	200	38	8554.3	0.0	a max. of 90 gauge pressure
1033	3	200	38	8554.3	0.0	- A known safe level
1034	4	200	38	8554.4	0.1	Head Loss = 0.00074 FT.
1035	5	200	38	8554.4	0.0	
1036	6	200	38	8554.5	0.1	
1037	7	200	38	8554.6	0.1	
1038	8	205	38	8554.7	0.1	
1039	9	205	38	8554.7	0.0	
1040	10	205	38	8554.7	0.0	
1041	0	200	77	8555.0	0.0	Head Loss = 0.0026 FT.
1042	1	200	78	8555.1	0.1	
1043	2	200	78	8555.2	0.1	
1044	3	200	78	8555.3	0.1	
1045	4	200	78	8555.4	0.1	
1046	5	200	78	8555.5	0.1	
1047	6	200	78	8555.6	0.1	
1048	7	200	78	8555.7	0.1	
1049	8	200	78	8555.8	0.1	
1050	9	200	78	8555.9	0.1	
1051	10	200	78	8556.0	0.1	
Form: h20press						

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B126B</u> TEST NO. <u>6</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>2 of 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>695.55 FT.</u> DATE START: <u>AUGUST 30, 1991</u> DATE FINISH: <u>AUGUST 30, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	4X6 4IN. INFLAT	TRIDENT	0-300 PSI	4 IN. SUB PUMP		
	PENNDRIILL	NEPTUNE	WEKSLER	IN 500 GAL.		
	NONE	34267257	GR2-D290-3KPA	WATER TANK		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>126 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>SILICEOUS & CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>97</u> RQD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>104 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO WATER TABLE <u>6.89 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>58 IN.</u> to water inlet, water meter 0 IN.				TEST CONFIGURATION: <u>DOUBLE PACKER</u> TO TOP UPPER PACKER <u>209 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>199 FT.</u> LENGTH OF TEST SECTION <u>10.0 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1056	0	200	90	8562.0	0.0	Flow probably due to packer
1057	1	200	90	8569.1	7.1	leakage. As packer pressure
1058	2	205	90	8576.2	7.1	was increased, flow dropped
1059	3	205	90	8582.4	6.2	(did not dare try any high
1100	4	205	90	8587.2	4.8	pressure)
1101	5	205	90	8591.1	3.9	Head Loss = 1.5 FT.
1102	6	208	90	8594.3	3.2	
1103	7	210	90	8597.3	3.0	
1104	8	210	90	8600.2	2.9	
1105	9	210	90	8603.2	3.0	
1106	10	210	90	8605.4	2.4	
1107	0	210	78	8606.7	0.0	Head Loss = 0.0013 FT.
1108	1	210	78	8606.7	0.0	
1109	2	210	78	8606.8	0.1	
1110	3	210	78	8606.8	0.0	
1111	4	210	78	8606.9	0.1	
1112	5	210	78	8607.0	0.1	
1113	6	205	78	8607.0	0.0	
1114	7	205	78	8607.1	0.1	
1115	8	205	78	8607.2	0.1	
1116	9	205	78	8607.2	0.0	
1117	10	205	78	8607.3	0.1	

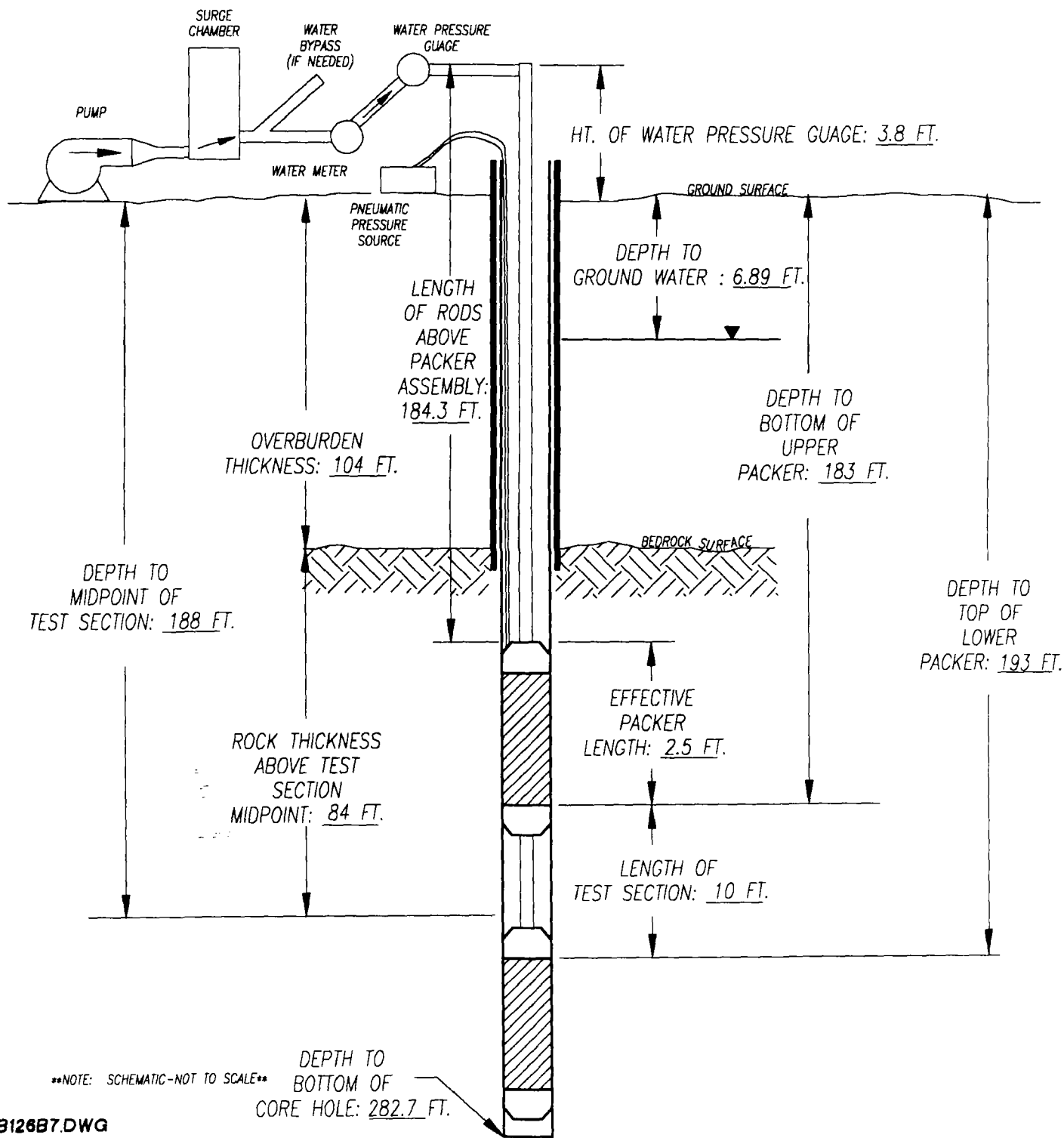
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WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 183-193 FT. B.G.S.

BORING NUMBER: B126B
TEST NUMBER: 7
DATE: AUGUST 30, 1991
INSPECTOR: B. GIGLIOTTI



ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B126B</u> TEST NO. <u>7</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 of 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>695.55 FT.</u> DATE START: <u>AUGUST 30, 1991</u> DATE FINISH: <u>AUGUST 30, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	<u>4X6 4IN. INFLAT</u> <u>PENNDRIILL</u> <u>NONE</u>	<u>TRIDENT</u> <u>NEPTUNE</u> <u>34267257</u>	<u>0-300 PSI</u> <u>WEKSLER</u> <u>GR2-D290-3KPA</u>	<u>4 IN. SUB PUMP</u> <u>IN 500 GAL.</u> <u>WATER TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>108 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>100</u> ROD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>104 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO WATER TABLE <u>6.89 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>46 IN.</u>				TEST CONFIGURATION <u>DOUBLE PACKER</u> TO TOP UPPER PACKER <u>193 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>183 FT.</u> LENGTH OF TEST SECTION <u>10.0 FT.</u> <u>to water inlet, gauge at 0 IN.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1043	0	200	35	8653.2	0.0	Will not try for mgp due to
1044	1	200	36	8653.9	0.7	packer problems. Will use
1045	2	200	36	8654.6	0.7	a top pressure of 90 - A
1046	3	200	36	8655.4	0.8	known safe pressure
1047	4	200	36	8656.1	0.7	Head Loss = 0.061 FT.
1048	5	200	36	8656.9	0.8	
1049	6	200	36	8657.6	0.7	
1050	7	200	36	8658.4	0.8	
1051	8	200	36	8659.2	0.8	
1052	9	200	36	8660.0	0.8	
1053	10	200	36	8660.9	0.9	
1100	0	205	72	8663.0	0.0	Head Loss = 0.055 FT.
1101	1	205	72	8665.5	2.5	
1102	2	205	72	8668.2	2.7	
1103	3	205	72	8671.0	2.8	
1104	4	205	72	8673.8	2.8	
1105	5	205	72	8676.6	2.8	
1106	6	205	72	8679.2	2.6	
1107	7	205	72	8681.9	2.7	
1108	8	205	72	8684.6	2.7	
1109	9	205	72	8687.4	2.8	
1110	10	205	72	8690.1	2.7	
* Time was not reported, these were approximate times based on field notebook.						
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ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B126B</u> TEST NO. <u>7</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>2 of 3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>695.55 FT.</u> DATE START: <u>AUGUST 30, 1991</u> DATE FINISH: <u>AUGUST 30, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE	<u>4X6 4IN. INFLAT</u>	<u>TRIDENT</u>	<u>0-300 PSI</u>	<u>4 IN. SUB PUMP</u>		
MFG.	<u>PENNDRIILL</u>	<u>NEPTUNE</u>	<u>WEKSLER</u>	<u>IN 500 GAL.</u>		
MODEL NO.	<u>NONE</u>	<u>34267257</u>	<u>GR2-D290-3KPA</u>	<u>WATER TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>108 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>104 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO WATER TABLE <u>6.89 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>46 IN.</u> to water inlet, gauge at 0 IN.				TEST CONFIGURATION <u>DOUBLE PACKER</u> TO TOP UPPER PACKER <u>193 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>183 FT.</u> LENGTH OF TEST SECTION <u>10.0 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1214	0	215	90	8707.0	0.0	Head Loss = 1.5 FT.
1215	1	215	90	8714.8	7.8	
1216	2	215	90	8722.4	7.6	
1217	3	215	90	8727.8	5.4	
1218	4	215	90	8732.5	4.7	Packer rose a 1/2"
1219	5	215	90	8737.3	4.8	
1220	6	215	88	8741.4	4.1	
1221	7	215	88	8745.5	4.1	
1222	8	215	88	8749.6	4.1	
1223	9	215	88	8753.7	4.1	
1224	10	215	88	8757.8	4.1	
1225	0	210	70	8759.0	0.0	Head Loss = 0.052 FT.
1226	1	210	70	8759.9	0.9	
1227	2	210	70	8760.8	0.9	
1228	3	210	70	8761.5	0.7	
1229	4	210	70	8762.2	0.7	
1230	5	210	70	8762.9	0.7	
1231	6	210	70	8763.6	0.7	
1232	7	210	70	8764.3	0.7	
1233	8	210	70	8765.0	0.7	
1234	9	210	70	8765.6	0.6	
1235	10	210	70	8766.3	0.7	

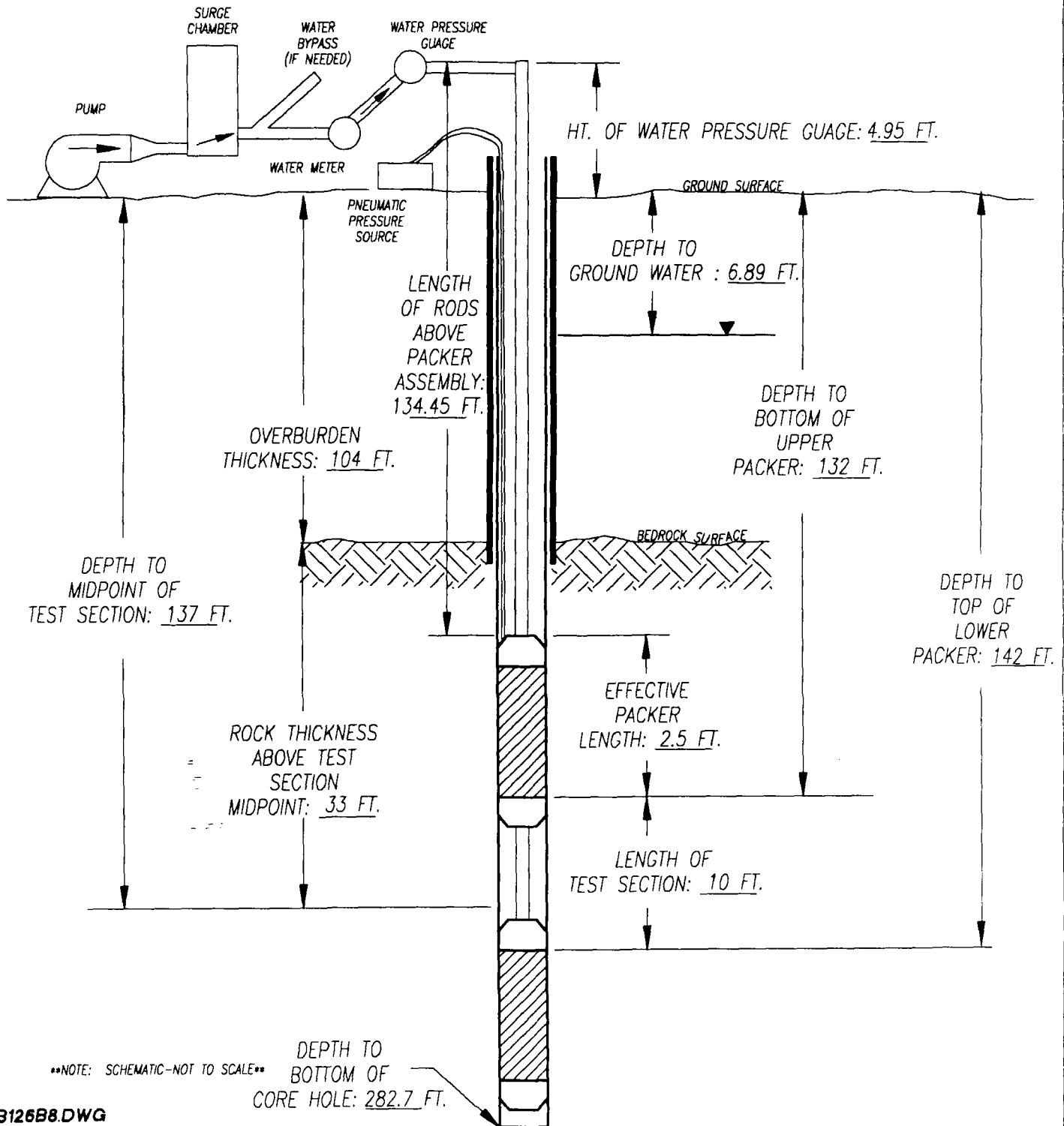
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WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 132-142 FT. B.G.S.

BORING NUMBER: B126B
TEST NUMBER: 8
DATE: AUGUST 30, 1991
INSPECTOR: B. GIGLIOTTI



ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B1268</u> TEST NO. <u>8</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 of 2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>655.55 FT.</u> DATE START: <u>AUGUST 30, 1991</u> DATE FINISH: <u>AUGUST 30, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	4X6 4IN. INFLAT	TRIDENT	0-300 PSI	4 IN. SUB PUMP		
	PENNDRILL	NEPTUNE	WEKSLER	IN 500 GAL.		
	NONE	34267257	GR2-D290-3KPA	WATER TANK		

M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>71</u> PSI COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>	ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>63</u> ROD(%) <u>67</u>
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DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>104 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO WATER TABLE <u>6.89 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>59.5 IN.</u> to water inlet, 0 IN. gauge HT.	TEST CONFIGURATION <u>DOUBLE PACKER</u> TO TOP UPPER PACKER <u>142 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>132 FT.</u> LENGTH OF TEST SECTION <u>10.0 FT.</u>
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TIME *	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1313	0	190	24	8792.0	0.0	Head Loss = 0.00022 FT.
1314	1	190	24	8792.1	0.1	
1315	2	190	24	8792.1	0.0	
1316	3	200	24	8792.2	0.1	
1317	4	200	24	8792.2	0.0	
1318	5	200	24	8792.2	0.0	
1319	6	200	24	8792.2	0.0	
1320	7	200	24	8792.2	0.0	
1321	8	200	24	8792.2	0.0	
1322	9	200	24	8792.2	0.0	
1323	10	200	24	8792.2	0.0	
1325	0	200	47	8792.5	0	Head Loss = 0
1326	1	200	47	8792.5	0	
1327	2	200	47	8792.5	0	
1328	3	200	47	8792.5	0	
1329	4	200	47	8792.5	0	
1330	5	200	47	8792.5	0	
1331	6	200	47	8792.5	0	
1332	7	200	47	8792.5	0	
1333	8	200	47	8792.5	0	
1334	9	200	47	8792.5	0	
1335	10	200	47	8792.5	0	

* Time was not recorded, these are approximate time based on field notebook.

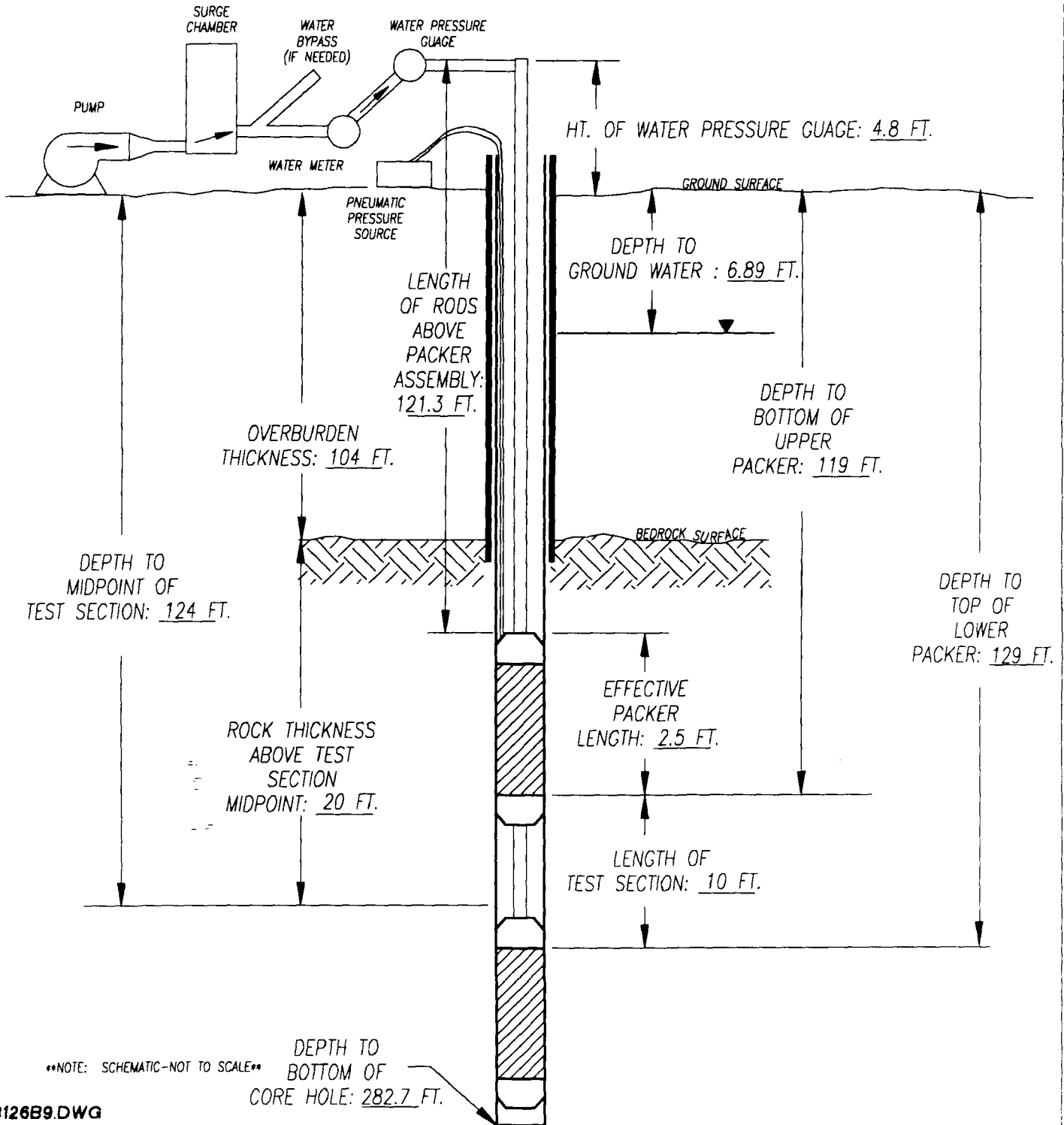
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WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 119-129 FT. B.G.S.

BORING NUMBER: B126B
TEST NUMBER: 9
DATE: AUGUST 29, 1991
INSPECTOR: B. GIGLIOTTI



ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B126B</u> TEST NO. <u>9</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 OF 2</u> LOCATION: <u>See Plan</u> ELEVATION: _____ DATE START: <u>AUGUST 29, 1991</u> DATE FINISH: <u>AUGUST 29, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	4X6 4IN. INFLAT PENNDRIILL	TRIDENT NEPTUNE 34267257	0-300 PSI WEKSLER GR2-D290-3KPA	4 IN. SUB PUMP IN 500 GAL. WATER TANK		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>58</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>PHYLLITE AND LIMESTONE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface in Feet) TO TOP OF ROCK <u>104 FT.</u> TO TOP UPPER PACKER <u>129 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>119 FT.</u> TO WATER TABLE <u>6.89 FT.</u> LENGTH OF TEST SECTION <u>10.0 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>58 IN.</u> TO WATER INLET, 0 IN. TO GAUGE.						
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
0200	0	190	19	8817.1	0.0	Head Loss = 0
	1	190	19	8817.1	0.0	
	2	190	19	8817.1	0.0	
	3	190	19	8817.1	0.0	
	4	190	19	8817.1	0.0	
	5	190	19	8817.1	0.0	
	6	190	19	8817.1	0.0	
	7	190	19	8817.1	0.0	
	8	190	19	8817.1	0.0	
	9	190	19	8817.1	0.0	
	10	190	19	8817.1	0.0	
	0	190	38	8817.5	0.0	Head Loss = 0.000315 FT.
	1	190	38	8817.5	0.0	
	2	190	38	8817.5	0.0	
	3	190	38	8817.6	0.0	
	4	190	38	8817.6	0.0	
	5	185	38	8817.6	0.0	
	6	185	38	8817.7	0.0	
	7	185	38	8817.7	0.0	
	8	185	38	8817.7	0.0	
	9	185	38	8817.8	0.0	
	10	185	38	8817.8	0.0	
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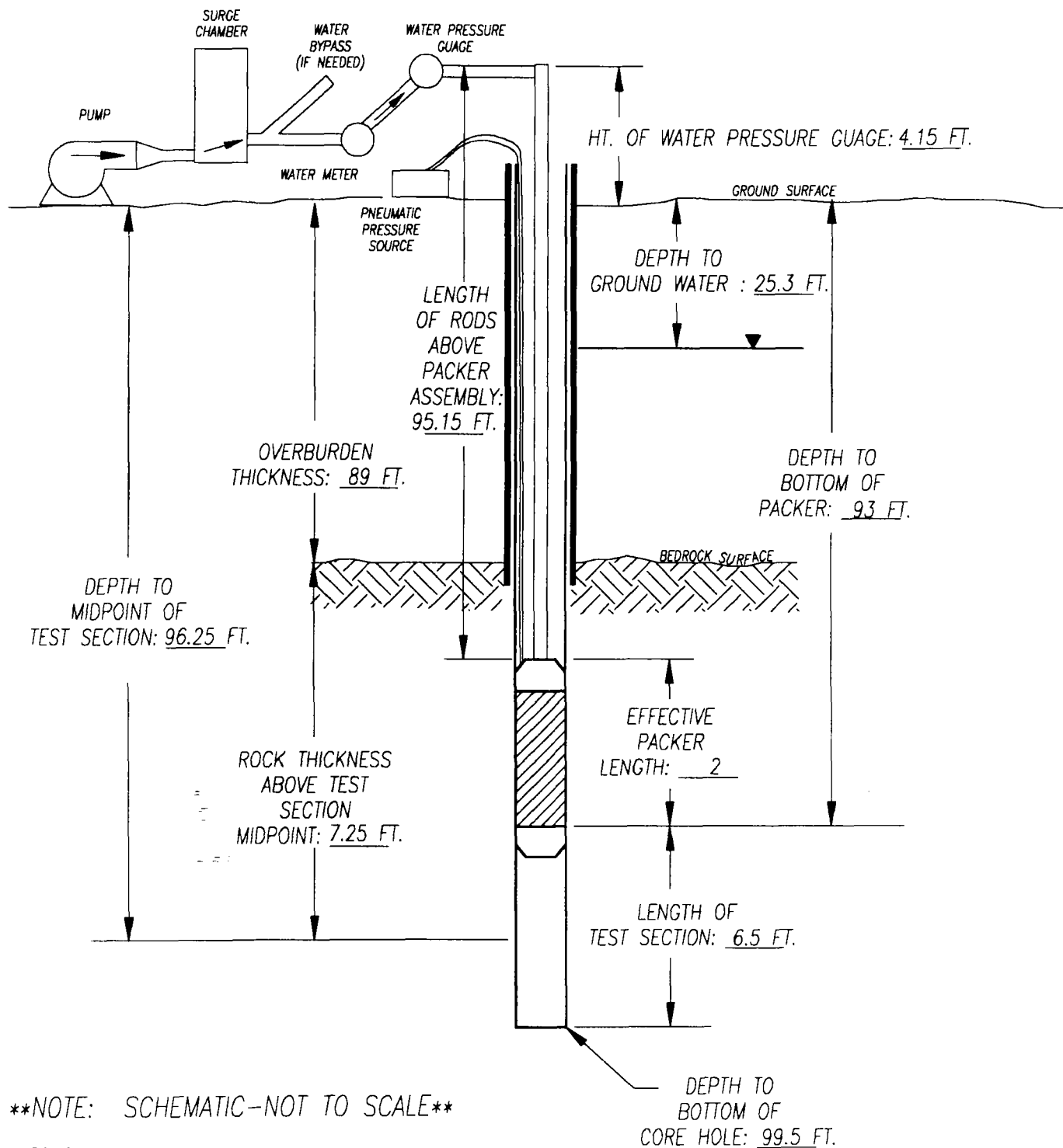
ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B126B</u> TEST NO. <u>9</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>2 OF 2</u> LOCATION: <u>See Plan</u> ELEVATION: _____ DATE START: <u>AUGUST 29, 1991</u> DATE FINISH: <u>AUGUST 29, 1991</u> DRILLER: <u>B. CUSHING</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	4X6 4IN. INFLAT	TRIDENT	0-300 PSI	4 IN. SUB PUMP		
	PENNDRIILL	NEPTUNE	WEKSLER	IN 500 GAL.		
		34267257	GR2-D290-3KPA	WATER TANK		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>58</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>PHYLLITE AND LIMESTONE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>100</u>		
DEPTHS: (All Distances Measured from Ground Surface in Feet) TO TOP OF ROCK <u>104 FT.</u> TO TOP UPPER PACKER <u>129 FT.</u> TO BOTTOM OF BORING <u>282.7 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>119 FT.</u> TO WATER TABLE <u>6.89 FT.</u> LENGTH OF TEST SECTION <u>10.0 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>58 IN.</u> TO WATER INLET, 0 IN. TO GAUGE.						
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
	0	187	58	8818.0	0.0	Head Loss = 0.00045 FT.
	1	187	58	8818.1	0.1	
	2	187	58	8818.1	0.0	
	3	187	58	8818.1	0.0	
	4	187	58	8818.2	0.1	
	5	187	58	8818.2	0.0	
	6	187	58	8818.2	0.0	
	7	187	58	8818.3	0.1	
	8	187	58	8818.4	0.1	
	9	187	58	8818.4	0.0	No take - test stopped 2:35
	10	187	58	8818.4	0.0	
	0					
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

Form: h20press

WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 93-99.5 FT. B.G.S.

BORING NUMBER: B127C
 TEST NUMBER: 1
 DATE: JULY 15, 1991
 INSPECTOR: B. GIGLIOTTI



****NOTE: SCHEMATIC-NOT TO SCALE****

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. ONE OVERLOOK DRIVE UNIT 16 AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B127C</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>CUSHING & SONS</u>					FILE NO. <u>490 5024.0060</u> SHEET NO. <u>1 OF 2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>695.99</u> DATE START: <u>JULY 15, 1991</u> DATE FINISH: <u>JULY 15, 1991</u> DRILLER: <u>B. HAYES</u> INSPECTOR: <u>B. GIGLIOTTI</u> GEOLOGIST: <u>K. DuBois</u>	
	PACKER SYSTEM	WATER METER	PRESSURE GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	<u>SINGLE PACKER</u>	<u>TRIDENT</u>	<u>0-300 PSI</u>	<u>80 GAL.</u>		
	<u>PENNDRIILL</u>	<u>NEPTUNE</u>	<u>WEKSLER</u>	<u>HARVARD</u>		
	<u>[7 FT DIFFUSER]</u>	<u>34267257</u>	<u>GR2-D290-3KPA</u>	<u>STEEL TANK</u>		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MPG) <u>42 PSI</u> COMPUTED INTERNAL FRICTION: <u>SEE REMARKS</u>				ROCK TYPE: <u>SILICEOUS PHYLLITE</u> HOLE SIZE <u>NX</u> RECOVERY(%) <u>100</u> RQD(%) <u>84</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>89 FT.</u> TO BOTTOM OF BORING <u>99.0 FT.</u> TO WATER TABLE <u>25.3 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>4.15 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP UPPER PACKER <u>91 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>93 FT.</u> LENGTH OF TEST SECTION <u>6.0 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1426	0	208	14	7465.5	0	Head Loss = 0
1427	1	208	14	7465.5	0	
1428	2	208	14	7465.5	0	
1429	3	208	14	7465.5	0	
1430	4	208	14	7465.5	0	
1431	5	208	14	7465.5	0	
1432	6	208	14	7465.5	0	
1433	7	208	14	7465.5	0	
1434	8	208	14	7465.5	0	
1435	9	208	14	7465.5	0	
1436	10	208	14	7465.5	0	
1437	0	205	28	7465.5	0	Head Loss = 0
1438	1	205	28	7465.5	0	
1439	2	205	28	7465.5	0	
1440	3	205	28	7465.5	0	
1441	4	205	28	7465.5	0	
1442	5	205	28	7465.5	0	
1443	6	205	28	7465.5	0	
1444	7	205	28	7465.5	0	
1445	8	205	28	7465.5	0	
1446	9	205	28	7465.5	0	
1447	10	205	28	7465.5	0	

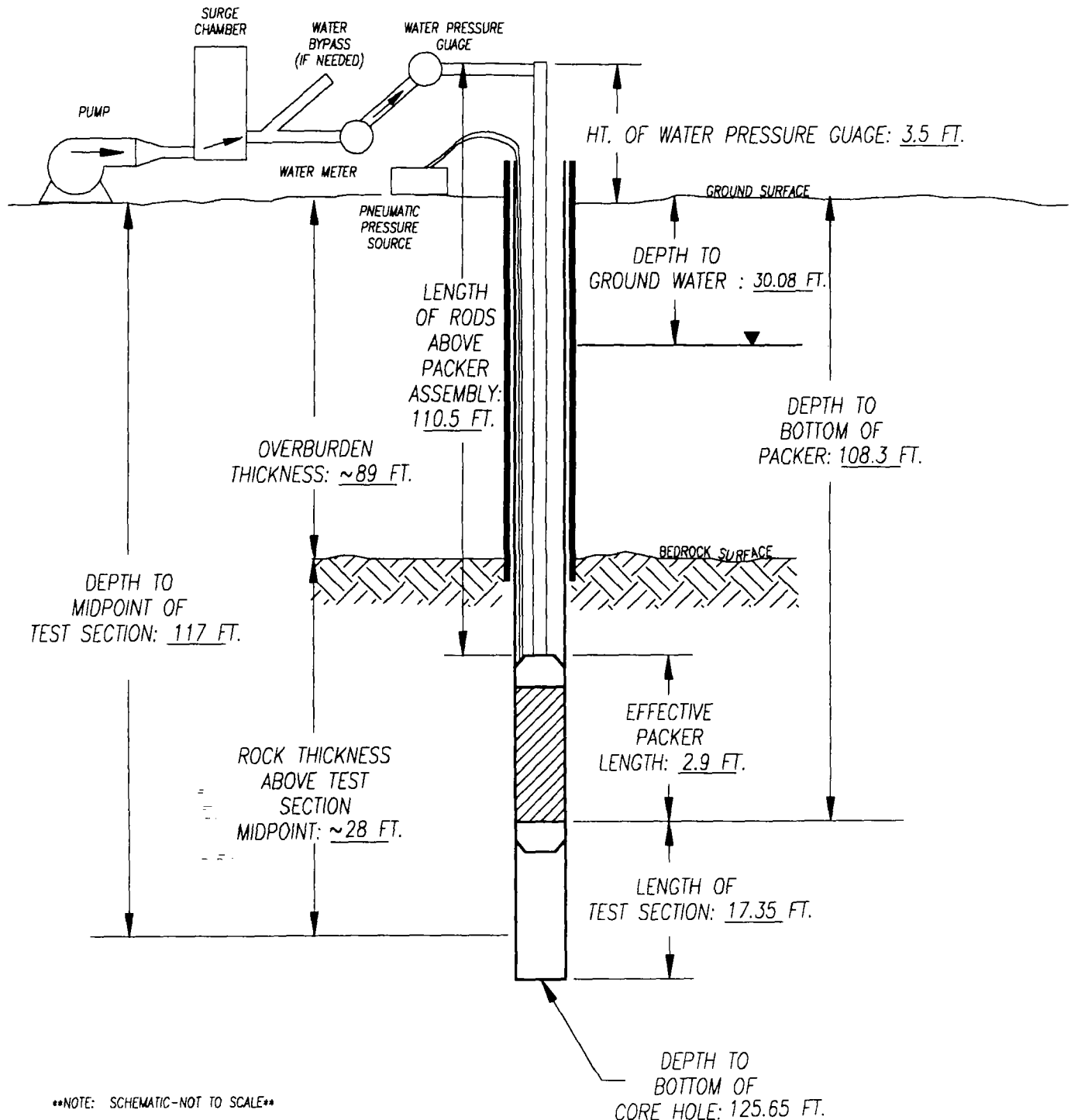
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WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 108.3-125.65 FT. B.G.S.

BORING NUMBER: B127D
 TEST NUMBER: 1
 DATE: AUGUST 28, 1992
 INSPECTOR: J. BANNON



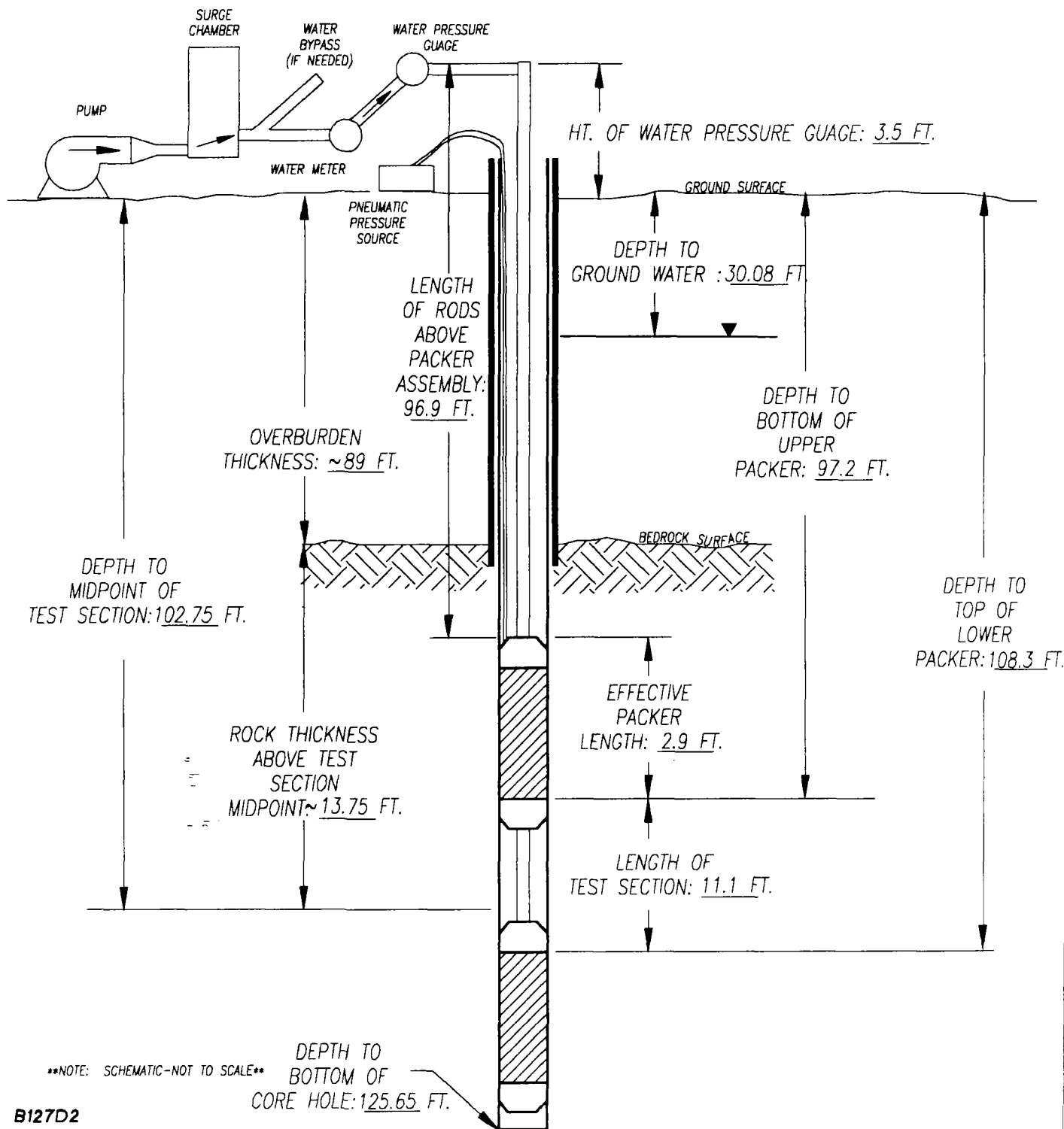
••NOTE: SCHEMATIC-NOT TO SCALE••

[illegible]

WATER PRESSURE/PACKER TEST SCHEMATIC **DOUBLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 97.2-108.3 FT. B.G.S.

BORING NUMBER: B127D
 TEST NUMBER: 2
 DATE: AUGUST 19, 1992
 INSPECTOR: J. BANNON



B127D2

REV 6/92

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B127D</u> TEST NO. <u>2</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan, CURRAN SUPPLY WELL</u> ELEVATION: <u>701.6 FT.</u> DATE START: <u>AUGUST 20, 1992</u> DATE FINISH: <u>AUGUST 20, 1992</u> DRILLER: <u>W. MITCHELL</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
TYPE MFG. MODEL NO.	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
	PNEUMATIC	DIGITAL	ANALOG	PRESS. TANK		
	PENNDRILL	NEPTUNE	WEKSLER	UNKNOWN		
	NONE	34267257	NONE	NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>51 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>UNKNOWN</u> RQD(%) <u>UNKNOWN</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>APPROXIMATELY 89 FT.</u> TO BOTTOM OF BORING <u>125.65 FT.</u> TO WATER TABLE <u>30.08 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.5 FT.</u>				TEST CONFIGURATION: <u>DOUBLE PACKER (TESTING WELL SEAL)</u> TO TOP LOWER PACKER <u>108.3 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>97.2 FT.</u> LENGTH OF TEST SECTION <u>11.1 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1622	0	100	4	991.8	0.0	Head Loss = 0.0
1623	1	100	4	992.4	0.6	
1624	2	100	4	992.8	0.4	
1625	3	100	4	993.2	0.4	
1626	4	100	4	993.5	0.3	
1627	5	100	4	993.9	0.4	
1628	6	100	4	994.3	0.4	
1629	7	100	4	994.5	0.3	
1630	8	100	4	994.6	0.1	
1631	9	100	4	994.7	0.1	
1632	10	100	4	995.6	0.1	
1640	0	100	34	995.6	0.0	Head Loss = 0.0
1641	1	100	34	996.0	0.4	
1642	2	100	34	996.4	0.4	
1643	3	100	34	997.0	0.6	
1644	4	100	34	997.5	0.5	
1645	5	100	34	998.5	1.0	
1646	6	100	34	999.6	1.1	
1647	7	100	34	1001.6	2.0	
1648	8	100	34	1003.7	2.1	PIPES BEGAN TO LEAK STOPPED
						TEST

Form: h20press

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B127D</u> TEST NO. <u>2</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>2</u> LOCATION: <u>See Plan, CURRAN SUPPLY WELL</u> ELEVATION: <u>701.6 FT.</u> DATE START: <u>AUGUST 20, 1992</u> DATE FINISH: <u>AUGUST 20, 1992</u> DRILLER: <u>W. MITCHELL</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC PENNDRILL NONE	DIGITAL NEPTUNE 34267257	ANALOG WEKSLER NONE	PRESS. TANK UNKNOWN NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>51 FT.</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>UNKNOWN</u> RQD(%) <u>UNKNOWN</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>APPROXIMATELY 89 FT.</u> TO BOTTOM OF BORING <u>125.65 FT.</u> TO WATER TABLE <u>30.08 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.5 FT.</u>				TEST CONFIGURATION: <u>DOUBLE PACKER (TESTING WELL SEAL)</u> TO TOP LOWER PACKER <u>108.3 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>97.2 FT.</u> LENGTH OF TEST SECTION <u>11.1 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1656	0	100	51	1016.1	0.0	OBSERVED SEVERAL LEAKS IN THE PLUMBING. TIGHTENED CONNECTIONS BUT SUSPECT POOR PACKER-BOREHOLE SEAL. WILL INCREASE PACKER PRESSURE TO 140 PSI AND START TEST AGAIN
1657	1	100	51	1019.8	3.7	
1658	2	100	51	1023.7	3.9	
1659	3	100	51	1028.0	4.3	
1700	4	100	51	1036.0	8.0	Head Loss = 0.0
1706	0	100	51	1044.6	0.0	Head Loss = 0.0
1707	1	100	51	1044.6	0.0	
1708	2	100	51	1044.6	0.0	
1709	3	100	51	1044.6	0.0	
1710	4	100	51	1044.6	0.0	
1711	5	100	51	1044.6	0.0	
1712	6	100	51	1044.6	0.0	
1713	7	100	51	1044.6	0.0	
1714	8	100	51	1044.6	0.0	
1715	9	100	51	1044.6	0.0	
1716	10	100	51	1044.6	0.0	

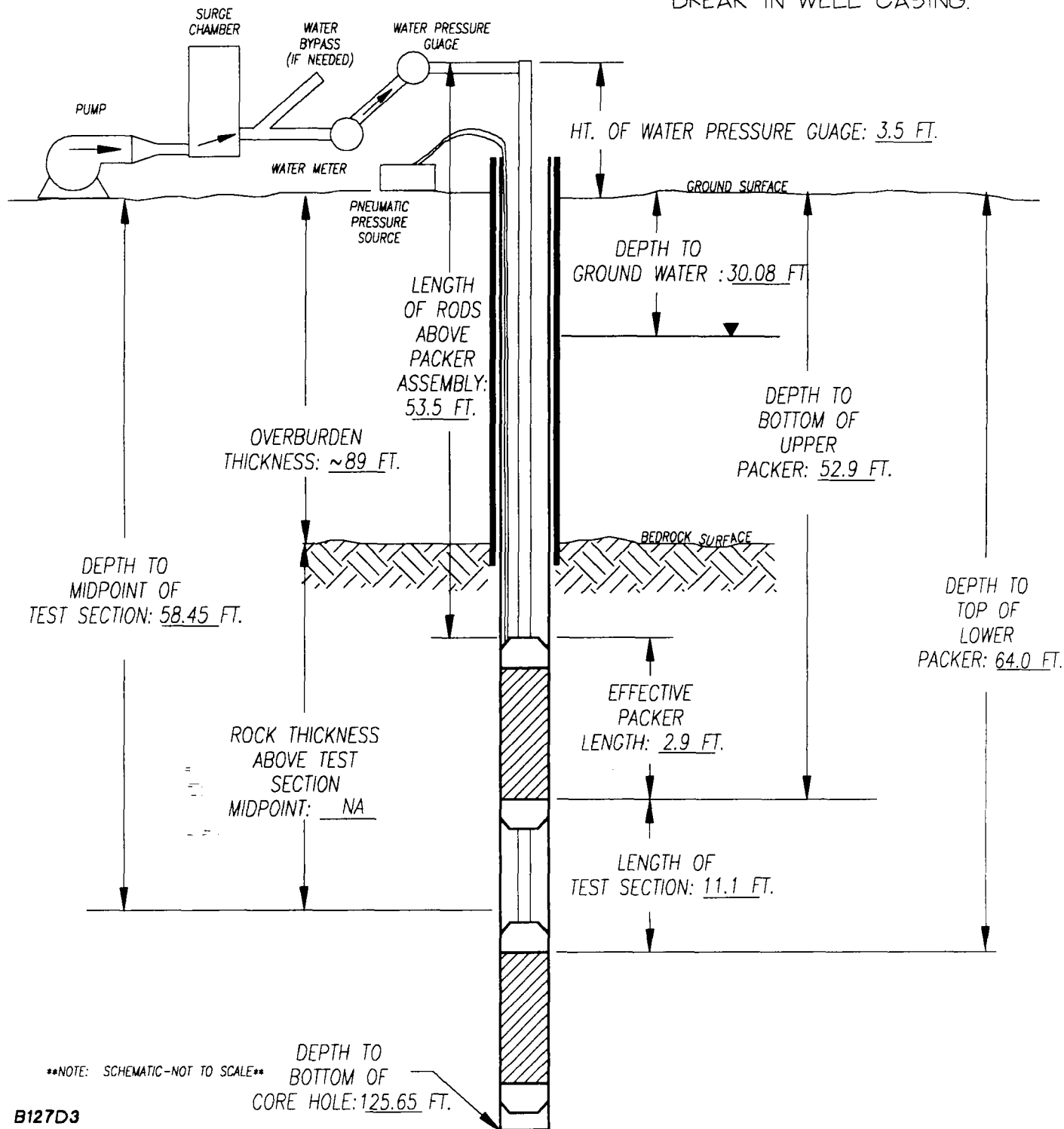
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WATER PRESSURE/PACKER TEST SCHEMATIC **DOUBLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 52.9-64.0 FT. B.G.S.

BORING NUMBER: B127D (CURRAN WELL)
 TEST NUMBER: 3
 DATE: AUGUST 20, 1992
 INSPECTOR: J. BANNON

NOTE: TESTING POTENTIAL
 BREAK IN WELL CASING.



B127D3

REV 8/92

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B127D</u> TEST NO. <u>3</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan, CURRAN SUPPLY WELL</u> ELEVATION: <u>701.6 FT.</u> DATE START: <u>AUGUST 20, 1992</u> DATE FINISH: <u>AUGUST 20, 1992</u> DRILLER: <u>W. MITCHELL</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC	DIGITAL	ANALOG	PRESS. TANK		
	PENNDRIILL	NEPTUNE	WEKSLER	UNKNOWN		
	NONE	34267257	NONE	NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>29.2 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>6 IN.</u> RECOVERY(%) <u>UNKNOWN</u> RQD(%) <u>UNKNOWN</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>APPROXIMATELY 89 FT.</u> TO BOTTOM OF BORING <u>125.65 FT.</u> TO WATER TABLE <u>30.08 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.5 FT.</u>				TEST CONFIGURATION: <u>DOUBLE PACKER (TESTING CASING)</u> TO TOP LOWER PACKER <u>64.0 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>52.9 FT.</u> LENGTH OF TEST SECTION <u>11.1 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
0927	0	100	10	1079.3	0.0	Head Loss = 0.0
0928	1	100	10	1079.3	0.0	
0929	2	100	10	1079.3	0.0	
0930	3	100	10	1079.3	0.0	
0931	4	100	10	1079.3	0.0	
0932	5	100	10	1079.3	0.0	
0933	6	100	10	1079.3	0.0	
0934	7	100	10	1079.3	0.0	
0935	8	100	10	1079.3	0.0	
0936	9	100	10	1079.3	0.0	
0937	10	100	10	1079.3	0.0	
0938	0	100	19	1080.7	0.0	Head Loss = 0.0
0939	1	100	19	1080.8	0.1	
0940	2	100	19	1080.8	0.0	
0941	3	100	19	1080.8	0.0	
0942	4	100	19	1080.8	0.0	
0943	5	100	19	1080.8	0.0	
0944	6	100	19	1080.8	0.0	
0945	7	100	19	1080.8	0.0	
0946	8	100	19	1080.8	0.0	
0947	9	100	19	1080.8	0.0	
0948	10	100	19	1080.8	0.0	

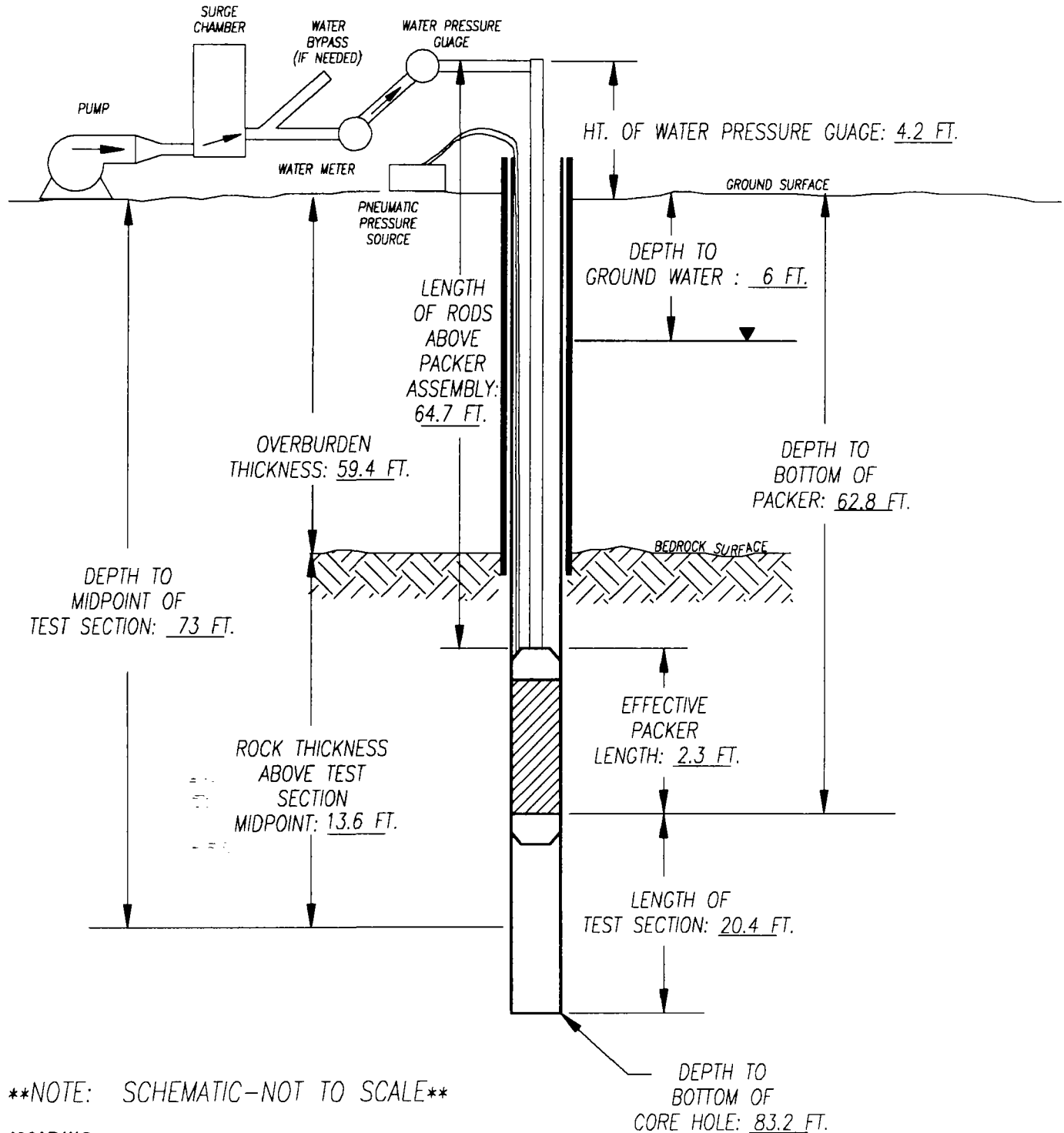
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WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 62.8-83.2 FT. B.G.S.

BORING NUMBER: 132
 TEST NUMBER: 1
 DATE: JUNE 6, 1992
 INSPECTOR: J. BANNON



****NOTE: SCHEMATIC-NOT TO SCALE****

1321.DWG

REV. 8/92

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B132</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan</u> ELEVATION: <u>728.40 FT.</u> DATE START: <u>JUNE 19, 1992</u> DATE FINISH: <u>JUNE 19, 1992</u> DRILLER: <u>S. LAMARSHE</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC AARDVARK NONE	DIGITAL NEPTUNE 35508375	ANALOG HARVARD NONE	IN-LINE DAMPER EDI, INC. NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>50 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>3 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>98</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>59.4 FT.</u> TO BOTTOM OF BORING <u>83.2 FT.</u> TO WATER TABLE <u>6.0 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>4.2 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP LOWER PACKER <u>NA</u> - BOTTOM OF TEST ZONE = <u>83.2 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>62.8 FT.</u> LENGTH OF TEST SECTION <u>20.4 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1246	0	150	17	774.6	0.0	Head Loss = 0.0
1247	1	150	17	774.6	0.0	
1248	2	150	17	774.6	0.0	
1249	3	150	17	774.6	0.0	
1250	4	150	17	774.6	0.0	
1251	5	150	17	774.6	0.0	
1252	6	150	17	774.6	0.0	
1253	7	150	17	774.6	0.0	
1254	8	150	17	774.6	0.0	
1255	9	150	17	774.6	0.0	
1256	10	150	17	774.6	0.0	
1258	0	150	33	775.0	0.0	Head Loss = 0.0
1259	1	150	33	775.2	0.2	
1300	2	150	33	775.4	0.2	
1301	3	150	33	775.6	0.2	
1302	4	150	33	775.8	0.2	
1303	5	150	33	776.0	0.2	
1304	6	150	33	776.2	0.2	
1305	7	150	33	776.4	0.2	
1306	8	150	33	776.6	0.2	
1307	9	150	33	776.8	0.2	
1308	10	150	33	777.0	0.2	

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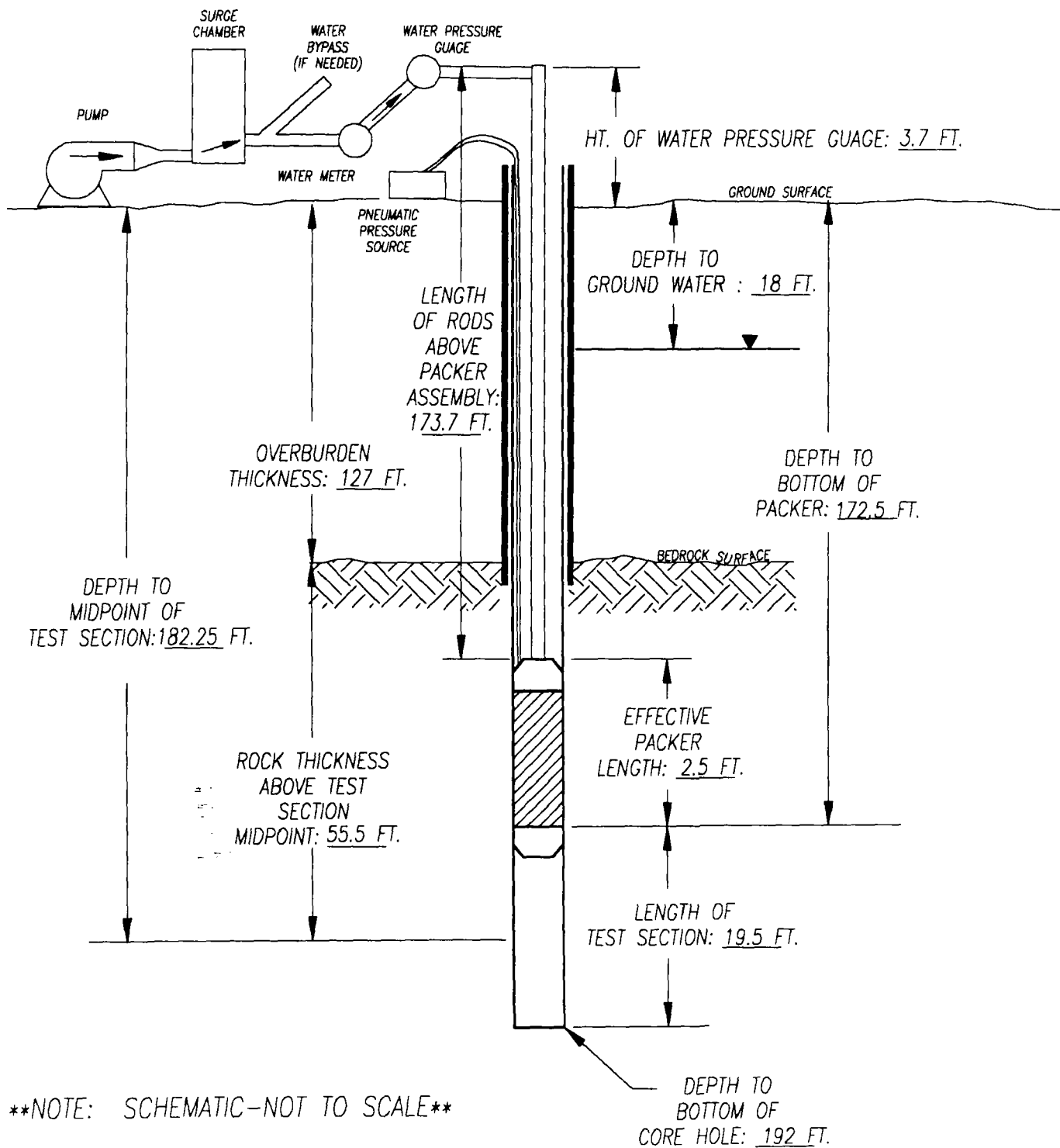
ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B132</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>728.40 FT.</u> DATE START: <u>JUNE 19, 1992</u> DATE FINISH: <u>JUNE 19, 1992</u> DRILLER: <u>S. LAMARSH</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC AARDVARK NONE	DIGITAL NEPTUNE 35508375	ANALOG HARVARD NONE	IN-LINE DAMPER EDI, INC. NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>50 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>3 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>98</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>59.4 FT.</u> TO BOTTOM OF BORING <u>83.2 FT.</u> TO WATER TABLE <u>6.0 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>4.2 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP LOWER PACKER <u>NA</u> - BOTTOM OF TEST ZONE = <u>83.2 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>62.8 FT.</u> LENGTH OF TEST SECTION <u>20.4 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1309	0	150	50	777.5	0.0	1 DROP PER MINUTE LEAK
1310	1	150	50	777.9	0.4	OBSERVED IN UNION AT GAUGE
1311	2	150	50	778.2	0.3	ASSEMBLY.
1312	3	150	50	778.5	0.3	Head Loss = 0.0
1313	4	150	50	778.9	0.4	
1314	5	150	50	779.2	0.3	
1315	6	150	50	779.5	0.3	
1316	7	150	50	779.8	0.3	
1317	8	150	50	780.2	0.4	
1318	9	150	50	780.5	0.3	
1319	10	150	50	780.8	0.3	
1321	0	150	33	781.3	0.0	TIGHTENED THE UNION, LEAK
1322	1	150	33	781.4	0.1	WAS STOPPED.
1323	2	150	33	781.5	0.1	Head Loss = 0.0
1324	3	150	33	781.6	0.1	
1325	4	150	33	781.7	0.1	
1326	5	150	33	781.8	0.1	
1327	6	150	33	781.9	0.1	
1328	7	150	33	782.0	0.1	
1329	8	150	33	782.1	0.1	
1330	9	150	33	782.2	0.1	
1331	10	150	33	782.3	0.1	
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WATER PRESSURE/PACKER TEST SCHEMATIC **SINGLE PACKER TEST CONFIGURATION**

PROJECT NAME: PARKER LANDFILL PROJECT
 PROJECT NUMBER: 490 5024
 LOCATION: LYNDONVILLE, VERMONT
 TEST INTERVAL: 172.5-192 FT. B.G.S.

BORING NUMBER: 136C
 TEST NUMBER: 1
 DATE: AUGUST 20, 1992
 INSPECTOR: J. BANNON



****NOTE: SCHEMATIC-NOT TO SCALE****

136C1.DWG

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ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031		WATER PRESSURE TEST		HOLE NO. <u>B136C</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>				FILE NO. <u>490 5024</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan</u> ELEVATION: <u>710.28 FT.</u> DATE START: <u>JULY 10, 1992</u> DATE FINISH: <u>JULY 10, 1992</u> DRILLER: <u>C. STAMAS</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER	
TYPE MFG. MODEL NO.	PNEUMATIC	DIGITAL	ANALOG	IN-LINE DAMPER	
	AARDVARK	NEPTUNE	HARVARD	EDI, INC.	
	L54-361	35508375	NONE	NONE	
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>91 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>			ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>4 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>98</u>		

DEPTHS: (All Distances Measured from Ground Surface)

TO TOP OF ROCK 127 FT.

TO BOTTOM OF BORING 192.0 FT.

TO WATER TABLE 18 FT.

HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE 3.7 FT.

TEST CONFIGURATION: SINGLE PACKER

TO TOP LOWER PACKER NA - BOTTOM OF TEST ZONE = 192 FT.

TO BOTTOM UPPER PACKER(Z) 172.5 FT.

LENGTH OF TEST SECTION 19.5 FT.

TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1105	0	200	30	873.5	0.0	Head Loss = 0.0
1106	1	200	30	873.5	0.0	
1107	2	200	30	873.5	0.0	
1108	3	200	30	873.5	0.0	
1109	4	200	30	873.5	0.0	
1110	5	200	30	873.5	0.0	
1111	6	200	30	873.5	0.0	
1112	7	200	30	873.5	0.0	
1113	8	200	30	873.5	0.0	
1114	9	200	30	873.5	0.0	
1115	10	200	30	873.5	0.0	
1120	0	200	61	876.4	0.0	Head Loss = 0.0
1121	1	200	61	877.0	0.6	
1122	2	200	61	877.5	0.5	
1123	3	200	61	878.0	0.5	
1124	4	200	61	878.5	0.5	
1125	5	200	61	878.9	0.4	
1126	6	200	61	879.3	0.4	
1127	7	200	61	879.8	0.5	
1128	8	200	61	880.2	0.4	
1129	9	200	61	880.6	0.4	
1130	10	200	61	881.1	0.5	

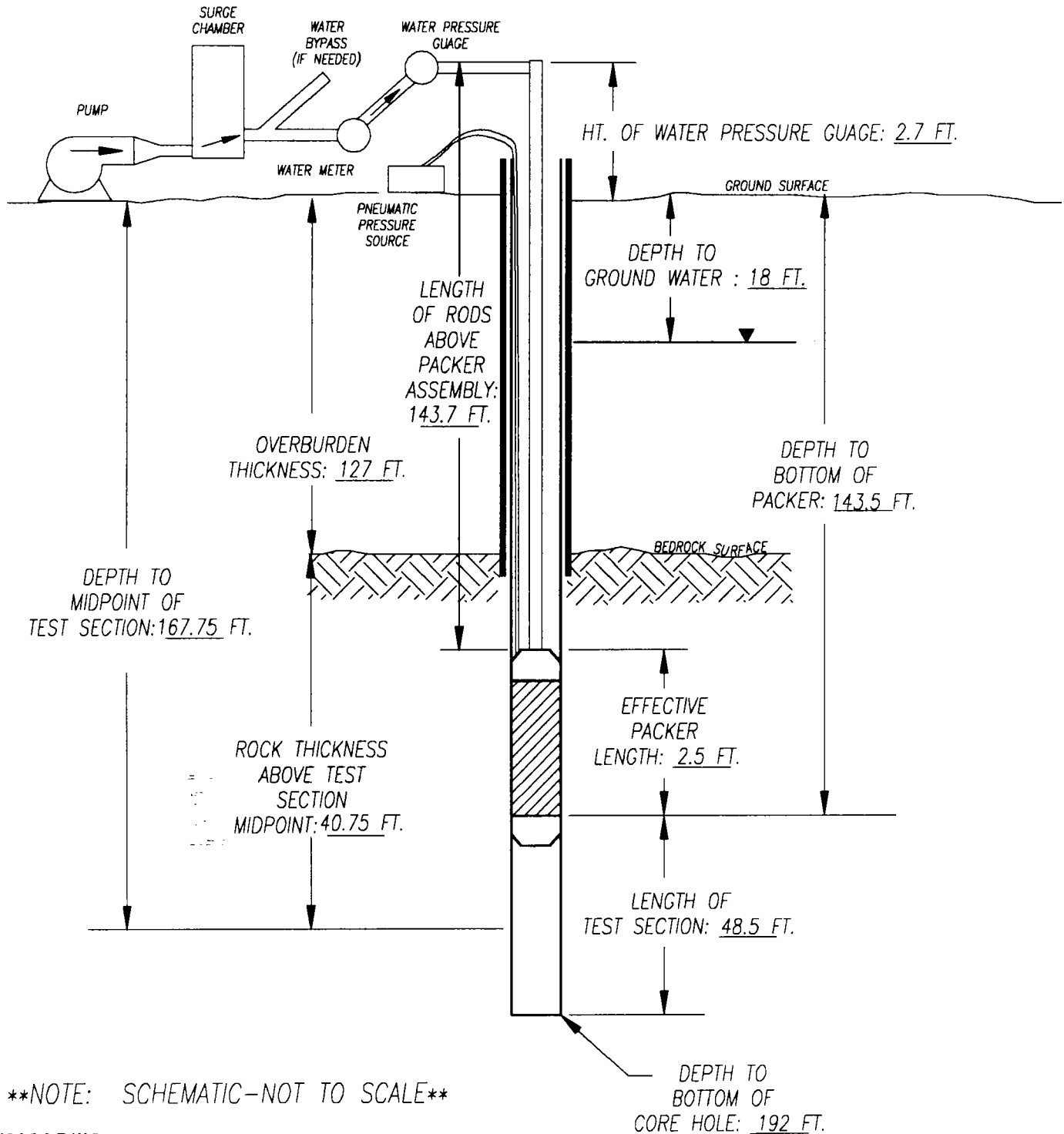
ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B136C</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>710.28 FT.</u> DATE START: <u>JULY 10, 1992</u> DATE FINISH: <u>JULY 10, 1992</u> DRILLER: <u>C. STAMAS</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC	DIGITAL	ANALOG	IN-LINE DAMPER		
	AARDVARK	NEPTUNE	HARVARD	EDI, INC.		
	L54-361	35508375	NONE	NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>91 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>4 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>98</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>127 FT.</u> TO BOTTOM OF BORING <u>192.0 FT.</u> TO WATER TABLE <u>18 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.7 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP LOWER PACKER <u>NA</u> - BOTTOM OF TEST ZONE = <u>192 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>172.5 FT.</u> LENGTH OF TEST SECTION <u>19.5 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1144	0	255	91	889.2	0.0	Head Loss = 0.0
1145	1	255	91	889.7	0.5	
1146	2	255	91	890.1	0.4	
1147	3	255	91	890.6	0.5	
1148	4	255	91	891.0	0.4	
1149	5	255	91	891.5	0.5	
1150	6	255	91	892.0	0.5	
1151	7	255	91	892.5	0.5	
1152	8	255	91	893.0	0.5	
1153	9	255	91	893.5	0.5	
1154	10	255	91	894.0	0.5	
1156	0	255	61	894.7	0.0	Head Loss = 0.0
1157	1	255	61	895.2	0.5	
1158	2	255	61	895.6	0.4	
1159	3	255	61	896.0	0.4	
1200	4	255	61	896.4	0.4	
1201	5	255	61	896.9	0.5	
1202	6	255	61	897.4	0.5	
1203	7	255	61	897.8	0.4	
1204	8	255	61	898.3	0.5	
1205	9	255	61	898.7	0.4	
1206	10	255	61	899.1	0.4	

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WATER PRESSURE/PACKER TEST SCHEMATIC
SINGLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 143.5-192 FT. B.G.S.

BORING NUMBER: 136C
TEST NUMBER: 2
DATE: JULY 10, 1992
INSPECTOR: J. BANNON



****NOTE: SCHEMATIC-NOT TO SCALE****

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B136C</u> TEST NO. <u>2</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>710.28 FT.</u> DATE START: <u>JULY 10, 1992</u> DATE FINISH: <u>JULY 10, 1992</u> DRILLER: <u>C. STAMAS</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE	PNEUMATIC	DIGITAL	ANALOG	IN-LINE DAMPER		
MFG.	AARDVARK	NEPTUNE	HARVARD	EDI, INC.		
MODEL NO.	L54-361	35508375	NONE	NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>91 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>4 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>86</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>127 FT.</u> TO BOTTOM OF BORING <u>192.0 FT.</u> TO WATER TABLE <u>18 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.7 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP LOWER PACKER <u>NA</u> - BOTTOM OF TEST ZONE AT 192 FT. TO BOTTOM UPPER PACKER(Z) <u>172.5 FT.</u> LENGTH OF TEST SECTION <u>48.5 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1353	0	220	84	1026.5	0.0	Head Loss = 0.01 ft/ft.
1354	1	220	84	1029.8	3.3	
1355	2	220	84	1032.9	3.1	
1356	3	220	84	1036.0	3.1	
1357	4	220	84	1039.0	3.0	
1358	5	220	84	1042.0	3.0	
1359	6	220	84	1045.2	3.2	
1400	7	220	84	1048.5	3.3	
1401	8	220	84	1052.5	4.0	
1402	9	220	84	1056.8	4.3	
1403	10	220	84	1061.2	4.4	
1405	0	220	56	1068.0	0.0	Head Loss = 0.01 ft/ft.
1406	1	220	56	1072.2	4.2	
1407	2	220	56	1076.3	4.1	
1408	3	220	56	1080.6	4.3	
1409	4	220	56	1084.8	4.2	
1410	5	220	56	1088.8	4.0	
1411	6	220	56	1093.0	5.0	
1412	7	220	56	1096.9	3.9	
1413	8	220	56	1101.0	4.1	
1414	9	220	56	1104.8	3.8	
1415	10	220	56	1108.7	3.9	

Form: h20press

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B136C</u> TEST NO. <u>2</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>3</u> LOCATION: <u>See Plan</u> ELEVATION: <u>710.28 FT.</u> DATE START: <u>JULY 10, 1992</u> DATE FINISH: <u>JULY 10, 1992</u> DRILLER: <u>C. STAMAS</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
TYPE MFG. MODEL NO.	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
	PNEUMATIC	DIGITAL	ANALOG	IN-LINE DAMPER		
	AARDVARK	NEPTUNE	HARVARD	EDI, INC.		
	L54-361	35508375	NONE	NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>91 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>4 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>86</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>127 FT.</u> TO BOTTOM OF BORING <u>192.0 FT.</u> TO WATER TABLE <u>18 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.7 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP LOWER PACKER NA - BOTTOM OF TEST ZONE AT <u>192 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>172.5 FT.</u> LENGTH OF TEST SECTION <u>48.5 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1415	0	220	28	1112.5	0.0	Head Loss = 0.01 ft/ft.
1416	1	220	28	1115.1	2.6	
1417	2	220	28	1117.8	2.7	
1418	3	220	28	1120.3	2.5	
1419	4	220	28	1122.8	2.5	
1420	5	220	28	1125.5	2.7	
1421	6	220	28	1128.0	2.5	
1422	7	220	28	1130.5	2.5	
1423	8	220	28	1133.1	2.6	
1424	9	220	28	1135.7	2.6	
1425	10	220	28	1138.2	2.5	
1405	0	220	56	1068.0	0.0	Head Loss = 0.01 ft/ft.
1406	1	220	56	1072.2	4.2	
1407	2	220	56	1076.3	4.1	
1408	3	220	56	1080.6	4.3	
1409	4	220	56	1084.8	4.2	
1410	5	220	56	1088.8	4.0	
1411	6	220	56	1093.0	5.0	
1412	7	220	56	1096.9	3.9	
1413	8	220	56	1101.0	4.1	
1414	9	220	56	1104.8	3.8	
1415	10	220	56	1108.7	3.9	

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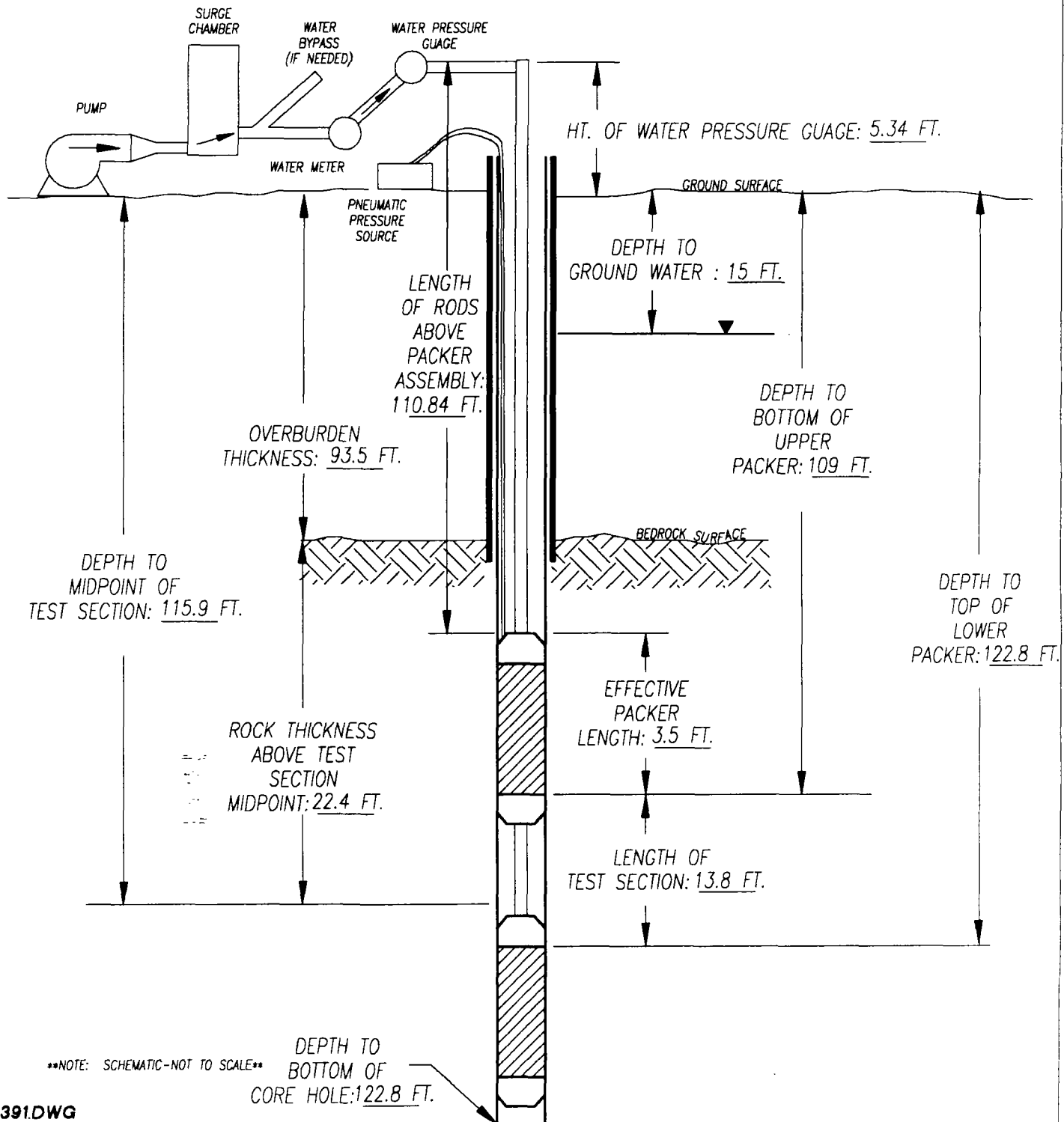
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ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B136C</u> TEST NO. <u>2</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan</u> ELEVATION: <u>710.28 FT.</u> DATE START: <u>JULY 10, 1992</u> DATE FINISH: <u>JULY 10, 1992</u> DRILLER: <u>C. STAMAS</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC AARDVARK L54-361	DIGITAL NEPTUNE 35508375	ANALOG HARVARD NONE	IN-LINE DAMPER EDI, INC. NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>91 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>CALCAREOUS PHYLLITE</u> HOLE SIZE <u>4 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>86</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>127 FT.</u> TO BOTTOM OF BORING <u>192.0 FT.</u> TO WATER TABLE <u>18 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>3.7 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP LOWER PACKER <u>NA - BOTTOM OF TEST ZONE AT 192 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>172.5 FT.</u> LENGTH OF TEST SECTION <u>48.5 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
1325	0	220	28	973.5	0.0	Head Loss = 0.0
1326	1	220	28	975.0	1.5	
1327	2	220	28	976.5	1.5	
1328	3	220	28	977.8	1.3	
1329	4	220	28	979.2	1.4	
1330	5	220	28	980.4	1.2	
1331	6	220	28	981.5	1.1	
1332	7	220	28	982.6	1.1	
1333	8	220	28	983.7	1.1	
1334	9	220	28	984.9	1.2	
1335	10	220	28	985.9	1.0	
1339	0	220	56	990.0	0.0	Head Loss = 0.01 ft/ft.
1340	1	220	56	991.9	1.9	
1341	2	220	56	994.0	2.1	
1342	3	220	56	996.0	2.0	
1343	4	220	56	997.9	1.9	
1344	5	220	56	1000.0	2.1	
1345	6	220	56	1002.0	2.0	
1346	7	220	56	1004.3	2.3	
1347	8	220	56	1006.3	2.0	
1348	9	220	56	1008.3	2.0	
1349	10	220	56	1010.3	2.0	
Form: h20press						

WATER PRESSURE/PACKER TEST SCHEMATIC DOUBLE PACKER TEST CONFIGURATION

PROJECT NAME: PARKER LANDFILL PROJECT
PROJECT NUMBER: 490 5024
LOCATION: LYNDONVILLE, VERMONT
TEST INTERVAL: 109-122.8 B.G.S.

BORING NUMBER: 139
TEST NUMBER: 1
DATE: JUNE 9, 1992
INSPECTOR: J. BANNON



ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B139</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>1</u> LOCATION: <u>See Plan</u> ELEVATION: <u>753.52 FT.</u> DATE START: <u>JUNE 9, 1992</u> DATE FINISH: <u>JUNE 9, 1992</u> DRILLER: <u>S. LAMARSHE</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC AARDVARK NONE	DIGITAL NEPTUNE 35508375	ANALOG HARVARD NONE	IN-LINE DAMPER EDI, INC. NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>55 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>SILICEOUS PHYLLITE</u> HOLE SIZE <u>3 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>75</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>93.5 FT.</u> TO BOTTOM OF BORING <u>122.8 FT.</u> TO WATER TABLE <u>15 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>5.3 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP LOWER PACKER <u>NA</u> - BOTTOM OF TEST ZONE = <u>122.8 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>109 FT.</u> LENGTH OF TEST SECTION <u>13.8 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
0911	0	150	18	735.2	0.0	INCREASE TO 55 PSI (MGP)
0912	1	150	18	735.7	0.5	Head Loss = 0.0
0913	2	150	18	736.1	0.4	
0914	3	150	18	736.5	0.4	
0915	4	150	18	736.9	0.4	
0916	5	150	18	737.4	0.5	
0917	6	150	18	737.8	0.4	
0918	7	150	18	738.2	0.4	
0919	8	150	18	738.6	0.4	
0920	9	150	18	739.0	0.4	
0921	10	150	18	739.4	0.4	
						DECREASE TO 37 PSI
0923	0	150	37	741.0	0.0	Head Loss = 0.0
0924	1	150	37	741.6	0.6	
0925	2	150	37	742.2	0.6	
0926	3	150	37	742.7	0.5	
0927	4	150	37	743.3	0.6	
0928	5	150	37	743.8	0.5	
0929	6	150	37	744.2	0.4	
0930	7	150	37	744.9	0.7	
0931	8	150	37	745.4	0.5	
0932	9	150	37	745.9	0.5	
0933	10	150	37	746.5	0.6	
Form: h20press						

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NEW HAMPSHIRE 03031			WATER PRESSURE TEST		HOLE NO. <u>B139</u> TEST NO. <u>1</u>	
PROJECT: <u>PARKER LANDFILL, LYNDONVILLE, VERMONT</u> CLIENT: <u>PRP GROUP</u> CONTRACTOR: <u>ENVIRONMENTAL DRILLING, INC.</u>					FILE NO. <u>490 5024</u> SHEET NO. <u>2</u> LOCATION: <u>See Plan</u> ELEVATION: <u>753.52 FT.</u> DATE START: <u>JUNE 9, 1992</u> DATE FINISH: <u>JUNE 9, 1992</u> DRILLER: <u>S. LAMARSHE</u> INSPECTOR: <u>J. BANNON</u> GEOLOGIST: <u>J. BANNON</u>	
	PACKER SYSTEM	WATER METER	WATER GAUGE	SURGE CHAMBER		
TYPE MFG. MODEL NO.	PNEUMATIC AARDVARK NONE	DIGITAL NEPTUNE 35508375	ANALOG HARVARD NONE	IN-LINE DAMPER EDI, INC. NONE		
M.G.P. = (0.566 to 1.0)(Z) COMPUTED MAX GAUGE PRESS:(MGP) <u>55 PSI</u> COMPUTED INTERNAL FRICTION: <u>See Remarks</u>				ROCK TYPE: <u>SILICEOUS PHYLLITE</u> HOLE SIZE <u>3 IN.</u> RECOVERY(%) <u>100</u> RQD(%) <u>75</u>		
DEPTHS: (All Distances Measured from Ground Surface) TO TOP OF ROCK <u>93.5 FT.</u> TO BOTTOM OF BORING <u>122.8 FT.</u> TO WATER TABLE <u>15 FT.</u> HEIGHT OF WATER PRESSURE GAUGE ABOVE GROUND SURFACE <u>5.3 FT.</u>				TEST CONFIGURATION: <u>SINGLE PACKER</u> TO TOP LOWER PACKER <u>NA</u> - BOTTOM OF TEST ZONE = <u>122.8 FT.</u> TO BOTTOM UPPER PACKER(Z) <u>109 FT.</u> LENGTH OF TEST SECTION <u>13.8 FT.</u>		
TIME	ELAPSED TIME (MIN)	PACKER PRESSURE (PSI)	GAUGE PRESSURE (PSI)	METER READING (GALS)	VOLUME OF FLOW (GALS/MIN)	REMARKS
0937	0	150	55	748.2	0.00	INCREASE TO 55 PSI (MGP)
0938	1	150	55	748.9	0.7	Head Loss = 0.0
0939	2	150	55	749.6	0.7	
0940	3	150	55	750.3	0.7	
0941	4	150	55	751.0	0.7	
0942	5	150	55	751.7	0.7	
0943	6	150	55	752.3	0.6	
0944	7	150	55	753.0	0.7	
0945	8	150	55	753.7	0.7	
0946	9	150	55	754.3	0.6	
0947	10	150	55	755.0	0.7	
						DECREASE TO 37 PSI
0947	0	150	37	756.1	0.0	Head Loss = 0.0
0948	1	150	37	756.5	0.4	
0949	2	150	37	757.0	0.5	
0950	3	150	37	757.4	0.4	
0951	4	150	37	757.9	0.5	
0952	5	150	37	758.3	0.4	
0953	6	150	37	758.8	0.5	
0954	7	150	37	759.2	0.4	
0955	8	150	37	759.6	0.4	
0956	9	150	37	760.1	0.5	
0957	10	150	37	760.6	0.5	

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APPENDIX I
PERMEABILITY DATA

EXAMPLE CONSTANT FLOW INPUT PARAMETERS
Parker Landfill Project
Lyndon, Vermont

Well I.D.	Date	Pump Duration (minutes) t	Total Drawdown (ft.) s	Pumping Rate (gpm) Q	Effective Well Radius (ft.) r	Depth of Screen Midpoint (ft.) Z	Saturated Thickness of Aquifer (ft.) B	Depth to Top of Saturated Screen (ft.) D	Depth to Bottom of Screen (ft.) L	Kv/Kz
104		28.00	31.10	3.74	0.083	34	39	29	39	1
105I	7/07/92	11.50	5.48	2.70	0.083	108	113	103	113	1
106B		24.00	6.00	8.23	0.083	86.6	100	81.5	91.5	1
107		26.00	1.20	8.23	0.083	58.46	140	53.5	63.5	1
108I	7/08/92	19.00	23.05	0.80	0.083	74	79	69	79	1
109B		35.00	5.33	3.66	0.083	66	99	61	71	1
113B	8/02/91	19.00	9.40	3.29	0.083	35	90	80	90	1
114B	8/21/91	2160.00	24.70	3.29	0.083	34.2	39	29	39	1
117A		25.00	1.40	1.42	0.083	6	75	0	11.92	1
117B		28.00	9.40	0.60	0.083	69.9	75	64.8	74.8	1
118B	8/15/91	324	14	2.16	0.083	139.15	155	135	145	1
119C		21.00	1.90	6.73	0.083	76.7	82	71.7	81.7	1
120B	11/11/91	13.00	7.93	2.75	0.083	36	77	31	41	1
120C		10.00	1.00	3.96	0.083	77	80	70	80	1
121A	8/01/91	11.00	3.30	8.23	0.083	95	100	90	100	1
121B	8/01/91	15.00	3.60	4.63	0.083	122.14	127	122	127	1
126A		13.00	1.40	6.13	0.083	95	100	90	100	1
126B	9/09/91	420.00	3.20	4.26	0.083	185	265	100	265	1
127B	8/05/91	10.00	3.10	8.23	0.083	37.3	65	32.3	42.3	1
127C	8/05/91	21.00	1.90	4.94	0.083	60.3	65	55	65	1
131B	8/16/91	240.00	6.30	2.50	0.083	42.75	97	37.7	47.7	1
131C		43.00	54.50	5.95	0.083	43	97	37	47	1
134A	7/07/92	30.00	7.57	2.80	0.083	46	100	41	51	1
134B	7/07/92	17.00	0.58	2.80	0.083	95	100	90	100	1
137B	7/08/92	18.00	1.50	2.10	0.083	128	133	123	133	1
HB-1D	7/09/91	30.00	0.60	0.75	0.083	23	140	26	21	1
HB-2	7/09/91	21.00	2.60	1.42	0.083	4	140	0	7.4	1
HB-3	7/09/91	14.00	2.00	5.31	0.083	3.5	140	0	8	1
HB-4S	7/09/91	24.00	3.00	9.42	0.083	4	100	0	8	1
HB-4D	7/09/91	11.00	3.70	9.35	0.083	24.3	100	21.8	26.8	1
HB-5	7/09/91	22.00	1.90	8.20	0.083	4.5	100	0	9	1
HB-6	7/09/91	22.00	1.90	9.4	0.083	4	100	0	8	1

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BOUWER & RICE
SLUG TEST PARAMETERS
PARKER LANDFILL PROJECT
LYNDONVILLE, VERMONT

Well I.D.	Date Performed	Top of Screen Elev. (ft)	Radius of Well Casing (ft.)	Radius of Borehole (ft.)	Saturated Aquifer Thickness (ft.)	Screen Length		Initial Water Elev. (ft)	Water Height in Well (ft.)	No. of Points	Time Min.	Displacement (ft)	
						Actual (ft)	Sat. (ft)					Initial	Final
101B	7/01/91	732.39	0.083	0.25	25.94	10	10.00	748.33	25.94	77	22	1.637	0.018
102A	7/02/91	738.34	0.083	0.25	71.00	15	14.90	738.24	14.90	69	20	3.252	2.389
102B	7/02/91	683.76	0.083	0.25	66.00	10	10.00	737.56	63.80	79	31	1.545	0.180
103A	7/02/91	746.91	0.083	0.25	79.00	15	10.00	741.91	10.00	70	22	1.441	0.123
103B	7/02/91	706.79	0.083	0.25	60.00	10	10.00	721.49	24.70	166	122	2.933	0.009
103C	7/02/91	669.61	0.083	0.25	60.00	10	10.00	722.01	62.40	62	28	6.712	0.028
106B	7/08/91	643.42	0.083	0.25	100.00	10	10.00	725.92	92.50	38	1	1.182	0.009
106B-F	7/08/91	643.42	0.083	0.25	100.00	10	10.00	725.92	92.50	52	7	0.832	0.009
107	7/08/91	671.50	0.083	0.25	139.00	10	10.00	725.50	64.00	29	1	0.986	0.009
107-F	7/08/91	671.50	0.083	0.25	139.00	10	10.00	725.50	64.00	34	1.25	0.986	0.009
108B	7/08/91	579.93	0.083	0.25	122.00	10	10.00	691.93	122.00	80	30	3.185	0.132
109A	8/21/91	701.79	0.083	0.25	100.00	15	6.90	693.69	6.90	120	71	1.251	0.047
109B	8/21/91	632.54	0.083	0.25	100.00	10	10.00	691.54	69.00	47	0	3.87	0.000
109C	8/21/91	603.29	0.083	0.25	100.00	10	10.00	693.29	100.00	71	24	4.78	0.009
110A	8/02/91	699.99	0.083	0.25	25.00	15	6.80	691.79	6.80	28	0.58	1.153	0.009
110B	8/05/91	677.52	0.083	0.25	25.00	10	10.00	693.65	26.13	62	12	2.939	0.047
111R	8/05/91	681.21	0.083	0.25	24.00	10	10.00	695.21	24.00	106	55	3.419	0.217
113A	8/02/91	696.49	0.083	0.25	90.00	15	9.00	690.49	9.00	49	4	1.115	0.018
113A-F	8/02/91	696.49	0.083	0.25	90.00	15	9.00	690.49	9.00	31	1	0.122	0.009
114A	7/31/91	757.85	0.083	0.25	73.00	15	10.20	753.05	10.20	29	1	1.399	0.009
114A-F	7/31/91	757.85	0.083	0.25	73.00	15	10.20	753.05	10.20	55	9	0.841	0.056
115A	7/31/91	755.42	0.083	0.25	82.00	15	13.50	753.92	13.50	72	22	1.962	0.085
115B	7/31/91	688.60	0.083	0.25	51.00	10	10.00	722.60	44.00	83	28	0.784	0.009
115B-F	7/31/91	688.60	0.083	0.25	51.00	10	10.00	722.60	44.00	80	38	0.652	0.066
116B	8/06/91	558.09	0.083	0.25	156.00	10	10.00	688.09	140.00	61	11	2.806	0.037
119A	8/01/91	733.90	0.083	0.25	10.00	15	8.70	727.60	8.70	77	28	1.975	0.340
119B	8/01/91	628.46	0.083	0.25	80.00	10	10.00	670.16	51.70	53	10	3.63	0.037
120A	7/02/91	695.50	0.083	0.25	78.00	15	9.35	689.85	9.35	50	5	2.902	0.047
122	8/05/91	650.59	0.083	0.25	48.00	10	15.00	685.59	45.00	54	0	2.902	0.000
125A	8/05/91	649.29	0.083	0.25	71.50	10	10.00	691.79	52.50	59	10	2.616	0.047
127A	8/05/91	679.58	0.083	0.25	66.00	15	6.81	671.39	6.81	27	1	1.287	0.009
201OW	8/06/91	694.09	0.083	0.25	100.00	15	10.60	689.69	10.60	64	13	1.342	0.028
202OW	8/05/91	692.26	0.083	0.25	100.00	15	5.60	682.86	5.60	53	7	1.204	0.560

BOUWER & RICE
SLUG TEST PARAMETERS
PARKER LANDFILL PROJECT
LYNDONVILLE, VERMONT

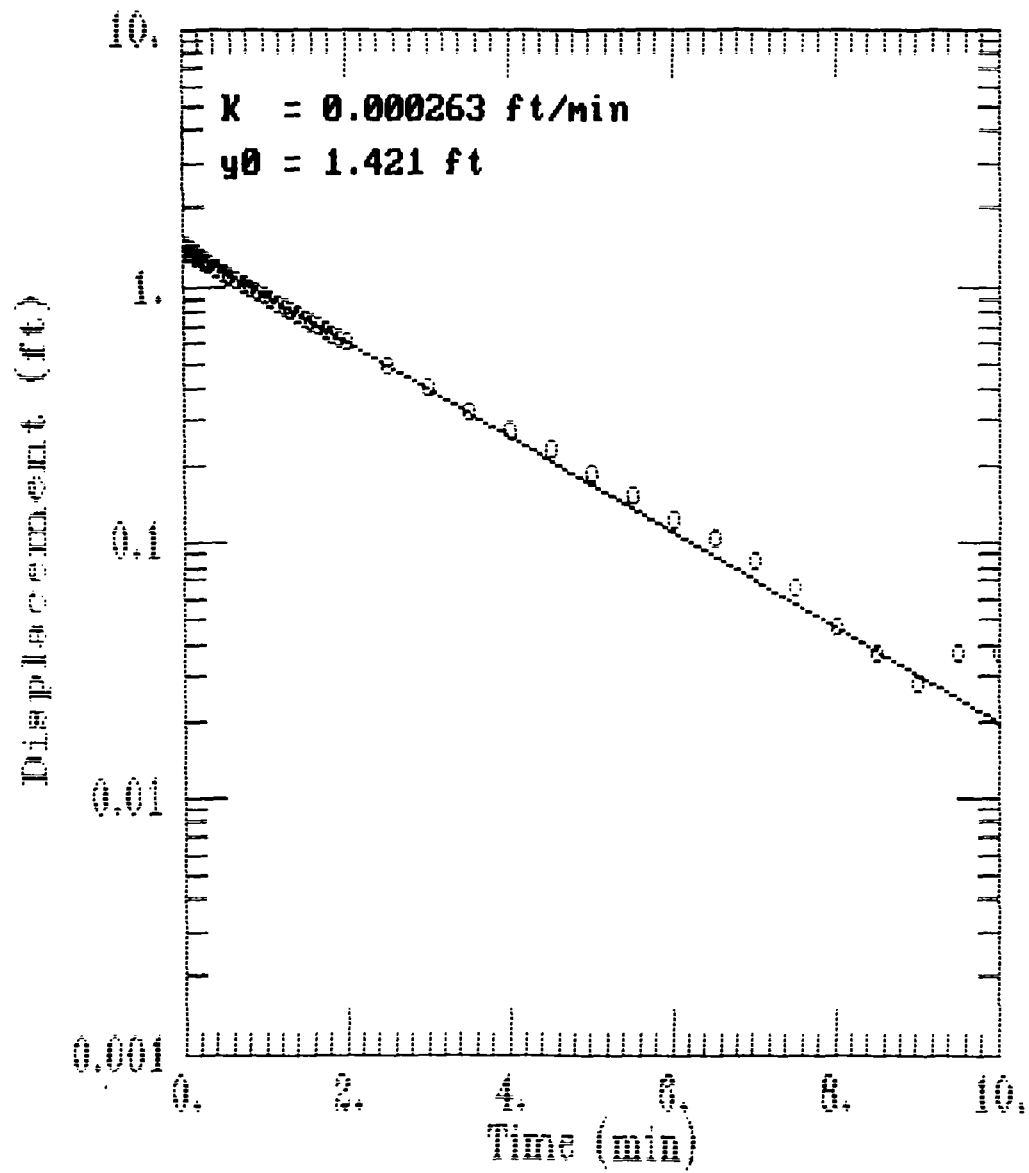
Well I.D.	Date Performed	Top of Screen Elev. (ft)	Radius of Well Casing (ft.)	Radius of Borehole (ft.)	Saturated Aquifer Thickness (ft.)	Screen Length		Initial Water Elev. (ft)	Water Height in Well (ft.)	No. of Points	Time Min.	Displacement (ft)	
						Actual (ft)	Sat. (ft)					Initial	Final
2020W-F	8/05/91	692.26	0.083	0.25	100.00	15	5.60	682.86	5.60	66	18	0.824	0.018
MW-4	6/28/91	693.72	0.083	0.25	55.00	15	15.00	693.22	14.50	61	13	1.457	0.009
MW-6	6/28/91	690.62	0.083	0.25	75.00	10	15.00	693.12	12.50	32	1	1.372	0.009
MW-8	6/28/91	781.76	0.083	0.25	50.00	10	10.00	781.76	10.00	68	19	1.164	0.056
MW-10	6/28/91	725.46	0.083	0.25	80.00	10	15.00	730.46	15.00	79	30	2.015	0.047
MW-13	6/28/91	728.83	0.083	0.25	100.00	25	18.85	722.68	18.85	35	0	1.343	0.000
301	6/29/91	NA	0.052	0.052	90.00	0.026	0.026	NA	0.84	233	0	3.974	0.000
302	6/29/91	NA	0.052	0.052	90.00	0.026	0.026	NA	0.26	7	0	0.58	0.000
303	6/29/91	NA	0.052	0.052	90.00	0.026	0.026	NA	1.98	7	0	0.49	0.000
304	6/29/91	NA	0.052	0.052	55.00	0.026	0.026	NA	2.02	1	0	2.451	0.000
305	6/29/91	NA	0.052	0.052	100.00	0.026	0.026	NA	2.33	1	0	2.63	0.000
306	6/29/91	NA	0.052	0.052	100.00	0.026	0.026	NA	2.38	11	0	1.79	0.000
307	6/29/91	NA	0.052	0.052	80.00	0.026	0.026	NA	0.00	71	0	4.772	0.000
308	6/29/91	NA	0.052	0.052	80.00	0.026	0.026	NA	2.33	2000	1995	2.678	0.095
309	6/29/91	NA	0.052	0.052	82.00	0.026	0.026	NA	2.59	2000	1965	1.688	0.189
310	7/02/91	NA	0.052	0.052	74.00	0.026	0.026	NA	2.29	600	0	0.113	0.000
311	7/02/91	NA	0.052	0.052	75.00	0.026	0.026	NA	2.60	225	0	3.327	0.000

Note: All tests are rising head, except where indicated as falling head (-F)

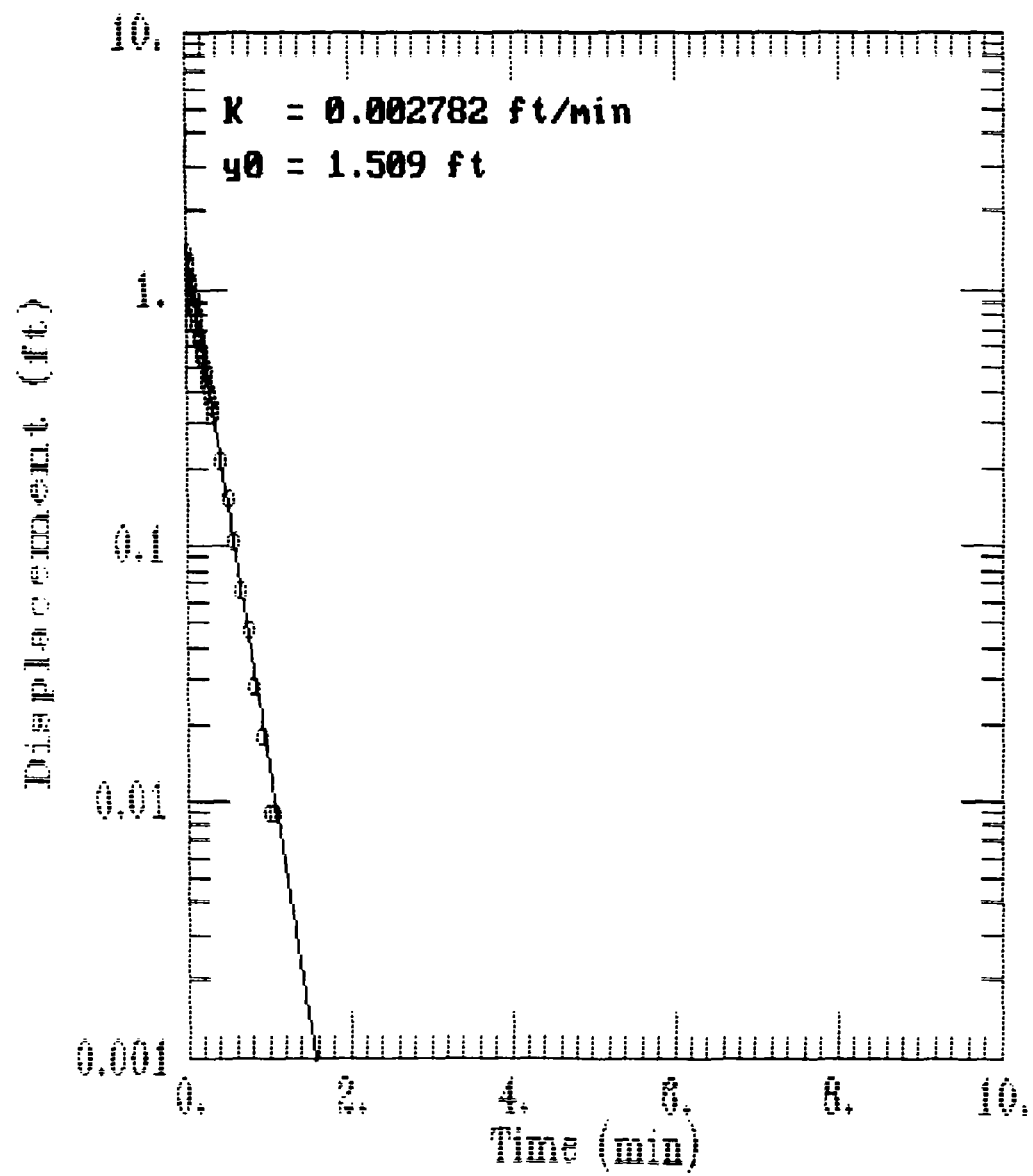
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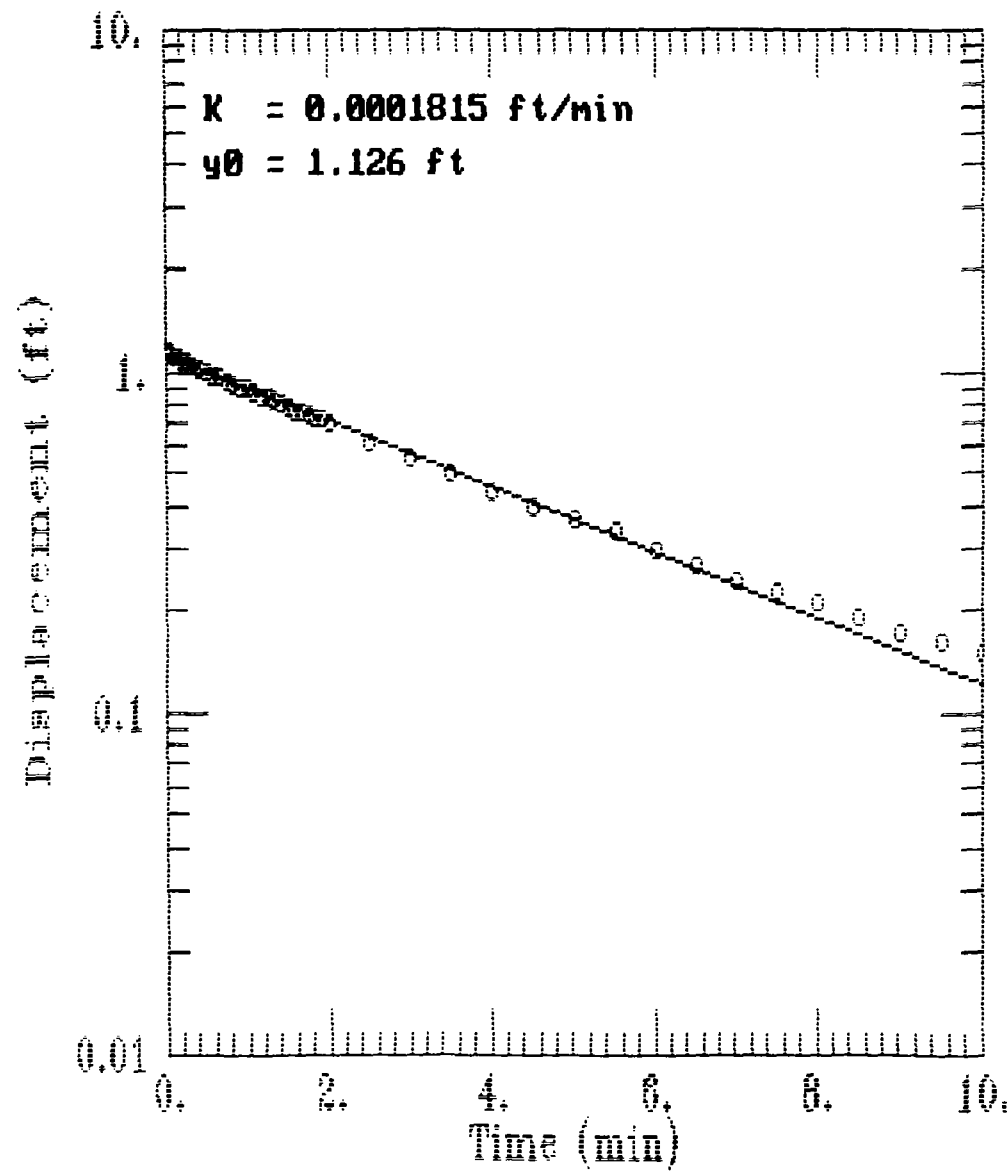
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Monitoring Well MW-6A



Monitoring Well MW-8A

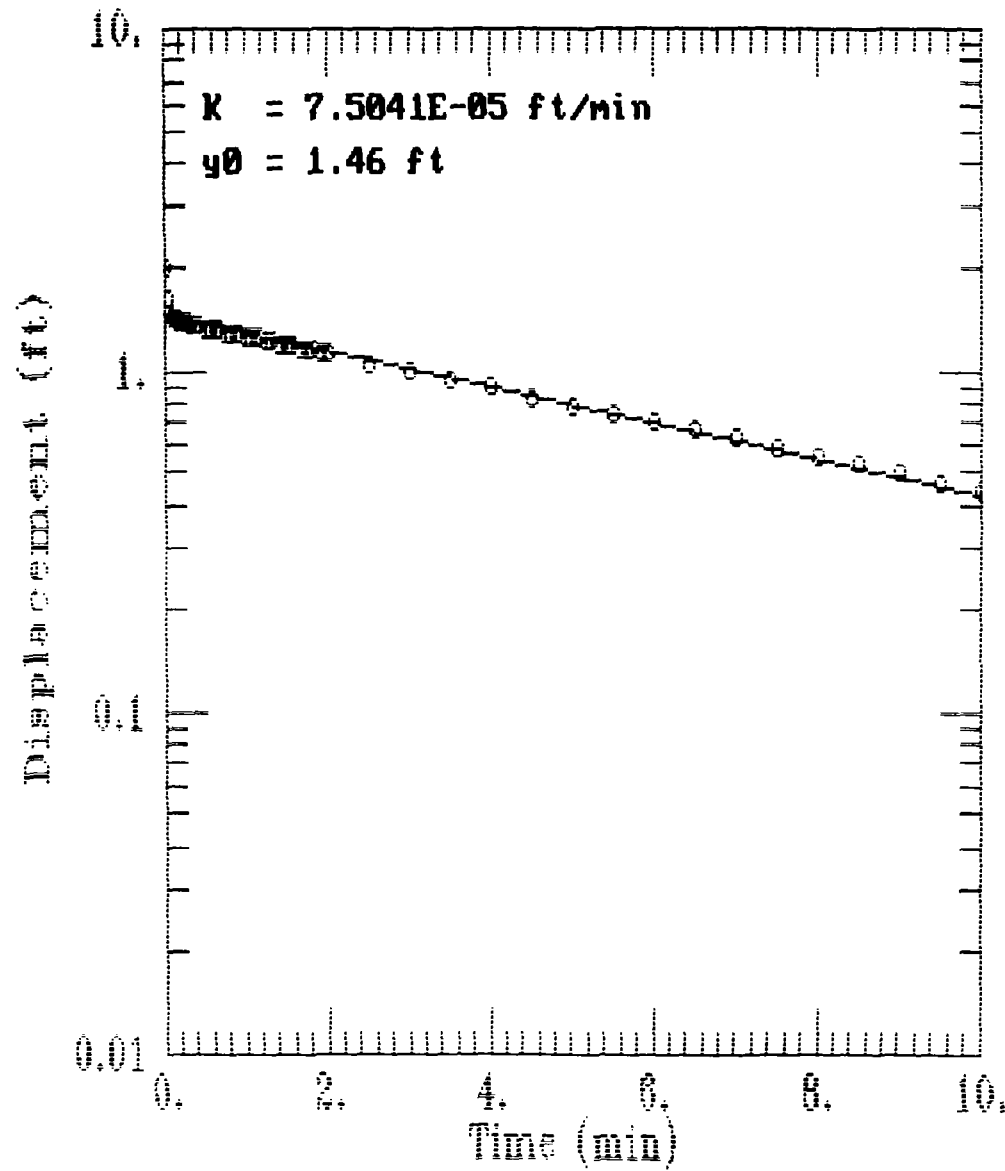


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Monitoring Well MW-10

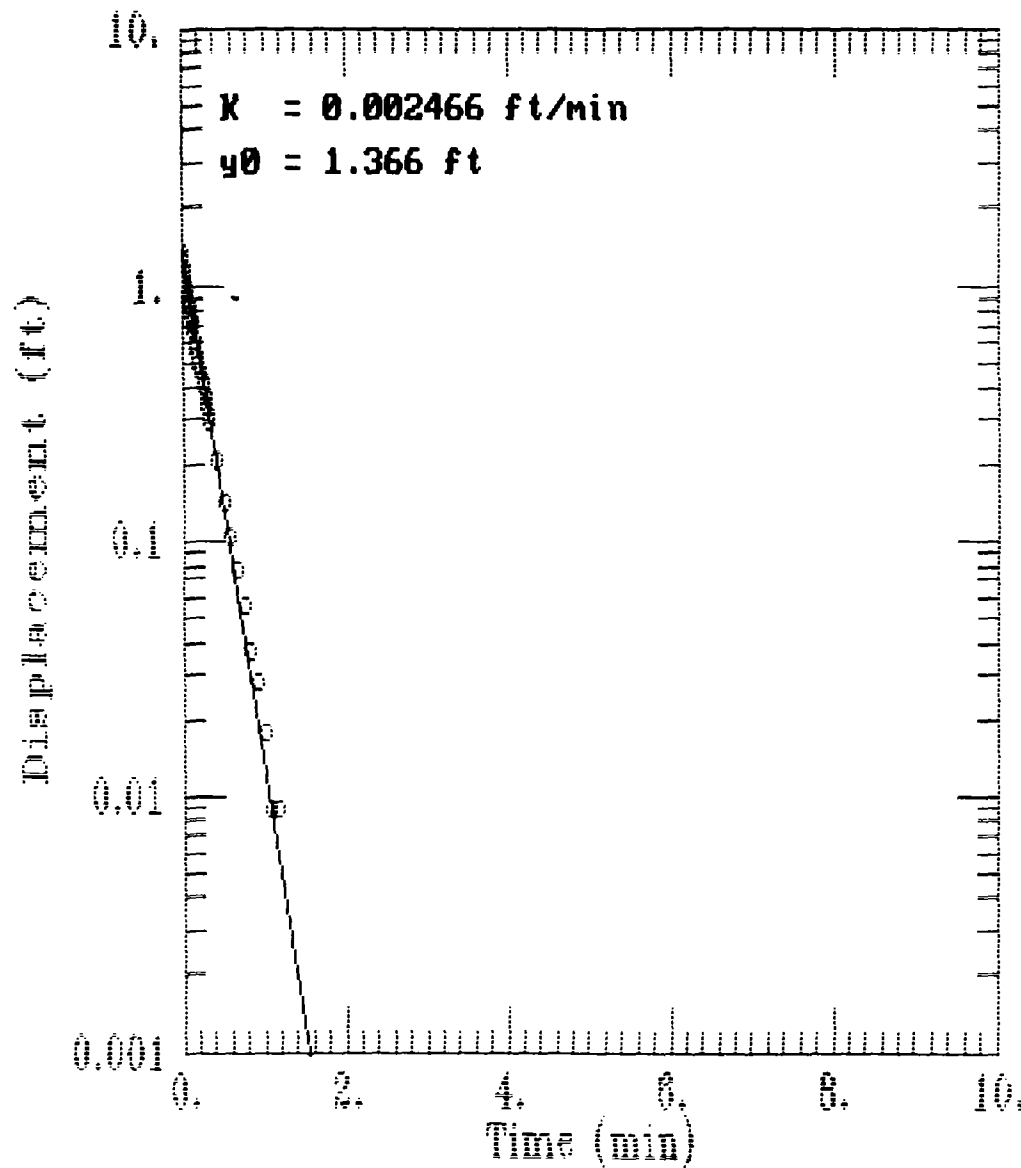


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 GERAGHTY
& MILLER, INC.

 Modeling Group

MONITORING WELL MW18

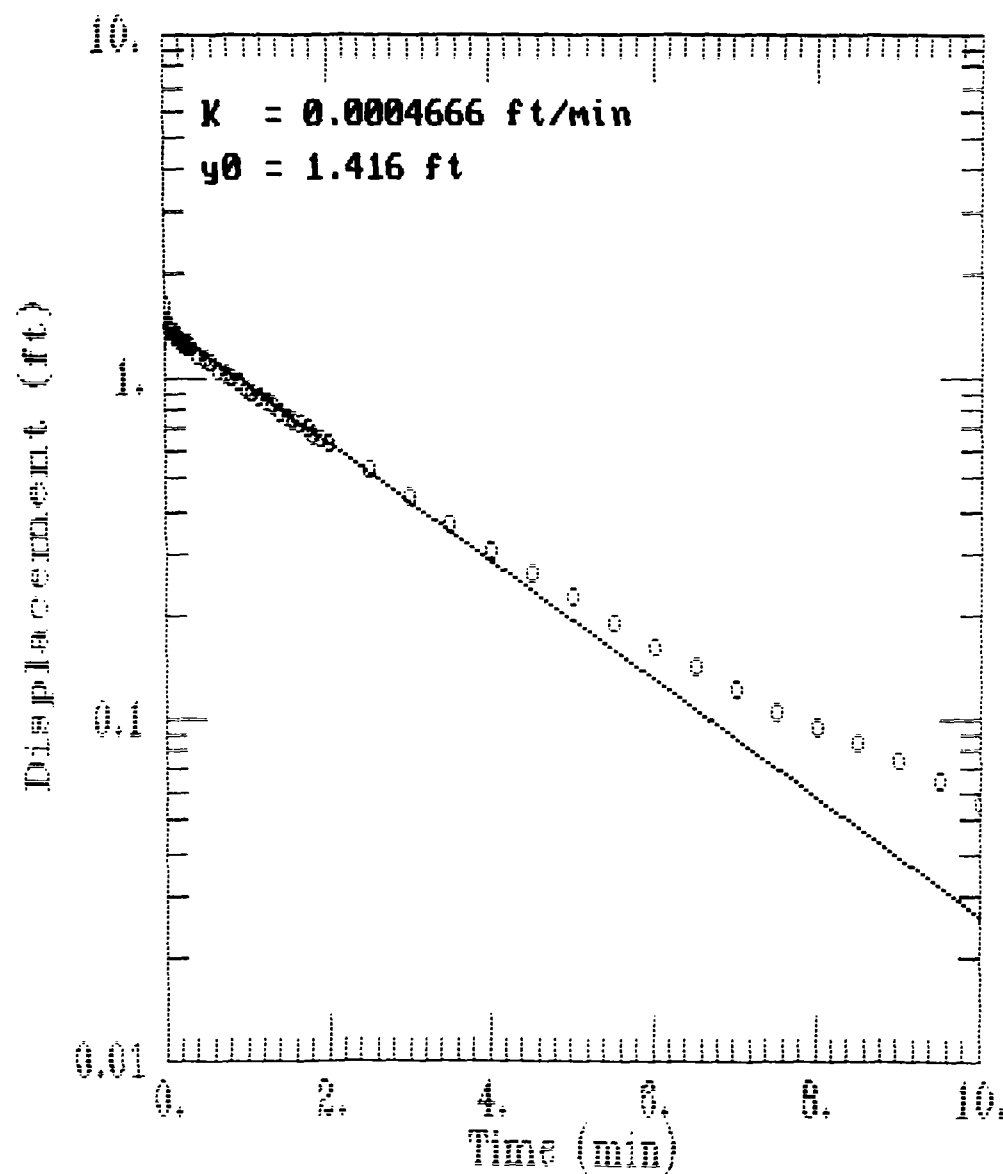


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 Modeling Group

MONITORING WELL 101B

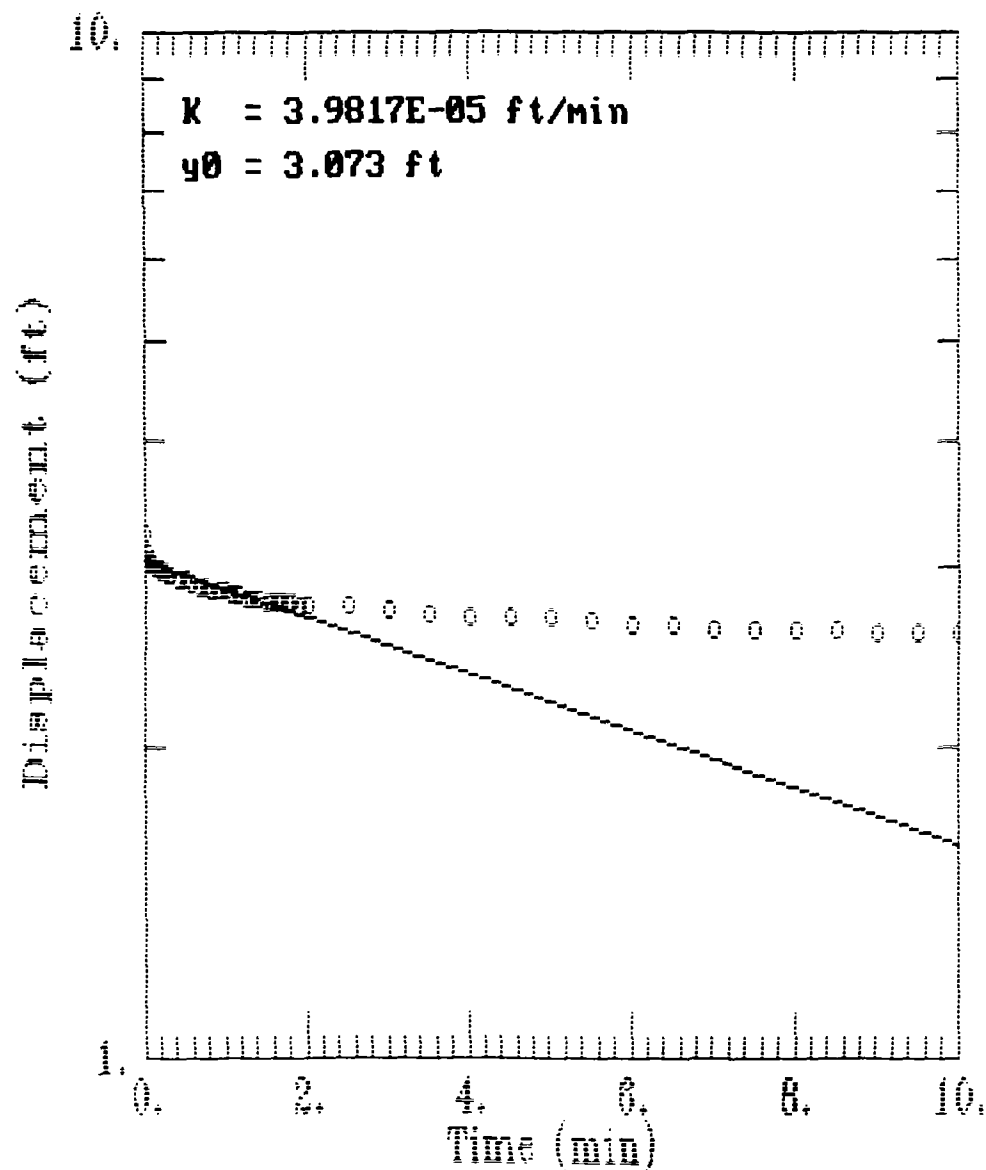


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 GERAGHTY
& MILLER, INC.

 Modeling Group

MONITORING WELL 102A

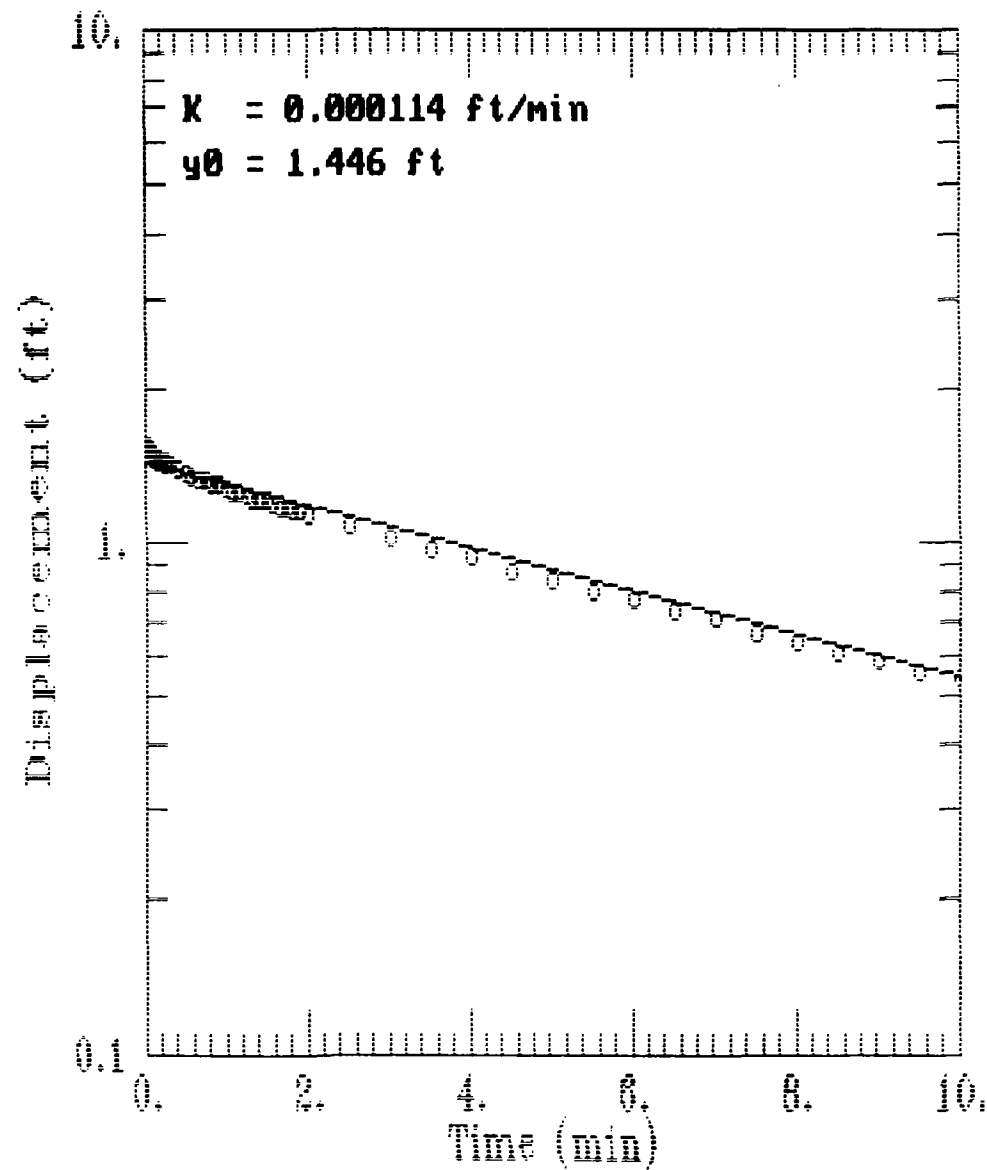


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 GERAGHTY
& MILLER, INC.

 Modeling Group

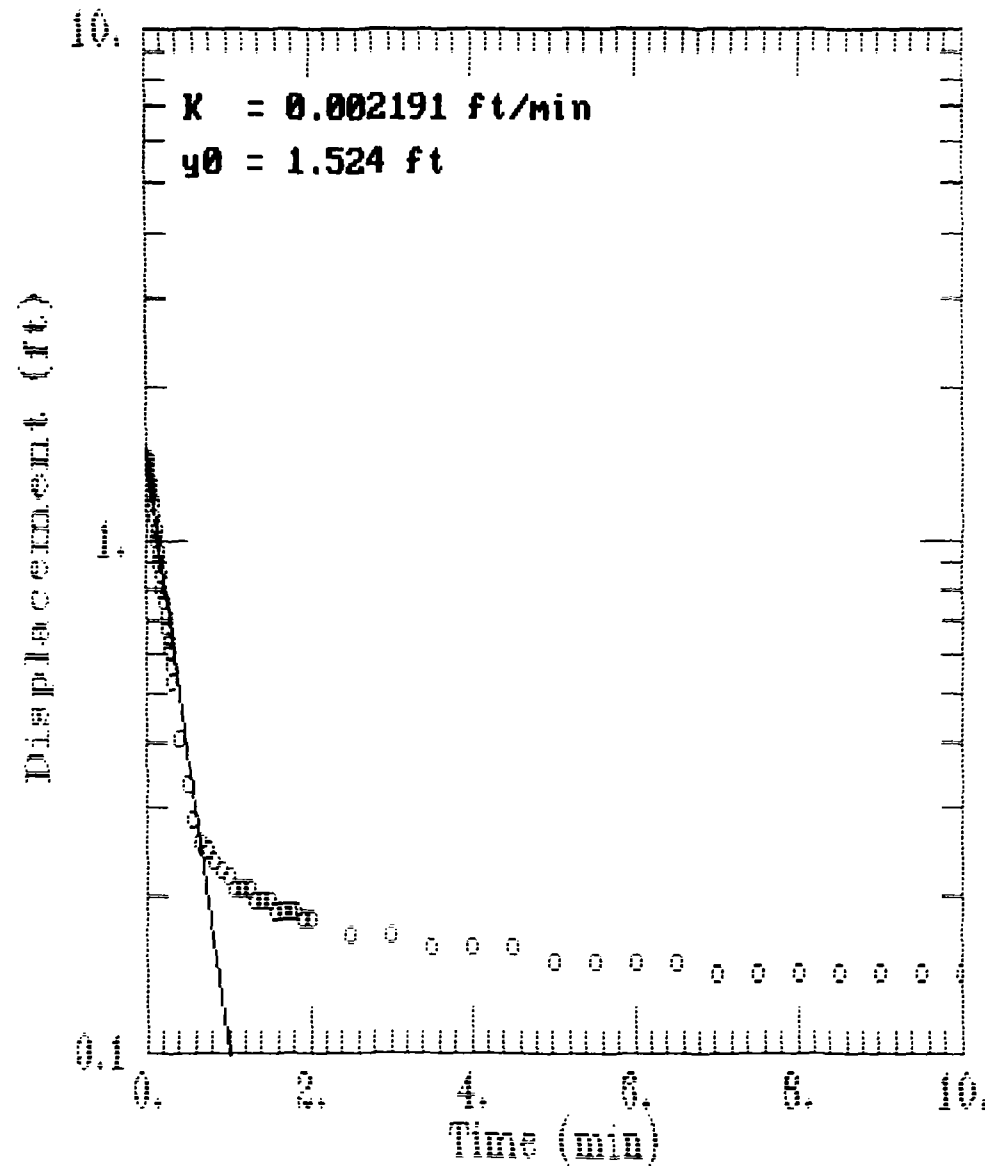
MONITORING WELL 102B



AQTESOLV

 GERAGHTY
& MILLER, INC.
 Modeling Group

MONITORING WELL 103A

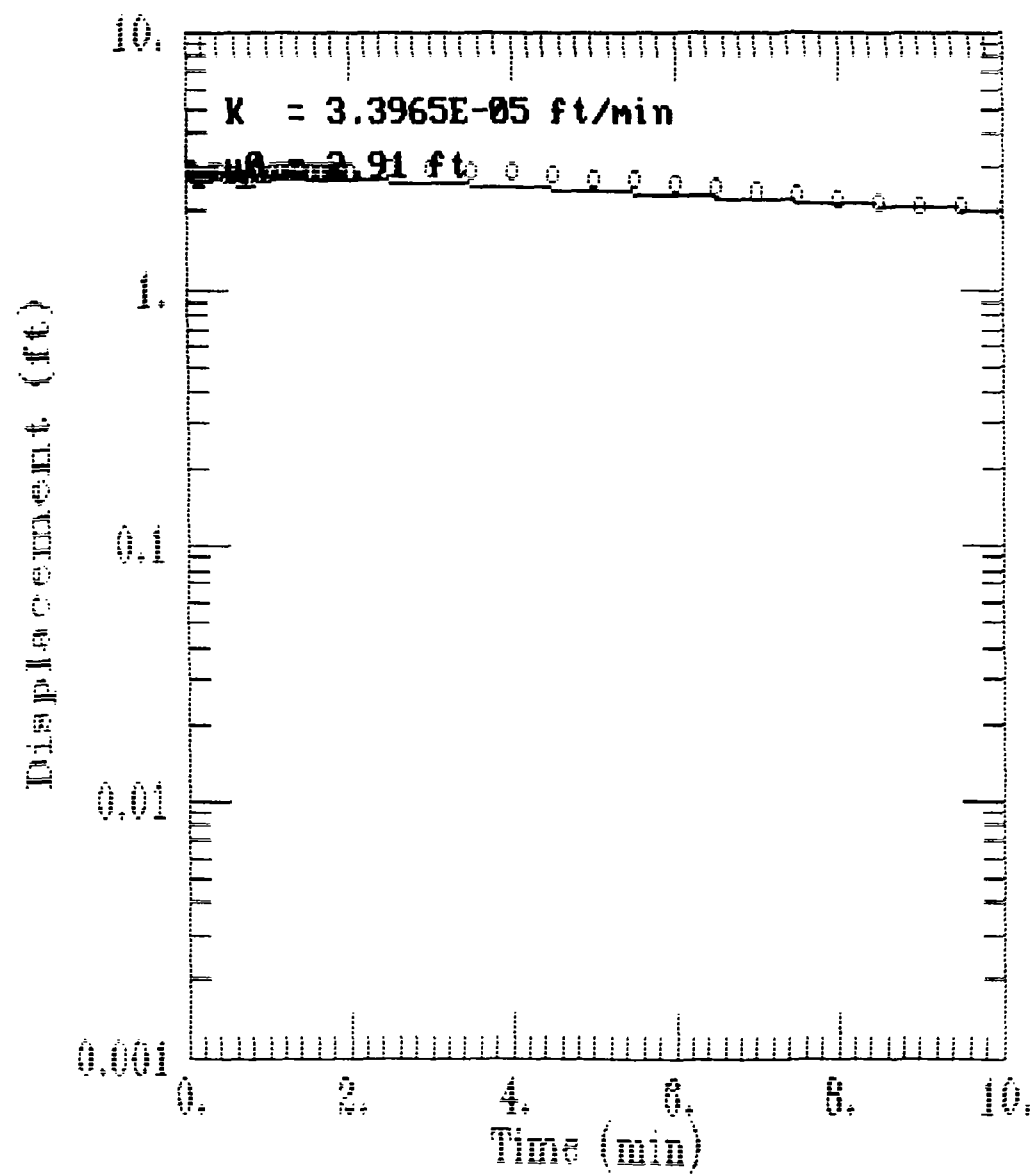


AQTESOLV

GERAGHTY
& MILLER, INC.

Modeling Group

MONITORING WELL 103B

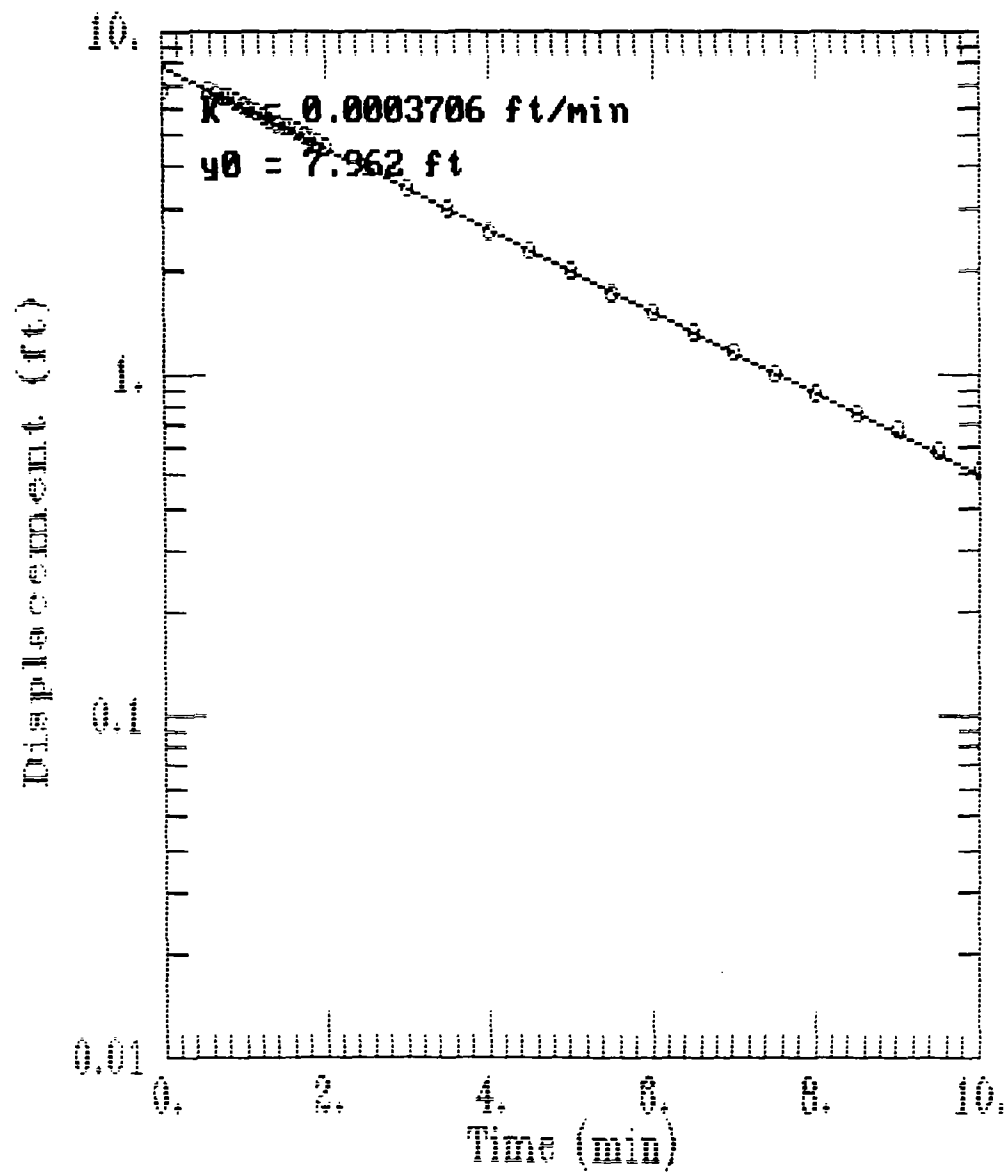


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

MONITORING WELL 103C - FALLING HEAD TEST

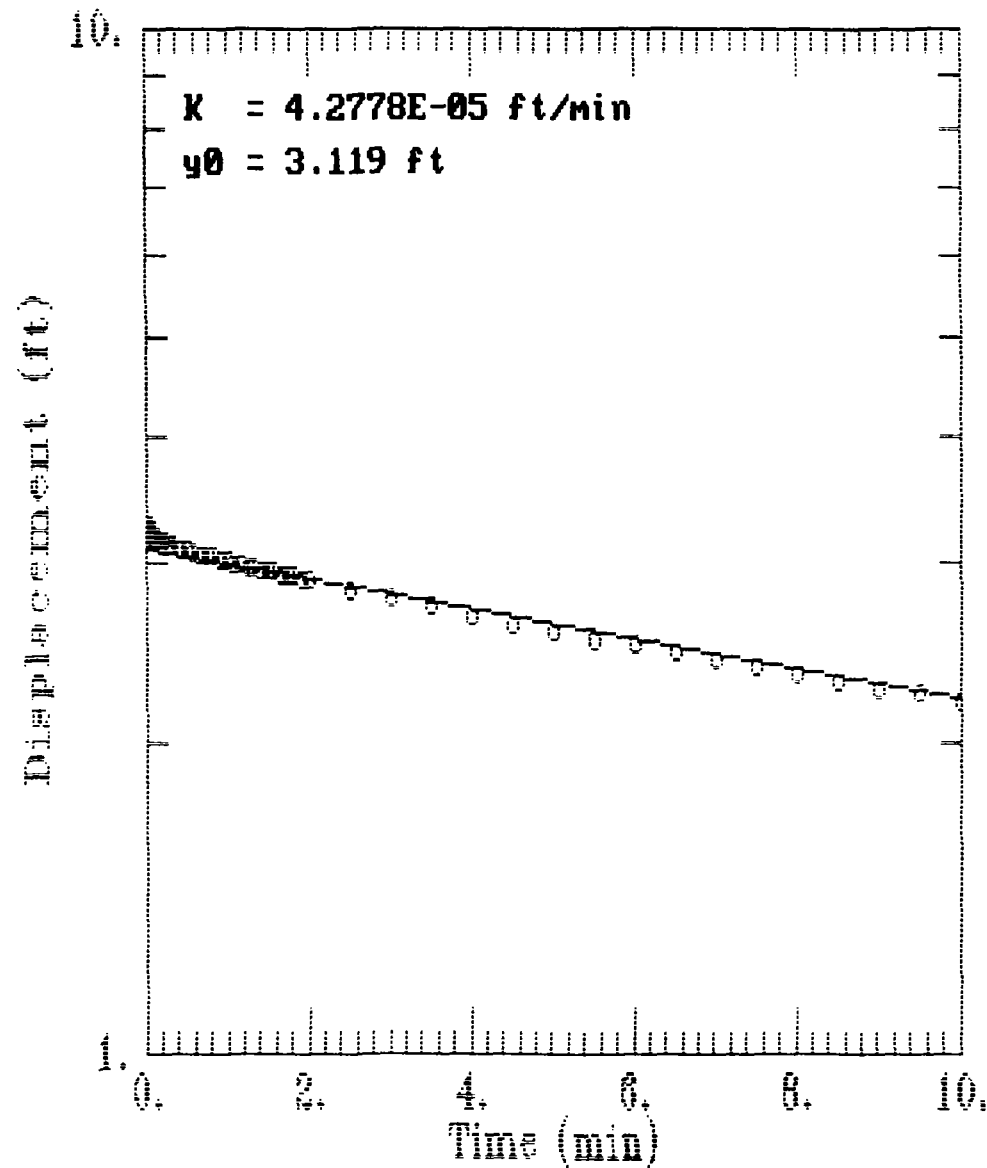


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

MONITORING WELL 105

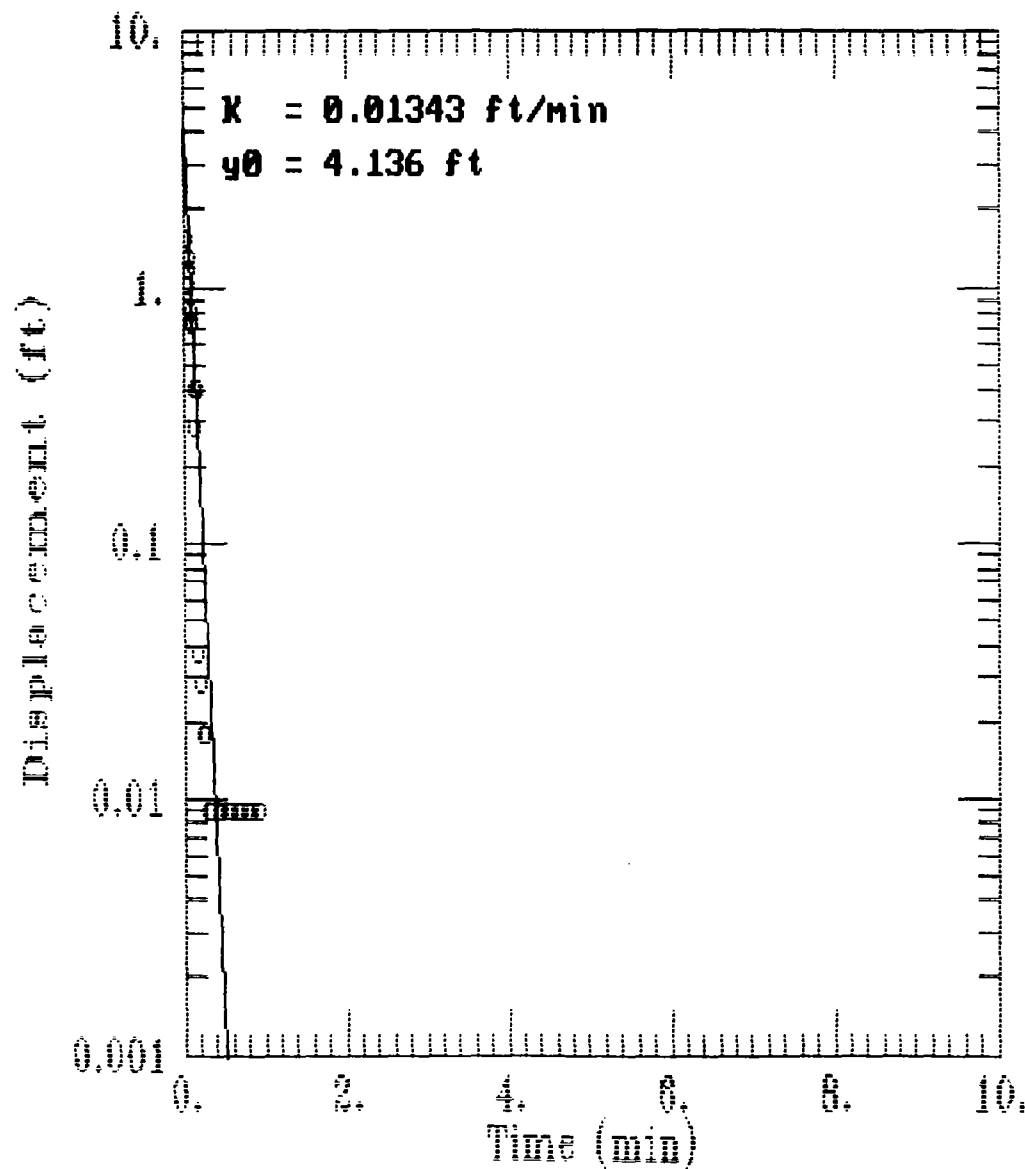


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

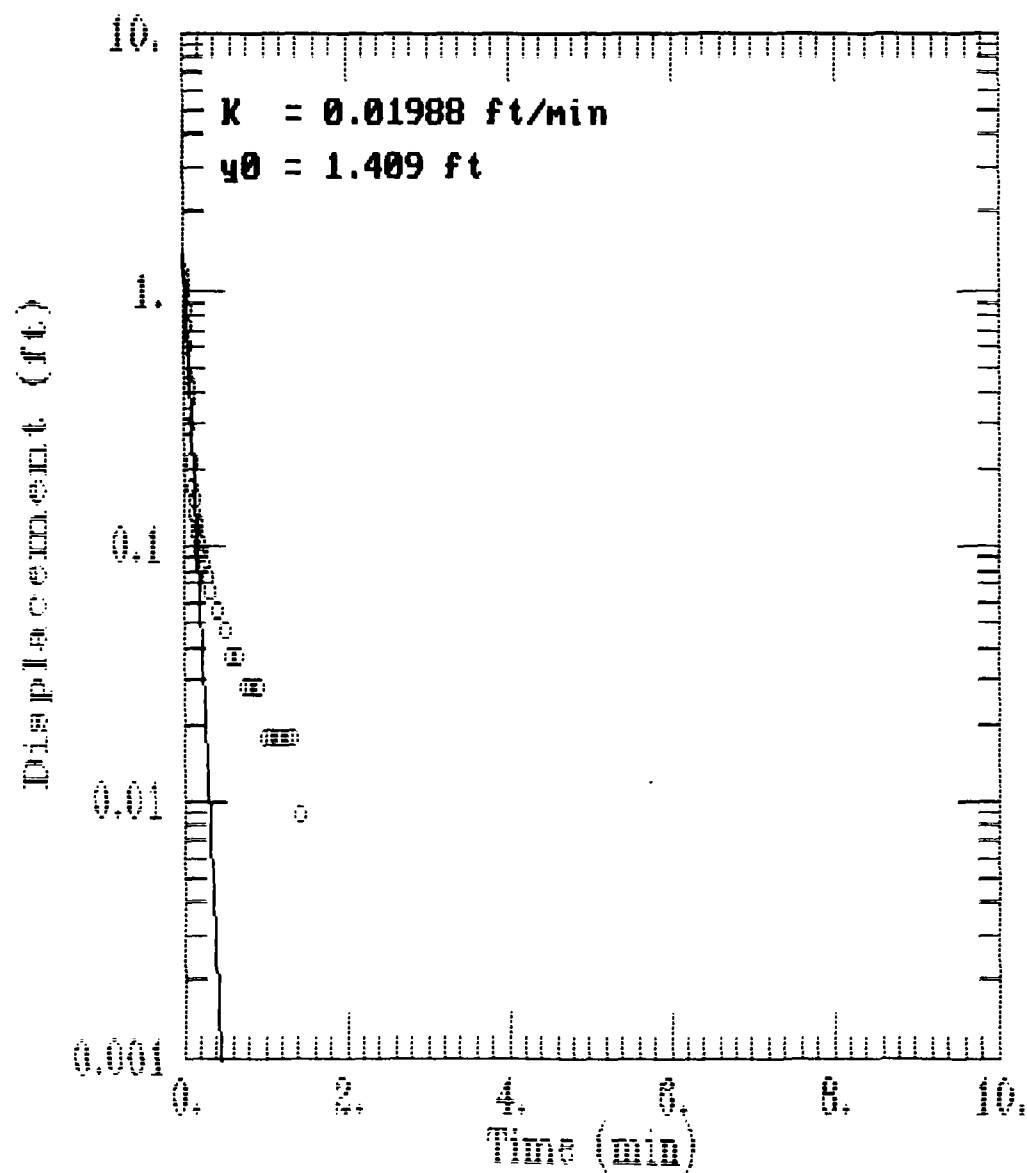
Monitoring Well 106A



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& MILLER, INC.**
 **Modeling Group**

MONITORING WELL 106B



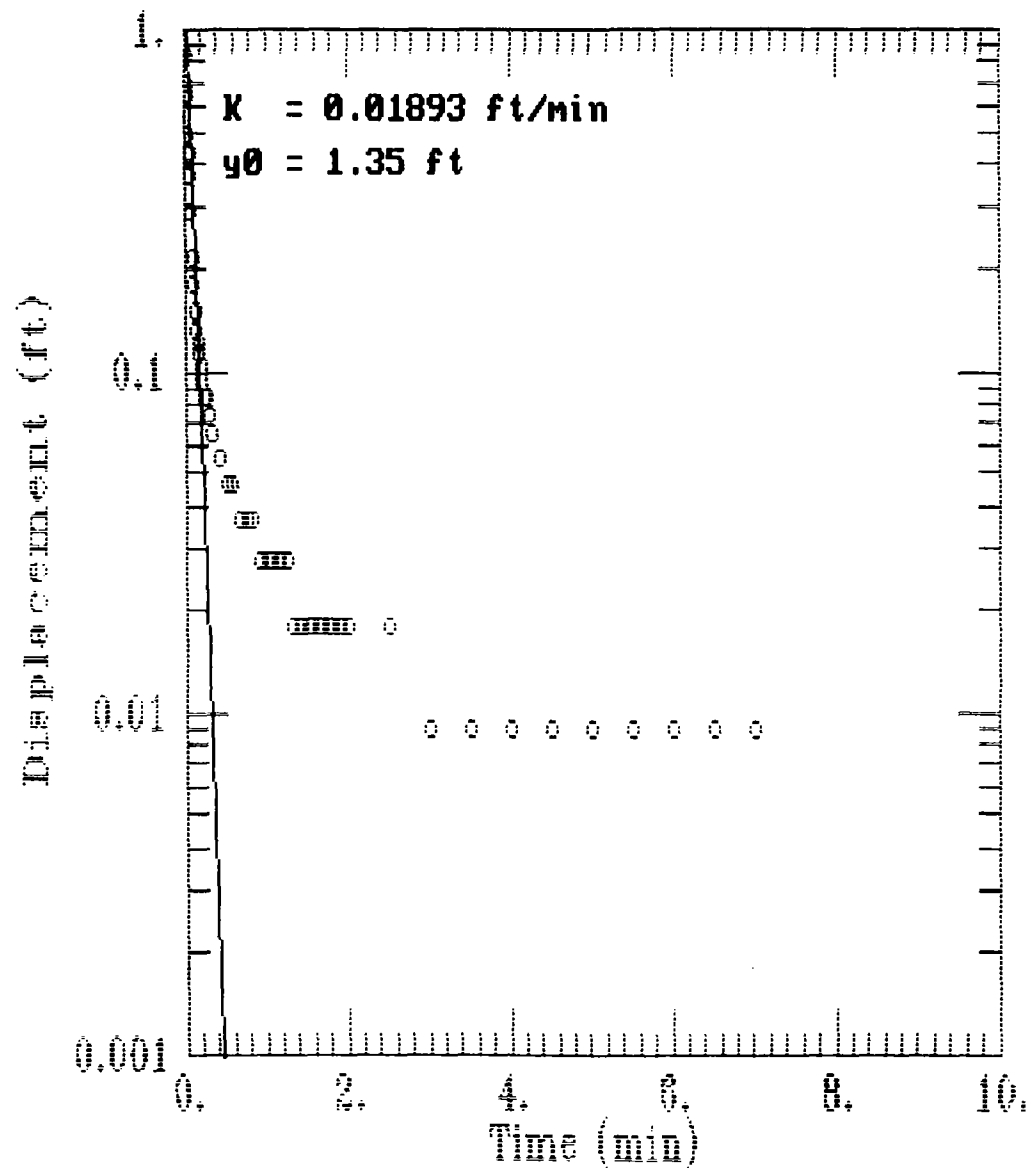
AQTESOLV



GERAGHTY
& MILLER, INC.

Modeling Group

MONITORING WELL 106B (FALLING HEAD TEST)

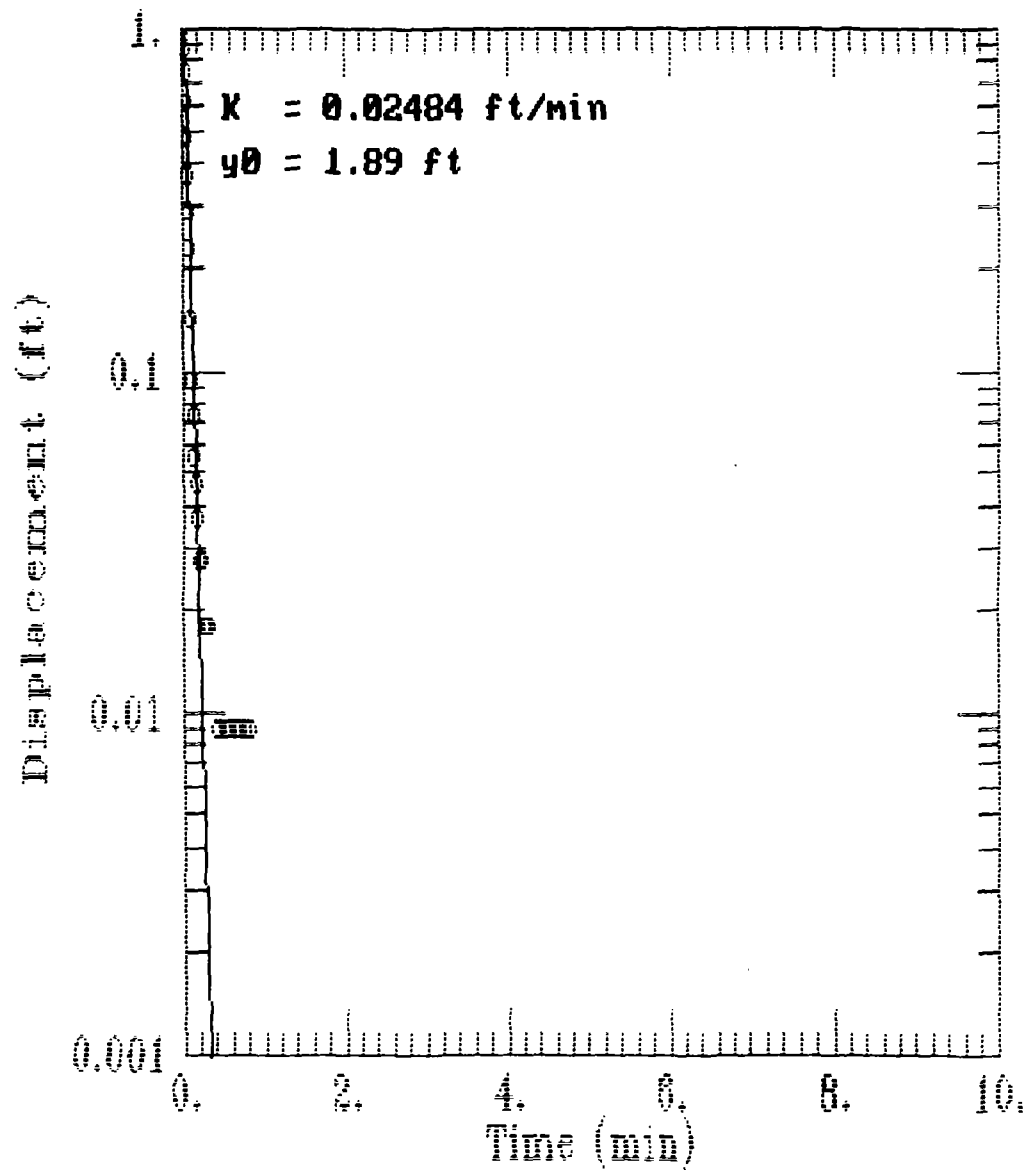


AQTESOLV

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MONITORING WELL 107



AQTESOLV

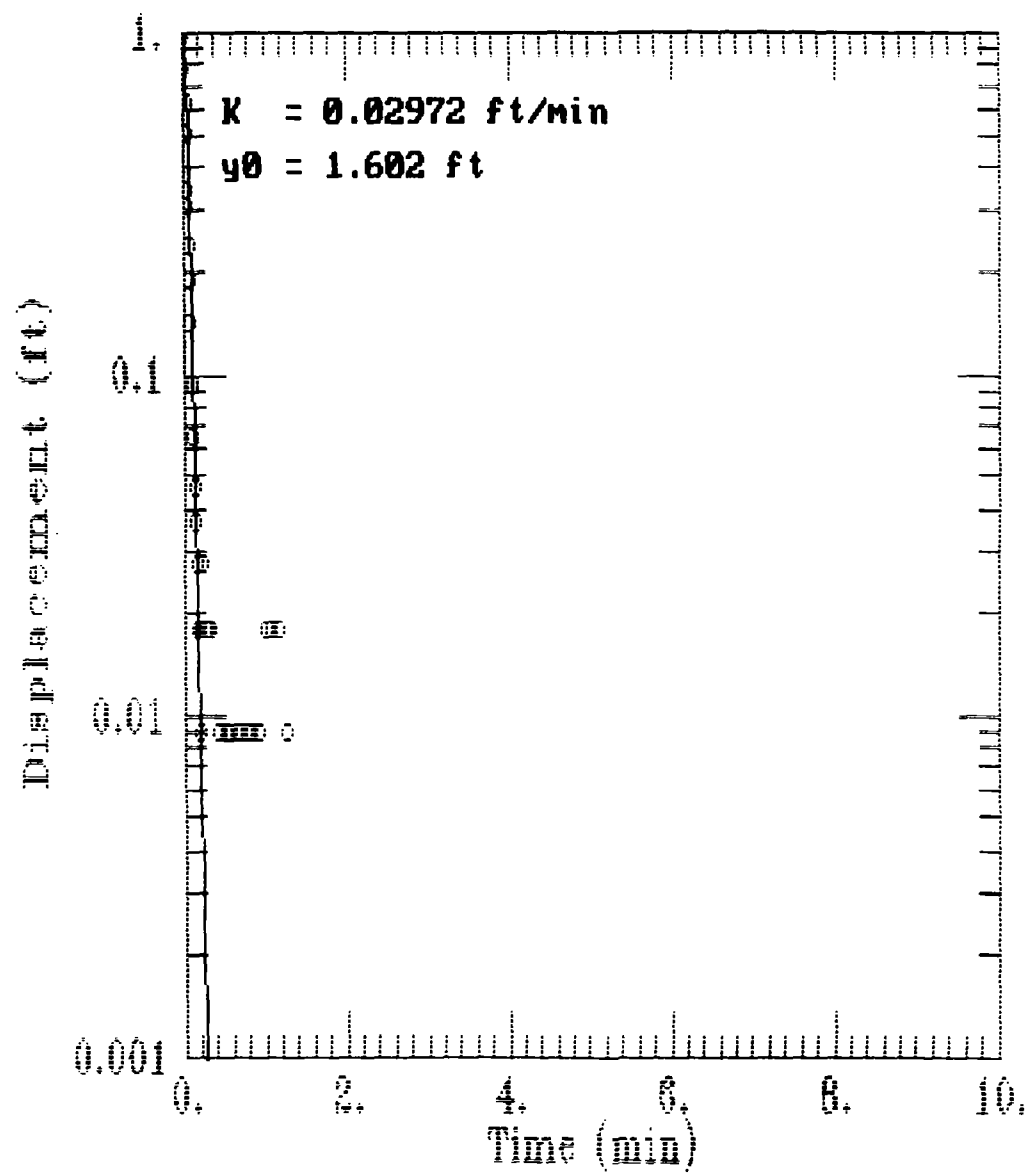


GERAGHTY
& MILLER, INC.



Modeling Group

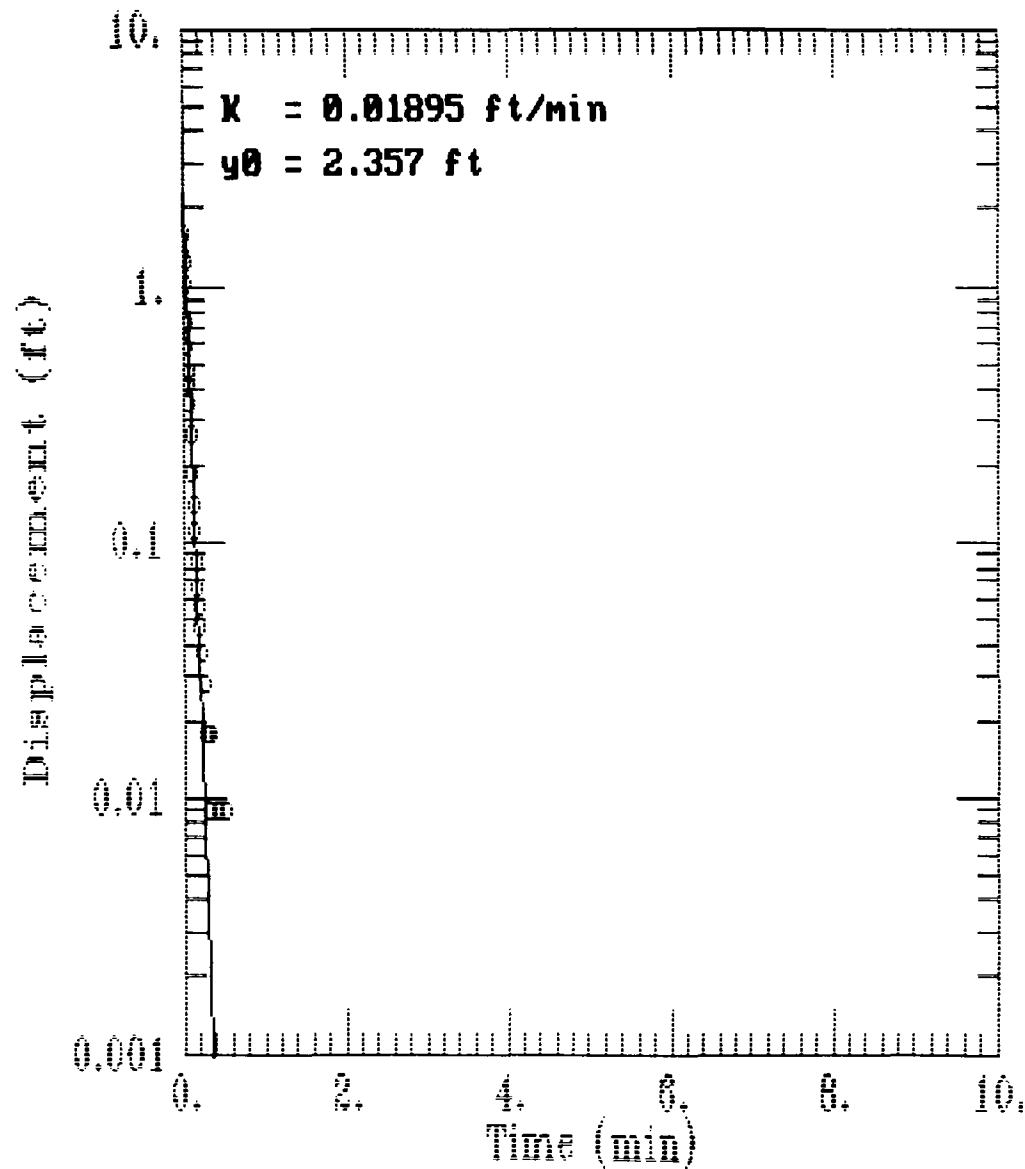
MONITORING WELL 107 (FALLING HEAD TEST)



AQTESOLV

 GERAGHTY
& MILLER, INC.
 Modeling Group

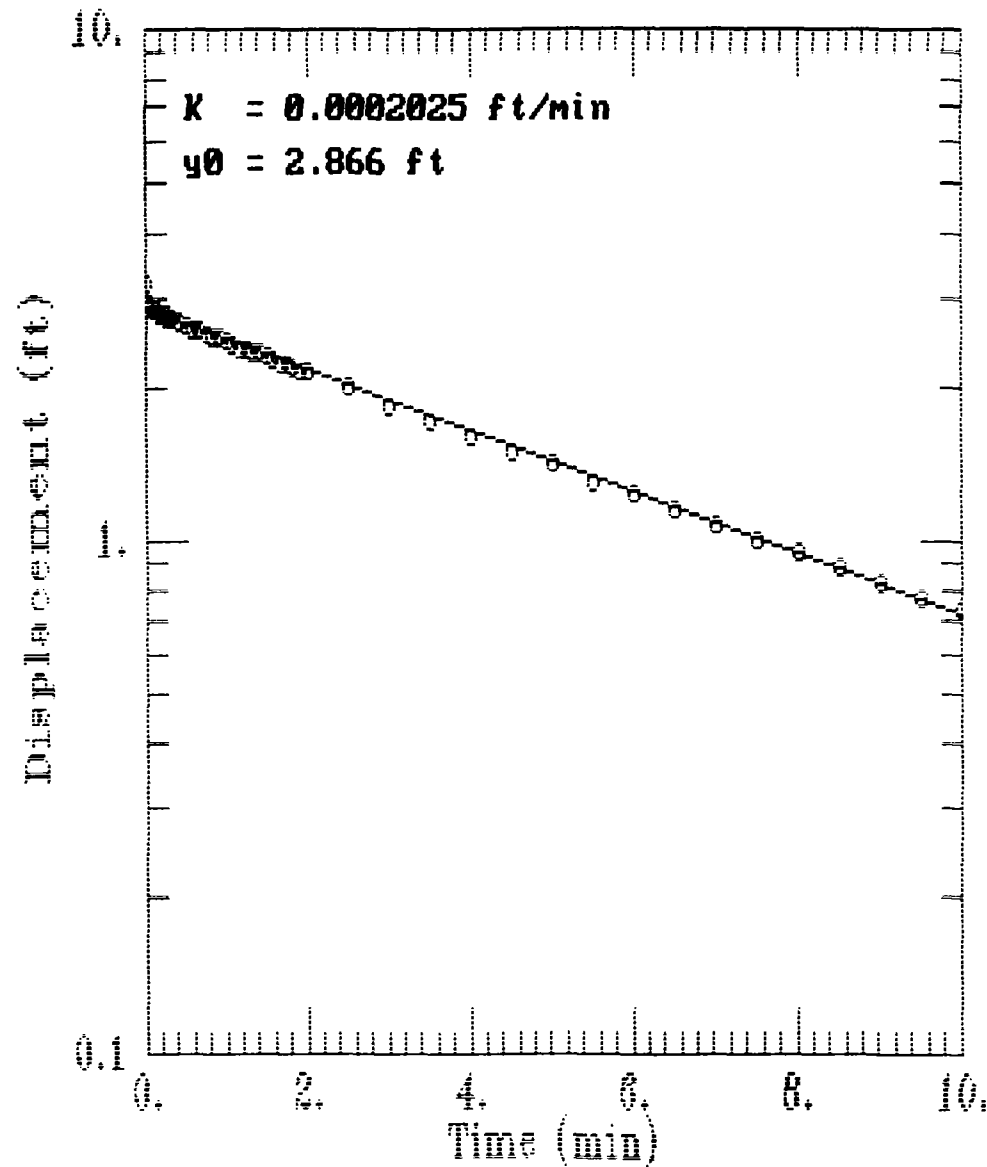
MONITORING WELL - 108A



AQTESOLV

 **GERAGHTY
& MILLER, INC.**
 **Modeling Group**

MONITORING WELL 108B

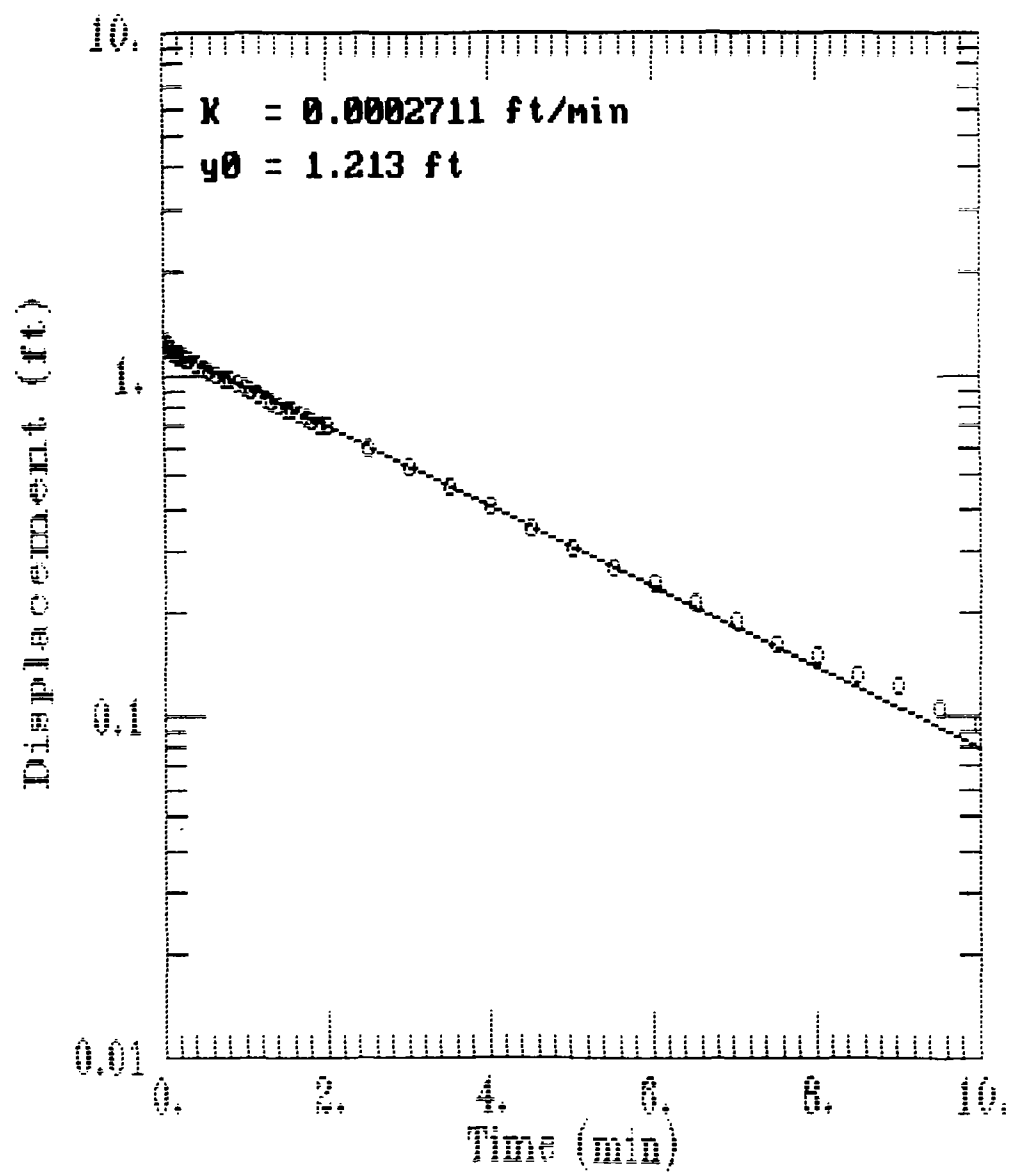


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

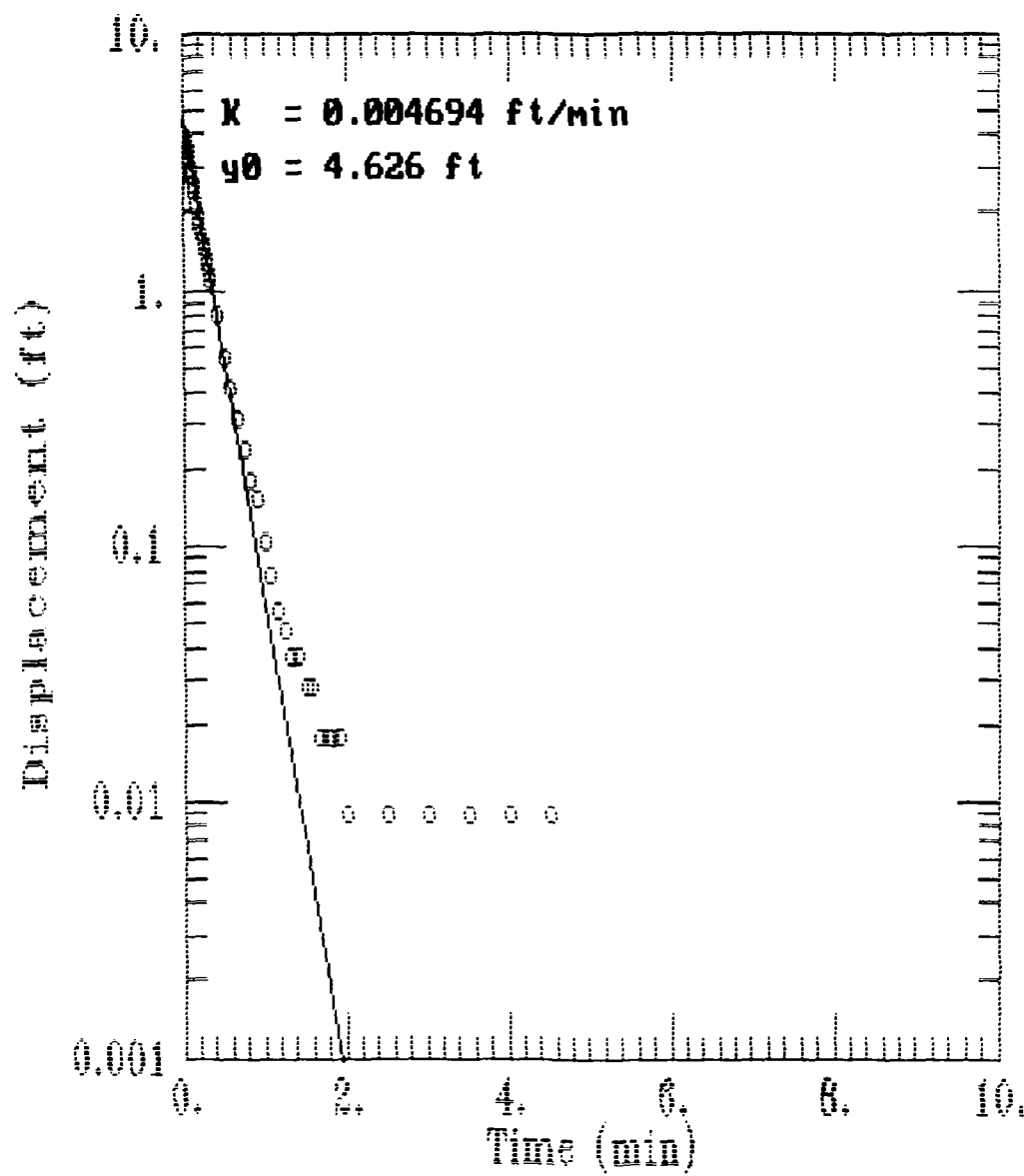
MONITORING WELL 109A



AQTESOLV

 GERAGHTY
& MILLER, INC.
 Modeling Group

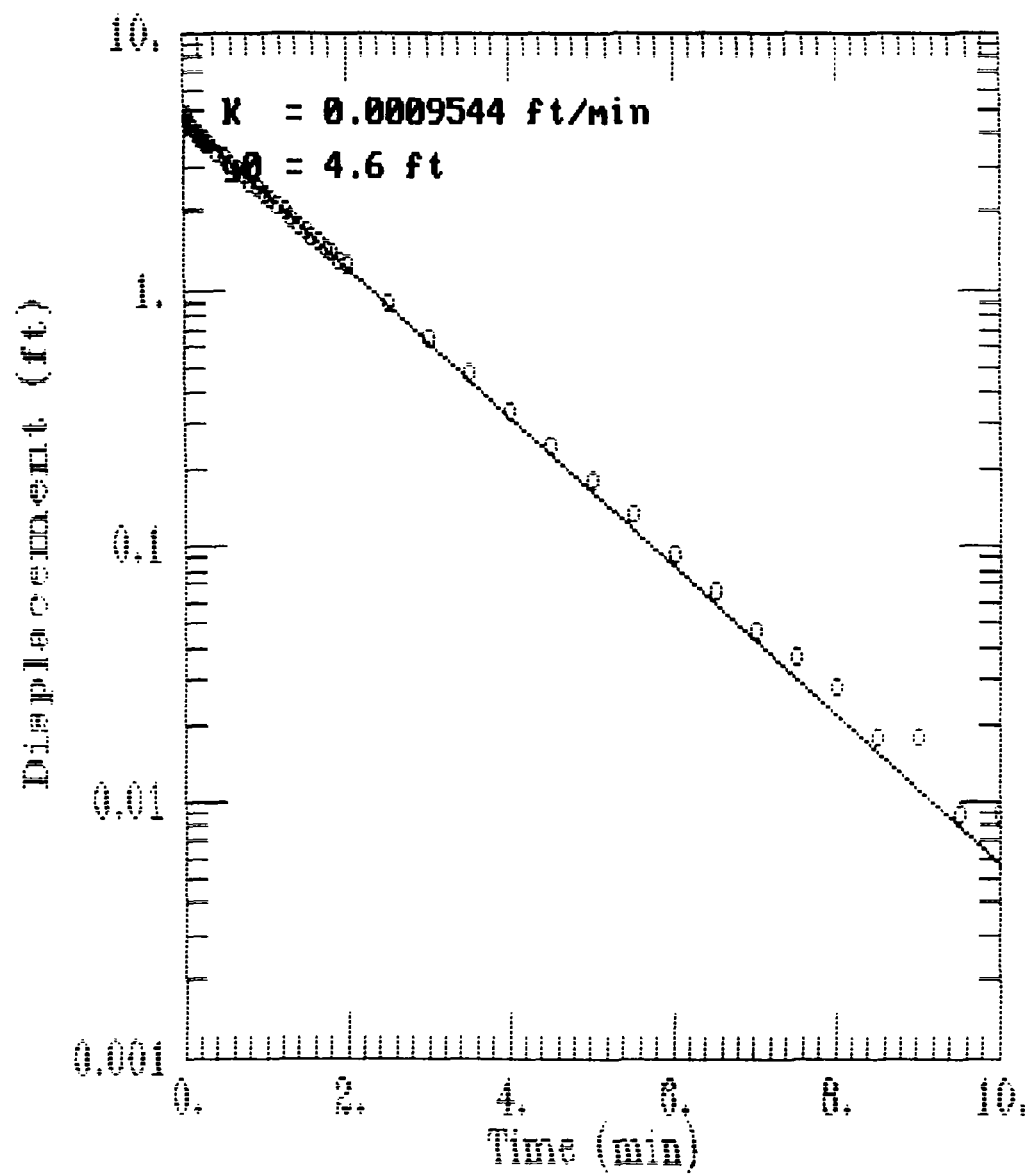
MONITORING WELL 109B



AQTESOLV

 GERAGHTY
& MILLER, INC.
 Modeling Group

MONITORING WELL 109C

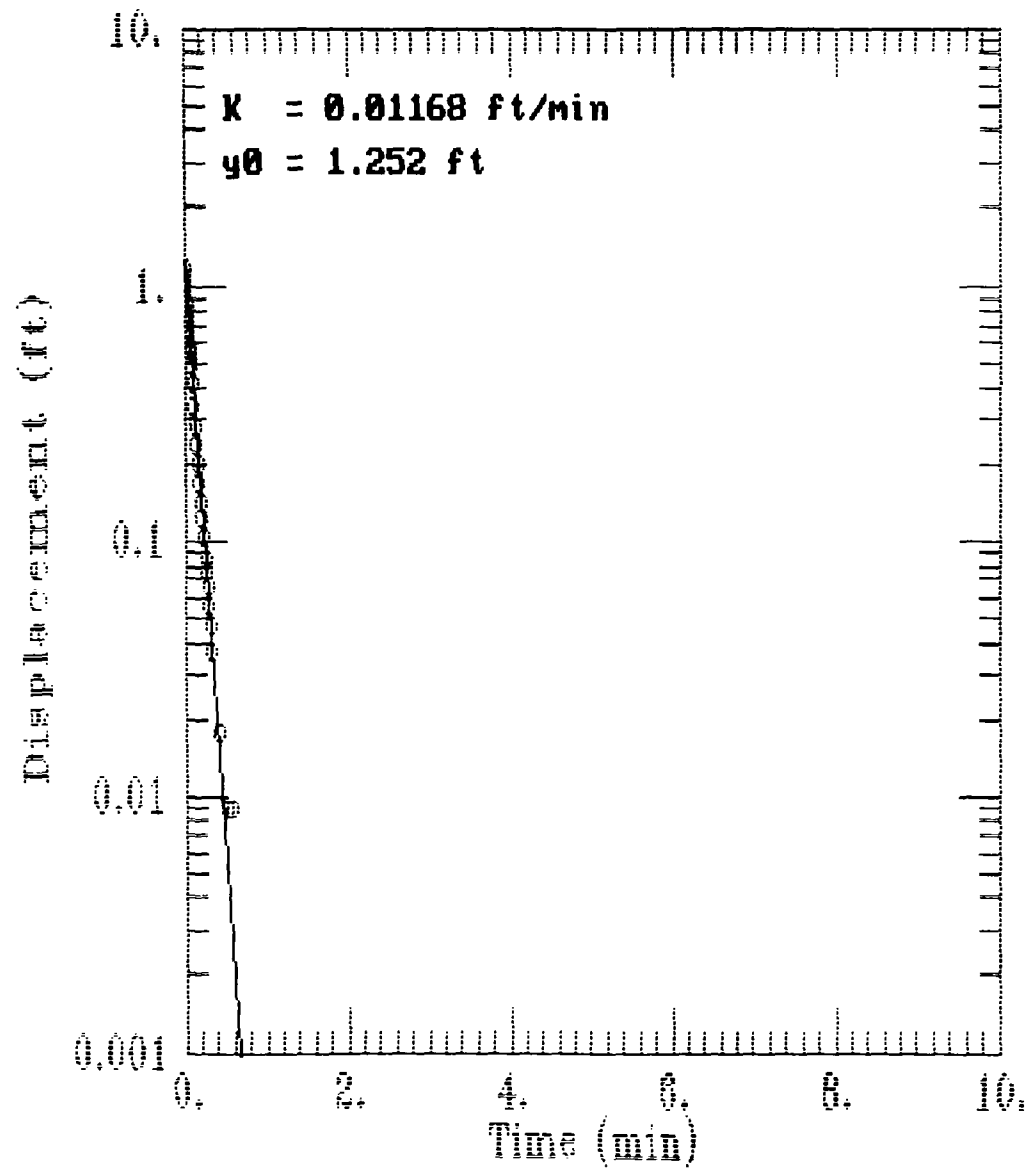


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

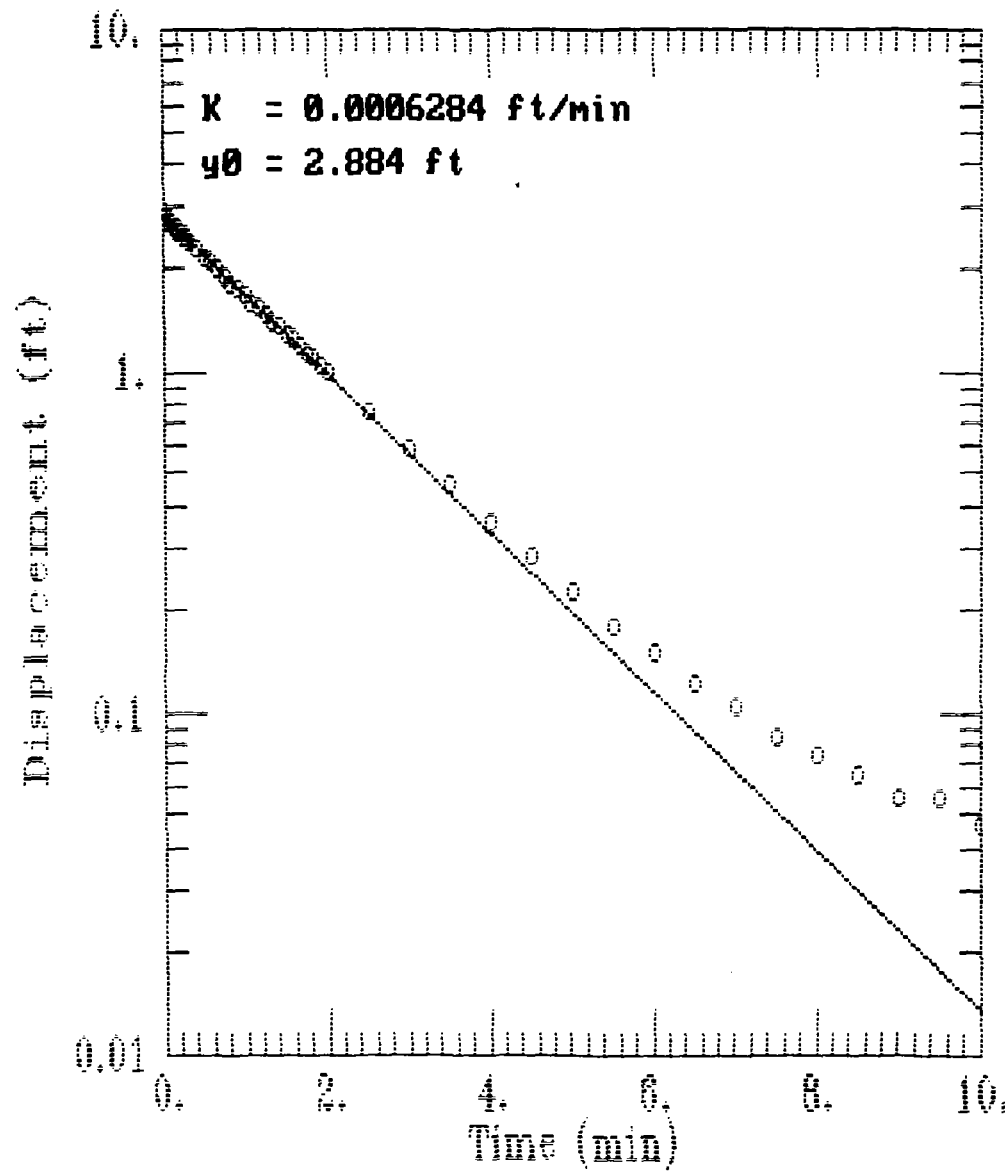
MONITORING WELL 110A



AQTESOLV

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 Modeling Group

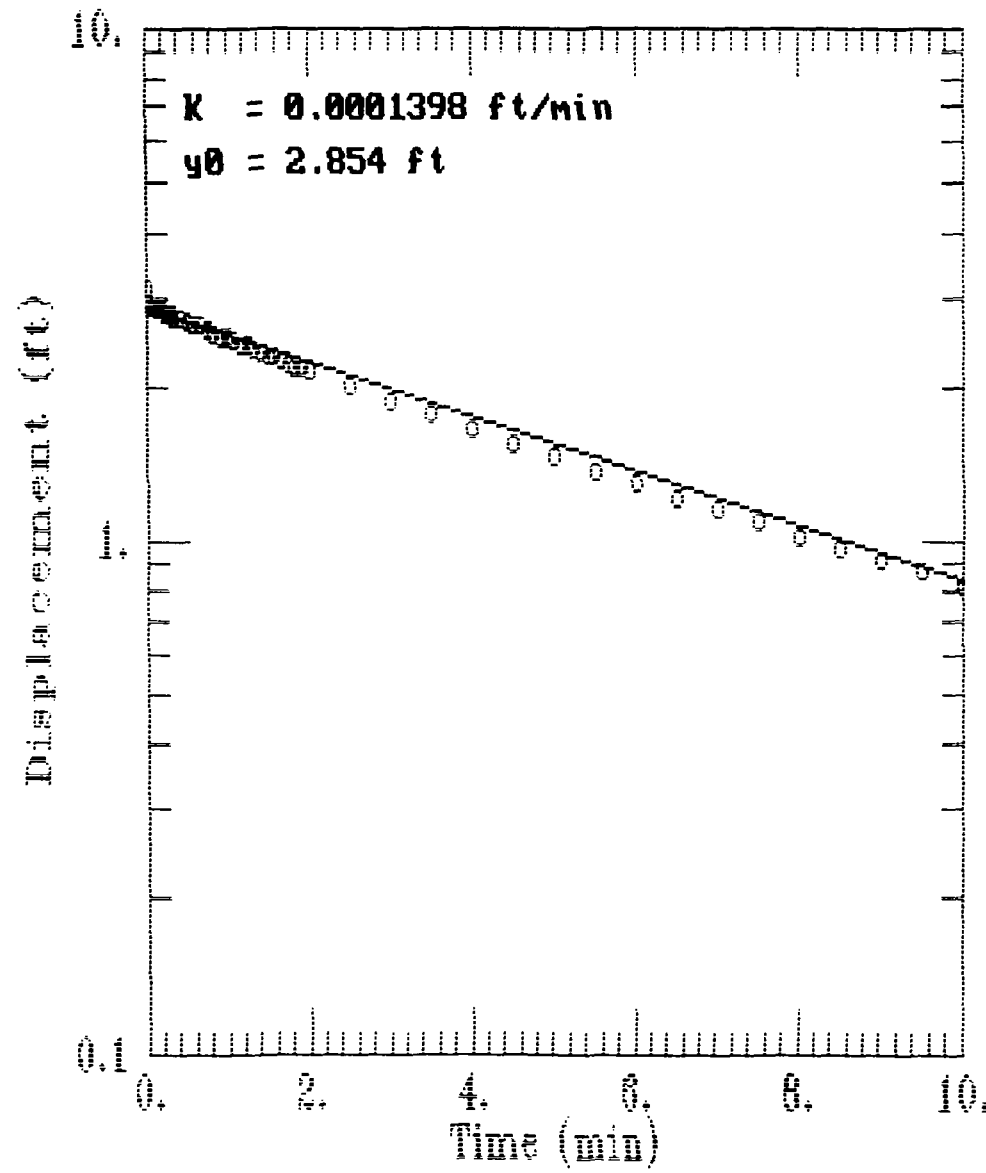
MONITORING WELL 110B



AQTESOLV

 GERAGHTY
& MILLER, INC.
 Modeling Group

MONITORING WELL 111

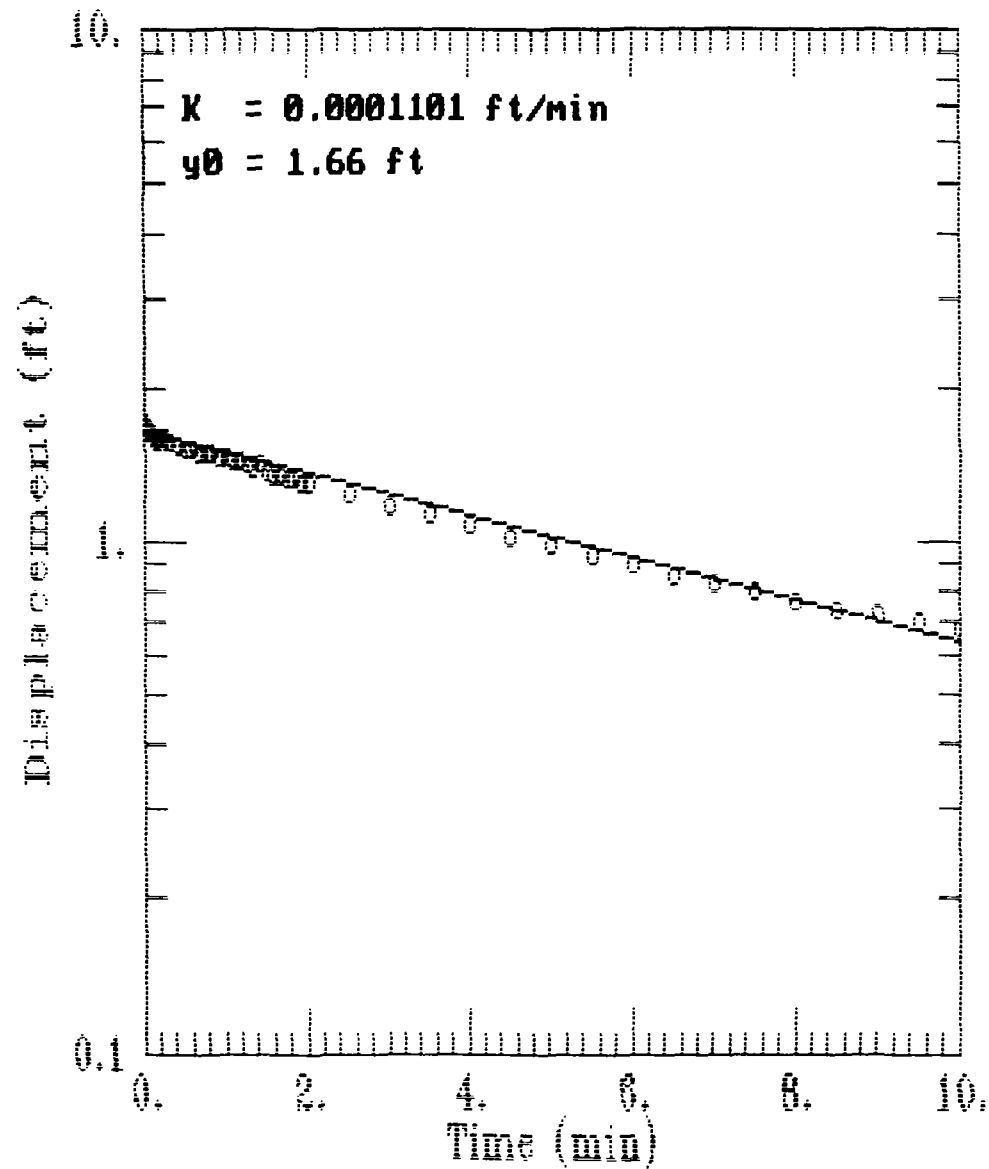


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

MONITORING WELL 112



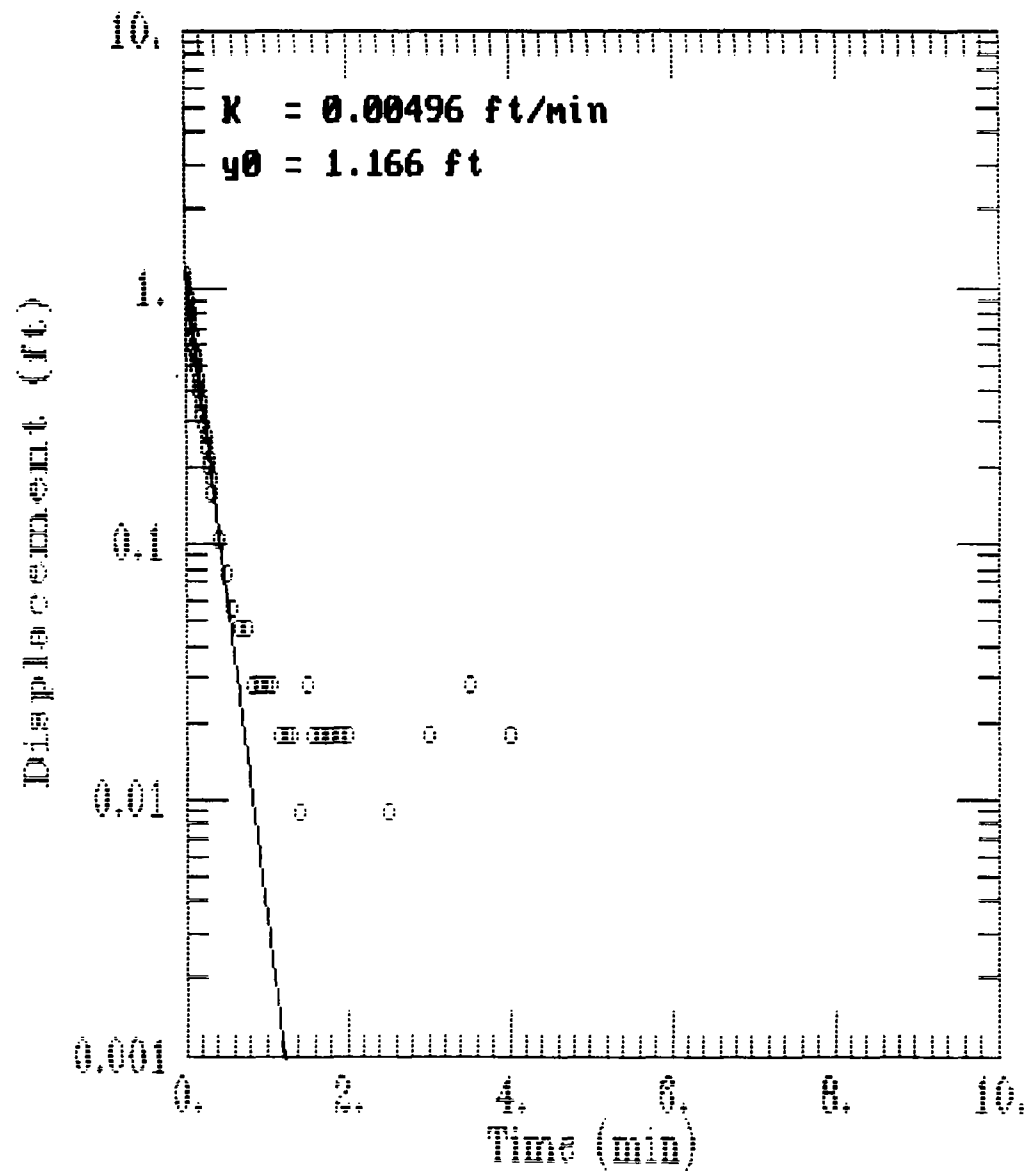
AQTESOLV



GERAGHTY
& MILLER, INC.

Modeling Group

MONITORING WELL 113A



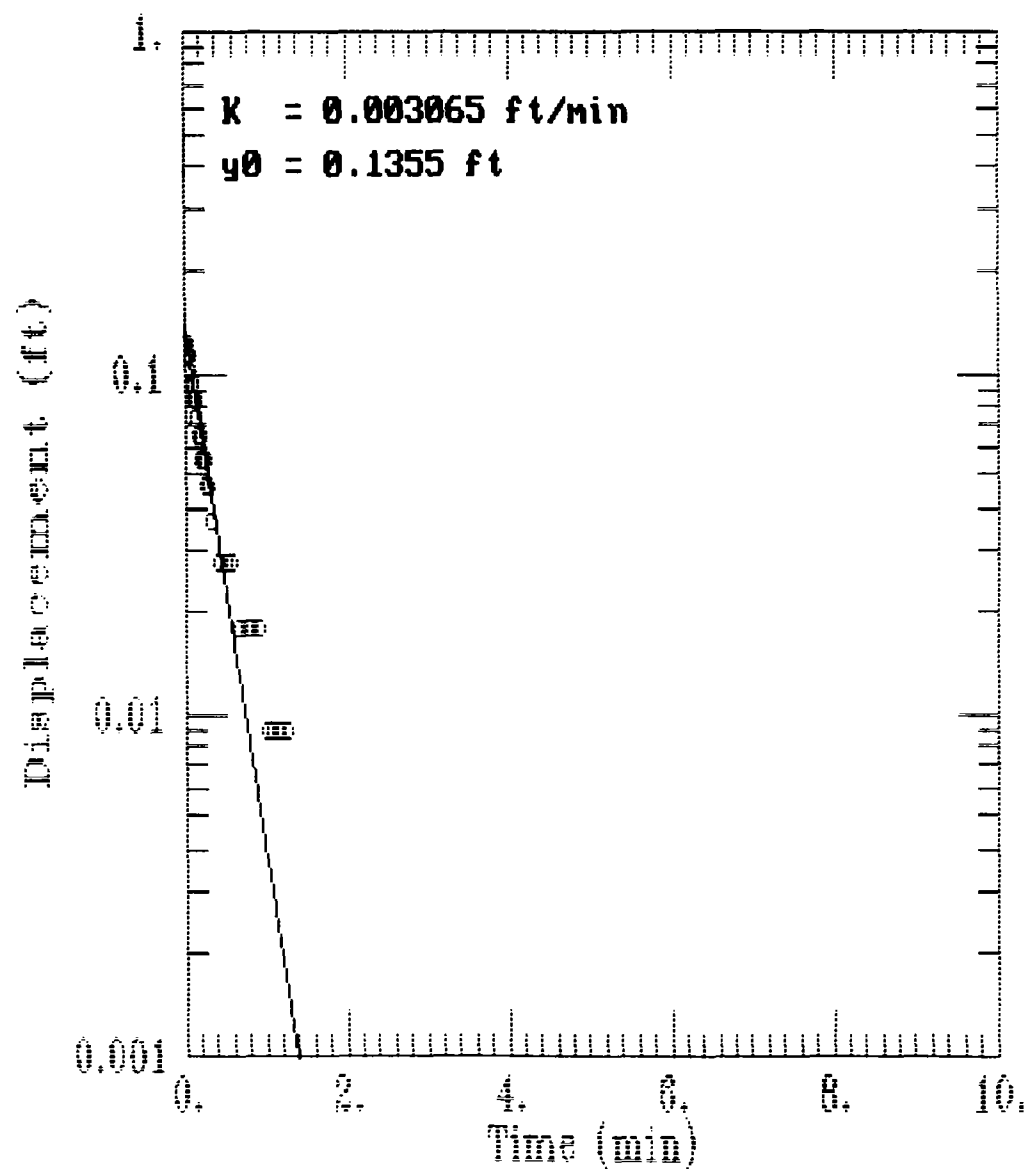
AQTESOLV



GERAGHTY
& MILLER, INC.

Modeling Group

MONITORING WELL 113A (FALLING HEAD TEST)



AQTESOLV

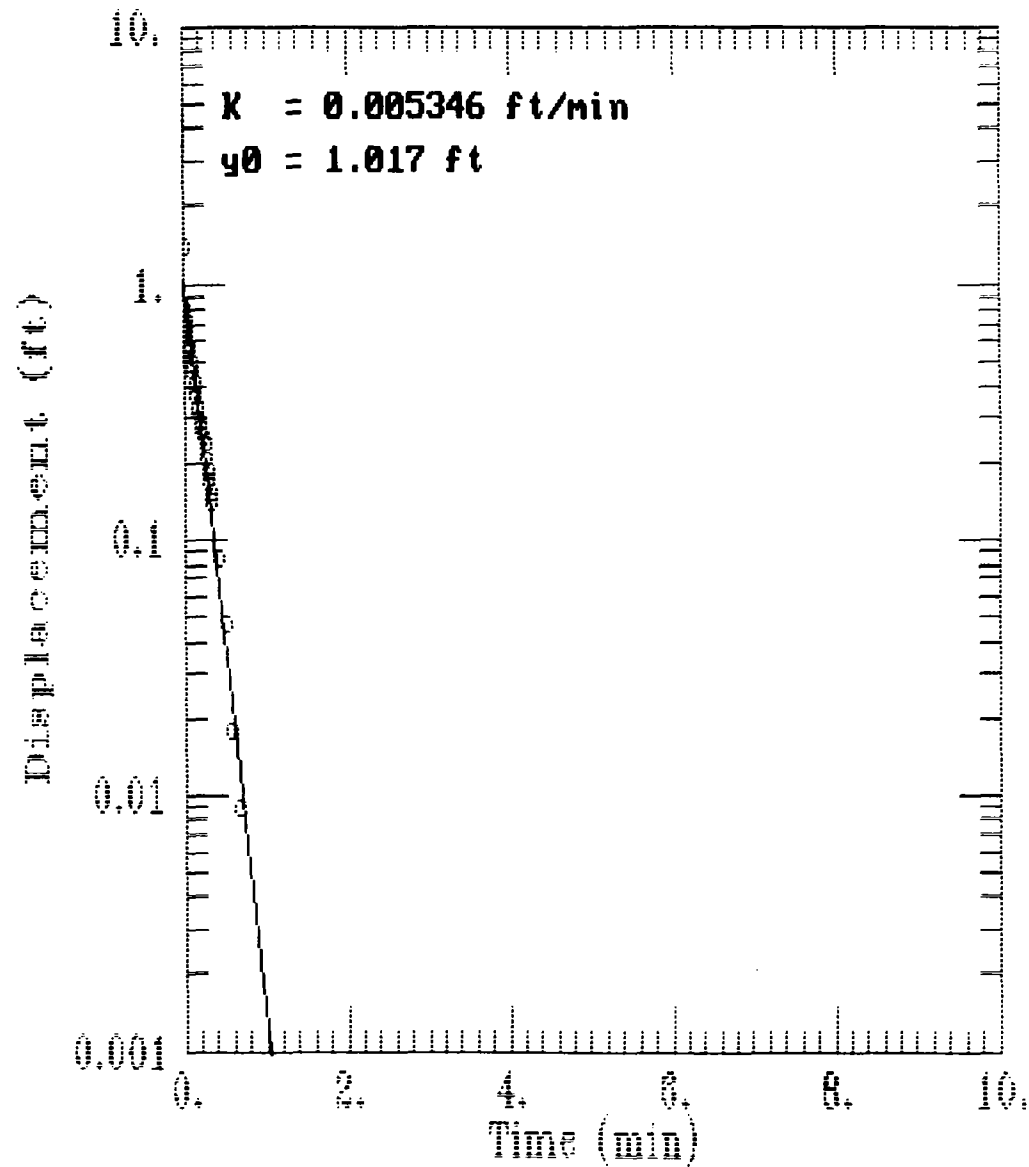


GERAGHTY
& MILLER, INC.



Modeling Group

MONITORING WELL 114A



AQTESOLV

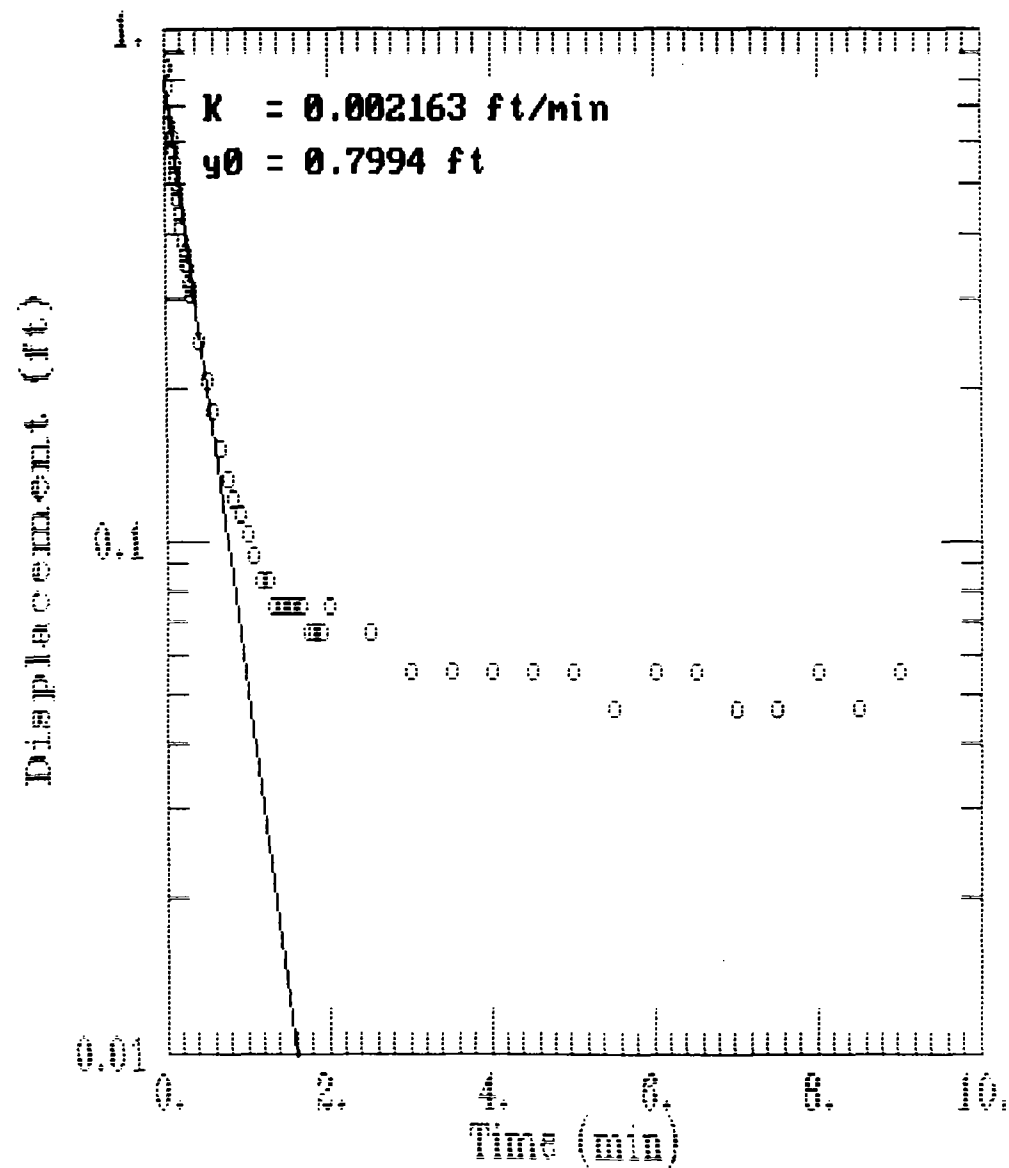


GERAGHTY
& MILLER, INC.



Modeling Group

MONITORING WELL 114A (FALLING HEAD TEST)



AQTESOLV

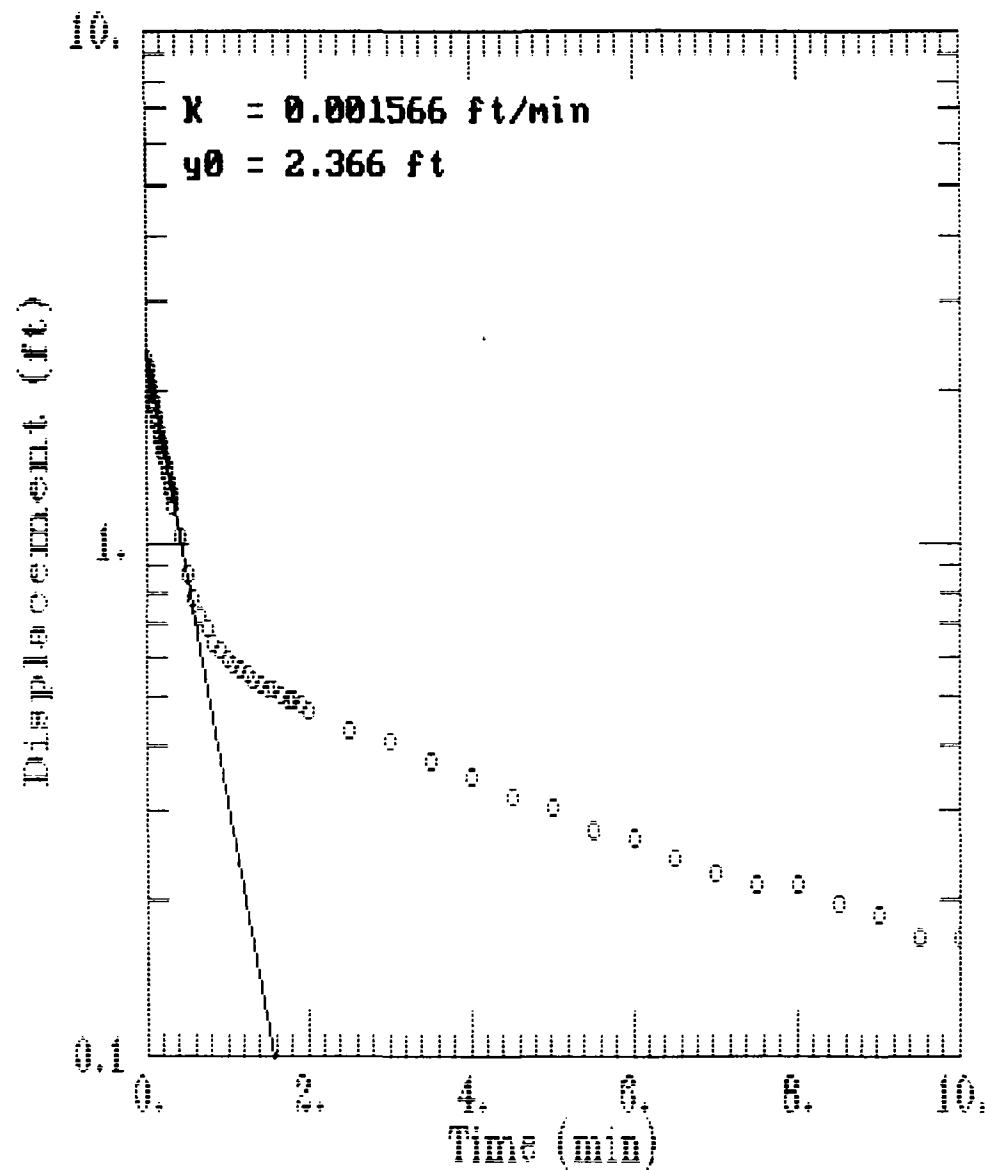


GERAGHTY
& MILLER, INC.



Modeling Group

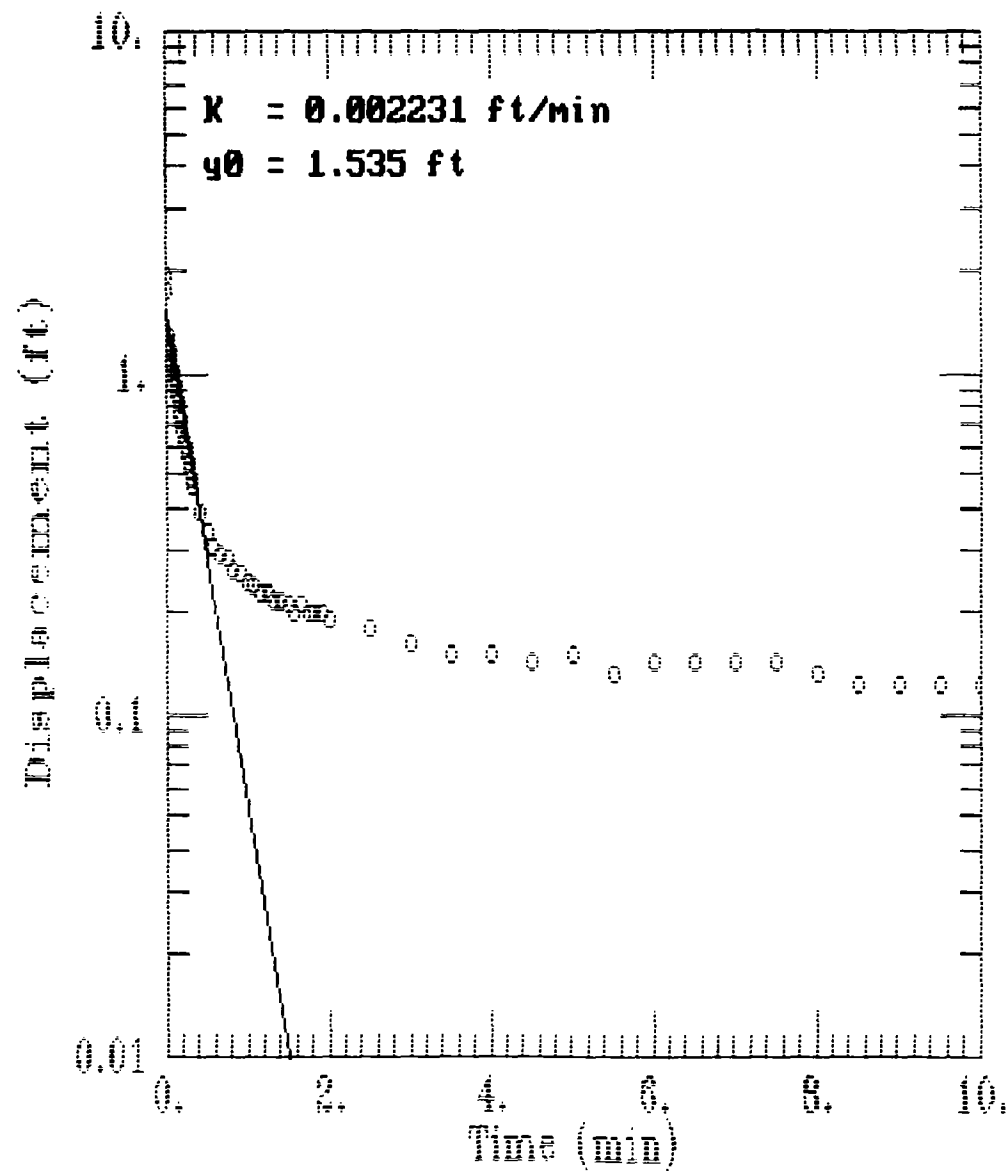
Monitoring Well 115A



AQTESOLV

 GERAGHTY
& MILLER, INC.
Modeling Group

MONITORING WELL 115A

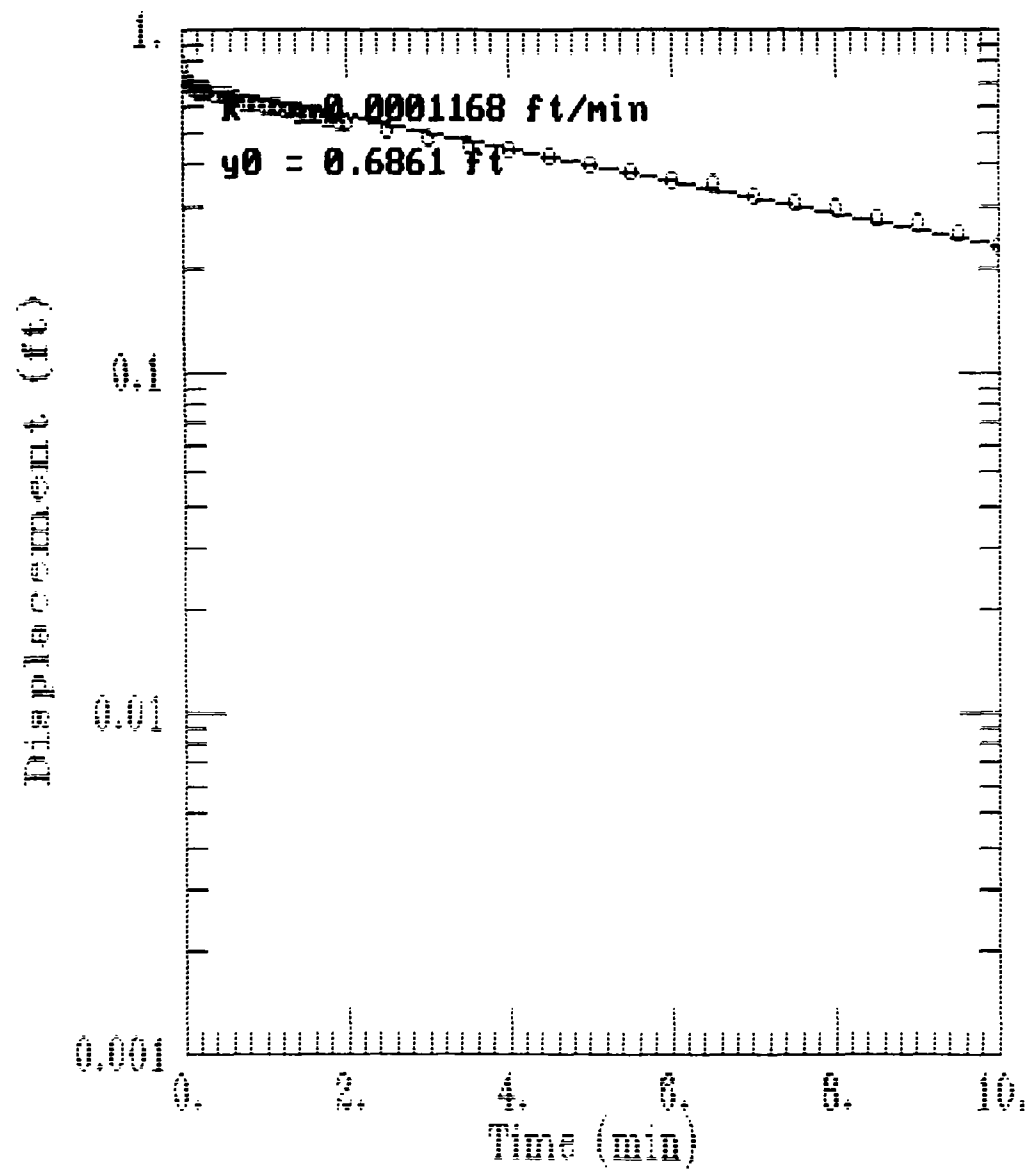


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

MONITORING WELL 115B



AQTESOLV

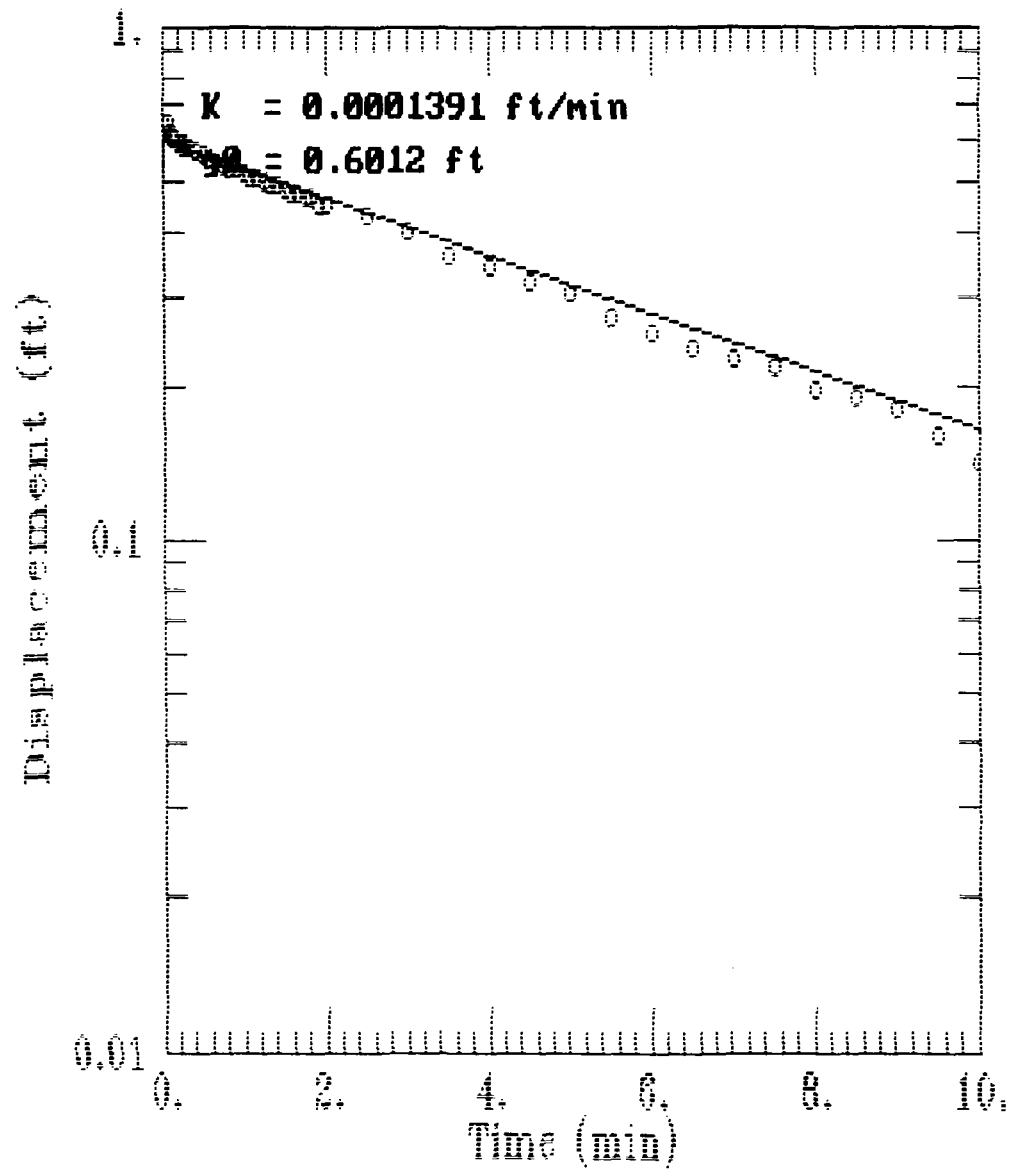


GERAGHTY
& MILLER, INC.



Modeling Group

MONITORING WELL 115B (FALLING HEAD TEST)



AQTESOLV

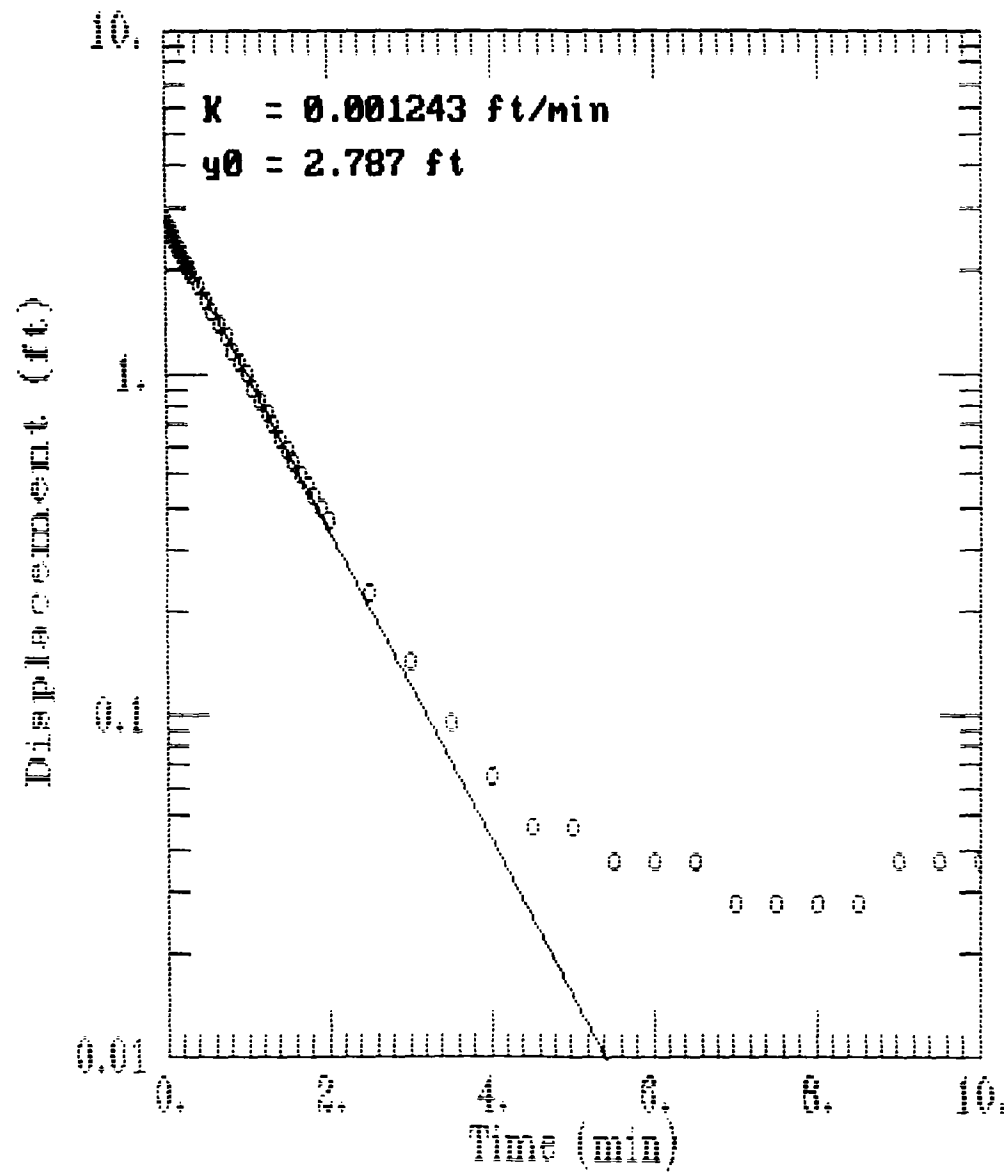


GERAGHTY
& MILLER, INC.



Modeling Group

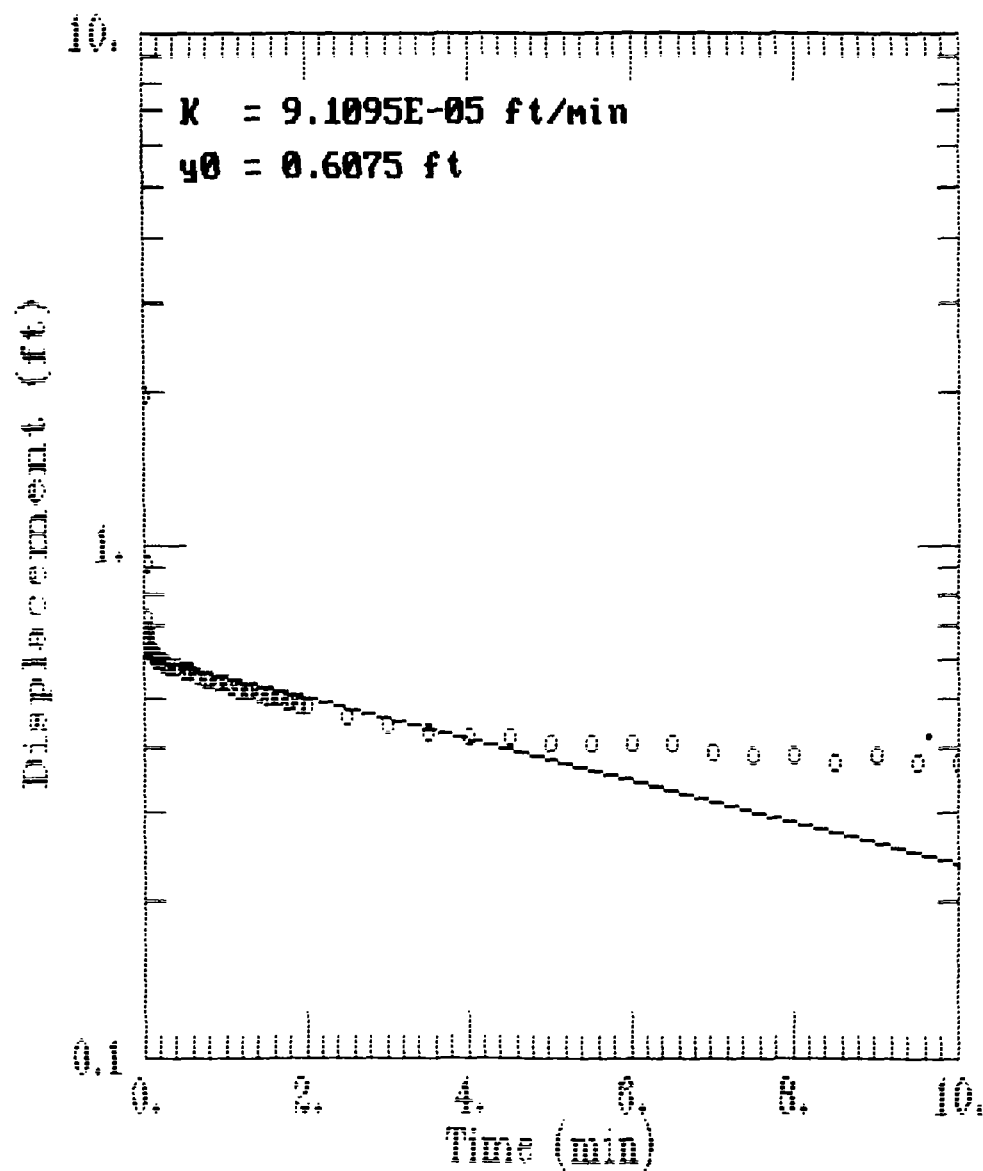
MONITORING WELL 118B



AQTESOLV

 GERAGHTY
& MILLER, INC.
 Modeling Group

MONITORING WELL 119A

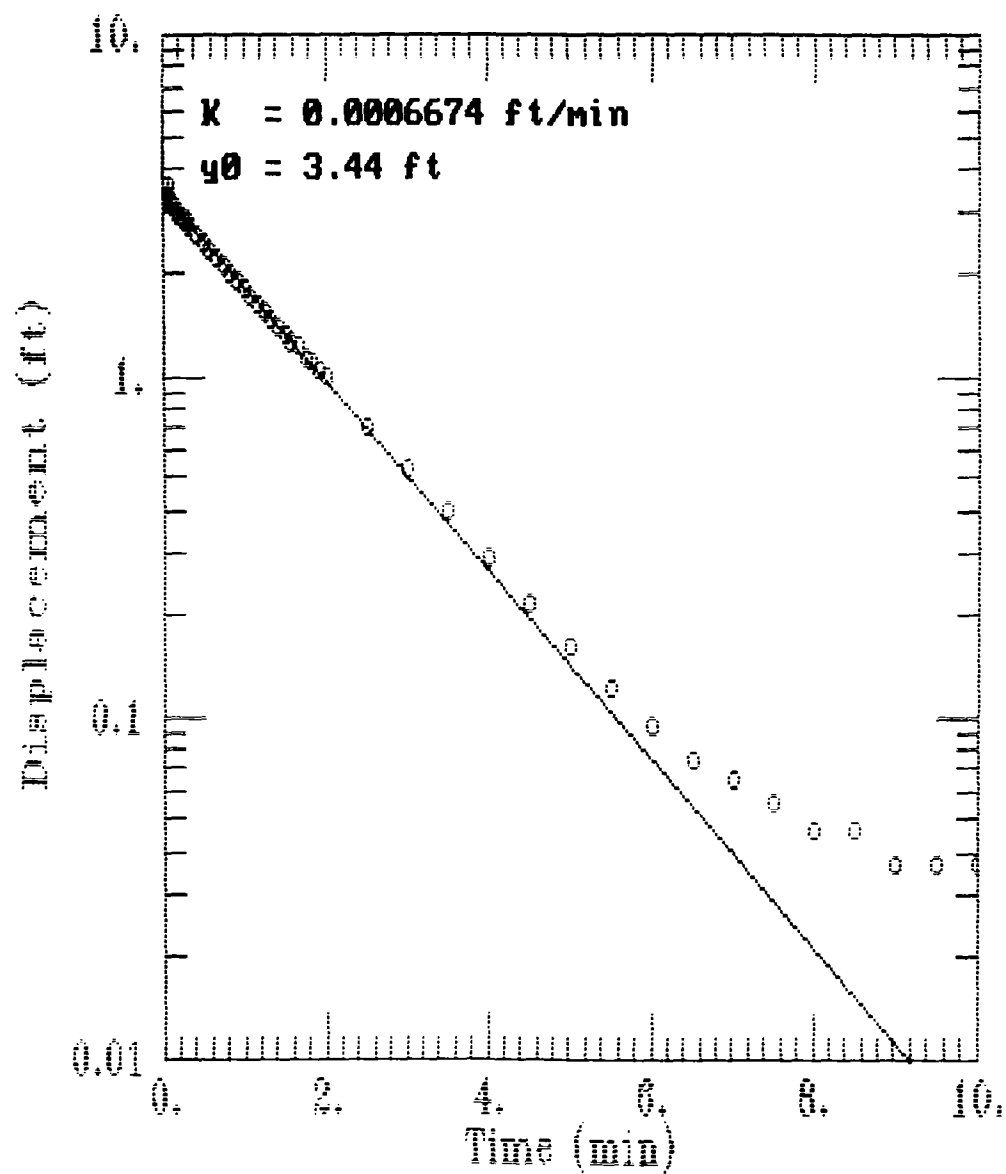


AQTESOLV

GERAGHTY
& MILLER, INC.

Modeling Group

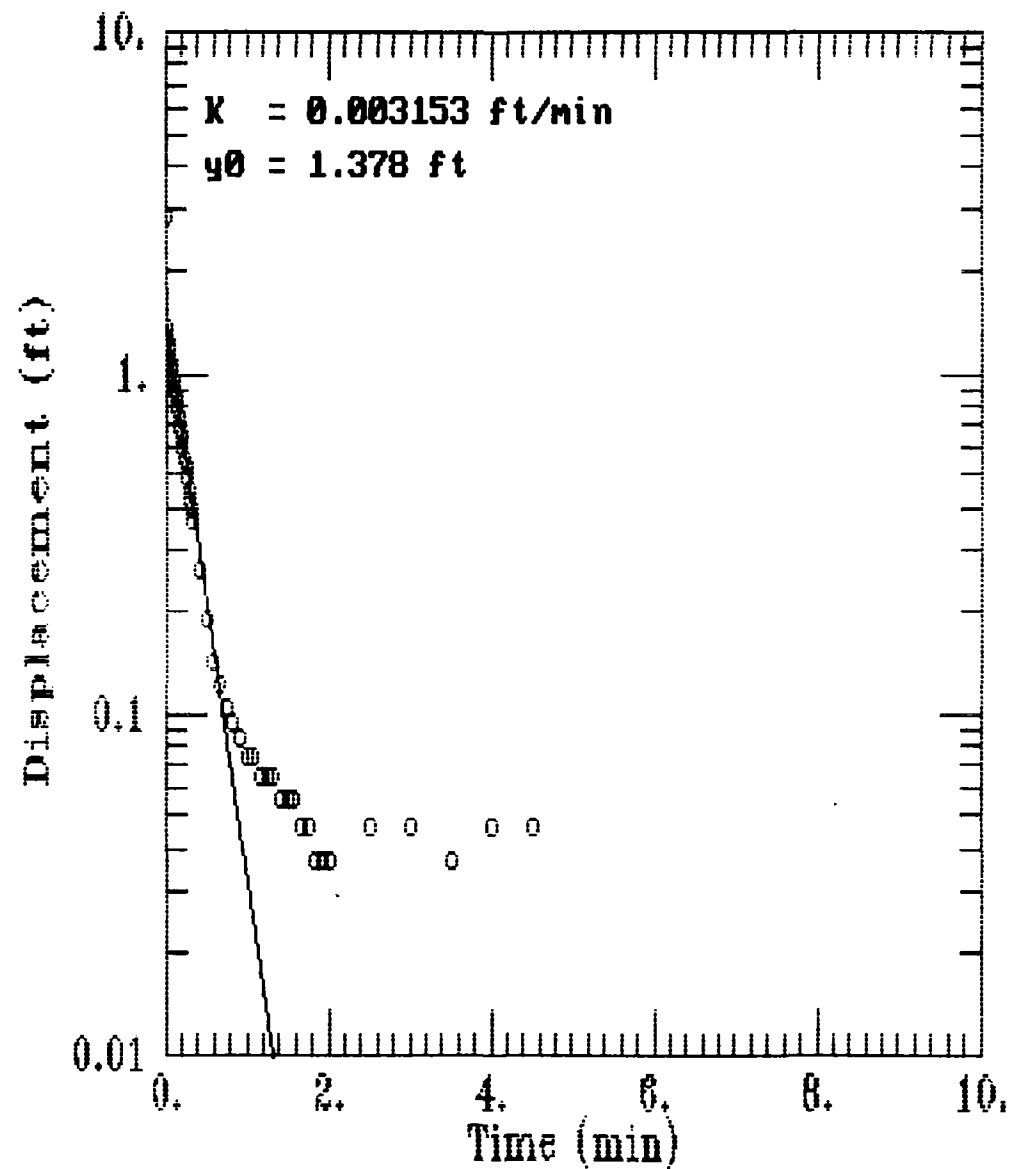
MONITORING WELL 119B



AQTESOLV

 GERAGHTY
& MILLER, INC.
 Modeling Group

MONITORING WELL 120A

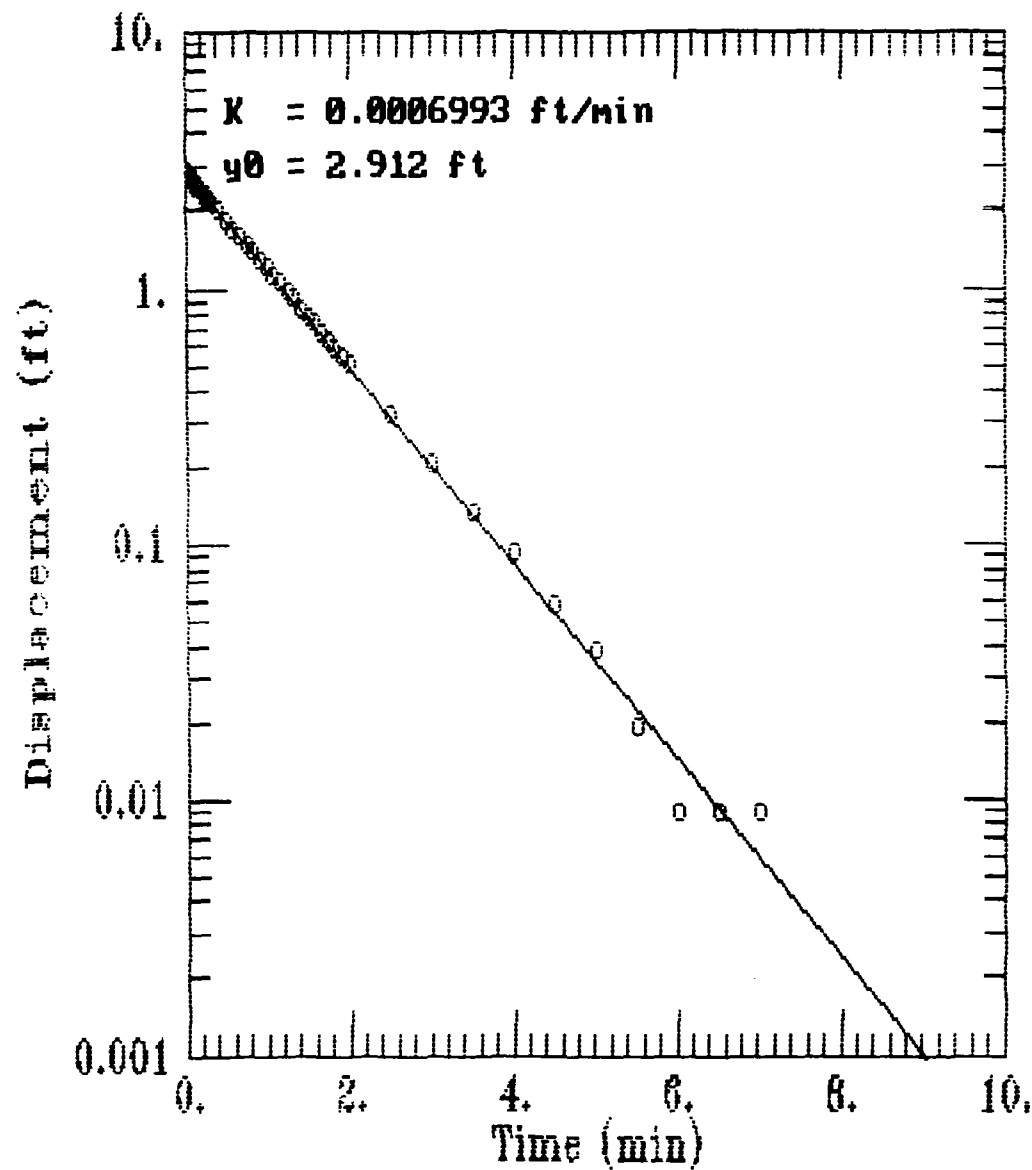


AQTESOLV

GERAGHTY
& MILLER, INC.

Modeling Group

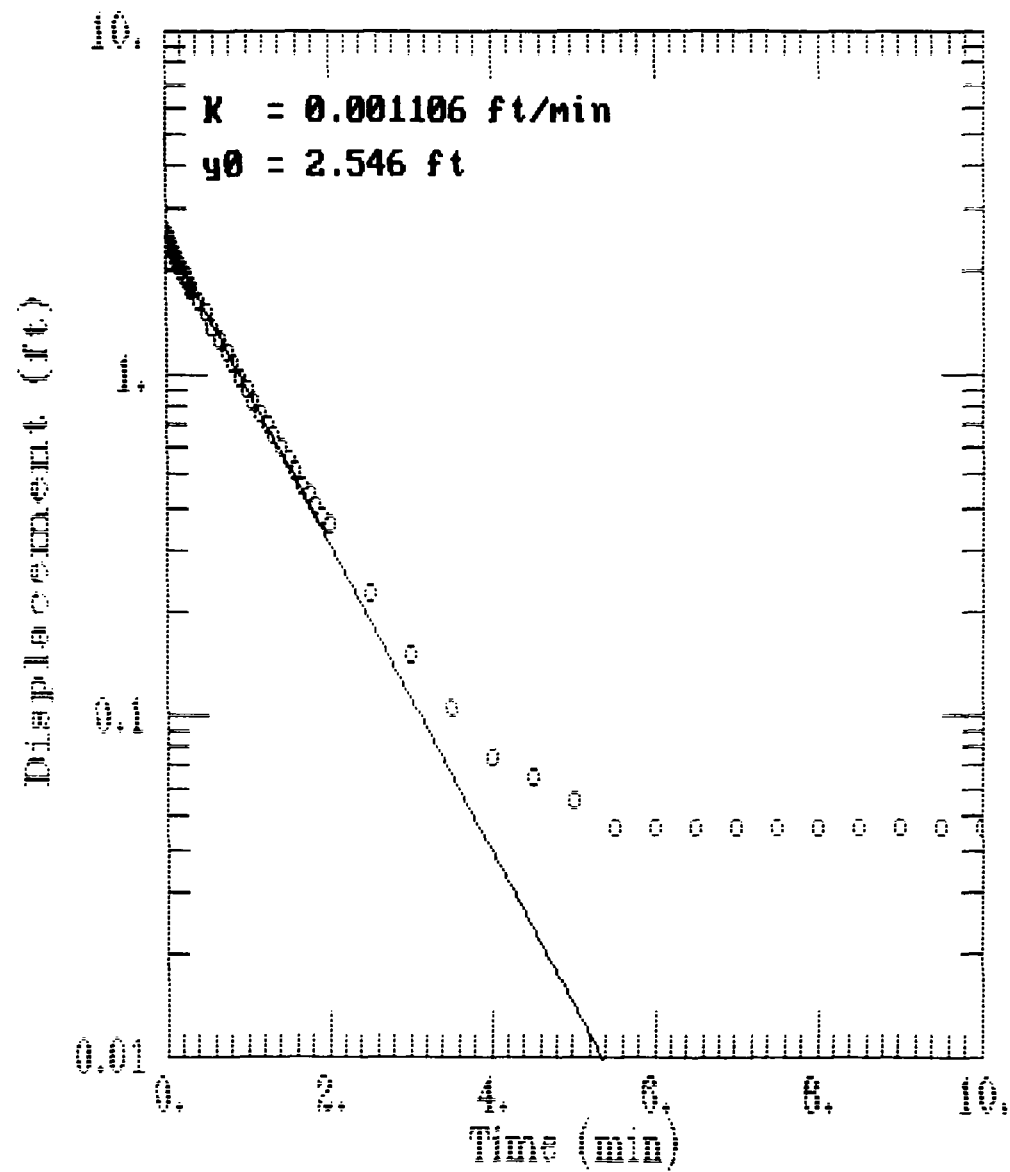
MONITORING WELL 122A



AQTESOLV

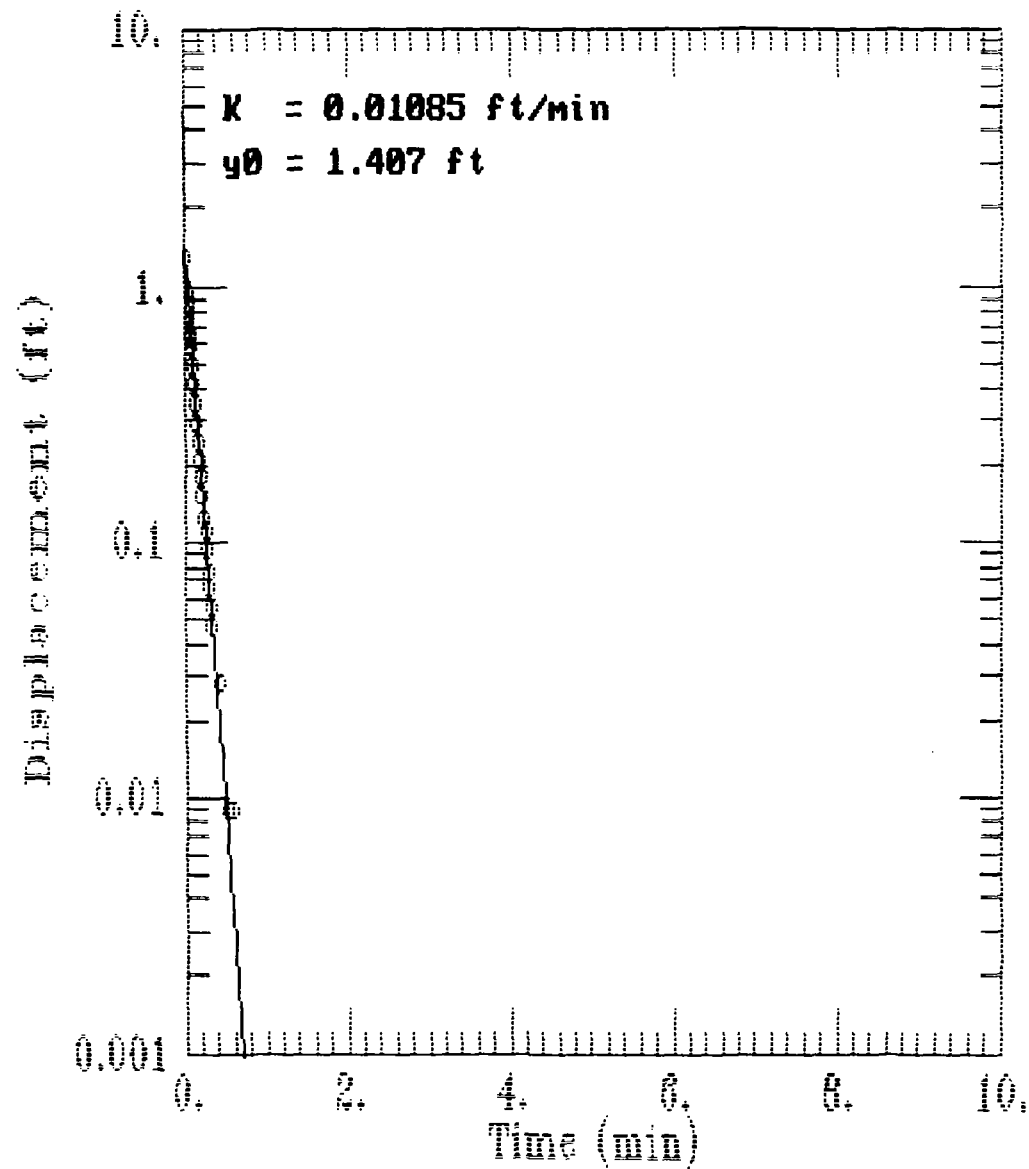
 GERAGHTY
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MONITORING WELL 125



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& MILLER, INC.
Modeling Group

MONITORING WELL 127A

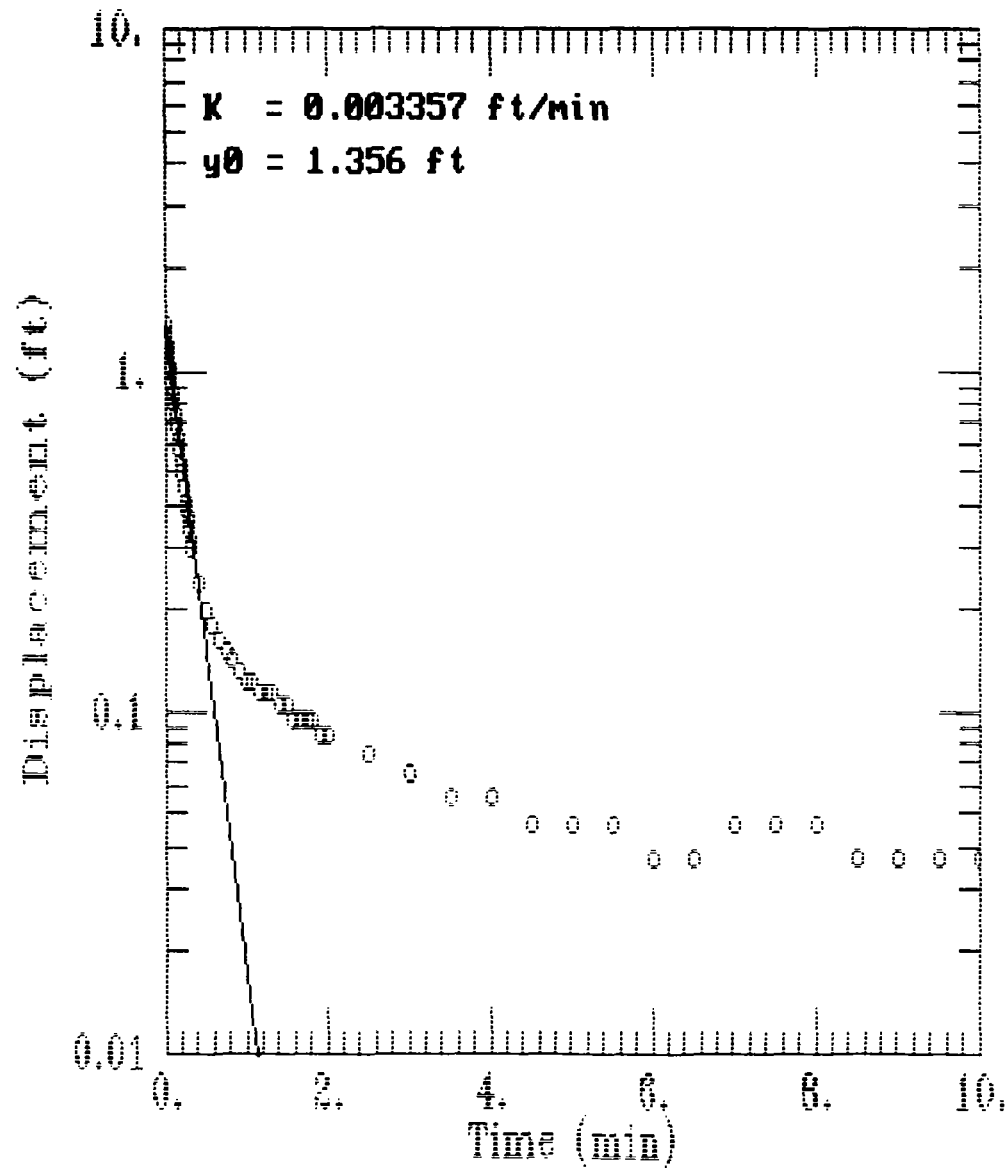


AQTESOLV

 GERAGHTY
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 Modeling Group

MONITORING WELL 201

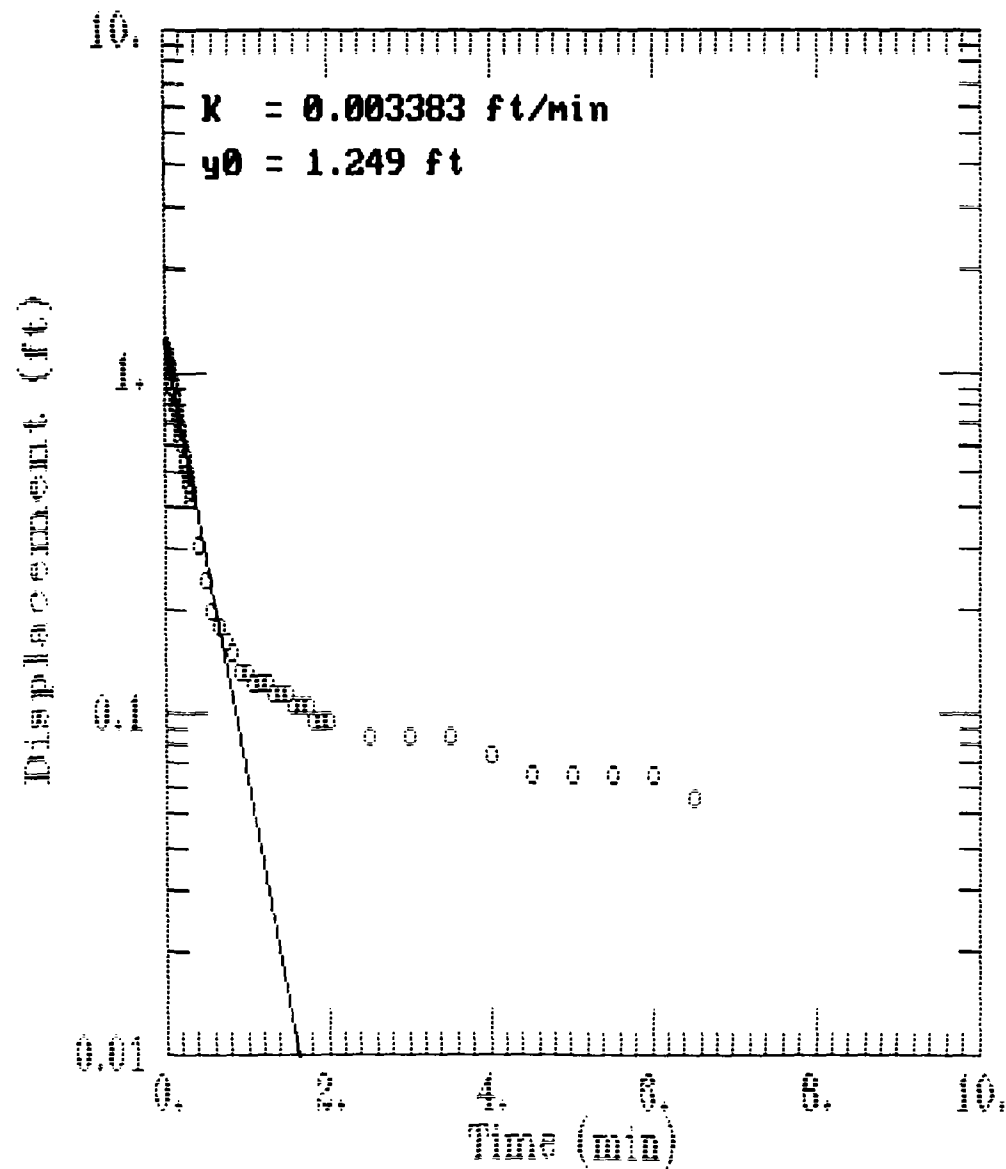


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

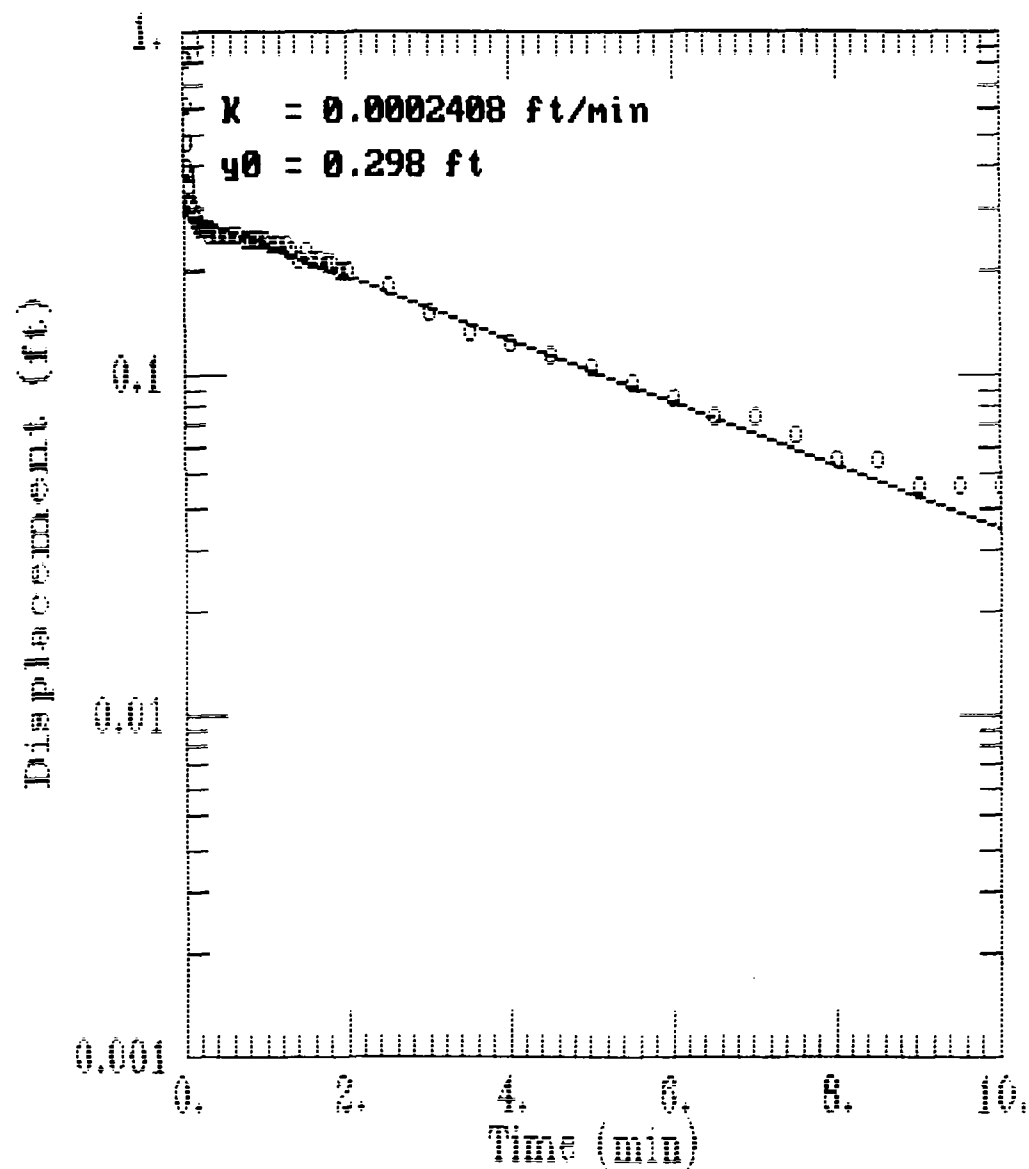
MONITORING WELL 202



AQTESOLV

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 **Modeling Group**

MONITORING WELL 202 (FALLING HEAD TEST)



AQTESOLV

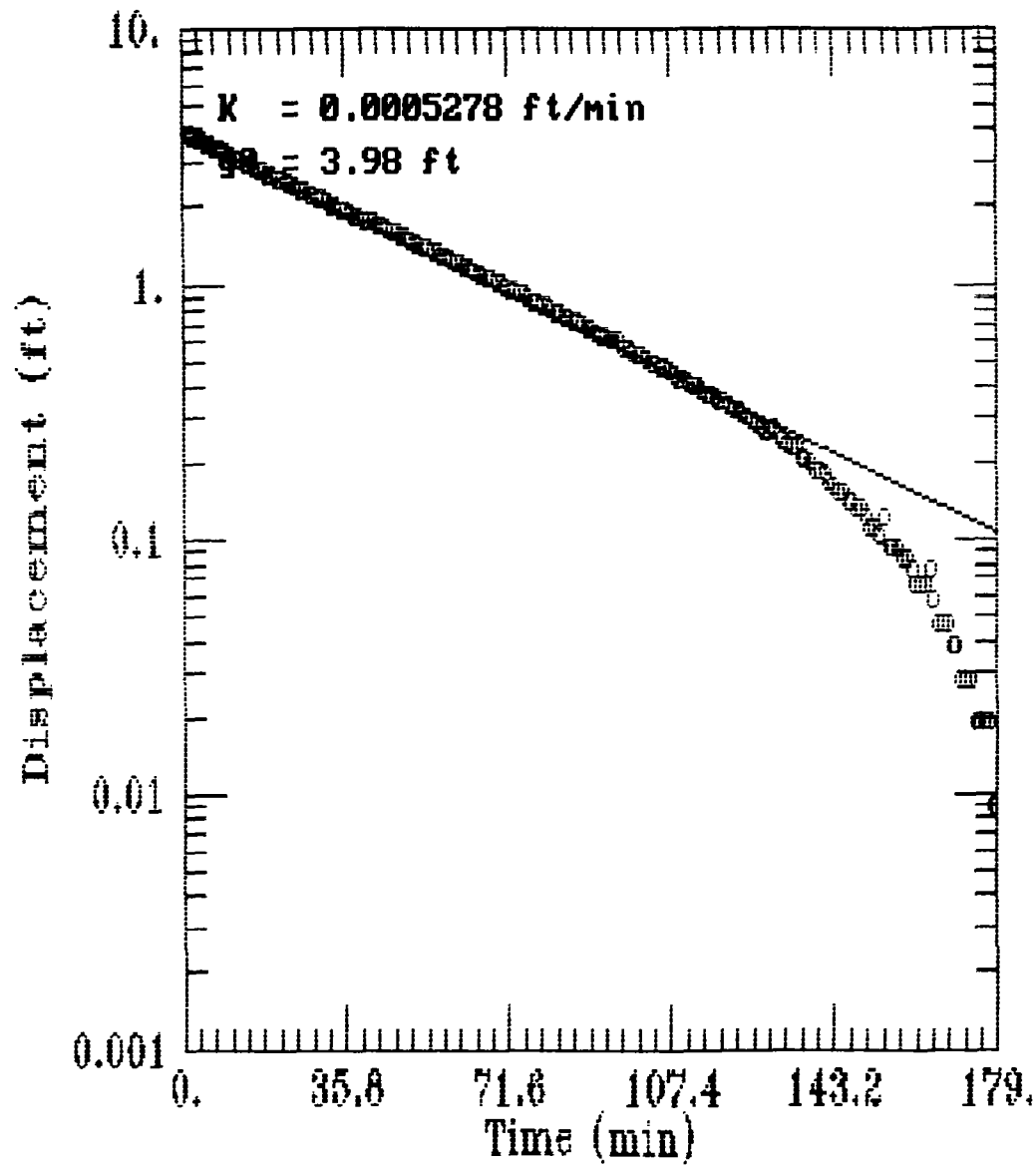


GERAGHTY
& MILLER, INC.



Modeling Group

PIEZOMETER 301

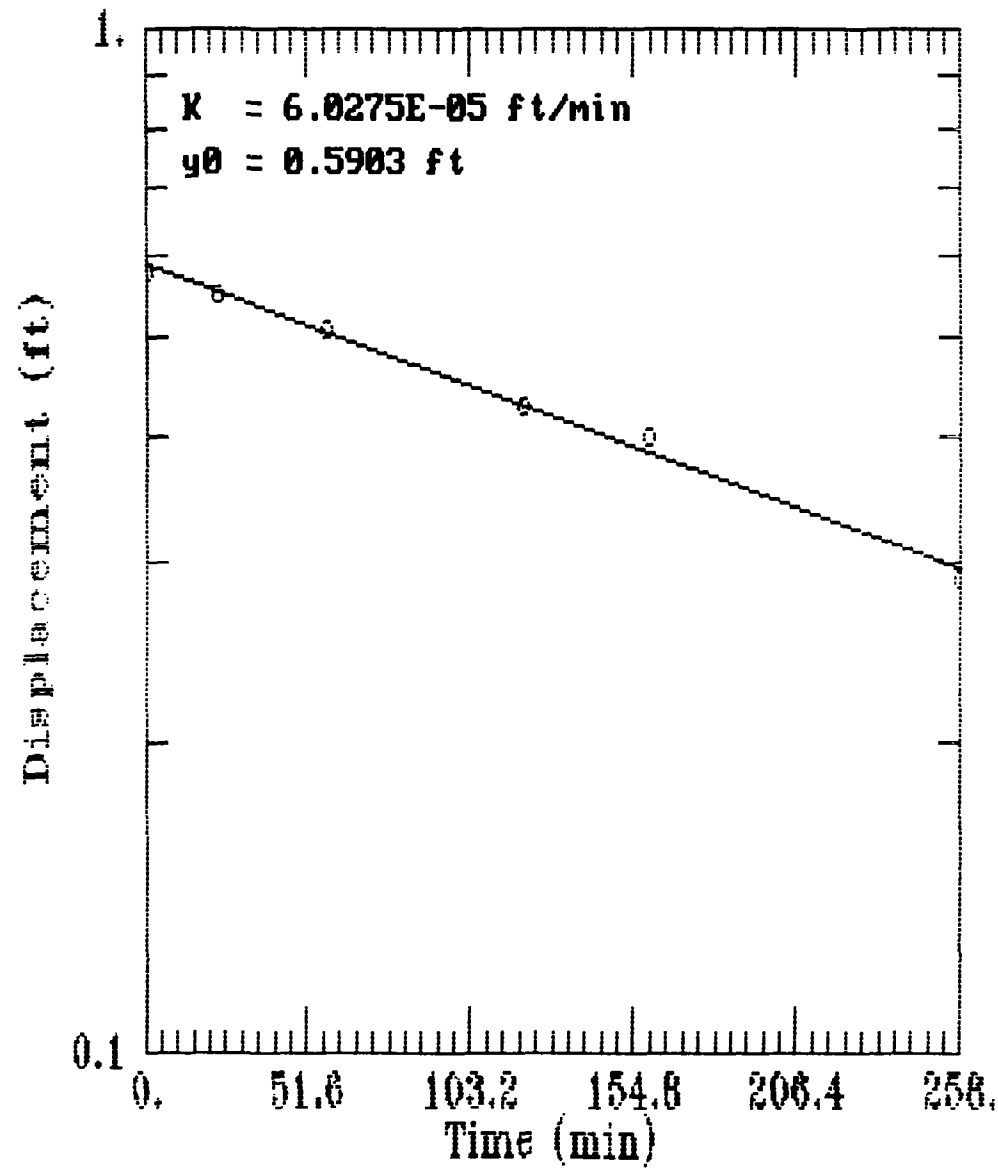


AQTESOLV

GERAGHTY
& MILLER, INC.

Modeling Group

PIEZOMETER 302

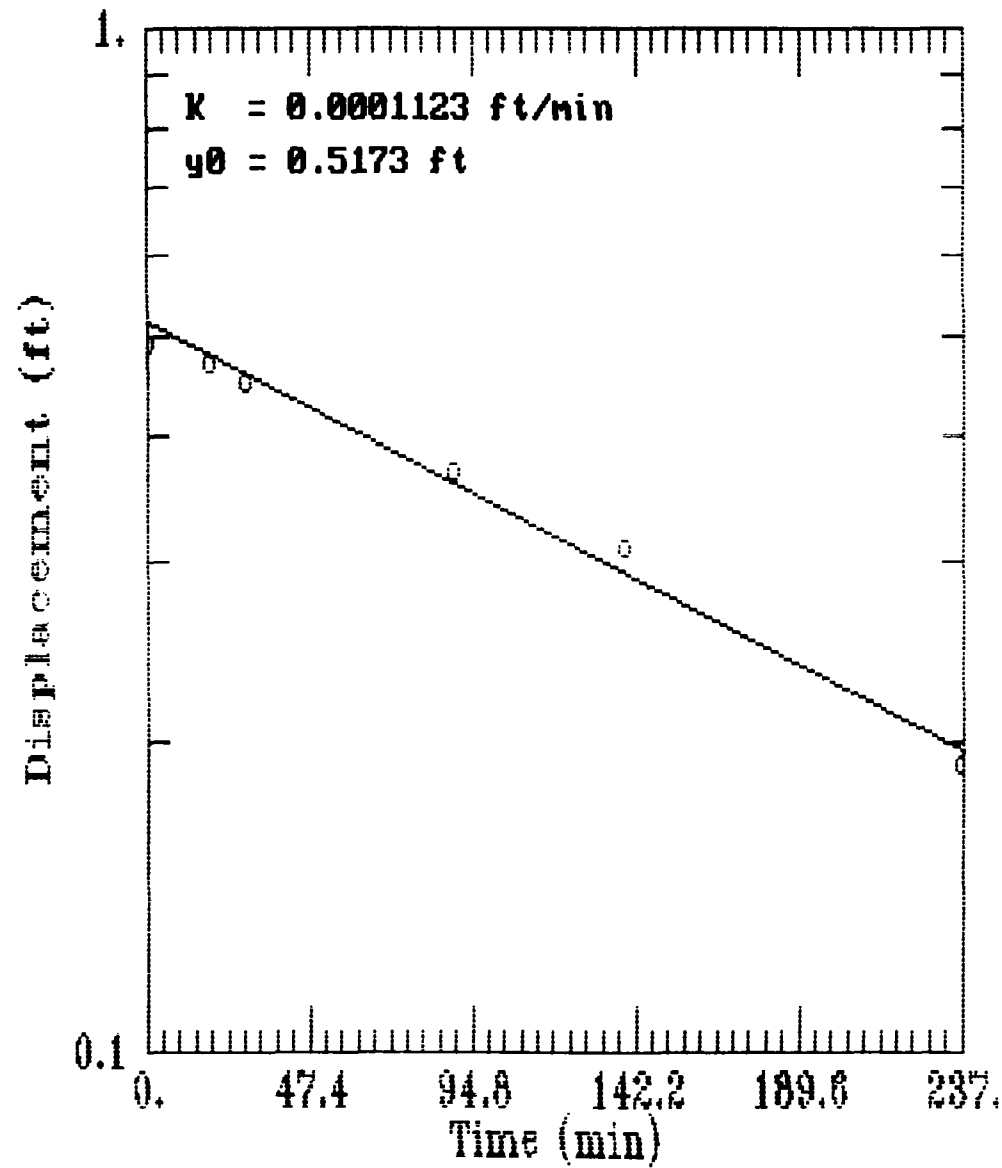


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

PIEZOMETER 303



AQTESOLV

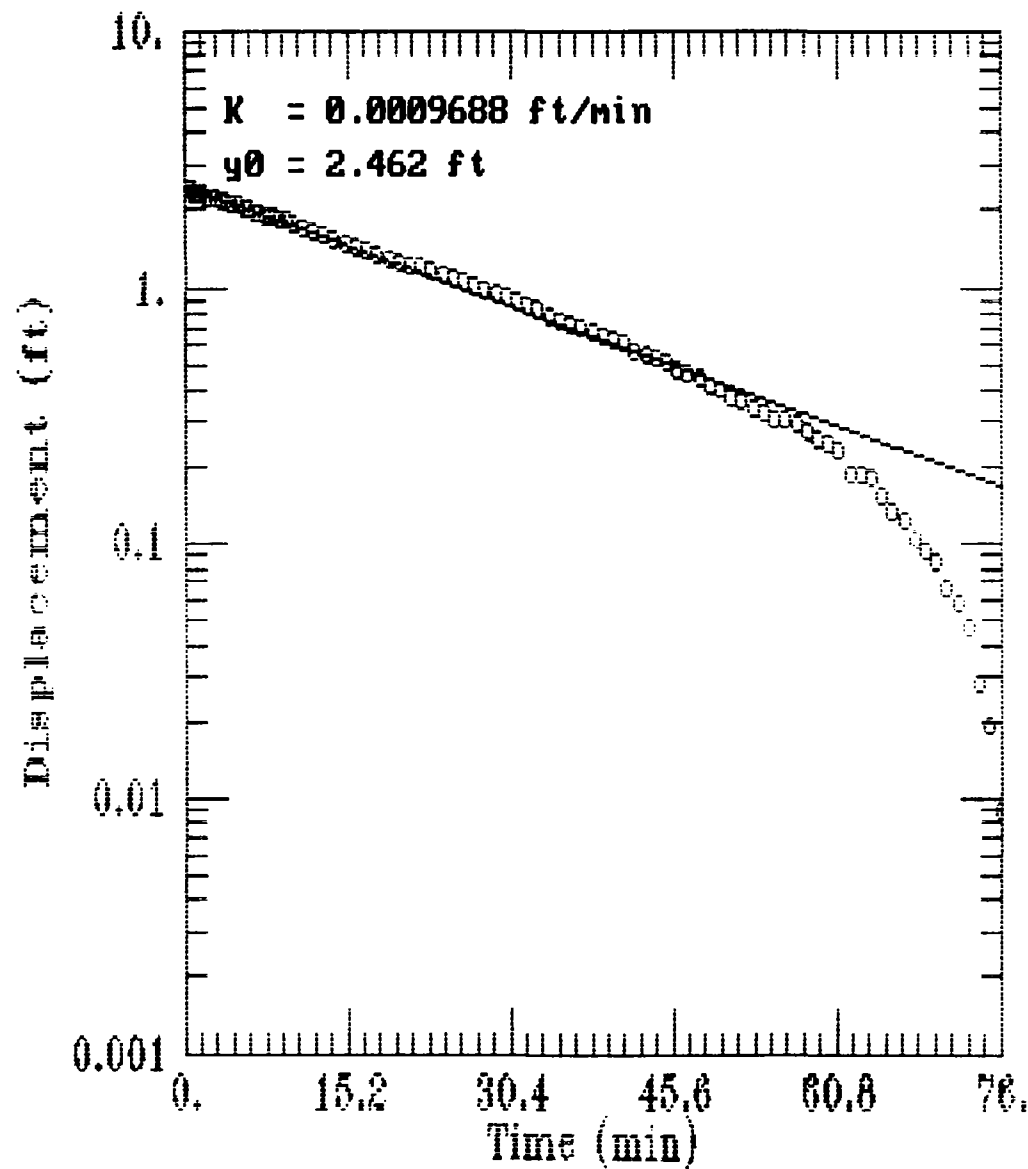


GERAGHTY
& MILLER, INC.



Modeling Group

PIEZOMETER 304

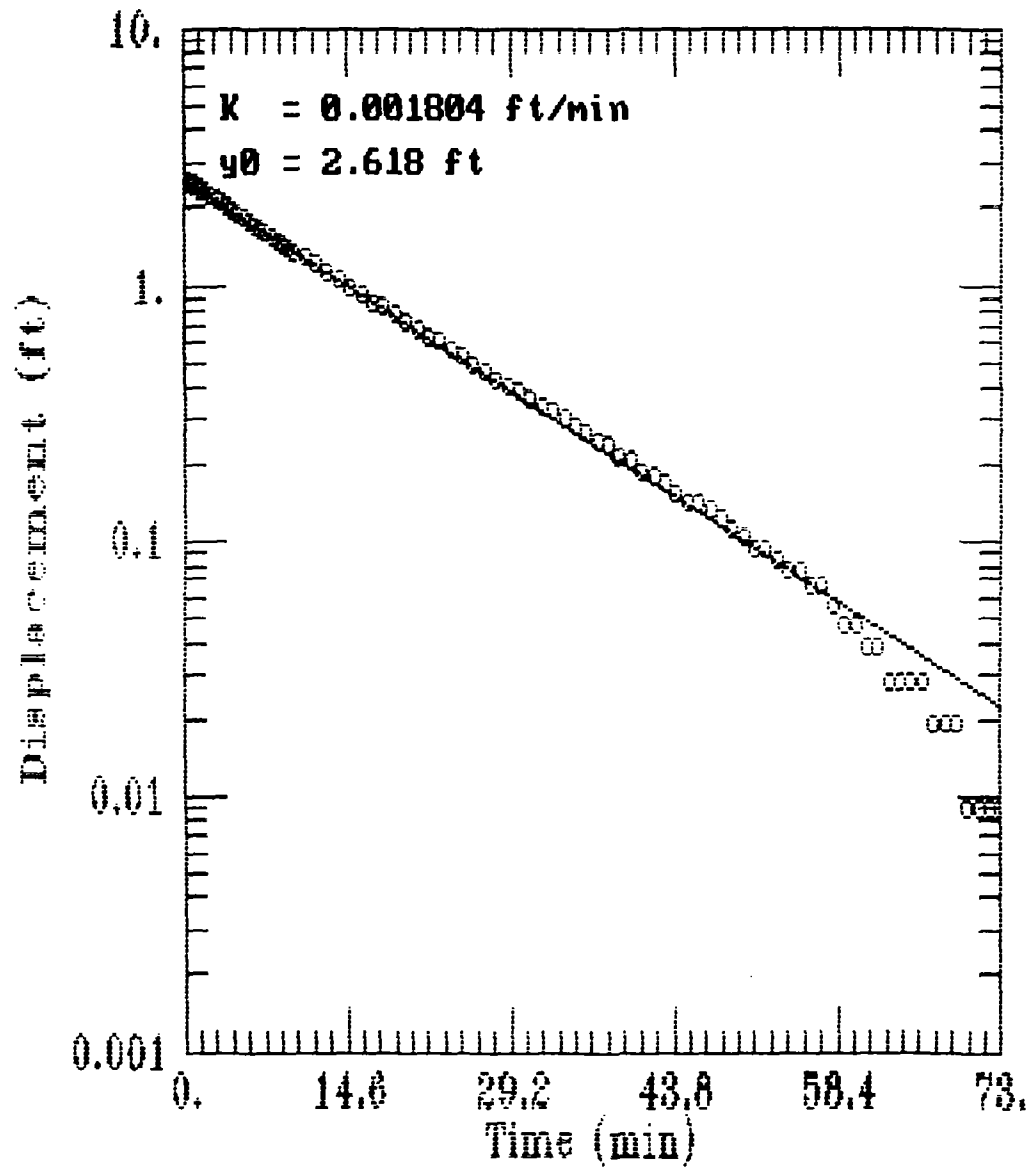


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

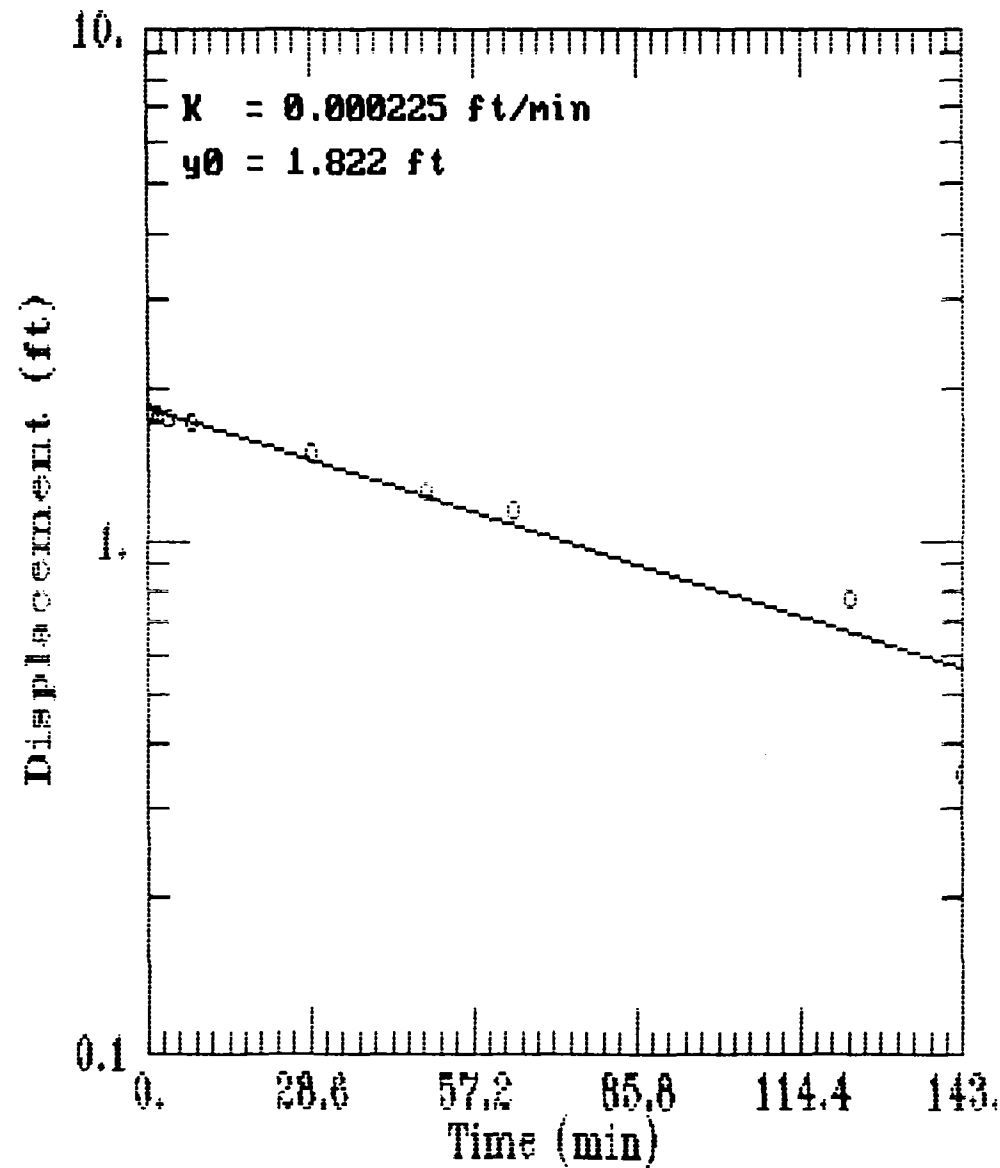
PIEZOMETER 305



AQTESOLV

 GERAGHTY
& MILLER, INC.
Modeling Group

PIEZOMETER 306

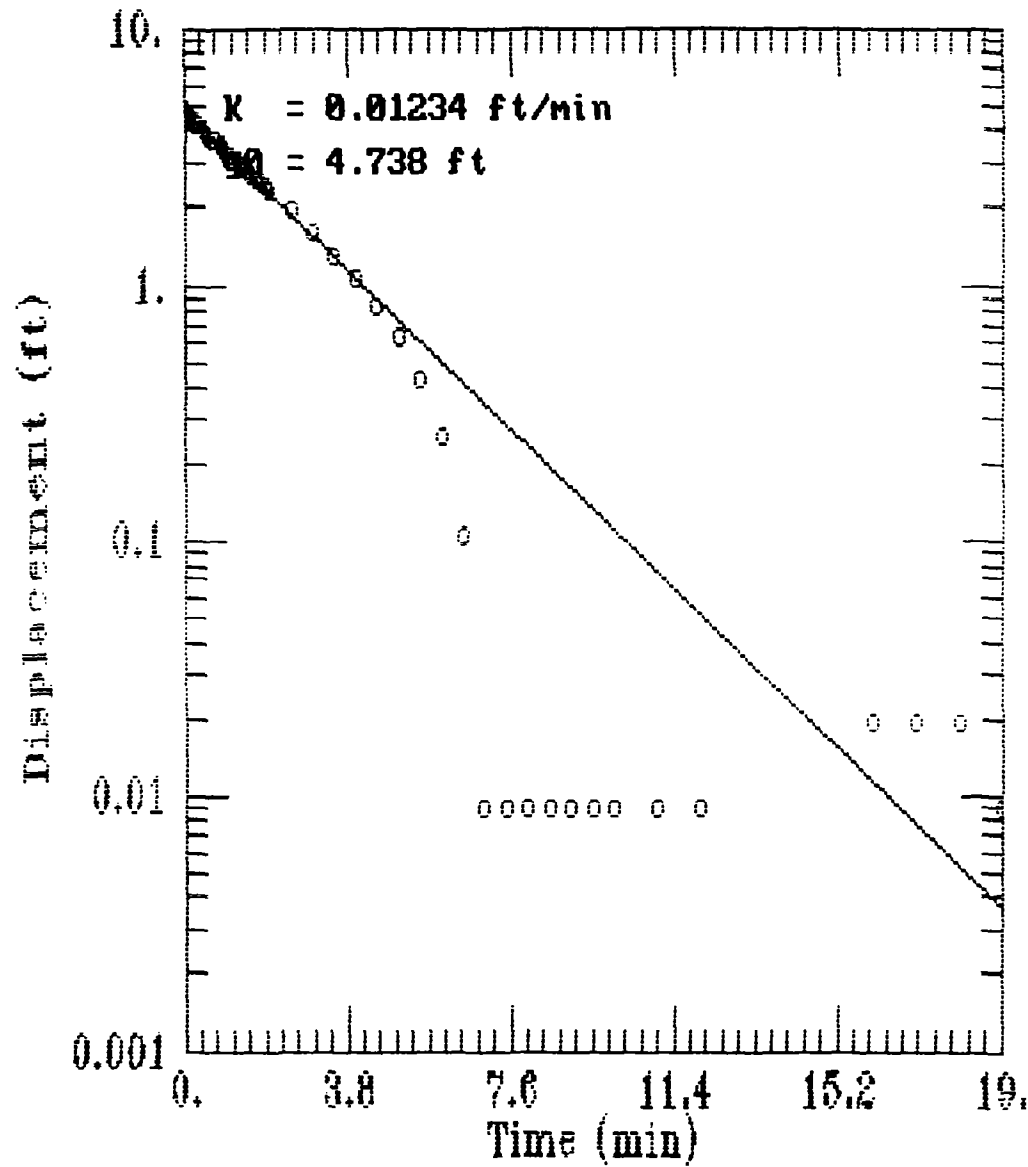


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

PIEZOMETER 307

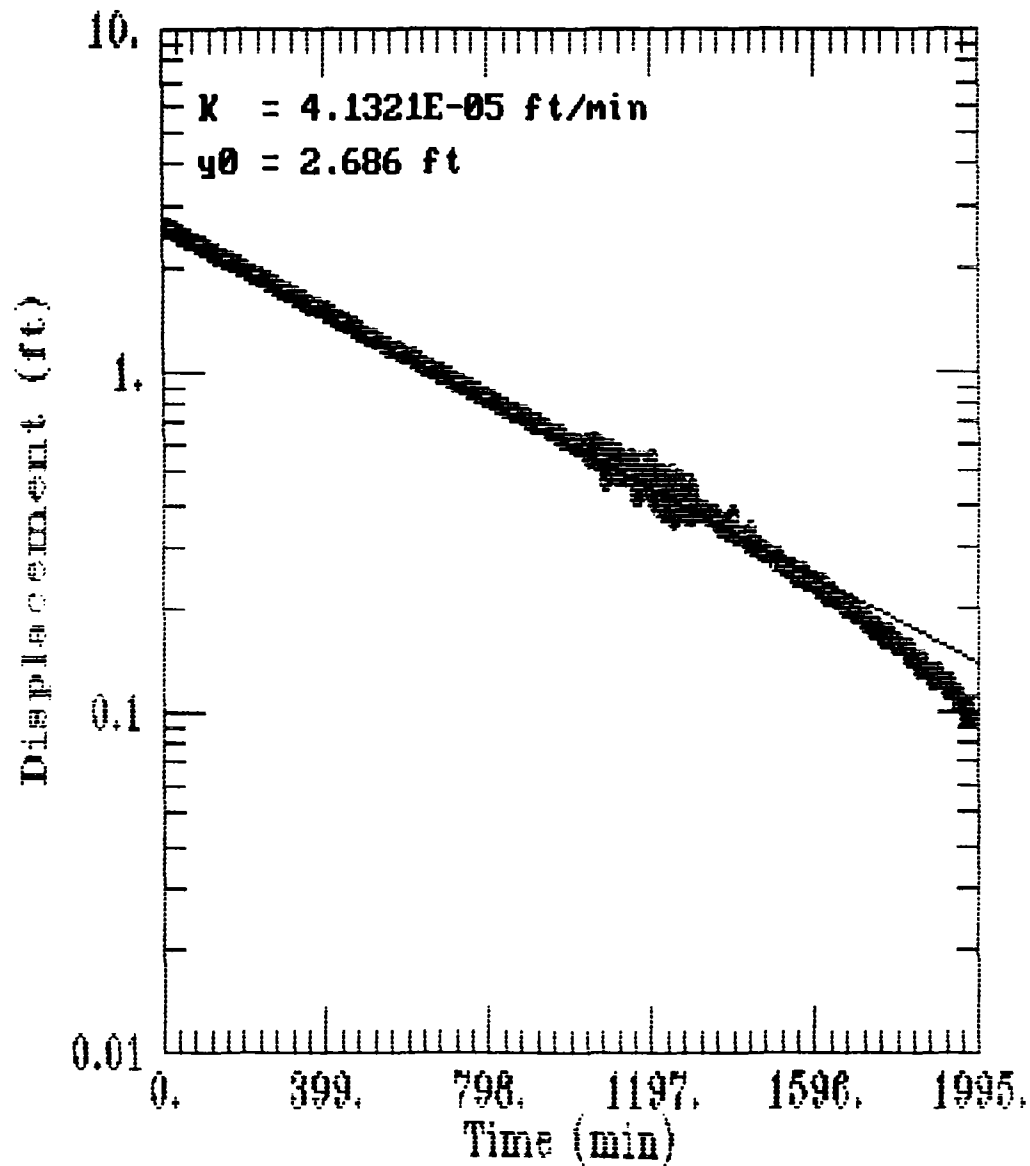


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

PIEZOMETER 308

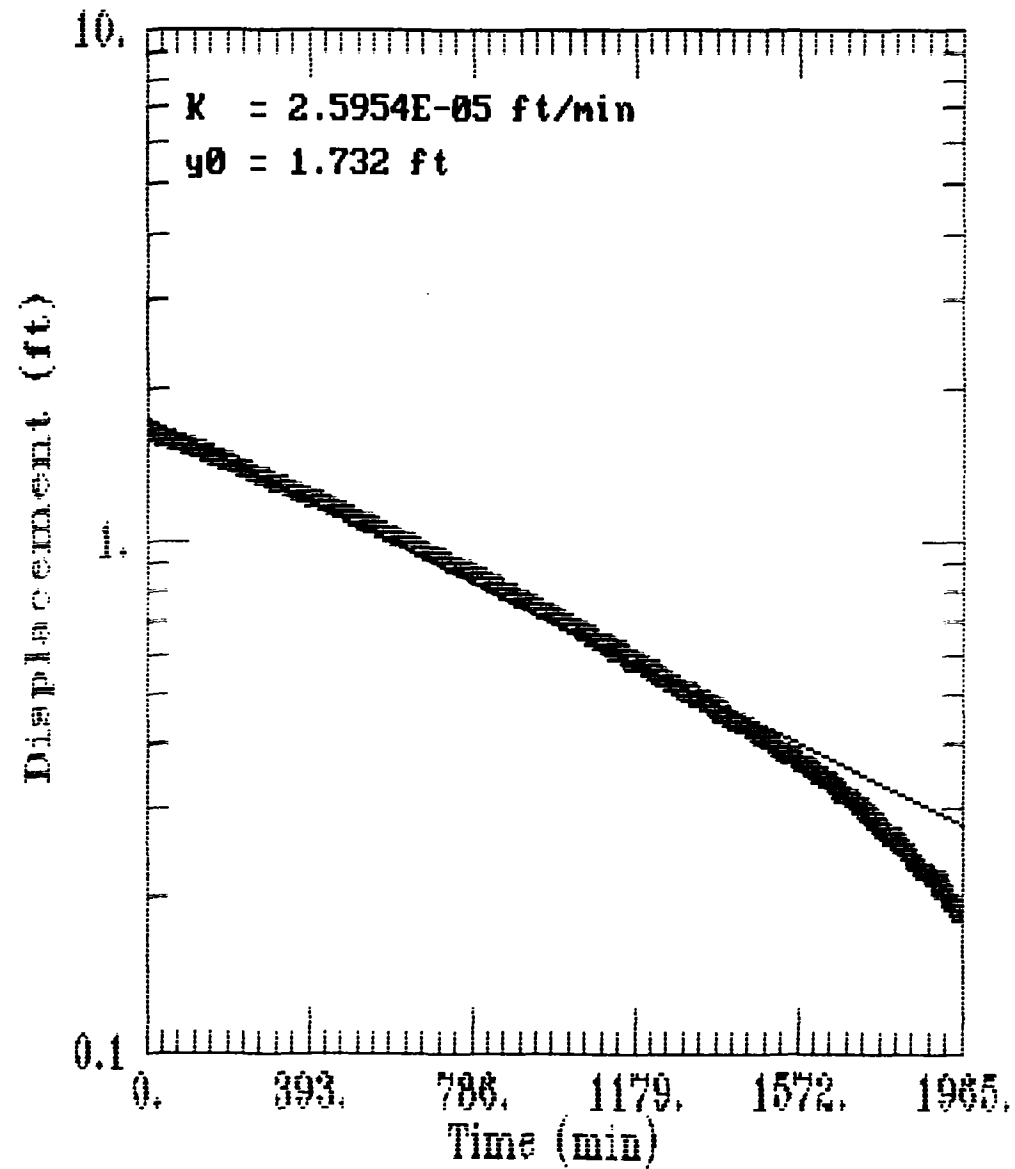


AQTESOLV

GERAGHTY
& MILLER, INC.

Modeling Group

PIEZOMETER 309

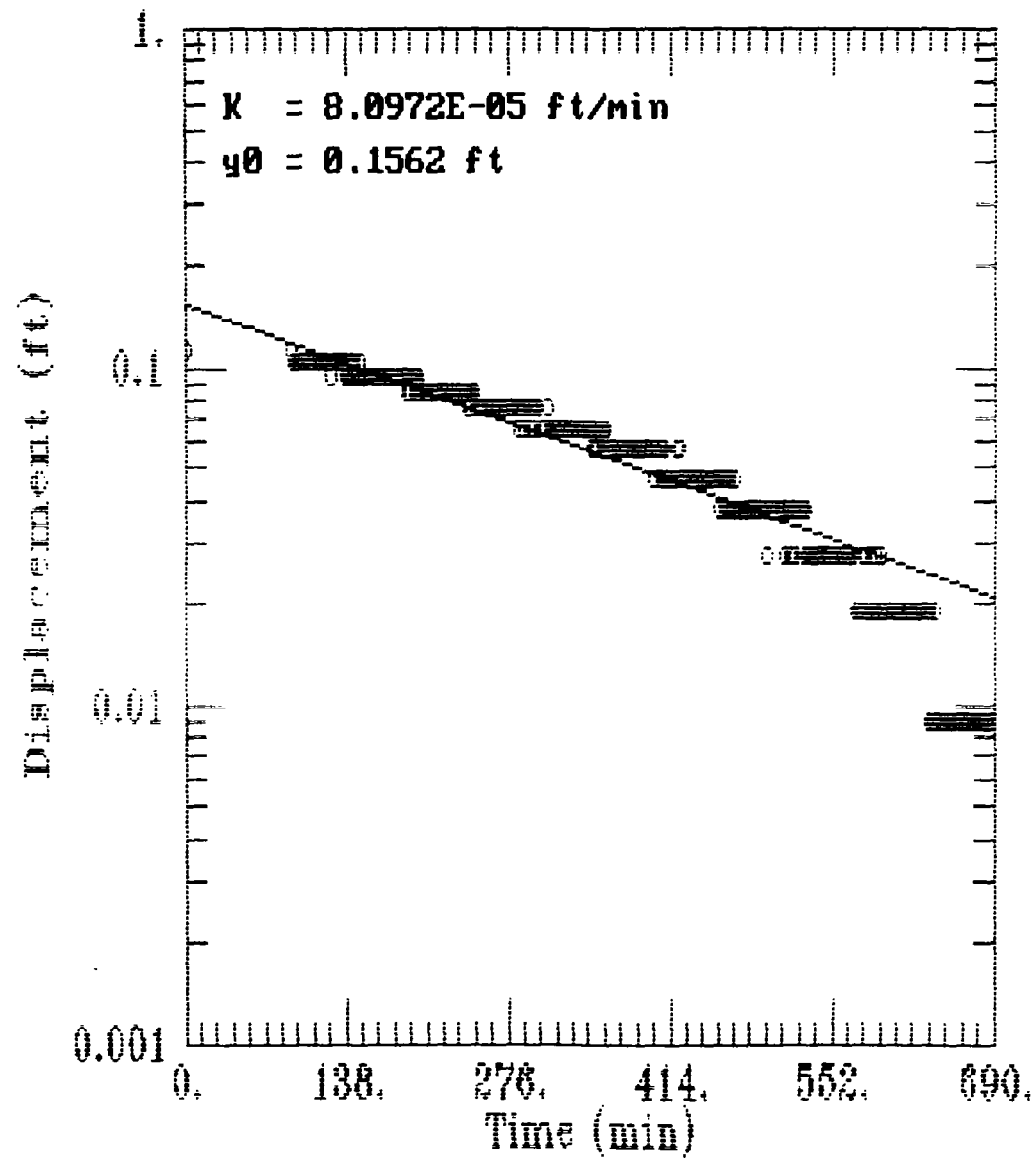


AQTESOLV

 GERAGHTY
& MILLER, INC.

 Modeling Group

PIEZOMETER 310

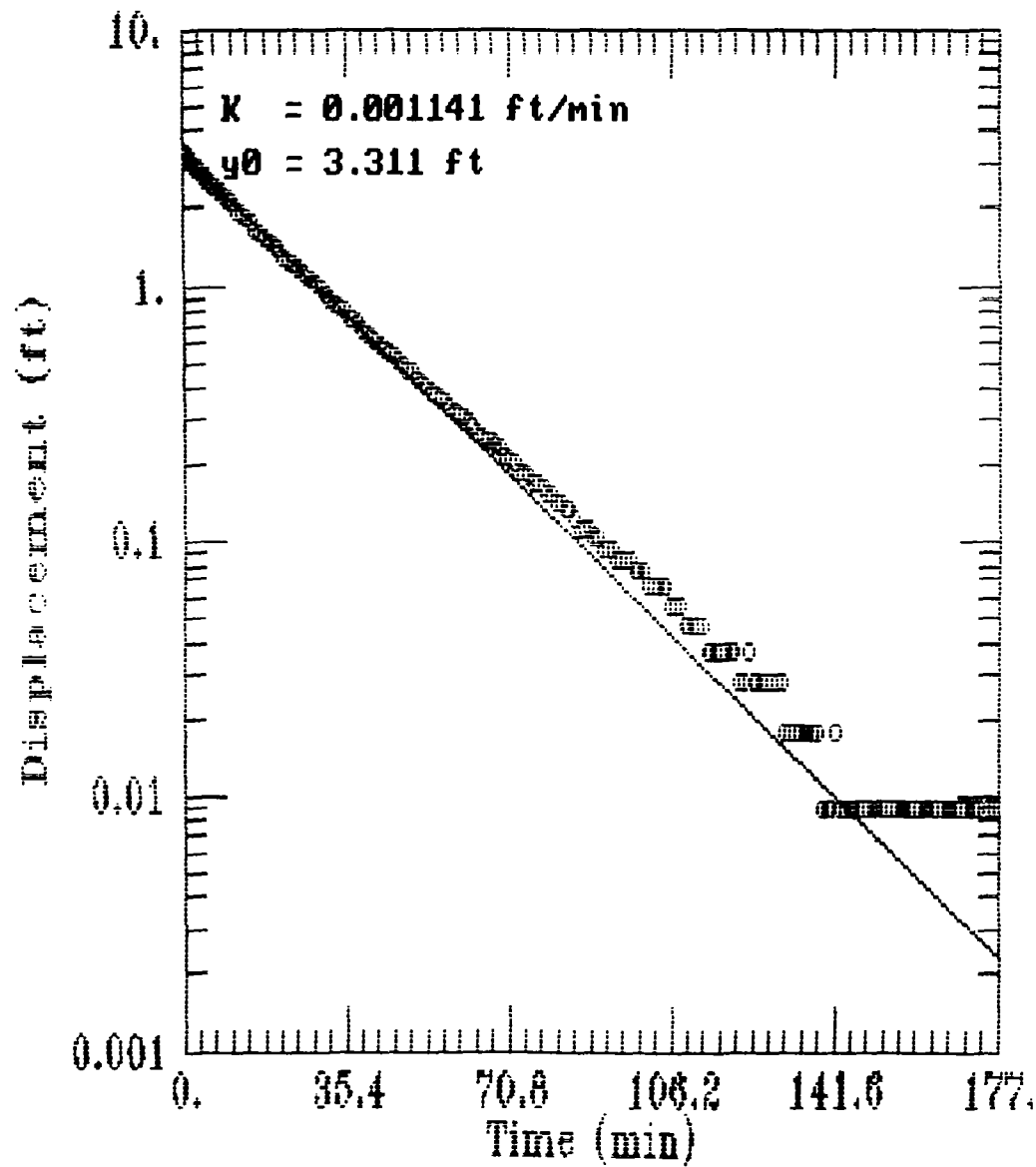


AQTESOLV

GERAGHTY
& MILLER, INC.

Modeling Group

PIEZOMETER 311

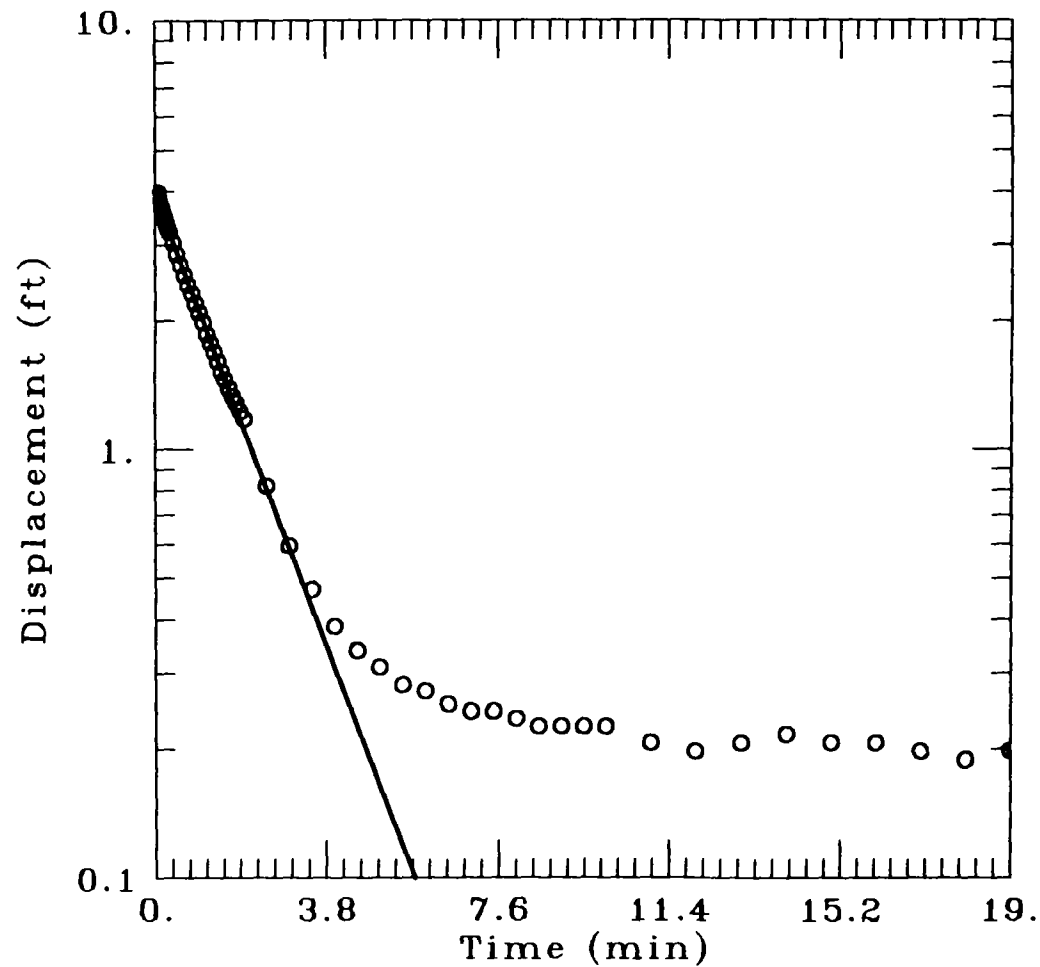


AQTESOLV

GERAGHTY
& MILLER, INC.

Modeling Group

133 FALLING HEAD TEST



DATA SET:

133fht.dat

08/24/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

ESTIMATED PARAMETERS:

$K = 0.0005905$ ft/min

$y_0 = 4.031$ ft

TEST DATA:

$H_0 = 3.989$ ft

$r_c = 0.083$ ft

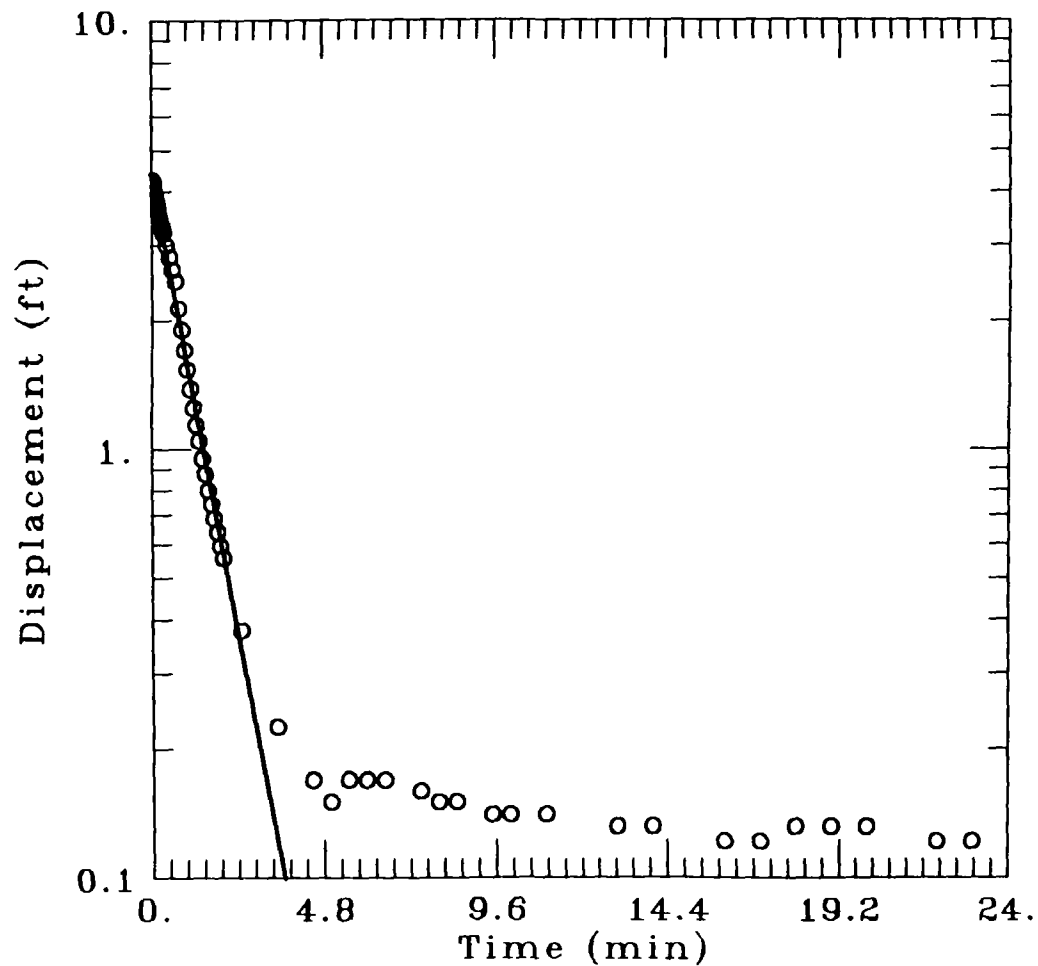
$r_w = 0.25$ ft

$L = 10$ ft

$b = 77$ ft

$H = 23$ ft

133 RISING HEAD TEST



DATA SET:

133rht.dat

08/24/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

ESTIMATED PARAMETERS:

$K = 0.0009465$ ft/min

$y_0 = 4.441$ ft

TEST DATA:

$H_0 = 4.272$ ft

$r_c = 0.083$ ft

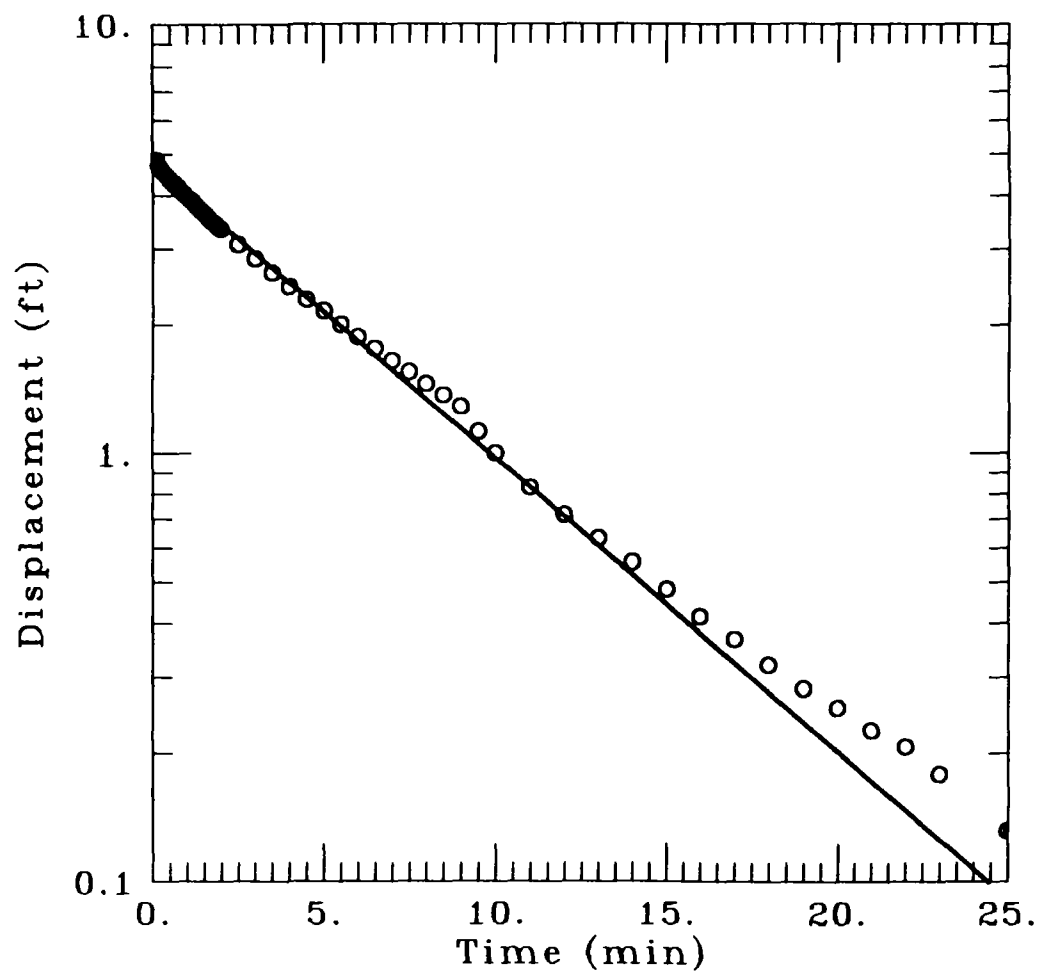
$r_w = 0.25$ ft

$L = 10.$ ft

$b = 77.$ ft

$H = 23.$ ft

135B FALLING HEAD TEST



DATA SET:

135bfht.dat

08/24/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

ESTIMATED PARAMETERS:

$K = 0.0001827$ ft/min

$y_0 = 4.74$ ft

TEST DATA:

$H_0 = 4.859$ ft

$r_c = 0.083$ ft

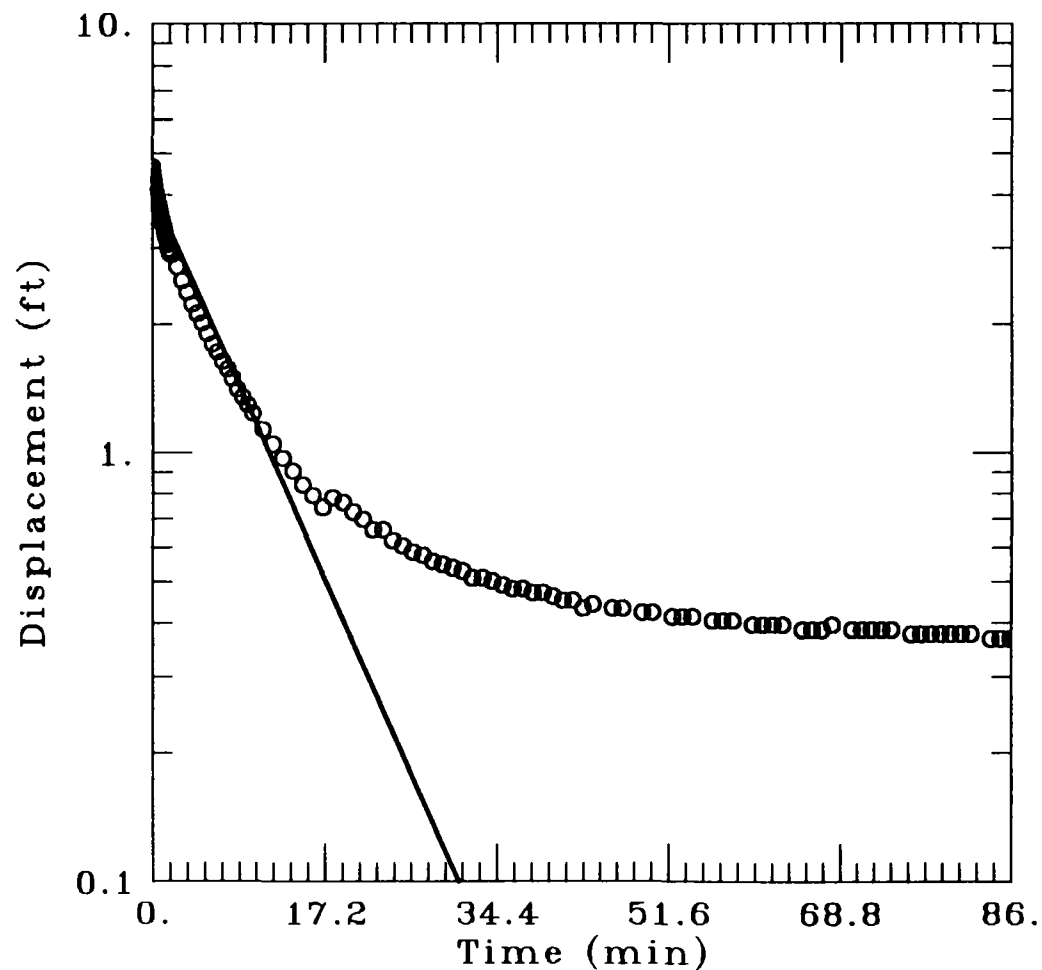
$r_w = 0.25$ ft

$L = 10.$ ft

$b = 136.$ ft

$H = 116.$ ft

135B RISING HEAD TEST



DATA SET:

135brht.dat

08/24/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

ESTIMATED PARAMETERS:

$K = 0.0001409$ ft/min

$y_0 = 4.159$ ft

TEST DATA:

$H_0 = 4.65$ ft

$r_c = 0.083$ ft

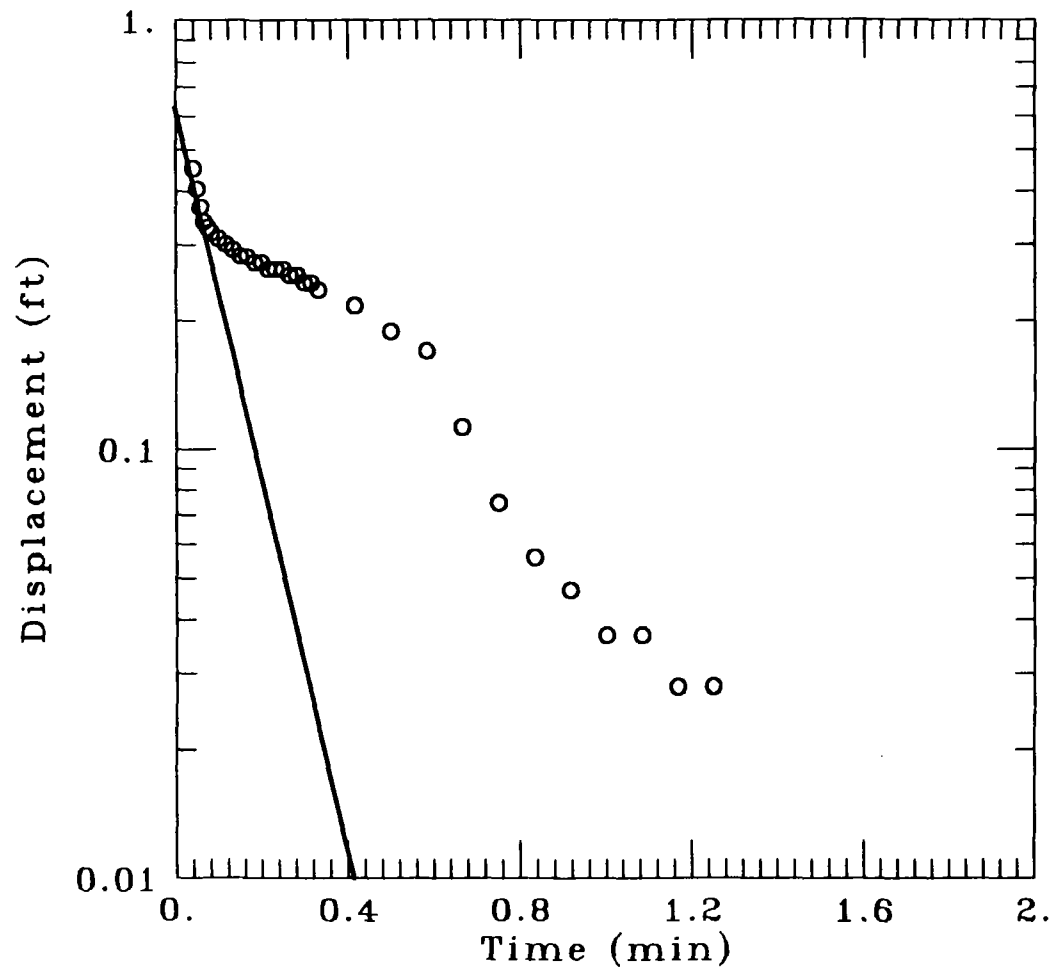
$r_w = 0.25$ ft

$L = 10.$ ft

$b = 136.$ ft

$H = 116.$ ft

FALLING HEAD TEST - 136A



DATA SET:

136afht.dat

08/24/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

ESTIMATED PARAMETERS:

$K = 0.00807$ ft/min

$y_0 = 0.6314$ ft

TEST DATA:

$H_0 = 4.53$ ft

$r_c = 0.08$ ft

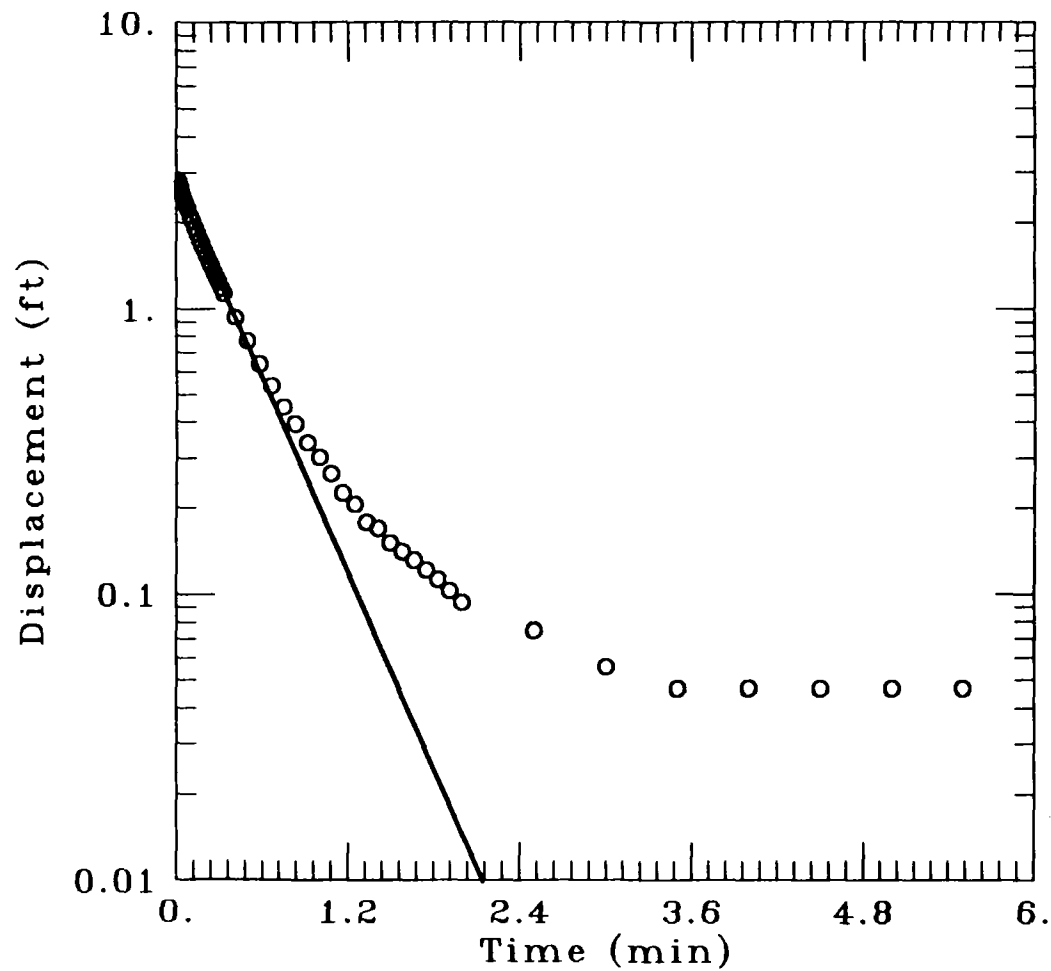
$r_w = 0.25$ ft

$L = 8.63$ ft

$b = 106$ ft

$H = 8.63$ ft

139A RISING HEAD TEST



DATA SET:

139arht.dat

08/24/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

ESTIMATED PARAMETERS:

$K = 0.002308$ ft/min

$y_0 = 2.797$ ft

TEST DATA:

$H_0 = 2.816$ ft

$r_c = 0.083$ ft

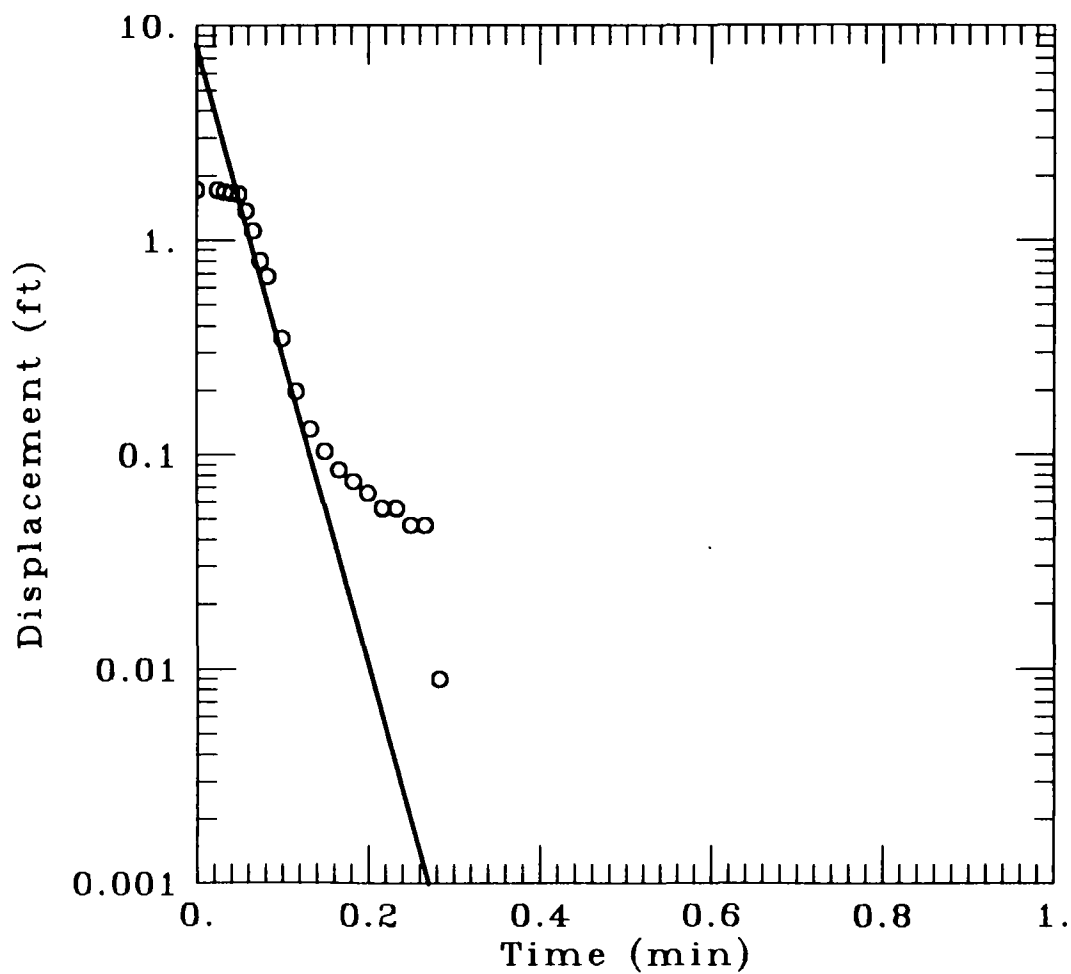
$r_w = 0.25$ ft

$L = 10$ ft

$b = 67$ ft

$H = 16.6$ ft

140 RISING HEAD TEST



DATA SET:

140rht.dat

08/24/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

ESTIMATED PARAMETERS:

$K = 0.02315$ ft/min

$y_0 = 8.222$ ft

TEST DATA:

$H_0 = 1.722$ ft

$r_c = 0.083$ ft

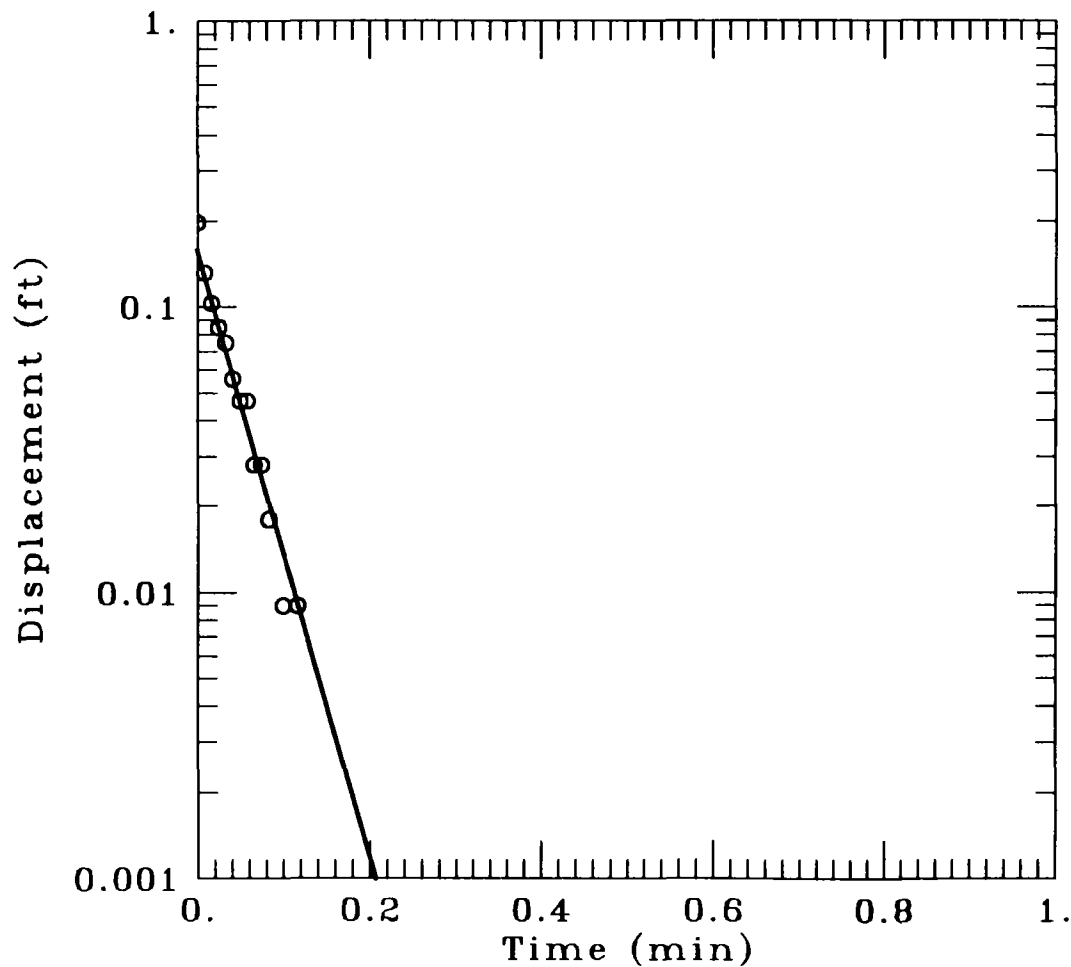
$r_w = 0.25$ ft

$L = 13.$ ft

$b = 30.$ ft

$H = 13.$ ft

314 - FALLING HEAD TEST



DATA SET:

314.dat

08/24/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

ESTIMATED PARAMETERS:

$K = 0.04328$ ft/min

$y_0 = 0.1596$ ft

TEST DATA:

$H_0 = 0.198$ ft

$r_c = 0.04$ ft

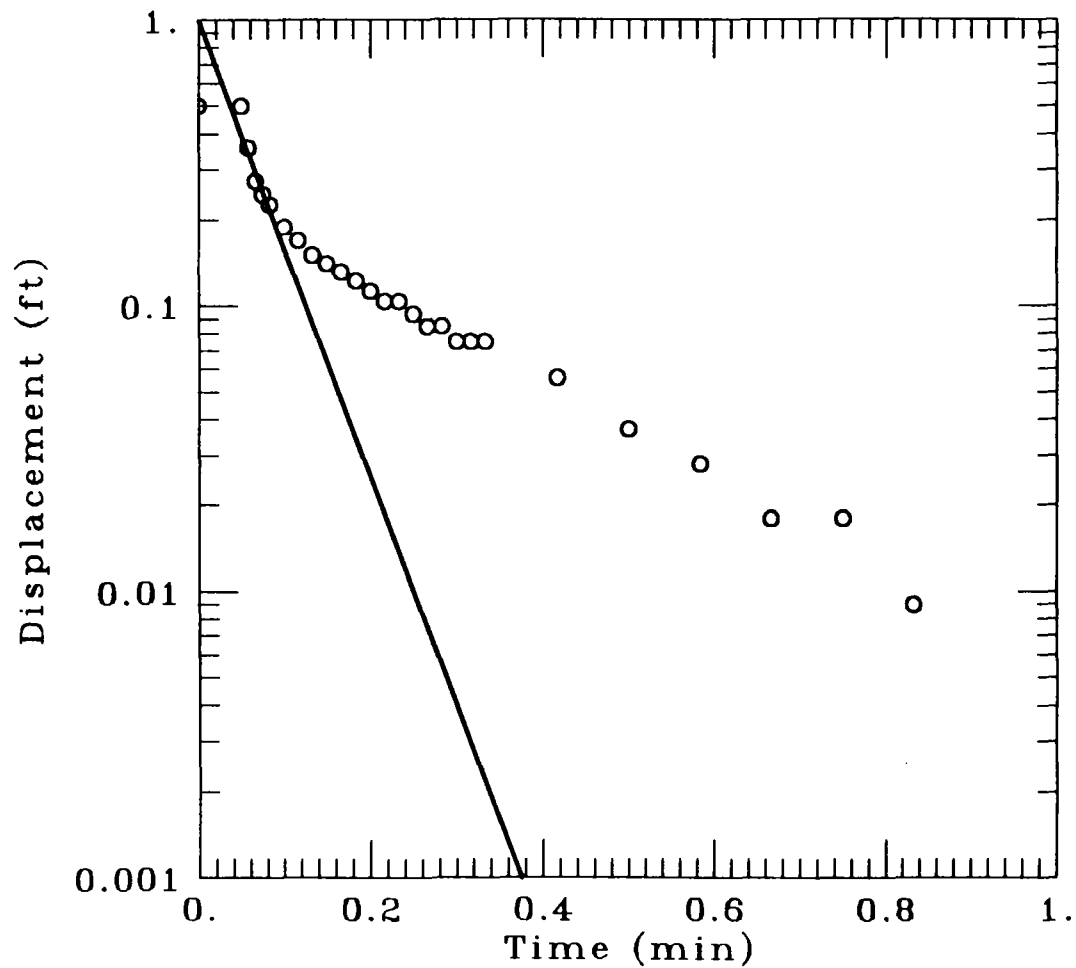
$r_w = 0.04$ ft

$L = 1.$ ft

$b = 65.2$ ft

$H = 2.35$ ft

140 FALLING HEAD TEST



DATA SET:

140fht.dat

08/24/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

ESTIMATED PARAMETERS:

$K = 0.01281 \text{ ft/min}$

$y_0 = 1.012 \text{ ft}$

TEST DATA:

$H_0 = 0.501 \text{ ft}$

$r_c = 0.083 \text{ ft}$

$r_w = 0.25 \text{ ft}$

$L = 13. \text{ ft}$

$b = 30. \text{ ft}$

$H = 13. \text{ ft}$

MAX. CYLINDER VOLUME: 3,000 ml
HT. OF CYLINDER BASE: 17.6 cm

[illegible]

PROJECT: PARKER LANDFILL PROJECT

TEST DATE: JULY 17, 1992
GEOLOGIST: K. DUBOIS

LOCATION: LYNDONVILLE, VERMONT

INSIDE RING

CLIENT: PRP GROUP

INSIDE DIAMETER: 30.3 cm

AMBIENT AIR TEMPERATURE: 85

TOTAL RING HEIGHT: NR

RELATIVELY HUMIDITY: Dry

HT. RING ABOVE G.S.: NR

WEATHER CONDITIONS DURING TEST: Clear and sunny, no wind.

DEPTH OF PENETRATION: NR

HEIGHT CONSTANT WATER
LEVEL ABOVE G.S.: 10.16 cm
CONSTANT WATER VOLUME: 7325.36ml
AREA OF RING: 721 sq. cm.

[illegible]

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm

TOTAL RING HEIGHT: NR

HT. RING ABOVE G.S.: NR

DEPTH OF PENETRATION: NR

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 21.9 l

AREA OF RING: 2884 sq. cm.

AREA OF ANNULUS: 2163 sq. cm.

LARGE MARRIOT TUBE

MAX. CYLINDER VOLUME: 10,000 ml

HT. OF CYLINDER BASE: 10.16 cm

SMALL MARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml

HT. OF CYLINDER BASE: 10.16 cm

* RE-FILLED CYLINDER WHEN WATER LEVEL DROPPED TO 600 ml.

HT. OF CYLINDER BASE: 10.16 cm

TEST LOCATION NO. 1-4 (1WS2)
FILE NO. 4905024.0101
PAGE 1 OF 1

PROJECT: PARKER LANDFILL PROJECT

TEST DATE: JULY 20. 1992
GEOLOGIST: K. DUBOIS

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

AMBIENT AIR TEMPERATURE: 91
RELATIVELY HUMIDITY: Dry
WEATHER CONDITIONS DURING TEST: Sunny and clear, no wind.

INSIDE RING
INSIDE DIAMETER: 30.3 cm
TOTAL RING HEIGHT: 50.8 cm
HT. RING ABOVE G.S.: 45.0 cm
DEPTH OF PENETRATION: 5.8 cm
HEIGHT CONSTANT WATER
LEVEL ABOVE G.S.: 10.16 cm
CONSTANT WATER VOLUME: 7325.36ml
AREA OF RING: 721 sq.cm.

OUTSIDE RING

INSIDE DIAMETER:	60.6 cm
TOTAL RING HEIGHT:	51.0 cm
HT. RING ABOVE G.S.:	46.0 cm
DEPTH OF PENETRATION:	5.0 cm
HEIGHT CONSTANT WATER LEVEL ABOVE G.S.:	10.16 cm
CONSTANT WATER VOLUME:	21.9 l
AREA OF RING:	2884 sq. cm.
AREA OF ANNULUS:	2163 sq. cm.

LARGE MARRIOT TUBE
MAX. CYLINDER VOLUME: 10,000 ml
HT. OF CYLINDER BASE: 10.16 cm

SMALL MARRIOT TUBE
MAX. CYLINDER VOLUME: 3,000 ml
HT. OF CYLINDER BASE: 10.16 cm

[illegible]

PROJECT: PARKER LANDFILL PROJECT

TEST DATE: JULY 21, 1992
GEOLOGIST: K. DUBOIS

CATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

AMBIENT AIR TEMPERATURE: 85

RELATIVELY HUMIDITY: Dry

WEATHER CONDITIONS DURING TEST: Sunny and clear, no wind.

INSIDE RING

INSIDE DIAMETER: 30.3 cm

TOTAL RING HEIGHT: 50.8 cm

HT. RING ABOVE G.S.: 47.5 cm

DEPTH OF PENETRATION: 3.3 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 7325.36ml

AREA OF RING: 721 sq.cm.

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm

TOTAL RING HEIGHT: 51.0 cm

HT. RING ABOVE G.S.: 47.5 cm

DEPTH OF PENETRATION: 3.5 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 21.9 l

AREA OF RING: 2884 sq.cm.

AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOTT TUBE

MAX. CYLINDER VOLUME: 10,000 ml

HT. OF CYLINDER BASE: 10.16 cm

SMALL MARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml

HT. OF CYLINDER BASE: 10.16 cm

[illegible]

SUBJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

AMBIENT AIR TEMPERATURE: 85

RELATIVELY HUMIDITY: Dry

WEATHER CONDITIONS DURING TEST: Sunny and clear, no wind.

TEST DATE: JULY 21, 1992
GEOLOGIST: K. DUBOIS

INSIDE RING

INSIDE DIAMETER: 30.3 cm

TOTAL RING HEIGHT: 50.8

HT. RING ABOVE G.S.: 47.5 cm

DEPTH OF PENETRATION: 3.3 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 7325.36ml

AREA OF RING: 721 sq.cm.

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm

TOTAL RING HEIGHT: 51.0 cm

HT. RING ABOVE G.S.: 47.5 cm

DEPTH OF PENETRATION: 3.5 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 21.9 l

AREA OF RING: 2884 sq.cm.

AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOT TUBE

MAX. CYLINDER VOLUME: 10,000 ml

HT. OF CYLINDER BASE: 47.5 cm

SMALL MARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml

HT. OF CYLINDER BASE: 47.5 cm

PROJECT: PARKER LANDFILL PROJECT

TEST DATE: JULY 21, 1992
GEOLOGIST: K. DUBOIS

LOCATION: LYNDONVILLE, VERMONT

INSIDE RING

CLIENT: PRP GROUP

INSIDE DIAMETER: 30.3 cm
TOTAL RING HEIGHT: 50.8 CM
HT. RING ABOVE G.S.: 46.0 cm
DEPTH OF PENETRATION: 4.8 CM
HEIGHT CONSTANT WATER
LEVEL ABOVE G.S.: 10.16 cm
CONSTANT WATER VOLUME: 7325.36ml
AREA OF RING: 721 sq.cm.

AMBIENT AIR TEMPERATURE: 90

RELATIVELY HUMIDITY: Dry

WEATHER CONDITIONS DURING TEST: Sunny and clear, no wind.

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm
TOTAL RING HEIGHT: 51.0
HT. RING ABOVE G.S.: 48.5 cm
DEPTH OF PENETRATION: 2.5 CM
HEIGHT CONSTANT WATER
LEVEL ABOVE G.S.: 10.16 cm
CONSTANT WATER VOLUME: 21.9 l
AREA OF RING: 2884 sq.cm.
AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOTT TUBE

MAX. CYLINDER VOLUME: 10,000 ml
HT. OF CYLINDER BASE: 48.5 cm

SMALL MARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml
HT. OF CYLINDER BASE: 46.0 cm

REMARKS

Re-filled cylinder at $T = 1525$
after it drained to 0 ml.

[illegible]

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

AMBIENT AIR TEMPERATURE: 85

RELATIVELY HUMIDITY: Dry

WEATHER CONDITIONS DURING TEST: Sunny and clear, no wind.

TEST DATE: JULY 21, 1992

GEOLOGIST: K. DUBOIS

INSIDE RING

INSIDE DIAMETER: 30.3 cm

TOTAL RING HEIGHT: 50.8 cm

HT. RING ABOVE G.S.: 44.6 cm

DEPTH OF PENETRATION: 6.2 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 7325.36 ml

AREA OF RING: 721 sq.cm..

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm

TOTAL RING HEIGHT: 51.0 cm

HT. RING ABOVE G.S.: 41.0 cm

DEPTH OF PENETRATION: 10.0 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 21.9 l

AREA OF RING: 28.84 sq.cm.

AREA OF ANNULUS: 21.63 sq.cm.

LARGE MARRIOT TUBE

MAX. CYLINDER VOLUME: 10,000 ml

HT. OF CYLINDER BASE: 13.7 cm

SMALL MARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml

HT. OF CYLINDER BASE: 10.16 cm

REMARKS

1. Re-filled large cylinder to 10,000 ml at $T = 1700$, 0.6 ml of water was still in the cylinder at that time.
2. Re-filled small cylinder to 2,000 ml at $T = 1700$ by adding 2,020 ml.

TEST LOCATION NO. 1-9 (IWS1)
FILE NO. 4905024.0101
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TEST DATE: JULY 22, 1992
GEOLOGIST: K. DUBOIS

INSIDE RING

INSIDE DIAMETER: 30.3 cm
TOTAL RING HEIGHT: 44.8 cm
HT. RING ABOVE G.S.: 47.5 cm
DEPTH OF PENETRATION: 6.0 cm
HEIGHT CONSTANT WATER
LEVEL ABOVE G.S.: 10.16 cm
CONSTANT WATER VOLUME: 7325 ml
AREA OF RING: 721 sq.cm.

WEATHER CONDITIONS DURING TEST: Sunny and clear, no wind.

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm
TOTAL RING HEIGHT: 51.0 cm
HT. RING ABOVE G.S.: 47.5 cm
DEPTH OF PENETRATION: 10.8 cm
HEIGHT CONSTANT WATER
LEVEL ABOVE G.S.: 10.16 cm
CONSTANT WATER VOLUME: 21.9 l
AREA OF RING: 2884 sq.cm.
AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOT TUBE

MAX. CYLINDER VOLUME: 10,000 ml
HT. OF CYLINDER BASE: 40.2 cm

SMALL MARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml
HT. OF CYLINDER BASE: 44.8 cm

REMARKS

1. Re-filled large cylinder at
T = 0920 to 9,000 ml, 1,000 ml
was still in the cylinder.

[illegible]

TEST LOCATION NO. I-10 (IWS 1)
FILE NO. 4905024.0101
PAGE 1 OF 1

TEST DATE: JULY 22, 1992
GEOLOGIST: K. DUBOIS

INSIDE RING
 INSIDE DIAMETER: 30.3 cm
 TOTAL RING HEIGHT: 50.8 cm
 HT. RING ABOVE G.S.: 46.0 cm
 DEPTH OF PENETRATION: 4.8 cm
 HEIGHT CONSTANT WATER
 LEVEL ABOVE G.S.: 10.16 cm
 CONSTANT WATER VOLUME: 7325.36ml
 AREA OF RING: 721 sq.cm.

OUTSIDE RING
 INSIDE DIAMETER: 60.6 cm
 TOTAL RING HEIGHT: 51.0 cm
 HT. RING ABOVE G.S.: 44.8 cm
 DEPTH OF PENETRATION: 6.2 cm
 HEIGHT CONSTANT WATER
 LEVEL ABOVE G.S.: 10.16 cm
 CONSTANT WATER VOLUME: 21.9 l
 AREA OF RING: 2884 sq.cm.
 AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOT TUBE
MAX. CYLINDER VOLUME: 10,000 ml
HT. OF CYLINDER BASE: 44.8 cm

SMALL MARRIOT TUBE
MAX. CYLINDER VOLUME: 3,000 ml
HT. OF CYLINDER BASE: 46.0 cm

REMARKS

[illegible]

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

AMBIENT AIR TEMPERATURE: 90

RELATIVELY HUMIDITY: Dry

WEATHER CONDITIONS DURING TEST: Sunny and clear, no wind.

TEST DATE: JULY 22, 1992

GEOLOGIST: K. DUBOIS

INSIDE RING

INSIDE DIAMETER: 33.3 cm

TOTAL RING HEIGHT: 50.8 cm

HT. RING ABOVE G.S.: 43.5 cm

DEPTH OF PENETRATION: 7.3 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 7325.36ml

AREA OF RING: 721 sq.cm.

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm

TOTAL RING HEIGHT: 51.0 cm

HT. RING ABOVE G.S.: 45.5 cm

DEPTH OF PENETRATION: 5.5 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 21.9 L

AREA OF RING: 2884 sq.cm.

AREA OF ANNULUS: 2163 sq.cm.

LARGE HARRIOT TUBE

MAX. CYLINDER VOLUME: 10,000 ml

HT. OF CYLINDER BASE: 45.5 cm

SMALL MARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml

HT. OF CYLINDER BASE: 43.5 cm

REMARKS

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

AMBIENT AIR TEMPERATURE: 68

RELATIVELY HUMIDITY: Very humid

WEATHER CONDITIONS DURING TEST: Light rain

TEST DATE: JULY 23, 1992

GEOLOGIST: K. DUBOIS

INSIDE RING

INSIDE DIAMETER: 30.3 cm

TOTAL RING HEIGHT: 50.8 cm

HT. RING ABOVE G.S.: 42.5 cm

DEPTH OF PENETRATION: 8.3 mm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 7325.36ml

AREA OF RING: 721 sq.cm.

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm

TOTAL RING HEIGHT: 51.0 cm

HT. RING ABOVE G.S.: 44.0 cm

DEPTH OF PENETRATION: 7.70 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 21.9 l

AREA OF RING: 2884 sq.cm.

AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOT TUBE

MAX. CYLINDER VOLUME: 10,000 ml

HT. OF CYLINDER BASE: 44.0 cm

SMALL HARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml

HT. OF CYLINDER BASE: 42.5 cm

REMARKS

1. Covered test assembly with a tarp to prevent rain from entering the assembly.
2. Overall infiltration rate is less than $1.3E-7$.

TEST LOCATION NO. I-13 (SWDA)
FILE NO. 4905024.0101
PAGE 1 OF 1

TEST DATE: JULY 23, 1992
GEOLOGIST: K. DUBOIS

INSIDE RING
 INSIDE DIAMETER: 30.3 cm
 TOTAL RING HEIGHT: 50.8 cm
 HT. RING ABOVE G.S.: 43.0 cm
 DEPTH OF PENETRATION: 7.8 cm
 HEIGHT CONSTANT WATER
 LEVEL ABOVE G.S.: 10.16 cm
 CONSTANT WATER VOLUME: 7325.36ml
 AREA OF RING: 721 sq.cm.

OUTSIDE RING
INSIDE DIAMETER: 60.6 cm
TOTAL RING HEIGHT: 51.0 cm
HT. RING ABOVE G.S.: 44.5 cm
DEPTH OF PENETRATION: 6.5 cm
HEIGHT CONSTANT WATER
LEVEL ABOVE G.S.: 10.16 cm
CONSTANT WATER VOLUME: 21.9 l
AREA OF RING: 2884 sq.cm.
AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOT TUBE
MAX. CYLINDER VOLUME: 10,000 ml
HT. OF CYLINDER BASE: 44.5 cm

SMALL MARRIOT TUBE
MAX. CYLINDER VOLUME: 3,000 ml
HT. OF CYLINDER BASE: 43.0 cm

REMARKS

1. Covered the test assembly with a tarp to prevent rain from entering the assembly.

[illegible]

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

AMBIENT AIR TEMPERATURE: 74

RELATIVELY HUMIDITY: Very humid

WEATHER CONDITIONS DURING TEST: Light rain

TEST DATE: JULY 23, 1992

GEOLOGIST: K. DUBOIS

INSIDE RING

INSIDE DIAMETER: 30.3 cm

TOTAL RING HEIGHT: 50.8 cm

HT. RING ABOVE G.S.: 47.5 cm

DEPTH OF PENETRATION: 3.3 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 7325.36ml

AREA OF RING: 721 sq.cm.

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm

TOTAL RING HEIGHT: 51.0 cm

HT. RING ABOVE G.S.: 45.8 cm

DEPTH OF PENETRATION: 5.2 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 21.9 L

AREA OF RING: 2884 sq.cm.

AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOT TUBE

MAX. CYLINDER VOLUME: 10,000 ml

HT. OF CYLINDER BASE: 45.8 cm

SMALL MARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml

HT. OF CYLINDER BASE: 47.5 cm

REMARKS

1. Covered test assembly with a tarp to prevent rain from entering the assembly.

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. FIVE OVERLOOK DRIVE AMHERST, NH 03031		DOUBLE RING FIELD INFILTROMETER TEST REPORT FORM		TEST LOCATION NO. 1-15 (SWDA) FILE NO. 4905024.0101 PAGE 1 OF 1				
PROJECT: PARKER LANDFILL PROJECT				TEST DATE: JULY 23, 1992 GEOLOGIST: K. DUBOIS				
LOCATION: LYNDONVILLE, VERMONT				INSIDE RING INSIDE DIAMETER: 30.3 cm TOTAL RING HEIGHT: 50.8 cm HT. RING ABOVE G.S.: 45.0 cm DEPTH OF PENETRATION: 5.08 cm HEIGHT CONSTANT WATER LEVEL ABOVE G.S.: 10.16 cm CONSTANT WATER VOLUME: 7325.36 ml AREA OF RING: 721 sq.cm.				
CLIENT: PRP GROUP				OUTSIDE RING INSIDE DIAMETER: 60.6 cm TOTAL RING HEIGHT: 51.0 cm HT. RING ABOVE G.S.: 46.5 cm DEPTH OF PENETRATION: 4.50 cm HEIGHT CONSTANT WATER LEVEL ABOVE G.S.: 10.16 cm CONSTANT WATER VOLUME: 21.9 l AREA OF RING: 2884 sq.cm. AREA OF ANNULUS: 2163 sq.cm.				
AMBIENT AIR TEMPERATURE: 74 RELATIVELY HUMIDITY: Very Humid WEATHER CONDITIONS DURING TEST: Overcast and intermittent light rain				LARGE MARRIOT TUBE MAX. CYLINDER VOLUME: 10,000 ml HT. OF CYLINDER BASE: 46.5 cm				
TIME	ELAPSED TIME	LGE. MARRIOT TUBE VOL.	INC. VOL. CHANGE	INC. INF. VELOCITY	SM. MARRIOT TUBE VOL.	INC. VOL. CHANGE	INC. INF. VELOCITY	SMALL MARRIOT TUBE MAX. CYLINDER VOLUME: 3,000 ml HT. OF CYLINDER BASE: 45.0 cm
1805	0 sec	10,000 ml	0 ml	0	3,000 ml	0 ml	0	
1820	900 sec	10,000 ml	0 ml	0	3,000 ml	0 ml	0	
1850	1,800 sec	9,150 ml	850 ml	0.0002cm/s	2,870 ml	130 ml	0.0001 cm/s	
2055	7,500 sec	7,450 ml	1,700 ml	0.0001cm/s	2,410 ml	460 ml	0.00009 cm/s	
7/24/92 2405	11,400 sec	5,500 ml	1,950 ml	0.00008 cm/s	2,280 ml	130 ml	0.00002 cm/s	
0820	29,700 sec	1,500 ml	4,000 ml	0.00006 cm/s	1,910 ml	370 ml	0.00002 cm/s	
								REMARKS
								1. Covered test assembly with a tarp to shelter in from rain.

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

AMBIENT AIR TEMPERATURE: 78

RELATIVELY HUMIDITY: Dry

WEATHER CONDITIONS DURING TEST: Sunny and clear, no wind.

TEST DATE: JULY 24, 1992

GEOLOGIST: K. DUBOIS

INSIDE RING

INSIDE DIAMETER: 30.3 cm

TOTAL RING HEIGHT: 50.8 cm

HT. RING ABOVE G.S.: 38.5 cm

DEPTH OF PENETRATION: 12.3 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 7325.36 ml

AREA OF RING: 721 sq.cm.

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm

TOTAL RING HEIGHT: 51.0 cm

HT. RING ABOVE G.S.: 40.0 cm

DEPTH OF PENETRATION: 11.0 cm

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 21.9 l

AREA OF RING: 2884 sq.cm.

AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOT TUBE

MAX. CYLINDER VOLUME: 10,000 ml

HT. OF CYLINDER BASE: 40.0 cm

SMALL HARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml

HT. OF CYLINDER BASE: 38.5 cm

REMARKS

[illegible]

* Re-filled cylinder

PROJECT: PARKER LANDFILL PROJECT

LOCATION: LYNDONVILLE, VERMONT

CLIENT: PRP GROUP

AMBIENT AIR TEMPERATURE: 78

RELATIVELY HUMIDITY: Dry

WEATHER CONDITIONS DURING TEST: Sunny and clear, no wind.

TEST DATE: JULY 24, 1992

GEOLOGIST: K. DUBOIS

INSIDE RING

INSIDE DIAMETER: 30.3 cm

TOTAL RING HEIGHT: 50.8 cm

HT. RING ABOVE G.S.; NR

DEPTH OF PENETRATION: NR

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 7325.36ml

AREA OF RING: 721 sq.cm.

OUTSIDE RING

INSIDE DIAMETER: 60.6 cm

TOTAL RING HEIGHT: 5.10 cm

HT. RING ABOVE G.S.: NR

DEPTH OF PENETRATION: NR

HEIGHT CONSTANT WATER

LEVEL ABOVE G.S.: 10.16 cm

CONSTANT WATER VOLUME: 21.9 l

AREA OF RING: 2884 sq.cm.

AREA OF ANNULUS: 2163 sq.cm.

LARGE MARRIOTT TUBE

MAX. CYLINDER VOLUME: 10,000 ml

HT. OF CYLINDER BASE: NR

SMALL HARRIOT TUBE

MAX. CYLINDER VOLUME: 3,000 ml

HT. OF CYLINDER BASE: NR

REMARKS

The large cylinder could not discharge water at a rate sufficient to maintain a constant head of water.

The test was aborted.

[illegible]