APPENDIX C

Plumbness and Alignment Test
# Well Inspection Report

**CLIENT:** AMEC  
**ADDRESS:**  
**CONTACT:** Chris Courtney  
**JOB LOCATION:** PALM VALLEY BLVD.

<table>
<thead>
<tr>
<th>WELL NUMBER:</th>
<th>EA-07</th>
<th>JOB NUMBER:</th>
<th>1000-2358</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURVEYED BY:</td>
<td>TONY LARSEN</td>
<td>DATE:</td>
<td>7-Jul-10</td>
</tr>
<tr>
<td>REVIEWED BY:</td>
<td></td>
<td>WATER LEVEL:</td>
<td>121' 8&quot;</td>
</tr>
<tr>
<td>WATER CONDITION:</td>
<td>CLOUDY</td>
<td>TOTAL DEPTH:</td>
<td></td>
</tr>
<tr>
<td>CASING DIAMETER:</td>
<td>12&quot; ID CASING</td>
<td>SURVEY DEPTH:</td>
<td>221'</td>
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## NOTES:

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>REMARKS</th>
</tr>
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<tr>
<td>0-</td>
<td>AT GROUND LEVEL (CASING 32' UP)</td>
</tr>
<tr>
<td>121' 8&quot;</td>
<td>STATIC WATER LEVEL (CLOUDY)</td>
</tr>
<tr>
<td>139'</td>
<td>STAINLESS STEEL CASING</td>
</tr>
<tr>
<td>141'</td>
<td>PERFORATIONS START (LOUVERED)</td>
</tr>
<tr>
<td>200'</td>
<td>BLANK CASING</td>
</tr>
<tr>
<td>221'</td>
<td>TOP OF SOFT FILL</td>
</tr>
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</table>

**Perforation:** LOUVERED
This Wellbore Interpretation Package represents our best efforts to provide a correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical or other types of measurements, we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by Customer resulting from any interpretation made by this document. We do not warrant or guarantee the accuracy of the data, specifically including (but without limitations) the accuracy of data transmitted by electronic process, and we will not be responsible for accidental or intentional interception of such data by third parties. Our employees are not empowered to change or otherwise modify the attached interpretation. Furthermore, along with Eagle Pro Software we do not warrant or guarantee the accuracy of the programming techniques employed to produce this document. By accepting this Interpretation Package, the Customer agrees to the foregoing, and to our General Terms and Conditions.
WELLBORE DRIFT INTERPRETATION
Southwest Exploration Services, LLC
(480) 926-4558

Company: LAYNE CHRISTENSEN CO
Well Owner: CRANE CO

County: MARICOPAK
State: Arizona
Country: United States

Well Number: EA-07
Survey Date: Wednesday - July 7, 2010
Magnetic Declination: Declination Correction Not Used

Field: GOODYEAR
Drift Calculation Methodology: Radius of Curvature Method

Location:
Remarks: Depth Logged = 220 FT

Witness: C. AMEC-GEOMAT
Vehicle No.: 300
Invoice No.: 4788
Operator: K. MITCHELL
Well Depth: 220 Feet
Casing size: 12 inches

Tool: Gyro
Lat.: Long.: Sec.: Twp.: Rge.:

<table>
<thead>
<tr>
<th>DEPTHS, feet</th>
<th>INCLINATIONS, degrees</th>
<th>AZIMUTHS, degrees</th>
<th>TVD, feet</th>
<th>T. LATITUDE, feet</th>
<th>T. LONGITUDE, feet</th>
<th>DOGLEG SEV., degrees per 20 Feet</th>
<th>DOGLEG SEV., degrees per 100 feet</th>
<th>DRIFT DIST., feet</th>
<th>DRIFT BGR., degrees</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>0.00</td>
<td>000.00</td>
<td>0.00</td>
<td>-0.001</td>
<td>0.000</td>
<td>1.00</td>
<td>0.16</td>
<td>0.00' (0.00&quot;)</td>
<td>153.30</td>
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<td>20</td>
<td>0.03</td>
<td>306.52</td>
<td>19.99</td>
<td>-0.010</td>
<td>0.000</td>
<td>1.00</td>
<td>0.16</td>
<td>0.01' (0.12&quot;)</td>
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<td>323.87</td>
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<td>0.000</td>
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<td>59.97</td>
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<td>0.16</td>
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<td>096.78</td>
<td>79.36</td>
<td>0.018</td>
<td>0.001</td>
<td>1.00</td>
<td>0.16</td>
<td>0.01' (0.12&quot;)</td>
<td>002.00</td>
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<td>100</td>
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<td>108.05</td>
<td>99.96</td>
<td>0.013</td>
<td>0.011</td>
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<td>0.16</td>
<td>0.01' (0.12&quot;)</td>
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<td>116.79</td>
<td>119.95</td>
<td>0.008</td>
<td>0.022</td>
<td>1.00</td>
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<td>0.01' (0.12&quot;)</td>
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<td>0.03</td>
<td>121.40</td>
<td>139.94</td>
<td>0.002</td>
<td>0.033</td>
<td>1.00</td>
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<td>0.17</td>
<td>321.73</td>
<td>159.93</td>
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<td>0.020</td>
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<td>270.25</td>
<td>179.92</td>
<td>0.017</td>
<td>0.042</td>
<td>1.00</td>
<td>0.16</td>
<td>0.01' (0.12&quot;)</td>
<td>292.30</td>
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<tr>
<td>200</td>
<td>0.01</td>
<td>193.69</td>
<td>199.91</td>
<td>-0.008</td>
<td>0.074</td>
<td>1.00</td>
<td>0.16</td>
<td>0.01' (0.12&quot;)</td>
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<td>220</td>
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<td>254.61</td>
<td>219.90</td>
<td>-0.025</td>
<td>-0.090</td>
<td>1.00</td>
<td>0.16</td>
<td>0.01' (0.12&quot;)</td>
<td>254.70</td>
</tr>
</tbody>
</table>

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True Vertical Depth: 219.90'
Final Drift Distance: .09' (1.08")
Final Drift Bearing: 254.70°

Note: Magnetic Declination is not used because it is not a factor in the calculation of well drift or alignment. Magnetic Declination is only important if attempting to hit a target or miss another well and then it is included in the calculations.
PLANE OF DRIFT VIEW - EA-07
LAYNE CHRISTENSEN CO
CRANE CO

Drift Distance = 0.09 Feet  Drift Bearing = 254.7 Degrees  True Vertical Depth = 219.90 Feet

Date of Survey: Wednesday - July 7, 2010

Southwest Exploration Services, LLC  (480) 926-4558
AWWA ALLOWABLE vs. ACTUAL DRIFT COMPARISON - EA-07
LAYNE CHRISTENSEN CO
CRANE CO
Drift Distance = 0.09 Feet  Drift Bearing = 254.7 Degrees  True Vertical Depth = 219.90 Feet

WITHIN SPECIFICATIONS

OUTSIDE SPECIFICATIONS

Date of Survey: Wednesday - July 7, 2010
Radius of Curvature Calculation Method
Southwest Exploration Services, LLC  (480) 926-4558

Page No. 3
Drift Distance = 0.09 Feet    Drift Bearing = 254.7 Degrees    True Vertical Depth = 219.90 Feet

Date of Survey: Wednesday - July 7, 2010

Radius of Curvature Calculation Method

Southwest Exploration Services, LLC  (480) 926-4558
Drift Distance = 0.09 Feet  Drift Bearing = 254.7 Degrees  True Vertical Depth = 219.90 Feet

Date of Survey: Wednesday - July 7, 2010

Southwest Exploration Services, LLC (480) 926-4558
Radius of Curvature Methodology

The Radius of Curvature Method uses sets of angles measured at the upper and lower ends of the course length to generate a space curve (representing the wellbore path) that has the shape of a spherical arc passing through the measured angles at both the upper and lower ends of the measured course. This method assumes that the wellbore is a smooth curvature which describes the segment by the three-dimensional vectors (survey points) with a known distance between the survey points. The Radius of Curvature Method of calculating a survey provides one of the more accurate means of determining the position of a given wellbore.

\[
\Delta \text{North} = \frac{\Delta \text{MD} \ [\cos(l_1) - \cos(l_2)] \times [\sin(A_2) - \sin(A_1)]}{(l_2 - l_1) \times (A_2 - A_1)}
\]

\[
\Delta \text{East} = \frac{\Delta \text{MD} \ [\cos(l_1) - \cos(l_2)] \times [\cos(A_2) - \cos(A_1)]}{(l_2 - l_1) \times (A_2 - A_1)}
\]

\[
\Delta \text{Vert} = \frac{\Delta \text{MD} \ [\sin(l_2) + \sin(l_1)]}{(l_2 - l_1)}
\]