

HALLIBURTON



ALD Azimuthal Lithodensity
CTN Compensated Thermal Neutron
CNØ Compensated Neutron Porosity
DGR Dual Gamma Ray
EWR-Phase 4
ACAL Acoustic Caliper

1 : 1000

Sperry Drilling Services

| | | | |
|--|-------------------------------|-------------------------------|------------|
| Country : Australia | | Company : Woodside Energy Ltd | |
| Field : Thylacine | | Rig : Maersk Guardian | |
| Location : 39° 14' 14.56" South GDA94 142° 54' 7.58" East GDA94 | | Well : THA04 | |
| Well : THA04 | | Field : Thylacine | |
| Company : Woodside Energy Ltd | | Country : Australia | |
| Rig : Maersk Guardian | | DOE Number : | |
| LOCATION | | Other Services | |
| Latitude : 39° 14' 14.56" South GDA94 Longitude : 142° 54' 7.58" East GDA94 | | Directional Drilling | |
| UTM Easting = 664,161.0 m UTM Northing = 5,655,156.8 m | | | |
| Permanent Datum : LAT | Elevation : 0.00 m | Elev. KB | |
| Log Measured From : Drill Floor | 50.50 m Above Permanent Datum | DF 50.50 m | |
| Drilling Measured From : Drill Floor | TVD LOG | GL WD 99.30 m | |
| Depth Logged : 649.36 m To 2,253.83 m | Unit No. : SSDS-40 | Job No. : AU-FE-0003930660 | |
| Date Logged : 10-Aug-06 To 28-Aug-06 | Plot Type : Final | | |
| Total Depth MD : 3,987.00 m TVD : 2,253.83 m | Plot Date : 27-Sep-06 | | |
| Spud Date : 12-Aug-06 | | | |
| Run No. | Borehole Record (TVD) | | Run No. |
| | Size | From | To |
| 100 | 311,000 mm | 649.36 m | 2,282.02 m |
| 200 | 216,000 mm | 2,282.02 m | 2,233.86 m |
| 300 | 216,000 mm | 2,233.86 m | 2,253.83 m |
| | Casing Record (TVD) | | |
| | Size | Weight | From |
| | 244,000 mm | 70.00 kgpm | 149.85 m |
| | | | 2,279.97 m |
| | | | |
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WELL INFORMATION

| | | | | | |
|--------------------------------|---------------------|---------------------|---------------------|--|--|
| MWD Run Number | 100 | 200 | 300 | | |
| Date run completed | 18-Aug-06 | 24-Aug-06 | 28-Aug-06 | | |
| Rig Bit Number | 4 | 1 | 1RR | | |
| Bit Size (mm) | 311 | 216 | 216 | | |
| Tool Nominal OD (mm) | 203 | 171 | 171 | | |
| Log Start Depth (TVD, m) | 649.36 | 2282.03 | 2233.86 | | |
| Log End Depth (TVD, m) | 2282.03 | 2233.86 | 2253.83 | | |
| Drill or Wipe | Drilling | Drilling | Drilling | | |
| Drill/Wipe Start Date and Time | 12-Aug-06 07:50 | 21-Aug-06 01:25 | 24-Aug-06 14:00 | | |
| Drill/Wipe End Date and Time | 17-Aug-06 20:48 | 23-Aug-06 05:50 | 27-Aug-06 11:30 | | |
| Min Inc (deg) @ Depth (TVD, m) | 6.30 @ 687.57 | 76.93 @ 2284.26 | 79.76 @ 2224.80 | | |
| Max Inc (deg) @ Depth (TVD, m) | 74.87 @ 2279.44 | 102.62 @ 2273.69 | 96.12 @ 2227.72 | | |
| Bit TFA(in2) / Bit Type | 1.49 / Sec FMF3565Z | 1.11 / Sec FMF3653Z | 1.11 / Sec FMF3653Z | | |
| Flow Rate (gpm) | 1,150 | 740 | 735 | | |
| Max AV (mpm) / CV (mpm) @ MWD | 99.6 / 138.6 | 210.0 / 192.0 | 205.8 / 151.8 | | |
| Fluid Type | SYN-TEQ | SYN-TEQ | SYN-TEQ | | |
| Density (sg) / Viscosity (spl) | 1.25 / 80.3 | 1.25 / 94.1 | 1.25 / 78.2 | | |
| Filtrate CL (ppm) | 36,700 | 31,870 | 30,450 | | |
| pH / Fluid Loss (mptm) | 0 / 3.2 | 0 / 2.8 | 0 / 3 | | |
| PV (cP) / YP (pa) | 41 / 14.8 | 49 / 17.2 | 35 / 12.5 | | |
| % Solids / % Sand | 14.4 / 0.3 | 14.5 / .5 | 14.3 / 0.6 | | |
| % Oil / Oil:Water Ratio | 60.5 / 72:28 | 61.5 / 73:27 | 62.5 / 74:26 | | |
| Rm @ Measured Temp (degC) | N/A @ N/A | N/A @ N/A | N/A @ N/A | | |
| Rmf @ Measured Temp (degC) | N/A @ N/A | N/A @ N/A | N/A @ N/A | | |
| Rmc @ Measured Temp (degC) | N/A @ N/A | N/A @ N/A | N/A @ N/A | | |
| Max Tool Temp (degC) / Source | 104 / EWR-P4 | 101 / EWR-P4 | 115 / EWR-P4 | | |
| Rm @ Max Tool Temp (degC) | N/A @ N/A | N/A @ N/A | N/A @ N/A | | |
| Lead MWD Engineer | T. Osborne | T. Osborne | T. Osborne | | |
| Customer Representative | S. Corless | S. Job | S. Job | | |

SENSOR INFORMATION

| Downhole Processor Information | | | | | |
|--------------------------------|-----------------|-----------------|-----------------|--|--|
| Tool Type | HCIM | HCIM | HCIM | | |
| Software Version | 68.18 | 72.13 | 72.13 | | |
| Sub Serial Number | 189273 | 161828 | 10505777 | | |
| Insert Serial Number | 133489 | 161821 | 161828 | | |
| Date and Time Initialized | 11-Aug-06 15:52 | 21-Aug-06 00:35 | 24-Aug-06 00:46 | | |
| Date and Time Read | 19-Aug-06 00:48 | 24-Aug-06 03:25 | 28-Aug-06 00:15 | | |

| Directional Sensor Information | | | | | |
|--------------------------------|----------|-----------|----------|--|--|
| Tool Type | DM | DM | DM | | |
| Distance From Bit (m) | 8.70 | 8.02 | 8.95 | | |
| Software Version | 3.15 | 3.15 | 4.00 | | |
| Sub Serial Number | CP719940 | CP1015920 | CP973260 | | |
| Sonde Serial Number | 185534 | 185534 | 136742 | | |
| Sensor ID Number | 185534 | 185534 | 136742 | | |
| Toolface Offset (deg) | N/A | N/A | N/A | | |

| Gamma Ray Sensor Information | | | | | |
|------------------------------|----------|----------|--------|--|--|
| Tool Type | DGR | DGR | DGR | | |
| Distance From Bit (m) | 11.21 | 10.56 | 11.50 | | |
| Recorded Sample Period (sec) | 12 | 14 | 14 | | |
| Software Version | N/A | N/A | N/A | | |
| Sub Serial Number | 10718409 | 77761 | 218747 | | |
| Insert/Sonde Serial Number | 087229 | 10505500 | 050437 | | |

| Resistivity Sensor Information | | | | | |
|----------------------------------|--------|--------|--------|--|--|
| Tool Type | EWR-P4 | EWR-P4 | EWR-P4 | | |
| Distance From Bit (m) | 13.56 | 12.89 | 13.85 | | |
| Recorded Sample Period (sec) | 12 | 14 | 14 | | |
| Software Version | 1.38 | 1.38 | 1.38 | | |
| Sub Serial Number | 96506 | 191904 | 197652 | | |
| Receiver Insert Serial Number | 45162 | 77531 | 74703 | | |
| Transmitter Insert Serial Number | 123860 | 106181 | 62499 | | |
| Receiver Orientation | Down | Down | Down | | |

| Neutron Sensor Information | | | | | |
|------------------------------|--|--------|--------|--|--|
| Tool Type | | CTN | CNP | | |
| Distance From Bit (m) | | 24.59 | 24.29 | | |
| Recorded Sample Period (sec) | | 20 | 12 | | |
| Sub Serial Number | | 174118 | 177933 | | |
| Insert Serial Number | | 175366 | 68615 | | |
| Source Serial Number | | 0102NN | 1399NN | | |
| Source Factor | | N/A | 1.1840 | | |
| Pin Orientation | | Up | Up | | |

| Density Sensor Information | | | | | |
|------------------------------|--|----------|----------|--|--|
| Tool Type | | ALD | ALD | | |
| Distance From Bit (m) | | 20.52 | 21.43 | | |
| Recorded Sample Period (sec) | | 20 | 20 | | |
| Software Version | | 2.13 | 2.13 | | |
| Sub Serial Number | | 10718174 | 10503661 | | |
| Insert Serial Number | | 215918 | 10507163 | | |
| Sensor ID Number | | 32081 | 32022 | | |
| Source Serial Number | | 2434GW | 2671GW | | |
| Pin Orientation | | Up | Up | | |
| Stabilizer Blade O.D. (mm) | | 209.550 | 209.550 | | |
| DPA Offset | | 332.30 | 2.00 | | |

| Caliper Sensor Information | | | | | |
|----------------------------|--|-------|-------|--|--|
| Tool Type | | ACAL | ACAL | | |
| Distance From Bit (m) | | 23.53 | 31.34 | | |
| Software Version | | 1.00 | 1.00 | | |

| | | | | |
|----------------------|--|--------|--------|--|
| Software Version | | 4.20 | 4.20 | |
| Sub Serial Number | | 174118 | 123087 | |
| Insert Serial Number | | 175366 | 141728 | |

REMARKS

1.) All depths are bit depths and are referenced to the driller's pipe tally unless otherwise noted.

2.) AV/CV values are calculated at the LWD collar using the Bingham Law for oil based mud, measured in m/min.

3.) Curve Mnemonics used are:

SGRC - Smoothed Combined Gamma Ray, api
 SR0P - Smoothed Rate of Penetration, m/hr
 SEXP - Smoothed Extra-Shallow Phase Resistivity, ohm-metre
 SESP - Smoothed Shallow Phase Resistivity, ohm-metre
 SEMP - Smoothed Medium Phase Resistivity, ohm-metre
 SEDP - Smoothed Deep Phase Resistivity, ohm-metre
 ACAL - Smoothed Acoustic Caliper Hole Size, inches
 SC02 - Smoothed Low count rate Stand Off Correction, g/cc
 SBD2 - Smoothed Low count rate Bulk Density, g/cc
 SNP2 - Smoothed Near Detector Pe, b/e
 TNPL - Smoothed Compensated Thermal Neutron Porosity (LS), v/v

4.) CTN/CNP data has been processed using the following parameters and is based on Limestone matrix:

MW = 1.25 sg
 Formation Salinity = 15,000 ppm Cl
 Mud Salinity = 25,632 - 31,874ppm Cl
 Matrix Density = 2.71 g/cc
 Fluid Density = 1.00 g/cc

5.) TNPL data is from the CTN tool to 2236.4 mTVDRT and from the CNP tool to TD. Data has been reprocessed using hole size derived from the Acoustic Caliper tool.

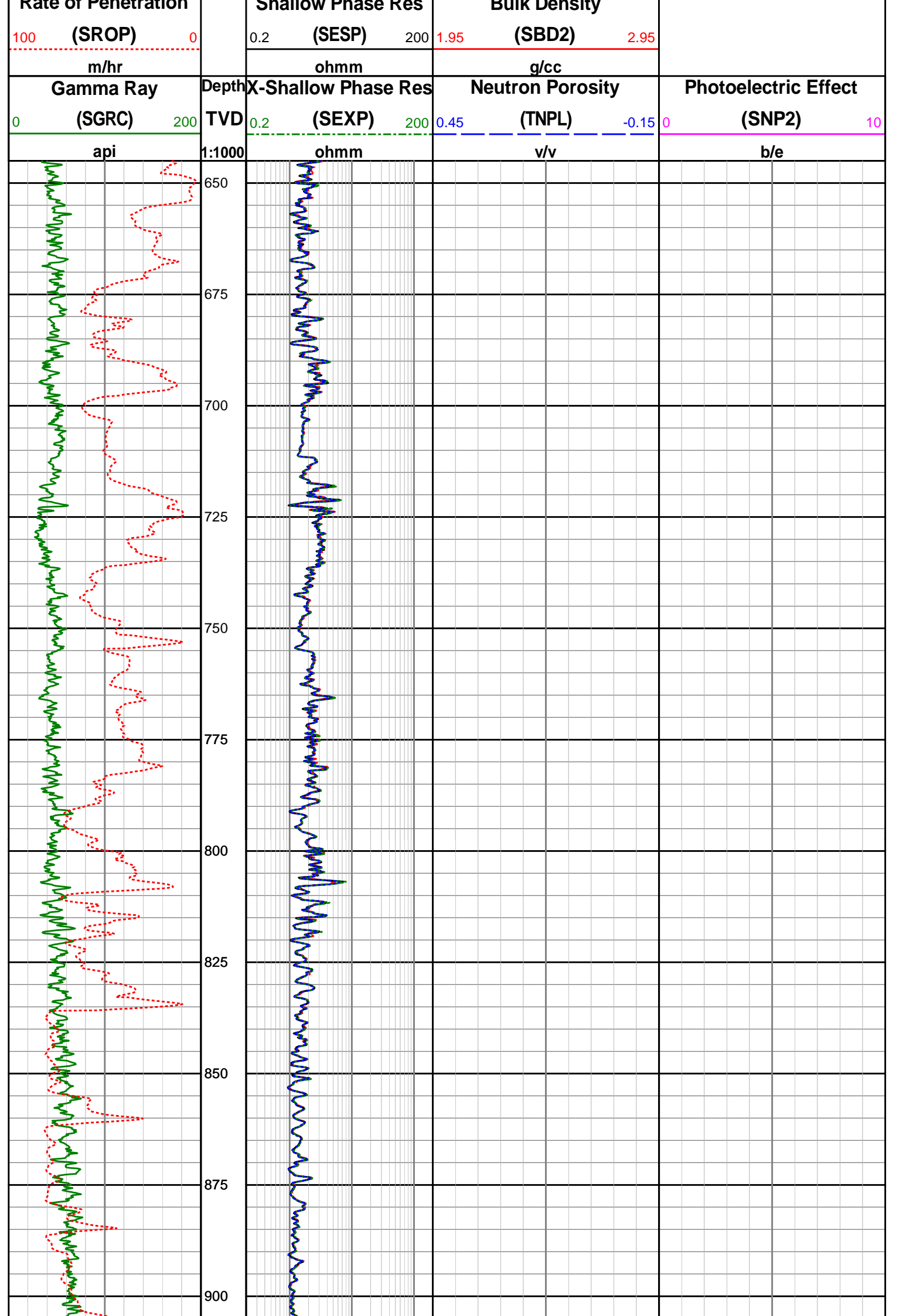
6.) Real-Time Caliper data is presented to 2236.4 mTVDRT.

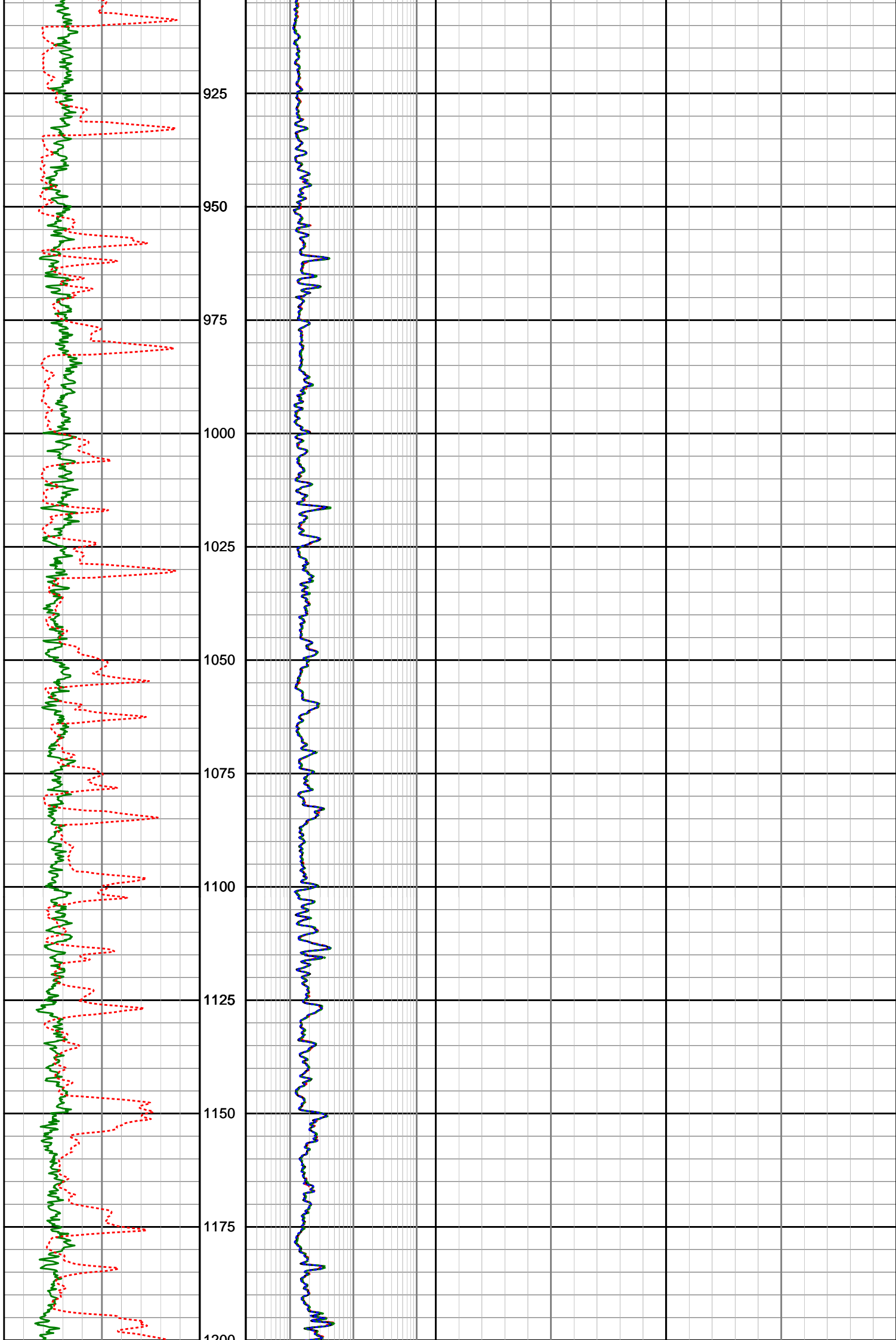
7.) Density data from 2265.6 - 3172.8 mTVDRT is wipe data recorded while POOH.

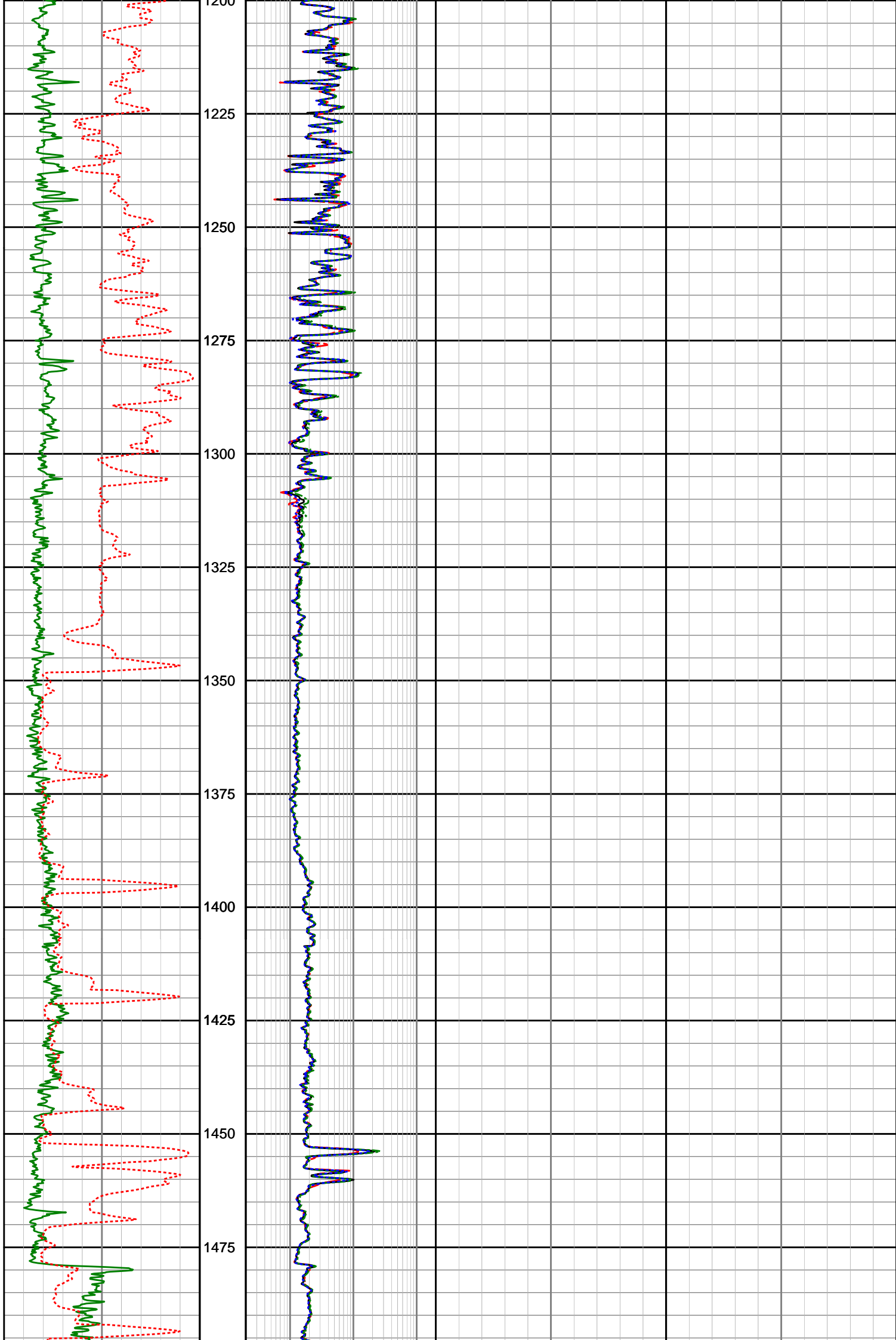
WARRANTY

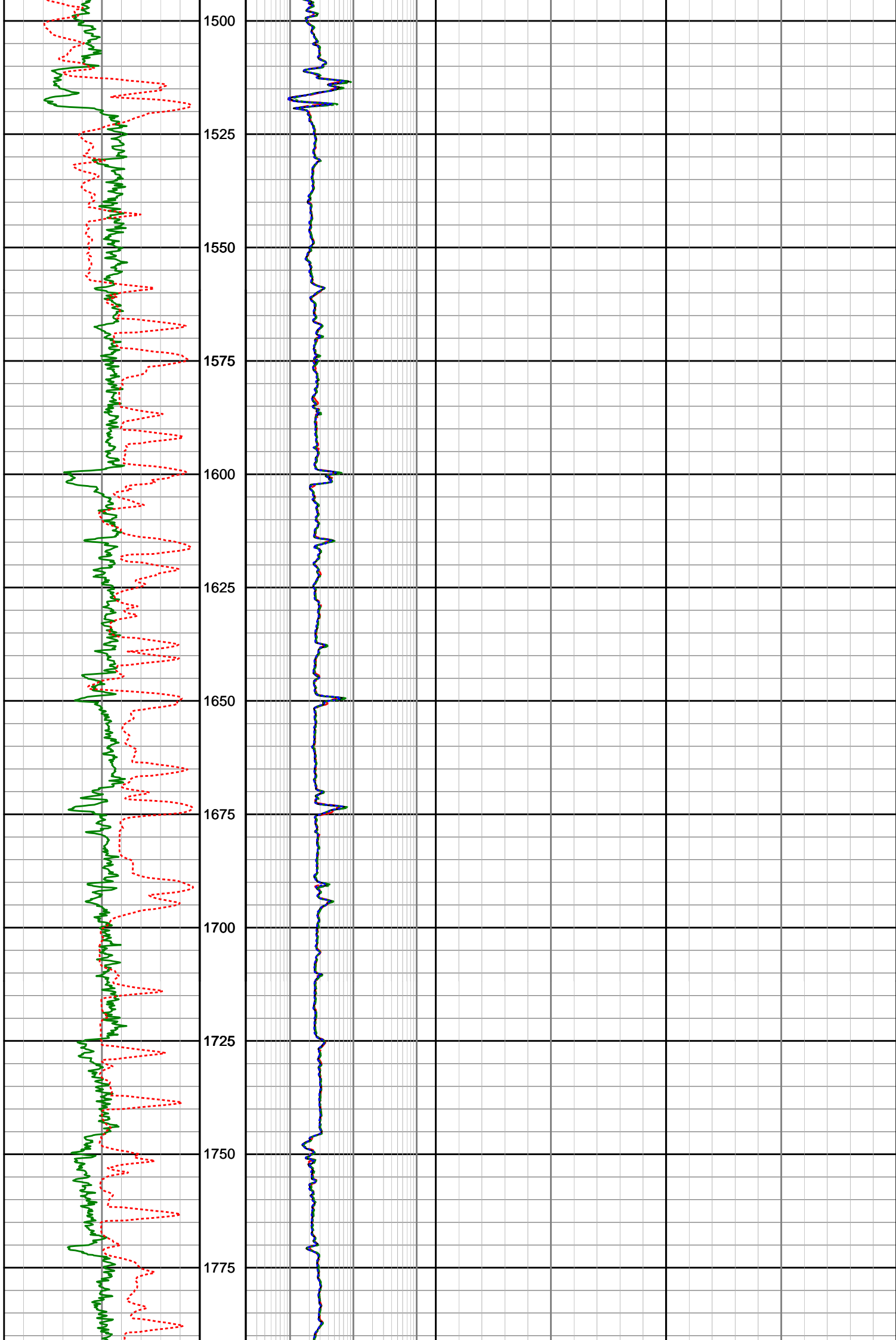
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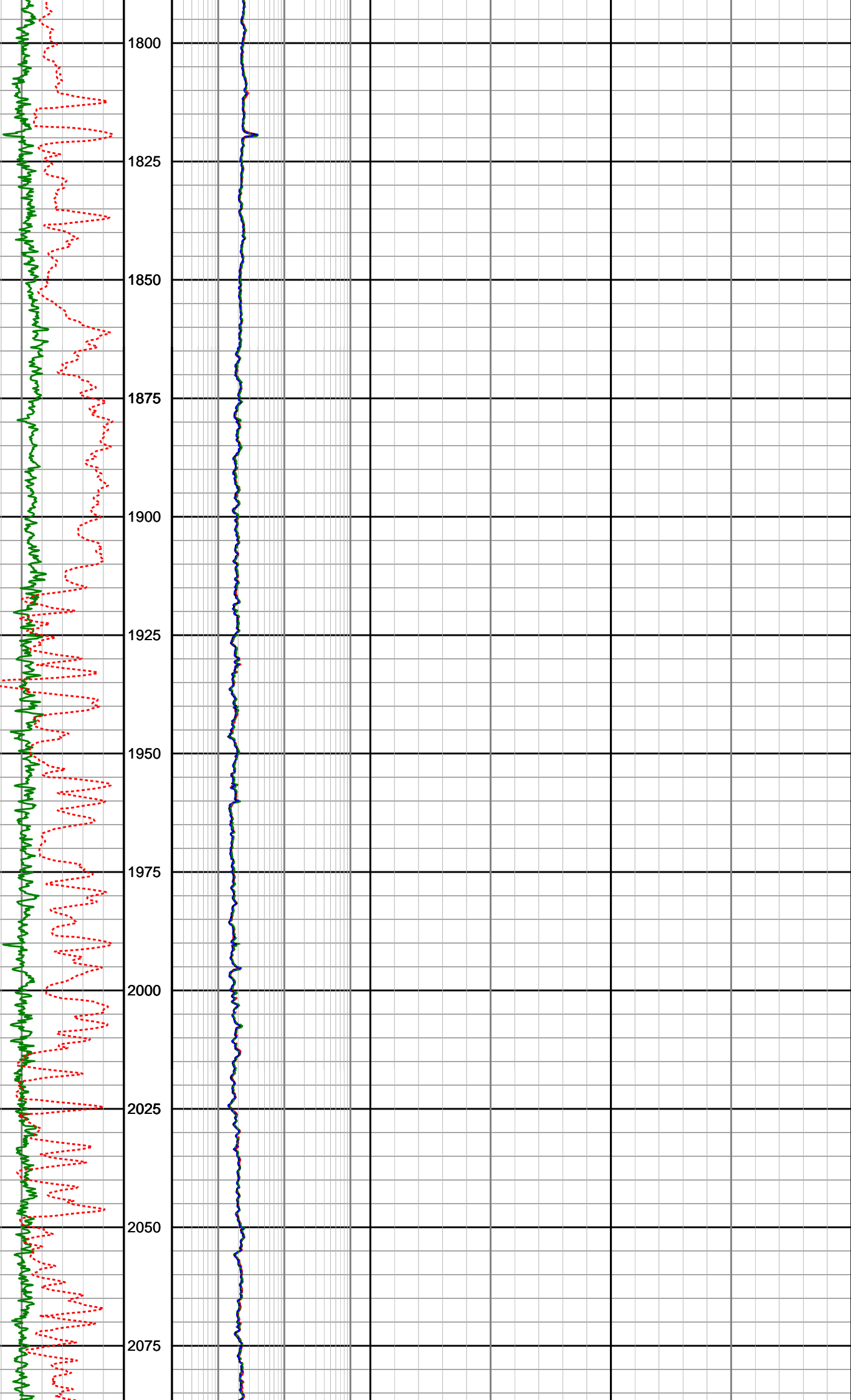
| | | | | | |
|---------------------|--------|-------------------|--------|---------------------|-------------------|
| | | Deep Phase Res | | | |
| | | 0.2 | (SEDP) | 200 | |
| | | ohmm | | | |
| Acoustic Caliper | | Medium Phase Res | | Standoff Correction | |
| 6 | (ACAL) | 0.2 | (SEMP) | 200 | -0.75 (SC02) 0.25 |
| | | ohmm | | g/cc | |
| Rate of Penetration | | Shallow Phase Res | | Bulk Density | |

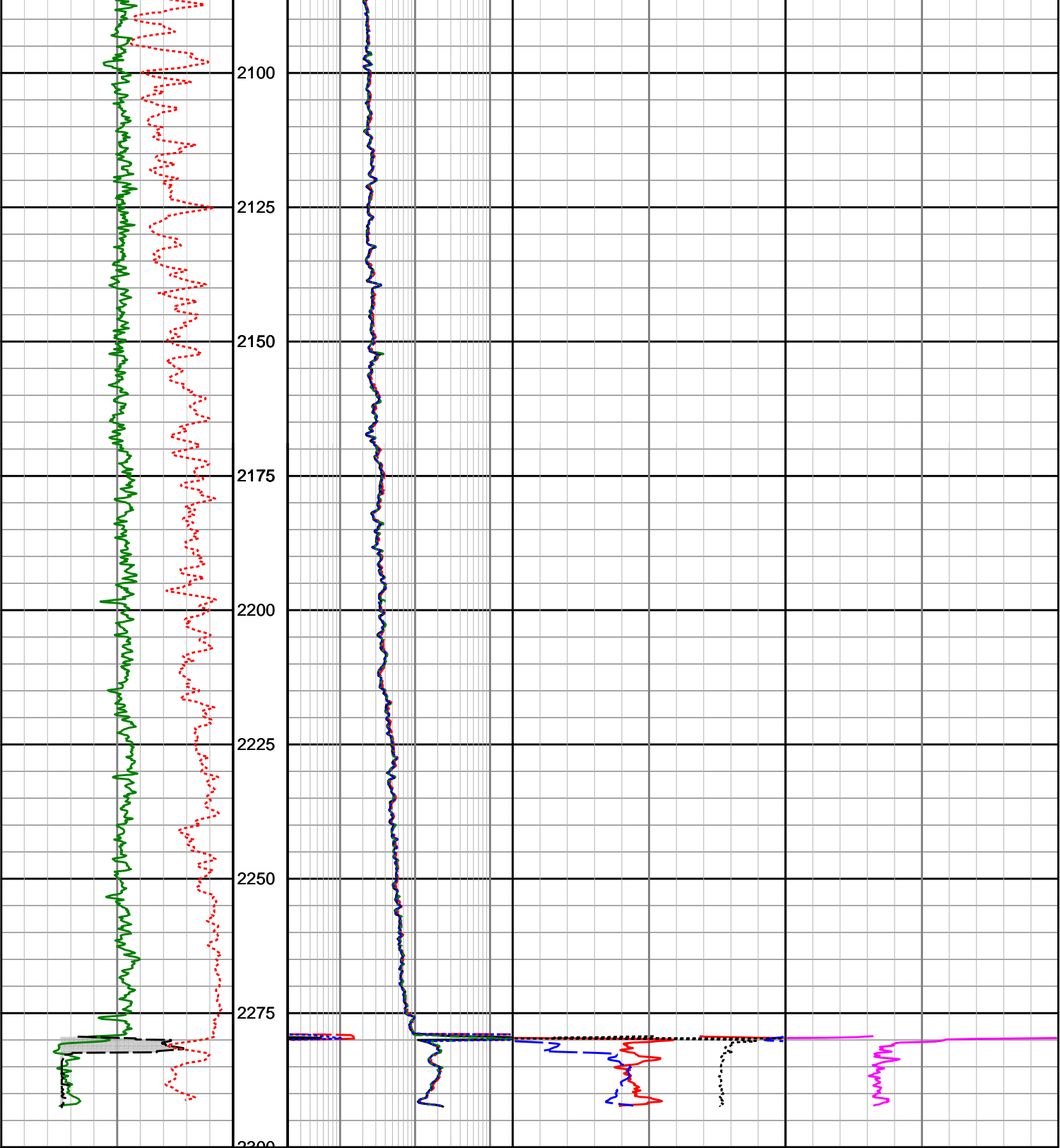












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|---|-------|---|--|--|
| <div><div>Gamma Ray</div><div>(SGRC)</div><div>0200</div></div> <div>api</div> | Depth | <div><div>X-Shallow Phase Res</div><div>(SEXP)</div><div>0.2200</div></div> <div>ohmm</div> | <div><div>Neutron Porosity</div><div>(TNPL)</div><div>0.45-0.15</div></div> <div>v/v</div> | <div><div>Photoelectric Effect</div><div>(SNP2)</div><div>010</div></div> <div>b/e</div> |
| <div><div>Rate of Penetration</div><div>(SROP)</div><div>1000</div></div> <div>m/hr</div> | | <div><div>Shallow Phase Res</div><div>(SESP)</div><div>0.2200</div></div> <div>ohmm</div> | <div><div>Bulk Density</div><div>(SBD2)</div><div>1.952.95</div></div> <div>g/cc</div> | |
| <div><div>Acoustic Caliper</div><div>(ACAL)</div><div>616</div></div> <div>inches</div> | | <div><div>Medium Phase Res</div><div>(SEMP)</div><div>0.2200</div></div> <div>ohmm</div> | <div><div>Standoff Correction</div><div>(SCO2)</div><div>-0.750.25</div></div> <div>g/cc</div> | |
| | | <div><div>Deep Phase Res</div><div>(SEDP)</div><div>0.2200</div></div> <div>ohmm</div> | | |
| | | | | |
| | | | | |



Sperry Drilling Services

DIRECTIONAL SURVEY REPORT

Woodside Energy Ltd

THA04

Thylacine

Victoria

Australia

AU-FE-000393066

RT-LAT=50.5m.

Final survey projected to TD.

All Surveys are SAG corrected.

Surveys to 1498.12mMD are SUCOP corrected.

Surveys from 1527.01mMD are Cazandra corrected.

| <i>Measured Depth (metres)</i> | <i>Inclination (degrees)</i> | <i>Direction (degrees)</i> | <i>Vertical Depth (metres)</i> | <i>Latitude (metres)</i> | <i>Departure (metres)</i> | <i>Vertical Section (metres)</i> | <i>Dogleg (deg/30m)</i> |
|--|----------------------------------|--------------------------------|--|------------------------------|-------------------------------|--|-----------------------------|
| 650.000 | 5.18 | 173.38 | 649.360 | 21.420 S | 2.120 E | 15.001 | TIE-IN |
| 688.390 | 6.30 | 210.93 | 687.570 | 24.950 S | 1.237 E | 16.509 | 3.00 |
| 717.360 | 10.31 | 208.79 | 716.230 | 28.587 S | 0.830 W | 17.158 | 4.16 |
| 746.300 | 14.72 | 197.80 | 744.480 | 34.361 S | 3.202 W | 18.899 | 5.18 |
| 775.250 | 18.30 | 195.23 | 772.232 | 42.251 S | 5.521 W | 22.000 | 3.79 |
| 804.220 | 20.86 | 194.83 | 799.525 | 51.627 S | 8.037 W | 25.873 | 2.65 |
| 833.180 | 24.98 | 191.59 | 826.193 | 62.607 S | 10.586 W | 30.718 | 4.46 |
| 862.140 | 28.78 | 189.26 | 852.020 | 75.482 S | 12.938 W | 36.899 | 4.08 |
| 891.060 | 32.15 | 190.32 | 876.944 | 89.928 S | 15.437 W | 43.942 | 3.54 |
| 920.010 | 34.55 | 190.51 | 901.125 | 105.580 S | 18.315 W | 51.441 | 2.49 |
| 948.960 | 33.85 | 189.07 | 925.070 | 121.614 S | 21.083 W | 59.263 | 1.11 |
| 977.870 | 33.51 | 188.44 | 949.127 | 137.459 S | 23.524 W | 67.224 | 0.51 |
| 1006.770 | 32.88 | 188.81 | 973.311 | 153.102 S | 25.896 W | 75.113 | 0.69 |
| 1035.710 | 31.56 | 189.35 | 997.794 | 168.339 S | 28.330 W | 82.700 | 1.40 |
| 1064.580 | 31.61 | 196.12 | 1022.395 | 183.066 S | 31.659 W | 89.270 | 3.68 |
| 1093.400 | 33.36 | 198.23 | 1046.705 | 197.850 S | 36.236 W | 94.899 | 2.17 |
| 1122.380 | 34.19 | 197.83 | 1070.794 | 213.170 S | 41.222 W | 100.542 | 0.89 |
| 1151.260 | 33.03 | 195.24 | 1094.847 | 228.490 S | 45.776 W | 106.523 | 1.92 |
| 1180.180 | 32.68 | 194.25 | 1119.141 | 243.662 S | 49.769 W | 112.850 | 0.66 |
| 1209.130 | 32.85 | 194.31 | 1143.485 | 258.846 S | 53.634 W | 119.285 | 0.18 |
| 1238.050 | 32.69 | 194.61 | 1167.803 | 274.003 S | 57.543 W | 125.669 | 0.24 |
| 1266.970 | 32.70 | 195.15 | 1192.140 | 289.101 S | 61.554 W | 131.936 | 0.30 |
| 1295.890 | 32.87 | 195.56 | 1216.454 | 304.202 S | 65.701 W | 138.098 | 0.29 |
| 1324.790 | 33.17 | 196.36 | 1240.686 | 319.343 S | 70.032 W | 144.142 | 0.55 |
| 1353.720 | 32.35 | 196.87 | 1265.014 | 334.344 S | 74.507 W | 149.985 | 0.90 |
| 1382.600 | 31.60 | 196.07 | 1289.513 | 349.009 S | 78.844 W | 155.728 | 0.89 |
| 1411.510 | 31.20 | 196.12 | 1314.189 | 363.481 S | 83.020 W | 161.476 | 0.42 |
| 1440.360 | 31.66 | 195.63 | 1338.806 | 377.951 S | 87.135 W | 167.271 | 0.55 |
| 1469.240 | 33.20 | 195.26 | 1363.181 | 392.879 S | 91.258 W | 173.345 | 1.61 |
| 1498.120 | 33.15 | 196.11 | 1387.354 | 408.093 S | 95.530 W | 179.480 | 0.49 |
| 1527.010 | 32.27 | 197.10 | 1411.662 | 423.054 S | 99.990 W | 185.311 | 1.07 |
| 1555.950 | 32.13 | 197.42 | 1436.151 | 437.781 S | 104.565 W | 190.905 | 0.23 |
| 1584.900 | 32.14 | 197.54 | 1460.666 | 452.469 S | 109.191 W | 196.436 | 0.07 |
| 1613.830 | 31.59 | 196.05 | 1485.236 | 467.088 S | 113.605 W | 202.090 | 1.00 |
| 1642.730 | 31.64 | 196.36 | 1509.847 | 481.636 S | 117.833 W | 207.845 | 0.18 |
| 1671.670 | 31.29 | 196.58 | 1534.532 | 496.122 S | 122.116 W | 213.518 | 0.38 |
| 1700.540 | 31.70 | 196.96 | 1559.149 | 510.563 S | 126.468 W | 219.109 | 0.47 |
| 1729.450 | 31.83 | 196.87 | 1583.728 | 525.124 S | 130.896 W | 224.716 | 0.14 |
| 1758.400 | 32.33 | 194.83 | 1608.259 | 539.913 S | 135.093 W | 230.645 | 1.24 |
| 1787.330 | 31.96 | 195.03 | 1632.754 | 554.786 S | 139.058 W | 236.808 | 0.40 |
| 1816.310 | 32.21 | 195.30 | 1657.307 | 569.644 S | 143.085 W | 242.912 | 0.30 |
| 1845.270 | 32.04 | 193.45 | 1681.834 | 584.560 S | 146.909 W | 249.213 | 1.03 |
| 1874.190 | 32.87 | 193.78 | 1706.237 | 599.643 S | 150.563 W | 255.750 | 0.88 |
| 1903.180 | 31.63 | 193.99 | 1730.754 | 614.660 S | 154.274 W | 262.201 | 1.29 |
| 1932.120 | 31.27 | 194.24 | 1755.442 | 629.304 S | 157.956 W | 268.443 | 0.40 |
| 1961.070 | 31.95 | 194.74 | 1780.097 | 643.995 S | 161.754 W | 274.623 | 0.76 |
| 1989.910 | 32.22 | 189.82 | 1804.537 | 658.953 S | 165.007 W | 281.396 | 2.73 |
| 2018.810 | 32.07 | 182.90 | 1829.015 | 674.212 S | 166.710 W | 289.569 | 3.82 |
| 2047.730 | 32.63 | 178.55 | 1853.449 | 689.676 S | 166.901 W | 299.053 | 2.48 |
| 2076.660 | 33.52 | 174.02 | 1877.695 | 705.421 S | 165.871 W | 309.666 | 2.72 |
| 2105.610 | 34.25 | 170.36 | 1901.730 | 721.404 S | 163.674 W | 321.342 | 2.25 |
| 2134.560 | 35.30 | 162.86 | 1925.521 | 737.437 S | 159.843 W | 334.326 | 4.56 |
| 2163.440 | 36.78 | 153.99 | 1948.889 | 753.192 S | 153.588 W | 349.034 | 5.63 |
| 2192.410 | 37.04 | 147.72 | 1972.061 | 768.369 S | 145.122 W | 365.110 | 3.91 |
| 2221.340 | 37.25 | 147.33 | 1995.121 | 783.106 S | 135.742 W | 381.628 | 0.33 |
| 2250.240 | 39.85 | 148.53 | 2017.721 | 798.369 S | 126.185 W | 398.612 | 2.81 |

| | | | | | | | |
|----------|--------|--------|----------|------------|------------|----------|------|
| 2279.240 | 42.08 | 144.94 | 2039.621 | 814.252 S | 115.750 W | 416.669 | 3.35 |
| 2308.150 | 43.98 | 140.53 | 2060.758 | 829.935 S | 103.800 W | 435.786 | 3.69 |
| 2337.080 | 46.34 | 136.35 | 2081.161 | 845.267 S | 90.187 W | 455.986 | 3.93 |
| 2366.050 | 48.66 | 134.83 | 2100.732 | 860.519 S | 75.238 W | 477.181 | 2.67 |
| 2395.160 | 50.48 | 132.94 | 2119.610 | 875.874 S | 59.267 W | 499.241 | 2.39 |
| 2424.050 | 53.68 | 129.08 | 2137.367 | 890.810 S | 42.066 W | 522.000 | 4.59 |
| 2452.990 | 55.25 | 123.38 | 2154.195 | 904.709 S | 23.076 W | 545.514 | 5.08 |
| 2481.900 | 55.15 | 121.40 | 2170.696 | 917.425 S | 3.032 W | 569.115 | 1.69 |
| 2509.330 | 56.34 | 122.19 | 2186.135 | 929.371 S | 16.237 E | 591.630 | 1.48 |
| 2538.240 | 57.74 | 122.37 | 2201.864 | 942.326 S | 36.744 E | 615.742 | 1.46 |
| 2567.190 | 61.95 | 120.21 | 2216.404 | 955.314 S | 58.134 E | 640.566 | 4.77 |
| 2596.080 | 65.06 | 117.03 | 2229.294 | 967.687 S | 80.828 E | 666.027 | 4.38 |
| 2625.010 | 65.29 | 116.41 | 2241.440 | 979.492 S | 104.281 E | 691.727 | 0.63 |
| 2653.940 | 69.24 | 116.73 | 2252.618 | 991.426 S | 128.140 E | 717.825 | 4.11 |
| 2682.840 | 71.58 | 113.35 | 2262.310 | 1002.941 S | 152.804 E | 744.293 | 4.10 |
| 2712.930 | 72.42 | 112.26 | 2271.609 | 1014.033 S | 179.184 E | 771.839 | 1.33 |
| 2740.730 | 74.87 | 112.04 | 2279.436 | 1024.089 S | 203.889 E | 797.429 | 2.65 |
| 2760.530 | 76.93 | 111.88 | 2284.259 | 1031.270 S | 221.698 E | 815.834 | 3.13 |
| 2789.540 | 81.86 | 112.24 | 2289.597 | 1041.976 S | 248.117 E | 843.170 | 5.11 |
| 2818.500 | 87.26 | 113.06 | 2292.341 | 1053.075 S | 274.712 E | 870.889 | 5.66 |
| 2847.450 | 91.70 | 113.17 | 2292.604 | 1064.437 S | 301.330 E | 898.790 | 4.60 |
| 2876.380 | 97.39 | 113.51 | 2290.312 | 1075.858 S | 327.799 E | 926.610 | 5.91 |
| 2905.330 | 101.06 | 113.86 | 2285.672 | 1087.335 S | 353.963 E | 954.227 | 3.82 |
| 2934.260 | 102.06 | 114.41 | 2279.875 | 1098.923 S | 379.828 E | 981.679 | 1.18 |
| 2963.190 | 102.62 | 114.71 | 2273.692 | 1110.670 S | 405.533 E | 1009.105 | 0.66 |
| 2992.130 | 102.45 | 112.78 | 2267.410 | 1122.045 S | 431.390 E | 1036.418 | 1.96 |
| 3021.100 | 100.84 | 108.83 | 2261.561 | 1132.118 S | 457.908 E | 1063.437 | 4.34 |
| 3050.040 | 100.25 | 110.72 | 2256.264 | 1141.743 S | 484.680 E | 1090.377 | 2.02 |
| 3078.940 | 100.82 | 109.65 | 2250.980 | 1151.547 S | 511.347 E | 1117.345 | 1.24 |
| 3107.890 | 100.67 | 108.82 | 2245.582 | 1160.917 S | 538.201 E | 1144.190 | 0.86 |
| 3136.860 | 98.37 | 105.95 | 2240.790 | 1169.450 S | 565.463 E | 1170.831 | 3.78 |
| 3165.840 | 96.81 | 104.34 | 2236.962 | 1176.954 S | 593.190 E | 1197.196 | 2.31 |
| 3195.210 | 95.81 | 101.40 | 2233.734 | 1183.455 S | 621.645 E | 1223.505 | 3.15 |
| 3253.070 | 96.12 | 101.34 | 2227.721 | 1194.800 S | 678.063 E | 1274.707 | 0.16 |
| 3282.020 | 95.38 | 101.48 | 2224.820 | 1200.498 S | 706.297 E | 1300.344 | 0.78 |
| 3310.990 | 94.02 | 101.74 | 2222.447 | 1206.309 S | 734.579 E | 1326.087 | 1.43 |
| 3339.940 | 92.66 | 101.22 | 2220.760 | 1212.061 S | 762.900 E | 1351.826 | 1.51 |
| 3368.840 | 92.41 | 99.37 | 2219.482 | 1217.220 S | 791.306 E | 1377.261 | 1.94 |
| 3397.770 | 91.42 | 97.62 | 2218.515 | 1221.491 S | 819.901 E | 1402.291 | 2.08 |
| 3426.720 | 92.60 | 99.37 | 2217.499 | 1225.765 S | 848.514 E | 1427.337 | 2.19 |
| 3455.570 | 92.29 | 98.64 | 2216.269 | 1230.276 S | 876.983 E | 1452.417 | 0.82 |
| 3484.490 | 92.29 | 97.77 | 2215.113 | 1234.400 S | 905.583 E | 1477.360 | 0.90 |
| 3513.420 | 91.61 | 97.05 | 2214.129 | 1238.129 S | 934.255 E | 1502.112 | 1.03 |
| 3542.380 | 90.19 | 96.08 | 2213.674 | 1241.440 S | 963.020 E | 1526.677 | 1.78 |
| 3571.300 | 88.52 | 94.45 | 2213.999 | 1244.093 S | 991.815 E | 1550.855 | 2.42 |
| 3600.240 | 86.18 | 94.28 | 2215.337 | 1246.293 S | 1020.638 E | 1574.773 | 2.43 |
| 3629.180 | 85.43 | 94.07 | 2217.454 | 1248.395 S | 1049.423 E | 1598.601 | 0.81 |
| 3658.150 | 82.83 | 94.52 | 2220.417 | 1250.552 S | 1078.158 E | 1622.423 | 2.73 |
| 3687.120 | 79.76 | 93.37 | 2224.801 | 1252.523 S | 1106.722 E | 1645.997 | 3.39 |
| 3715.070 | 80.65 | 95.43 | 2229.556 | 1254.637 S | 1134.182 E | 1668.794 | 2.38 |
| 3744.950 | 81.33 | 96.49 | 2234.236 | 1257.702 S | 1163.533 E | 1693.664 | 1.25 |
| 3773.830 | 83.32 | 95.40 | 2238.093 | 1260.665 S | 1191.999 E | 1717.778 | 2.35 |
| 3802.710 | 85.81 | 97.87 | 2240.828 | 1263.988 S | 1220.552 E | 1742.185 | 3.64 |
| 3831.660 | 85.74 | 99.00 | 2242.961 | 1268.223 S | 1249.110 E | 1767.164 | 1.17 |
| 3860.590 | 86.73 | 99.67 | 2244.861 | 1272.905 S | 1277.595 E | 1792.363 | 1.24 |
| 3889.570 | 84.94 | 99.10 | 2246.965 | 1277.618 S | 1306.110 E | 1817.606 | 1.94 |
| 3918.450 | 84.50 | 98.36 | 2249.623 | 1281.983 S | 1334.534 E | 1842.561 | 0.89 |
| 3947.390 | 85.99 | 98.56 | 2252.022 | 1286.226 S | 1363.060 E | 1867.519 | 1.56 |
| 3976.360 | 88.03 | 99.24 | 2253.533 | 1290.702 S | 1391.640 E | 1892.665 | 2.23 |
| 3987.000 | 88.80 | 99.50 | 2253.827 | 1292.434 S | 1402.134 E | 1901.953 | 2.29 |

CALCULATION BASED ON MINIMUM CURVATURE METHOD

**SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT**

**VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 128.53 DEGREES (GRID)
A TOTAL CORRECTION OF 12.29 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 3987.000 METRES
IS 1906.926 METRES ALONG 132.67 DEGREES (GRID)**

MWD RUN 100 - BHA

MWD RUN 100 - MWD









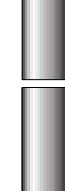







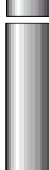



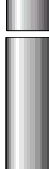
| | Component Length (m) | | Sensor Measure Point Distance To Bit (m) |
|---------------------|----------------------|-----------------|--|
| Heavy Weight | 48.310 | Positive Pulser | |
| Jar | 9.700 | TM | |
| Heavy Weight | 144.730 | HCIM Insert | |
| X-Over Sub | 1.190 | PWD Insert | 16.060 |
| Spiral Drill Collar | 26.750 | EWR-P4 Insert | 13.560 |
| Non-Magnetic | 8.480 | DDS Insert | |
| Float Sub | 1.080 | DGR Insert | 11.210 |
| MWD | 14.44 | DM Sonde | 8.700 |
| Flex | 2.770 | AGR Insert | |
| MWD | 6.620 | | |
| PDC | .620 | | |

MWD RUN 100 - BHA

MWD RUN 100 - MWD





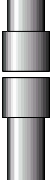





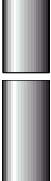
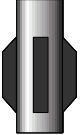










MWD RUN 200 - BHA

MWD RUN 200 - MWD

| | | Component Length (m) | | | Sensor Measure Point Distance To Bit (m) |
|--------------|---|----------------------|-----------------|---|--|
| Heavy Weight |  | 19.200 | TM |  | |
| | | | Positive Pulsar | | |
| Jar |  | 9.860 | PWD Insert |  | 27.290 |
| | | | | | |
| | | | | | |
| Heavy Weight |  | 57.810 | ACAL Insert |  | 23.530 |
| | | | | | |
| X-Over Sub |  | 1.300 | CTN Insert |  | 24.590 |
| | | | | | |
| Non-Magnetic |  | 18.810 | ALD Insert |  | 20.520 |
| | | | HCIM Insert |  | |
| Float Sub |  | .800 | EWR-P4 Insert |  | 12.890 |
| | | | | | |
| MWD |  | 22.01 | DDS Insert |  | 0 |
| | | | | | |
| Flex |  | 2.800 | DGR Insert |  | 10.560 |
| | | | | | |
| Geo-Pilot |  | 6.140 | DM Sonde |  | 8.020 |
| | | | | | |
| PDC |  | .420 | AGR Insert |  | |

MWD RUN 300 - BHA

MWD RUN 300 - MWD

| | | Component Length (m) | | | Sensor Measure Point Distance To Bit (m) |
|--------------|---|----------------------|-----------------|---|--|
| Heavy Weight |  | 19.190 | ACAL Insert |  | |
| Jar |  | 9.860 | TM |  | |
| Heavy Weight |  | 57.810 | Positive Pulser |  | |
| X-Over Sub |  | 1.300 | PWD Insert |  | 26.880 |
| Non-Magnetic |  | 18.810 | CNP Insert |  | 24.290 |
| Float Sub |  | .800 | ALD Insert |  | 21.430 |
| MWD |  | 22.47 | HCIM Insert |  | |
| Flex |  | 2.810 | EWR-P4 Insert |  | 13.850 |
| Geo-Pilot |  | 7.070 | DDS Insert |  | 0 |
| PDC |  | .420 | DGR Insert |  | 11.500 |
| | | | DM Sonde |  | 8.950 |
| | | | AGR Insert |  | |