

ROP Rate of Penetration
DDS Drilling Dynamics
PWD Pressure While Drilling

PROPRIETARY

1 : 1200

26" Hole Opening Run

| | | | |
|--|--------------------------------------|---|-----------------------------|
| Country : USA | | | |
| Field : Posey 6912 | | | |
| Location : Lat: 71° 10' 24.06" North Long: 163° 28' 18.67" West | | | |
| Well : OCS-Y-2321 BJ001 ST00BP00 | | | |
| Company : Shell Gulf of Mexico Inc. | | | |
| Rig : Polar Pioneer | | | |
| LOCATION | | | |
| Latitude : 71° 10' 24.06" North | Longitude : 163° 28' 18.67" West | Other Services ADR, DGR, EWR ALD, CTN, XBAT MRL-WD | |
| Final UTM Easting = 555,034.550 m | Final UTM Northing = 7,897,425.308 m | | |
| API Number : 55-352-00004-00 | | | |
| Company : Shell Gulf of Mexico Inc. | Rig : Polar Pioneer | | |
| Well : OCS-Y-2321 BJ001 ST00BP00 | Field : Posey 6912 | | |
| Country : USA | | | |
| Permanent Datum : Mean Sea Level Elevation : 0.00 ft | | Elev. : N/A | |
| Log Measured From : Drill Floor 76.00 ft Above Permanent Datum | | DF 76.00 ft | |
| Drilling Measured From : Drill Floor | | GL N/A | |
| | | WD 146.00 ft | |
| MID LOG | | | |
| Depth Logged : 425.00 ft To 1,512.00 ft | | Unit No. : 1 | |
| Date Logged : 30-Jul-15 To 24-Aug-15 | | Job No. : AK-XX-0901604700 | |
| Total Depth MD : 1,512.00 ft TVD : 1,511.97 ft | | Plot Type : Final | |
| Spud Date : 30-Jul-15 | | Plot Date : 31-Oct-15 | |
| Run No. | Borehole Record (MD) | Size | Casing Record (MD) |
| 4B | From 26.000 in To 425.00 ft | From 36.000 in To 746.00 lbpf | From 257.00 ft To 375.00 ft |

WELL INFORMATION

| | | | | |
|----------------------------------|-------------------|--|--|--|
| MWD Run Number | 401 | | | |
| Date run completed | 20-Aug-15 | | | |
| Rig Bit Number | 4B | | | |
| Bit Size (in) | 26.000 | | | |
| Tool Nominal OD (in) | 8.000 | | | |
| Log Start Depth (MD, ft) | 425.00 | | | |
| Log End Depth (MD, ft) | 1,512.00 | | | |
| Drill or Wipe | Drill | | | |
| Drill/Wipe Start Date and Time | 19-Aug-15 00:27 | | | |
| Drill/Wipe End Date and Time | 20-Aug-15 06:22 | | | |
| Min Inc (deg) @ Depth (MD, ft) | 0.00 @ 957.99 | | | |
| Max Inc (deg) @ Depth (MD, ft) | 0.99 @ 495.25 | | | |
| Bit TFA(in2) / Bit Type | 1.12 / Tricone | | | |
| Flow Rate (gpm) | 1,100.00 | | | |
| Max AV (fpm) / CV (fpm) @ MWD | 51.0 / 636.0 | | | |
| Fluid Type | Sea Water | | | |
| Density (ppg) / Viscosity (spqt) | 8.55 / 27.00 | | | |
| Filtrate CL (ppm) | 35,000.00 | | | |
| pH / Fluid Loss (mptm) | 8.50 / 0 | | | |
| PV (cP) / YP (lhf2) | 17 / 31.00 | | | |
| % Solids / % Sand | .01 / .01 | | | |
| % Oil / Oil:Water Ratio | 0 / 0:100 | | | |
| Rm @ Measured Temp (degF) | N/A @ N/A | | | |
| Rmf @ Measured Temp (degF) | N/A @ N/A | | | |
| Rmc @ Measured Temp (degF) | N/A @ N/A | | | |
| Max Tool Temp (degF) / Source | 46.10 / DDSr-HCIM | | | |

| | | | | | |
|---------------------------|-------------|--|--|--|--|
| Rm @ Max Tool Temp (degF) | N/A @ 46.10 | | | | |
| Lead MWD Engineer | Nick Weeks | | | | |
| Customer Representative | Doug Sloan | | | | |

SENSOR INFORMATION

Downhole Processor Information

| | | | | | |
|---------------------------|-----------------|--|--|--|--|
| Tool Type | HCIM | | | | |
| Software Version | 88.58 | | | | |
| Sub Serial Number | 12562642 | | | | |
| Insert Serial Number | 11753209 | | | | |
| Date and Time Initialized | 18-Aug-15 20:47 | | | | |
| Date and Time Read | 20-Aug-15 15:15 | | | | |
| ECMB SW Version | N/A | | | | |

Directional Sensor Information

| | | | | | |
|------------------------|----------|--|--|--|--|
| Tool Type | PCDC | | | | |
| Distance From Bit (ft) | 123.78 | | | | |
| Software Version | 6.21 | | | | |
| Sub Serial Number | 12185782 | | | | |
| Sonde Serial Number | 11477951 | | | | |
| Sensor ID Number | N/A | | | | |
| Toolface Offset (deg) | 0.00 | | | | |

Pressure Sensor Information

| | | | | | |
|------------------------------|----------|--|--|--|--|
| Tool Type | PWD | | | | |
| Distance From Bit (ft) | 133.70 | | | | |
| Recorded Sample Period (sec) | 2 | | | | |
| Software Version | 4.14 | | | | |
| Collar Serial Number | 11905281 | | | | |
| Insert Serial Number | 11996744 | | | | |

DDSr-HCIM Sensor Information

| | | | | | |
|------------------------------|-----------|--|--|--|--|
| Tool Type | DDSr-HCIM | | | | |
| Distance From Bit (ft) | 140.14 | | | | |
| Recorded Sample Period (sec) | 16 | | | | |
| Software Version | 20.88 | | | | |
| Sub Serial Number | 12562642 | | | | |
| Insert Serial Number | 11463449 | | | | |
| Sensor ID Number | 7194 | | | | |

REMARKS

1. ALL DEPTHS ARE MEASURED DEPTHS (MD), UNLESS OTHERWISE NOTED. THESE DEPTHS ARE BIT DEPTHS AND ARE CALLIBRATED TO THE DRILLERS PIPE TALLY. NO DEPTH CORRECTIONS HAVE BEEN MADE FOR PIPE STRETCH OR COMPRESSION.
2. ALL VERTICAL DEPTHS ARE TRUE VERTICAL DEPTHS (TVD), UNLESS OTHERWISE NOTED. ONLY INVERTED / REVERTED SECTIONS GREATER THAN 30' TVD ARE PRESENTED
3. ALL DATA PRESENTED IS RECORDED DATA UNLESS OTHERWISE STATED.
4. LWD RUN 1 WAS COMPRISED OF DIRECTIONAL, DUAL GAMMA RAY (DGR) UTILIZING GEIGER-MUELLER TUBE TYPE DETECTORS, AZIMUTHAL DEEP ELECTROMAGNETIC WAVE RESISTIVITY (ADR), PRESSURE WHILE DRILLING (PWD) DRILLSTRING DYNAMICS SENSOR (DDSr), AZIMUTHAL LITHODENSITY (ALD), COMPENSATED THERMAL NEUTRON (CTN), MAGNETIC RESONANCE WHILE DRILLING (MRIL-WD), AZIMUTHAL BIMODAL ACOUSTIC TOOL (XBAT), AND THE AZIMUTHAL ACOUSTIC CALIPER TOOL (XCAL).

5. RUN 200 WAS A 36" HOLE OPENING RUN, NO MWD TOOLS WERE PRESENT THEREFOR IT IS NOT PRESENTED.
6. RUN 300 WAS A 42" HOLE OPENING RUN, NO MWD TOOLS WERE PRESENT THEREFOR IT IS NOT PRESENTED.
7. RUN 400 WAS A CLEANOUT RUN TO DRILL OUT THE SHOE TRACK AND 30' OF NEW FORMATION, NO MWD TOOLS WERE PRESENT THEREFOR IT IS NOT PRESENTED.
8. RUN 401 WAS A 26" HOLE OPENING RUN UTILIZING DIRECTIONAL, DRILL STRING DYNAMICS SENSOR AND PRESSURE WHILE DRILLING. NO LOGGING SENSORS WERE PRESENT.
9. MWD RUN 500 WAS A 17.5" DRILLING RUN UTILIZING DIRECTIONAL, DRILL STRING DYNAMICS SENSOR AND PRESSURE WHILE DRILLING. NO LOGGING SENSORS WERE PRESENT.
10. LWD RUN 6 WAS COMPRISED OF DIRECTIONAL, DUAL GAMMA RAY (DGR) UTILIZING GEIGER-MUELLER TUBE TYPE DETECTORS, ELECTROMAGNETIC WAVE RESISTIVITY PHASE 4 (EWR-P4), PRESSURE WHILE DRILLING (PWD) DRILLSTRING DYNAMICS SENSOR (DDSr), AZIMUTHAL LITHODENSITY (ALD), COMPENSATED THERMAL NEUTRON (CTN), AZIMUTHAL BIMODAL ACOUSTIC TOOL (XBAT), AND THE AZIMUTHAL ACOUSTIC CALIPER TOOL (XCAL).
11. LWD RUN 7 WAS COMPRISED OF DIRECTIONAL, DUAL GAMMA RAY (DGR) UTILIZING GEIGER-MUELLER TUBE TYPE DETECTORS, AZIMUTHAL DEEP ELECTROMAGNETIC WAVE RESISTIVITY (ADR), PRESSURE WHILE DRILLING (PWD) DRILLSTRING DYNAMICS SENSOR (DDSr), AZIMUTHAL LITHODENSITY (ALD), COMPENSATED THERMAL NEUTRON (CTN), MAGNETIC RESONANCE WHILE DRILLING (MRIL-WD), AZIMUTHAL BIMODAL ACOUSTIC TOOL (XBAT), AND THE AZIMUTHAL ACOUSTIC CALIPER TOOL (XCAL).
12. OVER THE COURSE OF THE 12.25" HOLE SECTION THERE ARE SEVERAL INSTANCES WHERE THE BOREHOLE RUGOSITY HAS CREATED "SPIKES" IN THE RESISTIVITY DATA. THIS IS DUE TO ONE RECIEVER READING THE HIGH SALINITY BOREHOLE FLUID (WASHOUT) AND THE OTHER READING THE FORMATION. THERE ARE ALSO AREAS ACROSS THE LOGGED INTERVAL THAT SHOW AN UNDERGAUGE HOLE.
13. RUNS 1- 7 REPRESENT THE OCS-Y-2321 BJ001 ST00BP00 WELL WITH AN API# OF 55-352-00004-00. THIS WELL REACHED A TOTAL DEPTH OF 6,800'MD / 6,795'TVD

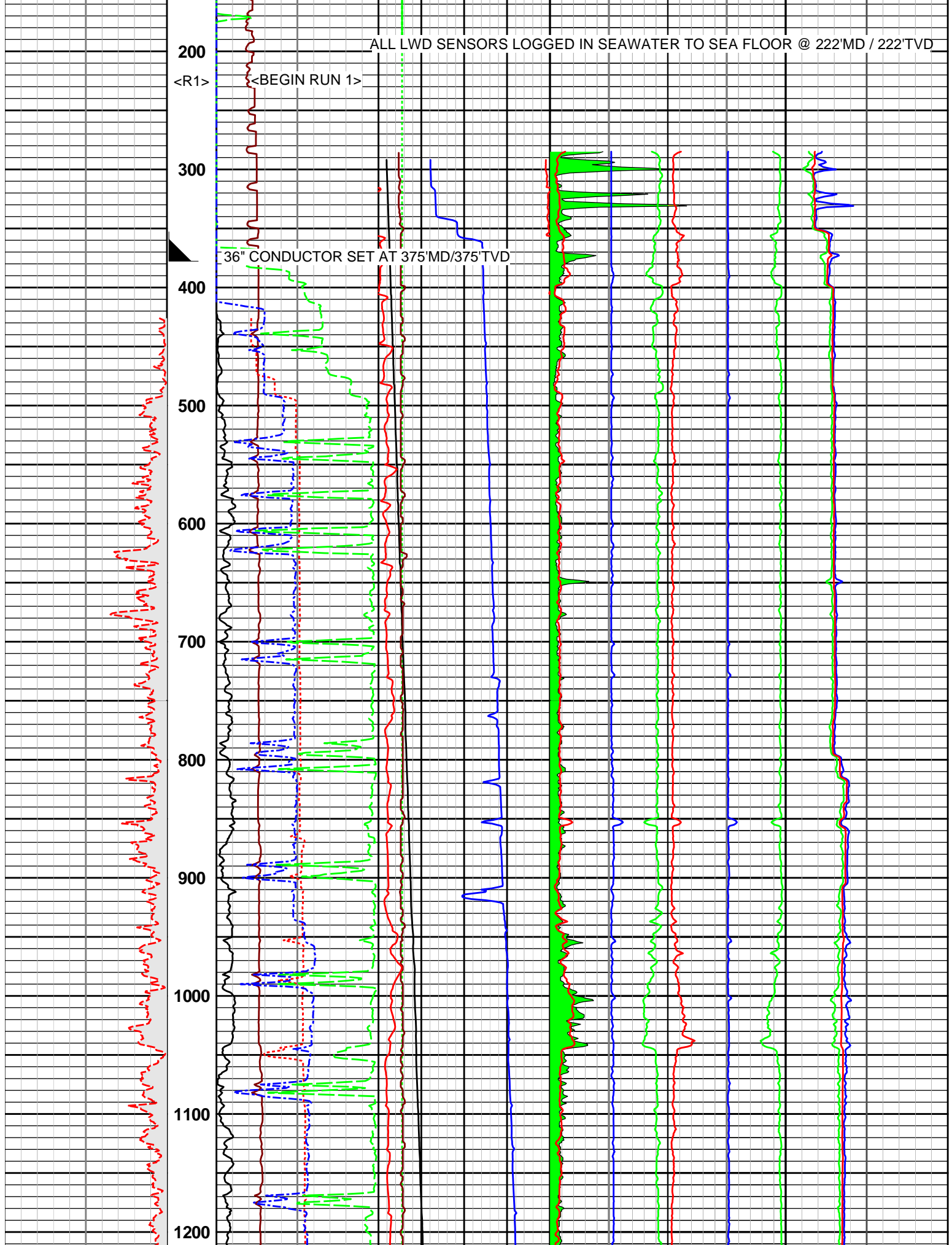
WARRANTY

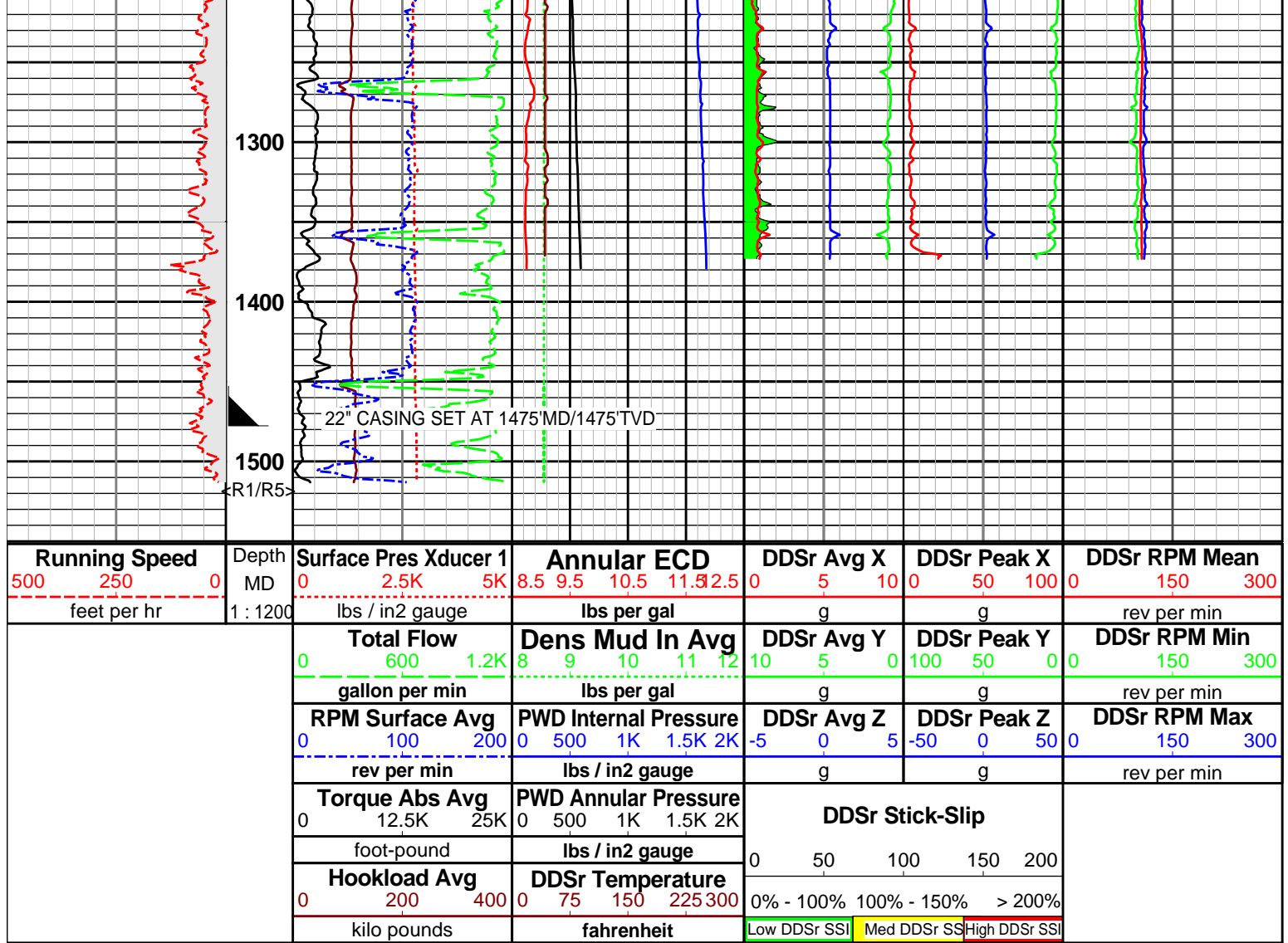
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| | | | | | | | | | |
|----------------------|-------|------------------------------|------------------------------|------------------------------|--------------------|----------------------|--|--|--|
| | | Hookload Avg | DDSr Temperature | DDSr Stick-Slip | | | | | |
| | | 0 200 400 | 0 75 150 225 300 | | | | | | |
| | | kilo pounds | fahrenheit | | | | | | |
| | | Torque Abs Avg | PWD Annular Pressure | 0% - 100% 100% - 150% > 200% | | | | | |
| | | 0 12.5K 25K | 0 500 1K 1.5K 2K | | | | | | |
| | | foot-pound | lbs / in ² gauge | Low DDSr SSI | Med DDSr SS | High DDSr SSI | | | |
| | | RPM Surface Avg | PWD Internal Pressure | DDSr Avg Z | DDSr Peak Z | DDSr RPM Max | | | |
| | | 0 100 200 | 0 500 1K 1.5K 2K | -5 0 5 | -50 0 50 | 0 150 300 | | | |
| | | rev per min | lbs / in ² gauge | g | g | rev per min | | | |
| | | Total Flow | Dens Mud In Avg | DDSr Avg Y | DDSr Peak Y | DDSr RPM Min | | | |
| | | 0 600 1.2K | 8 9 10 11 12 | 10 5 0 | 100 50 0 | 0 150 300 | | | |
| | | gallon per min | lbs per gal | g | g | rev per min | | | |
| Running Speed | Depth | Surface Pres Xducer 1 | Annular ECD | DDSr Avg X | DDSr Peak X | DDSr RPM Mean | | | |

500 250 0 MD 0 2.5K 5K 8.5 9.5 10.5 11.5 12.5 0 5 10 0 50 100 0 150 300

feet per hr lbs / in2 gauge lbs per gal g g rev per min





HALLIBURTON

DIRECTIONAL SURVEY REPORT

Shell Gulf of Mexico Inc.
 OCS-Y-2321 BJ001 ST00BP00
 Posey 6912
 Alaska
 USA
 AK-XX-0901604700
 Final Survey is projected to well TD

| Measured Depth (feet) | Inclination (degrees) | Direction (degrees) | Vertical Depth (feet) | Latitude (feet) | Departure (feet) | Vertical Section (feet) | Dogleg (deg/100ft) |
|-----------------------|-----------------------|---------------------|-----------------------|-----------------|------------------|-------------------------|--------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 N | 0.00 E | 0.00 | TIE-IN |
| 220.00 | 0.00 | 0.00 | 220.00 | 0.00 N | 0.00 E | 0.00 | 0.00 |
| 320.88 | 0.51 | 129.60 | 320.88 | 0.29 S | 0.35 E | -0.29 | 0.50 |
| 406.77 | 0.31 | 89.93 | 406.76 | 0.53 S | 0.88 E | -0.53 | 0.39 |
| 495.25 | 0.99 | 122.22 | 495.24 | 0.93 S | 1.76 E | -0.93 | 0.84 |
| 590.43 | 0.31 | 82.72 | 590.41 | 1.34 S | 2.71 E | -1.34 | 0.81 |
| 684.05 | 0.64 | 327.24 | 684.03 | 0.87 S | 2.68 E | -0.87 | 0.88 |
| 866.10 | 0.28 | 101.20 | 866.08 | 0.09 S | 2.55 E | -0.09 | 0.47 |
| 957.99 | 0.00 | 269.46 | 957.97 | 0.13 S | 2.77 E | -0.13 | 0.30 |
| 1051.65 | 0.14 | 176.72 | 1051.63 | 0.24 S | 2.78 E | -0.24 | 0.15 |
| 1144.54 | 0.26 | 120.65 | 1144.52 | 0.46 S | 2.97 E | -0.46 | 0.23 |
| 1235.66 | 0.41 | 134.11 | 1235.63 | 0.80 S | 3.38 E | -0.80 | 0.19 |
| 1328.60 | 0.51 | 59.75 | 1328.58 | 0.83 S | 3.98 E | -0.83 | 0.61 |
| 1378.50 | 0.25 | 111.62 | 1378.48 | 0.76 S | 4.27 E | -0.76 | 0.81 |
| 1540.18 | 0.12 | 50.83 | 1540.15 | 0.78 S | 4.74 E | -0.78 | 0.14 |

| | | | | | | | |
|---------|------|-------|---------|----------|----------|--------|------|
| 1723.74 | 0.39 | 34.99 | 1723.71 | 0.14 S | 5.26 E | -0.14 | 0.15 |
| 1818.58 | 0.58 | 50.01 | 1818.55 | 0.43 N | 5.81 E | 0.43 | 0.24 |
| 2003.18 | 1.06 | 39.81 | 2003.12 | 2.35 N | 7.62 E | 2.35 | 0.27 |
| 2095.93 | 0.87 | 35.51 | 2095.87 | 3.57 N | 8.57 E | 3.57 | 0.22 |
| 2186.15 | 0.69 | 72.12 | 2186.07 | 4.30 N | 9.49 E | 4.30 | 0.57 |
| 2373.34 | 0.75 | 76.36 | 2373.25 | 4.93 N | 11.76 E | 4.93 | 0.04 |
| 2463.93 | 0.78 | 75.65 | 2463.83 | 5.23 N | 12.93 E | 5.23 | 0.03 |
| 2555.30 | 0.79 | 70.25 | 2555.19 | 5.59 N | 14.13 E | 5.59 | 0.08 |
| 2646.22 | 0.79 | 76.51 | 2646.11 | 5.95 N | 15.33 E | 5.95 | 0.10 |
| 2743.03 | 0.70 | 74.08 | 2742.91 | 6.27 N | 16.55 E | 6.27 | 0.10 |
| 2837.42 | 0.74 | 67.59 | 2837.29 | 6.66 N | 17.68 E | 6.66 | 0.10 |
| 2875.38 | 0.64 | 69.95 | 2875.25 | 6.83 N | 18.10 E | 6.83 | 0.27 |
| 2978.31 | 0.74 | 64.69 | 2978.17 | 7.31 N | 19.25 E | 7.31 | 0.11 |
| 3074.55 | 0.58 | 52.33 | 3074.40 | 7.88 N | 20.20 E | 7.88 | 0.22 |
| 3169.04 | 0.67 | 47.05 | 3168.89 | 8.55 N | 20.99 E | 8.55 | 0.11 |
| 3258.93 | 0.77 | 27.36 | 3258.77 | 9.44 N | 21.65 E | 9.44 | 0.30 |
| 3351.80 | 0.94 | 33.05 | 3351.63 | 10.64 N | 22.35 E | 10.64 | 0.21 |
| 3445.40 | 0.89 | 33.34 | 3445.22 | 11.90 N | 23.18 E | 11.90 | 0.06 |
| 3537.90 | 0.88 | 39.68 | 3537.71 | 13.05 N | 24.03 E | 13.05 | 0.11 |
| 3630.29 | 0.86 | 29.57 | 3630.09 | 14.20 N | 24.82 E | 14.20 | 0.17 |
| 3724.13 | 1.05 | 46.97 | 3723.91 | 15.40 N | 25.80 E | 15.40 | 0.37 |
| 3815.47 | 1.16 | 37.46 | 3815.23 | 16.71 N | 26.98 E | 16.71 | 0.24 |
| 3909.95 | 1.11 | 27.77 | 3909.70 | 18.28 N | 27.99 E | 18.28 | 0.21 |
| 4001.96 | 1.54 | 18.87 | 4001.69 | 20.24 N | 28.80 E | 20.24 | 0.52 |
| 4095.18 | 1.55 | 21.22 | 4094.87 | 22.60 N | 29.67 E | 22.60 | 0.07 |
| 4189.17 | 1.52 | 19.27 | 4188.83 | 24.97 N | 30.54 E | 24.97 | 0.06 |
| 4280.67 | 1.73 | 13.84 | 4280.29 | 27.46 N | 31.27 E | 27.46 | 0.28 |
| 4373.26 | 2.11 | 22.24 | 4372.83 | 30.39 N | 32.25 E | 30.39 | 0.51 |
| 4465.71 | 1.69 | 19.56 | 4465.23 | 33.26 N | 33.35 E | 33.26 | 0.46 |
| 4559.04 | 2.02 | 19.56 | 4558.51 | 36.11 N | 34.37 E | 36.11 | 0.35 |
| 4651.17 | 2.19 | 23.91 | 4650.58 | 39.24 N | 35.62 E | 39.24 | 0.25 |
| 4743.27 | 2.64 | 25.07 | 4742.59 | 42.77 N | 37.23 E | 42.77 | 0.49 |
| 4836.87 | 3.09 | 32.03 | 4836.08 | 46.87 N | 39.49 E | 46.87 | 0.61 |
| 4929.20 | 3.15 | 34.87 | 4928.26 | 51.06 N | 42.26 E | 51.06 | 0.18 |
| 5021.52 | 3.28 | 37.85 | 5020.45 | 55.22 N | 45.33 E | 55.22 | 0.23 |
| 5113.59 | 3.34 | 39.69 | 5112.36 | 59.37 N | 48.66 E | 59.37 | 0.13 |
| 5206.14 | 3.59 | 47.76 | 5204.74 | 63.39 N | 52.52 E | 63.39 | 0.59 |
| 5299.05 | 3.70 | 48.27 | 5297.46 | 67.34 N | 56.92 E | 67.34 | 0.12 |
| 5364.19 | 3.45 | 52.11 | 5362.48 | 69.95 N | 60.04 E | 69.95 | 0.54 |
| 5429.81 | 3.65 | 46.91 | 5427.97 | 72.59 N | 63.12 E | 72.59 | 0.58 |
| 5518.31 | 3.73 | 45.18 | 5516.29 | 76.55 N | 67.22 E | 76.55 | 0.15 |
| 5612.70 | 3.58 | 42.26 | 5610.48 | 80.90 N | 71.39 E | 80.90 | 0.25 |
| 5704.09 | 3.56 | 42.97 | 5701.70 | 85.09 N | 75.24 E | 85.09 | 0.06 |
| 5795.19 | 3.47 | 41.51 | 5792.62 | 89.22 N | 79.00 E | 89.22 | 0.13 |
| 5889.32 | 3.48 | 42.48 | 5886.58 | 93.46 N | 82.82 E | 93.46 | 0.06 |
| 5980.70 | 3.42 | 42.67 | 5977.80 | 97.52 N | 86.54 E | 97.52 | 0.07 |
| 6075.07 | 3.43 | 41.69 | 6072.00 | 101.69 N | 90.33 E | 101.69 | 0.06 |
| 6167.81 | 3.55 | 39.12 | 6164.57 | 105.99 N | 93.98 E | 105.99 | 0.21 |
| 6259.59 | 3.53 | 39.52 | 6256.17 | 110.37 N | 97.57 E | 110.37 | 0.03 |
| 6346.61 | 3.75 | 37.26 | 6343.02 | 114.70 N | 100.99 E | 114.70 | 0.30 |
| 6445.34 | 3.99 | 34.54 | 6441.52 | 120.10 N | 104.89 E | 120.10 | 0.31 |
| 6536.48 | 3.96 | 35.37 | 6532.44 | 125.27 N | 108.51 E | 125.27 | 0.07 |
| 6628.63 | 3.92 | 37.01 | 6624.37 | 130.38 N | 112.25 E | 130.38 | 0.13 |
| 6721.62 | 3.89 | 35.41 | 6717.15 | 135.49 N | 115.99 E | 135.49 | 0.12 |
| 6745.05 | 3.99 | 35.86 | 6740.52 | 136.80 N | 116.93 E | 136.80 | 0.46 |
| 6800.00 | 3.99 | 35.86 | 6795.34 | 139.90 N | 119.17 E | 139.90 | 0.00 |

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 0.00 DEGREES (GRID)
A TOTAL CORRECTION OF 10.95 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 6800.00 FEET
IS 183.78 FEET ALONG 40.42 DEGREES (GRID)**

Map System: NAD 83 UTM Zones
Geo Datum: North American Datum of 1983
Map Zone: Universal Transverse Mercator Zone 03N

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