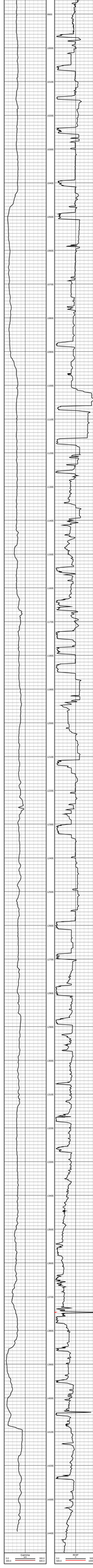

**ENSIGN Directional**

# Wiedeman 28E-404

MD
2":100'

**Company:** Petroleum Development Corp.
**Well Name:** Wiedeman 28E-404
**API:** 05-123-40561-00
**County/Parish:** Weld
**State:** Colorado
**Country:** USA
**Job number:** 207-121-239
**Field:** DJ Basin
**Rig Id:** Ensign 121
**Survey Company:** Ensign Directional Services
**Company Man 1** Dean Haight

**Lead Directional Driller** Brevin Williams
**Rotating Directional Driller** Dave Van Doran
**Night Directional Driller** Ramon Hernandez

**MWD** Ensign Directional Services

| | **Depth** | **Date** |
|---|---|---|
| **Start:** | 0 ft | 8-8-2015 |
| **End:** | 14459 ft | 8-20-2015 |

**Log measurements:** gamma, ROP
**Depth measured from:** Rig Floor
**Maximum temperature:** ------

| **Casing** | **Depth** | **Size** |
|---|---|---|
| **Surface:** | 909 | 9 5/8 |
| **Intermediate:** | 7754 | 7 |

**Mud Type:** H2O
**Density:**
**Viscosity:**
**Rm:** **Rmf:** **Rmc:**

**Elevations**
**KB:** 4776
**GL:** 4763
**DF:** 4776

| **Run** | **Bit Size** | **Offsets Gamma** | **Offsets Survey** | **Depths Start** | **Depths End** | **Dates Start** | **Dates End** |
|---|---|---|---|---|---|---|---|
| 1 | 12.25 | | 61.51 | 0 | 164 | 8-8-2015 | 8-8-2015 |
| 2 | 12.25 | | 54.49 | 164 | 920 | 8-9-2015 | 8-9-2015 |
| 3 | 8.75 | 61.74 | 56.74 | 920 | 6226 | 8-11-2015 | 8-12-2015 |
| 4 | 8.75 | 60.07 | 55.07 | 6226 | 7779 | 8-12-2015 | 8-14-2015 |
| 5 | 6.125 | 61.48 | 56.48 | 7779 | 13741 | 8-15-2015 | 8-19-2015 |
| 6 | 6.125 | 62.80 | 57.80 | 13741 | 14459 | 8-19-2015 | 8-20-2015 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |

Ensign Directional Services uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.

#10 MD(865.00) Inc(6.9) Azm(345.5) TVD(862.89)
VS(22.91) NS(46.25) EW(-17.82) TEMP(0.0)

#11 MD(1007.00) Inc(7.7) Azm(346.0) TVD(1003.73)
VS(29.29) NS(63.74) EW(-22.26) TEMP(0.0)

#12 MD(1101.00) Inc(10.6) Azm(359.2) TVD(1096.54)
VS(32.59) NS(78.50) EW(-23.91) TEMP(0.0)

#13 MD(1195.00) Inc(10.1) Azm(359.9) TVD(1189.01)
VS(34.62) NS(95.38) EW(-24.04) TEMP(0.0)

#14 MD(1288.00) Inc(13.8) Azm(359.9) TVD(1279.98)
VS(36.82) NS(114.64) EW(-24.07) TEMP(0.0)

#15 MD(1382.00) Inc(15.4) Azm(353.0) TVD(1370.94)
VS(41.01) NS(138.24) EW(-25.61) TEMP(0.0)

#16 MD(1475.00) Inc(14.4) Azm(343.3) TVD(1460.83)
VS(48.43) NS(161.58) EW(-30.44) TEMP(0.0)

#17 MD(1568.00) Inc(14.7) Azm(330.7) TVD(1550.87)
VS(59.88) NS(182.95) EW(-39.54) TEMP(0.0)

#18 MD(1661.00) Inc(14.6) Azm(330.5) TVD(1640.85)
VS(73.65) NS(203.44) EW(-51.09) TEMP(0.0)

#19 MD(1754.00) Inc(14.1) Azm(329.5) TVD(1730.95)
VS(87.35) NS(223.40) EW(-62.61) TEMP(0.0)

#20 MD(1848.00) Inc(11.8) Azm(325.6) TVD(1822.55)
VS(100.52) NS(241.20) EW(-73.85) TEMP(0.0)

#21 MD(1942.00) Inc(9.3) Azm(335.6) TVD(1914.96)
VS(110.71) NS(256.05) EW(-82.42) TEMP(0.0)

#22 MD(2038.00) Inc(8.9) Azm(342.3) TVD(2009.76)
VS(117.73) NS(270.19) EW(-87.89) TEMP(0.0)

#23 MD(2133.00) Inc(8.5) Azm(340.0) TVD(2103.66)
VS(123.86) NS(283.79) EW(-92.52) TEMP(0.0)

#24 MD(2229.00) Inc(7.9) Azm(336.5) TVD(2198.68)
VS(130.32) NS(296.51) EW(-97.58) TEMP(0.0)

#25 MD(2324.00) Inc(7.6) Azm(334.2) TVD(2292.81)
VS(136.93) NS(308.15) EW(-102.92) TEMP(0.0)

#26 MD(2420.00) Inc(7.3) Azm(343.9) TVD(2388.01)
VS(142.66) NS(319.73) EW(-107.37) TEMP(0.0)

#27 MD(2515.00) Inc(7.1) Azm(339.5) TVD(2482.26)
VS(147.64) NS(331.02) EW(-111.10) TEMP(0.0)

#28 MD(2610.00) Inc(7.6) Azm(4.4) TVD(2576.50)
VS(150.53) NS(342.79) EW(-112.68) TEMP(0.0)

#29 MD(2706.00) Inc(9.6) Azm(348.8) TVD(2671.43)
VS(153.19) NS(356.98) EW(-113.74) TEMP(0.0)

#30 MD(2801.00) Inc(9.5) Azm(348.3) TVD(2765.11)
VS(158.03) NS(372.42) EW(-116.87) TEMP(0.0)

#31 MD(2897.00) Inc(9.6) Azm(336.5) TVD(2859.79)
VS(164.50) NS(387.52) EW(-121.67) TEMP(0.0)

#32 MD(2992.00) Inc(9.2) Azm(335.6) TVD(2953.52)
VS(172.35) NS(401.70) EW(-127.97) TEMP(0.0)

#33 MD(3087.00) Inc(9.0) Azm(334.7) TVD(3047.32)
VS(180.16) NS(415.34) EW(-134.28) TEMP(0.0)

#34 MD(3183.00) Inc(8.9) Azm(333.2) TVD(3142.15)
VS(188.18) NS(428.76) EW(-140.84) TEMP(0.0)

#35 MD(3278.00) Inc(8.4) Azm(330.7) TVD(3236.07)
VS(196.27) NS(441.37) EW(-147.55) TEMP(0.0)

#36 MD(3374.00) Inc(7.9) Azm(335.6) TVD(3331.10)
VS(203.75) NS(453.49) EW(-153.70) TEMP(0.0)

#37 MD(3469.00) Inc(8.4) Azm(343.7) TVD(3425.15)
VS(209.78) NS(466.10) EW(-158.35) TEMP(0.0)

#38 MD(3565.00) Inc(10.1) Azm(340.5) TVD(3519.90)
VS(216.18) NS(480.76) EW(-163.13) TEMP(0.0)

#39 MD(3660.00) Inc(9.5) Azm(340.5) TVD(3613.51)
VS(223.26) NS(496.00) EW(-168.52) TEMP(0.0)

#40 MD(3756.00) Inc(8.6) Azm(340.2) TVD(3708.31)
VS(229.90) NS(510.23) EW(-173.60) TEMP(0.0)

#41 MD(3851.00) Inc(8.1) Azm(344.2) TVD(3802.31)
VS(235.58) NS(523.35) EW(-177.83) TEMP(0.0)

#42 MD(3946.00) Inc(9.5) Azm(341.9) TVD(3896.19)
VS(241.38) NS(537.24) EW(-182.09) TEMP(0.0)

#43 MD(4042.00) Inc(10.3) Azm(341.8) TVD(3990.76)
VS(248.25) NS(552.92) EW(-187.23) TEMP(0.0)

#44 MD(4137.00) Inc(9.4) Azm(340.0) TVD(4084.35)
VS(255.25) NS(568.28) EW(-192.54) TEMP(0.0)

#45 MD(4233.00) Inc(8.7) Azm(347.2) TVD(4179.16)
VS(261.14) NS(582.73) EW(-196.83) TEMP(0.0)

#46 MD(4328.00) Inc(9.8) Azm(342.5) TVD(4272.93)
VS(266.79) NS(597.45) EW(-200.85) TEMP(0.0)

#47 MD(4423.00) Inc(10.4) Azm(345.8) TVD(4366.45)
VS(273.10) NS(613.47) EW(-205.38) TEMP(0.0)

#48 MD(4519.00) Inc(10.3) Azm(344.1) TVD(4460.89)
VS(279.42) NS(630.13) EW(-209.86) TEMP(0.0)

#49 MD(4614.00) Inc(10.0) Azm(343.9) TVD(4554.41)
VS(285.82) NS(646.22) EW(-214.47) TEMP(0.0)

#50 MD(4709.00) Inc(9.7) Azm(344.2) TVD(4648.01)
VS(292.01) NS(661.85) EW(-218.94) TEMP(0.0)

#51 MD(4805.00) Inc(10.7) Azm(336.7) TVD(4742.49)
VS(299.50) NS(677.81) EW(-224.67) TEMP(0.0)

#52 MD(4899.00) Inc(9.8) Azm(334.4) TVD(4834.99)
VS(308.08) NS(693.04) EW(-231.58) TEMP(0.0)

#53 MD(4994.00) Inc(9.5) Azm(342.8) TVD(4928.65)
VS(315.52) NS(707.82) EW(-237.39) TEMP(0.0)

#54 MD(5090.00) Inc(9.8) Azm(351.4) TVD(5023.30)
VS(320.82) NS(723.47) EW(-240.95) TEMP(0.0)

#55 MD(5185.00) Inc(9.0) Azm(348.1) TVD(5117.02)
VS(325.26) NS(738.74) EW(-243.69) TEMP(0.0)

#56 MD(5280.00) Inc(8.1) Azm(359.3) TVD(5210.97)
VS(328.44) NS(752.70) EW(-245.31) TEMP(0.0)

#57 MD(5376.00) Inc(9.4) Azm(349.7) TVD(5305.86)
VS(331.54) NS(767.18) EW(-246.79) TEMP(0.0)

#58 MD(5471.00) Inc(9.4) Azm(347.2) TVD(5399.58)
VS(336.34) NS(782.38) EW(-249.90) TEMP(0.0)

#59 MD(5567.00) Inc(10.5) Azm(347.9) TVD(5494.14)
VS(341.71) NS(798.58) EW(-253.47) TEMP(0.0)

#60 MD(5662.00) Inc(9.1) Azm(347.2) TVD(5587.75)
VS(346.94) NS(814.37) EW(-256.95) TEMP(0.0)

#61 MD(5757.00) Inc(9.4) Azm(345.6) TVD(5681.51)
VS(352.18) NS(829.21) EW(-260.54) TEMP(0.0)

#62 MD(5853.00) Inc(9.4) Azm(336.5) TVD(5776.23)
VS(358.89) NS(843.99) EW(-265.62) TEMP(0.0)

#63 MD(5948.00) Inc(8.2) Azm(328.2) TVD(5870.11)
VS(366.96) NS(856.86) EW(-272.28) TEMP(0.0)

#64 MD(6043.00) Inc(6.0) Azm(316.3) TVD(5964.38)
VS(374.97) NS(866.21) EW(-279.28) TEMP(0.0)

#65 MD(6139.00) Inc(4.6) Azm(319.8) TVD(6059.97)
VS(381.62) NS(872.78) EW(-285.24) TEMP(0.0)

#66 MD(6236.00) Inc(2.7) Azm(321.6) TVD(6156.77)
VS(386.06) NS(877.54) EW(-289.17) TEMP(0.0)

#67 MD(6331.00) Inc(0.5) Azm(294.7) TVD(6251.73)
VS(388.03) NS(879.47) EW(-290.93) TEMP(0.0)

#68 MD(6426.00) Inc(0.4) Azm(299.2) TVD(6346.72)
VS(388.73) NS(879.80) EW(-291.60) TEMP(0.0)

#69 MD(6520.00) Inc(0.4) Azm(315.9) TVD(6440.72)
VS(389.29) NS(880.20) EW(-292.11) TEMP(0.0)

#70 MD(6616.00) Inc(5.5) Azm(273.4) TVD(6536.57)
VS(394.15) NS(880.71) EW(-296.94) TEMP(164.1)

#71 MD(6711.00) Inc(11.3) Azm(268.6) TVD(6630.51)
VS(407.92) NS(880.76) EW(-310.80) TEMP(164.1)

#72 MD(6807.00) Inc(15.6) Azm(271.3) TVD(6723.85)
VS(430.11) NS(880.82) EW(-333.12) TEMP(164.1)

#73 MD(6902.00) Inc(20.6) Azm(268.1) TVD(6814.13)
VS(459.38) NS(880.55) EW(-362.61) TEMP(164.1)

#74 MD(6997.00) Inc(28.0) Azm(268.1) TVD(6900.65)
VS(498.03) NS(879.26) EW(-401.66) TEMP(164.1)

#75 MD(7092.00) Inc(37.6) Azm(272.5) TVD(6980.42)
VS(549.14) NS(879.79) EW(-453.03) TEMP(164.1)

#76 MD(7188.00) Inc(47.7) Azm(273.0) TVD(7050.94)
VS(613.96) NS(882.93) EW(-517.91) TEMP(164.1)

#77 MD(7283.00) Inc(54.5) Azm(270.0) TVD(7110.57)
VS(687.55) NS(884.77) EW(-591.76) TEMP(164.1)

#78 MD(7379.00) Inc(58.7) Azm(267.1) TVD(7163.41)
VS(766.89) NS(882.69) EW(-671.85) TEMP(164.1)

#79 MD(7474.00) Inc(63.8) Azm(267.9) TVD(7209.09)
VS(849.14) NS(879.08) EW(-755.03) TEMP(164.1)

#80 MD(7521.00) Inc(69.7) Azm(268.6) TVD(7227.64)
VS(891.86) NS(877.76) EW(-798.17) TEMP(164.1)

#81 MD(7569.00) Inc(75.6) Azm(269.2) TVD(7241.94)
VS(937.26) NS(876.89) EW(-843.96) TEMP(164.1)

#82 MD(7616.00) Inc(78.2) Azm(270.6) TVD(7252.60)
VS(982.73) NS(876.81) EW(-889.73) TEMP(164.1)

#83 MD(7665.00) Inc(80.7) Azm(270.2) TVD(7261.57)
VS(1030.63) NS(877.15) EW(-937.90) TEMP(164.1)

#84 MD(7724.00) Inc(84.9) Azm(269.5) TVD(7268.96)
VS(1088.76) NS(876.99) EW(-996.42) TEMP(164.1)

#85 MD(7870.00) Inc(89.7) Azm(272.0) TVD(7275.84)
VS(1233.83) NS(878.91) EW(-1142.19) TEMP(178.9)

#86 MD(7966.00) Inc(89.9) Azm(272.2) TVD(7276.17)
VS(1329.55) NS(882.43) EW(-1238.13) TEMP(178.9)

#87 MD(8058.00) Inc(89.3) Azm(270.6) TVD(7276.81)
VS(1421.18) NS(884.67) EW(-1330.09) TEMP(178.9)

#88 MD(8150.00) Inc(90.1) Azm(269.7) TVD(7277.29)
VS(1512.62) NS(884.91) EW(-1422.09) TEMP(193.7)

#89 MD(8242.00) Inc(90.7) Azm(269.9) TVD(7276.65)
VS(1604.00) NS(884.59) EW(-1514.09) TEMP(193.7)

#90 MD(8335.00) Inc(90.5) Azm(267.6) TVD(7275.68)
VS(1696.15) NS(882.56) EW(-1607.05) TEMP(193.7)

#91 MD(8427.00) Inc(90.6) Azm(266.9) TVD(7274.80)
VS(1786.96) NS(878.15) EW(-1698.94) TEMP(193.7)

#92 MD(8519.00) Inc(92.1) Azm(270.4) TVD(7272.63)
VS(1878.06) NS(875.98) EW(-1790.88) TEMP(193.7)

#93 MD(8611.00) Inc(90.1) Azm(271.6) TVD(7270.86)
VS(1969.62) NS(877.59) EW(-1882.84) TEMP(208.5)

#94 MD(8704.00) Inc(90.5) Azm(272.2) TVD(7270.37)
VS(2062.32) NS(880.67) EW(-1975.78) TEMP(208.5)

#95 MD(8796.00) Inc(88.8) Azm(270.9) TVD(7270.94)
VS(2153.98) NS(883.16) EW(-2067.74) TEMP(208.5)

#96 MD(8888.00) Inc(89.5) Azm(269.9) TVD(7272.30)
VS(2245.45) NS(883.80) EW(-2159.73) TEMP(208.5)

#97 MD(8981.00) Inc(89.3) Azm(270.0) TVD(7273.28)
VS(2337.85) NS(883.72) EW(-2252.72) TEMP(208.5)

#98 MD(9073.00) Inc(89.3) Azm(270.8) TVD(7274.40)
VS(2429.33) NS(884.36) EW(-2344.71) TEMP(193.7)

#99 MD(9165.00) Inc(90.2) Azm(270.8) TVD(7274.80)
VS(2520.88) NS(885.65) EW(-2436.70) TEMP(193.7)

#100 MD(9257.00) Inc(90.3) Azm(269.9) TVD(7274.40)
VS(2612.35) NS(886.21) EW(-2528.70) TEMP(208.5)

#101 MD(9350.00) Inc(91.6) Azm(269.7) TVD(7272.86)
VS(2704.71) NS(885.89) EW(-2621.69) TEMP(208.5)

#102 MD(9442.00) Inc(91.6) Azm(268.8) TVD(7270.29)
VS(2795.95) NS(884.68) EW(-2713.64) TEMP(208.5)

#103 MD(9534.00) Inc(91.8) Azm(268.6) TVD(7267.56)
VS(2887.06) NS(882.60) EW(-2805.58) TEMP(208.5)

#104 MD(9626.00) Inc(89.5) Azm(267.8) TVD(7266.52)
VS(2978.10) NS(879.71) EW(-2897.52) TEMP(208.5)

#105 MD(9719.00) Inc(90.3) Azm(268.1) TVD(7266.68)
VS(3070.07) NS(876.38) EW(-2990.46) TEMP(208.5)

#106 MD(9811.00) Inc(90.6) Azm(268.3) TVD(7265.96)
VS(3161.11) NS(873.49) EW(-3082.41) TEMP(208.5)

#107 MD(9903.00) Inc(91.1) Azm(268.1) TVD(7264.59)
VS(3252.15) NS(870.60) EW(-3174.35) TEMP(208.5)

#108 MD(9995.00) Inc(91.0) Azm(268.3) TVD(7262.90)
VS(3343.18) NS(867.71) EW(-3266.29) TEMP(208.5)

#109 MD(10087.00) Inc(90.0) Azm(269.2) TVD(7262.10)
VS(3434.34) NS(865.70) EW(-3358.26) TEMP(208.5)

#110 MD(10180.00) Inc(89.6) Azm(269.5) TVD(7262.43)
VS(3526.63) NS(864.65) EW(-3451.26) TEMP(223.3)

#111 MD(10336.00) Inc(89.8) Azm(269.5) TVD(7263.24)
VS(3681.47) NS(863.29) EW(-3607.25) TEMP(208.5)

#112 MD(10432.00) Inc(90.9) Azm(269.7) TVD(7262.66)
VS(3776.78) NS(862.62) EW(-3703.24) TEMP(208.5)

#113 MD(10527.00) Inc(89.6) Azm(271.5) TVD(7262.24)
VS(3871.28) NS(863.61) EW(-3798.23) TEMP(223.3)

#114 MD(10623.00) Inc(90.0) Azm(271.8) TVD(7262.58)
VS(3966.94) NS(866.38) EW(-3894.19) TEMP(223.3)

#115 MD(10718.00) Inc(89.5) Azm(271.3) TVD(7262.99)
VS(4061.59) NS(868.95) EW(-3989.16) TEMP(223.3)

#116 MD(10814.00) Inc(90.3) Azm(271.6) TVD(7263.16)
VS(4157.22) NS(871.38) EW(-4085.12) TEMP(223.3)

#117 MD(10909.00) Inc(89.4) Azm(272.3) TVD(7263.41)
VS(4251.93) NS(874.61) EW(-4180.07) TEMP(223.3)

#118 MD(11004.00) Inc(87.3) Azm(271.1) TVD(7266.14)
VS(4346.55) NS(877.43) EW(-4274.98) TEMP(223.3)

#119 MD(11100.00) Inc(88.0) Azm(270.4) TVD(7270.08)
VS(4442.00) NS(878.68) EW(-4370.89) TEMP(223.3)

#120 MD(11195.00) Inc(89.2) Azm(269.2) TVD(7272.40)
VS(4536.32) NS(878.35) EW(-4465.86) TEMP(208.5)

#121 MD(11291.00) Inc(90.0) Azm(269.0) TVD(7273.07)
VS(4631.53) NS(876.84) EW(-4561.84) TEMP(223.3)

#122 MD(11386.00) Inc(90.2) Azm(269.2) TVD(7272.91)
VS(4725.75) NS(875.35) EW(-4656.83) TEMP(223.3)

#123 MD(11481.00) Inc(89.0) Azm(268.5) TVD(7273.57)
VS(4819.90) NS(873.44) EW(-4751.80) TEMP(223.3)

#124 MD(11577.00) Inc(88.2) Azm(266.4) TVD(7275.91)
VS(4914.69) NS(869.17) EW(-4847.67) TEMP(223.3)

#125 MD(11672.00) Inc(88.6) Azm(266.7) TVD(7278.57)
VS(5008.23) NS(863.46) EW(-4942.47) TEMP(223.3)

#126 MD(11768.00) Inc(89.9) Azm(267.6) TVD(7279.82)
VS(5102.96) NS(858.69) EW(-5038.34) TEMP(223.3)

#127 MD(11863.00) Inc(90.1) Azm(270.4) TVD(7279.82)
VS(5197.14) NS(857.03) EW(-5133.31) TEMP(223.3)

#128 MD(11958.00) Inc(90.7) Azm(271.1) TVD(7279.16)
VS(5291.67) NS(858.27) EW(-5228.30) TEMP(223.3)

#129 MD(12054.00) Inc(91.5) Azm(271.8) TVD(7277.32)
VS(5387.28) NS(860.70) EW(-5324.25) TEMP(223.3)

#130 MD(12149.00) Inc(90.5) Azm(272.3) TVD(7275.66)
VS(5481.98) NS(864.10) EW(-5419.17) TEMP(223.3)

#131 MD(12245.00) Inc(91.1) Azm(273.2) TVD(7274.32)
VS(5577.77) NS(868.70) EW(-5515.05) TEMP(223.3)

#132 MD(12340.00) Inc(89.5) Azm(271.8) TVD(7273.82)
VS(5672.54) NS(872.85) EW(-5609.96) TEMP(223.3)

#133 MD(12436.00) Inc(89.9) Azm(272.0) TVD(7274.32)
VS(5768.23) NS(876.03) EW(-5705.90) TEMP(223.3)

#134 MD(12531.00) Inc(91.5) Azm(272.7) TVD(7273.16)
VS(5862.98) NS(879.92) EW(-5800.81) TEMP(223.3)

#135 MD(12626.00) Inc(90.2) Azm(273.2) TVD(7271.75)
VS(5957.79) NS(884.81) EW(-5895.67) TEMP(223.3)

#136 MD(12722.00) Inc(90.0) Azm(272.9) TVD(7271.59)
VS(6053.62) NS(889.92) EW(-5991.54) TEMP(223.3)

#137 MD(12817.00) Inc(88.6) Azm(270.6) TVD(7272.75)
VS(6148.28) NS(892.82) EW(-6086.47) TEMP(223.3)

#138 MD(12913.00) Inc(88.6) Azm(269.5) TVD(7275.09)
VS(6243.65) NS(892.91) EW(-6182.44) TEMP(238.1)

#139 MD(13008.00) Inc(89.3) Azm(270.0) TVD(7276.83)
VS(6337.98) NS(892.49) EW(-6277.43) TEMP(238.1)

#140 MD(13104.00) Inc(90.3) Azm(270.2) TVD(7277.17)
VS(6433.39) NS(892.66) EW(-6373.43) TEMP(238.1)

#141 MD(13199.00) Inc(90.0) Azm(269.3) TVD(7276.92)
VS(6527.74) NS(892.24) EW(-6468.42) TEMP(238.1)

#142 MD(13294.00) Inc(90.1) Azm(268.3) TVD(7276.84)
VS(6621.89) NS(890.25) EW(-6563.40) TEMP(238.1)

#143 MD(13389.00) Inc(90.4) Azm(267.2) TVD(7276.42)
VS(6715.79) NS(886.52) EW(-6658.32) TEMP(238.1)

#144 MD(13484.00) Inc(90.0) Azm(265.3) TVD(7276.09)
VS(6809.28) NS(880.31) EW(-6753.12) TEMP(238.1)

#145 MD(13579.00) Inc(88.5) Azm(266.2) TVD(7277.33)
VS(6902.62) NS(873.27) EW(-6847.84) TEMP(238.1)

#146 MD(13697.00) Inc(88.9) Azm(266.7) TVD(7280.01)
VS(7018.79) NS(865.97) EW(-6965.59) TEMP(238.1)

#147 MD(13792.00) Inc(90.2) Azm(269.3) TVD(7280.76)
VS(7112.74) NS(862.65) EW(-7060.52) TEMP(238.1)

#148 MD(13887.00) Inc(91.3) Azm(270.2) TVD(7279.51)
VS(7207.08) NS(862.24) EW(-7155.50) TEMP(238.1)

#149 MD(13982.00) Inc(91.3) Azm(270.9) TVD(7277.36)
VS(7301.55) NS(863.15) EW(-7250.47) TEMP(238.1)

#150 MD(14078.00) Inc(90.7) Azm(271.6) TVD(7275.68)
VS(7397.14) NS(865.24) EW(-7346.44) TEMP(238.1)

#151 MD(14173.00) Inc(90.9) Azm(271.8) TVD(7274.36)
VS(7491.80) NS(868.06) EW(-7441.38) TEMP(238.1)

#152 MD(14268.00) Inc(91.2) Azm(271.8) TVD(7272.62)
VS(7586.47) NS(871.05) EW(-7536.32) TEMP(252.9)

#153 MD(14364.00) Inc(92.2) Azm(272.5) TVD(7269.77)
VS(7682.16) NS(874.65) EW(-7632.21) TEMP(252.9)

#154 MD(14404.00) Inc(92.6) Azm(272.7) TVD(7268.09)
VS(7722.03) NS(876.46) EW(-7672.13) TEMP(252.9)