State North Platte K-O-36HC

MD
5":100'

Company: Bonanza Creek Energy Company
Well Name: State North Platte K-O-36HC
UWI or LSD: 05-123-37669
Rig Id: Ensign 128
State: Colorado
County/Parish: Weld
Country: USA
Survey Company: ENSIGN Directional
Job number:
Directional 1: Chris Saykally
Directional 2: Arin Hatfield
MWD 1: Paul Seevers Jr.
MWD 2: Luke Henkenius

Company Man: Tim Joel
Geologist:

Log measurements: Gamma
Depth measured from:
Maximum temperature:

	Depth	Date
Start:	450 ft	8/14/2013
End:	11380 ft	

Casing	Depth	Size
Surface:	506	9 5/8
Intermediate:	6849	8 3/4

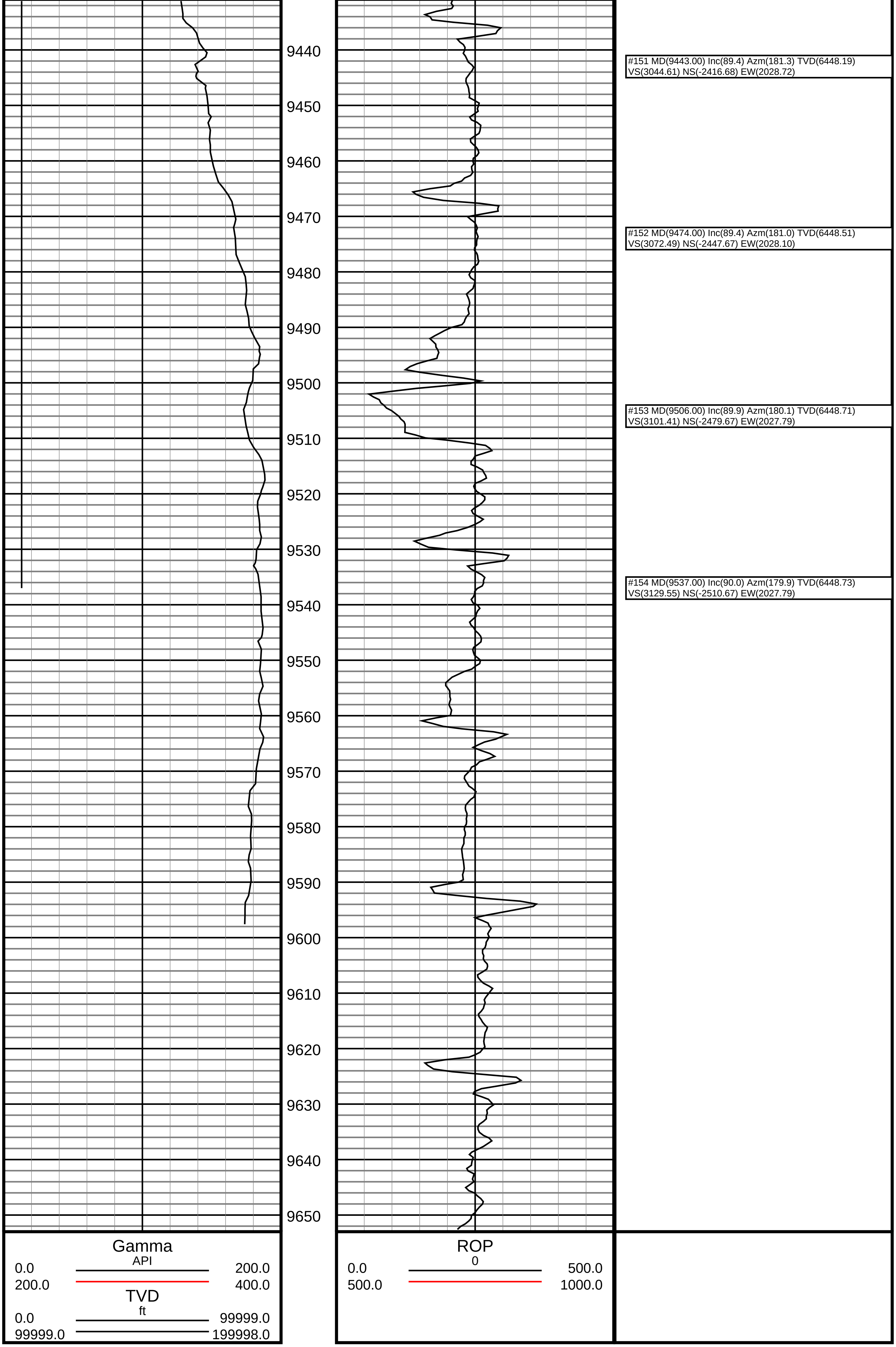
Mud Type:
Density:
Viscosity:
Rm: **Rmf:** **Rmc:**

Elevations
KB: 4573
GL: 4558
DF: 4573

Run	Bit Size	Offsets Gamma	Offsets Survey	Depths Start	Depths End	Dates Start	Dates End
1	8 3/4	55.64	50.64	6300	7306	8/17/2013	8/18/2013
2	6 1/8	55.32	50.32	7307		8/20/2013	
3							
4							
5							
6							
7							
8							
9							
10							

ENSIGN Directional 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.

#46 MD(5631.00) Inc(11.7) Azm(65.7) TVD(5135.07) VS(548.98) NS(341.09) EW(2047.81)
#47 MD(5758.00) Inc(9.0) Azm(67.6) TVD(5259.99) VS(549.50) NS(350.18) EW(2068.74)
#48 MD(5885.00) Inc(4.9) Azm(73.9) TVD(5386.03) VS(550.73) NS(355.47) EW(2083.14)
#49 MD(6012.00) Inc(2.5) Azm(89.2) TVD(5512.76) VS(552.68) NS(357.01) EW(2091.12)
#50 MD(6139.00) Inc(1.3) Azm(171.7) TVD(5639.71) VS(555.19) NS(355.63) EW(2094.10)
#51 MD(6248.00) Inc(1.9) Azm(187.1) TVD(5748.67) VS(557.91) NS(352.61) EW(2094.06)
#52 MD(6269.00) Inc(1.8) Azm(184.0) TVD(5769.66) VS(558.49) NS(351.93) EW(2093.99)
#53 MD(6301.00) Inc(2.2) Azm(181.2) TVD(5801.64) VS(559.49) NS(350.82) EW(2093.94)
#54 MD(6333.00) Inc(4.5) Azm(180.5) TVD(5833.58) VS(561.17) NS(348.95) EW(2093.92)
#55 MD(6364.00) Inc(8.4) Azm(181.9) TVD(5864.38) VS(564.30) NS(345.47) EW(2093.83)
#56 MD(6396.00) Inc(12.4) Azm(187.7) TVD(5895.85) VS(569.28) NS(339.73) EW(2093.29)
#57 MD(6428.00) Inc(15.0) Azm(191.5) TVD(5926.93) VS(575.52) NS(332.26) EW(2092.01)
#58 MD(6459.00) Inc(17.1) Azm(190.7) TVD(5956.72) VS(582.47) NS(323.85) EW(2090.36)
#59 MD(6491.00) Inc(19.4) Azm(190.5) TVD(5987.11) VS(590.64) NS(314.00) EW(2088.52)
#60 MD(6523.00) Inc(22.6) Azm(189.6) TVD(6016.98) VS(600.05) NS(302.71) EW(2086.52)
#61 MD(6555.00) Inc(25.0) Azm(187.8) TVD(6046.26) VS(610.82) NS(289.95) EW(2084.58)
#62 MD(6587.00) Inc(26.4) Azm(187.3) TVD(6075.09) VS(622.55) NS(276.19) EW(2082.76)
#63 MD(6619.00) Inc(27.3) Azm(188.4) TVD(6103.64) VS(634.72) NS(261.87) EW(2080.78)
#64 MD(6650.00) Inc(29.4) Azm(189.1) TVD(6130.92) VS(646.98) NS(247.32) EW(2078.54)
#65 MD(6682.00) Inc(32.0) Azm(187.5) TVD(6158.44) VS(660.68) NS(231.16) EW(2076.19)
#66 MD(6714.00) Inc(34.9) Azm(189.4) TVD(6185.14) VS(675.42) NS(213.72) EW(2073.59)
#67 MD(6746.00) Inc(37.5) Azm(190.1) TVD(6210.96) VS(690.98) NS(195.09) EW(2070.39)
#68 MD(6777.00) Inc(40.0) Azm(189.6) TVD(6235.13) VS(706.95) NS(175.98) EW(2067.07)
#69 MD(6809.00) Inc(41.5) Azm(186.8) TVD(6259.37) VS(724.47) NS(155.31) EW(2064.10)
#70 MD(6841.00) Inc(43.9) Azm(184.5) TVD(6282.89) VS(743.18) NS(133.72) EW(2061.97)
#71 MD(6873.00) Inc(46.5) Azm(185.0) TVD(6305.44) VS(762.93) NS(111.09) EW(2060.09)
#72 MD(6904.00) Inc(50.2) Azm(183.6) TVD(6326.04) VS(783.17) NS(87.99) EW(2058.36)
#73 MD(6936.00) Inc(53.7) Azm(182.7) TVD(6345.76) VS(805.43) NS(62.84) EW(2056.98)
#74 MD(6968.00) Inc(56.9) Azm(181.5) TVD(6363.97) VS(828.89) NS(36.55) EW(2056.02)
#75 MD(6999.00) Inc(60.7) Azm(179.6) TVD(6380.03) VS(852.86) NS(10.04) EW(2055.78)
#76 MD(7031.00) Inc(63.3) Azm(176.2) TVD(6395.05) VS(878.92) NS(-18.18) EW(2056.82)
#77 MD(7063.00) Inc(66.7) Azm(175.5) TVD(6408.58) VS(906.06) NS(-47.11) EW(2058.92)
#78 MD(7095.00) Inc(67.1) Azm(175.2) TVD(6421.13) VS(933.69) NS(-76.44) EW(2061.31)
#79 MD(7127.00) Inc(68.0) Azm(175.9) TVD(6433.35) VS(961.42) NS(-105.93) EW(2063.60)
#80 MD(7158.00) Inc(72.5) Azm(176.8) TVD(6443.82) VS(988.63) NS(-135.04) EW(2065.46)
#81 MD(7190.00) Inc(76.8) Azm(176.9) TVD(6452.29) VS(1017.30) NS(-165.84) EW(2067.15)
#82 MD(7222.00) Inc(80.7) Azm(177.3) TVD(6458.53) VS(1046.42) NS(-197.18) EW(2068.74)
#83 MD(7254.00) Inc(84.7) Azm(177.8) TVD(6462.60) VS(1075.77) NS(-228.89) EW(2070.10)
#84 MD(7323.00) Inc(88.8) Azm(177.8) TVD(6466.51) VS(1139.36) NS(-297.71) EW(2072.74)
#85 MD(7355.00) Inc(89.1) Azm(178.0) TVD(6467.10) VS(1168.88) NS(-329.68) EW(2073.91)
#86 MD(7387.00) Inc(89.7) Azm(178.7) TVD(6467.43) VS(1198.30) NS(-361.67) EW(2074.83)
#87 MD(7421.00) Inc(90.2) Azm(179.1) TVD(6467.46) VS(1229.44) NS(-395.66) EW(2075.49)
#88 MD(7453.00) Inc(90.7) Azm(179.1) TVD(6467.21) VS(1258.70) NS(-427.66) EW(2075.99)
#89 MD(7484.00) Inc(91.0) Azm(178.9) TVD(6466.75) VS(1287.06) NS(-458.65) EW(2076.53)
#90 MD(7516.00) Inc(90.7) Azm(179.1) TVD(6466.28) VS(1316.34) NS(-490.64) EW(2077.09)
#91 MD(7548.00) Inc(89.8) Azm(180.1) TVD(6466.14) VS(1345.48) NS(-522.64) EW(2077.31)
#92 MD(7579.00) Inc(89.6) Azm(179.6) TVD(6466.30) VS(1373.66) NS(-553.64) EW(2077.39)
#93 MD(7611.00) Inc(89.6) Azm(180.3) TVD(6466.52) VS(1402.72) NS(-585.64) EW(2077.42)
#94 MD(7642.00) Inc(89.6) Azm(180.1) TVD(6466.74) VS(1430.82) NS(-616.63) EW(2077.31)
#95 MD(7674.00) Inc(90.7) Azm(180.6) TVD(6466.65) VS(1459.78) NS(-648.63) EW(2077.12)
#96 MD(7706.00) Inc(91.5) Azm(181.3) TVD(6466.04) VS(1488.60) NS(-680.62) EW(2076.59)
#97 MD(7737.00) Inc(91.5) Azm(181.9) TVD(6465.23) VS(1516.36) NS(-711.60) EW(2075.72)
#98 MD(7769.00) Inc(91.3) Azm(181.3) TVD(6464.45) VS(1545.02) NS(-743.58) EW(2074.83)
#99 MD(7801.00) Inc(91.2) Azm(181.7) TVD(6463.75) VS(1573.70) NS(-775.56) EW(2073.99)
#100 MD(7832.00) Inc(91.1) Azm(181.3) TVD(6463.13) VS(1601.49) NS(-806.54) EW(2073.18)
#101 MD(7864.00) Inc(91.2) Azm(181.0) TVD(6462.48) VS(1630.26) NS(-838.53) EW(2072.54)
#102 MD(7896.00) Inc(91.8) Azm(181.3) TVD(6461.65) VS(1659.03) NS(-870.51) EW(2071.89)
#103 MD(7927.00) Inc(91.1) Azm(180.6) TVD(6460.86) VS(1686.94) NS(-901.50) EW(2071.38)
#104 MD(7959.00) Inc(90.2) Azm(181.3) TVD(6460.50) VS(1715.76) NS(-933.49) EW(2070.85)
#105 MD(7991.00) Inc(90.0) Azm(181.2) TVD(6460.44) VS(1744.51) NS(-965.48) EW(2070.15)
#106 MD(8023.00) Inc(89.9) Azm(180.8) TVD(6460.47) VS(1773.33) NS(-997.48) EW(2069.59)
#107 MD(8054.00) Inc(89.3) Azm(180.3) TVD(6460.69) VS(1801.34) NS(-1028.47) EW(2069.30)
#108 MD(8086.00) Inc(89.5) Azm(180.3) TVD(6461.02) VS(1830.32) NS(-1060.47) EW(2069.13)
#109 MD(8118.00) Inc(90.7) Azm(181.7) TVD(6460.97) VS(1859.13) NS(-1092.47) EW(2068.57)
#110 MD(8149.00) Inc(90.6) Azm(181.3) TVD(6460.61) VS(1886.93) NS(-1123.45) EW(2067.76)
#111 MD(8181.00) Inc(90.6) Azm(180.6) TVD(6460.28) VS(1915.79) NS(-1155.45) EW(2067.23)
#112 MD(8213.00) Inc(90.7) Azm(180.5) TVD(6459.92) VS(1944.67) NS(-1187.44) EW(2066.92)
#113 MD(8244.00) Inc(90.7) Azm(180.3) TVD(6459.54) VS(1972.72) NS(-1218.44) EW(2066.70)
#114 MD(8276.00) Inc(91.0) Azm(180.8) TVD(6459.06) VS(2001.64) NS(-1250.44) EW(2066.40)
#115 MD(8307.00) Inc(90.8) Azm(181.5) TVD(6458.58) VS(2029.51) NS(-1281.43) EW(2065.78)
#116 MD(8339.00) Inc(90.9) Azm(181.5) TVD(6458.10) VS(2058.20) NS(-1313.41) EW(2064.94)
#117 MD(8370.00) Inc(90.7) Azm(181.5) TVD(6457.67) VS(2085.99) NS(-1344.40) EW(2064.13)
#118 MD(8402.00) Inc(90.7) Azm(181.0) TVD(6457.28) VS(2114.74) NS(-1376.39) EW(2063.43)
#119 MD(8433.00) Inc(90.8) Azm(180.6) TVD(6456.87) VS(2142.69) NS(-1407.38) EW(2063.00)
#120 MD(8465.00) Inc(90.8) Azm(181.5) TVD(6456.43) VS(2171.49) NS(-1439.37) EW(2062.41)
#121 MD(8496.00) Inc(90.7) Azm(182.0) TVD(6456.02) VS(2199.22) NS(-1470.36) EW(2061.46)
#122 MD(8528.00) Inc(90.6) Azm(182.4) TVD(6455.66) VS(2227.73) NS(-1502.33) EW(2060.23)
#123 MD(8560.00) Inc(90.3) Azm(182.6) TVD(6455.41) VS(2256.17) NS(-1534.30) EW(2058.84)
#124 MD(8591.00) Inc(90.4) Azm(182.2) TVD(6455.22) VS(2283.74) NS(-1565.27) EW(2057.54)
#125 MD(8623.00) Inc(90.4) Azm(182.0) TVD(6454.99) VS(2312.28) NS(-1597.25) EW(2056.37)
#126 MD(8655.00) Inc(90.4) Azm(182.0) TVD(6454.77) VS(2340.85) NS(-1629.23) EW(2055.25)
#127 MD(8686.00) Inc(90.5) Azm(182.4) TVD(6454.53) VS(2368.47) NS(-1660.20) EW(2054.06)
#128 MD(8717.00) Inc(90.7) Azm(182.7) TVD(6454.20) VS(2396.01) NS(-1691.17) EW(2052.68)
#129 MD(8749.00) Inc(90.7) Azm(182.6) TVD(6453.81) VS(2424.40) NS(-1723.13) EW(2051.20)
#130 MD(8781.00) Inc(90.8) Azm(182.4) TVD(6453.39) VS(2452.84) NS(-1755.10) EW(2049.81)
#131 MD(8812.00) Inc(90.4) Azm(182.6) TVD(6453.07) VS(2480.39) NS(-1786.07) EW(2048.45)
#132 MD(8844.00) Inc(90.1) Azm(182.2) TVD(6452.93) VS(2508.85) NS(-1818.04) EW(2047.11)
#133 MD(8875.00) Inc(89.5) Azm(182.0) TVD(6453.04) VS(2536.50) NS(-1849.02) EW(2045.98)
#134 MD(8906.00) Inc(90.4) Azm(181.3) TVD(6453.06) VS(2564.26) NS(-1880.01) EW(2045.09)
#135 MD(8938.00) Inc(91.2) Azm(181.7) TVD(6452.62) VS(2592.94) NS(-1911.99) EW(2044.25)
#136 MD(8970.00) Inc(91.5) Azm(181.7) TVD(6451.86) VS(2621.58) NS(-1943.97) EW(2043.30)
#137 MD(9002.00) Inc(91.8) Azm(181.9) TVD(6450.94) VS(2650.18) NS(-1975.94) EW(2042.29)
#138 MD(9034.00) Inc(91.7) Azm(181.7) TVD(6449.96) VS(2678.78) NS(-2007.91) EW(2041.29)
#139 MD(9065.00) Inc(90.9) Azm(181.7) TVD(6449.26) VS(2706.52) NS(-2038.89) EW(2040.37)
#140 MD(9097.00) Inc(90.9) Azm(181.7) TVD(6448.76) VS(2735.16) NS(-2070.87) EW(2039.42)
#141 MD(9129.00) Inc(91.1) Azm(181.9) TVD(6448.20) VS(2763.77) NS(-2102.85) EW(2038.42)
#142 MD(9160.00) Inc(91.2) Azm(182.0) TVD(6447.58) VS(2791.45) NS(-2133.83) EW(2037.36)
#143 MD(9191.00) Inc(90.5) Azm(181.7) TVD(6447.12) VS(2819.15) NS(-2164.81) EW(2036.36)
#144 MD(9223.00) Inc(90.4) Azm(182.0) TVD(6446.87) VS(2847.76) NS(-2196.79) EW(2035.33)
#145 MD(9254.00) Inc(89.4) Azm(181.5) TVD(6446.92) VS(2875.49) NS(-2227.77) EW(2034.38)
#146 MD(9285.00) Inc(89.3) Azm(181.7) TVD(6447.27) VS(2903.26) NS(-2258.76) EW(2033.52)
#147 MD(9317.00) Inc(89.6) Azm(181.9) TVD(6447.58) VS(2931.87) NS(-2290.74) EW(2032.51)
#148 MD(9349.00) Inc(89.9) Azm(181.9) TVD(6447.72) VS(2960.46) NS(-2322.72) EW(2031.45)
#149 MD(9380.00) Inc(89.8) Azm(181.7) TVD(6447.80) VS(2988.18) NS(-2353.71) EW(2030.48)
#150 MD(9411.00) Inc(89.7) Azm(181.7) TVD(6447.93) VS(3015.93) NS(-2384.69) EW(2029.56)



#151 MD(9443.00) Inc(89.4) Azm(181.3) TVD(6448.19)
VS(3044.61) NS(-2416.68) EW(2028.72)

#152 MD(9474.00) Inc(89.4) Azm(181.0) TVD(6448.51)
VS(3072.49) NS(-2447.67) EW(2028.10)

#153 MD(9506.00) Inc(89.9) Azm(180.1) TVD(6448.71)
VS(3101.41) NS(-2479.67) EW(2027.79)

#154 MD(9537.00) Inc(90.0) Azm(179.9) TVD(6448.73)
VS(3129.55) NS(-2510.67) EW(2027.79)