AD Fed J Evans 20W-25-03

MD
5":100'

Company: Extraction Oil & Gas
Well Name: AD Fed J Evans 20W-25-03
API: 05-123-41133
County/Parish: Weld
State: Colorado
Country: US
Job number: 00346EX-CO
Field: DJ Basin
Rig Id: Ensign #147
Survey Company: Atlas Drilling Services
Day MWD Matt Fetterley
Night MWD Keith Cornell

Log measurements: Gamma
Depth measured from: RKB ft
Maximum temperature: 283

	Depth	Date
Start:	1642 ft	02/25/2020
End:	19700 ft	02/28/2020

Casing	Depth	Size
Surface:	1,611 ft	9.625"
Intermediate:		

Mud Type: OBM
Density: 9.8
Viscosity: 51
Rm: N/A **Rmf:** N/A **Rmc:** N/A

Elevations
KB: 28
GL: 4638
DF: 4666

Run	Bit Size	Offsets Gamma	Offsets Survey	Depths Start	Depths End	Dates Start	Dates End
1	8.75"	47.09 ft	66.00 ft	1642 ft	3022 ft	2/25/2020 11:30	2/25/2020 18:45
2	8.75"	43.44 ft	63.00 ft	3022 ft	7669 ft	2/25/2020 20:00	2/26/2020 16:45
3	8.5"	24.78 ft	38.00 ft	7669 ft	12826 ft	2/26/2020 17:15	2/27/2020 18:45
4	8.5"	24.78 ft	38.00 ft	12826 ft	19700 ft	2/27/2020 19:30	2/28/2020 23:00
5							
6							
7							
8							
9							
10							

FLOAT:1600
SHOE:1642
KOP:6417

Atlas Drilling 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.

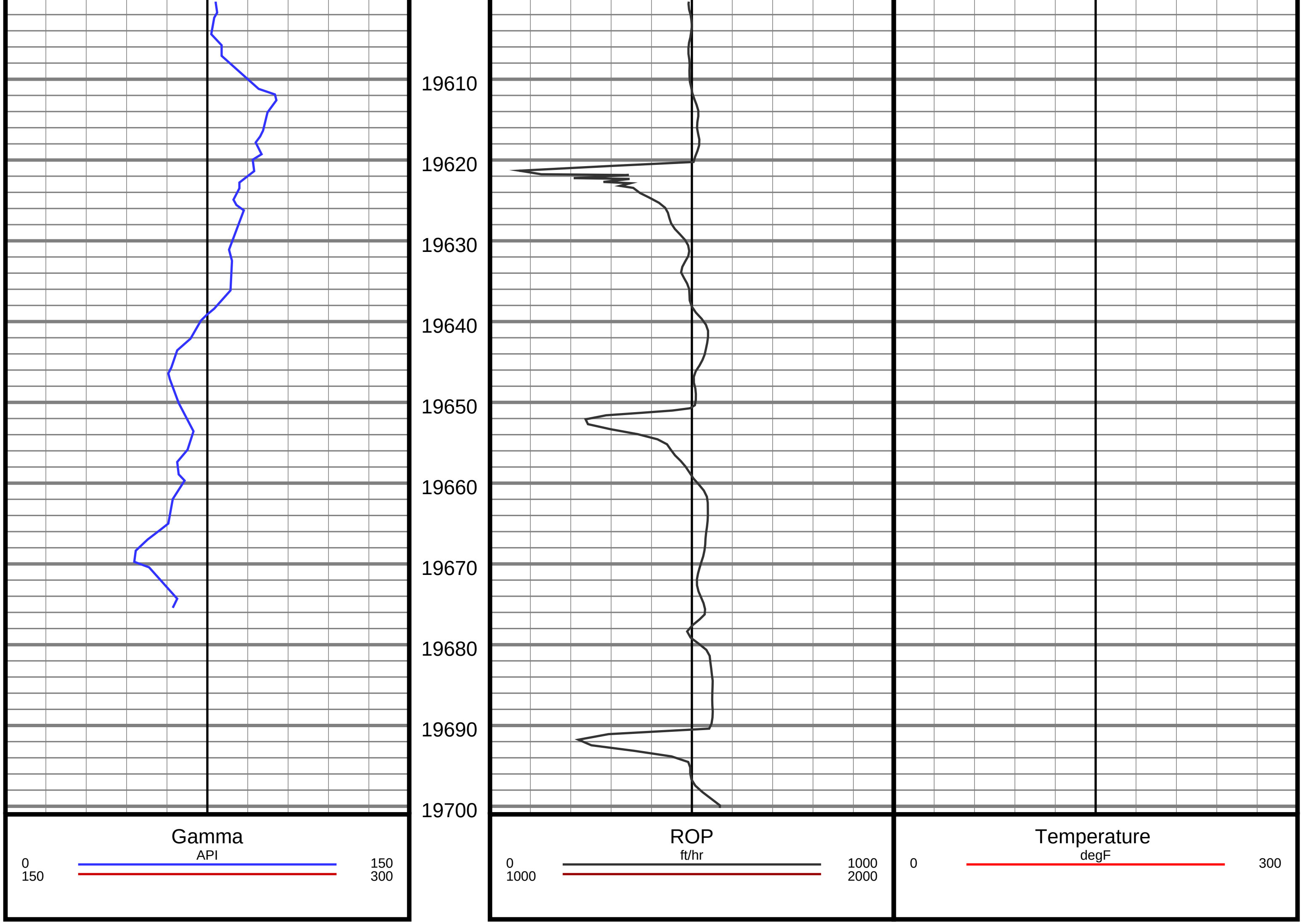
Gamma
API
0 150
150 300
MD
ROP
ft/hr
0 1000
1000 2000
Temperature
degF
0
300
#20 MD(1673.00) Inc(12.20) Azm(349.42) TVD(1650.77) VS(68.35) N/-S(223.48) E/-W(-44.09)
#21 MD(1763.00) Inc(11.84) Azm(347.08) TVD(1738.79) VS(74.15) N/-S(241.83) E/-W(-47.90)
#22 MD(1852.00) Inc(13.79) Azm(353.30) TVD(1825.58) VS(79.54) N/-S(261.27) E/-W(-51.18)
#23 MD(1942.00) Inc(13.83) Azm(352.81) TVD(1912.97) VS(84.46) N/-S(282.59) E/-W(-53.78)
#24 MD(2031.00) Inc(13.17) Azm(352.41) TVD(1999.52) VS(89.38) N/-S(303.20) E/-W(-56.45)
#25 MD(2121.00) Inc(12.68) Azm(350.87) TVD(2087.23) VS(94.47) N/-S(323.11) E/-W(-59.37)
#26 MD(2236.00) Inc(12.28) Azm(350.08) TVD(2199.52) VS(101.24) N/-S(347.62) E/-W(-63.48)
#27 MD(2325.00) Inc(11.88) Azm(349.33) TVD(2286.56) VS(106.54) N/-S(365.99) E/-W(-66.79)
#28 MD(2414.00) Inc(11.27) Azm(348.14) TVD(2373.76) VS(111.91) N/-S(383.34) E/-W(-70.27)
#29 MD(2504.00) Inc(12.80) Azm(353.16) TVD(2461.77) VS(116.93) N/-S(401.92) E/-W(-73.27)
#30 MD(2594.00) Inc(12.90) Azm(351.62) TVD(2549.50) VS(121.76) N/-S(421.84) E/-W(-75.93)
#31 MD(2683.00) Inc(12.81) Azm(350.56) TVD(2636.26) VS(126.96) N/-S(441.40) E/-W(-79.00)
#32 MD(2773.00) Inc(13.08) Azm(349.73) TVD(2723.98) VS(132.57) N/-S(461.26) E/-W(-82.45)
#33 MD(2862.00) Inc(12.86) Azm(348.76) TVD(2810.71) VS(138.42) N/-S(480.89) E/-W(-86.17)
#34 MD(2952.00) Inc(12.06) Azm(348.67) TVD(2898.59) VS(144.29) N/-S(499.93) E/-W(-89.97)
#35 MD(3041.00) Inc(11.53) Azm(348.58) TVD(2985.71) VS(149.81) N/-S(517.76) E/-W(-93.56)
#36 MD(3131.00) Inc(12.73) Azm(349.24) TVD(3073.70) VS(155.46) N/-S(536.32) E/-W(-97.19)
#37 MD(3220.00) Inc(10.52) Azm(344.97) TVD(3160.87) VS(161.29) N/-S(553.81) E/-W(-101.13)
#38 MD(3309.00) Inc(11.40) Azm(351.80) TVD(3248.25) VS(166.45) N/-S(570.35) E/-W(-104.49)
#39 MD(3399.00) Inc(12.90) Azm(354.79) TVD(3336.23) VS(170.68) N/-S(589.17) E/-W(-106.67)
#40 MD(3488.00) Inc(13.08) Azm(350.12) TVD(3422.95) VS(175.47) N/-S(608.99) E/-W(-109.30)
#41 MD(3578.00) Inc(11.58) Azm(349.95) TVD(3510.87) VS(180.85) N/-S(627.91) E/-W(-112.63)
#42 MD(3667.00) Inc(13.08) Azm(346.77) TVD(3597.82) VS(186.73) N/-S(646.51) E/-W(-116.49)
#43 MD(3757.00) Inc(14.01) Azm(347.70) TVD(3685.32) VS(193.61) N/-S(667.07) E/-W(-121.14)
#44 MD(3846.00) Inc(14.10) Azm(347.50) TVD(3771.65) VS(200.47) N/-S(688.20) E/-W(-125.71)
#45 MD(3936.00) Inc(14.01) Azm(347.30) TVD(3858.96) VS(207.47) N/-S(709.55) E/-W(-130.40)
#46 MD(4025.00) Inc(13.65) Azm(346.69) TVD(3945.38) VS(214.50) N/-S(730.28) E/-W(-135.18)
#47 MD(4114.00) Inc(11.71) Azm(345.32) TVD(4032.20) VS(221.26) N/-S(749.23) E/-W(-139.89)
#48 MD(4204.00) Inc(12.46) Azm(346.60) TVD(4120.21) VS(227.81) N/-S(767.51) E/-W(-144.46)
#49 MD(4293.00) Inc(11.67) Azm(346.86) TVD(4207.24) VS(234.04) N/-S(785.62) E/-W(-148.73)
#50 MD(4383.00) Inc(12.42) Azm(351.00) TVD(4295.26) VS(239.62) N/-S(804.04) E/-W(-152.31)
#51 MD(4473.00) Inc(11.75) Azm(351.27) TVD(4383.27) VS(244.55) N/-S(822.66) E/-W(-155.21)
#52 MD(4562.00) Inc(11.98) Azm(353.08) TVD(4470.36) VS(249.01) N/-S(840.79) E/-W(-157.70)
#53 MD(4652.00) Inc(10.83) Azm(352.06) TVD(4558.59) VS(253.23) N/-S(858.44) E/-W(-160.00)
#54 MD(4740.00) Inc(12.77) Azm(349.15) TVD(4644.72) VS(258.13) N/-S(876.18) E/-W(-162.97)
#55 MD(4829.00) Inc(12.37) Azm(350.17) TVD(4731.59) VS(263.68) N/-S(895.23) E/-W(-166.45)
#56 MD(4919.00) Inc(11.09) Azm(355.76) TVD(4819.71) VS(267.94) N/-S(913.36) E/-W(-168.73)
#57 MD(5009.00) Inc(12.15) Azm(352.55) TVD(4907.87) VS(271.78) N/-S(931.39) E/-W(-170.60)
#58 MD(5098.00) Inc(13.30) Azm(342.81) TVD(4994.69) VS(278.08) N/-S(950.46) E/-W(-174.84)
#59 MD(5188.00) Inc(10.65) Azm(336.11) TVD(5082.73) VS(286.40) N/-S(967.95) E/-W(-181.27)

#60 MD(5278.00) Inc(10.08) Azm(342.50) TVD(5171.26) VS(293.76) N/-S(983.07) E/-W(-187.01)
#61 MD(5367.00) Inc(11.36) Azm(342.85) TVD(5258.71) VS(300.39) N/-S(998.87) E/-W(-191.94)
#62 MD(5457.00) Inc(14.10) Azm(348.76) TVD(5346.49) VS(307.22) N/-S(1018.10) E/-W(-196.69)
#63 MD(5547.00) Inc(13.43) Azm(350.26) TVD(5433.90) VS(313.41) N/-S(1039.15) E/-W(-200.59)
#64 MD(5637.00) Inc(10.65) Azm(349.86) TVD(5521.92) VS(318.65) N/-S(1057.65) E/-W(-203.83)
#65 MD(5727.00) Inc(12.02) Azm(348.32) TVD(5610.16) VS(323.90) N/-S(1075.01) E/-W(-207.19)
#66 MD(5816.00) Inc(14.54) Azm(349.46) TVD(5696.77) VS(330.00) N/-S(1095.07) E/-W(-211.11)
#67 MD(5905.00) Inc(12.15) Azm(349.11) TVD(5783.36) VS(336.00) N/-S(1115.26) E/-W(-214.92)
#68 MD(5995.00) Inc(12.73) Azm(349.11) TVD(5871.25) VS(341.73) N/-S(1134.29) E/-W(-218.58)
#69 MD(6084.00) Inc(13.35) Azm(349.15) TVD(5957.95) VS(347.66) N/-S(1154.02) E/-W(-222.37)
#70 MD(6174.00) Inc(12.02) Azm(346.29) TVD(6045.76) VS(353.93) N/-S(1173.33) E/-W(-226.55)
#71 MD(6264.00) Inc(13.39) Azm(345.54) TVD(6133.55) VS(360.83) N/-S(1192.52) E/-W(-231.37)
#72 MD(6353.00) Inc(14.10) Azm(344.92) TVD(6220.00) VS(368.44) N/-S(1212.97) E/-W(-236.76)
#73 MD(6443.00) Inc(14.80) Azm(339.59) TVD(6307.16) VS(377.60) N/-S(1234.33) E/-W(-243.63)
#74 MD(6532.00) Inc(21.03) Azm(328.44) TVD(6391.82) VS(392.53) N/-S(1258.62) E/-W(-255.96)
#75 MD(6622.00) Inc(26.29) Azm(313.28) TVD(6474.31) VS(418.41) N/-S(1286.09) E/-W(-278.96)
#76 MD(6711.00) Inc(30.76) Azm(296.49) TVD(6552.61) VS(455.59) N/-S(1309.80) E/-W(-313.76)
#77 MD(6801.00) Inc(33.32) Azm(282.44) TVD(6629.00) VS(501.84) N/-S(1325.42) E/-W(-358.56)
#78 MD(6890.00) Inc(39.95) Azm(279.09) TVD(6700.39) VS(554.75) N/-S(1335.21) E/-W(-410.71)
#79 MD(6980.00) Inc(46.13) Azm(277.06) TVD(6766.14) VS(616.11) N/-S(1343.77) E/-W(-471.50)
#80 MD(7069.00) Inc(54.00) Azm(275.87) TVD(6823.22) VS(684.30) N/-S(1351.41) E/-W(-539.26)
#81 MD(7159.00) Inc(60.27) Azm(275.52) TVD(6872.04) VS(759.85) N/-S(1358.90) E/-W(-614.45)
#82 MD(7248.00) Inc(68.54) Azm(275.74) TVD(6910.45) VS(840.04) N/-S(1366.77) E/-W(-694.26)
#83 MD(7337.00) Inc(76.98) Azm(274.42) TVD(6936.81) VS(924.95) N/-S(1374.27) E/-W(-778.85)
#84 MD(7426.00) Inc(85.90) Azm(272.21) TVD(6950.04) VS(1012.74) N/-S(1379.33) E/-W(-866.61)
#85 MD(7516.00) Inc(88.86) Azm(270.63) TVD(6954.16) VS(1102.31) N/-S(1381.56) E/-W(-956.48)
#86 MD(7606.00) Inc(90.41) Azm(270.18) TVD(6954.73) VS(1191.83) N/-S(1382.19) E/-W(-1046.47)
#87 MD(7692.00) Inc(91.12) Azm(269.92) TVD(6953.58) VS(1277.31) N/-S(1382.27) E/-W(-1132.46)
#88 MD(7782.00) Inc(91.12) Azm(269.57) TVD(6951.82) VS(1366.70) N/-S(1381.87) E/-W(-1222.45)
#89 MD(7871.00) Inc(90.28) Azm(269.66) TVD(6950.74) VS(1455.09) N/-S(1381.27) E/-W(-1311.44)
#90 MD(7960.00) Inc(90.10) Azm(269.57) TVD(6950.44) VS(1543.48) N/-S(1380.67) E/-W(-1400.43)
#91 MD(8049.00) Inc(89.70) Azm(270.10) TVD(6950.60) VS(1631.92) N/-S(1380.42) E/-W(-1489.43)
#92 MD(8139.00) Inc(89.53) Azm(269.52) TVD(6951.20) VS(1721.34) N/-S(1380.12) E/-W(-1579.43)
#93 MD(8228.00) Inc(89.93) Azm(269.83) TVD(6951.62) VS(1809.74) N/-S(1379.61) E/-W(-1668.43)
#94 MD(8317.00) Inc(89.62) Azm(269.52) TVD(6951.97) VS(1898.15) N/-S(1379.11) E/-W(-1757.43)
#95 MD(8406.00) Inc(89.57) Azm(270.14) TVD(6952.60) VS(1986.58) N/-S(1378.84) E/-W(-1846.42)
#96 MD(8495.00) Inc(89.44) Azm(270.10) TVD(6953.37) VS(2075.06) N/-S(1379.03) E/-W(-1935.42)
#97 MD(8584.00) Inc(89.17) Azm(270.14) TVD(6954.45) VS(2163.53) N/-S(1379.22) E/-W(-2024.41)
#98 MD(8674.00) Inc(89.04) Azm(270.23) TVD(6955.85) VS(2253.01) N/-S(1379.51) E/-W(-2114.40)
#99 MD(8763.00) Inc(89.62) Azm(271.33) TVD(6956.90) VS(2341.59) N/-S(1380.72) E/-W(-2203.38)

8810
8820
8830
8840
8850
#100 MD(8853.00) Inc(89.17) Azm(269.88) TVD(6957.85) VS(2431.14) N/-S(1381.67) E/-W(-2293.37)
8860
8870
8880
8890
8900
8910
8920
8930
8940
#101 MD(8942.00) Inc(88.95) Azm(269.70) TVD(6959.31) VS(2519.55) N/-S(1381.34) E/-W(-2382.36)
8950
8960
8970
8980
8990
9000
9010
9020
9030
#102 MD(9032.00) Inc(89.17) Azm(270.01) TVD(6960.78) VS(2608.97) N/-S(1381.12) E/-W(-2472.35)
9040
9050
9060
9070
9080
9090
9100
9110
9120
#103 MD(9121.00) Inc(89.48) Azm(269.92) TVD(6961.83) VS(2697.42) N/-S(1381.06) E/-W(-2561.34)
9130
9140
9150
9160
9170
9180
9190
9200
9210
#104 MD(9210.00) Inc(89.53) Azm(269.83) TVD(6962.60) VS(2785.86) N/-S(1380.87) E/-W(-2650.34)
9220
9230
9240
9250
9260
9270
9280
9290
9300
#105 MD(9300.00) Inc(89.53) Azm(270.58) TVD(6963.34) VS(2875.35) N/-S(1381.19) E/-W(-2740.33)
9310
9320
9330
9340
9350
9360
9370
9380
#106 MD(9389.00) Inc(89.44) Azm(270.54) TVD(6964.14) VS(2963.90) N/-S(1382.06) E/-W(-2829.32)
9390
9400
9410
9420
9430
9440
9450
9460
9470
#107 MD(9478.00) Inc(89.57) Azm(270.89) TVD(6964.91) VS(3052.47) N/-S(1383.17) E/-W(-2918.31)
9480
9490
9500
9510
9520
9530
9540
9550
9560
#108 MD(9567.00) Inc(89.57) Azm(271.11) TVD(6965.57) VS(3141.09) N/-S(1384.72) E/-W(-3007.30)
9570
9580
9590
9600
9610
9620
9630
9640
9650
#109 MD(9657.00) Inc(89.57) Azm(270.98) TVD(6966.25) VS(3230.71) N/-S(1386.36) E/-W(-3097.28)
9660
9670
9680
9690
9700
9710
9720
9730
9740
#110 MD(9746.00) Inc(89.57) Azm(271.11) TVD(6966.92) VS(3319.33) N/-S(1387.99) E/-W(-3186.26)
9750
9760
9770
9780
9790
9800
9810
9820
9830
#111 MD(9835.00) Inc(89.75) Azm(270.89) TVD(6967.45) VS(3407.95) N/-S(1389.54) E/-W(-3275.25)
9840
9850
9860
9870
9880
9890
9900
9910
9920
#112 MD(9925.00) Inc(89.93) Azm(271.64) TVD(6967.70) VS(3497.60) N/-S(1391.53) E/-W(-3365.23)
9930
9940
9950
9960
9970
9980
9990
10000
10010
#113 MD(10014.00) Inc(89.62) Azm(271.46) TVD(6968.05) VS(3586.29) N/-S(1393.93) E/-W(-3454.19)
10020
10030
10040
10050
10060
10070
10080
10090
10100
#114 MD(10104.00) Inc(89.66) Azm(270.85) TVD(6968.61) VS(3675.93) N/-S(1395.75) E/-W(-3544.17)
10110
10120
10130
10140
10150
10160
10170
10180
10190
#115 MD(10194.00) Inc(89.48) Azm(270.45) TVD(6969.29) VS(3765.49) N/-S(1396.77) E/-W(-3634.16)
10200
10210
10220
10230
10240
10250
10260
10270
10280
#116 MD(10283.00) Inc(88.95) Azm(270.45) TVD(6970.51) VS(3854.02) N/-S(1397.47) E/-W(-3723.15)
10290
10300
10310
10320
10330
10340
10350
10360
10370
#117 MD(10372.00) Inc(88.86) Azm(269.92) TVD(6972.21) VS(3942.49) N/-S(1397.76) E/-W(-3812.13)
10380
10390
10400
10410
10420
10430
10440
10450
10460
#118 MD(10462.00) Inc(88.86) Azm(270.27) TVD(6974.00) VS(4031.95) N/-S(1397.90) E/-W(-3902.12)
10470
10480
10490
10500
10510
10520
10530
10540
10550
#119 MD(10551.00) Inc(89.09) Azm(270.71) TVD(6975.59) VS(4120.48) N/-S(1398.67) E/-W(-3991.10)
10560
10570
10580
10590
10600
10610
10620
10630
10640
#120 MD(10641.00) Inc(89.17) Azm(270.80) TVD(6976.96) VS(4210.05) N/-S(1399.85) E/-W(-4081.08)
10650
10660
10670
10680
10690
10700
10710
10720
10730
#121 MD(10730.00) Inc(88.51) Azm(270.18) TVD(6978.76) VS(4298.57) N/-S(1400.61) E/-W(-4170.06)
10740
10750
10760
10770
10780
10790
10800
10810
10820
#122 MD(10820.00) Inc(88.51) Azm(269.39) TVD(6981.10) VS(4387.96) N/-S(1400.28) E/-W(-4260.03)
10830
10840
10850
10860
10870
10880
10890
10900
#123 MD(10909.00) Inc(88.47) Azm(269.57) TVD(6983.44) VS(4476.30) N/-S(1399.47) E/-W(-4348.99)
10910
10920
10930
10940
10950
10960
10970
10980
10990
11000
#124 MD(11000.00) Inc(88.56) Azm(269.83) TVD(6985.80) VS(4566.66) N/-S(1398.99) E/-W(-4439.96)
11010
11020
11030
11040
11050
11060
11070
11080
#125 MD(11089.00) Inc(88.47) Azm(269.66) TVD(6988.11) VS(4655.05) N/-S(1398.60) E/-W(-4528.93)
11090
11100
11110
11120
11130
11140
11150
11160
11170
#126 MD(11178.00) Inc(88.69) Azm(270.10) TVD(6990.31) VS(4743.47) N/-S(1398.41) E/-W(-4617.90)
11180
11190
11200
11210
11220
11230
11240
11250
11260
#127 MD(11268.00) Inc(88.69) Azm(269.44) TVD(6992.37) VS(4832.86) N/-S(1398.05) E/-W(-4707.88)
11270
11280
11290
11300
11310
11320
11330
11340
11350
#128 MD(11358.00) Inc(88.51) Azm(269.44) TVD(6994.57) VS(4922.19) N/-S(1397.17) E/-W(-4797.85)
11360
11370
11380
11390
11400
11410
11420
11430
11440
#129 MD(11447.00) Inc(88.38) Azm(269.04) TVD(6996.99) VS(5010.48) N/-S(1395.99) E/-W(-4886.80)
11450
11460
11470
11480
11490
11500
11510
11520
11530
#130 MD(11537.00) Inc(89.17) Azm(269.48) TVD(6998.91) VS(5099.78) N/-S(1394.83) E/-W(-4976.78)
11540
11550
11560
11570
11580
11590
11600
11610
11620
#131 MD(11626.00) Inc(89.13) Azm(269.83) TVD(7000.23) VS(5188.17) N/-S(1394.29) E/-W(-5065.76)
11630
11640
11650
11660
11670
11680
11690
11700
11710
#132 MD(11715.00) Inc(89.00) Azm(269.26) TVD(7001.68) VS(5276.54) N/-S(1393.58) E/-W(-5154.75)
11720
11730
11740
11750
11760
11770
11780
11790
11800
#133 MD(11805.00) Inc(89.31) Azm(269.17) TVD(7003.01) VS(5365.85) N/-S(1392.35) E/-W(-5244.73)
11810
11820
11830
11840
11850
11860
11870
11880
11890
#134 MD(11894.00) Inc(89.57) Azm(269.61) TVD(7003.88) VS(5454.19) N/-S(1391.40) E/-W(-5333.72)
11900
11910
11920
11930
11940
11950
11960
11970
11980
#135 MD(11983.00) Inc(89.53) Azm(269.44) TVD(7004.58) VS(5542.57) N/-S(1390.67) E/-W(-5422.71)
11990
12000
12010
12020
12030
12040
12050
12060
12070
#136 MD(12073.00) Inc(90.15) Azm(270.14) TVD(7004.83) VS(5631.99) N/-S(1390.34) E/-W(-5512.71)
12080
12090
12100
12110
12120
12130
12140
12150
12160
#137 MD(12162.00) Inc(90.19) Azm(270.18) TVD(7004.57) VS(5720.48) N/-S(1390.58) E/-W(-5601.71)
12170
12180
12190
12200
12210
12220
12230
12240
12250
#138 MD(12252.00) Inc(89.93) Azm(269.44) TVD(7004.47) VS(5809.90) N/-S(1390.29) E/-W(-5691.71)
12260
12270
12280
12290
12300
12310
12320
12330
12340
#139 MD(12341.00) Inc(90.06) Azm(269.39) TVD(7004.48) VS(5898.26) N/-S(1389.38) E/-W(-5780.71)
12350
12360
12370
12380
12390

12410
12420
12430
12440
12450
12460
12470
12480
12490
12500
12510
12520
12530
12540
12550
12560
12570
12580
12590
12600
12610
12620
12630
12640
12650
12660
12670
12680
12690
12700
12710
12720
12730
12740
12750
12760
12770
12780
12790
12800
12810
12820
12830
12840
12850
12860
12870
12880
12890
12900
12910
12920
12930
12940
12950
12960
12970
12980
12990
13000
13010
13020
13030
13040
13050
13060
13070
13080
13090
13100
13110
13120
13130
13140
13150
13160
13170
13180
13190
13200
13210
13220
13230
13240
13250
13260
13270
13280
13290
13300
13310
13320
13330
13340
13350
13360
13370
13380
13390
13400
13410
13420
13430
13440
13450
13460
13470
13480
13490
13500
13510
13520
13530
13540
13550
13560
13570
13580
13590
13600
13610
13620
13630
13640
13650
13660
13670
13680
13690
13700
13710
13720
13730
13740
13750
13760
13770
13780
13790
13800
13810
13820
13830
13840
13850
13860
13870
13880
13890
13900
13910
13920
13930
13940
13950
13960
13970
13980
13990
14000
14010
14020
14030
14040
14050
14060
14070
14080
14090
14100
14110
14120
14130
14140
14150
14160
14170
14180
14190
14200
14210
14220
14230
14240
14250
14260
14270
14280
14290
14300
14310
14320
14330
14340
14350
14360
14370
14380
14390
14400
14410
14420
14430
14440
14450
14460
14470
14480
14490
14500
14510
14520
14530
14540
14550
14560
14570
14580
14590
14600
14610
14620
14630
14640
14650
14660
14670
14680
14690
14700
14710
14720
14730
14740
14750
14760
14770
14780
14790
14800
14810
14820
14830
14840
14850
14860
14870
14880
14890
14900
14910
14920
14930
14940
14950
14960
14970
14980
14990
15000
15010
15020
15030
15040
15050
15060
15070
15080
15090
15100
15110
15120
15130
15140
15150
15160
15170
15180
15190
15200
15210
15220
15230
15240
15250
15260
15270
15280
15290
15300
15310
15320
15330
15340
15350
15360
15370
15380
15390
15400
15410
15420
15430
15440
15450
15460
15470
15480
15490
15500
15510
15520
15530
15540
15550
15560
15570
15580
15590
15600
15610
15620
15630
15640
15650
15660
15670
15680
15690
15700
15710
15720
15730
15740
15750
15760
15770
15780
15790
15800
15810
15820
15830
15840
15850
15860
15870
15880
15890
15900
15910
15920
15930
15940
15950
15960
15970
15980
15990
#140 MD(12430.00) Inc(89.53) Azm(268.95) TVD(7004.80)
VS(5986.57) N/-S(1388.09) E/-W(-5869.70)
#141 MD(12520.00) Inc(90.19) Azm(270.45) TVD(7005.02)
VS(6075.97) N/-S(1387.62) E/-W(-5959.69)
#142 MD(12609.00) Inc(89.88) Azm(269.17) TVD(7004.96)
VS(6164.40) N/-S(1387.32) E/-W(-6048.69)
#143 MD(12699.00) Inc(90.19) Azm(269.92) TVD(7004.91)
VS(6253.77) N/-S(1386.61) E/-W(-6138.69)
#144 MD(12783.00) Inc(90.19) Azm(269.13) TVD(7004.63)
VS(6337.18) N/-S(1385.91) E/-W(-6222.68)
#145 MD(12872.00) Inc(89.79) Azm(269.39) TVD(7004.65)
VS(6425.51) N/-S(1384.76) E/-W(-6311.67)
#146 MD(12962.00) Inc(90.19) Azm(269.61) TVD(7004.66)
VS(6514.88) N/-S(1383.98) E/-W(-6401.67)
#147 MD(13052.00) Inc(90.94) Azm(270.10) TVD(7003.77)
VS(6604.31) N/-S(1383.75) E/-W(-6491.66)
#148 MD(13141.00) Inc(90.06) Azm(269.88) TVD(7003.00)
VS(6692.76) N/-S(1383.73) E/-W(-6580.66)
#149 MD(13230.00) Inc(89.97) Azm(268.73) TVD(7002.97)
VS(6781.10) N/-S(1382.65) E/-W(-6669.65)
#150 MD(13320.00) Inc(89.97) Azm(269.83) TVD(7003.02)
VS(6870.42) N/-S(1381.52) E/-W(-6759.64)
#151 MD(13409.00) Inc(90.77) Azm(271.60) TVD(7002.45)
VS(6958.99) N/-S(1382.63) E/-W(-6848.63)
#152 MD(13499.00) Inc(90.72) Azm(271.90) TVD(7001.28)
VS(7048.70) N/-S(1385.38) E/-W(-6938.58)
#153 MD(13589.00) Inc(89.88) Azm(271.55) TVD(7000.81)
VS(7138.41) N/-S(1388.09) E/-W(-7028.54)
#154 MD(13679.00) Inc(90.23) Azm(271.15) TVD(7000.72)
VS(7228.08) N/-S(1390.21) E/-W(-7118.51)
#155 MD(13768.00) Inc(90.28) Azm(271.68) TVD(7000.32)
VS(7316.75) N/-S(1392.41) E/-W(-7207.48)
#156 MD(13858.00) Inc(90.23) Azm(271.29) TVD(6999.92)
VS(7406.43) N/-S(1394.74) E/-W(-7297.45)
#157 MD(13947.00) Inc(90.23) Azm(271.33) TVD(6999.56)
VS(7495.10) N/-S(1396.77) E/-W(-7386.43)
#158 MD(14037.00) Inc(90.01) Azm(271.51) TVD(6999.38)
VS(7584.77) N/-S(1399.01) E/-W(-7476.40)
#159 MD(14126.00) Inc(89.88) Azm(270.85) TVD(6999.46)
VS(7673.41) N/-S(1400.84) E/-W(-7565.38)
#160 MD(14216.00) Inc(90.32) Azm(271.46) TVD(6999.30)
VS(7763.05) N/-S(1402.65) E/-W(-7655.36)
#161 MD(14305.00) Inc(89.97) Azm(271.15) TVD(6999.08)
VS(7851.71) N/-S(1404.68) E/-W(-7744.34)
#162 MD(14395.00) Inc(90.10) Azm(271.15) TVD(6999.02)
VS(7941.35) N/-S(1406.49) E/-W(-7834.32)
#163 MD(14484.00) Inc(89.93) Azm(270.63) TVD(6999.00)
VS(8029.95) N/-S(1407.87) E/-W(-7923.31)
#164 MD(14573.00) Inc(89.84) Azm(270.71) TVD(6999.18)
VS(8118.52) N/-S(1408.91) E/-W(-8012.30)
#165 MD(14663.00) Inc(90.10) Azm(271.55) TVD(6999.23)
VS(8208.16) N/-S(1410.68) E/-W(-8102.28)
#166 MD(14753.00) Inc(89.88) Azm(270.85) TVD(6999.24)
VS(8297.80) N/-S(1412.57) E/-W(-8192.26)
#167 MD(14842.00) Inc(90.23) Azm(271.07) TVD(6999.16)
VS(8386.41) N/-S(1414.06) E/-W(-8281.25)
#168 MD(14932.00) Inc(91.21) Azm(272.52) TVD(6998.03)
VS(8476.12) N/-S(1416.88) E/-W(-8371.20)
#169 MD(15021.00) Inc(90.59) Azm(273.14) TVD(6996.63)
VS(8564.95) N/-S(1421.27) E/-W(-8460.08)
#170 MD(15110.00) Inc(89.93) Azm(271.29) TVD(6996.22)
VS(8653.72) N/-S(1424.71) E/-W(-8549.00)
#171 MD(15199.00) Inc(89.84) Azm(270.54) TVD(6996.40)
VS(8742.32) N/-S(1426.13) E/-W(-8637.99)
#172 MD(15289.00) Inc(90.19) Azm(271.33) TVD(6996.38)
VS(8831.93) N/-S(1427.60) E/-W(-8727.98)
#173 MD(15378.00) Inc(90.77) Azm(272.96) TVD(6995.63)
VS(8920.69) N/-S(1430.93) E/-W(-8816.91)
#174 MD(15467.00) Inc(90.01) Azm(271.55) TVD(6995.03)
VS(9009.46) N/-S(1434.43) E/-W(-8905.84)
#175 MD(15557.00) Inc(89.84) Azm(270.98) TVD(6995.15)
VS(9099.11) N/-S(1436.42) E/-W(-8995.81)
#176 MD(15647.00) Inc(89.70) Azm(270.54) TVD(6995.51)
VS(9188.69) N/-S(1437.61) E/-W(-9085.81)
#177 MD(15736.00) Inc(89.93) Azm(270.67) TVD(6995.79)
VS(9277.25) N/-S(1438.55) E/-W(-9174.80)
#178 MD(15825.00) Inc(90.41) Azm(270.54) TVD(6995.53)
VS(9365.81) N/-S(1439.49) E/-W(-9263.79)
#179 MD(15915.00) Inc(90.01) Azm(271.11) TVD(6995.20)
VS(9455.40) N/-S(1440.79) E/-W(-9353.78)

16010
16020
16030
16040
16050
16060
16070
16080
16090
16100
16110
16120
16130
16140
16150
16160
16170
16180
16190
16200
16210
16220
16230
16240
16250
16260
16270
16280
16290
16300
16310
16320
16330
16340
16350
16360
16370
16380
16390
16400
16410
16420
16430
16440
16450
16460
16470
16480
16490
16500
16510
16520
16530
16540
16550
16560
16570
16580
16590
16600
16610
16620
16630
16640
16650
16660
16670
16680
16690
16700
16710
16720
16730
16740
16750
16760
16770
16780
16790
16800
16810
16820
16830
16840
16850
16860
16870
16880
16890
16900
16910
16920
16930
16940
16950
16960
16970
16980
16990
17000
17010
17020
17030
17040
17050
17060
17070
17080
17090
17100
17110
17120
17130
17140
17150
17160
17170
17180
17190
17200
17210
17220
17230
17240
17250
17260
17270
17280
17290
17300
17310
17320
17330
17340
17350
17360
17370
17380
17390
17400
17410
17420
17430
17440
17450
17460
17470
17480
17490
17500
17510
17520
17530
17540
17550
17560
17570
17580
17590
17600
17610
17620
17630
17640
17650
17660
17670
17680
17690
17700
17710
17720
17730
17740
17750
17760
17770
17780
17790
17800
17810
17820
17830
17840
17850
17860
17870
17880
17890
17900
17910
17920
17930
17940
17950
17960
17970
17980
17990
18000
18010
18020
18030
18040
18050
18060
18070
18080
18090
18100
18110
18120
18130
18140
18150
18160
18170
18180
18190
18200
18210
18220
18230
18240
18250
18260
18270
18280
18290
18300
18310
18320
18330
18340
18350
18360
18370
18380
18390
18400
18410
18420
18430
18440
18450
18460
18470
18480
18490
18500
18510
18520
18530
18540
18550
18560
18570
18580
18590
18600
18610
18620
18630
18640
18650
18660
18670
18680
18690
18700
18710
18720
18730
18740
18750
18760
18770
18780
18790
18800
18810
18820
18830
18840
18850
18860
18870
18880
18890
18900
18910
18920
18930
18940
18950
18960
18970
18980
18990
19000
19010
19020
19030
19040
19050
19060
19070
19080
19090
19100
19110
19120
19130
19140
19150
19160
19170
19180
19190
19200
19210
19220
19230
19240
19250
19260
19270
19280
19290
19300
19310
19320
19330
19340
19350
19360
19370
19380
19390
19400
19410
19420
19430
19440
19450
19460
19470
19480
19490
19500
19510
19520
19530
19540
19550
19560
19570
19580
19590
#180 MD(16004.00) Inc(89.31) Azm(270.18) TVD(6995.73)
VS(9543.96) N/-S(1441.79) E/-W(-9442.78)
#181 MD(16094.00) Inc(89.53) Azm(271.02) TVD(6996.64)
VS(9633.51) N/-S(1442.73) E/-W(-9532.76)
#182 MD(16183.00) Inc(89.26) Azm(270.89) TVD(6997.58)
VS(9722.12) N/-S(1444.22) E/-W(-9621.75)
#183 MD(16273.00) Inc(89.35) Azm(270.63) TVD(6998.67)
VS(9811.69) N/-S(1445.41) E/-W(-9711.73)
#184 MD(16362.00) Inc(89.44) Azm(270.49) TVD(6999.61)
VS(9900.24) N/-S(1446.28) E/-W(-9800.72)
#185 MD(16452.00) Inc(89.75) Azm(271.29) TVD(7000.25)
VS(9989.84) N/-S(1447.68) E/-W(-9890.71)
#186 MD(16542.00) Inc(89.53) Azm(271.51) TVD(7000.81)
VS(10079.51) N/-S(1449.88) E/-W(-9980.68)
#187 MD(16632.00) Inc(89.93) Azm(271.90) TVD(7001.24)
VS(10169.22) N/-S(1452.56) E/-W(-10070.64)
#188 MD(16721.00) Inc(90.32) Azm(271.90) TVD(7001.04)
VS(10257.96) N/-S(1455.51) E/-W(-10159.59)
#189 MD(16810.00) Inc(89.62) Azm(270.98) TVD(7001.09)
VS(10346.63) N/-S(1457.74) E/-W(-10248.56)
#190 MD(16899.00) Inc(89.31) Azm(270.98) TVD(7001.92)
VS(10435.25) N/-S(1459.26) E/-W(-10337.54)
#191 MD(16988.00) Inc(89.48) Azm(270.71) TVD(7002.86)
VS(10523.84) N/-S(1460.58) E/-W(-10426.53)
#192 MD(17078.00) Inc(89.31) Azm(270.85) TVD(7003.81)
VS(10613.42) N/-S(1461.80) E/-W(-10516.52)
#193 MD(17167.00) Inc(89.48) Azm(270.58) TVD(7004.75)
VS(10701.99) N/-S(1462.91) E/-W(-10605.50)
#194 MD(17256.00) Inc(89.22) Azm(270.71) TVD(7005.76)
VS(10790.55) N/-S(1463.91) E/-W(-10694.49)
#195 MD(17346.00) Inc(89.26) Azm(270.45) TVD(7006.95)
VS(10880.09) N/-S(1464.83) E/-W(-10784.48)
#196 MD(17435.00) Inc(89.35) Azm(270.27) TVD(7008.03)
VS(10968.61) N/-S(1465.38) E/-W(-10873.47)
#197 MD(17525.00) Inc(89.40) Azm(270.93) TVD(7009.01)
VS(11058.16) N/-S(1466.33) E/-W(-10963.46)
#198 MD(17615.00) Inc(89.53) Azm(271.33) TVD(7009.85)
VS(11147.79) N/-S(1468.10) E/-W(-11053.44)
#199 MD(17704.00) Inc(89.66) Azm(271.42) TVD(7010.48)
VS(11236.46) N/-S(1470.24) E/-W(-11142.41)
#200 MD(17794.00) Inc(89.40) Azm(270.63) TVD(7011.22)
VS(11326.07) N/-S(1471.85) E/-W(-11232.39)
#201 MD(17883.00) Inc(89.48) Azm(269.88) TVD(7012.09)
VS(11414.57) N/-S(1472.24) E/-W(-11321.39)
#202 MD(17972.00) Inc(89.88) Azm(269.57) TVD(7012.59)
VS(11502.99) N/-S(1471.82) E/-W(-11410.38)
#203 MD(18062.00) Inc(90.01) Azm(269.30) TVD(7012.68)
VS(11592.34) N/-S(1470.93) E/-W(-11500.38)
#204 MD(18151.00) Inc(90.10) Azm(267.98) TVD(7012.59)
VS(11680.54) N/-S(1468.82) E/-W(-11589.35)
#205 MD(18241.00) Inc(90.41) Azm(269.83) TVD(7012.19)
VS(11769.79) N/-S(1467.10) E/-W(-11679.33)
#206 MD(18330.00) Inc(90.06) Azm(269.52) TVD(7011.82)
VS(11858.19) N/-S(1466.59) E/-W(-11768.33)
#207 MD(18419.00) Inc(90.54) Azm(270.49) TVD(7011.36)
VS(11946.66) N/-S(1466.60) E/-W(-11857.33)
#208 MD(18509.00) Inc(89.75) Azm(268.20) TVD(7011.13)
VS(12035.99) N/-S(1465.57) E/-W(-11947.31)
#209 MD(18598.00) Inc(90.23) Azm(268.95) TVD(7011.15)
VS(12124.18) N/-S(1463.36) E/-W(-12036.29)
#210 MD(18687.00) Inc(90.23) Azm(270.45) TVD(7010.79)
VS(12212.58) N/-S(1462.89) E/-W(-12125.28)
#211 MD(18777.00) Inc(90.01) Azm(269.48) TVD(7010.60)
VS(12302.03) N/-S(1462.84) E/-W(-12215.28)
#212 MD(18866.00) Inc(90.01) Azm(269.00) TVD(7010.59)
VS(12390.36) N/-S(1461.66) E/-W(-12304.27)
#213 MD(18956.00) Inc(90.23) Azm(269.70) TVD(7010.40)
VS(12479.70) N/-S(1460.64) E/-W(-12394.26)
#214 MD(19046.00) Inc(90.01) Azm(269.13) TVD(7010.21)
VS(12569.05) N/-S(1459.72) E/-W(-12484.26)
#215 MD(19135.00) Inc(90.06) Azm(269.44) TVD(7010.15)
VS(12657.38) N/-S(1458.61) E/-W(-12573.25)
#216 MD(19225.00) Inc(89.84) Azm(268.69) TVD(7010.23)
VS(12746.66) N/-S(1457.14) E/-W(-12663.24)
#217 MD(19314.00) Inc(90.06) Azm(269.35) TVD(7010.31)
VS(12834.95) N/-S(1455.61) E/-W(-12752.23)
#218 MD(19404.00) Inc(90.15) Azm(269.39) TVD(7010.14)
VS(12924.29) N/-S(1454.63) E/-W(-12842.22)
#219 MD(19493.00) Inc(90.23) Azm(269.52) TVD(7009.85)
VS(13012.65) N/-S(1453.78) E/-W(-12931.22)
#220 MD(19583.00) Inc(90.06) Azm(269.44) TVD(7009.62)
VS(13102.02) N/-S(1452.96) E/-W(-13021.21)


19610
19620
19630
19640
19650
19660
19670
19680
19690
19700
Gamma
API
0
150
150
300
ROP
ft/hr
0
1000
1000
2000
Temperature
degF
0
300