Interchange B S22-30-20N

MD
5":100'

Company: Extraction Oil & Gas
Well Name: Interchange B S22-30-20N
API: 05-014-20851
County/Parish: Broomfield
State/Prov: Colorado
Country: US
Job #: RM-220486

Company: Extraction Oil & Gas
Well Name: Interchange B S22-30-20N
API: 05-014-20851
County/Parish: Broomfield
State or Prov: Colorado
Country: US
Job number: RM-220486
Field: DJ Basin
Rig Identification: Ensign 769
Survey Company: Total Directional Services
Company Man Joe Wallem / Danny Herrera
Company Man Manny Parras / Brent Moon
DD Days Brevin Williams
DD Nights Robert Dix
MWD Days Landon Cox
MWD Nights Clarke Van Oerle

VSD 163.88

Log measurements: Gamma
Depth measured from: 5234 ft
Maximum temperature: 231

	Depth	Date
Start:	1681 ft	5-8-2022
End:	12002 ft	5-11-2022

Casing	Depth	Size
Surface:	1681 ft	9 5/8"
Intermediate:		

Mud type: OBM
Density: 10.0
Viscosity: 61
Rm: **Rmf:** **Rmc:**

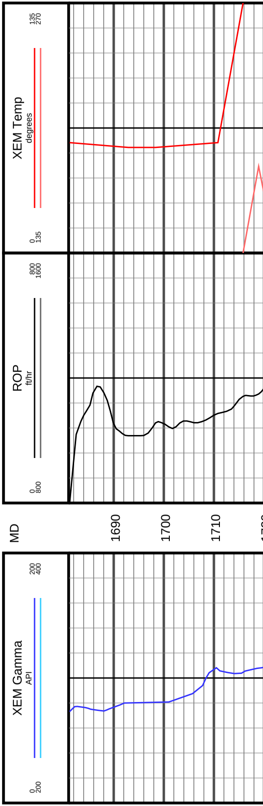
Elevations	
KB:	5234
DF:	28
GL:	5206

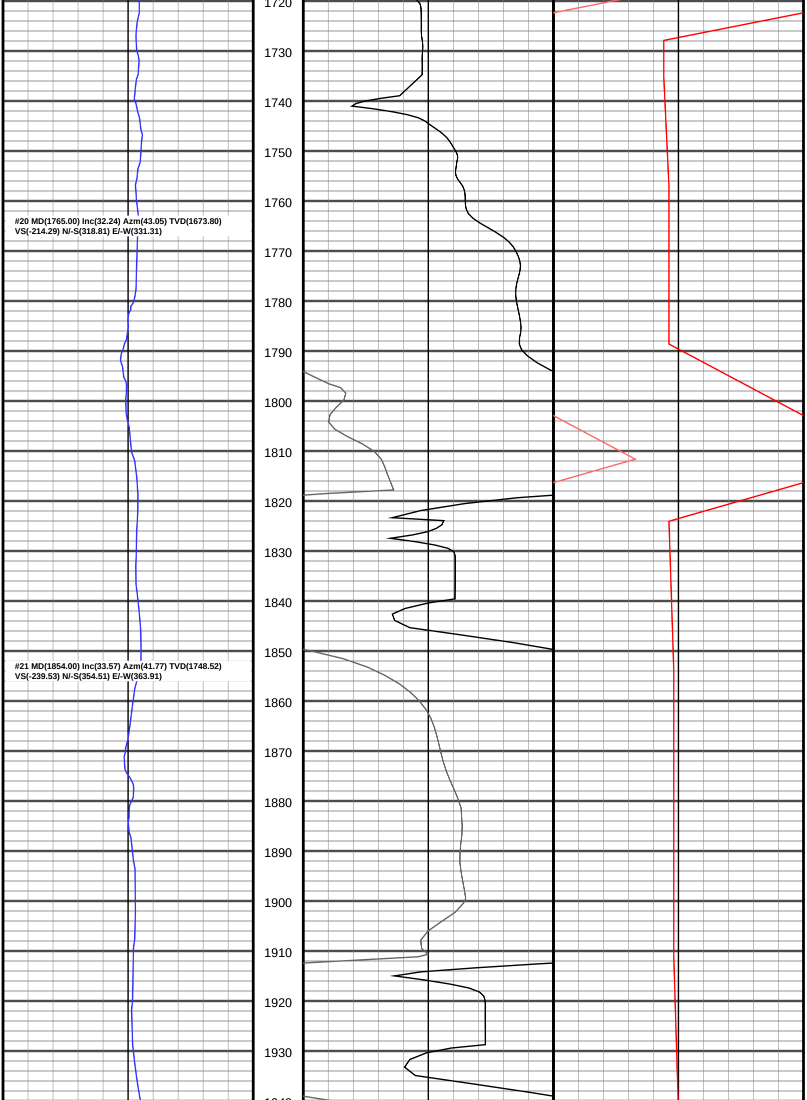
Run	Bit Size	Gamma Factor	Offsets		Depths		Dates	
			Gamma	Survey	Start	End	Start	End
1	8.75"	0.513	42.00 ft	63.00 ft	1681 ft	9419 ft	05-08-2022	05-10-2022
2	8.75"	0.513	43.00 ft	64.00 ft	9419 ft	12002 ft	05-10-2022	05-11-2022
3								
4								
5								
6								
7								
8								
9								
10								

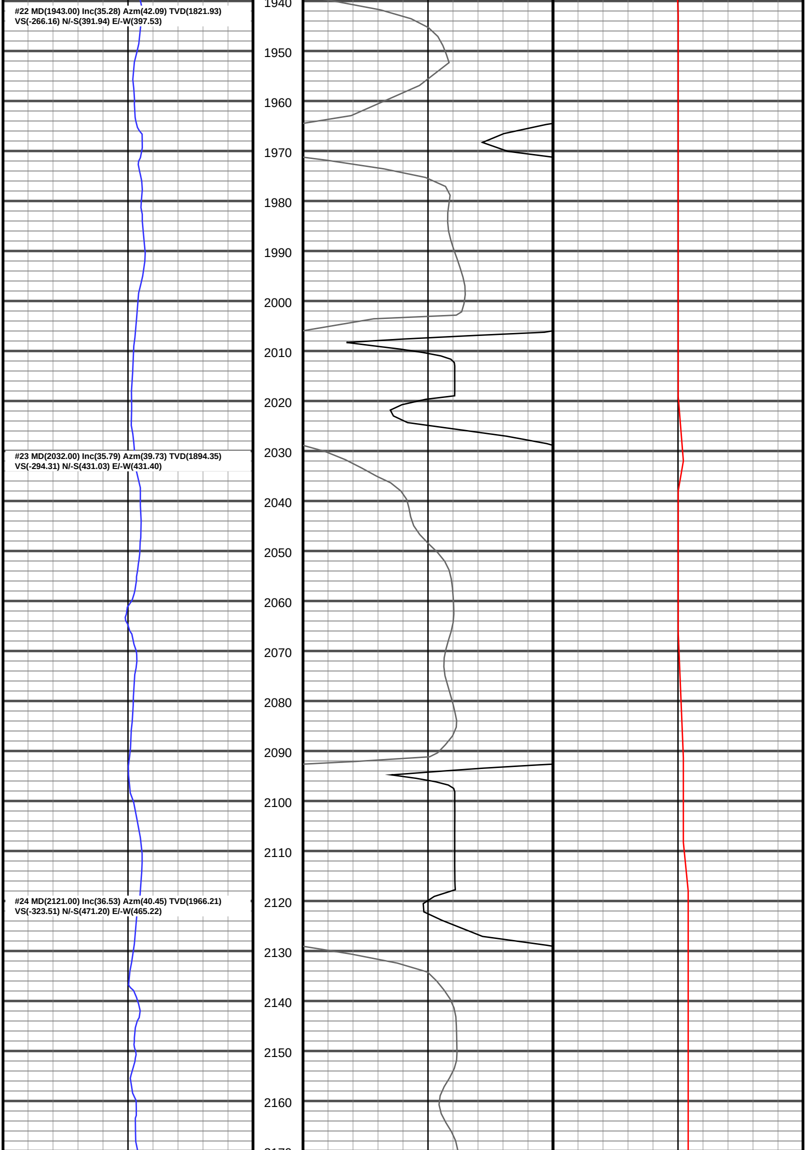
API# 05-014-20850 WELL: Interchange B S22-30-20N Type of Log:Gamma Logging started at 10:40 on 05/08/2022 Ending at 04:30 on 05/11/2022 Depth Relative to Rig Floor at 5234 Ft Elevation Logging Company: Total Directional Top of log: 1,681' Bottom of Log: 12,002'

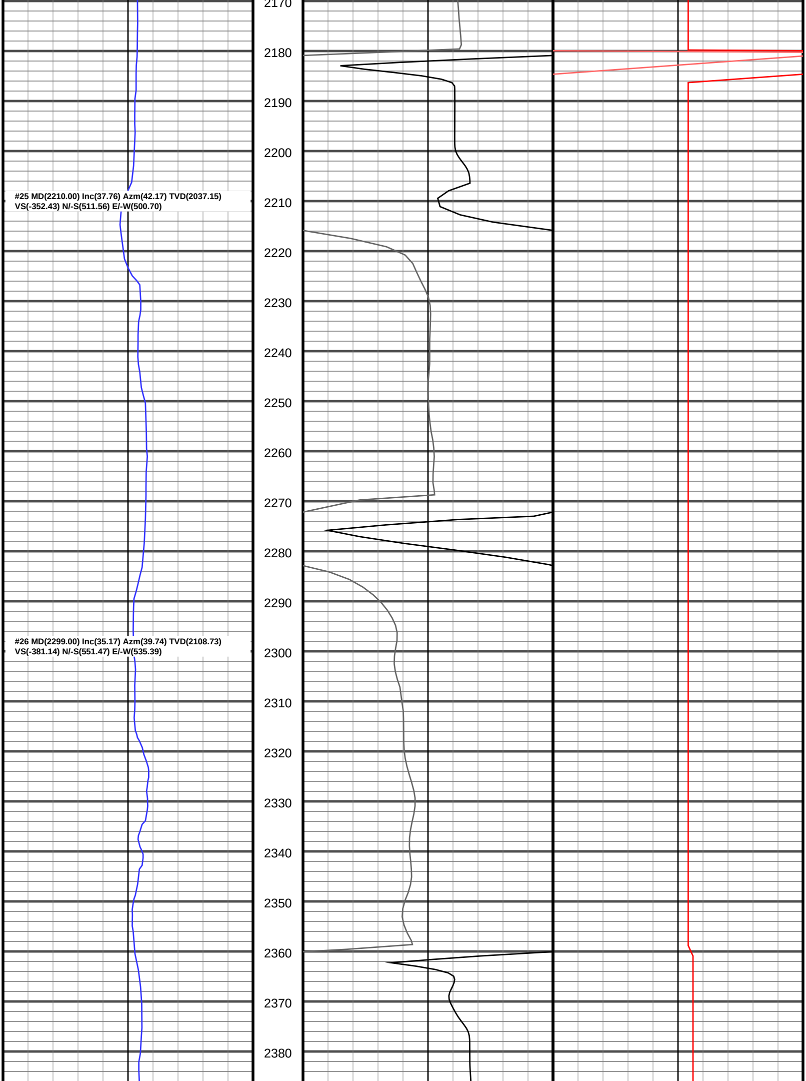
Total Directional Services uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.

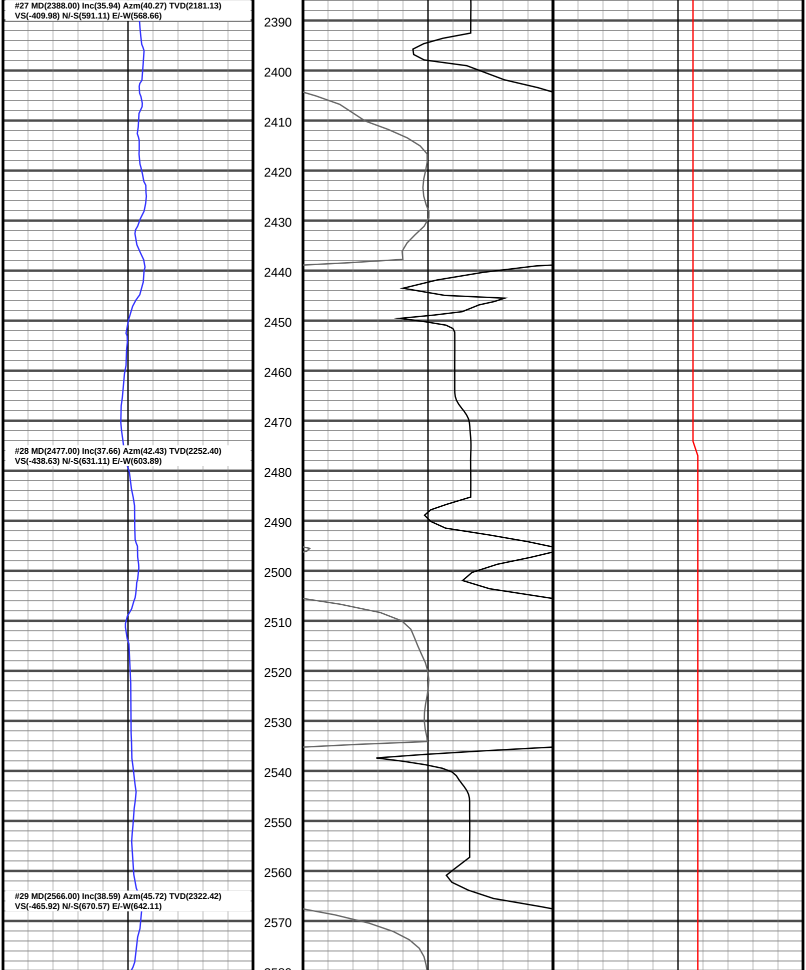
Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
11							
12							

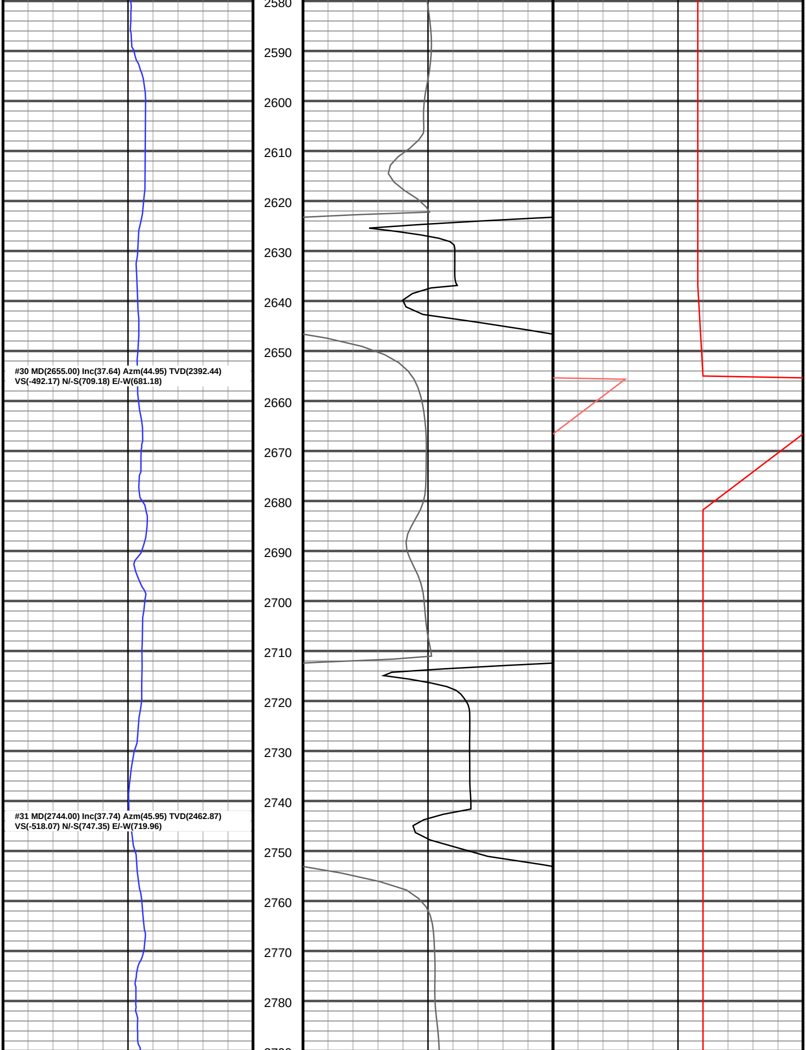


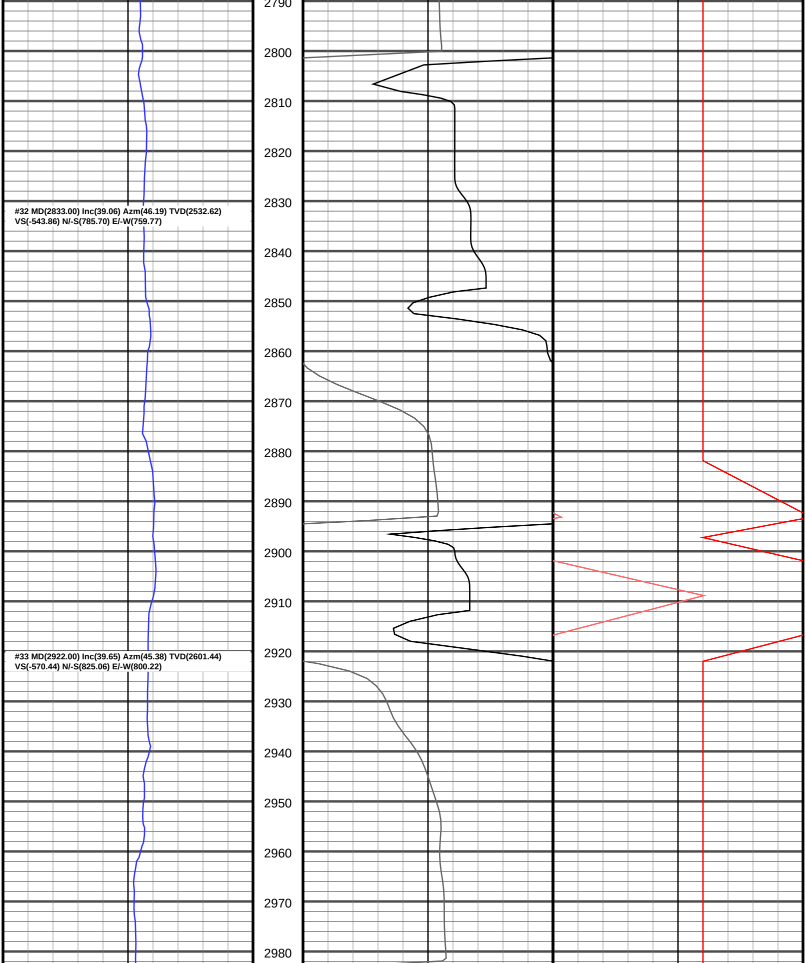


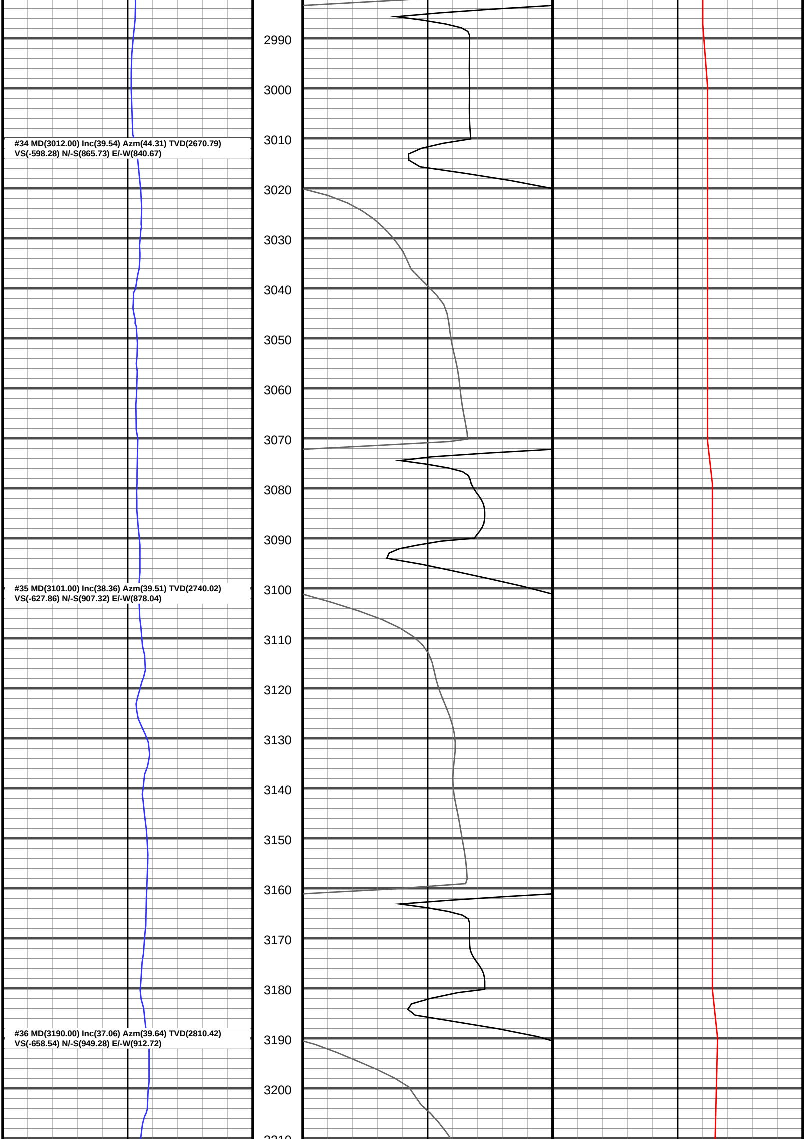


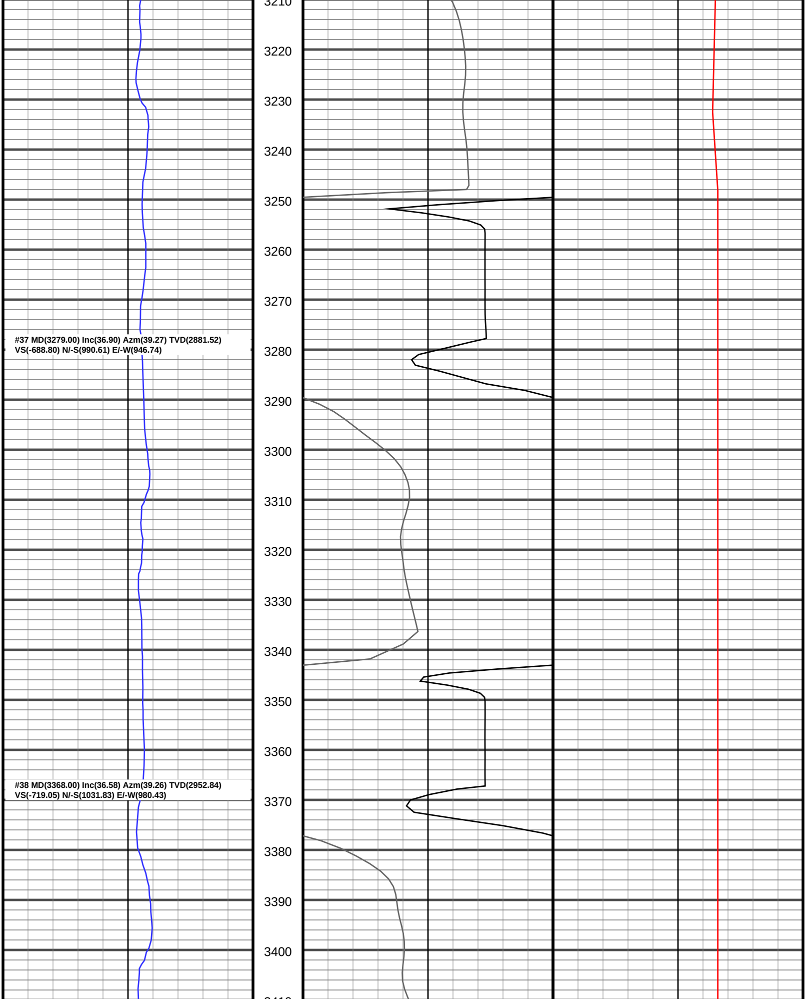






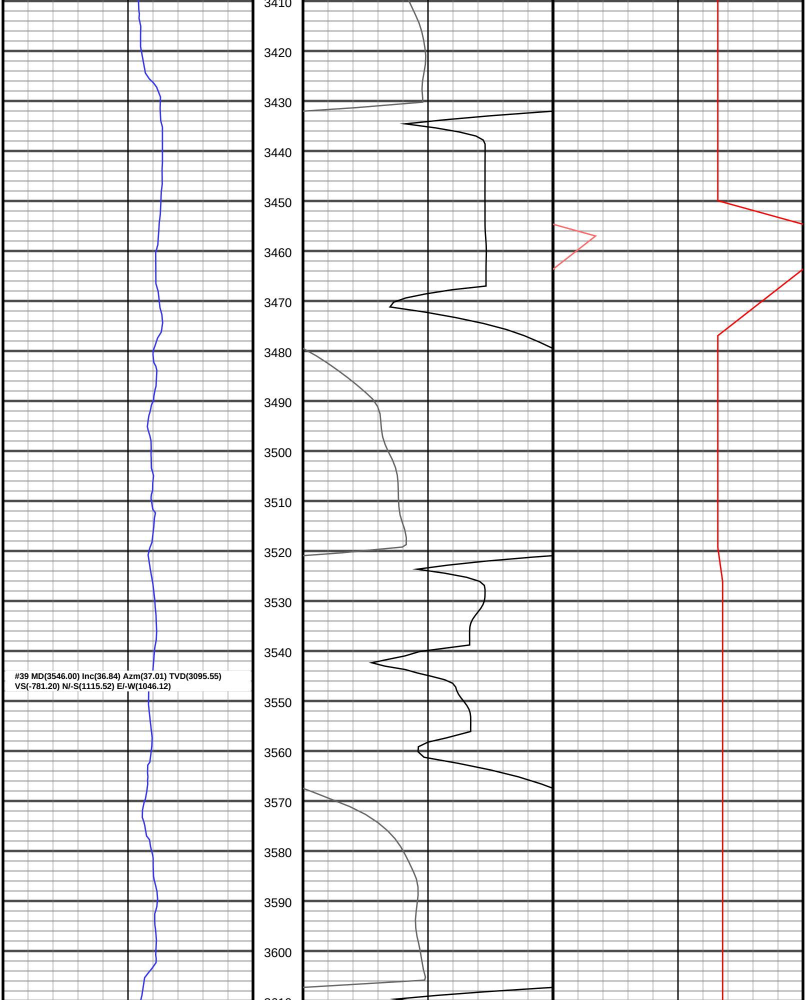




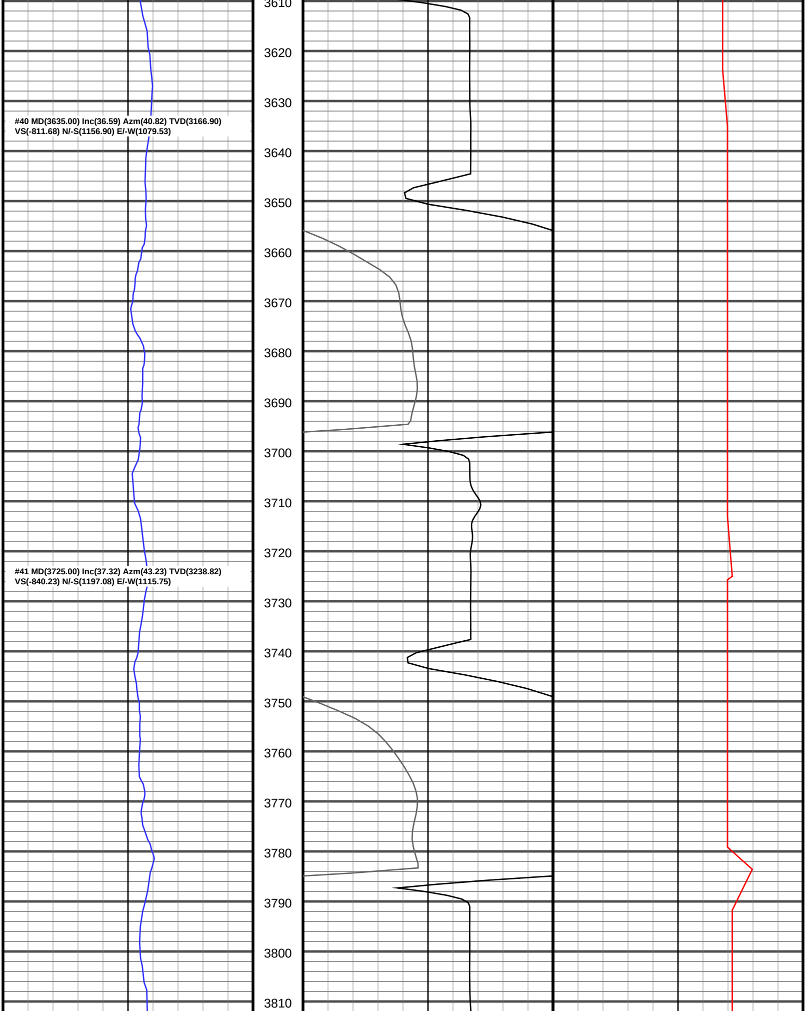


#37 MD(3279.00) Inc(36.90) Azm(39.27) TVD(2881.52)
VS(-688.80) N/-S(990.61) E/-W(946.74)

#38 MD(3368.00) Inc(36.58) Azm(39.26) TVD(2952.84)
VS(-719.05) N/-S(1031.83) E/-W(980.43)

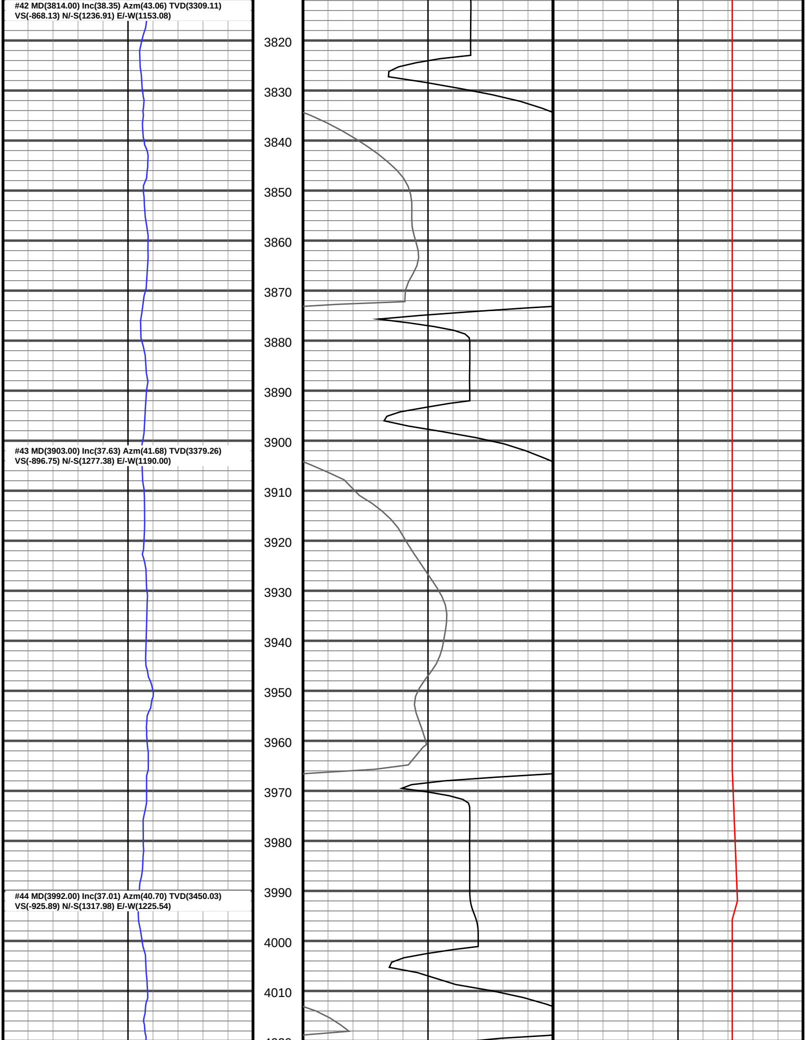


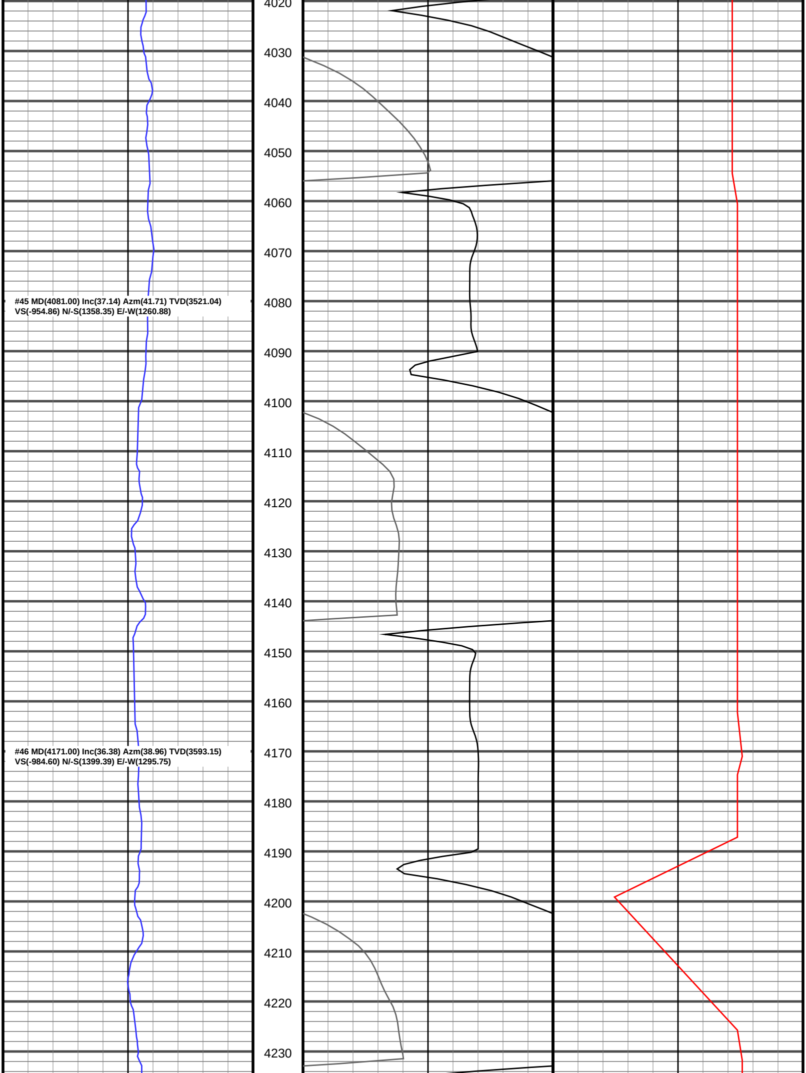
#39 MD(3546.00) Inc(36.84) Azm(37.01) TVD(3095.55)
VS(-781.20) N-S(1115.52) E-W(1046.12)

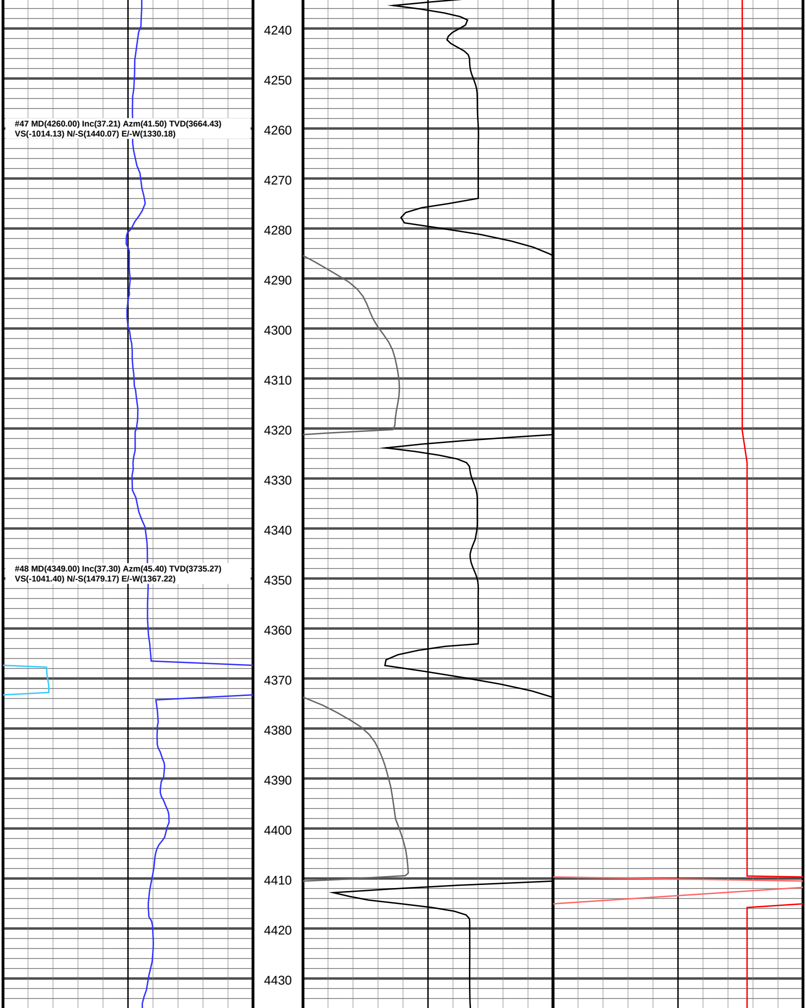


#40 MD(3635.00) Inc(36.59) Azm(40.82) TVD(3166.90)
VS(-811.68) N/-S(1156.90) E/-W(1079.53)

#41 MD(3725.00) Inc(37.32) Azm(43.23) TVD(3238.82)
VS(-840.23) N/-S(1197.08) E/-W(1115.75)

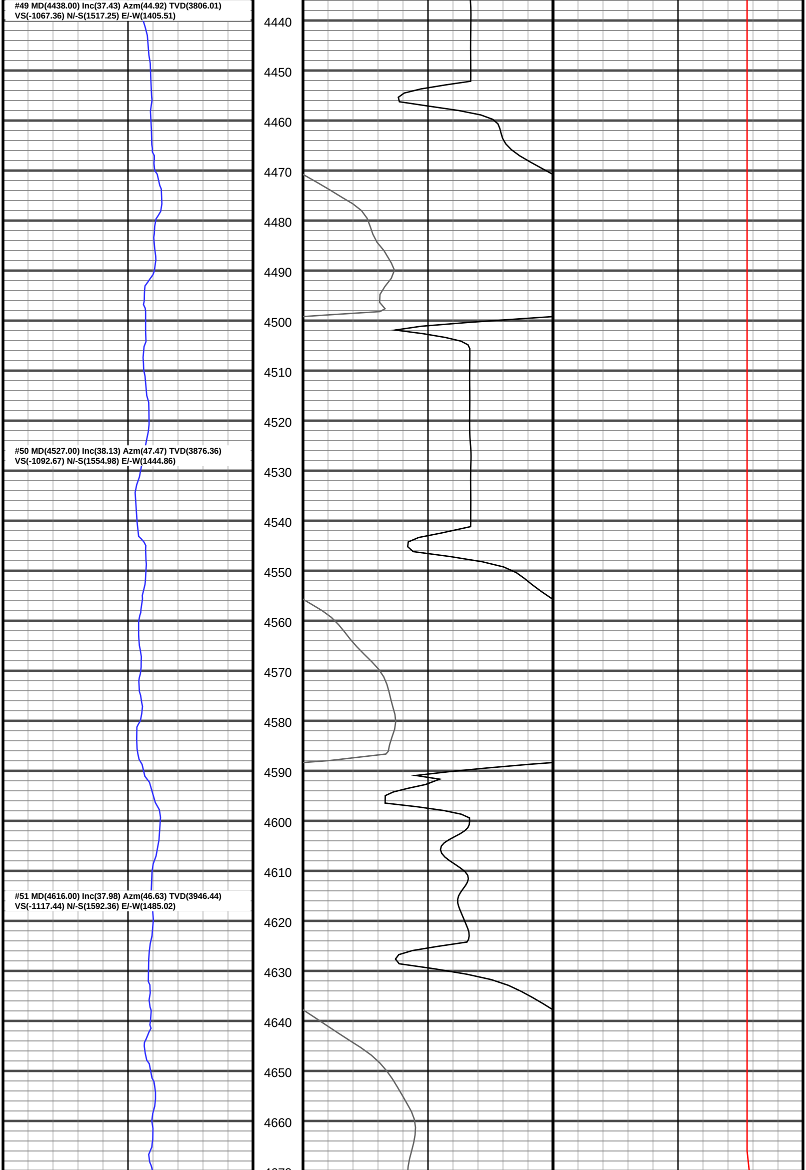


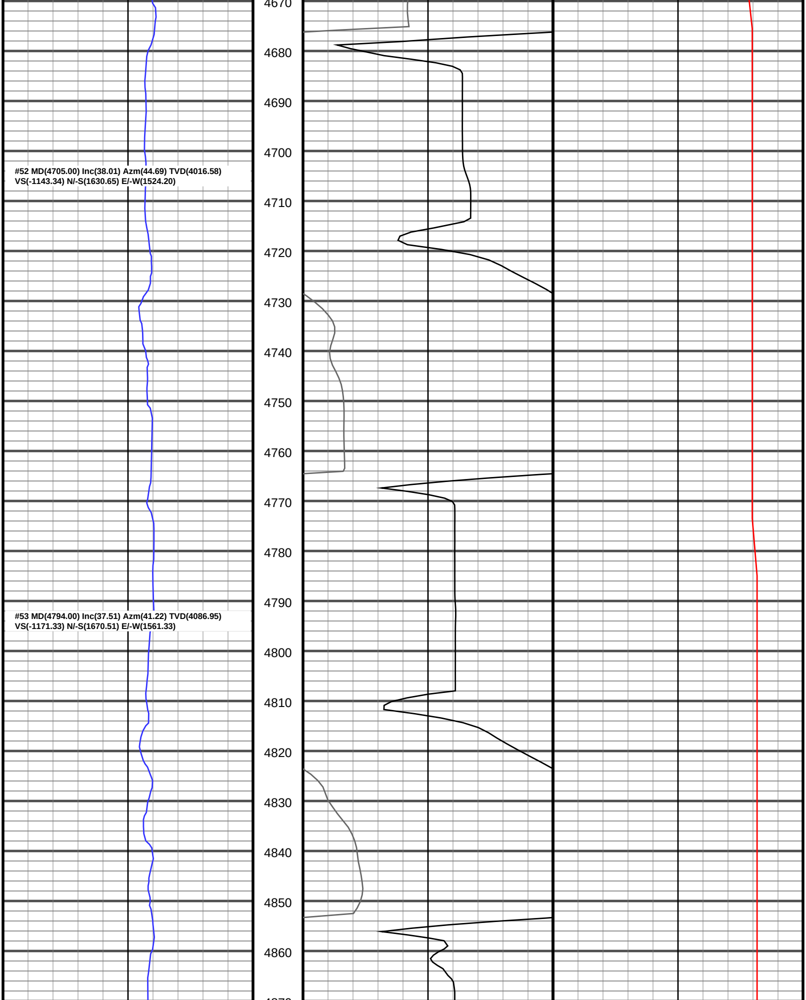




#47 MD(4260.00) Inc(37.21) Azm(41.50) TVD(3664.43)
VS(-1014.13) N/-S(1440.07) E/-W(1330.18)

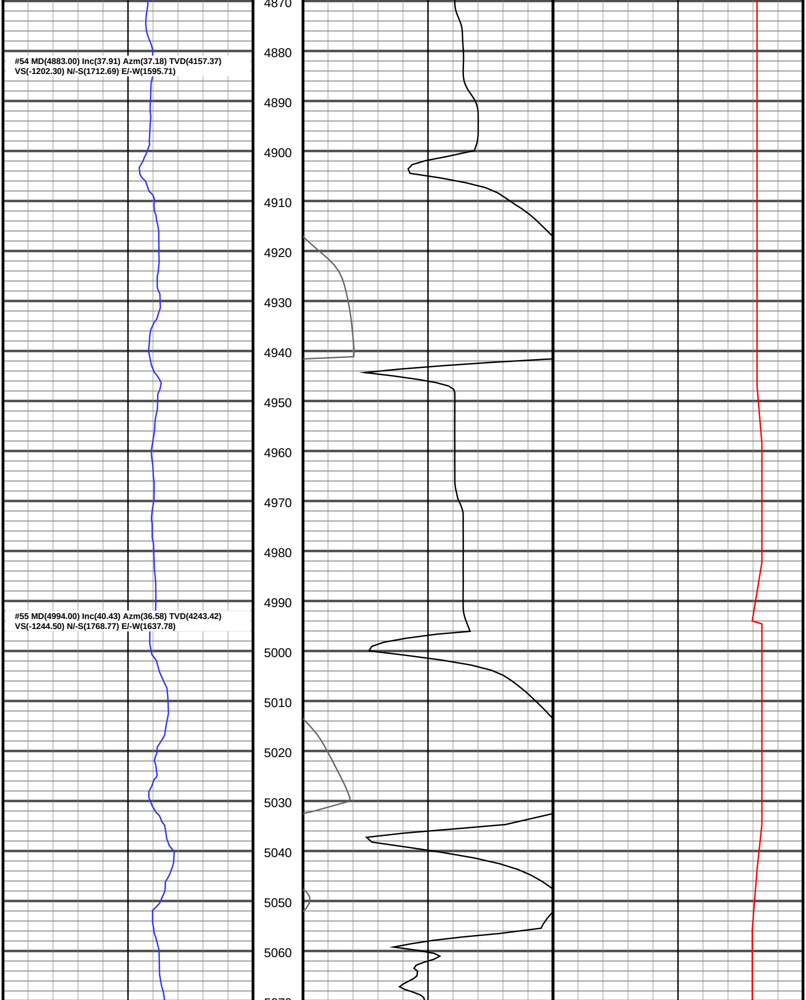
#48 MD(4349.00) Inc(37.30) Azm(45.40) TVD(3735.27)
VS(-1041.40) N/-S(1479.17) E/-W(1367.22)





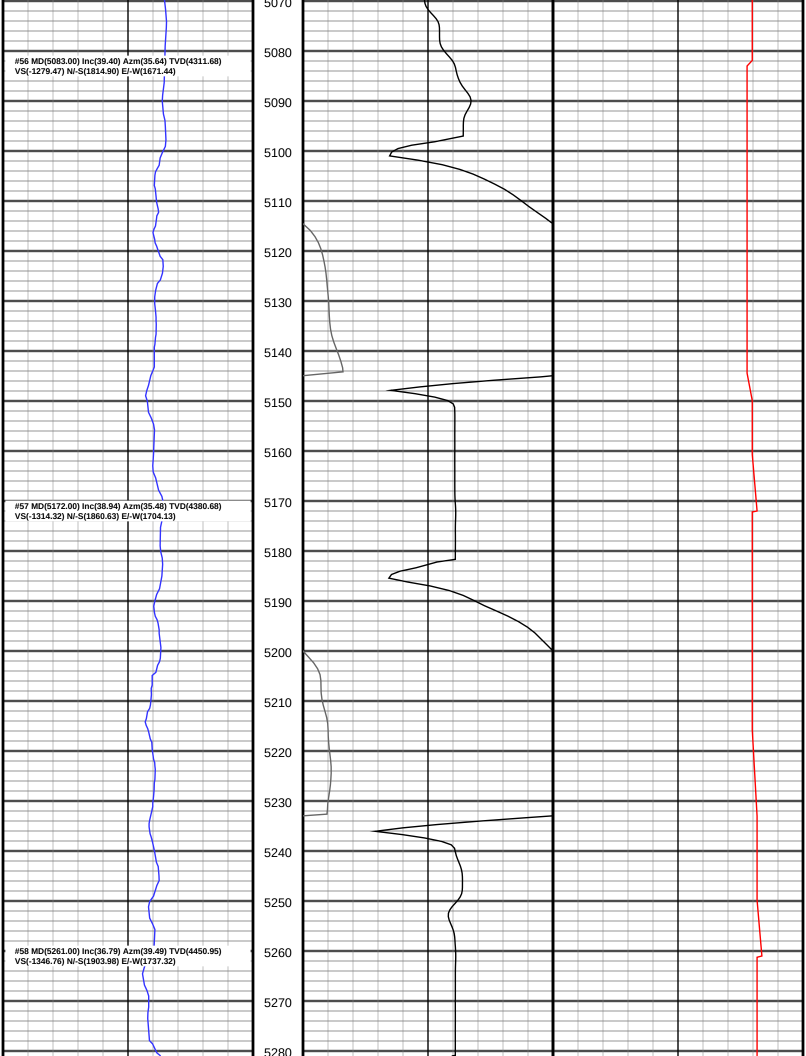
#52 MD(4705.00) Inc(38.01) Azm(44.69) TVD(4016.58)
VS(-1143.34) N/-S(1630.65) E/-W(1524.20)

#53 MD(4794.00) Inc(37.51) Azm(41.22) TVD(4086.95)
VS(-1171.33) N/-S(1670.51) E/-W(1561.33)



#54 MD(4883.00) Inc(37.91) Azm(37.18) TVD(4157.37)
VS(-1202.30) N/-S(1712.69) E/-W(1595.71)

#55 MD(4994.00) Inc(40.43) Azm(36.58) TVD(4243.42)
VS(-1244.50) N/-S(1768.77) E/-W(1637.78)



#56 MD(5083.00) Inc(39.40) Azm(35.64) TVD(4311.68)
VS(-1279.47) N/-S(1814.90) E/-W(1671.44)

#57 MD(5172.00) Inc(38.94) Azm(35.48) TVD(4380.68)
VS(-1314.32) N/-S(1860.63) E/-W(1704.13)

#58 MD(5261.00) Inc(36.79) Azm(39.49) TVD(4450.95)
VS(-1346.76) N/-S(1903.98) E/-W(1737.32)

5290
#59 MD(5351.00) Inc(37.72) Azm(41.16) TVD(4522.58) VS(-1376.86) N/-S(1945.51) E/-W(1772.58)
#60 MD(5440.00) Inc(38.54) Azm(41.37) TVD(4592.59) VS(-1406.48) N/-S(1986.82) E/-W(1808.82)
#61 MD(5529.00) Inc(40.89) Azm(40.59) TVD(4661.05) VS(-1437.37) N/-S(2029.75) E/-W(1846.11)
#62 MD(5618.00) Inc(42.29) Azm(40.86) TVD(4727.61) VS(-1469.68) N/-S(2074.52) E/-W(1884.65)
#63 MD(5707.00) Inc(41.66) Azm(41.69) TVD(4793.78) VS(-1501.76) N/-S(2119.26) E/-W(1923.91)
#64 MD(5796.00) Inc(41.37) Azm(39.35) TVD(4860.42) VS(-1534.19) N/-S(2164.09) E/-W(1962.24)
#65 MD(5885.00) Inc(42.16) Azm(39.47) TVD(4926.81) VS(-1567.74) N/-S(2209.89) E/-W(1999.87)
#66 MD(5974.00) Inc(42.60) Azm(40.50) TVD(4992.55) VS(-1601.19) N/-S(2255.85) E/-W(2038.42)
#67 MD(6063.00) Inc(39.75) Azm(39.66) TVD(5059.54) VS(-1633.77) N/-S(2300.67) E/-W(2076.15)
#68 MD(6152.00) Inc(39.30) Azm(41.16) TVD(5128.19) VS(-1665.01) N/-S(2343.80) E/-W(2112.87)
#69 MD(6241.00) Inc(38.94) Azm(42.99) TVD(5197.24) VS(-1694.61) N/-S(2385.48) E/-W(2150.49)
#70 MD(6330.00) Inc(37.77) Azm(43.59) TVD(5267.03) VS(-1722.71) N/-S(2425.68) E/-W(2188.35)
#71 MD(6419.00) Inc(37.08) Azm(43.57) TVD(5337.71) VS(-1750.00) N/-S(2464.86) E/-W(2225.64)
#72 MD(6597.00) Inc(38.38) Azm(40.03) TVD(5478.50) VS(-1807.87) N/-S(2546.07) E/-W(2298.18)
#73 MD(6686.00) Inc(40.16) Azm(40.21) TVD(5547.40) VS(-1839.18) N/-S(2589.14) E/-W(2334.48)
#74 MD(6775.00) Inc(41.18) Azm(41.42) TVD(5614.90) VS(-1870.81) N/-S(2633.03) E/-W(2372.39)
#75 MD(6865.00) Inc(39.87) Azm(42.36) TVD(5683.31) VS(-1901.80) N/-S(2676.57) E/-W(2411.43)
#76 MD(6954.00) Inc(37.96) Azm(42.11) TVD(5752.56) VS(-1931.13) N/-S(2717.96) E/-W(2449.01)
#77 MD(7043.00) Inc(36.16) Azm(42.01) TVD(5823.58) VS(-1959.40) N/-S(2757.78) E/-W(2484.94)
#78 MD(7132.00) Inc(36.47) Azm(41.04) TVD(5895.29) VS(-1987.61) N/-S(2797.24) E/-W(2519.88)
#79 MD(7221.00) Inc(38.13) Azm(38.84) TVD(5966.09) VS(-2017.74) N/-S(2838.60) E/-W(2554.49)
#80 MD(7310.00) Inc(39.25) Azm(37.65) TVD(6035.56) VS(-2050.15) N/-S(2882.29) E/-W(2588.92)
#81 MD(7399.00) Inc(37.43) Azm(38.75) TVD(6105.36) VS(-2082.36) N/-S(2925.68) E/-W(2623.05)
#82 MD(7488.00) Inc(36.19) Azm(39.01) TVD(6176.62) VS(-2112.95) N/-S(2967.19) E/-W(2656.52)
#83 MD(7577.00) Inc(35.99) Azm(40.49) TVD(6248.54) VS(-2142.36) N/-S(3007.50) E/-W(2690.04)
#84 MD(7666.00) Inc(35.79) Azm(40.56) TVD(6320.64) VS(-2171.05) N/-S(3047.16) E/-W(2723.94)
#85 MD(7755.00) Inc(34.40) Azm(43.87) TVD(6393.47) VS(-2197.92) N/-S(3085.06) E/-W(2758.29)
#86 MD(7844.00) Inc(35.59) Azm(45.96) TVD(6466.38) VS(-2222.63) N/-S(3121.19) E/-W(2794.33)
#87 MD(7933.00) Inc(37.92) Azm(45.91) TVD(6537.68) VS(-2247.58) N/-S(3158.23) E/-W(2832.60)
#88 MD(8022.00) Inc(38.31) Azm(45.03) TVD(6607.70) VS(-2273.72) N/-S(3196.75) E/-W(2871.76)
#89 MD(8111.00) Inc(38.75) Azm(46.59) TVD(6677.33) VS(-2299.80) N/-S(3235.39) E/-W(2911.51)
#90 MD(8200.00) Inc(39.46) Azm(46.74) TVD(6746.39) VS(-2325.47) N/-S(3273.91) E/-W(2952.34)
#91 MD(8289.00) Inc(39.13) Azm(44.29) TVD(6815.27) VS(-2352.24) N/-S(3313.40) E/-W(2992.55)
#92 MD(8378.00) Inc(39.42) Azm(43.59) TVD(6884.17) VS(-2380.36) N/-S(3353.97) E/-W(3031.65)
#93 MD(8467.00) Inc(38.54) Azm(41.51) TVD(6953.36) VS(-2409.46) N/-S(3395.20) E/-W(3069.51)
#94 MD(8556.00) Inc(32.83) Azm(46.94) TVD(7025.63) VS(-2435.26) N/-S(3432.48) E/-W(3105.55)
#95 MD(8645.00) Inc(26.93) Azm(62.27) TVD(7102.88) VS(-2450.29) N/-S(3458.39) E/-W(3141.10)
#96 MD(8735.00) Inc(22.35) Azm(81.81) TVD(7184.80) VS(-2452.03) N/-S(3470.33) E/-W(3176.15)
#97 MD(8824.00) Inc(22.47) Azm(102.71) TVD(7267.21) VS(-2441.48) N/-S(3469.00) E/-W(3209.55)
8880

8890
8900
8910
#98 MD(8913.00) Inc(25.48) Azm(116.29) TVD(7348.59)
VS(-2420.34) N/-S(3456.77) E/-W(3243.33)
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8930
8940
8950
8960
8970
8980
8990
#99 MD(9002.00) Inc(29.38) Azm(123.67) TVD(7427.59)
VS(-2390.74) N/-S(3436.17) E/-W(3278.69)
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9010
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9050
9060
9070
9080
#100 MD(9091.00) Inc(34.84) Azm(127.92) TVD(7502.96)
VS(-2353.46) N/-S(3408.42) E/-W(3316.95)
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9120
9130
9140
9150
9160
9170
#101 MD(9180.00) Inc(40.00) Azm(133.77) TVD(7573.64)
VS(-2308.09) N/-S(3372.97) E/-W(3357.70)
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9190
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9220
9230
9240
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9260
#102 MD(9269.00) Inc(44.17) Azm(142.20) TVD(7639.73)
VS(-2254.47) N/-S(3328.63) E/-W(3397.41)
9270
9280
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9300
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9320
9330
9340
9350
#103 MD(9358.00) Inc(49.03) Azm(151.00) TVD(7700.92)
VS(-2192.80) N/-S(3274.65) E/-W(3432.76)
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9370
9380
9390
9400
9410
9420
9430
9440
#104 MD(9447.00) Inc(57.07) Azm(156.58) TVD(7754.41)
VS(-2122.84) N/-S(3210.86) E/-W(3463.96)
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9460
9470
9480
9490
9500
9510
9520
9530
#105 MD(9537.00) Inc(68.52) Azm(162.15) TVD(7795.51)
VS(-2043.21) N/-S(3136.04) E/-W(3491.92)
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9560
9570
9580
9590
9600
9610
9620
#106 MD(9626.00) Inc(79.13) Azm(168.25) TVD(7820.29)
VS(-1957.93) N/-S(3053.53) E/-W(3513.60)
9630
9640
9650
9660
9670
9680
9690
9700
9710
#107 MD(9715.00) Inc(89.53) Azm(177.34) TVD(7829.09)
VS(-1870.66) N/-S(2965.88) E/-W(3524.61)
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9790
9800
#108 MD(9804.00) Inc(90.97) Azm(177.37) TVD(7828.70)
VS(-1784.11) N/-S(2876.97) E/-W(3528.72)
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9870
9880
9890
#109 MD(9893.00) Inc(89.61) Azm(179.00) TVD(7828.25)
VS(-1697.87) N/-S(2788.02) E/-W(3531.54)
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9980
#110 MD(9982.00) Inc(90.28) Azm(178.29) TVD(7828.33)
VS(-1611.81) N/-S(2699.05) E/-W(3533.64)
9990
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10030
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10050
10060
#111 MD(10071.00) Inc(89.72) Azm(180.04) TVD(7828.33)
VS(-1525.97) N/-S(2610.06) E/-W(3534.94)
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10140
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#112 MD(10160.00) Inc(90.42) Azm(179.51) TVD(7828.23)
VS(-1440.37) N/-S(2521.07) E/-W(3535.29)
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10180
10190
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10220
10230
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#113 MD(10249.00) Inc(89.01) Azm(181.33) TVD(7828.67)
VS(-1355.06) N/-S(2432.08) E/-W(3534.64)
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10310
10320
10330
#114 MD(10338.00) Inc(89.21) Azm(181.22) TVD(7830.05)
VS(-1270.14) N/-S(2343.11) E/-W(3532.66)
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VS(-1185.12) N/-S(2254.13) E/-W(3530.99)
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10440
10450
10460
10470
10480
10490
10500
10510
#116 MD(10516.00) Inc(89.93) Azm(181.12) TVD(7831.26)
VS(-1100.08) N/-S(2165.14) E/-W(3529.40)
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10530
10540
10550
10560
10570
10580
10590
10600
#117 MD(10605.00) Inc(90.18) Azm(180.90) TVD(7831.18)
VS(-1015.03) N/-S(2076.16) E/-W(3527.83)
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10620
10630
10640
10650
10660
10670
10680
10690
#118 MD(10694.00) Inc(90.61) Azm(180.19) TVD(7830.56)
VS(-929.77) N/-S(1987.16) E/-W(3526.98)
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10710
10720
10730
10740
10750
10760
10770
10780
#119 MD(10783.00) Inc(91.38) Azm(179.53) TVD(7829.02)
VS(-844.22) N/-S(1898.18) E/-W(3527.20)
10790
10800
10810
10820
10830
10840
10850
10860
10870
#120 MD(10872.00) Inc(89.36) Azm(180.50) TVD(7828.44)
VS(-758.73) N/-S(1809.19) E/-W(3527.17)
10880
10890
10900
10910
10920
10930
10940
10950
#121 MD(10961.00) Inc(89.15) Azm(179.60) TVD(7829.60)
VS(-673.26) N/-S(1720.20) E/-W(3527.10)
10960
10970
10980
10990
11000
11010
11020
11030
11040
#122 MD(11050.00) Inc(88.72) Azm(178.75) TVD(7831.25)
VS(-587.43) N/-S(1631.22) E/-W(3528.38)
11050
11060
11070
11080
11090
11100
11110
11120
11130
#123 MD(11139.00) Inc(87.94) Azm(178.47) TVD(7833.85)
VS(-501.39) N/-S(1542.29) E/-W(3530.54)
11140
11150
11160
11170
11180
11190
11200
11210
11220
#124 MD(11228.00) Inc(87.67) Azm(178.25) TVD(7837.26)
VS(-415.28) N/-S(1453.39) E/-W(3533.08)
11230
11240
11250
11260
11270
11280
11290
11300
11310
#125 MD(11317.00) Inc(87.30) Azm(177.90) TVD(7841.16)
VS(-329.08) N/-S(1364.52) E/-W(3536.07)
11320
11330
11340
11350
11360
11370
11380
11390
11400
#126 MD(11405.00) Inc(88.44) Azm(178.25) TVD(7844.43)
VS(-243.83) N/-S(1276.64) E/-W(3539.02)
11410
11420
11430
11440
11450
11460
11470
11480
11490
#127 MD(11495.00) Inc(89.76) Azm(179.44) TVD(7845.85)
VS(-156.90) N/-S(1186.67) E/-W(3540.83)
11500
11510
11520
11530
11540
11550
11560
11570
11580
#128 MD(11584.00) Inc(89.75) Azm(179.66) TVD(7846.23)
VS(-71.21) N/-S(1097.67) E/-W(3541.53)
11590
11600
11610
11620
11630
11640
11650
11660
11670
#129 MD(11672.00) Inc(89.90) Azm(179.67) TVD(7846.50)
VS(13.47) N/-S(1009.67) E/-W(3542.05)
11680
11690
11700
11710
11720
11730
11740
11750
#130 MD(11761.00) Inc(90.45) Azm(180.87) TVD(7846.22)
VS(98.85) N/-S(920.68) E/-W(3541.63)
11760
11770
11780
11790
11800
11810
11820
11830
11840
#131 MD(11850.00) Inc(89.80) Azm(181.41) TVD(7846.03)
VS(183.85) N/-S(831.70) E/-W(3539.86)
11850
11860
11870
11880
11890
11900
11910
11920
11930
11940
11950
11960
11970
11980
11990
12000
XEM Gamma
API
0
200
200
400
ROP
ft/hr
0
800
800
1600
XEM Temp
degrees
0
135
135
270