Precision
Directional Services

Horsetail 07G-0610

MD
5":100'

Company: Whiting Petroleum Corp.
Well Name: Horsetail 07G-0610
API: 05-123-42114-00
County/Parish: Weld
State: Colorado
Country: USA
Job number: GC-160022
Field: DJ Basin
Rig Id: Unit 409
Survey Company: Precision Directional Services, Inc.

Log measurements: GR, ROP
Depth measured from:
Maximum temperature: 226.4

	Depth	Date
Start:	0 ft	4/7/2016
End:	12740 ft	4/10/2016

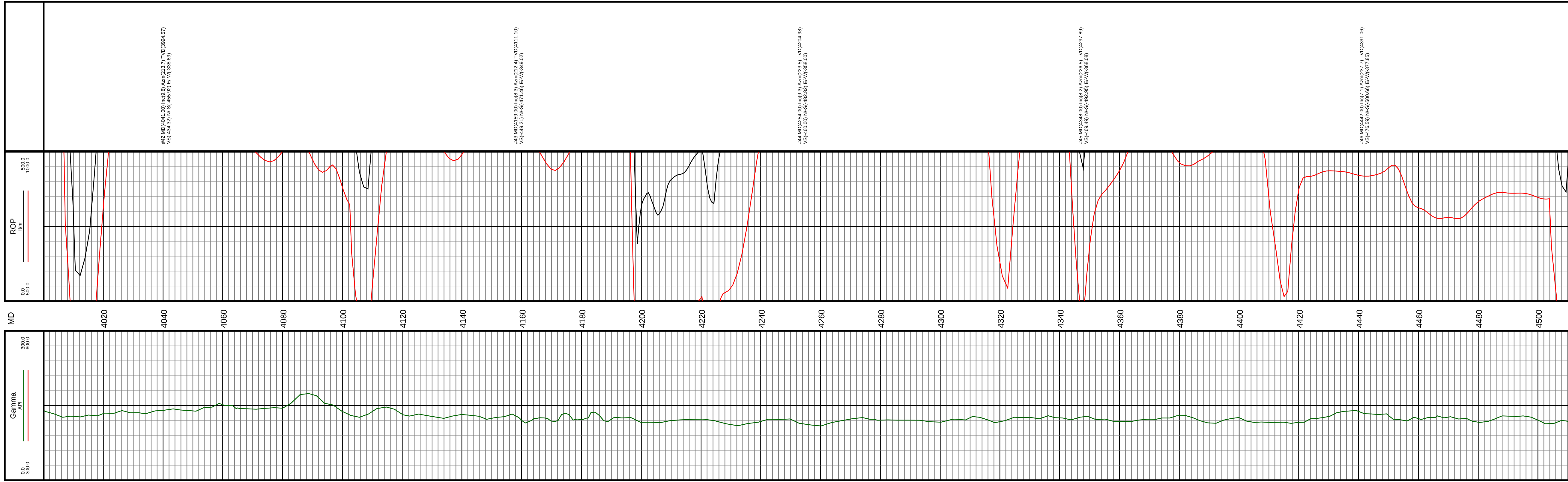
Casing	Depth	Size
Surface:	2024 ft	9 5/8"
Intermediate:	12740 ft	5 1/2"

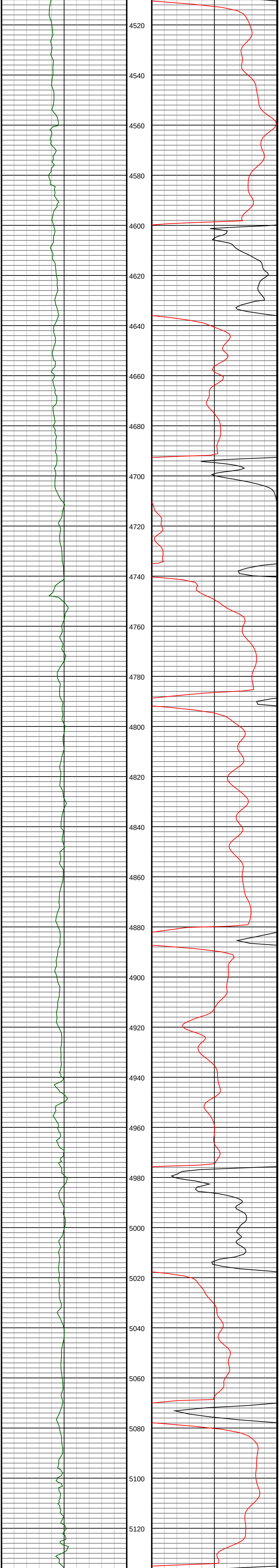
Mud Type: WBM
Density: 10.5
Viscosity: 43
Rm: **Rmf:** **Rmc:**

Elevations
KB: 4916 ft
GL: 4895 ft
DF: 21 ft

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	13 1/2"		57.00 ft	0 ft	2024 ft	4/7/2016	4/8/2016
2	8 1/2"	47.00 ft	60.00 ft	2024 ft	5445 ft	4/8/2016	4/9/2016
3	8 1/2"	47.00 ft	60.00 ft	5445 ft	12740 ft	4/9/2016	4/10/2016
4							
5							
6							
7							
8							
9							
10							

Precision Directional Services, Inc. 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.





#47 MD(4537.00) Inc(6.2) Azm(248.9) TVD(4485.41)
VS(-481.00) N/-S(-505.68) E/-W(-387.66)

#48 MD(4631.00) Inc(7.5) Azm(238.3) TVD(4578.74)
VS(-485.44) N/-S(-510.74) E/-W(-397.63)

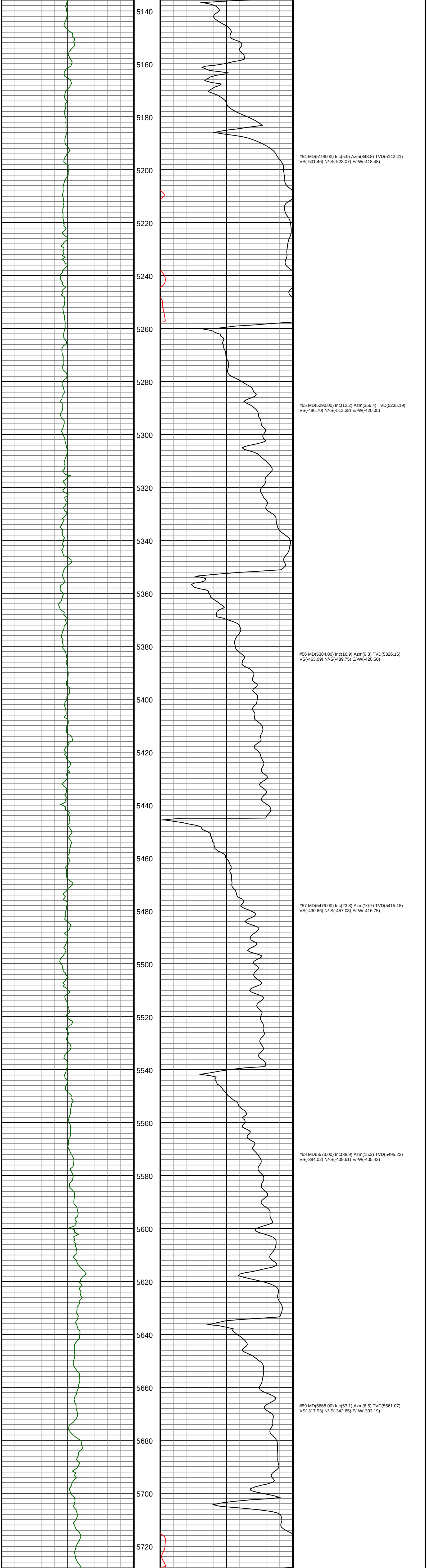
#49 MD(4725.00) Inc(4.6) Azm(212.9) TVD(4672.23)
VS(-491.37) N/-S(-517.13) E/-W(-404.88)

#50 MD(4819.00) Inc(4.6) Azm(221.2) TVD(4765.92)
VS(-497.11) N/-S(-523.16) E/-W(-409.43)

#51 MD(4914.00) Inc(3.9) Azm(222.2) TVD(4860.65)
VS(-502.13) N/-S(-528.47) E/-W(-414.16)

#52 MD(5008.00) Inc(0.7) Azm(239.4) TVD(4954.57)
VS(-504.63) N/-S(-531.15) E/-W(-416.80)

#53 MD(5102.00) Inc(0.9) Azm(191.3) TVD(5048.56)
VS(-505.56) N/-S(-532.11) E/-W(-417.40)



#54 MD(5196.00) Inc(5.9) Azm(348.8) TVD(5142.41)
VS(-501.46) N/-S(-528.07) E/-W(-418.48)

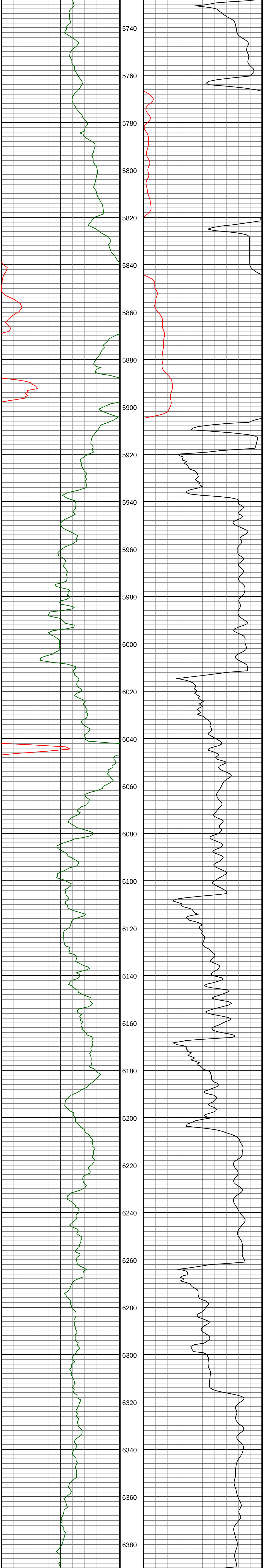
#55 MD(5290.00) Inc(12.2) Azm(356.4) TVD(5235.19)
VS(-486.70) N/-S(-513.38) E/-W(-420.05)

#56 MD(5384.00) Inc(16.9) Azm(0.8) TVD(5326.15)
VS(-463.09) N/-S(-489.75) E/-W(-420.50)

#57 MD(5479.00) Inc(23.8) Azm(10.7) TVD(5415.18)
VS(-430.66) N/-S(-457.03) E/-W(-416.75)

#58 MD(5573.00) Inc(38.9) Azm(15.2) TVD(5495.22)
VS(-384.02) N/-S(-409.61) E/-W(-405.42)

#59 MD(5668.00) Inc(53.1) Azm(6.5) TVD(5561.07)
VS(-317.93) N/-S(-342.65) E/-W(-393.19)



#60 MD(5762.00) Inc(60.8) Azm(360.0) TVD(5612.29)
VS(-239.76) N/-S(-264.07) E/-W(-388.92)

#61 MD(5856.00) Inc(59.5) Azm(359.9) TVD(5659.04)
VS(-158.36) N/-S(-182.52) E/-W(-389.01)

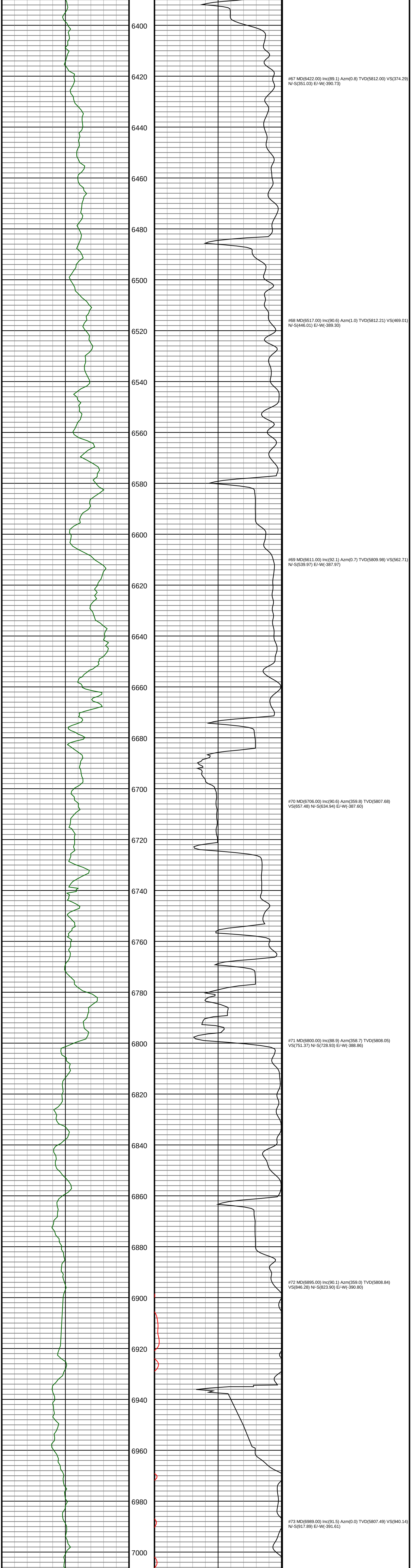
#62 MD(5950.00) Inc(60.3) Azm(359.0) TVD(5706.18)
VS(-77.15) N/-S(-101.20) E/-W(-389.78)

#63 MD(6045.00) Inc(63.1) Azm(358.4) TVD(5751.21) VS(6.43)
N/-S(-17.59) E/-W(-391.68)

#64 MD(6139.00) Inc(75.3) Azm(359.9) TVD(5784.51)
VS(94.05) N/-S(70.12) E/-W(-392.98)

#65 MD(6234.00) Inc(83.2) Azm(0.8) TVD(5802.18) VS(187.10)
N/-S(163.38) E/-W(-392.44)

#66 MD(6328.00) Inc(87.8) Azm(0.3) TVD(5809.51) VS(280.56)
N/-S(257.07) E/-W(-391.57)



#67 MD(6422.00) Inc(89.1) Azm(0.8) TVD(5812.00) VS(374.29)
N/-S(351.03) E/-W(-390.73)

#68 MD(6517.00) Inc(90.6) Azm(1.0) TVD(5812.21) VS(469.01)
N/-S(446.01) E/-W(-389.30)

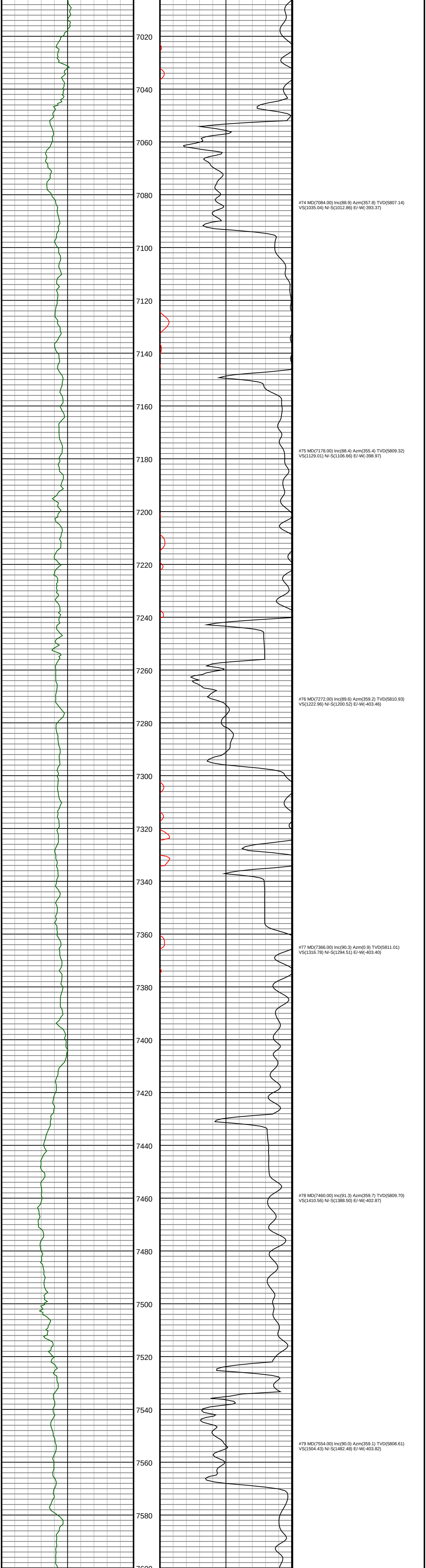
#69 MD(6611.00) Inc(92.1) Azm(0.7) TVD(5809.98) VS(562.71)
N/-S(539.97) E/-W(-387.97)

#70 MD(6706.00) Inc(90.6) Azm(359.8) TVD(5807.68)
VS(657.48) N/-S(634.94) E/-W(-387.60)

#71 MD(6800.00) Inc(88.9) Azm(358.7) TVD(5808.05)
VS(751.37) N/-S(728.93) E/-W(-388.86)

#72 MD(6895.00) Inc(90.1) Azm(359.0) TVD(5808.84)
VS(846.28) N/-S(823.90) E/-W(-390.80)

#73 MD(6989.00) Inc(91.5) Azm(0.0) TVD(5807.49) VS(940.14)
N/-S(917.89) E/-W(-391.61)



#74 MD(7084.00) Inc(88.9) Azm(357.8) TVD(5807.14)
VS(1035.04) N/-S(1012.86) E/-W(-393.37)

#75 MD(7178.00) Inc(88.4) Azm(355.4) TVD(5809.32)
VS(1129.01) N/-S(1106.66) E/-W(-398.97)

#76 MD(7272.00) Inc(89.6) Azm(359.2) TVD(5810.93)
VS(1222.96) N/-S(1200.52) E/-W(-403.46)

#77 MD(7366.00) Inc(90.3) Azm(0.9) TVD(5811.01)
VS(1316.78) N/-S(1294.51) E/-W(-403.40)

#78 MD(7460.00) Inc(91.3) Azm(359.7) TVD(5809.70)
VS(1410.56) N/-S(1388.50) E/-W(-402.87)

#79 MD(7554.00) Inc(90.0) Azm(359.1) TVD(5808.61)
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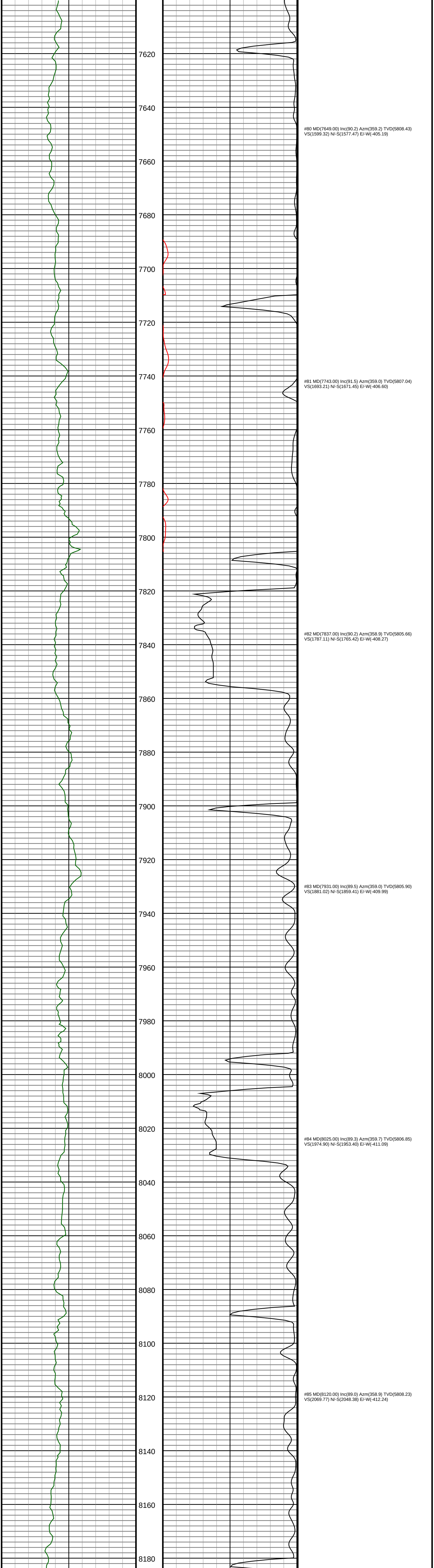


#80 MD(7649.00) Inc(90.2) Azm(359.2) TVD(5808.43)
VS(1599.32) N/-S(1577.47) E/-W(-405.19)

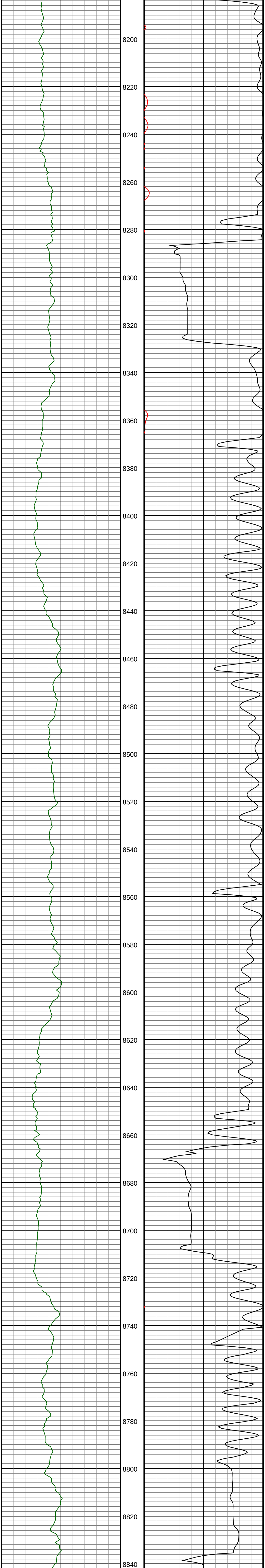
#81 MD(7743.00) Inc(91.5) Azm(359.0) TVD(5807.04)
VS(1693.21) N/-S(1671.45) E/-W(-406.60)

#82 MD(7837.00) Inc(90.2) Azm(358.9) TVD(5805.66)
VS(1787.11) N/-S(1765.42) E/-W(-408.27)

#83 MD(7931.00) Inc(89.5) Azm(359.0) TVD(5805.90)
VS(1881.02) N/-S(1859.41) E/-W(-409.99)

#84 MD(8025.00) Inc(89.3) Azm(359.7) TVD(5806.85)
VS(1974.90) N/-S(1953.40) E/-W(-411.09)

#85 MD(8120.00) Inc(89.0) Azm(358.9) TVD(5808.23)
VS(2069.77) N/-S(2048.38) E/-W(-412.24)



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VS(2163.67) N/-S(2142.36) E/-W(-413.59)

#87 MD(8308.00) Inc(89.5) Azm(1.3) TVD(5808.66)
VS(2257.45) N/-S(2236.36) E/-W(-412.98)

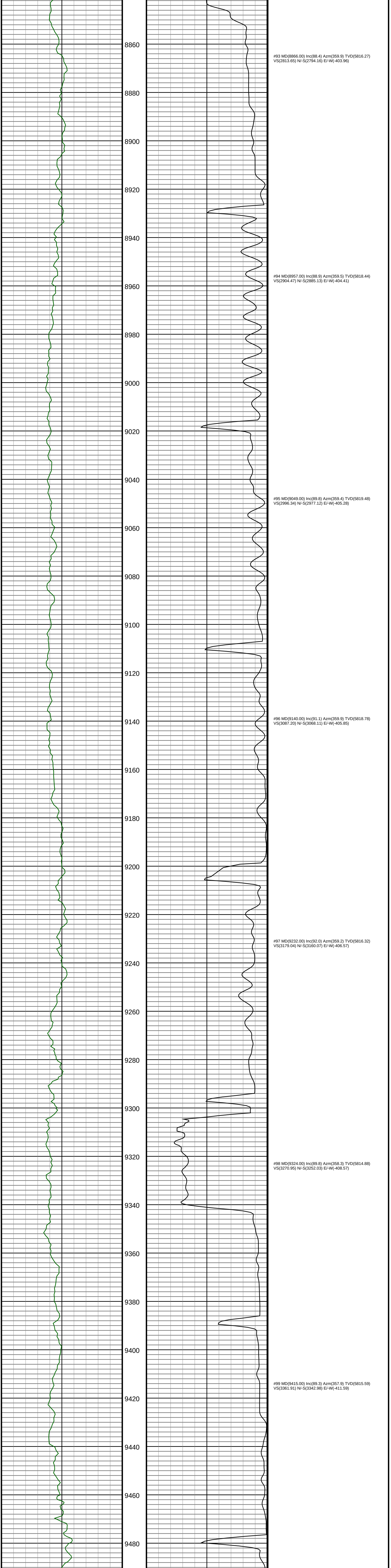
#88 MD(8402.00) Inc(89.0) Azm(1.4) TVD(5809.94)
VS(2351.10) N/-S(2330.32) E/-W(-410.78)

#89 MD(8496.00) Inc(89.5) Azm(0.7) TVD(5811.21)
VS(2444.79) N/-S(2424.30) E/-W(-409.03)

#90 MD(8591.00) Inc(90.9) Azm(1.1) TVD(5810.92)
VS(2539.50) N/-S(2519.28) E/-W(-407.46)

#91 MD(8683.00) Inc(89.6) Azm(0.6) TVD(5810.58)
VS(2631.23) N/-S(2611.27) E/-W(-406.04)

#92 MD(8774.00) Inc(87.5) Azm(1.0) TVD(5812.93)
VS(2721.93) N/-S(2702.22) E/-W(-404.73)



#93 MD(8866.00) Inc(88.4) Azm(359.9) TVD(5816.27)
VS(2813.65) N/-S(2794.16) E/-W(-403.96)

#94 MD(8957.00) Inc(88.9) Azm(359.5) TVD(5818.44)
VS(2904.47) N/-S(2885.13) E/-W(-404.41)

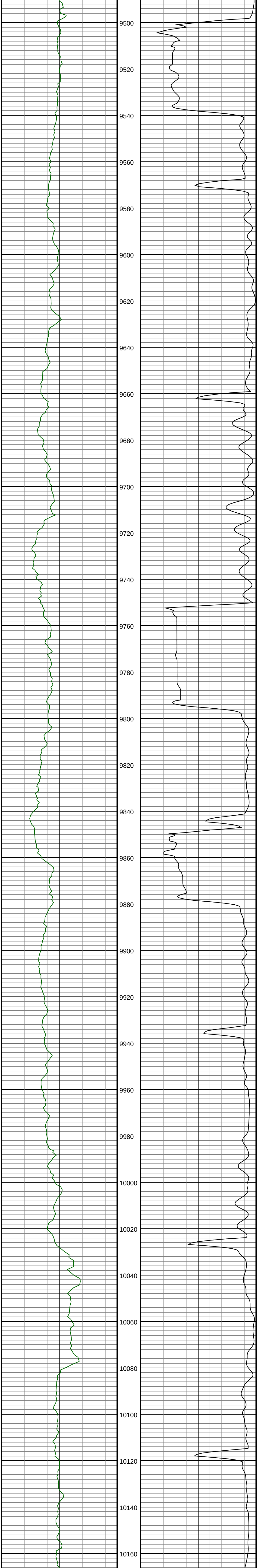
#95 MD(9049.00) Inc(89.8) Azm(359.4) TVD(5819.48)
VS(2996.34) N/-S(2977.12) E/-W(-405.28)

#96 MD(9140.00) Inc(91.1) Azm(359.9) TVD(5818.78)
VS(3087.20) N/-S(3068.11) E/-W(-405.85)

#97 MD(9232.00) Inc(92.0) Azm(359.2) TVD(5816.32)
VS(3179.04) N/-S(3160.07) E/-W(-406.57)

#98 MD(9324.00) Inc(89.8) Azm(358.3) TVD(5814.88)
VS(3270.95) N/-S(3252.03) E/-W(-408.57)

#99 MD(9415.00) Inc(89.3) Azm(357.9) TVD(5815.59)
VS(3361.91) N/-S(3342.98) E/-W(-411.59)



#100 MD(9506.00) Inc(90.3) Azm(357.8) TVD(5815.92)
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#101 MD(9598.00) Inc(91.9) Azm(359.4) TVD(5814.17)
VS(3544.79) N/-S(3525.86) E/-W(-417.23)

#102 MD(9689.00) Inc(93.5) Azm(359.2) TVD(5809.91)
VS(3635.58) N/-S(3616.76) E/-W(-418.34)

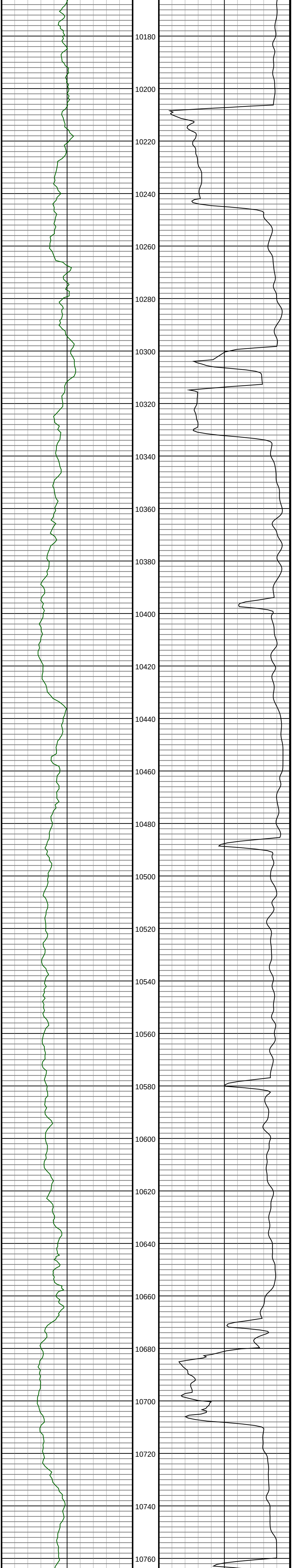
#103 MD(9781.00) Inc(91.2) Azm(0.1) TVD(5806.18)
VS(3727.36) N/-S(3708.67) E/-W(-418.92)

#104 MD(9873.00) Inc(88.8) Azm(1.7) TVD(5806.22)
VS(3819.08) N/-S(3800.65) E/-W(-417.48)

#105 MD(9964.00) Inc(88.7) Azm(1.4) TVD(5808.25)
VS(3909.70) N/-S(3891.59) E/-W(-415.01)

#106 MD(10056.00) Inc(89.9) Azm(0.6) TVD(5809.37)
VS(4001.41) N/-S(3983.57) E/-W(-413.37)

#107 MD(10148.00) Inc(91.8) Azm(1.6) TVD(5807.96)
VS(4093.09) N/-S(4075.54) E/-W(-411.59)



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#109 MD(10332.00) Inc(88.3) Azm(0.8) TVD(5807.42)
VS(4276.33) N/-S(4259.43) E/-W(-406.45)

#110 MD(10424.00) Inc(88.4) Azm(0.1) TVD(5810.11)
VS(4368.07) N/-S(4351.39) E/-W(-405.73)

#111 MD(10516.00) Inc(89.6) Azm(360.0) TVD(5811.73)
VS(4459.88) N/-S(4443.37) E/-W(-405.70)

#112 MD(10607.00) Inc(91.0) Azm(359.8) TVD(5811.27)
VS(4550.71) N/-S(4534.37) E/-W(-405.90)

#113 MD(10699.00) Inc(89.5) Azm(358.6) TVD(5810.92)
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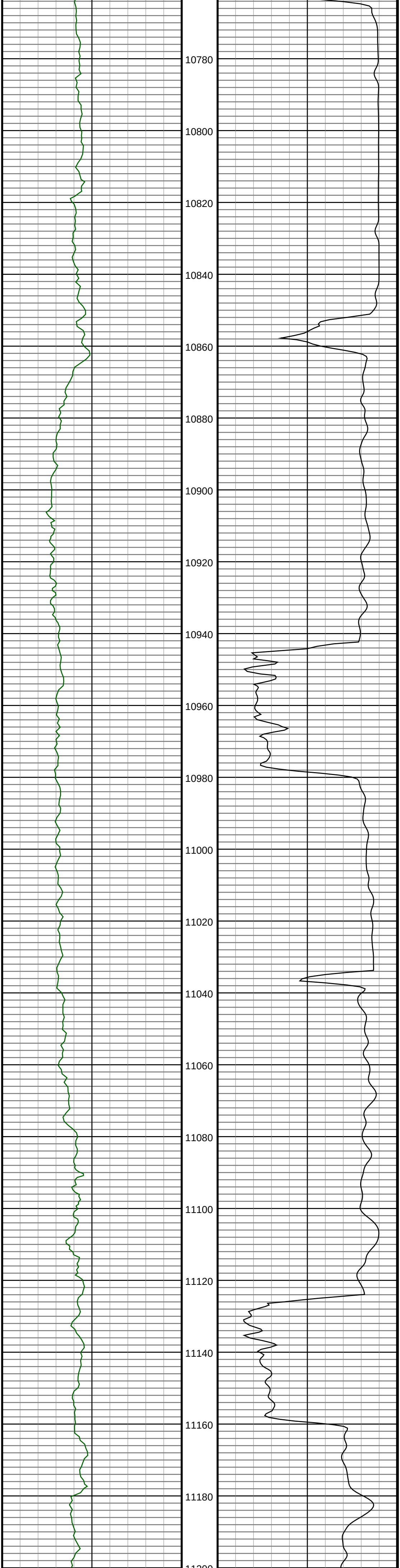

#114 MD(10790.00) Inc(89.7) Azm(358.0) TVD(5811.59)
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#115 MD(10882.00) Inc(90.8) Azm(357.5) TVD(5811.21)
VS(4825.53) N/-S(4809.24) E/-W(-413.50)

#116 MD(10972.00) Inc(90.1) Azm(359.7) TVD(5810.55)
VS(4915.46) N/-S(4899.20) E/-W(-415.67)

#117 MD(11064.00) Inc(91.2) Azm(359.9) TVD(5809.52)
VS(5007.30) N/-S(4991.20) E/-W(-415.99)

#118 MD(11153.00) Inc(88.6) Azm(359.7) TVD(5809.68)
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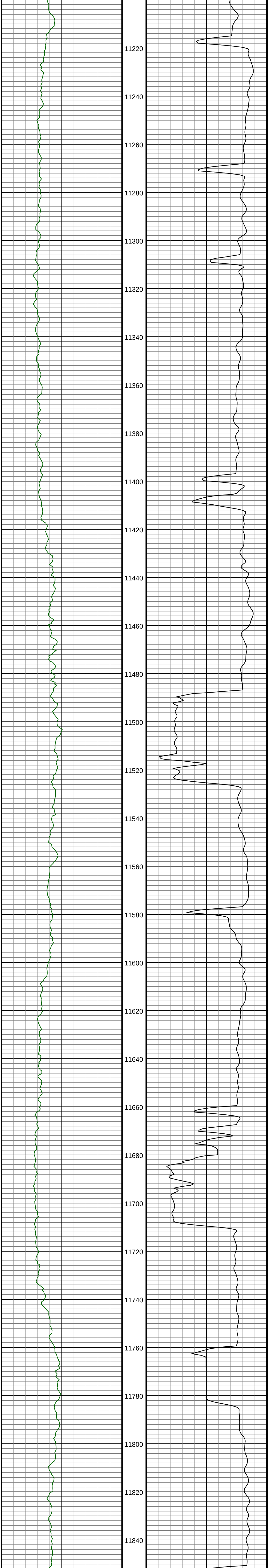

#119 MD(11244.00) Inc(89.0) Azm(359.4) TVD(5811.63)
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#120 MD(11335.00) Inc(90.1) Azm(358.9) TVD(5812.37)
VS(5277.89) N/-S(5262.15) E/-W(-418.34)

#121 MD(11426.00) Inc(91.5) Azm(358.6) TVD(5811.10)
VS(5368.81) N/-S(5353.12) E/-W(-420.28)

#122 MD(11516.00) Inc(88.9) Azm(359.4) TVD(5810.79)
VS(5458.71) N/-S(5443.10) E/-W(-421.79)

#123 MD(11608.00) Inc(88.8) Azm(359.3) TVD(5812.67)
VS(5550.57) N/-S(5535.07) E/-W(-422.77)

#124 MD(11699.00) Inc(89.1) Azm(1.0) TVD(5814.34)
VS(5641.37) N/-S(5626.05) E/-W(-422.54)

#125 MD(11790.00) Inc(89.7) Azm(0.7) TVD(5815.30)
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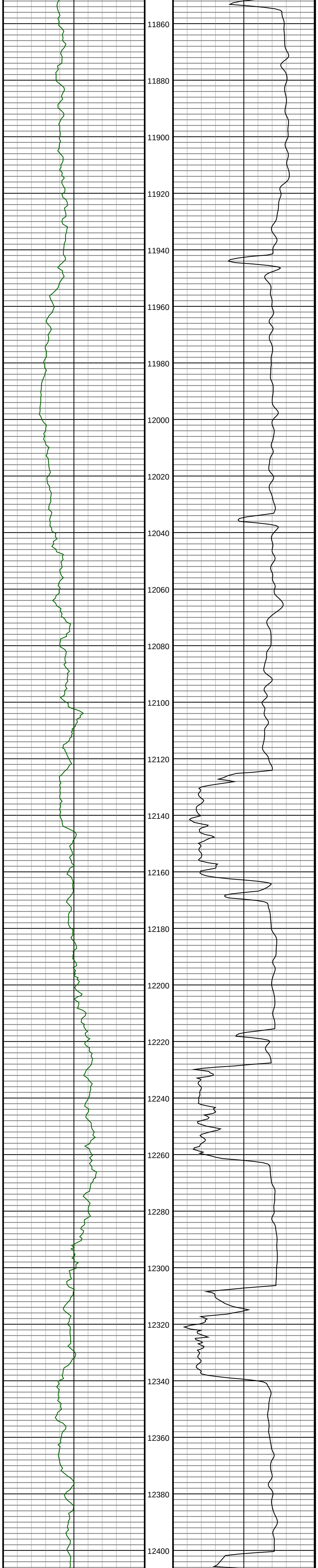

#126 MD(11882.00) Inc(90.3) Azm(359.8) TVD(5815.33)
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#127 MD(11973.00) Inc(91.0) Azm(358.2) TVD(5814.30)
VS(5914.81) N/-S(5900.01) E/-W(-422.51)

#128 MD(12065.00) Inc(92.4) Azm(357.8) TVD(5811.57)
VS(6006.74) N/-S(5991.91) E/-W(-425.71)

#129 MD(12156.00) Inc(90.7) Azm(358.0) TVD(5809.06)
VS(6097.67) N/-S(6082.81) E/-W(-429.05)

#130 MD(12247.00) Inc(89.7) Azm(0.3) TVD(5808.75)
VS(6188.56) N/-S(6173.80) E/-W(-430.41)

#131 MD(12341.00) Inc(88.2) Azm(2.4) TVD(5810.48)
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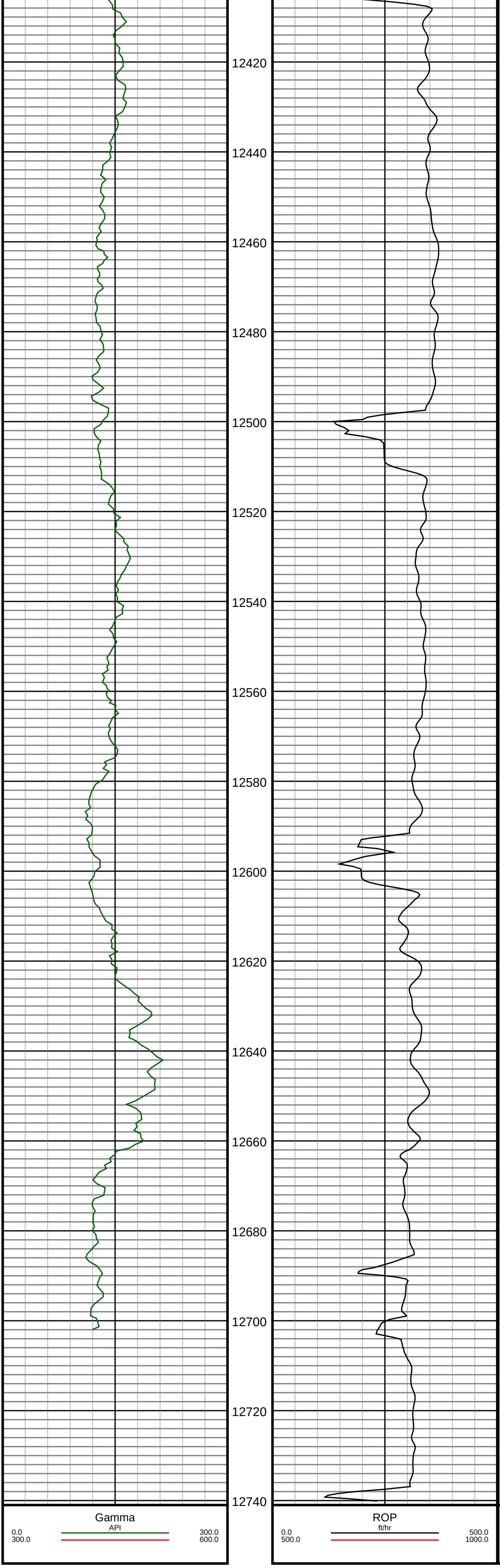

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#133 MD(12530.00) Inc(90.9) Azm(1.5) TVD(5812.39)
VS(6470.28) N/-S(6456.59) E/-W(-421.41)

#134 MD(12624.00) Inc(92.4) Azm(0.9) TVD(5809.71)
VS(6563.93) N/-S(6550.53) E/-W(-419.48)

#135 MD(12677.00) Inc(93.3) Azm(0.8) TVD(5807.06)
VS(6616.71) N/-S(6603.46) E/-W(-418.69)