Horsetail 08C-1739

MD
5":100'

Company: Whiting Petroleum Corp.
Well Name: Horsetail 08C-1739
API: 05-123-42848-00
County/Parish: Weld County
State: Colorado
Country: USA
Job number: GC-160039
Field: Wildcat
Rig Id: Unit 409
Survey Company: Precision Directional Services, Inc.

Log measurements: GR, ROP
Depth measured from:
Maximum temperature: 226

	Depth	**Date**
Start:	0 ft	5/24/2016
End:	16200 ft	5/28/2016

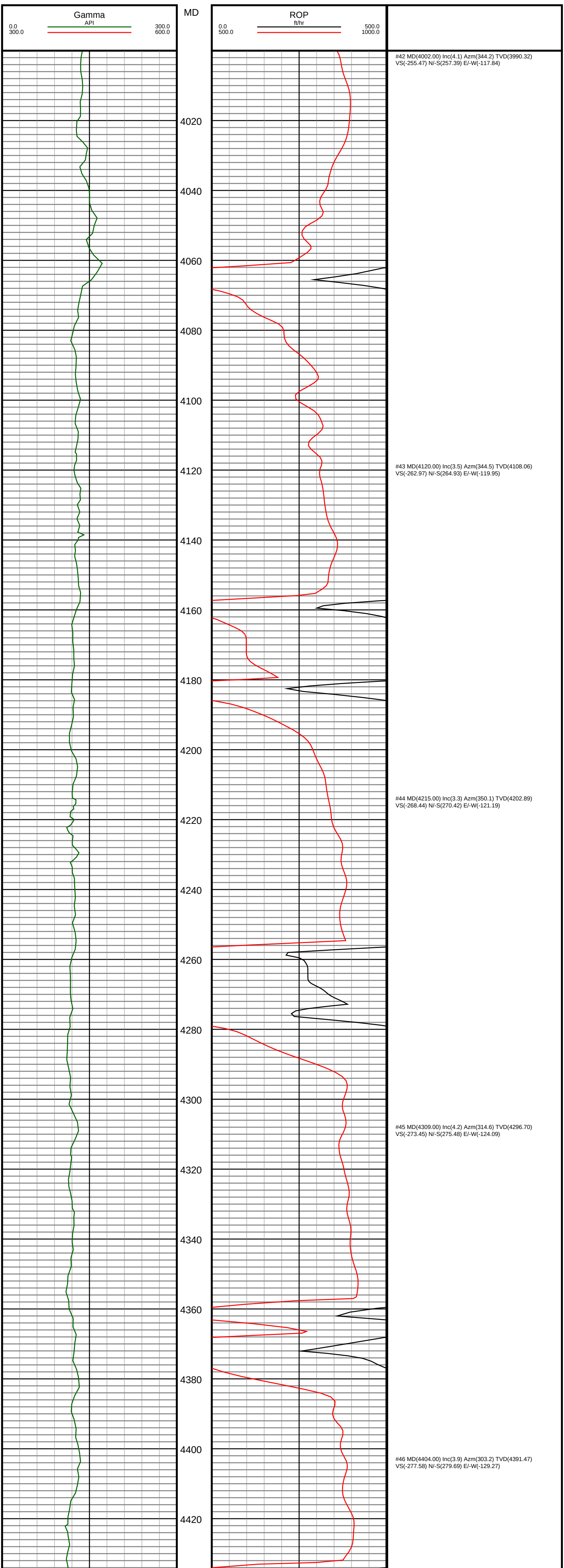
Casing	**Depth**	**Size**
Surface:	2035 ft	9 5/8"
Intermediate:	16200 ft	5 1/2"

Mud Type: WBM
Density: 10.5
Viscosity: 38
Rm: **Rmf:** **Rmc:**

Elevations
KB: 4934.3 ft
GL: 4913.3 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	2035 ft	5/24/2016	5/25/2016
2	8 1/2"	45.00 ft	58.00 ft	2035 ft	16200 ft	5/25/2016	5/28/2016
3							
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.



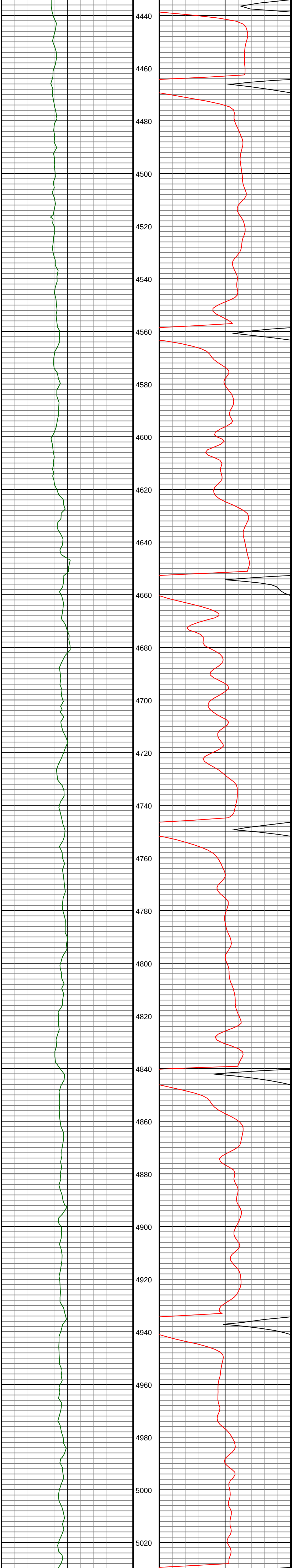
#42 MD(4002.00) Inc(4.1) Azm(344.2) TVD(3990.32)
VS(-255.47) N/-S(257.39) E/-W(-117.84)

#43 MD(4120.00) Inc(3.5) Azm(344.5) TVD(4108.06)
VS(-262.97) N/-S(264.93) E/-W(-119.95)

#44 MD(4215.00) Inc(3.3) Azm(350.1) TVD(4202.89)
VS(-268.44) N/-S(270.42) E/-W(-121.19)

#45 MD(4309.00) Inc(4.2) Azm(314.6) TVD(4296.70)
VS(-273.45) N/-S(275.48) E/-W(-124.09)

#46 MD(4404.00) Inc(3.9) Azm(303.2) TVD(4391.47)
VS(-277.58) N/-S(279.69) E/-W(-129.27)



#47 MD(4498.00) Inc(3.9) Azm(304.2) TVD(4485.25)
VS(-281.07) N/-S(283.26) E/-W(-134.62)

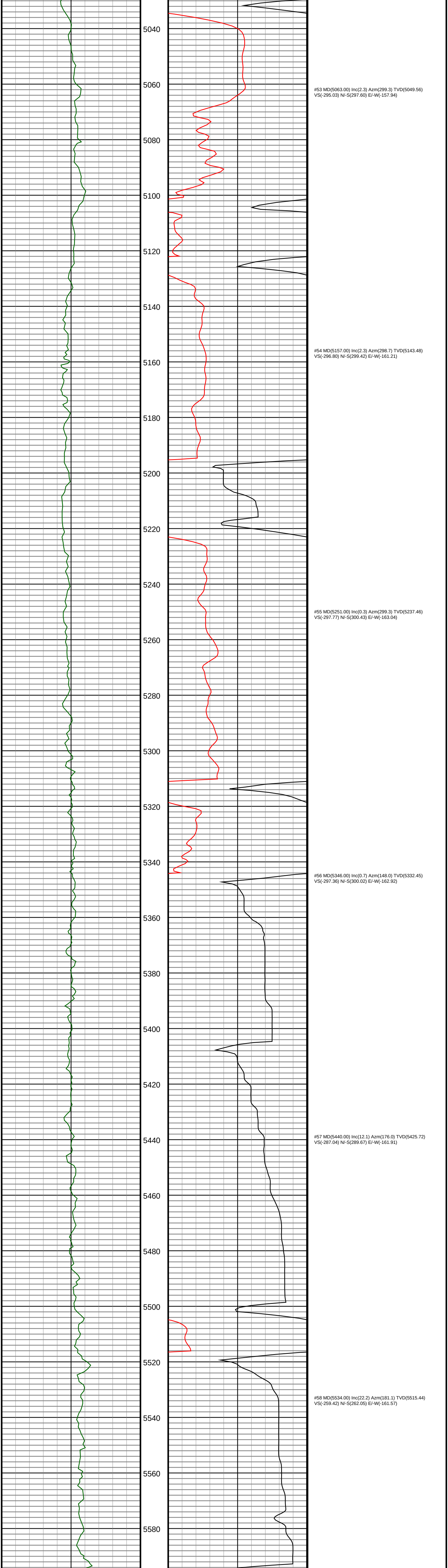
#48 MD(4592.00) Inc(3.5) Azm(302.7) TVD(4579.05)
VS(-284.34) N/-S(286.62) E/-W(-139.69)

#49 MD(4686.00) Inc(2.8) Azm(297.9) TVD(4672.91)
VS(-286.88) N/-S(289.23) E/-W(-144.12)

#50 MD(4780.00) Inc(2.9) Azm(301.5) TVD(4766.79)
VS(-289.11) N/-S(291.53) E/-W(-148.15)

#51 MD(4874.00) Inc(2.3) Azm(305.6) TVD(4860.70)
VS(-291.38) N/-S(293.85) E/-W(-151.68)

#52 MD(4969.00) Inc(2.1) Azm(299.3) TVD(4955.63)
VS(-293.29) N/-S(295.81) E/-W(-154.75)



#53 MD(5063.00) Inc(2.3) Azm(299.3) TVD(5049.56)
VS(-295.03) N/-S(297.60) E/-W(-157.94)

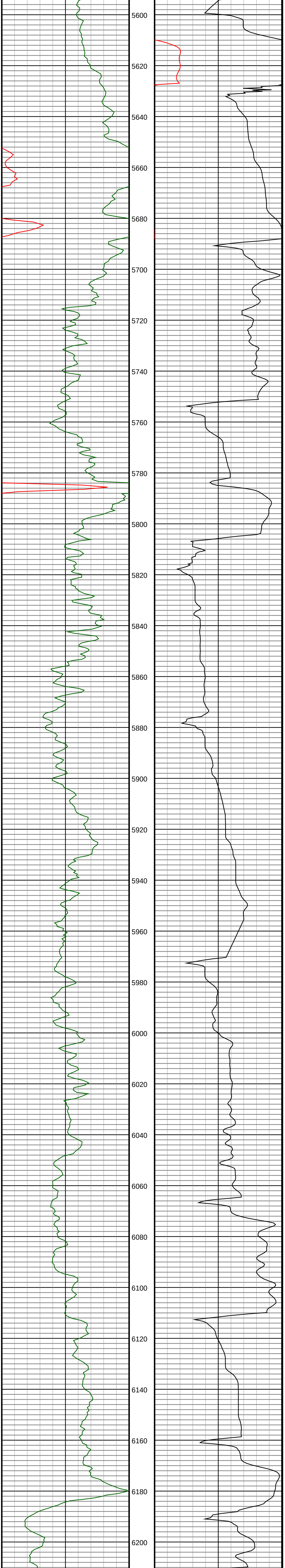
#54 MD(5157.00) Inc(2.3) Azm(298.7) TVD(5143.48)
VS(-296.80) N/-S(299.42) E/-W(-161.21)

#55 MD(5251.00) Inc(0.3) Azm(299.3) TVD(5237.46)
VS(-297.77) N/-S(300.43) E/-W(-163.04)

#56 MD(5346.00) Inc(0.7) Azm(148.0) TVD(5332.45)
VS(-297.36) N/-S(300.02) E/-W(-162.92)

#57 MD(5440.00) Inc(12.1) Azm(176.0) TVD(5425.72)
VS(-287.04) N/-S(289.67) E/-W(-161.91)

#58 MD(5534.00) Inc(22.2) Azm(181.1) TVD(5515.44)
VS(-259.42) N/-S(262.05) E/-W(-161.57)



#59 MD(5629.00) Inc(31.1) Azm(182.0) TVD(5600.26)
VS(-216.86) N/-S(219.50) E/-W(-162.76)

#60 MD(5723.00) Inc(37.2) Azm(185.4) TVD(5678.00)
VS(-164.17) N/-S(166.86) E/-W(-166.28)

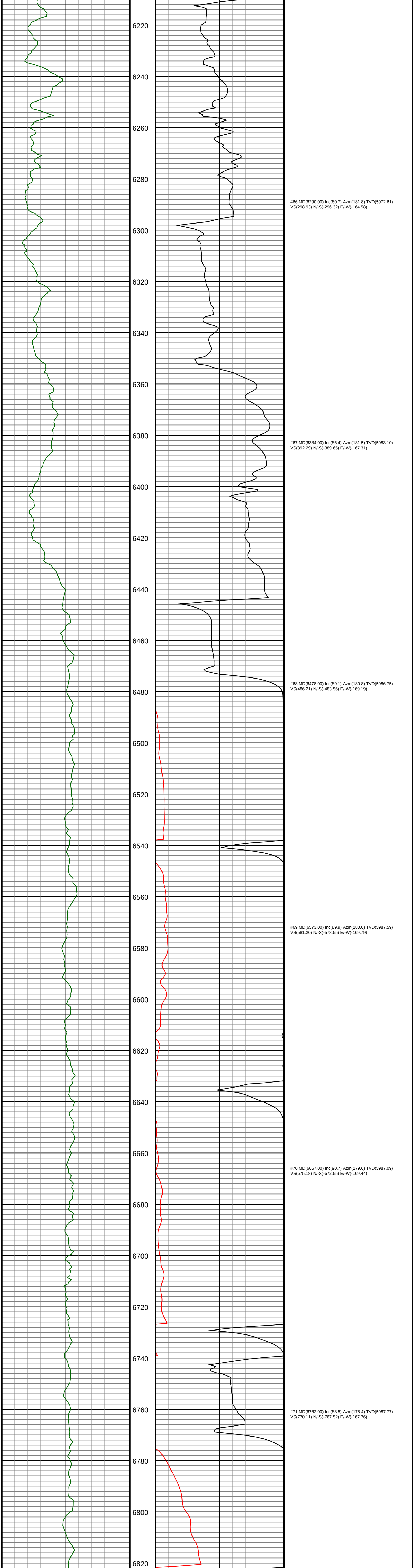
#61 MD(5818.00) Inc(38.7) Azm(181.0) TVD(5752.91)
VS(-105.81) N/-S(108.55) E/-W(-169.52)

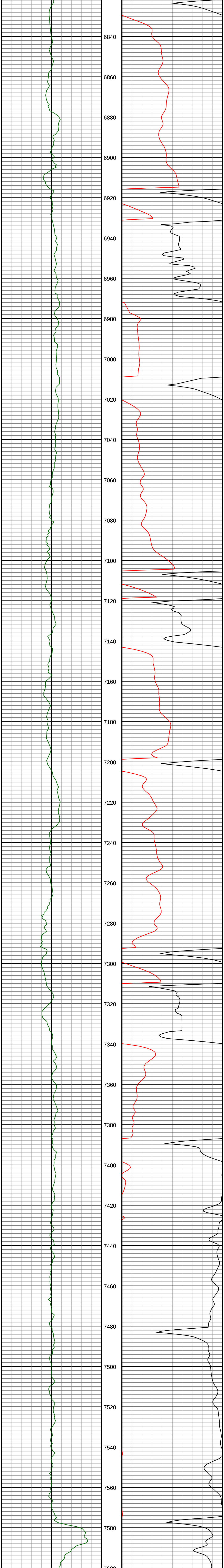
#62 MD(5912.00) Inc(47.2) Azm(179.1) TVD(5821.69)
VS(-41.87) N/-S(44.60) E/-W(-169.50)

#63 MD(6007.00) Inc(59.0) Azm(178.5) TVD(5878.64)
VS(33.90) N/-S(-31.21) E/-W(-167.85)

#64 MD(6101.00) Inc(67.3) Azm(178.2) TVD(5921.04)
VS(117.62) N/-S(-114.98) E/-W(-165.37)

#65 MD(6195.00) Inc(74.2) Azm(179.4) TVD(5952.00)
VS(206.25) N/-S(-203.65) E/-W(-163.53)





#72 MD(6856.00) Inc(87.9) Azm(177.4) TVD(5990.71)
VS(863.94) N/-S(-861.41) E/-W(-164.32)

#73 MD(6950.00) Inc(90.4) Azm(180.3) TVD(5992.04)
VS(957.85) N/-S(-955.36) E/-W(-162.44)

#74 MD(7045.00) Inc(91.5) Azm(180.3) TVD(5990.40)
VS(1052.83) N/-S(-1050.35) E/-W(-162.95)

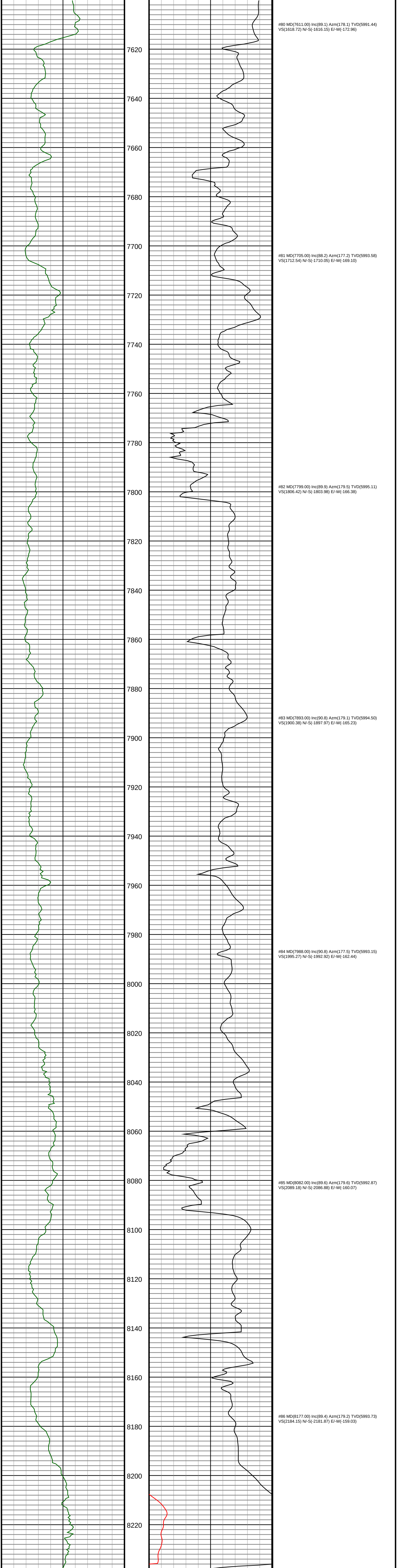
#75 MD(7139.00) Inc(90.3) Azm(181.5) TVD(5988.90)
VS(1146.81) N/-S(-1144.32) E/-W(-164.43)

#76 MD(7233.00) Inc(90.7) Azm(182.4) TVD(5988.10)
VS(1240.79) N/-S(-1238.26) E/-W(-167.60)

#77 MD(7328.00) Inc(89.1) Azm(181.1) TVD(5988.26)
VS(1335.78) N/-S(-1333.21) E/-W(-170.53)

#78 MD(7422.00) Inc(89.0) Azm(180.9) TVD(5989.78)
VS(1429.77) N/-S(-1427.19) E/-W(-172.21)

#79 MD(7517.00) Inc(89.9) Azm(180.9) TVD(5990.65)
VS(1524.76) N/-S(-1522.17) E/-W(-173.75)



#80 MD(7611.00) Inc(89.1) Azm(178.1) TVD(5991.44)
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#81 MD(7705.00) Inc(88.2) Azm(177.2) TVD(5993.58)
VS(1712.54) N/-S(-1710.05) E/-W(-169.10)

#82 MD(7799.00) Inc(89.9) Azm(179.5) TVD(5995.11)
VS(1806.42) N/-S(-1803.98) E/-W(-166.38)

#83 MD(7893.00) Inc(90.8) Azm(179.1) TVD(5994.50)
VS(1900.38) N/-S(-1897.97) E/-W(-165.23)

#84 MD(7988.00) Inc(90.8) Azm(177.5) TVD(5993.15)
VS(1995.27) N/-S(-1992.92) E/-W(-162.44)

#85 MD(8082.00) Inc(89.6) Azm(179.6) TVD(5992.87)
VS(2089.18) N/-S(-2086.88) E/-W(-160.07)

#86 MD(8177.00) Inc(89.4) Azm(179.2) TVD(5993.73)
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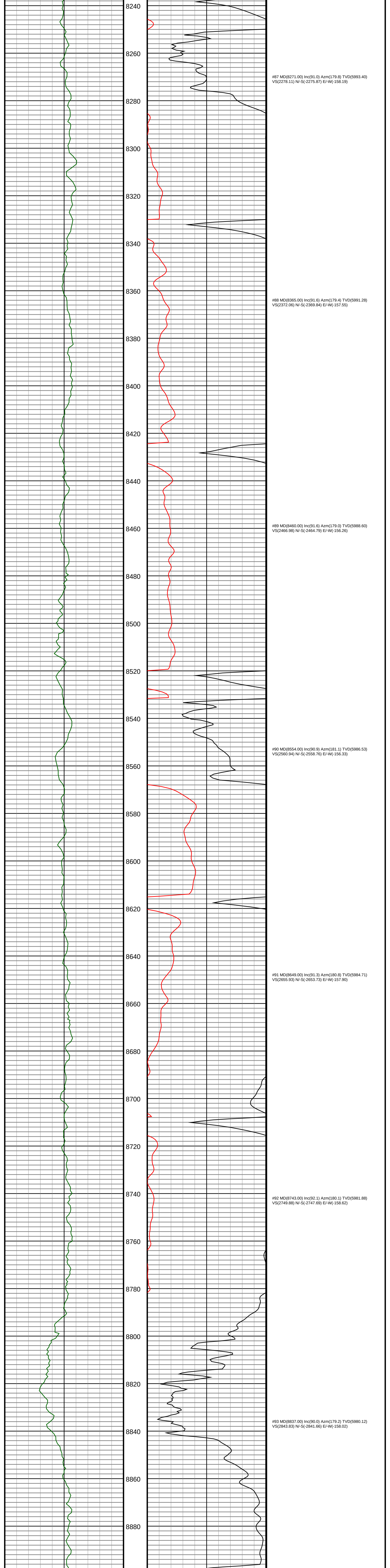


#87 MD(8271.00) Inc(91.0) Azm(179.8) TVD(5993.40)
VS(2278.11) N/-S(-2275.87) E/-W(-158.19)

#88 MD(8365.00) Inc(91.6) Azm(179.4) TVD(5991.28)
VS(2372.06) N/-S(-2369.84) E/-W(-157.55)

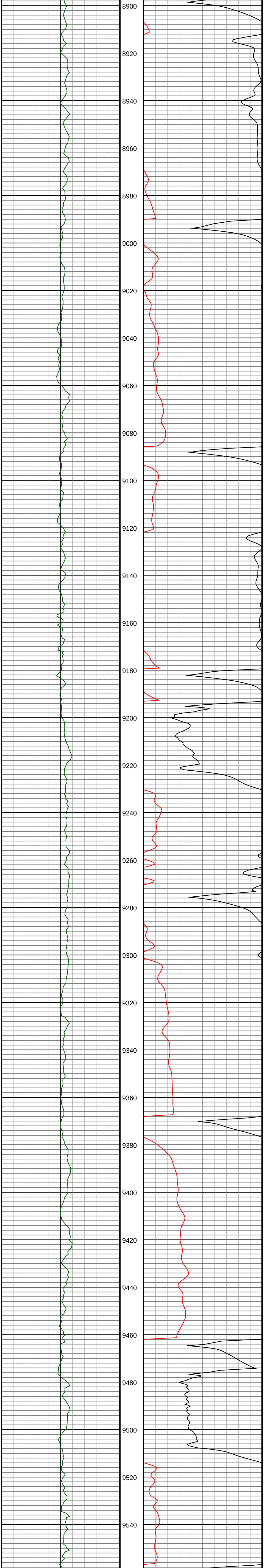
#89 MD(8460.00) Inc(91.6) Azm(179.0) TVD(5988.60)
VS(2466.98) N/-S(-2464.79) E/-W(-156.26)

#90 MD(8554.00) Inc(90.9) Azm(181.1) TVD(5986.53)
VS(2560.94) N/-S(-2558.76) E/-W(-156.33)

#91 MD(8649.00) Inc(91.3) Azm(180.8) TVD(5984.71)
VS(2655.93) N/-S(-2653.73) E/-W(-157.90)

#92 MD(8743.00) Inc(92.1) Azm(180.1) TVD(5981.88)
VS(2749.88) N/-S(-2747.69) E/-W(-158.62)

#93 MD(8837.00) Inc(90.0) Azm(179.2) TVD(5980.12)
VS(2843.83) N/-S(-2841.66) E/-W(-158.02)



#94 MD(8931.00) Inc(89.8) Azm(179.2) TVD(5980.27)
VS(2937.79) N/-S(-2935.65) E/-W(-156.71)

#95 MD(9026.00) Inc(89.2) Azm(179.0) TVD(5981.11)
VS(3032.74) N/-S(-3030.64) E/-W(-155.23)

#96 MD(9120.00) Inc(88.8) Azm(179.0) TVD(5982.75)
VS(3126.67) N/-S(-3124.61) E/-W(-153.62)

#97 MD(9214.00) Inc(89.5) Azm(180.5) TVD(5984.16)
VS(3220.64) N/-S(-3218.59) E/-W(-153.28)

#98 MD(9308.00) Inc(90.0) Azm(178.8) TVD(5984.59)
VS(3314.61) N/-S(-3312.59) E/-W(-152.77)

#99 MD(9403.00) Inc(91.3) Azm(178.1) TVD(5983.51)
VS(3409.52) N/-S(-3407.55) E/-W(-150.26)

#100 MD(9497.00) Inc(91.0) Azm(180.5) TVD(5981.60)
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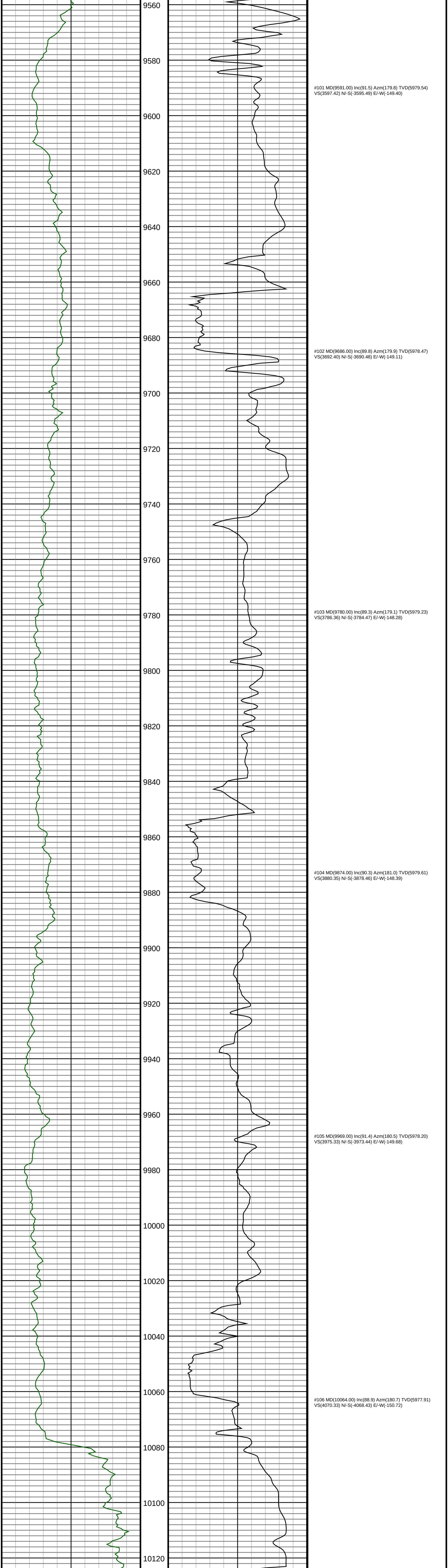

#101 MD(9591.00) Inc(91.5) Azm(179.8) TVD(5979.54)
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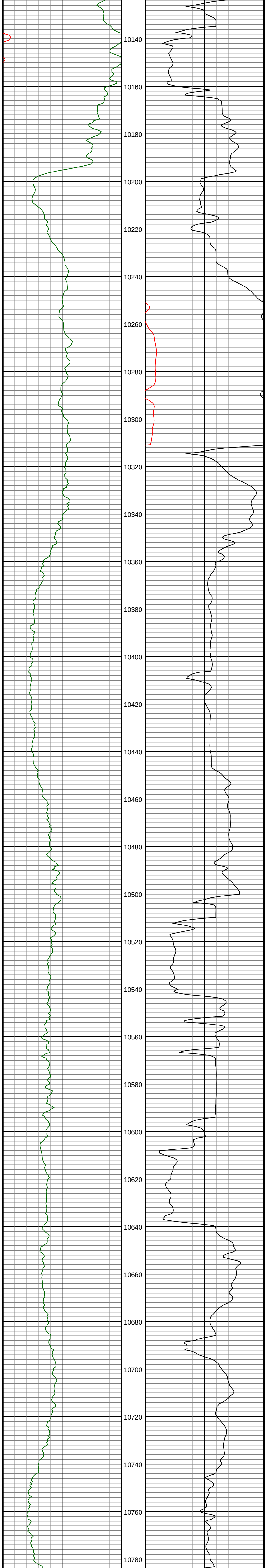
#102 MD(9686.00) Inc(89.8) Azm(179.9) TVD(5978.47)
VS(3692.40) N/-S(-3690.48) E/-W(-149.11)

#103 MD(9780.00) Inc(89.3) Azm(179.1) TVD(5979.23)
VS(3786.36) N/-S(-3784.47) E/-W(-148.28)

#104 MD(9874.00) Inc(90.3) Azm(181.0) TVD(5979.61)
VS(3880.35) N/-S(-3878.46) E/-W(-148.39)

#105 MD(9969.00) Inc(91.4) Azm(180.5) TVD(5978.20)
VS(3975.33) N/-S(-3973.44) E/-W(-149.68)

#106 MD(10064.00) Inc(88.9) Azm(180.7) TVD(5977.91)
VS(4070.33) N/-S(-4068.43) E/-W(-150.72)



#107 MD(10158.00) Inc(90.0) Azm(180.7) TVD(5978.78)
VS(4164.32) N/-S(-4162.42) E/-W(-151.86)

#108 MD(10252.00) Inc(91.0) Azm(180.2) TVD(5977.95)
VS(4258.31) N/-S(-4256.41) E/-W(-152.62)

#109 MD(10347.00) Inc(91.5) Azm(179.0) TVD(5975.87)
VS(4353.26) N/-S(-4351.38) E/-W(-151.99)

#110 MD(10441.00) Inc(92.7) Azm(178.1) TVD(5972.39)
VS(4447.11) N/-S(-4445.29) E/-W(-149.61)

#111 MD(10535.00) Inc(90.1) Azm(179.5) TVD(5970.07)
VS(4541.01) N/-S(-4539.23) E/-W(-147.65)

#112 MD(10630.00) Inc(87.6) Azm(180.5) TVD(5971.94)
VS(4635.97) N/-S(-4634.20) E/-W(-147.62)

#113 MD(10724.00) Inc(86.5) Azm(180.3) TVD(5976.75)
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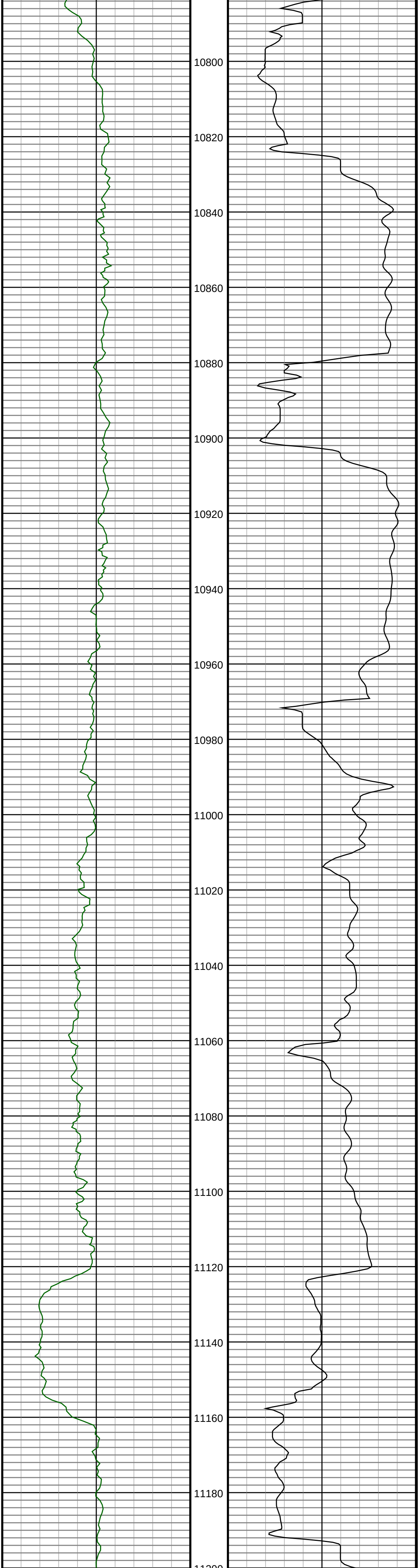

#114 MD(10818.00) Inc(88.8) Azm(181.8) TVD(5980.59)
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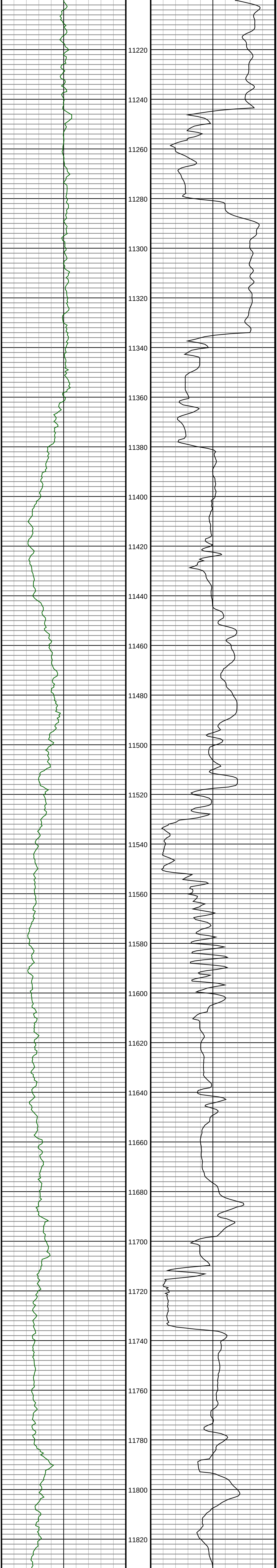
#115 MD(10910.00) Inc(91.2) Azm(182.0) TVD(5980.58)
VS(4915.74) N/-S(-4913.91) E/-W(-153.04)

#116 MD(11002.00) Inc(91.0) Azm(180.3) TVD(5978.85)
VS(5007.71) N/-S(-5005.87) E/-W(-154.85)

#117 MD(11093.00) Inc(89.9) Azm(177.3) TVD(5978.12)
VS(5098.64) N/-S(-5096.84) E/-W(-152.94)

#118 MD(11184.00) Inc(91.0) Azm(178.9) TVD(5977.36)
VS(5189.52) N/-S(-5187.78) E/-W(-149.96)



#119 MD(11276.00) Inc(91.3) Azm(179.3) TVD(5975.50)
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#120 MD(11367.00) Inc(92.6) Azm(181.1) TVD(5972.38)
VS(5372.39) N/-S(-5370.69) E/-W(-148.90)

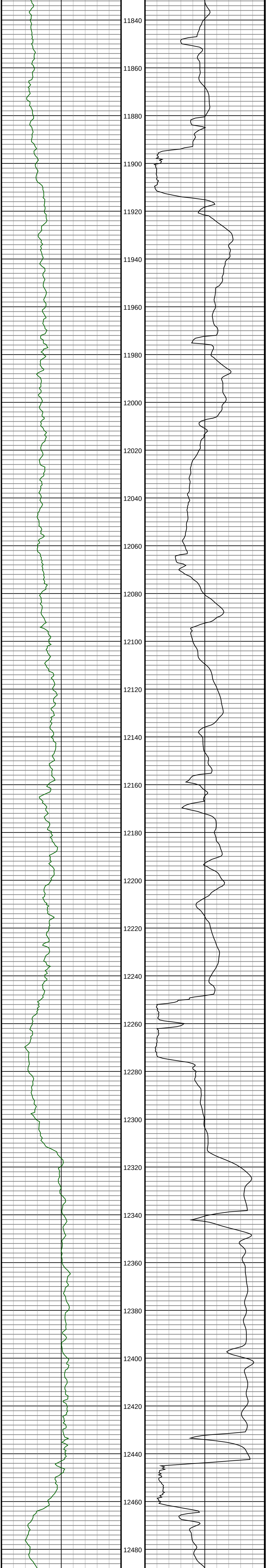
#121 MD(11457.00) Inc(93.7) Azm(181.1) TVD(5967.45)
VS(5462.26) N/-S(-5460.54) E/-W(-150.66)

#122 MD(11548.00) Inc(91.5) Azm(182.4) TVD(5963.37)
VS(5553.15) N/-S(-5551.40) E/-W(-153.44)

#123 MD(11639.00) Inc(92.4) Azm(182.5) TVD(5960.27)
VS(5644.06) N/-S(-5642.26) E/-W(-157.28)

#124 MD(11730.00) Inc(90.4) Azm(182.4) TVD(5958.02)
VS(5735.00) N/-S(-5733.15) E/-W(-161.11)

#125 MD(11822.00) Inc(89.8) Azm(180.5) TVD(5957.85)
VS(5826.99) N/-S(-5825.12) E/-W(-163.44)



#126 MD(11913.00) Inc(89.7) Azm(180.9) TVD(5958.25)
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#127 MD(12005.00) Inc(90.7) Azm(183.0) TVD(5957.94)
VS(6009.97) N/-S(-6008.05) E/-W(-167.65)

#128 MD(12096.00) Inc(89.6) Azm(180.0) TVD(5957.74)
VS(6100.95) N/-S(-6099.01) E/-W(-170.03)

#129 MD(12188.00) Inc(89.5) Azm(179.3) TVD(5958.53)
VS(6192.92) N/-S(-6191.00) E/-W(-169.50)

#130 MD(12280.00) Inc(89.8) Azm(181.4) TVD(5959.12)
VS(6284.91) N/-S(-6282.99) E/-W(-170.07)

#131 MD(12371.00) Inc(89.7) Azm(179.2) TVD(5959.48)
VS(6375.90) N/-S(-6373.99) E/-W(-170.52)

#132 MD(12462.00) Inc(90.8) Azm(179.0) TVD(5959.06)
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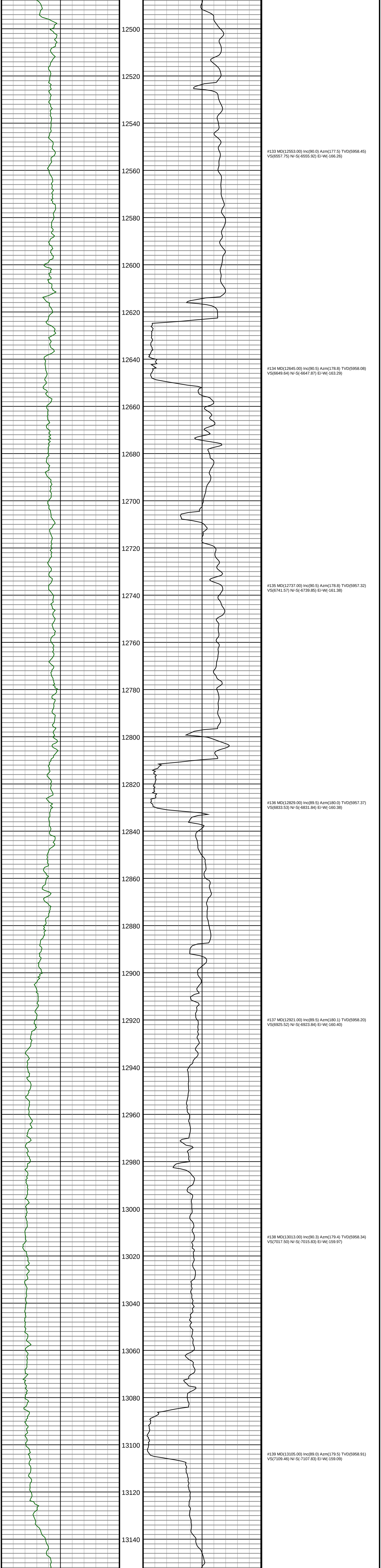

#133 MD(12553.00) Inc(90.0) Azm(177.5) TVD(5958.45)
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#134 MD(12645.00) Inc(90.5) Azm(178.8) TVD(5958.08)
VS(6649.64) N/-S(-6647.87) E/-W(-163.29)

#135 MD(12737.00) Inc(90.5) Azm(178.8) TVD(5957.32)
VS(6741.57) N/-S(-6739.85) E/-W(-161.38)

#136 MD(12829.00) Inc(89.5) Azm(180.0) TVD(5957.37)
VS(6833.53) N/-S(-6831.84) E/-W(-160.38)

#137 MD(12921.00) Inc(89.5) Azm(180.1) TVD(5958.20)
VS(6925.52) N/-S(-6923.84) E/-W(-160.40)

#138 MD(13013.00) Inc(90.3) Azm(179.4) TVD(5958.34)
VS(7017.50) N/-S(-7015.83) E/-W(-159.97)

#139 MD(13105.00) Inc(89.0) Azm(179.5) TVD(5958.91)
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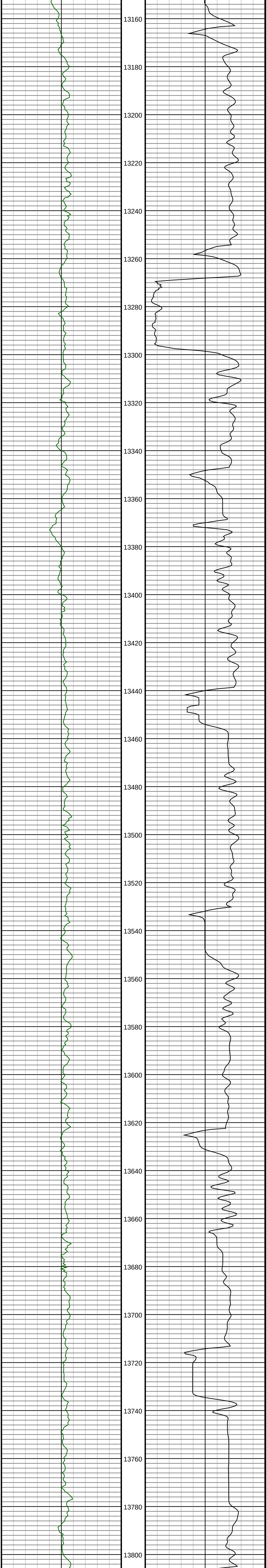

#140 MD(13196.00) Inc(89.1) Azm(178.1) TVD(5960.47)
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#141 MD(13288.00) Inc(88.9) Azm(179.5) TVD(5962.10)
VS(7292.30) N/-S(-7290.75) E/-W(-155.21)

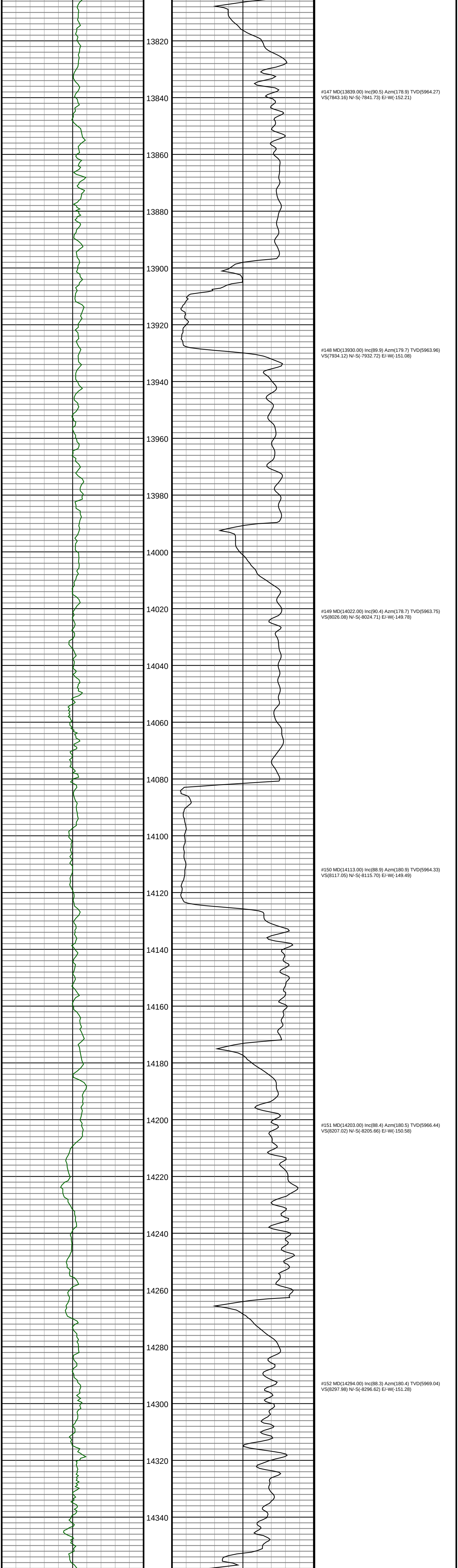
#142 MD(13380.00) Inc(89.9) Azm(179.8) TVD(5963.06)
VS(7384.28) N/-S(-7382.74) E/-W(-154.64)

#143 MD(13472.00) Inc(90.3) Azm(180.1) TVD(5962.89)
VS(7476.26) N/-S(-7474.74) E/-W(-154.54)

#144 MD(13563.00) Inc(89.8) Azm(179.8) TVD(5962.80)
VS(7567.25) N/-S(-7565.74) E/-W(-154.39)

#145 MD(13655.00) Inc(89.6) Azm(179.6) TVD(5963.28)
VS(7659.22) N/-S(-7657.74) E/-W(-153.87)

#146 MD(13747.00) Inc(89.4) Azm(179.7) TVD(5964.13)
VS(7751.20) N/-S(-7749.73) E/-W(-153.30)



#147 MD(13839.00) Inc(90.5) Azm(178.9) TVD(5964.27)
VS(7843.16) N/-S(-7841.73) E/-W(-152.21)

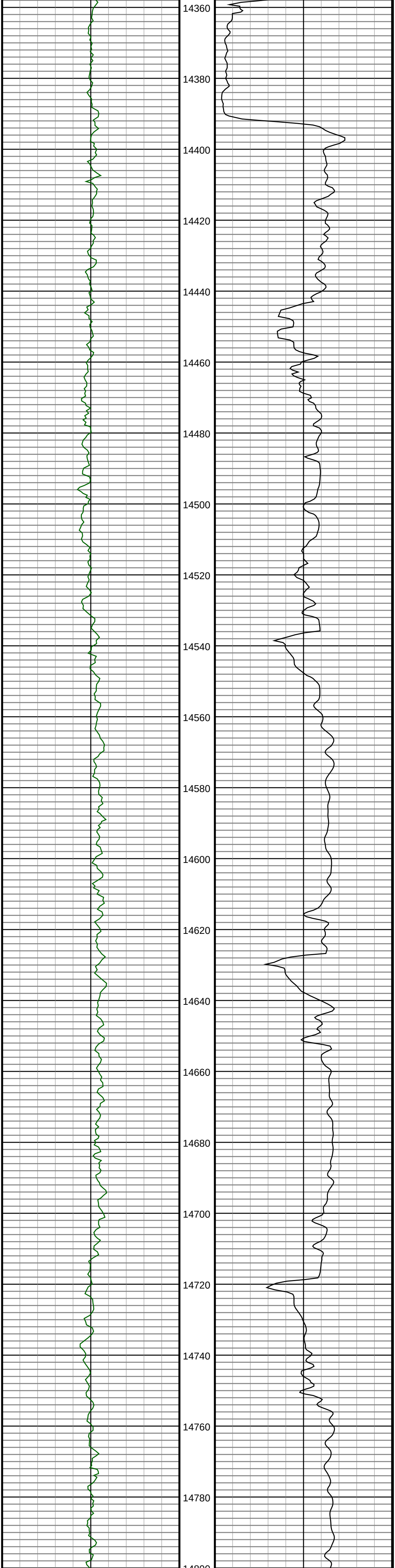
#148 MD(13930.00) Inc(89.9) Azm(179.7) TVD(5963.96)
VS(7934.12) N/-S(-7932.72) E/-W(-151.08)

#149 MD(14022.00) Inc(90.4) Azm(178.7) TVD(5963.75)
VS(8026.08) N/-S(-8024.71) E/-W(-149.78)

#150 MD(14113.00) Inc(88.9) Azm(180.9) TVD(5964.33)
VS(8117.05) N/-S(-8115.70) E/-W(-149.49)

#151 MD(14203.00) Inc(88.4) Azm(180.5) TVD(5966.44)
VS(8207.02) N/-S(-8205.66) E/-W(-150.58)

#152 MD(14294.00) Inc(88.3) Azm(180.4) TVD(5969.04)
VS(8297.98) N/-S(-8296.62) E/-W(-151.28)



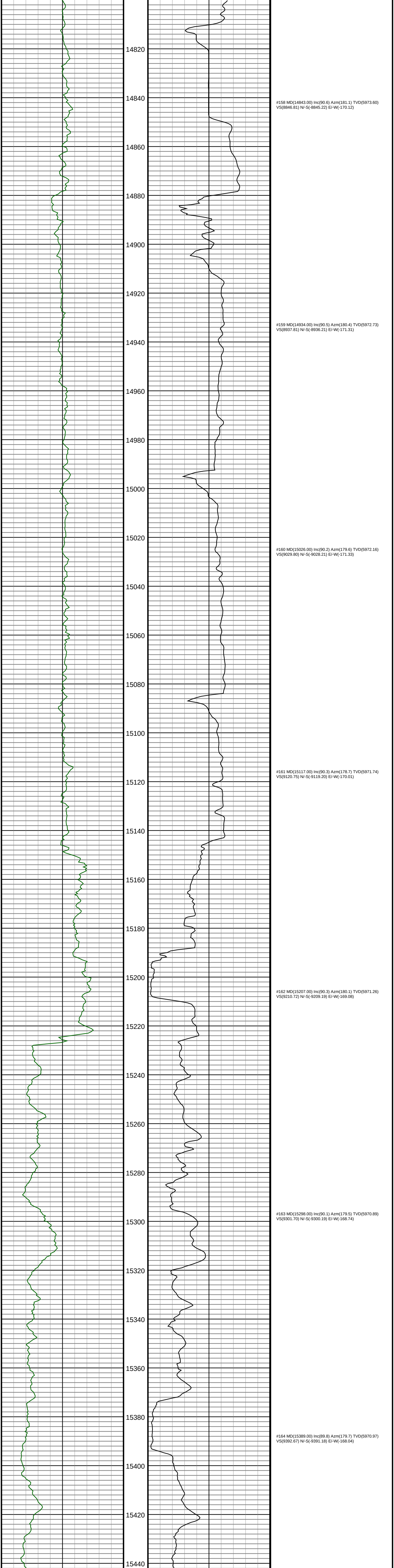
#153 MD(14385.00) Inc(88.6) Azm(182.3) TVD(5971.52)
VS(8388.94) N/-S(-8387.56) E/-W(-153.48)

#154 MD(14476.00) Inc(89.5) Azm(182.1) TVD(5973.04)
VS(8479.90) N/-S(-8478.48) E/-W(-157.04)

#155 MD(14568.00) Inc(89.2) Azm(182.3) TVD(5974.08)
VS(8571.88) N/-S(-8570.40) E/-W(-160.56)

#156 MD(14659.00) Inc(90.1) Azm(182.4) TVD(5974.66)
VS(8662.85) N/-S(-8661.32) E/-W(-164.28)

#157 MD(14751.00) Inc(90.3) Azm(181.9) TVD(5974.34)
VS(8754.82) N/-S(-8753.26) E/-W(-167.73)



#158 MD(14843.00) Inc(90.6) Azm(181.1) TVD(5973.60)
VS(8846.81) N/-S(-8845.22) E/-W(-170.12)

#159 MD(14934.00) Inc(90.5) Azm(180.4) TVD(5972.73)
VS(8937.81) N/-S(-8936.21) E/-W(-171.31)

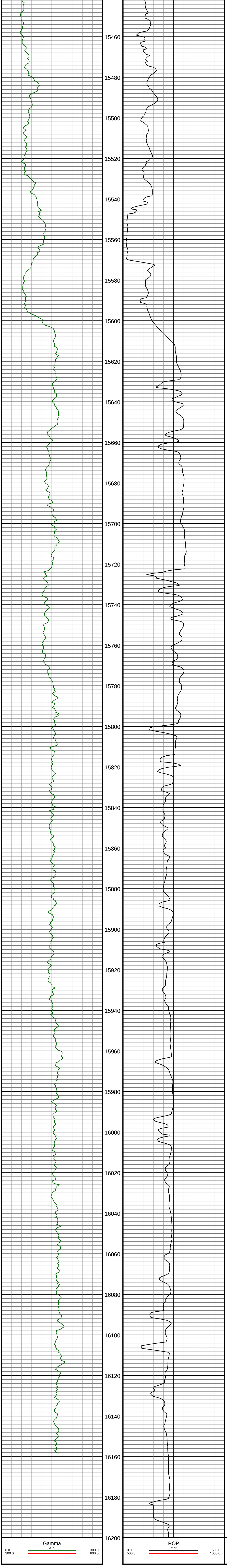
#160 MD(15026.00) Inc(90.2) Azm(179.6) TVD(5972.16)
VS(9029.80) N/-S(-9028.21) E/-W(-171.33)

#161 MD(15117.00) Inc(90.3) Azm(178.7) TVD(5971.74)
VS(9120.75) N/-S(-9119.20) E/-W(-170.01)

#162 MD(15207.00) Inc(90.3) Azm(180.1) TVD(5971.26)
VS(9210.72) N/-S(-9209.19) E/-W(-169.08)

#163 MD(15298.00) Inc(90.1) Azm(179.5) TVD(5970.89)
VS(9301.70) N/-S(-9300.19) E/-W(-168.74)

#164 MD(15389.00) Inc(89.8) Azm(179.7) TVD(5970.97)
VS(9392.67) N/-S(-9391.18) E/-W(-168.04)



#165 MD(15480.00) Inc(90.0) Azm(179.2) TVD(5971.19)
VS(9483.64) N/-S(-9482.18) E/-W(-167.15)

#166 MD(15571.00) Inc(87.9) Azm(180.2) TVD(5972.86)
VS(9574.60) N/-S(-9573.16) E/-W(-166.71)

#167 MD(15663.00) Inc(87.9) Azm(179.0) TVD(5976.19)
VS(9666.51) N/-S(-9665.09) E/-W(-166.06)

#168 MD(15755.00) Inc(89.2) Azm(178.8) TVD(5978.49)
VS(9758.42) N/-S(-9757.04) E/-W(-164.25)

#169 MD(15847.00) Inc(89.7) Azm(178.5) TVD(5979.35)
VS(9850.35) N/-S(-9849.01) E/-W(-162.09)

#170 MD(15938.00) Inc(89.8) Azm(177.8) TVD(5979.70)
VS(9941.24) N/-S(-9939.97) E/-W(-159.19)

#171 MD(16029.00) Inc(90.0) Azm(177.4) TVD(5979.86)
VS(10032.09) N/-S(-10030.89) E/-W(-155.40)

#172 MD(16121.00) Inc(89.5) Azm(177.4) TVD(5980.28)
VS(10123.92) N/-S(-10122.79) E/-W(-151.26)