Wilmoth E 5A-312

MD
2":100'

Company: Petroleum Development Corp.
Well Name: Wilmoth E 5A-312
API: 051234548400
County/Parish: Weld
State: Colorado
Country: United States
Job number: 161-151
Field: Wattenburg
Rig Id: Ensign 161
Survey Company: Ensign
Operator: Petroleum Development Corp.
Company Man: Brady Sharp / John Falton
Daylight DD: Zach Gentry
Swing Shift DD: Tony Callow
Night DD: Eric Mays
Daylight MWD: Ryan Prue
Night MWD: Chad Anderson

Log measurements: Gamma, ROP
Depth measured from: 1661 ft
Maximum temperature: 226.1

	Depth	Date
Start:	0 ft	11-11-2018
End:	16434 ft	11-15-2018

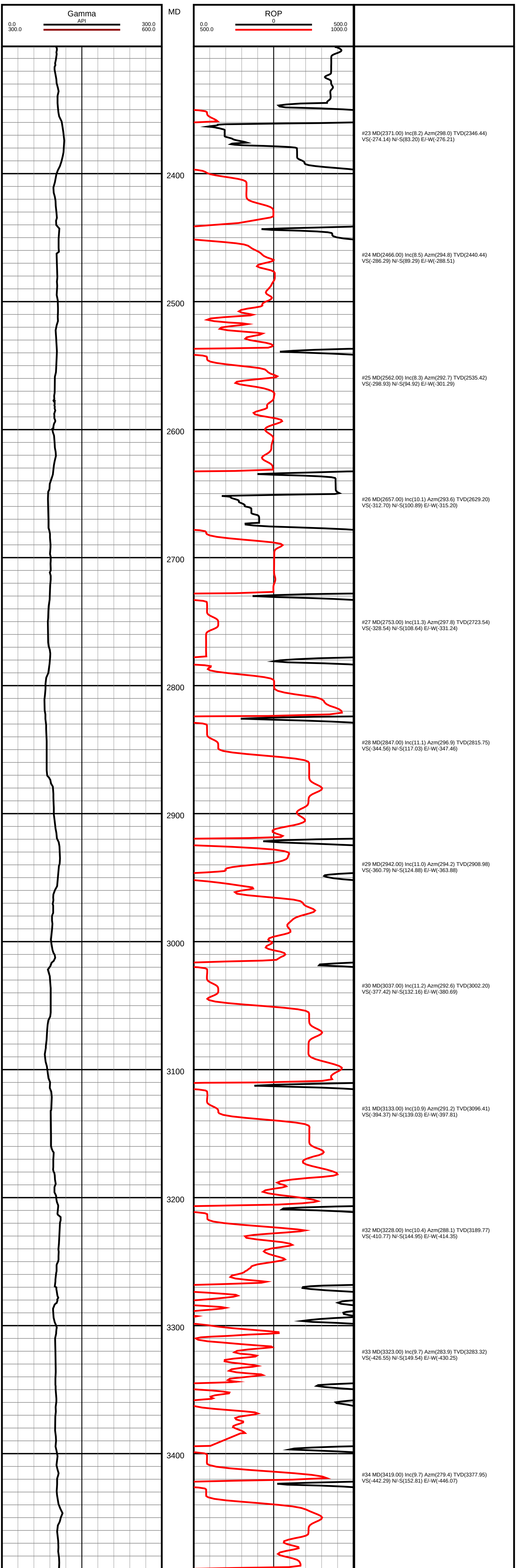
Casing	Depth	Size
Surface:	1657 ft	9 5/8"
Intermediate:		

Mud Type: H2O
Density:
Viscosity:
Rm: **Rmf:** **Rmc:**

Elevations
KB: 23 ft
GL: 4739 ft
DF: 4762 ft

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	12.25"			0 ft	1681 ft	11-11-2018	11-12-2018
2	8.5"	73.99 ft	69.16 ft	1681 ft	16434 ft	11-12-2018	11-15-2018
3							
4							
5							
6							
7							
8							
9							
10							

Ensign 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.



#23 MD(2371.00) Inc(8.2) Azm(298.0) TVD(2346.44) VS(-274.14) N/-S(83.20) E/-W(-276.21)

#24 MD(2466.00) Inc(8.5) Azm(294.8) TVD(2440.44) VS(-286.29) N/-S(89.29) E/-W(-288.51)

#25 MD(2562.00) Inc(8.3) Azm(292.7) TVD(2535.42) VS(-298.93) N/-S(94.92) E/-W(-301.29)

#26 MD(2657.00) Inc(10.1) Azm(293.6) TVD(2629.20) VS(-312.70) N/-S(100.89) E/-W(-315.20)

#27 MD(2753.00) Inc(11.3) Azm(297.8) TVD(2723.54) VS(-328.54) N/-S(108.64) E/-W(-331.24)

#28 MD(2847.00) Inc(11.1) Azm(296.9) TVD(2815.75) VS(-344.56) N/-S(117.03) E/-W(-347.46)

#29 MD(2942.00) Inc(11.0) Azm(294.2) TVD(2908.98) VS(-360.79) N/-S(124.88) E/-W(-363.88)

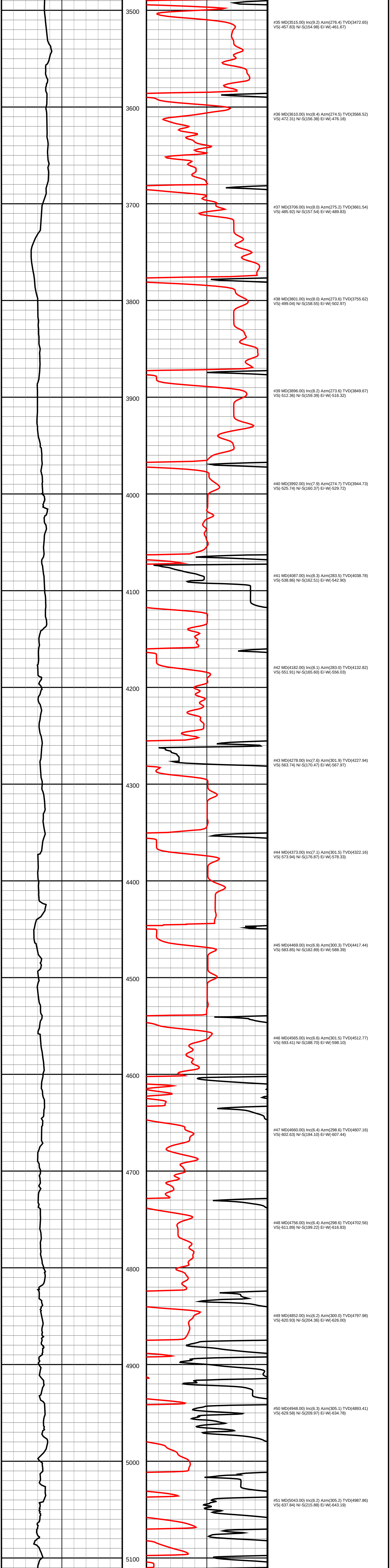
#30 MD(3037.00) Inc(11.2) Azm(292.6) TVD(3002.20) VS(-377.42) N/-S(132.16) E/-W(-380.69)

#31 MD(3133.00) Inc(10.9) Azm(291.2) TVD(3096.41) VS(-394.37) N/-S(139.03) E/-W(-397.81)

#32 MD(3228.00) Inc(10.4) Azm(288.1) TVD(3189.77) VS(-410.77) N/-S(144.95) E/-W(-414.35)

#33 MD(3323.00) Inc(9.7) Azm(283.9) TVD(3283.32) VS(-426.55) N/-S(149.54) E/-W(-430.25)

#34 MD(3419.00) Inc(9.7) Azm(279.4) TVD(3377.95) VS(-442.29) N/-S(152.81) E/-W(-446.07)



#35 MD(3515.00) Inc(9.2) Azm(276.4) TVD(3472.65)
VS(-457.83) N/-S(154.98) E/-W(-461.67)

#36 MD(3610.00) Inc(8.4) Azm(274.5) TVD(3566.52)
VS(-472.31) N/-S(156.38) E/-W(-476.18)

#37 MD(3706.00) Inc(8.0) Azm(275.2) TVD(3661.54)
VS(-485.92) N/-S(157.54) E/-W(-489.83)

#38 MD(3801.00) Inc(8.0) Azm(273.6) TVD(3755.62)
VS(-499.04) N/-S(158.55) E/-W(-502.97)

#39 MD(3896.00) Inc(8.2) Azm(273.6) TVD(3849.67)
VS(-512.36) N/-S(159.39) E/-W(-516.32)

#40 MD(3992.00) Inc(7.9) Azm(274.7) TVD(3944.73)
VS(-525.74) N/-S(160.37) E/-W(-529.72)

#41 MD(4087.00) Inc(8.3) Azm(283.5) TVD(4038.78)
VS(-538.86) N/-S(162.51) E/-W(-542.90)

#42 MD(4182.00) Inc(8.1) Azm(283.0) TVD(4132.82)
VS(-551.91) N/-S(165.60) E/-W(-556.03)

#43 MD(4278.00) Inc(7.6) Azm(301.9) TVD(4227.94)
VS(-563.74) N/-S(170.47) E/-W(-567.97)

#44 MD(4373.00) Inc(7.1) Azm(301.5) TVD(4322.16)
VS(-573.94) N/-S(176.87) E/-W(-578.33)

#45 MD(4469.00) Inc(6.9) Azm(300.3) TVD(4417.44)
VS(-583.85) N/-S(182.89) E/-W(-588.39)

#46 MD(4565.00) Inc(6.6) Azm(301.5) TVD(4512.77)
VS(-593.41) N/-S(188.70) E/-W(-598.10)

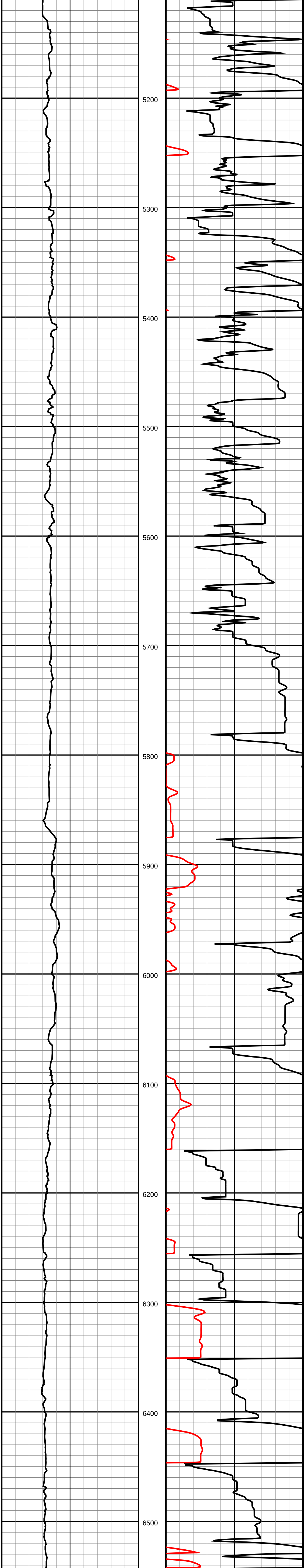
#47 MD(4660.00) Inc(6.4) Azm(298.6) TVD(4607.16)
VS(-602.63) N/-S(194.10) E/-W(-607.44)

#48 MD(4756.00) Inc(6.4) Azm(298.6) TVD(4702.56)
VS(-611.89) N/-S(199.22) E/-W(-616.83)

#49 MD(4852.00) Inc(6.2) Azm(300.0) TVD(4797.98)
VS(-620.93) N/-S(204.36) E/-W(-626.00)

#50 MD(4948.00) Inc(6.3) Azm(305.1) TVD(4893.41)
VS(-629.58) N/-S(209.97) E/-W(-634.78)

#51 MD(5043.00) Inc(6.2) Azm(305.2) TVD(4987.86)
VS(-637.84) N/-S(215.88) E/-W(-643.19)



#52 MD(5139.00) Inc(5.0) Azm(276.5) TVD(5083.42)
VS(-646.10) N/-S(219.32) E/-W(-651.53)

#53 MD(5234.00) Inc(2.3) Azm(248.3) TVD(5178.23)
VS(-651.94) N/-S(219.09) E/-W(-657.36)

#54 MD(5329.00) Inc(0.8) Azm(114.4) TVD(5273.21)
VS(-653.08) N/-S(218.10) E/-W(-658.48)

#55 MD(5425.00) Inc(0.6) Azm(114.8) TVD(5369.20)
VS(-652.00) N/-S(217.60) E/-W(-657.40)

#56 MD(5520.00) Inc(0.3) Azm(64.8) TVD(5464.20)
VS(-651.37) N/-S(217.49) E/-W(-656.76)

#57 MD(5615.00) Inc(0.8) Azm(74.5) TVD(5559.19)
VS(-650.54) N/-S(217.75) E/-W(-655.93)

#58 MD(5710.00) Inc(0.8) Azm(87.6) TVD(5654.18)
VS(-649.20) N/-S(217.96) E/-W(-654.59)

#59 MD(5806.00) Inc(1.0) Azm(87.4) TVD(5750.17)
VS(-647.66) N/-S(218.03) E/-W(-653.05)

#60 MD(5901.00) Inc(0.8) Azm(92.2) TVD(5845.16)
VS(-646.17) N/-S(218.04) E/-W(-651.57)

#61 MD(5996.00) Inc(0.9) Azm(81.0) TVD(5940.15)
VS(-644.76) N/-S(218.13) E/-W(-650.16)

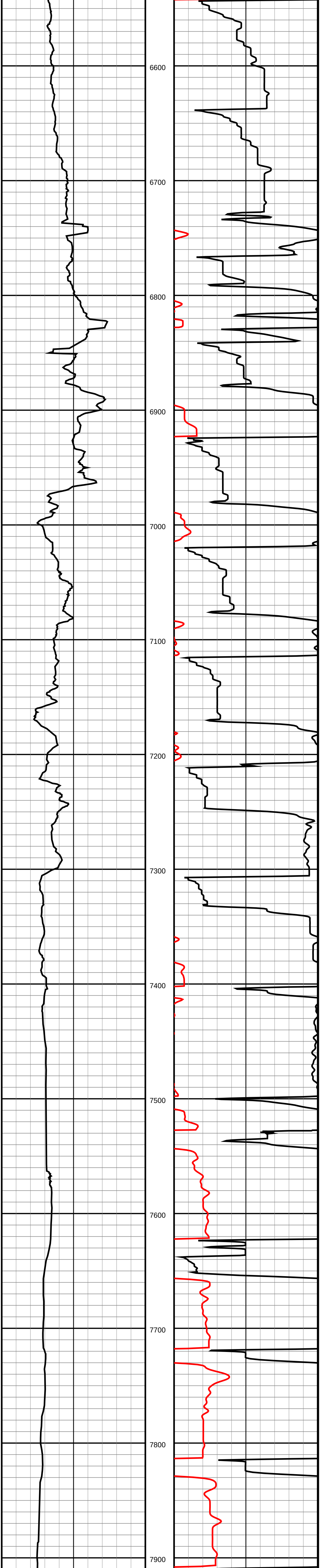
#62 MD(6091.00) Inc(0.7) Azm(65.8) TVD(6035.14)
VS(-643.45) N/-S(218.50) E/-W(-648.86)

#63 MD(6186.00) Inc(5.0) Azm(94.2) TVD(6130.00)
VS(-638.78) N/-S(218.45) E/-W(-644.19)

#64 MD(6281.00) Inc(10.6) Azm(106.7) TVD(6224.09)
VS(-626.33) N/-S(215.62) E/-W(-631.67)

#65 MD(6377.00) Inc(14.7) Azm(98.0) TVD(6317.73)
VS(-605.86) N/-S(211.38) E/-W(-611.08)

#66 MD(6472.00) Inc(19.2) Azm(87.9) TVD(6408.59)
VS(-578.27) N/-S(210.26) E/-W(-583.46)



#67 MD(6567.00) Inc(26.1) Azm(89.6) TVD(6496.20)
VS(-541.70) N/-S(211.00) E/-W(-546.90)

#68 MD(6662.00) Inc(39.2) Azm(93.3) TVD(6576.03)
VS(-490.66) N/-S(209.43) E/-W(-495.81)

#69 MD(6758.00) Inc(49.1) Azm(92.9) TVD(6644.79)
VS(-424.04) N/-S(205.86) E/-W(-429.09)

#70 MD(6854.00) Inc(53.2) Azm(92.8) TVD(6705.01)
VS(-349.50) N/-S(202.15) E/-W(-354.44)

#71 MD(6949.00) Inc(59.4) Azm(91.2) TVD(6757.71)
VS(-270.66) N/-S(199.46) E/-W(-275.51)

#72 MD(7045.00) Inc(67.5) Azm(91.2) TVD(6800.54)
VS(-184.92) N/-S(197.71) E/-W(-189.70)

#73 MD(7141.00) Inc(76.0) Azm(89.4) TVD(6830.51)
VS(-93.85) N/-S(197.24) E/-W(-98.59)

#74 MD(7236.00) Inc(84.2) Azm(88.9) TVD(6846.81) VS(-0.34)
N/-S(198.60) E/-W(-5.09)

#75 MD(7332.00) Inc(89.0) Azm(88.6) TVD(6852.56) VS(95.46)
N/-S(200.72) E/-W(90.68)

#76 MD(7427.00) Inc(89.5) Azm(88.3) TVD(6853.86)
VS(190.45) N/-S(203.30) E/-W(185.64)

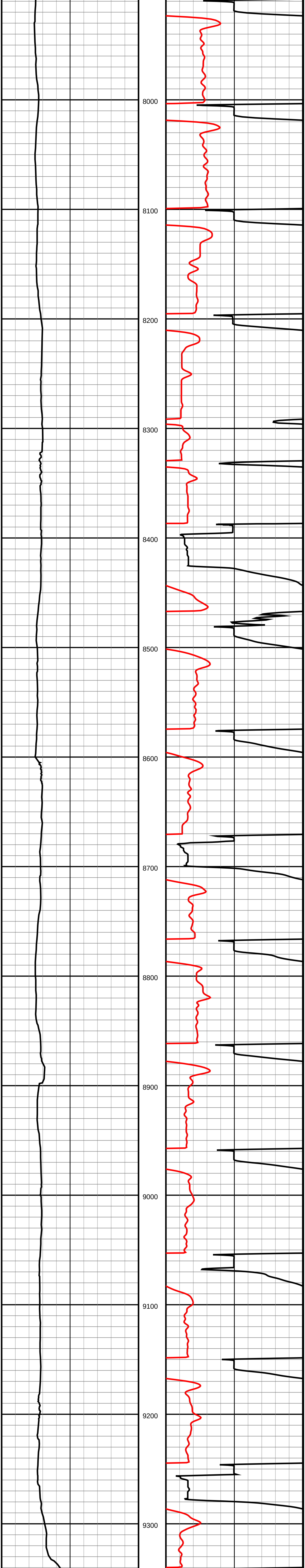
#77 MD(7457.00) Inc(89.6) Azm(88.4) TVD(6854.10)
VS(220.45) N/-S(204.16) E/-W(215.63)

#78 MD(7552.00) Inc(90.0) Azm(88.1) TVD(6854.48)
VS(315.44) N/-S(207.08) E/-W(310.58)

#79 MD(7647.00) Inc(90.3) Azm(89.6) TVD(6854.22)
VS(410.44) N/-S(209.02) E/-W(405.56)

#80 MD(7742.00) Inc(90.4) Azm(90.3) TVD(6853.59)
VS(505.41) N/-S(209.12) E/-W(500.55)

#81 MD(7838.00) Inc(90.5) Azm(90.3) TVD(6852.81)
VS(601.37) N/-S(208.62) E/-W(596.55)



#82 MD(7933.00) Inc(90.3) Azm(89.6) TVD(6852.12)
VS(696.34) N/-S(208.70) E/-W(691.55)

#83 MD(8029.00) Inc(90.5) Azm(89.5) TVD(6851.43)
VS(792.32) N/-S(209.42) E/-W(787.54)

#84 MD(8124.00) Inc(90.8) Azm(88.9) TVD(6850.35)
VS(887.31) N/-S(210.78) E/-W(882.53)

#85 MD(8220.00) Inc(90.9) Azm(88.0) TVD(6848.88)
VS(983.30) N/-S(213.39) E/-W(978.48)

#86 MD(8315.00) Inc(90.5) Azm(87.0) TVD(6847.70)
VS(1078.27) N/-S(217.56) E/-W(1073.38)

#87 MD(8410.00) Inc(90.0) Azm(89.1) TVD(6847.26)
VS(1173.26) N/-S(220.82) E/-W(1168.31)

#88 MD(8506.00) Inc(90.4) Azm(90.2) TVD(6846.93)
VS(1269.24) N/-S(221.42) E/-W(1264.31)

#89 MD(8602.00) Inc(91.0) Azm(89.6) TVD(6845.78)
VS(1365.21) N/-S(221.58) E/-W(1360.30)

#90 MD(8697.00) Inc(89.6) Azm(91.7) TVD(6845.31)
VS(1460.14) N/-S(220.53) E/-W(1455.29)

#91 MD(8793.00) Inc(89.8) Azm(91.1) TVD(6845.88)
VS(1556.03) N/-S(218.18) E/-W(1551.26)

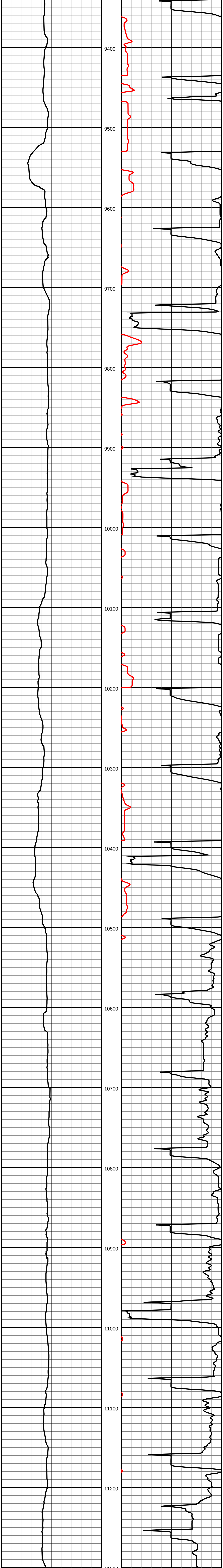
#92 MD(8889.00) Inc(89.7) Azm(91.0) TVD(6846.31)
VS(1651.94) N/-S(216.38) E/-W(1647.24)

#93 MD(8984.00) Inc(90.5) Azm(90.7) TVD(6846.08)
VS(1746.87) N/-S(214.93) E/-W(1742.23)

#94 MD(9079.00) Inc(91.5) Azm(90.6) TVD(6844.41)
VS(1841.79) N/-S(213.83) E/-W(1837.20)

#95 MD(9175.00) Inc(92.5) Azm(90.4) TVD(6841.04)
VS(1937.68) N/-S(212.99) E/-W(1933.14)

#96 MD(9271.00) Inc(89.8) Azm(90.6) TVD(6839.10)
VS(2033.60) N/-S(212.16) E/-W(2029.11)



#97 MD(9366.00) Inc(89.3) Azm(90.3) TVD(6839.88)
VS(2128.55) N/-S(211.41) E/-W(2124.10)

#98 MD(9462.00) Inc(89.2) Azm(90.5) TVD(6841.11)
VS(2224.50) N/-S(210.75) E/-W(2220.09)

#99 MD(9558.00) Inc(89.0) Azm(90.1) TVD(6842.60)
VS(2320.44) N/-S(210.27) E/-W(2316.08)

#100 MD(9654.00) Inc(88.8) Azm(90.2) TVD(6844.49)
VS(2416.39) N/-S(210.04) E/-W(2412.06)

#101 MD(9749.00) Inc(90.5) Azm(90.7) TVD(6845.14)
VS(2511.34) N/-S(209.29) E/-W(2507.05)

#102 MD(9845.00) Inc(90.3) Azm(90.4) TVD(6844.53)
VS(2607.28) N/-S(208.32) E/-W(2603.04)

#103 MD(9940.00) Inc(91.2) Azm(91.1) TVD(6843.37)
VS(2702.20) N/-S(207.01) E/-W(2698.03)

#104 MD(10036.00) Inc(90.8) Azm(91.0) TVD(6841.69)
VS(2798.10) N/-S(205.23) E/-W(2793.99)

#105 MD(10131.00) Inc(90.7) Azm(91.2) TVD(6840.41)
VS(2893.01) N/-S(203.45) E/-W(2888.97)

#106 MD(10227.00) Inc(90.7) Azm(90.9) TVD(6839.22)
VS(2988.91) N/-S(201.68) E/-W(2984.95)

#107 MD(10323.00) Inc(90.3) Azm(91.1) TVD(6838.37)
VS(3084.83) N/-S(199.97) E/-W(3080.93)

#108 MD(10418.00) Inc(91.4) Azm(90.9) TVD(6836.98)
VS(3179.73) N/-S(198.27) E/-W(3175.90)

#109 MD(10515.00) Inc(91.6) Azm(89.6) TVD(6834.50)
VS(3276.66) N/-S(197.80) E/-W(3272.86)

#110 MD(10610.00) Inc(91.0) Azm(90.4) TVD(6832.39)
VS(3371.61) N/-S(197.83) E/-W(3367.84)

#111 MD(10706.00) Inc(90.8) Azm(90.4) TVD(6830.92)
VS(3467.55) N/-S(197.20) E/-W(3463.83)

#112 MD(10802.00) Inc(90.3) Azm(90.0) TVD(6829.99)
VS(3563.51) N/-S(196.86) E/-W(3559.82)

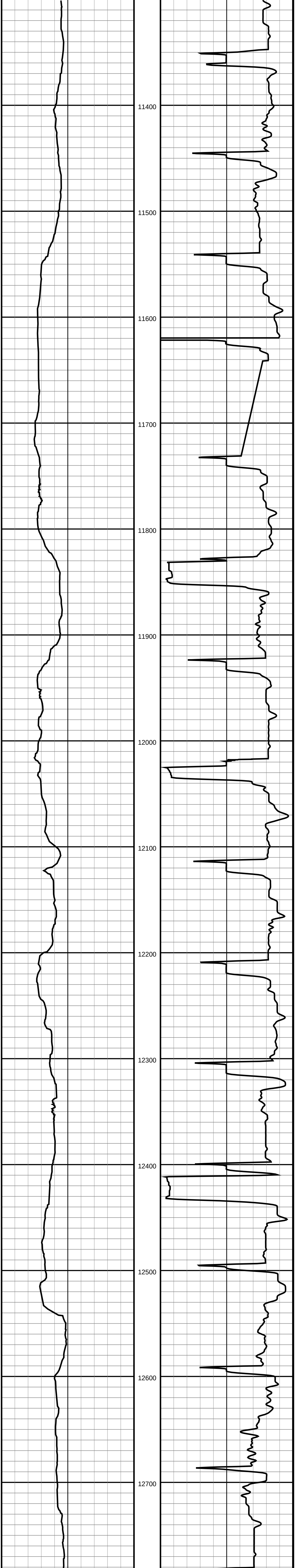
#113 MD(10897.00) Inc(90.3) Azm(90.0) TVD(6829.42)
VS(3658.48) N/-S(196.83) E/-W(3654.82)

#114 MD(10993.00) Inc(92.0) Azm(90.1) TVD(6827.47)
VS(3754.43) N/-S(196.72) E/-W(3750.80)

#115 MD(11088.00) Inc(91.7) Azm(90.0) TVD(6824.39)
VS(3849.35) N/-S(196.59) E/-W(3845.75)

#116 MD(11184.00) Inc(91.4) Azm(89.6) TVD(6821.77)
VS(3945.29) N/-S(196.91) E/-W(3941.71)

#117 MD(11279.00) Inc(91.5) Azm(89.1) TVD(6819.39)
VS(4040.25) N/-S(198.03) E/-W(4036.67)



#118 MD(11375.00) Inc(91.4) Azm(89.0) TVD(6816.92)
VS(4136.22) N/-S(199.64) E/-W(4132.63)

#119 MD(11470.00) Inc(91.3) Azm(89.1) TVD(6814.65)
VS(4231.19) N/-S(201.18) E/-W(4227.59)

#120 MD(11566.00) Inc(91.2) Azm(88.7) TVD(6812.54)
VS(4327.16) N/-S(202.96) E/-W(4323.55)

#121 MD(11661.00) Inc(91.5) Azm(88.6) TVD(6810.30)
VS(4422.14) N/-S(205.13) E/-W(4418.50)

#122 MD(11756.00) Inc(92.0) Azm(88.4) TVD(6807.44)
VS(4517.09) N/-S(207.56) E/-W(4513.42)

#123 MD(11852.00) Inc(90.2) Azm(89.6) TVD(6805.59)
VS(4613.07) N/-S(209.17) E/-W(4609.38)

#124 MD(11946.00) Inc(90.2) Azm(89.5) TVD(6805.19)
VS(4707.05) N/-S(209.86) E/-W(4703.38)

#125 MD(12041.00) Inc(89.1) Azm(89.7) TVD(6805.75)
VS(4802.04) N/-S(210.54) E/-W(4798.38)

#126 MD(12137.00) Inc(89.0) Azm(89.4) TVD(6807.34)
VS(4898.01) N/-S(211.31) E/-W(4894.36)

#127 MD(12233.00) Inc(88.7) Azm(89.3) TVD(6809.22)
VS(4993.99) N/-S(212.42) E/-W(4990.33)

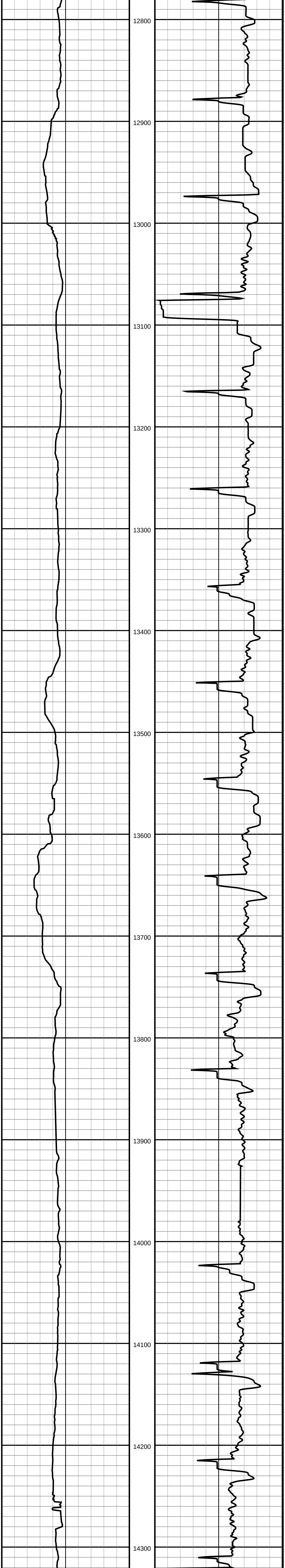
#128 MD(12329.00) Inc(88.8) Azm(88.8) TVD(6811.32)
VS(5089.96) N/-S(214.01) E/-W(5086.30)

#129 MD(12424.00) Inc(90.0) Azm(91.0) TVD(6812.31)
VS(5184.93) N/-S(214.20) E/-W(5181.29)

#130 MD(12520.00) Inc(90.1) Azm(90.7) TVD(6812.22)
VS(5280.85) N/-S(212.79) E/-W(5277.27)

#131 MD(12615.00) Inc(89.8) Azm(90.9) TVD(6812.35)
VS(5375.78) N/-S(211.43) E/-W(5372.26)

#132 MD(12711.00) Inc(90.0) Azm(91.2) TVD(6812.59)
VS(5471.70) N/-S(209.65) E/-W(5468.25)



#133 MD(12806.00) Inc(89.7) Azm(91.1) TVD(6812.91)
VS(5566.60) N/-S(207.71) E/-W(5563.23)

#134 MD(12902.00) Inc(89.6) Azm(91.1) TVD(6813.56)
VS(5662.51) N/-S(205.87) E/-W(5659.21)

#135 MD(12998.00) Inc(89.3) Azm(90.7) TVD(6814.48)
VS(5758.43) N/-S(204.44) E/-W(5755.19)

#136 MD(13094.00) Inc(91.3) Azm(90.6) TVD(6813.97)
VS(5854.37) N/-S(203.36) E/-W(5851.18)

#137 MD(13189.00) Inc(91.3) Azm(90.7) TVD(6811.81)
VS(5949.29) N/-S(202.29) E/-W(5946.15)

#138 MD(13285.00) Inc(91.3) Azm(90.4) TVD(6809.63)
VS(6045.21) N/-S(201.37) E/-W(6042.12)

#139 MD(13380.00) Inc(91.2) Azm(90.2) TVD(6807.60)
VS(6140.15) N/-S(200.87) E/-W(6137.10)

#140 MD(13476.00) Inc(91.2) Azm(89.9) TVD(6805.58)
VS(6236.10) N/-S(200.84) E/-W(6233.08)

#141 MD(13571.00) Inc(90.9) Azm(89.4) TVD(6803.82)
VS(6331.06) N/-S(201.44) E/-W(6328.06)

#142 MD(13666.00) Inc(90.9) Azm(89.2) TVD(6802.34)
VS(6426.05) N/-S(202.57) E/-W(6423.04)

#143 MD(13761.00) Inc(91.0) Azm(88.8) TVD(6800.77)
VS(6521.03) N/-S(204.19) E/-W(6518.01)

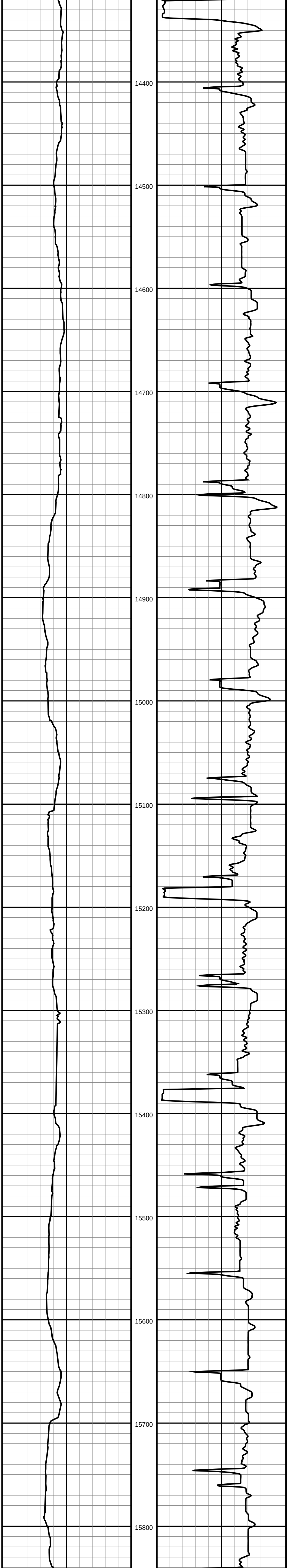
#144 MD(13856.00) Inc(91.2) Azm(89.0) TVD(6798.96)
VS(6616.01) N/-S(205.98) E/-W(6612.98)

#145 MD(13952.00) Inc(91.1) Azm(89.0) TVD(6797.05)
VS(6711.99) N/-S(207.63) E/-W(6708.94)

#146 MD(14048.00) Inc(91.1) Azm(88.6) TVD(6795.16)
VS(6807.97) N/-S(209.64) E/-W(6804.90)

#147 MD(14144.00) Inc(91.3) Azm(88.3) TVD(6793.14)
VS(6903.95) N/-S(212.27) E/-W(6900.85)

#148 MD(14240.00) Inc(91.2) Azm(88.6) TVD(6791.03)
VS(6999.93) N/-S(214.86) E/-W(6996.79)



#149 MD(14335.00) Inc(90.5) Azm(91.1) TVD(6789.55)
VS(7094.88) N/-S(215.09) E/-W(7091.77)

#150 MD(14431.00) Inc(90.0) Azm(91.2) TVD(6789.11)
VS(7190.79) N/-S(213.18) E/-W(7187.75)

#151 MD(14525.00) Inc(89.9) Azm(91.2) TVD(6789.20)
VS(7284.70) N/-S(211.19) E/-W(7281.73)

#152 MD(14621.00) Inc(89.8) Azm(90.7) TVD(6789.42)
VS(7380.61) N/-S(209.54) E/-W(7377.71)

#153 MD(14717.00) Inc(89.6) Azm(90.6) TVD(6789.93)
VS(7476.55) N/-S(208.42) E/-W(7473.70)

#154 MD(14813.00) Inc(89.4) Azm(90.4) TVD(6790.76)
VS(7572.50) N/-S(207.57) E/-W(7569.70)

#155 MD(14908.00) Inc(89.4) Azm(90.2) TVD(6791.74)
VS(7667.45) N/-S(207.10) E/-W(7664.69)

#156 MD(15004.00) Inc(89.3) Azm(90.0) TVD(6792.84)
VS(7763.41) N/-S(206.94) E/-W(7760.68)

#157 MD(15100.00) Inc(89.4) Azm(90.0) TVD(6793.90)
VS(7859.38) N/-S(206.93) E/-W(7856.68)

#158 MD(15196.00) Inc(90.5) Azm(90.3) TVD(6793.99)
VS(7955.35) N/-S(206.69) E/-W(7952.68)

#159 MD(15291.00) Inc(90.0) Azm(90.3) TVD(6793.59)
VS(8050.30) N/-S(206.13) E/-W(8047.67)

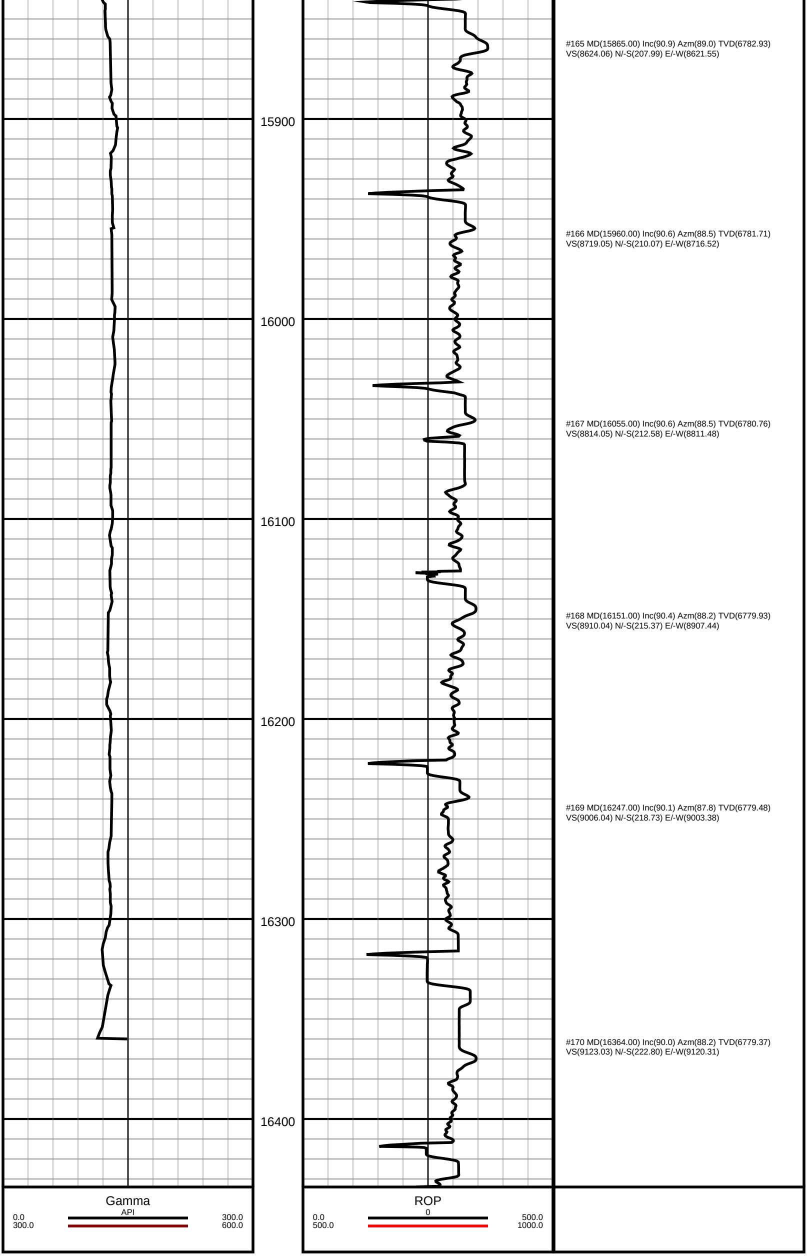
#160 MD(15387.00) Inc(91.1) Azm(90.2) TVD(6792.65)
VS(8146.26) N/-S(205.67) E/-W(8143.67)

#161 MD(15483.00) Inc(91.2) Azm(90.0) TVD(6790.68)
VS(8242.20) N/-S(205.48) E/-W(8239.65)

#162 MD(15578.00) Inc(91.4) Azm(89.9) TVD(6788.45)
VS(8337.15) N/-S(205.58) E/-W(8334.62)

#163 MD(15674.00) Inc(91.1) Azm(89.8) TVD(6786.36)
VS(8433.11) N/-S(205.88) E/-W(8430.60)

#164 MD(15769.00) Inc(91.1) Azm(89.3) TVD(6784.59)
VS(8528.08) N/-S(206.62) E/-W(8525.58)



#165 MD(15865.00) Inc(90.9) Azm(89.0) TVD(6782.93)
VS(8624.06) N/-S(207.99) E/-W(8621.55)

#166 MD(15960.00) Inc(90.6) Azm(88.5) TVD(6781.71)
VS(8719.05) N/-S(210.07) E/-W(8716.52)

#167 MD(16055.00) Inc(90.6) Azm(88.5) TVD(6780.76)
VS(8814.05) N/-S(212.58) E/-W(8811.48)

#168 MD(16151.00) Inc(90.4) Azm(88.2) TVD(6779.93)
VS(8910.04) N/-S(215.37) E/-W(8907.44)

#169 MD(16247.00) Inc(90.1) Azm(87.8) TVD(6779.48)
VS(9006.04) N/-S(218.73) E/-W(9003.38)

#170 MD(16364.00) Inc(90.0) Azm(88.2) TVD(6779.37)
VS(9123.03) N/-S(222.80) E/-W(9120.31)