Precision
Directional Services

Whisper Rock 3C-25HZ

MD
5":100'

Company: Anadarko Petroleum Corporation
Well Name: Whisper Rock 3C-25HZ
API: 05123413140000
County/Parish: Weld
State: Colorado
Country: USA
Job number: GC-150046
Field: Wattenberg
Rig Id: PD 460
Survey Company: Precision Directional Services, Inc.

Log measurements:
Depth measured from: 1863 ft
Maximum temperature: 219

Depth	**Date**
Start: 1863 ft	01/09/16
End: 13463 ft	01/12/16

Casing	**Depth**	**Size**
Surface:	1863 ft	9 5/8"
Intermediate:	13463 ft	5 1/2"

Mud Type: OBM
Density: 9.5
Viscosity: 62
Rm:
Rmf:
Rmc:

Elevations
KB: 5061 ft
GL: 5041 ft
DF: 20 ft

Run	**Bit Size**	**Offsets**		**Depths**		**Dates**	
		Gamma	**Survey**	**Start**	**End**	**Start**	**End**
1	8.5"	49.00 ft	65.00 ft	1863 ft	13463 ft	01/09/16	01/12/16
2							
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.

#63 MD(6038.00) Inc(1.1) Azm(150.3) TVD(5870.10)
VS(-1177.70) NS(399.43) EW(-1177.91)

#64 MD(6225.00) Inc(0.7) Azm(84.4) TVD(6057.09)
VS(-1175.71) NS(398.04) EW(-1175.92)

#65 MD(6411.00) Inc(0.3) Azm(290.4) TVD(6243.08)
VS(-1174.97) NS(398.30) EW(-1175.18)

#66 MD(6599.00) Inc(0.6) Azm(316.8) TVD(6431.08)
VS(-1176.07) NS(399.19) EW(-1176.28)

#67 MD(6787.00) Inc(0.4) Azm(310.4) TVD(6619.07)
VS(-1177.31) NS(400.39) EW(-1177.52)

#68 MD(6880.00) Inc(0.6) Azm(271.8) TVD(6712.06)
VS(-1178.09) NS(400.64) EW(-1178.30)

#69 MD(6974.00) Inc(7.6) Azm(81.0) TVD(6805.81)
VS(-1172.48) NS(401.62) EW(-1172.69)

#70 MD(7068.00) Inc(16.0) Azm(74.7) TVD(6897.75)
VS(-1153.84) NS(406.01) EW(-1154.05)

#71 MD(7160.00) Inc(21.6) Azm(76.1) TVD(6984.80)
VS(-1125.12) NS(413.44) EW(-1125.34)

#72 MD(7254.00) Inc(30.0) Azm(88.8) TVD(7069.41)
VS(-1084.71) NS(418.11) EW(-1084.93)

#73 MD(7347.00) Inc(43.0) Azm(92.1) TVD(7144.02)
VS(-1029.54) NS(417.45) EW(-1029.76)

#74 MD(7439.00) Inc(52.2) Azm(91.6) TVD(7205.98)
VS(-961.70) NS(415.30) EW(-961.91)

#75 MD(7532.00) Inc(54.3) Azm(90.7) TVD(7261.62)
VS(-887.20) NS(413.83) EW(-887.42)

#76 MD(7624.00) Inc(64.4) Azm(93.9) TVD(7308.52)
VS(-808.27) NS(410.58) EW(-808.49)

#77 MD(7717.00) Inc(68.1) Azm(94.4) TVD(7346.02)
VS(-723.41) NS(404.45) EW(-723.62)

#78 MD(7809.00) Inc(76.9) Azm(92.1) TVD(7373.66)
VS(-635.90) NS(399.53) EW(-636.11)

#79 MD(7902.00) Inc(84.4) Azm(92.8) TVD(7388.71)
VS(-544.28) NS(395.60) EW(-544.49)

#80 MD(7994.00) Inc(84.6) Azm(92.3) TVD(7397.52)
VS(-452.80) NS(391.52) EW(-453.00)

#81 MD(8087.00) Inc(86.7) Azm(91.4) TVD(7404.58)
VS(-360.12) NS(388.52) EW(-360.33)

#82 MD(8180.00) Inc(88.7) Azm(90.5) TVD(7408.30)
VS(-267.22) NS(386.97) EW(-267.42)

#83 MD(8274.00) Inc(90.8) Azm(90.0) TVD(7408.74)
VS(-173.23) NS(386.55) EW(-173.43)

#84 MD(8367.00) Inc(89.2) Azm(87.0) TVD(7408.81)
VS(-80.27) NS(388.99) EW(-80.47)

#85 MD(8460.00) Inc(90.4) Azm(88.6) TVD(7409.17)
VS(12.66) NS(392.57) EW(12.45)

#86 MD(8555.00) Inc(90.7) Azm(88.8) TVD(7408.29)
VS(107.63) NS(394.77) EW(107.42)

#87 MD(8649.00) Inc(91.2) Azm(89.5) TVD(7406.77)
VS(201.61) NS(396.22) EW(201.40)

#88 MD(8745.00) Inc(91.2) Azm(89.3) TVD(7404.78)
VS(297.58) NS(397.26) EW(297.37)

#89 MD(8839.00) Inc(90.8) Azm(90.0) TVD(7403.18)
VS(391.56) NS(397.85) EW(391.36)

#90 MD(8933.00) Inc(90.5) Azm(89.8) TVD(7402.18)
VS(485.56) NS(398.00) EW(485.35)

#91 MD(9027.00) Inc(90.4) Azm(89.5) TVD(7401.45)
VS(579.55) NS(398.58) EW(579.35)

#92 MD(9121.00) Inc(89.8) Azm(88.6) TVD(7401.31)
VS(673.54) NS(400.18) EW(673.33)

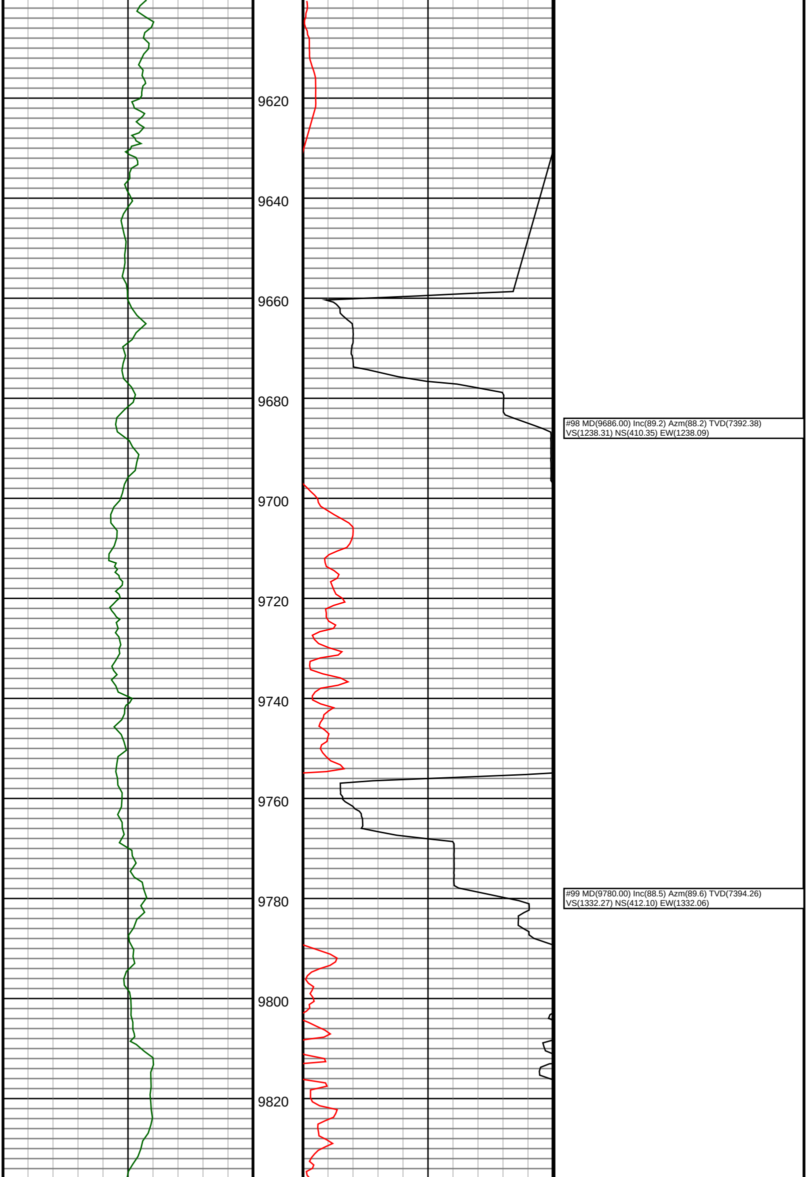
#93 MD(9216.00) Inc(89.9) Azm(88.9) TVD(7401.60)
VS(768.52) NS(402.22) EW(768.31)

#94 MD(9310.00) Inc(90.6) Azm(89.5) TVD(7401.24)
VS(862.51) NS(403.53) EW(862.30)

#95 MD(9404.00) Inc(91.7) Azm(89.1) TVD(7399.36)
VS(956.48) NS(404.69) EW(956.27)

#96 MD(9498.00) Inc(91.8) Azm(89.5) TVD(7396.49)
VS(1050.43) NS(405.86) EW(1050.22)

#97 MD(9592.00) Inc(92.0) Azm(88.4) TVD(7393.39)
VS(1144.36) NS(407.59) EW(1144.15)



#98 MD(9686.00) Inc(89.2) Azm(88.2) TVD(7392.38)
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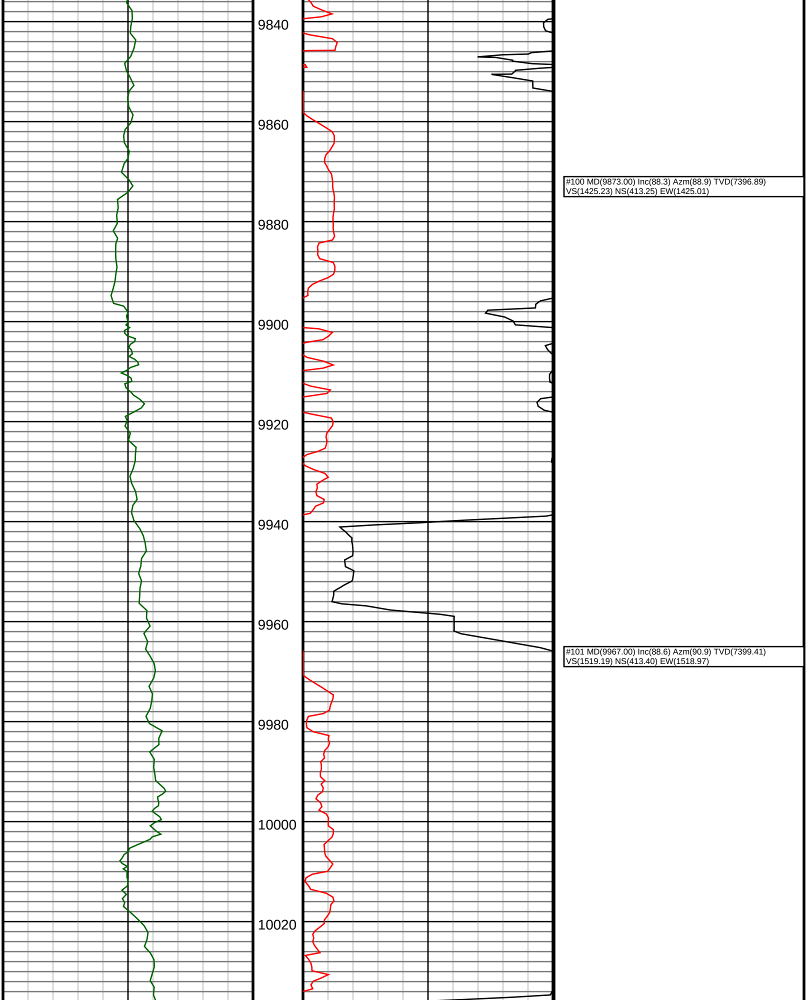
VS(1332.27) NS(412.10) EW(1332.06)



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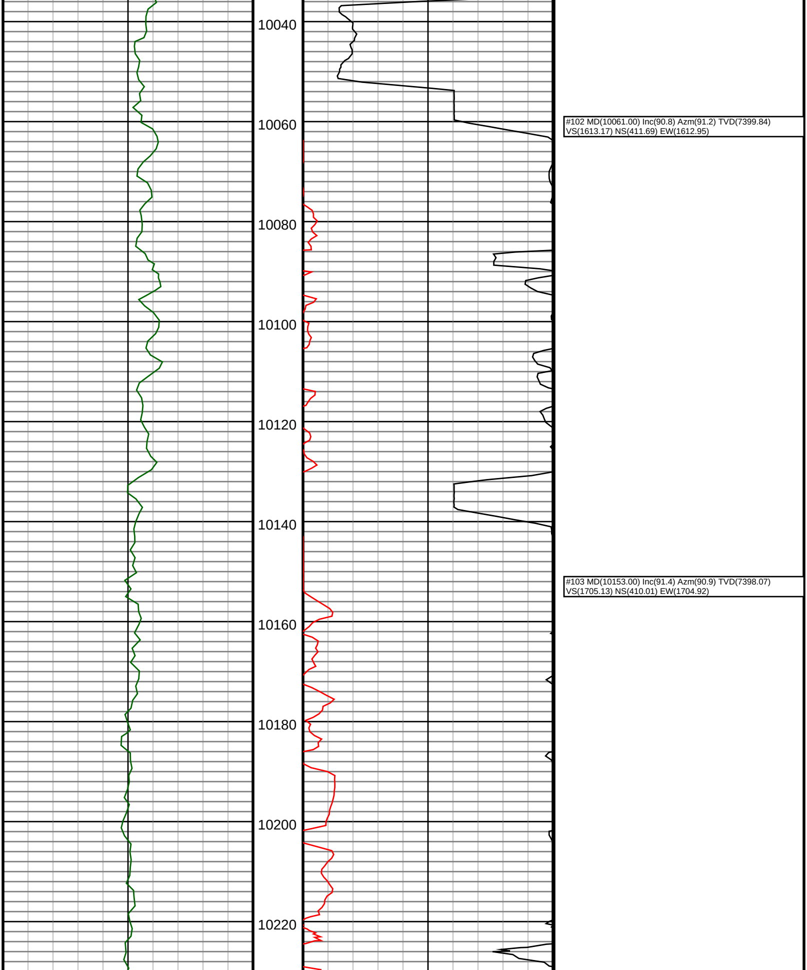
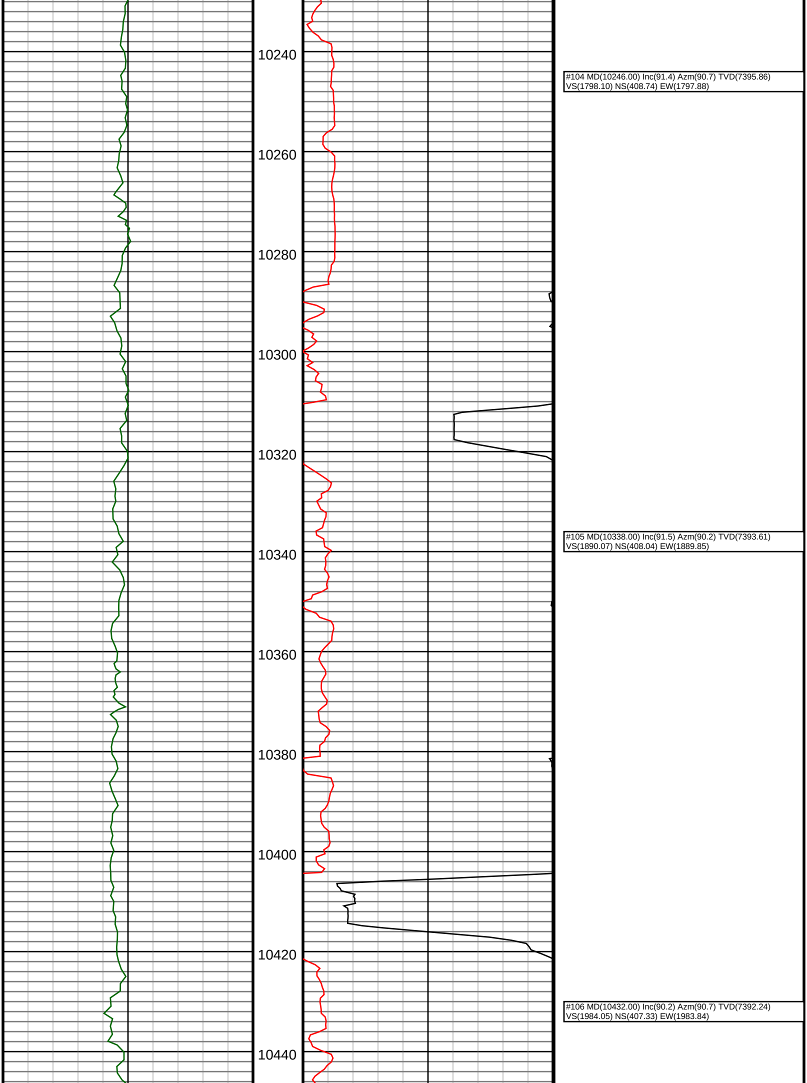
VS(1425.23) NS(413.25) EW(1425.01)

#101 MD(9967.00) Inc(88.6) Azm(90.9) TVD(7399.41)
VS(1519.19) NS(413.40) EW(1518.97)



#102 MD(10061.00) Inc(90.8) Azm(91.2) TVD(7399.84)
VS(1613.17) NS(411.69) EW(1612.95)

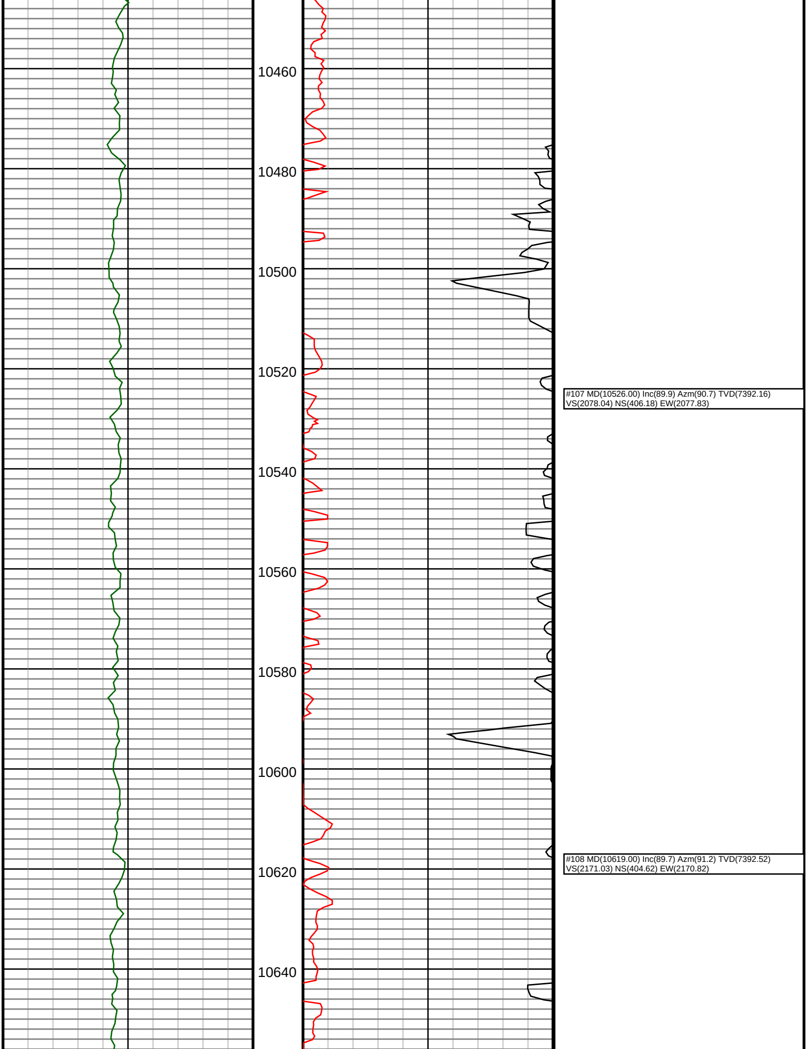
#103 MD(10153.00) Inc(91.4) Azm(90.9) TVD(7398.07)
VS(1705.13) NS(410.01) EW(1704.92)



#104 MD(10246.00) Inc(91.4) Azm(90.7) TVD(7395.86)
VS(1798.10) NS(408.74) EW(1797.88)

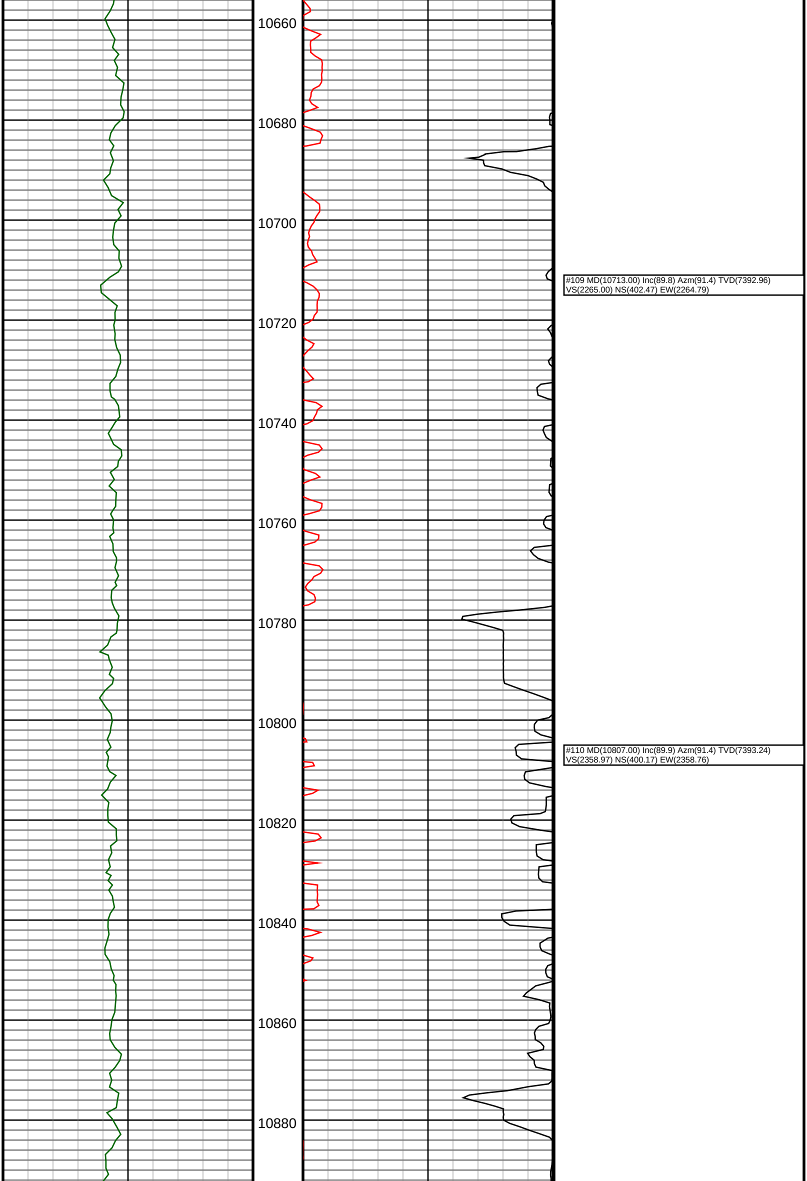
#105 MD(10338.00) Inc(91.5) Azm(90.2) TVD(7393.61)
VS(1890.07) NS(408.04) EW(1889.85)

#106 MD(10432.00) Inc(90.2) Azm(90.7) TVD(7392.24)
VS(1984.05) NS(407.33) EW(1983.84)



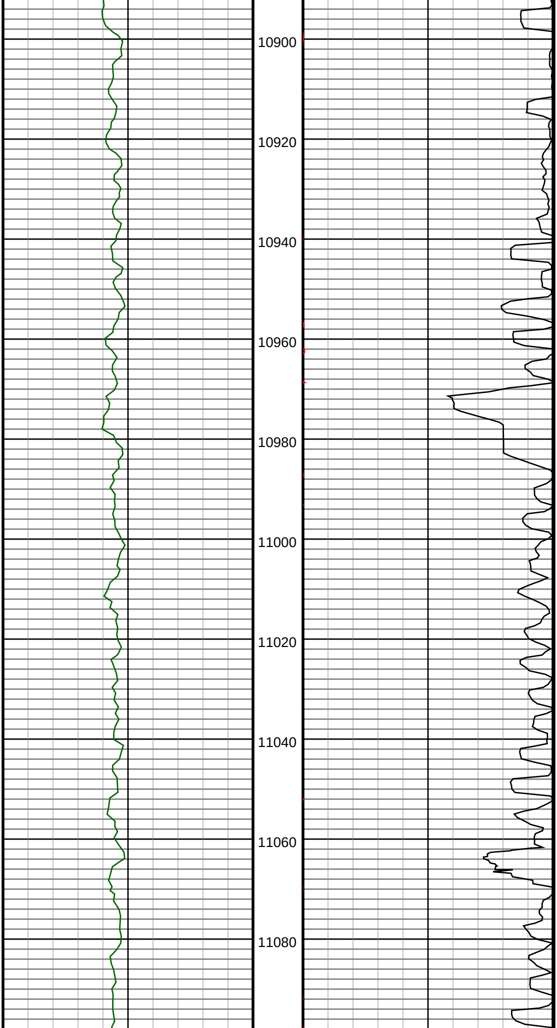
#107 MD(10526.00) Inc(89.9) Azm(90.7) TVD(7392.16)
VS(2078.04) NS(406.18) EW(2077.83)

#108 MD(10619.00) Inc(89.7) Azm(91.2) TVD(7392.52)
VS(2171.03) NS(404.62) EW(2170.82)



#109 MD(10713.00) Inc(89.8) Azm(91.4) TVD(7392.96)
VS(2265.00) NS(402.47) EW(2264.79)

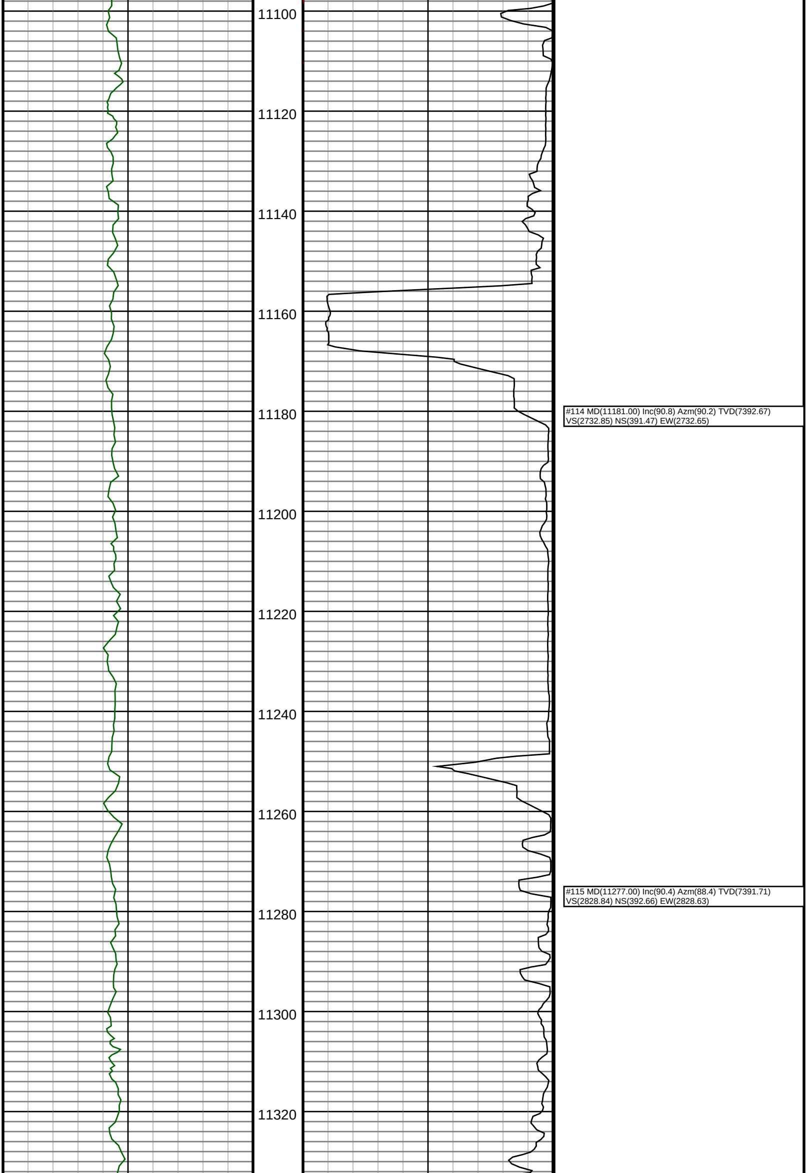
#110 MD(10807.00) Inc(89.9) Azm(91.4) TVD(7393.24)
VS(2358.97) NS(400.17) EW(2358.76)



#111 MD(10902.00) Inc(89.9) Azm(91.4) TVD(7393.46)
VS(2453.94) NS(397.85) EW(2453.73)

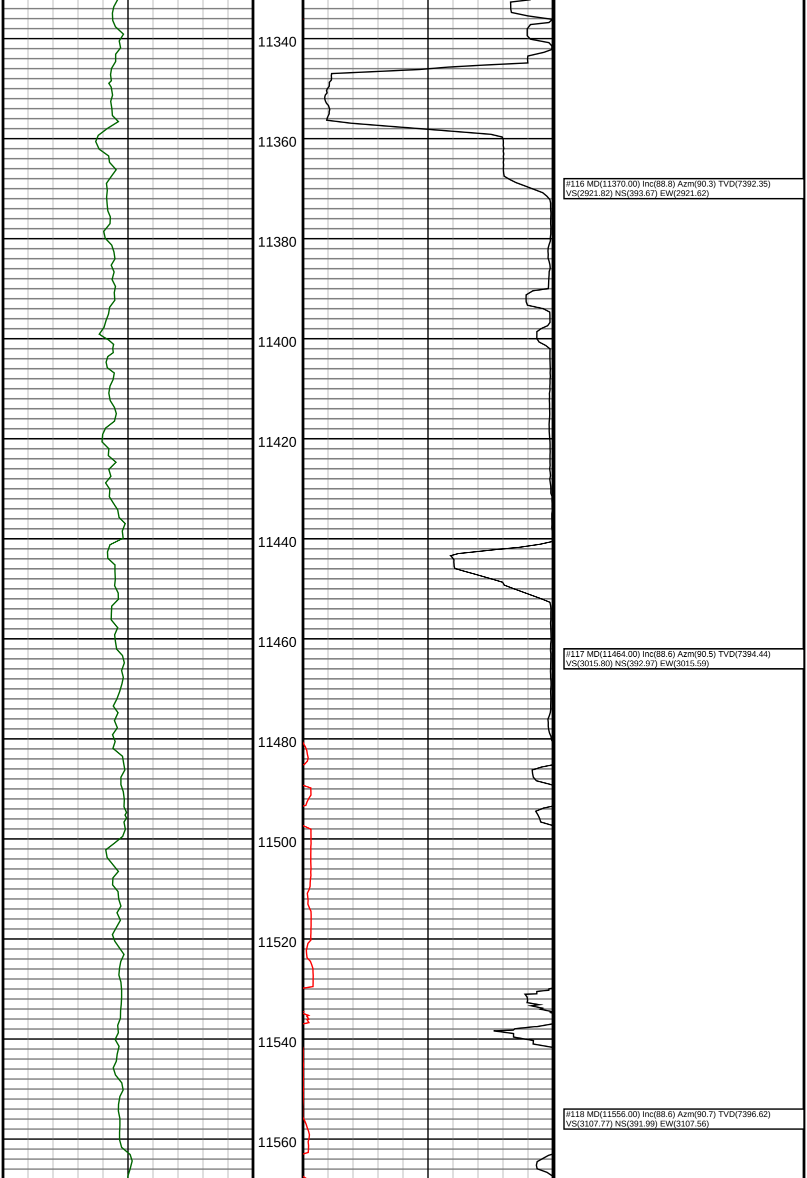
#112 MD(10995.00) Inc(90.0) Azm(91.6) TVD(7393.60)
VS(2546.91) NS(395.44) EW(2546.70)

#113 MD(11089.00) Inc(90.2) Azm(91.6) TVD(7393.45)
VS(2640.87) NS(392.87) EW(2640.67)



#114 MD(11181.00) Inc(90.8) Azm(90.2) TVD(7392.67)
VS(2732.85) NS(391.47) EW(2732.65)

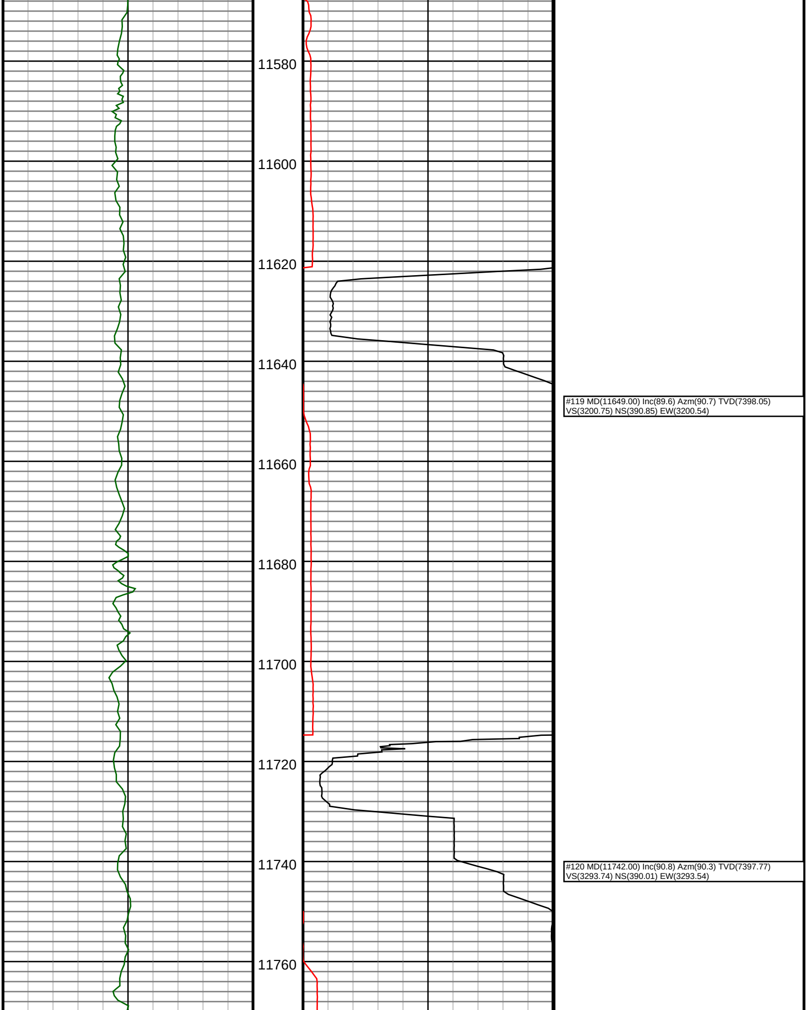
#115 MD(11277.00) Inc(90.4) Azm(88.4) TVD(7391.71)
VS(2828.84) NS(392.66) EW(2828.63)



#116 MD(11370.00) Inc(88.8) Azm(90.3) TVD(7392.35)
VS(2921.82) NS(393.67) EW(2921.62)

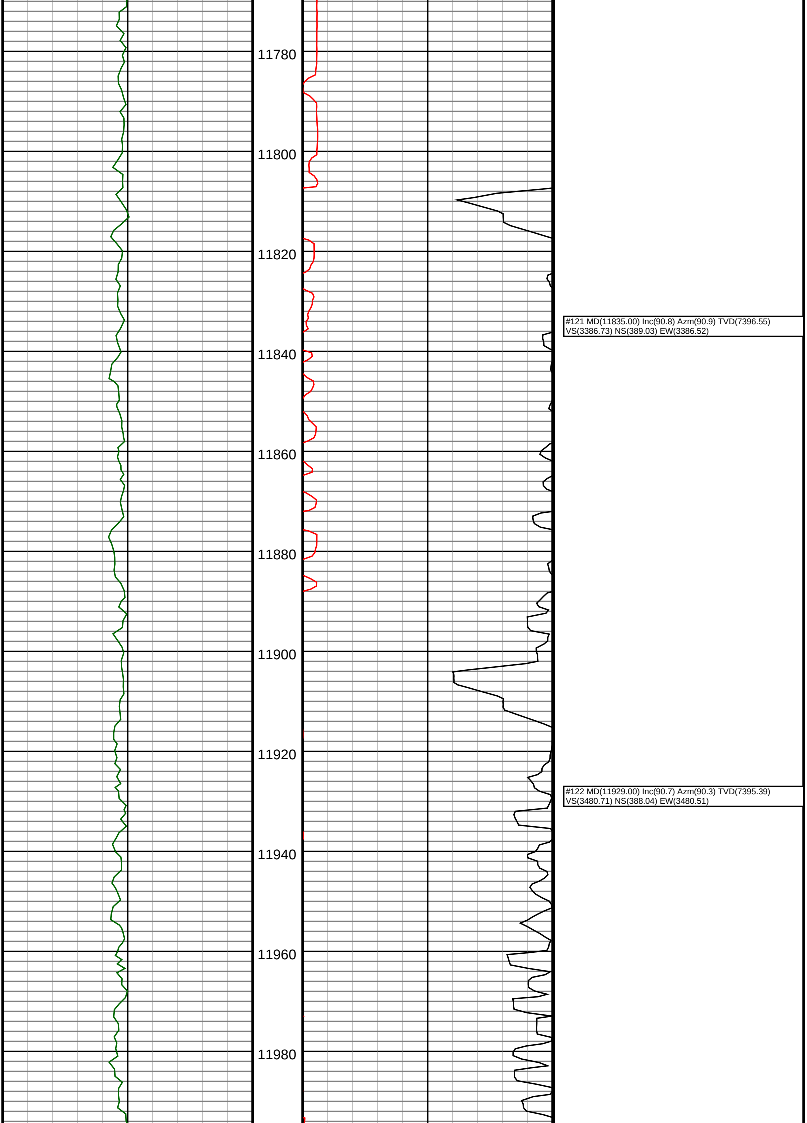
#117 MD(11464.00) Inc(88.6) Azm(90.5) TVD(7394.44)
VS(3015.80) NS(392.97) EW(3015.59)

#118 MD(11556.00) Inc(88.6) Azm(90.7) TVD(7396.62)
VS(3107.77) NS(391.99) EW(3107.56)



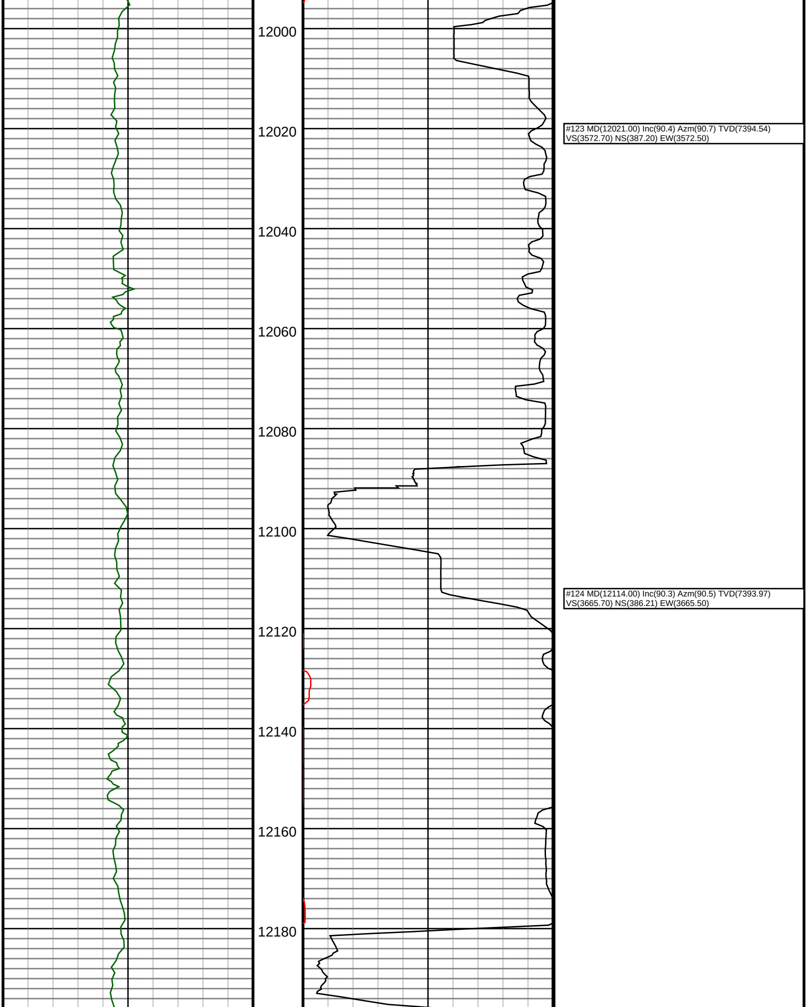
#119 MD(11649.00) Inc(89.6) Azm(90.7) TVD(7398.05)
VS(3200.75) NS(390.85) EW(3200.54)

#120 MD(11742.00) Inc(90.8) Azm(90.3) TVD(7397.77)
VS(3293.74) NS(390.01) EW(3293.54)



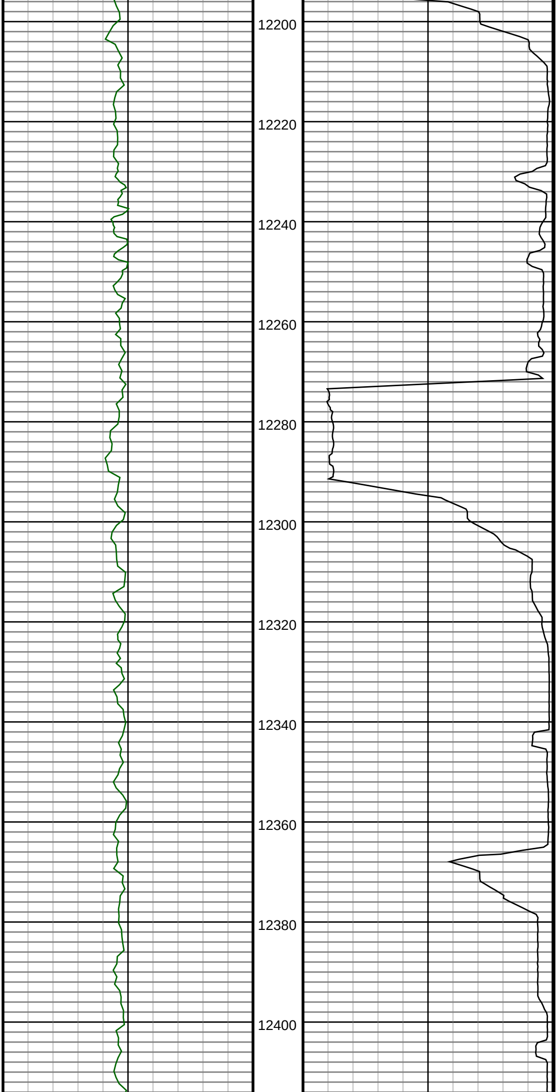
#121 MD(11835.00) Inc(90.8) Azm(90.9) TVD(7396.55)
VS(3386.73) NS(389.03) EW(3386.52)

#122 MD(11929.00) Inc(90.7) Azm(90.3) TVD(7395.39)
VS(3480.71) NS(388.04) EW(3480.51)



#123 MD(12021.00) Inc(90.4) Azm(90.7) TVD(7394.54)
VS(3572.70) NS(387.20) EW(3572.50)

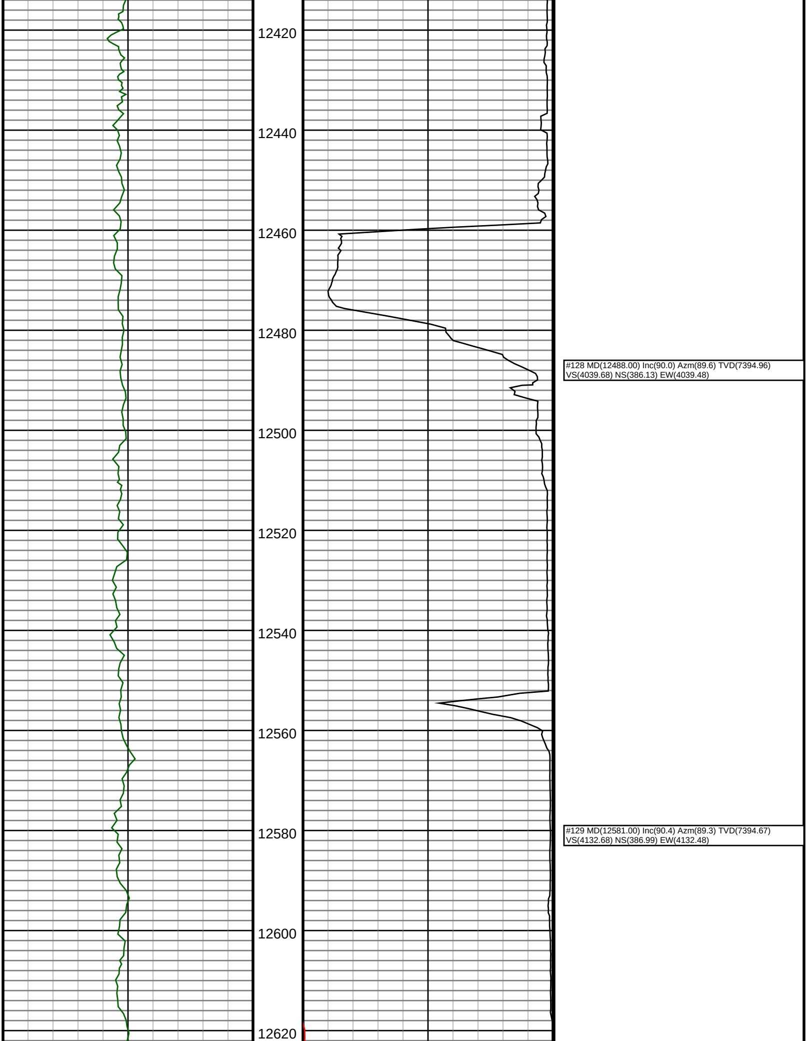
#124 MD(12114.00) Inc(90.3) Azm(90.5) TVD(7393.97)
VS(3665.70) NS(386.21) EW(3665.50)



#125 MD(12207.00) Inc(90.0) Azm(90.7) TVD(7393.75)
VS(3758.69) NS(385.22) EW(3758.49)

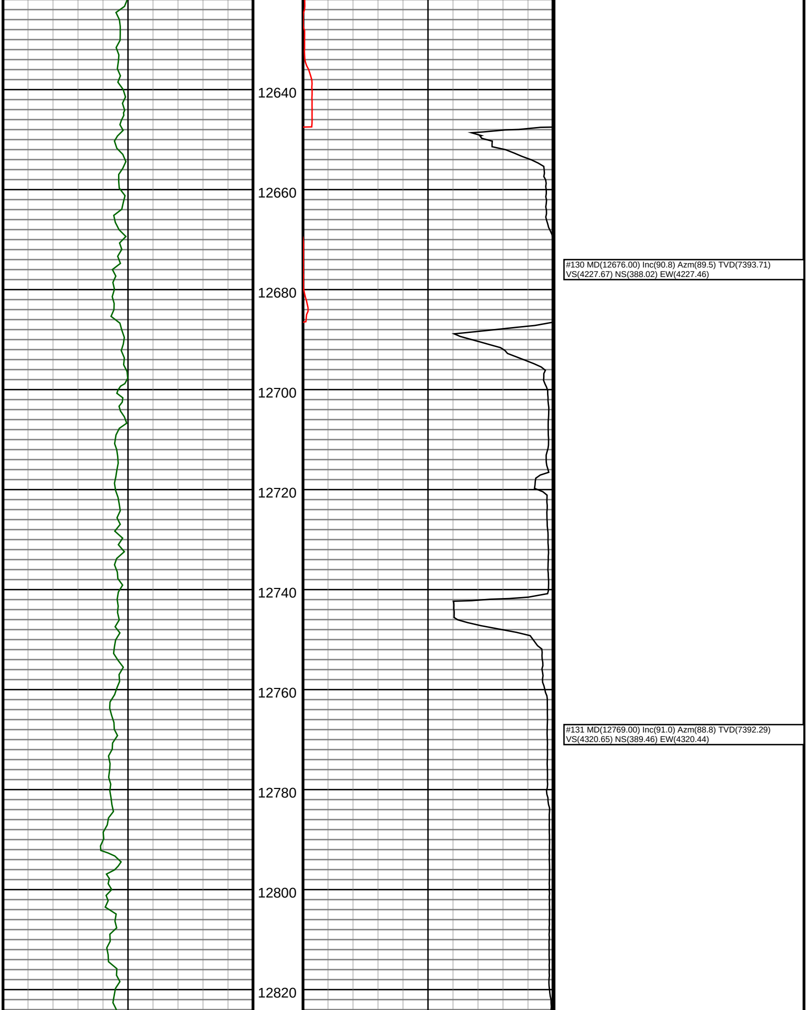
#126 MD(12300.00) Inc(89.9) Azm(89.6) TVD(7393.89)
VS(3851.69) NS(384.95) EW(3851.49)

#127 MD(12393.00) Inc(89.4) Azm(89.6) TVD(7394.45)
VS(3944.69) NS(385.53) EW(3944.48)



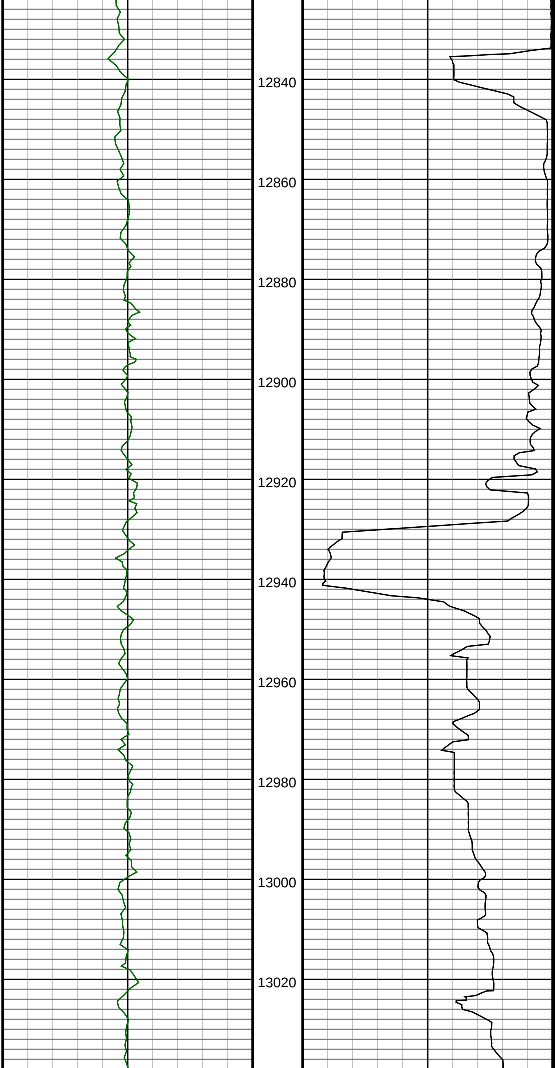
#128 MD(12488.00) Inc(90.0) Azm(89.6) TVD(7394.96)
VS(4039.68) NS(386.13) EW(4039.48)

#129 MD(12581.00) Inc(90.4) Azm(89.3) TVD(7394.67)
VS(4132.68) NS(386.99) EW(4132.48)



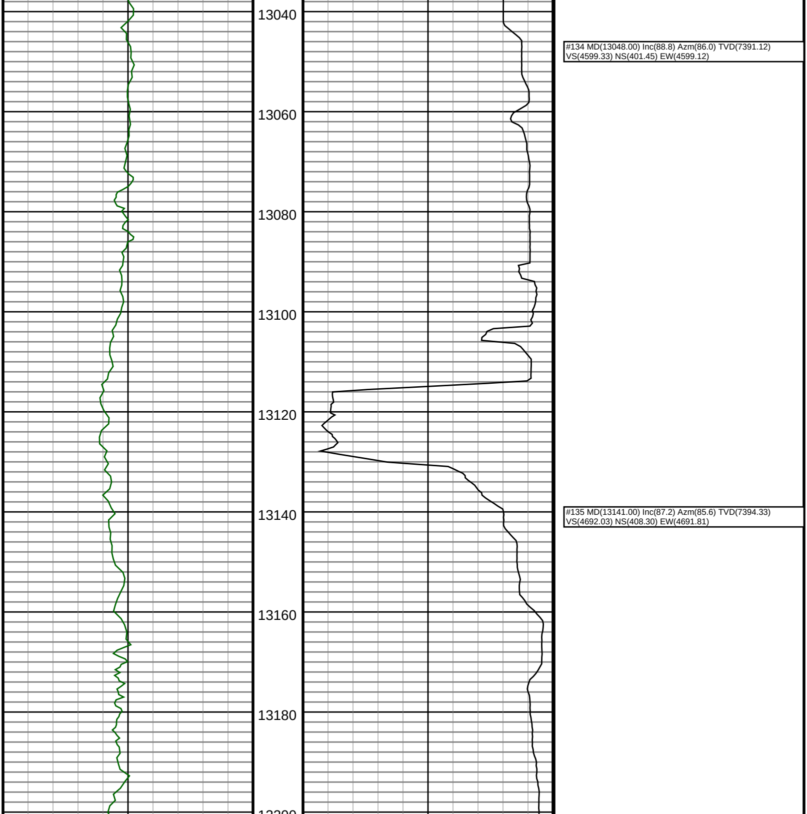
#130 MD(12676.00) Inc(90.8) Azm(89.5) TVD(7393.71)
VS(4227.67) NS(388.02) EW(4227.46)

#131 MD(12769.00) Inc(91.0) Azm(88.8) TVD(7392.29)
VS(4320.65) NS(389.46) EW(4320.44)



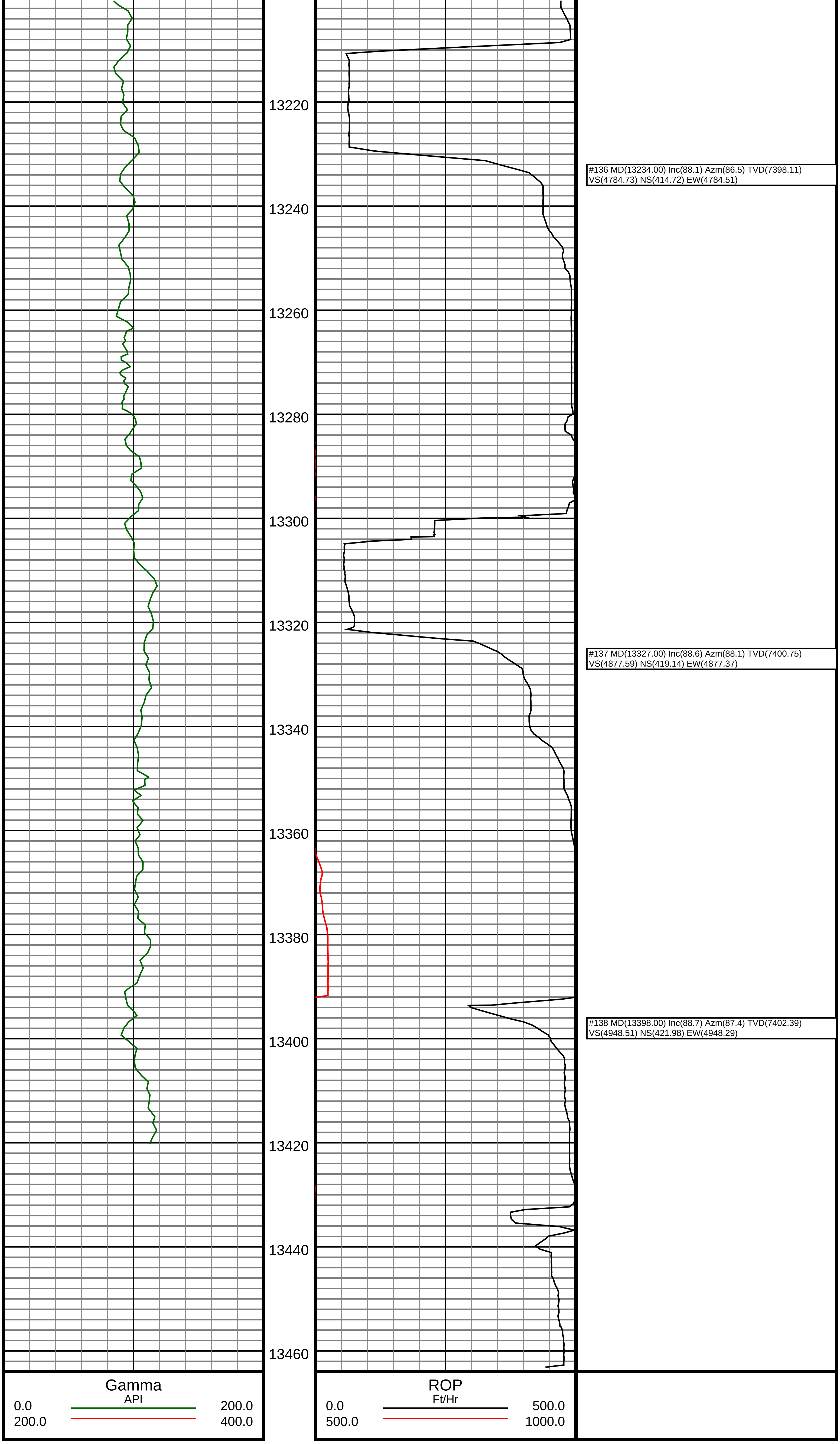
#132 MD(12863.00) Inc(91.0) Azm(88.2) TVD(7390.63)
VS(4414.60) NS(391.93) EW(4414.39)

#133 MD(12956.00) Inc(89.8) Azm(87.0) TVD(7389.99)
VS(4507.51) NS(395.80) EW(4507.31)



#134 MD(13048.00) Inc(88.8) Azm(86.0) TVD(7391.12)
VS(4599.33) NS(401.45) EW(4599.12)

#135 MD(13141.00) Inc(87.2) Azm(85.6) TVD(7394.33)
VS(4692.03) NS(408.30) EW(4691.81)



#136 MD(13234.00) Inc(88.1) Azm(86.5) TVD(7398.11)
VS(4784.73) NS(414.72) EW(4784.51)

#137 MD(13327.00) Inc(88.6) Azm(88.1) TVD(7400.75)
VS(4877.59) NS(419.14) EW(4877.37)

#138 MD(13398.00) Inc(88.7) Azm(87.4) TVD(7402.39)
VS(4948.51) NS(421.98) EW(4948.29)