



WELLS RANCH AA35-62-1BHNC 1":100' MD

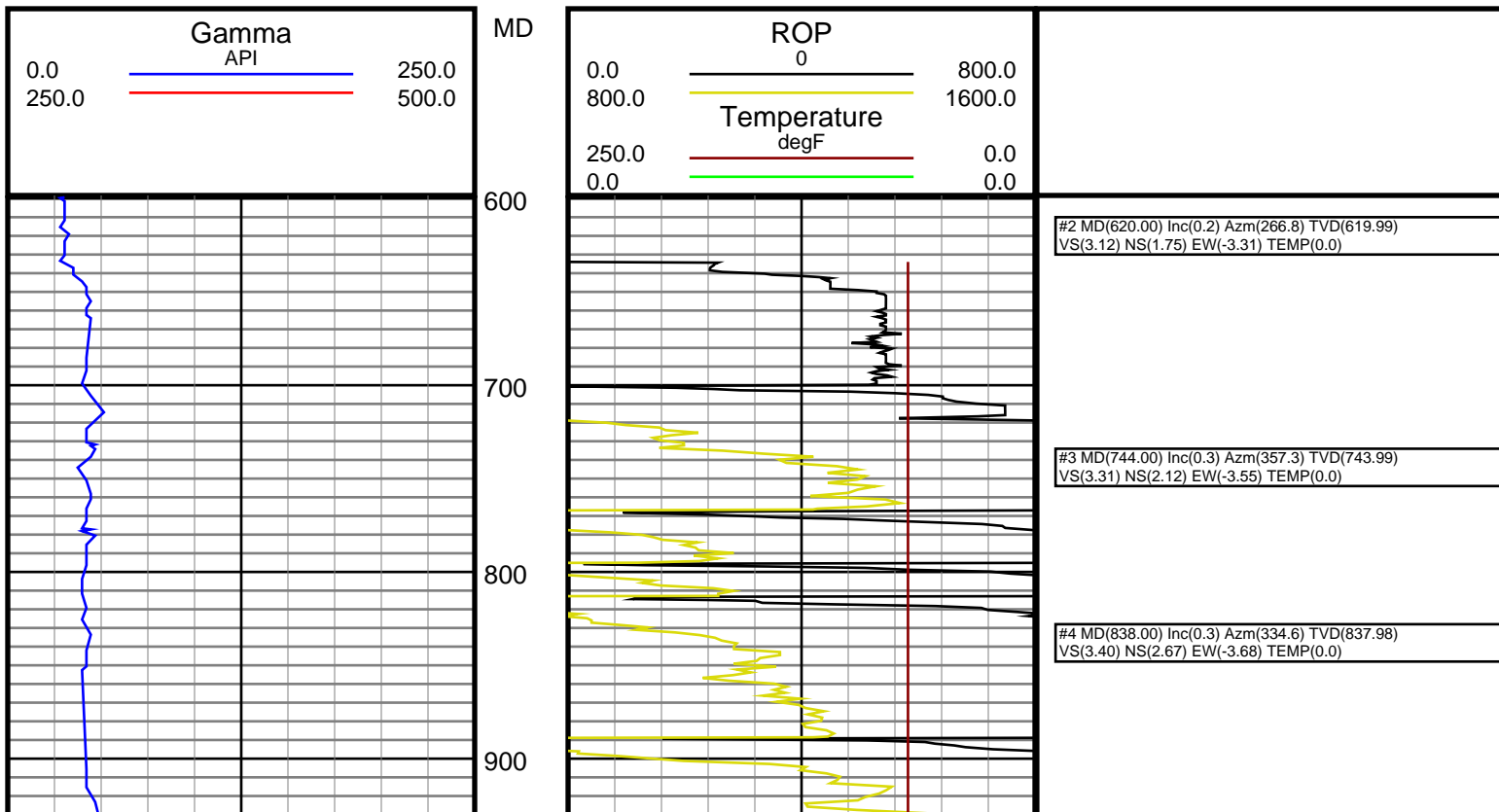
Company: NOBLE ENERGY
Well Name: WELLS RANCH AA35-62-1BHNC
API: 05-123-38668
Rig Id: H&P 277
State: CO
County/Parish: WELD COUNTY
Country:
Survey Company: DRILTECH
Job number: 2014-179-IDDT-CO
MARK LARUE MWD OPERATOR
RAYMOND HORTON MWD OPERATOR

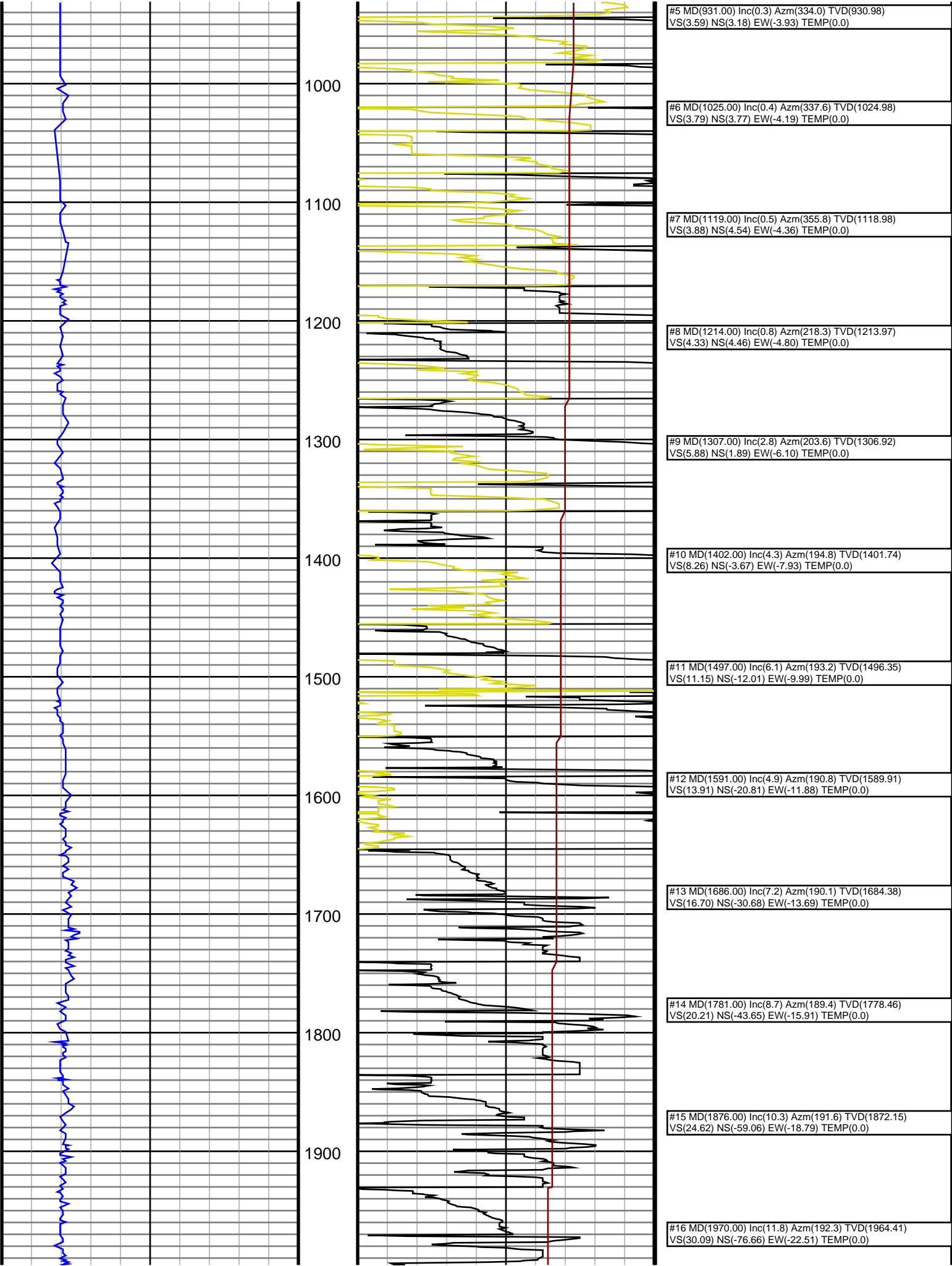
Log measurements:
Depth measured from: 598
Maximum temperature: 216.7
Depth Date
Start: 63.4 ft 4/25/14
End: 11192 ft 5/1/14

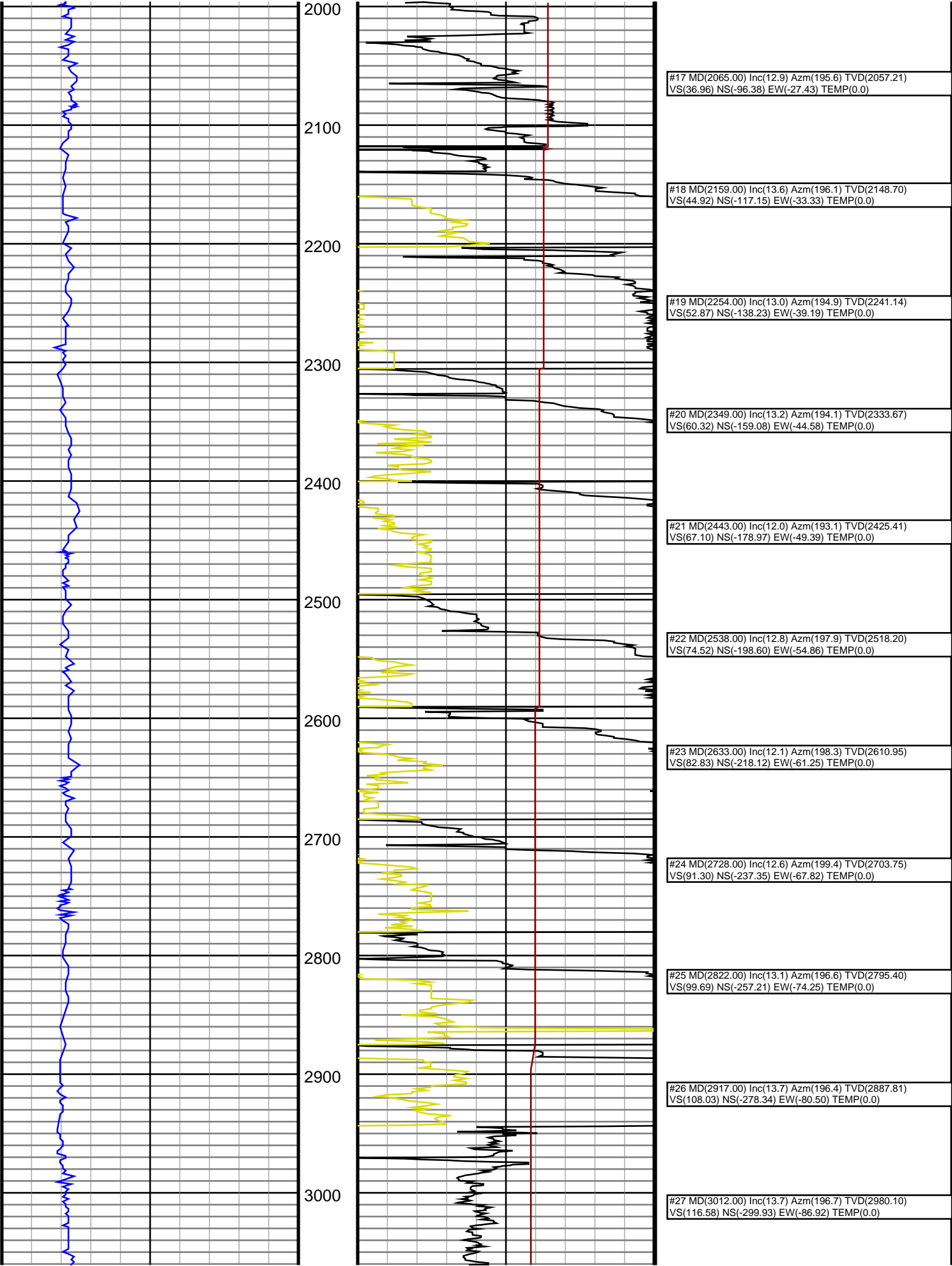
Casing Depth Size
Surface: 63.4 9 5/8
Intermediate: 6952 7
Mud Type: Water Base
Density: 9.1
Viscosity: 37
Rm: Rmf: Rmc:
Elevations
KB: 24
GL: 4741
DF:

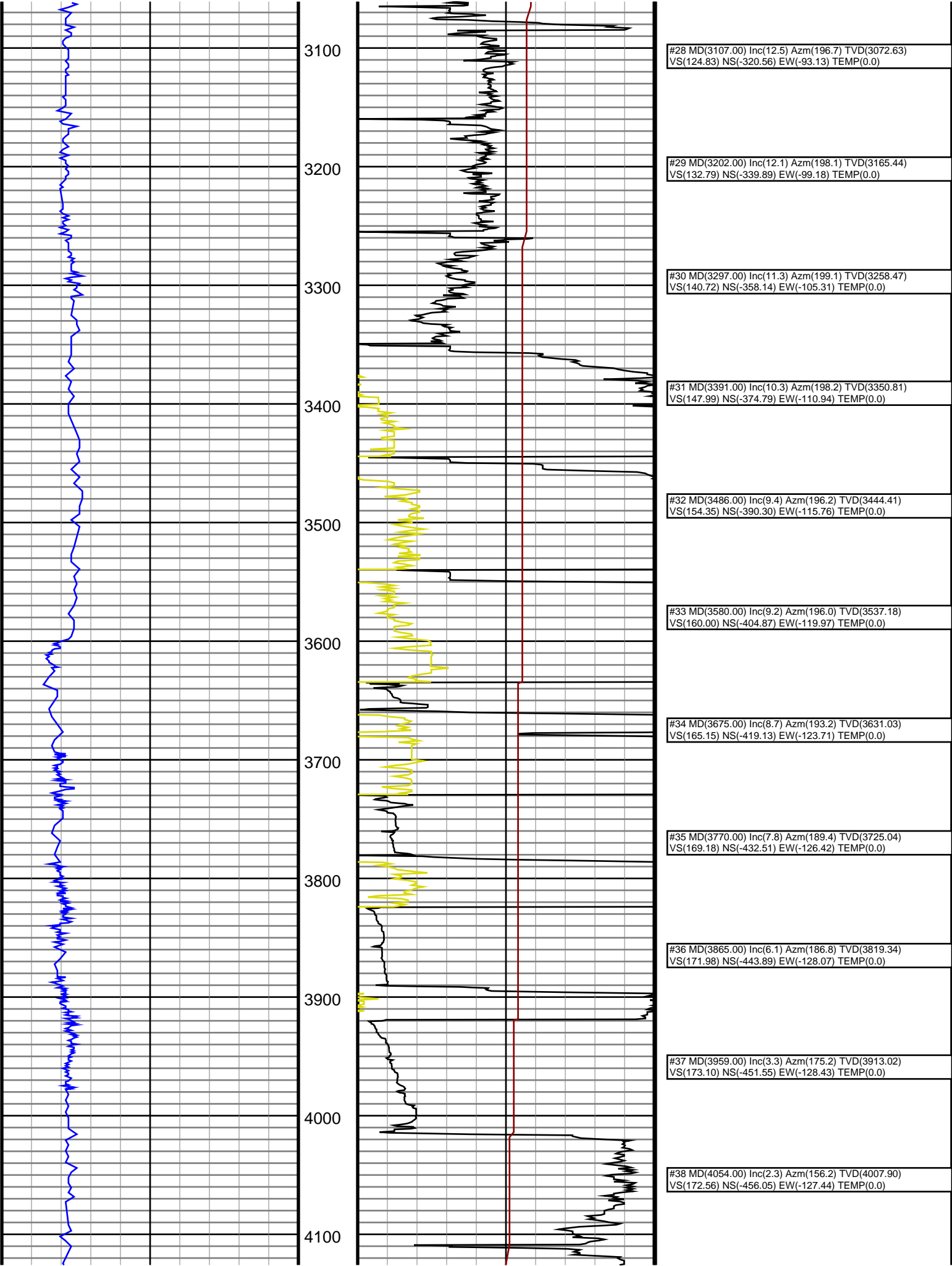
Run	Bit Size	Offsets	Gamma	Survey	Start	End	Start	End	Dates
1	8 3/4	36.00	50.00	63.4	5976	6739	4/25/14	4/27/14	
2	8 3/4	45.00	59.00	5976	6739	6962	4/27/14	4/28/14	
3	8 3/4	45.00	59.00	6739	6962	11192	4/28/14	4/28/14	
4	6 1/8	49.00	65.00	6962	11192		4/29/14	5/1/14	
5									
6									
7									
8									
9									
10									

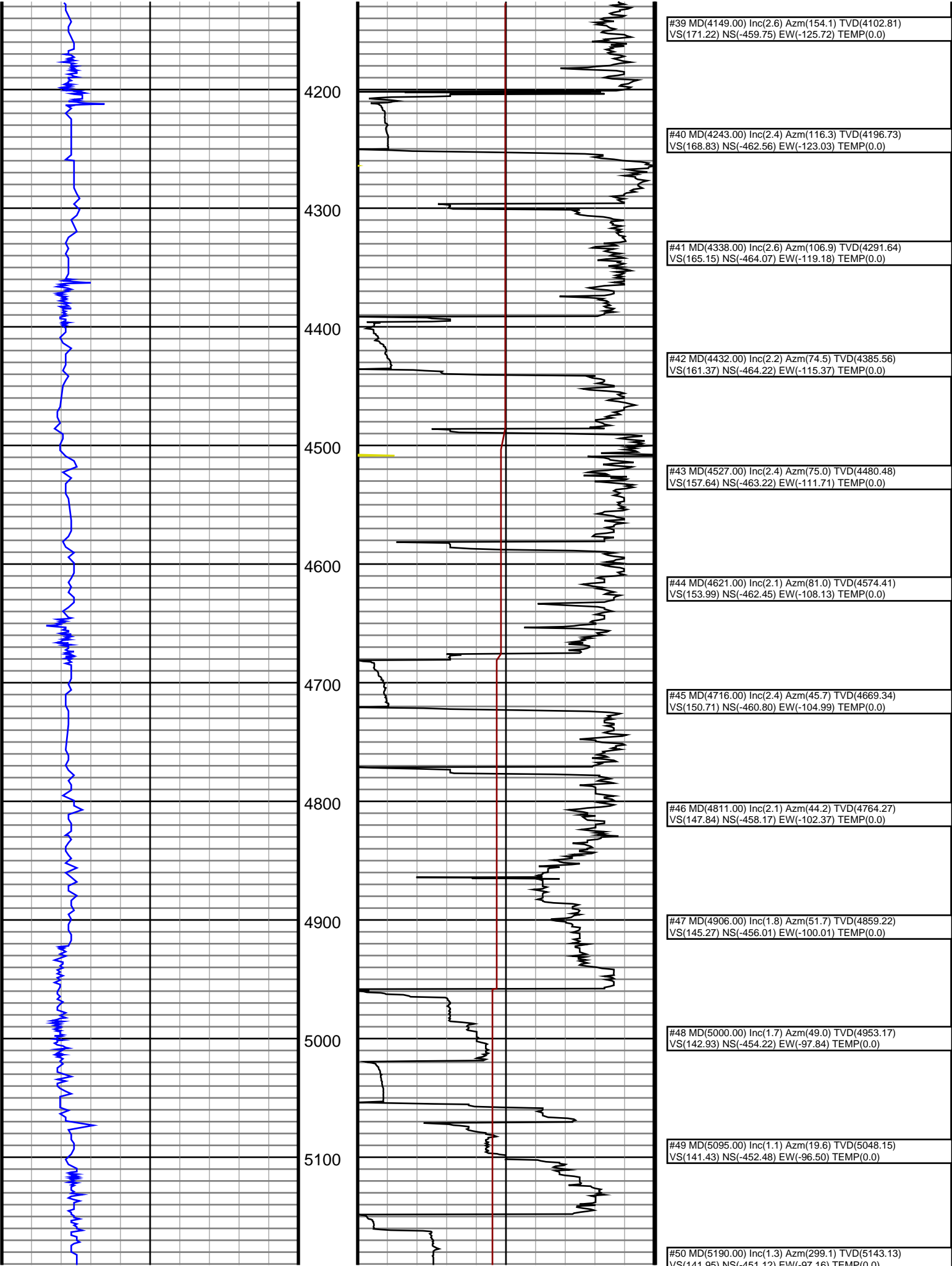
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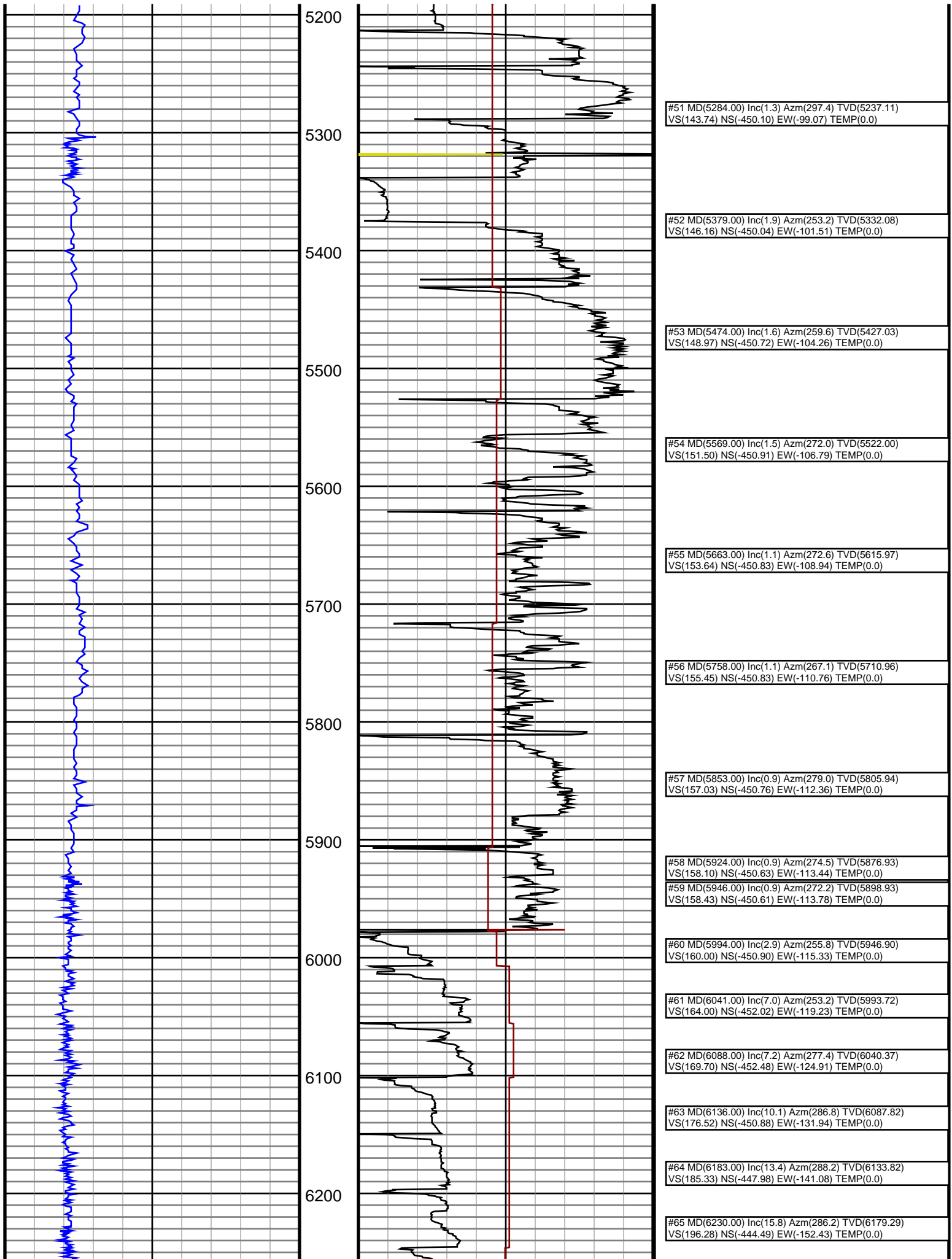


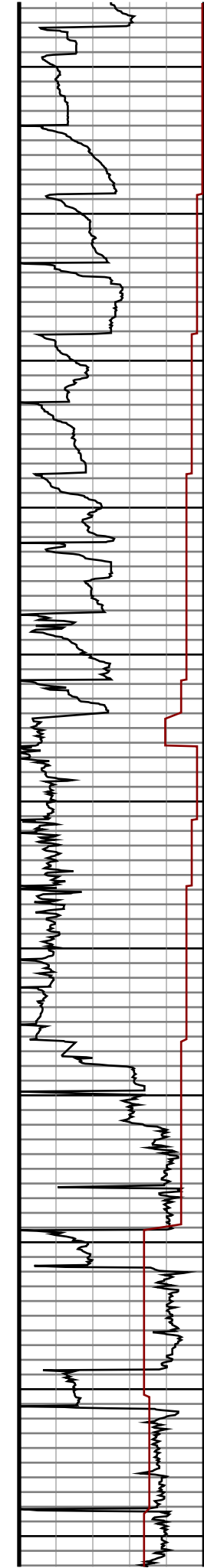
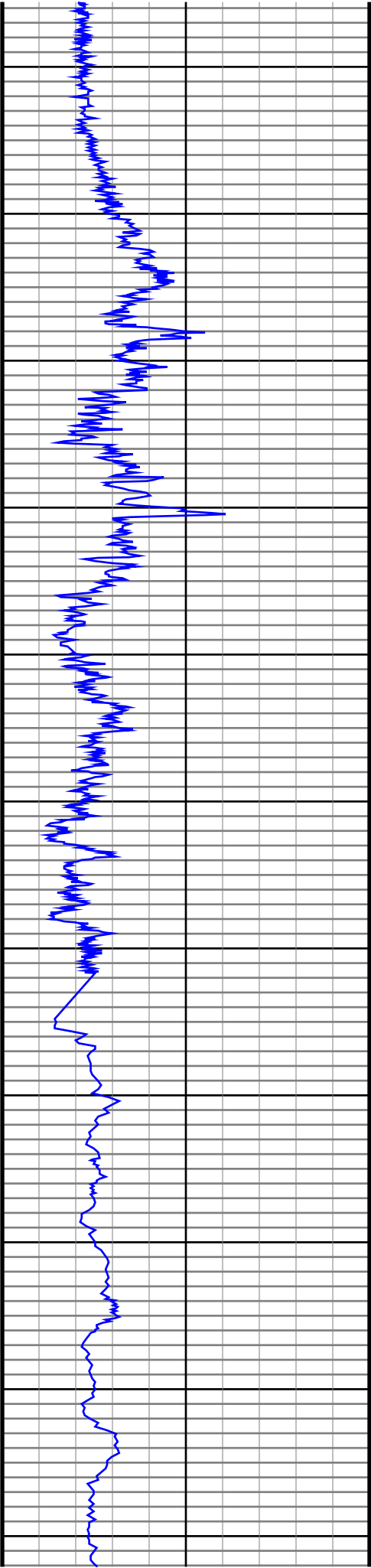












#66 MD(6278.00) Inc(17.9) Azm(288.2) TVD(6225.22)
VS(209.11) NS(-440.36) EW(-165.75) TEMP(0.0)

#67 MD(6325.00) Inc(22.3) Azm(283.2) TVD(6269.34)
VS(224.18) NS(-436.05) EW(-181.33) TEMP(0.0)

#68 MD(6372.00) Inc(27.3) Azm(280.4) TVD(6311.99)
VS(242.97) NS(-432.06) EW(-200.62) TEMP(0.0)

#69 MD(6420.00) Inc(32.2) Azm(277.4) TVD(6353.67)
VS(265.99) NS(-428.42) EW(-224.12) TEMP(0.0)

#70 MD(6467.00) Inc(35.5) Azm(272.3) TVD(6392.70)
VS(291.71) NS(-426.24) EW(-250.19) TEMP(0.0)

#71 MD(6514.00) Inc(40.0) Azm(268.5) TVD(6429.85)
VS(320.31) NS(-426.08) EW(-278.96) TEMP(0.0)

#72 MD(6562.00) Inc(45.6) Azm(267.1) TVD(6465.04)
VS(352.87) NS(-427.38) EW(-311.55) TEMP(0.0)

#73 MD(6609.00) Inc(50.8) Azm(266.4) TVD(6496.33)
VS(387.88) NS(-429.37) EW(-346.54) TEMP(0.0)

#74 MD(6656.00) Inc(54.6) Azm(266.9) TVD(6524.80)
VS(425.24) NS(-431.54) EW(-383.86) TEMP(0.0)

#75 MD(6704.00) Inc(60.6) Azm(266.3) TVD(6550.51)
VS(465.71) NS(-433.96) EW(-424.30) TEMP(0.0)

#76 MD(6751.00) Inc(67.9) Azm(266.3) TVD(6570.92)
VS(507.98) NS(-436.71) EW(-466.51) TEMP(0.0)

#77 MD(6798.00) Inc(73.3) Azm(267.6) TVD(6586.52)
VS(552.25) NS(-439.08) EW(-510.76) TEMP(0.0)

#78 MD(6846.00) Inc(79.1) Azm(271.3) TVD(6597.94)
VS(598.65) NS(-439.52) EW(-557.35) TEMP(0.0)

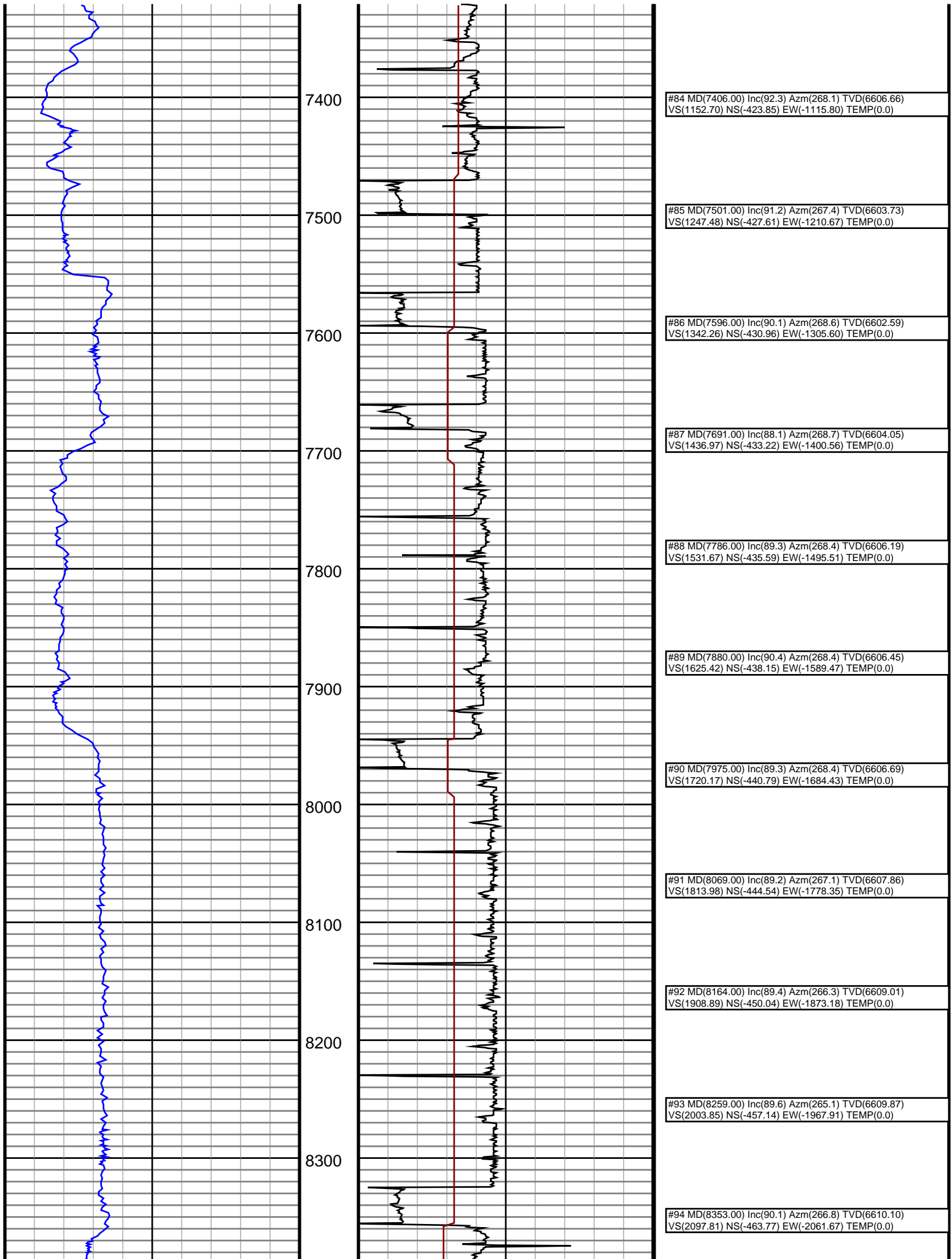
#79 MD(6893.00) Inc(84.5) Azm(273.6) TVD(6604.62)
VS(644.68) NS(-437.54) EW(-603.81) TEMP(0.0)

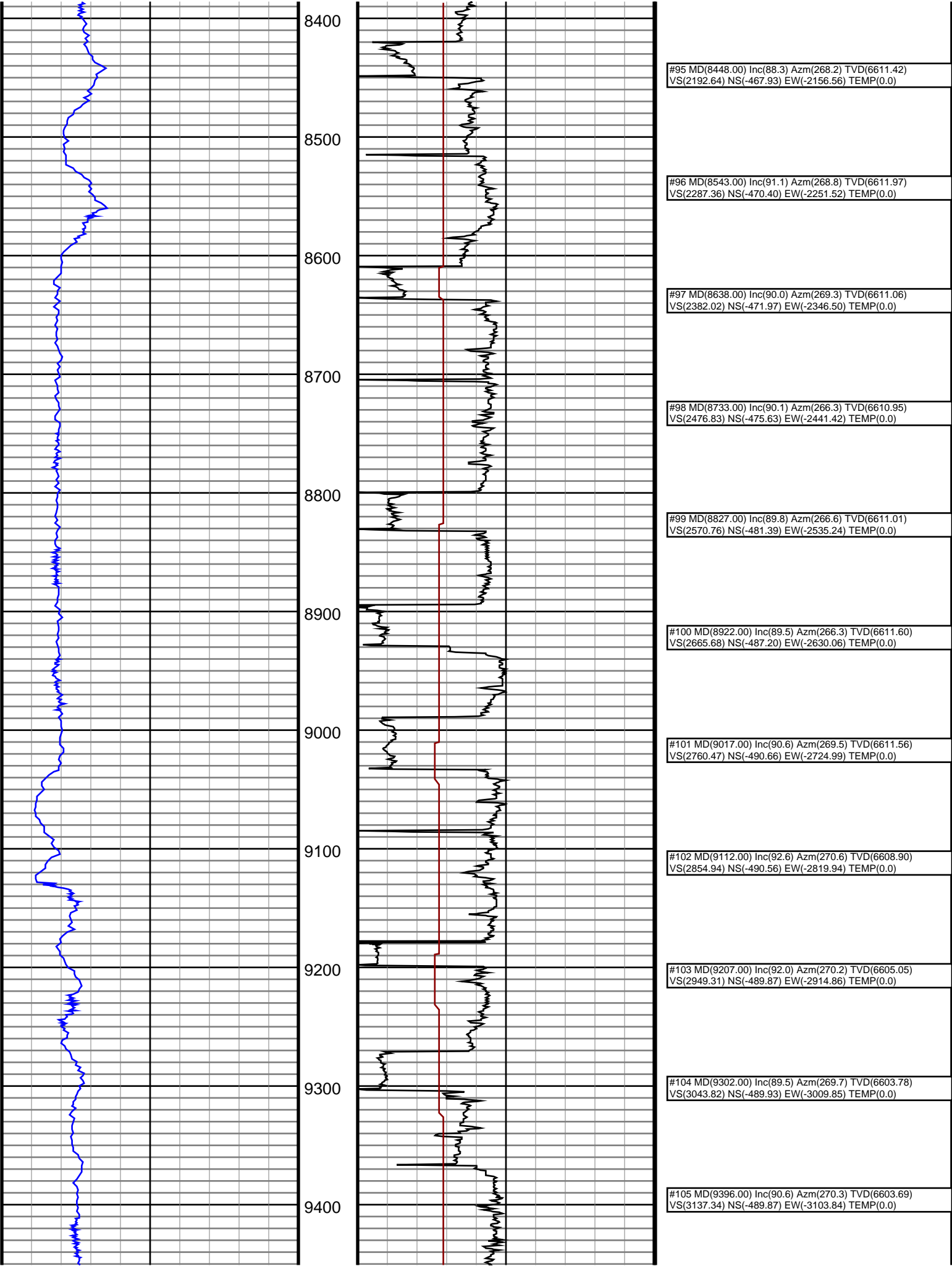
#80 MD(7027.00) Inc(91.2) Azm(275.7) TVD(6609.61)
VS(776.30) NS(-426.70) EW(-737.20) TEMP(0.0)

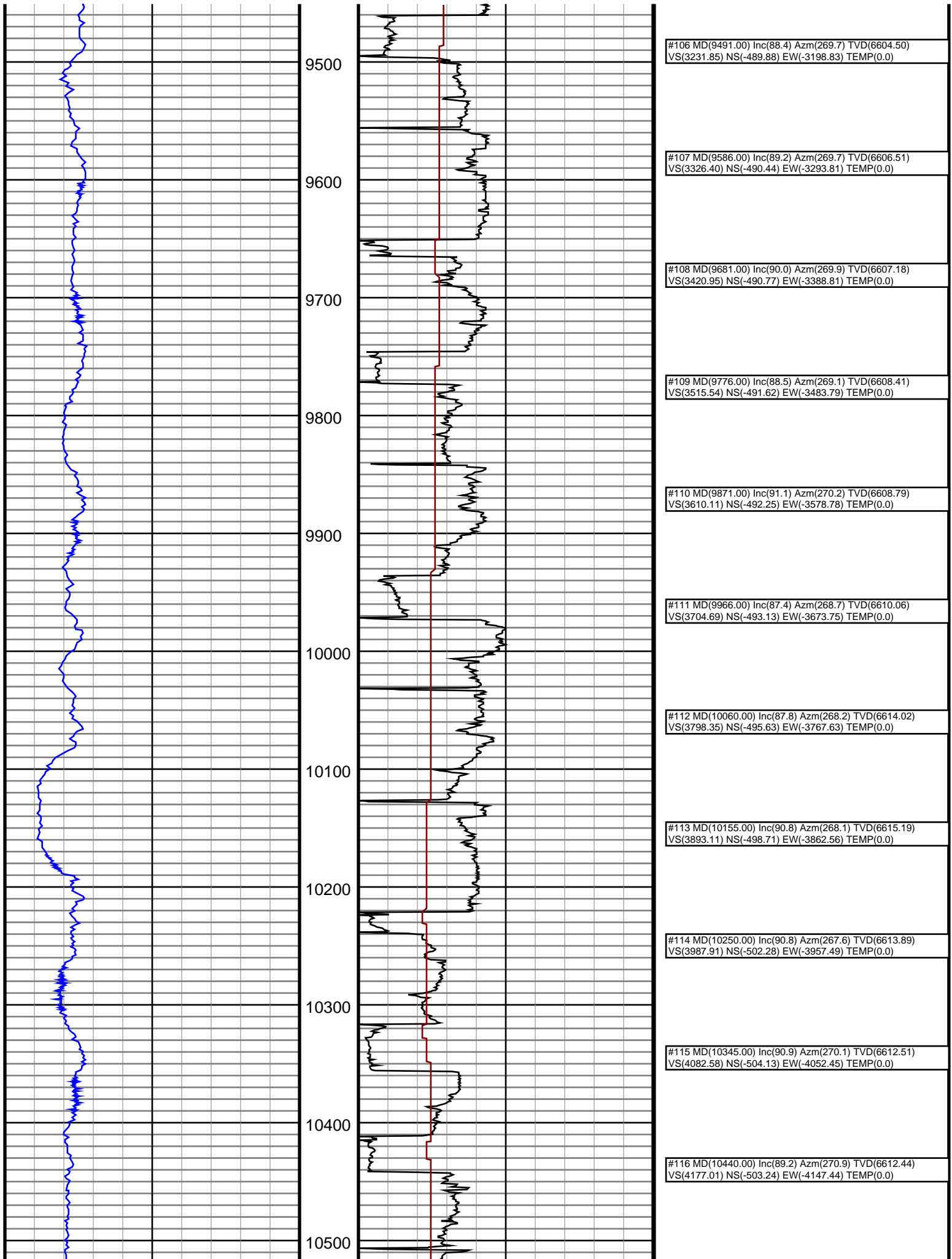
#81 MD(7122.00) Inc(90.4) Azm(272.5) TVD(6608.24)
VS(869.87) NS(-419.92) EW(-831.93) TEMP(0.0)

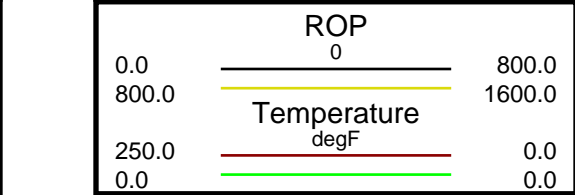
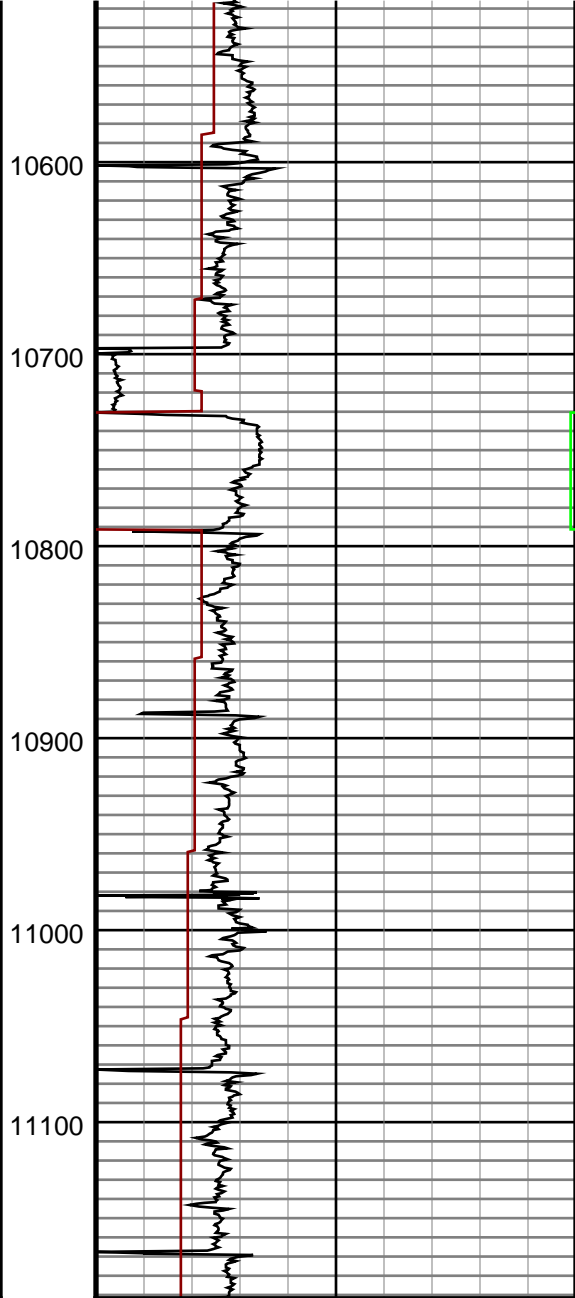
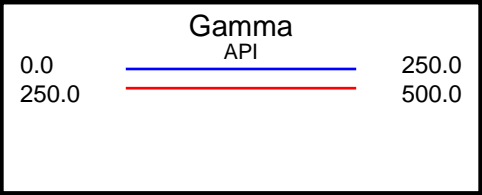
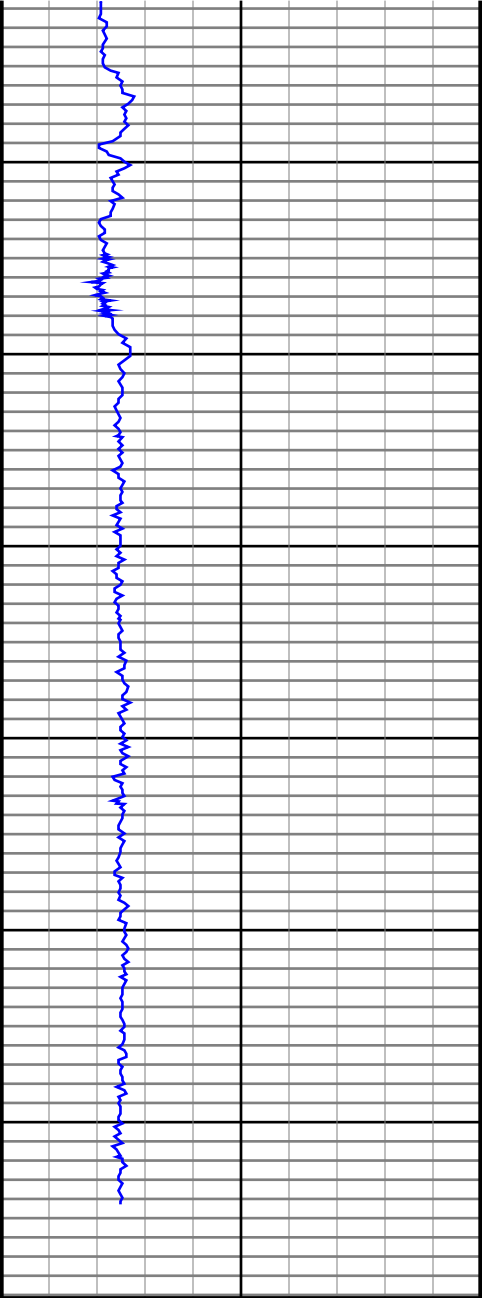
#82 MD(7217.00) Inc(88.8) Azm(268.7) TVD(6608.88)
VS(964.27) NS(-418.97) EW(-926.90) TEMP(0.0)

#83 MD(7312.00) Inc(90.8) Azm(268.7) TVD(6609.21)
VS(1058.98) NS(-421.18) EW(-1021.87) TEMP(0.0)









#117 MD(10535.00) Inc(89.3) Azm(270.6) TVD(6613.68)
VS(4271.39) NS(-501.99) EW(-4242.42) TEMP(195.0)

#118 MD(10629.00) Inc(90.6) Azm(270.3) TVD(6613.80)
VS(4364.84) NS(-501.31) EW(-4336.42) TEMP(198.6)

#119 MD(10724.00) Inc(90.0) Azm(271.9) TVD(6613.37)
VS(4459.16) NS(-499.51) EW(-4431.40) TEMP(195.0)

#120 MD(10818.00) Inc(88.9) Azm(268.8) TVD(6614.29)
VS(4552.60) NS(-498.91) EW(-4525.38) TEMP(198.6)

#121 MD(10913.00) Inc(89.5) Azm(268.9) TVD(6615.61)
VS(4647.28) NS(-500.75) EW(-4620.35) TEMP(202.2)

#122 MD(11008.00) Inc(89.0) Azm(266.6) TVD(6616.86)
VS(4742.09) NS(-504.46) EW(-4715.26) TEMP(205.8)

#123 MD(11102.00) Inc(89.6) Azm(267.2) TVD(6618.03)
VS(4835.98) NS(-509.55) EW(-4809.12) TEMP(205.8)

#124 MD(11127.00) Inc(89.3) Azm(266.3) TVD(6618.27)
VS(4860.95) NS(-510.96) EW(-4834.08) TEMP(205.8)

#125 MD(11192.00) Inc(89.3) Azm(266.3) TVD(6619.02)
VS(4923.50) NS(-515.13) EW(-4896.94) TEMP(205.8)