

TIMBRO STATE LD16-68-1HN

MD
2":100'

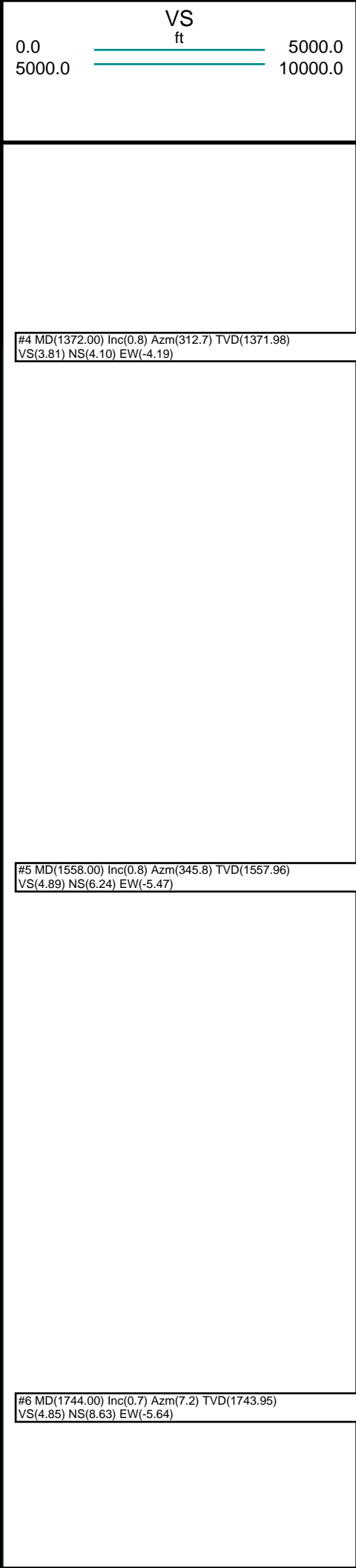
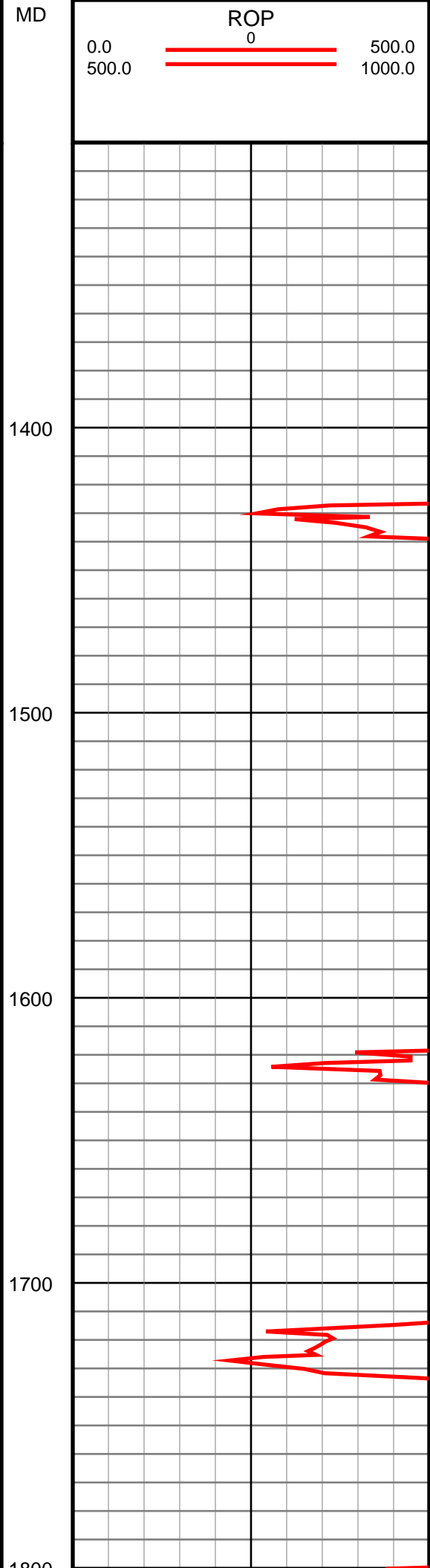
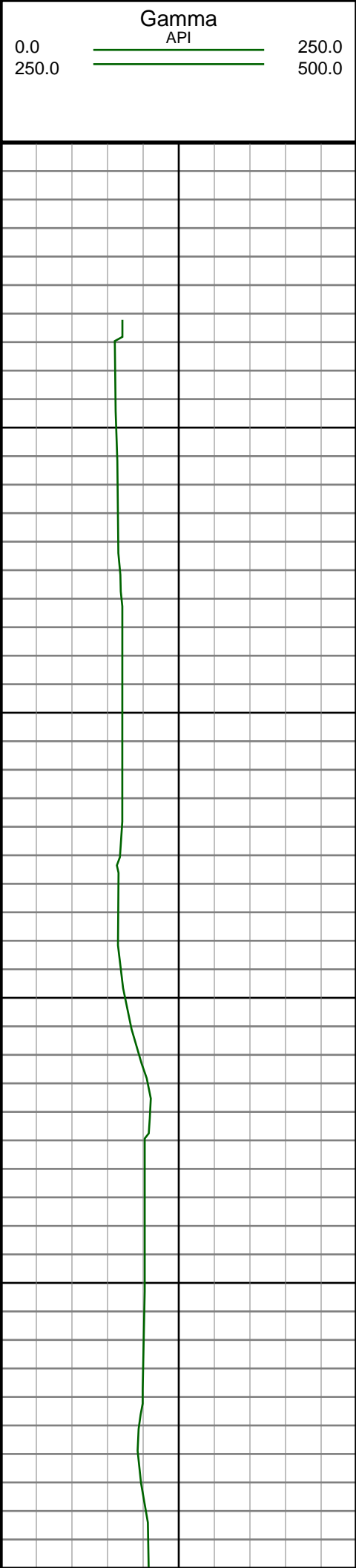
Company: Noble Energy Inc
Well Name: TIMBRO STATE LD16-68-1HN
UWI or LSD: 05-123-37493
Rig Id: H&P 273
State: Colorado
County/Parish: Weld
Country: USA
Survey Company: Ensign Directional
Job number: 139452
Dir. Driller Days Kody Wood
Dir. Driller Nights Brett Blank
MWD/LWD Days Tyler Teague
MWD/LWD Nights Jamey House

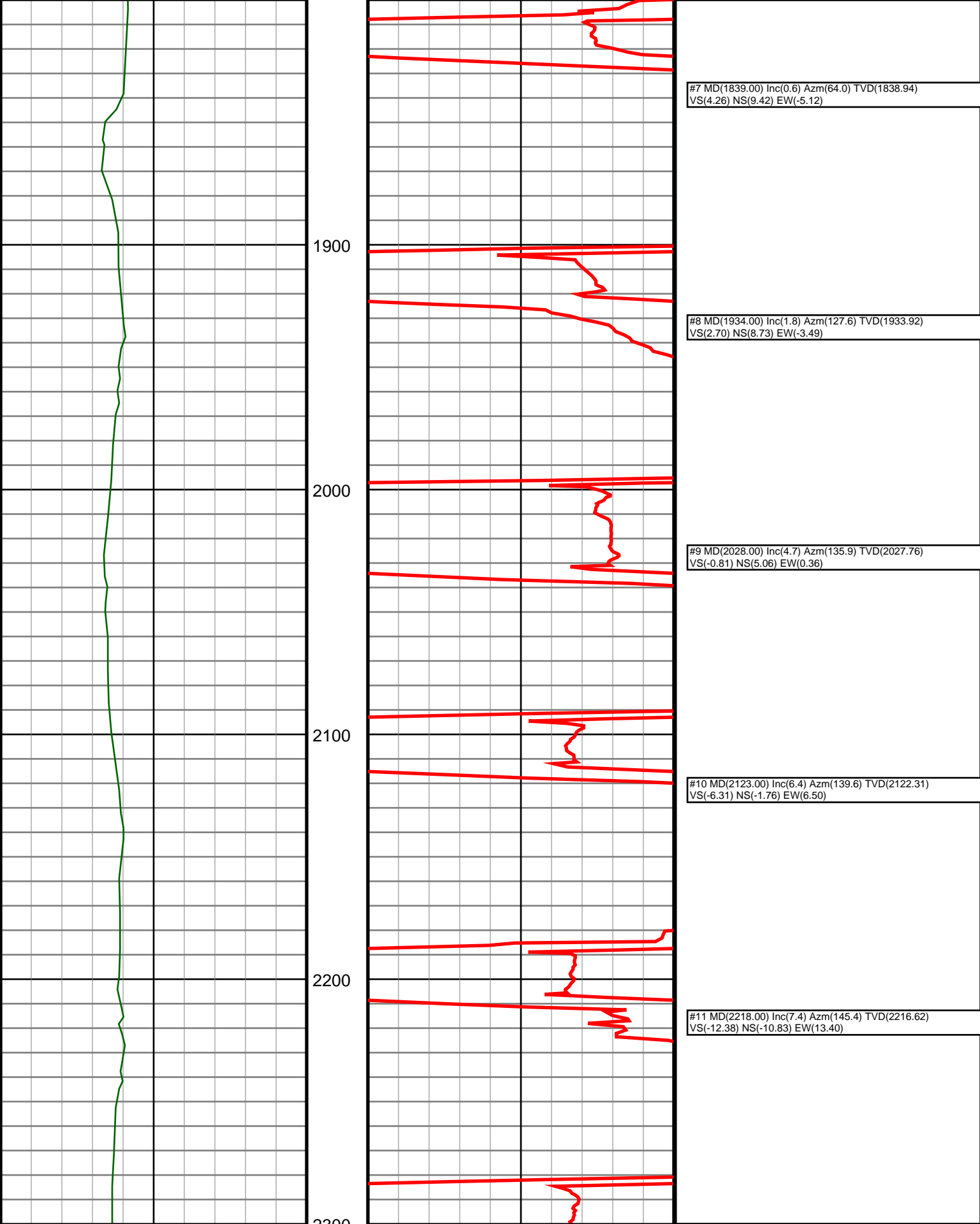
Log measurements:
Depth measured from:
Maximum temperature:

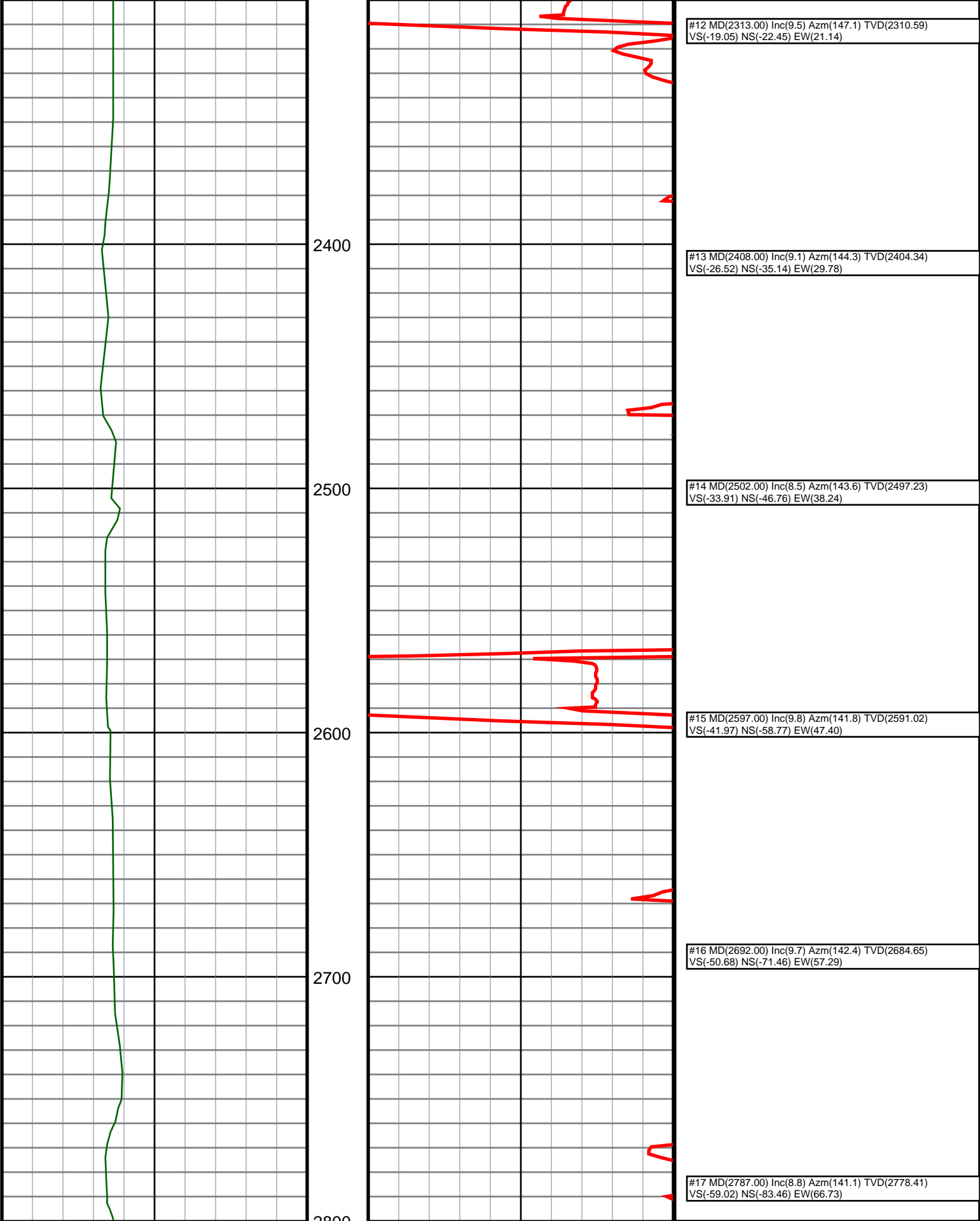
Depth **Date**
Start: 1265 ft 11/18/2013
End: 9870 ft 11/24/2013

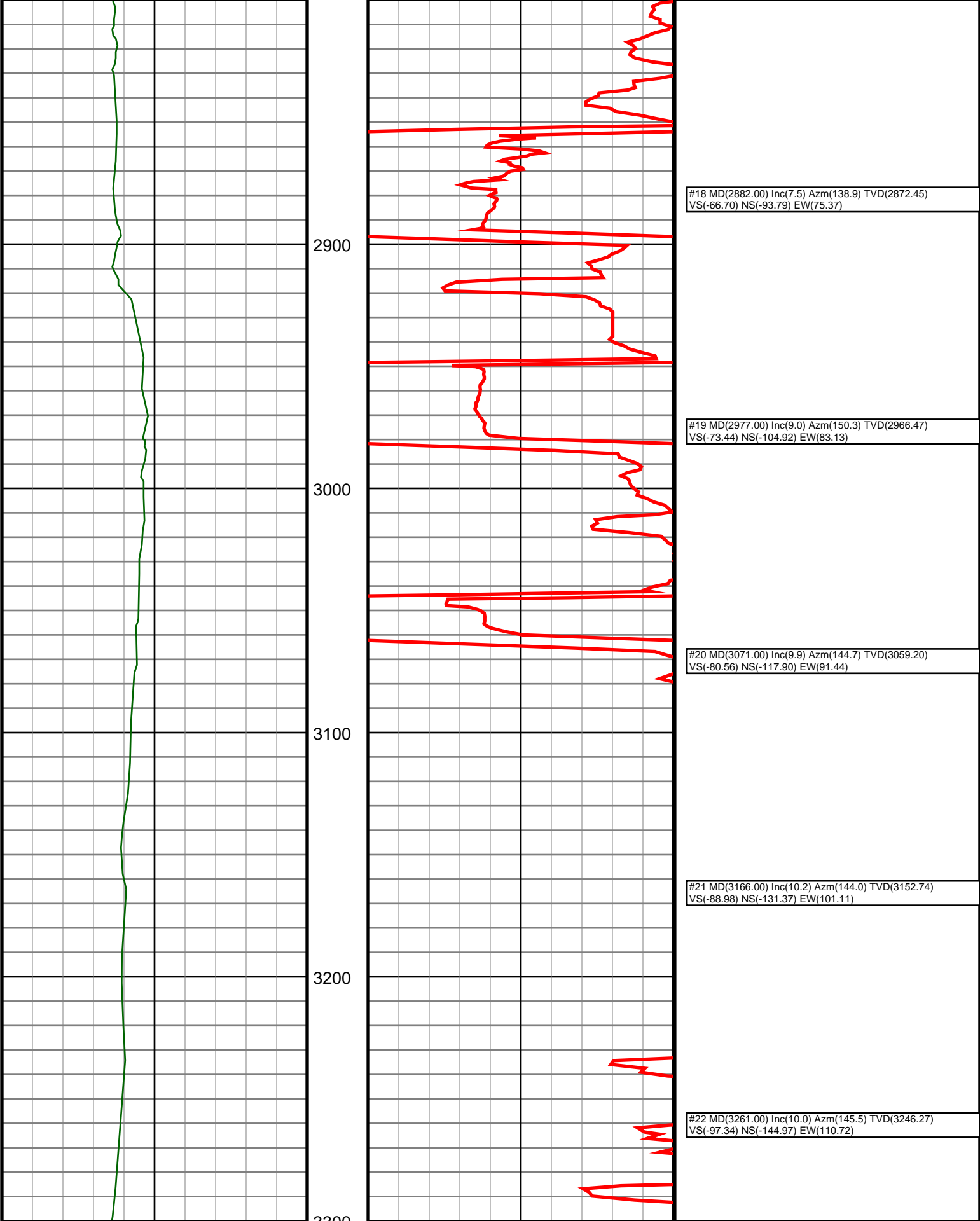
Casing	Depth	Size	Mud Type:	Elevations
Surface:	1255	9.625	Density:	KB: 4748
Intermediate:	6069	7	Viscosity:	GL: 4724
			Rm:	DF: 4748
			Rmf:	
			Rmc:	

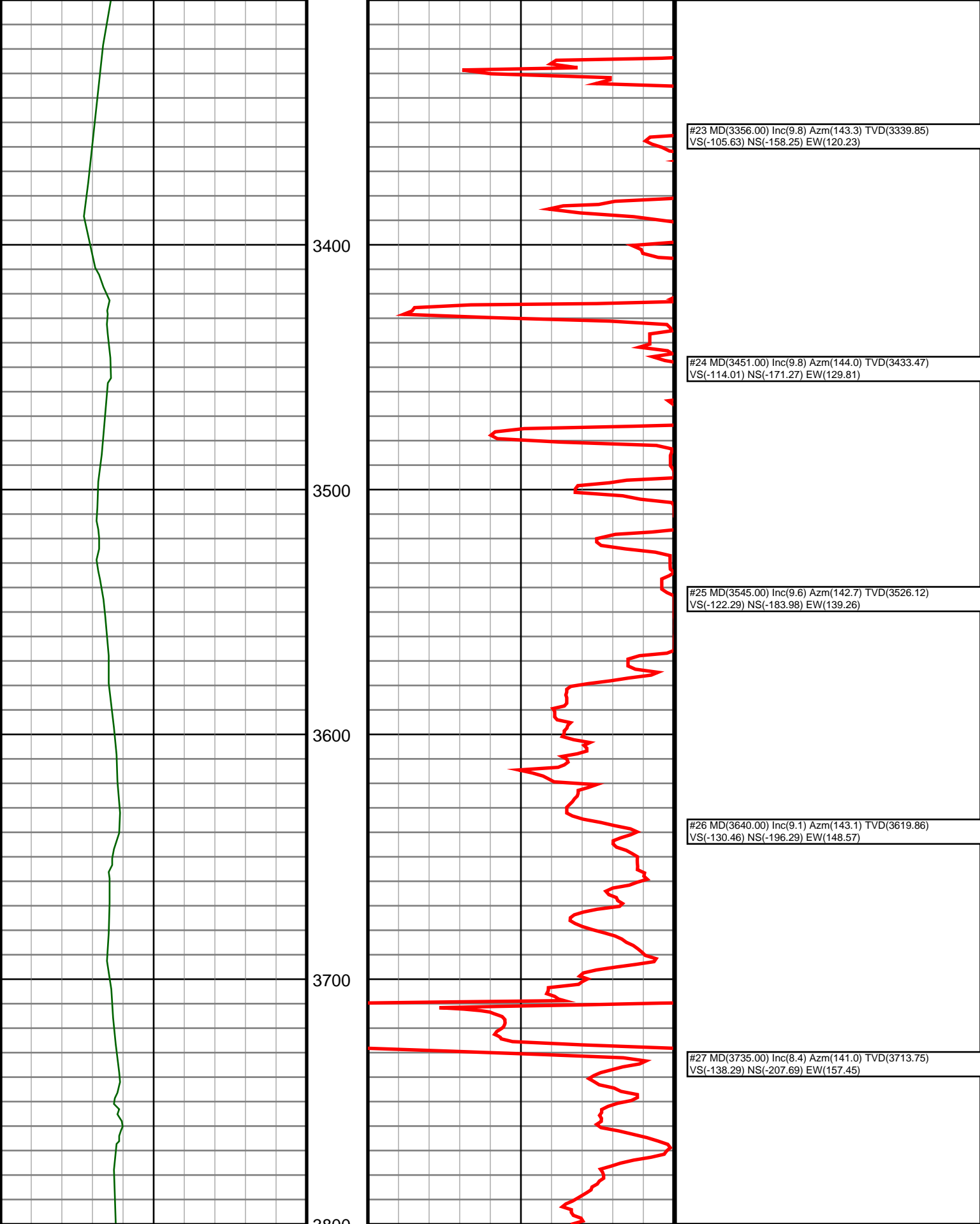
Run	Bit Size	Offsets	Gamma Survey	Start	Depths	End	Start	Dates	End
1	8.75	-1.00	-1.00	0	1265		11/17/2013		11/18/2013
2	8.75	61.91	56.91	1265	4945		11/18/2013		11/19/2013
3	8.75	61.86	56.86	4945	6080		11/19/2013		11/20/2013
4	6.125	71.35	66.35	6080	7448		11/21/2013		11/22/2013
5	6.125	72.11	67.11	7448	9870		11/22/2013		11/24/2013
6									
7									
8									
9									
10									

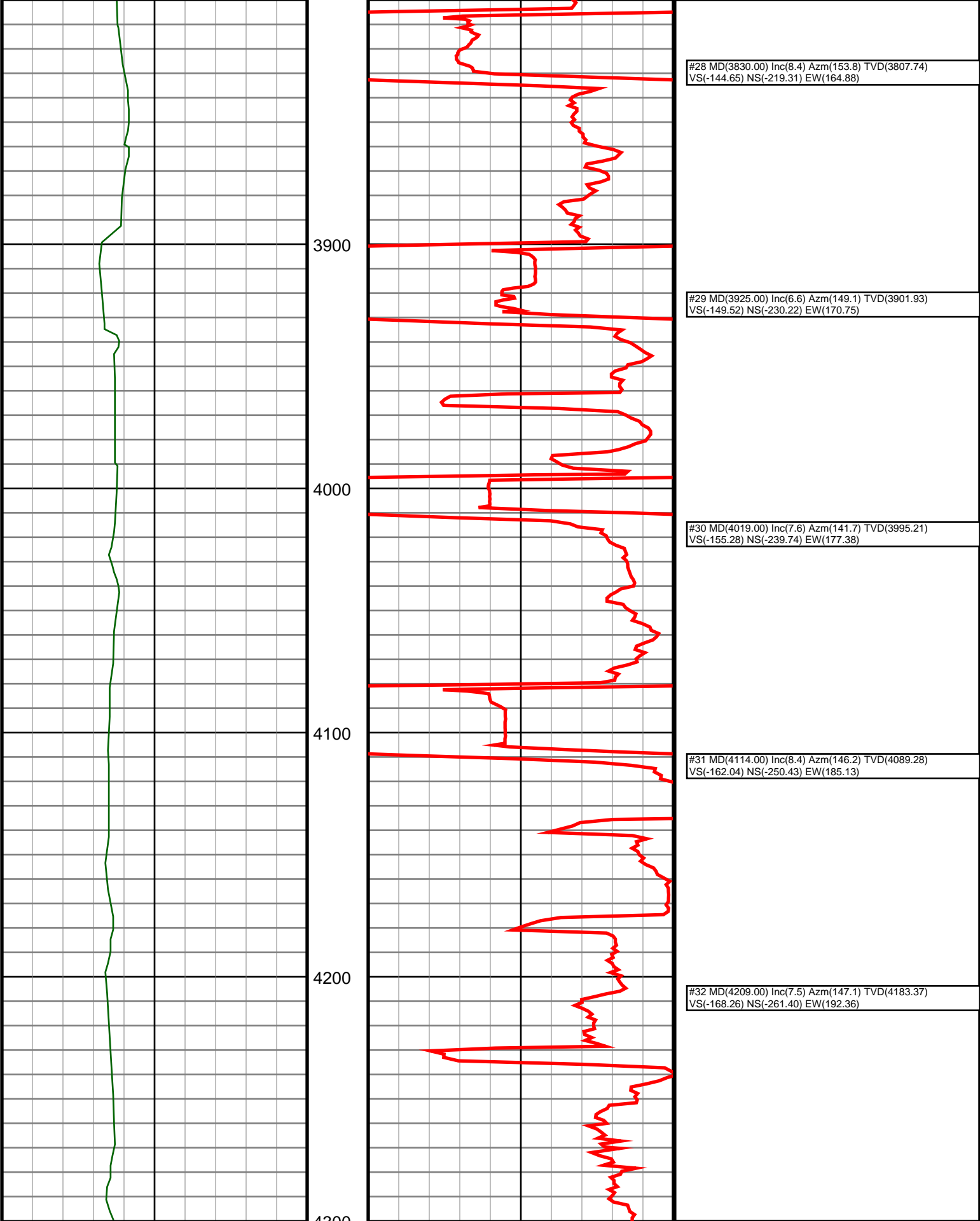


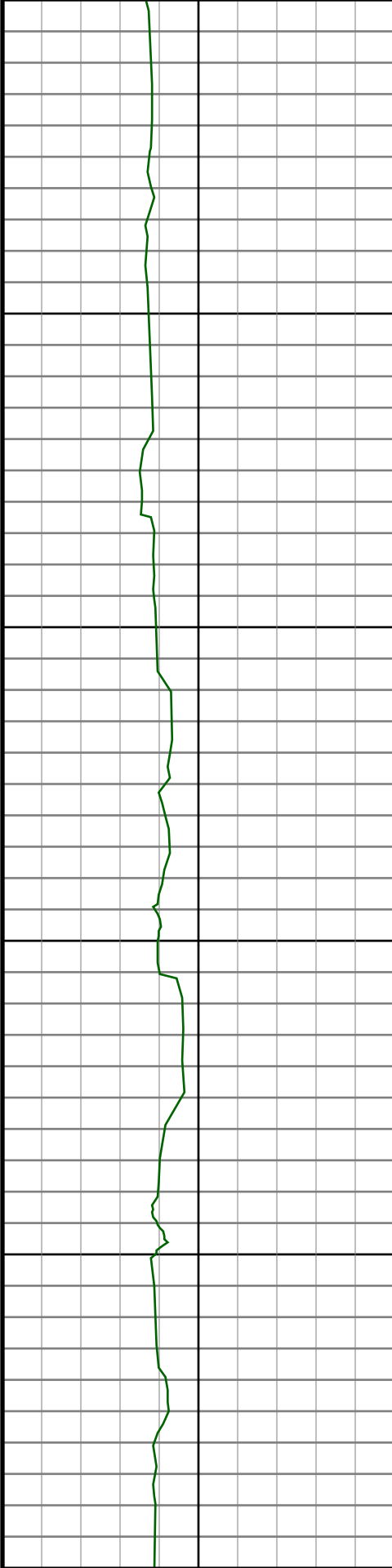












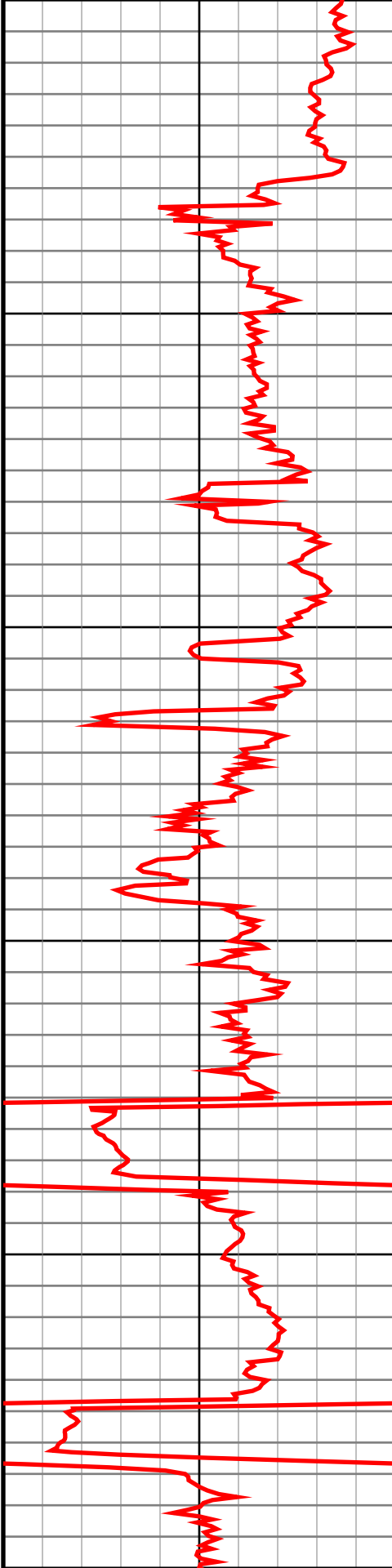
4400

4500

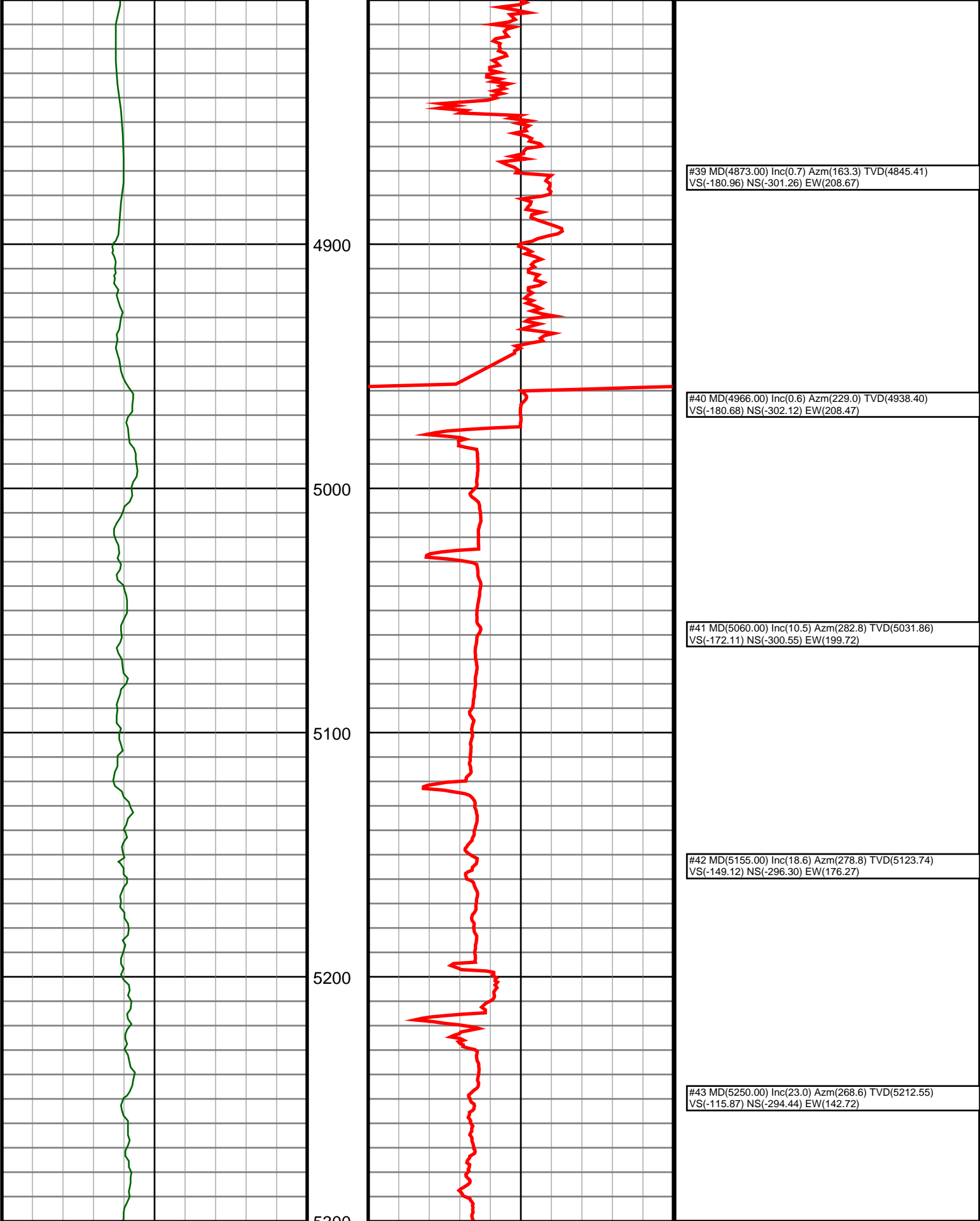
4600

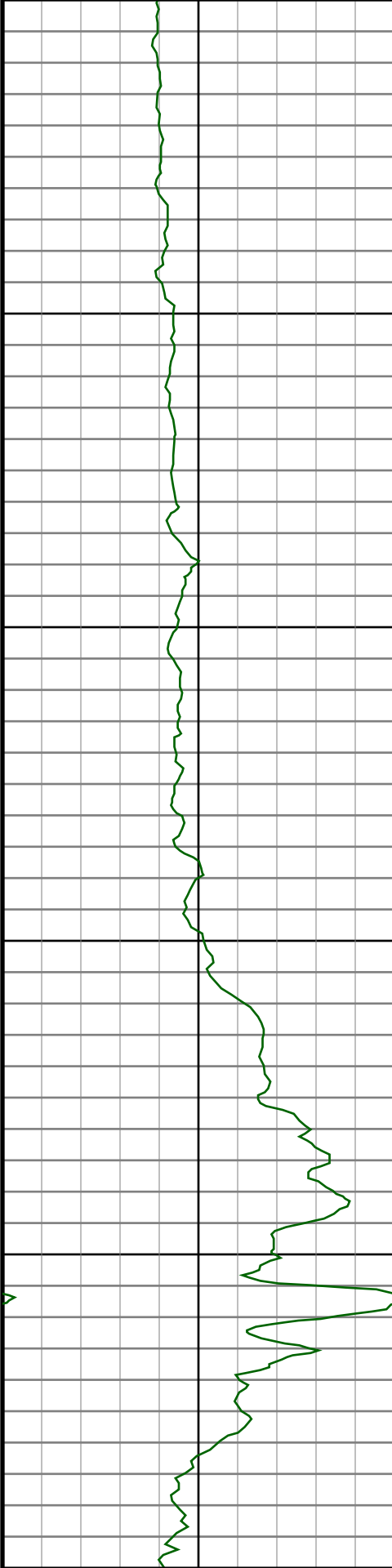
4700

4800



#33 MD(4304.00) Inc(6.5) Azm(149.6) TVD(4277.66) VS(-173.45) NS(-271.25) EW(198.45)
#34 MD(4399.00) Inc(5.5) Azm(152.4) TVD(4372.14) VS(-177.49) NS(-279.92) EW(203.28)
#35 MD(4494.00) Inc(4.4) Azm(159.2) TVD(4466.78) VS(-180.21) NS(-287.36) EW(206.68)
#36 MD(4588.00) Inc(3.5) Azm(162.2) TVD(4560.56) VS(-181.82) NS(-293.47) EW(208.84)
#37 MD(4683.00) Inc(2.2) Azm(195.6) TVD(4655.45) VS(-181.81) NS(-297.98) EW(209.24)
#38 MD(4778.00) Inc(0.6) Azm(193.9) TVD(4750.42) VS(-181.00) NS(-300.22) EW(208.63)





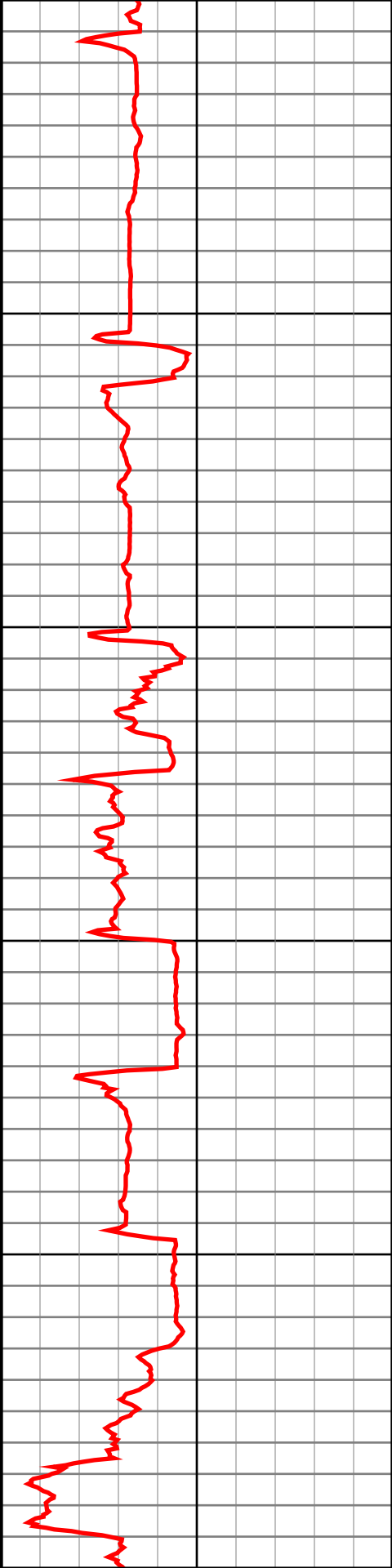
5400

5500

5600

5700

5800



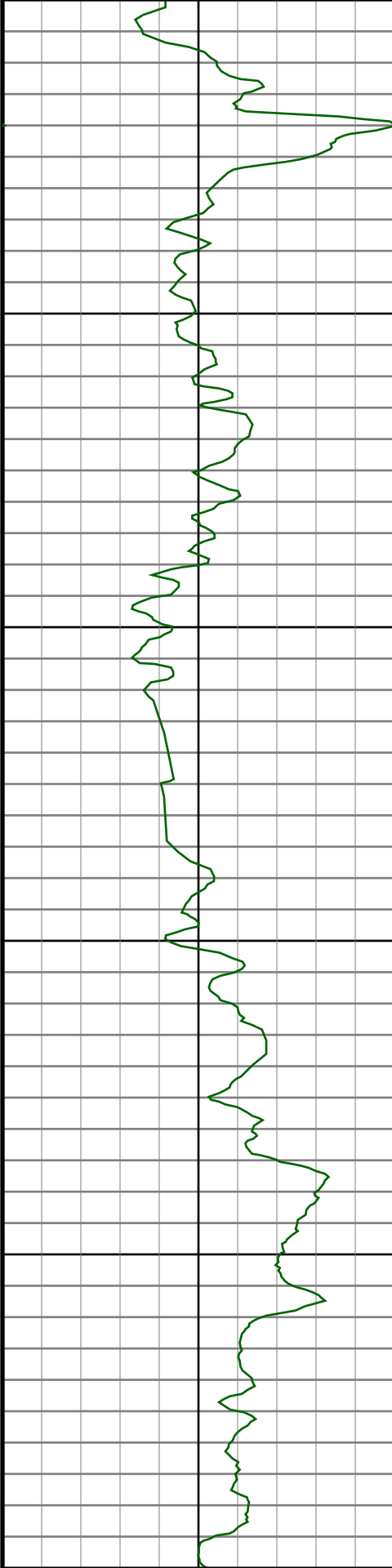
#44 MD(5345.00) Inc(32.1) Azm(268.1) TVD(5296.69)
VS(-72.06) NS(-295.73) EW(98.84)

#45 MD(5440.00) Inc(40.4) Azm(266.5) TVD(5373.24)
VS(-15.98) NS(-298.45) EW(42.79)

#46 MD(5535.00) Inc(47.3) Azm(266.3) TVD(5441.71)
VS(49.77) NS(-302.59) EW(-22.86)

#47 MD(5630.00) Inc(52.8) Azm(265.9) TVD(5502.69)
VS(122.55) NS(-307.55) EW(-95.49)

#48 MD(5724.00) Inc(57.4) Azm(266.5) TVD(5556.46)
VS(199.60) NS(-312.65) EW(-172.39)



5900

6000

6100

6200

6300



#49 MD(5819.00) Inc(60.8) Azm(266.8) TVD(5605.23)
VS(281.07) NS(-317.41) EW(-253.76)

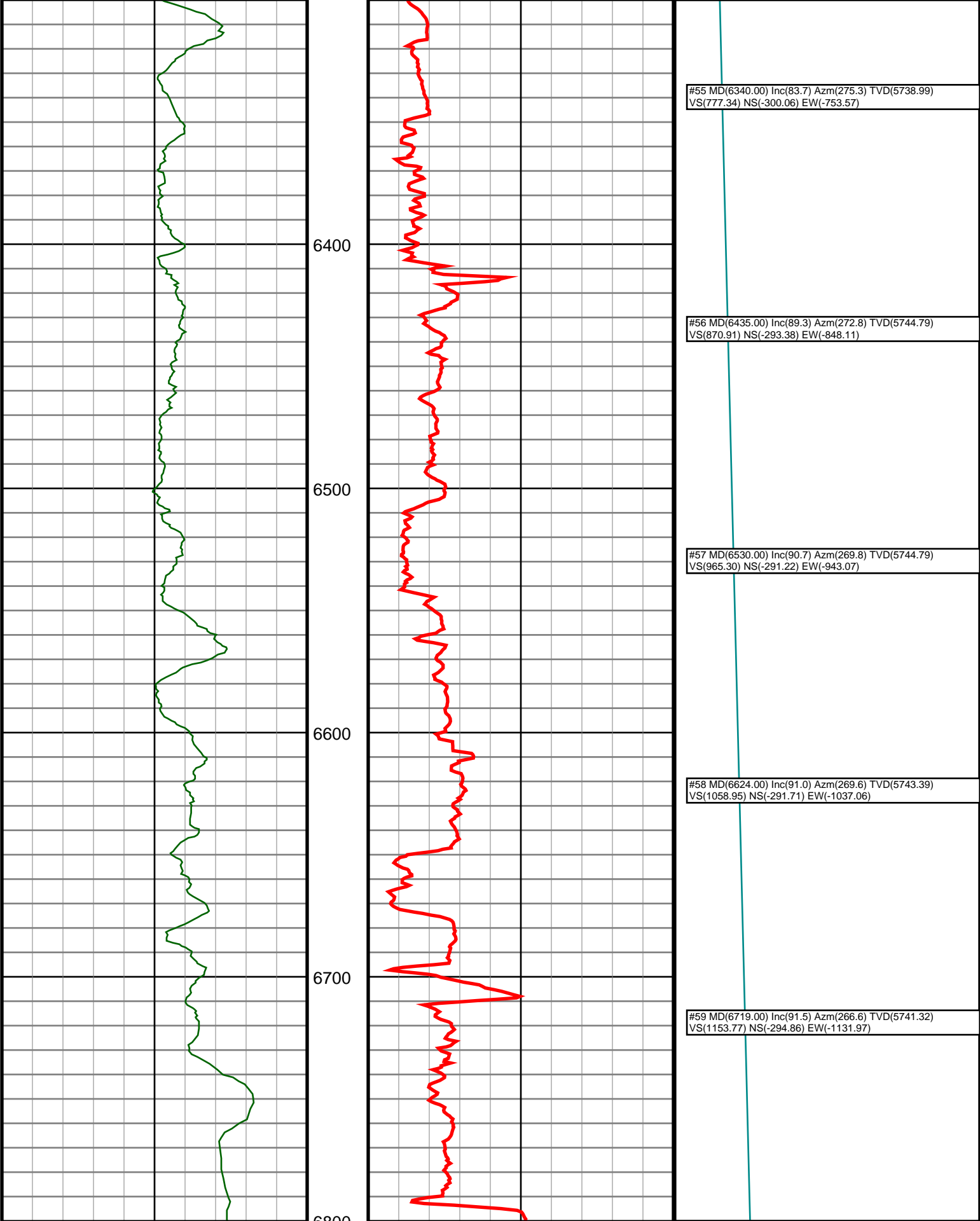
#50 MD(5914.00) Inc(68.9) Azm(269.6) TVD(5645.58)
VS(366.83) NS(-320.03) EW(-339.63)

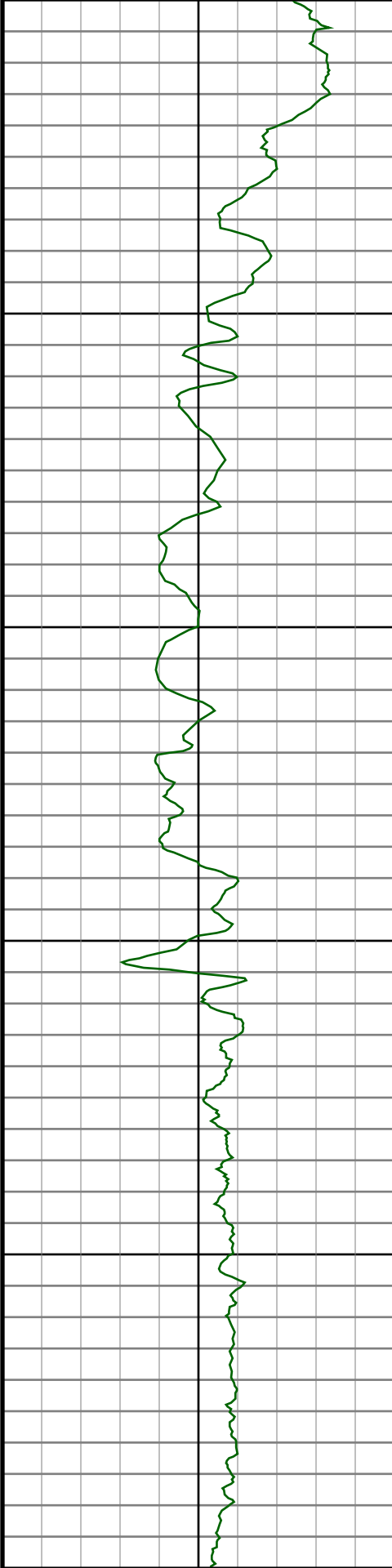
#51 MD(6020.00) Inc(75.3) Azm(271.2) TVD(5678.15)
VS(467.17) NS(-319.31) EW(-440.44)

#52 MD(6092.00) Inc(79.6) Azm(270.9) TVD(5693.79)
VS(537.03) NS(-318.02) EW(-510.69)

#53 MD(6154.00) Inc(79.1) Azm(271.0) TVD(5705.25)
VS(597.62) NS(-317.01) EW(-571.61)

#54 MD(6247.00) Inc(77.7) Azm(277.5) TVD(5723.96)
VS(687.45) NS(-310.27) EW(-662.41)





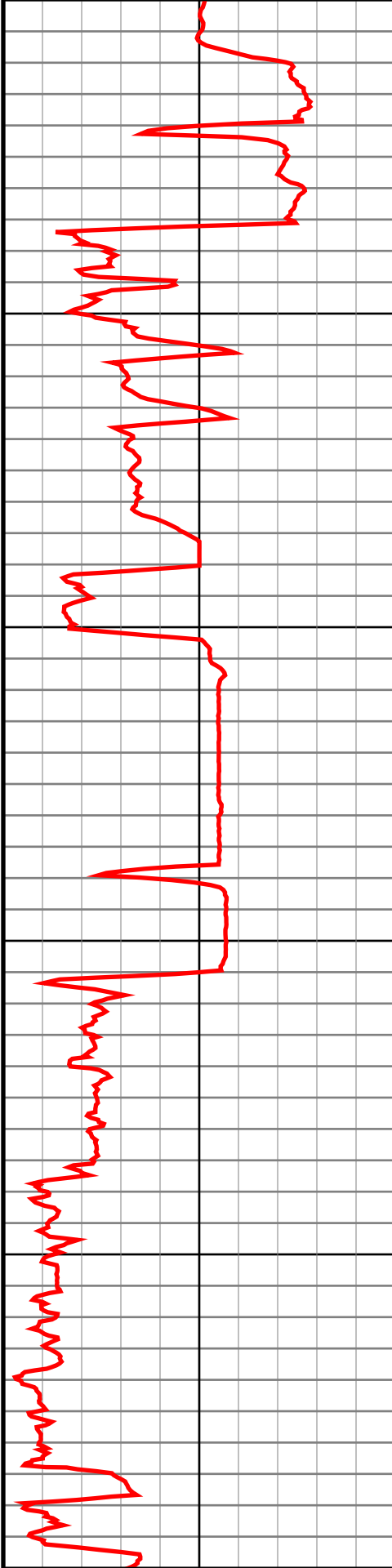
6900

7000

7100

7200

7300



#60 MD(6814.00) Inc(91.3) Azm(267.2) TVD(5739.00)
VS(1248.68) NS(-300.00) EW(-1226.80)

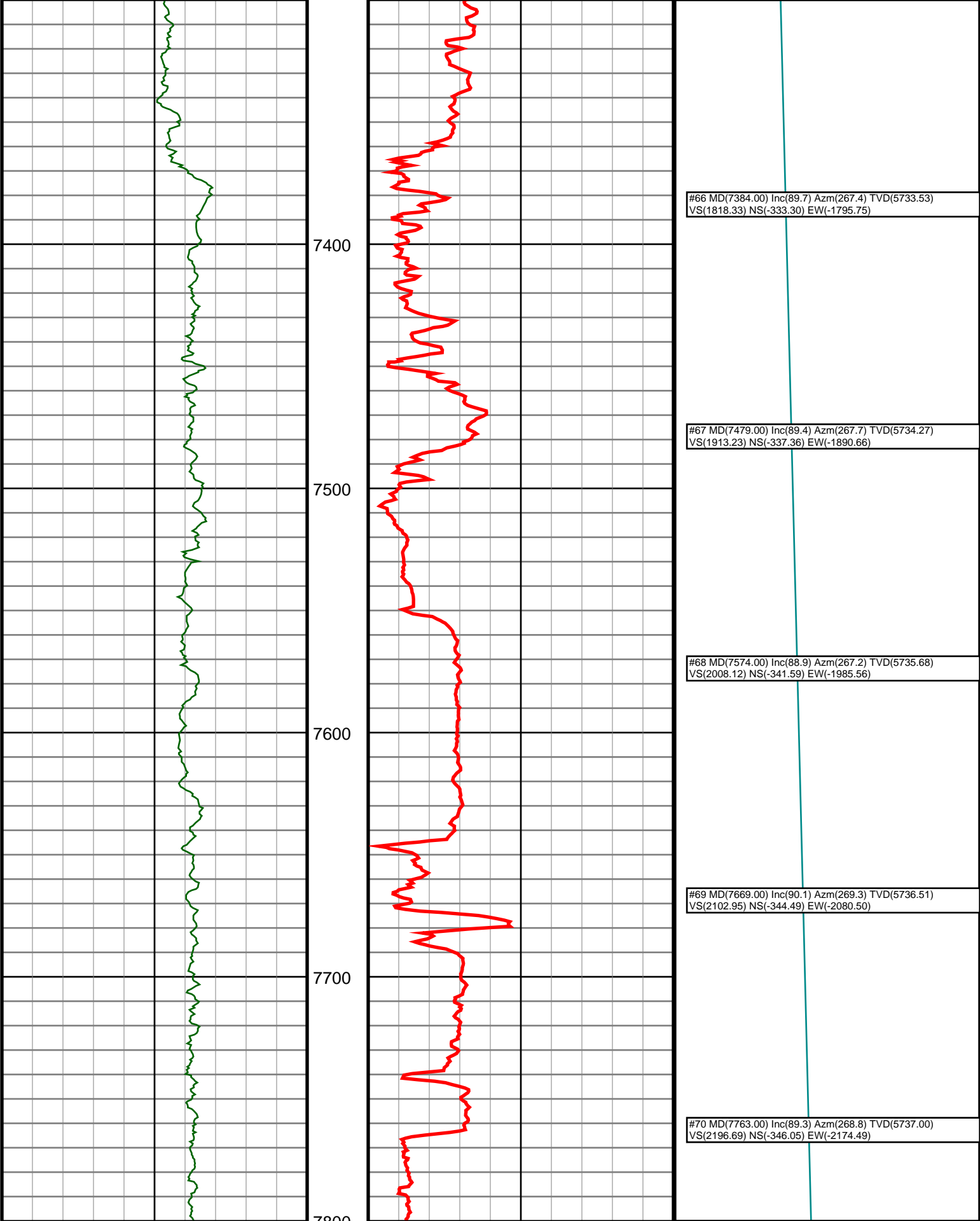
#61 MD(6909.00) Inc(91.8) Azm(267.0) TVD(5736.43)
VS(1343.58) NS(-304.80) EW(-1321.65)

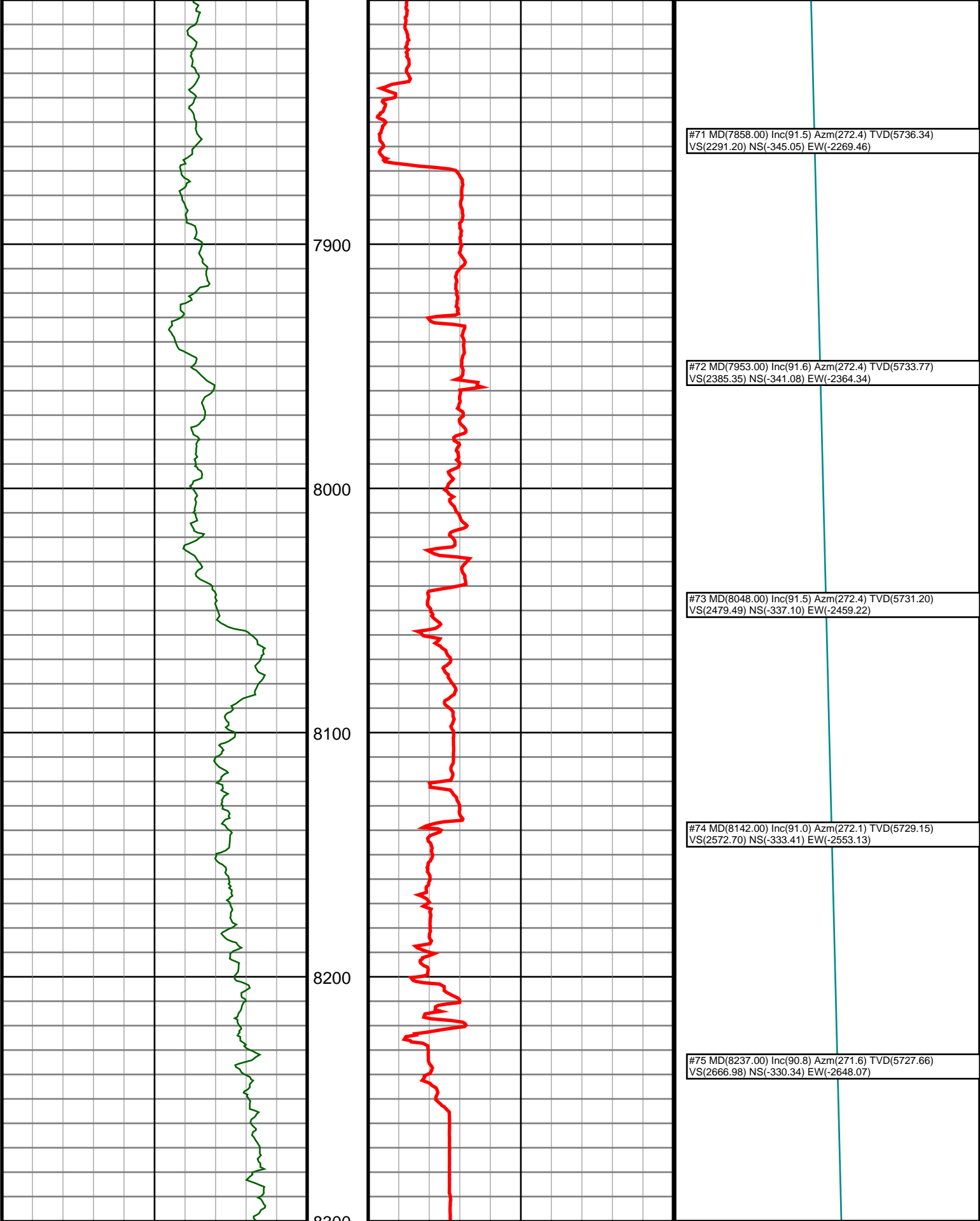
#62 MD(7004.00) Inc(90.7) Azm(266.6) TVD(5734.36)
VS(1438.50) NS(-310.10) EW(-1416.48)

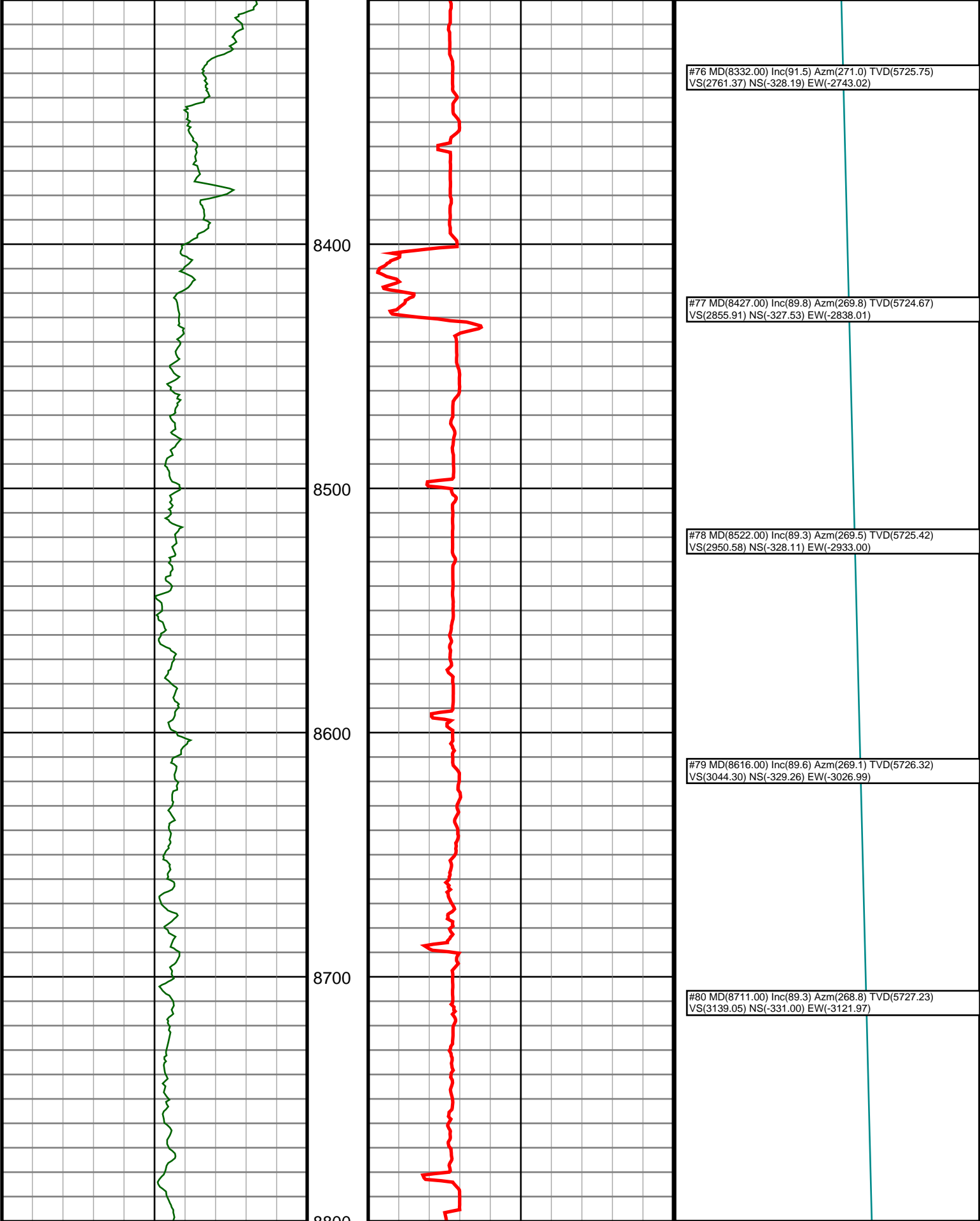
#63 MD(7099.00) Inc(90.3) Azm(266.5) TVD(5733.53)
VS(1533.45) NS(-315.82) EW(-1511.30)

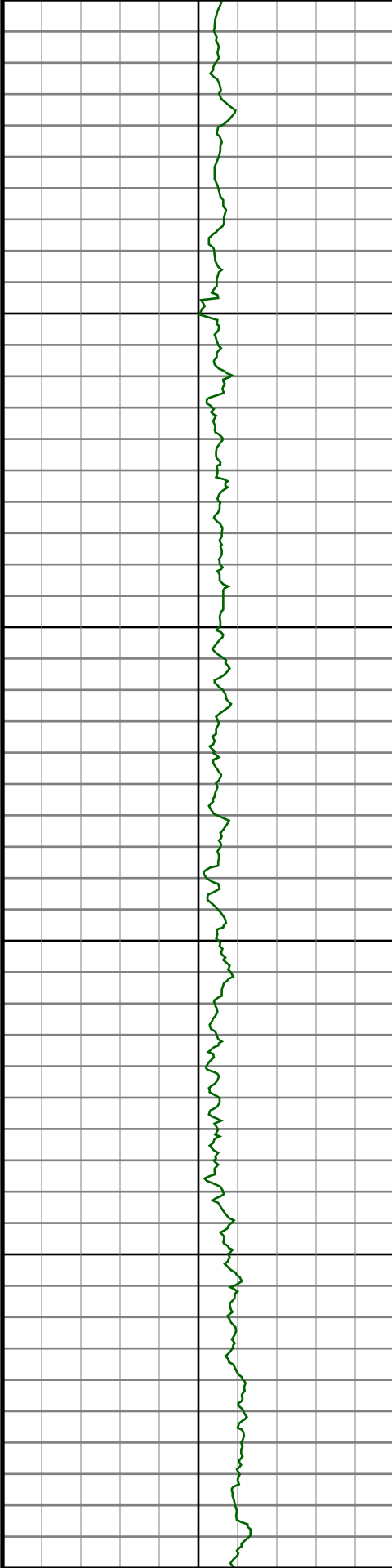
#64 MD(7194.00) Inc(90.0) Azm(265.9) TVD(5733.28)
VS(1628.43) NS(-322.12) EW(-1606.09)

#65 MD(7289.00) Inc(90.0) Azm(266.6) TVD(5733.28)
VS(1723.40) NS(-328.33) EW(-1700.89)









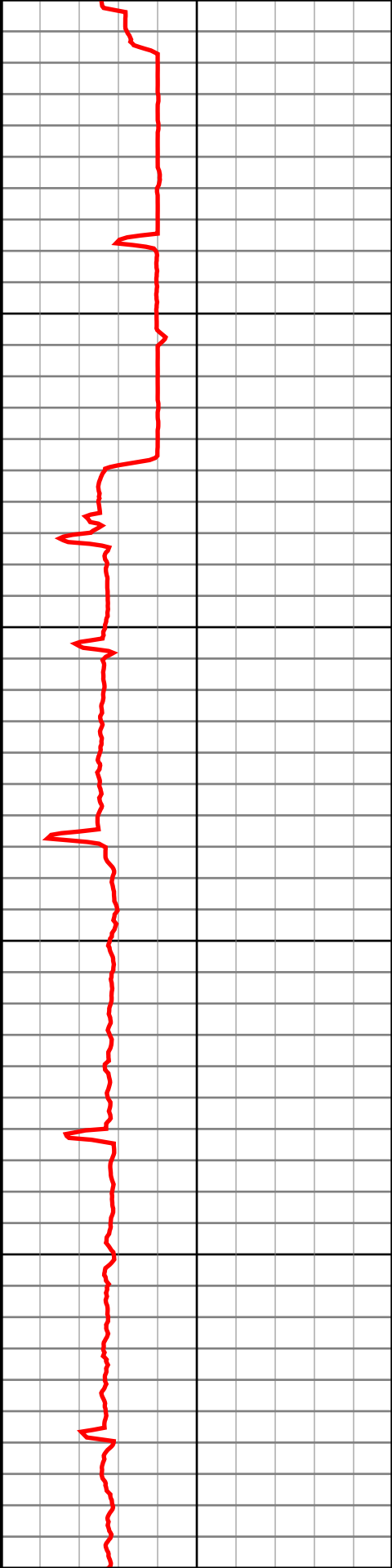
8900

9000

9100

9200

9300



#81 MD(8806.00) Inc(89.5) Azm(268.2) TVD(5728.23) VS(3233.86) NS(-333.48) EW(-3216.93)
#82 MD(8901.00) Inc(89.3) Azm(268.8) TVD(5729.22) VS(3328.66) NS(-335.97) EW(-3311.89)
#83 MD(8995.00) Inc(89.8) Azm(269.1) TVD(5729.96) VS(3422.42) NS(-337.69) EW(-3405.88)
#84 MD(9090.00) Inc(89.6) Azm(268.2) TVD(5730.46) VS(3517.21) NS(-339.93) EW(-3500.85)
#85 MD(9185.00) Inc(89.6) Azm(267.4) TVD(5731.12) VS(3612.09) NS(-343.58) EW(-3595.77)
#86 MD(9280.00) Inc(89.8) Azm(267.5) TVD(5731.62) VS(3706.99) NS(-347.80) EW(-3690.68)

