



# MATRIX J-29HN

MD  
5":100'

**Company:** Bayswater Exploration & Production, LLC  
**Well Name:** Matrix J-29HN  
**API:** 05-123-40701-00  
**Rig Id:** Frontier 8  
**State:** CO  
**County/Parish:** Weld  
**Country:** United States  
**Survey Company:** Ensign Directional Services  
**Job number:**  
**DIR. DRILLER DAY** Jaime Sheets  
**DIR. DRILLER NIGHT** Kody Woods  
**LWD/MWD DAYS** Matt Brokaw  
**LWD/MWD NIGHTS** Tyler Teague

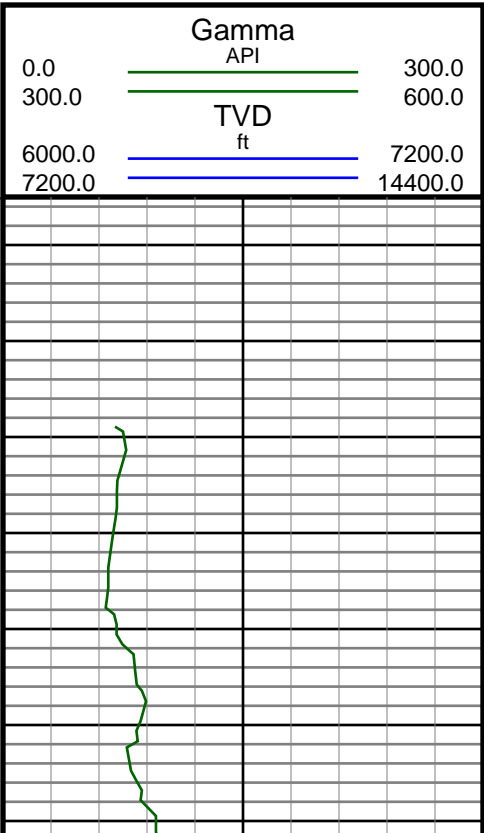
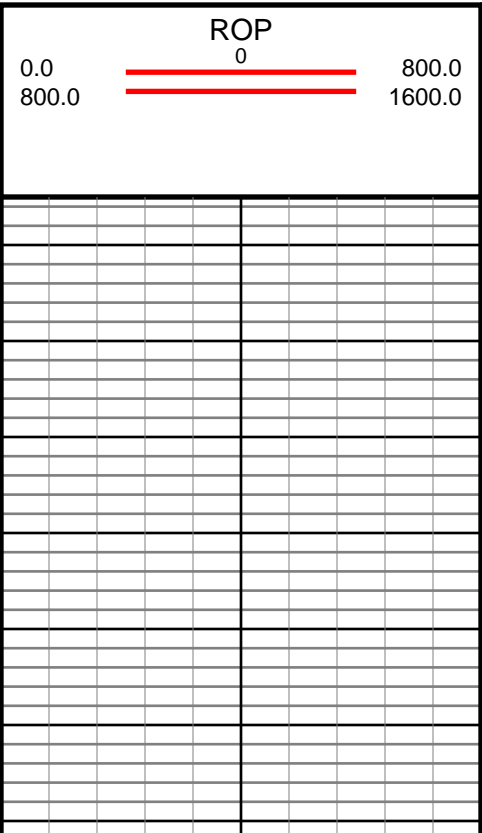
**Log measurements:** Gamma  
**Depth measured from:** Rig Floor  
**Maximum temperature:**

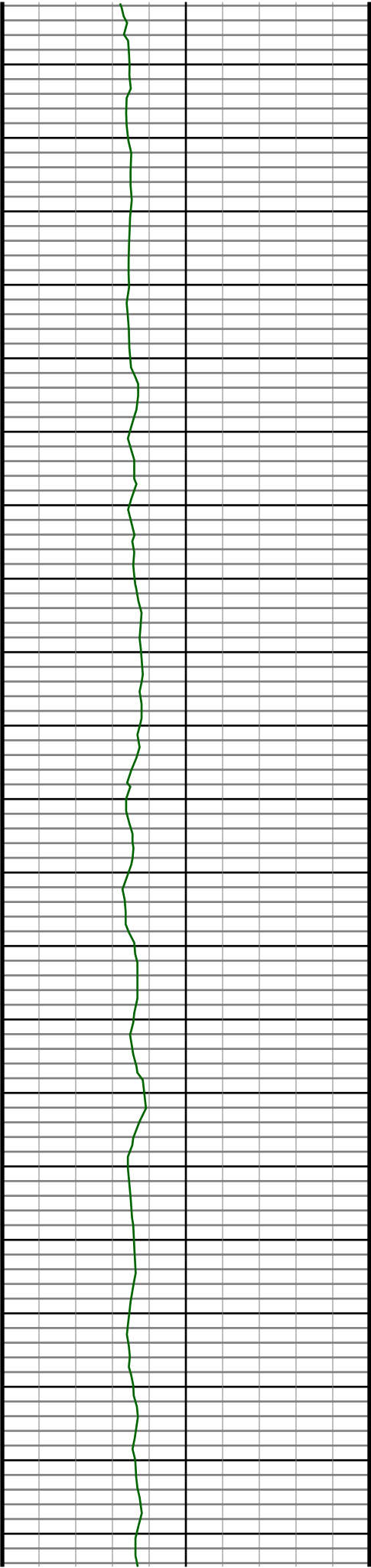
**Depth** **Date**  
**Start:** 7513 ft 3/6/2015  
**End:** 11545 ft 3/8/2015

<b>Casing</b>	<b>Depth</b>	<b>Size</b>	<b>Mud Type:</b>	<b>Elevations</b>
<b>Surface:</b>	747	9.63	<b>Density:</b>	<b>KB:</b> 4730.5
<b>Intermediate:</b>	7505	7	<b>Viscosity:</b>	<b>GL:</b> 4708
			<b>Rm:</b>	<b>DF:</b> 4730.5
			<b>Rmf:</b>	
			<b>Rmc:</b>	

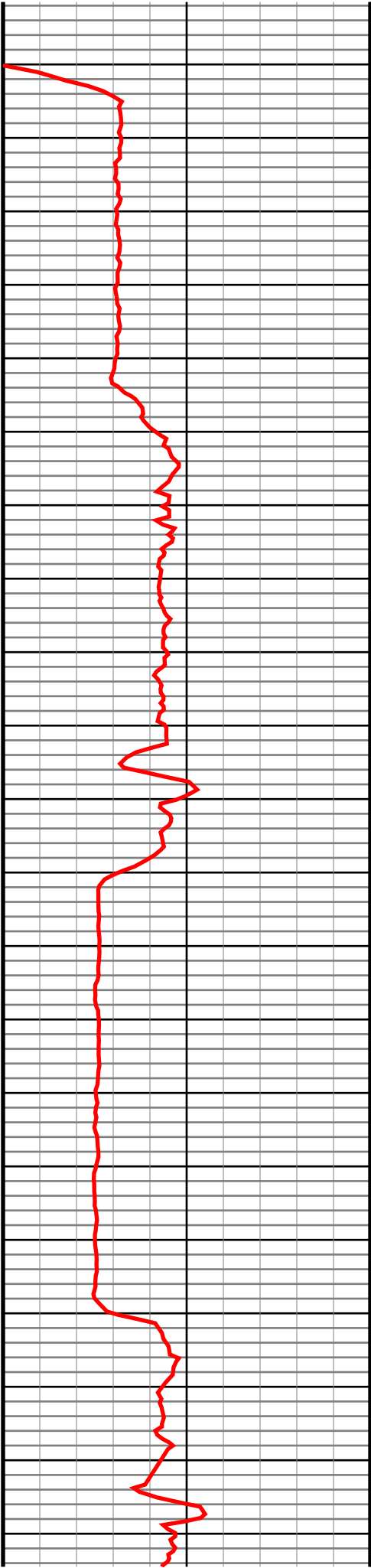
Run	Bit Size	Gamma	Offsets	Survey	Start	End	Start	End	Dates
1	8.75	51.21	46.21	760	6715	7513	1/8/2015	1/11/2015	
2	8.75	51.35	46.35	6715	7513	1/11/2015	1/11/2015	1/12/2015	
3	6.125	59.94	54.94	7513	11545	3/6/2015	3/8/2015		
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Ensign Directional Services 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.



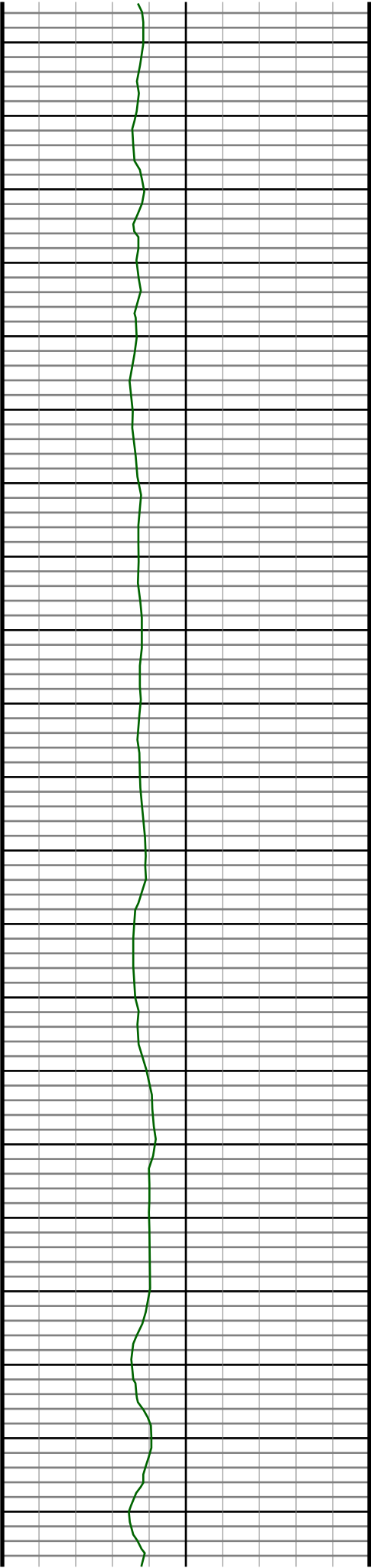


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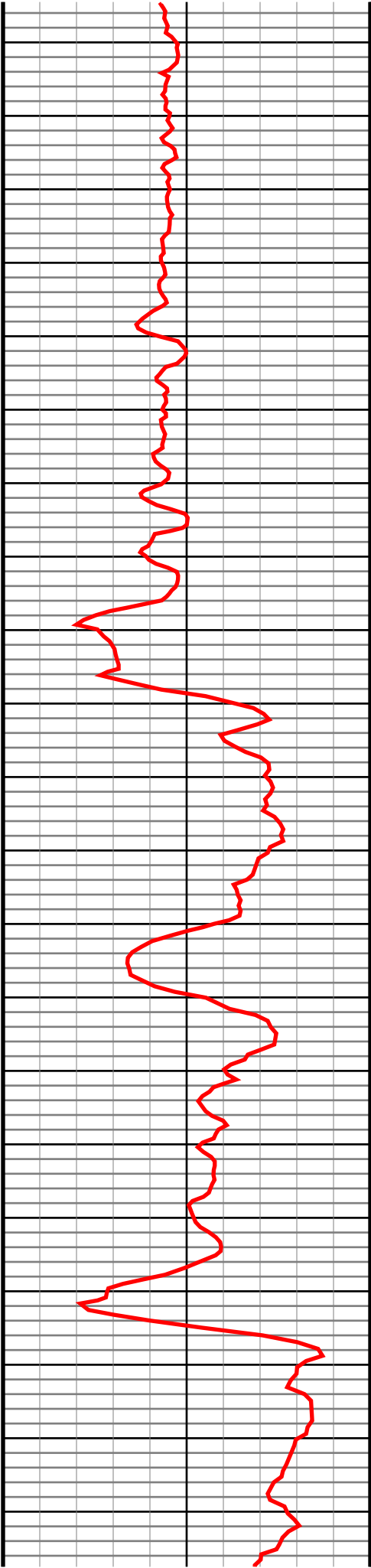


#9 MD(827.00) Inc(0.9) Azm(239.9) TVD(826.99)  
VS(2.18) NS(2.30) EW(-2.09) TEMP(0.0)

#10 MD(922.00) Inc(0.8) Azm(231.1) TVD(921.98)  
VS(1.32) NS(1.51) EW(-3.25) TEMP(0.0)

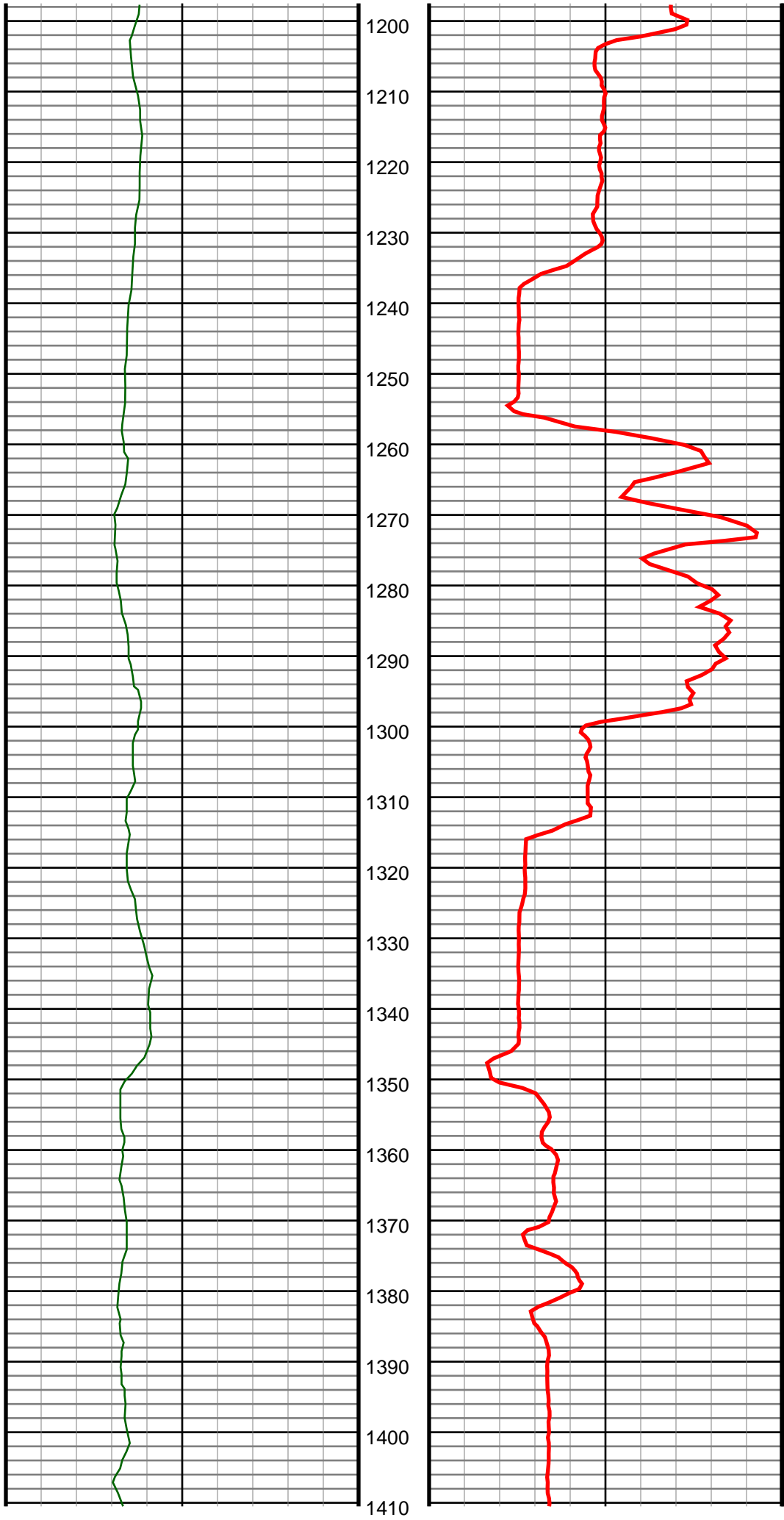


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#11 MD(1018.00) Inc(1.1) Azm(230.7) TVD(1017.96)  
VS(0.25) NS(0.50) EW(-4.48) TEMP(0.0)

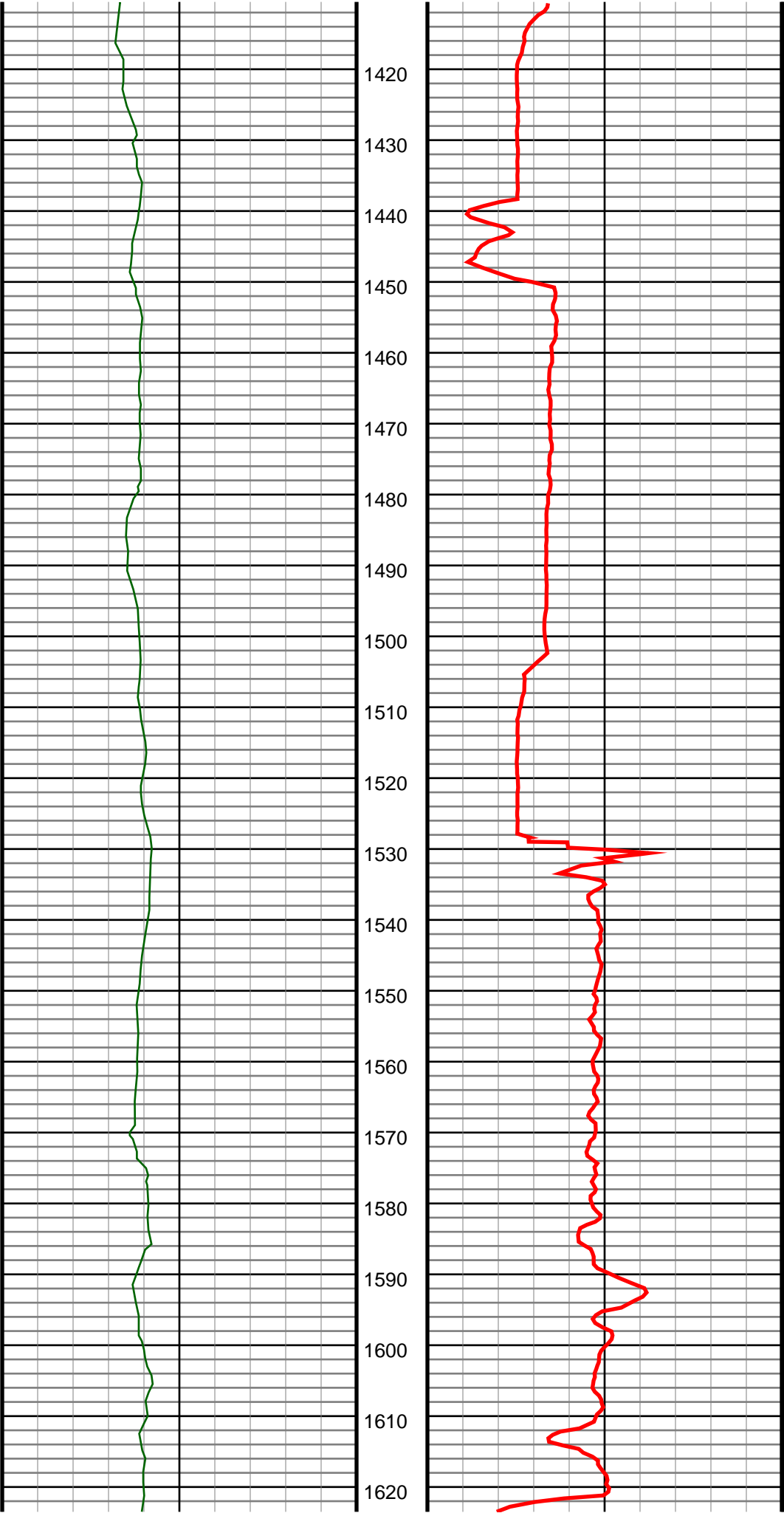
#12 MD(1113.00) Inc(0.9) Azm(125.6) TVD(1112.95)  
VS(-0.76) NS(-0.51) EW(-4.58) TEMP(0.0)



#13 MD(1205.00) Inc(0.9) Azm(122.4) TVD(1204.94)  
VS(-1.50) NS(-1.32) EW(-3.38) TEMP(0.0)

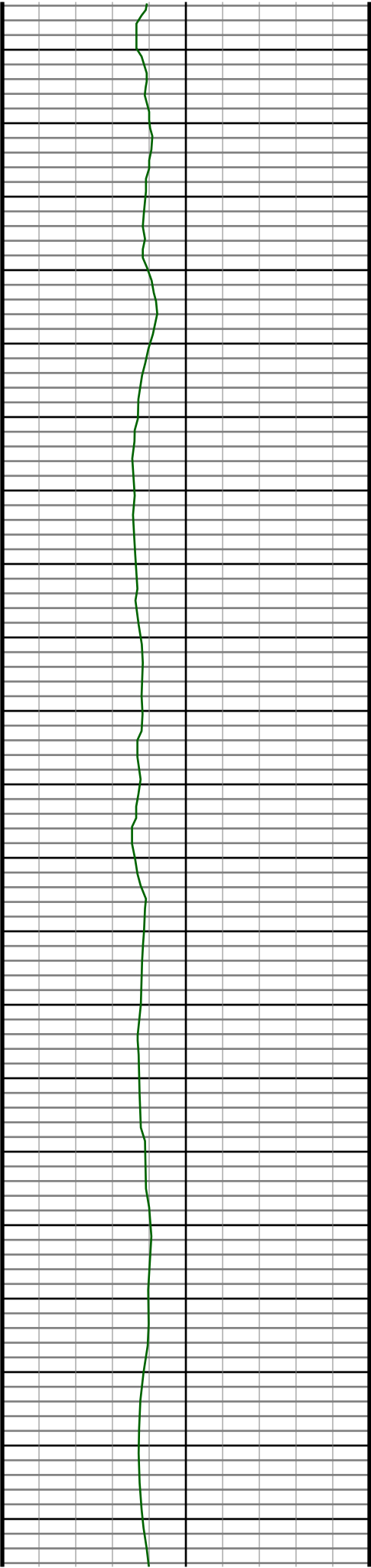
#14 MD(1297.00) Inc(0.9) Azm(105.0) TVD(1296.93)  
VS(-2.00) NS(-1.89) EW(-2.08) TEMP(0.0)

#15 MD(1389.00) Inc(0.9) Azm(90.3) TVD(1388.92)  
VS(-2.12) NS(-2.08) EW(-0.66) TEMP(0.0)

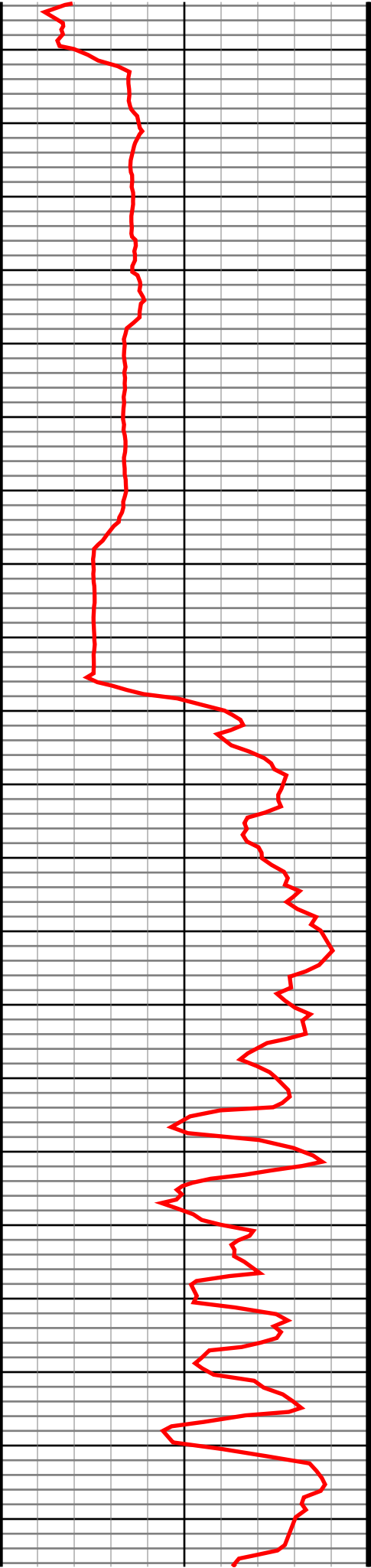


#16 MD(1481.00) Inc(0.7) Azm(141.6) TVD(1480.91)  
VS(-2.50) NS(-2.53) EW(0.42) TEMP(0.0)

#17 MD(1573.00) Inc(0.7) Azm(160.8) TVD(1572.91)  
VS(-3.44) NS(-3.50) EW(0.95) TEMP(0.0)

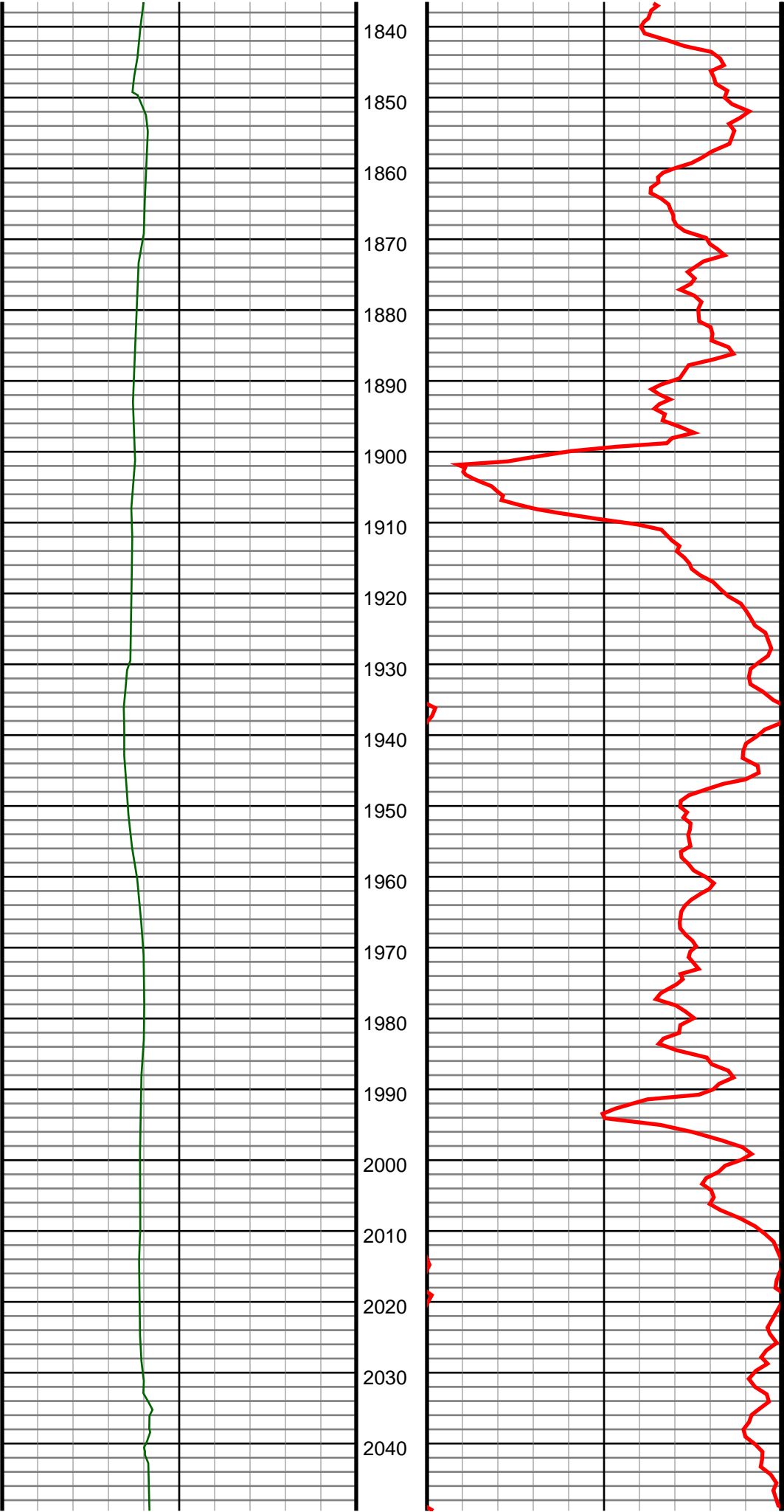


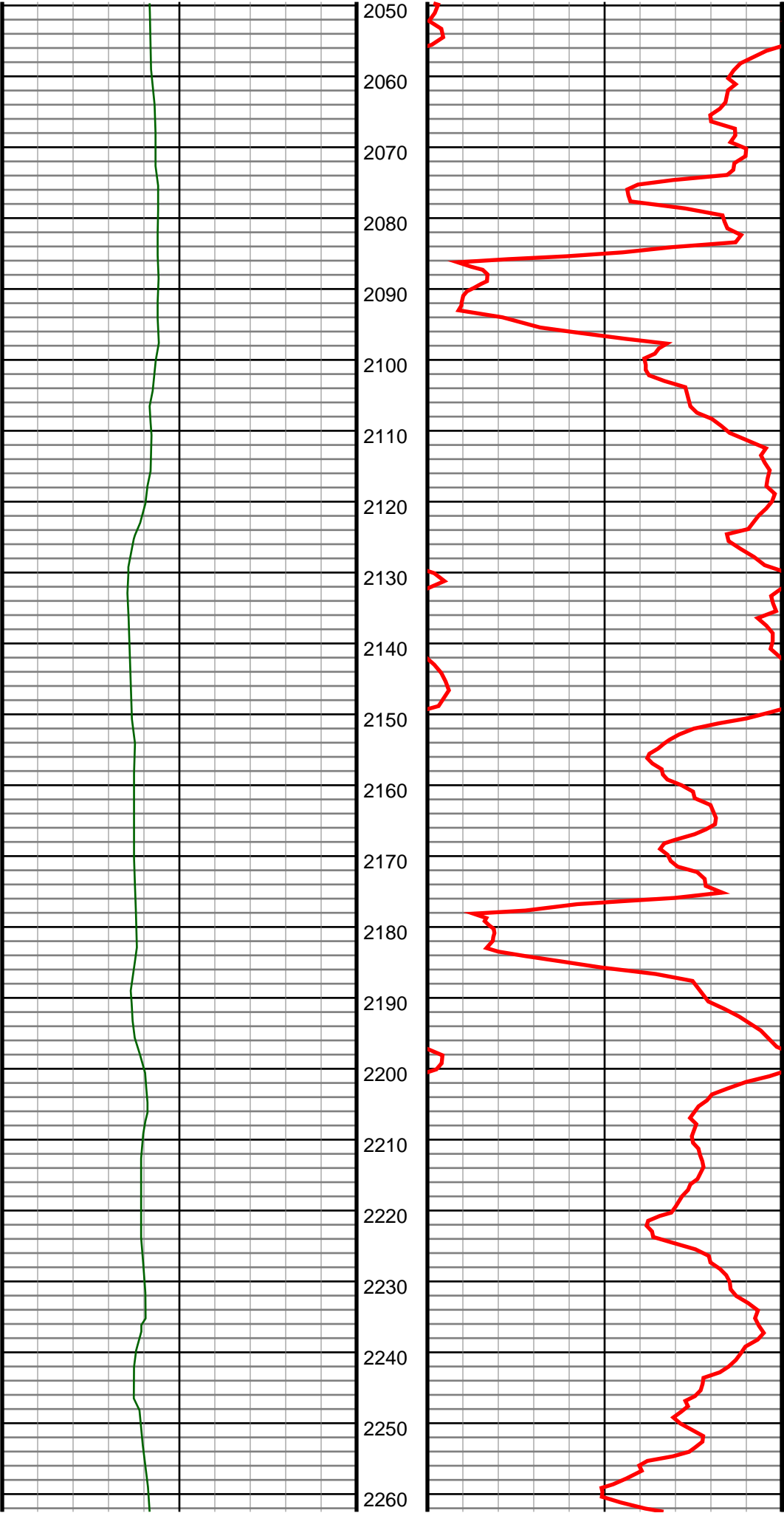
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#18 MD(1665.00) Inc(0.7) Azm(331.1) TVD(1664.90)  
VS(-3.48) NS(-3.54) EW(0.86) TEMP(0.0)

#19 MD(1757.00) Inc(0.9) Azm(337.8) TVD(1756.90)  
VS(-2.35) NS(-2.38) EW(0.32) TEMP(0.0)

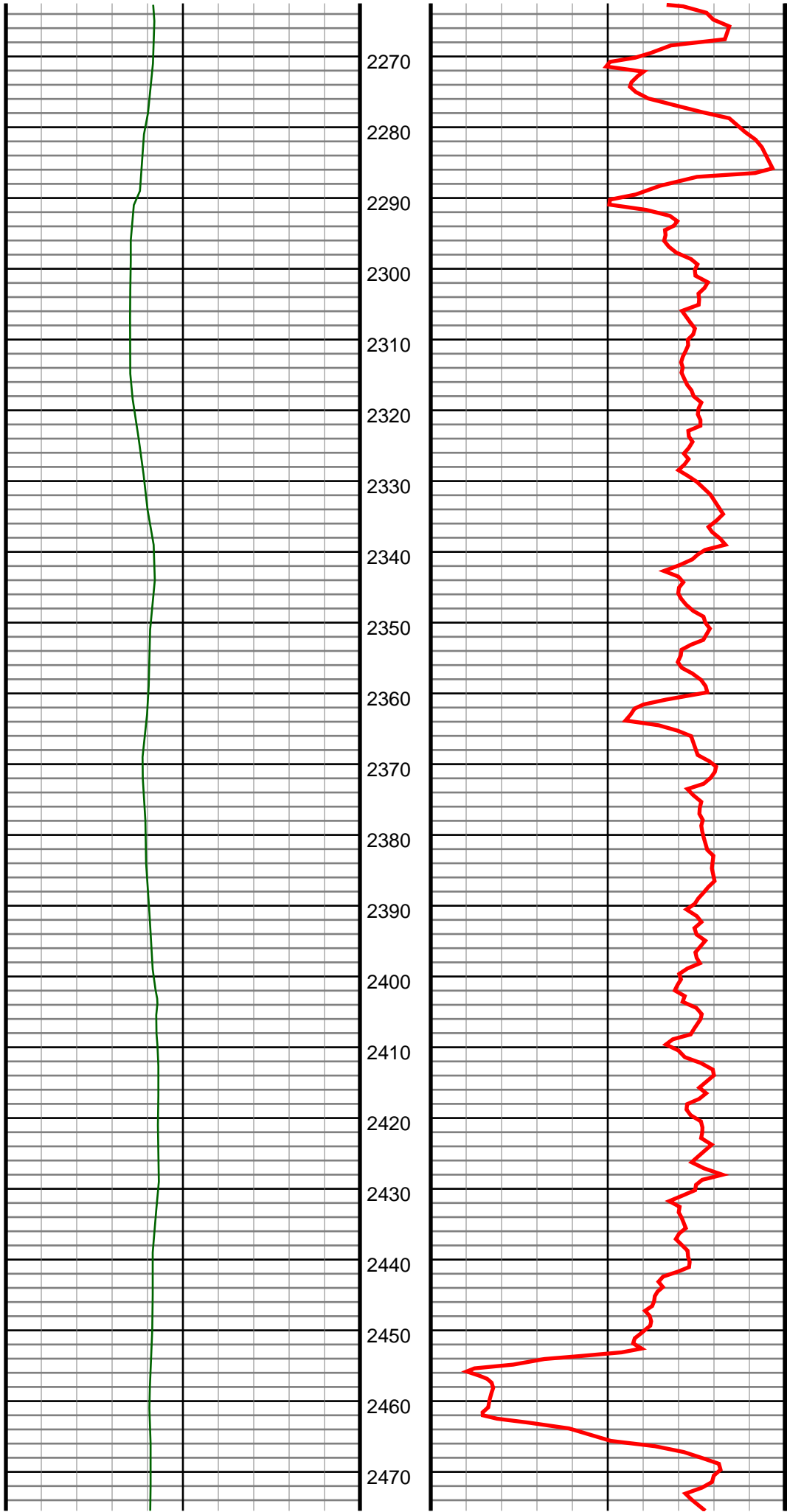




#23 MD(2126.00) Inc(1.1) Azm(26.6) TVD(2125.86)  
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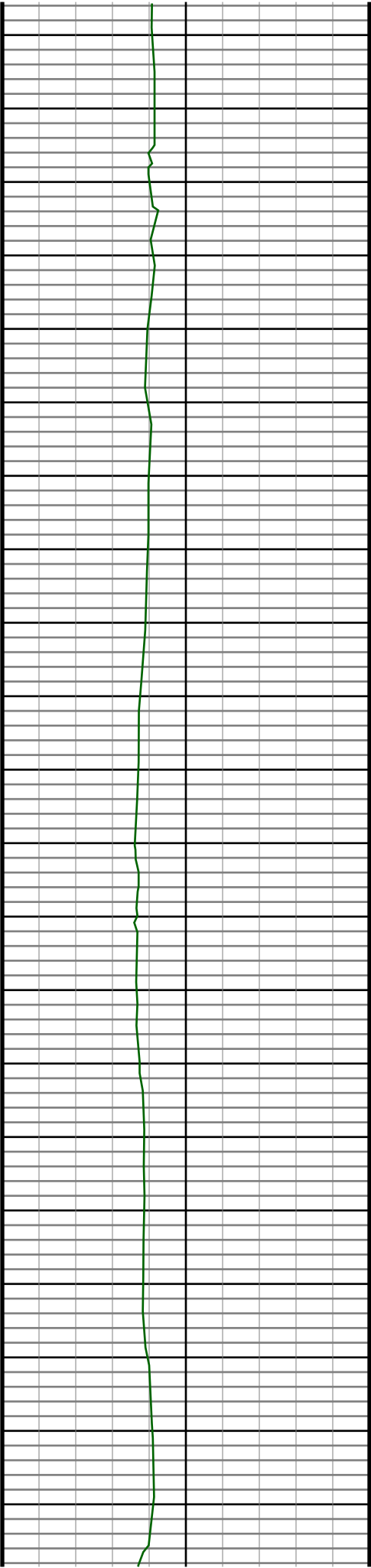
#24 MD(2218.00) Inc(0.1) Azm(178.2) TVD(2217.85)  
VS(0.25) NS(0.38) EW(-2.26) TEMP(0.0)



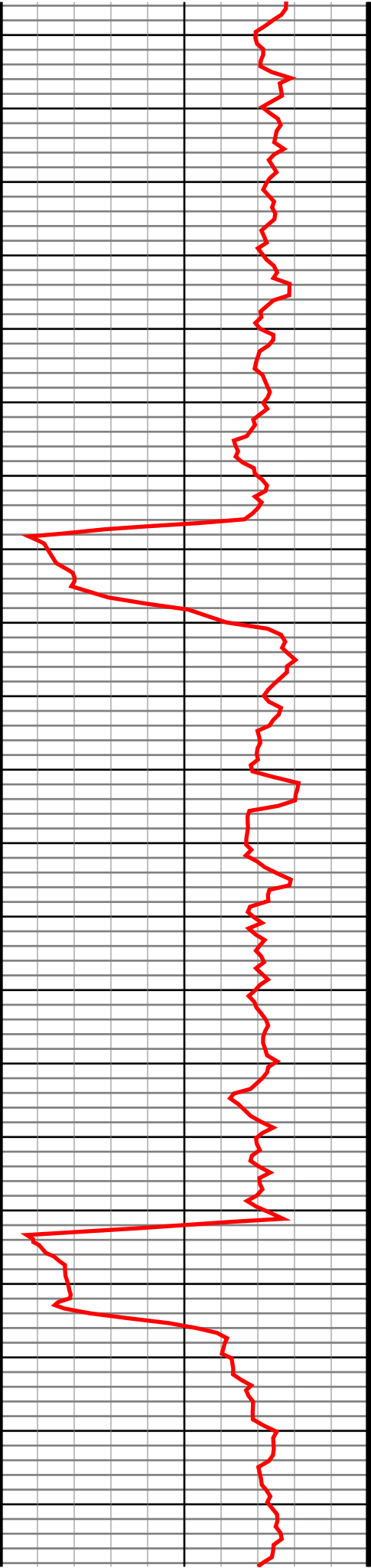


#25 MD(2310.00) Inc(0.8) Azm(83.6) TVD(2309.85)  
VS(0.28) NS(0.37) EW(-1.62) TEMP(0.0)

#26 MD(2402.00) Inc(1.0) Azm(101.0) TVD(2401.84)  
VS(0.28) NS(0.29) EW(-0.19) TEMP(0.0)



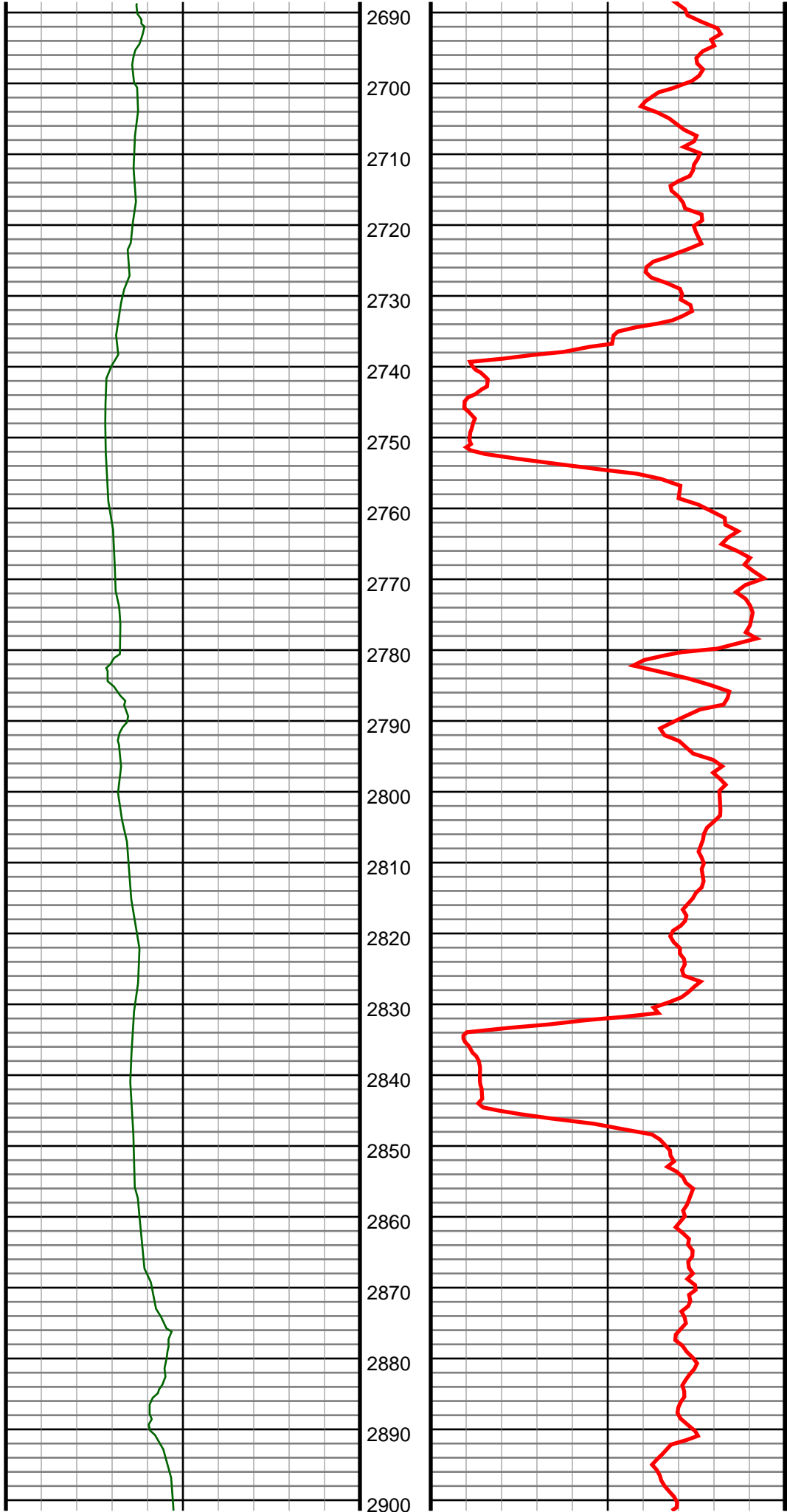
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#27 MD(2494.00) Inc(1.8) Azm(119.8) TVD(2493.81)  
VS(-0.48) NS(-0.58) EW(1.85) TEMP(0.0)

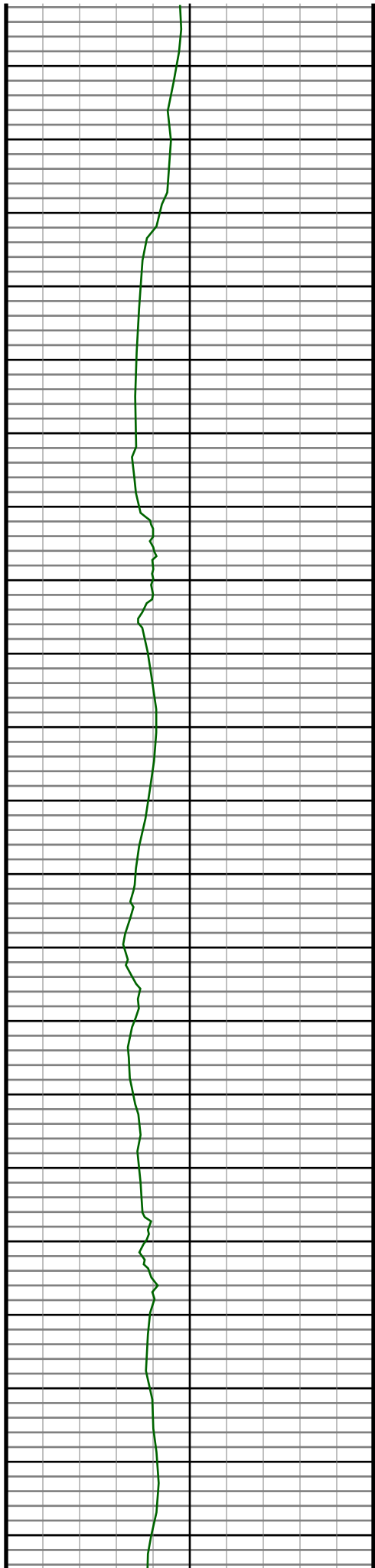
#28 MD(2590.00) Inc(2.6) Azm(144.9) TVD(2589.74)  
VS(-2.86) NS(-3.11) EW(4.41) TEMP(0.0)

#29 MD(2685.00) Inc(3.6) Azm(141.8) TVD(2684.60)  
VS(-6.79) NS(-7.22) EW(7.49) TEMP(0.0)

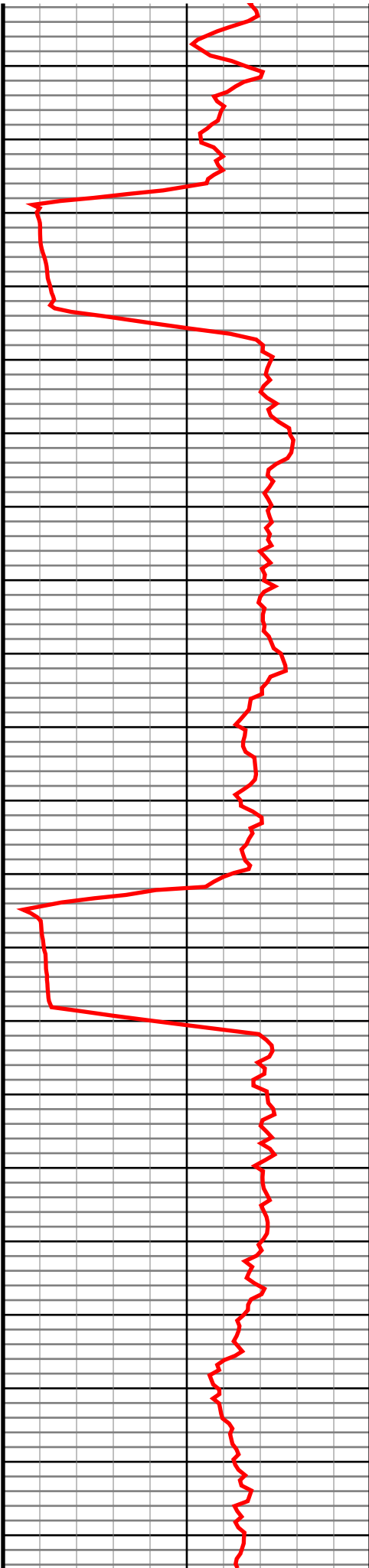


#30 MD(2780.00) Inc(4.6) Azm(163.7) TVD(2779.36)  
VS(-12.62) NS(-13.22) EW(10.41) TEMP(0.0)

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VS(-20.81) NS(-21.56) EW(12.87) TEMP(0.0)

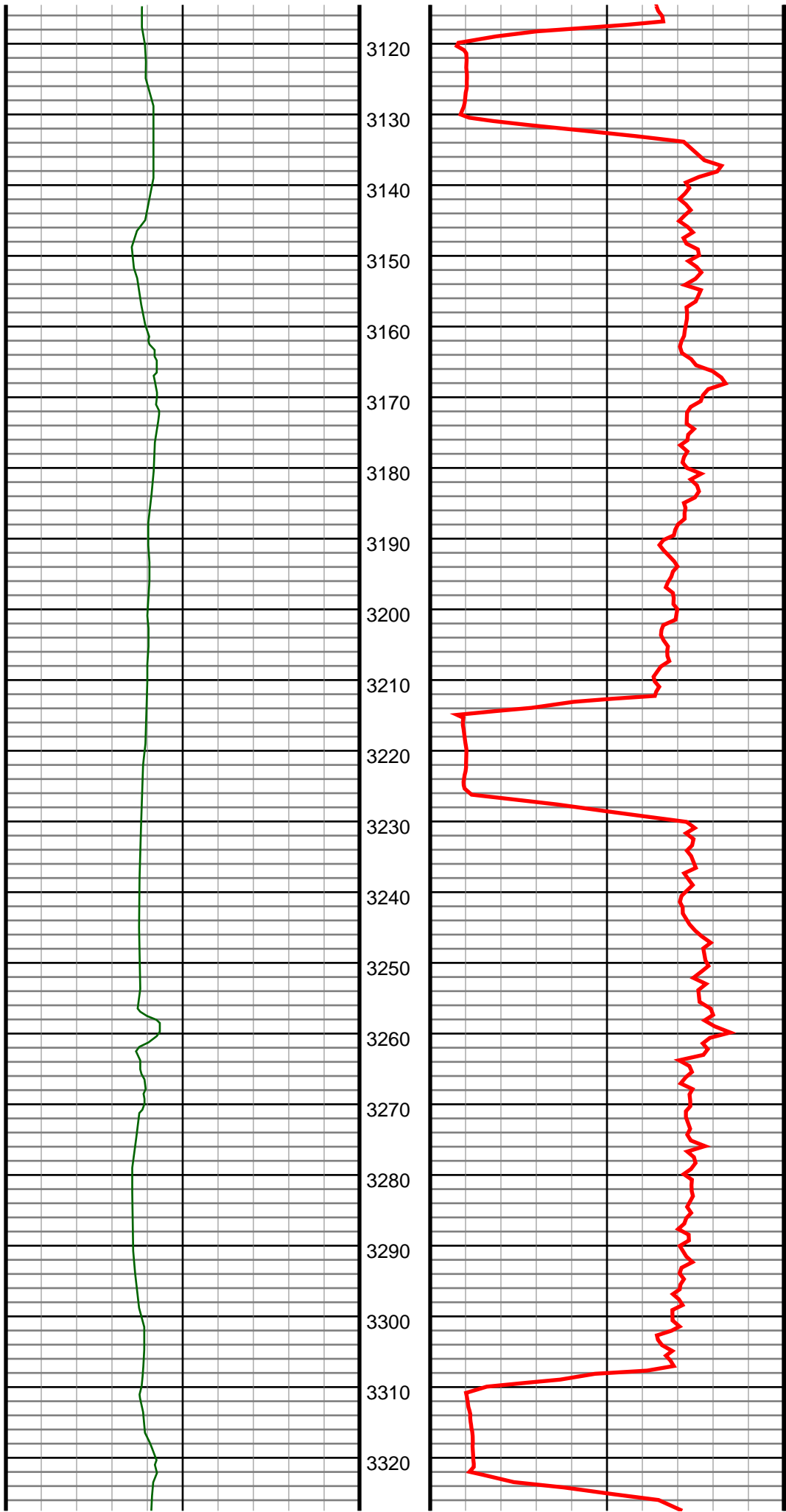


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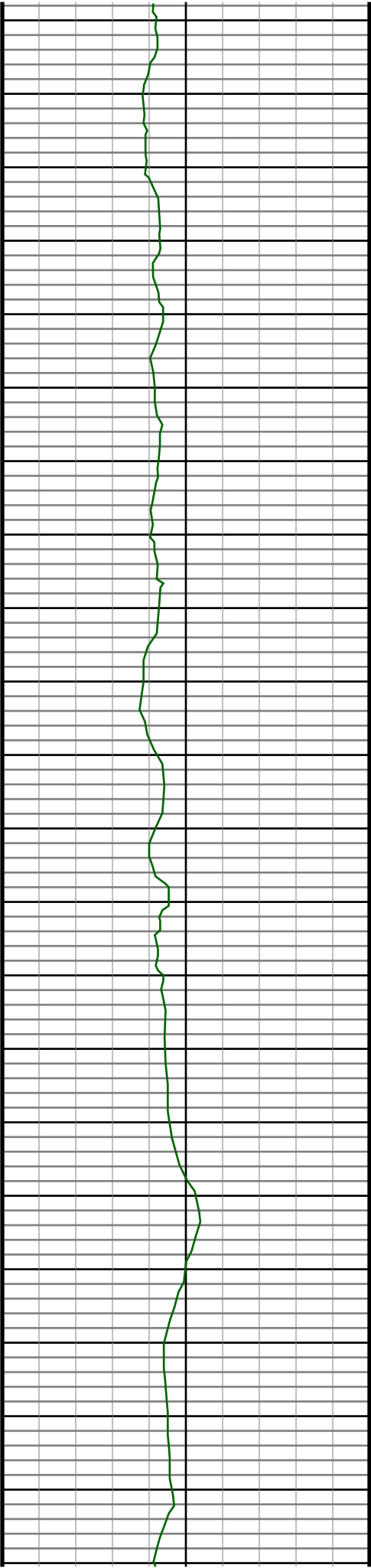
#32 MD(2971.00) Inc(7.6) Azm(158.6) TVD(2969.29)  
VS(-31.22) NS(-32.20) EW(16.60) TEMP(0.0)

#33 MD(3066.00) Inc(9.3) Azm(157.8) TVD(3063.26)  
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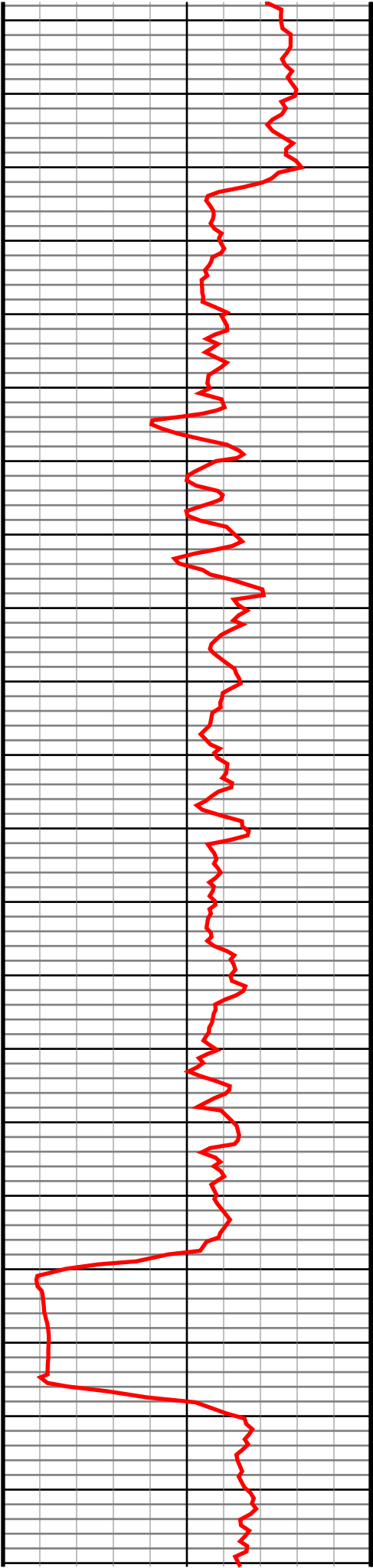


#34 MD(3161.00) Inc(9.1) Azm(146.9) TVD(3157.04)  
VS(-56.86) NS(-58.56) EW(28.79) TEMP(0.0)

#35 MD(3256.00) Inc(8.7) Azm(153.5) TVD(3250.90)  
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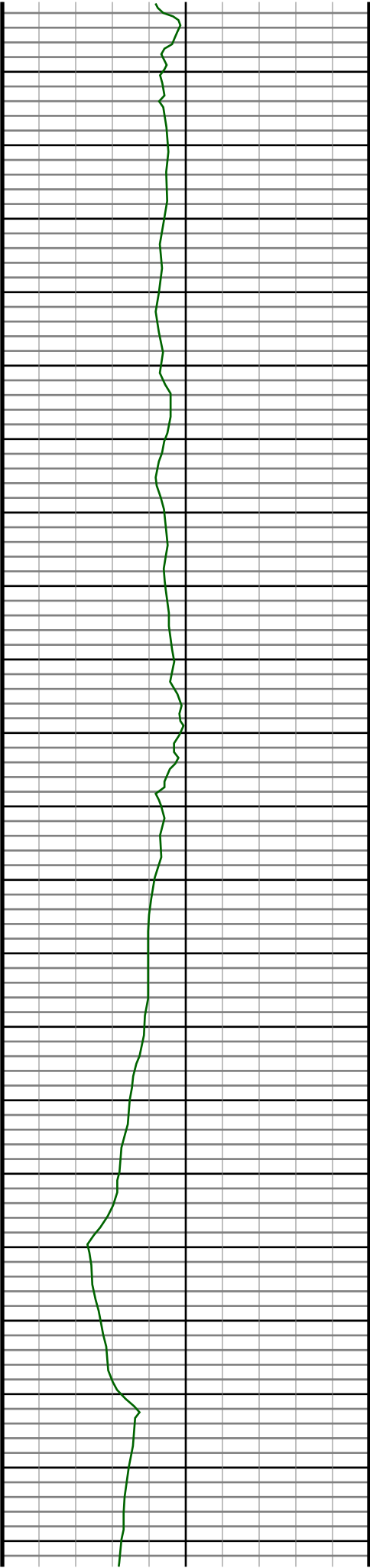


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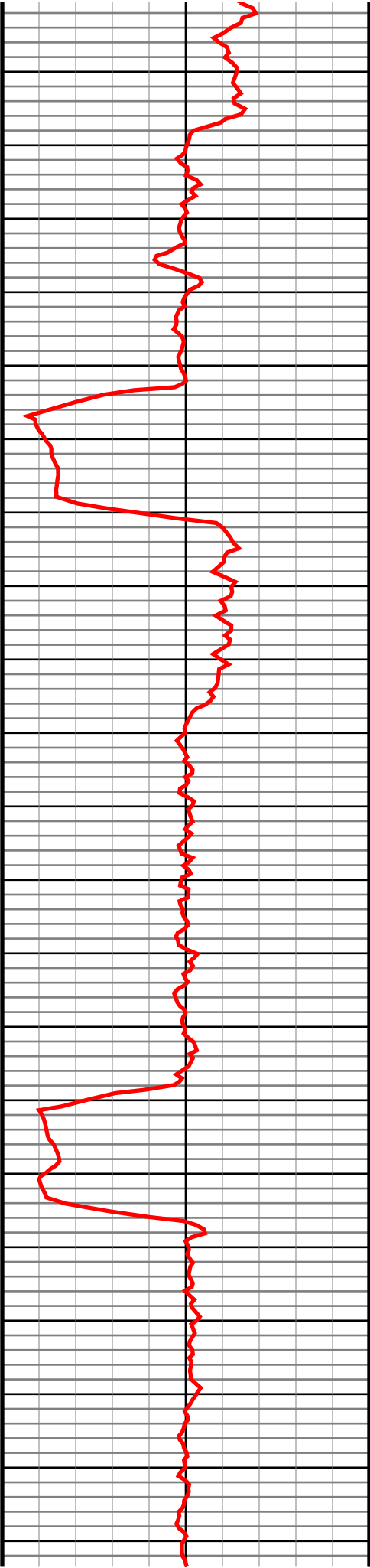


#36 MD(3351.00) Inc(9.7) Azm(151.1) TVD(3344.68)  
VS(-82.18) NS(-84.72) EW(43.18) TEMP(0.0)

#37 MD(3446.00) Inc(8.4) Azm(141.2) TVD(3438.50)  
VS(-94.12) NS(-97.13) EW(51.39) TEMP(0.0)



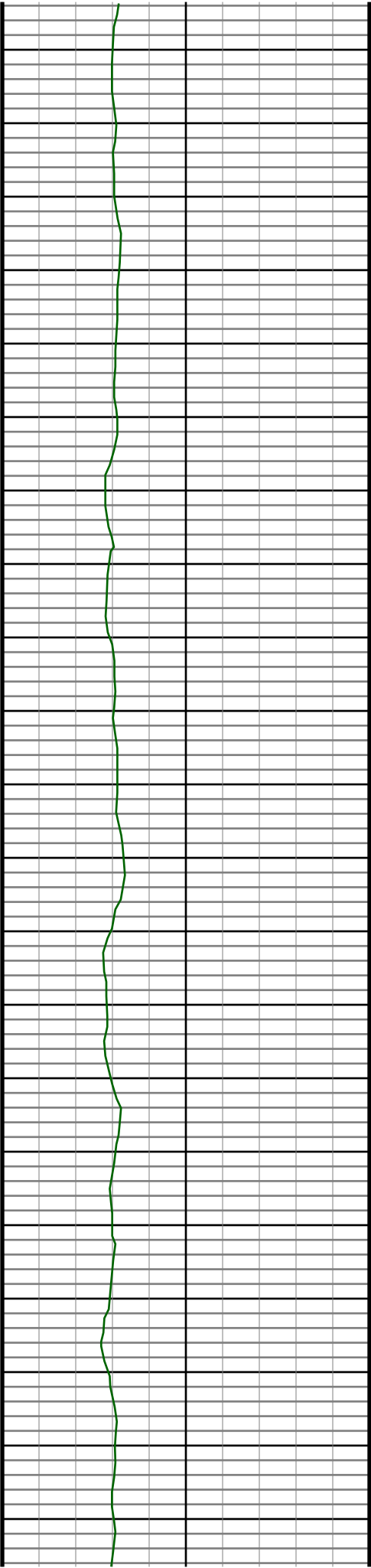
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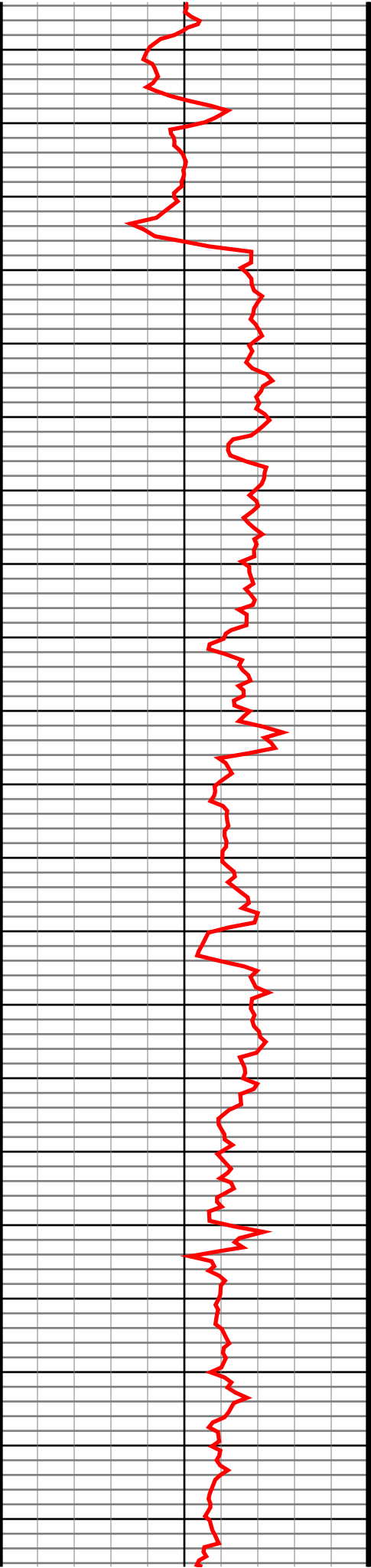
#38 MD(3542.00) Inc(8.8) Azm(147.9) TVD(3533.42)  
VS(-105.33) NS(-108.82) EW(59.69) TEMP(0.0)

#39 MD(3637.00) Inc(9.1) Azm(152.7) TVD(3627.27)  
VS(-117.73) NS(-121.65) EW(67.00) TEMP(0.0)

#40 MD(3732.00) Inc(11.2) Azm(158.3) TVD(3720.78)  
VS(-132.58) NS(-136.90) EW(73.85) TEMP(0.0)



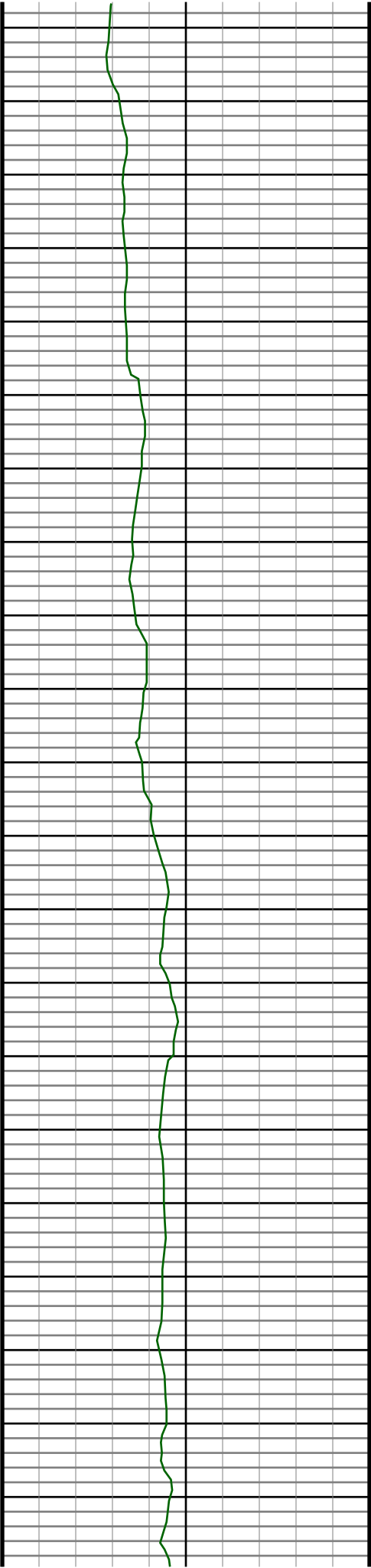
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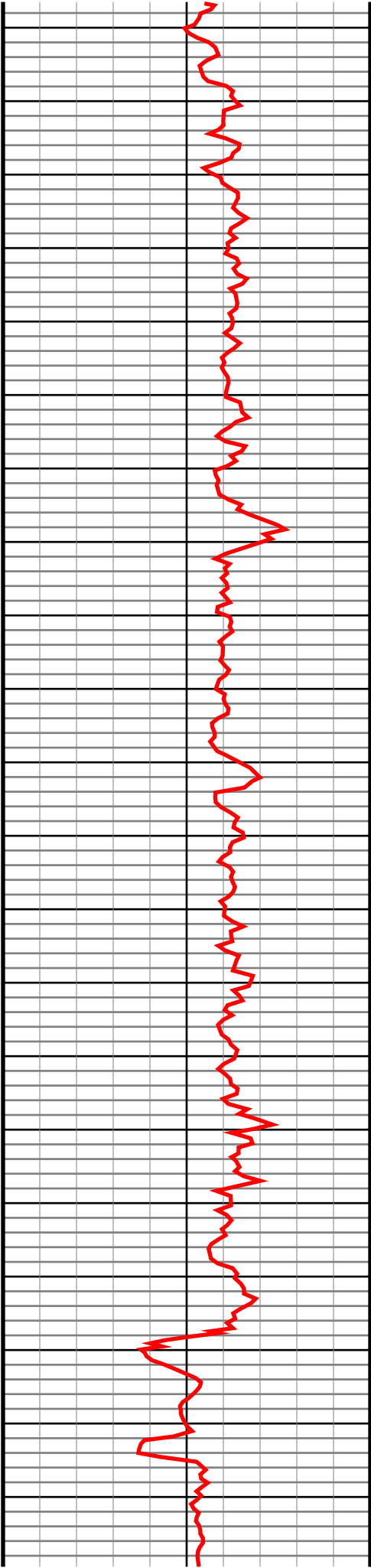
#41 MD(3827.00) Inc(12.0) Azm(157.9) TVD(3813.84)  
VS(-149.88) NS(-154.62) EW(80.98) TEMP(0.0)

#42 MD(3923.00) Inc(12.6) Azm(158.3) TVD(3907.63)  
VS(-168.40) NS(-173.60) EW(88.61) TEMP(0.0)



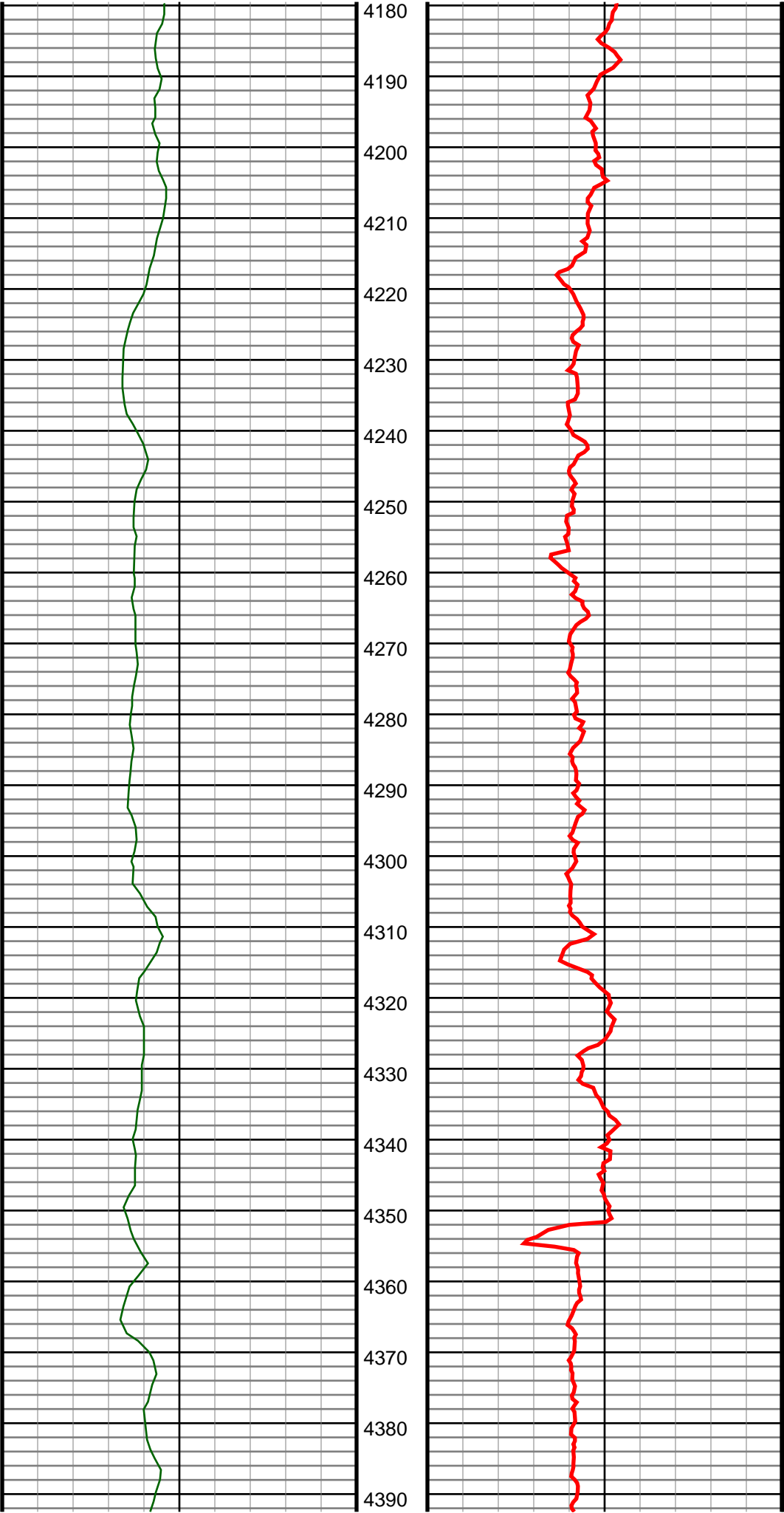


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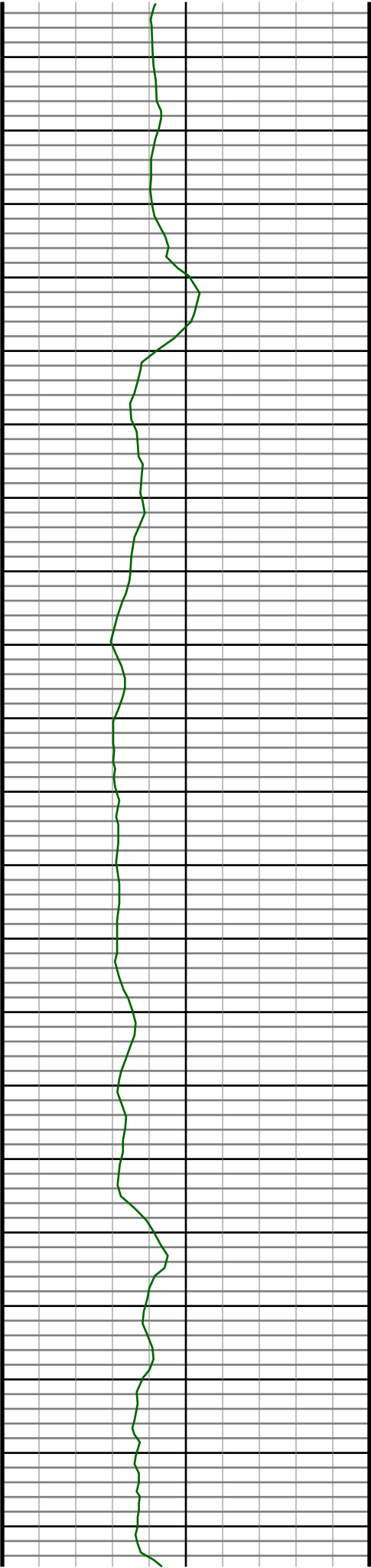
#43 MD(4018.00) Inc(12.5) Azm(156.2) TVD(4000.36)  
VS(-186.96) NS(-192.63) EW(96.59) TEMP(0.0)

#44 MD(4113.00) Inc(11.5) Azm(153.9) TVD(4093.29)  
VS(-204.38) NS(-210.54) EW(104.90) TEMP(0.0)

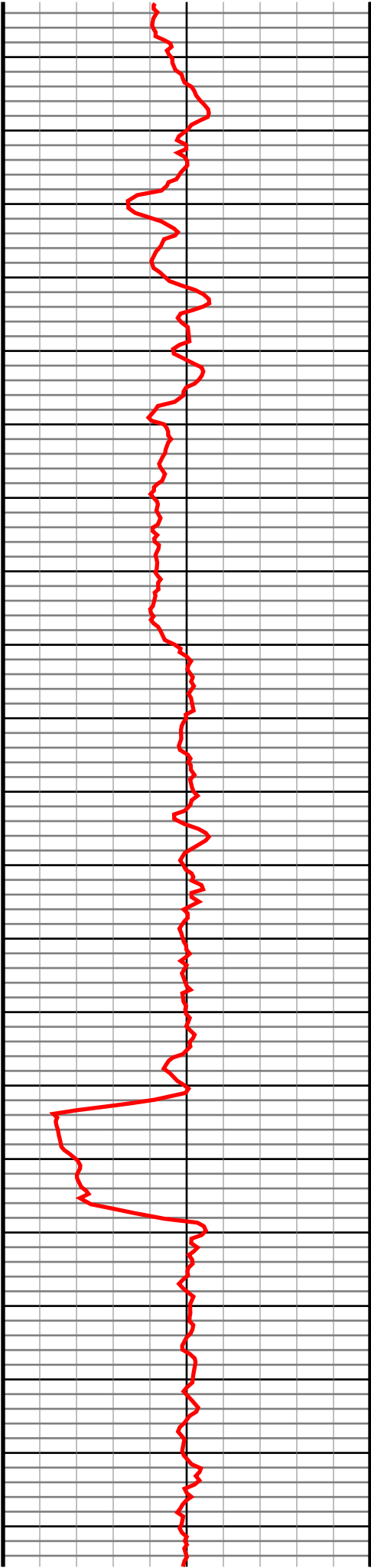


#45 MD(4208.00) Inc(10.0) Azm(149.2) TVD(4186.62)  
VS(-219.48) NS(-226.13) EW(113.29) TEMP(0.0)

#46 MD(4303.00) Inc(9.3) Azm(150.0) TVD(4280.27)  
VS(-232.74) NS(-239.87) EW(121.35) TEMP(0.0)



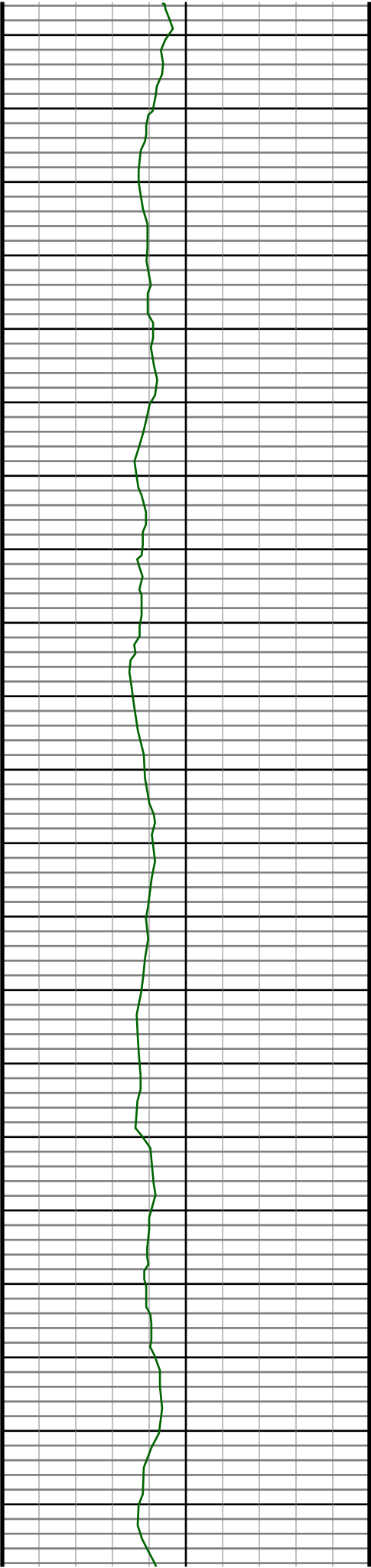
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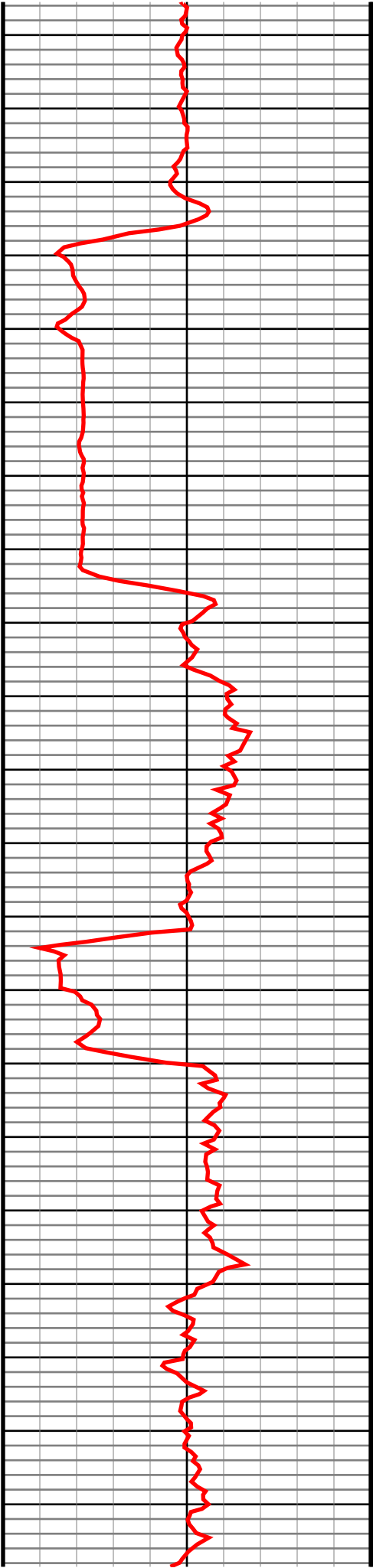
#47 MD(4398.00) Inc(9.3) Azm(146.2) TVD(4374.03)  
VS(-245.30) NS(-252.89) EW(129.46) TEMP(0.0)

#48 MD(4494.00) Inc(8.8) Azm(146.0) TVD(4468.83)  
VS(-257.34) NS(-265.43) EW(137.88) TEMP(0.0)

#49 MD(4589.00) Inc(9.8) Azm(150.4) TVD(4562.58)  
VS(-269.93) NS(-278.48) EW(145.94) TEMP(0.0)

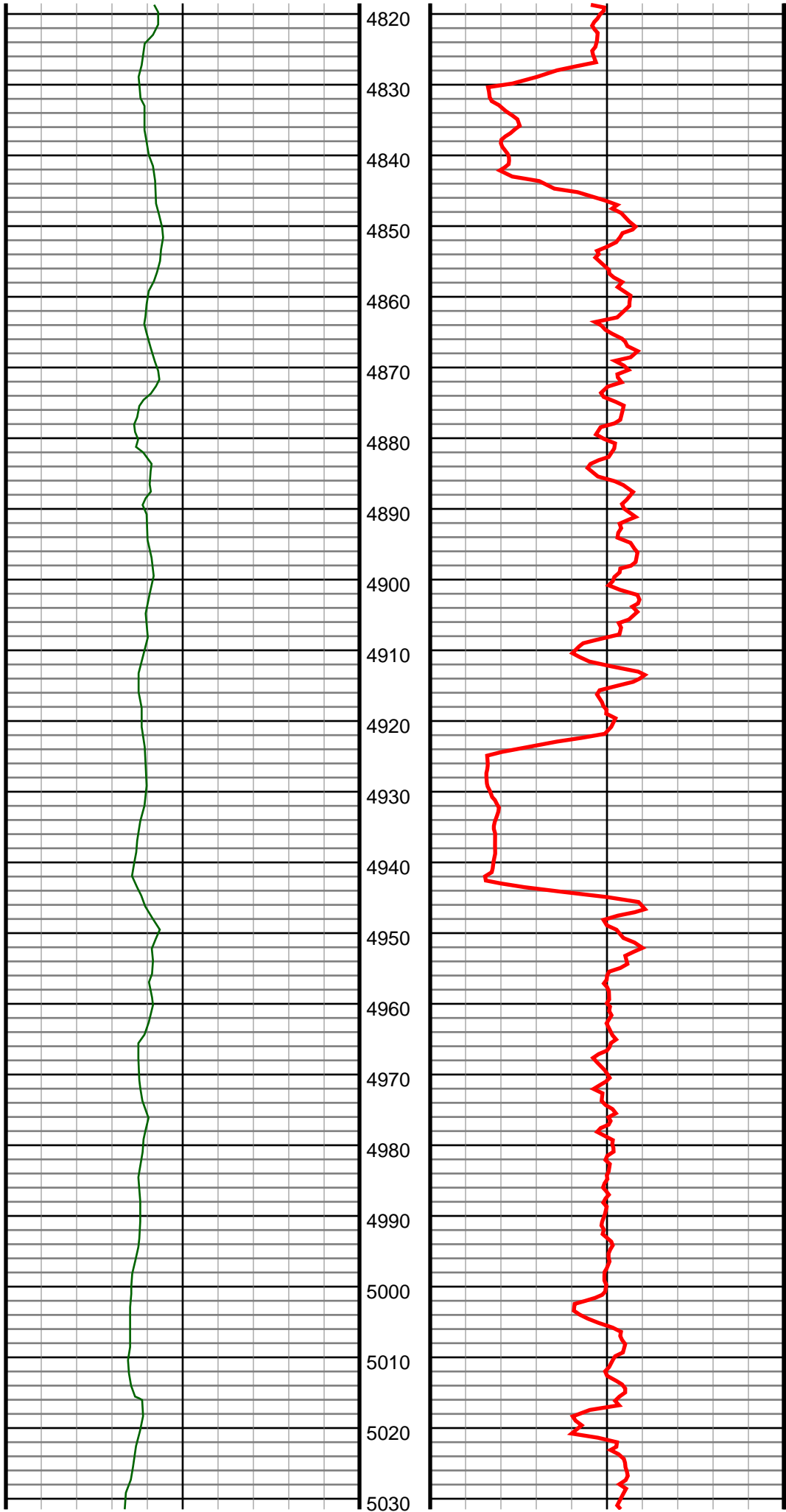


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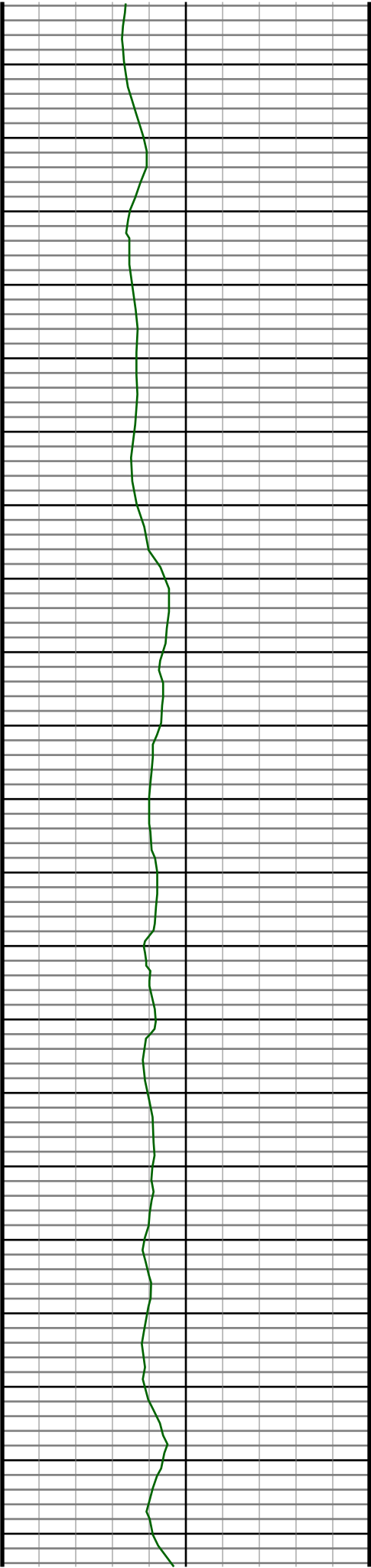
#50 MD(4684.00) Inc(9.6) Azm(150.4) TVD(4656.22)  
VS(-283.39) NS(-292.40) EW(153.85) TEMP(0.0)

#51 MD(4779.00) Inc(9.4) Azm(151.8) TVD(4749.92)  
VS(-296.67) NS(-306.13) EW(161.43) TEMP(0.0)

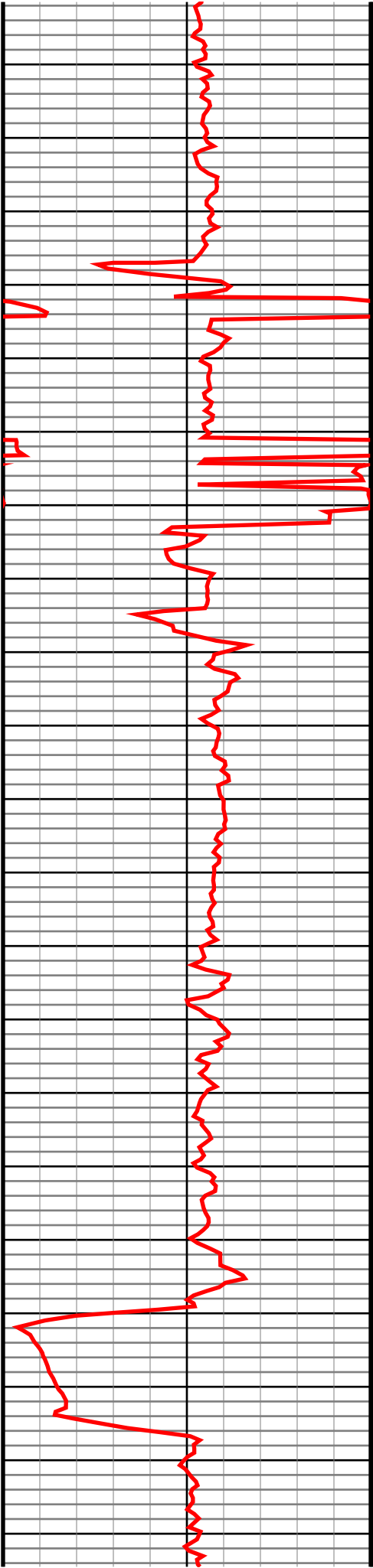


#52 MD(4874.00) Inc(9.2) Azm(150.4) TVD(4843.67)  
VS(-309.67) NS(-319.57) EW(168.84) TEMP(0.0)

#53 MD(4970.00) Inc(10.3) Azm(149.7) TVD(4938.28)  
VS(-323.28) NS(-333.65) EW(176.96) TEMP(0.0)

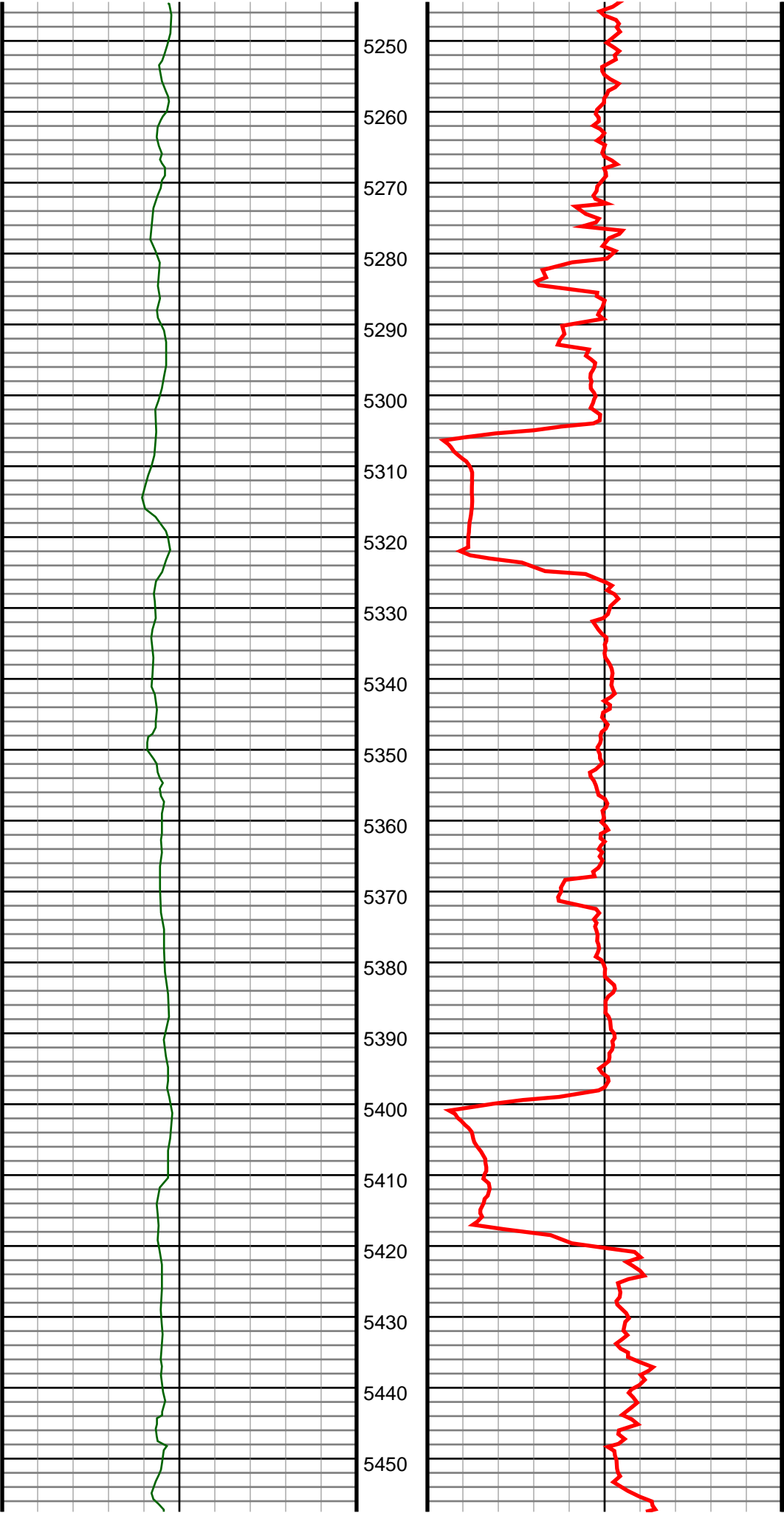


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#54 MD(5065.00) Inc(9.6) Azm(148.6) TVD(5031.85)  
VS(-336.89) NS(-347.74) EW(185.38) TEMP(0.0)

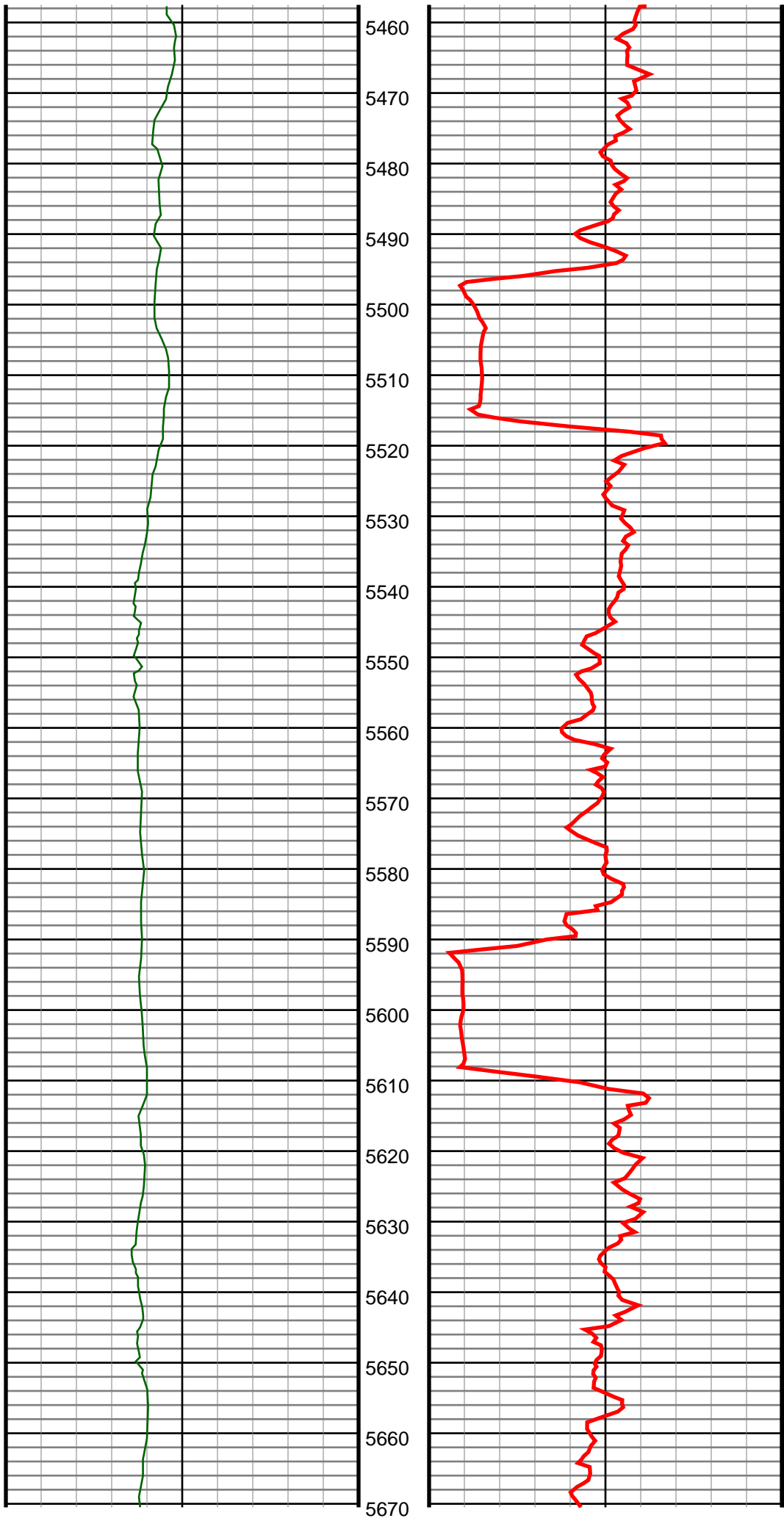
#55 MD(5160.00) Inc(8.0) Azm(145.8) TVD(5125.73)  
VS(-348.66) NS(-359.97) EW(193.22) TEMP(0.0)



#56 MD(5255.00) Inc(7.5) Azm(155.7) TVD(5219.87)  
VS(-359.42) NS(-371.09) EW(199.49) TEMP(0.0)

#57 MD(5351.00) Inc(7.9) Azm(152.0) TVD(5315.01)  
VS(-370.62) NS(-382.63) EW(205.16) TEMP(0.0)

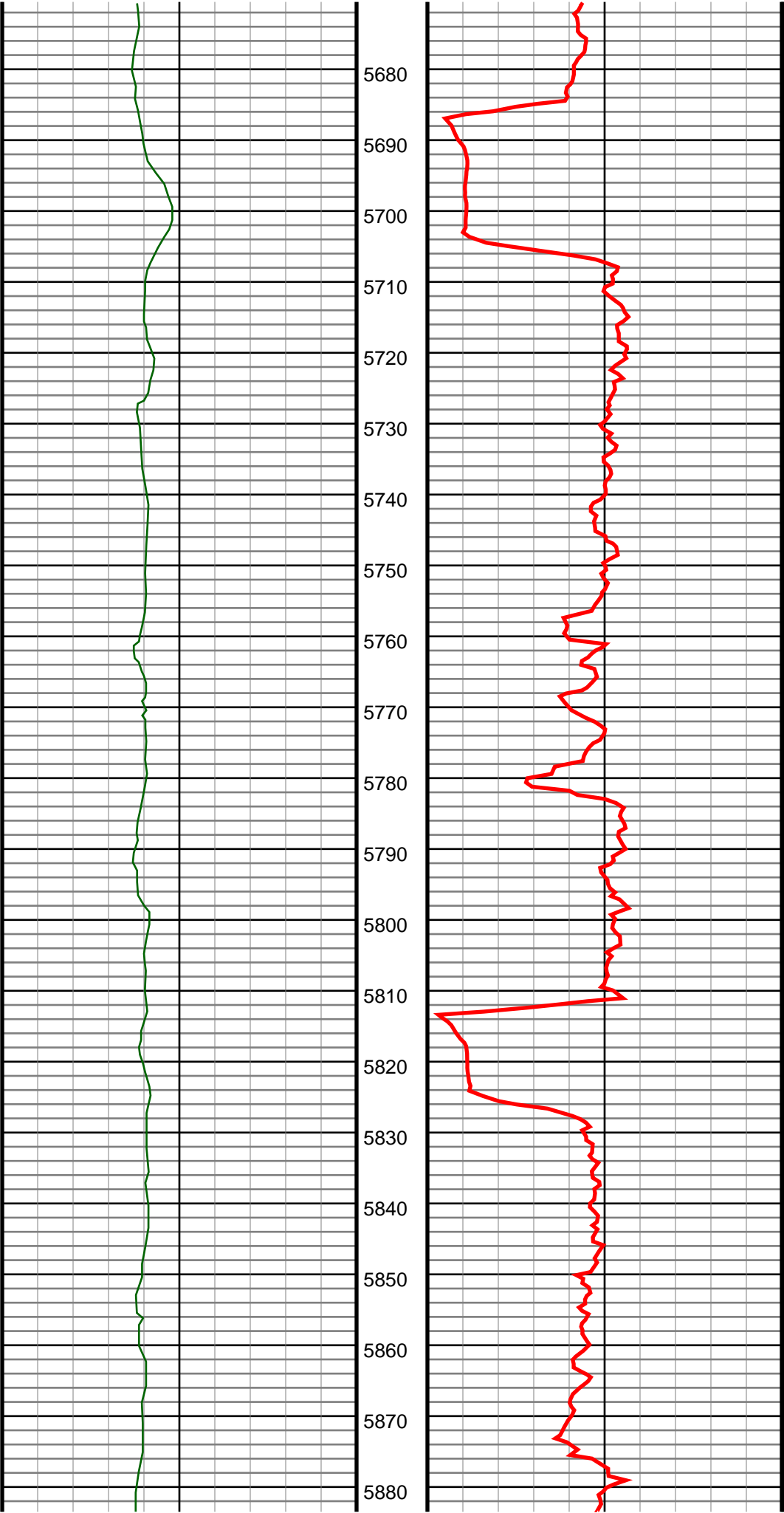
#58 MD(5446.00) Inc(7.9) Azm(150.2) TVD(5409.10)  
VS(-381.68) NS(-394.06) EW(211.47) TEMP(0.0)



#59 MD(5541.00) Inc(8.1) Azm(155.7) TVD(5503.18)  
VS(-393.09) NS(-405.82) EW(217.47) TEMP(0.0)

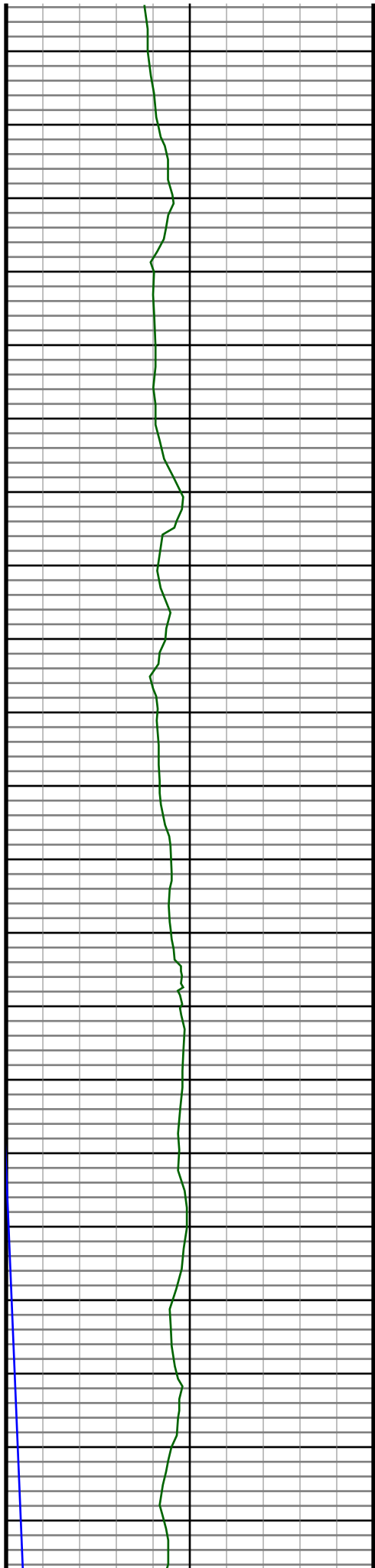
#60 MD(5636.00) Inc(8.0) Azm(158.1) TVD(5597.24)  
VS(-405.02) NS(-418.06) EW(222.69) TEMP(0.0)





#61 MD(5731.00) Inc(8.6) Azm(150.6) TVD(5691.25)  
VS(-416.99) NS(-430.38) EW(228.64) TEMP(0.0)

#62 MD(5826.00) Inc(7.6) Azm(147.2) TVD(5785.30)  
VS(-428.06) NS(-441.85) EW(235.54) TEMP(0.0)



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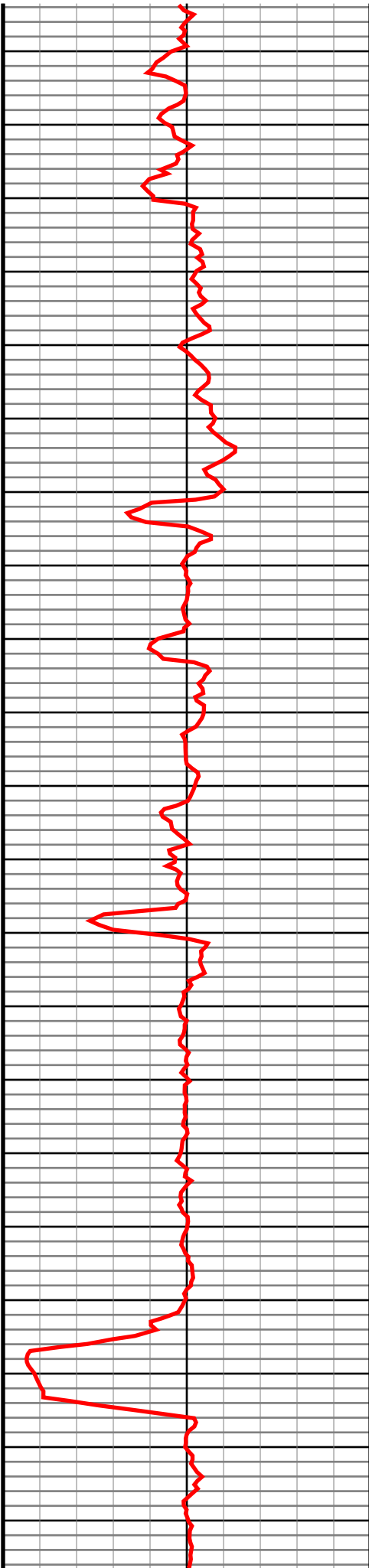
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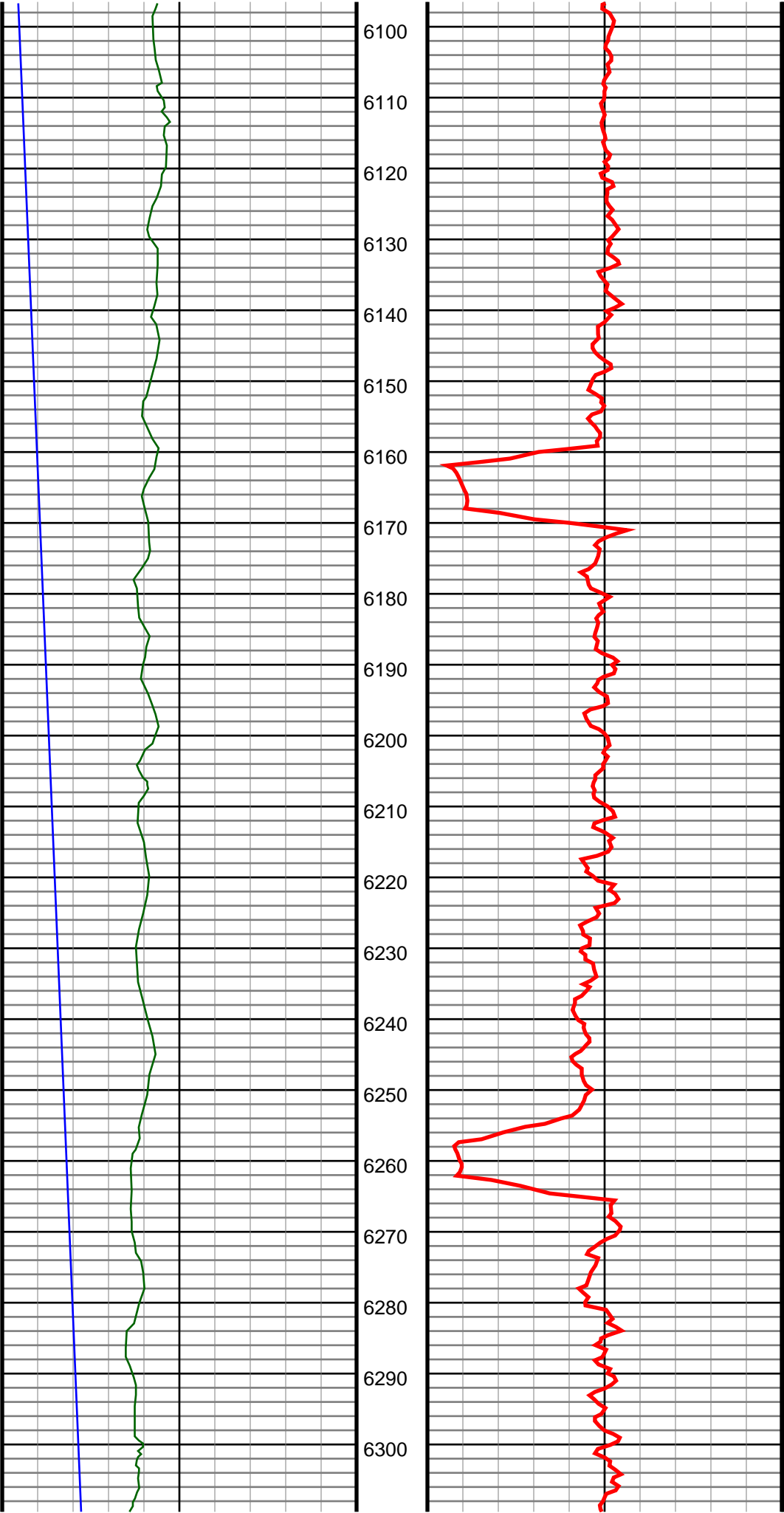
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#63 MD(5921.00) Inc(6.2) Azm(147.2) TVD(5879.61)  
VS(-437.29) NS(-451.44) EW(241.72) TEMP(0.0)

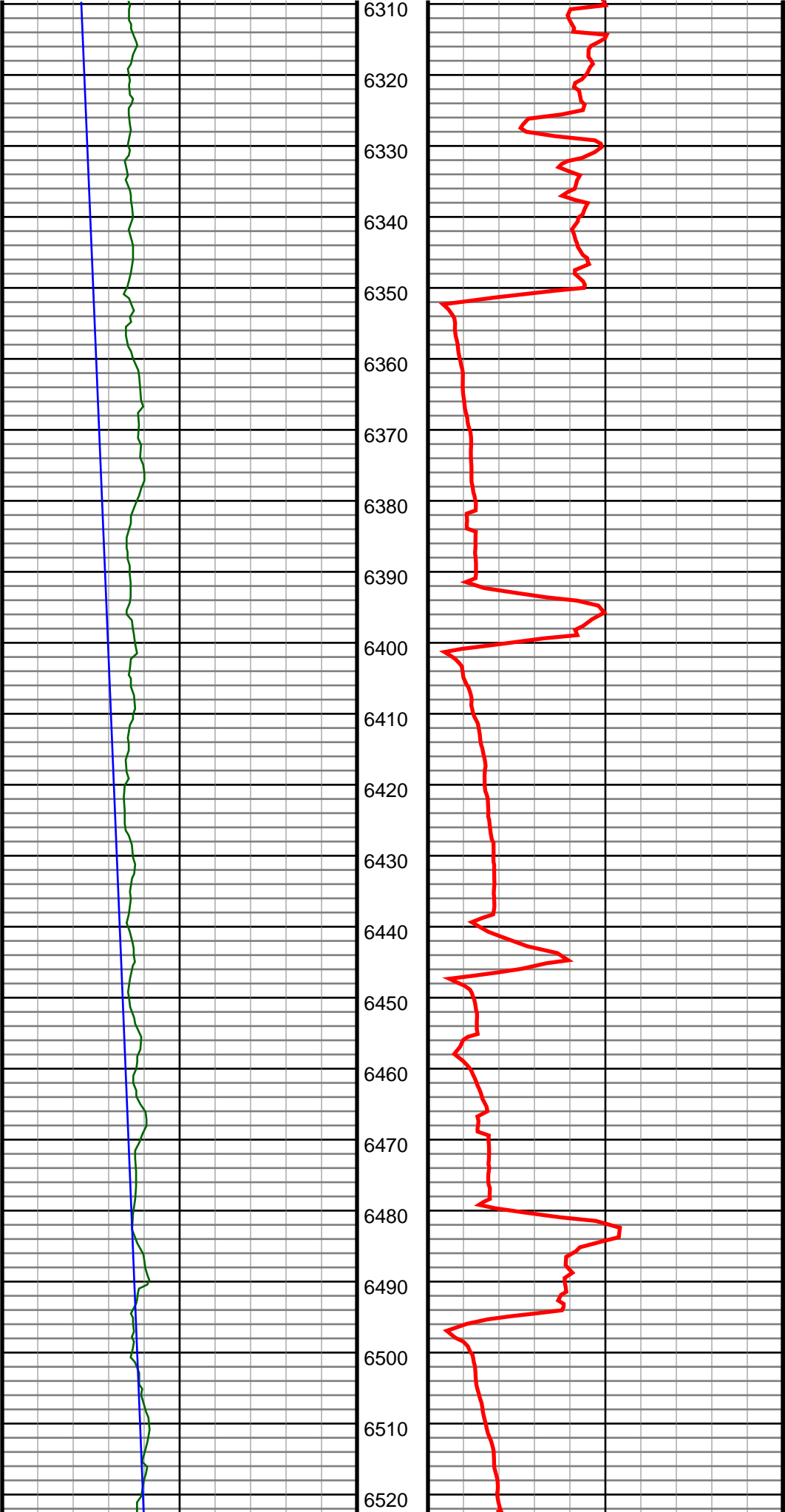
#64 MD(6016.00) Inc(5.3) Azm(154.2) TVD(5974.14)  
VS(-445.28) NS(-459.70) EW(246.41) TEMP(0.0)



#65 MD(6112.00) Inc(3.1) Azm(157.9) TVD(6069.87)  
VS(-451.51) NS(-466.10) EW(249.31) TEMP(0.0)

#66 MD(6207.00) Inc(1.2) Azm(175.3) TVD(6164.80)  
VS(-454.81) NS(-469.47) EW(250.36) TEMP(0.0)

#67 MD(6302.00) Inc(1.5) Azm(255.3) TVD(6259.78)  
VS(-456.18) NS(-470.78) EW(249.24) TEMP(0.0)

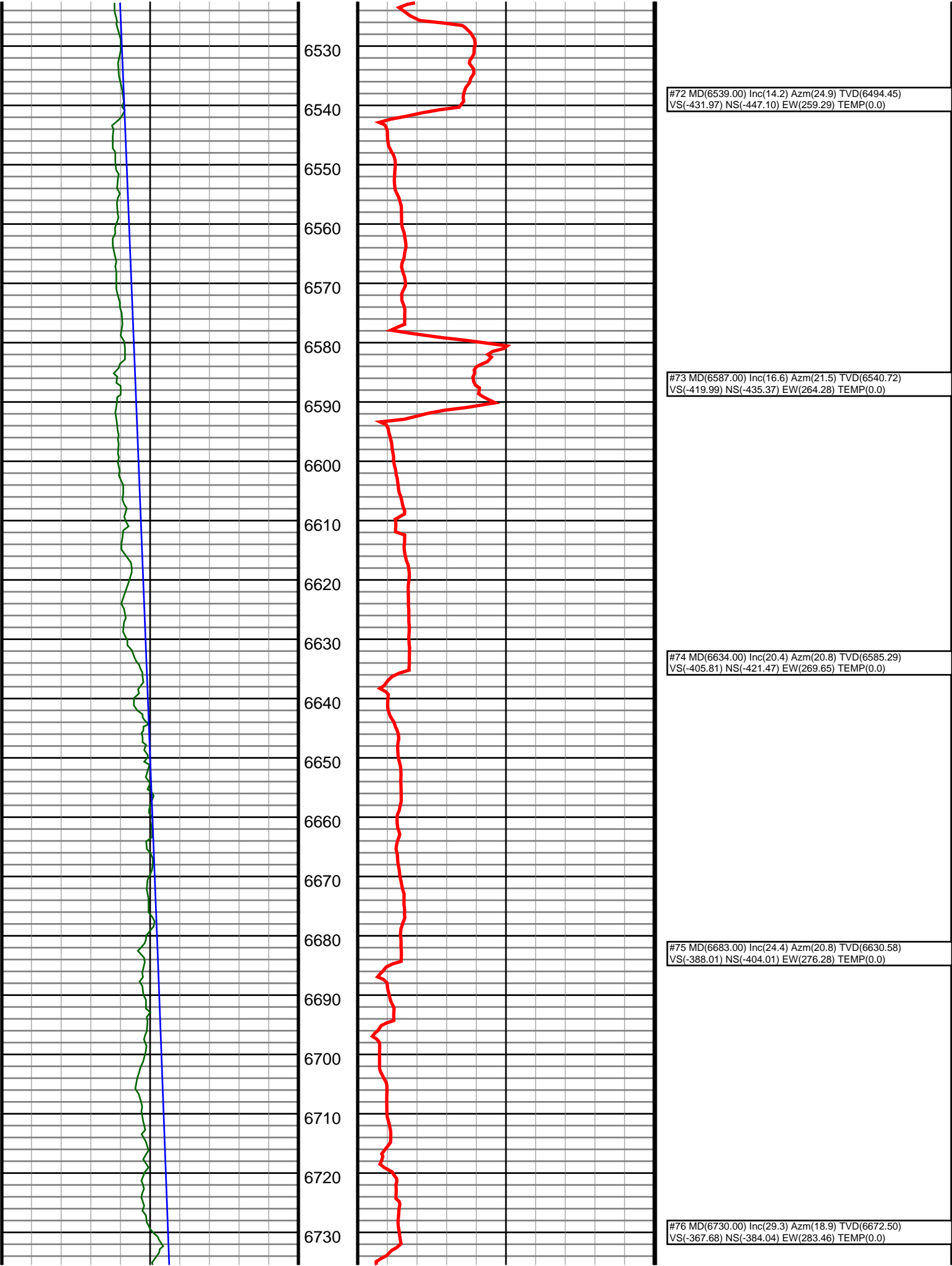


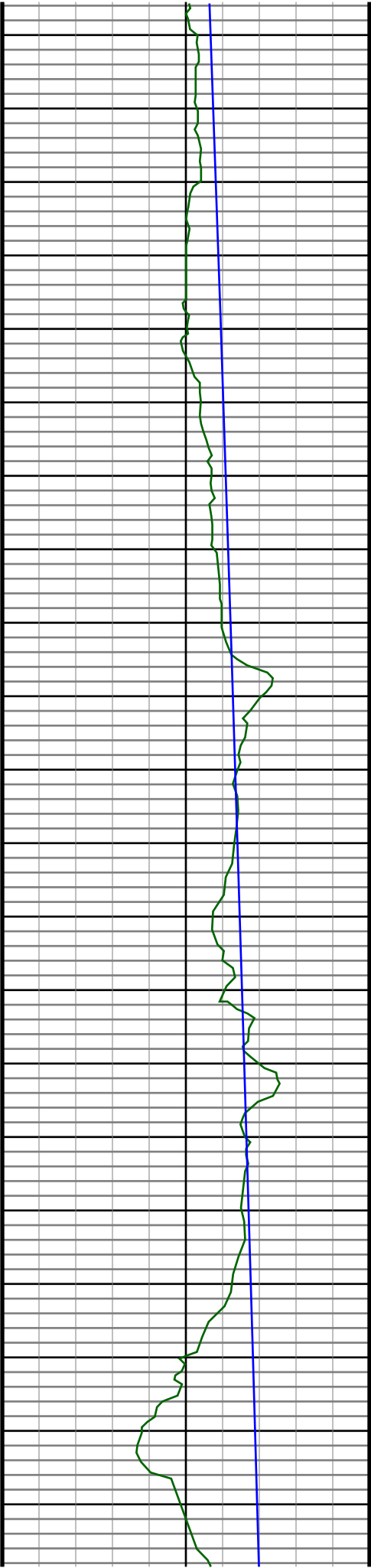
#68 MD(6349.00) Inc(1.0) Azm(299.6) TVD(6306.77)  
VS(-456.19) NS(-470.73) EW(248.29) TEMP(0.0)

#69 MD(6397.00) Inc(4.2) Azm(20.1) TVD(6354.72)  
VS(-454.32) NS(-468.88) EW(248.53) TEMP(0.0)

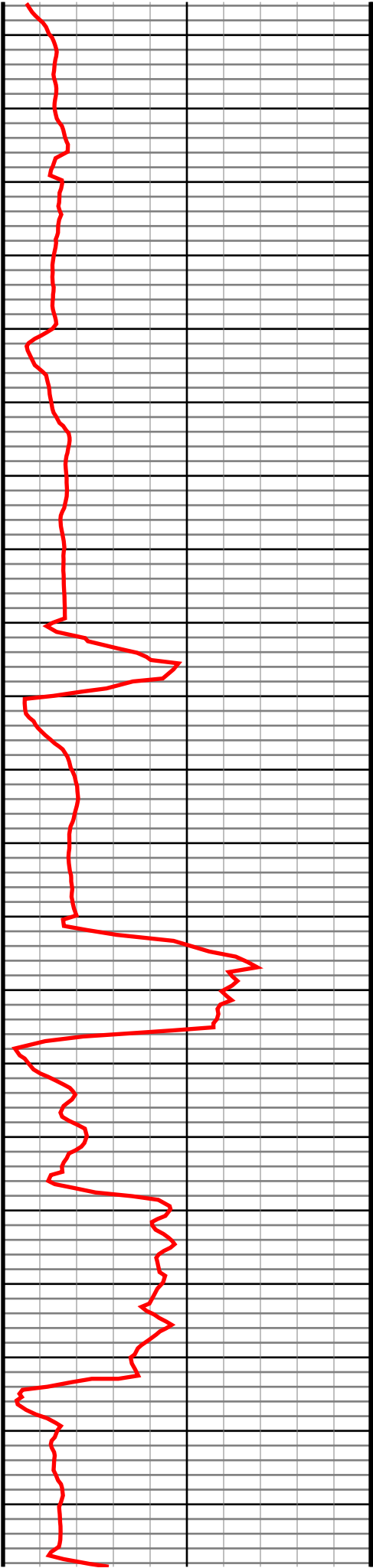
#70 MD(6444.00) Inc(8.6) Azm(26.3) TVD(6401.42)  
VS(-449.44) NS(-464.11) EW(250.68) TEMP(0.0)

#71 MD(6492.00) Inc(11.8) Azm(28.2) TVD(6448.66)  
VS(-441.69) NS(-456.56) EW(254.59) TEMP(0.0)





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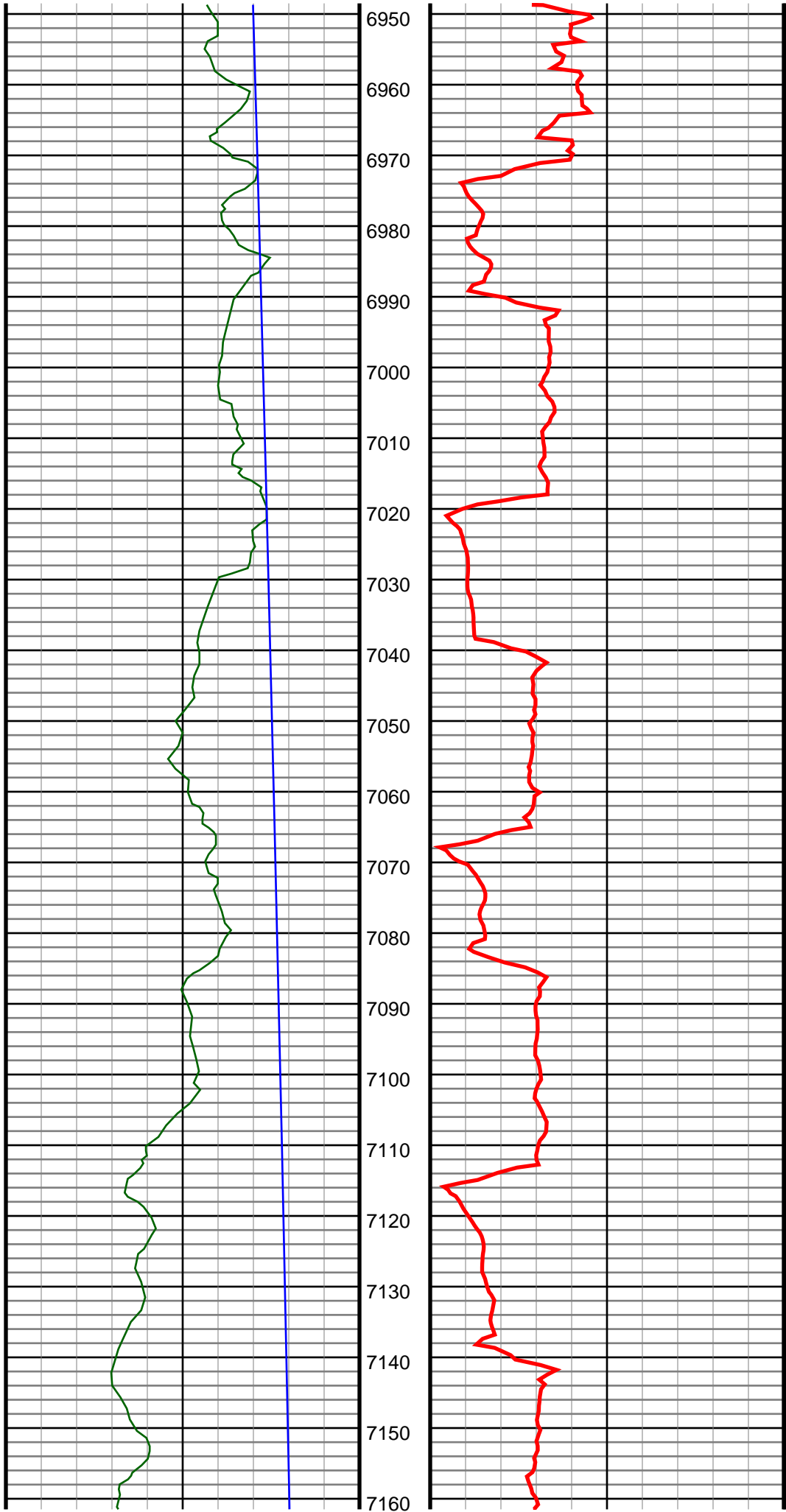


#77 MD(6778.00) Inc(36.0) Azm(13.4) TVD(6712.90)  
VS(-342.45) NS(-359.18) EW(290.54) TEMP(0.0)

#78 MD(6825.00) Inc(40.4) Azm(5.0) TVD(6749.85)  
VS(-313.60) NS(-330.53) EW(295.07) TEMP(0.0)

#79 MD(6873.00) Inc(43.2) Azm(358.5) TVD(6785.65)  
VS(-281.66) NS(-298.59) EW(296.00) TEMP(0.0)

#80 MD(6920.00) Inc(45.5) Azm(355.9) TVD(6819.26)  
VS(-248.99) NS(-265.79) EW(294.38) TEMP(0.0)



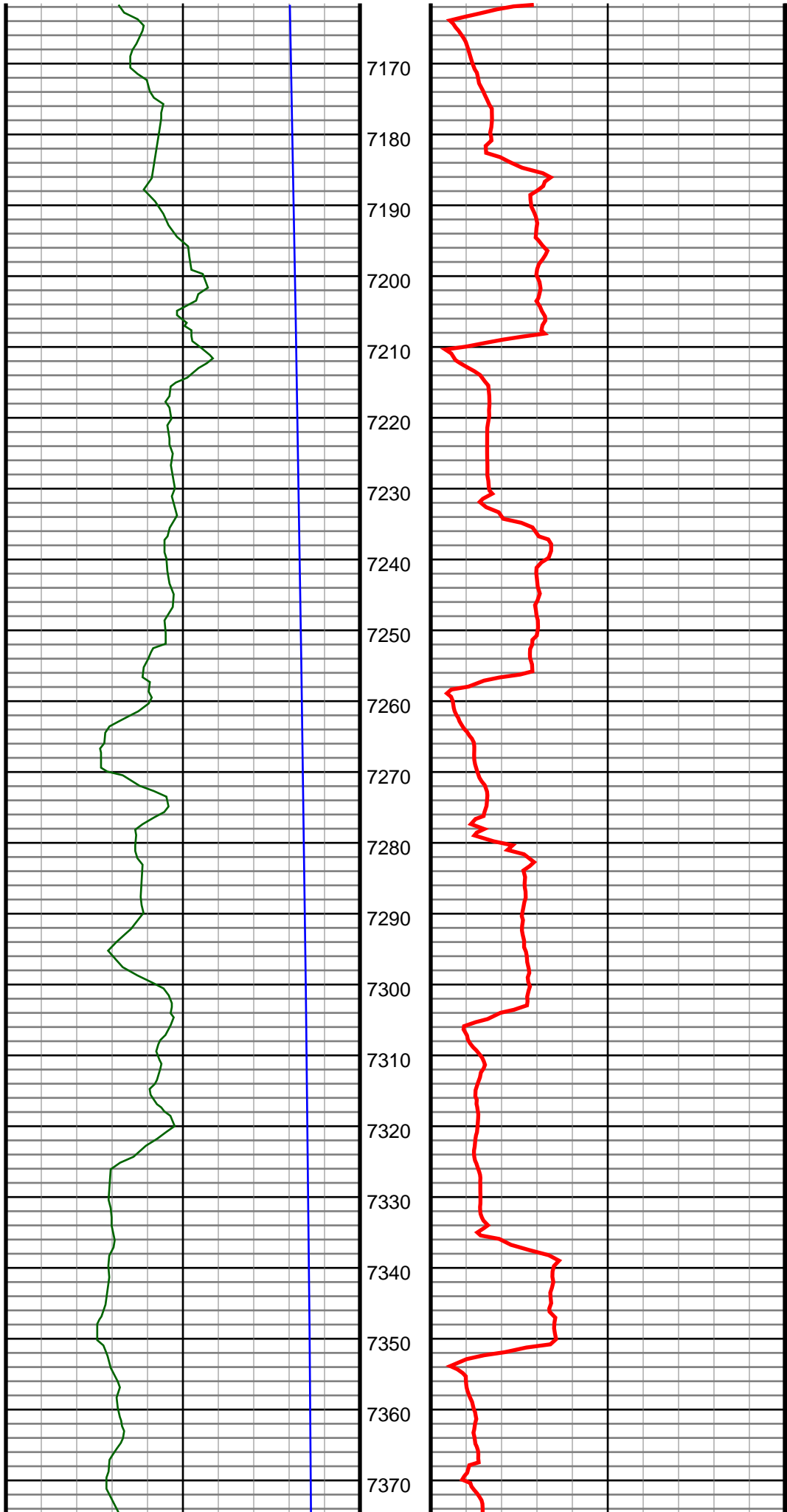
#81 MD(6968.00) Inc(48.6) Azm(354.1) TVD(6851.96)  
VS(-214.23) NS(-230.79) EW(291.31) TEMP(0.0)

#82 MD(7015.00) Inc(51.7) Azm(354.1) TVD(6882.07)  
VS(-178.60) NS(-194.91) EW(287.60) TEMP(0.0)

#83 MD(7064.00) Inc(55.0) Azm(354.6) TVD(6911.32)  
VS(-139.76) NS(-155.79) EW(283.73) TEMP(0.0)

#84 MD(7111.00) Inc(57.9) Azm(355.0) TVD(6937.29)  
VS(-101.01) NS(-116.79) EW(280.18) TEMP(0.0)

#85 MD(7159.00) Inc(61.8) Azm(356.0) TVD(6961.40)  
VS(-59.89) NS(-75.42) EW(276.93) TEMP(0.0)



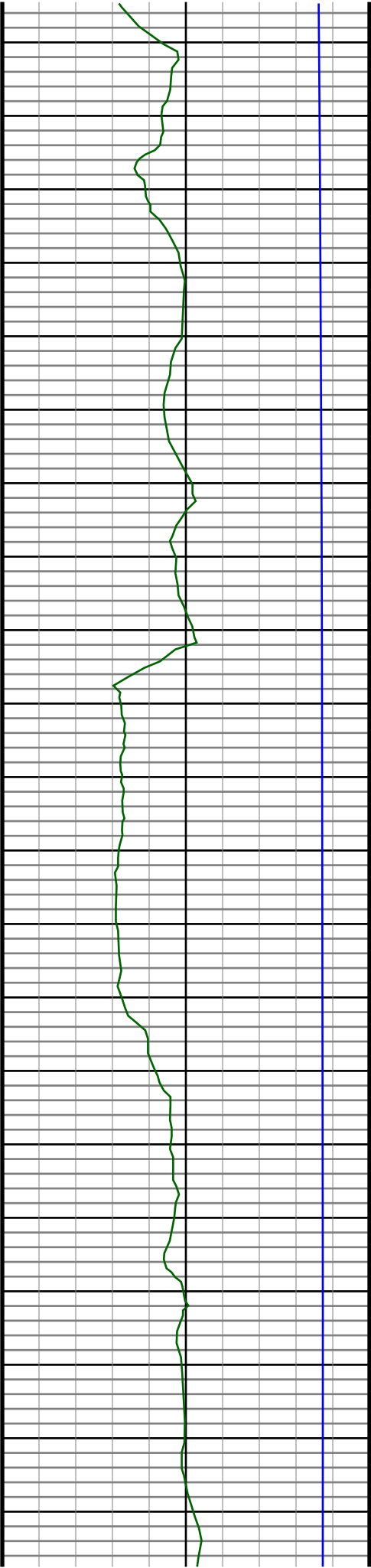
#86 MD(7206.00) Inc(65.3) Azm(357.8) TVD(6982.33)  
VS(-18.07) NS(-33.40) EW(274.67) TEMP(0.0)

#87 MD(7254.00) Inc(68.8) Azm(358.7) TVD(7001.04)  
VS(25.96) NS(10.77) EW(273.32) TEMP(0.0)

#88 MD(7301.00) Inc(72.3) Azm(358.5) TVD(7016.69)  
VS(70.13) NS(55.07) EW(272.24) TEMP(0.0)

#89 MD(7349.00) Inc(77.2) Azm(358.3) TVD(7029.31)  
VS(116.26) NS(101.34) EW(270.95) TEMP(0.0)





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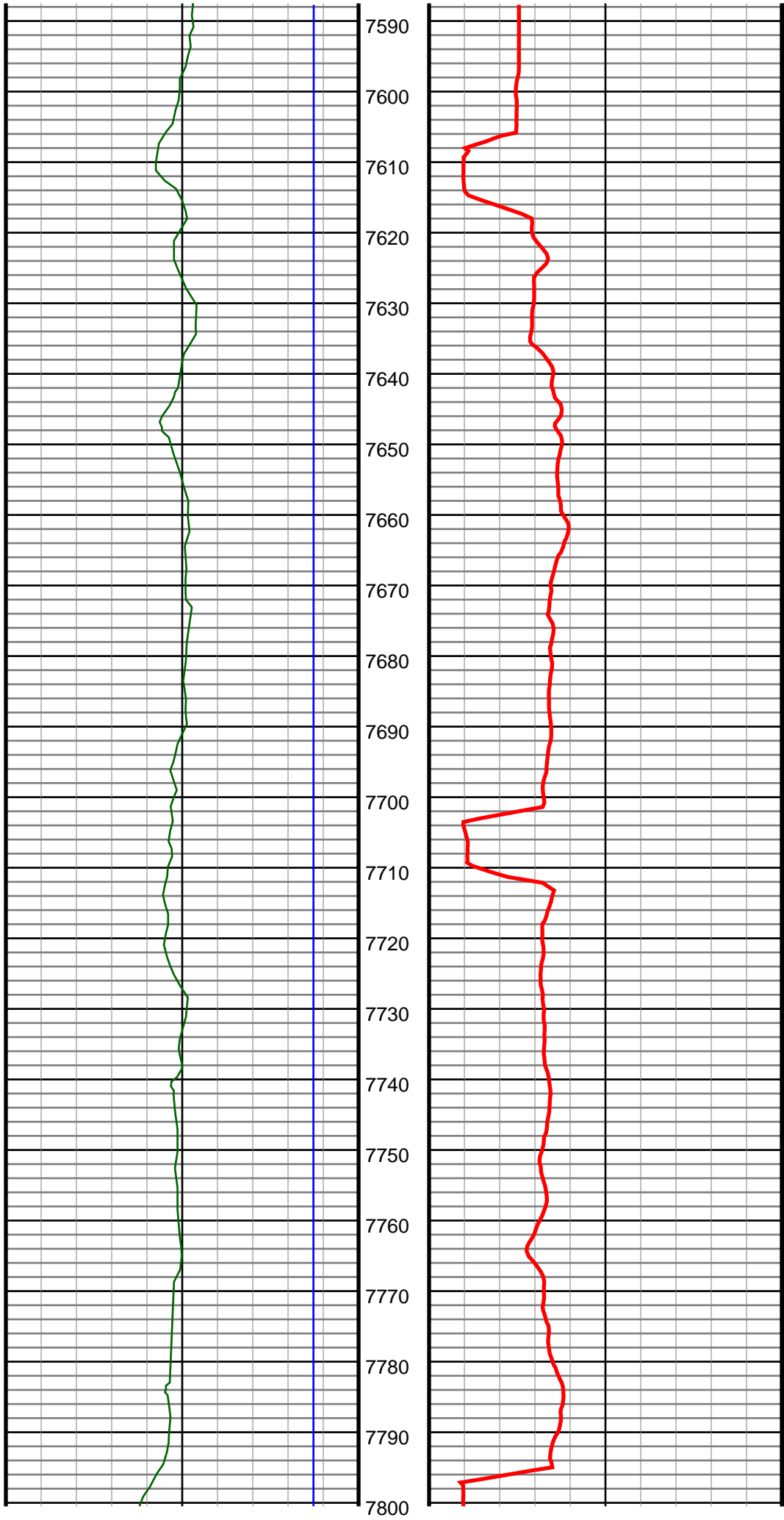


#90 MD(7396.00) Inc(81.5) Azm(358.3) TVD(7038.00)  
VS(162.27) NS(147.50) EW(269.58) TEMP(0.0)

#91 MD(7444.00) Inc(85.3) Azm(358.2) TVD(7043.51)  
VS(209.77) NS(195.15) EW(268.12) TEMP(0.0)

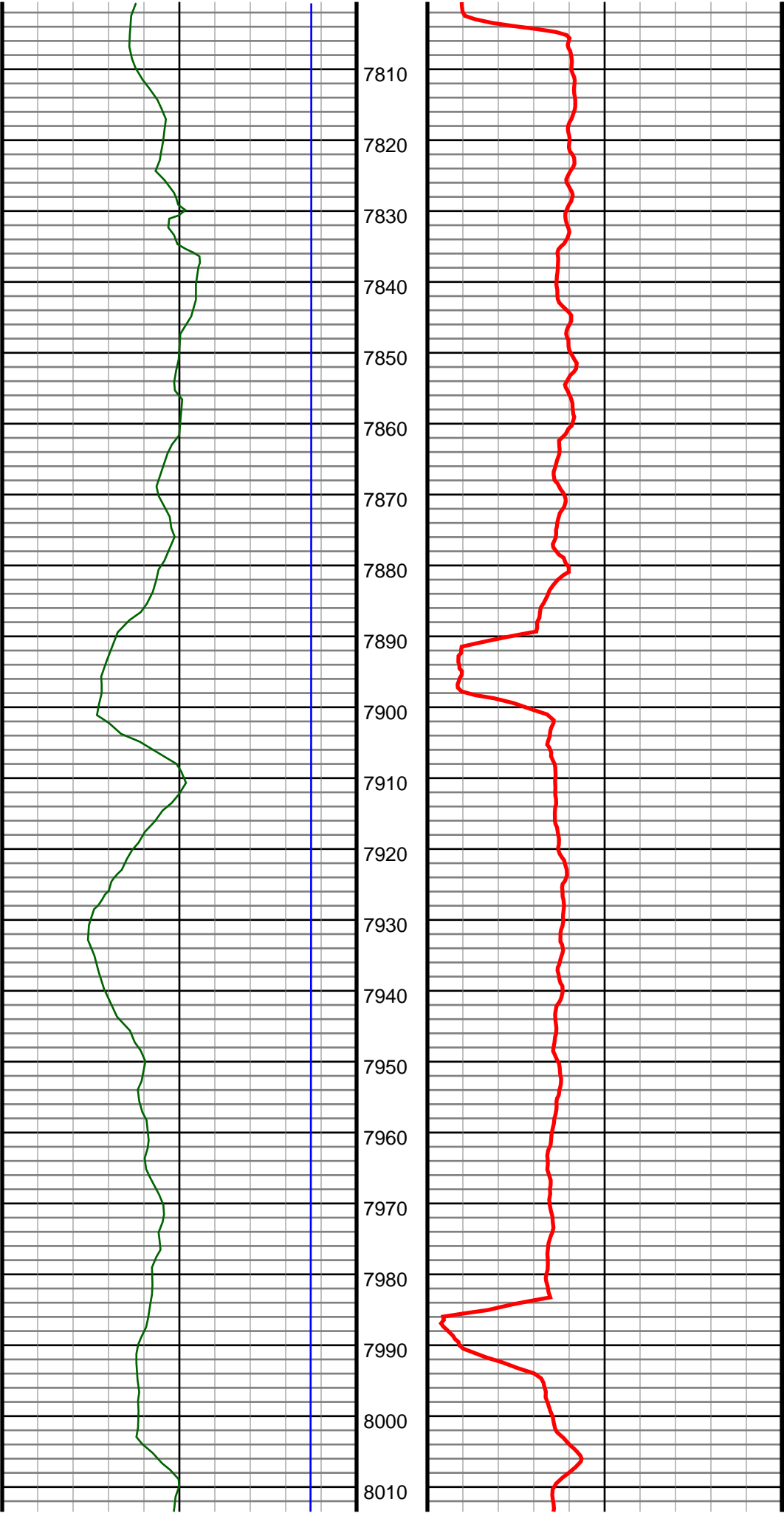
#92 MD(7463.00) Inc(86.9) Azm(358.3) TVD(7044.81)  
VS(228.66) NS(214.10) EW(267.54) TEMP(0.0)

#93 MD(7553.00) Inc(89.5) Azm(358.7) TVD(7047.63)  
VS(318.30) NS(304.02) EW(265.19) TEMP(0.0)



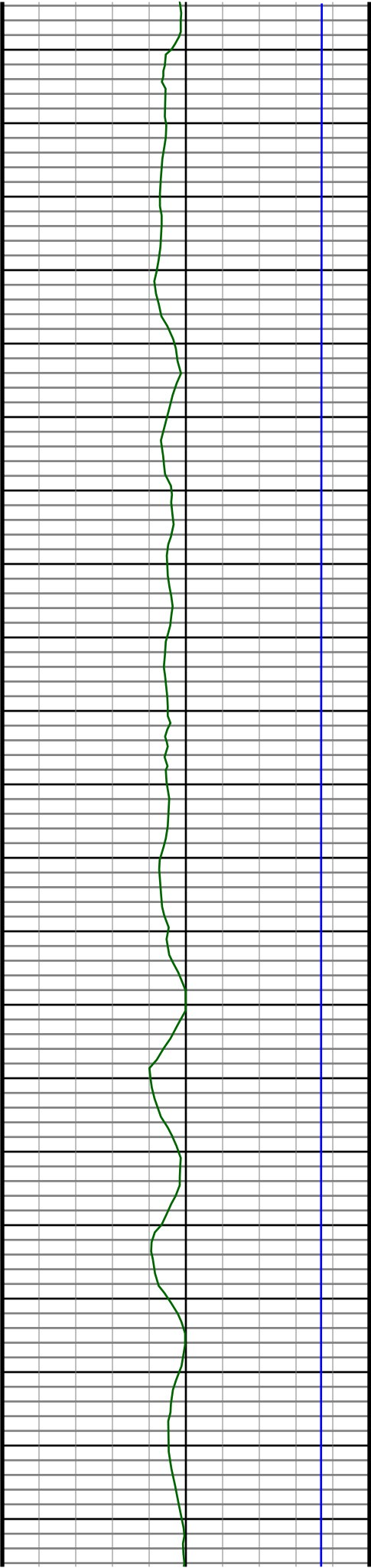
#94 MD(7648.00) Inc(91.1) Azm(359.0) TVD(7047.13)  
VS(413.03) NS(398.99) EW(263.28) TEMP(0.0)

#95 MD(7742.00) Inc(89.8) Azm(358.7) TVD(7046.40)  
VS(506.75) NS(492.97) EW(261.40) TEMP(0.0)



#96 MD(7836.00) Inc(89.8) Azm(359.5) TVD(7046.72)  
VS(600.51) NS(586.96) EW(259.92) TEMP(0.0)

#97 MD(7930.00) Inc(91.1) Azm(0.1) TVD(7045.99)  
VS(694.34) NS(680.95) EW(259.59) TEMP(0.0)



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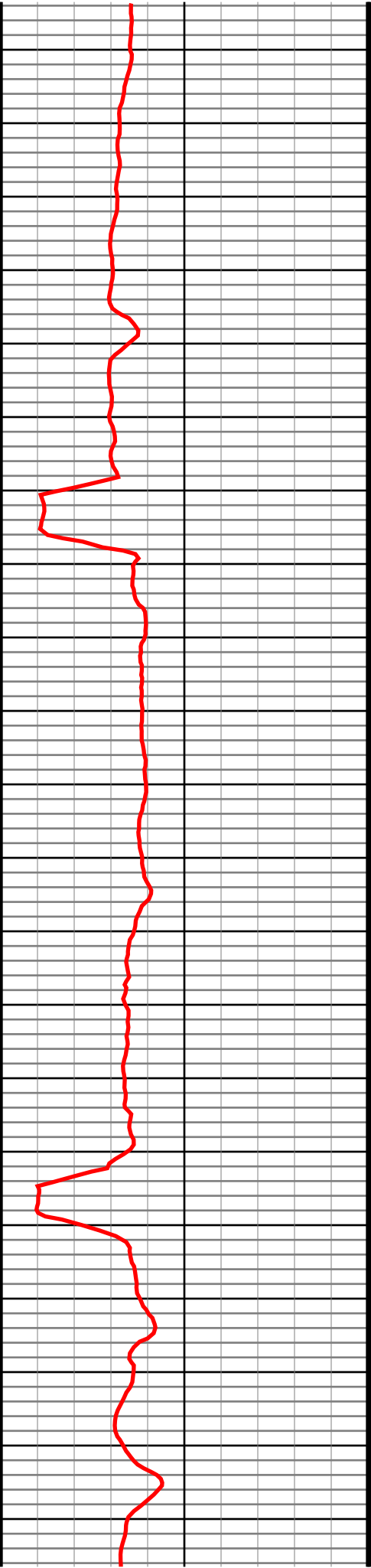
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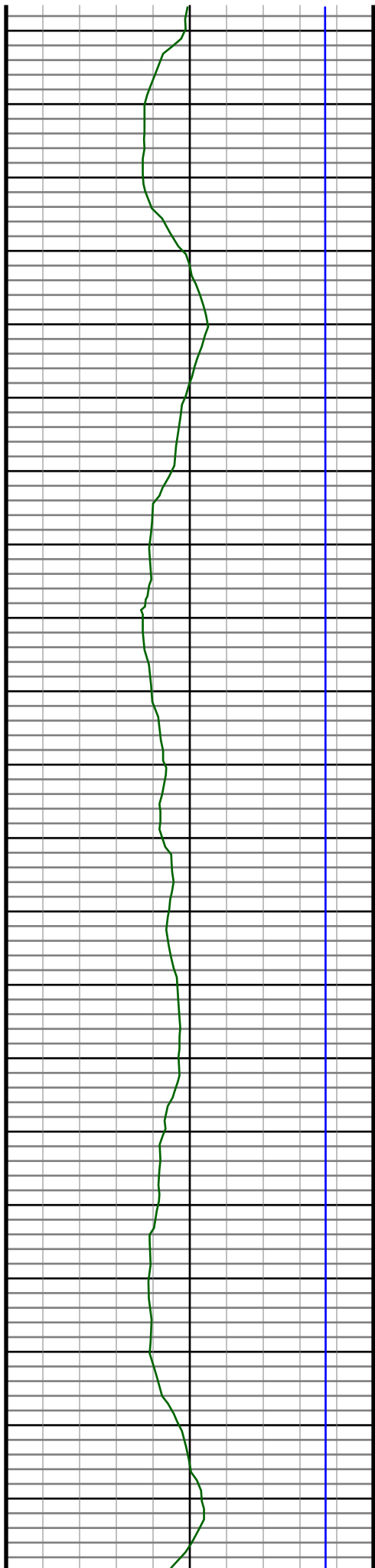
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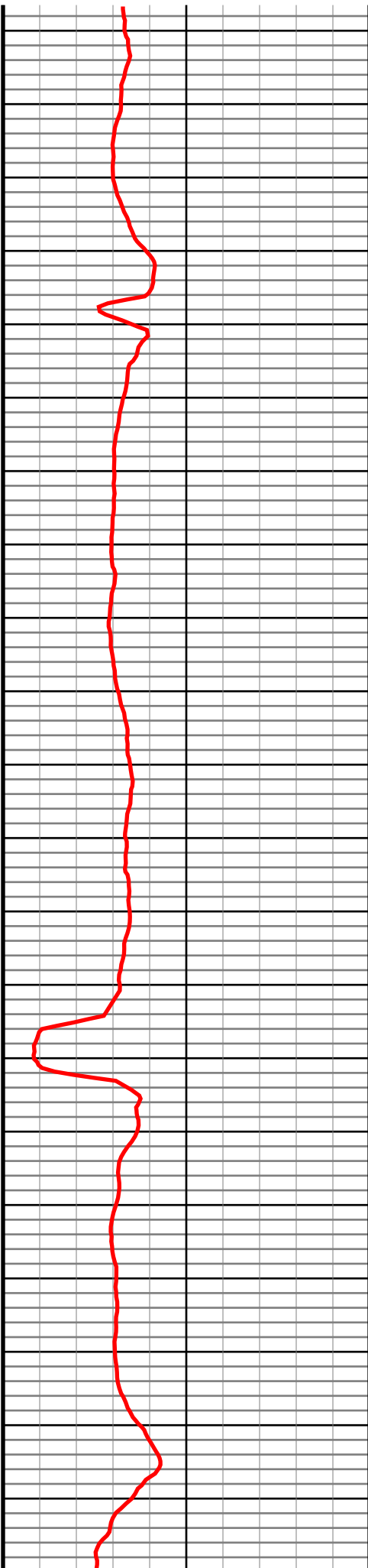
#98 MD(8024.00) Inc(91.5) Azm(0.8) TVD(7043.85)  
VS(788.21) NS(774.92) EW(260.33) TEMP(0.0)

#99 MD(8118.00) Inc(90.7) Azm(359.7) TVD(7042.05)  
VS(882.06) NS(868.90) EW(260.74) TEMP(0.0)

#100 MD(8213.00) Inc(89.6) Azm(0.4) TVD(7041.80)  
VS(976.92) NS(963.90) EW(260.82) TEMP(0.0)

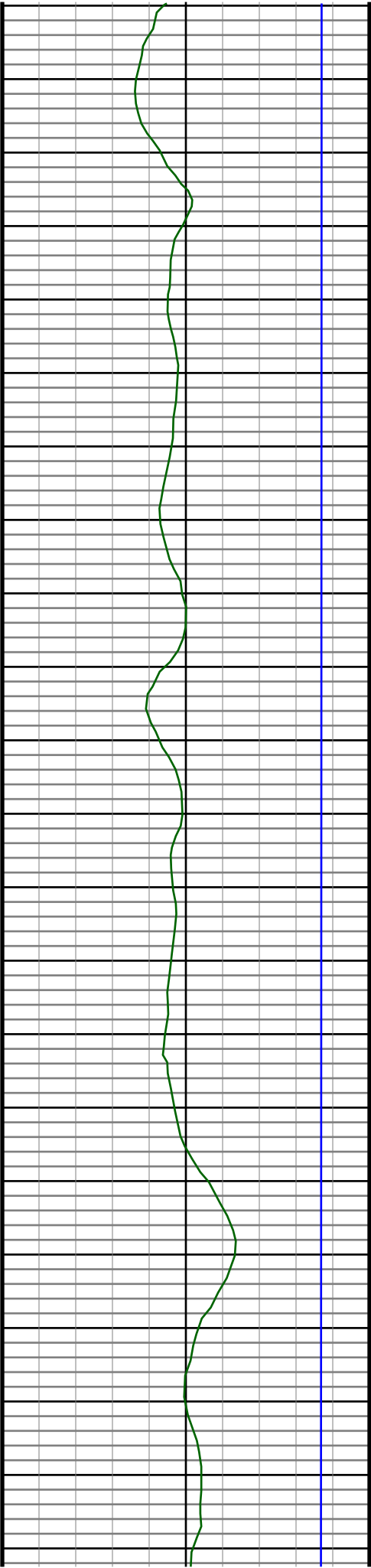


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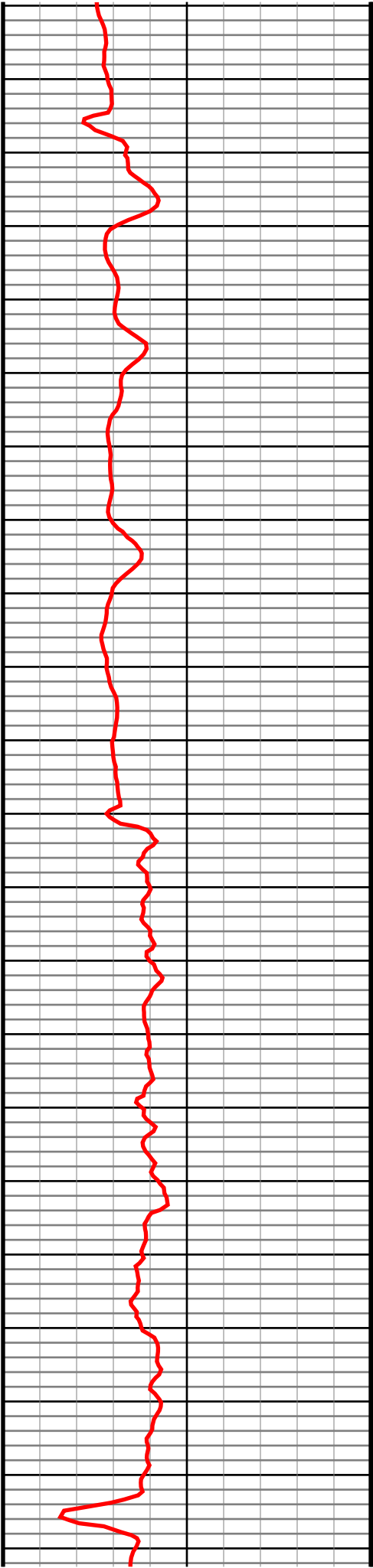


#101 MD(8306.00) Inc(88.8) Azm(0.9) TVD(7043.10)  
VS(1069.82) NS(1056.88) EW(261.88) TEMP(0.0)

#102 MD(8401.00) Inc(90.3) Azm(0.2) TVD(7043.85)  
VS(1164.71) NS(1151.87) EW(262.79) TEMP(0.0)

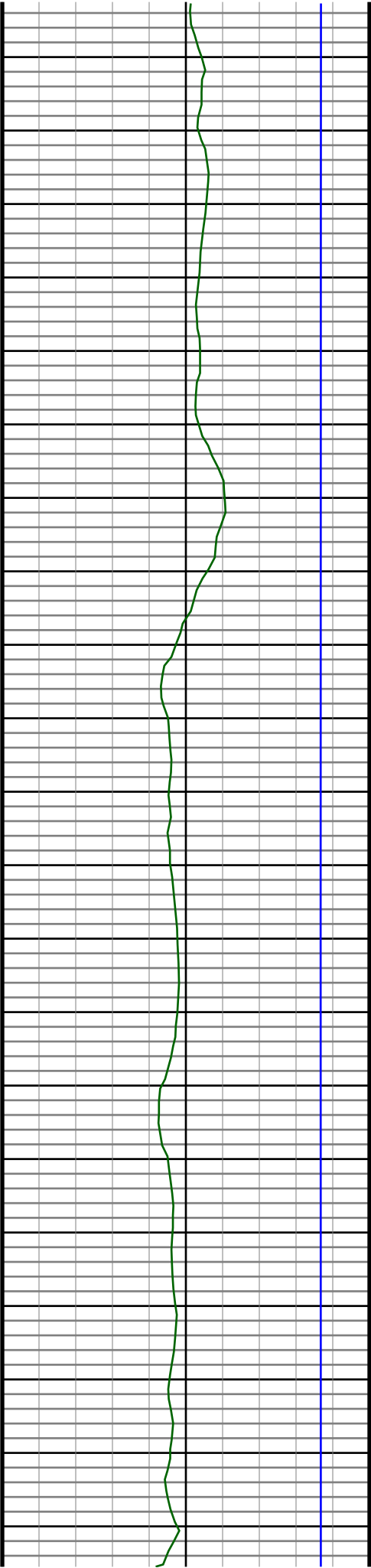


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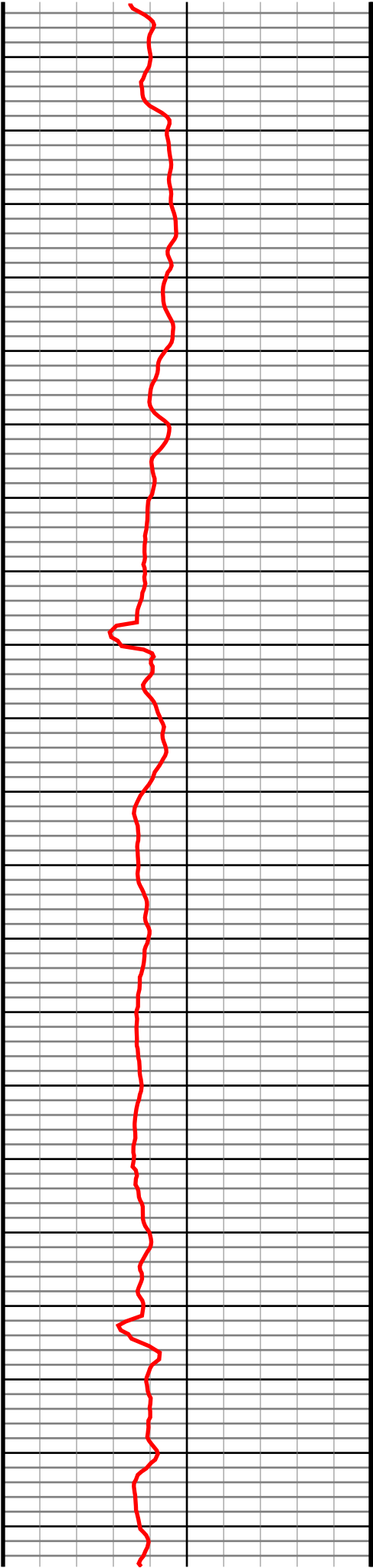


#103 MD(8495.00) Inc(90.5) Azm(359.9) TVD(7043.19)  
VS(1258.57) NS(1245.87) EW(262.87) TEMP(0.0)

#104 MD(8589.00) Inc(90.7) Azm(359.5) TVD(7042.20)  
VS(1352.39) NS(1339.86) EW(262.38) TEMP(0.0)

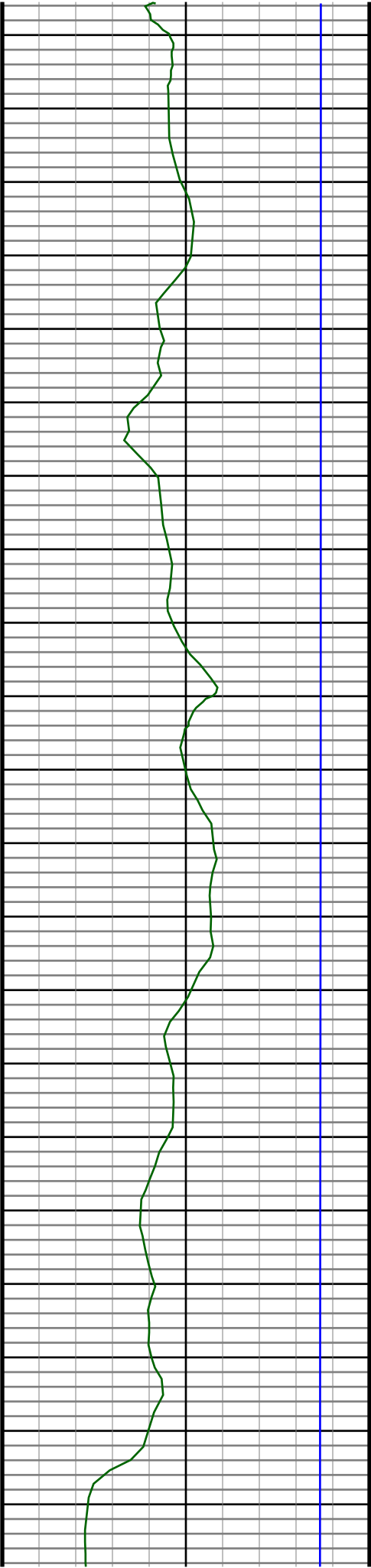


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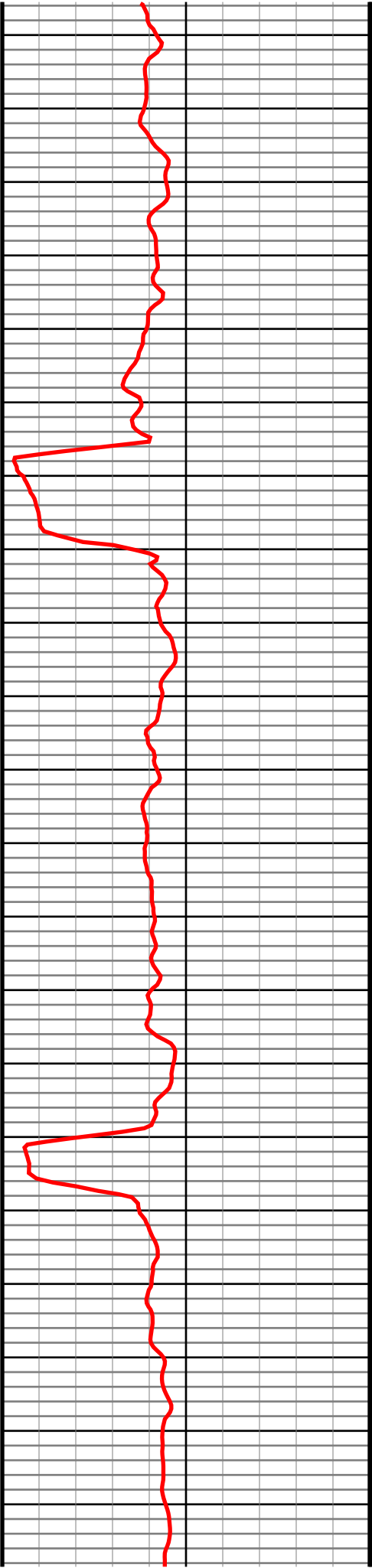


#105 MD(8683.00) Inc(90.7) Azm(359.5) TVD(7041.06)  
VS(1446.19) NS(1433.85) EW(261.56) TEMP(0.0)

#106 MD(8778.00) Inc(90.1) Azm(359.7) TVD(7040.39)  
VS(1541.00) NS(1528.85) EW(260.89) TEMP(0.0)



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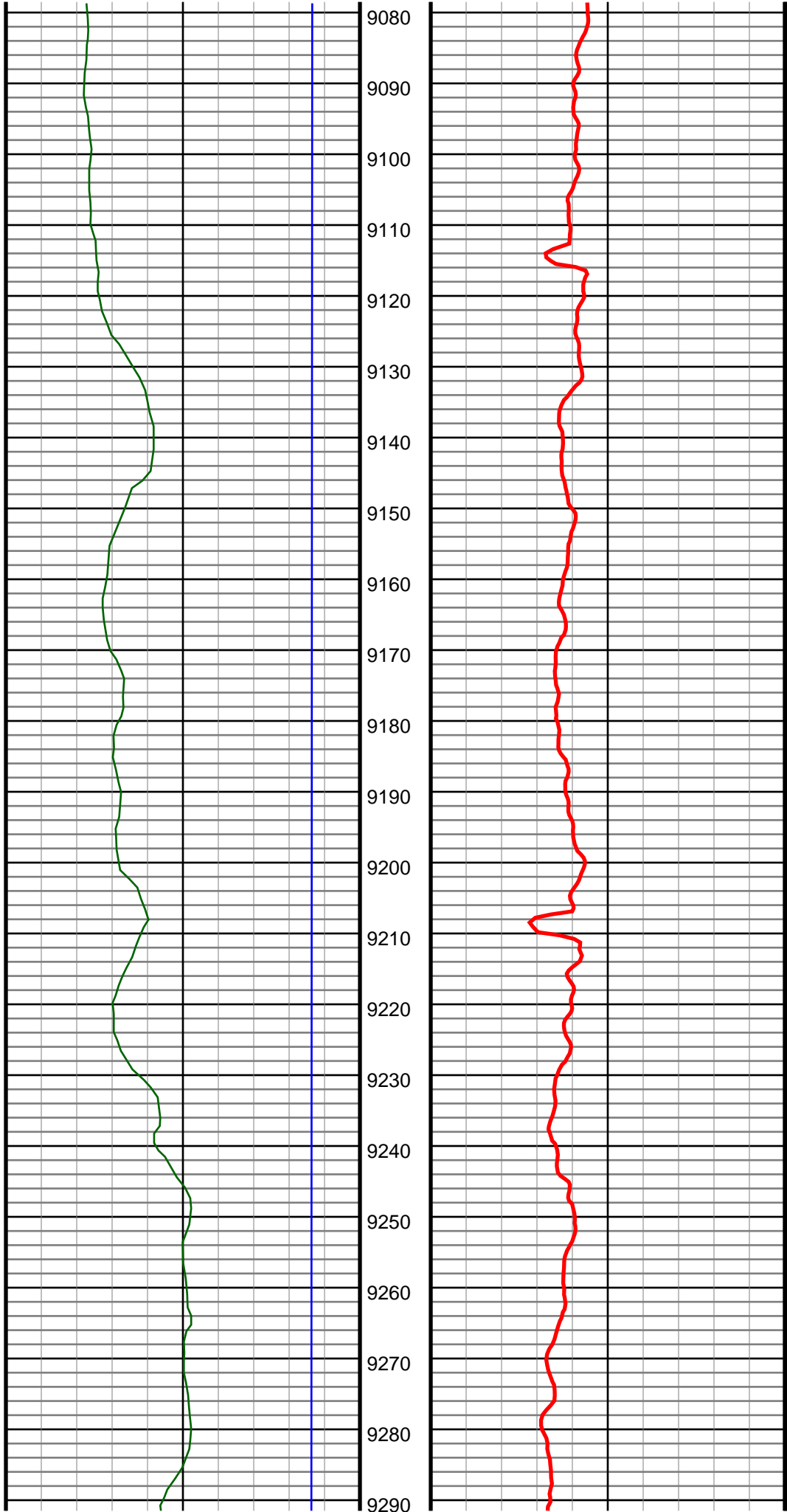


#107 MD(8872.00) Inc(89.1) Azm(359.9) TVD(7041.05)  
VS(1634.83) NS(1622.84) EW(260.57) TEMP(0.0)

#108 MD(8966.00) Inc(91.5) Azm(359.7) TVD(7040.56)  
VS(1728.66) NS(1716.83) EW(260.24) TEMP(0.0)

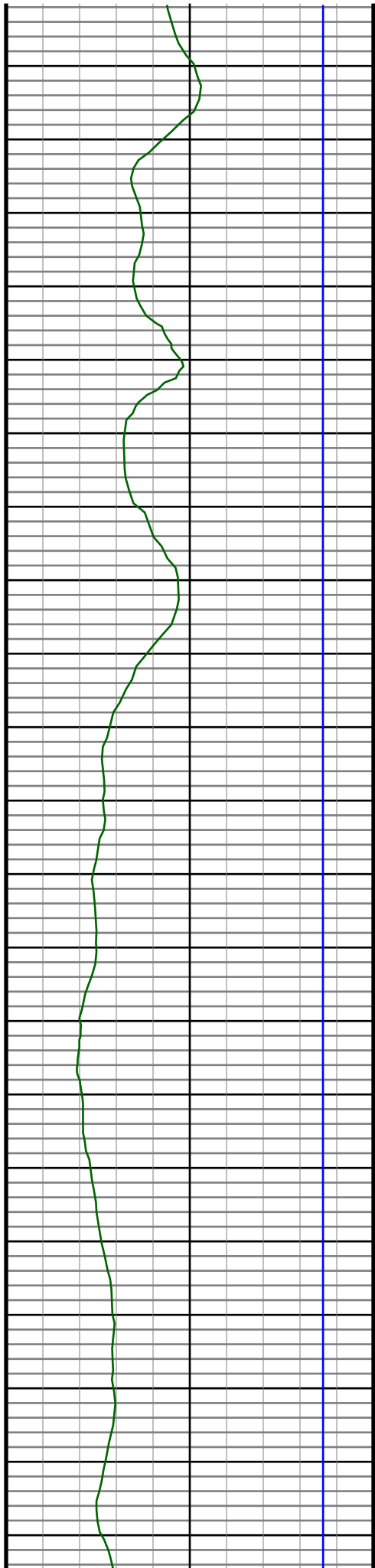
#109 MD(9060.00) Inc(90.9) Azm(359.5) TVD(7038.59)  
VS(1822.45) NS(1810.81) EW(259.58) TEMP(0.0)



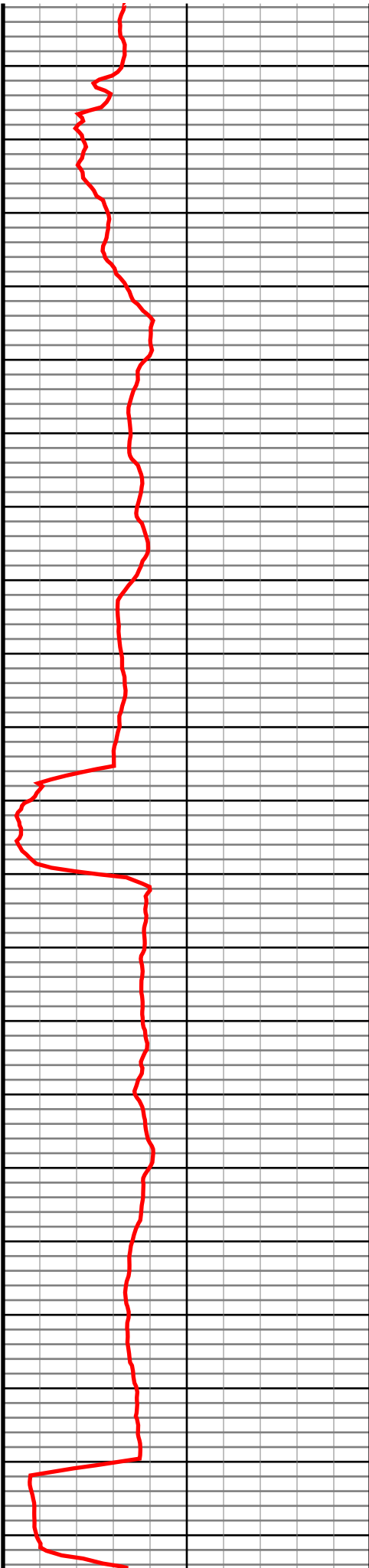


#110 MD(9154.00) Inc(90.8) Azm(359.2) TVD(7037.19)  
VS(1916.23) NS(1904.80) EW(258.52) TEMP(0.0)

#111 MD(9248.00) Inc(90.8) Azm(358.3) TVD(7035.88)  
VS(2009.94) NS(1998.76) EW(256.47) TEMP(0.0)

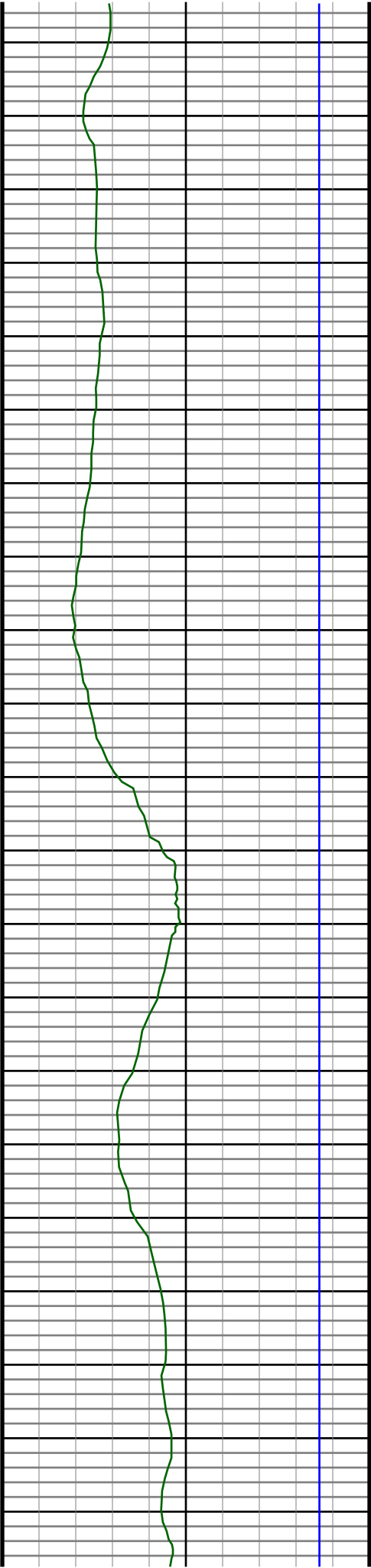


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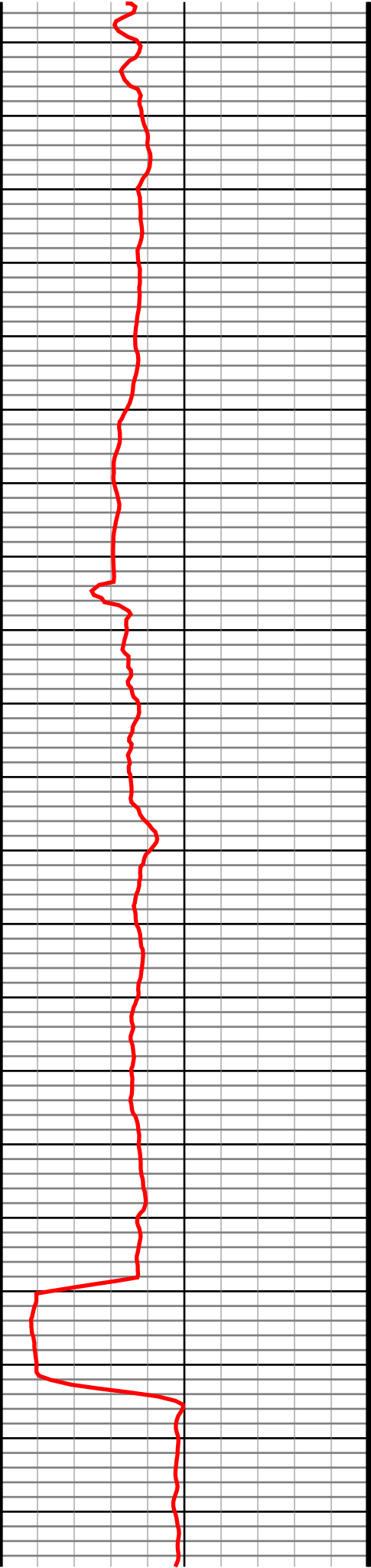


#112 MD(9342.00) Inc(90.5) Azm(358.3) TVD(7034.82)  
VS(2103.59) NS(2092.72) EW(253.68) TEMP(0.0)

#113 MD(9436.00) Inc(89.3) Azm(358.1) TVD(7034.98)  
VS(2197.23) NS(2186.67) EW(250.72) TEMP(0.0)

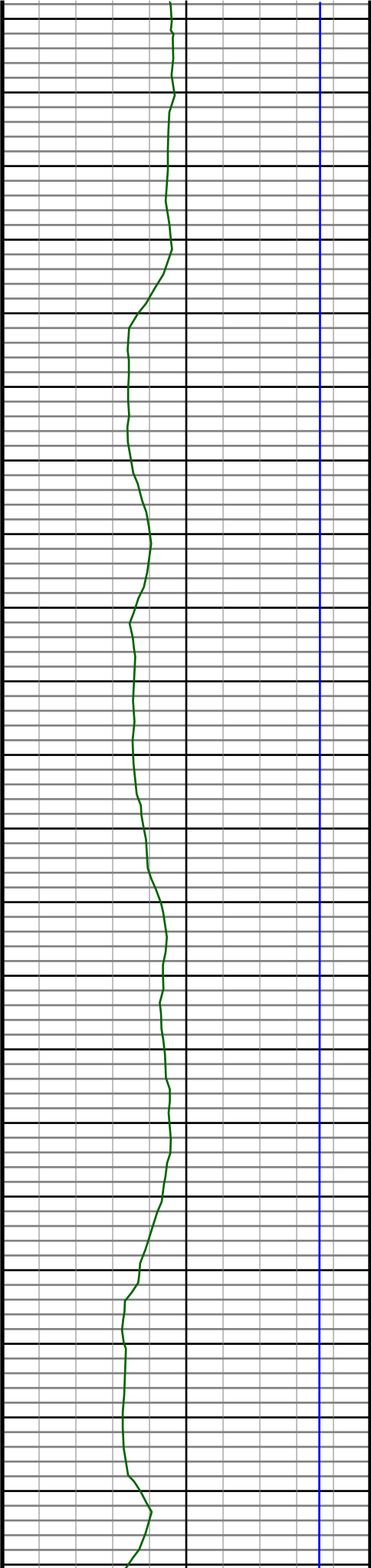


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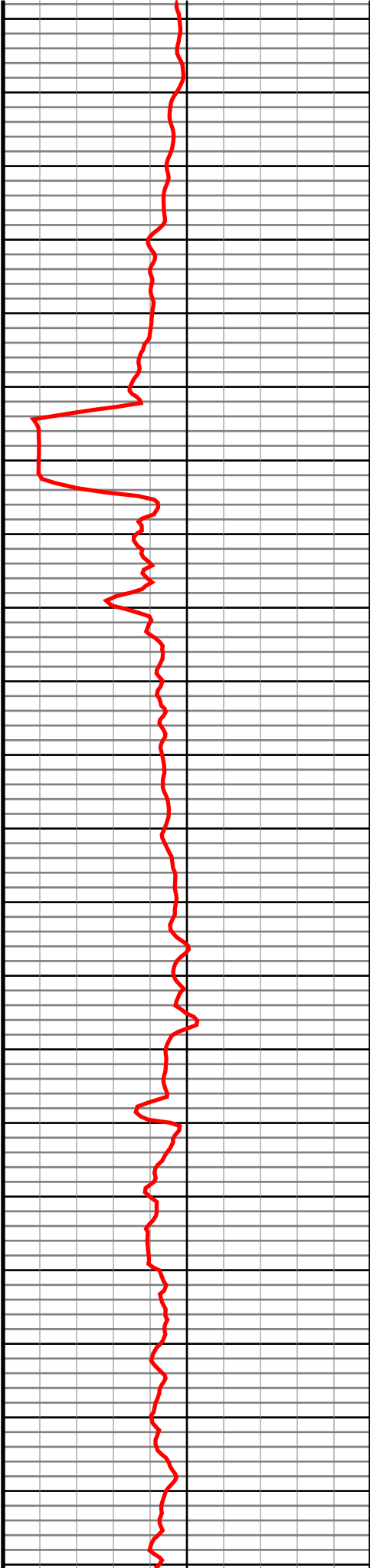


#114 MD(9530.00) Inc(89.9) Azm(359.4) TVD(7035.64)  
VS(2290.94) NS(2280.64) EW(248.67) TEMP(0.0)

#115 MD(9624.00) Inc(89.7) Azm(358.7) TVD(7035.96)  
VS(2384.70) NS(2374.63) EW(247.12) TEMP(0.0)



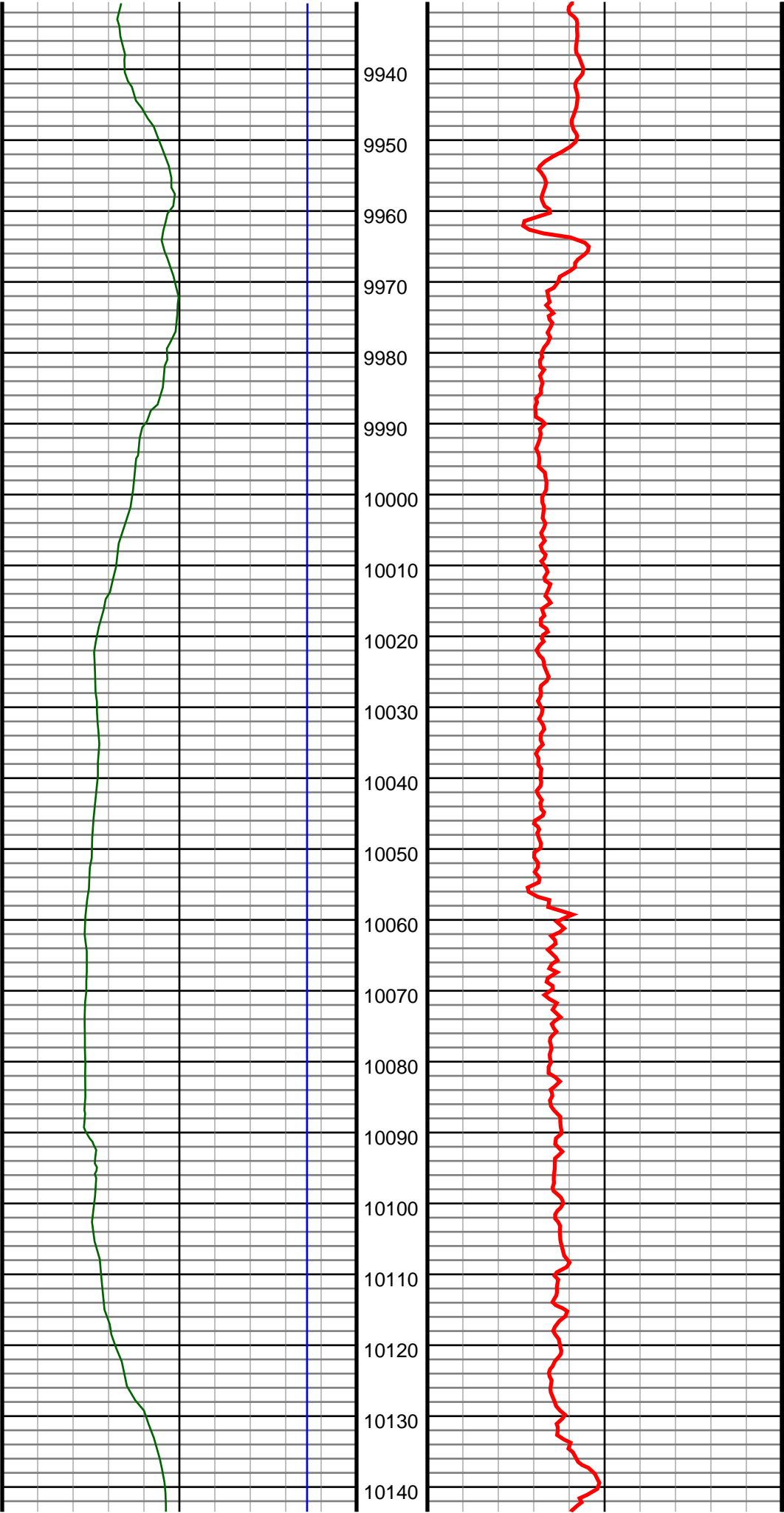
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#116 MD(9718.00) Inc(89.7) Azm(359.7) TVD(7036.46)  
VS(2478.47) NS(2468.61) EW(245.80) TEMP(0.0)

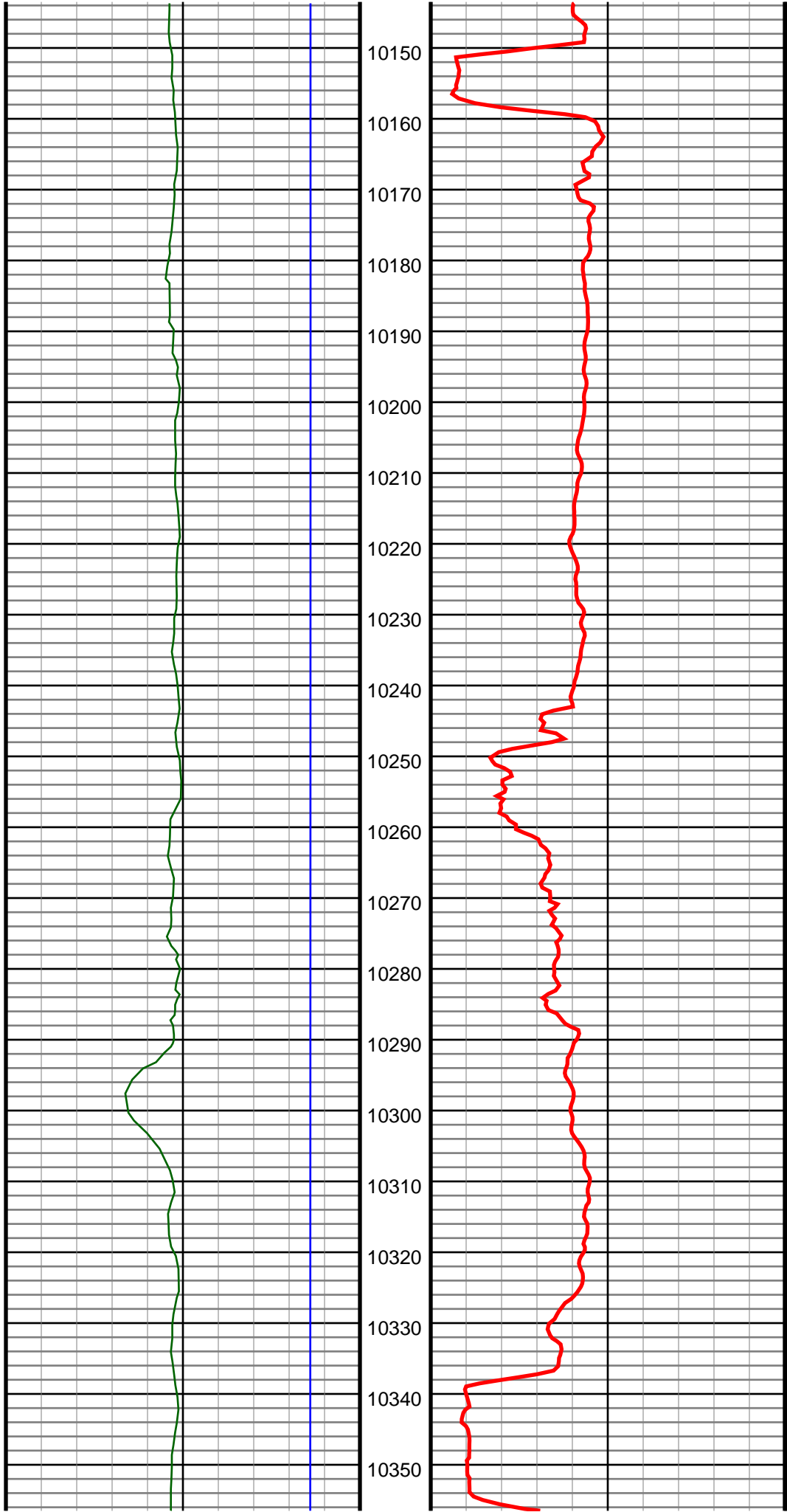
#117 MD(9812.00) Inc(91.0) Azm(2.2) TVD(7035.88)  
VS(2572.38) NS(2562.59) EW(247.36) TEMP(0.0)

#118 MD(9906.00) Inc(91.1) Azm(1.8) TVD(7034.16)  
VS(2666.35) NS(2656.52) EW(250.64) TEMP(0.0)



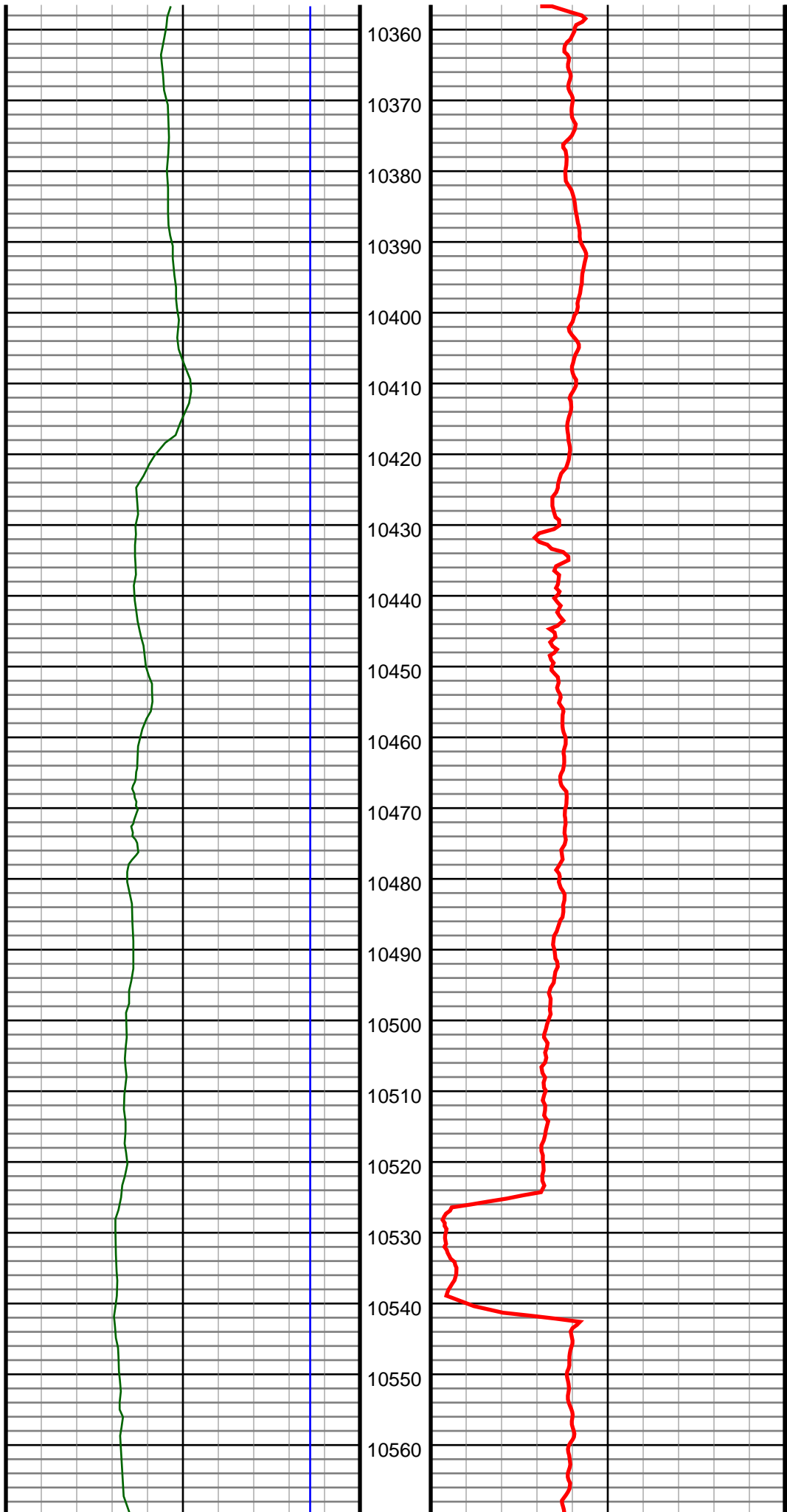
#119 MD(10001.00) Inc(90.9) Azm(1.3) TVD(7032.50)  
VS(2761.29) NS(2751.47) EW(253.21) TEMP(0.0)

#120 MD(10094.00) Inc(89.5) Azm(0.2) TVD(7032.18)  
VS(2854.21) NS(2844.45) EW(254.43) TEMP(0.0)



#121 MD(10189.00) Inc(90.0) Azm(0.9) TVD(7032.59)  
VS(2949.10) NS(2939.45) EW(255.34) TEMP(0.0)

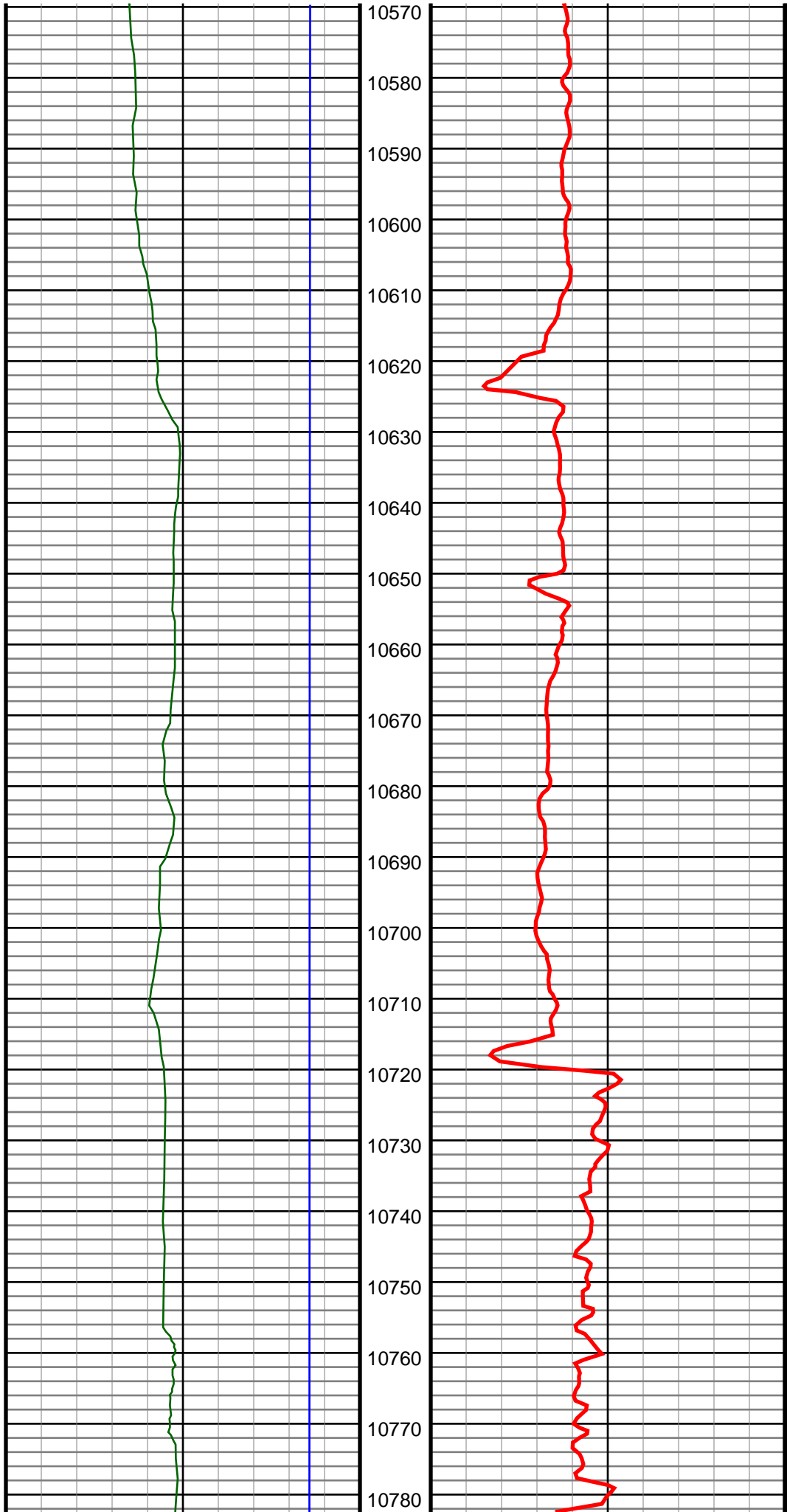
#122 MD(10283.00) Inc(90.6) Azm(2.2) TVD(7032.10)  
VS(3043.06) NS(3033.41) EW(257.88) TEMP(0.0)



#123 MD(10378.00) Inc(90.2) Azm(358.7) TVD(7031.44)  
VS(3137.93) NS(3128.39) EW(258.63) TEMP(0.0)

#124 MD(10472.00) Inc(89.6) Azm(358.5) TVD(7031.60)  
VS(3231.63) NS(3222.36) EW(256.33) TEMP(0.0)

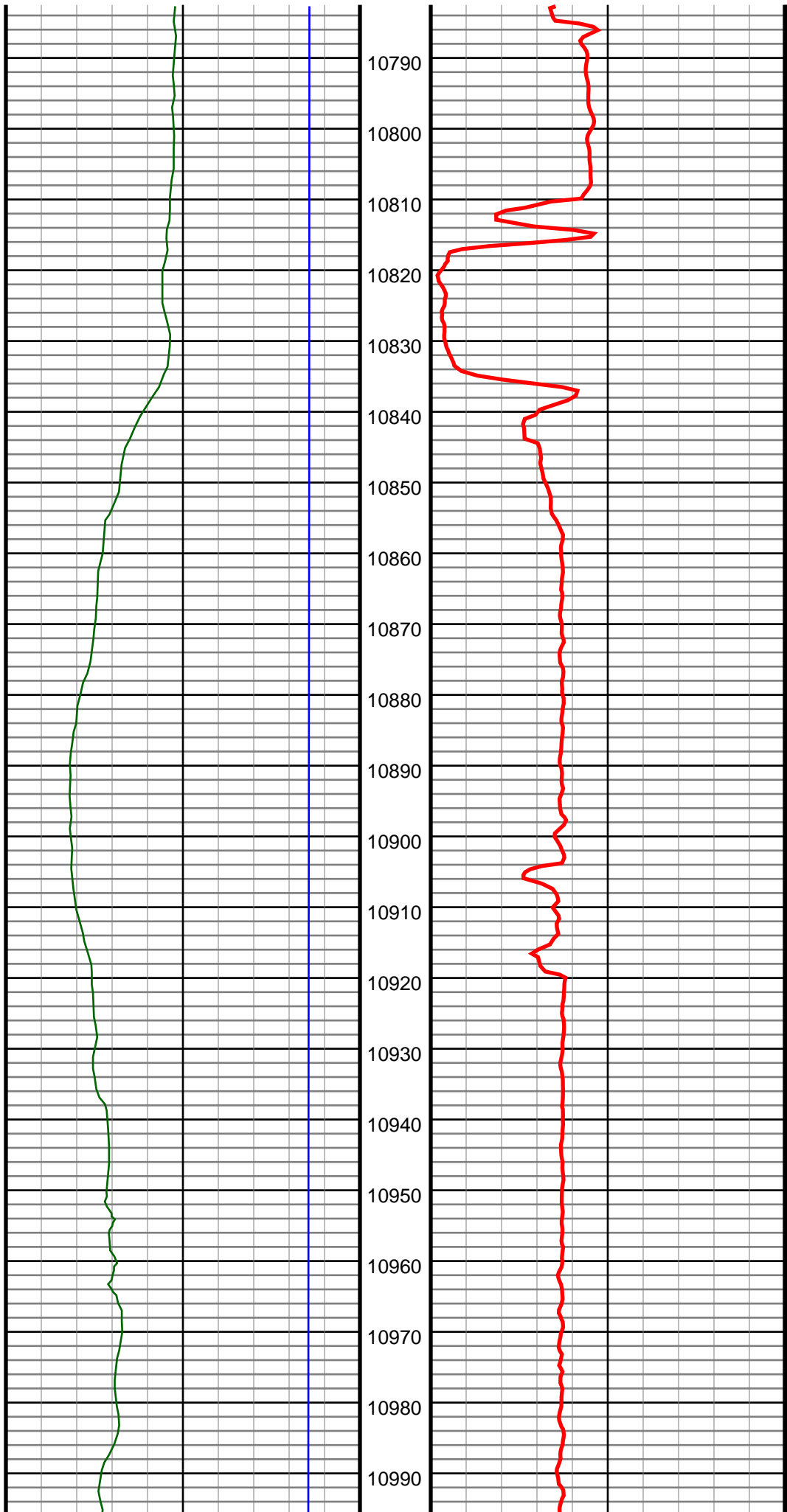
#125 MD(10567.00) Inc(90.8) Azm(359.7) TVD(7031.27)  
VS(3326.39) NS(3317.35) EW(254.84) TEMP(0.0)



#126 MD(10661.00) Inc(91.1) Azm(359.0) TVD(7029.71)  
VS(3420.16) NS(3411.33) EW(253.77) TEMP(0.0)

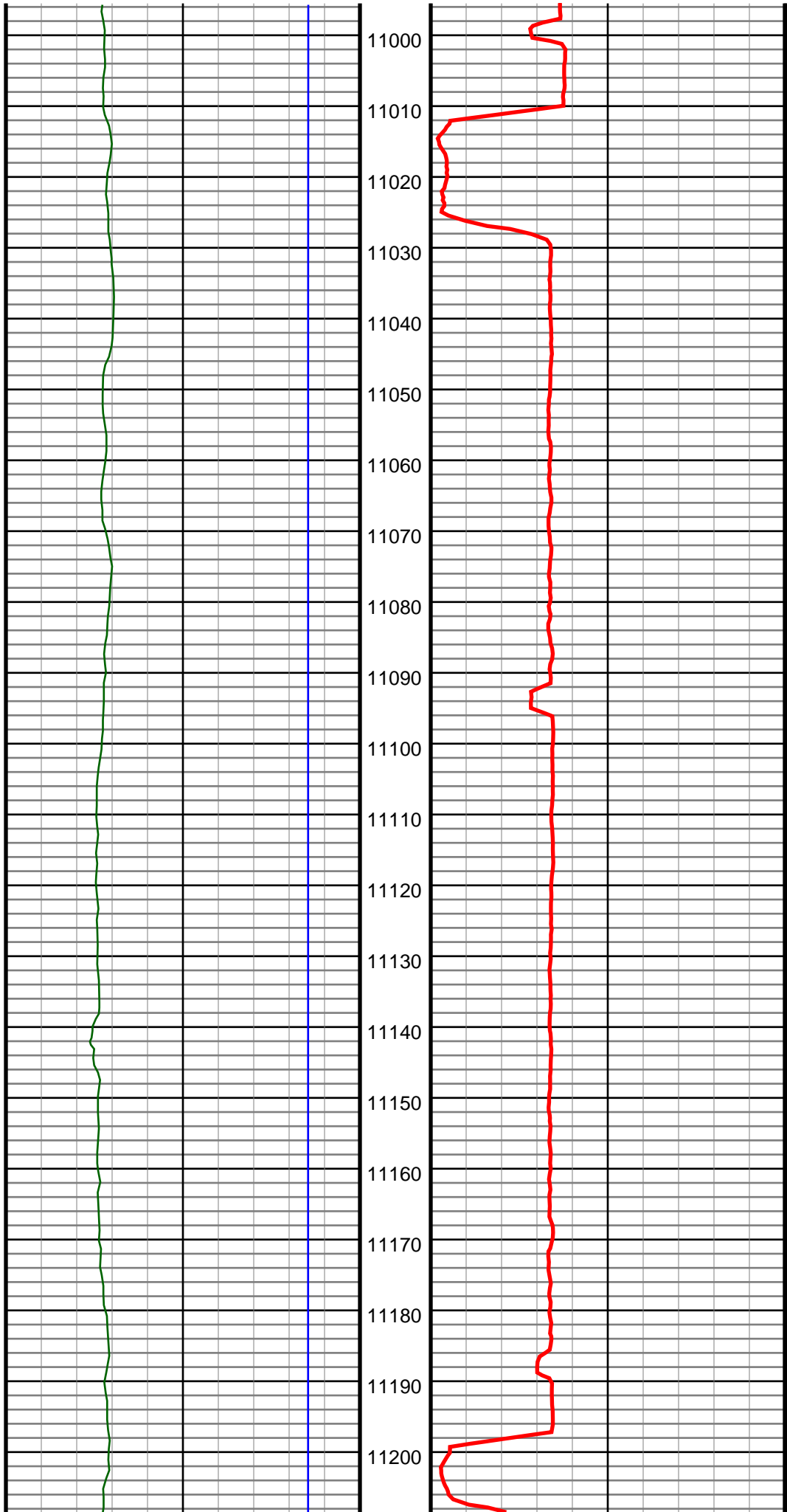
#127 MD(10755.00) Inc(89.8) Azm(357.4) TVD(7028.97)  
VS(3513.80) NS(3505.27) EW(250.82) TEMP(0.0)





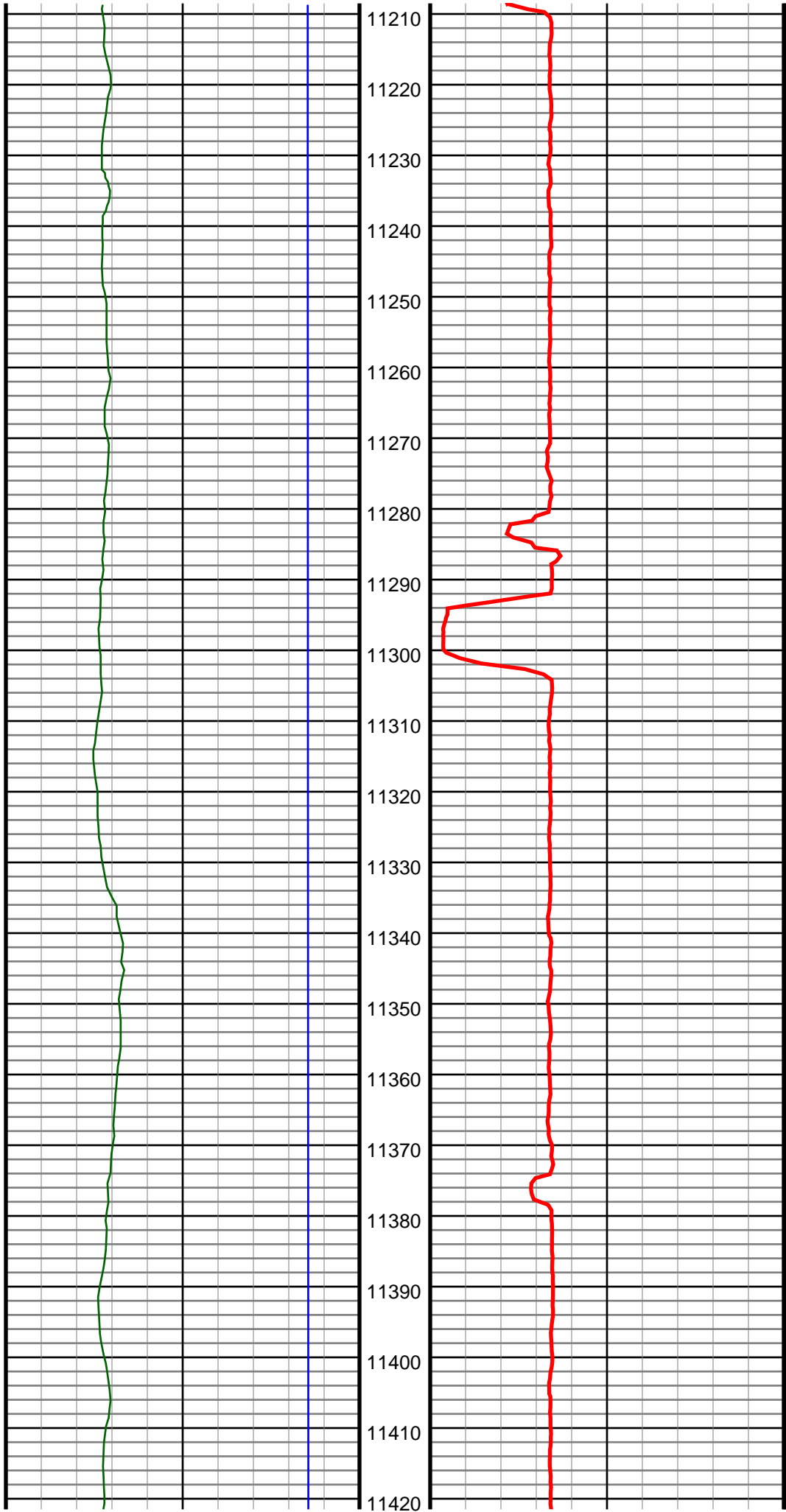
#128 MD(10850.00) Inc(91.4) Azm(0.4) TVD(7027.98)  
VS(3608.51) NS(3600.24) EW(249.00) TEMP(0.0)

#129 MD(10944.00) Inc(91.5) Azm(359.7) TVD(7025.60)  
VS(3702.34) NS(3694.20) EW(249.08) TEMP(0.0)



#130 MD(11038.00) Inc(89.9) Azm(0.1) TVD(7024.45)  
VS(3796.18) NS(3788.19) EW(248.91) TEMP(0.0)

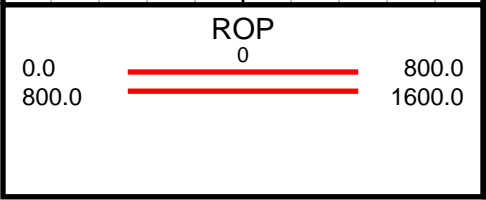
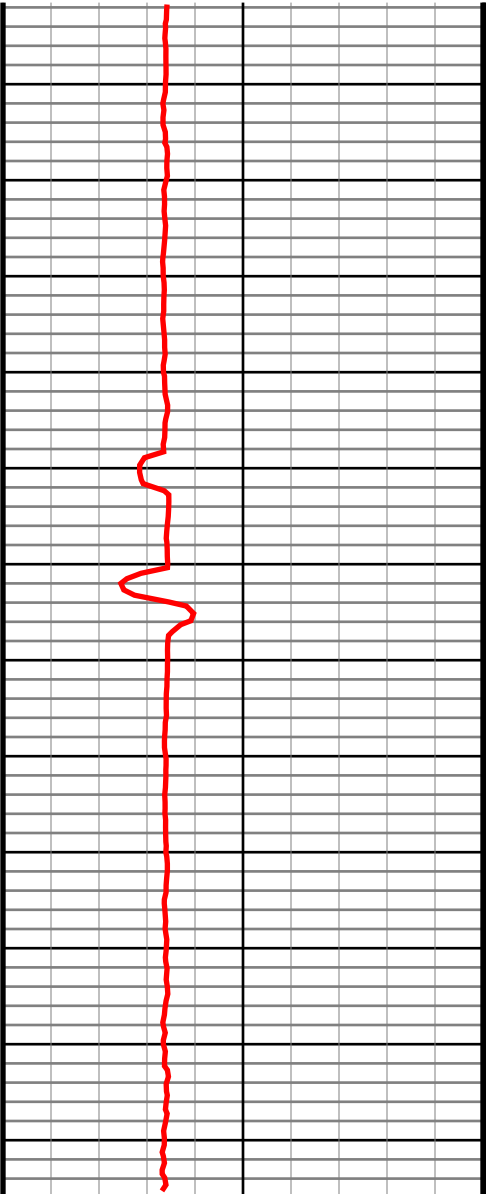
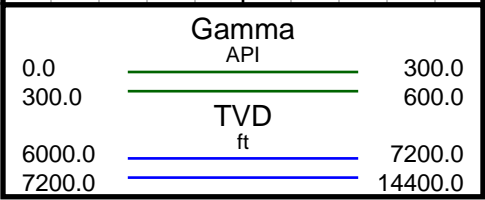
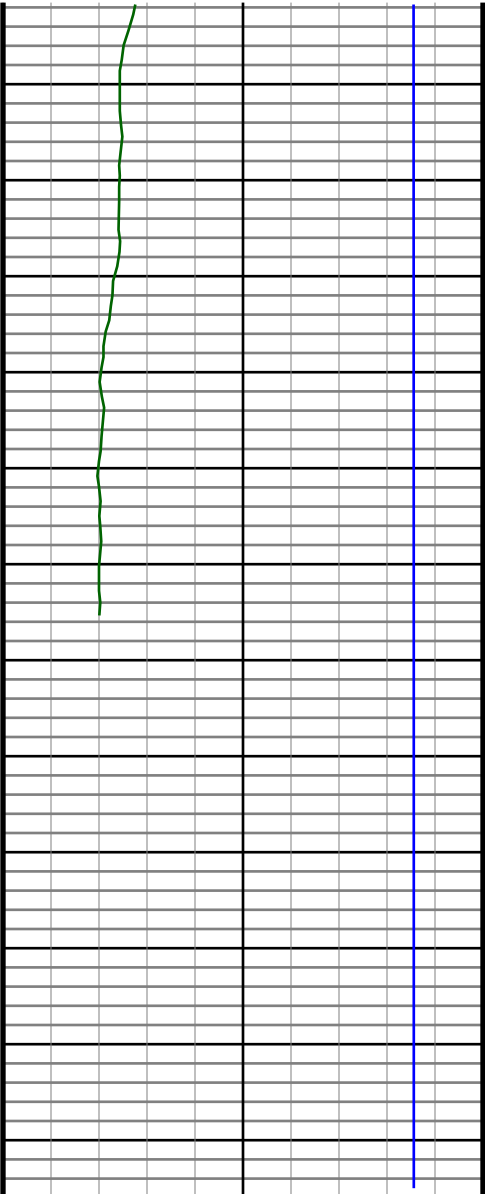
#131 MD(11132.00) Inc(90.2) Azm(359.9) TVD(7024.37)  
VS(3890.03) NS(3882.19) EW(248.91) TEMP(0.0)



#132 MD(11227.00) Inc(89.9) Azm(359.7) TVD(7024.28)  
VS(3984.86) NS(3977.19) EW(248.58) TEMP(0.0)

#133 MD(11320.00) Inc(89.1) Azm(358.0) TVD(7025.10)  
VS(4077.59) NS(4070.17) EW(246.72) TEMP(0.0)

#134 MD(11414.00) Inc(89.3) Azm(357.6) TVD(7026.41)  
VS(4171.16) NS(4164.09) EW(243.11) TEMP(0.0)



#135 MD(11490.00) Inc(89.9) Azm(356.9) TVD(7026.94)  
VS(4246.75) NS(4240.00) EW(239.46) TEMP(0.0)