



MD
5":100'

Well Name: ARELLANO Q-10-9HC

Rig Id: Frontier 8

County/Parish: Weld

Country: United States

Survey Company: Ensign Directional Services

Job number: 207-F8-42

DIR. DRILLER DAY Kabel Skelton

DIR. DRILLER NIGHT Austin Clark

LWD/MWD DAYS Matt Brokaw

LWD/MWD NIGHTS Tyler Teague

Log measurements: Gamma

Depth measured from: Rig Floor

Maximum temperature:

Depth Date

Start: 13715 ft 6/19/2015

End: 14001 ft 6/20/2015

Casing Depth Size

Surface: 790 9.625

Intermediate: 7342 7

Mud Type:

Density:

Viscosity:

Elevations

KB: 4638.5

GL: 4616

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	8.75	53.25	48.25	800	7355	4/11/2015	4/13/2015
2	6.125	59.48	54.48	7355	13715	6/15/2015	6/19/2015
3	6.125	59.48	54.48	13715	14001	6/19/2015	6/20/2015
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Ensign Directional Services uses its best efforts to provide its customers with accurate information and interpretations in

ROP
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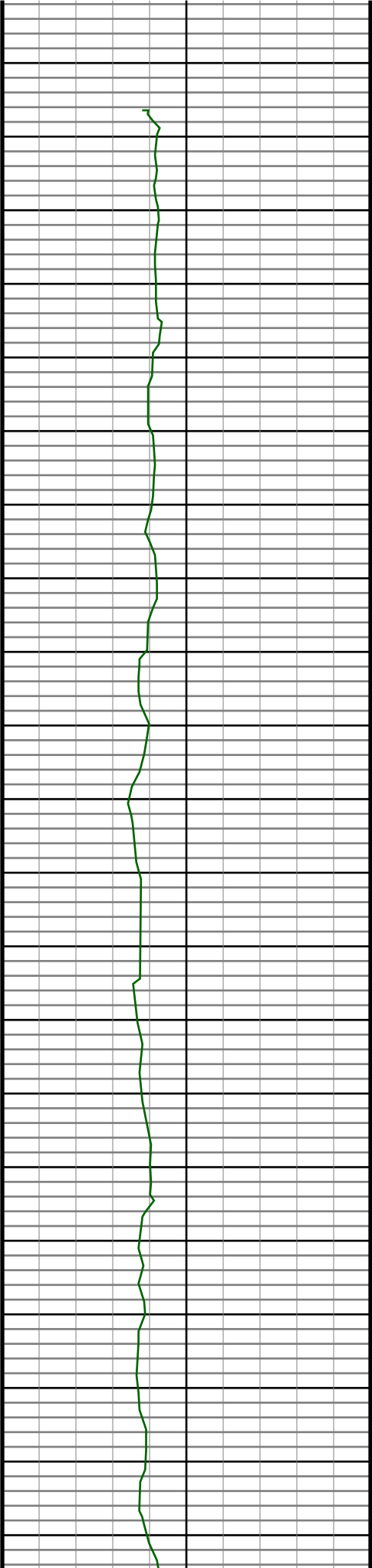
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Gamma API

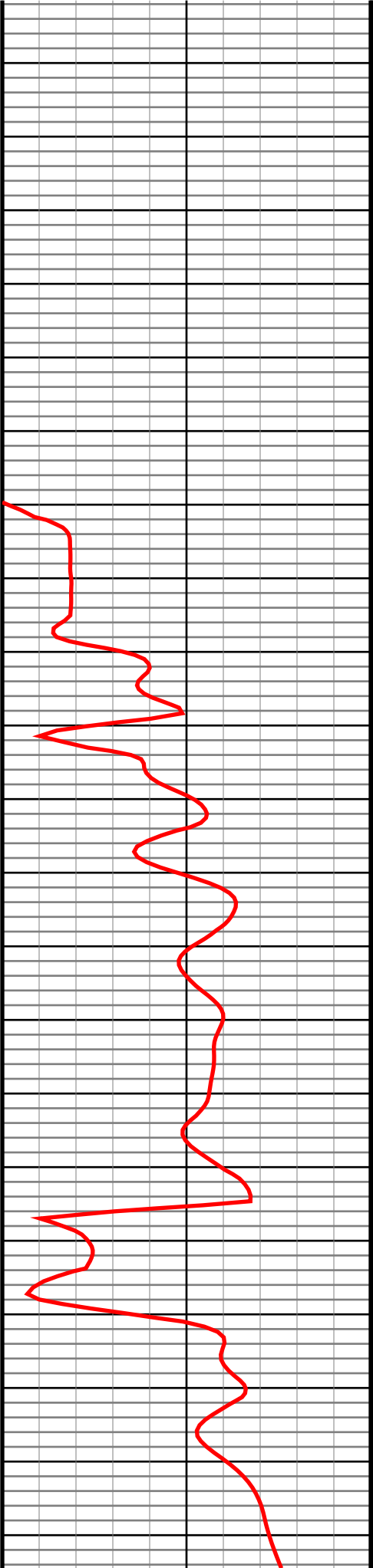
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300.0		600.0

TVD
ft

6000.0	ft	7200.0
7200.0		14400.0



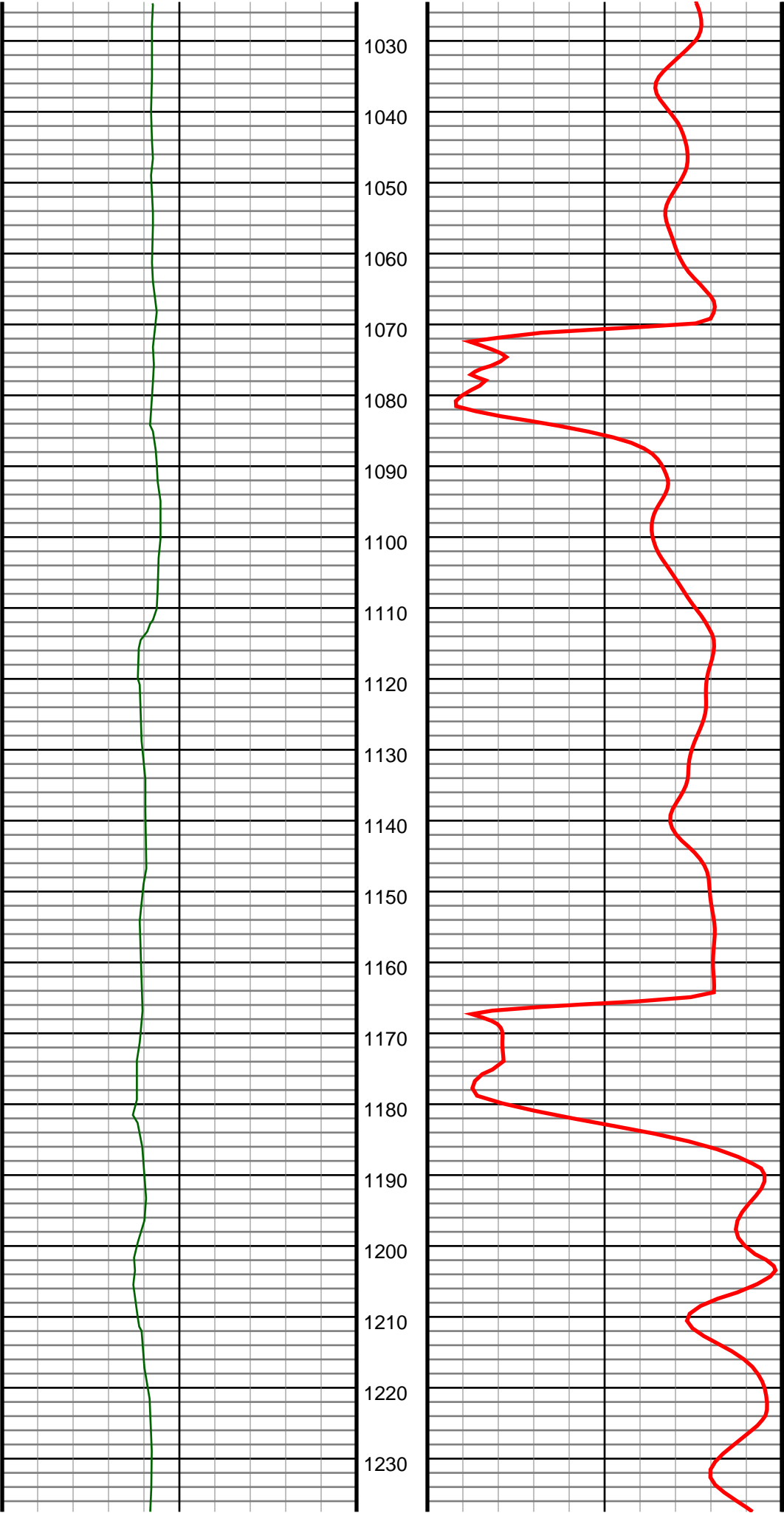
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#8 MD(831.00) Inc(0.7) Azm(39.6) TVD(830.99)
VS(-3.52) NS(2.92) EW(3.24) TEMP(0.0)

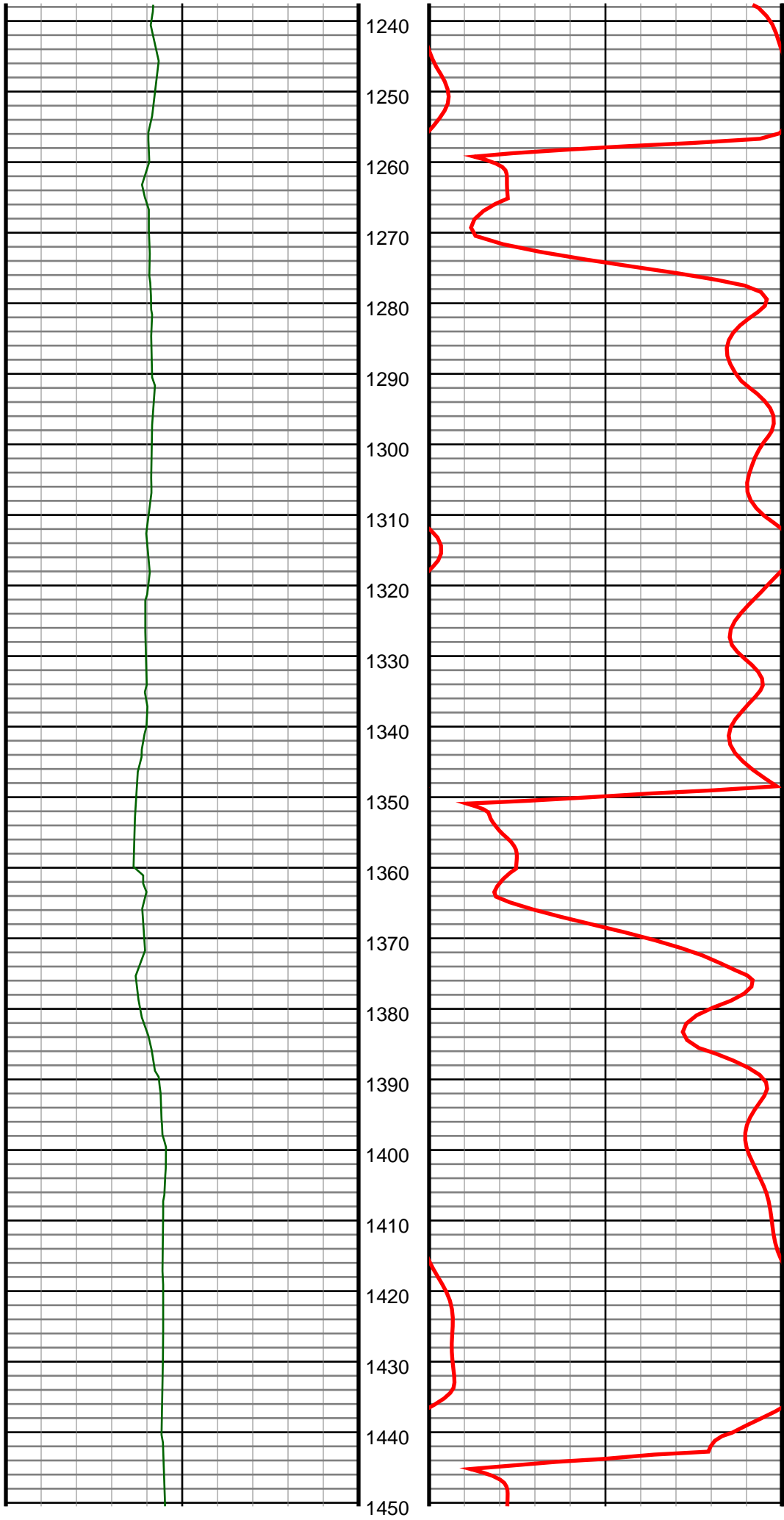
#9 MD(926.00) Inc(2.5) Azm(151.9) TVD(925.96)
VS(-4.72) NS(1.54) EW(4.58) TEMP(0.0)

#10 MD(1021.00) Inc(4.0) Azm(155.6) TVD(1020.80)
VS(-6.54) NS(-3.31) EW(6.93) TEMP(0.0)



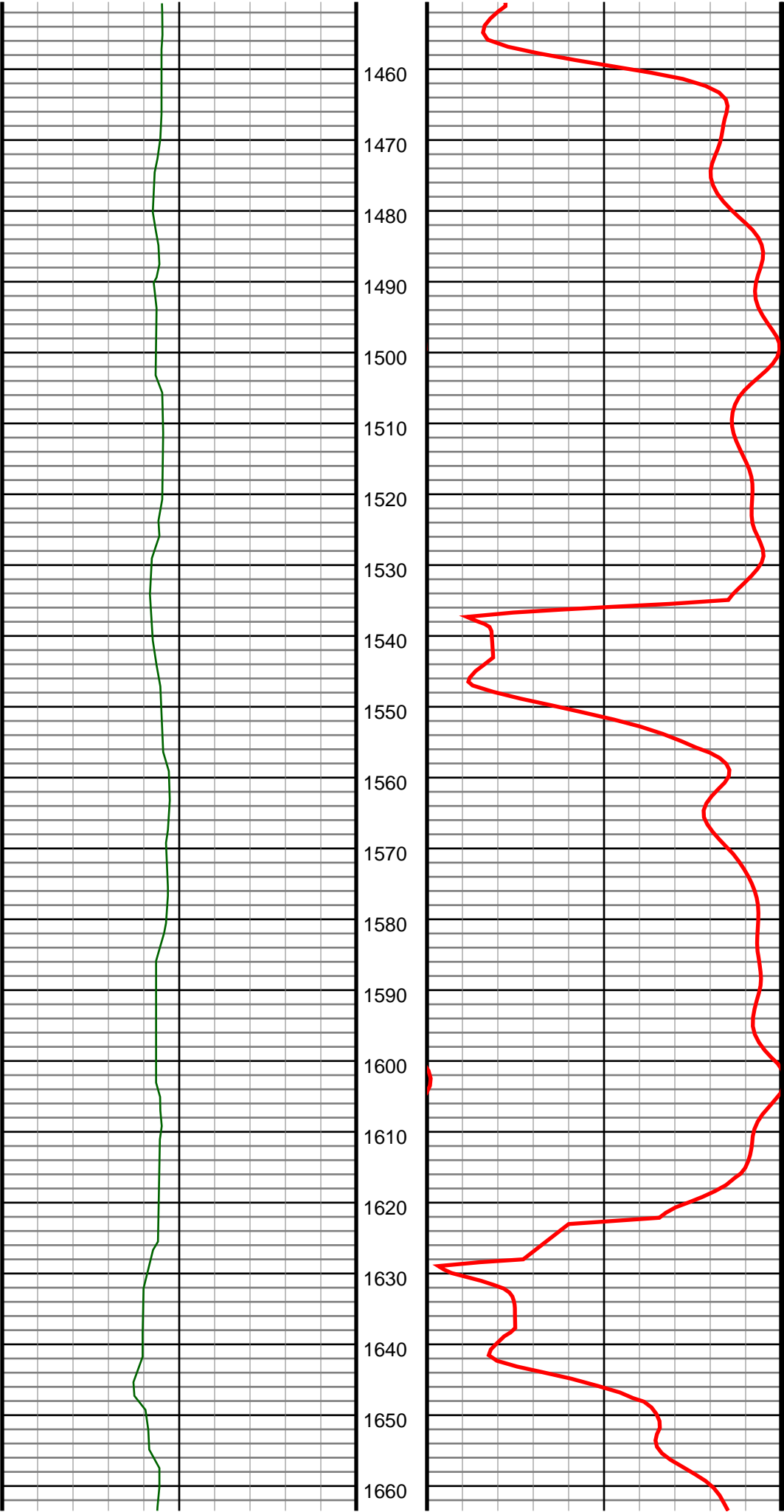
#11 MD(1117.00) Inc(5.1) Azm(160.2) TVD(1116.50)
VS(-8.61) NS(-10.37) EW(9.76) TEMP(0.0)

#12 MD(1209.00) Inc(6.6) Azm(157.0) TVD(1208.02)
VS(-11.13) NS(-19.09) EW(13.21) TEMP(0.0)



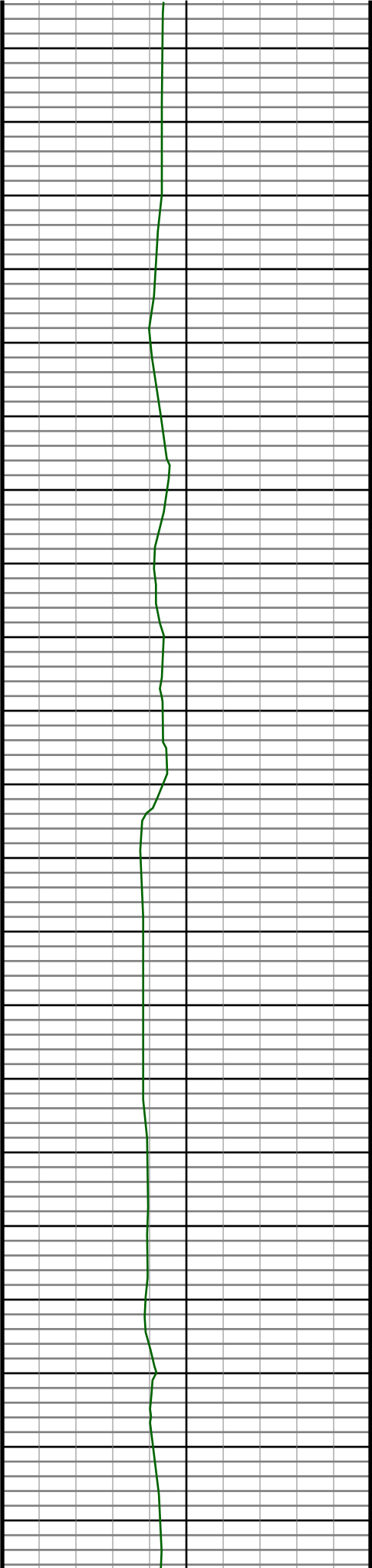
#13 MD(1301.00) Inc(7.4) Azm(162.3) TVD(1299.33)
VS(-13.88) NS(-29.60) EW(17.07) TEMP(0.0)

#14 MD(1393.00) Inc(8.5) Azm(158.6) TVD(1390.44)
VS(-16.88) NS(-41.57) EW(21.36) TEMP(0.0)

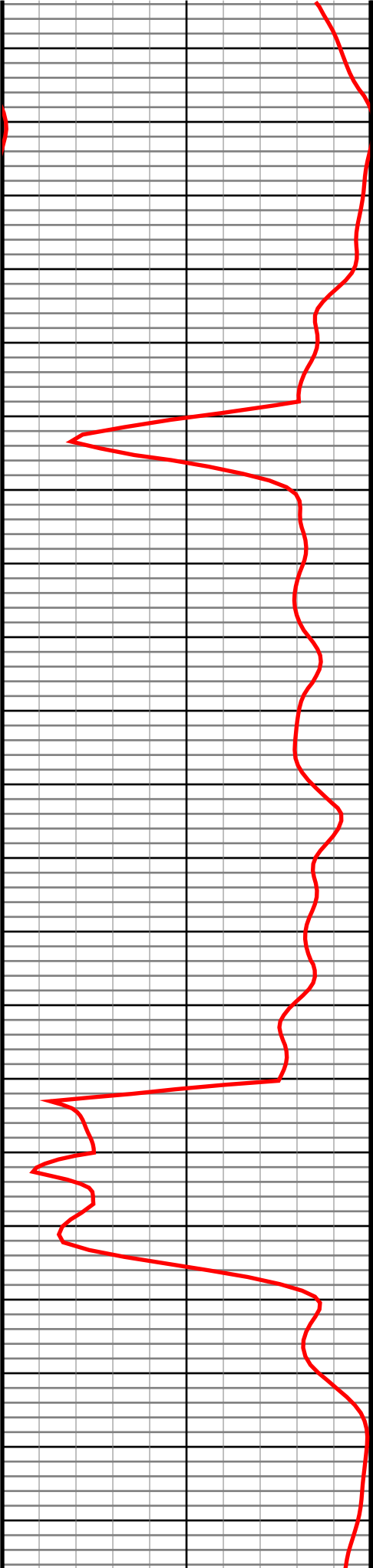


#15 MD(1485.00) Inc(8.7) Azm(154.5) TVD(1481.41)
VS(-21.00) NS(-54.18) EW(26.83) TEMP(0.0)

#16 MD(1577.00) Inc(9.1) Azm(154.9) TVD(1572.30)
VS(-25.70) NS(-67.05) EW(32.91) TEMP(0.0)



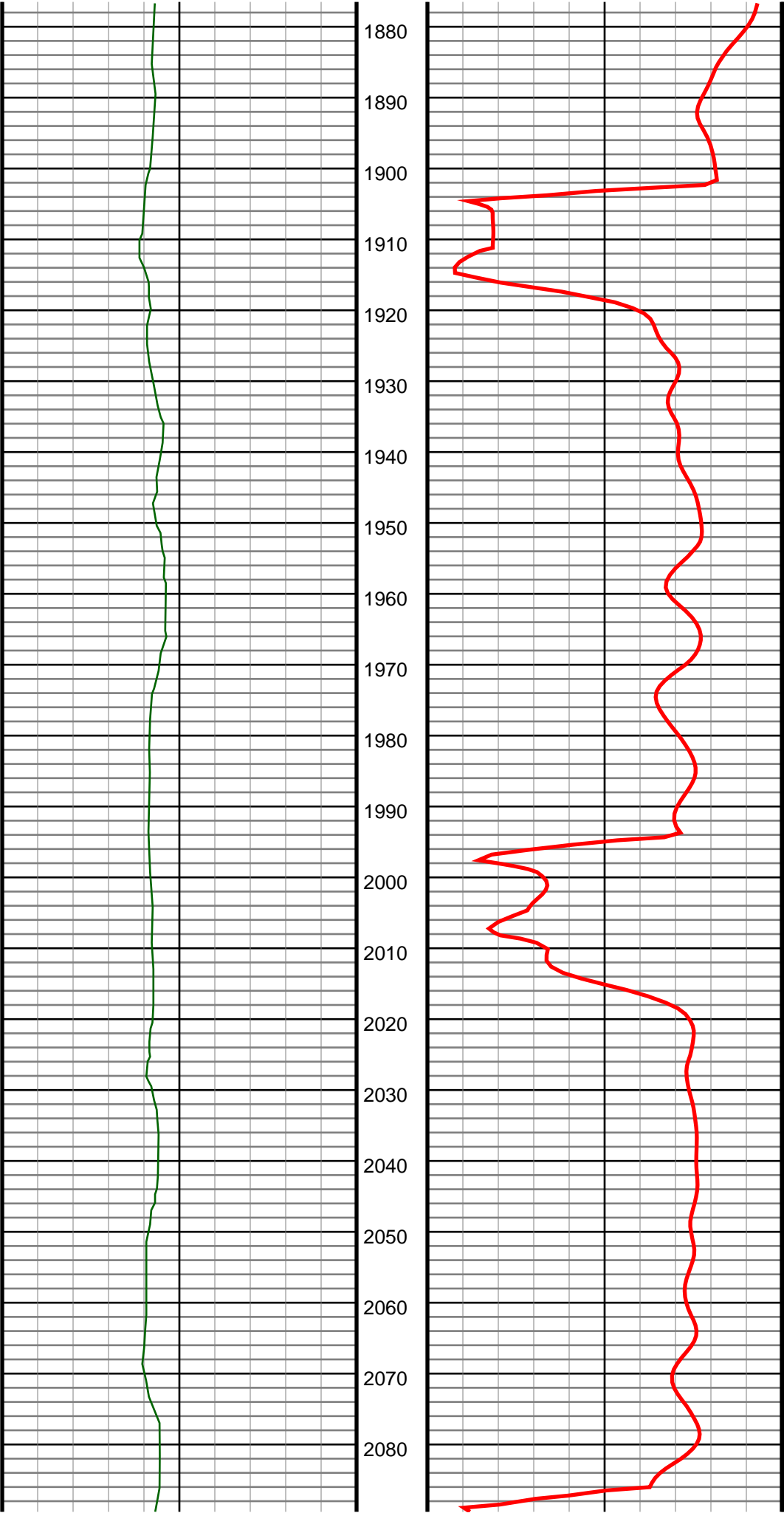
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#17 MD(1669.00) Inc(9.4) Azm(158.4) TVD(1663.11)
VS(-30.10) NS(-80.63) EW(38.77) TEMP(0.0)

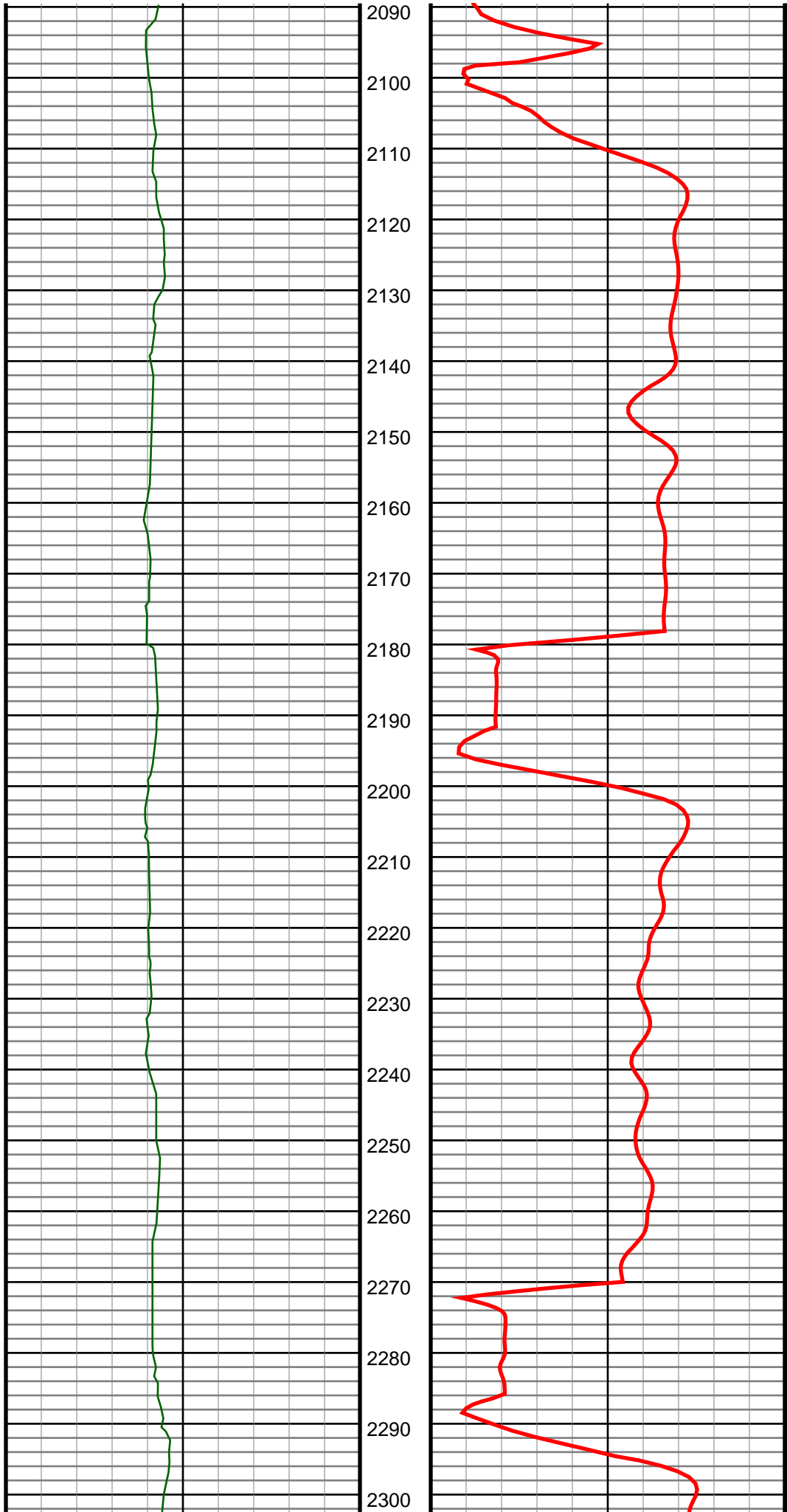
#18 MD(1761.00) Inc(7.8) Azm(150.1) TVD(1754.07)
VS(-34.64) NS(-93.03) EW(44.64) TEMP(0.0)

#19 MD(1853.00) Inc(9.4) Azm(158.6) TVD(1845.04)
VS(-39.16) NS(-105.43) EW(50.50) TEMP(0.0)



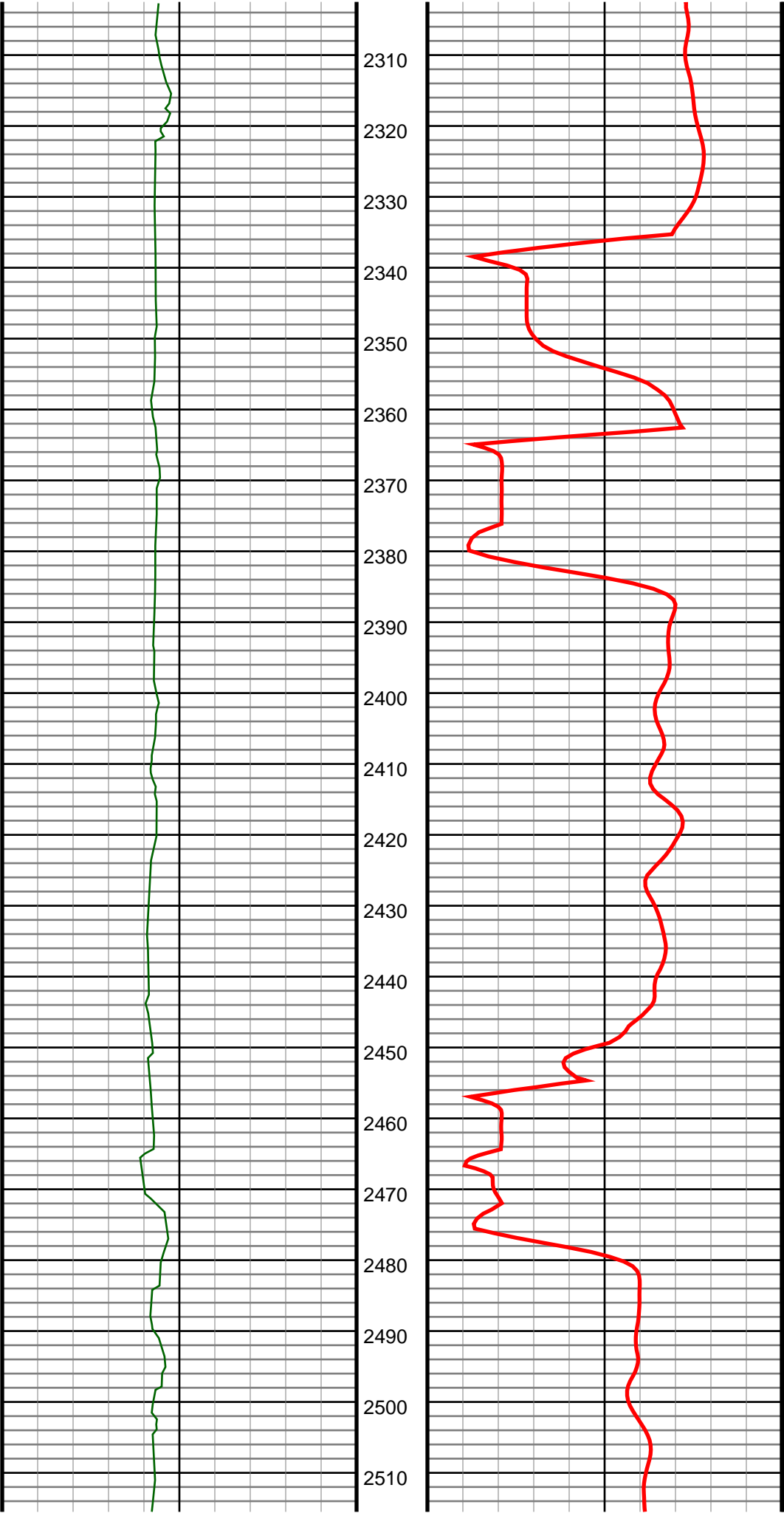
#20 MD(1946.00) Inc(9.5) Azm(160.3) TVD(1936.78)
VS(-42.99) NS(-119.73) EW(55.86) TEMP(0.0)

#21 MD(2038.00) Inc(10.3) Azm(154.4) TVD(2027.41)
VS(-47.54) NS(-134.30) EW(61.97) TEMP(0.0)



#22 MD(2130.00) Inc(9.2) Azm(147.5) TVD(2118.08)
VS(-53.58) NS(-147.92) EW(69.48) TEMP(0.0)

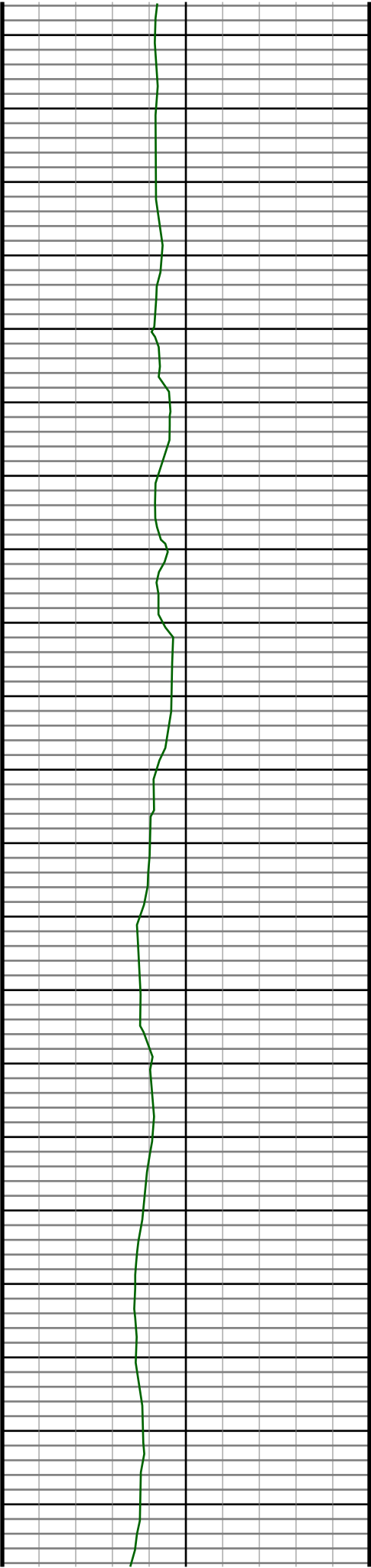
#23 MD(2222.00) Inc(9.9) Azm(146.3) TVD(2208.81)
VS(-60.53) NS(-160.70) EW(77.82) TEMP(0.0)



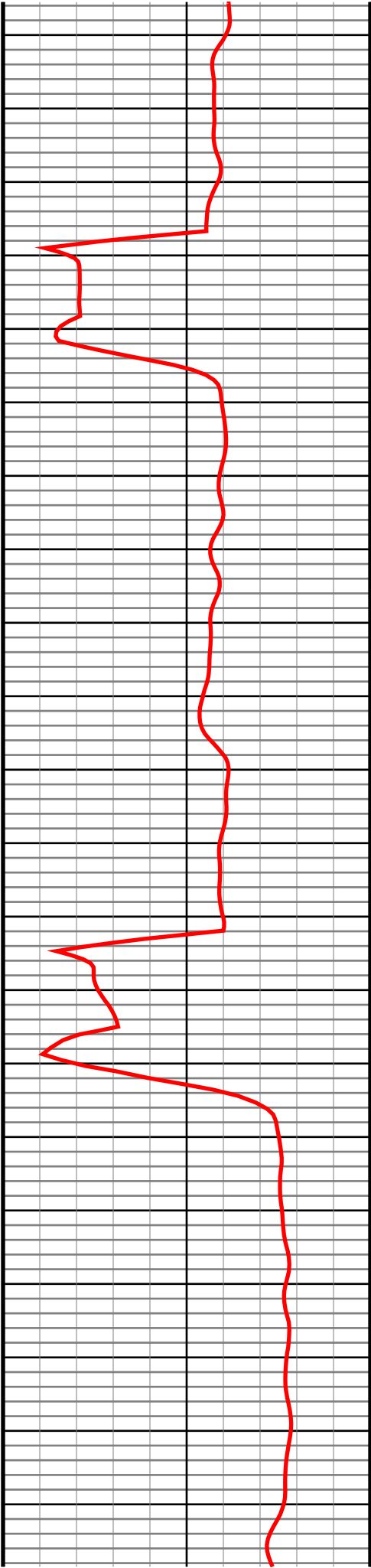
#24 MD(2314.00) Inc(9.8) Azm(152.4) TVD(2299.45)
VS(-67.09) NS(-174.22) EW(85.83) TEMP(0.0)

#25 MD(2406.00) Inc(9.8) Azm(151.4) TVD(2390.11)
VS(-72.97) NS(-188.03) EW(93.21) TEMP(0.0)

#26 MD(2498.00) Inc(8.0) Azm(160.7) TVD(2481.00)
VS(-77.45) NS(-200.95) EW(99.07) TEMP(0.0)

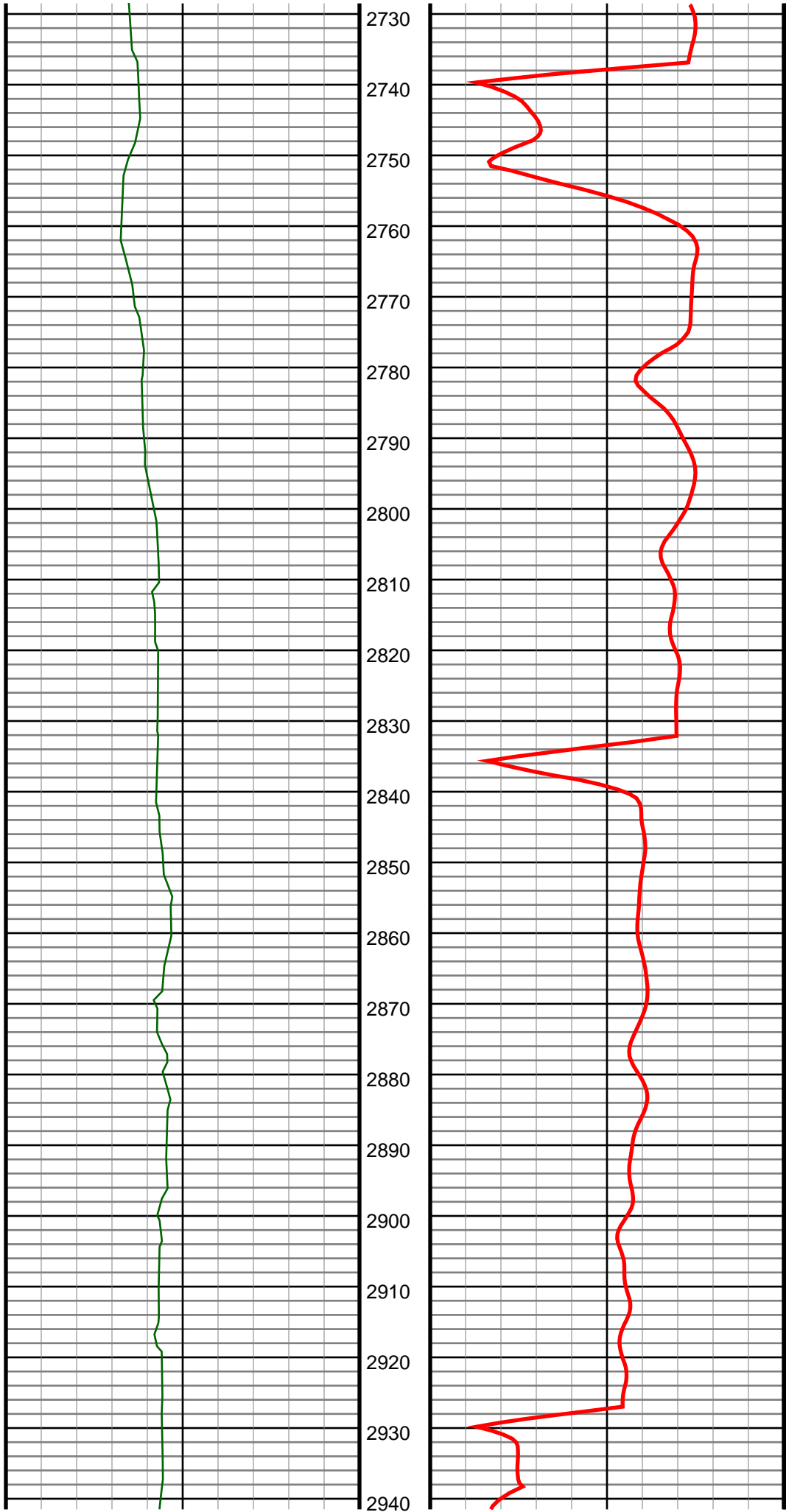


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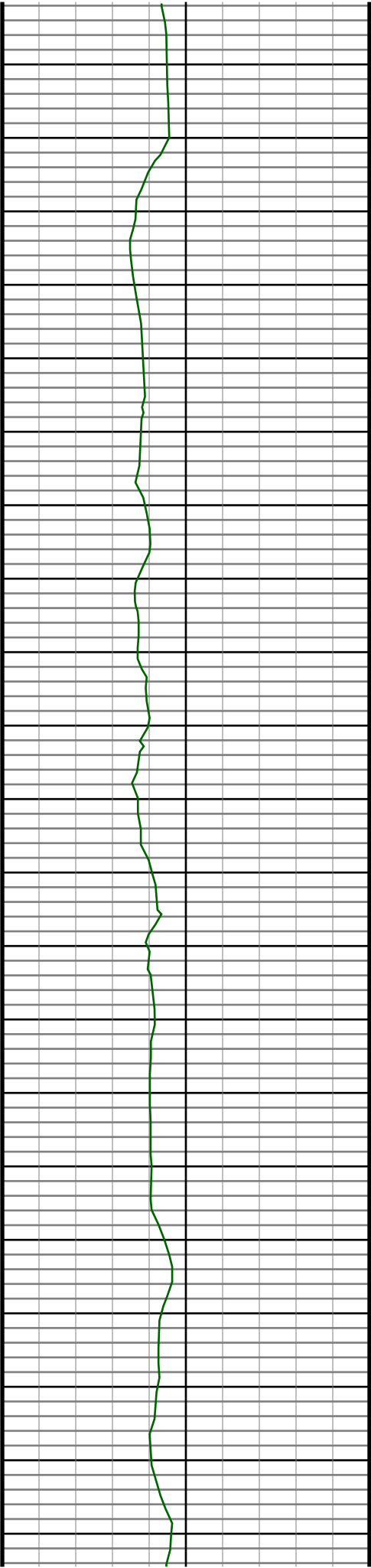
#27 MD(2593.00) Inc(8.7) Azm(158.6) TVD(2575.00)
VS(-80.87) NS(-213.88) EW(103.88) TEMP(0.0)

#28 MD(2689.00) Inc(9.0) Azm(168.6) TVD(2669.86)
VS(-83.50) NS(-228.00) EW(108.01) TEMP(0.0)

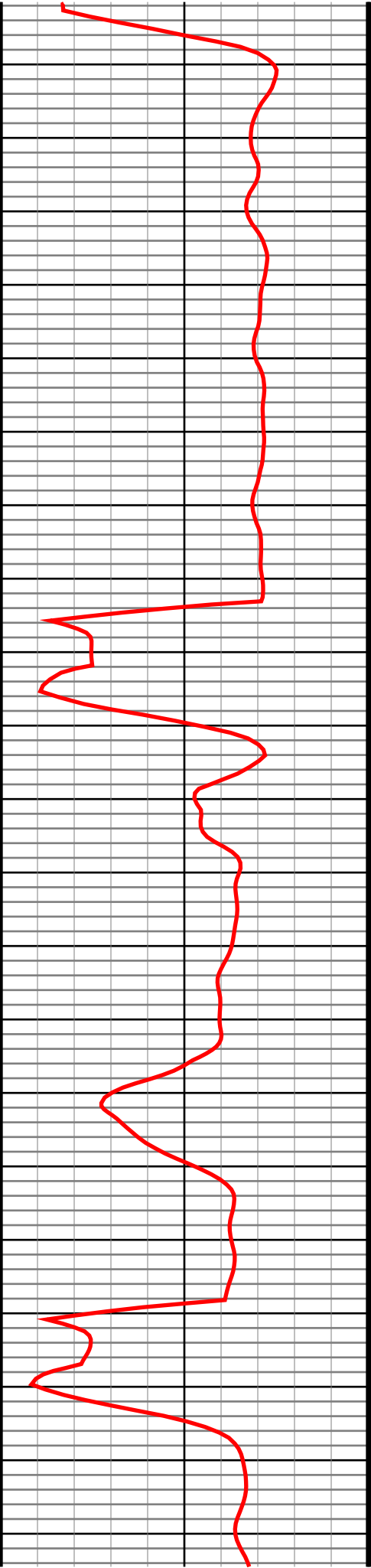


#29 MD(2784.00) Inc(10.9) Azm(171.4) TVD(2763.43)
VS(-84.61) NS(-244.17) EW(110.82) TEMP(0.0)

#30 MD(2879.00) Inc(8.8) Azm(166.5) TVD(2857.02)
VS(-85.96) NS(-260.12) EW(113.86) TEMP(0.0)

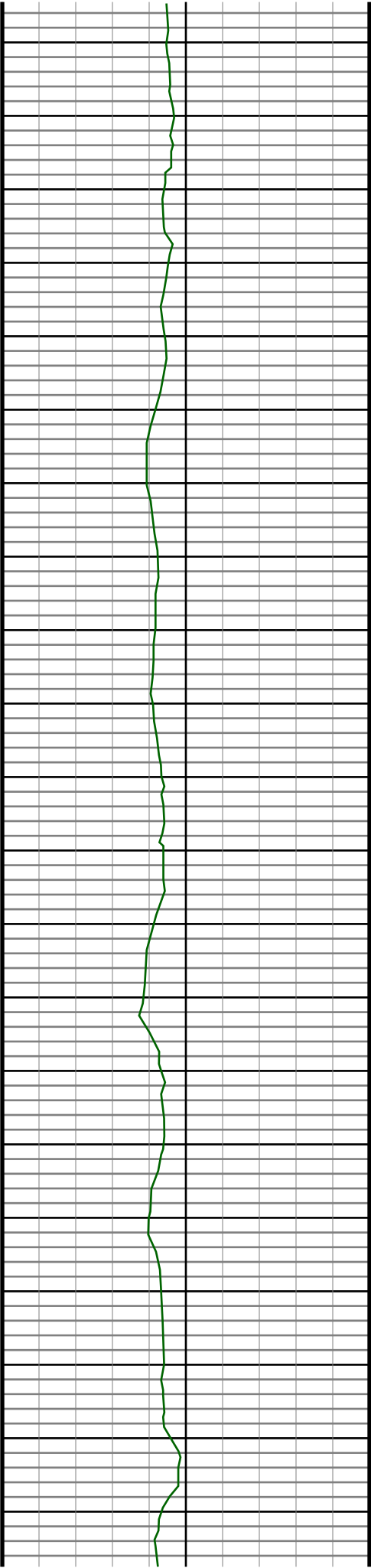


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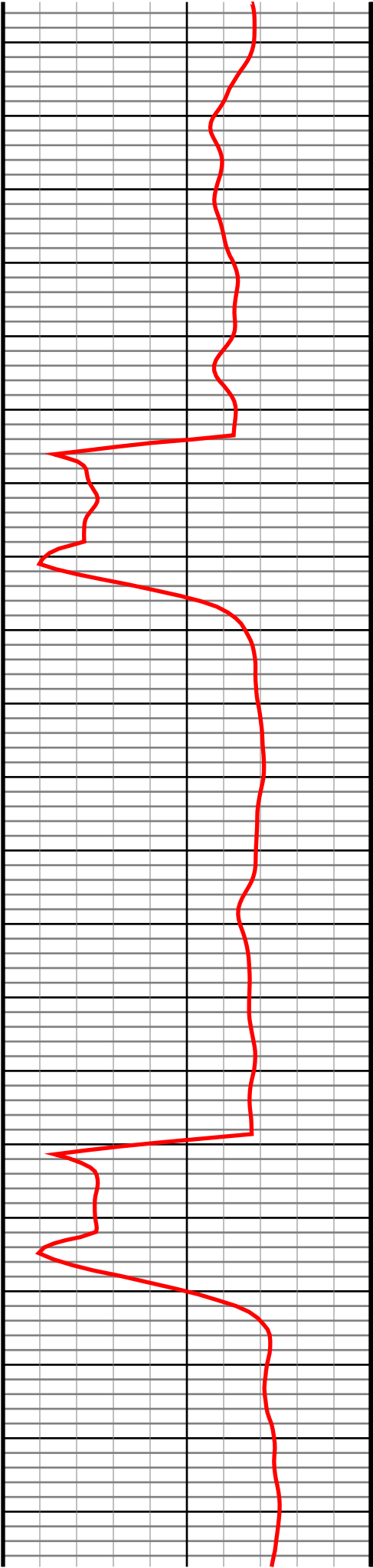


#31 MD(2974.00) Inc(9.6) Azm(163.2) TVD(2950.80)
VS(-88.38) NS(-274.77) EW(117.85) TEMP(0.0)

#32 MD(3069.00) Inc(10.6) Azm(159.1) TVD(3044.33)
VS(-92.11) NS(-290.51) EW(123.26) TEMP(0.0)



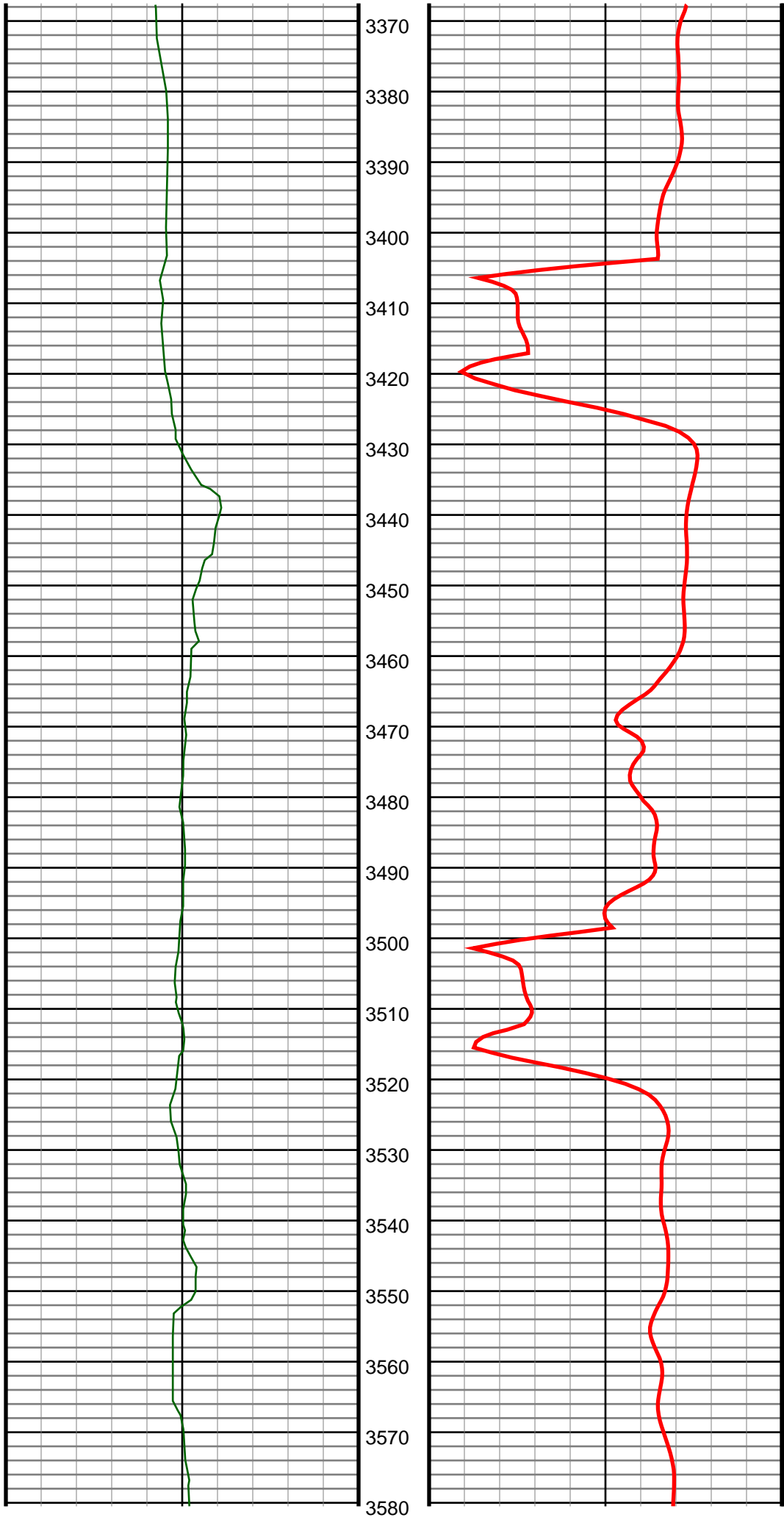
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#33 MD(3164.00) Inc(9.9) Azm(157.0) TVD(3137.81)
VS(-96.74) NS(-306.19) EW(129.56) TEMP(0.0)

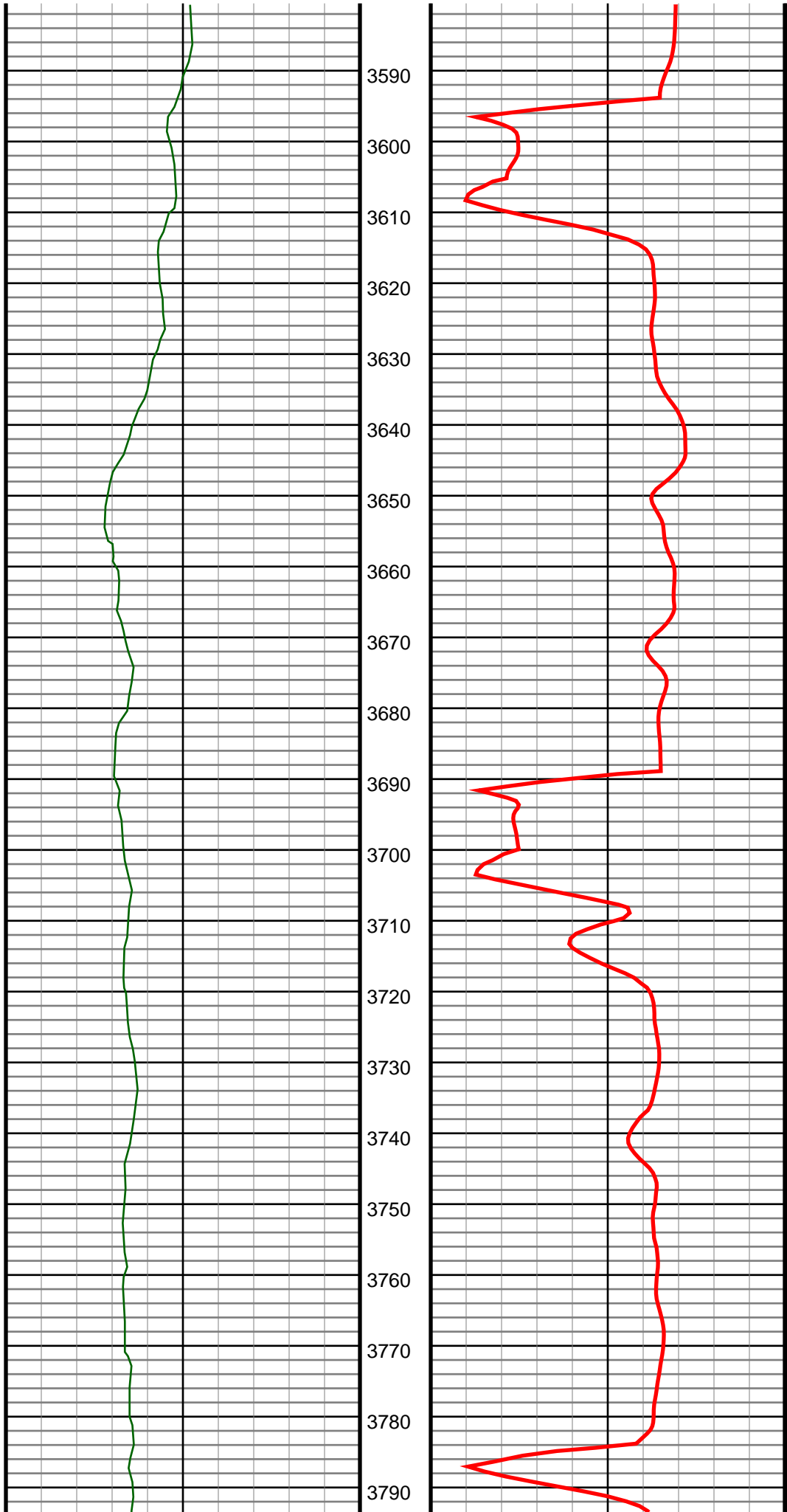
#34 MD(3260.00) Inc(10.6) Azm(155.1) TVD(3232.28)
VS(-102.01) NS(-321.80) EW(136.51) TEMP(0.0)

#35 MD(3355.00) Inc(10.1) Azm(158.1) TVD(3325.73)
VS(-107.11) NS(-337.45) EW(143.29) TEMP(0.0)



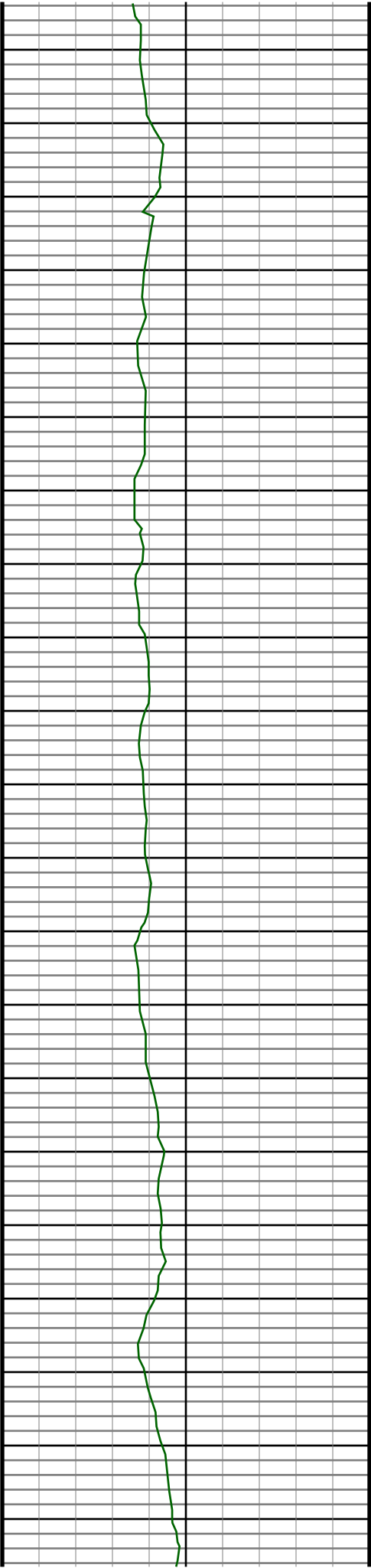
#36 MD(3450.00) Inc(9.8) Azm(161.9) TVD(3419.31)
VS(-111.08) NS(-352.87) EW(148.91) TEMP(0.0)

#37 MD(3545.00) Inc(9.8) Azm(162.3) TVD(3512.92)
VS(-114.41) NS(-368.25) EW(153.88) TEMP(0.0)

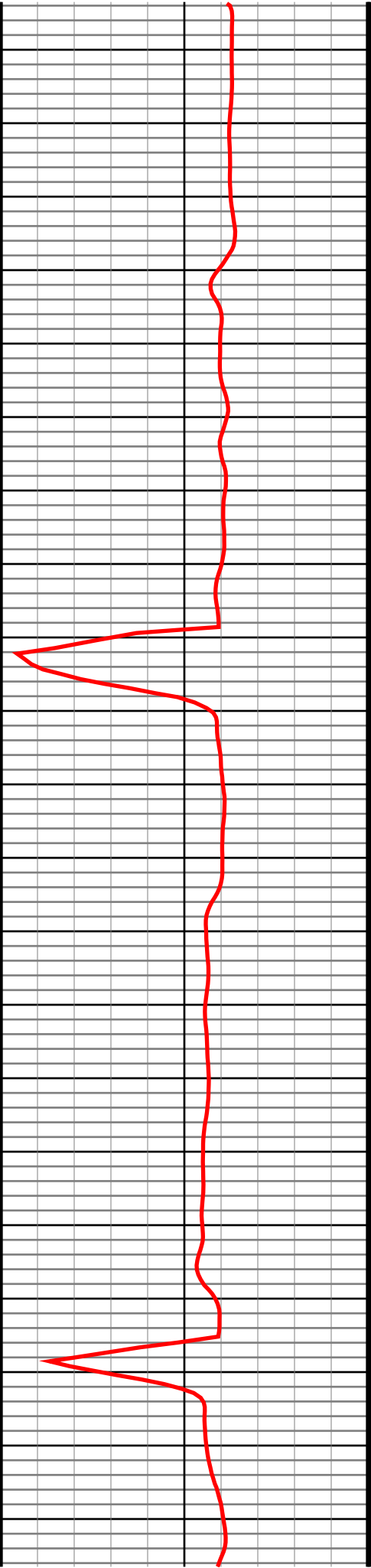


#38 MD(3640.00) Inc(10.6) Azm(160.5) TVD(3606.42)
VS(-118.09) NS(-384.19) EW(159.26) TEMP(0.0)

#39 MD(3735.00) Inc(11.9) Azm(165.8) TVD(3699.59)
VS(-121.52) NS(-401.93) EW(164.58) TEMP(0.0)

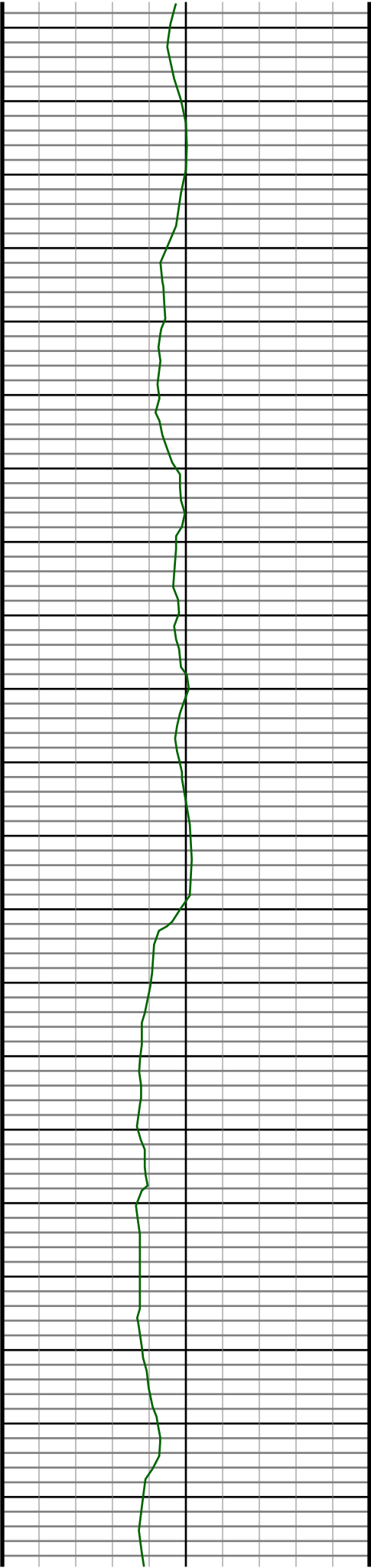


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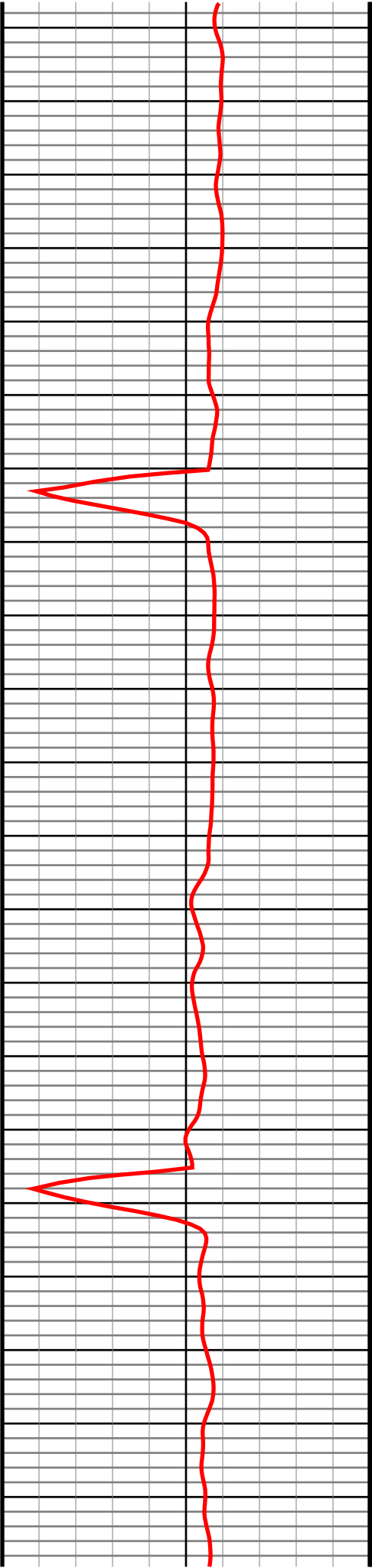


#40 MD(3831.00) Inc(12.0) Azm(166.1) TVD(3793.51)
VS(-124.29) NS(-421.21) EW(169.40) TEMP(0.0)

#41 MD(3926.00) Inc(12.1) Azm(166.3) TVD(3886.42)
VS(-126.98) NS(-440.47) EW(174.13) TEMP(0.0)



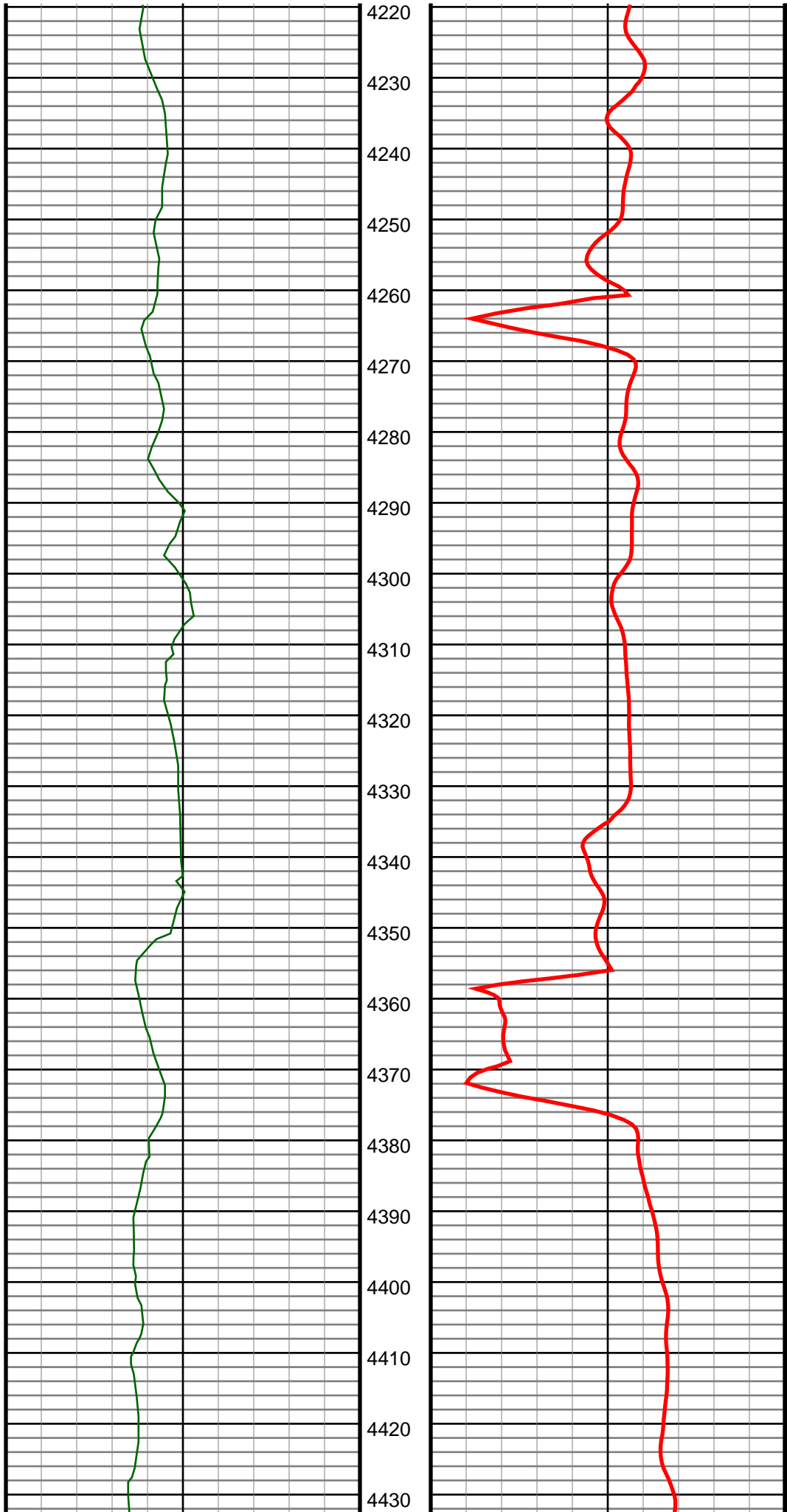
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#42 MD(4021.00) Inc(11.2) Azm(162.1) TVD(3979.46)
VS(-130.21) NS(-458.92) EW(179.33) TEMP(0.0)

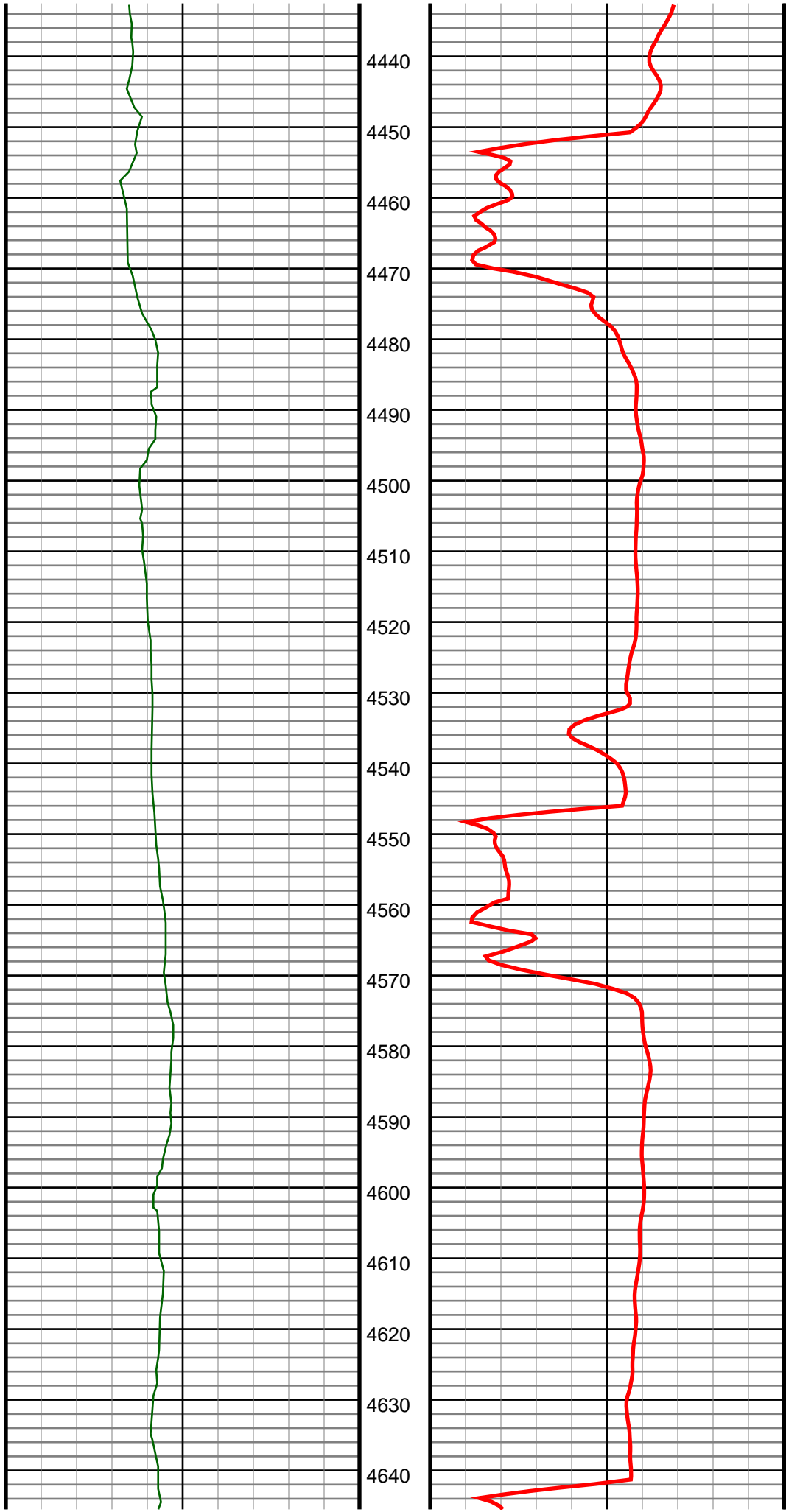
#43 MD(4116.00) Inc(9.9) Azm(156.5) TVD(4072.86)
VS(-134.56) NS(-475.19) EW(185.42) TEMP(0.0)

#44 MD(4211.00) Inc(9.6) Azm(154.7) TVD(4166.49)
VS(-139.63) NS(-489.84) EW(192.06) TEMP(0.0)



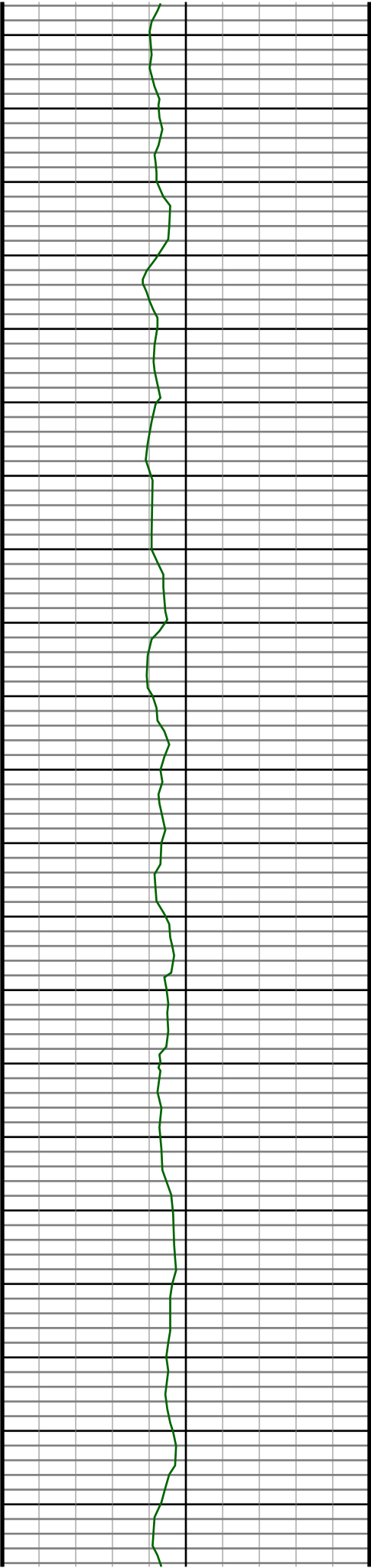
#45 MD(4307.00) Inc(9.0) Azm(150.0) TVD(4261.23)
VS(-145.32) NS(-503.58) EW(199.24) TEMP(0.0)

#46 MD(4402.00) Inc(9.8) Azm(151.6) TVD(4354.95)
VS(-151.42) NS(-517.13) EW(206.80) TEMP(0.0)

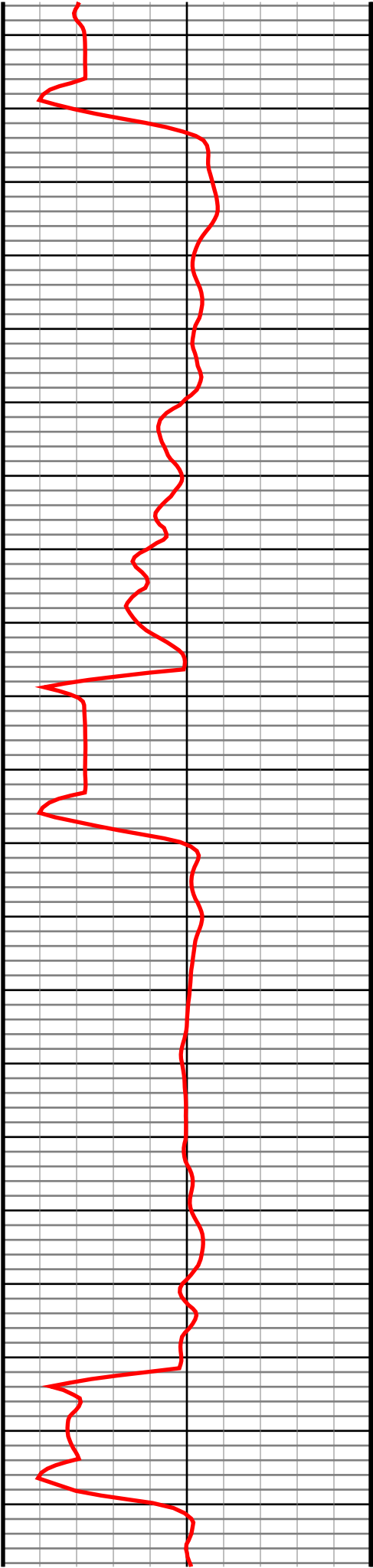


#47 MD(4497.00) Inc(9.4) Azm(157.0) TVD(4448.62)
VS(-156.77) NS(-531.39) EW(213.67) TEMP(0.0)

#48 MD(4592.00) Inc(9.8) Azm(156.6) TVD(4542.29)
VS(-161.45) NS(-545.95) EW(219.92) TEMP(0.0)

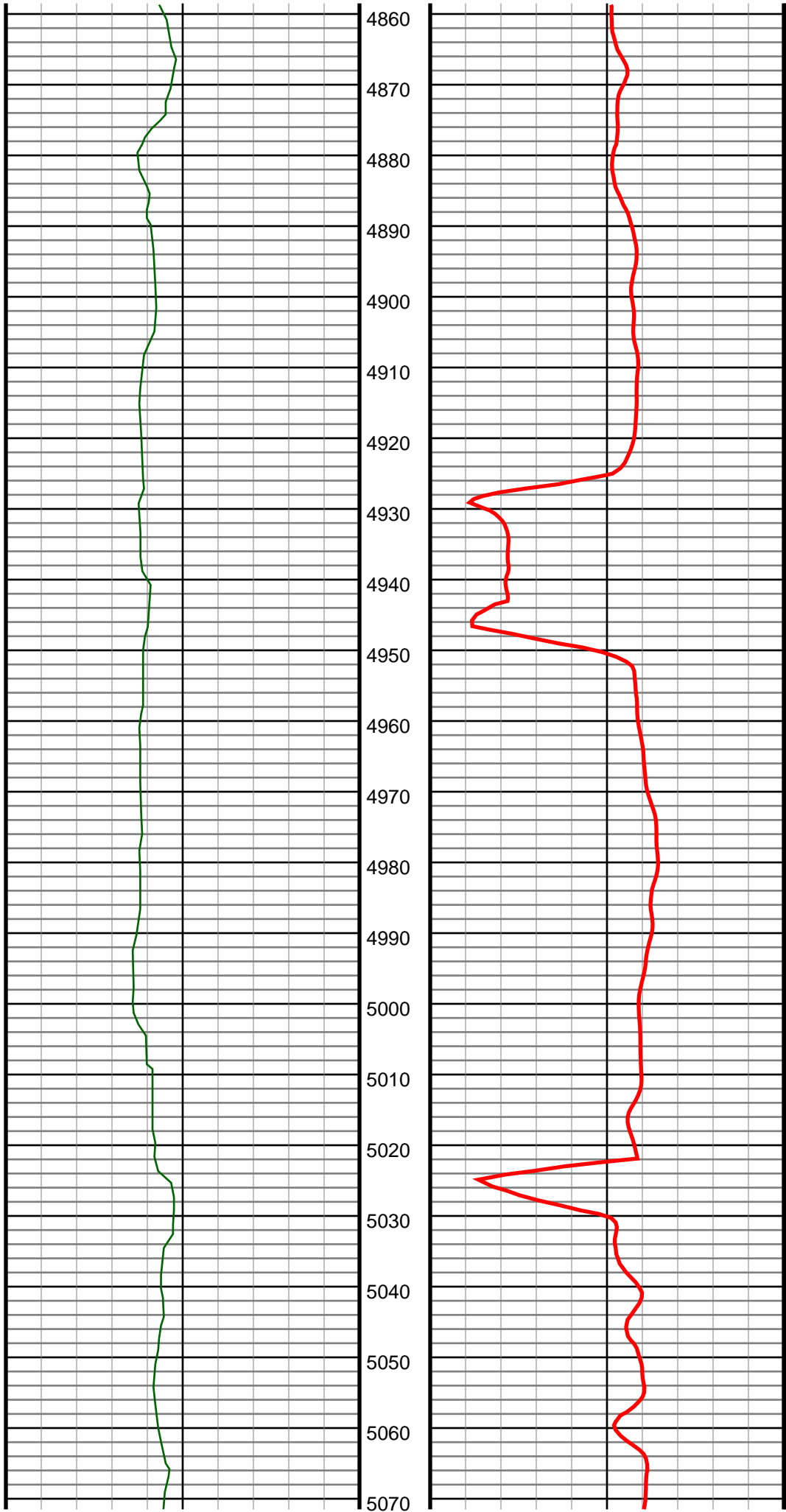


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#49 MD(4687.00) Inc(9.1) Azm(153.0) TVD(4636.00)
VS(-166.55) NS(-560.06) EW(226.54) TEMP(0.0)

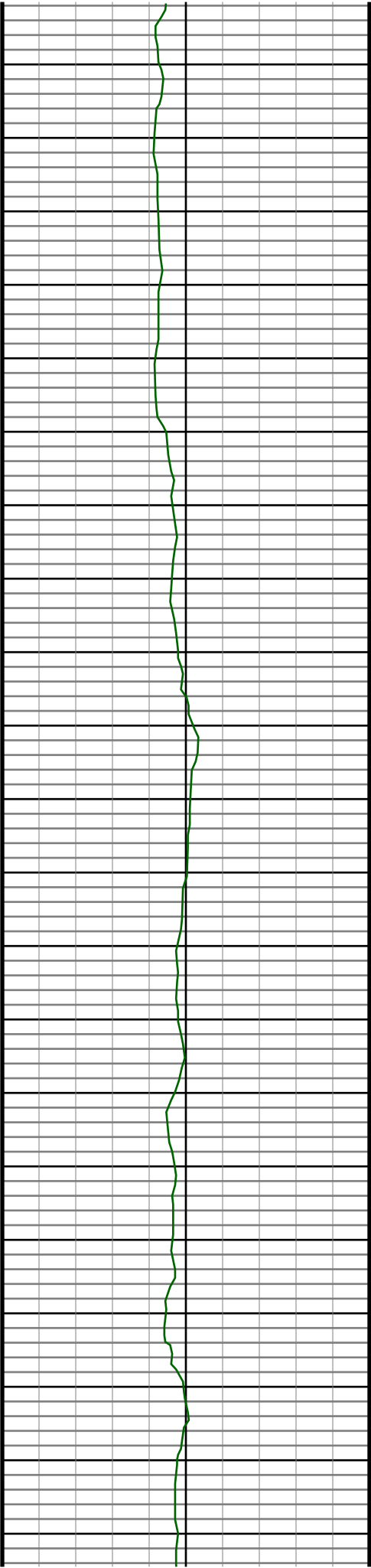
#50 MD(4782.00) Inc(9.3) Azm(161.7) TVD(4729.78)
VS(-170.87) NS(-574.04) EW(232.36) TEMP(0.0)



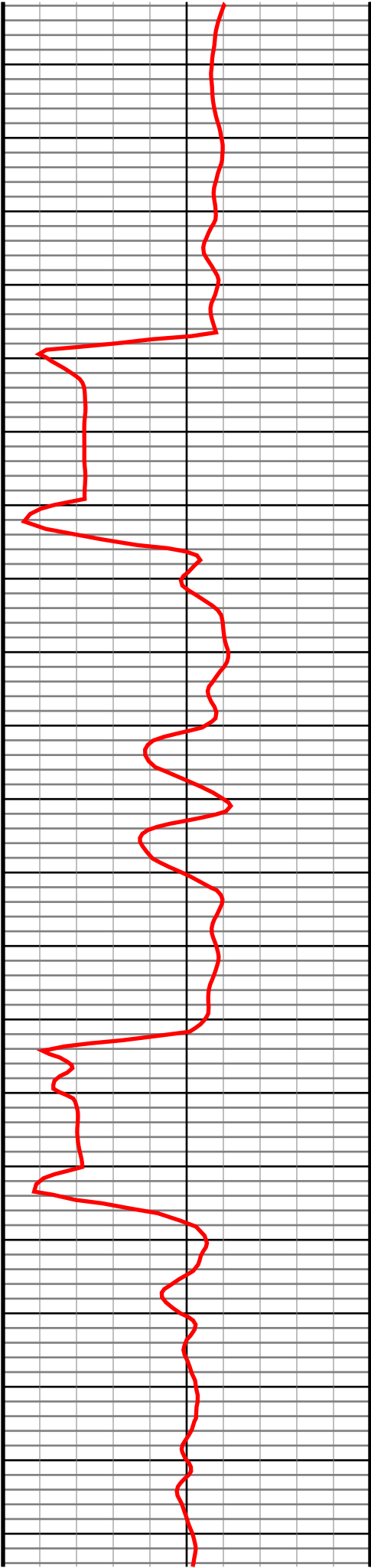
#51 MD(4878.00) Inc(9.9) Azm(159.5) TVD(4824.44)
VS(-174.59) NS(-589.14) EW(237.69) TEMP(0.0)

#52 MD(4973.00) Inc(10.9) Azm(158.8) TVD(4917.88)
VS(-178.98) NS(-605.16) EW(243.79) TEMP(0.0)

#53 MD(5068.00) Inc(9.1) Azm(155.8) TVD(5011.43)
VS(-183.68) NS(-620.39) EW(250.12) TEMP(0.0)

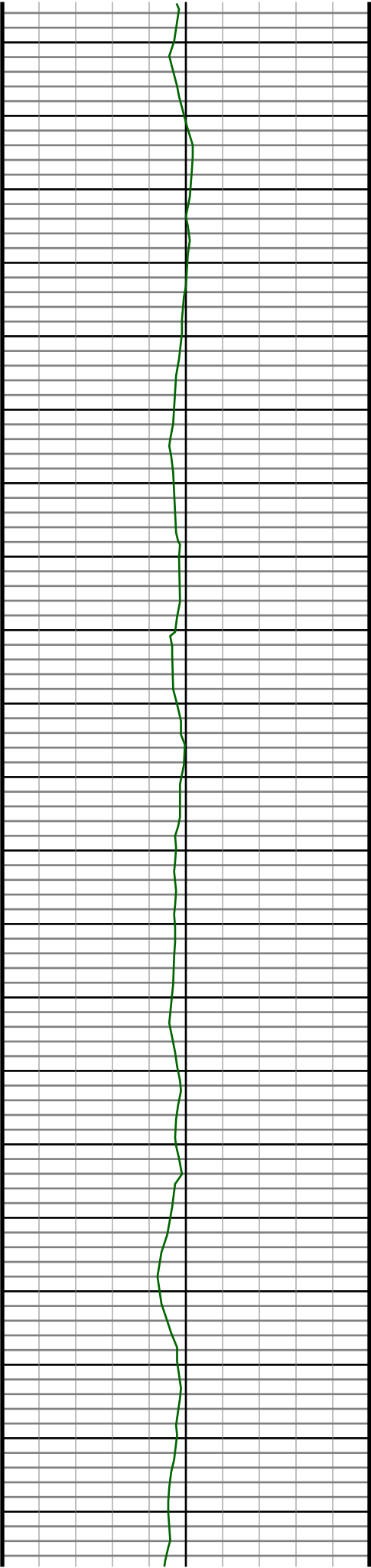


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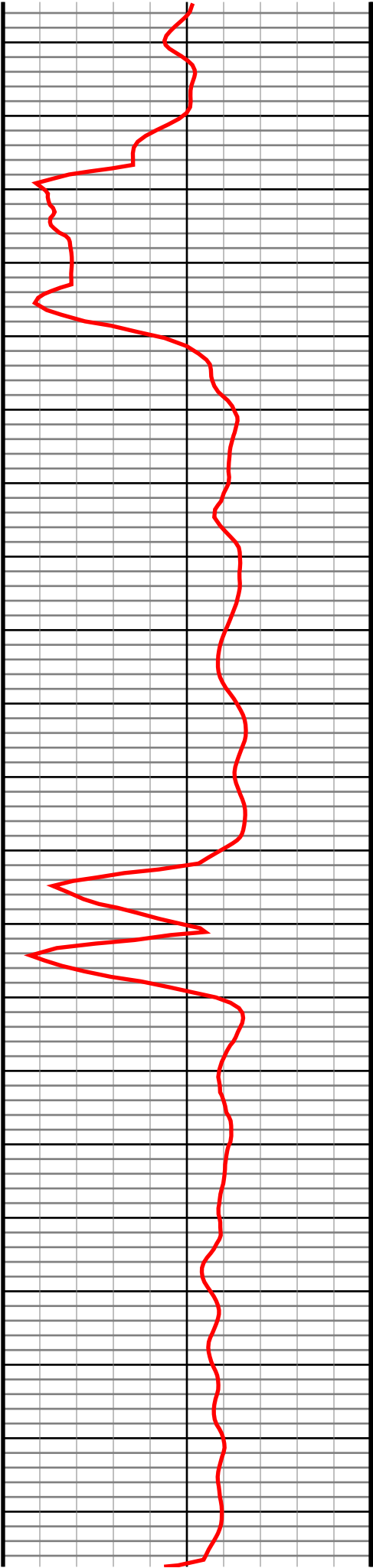


#54 MD(5163.00) Inc(8.8) Azm(167.4) TVD(5105.28)
VS(-186.86) NS(-634.34) EW(254.79) TEMP(0.0)

#55 MD(5258.00) Inc(9.5) Azm(158.2) TVD(5199.08)
VS(-189.82) NS(-648.71) EW(259.28) TEMP(0.0)

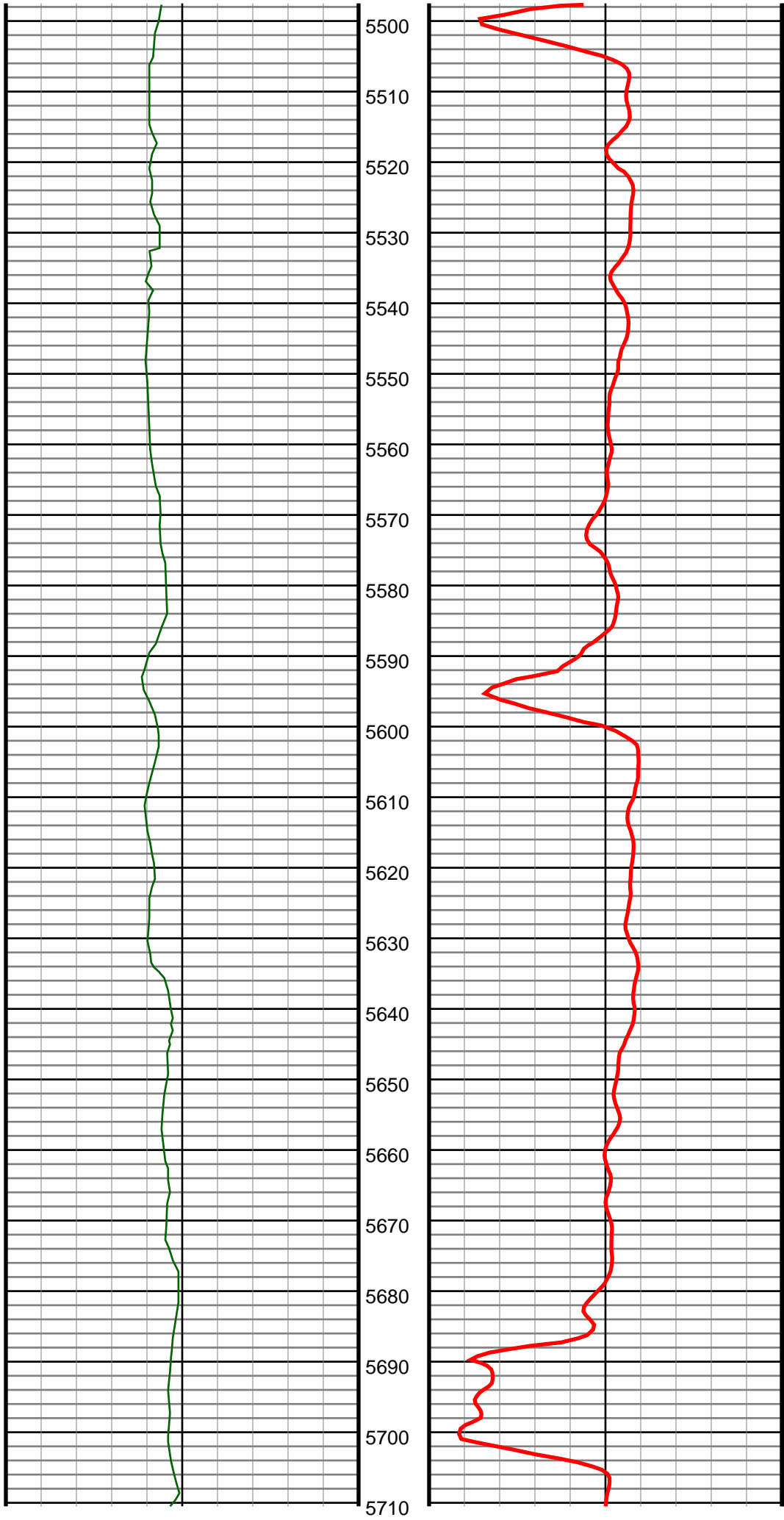


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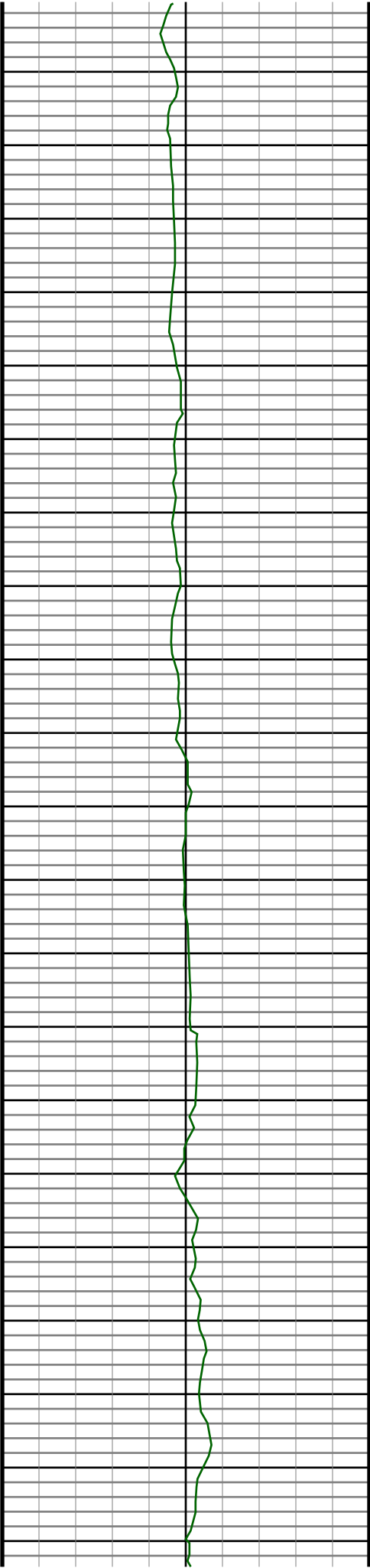
#56 MD(5353.00) Inc(8.9) Azm(163.2) TVD(5292.86)
VS(-193.33) NS(-663.02) EW(264.32) TEMP(0.0)

#57 MD(5448.00) Inc(7.4) Azm(154.9) TVD(5386.90)
VS(-196.70) NS(-675.60) EW(269.04) TEMP(0.0)

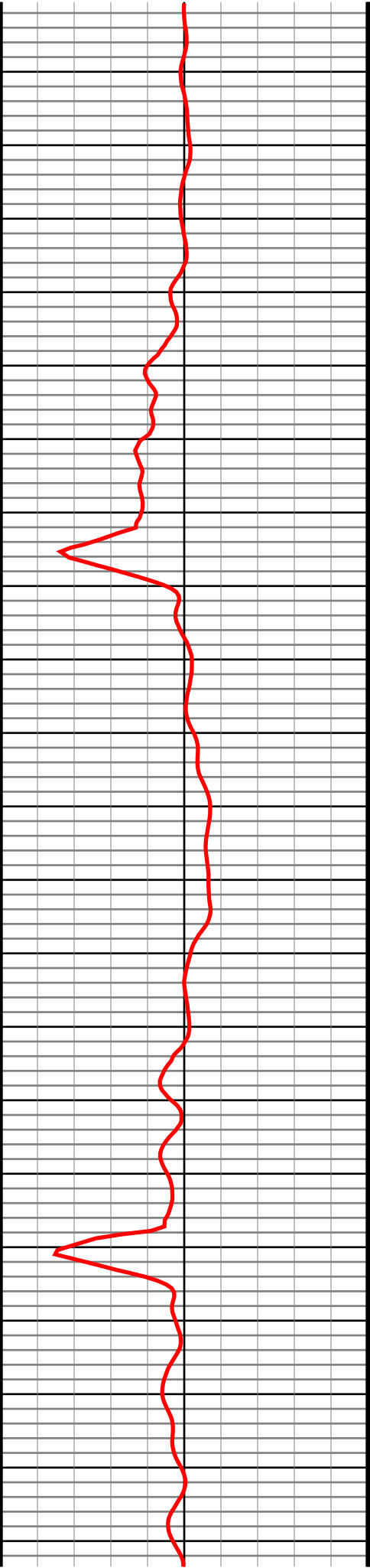


#58 MD(5543.00) Inc(6.2) Azm(156.8) TVD(5481.23)
VS(-200.22) NS(-685.85) EW(273.66) TEMP(0.0)

#59 MD(5638.00) Inc(4.7) Azm(153.1) TVD(5575.80)
VS(-203.12) NS(-694.04) EW(277.44) TEMP(0.0)

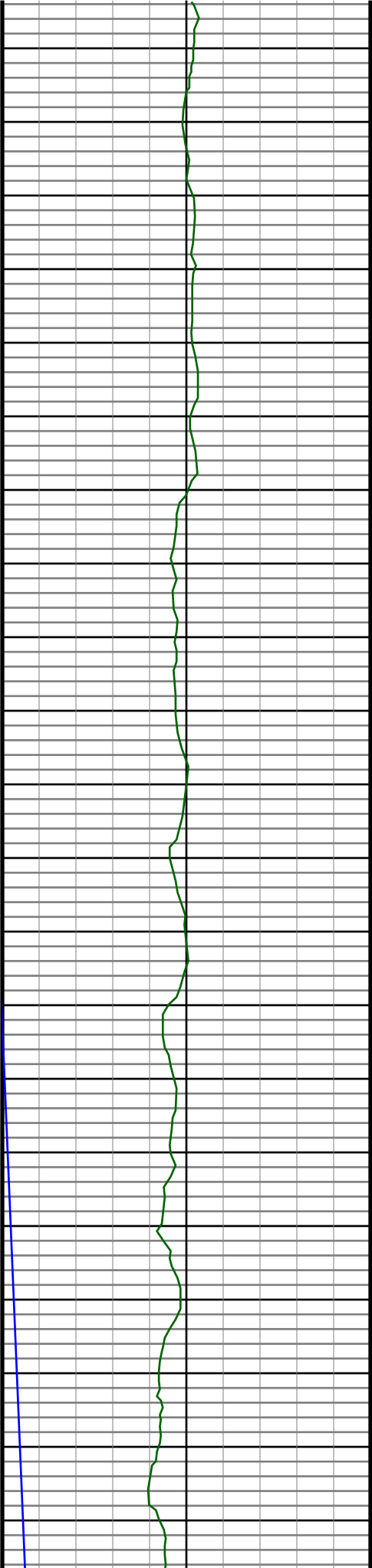


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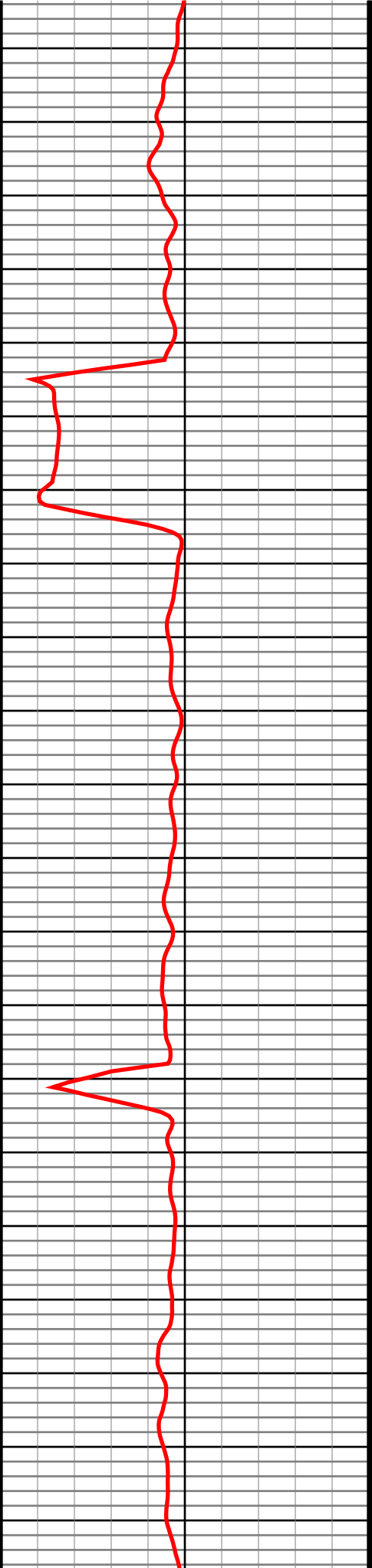


#60 MD(5733.00) Inc(3.0) Azm(161.2) TVD(5670.58)
VS(-205.06) NS(-699.86) EW(280.00) TEMP(0.0)

#61 MD(5829.00) Inc(2.0) Azm(146.8) TVD(5766.49)
VS(-206.38) NS(-703.64) EW(281.73) TEMP(0.0)



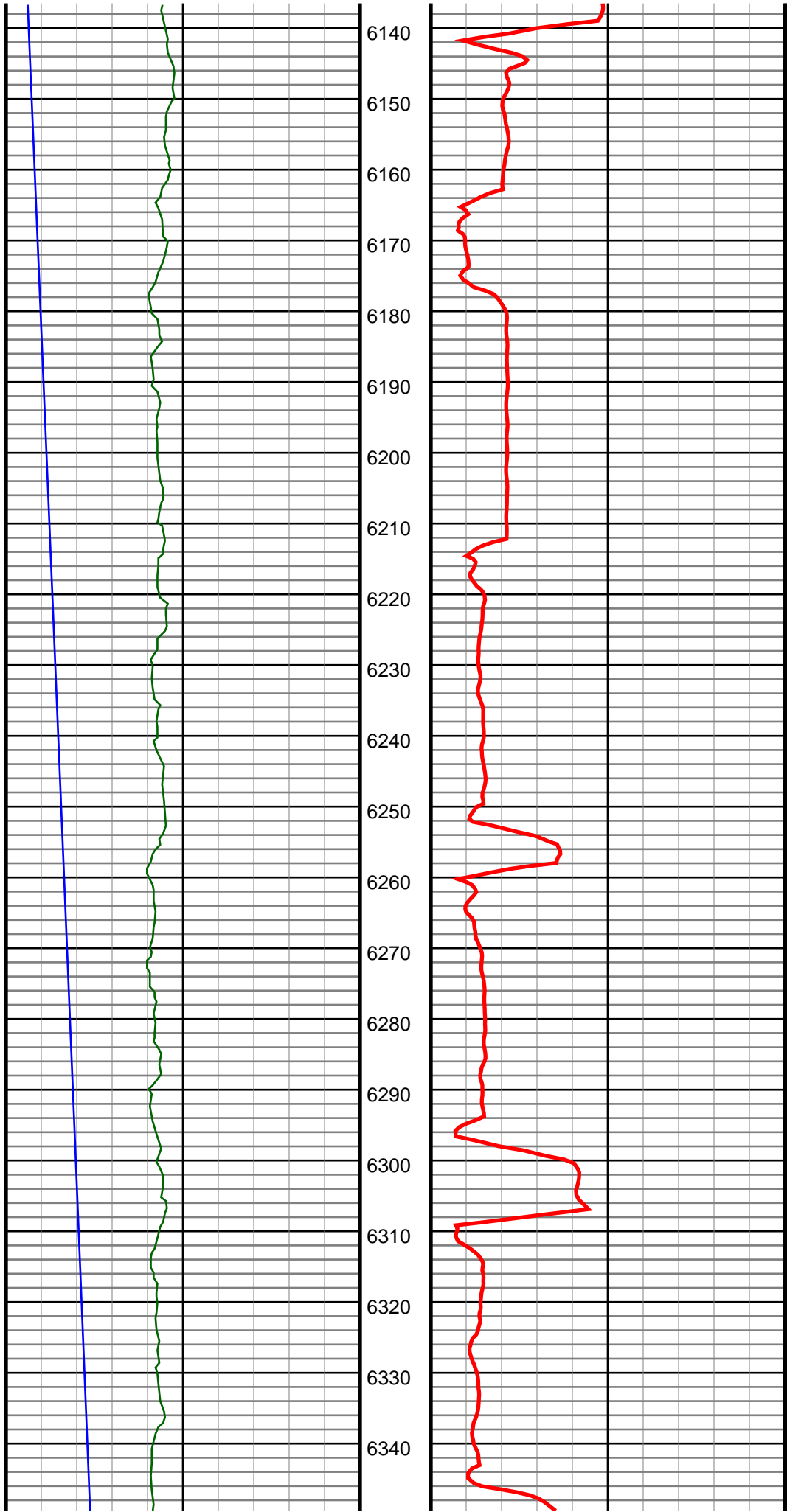
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#62 MD(5924.00) Inc(1.7) Azm(143.5) TVD(5861.44)
VS(-207.85) NS(-706.16) EW(283.47) TEMP(0.0)

#63 MD(6019.00) Inc(0.2) Azm(276.4) TVD(5956.42)
VS(-208.40) NS(-707.28) EW(284.15) TEMP(0.0)

#64 MD(6114.00) Inc(0.4) Azm(267.0) TVD(6051.42)
VS(-207.91) NS(-707.28) EW(283.65) TEMP(0.0)

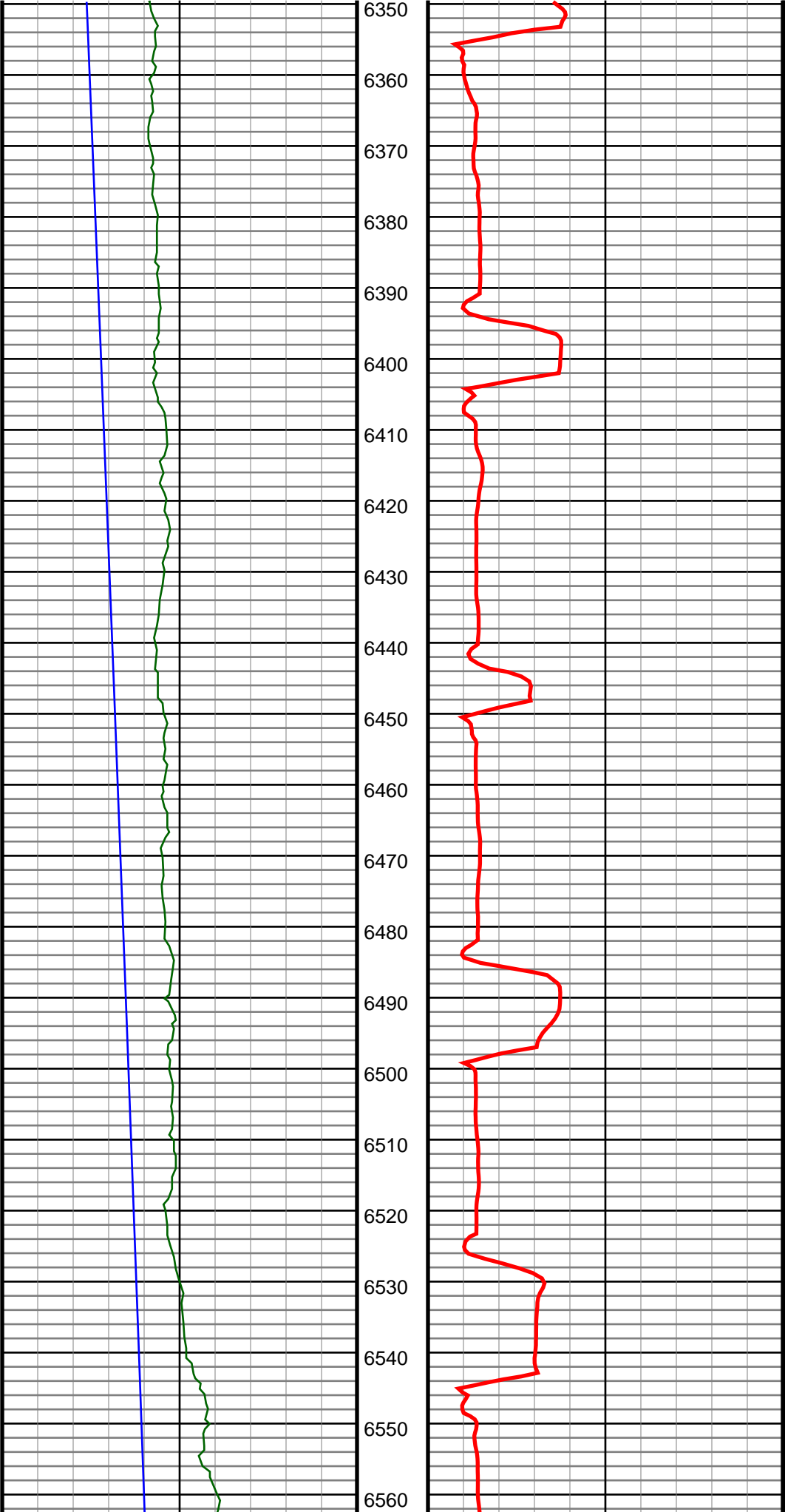


#65 MD(6162.00) Inc(0.6) Azm(299.0) TVD(6099.42)
VS(-207.54) NS(-707.16) EW(283.26) TEMP(0.0)

#66 MD(6209.00) Inc(1.4) Azm(273.2) TVD(6146.41)
VS(-206.77) NS(-707.01) EW(282.47) TEMP(0.0)

#67 MD(6257.00) Inc(5.9) Azm(277.9) TVD(6194.30)
VS(-203.79) NS(-706.64) EW(279.44) TEMP(0.0)

#68 MD(6304.00) Inc(9.9) Azm(280.2) TVD(6240.85)
VS(-197.57) NS(-705.59) EW(273.07) TEMP(0.0)



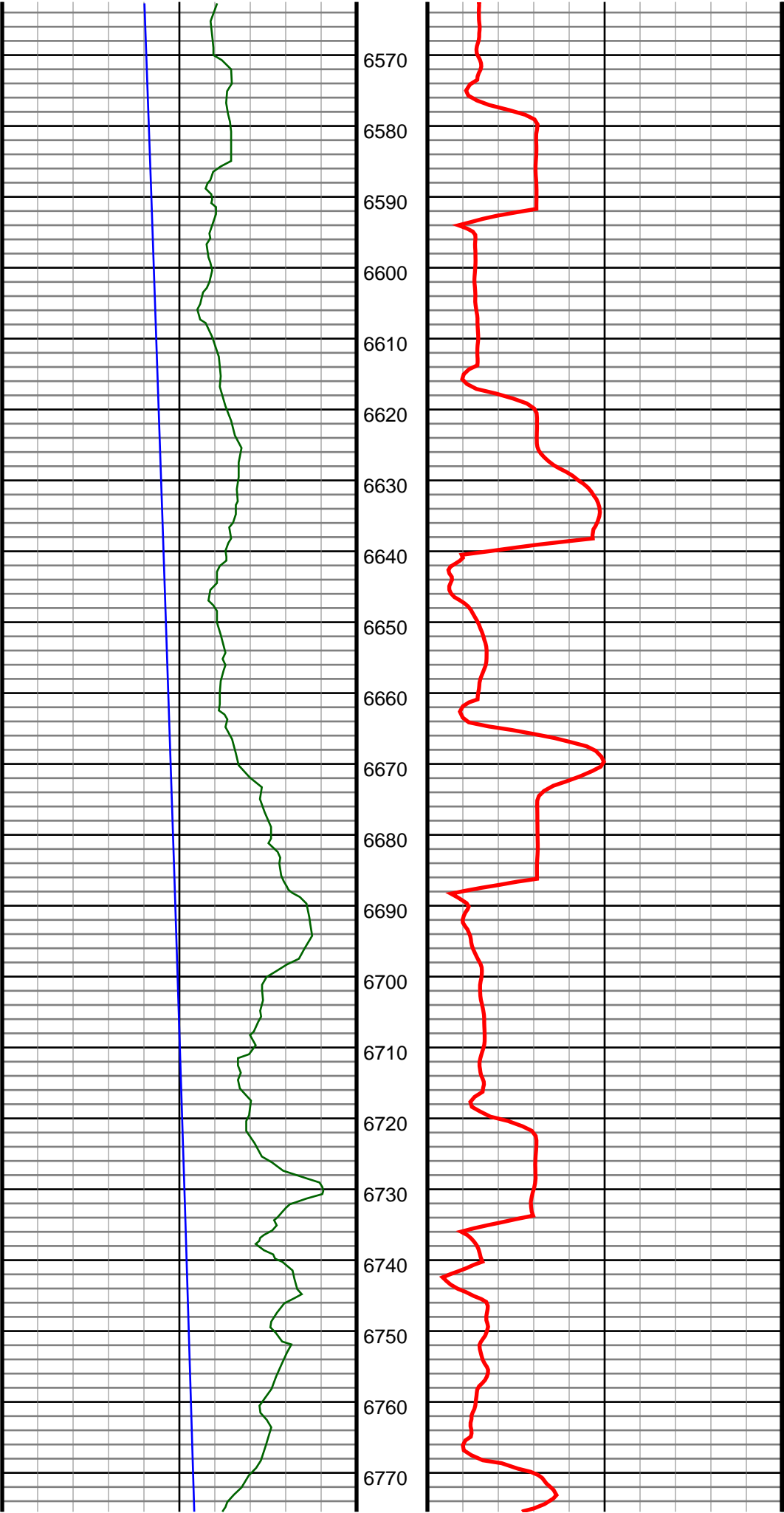
#69 MD(6352.00) Inc(12.7) Azm(278.5) TVD(6287.91)
VS(-188.49) NS(-704.08) EW(263.79) TEMP(0.0)

#70 MD(6399.00) Inc(16.8) Azm(271.4) TVD(6333.36)
VS(-176.75) NS(-703.15) EW(251.88) TEMP(0.0)

#71 MD(6447.00) Inc(21.7) Azm(269.7) TVD(6378.66)
VS(-161.03) NS(-703.03) EW(236.07) TEMP(0.0)

#72 MD(6494.00) Inc(26.0) Azm(270.2) TVD(6421.64)
VS(-142.14) NS(-703.04) EW(217.07) TEMP(0.0)

#73 MD(6542.00) Inc(29.5) Azm(269.9) TVD(6464.11)
VS(-119.92) NS(-703.02) EW(194.72) TEMP(0.0)

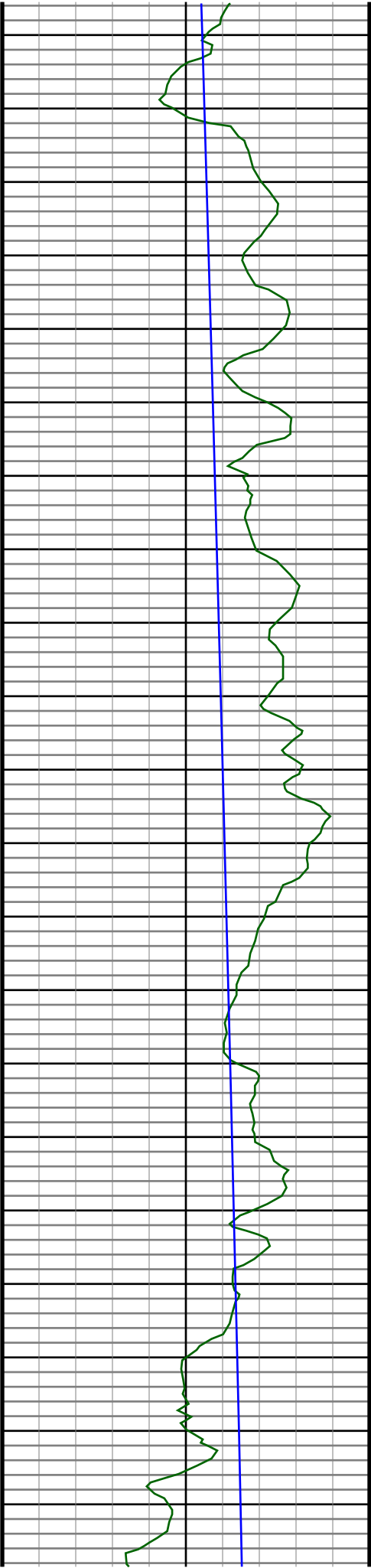


#74 MD(6589.00) Inc(33.1) Azm(269.7) TVD(6504.26)
VS(-95.63) NS(-703.11) EW(170.31) TEMP(0.0)

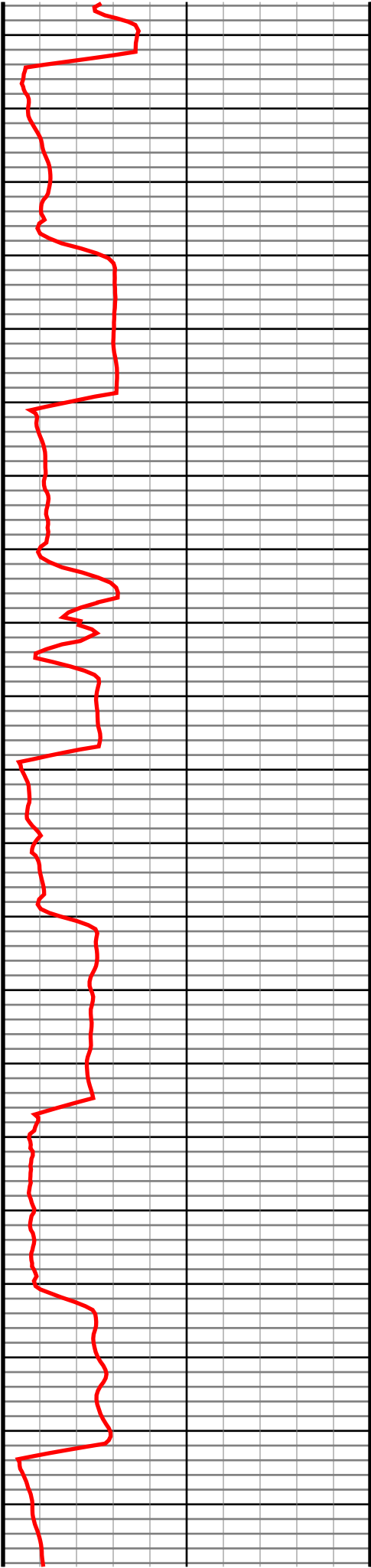
#75 MD(6637.00) Inc(35.7) Azm(269.5) TVD(6543.87)
VS(-68.64) NS(-703.30) EW(143.19) TEMP(0.0)

#76 MD(6685.00) Inc(37.6) Azm(268.8) TVD(6582.37)
VS(-40.11) NS(-703.73) EW(114.54) TEMP(0.0)

#77 MD(6733.00) Inc(41.7) Azm(269.5) TVD(6619.32)
VS(-9.61) NS(-704.18) EW(83.93) TEMP(0.0)



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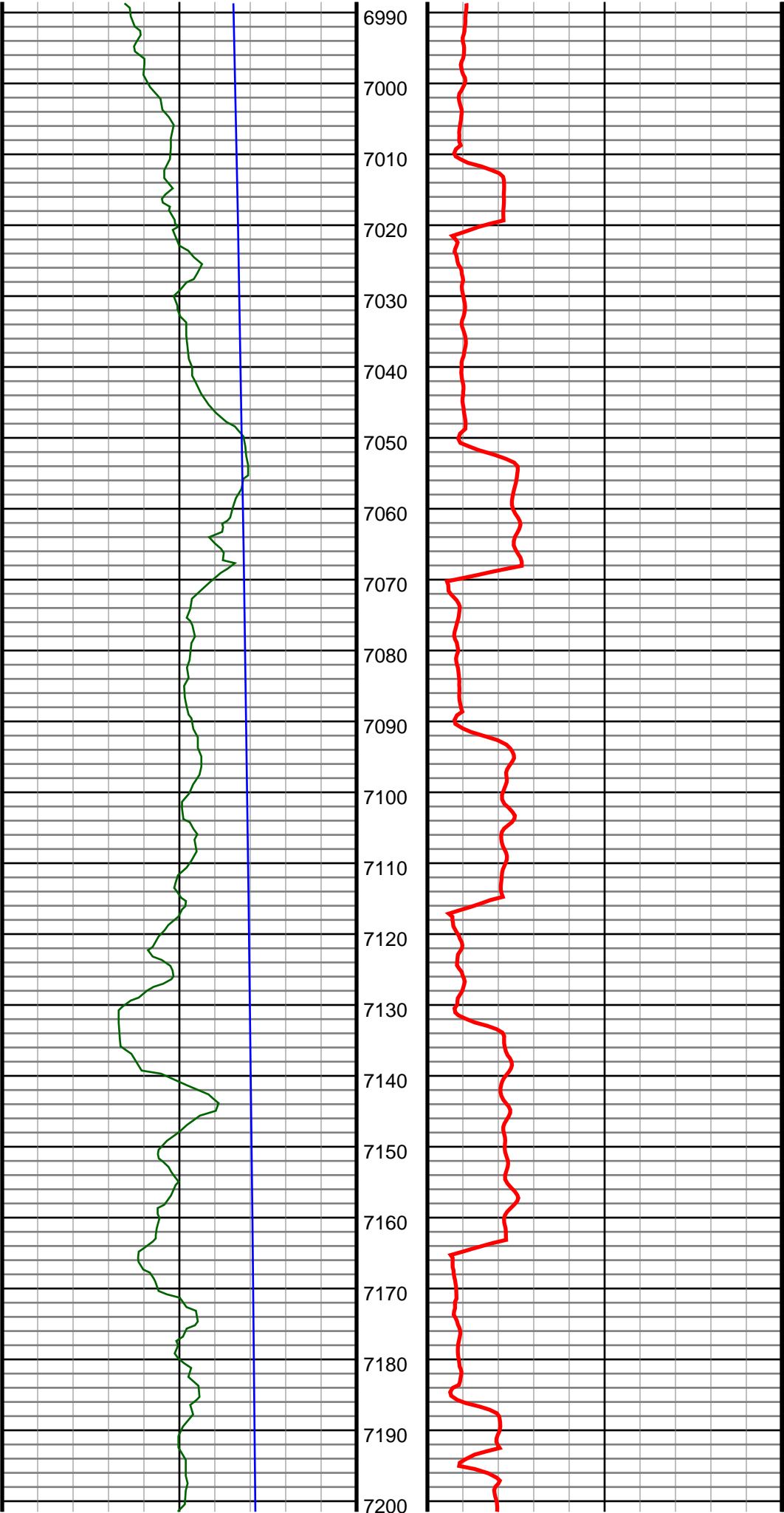
#78 MD(6780.00) Inc(44.5) Azm(268.4) TVD(6653.64)
VS(22.38) NS(-704.77) EW(51.82) TEMP(0.0)

#79 MD(6828.00) Inc(48.1) Azm(266.9) TVD(6686.80)
VS(57.00) NS(-706.21) EW(17.16) TEMP(0.0)

#80 MD(6875.00) Inc(51.2) Azm(266.5) TVD(6717.22)
VS(92.78) NS(-708.27) EW(-18.60) TEMP(0.0)

#81 MD(6923.00) Inc(53.2) Azm(267.6) TVD(6746.64)
VS(130.65) NS(-710.22) EW(-56.47) TEMP(0.0)

#82 MD(6971.00) Inc(57.0) Azm(268.6) TVD(6774.10)
VS(169.90) NS(-711.52) EW(-95.81) TEMP(0.0)

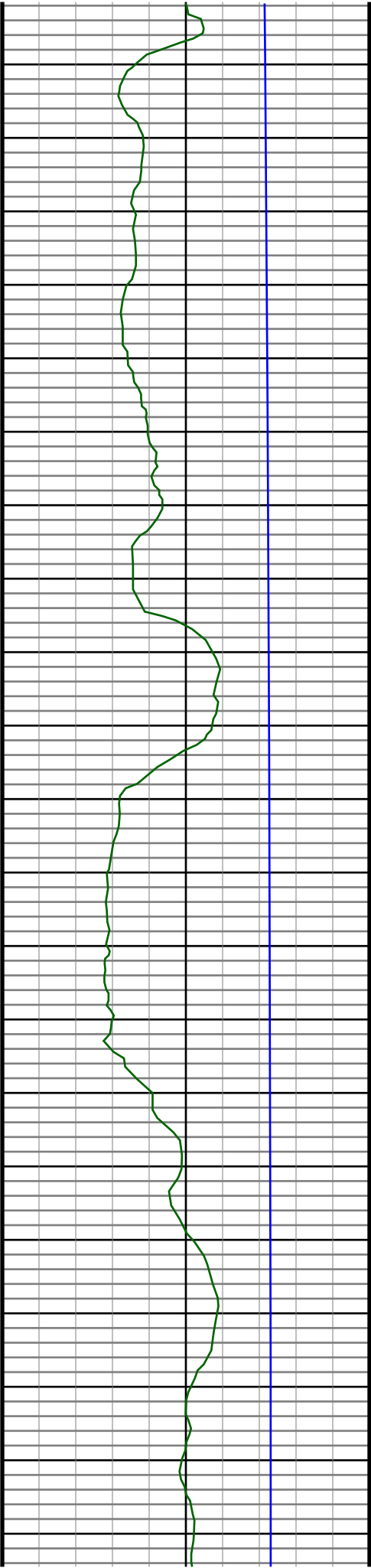


#83 MD(7019.00) Inc(62.8) Azm(269.7) TVD(6798.16)
VS(211.24) NS(-712.12) EW(-137.31) TEMP(0.0)

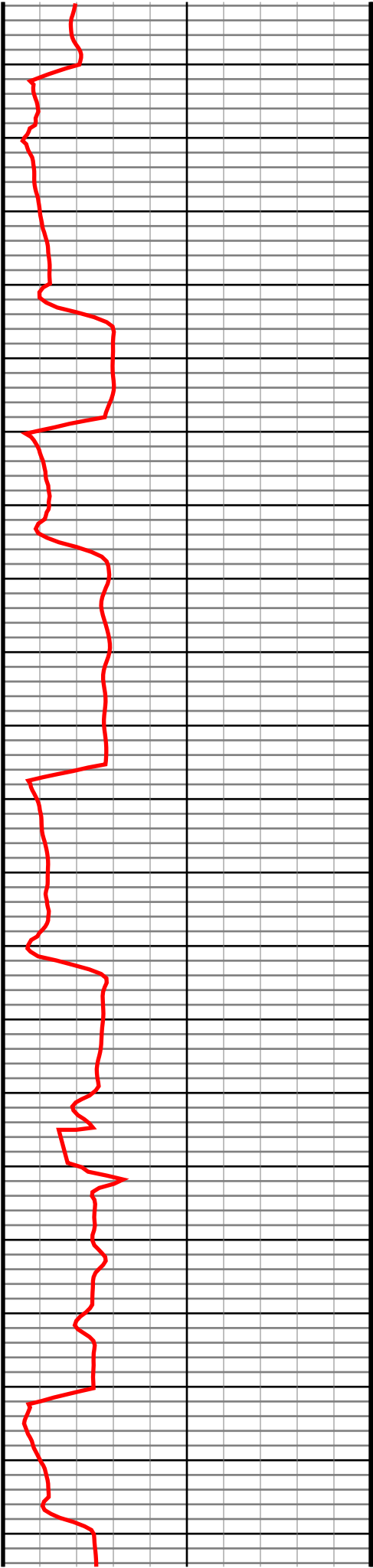
#84 MD(7066.00) Inc(68.2) Azm(270.0) TVD(6817.65)
VS(253.77) NS(-712.23) EW(-180.07) TEMP(0.0)

#85 MD(7114.00) Inc(72.1) Azm(270.6) TVD(6833.94)
VS(298.63) NS(-711.99) EW(-225.20) TEMP(0.0)

#86 MD(7161.00) Inc(74.1) Azm(269.9) TVD(6847.61)
VS(343.33) NS(-711.80) EW(-270.17) TEMP(0.0)



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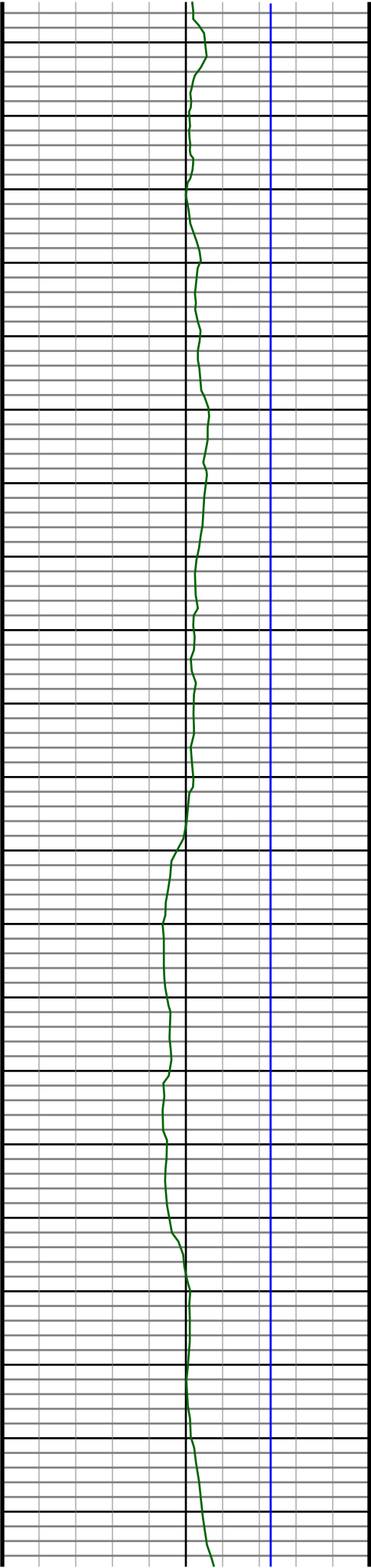


#87 MD(7209.00) Inc(78.3) Azm(269.3) TVD(6859.05)
VS(389.71) NS(-712.12) EW(-316.77) TEMP(0.0)

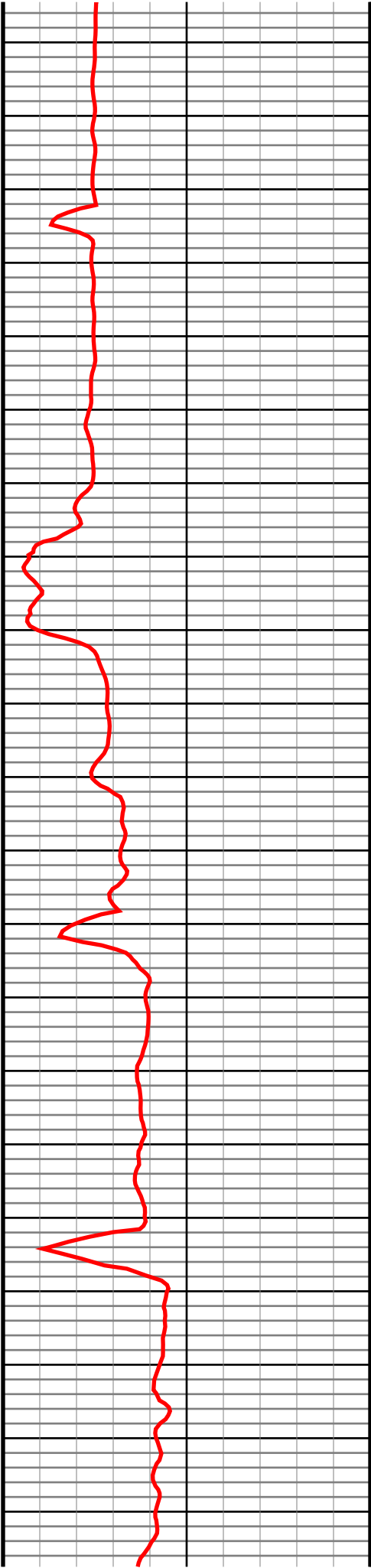
#88 MD(7257.00) Inc(82.6) Azm(269.3) TVD(6867.01)
VS(436.83) NS(-712.70) EW(-364.09) TEMP(0.0)

#89 MD(7305.00) Inc(84.7) Azm(270.6) TVD(6872.32)
VS(484.27) NS(-712.74) EW(-411.80) TEMP(0.0)

#90 MD(7387.00) Inc(88.7) Azm(271.8) TVD(6877.04)
VS(565.47) NS(-711.03) EW(-493.62) TEMP(0.0)



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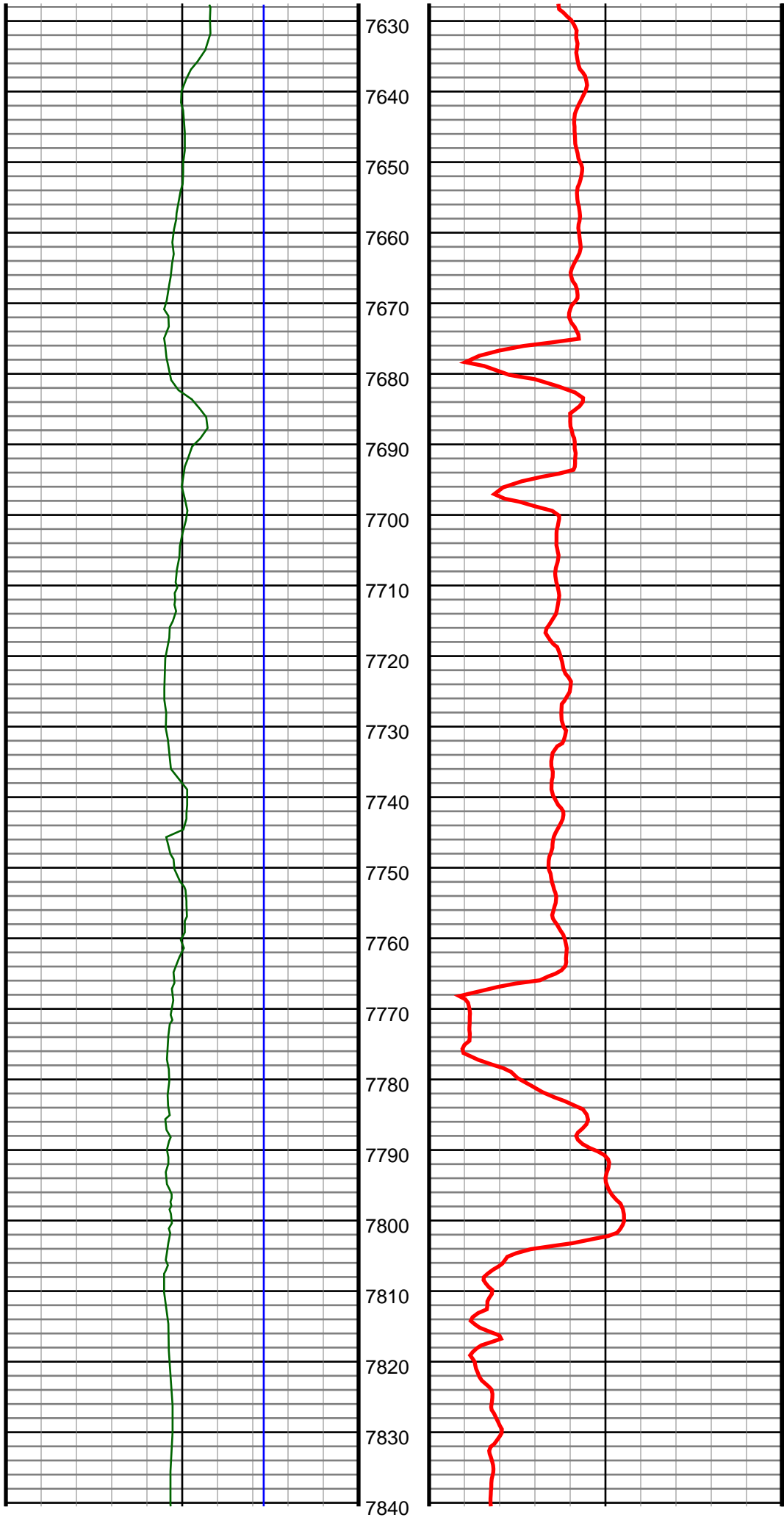


#91 MD(7433.00) Inc(90.7) Azm(272.3) TVD(6877.28)
VS(611.01) NS(-709.38) EW(-539.59) TEMP(0.0)

#92 MD(7483.00) Inc(90.5) Azm(272.1) TVD(6876.76)
VS(660.50) NS(-707.46) EW(-589.55) TEMP(0.0)

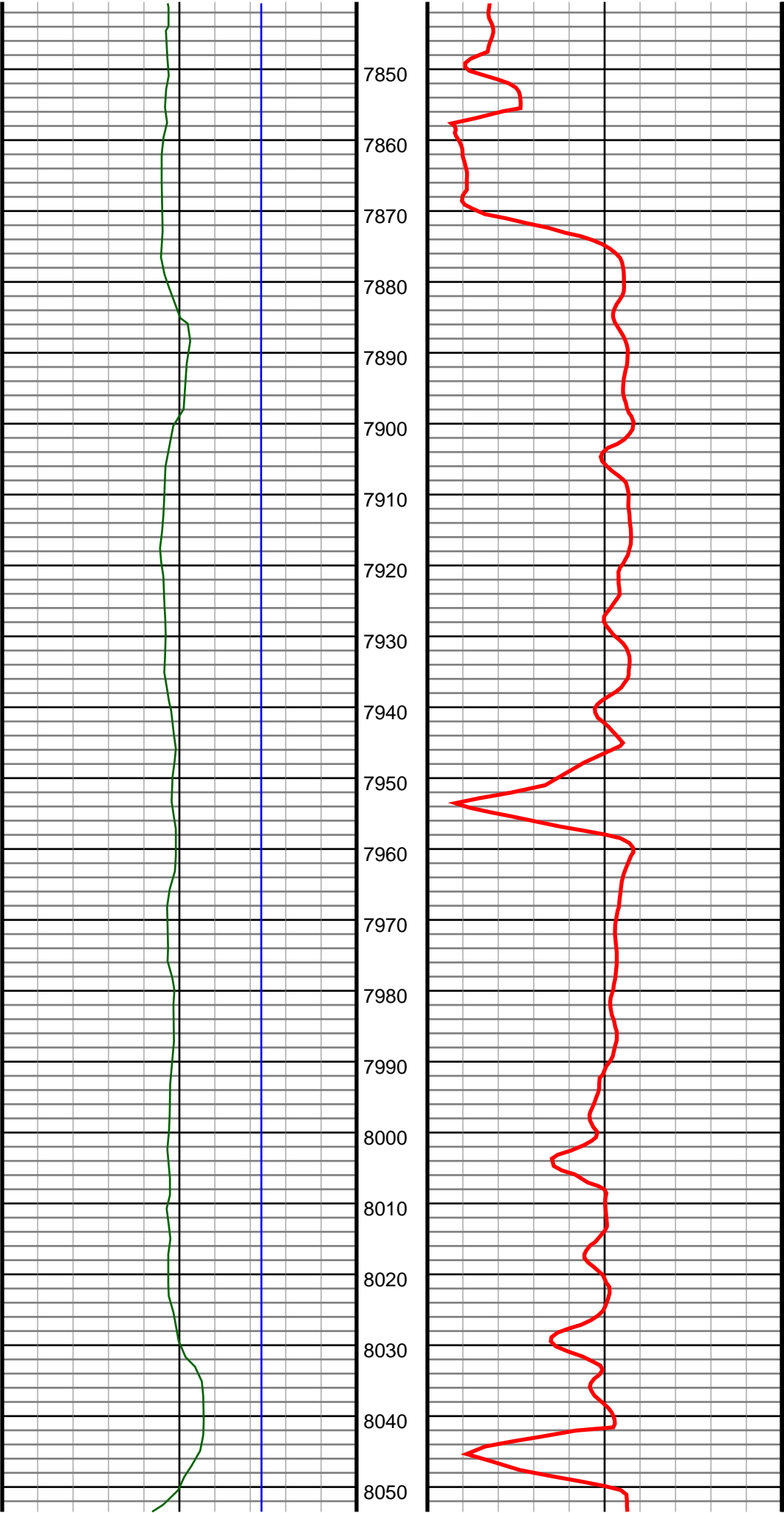
#93 MD(7527.00) Inc(89.8) Azm(270.3) TVD(6876.64)
VS(704.15) NS(-706.54) EW(-633.54) TEMP(0.0)

#94 MD(7621.00) Inc(89.6) Azm(270.0) TVD(6877.14)
VS(797.60) NS(-706.30) EW(-727.54) TEMP(0.0)



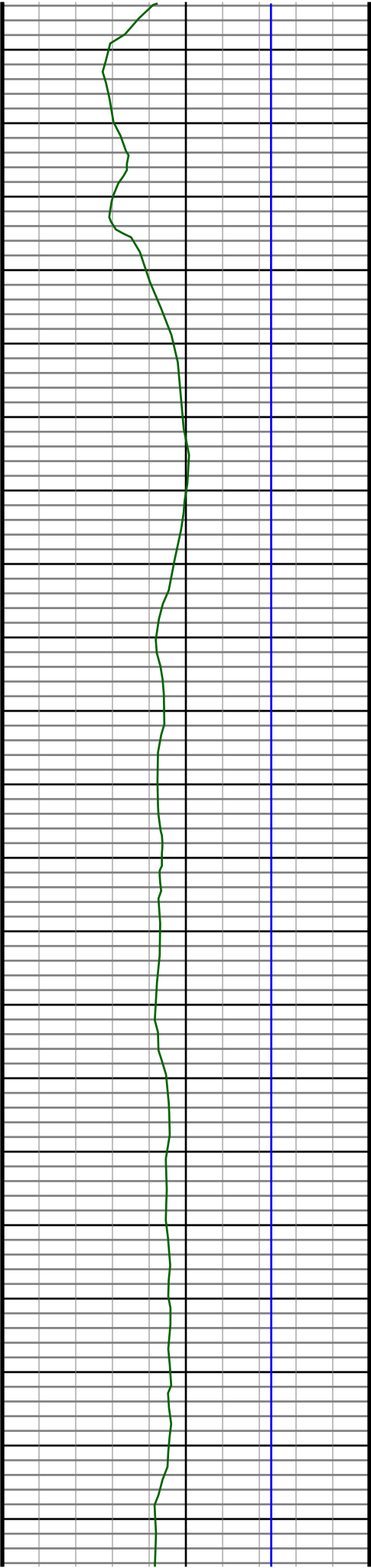
#95 MD(7712.00) Inc(89.4) Azm(270.2) TVD(6877.93)
VS(888.08) NS(-706.14) EW(-818.53) TEMP(0.0)

#96 MD(7804.00) Inc(91.1) Azm(270.2) TVD(6877.53)
VS(979.53) NS(-705.82) EW(-910.53) TEMP(0.0)

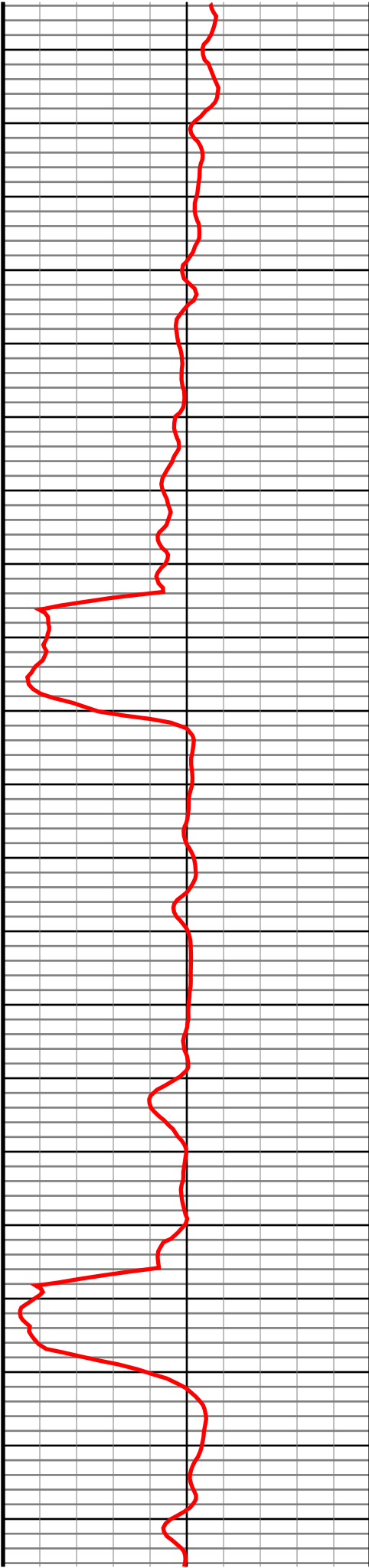


#97 MD(7896.00) Inc(89.8) Azm(269.1) TVD(6876.81)
VS(1071.08) NS(-706.38) EW(-1002.52) TEMP(0.0)

#98 MD(7988.00) Inc(89.5) Azm(268.4) TVD(6877.37)
VS(1162.75) NS(-708.38) EW(-1094.50) TEMP(0.0)



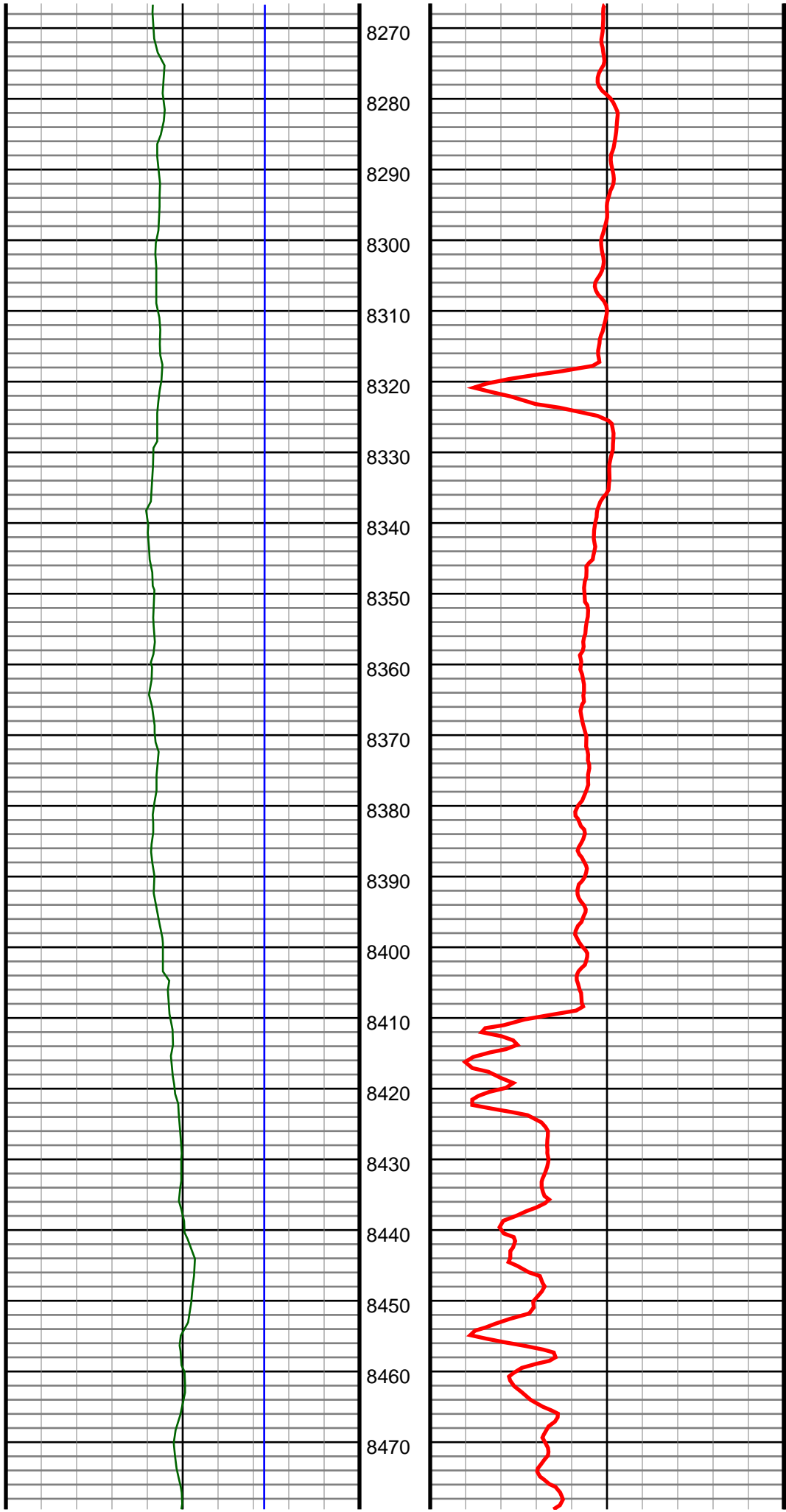
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#99 MD(8079.00) Inc(89.3) Azm(268.2) TVD(6878.32)
VS(1253.49) NS(-711.08) EW(-1185.45) TEMP(0.0)

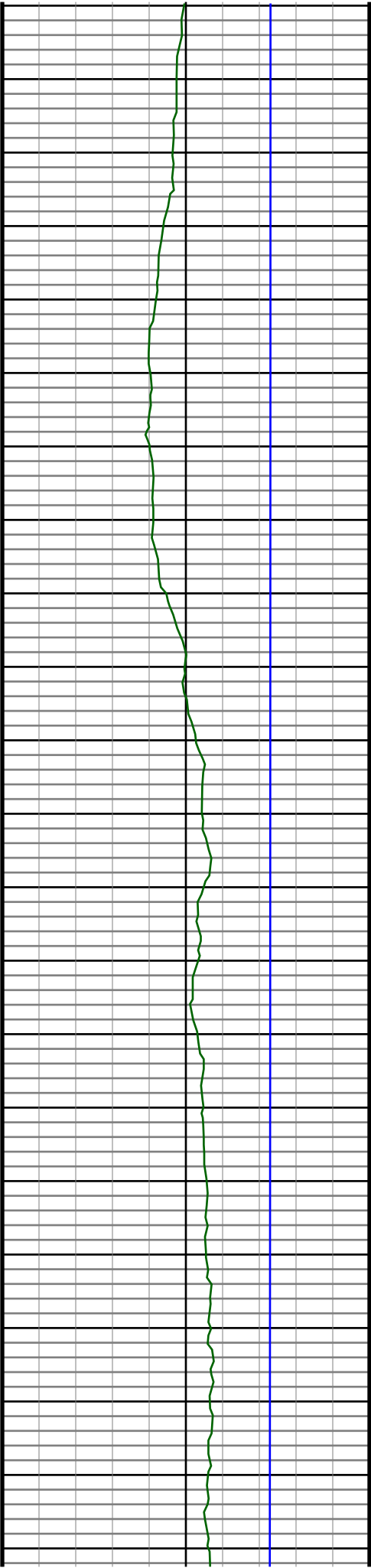
#100 MD(8171.00) Inc(89.7) Azm(268.9) TVD(6879.12)
VS(1345.19) NS(-713.41) EW(-1277.42) TEMP(0.0)

#101 MD(8263.00) Inc(90.6) Azm(269.5) TVD(6878.88)
VS(1436.81) NS(-714.70) EW(-1369.41) TEMP(0.0)

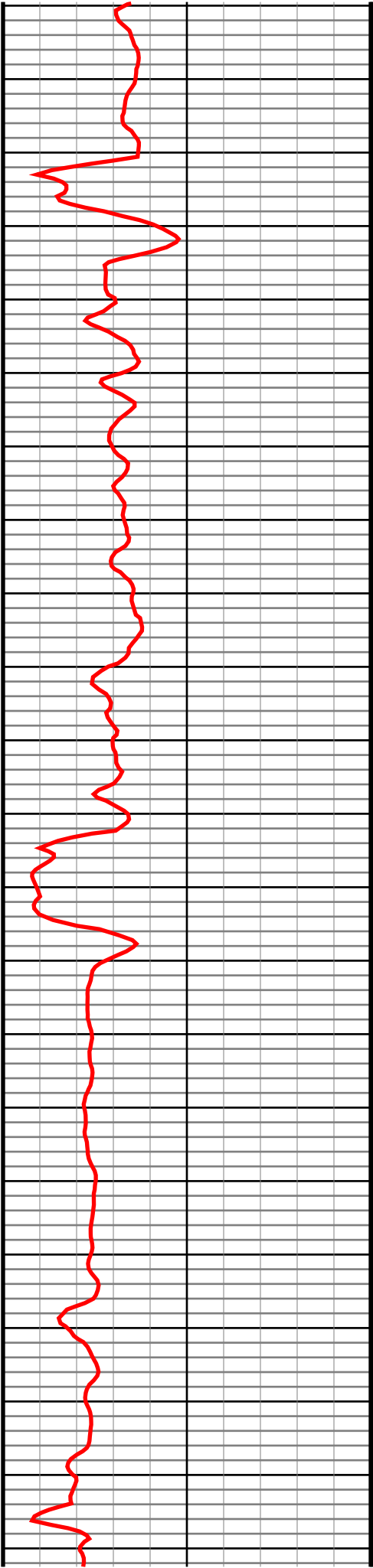


#102 MD(8354.00) Inc(90.8) Azm(269.5) TVD(6877.77)
VS(1527.38) NS(-715.49) EW(-1460.40) TEMP(0.0)

#103 MD(8444.00) Inc(90.5) Azm(268.9) TVD(6876.75)
VS(1617.00) NS(-716.75) EW(-1550.38) TEMP(0.0)

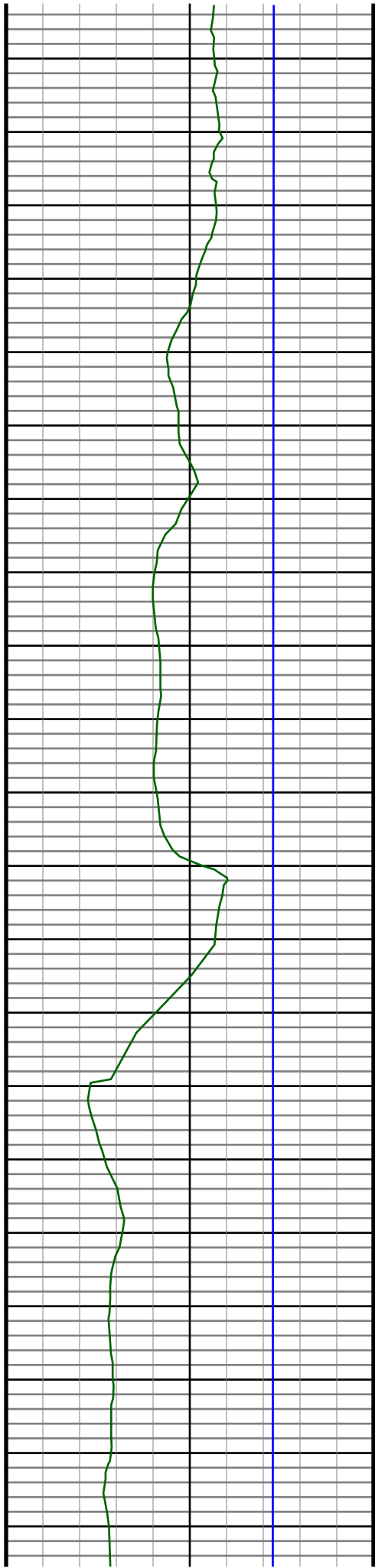


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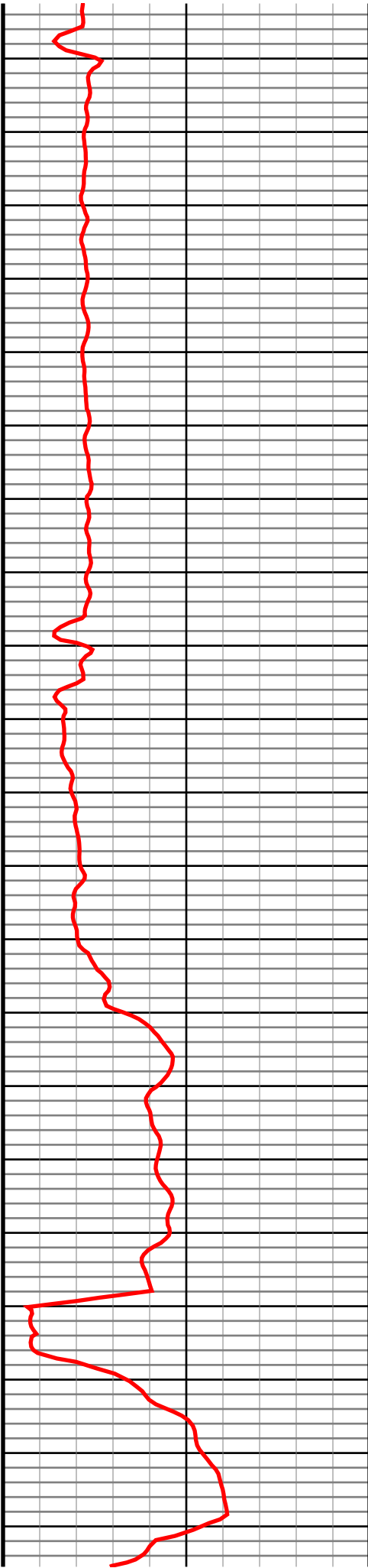


#104 MD(8535.00) Inc(90.1) Azm(269.5) TVD(6876.27)
VS(1707.62) NS(-718.02) EW(-1641.37) TEMP(0.0)

#105 MD(8627.00) Inc(90.9) Azm(270.0) TVD(6875.47)
VS(1799.15) NS(-718.42) EW(-1733.37) TEMP(0.0)



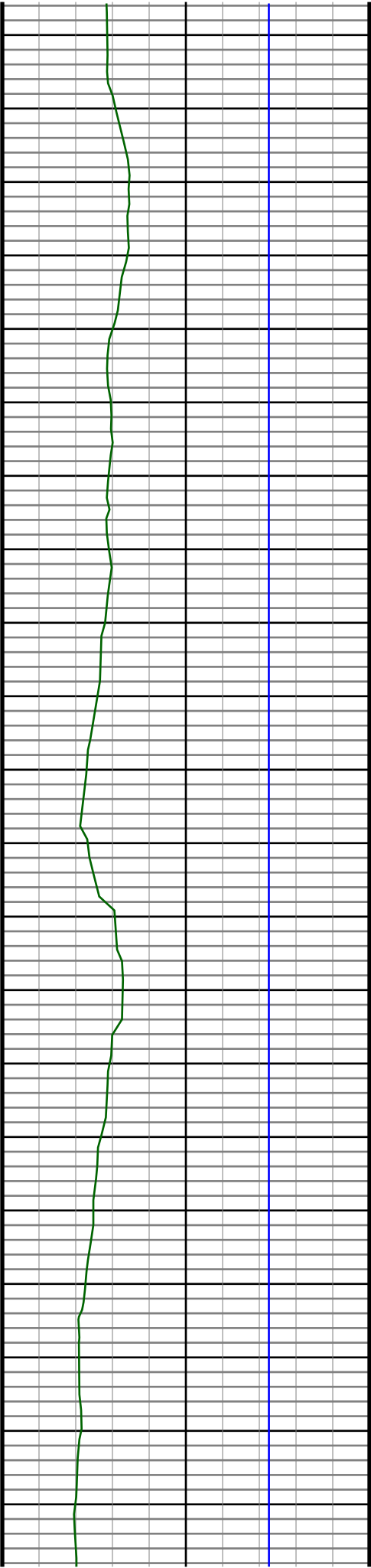
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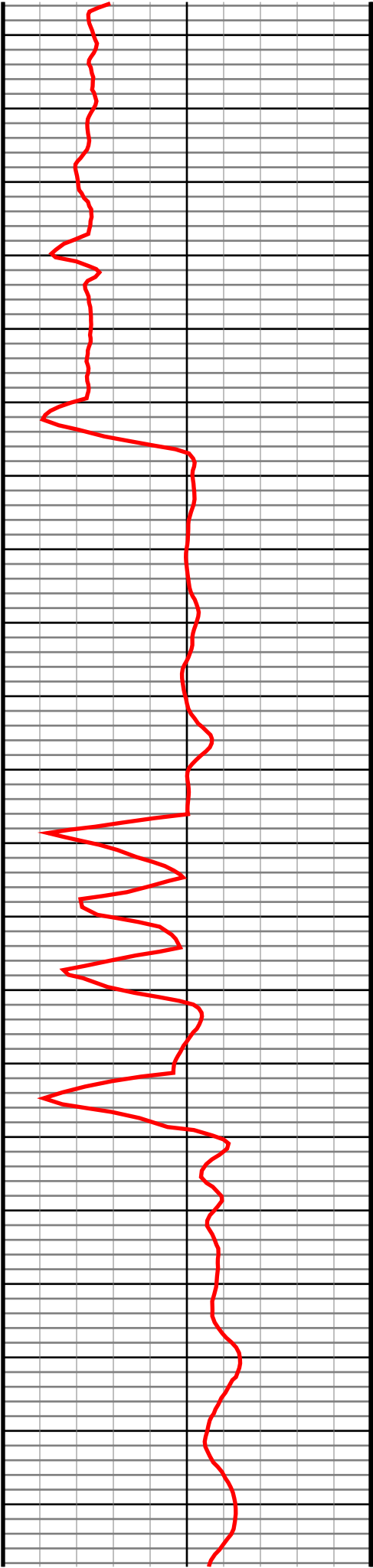
#106 MD(8719.00) Inc(91.2) Azm(270.0) TVD(6873.79)
VS(1890.63) NS(-718.42) EW(-1825.35) TEMP(0.0)

#107 MD(8811.00) Inc(91.0) Azm(269.8) TVD(6872.02)
VS(1982.12) NS(-718.58) EW(-1917.33) TEMP(0.0)

#108 MD(8903.00) Inc(90.0) Azm(269.5) TVD(6871.22)
VS(2073.67) NS(-719.14) EW(-2009.33) TEMP(0.0)

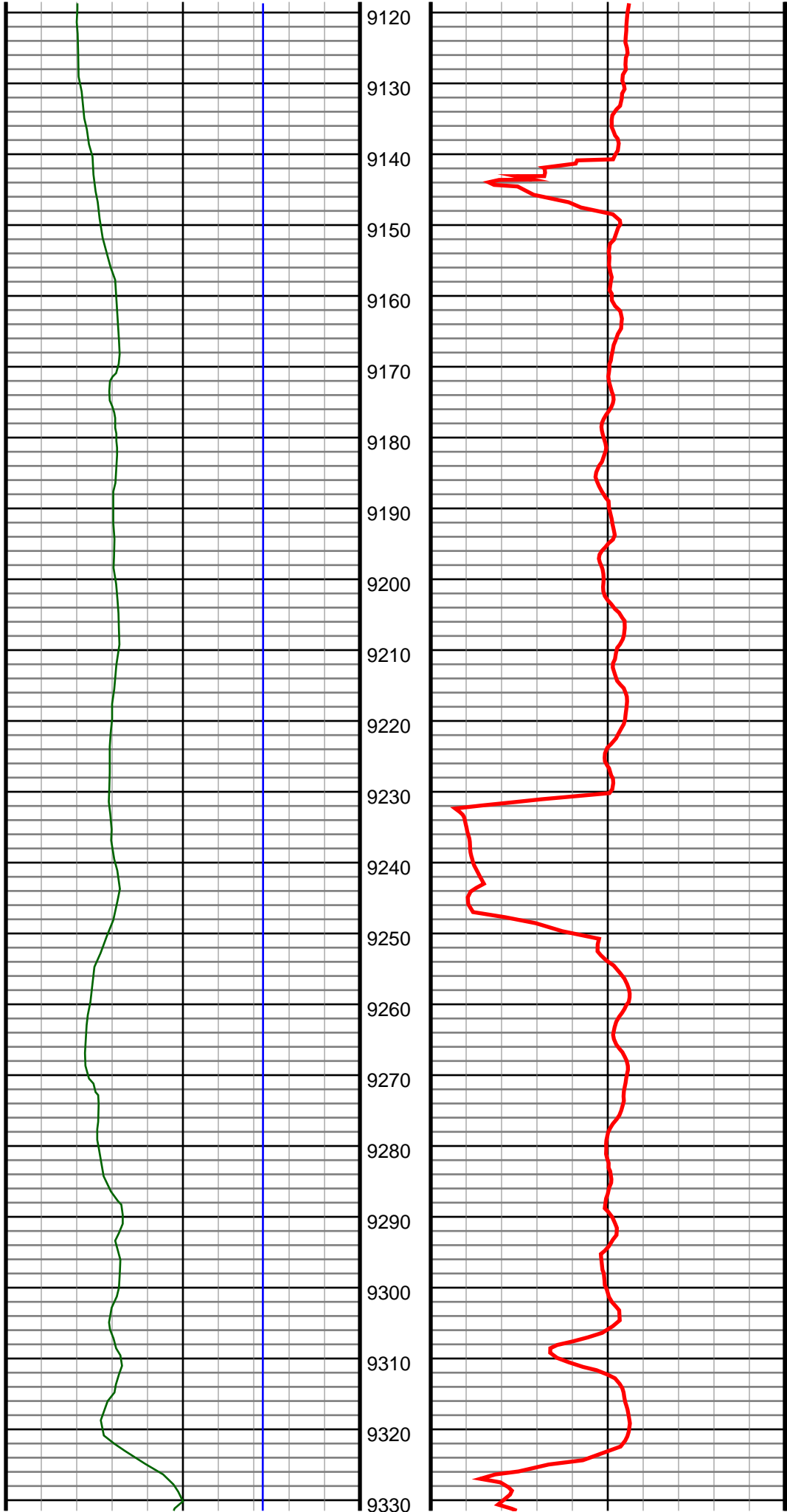


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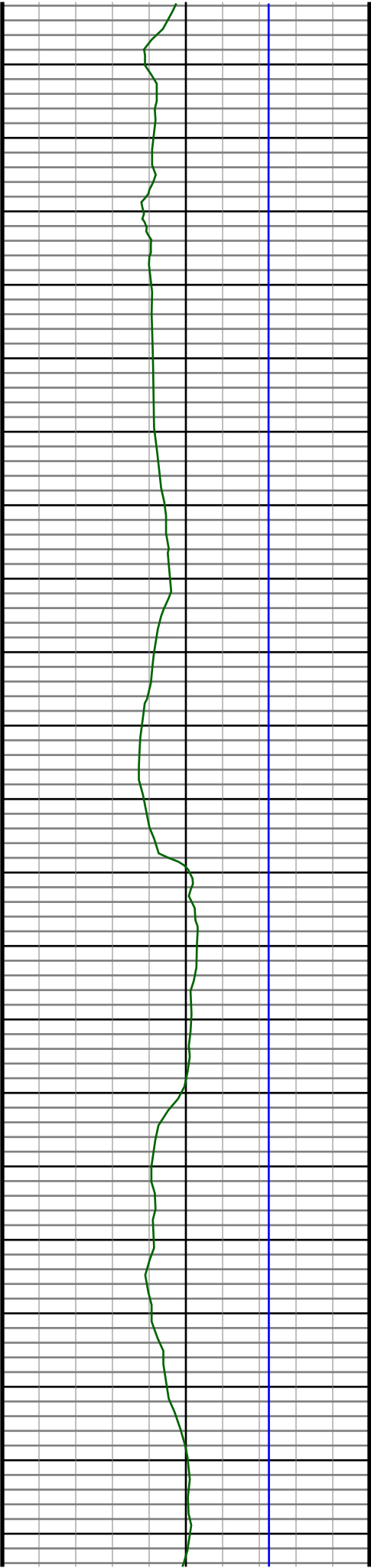
#109 MD(8994.00) Inc(90.1) Azm(269.3) TVD(6871.14)
VS(2164.26) NS(-720.09) EW(-2100.32) TEMP(0.0)

#110 MD(9085.00) Inc(89.7) Azm(268.8) TVD(6871.30)
VS(2254.90) NS(-721.60) EW(-2191.31) TEMP(0.0)

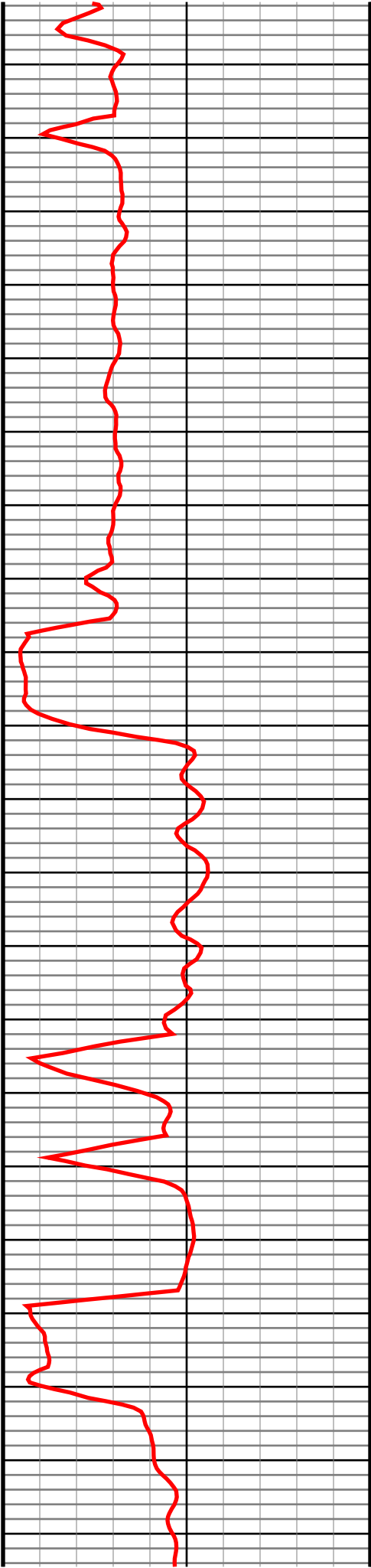


#111 MD(9177.00) Inc(89.5) Azm(267.9) TVD(6871.94)
VS(2346.63) NS(-724.25) EW(-2283.27) TEMP(0.0)

#112 MD(9268.00) Inc(91.0) Azm(269.5) TVD(6871.54)
VS(2437.32) NS(-726.32) EW(-2374.24) TEMP(0.0)



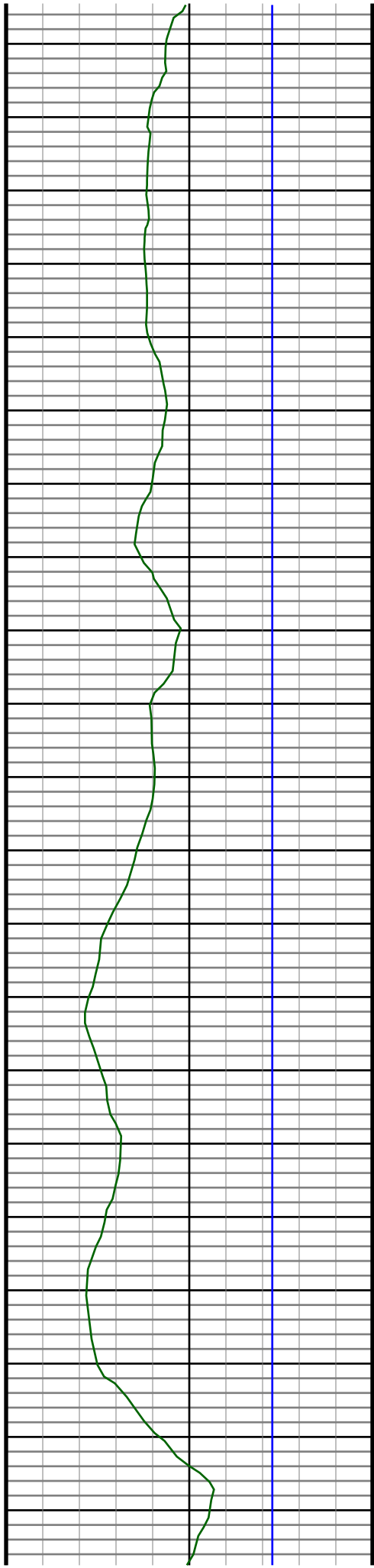
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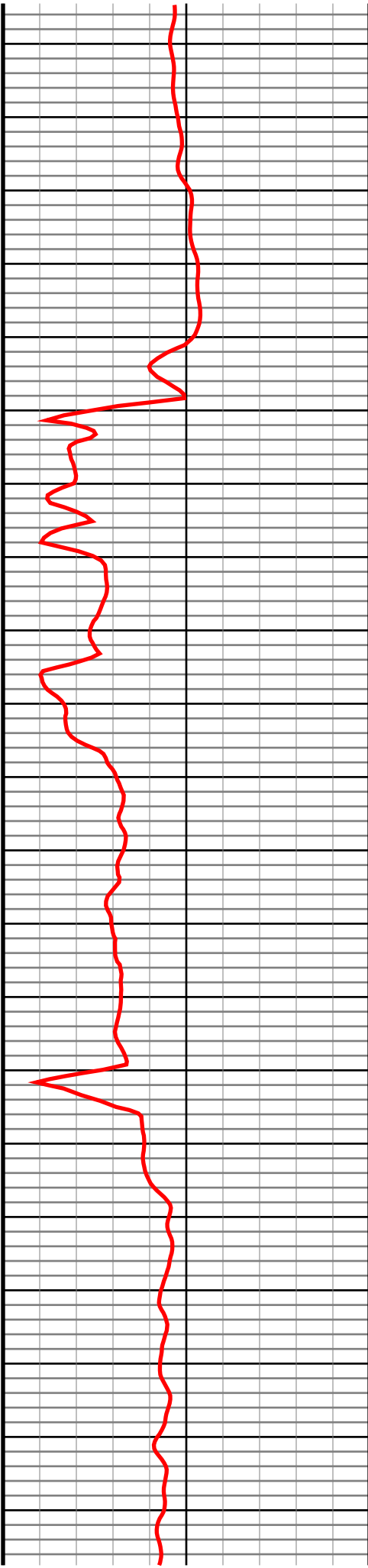
#113 MD(9360.00) Inc(90.8) Azm(269.5) TVD(6870.10)
VS(2528.88) NS(-727.12) EW(-2466.22) TEMP(0.0)

#114 MD(9452.00) Inc(88.9) Azm(270.0) TVD(6870.34)
VS(2620.41) NS(-727.52) EW(-2558.22) TEMP(0.0)

#115 MD(9544.00) Inc(89.6) Azm(269.8) TVD(6871.54)
VS(2711.91) NS(-727.68) EW(-2650.21) TEMP(0.0)

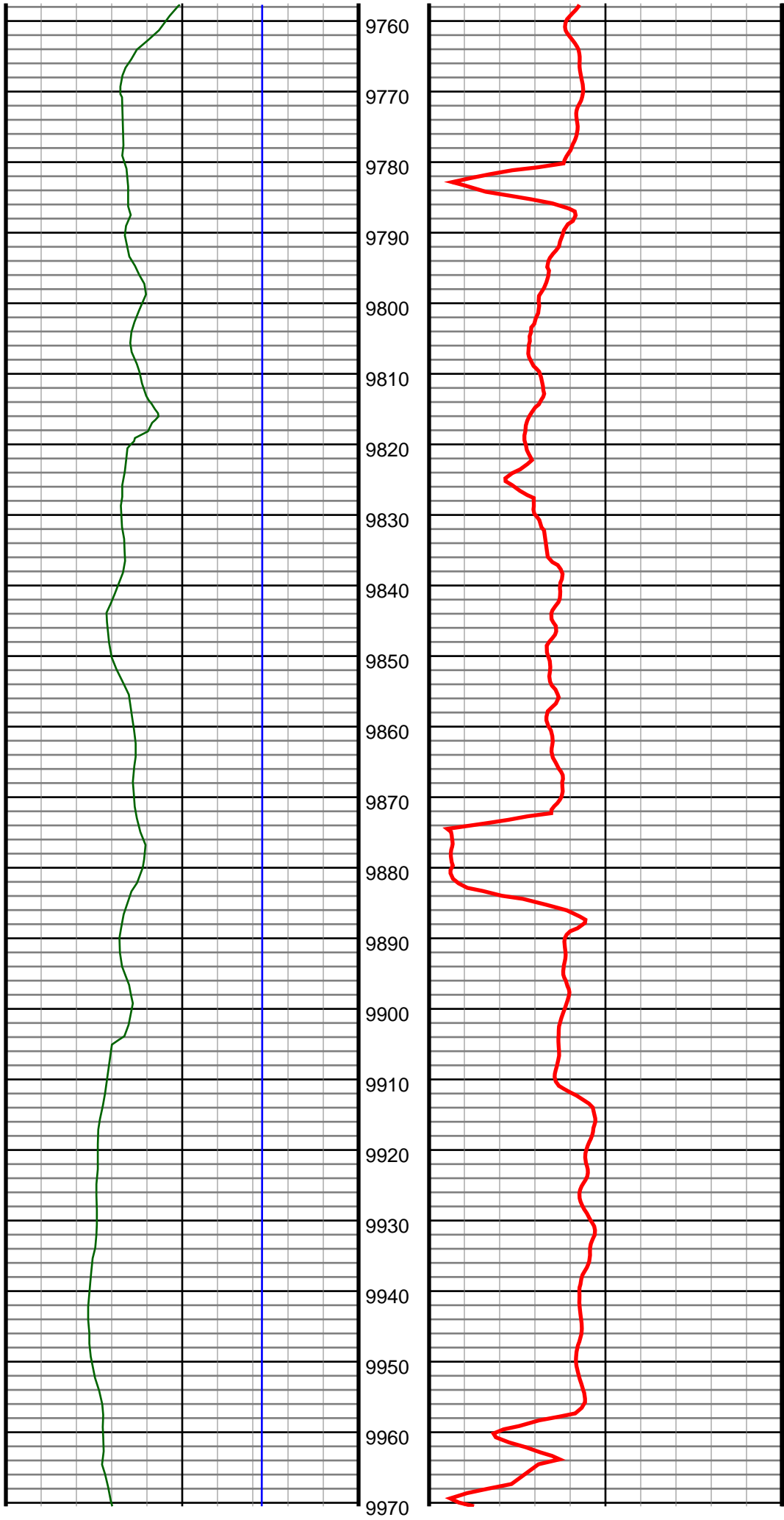


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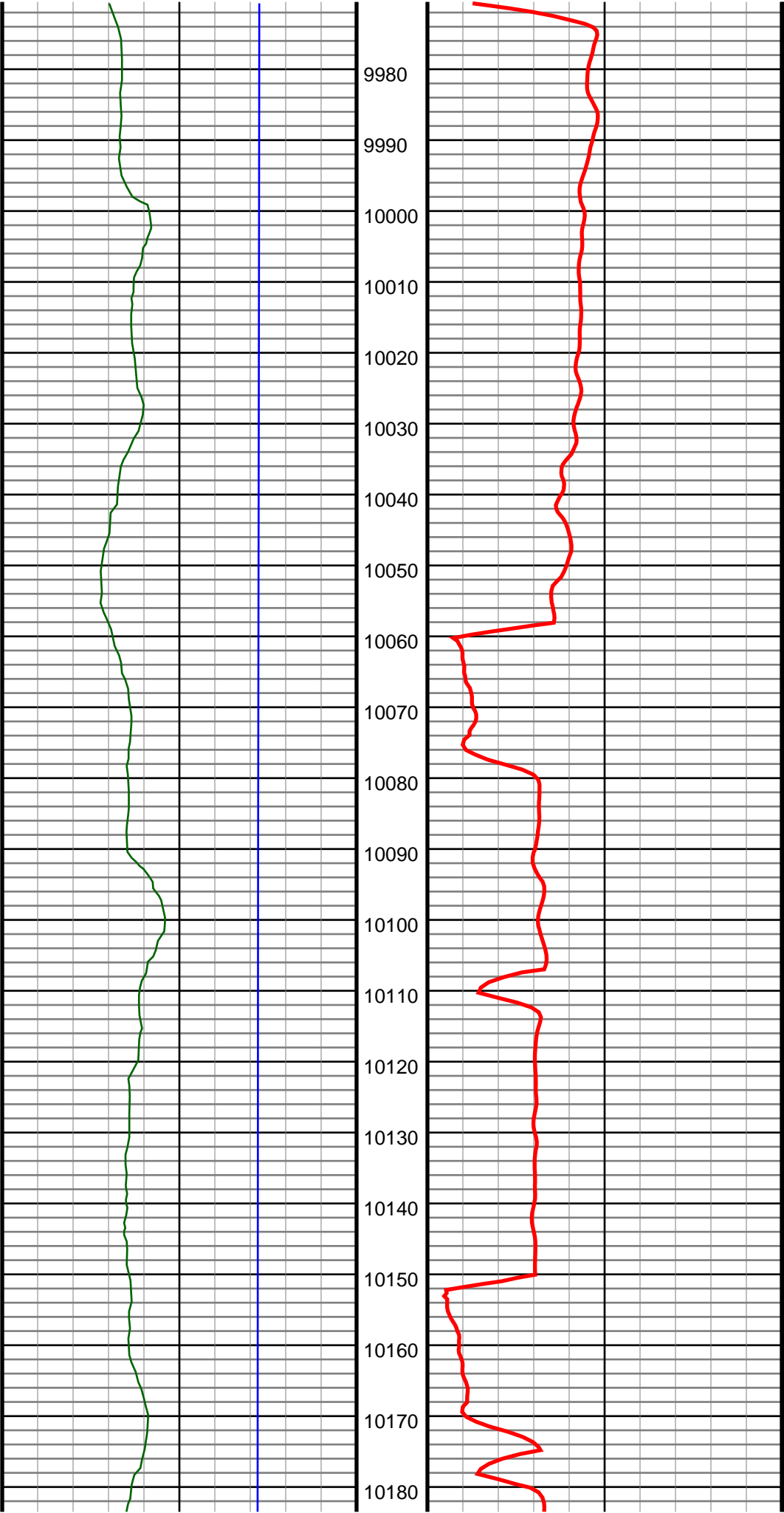
#116 MD(9636.00) Inc(90.0) Azm(270.2) TVD(6871.86)
VS(2803.40) NS(-727.68) EW(-2742.21) TEMP(0.0)

#117 MD(9728.00) Inc(90.0) Azm(270.3) TVD(6871.86)
VS(2894.85) NS(-727.28) EW(-2834.21) TEMP(0.0)



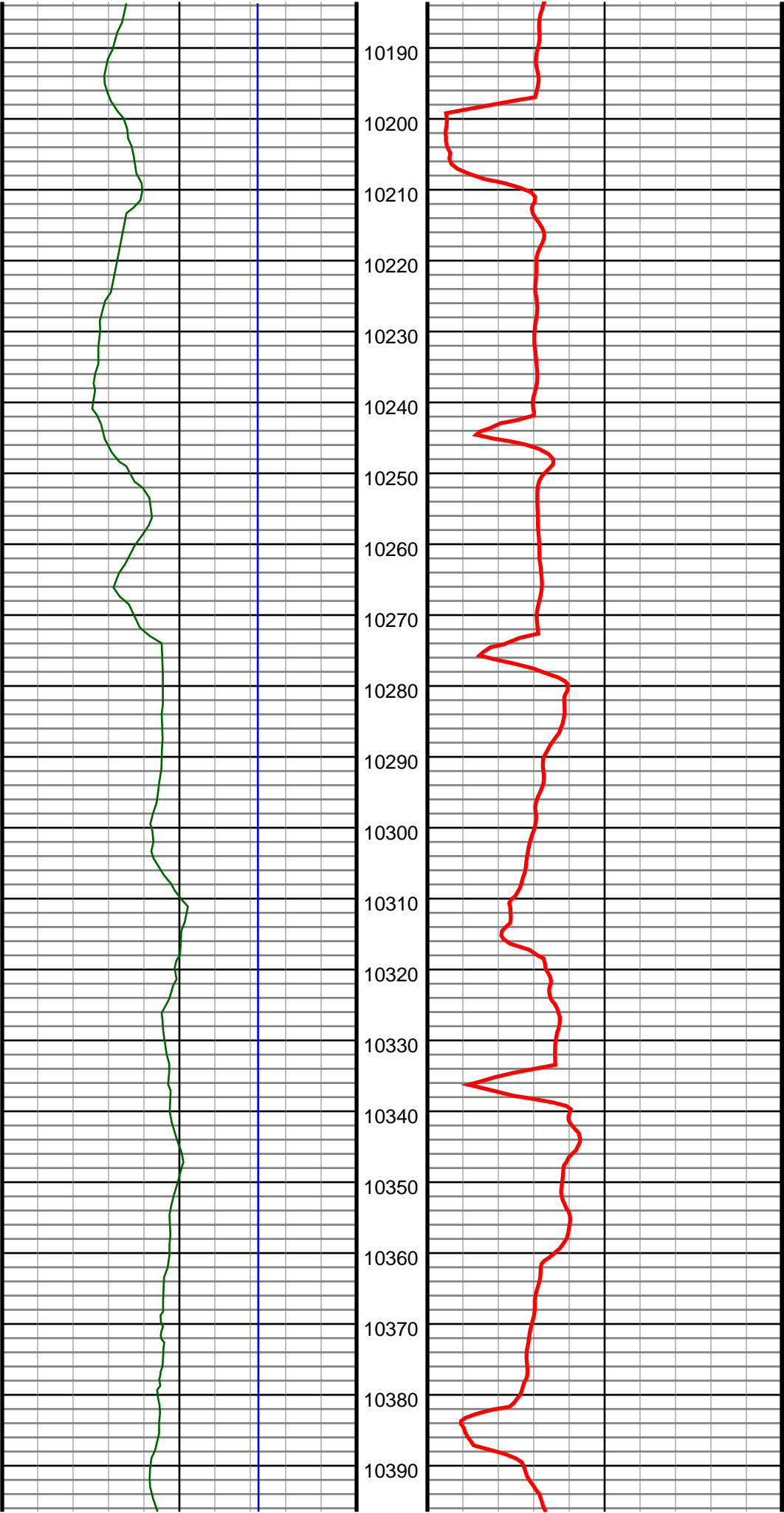
#118 MD(9820.00) Inc(89.5) Azm(269.8) TVD(6872.26)
VS(2986.33) NS(-727.20) EW(-2926.21) TEMP(0.0)

#119 MD(9912.00) Inc(90.7) Azm(270.7) TVD(6872.10)
VS(3077.78) NS(-726.80) EW(-3018.20) TEMP(0.0)



#120 MD(10003.00) Inc(92.3) Azm(271.1) TVD(6869.72)
VS(3168.08) NS(-725.37) EW(-3109.16) TEMP(0.0)

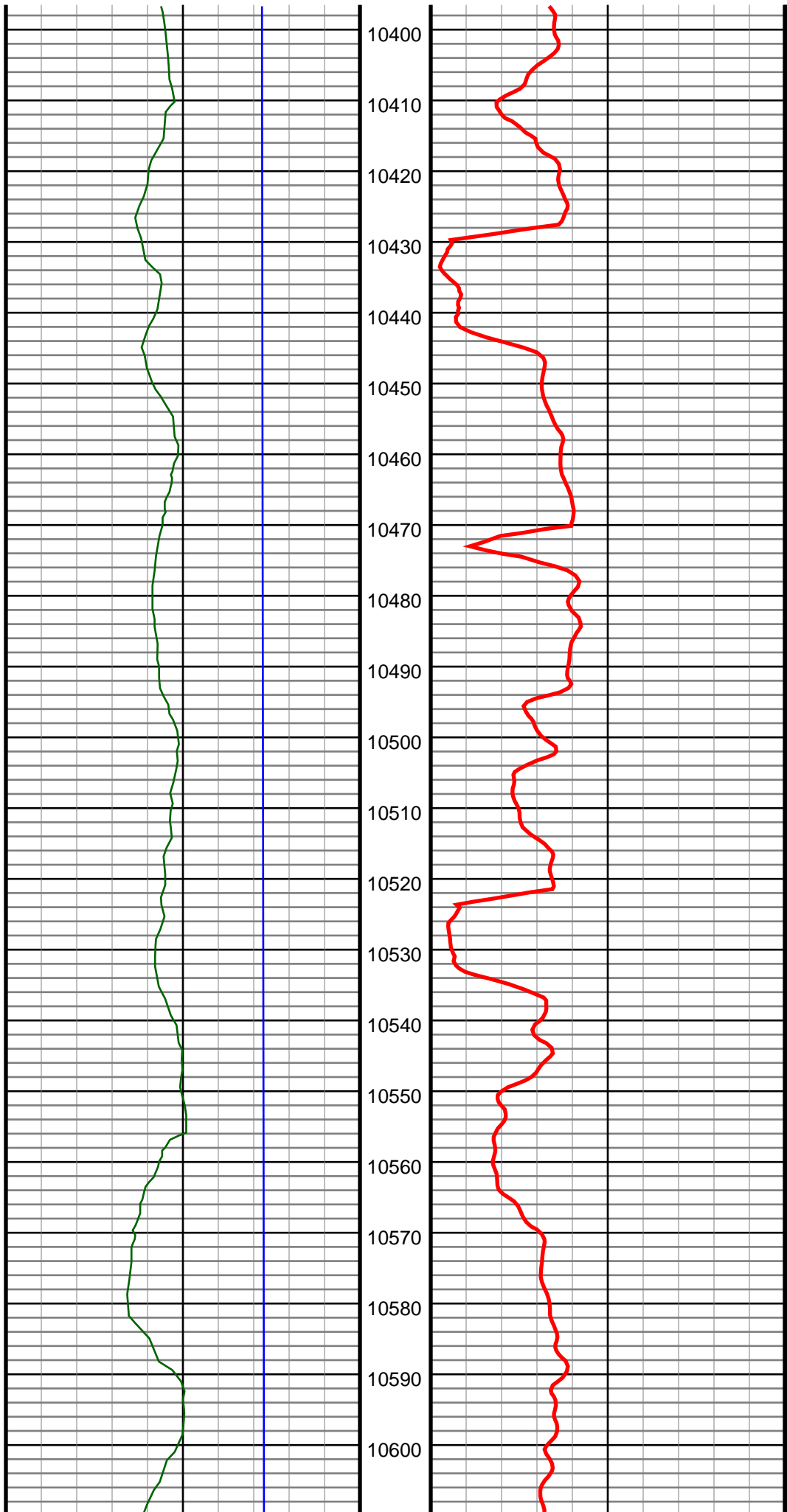
#121 MD(10095.00) Inc(91.8) Azm(270.0) TVD(6866.43)
VS(3259.42) NS(-724.49) EW(-3201.09) TEMP(0.0)



#122 MD(10188.00) Inc(90.2) Azm(269.3) TVD(6864.81)
VS(3351.95) NS(-725.05) EW(-3294.07) TEMP(0.0)

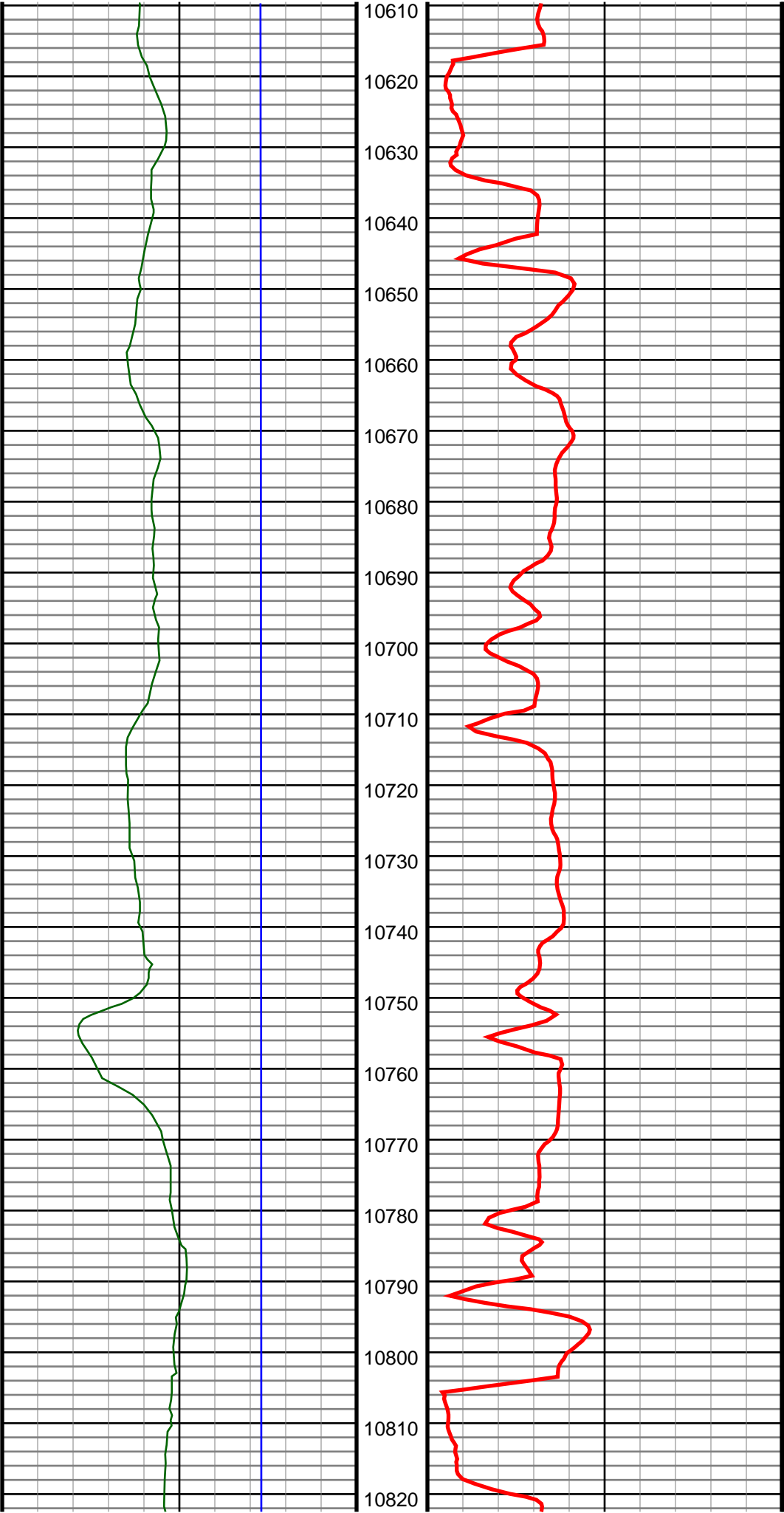
#123 MD(10280.00) Inc(89.0) Azm(268.8) TVD(6865.45)
VS(3443.58) NS(-726.58) EW(-3386.06) TEMP(0.0)

#124 MD(10374.00) Inc(88.7) Azm(268.4) TVD(6867.34)
VS(3537.26) NS(-728.88) EW(-3480.01) TEMP(0.0)



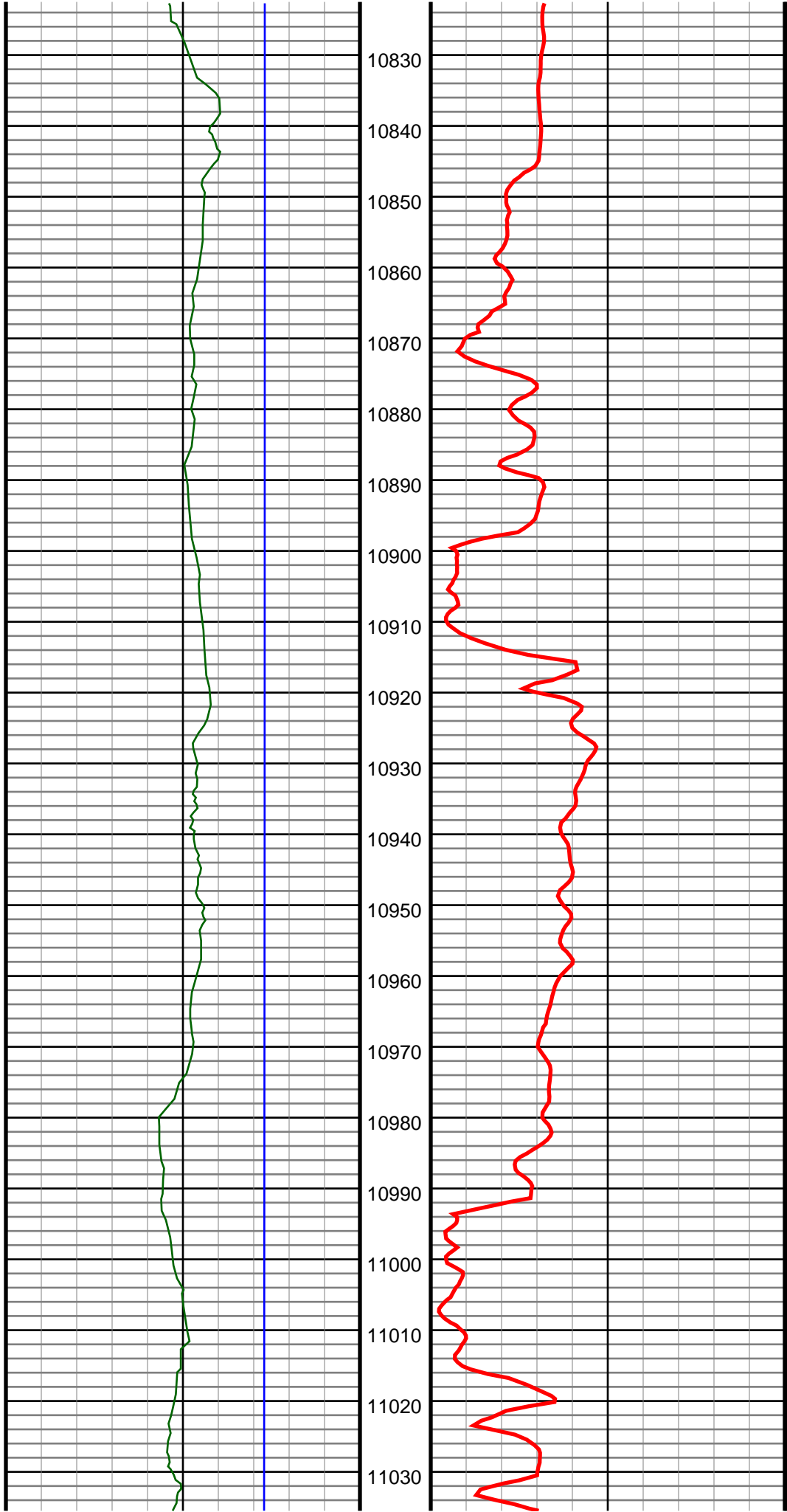
#125 MD(10468.00) Inc(88.0) Azm(269.8) TVD(6870.04)
VS(3630.84) NS(-730.35) EW(-3573.95) TEMP(0.0)

#126 MD(10562.00) Inc(87.8) Azm(270.7) TVD(6873.49)
VS(3724.22) NS(-729.94) EW(-3667.89) TEMP(0.0)



#127 MD(10657.00) Inc(89.5) Azm(271.2) TVD(6875.73)
VS(3818.48) NS(-728.37) EW(-3762.85) TEMP(0.0)

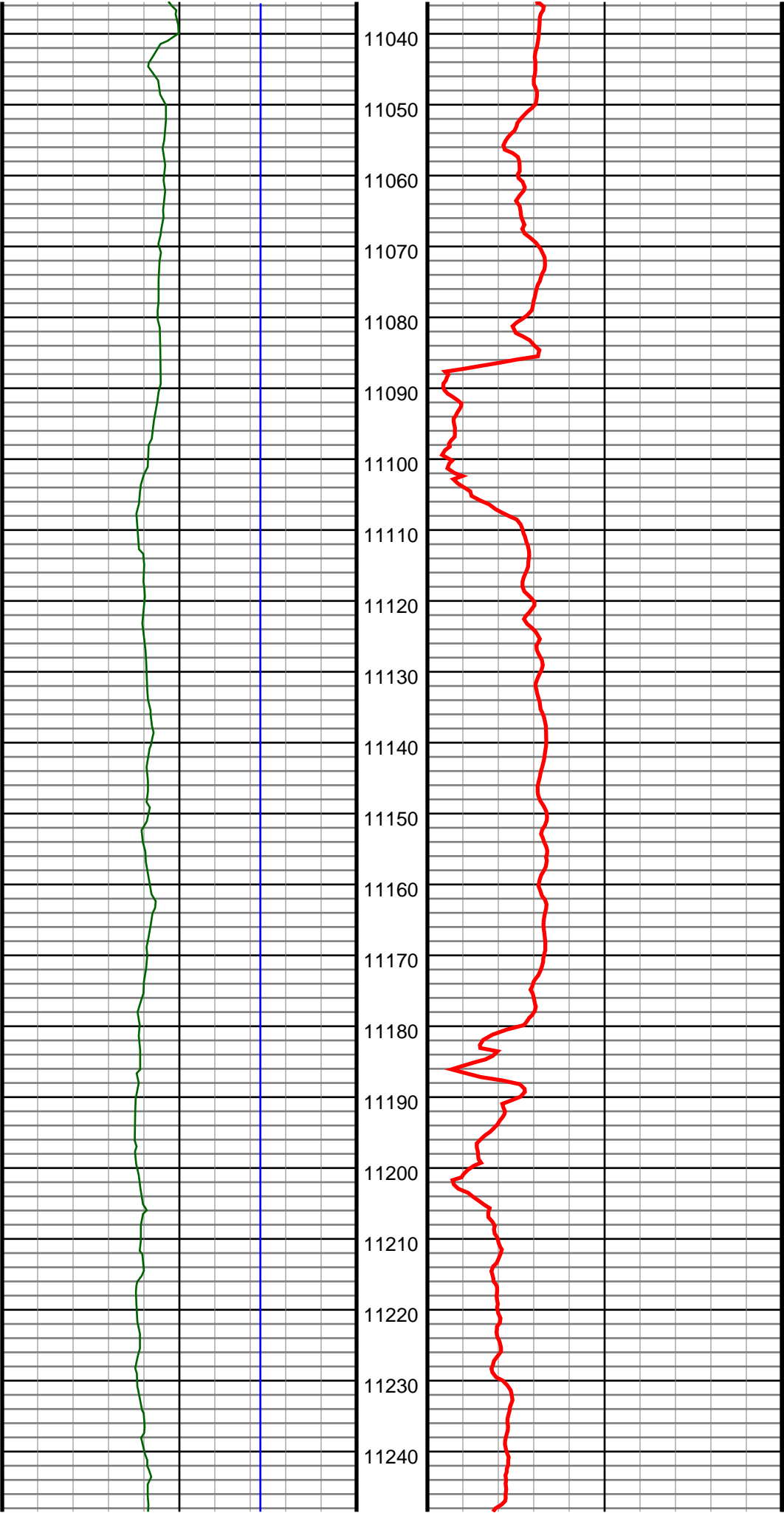
#128 MD(10751.00) Inc(89.2) Azm(271.6) TVD(6876.79)
VS(3911.69) NS(-726.07) EW(-3856.81) TEMP(0.0)



#129 MD(10845.00) Inc(89.8) Azm(271.2) TVD(6877.61)
VS(4004.90) NS(-723.77) EW(-3950.78) TEMP(0.0)

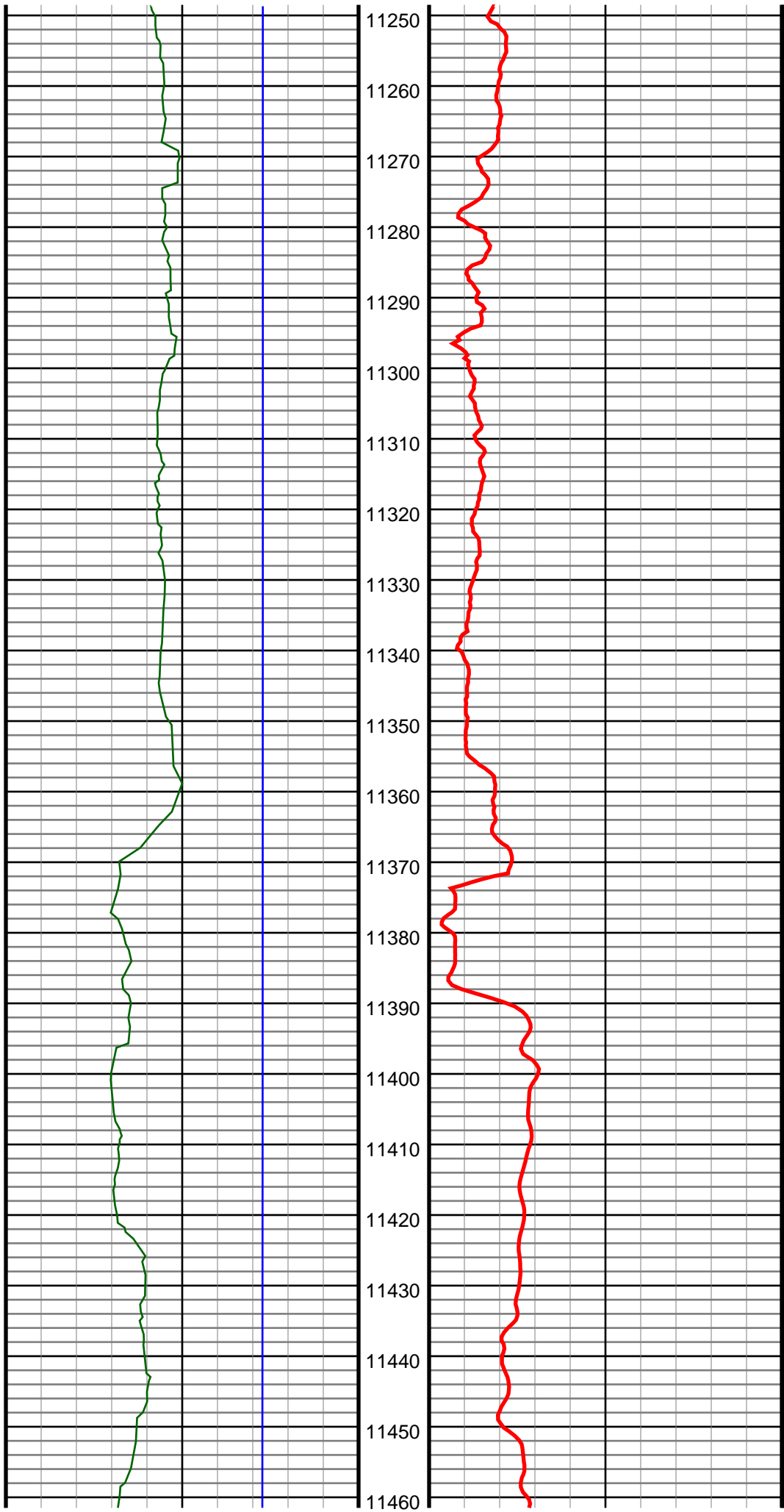
#130 MD(10940.00) Inc(91.0) Azm(271.1) TVD(6876.95)
VS(4099.15) NS(-721.87) EW(-4045.76) TEMP(0.0)

#131 MD(11034.00) Inc(91.2) Azm(269.3) TVD(6875.14)
VS(4192.58) NS(-721.54) EW(-4139.73) TEMP(0.0)



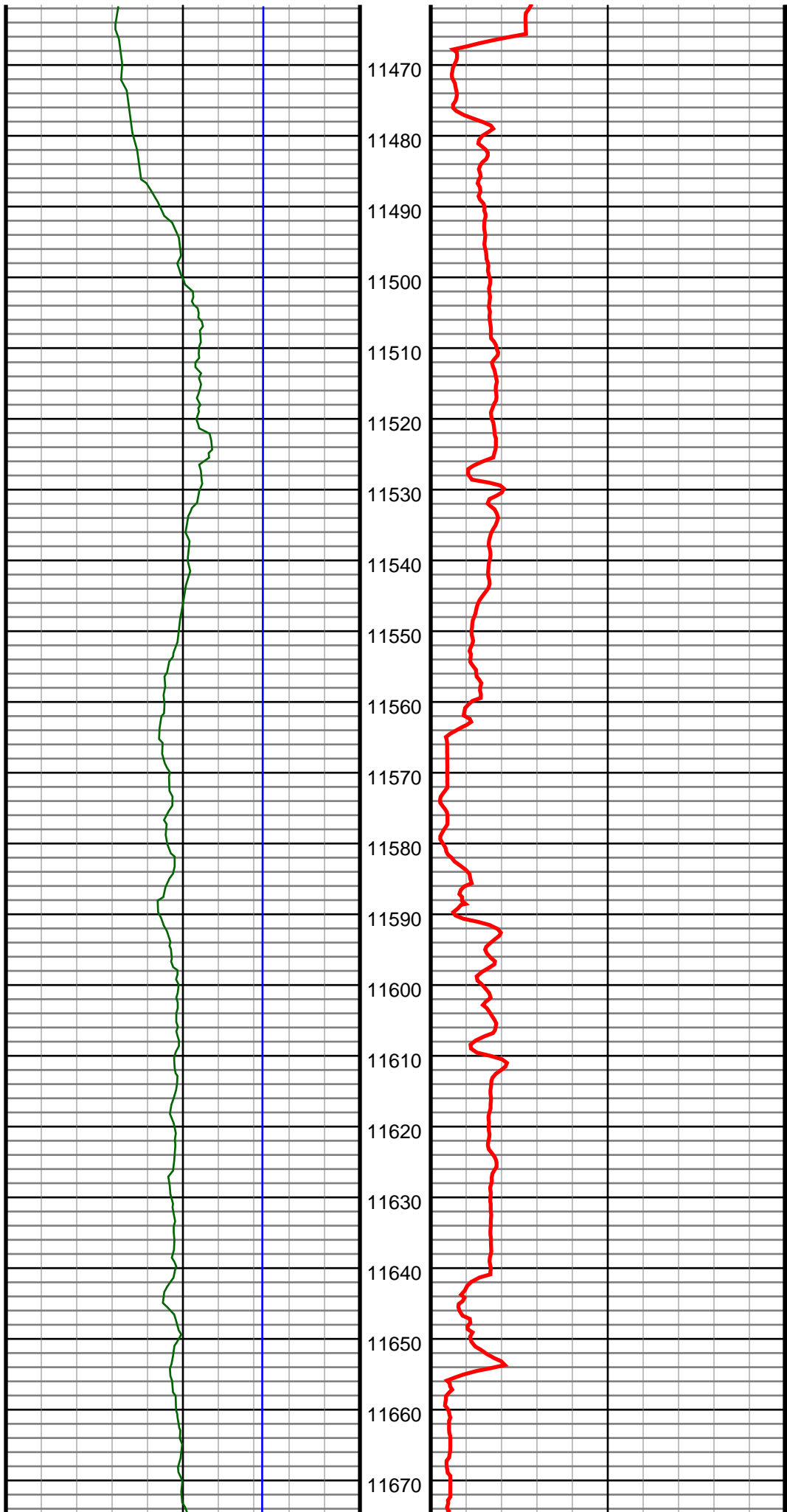
#132 MD(11128.00) Inc(90.0) Azm(268.4) TVD(6874.16)
VS(4286.23) NS(-723.43) EW(-4233.71) TEMP(0.0)

#133 MD(11223.00) Inc(89.9) Azm(267.7) TVD(6874.24)
VS(4380.99) NS(-726.66) EW(-4328.65) TEMP(0.0)



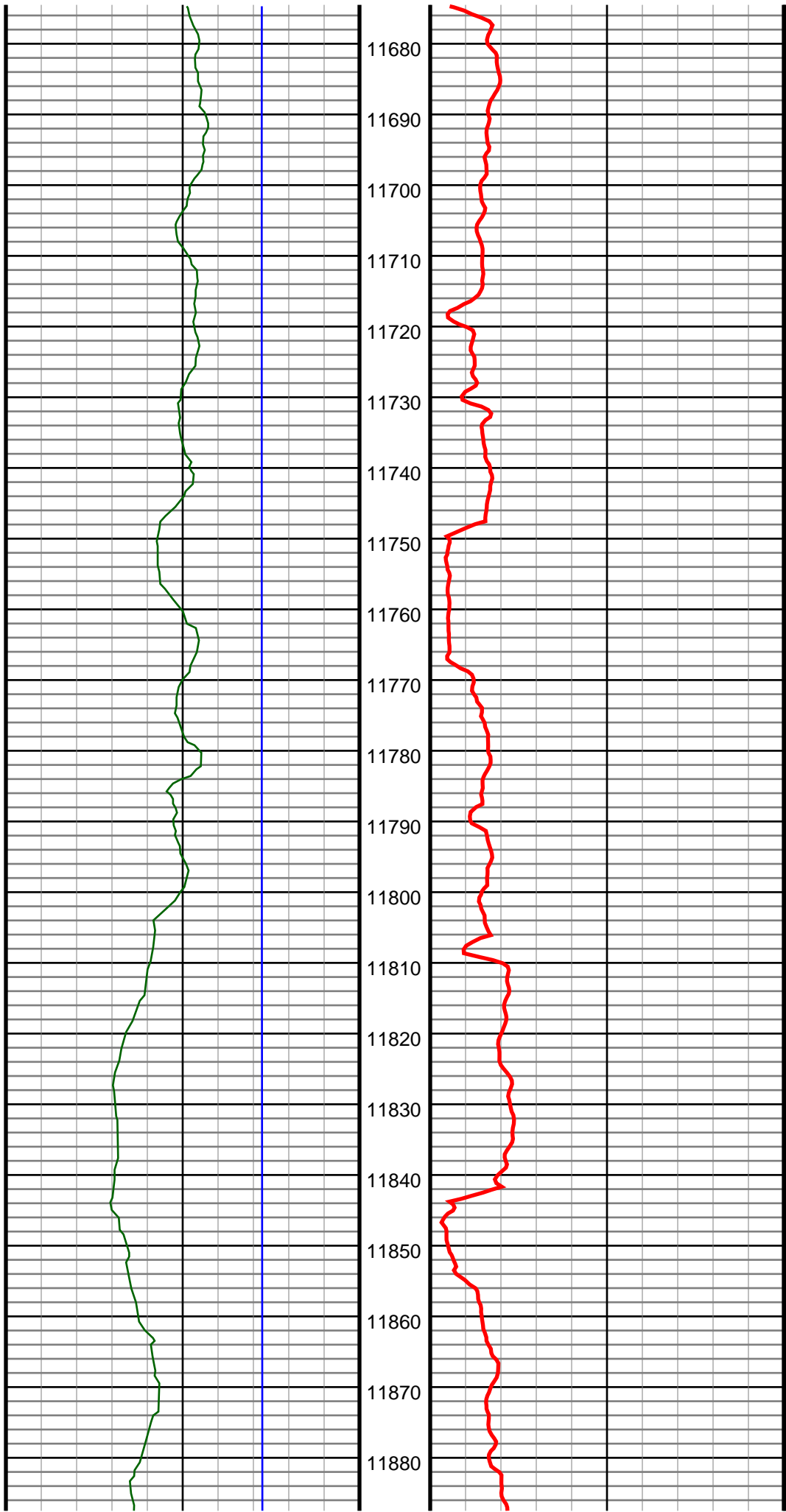
#134 MD(11317.00) Inc(90.0) Azm(267.4) TVD(6874.33)
VS(4474.81) NS(-730.68) EW(-4422.57) TEMP(0.0)

#135 MD(11411.00) Inc(91.0) Azm(270.2) TVD(6873.50)
VS(4568.46) NS(-732.65) EW(-4516.53) TEMP(0.0)



#136 MD(11506.00) Inc(91.1) Azm(271.2) TVD(6871.76)
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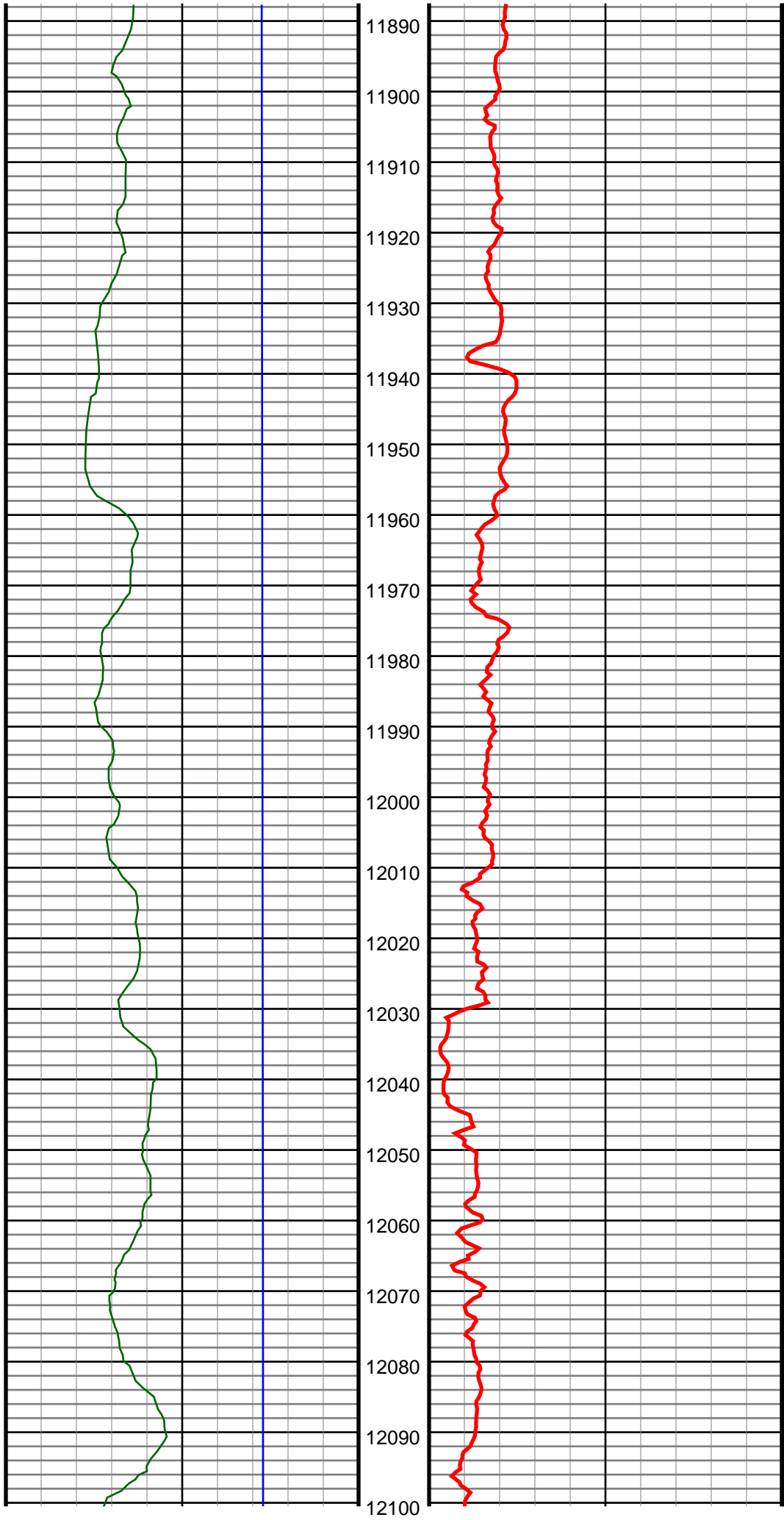
#137 MD(11600.00) Inc(91.3) Azm(267.7) TVD(6869.79)
VS(4756.33) NS(-732.39) EW(-4705.47) TEMP(0.0)



#138 MD(11694.00) Inc(90.6) Azm(267.9) TVD(6868.24)
VS(4850.11) NS(-736.00) EW(-4799.38) TEMP(0.0)

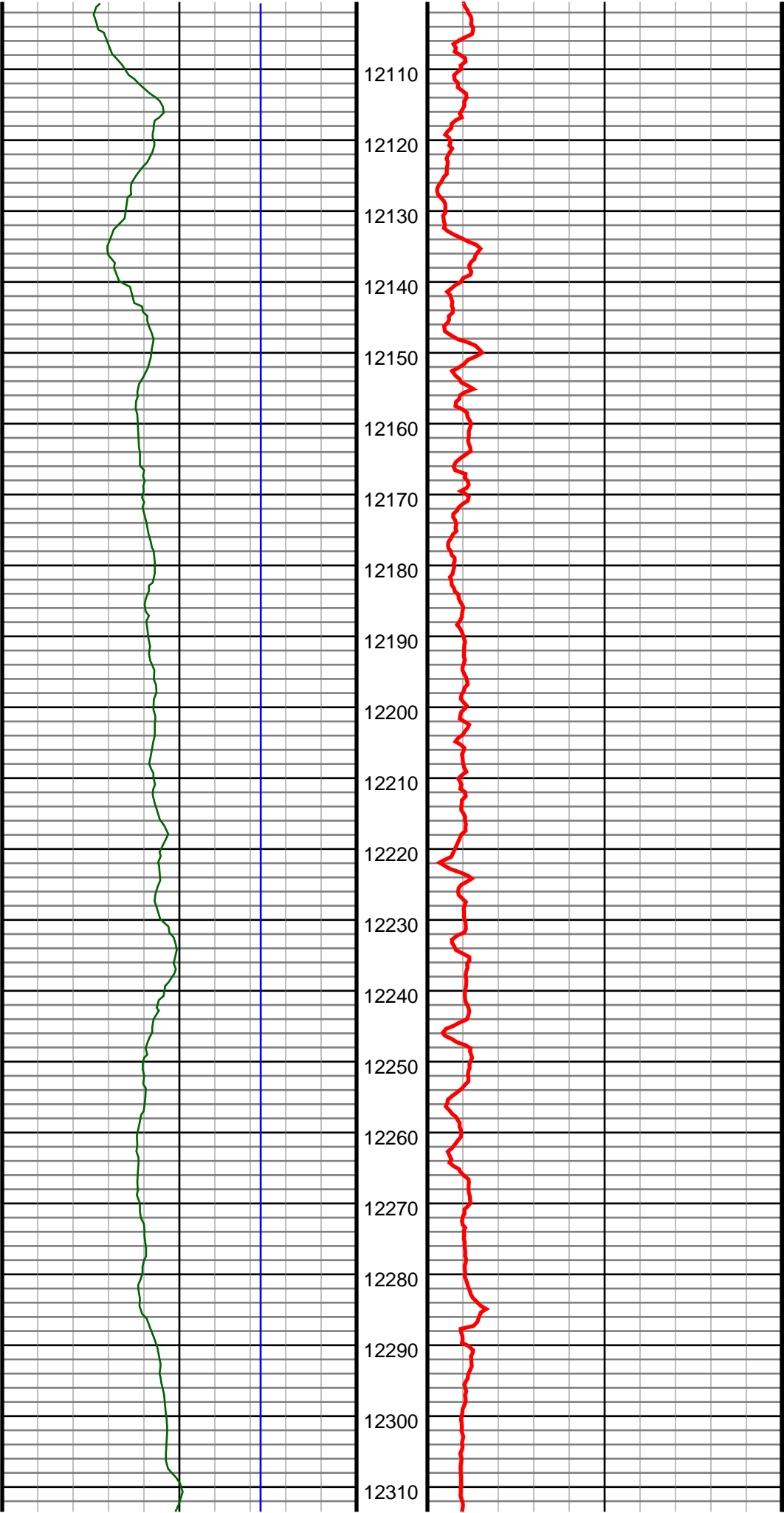
#139 MD(11788.00) Inc(89.2) Azm(268.8) TVD(6868.40)
VS(4943.83) NS(-738.70) EW(-4893.34) TEMP(0.0)

#140 MD(11882.00) Inc(88.5) Azm(268.9) TVD(6870.29)
VS(5037.47) NS(-740.59) EW(-4987.30) TEMP(0.0)



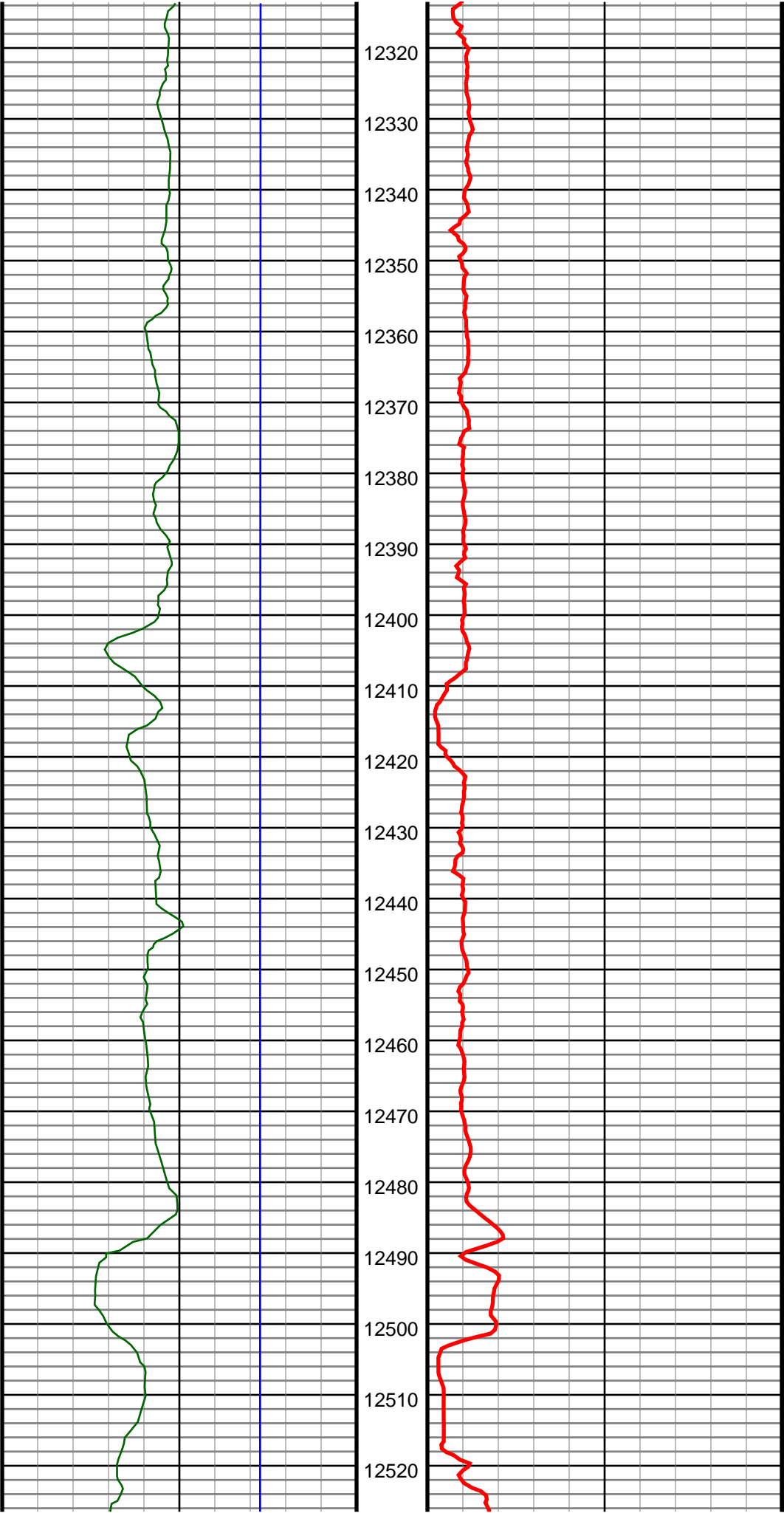
#141 MD(11976.00) Inc(88.7) Azm(268.8) TVD(6872.58)
VS(5131.10) NS(-742.47) EW(-5081.26) TEMP(0.0)

#142 MD(12071.00) Inc(88.7) Azm(270.5) TVD(6874.74)
VS(5225.61) NS(-743.05) EW(-5176.23) TEMP(0.0)



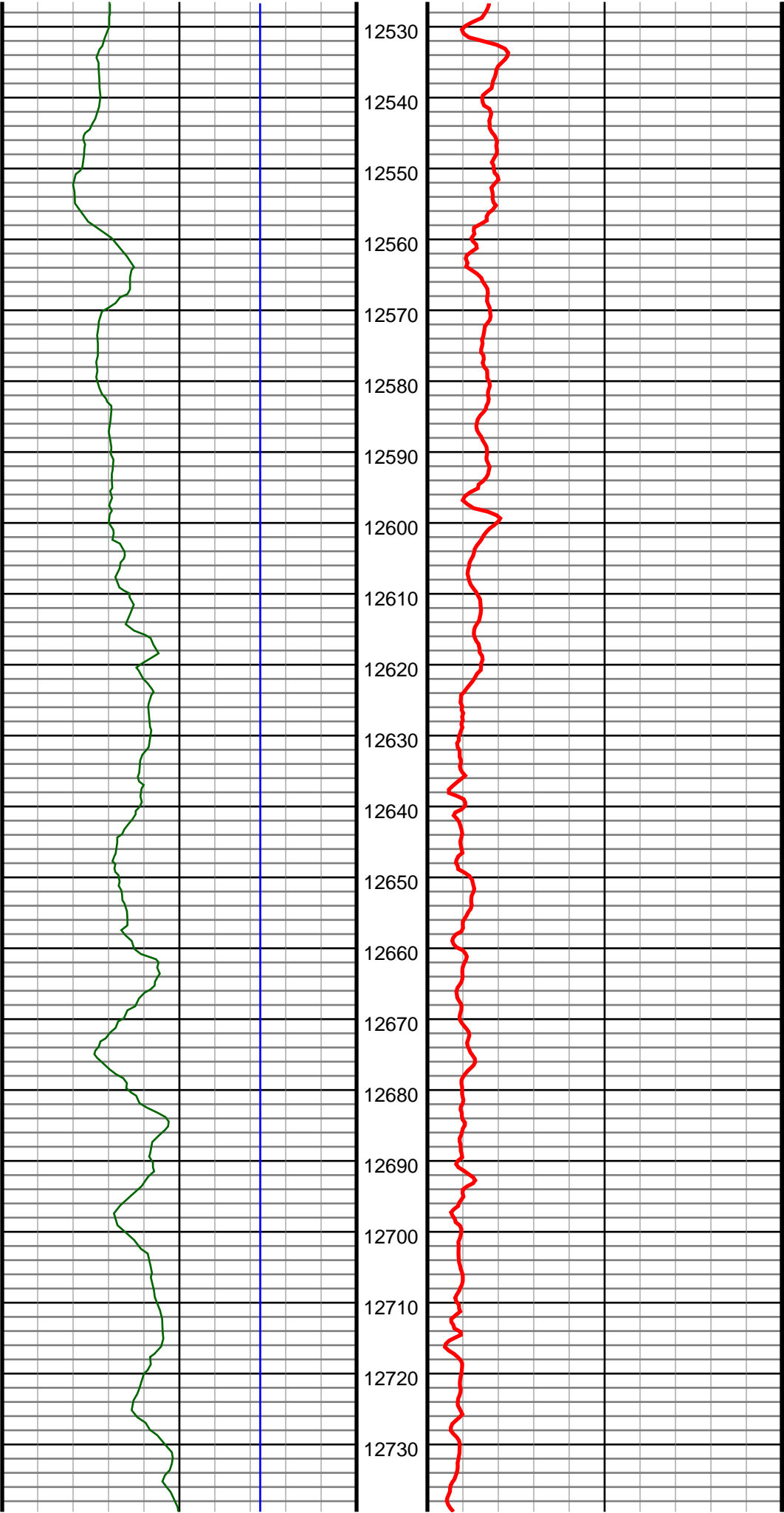
#143 MD(12166.00) Inc(90.2) Azm(270.3) TVD(6875.65)
VS(5320.01) NS(-742.39) EW(-5271.22) TEMP(0.0)

#144 MD(12260.00) Inc(90.2) Azm(270.3) TVD(6875.32)
VS(5413.44) NS(-741.90) EW(-5365.22) TEMP(0.0)



#145 MD(12354.00) Inc(90.7) Azm(270.9) TVD(6874.58)
VS(5506.81) NS(-740.91) EW(-5459.21) TEMP(0.0)

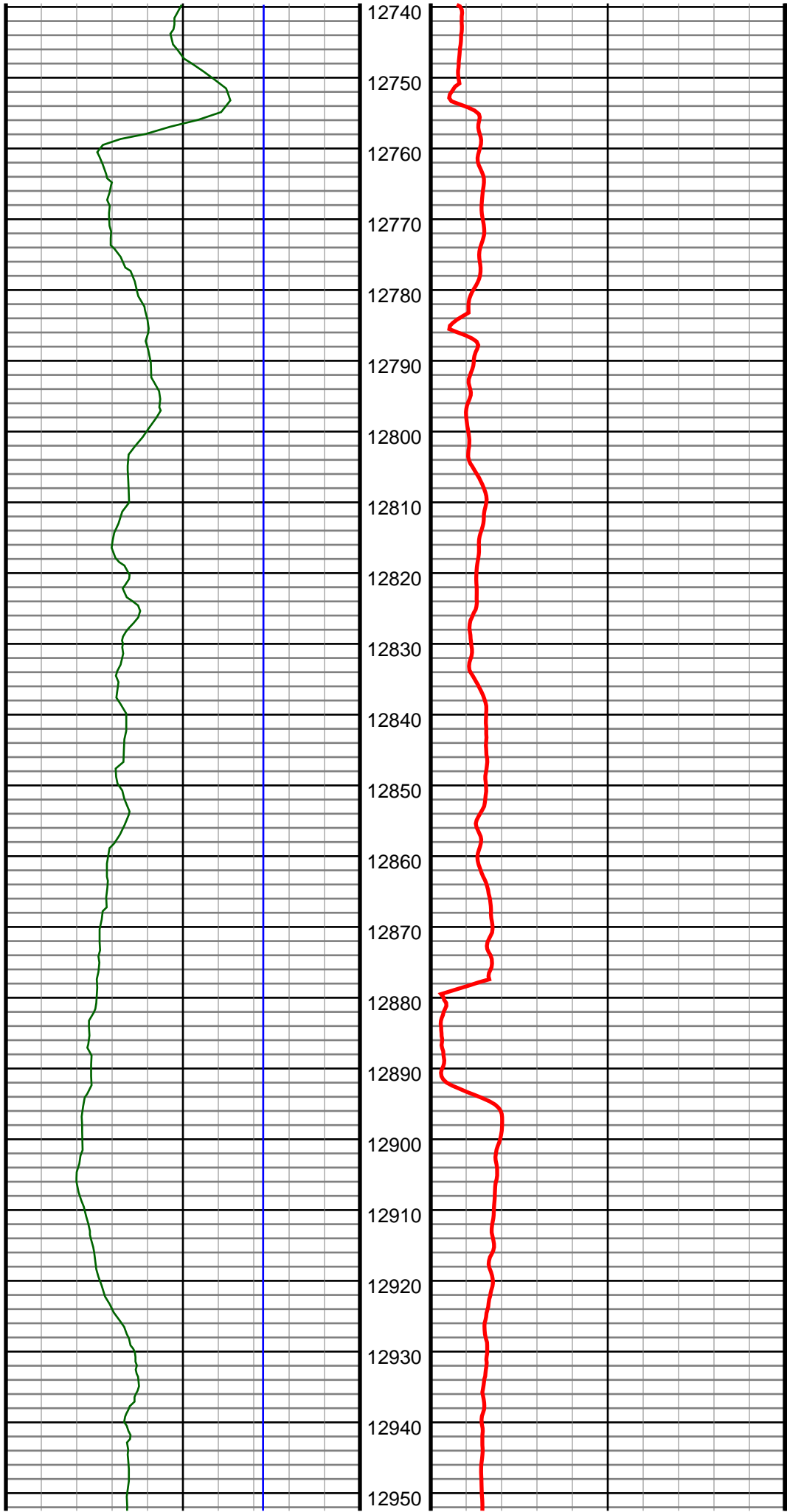
#146 MD(12448.00) Inc(90.8) Azm(269.8) TVD(6873.35)
VS(5600.22) NS(-740.34) EW(-5553.20) TEMP(0.0)



#147 MD(12542.00) Inc(89.2) Azm(269.6) TVD(6873.35)
VS(5693.74) NS(-740.83) EW(-5647.19) TEMP(0.0)

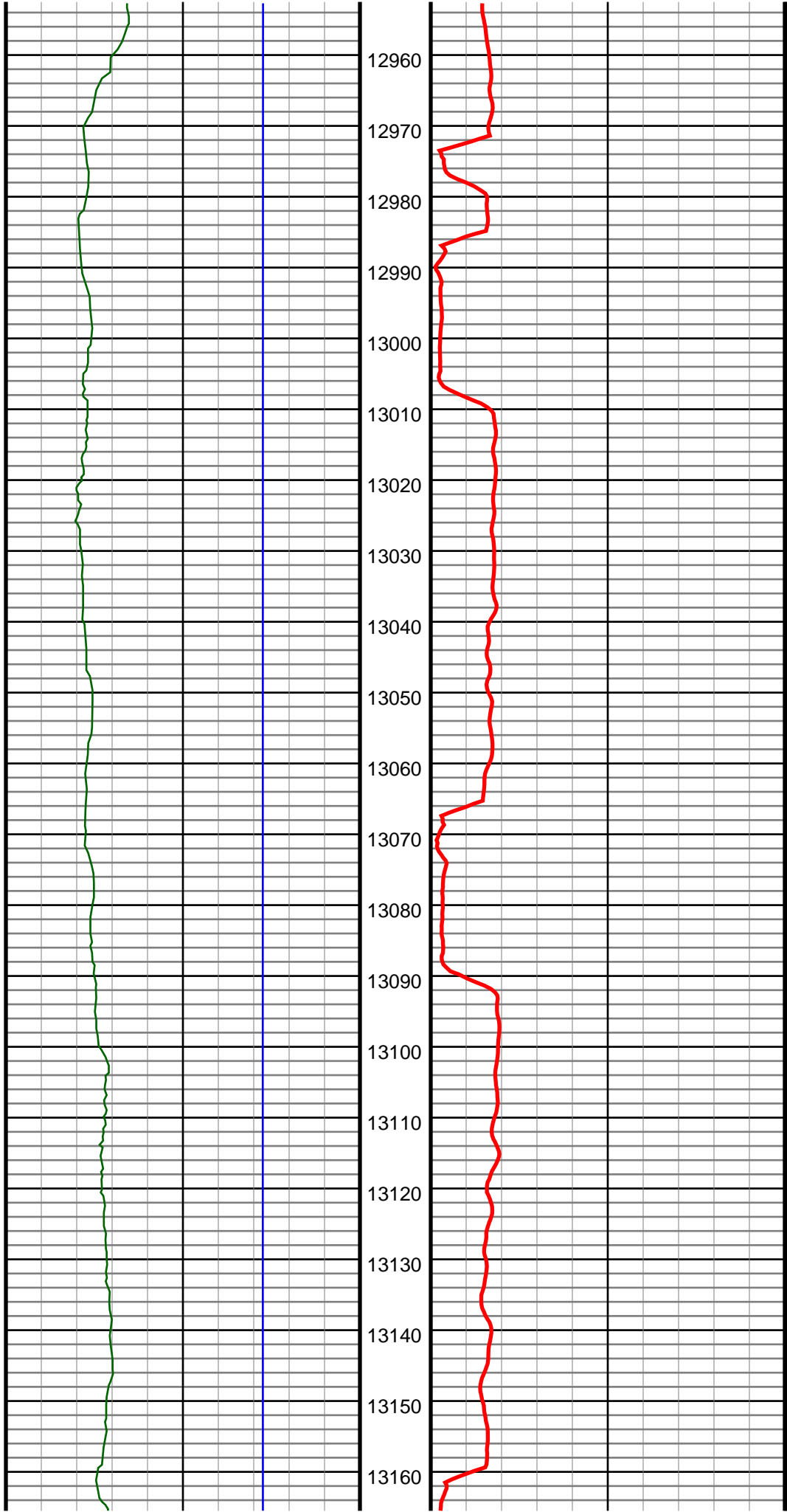
#148 MD(12636.00) Inc(90.0) Azm(270.0) TVD(6874.01)
VS(5787.26) NS(-741.16) EW(-5741.19) TEMP(0.0)

#149 MD(12730.00) Inc(90.3) Azm(270.2) TVD(6873.76)
VS(5880.72) NS(-741.00) EW(-5835.19) TEMP(0.0)



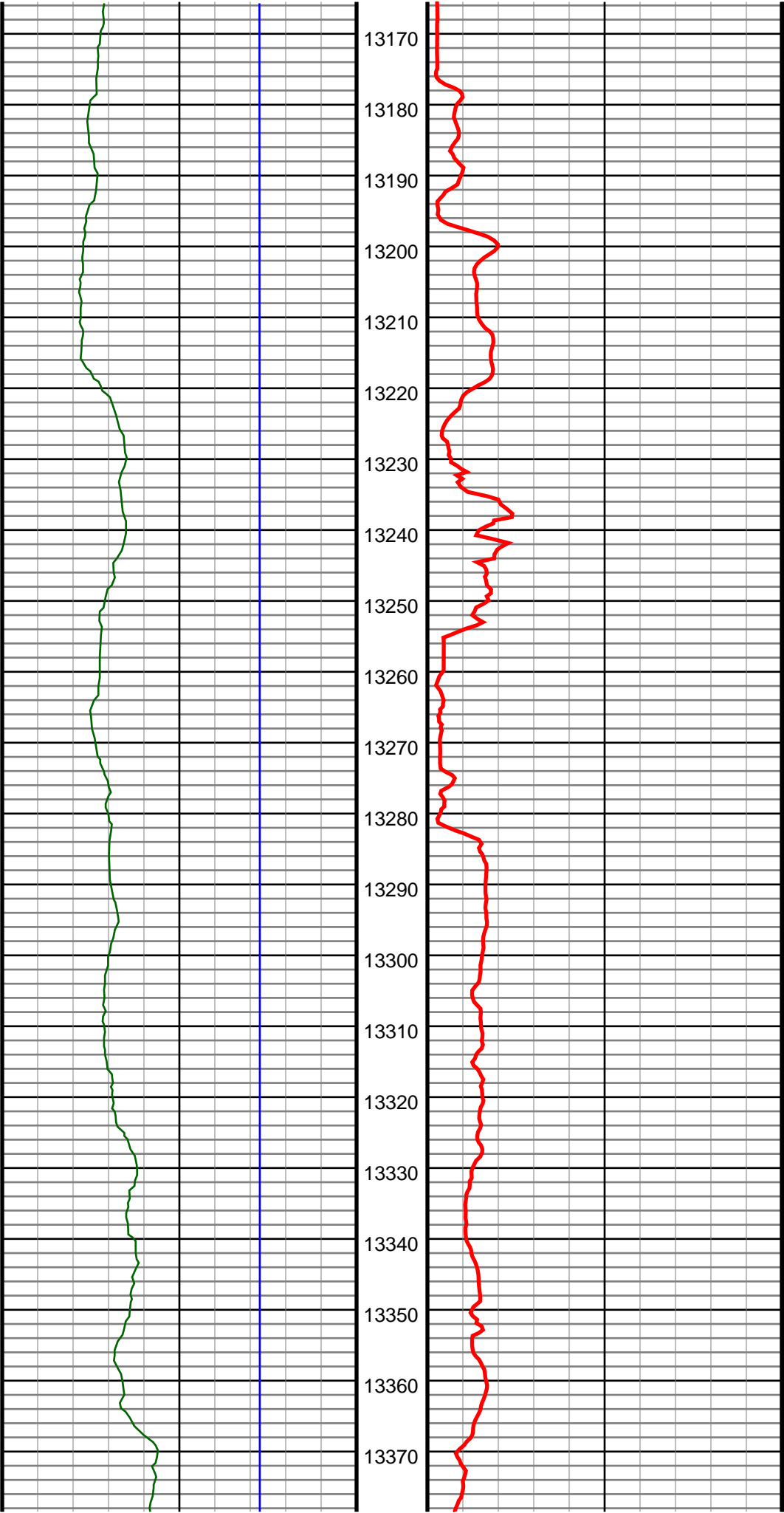
#150 MD(12824.00) Inc(90.7) Azm(270.2) TVD(6872.94)
VS(5974.16) NS(-740.67) EW(-5929.18) TEMP(0.0)

#151 MD(12918.00) Inc(90.6) Azm(270.3) TVD(6871.88)
VS(6067.59) NS(-740.26) EW(-6023.18) TEMP(0.0)



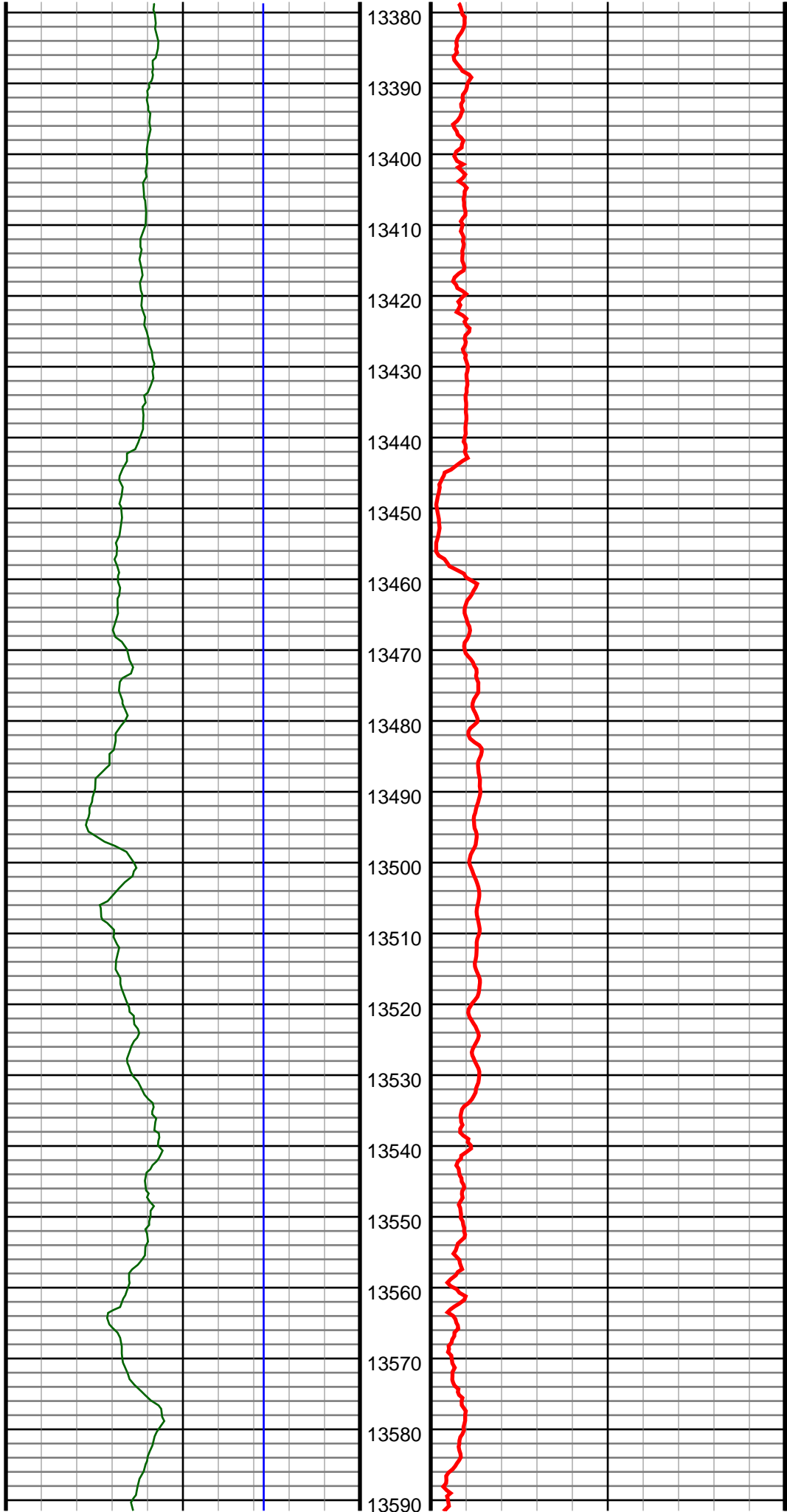
#152 MD(13012.00) Inc(90.4) Azm(270.7) TVD(6871.06)
VS(6160.98) NS(-739.44) EW(-6117.17) TEMP(0.0)

#153 MD(13106.00) Inc(90.1) Azm(269.1) TVD(6870.65)
VS(6254.48) NS(-739.60) EW(-6211.16) TEMP(0.0)



#154 MD(13200.00) Inc(89.0) Azm(267.4) TVD(6871.39)
VS(6348.21) NS(-742.47) EW(-6305.11) TEMP(0.0)

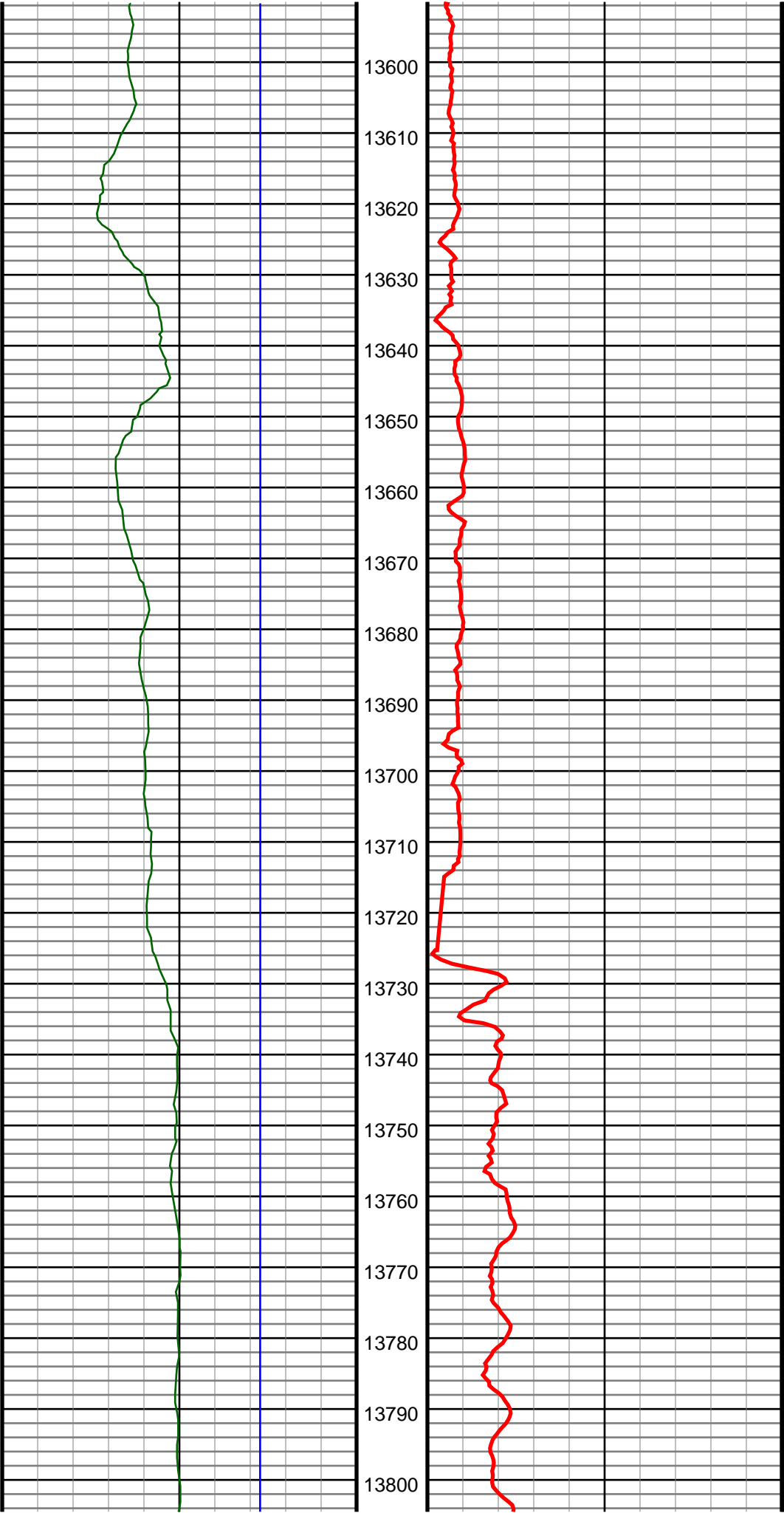
#155 MD(13294.00) Inc(89.7) Azm(269.8) TVD(6872.45)
VS(6441.89) NS(-744.77) EW(-6399.07) TEMP(0.0)



#156 MD(13388.00) Inc(90.6) Azm(270.5) TVD(6872.21)
VS(6535.34) NS(-744.52) EW(-6493.07) TEMP(0.0)

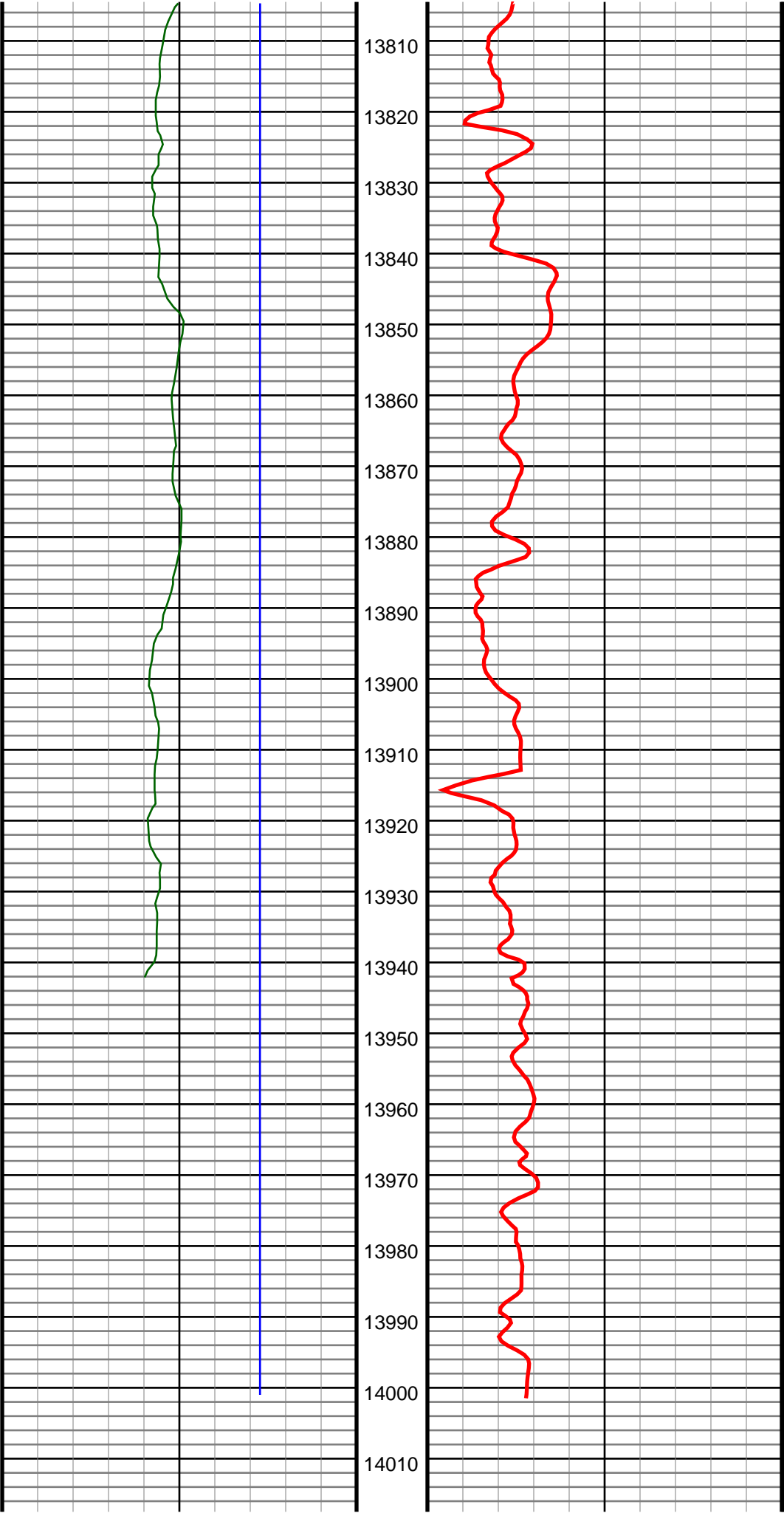
#157 MD(13482.00) Inc(89.0) Azm(269.3) TVD(6872.53)
VS(6628.84) NS(-744.69) EW(-6587.06) TEMP(0.0)

#158 MD(13576.00) Inc(89.4) Azm(268.9) TVD(6873.85)
VS(6722.45) NS(-746.16) EW(-6681.04) TEMP(0.0)



#159 MD(13670.00) Inc(90.2) Azm(269.5) TVD(6874.17)
VS(6816.06) NS(-747.48) EW(-6775.03) TEMP(0.0)

#160 MD(13765.00) Inc(90.4) Azm(269.3) TVD(6873.68)
VS(6910.63) NS(-748.47) EW(-6870.02) TEMP(0.0)



#161 MD(13859.00) Inc(90.5) Azm(269.3) TVD(6872.94)
VS(7004.23) NS(-749.62) EW(-6964.01) TEMP(0.0)

#162 MD(13946.00) Inc(89.7) Azm(269.3) TVD(6872.79)
VS(7090.85) NS(-750.68) EW(-7051.01) TEMP(0.0)

Gamma		
API		
0.0		300.0
300.0		600.0
TVD		
ft		
6000.0		7200.0
7200.0		14400.0

ROP		
0		
0.0		800.0
800.0		1600.0