



CS-Bittersweet 3-1-13

MD
5":100'

Company: Extraction Oil and Gas

Well Name: CS-Bittersweet 3-1-13

API: 05-123-42937-00

County/Parish: Weld

State: CO

Country: USA

Job number: 2017-172-341

Field: DJ Basin

Rig Id: Patterson 341

Survey Company: Total Directional

Company Man Kalyn Holgate

Company Man Larry Siegel

Day DD Lee Holiday

Night DD Chris Lewis

Day MWD Tim Sinning

Night MWD Nolan Cuthbert

Log measurements: Gamma Ray

Depth measured from: Ground Level ft

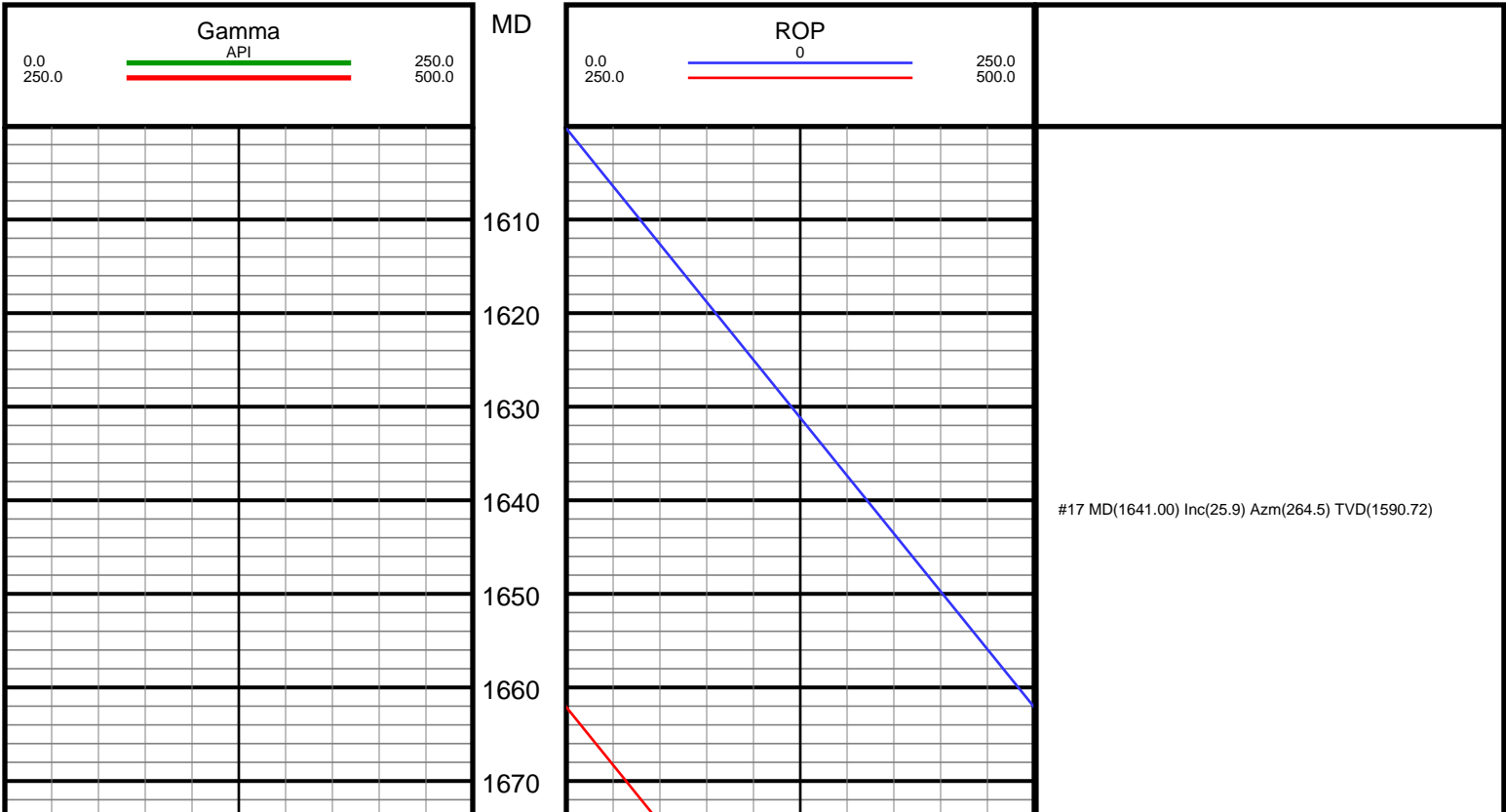
Maximum temperature:

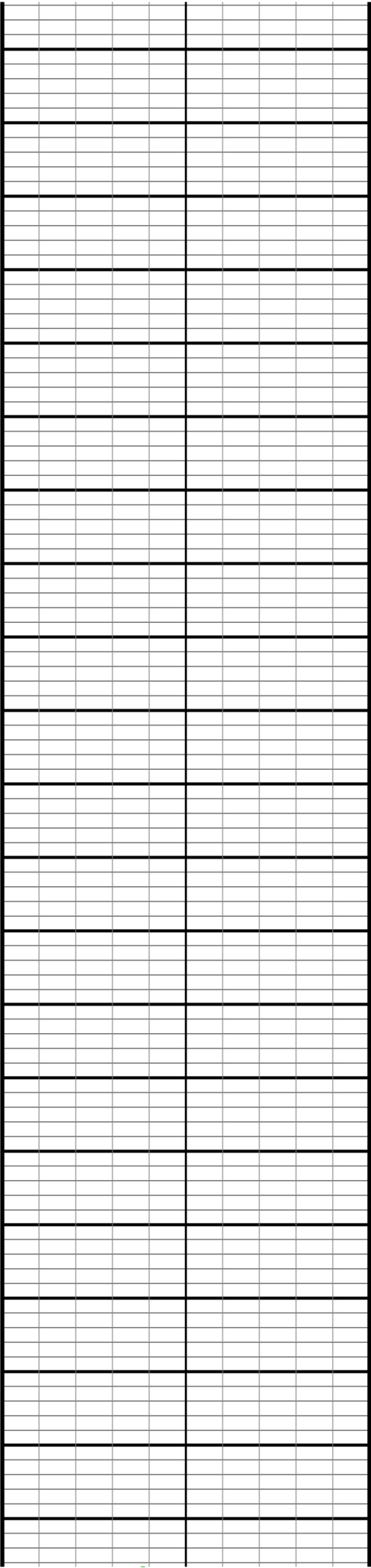
Depth	Date
Start: 0 ft	6/22/2017
End: ft	

Casing	Depth	Size	Mud Type: OBM	Elevations
Surface:	1560 ft	9.625"	Density:	KB: 4690 ft
Intermediate:			Viscosity:	GL: 4665 ft
			Rm:	DF: 25 ft
			Rmf:	
			Rmc:	

Run	Bit Size	Gamma	Offsets	Survey	Start	End	Dates	Start	End
1	13.25"			60.00 ft	0 ft	1602 ft		6/22/2017	6/22/2017
2	8.75"	55.00 ft		60.00 ft	1602 ft	8275 ft		6/23/2017	6/25/2017
3	8.75"	43.00 ft		49.00 ft	8275 ft	9466 ft		6/25/2017	6/25/2017
4	8.75"	48.26 ft		54.00 ft	9466 ft		6/25/2017		
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Total Directional 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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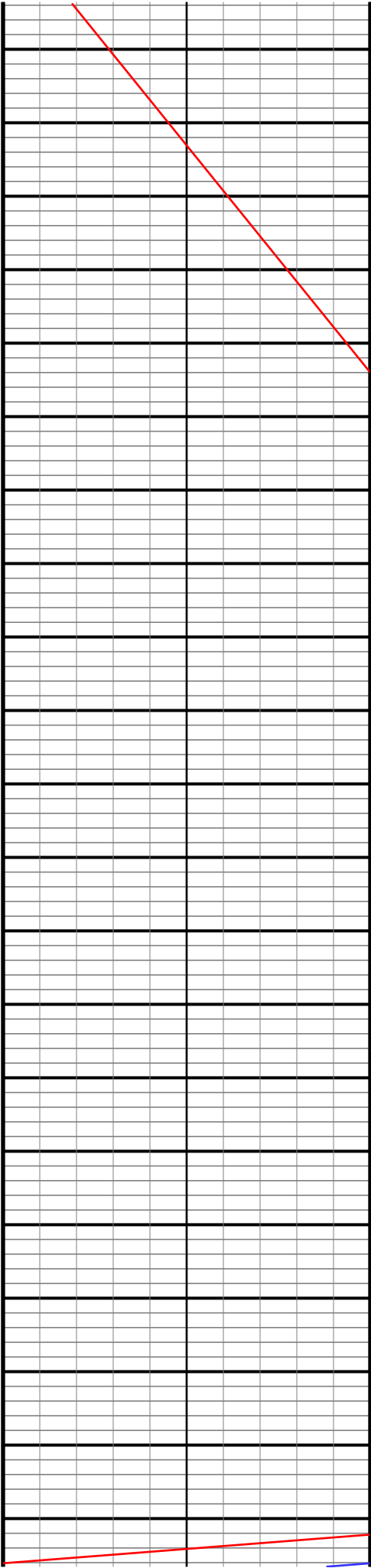
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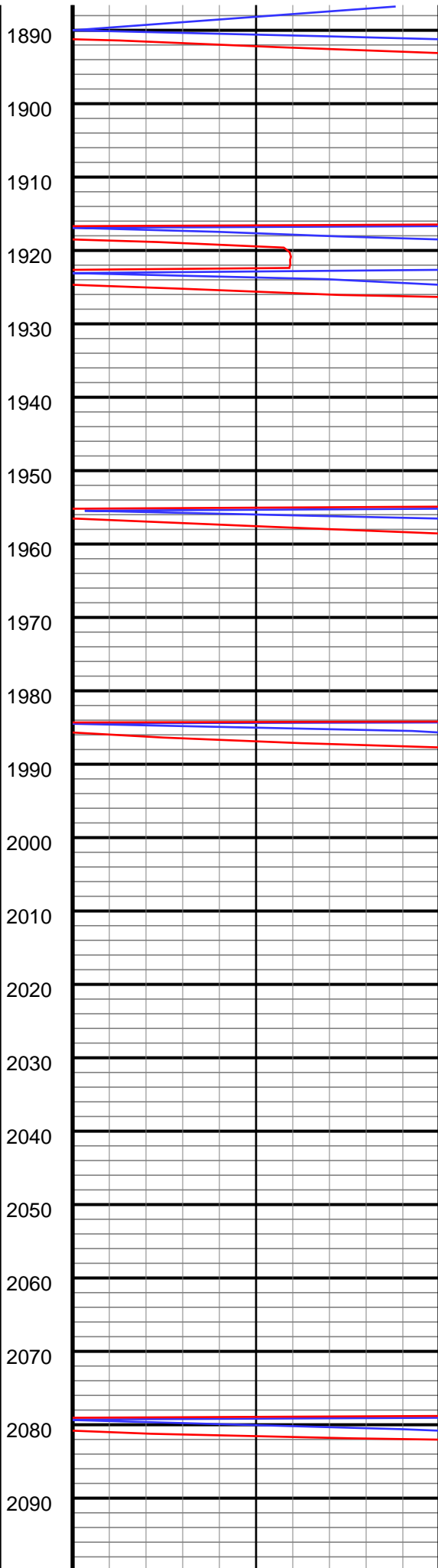
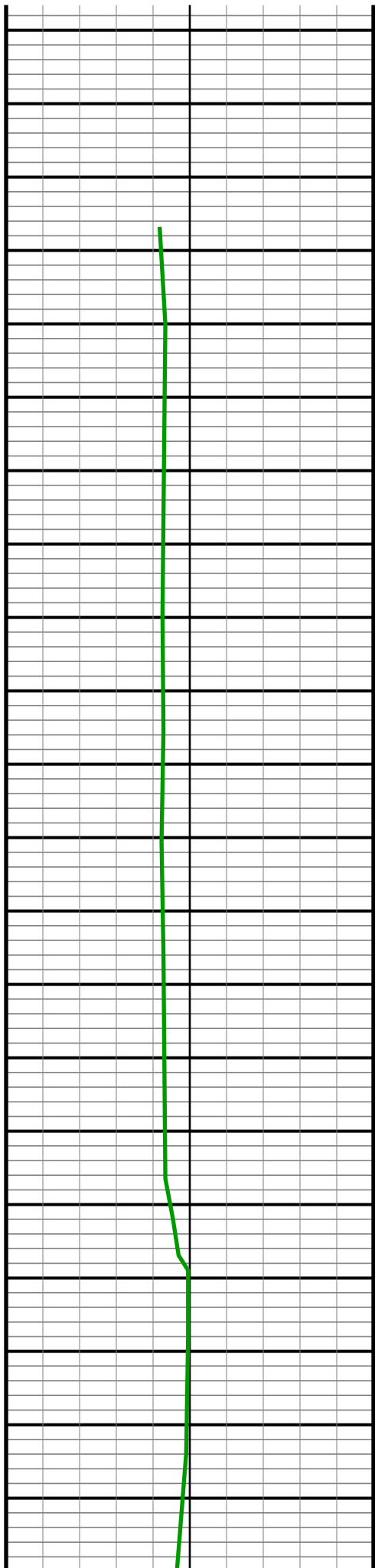
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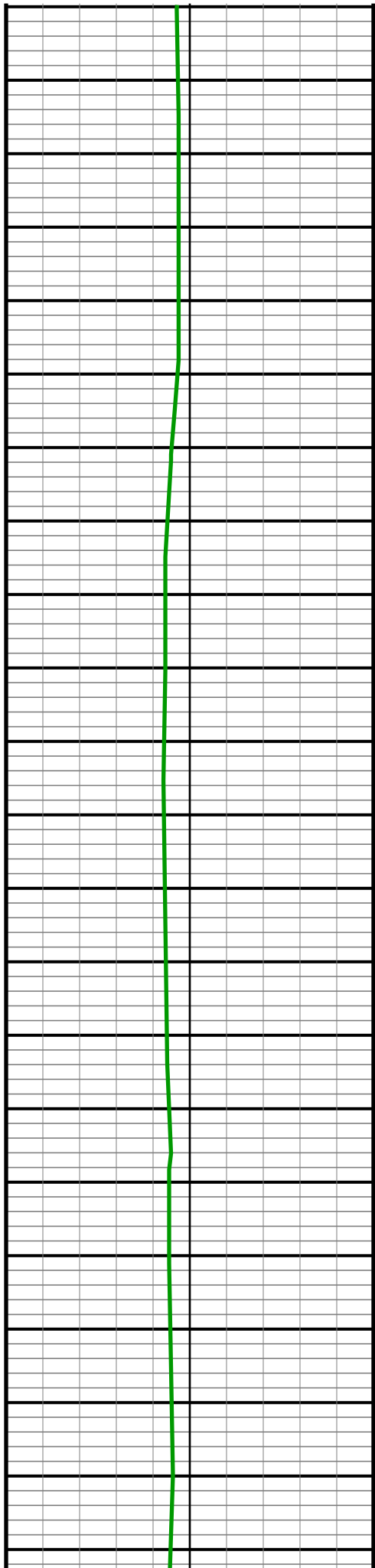
#18 MD(1736.00) Inc(27.5) Azm(264.9) TVD(1675.58)

#19 MD(1831.00) Inc(29.4) Azm(266.5) TVD(1759.11)

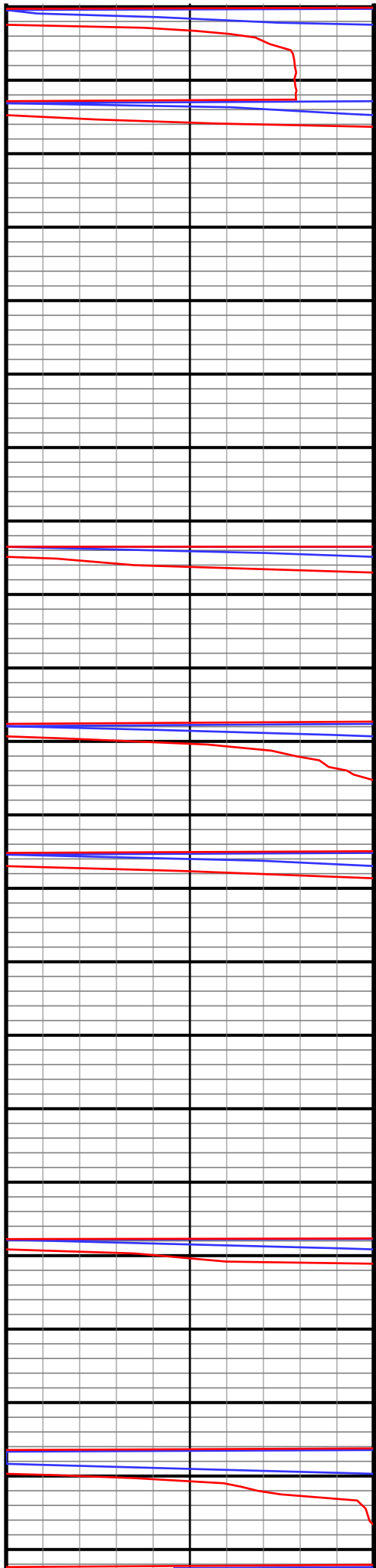


#20 MD(1925.00) Inc(30.8) Azm(265.8) TVD(1840.43)

#21 MD(2020.00) Inc(30.8) Azm(264.4) TVD(1922.03)



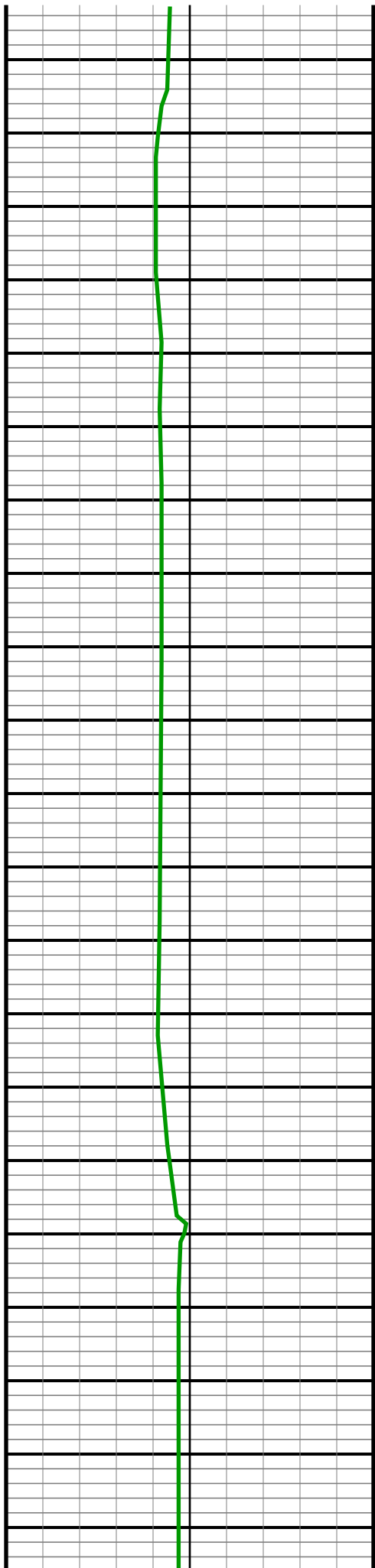
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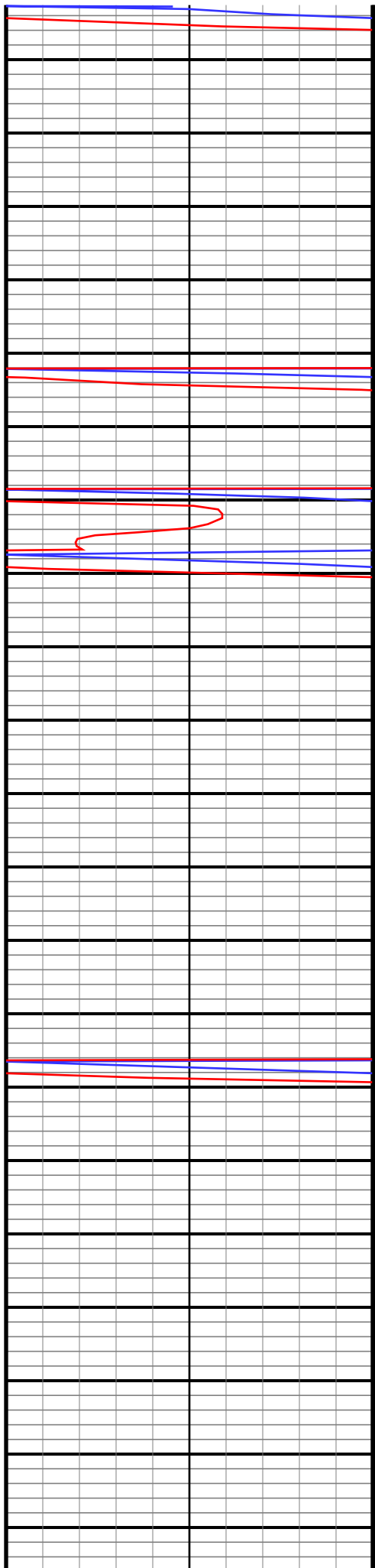
#22 MD(2115.00) Inc(31.9) Azm(265.7) TVD(2003.16)

#23 MD(2210.00) Inc(34.5) Azm(267.5) TVD(2082.65)

#24 MD(2305.00) Inc(36.7) Azm(267.8) TVD(2159.89)

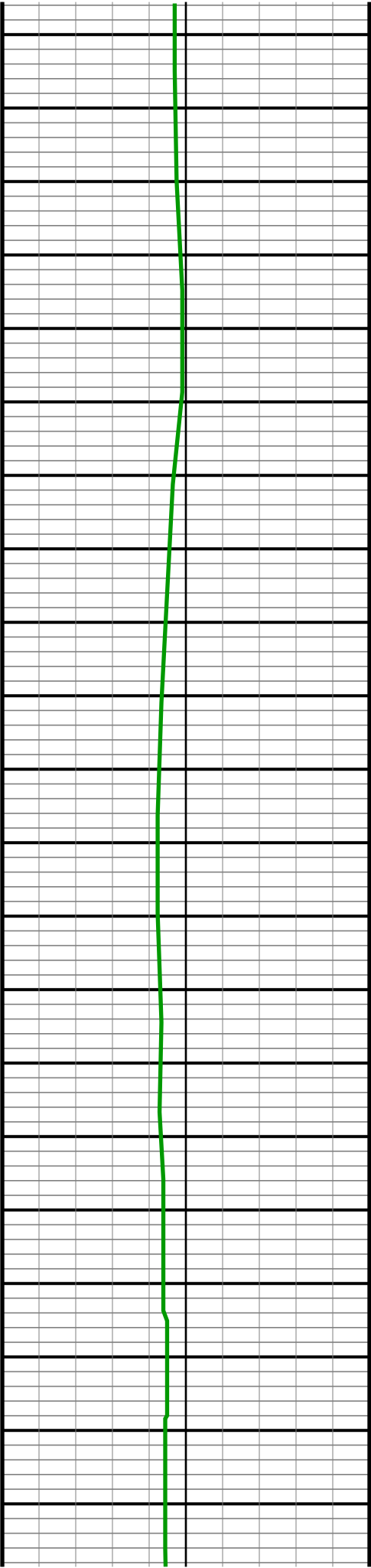


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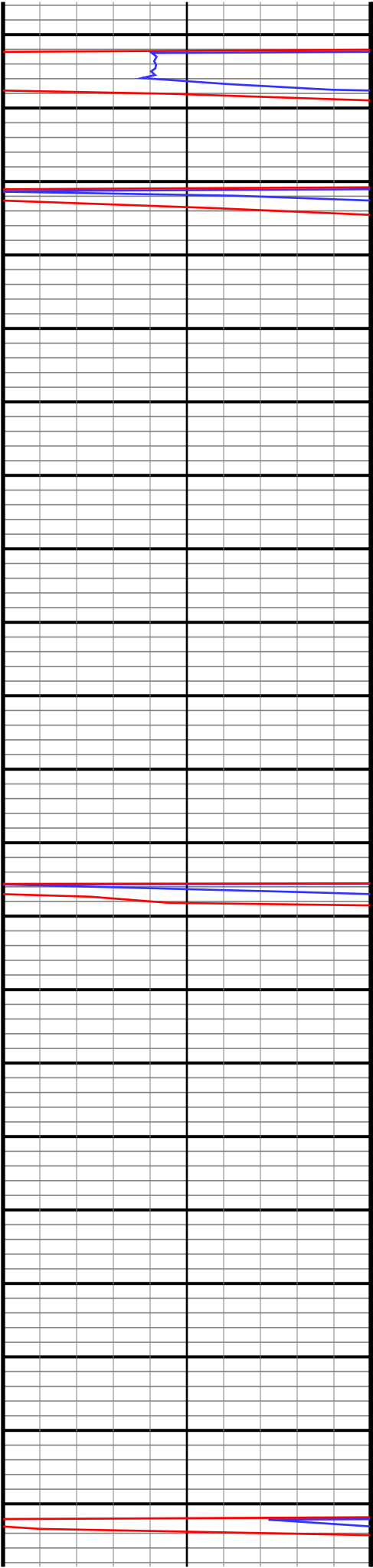


#25 MD(2400.00) Inc(39.2) Azm(265.5) TVD(2234.80)

#26 MD(2495.00) Inc(38.7) Azm(263.7) TVD(2308.69)

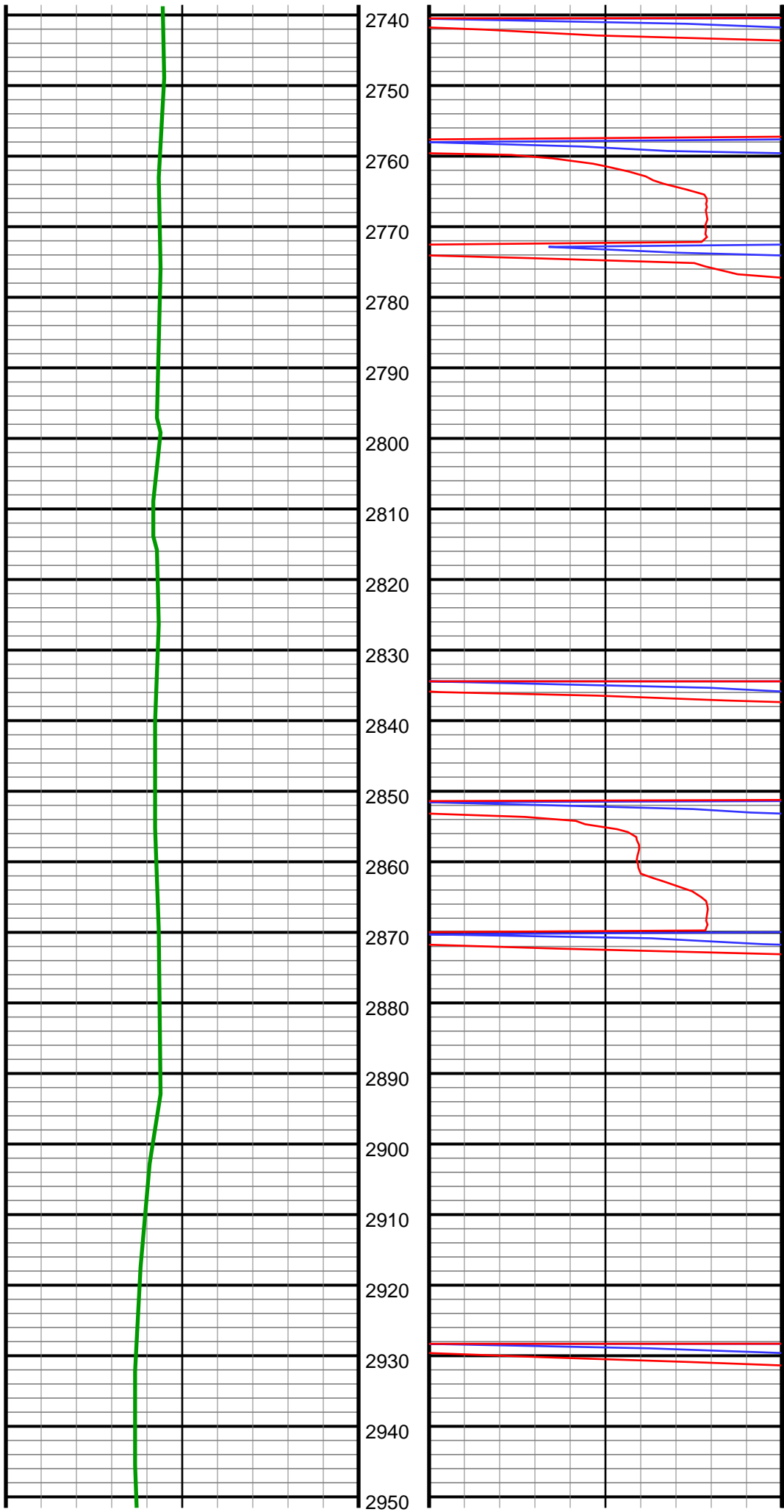


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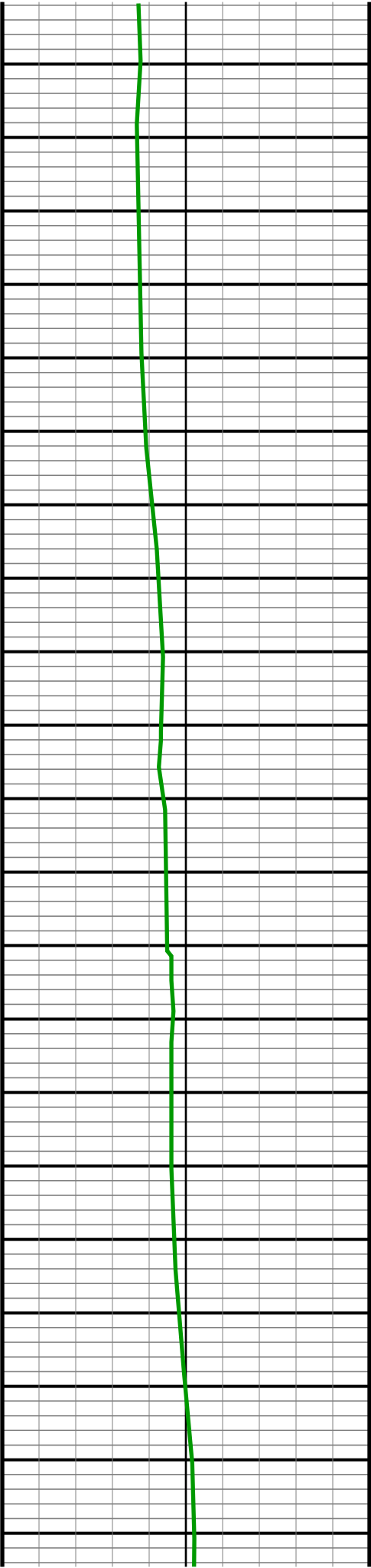
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#28 MD(2685.00) Inc(37.8) Azm(262.0) TVD(2457.85)

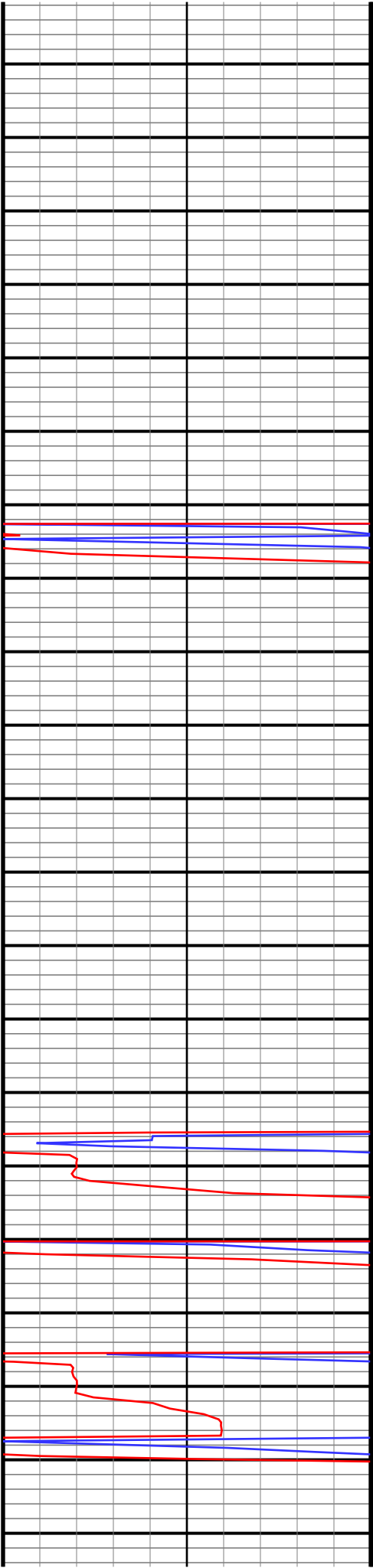


#29 MD(2779.00) Inc(37.3) Azm(263.4) TVD(2532.37)

#30 MD(2873.00) Inc(37.1) Azm(268.8) TVD(2607.27)



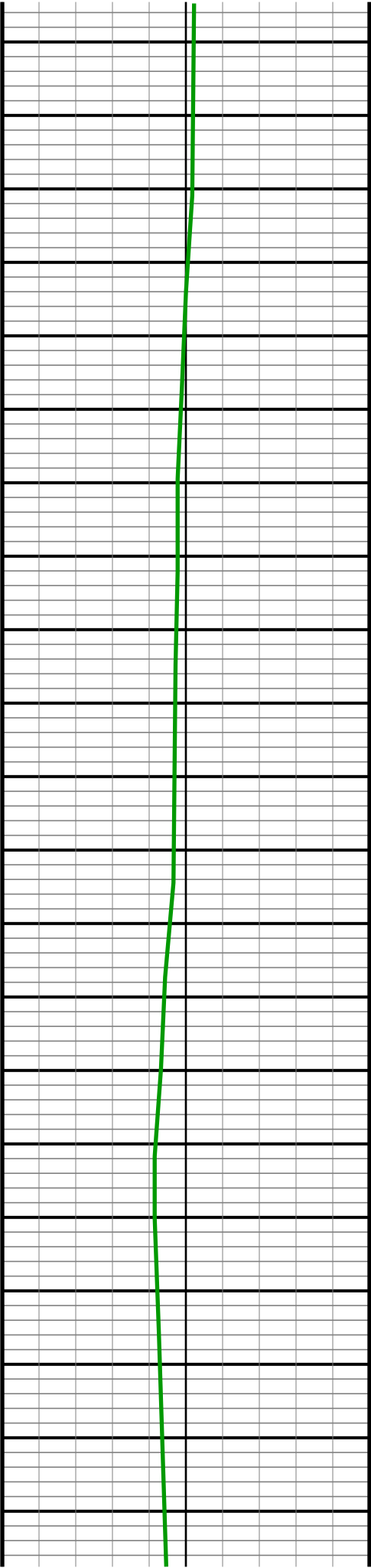
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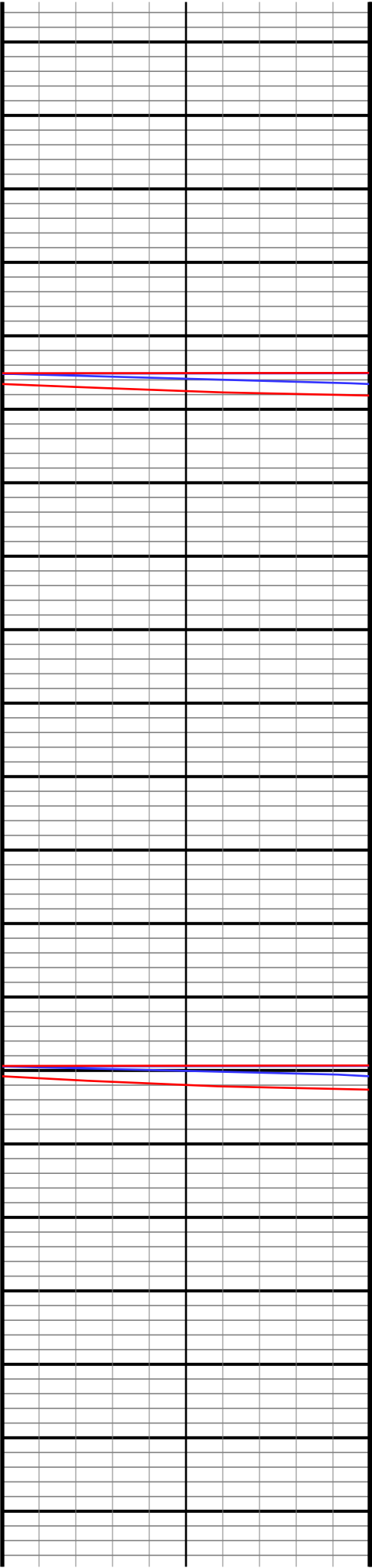
#31 MD(2967.00) Inc(38.2) Azm(270.7) TVD(2681.70)

#32 MD(3061.00) Inc(39.2) Azm(270.4) TVD(2755.05)

#33 MD(3156.00) Inc(38.3) Azm(267.0) TVD(2829.15)

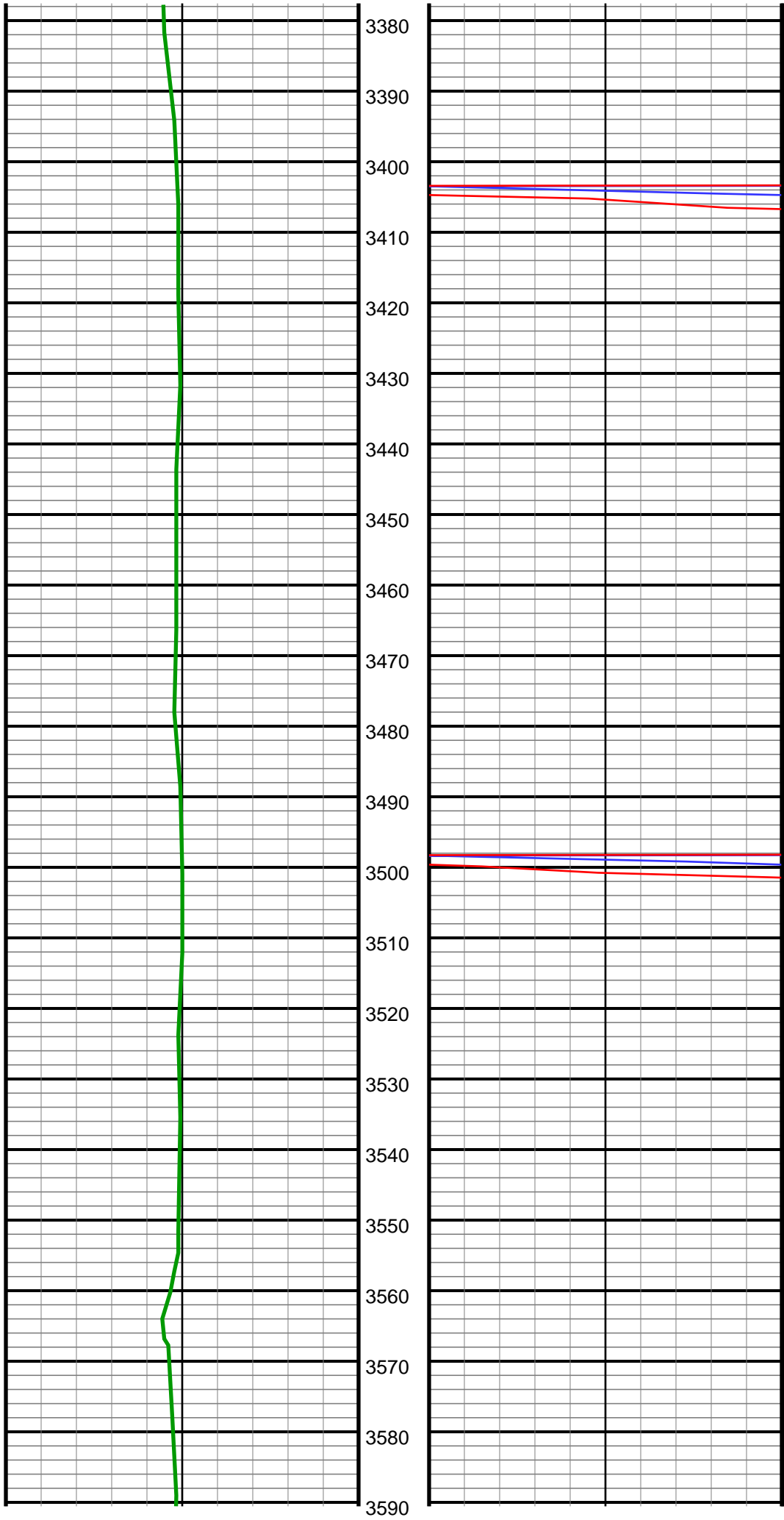


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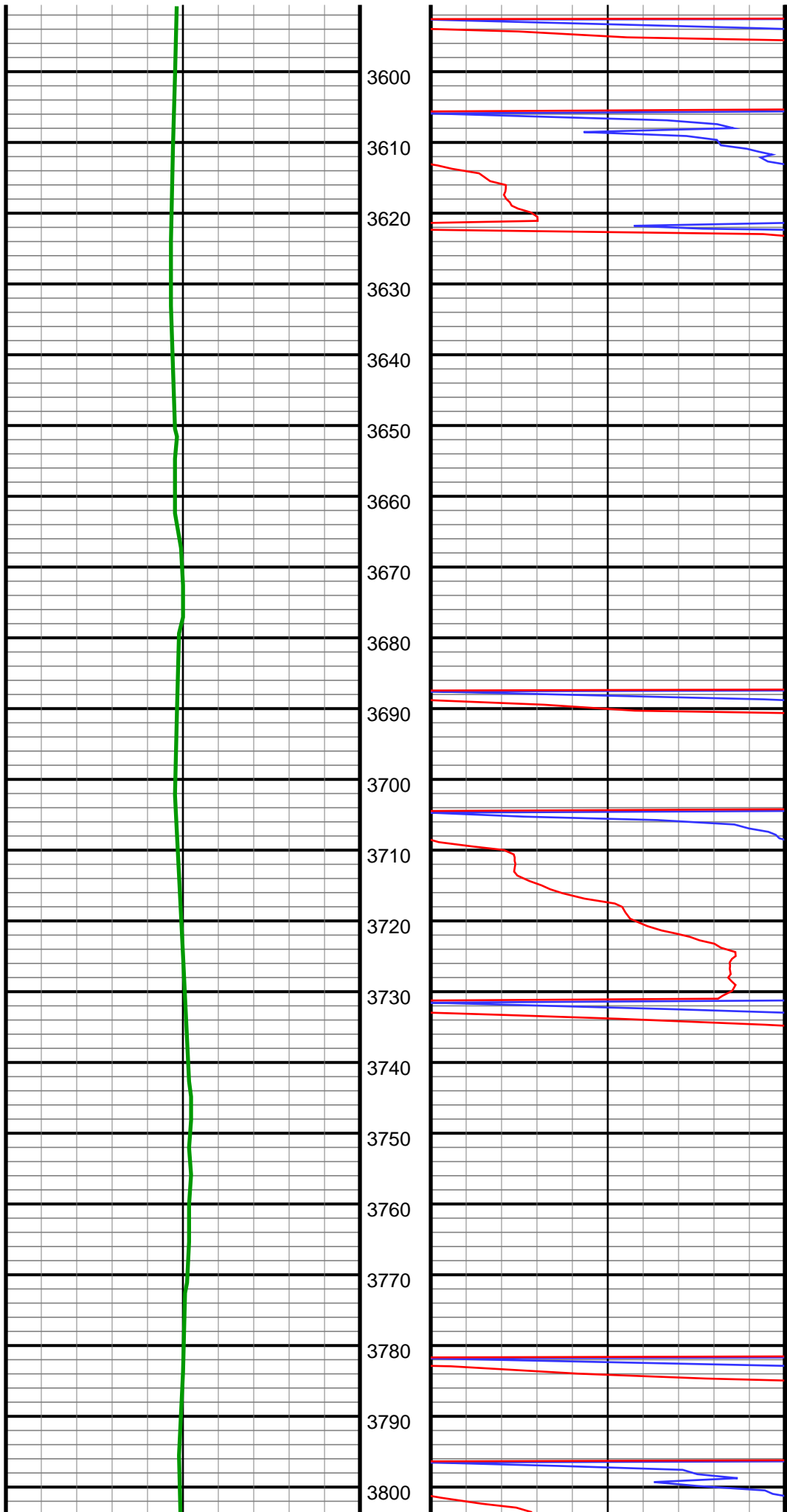
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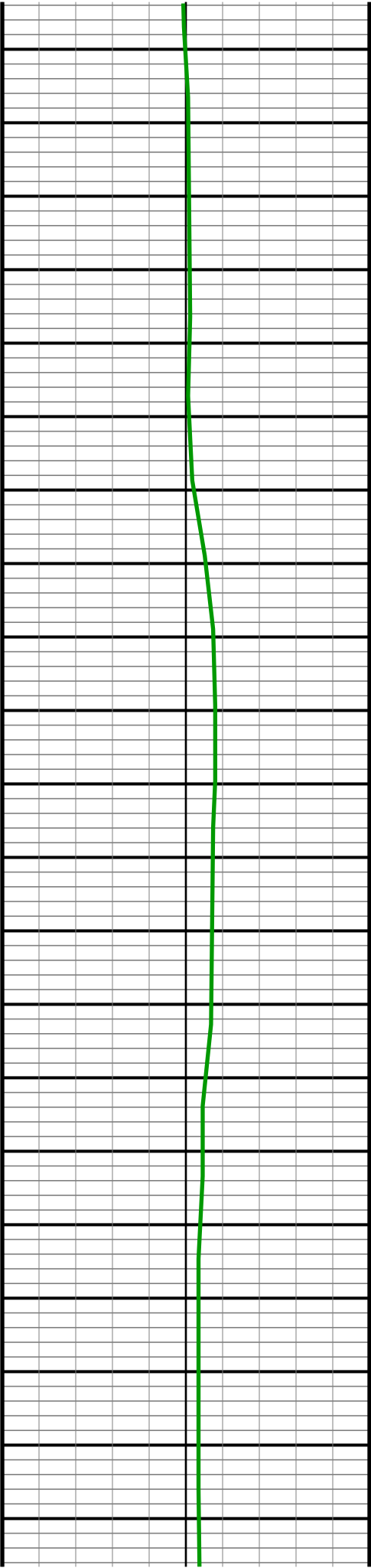
#35 MD(3344.00) Inc(37.7) Azm(264.1) TVD(2977.70)



#36 MD(3439.00) Inc(36.4) Azm(263.3) TVD(3053.52)

#37 MD(3532.00) Inc(34.2) Azm(261.2) TVD(3129.42)





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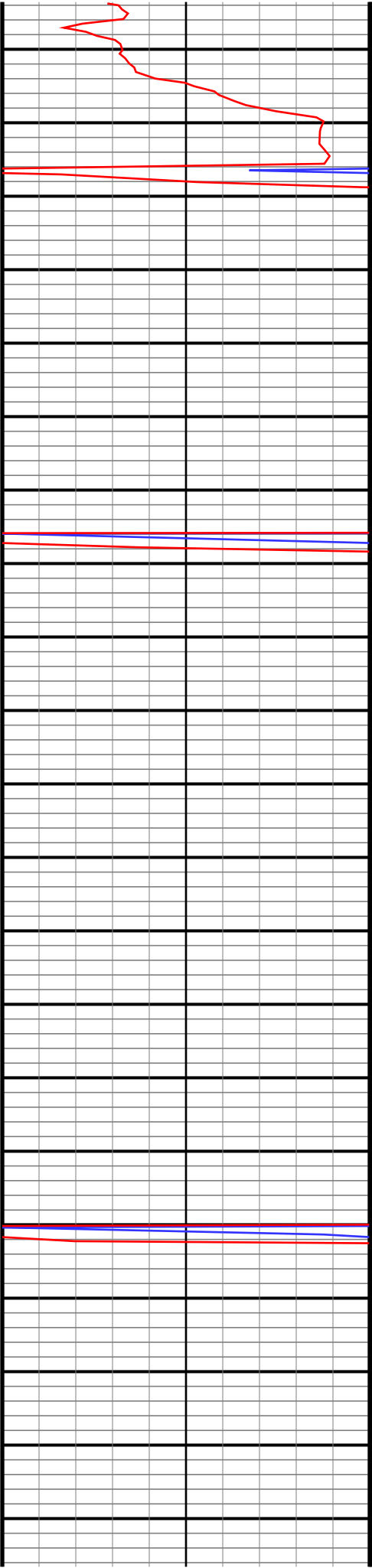
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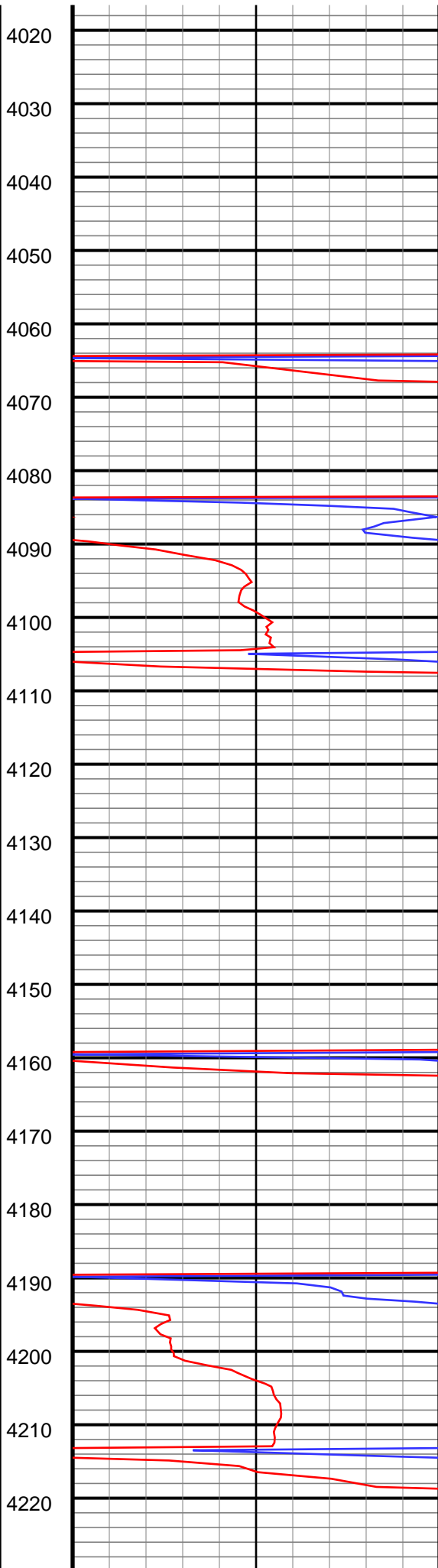
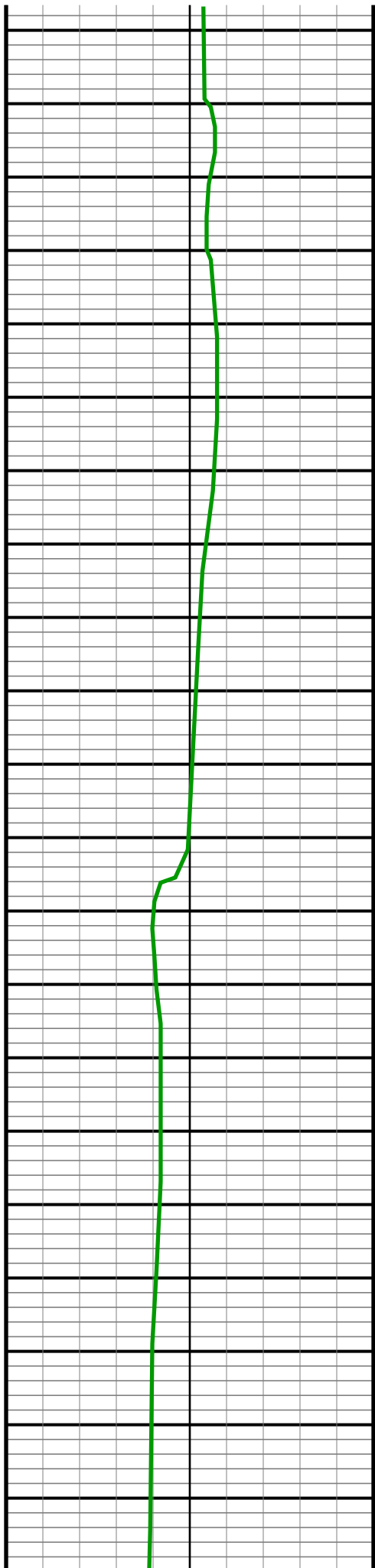
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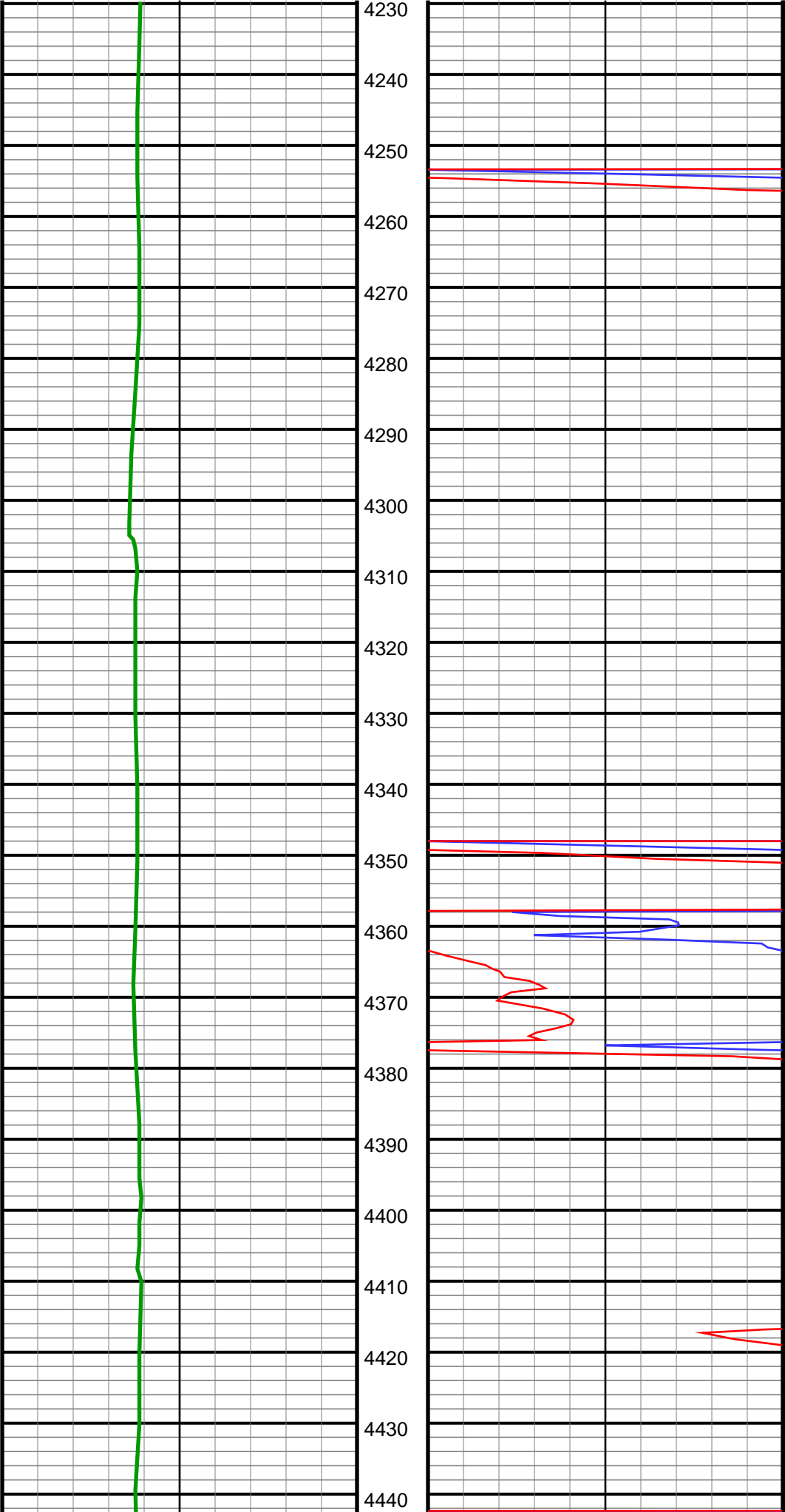
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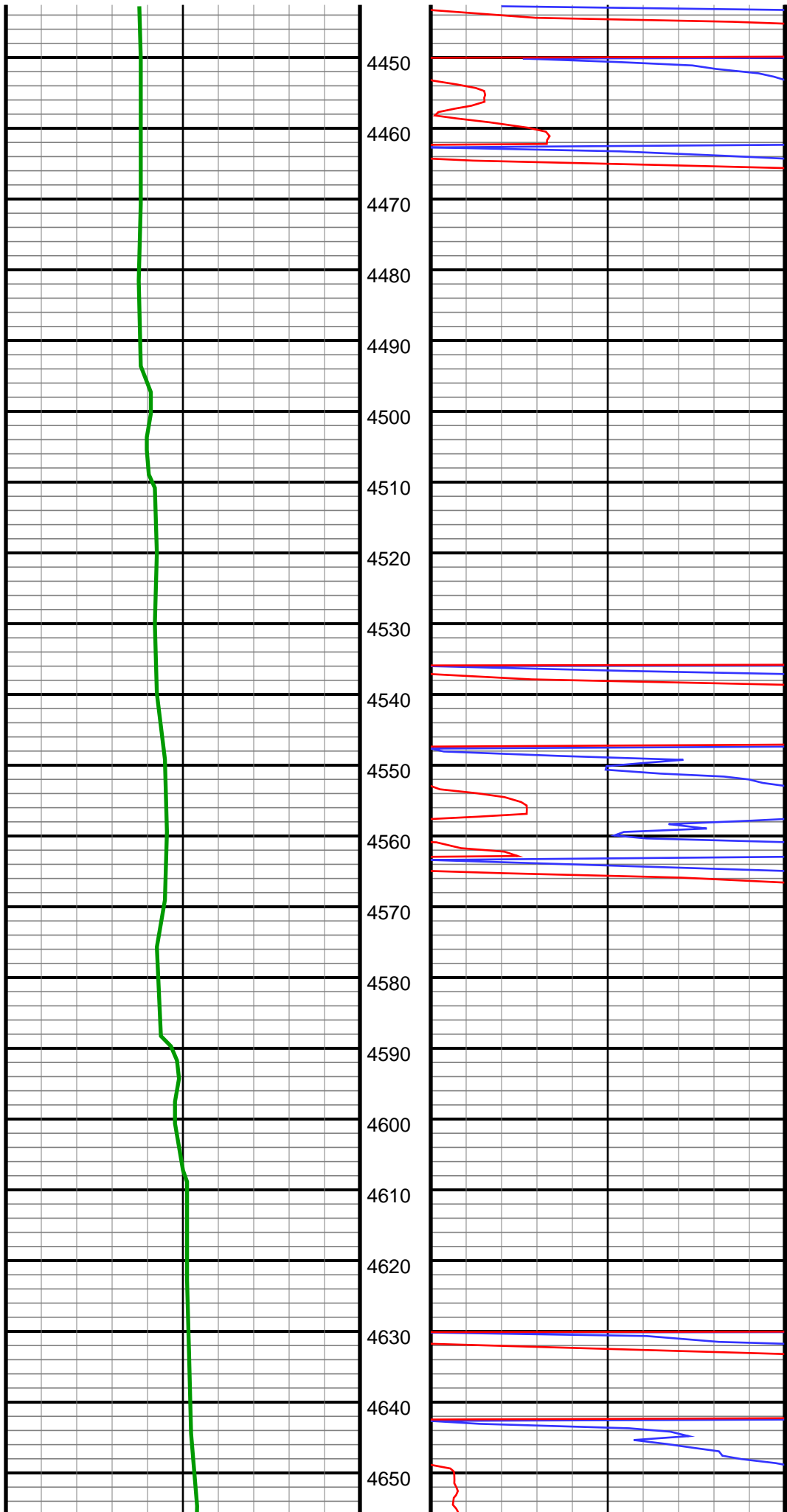
#42 MD(4005.00) Inc(36.2) Azm(267.9) TVD(3508.90)



#43 MD(4099.00) Inc(35.9) Azm(264.0) TVD(3584.91)

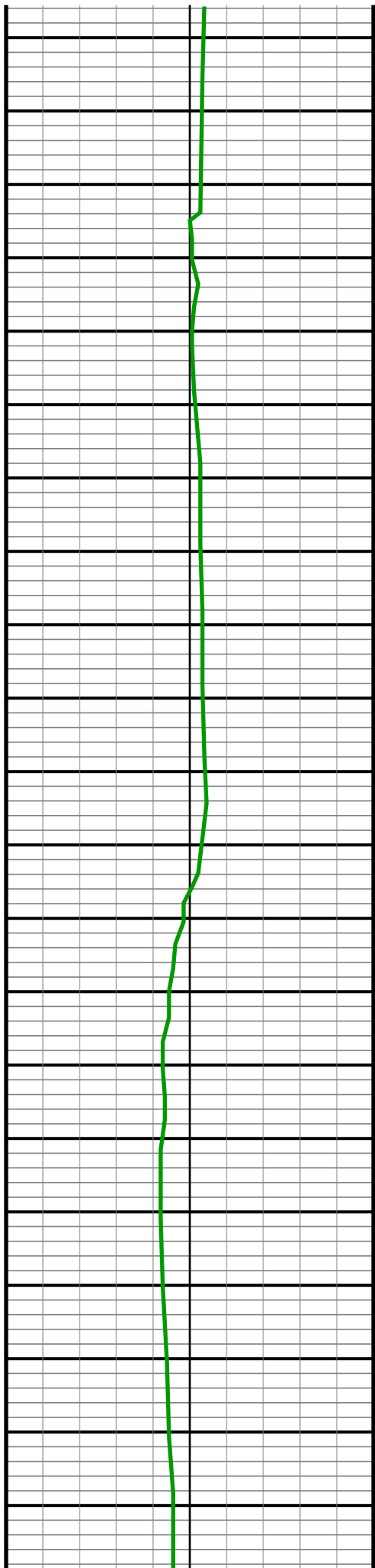
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#47 MD(4477.00) Inc(40.3) Azm(262.5) TVD(3870.34)

#48 MD(4571.00) Inc(39.0) Azm(263.3) TVD(3942.71)



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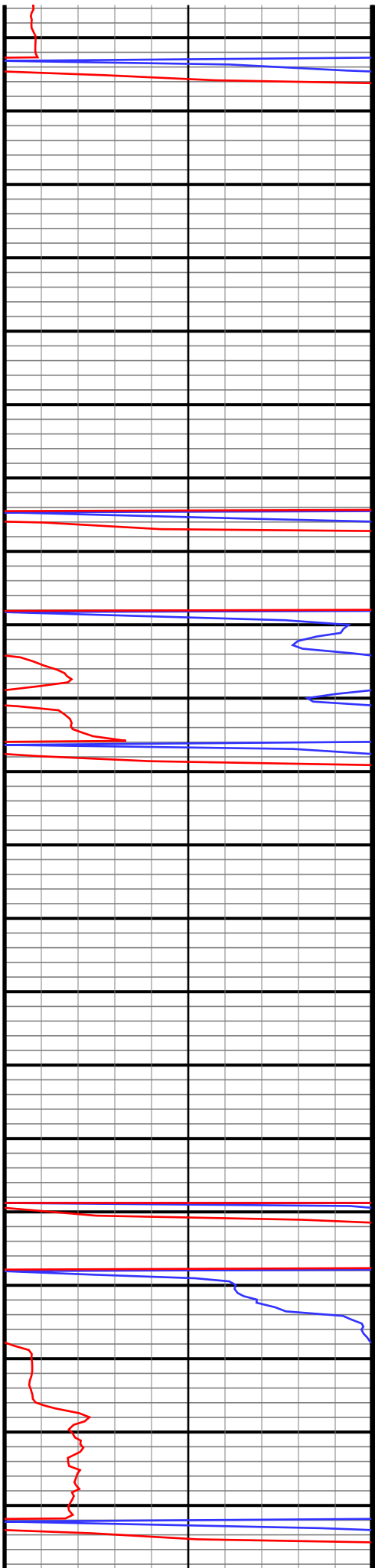
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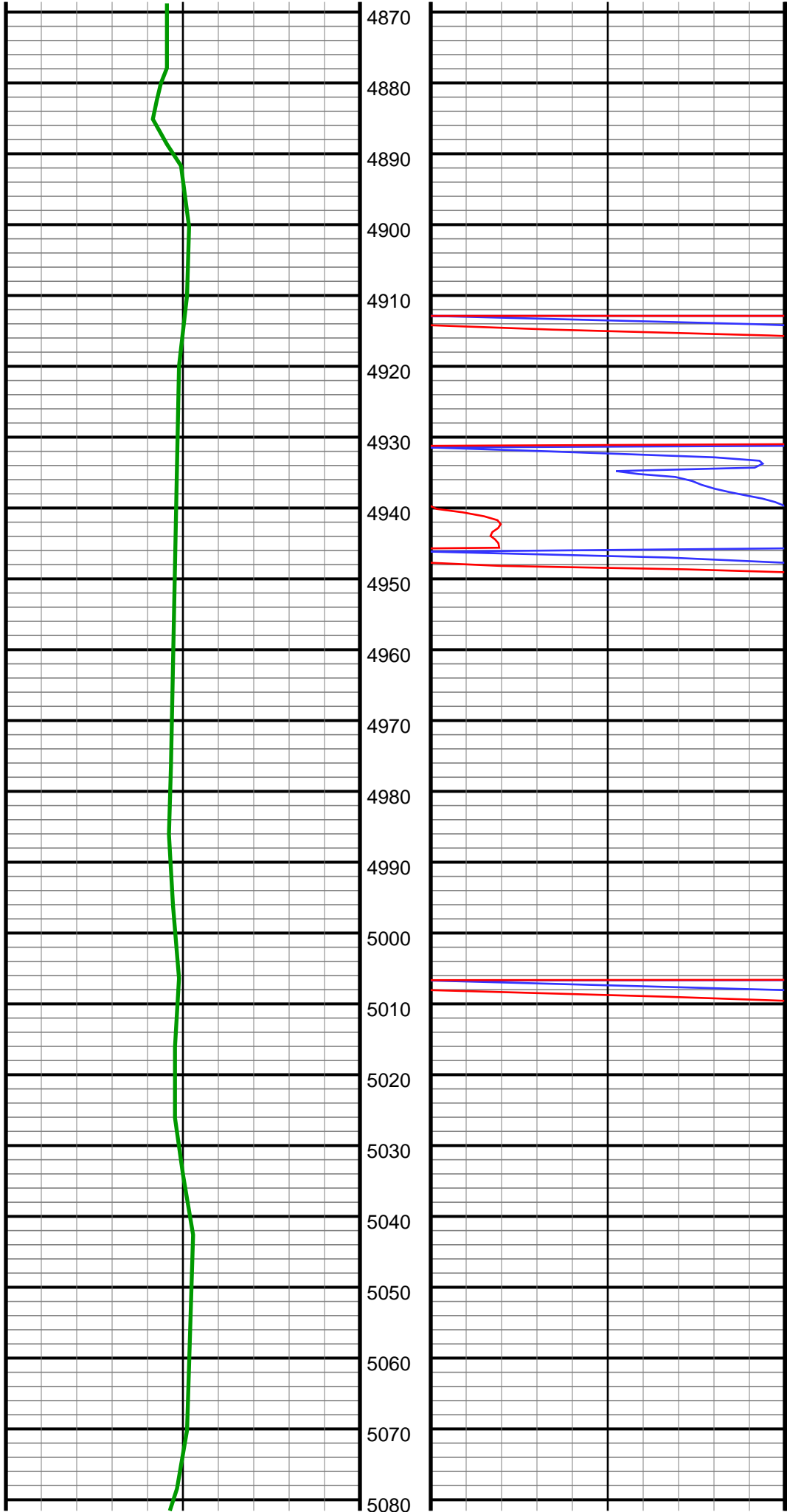
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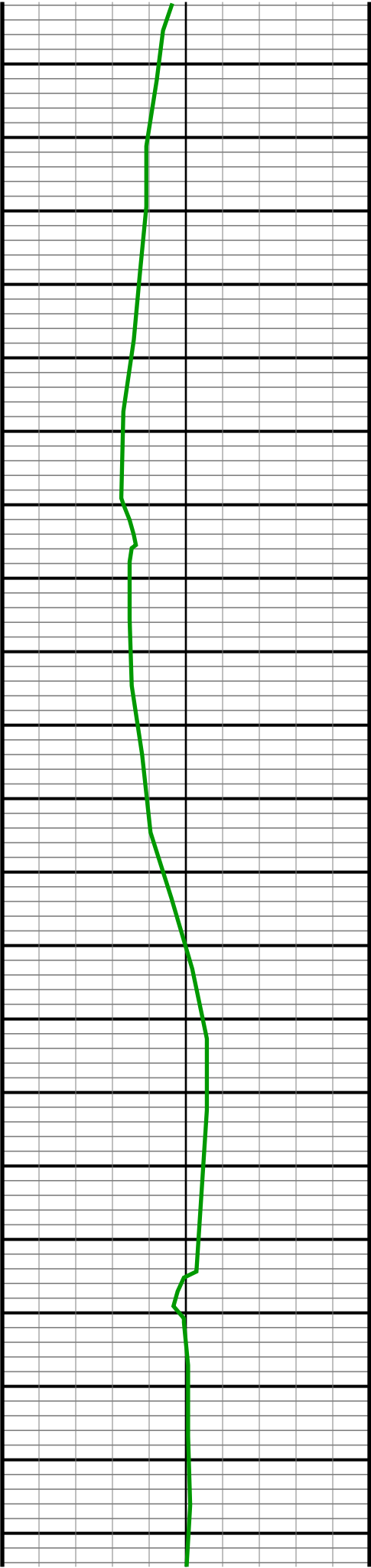
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#51 MD(4853.00) Inc(36.5) Azm(266.0) TVD(4173.69)

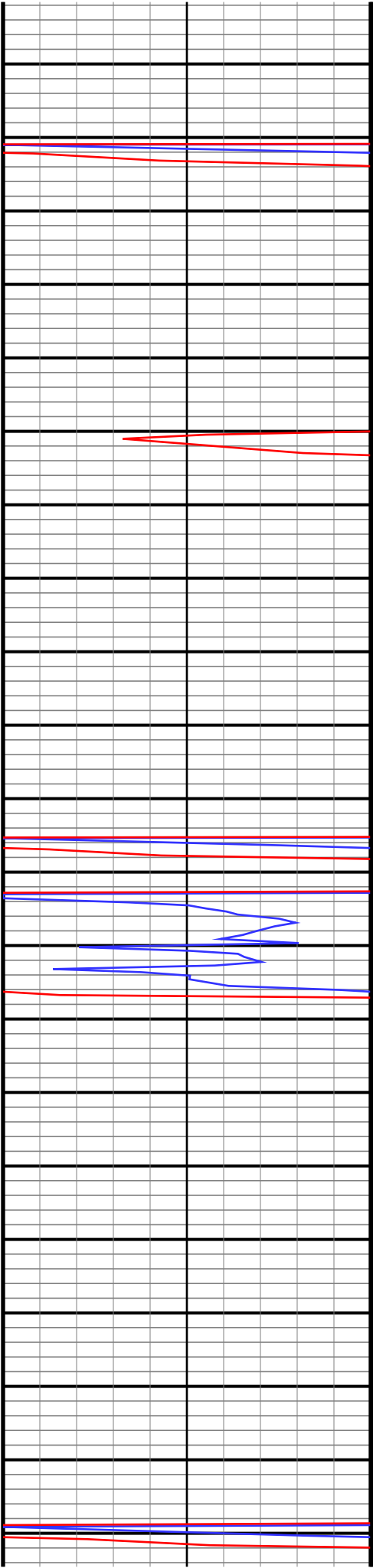


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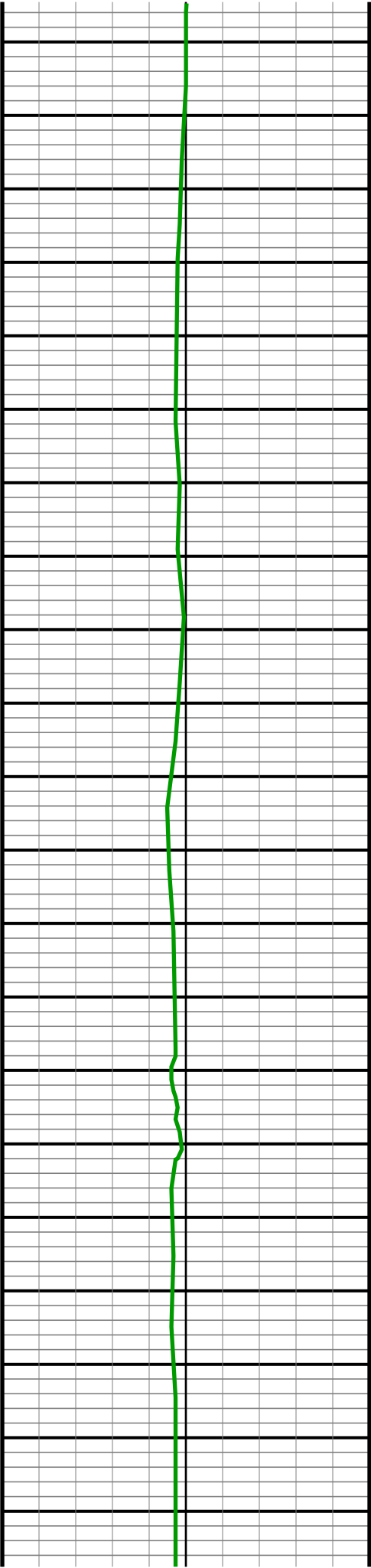


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#54 MD(5136.00) Inc(36.6) Azm(268.0) TVD(4399.66)

#55 MD(5230.00) Inc(35.9) Azm(266.4) TVD(4475.47)



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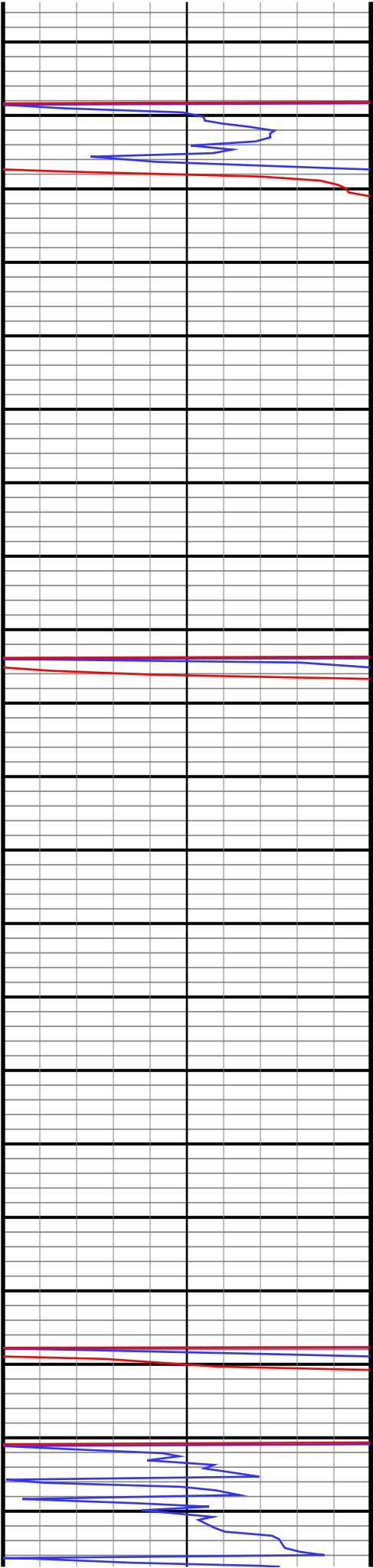
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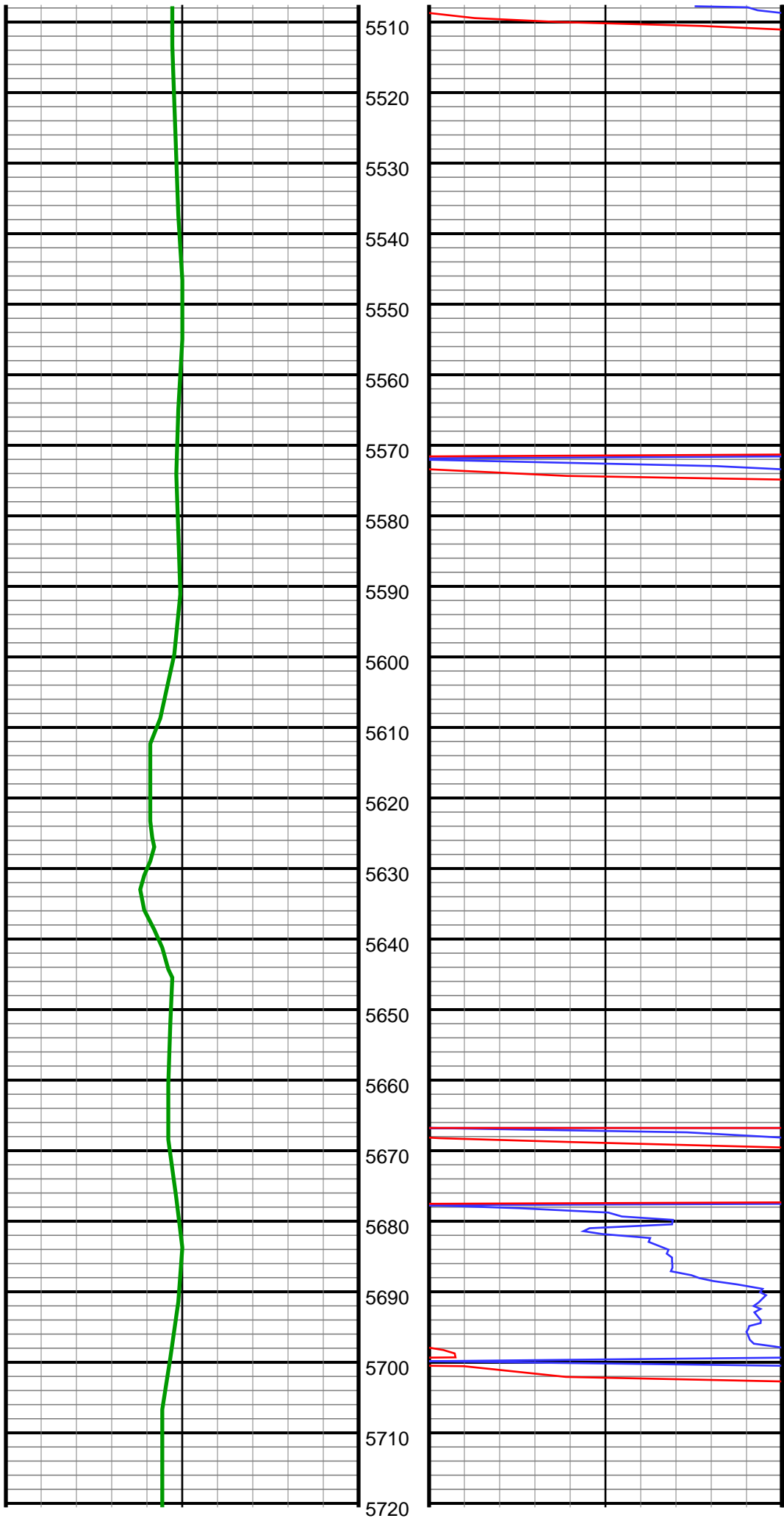
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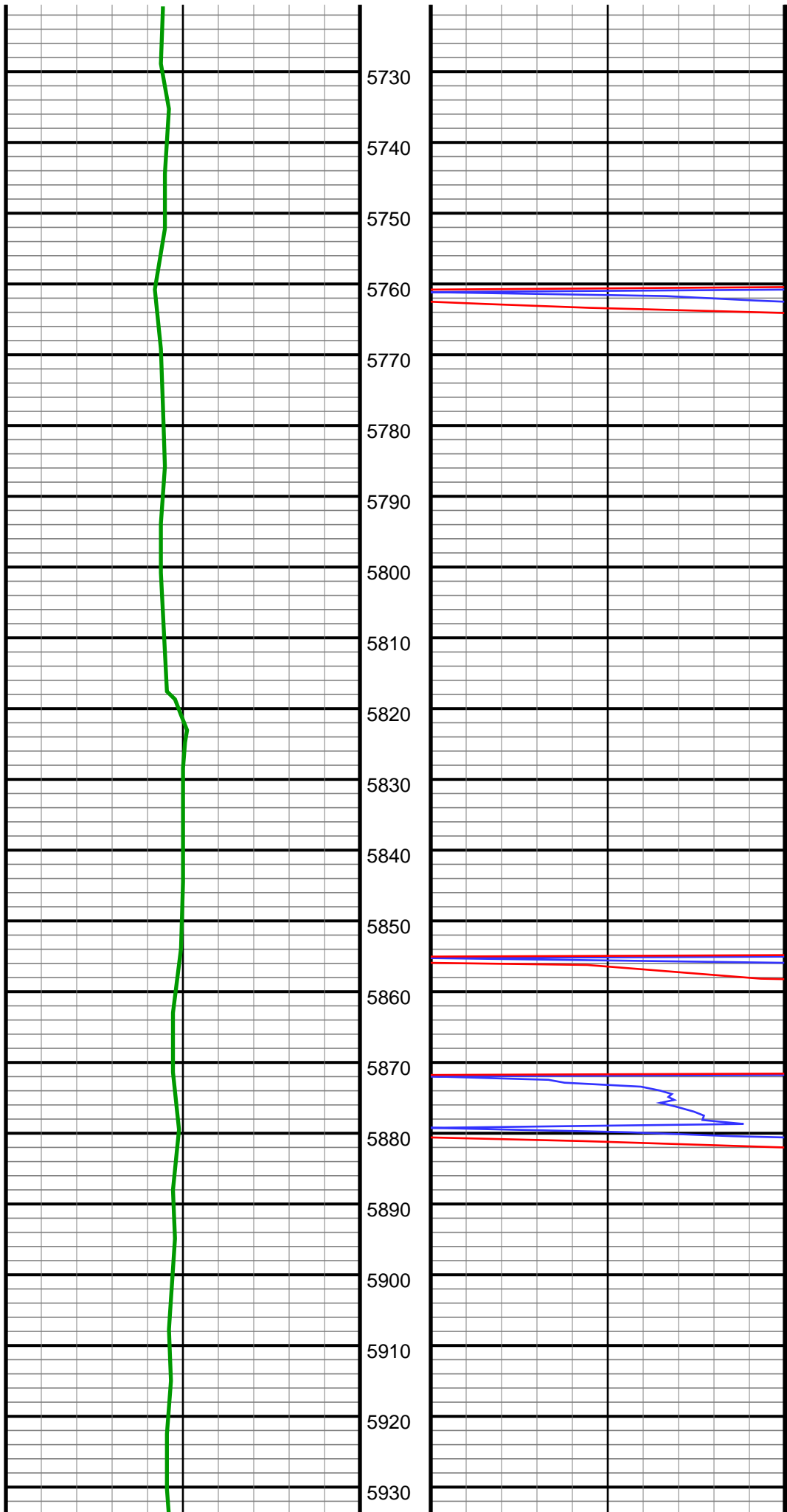
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#58 MD(5514.00) Inc(28.9) Azm(262.0) TVD(4716.58)

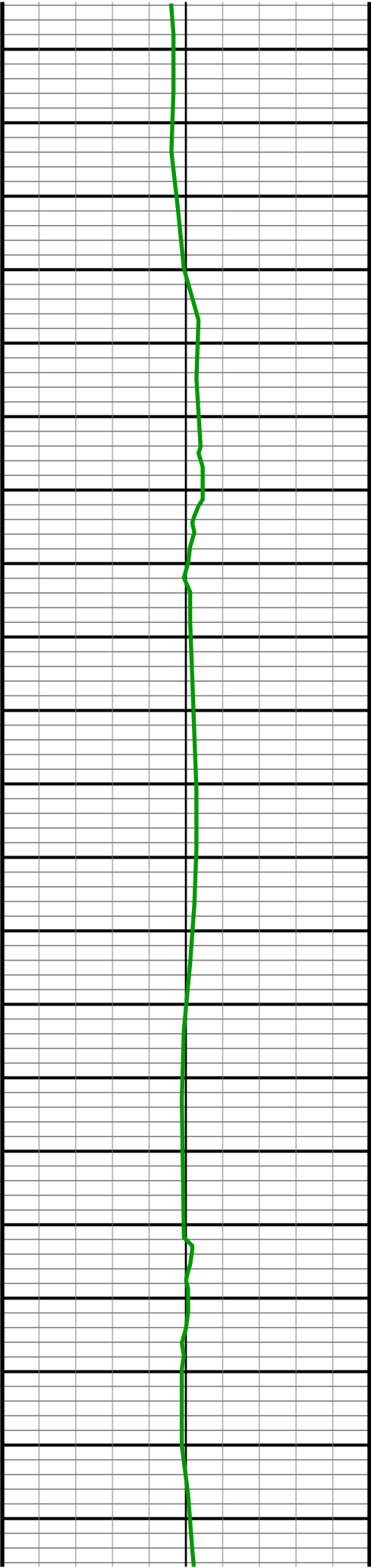
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#61 MD(5797.00) Inc(25.5) Azm(265.0) TVD(4969.09)

#62 MD(5891.00) Inc(20.8) Azm(264.9) TVD(5055.50)



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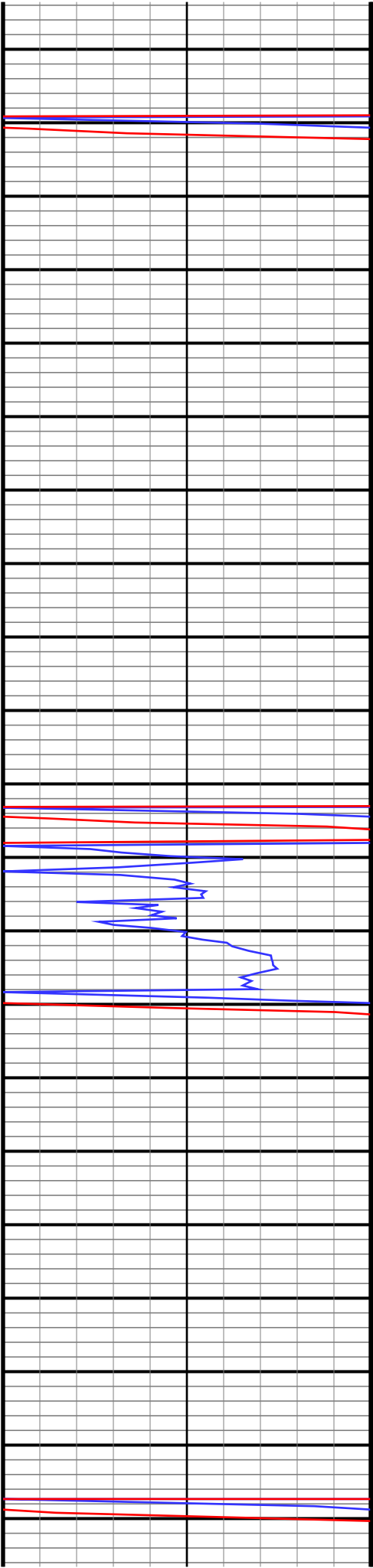
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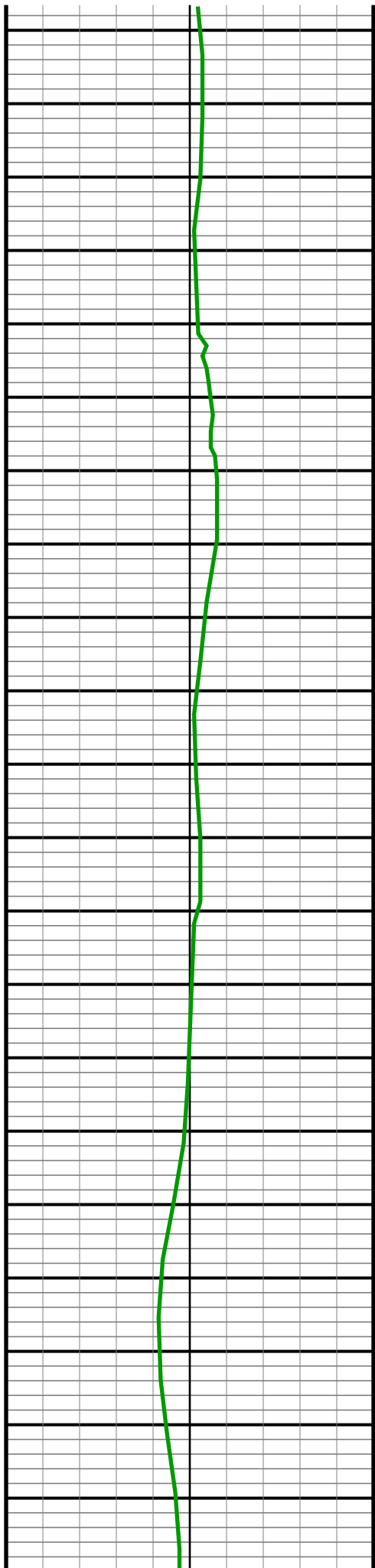
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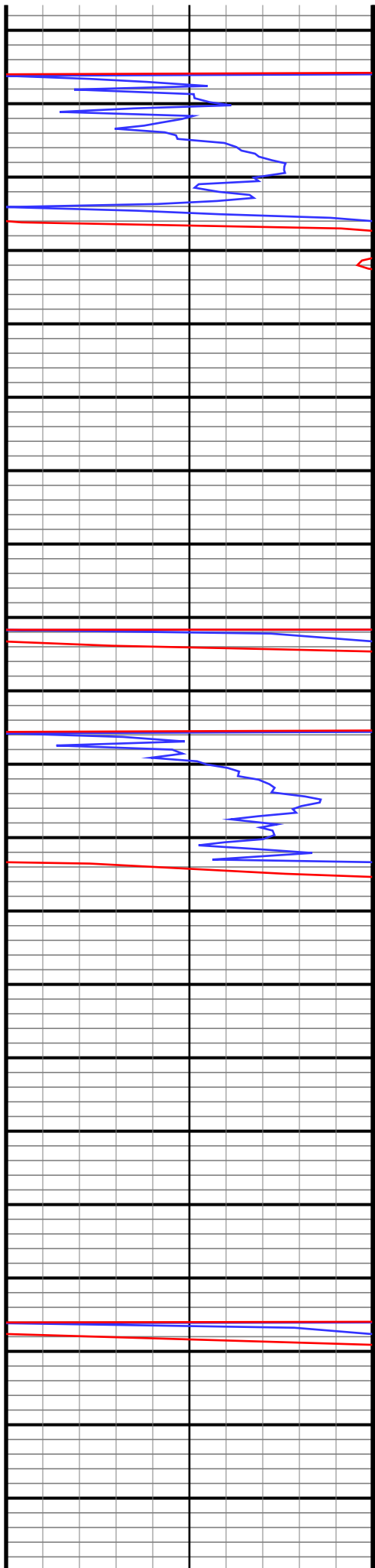


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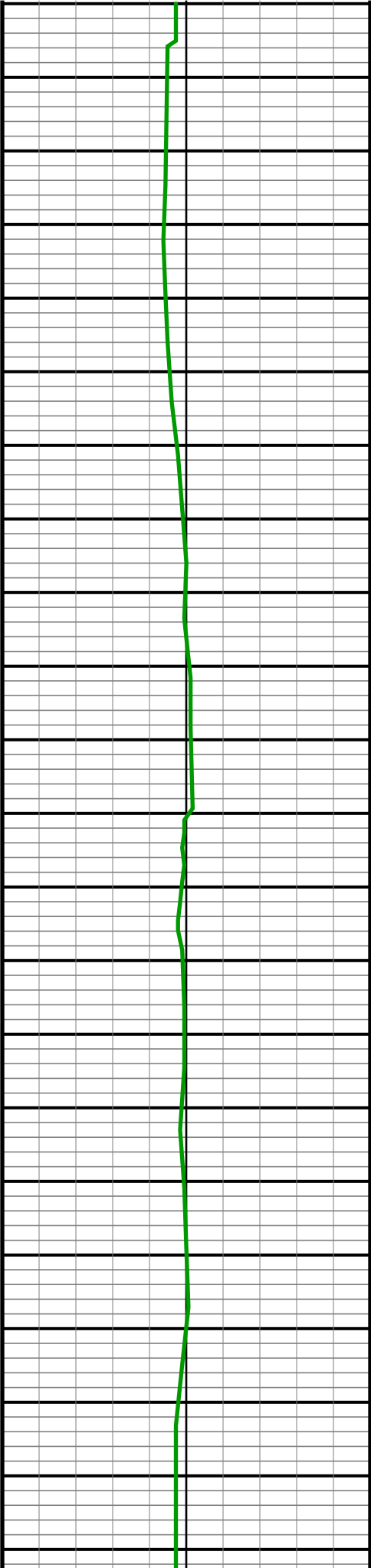


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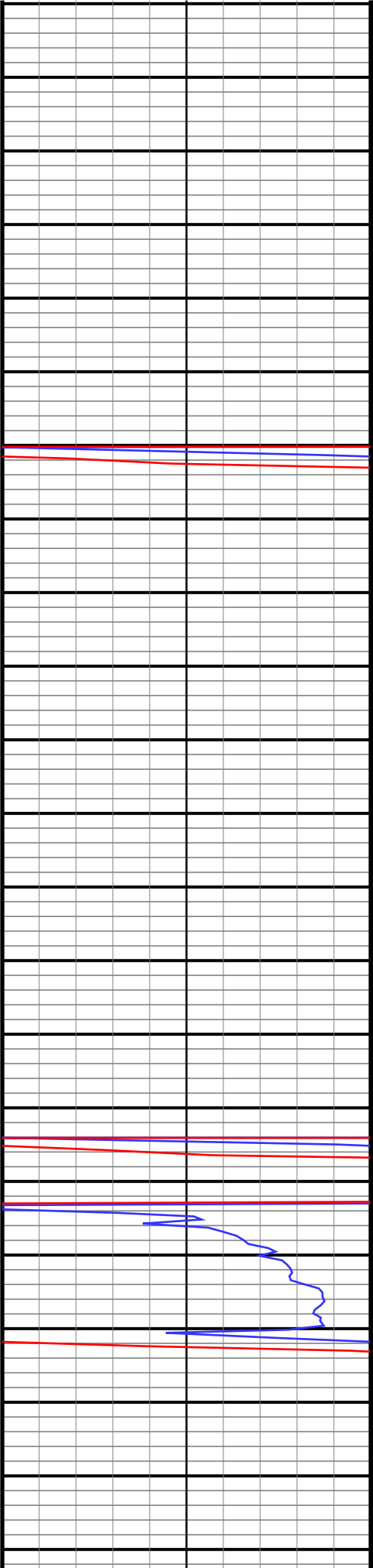


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#66 MD(6269.00) Inc(13.7) Azm(269.0) TVD(5419.17)



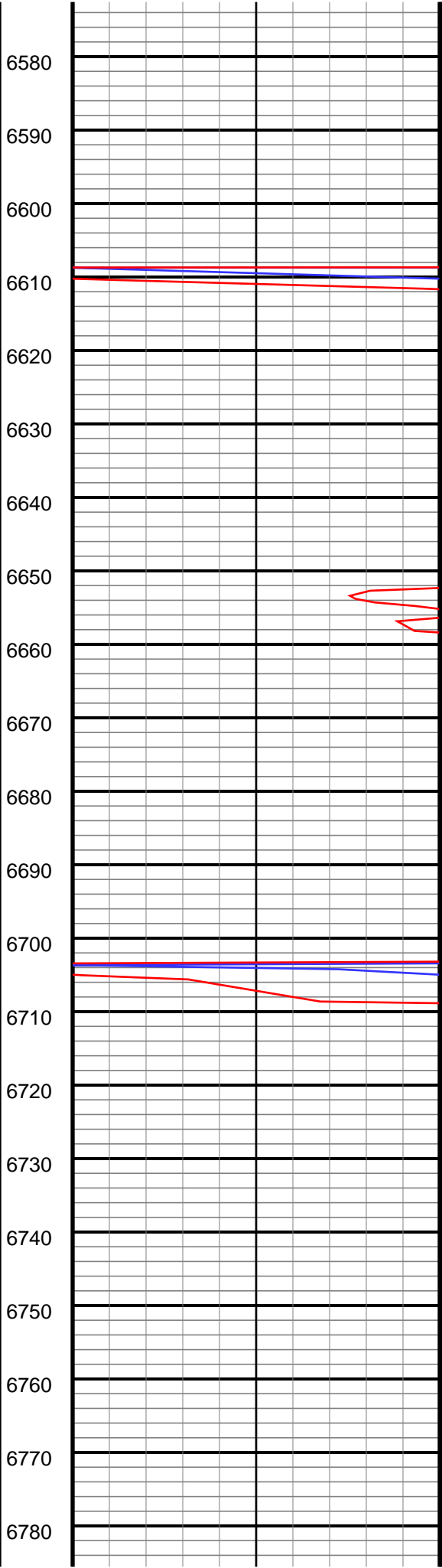
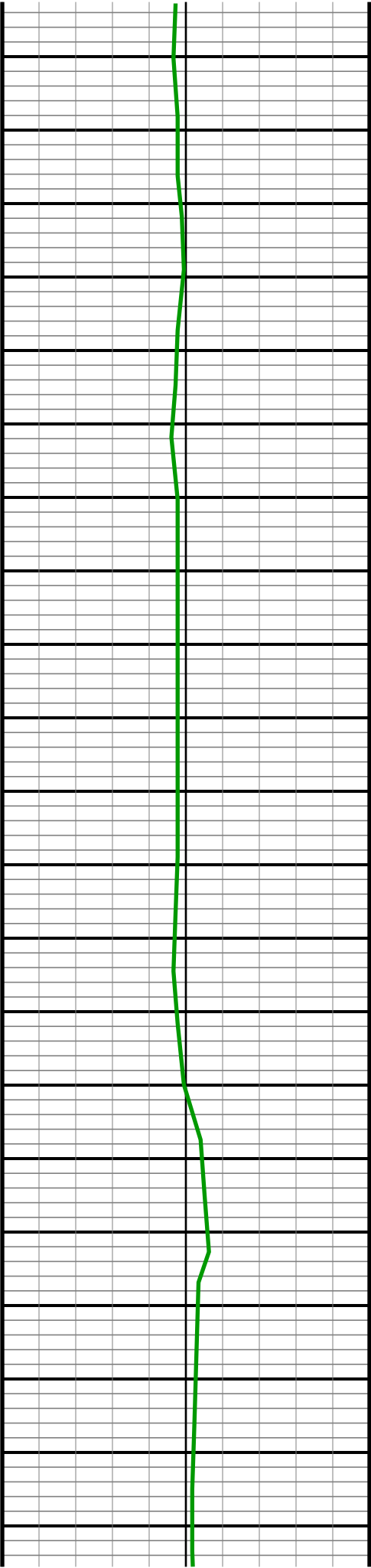
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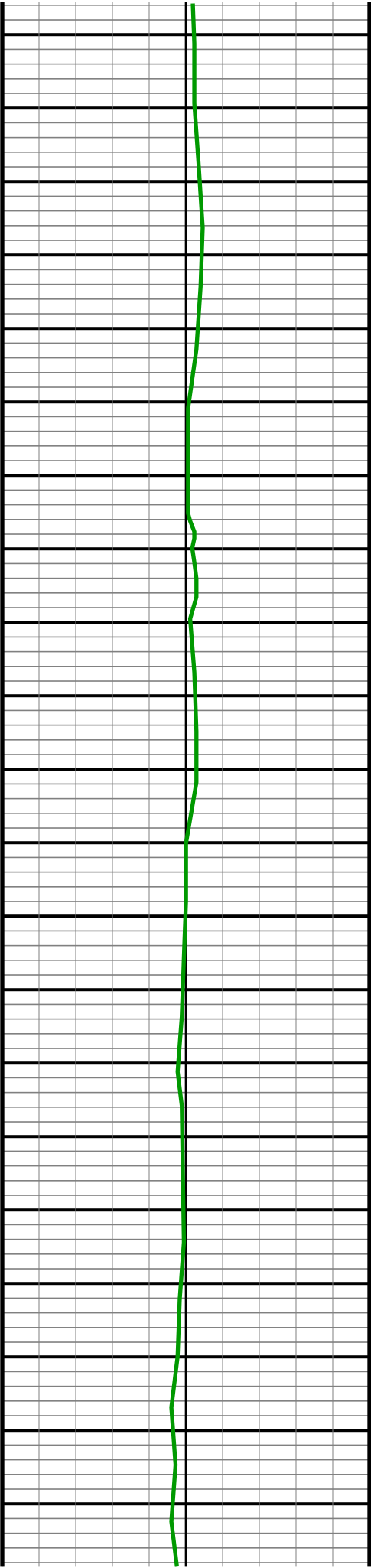
#68 MD(6459.00) Inc(8.8) Azm(265.2) TVD(5605.35)

#69 MD(6553.00) Inc(8.8) Azm(265.9) TVD(5698.24)

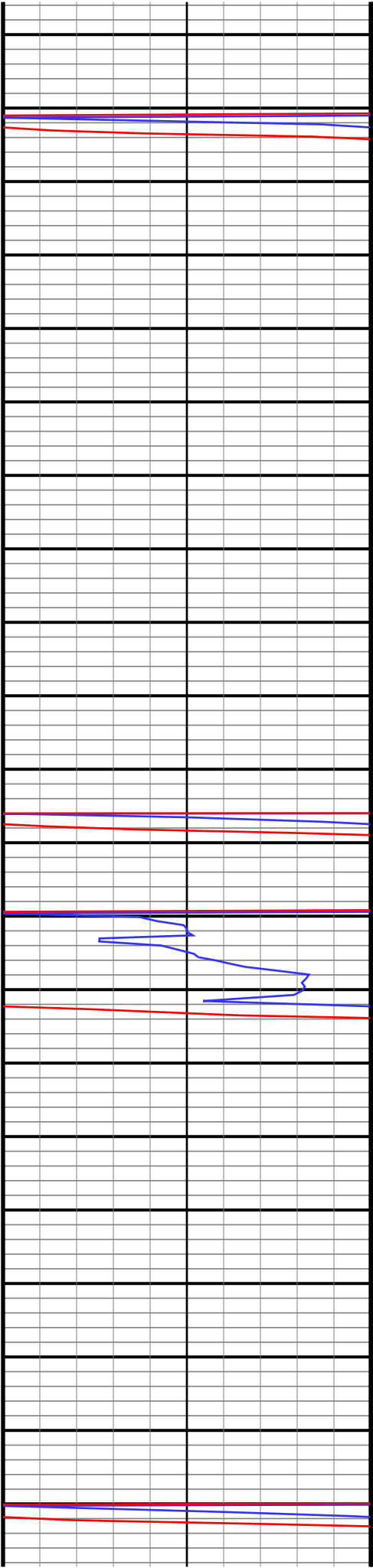


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#71 MD(6743.00) Inc(5.5) Azm(263.2) TVD(5886.69)

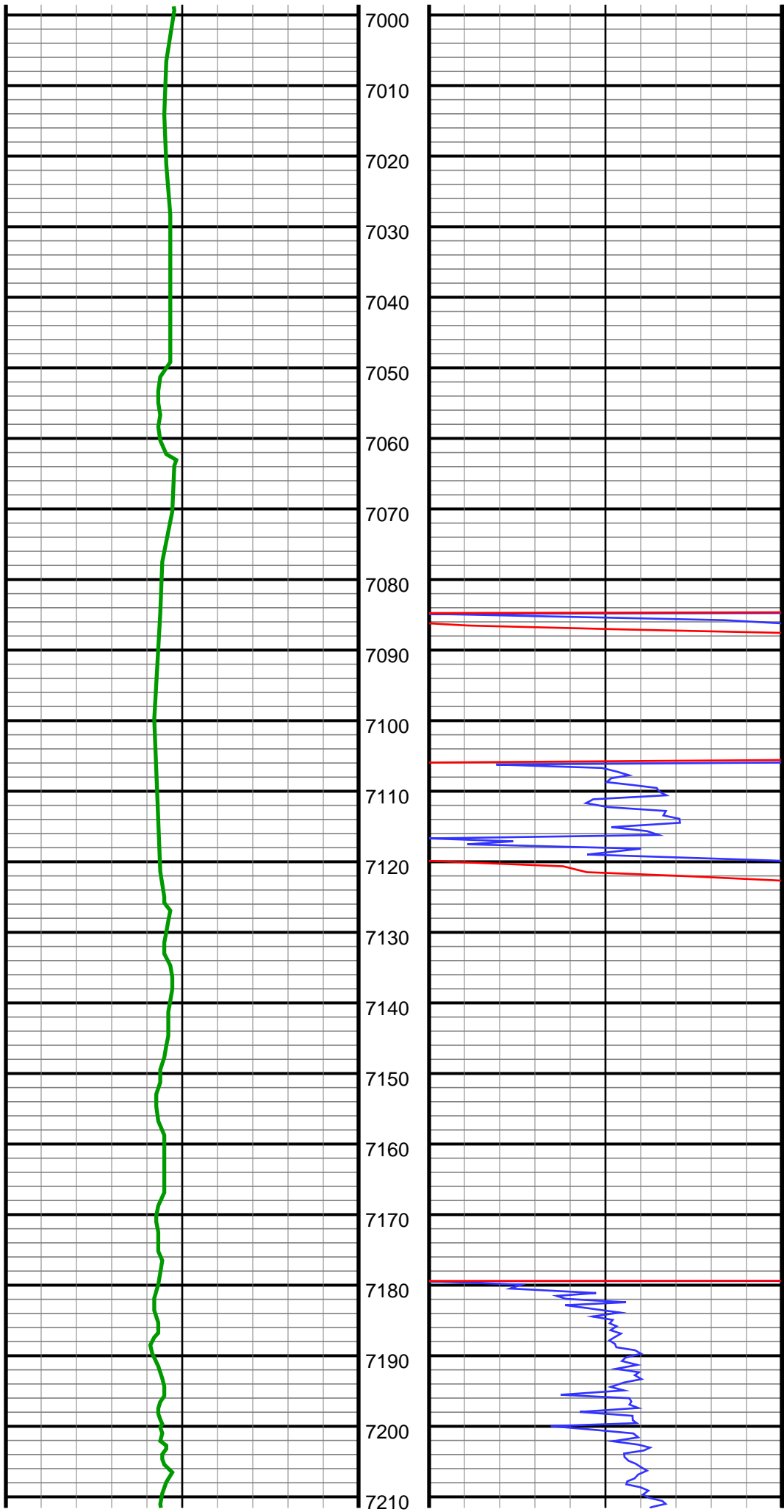


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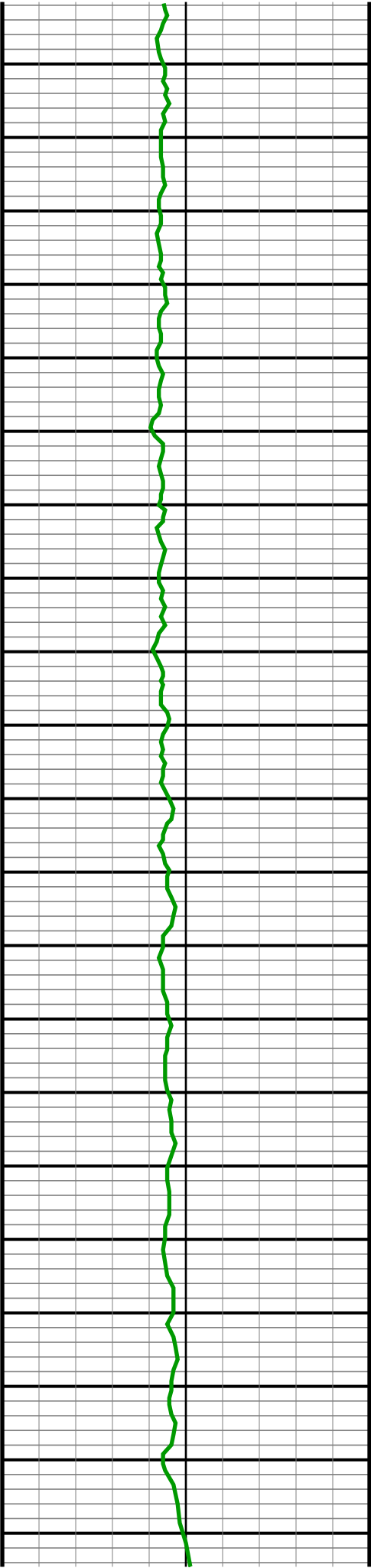
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#73 MD(6933.00) Inc(3.0) Azm(280.5) TVD(6076.12)

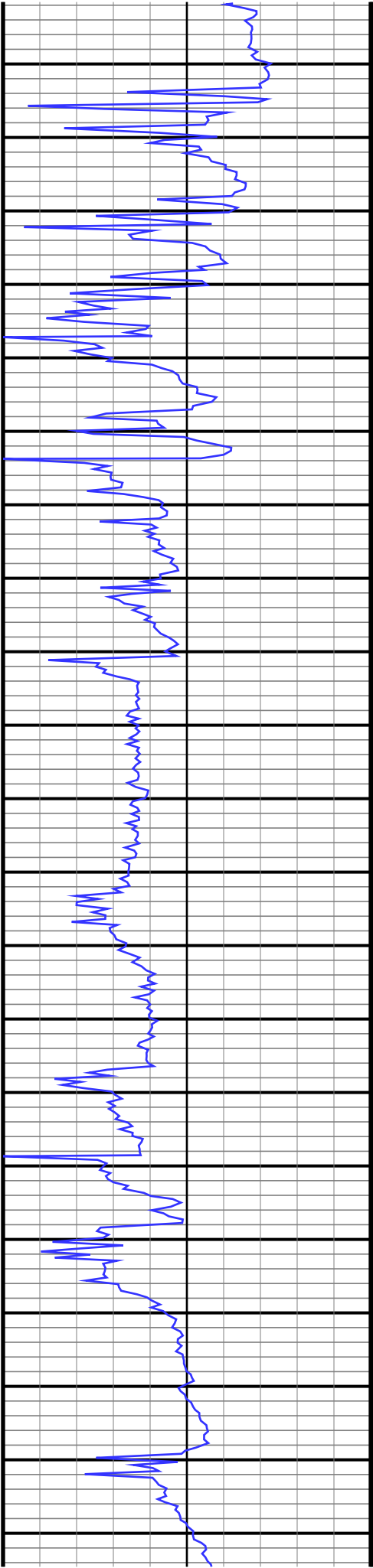


#74 MD(7027.00) Inc(2.0) Azm(284.2) TVD(6170.03)

#75 MD(7122.00) Inc(0.9) Azm(279.1) TVD(6265.00)



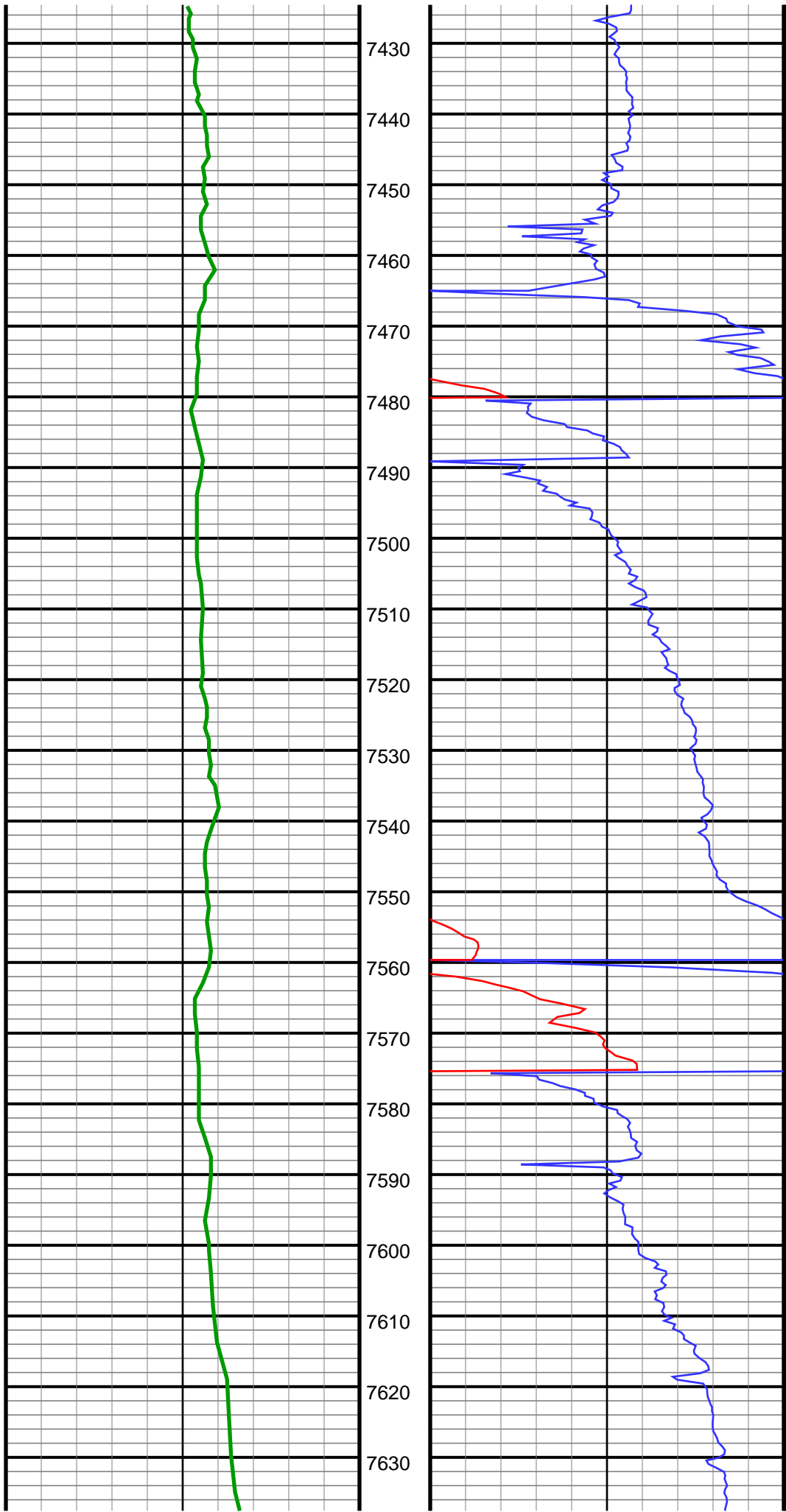
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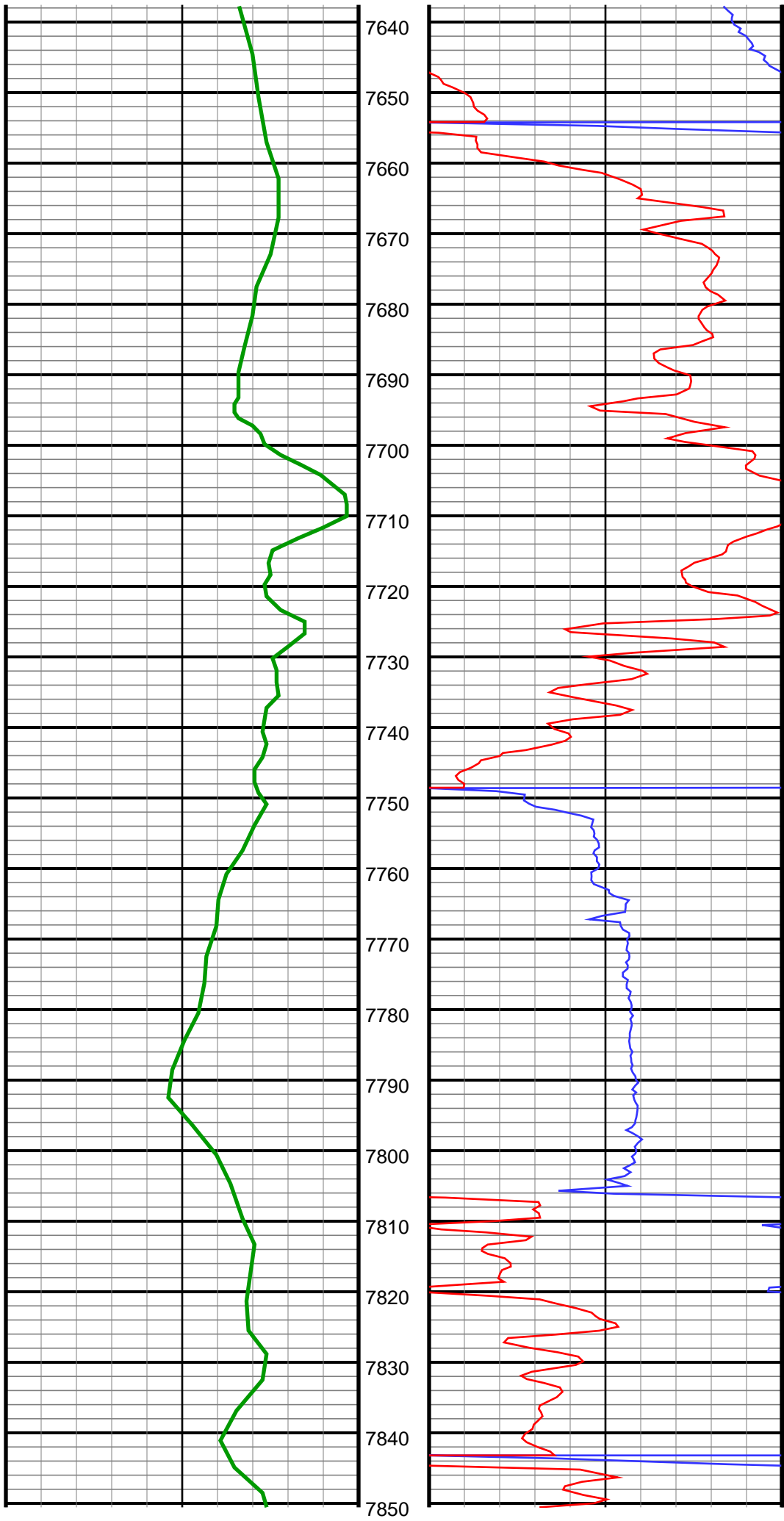
#77 MD(7312.00) Inc(11.7) Azm(189.6) TVD(6454.08)

#78 MD(7406.00) Inc(22.1) Azm(185.3) TVD(6543.90)



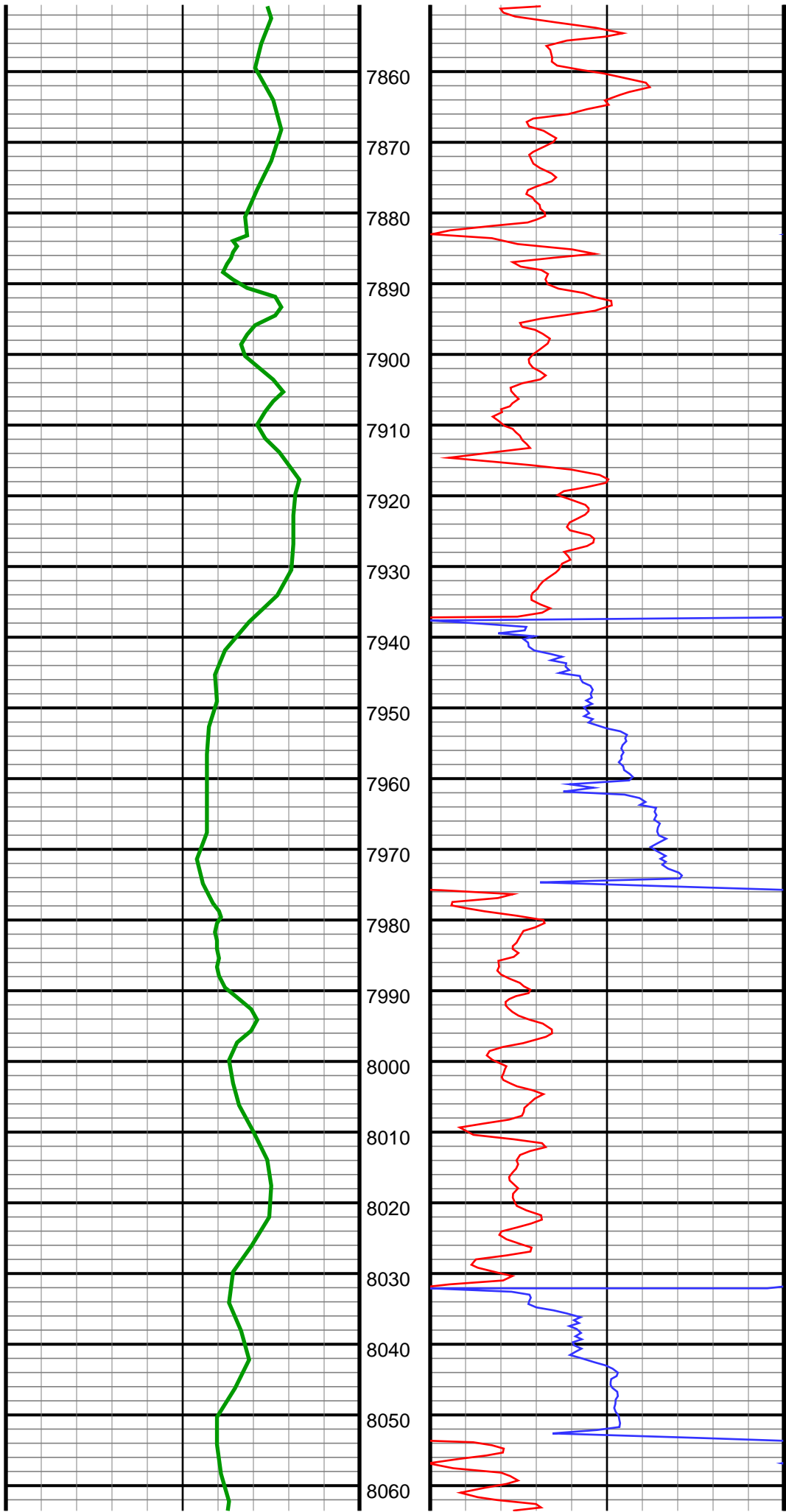
#79 MD(7501.00) Inc(31.4) Azm(183.9) TVD(6628.64)

#80 MD(7596.00) Inc(42.2) Azm(184.4) TVD(6704.60)



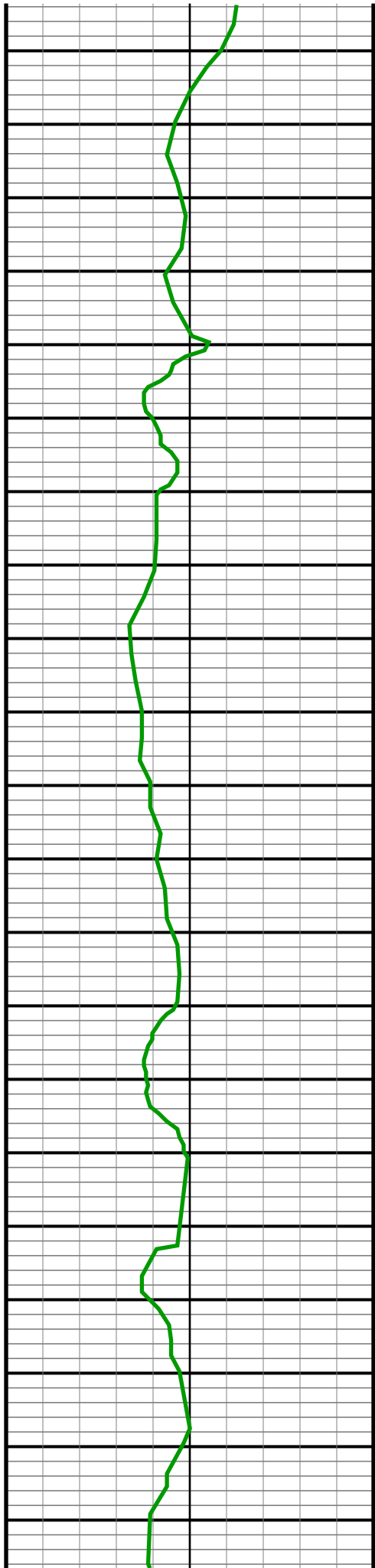
#81 MD(7691.00) Inc(50.7) Azm(186.1) TVD(6770.00)

#82 MD(7785.00) Inc(58.3) Azm(182.9) TVD(6824.55)



#83 MD(7879.00) Inc(63.4) Azm(180.1) TVD(6870.33)

#84 MD(7974.00) Inc(70.7) Azm(179.1) TVD(6907.35)



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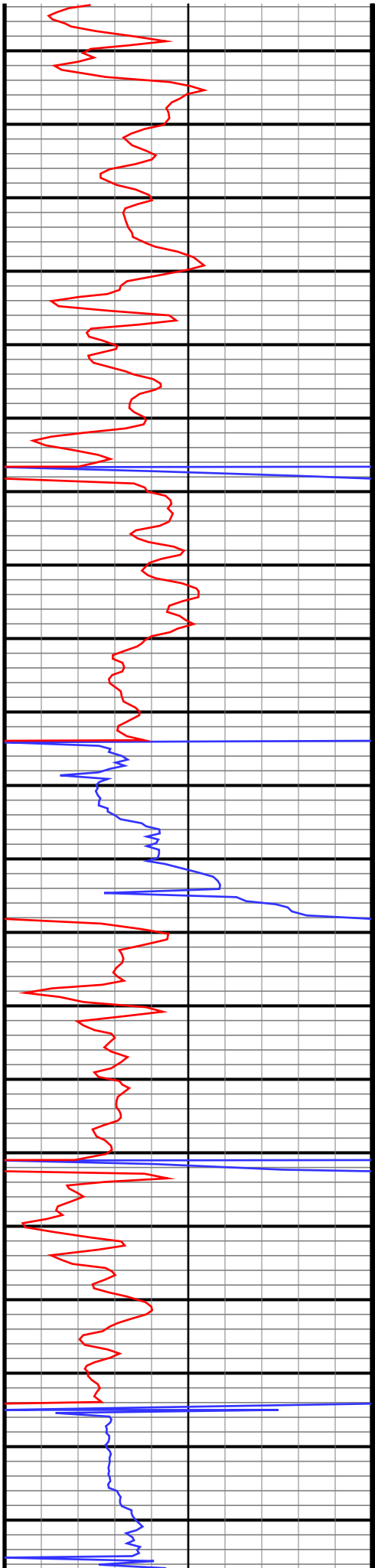
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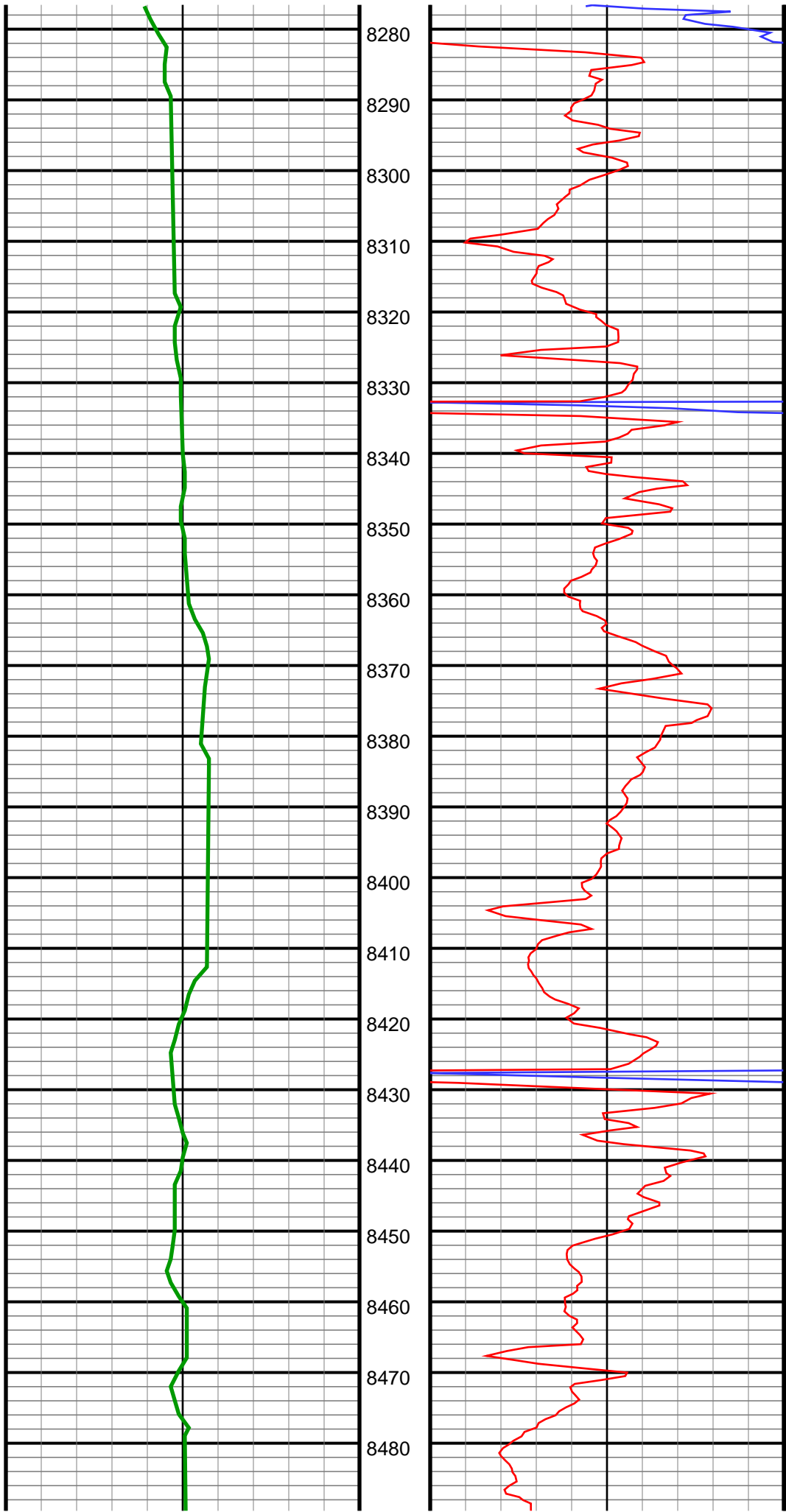
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#85 MD(8069.00) Inc(77.3) Azm(178.6) TVD(6933.52)

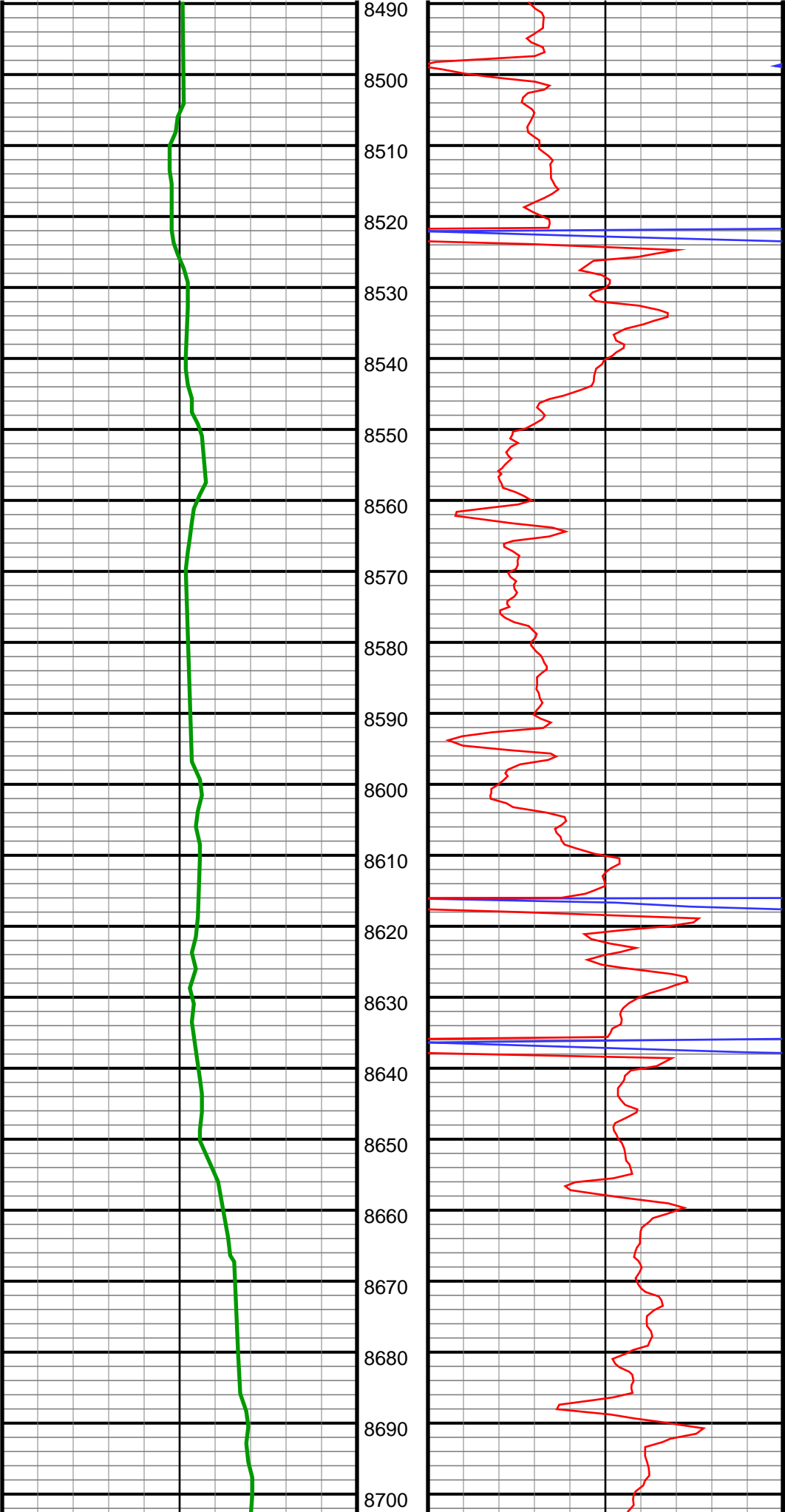
#86 MD(8163.00) Inc(80.0) Azm(178.1) TVD(6952.02)



#87 MD(8285.00) Inc(88.2) Azm(178.6) TVD(6964.55)

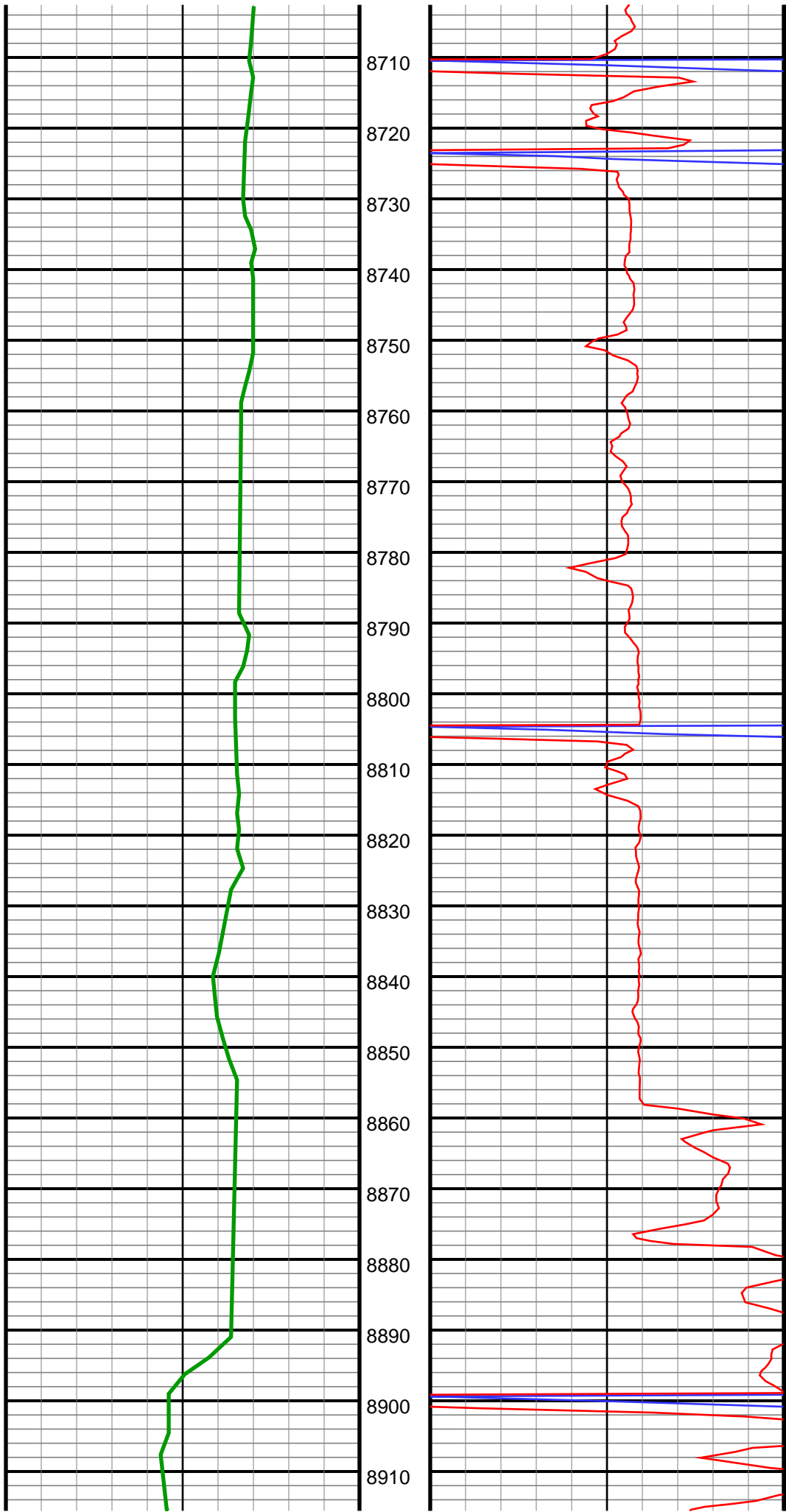
#88 MD(8379.00) Inc(88.4) Azm(177.9) TVD(6967.34)

#89 MD(8473.00) Inc(88.7) Azm(179.1) TVD(6969.72)



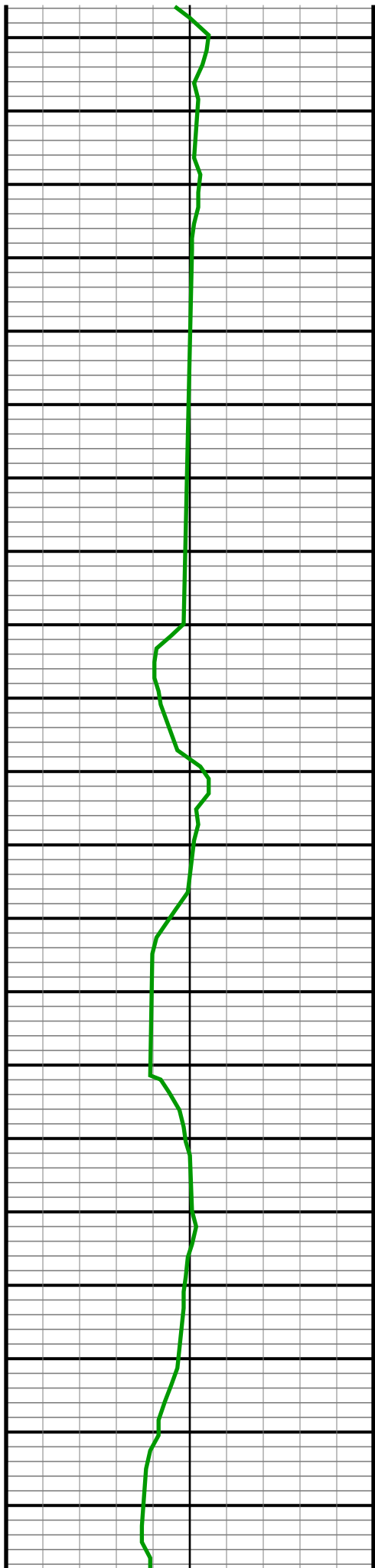
#90 MD(8567.00) Inc(89.1) Azm(178.8) TVD(6971.52)

#91 MD(8662.00) Inc(89.2) Azm(178.1) TVD(6972.93)

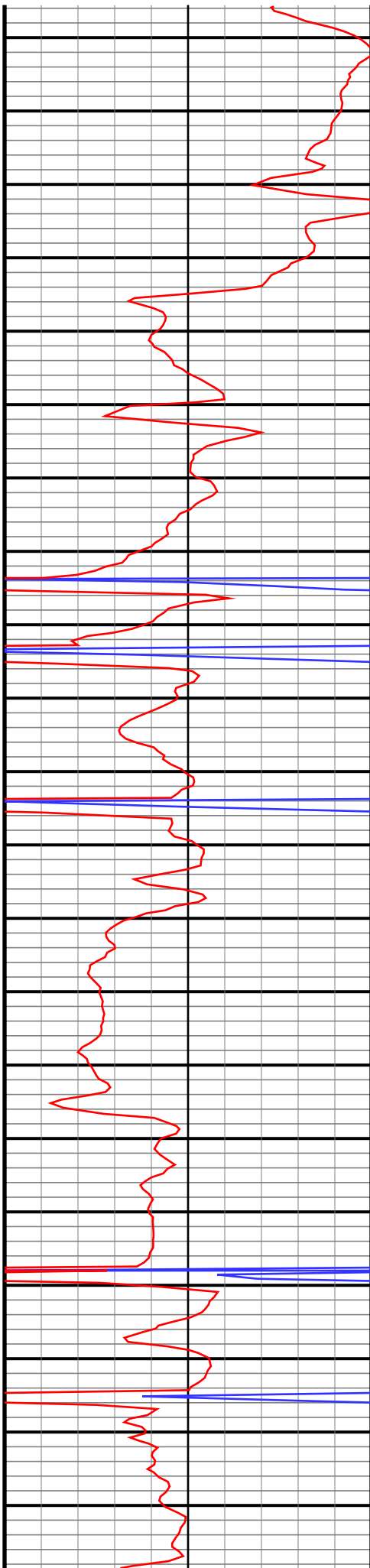


#92 MD(8756.00) Inc(89.5) Azm(178.6) TVD(6974.00)

#93 MD(8850.00) Inc(89.7) Azm(179.2) TVD(6974.65)

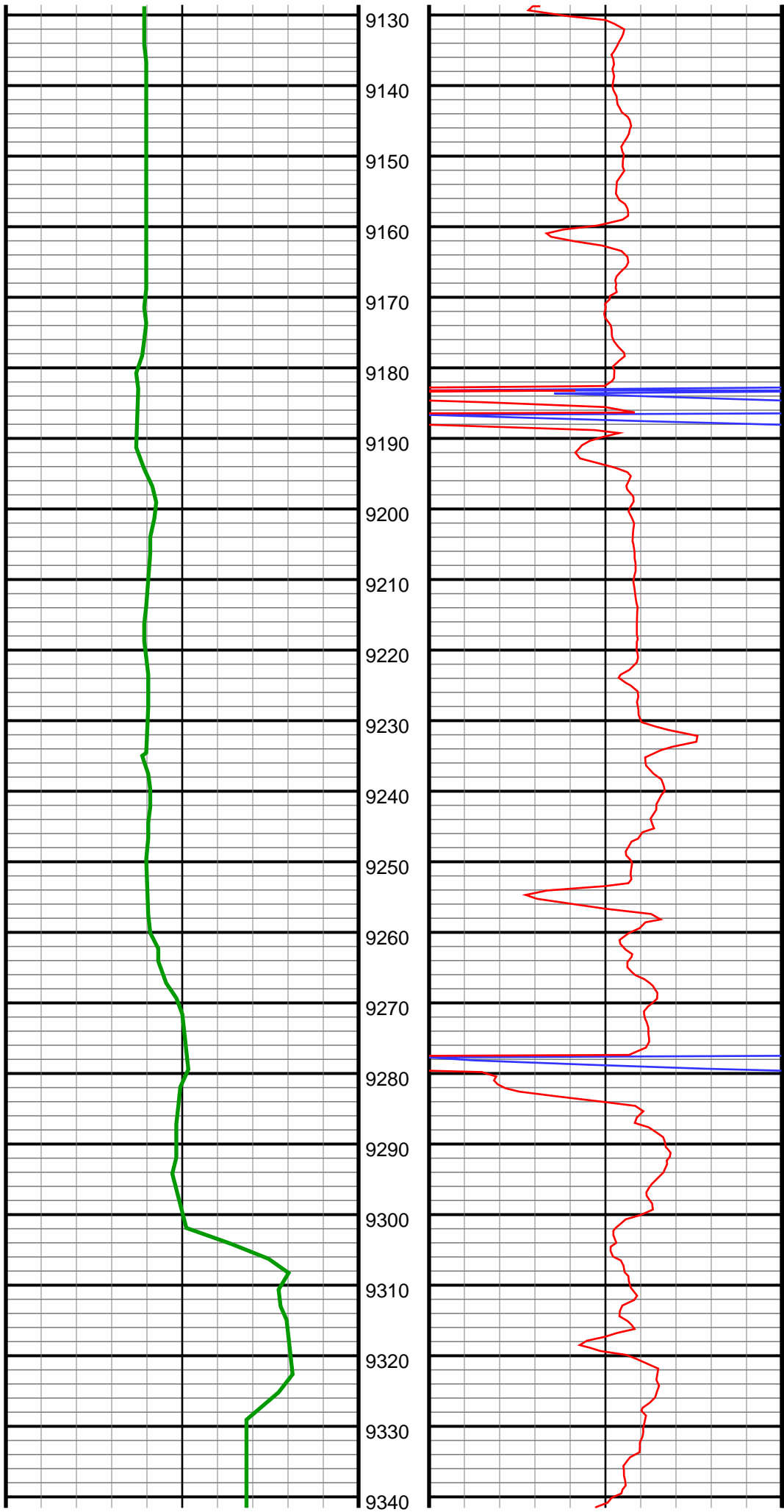


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#94 MD(8945.00) Inc(90.2) Azm(179.0) TVD(6974.74)

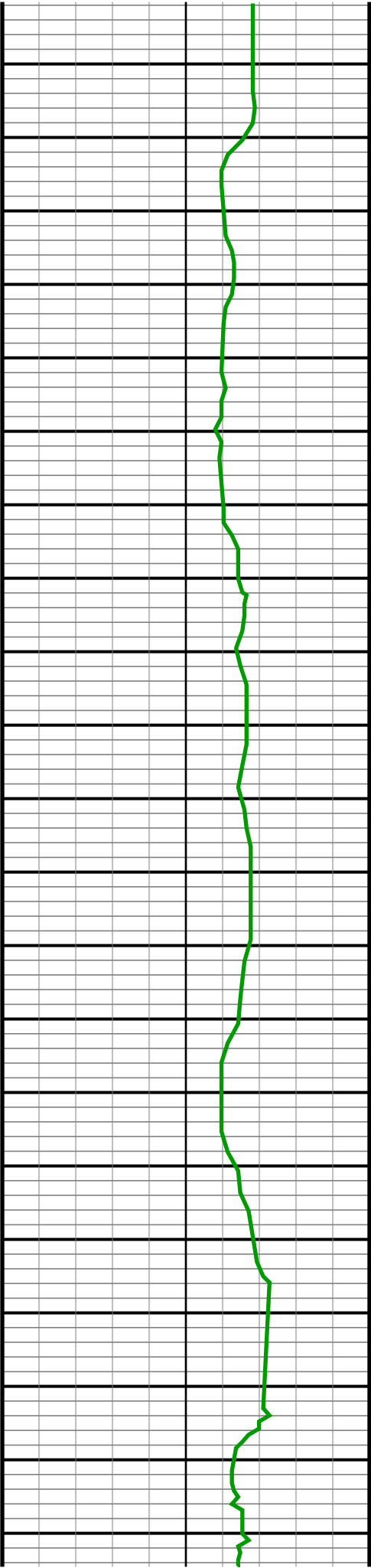
#95 MD(9039.00) Inc(90.6) Azm(179.0) TVD(6974.08)



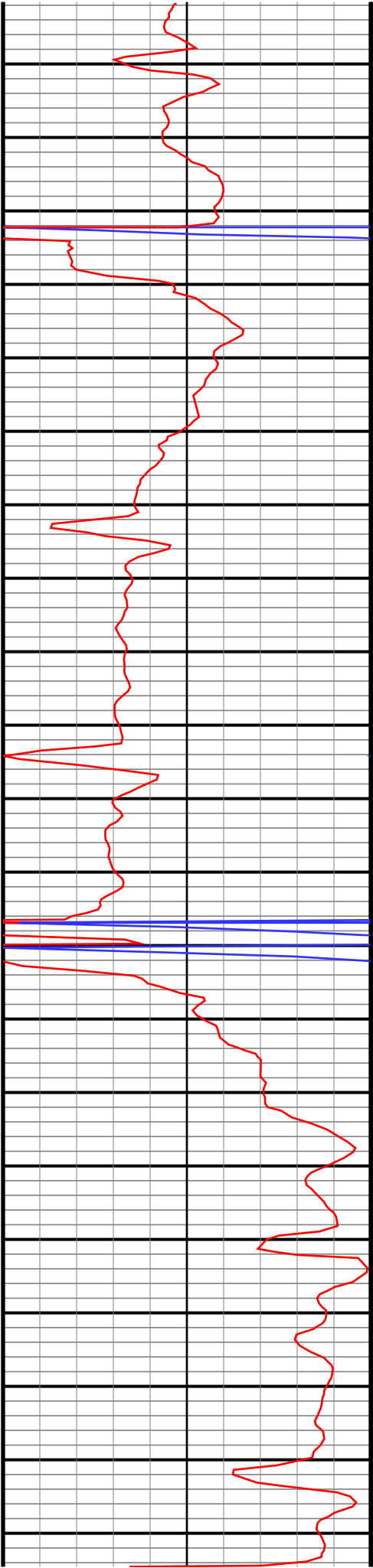
#96 MD(9134.00) Inc(91.1) Azm(178.8) TVD(6972.67)

#97 MD(9228.00) Inc(91.4) Azm(179.1) TVD(6970.62)

#98 MD(9323.00) Inc(91.8) Azm(179.2) TVD(6967.97)

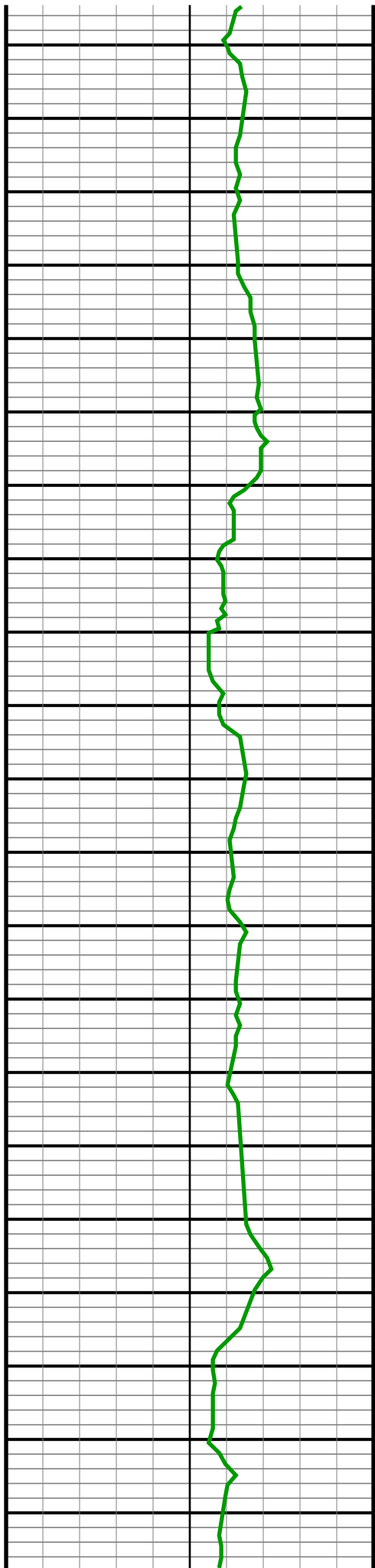


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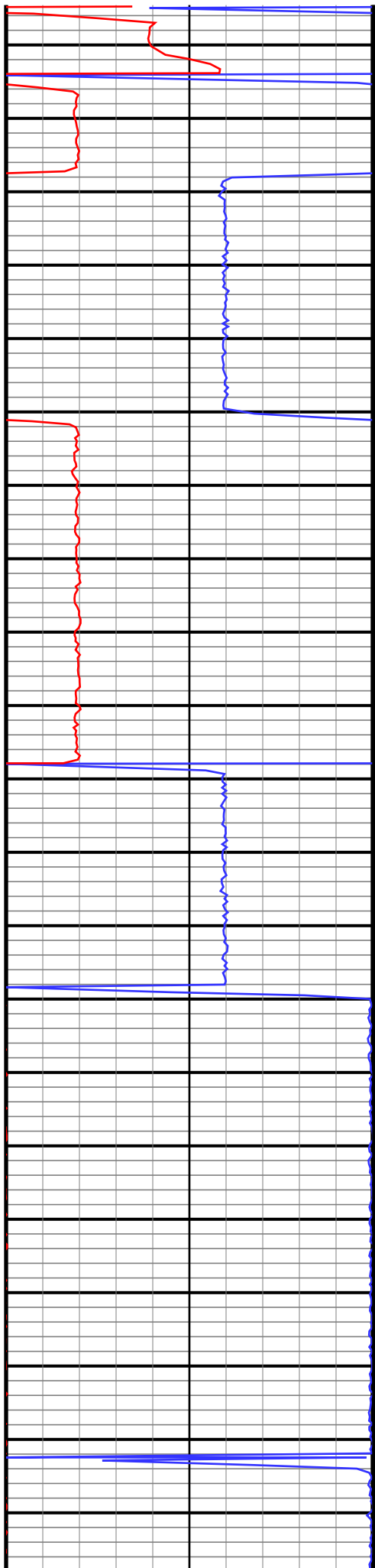


#99 MD(9417.00) Inc(92.4) Azm(179.2) TVD(6964.52)

#100 MD(9512.00) Inc(92.5) Azm(179.5) TVD(6960.46)

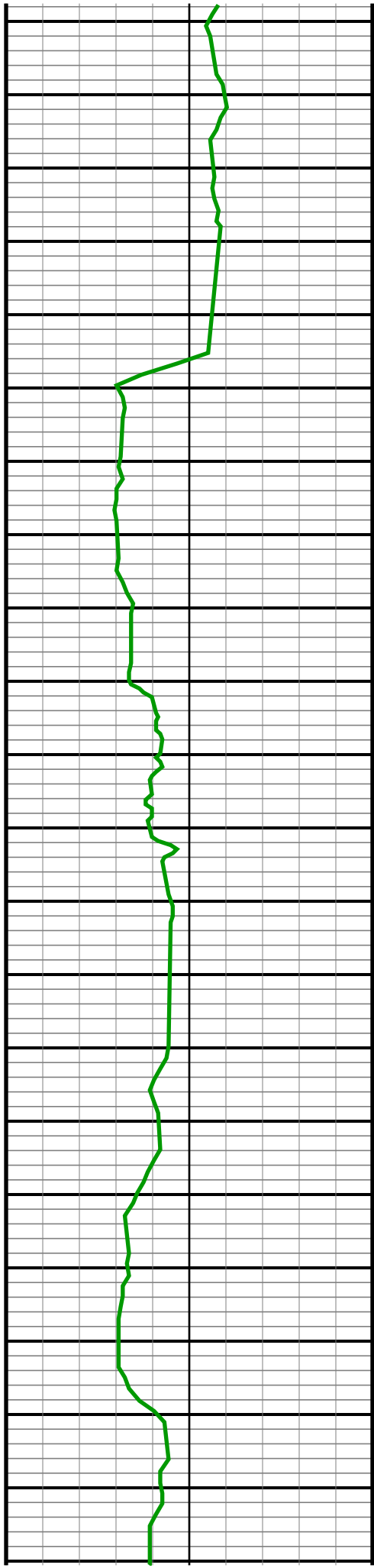


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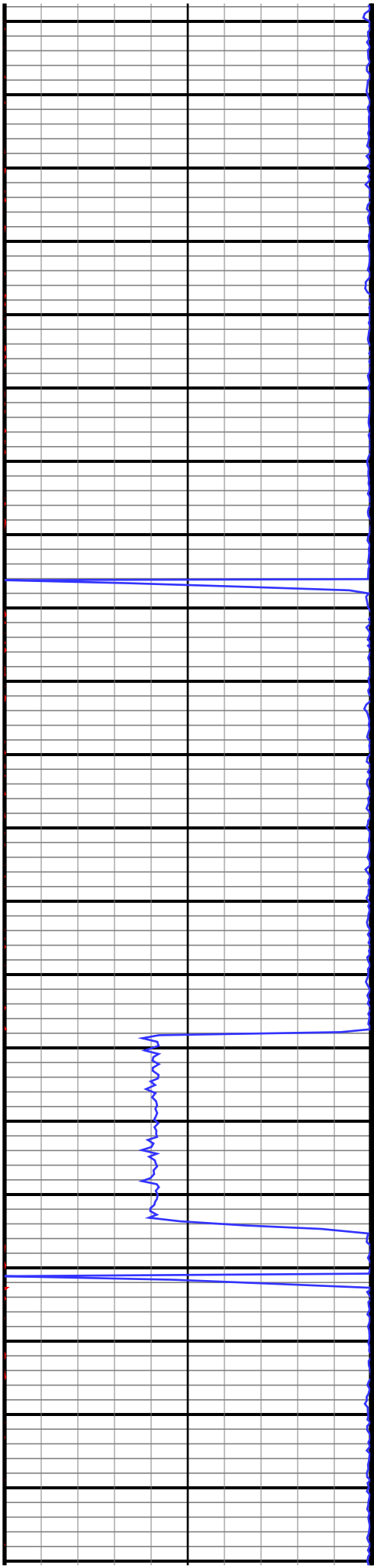


#101 MD(9606.00) Inc(92.5) Azm(180.9) TVD(6956.36)

#102 MD(9701.00) Inc(91.7) Azm(182.3) TVD(6952.88)

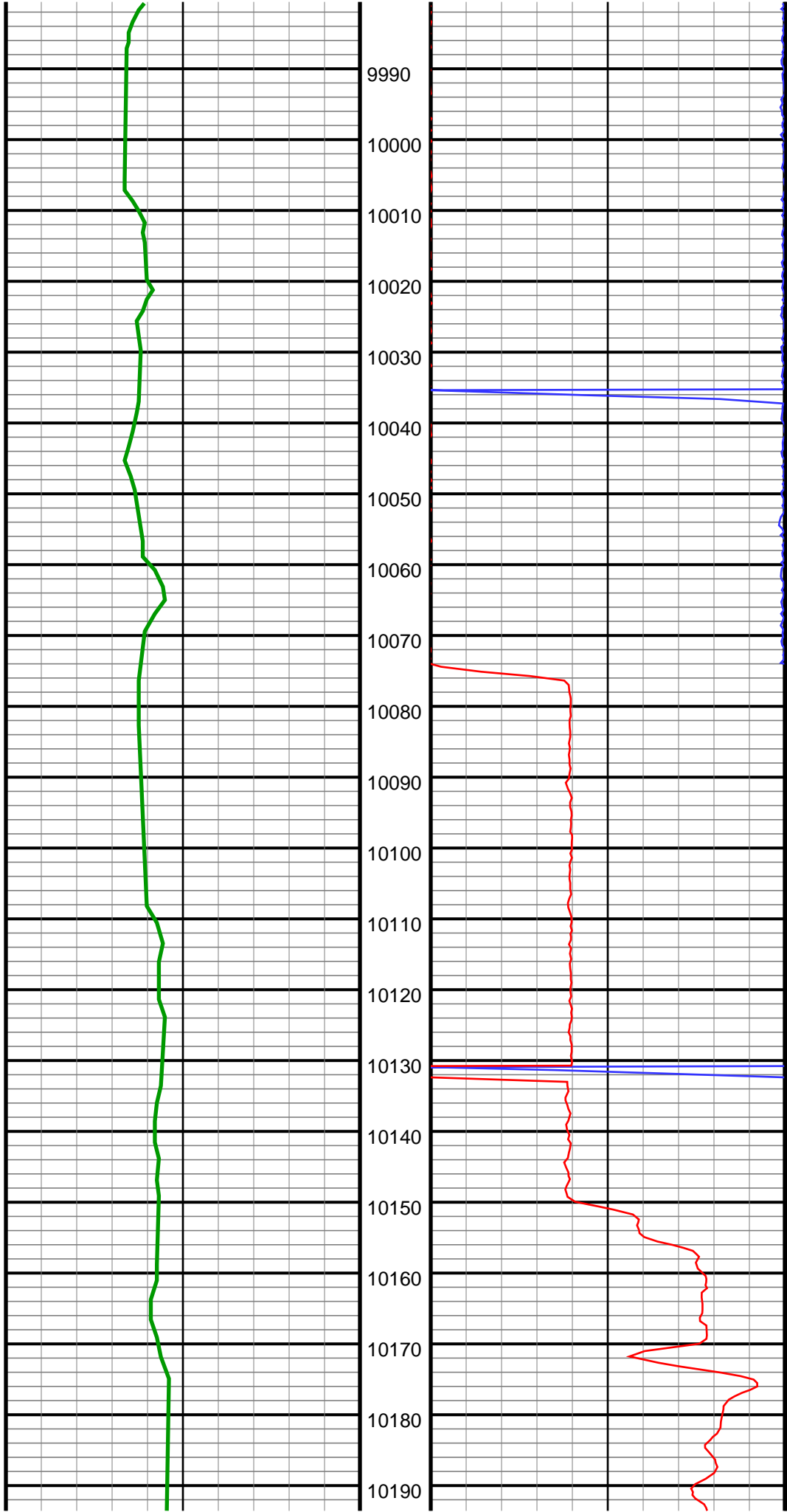


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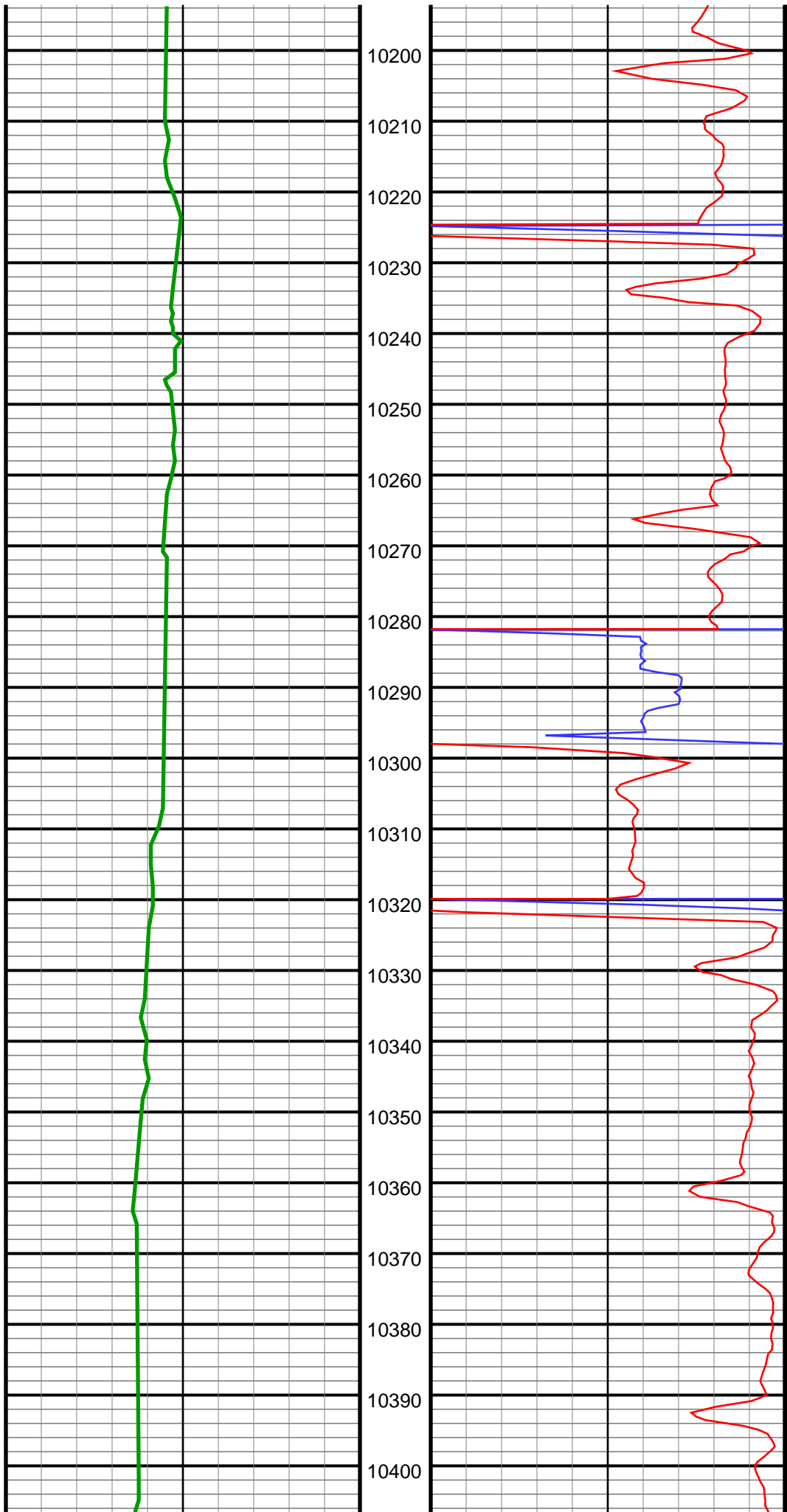
#104 MD(9889.00) Inc(90.2) Azm(184.3) TVD(6949.85)



#105 MD(9984.00) Inc(90.0) Azm(184.2) TVD(6949.68)

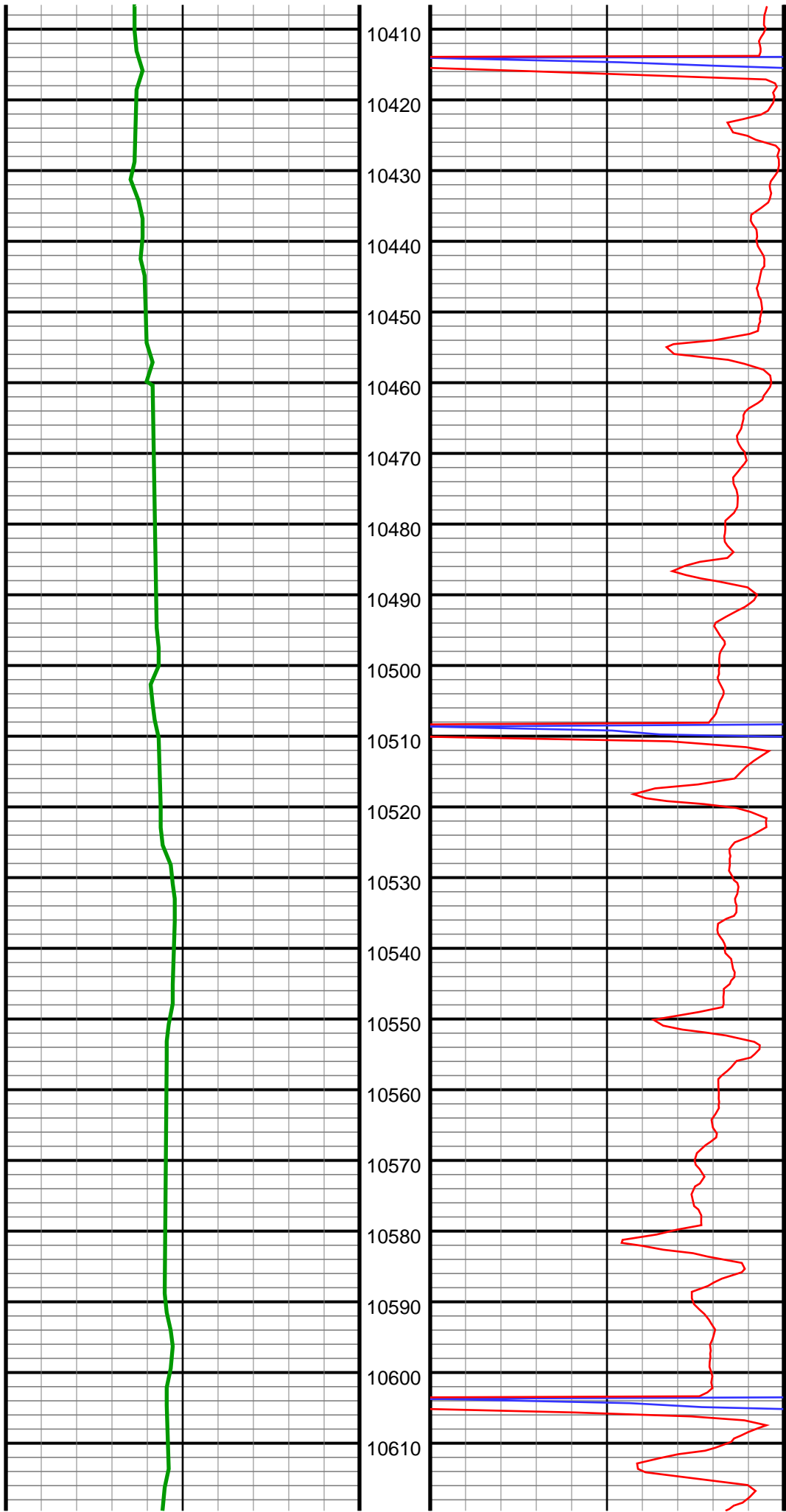
#106 MD(10078.00) Inc(90.0) Azm(182.8) TVD(6949.68)

#107 MD(10173.00) Inc(90.0) Azm(181.5) TVD(6949.68)



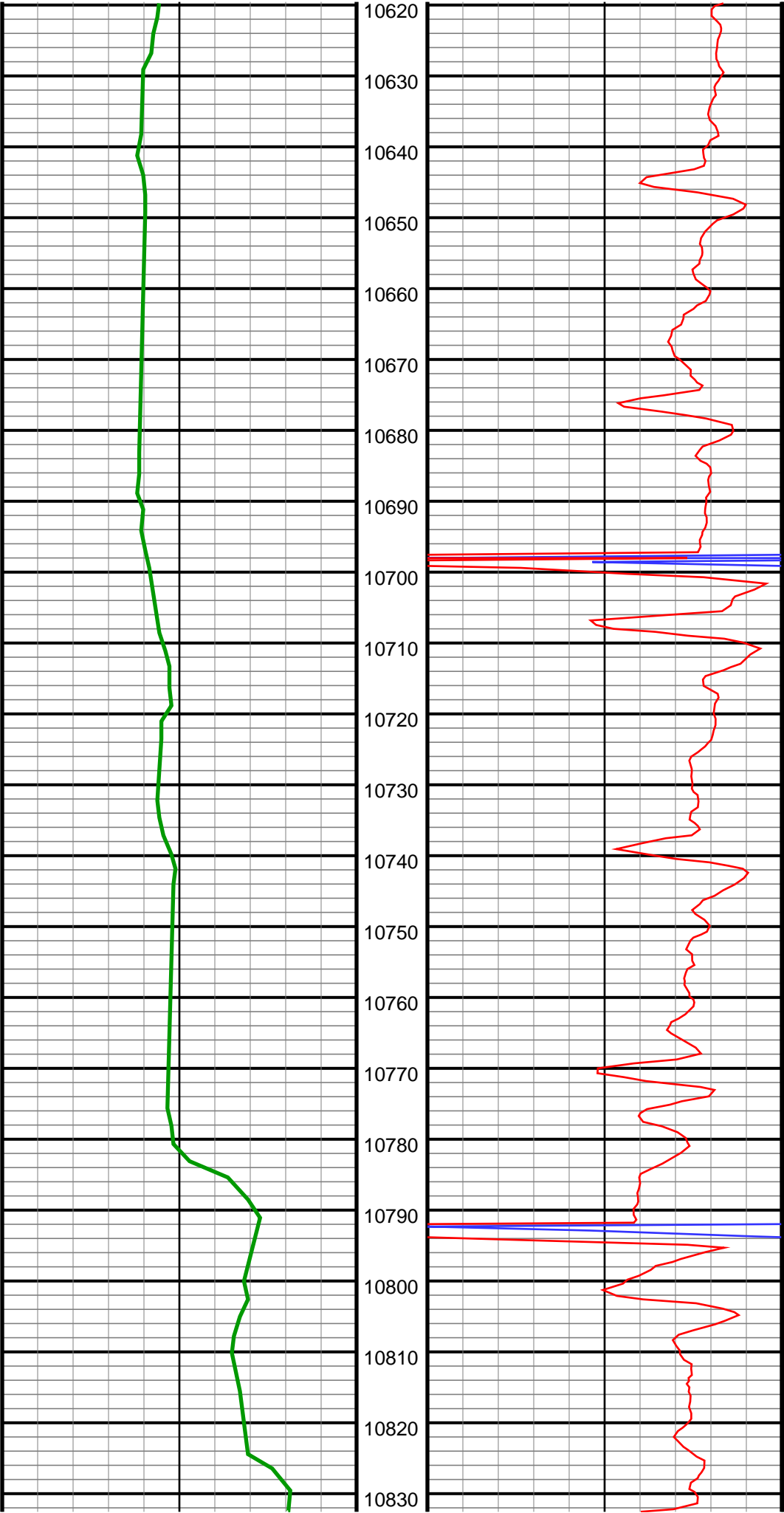
#108 MD(10268.00) Inc(89.9) Azm(180.5) TVD(6949.76)

#109 MD(10363.00) Inc(90.2) Azm(179.2) TVD(6949.68)



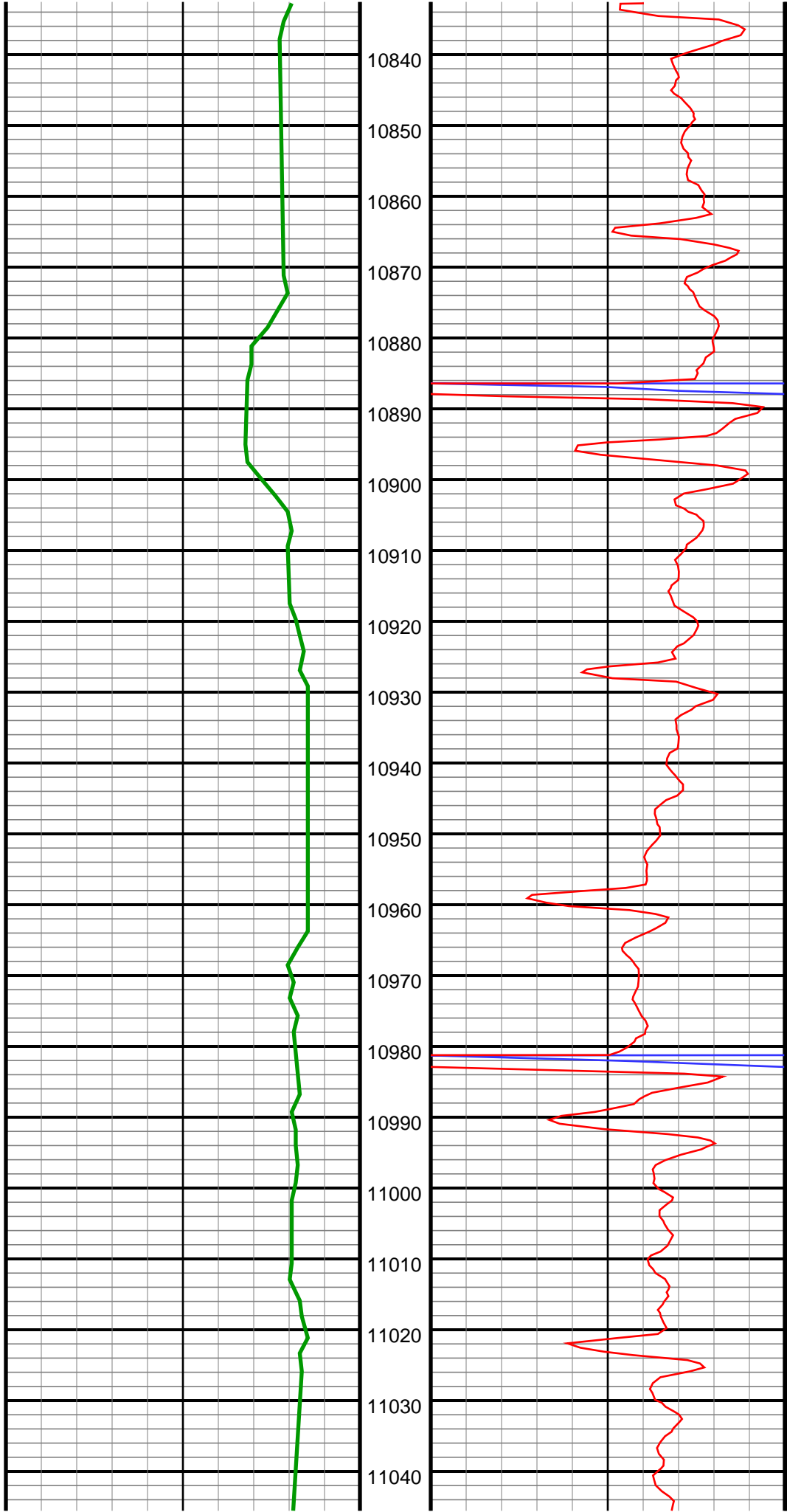
#110 MD(10457.00) Inc(90.0) Azm(179.9) TVD(6949.52)

#111 MD(10551.00) Inc(90.3) Azm(178.8) TVD(6949.27)



#112 MD(10646.00) Inc(90.2) Azm(179.4) TVD(6948.85)

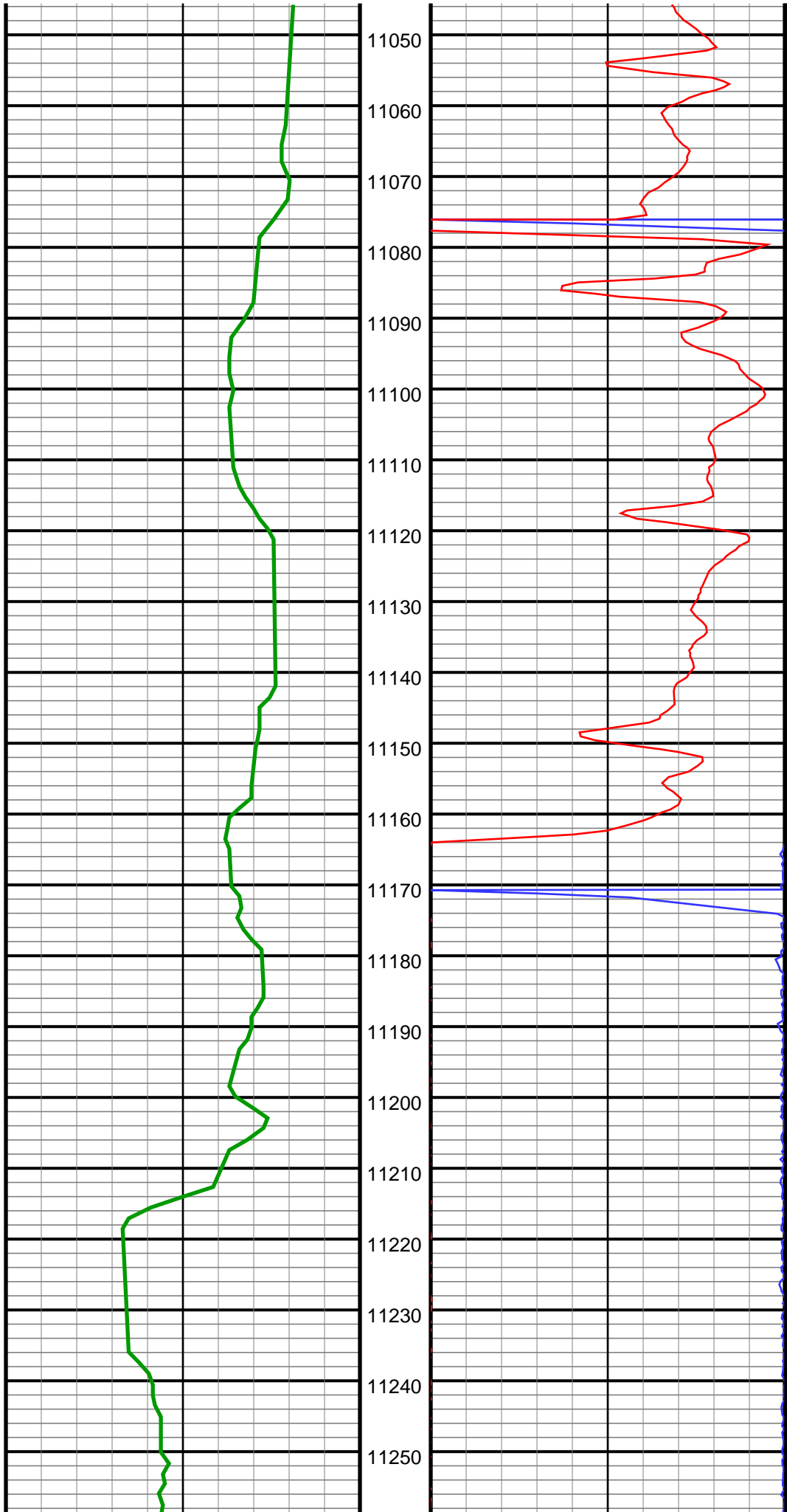
#113 MD(10741.00) Inc(89.9) Azm(179.5) TVD(6948.77)



#114 MD(10835.00) Inc(90.1) Azm(179.8) TVD(6948.77)

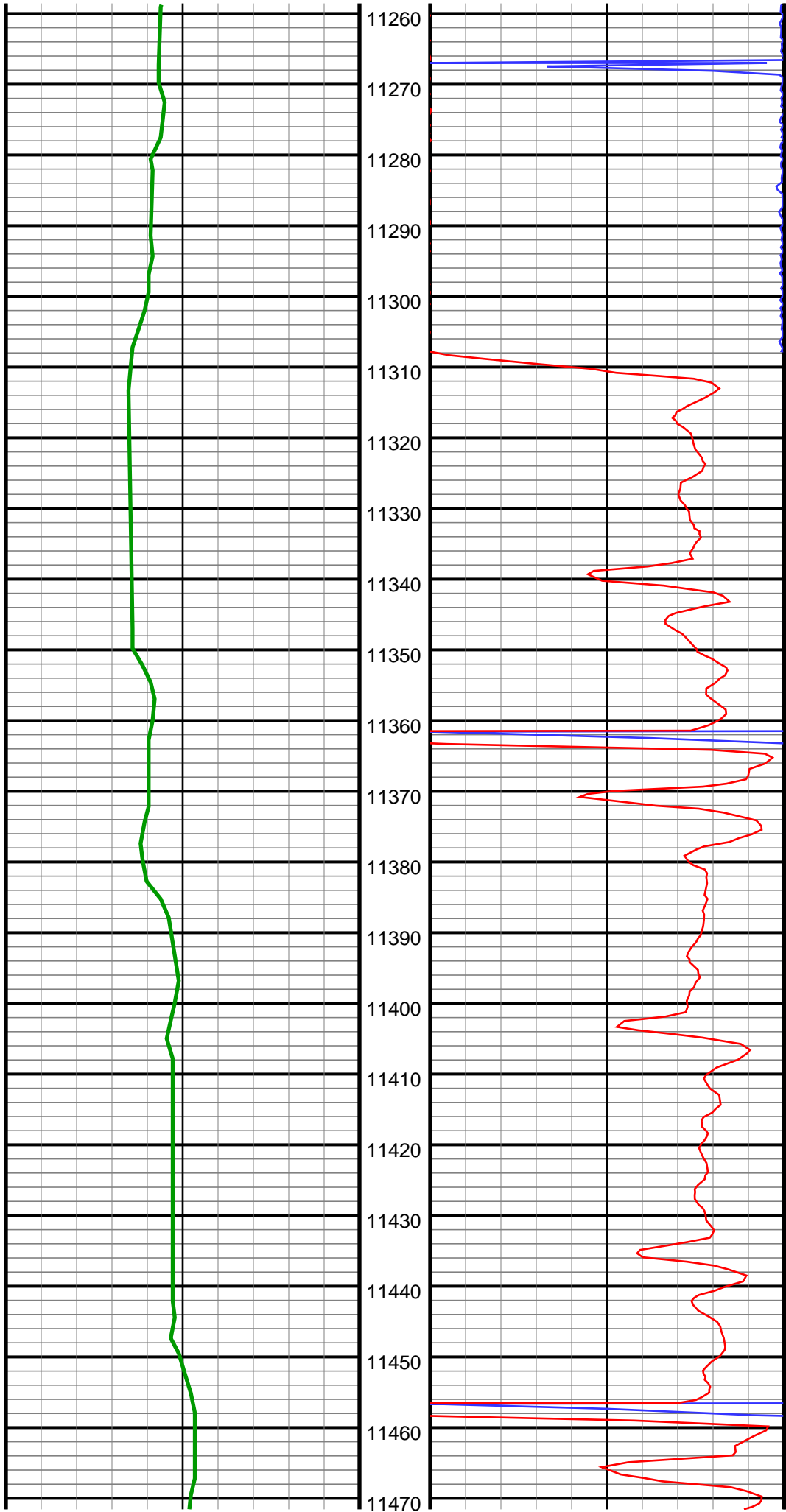
#115 MD(10930.00) Inc(90.5) Azm(178.8) TVD(6948.27)

#116 MD(11025.00) Inc(90.7) Azm(178.6) TVD(6947.28)



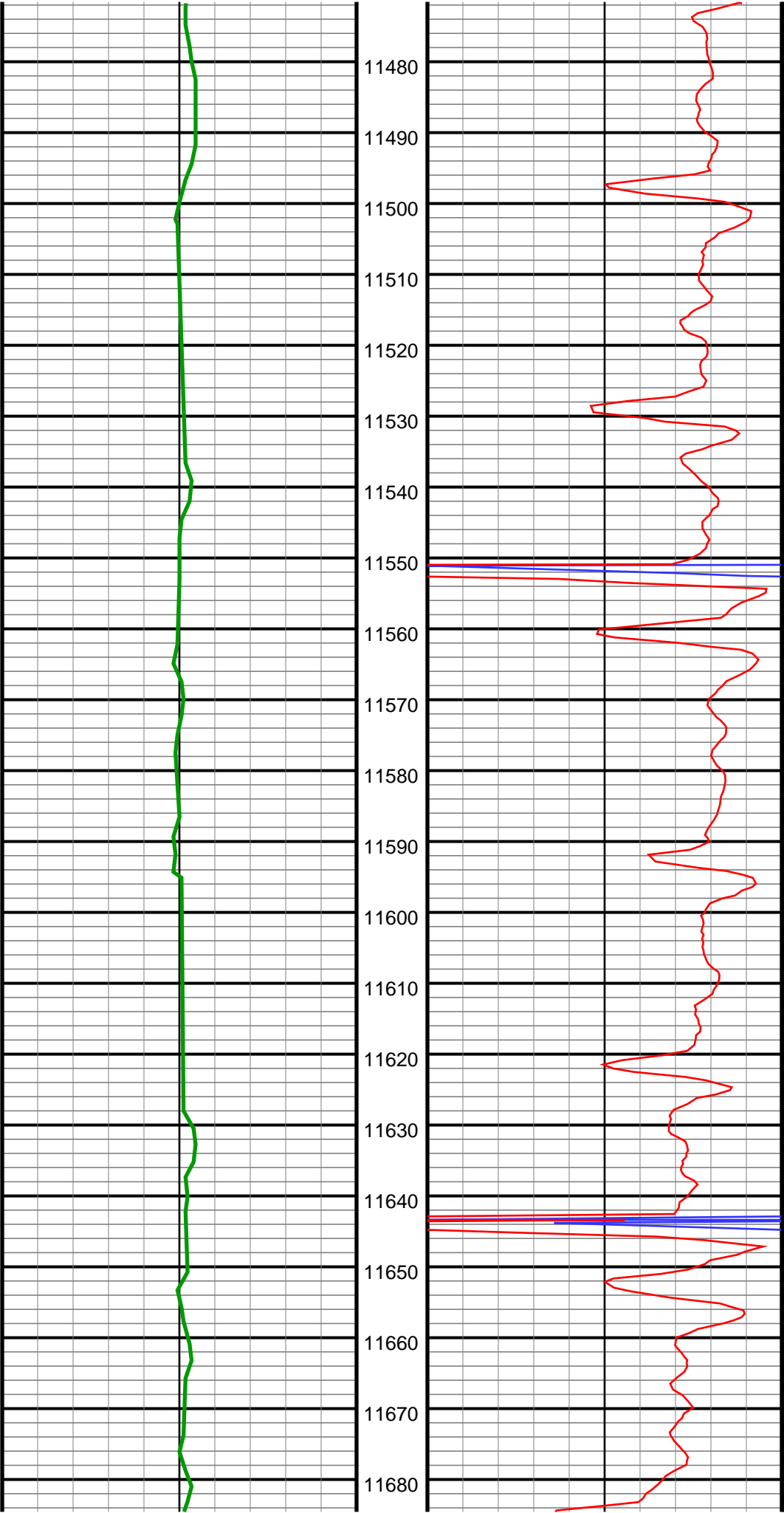
#117 MD(11120.00) Inc(90.9) Azm(178.8) TVD(6945.95)

#118 MD(11215.00) Inc(91.0) Azm(179.5) TVD(6944.38)



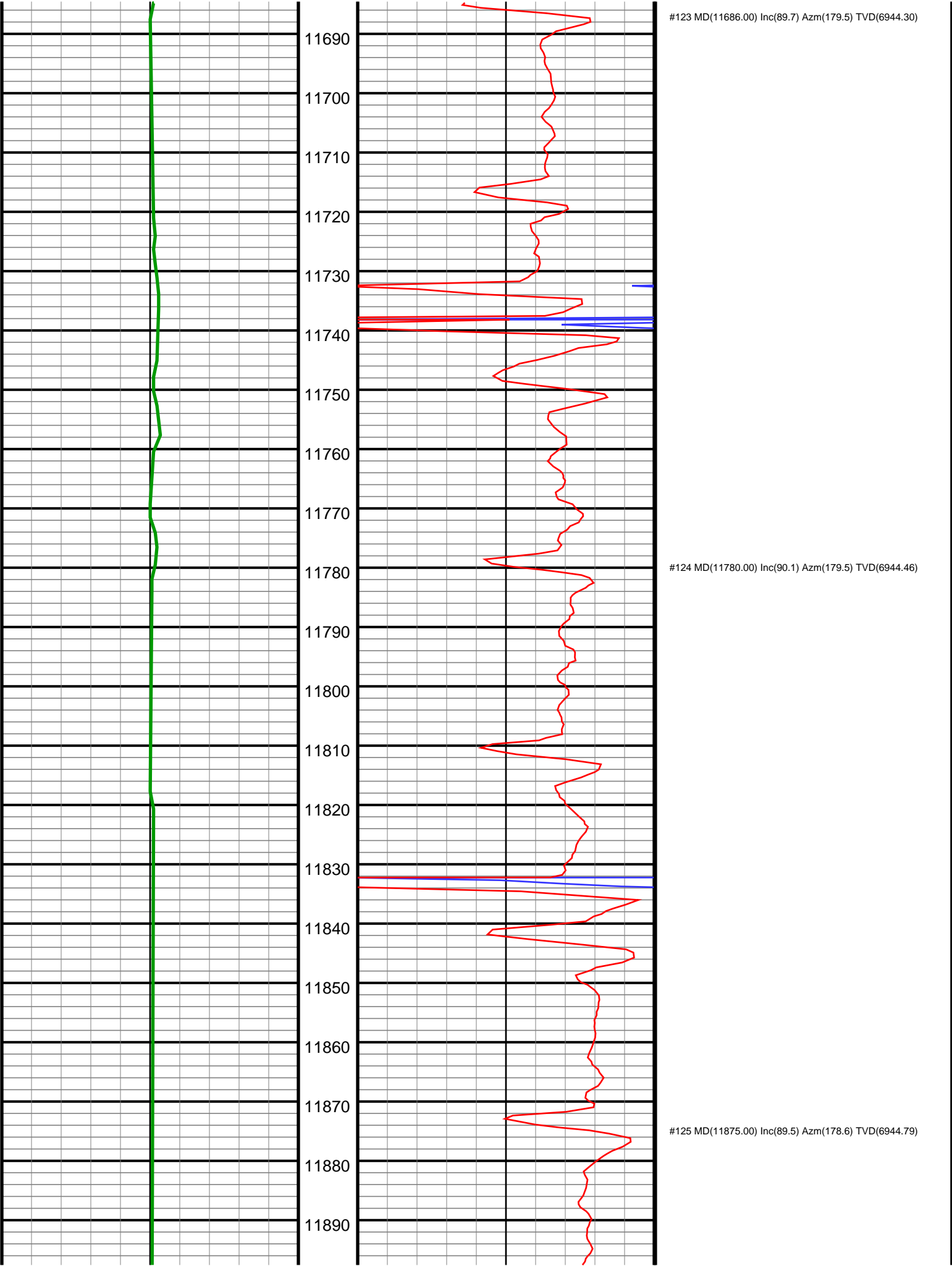
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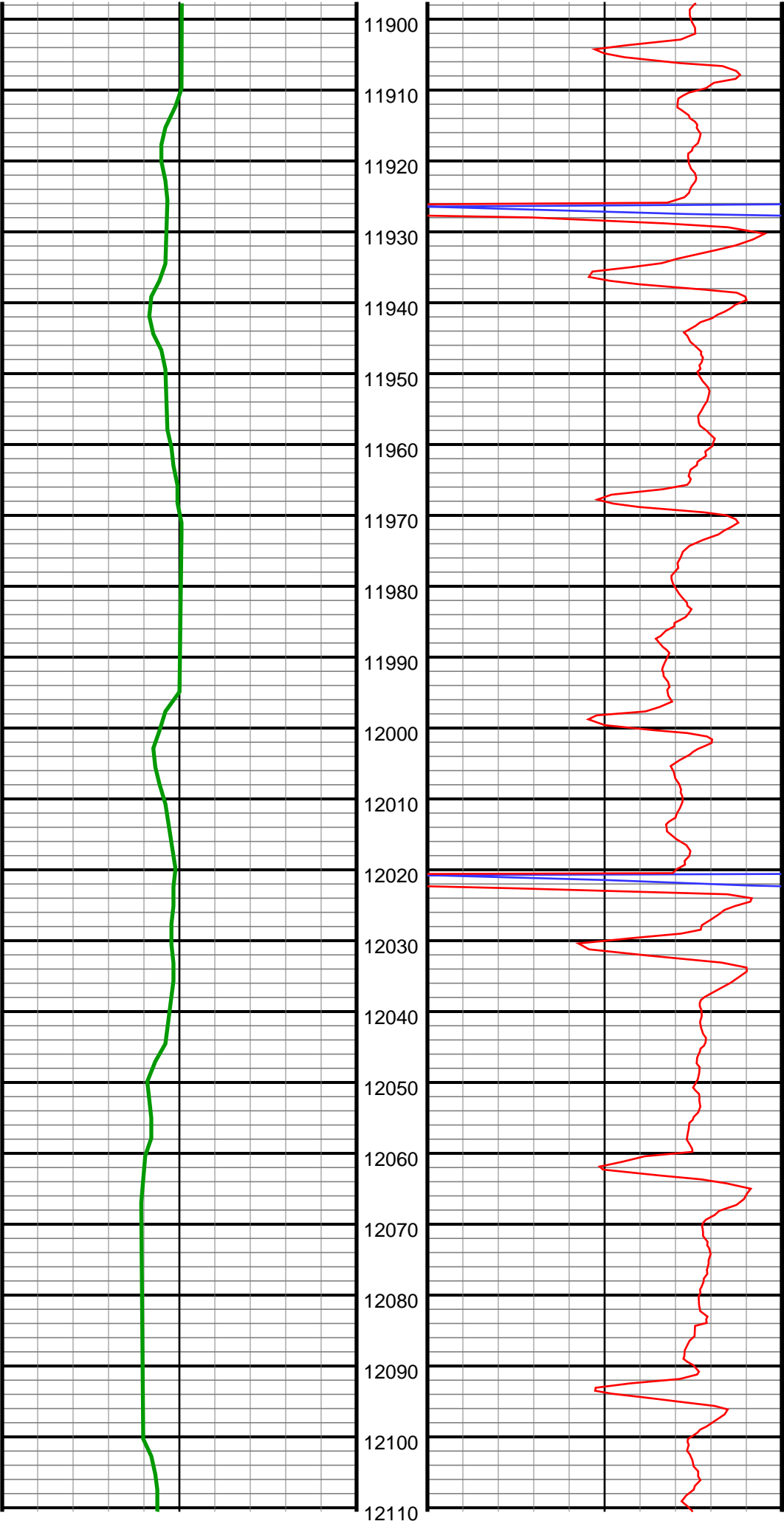
#120 MD(11405.00) Inc(89.8) Azm(178.5) TVD(6944.05)



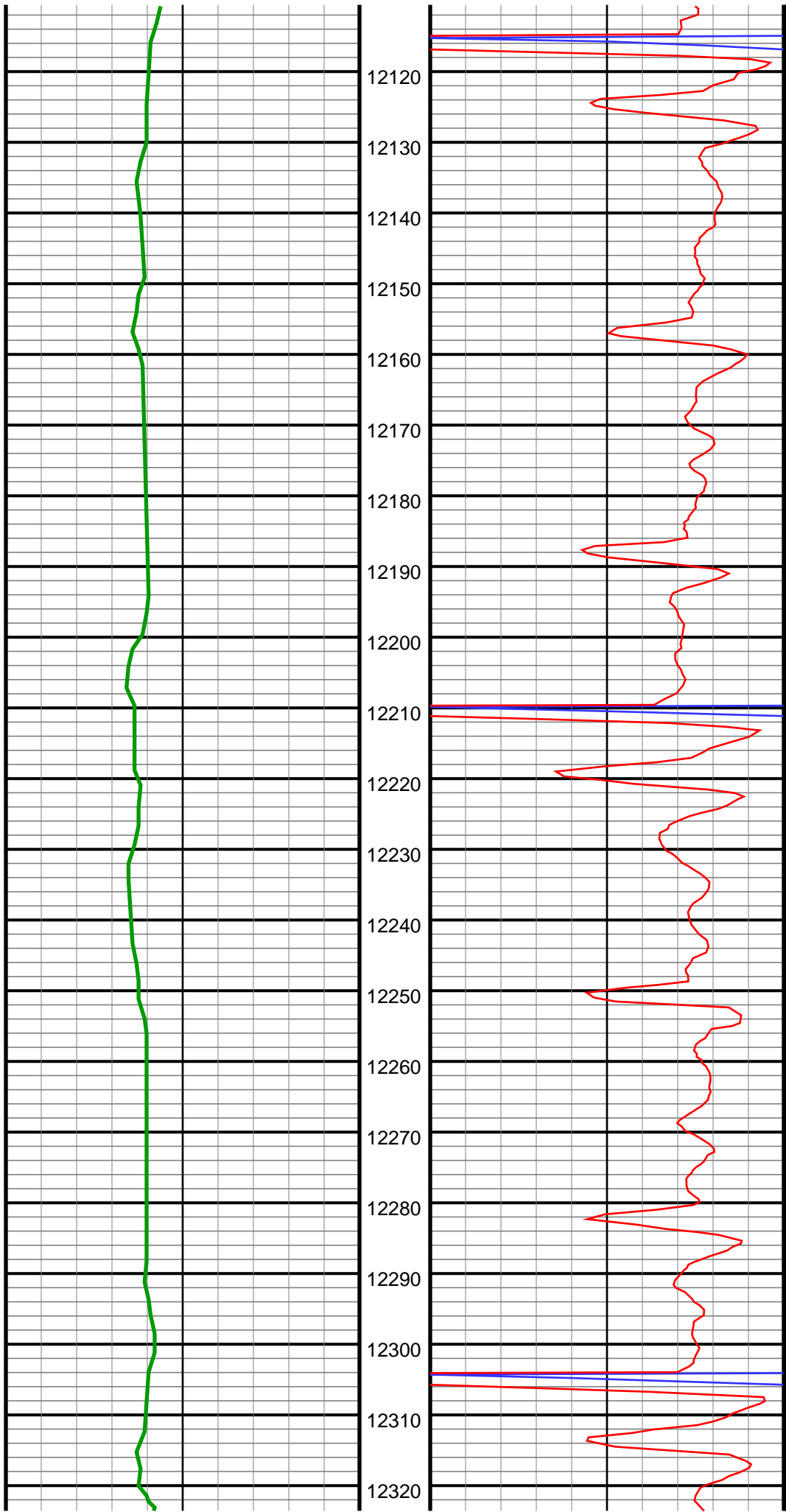
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#122 MD(11592.00) Inc(89.6) Azm(179.8) TVD(6943.72)



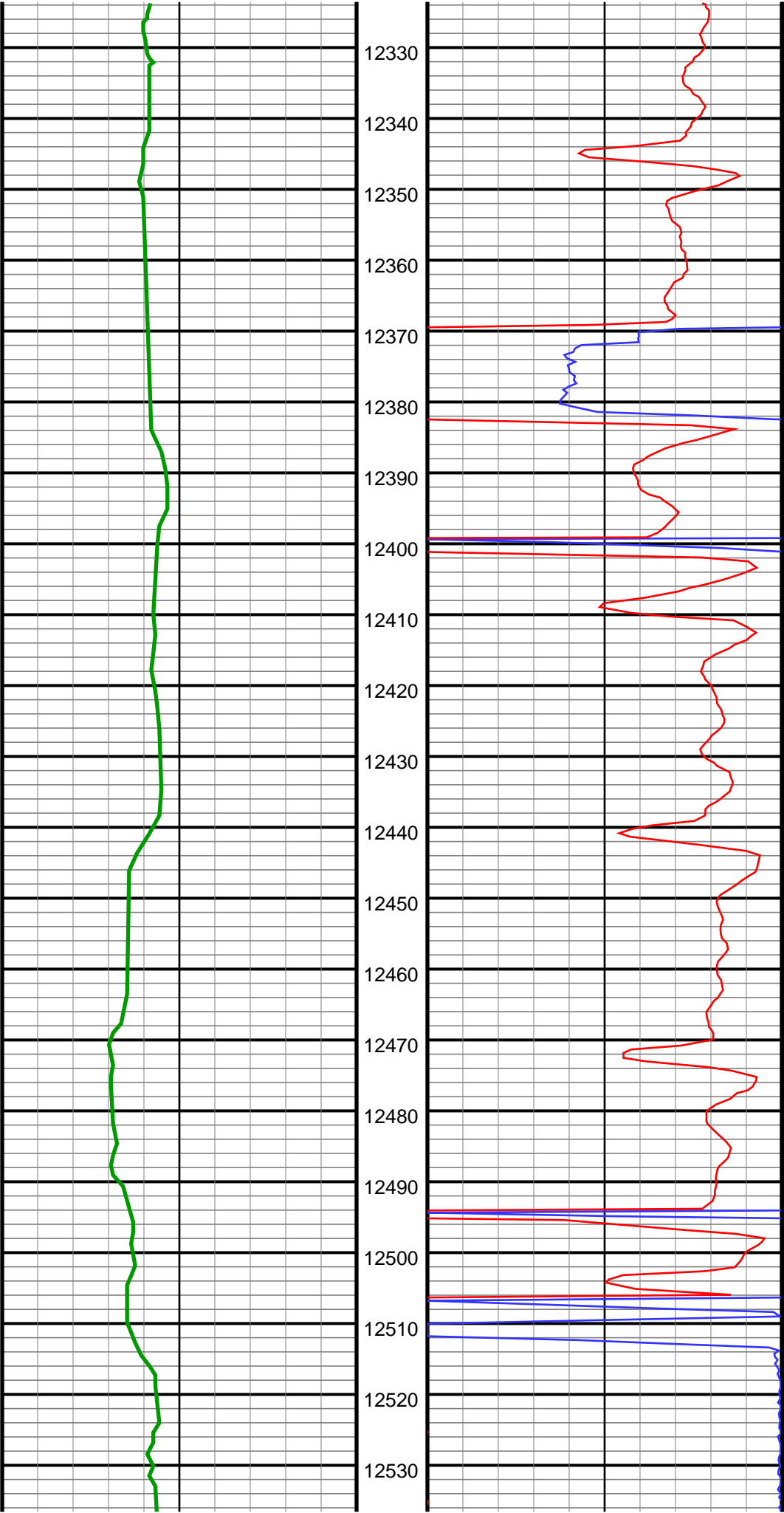


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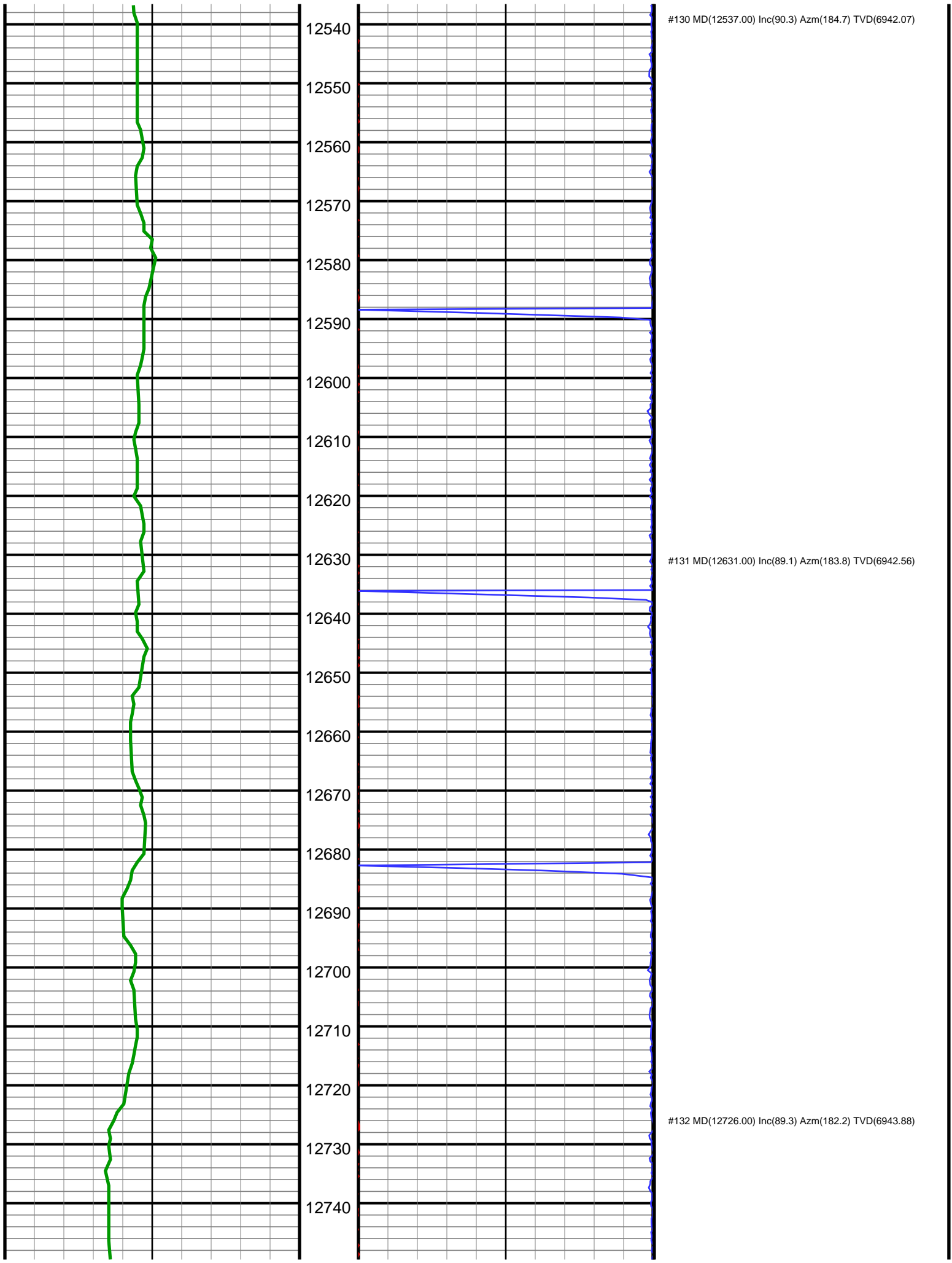


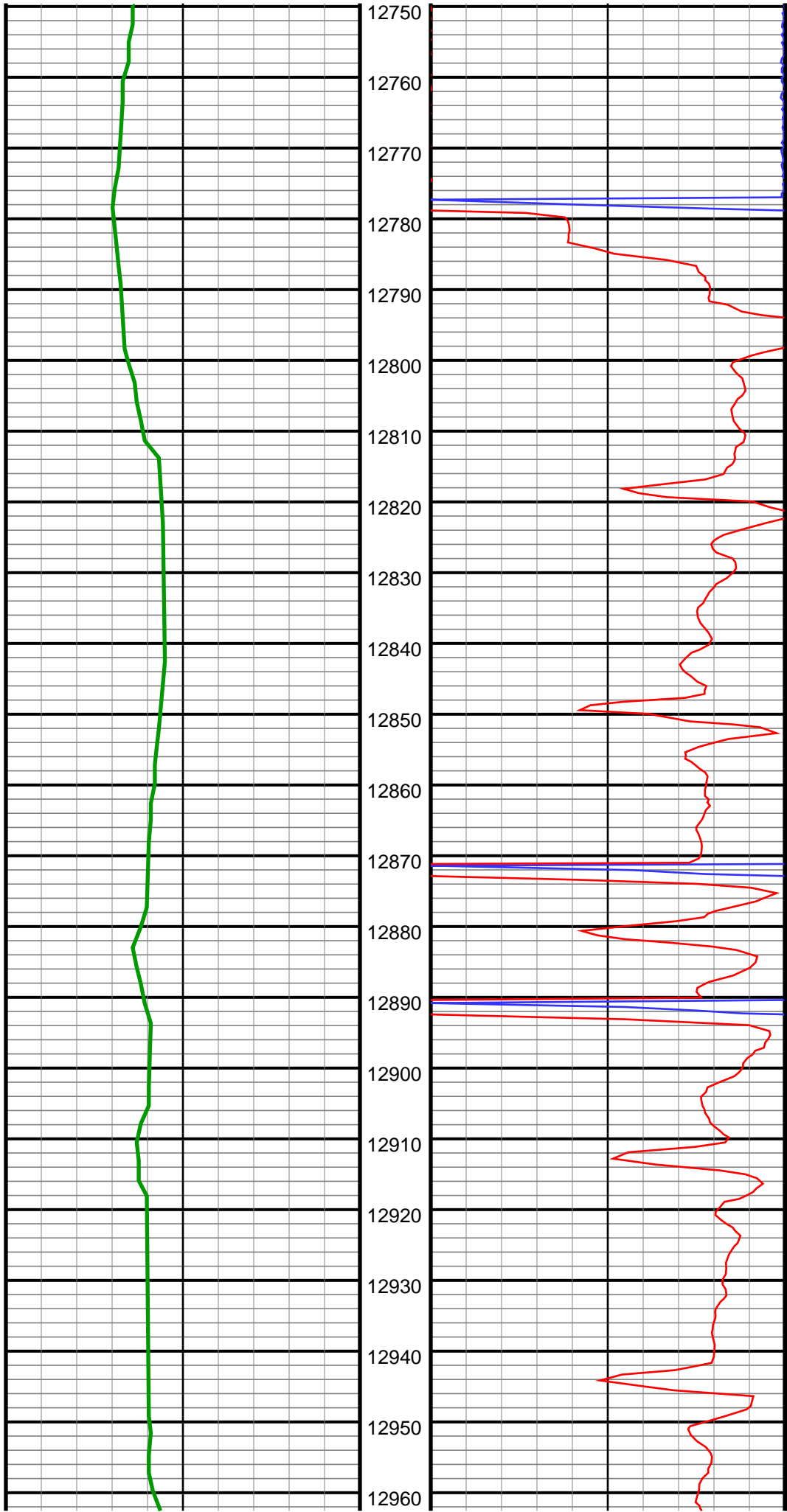
#127 MD(12159.00) Inc(90.3) Azm(181.6) TVD(6943.96)

#128 MD(12253.00) Inc(90.4) Azm(181.5) TVD(6943.39)



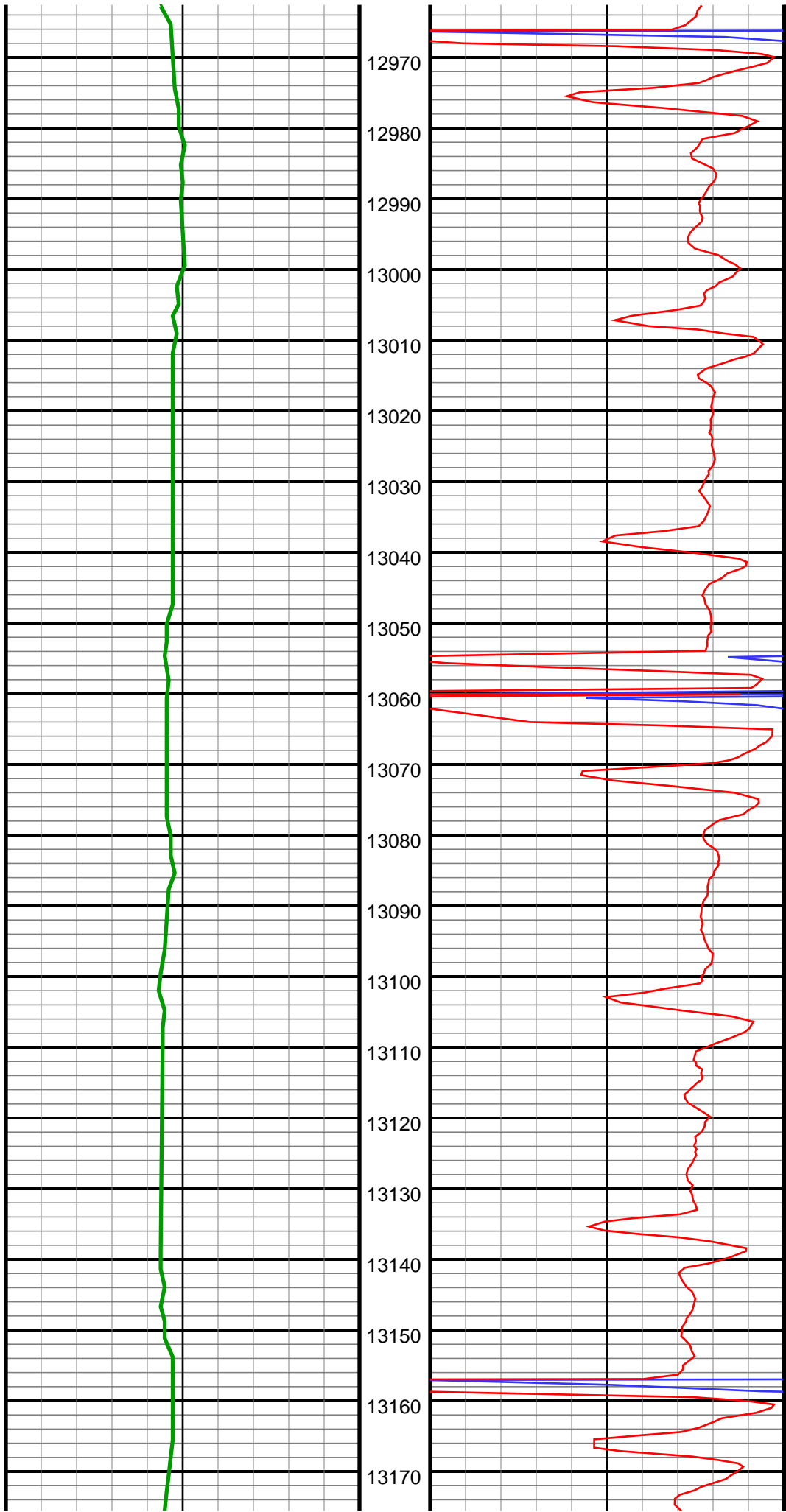
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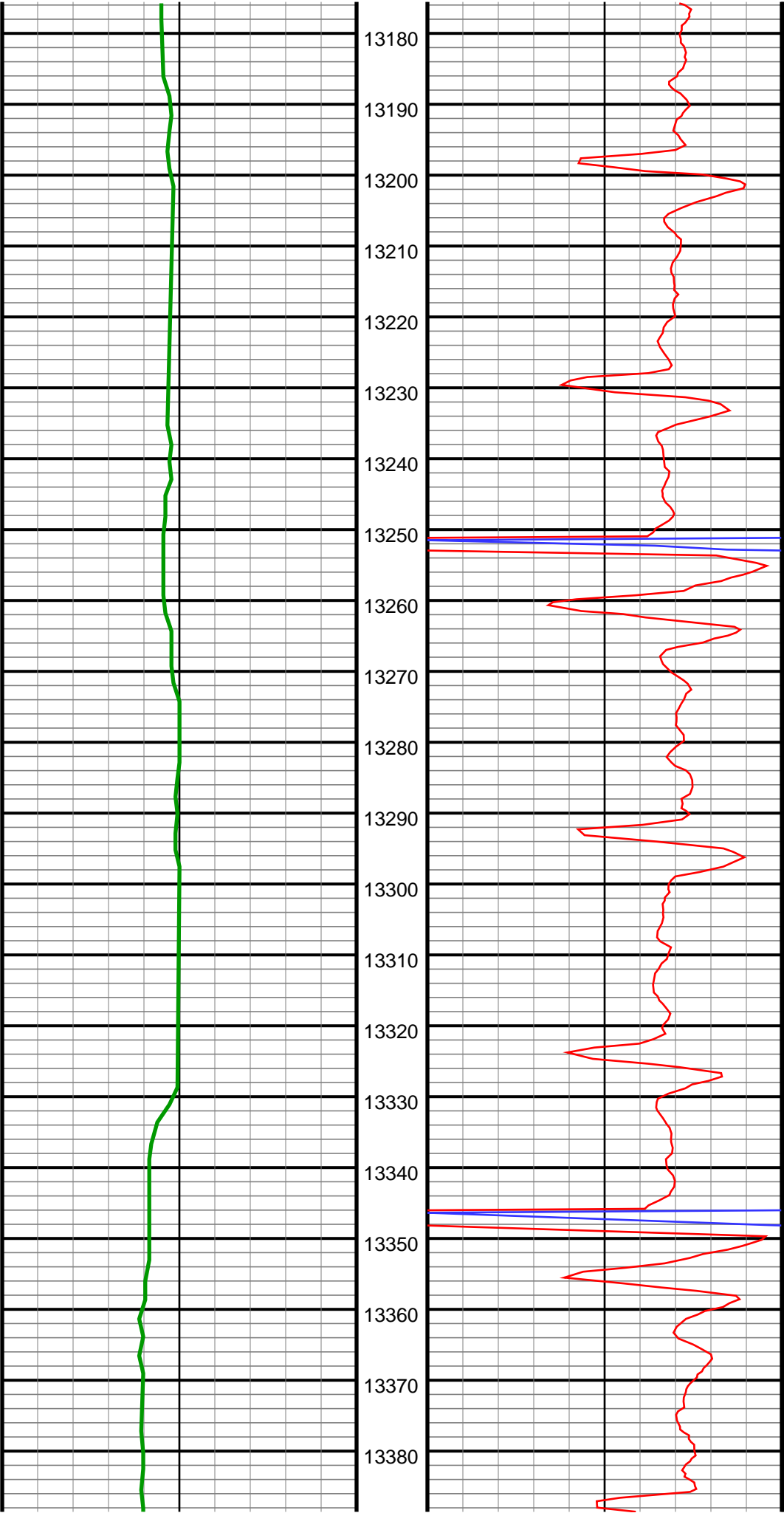
#133 MD(12821.00) Inc(89.0) Azm(180.9) TVD(6945.29)

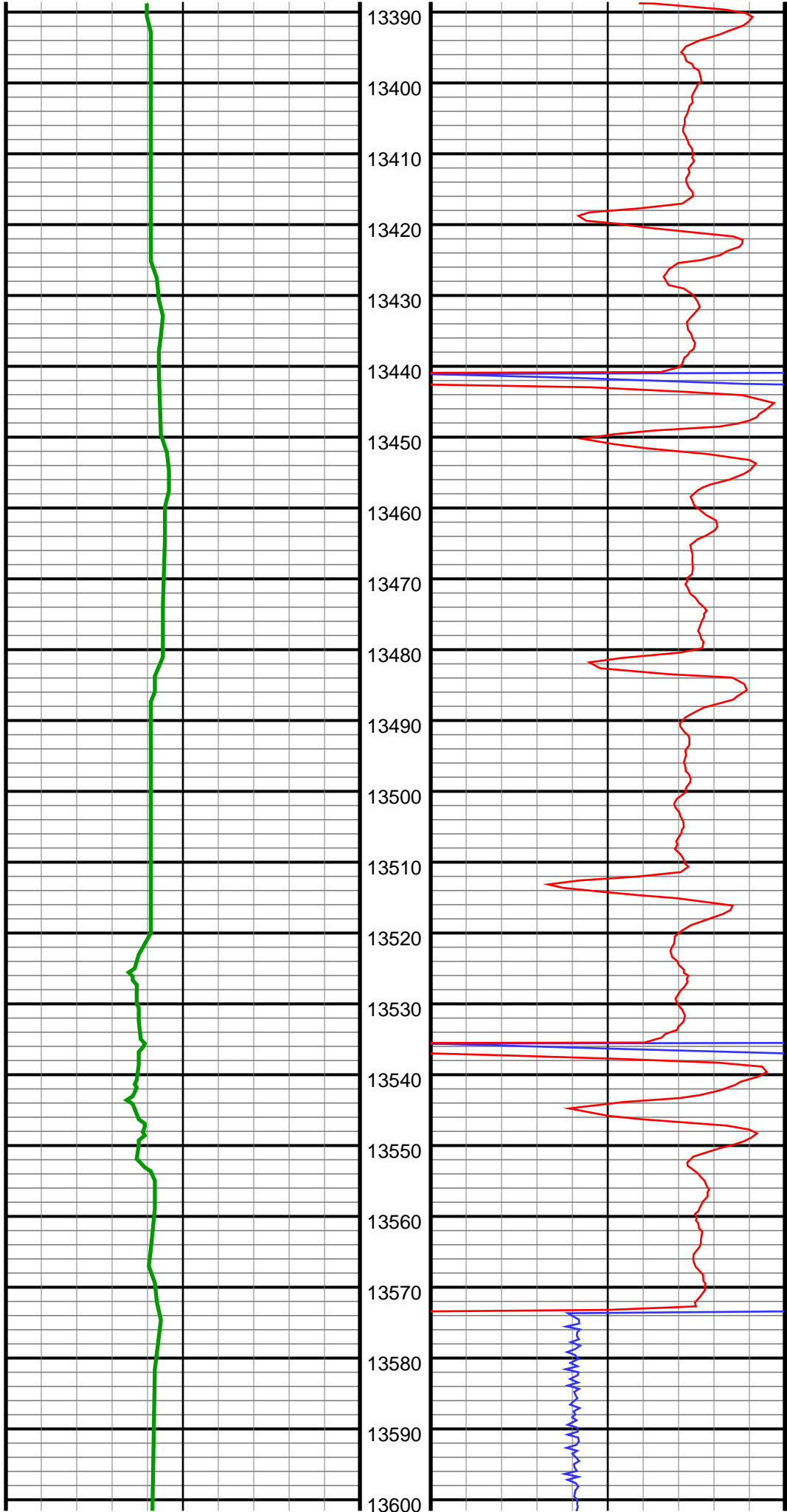
#134 MD(12916.00) Inc(89.8) Azm(179.8) TVD(6946.29)



#135 MD(13010.00) Inc(90.2) Azm(180.5) TVD(6946.29)

#136 MD(13105.00) Inc(90.2) Azm(181.0) TVD(6945.96)

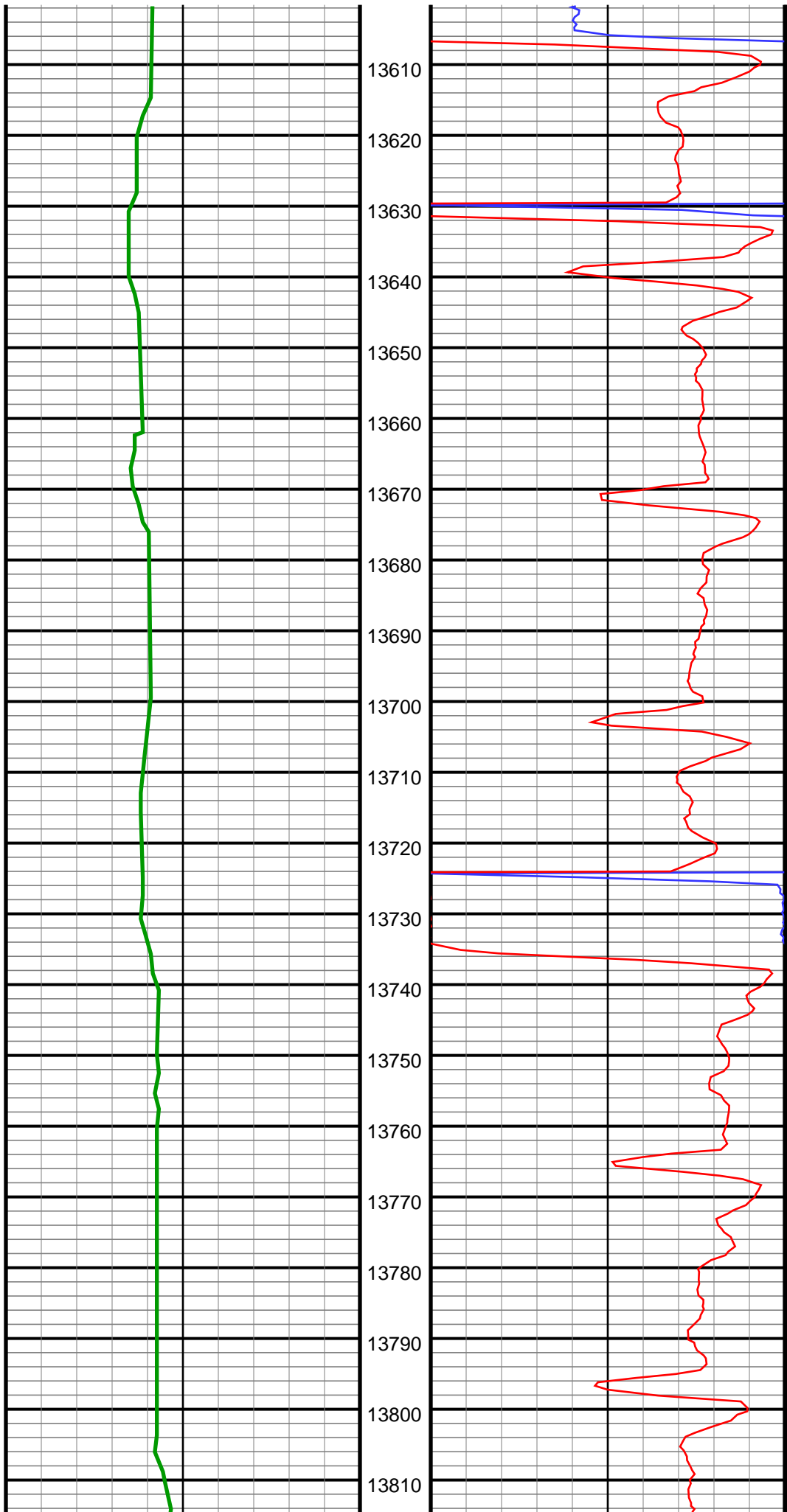




#139 MD(13389.00) Inc(90.1) Azm(180.8) TVD(6945.87)

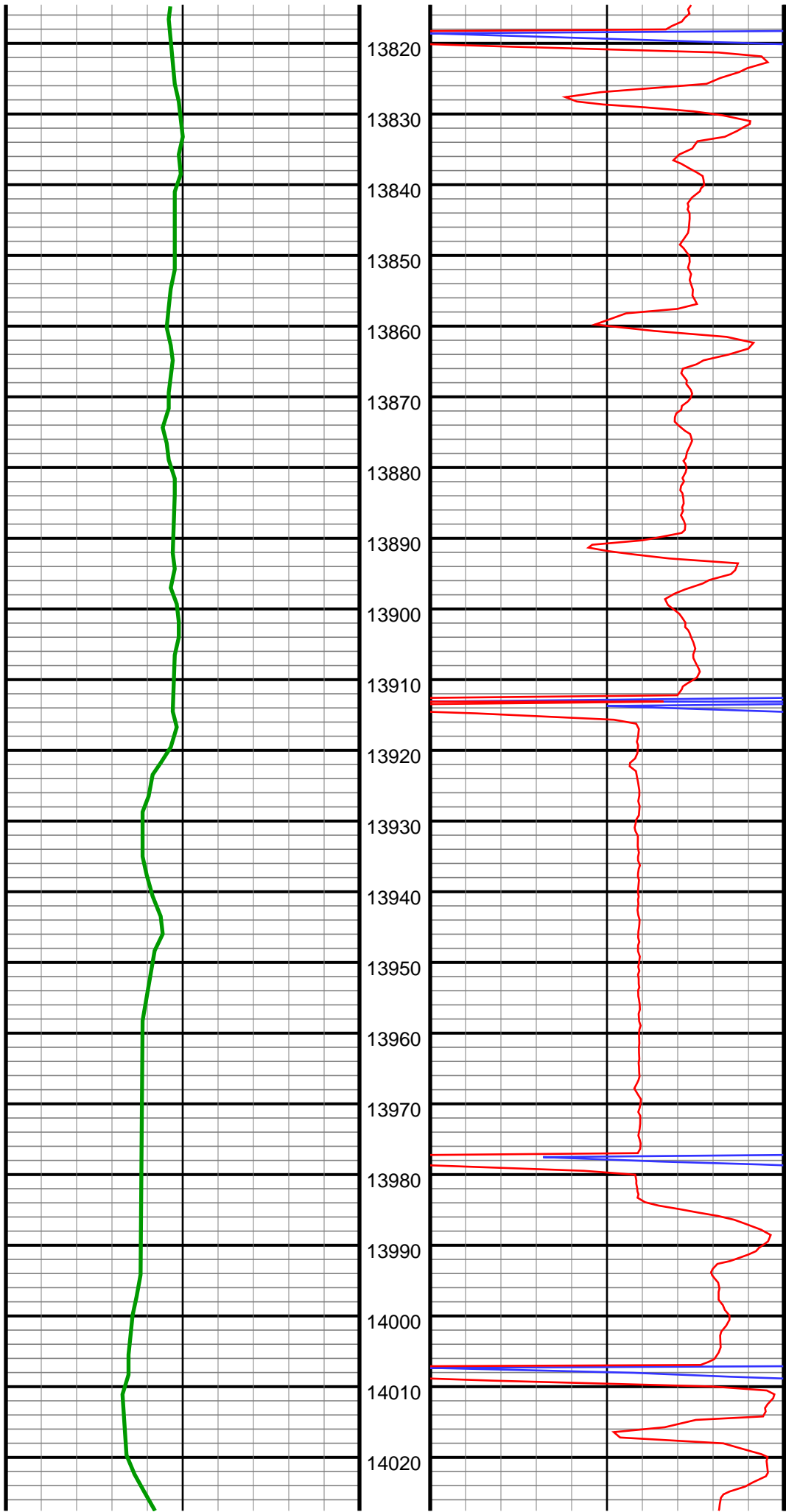
#140 MD(13483.00) Inc(90.2) Azm(180.3) TVD(6945.63)

#141 MD(13578.00) Inc(90.3) Azm(180.8) TVD(6945.21)



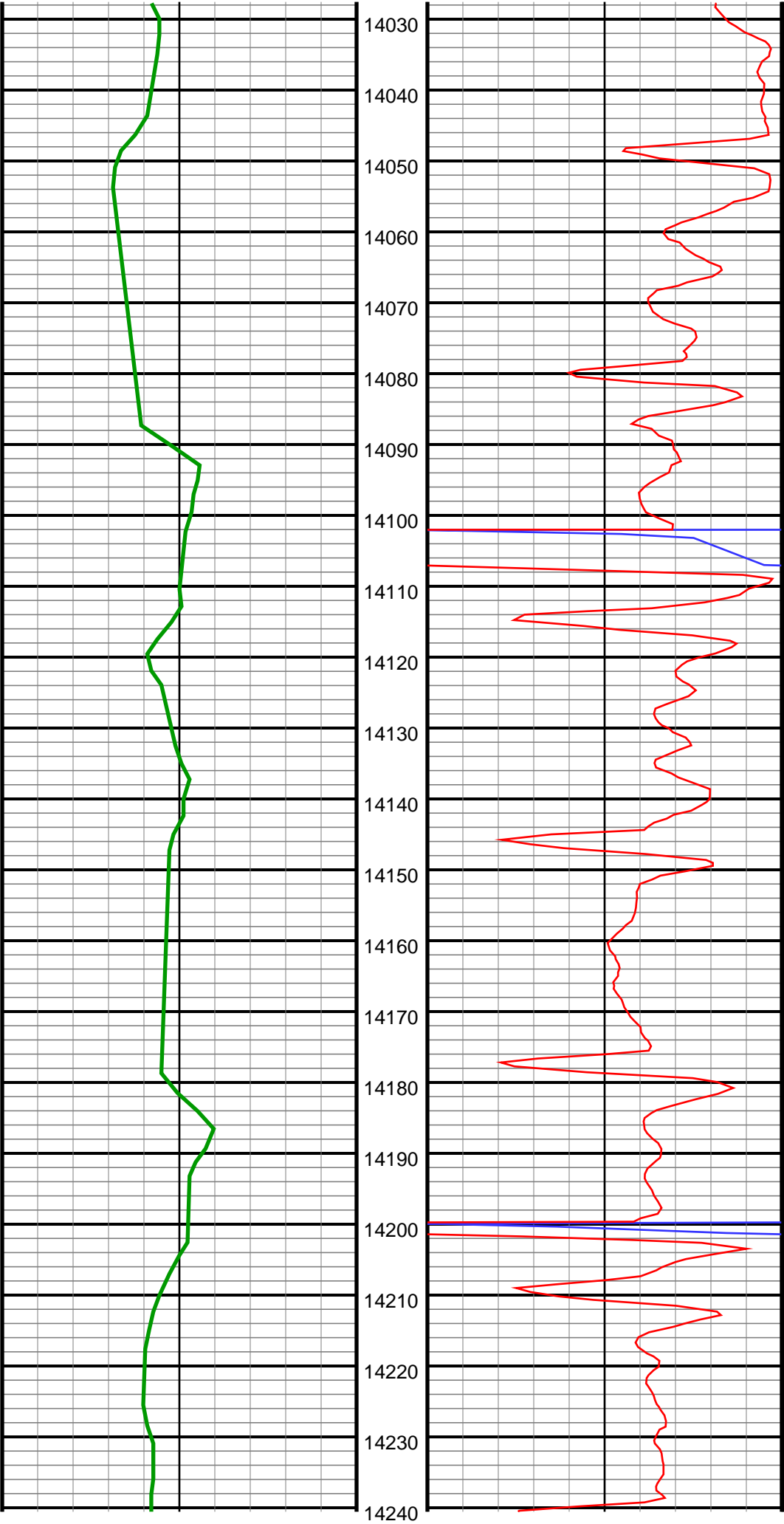
#142 MD(13672.00) Inc(89.3) Azm(181.2) TVD(6945.54)

#143 MD(13768.00) Inc(89.1) Azm(180.2) TVD(6946.88)



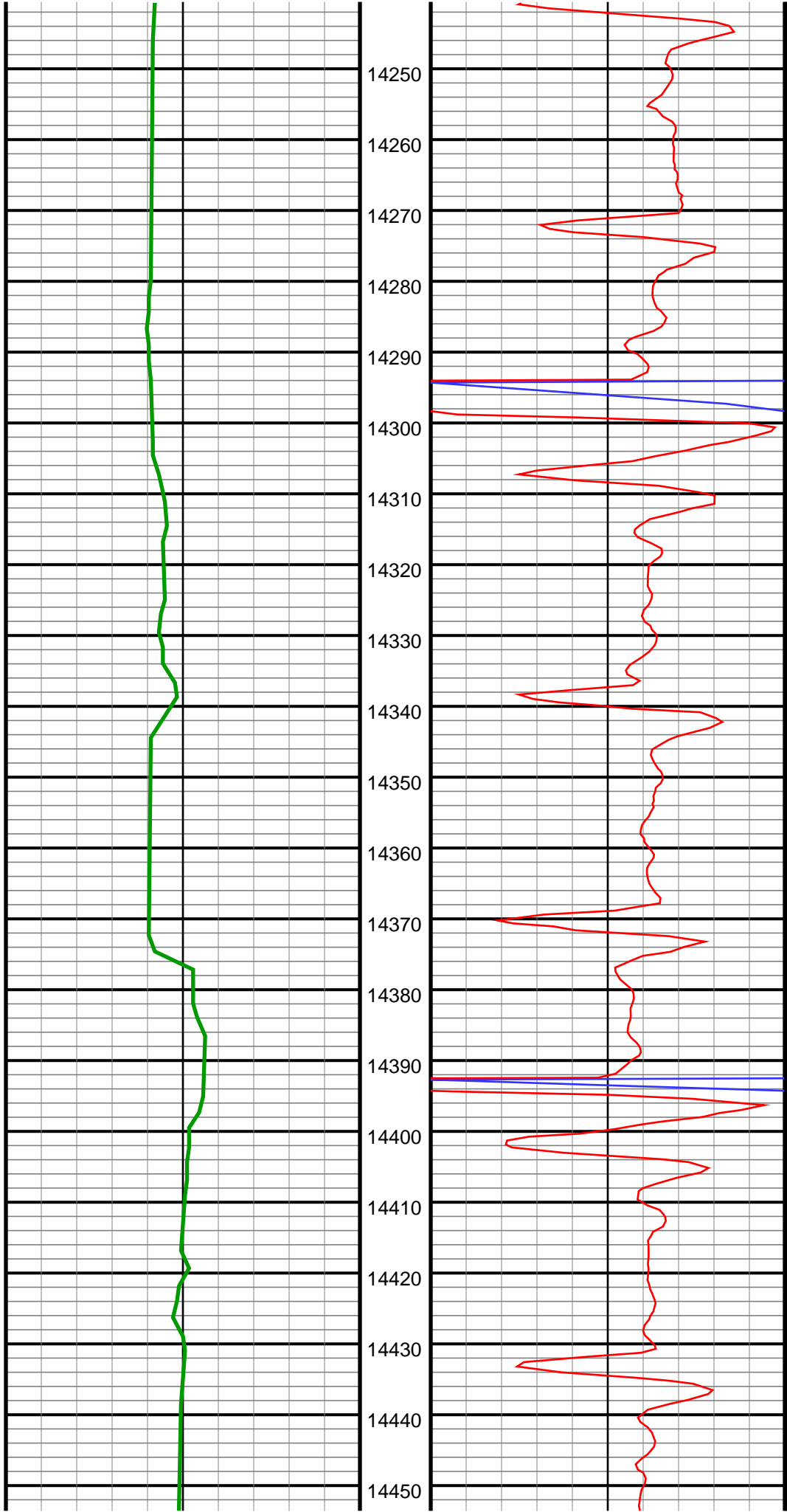
#144 MD(13863.00) Inc(89.0) Azm(179.8) TVD(6948.46)

#145 MD(13958.00) Inc(89.3) Azm(178.6) TVD(6949.87)



#146 MD(14053.00) Inc(90.5) Azm(178.1) TVD(6950.03)

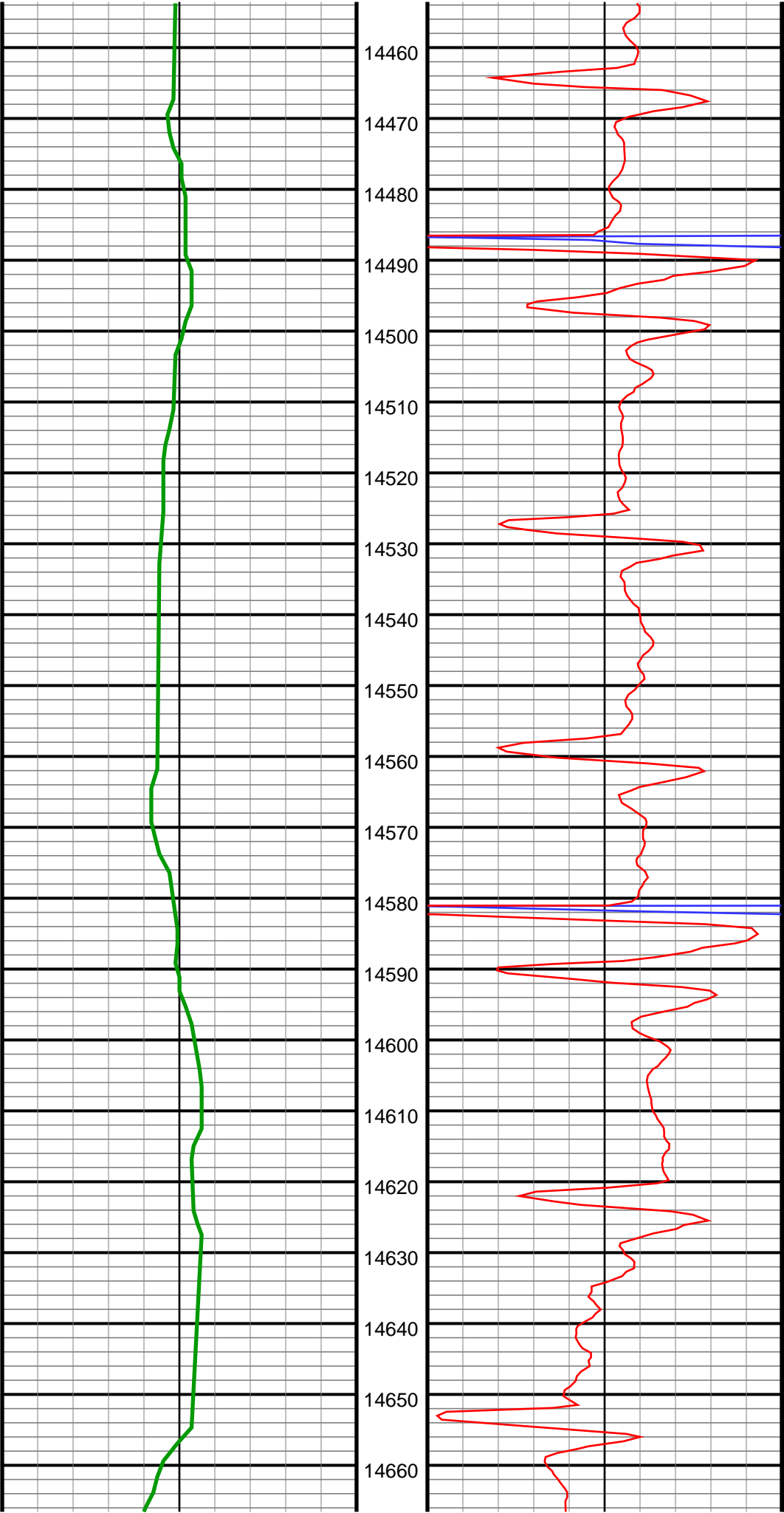
#147 MD(14148.00) Inc(90.5) Azm(179.4) TVD(6949.20)



#148 MD(14243.00) Inc(90.1) Azm(179.5) TVD(6948.71)

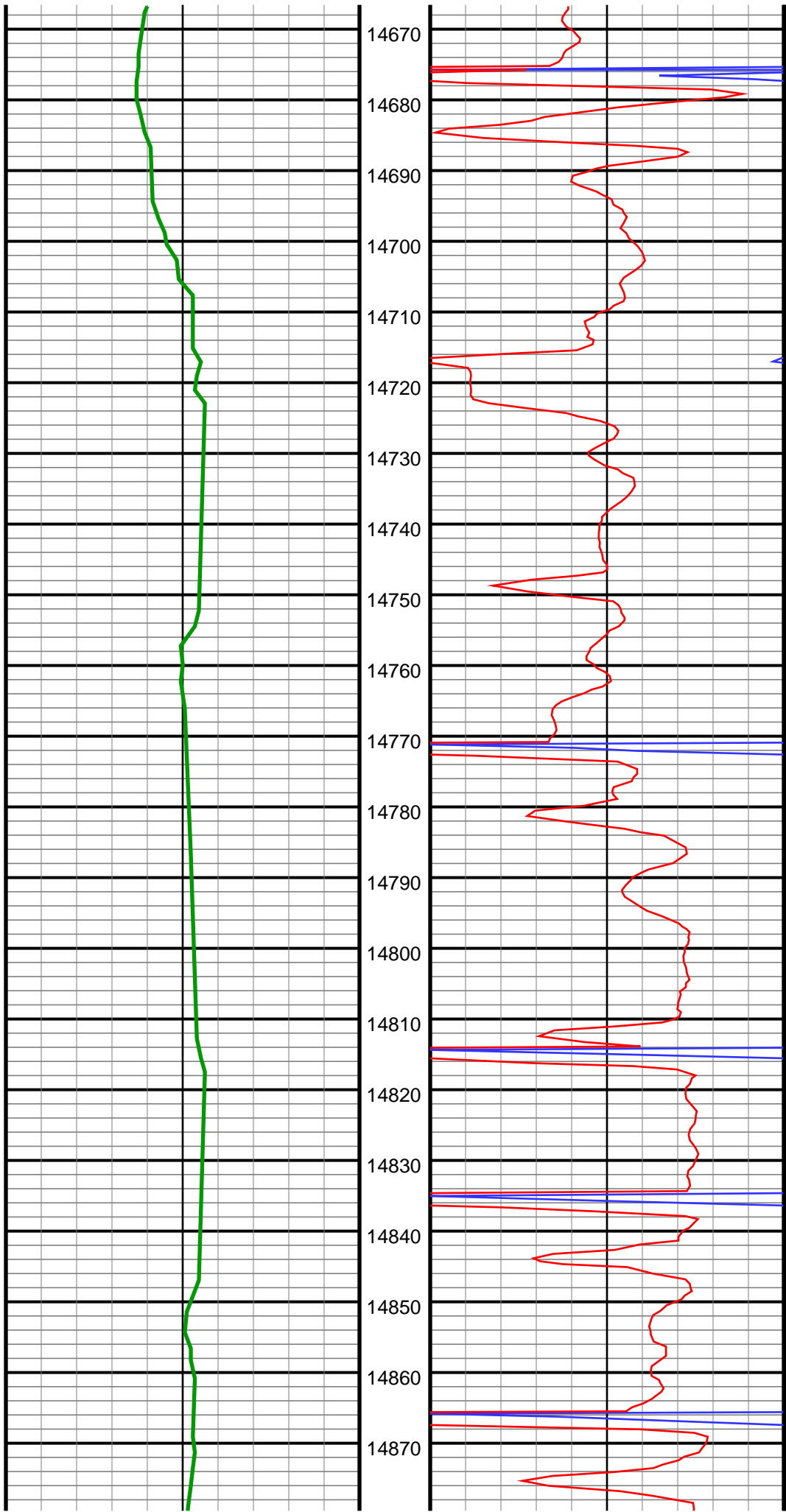
#149 MD(14337.00) Inc(90.3) Azm(178.8) TVD(6948.38)

#150 MD(14432.00) Inc(90.6) Azm(179.7) TVD(6947.63)



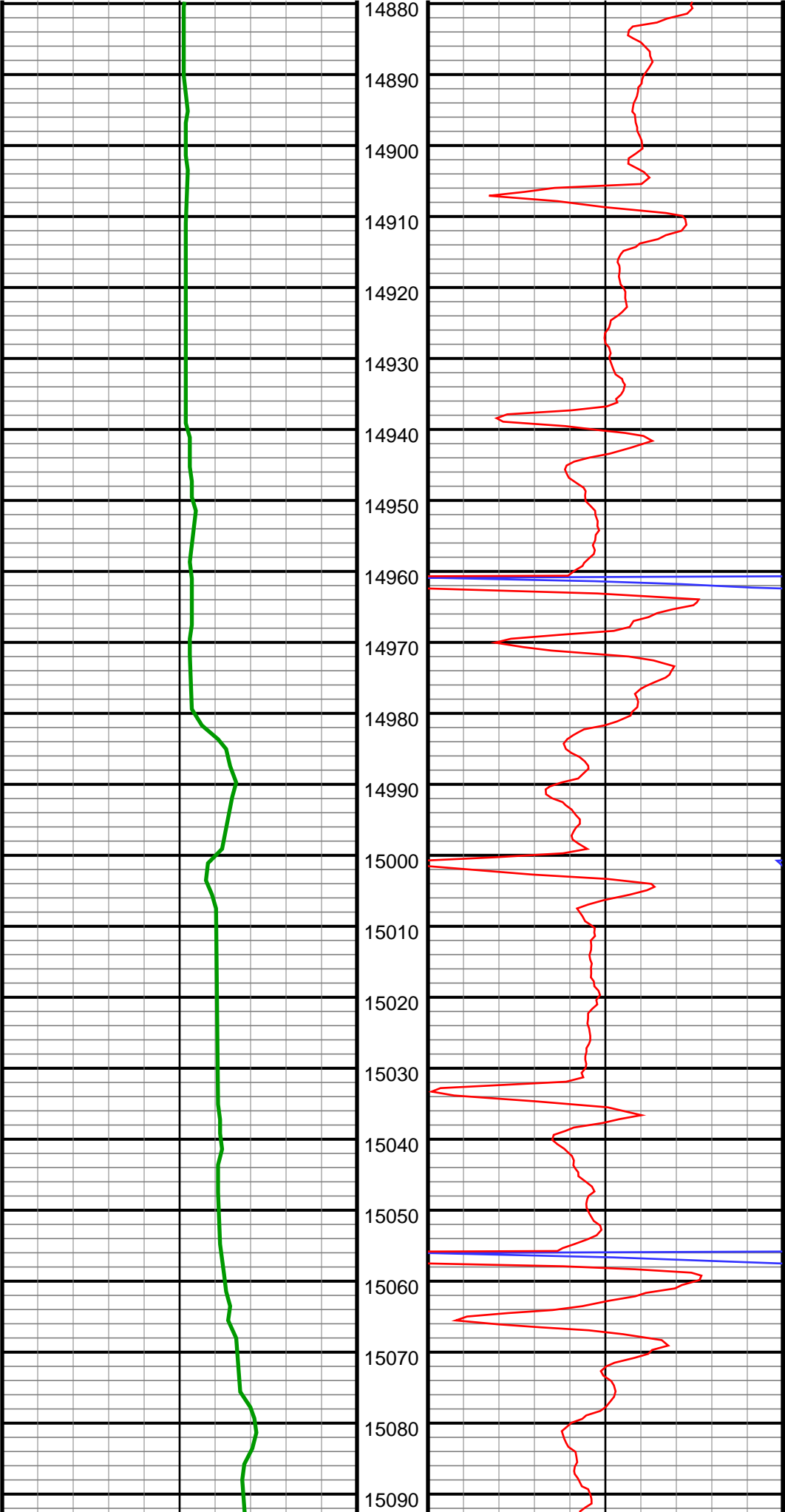
#151 MD(14527.00) Inc(89.9) Azm(179.3) TVD(6947.22)

#152 MD(14622.00) Inc(90.3) Azm(179.7) TVD(6947.05)



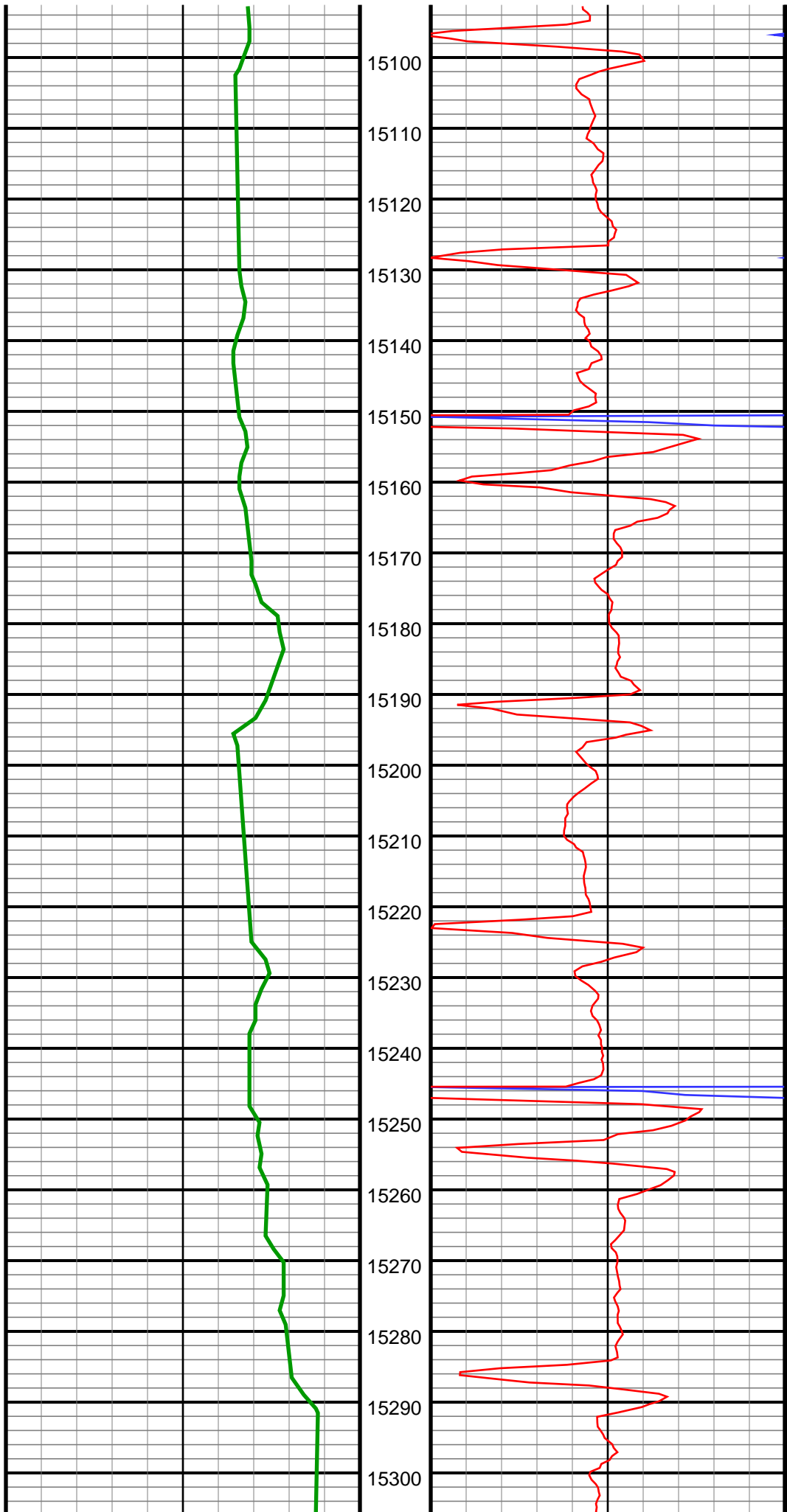
#153 MD(14717.00) Inc(90.0) Azm(179.0) TVD(6946.80)

#154 MD(14813.00) Inc(90.3) Azm(180.0) TVD(6946.55)



#155 MD(14908.00) Inc(90.3) Azm(180.0) TVD(6946.05)

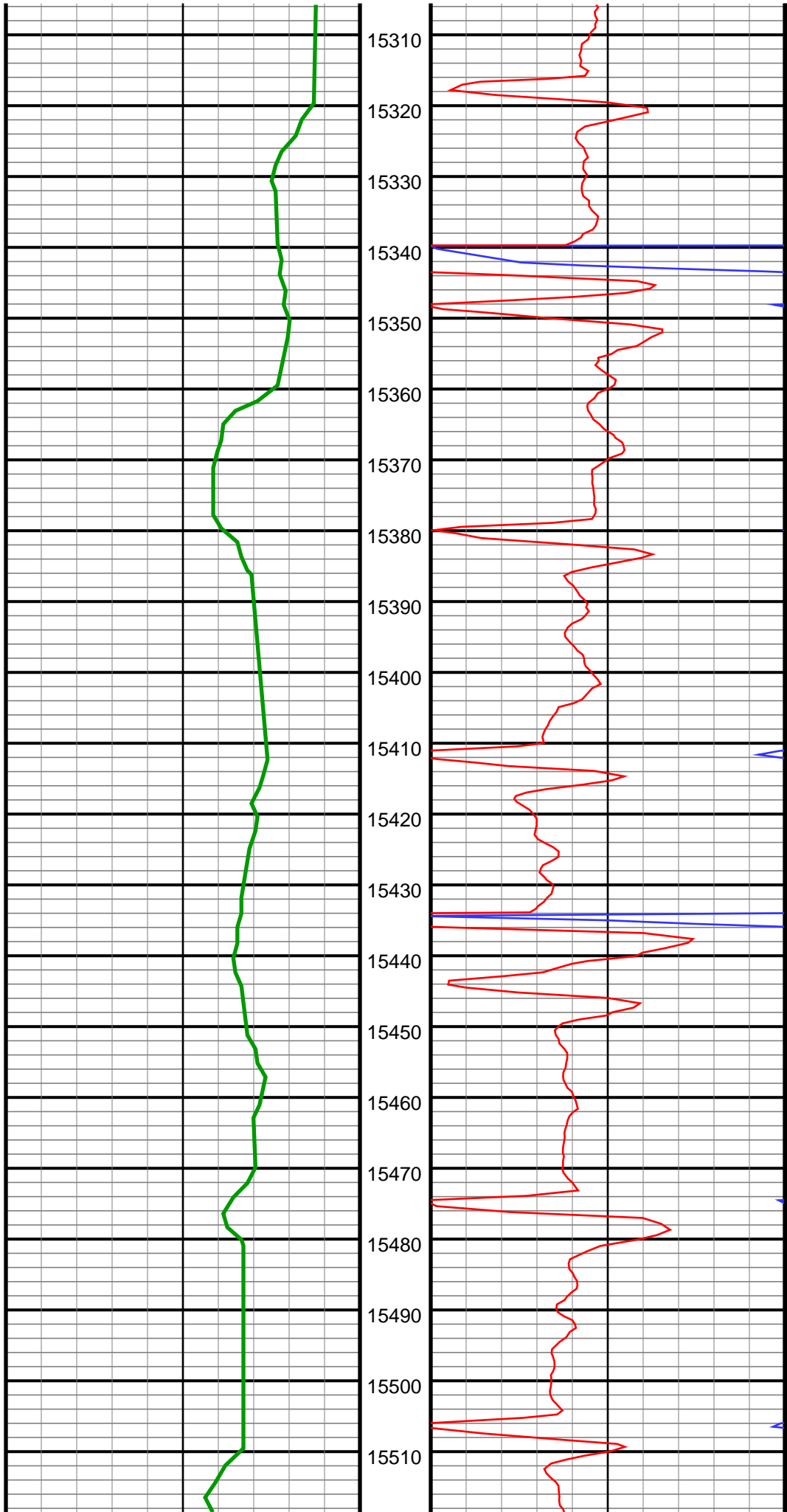
#156 MD(15003.00) Inc(90.2) Azm(179.6) TVD(6945.64)



#157 MD(15098.00) Inc(90.2) Azm(179.6) TVD(6945.31)

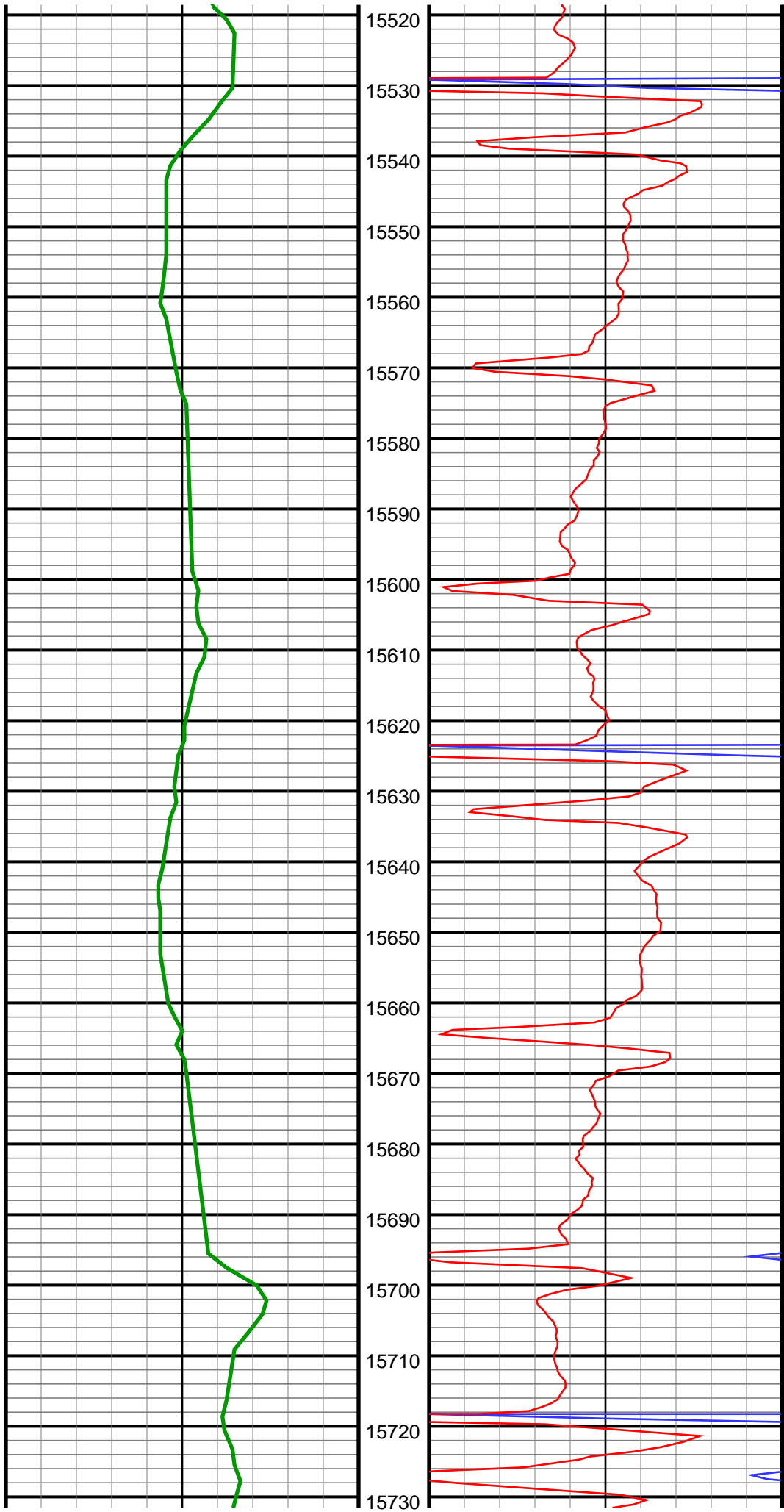
#158 MD(15193.00) Inc(90.2) Azm(179.9) TVD(6944.98)

#159 MD(15287.00) Inc(90.4) Azm(180.1) TVD(6944.48)



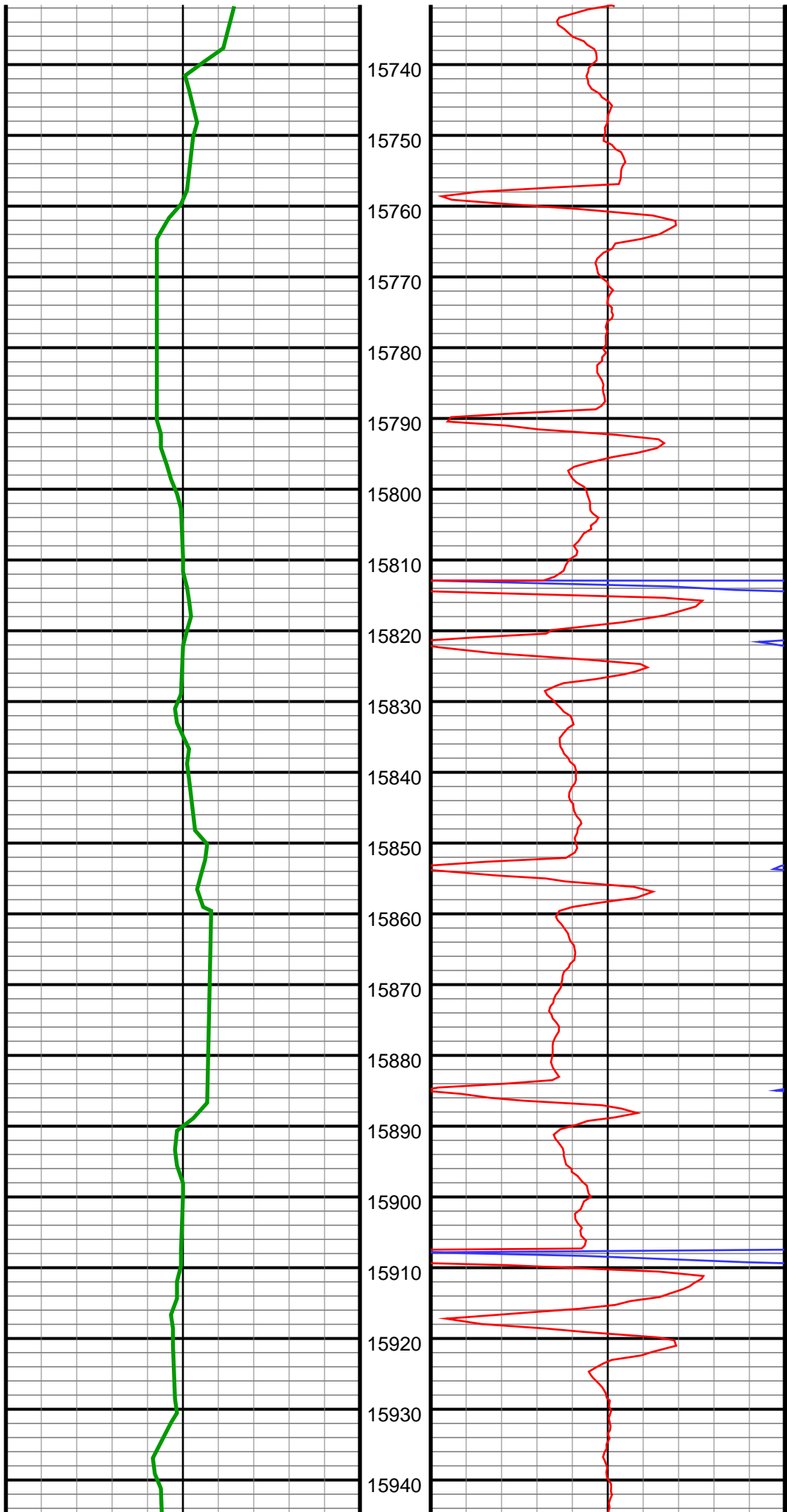
#160 MD(15382.00) Inc(90.2) Azm(179.8) TVD(6943.99)

#161 MD(15477.00) Inc(90.0) Azm(179.3) TVD(6943.82)



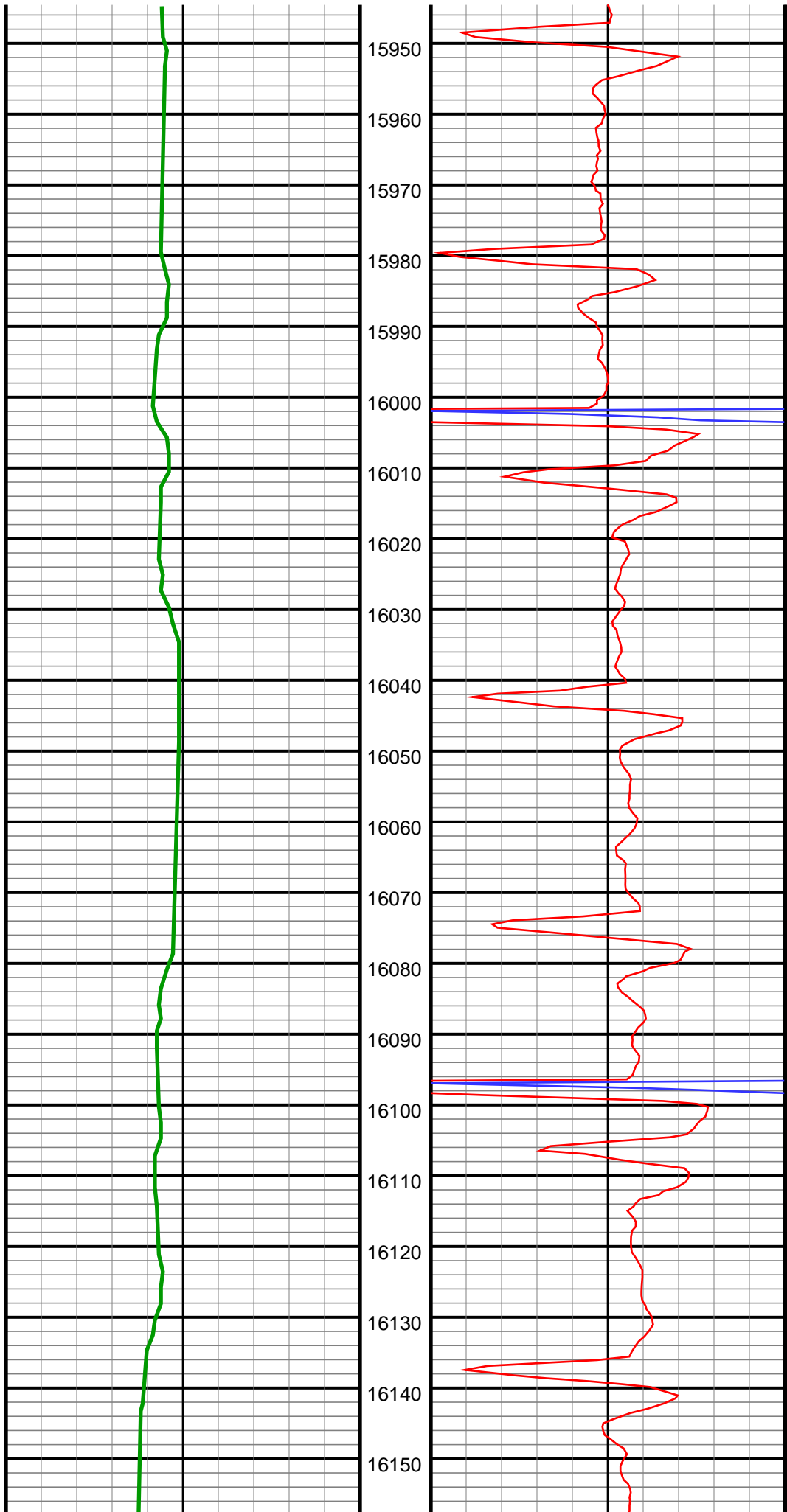
#162 MD(15572.00) Inc(90.2) Azm(179.1) TVD(6943.65)

#163 MD(15666.00) Inc(90.2) Azm(178.3) TVD(6943.33)



#164 MD(15760.00) Inc(89.9) Azm(178.2) TVD(6943.24)

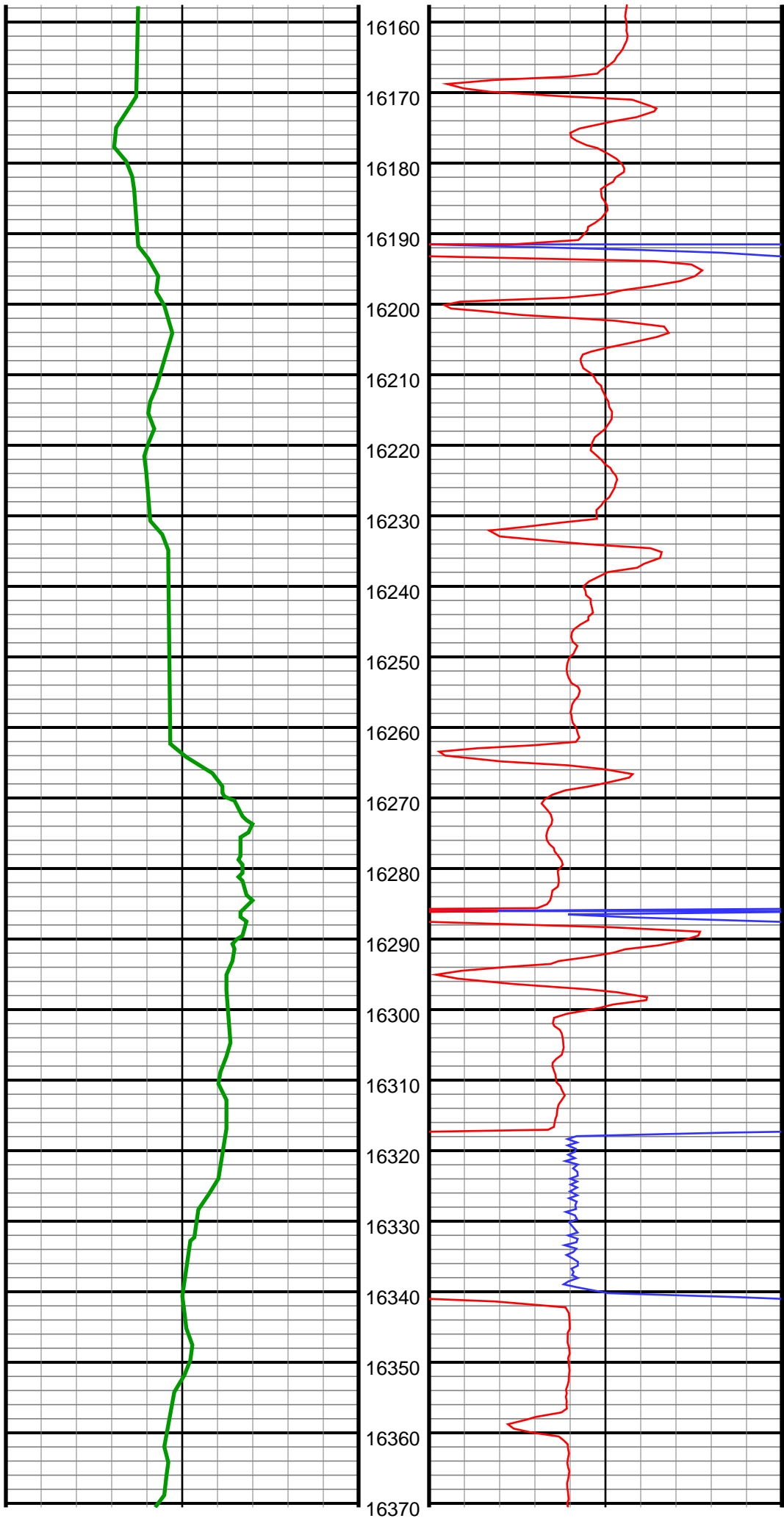
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#166 MD(15950.00) Inc(90.2) Azm(178.0) TVD(6942.50)

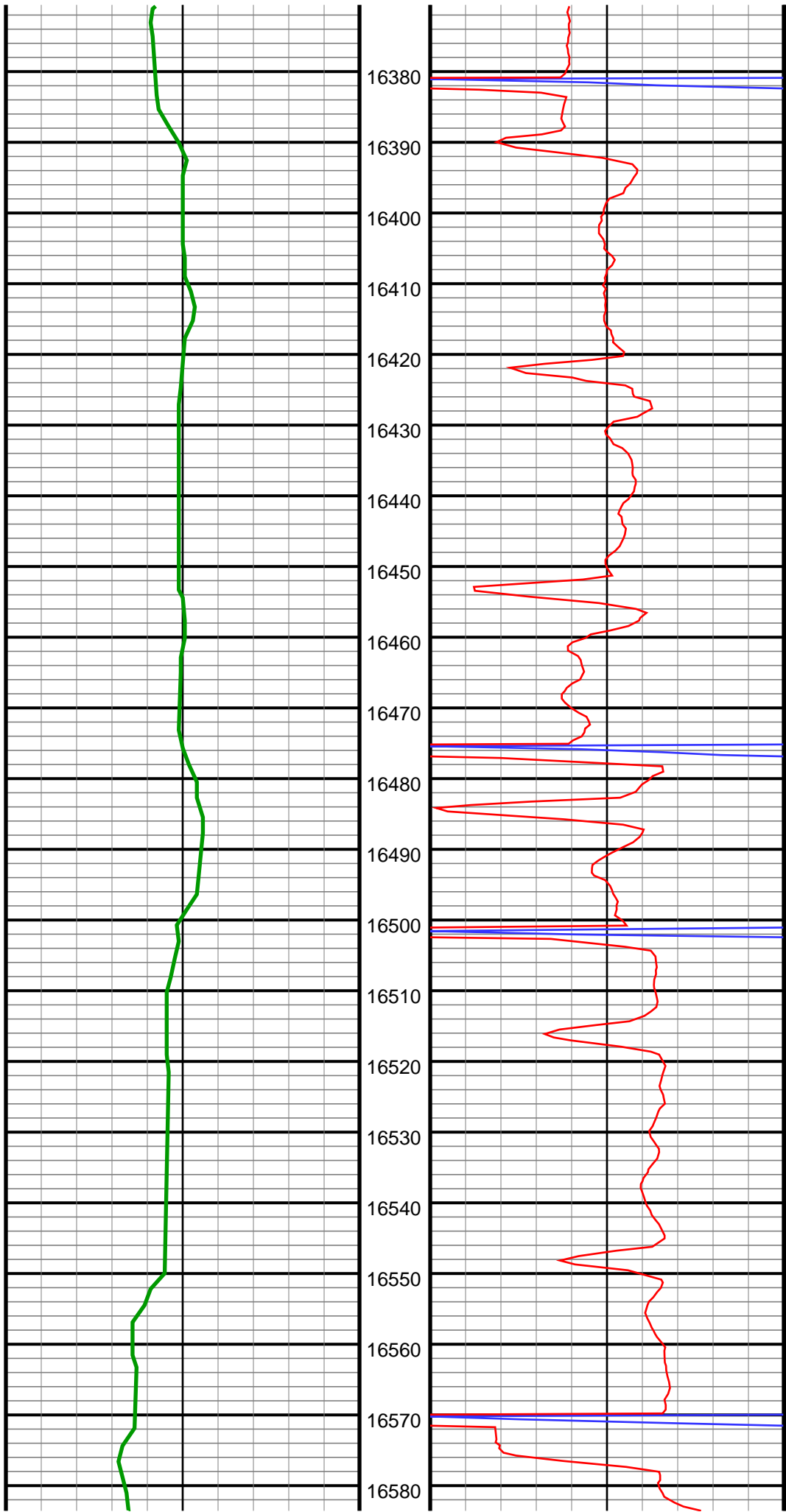
#167 MD(16044.00) Inc(90.3) Azm(178.6) TVD(6942.09)

#168 MD(16139.00) Inc(90.3) Azm(178.1) TVD(6941.59)



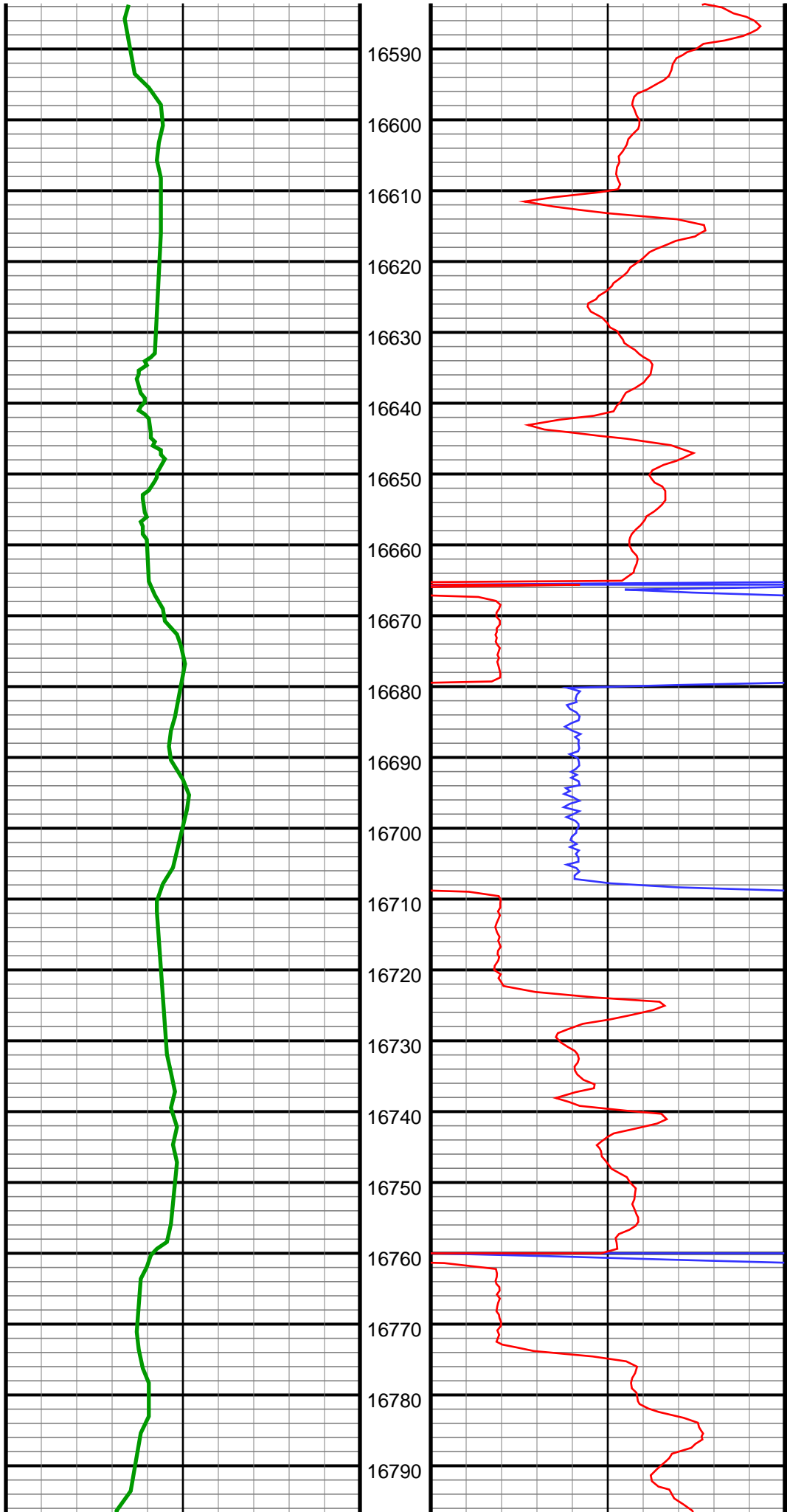
#169 MD(16234.00) Inc(90.2) Azm(177.9) TVD(6941.18)

#170 MD(16328.00) Inc(90.3) Azm(179.0) TVD(6940.77)



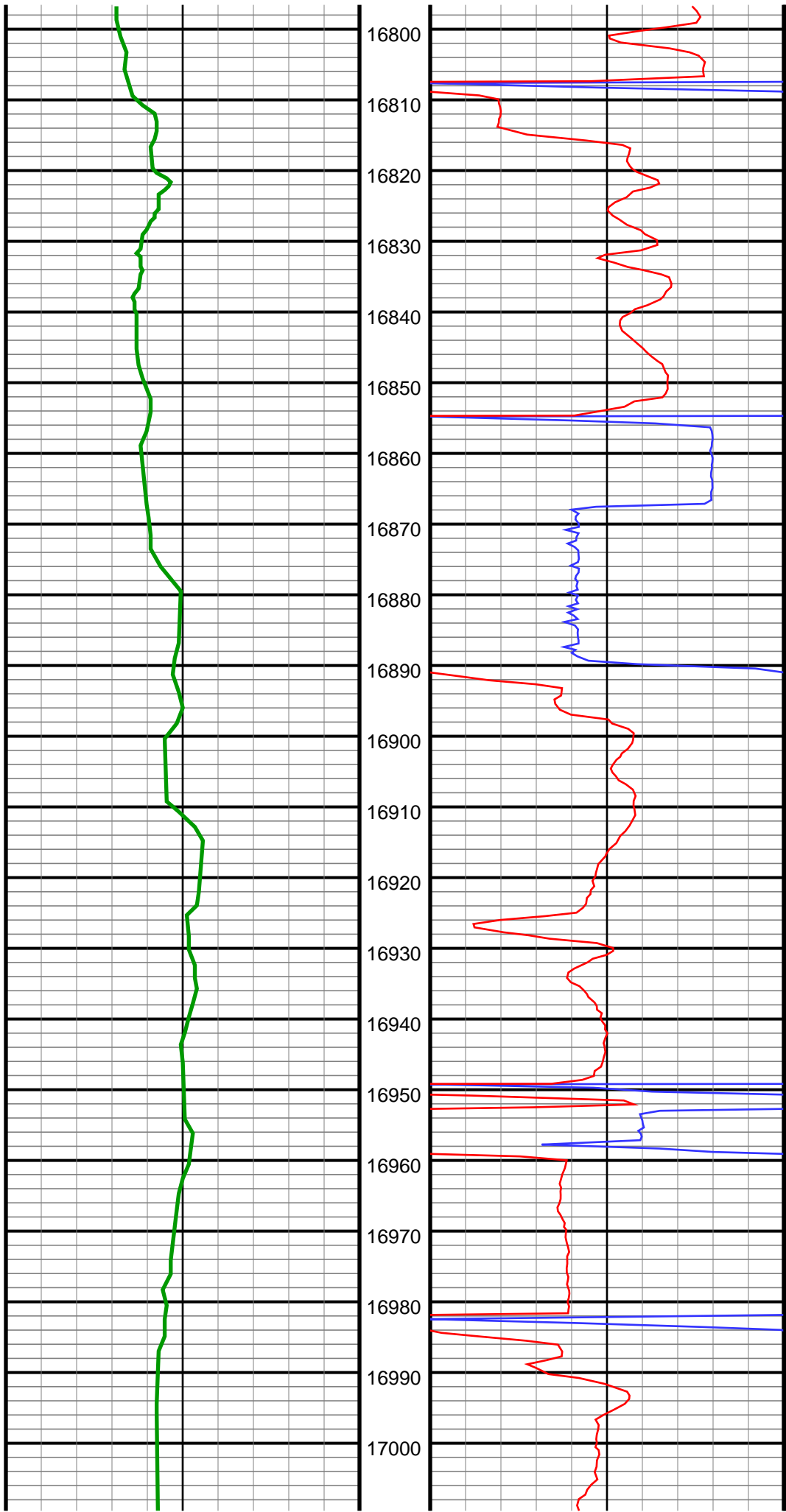
#171 MD(16424.00) Inc(90.4) Azm(181.6) TVD(6940.18)

#172 MD(16518.00) Inc(90.5) Azm(183.4) TVD(6939.44)



#173 MD(16613.00) Inc(90.2) Azm(183.8) TVD(6938.86)

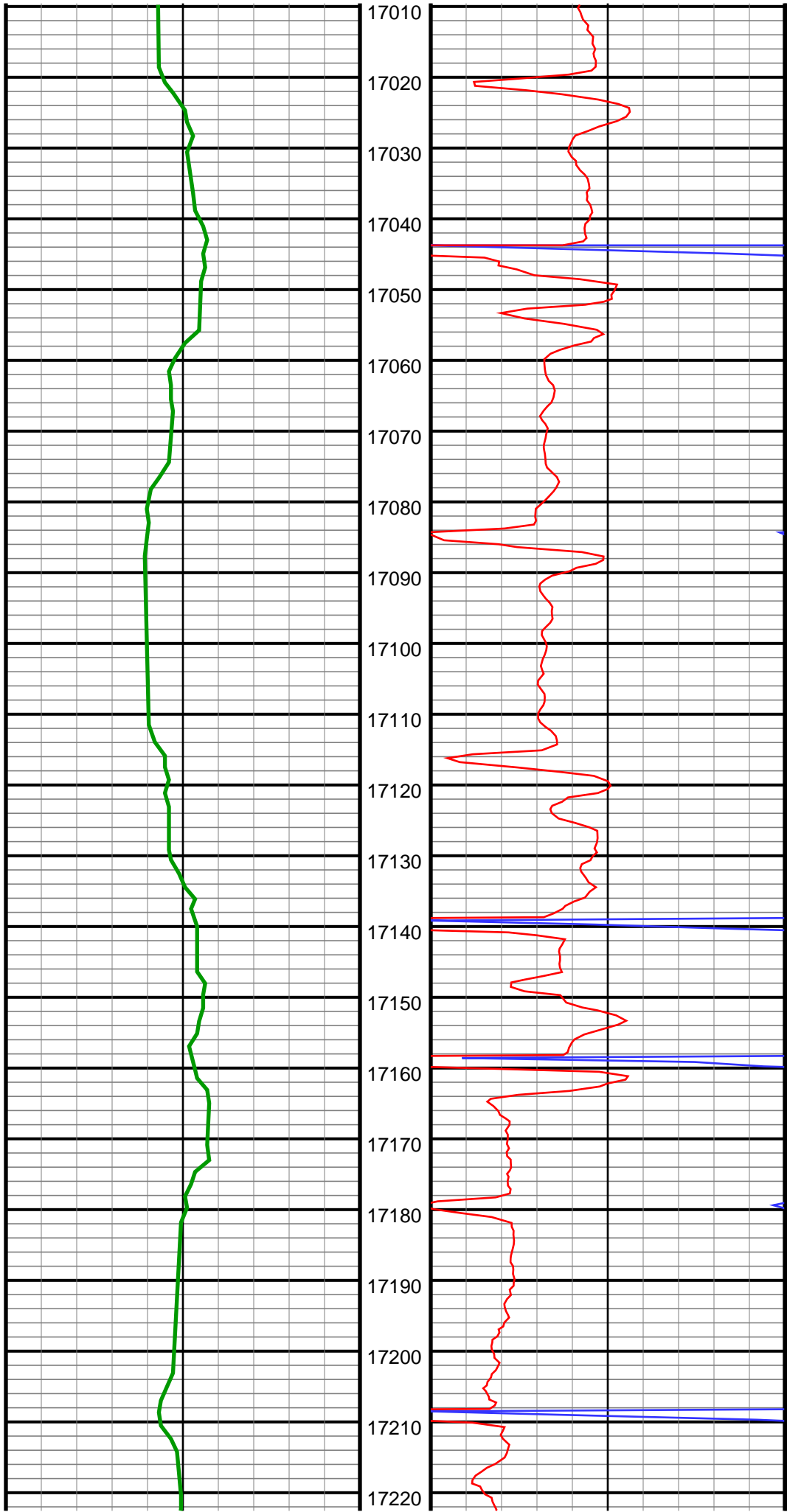
#174 MD(16708.00) Inc(90.1) Azm(184.7) TVD(6938.61)



#175 MD(16802.00) Inc(89.2) Azm(183.7) TVD(6939.19)

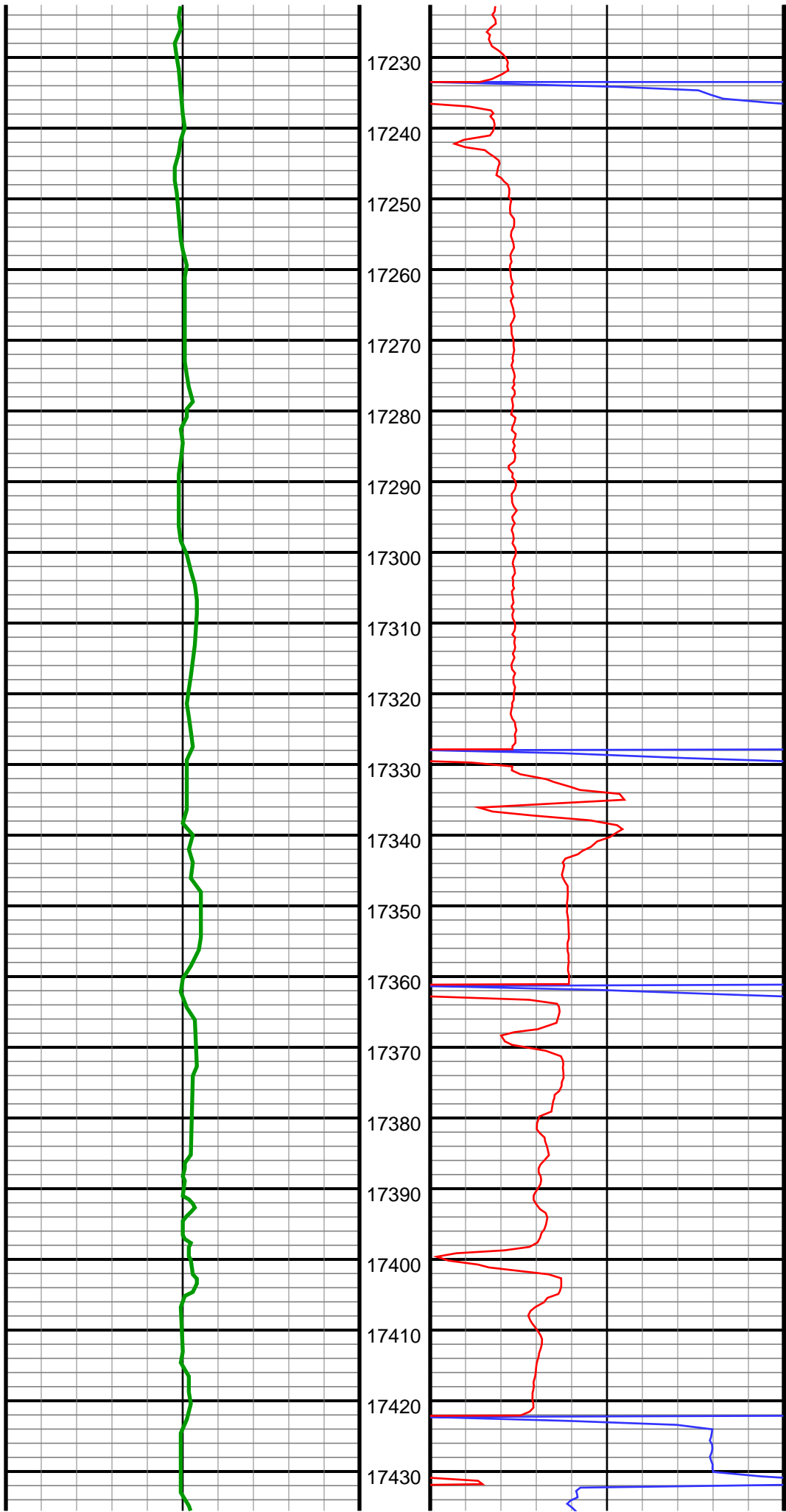
#176 MD(16897.00) Inc(88.2) Azm(181.5) TVD(6941.34)

#177 MD(16991.00) Inc(88.7) Azm(179.9) TVD(6943.89)



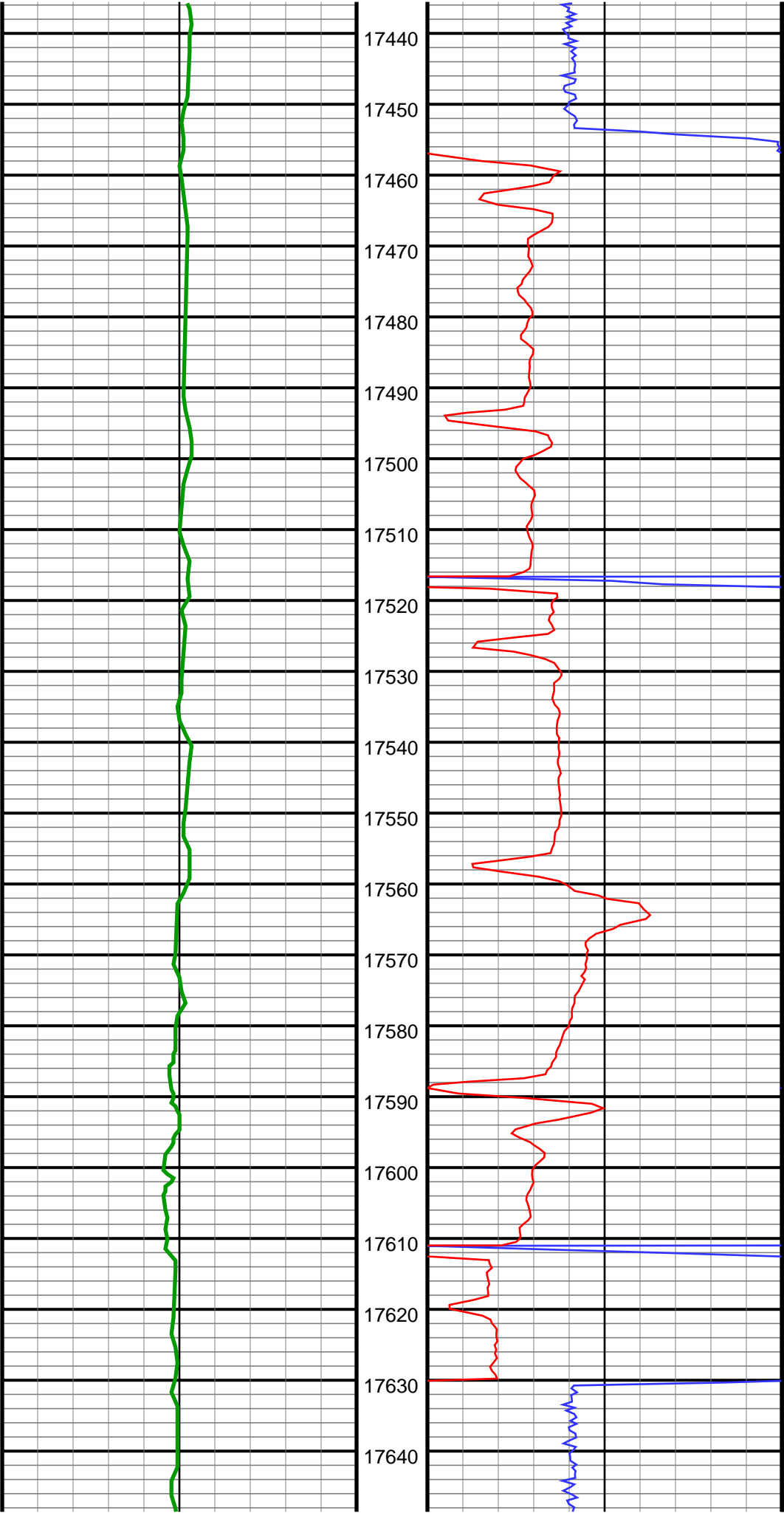
#178 MD(17086.00) Inc(88.9) Azm(178.3) TVD(6945.87)

#179 MD(17181.00) Inc(89.3) Azm(176.6) TVD(6947.37)



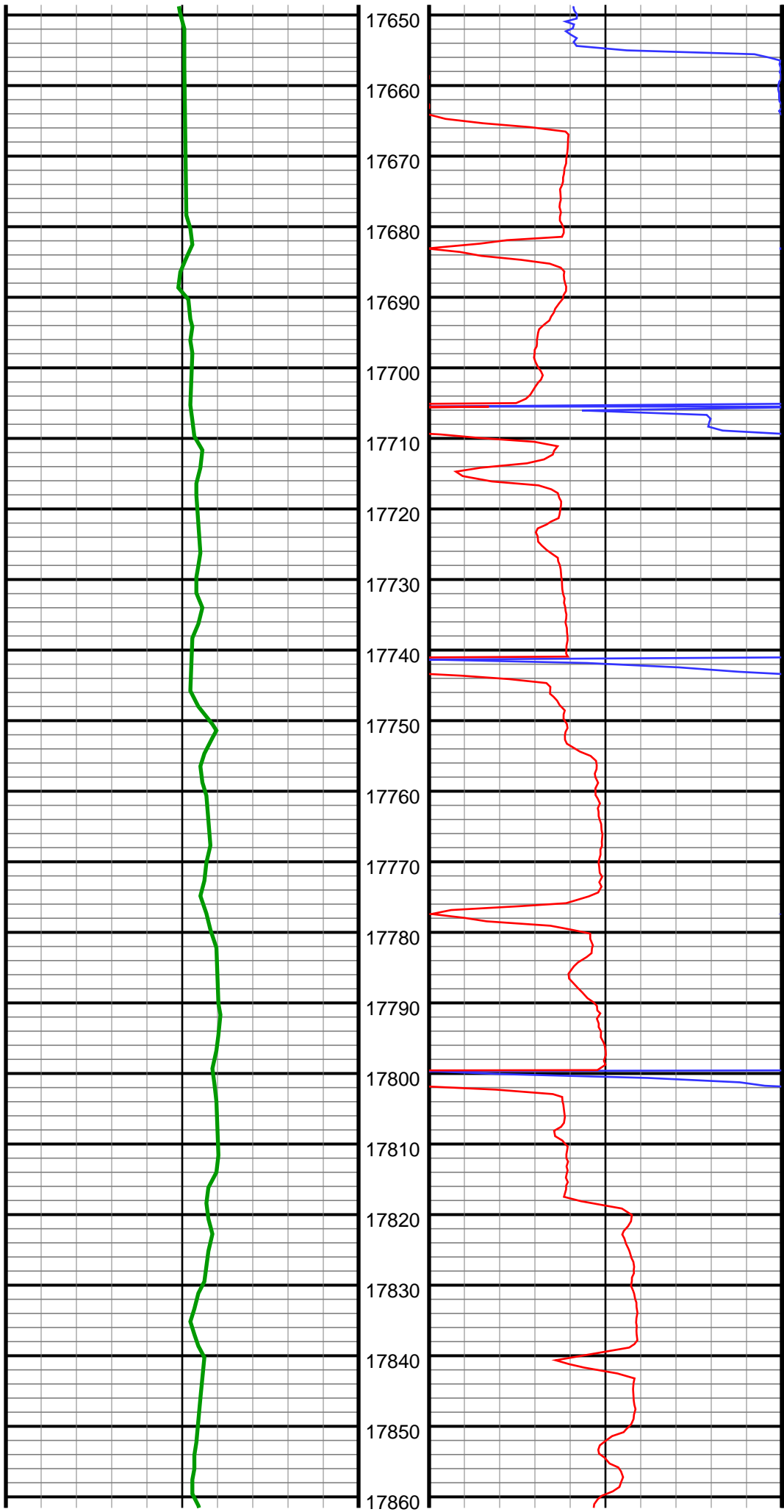
#180 MD(17276.00) Inc(90.4) Azm(176.5) TVD(6947.62)

#181 MD(17371.00) Inc(90.6) Azm(178.1) TVD(6946.79)



#182 MD(17466.00) Inc(90.3) Azm(180.5) TVD(6946.04)

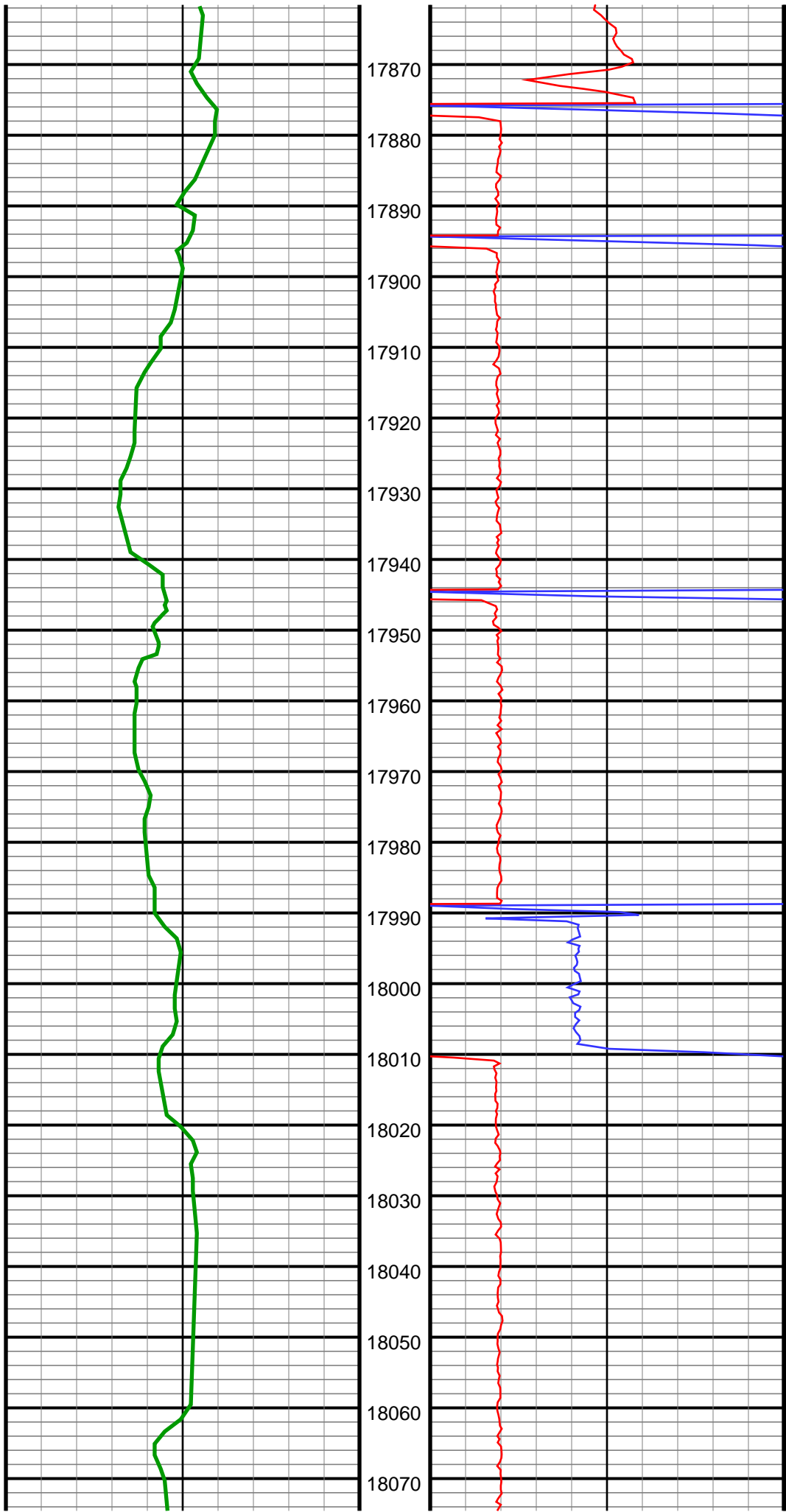
#183 MD(17561.00) Inc(90.3) Azm(182.3) TVD(6945.54)



#184 MD(17655.00) Inc(90.2) Azm(183.4) TVD(6945.13)

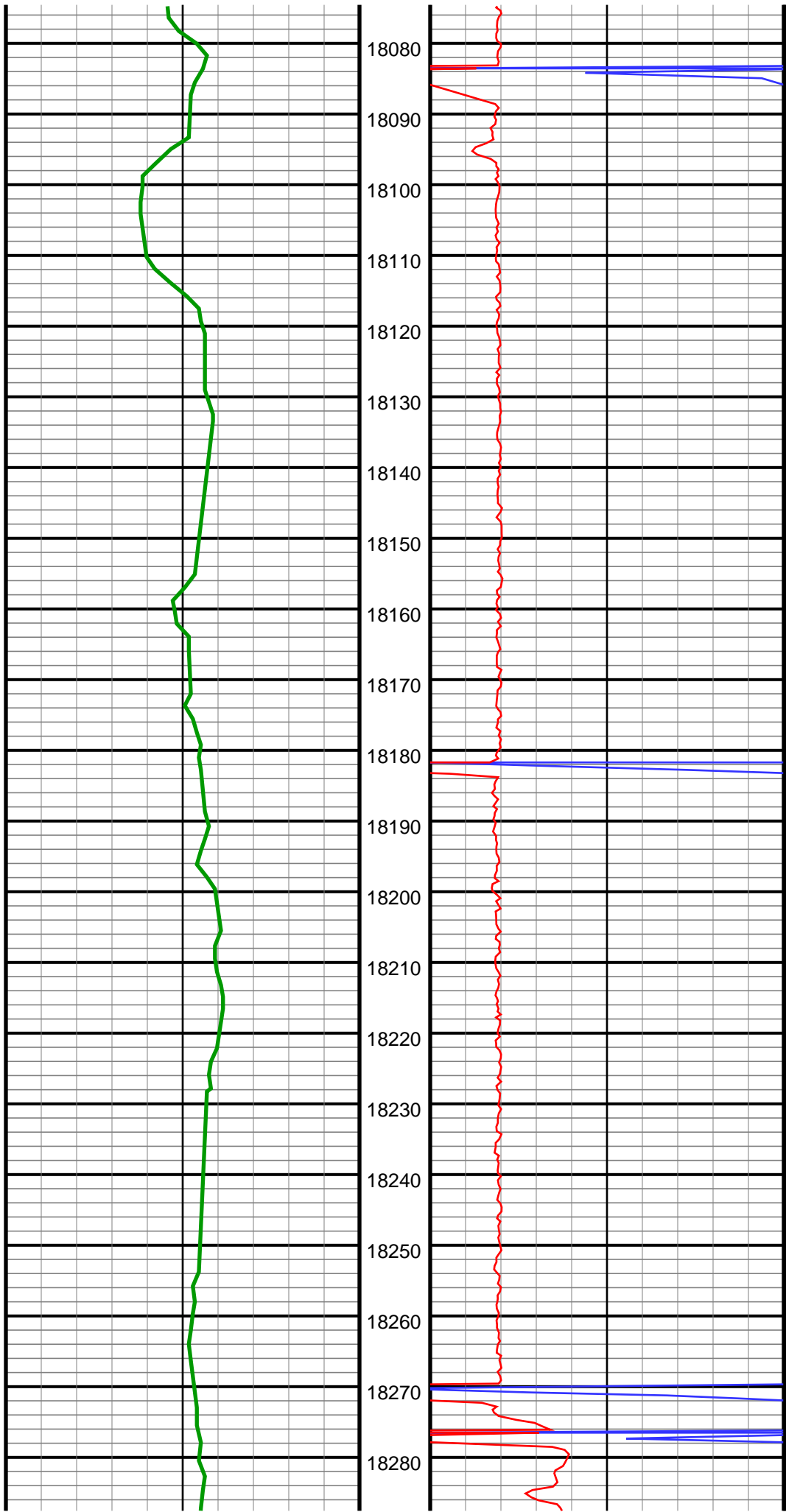
#185 MD(17751.00) Inc(90.4) Azm(185.3) TVD(6944.63)

#186 MD(17845.00) Inc(89.5) Azm(185.9) TVD(6944.71)



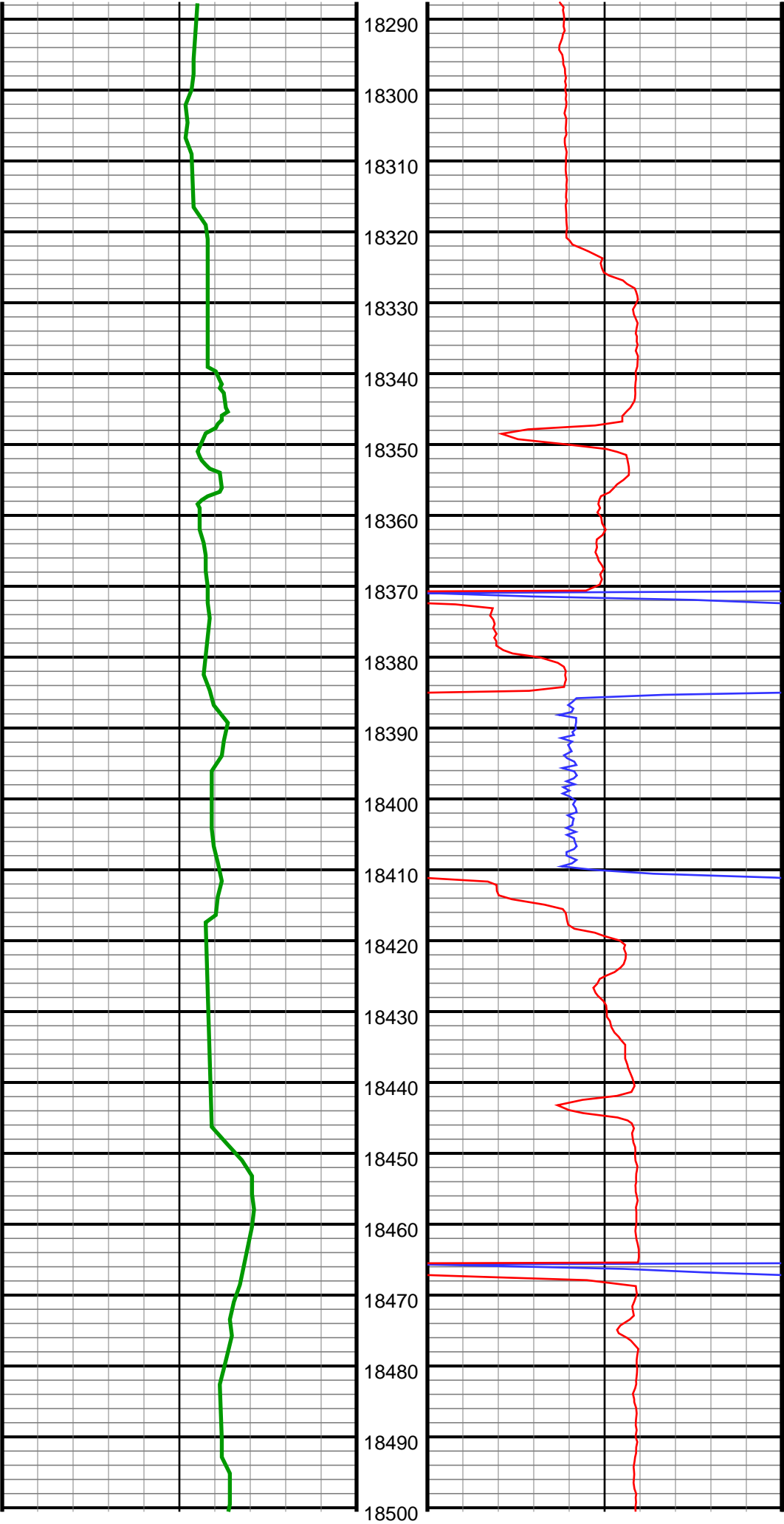
#187 MD(17939.00) Inc(87.5) Azm(184.3) TVD(6947.17)

#188 MD(18034.00) Inc(88.4) Azm(182.2) TVD(6950.57)



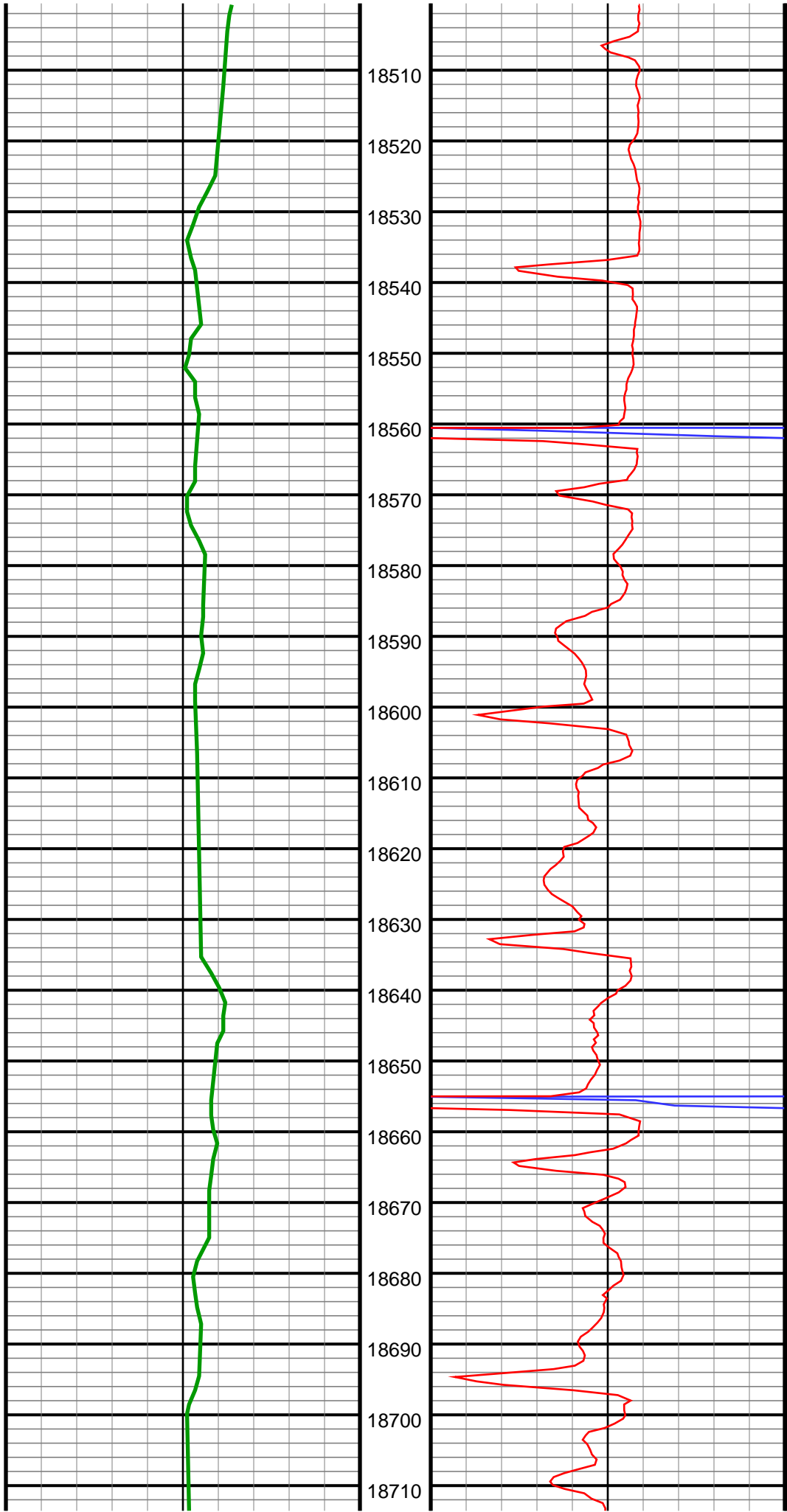
#189 MD(18129.00) Inc(89.6) Azm(180.8) TVD(6952.23)

#190 MD(18223.00) Inc(90.1) Azm(179.9) TVD(6952.48)



#191 MD(18318.00) Inc(90.6) Azm(180.7) TVD(6951.90)

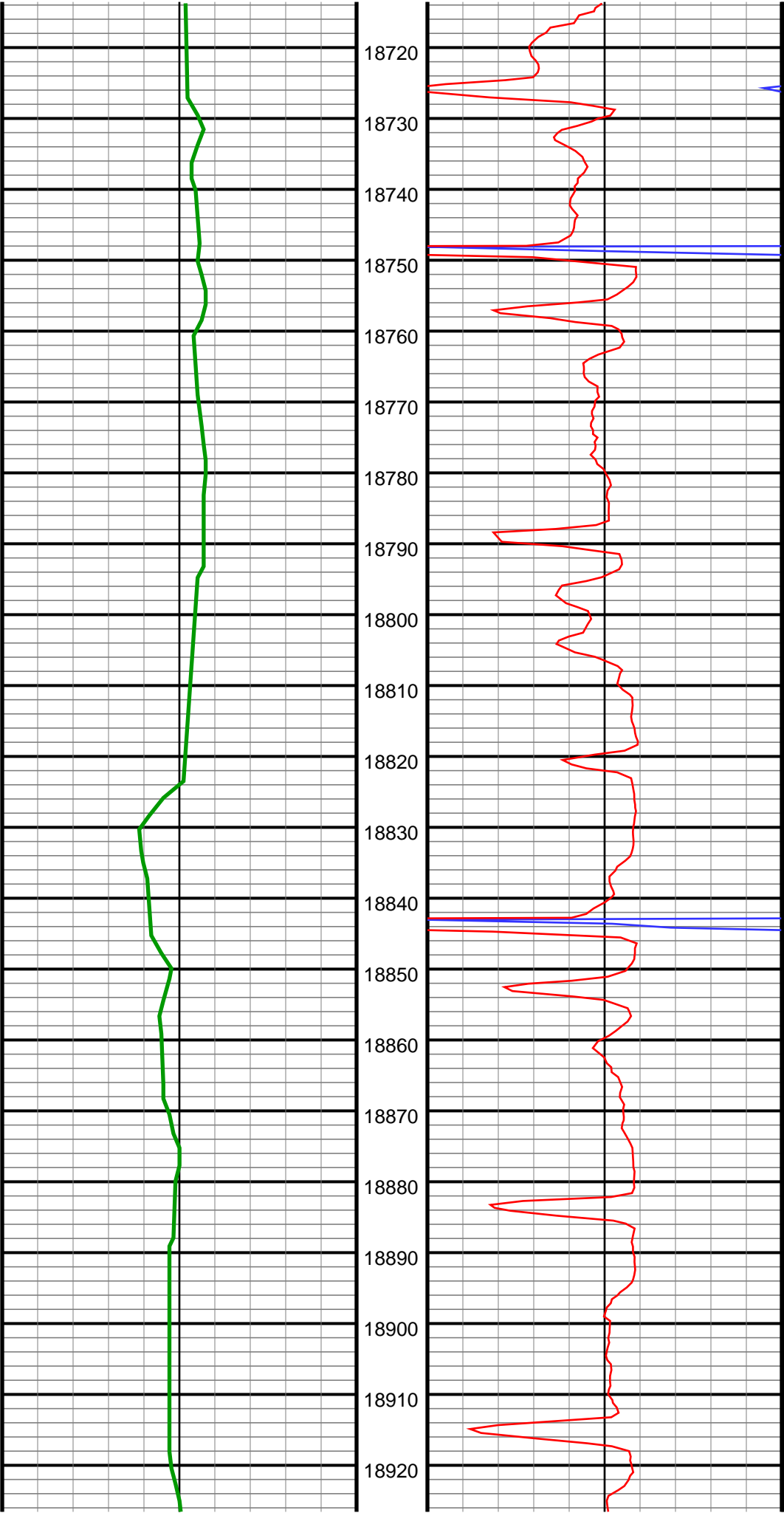
#192 MD(18413.00) Inc(90.0) Azm(181.4) TVD(6951.40)



#193 MD(18508.00) Inc(90.1) Azm(181.4) TVD(6951.31)

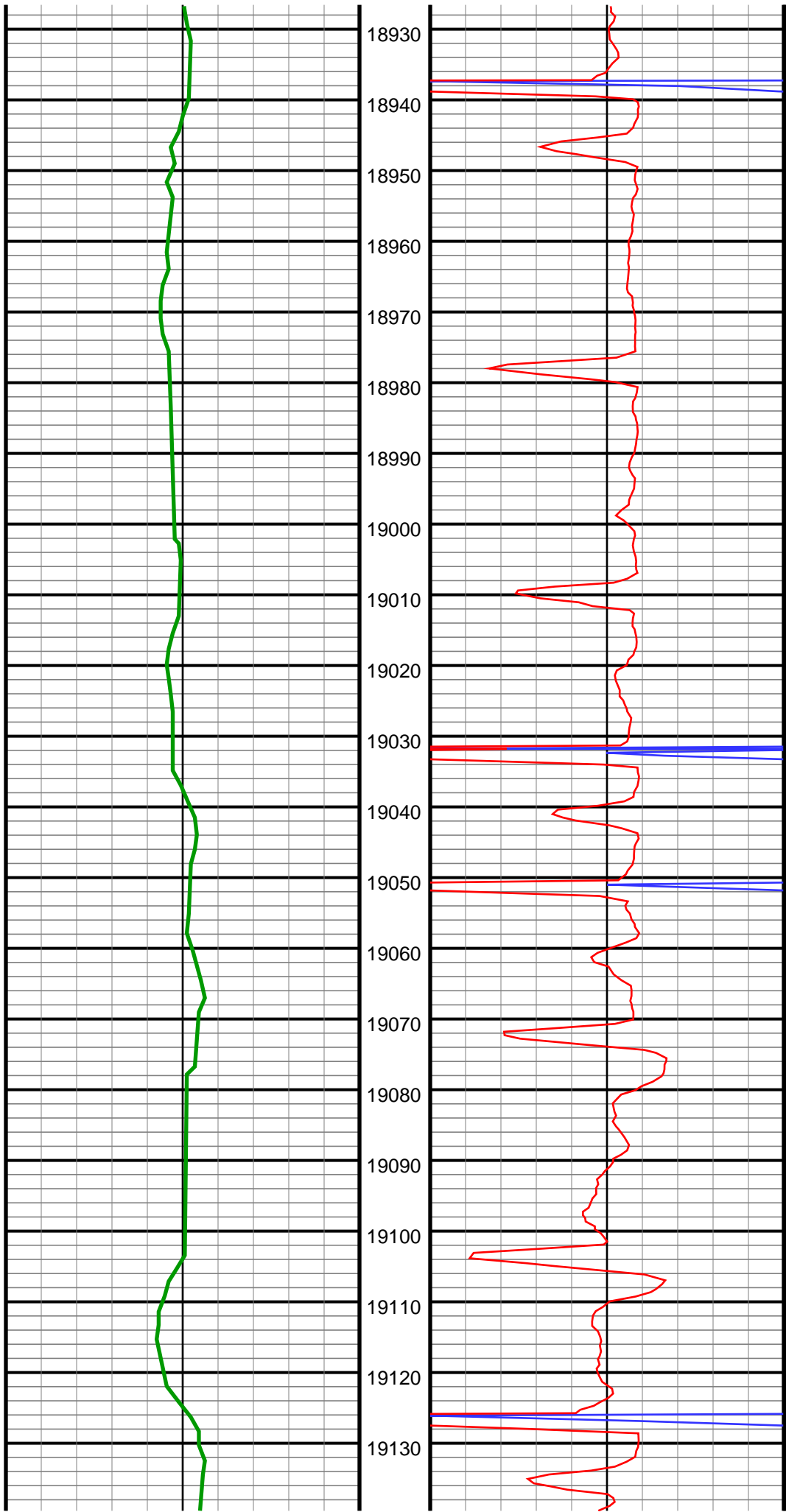
#194 MD(18602.00) Inc(90.1) Azm(180.8) TVD(6951.15)

#195 MD(18697.00) Inc(90.1) Azm(180.6) TVD(6950.99)



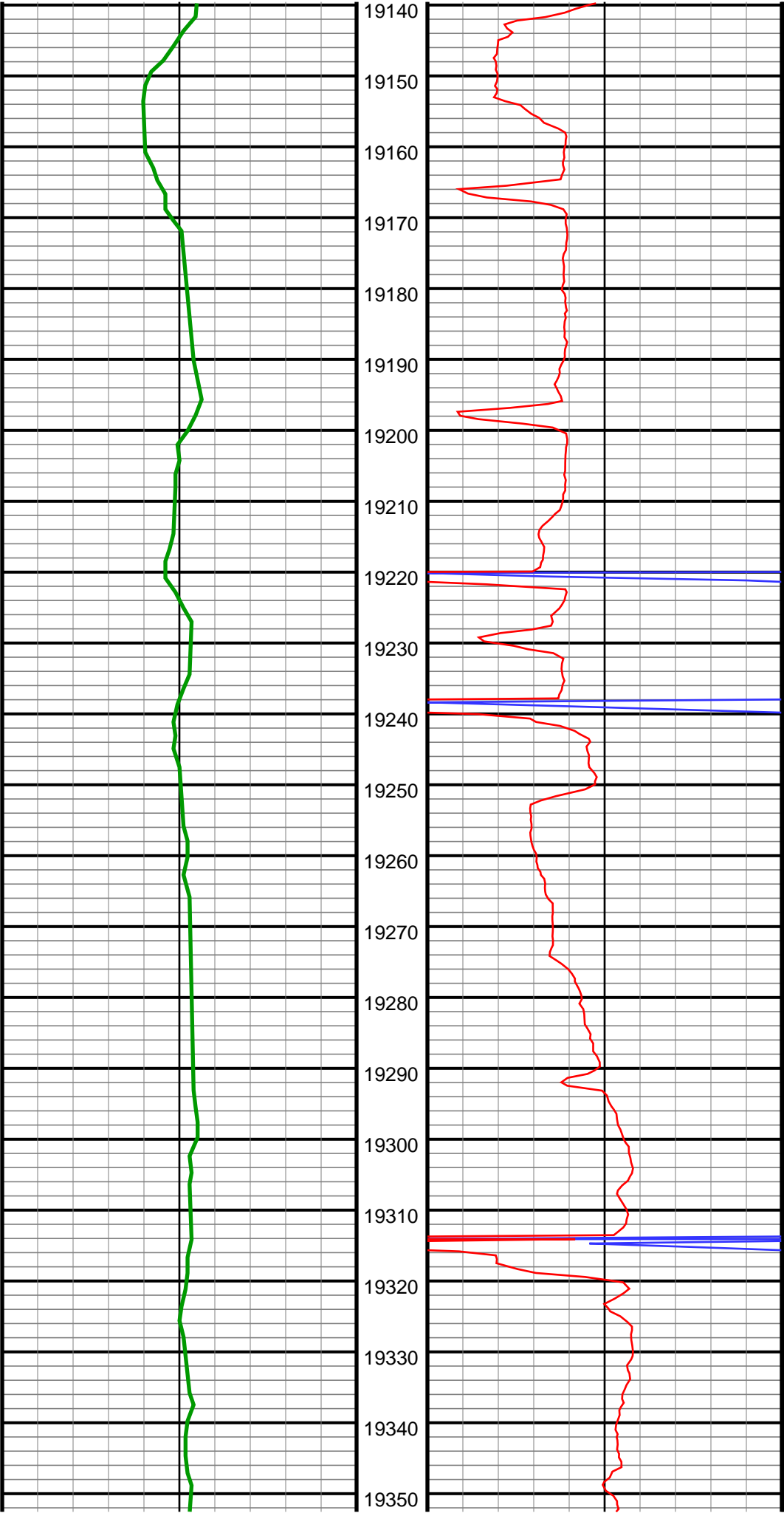
#196 MD(18791.00) Inc(90.2) Azm(180.7) TVD(6950.74)

#197 MD(18886.00) Inc(89.5) Azm(179.9) TVD(6950.99)



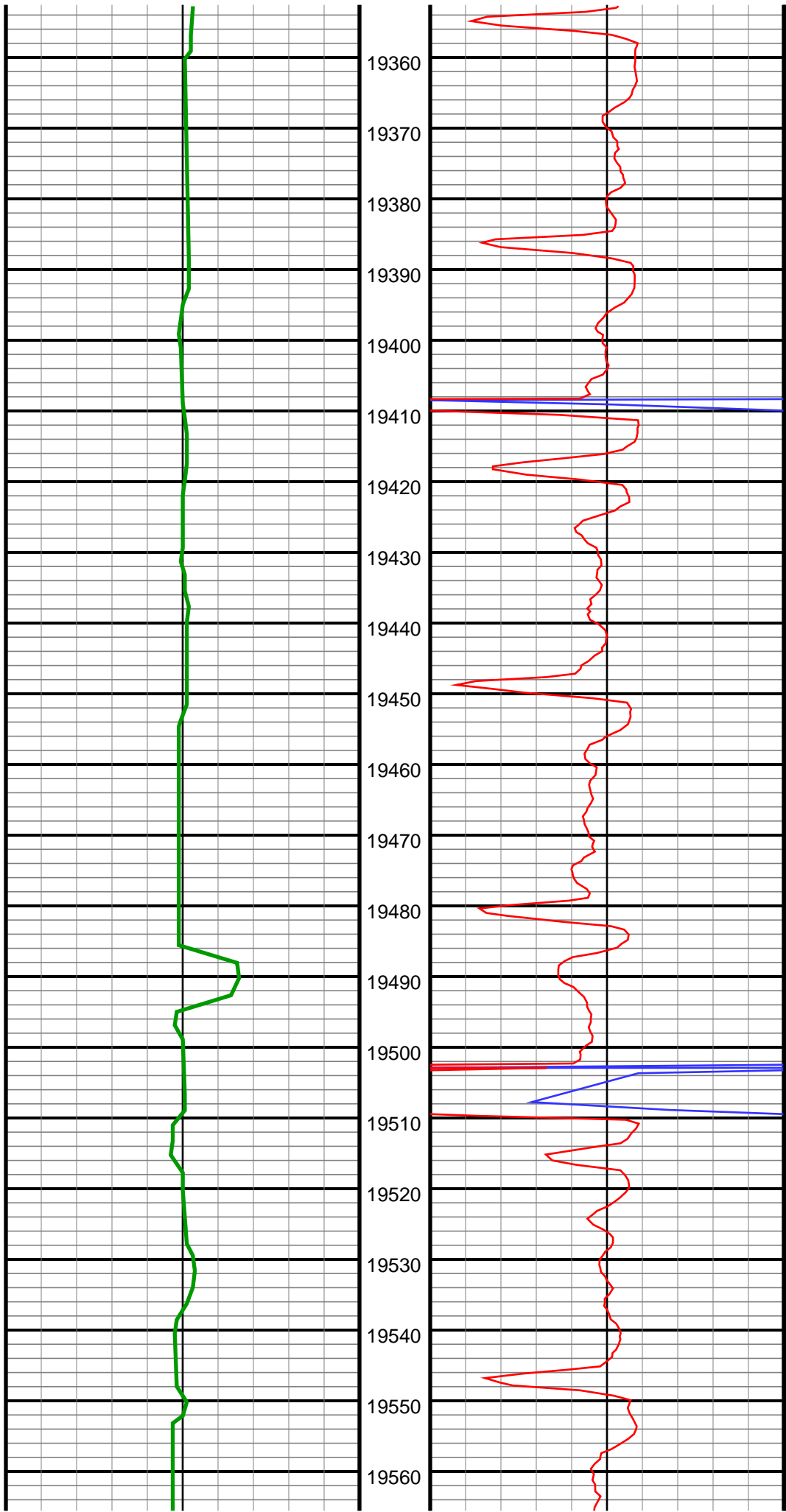
#198 MD(18981.00) Inc(90.5) Azm(179.1) TVD(6950.99)

#199 MD(19075.00) Inc(90.1) Azm(179.3) TVD(6950.50)



#200 MD(19170.00) Inc(90.0) Azm(178.9) TVD(6950.41)

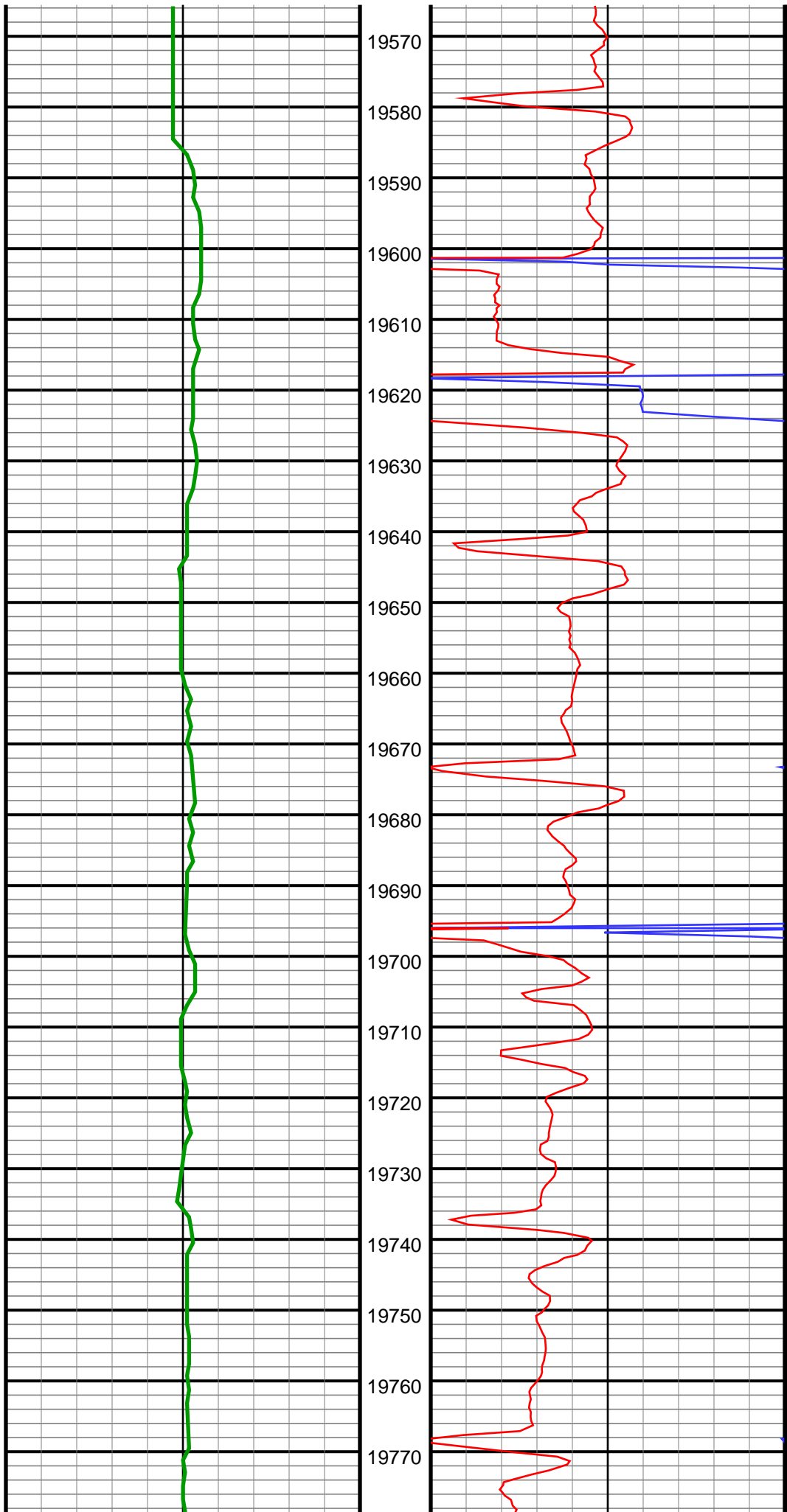
#201 MD(19264.00) Inc(90.2) Azm(178.9) TVD(6950.25)



#202 MD(19359.00) Inc(90.8) Azm(178.3) TVD(6949.42)

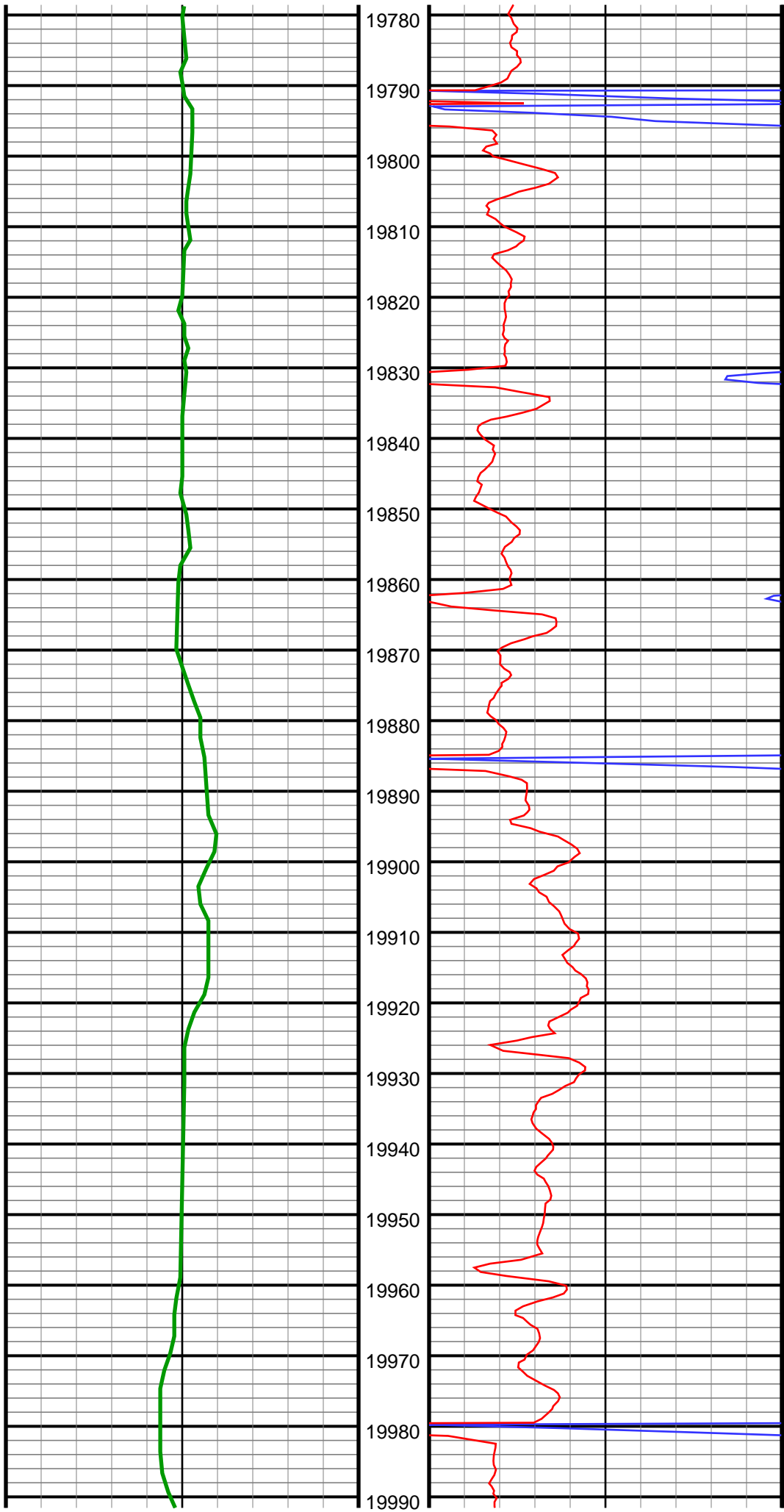
#203 MD(19453.00) Inc(90.3) Azm(178.6) TVD(6948.52)

#204 MD(19548.00) Inc(89.9) Azm(178.8) TVD(6948.35)



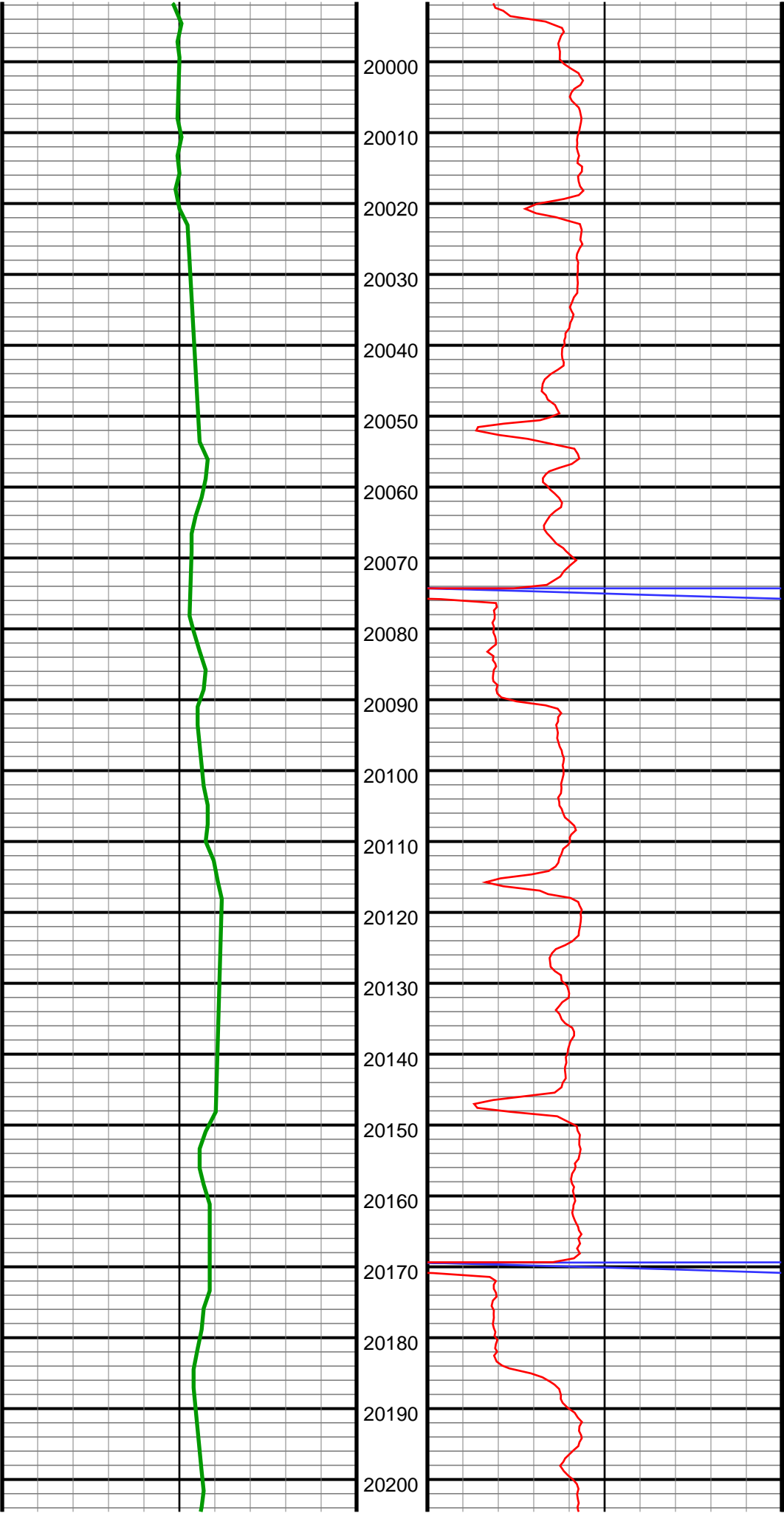
#205 MD(19642.00) Inc(90.4) Azm(178.6) TVD(6948.11)

#206 MD(19737.00) Inc(90.4) Azm(178.4) TVD(6947.44)



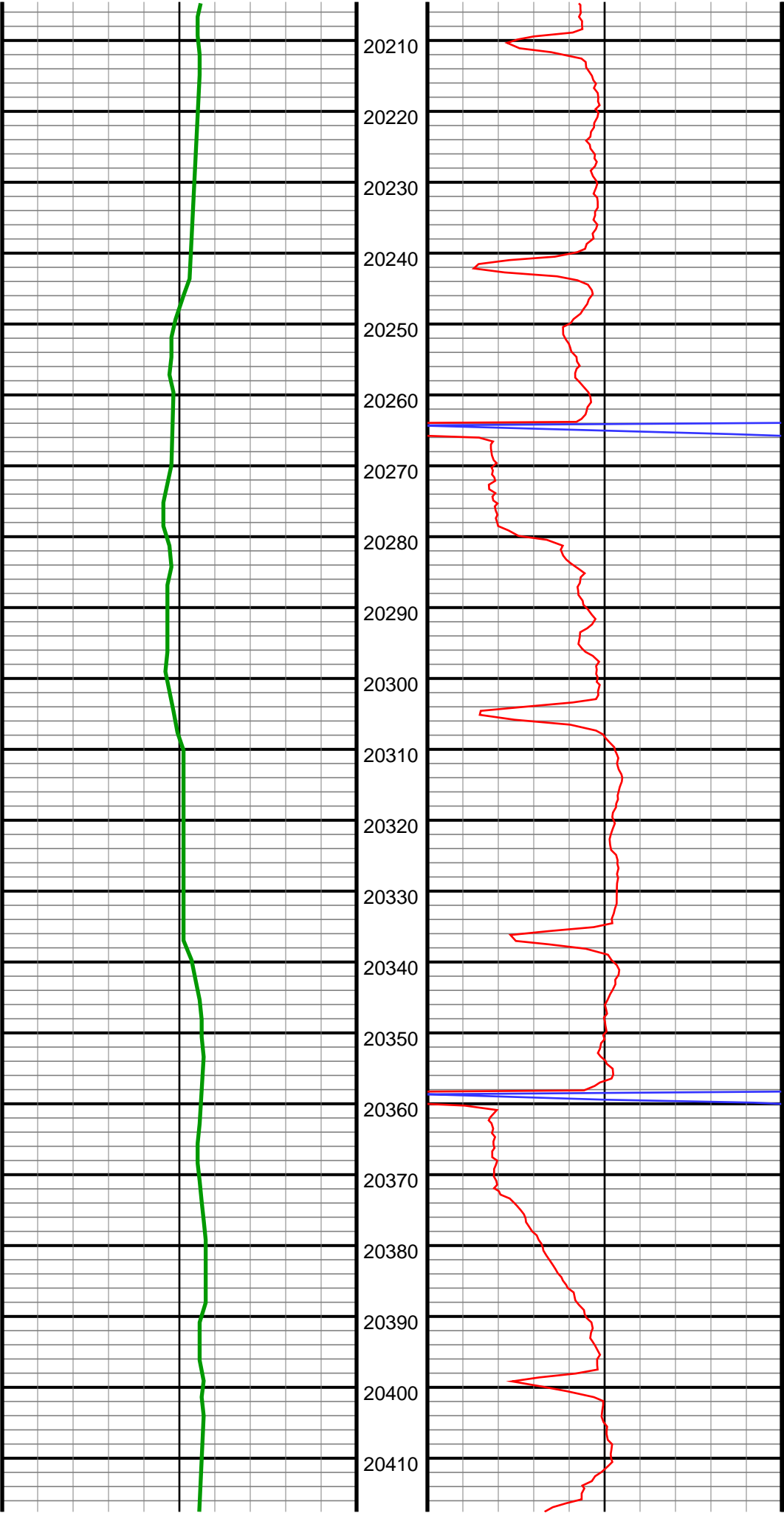
#207 MD(19831.00) Inc(89.9) Azm(178.4) TVD(6947.20)

#208 MD(19926.00) Inc(90.2) Azm(178.5) TVD(6947.11)



#209 MD(20021.00) Inc(89.4) Azm(178.7) TVD(6947.44)

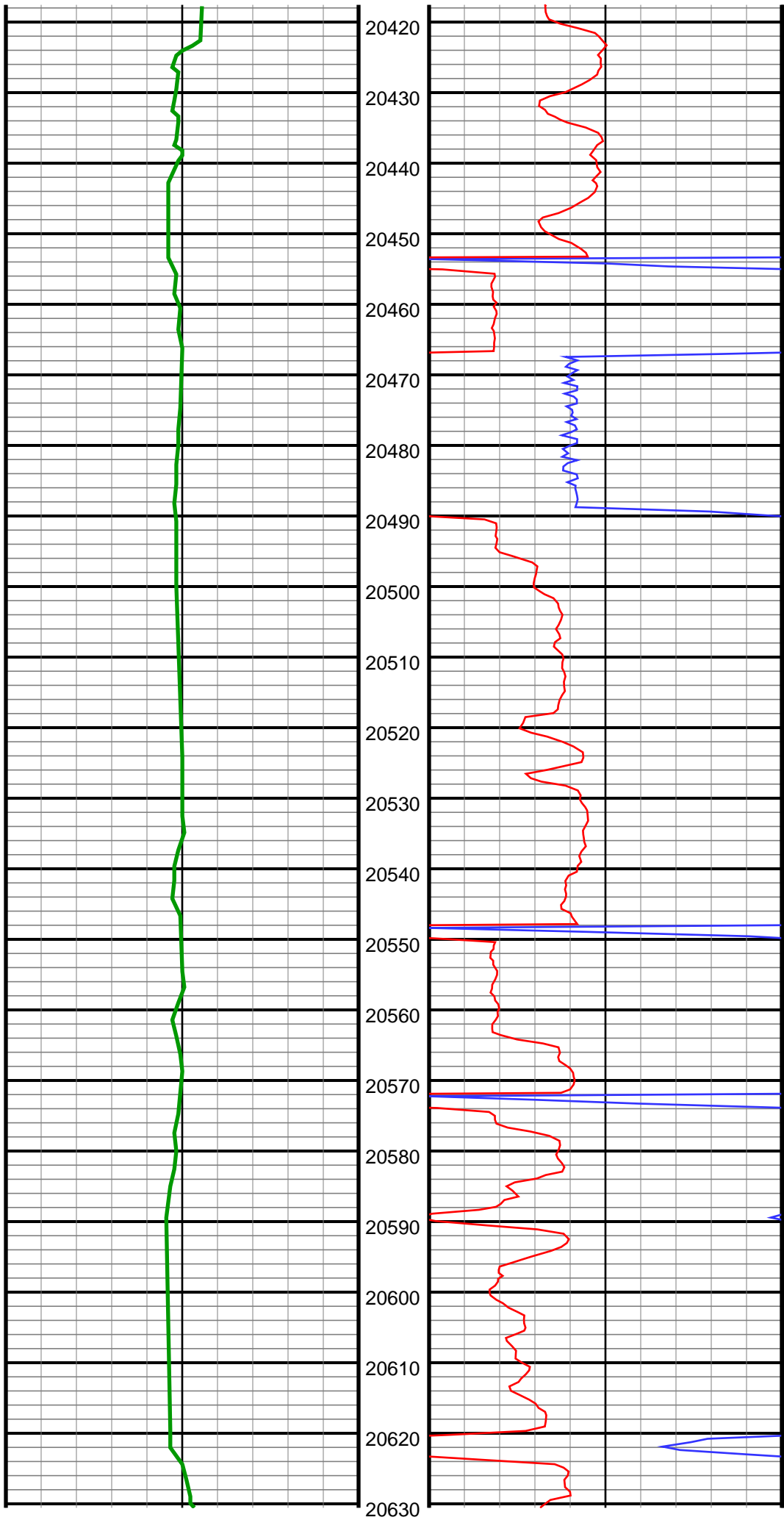
#210 MD(20116.00) Inc(90.1) Azm(178.9) TVD(6947.86)



#211 MD(20211.00) Inc(90.4) Azm(178.9) TVD(6947.44)

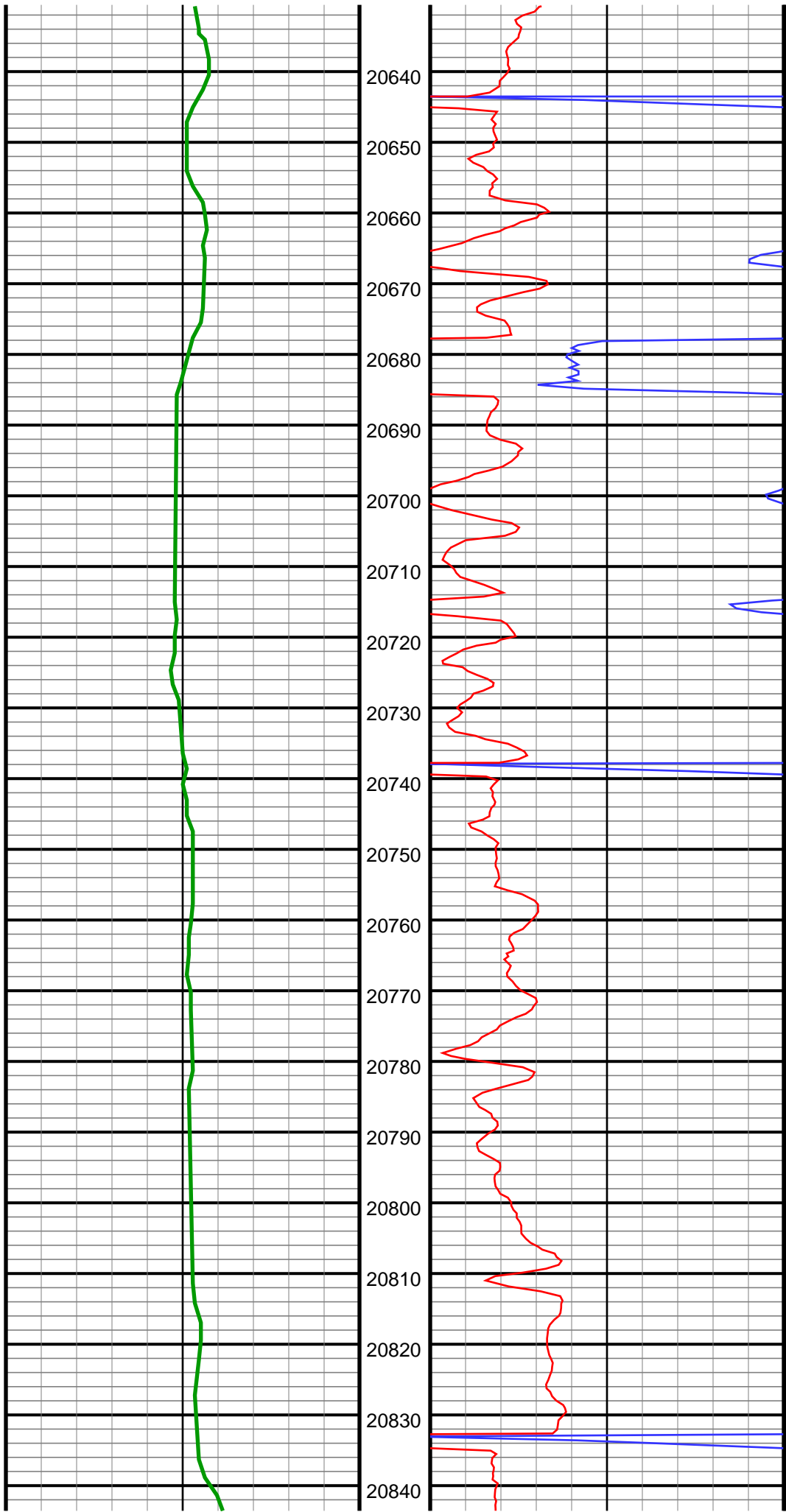
#212 MD(20305.00) Inc(89.6) Azm(178.7) TVD(6947.44)

#213 MD(20400.00) Inc(90.4) Azm(179.8) TVD(6947.44)



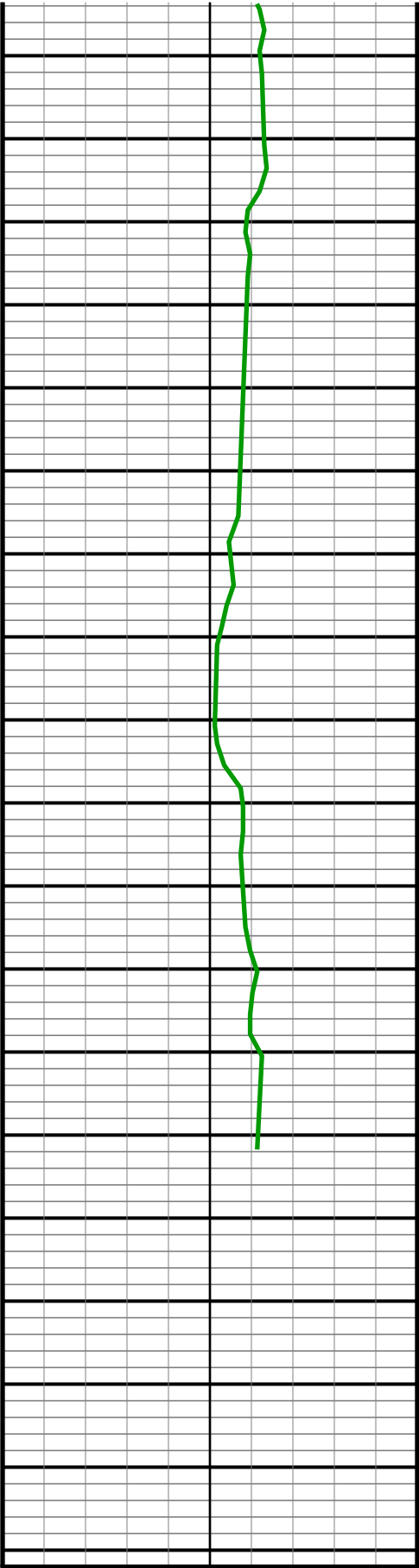
#214 MD(20495.00) Inc(89.9) Azm(178.7) TVD(6947.20)

#215 MD(20590.00) Inc(89.1) Azm(177.7) TVD(6948.02)

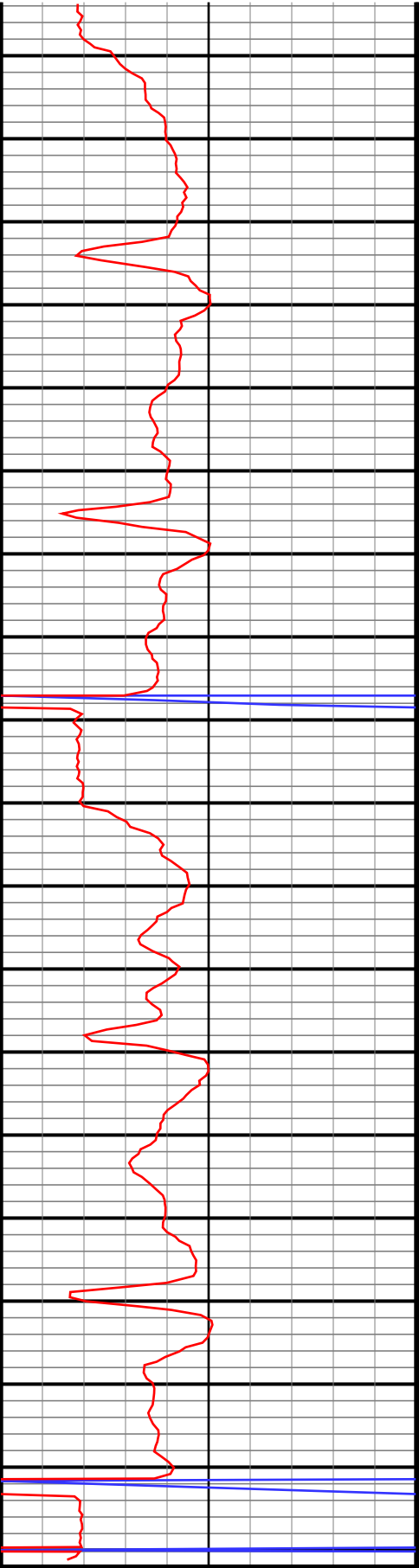


#216 MD(20685.00) Inc(89.1) Azm(177.6) TVD(6949.52)

#217 MD(20780.00) Inc(89.5) Azm(177.9) TVD(6950.68)



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#218 MD(20874.00) Inc(89.3) Azm(177.9) TVD(6951.66)

#219 MD(20969.00) Inc(89.5) Azm(178.4) TVD(6952.66)

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