



CS-Bittersweet C1-1-13

MD
5":100'

Company: Extraction Oil and Gas

Well Name: CS-Bittersweet C1-1-13

API: 05-123-42936-00

County/Parish: Weld

State: CO

Country: USA

Job number: 2017-173-2017

Field: DJ Basin

Rig Id: Patterson 341

Survey Company: Total Directional

Daylight DD Chris Lewis

Night DD Sam Antirim

Daylight MWD Nolan Cutthbert

Night MWD Tim Sinning

Log measurements: Gamma Ray

Depth measured from:

Maximum temperature:

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

Casing Depth Size
Surface: 1587 ft 9 5/8"
Intermediate:

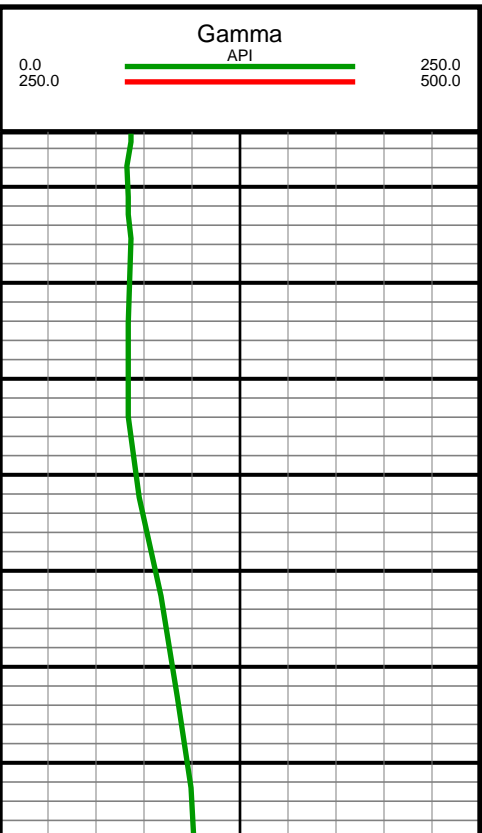
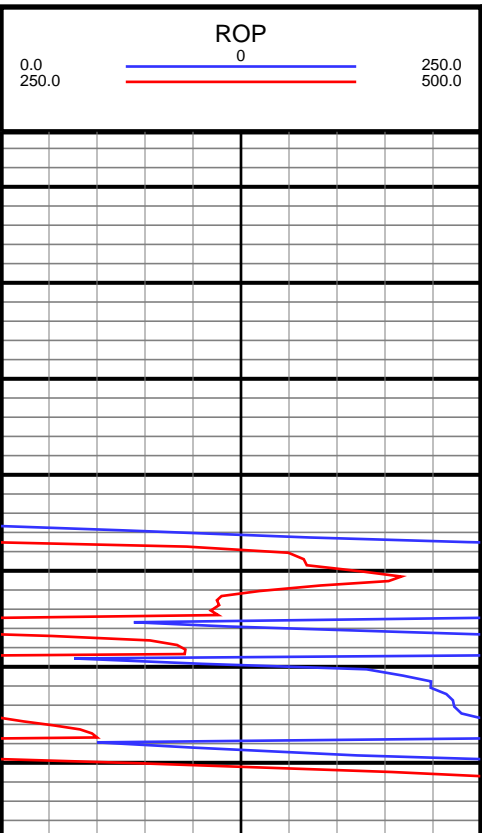
Mud Type: OBM
Density:
Viscosity:
Rm:
Rmf:
Rmc:

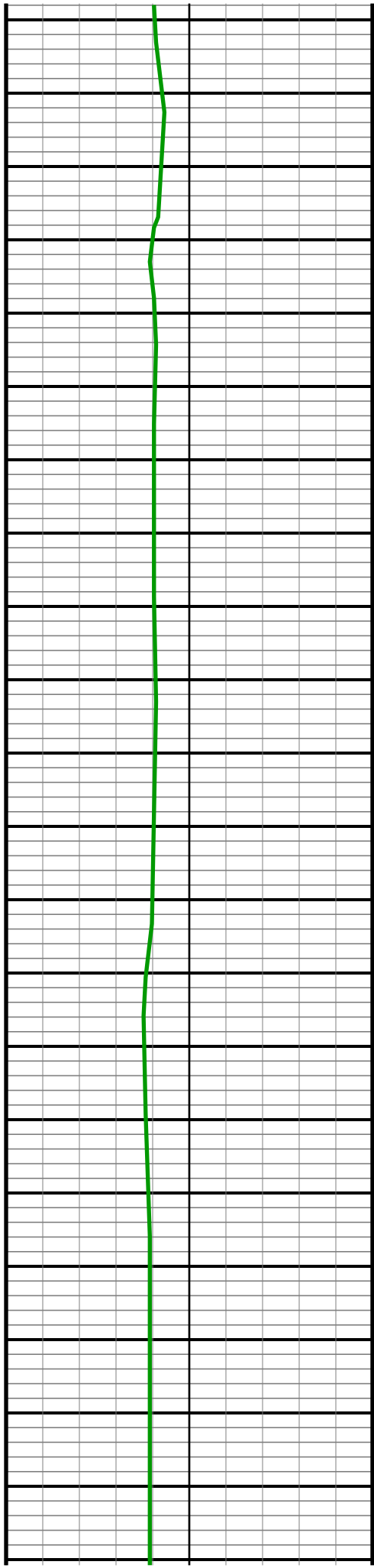
Elevations
KB: 4690 ft
GL: 4665 ft
DF: 25 ft

Run	Bit Size	Gamma	Offsets Survey	Start	End	Start	End	Dates
1	13.25"		60.00 ft	0 ft	1596 ft	6/22/2017	6/23/2017	
2	8.75"			1596 ft		6/30/2017		
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4					19892 ft		7/05/2017	
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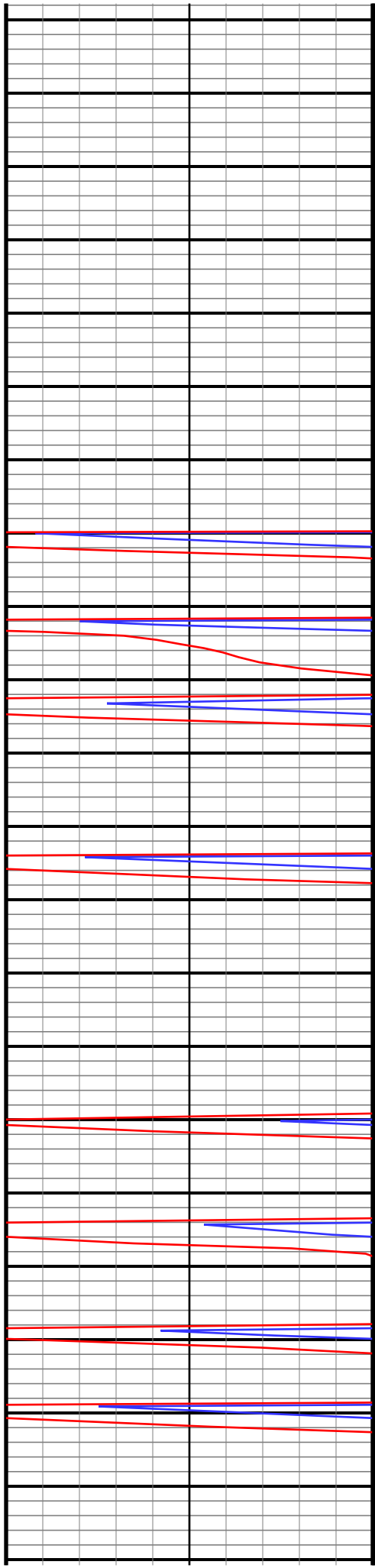
Total Directional uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.

MD





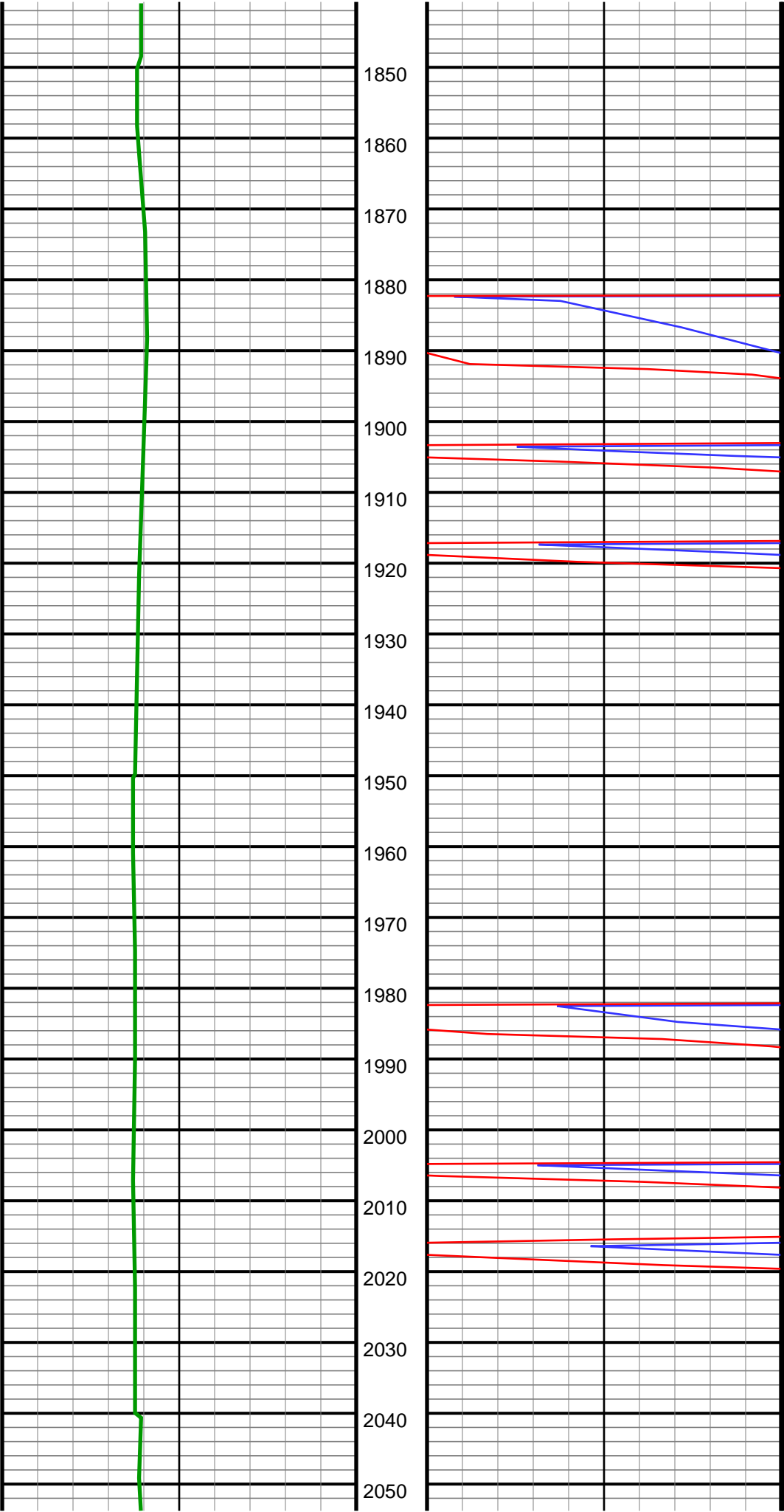
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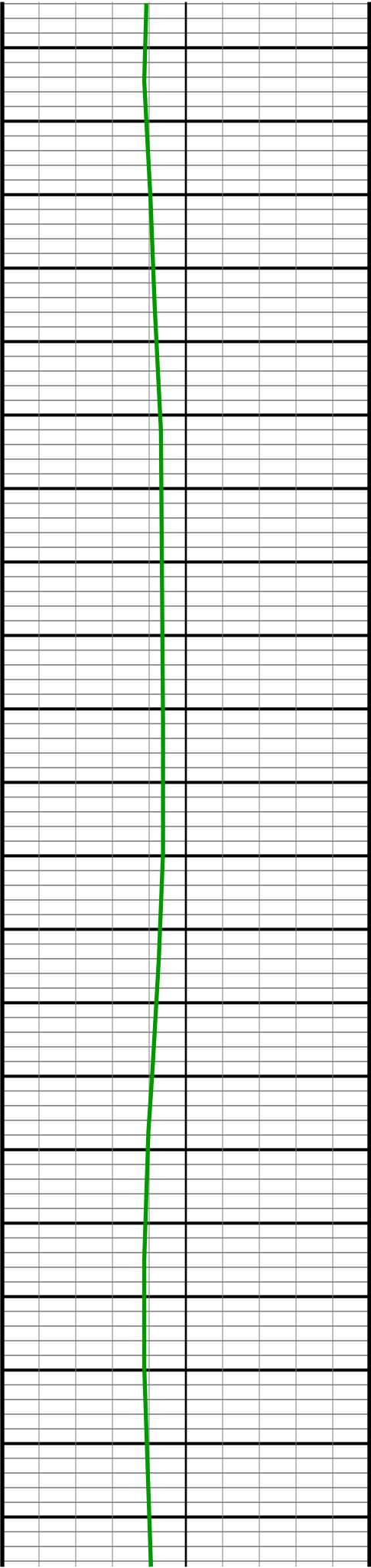


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#18 MD(1736.00) Inc(29.5) Azm(266.1) TVD(1654.27)

#19 MD(1831.00) Inc(31.6) Azm(266.3) TVD(1736.08)





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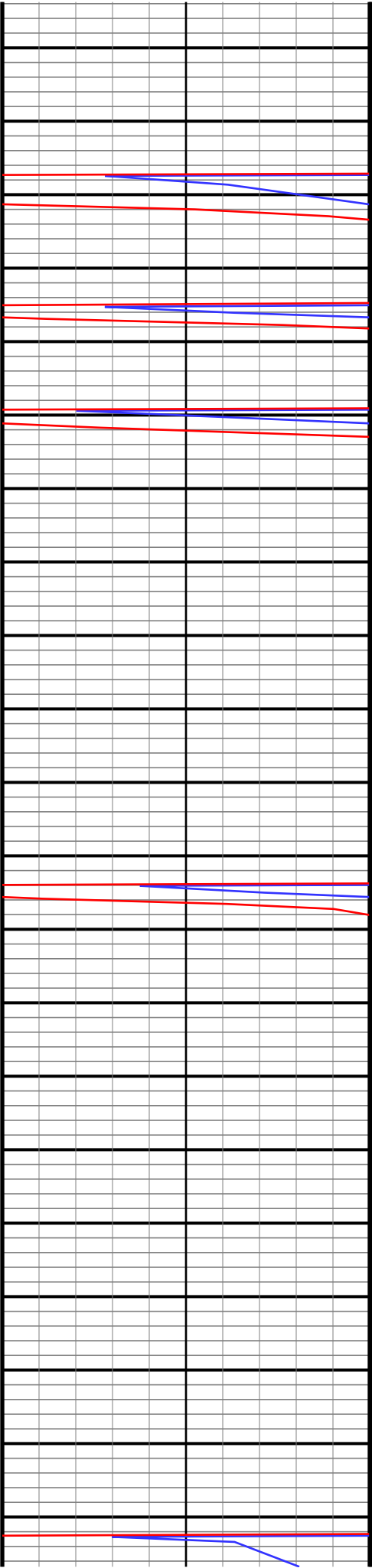
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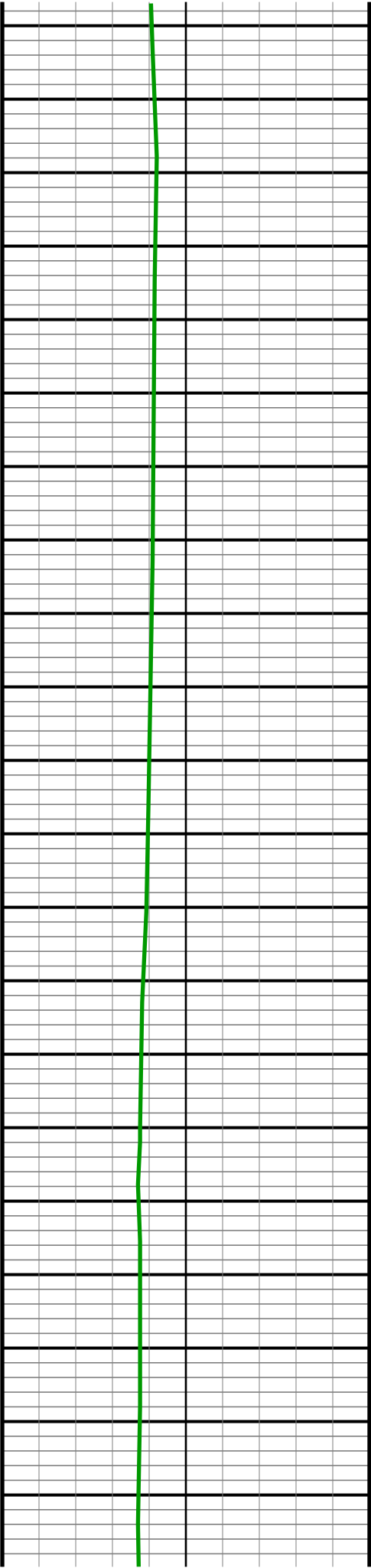
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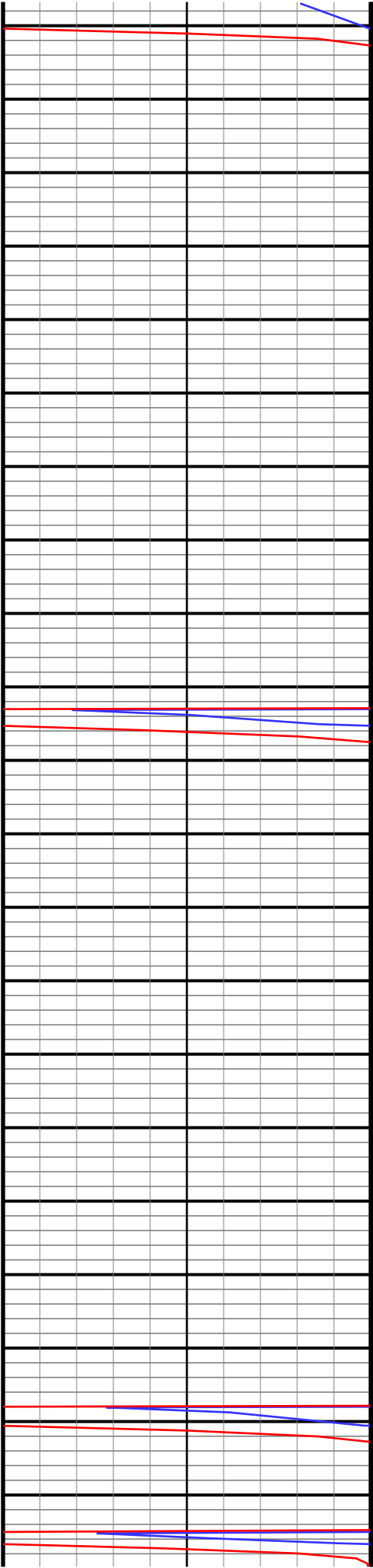


#22 MD(2115.00) Inc(37.8) Azm(265.2) TVD(1968.98)

#23 MD(2210.00) Inc(38.2) Azm(265.1) TVD(2043.84)

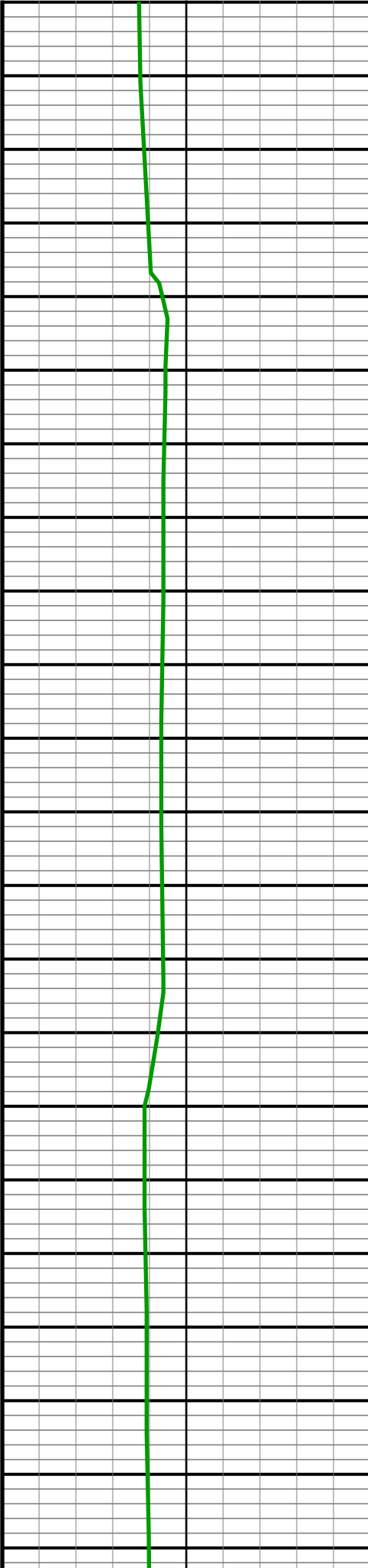


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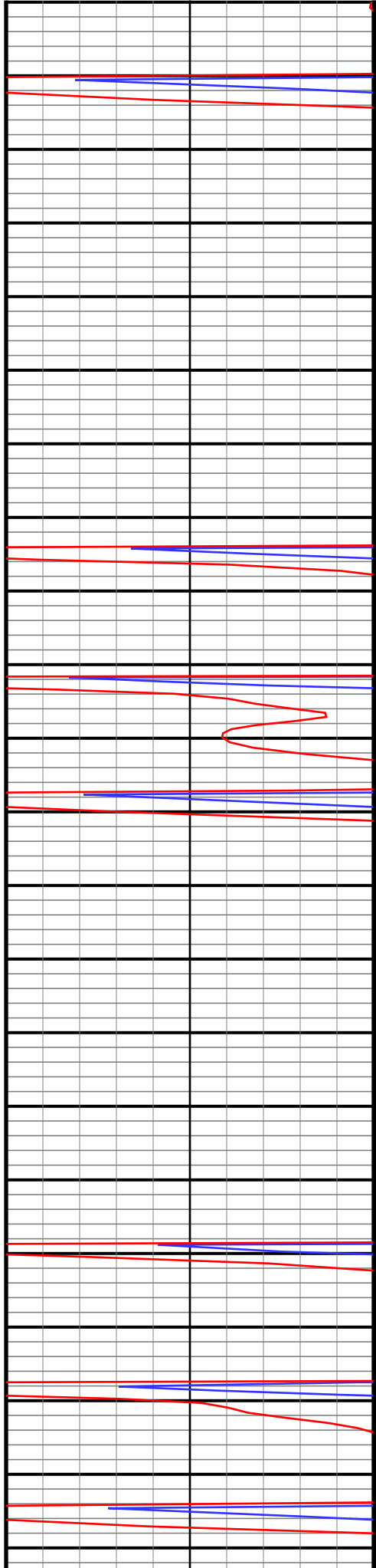


#24 MD(2305.00) Inc(37.9) Azm(264.8) TVD(2118.65)

#25 MD(2400.00) Inc(37.0) Azm(263.5) TVD(2194.07)



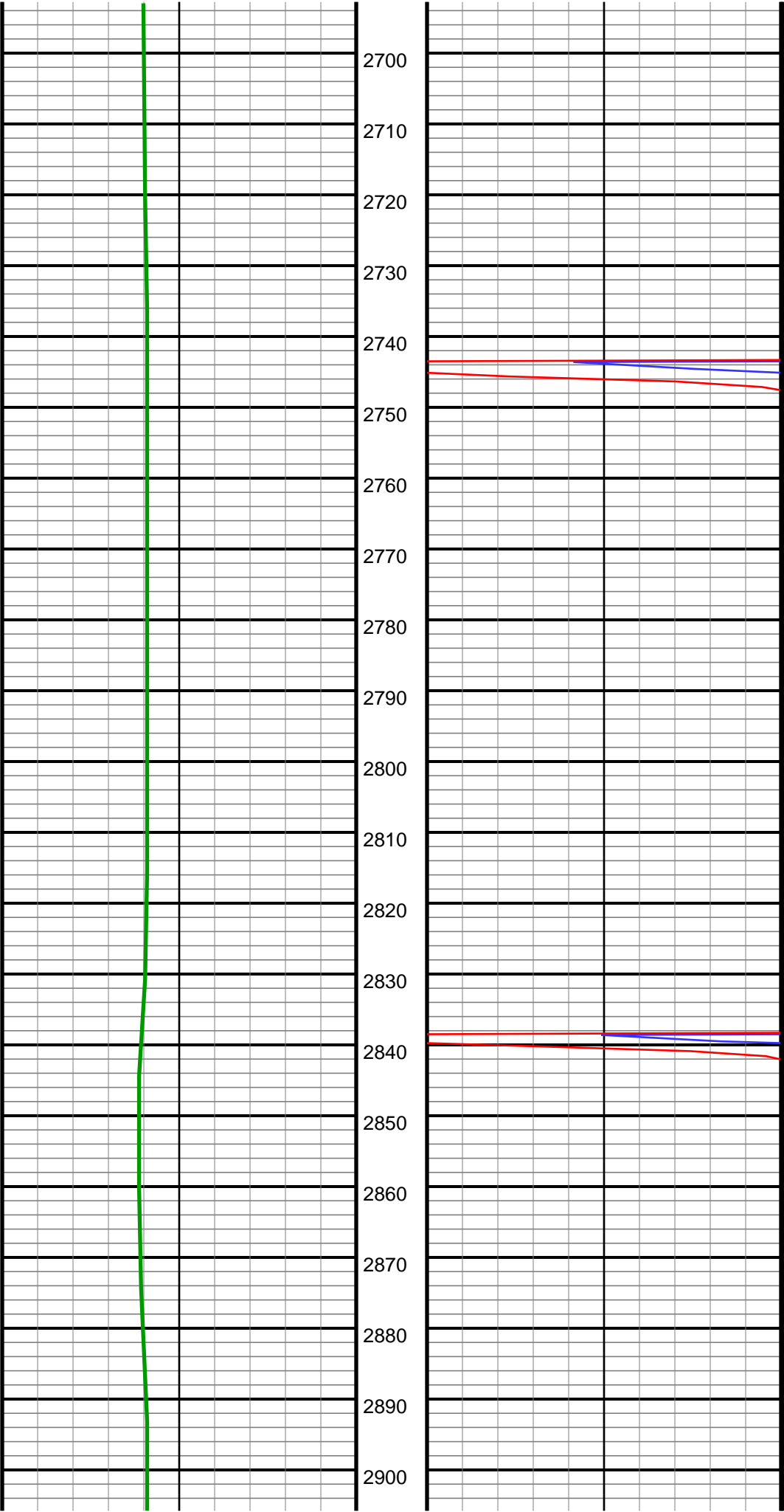
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#26 MD(2495.00) Inc(35.9) Azm(266.7) TVD(2270.49)

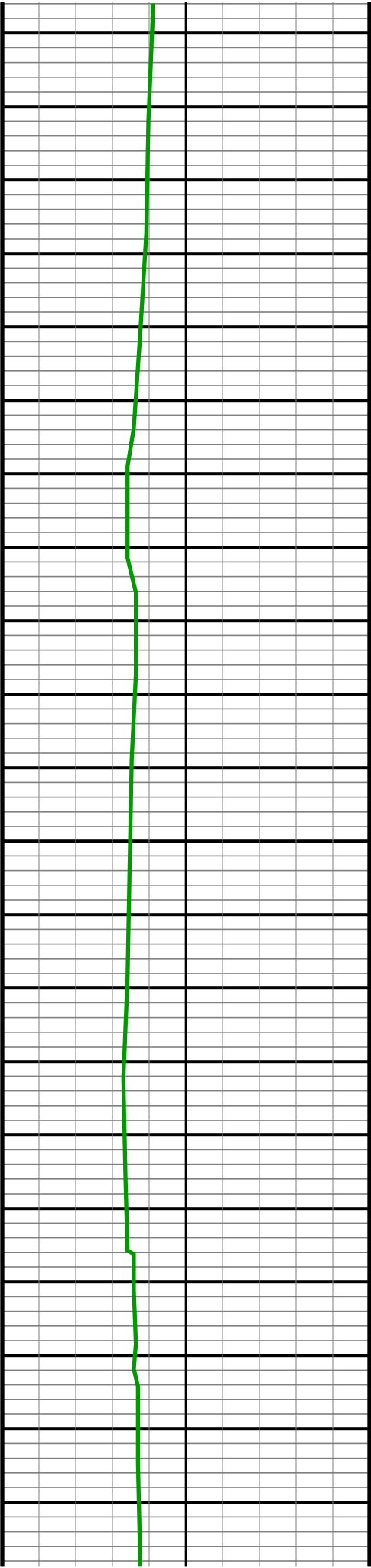
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#28 MD(2685.00) Inc(39.4) Azm(267.2) TVD(2421.94)

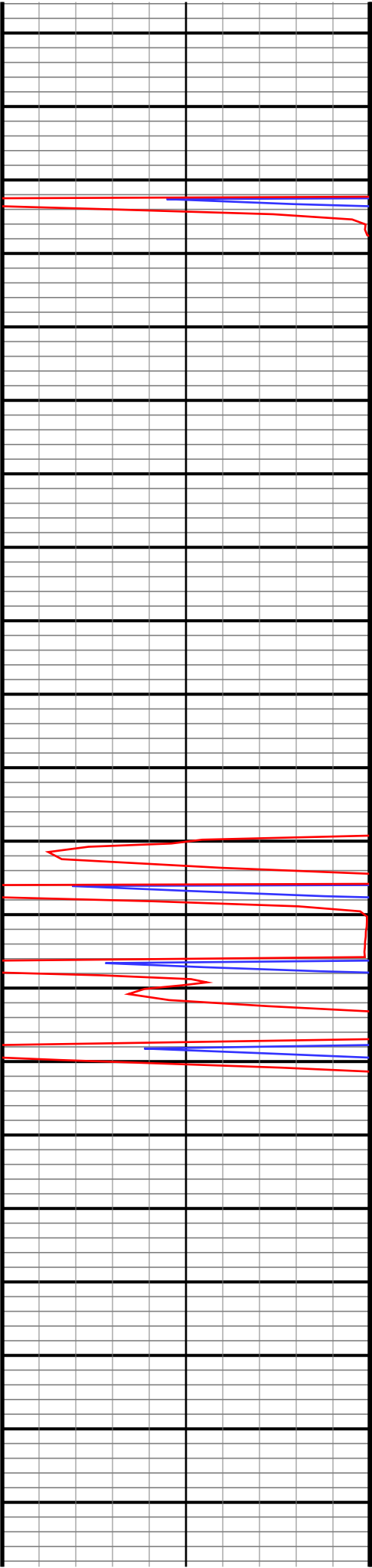


#29 MD(2779.00) Inc(39.9) Azm(266.6) TVD(2494.32)

#30 MD(2873.00) Inc(39.6) Azm(265.6) TVD(2566.59)

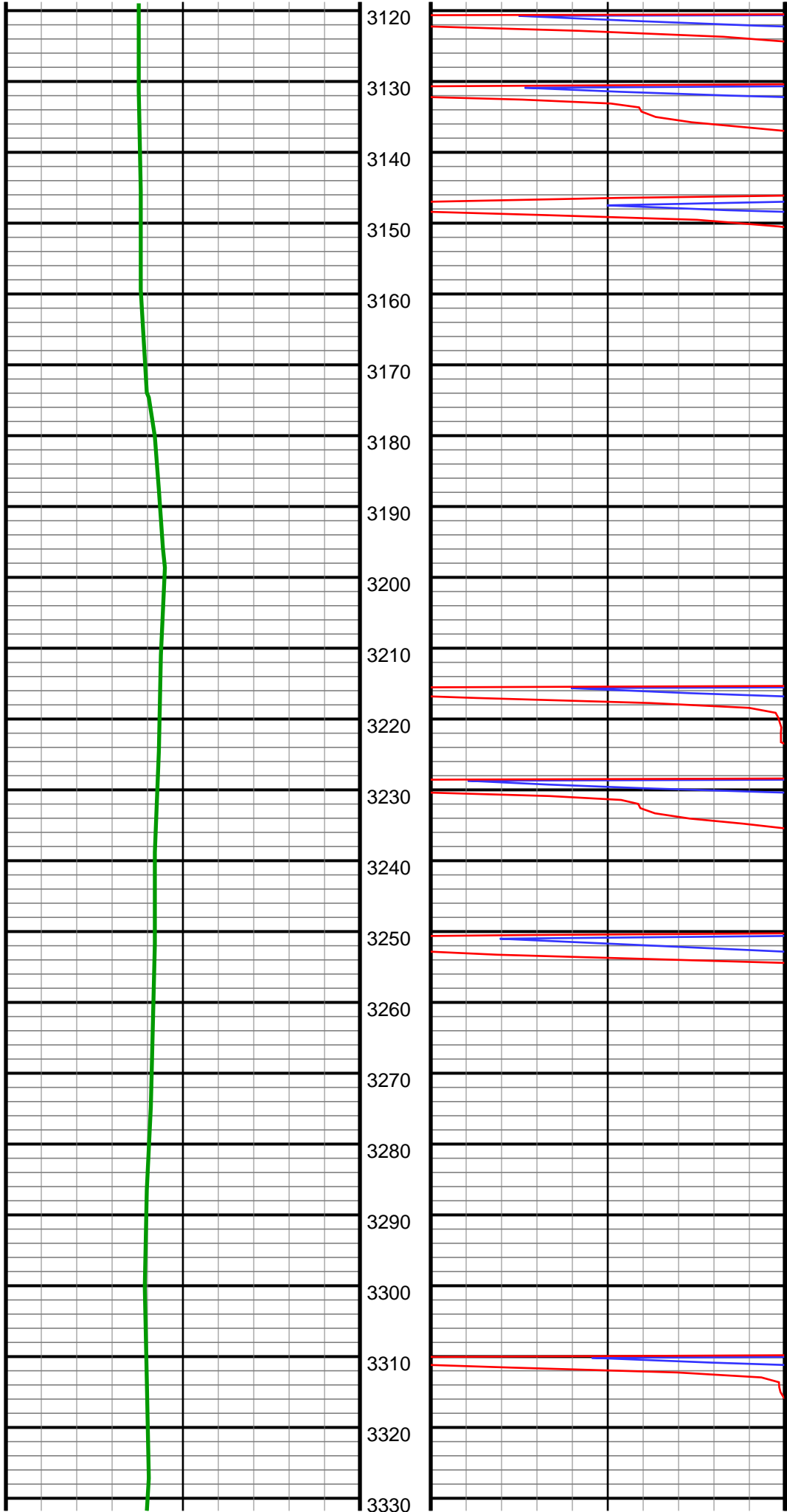


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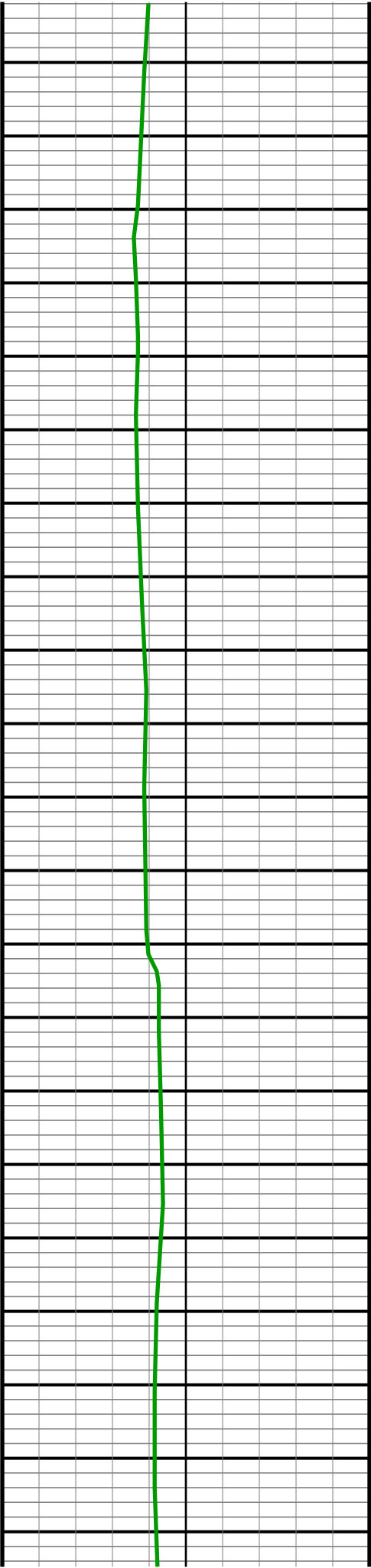
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#32 MD(3061.00) Inc(39.9) Azm(264.2) TVD(2710.76)

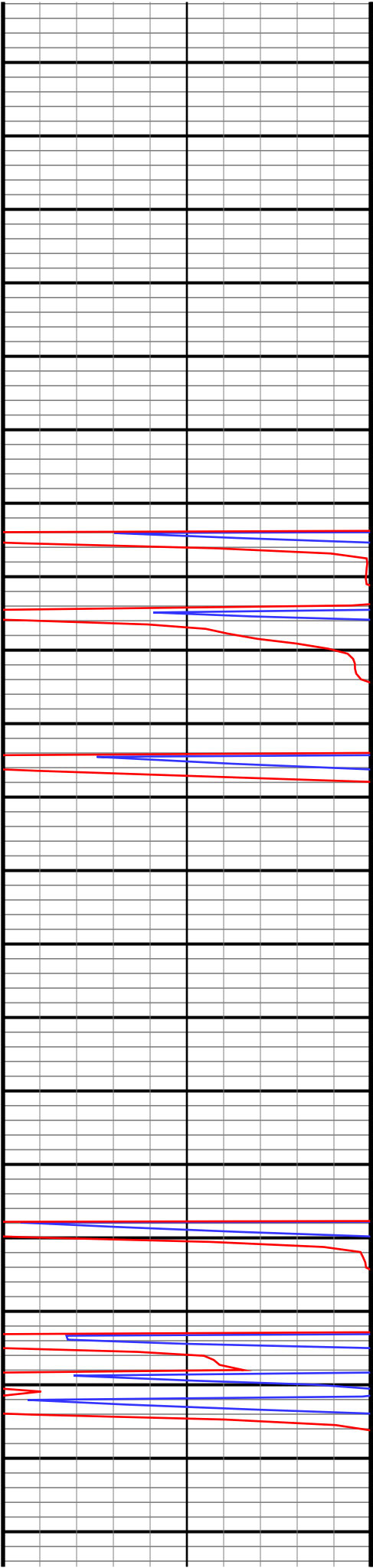


#33 MD(3156.00) Inc(39.3) Azm(264.0) TVD(2783.96)

#34 MD(3250.00) Inc(35.3) Azm(265.8) TVD(2858.72)



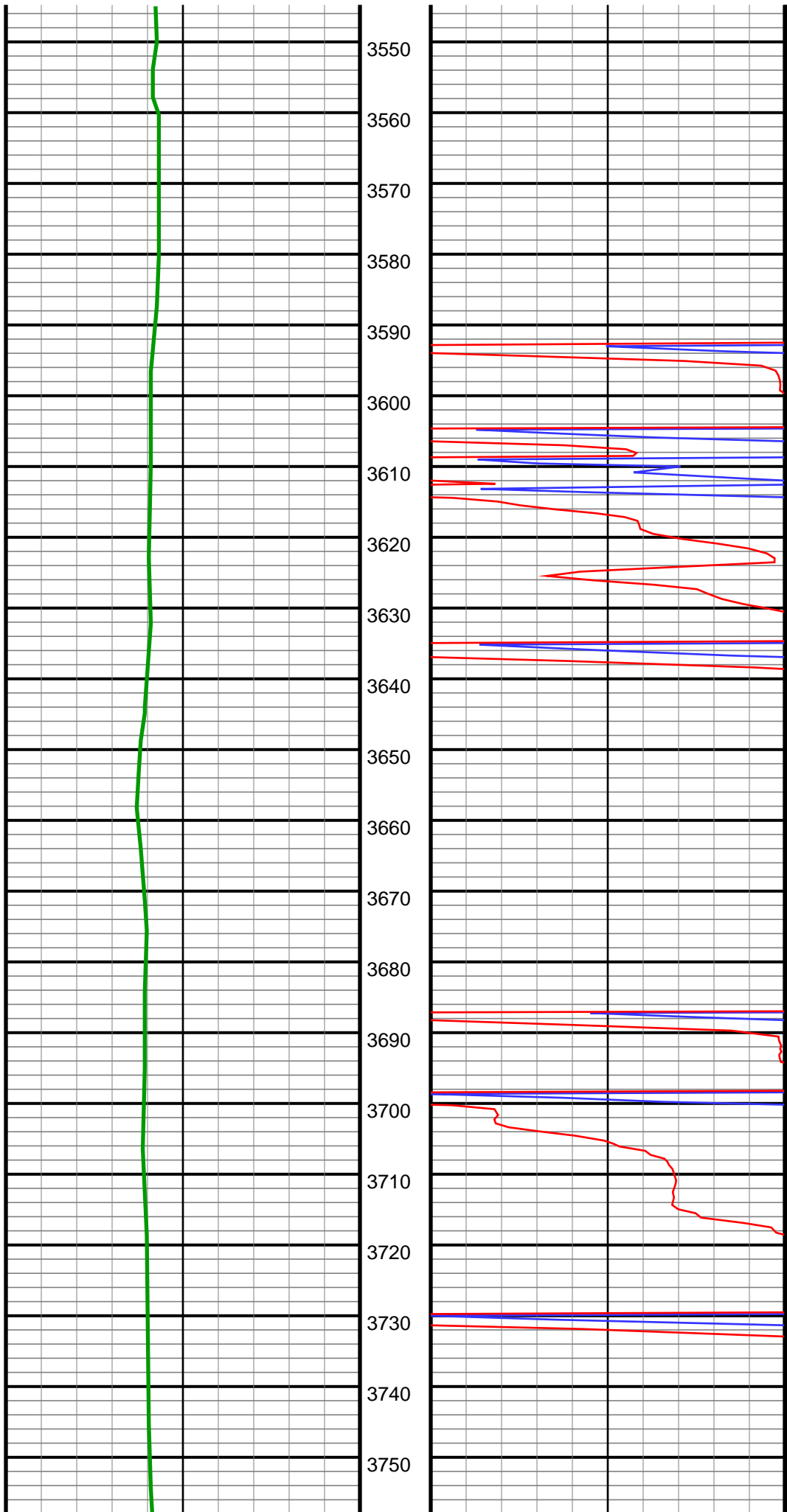
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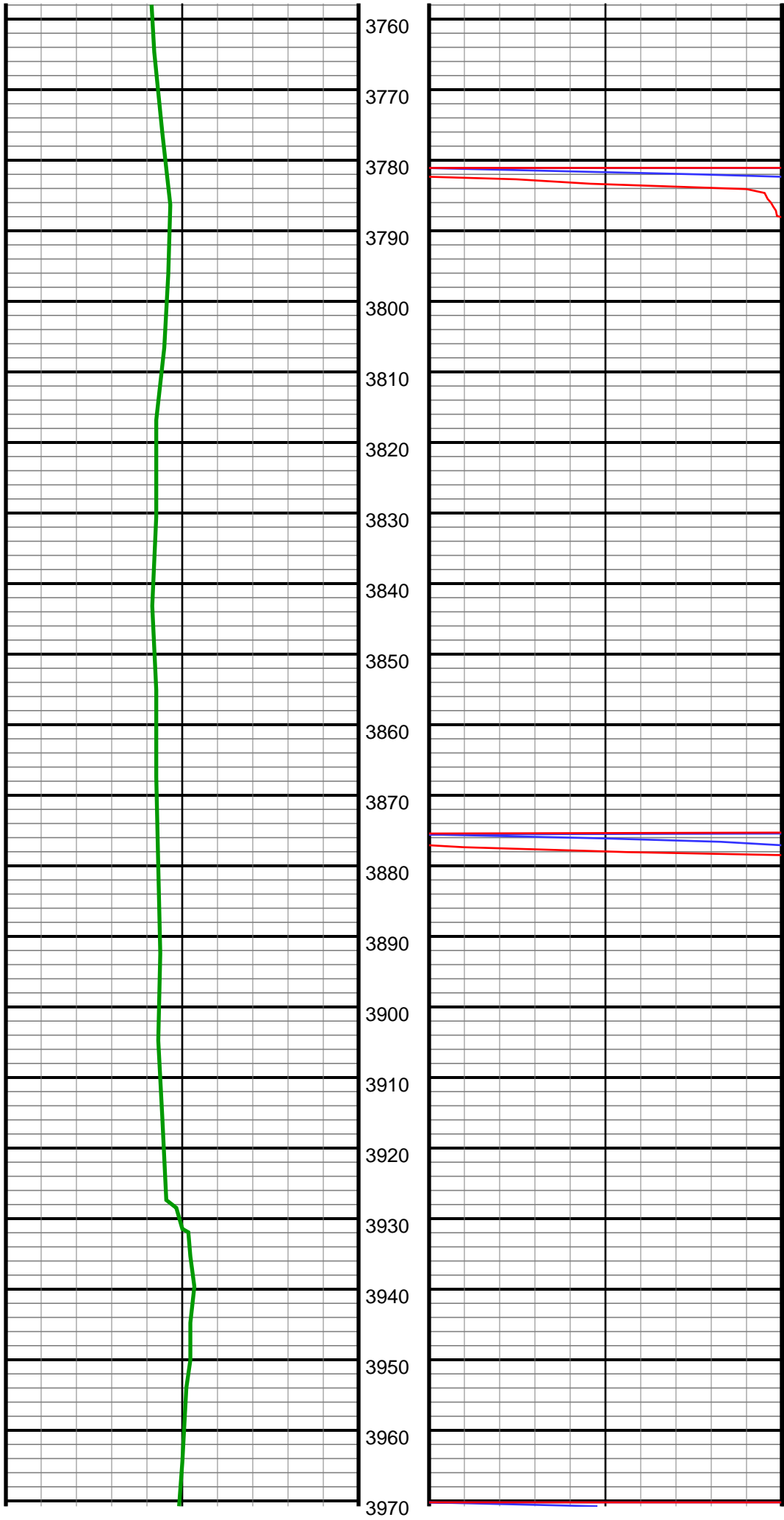
#36 MD(3439.00) Inc(36.0) Azm(268.2) TVD(3013.96)

#37 MD(3532.00) Inc(34.6) Azm(266.8) TVD(3089.86)



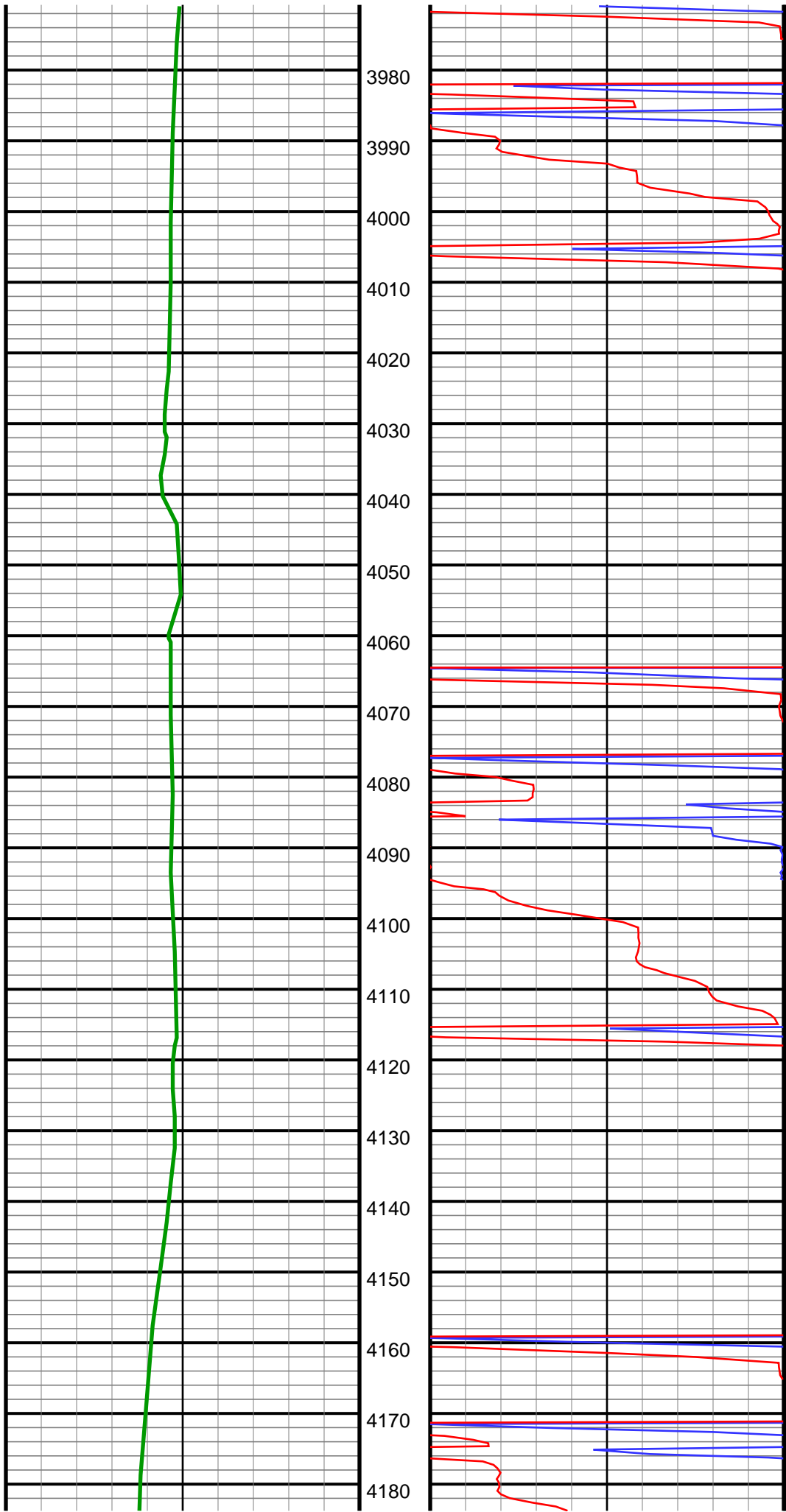
#38 MD(3627.00) Inc(35.0) Azm(264.4) TVD(3167.87)

#39 MD(3721.00) Inc(38.8) Azm(266.7) TVD(3243.03)



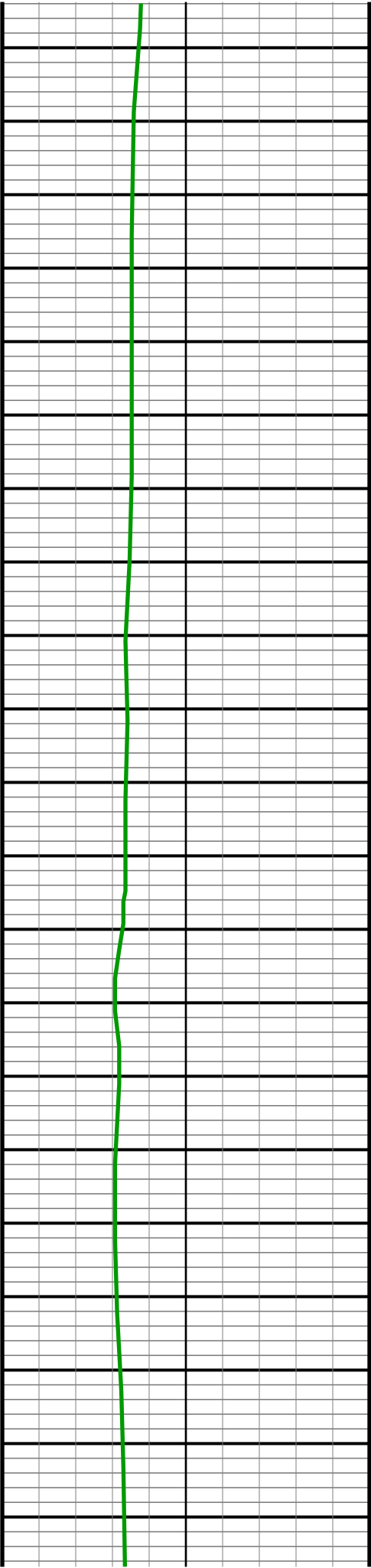
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#41 MD(3910.00) Inc(36.0) Azm(267.1) TVD(3392.15)



#42 MD(4005.00) Inc(35.4) Azm(264.6) TVD(3469.30)

#43 MD(4099.00) Inc(36.5) Azm(263.0) TVD(3545.39)



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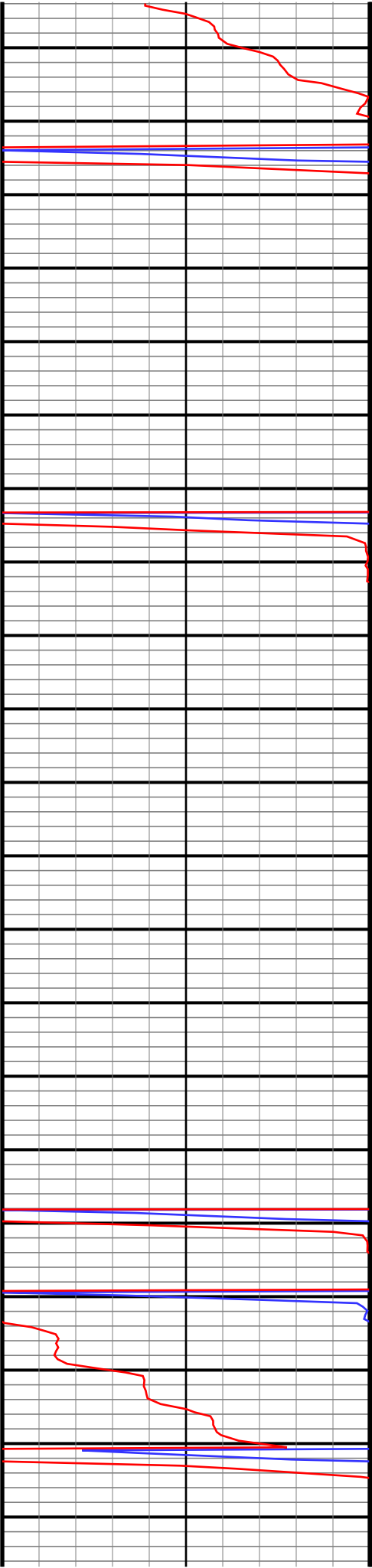
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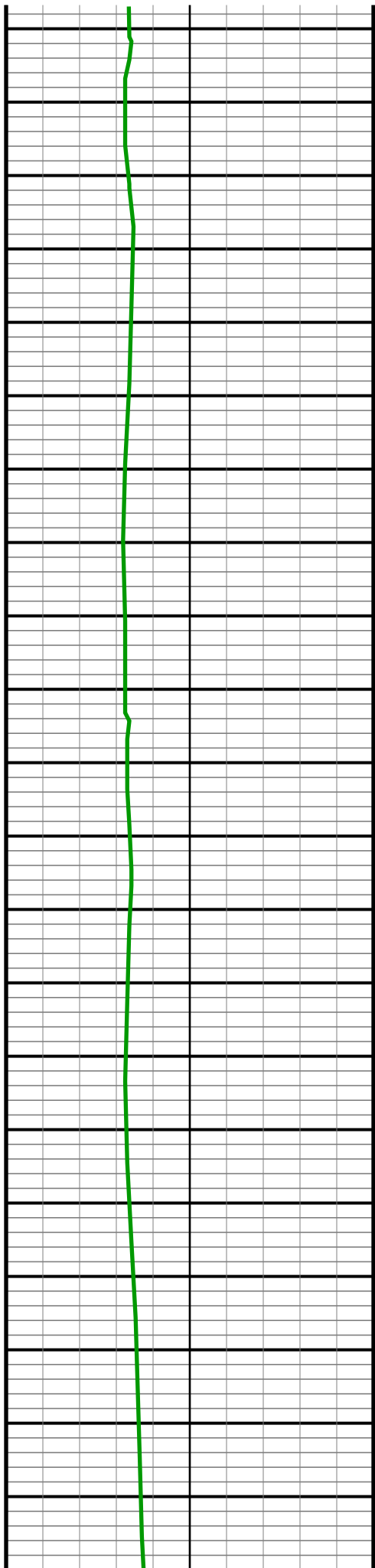
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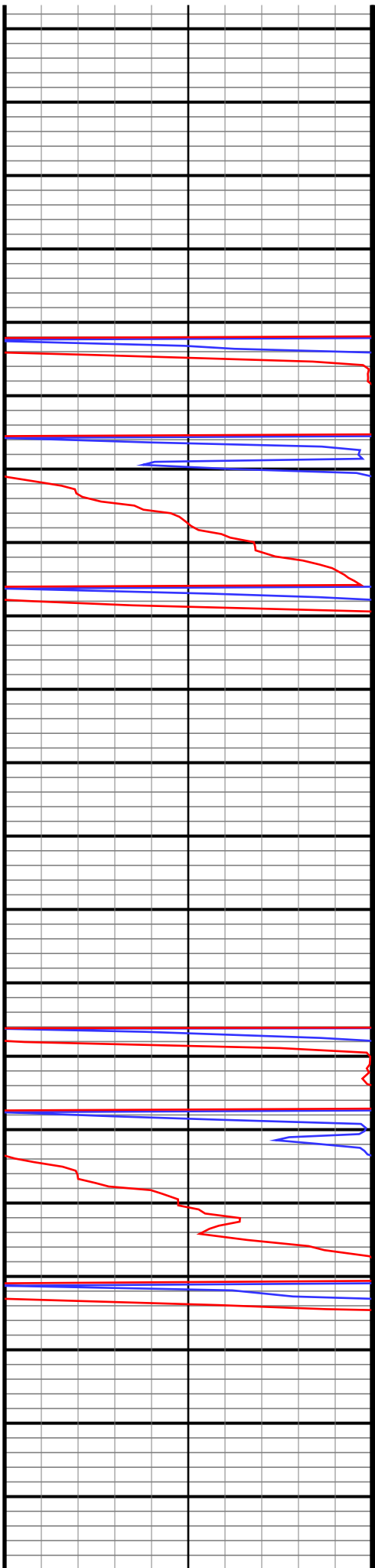
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#45 MD(4288.00) Inc(45.8) Azm(265.6) TVD(3685.55)

#46 MD(4382.00) Inc(43.4) Azm(265.7) TVD(3752.48)

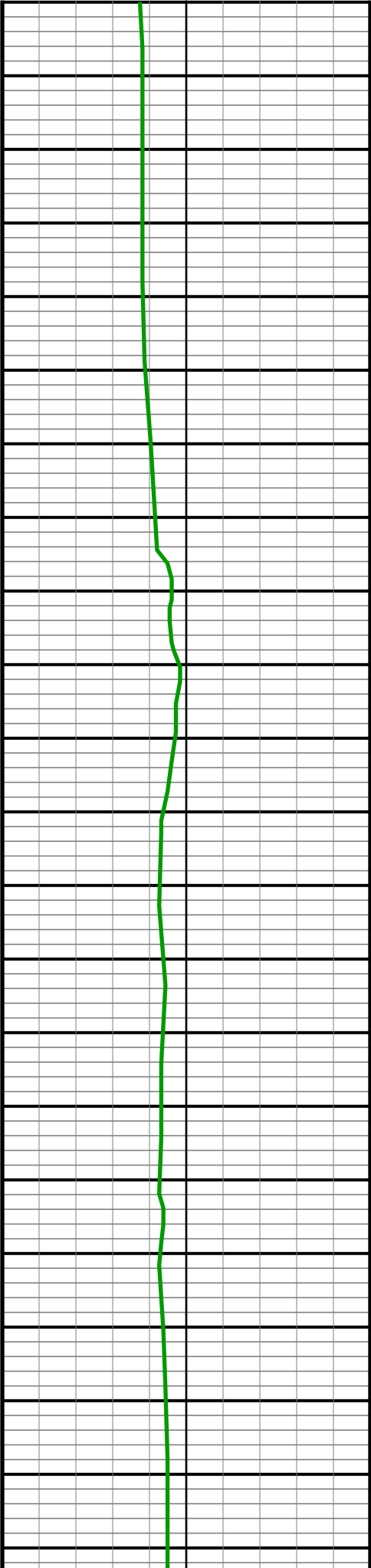


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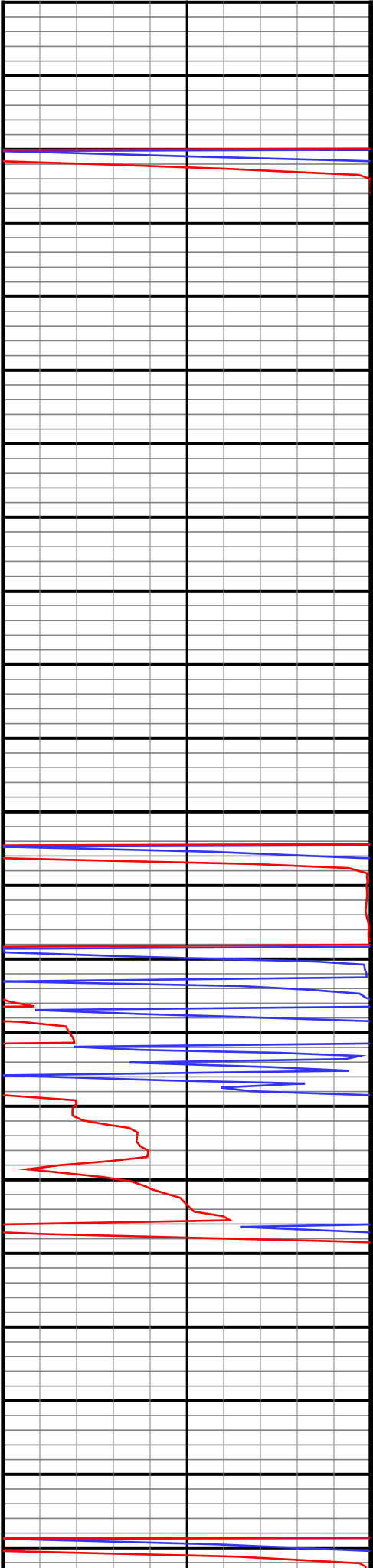


#47 MD(4477.00) Inc(41.8) Azm(264.4) TVD(3822.41)

#48 MD(4571.00) Inc(38.5) Azm(263.6) TVD(3894.25)

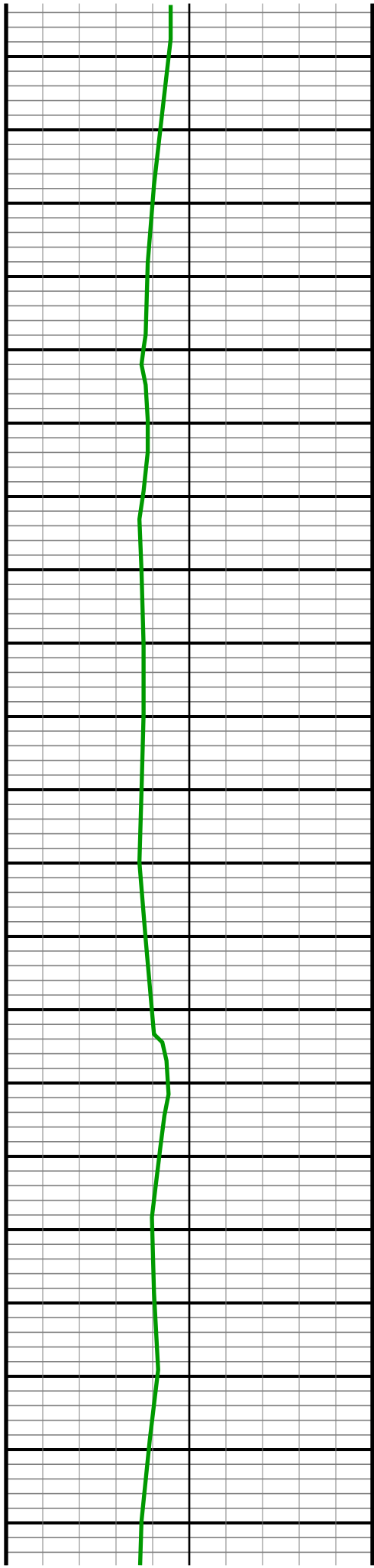


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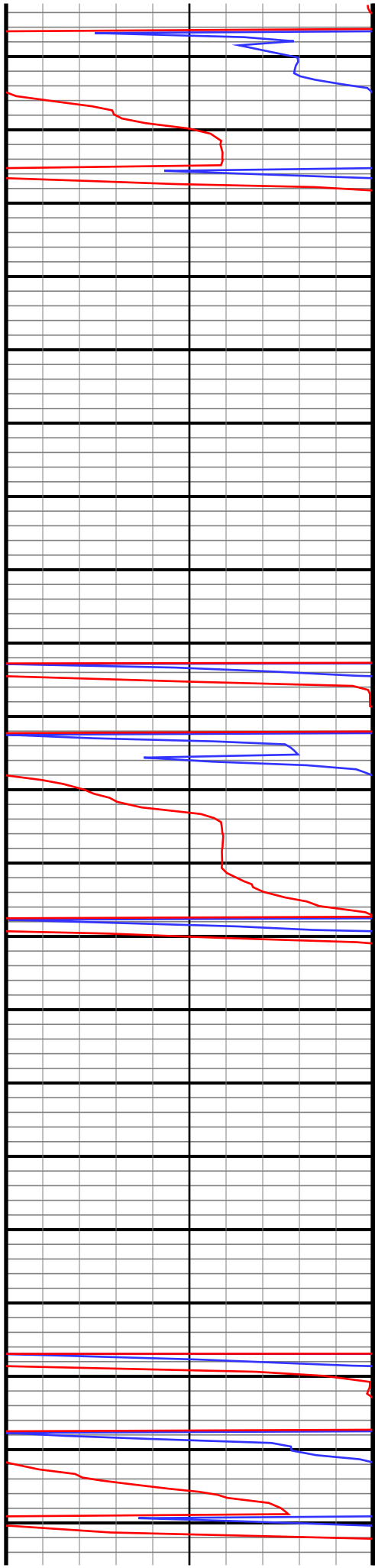


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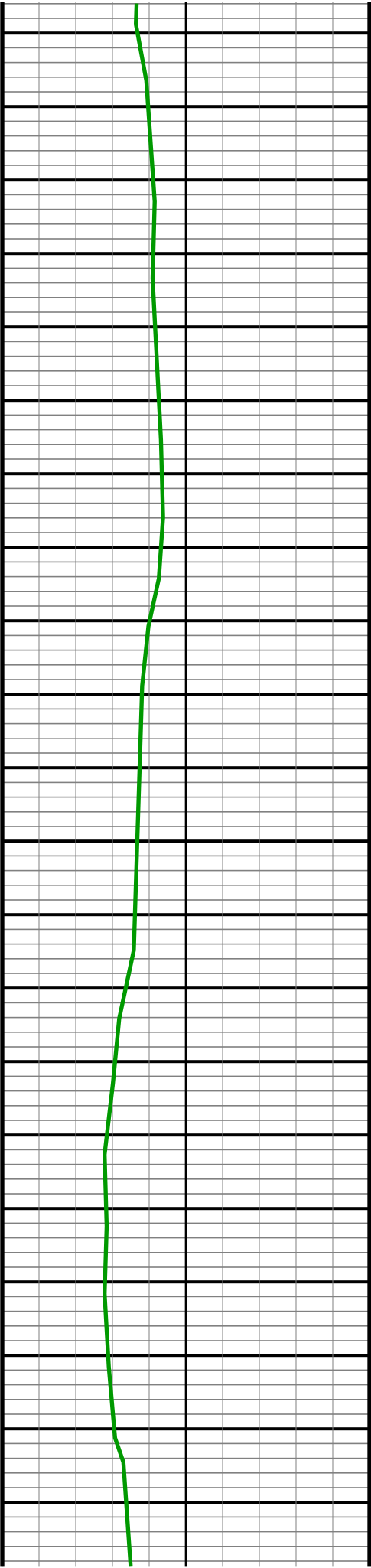


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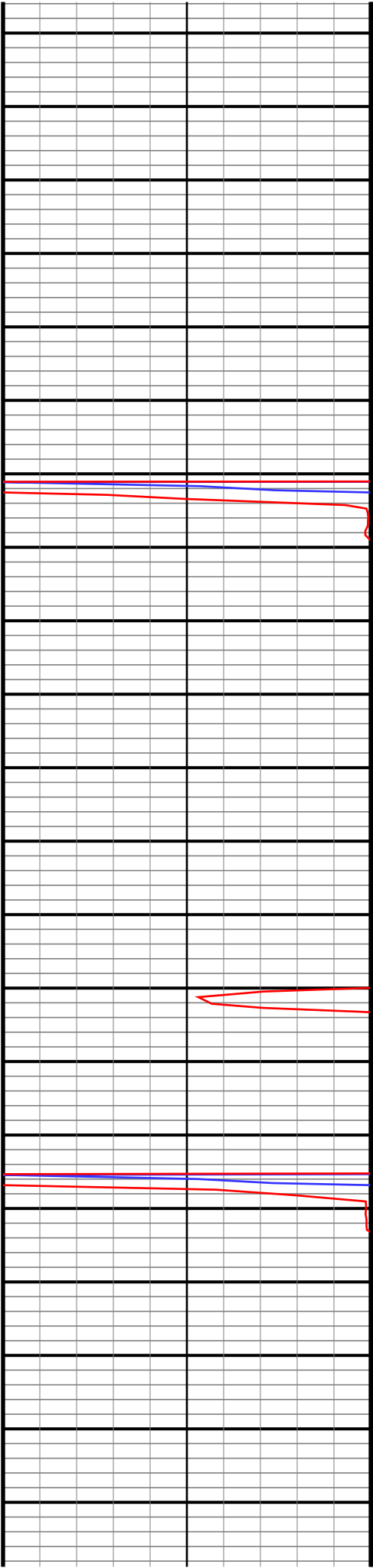


#51 MD(4853.00) Inc(35.1) Azm(266.7) TVD(4123.49)

#52 MD(4947.00) Inc(37.0) Azm(266.7) TVD(4199.49)



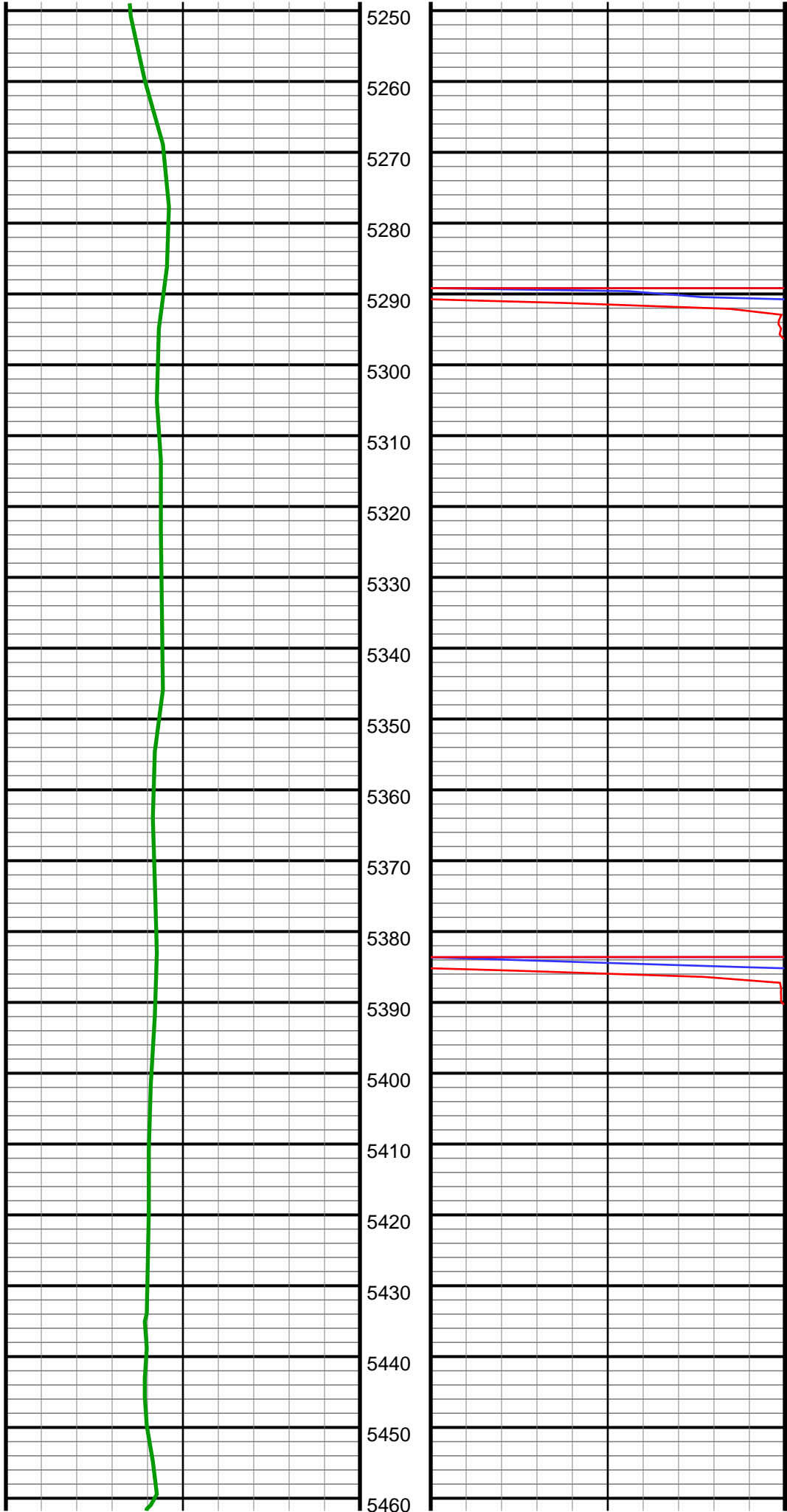
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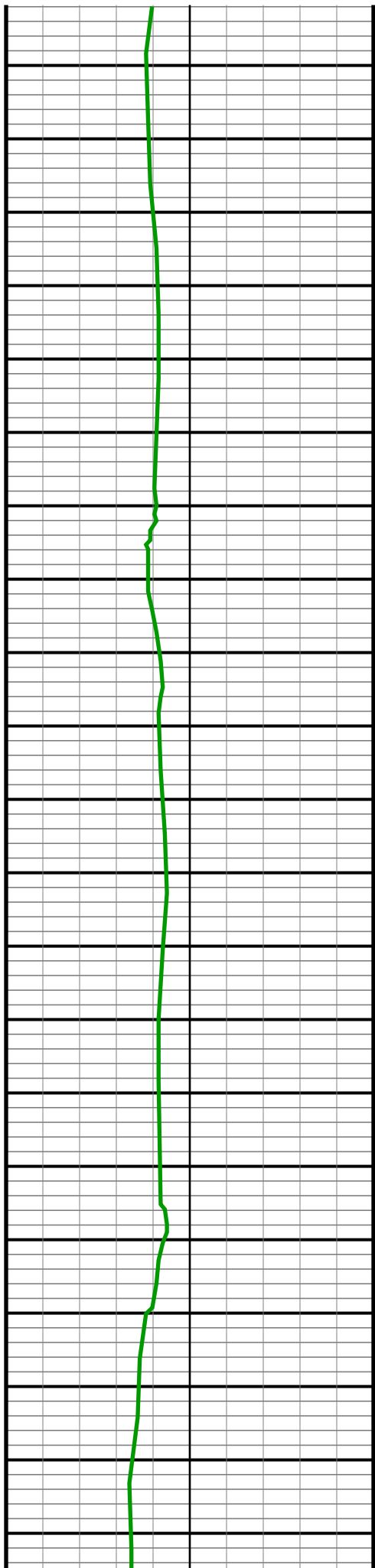
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#55 MD(5230.00) Inc(35.0) Azm(265.2) TVD(4427.65)



#56 MD(5324.00) Inc(32.7) Azm(264.0) TVD(4505.71)

#57 MD(5419.00) Inc(29.1) Azm(261.7) TVD(4587.22)



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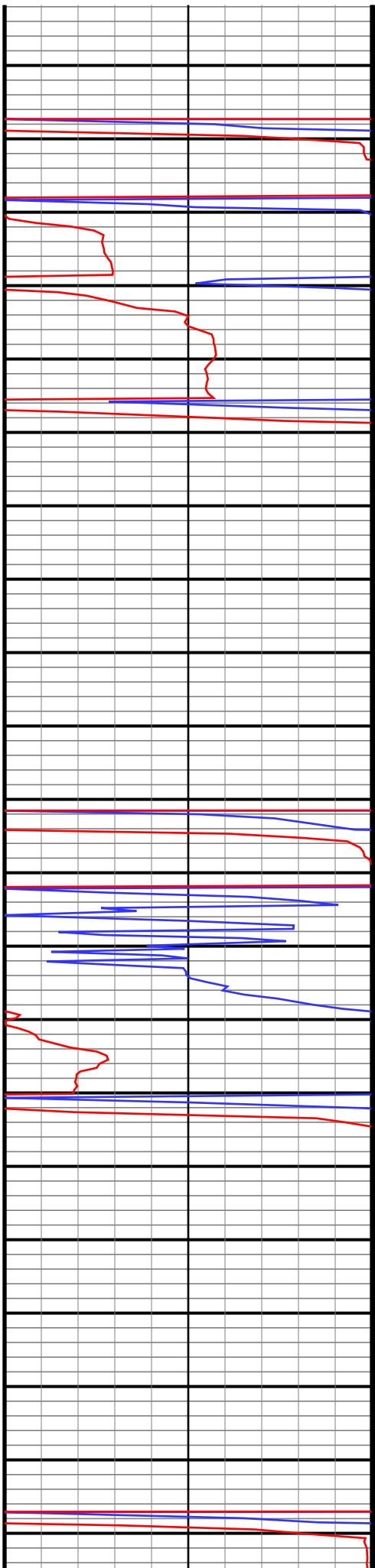
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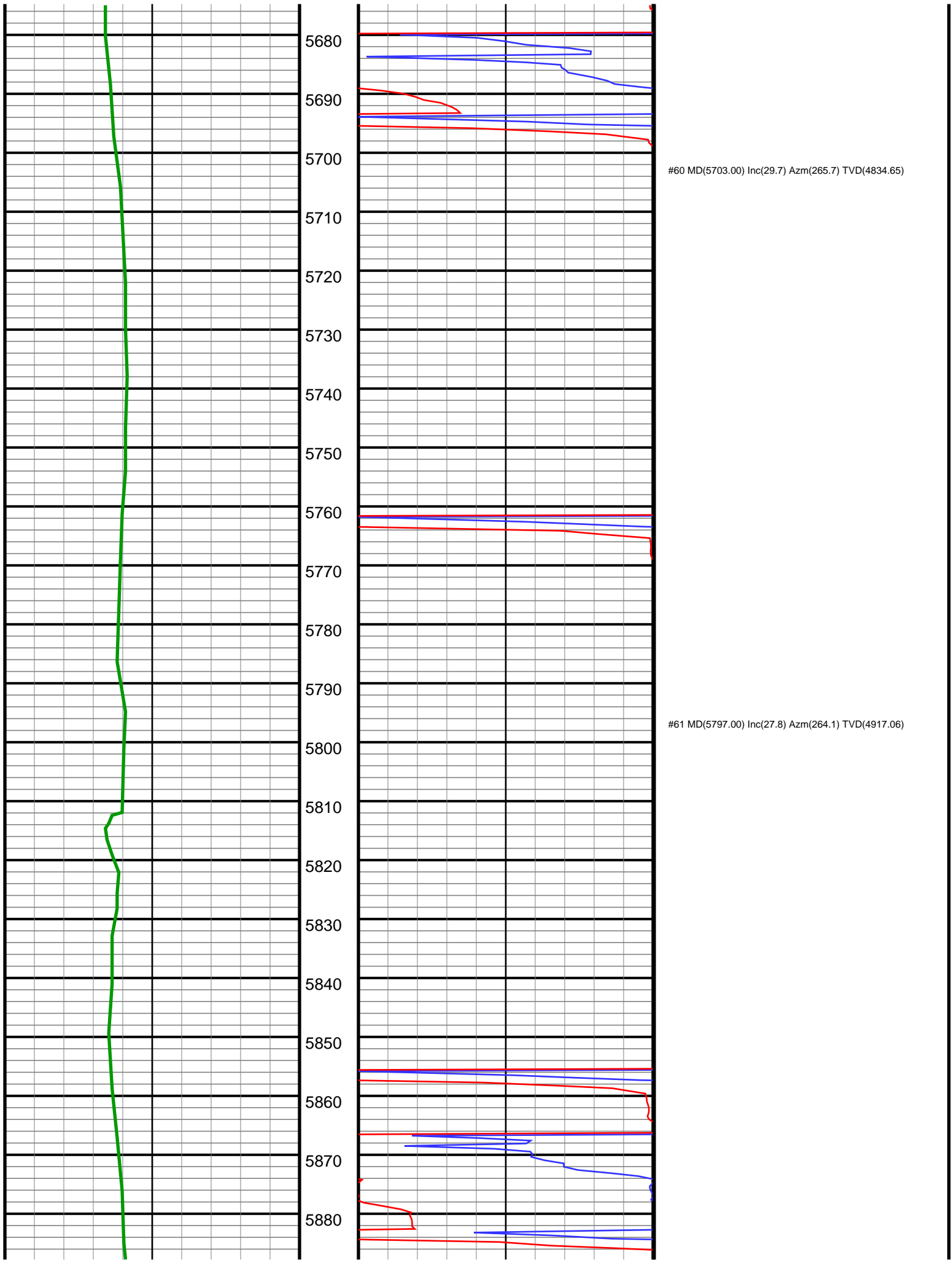
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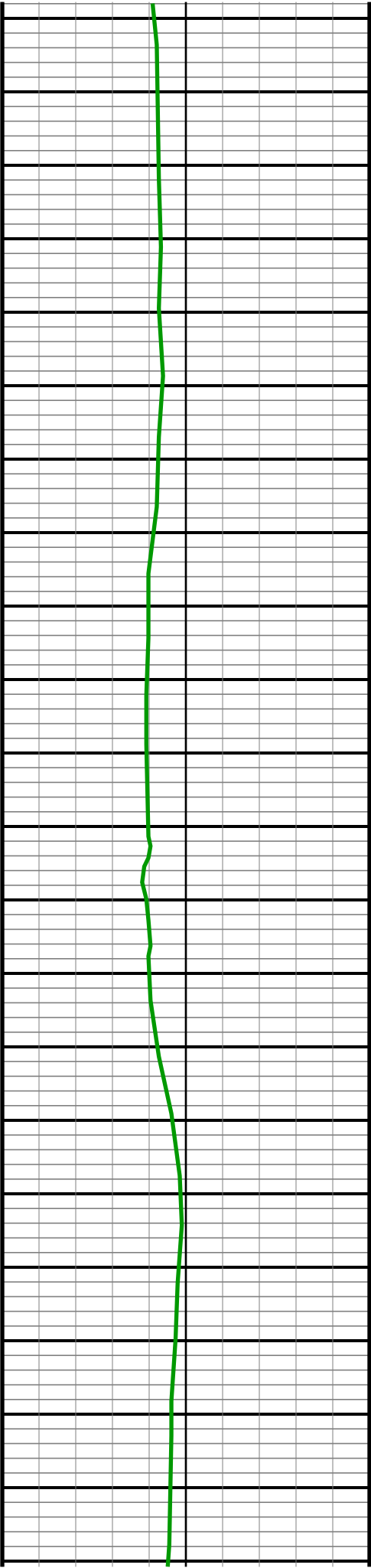
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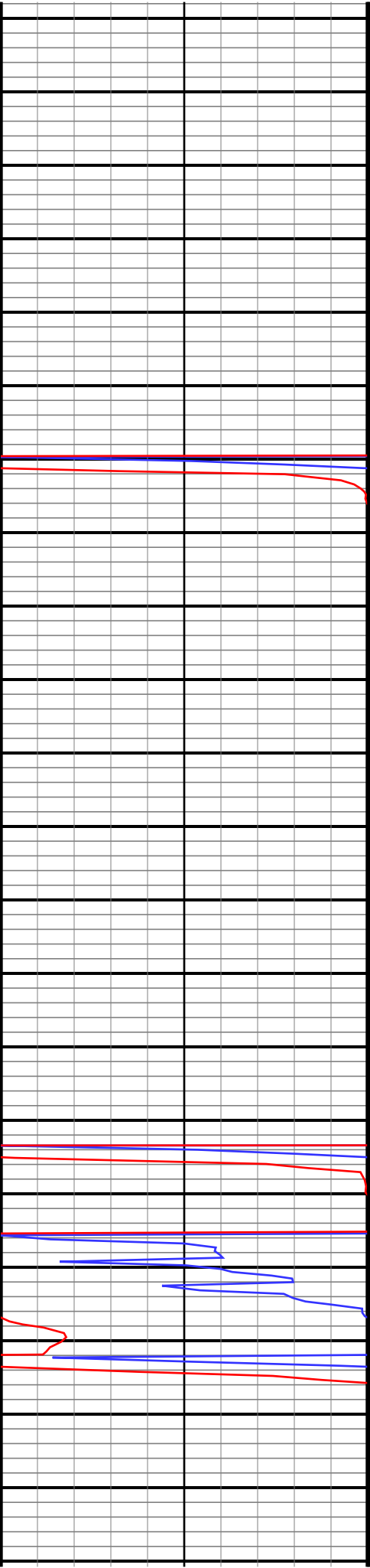
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#59 MD(5608.00) Inc(29.9) Azm(262.6) TVD(4752.20)





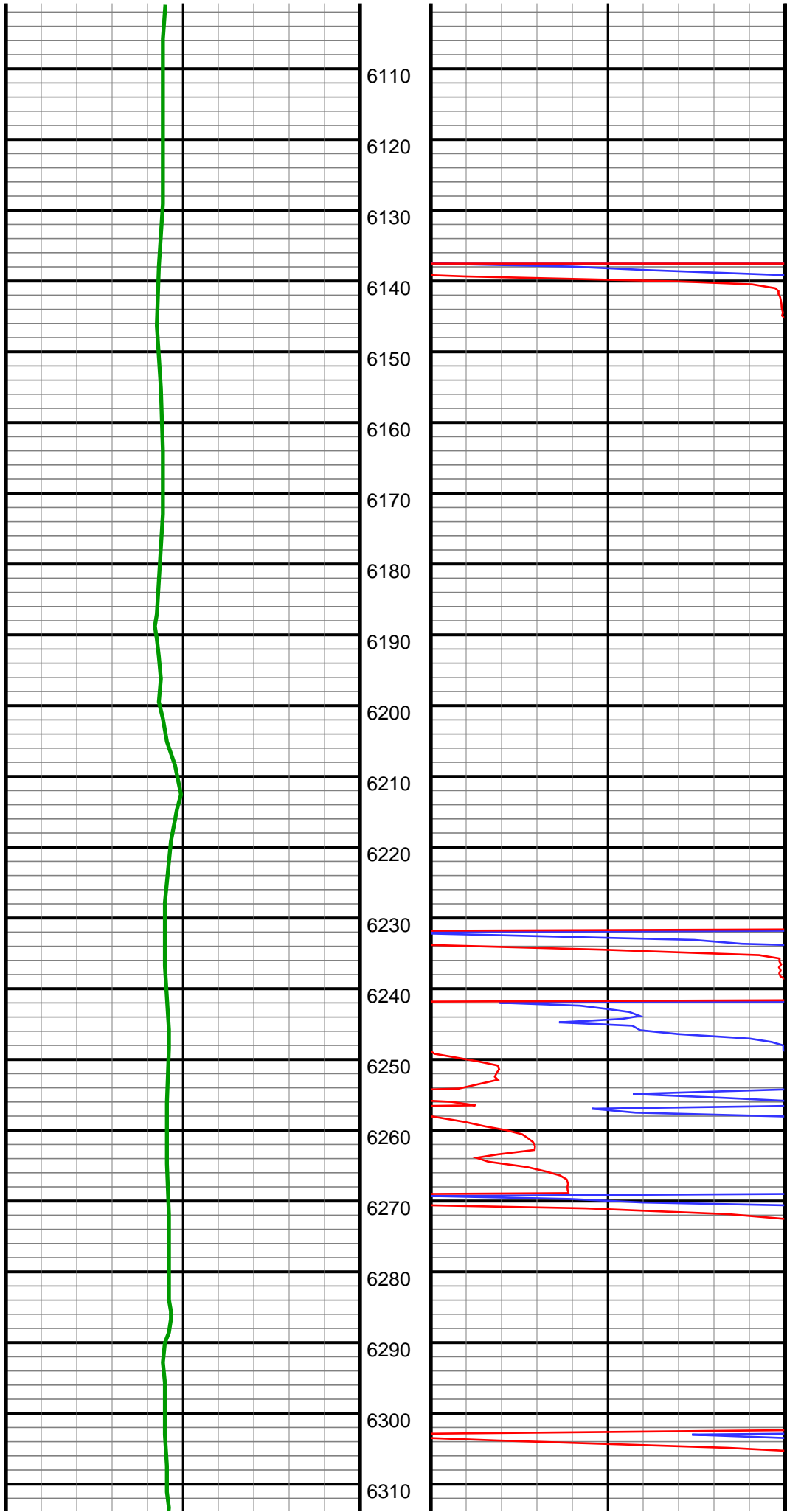
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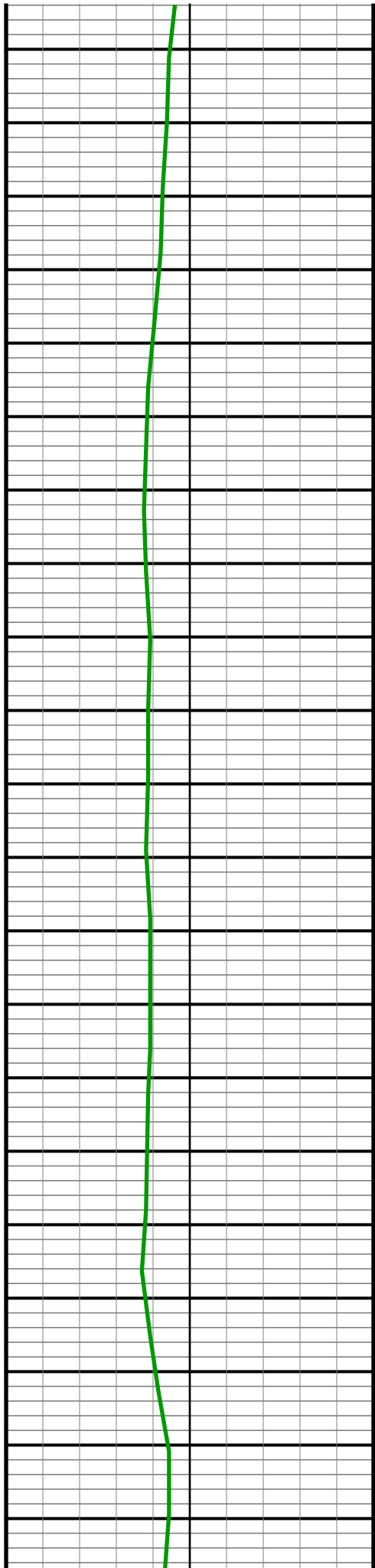
#63 MD(5986.00) Inc(21.4) Azm(266.5) TVD(5087.85)

#64 MD(6080.00) Inc(18.3) Azm(267.1) TVD(5176.26)



#65 MD(6175.00) Inc(14.3) Azm(263.9) TVD(5267.42)

#66 MD(6269.00) Inc(12.8) Azm(267.0) TVD(5358.80)



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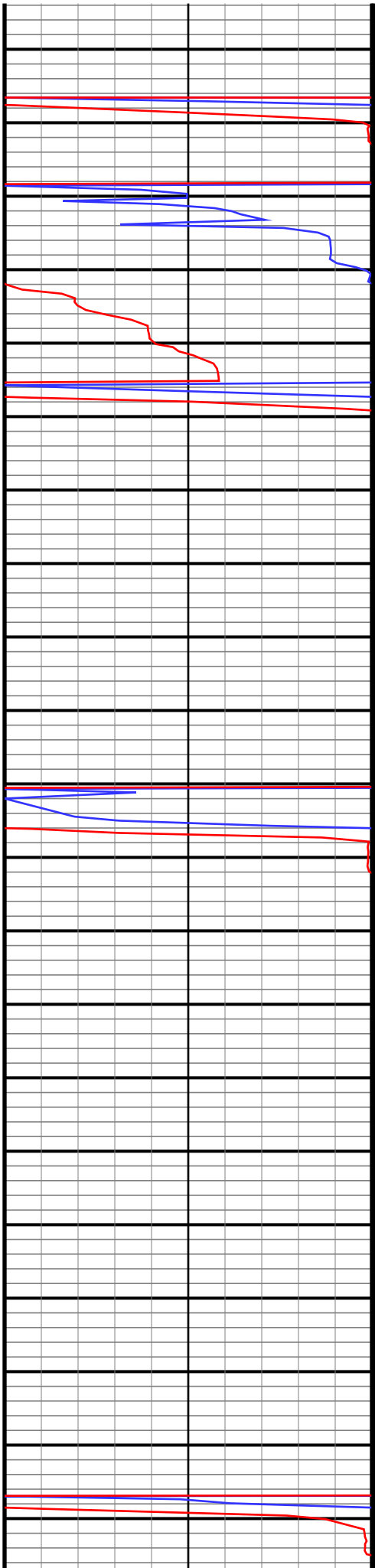
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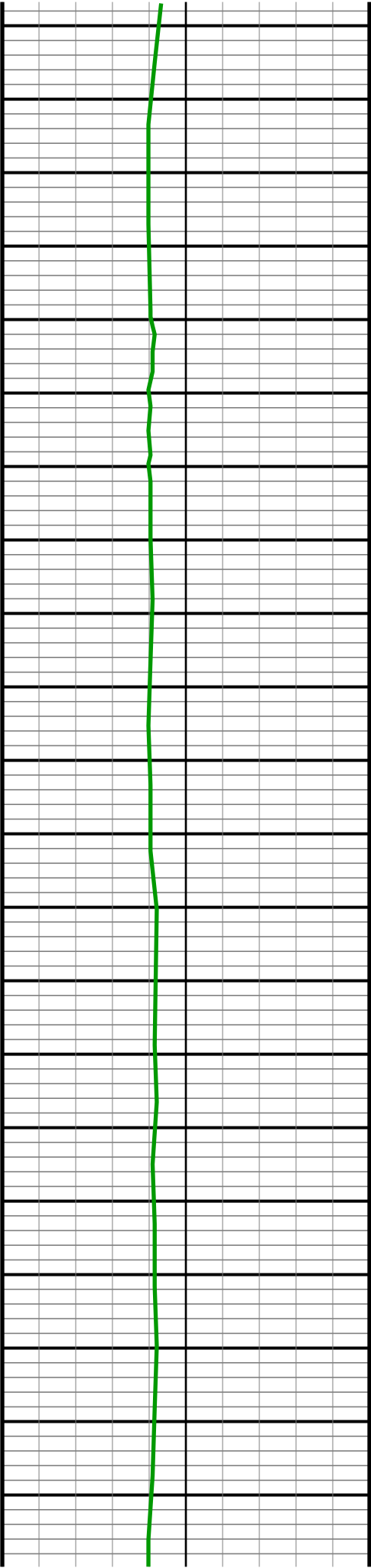
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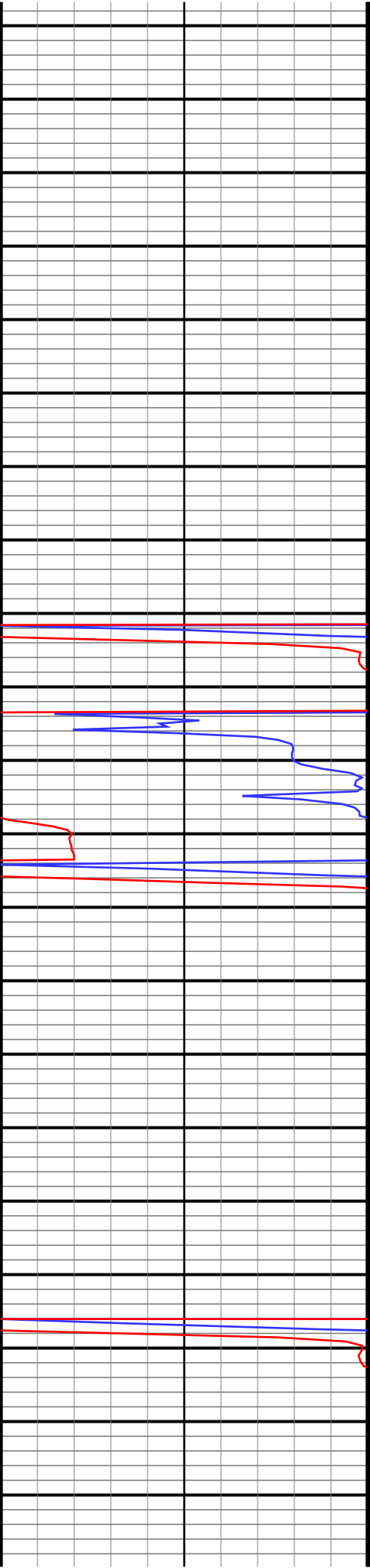


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#68 MD(6459.00) Inc(11.5) Azm(270.0) TVD(5543.95)

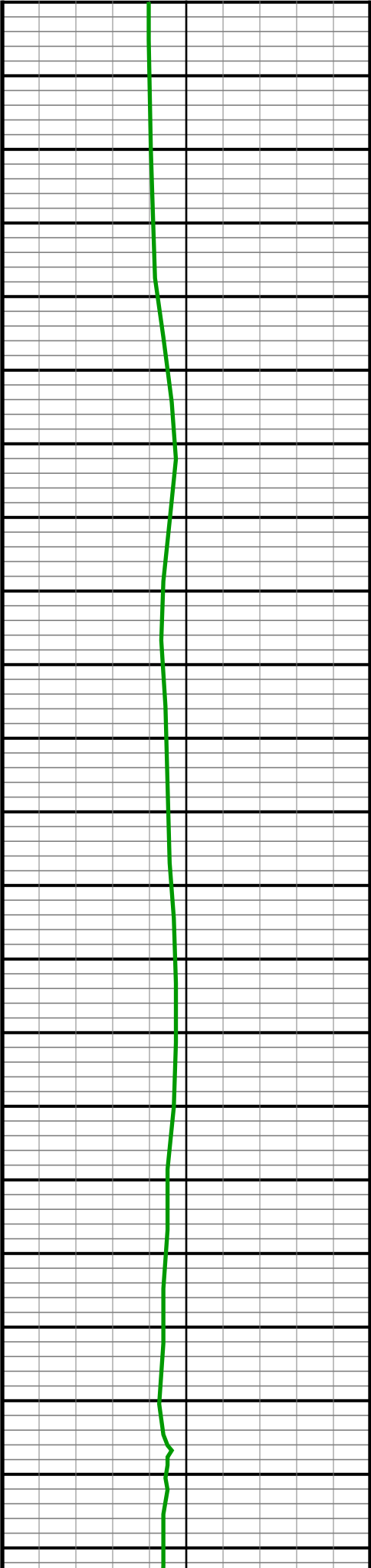


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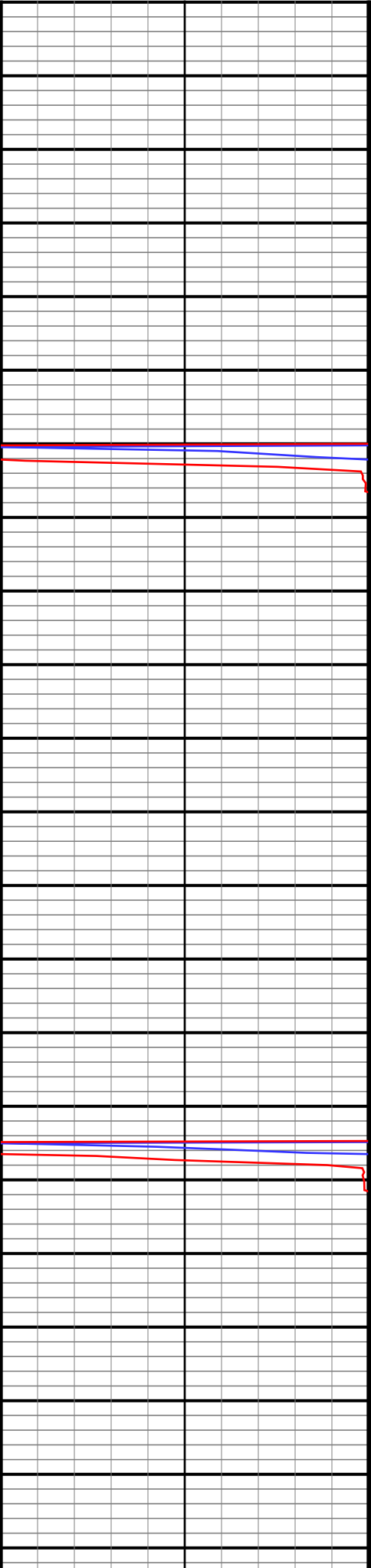


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#70 MD(6648.00) Inc(9.1) Azm(276.5) TVD(5730.29)



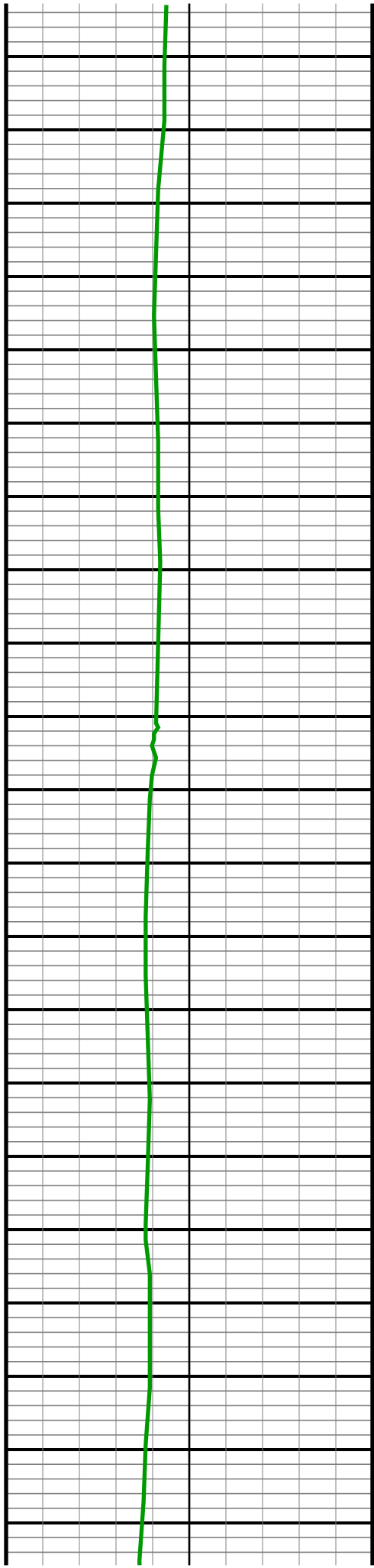
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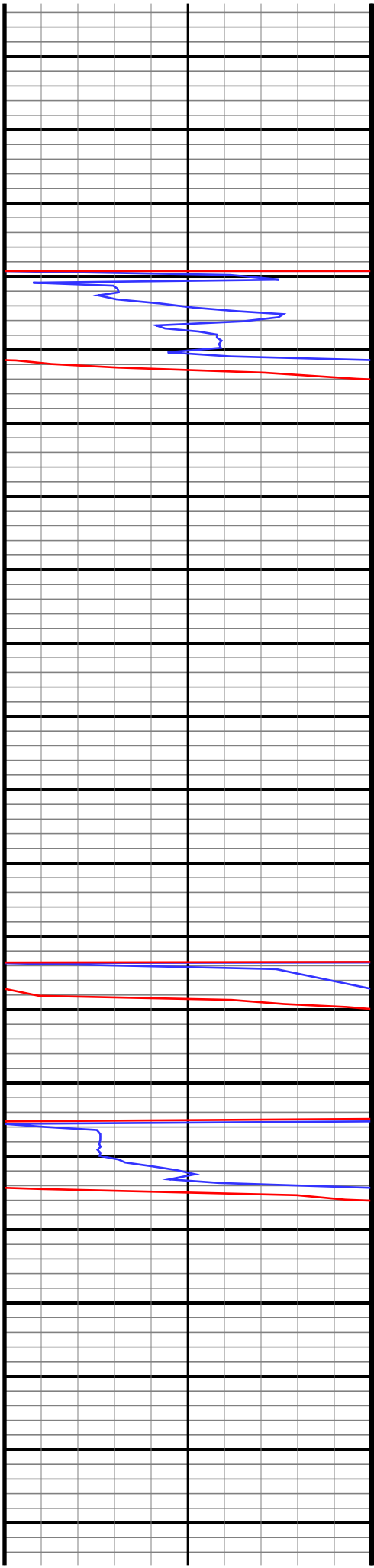
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#72 MD(6838.00) Inc(5.4) Azm(269.6) TVD(5918.64)

#73 MD(6933.00) Inc(4.0) Azm(260.4) TVD(6013.32)

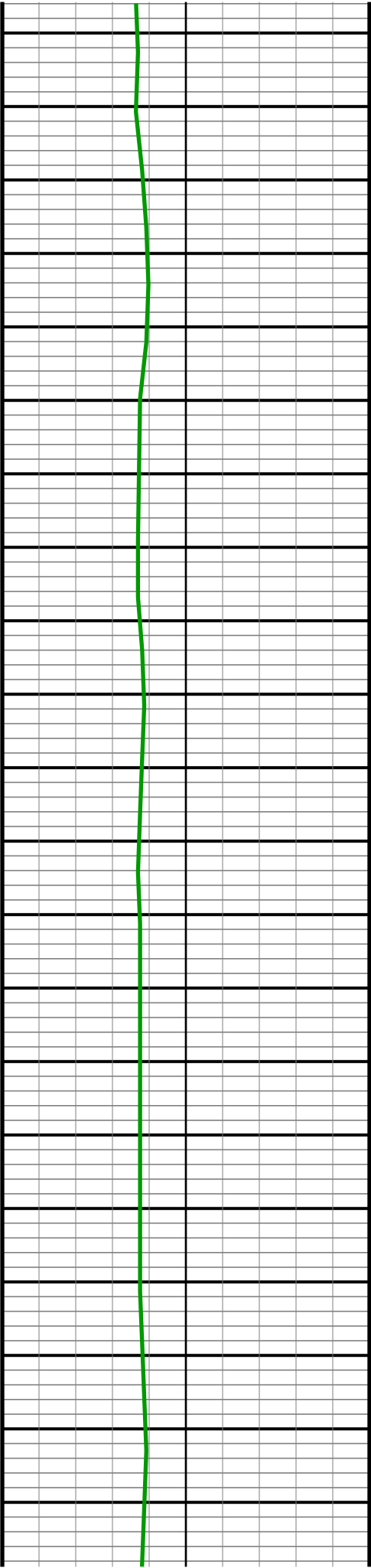


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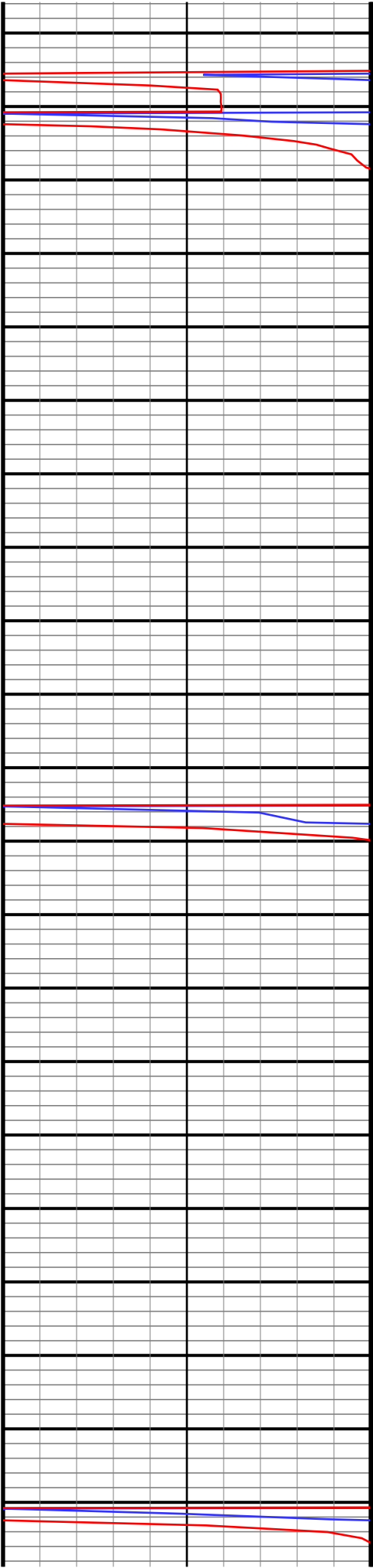


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#75 MD(7122.00) Inc(0.6) Azm(262.9) TVD(6202.16)

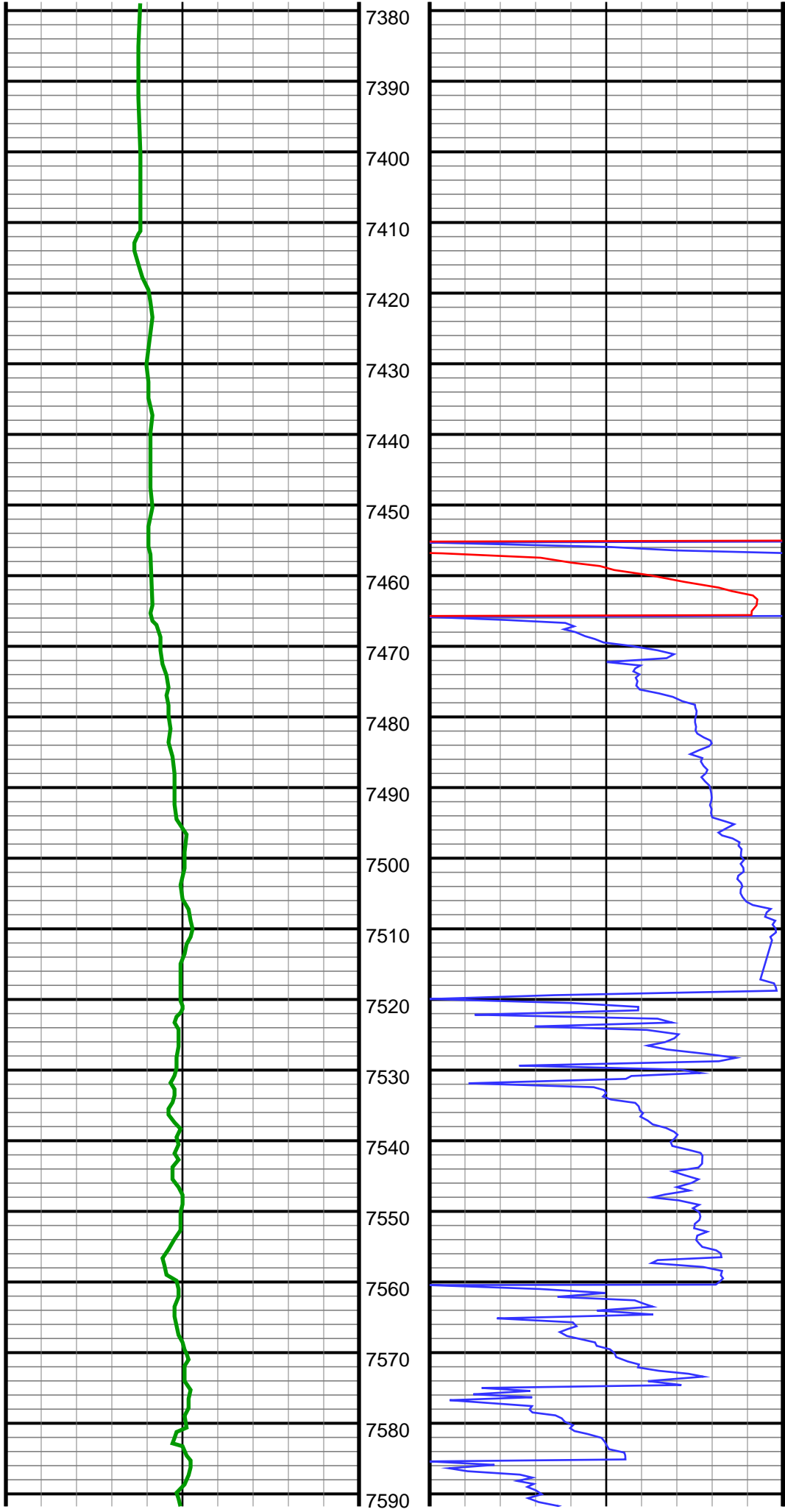


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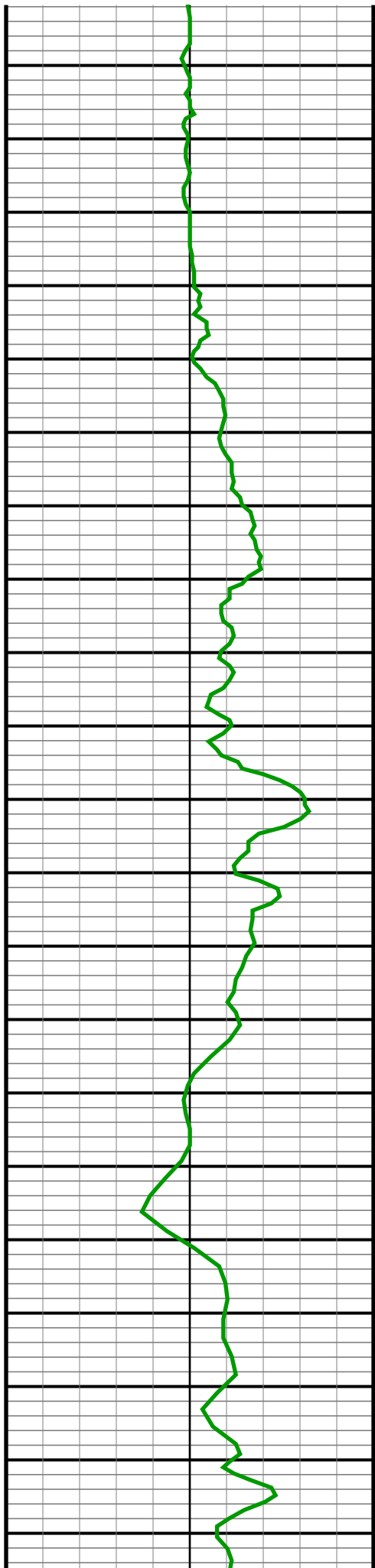
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#77 MD(7312.00) Inc(0.5) Azm(123.5) TVD(6392.16)

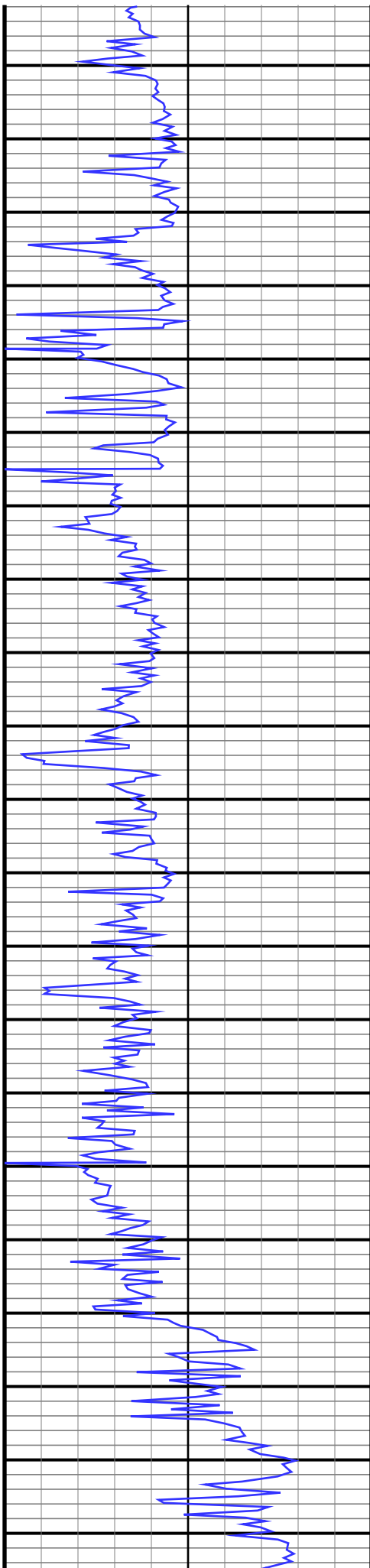


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#79 MD(7501.00) Inc(3.3) Azm(190.8) TVD(6581.10)



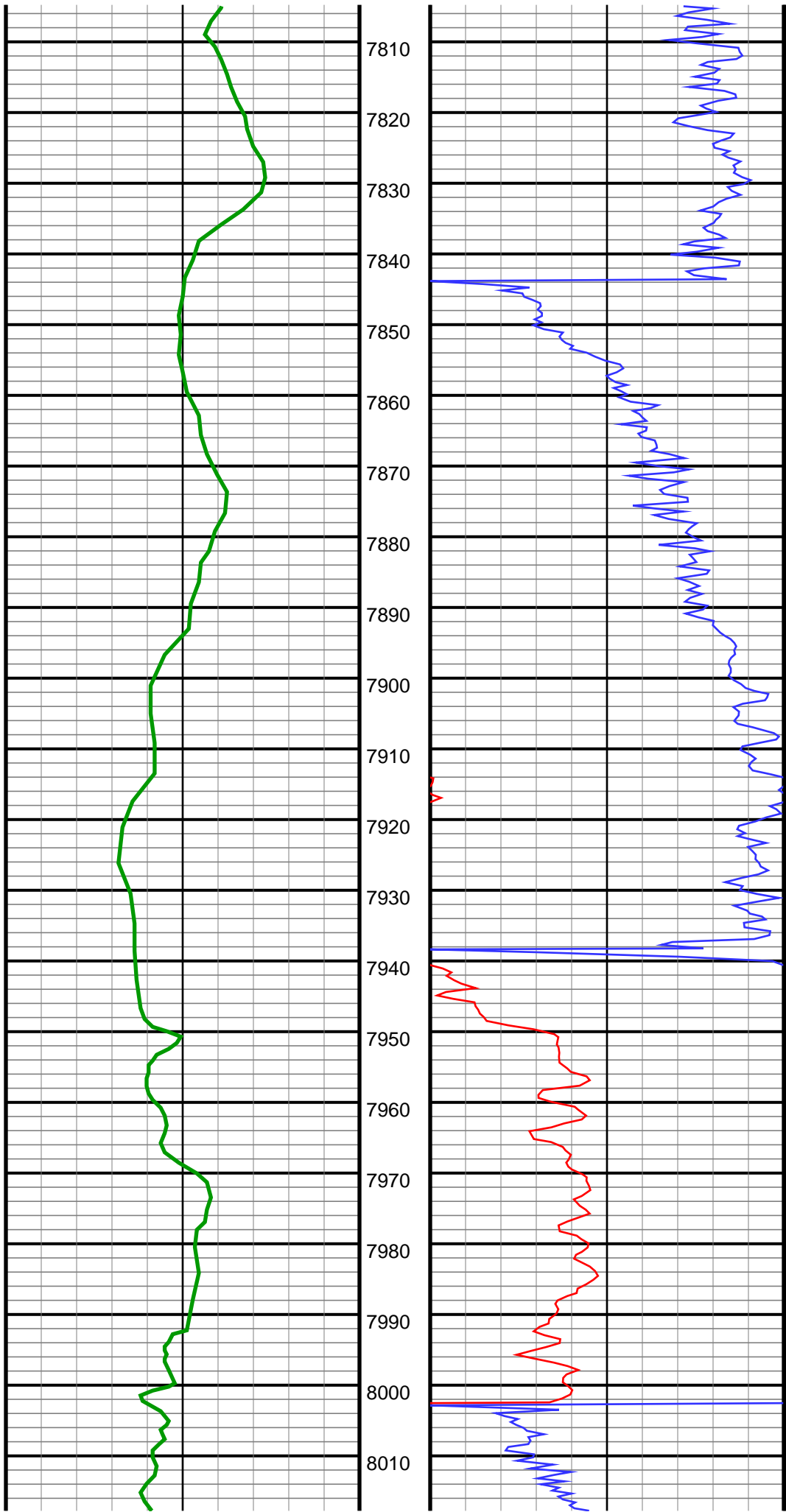
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#80 MD(7596.00) Inc(10.5) Azm(185.1) TVD(6675.35)

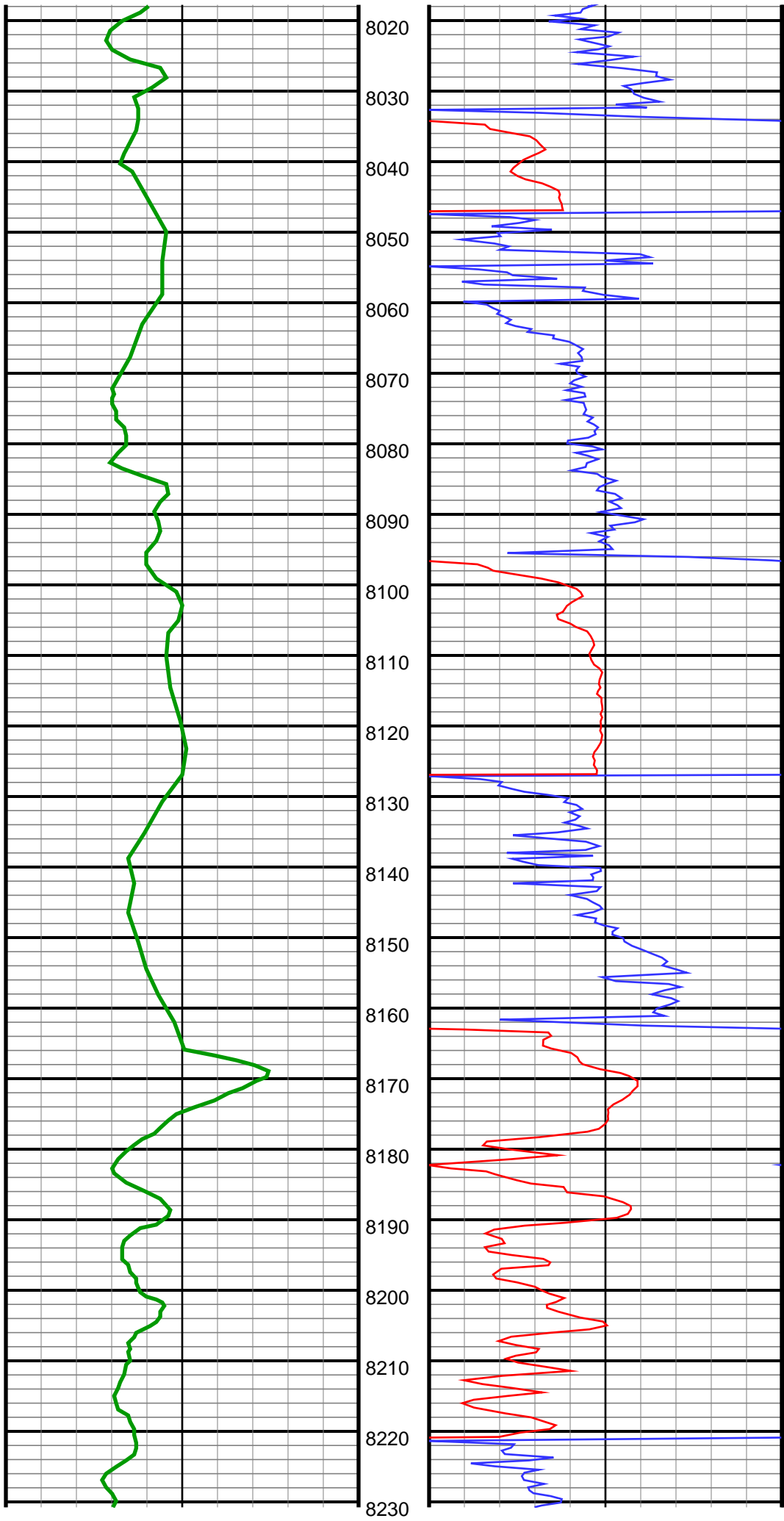
#81 MD(7691.00) Inc(20.4) Azm(188.0) TVD(6766.81)

#82 MD(7785.00) Inc(31.7) Azm(188.1) TVD(6851.12)



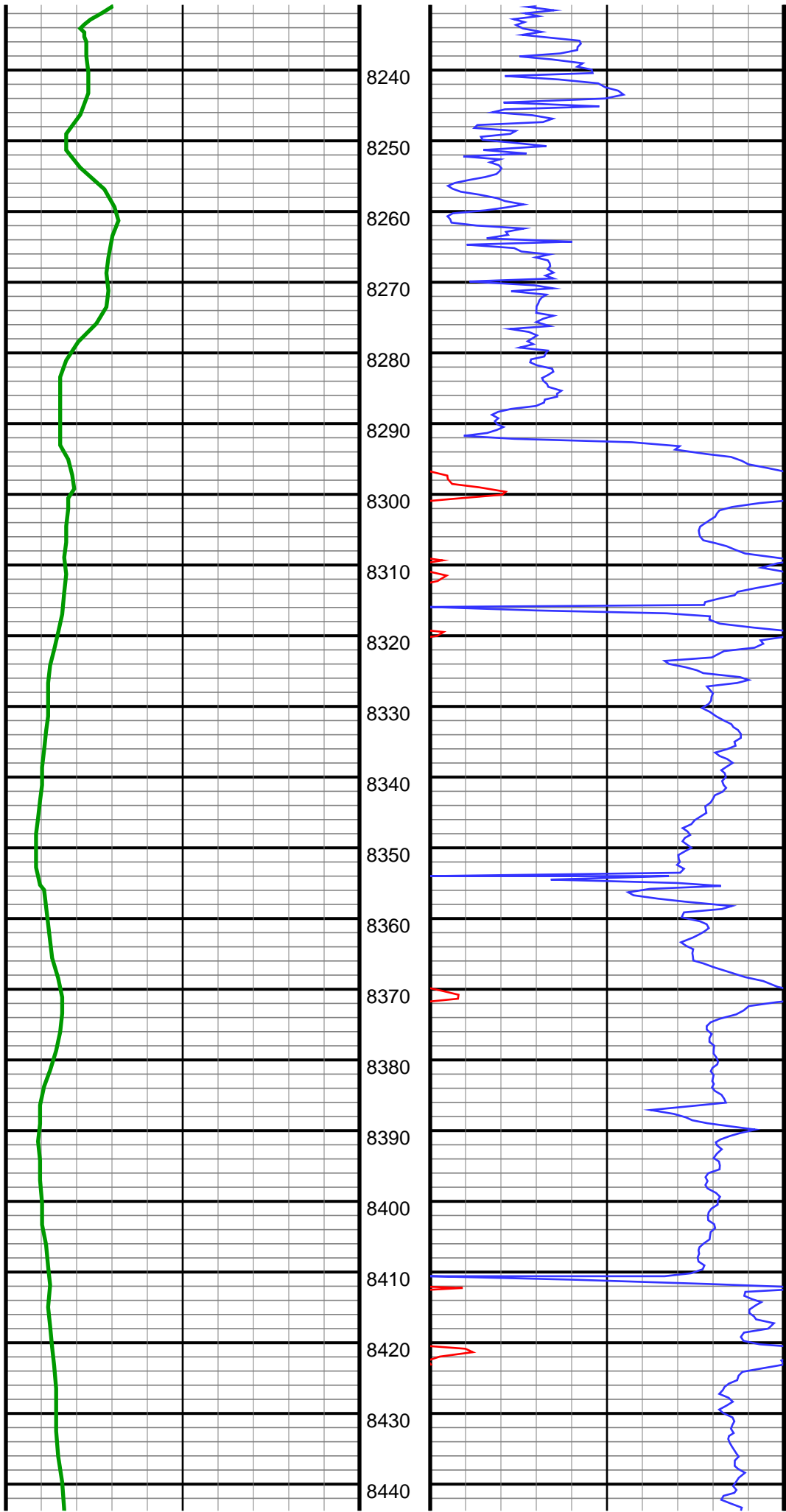
#83 MD(7879.00) Inc(45.1) Azm(181.8) TVD(6924.65)

#84 MD(7974.00) Inc(55.7) Azm(175.0) TVD(6985.16)



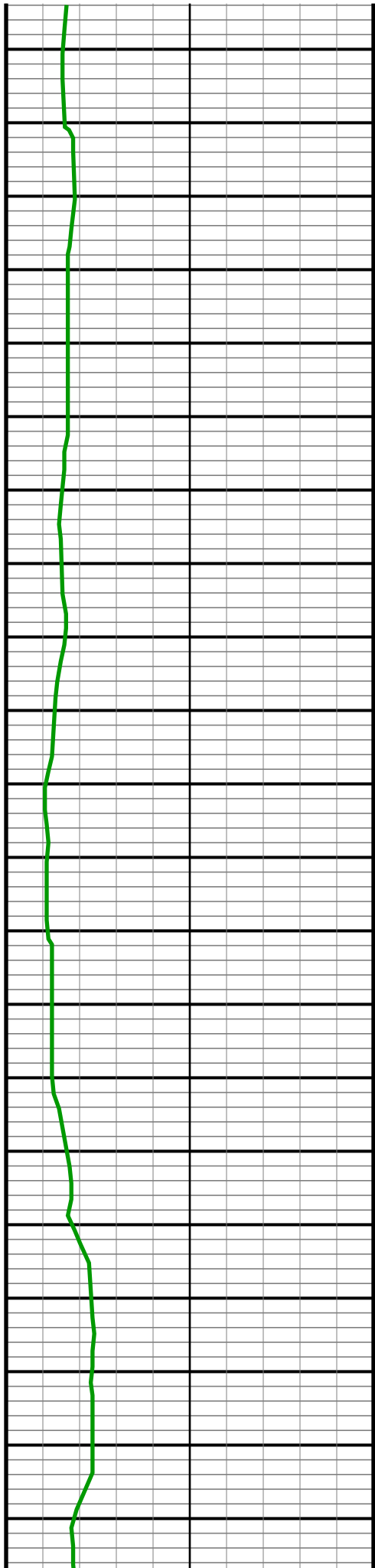
#85 MD(8069.00) Inc(62.2) Azm(179.1) TVD(7034.15)

#86 MD(8163.00) Inc(70.8) Azm(182.3) TVD(7071.60)

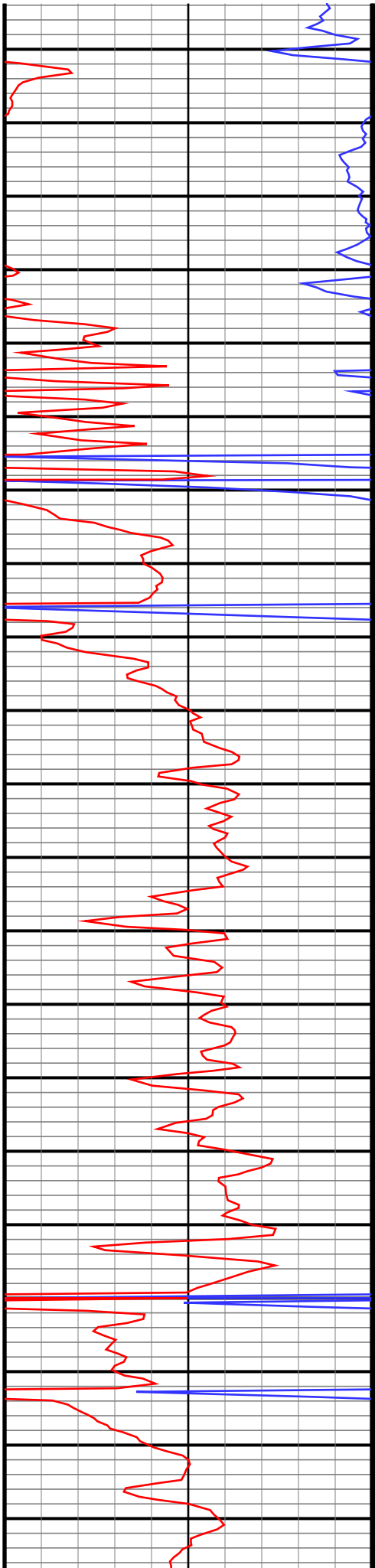


#87 MD(8257.00) Inc(79.2) Azm(182.0) TVD(7095.91)

#88 MD(8352.00) Inc(86.3) Azm(182.9) TVD(7107.89)

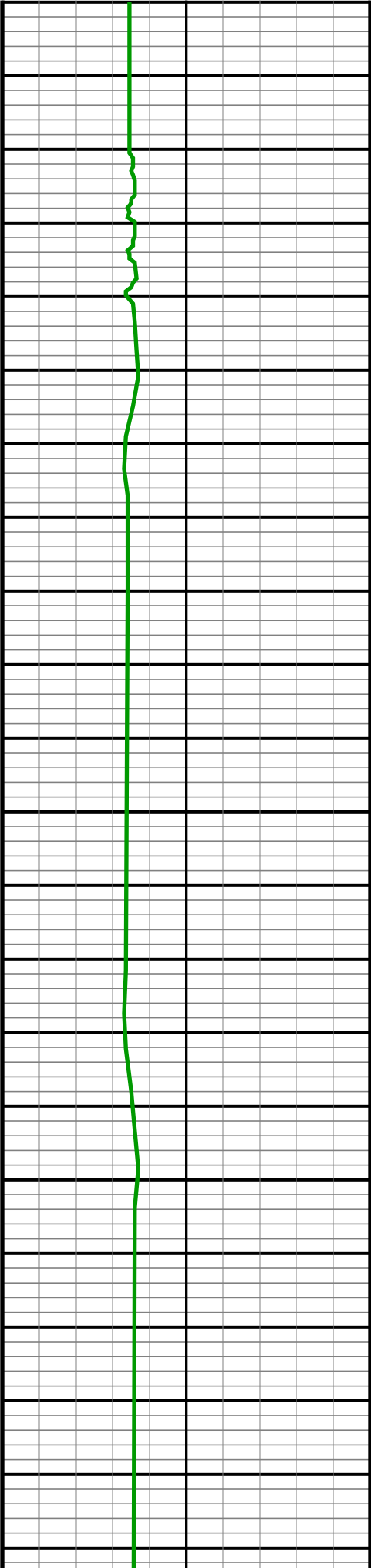


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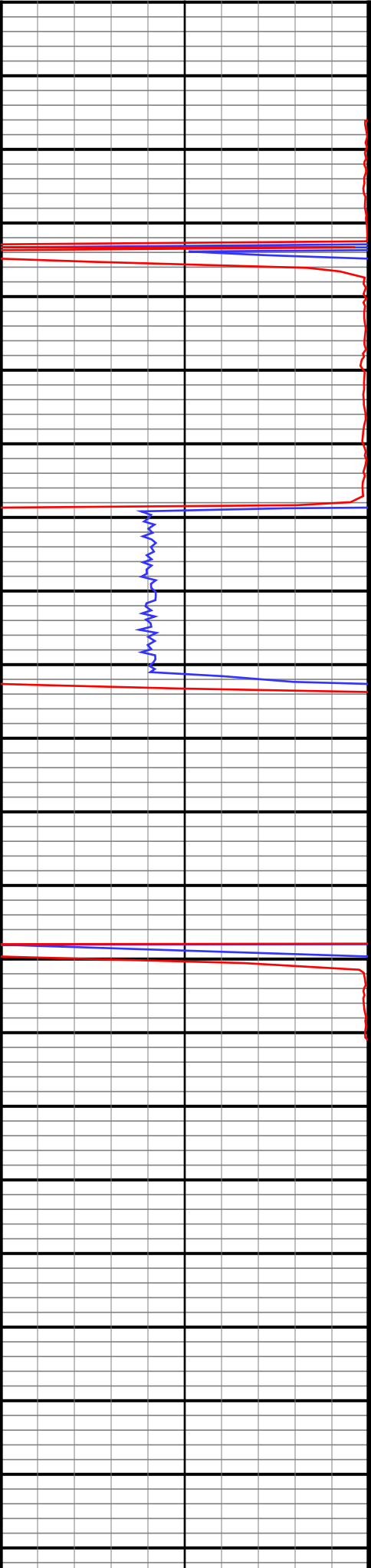


#89 MD(8446.00) Inc(88.5) Azm(182.8) TVD(7112.16)

#90 MD(8567.00) Inc(89.2) Azm(182.6) TVD(7114.59)

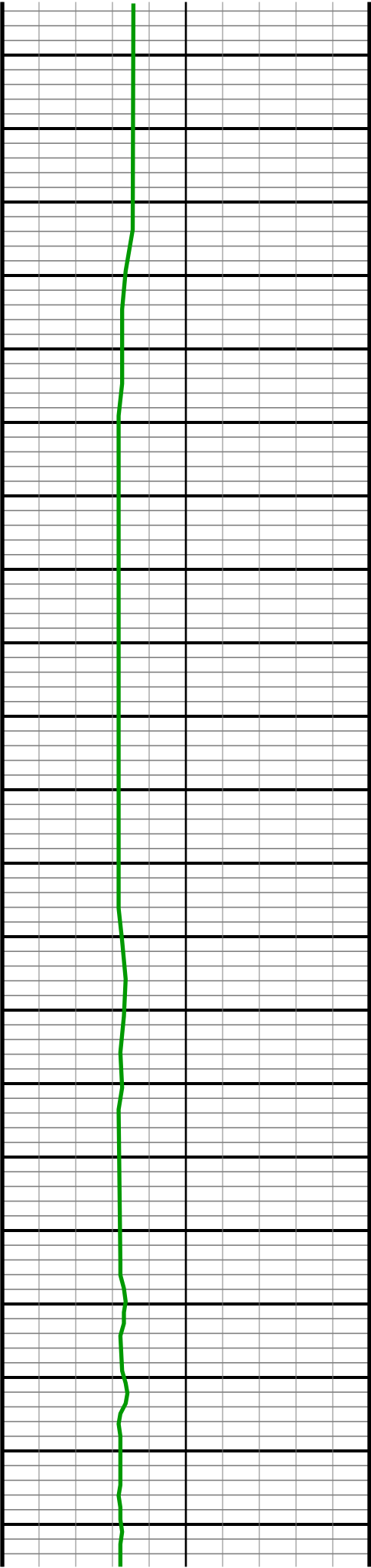


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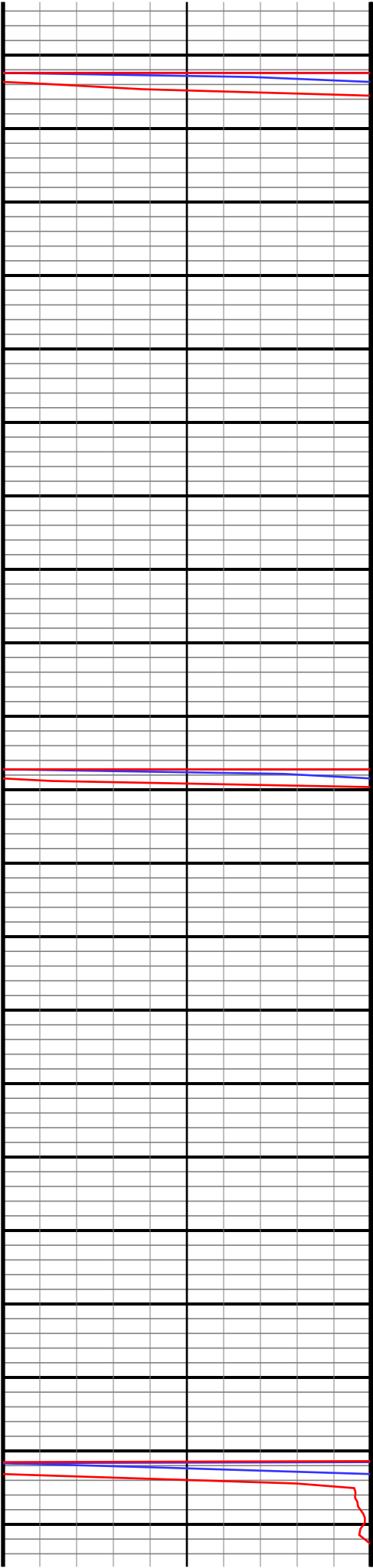


#94 MD(8944.00) Inc(90.2) Azm(178.1) TVD(7123.81)

#95 MD(9039.00) Inc(90.2) Azm(177.9) TVD(7123.48)

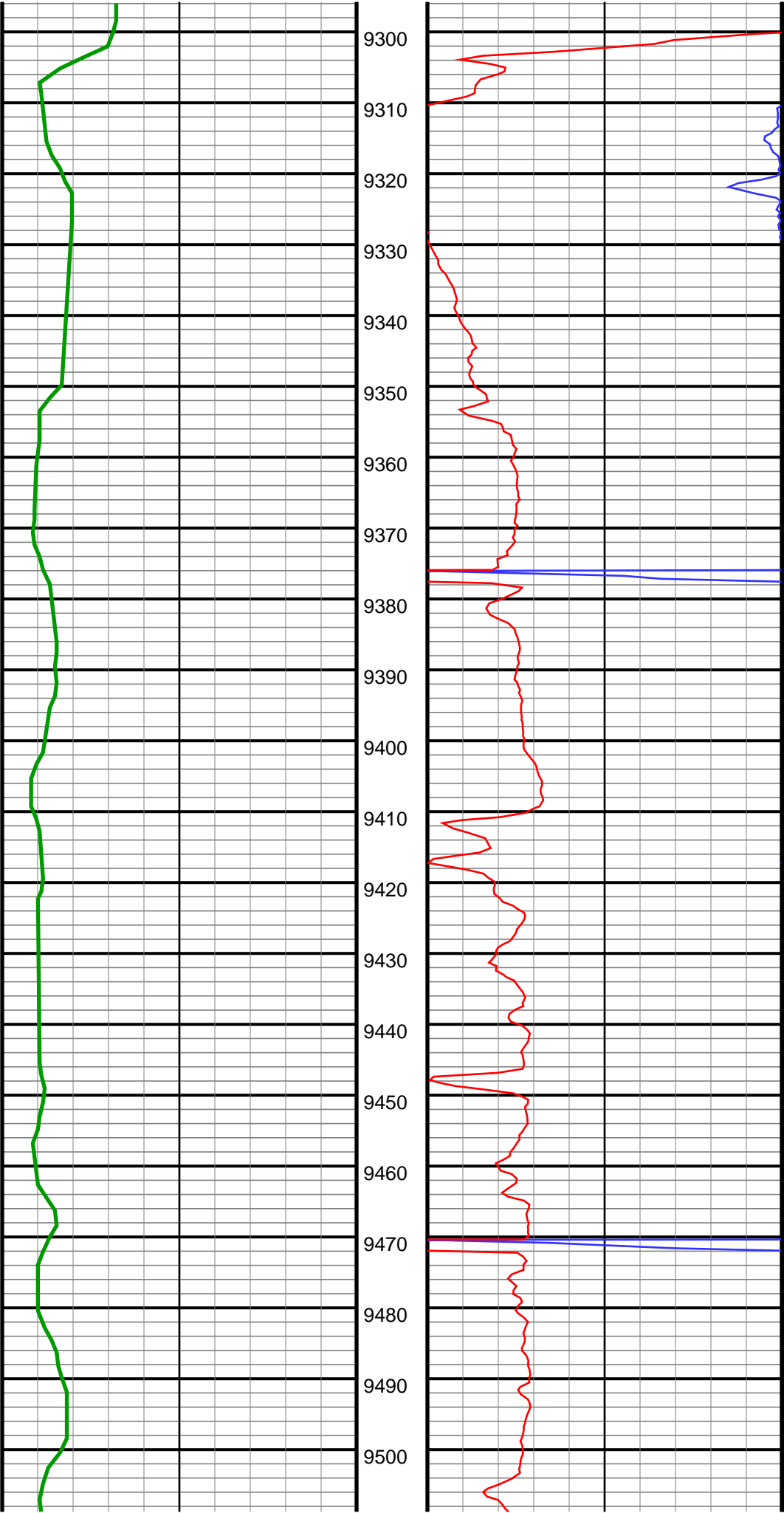


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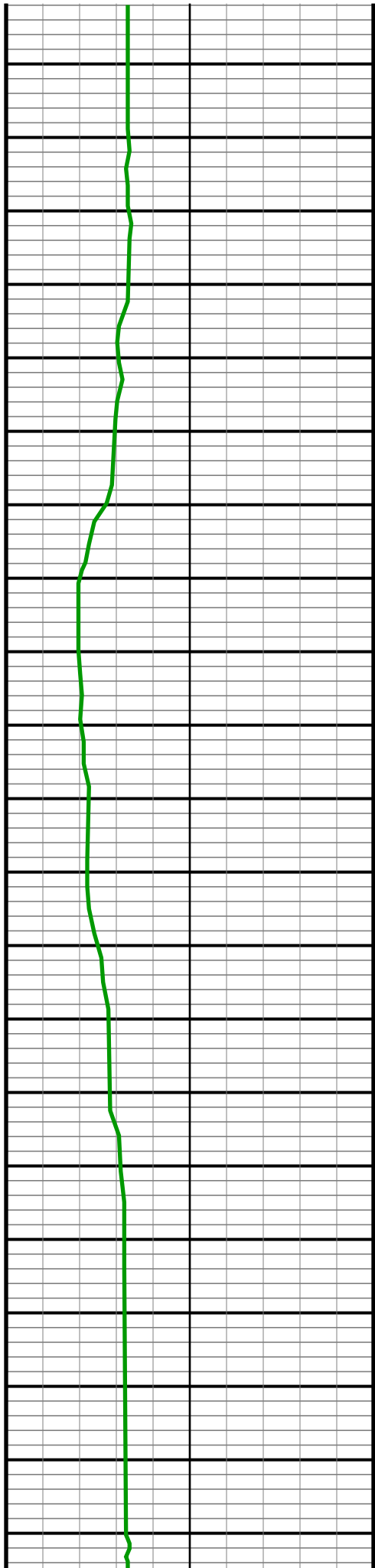
#96 MD(9134.00) Inc(90.3) Azm(178.3) TVD(7123.06)

#97 MD(9228.00) Inc(90.2) Azm(178.7) TVD(7122.65)

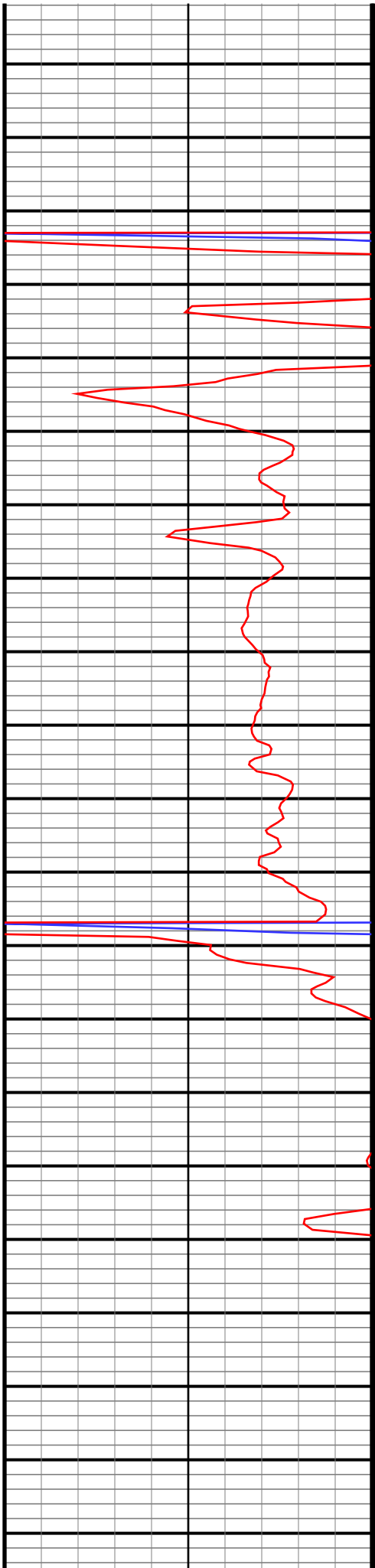


#98 MD(9322.00) Inc(89.9) Azm(178.6) TVD(7122.57)

#99 MD(9417.00) Inc(89.4) Azm(178.9) TVD(7123.15)

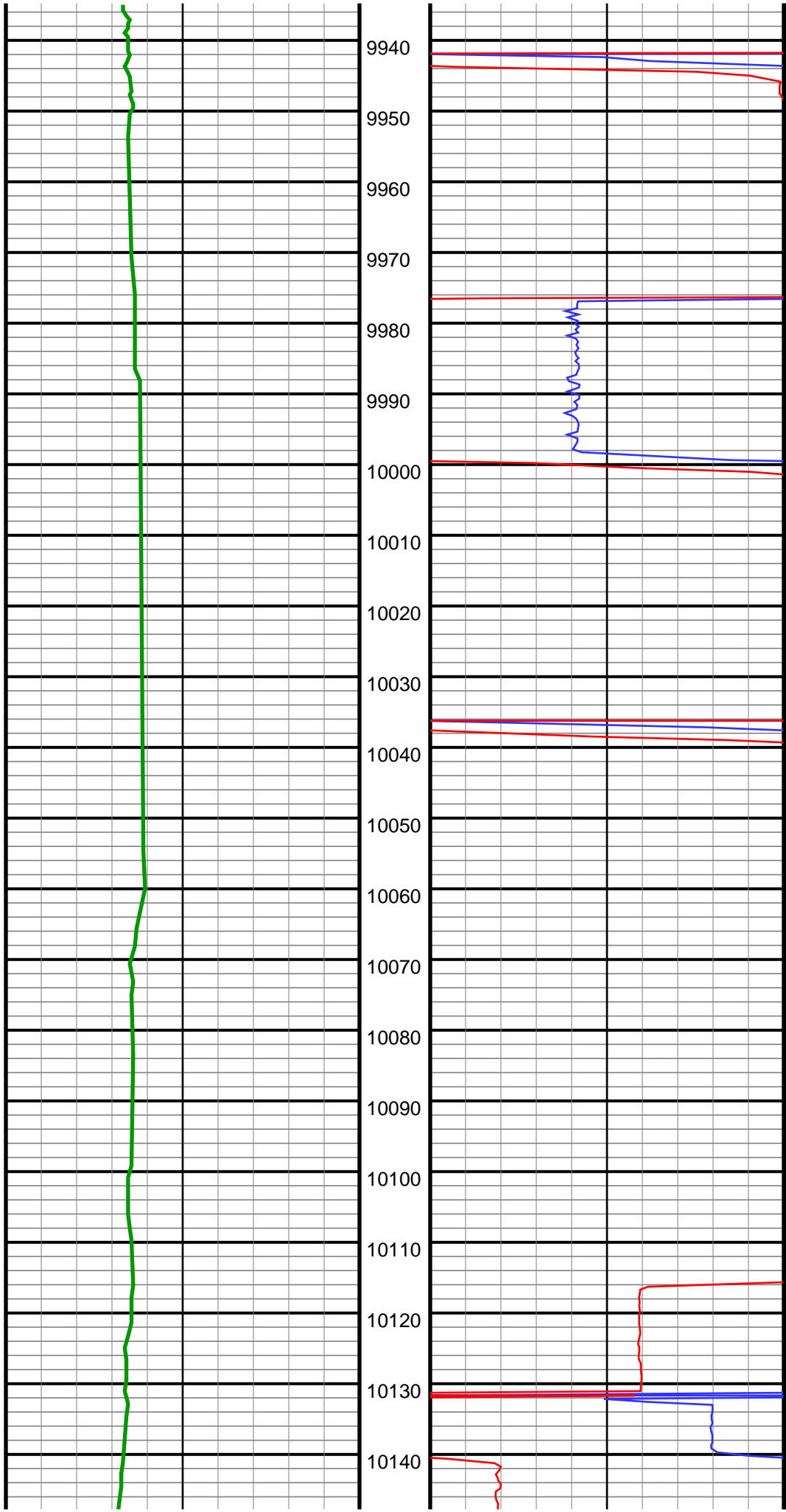


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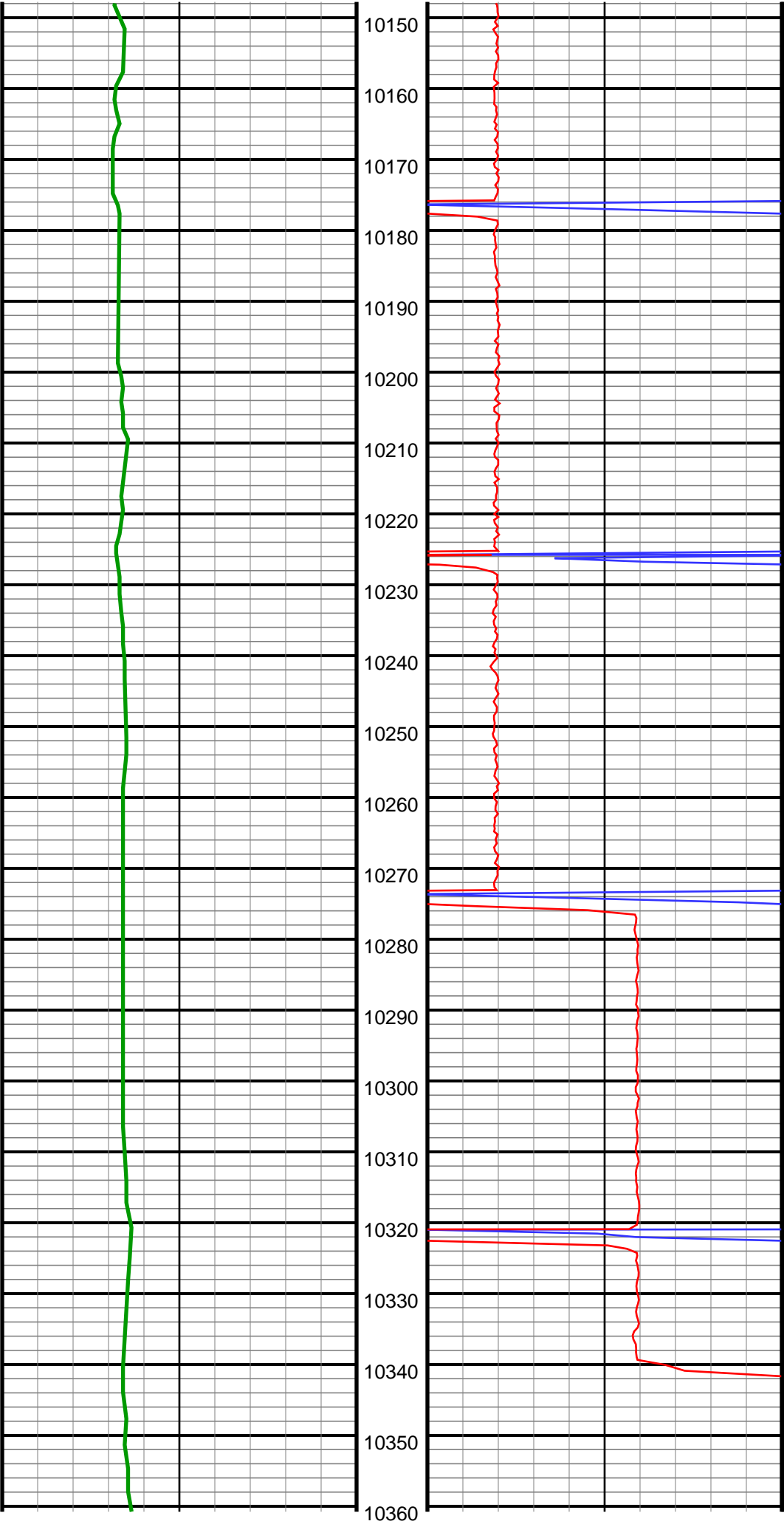
#103 MD(9794.00) Inc(89.4) Azm(175.7) TVD(7125.62)

#104 MD(9889.00) Inc(88.7) Azm(175.8) TVD(7127.19)



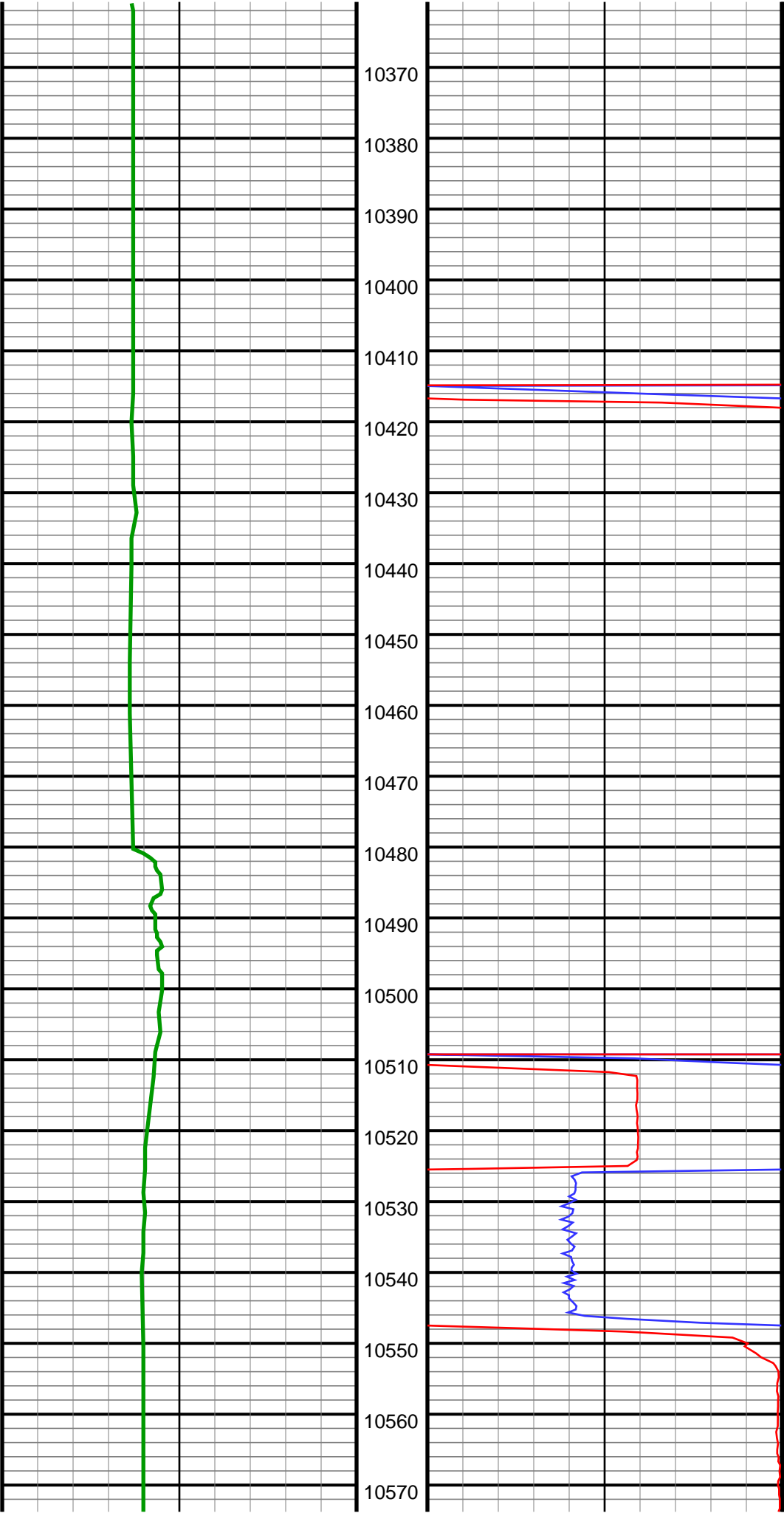
#105 MD(9984.00) Inc(89.2) Azm(175.4) TVD(7128.93)

#106 MD(10078.00) Inc(90.0) Azm(175.5) TVD(7129.59)



#107 MD(10172.00) Inc(90.2) Azm(175.8) TVD(7129.42)

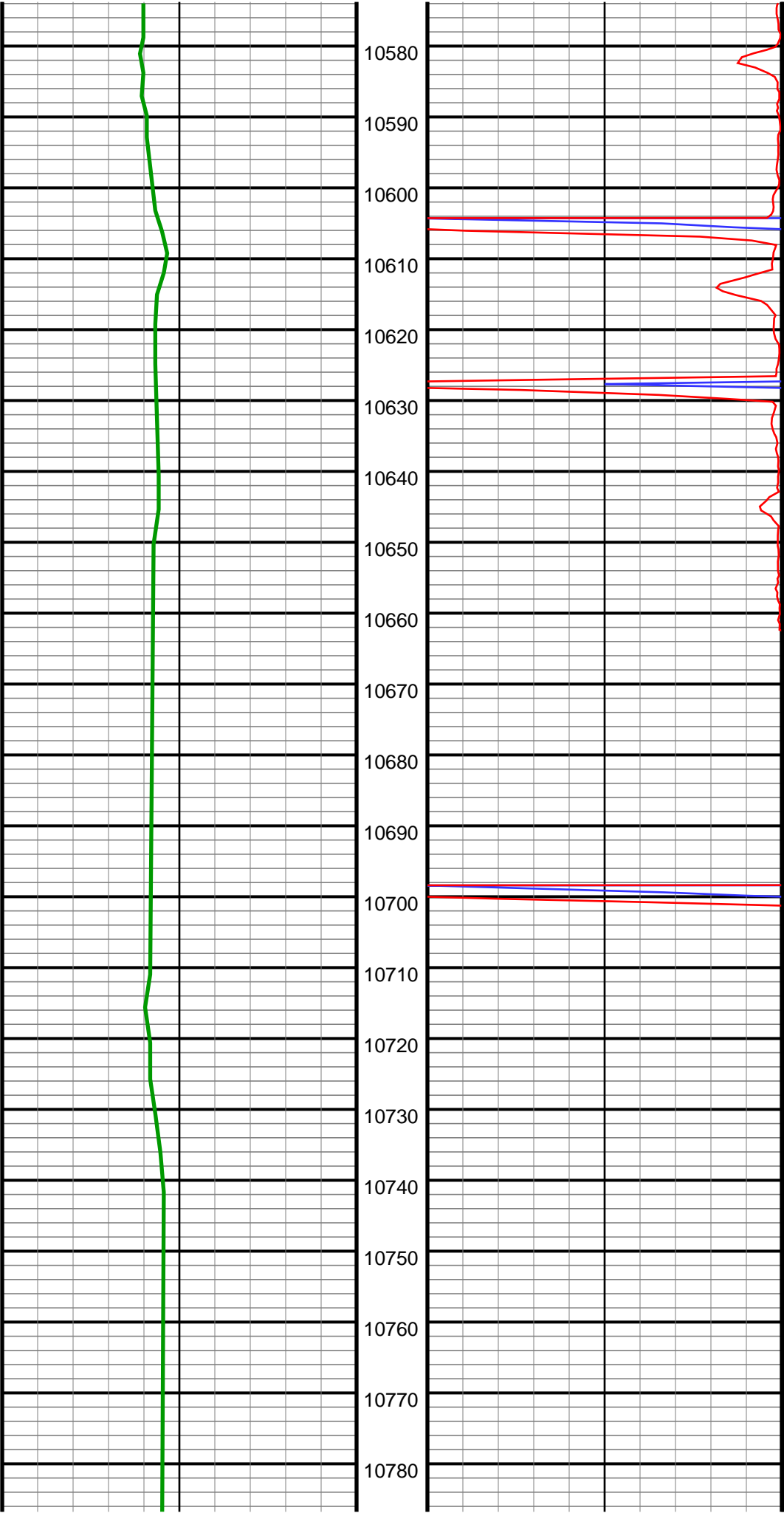
#108 MD(10267.00) Inc(90.1) Azm(178.0) TVD(7129.18)



#109 MD(10362.00) Inc(90.1) Azm(178.4) TVD(7129.01)

#110 MD(10457.00) Inc(90.1) Azm(178.4) TVD(7128.84)

#111 MD(10551.00) Inc(89.9) Azm(179.5) TVD(7128.84)



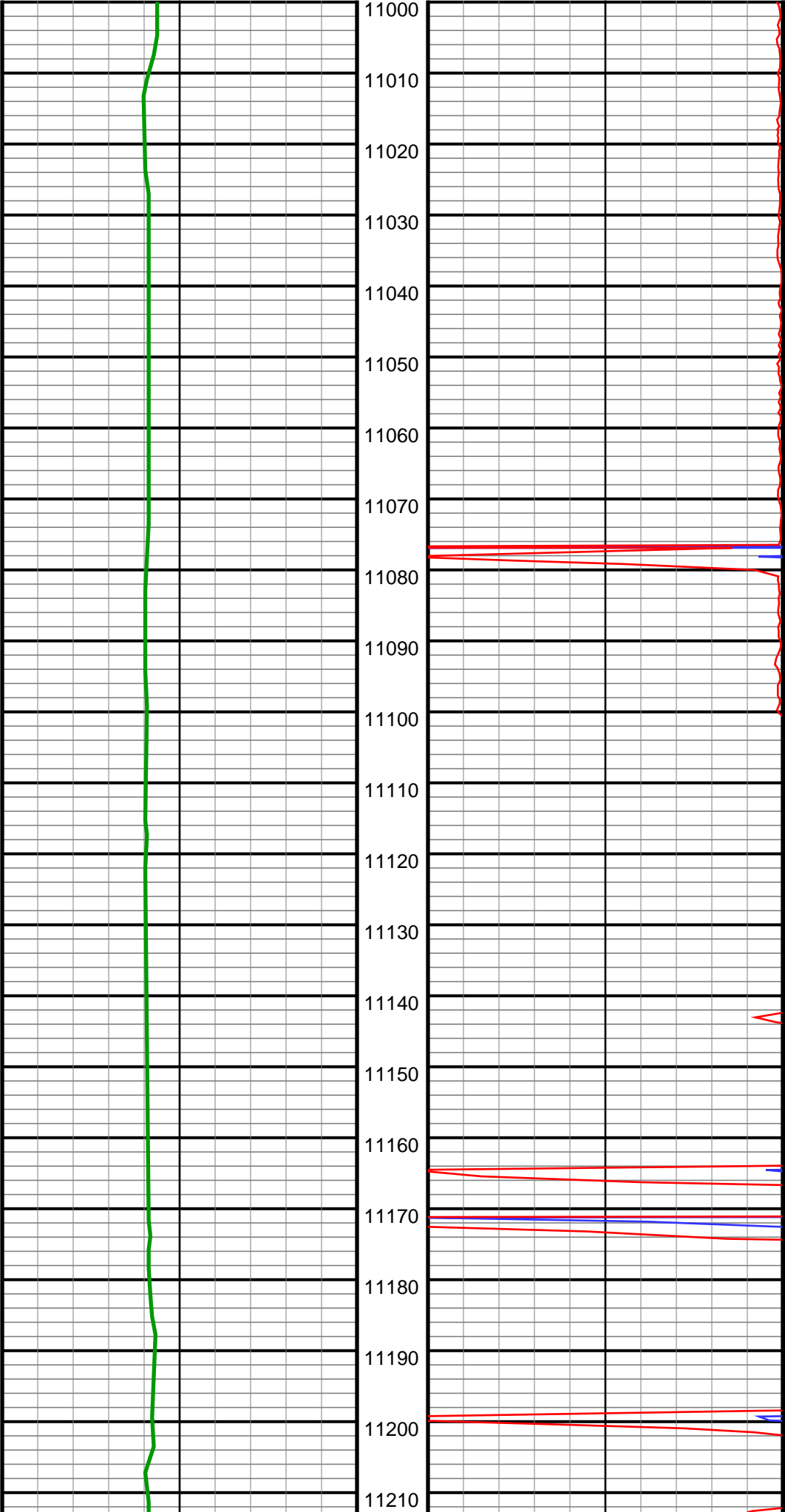
#112 MD(10646.00) Inc(89.9) Azm(181.1) TVD(7129.01)

#113 MD(10740.00) Inc(89.8) Azm(178.9) TVD(7129.26)



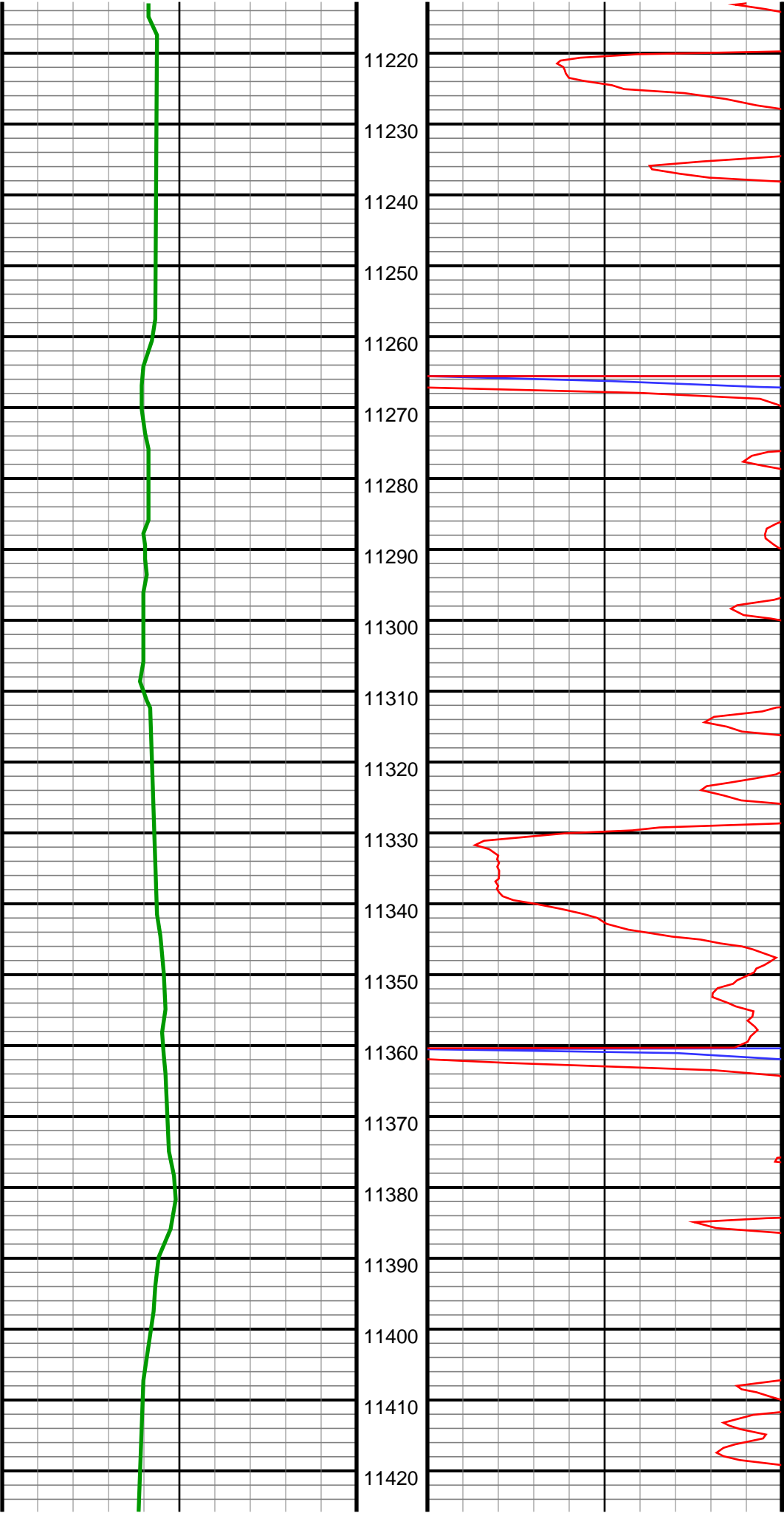
#114 MD(10835.00) Inc(90.1) Azm(179.6) TVD(7129.34)

#115 MD(10929.00) Inc(90.7) Azm(180.1) TVD(7128.68)



#116 MD(11025.00) Inc(91.2) Azm(182.1) TVD(7127.09)

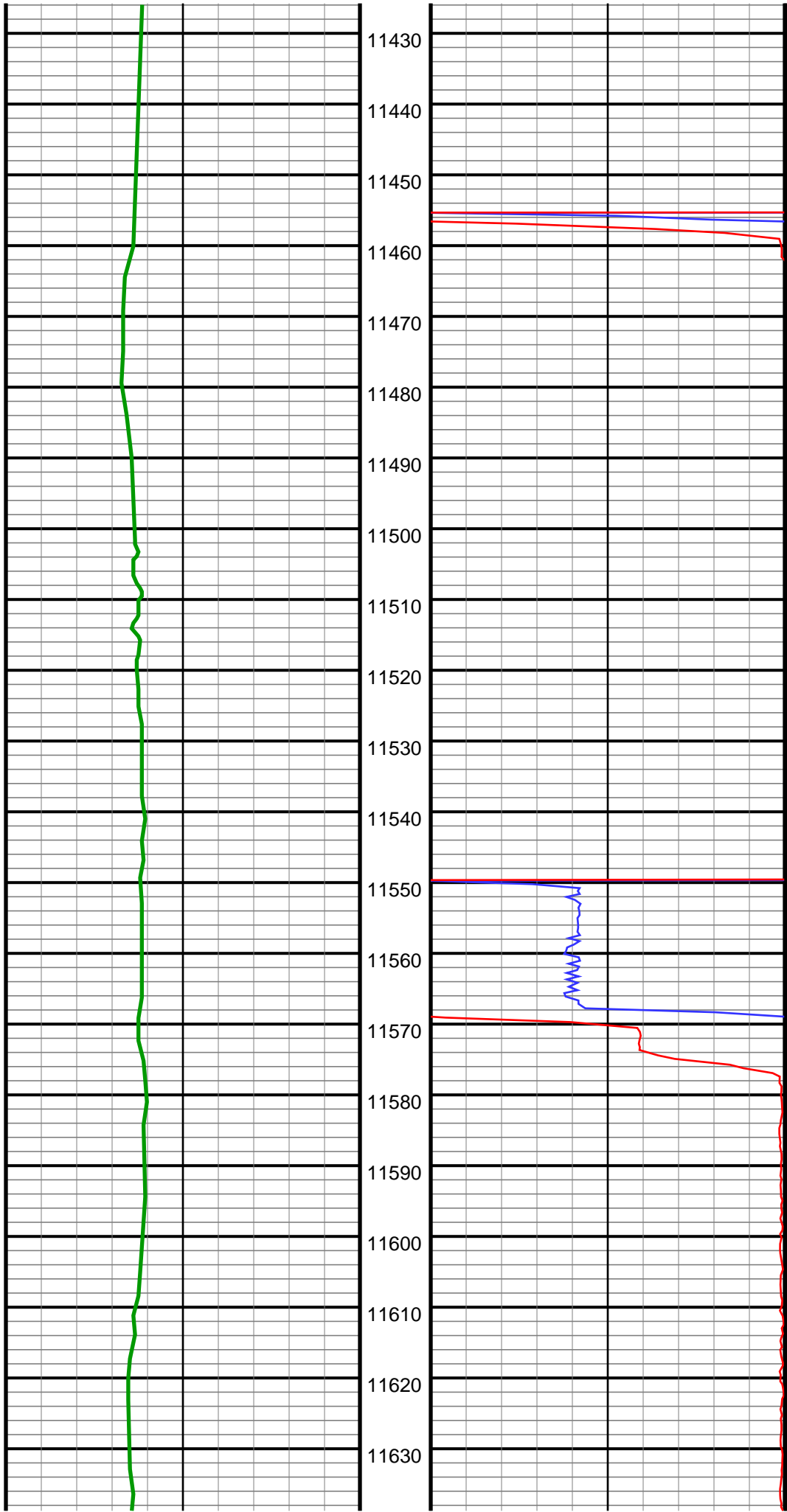
#117 MD(11119.00) Inc(91.1) Azm(181.8) TVD(7125.20)



#118 MD(11215.00) Inc(91.1) Azm(180.8) TVD(7123.36)

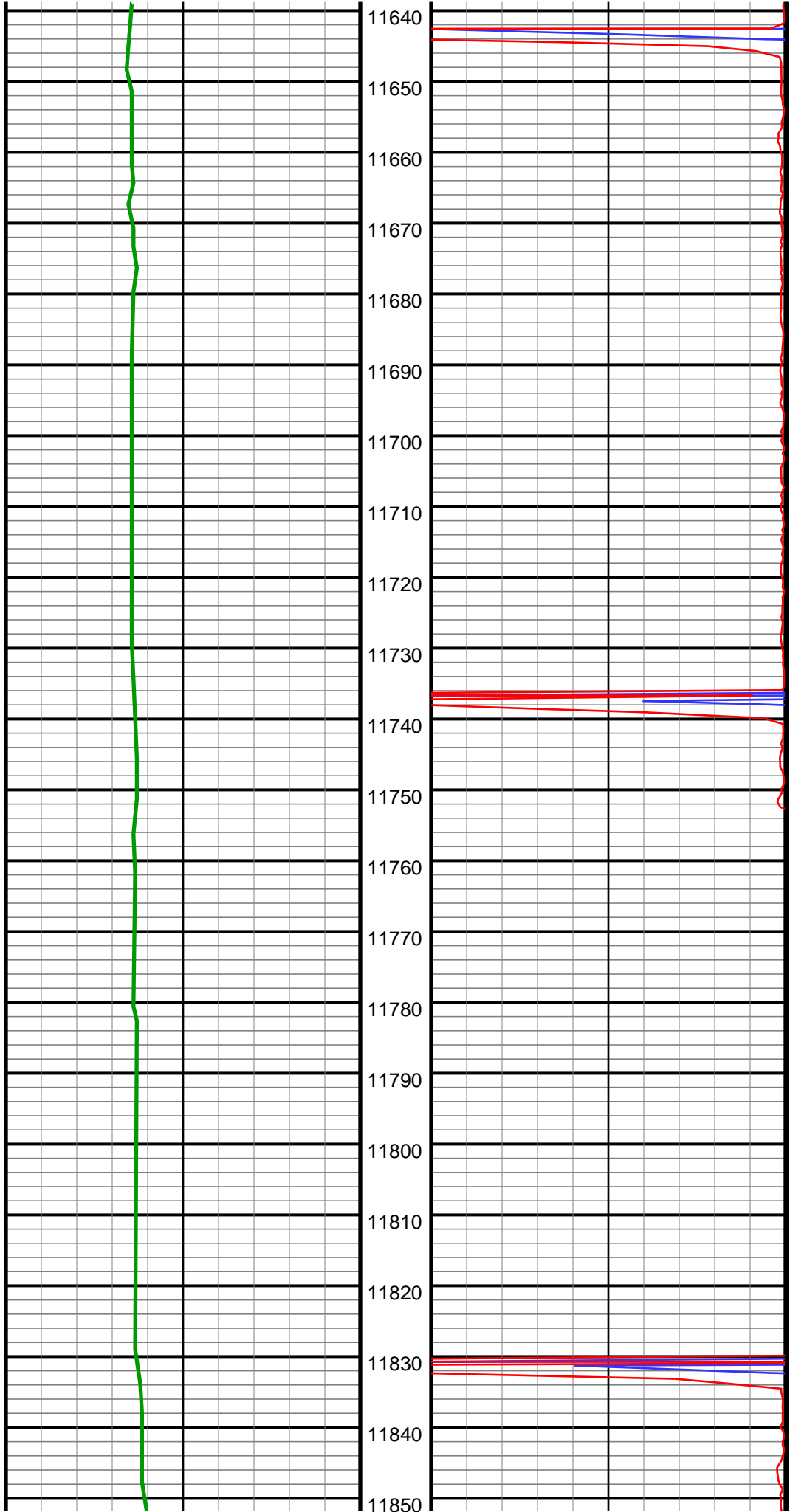
#119 MD(11309.00) Inc(91.0) Azm(180.8) TVD(7121.64)

#120 MD(11404.00) Inc(91.1) Azm(180.4) TVD(7119.90)



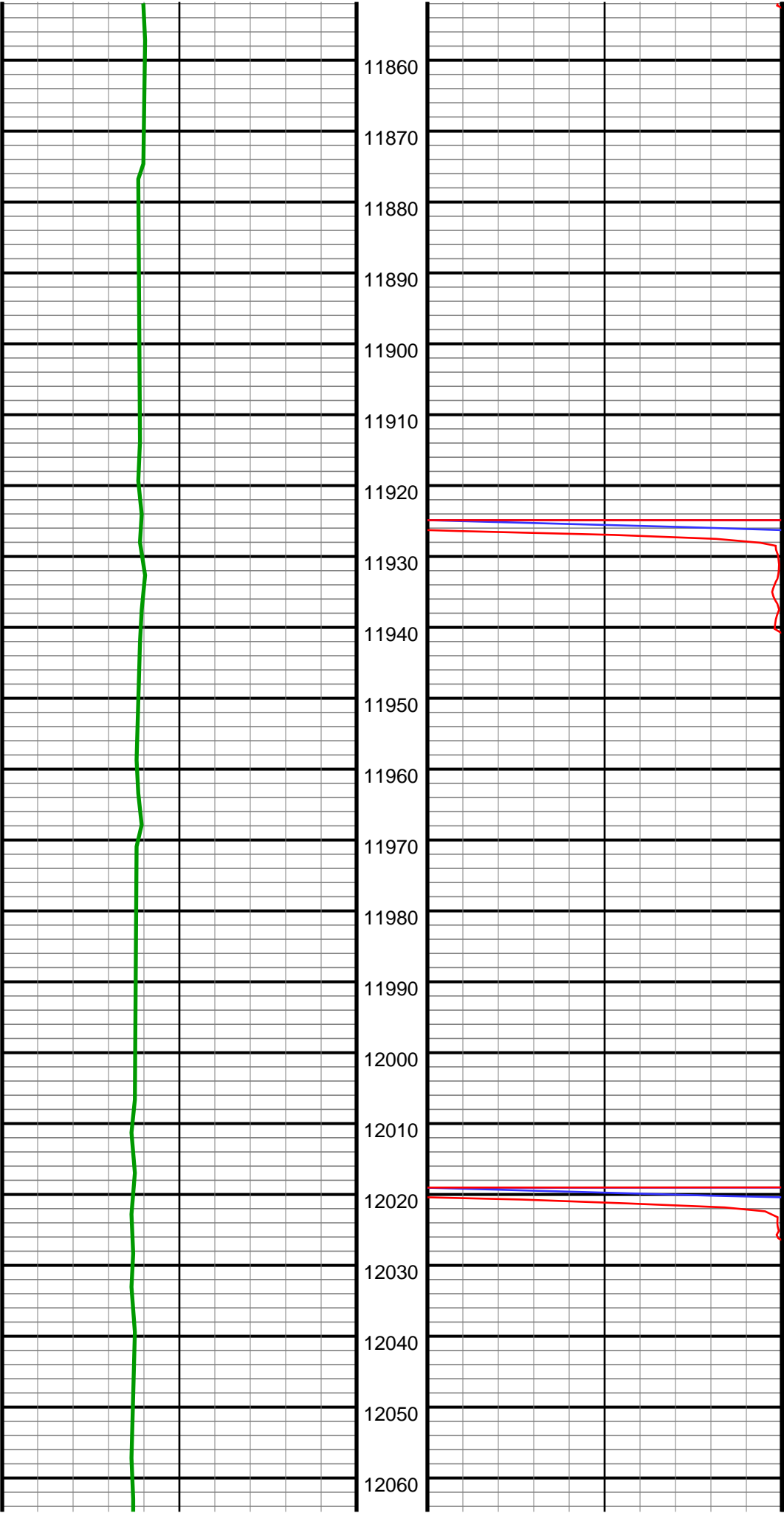
#121 MD(11497.00) Inc(91.1) Azm(179.4) TVD(7118.11)

#122 MD(11591.00) Inc(90.9) Azm(181.4) TVD(7116.47)



#123 MD(11686.00) Inc(90.1) Azm(182.7) TVD(7115.64)

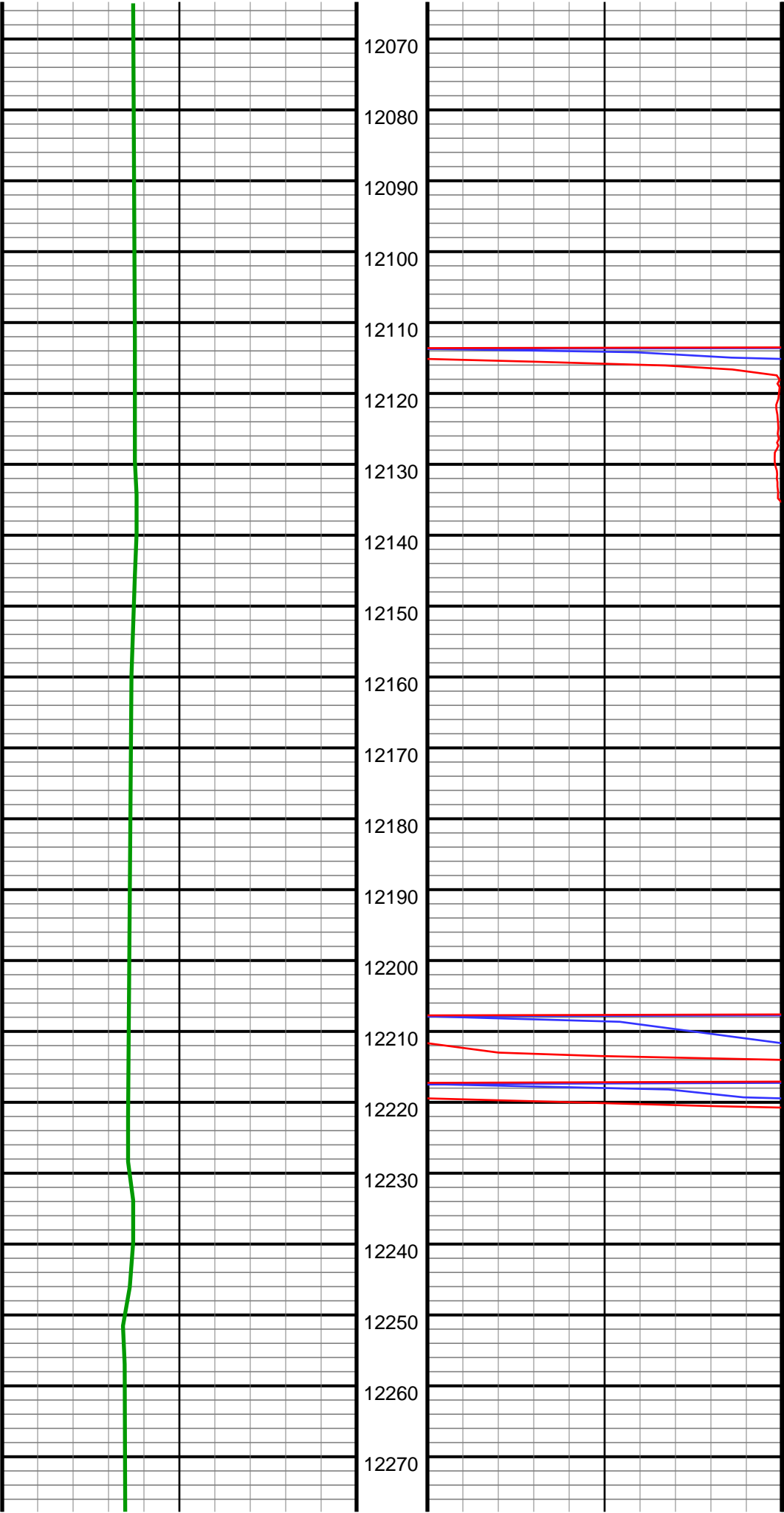
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#125 MD(11875.00) Inc(90.4) Azm(181.8) TVD(7115.06)

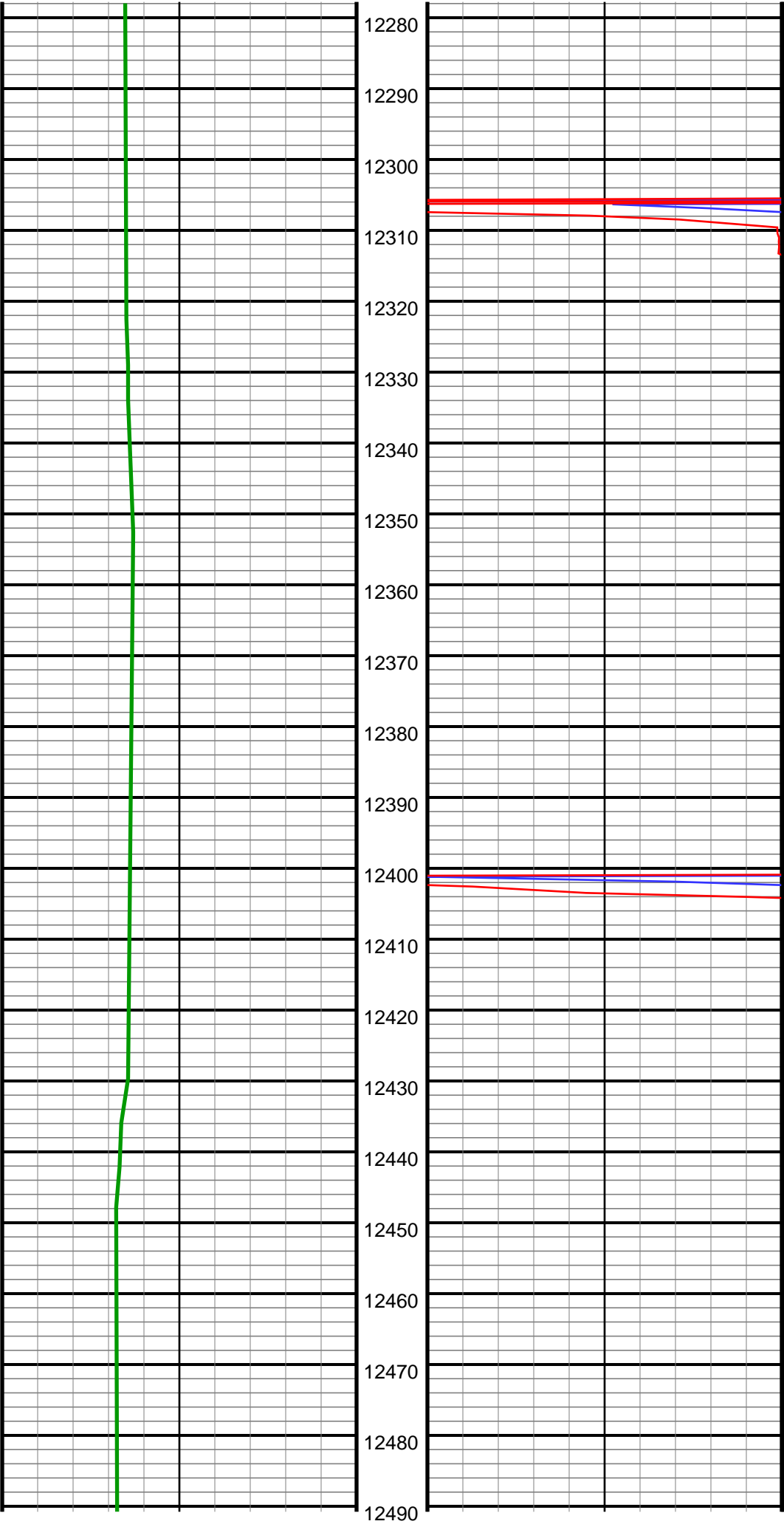
#126 MD(11969.00) Inc(90.3) Azm(181.4) TVD(7114.49)

#127 MD(12064.00) Inc(90.2) Azm(181.3) TVD(7114.08)



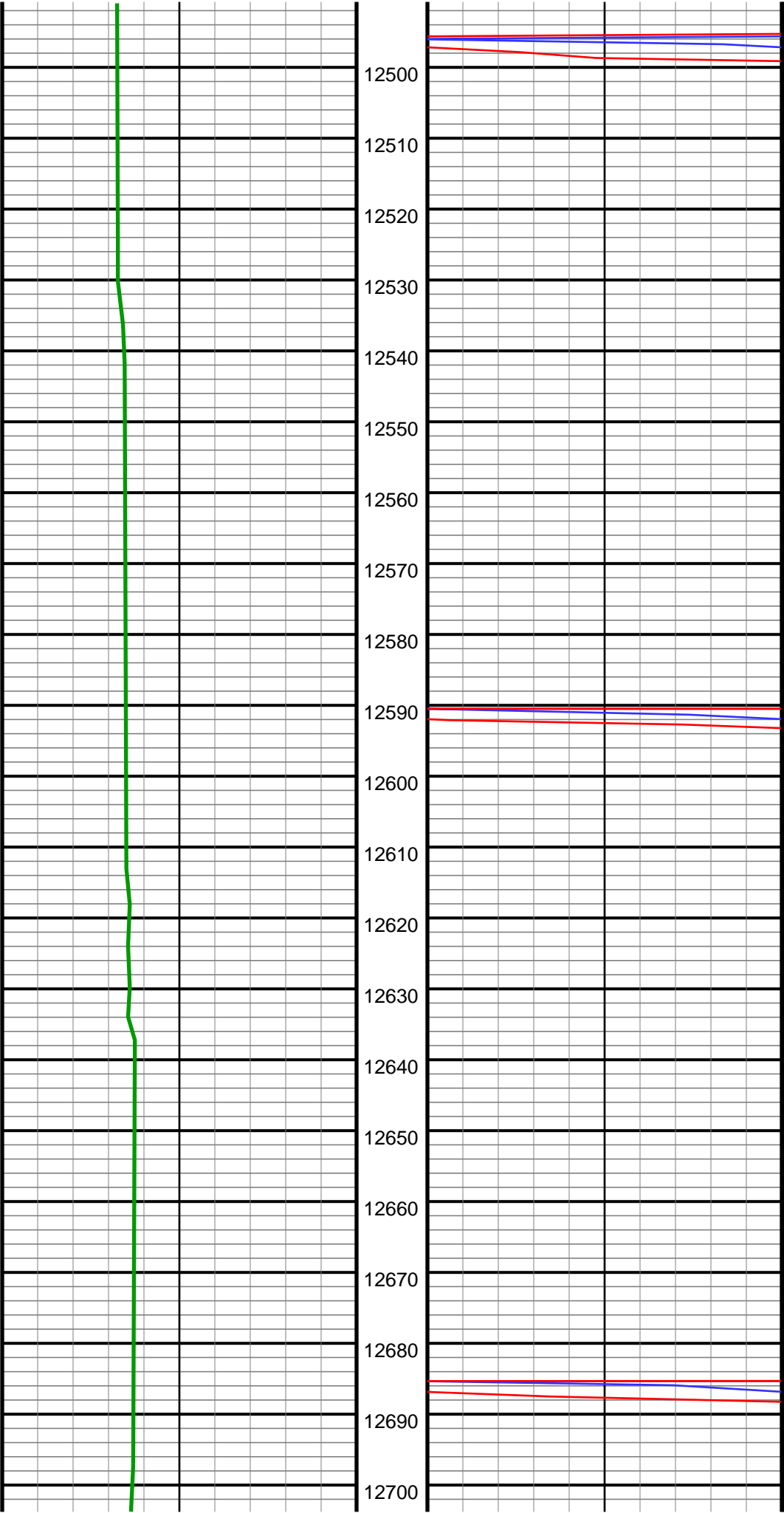
#128 MD(12158.00) Inc(90.3) Azm(181.6) TVD(7113.67)

#129 MD(12252.00) Inc(90.2) Azm(181.6) TVD(7113.26)



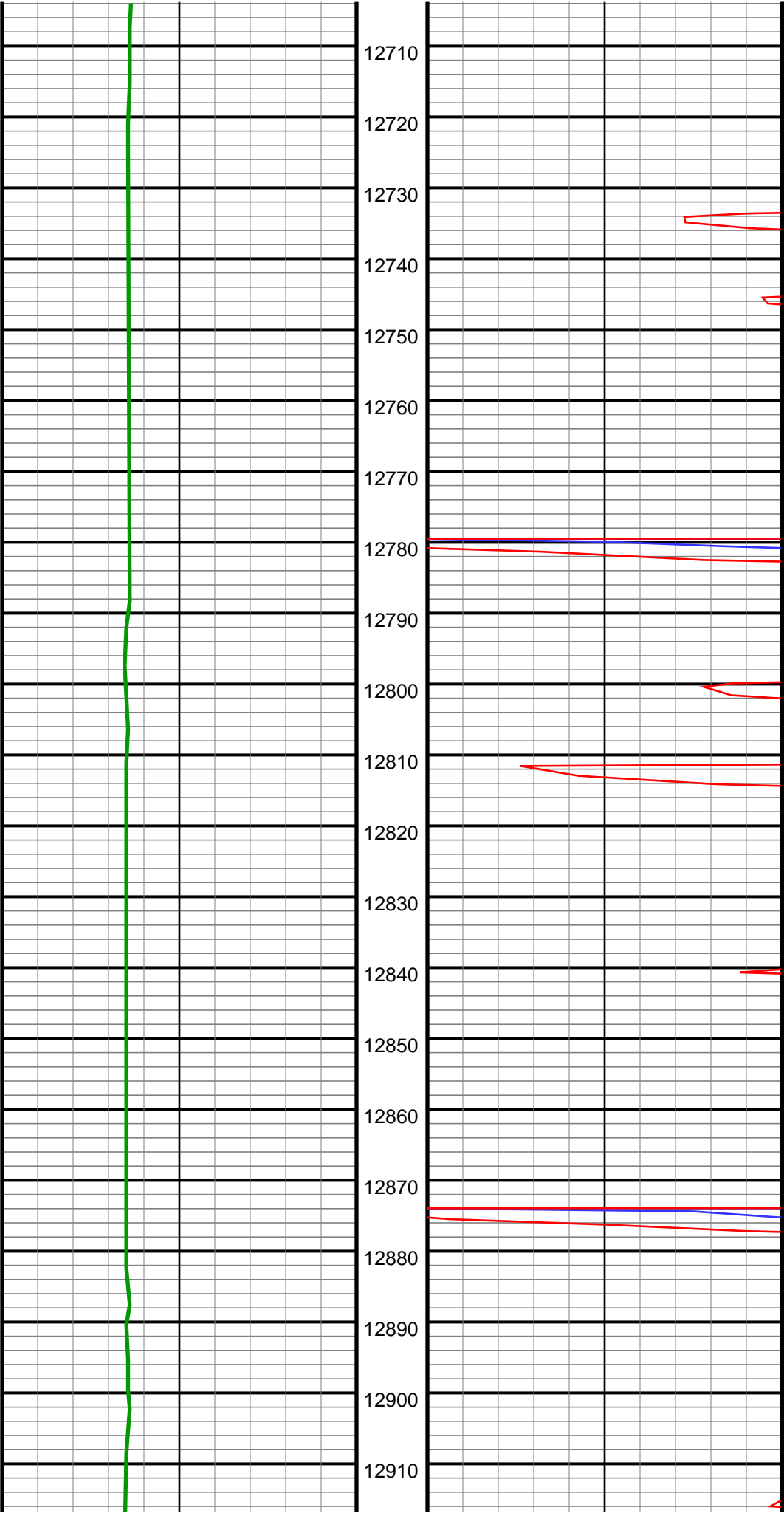
#130 MD(12347.00) Inc(90.2) Azm(181.5) TVD(7112.92)

#131 MD(12442.00) Inc(90.3) Azm(181.7) TVD(7112.51)



#132 MD(12537.00) Inc(90.2) Azm(181.1) TVD(7112.09)

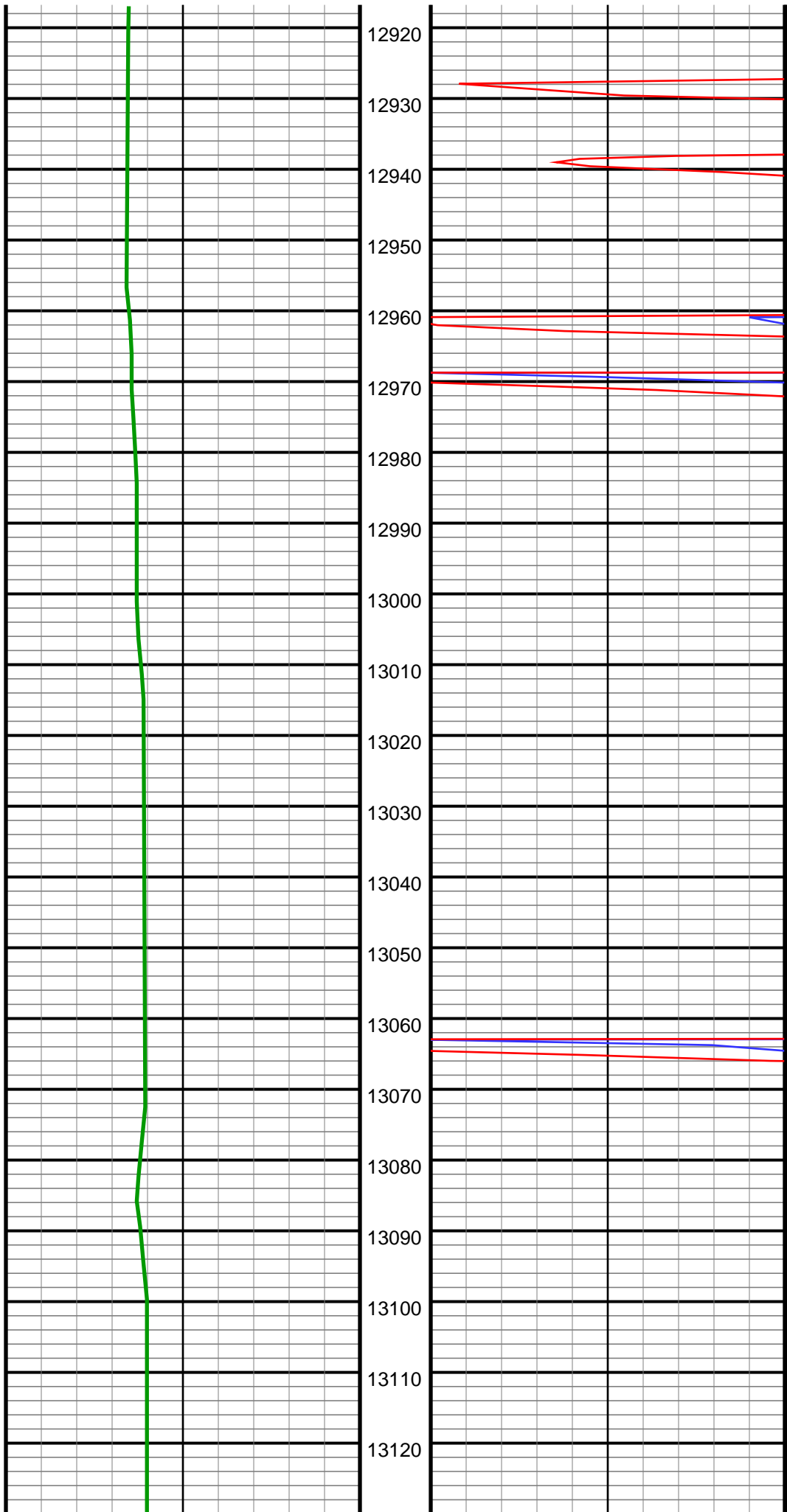
#133 MD(12632.00) Inc(90.1) Azm(180.4) TVD(7111.85)



#134 MD(12727.00) Inc(90.0) Azm(180.1) TVD(7111.76)

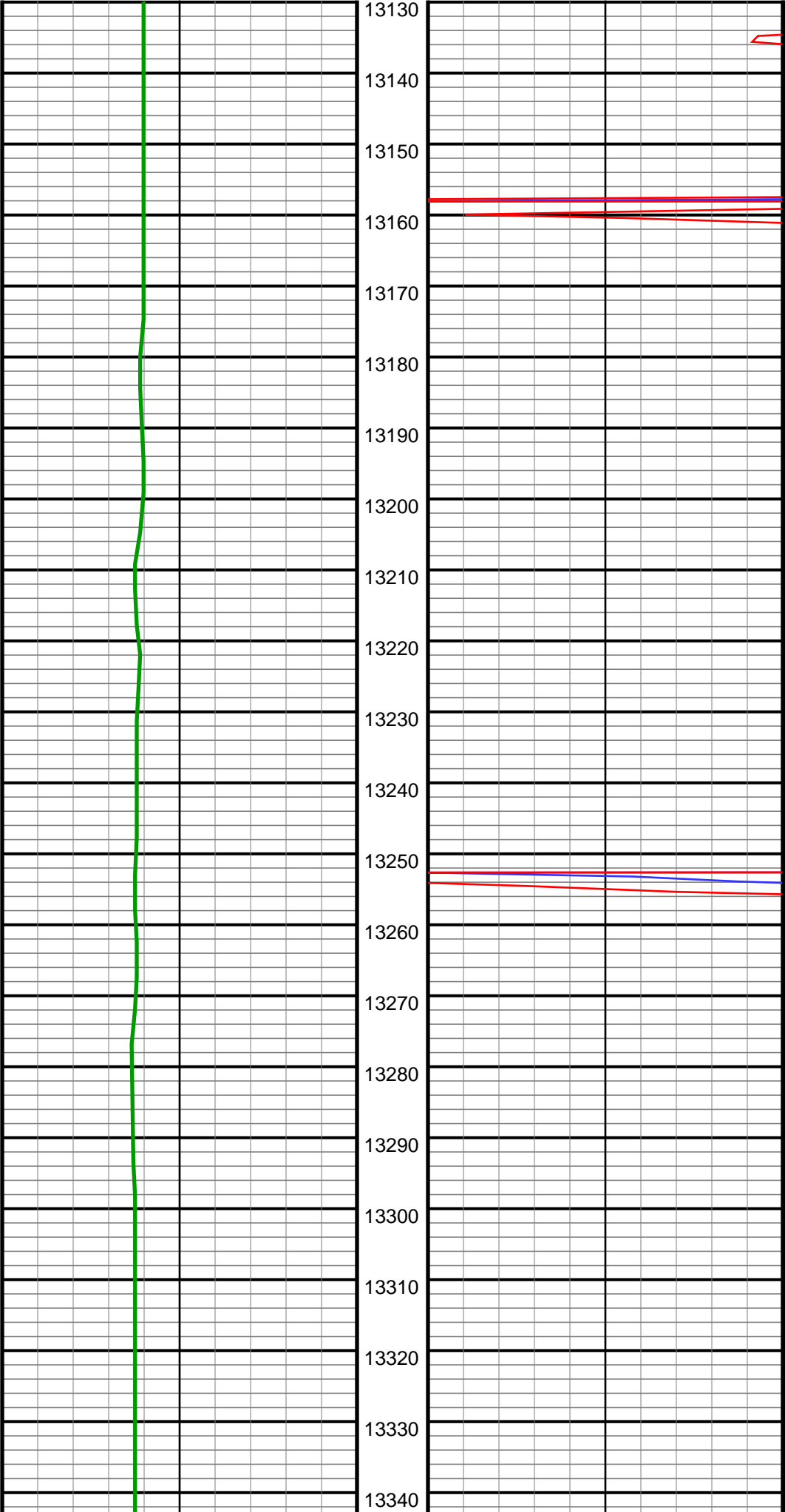
#135 MD(12822.00) Inc(90.2) Azm(180.8) TVD(7111.60)

#136 MD(12916.00) Inc(90.2) Azm(181.1) TVD(7111.27)



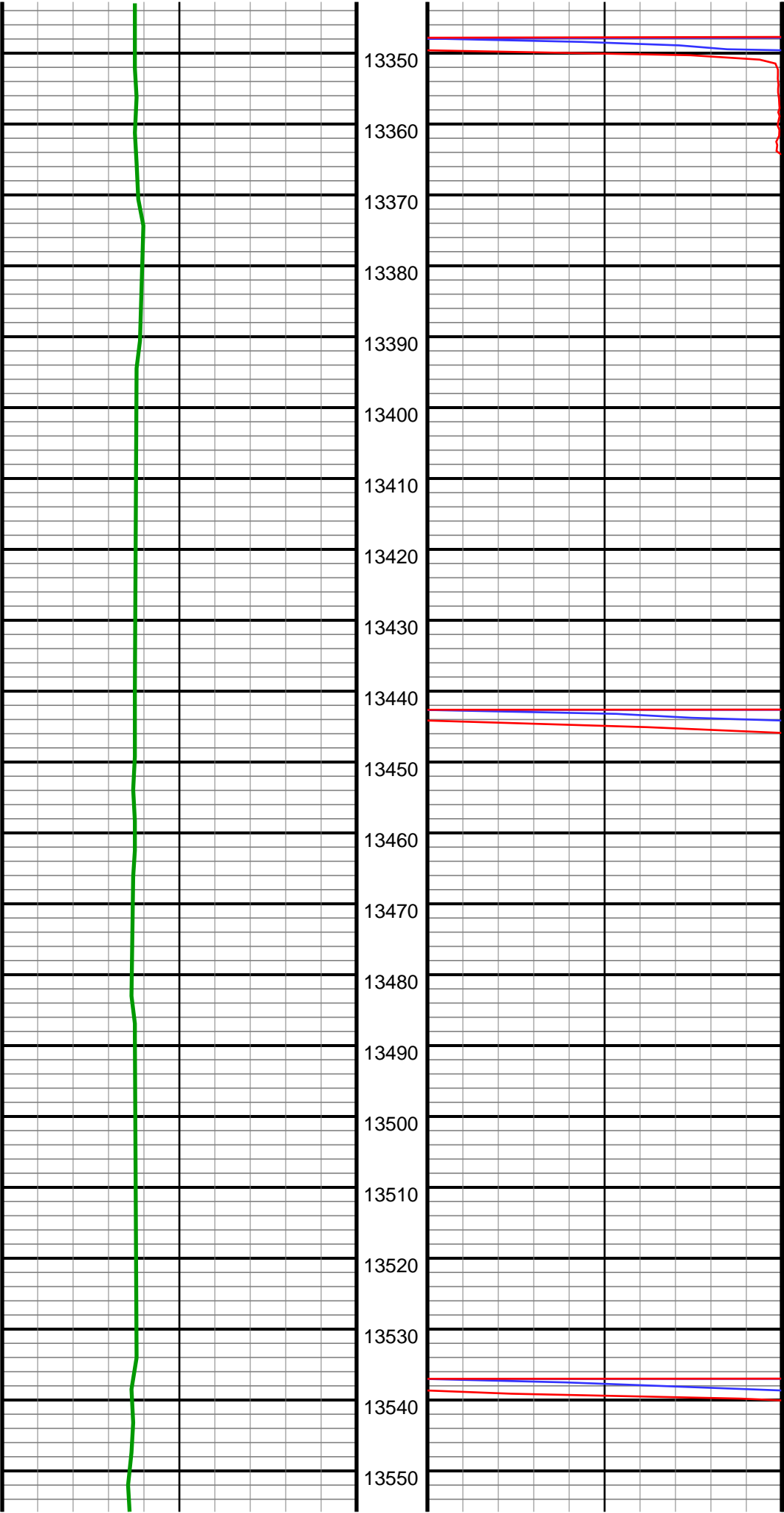
#137 MD(13010.00) Inc(90.0) Azm(180.9) TVD(7111.11)

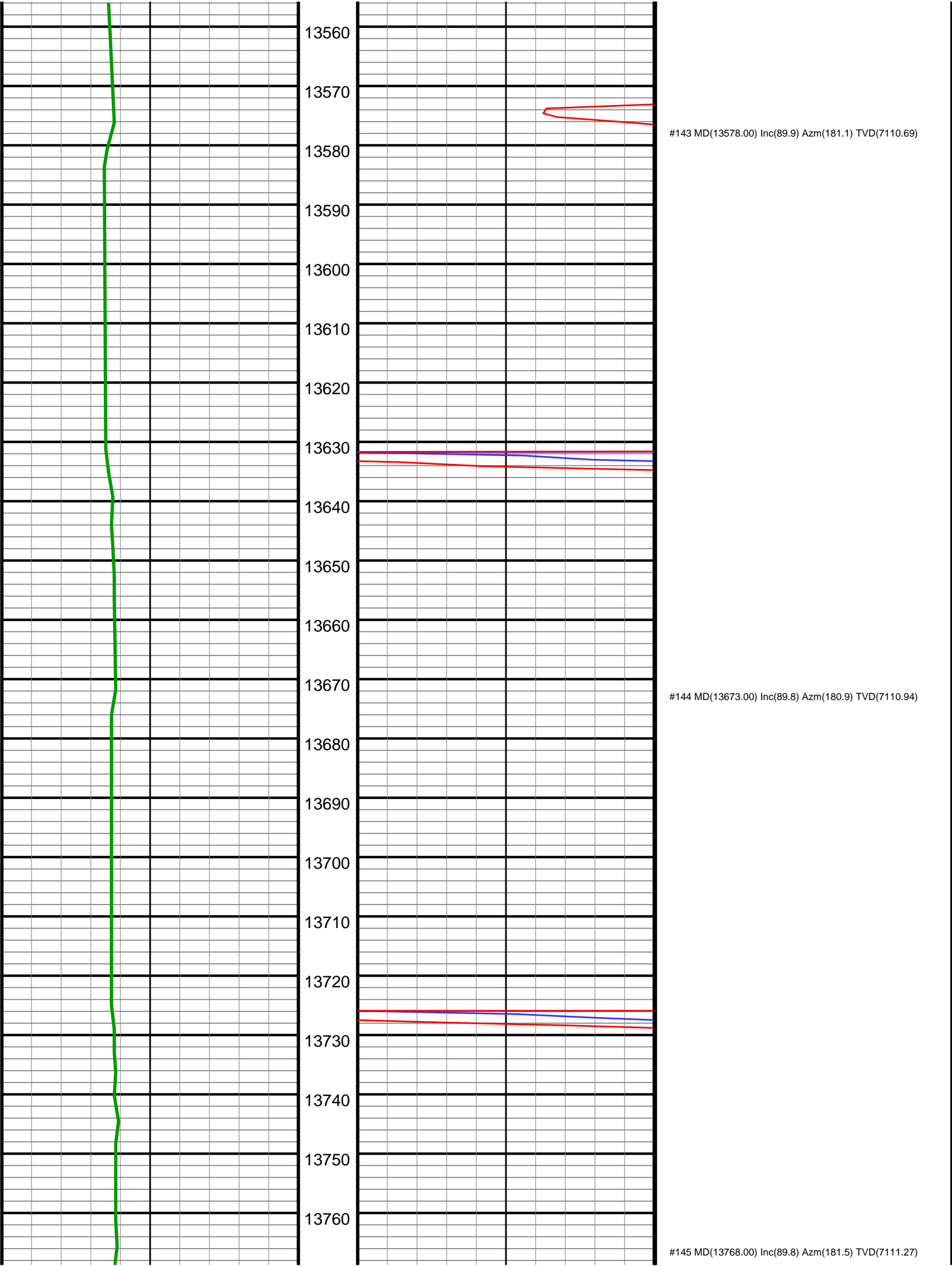
#138 MD(13105.00) Inc(90.2) Azm(181.4) TVD(7110.94)

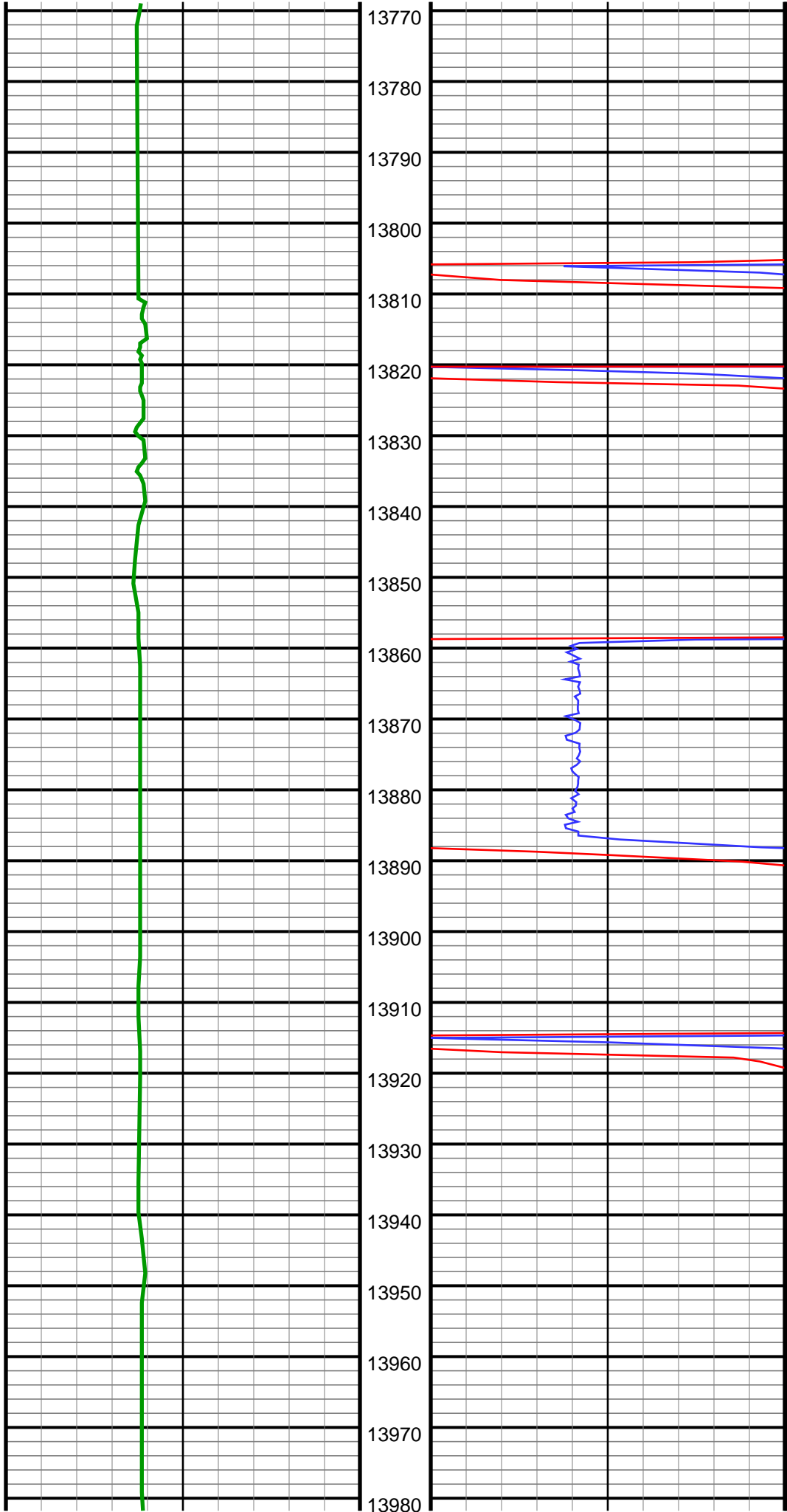


#139 MD(13199.00) Inc(90.2) Azm(180.8) TVD(7110.61)

#140 MD(13294.00) Inc(90.2) Azm(181.1) TVD(7110.28)

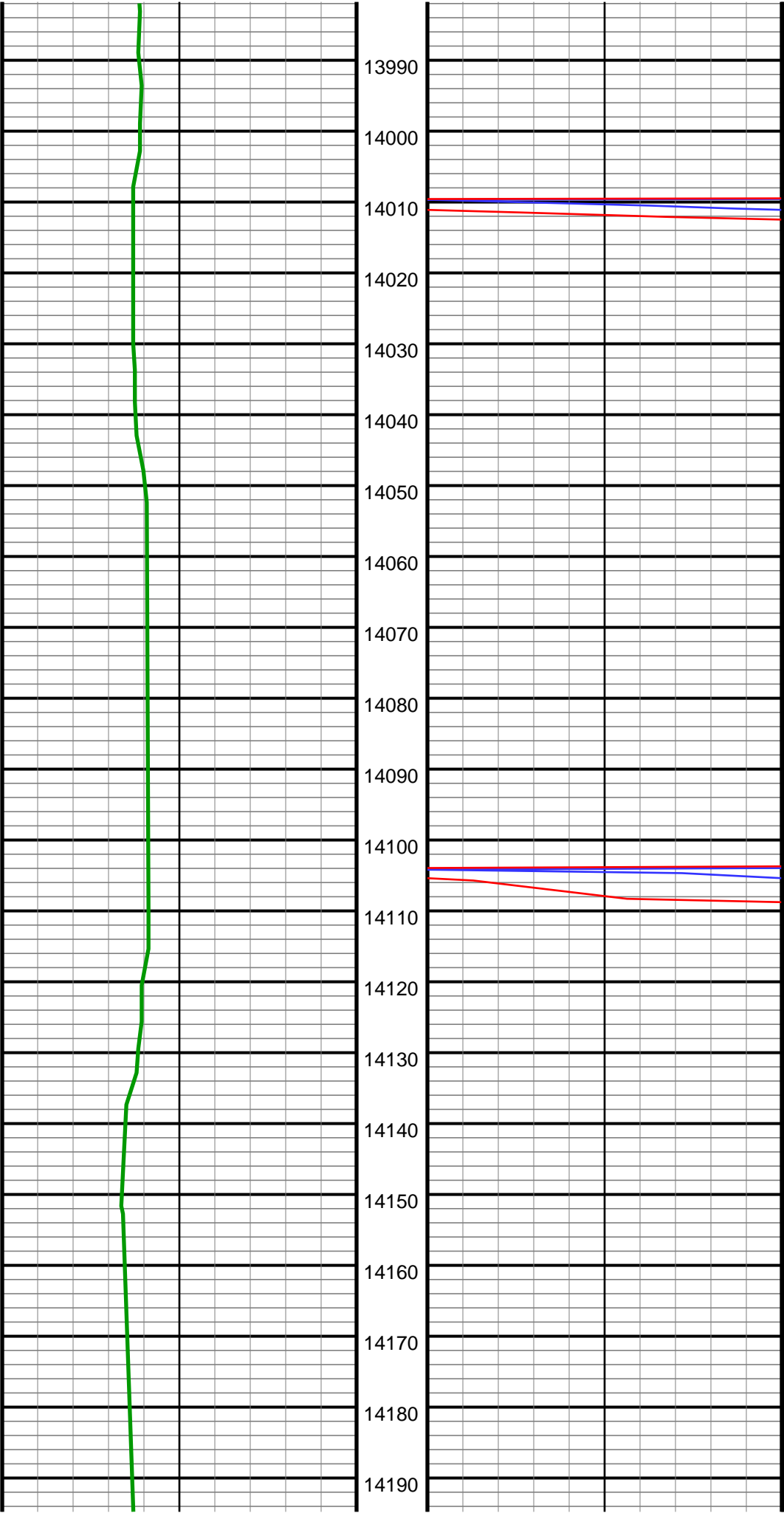






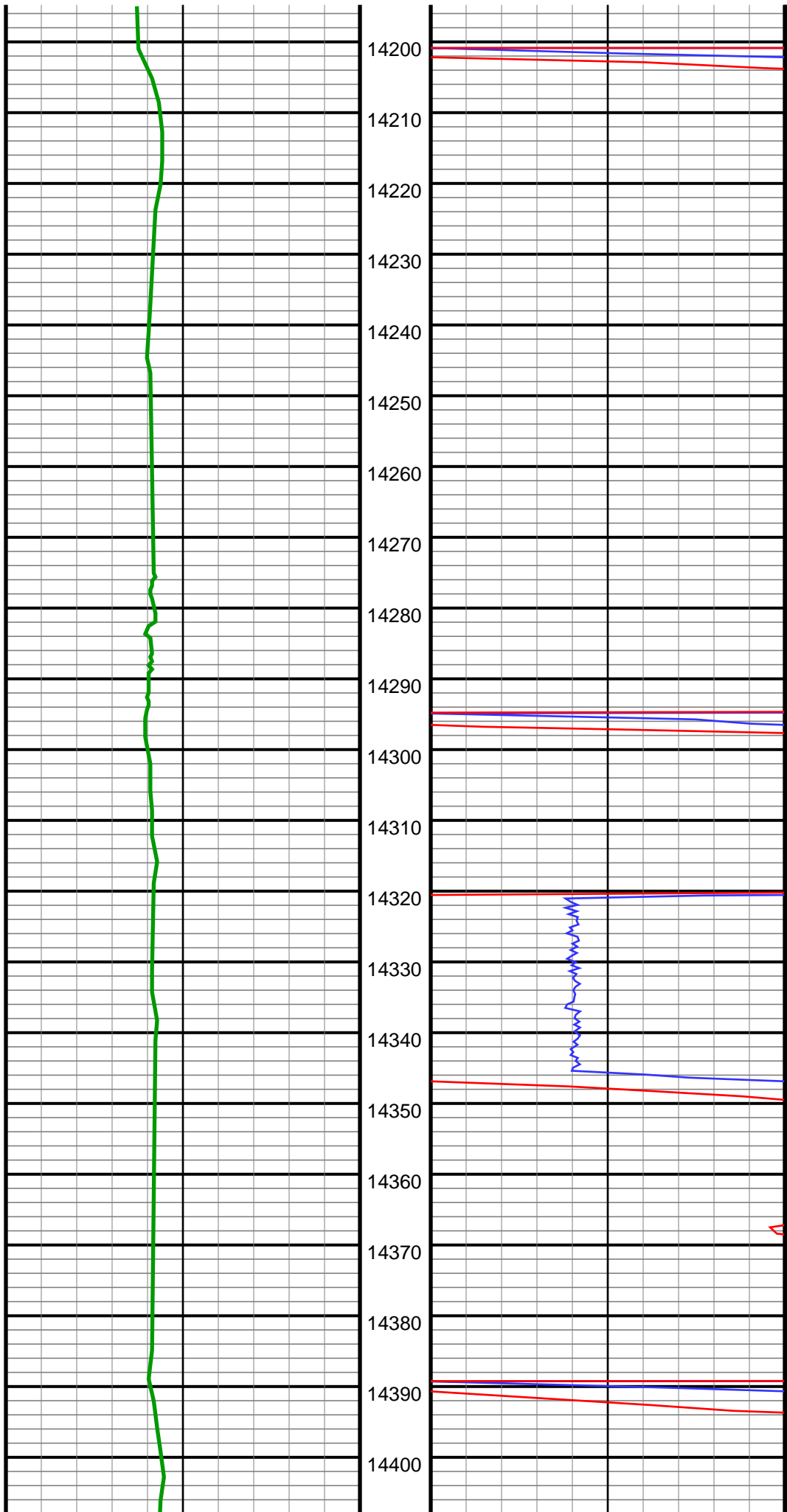
#146 MD(13863.00) Inc(89.8) Azm(181.2) TVD(7111.60)

#147 MD(13958.00) Inc(88.9) Azm(181.0) TVD(7112.68)



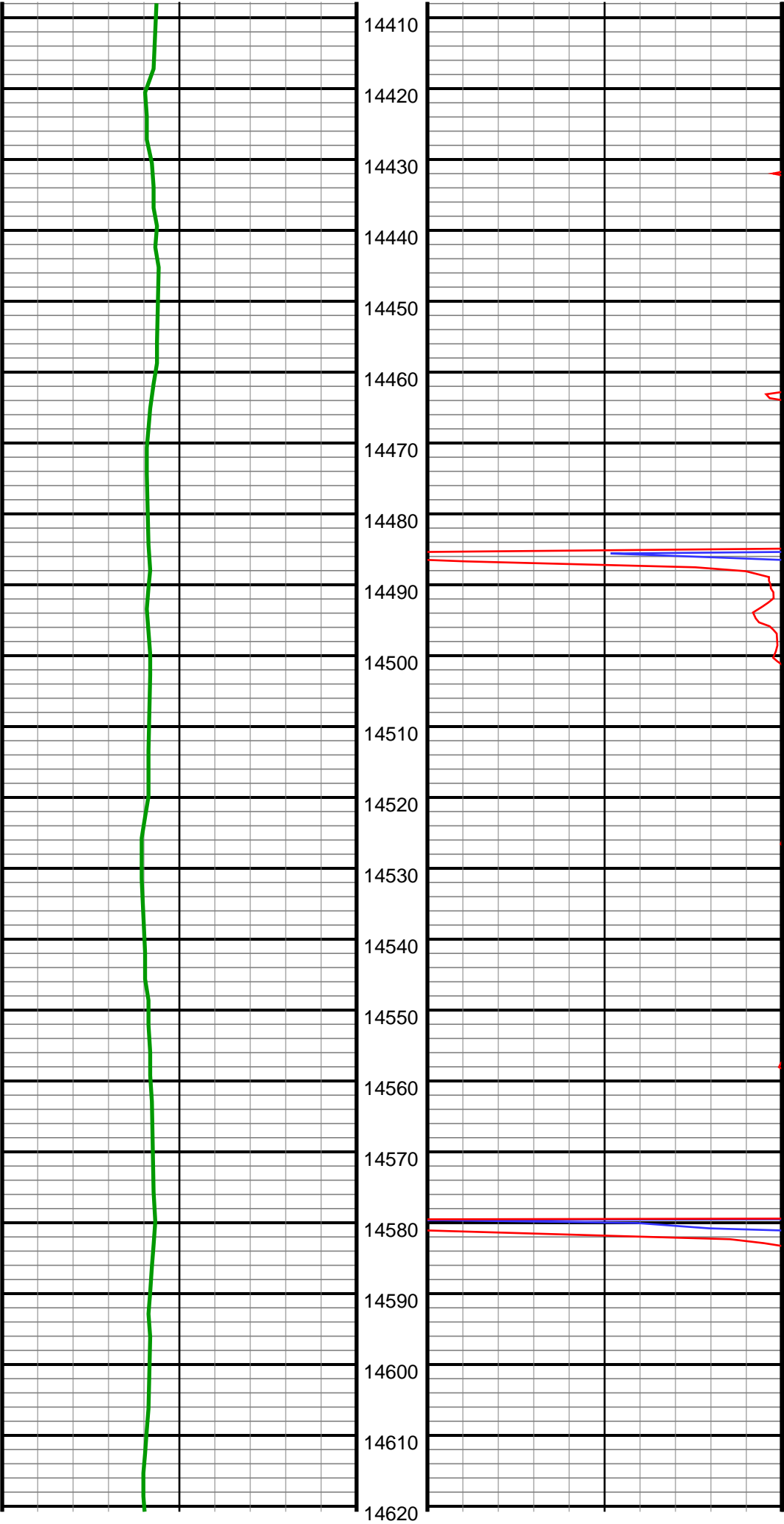
#148 MD(14053.00) Inc(89.0) Azm(180.5) TVD(7114.42)

#149 MD(14148.00) Inc(88.9) Azm(180.7) TVD(7116.16)



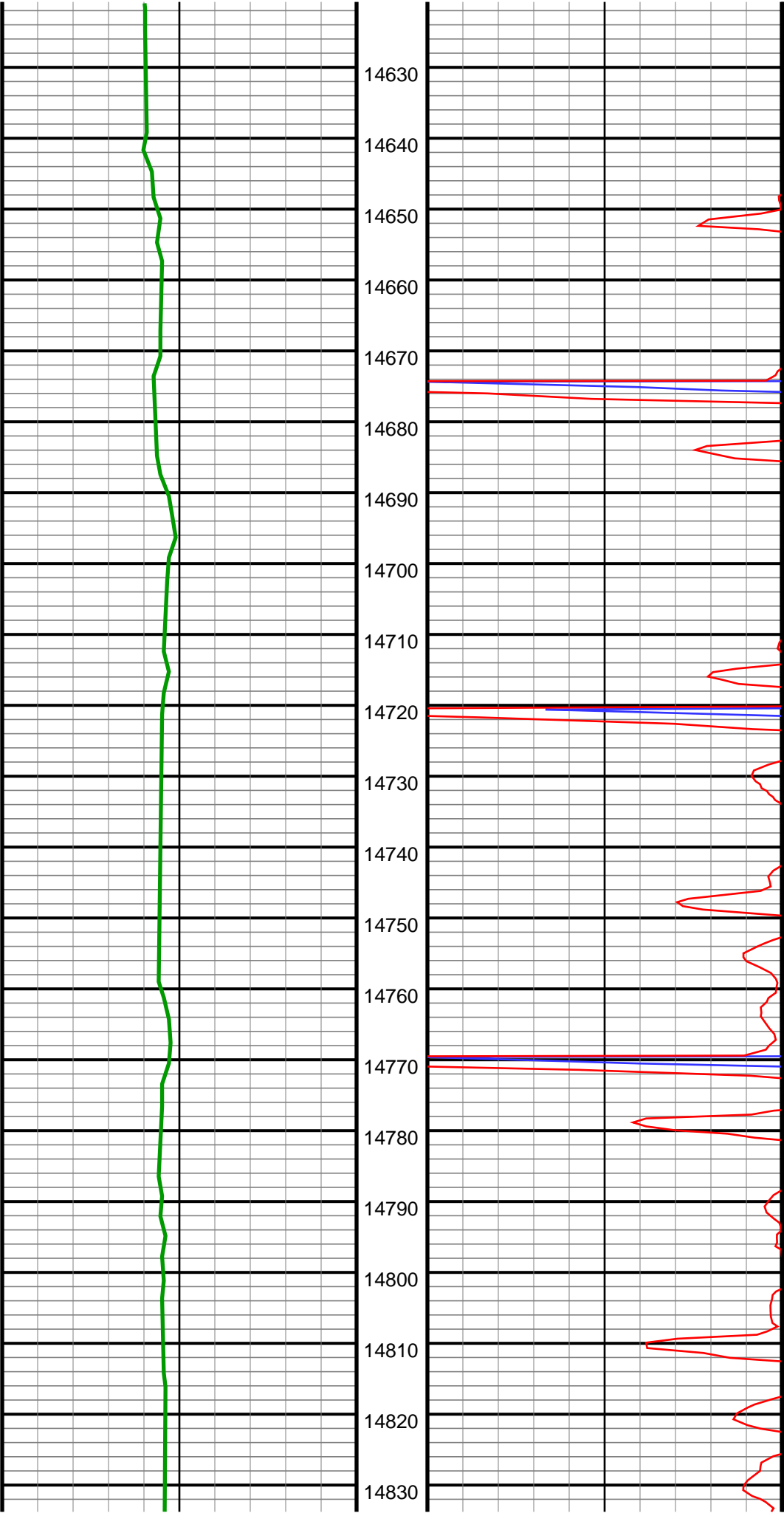
#150 MD(14243.00) Inc(89.1) Azm(180.8) TVD(7117.82)

#151 MD(14338.00) Inc(89.2) Azm(180.8) TVD(7119.23)



#152 MD(14433.00) Inc(89.1) Azm(181.0) TVD(7120.64)

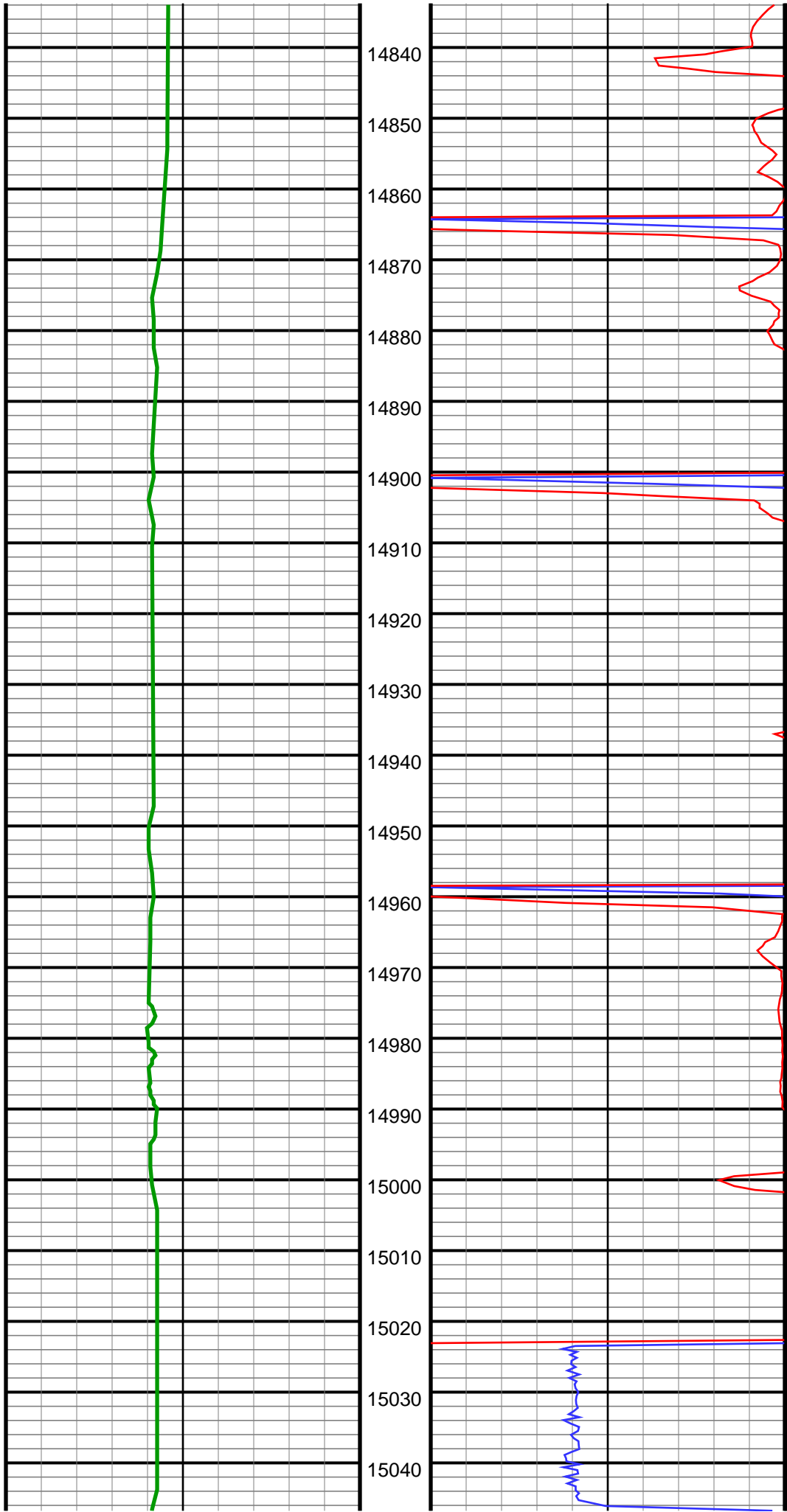
#153 MD(14528.00) Inc(89.8) Azm(180.2) TVD(7121.55)



#154 MD(14623.00) Inc(89.9) Azm(179.4) TVD(7121.80)

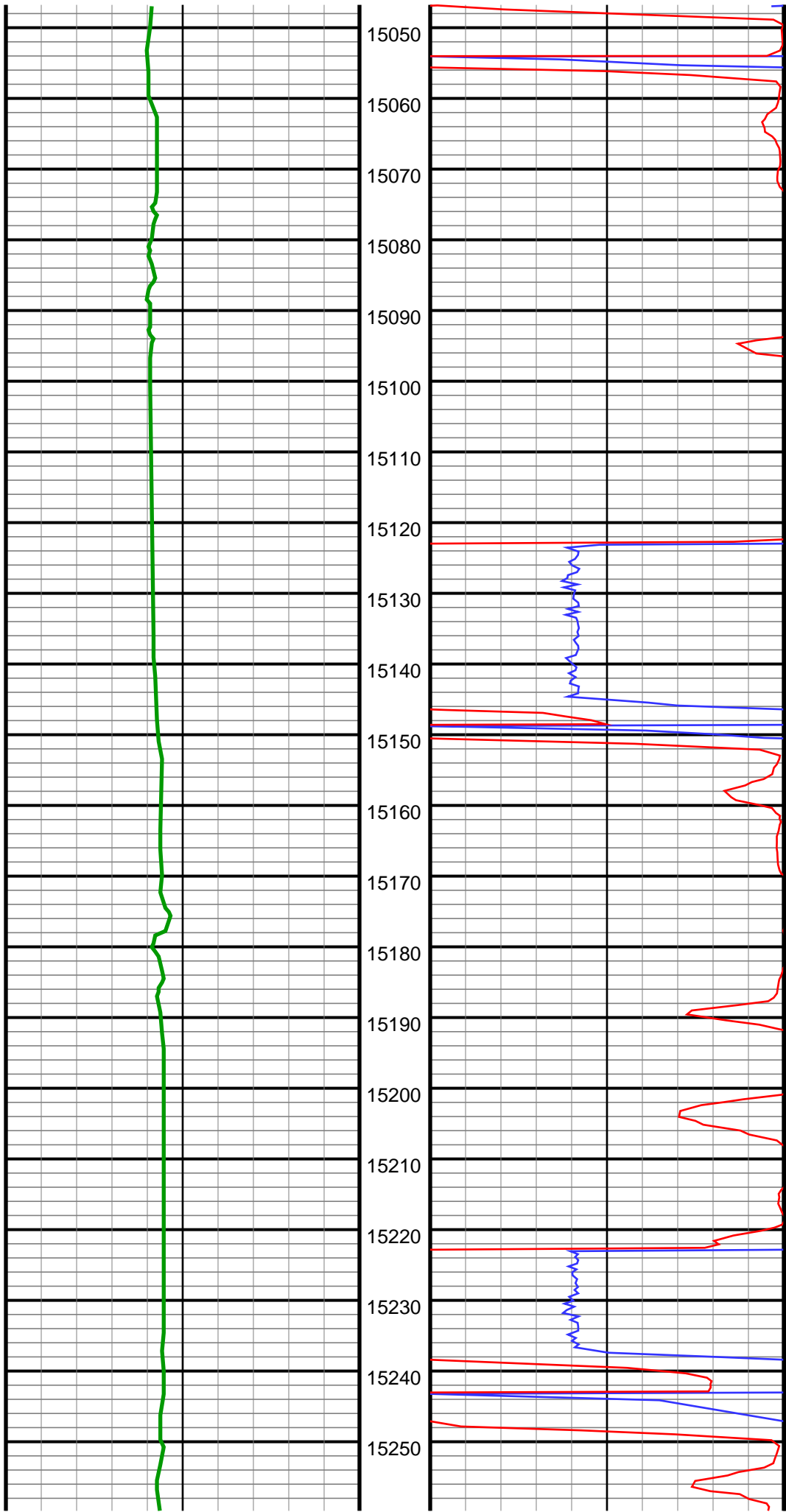
#155 MD(14718.00) Inc(90.0) Azm(177.8) TVD(7121.88)

#156 MD(14813.00) Inc(90.2) Azm(176.3) TVD(7121.72)



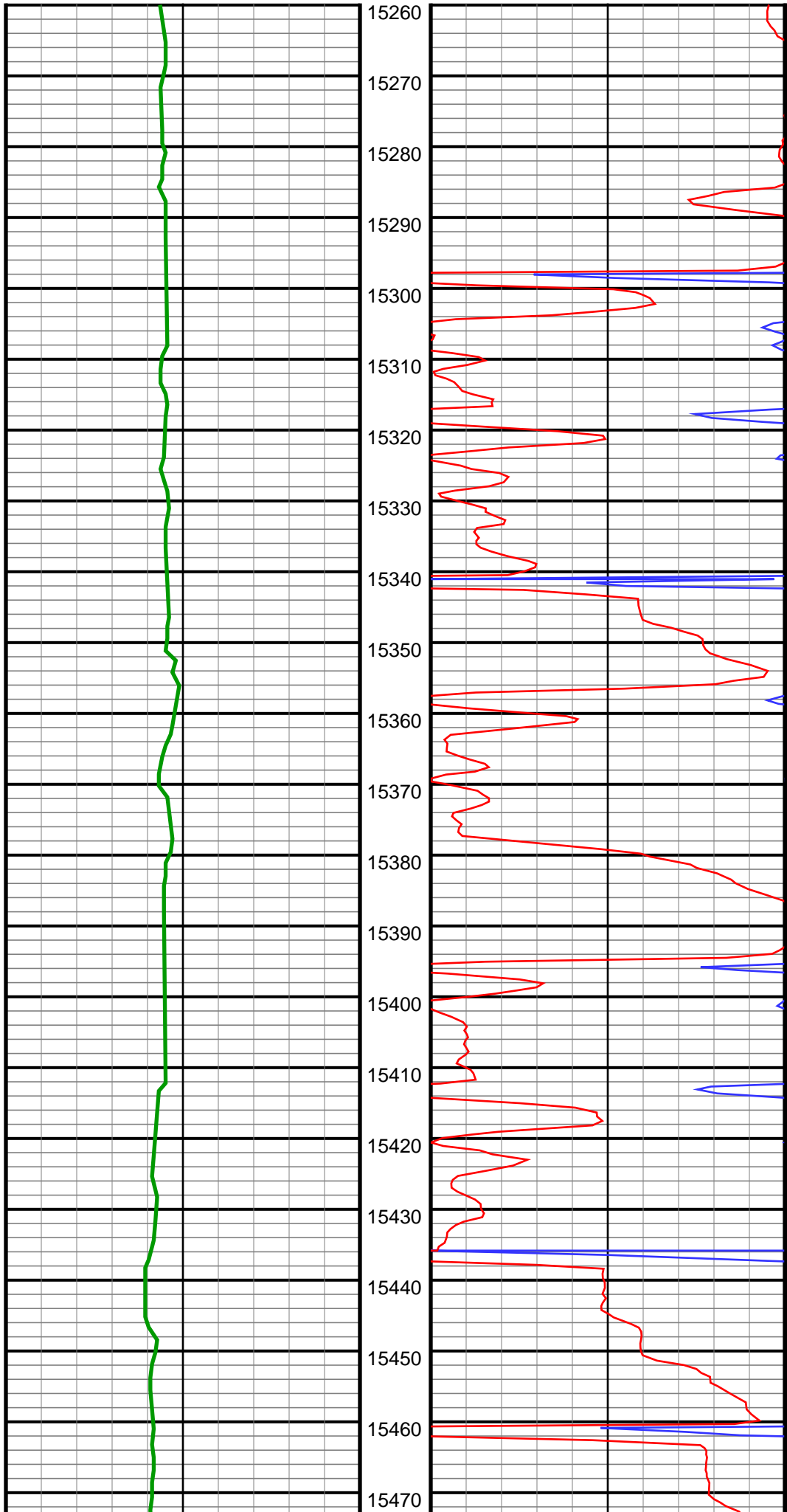
#157 MD(14908.00) Inc(89.9) Azm(175.6) TVD(7121.63)

#158 MD(15003.00) Inc(90.1) Azm(176.3) TVD(7121.63)



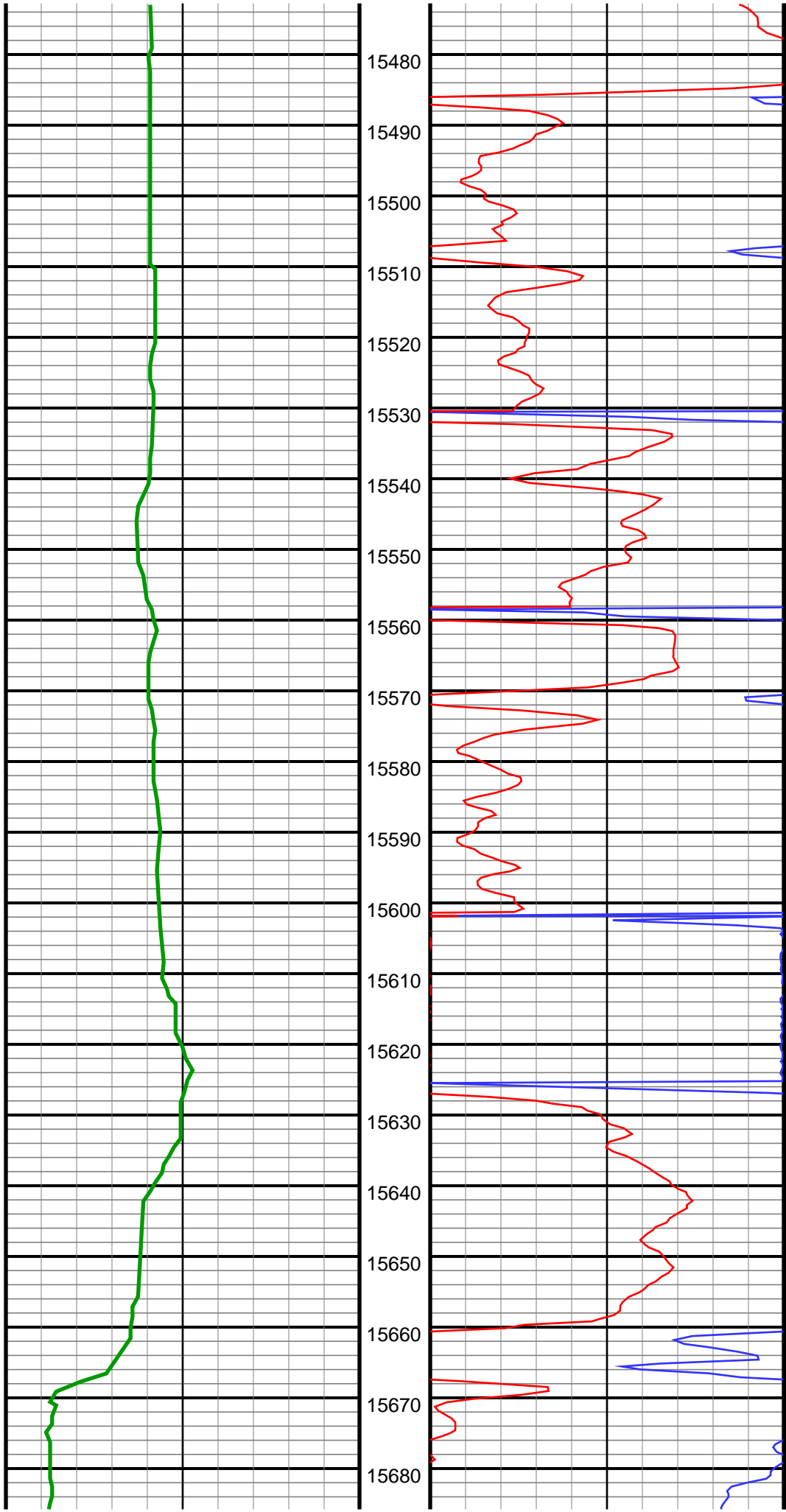
#159 MD(15098.00) Inc(90.1) Azm(177.3) TVD(7121.47)

#160 MD(15193.00) Inc(90.5) Azm(177.9) TVD(7120.97)



#161 MD(15288.00) Inc(91.0) Azm(177.9) TVD(7119.73)

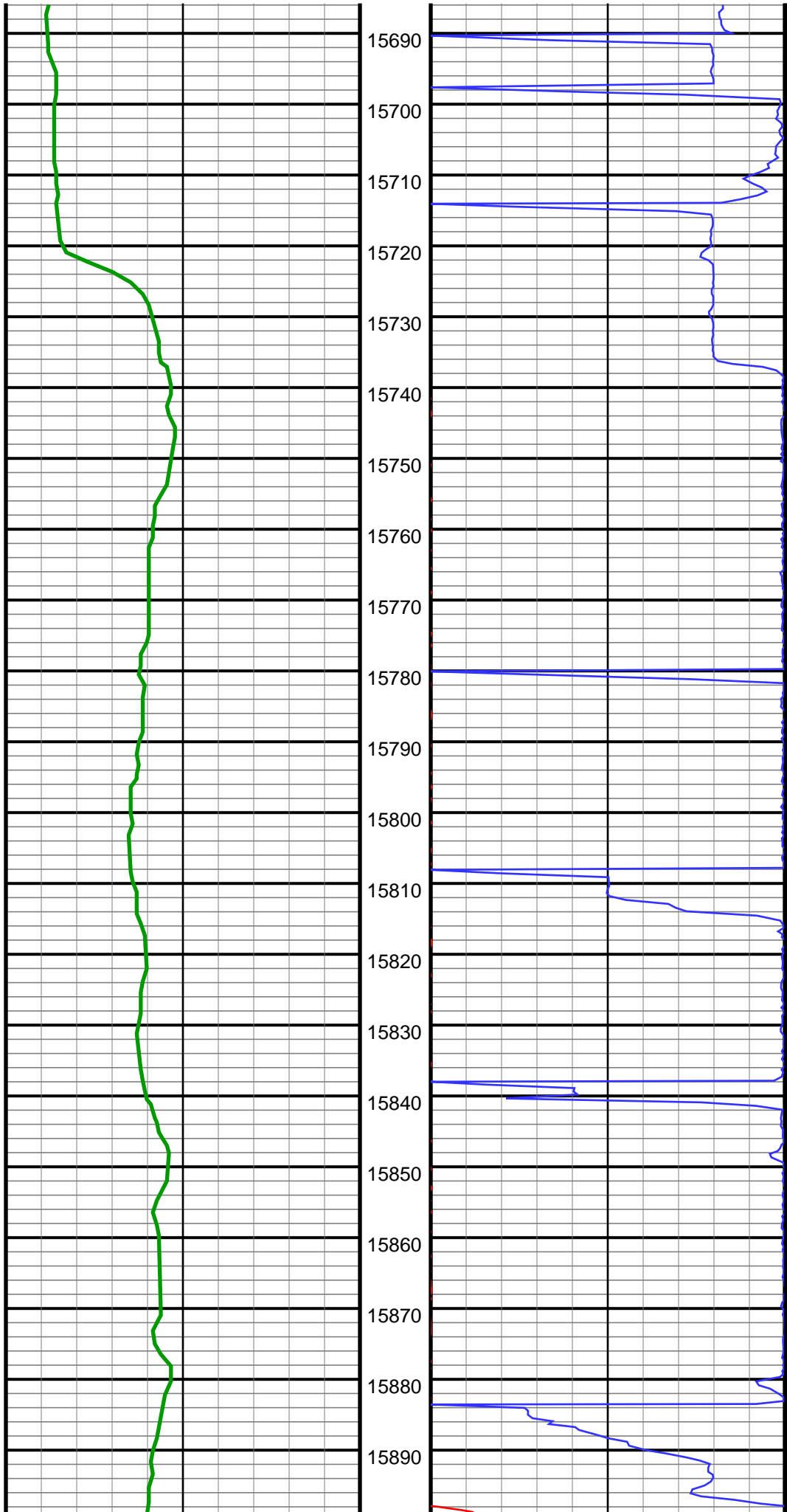
#162 MD(15382.00) Inc(92.3) Azm(178.2) TVD(7117.02)



#163 MD(15477.00) Inc(92.9) Azm(178.1) TVD(7112.71)

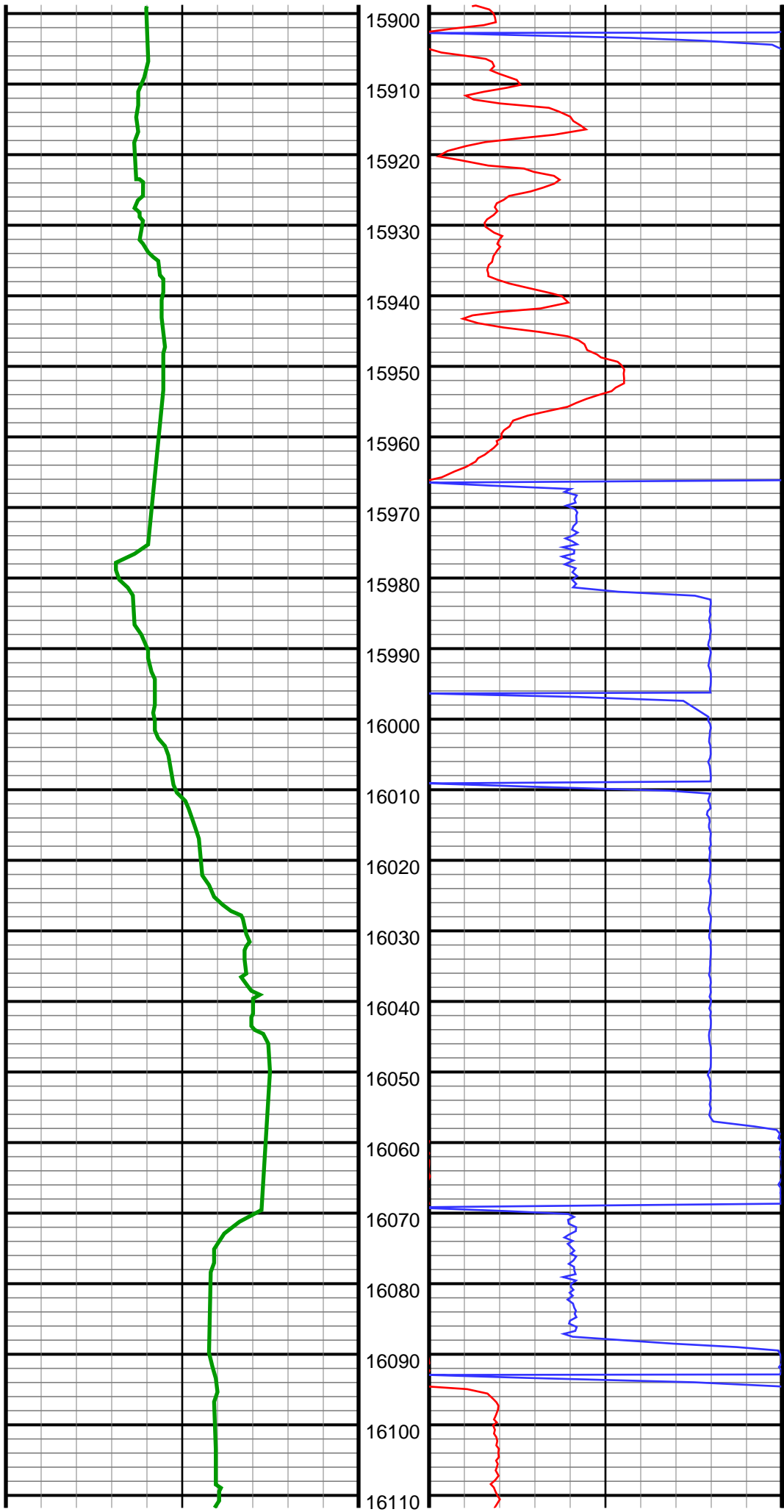
#164 MD(15572.00) Inc(93.7) Azm(177.3) TVD(7107.24)

#165 MD(15669.00) Inc(94.9) Azm(177.1) TVD(7099.97)

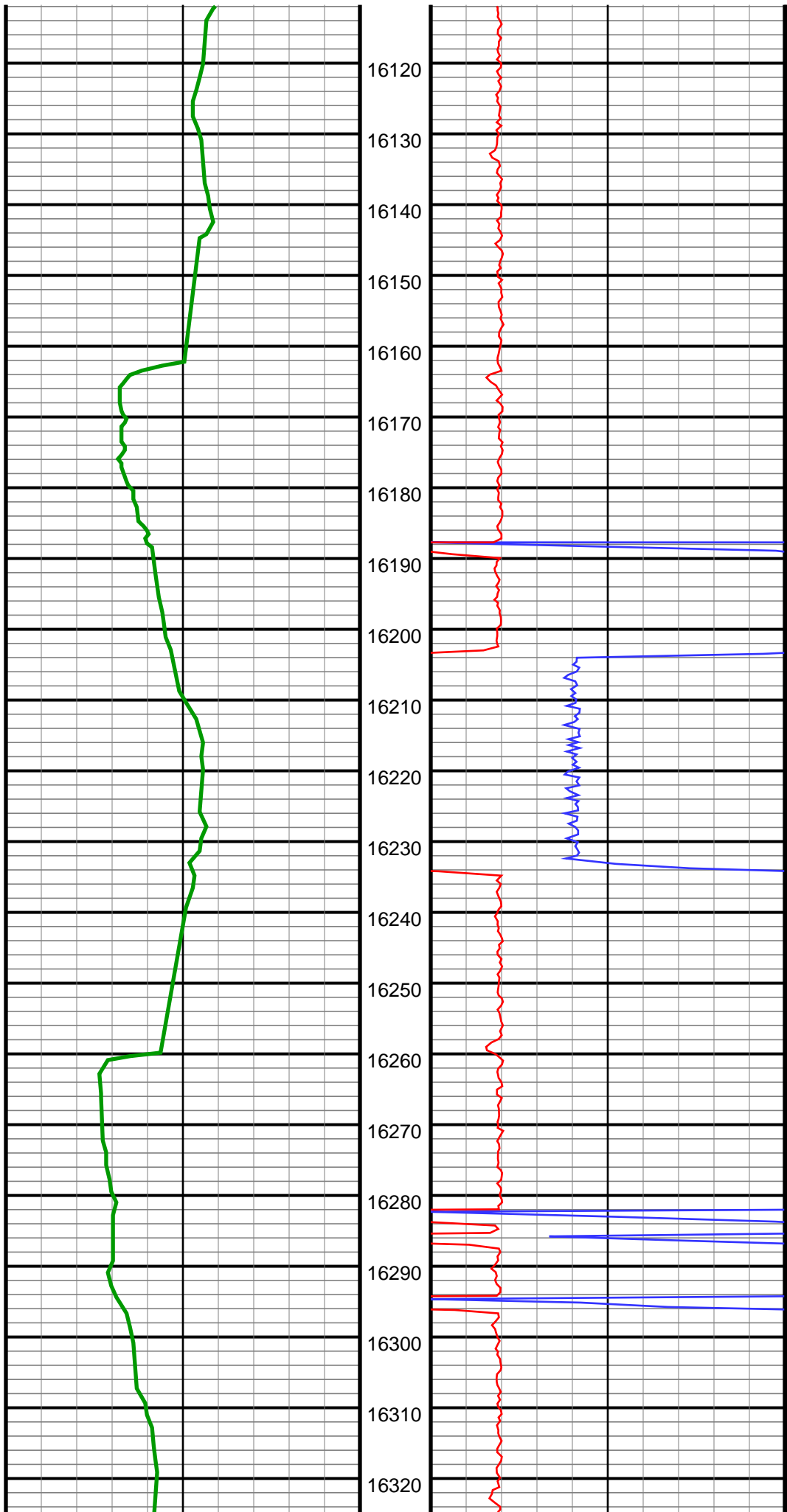


#166 MD(15763.00) Inc(94.7) Azm(177.7) TVD(7092.10)

#167 MD(15857.00) Inc(94.6) Azm(177.2) TVD(7084.48)

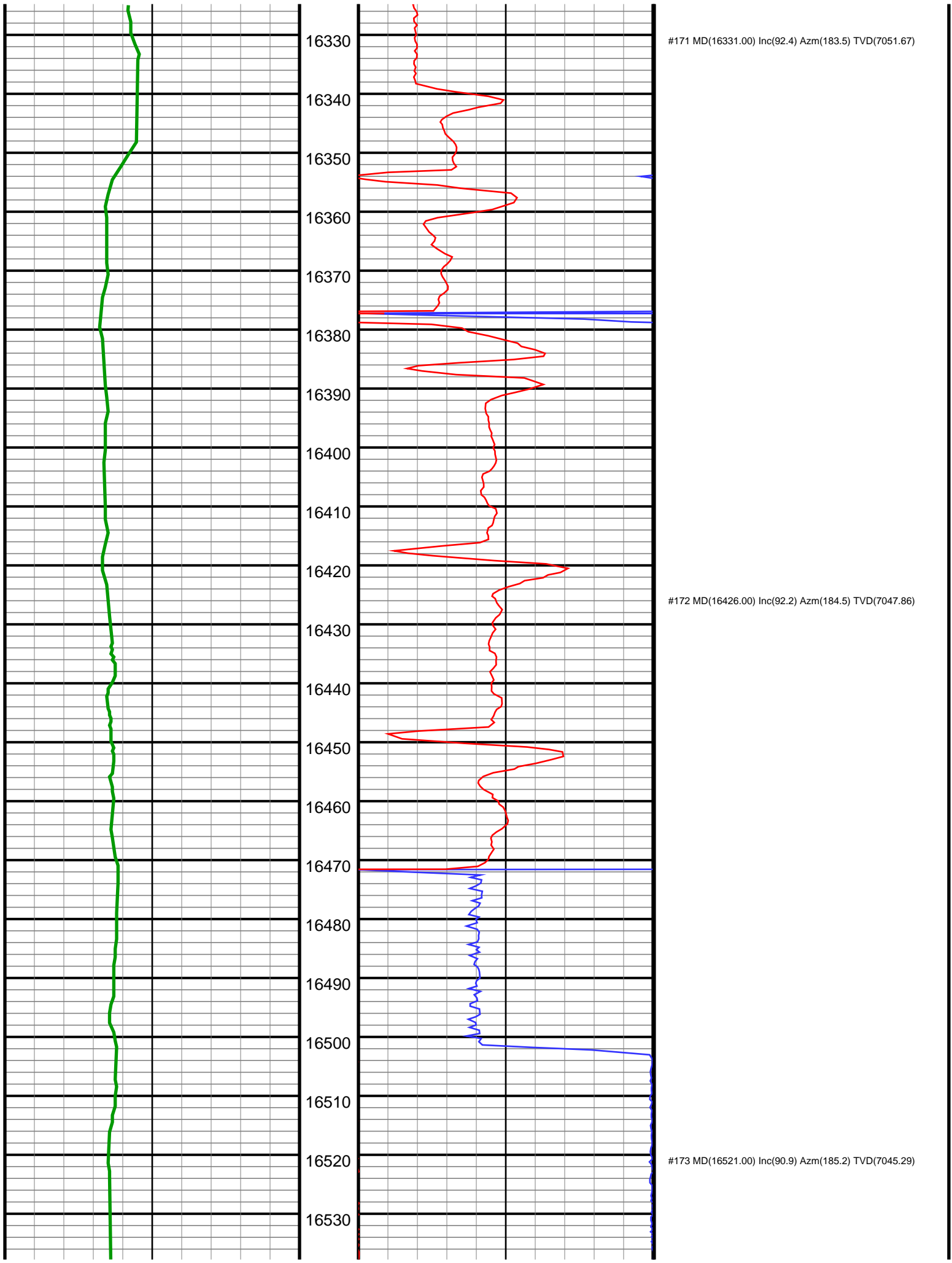


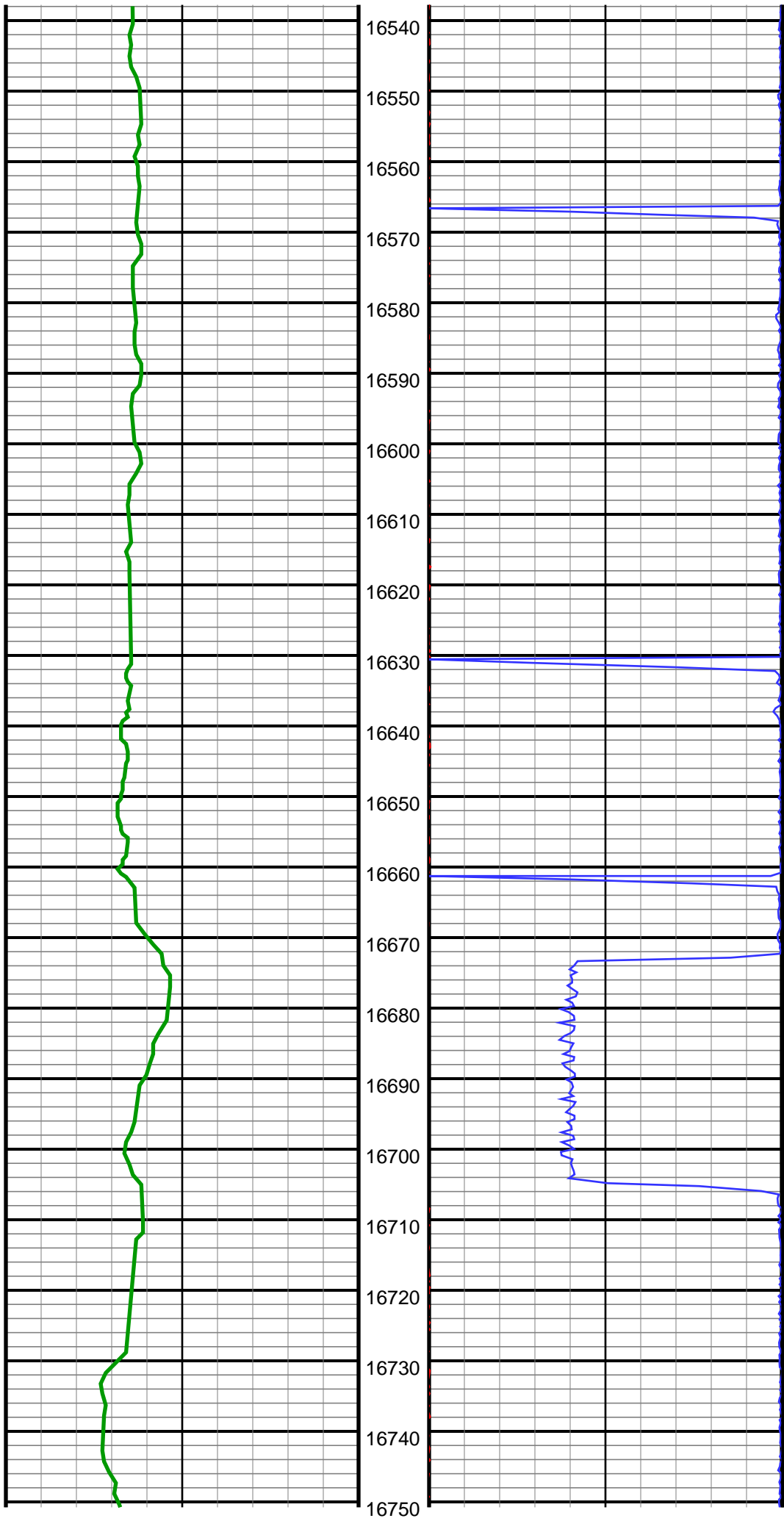
#168 MD(16047.00) Inc(94.5) Azm(179.5) TVD(7069.41)



#169 MD(16141.00) Inc(94.0) Azm(180.9) TVD(7062.44)

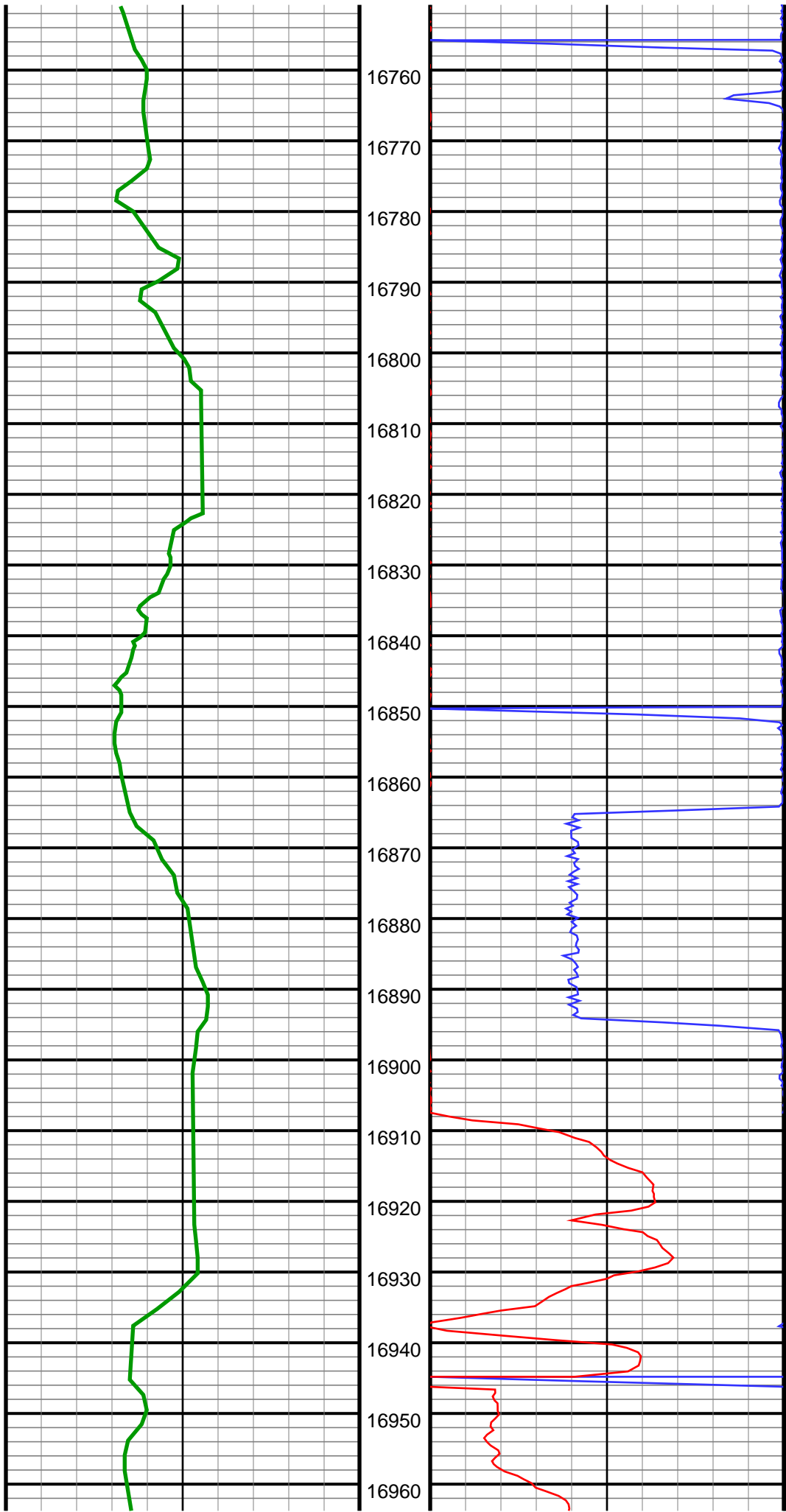
#170 MD(16236.00) Inc(93.3) Azm(182.3) TVD(7056.39)





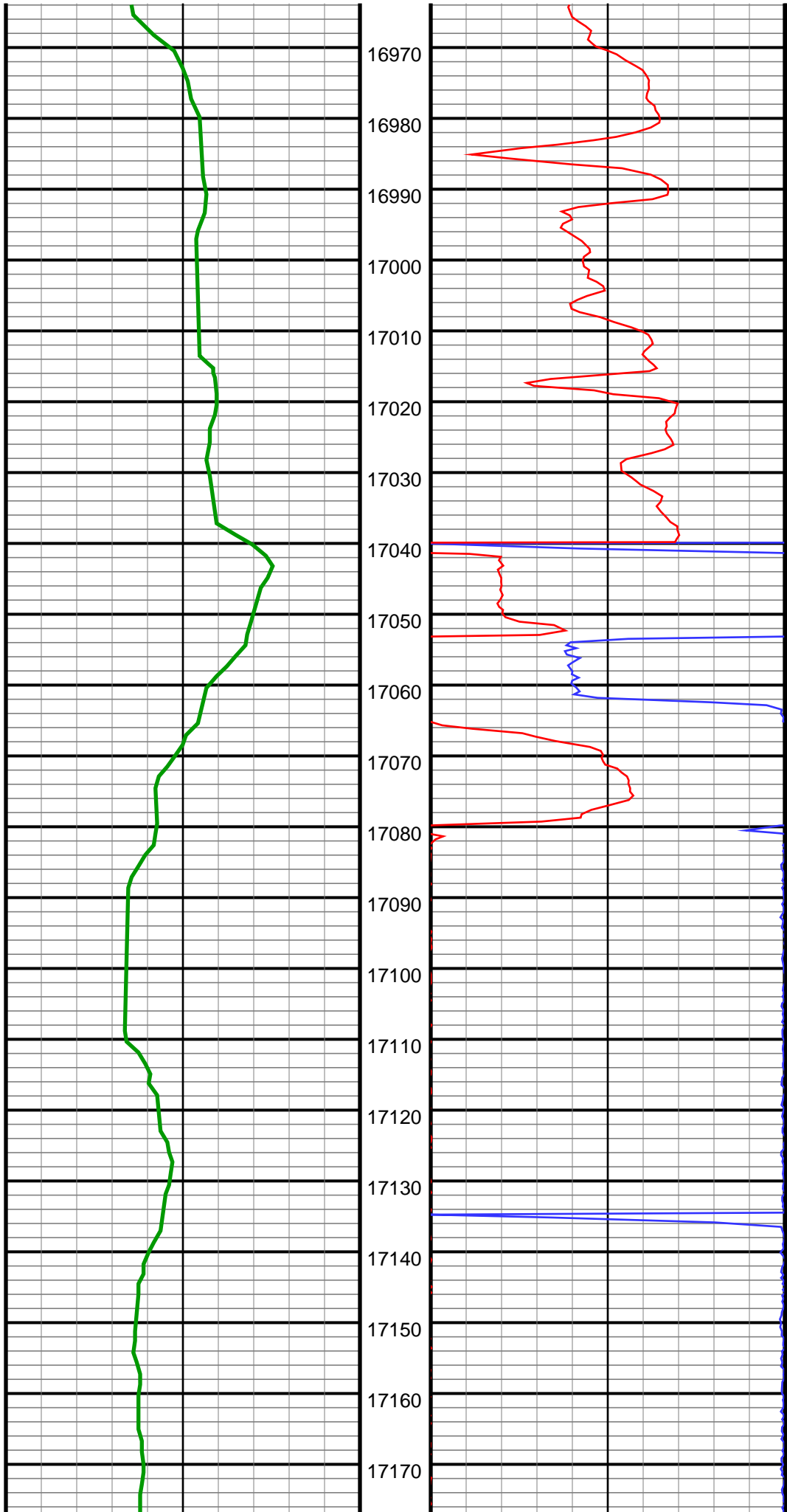
#174 MD(16616.00) Inc(89.6) Azm(185.7) TVD(7044.87)

#175 MD(16710.00) Inc(89.0) Azm(185.4) TVD(7046.02)



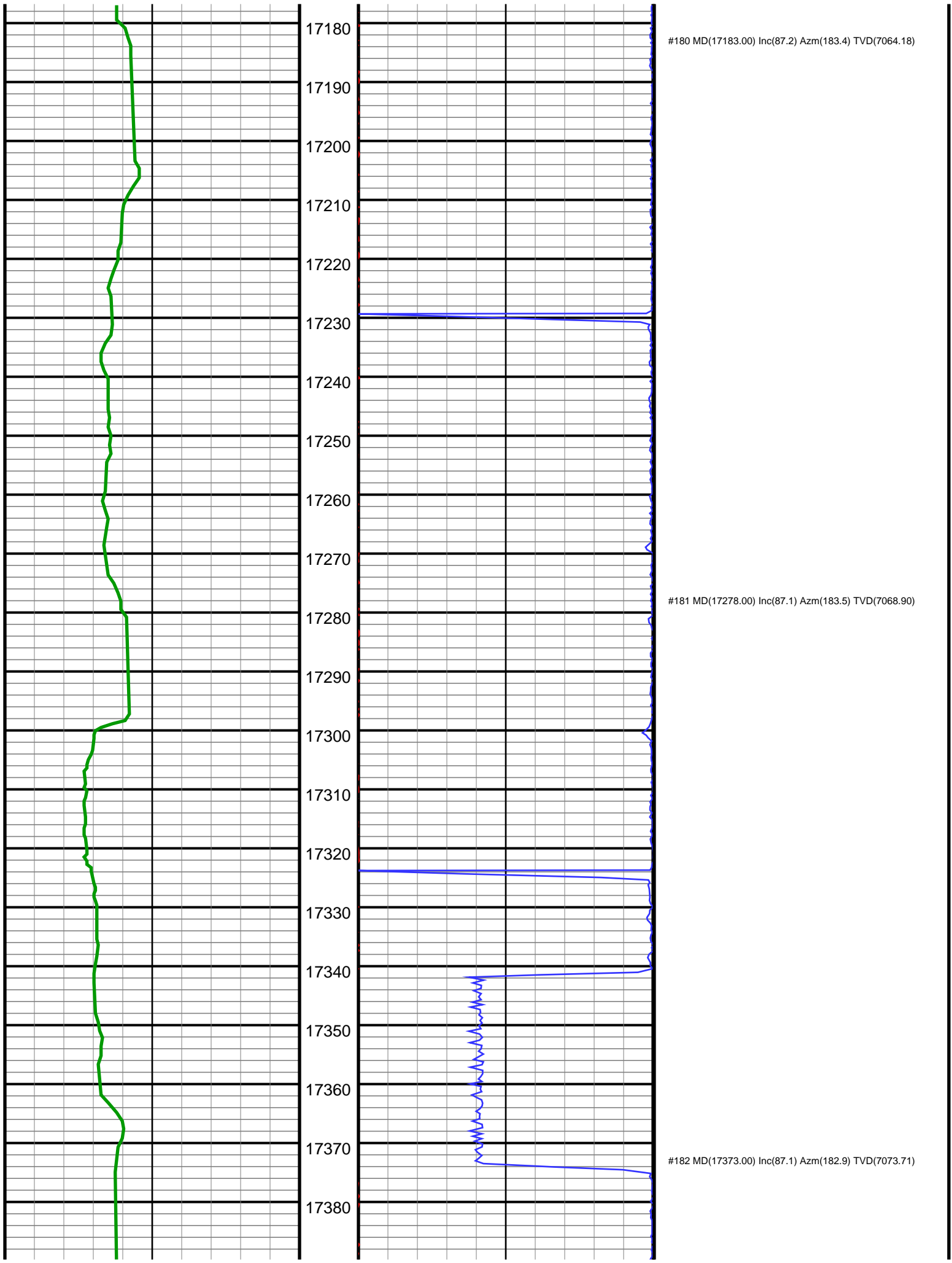
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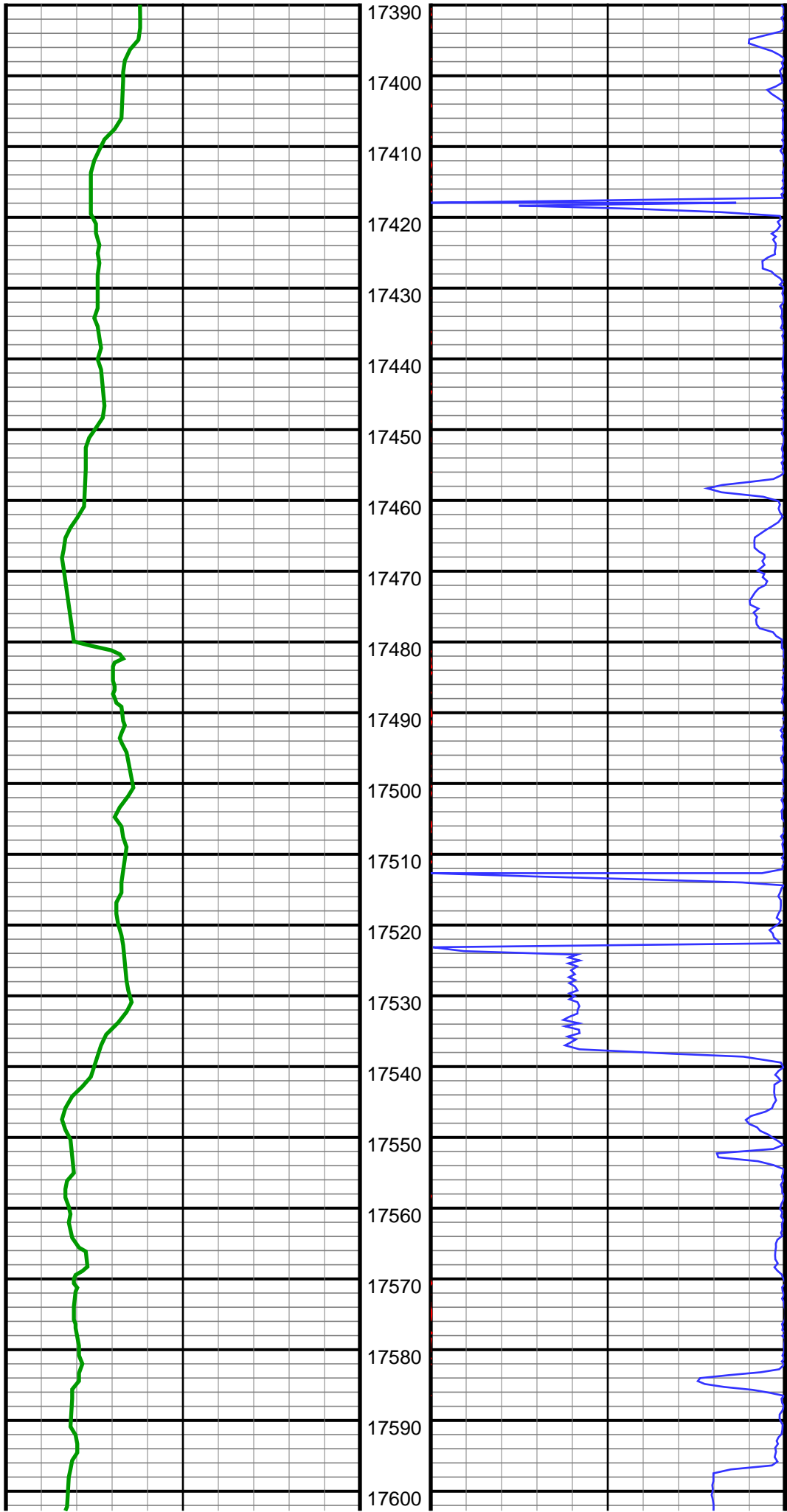
#177 MD(16899.00) Inc(88.0) Azm(182.9) TVD(7051.62)



#178 MD(16993.00) Inc(87.6) Azm(183.6) TVD(7055.23)

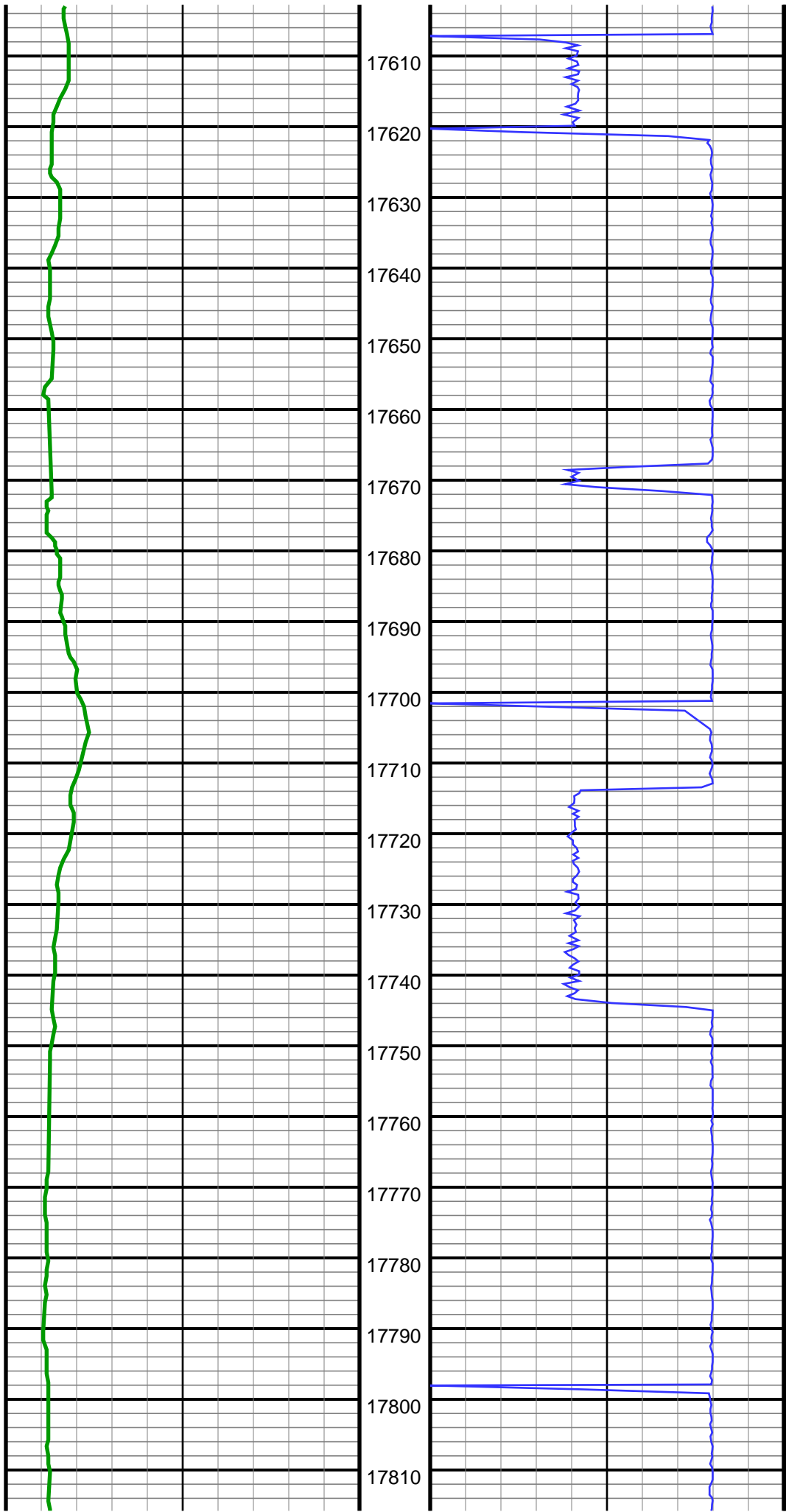
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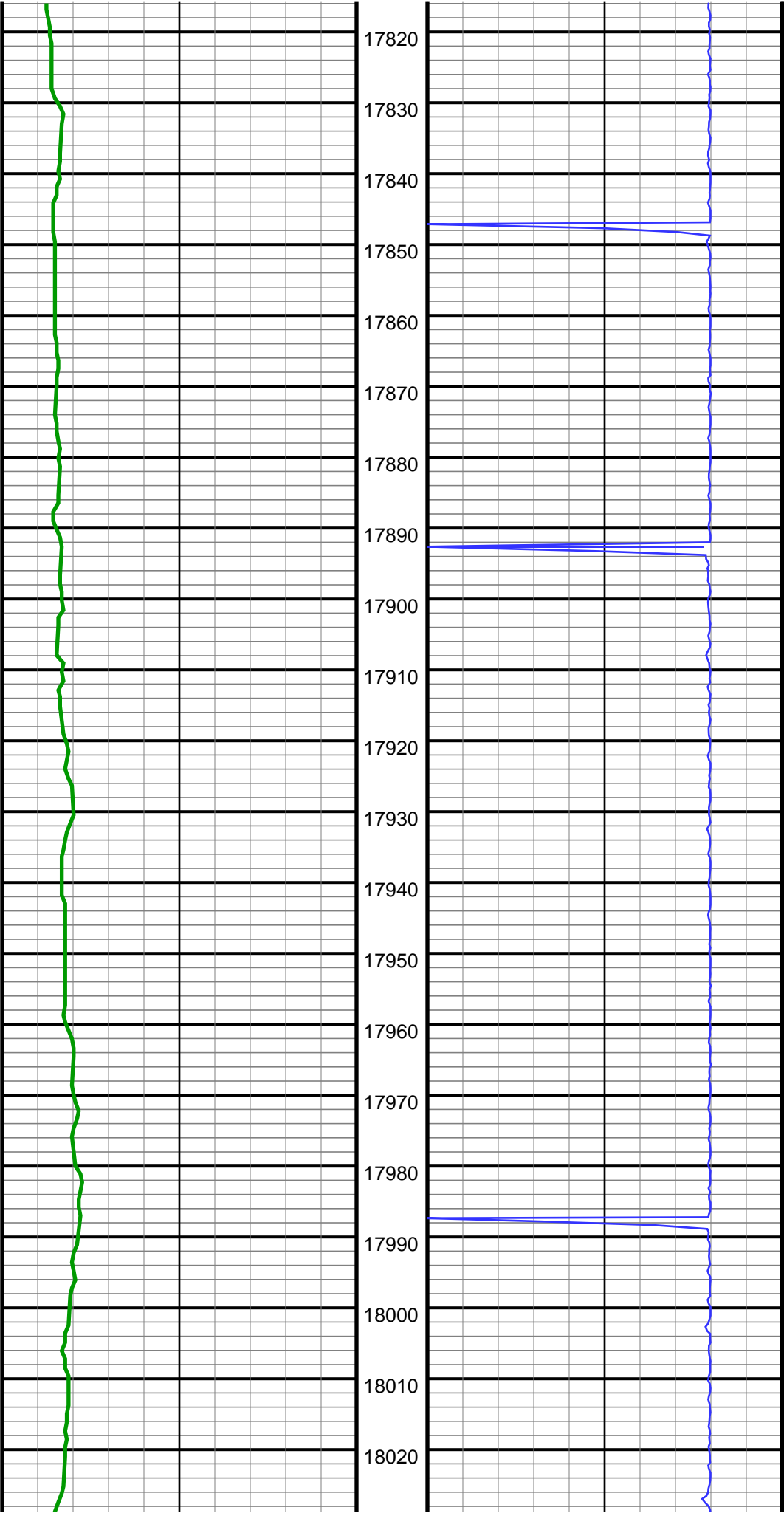
#183 MD(17468.00) Inc(87.7) Azm(182.4) TVD(7078.02)

#184 MD(17563.00) Inc(87.9) Azm(181.3) TVD(7081.67)



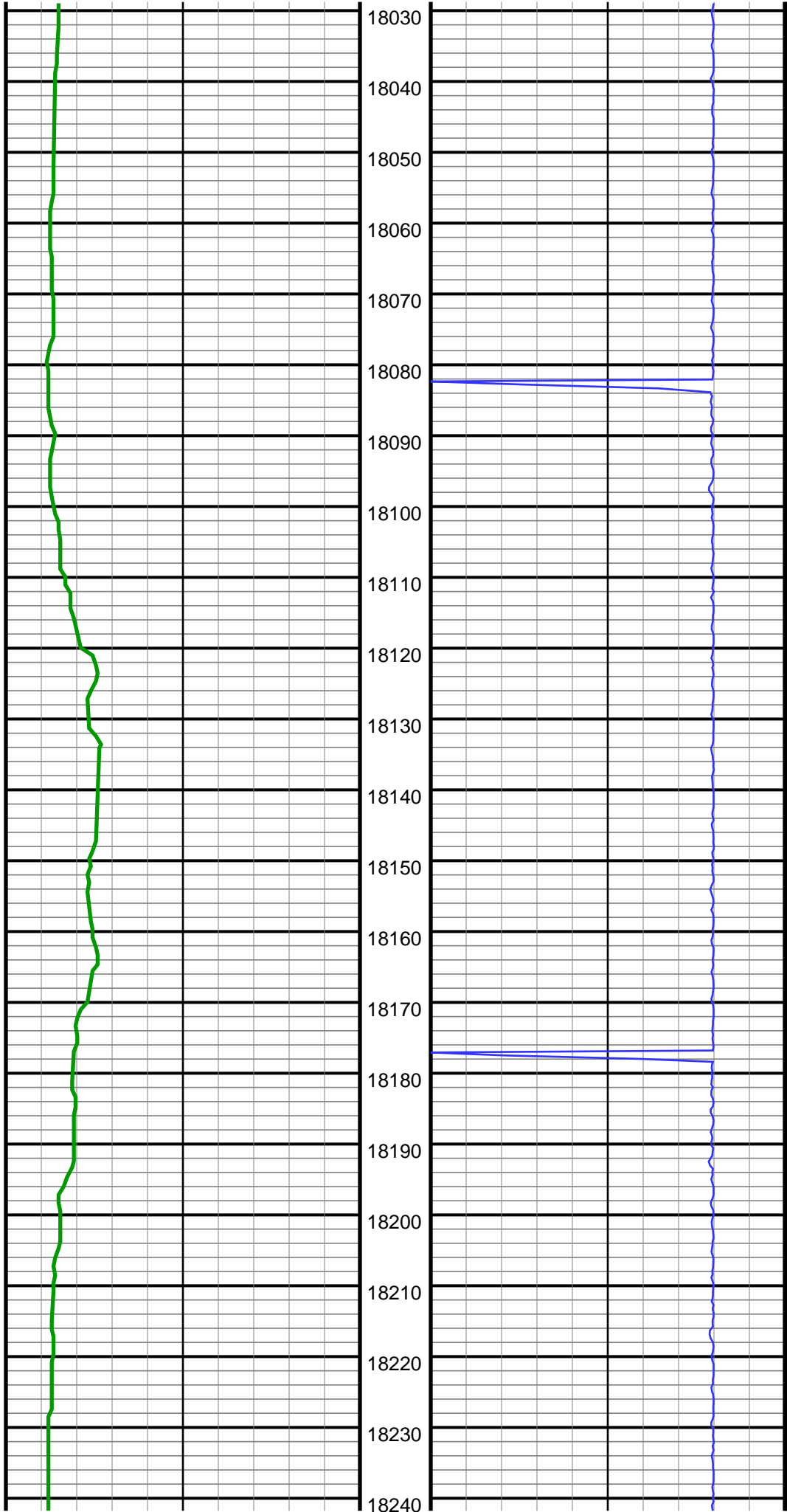
#185 MD(17658.00) Inc(87.9) Azm(179.4) TVD(7085.15)

#186 MD(17753.00) Inc(89.3) Azm(176.4) TVD(7087.47)



#187 MD(17847.00) Inc(89.3) Azm(176.7) TVD(7088.62)

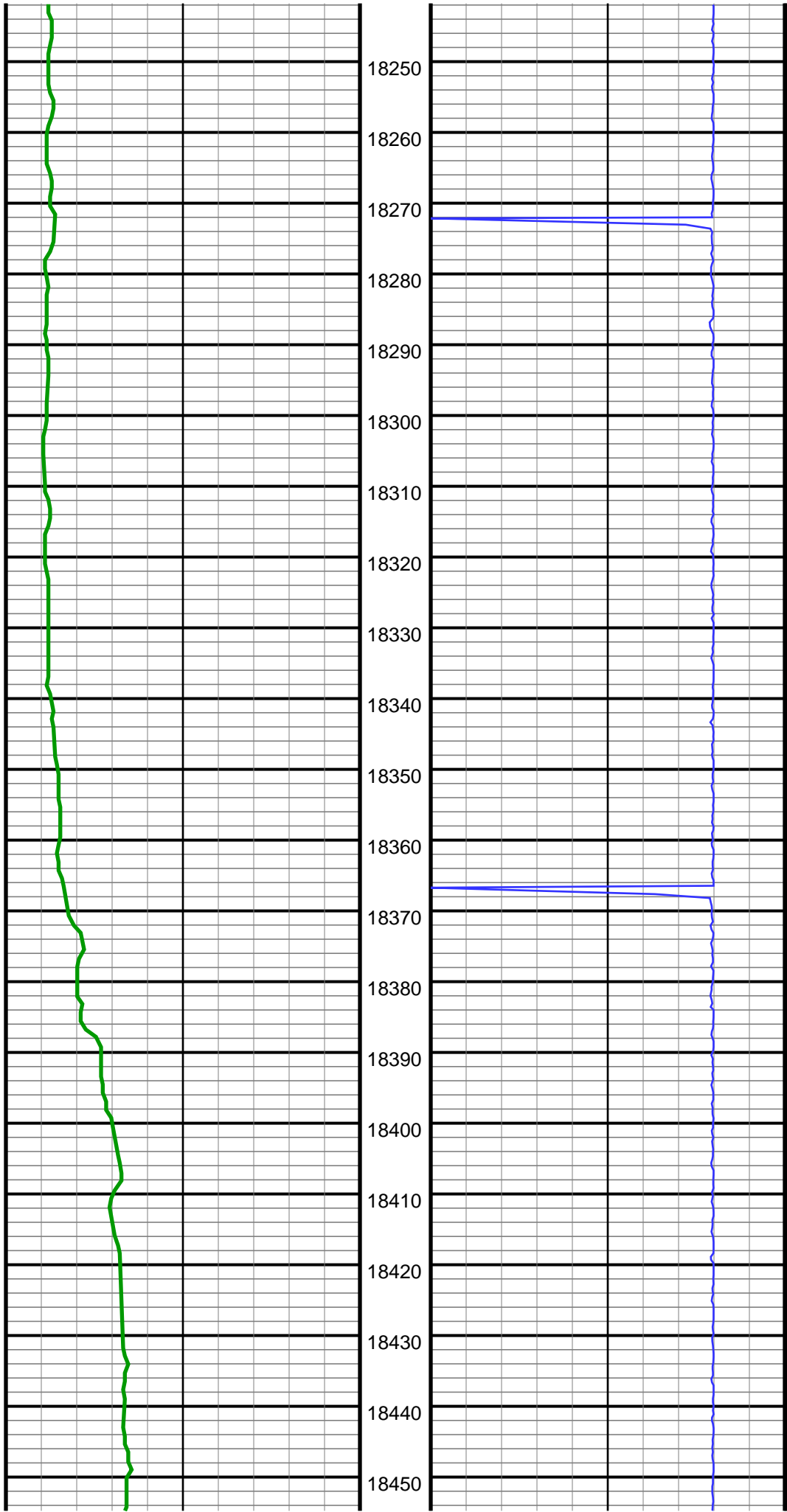
#188 MD(17942.00) Inc(89.4) Azm(177.1) TVD(7089.70)



#189 MD(18036.00) Inc(89.4) Azm(177.6) TVD(7090.68)

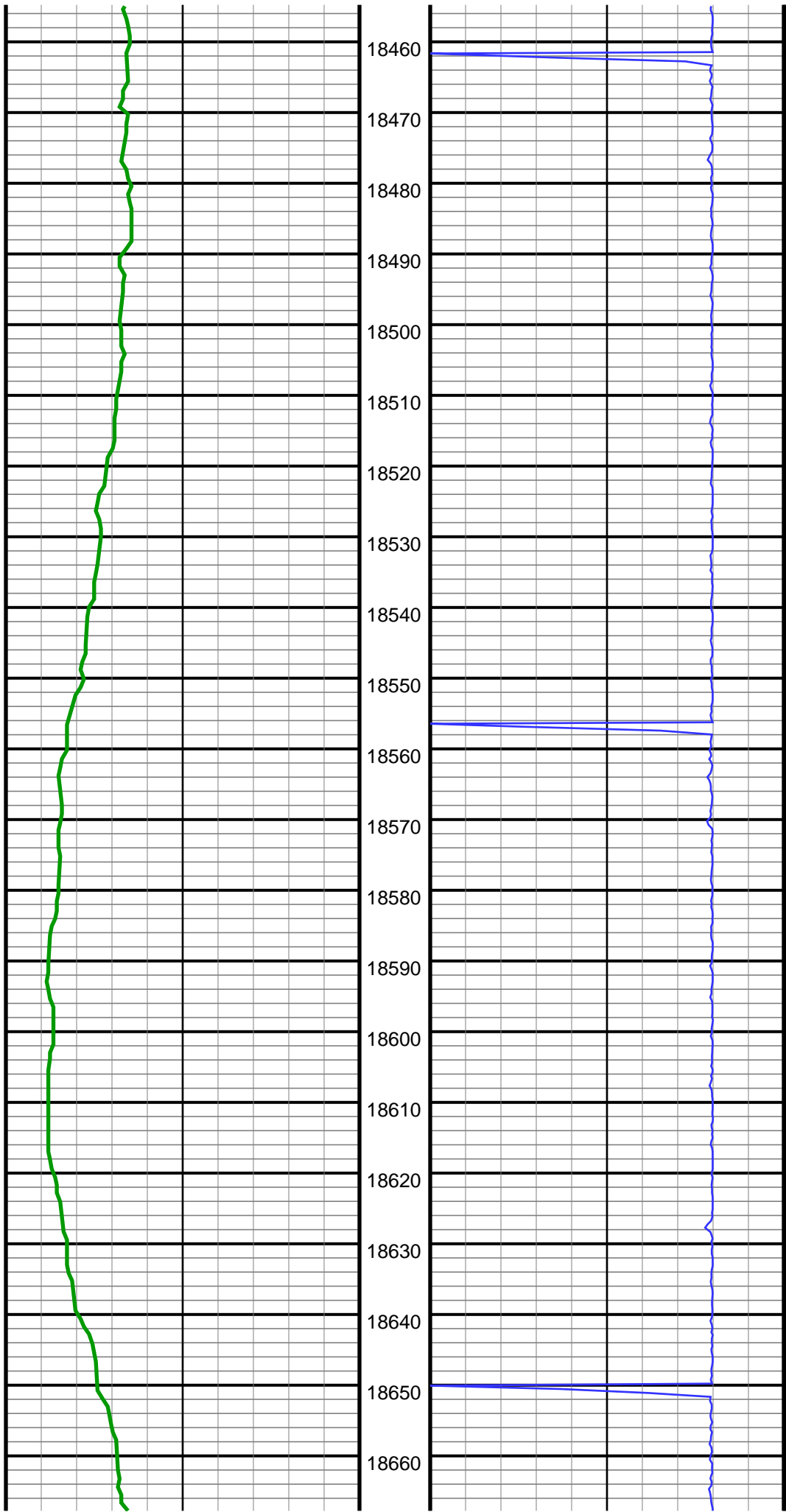
#190 MD(18131.00) Inc(89.3) Azm(177.9) TVD(7091.76)

#191 MD(18226.00) Inc(89.4) Azm(177.9) TVD(7092.84)



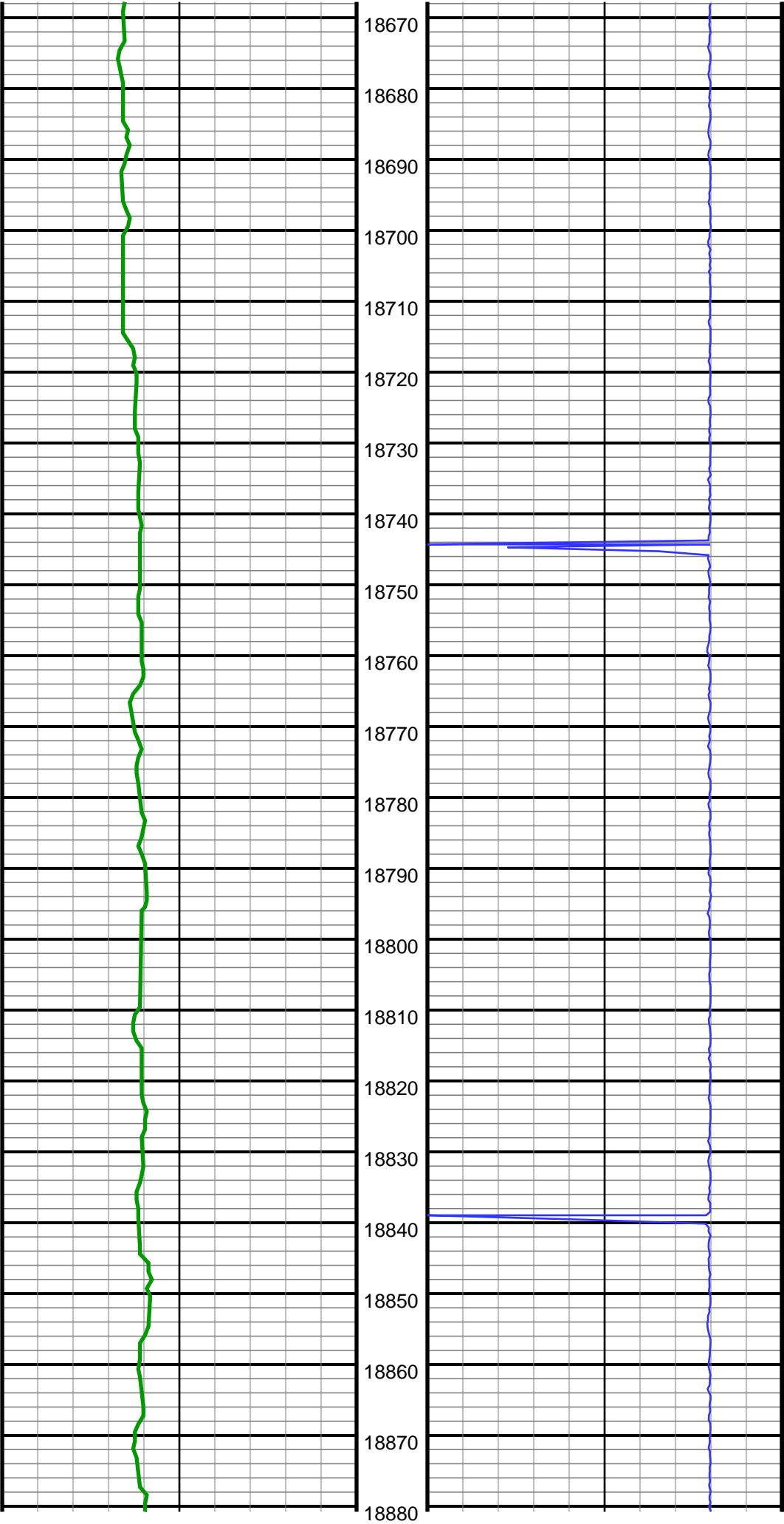
#192 MD(18321.00) Inc(89.3) Azm(177.8) TVD(7093.91)

#193 MD(18415.00) Inc(89.2) Azm(178.4) TVD(7095.14)



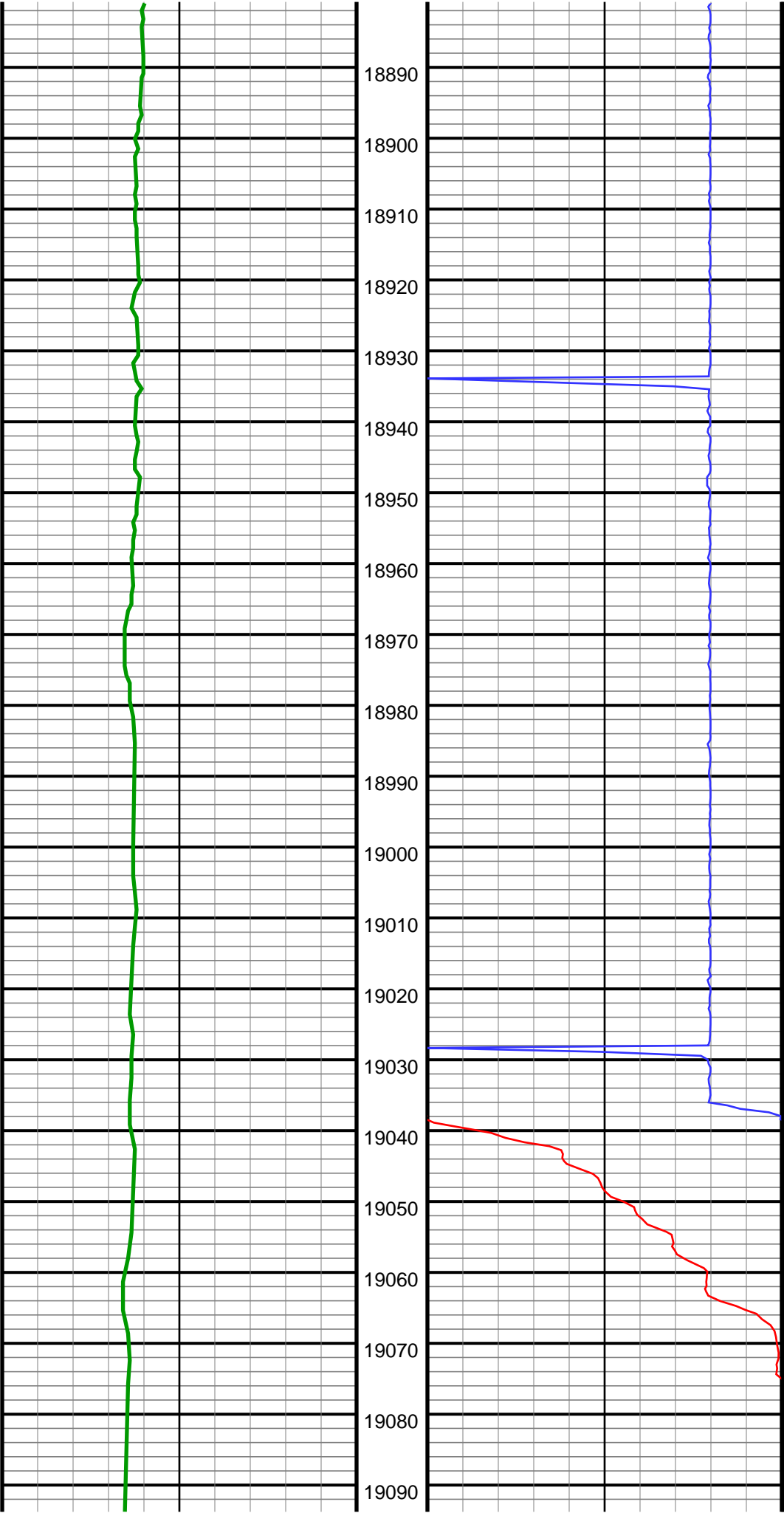
#194 MD(18510.00) Inc(89.2) Azm(178.0) TVD(7096.47)

#195 MD(18604.00) Inc(89.4) Azm(178.9) TVD(7097.62)



#196 MD(18699.00) Inc(89.2) Azm(178.8) TVD(7098.78)

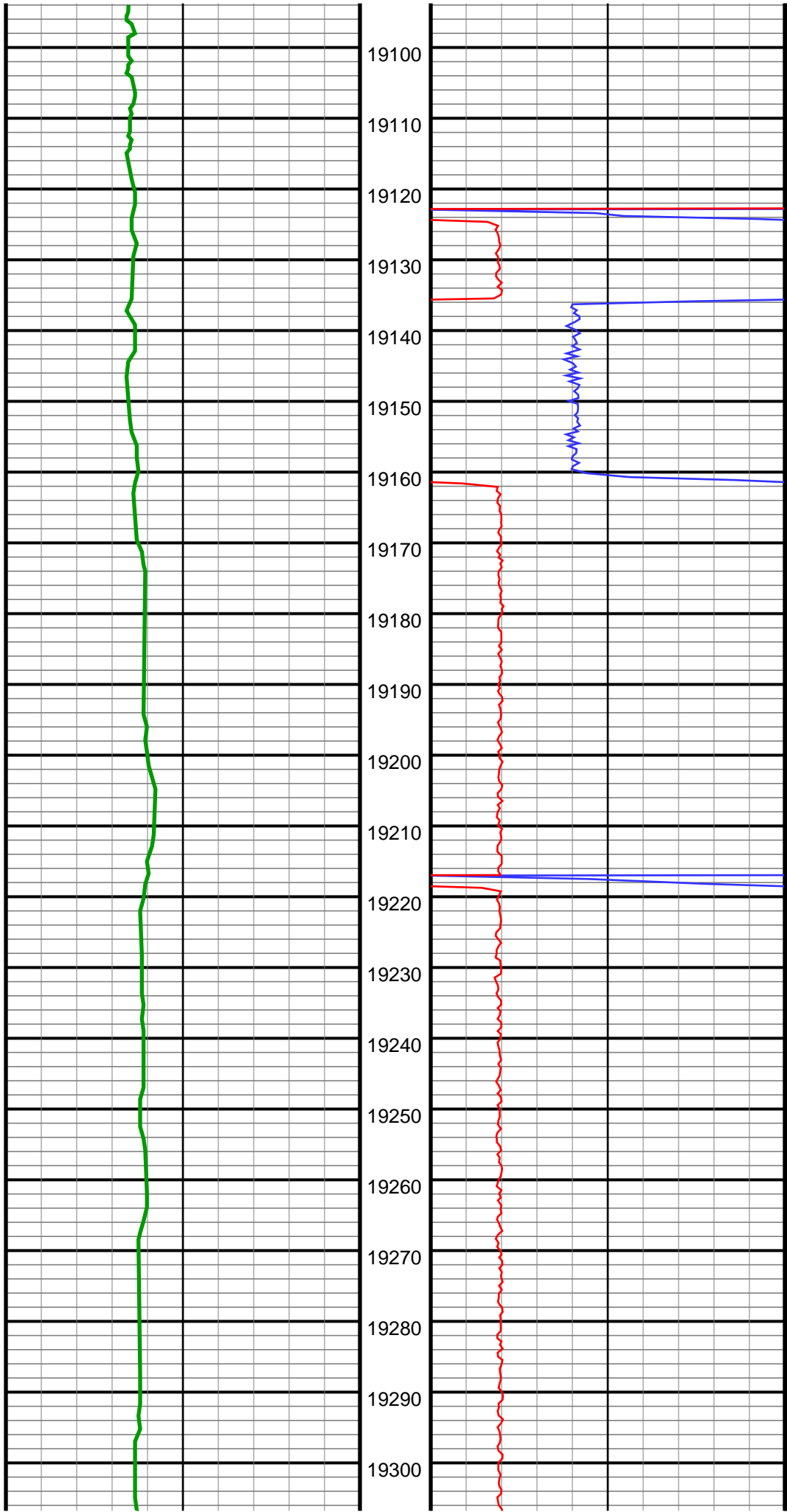
#197 MD(18793.00) Inc(89.2) Azm(178.6) TVD(7100.09)



#198 MD(18888.00) Inc(89.2) Azm(178.4) TVD(7101.42)

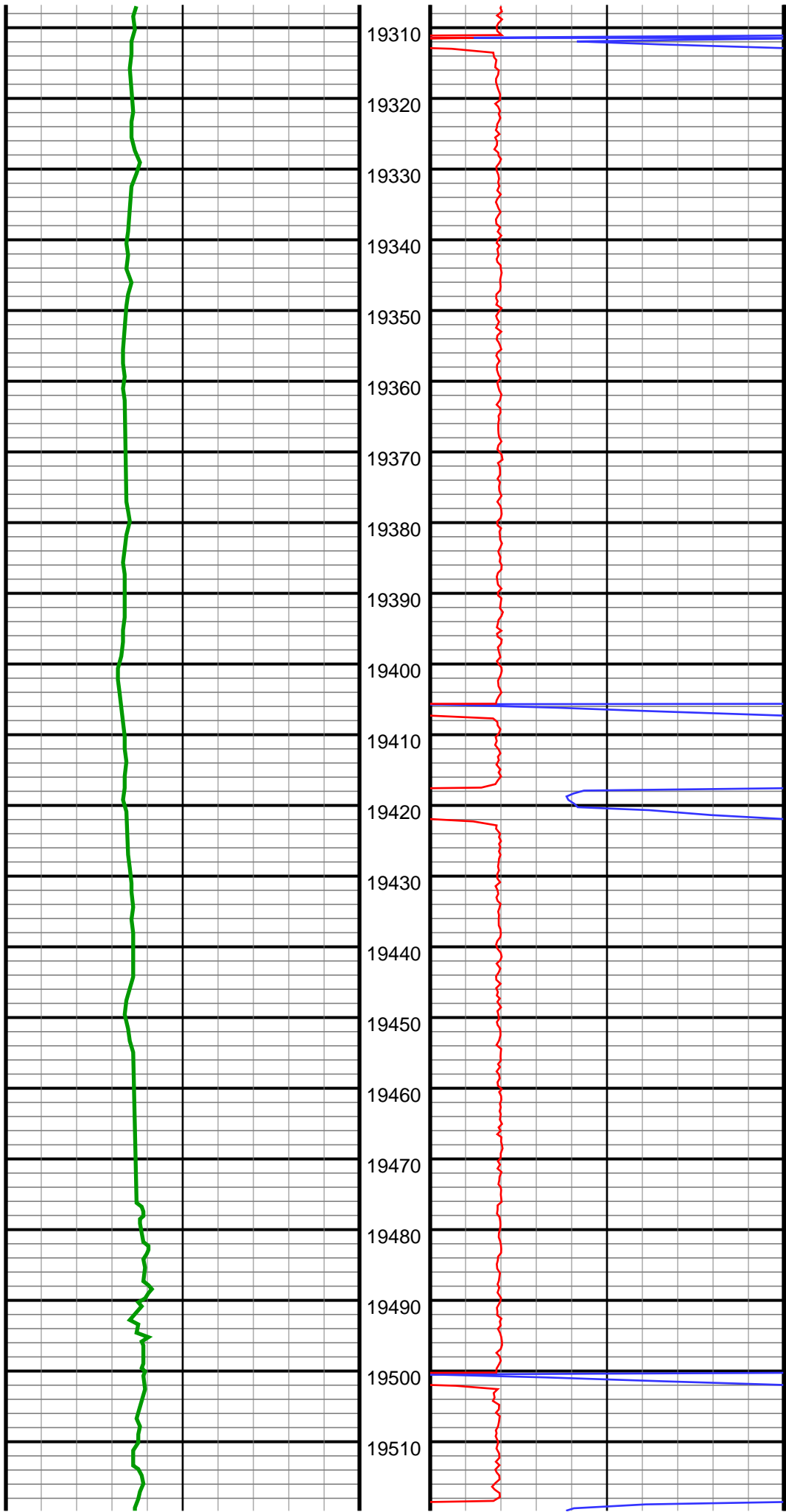
#199 MD(18983.00) Inc(90.1) Azm(177.4) TVD(7102.00)

#200 MD(19077.00) Inc(90.1) Azm(177.0) TVD(7101.83)



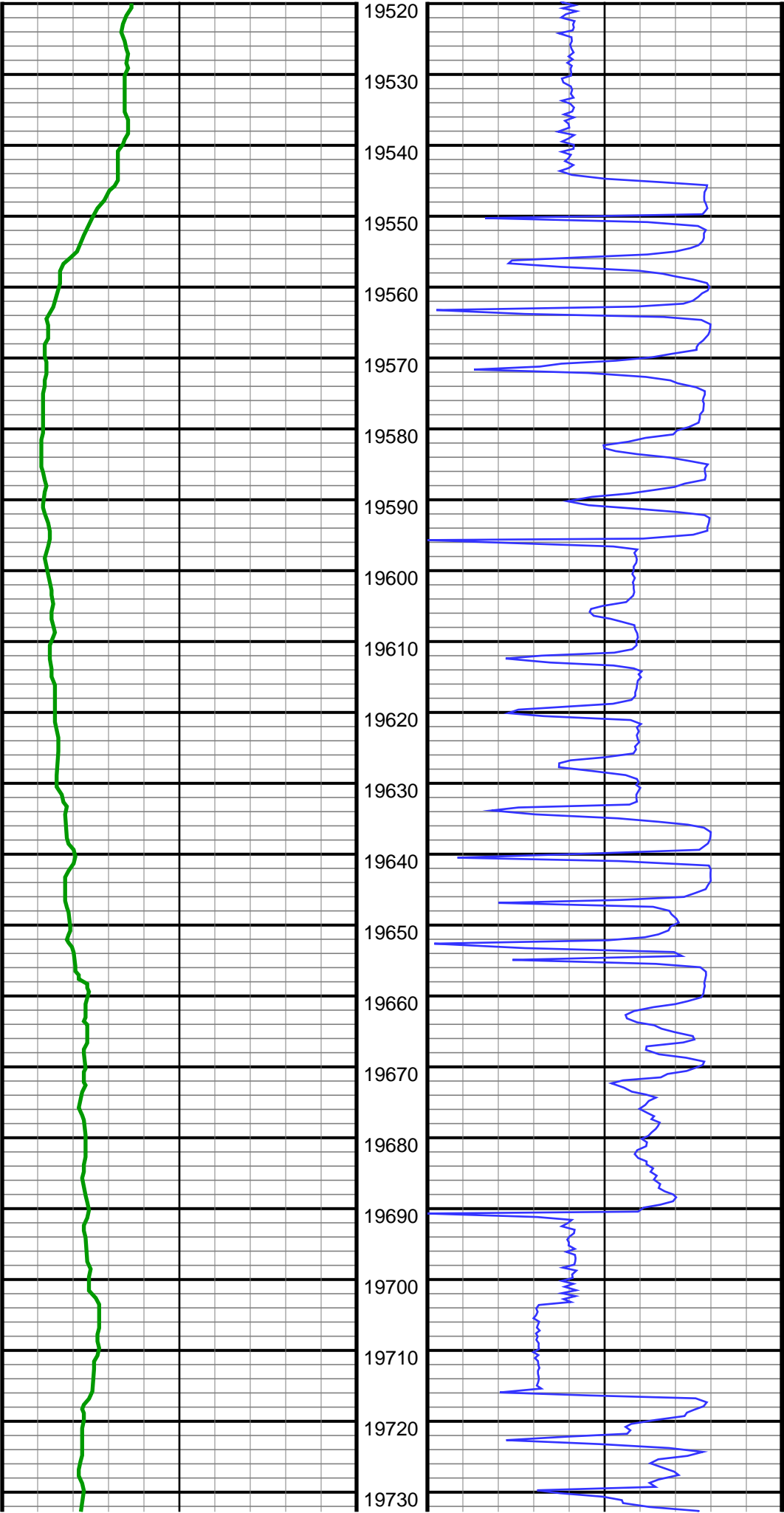
#201 MD(19172.00) Inc(90.2) Azm(176.9) TVD(7101.59)

#202 MD(19266.00) Inc(90.1) Azm(177.2) TVD(7101.34)



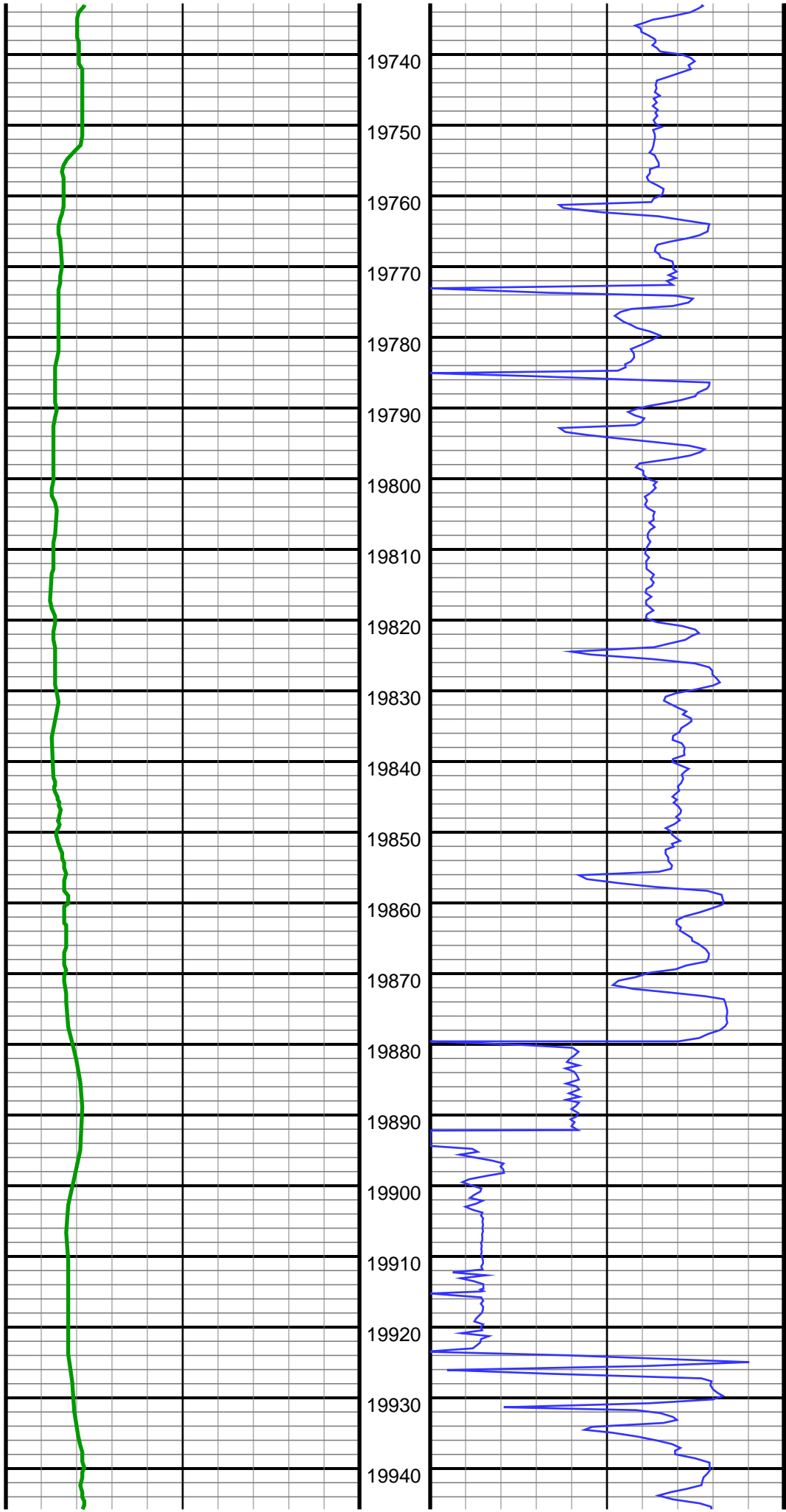
#203 MD(19361.00) Inc(90.1) Azm(177.3) TVD(7101.17)

#204 MD(19455.00) Inc(90.1) Azm(177.4) TVD(7101.01)



#205 MD(19550.00) Inc(90.2) Azm(177.0) TVD(7100.76)

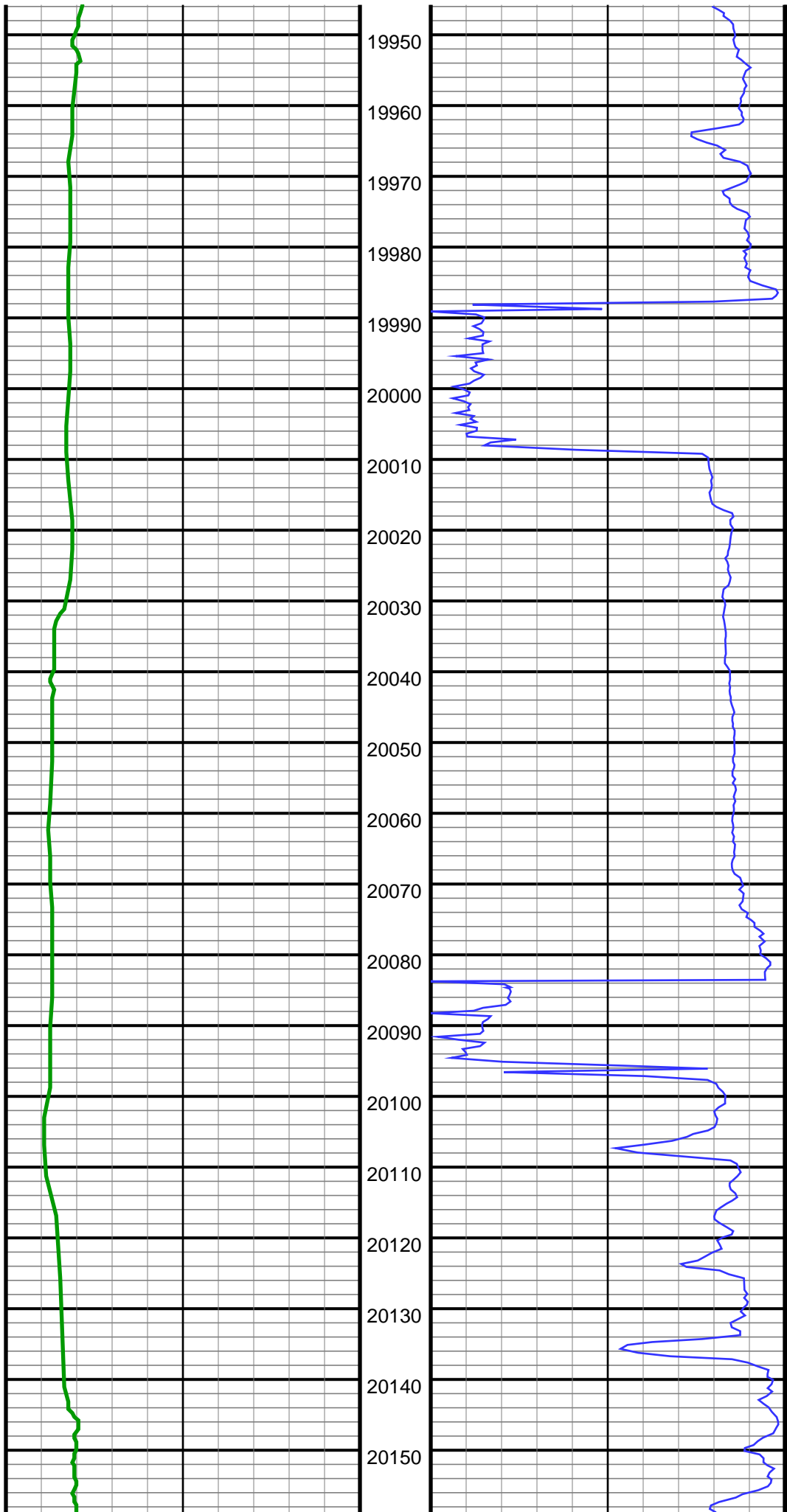
#206 MD(19645.00) Inc(90.7) Azm(176.3) TVD(7100.01)



#207 MD(19739.00) Inc(91.3) Azm(176.6) TVD(7098.37)

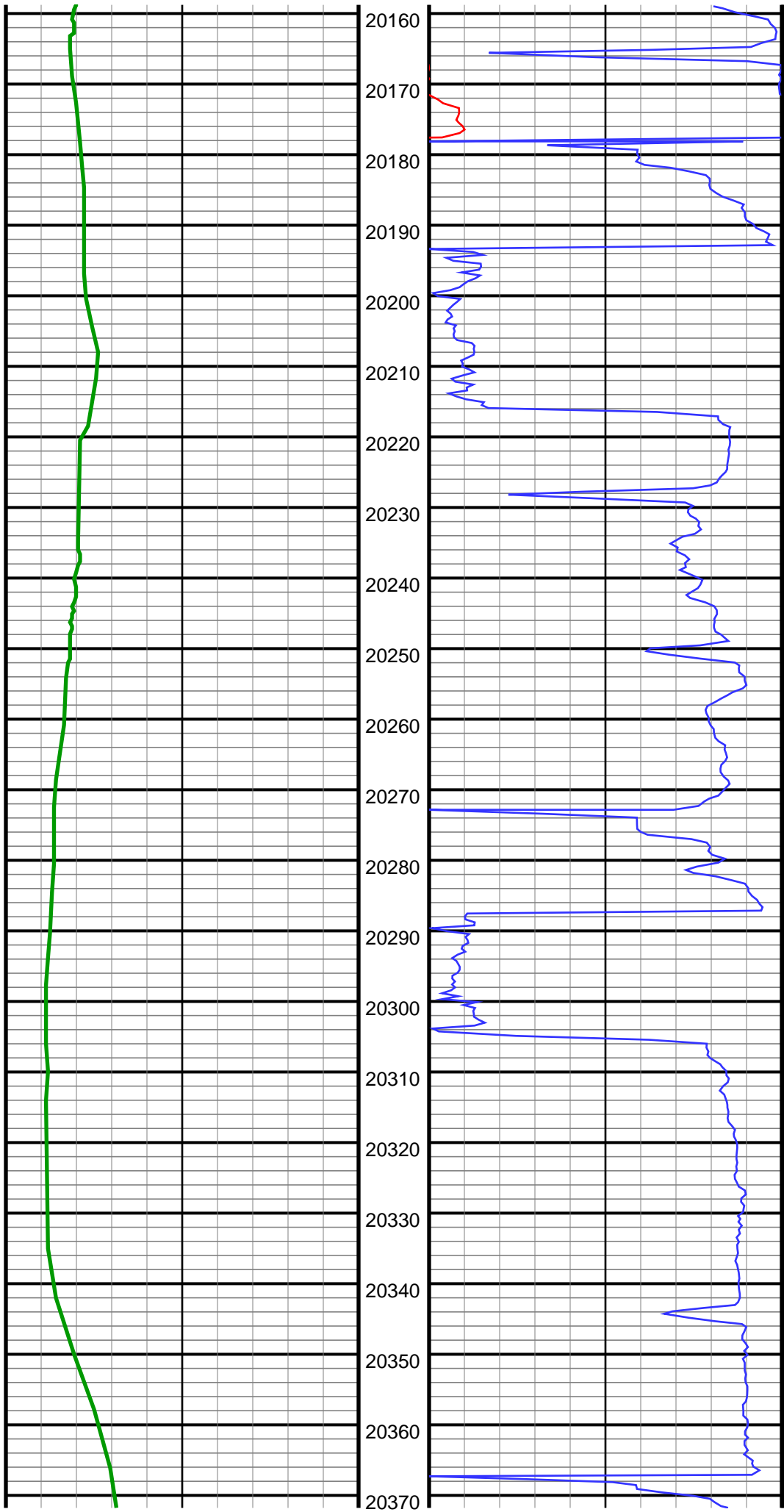
#208 MD(19833.00) Inc(92.0) Azm(176.7) TVD(7095.67)

#209 MD(19932.00) Inc(89.5) Azm(178.1) TVD(7094.37)



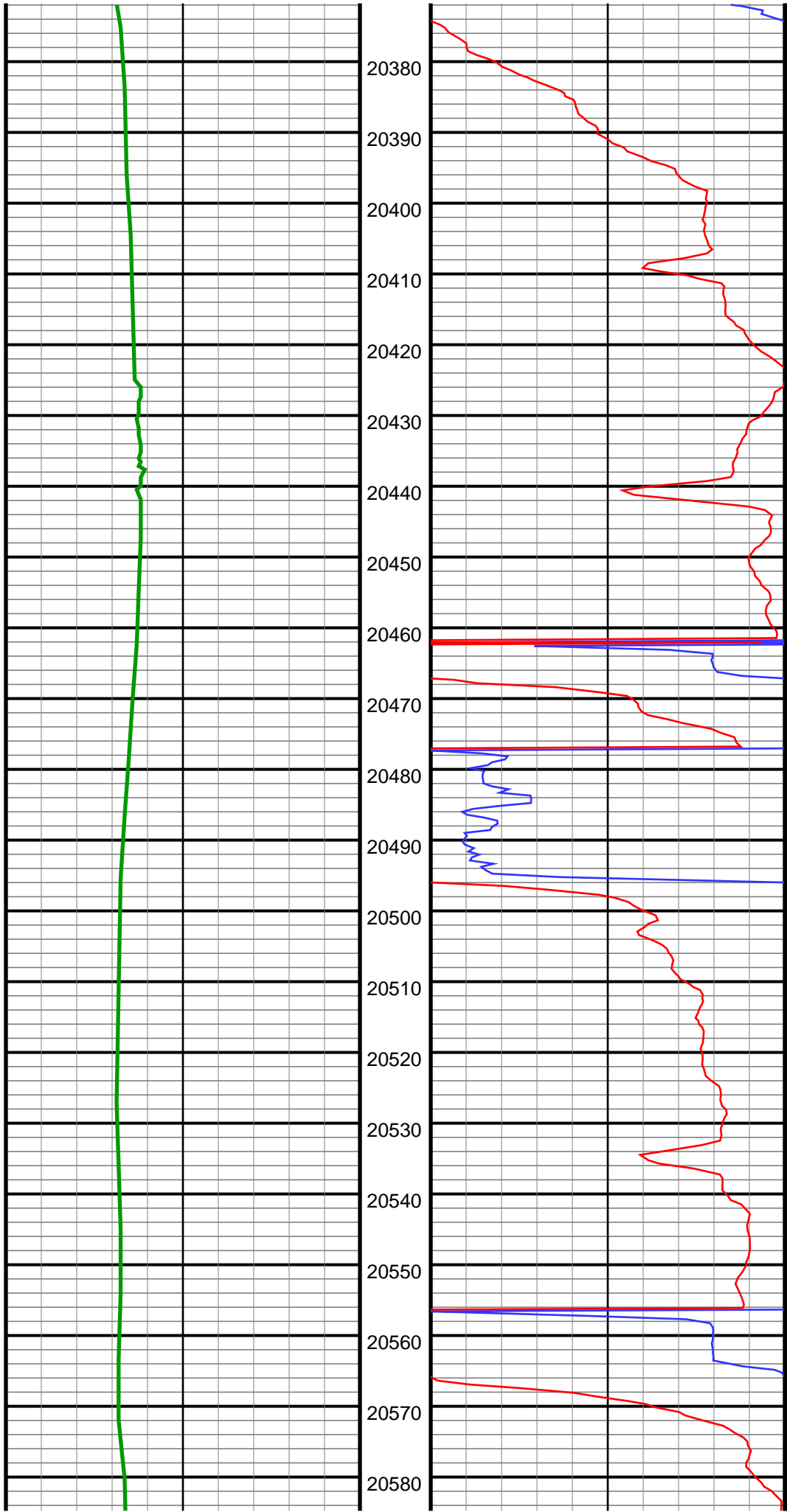
#210 MD(20027.00) Inc(88.6) Azm(179.1) TVD(7095.95)

#211 MD(20122.00) Inc(88.8) Azm(178.2) TVD(7098.10)



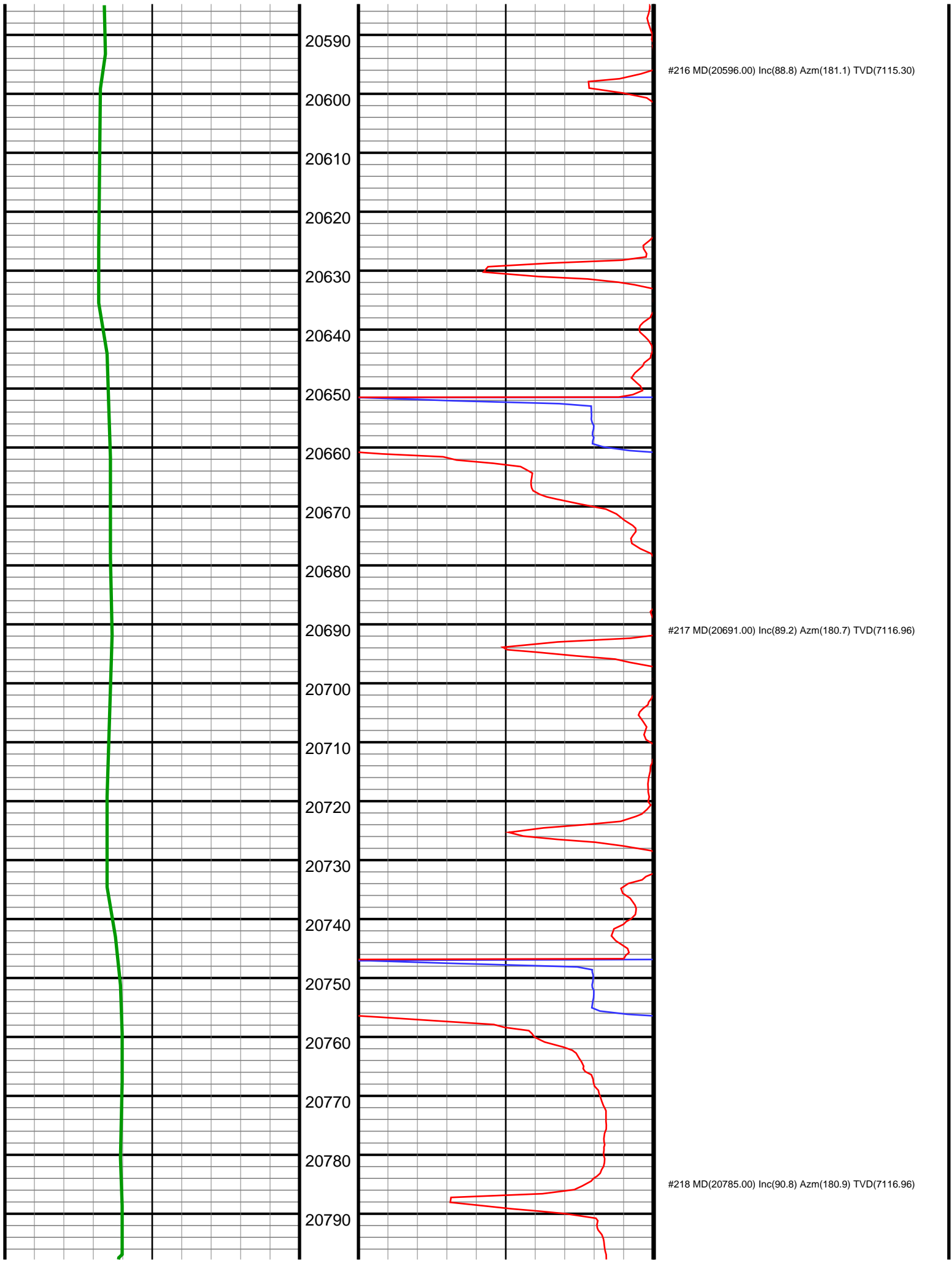
#212 MD(20217.00) Inc(88.0) Azm(179.8) TVD(7100.75)

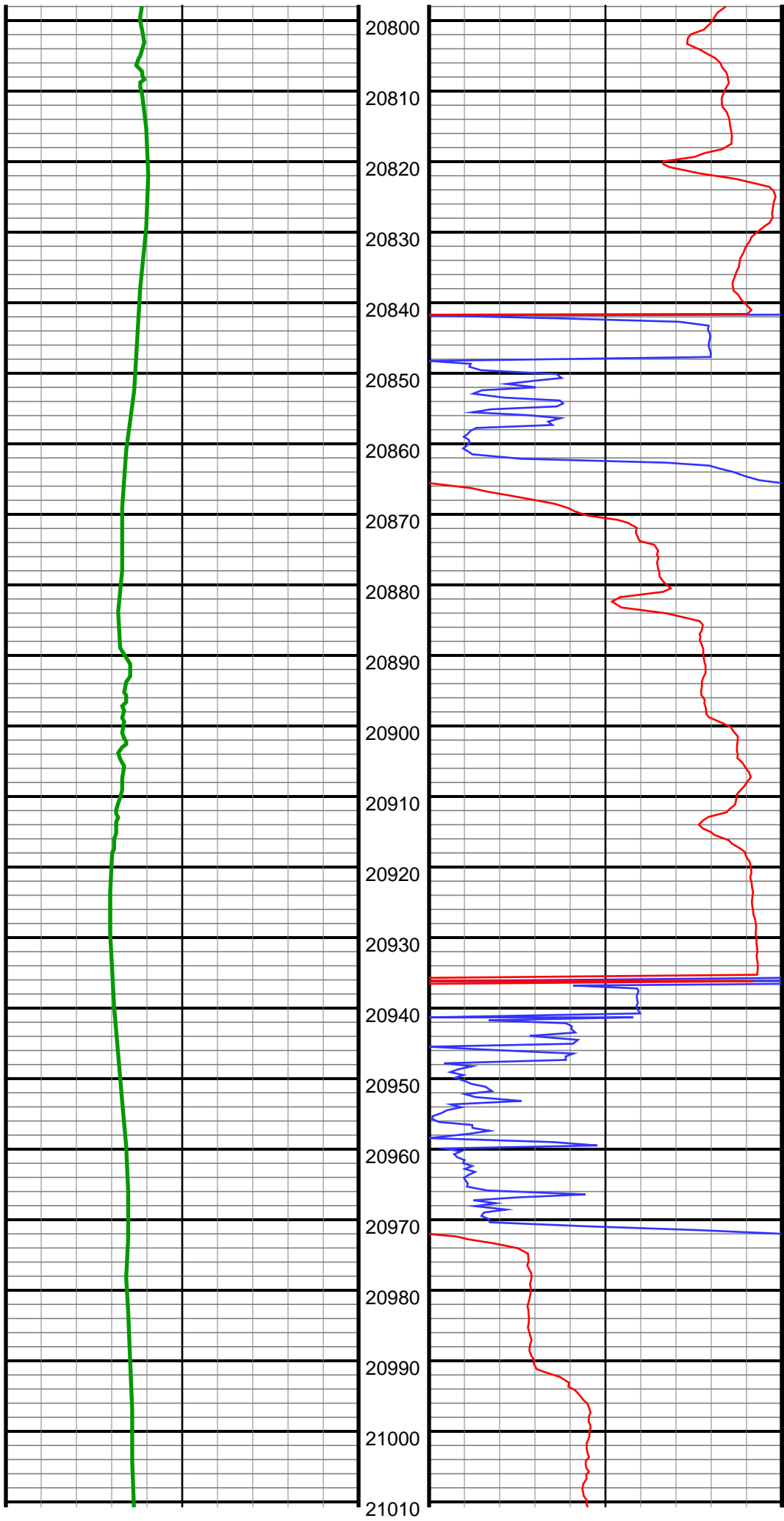
#213 MD(20312.00) Inc(87.3) Azm(181.1) TVD(7104.65)



#214 MD(20407.00) Inc(87.1) Azm(180.6) TVD(7109.29)

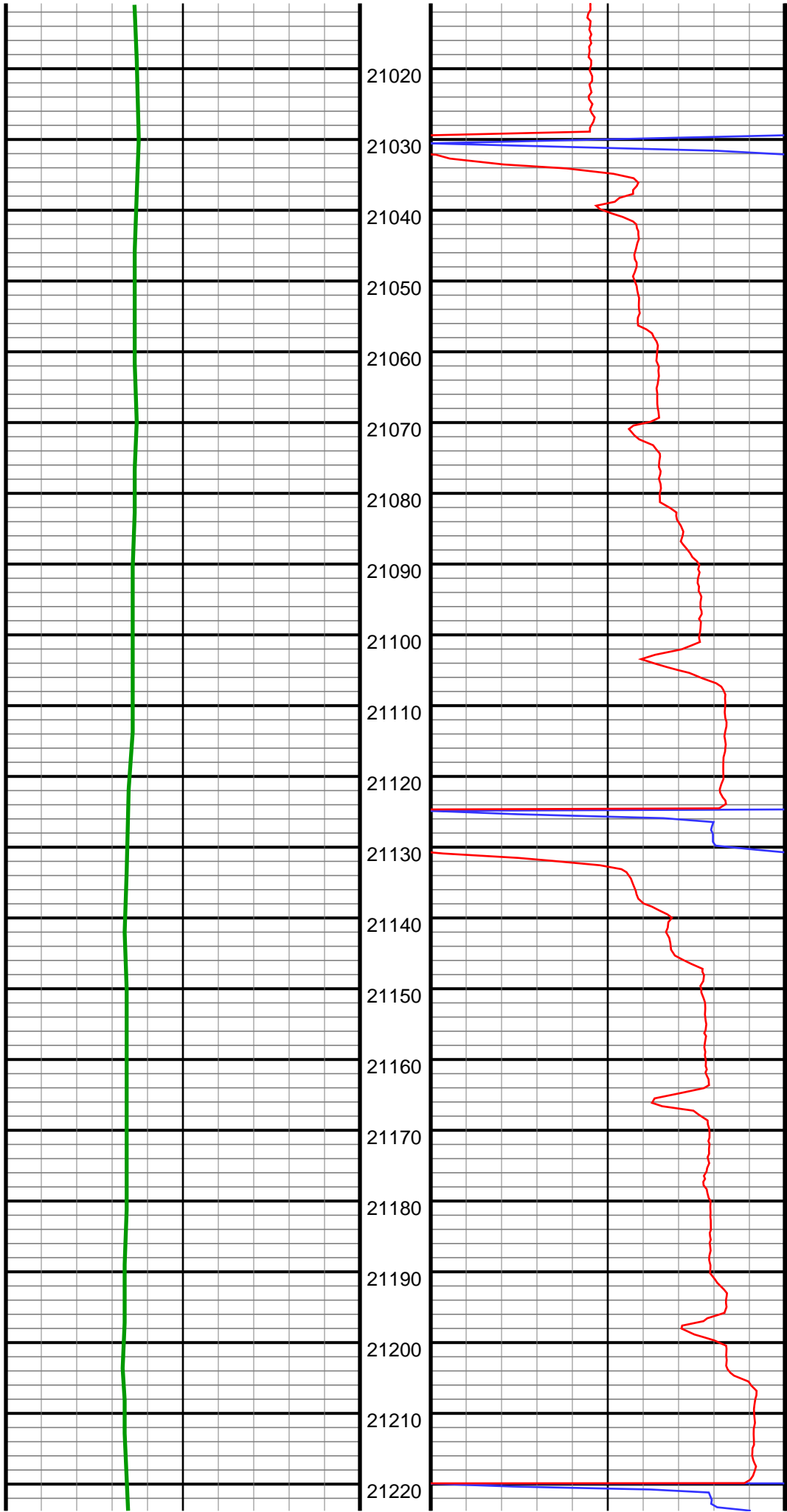
#215 MD(20501.00) Inc(88.4) Azm(181.1) TVD(7112.98)





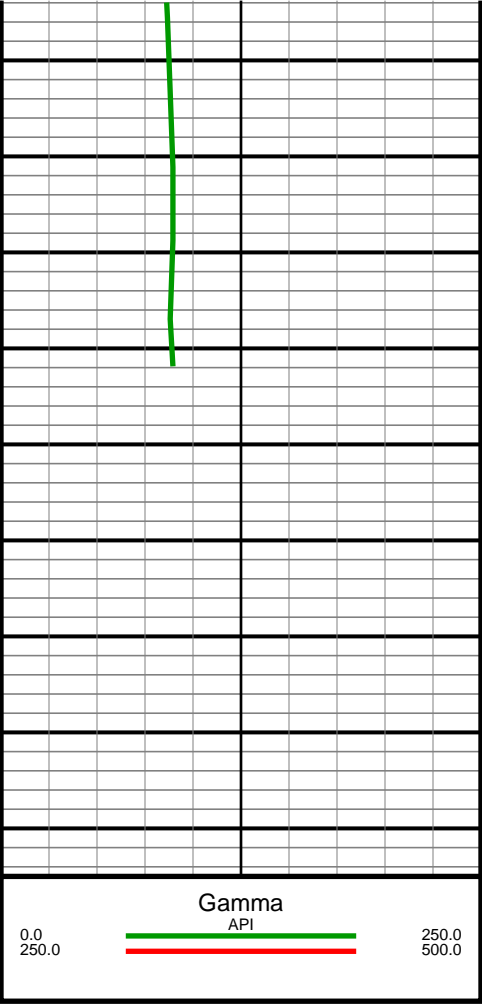
#219 MD(20880.00) Inc(91.8) Azm(181.7) TVD(7114.80)

#220 MD(20974.00) Inc(90.1) Azm(181.4) TVD(7113.25)

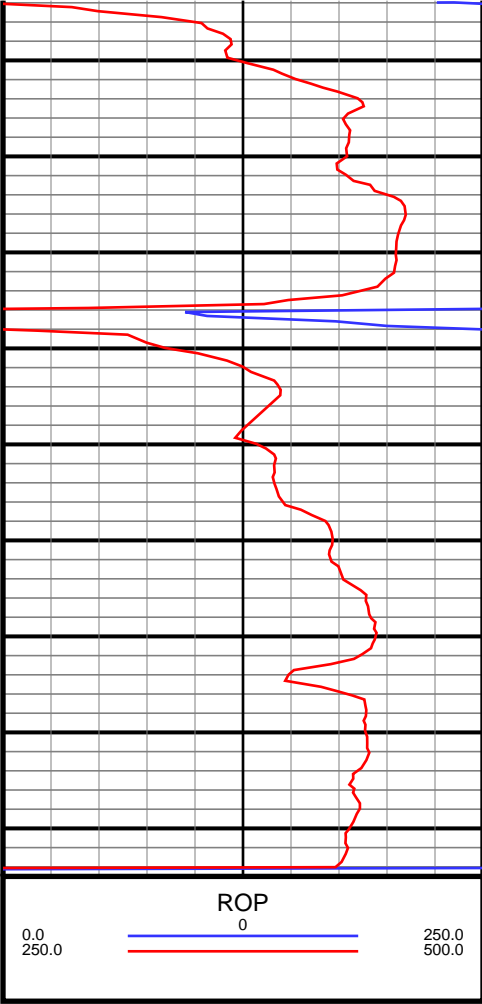


#221 MD(21069.00) Inc(90.3) Azm(180.1) TVD(7112.91)

#222 MD(21164.00) Inc(91.1) Azm(179.0) TVD(7111.75)



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#223 MD(21256.00) Inc(91.9) Azm(178.0) TVD(7109.35)