



Extraction\_Ensign 147\_Coyote Trails 33W-15-1N

MD  
5":100'

Company: Extraction Oil & Gas

Well Name: Coyote Trails 33W-15-1N

API: 05-123-49911

County/Parish: Weld

State: Colorado

Country: USA

Job number: 00165EX-CO

Field: Wattenberg

Rig Id: Ensign #147

Survey Company: Atlas Drilling Services

Day MWD Keith Cornell

Night MWD Brandon Snyder

Log measurements: Gamma, ROP

Depth measured from: KB ft

Maximum temperature: 265

Depth

Start: 1,529' ft  
End: 15,477' ft

Date

03/27/2019  
04/21/2019

Casing Depth Size

Surface: 1,535 ft 9,625"

Intermediate:

Mud Type: OBM

Density: 9.9

Viscosity: 46

Rm: N/A Rmf: N/A Rmc: N/A

Elevations

KB: 28

GL: 5,301'

DF: 5,273'

Run Bit Size

1 13.5"

2 8.50"

3

4

5

6

7

8

9

10

Offsets

Gamma

Survey

74.00 ft

67.00 ft

1610 ft

15477 ft

03/27/2019 14:00

04/19/2019 02:00

03/27/2019 21:00

04/21/2019 15:00

Depths

Start

End

Start

End

Start

End

Start

End

Start

End

Float: 1,535' Shoe: 1,578' KOP: 7,311' LP: 8,387' TD: 15,477'

Atlas Drilling Services uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.

MD

ROP

ft/hr

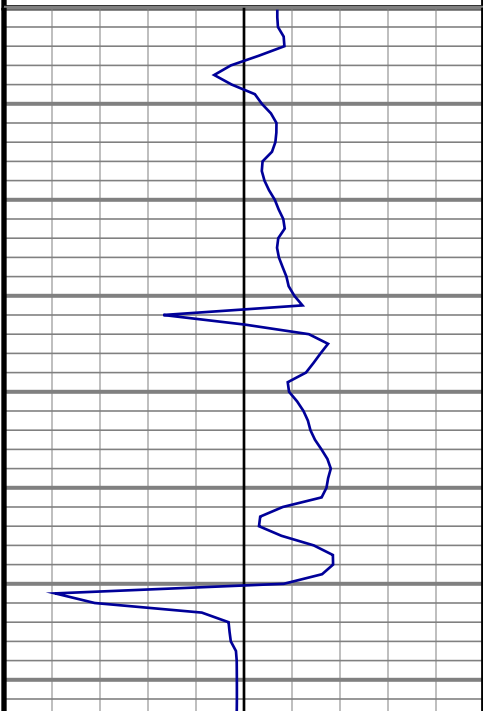
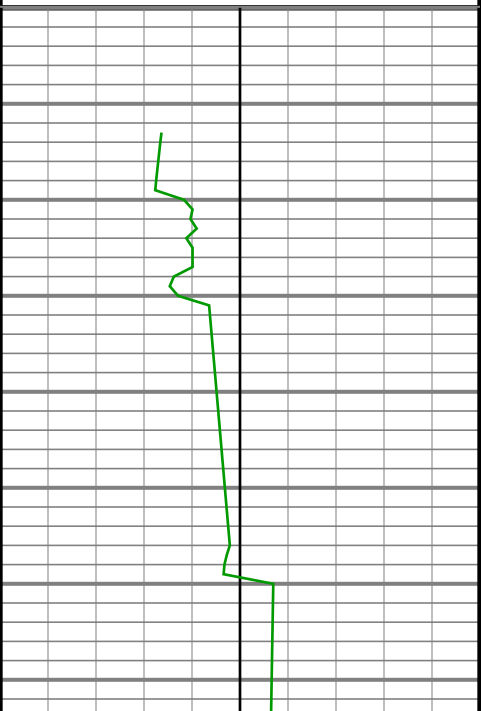
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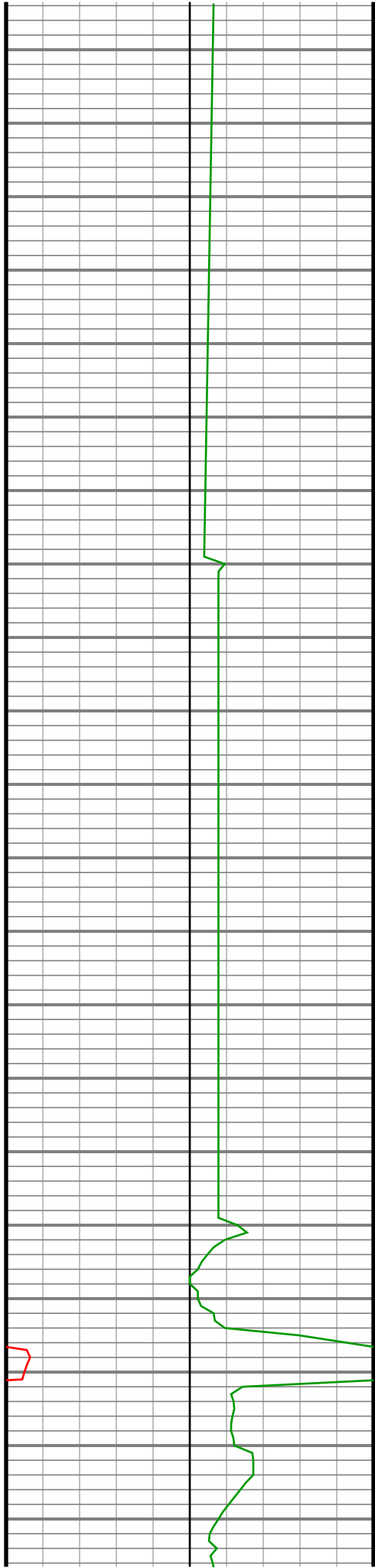
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Gamma

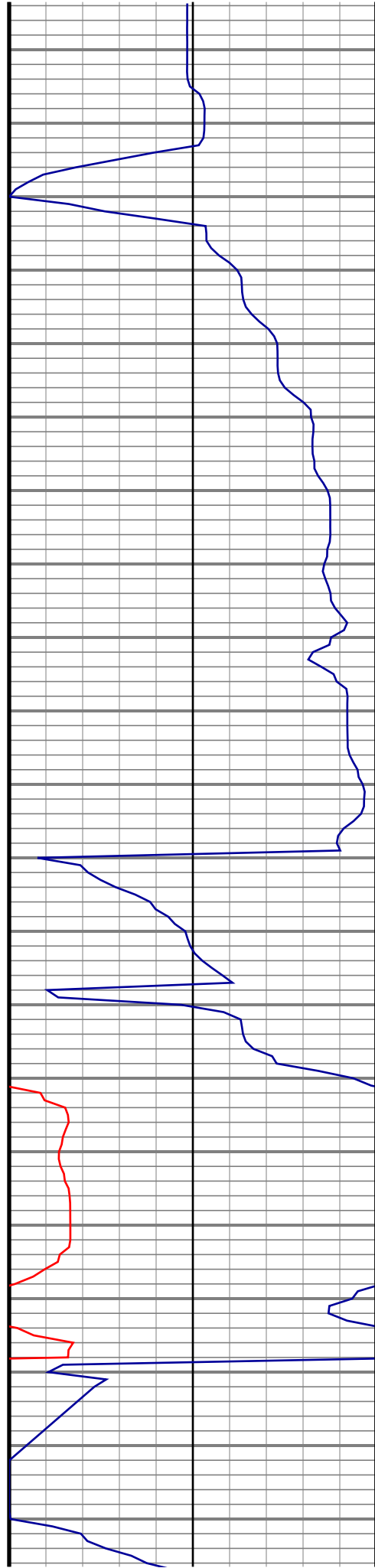
API

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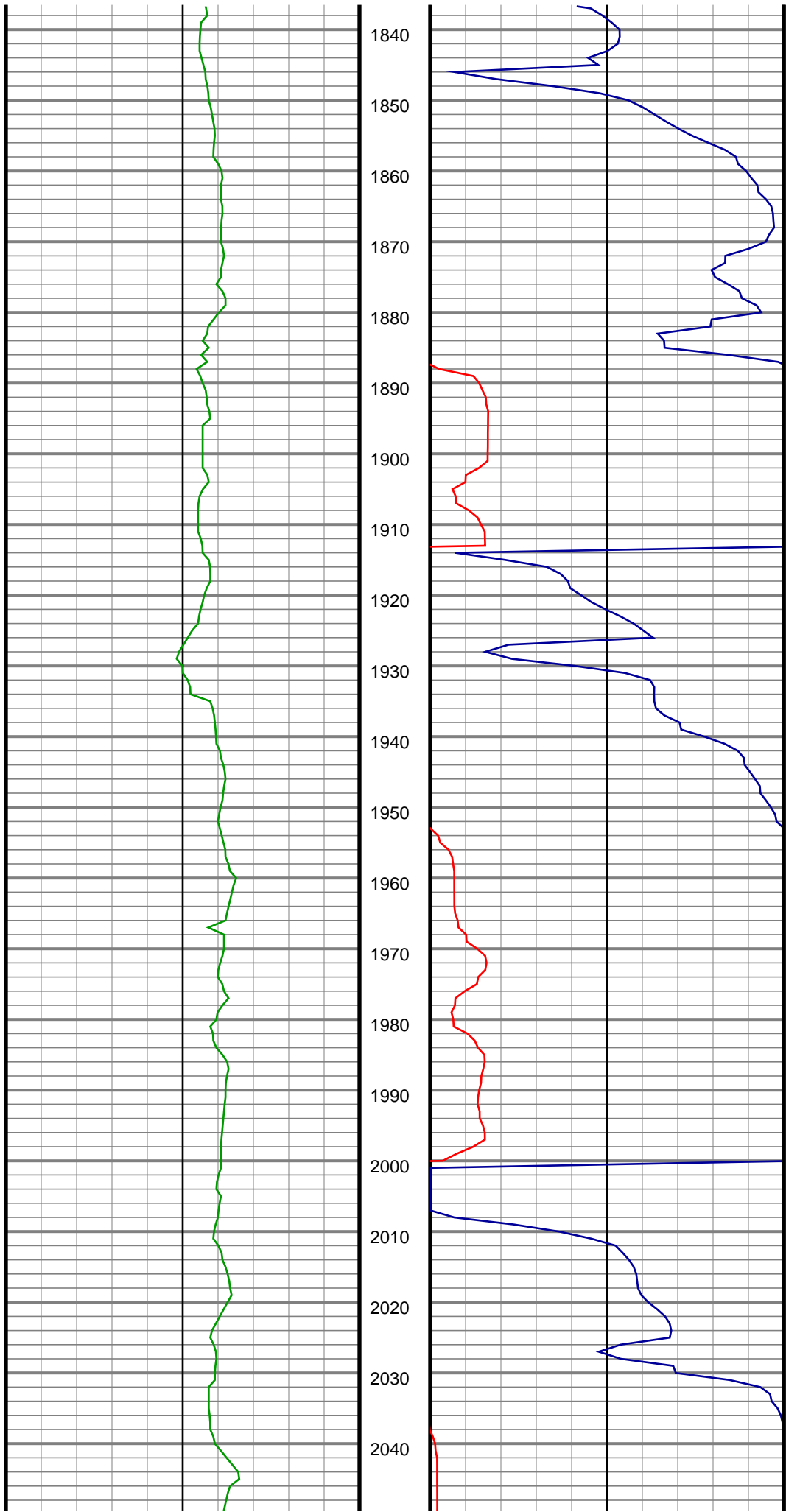


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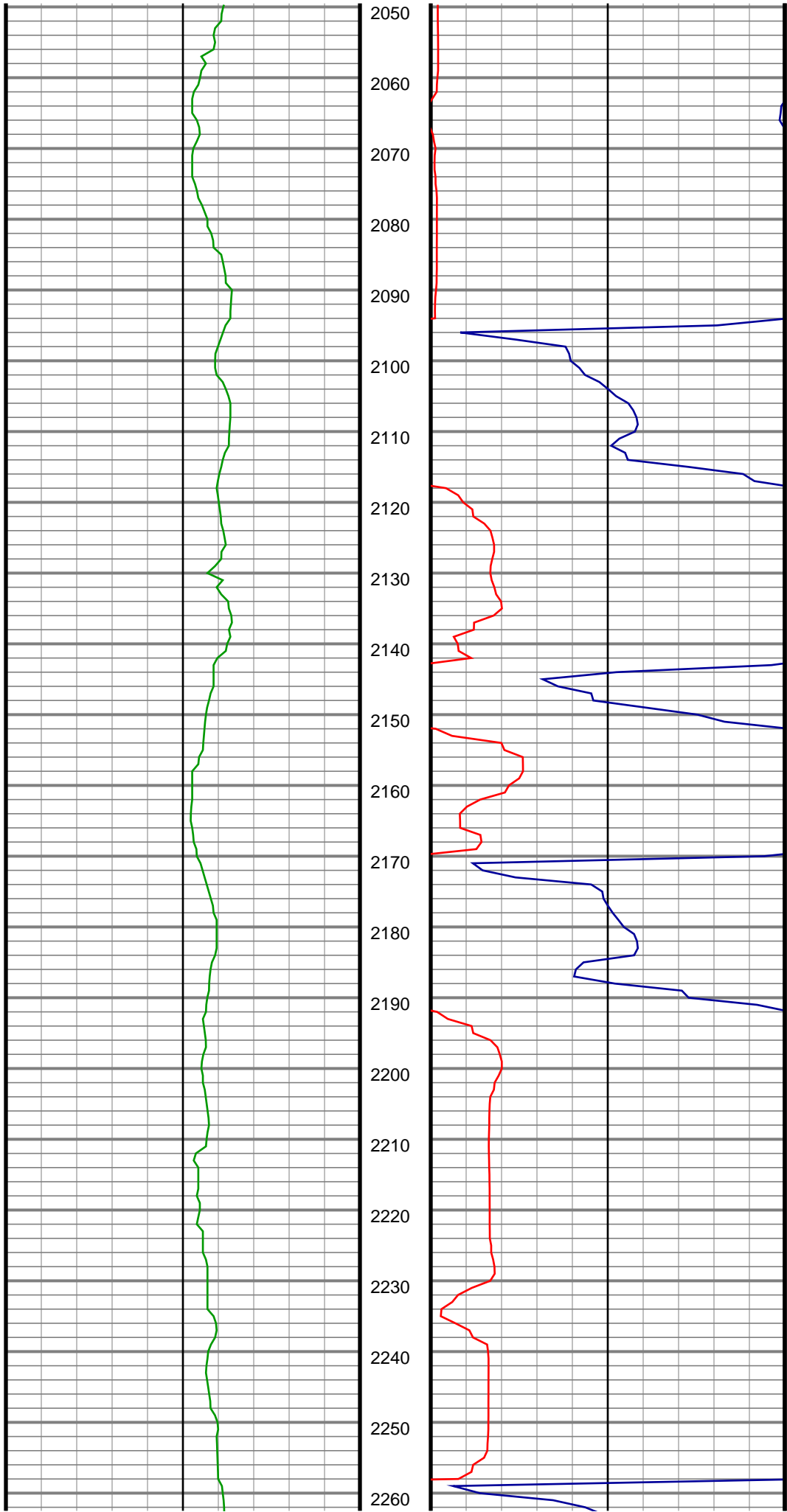
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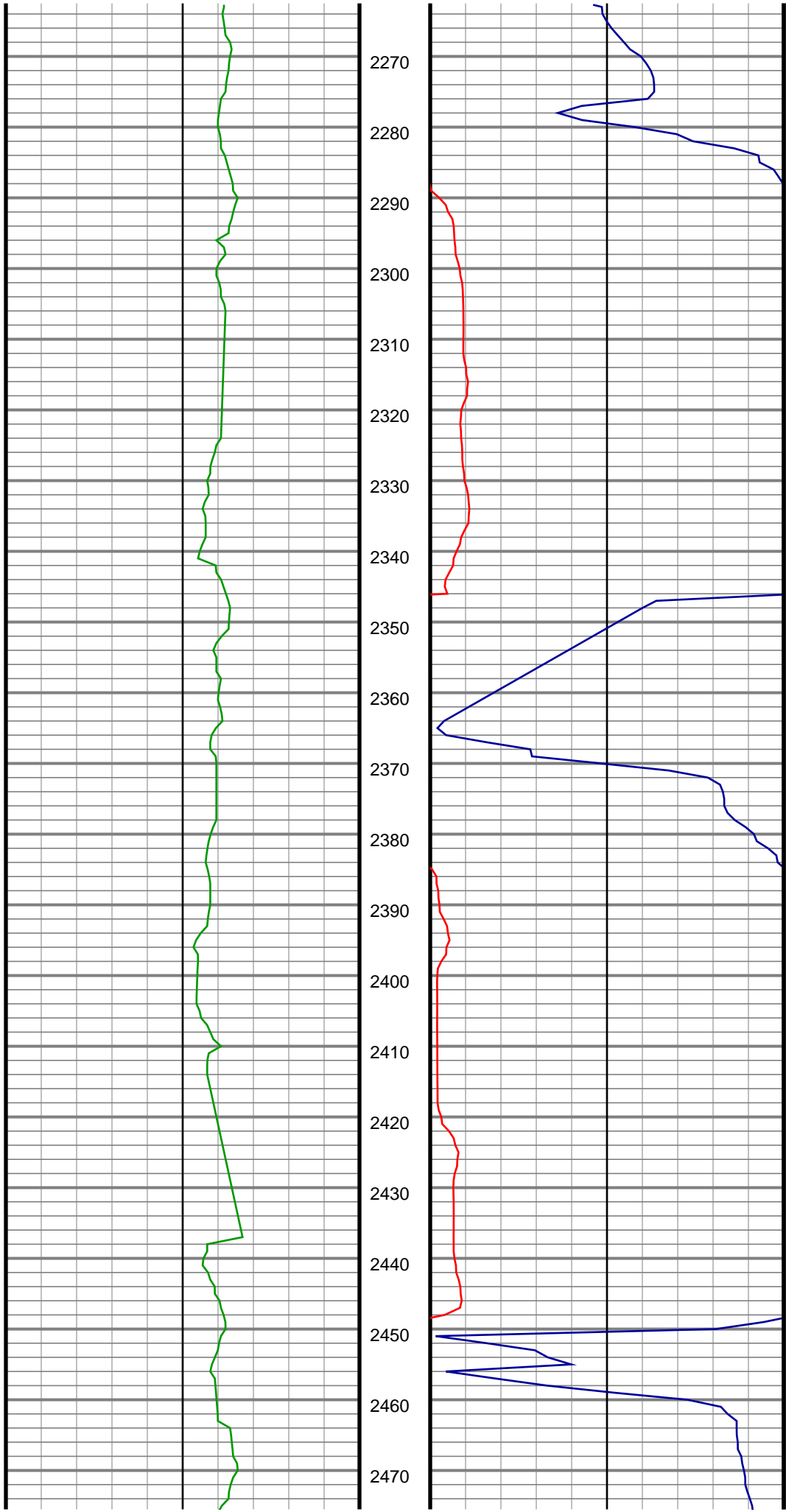


#20 MD(1851.00) Inc(5.30) Azm(172.58) TVD(1850.53)  
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#21 MD(1940.00) Inc(7.47) Azm(179.06) TVD(1938.98)  
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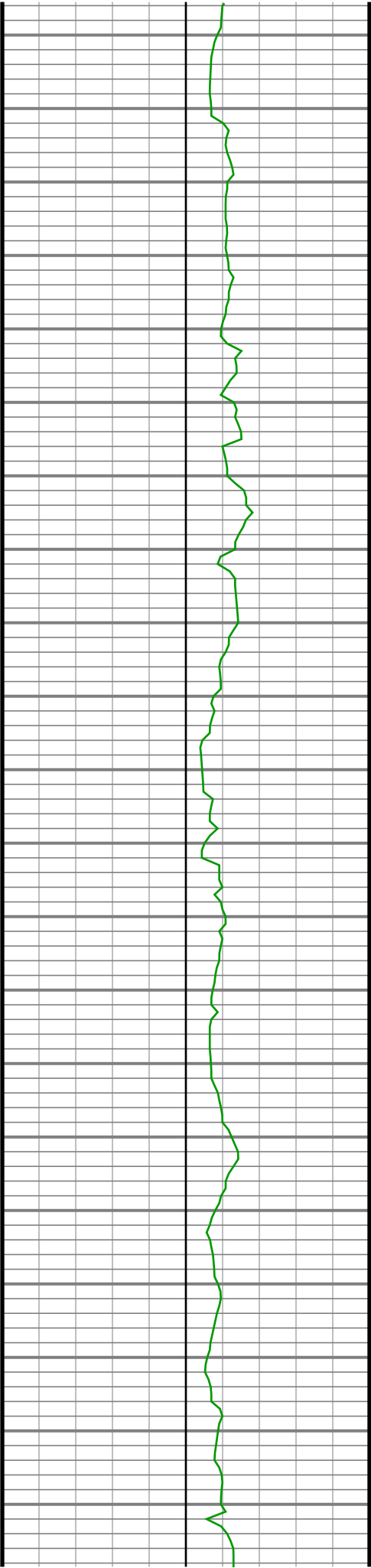
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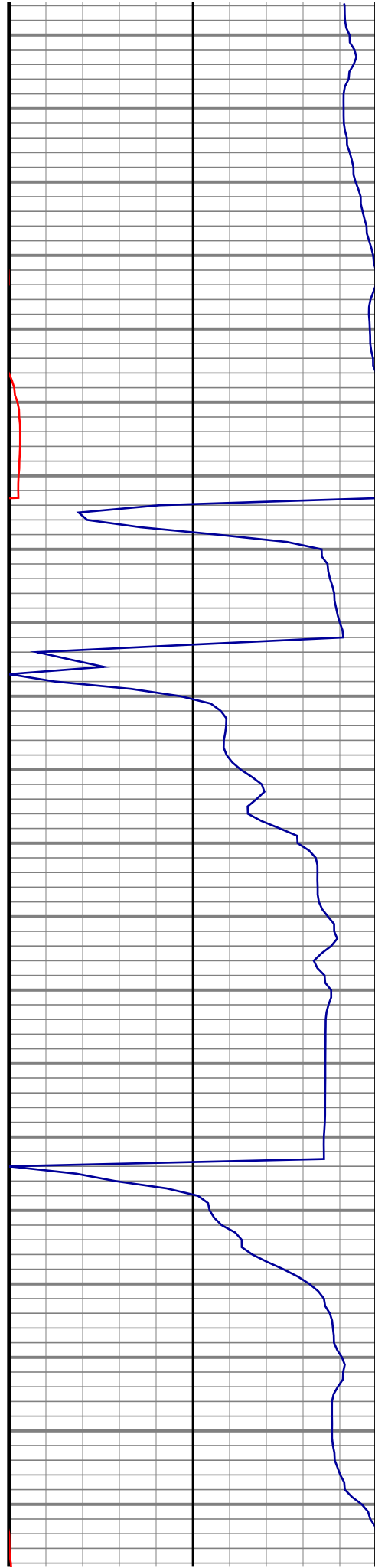


#25 MD(2297.00) Inc(18.52) Azm(172.62) TVD(2286.30)  
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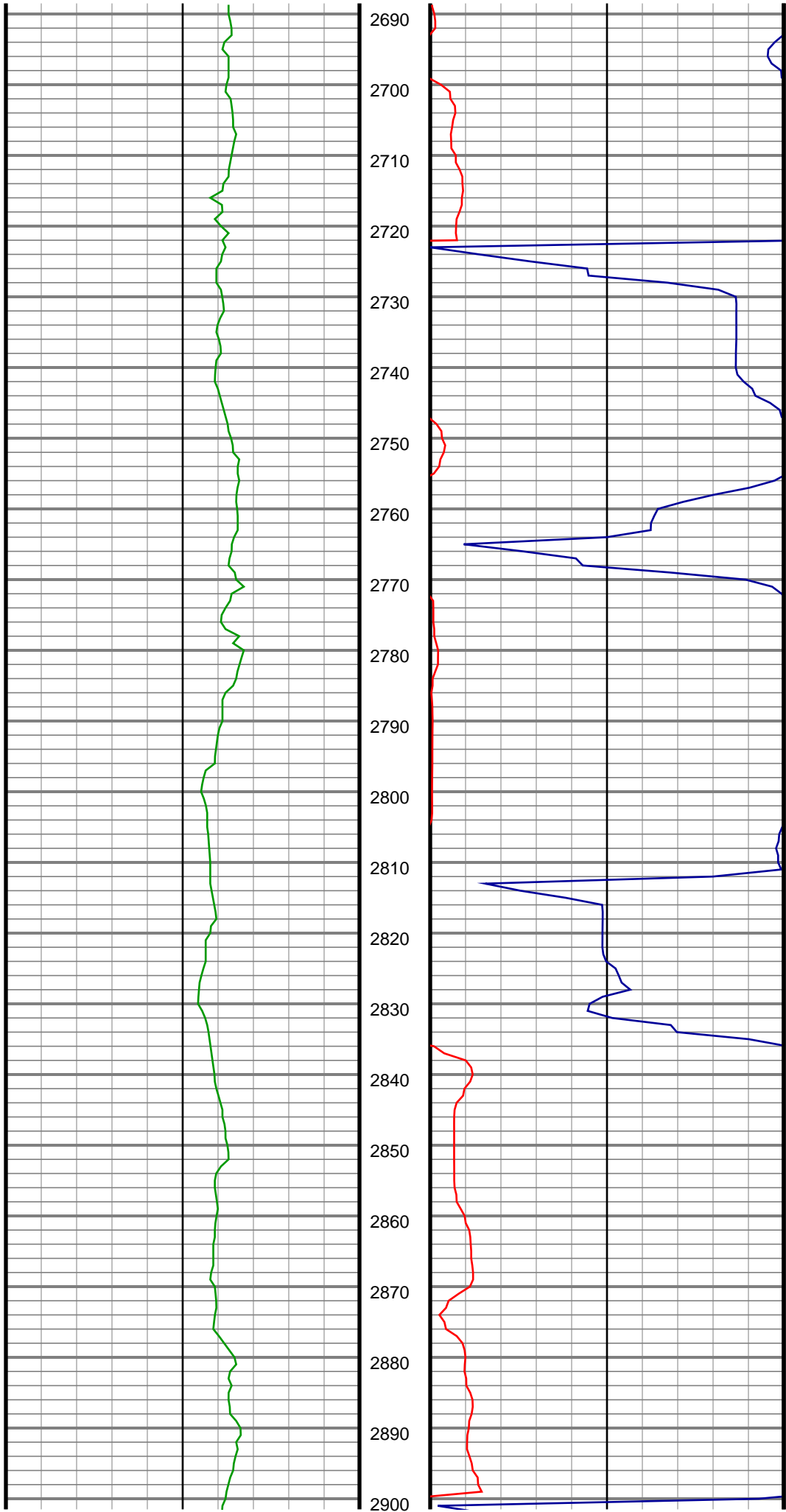
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#27 MD(2476.00) Inc(17.81) Azm(168.26) TVD(2456.23)  
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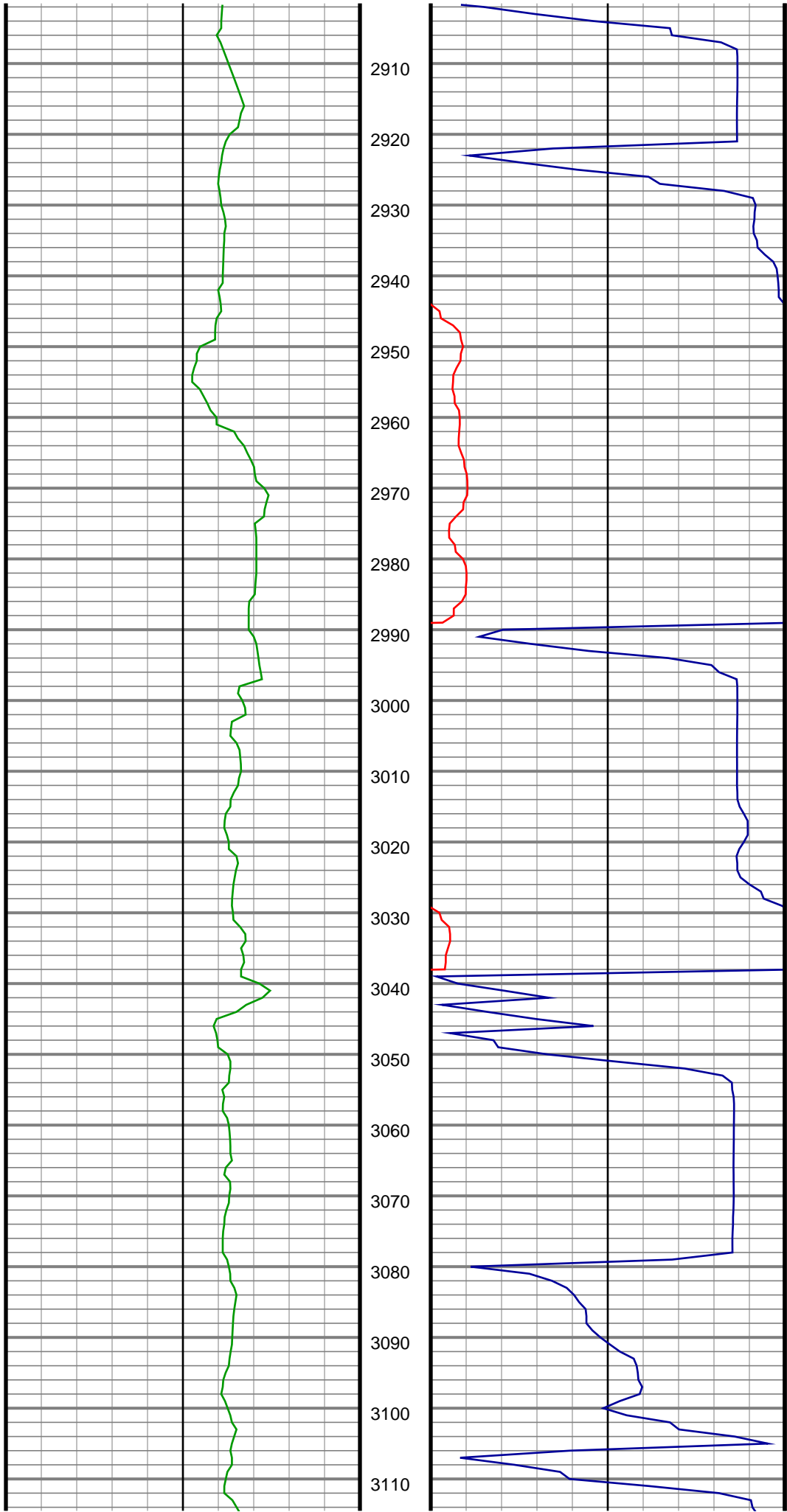
#28 MD(2566.00) Inc(17.19) Azm(167.12) TVD(2542.06)  
VS(-1.19) N/-S(-193.72) E/-W(15.96)

#29 MD(2656.00) Inc(16.35) Azm(166.15) TVD(2628.23)  
VS(-5.25) N/-S(-218.98) E/-W(21.96)



#30 MD(2745.00) Inc(15.69) Azm(163.90) TVD(2713.78)  
VS(-9.76) N/-S(-242.71) E/-W(28.29)

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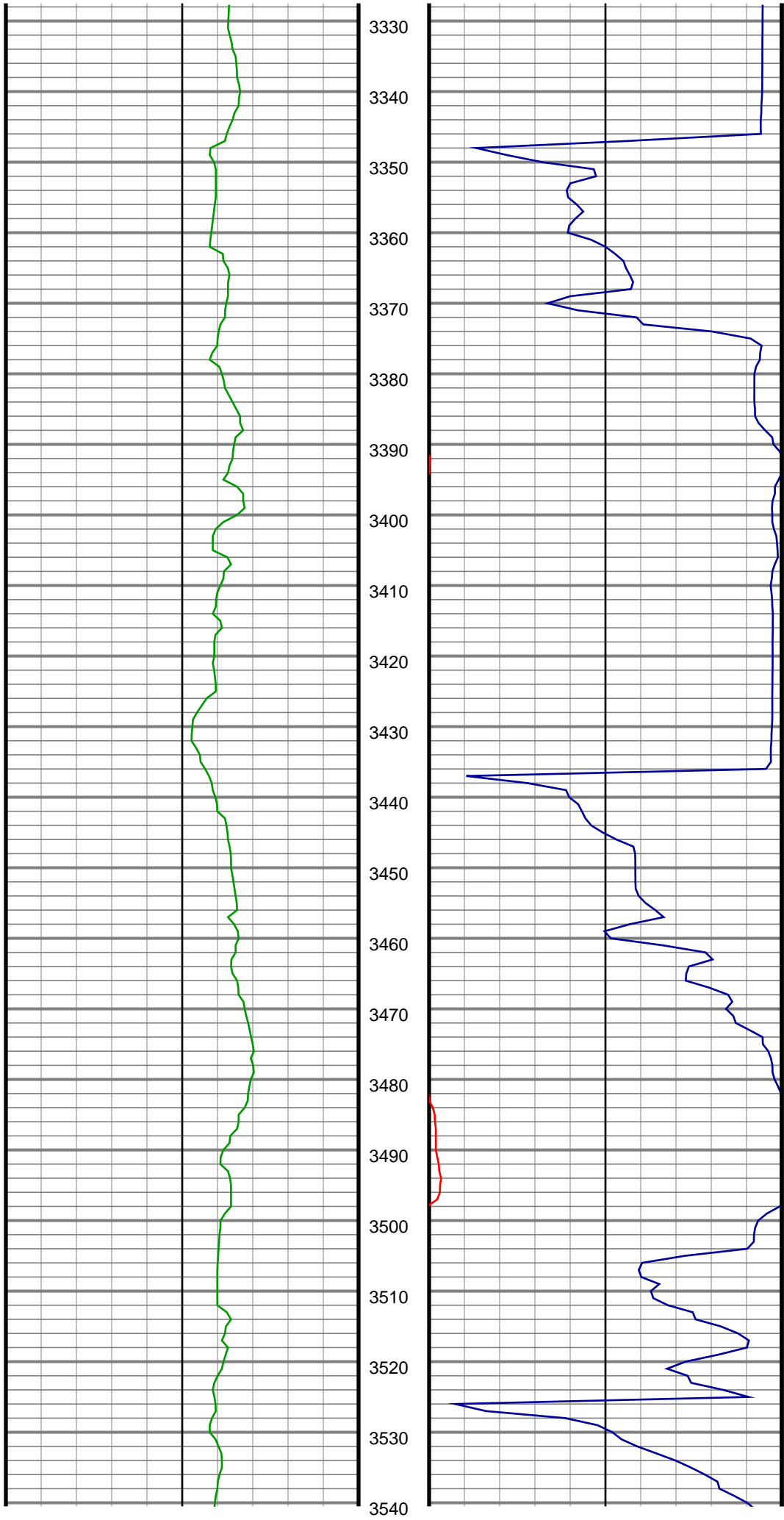
#32 MD(2924.00) Inc(16.17) Azm(168.17) TVD(2885.54)  
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#33 MD(3014.00) Inc(15.33) Azm(166.15) TVD(2972.16)  
VS(-20.23) N/-S(-315.77) E/-W(44.36)

#34 MD(3103.00) Inc(16.44) Azm(170.99) TVD(3057.76)  
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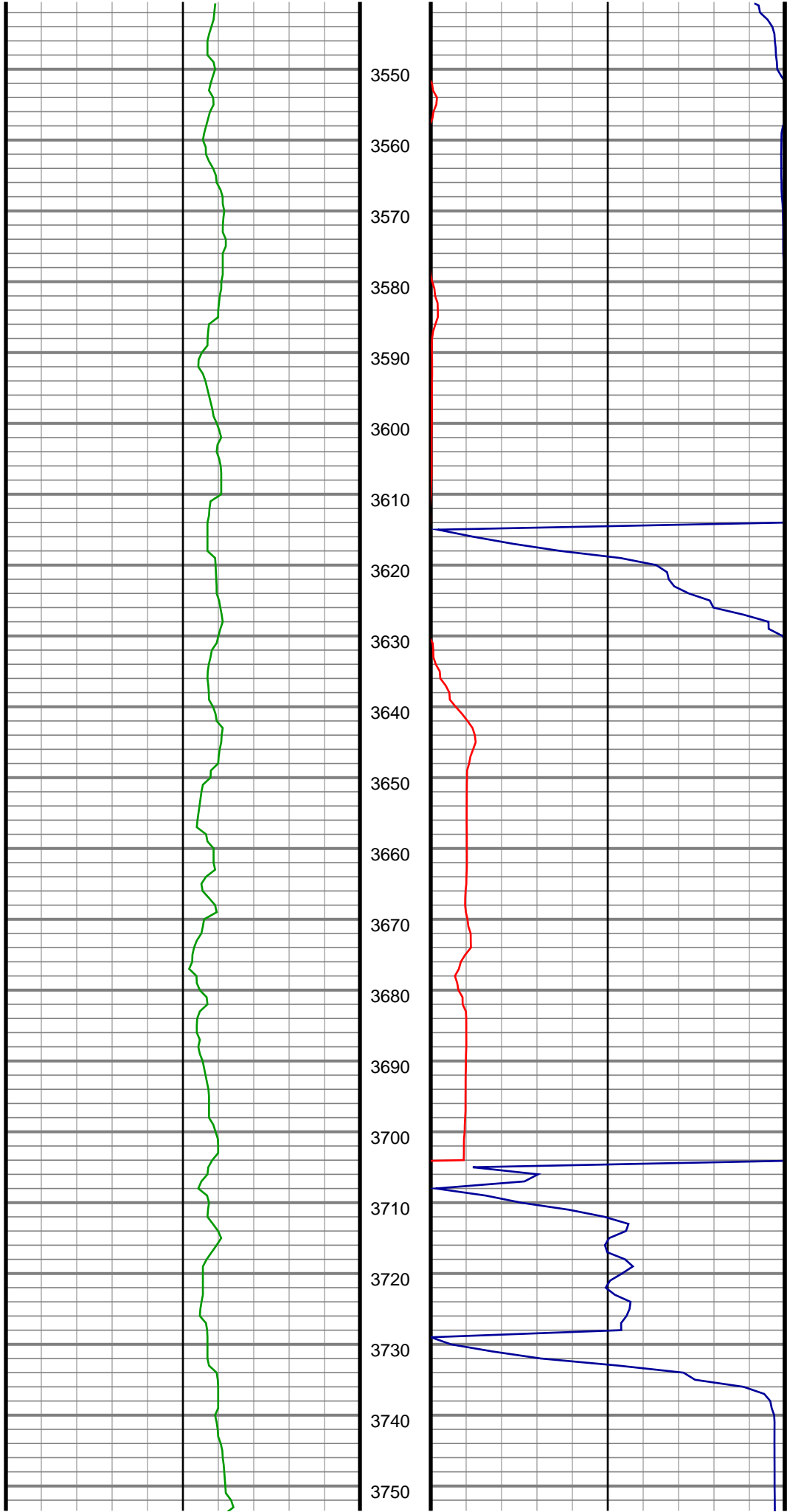






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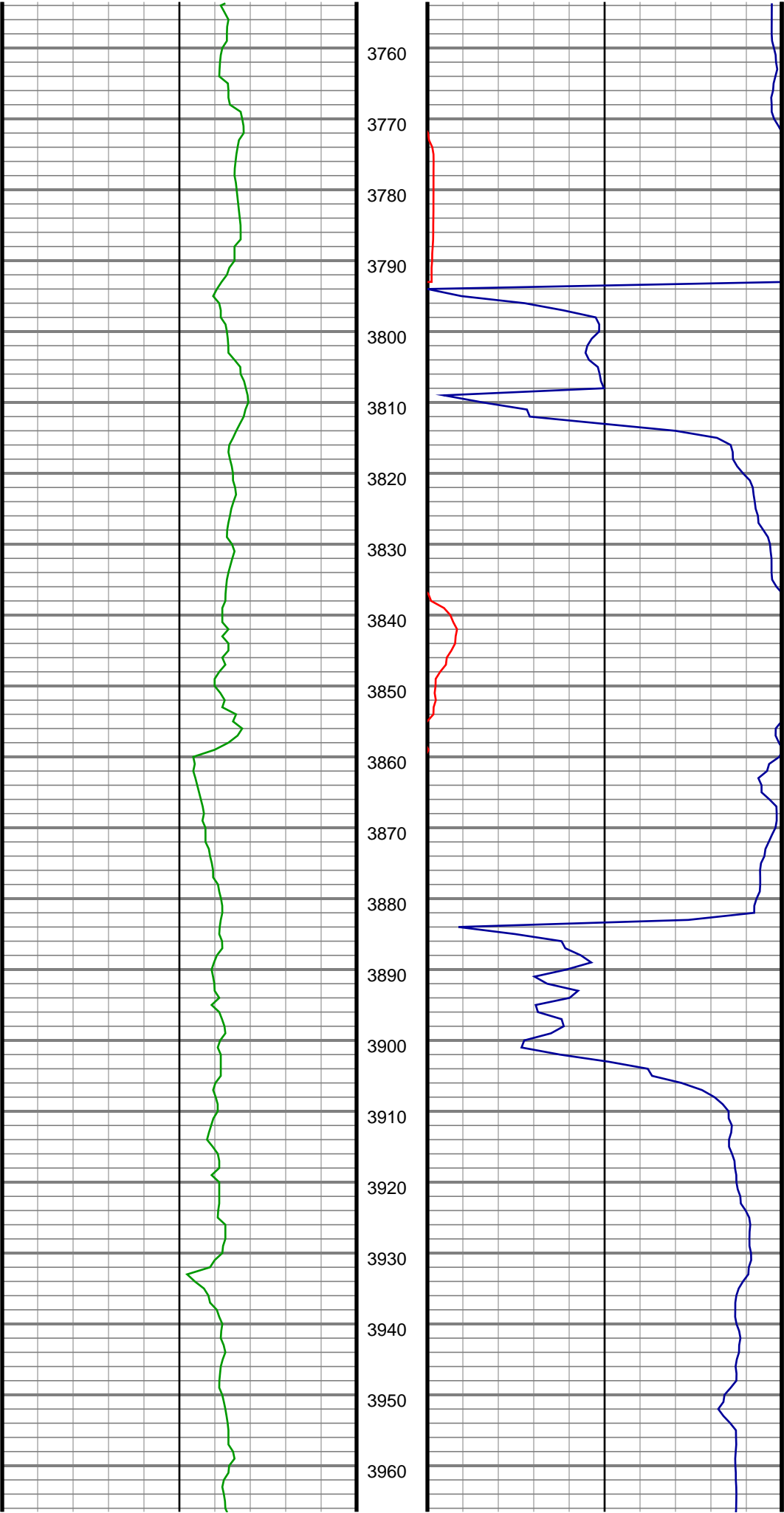
#38 MD(3462.00) Inc(17.54) Azm(176.06) TVD(3403.13)  
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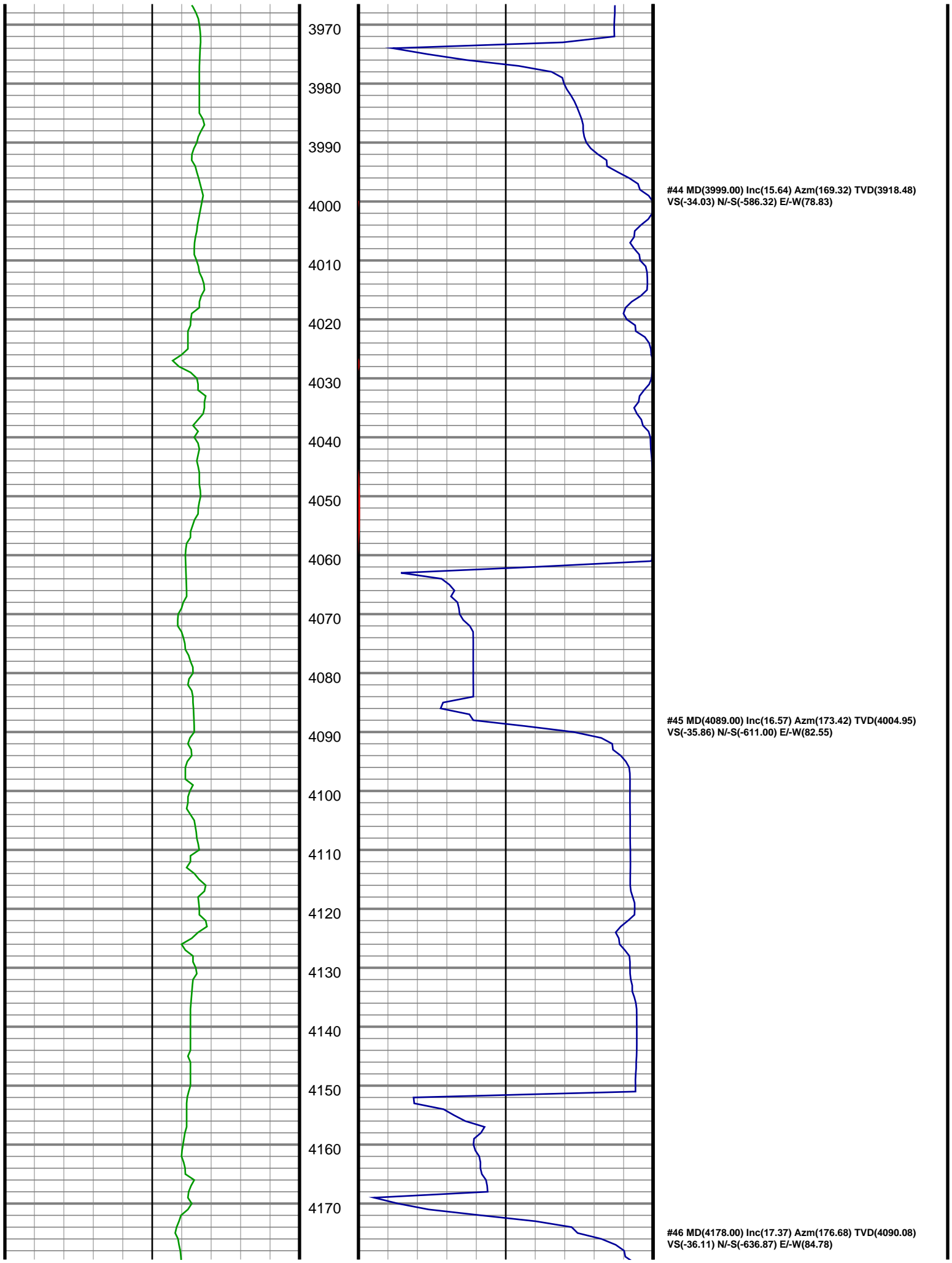
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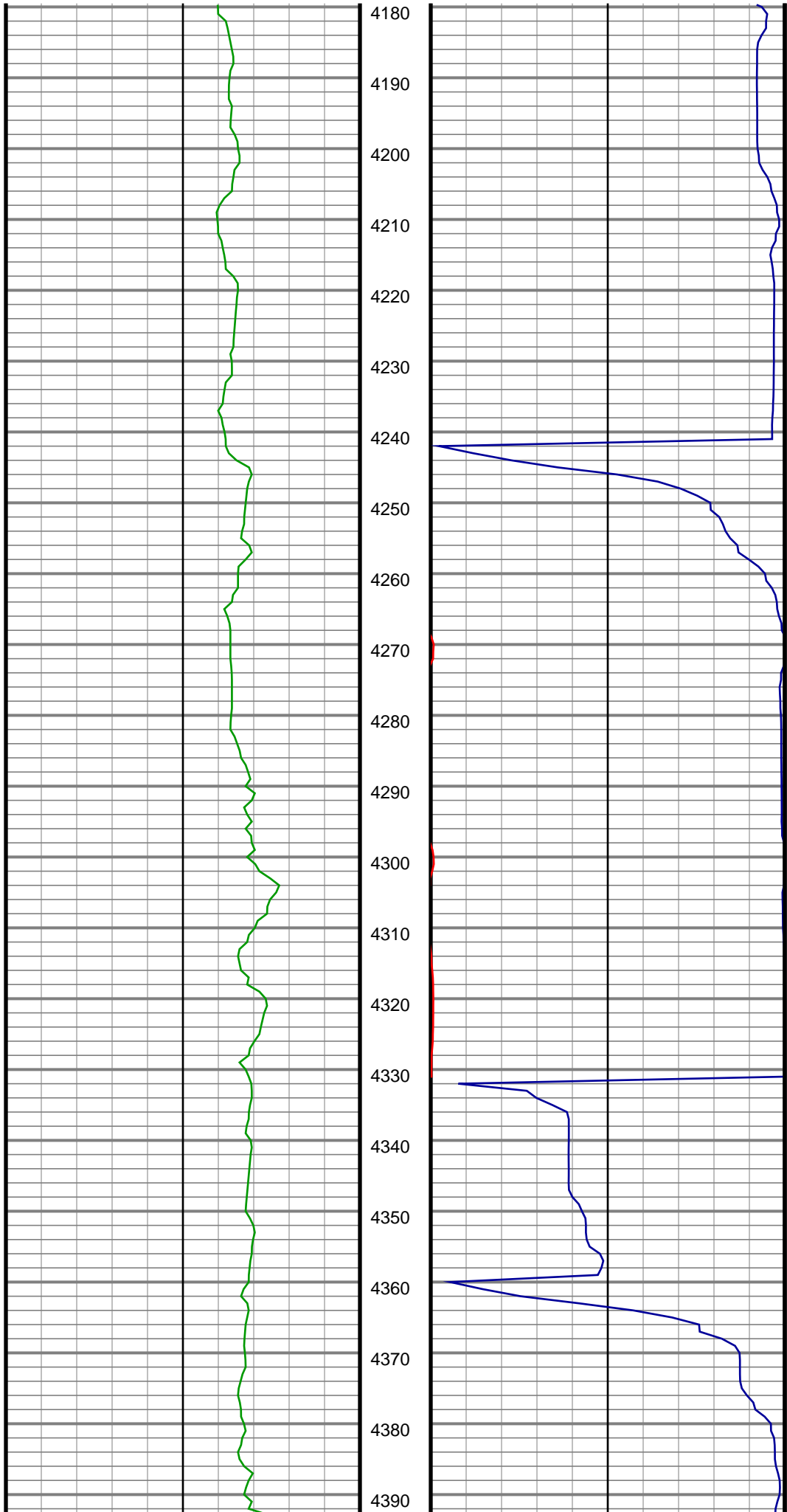
#41 MD(3730.00) Inc(16.13) Azm(171.74) TVD(3660.73)  
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#42 MD(3820.00) Inc(16.79) Azm(172.36) TVD(3747.04)  
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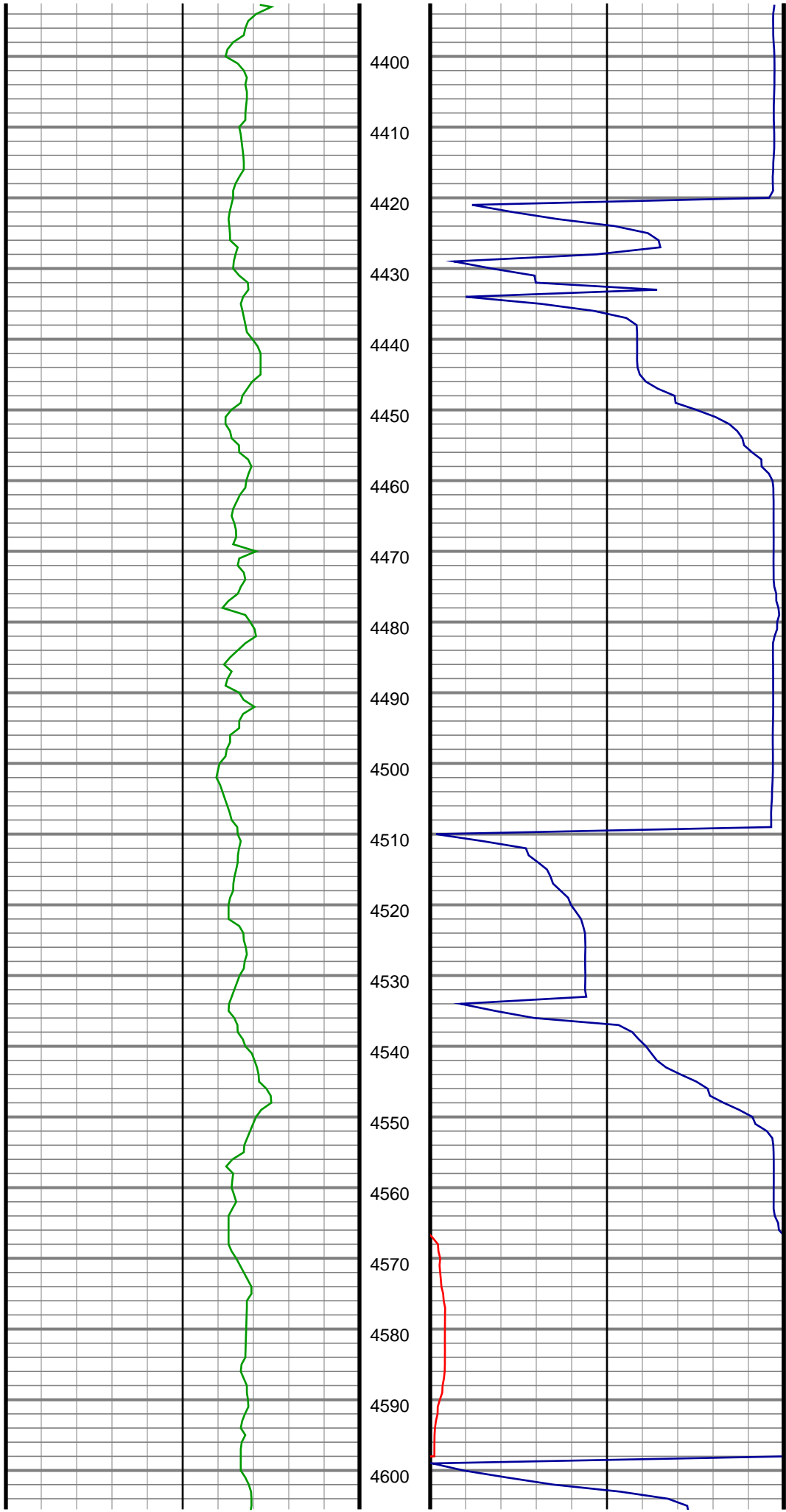
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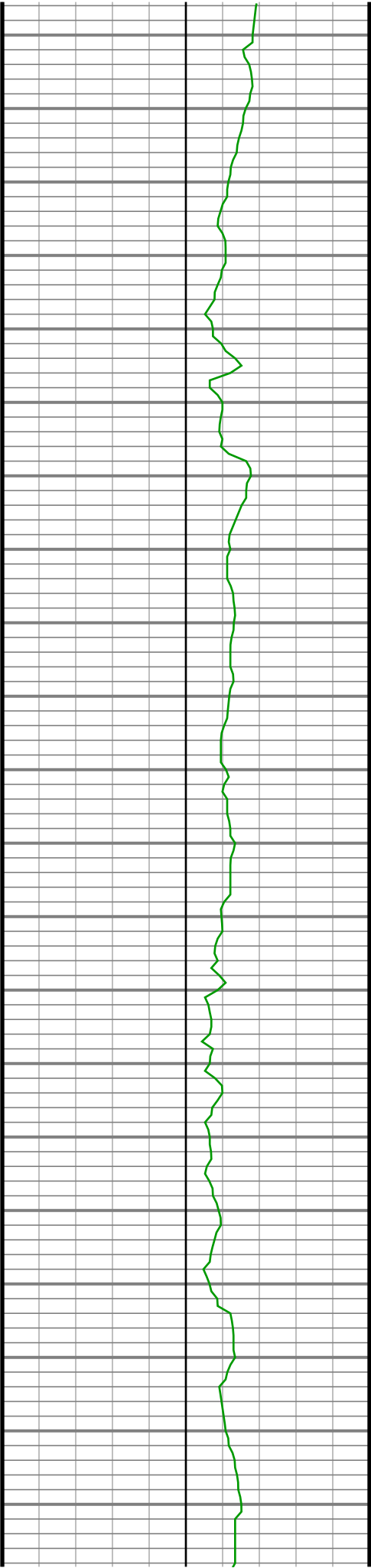
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#48 MD(4358.00) Inc(17.06) Azm(175.36) TVD(4262.97)  
VS(-36.57) N/-S(-686.72) E/-W(89.04)



#49 MD(4448.00) Inc(15.86) Azm(175.53) TVD(4349.28)  
VS(-36.66) N/-S(-712.14) E/-W(91.06)

#50 MD(4538.00) Inc(17.50) Azm(173.46) TVD(4435.49)  
VS(-37.20) N/-S(-737.84) E/-W(93.56)



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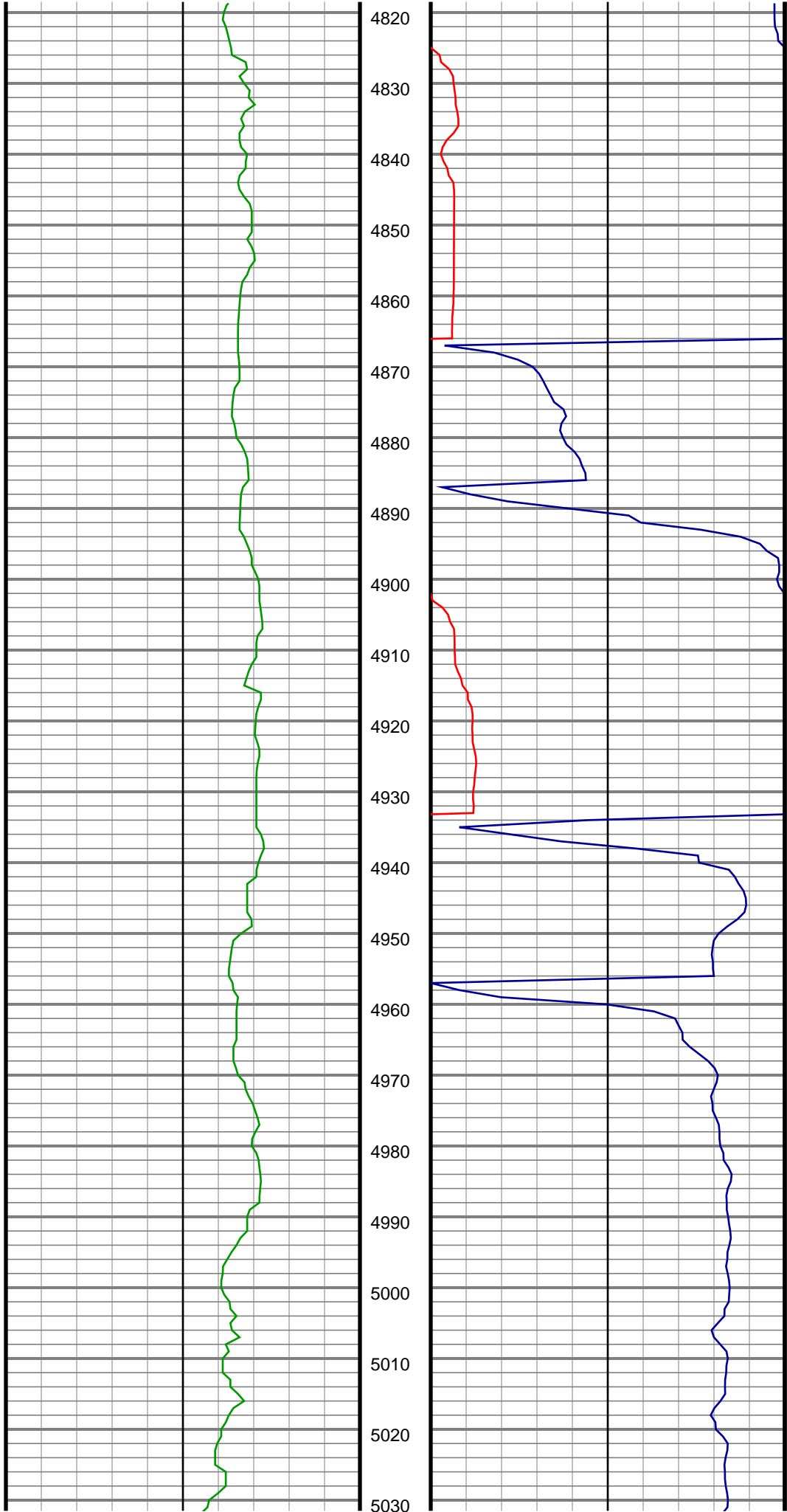


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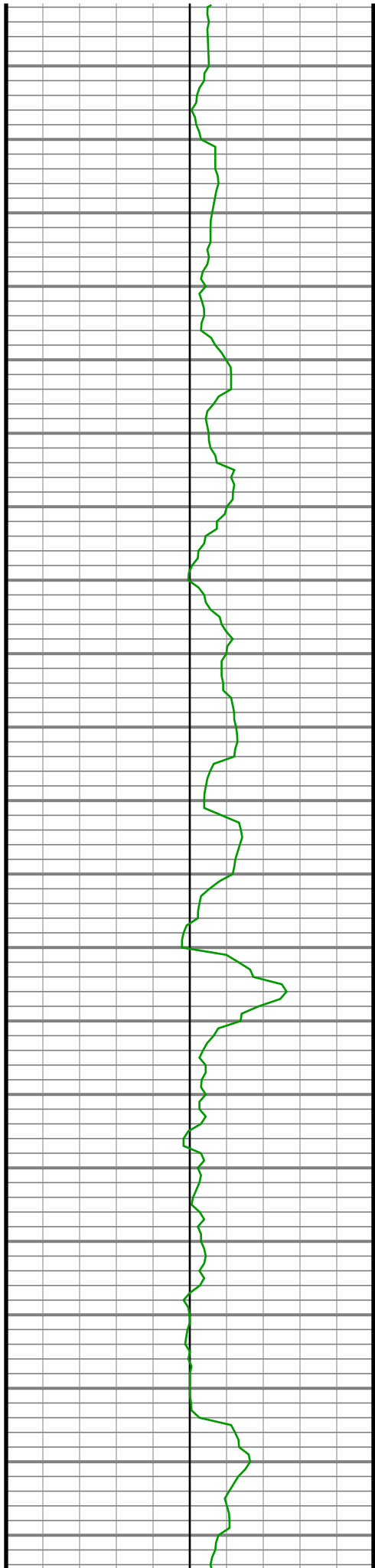
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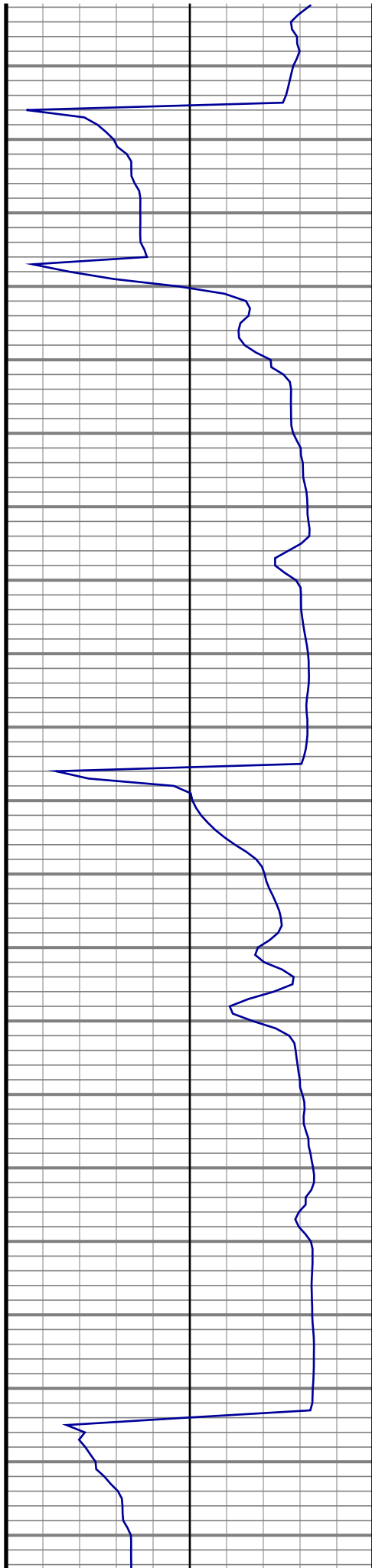


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#55 MD(4984.00) Inc(16.00) Azm(178.26) TVD(4862.41)  
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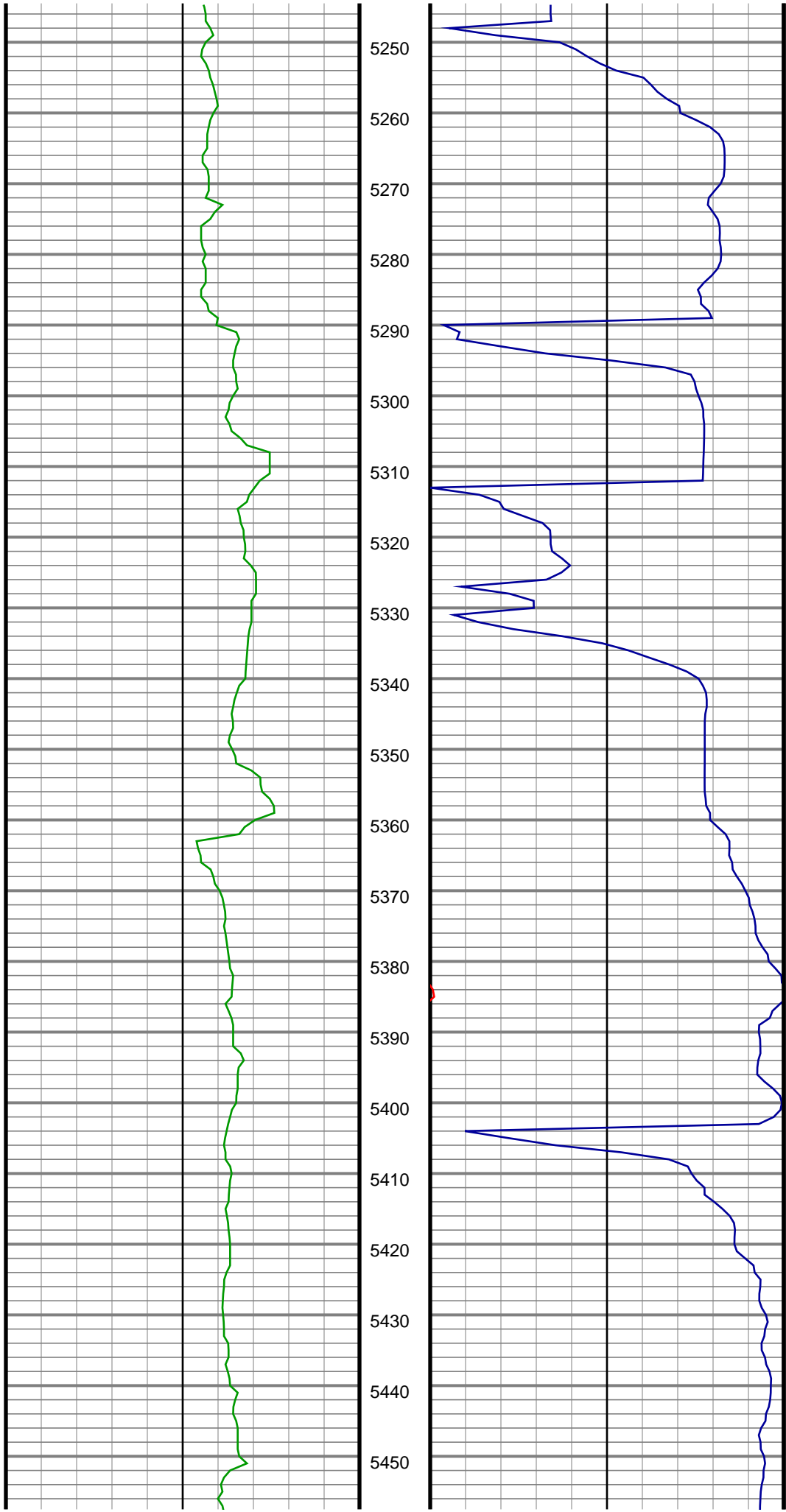


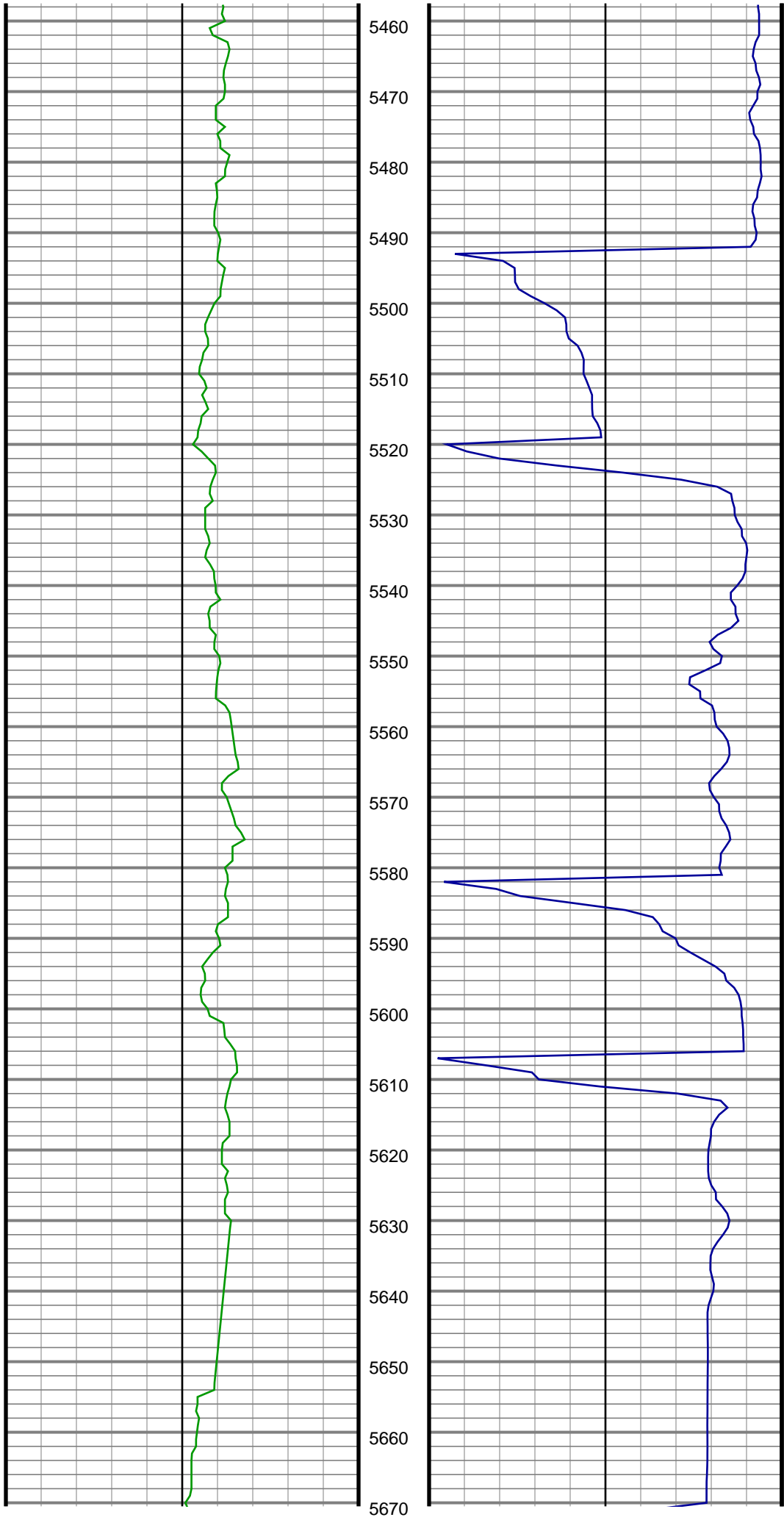
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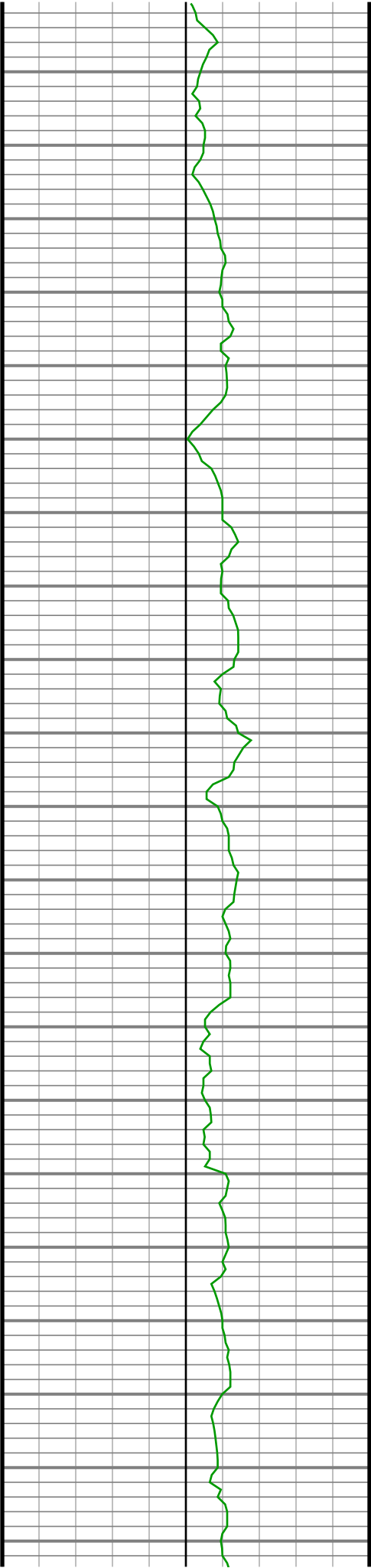
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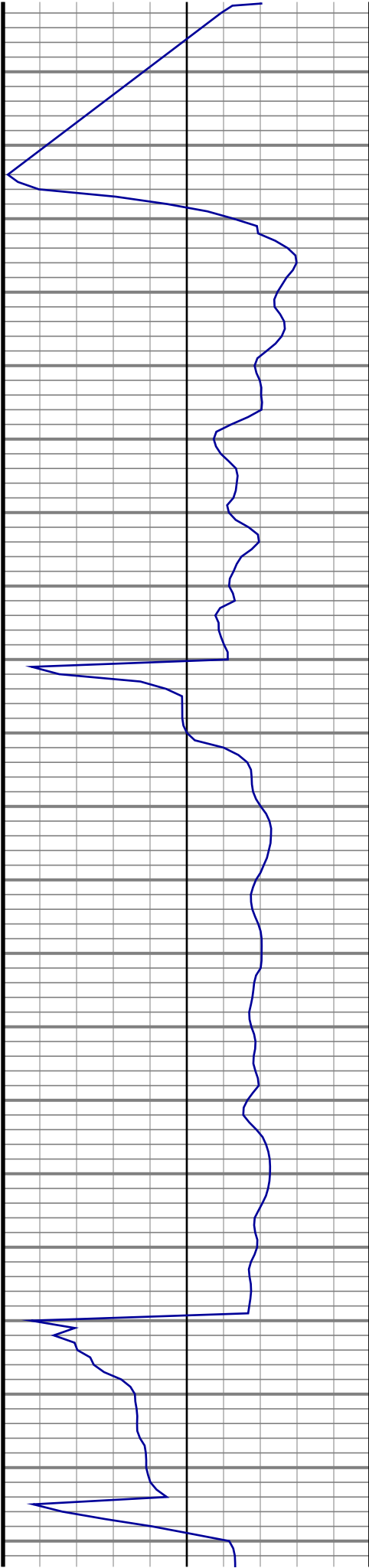


#61 MD(5521.00) Inc(18.29) Azm(170.16) TVD(5376.16)  
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#62 MD(5611.00) Inc(16.35) Azm(169.19) TVD(5462.07)  
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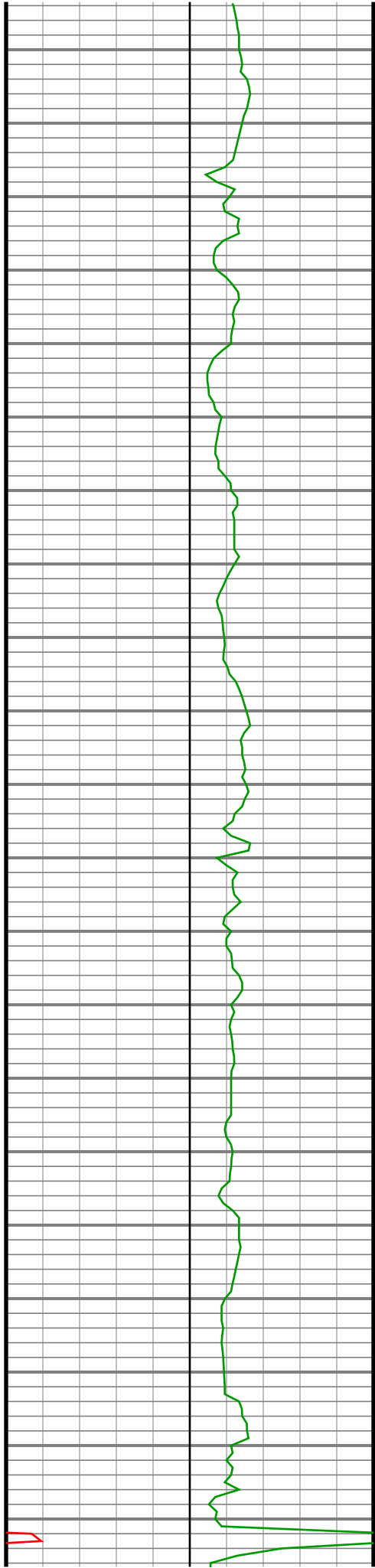
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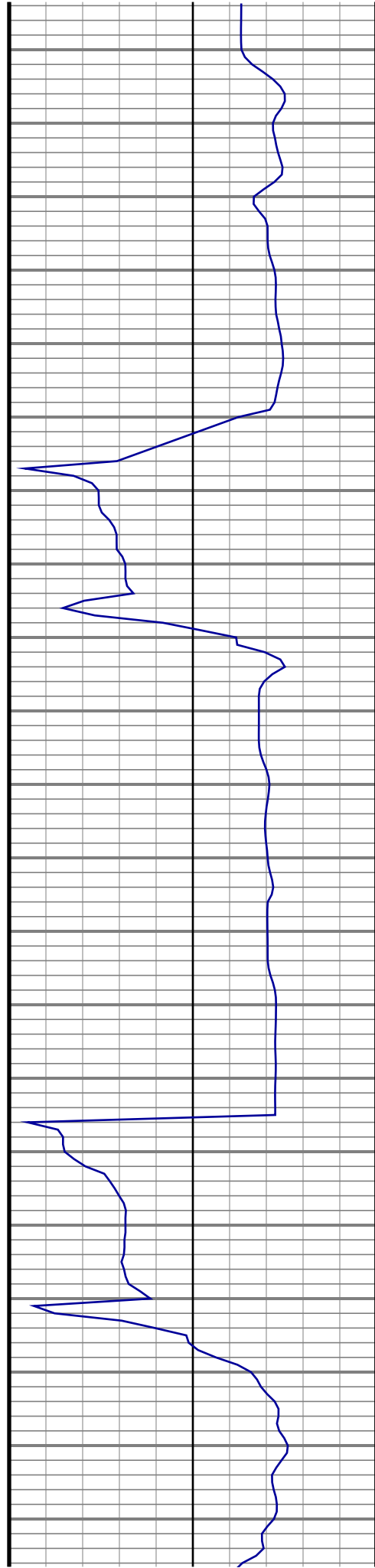
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#64 MD(5790.00) Inc(16.00) Azm(168.75) TVD(5633.44)  
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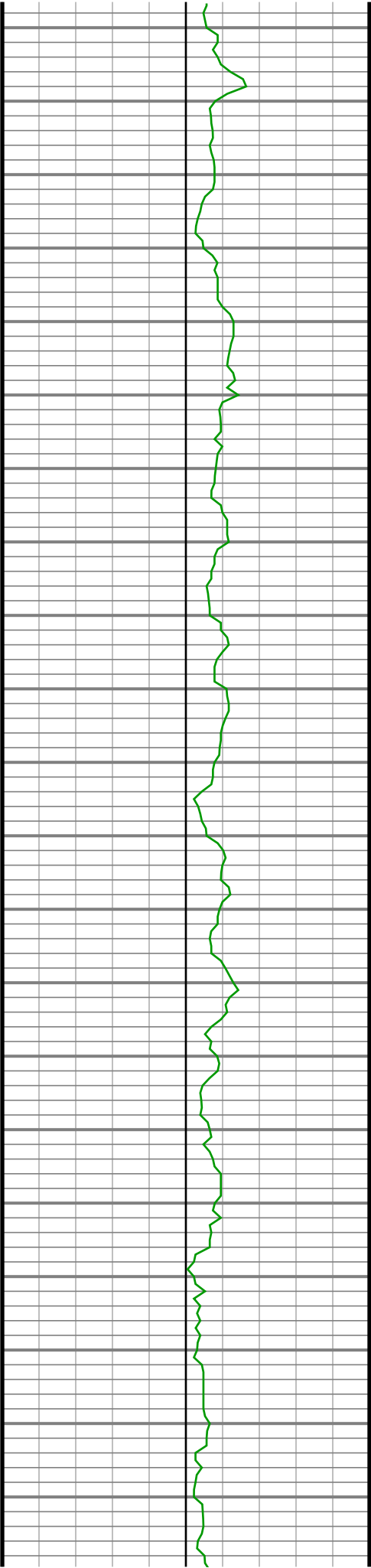


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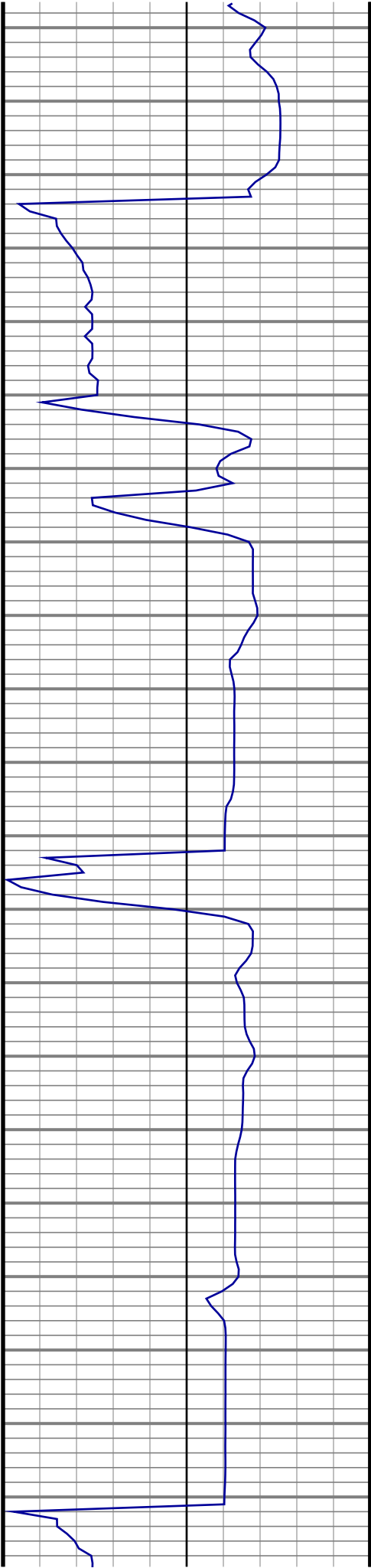


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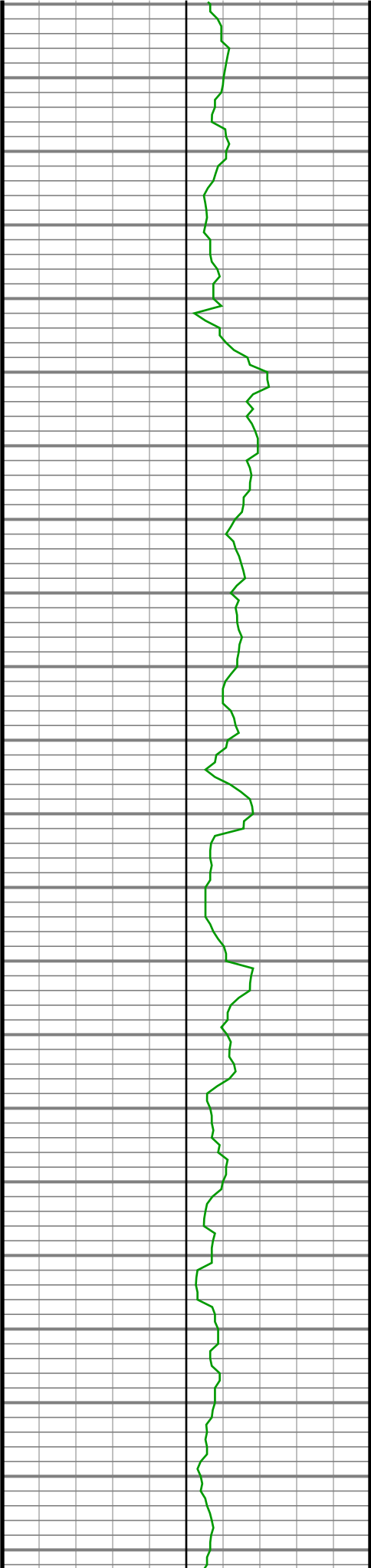


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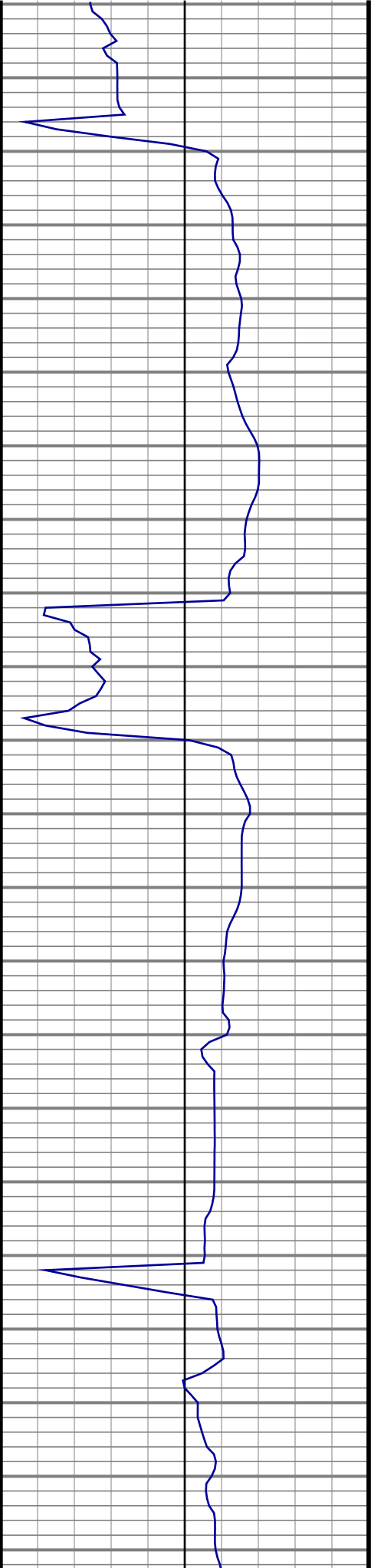


#68 MD(6147.00) Inc(18.38) Azm(170.46) TVD(5974.92)  
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#69 MD(6236.00) Inc(17.32) Azm(169.23) TVD(6059.64)  
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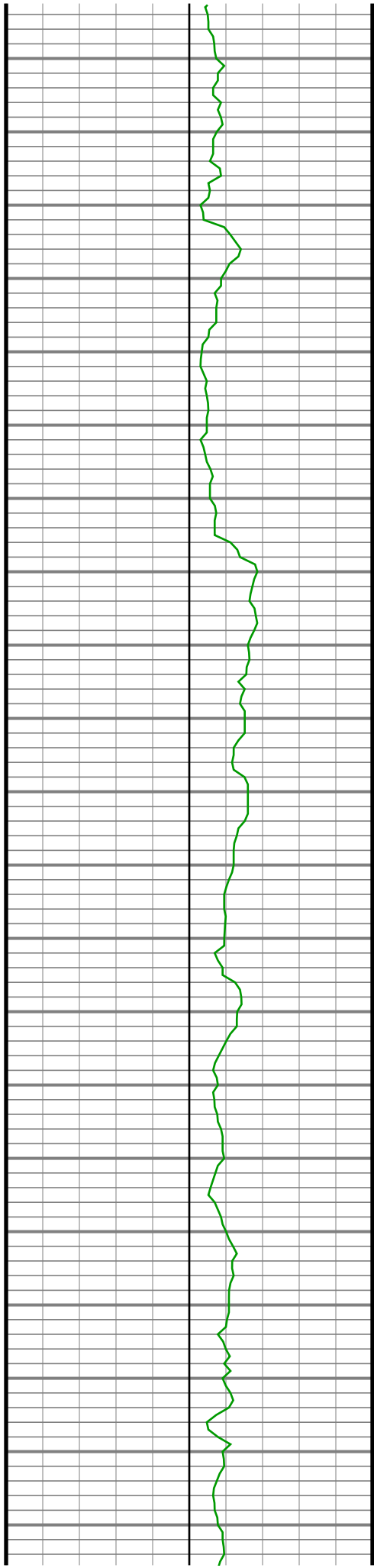


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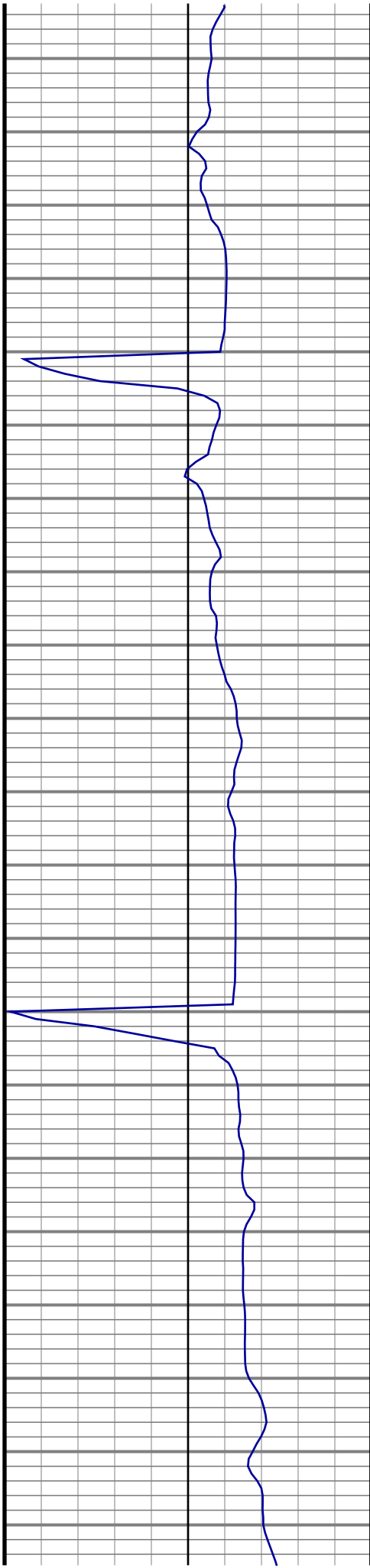
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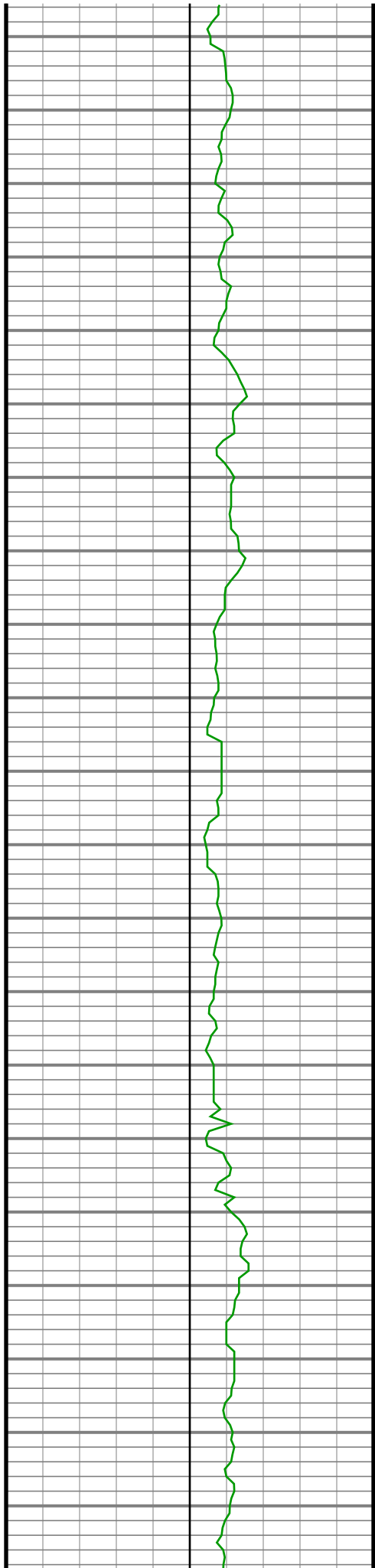


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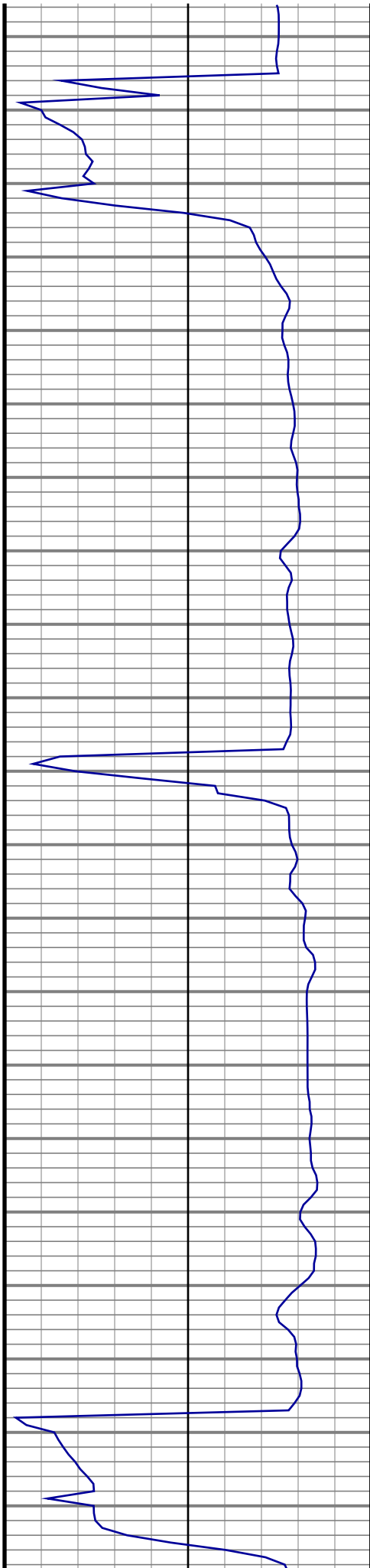


#73 MD(6594.00) Inc(14.76) Azm(169.10) TVD(6400.75)  
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#74 MD(6684.00) Inc(13.30) Azm(168.92) TVD(6488.07)  
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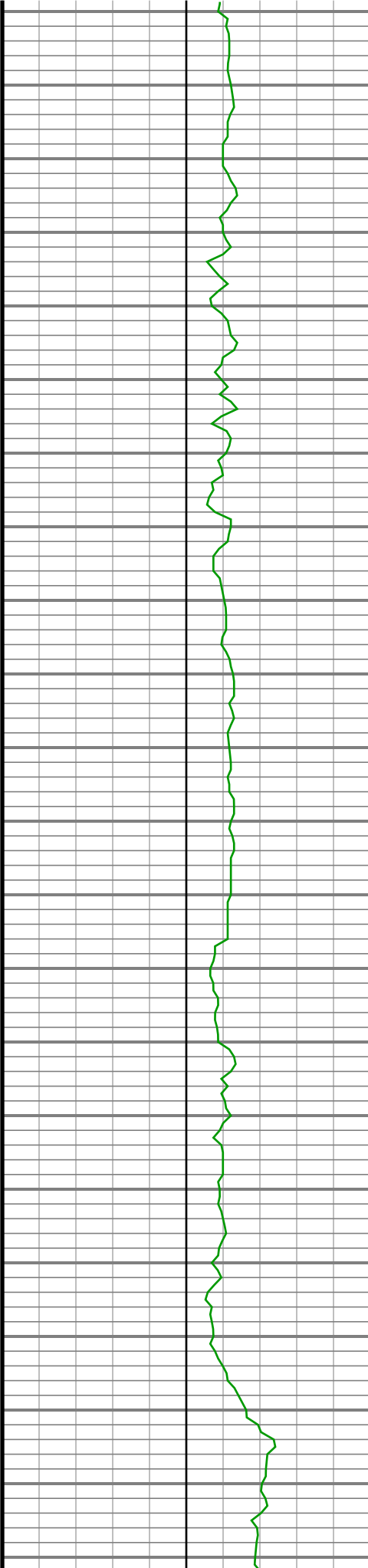


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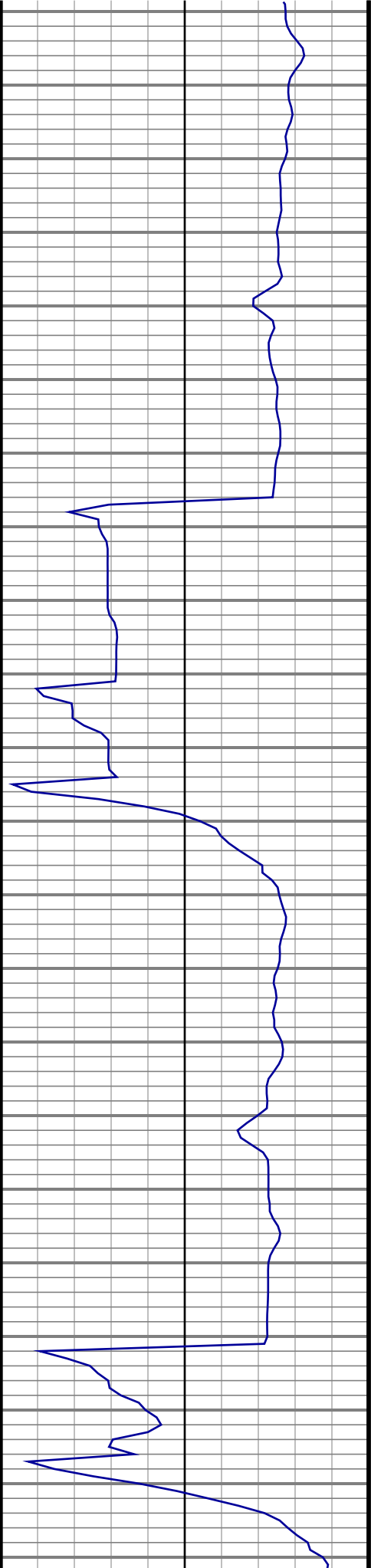


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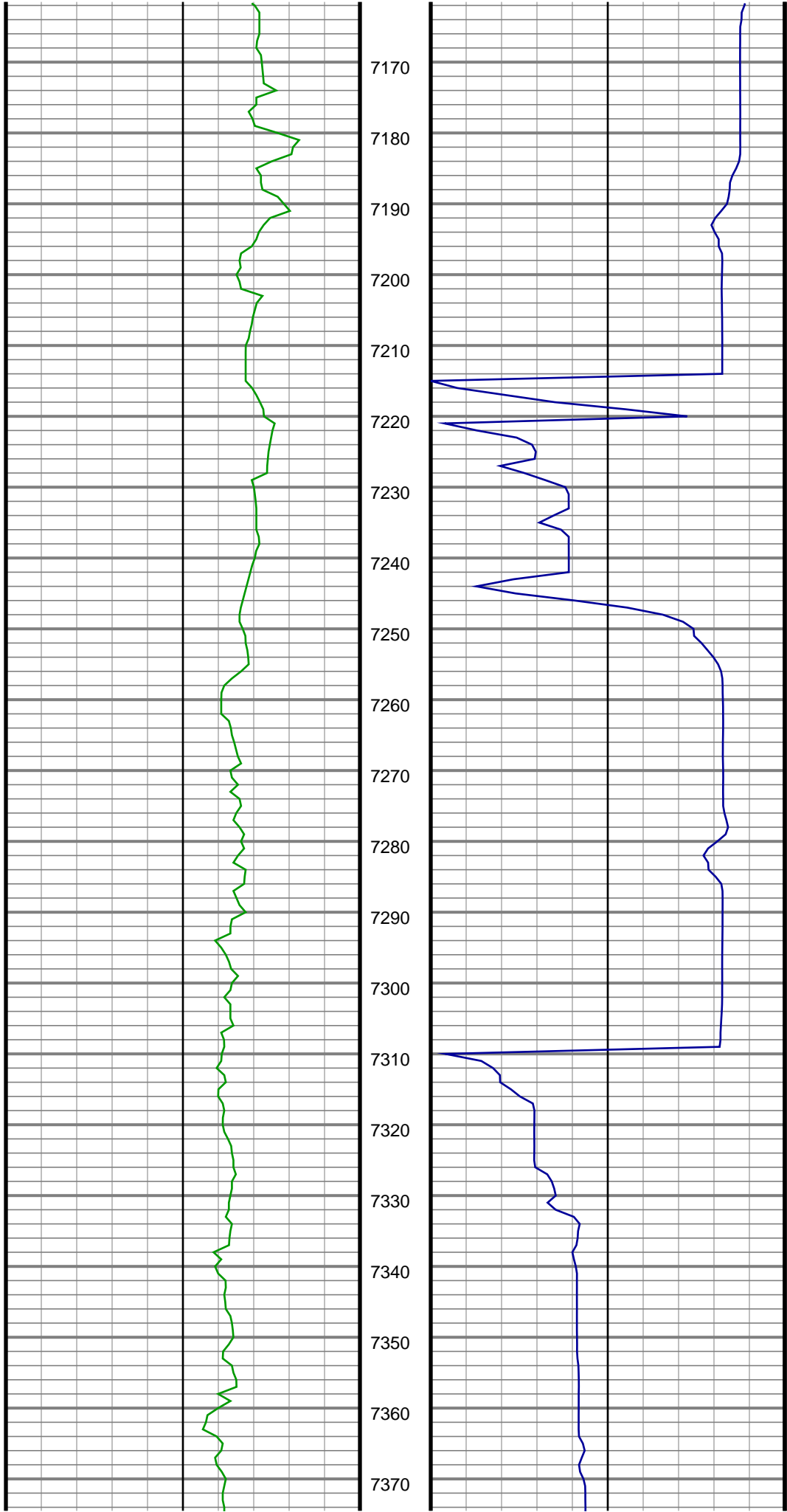
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#77 MD(6952.00) Inc(6.41) Azm(174.39) TVD(6751.95)  
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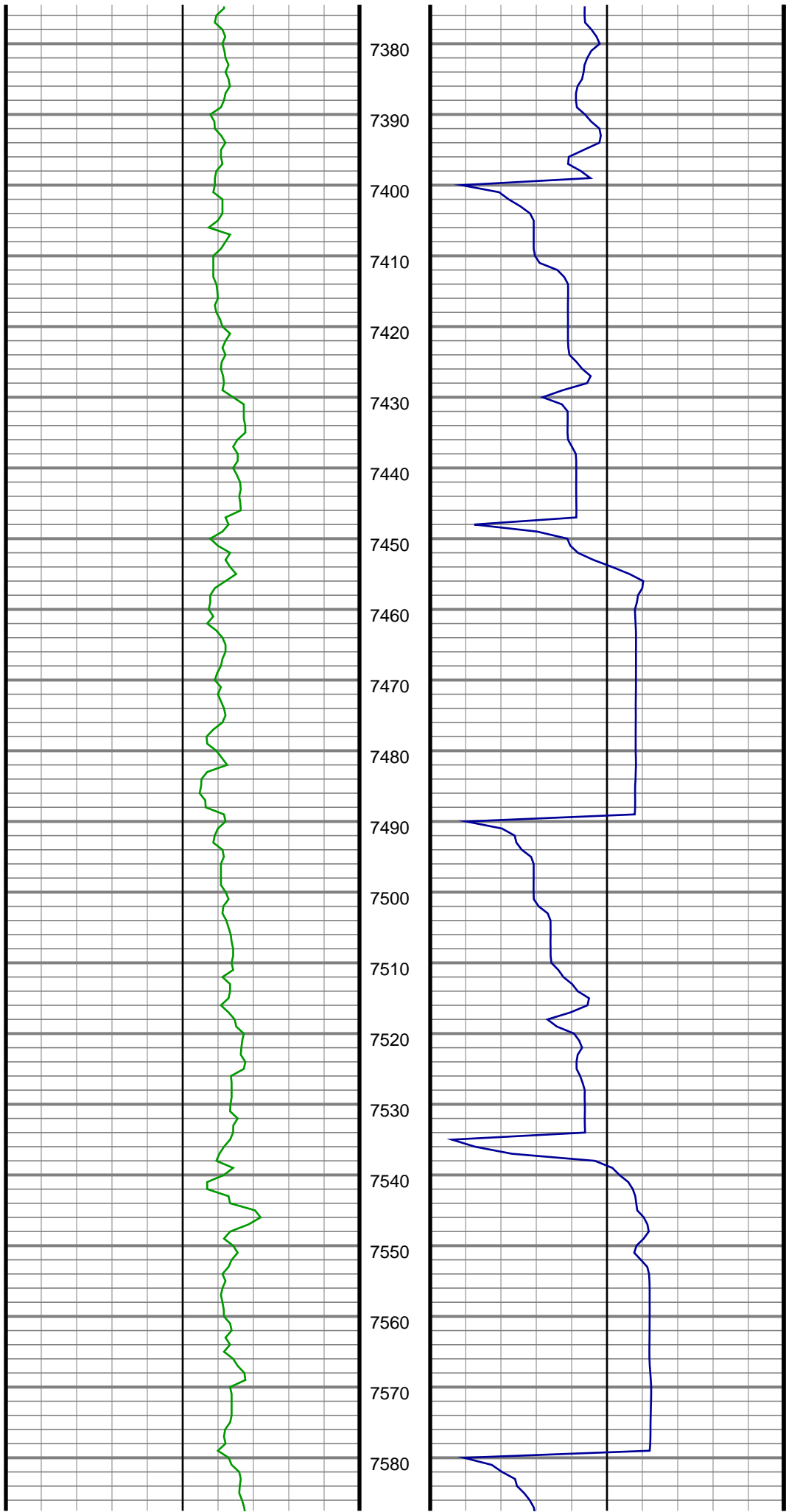
#78 MD(7064.00) Inc(4.24) Azm(157.86) TVD(6863.46)  
VS(-83.04) N/-S(-1411.37) E/-W(190.89)

#79 MD(7154.00) Inc(1.86) Azm(123.22) TVD(6953.34)  
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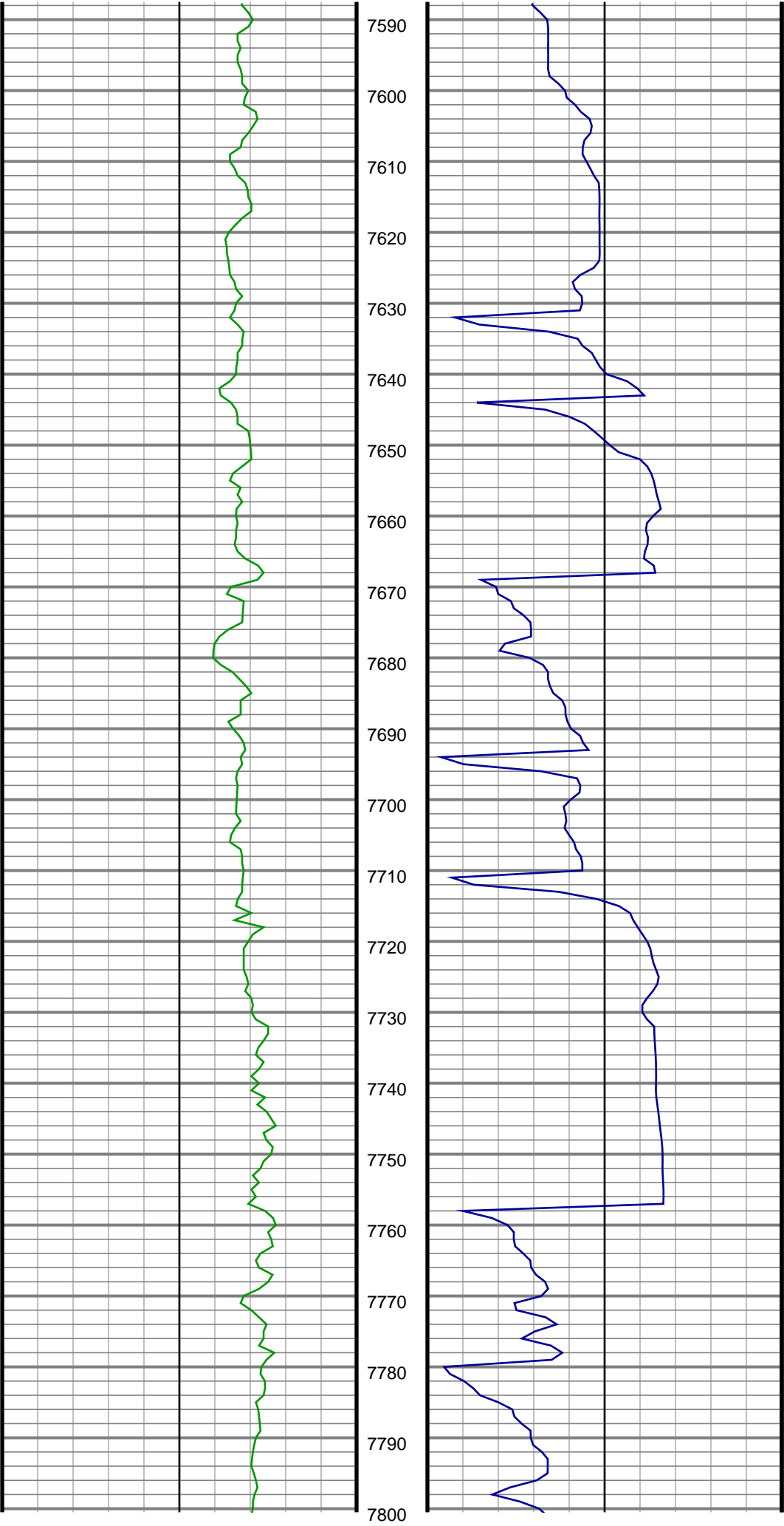
#80 MD(7244.00) Inc(2.21) Azm(237.89) TVD(7043.30)  
VS(-84.84) N/-S(-1416.98) E/-W(193.12)

#81 MD(7334.00) Inc(6.67) Azm(268.34) TVD(7133.02)  
VS(-78.08) N/-S(-1418.05) E/-W(186.42)



#82 MD(7423.00) Inc(19.53) Azm(278.52) TVD(7219.53)  
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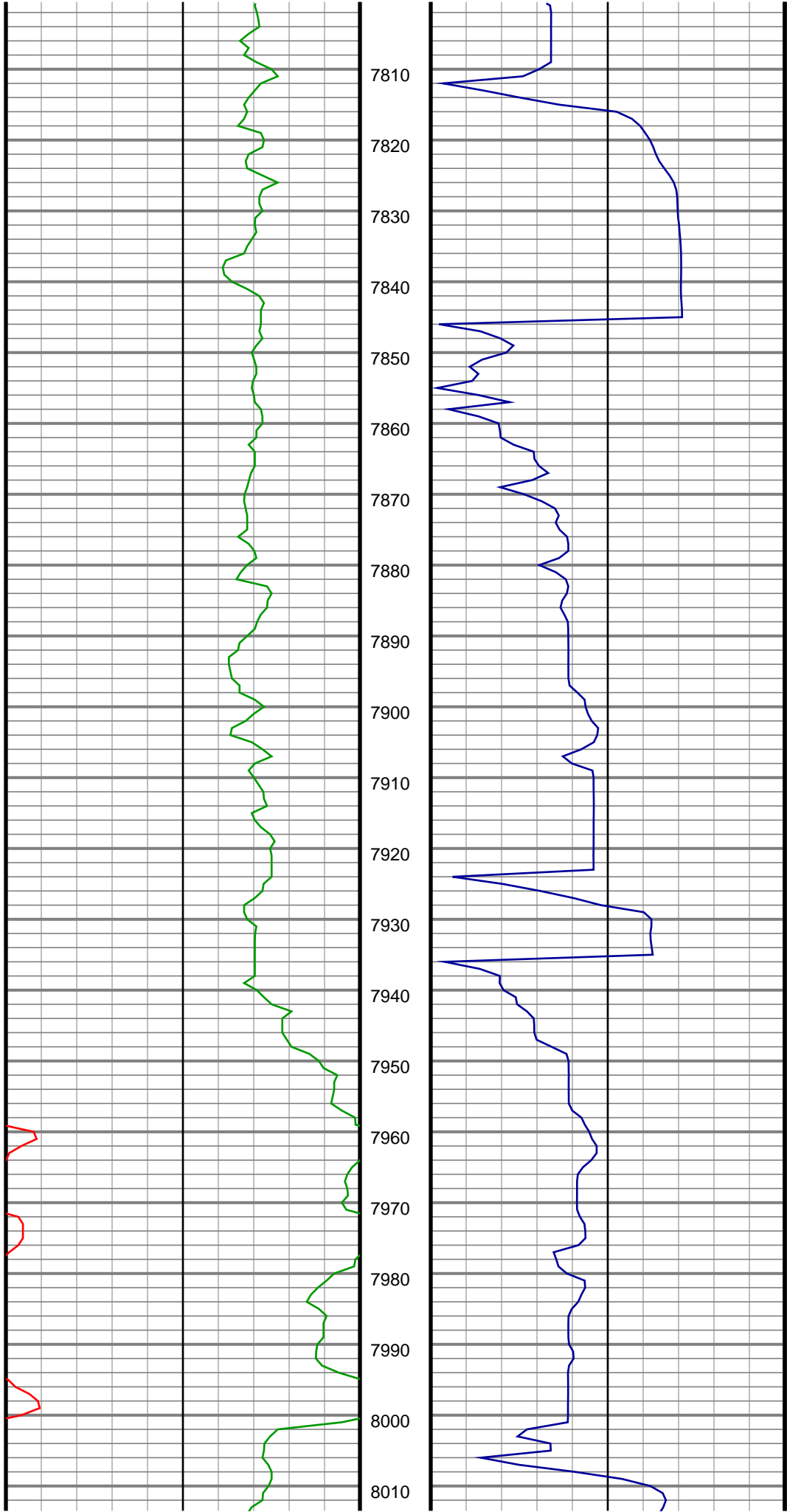
#83 MD(7513.00) Inc(24.66) Azm(273.23) TVD(7302.90)  
VS(-25.03) N/-S(-1412.70) E/-W(132.81)



#84 MD(7603.00) Inc(30.89) Azm(267.81) TVD(7382.51)  
VS(16.72) N/-S(-1412.53) E/-W(90.93)

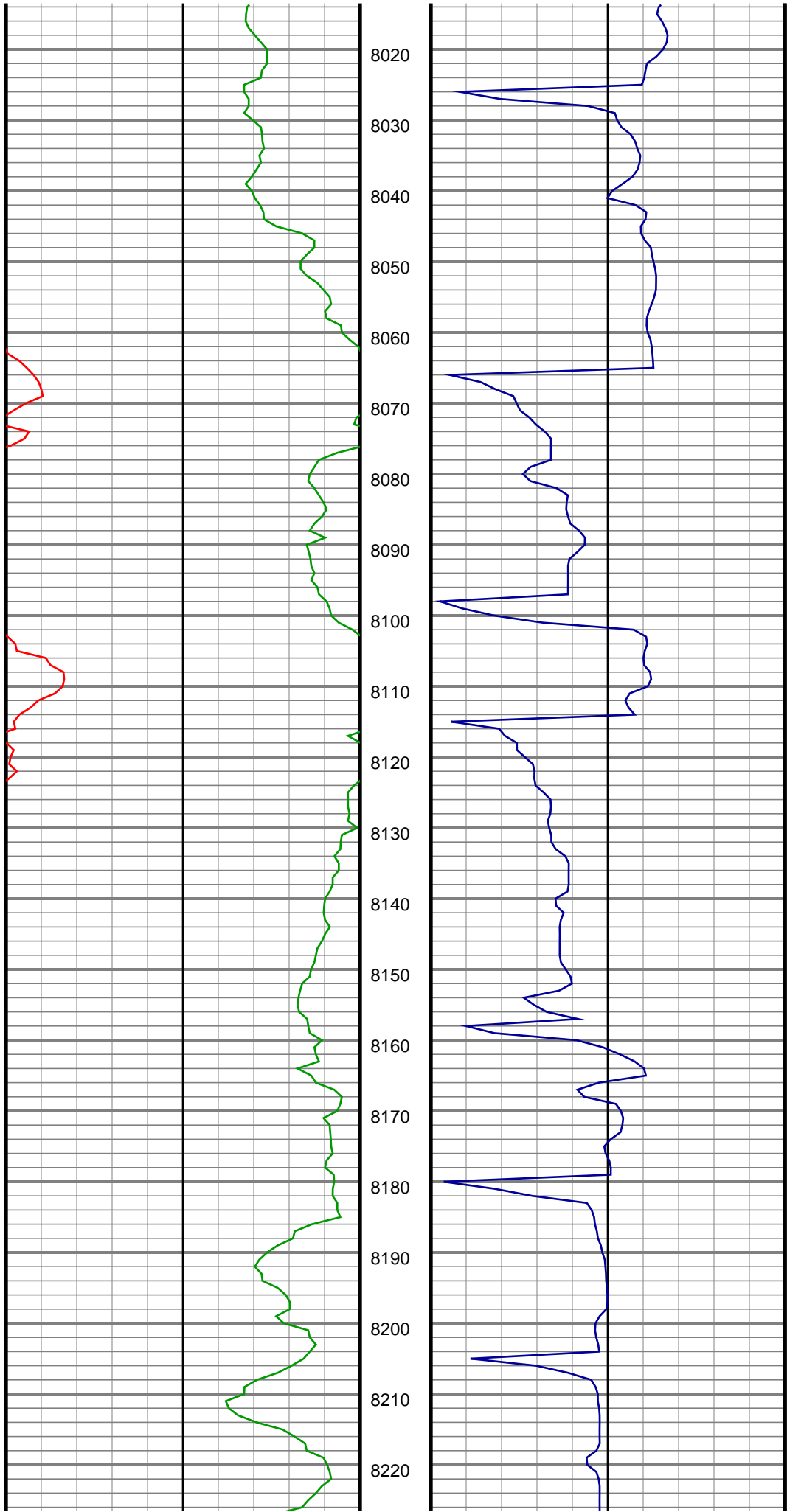
#85 MD(7693.00) Inc(37.61) Azm(269.92) TVD(7456.86)  
VS(67.25) N/-S(-1413.45) E/-W(40.32)

#86 MD(7782.00) Inc(41.58) Azm(270.76) TVD(7525.43)  
VS(123.77) N/-S(-1413.09) E/-W(-16.39)



#87 MD(7872.00) Inc(46.89) Azm(271.64) TVD(7589.89)  
VS(186.23) N/-S(-1411.76) E/-W(-79.14)

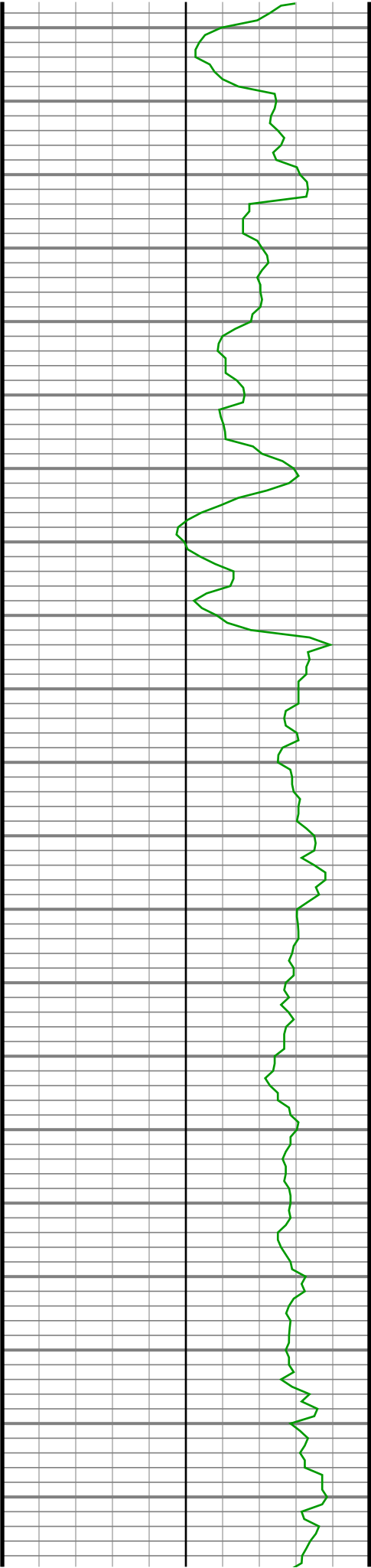
#88 MD(7961.00) Inc(59.08) Azm(275.04) TVD(7643.38)  
VS(256.48) N/-S(-1407.46) E/-W(-149.92)



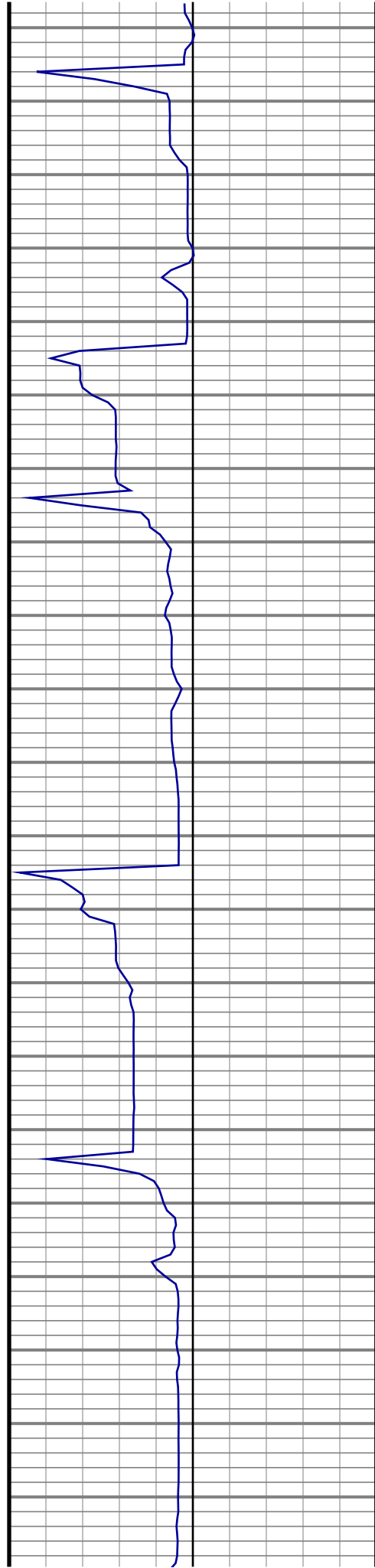
#89 MD(8050.00) Inc(66.06) Azm(271.64) TVD(7684.36)  
VS(334.71) N/-S(-1402.93) E/-W(-228.72)

#90 MD(8140.00) Inc(76.14) Azm(272.74) TVD(7713.48)  
VS(419.19) N/-S(-1399.66) E/-W(-313.69)





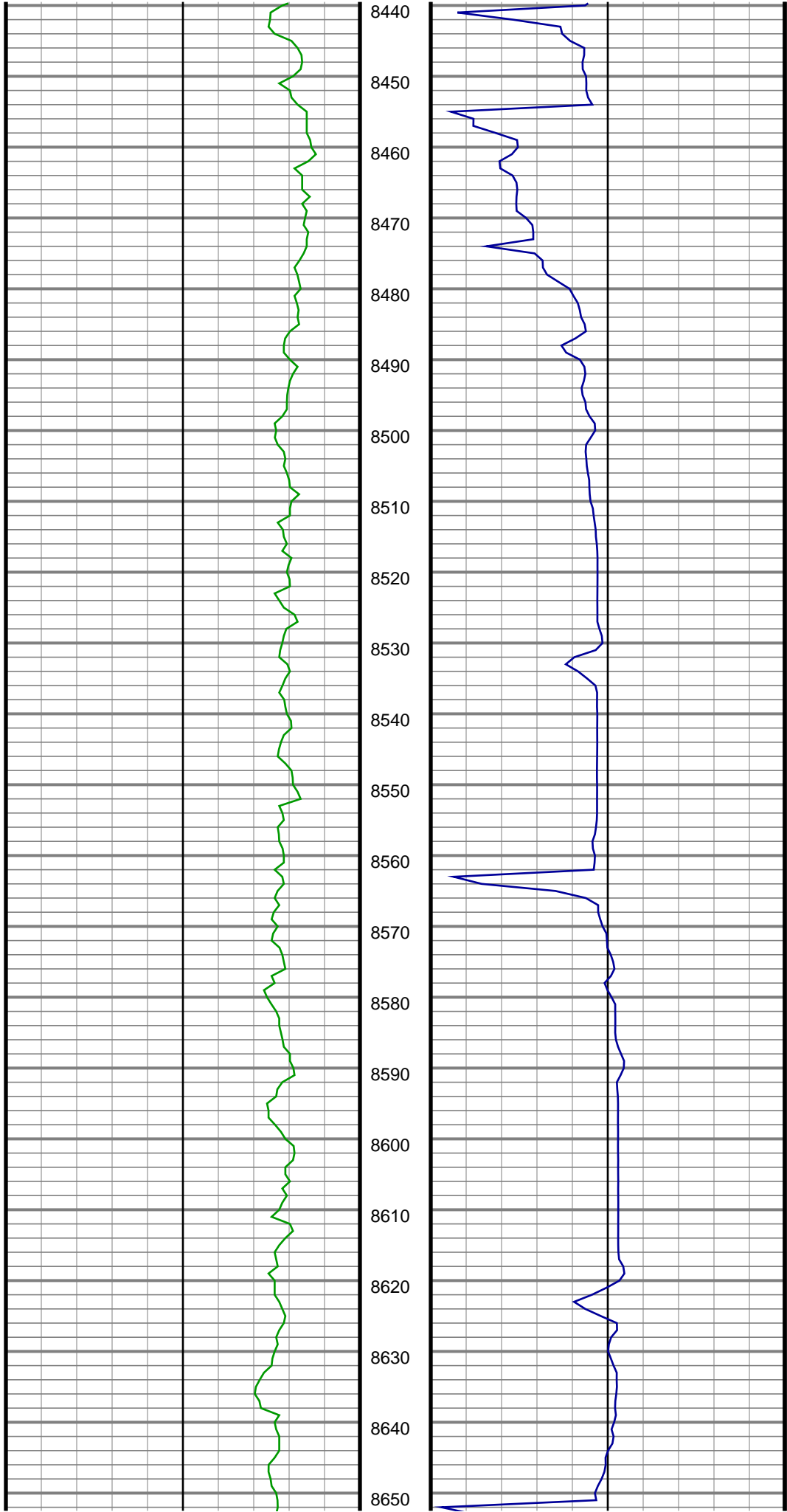
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#91 MD(8229.00) Inc(77.64) Azm(270.28) TVD(7733.67)  
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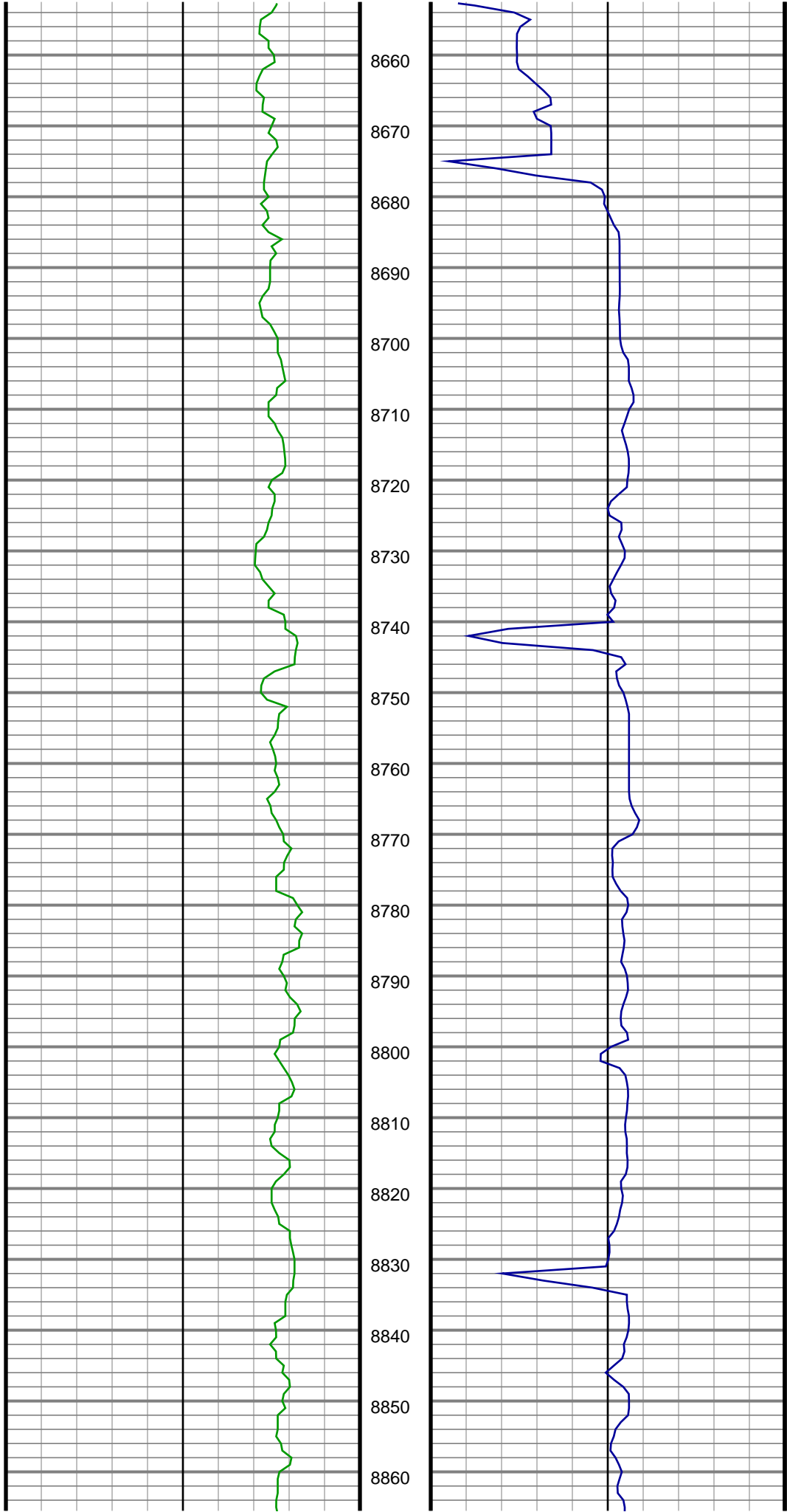
#92 MD(8320.00) Inc(79.94) Azm(270.19) TVD(7751.36)  
VS(594.38) N/-S(-1397.01) E/-W(-489.59)

#93 MD(8409.00) Inc(85.59) Azm(269.31) TVD(7762.56)  
VS(682.40) N/-S(-1397.40) E/-W(-577.84)



#94 MD(8499.00) Inc(89.00) Azm(268.87) TVD(7766.81)  
VS(772.13) N/-S(-1398.83) E/-W(-667.72)

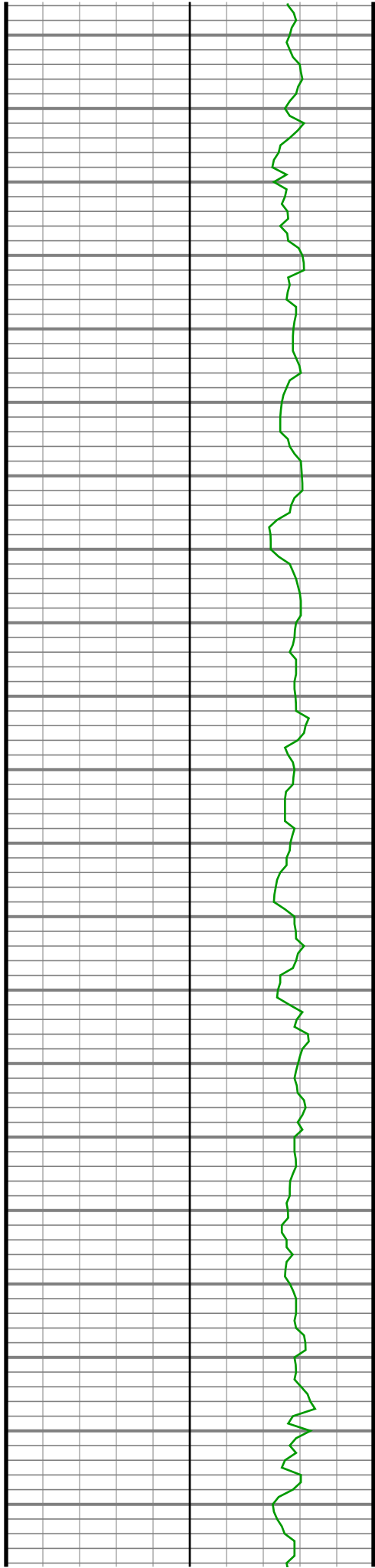
#95 MD(8589.00) Inc(88.38) Azm(268.87) TVD(7768.87)  
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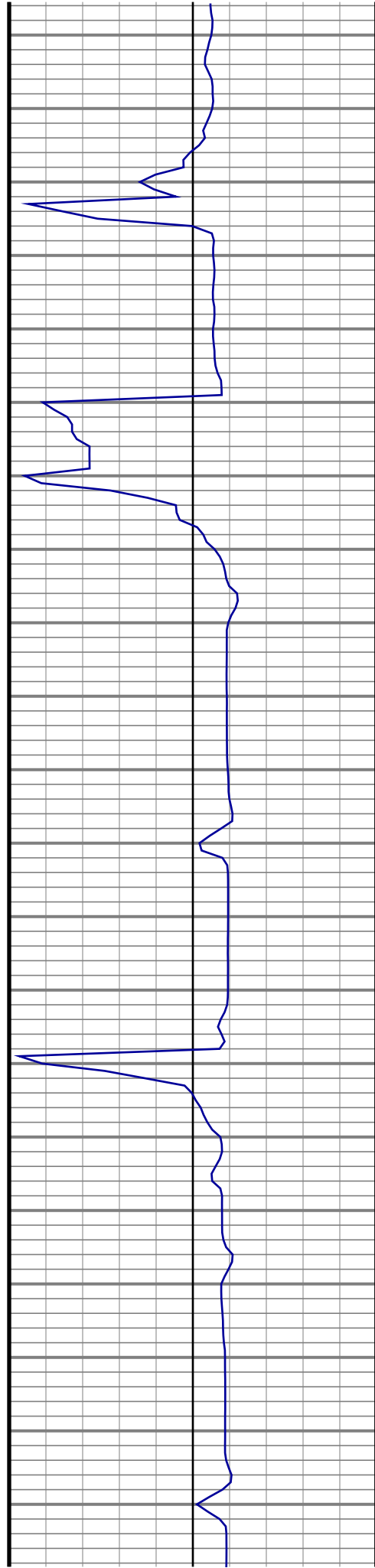
#96 MD(8678.00) Inc(89.70) Azm(272.39) TVD(7770.36)  
VS(950.59) N/-S(-1399.63) E/-W(-846.64)

#97 MD(8769.00) Inc(89.70) Azm(273.23) TVD(7770.83)  
VS(1040.88) N/-S(-1395.17) E/-W(-937.53)

#98 MD(8858.00) Inc(89.26) Azm(273.32) TVD(7771.64)  
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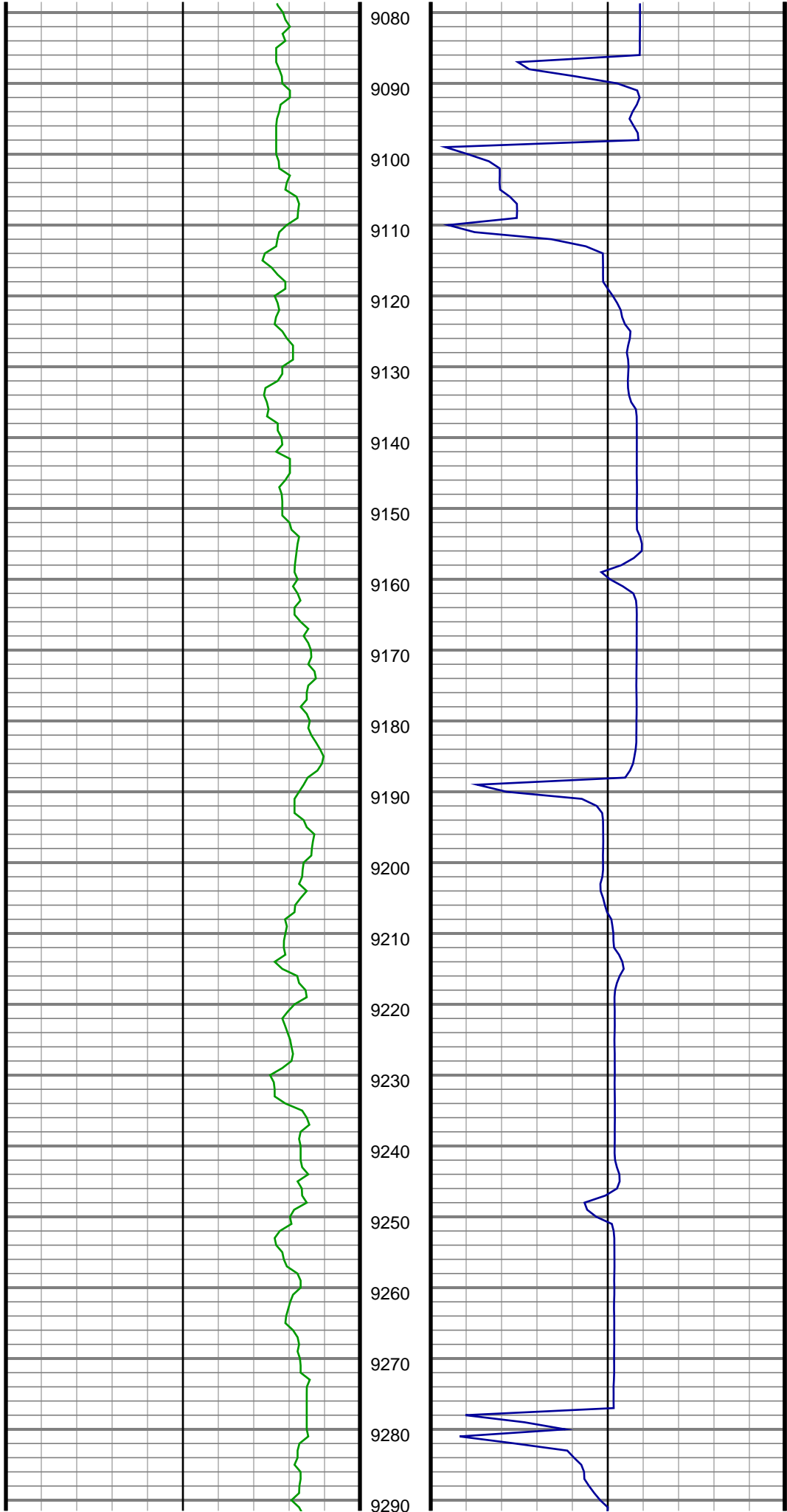


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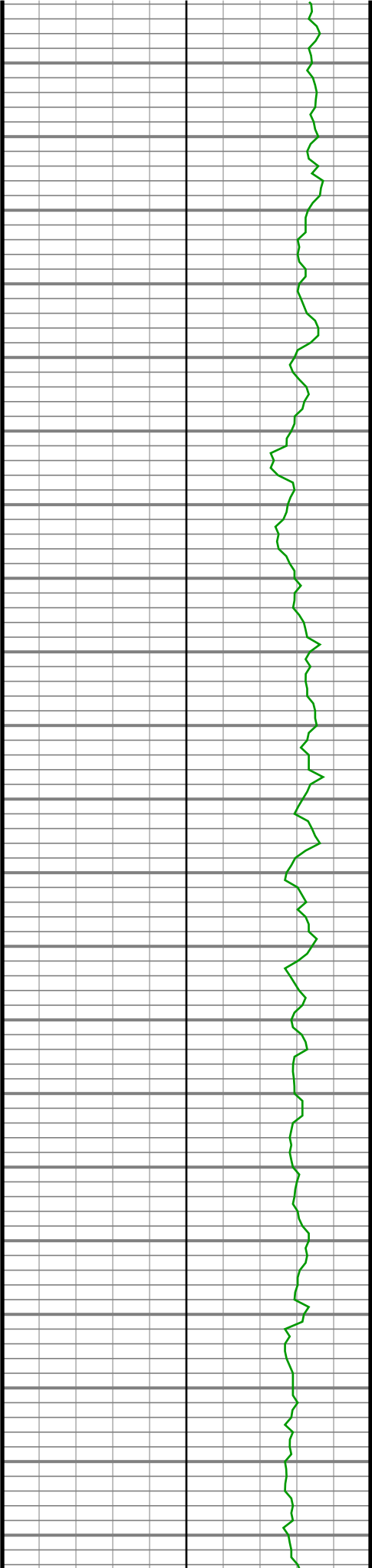
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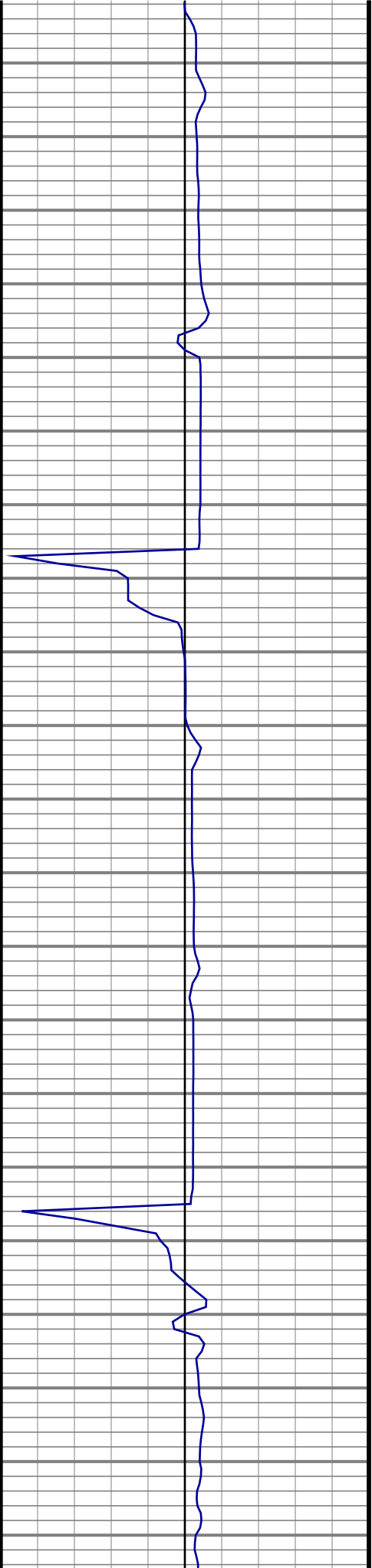


#101 MD(9127.00) Inc(90.46) Azm(269.79) TVD(7772.92)  
VS(1396.78) N/-S(-1384.36) E/-W(-1295.28)

#102 MD(9217.00) Inc(90.28) Azm(270.19) TVD(7772.34)  
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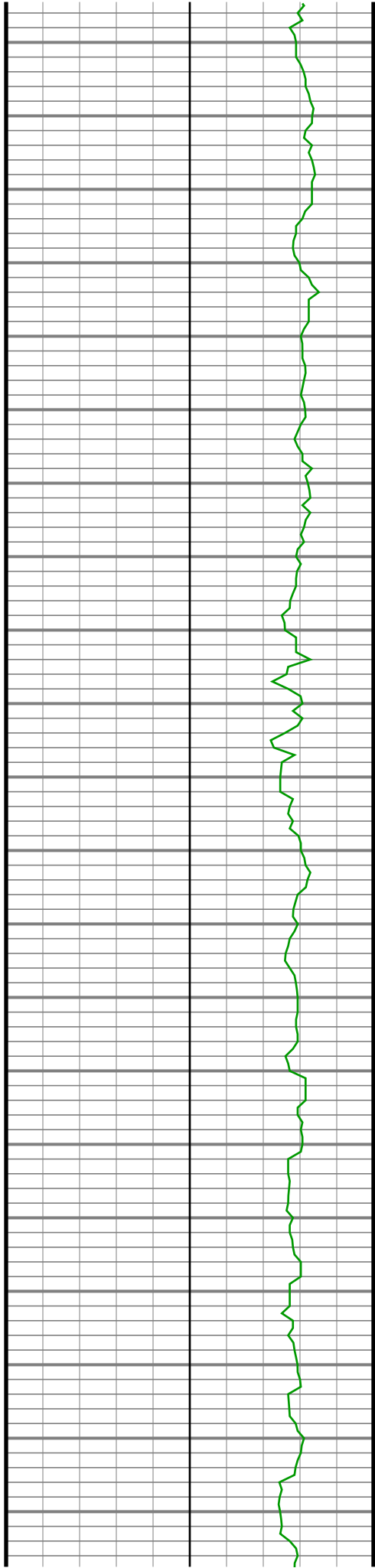
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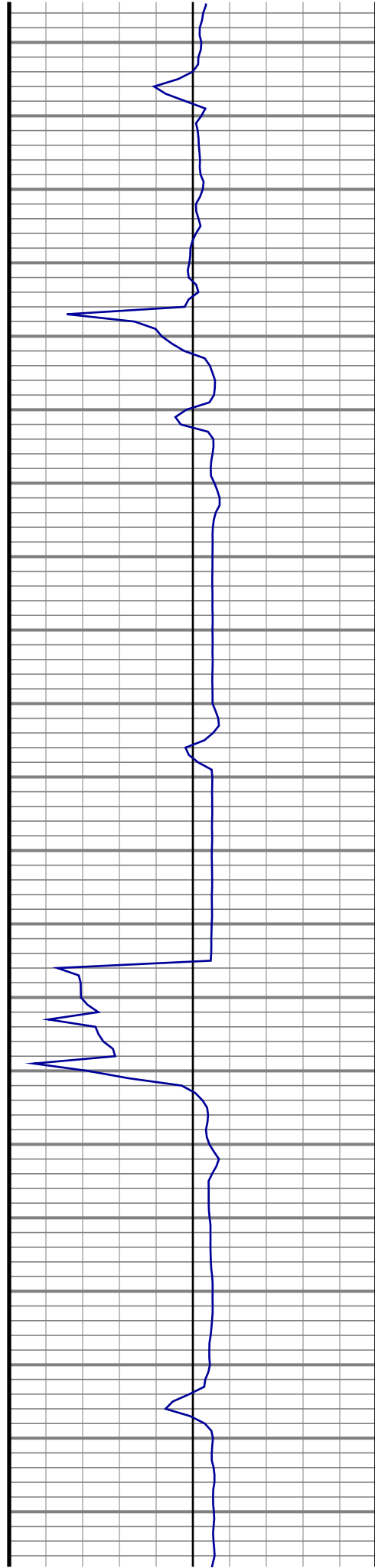
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#104 MD(9396.00) Inc(89.57) Azm(269.40) TVD(7772.44)  
VS(1665.06) N/-S(-1385.22) E/-W(-1564.28)

#105 MD(9485.00) Inc(89.17) Azm(268.43) TVD(7773.42)  
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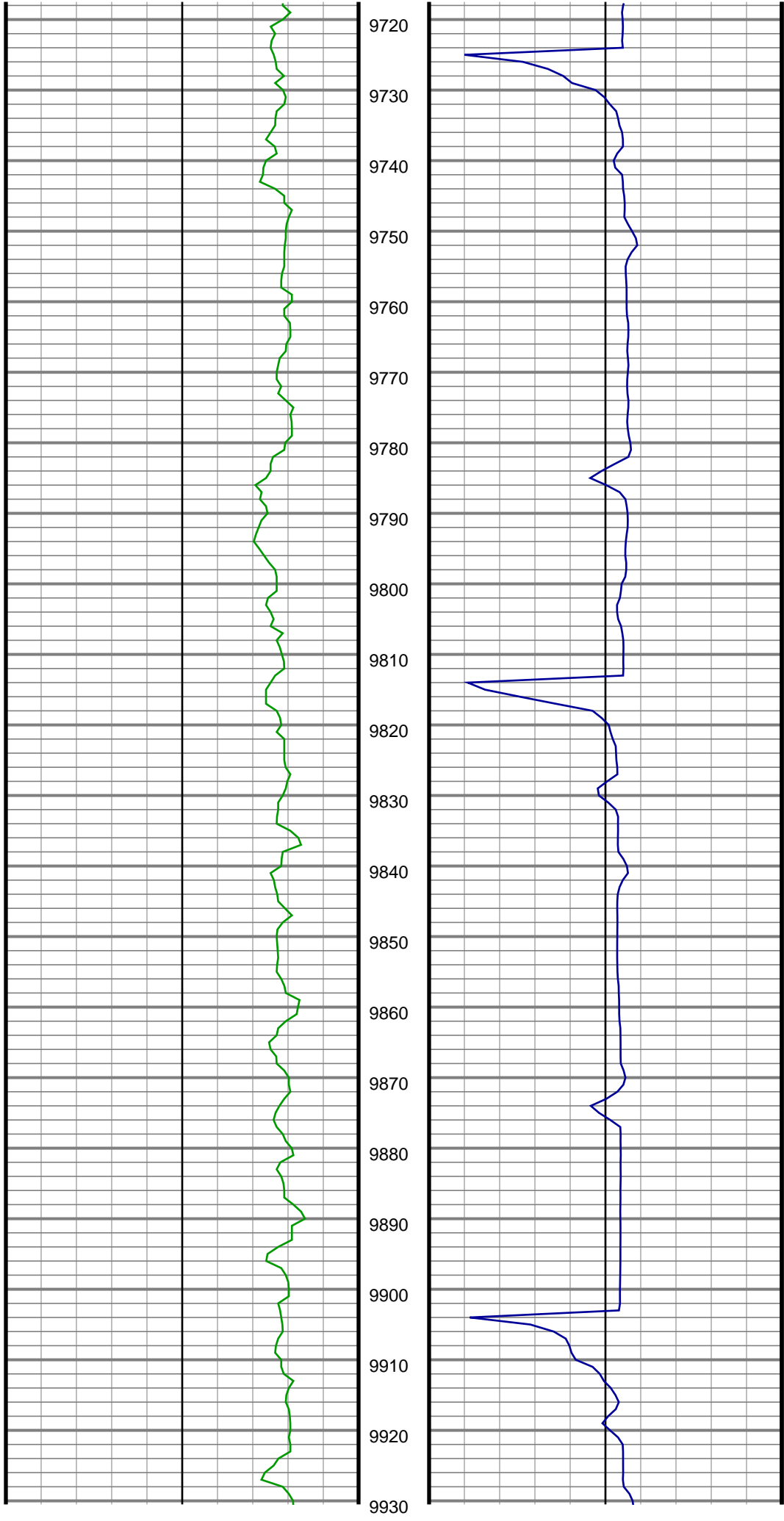


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#106 MD(9575.00) Inc(88.91) Azm(267.85) TVD(7774.93)  
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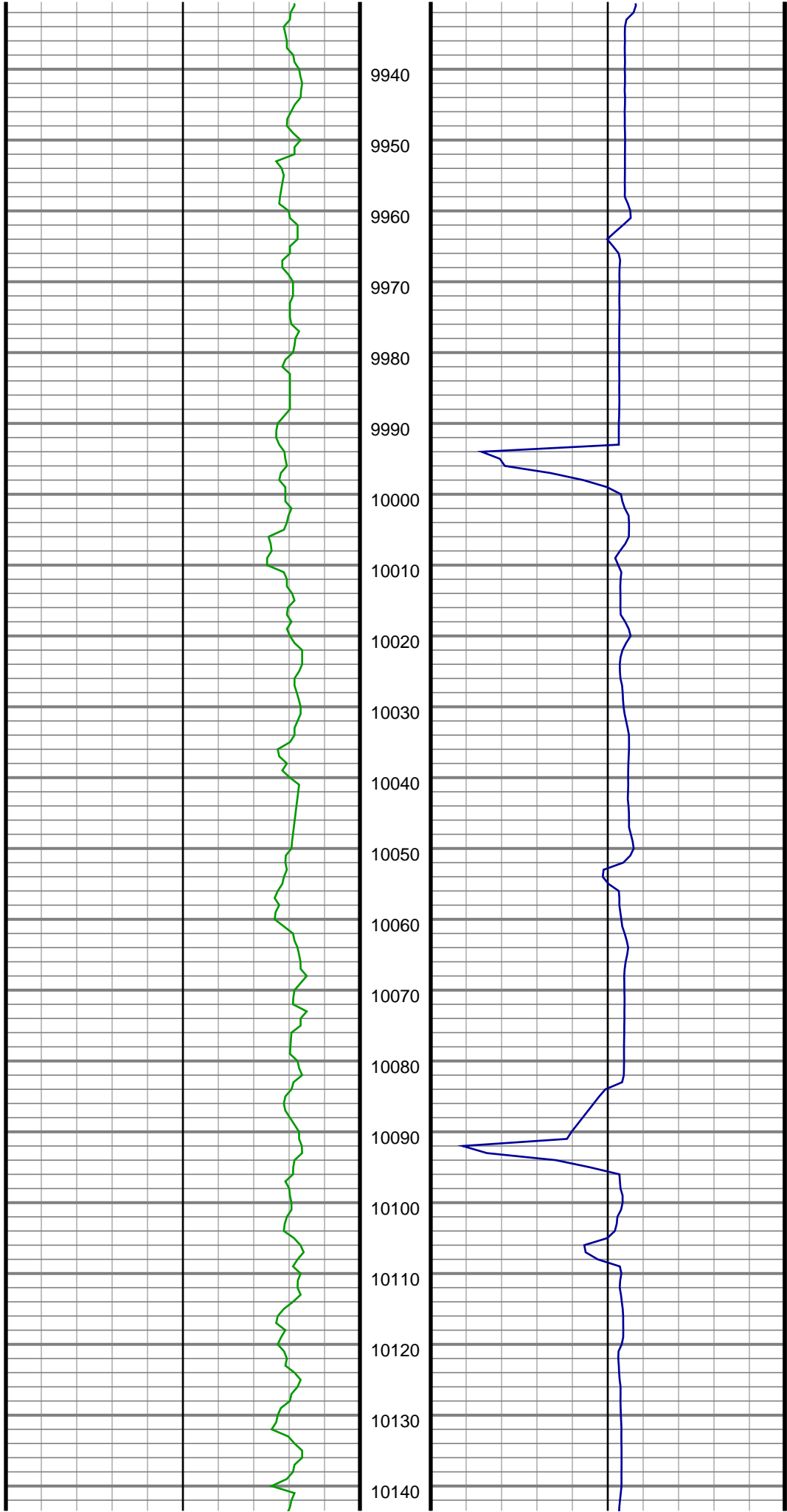
#107 MD(9665.00) Inc(90.41) Azm(269.48) TVD(7775.46)  
VS(1933.67) N/-S(-1391.93) E/-W(-1833.16)



#108 MD(9755.00) Inc(90.37) Azm(268.82) TVD(7774.85)  
VS(2023.50) N/-S(-1393.26) E/-W(-1923.15)

#109 MD(9844.00) Inc(90.23) Azm(268.69) TVD(7774.38)  
VS(2112.37) N/-S(-1395.19) E/-W(-2012.13)

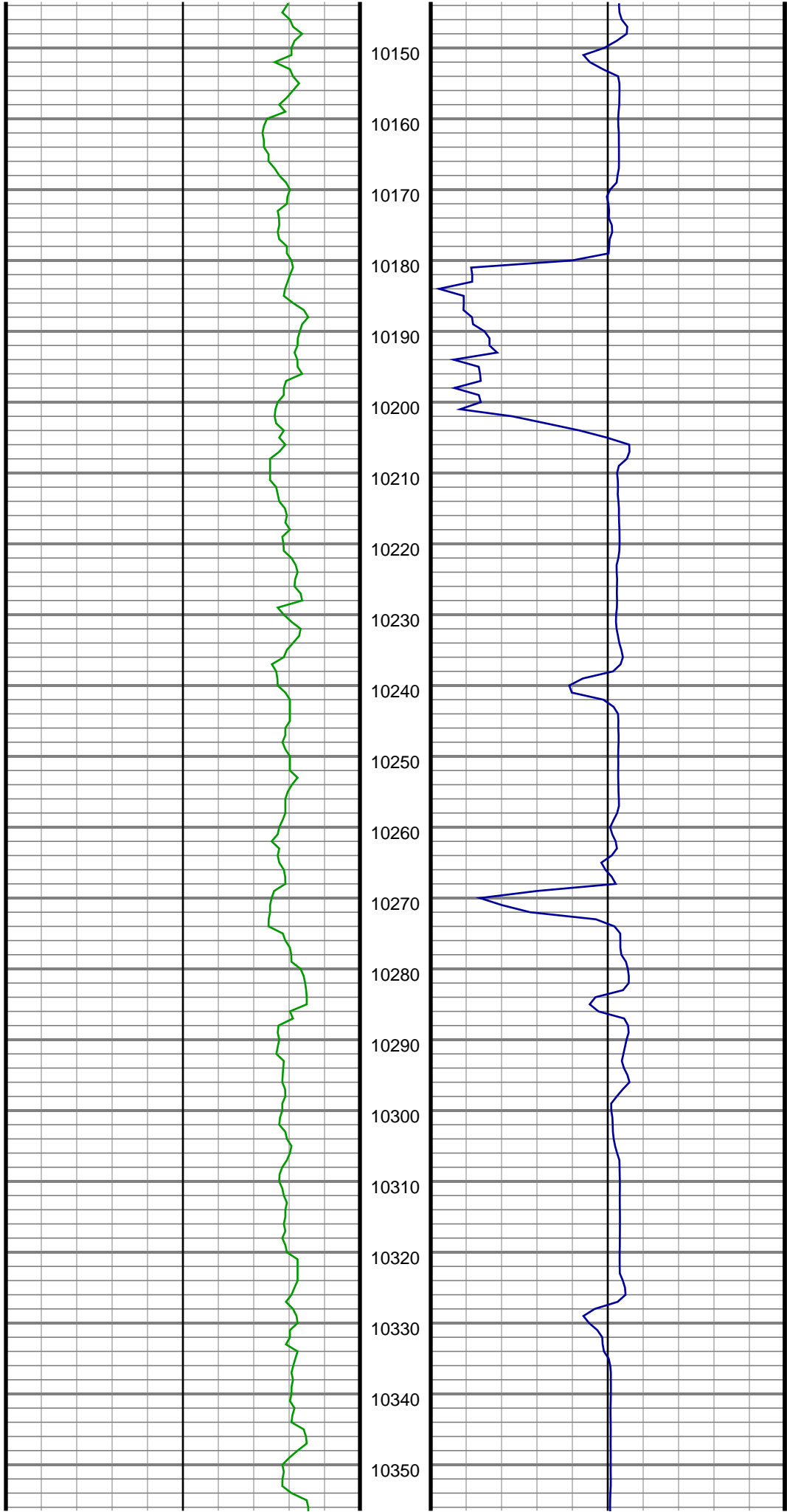




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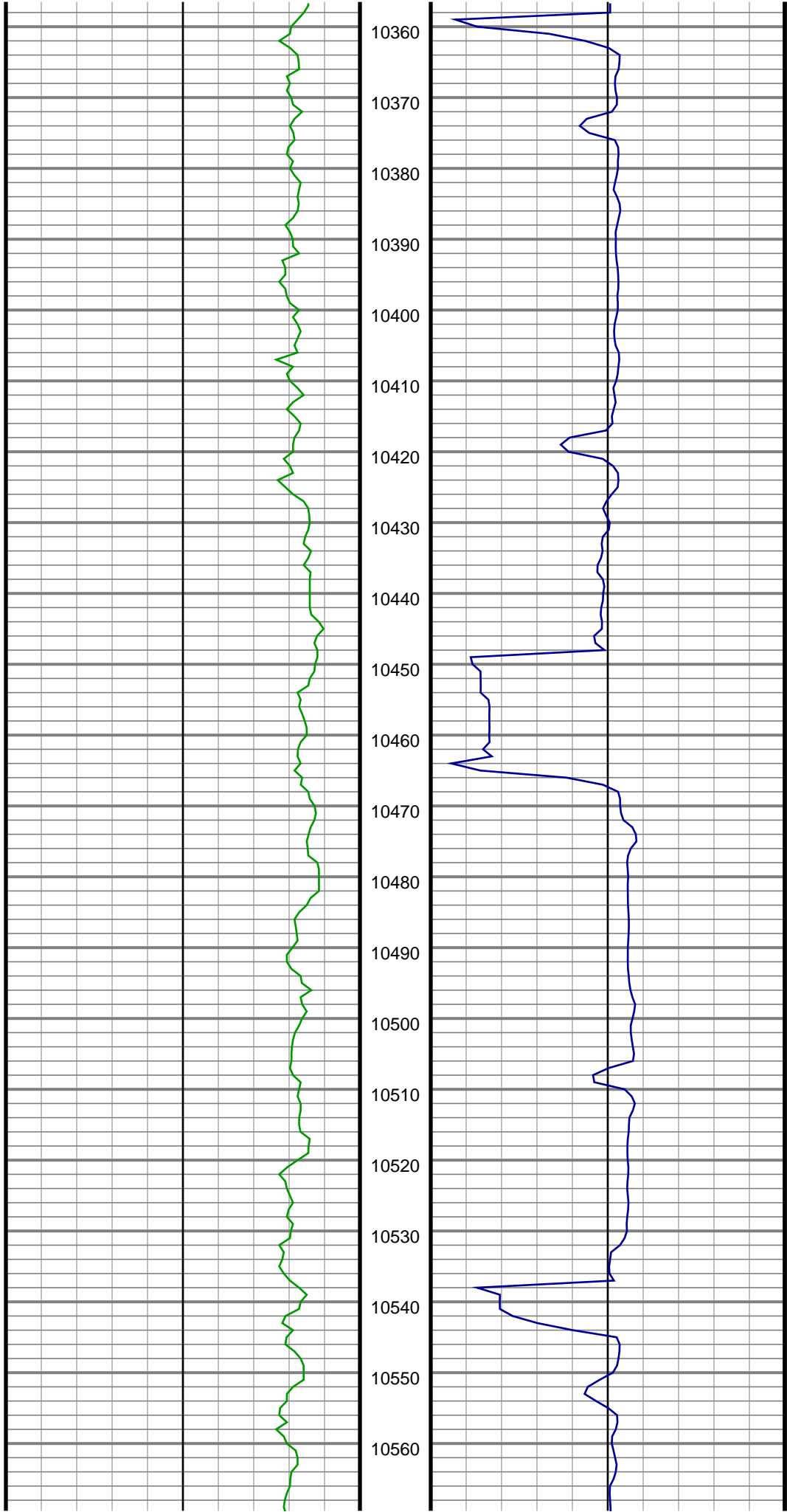
#111 MD(10023.00) Inc(89.53) Azm(268.25) TVD(7774.55)  
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#112 MD(10113.00) Inc(89.44) Azm(267.72) TVD(7775.36)  
VS(2381.07) N/-S(-1403.14) E/-W(-2281.00)



#113 MD(10204.00) Inc(88.78) Azm(269.75) TVD(7776.77)  
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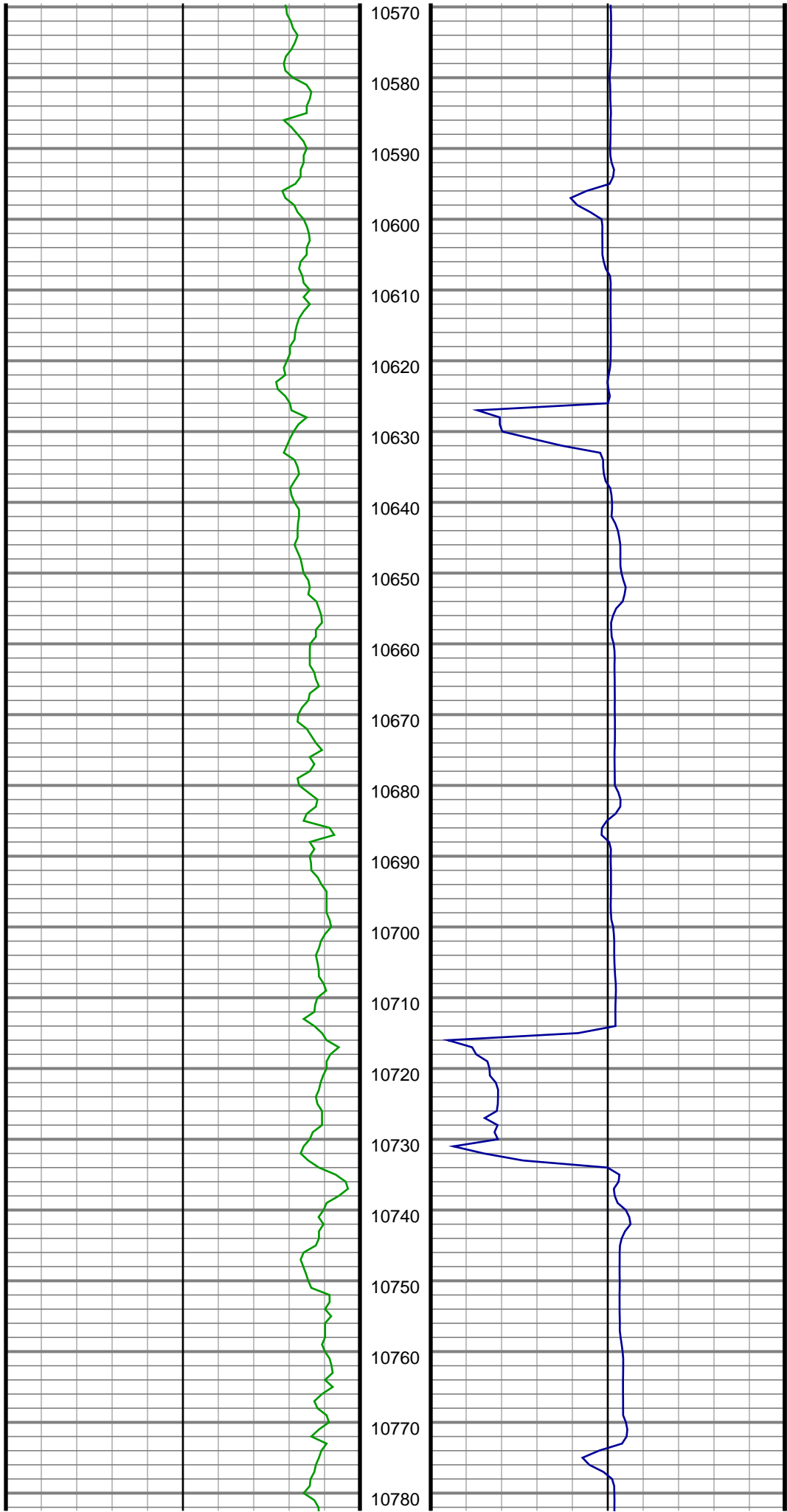
#114 MD(10293.00) Inc(88.86) Azm(269.75) TVD(7778.61)  
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#115 MD(10382.00) Inc(89.13) Azm(269.18) TVD(7780.17)  
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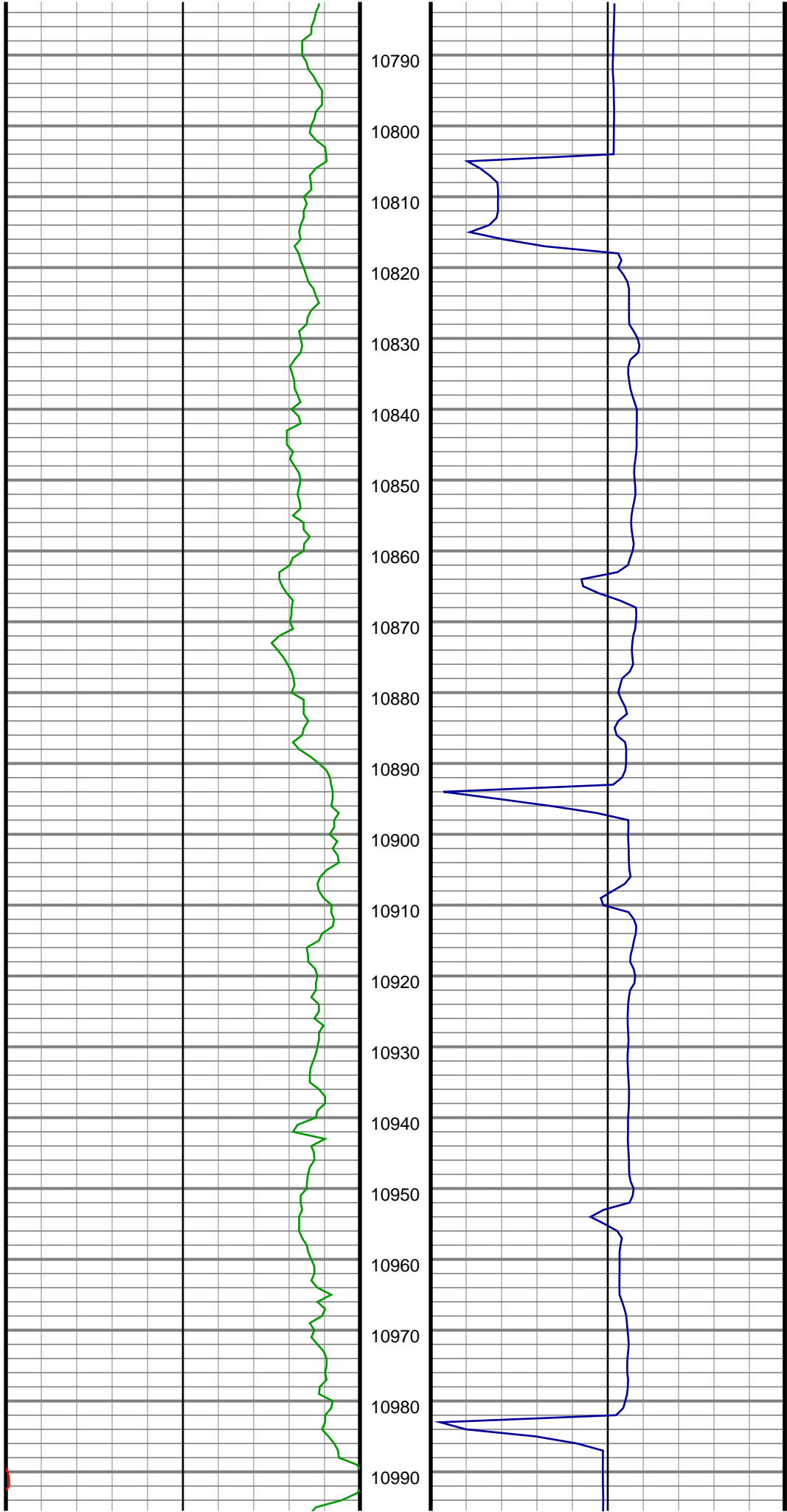
#116 MD(10471.00) Inc(87.32) Azm(269.92) TVD(7782.92)  
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#117 MD(10561.00) Inc(87.54) Azm(269.92) TVD(7786.96)  
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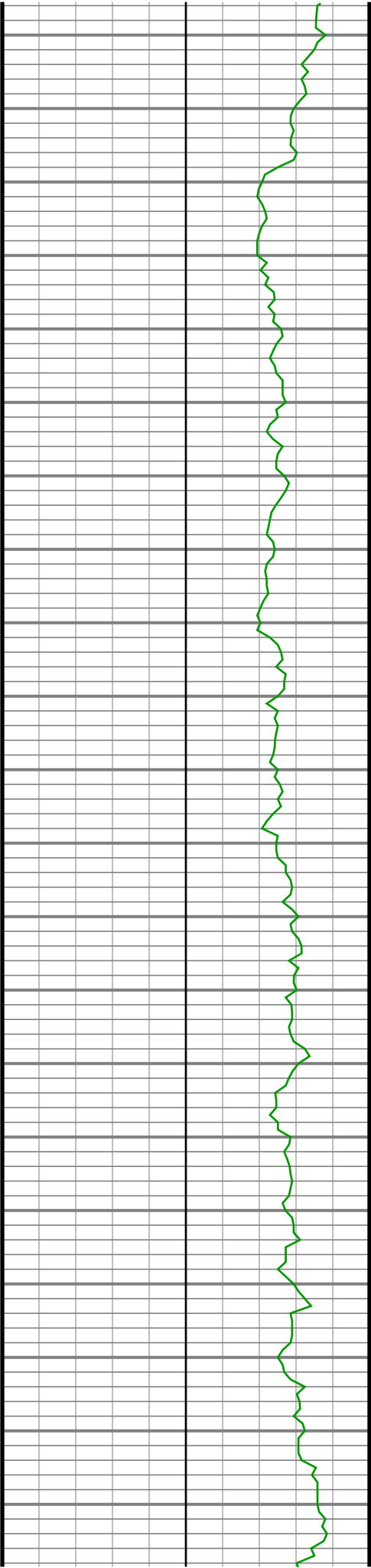
#118 MD(10650.00) Inc(87.14) Azm(269.66) TVD(7791.09)  
VS(2916.54) N/-S(-1407.51) E/-W(-2817.69)

#119 MD(10740.00) Inc(87.10) Azm(270.98) TVD(7795.61)  
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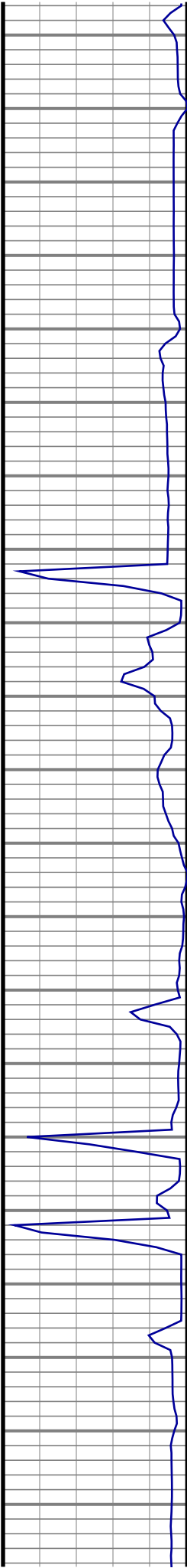


#120 MD(10829.00) Inc(87.89) Azm(271.16) TVD(7799.50)  
VS(3094.64) N/-S(-1405.35) E/-W(-2996.47)

#121 MD(10919.00) Inc(87.41) Azm(270.41) TVD(7803.19)  
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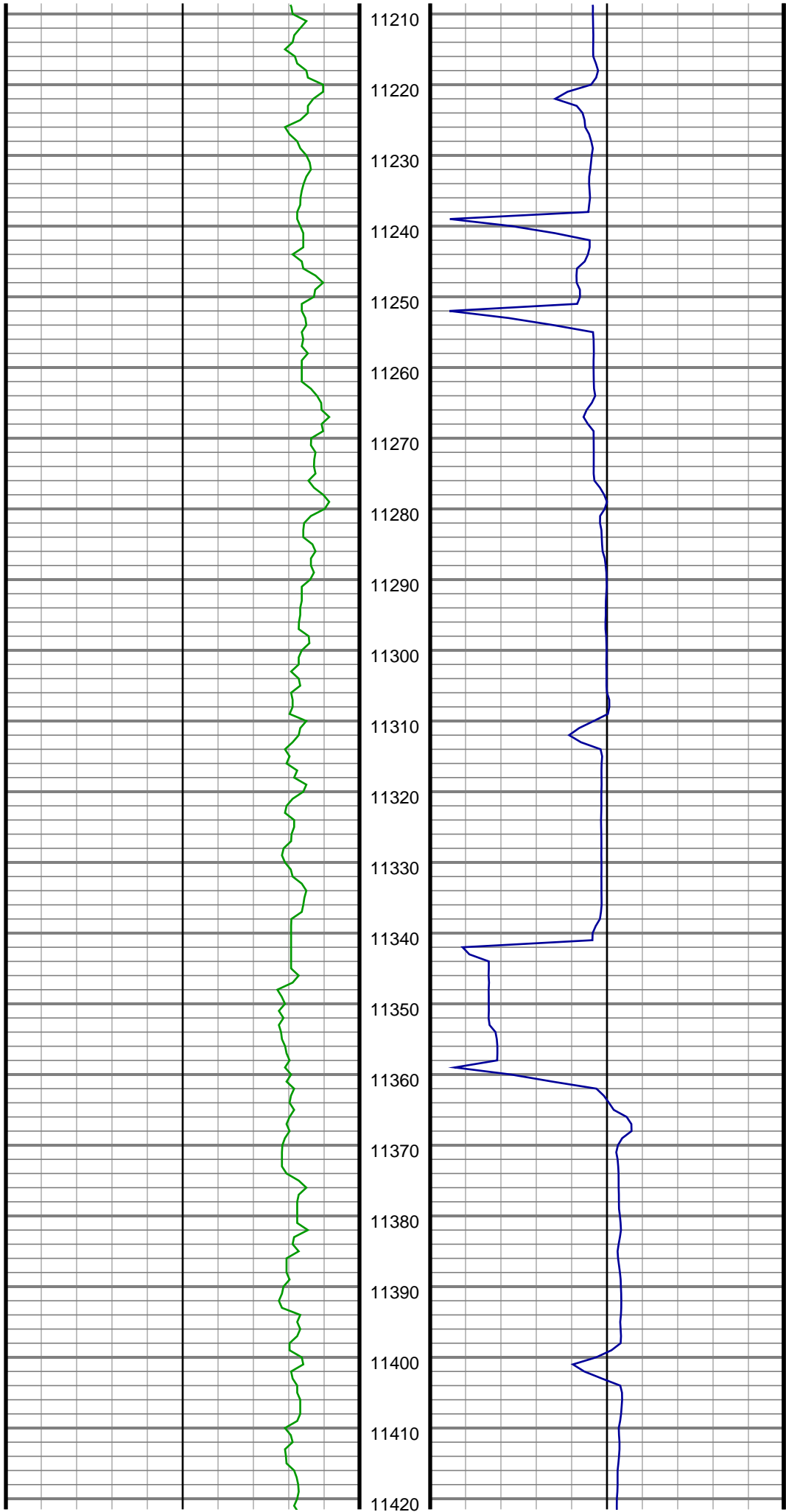
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#122 MD(11009.00) Inc(87.36) Azm(270.23) TVD(7807.30)  
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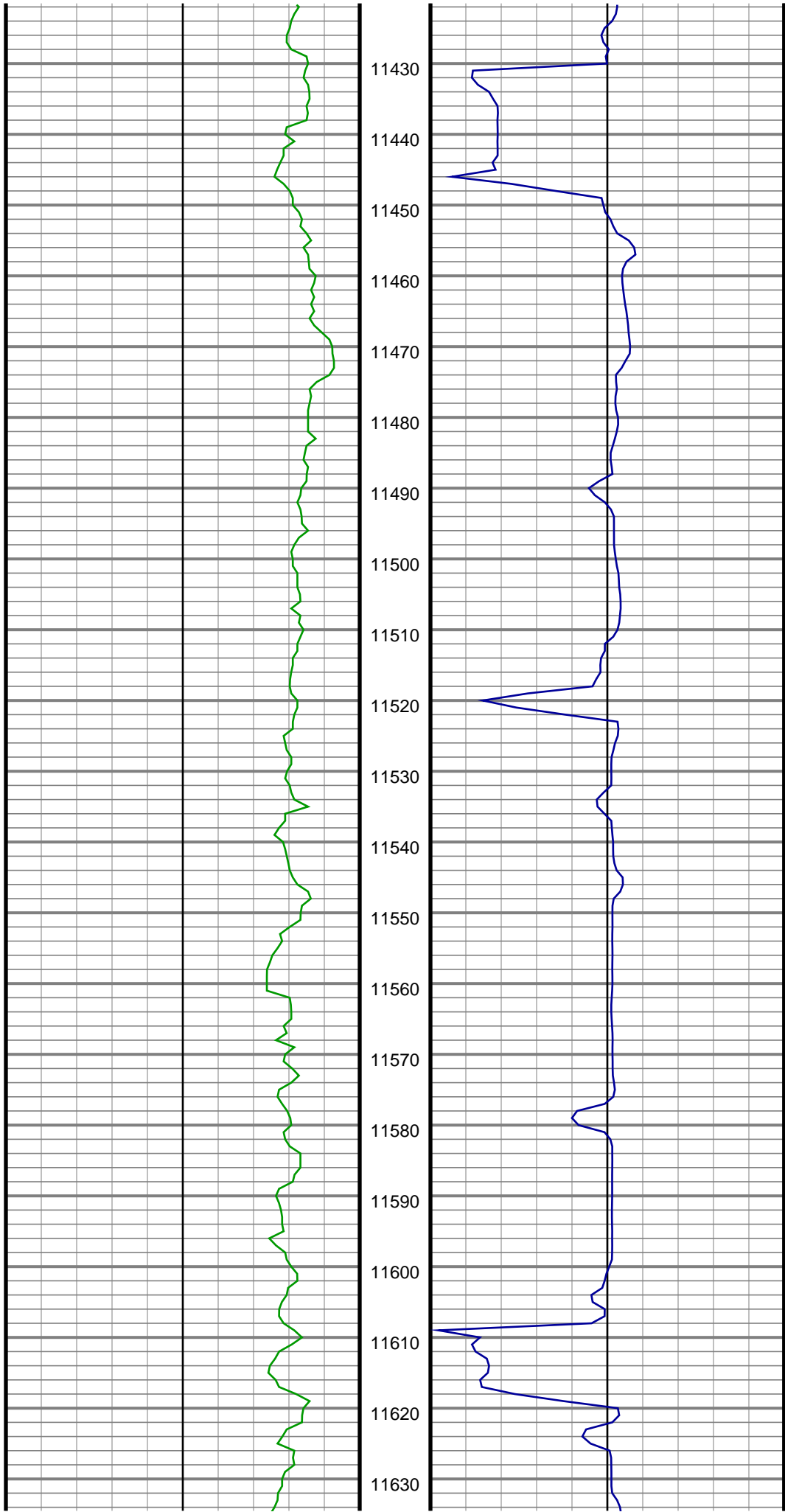
#123 MD(11098.00) Inc(87.36) Azm(270.32) TVD(7811.40)  
VS(3362.42) N/-S(-1403.19) E/-W(-3265.19)

#124 MD(11187.00) Inc(87.32) Azm(269.79) TVD(7815.53)  
VS(3451.06) N/-S(-1403.11) E/-W(-3354.10)



#125 MD(11276.00) Inc(87.10) Azm(269.13) TVD(7819.86)  
VS(3539.75) N/-S(-1403.94) E/-W(-3442.99)

#126 MD(11366.00) Inc(88.78) Azm(269.13) TVD(7823.10)  
VS(3629.53) N/-S(-1405.31) E/-W(-3532.92)

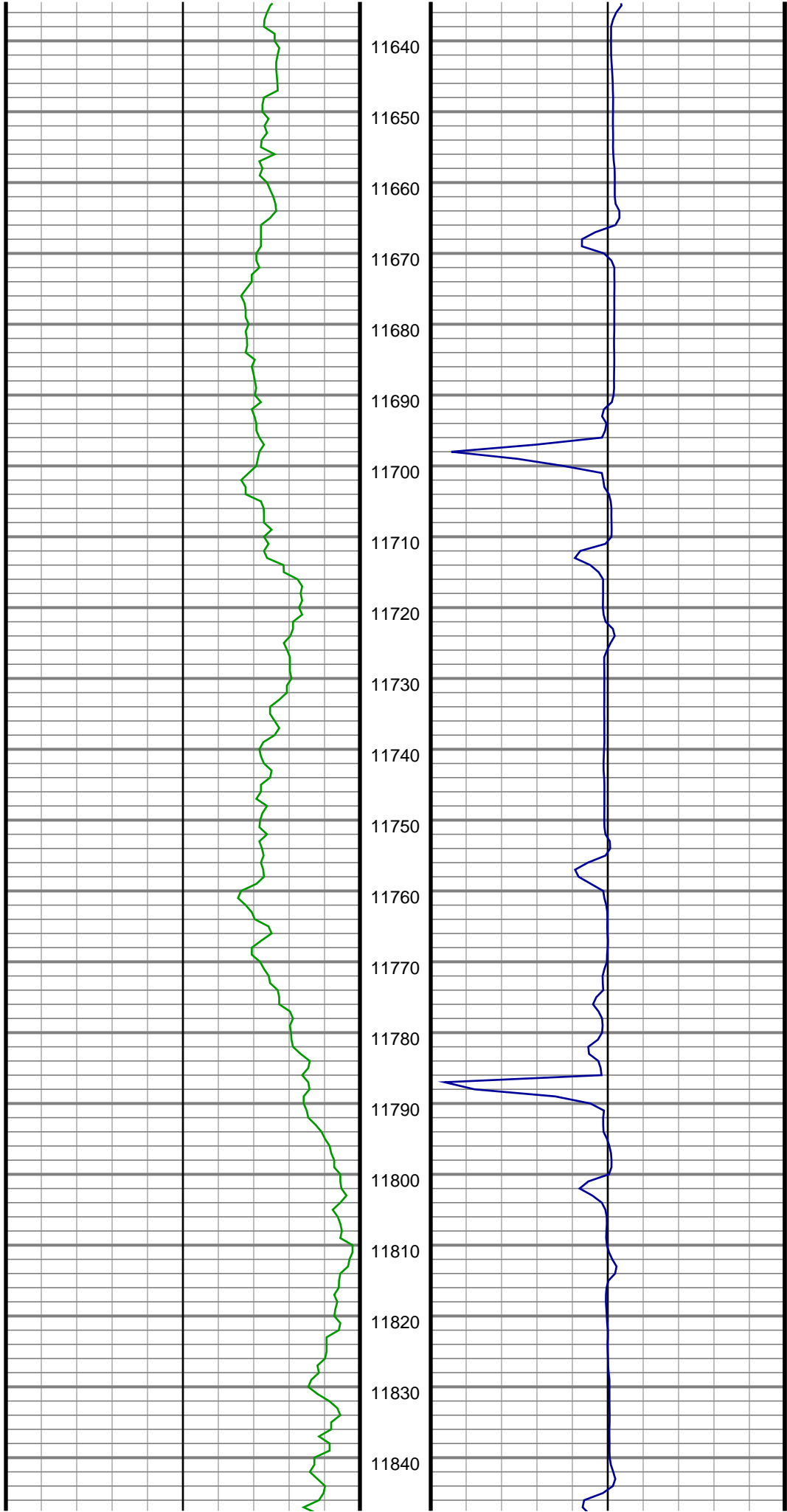


#127 MD(11455.00) Inc(89.70) Azm(270.81) TVD(7824.28)  
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#128 MD(11545.00) Inc(90.15) Azm(271.29) TVD(7824.39)  
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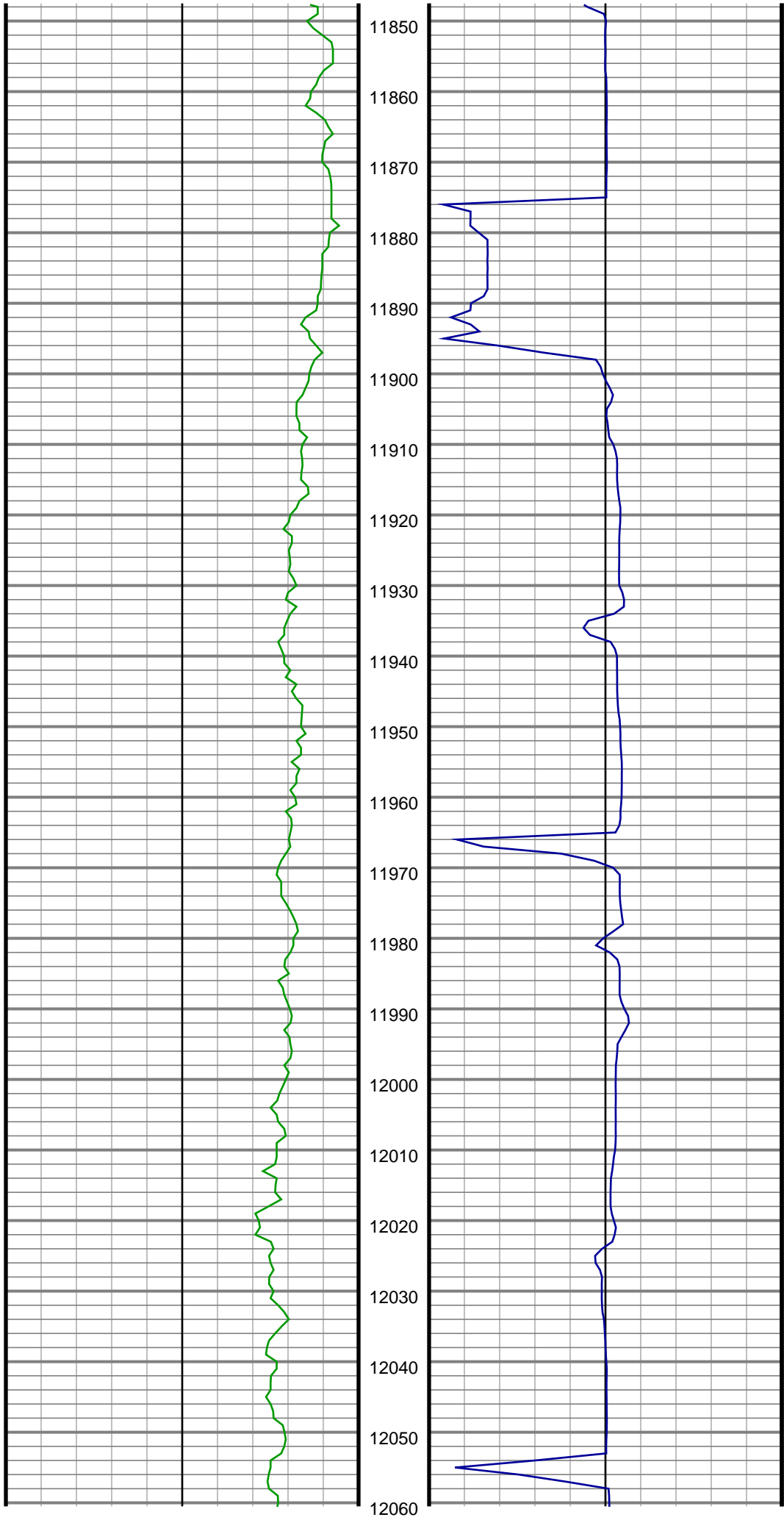
#129 MD(11634.00) Inc(90.90) Azm(269.88) TVD(7823.58)  
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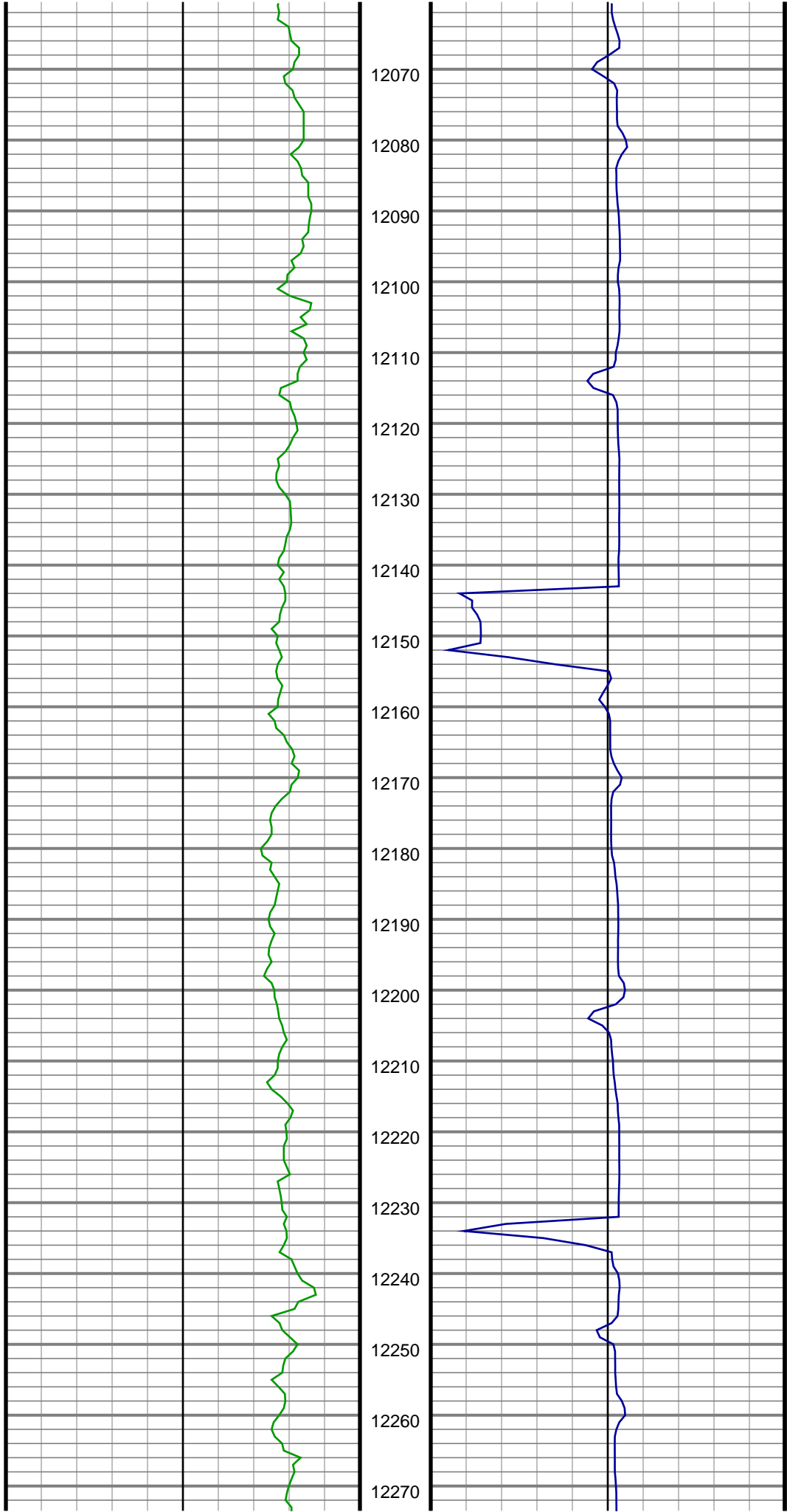
#130 MD(11723.00) Inc(90.99) Azm(269.75) TVD(7822.11)  
VS(3985.27) N/-S(-1403.09) E/-W(-3889.86)

#131 MD(11813.00) Inc(90.77) Azm(268.43) TVD(7820.73)  
VS(4075.10) N/-S(-1404.51) E/-W(-3979.84)



#132 MD(11902.00) Inc(91.30) Azm(271.33) TVD(7819.12)  
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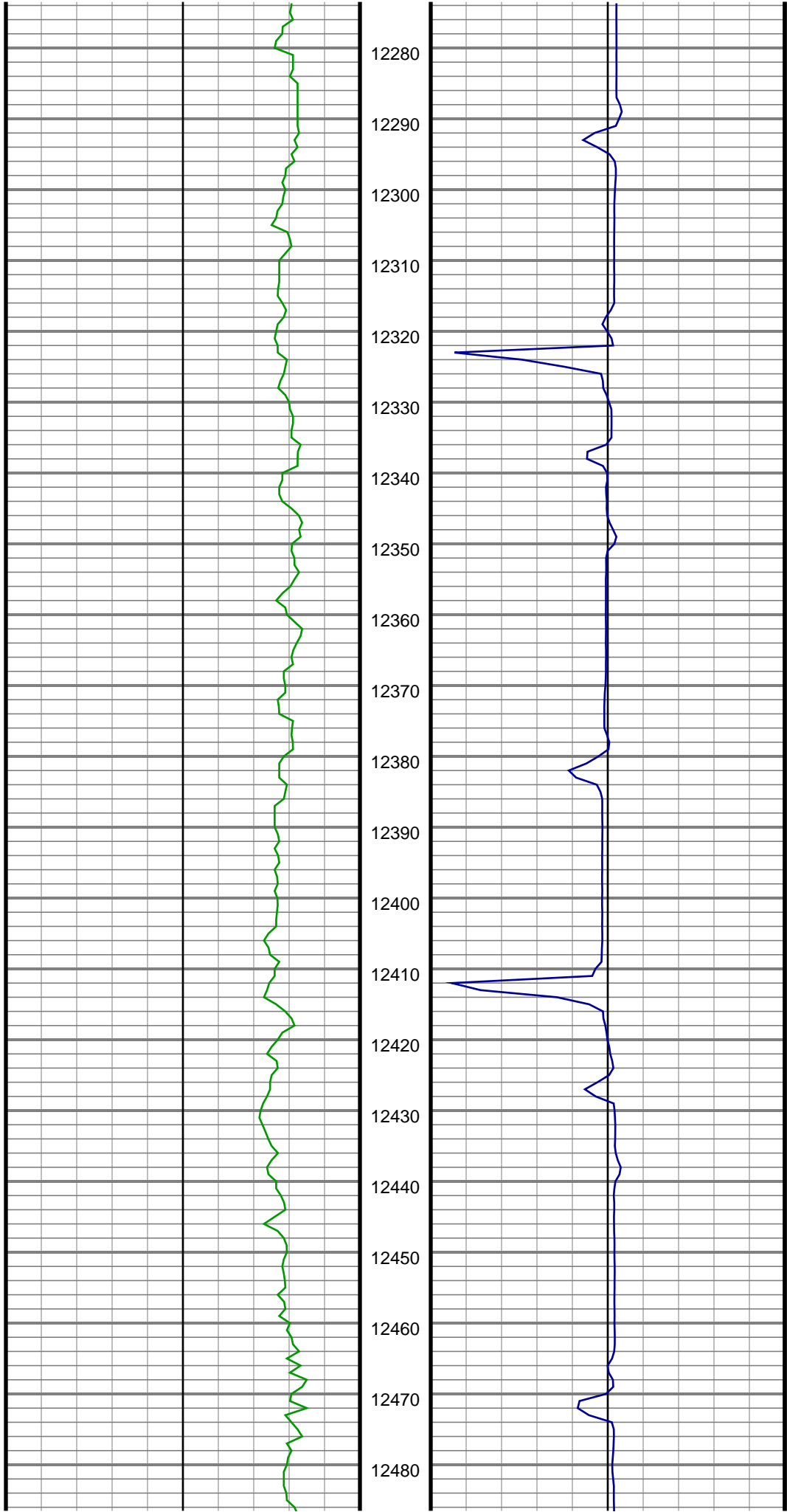
#133 MD(11991.00) Inc(91.38) Azm(270.81) TVD(7817.04)  
VS(4252.41) N/-S(-1403.04) E/-W(-4157.77)



#134 MD(12081.00) Inc(91.47) Azm(269.70) TVD(7814.80)  
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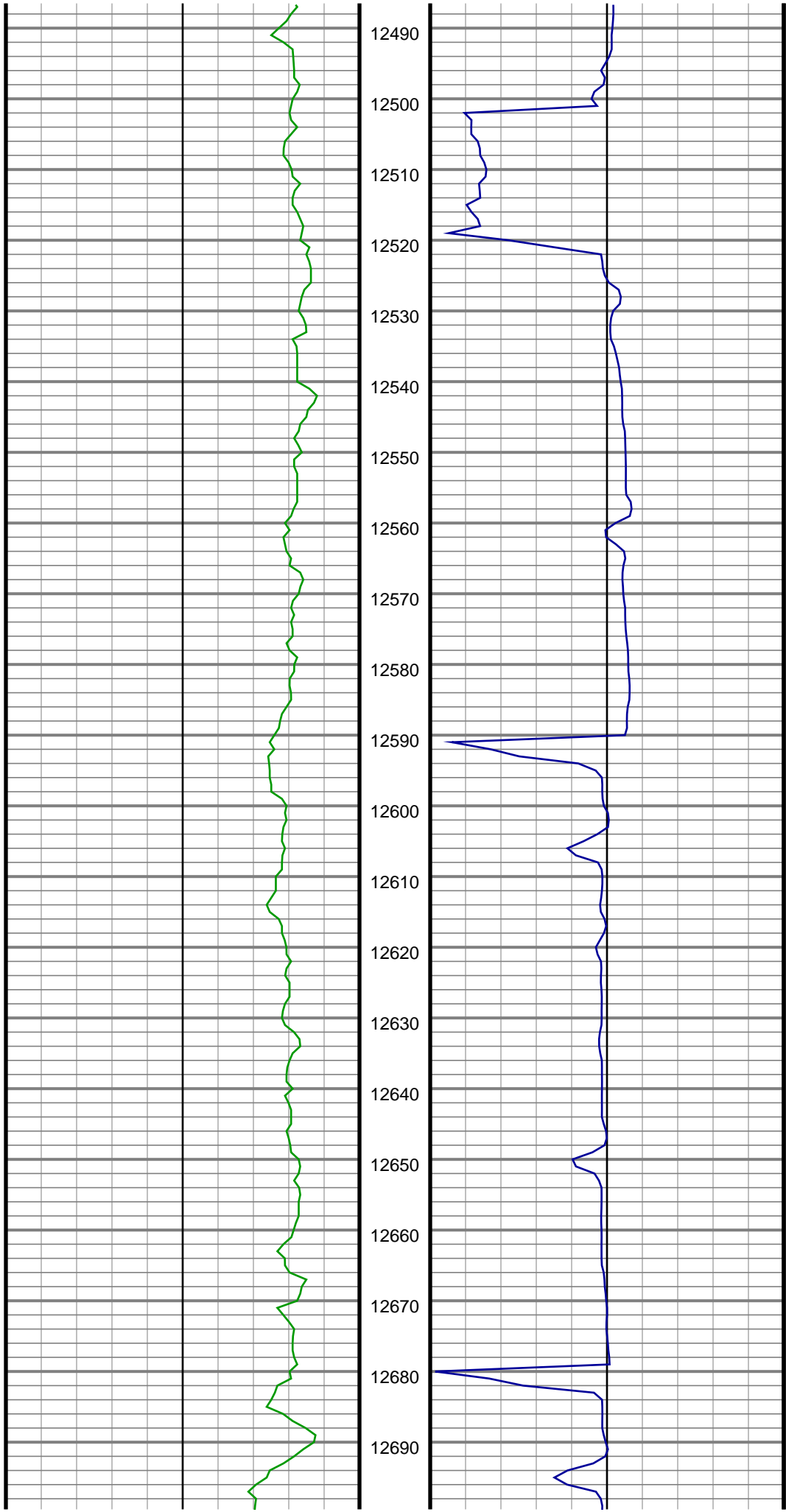
#135 MD(12170.00) Inc(90.28) Azm(269.31) TVD(7813.44)  
VS(4430.87) N/-S(-1403.41) E/-W(-4336.73)

#136 MD(12259.00) Inc(90.37) Azm(269.53) TVD(7812.94)  
VS(4519.67) N/-S(-1404.31) E/-W(-4425.72)



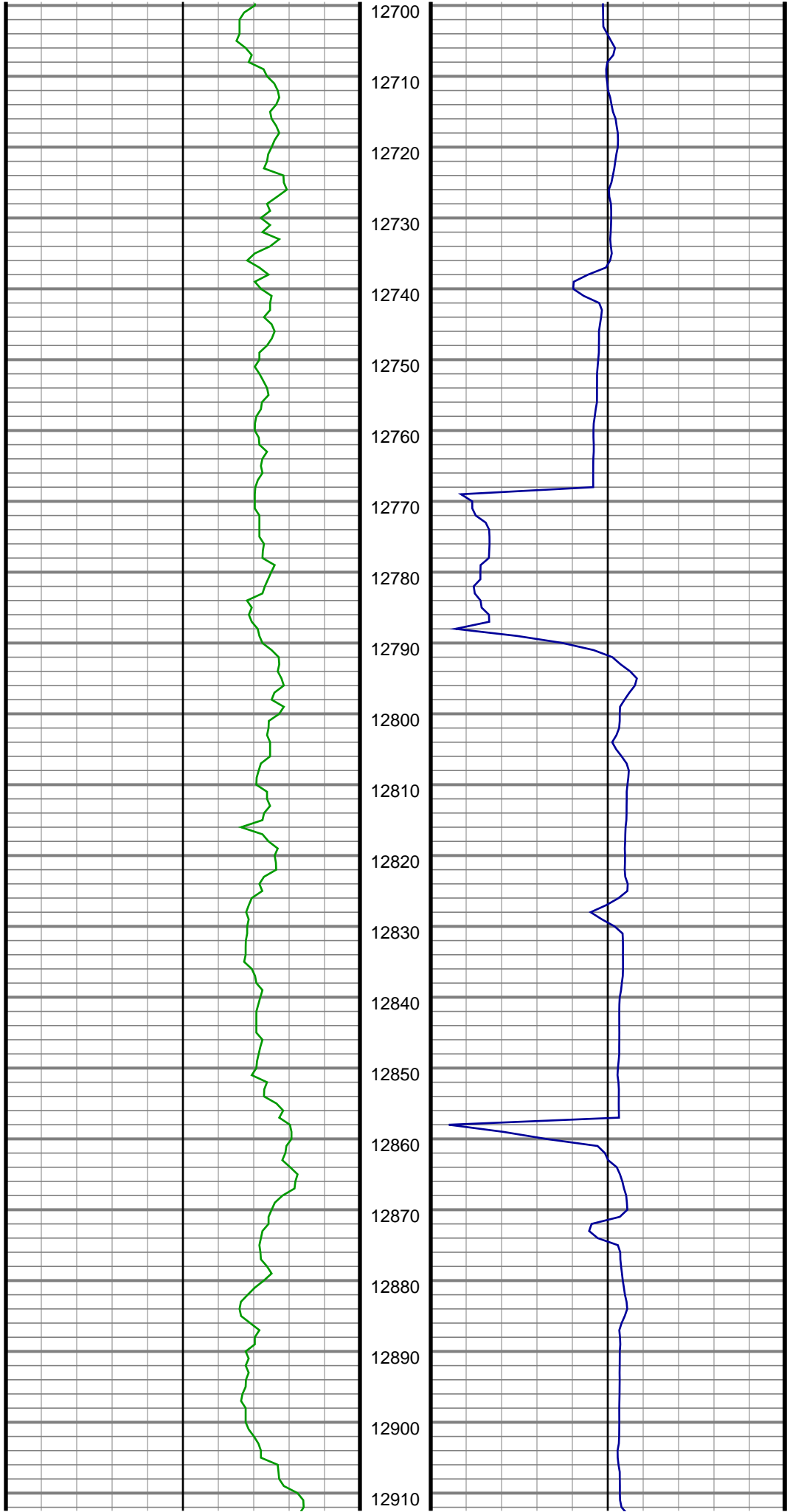
#137 MD(12349.00) Inc(90.15) Azm(269.04) TVD(7812.53)  
VS(4609.49) N/-S(-1405.43) E/-W(-4515.72)

#138 MD(12439.00) Inc(89.88) Azm(268.51) TVD(7812.51)  
VS(4699.36) N/-S(-1407.36) E/-W(-4605.69)



#139 MD(12528.00) Inc(88.95) Azm(270.06) TVD(7813.41)  
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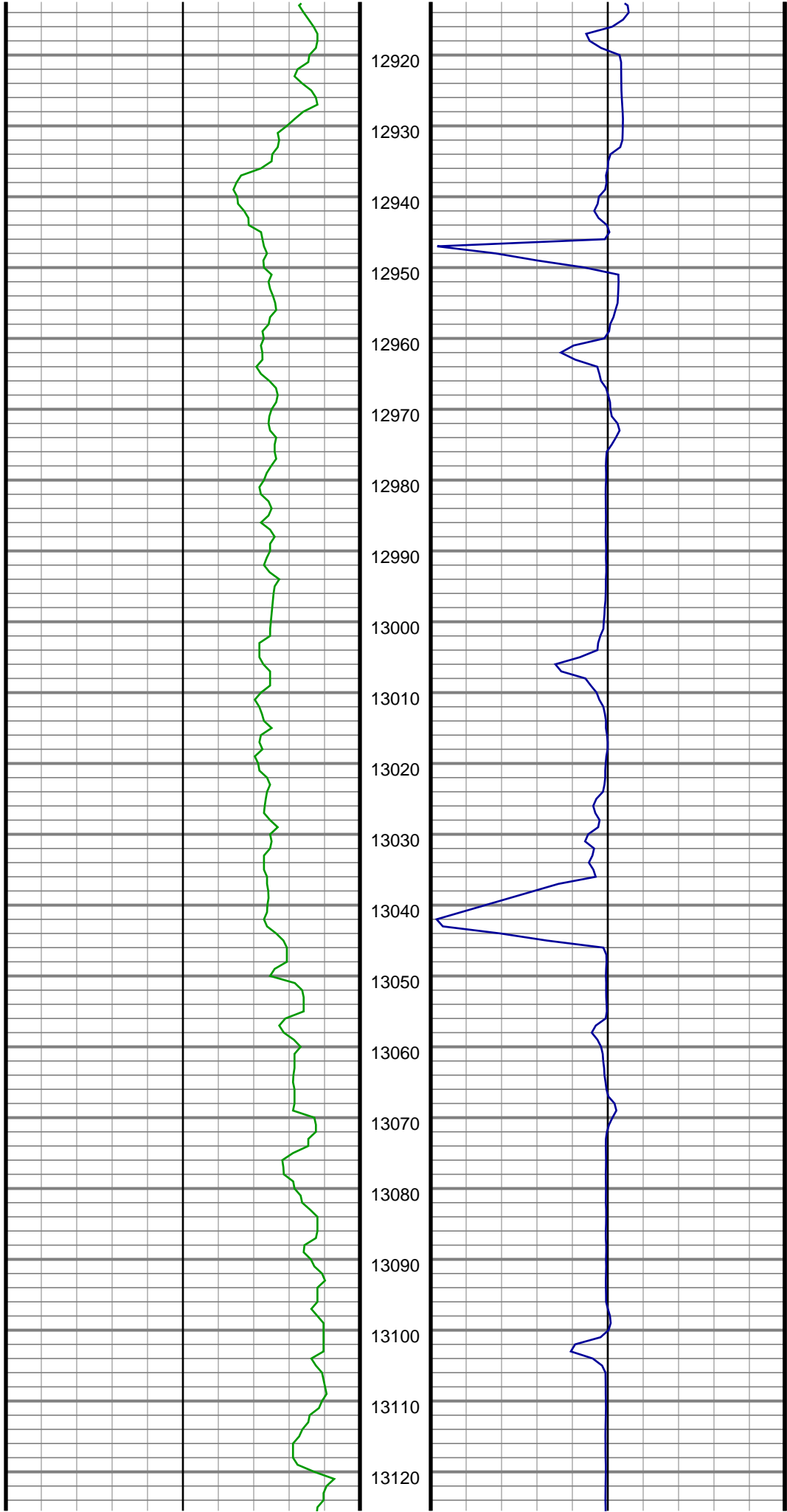
#140 MD(12618.00) Inc(89.22) Azm(269.57) TVD(7814.85)  
VS(4877.92) N/-S(-1408.76) E/-W(-4784.67)



#141 MD(12708.00) Inc(88.47) Azm(268.51) TVD(7816.67)  
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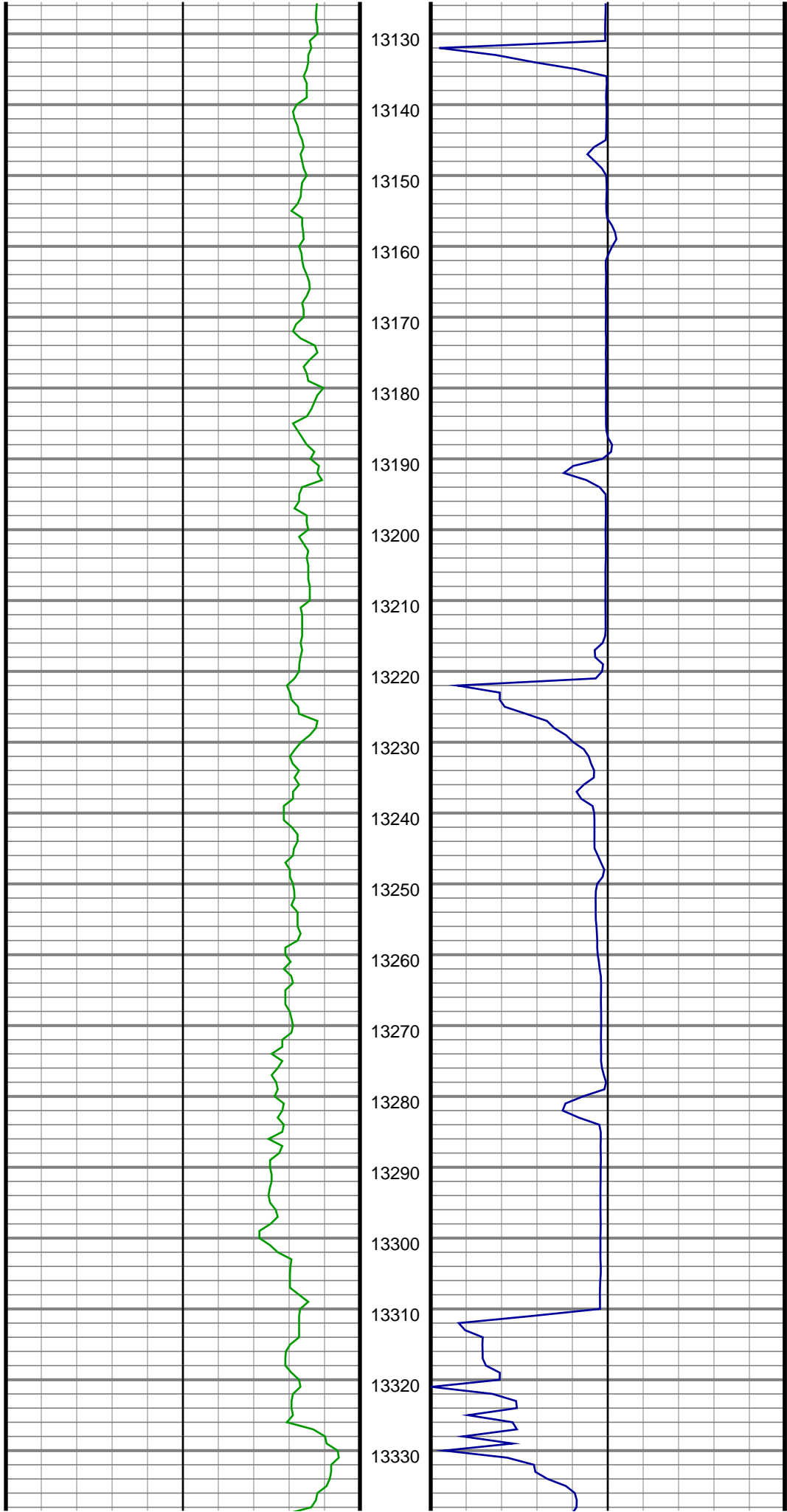
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VS(5056.54) N/-S(-1411.24) E/-W(-4963.62)

#143 MD(12886.00) Inc(90.50) Azm(270.63) TVD(7817.23)  
VS(5145.22) N/-S(-1410.57) E/-W(-5052.61)



#144 MD(12975.00) Inc(90.19) Azm(269.18) TVD(7816.70)  
VS(5233.97) N/-S(-1410.72) E/-W(-5141.61)

#145 MD(13064.00) Inc(89.93) Azm(268.73) TVD(7816.60)  
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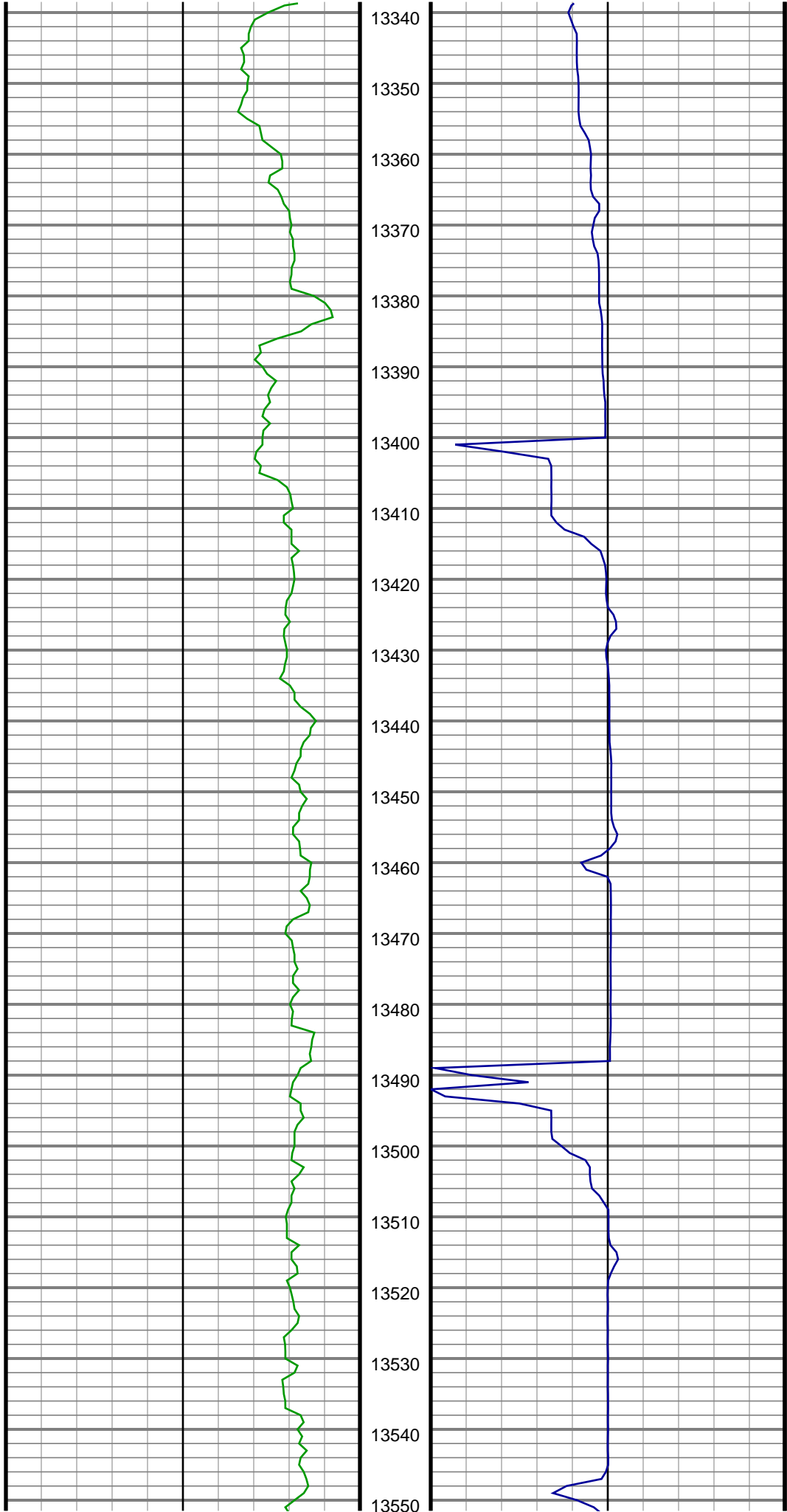


#146 MD(13154.00) Inc(89.84) Azm(268.87) TVD(7816.78)  
VS(5412.69) N/-S(-1414.23) E/-W(-5320.57)

#147 MD(13243.00) Inc(89.13) Azm(267.59) TVD(7817.58)  
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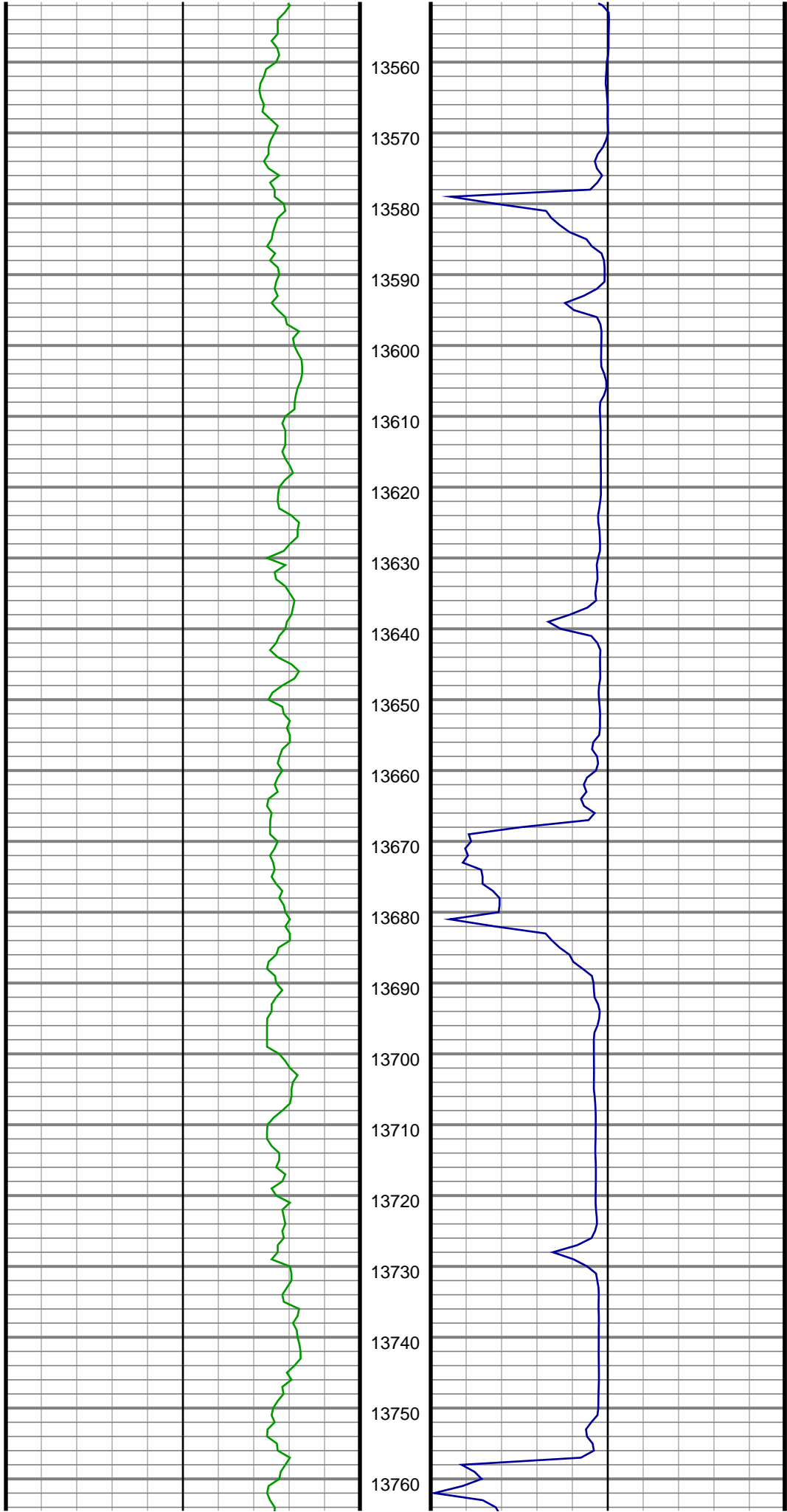
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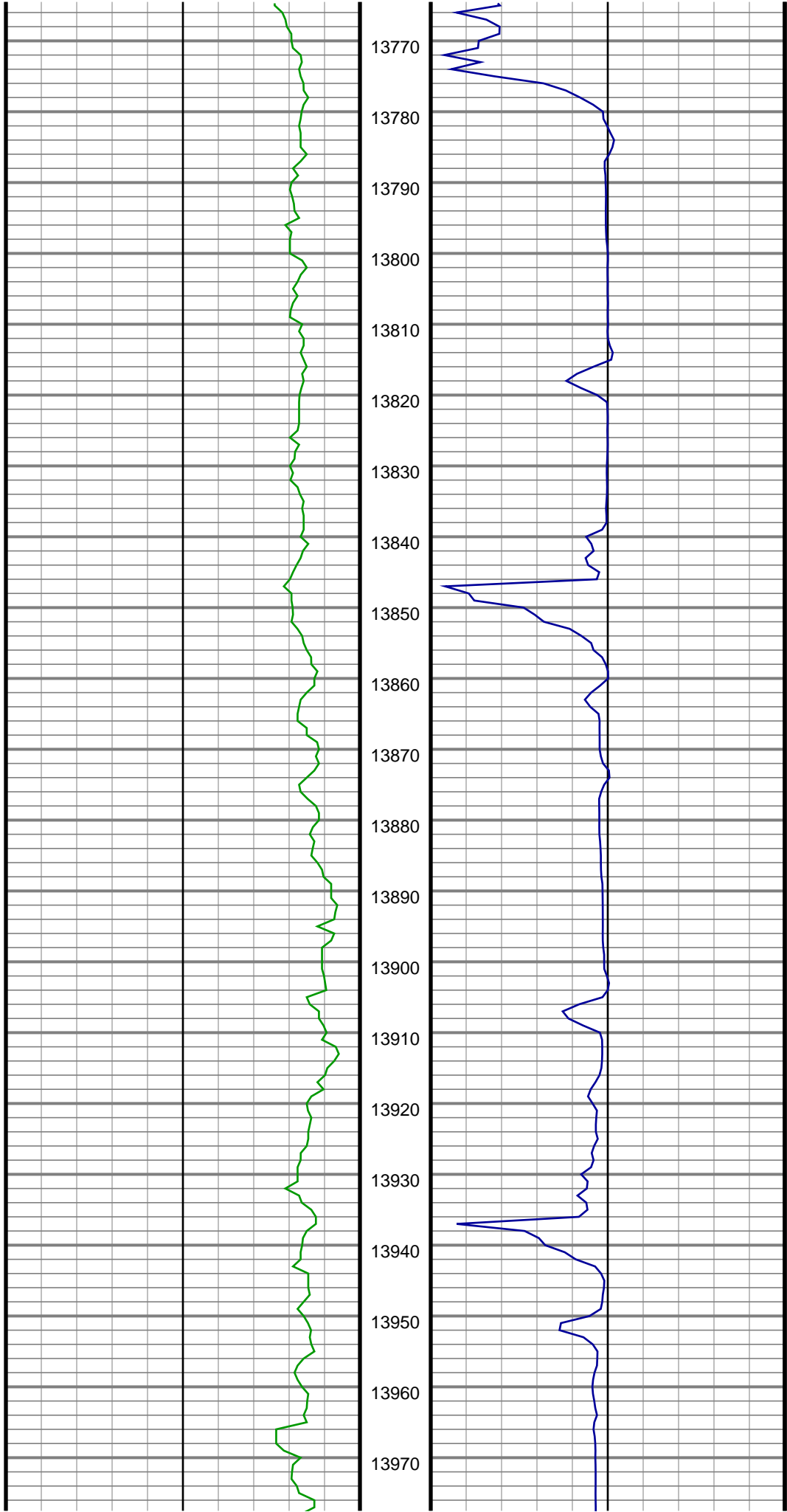
#149 MD(13422.00) Inc(91.87) Azm(268.34) TVD(7814.42)  
VS(5680.32) N/-S(-1421.72) E/-W(-5588.41)

#150 MD(13512.00) Inc(91.65) Azm(268.38) TVD(7811.65)  
VS(5770.18) N/-S(-1424.29) E/-W(-5678.33)



#151 MD(13601.00) Inc(91.60) Azm(268.07) TVD(7809.13)  
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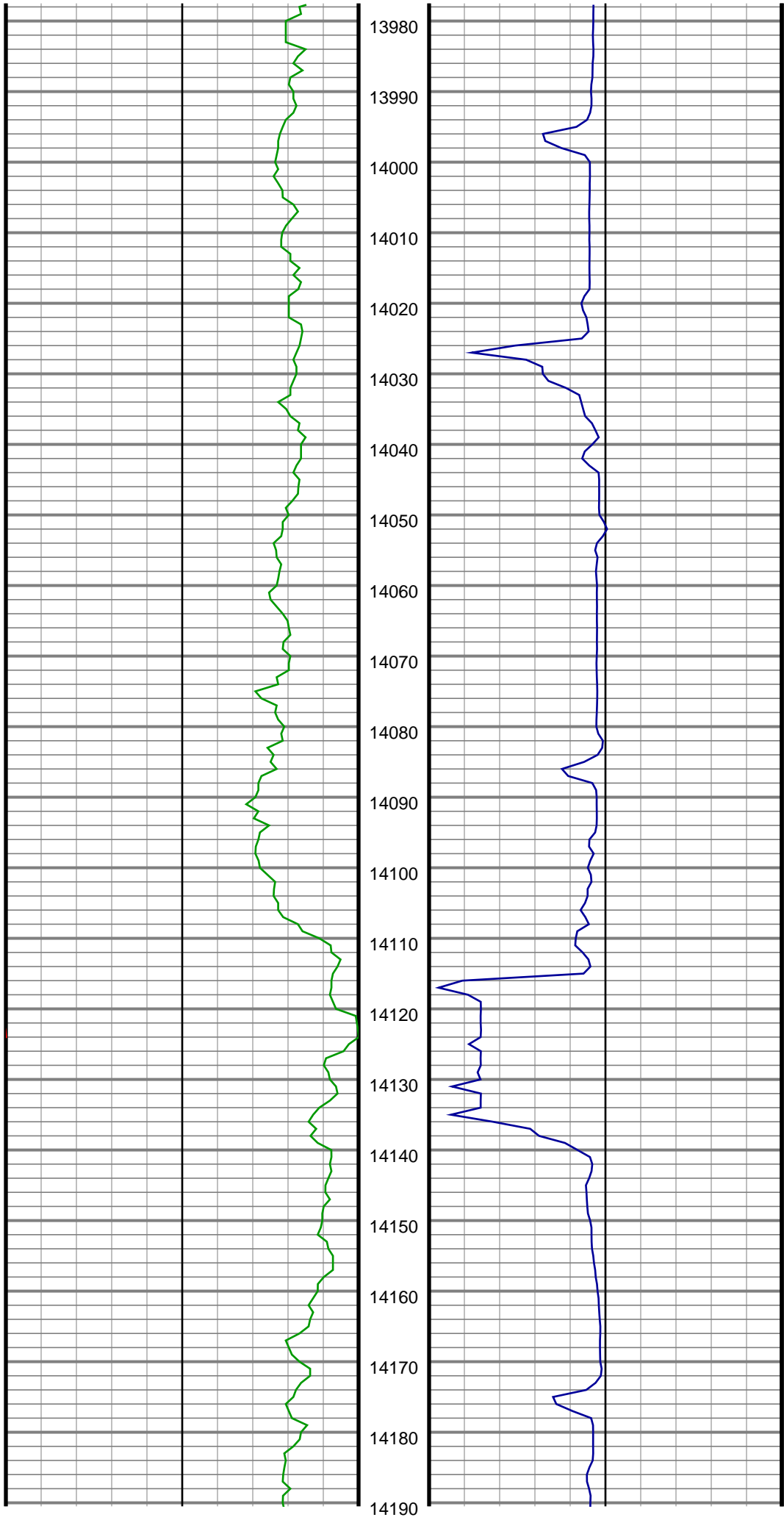
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VS(5947.93) N/-S(-1429.63) E/-W(-5856.19)



#153 MD(13780.00) Inc(91.47) Azm(270.10) TVD(7805.12)  
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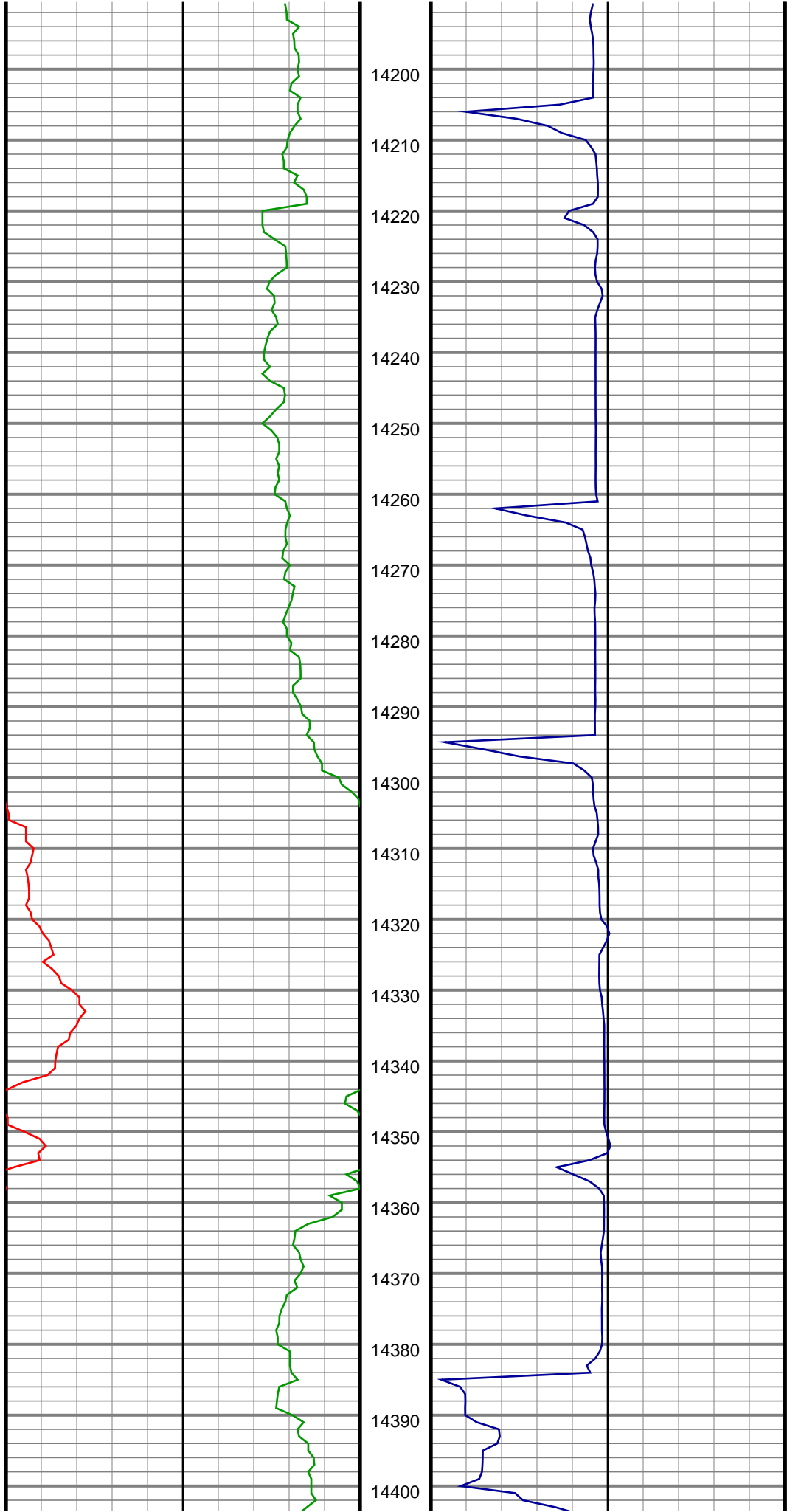
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VS(6127.40) N/-S(-1430.42) E/-W(-6036.13)

#155 MD(13959.00) Inc(91.60) Azm(269.79) TVD(7800.23)  
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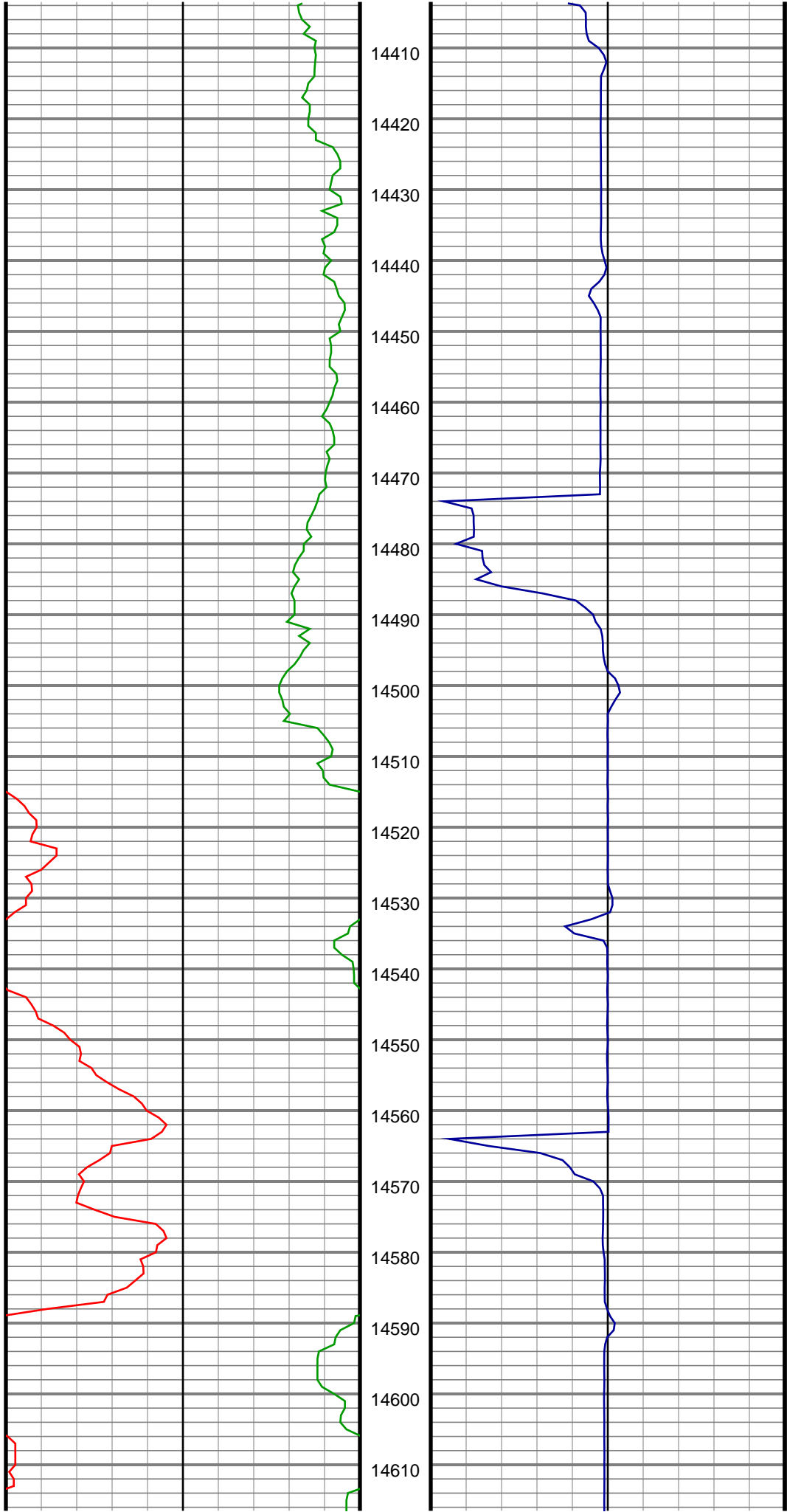
#156 MD(14049.00) Inc(91.34) Azm(268.51) TVD(7797.92)  
VS(6305.91) N/-S(-1431.77) E/-W(-6215.05)

#157 MD(14138.00) Inc(90.90) Azm(270.19) TVD(7796.18)  
VS(6394.71) N/-S(-1432.78) E/-W(-6304.02)



#158 MD(14228.00) Inc(91.30) Azm(270.01) TVD(7794.45)  
VS(6484.42) N/-S(-1432.63) E/-W(-6394.01)

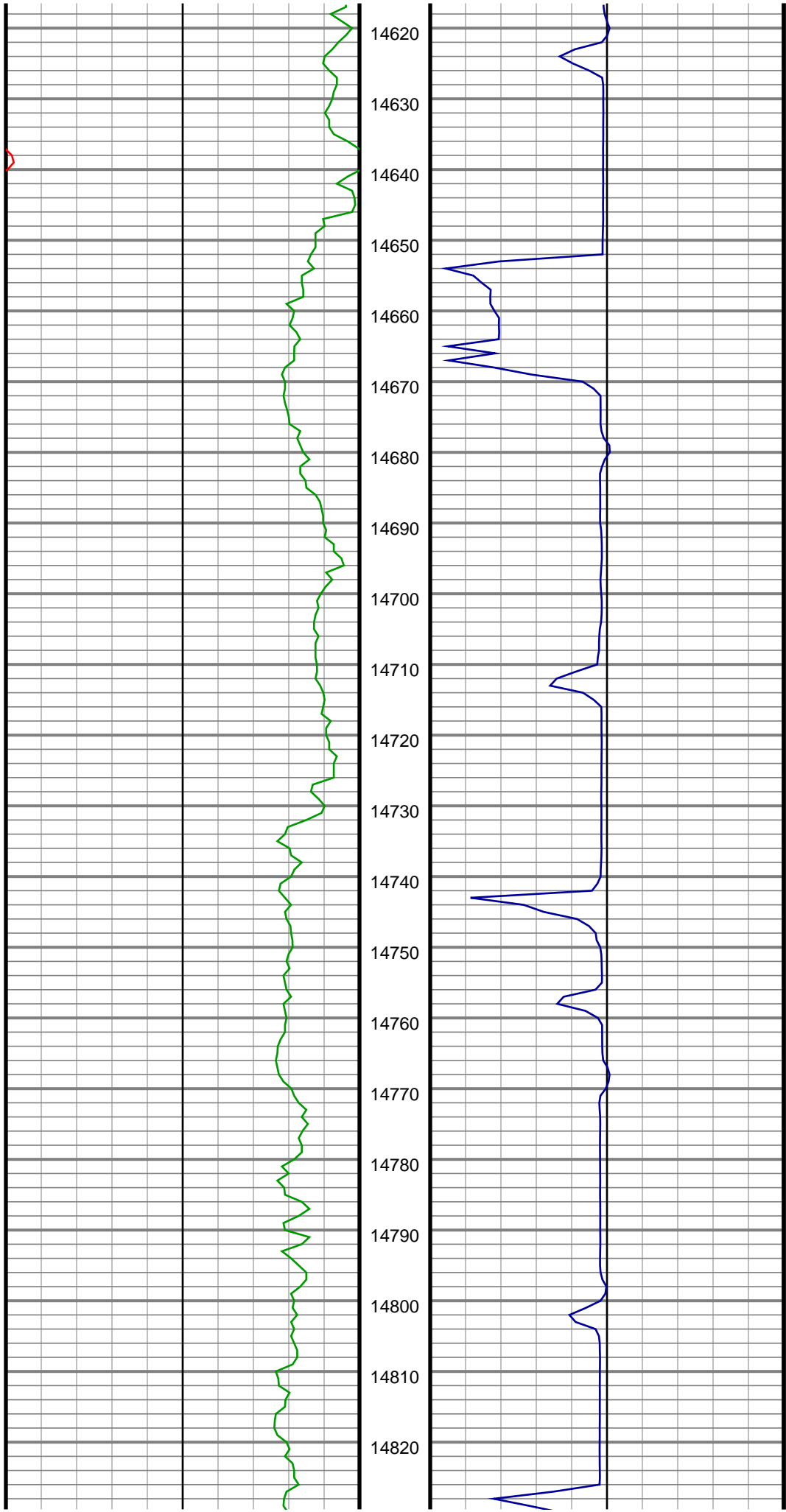
#159 MD(14318.00) Inc(91.65) Azm(269.48) TVD(7792.13)  
VS(6574.16) N/-S(-1433.03) E/-W(-6483.98)



#160 MD(14408.00) Inc(91.07) Azm(271.20) TVD(7790.00)  
VS(6663.82) N/-S(-1432.49) E/-W(-6573.95)

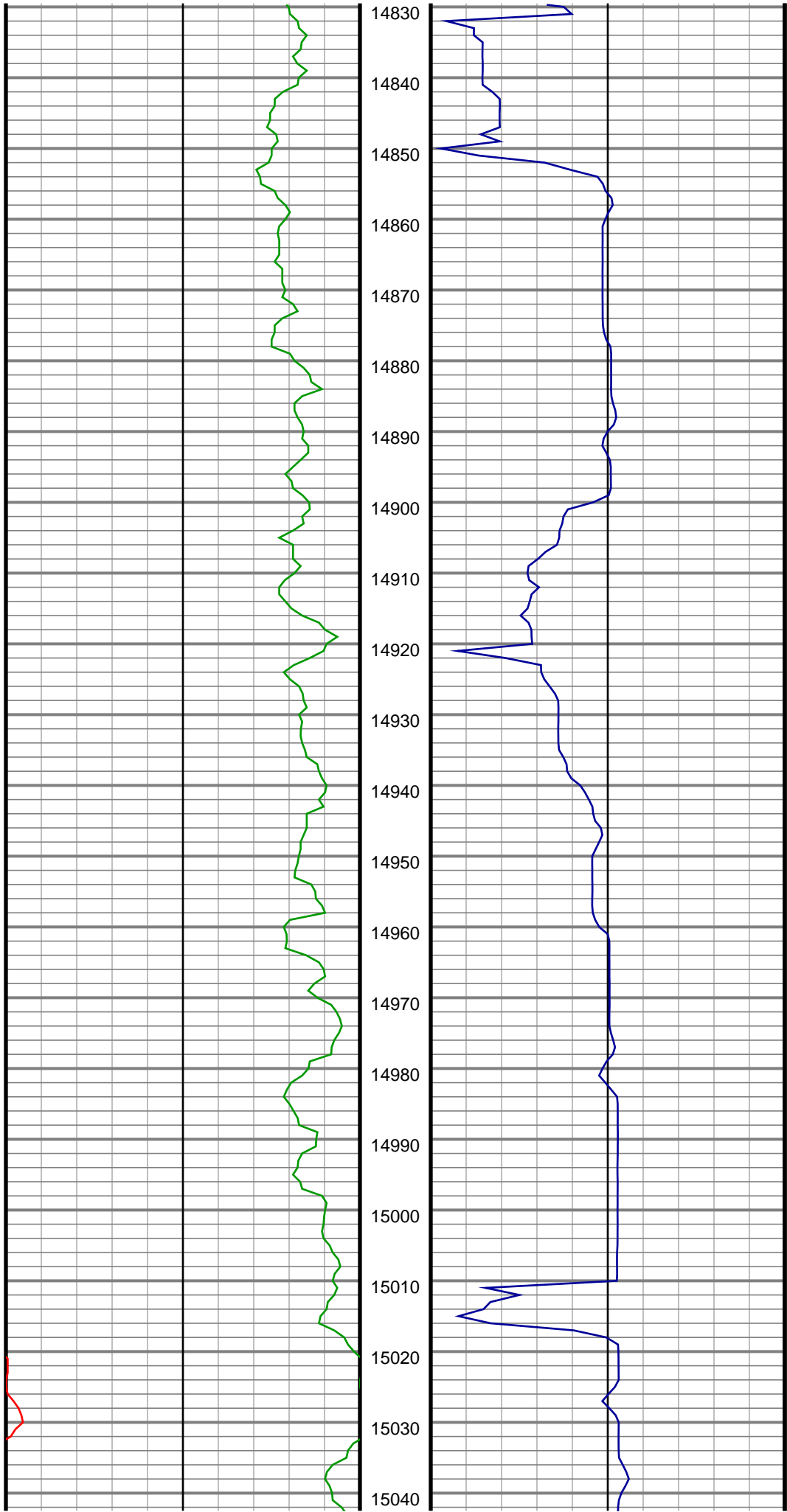
#161 MD(14497.00) Inc(90.46) Azm(272.08) TVD(7788.81)  
VS(6752.33) N/-S(-1429.95) E/-W(-6662.90)

#162 MD(14588.00) Inc(90.85) Azm(270.98) TVD(7787.77)  
VS(6842.84) N/-S(-1427.52) E/-W(-6753.86)



#163 MD(14677.00) Inc(89.17) Azm(271.73) TVD(7787.75)  
VS(6931.39) N/-S(-1425.41) E/-W(-6842.83)

#164 MD(14767.00) Inc(88.51) Azm(270.72) TVD(7789.58)  
VS(7020.95) N/-S(-1423.49) E/-W(-6932.79)

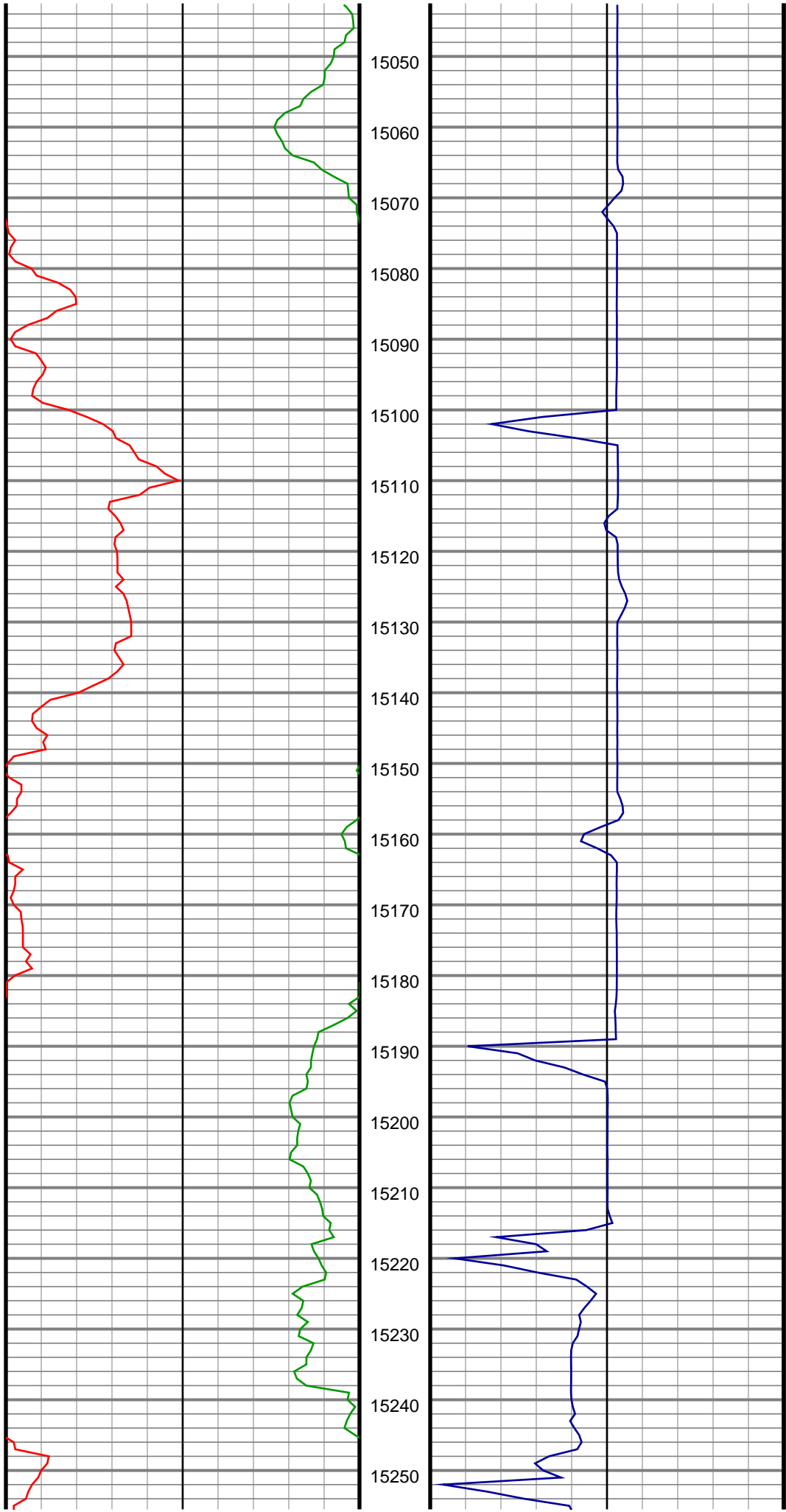


#165 MD(14856.00) Inc(89.79) Azm(272.30) TVD(7790.90)  
VS(7109.46) N/-S(-1421.14) E/-W(-7021.75)

#166 MD(14946.00) Inc(90.01) Azm(271.60) TVD(7791.05)  
VS(7198.92) N/-S(-1418.08) E/-W(-7111.69)

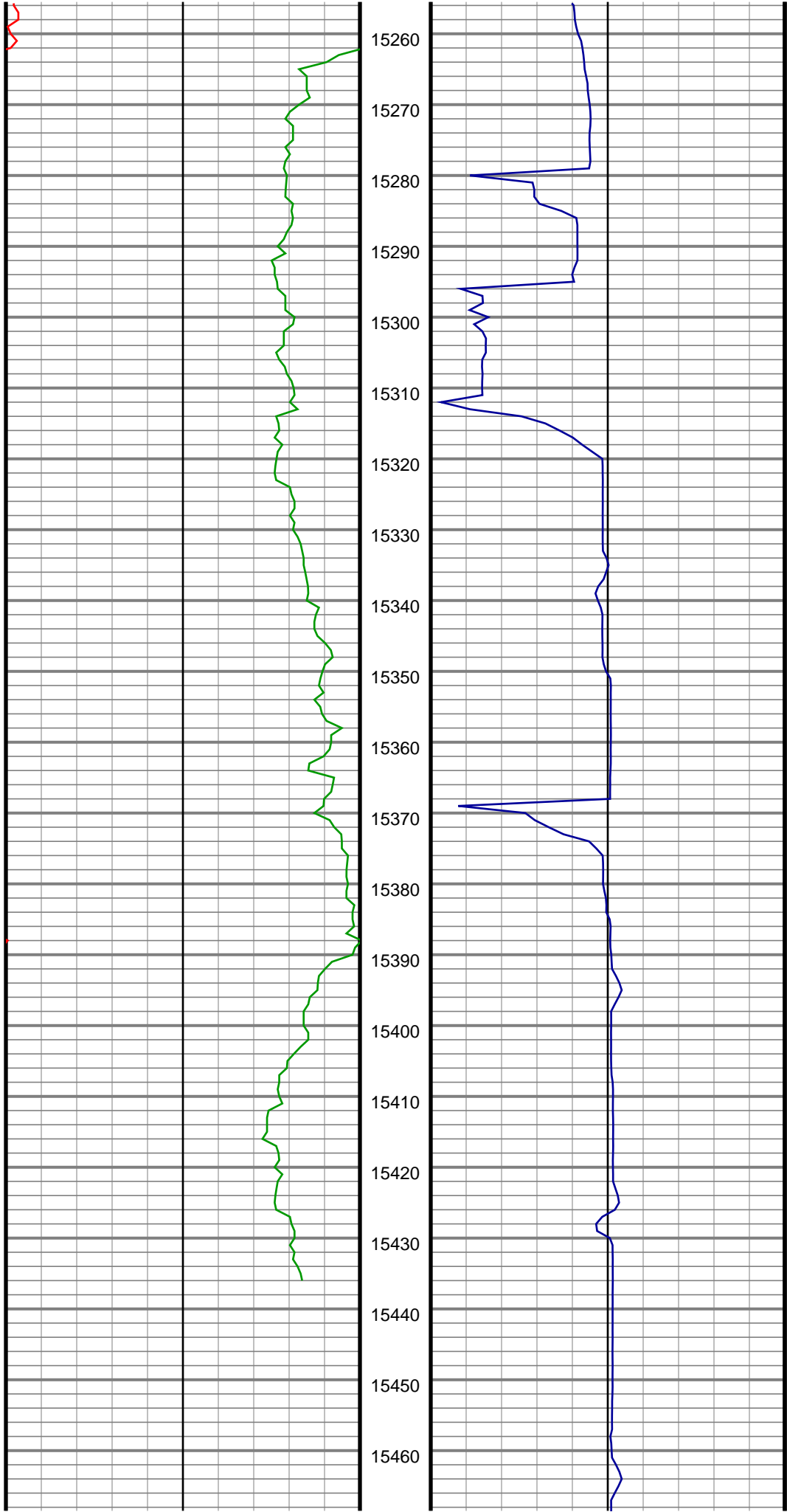
#167 MD(15035.00) Inc(89.70) Azm(270.54) TVD(7791.28)  
VS(7287.52) N/-S(-1416.42) E/-W(-7200.68)





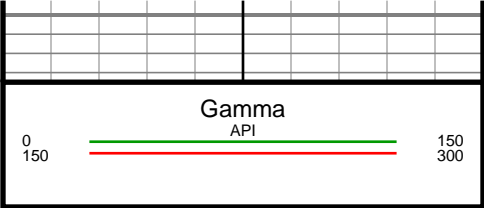
#168 MD(15125.00) Inc(89.53) Azm(270.89) TVD(7791.88)  
VS(7377.16) N/-S(-1415.30) E/-W(-7290.67)

#169 MD(15215.00) Inc(89.13) Azm(270.41) TVD(7792.94)  
VS(7466.81) N/-S(-1414.27) E/-W(-7380.65)

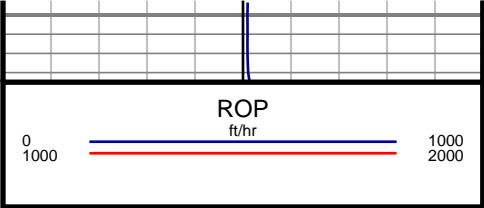


#170 MD(15304.00) Inc(90.37) Azm(271.25) TVD(7793.32)  
VS(7555.44) N/-S(-1412.98) E/-W(-7469.64)

#171 MD(15393.00) Inc(91.03) Azm(270.98) TVD(7792.24)  
VS(7644.03) N/-S(-1411.25) E/-W(-7558.62)



15470



#172 MD(15477.00) Inc(91.03) Azm(270.98) TVD(7790.73)  
VS(7727.65) N-S(-1409.82) E-W(-7642.59)