



Cathedral Energy Services
 6622 Willowbrook Park Drive
 Houston, Tx 77066
 281-440-1010 (Office)
 281-440-1025 (Fax)

Cosslett 1F-22H-B168
Scale 5":100' - MD
1/13/2019 5:22 AM

Oper. Company: Crestone Peak Resources

Well: Cosslett 1F-22H-B168

Field: DJ Basin

Rig: Ensign 140

Well ID: 05-123-47675-00

Job Number: 195000

Notes: Gamma Ray Log
 Section Plan: 176.02°
 Datum: North American Datum 1983
 Magnetic North: 8.34°
 Grid Convergence: 0.33°
 Gamma Averaging: 7% Smoothing

State: Colorado

County: Weld

Country: United States

Location: S22-T1N-R68W

Start Date: 01/05/2019 13:00:00

End Date: 01/13/2019 05:00:00

Latitude: 40.041390
Longitude: -104.987904

Elev GL: 5,174.00
Elev DF: 5,197.00
Elev KB: 5,197.00

Notes: Log & Survey Depths Relative to Kelly Bushing (KB) Depth

Operator 1: Bob Stahlecker

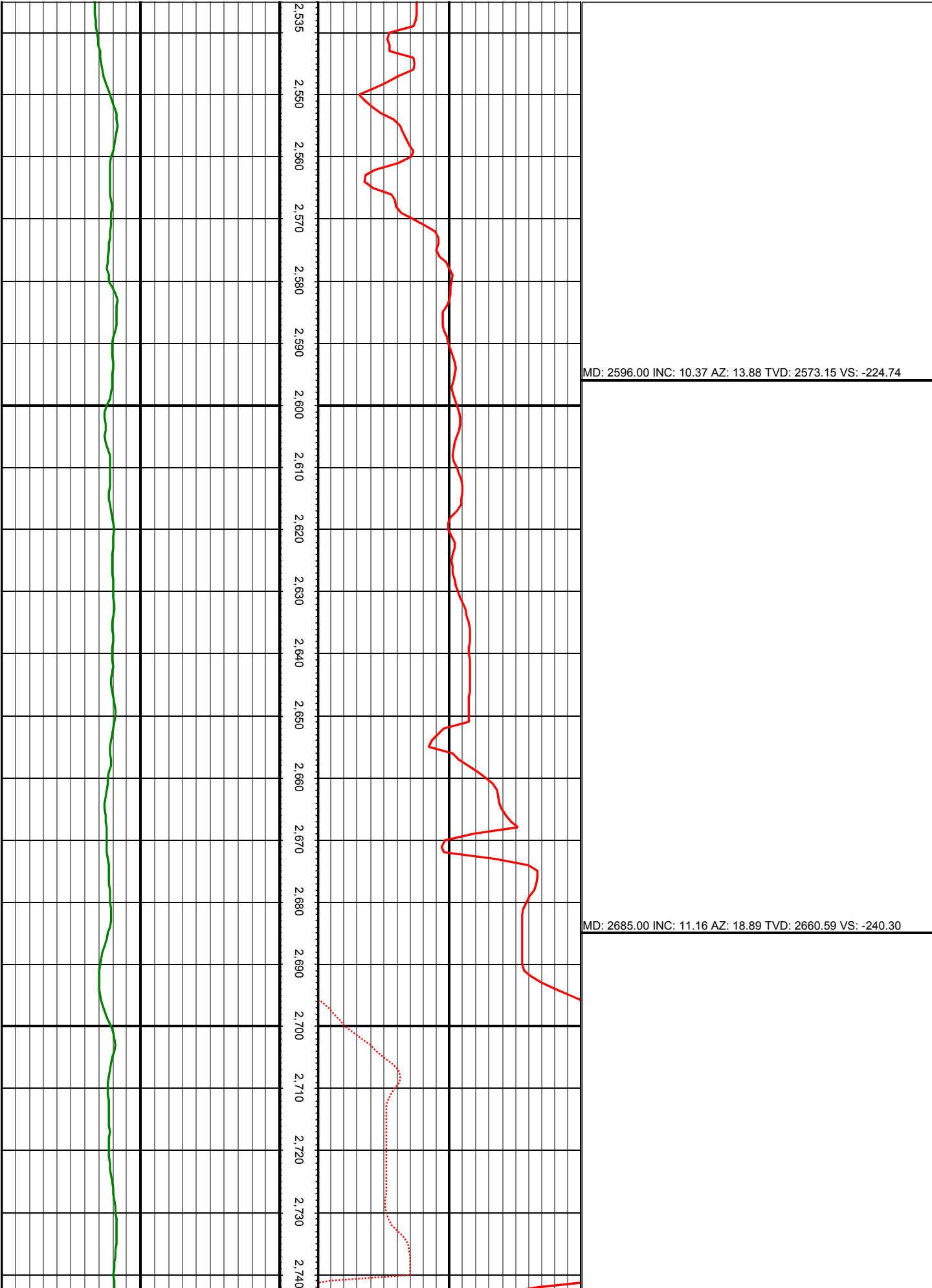
Operator 2: Jerry Shannahan

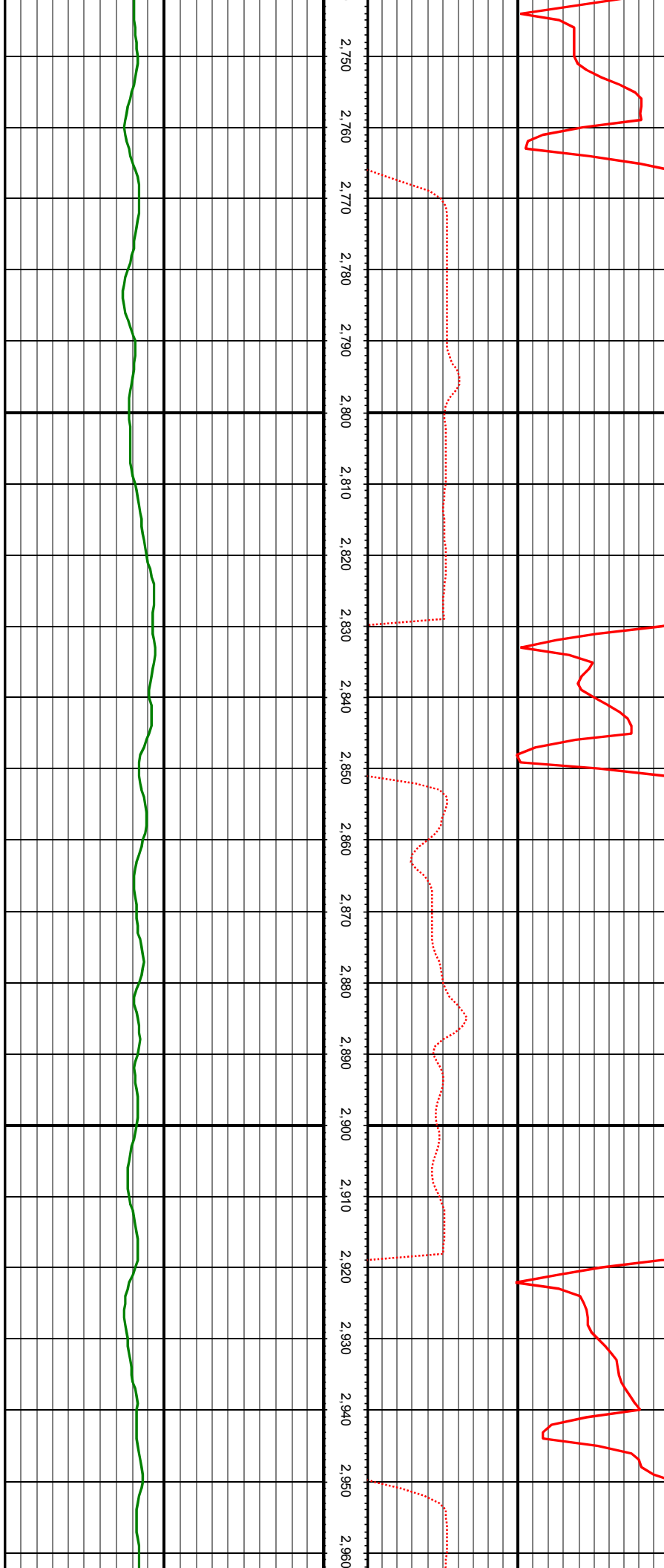
Notes: Maximun Temperature: 257.00°F

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	DIA-00018	BTDM-1638			
Bit Size	8.75	8.50			
Cal Factor	5.36	4.79			
Survey Offset	57.00	80.00			
Gamma Offset	51.34	67.13			
Resistivity Offset	0.00	0.00			
Start Depth	2540.00	10880.00			
StartDate	1/5/2019	1/9/2019			
StartTime	13:00	10:00			
EndDepth	10880.00	17796.00			
EndDate	1/8/2019	1/13/2019			
EndTime	07:00	05:00			
Mud Type	OIL BASED	OIL BASED			
Mud Weight	10.15 PPG	10.50 PPG			
Funnel Viscosity	47.00 SEC/QT	45.00 SEC/QT			
Plastic Viscosity	15.00 CP	24.00 CP			
Yield Point	5.00 LBS/100FT2	5.00 LBS/100FT2			
Gel Strength	4.00/12.00/15.00 LBS/100FT2	4.00/14.00/18.00 LBS/100FT2			
Solids Content	8.10 % BY VOL	8.30 % BY VOL			
Sand Content	0.00 % BY VOL	0.00 % BY VOL			
Mud Alkalinity	1.55 PPG	2.07 PPG			
Filtrate Alkalinity	0.00 % BY VOL	0.00% BY VOL			
Chlorides	30,000.00 MG/L	35,500.00 MG/L			
Temperature	213.00 °F	257.00 °F			

Hole Data			Casing Data		
Size	From	To	Size	From	To
12.25	514.00	2540.00	13.375	0.00	514.00
8.75	2540.00	10880.00	9.875	0.00	2527.00
8.5	10880.00	17796.00			

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.



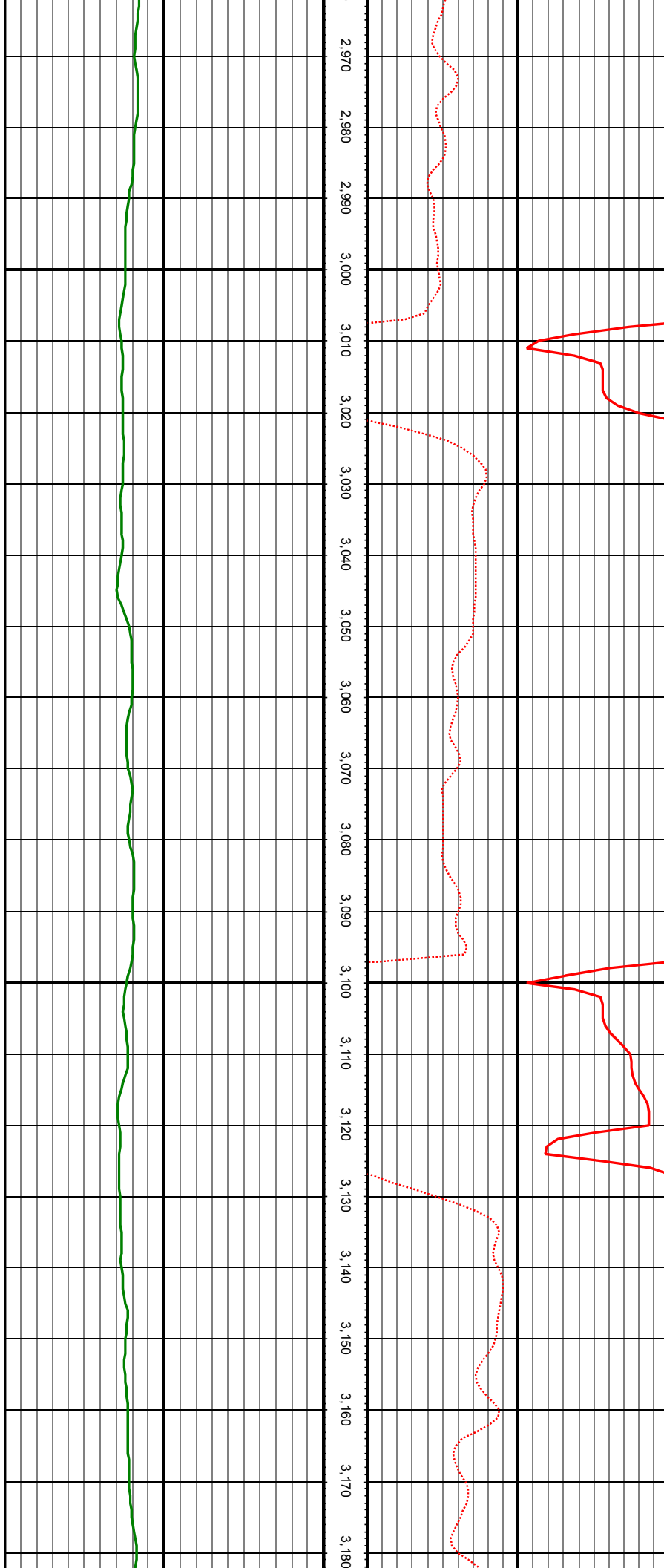


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MD: 2775.00 INC: 11.91 AZ: 24.16 TVD: 2748.77 VS: -256.52

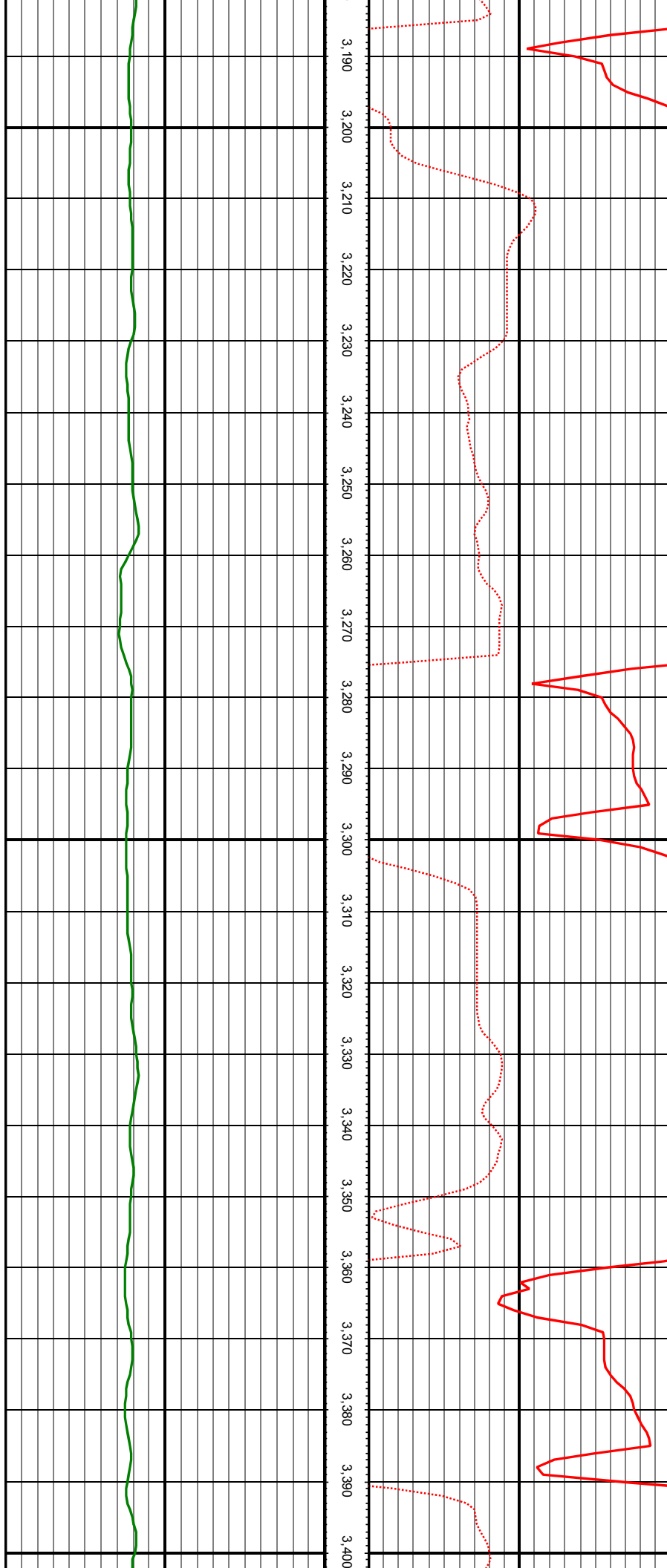
MD: 2864.00 INC: 10.90 AZ: 26.80 TVD: 2836.01 VS: -271.85

MD: 2953.00 INC: 10.72 AZ: 37.61 TVD: 2923.44 VS: -285.27



MD: 3042.00 INC: 9.76 AZ: 34.62 TVD: 3011.03 VS: -297.35

MD: 3131.00 INC: 10.85 AZ: 46.40 TVD: 3098.60 VS: -308.59

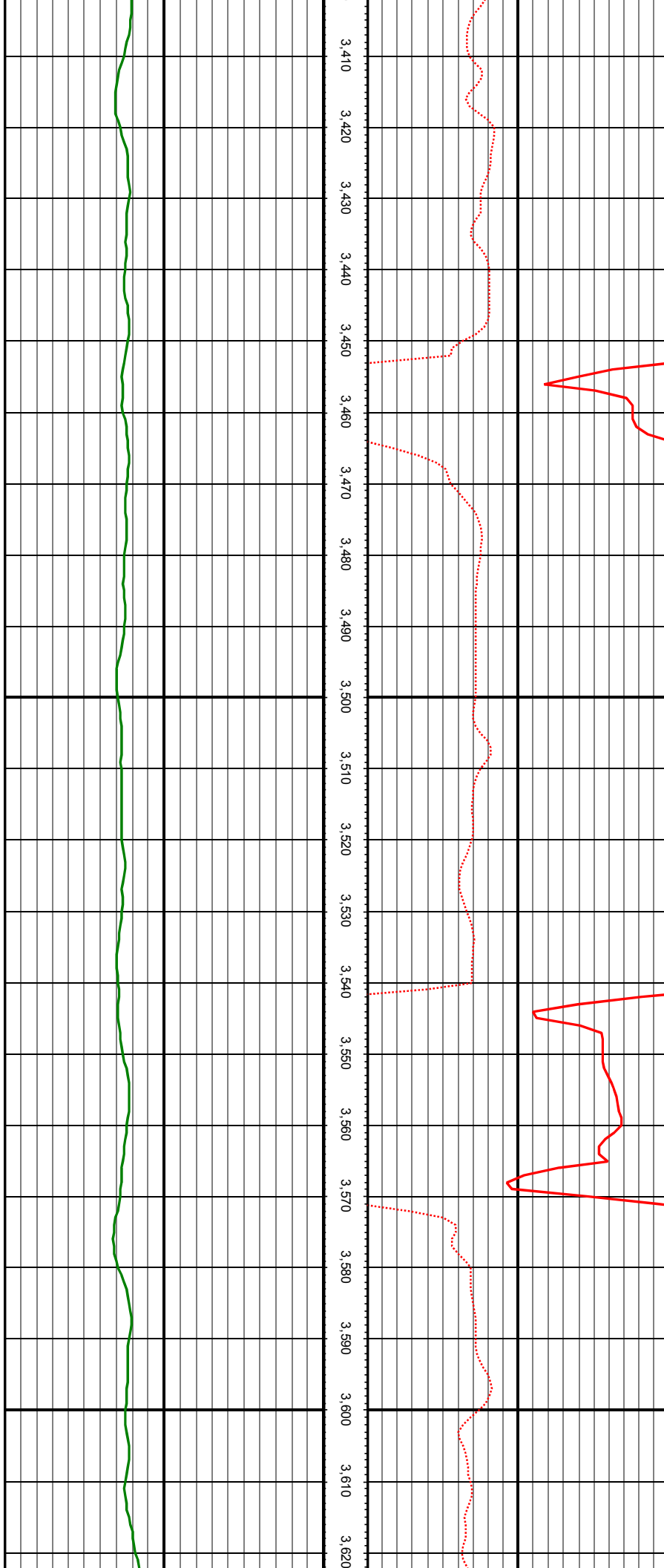


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MD: 3220.00 INC: 9.45 AZ: 43.50 TVD: 3186.20 VS: -318.87

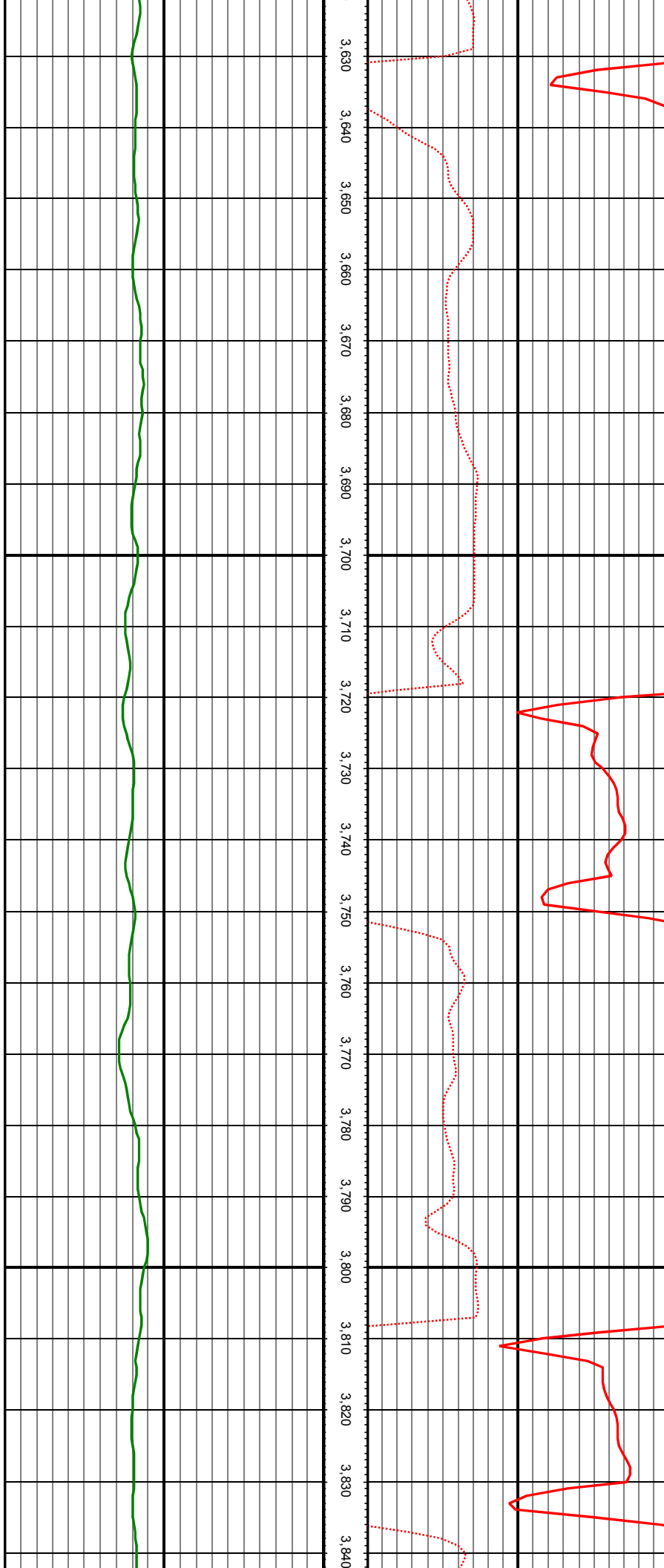
MD: 3309.00 INC: 9.71 AZ: 46.13 TVD: 3273.96 VS: -328.62

MD: 3398.00 INC: 11.07 AZ: 44.46 TVD: 3361.50 VS: -339.11



MD: 3487.00 INC: 9.45 AZ: 41.91 TVD: 3449.08 VS: -349.86

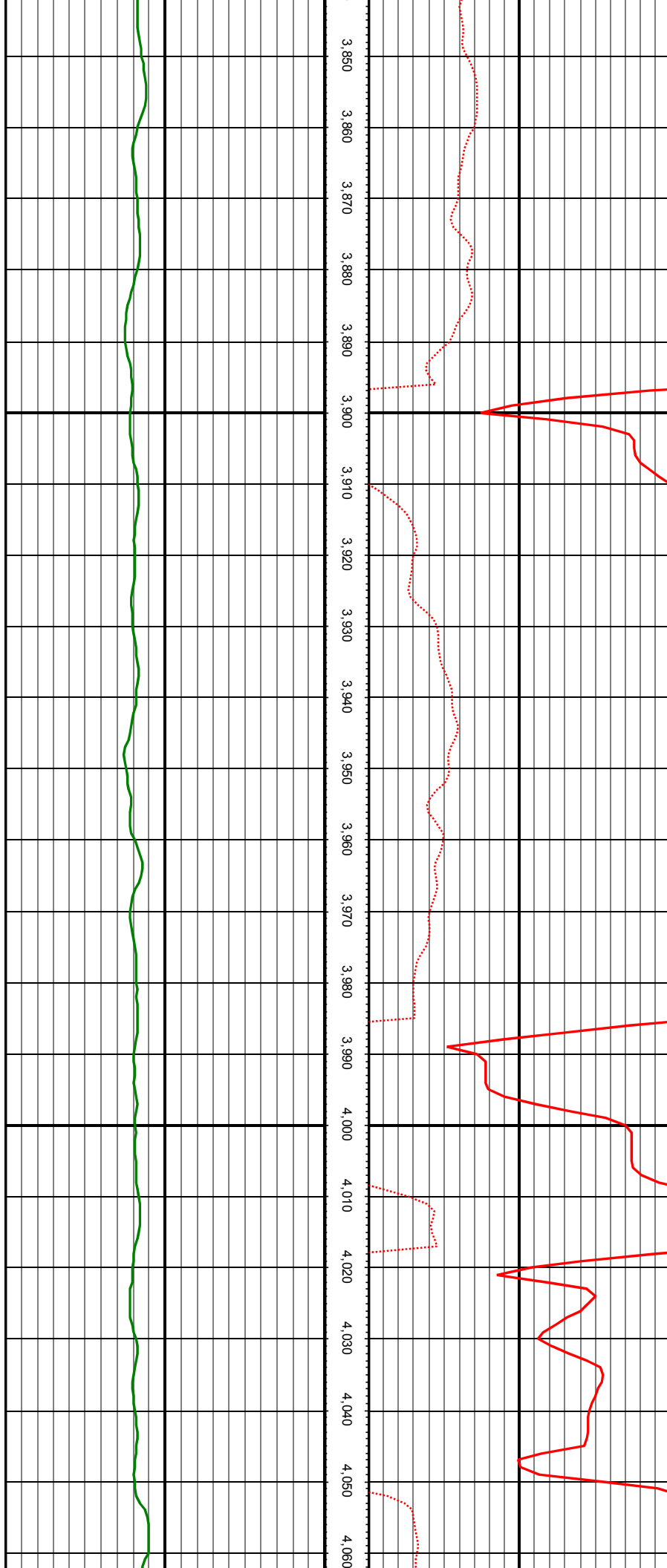
MD: 3576.00 INC: 10.99 AZ: 38.66 TVD: 3536.66 VS: -361.19



MD: 3665.00 INC: 8.83 AZ: 37.87 TVD: 3624.33 VS: -372.52

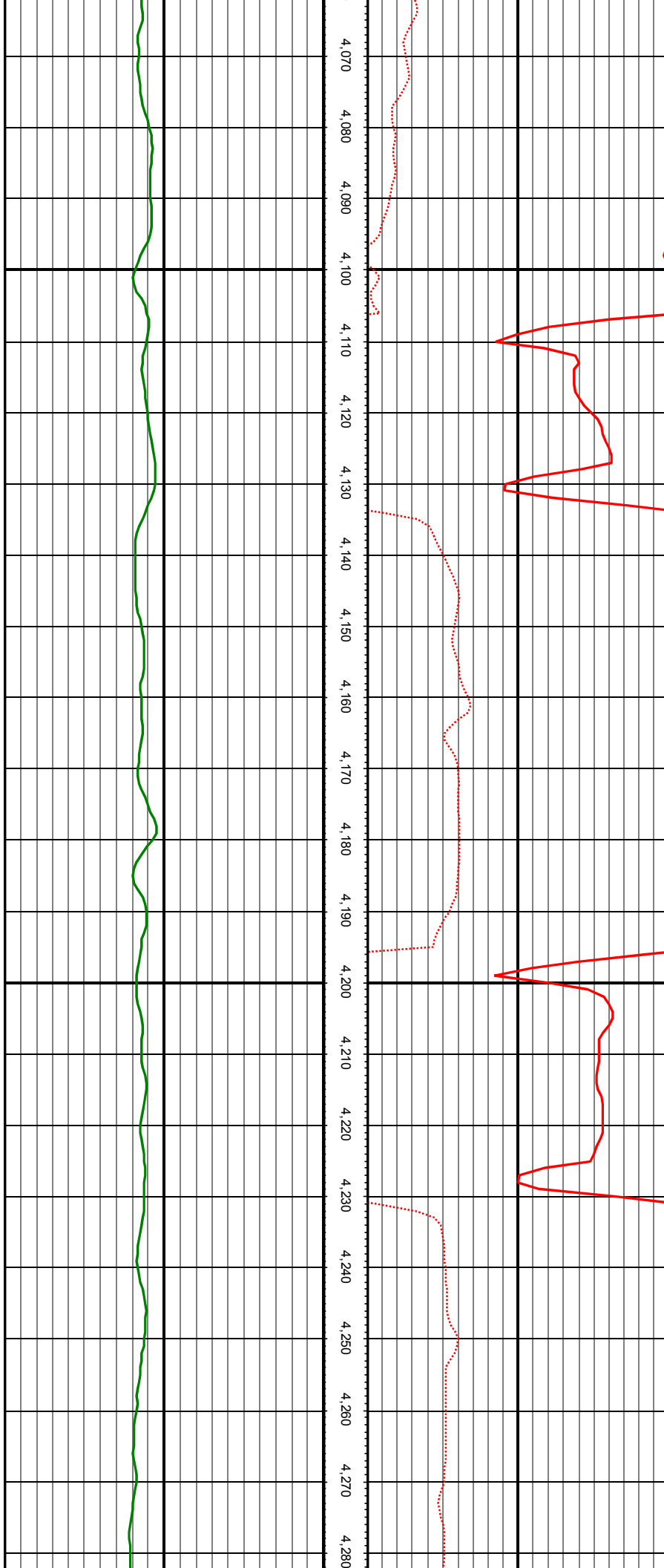
MD: 3754.00 INC: 10.37 AZ: 37.26 TVD: 3712.08 VS: -383.63

MD: 3843.00 INC: 11.56 AZ: 39.01 TVD: 3799.46 VS: -396.18



MD: 3963.00 INC: 8.70 AZ: 32.25 TVD: 3917.58 VS: -412.30

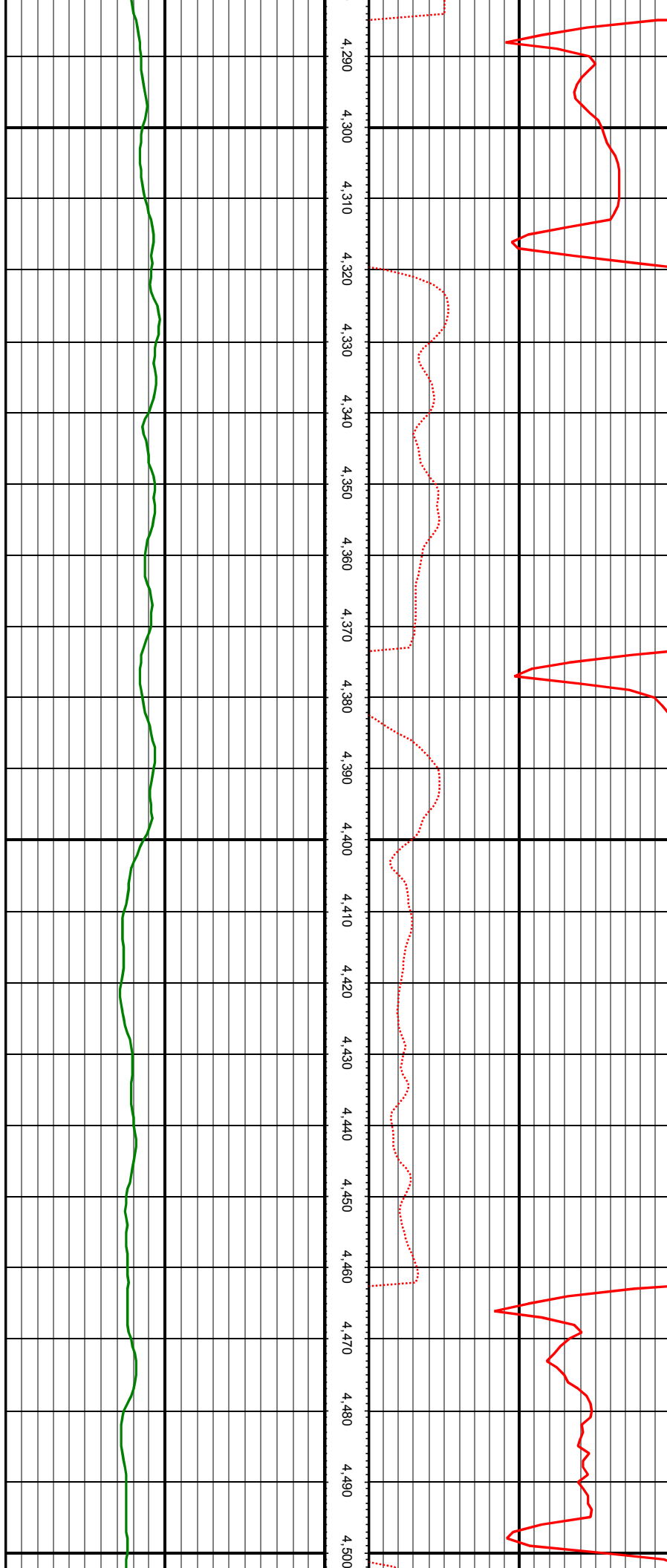
MD: 4052.00 INC: 9.93 AZ: 34.36 TVD: 4005.40 VS: -423.75



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MD: 4141.00 INC: 10.37 AZ: 32.42 TVD: 4093.01 VS: -436.21

MD: 4230.00 INC: 10.33 AZ: 32.95 TVD: 4180.56 VS: -449.04

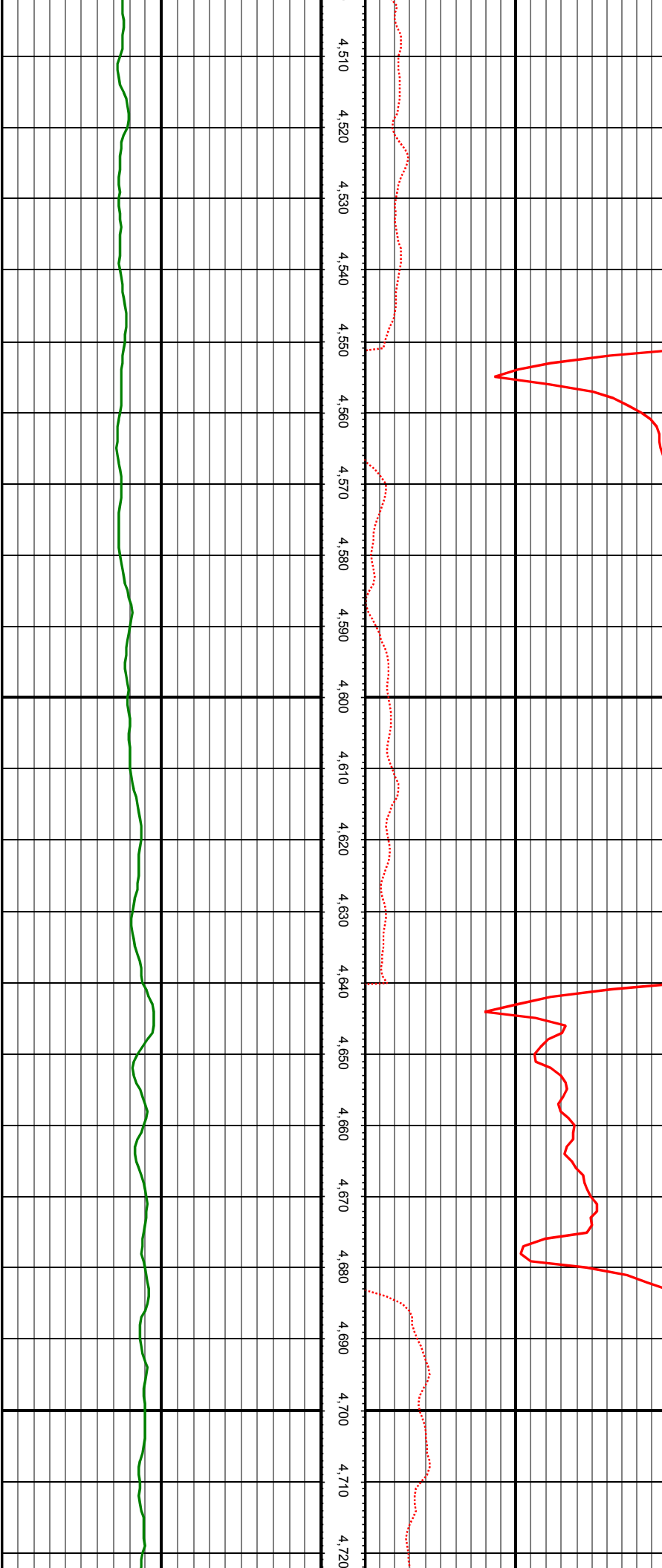


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MD: 4319.00 INC: 11.12 AZ: 31.72 TVD: 4268.01 VS: -462.39

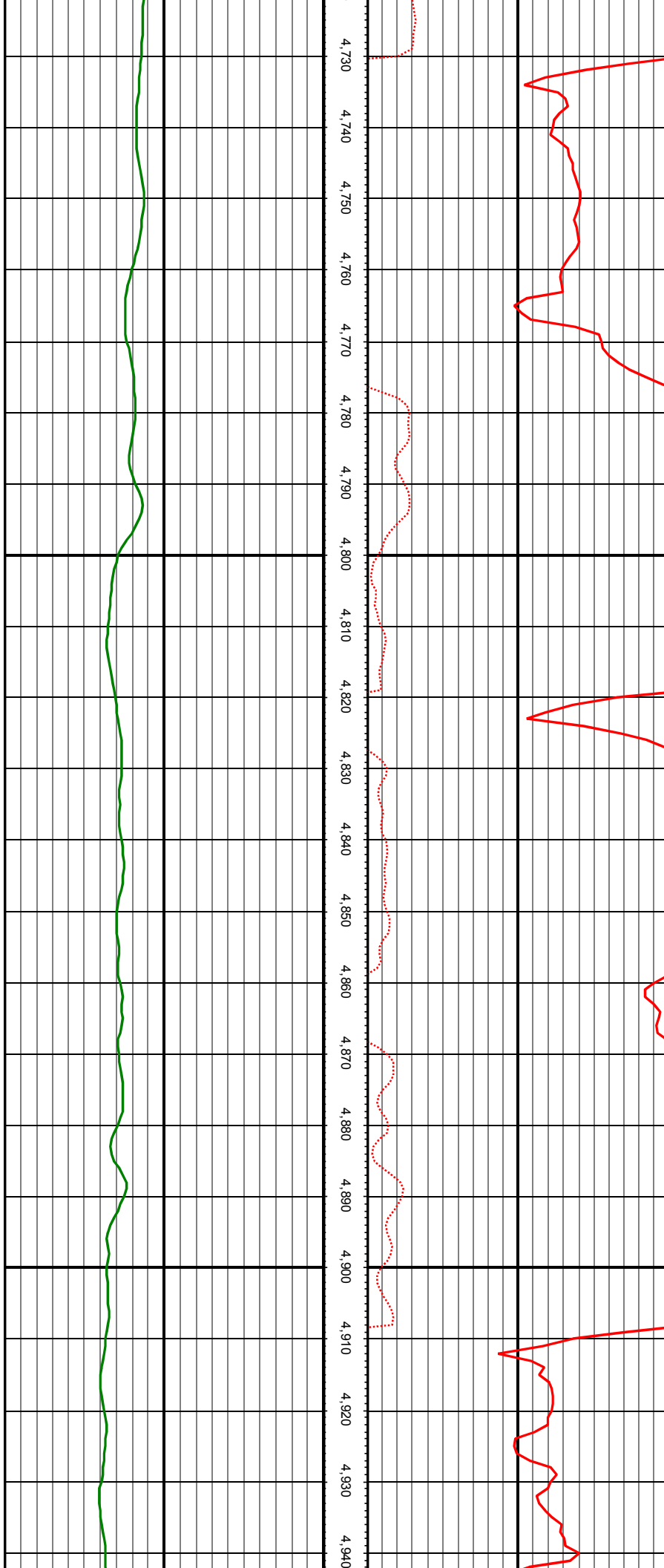
MD: 4408.00 INC: 8.79 AZ: 29.35 TVD: 4355.66 VS: -475.04

MD: 4497.00 INC: 10.68 AZ: 33.57 TVD: 4443.37 VS: -487.26



MD: 4587.00 INC: 9.32 AZ: 29.08 TVD: 4532.01 VS: -499.98

MD: 4676.00 INC: 9.19 AZ: 35.85 TVD: 4619.85 VS: -511.48

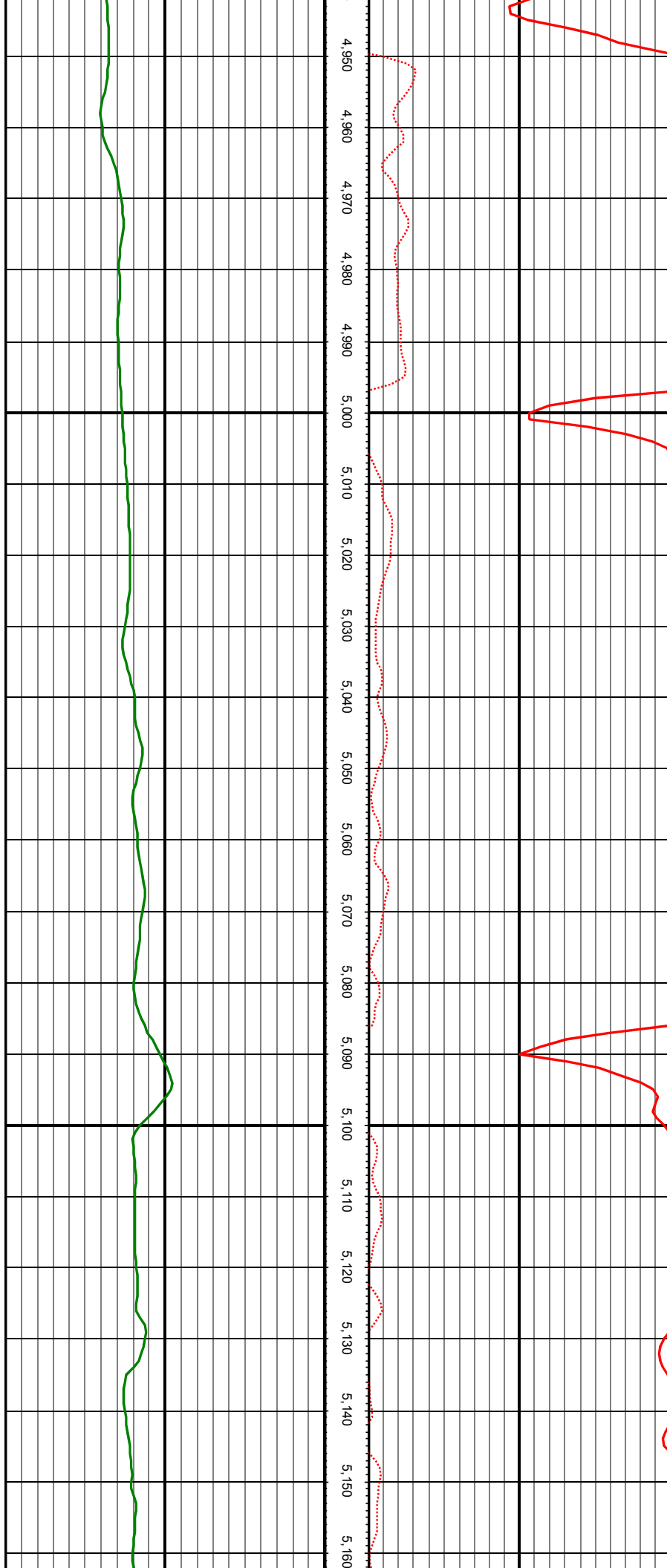


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MD: 4765.00 INC: 10.90 AZ: 35.32 TVD: 4707.48 VS: -523.45

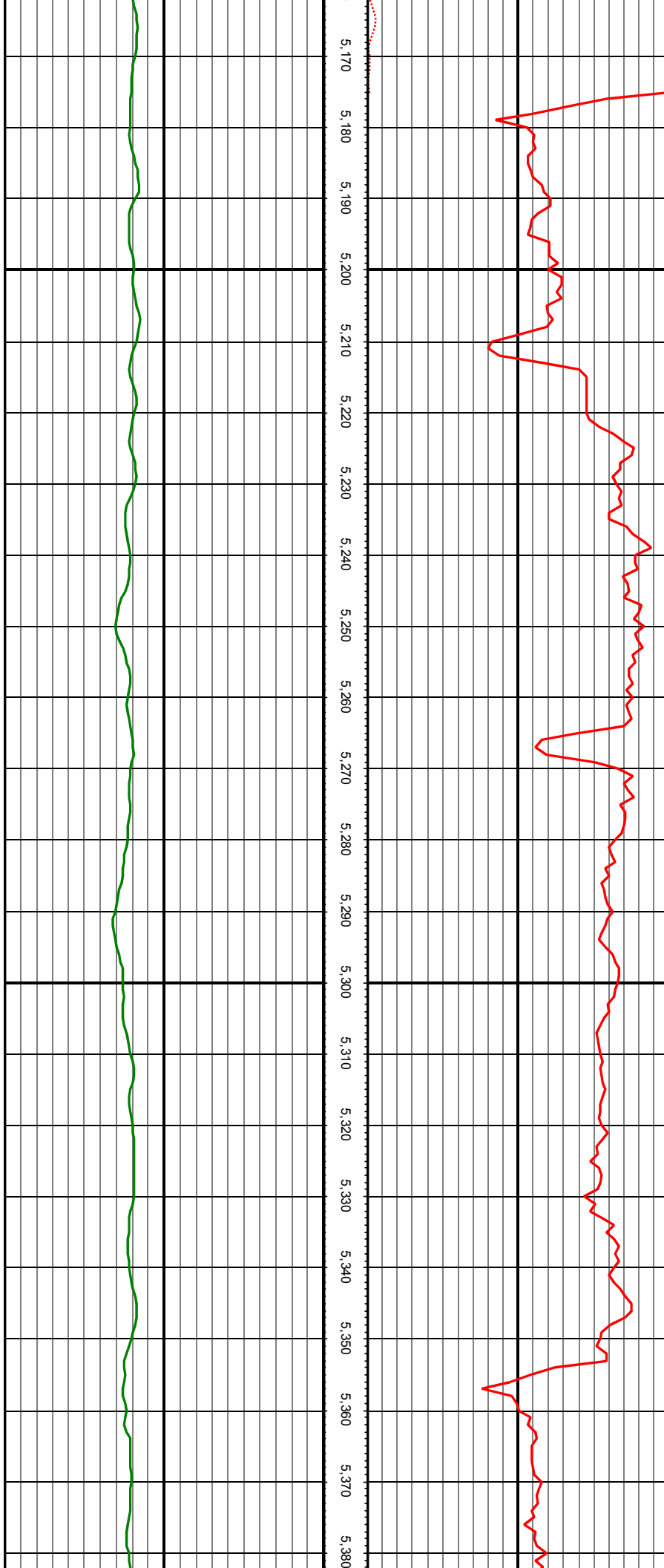
MD: 4854.00 INC: 8.97 AZ: 31.72 TVD: 4795.15 VS: -535.60

MD: 4943.00 INC: 11.65 AZ: 37.08 TVD: 4882.70 VS: -548.01



MD: 5032.00 INC: 11.25 AZ: 35.59 TVD: 4969.93 VS: -561.48

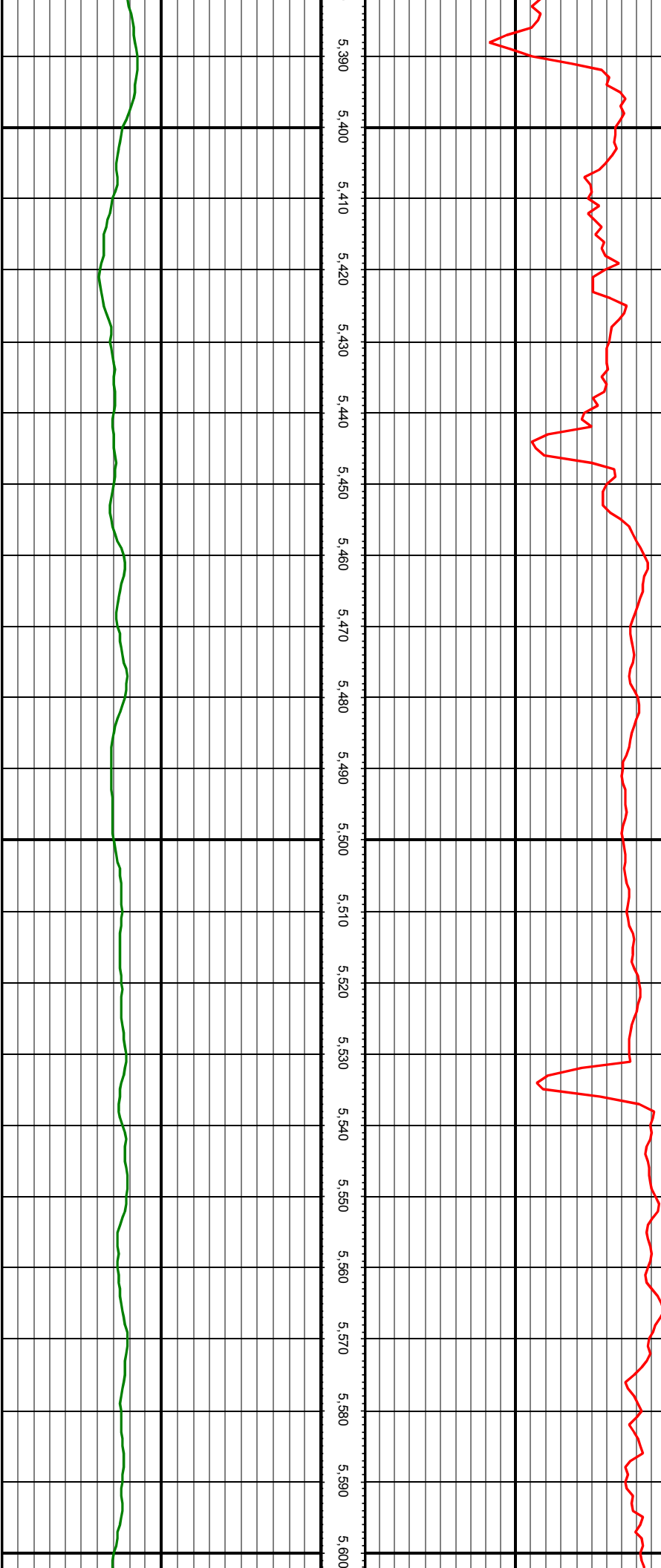
MD: 5121.00 INC: 9.45 AZ: 33.21 TVD: 5057.48 VS: -573.99



MD: 5210.00 INC: 11.07 AZ: 35.41 TVD: 5145.05 VS: -586.42

MD: 5299.00 INC: 9.36 AZ: 33.92 TVD: 5232.64 VS: -598.73

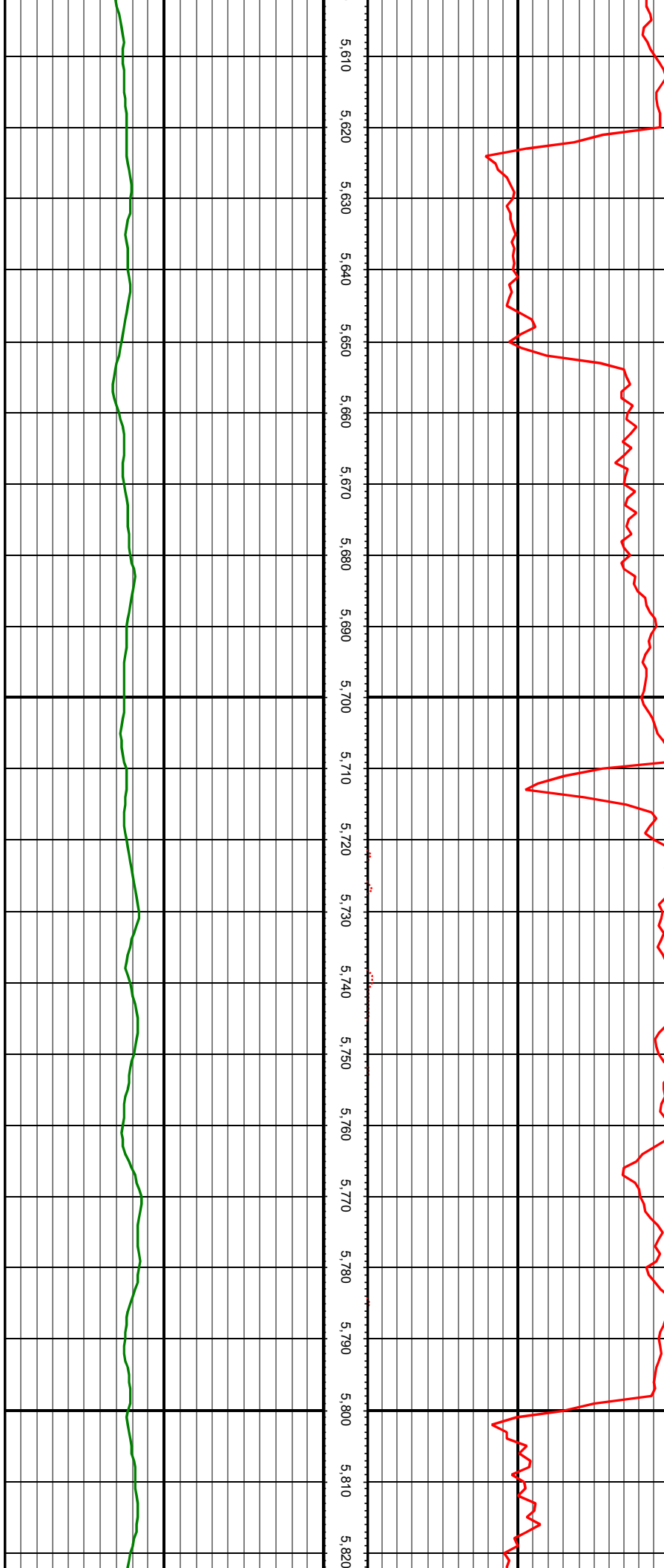
MD: 5388.00 INC: 11.56 AZ: 42.62 TVD: 5320.16 VS: -610.57



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MD: 5477.00 INC: 10.90 AZ: 40.42 TVD: 5407.46 VS: -622.71

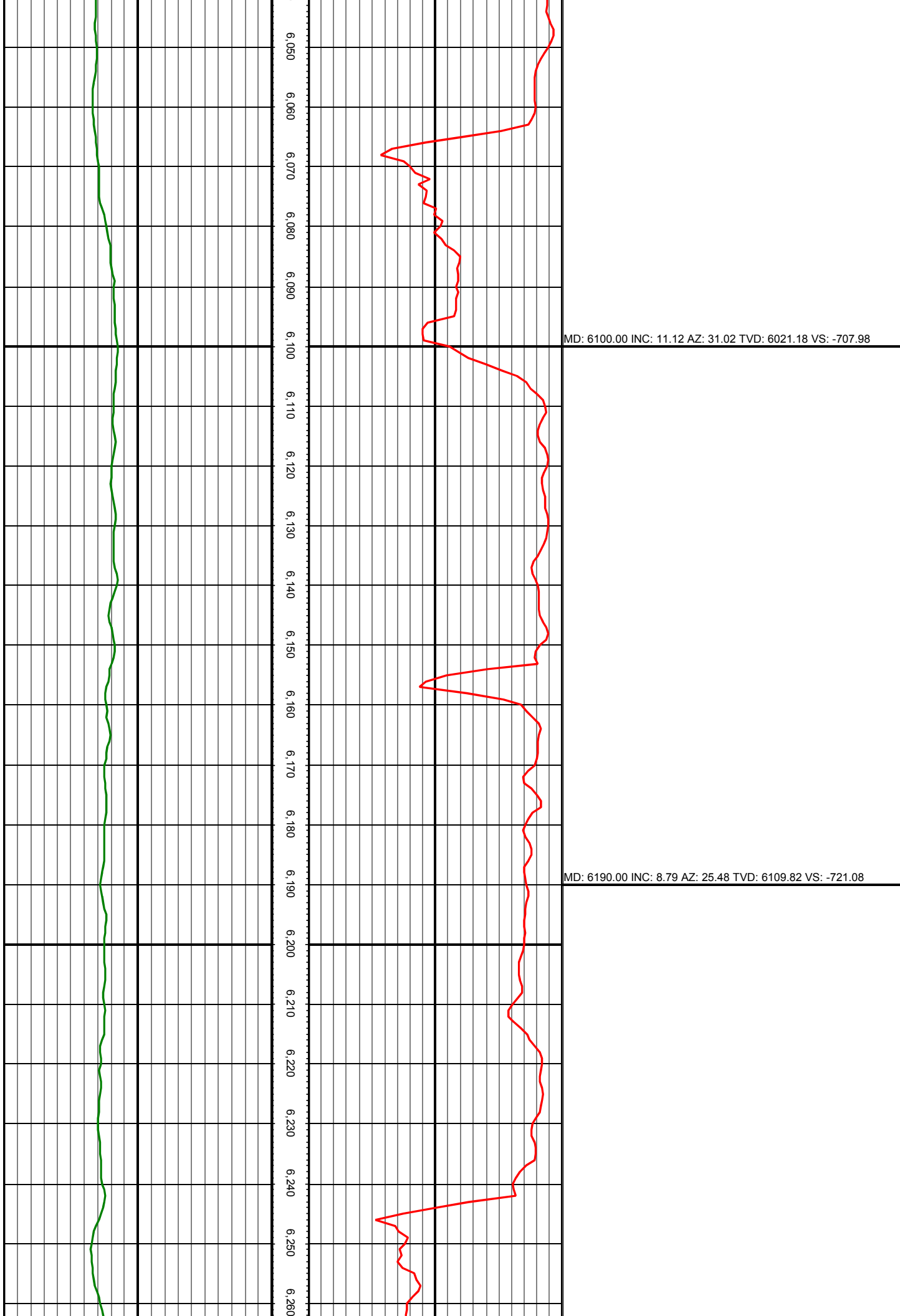
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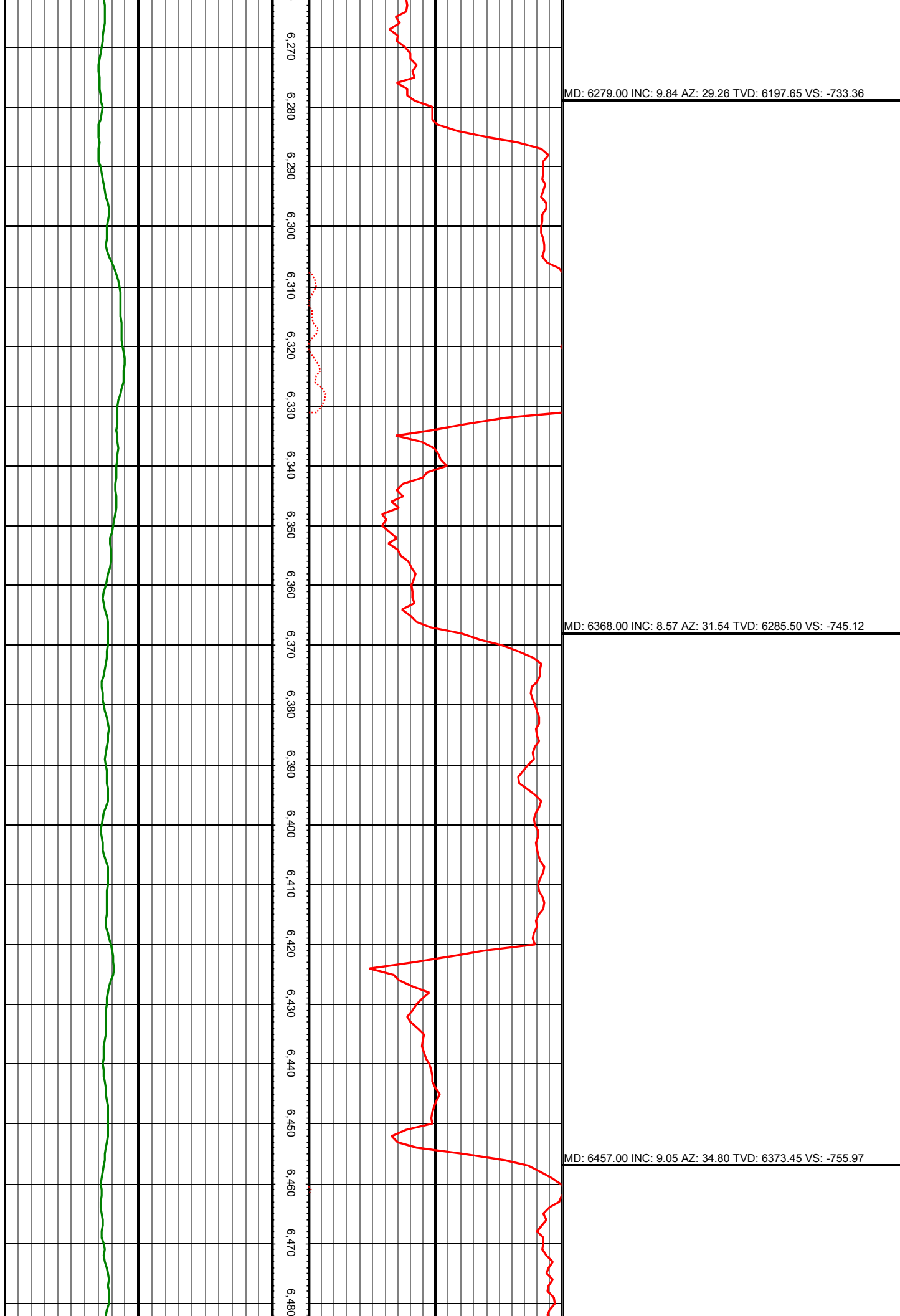


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MD: 5744.00 INC: 8.22 AZ: 33.65 TVD: 5670.66 VS: -656.75

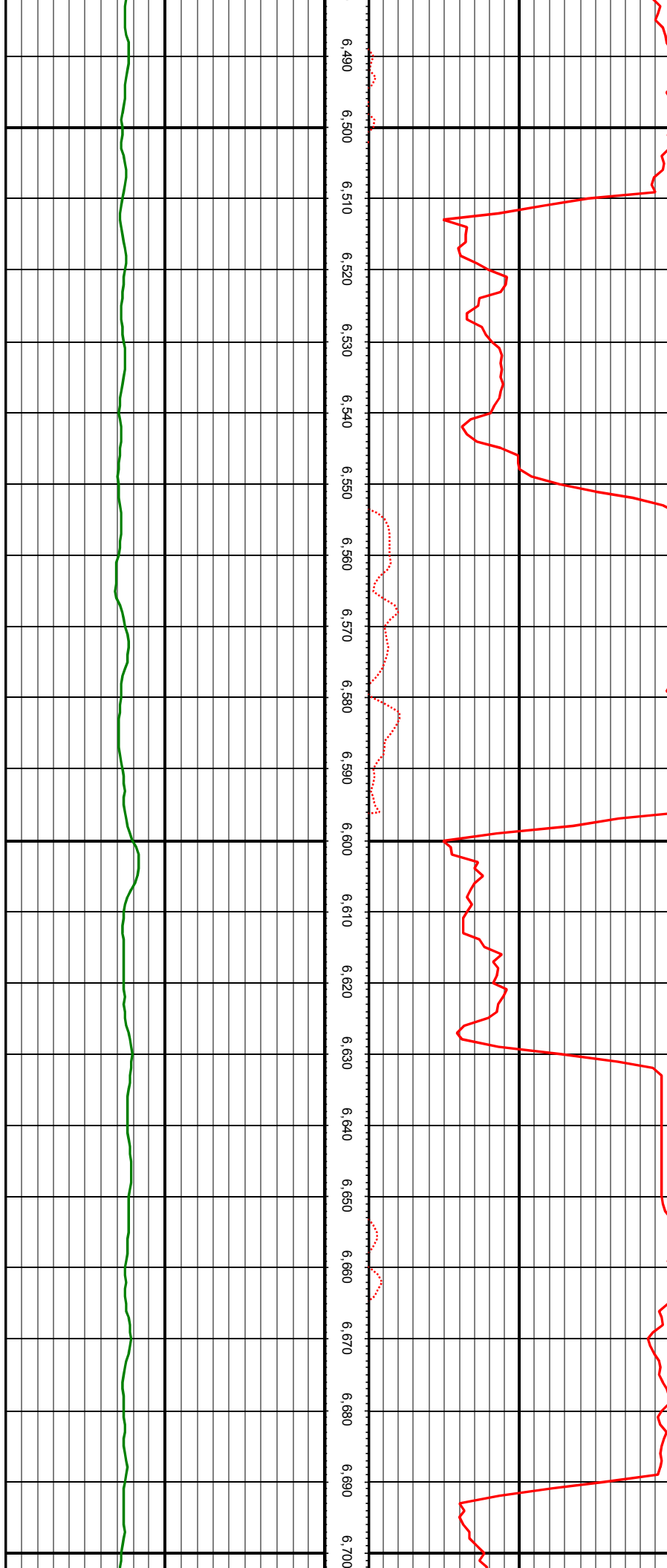




MD: 6279.00 INC: 9.84 AZ: 29.26 TVD: 6197.65 VS: -733.36

MD: 6368.00 INC: 8.57 AZ: 31.54 TVD: 6285.50 VS: -745.12

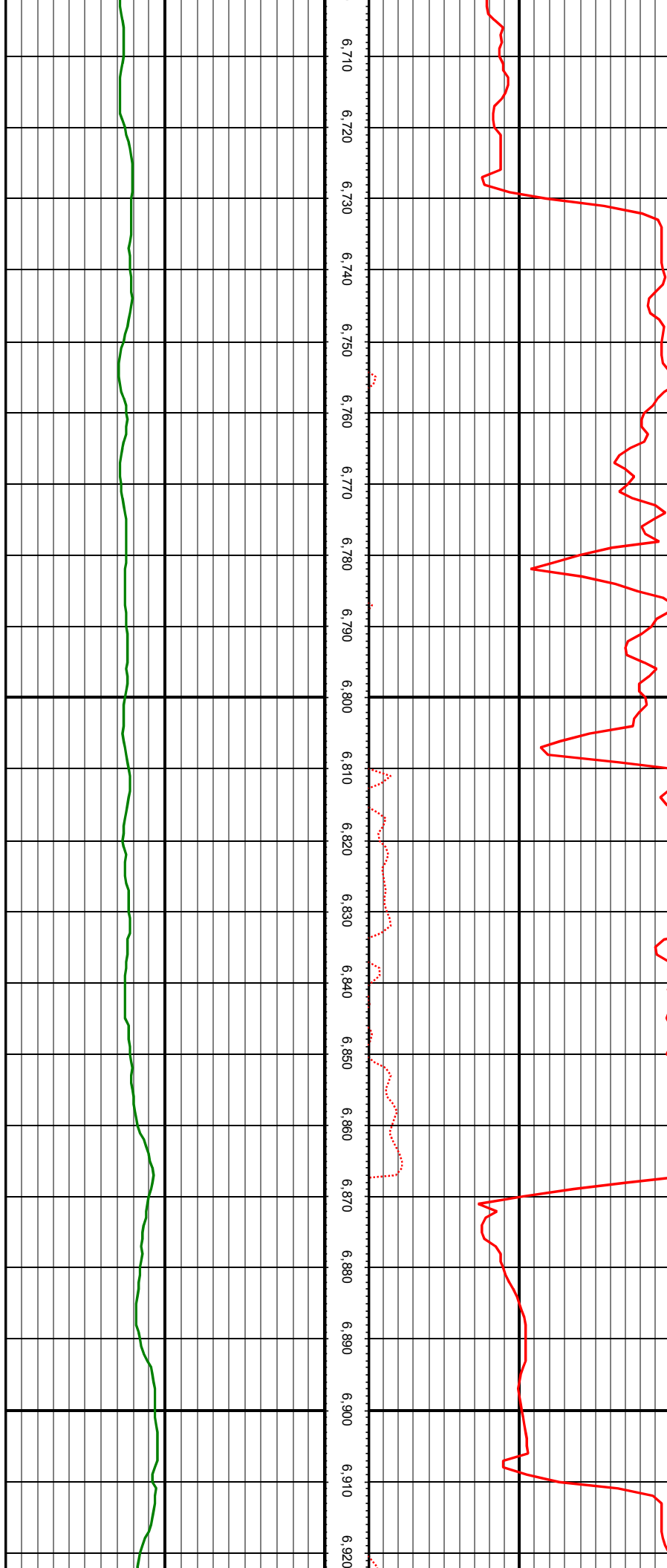
MD: 6457.00 INC: 9.05 AZ: 34.80 TVD: 6373.45 VS: -755.97



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MD: 6546.00 INC: 10.64 AZ: 32.77 TVD: 6461.14 VS: -768.01

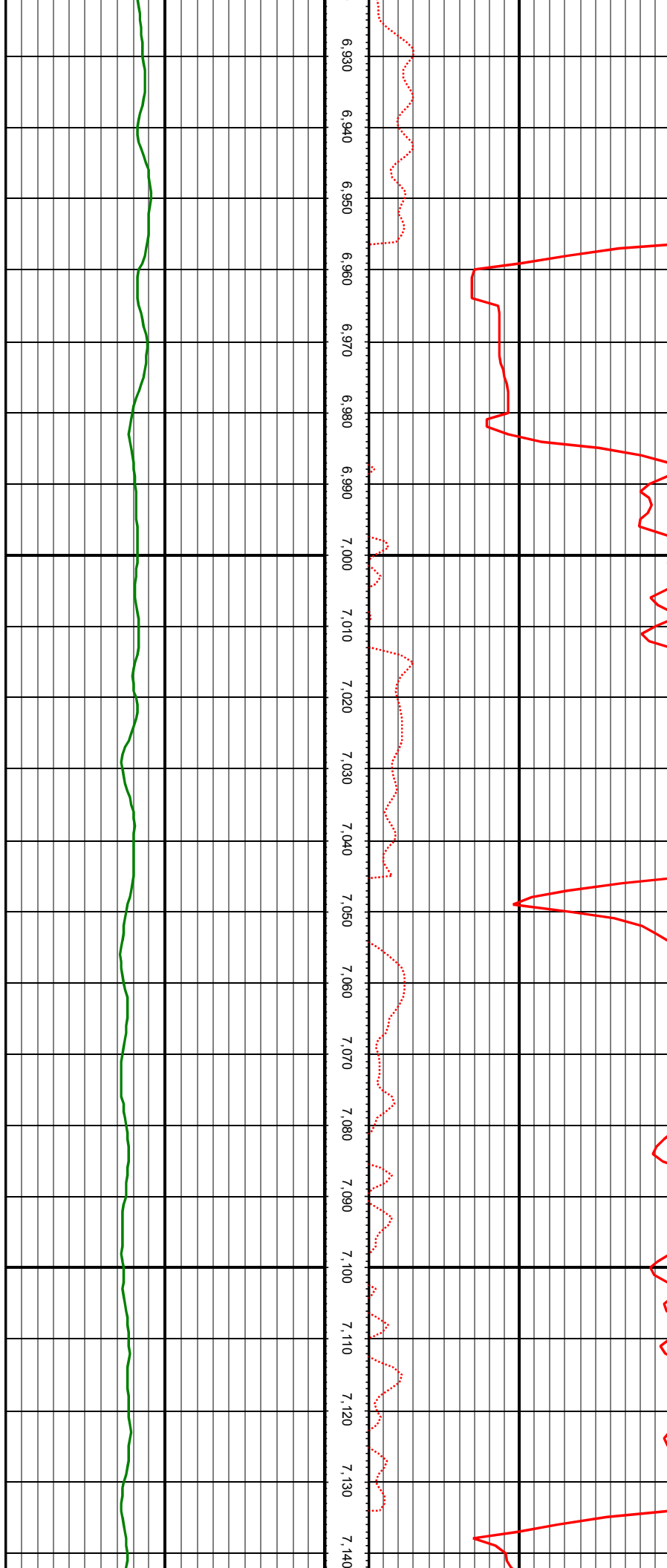
MD: 6635.00 INC: 10.64 AZ: 40.51 TVD: 6548.61 VS: -780.46



MD: 6724.00 INC: 10.99 AZ: 27.24 TVD: 6636.04 VS: -793.58

MD: 6814.00 INC: 8.70 AZ: 21.96 TVD: 6724.71 VS: -807.04

MD: 6903.00 INC: 10.42 AZ: 31.37 TVD: 6812.48 VS: -819.66



MD: 6992.00 INC: 10.77 AZ: 29.96 TVD: 6899.96 VS: -833.12

MD: 7081.00 INC: 8.39 AZ: 18.01 TVD: 6987.72 VS: -846.04

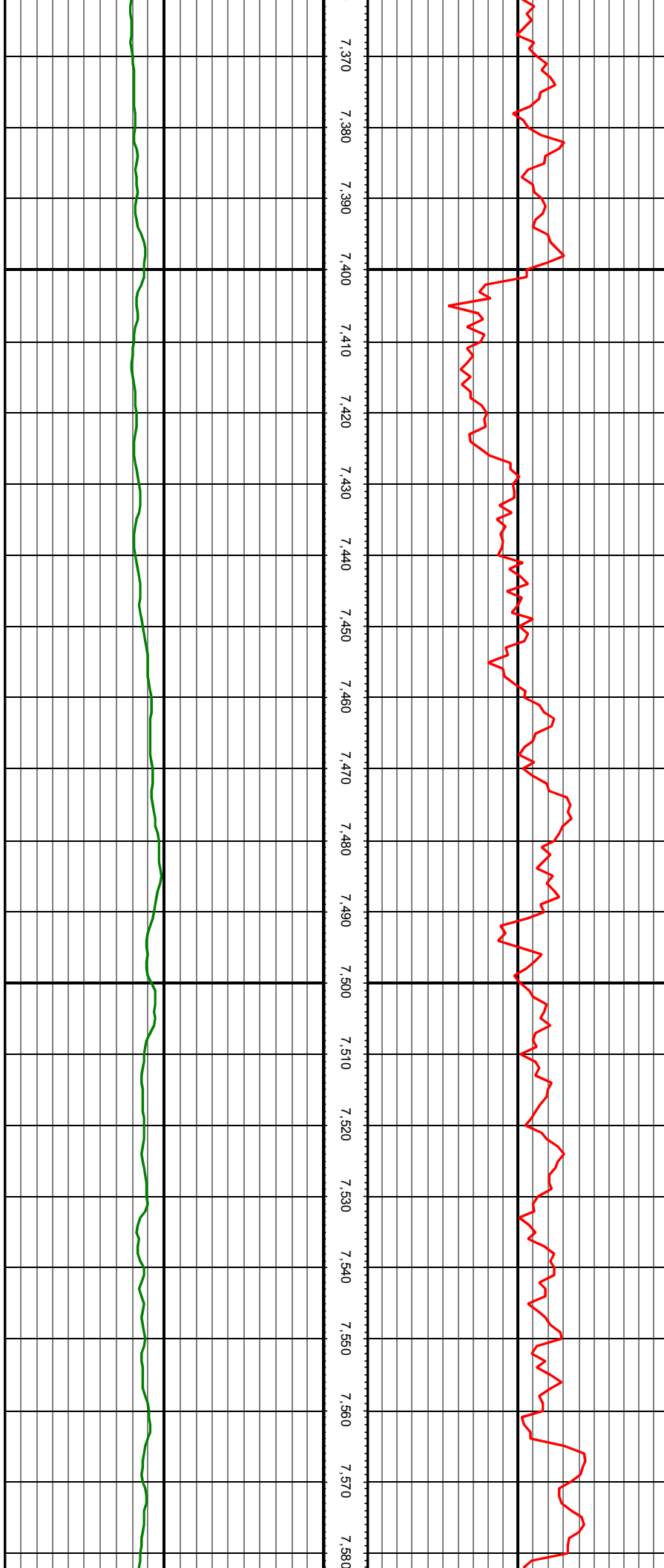


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MD: 7170.00 INC: 9.36 AZ: 36.90 TVD: 7075.68 VS: -857.54

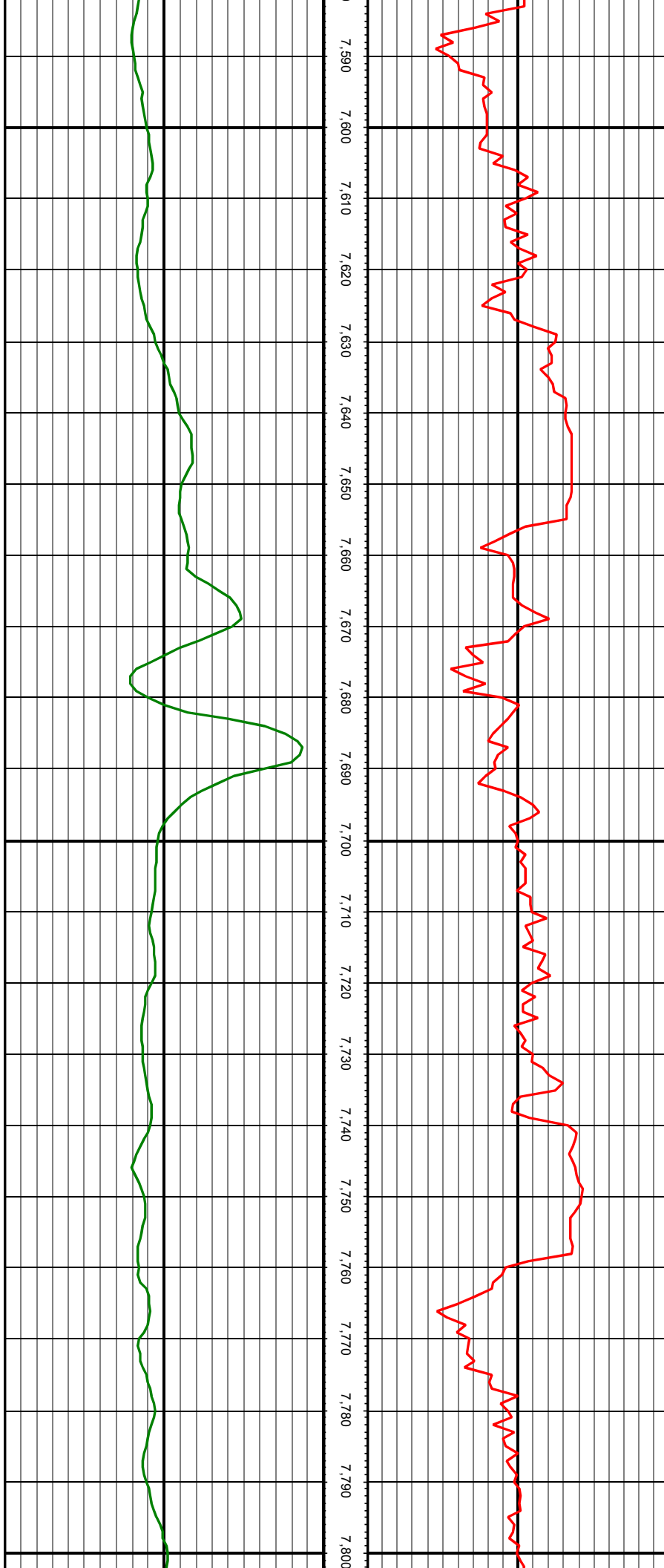
MD: 7260.00 INC: 13.40 AZ: 82.70 TVD: 7164.06 VS: -863.69

MD: 7349.00 INC: 17.18 AZ: 111.26 TVD: 7250.01 VS: -858.67



MD: 7438.00 INC: 19.12 AZ: 139.82 TVD: 7334.75 VS: -841.27

MD: 7527.00 INC: 23.16 AZ: 161.97 TVD: 7417.87 VS: -812.47

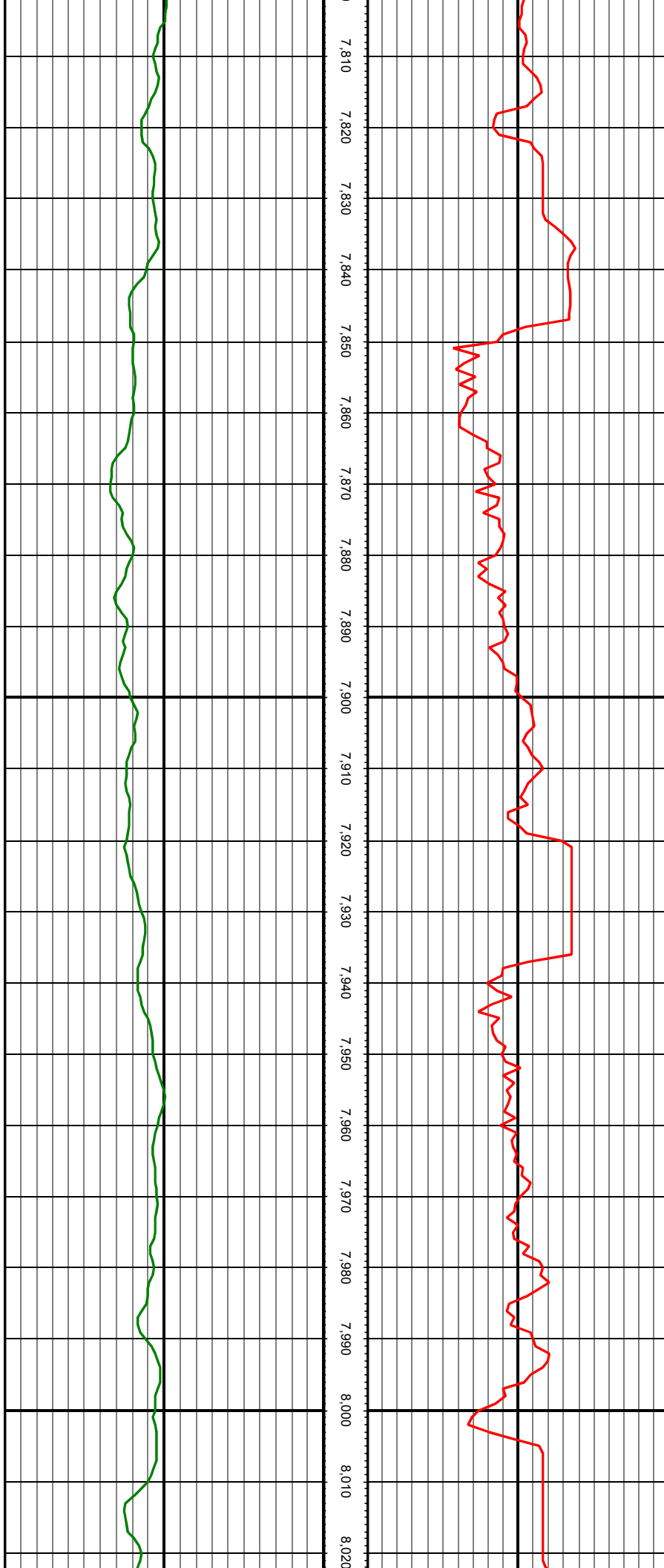


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MD: 7616.00 INC: 29.88 AZ: 179.29 TVD: 7497.58 VS: -773.26

MD: 7705.00 INC: 34.98 AZ: 182.54 TVD: 7572.68 VS: -725.74

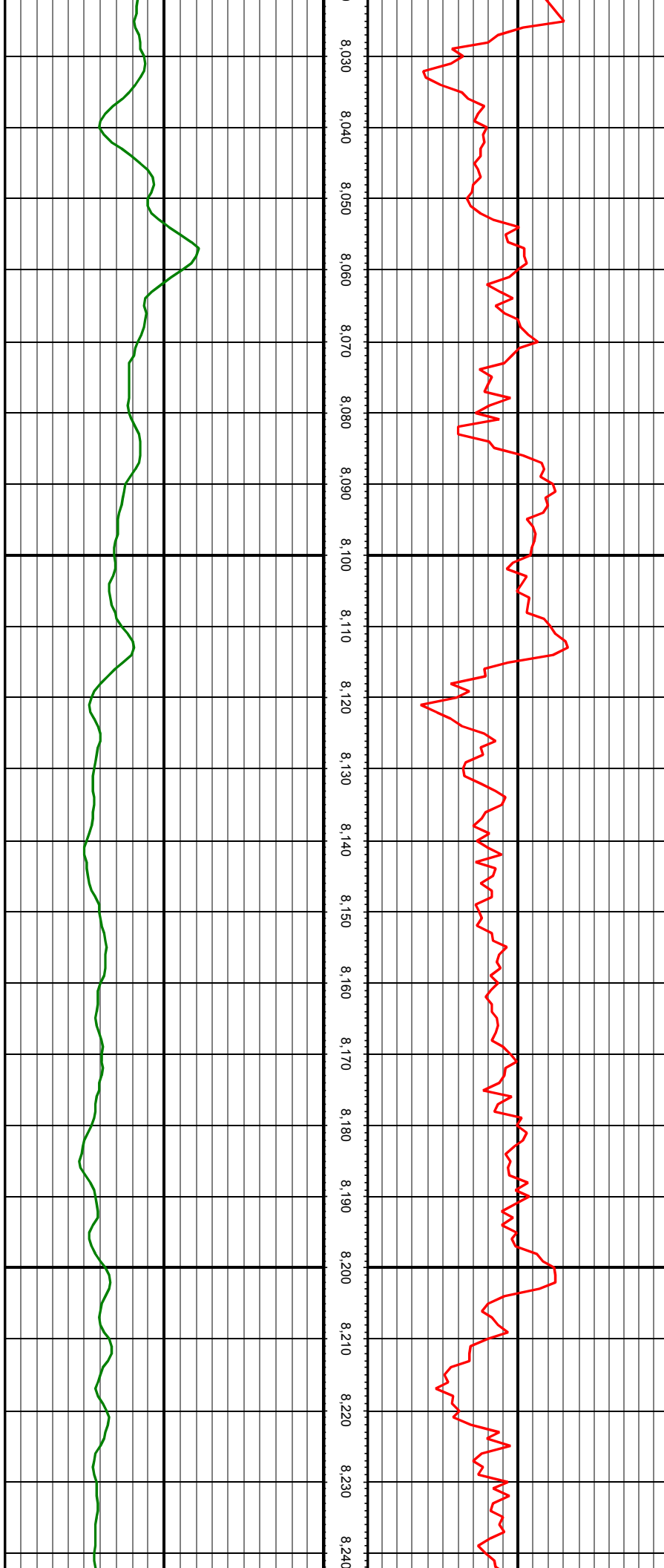
MD: 7794.00 INC: 39.77 AZ: 180.34 TVD: 7643.39 VS: -671.98



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MD: 7884.00 INC: 45.57 AZ: 178.85 TVD: 7709.54 VS: -611.12

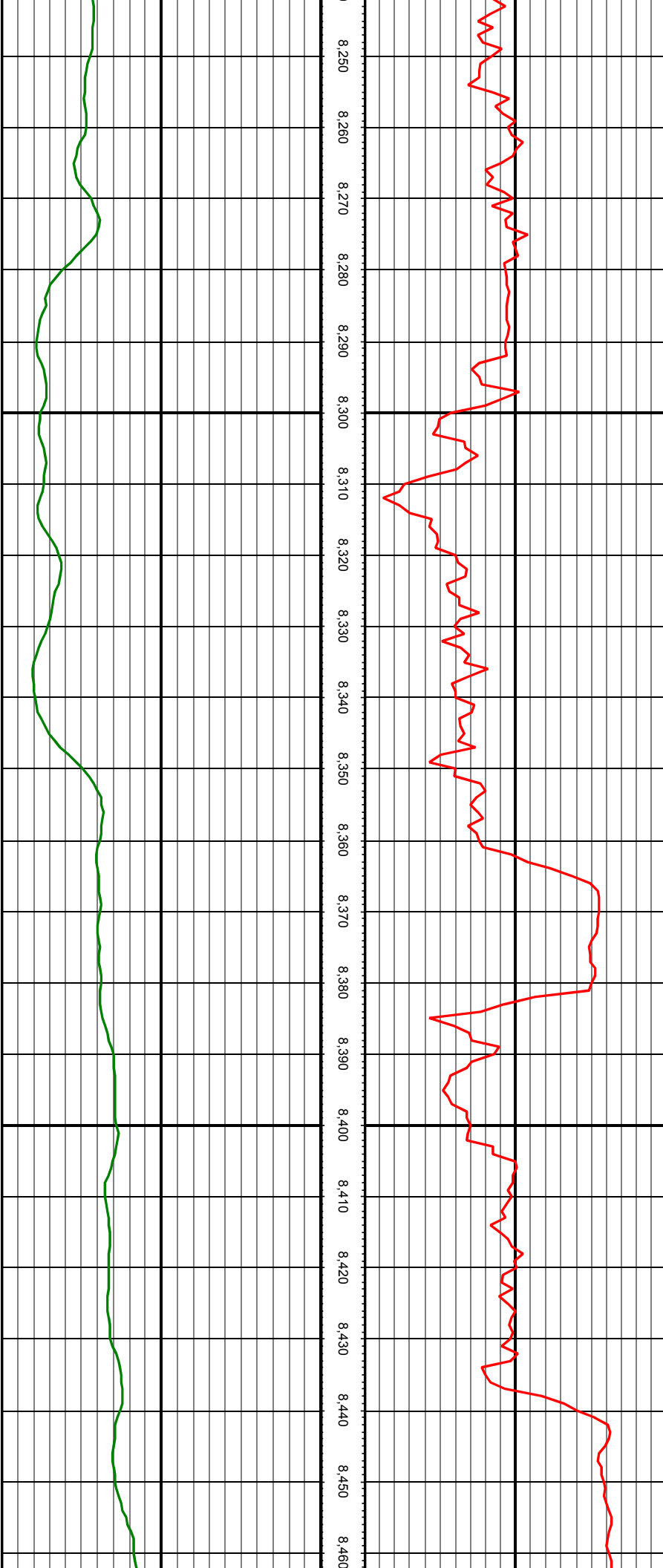
MD: 7973.00 INC: 52.16 AZ: 178.76 TVD: 7768.05 VS: -544.21



MD: 8062.00 INC: 58.84 AZ: 181.66 TVD: 7818.44 VS: -471.11

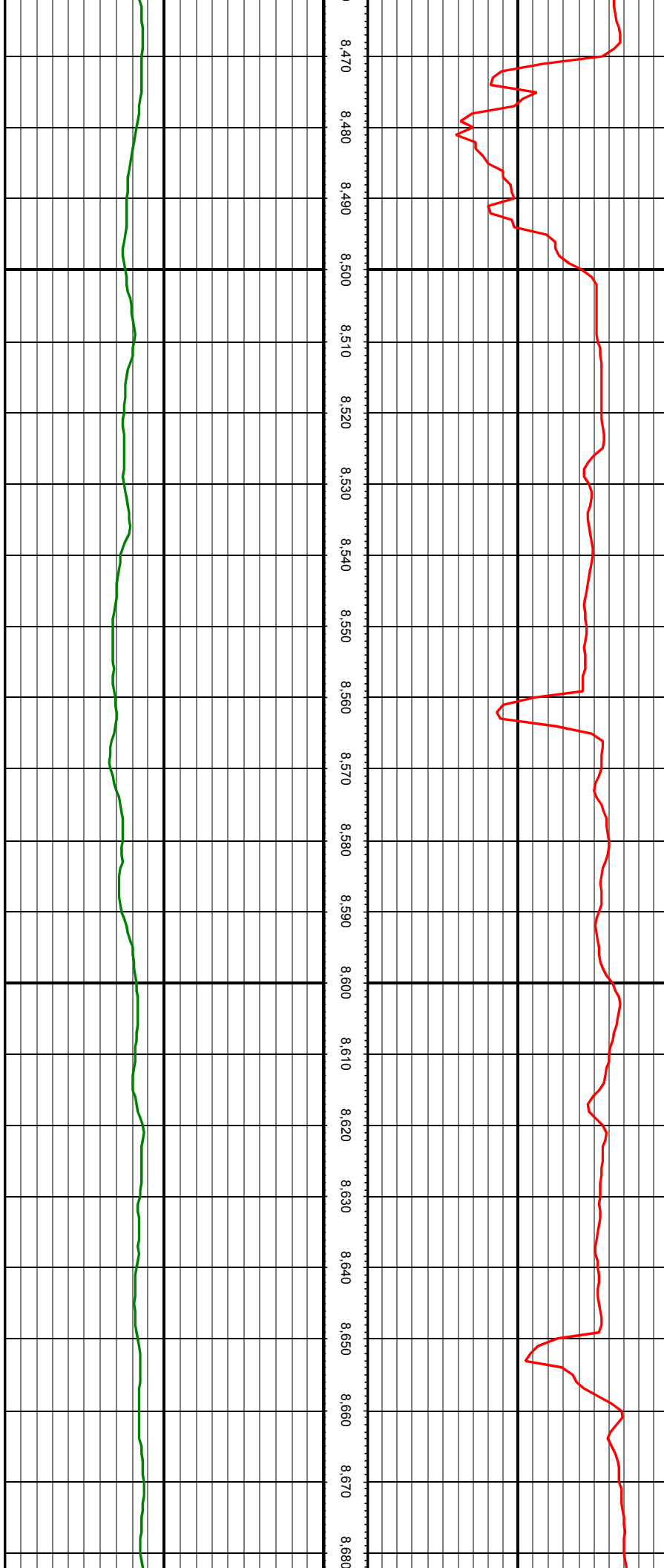
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MD: 8240.00 INC: 71.32 AZ: 180.87 TVD: 7893.38 VS: -310.51



MD: 8329.00 INC: 75.72 AZ: 179.29 TVD: 7918.63 VS: -225.40

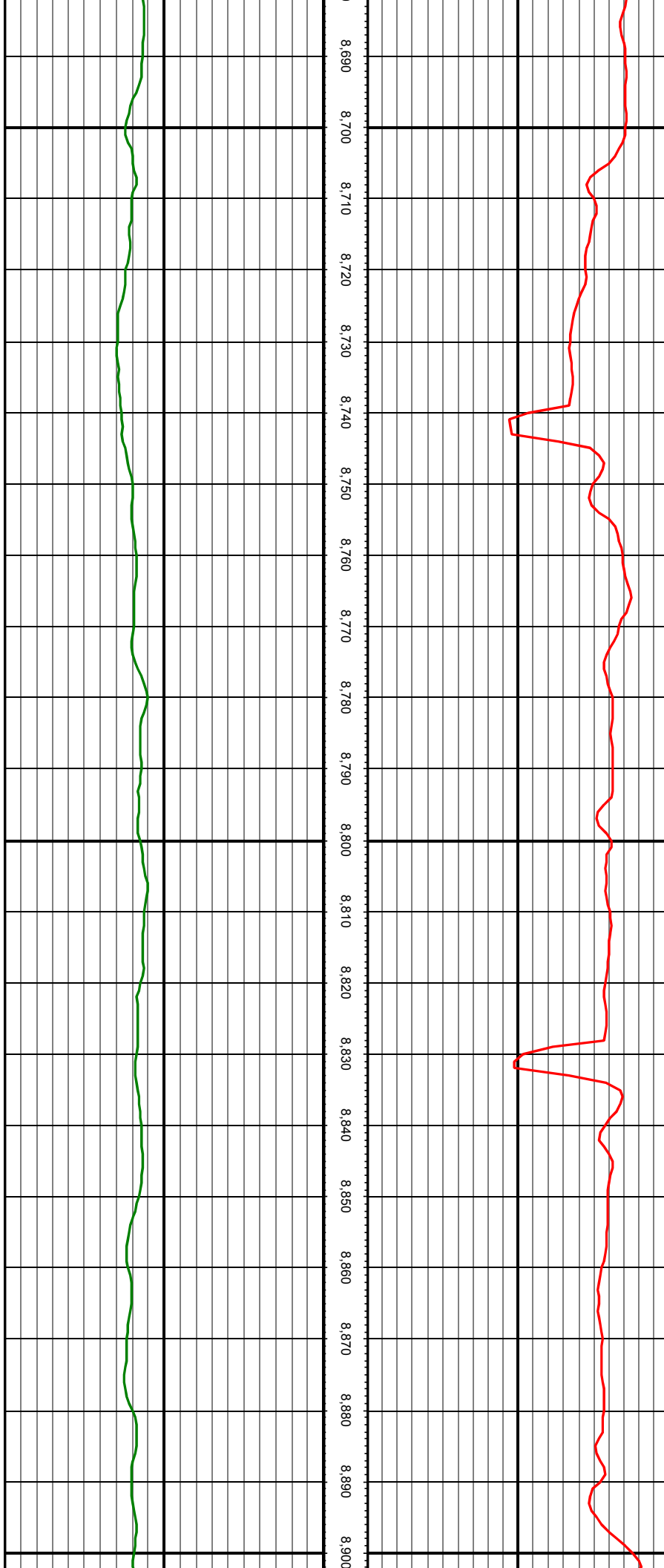
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MD: 8507.00 INC: 89.12 AZ: 180.34 TVD: 7938.63 VS: -49.26

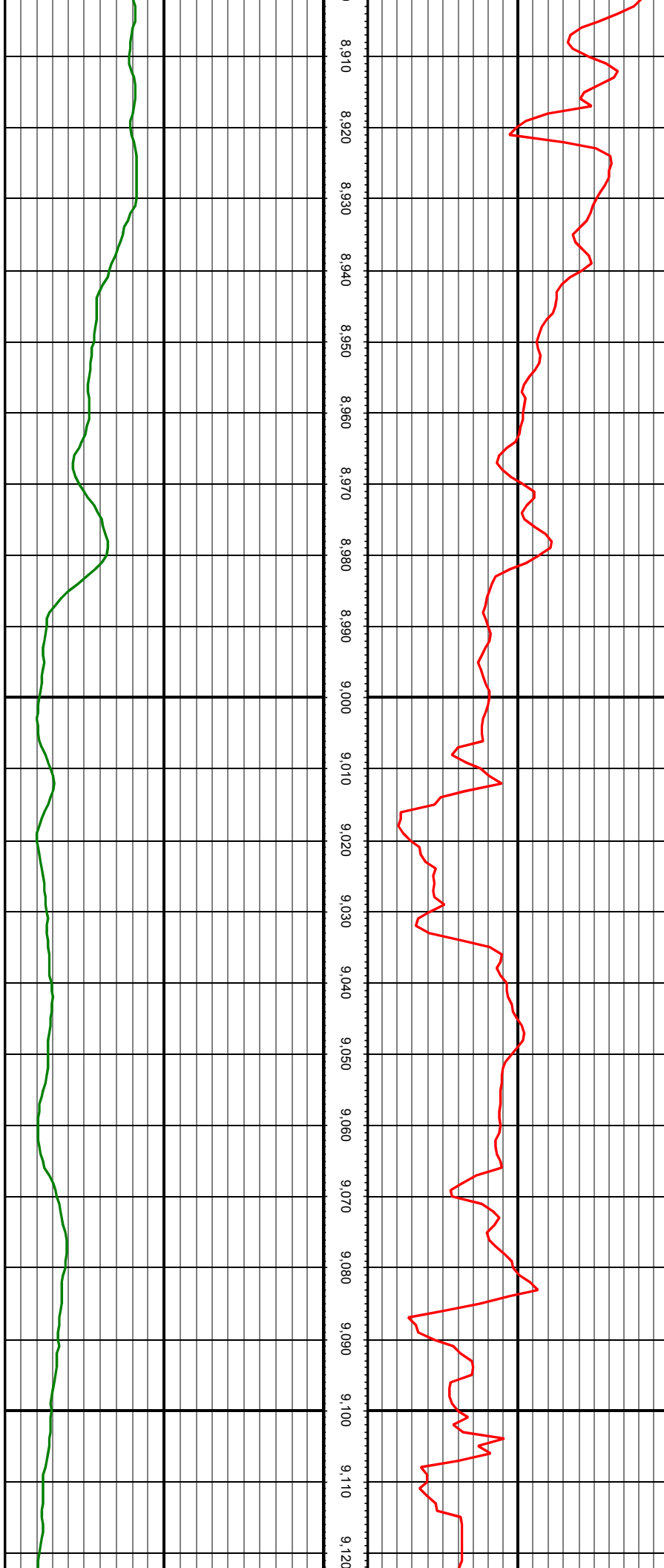
MD: 8596.00 INC: 88.51 AZ: 180.08 TVD: 7940.48 VS: 39.48

MD: 8685.00 INC: 88.51 AZ: 179.73 TVD: 7942.79 VS: 128.25



MD: 8774.00 INC: 88.55 AZ: 181.05 TVD: 7945.07 VS: 216.96

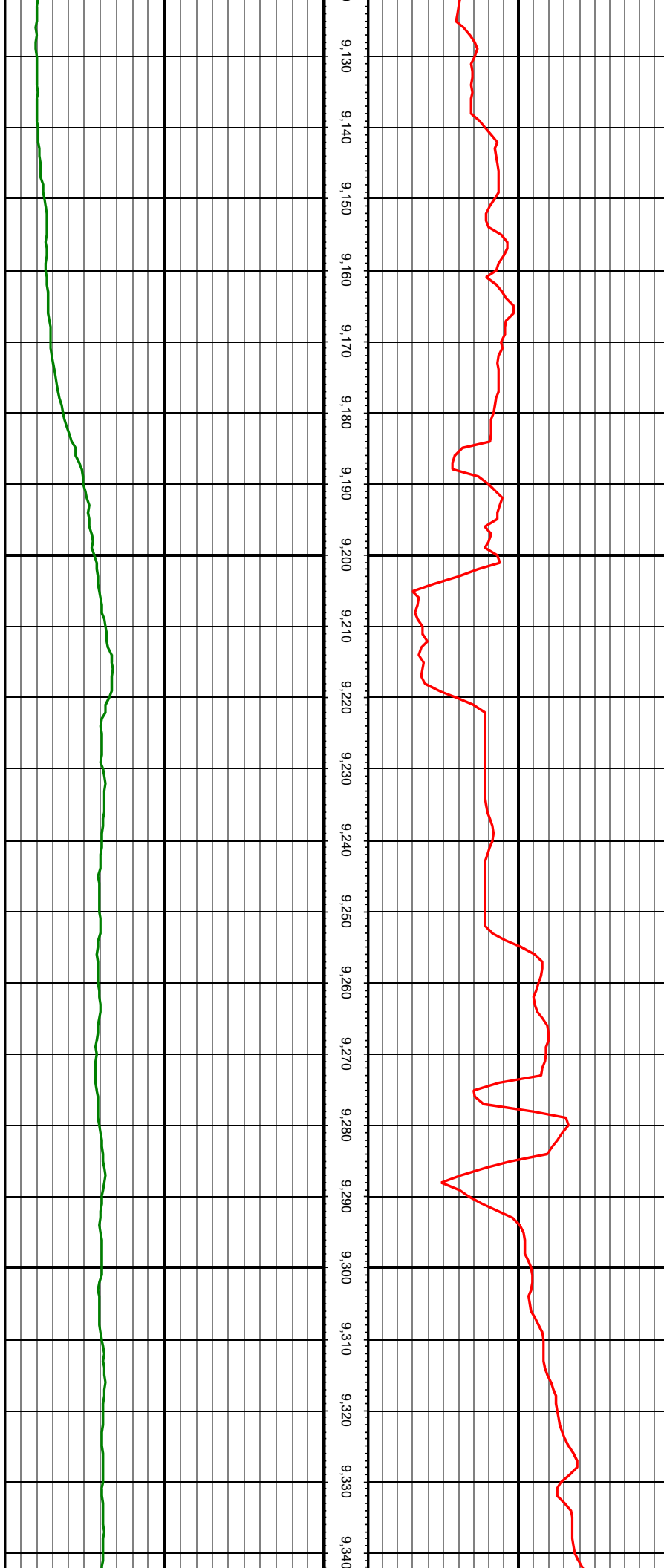
MD: 8863.00 INC: 88.29 AZ: 180.17 TVD: 7947.53 VS: 305.64



MD: 8952.00 INC: 87.67 AZ: 179.02 TVD: 7950.66 VS: 394.41

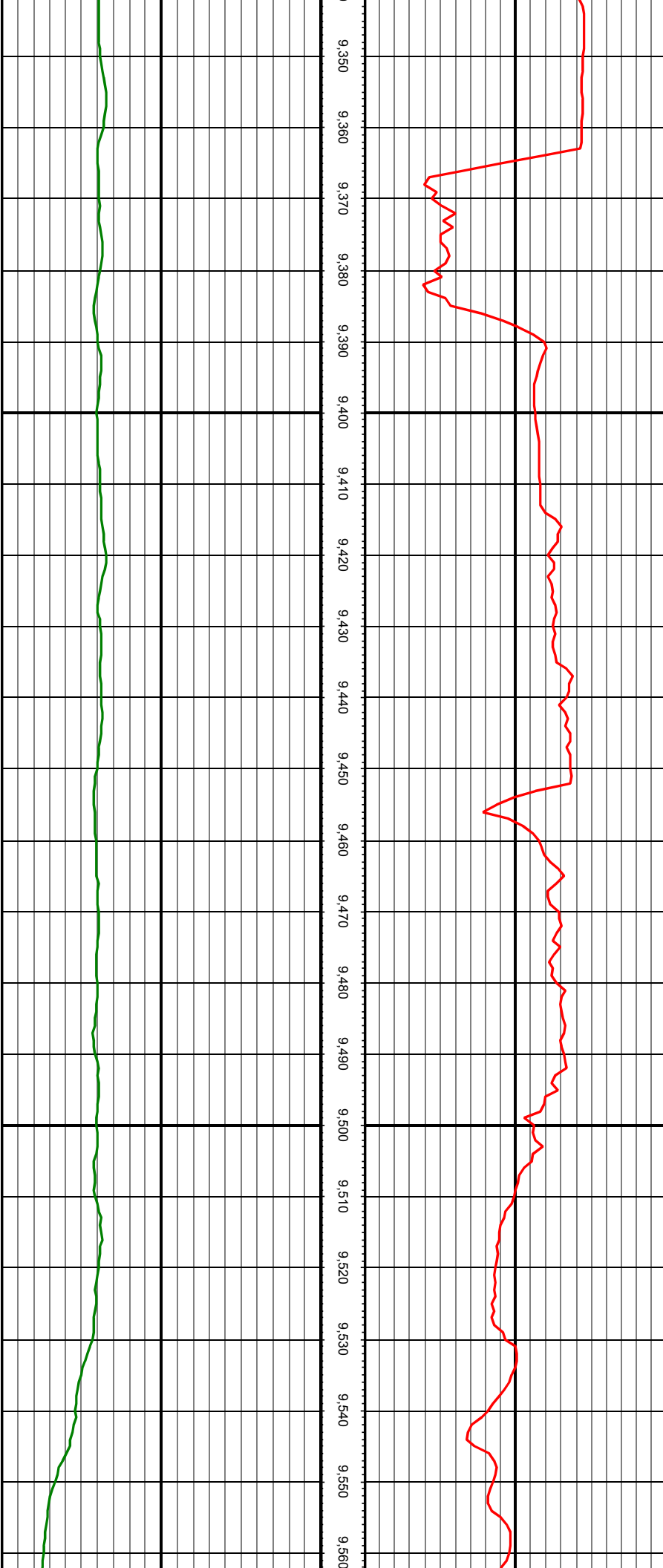
MD: 9041.00 INC: 90.31 AZ: 179.55 TVD: 7952.23 VS: 483.24

MD: 9130.00 INC: 90.18 AZ: 179.29 TVD: 7951.85 VS: 572.08



MD: 9219.00 INC: 88.77 AZ: 179.99 TVD: 7952.67 VS: 660.90

MD: 9309.00 INC: 88.68 AZ: 178.94 TVD: 7954.67 VS: 750.71



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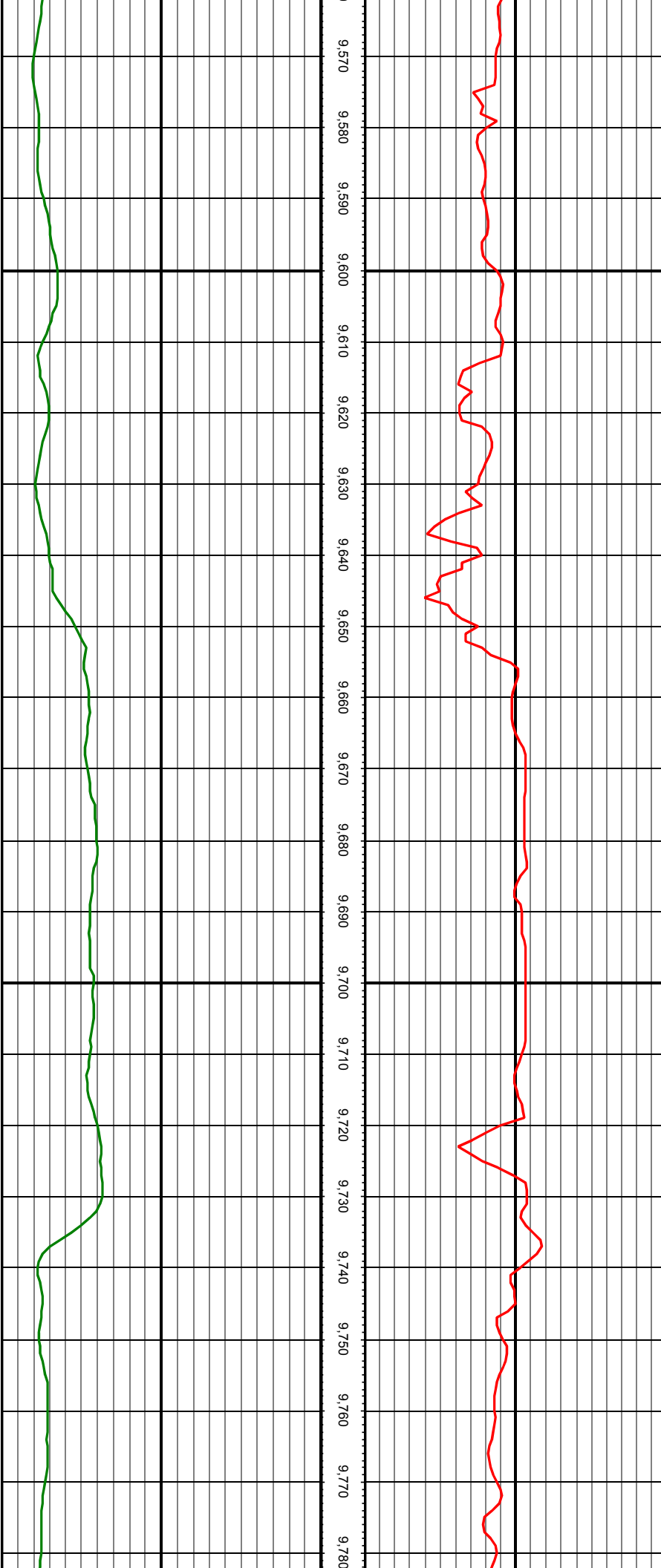
MD: 9398.00 INC: 89.08 AZ: 181.22 TVD: 7956.41 VS: 839.46

MD: 9487.00 INC: 89.03 AZ: 180.43 TVD: 7957.88 VS: 928.14

MD: 9576.00 INC: 88.42 AZ: 179.55 TVD: 7959.86 VS: 1016.90

MD: 9665.00 INC: 88.42 AZ: 178.76 TVD: 7962.31 VS: 1105.73

MD: 9754.00 INC: 88.81 AZ: 178.23 TVD: 7964.46 VS: 1194.63

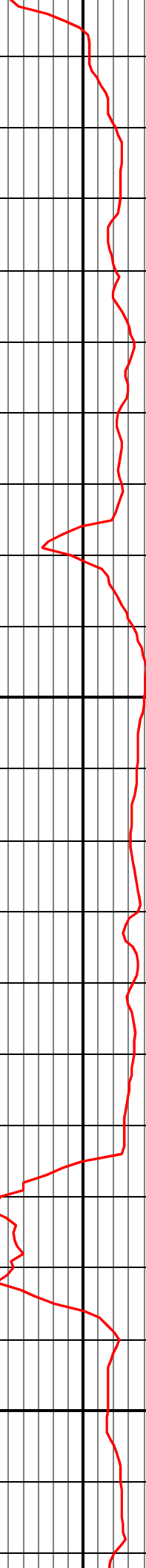
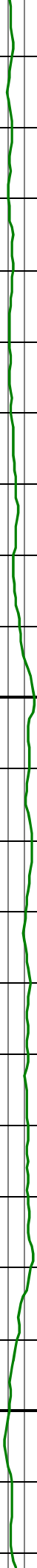




MD: 9843.00 INC: 87.72 AZ: 180.34 TVD: 7967.16 VS: 1283.43

MD: 9932.00 INC: 87.67 AZ: 180.25 TVD: 7970.74 VS: 1372.11

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MD: 10110.00 INC: 89.43 AZ: 179.20 TVD: 7973.67 VS: 1549.64

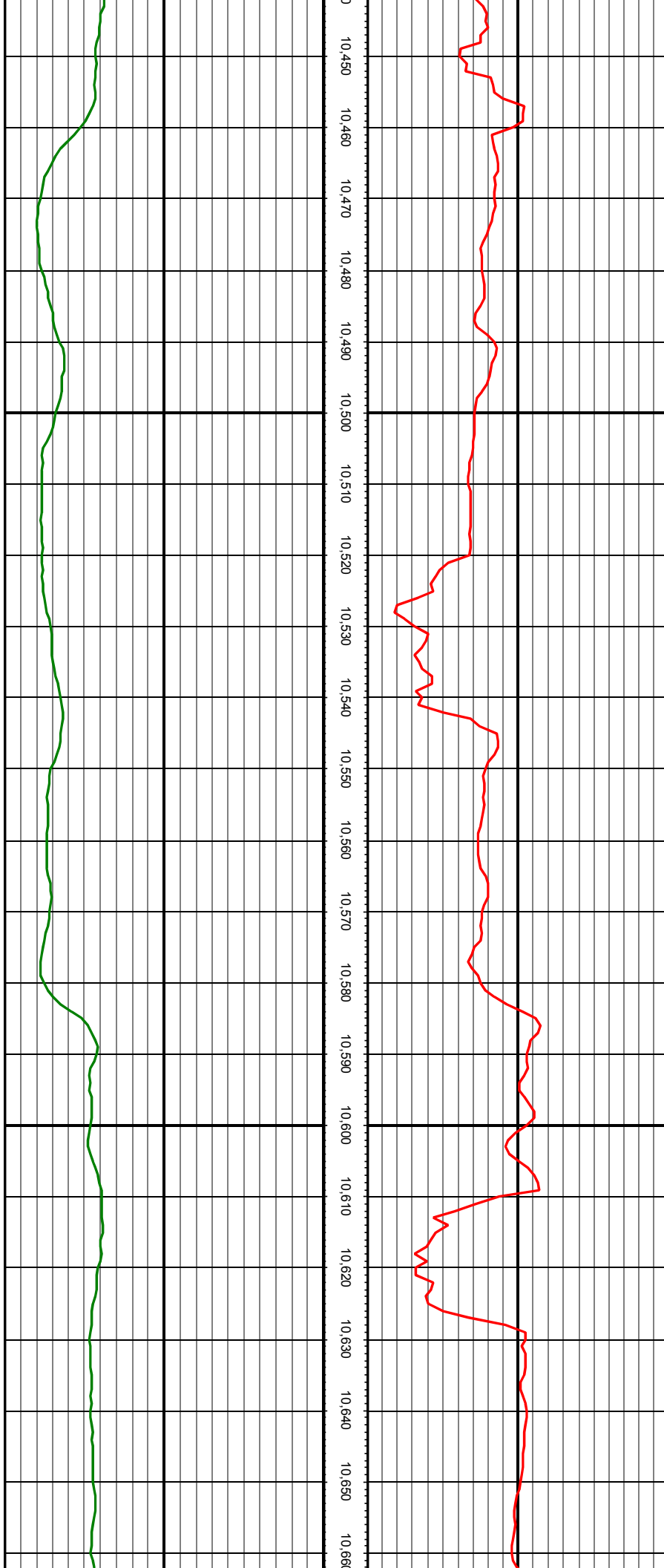
MD: 10199.00 INC: 91.23 AZ: 179.99 TVD: 7973.16 VS: 1638.46



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MD: 10288.00 INC: 91.45 AZ: 179.38 TVD: 7971.08 VS: 1727.26

MD: 10377.00 INC: 91.89 AZ: 178.50 TVD: 7968.49 VS: 1816.10

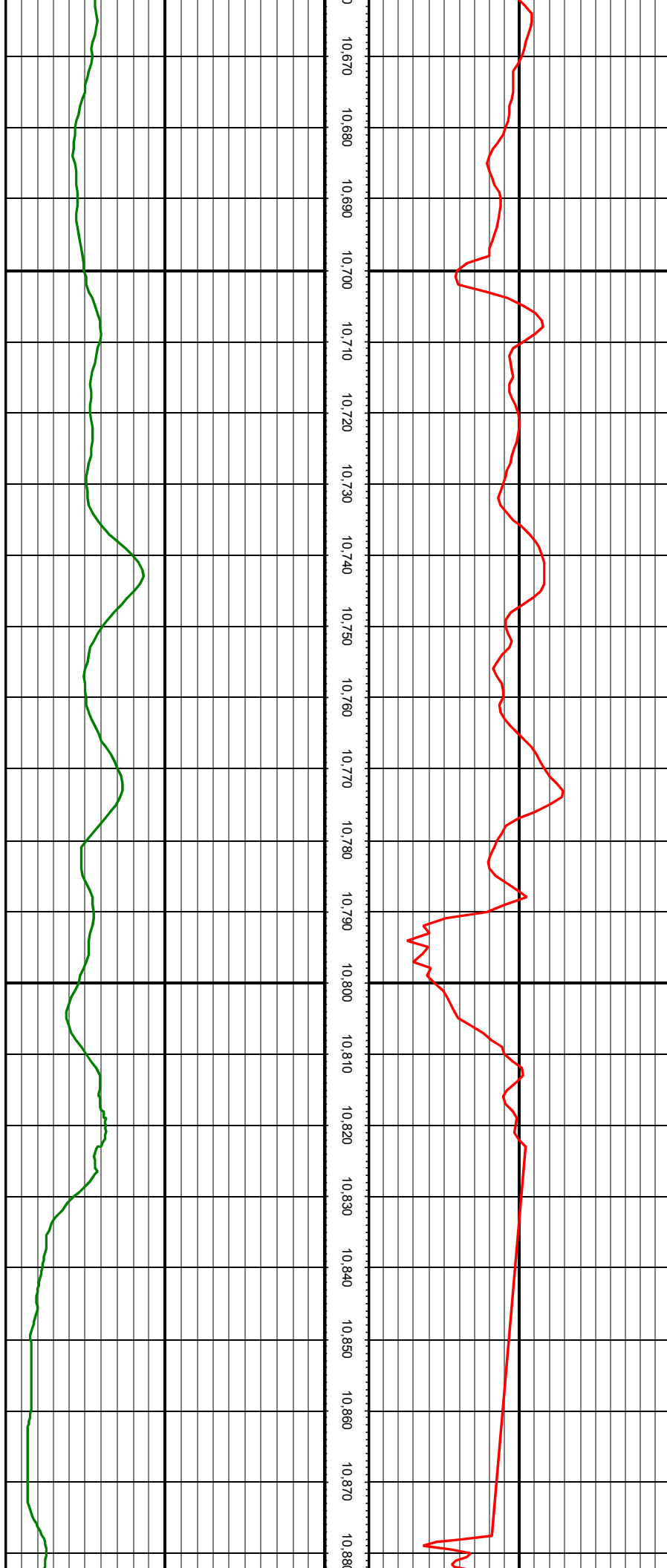


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10,660

MD: 10467.00 INC: 91.63 AZ: 179.55 TVD: 7965.72 VS: 1905.93

MD: 10556.00 INC: 90.31 AZ: 180.34 TVD: 7964.21 VS: 1994.71

MD: 10645.00 INC: 88.86 AZ: 180.96 TVD: 7964.86 VS: 2083.41



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MD: 10734.00 INC: 87.67 AZ: 179.82 TVD: 7967.55 VS: 2172.11

MD: 10823.00 INC: 88.07 AZ: 179.46 TVD: 7970.86 VS: 2260.87

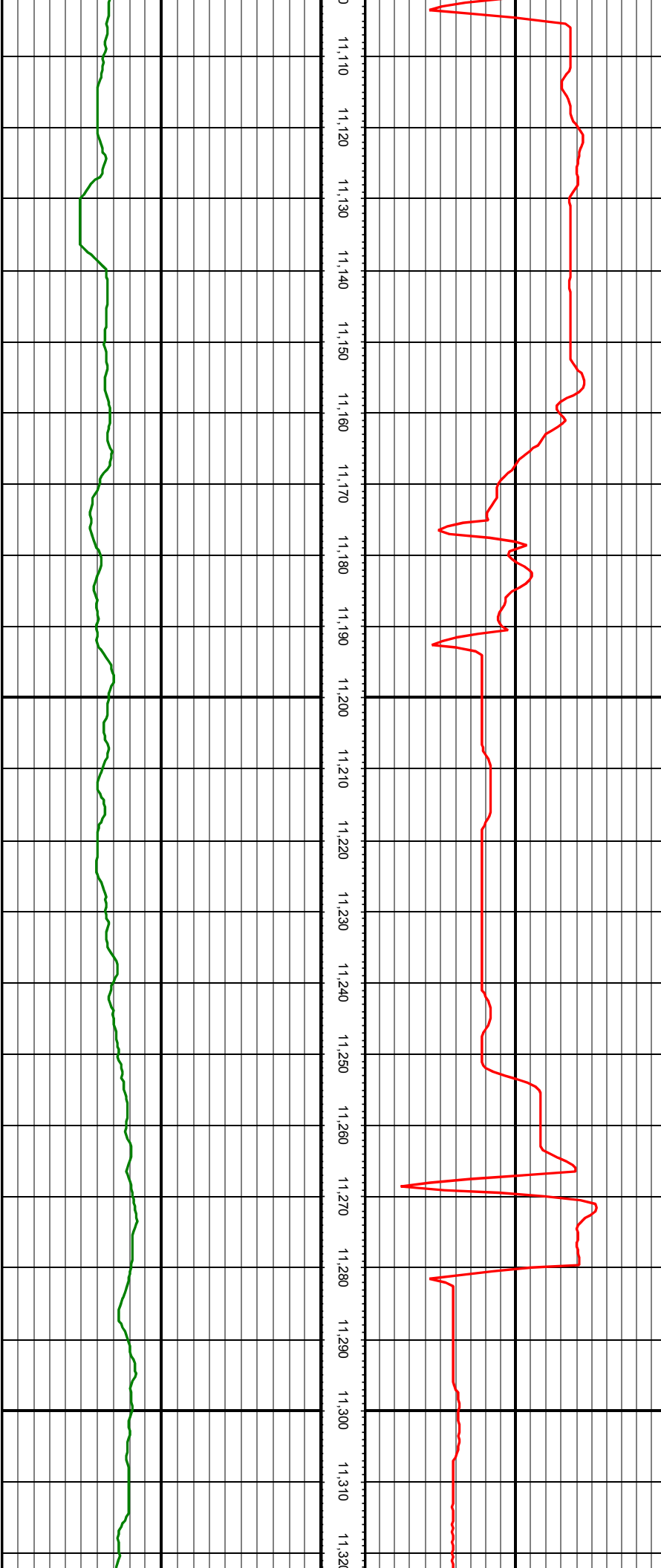
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MD: 10934.00 INC: 88.57 AZ: 179.02 TVD: 7974.19 VS: 2371.65

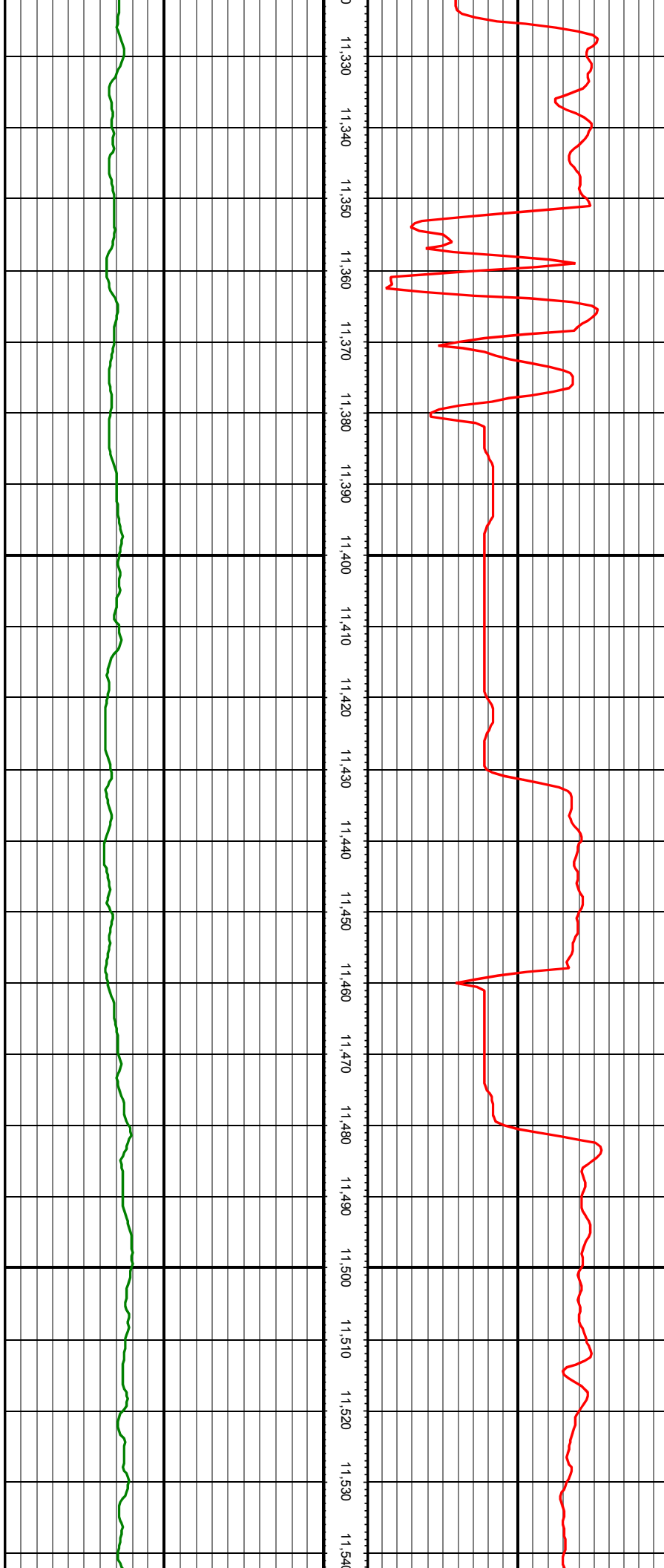
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MD: 11112.00 INC: 92.00 AZ: 179.55 TVD: 7973.10 VS: 2549.36



MD: 11202.00 INC: 91.87 AZ: 179.20 TVD: 7970.06 VS: 2639.16

MD: 11291.00 INC: 91.74 AZ: 178.94 TVD: 7967.26 VS: 2727.98



MD: 11380.00 INC: 91.34 AZ: 179.11 TVD: 7964.86 VS: 2816.83

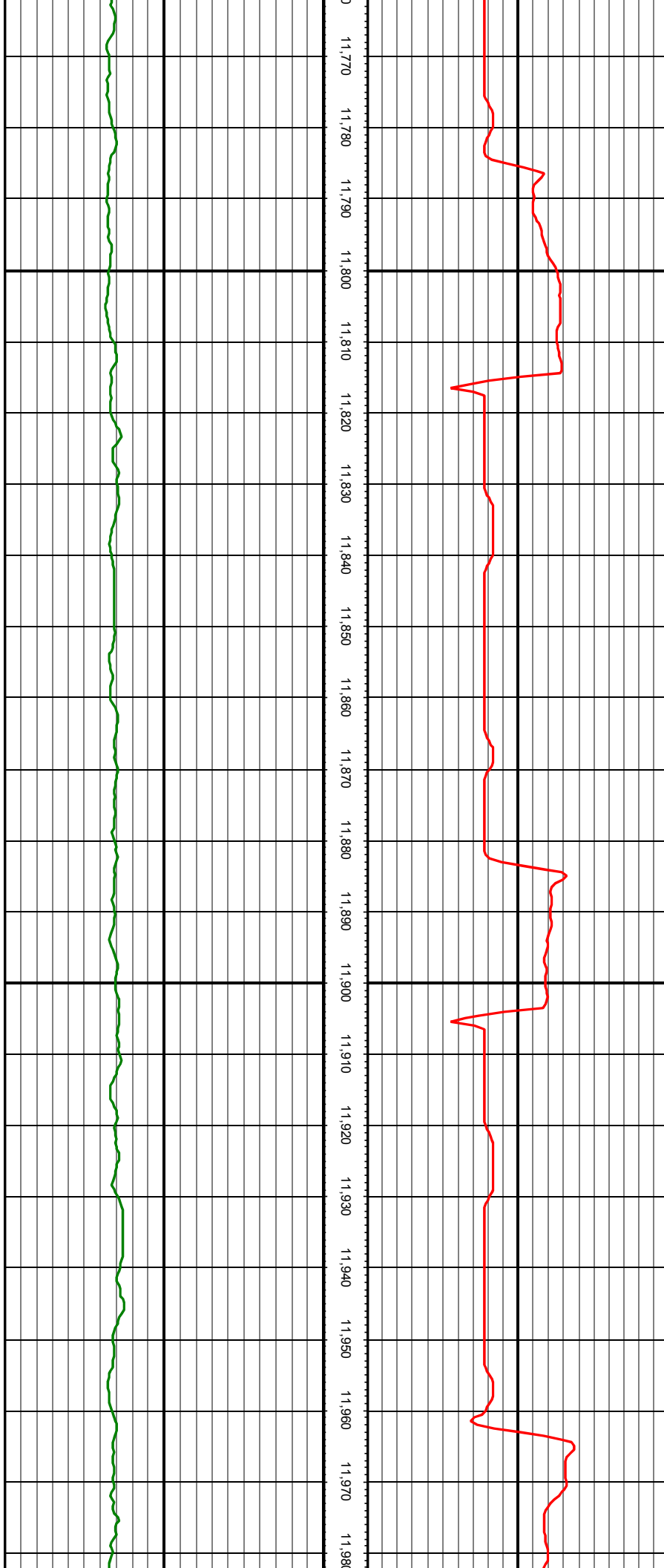
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MD: 11558.00 INC: 91.03 AZ: 179.99 TVD: 7961.28 VS: 2994.46

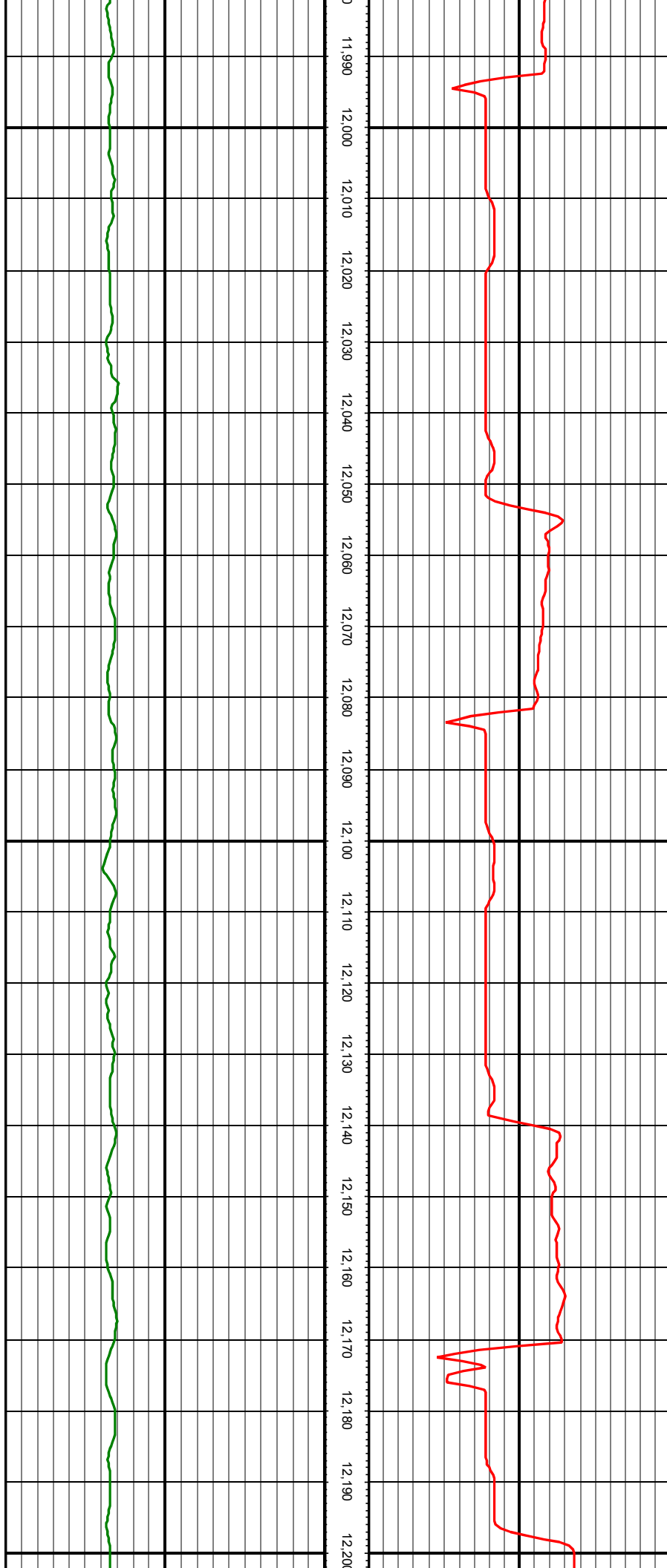
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MD: 11736.00 INC: 90.46 AZ: 181.40 TVD: 7958.87 VS: 3171.86



MD: 11825.00 INC: 90.68 AZ: 182.28 TVD: 7957.98 VS: 3260.40

MD: 11914.00 INC: 90.59 AZ: 182.45 TVD: 7957.00 VS: 3348.85

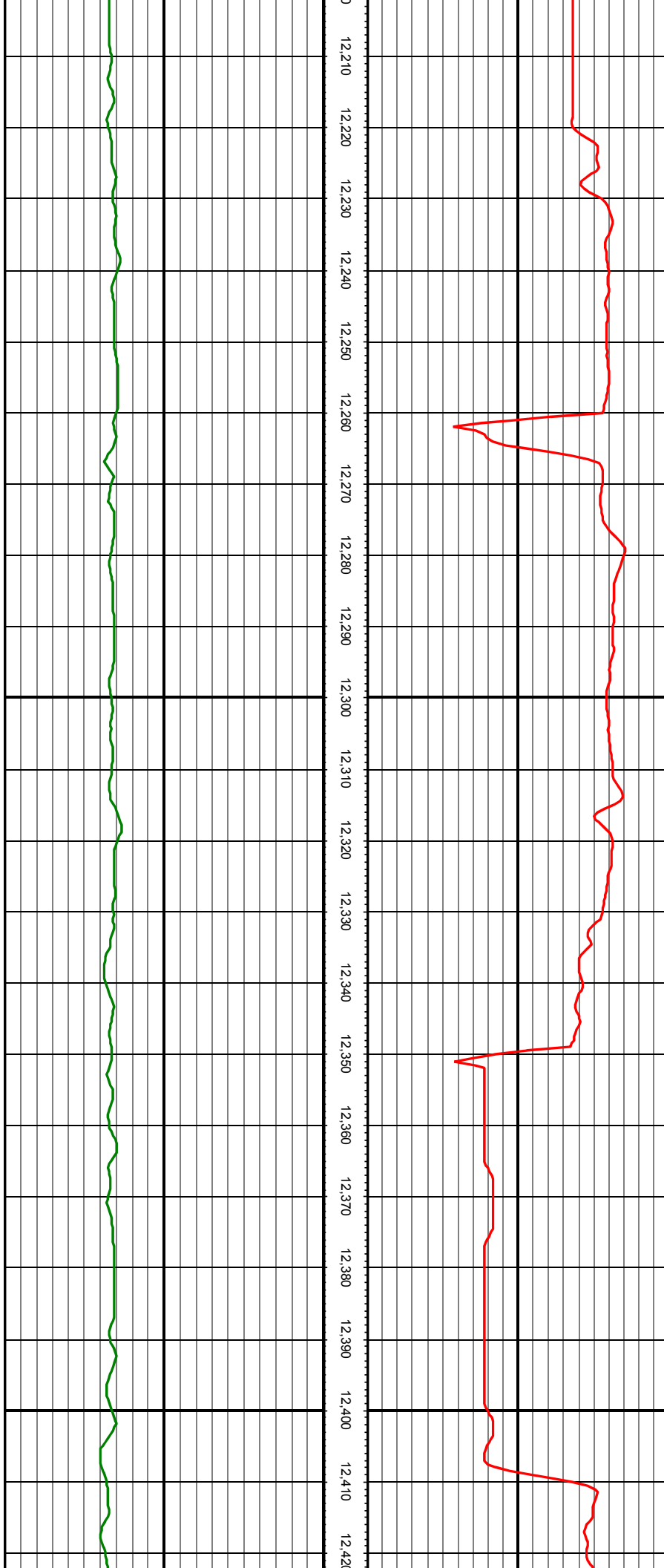


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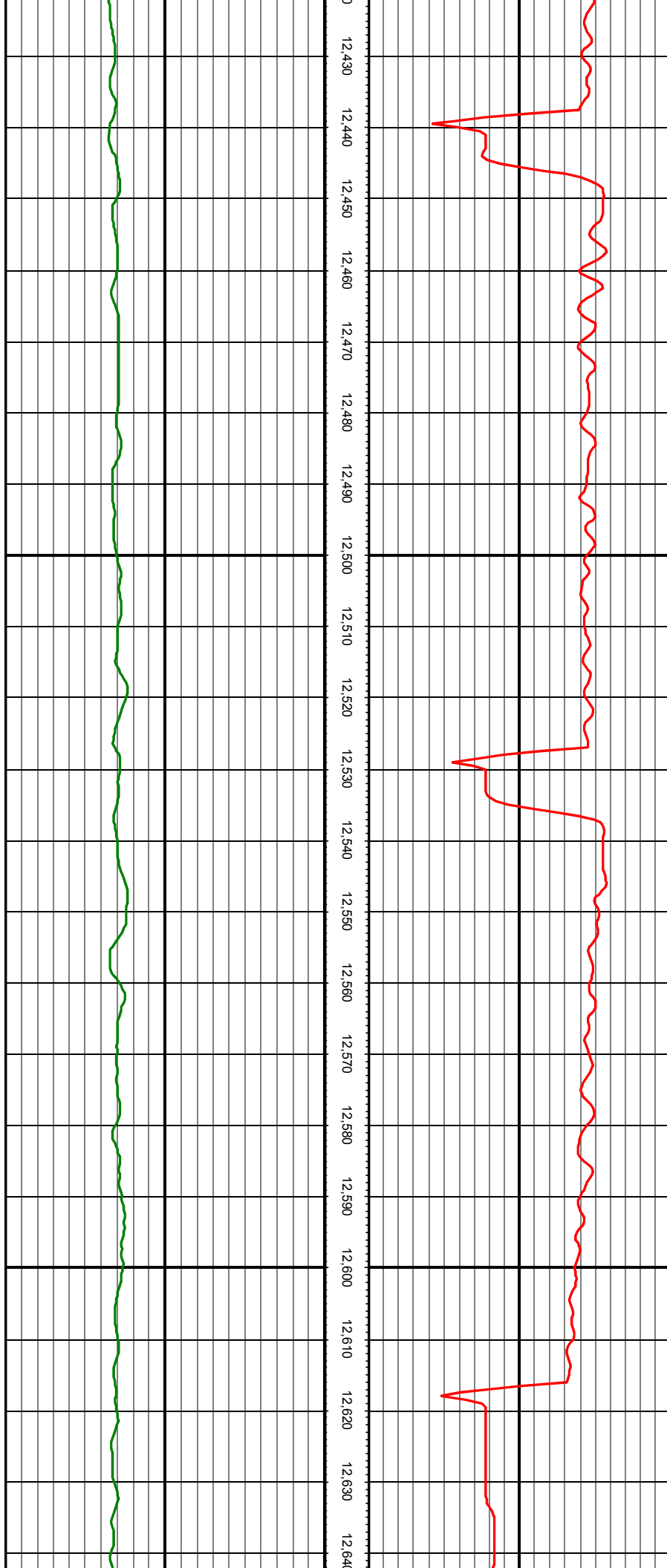
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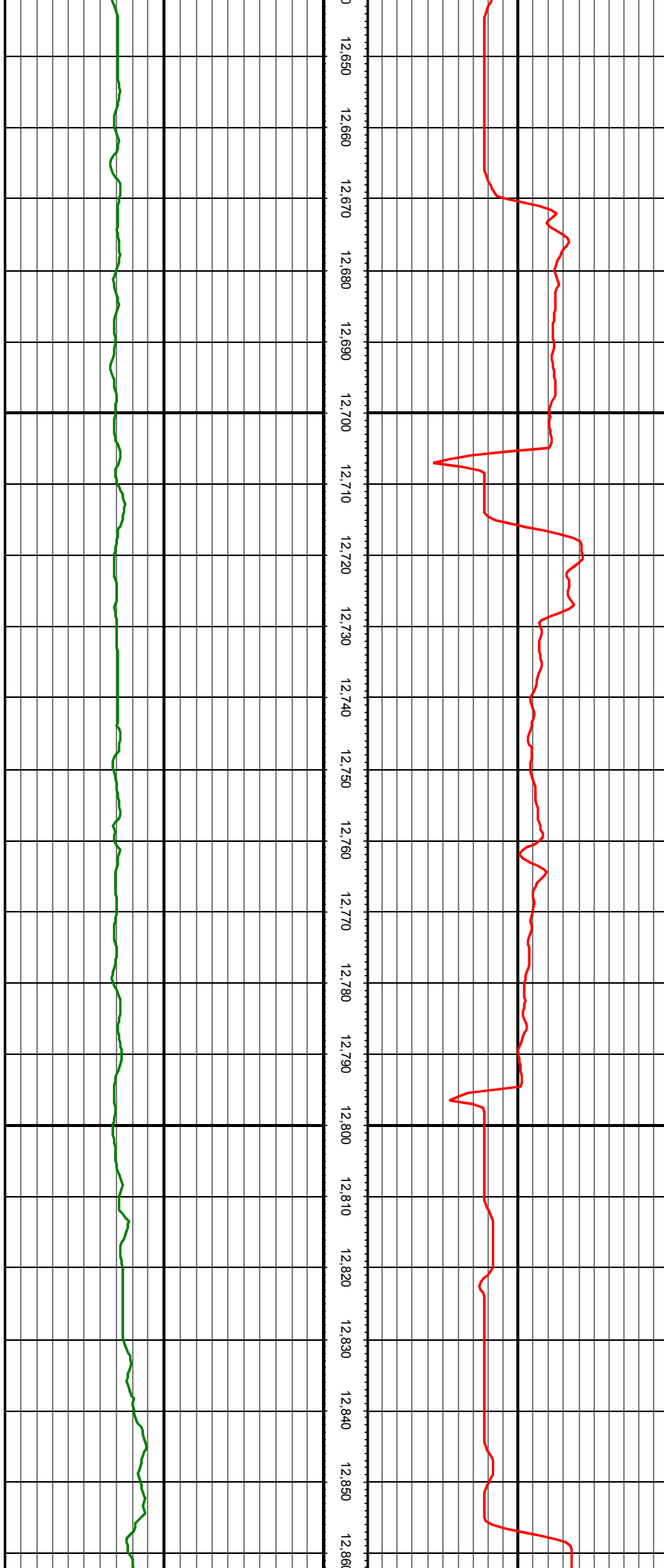


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MD: 12538.00 INC: 89.85 AZ: 182.71 TVD: 7959.18 VS: 3969.18

MD: 12627.00 INC: 89.36 AZ: 182.45 TVD: 7959.79 VS: 4057.59



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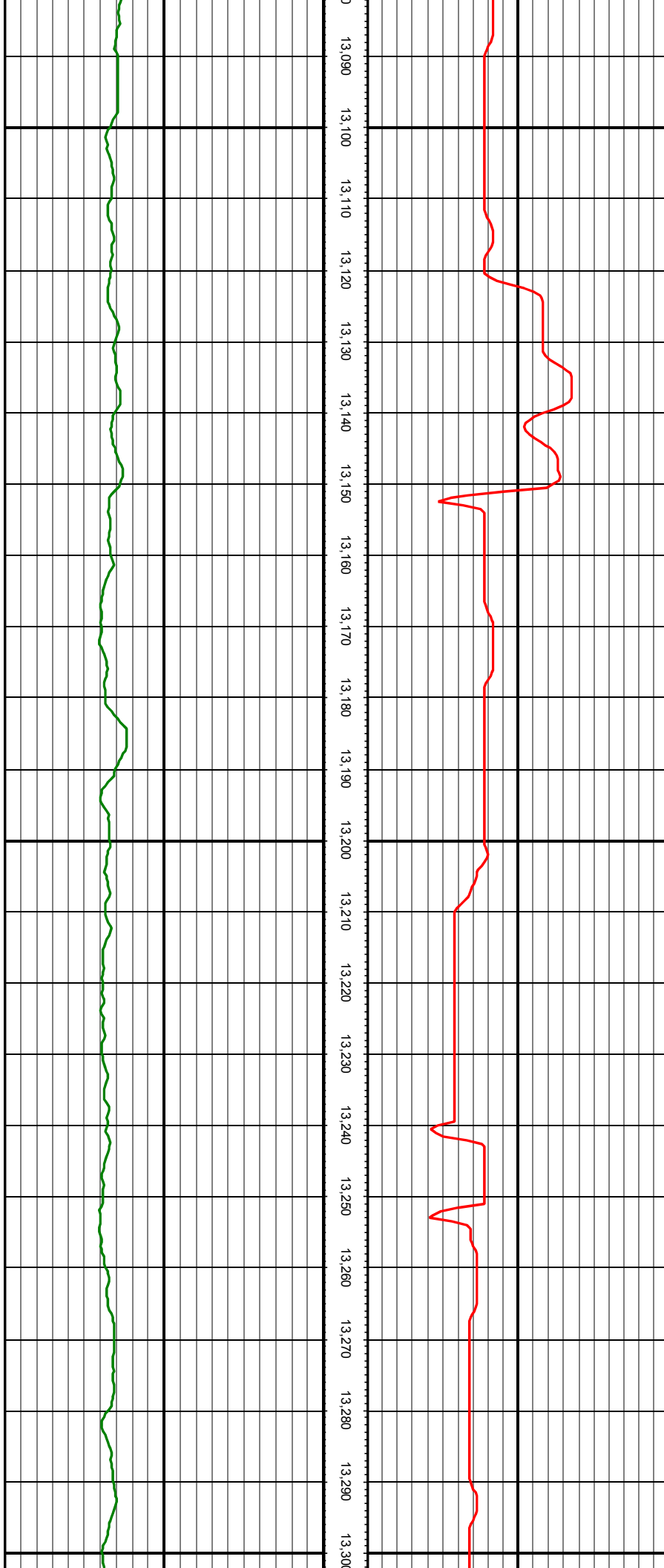
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MD: 12984.00 INC: 91.25 AZ: 181.31 TVD: 7960.16 VS: 4412.49

MD: 13073.00 INC: 92.22 AZ: 179.55 TVD: 7957.46 VS: 4501.18



MD: 13162.00 INC: 92.57 AZ: 178.06 TVD: 7953.75 VS: 4589.99

MD: 13251.00 INC: 92.44 AZ: 177.18 TVD: 7949.86 VS: 4678.87

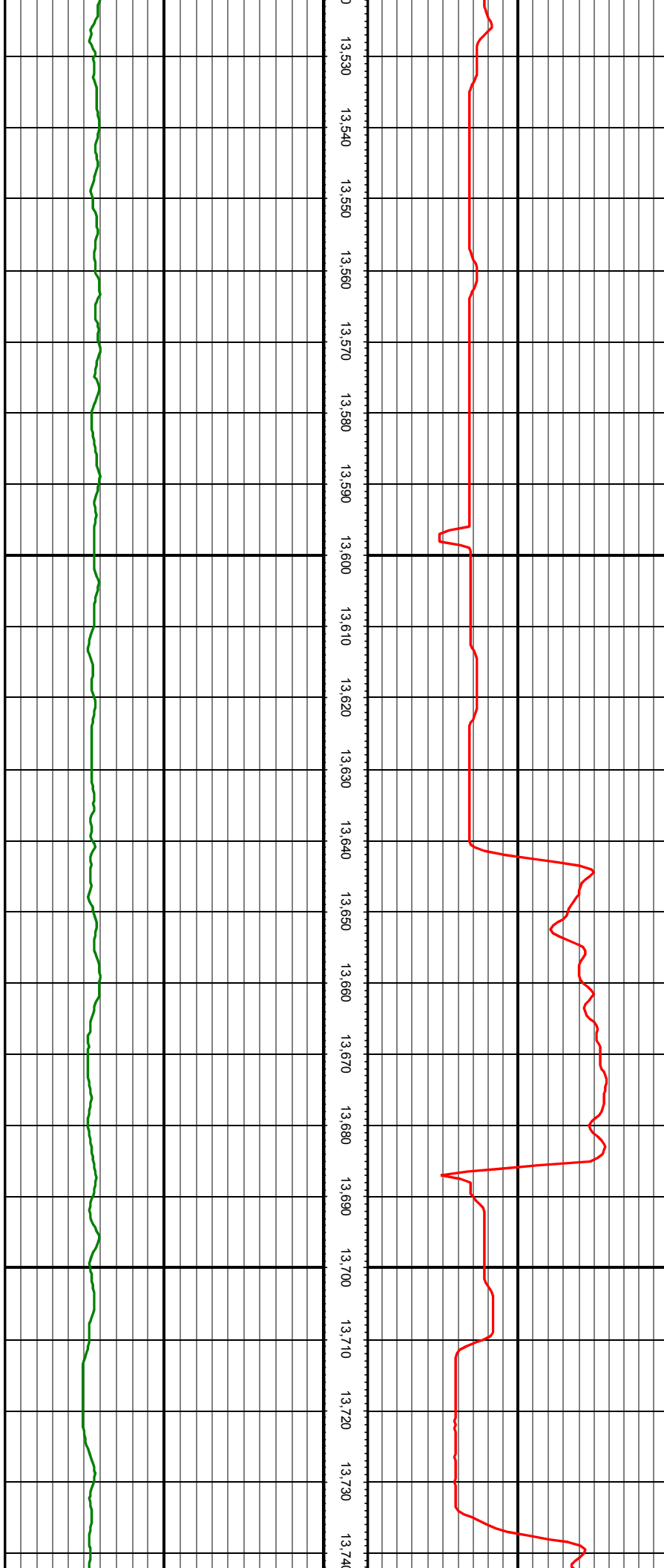


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13520

MD: 13340.00 INC: 91.38 AZ: 176.30 TVD: 7946.89 VS: 4767.81

MD: 13429.00 INC: 91.21 AZ: 175.77 TVD: 7944.88 VS: 4856.79

MD: 13518.00 INC: 90.81 AZ: 175.07 TVD: 7943.31 VS: 4945.77



MD: 13607.00 INC: 89.14 AZ: 173.40 TVD: 7943.35 VS: 5034.72

MD: 13696.00 INC: 89.05 AZ: 172.96 TVD: 7944.75 VS: 5123.60

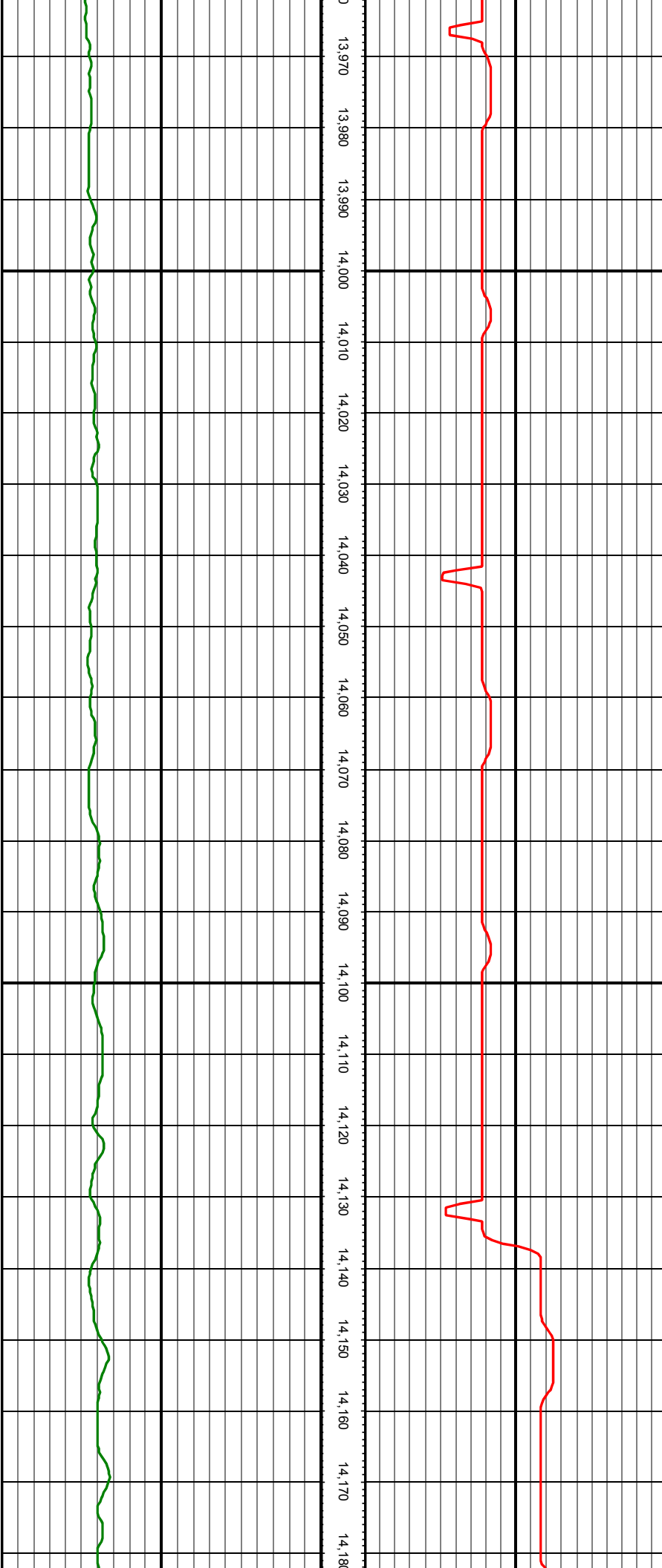


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MD: 13875.00 INC: 89.05 AZ: 174.89 TVD: 7947.50 VS: 5302.44

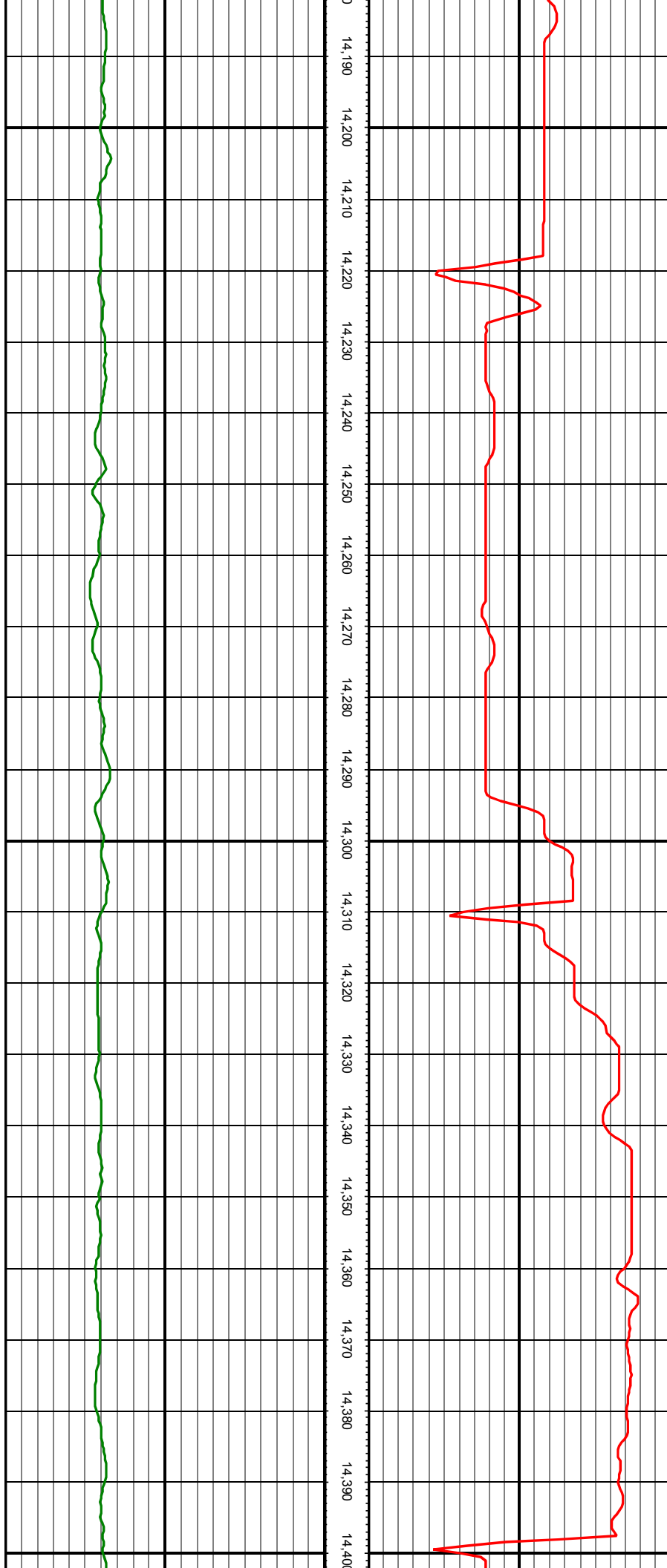
MD: 13964.00 INC: 89.32 AZ: 176.47 TVD: 7948.77 VS: 5391.42



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MD: 14053.00 INC: 89.10 AZ: 177.97 TVD: 7950.00 VS: 5480.39

MD: 14142.00 INC: 89.41 AZ: 179.81 TVD: 7951.15 VS: 5569.27



14,190 14,200 14,210 14,220 14,230 14,240 14,250 14,260 14,270 14,280 14,290 14,300 14,310 14,320 14,330 14,340 14,350 14,360 14,370 14,380 14,390 14,400

MD: 14231.00 INC: 89.93 AZ: 181.92 TVD: 7951.67 VS: 5657.94

MD: 14320.00 INC: 90.02 AZ: 182.19 TVD: 7951.70 VS: 5746.45

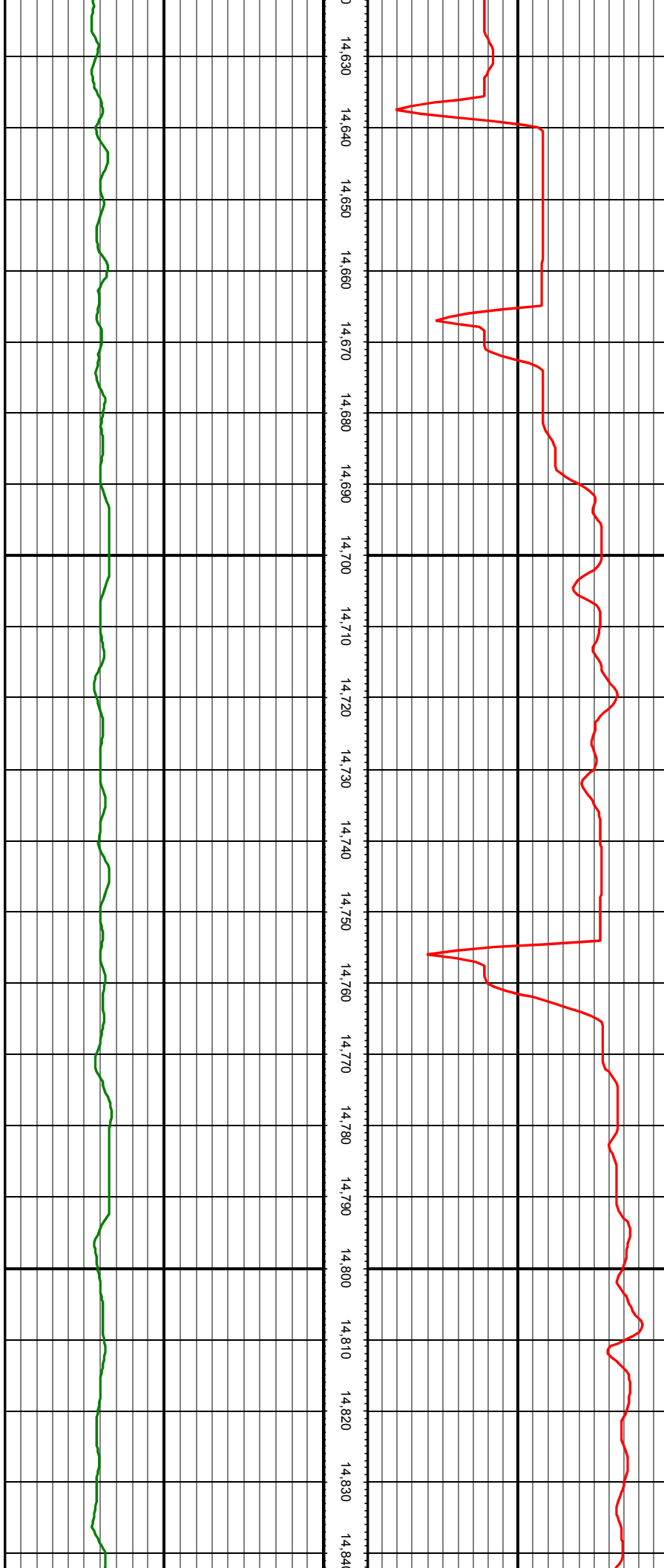
MD: 14409.00 INC: 90.33 AZ: 181.75 TVD: 7951.43 VS: 5834.97



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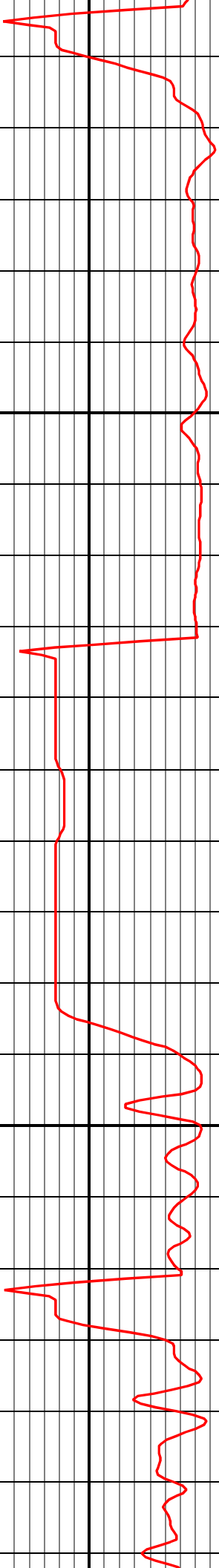
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MD: 14677.00 INC: 88.70 AZ: 179.73 TVD: 7954.66 VS: 6102.22

MD: 14766.00 INC: 88.92 AZ: 180.52 TVD: 7956.51 VS: 6190.97

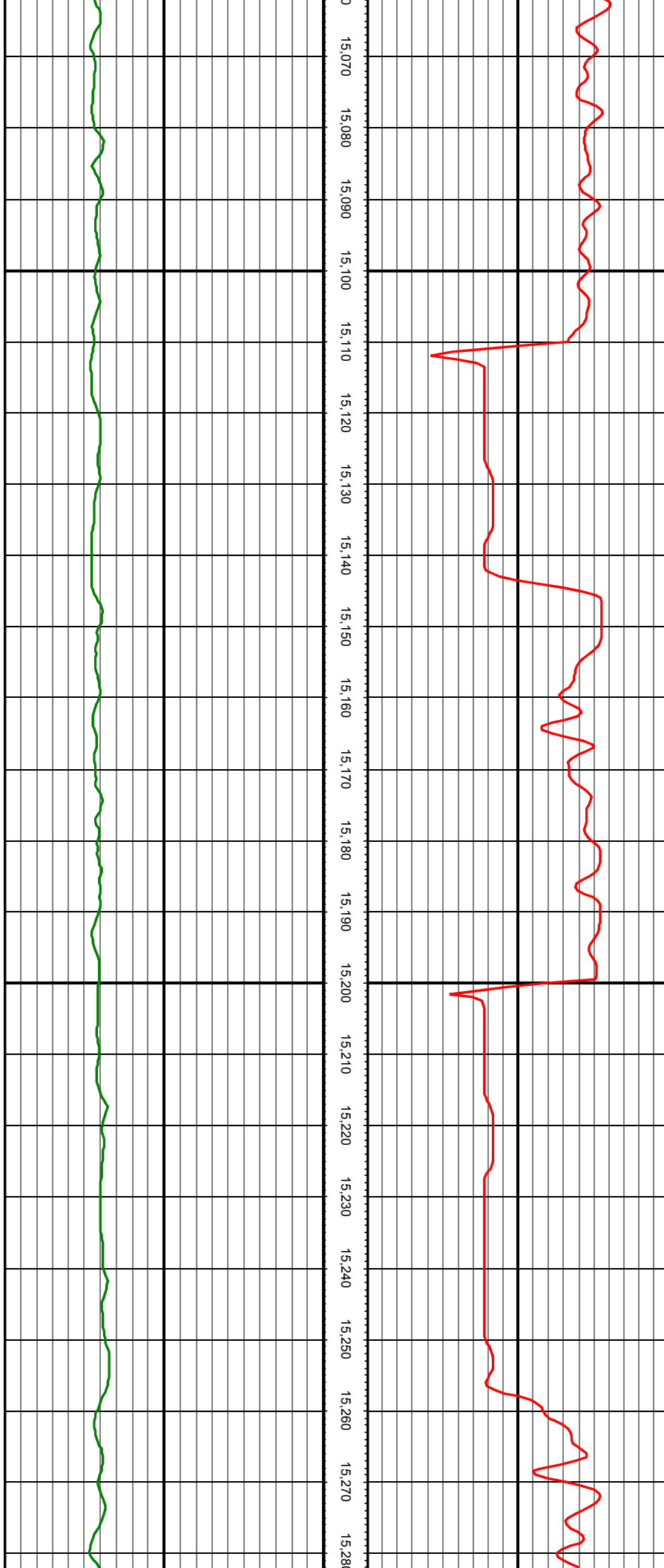
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15 040
15 050
15 060



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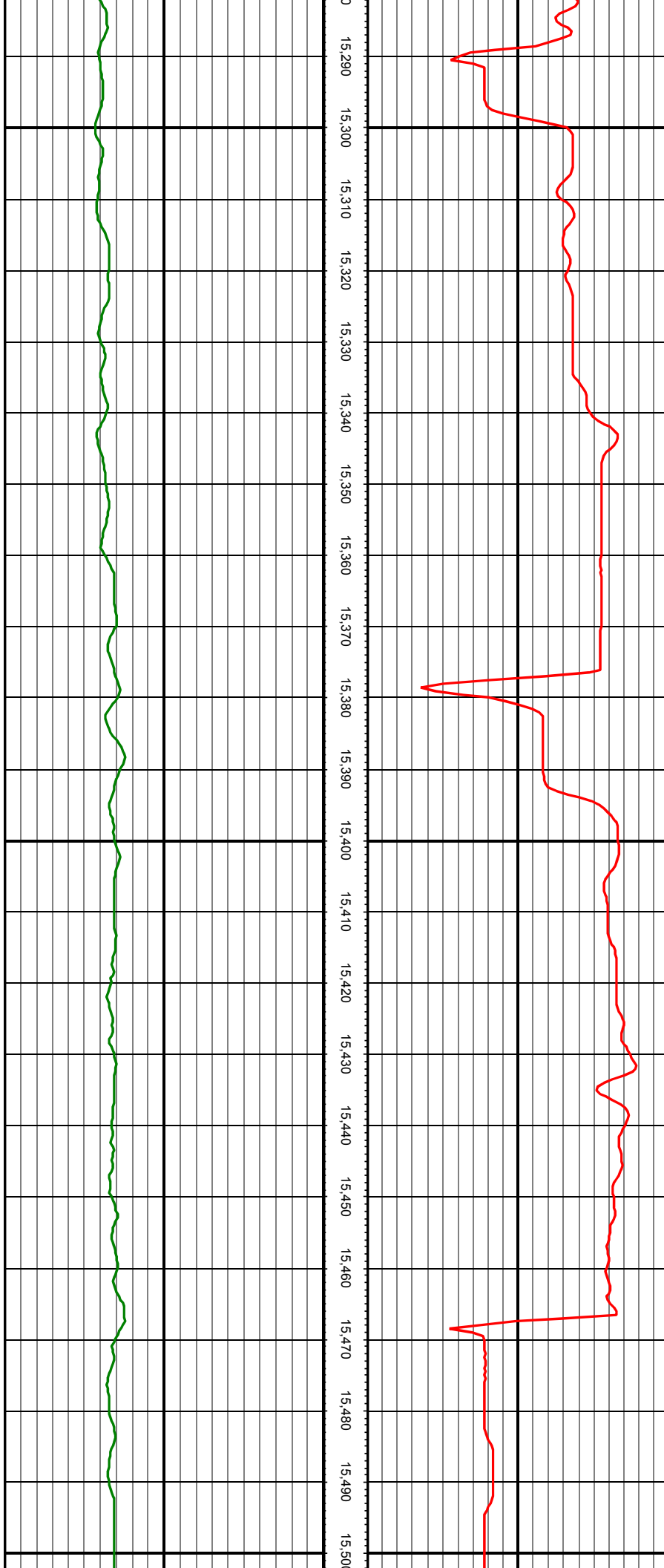
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MD: 15033.00 INC: 89.71 AZ: 182.36 TVD: 7958.40 VS: 6456.66



MD: 15122.00 INC: 88.48 AZ: 181.31 TVD: 7959.80 VS: 6545.18

MD: 15211.00 INC: 87.52 AZ: 181.05 TVD: 7962.91 VS: 6633.77

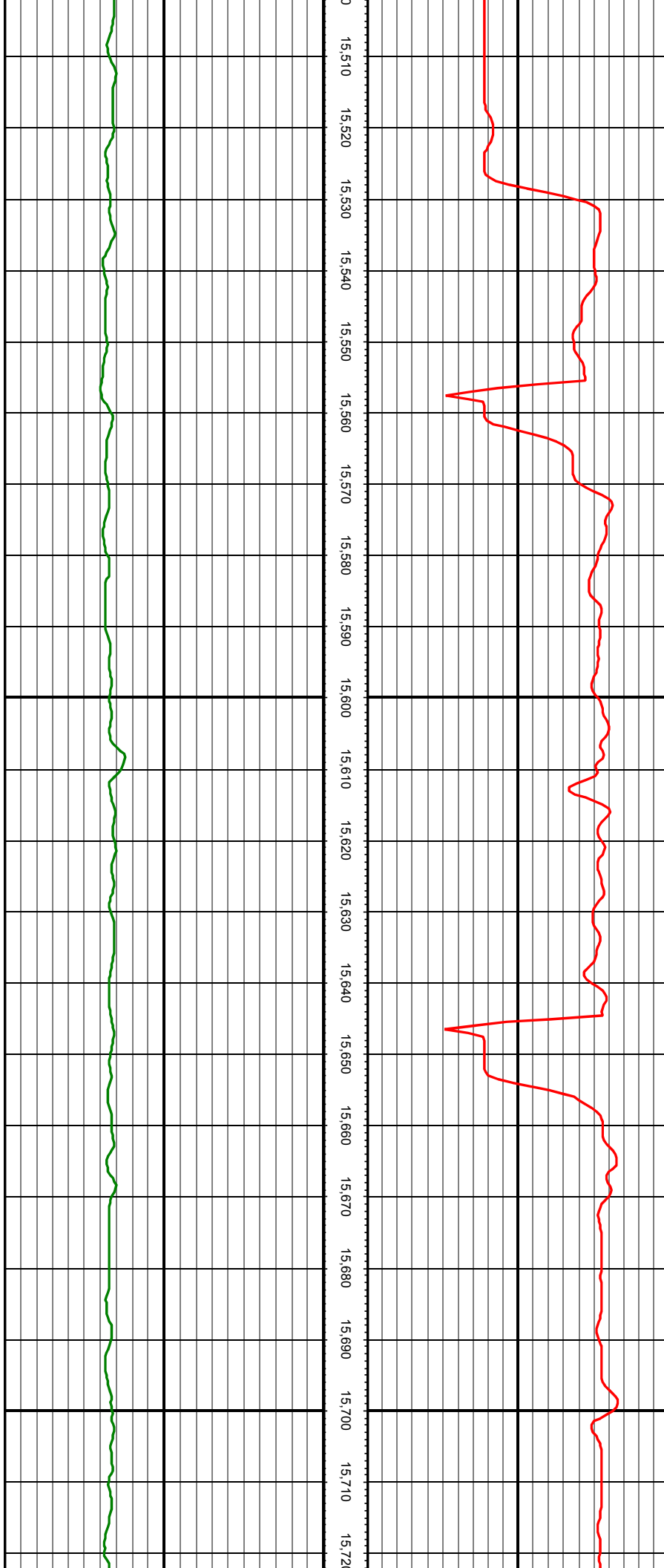


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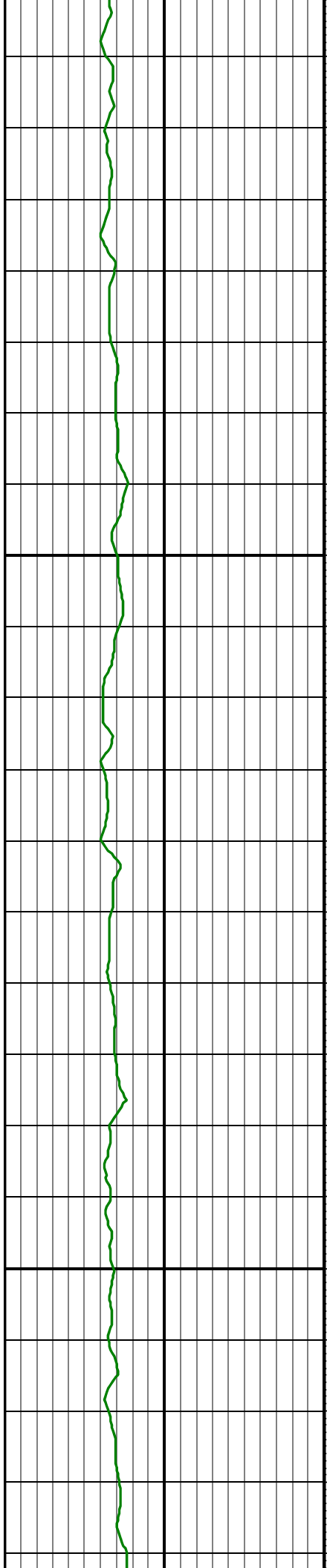
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MD: 15478.00 INC: 88.31 AZ: 180.96 TVD: 7972.30 VS: 6899.65

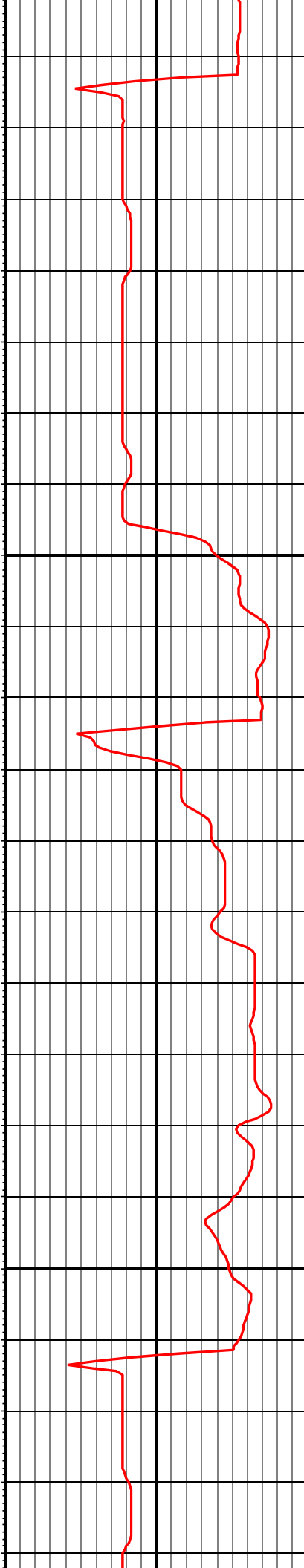


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MD: 15657.00 INC: 88.40 AZ: 180.25 TVD: 7978.05 VS: 7077.98



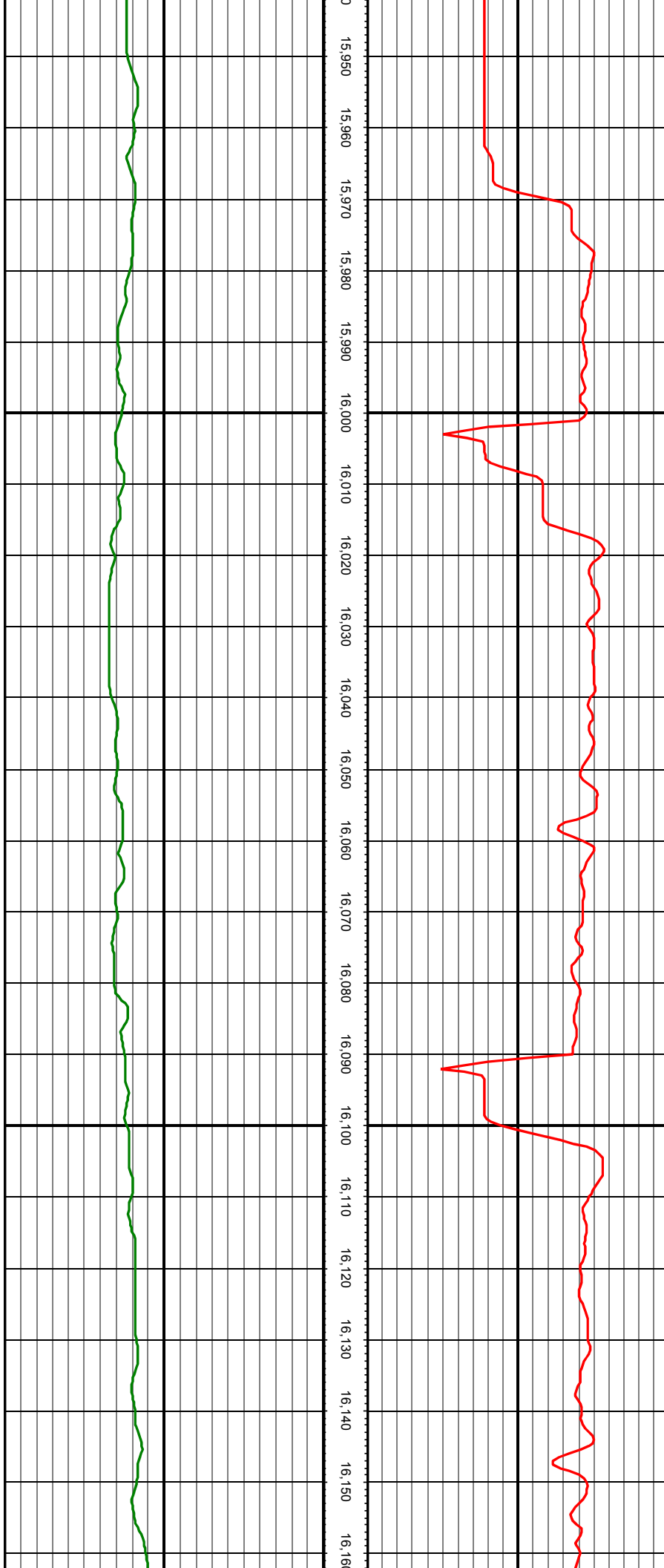
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MD: 15746.00 INC: 88.04 AZ: 180.43 TVD: 7980.82 VS: 7166.69

MD: 15835.00 INC: 87.91 AZ: 180.25 TVD: 7983.96 VS: 7255.38

MD: 15924.00 INC: 88.26 AZ: 180.87 TVD: 7986.94 VS: 7344.05



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MD: 16013.00 INC: 88.09 AZ: 181.22 TVD: 7989.77 VS: 7432.66

MD: 16102.00 INC: 88.04 AZ: 181.57 TVD: 7992.78 VS: 7521.22



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MD: 16280.00 INC: 88.53 AZ: 183.07 TVD: 7998.20 VS: 7698.09

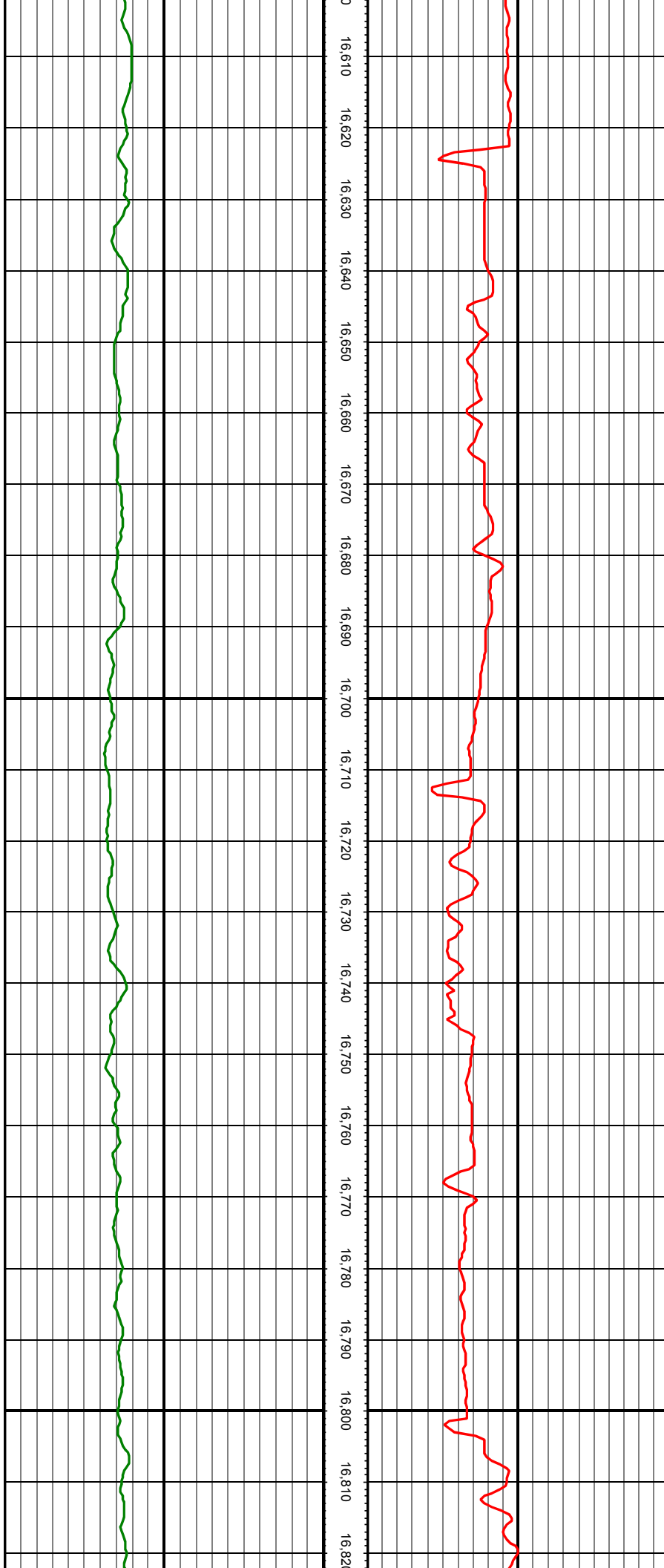
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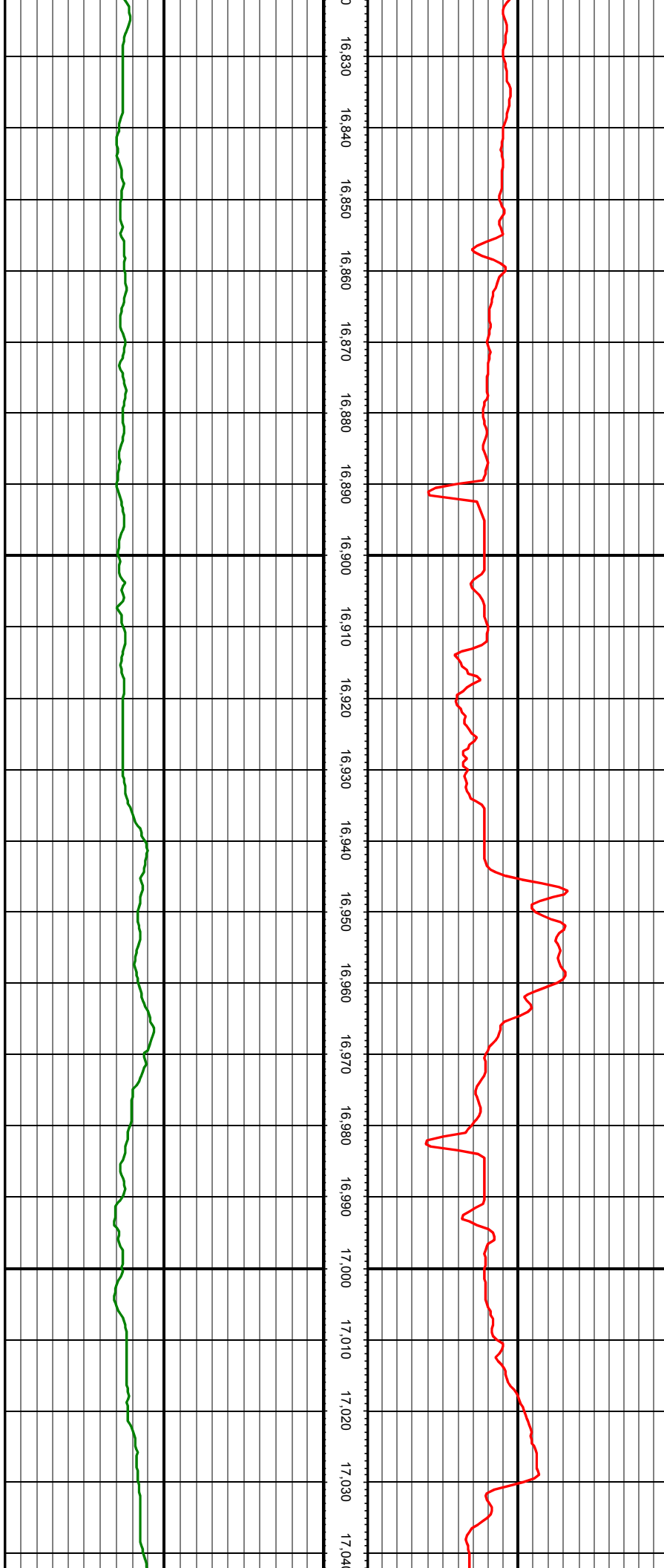
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MD: 16637.00 INC: 89.05 AZ: 183.51 TVD: 8005.81 VS: 8052.08

MD: 16726.00 INC: 90.02 AZ: 183.86 TVD: 8006.53 VS: 8140.28

MD: 16815.00 INC: 90.55 AZ: 182.98 TVD: 8006.09 VS: 8228.53



MD: 16904.00 INC: 91.03 AZ: 181.84 TVD: 8004.86 VS: 8316.97

MD: 16993.00 INC: 91.47 AZ: 180.78 TVD: 8002.92 VS: 8405.57



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MD: 17083.00 INC: 92.44 AZ: 180.25 TVD: 7999.85 VS: 8495.24

MD: 17171.00 INC: 92.75 AZ: 179.81 TVD: 7995.86 VS: 8582.93

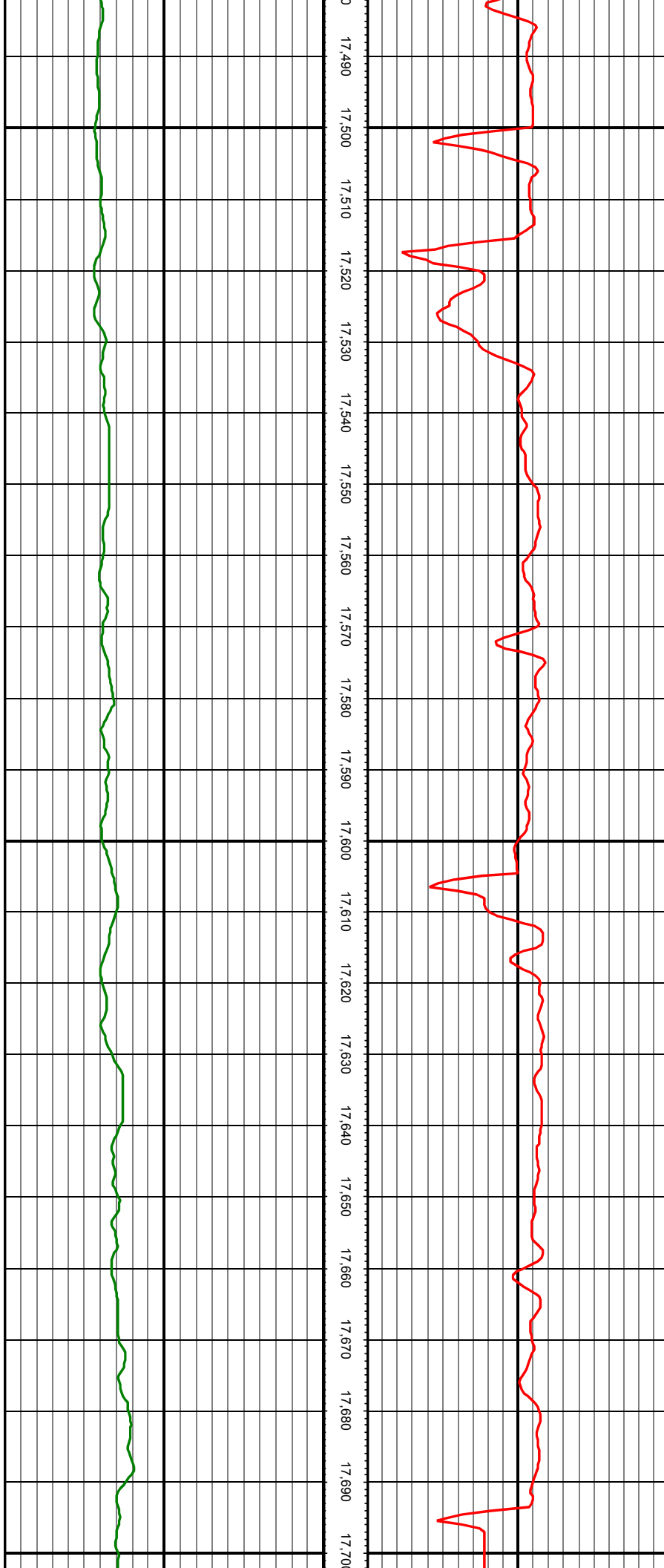
MD: 17261.00 INC: 92.44 AZ: 179.20 TVD: 7991.79 VS: 8672.67



17 270 17 280 17 290 17 300 17 310 17 320 17 330 17 340 17 350 17 360 17 370 17 380 17 390 17 400 17 410 17 420 17 430 17 440 17 450 17 460 17 470 17 480

MD: 17350.00 INC: 90.59 AZ: 178.14 TVD: 7989.44 VS: 8761.54

MD: 17439.00 INC: 88.13 AZ: 176.74 TVD: 7990.43 VS: 8850.50



MD: 17528.00 INC: 87.60 AZ: 176.12 TVD: 7993.75 VS: 8939.44

MD: 17617.00 INC: 87.60 AZ: 175.95 TVD: 7997.47 VS: 9028.36

