



Cathedral Energy Services

4701 United Drive
Oklahoma City, OK 73179
405-261-6011 (Office)
405-261-6188 (Fax)

Raindance FC-23-232HN

Scale 5":100' - MD

1/26/2022 5:58 PM

Oper. Company: Great Western Operating Company, LLC

Well: Raindance FC-23-232HN

Field: DJ Basin

Rig: Precision #462

Well ID: 123-51581

Job Number: 217115

Logging Star: 2047'

Logging End Depth: 21273'

Notes: Gamma Ray Log
Section Plan: 282.59°
Magnetic North: 8.0°

State: CO

County: Weld

Country: USA

Location: SEC 30-T6N-R67W

Start Date: 09/22/2021 00:00:00

End Date: 10/02/2021 00:00:00

Latitude: 40.463084

Longitude: -104.927261

Elev GL: 4788

Elev DF: 4808

Elev KB: 4808

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

Operator 1: Simon Jordan

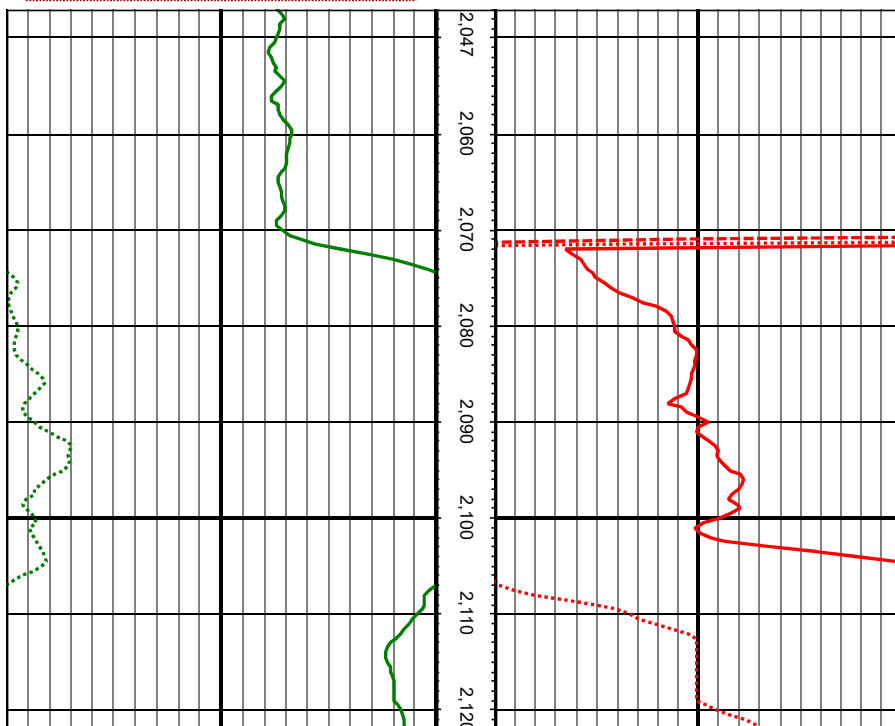
Operator 2: Sean Williams

Notes: Maximum Temperature: 260°F

Hole Data			Casing Data		
Size	From	To	Size	From	To
13.5	0.00	2072.00	9.625	0.00	2072.00
8.5	2072.00	21273.00	5.5	0.00	21273.00

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.

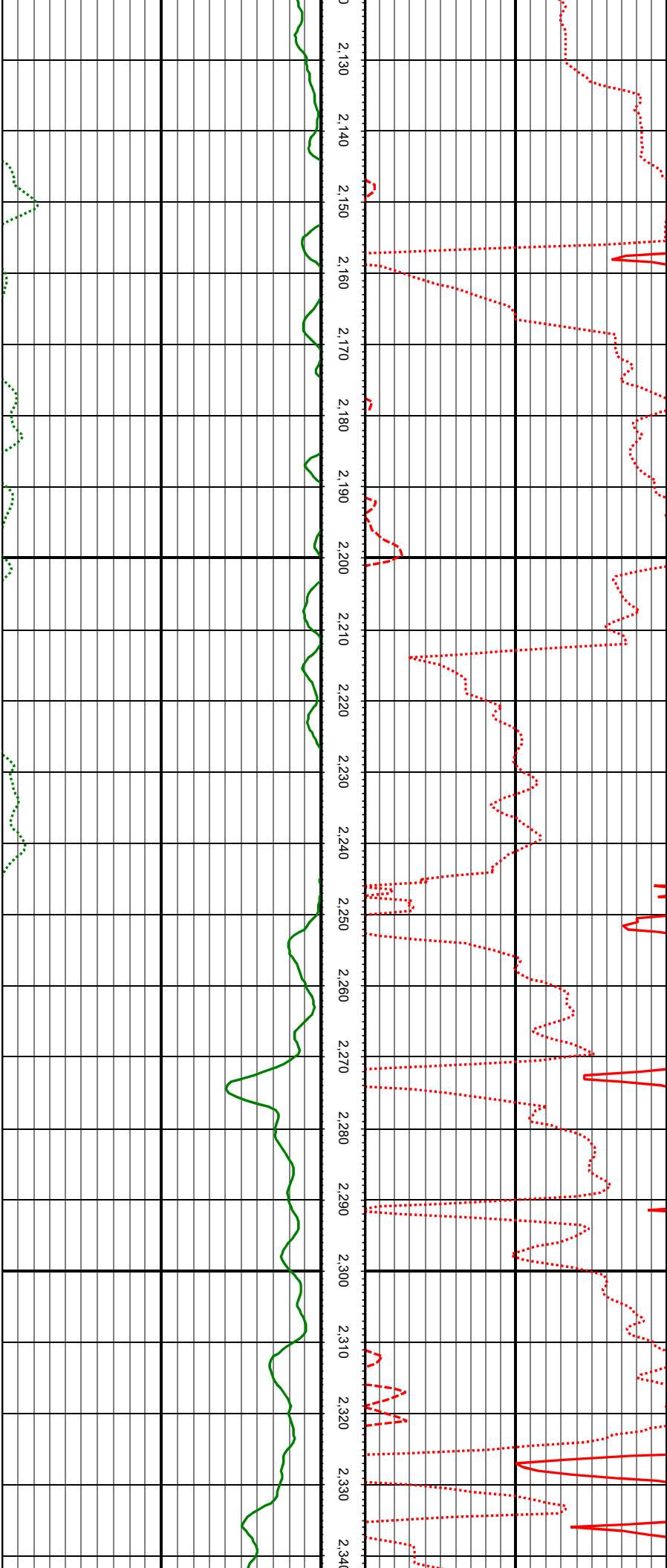
0.00	GR(API)	125.00	MD	0.00	ROP(FT/HR)	300.00	Surveys (MD/INC/AZ/TVD/VS)
125.00	2	250.00	FT	300.00	2	600.00	
0.00	GR Memory()	125.00		600.00	3	900.00	
125.00	2	250.00					

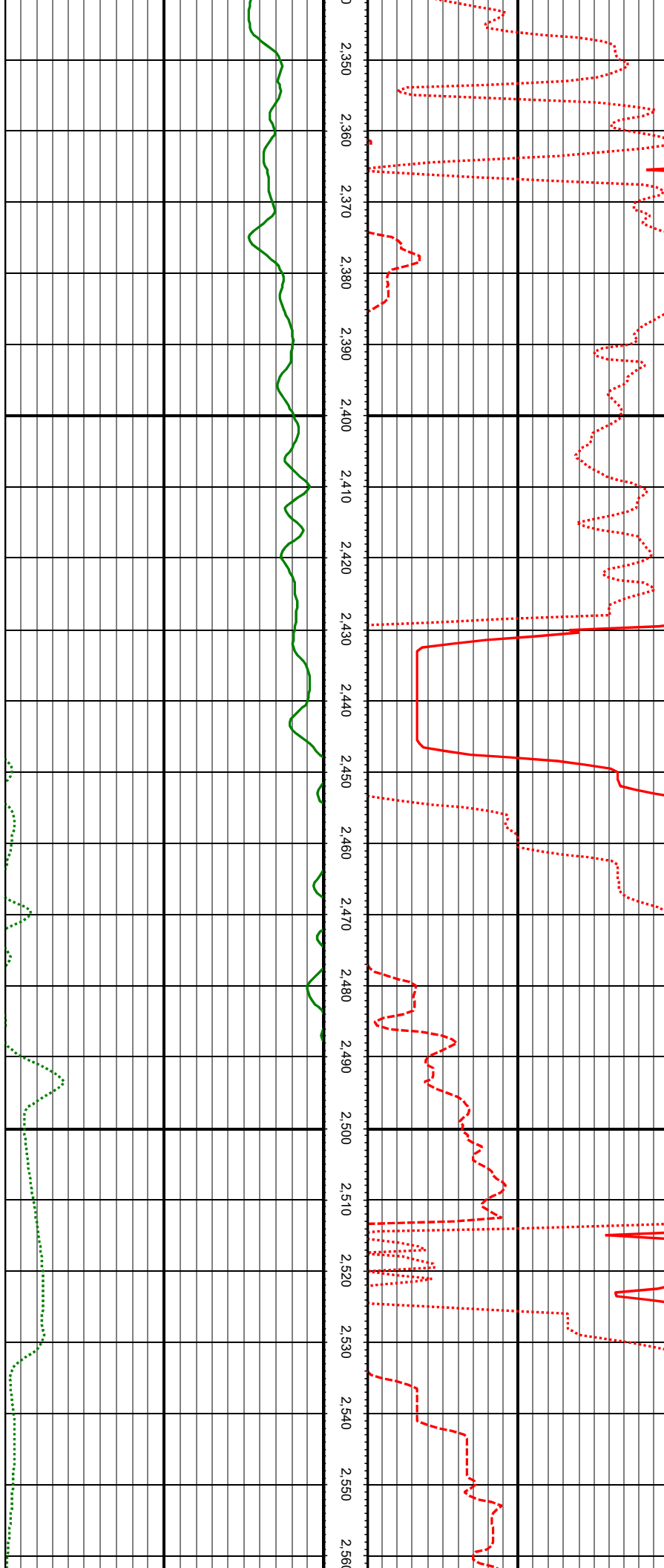


MD: 2129.00 INC: 0.31 AZ: 321.51 TVD: 2128.74 VS: -18.77

MD: 2219.00 INC: 0.22 AZ: 311.14 TVD: 2218.74 VS: -18.43

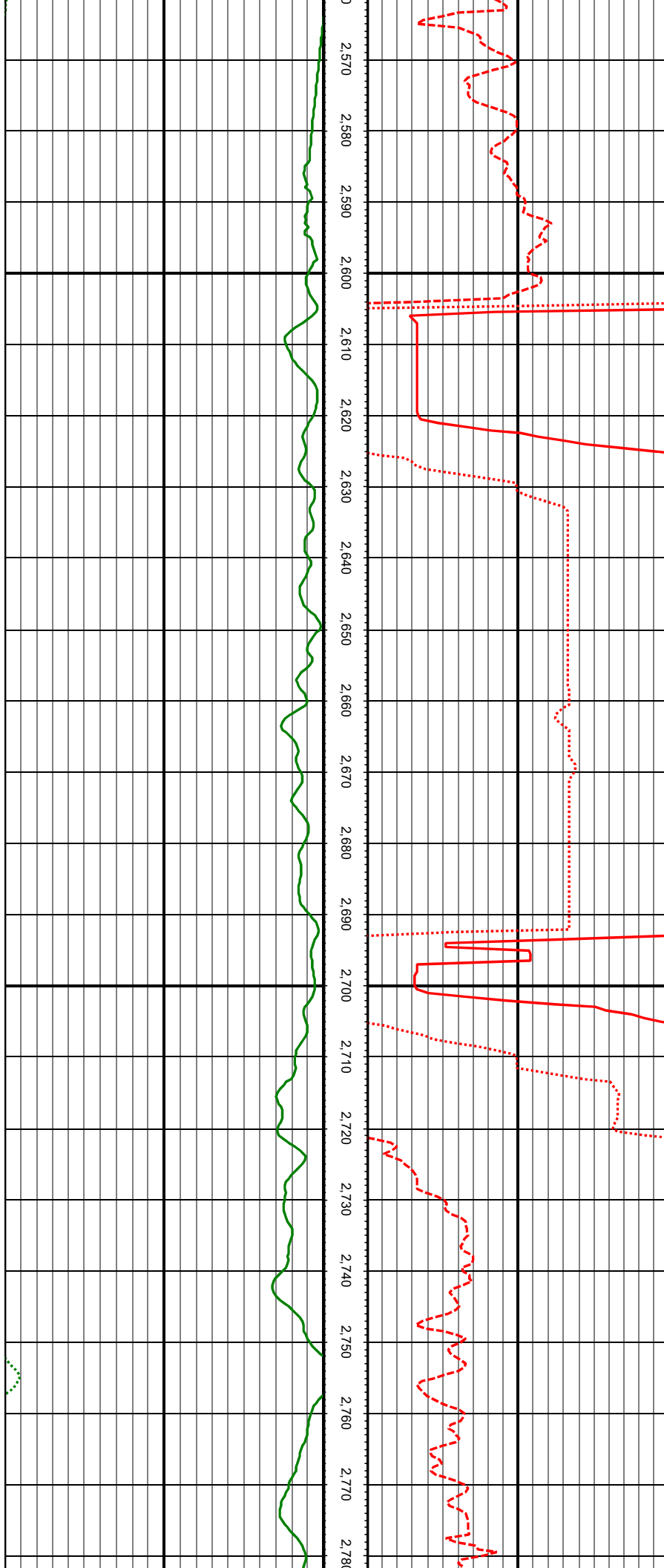
MD: 2309.00 INC: 0.35 AZ: 323.35 TVD: 2308.74 VS: -18.07





MD: 2398.00 INC: 0.44 AZ: 310.52 TVD: 2397.73 VS: -17.56

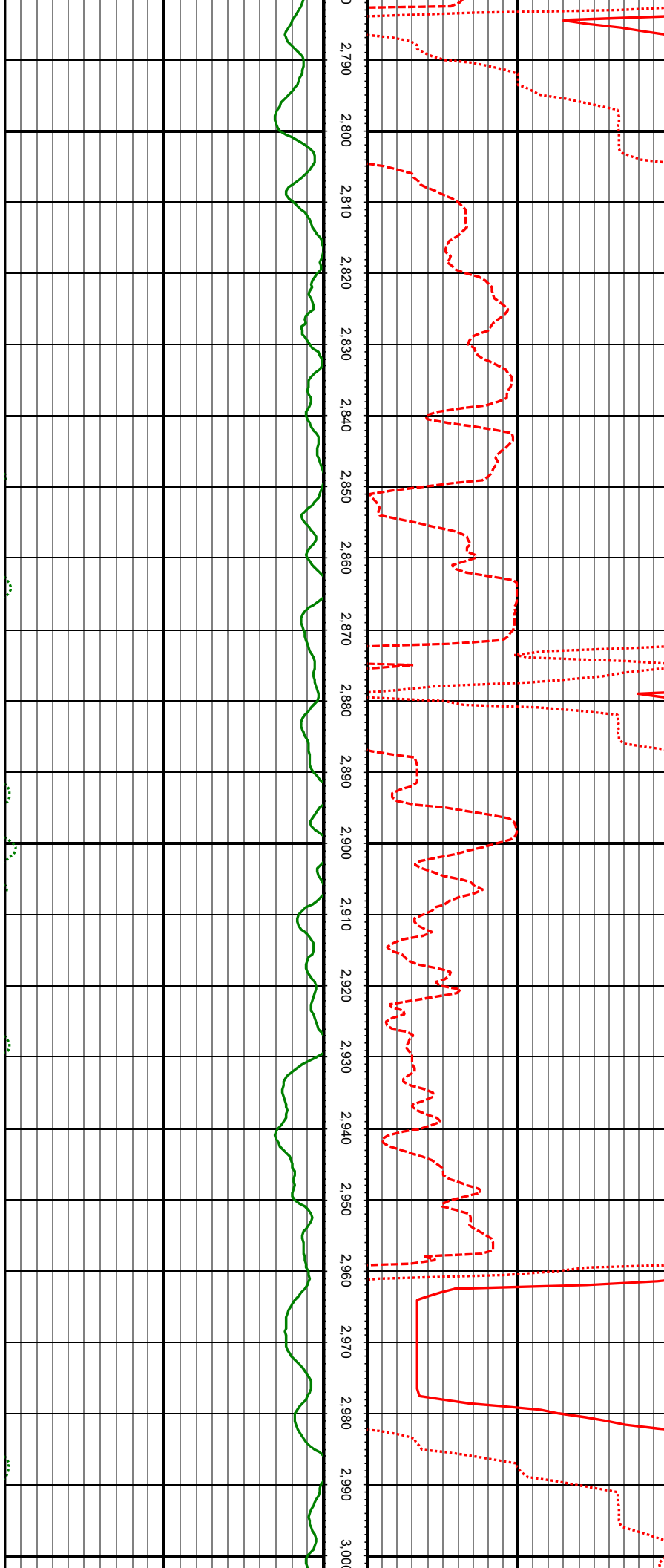
MD: 2488.00 INC: 0.53 AZ: 338.29 TVD: 2487.73 VS: -17.02



MD: 2578.00 INC: 0.66 AZ: 300.68 TVD: 2577.73 VS: -16.30

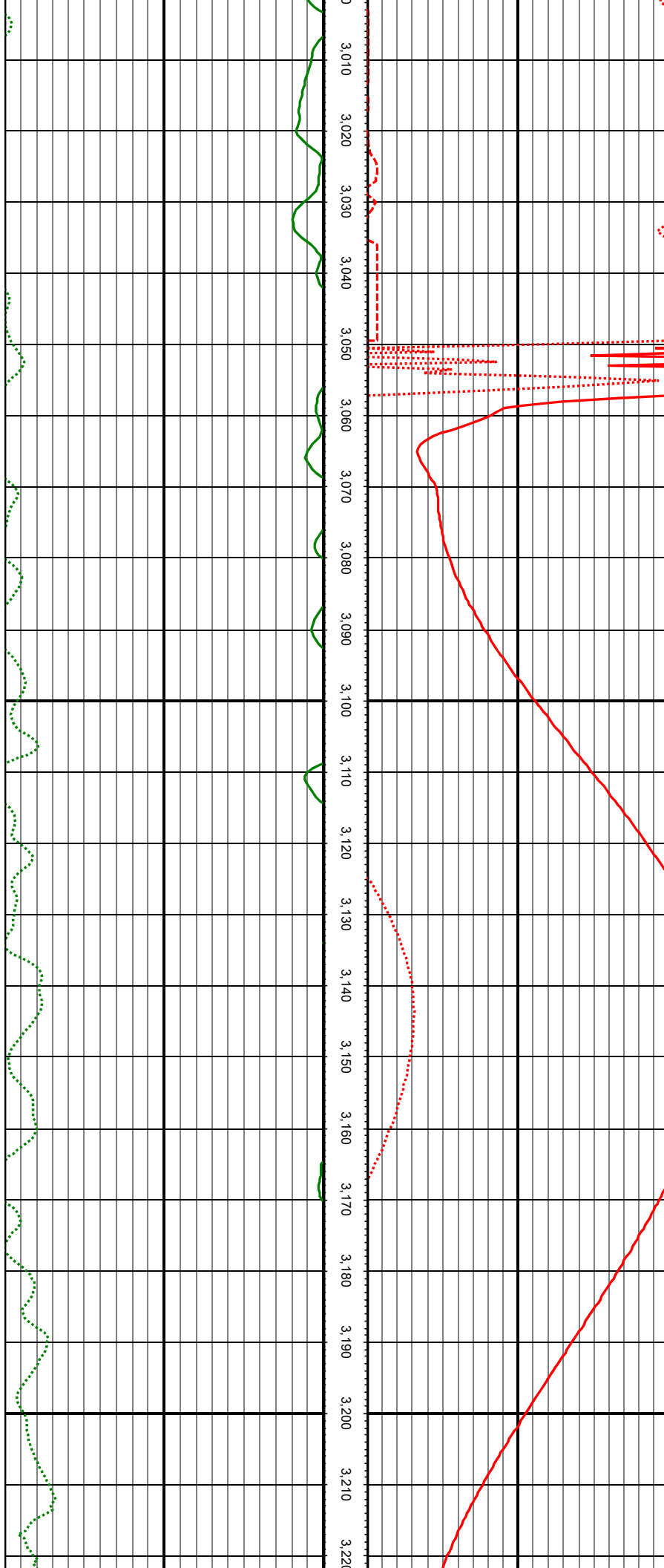
MD: 2667.00 INC: 0.35 AZ: 273.87 TVD: 2666.72 VS: -15.54

MD: 2757.00 INC: 0.88 AZ: 178.77 TVD: 2756.72 VS: -15.43



MD: 2847.00 INC: 1.41 AZ: 172.53 TVD: 2846.70 VS: -15.98

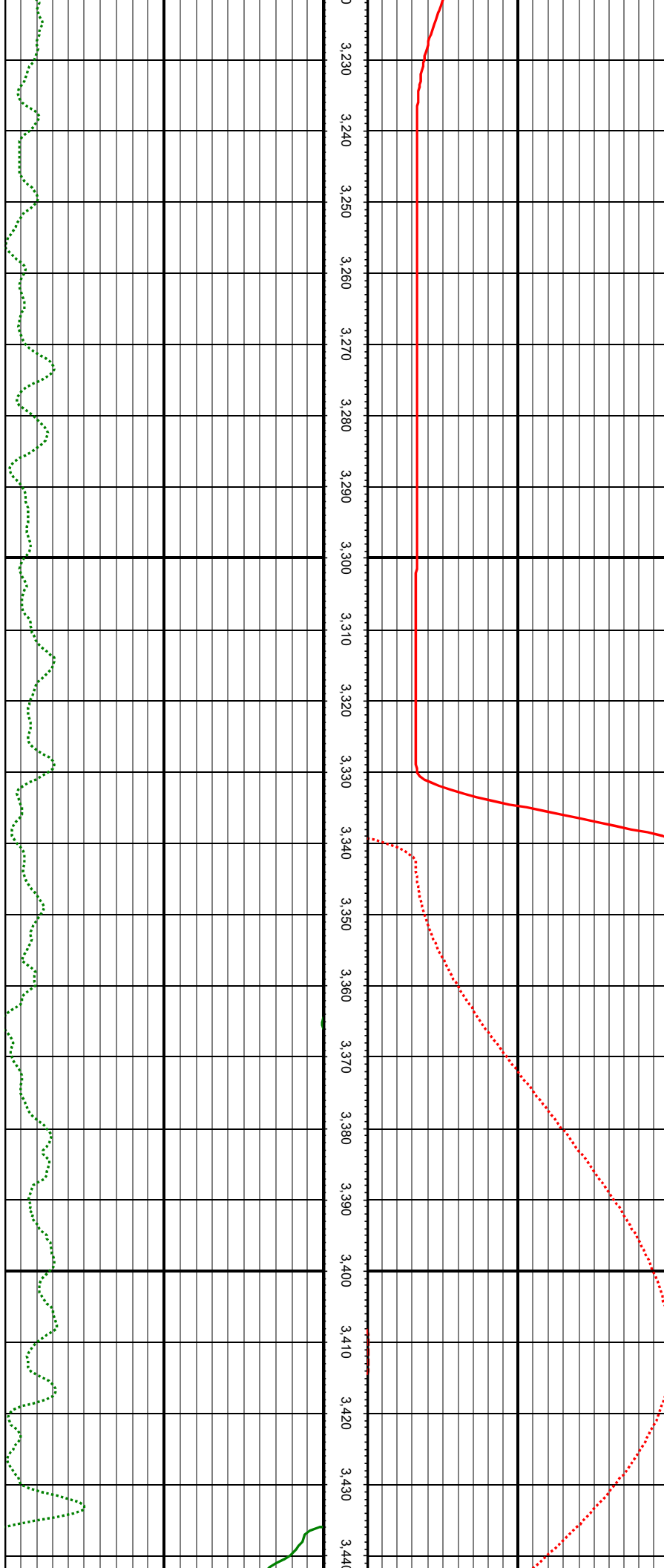
MD: 2937.00 INC: 1.10 AZ: 172.62 TVD: 2936.68 VS: -16.65



MD: 3026.00 INC: 0.53 AZ: 154.87 TVD: 3025.67 VS: -17.20

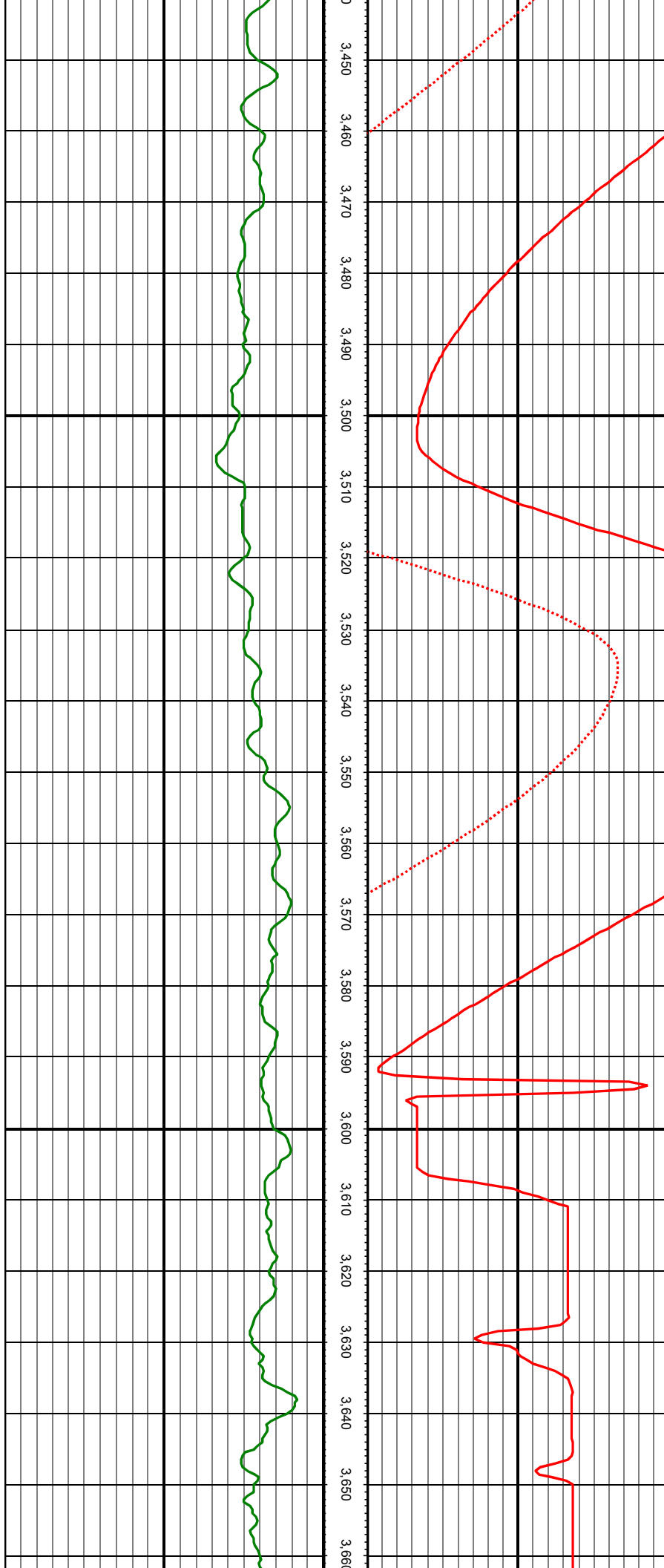
MD: 3116.00 INC: 0.44 AZ: 178.16 TVD: 3115.67 VS: -17.54

MD: 3206.00 INC: 0.70 AZ: 207.51 TVD: 3205.66 VS: -17.48



MD: 3295.00 INC: 0.48 AZ: 217.71 TVD: 3294.66 VS: -17.18

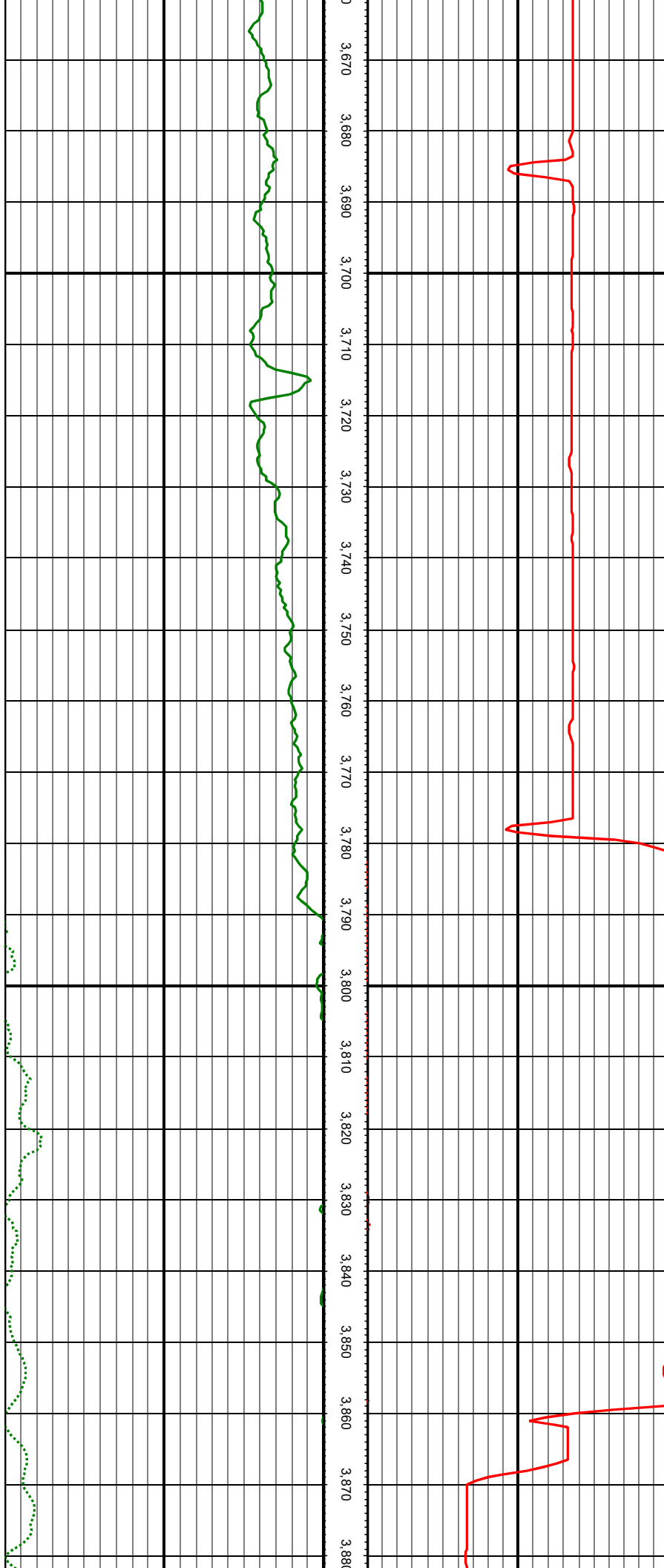
MD: 3385.00 INC: 0.88 AZ: 57.04 TVD: 3384.66 VS: -17.51



MD: 3474.00 INC: 2.86 AZ: 45.71 TVD: 3473.60 VS: -19.20

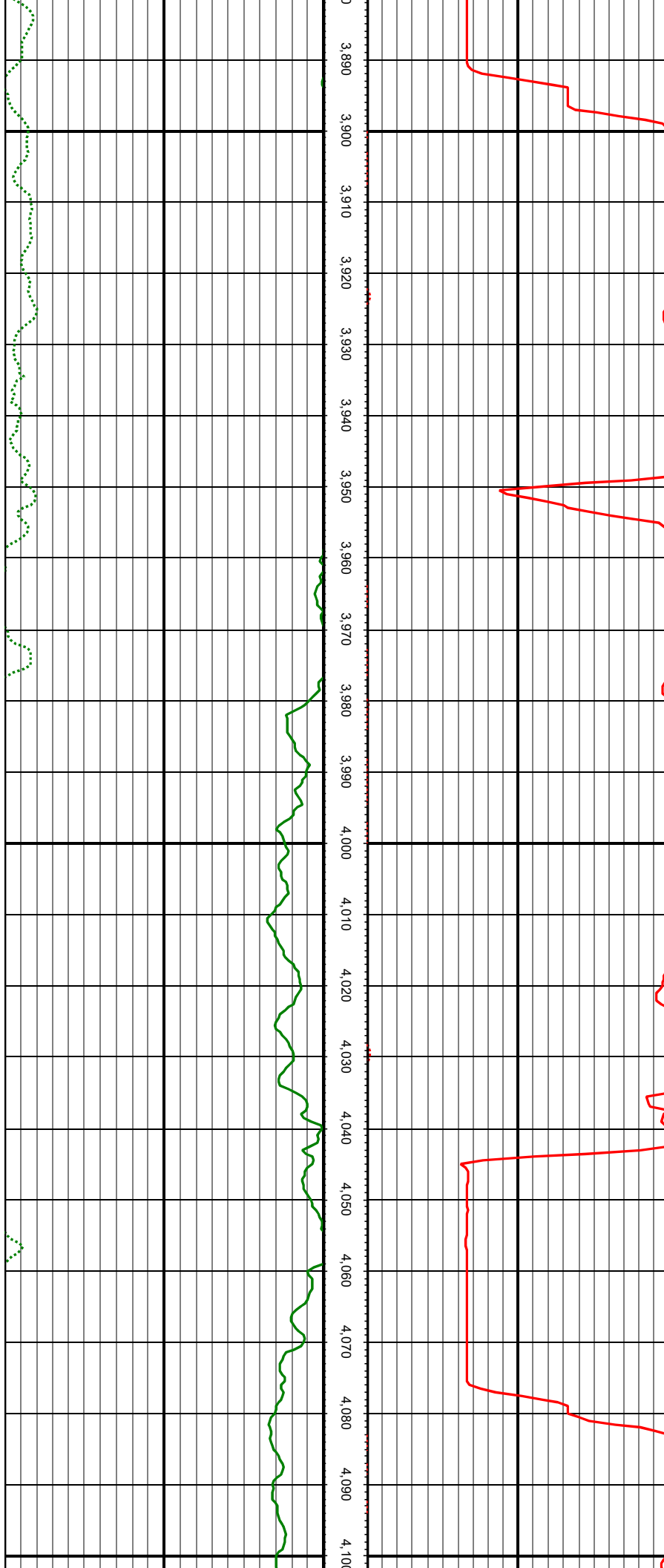
MD: 3564.00 INC: 4.66 AZ: 36.56 TVD: 3563.41 VS: -21.91

MD: 3654.00 INC: 7.47 AZ: 26.02 TVD: 3652.90 VS: -24.76



MD: 3743.00 INC: 12.79 AZ: 20.48 TVD: 3740.48 VS: -27.45

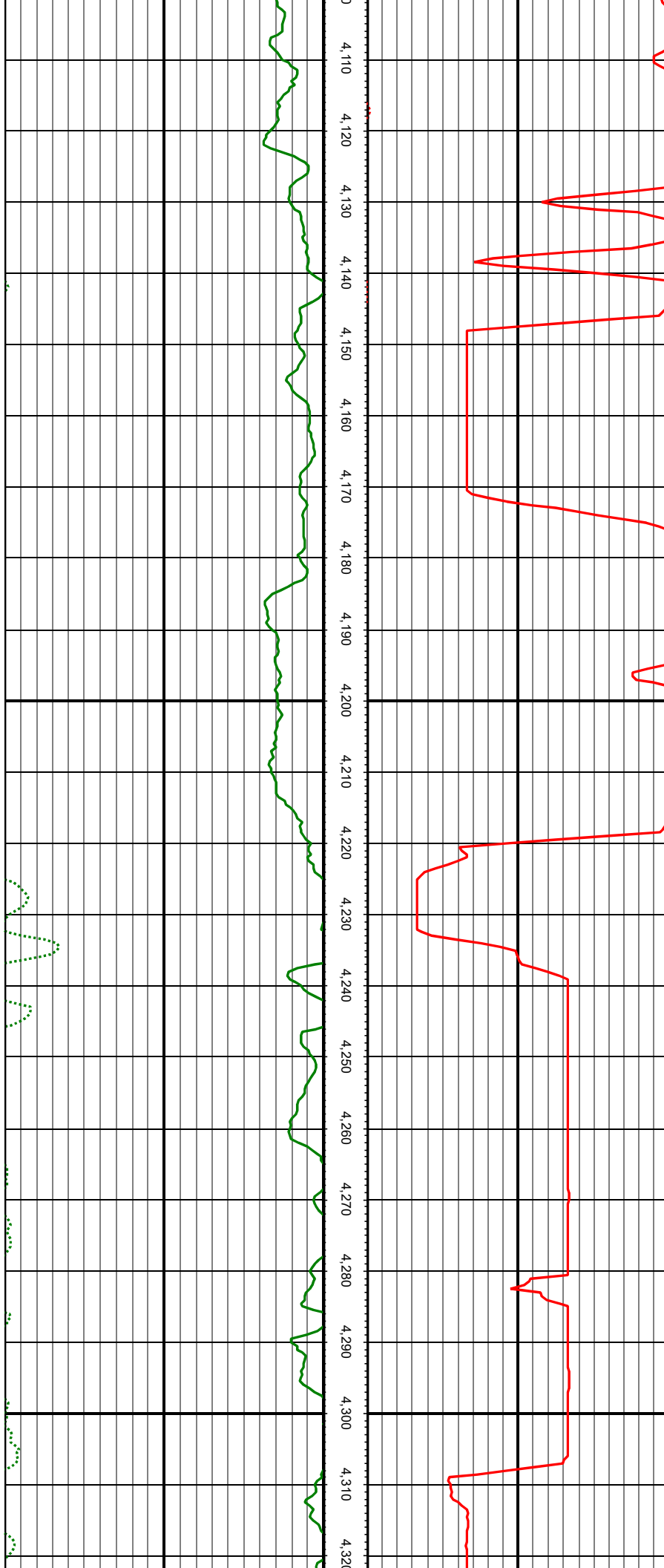
MD: 3832.00 INC: 17.14 AZ: 14.33 TVD: 3826.45 VS: -29.21



MD: 3922.00 INC: 19.69 AZ: 8.79 TVD: 3911.84 VS: -28.60

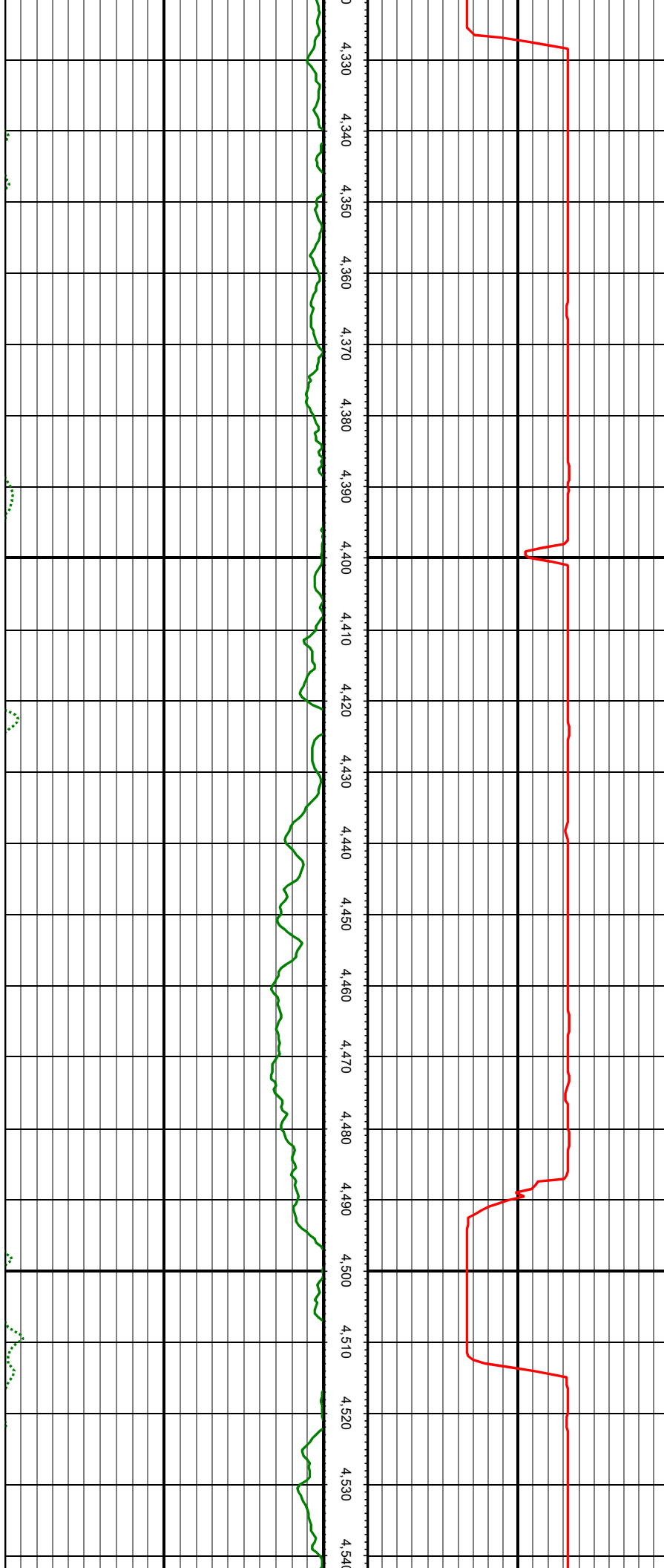
MD: 4012.00 INC: 22.73 AZ: 9.76 TVD: 3995.73 VS: -26.74

MD: 4101.00 INC: 25.71 AZ: 15.38 TVD: 4076.90 VS: -26.83



MD: 4191.00 INC: 25.98 AZ: 24.17 TVD: 4157.93 VS: -31.74

MD: 4280.00 INC: 23.69 AZ: 30.41 TVD: 4238.70 VS: -41.13



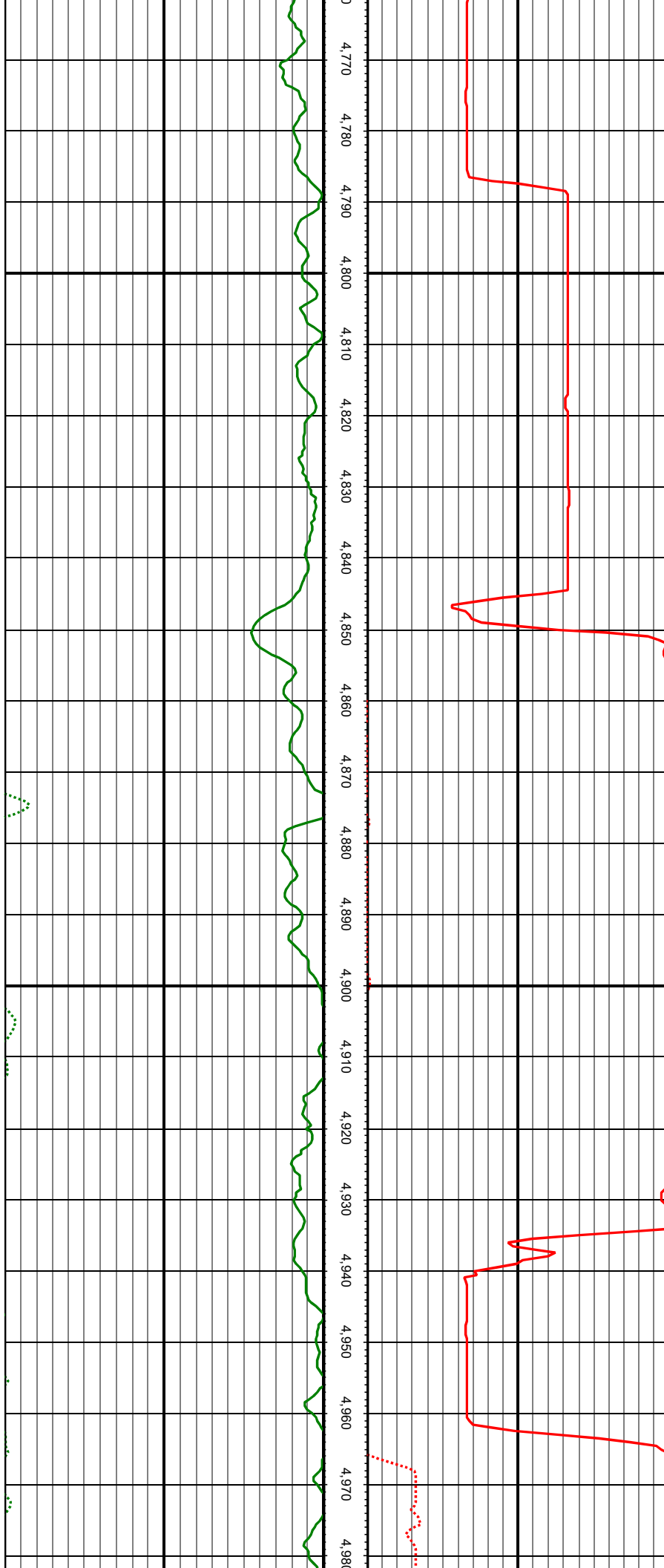
MD: 4369.00 INC: 24.75 AZ: 29.62 TVD: 4319.87 VS: -52.06

MD: 4459.00 INC: 28.62 AZ: 25.14 TVD: 4400.28 VS: -62.26

MD: 4549.00 INC: 32.57 AZ: 21.01 TVD: 4477.74 VS: -70.50

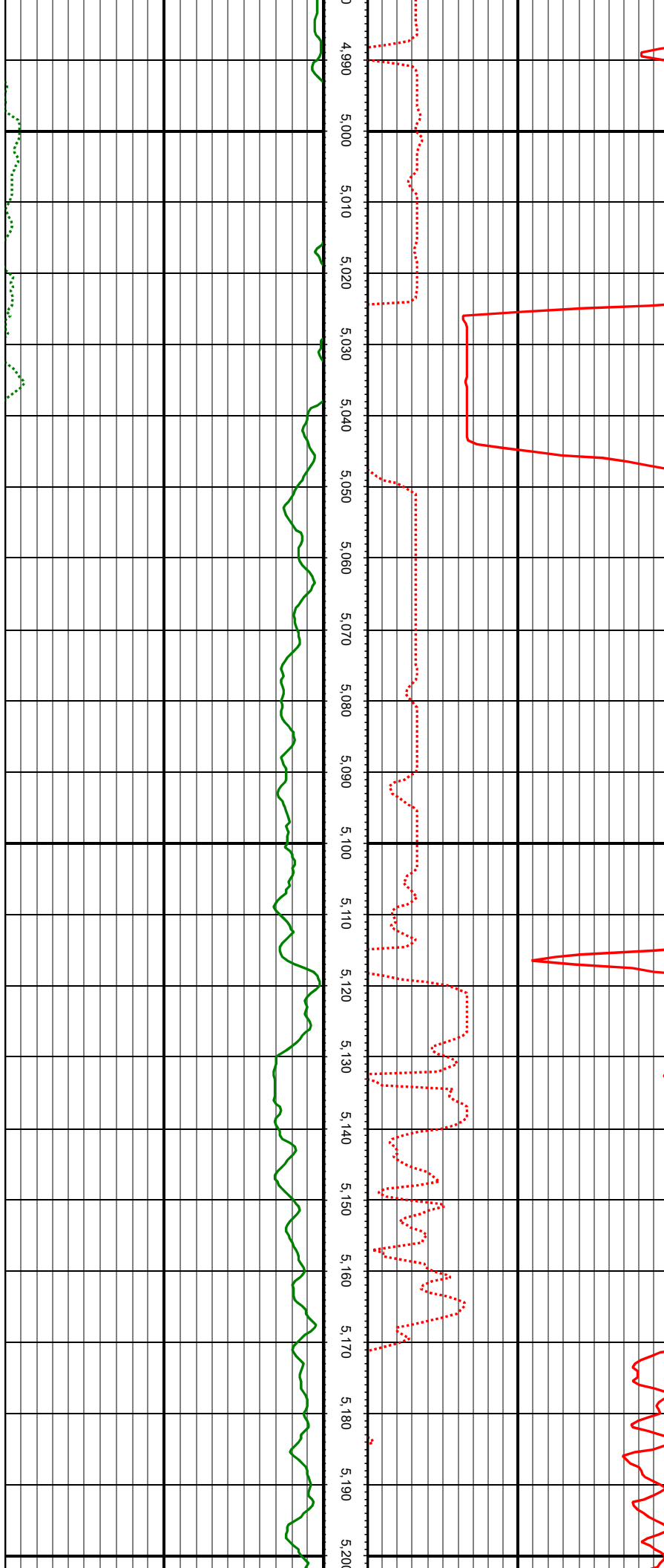
MD: 4639.00 INC: 37.58 AZ: 20.22 TVD: 4551.37 VS: -77.69

MD: 4728.00 INC: 43.47 AZ: 21.27 TVD: 4619.00 VS: -85.92



MD: 4818.00 INC: 44.92 AZ: 23.38 TVD: 4683.52 VS: -96.55

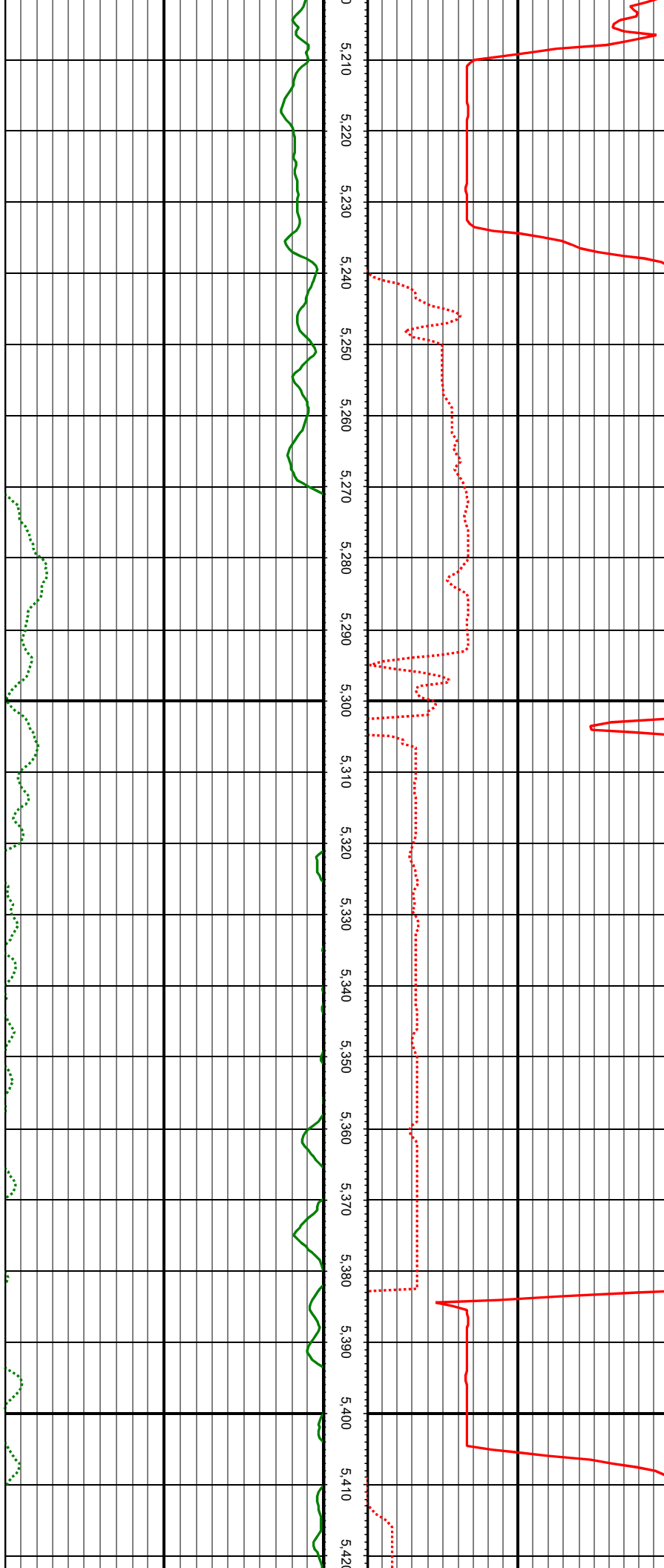
MD: 4908.00 INC: 45.54 AZ: 24.52 TVD: 4746.91 VS: -109.13



MD: 4997.00 INC: 44.75 AZ: 21.27 TVD: 4809.69 VS: -120.43

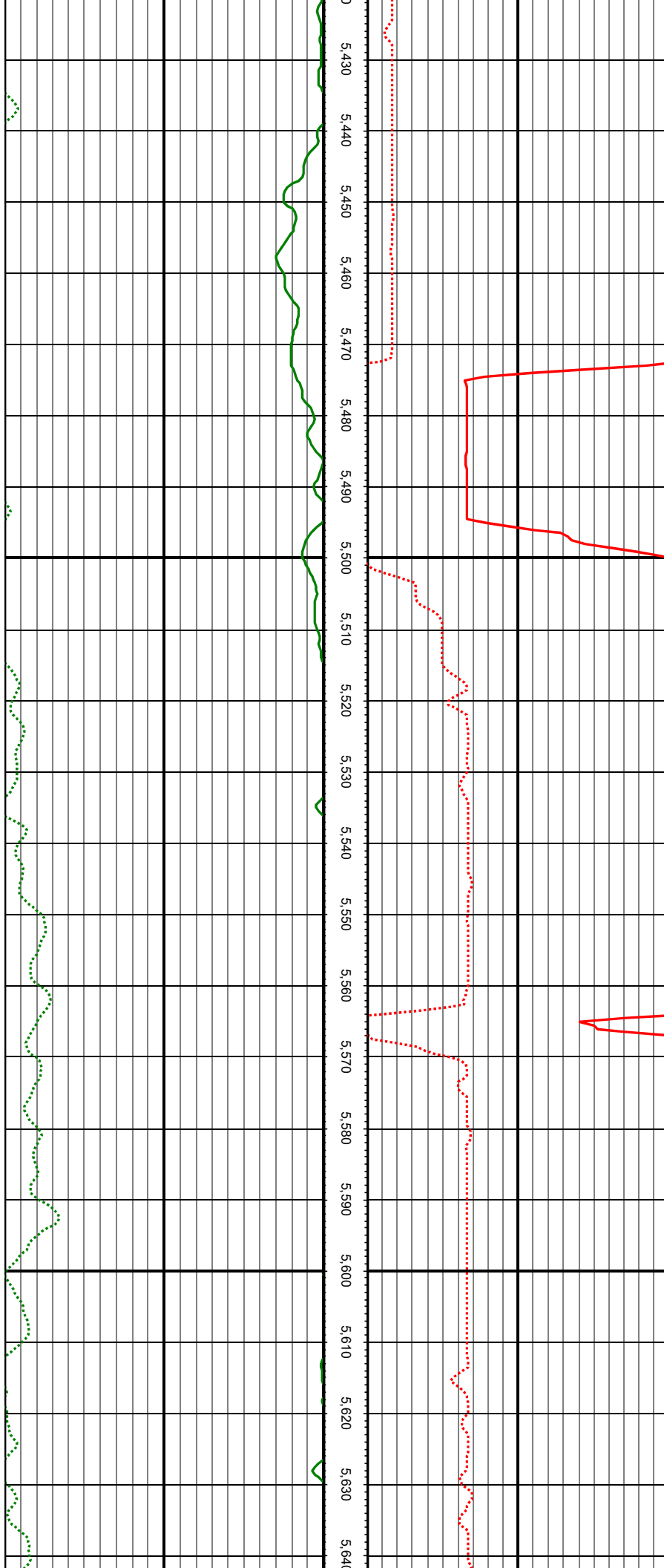
MD: 5087.00 INC: 45.85 AZ: 14.33 TVD: 4873.03 VS: -126.19

MD: 5177.00 INC: 46.15 AZ: 17.32 TVD: 4935.56 VS: -129.85



MD: 5266.00 INC: 46.02 AZ: 22.41 TVD: 4997.31 VS: -137.96

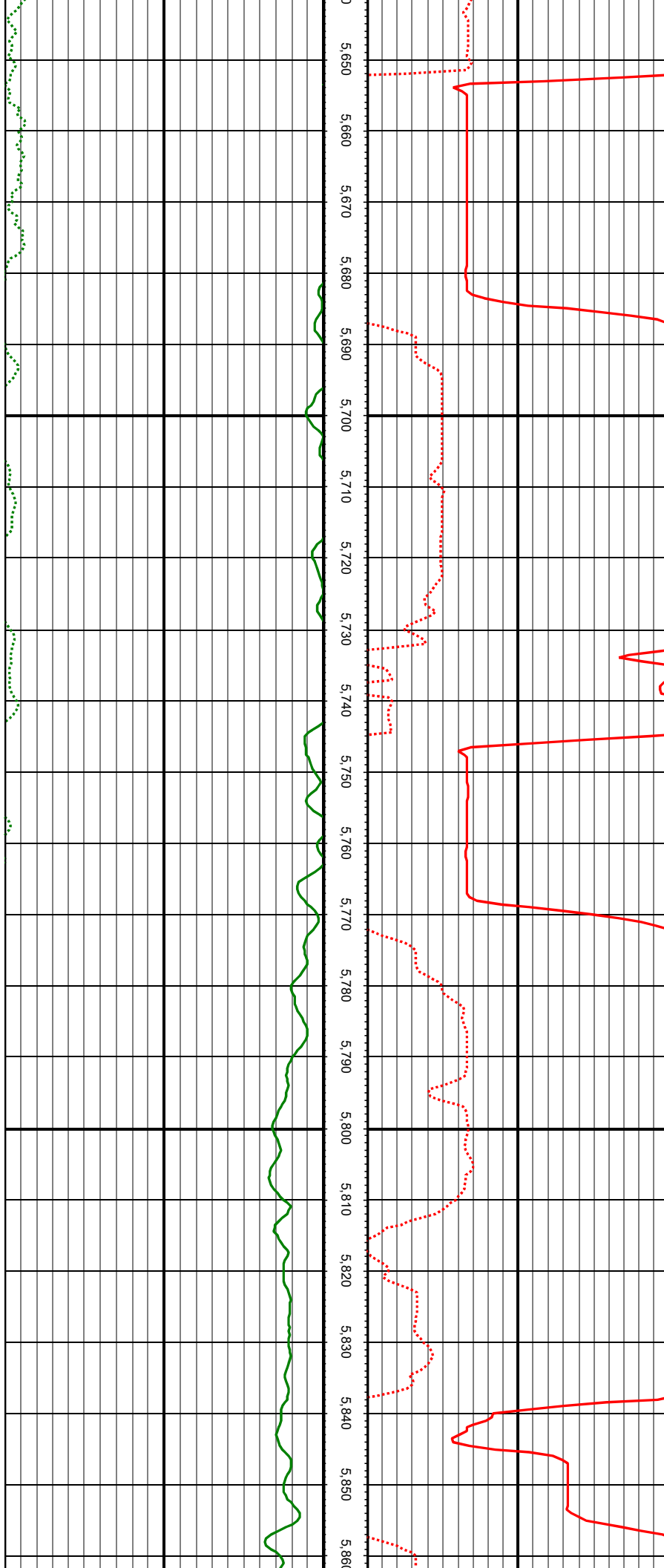
MD: 5356.00 INC: 45.54 AZ: 22.50 TVD: 5060.08 VS: -149.01



MD: 5446.00 INC: 45.58 AZ: 22.15 TVD: 5123.09 VS: -159.88

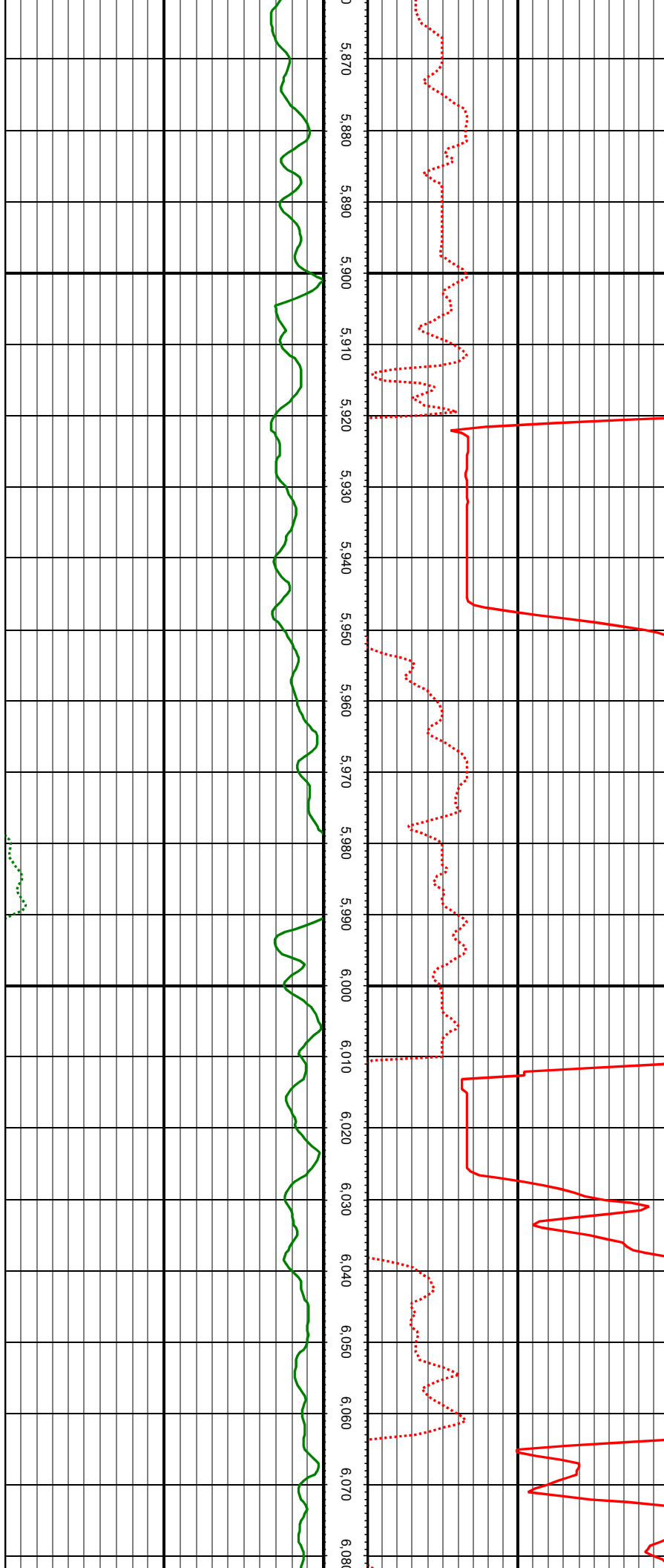
MD: 5536.00 INC: 46.73 AZ: 21.27 TVD: 5185.44 VS: -170.16

MD: 5625.00 INC: 46.73 AZ: 22.15 TVD: 5246.44 VS: -180.43



MD: 5715.00 INC: 44.92 AZ: 21.45 TVD: 5309.16 VS: -190.77

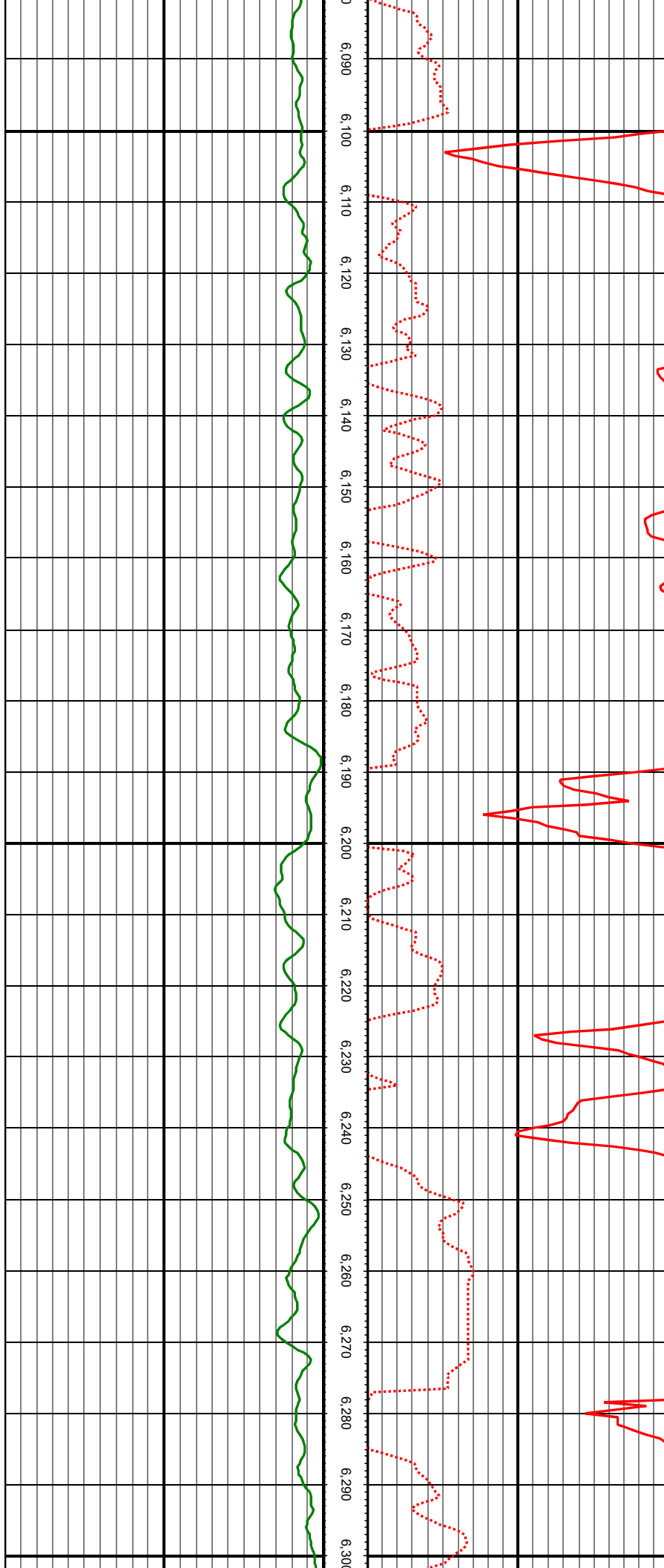
MD: 5805.00 INC: 44.66 AZ: 21.80 TVD: 5373.03 VS: -200.73



MD: 5894.00 INC: 44.57 AZ: 21.45 TVD: 5436.38 VS: -210.54

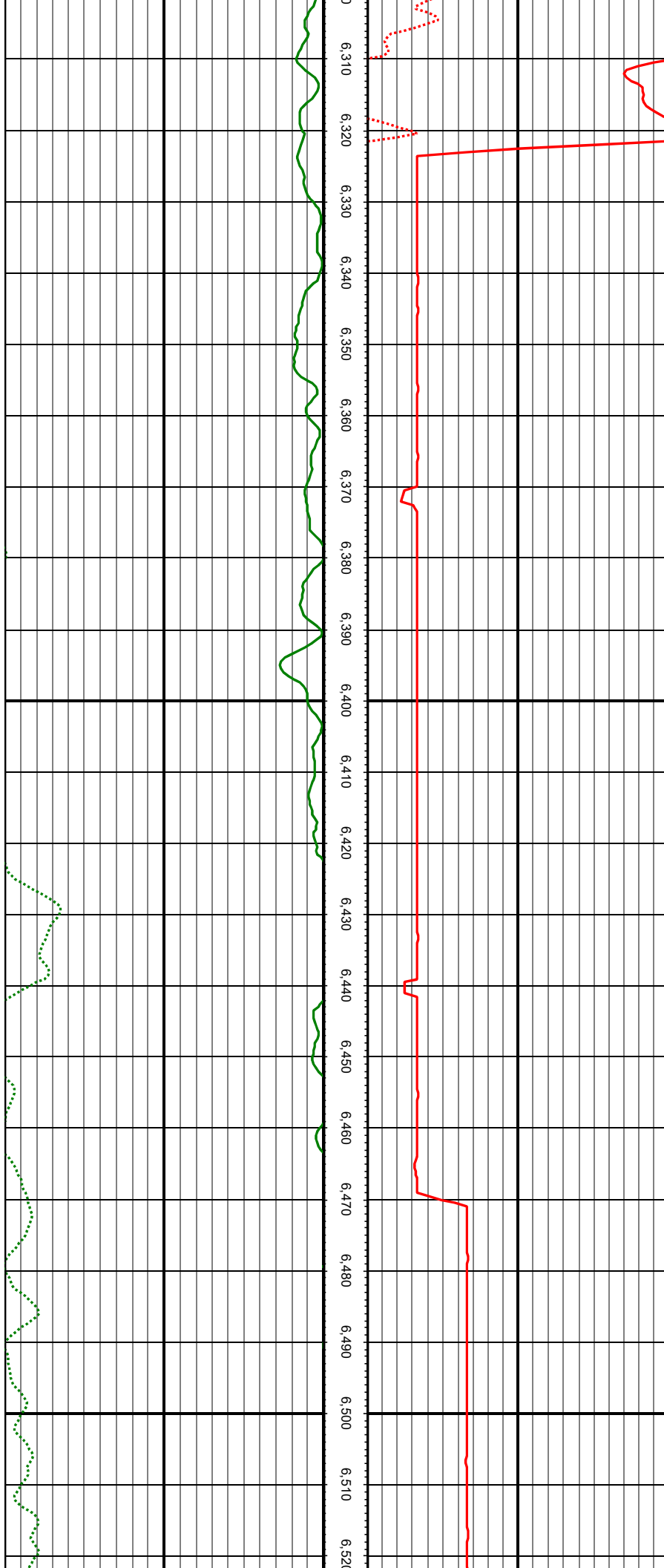
MD: 5984.00 INC: 44.40 AZ: 21.71 TVD: 5500.59 VS: -220.40

MD: 6074.00 INC: 44.62 AZ: 21.10 TVD: 5564.77 VS: -230.06



MD: 6164.00 INC: 44.62 AZ: 21.36 TVD: 5628.83 VS: -239.56

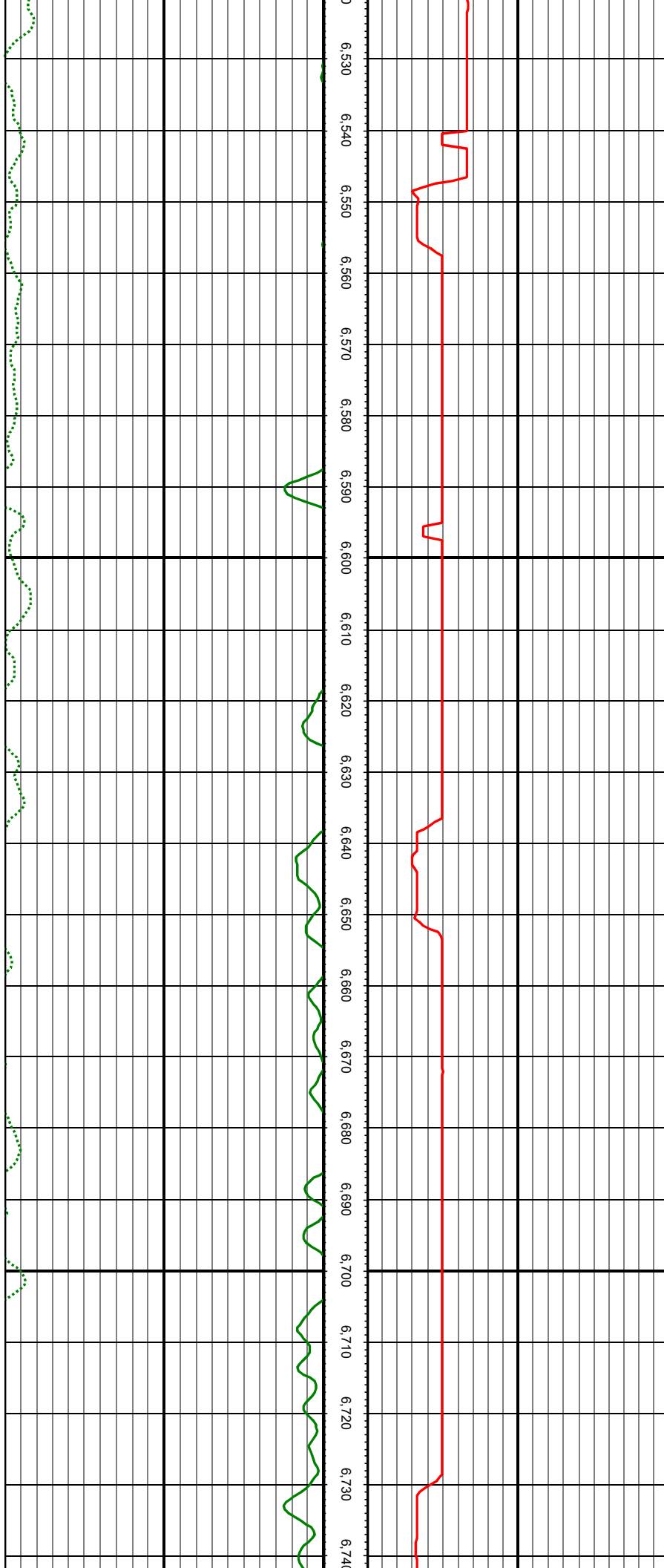
MD: 6253.00 INC: 44.79 AZ: 21.27 TVD: 5692.09 VS: -249.06



MD: 6343.00 INC: 44.92 AZ: 21.01 TVD: 5755.89 VS: -258.49

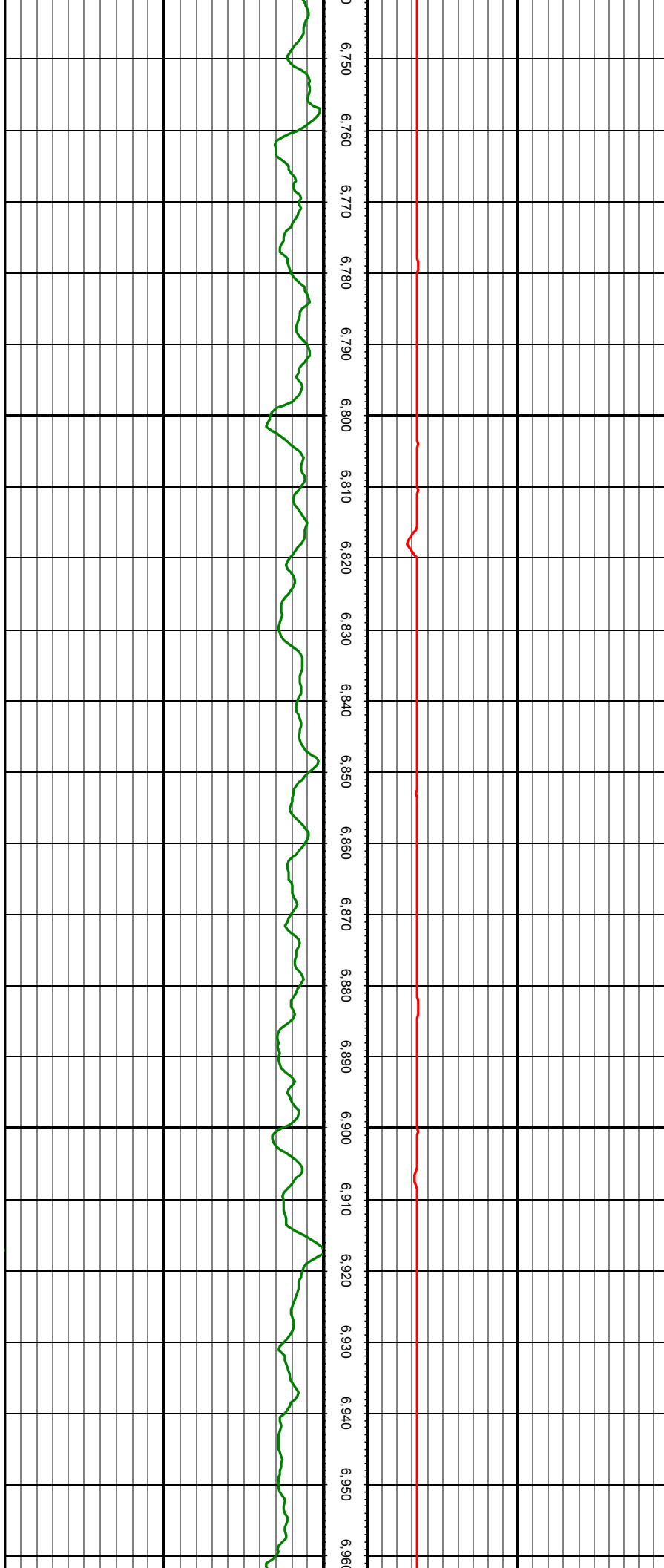
MD: 6432.00 INC: 44.75 AZ: 21.27 TVD: 5819.00 VS: -267.82

MD: 6522.00 INC: 44.84 AZ: 21.01 TVD: 5882.87 VS: -277.25



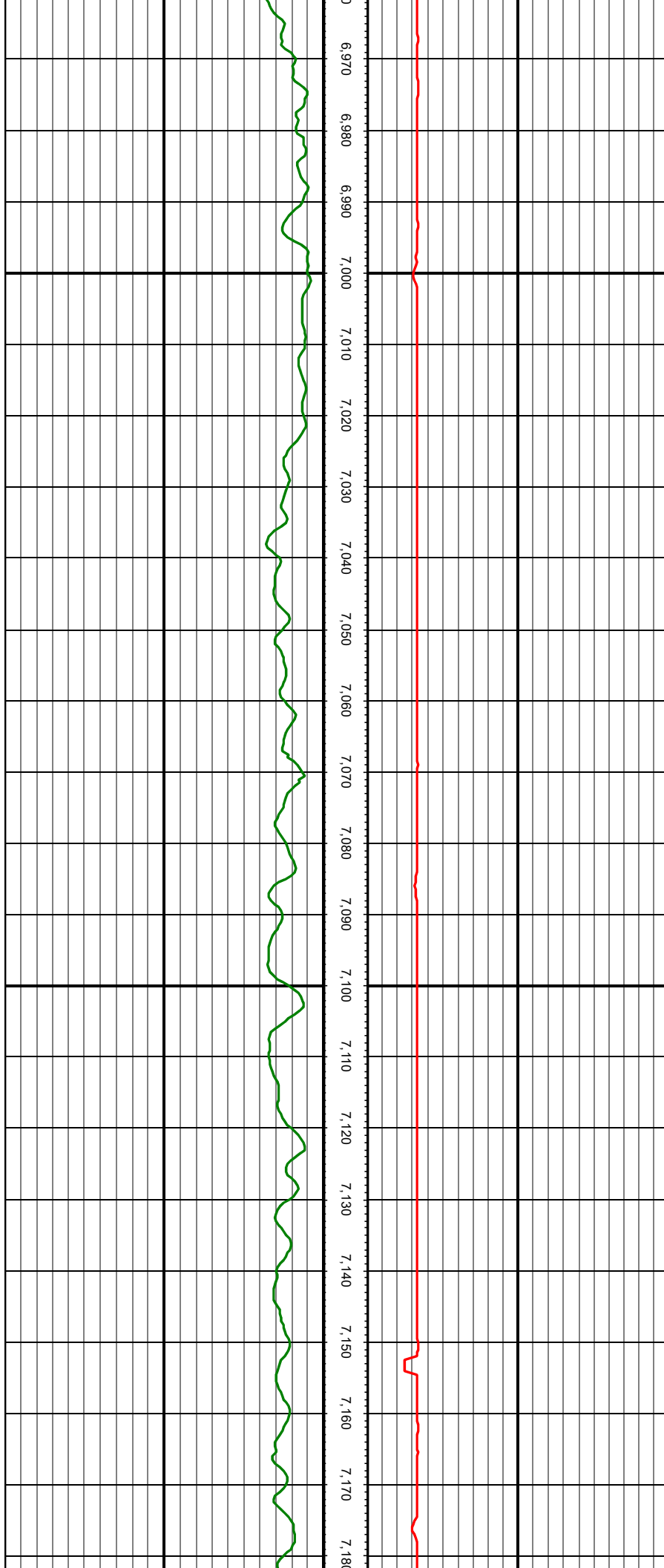
MD: 6612.00 INC: 44.75 AZ: 21.71 TVD: 5946.74 VS: -286.92

MD: 6702.00 INC: 44.79 AZ: 21.45 TVD: 6010.63 VS: -296.82



MD: 6791.00 INC: 44.75 AZ: 21.27 TVD: 6073.82 VS: -306.38

MD: 6881.00 INC: 44.75 AZ: 21.71 TVD: 6137.73 VS: -316.18



MD: 6971.00 INC: 44.79 AZ: 21.45 TVD: 6201.63 VS: -326.09

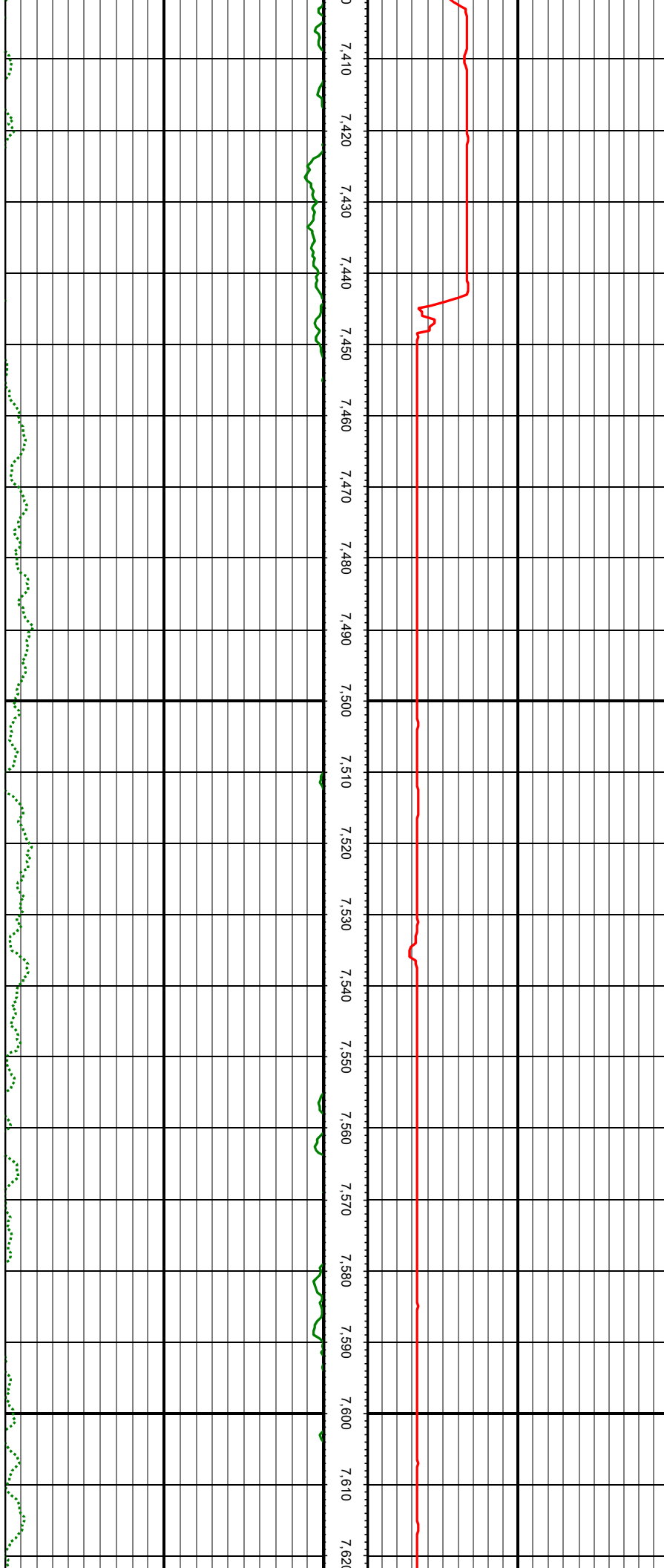
MD: 7060.00 INC: 44.70 AZ: 22.15 TVD: 6264.84 VS: -336.11

MD: 7150.00 INC: 44.79 AZ: 21.62 TVD: 6328.76 VS: -346.35



MD: 7240.00 INC: 44.84 AZ: 21.27 TVD: 6392.61 VS: -356.11

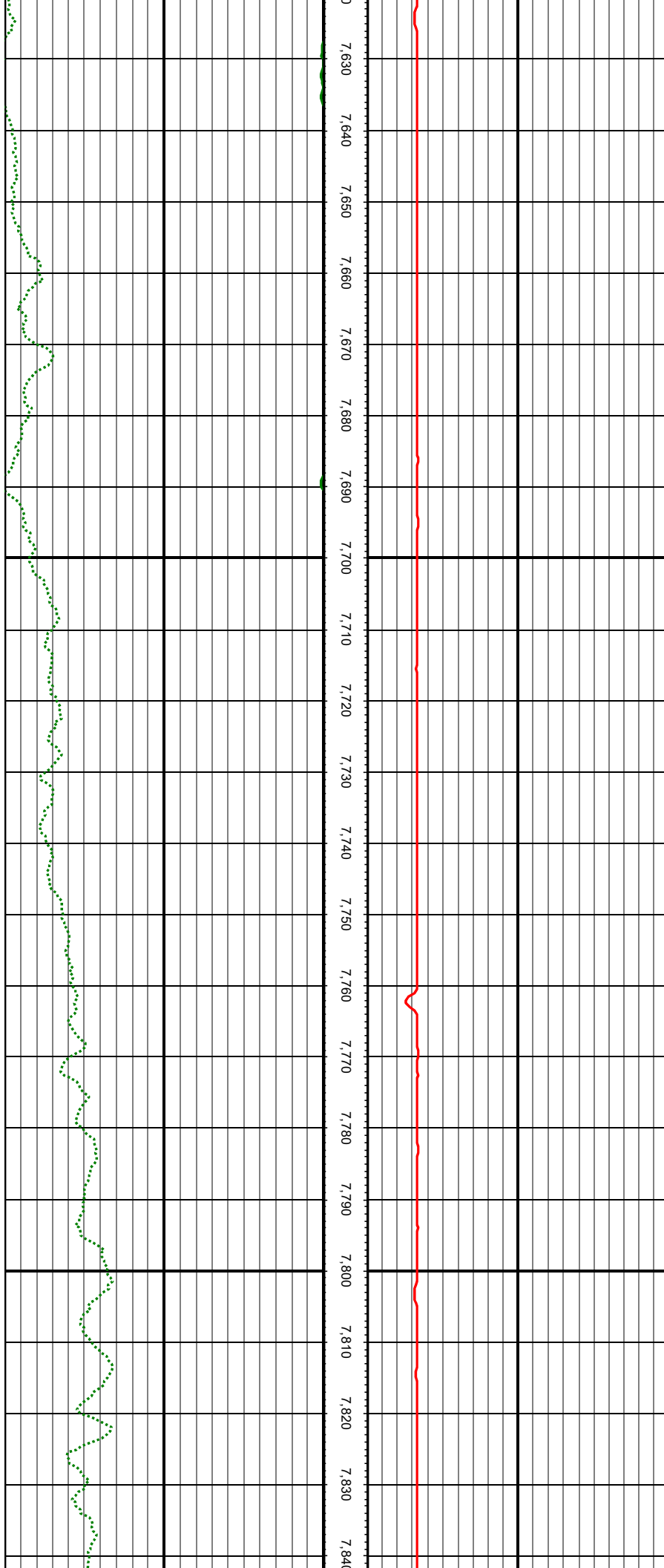
MD: 7330.00 INC: 43.43 AZ: 16.44 TVD: 6457.22 VS: -362.98



MD: 7419.00 INC: 43.91 AZ: 6.77 TVD: 6521.67 VS: -361.90

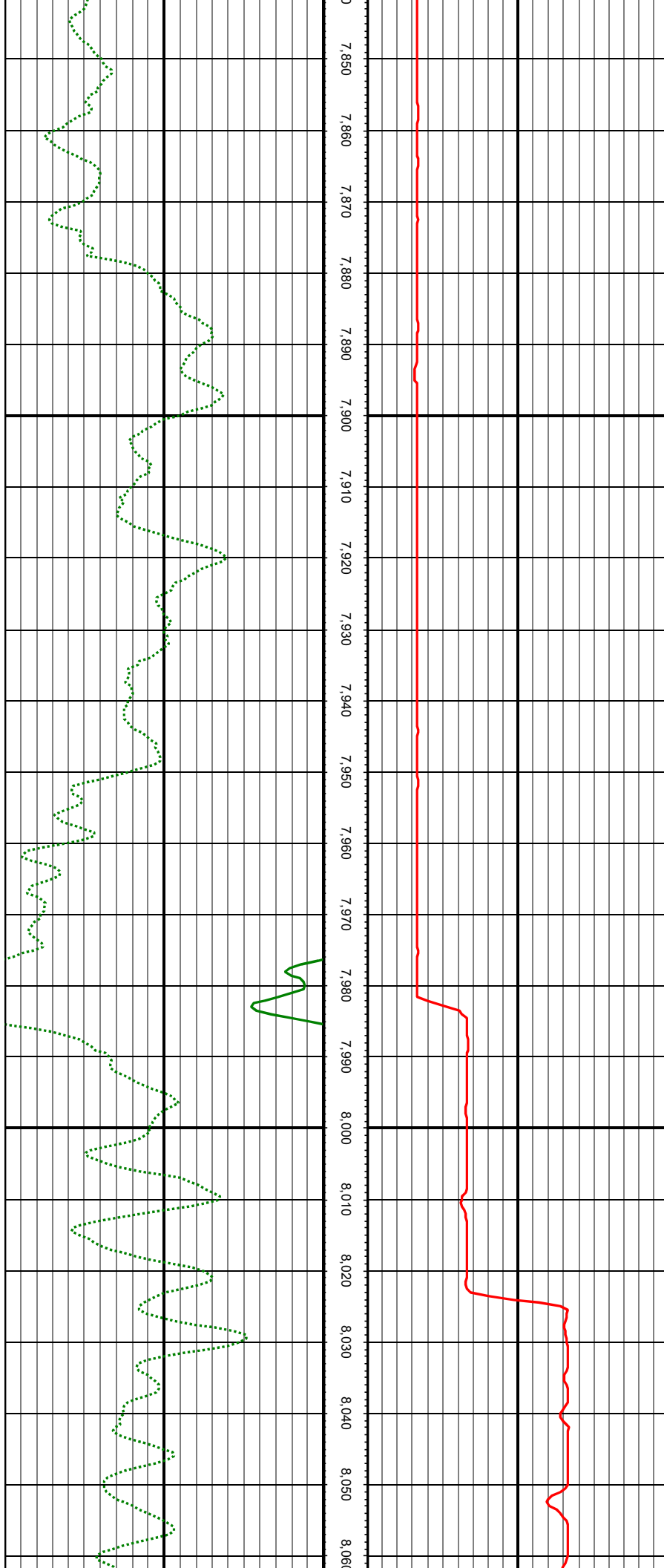
MD: 7509.00 INC: 44.57 AZ: 357.72 TVD: 6586.21 VS: -350.62

MD: 7598.00 INC: 46.95 AZ: 349.54 TVD: 6648.35 VS: -329.86



MD: 7688.00 INC: 48.70 AZ: 342.34 TVD: 6708.82 VS: -299.93

MD: 7778.00 INC: 49.41 AZ: 333.46 TVD: 6767.87 VS: -261.28

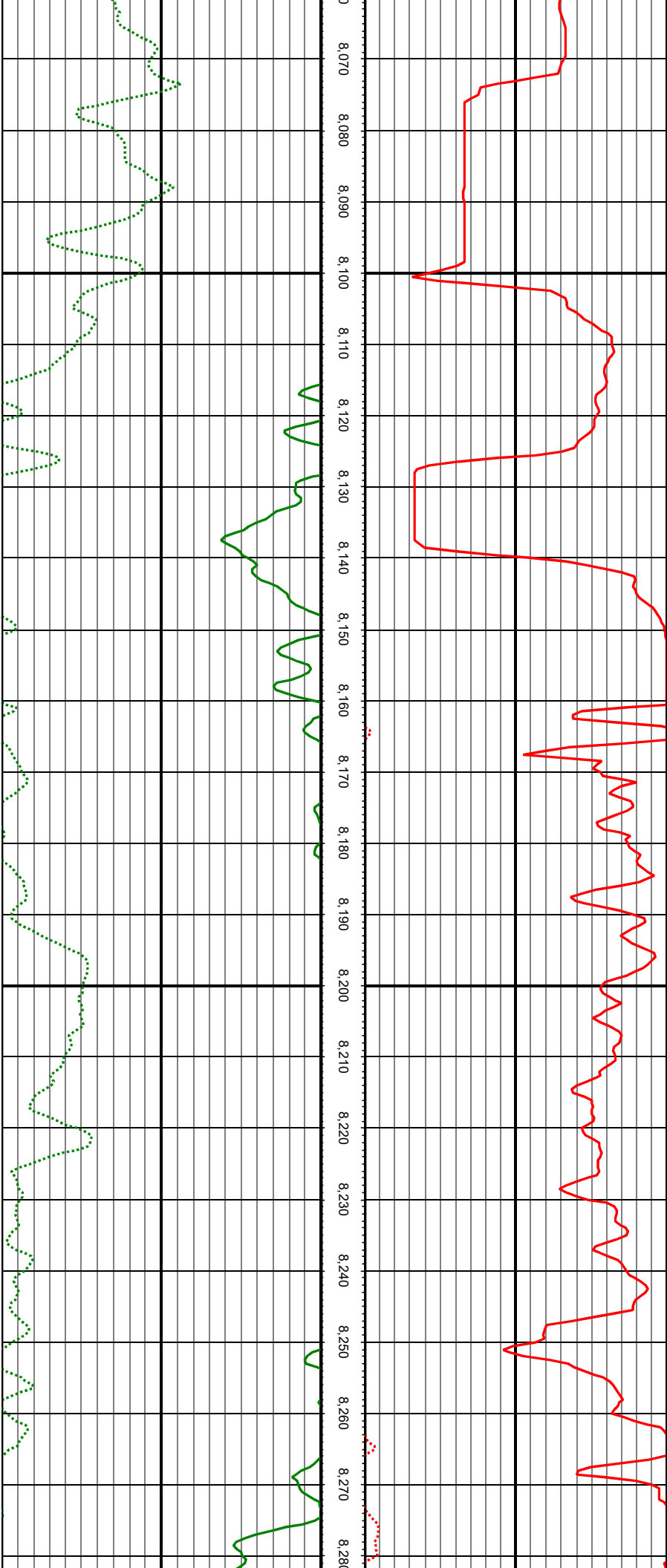


MD: 7867.00 INC: 50.24 AZ: 324.32 TVD: 6825.35 VS: -214.37

MD: 7957.00 INC: 51.43 AZ: 316.06 TVD: 6882.25 VS: -159.15

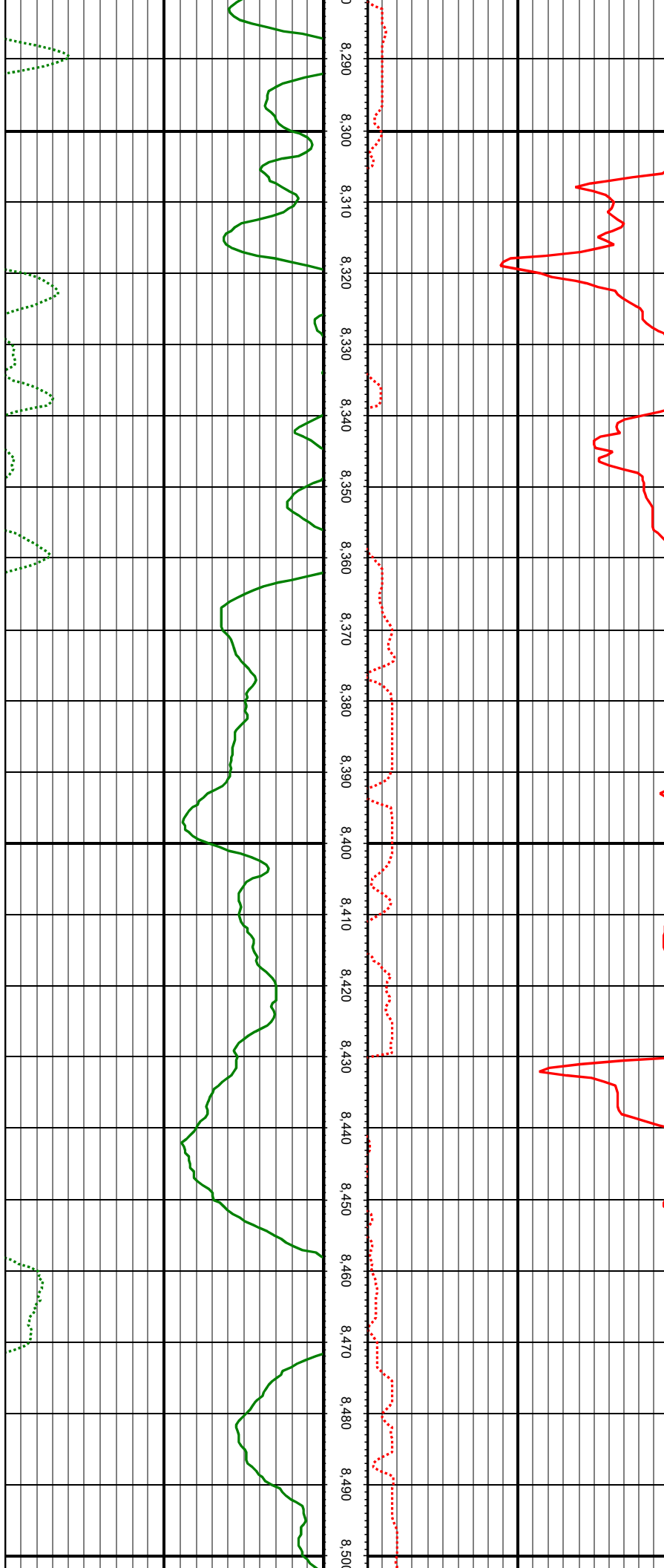
MD: 7977.00 INC: 51.21 AZ: 315.44 TVD: 6894.75 VS: -146.07

MD: 8066.00 INC: 54.95 AZ: 303.66 TVD: 6948.32 VS: -82.78



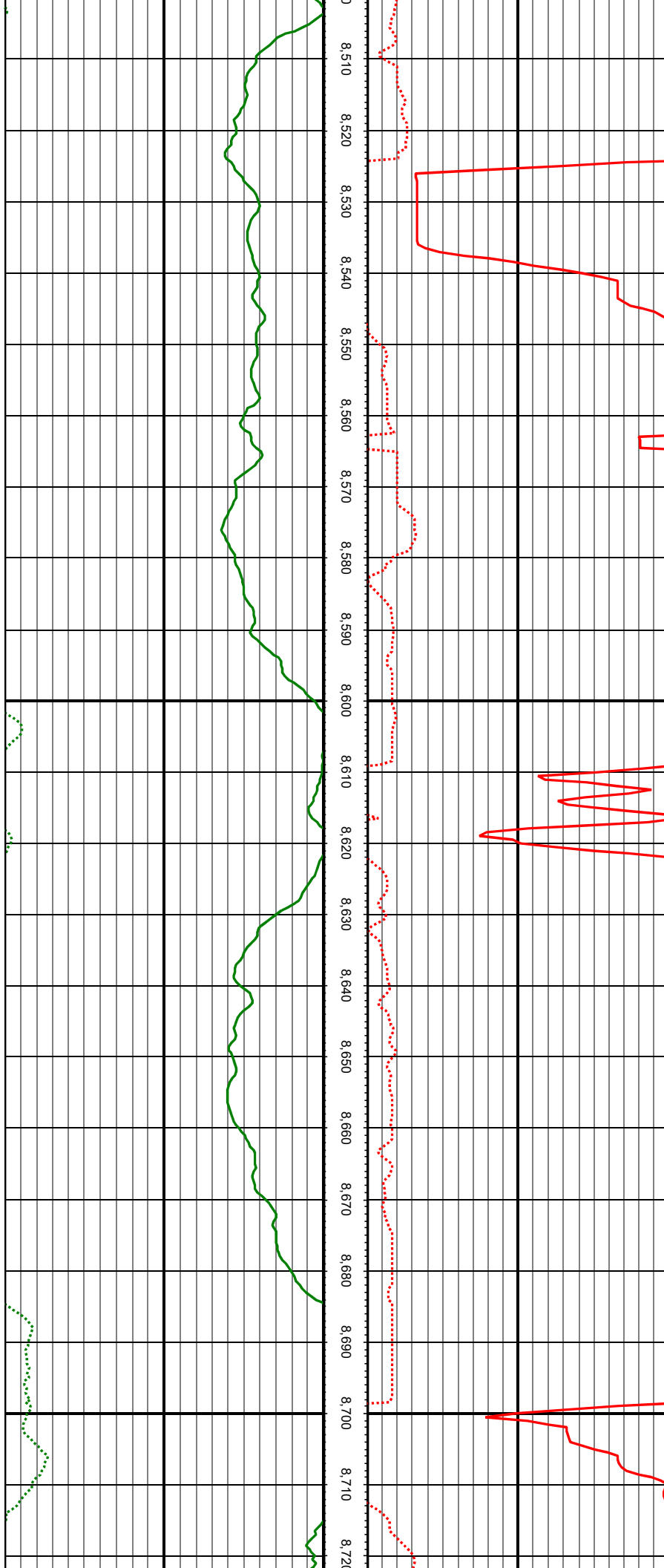
MD: 8156.00 INC: 59.52 AZ: 293.91 TVD: 6997.10 VS: -10.21

MD: 8246.00 INC: 65.32 AZ: 289.60 TVD: 7038.77 VS: 68.50



MD: 8335.00 INC: 74.46 AZ: 286.09 TVD: 7069.34 VS: 151.62

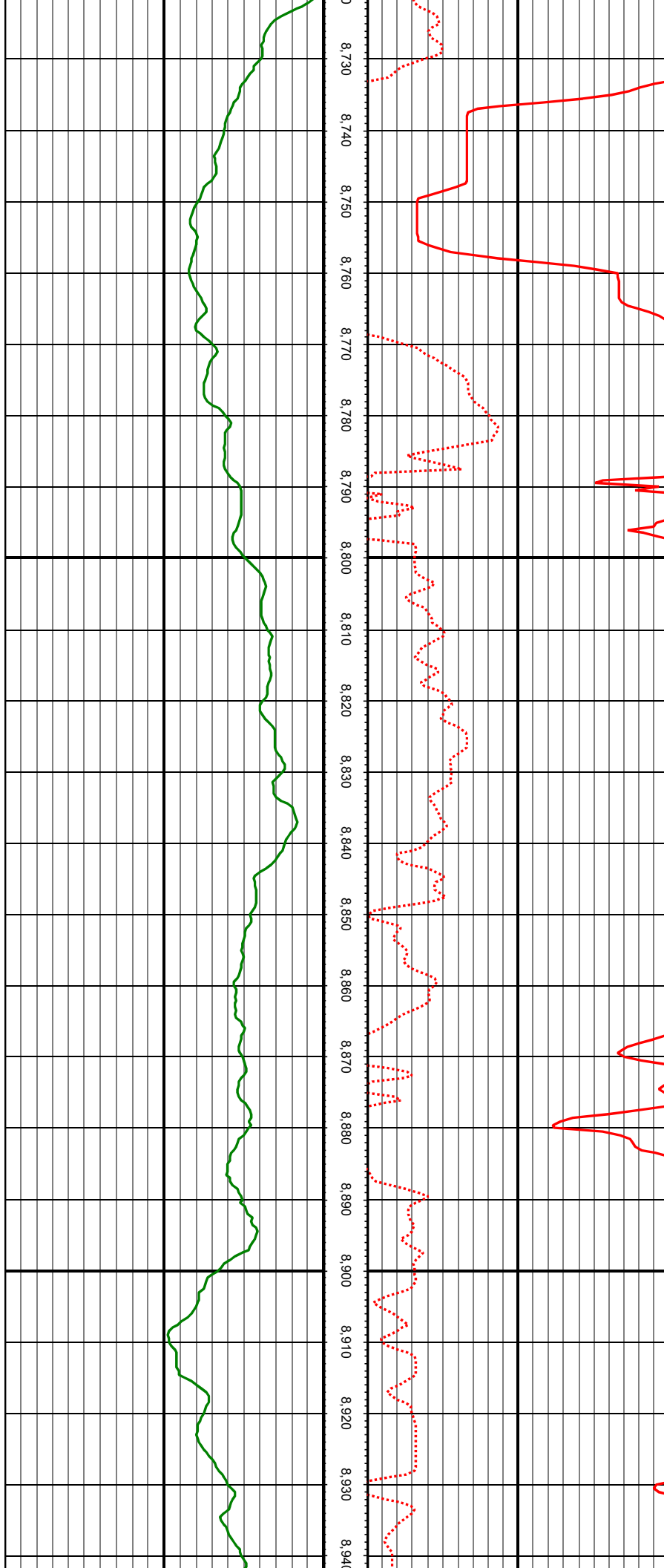
MD: 8425.00 INC: 81.63 AZ: 278.09 TVD: 7088.00 VS: 239.53



MD: 8515.00 INC: 85.45 AZ: 274.13 TVD: 7098.13 VS: 328.35

MD: 8605.00 INC: 90.37 AZ: 269.83 TVD: 7101.41 VS: 416.70

MD: 8694.00 INC: 89.93 AZ: 269.65 TVD: 7101.18 VS: 503.48



MD: 8764.00 INC: 90.02 AZ: 269.30 TVD: 7101.21 VS: 571.65

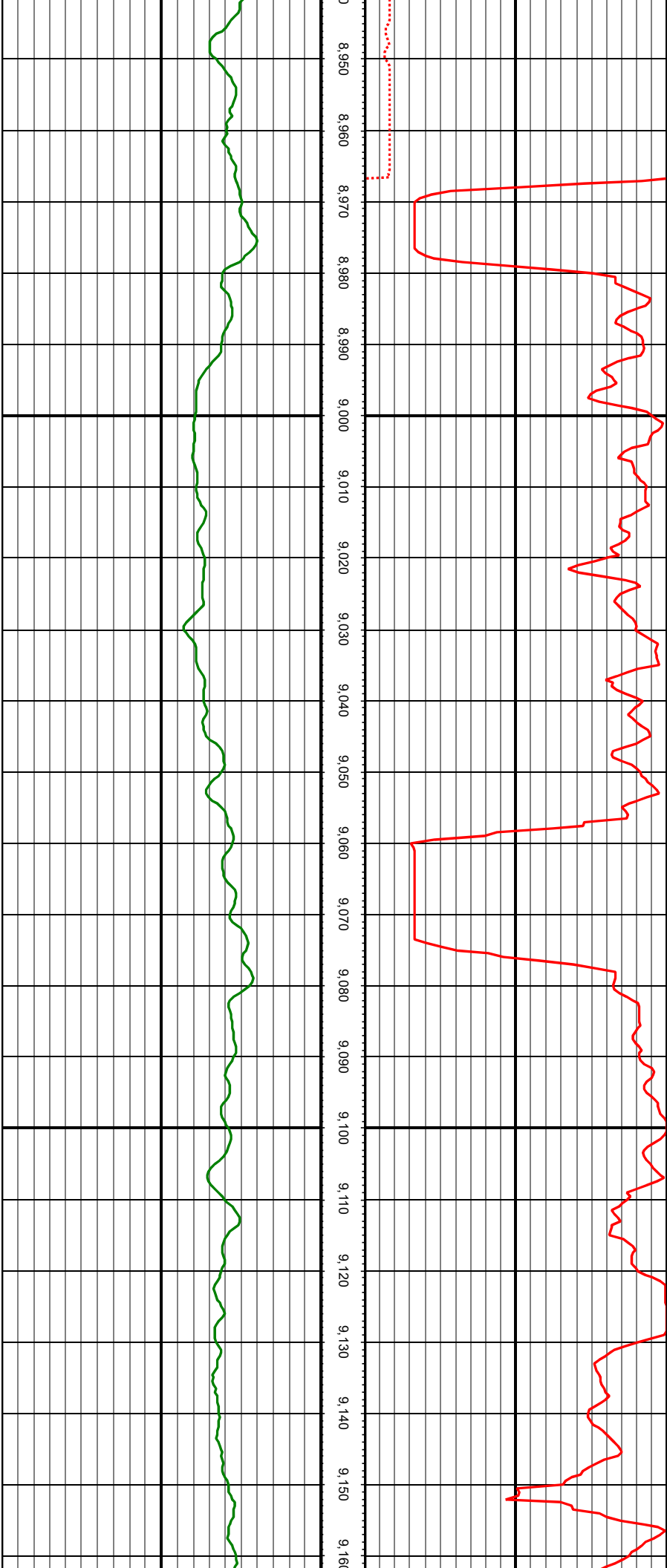
MD: 8854.00 INC: 89.54 AZ: 266.84 TVD: 7101.56 VS: 658.77

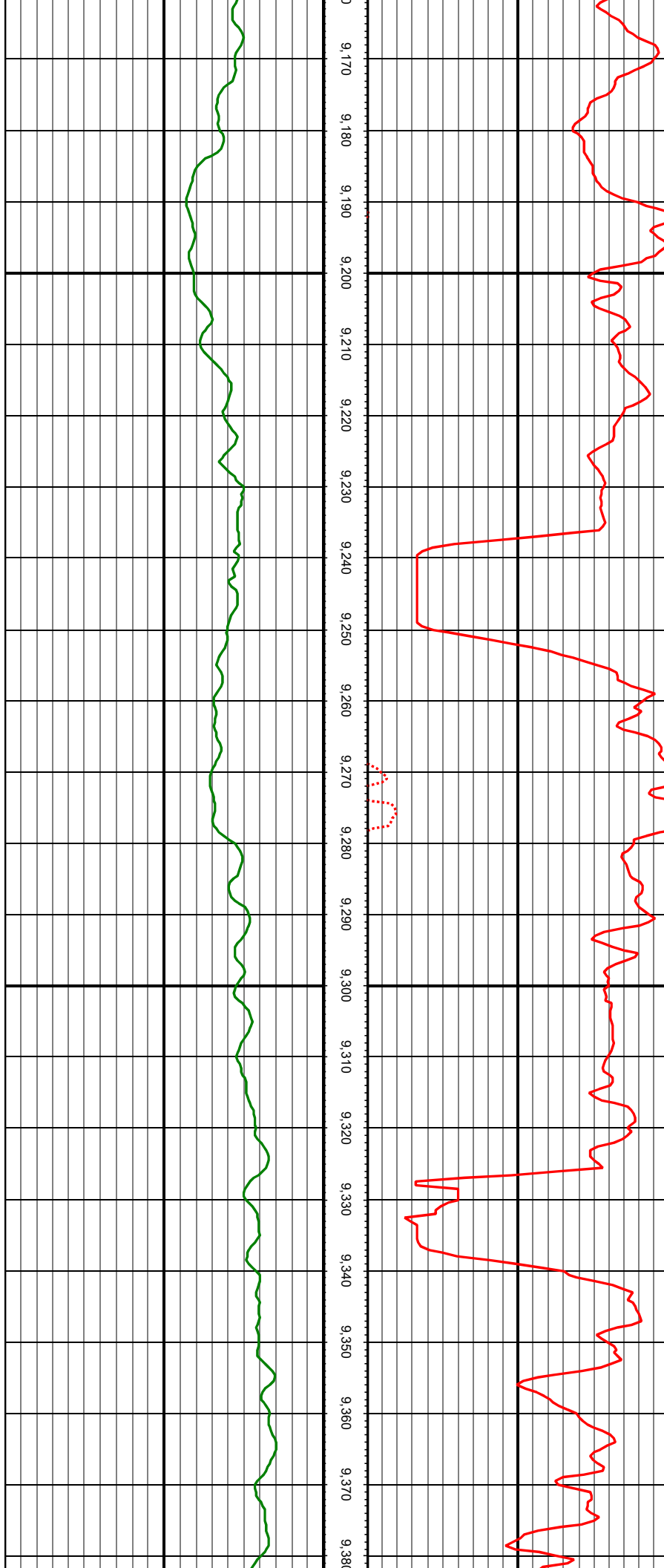
MD: 8943.00 INC: 89.99 AZ: 269.56 TVD: 7101.15 VS: 744.06

MD: 8943.00 INC: 90.99 AZ: 269.56 TVD: 7101.15 VS: 744.96

MD: 9033.00 INC: 89.23 AZ: 270.00 TVD: 7100.97 VS: 832.72

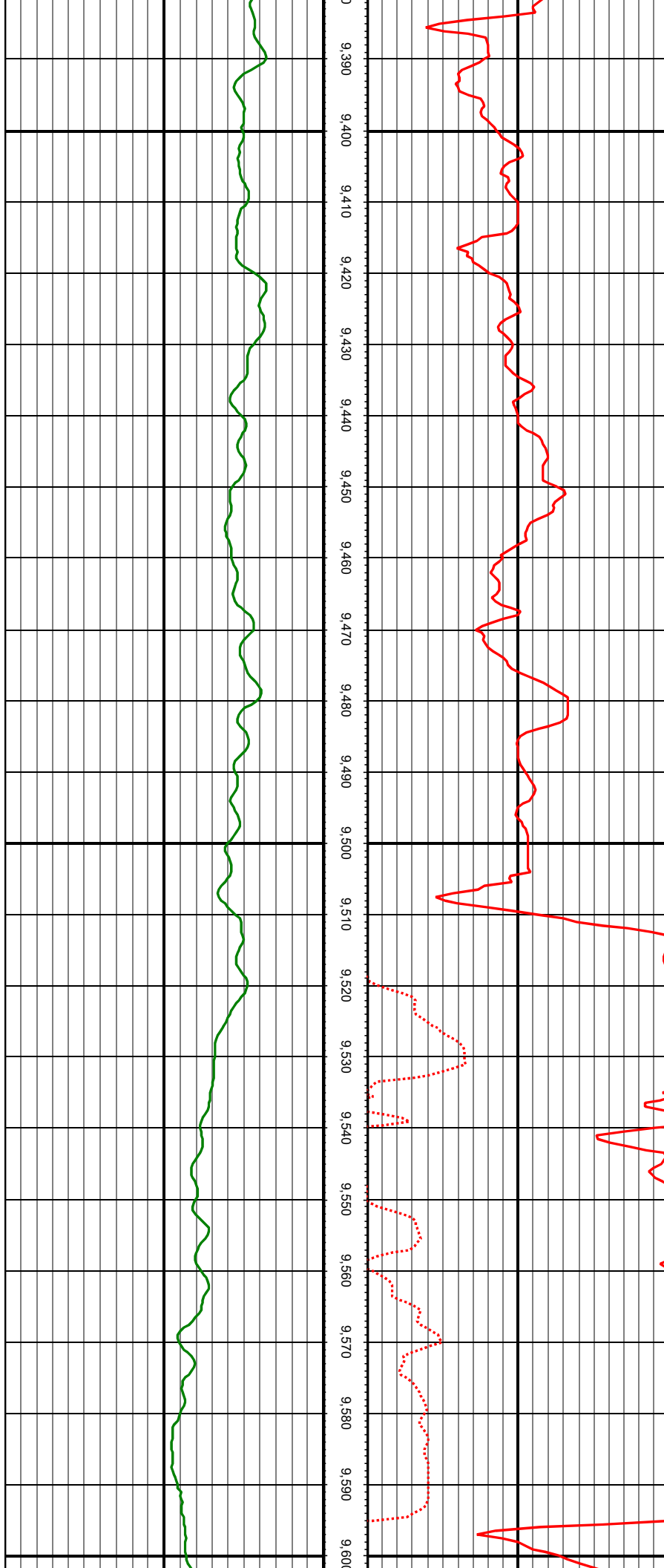
MD: 9122.00 INC: 89.32 AZ: 269.48 TVD: 7102.10 VS: 919.48





MD: 9212.00 INC: 90.11 AZ: 271.50 TVD: 7102.55 VS: 1007.48

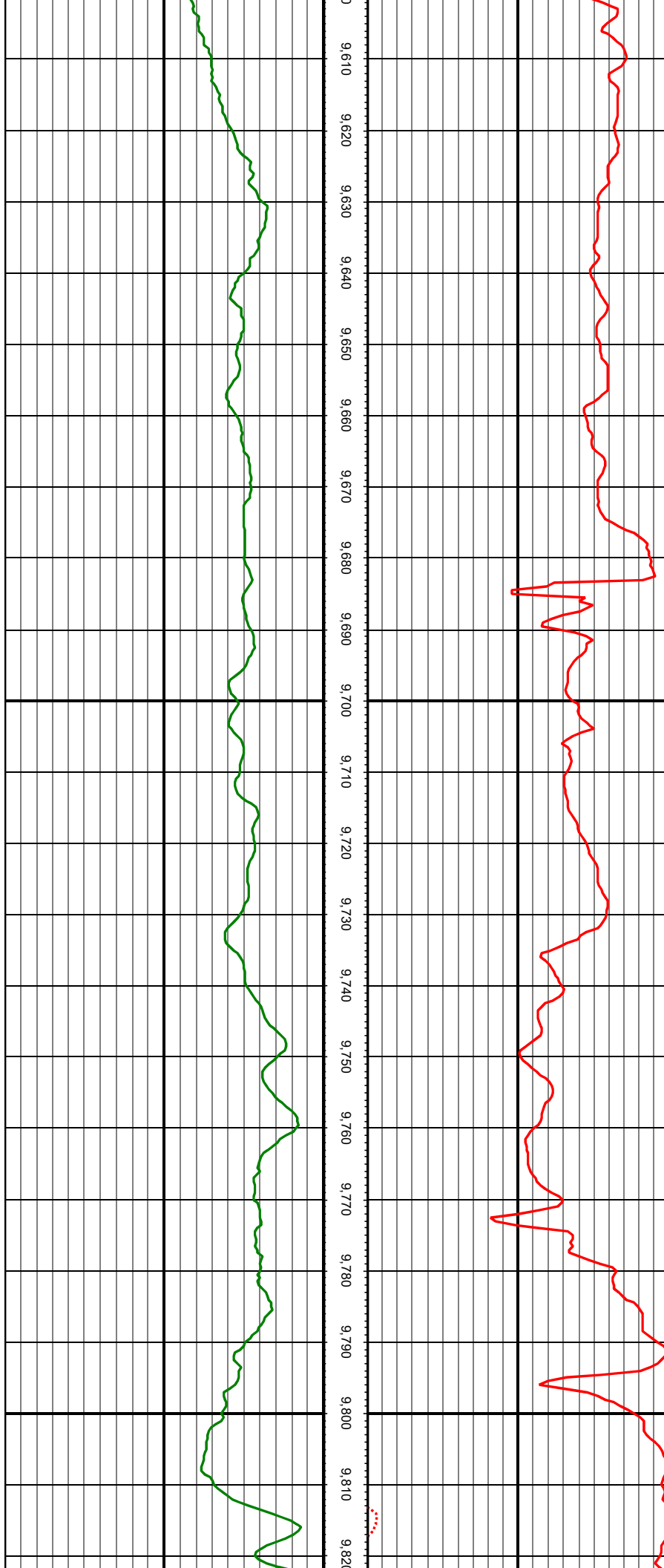
MD: 9302.00 INC: 90.11 AZ: 271.23 TVD: 7102.37 VS: 1095.76



MD: 9392.00 INC: 90.15 AZ: 271.06 TVD: 7102.17 VS: 1183.97

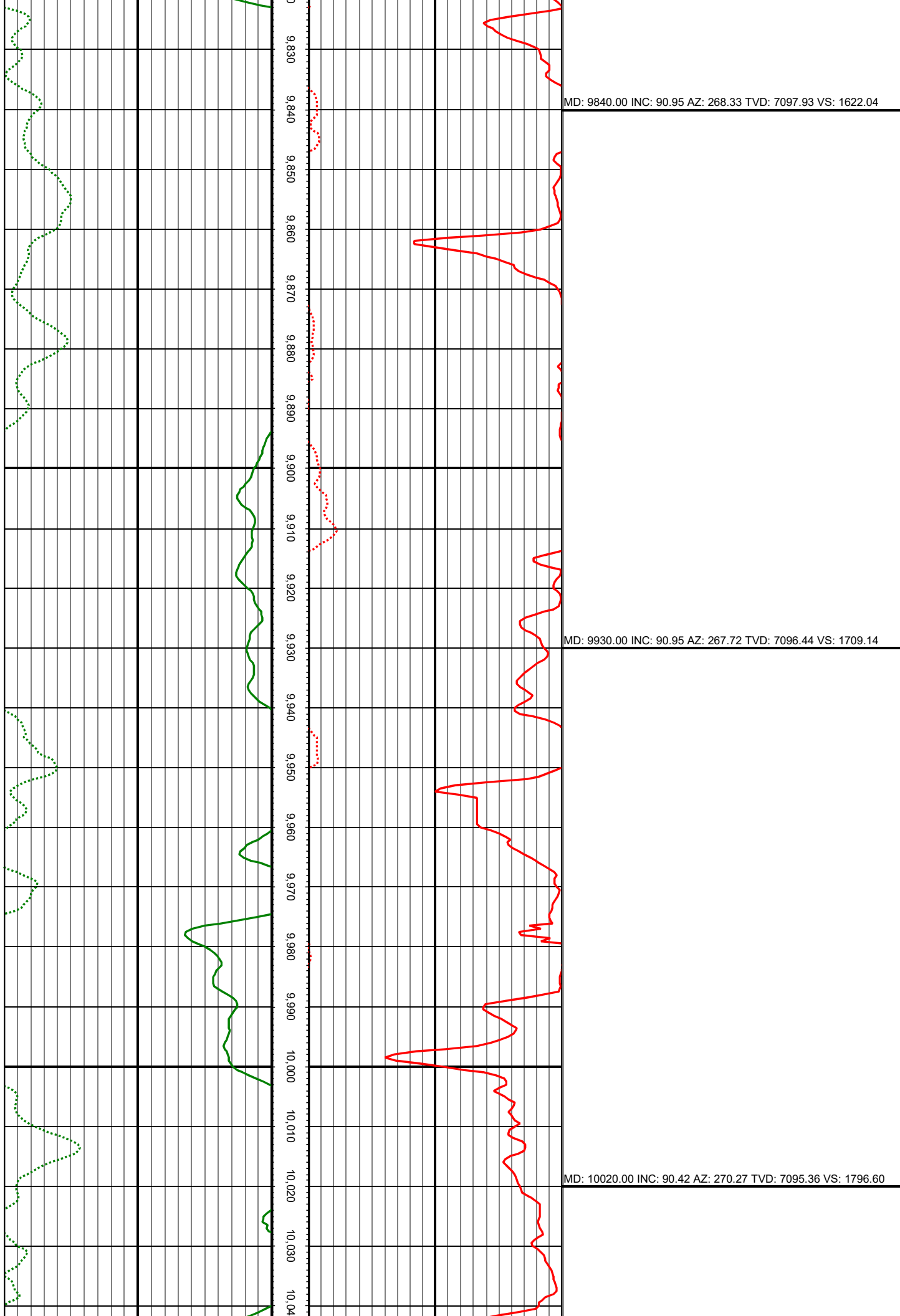
MD: 9482.00 INC: 90.11 AZ: 270.97 TVD: 7101.97 VS: 1272.14

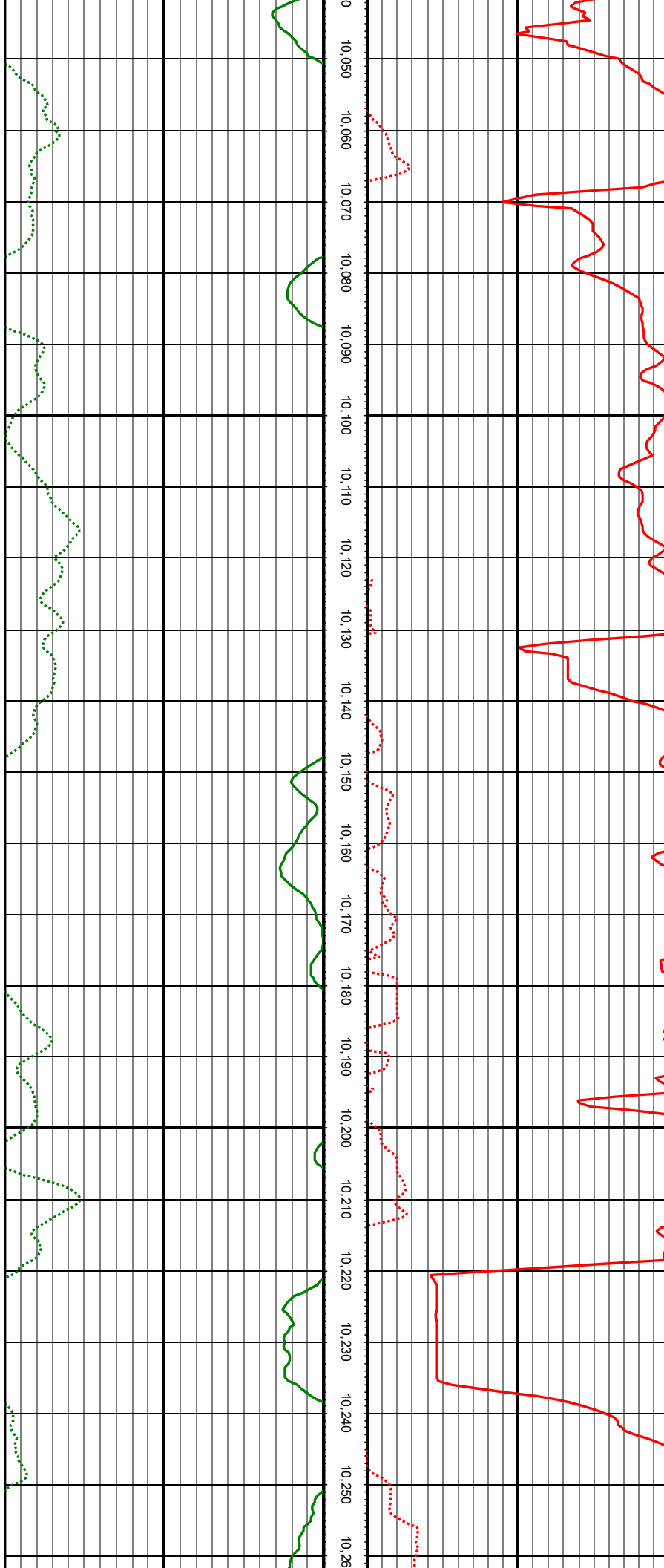
MD: 9571.00 INC: 90.11 AZ: 271.15 TVD: 7101.79 VS: 1359.34



MD: 9661.00 INC: 90.95 AZ: 271.23 TVD: 7100.96 VS: 1447.56

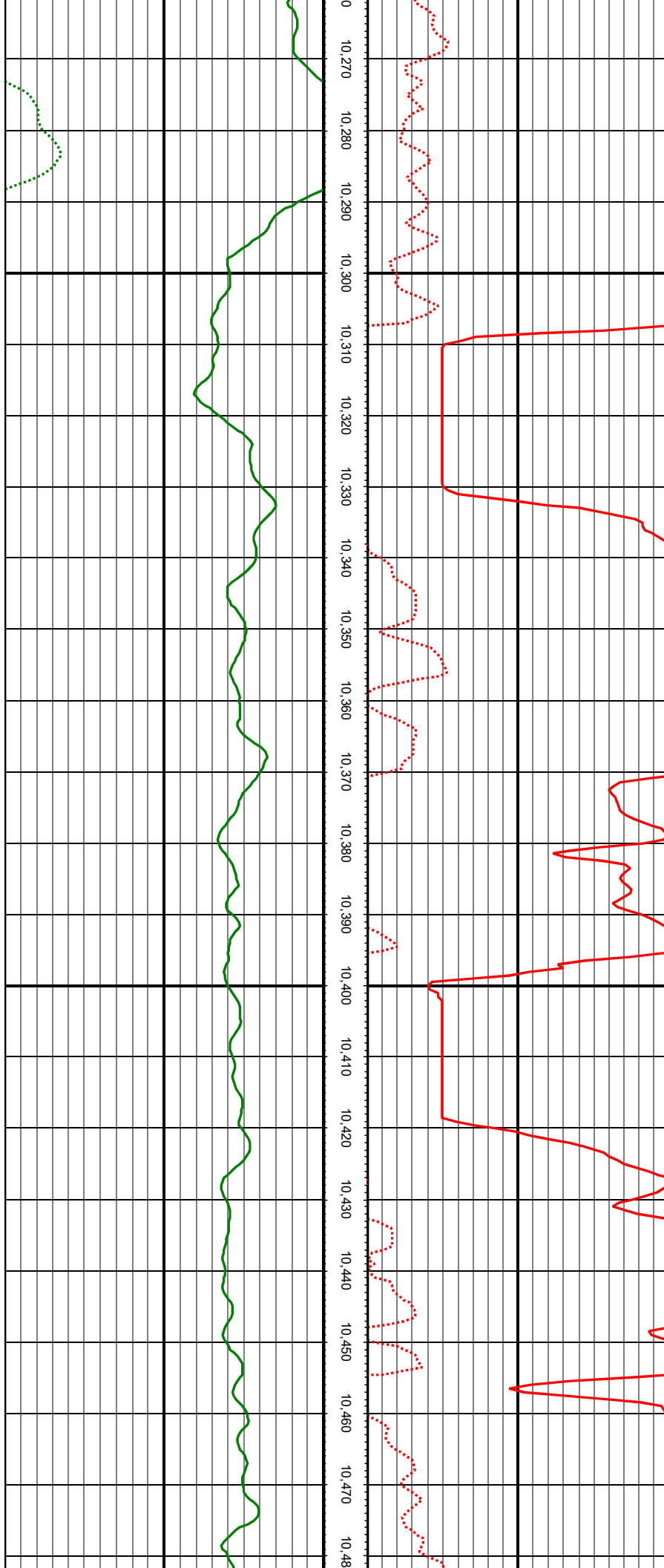
MD: 9750.00 INC: 90.99 AZ: 269.74 TVD: 7099.46 VS: 1534.56





MD: 10109.00 INC: 90.11 AZ: 271.41 TVD: 7094.95 VS: 1883.74

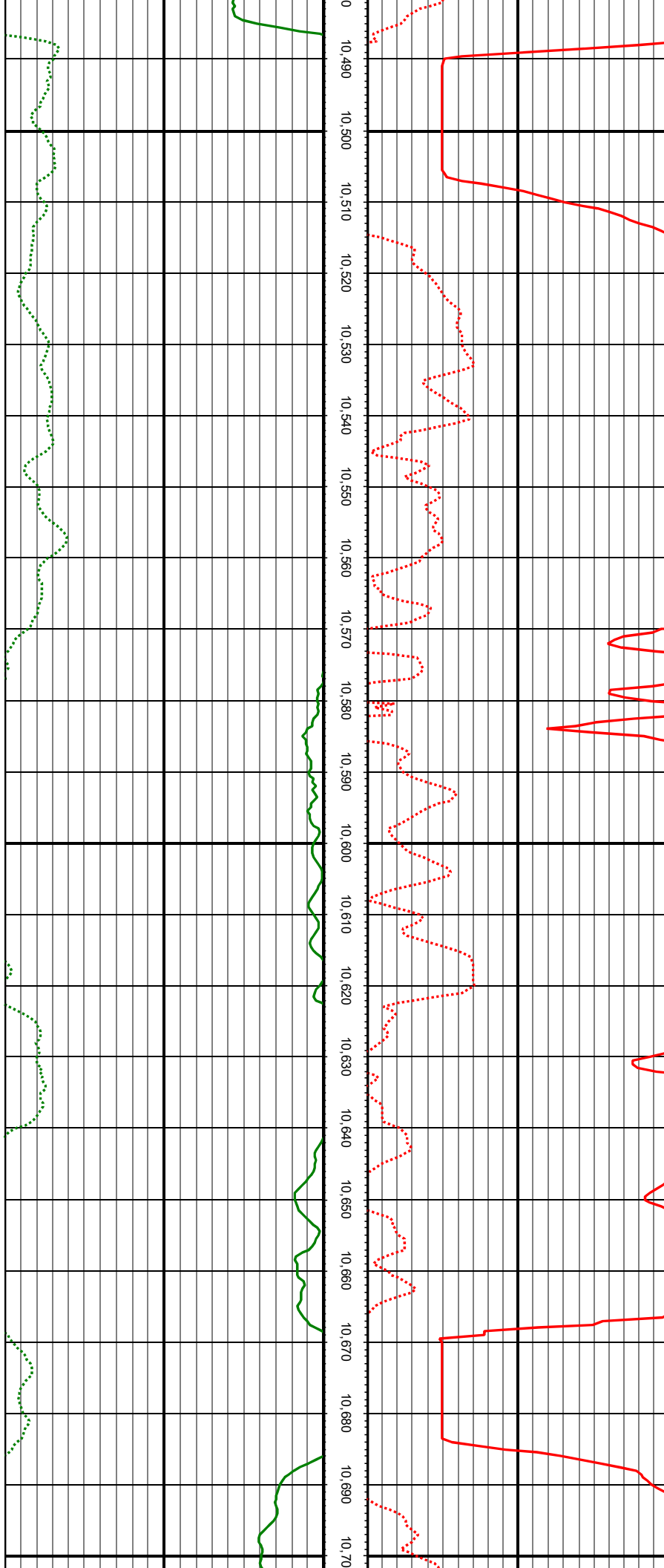
MD: 10199.00 INC: 90.07 AZ: 271.15 TVD: 7094.81 VS: 1971.99



MD: 10289.00 INC: 90.46 AZ: 271.15 TVD: 7094.39 VS: 2060.20

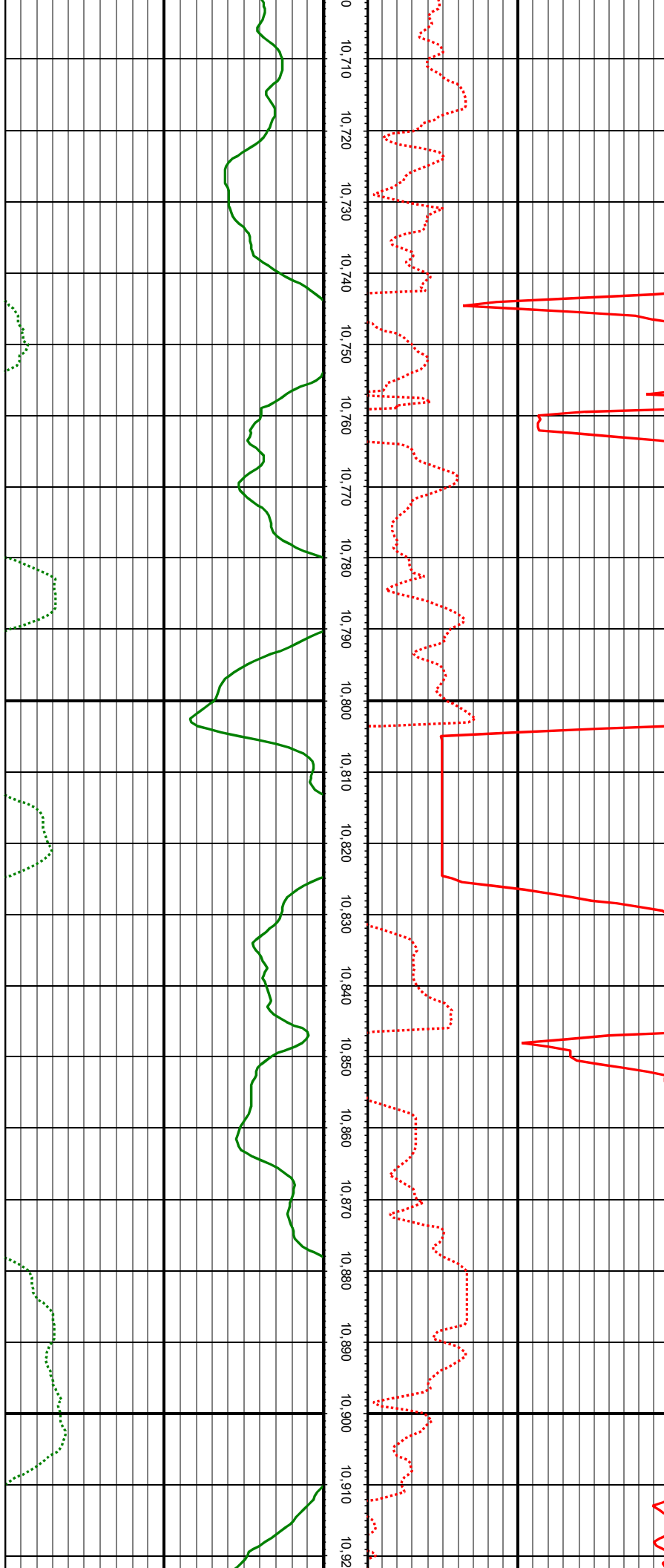
MD: 10379.00 INC: 90.95 AZ: 269.91 TVD: 7093.29 VS: 2148.20

MD: 10468.00 INC: 90.90 AZ: 269.83 TVD: 7091.85 VS: 2235.01



MD: 10558.00 INC: 92.35 AZ: 268.07 TVD: 7089.30 VS: 2322.43

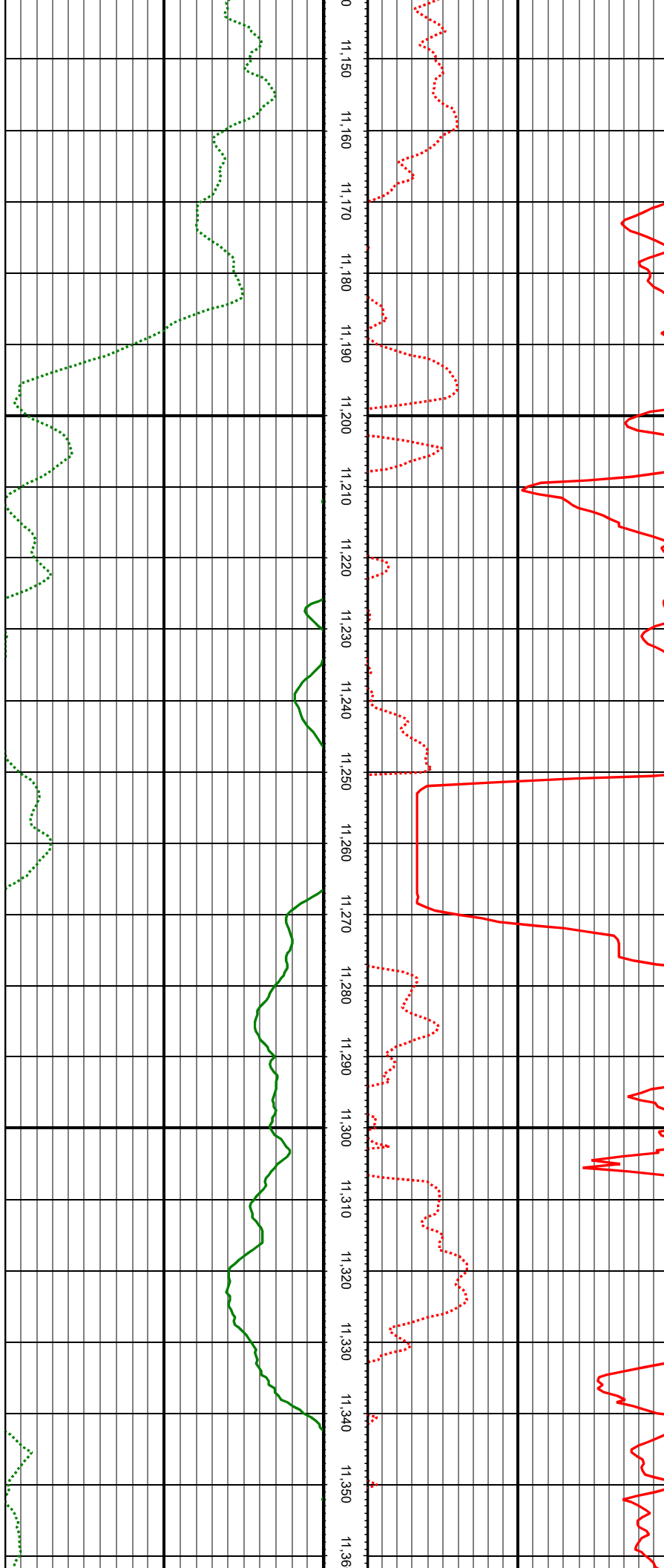
MD: 10648.00 INC: 94.86 AZ: 270.00 TVD: 7083.64 VS: 2409.74



MD: 10737.00 INC: 94.55 AZ: 272.99 TVD: 7076.34 VS: 2496.77

MD: 10827.00 INC: 94.33 AZ: 272.46 TVD: 7069.37 VS: 2585.17

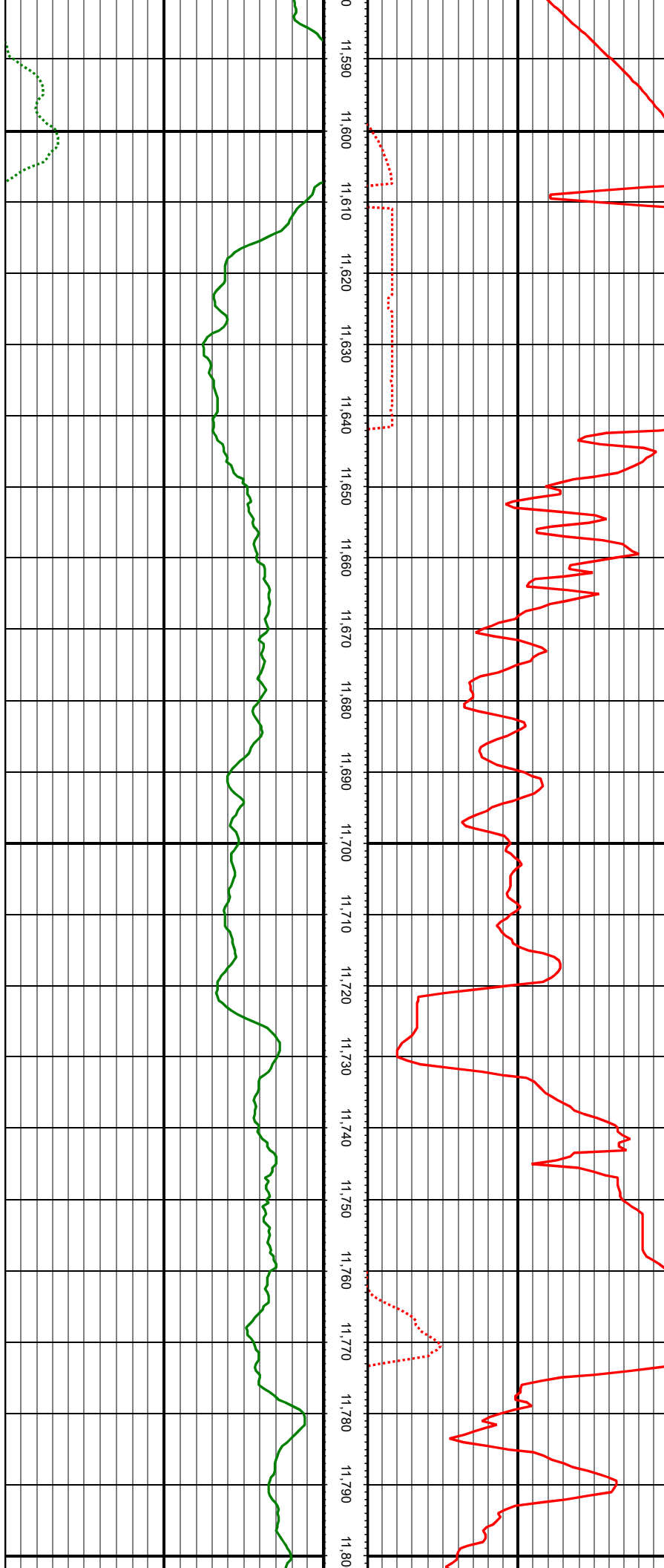
MD: 10917.00 INC: 94.59 AZ: 271.94 TVD: 7062.37 VS: 2673.43



MD: 11186.00 INC: 96.31 AZ: 269.91 TVD: 7038.32 VS: 2935.34

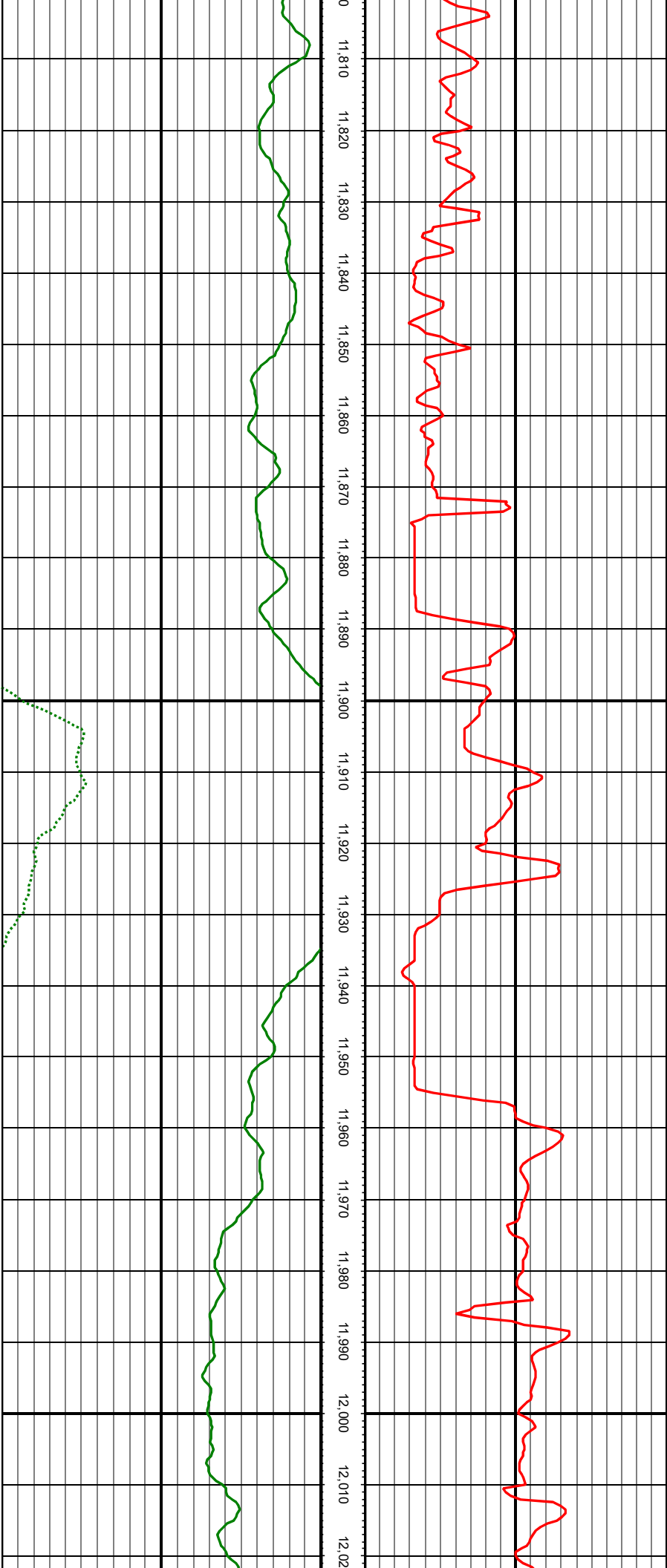
MD: 11276.00 INC: 96.79 AZ: 269.48 TVD: 7028.05 VS: 3022.50

MD: 11545.00 INC: 94.24 AZ: 267.54 TVD: 7002.26 VS: 3282.66



MD: 11635.00 INC: 94.02 AZ: 266.93 TVD: 6995.78 VS: 3369.22

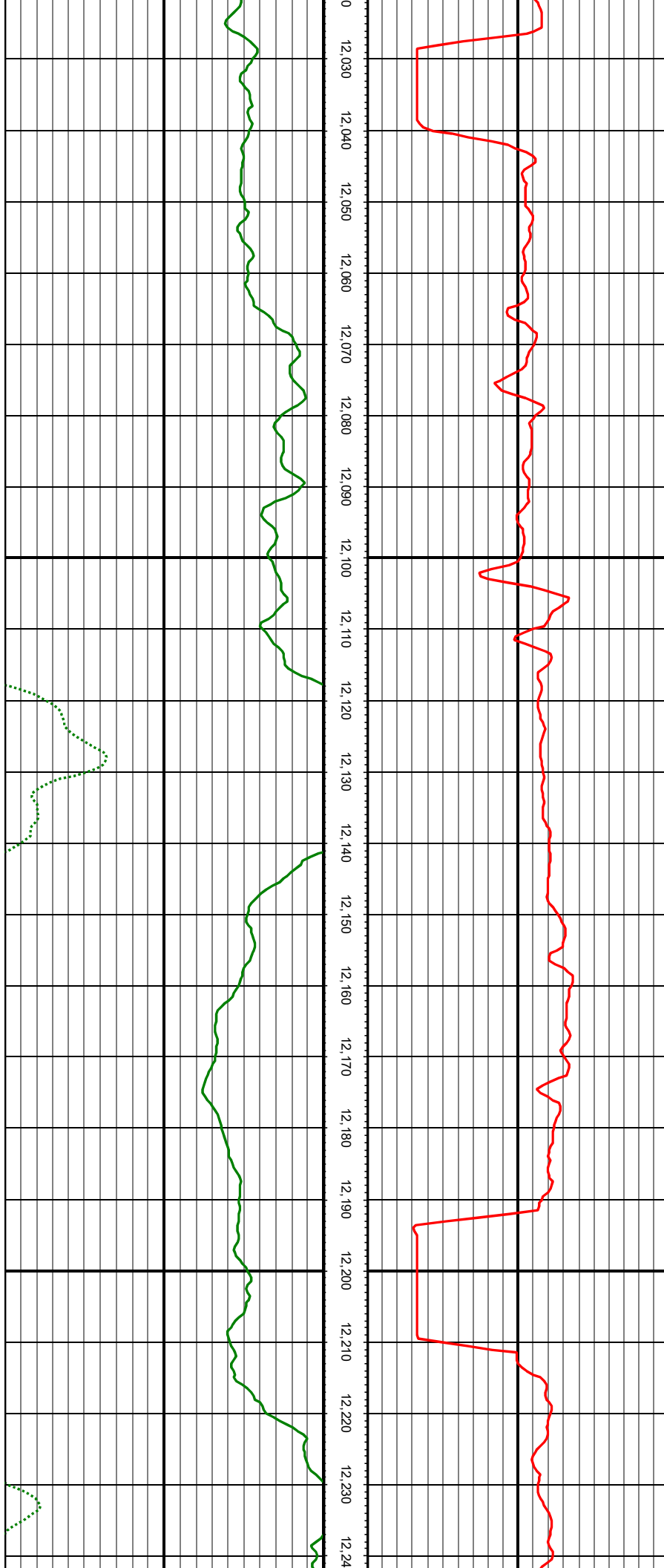
MD: 11724.00 INC: 95.56 AZ: 270.53 TVD: 6988.34 VS: 3455.31



MD: 11814.00 INC: 95.60 AZ: 271.85 TVD: 6979.59 VS: 3543.11

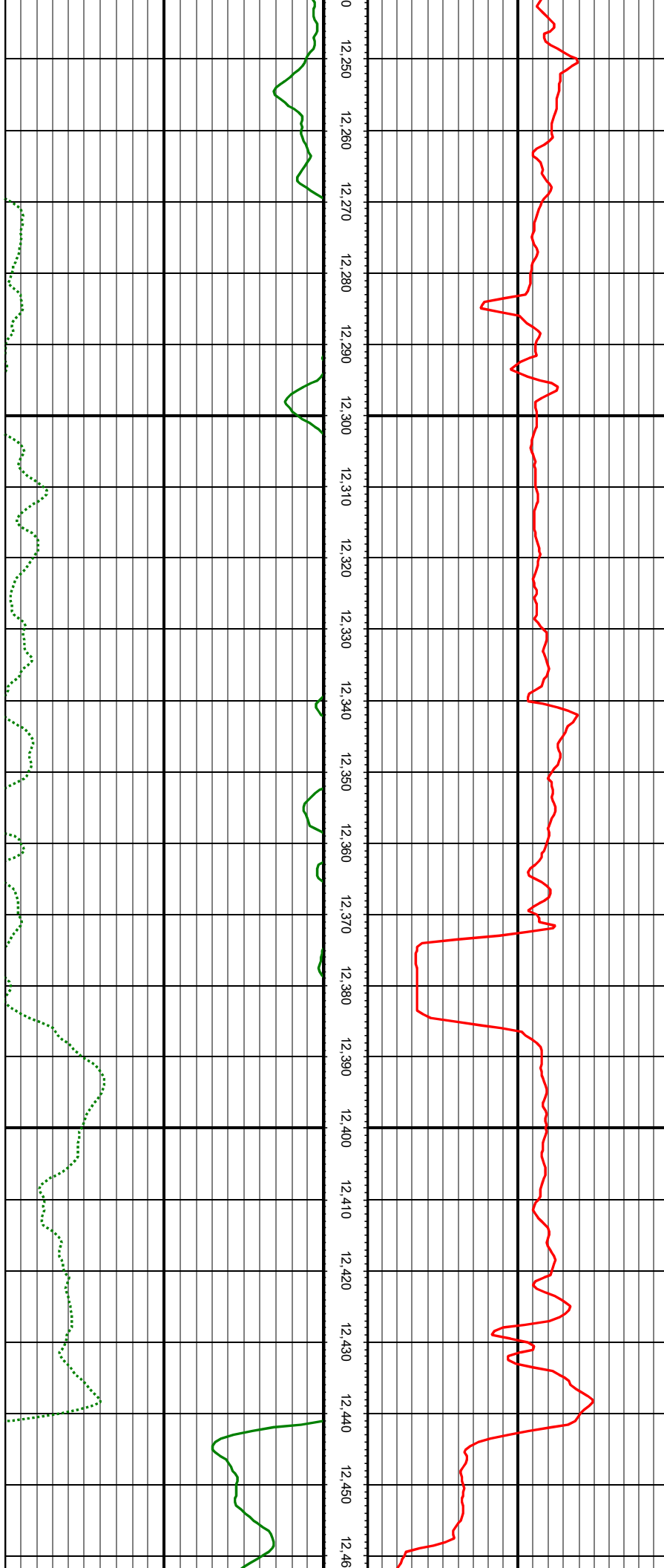
MD: 11904.00 INC: 96.13 AZ: 270.53 TVD: 6970.40 VS: 3630.87

MD: 11993.00 INC: 95.21 AZ: 269.56 TVD: 6961.60 VS: 3717.32



MD: 12083.00 INC: 95.47 AZ: 270.09 TVD: 6953.23 VS: 3804.71

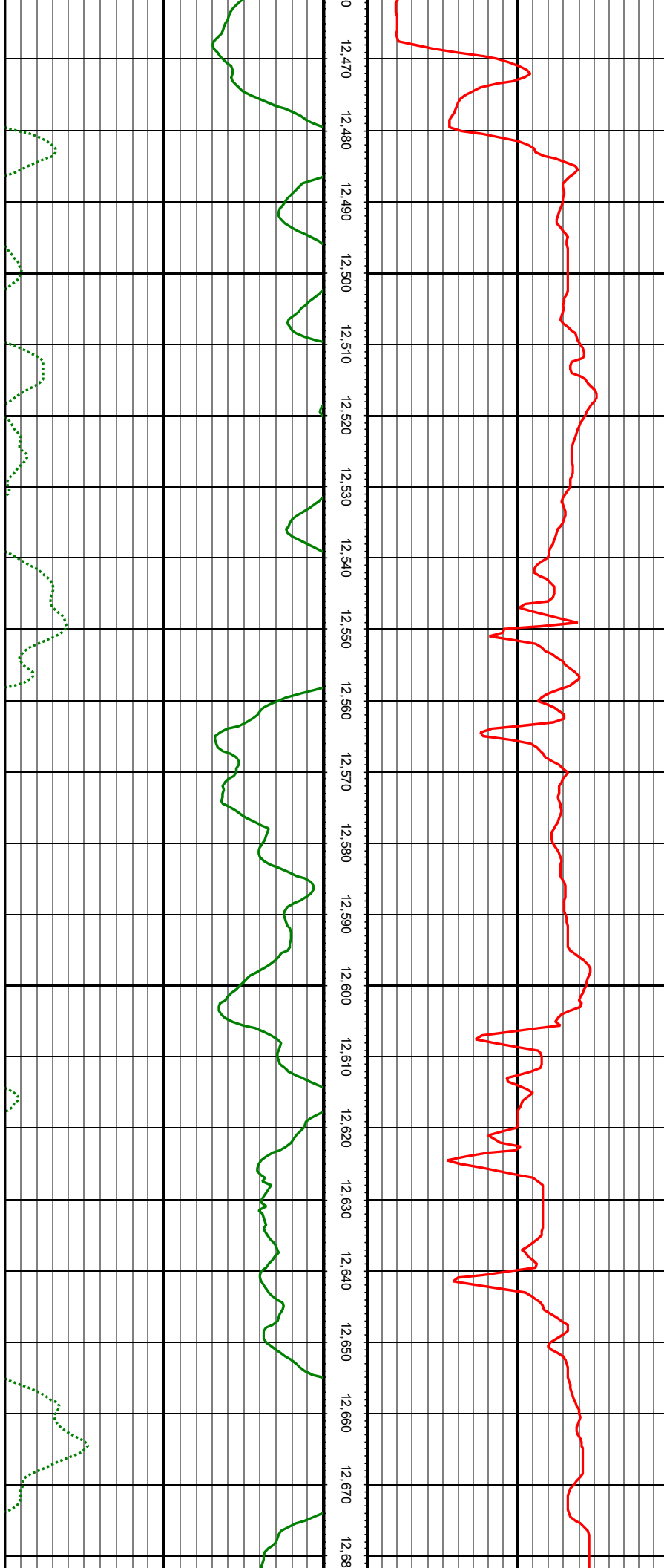
MD: 12173.00 INC: 95.43 AZ: 270.09 TVD: 6944.68 VS: 3892.18



MD: 12262.00 INC: 96.35 AZ: 271.67 TVD: 6935.55 VS: 3978.87

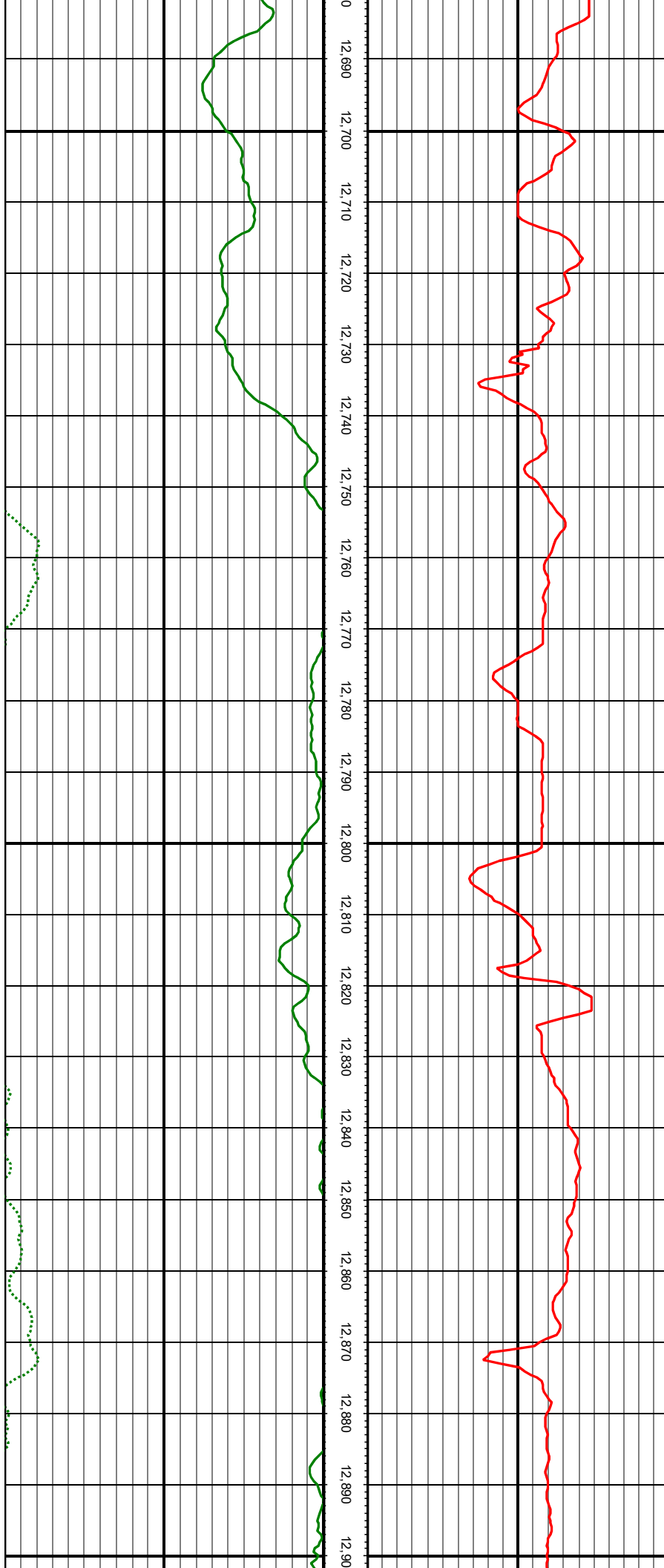
MD: 12352.00 INC: 96.13 AZ: 271.32 TVD: 6925.76 VS: 4066.66

MD: 12441.00 INC: 96.13 AZ: 271.76 TVD: 6916.26 VS: 4153.51



MD: 12531.00 INC: 95.56 AZ: 270.27 TVD: 6907.09 VS: 4241.22

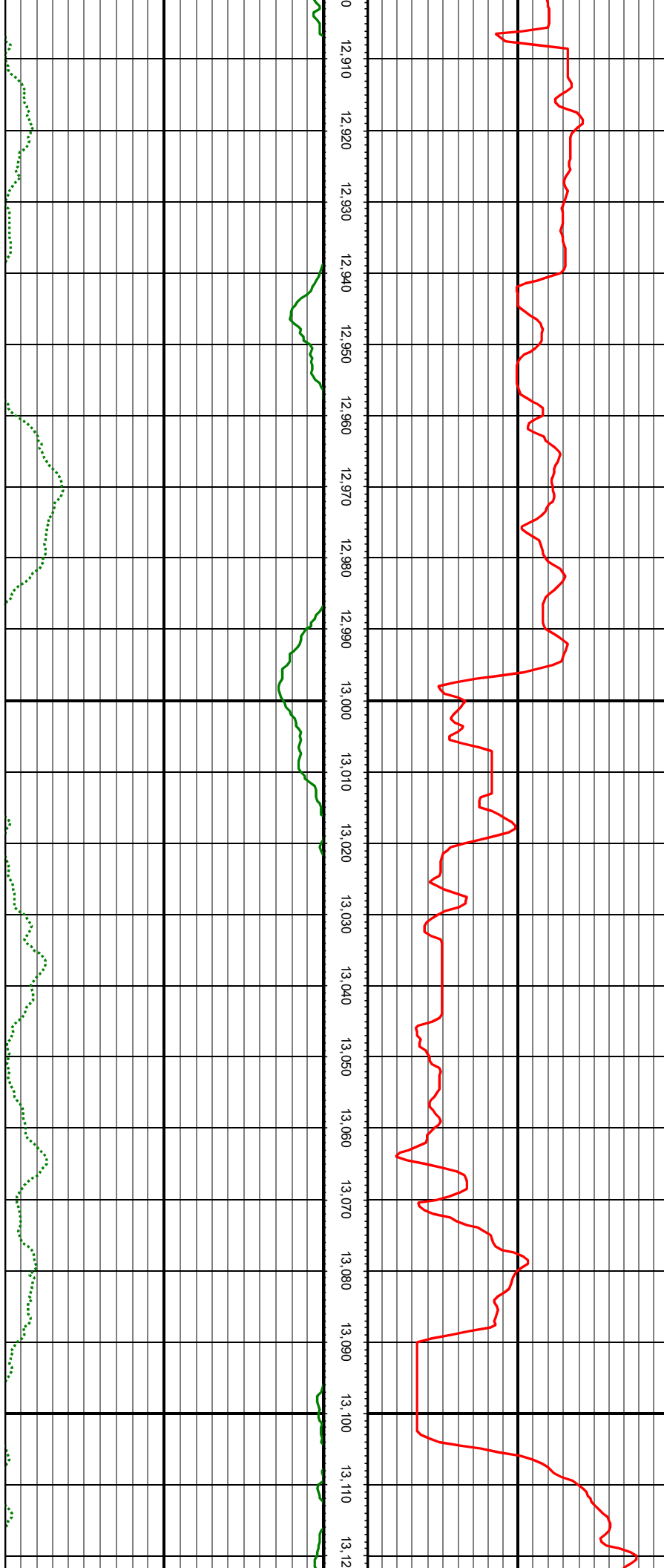
MD: 12621.00 INC: 95.39 AZ: 269.91 TVD: 6898.51 VS: 4328.69



MD: 12711.00 INC: 95.21 AZ: 269.65 TVD: 6890.19 VS: 4416.07

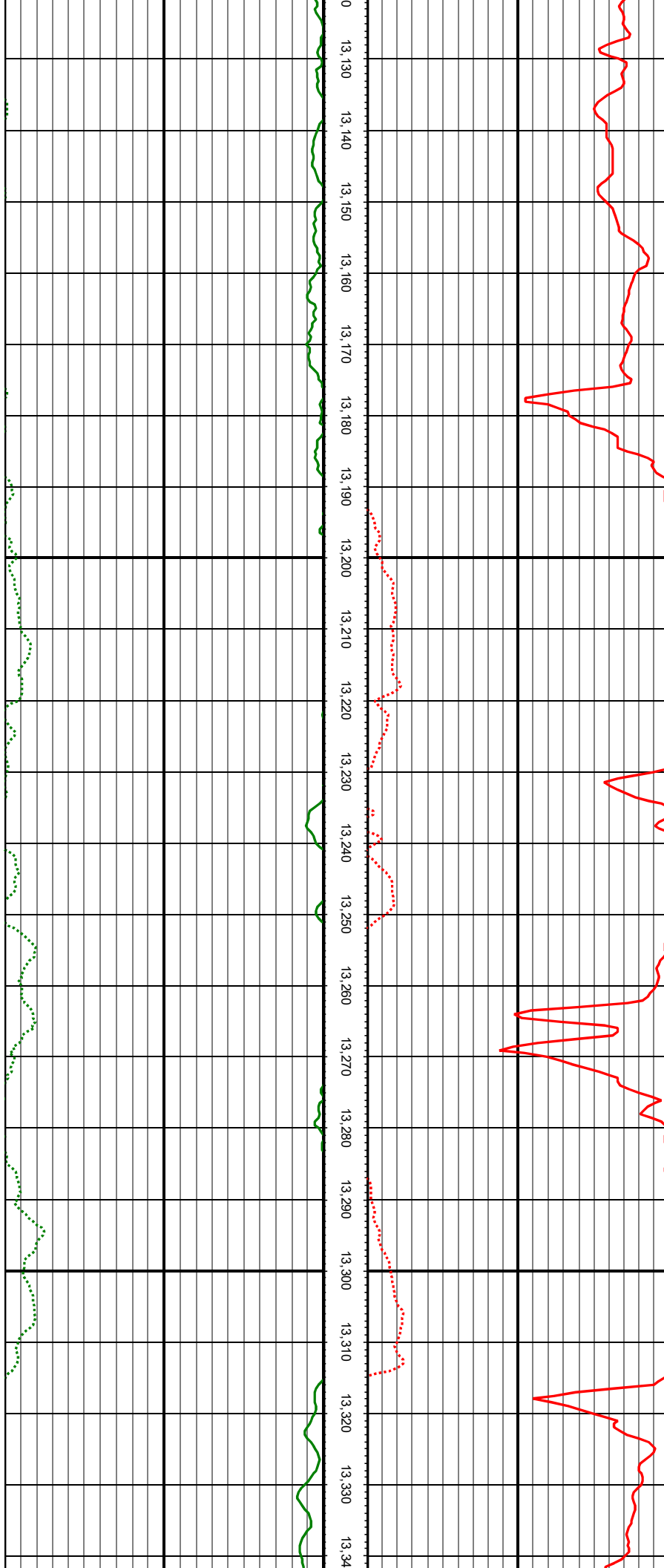
MD: 12800.00 INC: 95.87 AZ: 271.15 TVD: 6881.60 VS: 4502.65

MD: 12890.00 INC: 93.89 AZ: 270.97 TVD: 6873.94 VS: 4590.51



MD: 12980.00 INC: 93.93 AZ: 270.79 TVD: 6867.81 VS: 4678.44

MD: 13069.00 INC: 93.14 AZ: 270.09 TVD: 6862.32 VS: 4765.28



MD: 13159.00 INC: 91.08 AZ: 268.51 TVD: 6859.01 VS: 4852.80

MD: 13249.00 INC: 89.19 AZ: 266.66 TVD: 6858.79 VS: 4939.72

MD: 13339.00 INC: 89.19 AZ: 268.77 TVD: 6860.07 VS: 5026.69



MD: 13428.00 INC: 90.07 AZ: 268.77 TVD: 6860.64 VS: 5113.11

MD: 13518.00 INC: 90.11 AZ: 268.77 TVD: 6860.50 VS: 5200.51



MD: 13608.00 INC: 90.02 AZ: 268.51 TVD: 6860.40 VS: 5287.85

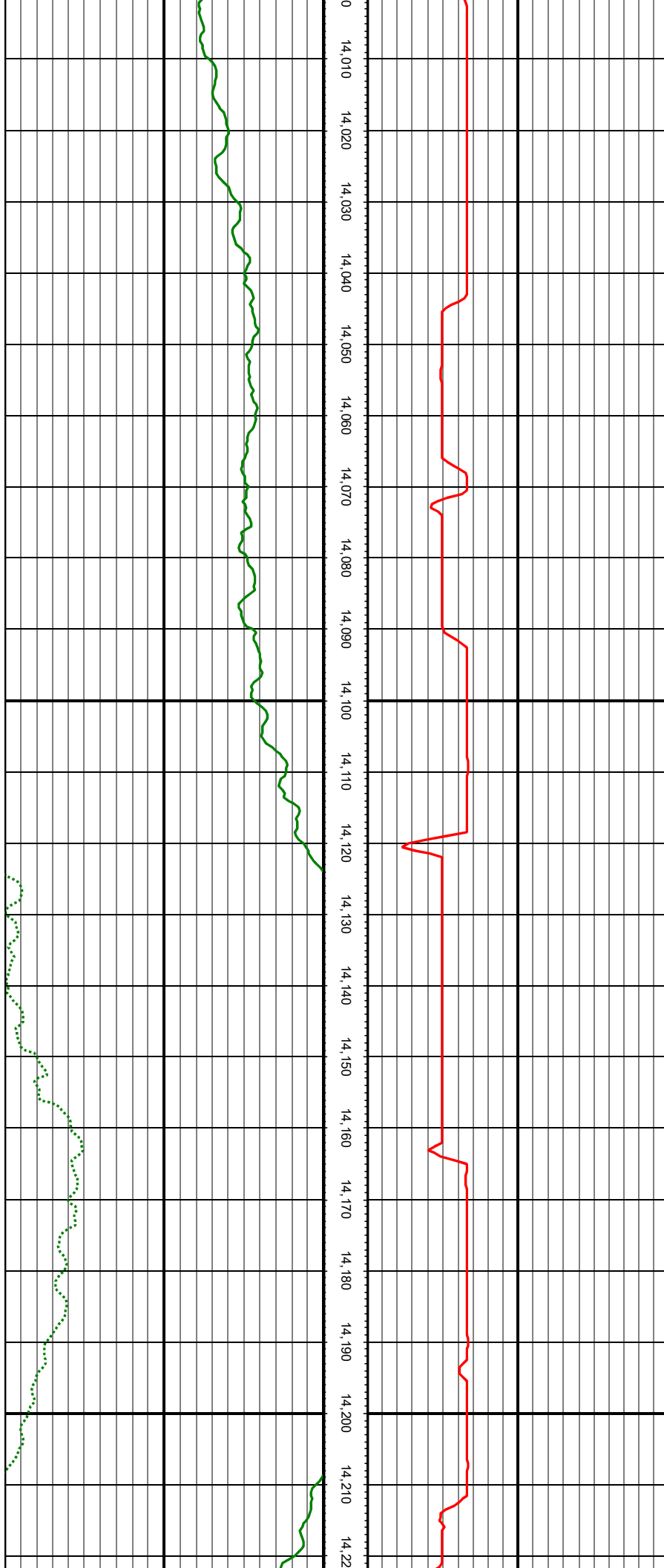
MD: 13697.00 INC: 89.32 AZ: 268.33 TVD: 6860.91 VS: 5374.14

MD: 13787.00 INC: 89.14 AZ: 267.98 TVD: 6862.12 VS: 5461.29

MD: 13877.00 INC: 89.14 AZ: 268.07 TVD: 6863.47 VS: 5548.39

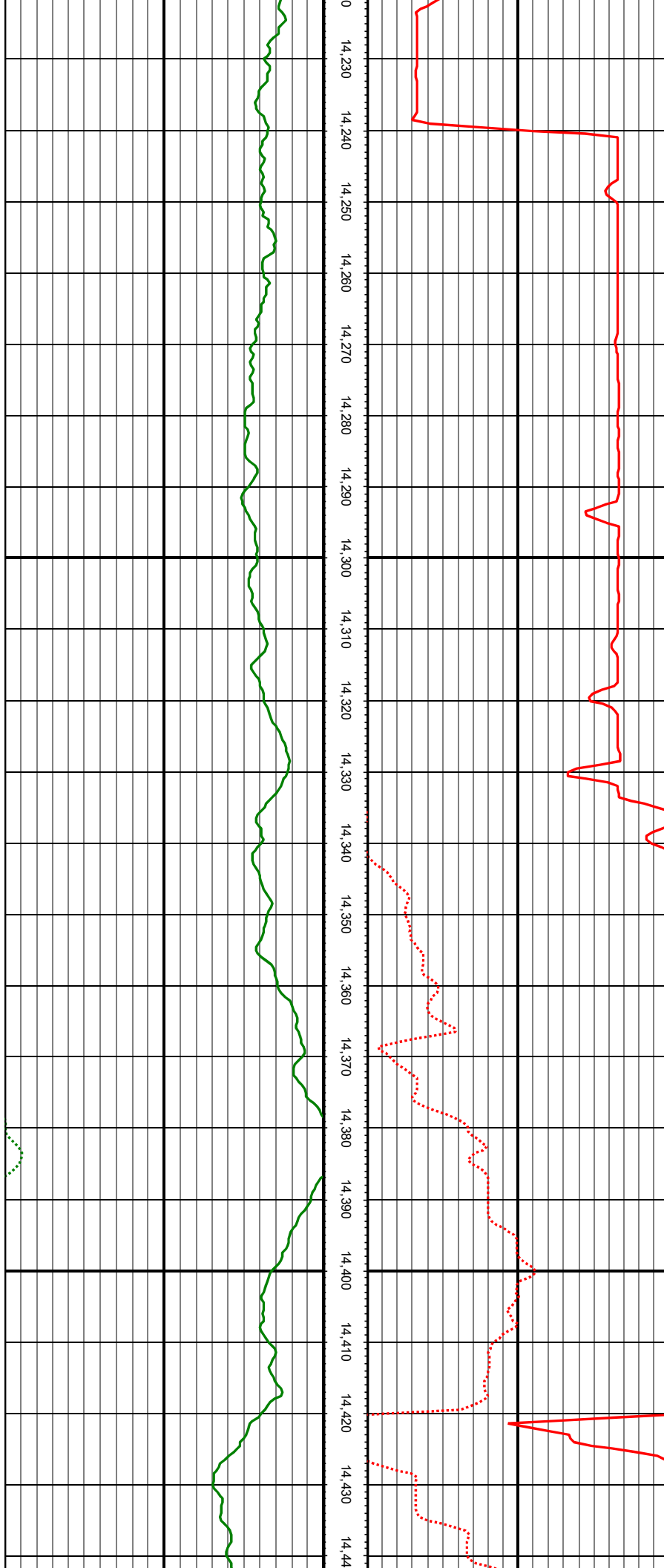
MD: 13966.00 INC: 89.85 AZ: 266.66 TVD: 6864.26 VS: 5634.26





MD: 14056.00 INC: 90.11 AZ: 266.93 TVD: 6864.29 VS: 5720.86

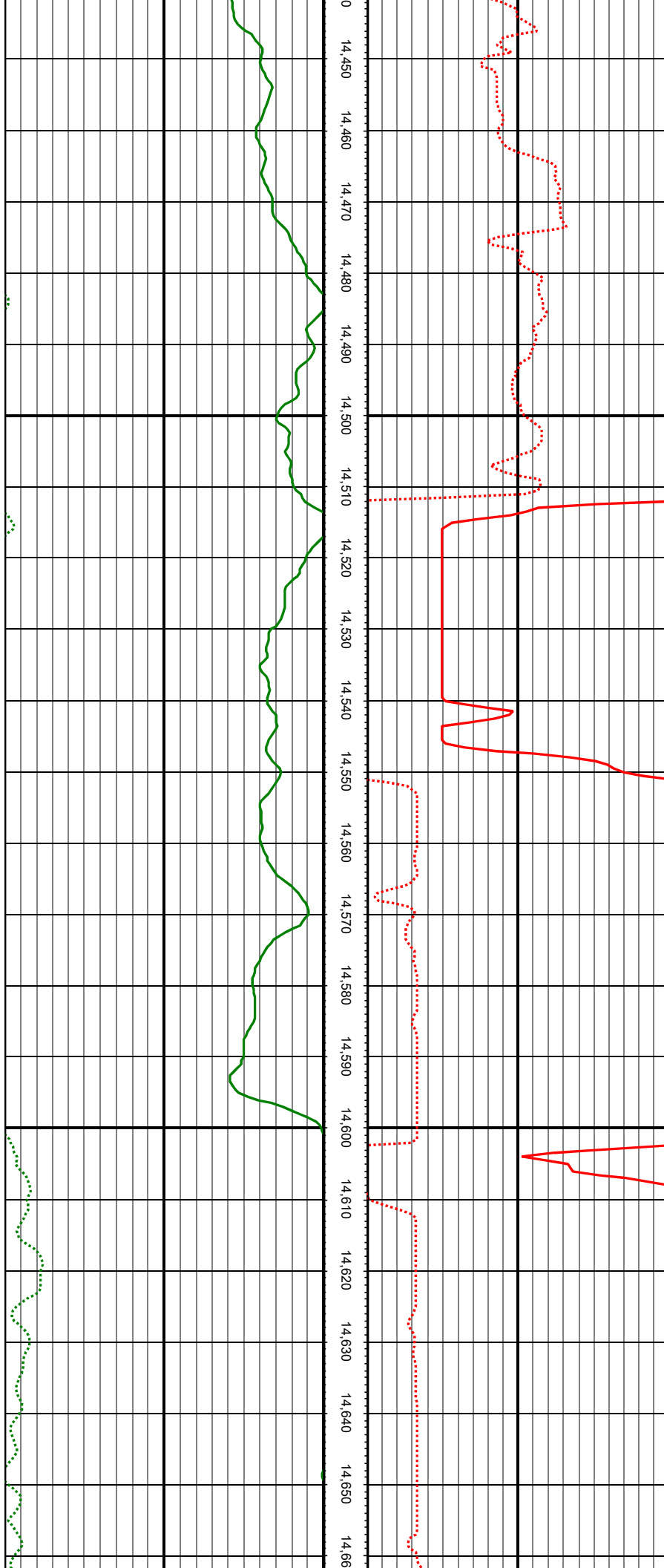
MD: 14145.00 INC: 90.02 AZ: 268.42 TVD: 6864.19 VS: 5806.86



MD: 14235.00 INC: 90.07 AZ: 270.35 TVD: 6864.12 VS: 5894.48

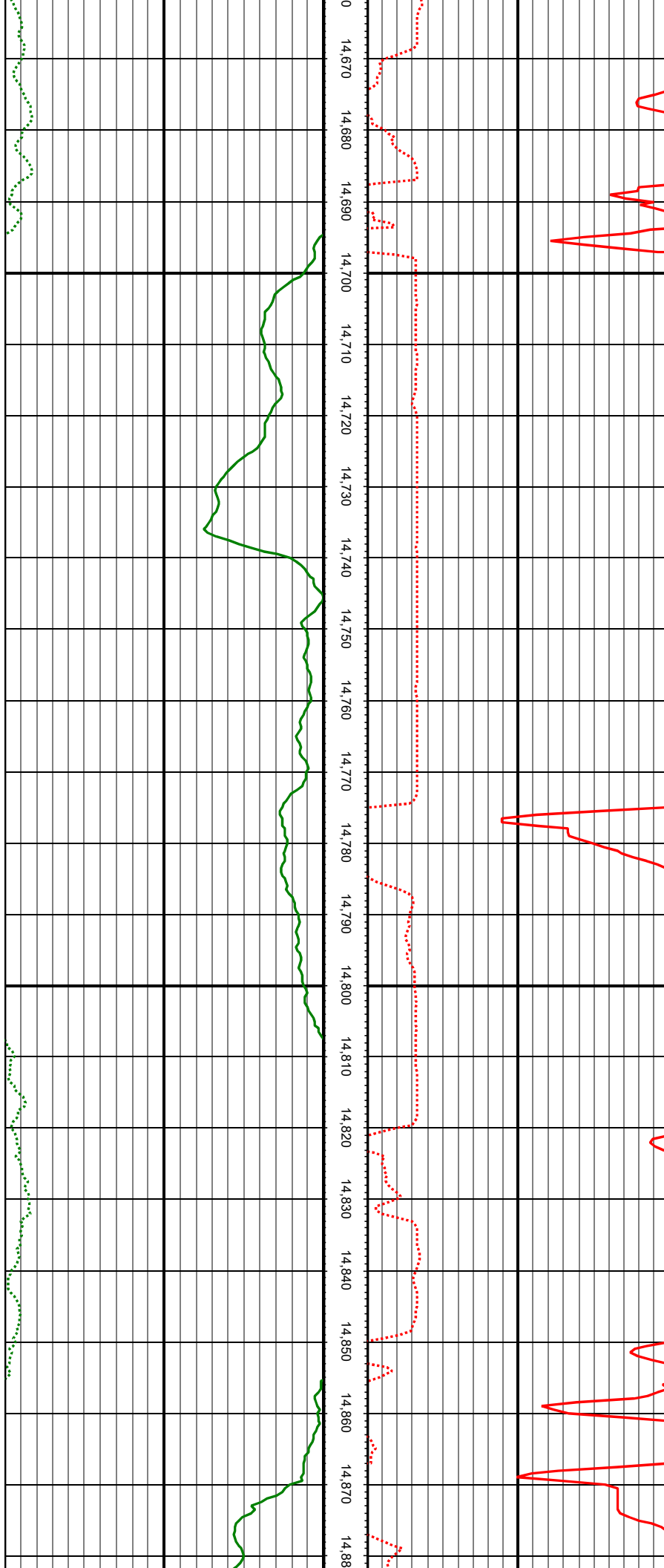
MD: 14325.00 INC: 90.02 AZ: 270.62 TVD: 6864.04 VS: 5982.48

MD: 14415.00 INC: 90.11 AZ: 270.62 TVD: 6863.94 VS: 6070.52



MD: 14504.00 INC: 90.02 AZ: 269.83 TVD: 6863.84 VS: 6157.45

MD: 14594.00 INC: 89.98 AZ: 269.91 TVD: 6863.84 VS: 6245.25



MD: 14684.00 INC: 90.02 AZ: 269.39 TVD: 6863.84 VS: 6332.96

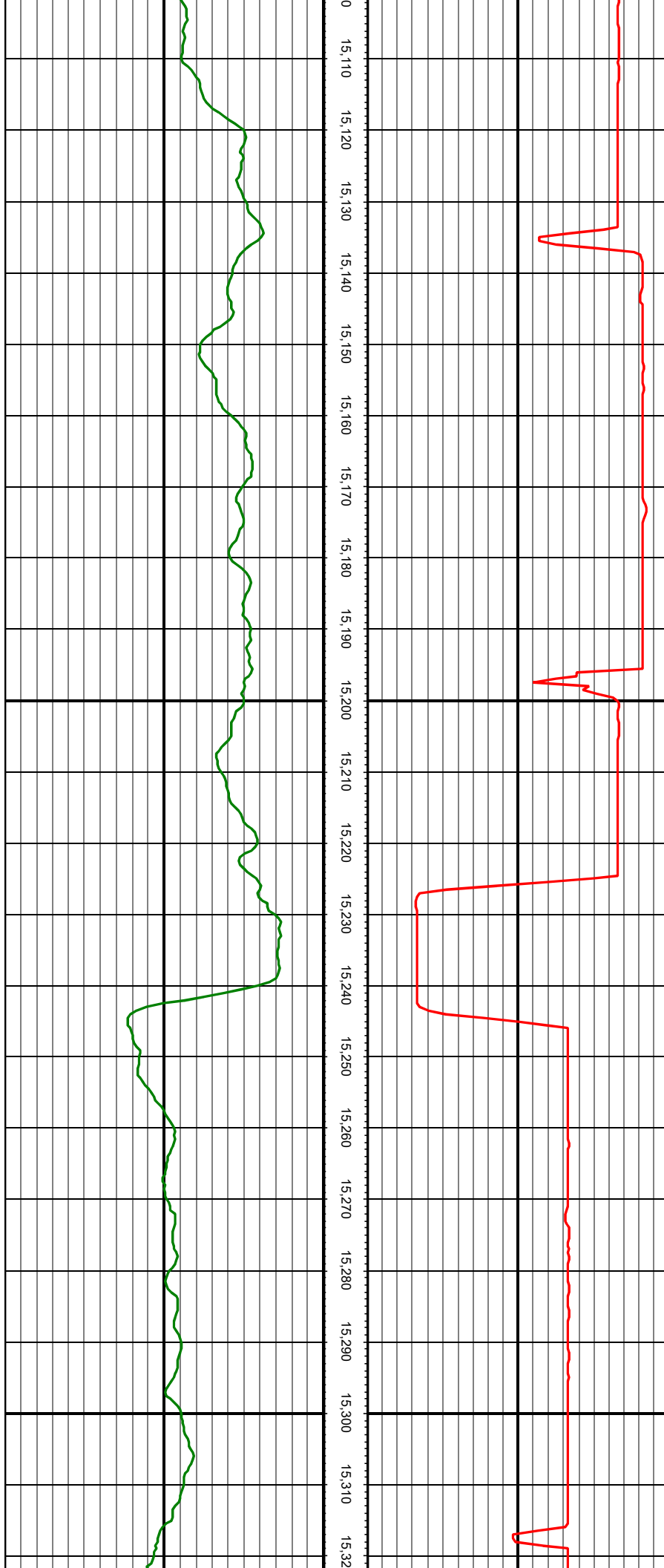
MD: 14774.00 INC: 90.15 AZ: 270.35 TVD: 6863.71 VS: 6420.75

MD: 14863.00 INC: 90.11 AZ: 270.88 TVD: 6863.51 VS: 6507.81



MD: 14953.00 INC: 90.15 AZ: 270.88 TVD: 6863.30 VS: 6595.94

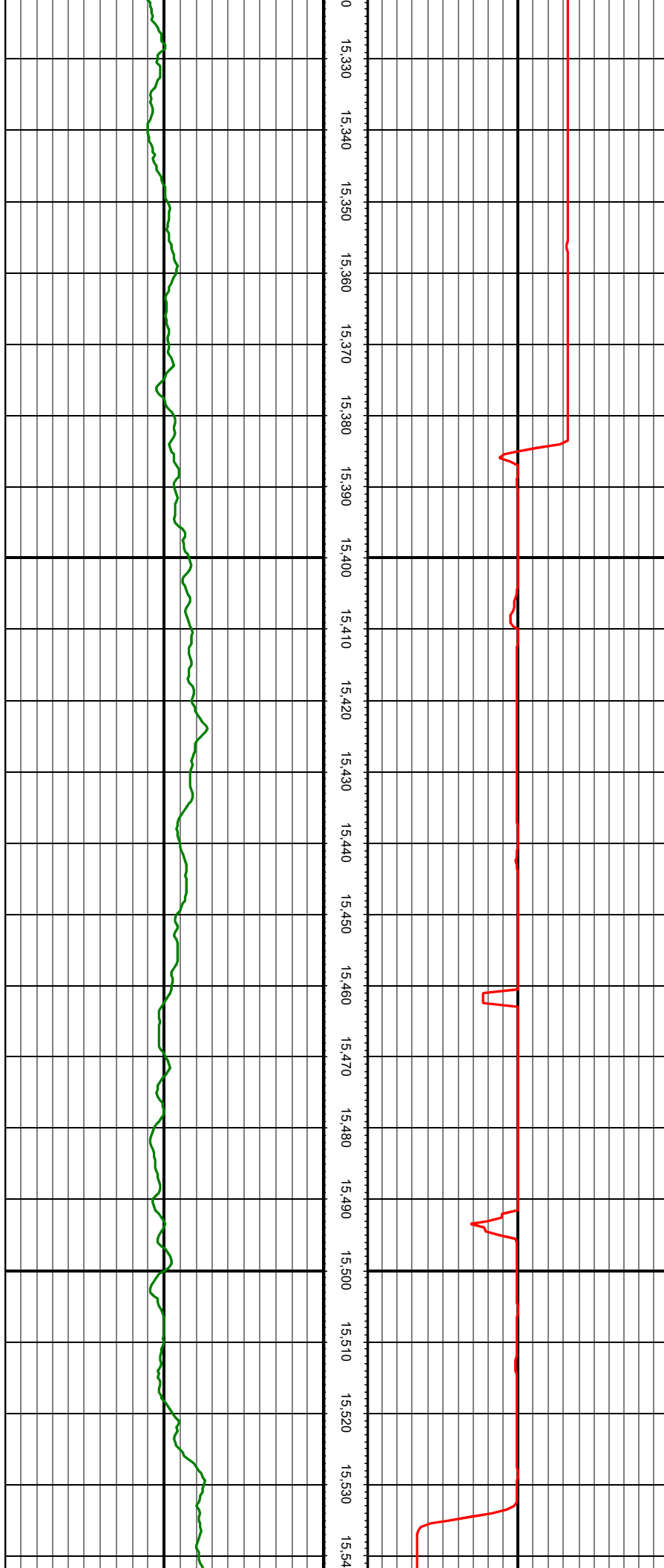
MD: 15043.00 INC: 90.15 AZ: 270.79 TVD: 6863.07 VS: 6684.05



MD: 15133.00 INC: 90.29 AZ: 270.35 TVD: 6862.72 VS: 6772.08

MD: 15223.00 INC: 90.15 AZ: 270.79 TVD: 6862.37 VS: 6860.10

MD: 15312.00 INC: 90.15 AZ: 270.44 TVD: 6862.14 VS: 6947.17



MD: 15402.00 INC: 89.45 AZ: 270.53 TVD: 6862.46 VS: 7035.16

MD: 15492.00 INC: 89.32 AZ: 270.44 TVD: 6863.42 VS: 7123.16



MD: 15582.00 INC: 90.11 AZ: 270.35 TVD: 6863.87 VS: 7211.12

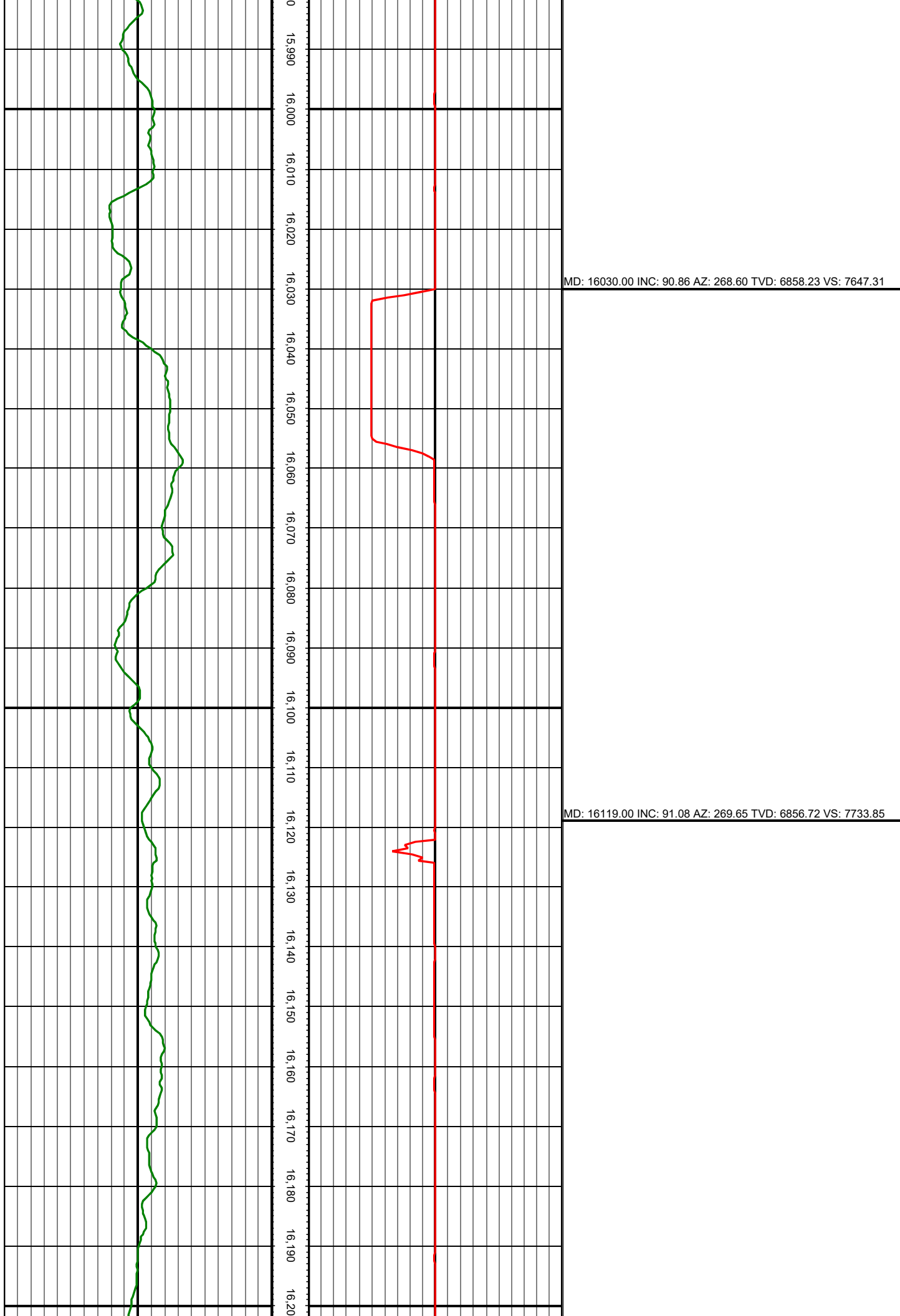
MD: 15671.00 INC: 90.15 AZ: 270.27 TVD: 6863.67 VS: 7298.09

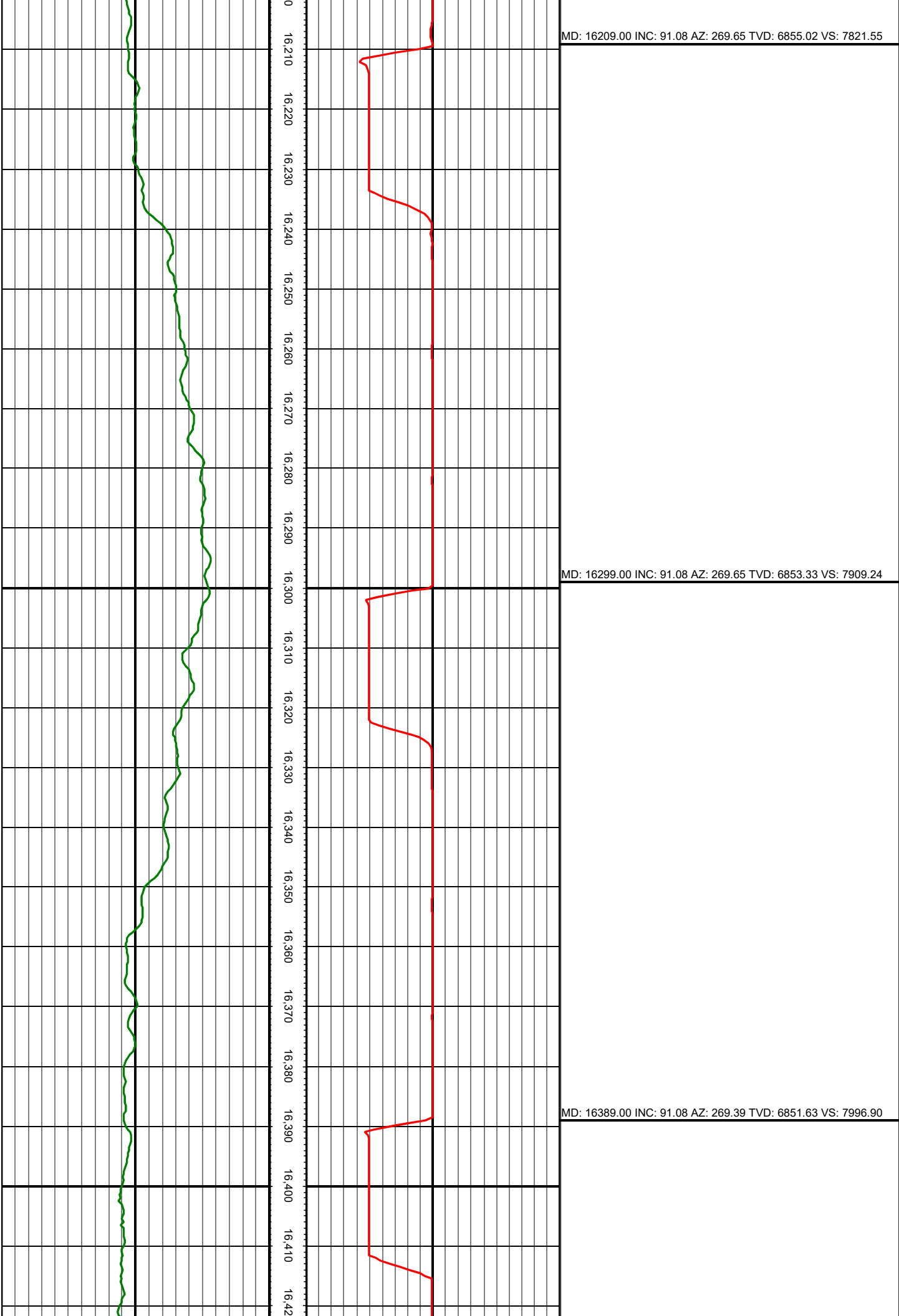
MD: 15761.00 INC: 90.95 AZ: 269.83 TVD: 6862.80 VS: 7385.94

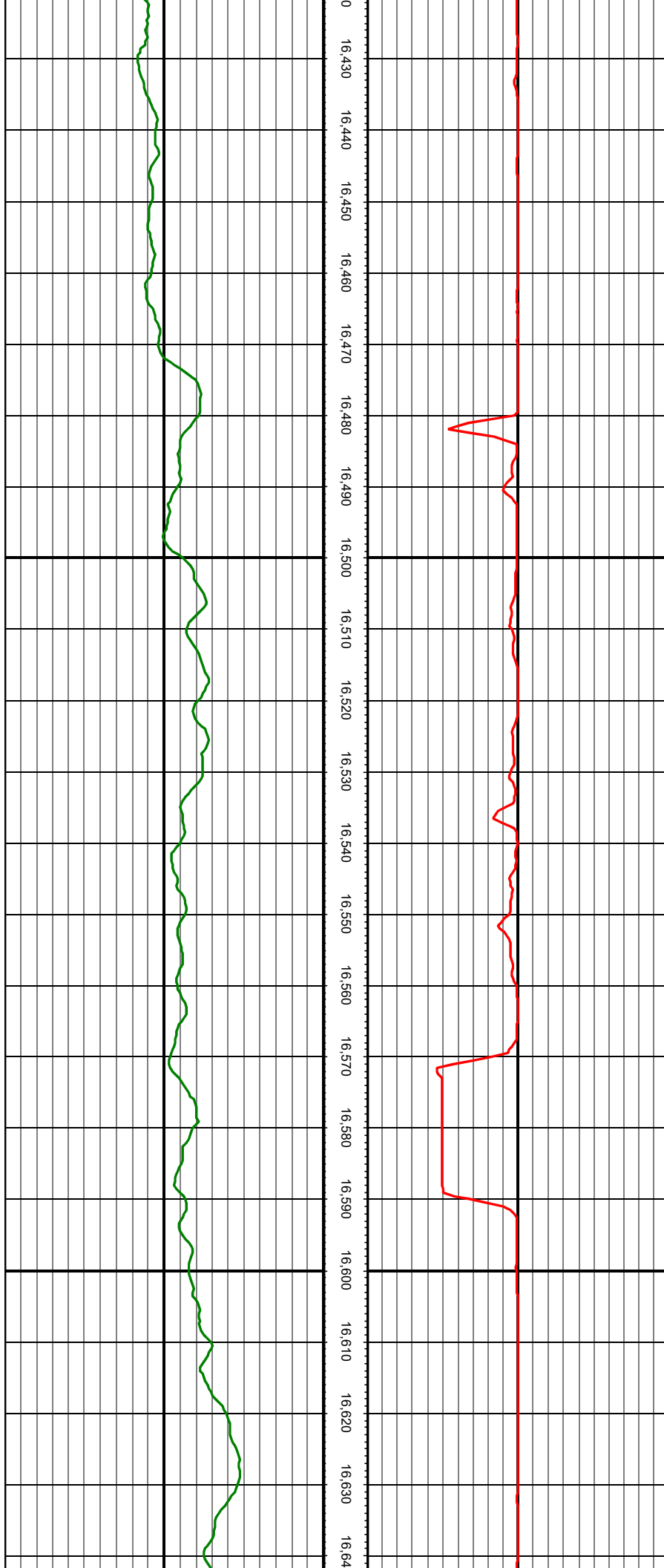


MD: 15851.00 INC: 90.99 AZ: 268.68 TVD: 6861.28 VS: 7473.50

MD: 15940.00 INC: 91.03 AZ: 268.95 TVD: 6859.71 VS: 7559.92

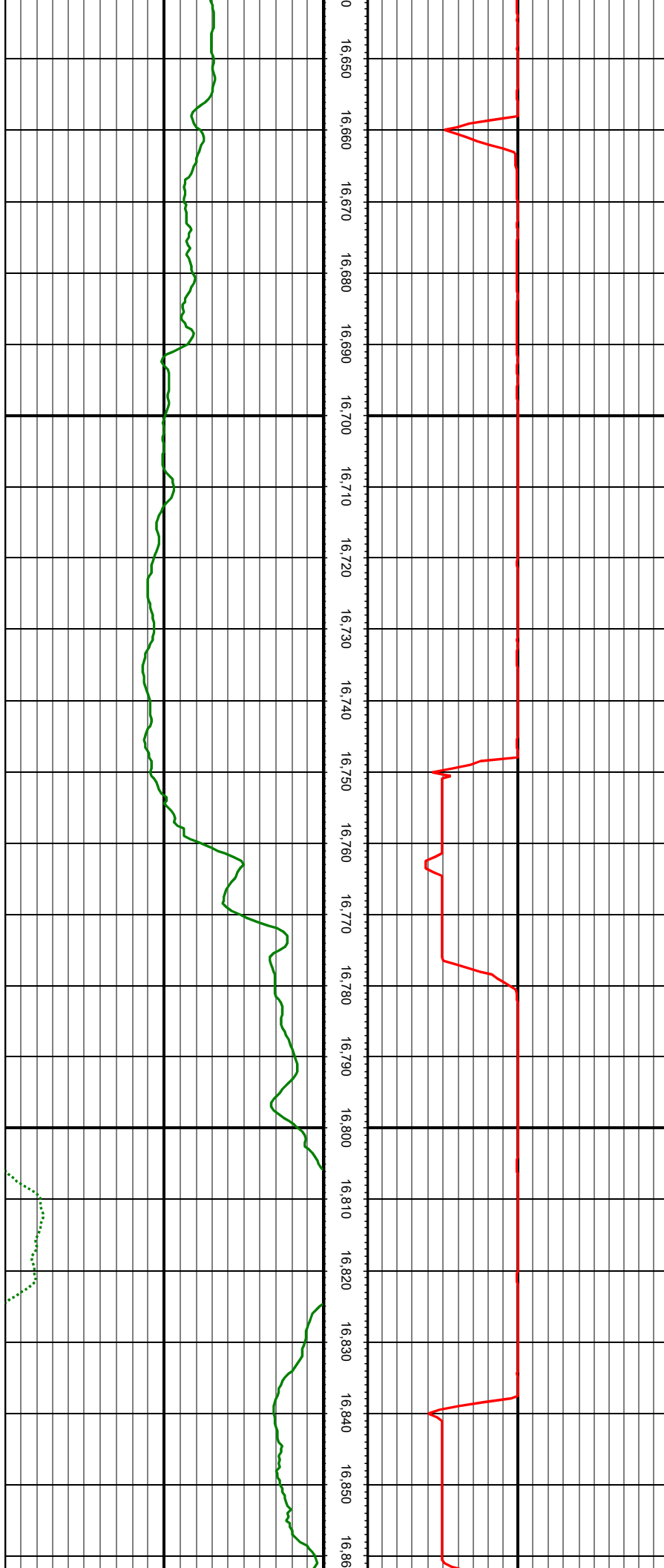






MD: 16478.00 INC: 90.15 AZ: 270.00 TVD: 6850.68 VS: 8083.65

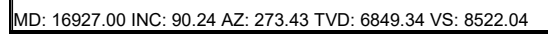
MD: 16568.00 INC: 90.15 AZ: 268.16 TVD: 6850.44 VS: 8171.15



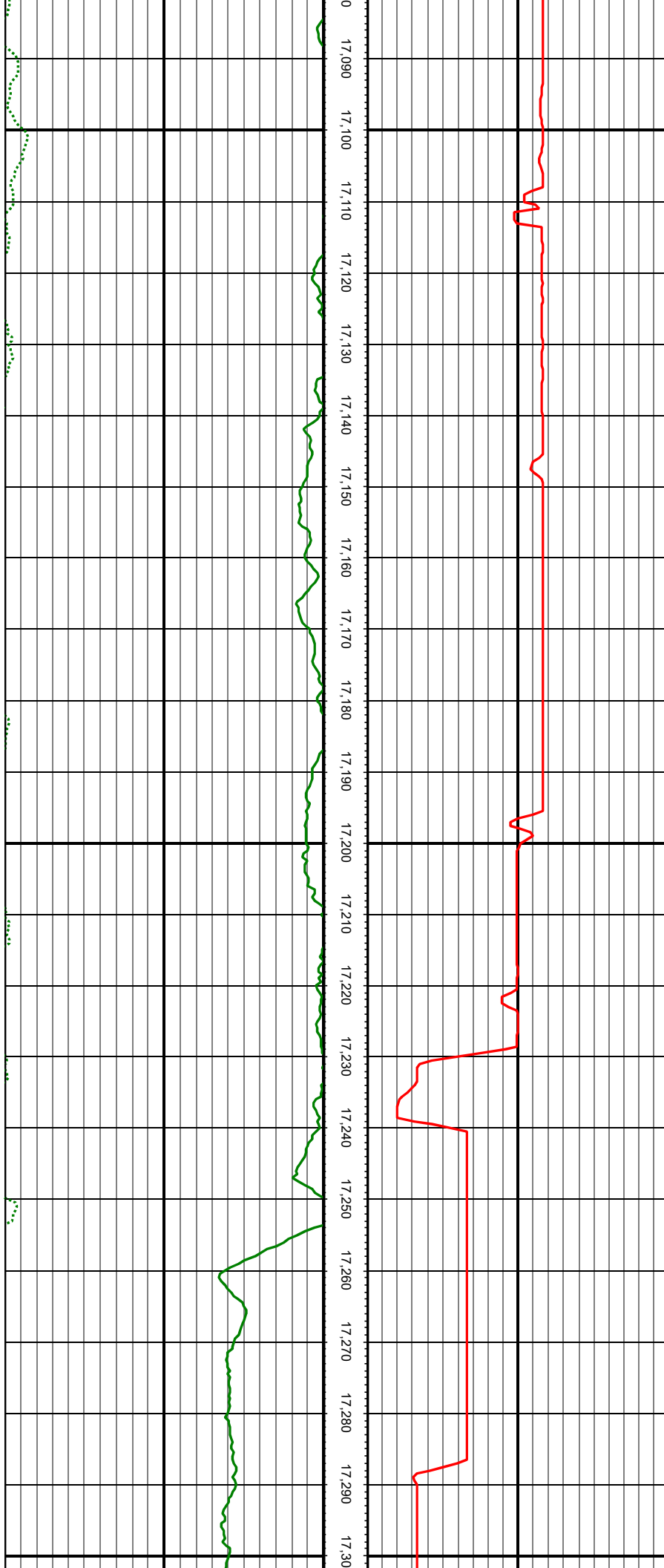
MD: 16658.00 INC: 90.11 AZ: 267.98 TVD: 6850.24 VS: 8258.28

MD: 16747.00 INC: 90.20 AZ: 270.62 TVD: 6850.00 VS: 8344.89

MD: 16837.00 INC: 90.20 AZ: 272.81 TVD: 6849.68 VS: 8433.26



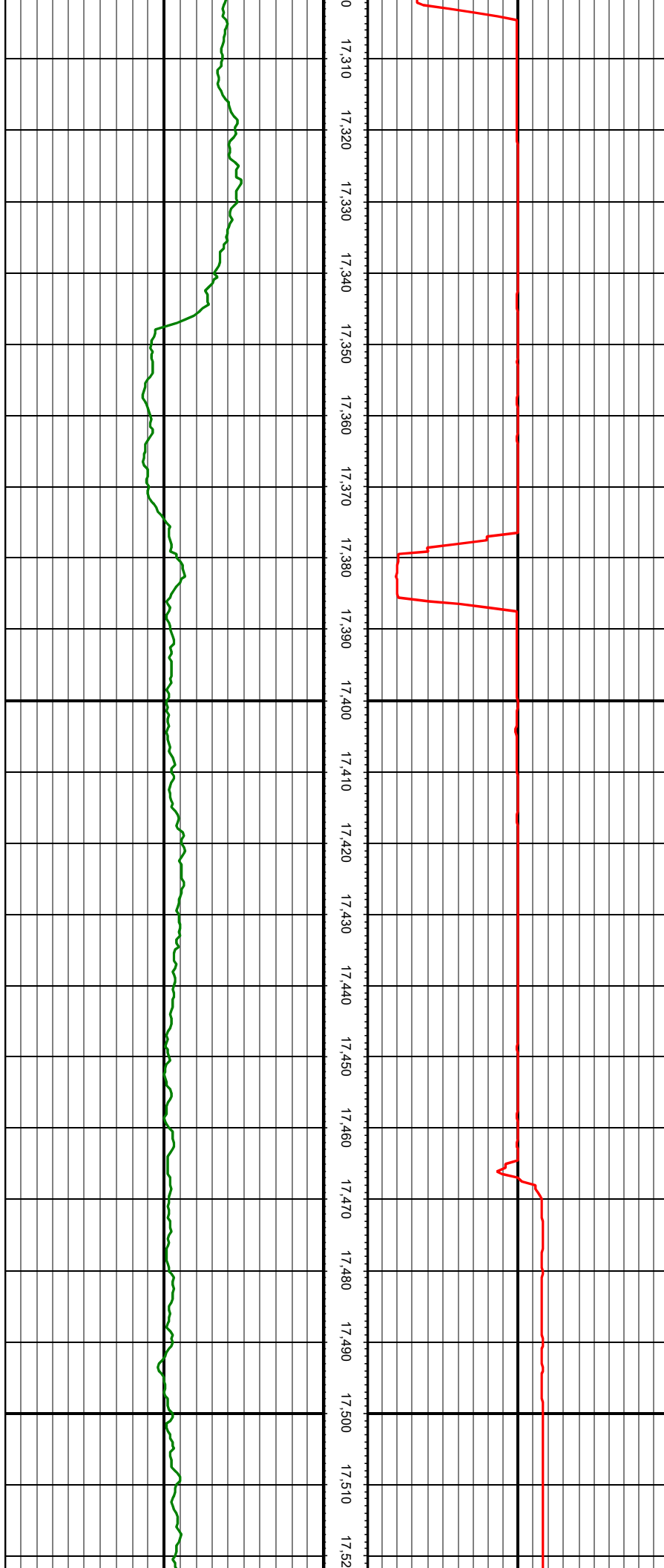
MD: 17016.00 INC: 90.15 AZ: 273.52 TVD: 6849.03 VS: 8609.91



MD: 17106.00 INC: 89.58 AZ: 273.87 TVD: 6849.24 VS: 8698.83

MD: 17196.00 INC: 89.71 AZ: 273.96 TVD: 6849.80 VS: 8787.80

MD: 17285.00 INC: 89.89 AZ: 273.61 TVD: 6850.11 VS: 8875.75

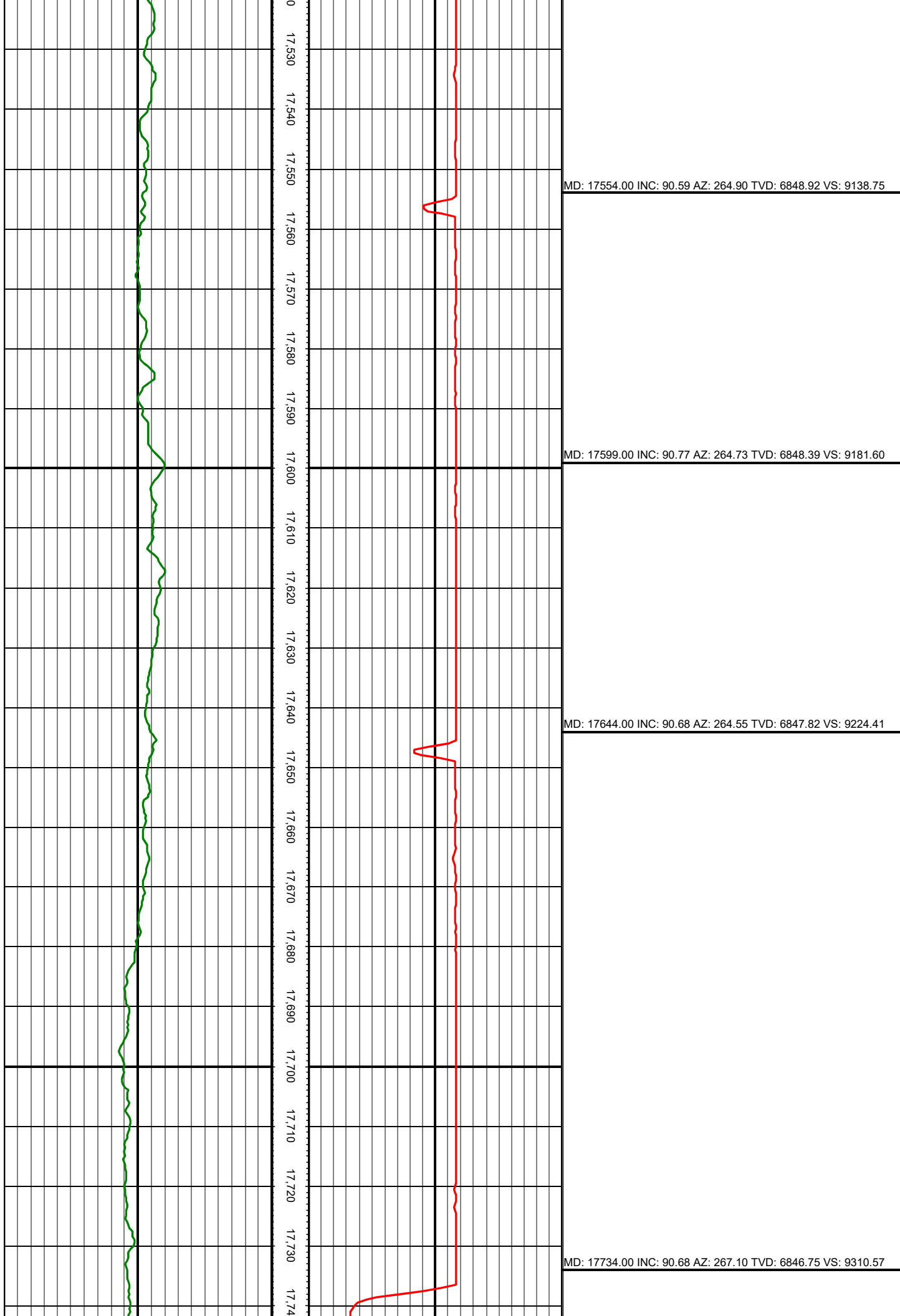


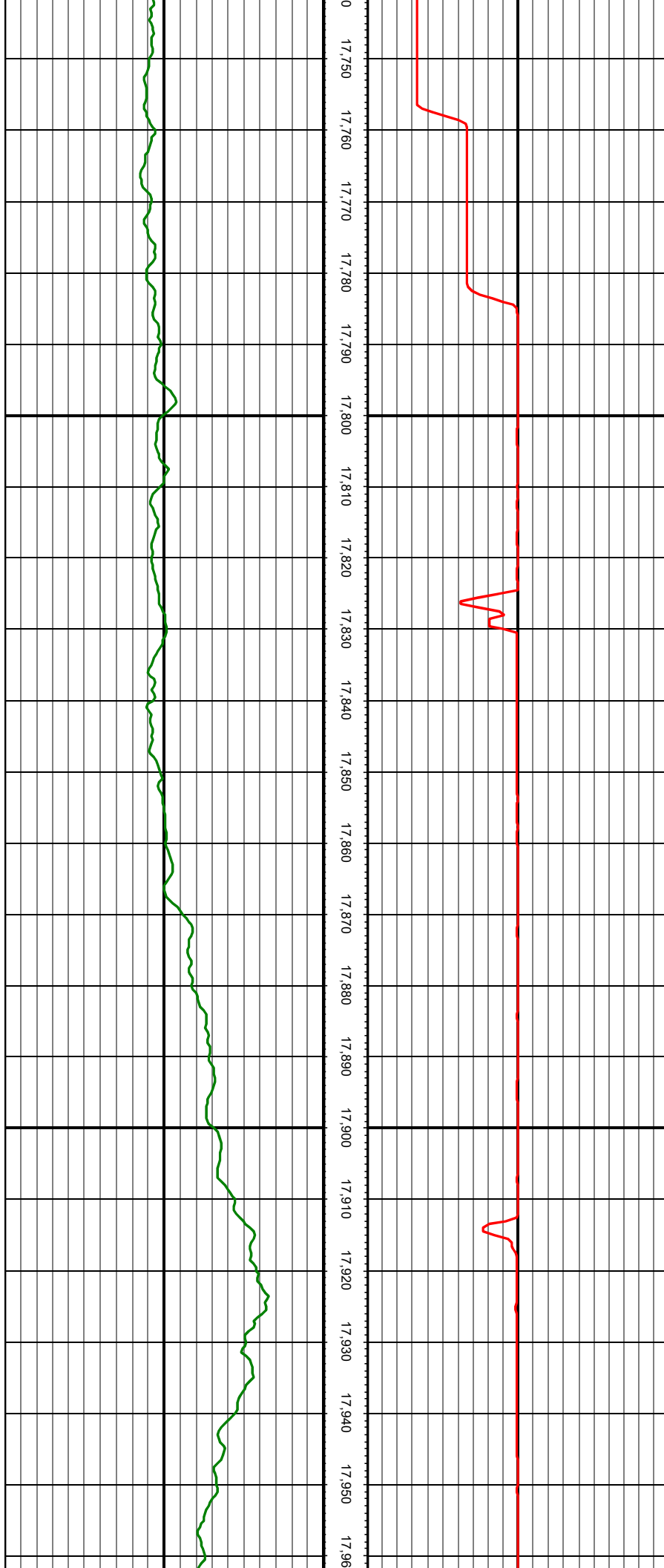
MD: 17375.00 INC: 90.46 AZ: 272.99 TVD: 6849.84 VS: 8964.57

MD: 17420.00 INC: 89.80 AZ: 271.50 TVD: 6849.74 VS: 9008.83

MD: 17464.00 INC: 90.11 AZ: 270.18 TVD: 6849.77 VS: 9051.91

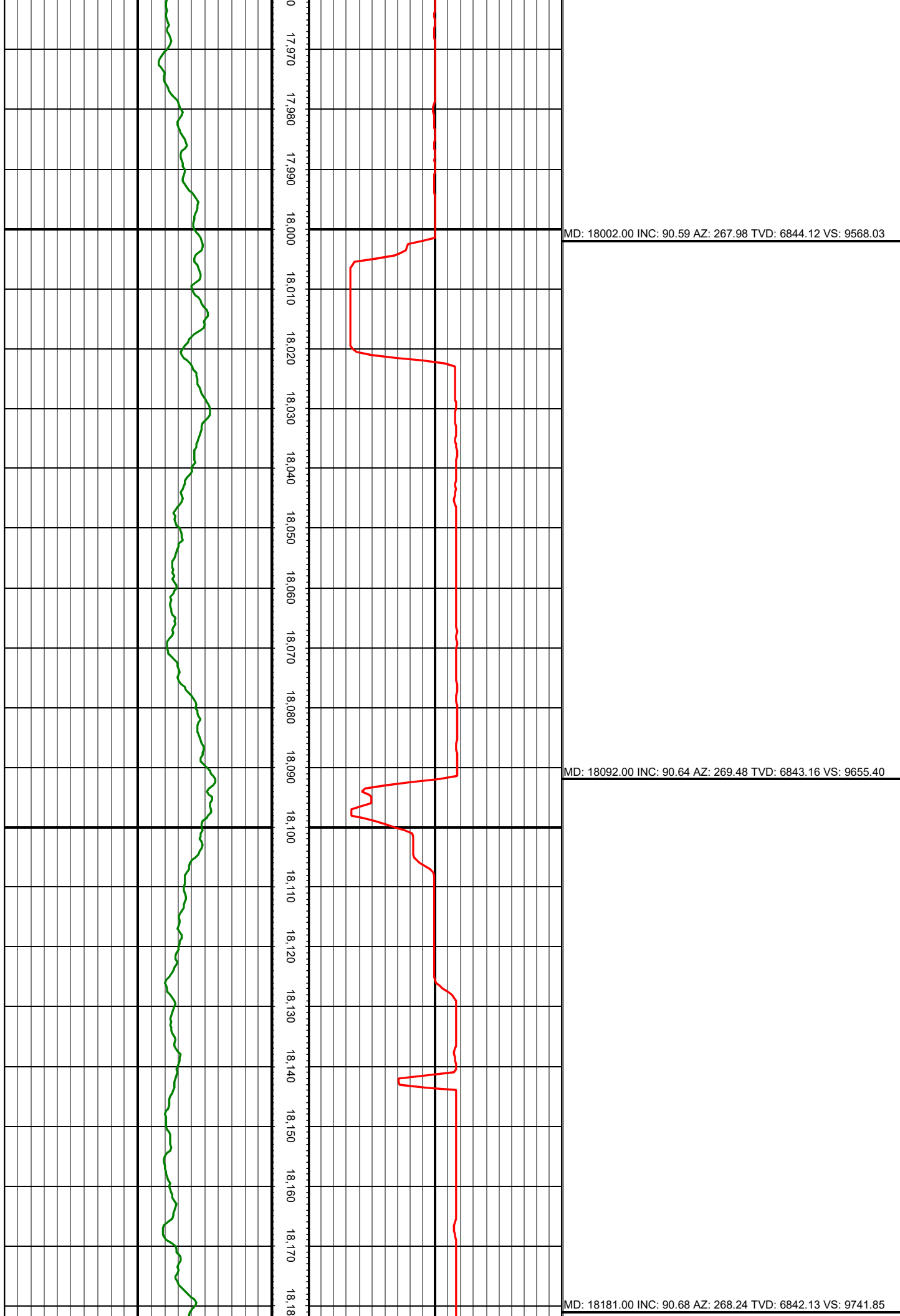
MD: 17509.00 INC: 90.73 AZ: 267.37 TVD: 6849.44 VS: 9095.60





MD: 17823.00 INC: 90.46 AZ: 266.14 TVD: 6845.87 VS: 9396.13

MD: 17913.00 INC: 90.59 AZ: 265.78 TVD: 6845.04 VS: 9482.36





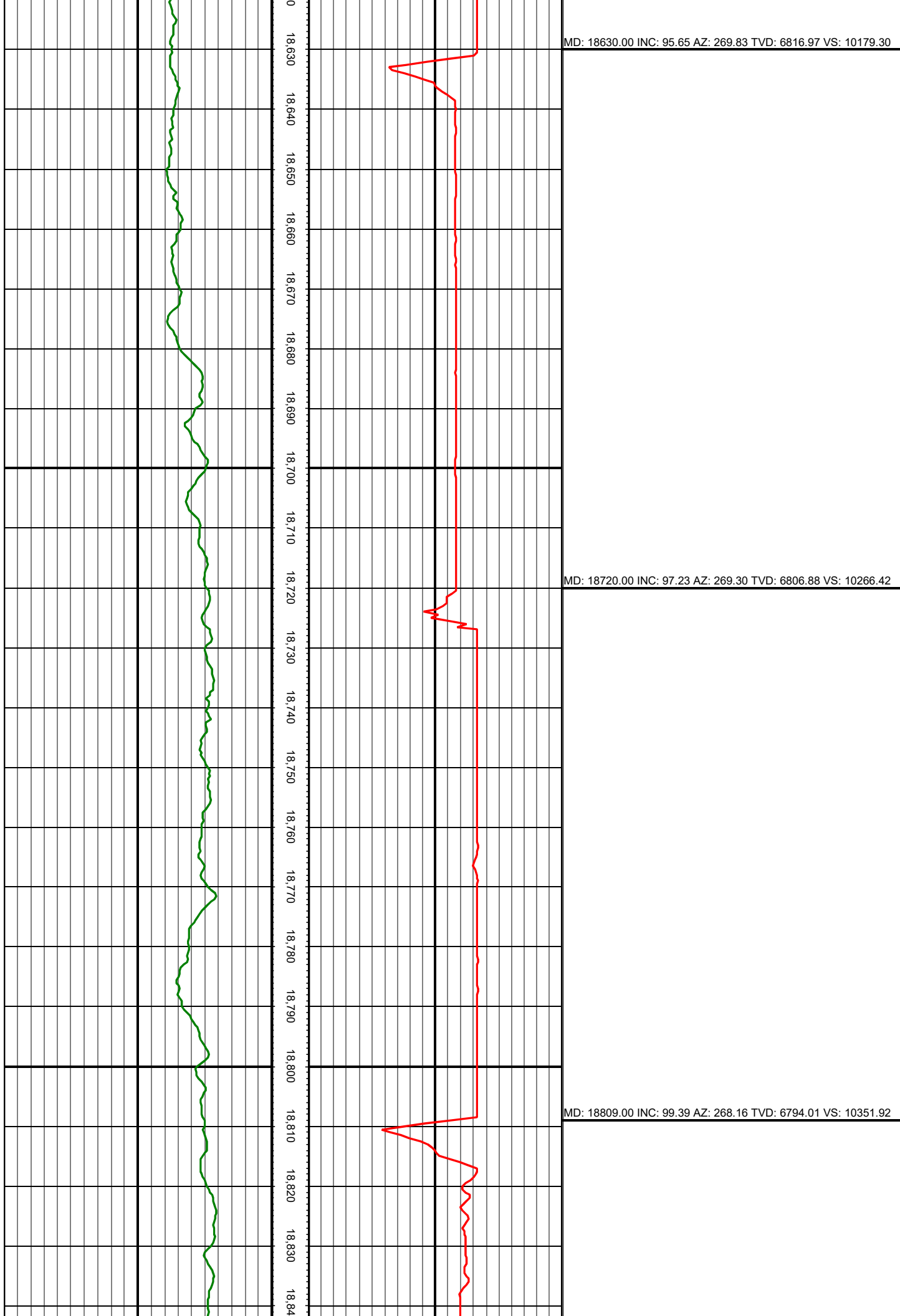
MD: 18271.00 INC: 91.34 AZ: 269.83 TVD: 6840.55 VS: 9829.32

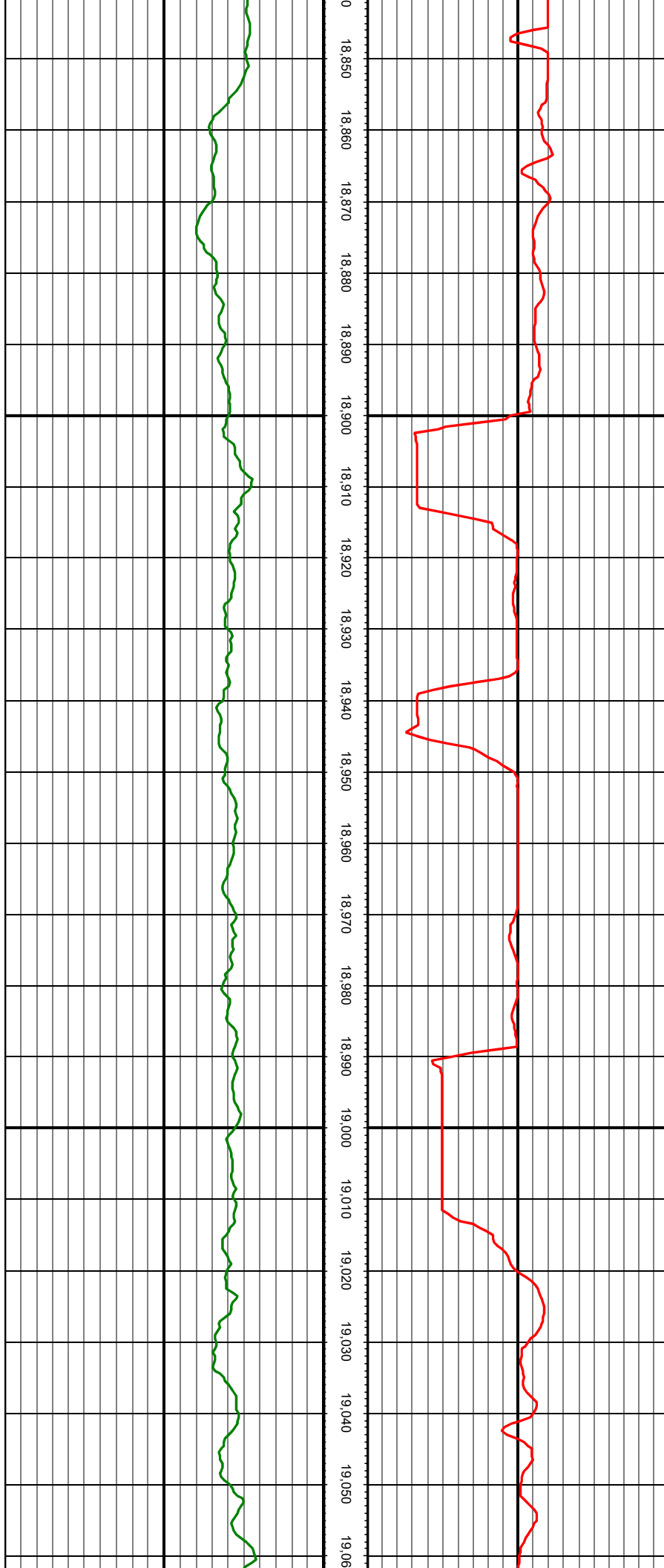
MD: 18361.00 INC: 92.44 AZ: 271.58 TVD: 6837.58 VS: 9917.34



MD: 18451.00 INC: 93.67 AZ: 270.97 TVD: 6832.78 VS: 10005.46

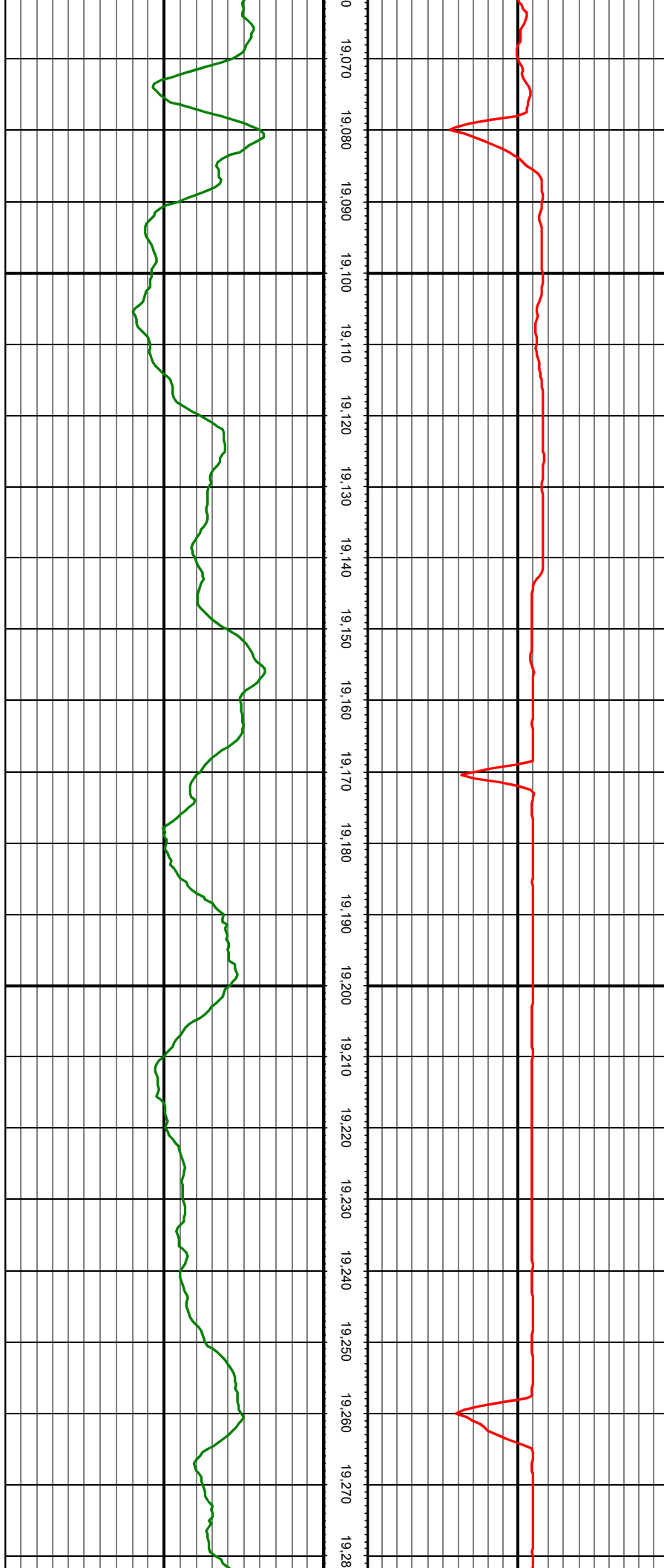
MD: 18540.00 INC: 95.47 AZ: 269.12 TVD: 6825.69 VS: 10092.06





MD: 18899.00 INC: 100.04 AZ: 266.14 TVD: 6778.82 VS: 10437.42

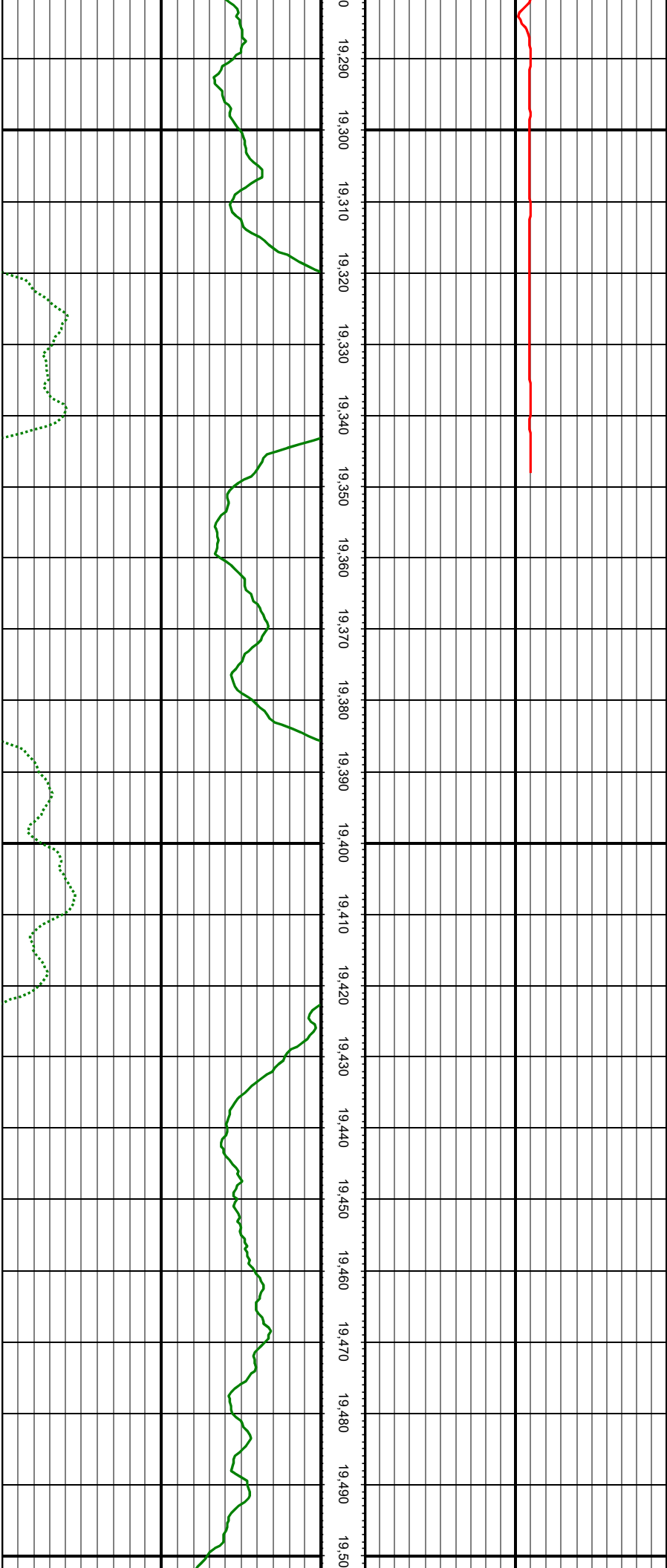
MD: 18989.00 INC: 102.29 AZ: 269.74 TVD: 6761.39 VS: 10522.83

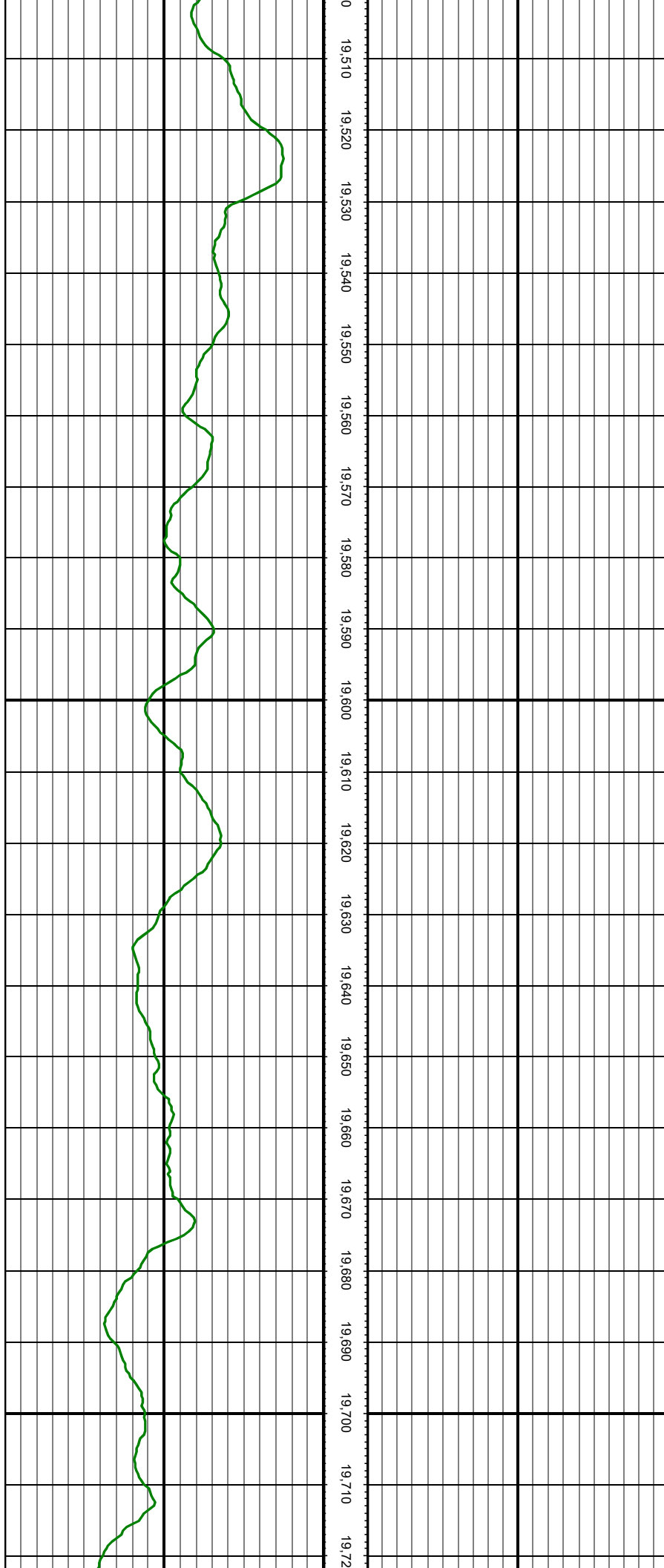


MD: 19078.00 INC: 101.06 AZ: 271.50 TVD: 6743.38 VS: 10608.08

MD: 19168.00 INC: 100.88 AZ: 270.27 TVD: 6726.25 VS: 10694.60

MD: 19258.00 INC: 101.45 AZ: 269.48 TVD: 6708.83 VS: 10780.73





MD: 19527.00 INC: 102.20 AZ: 272.99 TVD: 6650.94 VS: 11038.37

MD: 19616.00 INC: 101.98 AZ: 272.29 TVD: 6632.30 VS: 11124.08

MD: 19706.00 INC: 102.37 AZ: 271.67 TVD: 6613.32 VS: 11210.55

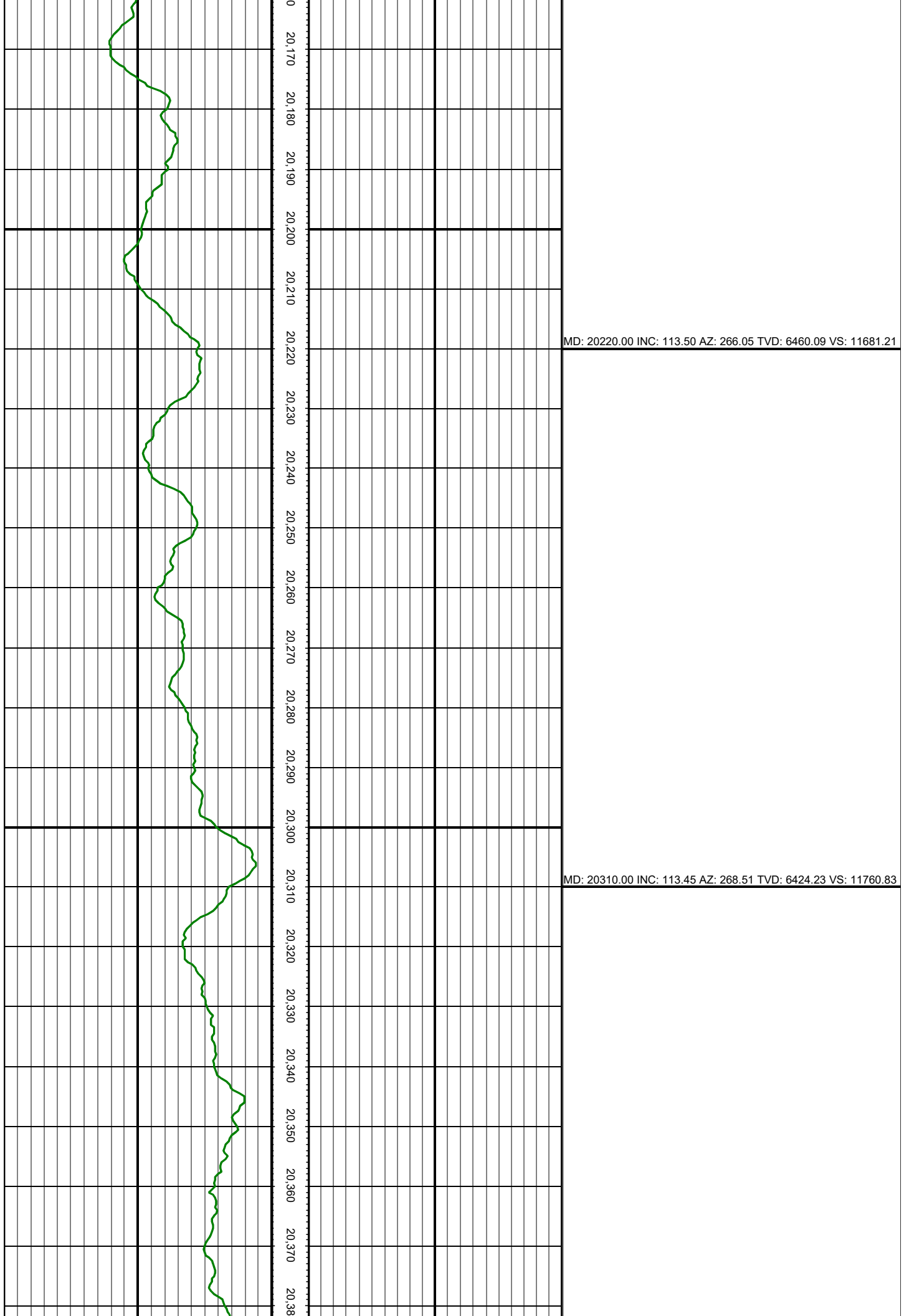


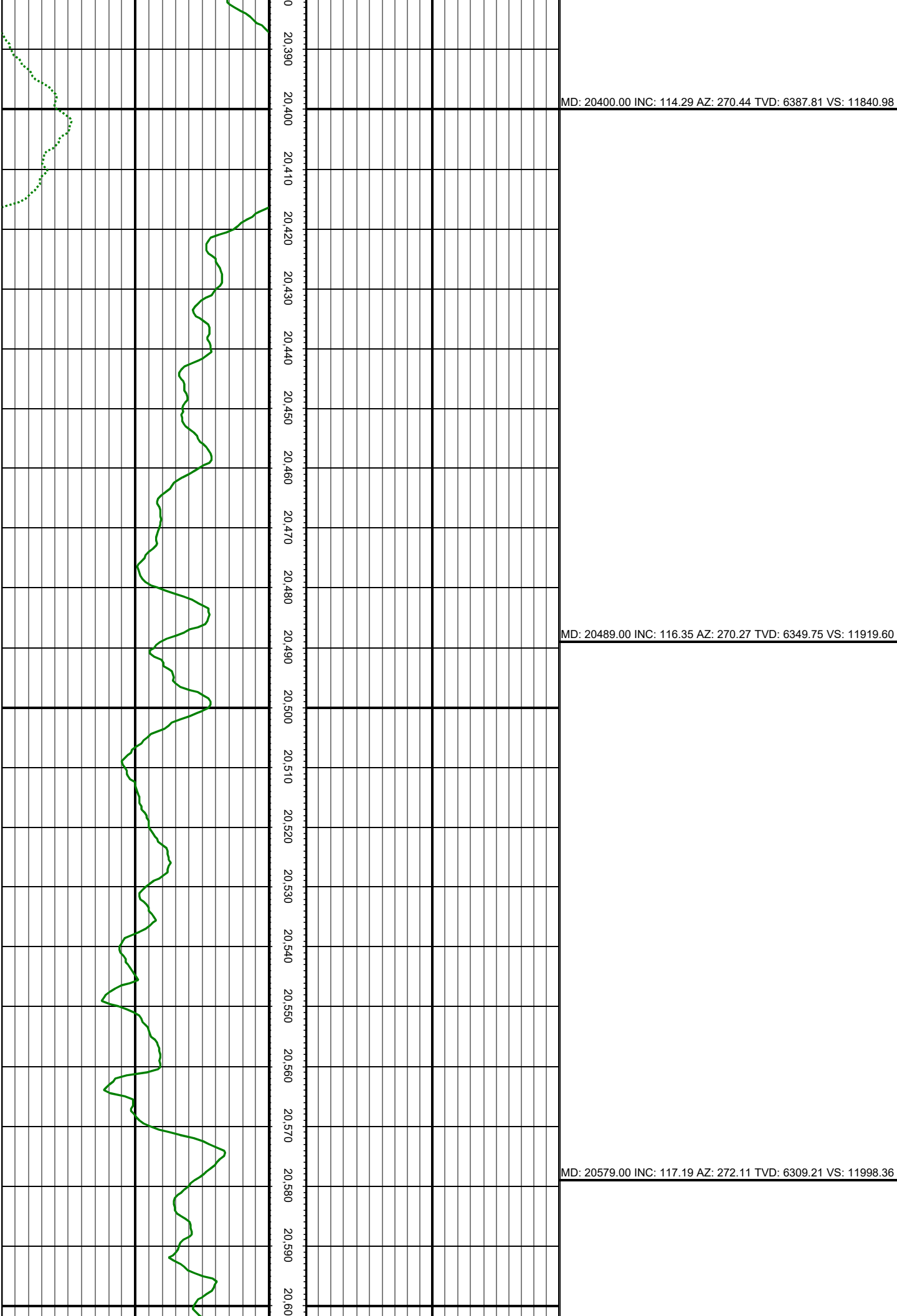
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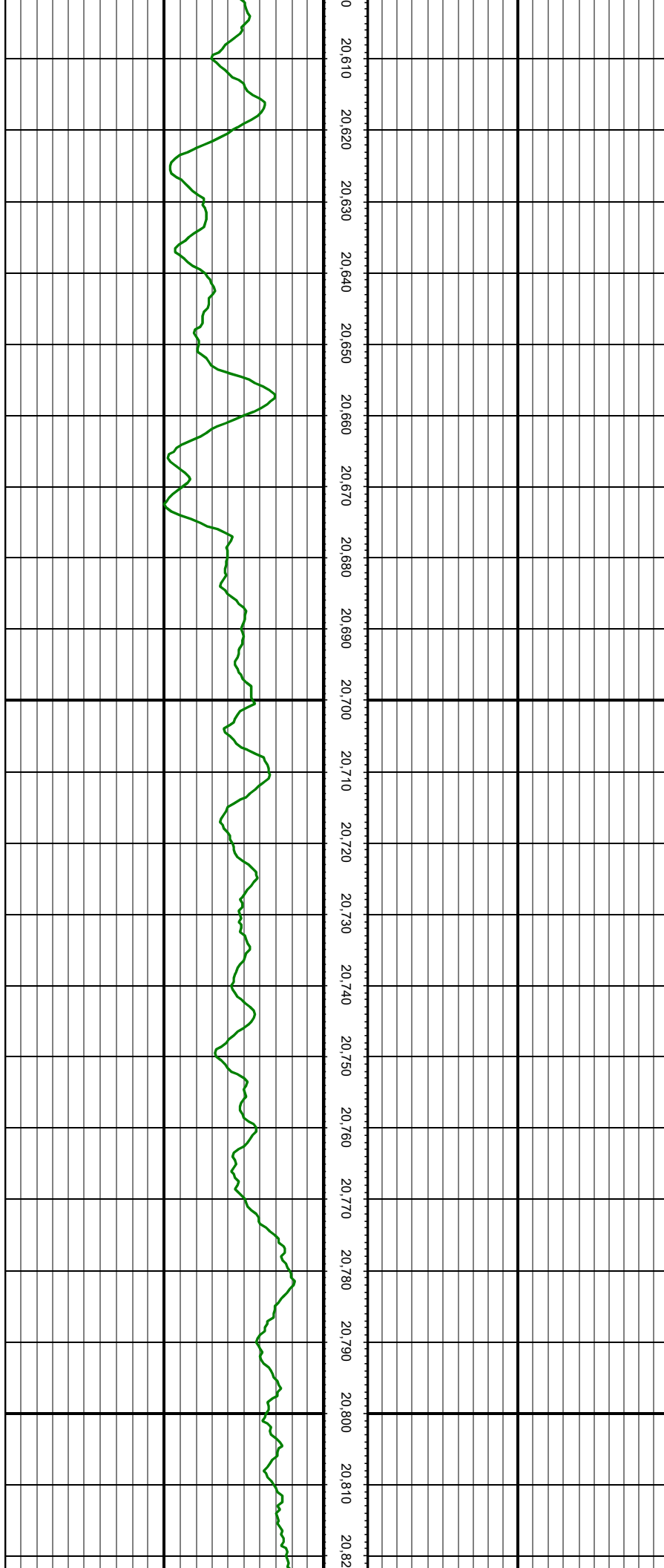
MD: 19975.00 INC: 106.81 AZ: 265.52 TVD: 6547.08 VS: 11463.44

MD: 20041.00 INC: 108.75 AZ: 264.20 TVD: 6526.93 VS: 11523.30

MD: 20131.00 INC: 112.75 AZ: 264.20 TVD: 6495.05 VS: 11603.15







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MD: 20669.00 INC: 117.93 AZ: 274.05 TVD: 6267.57 VS: 12077.04

MD: 20758.00 INC: 116.75 AZ: 272.81 TVD: 6226.69 VS: 12155.09

GR Memory()			ROP(FT/HR)			Surveys (MD/INC/AZ/TVD/VS)		
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125.00	25.00	250.00	300.00	150.00	600.00	TVD: 6061.96	VS: 12636.40	
0.00	25.00	125.00	600.00	150.00	900.00			
125.00	25.00	250.00						