

**Cathedral Energy Services**

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

RAINDANCE FC 23-289HNX**Scale 5":100' - MD****1/26/2022 5:26 PM****Oper. Company:** Great Western Petroleum, LLC**Well:** RAINDANCE FC 23-289HNX**Field:** DJ Basin**Rig:** Precision #462**Well ID:** 123-51584**Job Number:** 217127

Logging Star: 2065'

Logging End Depth: 20590'

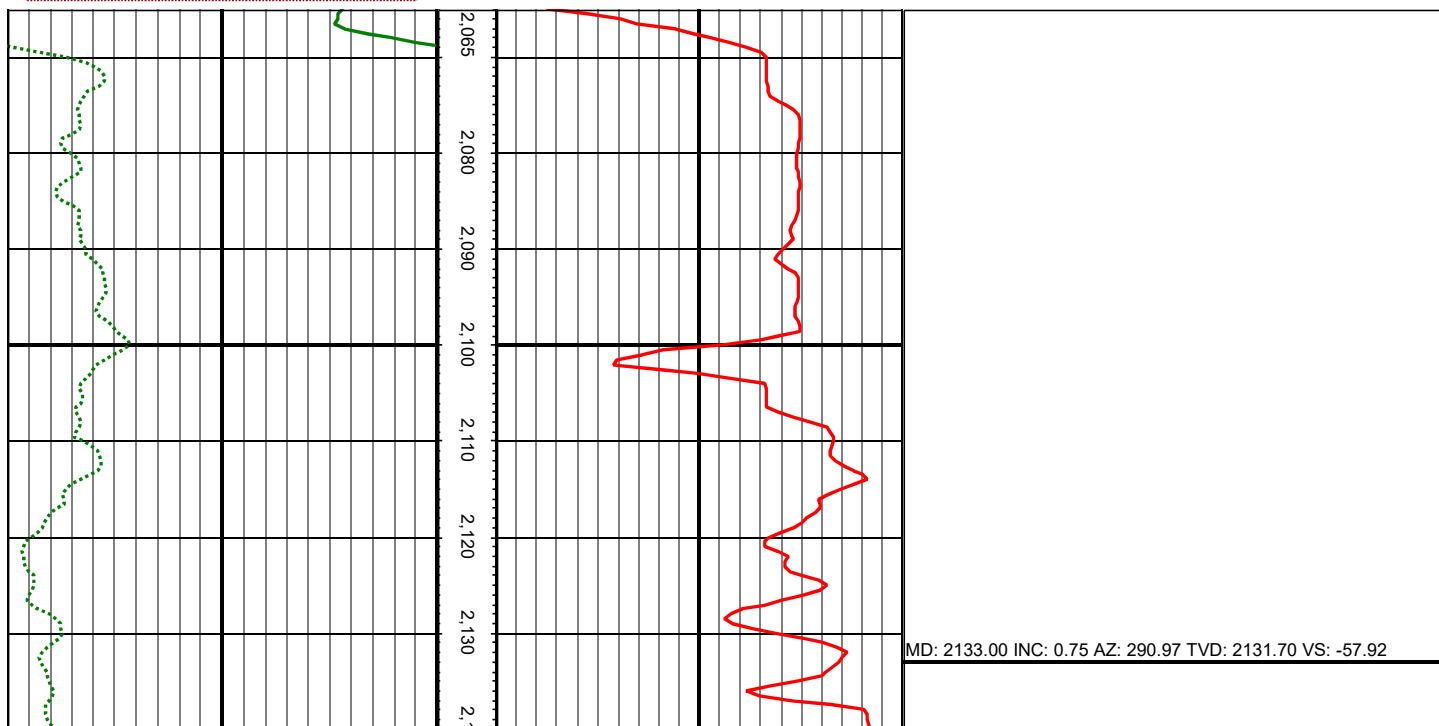
Notes: Gamma Ray Log
Section Plan: 280.26°
Magnetic North: 8.0°

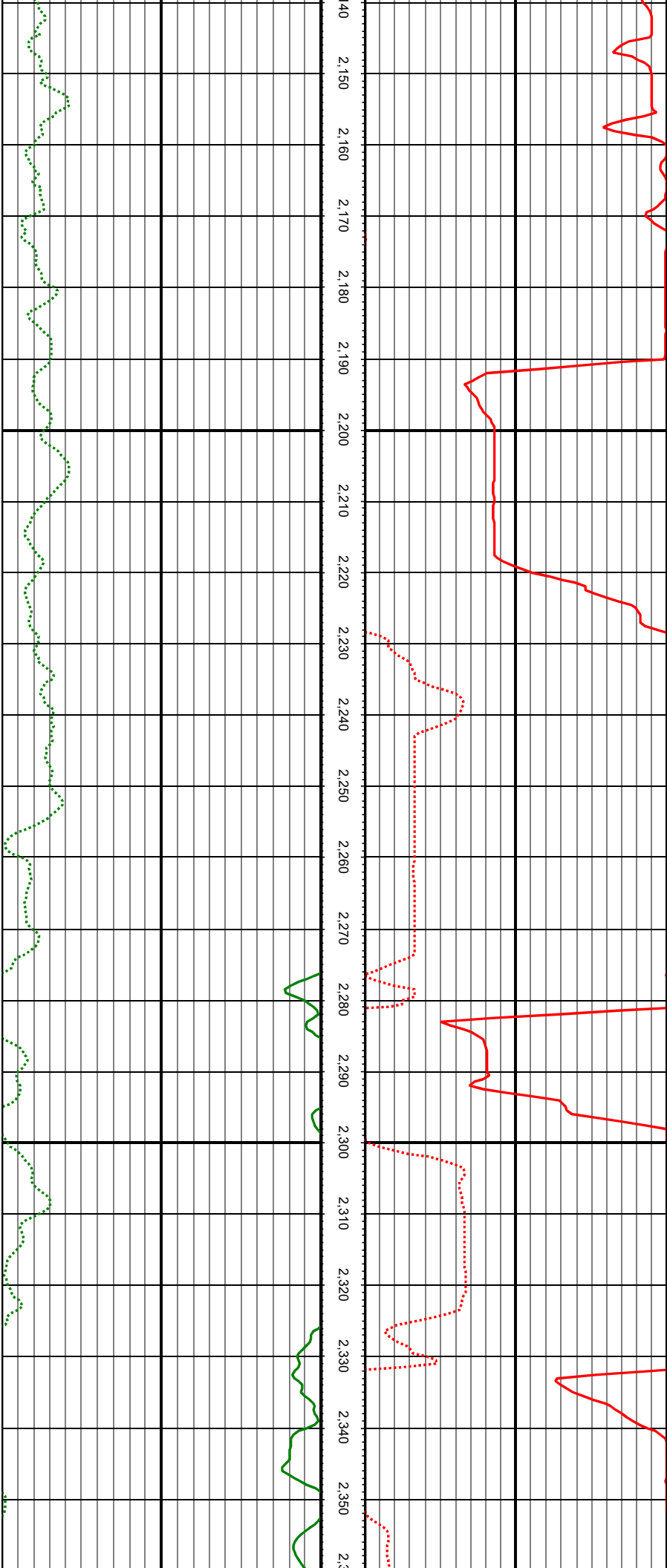
State: CO**County:** Weld**Country:** USA**Location:** SEC 30-T6N-R67W**Start Date:** 10/14/2021 00:00:00**End Date:** 10/25/2021 00:00:00**Latitude:** 40.463009**Longitude:** -104.9273**Elev GL:** 4788**Elev DF:** 4808**Elev KB:** 4808**Notes:** Log & Survey Depths Relative to Kelly Bushing (KB) Depth**Operator 1:** Sean Williams**Operator 2:** Eric Berbin**Notes:** Maximum Temperature: 252°F

Hole Data			Casing Data		
Size	From	To	Size	From	To
13.5	0.00	2063.00	9.625	0.00	2063.00
8.5	2063.00	20590.00	5.5	0.00	20590.00

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.

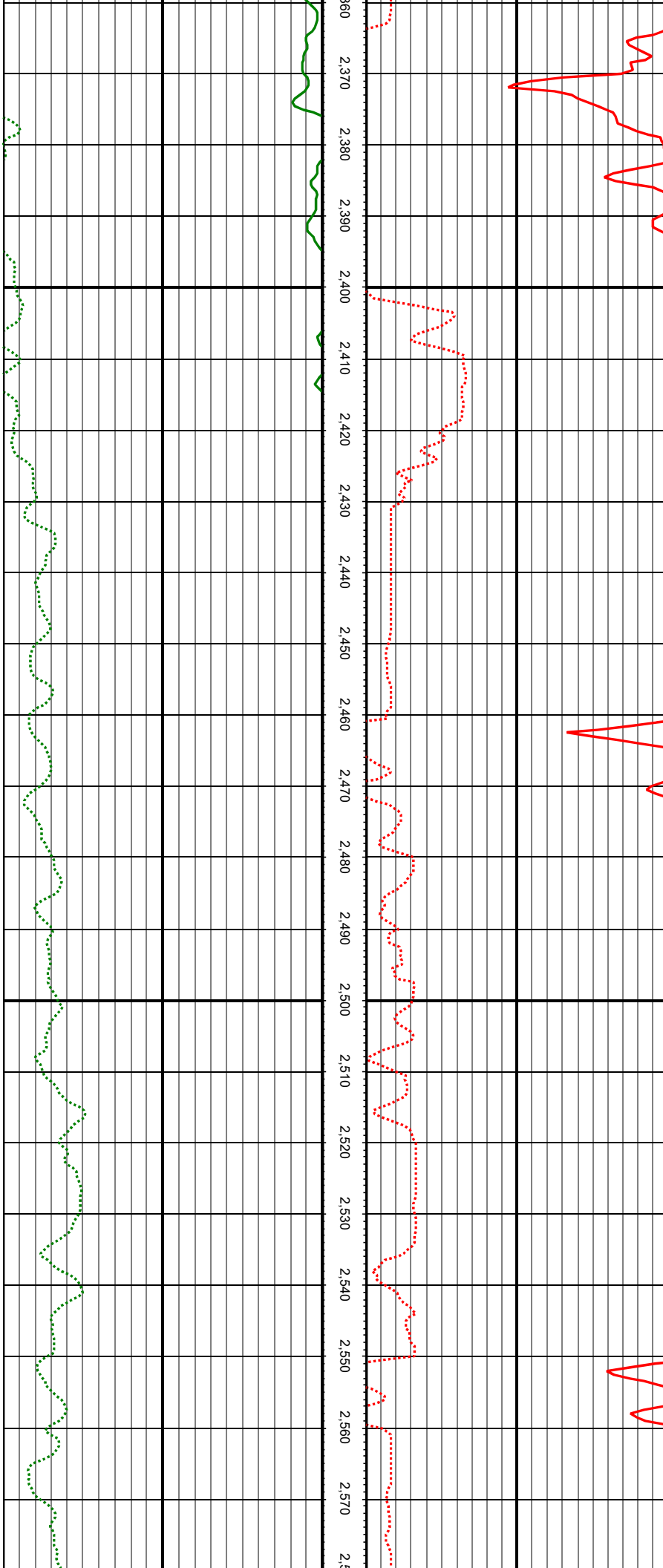
0.00	GR(API)	125.00	MD	0.00	ROP(FT/HR)	300.00	Surveys (MD/INC/AZ/TVD/VS)
125.00	2	250.00	FT	300.00	2	600.00	
0.00	GR Memory()	125.00		600.00	3	900.00	
125.00	2	250.00					





MD: 2223.00 INC: 3.04 AZ: 22.26 TVD: 2221.65 VS: -57.84

MD: 2312.00 INC: 4.22 AZ: 21.71 TVD: 2310.47 VS: -58.98



MD: 2402.00 INC: 4.09 AZ: 20.48 TVD: 2400.23 VS: -60.21

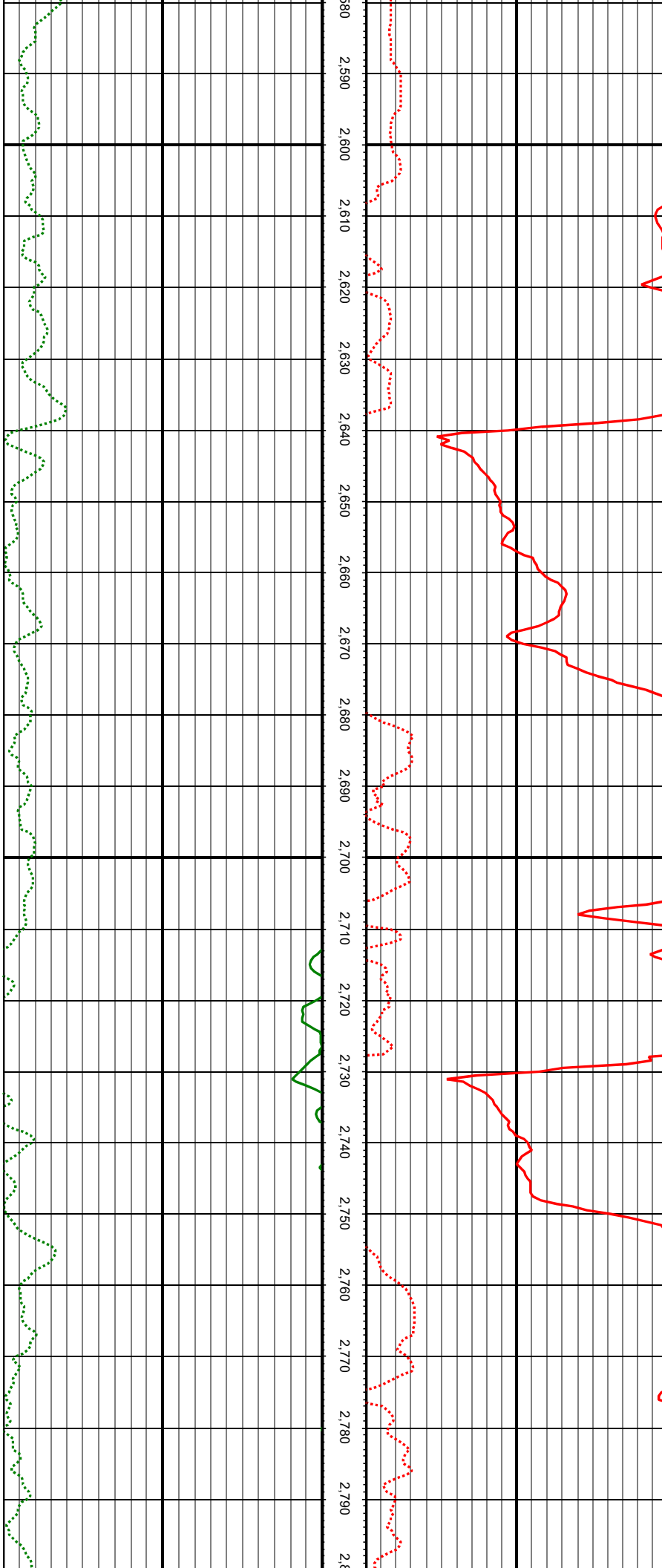
MD: 2492.00 INC: 3.82 AZ: 14.94 TVD: 2490.02 VS: -61.02

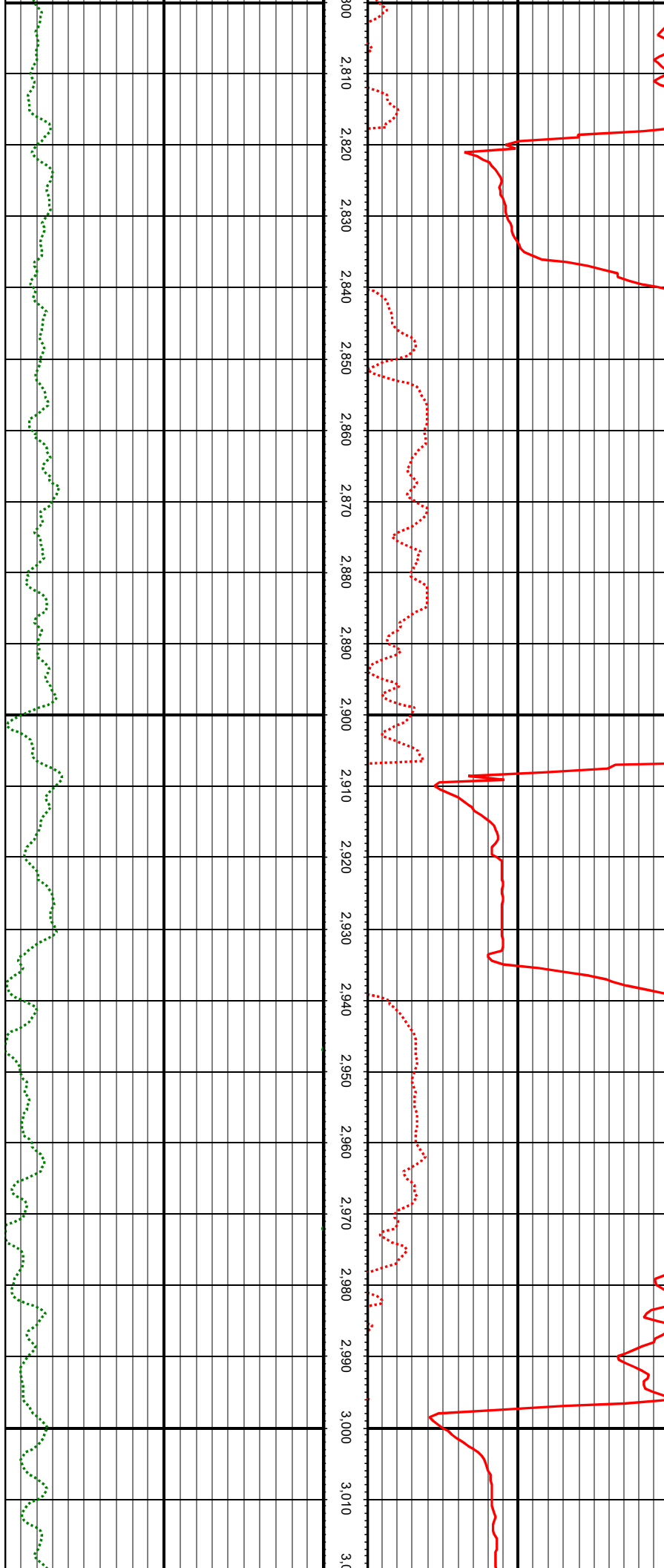
MD: 2581.00 INC: 3.65 AZ: 10.00 TVD: 2578.83 VS: -61.30

MD: 2561.00 INC: 5.65 AZ: 10.90 TVD: 2576.65 VS: -61.50

MD: 2671.00 INC: 7.21 AZ: 17.76 TVD: 2668.41 VS: -62.06

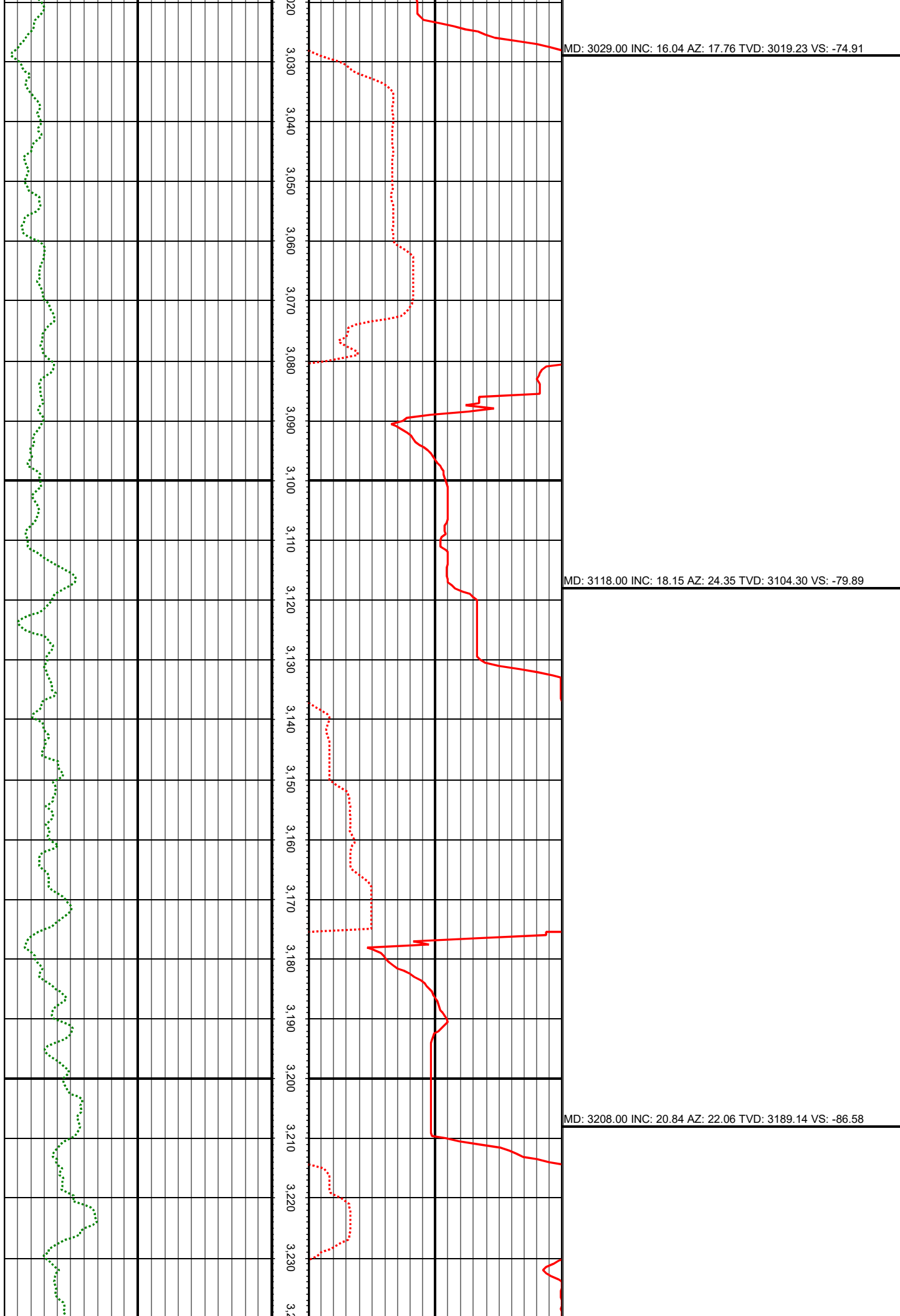
MD: 2760.00 INC: 9.23 AZ: 21.45 TVD: 2756.50 VS: -64.18





MD: 2850.00 INC: 10.46 AZ: 20.04 TVD: 2845.17 VS: -66.97

MD: 2939.00 INC: 13.54 AZ: 23.91 TVD: 2932.21 VS: -70.80





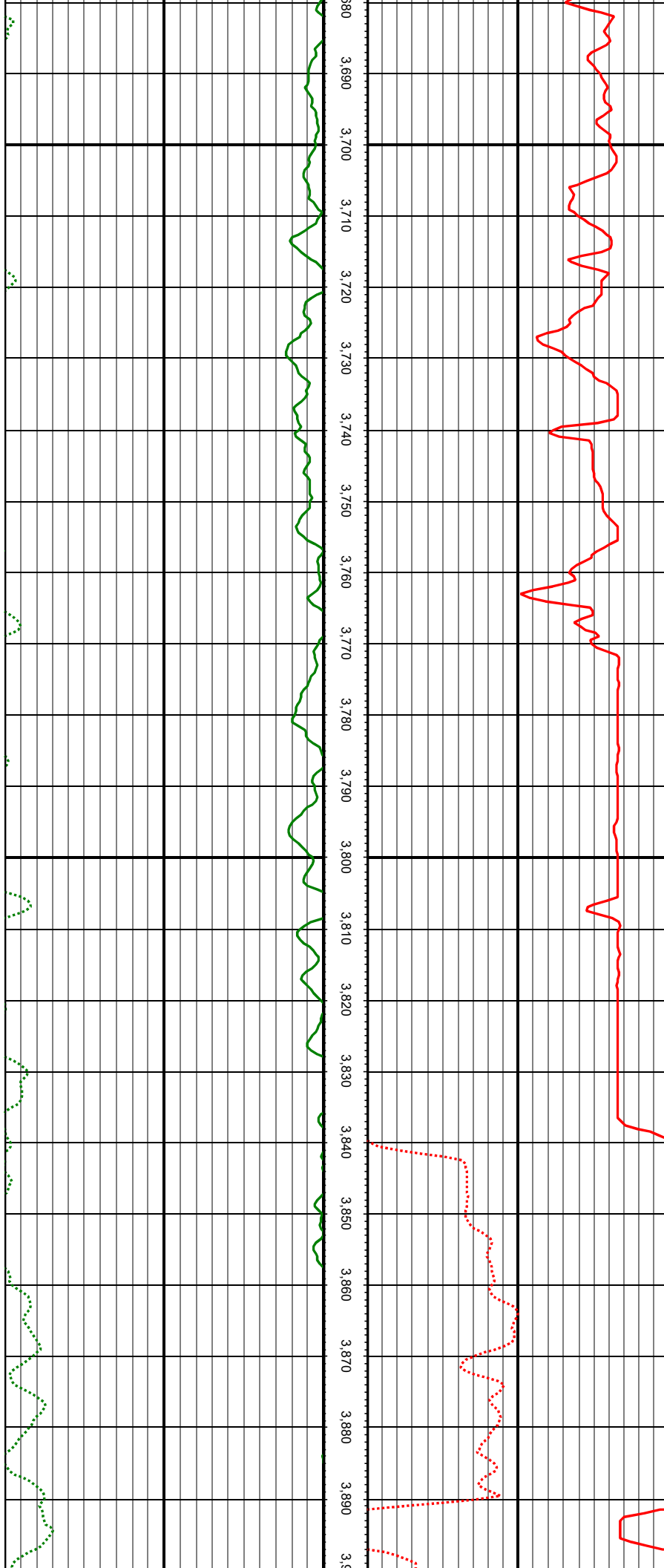
MD: 3297.00 INC: 24.84 AZ: 21.36 TVD: 3271.14 VS: -93.42

MD: 3387.00 INC: 27.60 AZ: 21.98 TVD: 3351.87 VS: -101.29

MD: 3476.00 INC: 31.25 AZ: 21.98 TVD: 3429.38 VS: -110.17

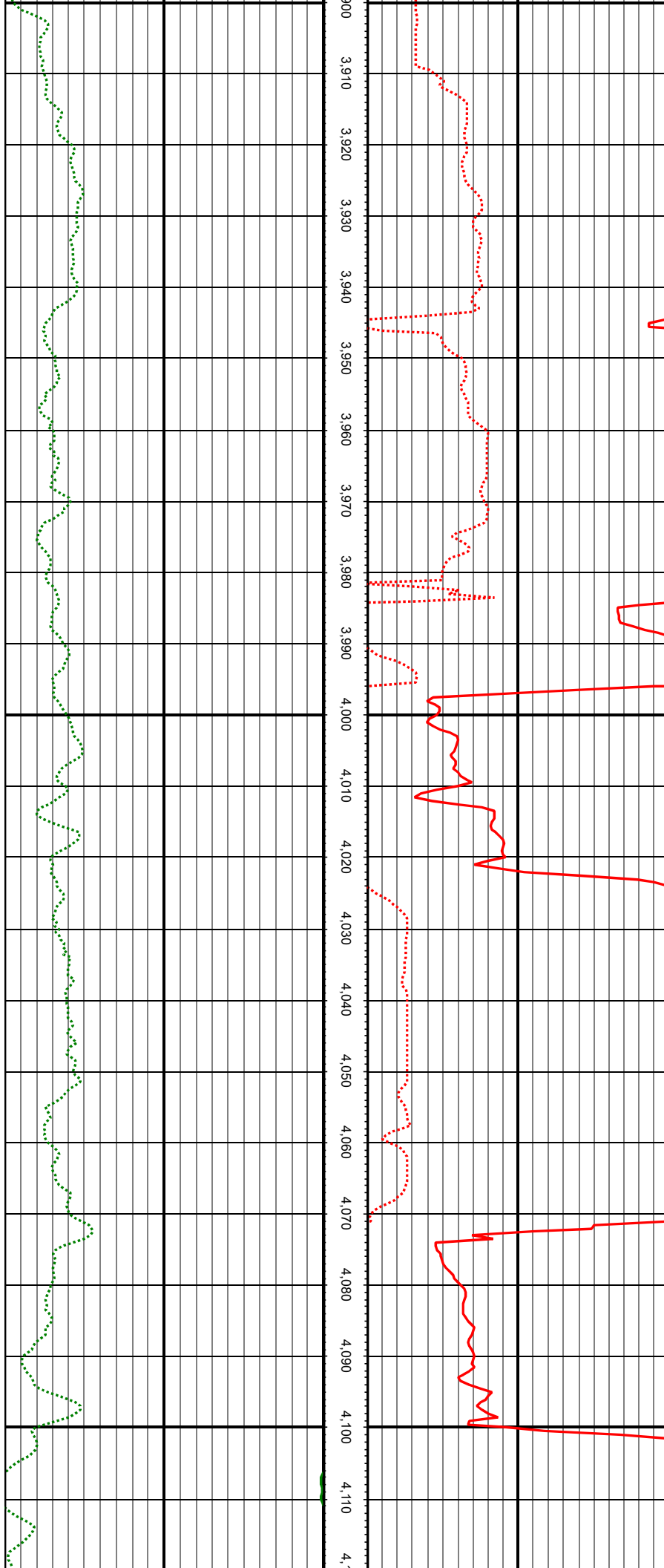
MD: 3565.00 INC: 32.04 AZ: 22.41 TVD: 3505.15 VS: -119.83

MD: 3655.00 INC: 32.18 AZ: 21.80 TVD: 3581.38 VS: -129.65



MD: 3745.00 INC: 32.18 AZ: 21.45 TVD: 3657.55 VS: -139.10

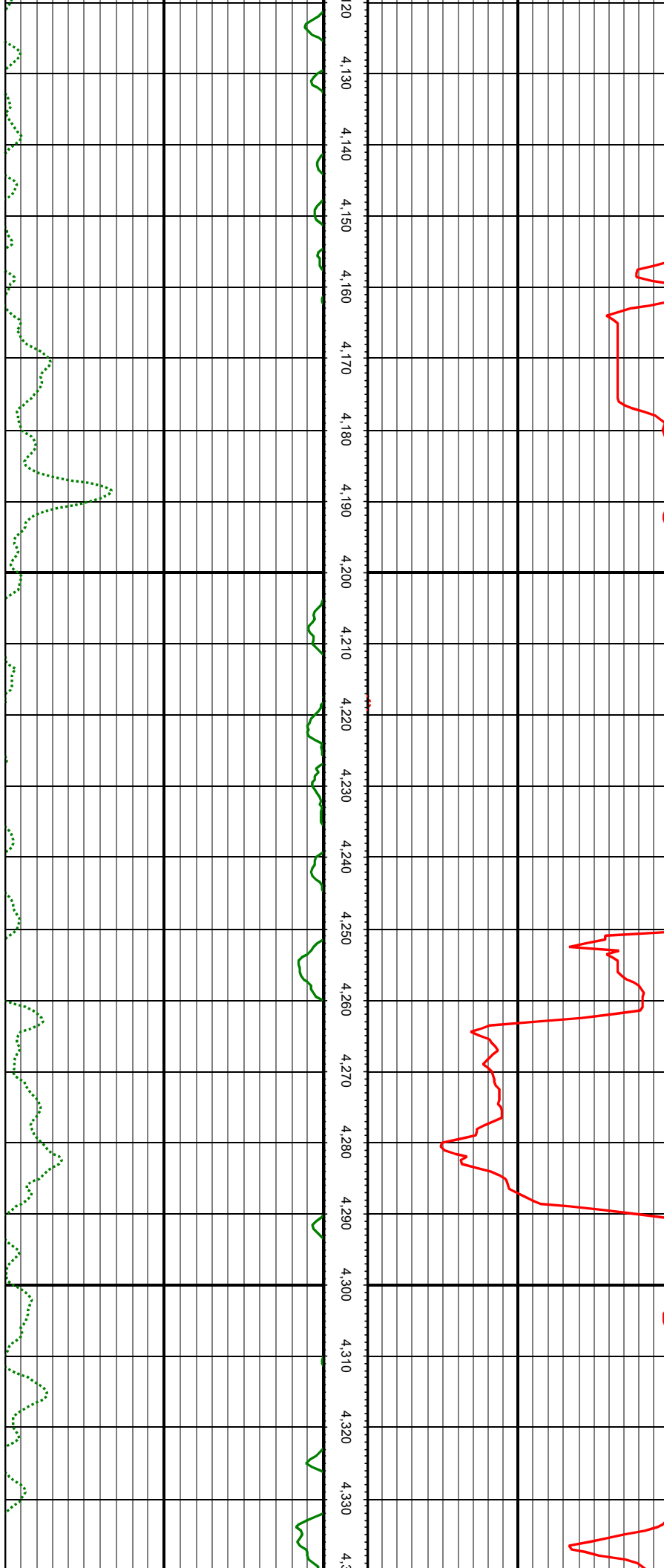
MD: 3835.00 INC: 32.09 AZ: 20.83 TVD: 3733.76 VS: -148.13



MD: 3924.00 INC: 30.95 AZ: 19.78 TVD: 3809.63 VS: -156.25

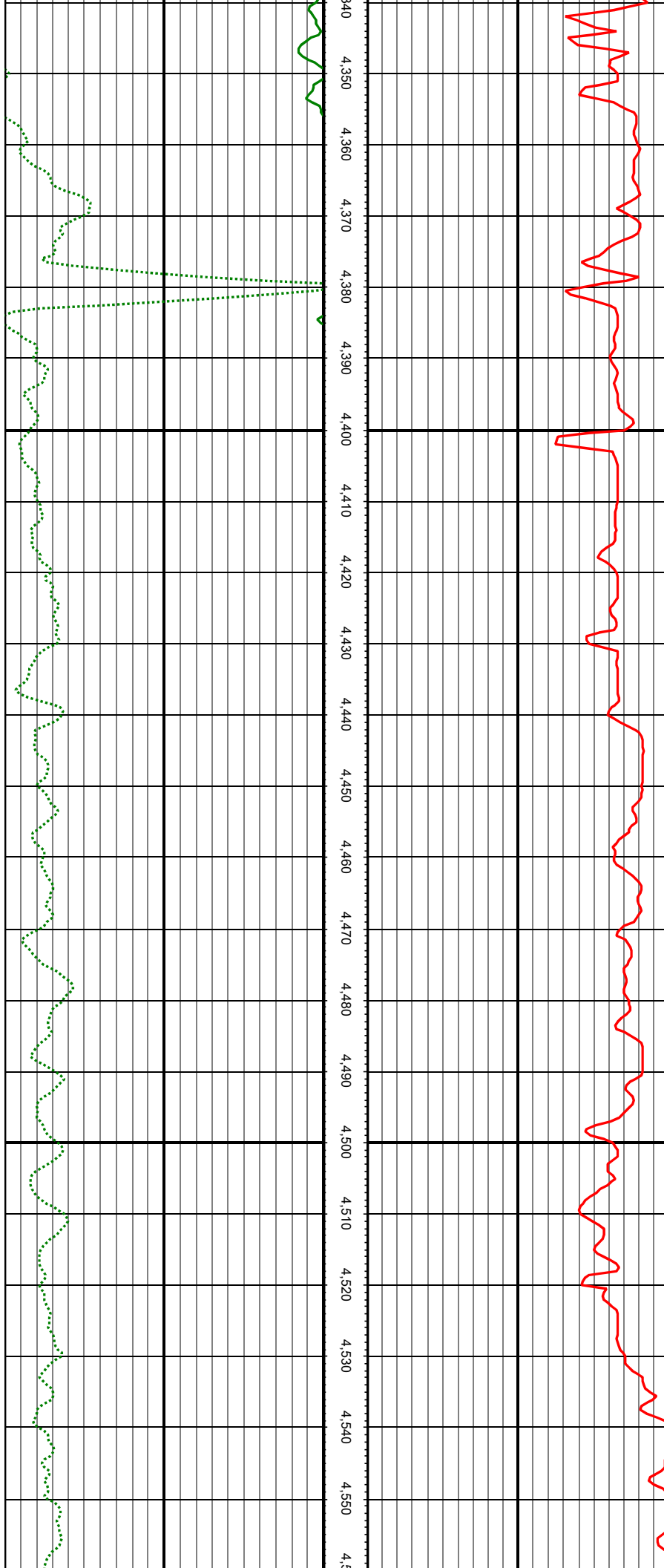
MD: 4014.00 INC: 29.67 AZ: 24.44 TVD: 3887.34 VS: -165.54

MD: 4104.00 INC: 31.78 AZ: 25.58 TVD: 3964.70 VS: -177.26



MD: 4194.00 INC: 31.03 AZ: 24.61 TVD: 4041.52 VS: -189.27

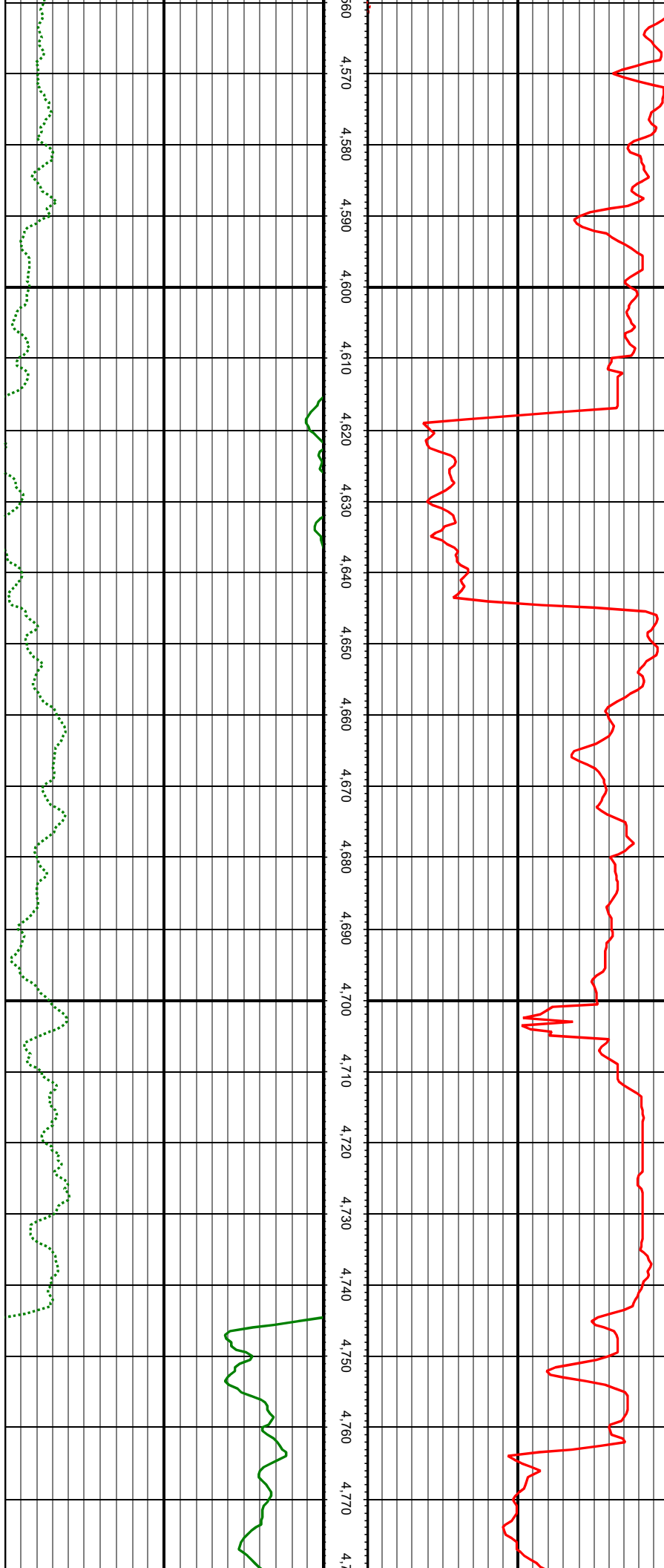
MD: 4283.00 INC: 33.10 AZ: 25.93 TVD: 4116.94 VS: -201.52



MD: 4373.00 INC: 32.35 AZ: 25.31 TVD: 4192.65 VS: -214.41

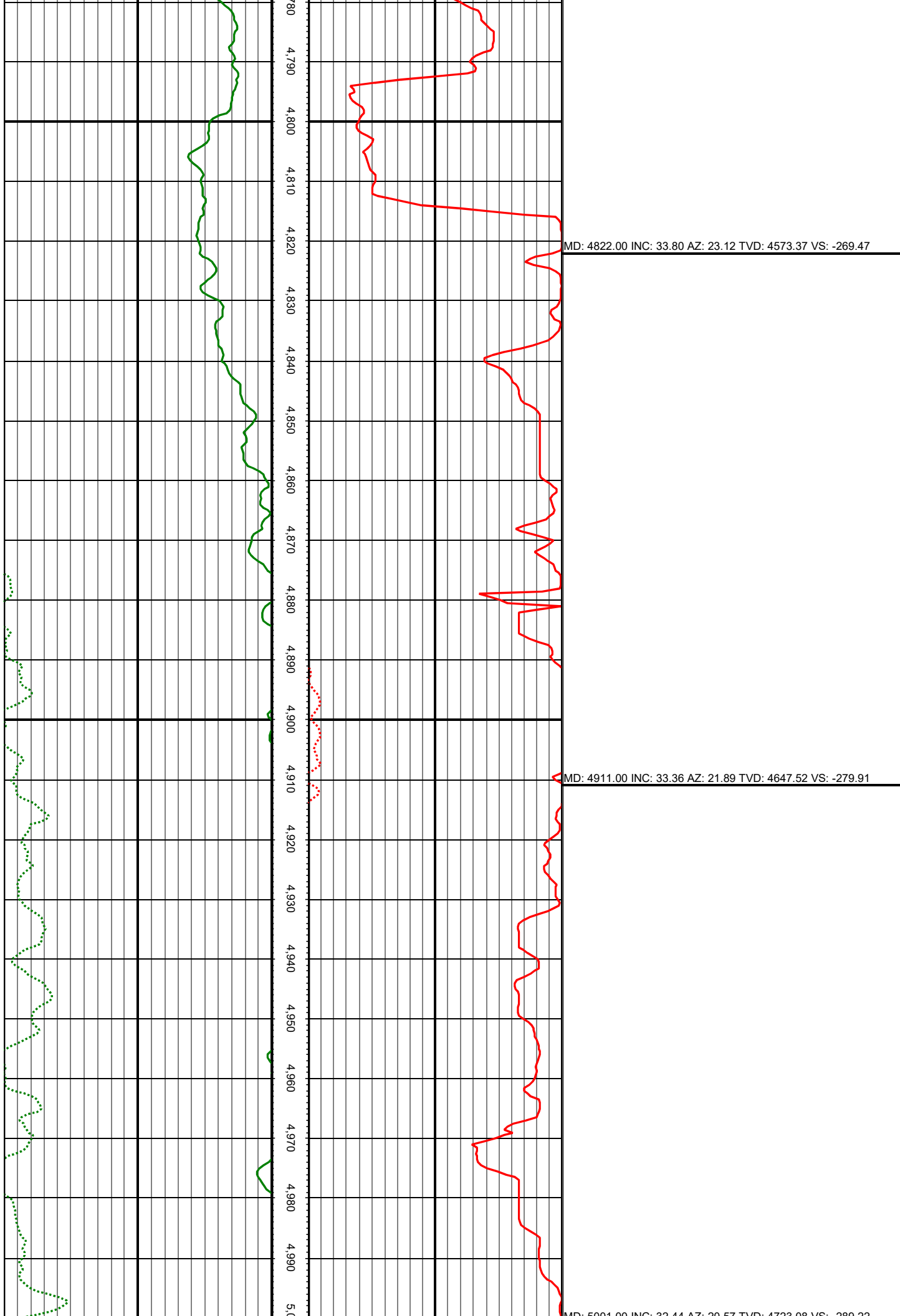
MD: 4463.00 INC: 32.00 AZ: 24.70 TVD: 4268.83 VS: -226.61

MD: 4552.00 INC: 30.42 AZ: 23.21 TVD: 4344.95 VS: -237.54



MD: 4642.00 INC: 32.57 AZ: 23.56 TVD: 4421.69 VS: -248.22

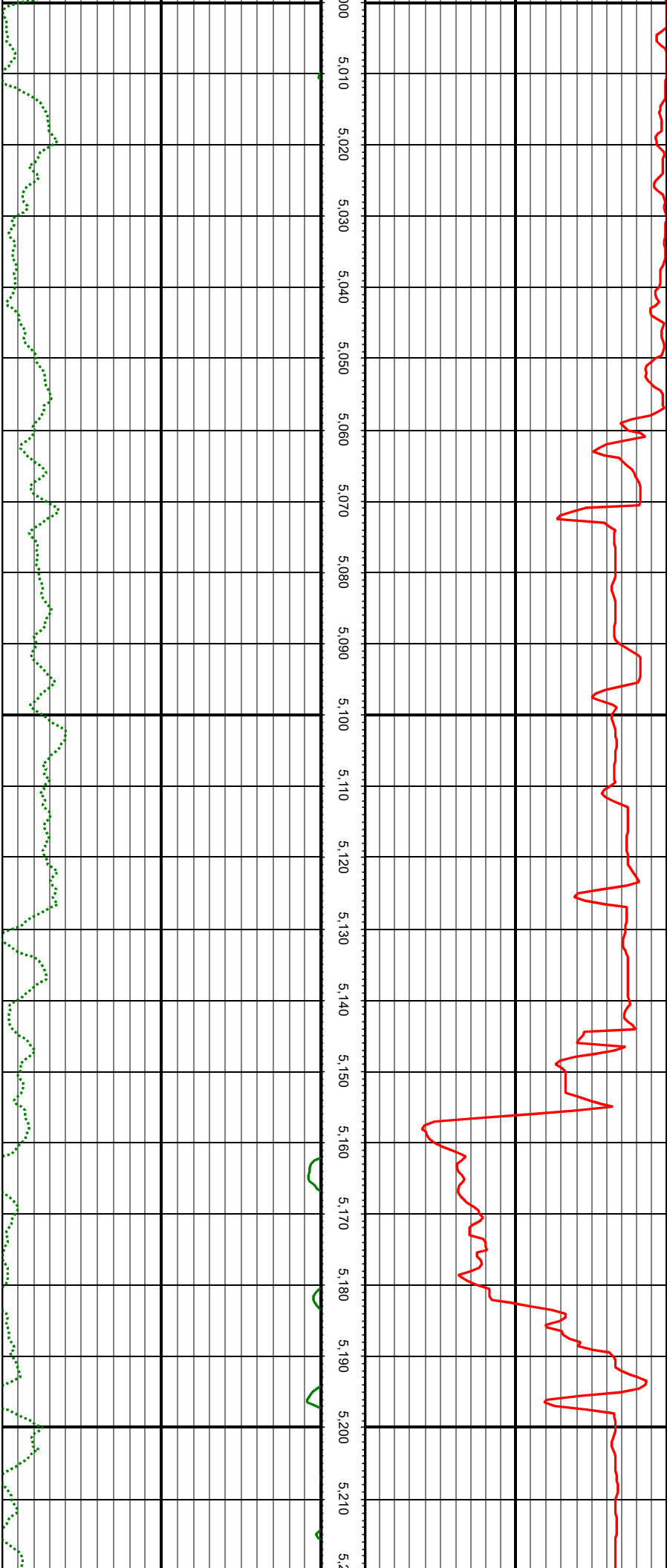
MD: 4732.00 INC: 31.96 AZ: 22.50 TVD: 4497.79 VS: -258.85

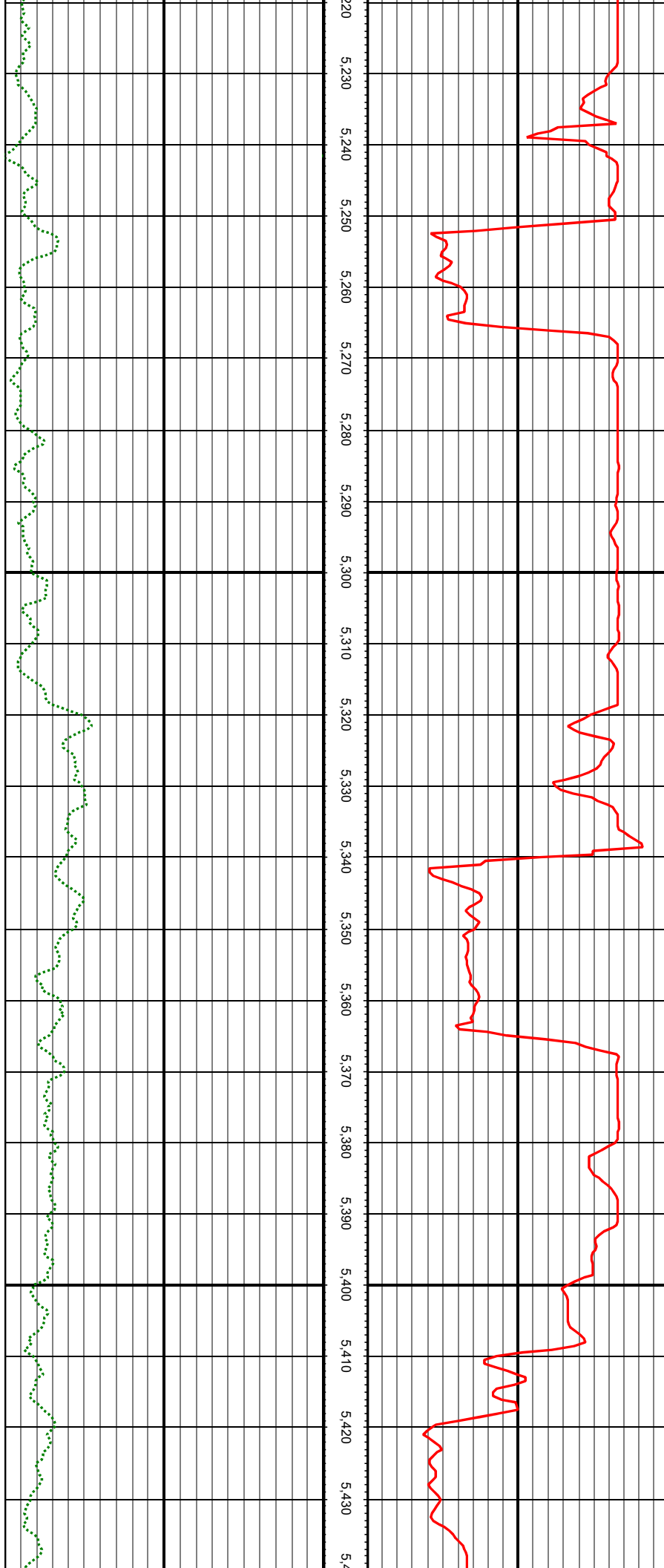


MD: 5001.00 INC: 32.44 AZ: 20.37 TVD: 4723.06 VS: -269.22

MD: 5090.00 INC: 30.99 AZ: 19.07 TVD: 4798.79 VS: -297.00

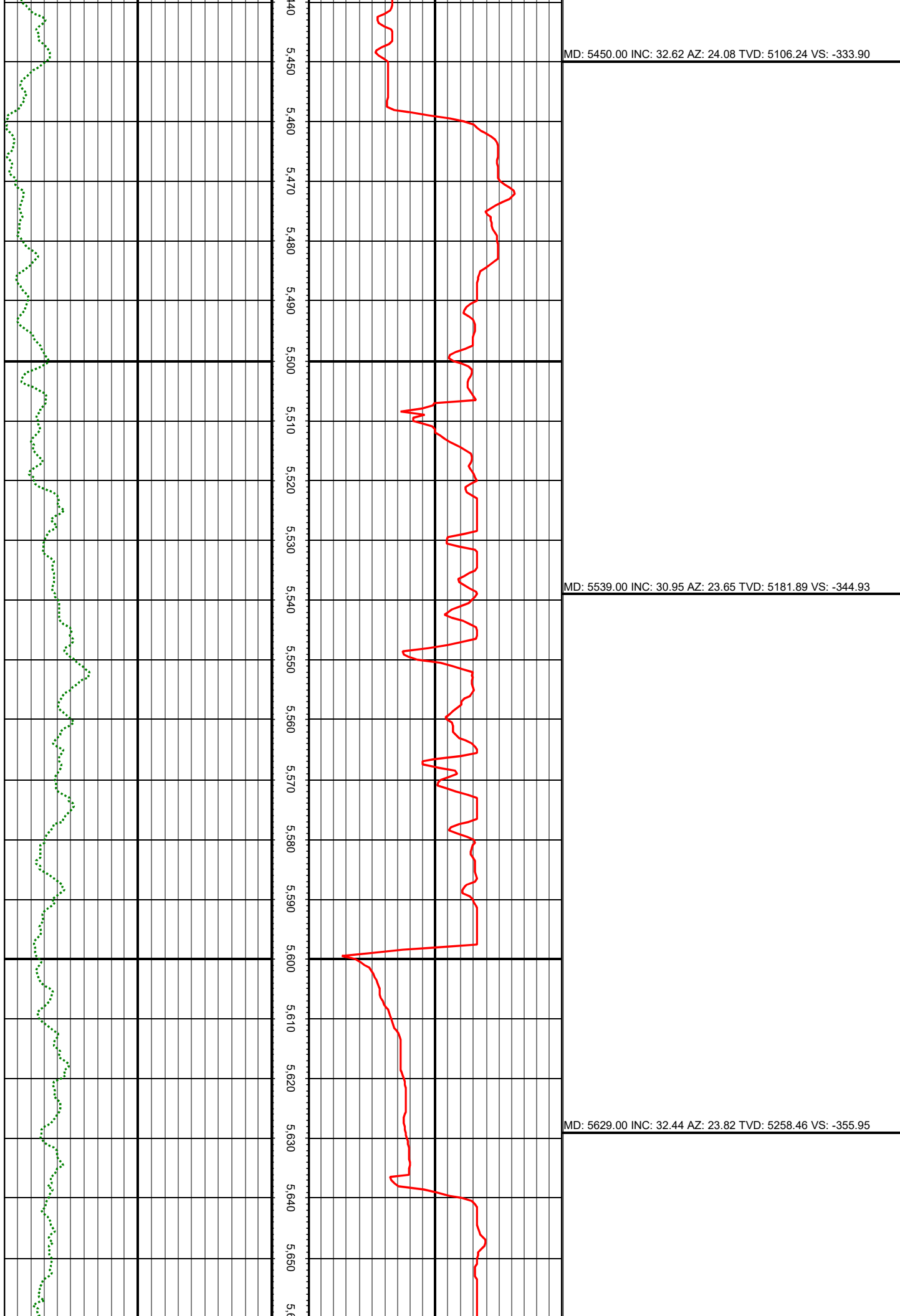
MD: 5180.00 INC: 30.95 AZ: 21.80 TVD: 4875.96 VS: -305.18

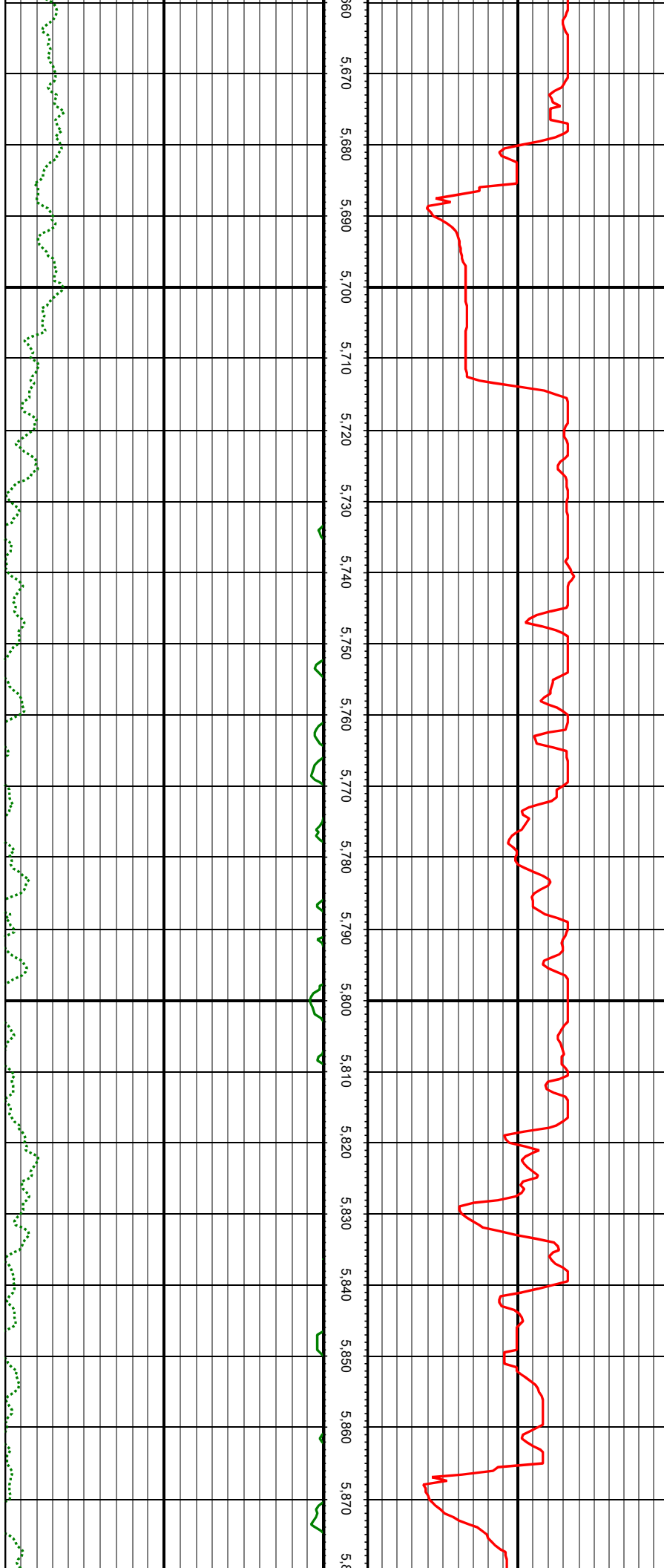




MD: 5270.00 INC: 31.17 AZ: 21.45 TVD: 4953.06 VS: -314.33

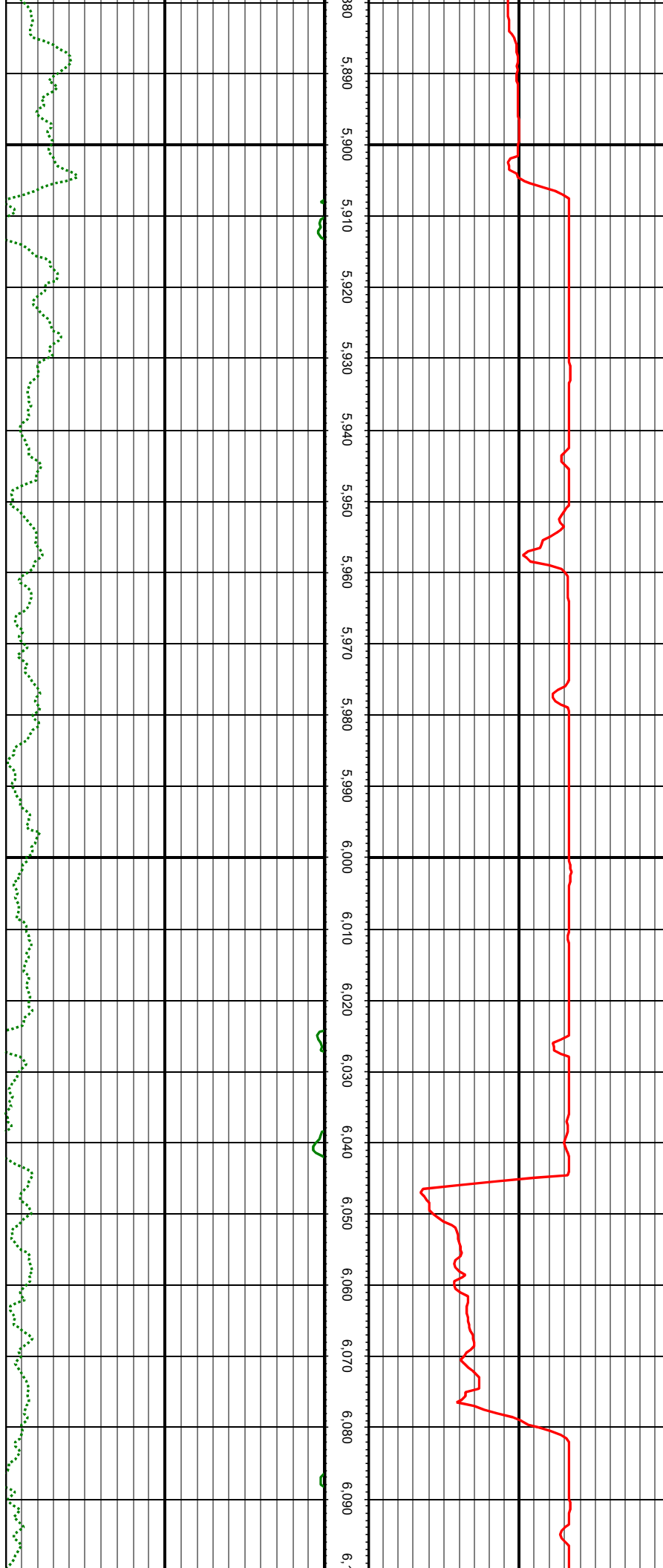
MD: 5360.00 INC: 31.47 AZ: 21.62 TVD: 5029.95 VS: -323.48





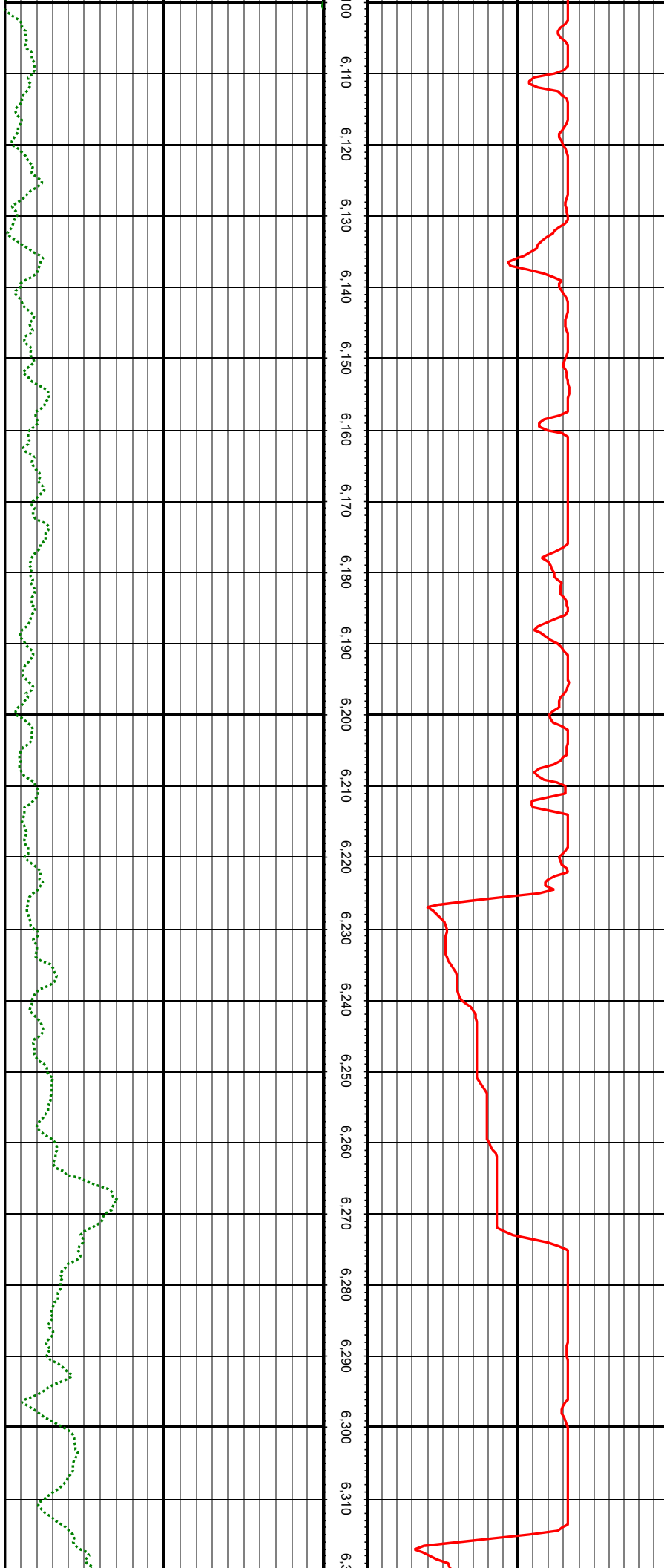
MD: 5718.00 INC: 33.41 AZ: 22.85 TVD: 5333.17 VS: -366.89

MD: 5808.00 INC: 31.39 AZ: 22.06 TVD: 5409.15 VS: -377.08



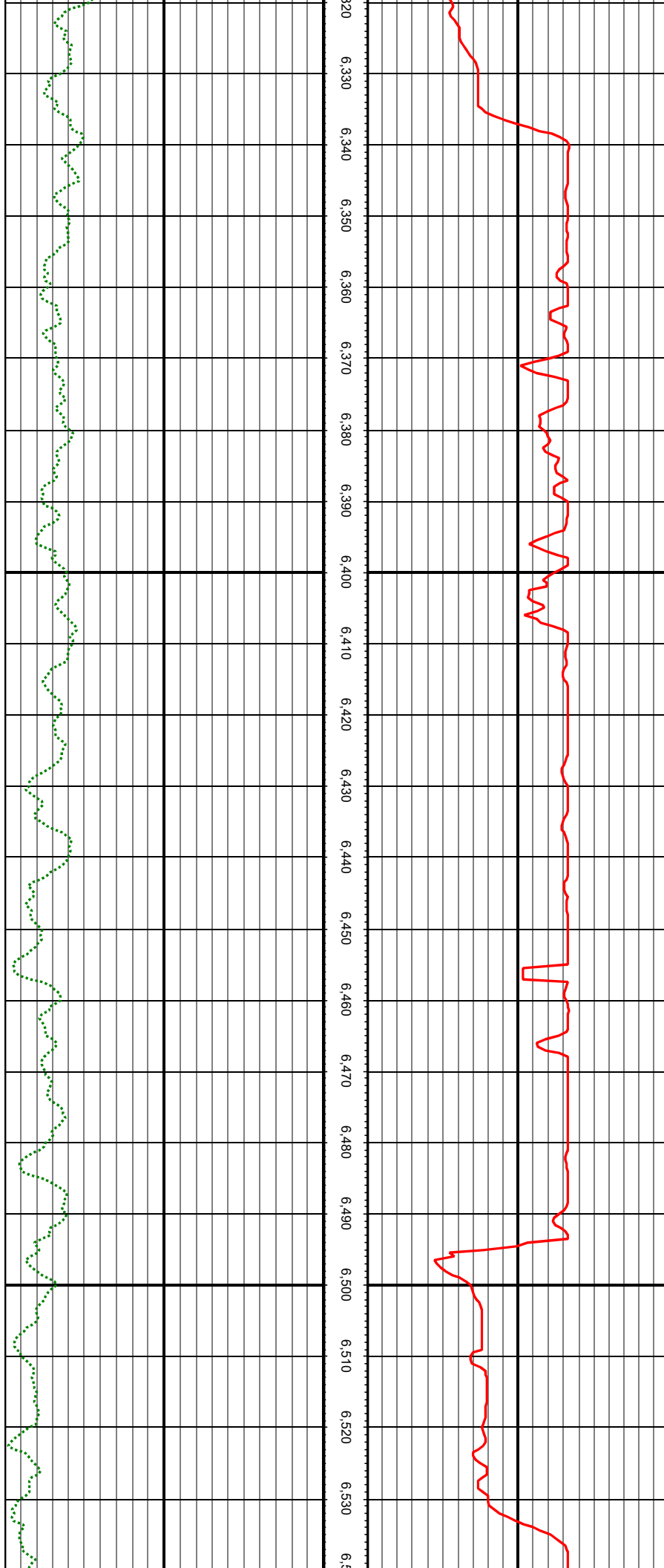
MD: 5987.00 INC: 31.91 AZ: 21.54 TVD: 5559.88 VS: -396.18

MD: 6077.00 INC: 32.18 AZ: 26.02 TVD: 5636.17 VS: -407.34



MD: 6167.00 INC: 29.89 AZ: 25.14 TVD: 5713.29 VS: -419.61

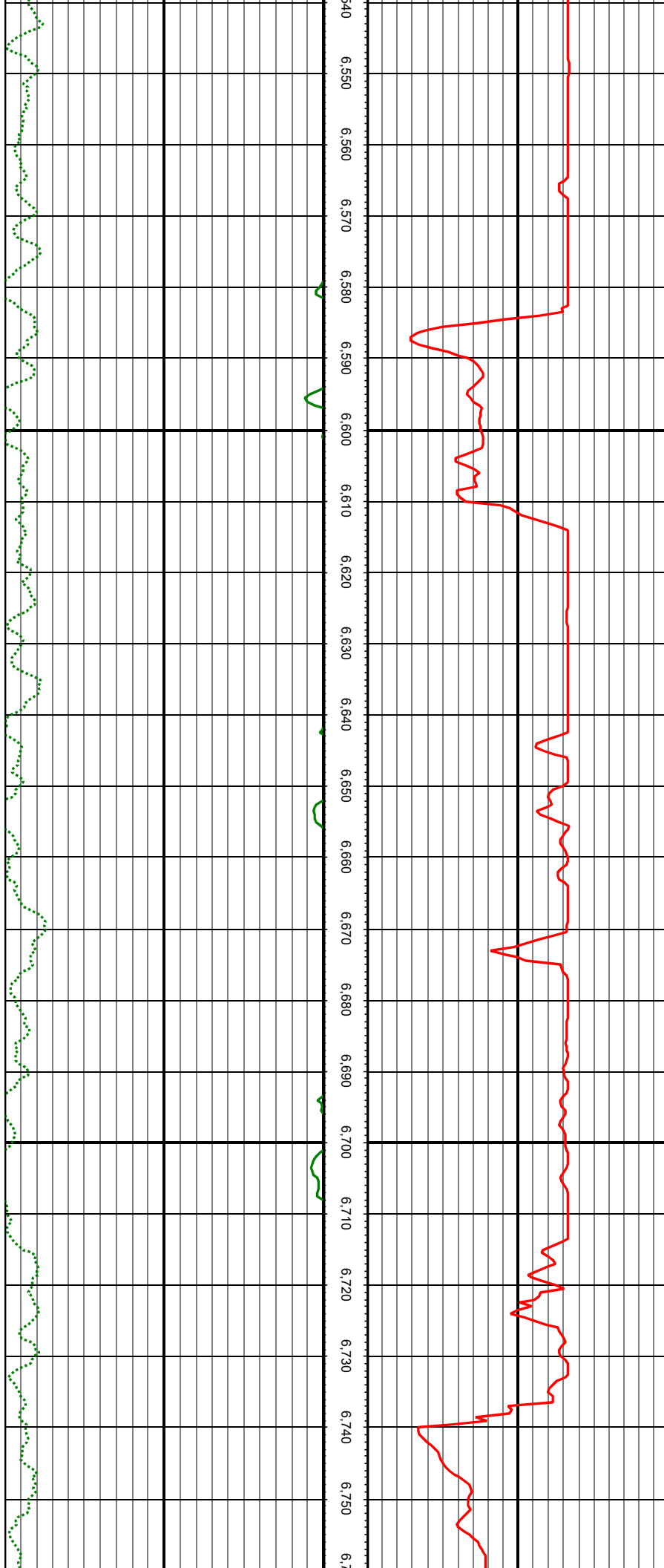
MD: 6257.00 INC: 32.04 AZ: 22.94 TVD: 5790.46 VS: -430.61



MD: 6346.00 INC: 32.79 AZ: 22.50 TVD: 5865.59 VS: -440.90

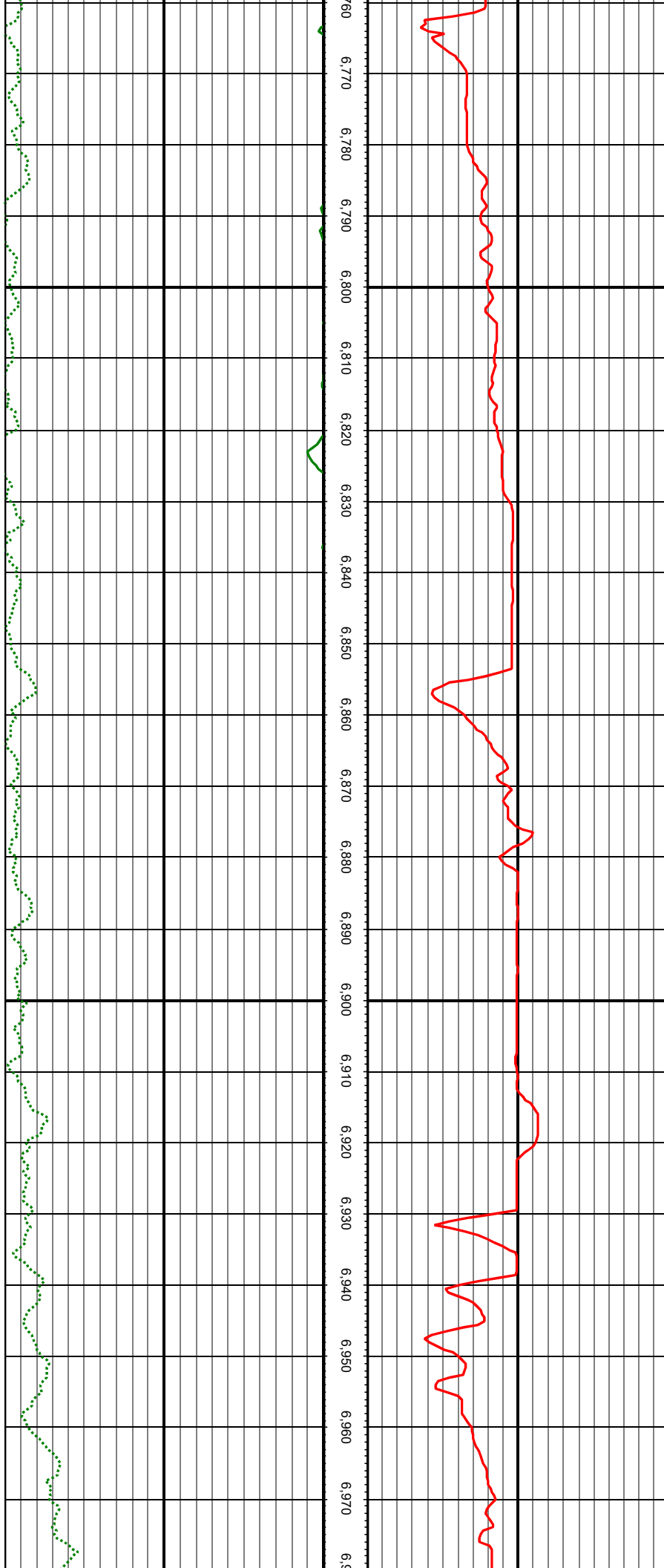
MD: 6436.00 INC: 30.73 AZ: 21.71 TVD: 5942.11 VS: -450.63

MD: 6526.00 INC: 32.66 AZ: 21.98 TVD: 6018.68 VS: -460.13



MD: 6615.00 INC: 33.06 AZ: 23.21 TVD: 6093.44 VS: -470.45

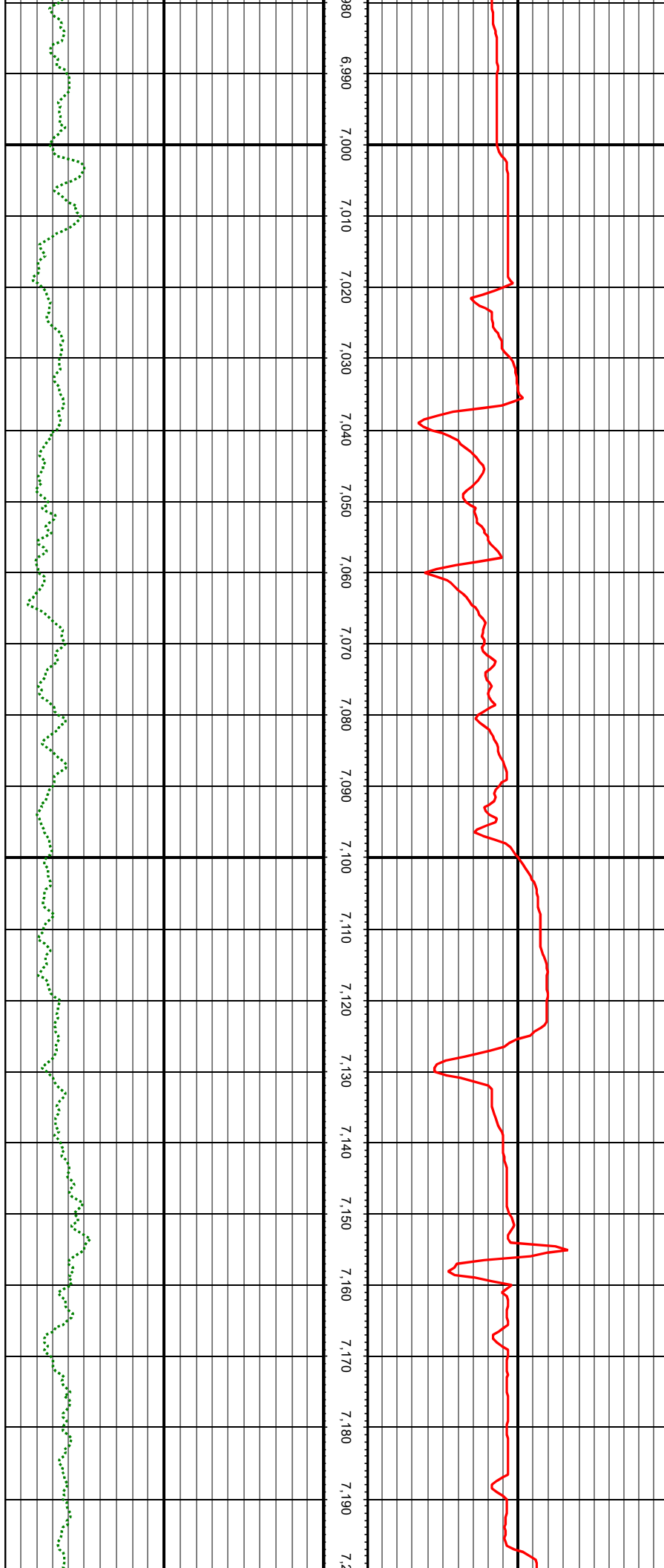
MD: 6705.00 INC: 30.07 AZ: 22.15 TVD: 6170.12 VS: -480.60



MD: 6794.00 INC: 28.92 AZ: 5.45 TVD: 6247.72 VS: -483.39

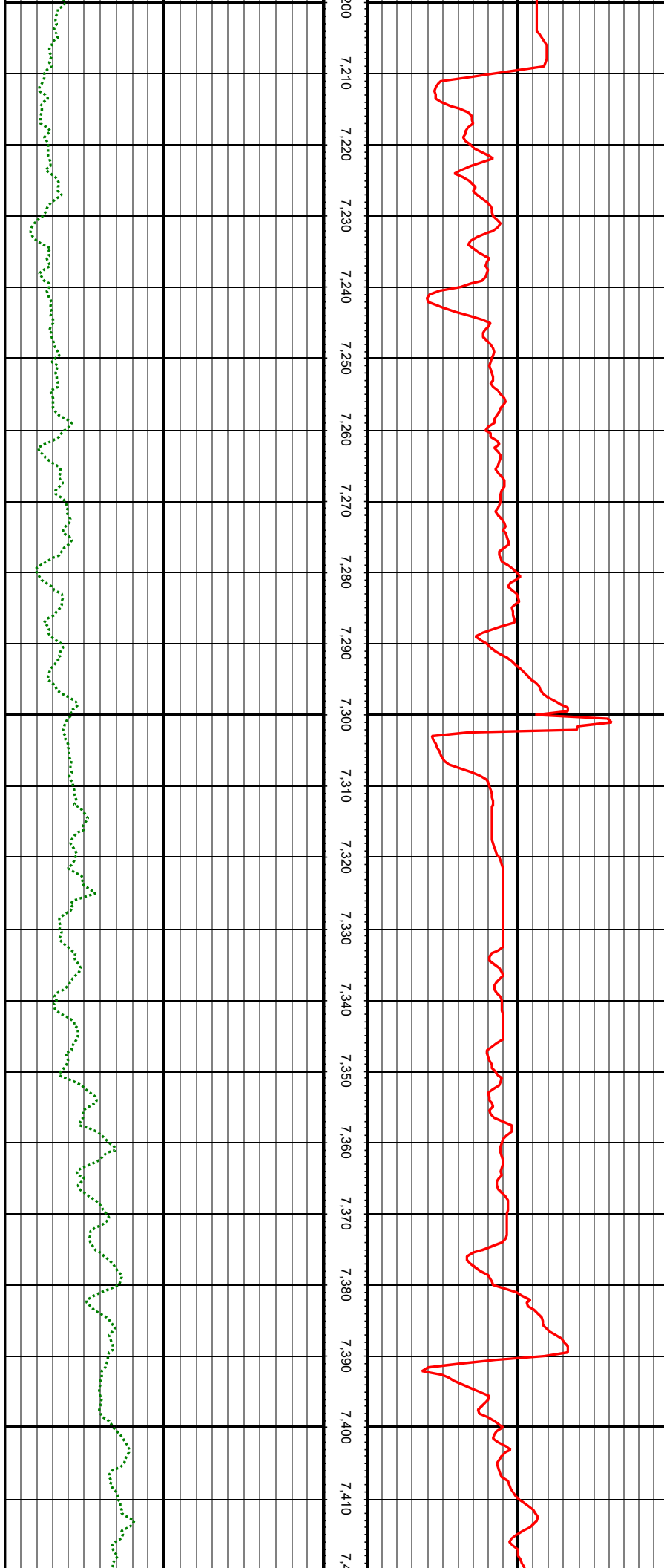
MD: 6884.00 INC: 31.56 AZ: 352.09 TVD: 6325.55 VS: -474.21

MD: 6974.00 INC: 28.57 AZ: 341.11 TVD: 6403.49 VS: -456.37



MD: 7063.00 INC: 32.18 AZ: 328.45 TVD: 6480.34 VS: -430.17

MD: 7153.00 INC: 35.91 AZ: 320.63 TVD: 6554.94 VS: -394.05



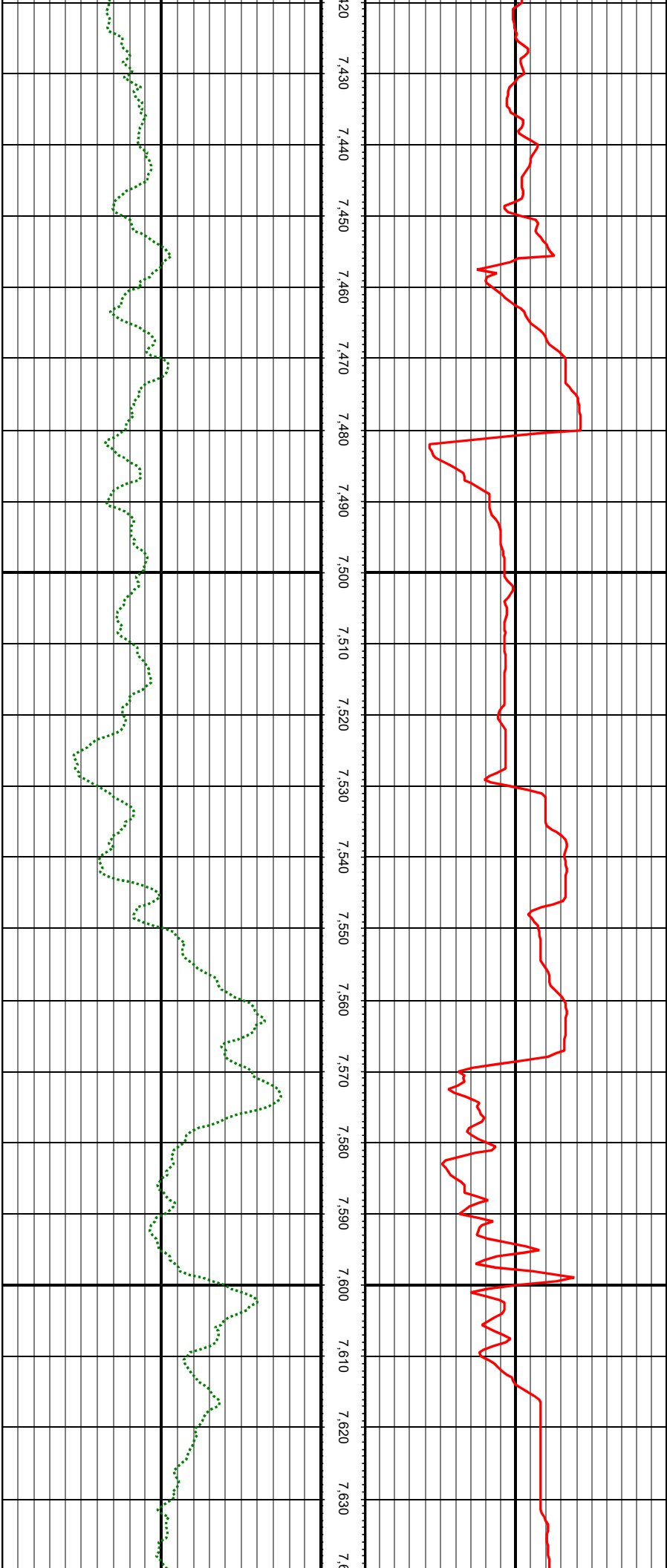
MD: 7243.00 INC: 43.91 AZ: 315.97 TVD: 6623.93 VS: -348.52

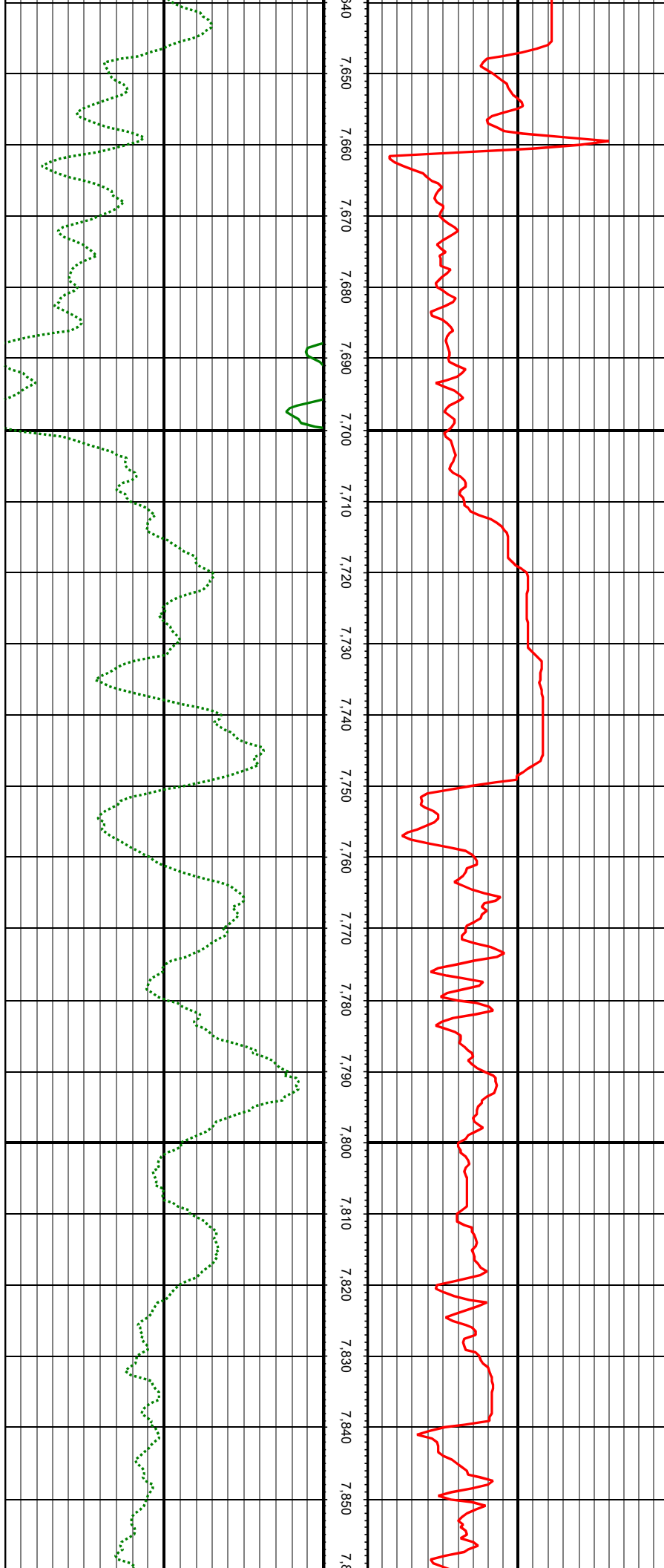
MD: 7332.00 INC: 48.53 AZ: 308.32 TVD: 6685.54 VS: -293.96

MD: 7422.00 INC: 53.23 AZ: 299.09 TVD: 6742.39 VS: -229.97

MD: 7512.00 INC: 59.69 AZ: 291.36 TVD: 6792.14 VS: -157.58

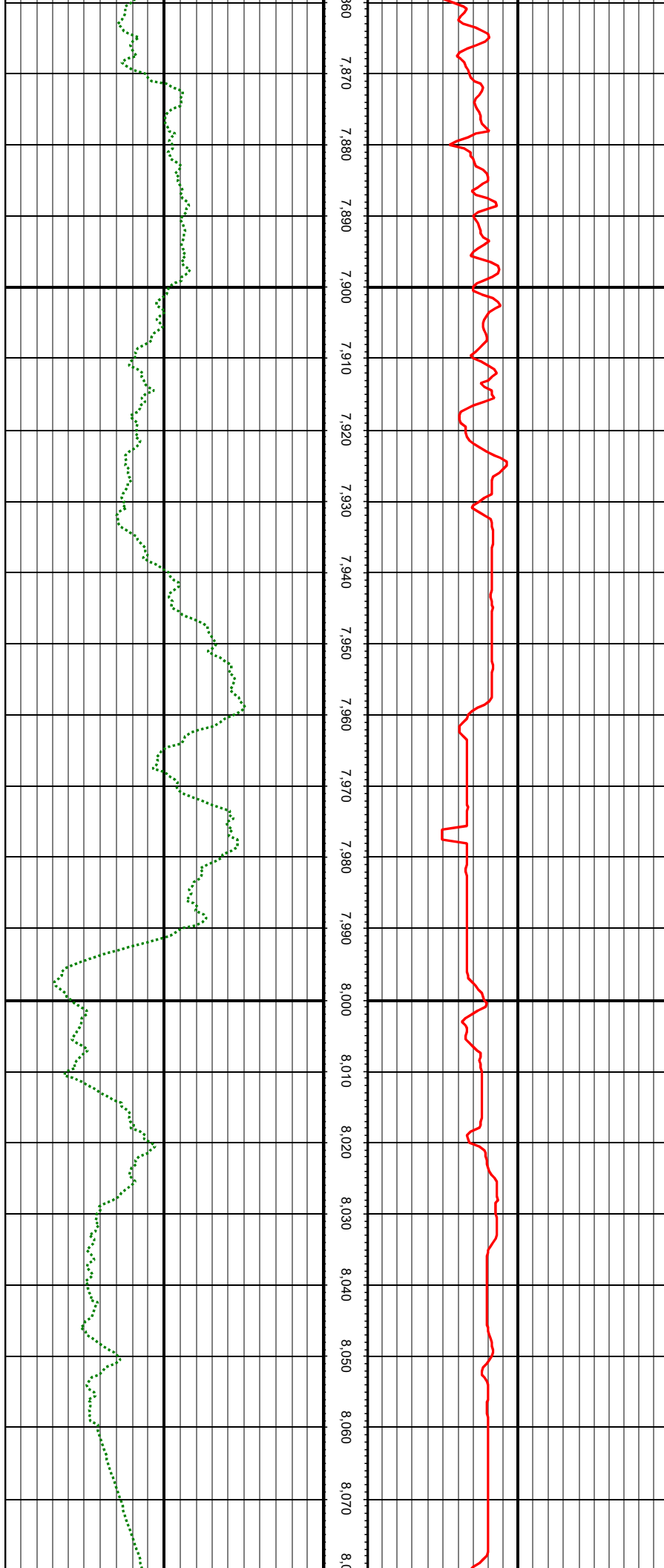
MD: 7601.00 INC: 63.21 AZ: 286.35 TVD: 6834.69 VS: -80.32





MD: 7691.00 INC: 67.30 AZ: 284.33 TVD: 6872.36 VS: 1.08

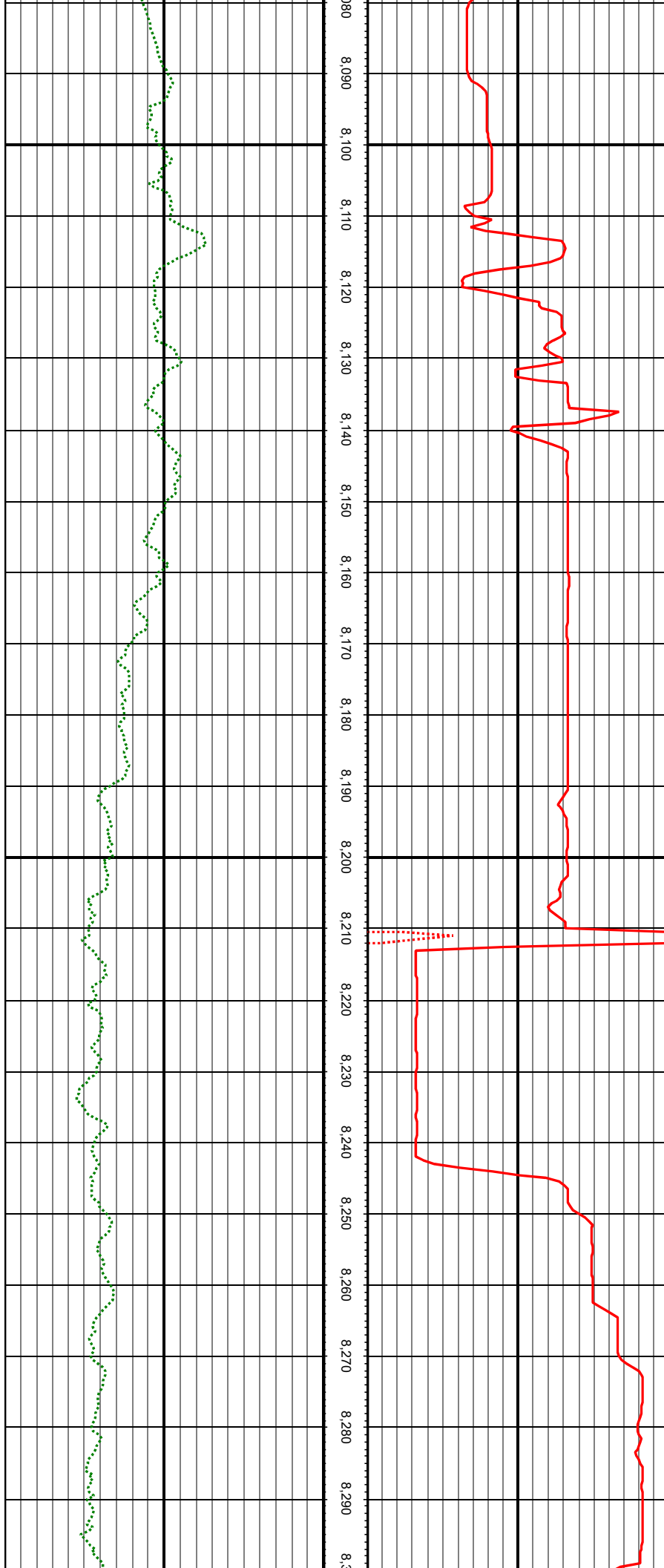
MD: 7781.00 INC: 72.48 AZ: 282.31 TVD: 6903.29 VS: 85.44



MD: 7871.00 INC: 83.65 AZ: 276.59 TVD: 6921.89 VS: 173.30

MD: 7960.00 INC: 88.88 AZ: 273.08 TVD: 6927.69 VS: 261.67

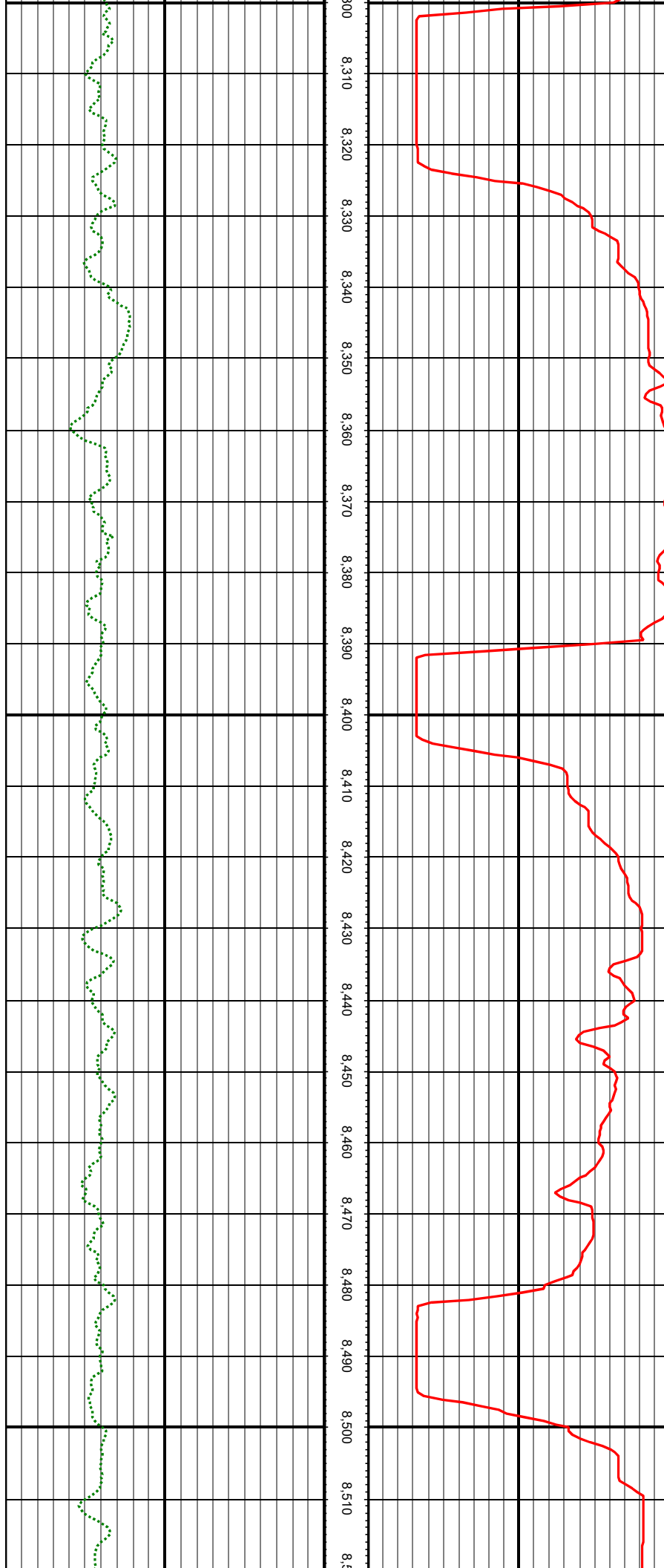
MD: 8050.00 INC: 88.04 AZ: 273.08 TVD: 6930.11 VS: 350.93



MD: 8094.00 INC: 87.39 AZ: 272.64 TVD: 6931.86 VS: 394.53

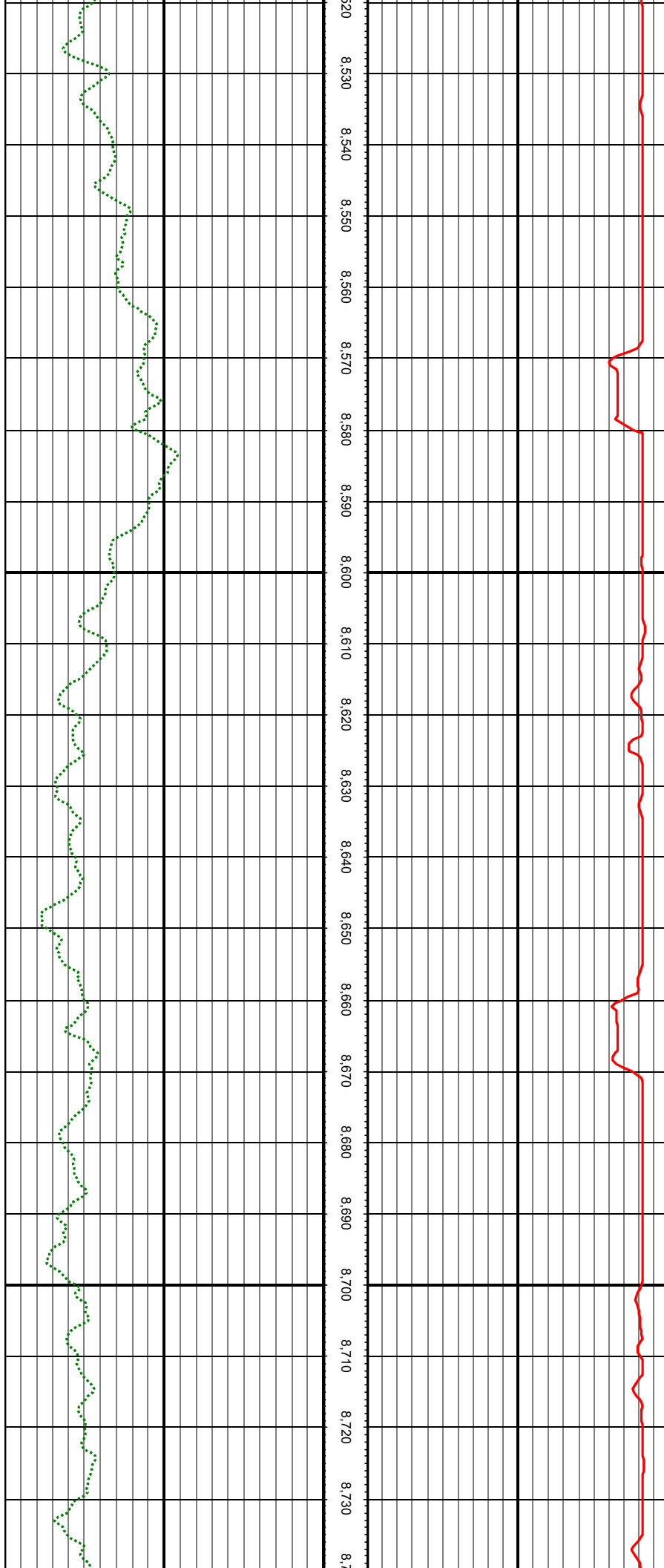
MD: 8184.00 INC: 90.99 AZ: 269.39 TVD: 6933.13 VS: 483.33

MD: 8273.00 INC: 88.00 AZ: 266.14 TVD: 6933.92 VS: 570.19



MD: 8363.00 INC: 88.53 AZ: 268.42 TVD: 6936.64 VS: 657.85

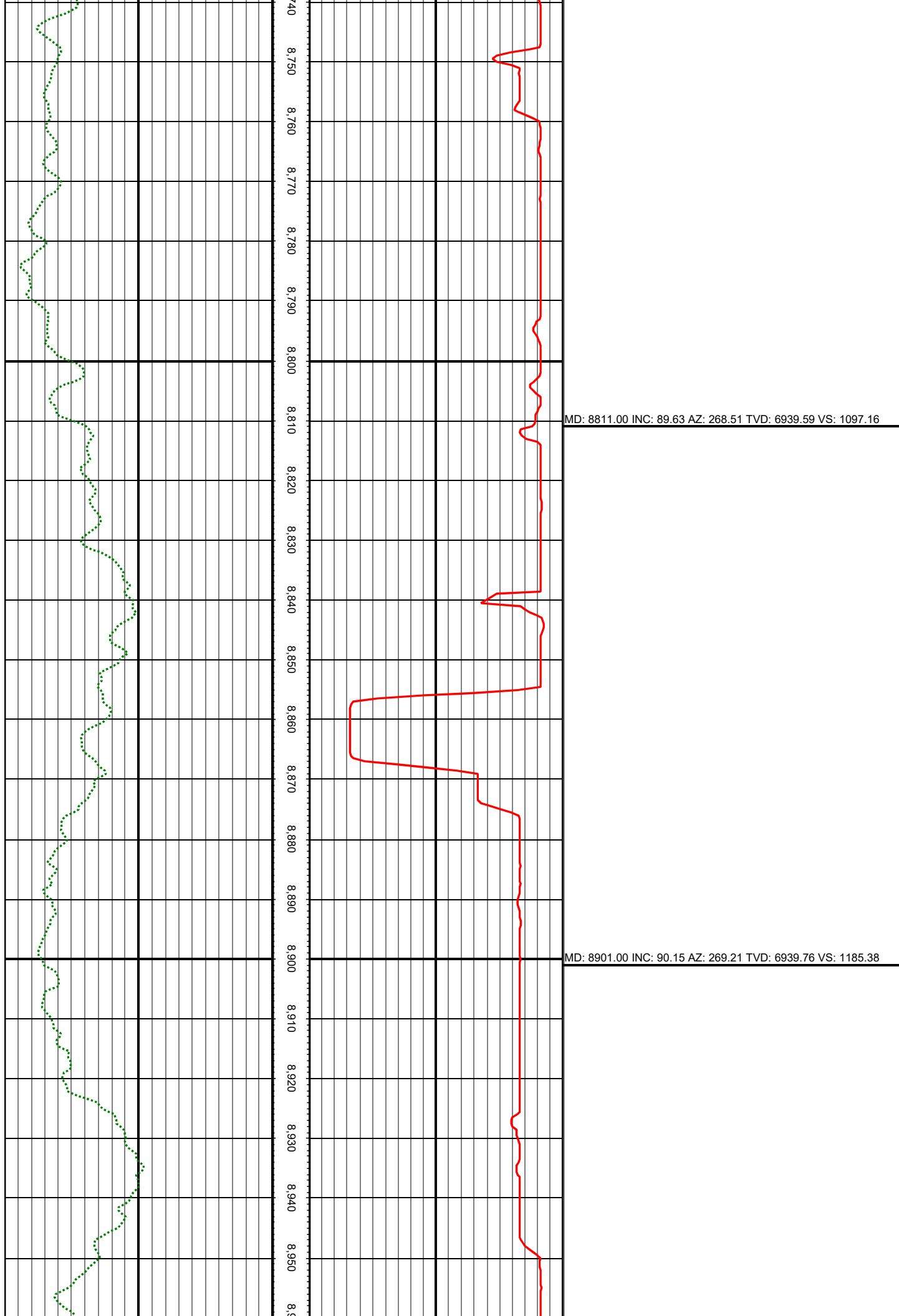
MD: 8452.00 INC: 89.32 AZ: 268.95 TVD: 6938.31 VS: 745.02

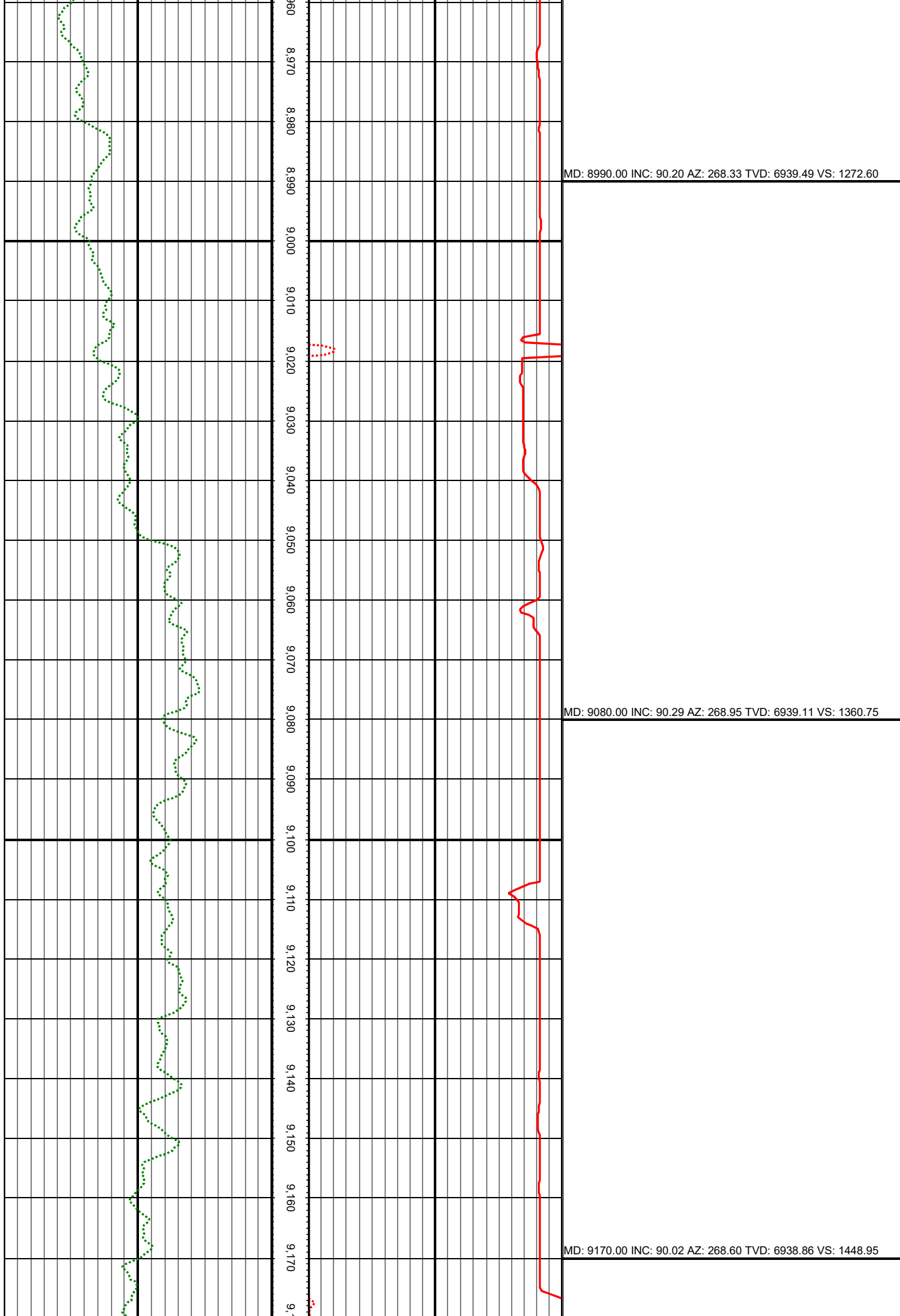


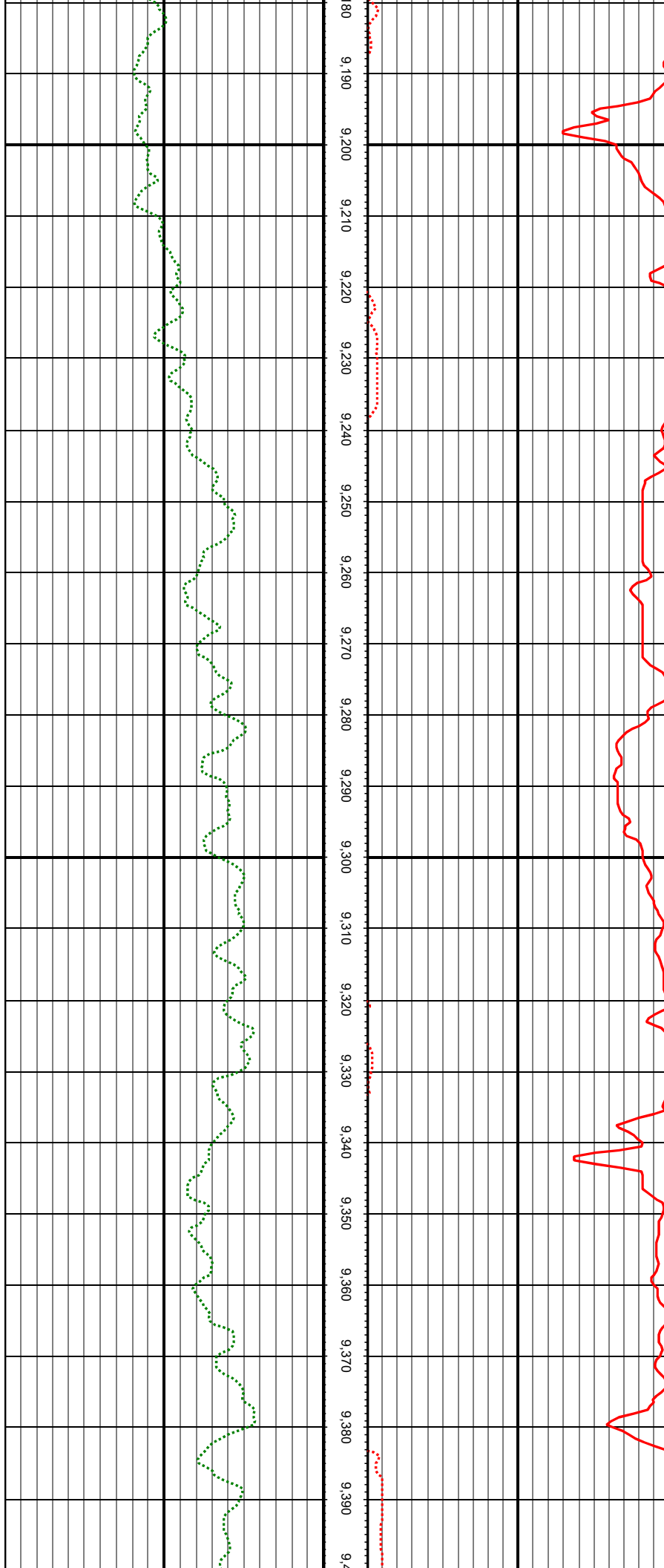
MD: 8542.00 INC: 90.02 AZ: 269.39 TVD: 6938.83 VS: 833.34

MD: 8632.00 INC: 89.89 AZ: 269.39 TVD: 6938.90 VS: 921.72

MD: 8721.00 INC: 89.80 AZ: 268.68 TVD: 6939.14 VS: 1009.02



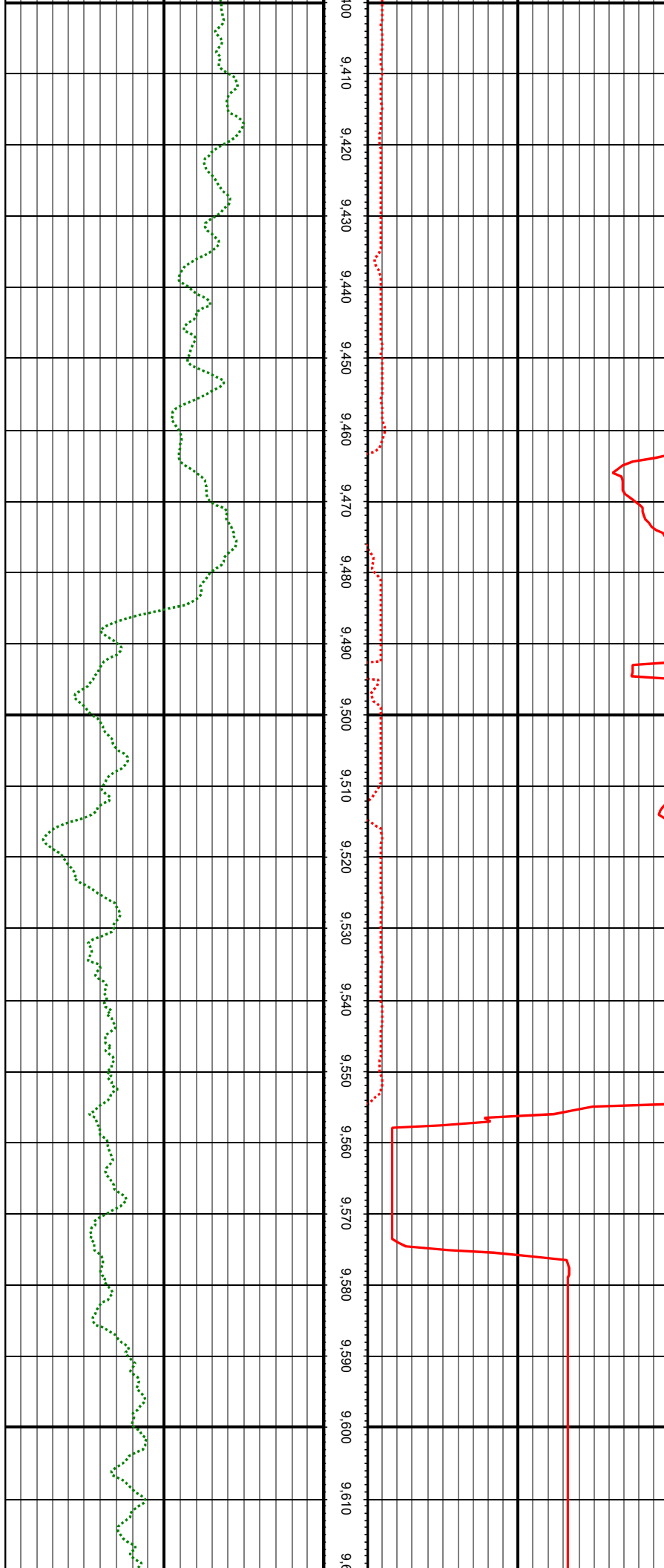




80 9,190 9,200 9,210 9,220 9,230 9,240 9,250 9,260 9,270 9,280 9,290 9,300 9,310 9,320 9,330 9,340 9,350 9,360 9,370 9,380 9,390 9,400

MD: 9259.00 INC: 90.42 AZ: 268.86 TVD: 6938.52 VS: 1536.15

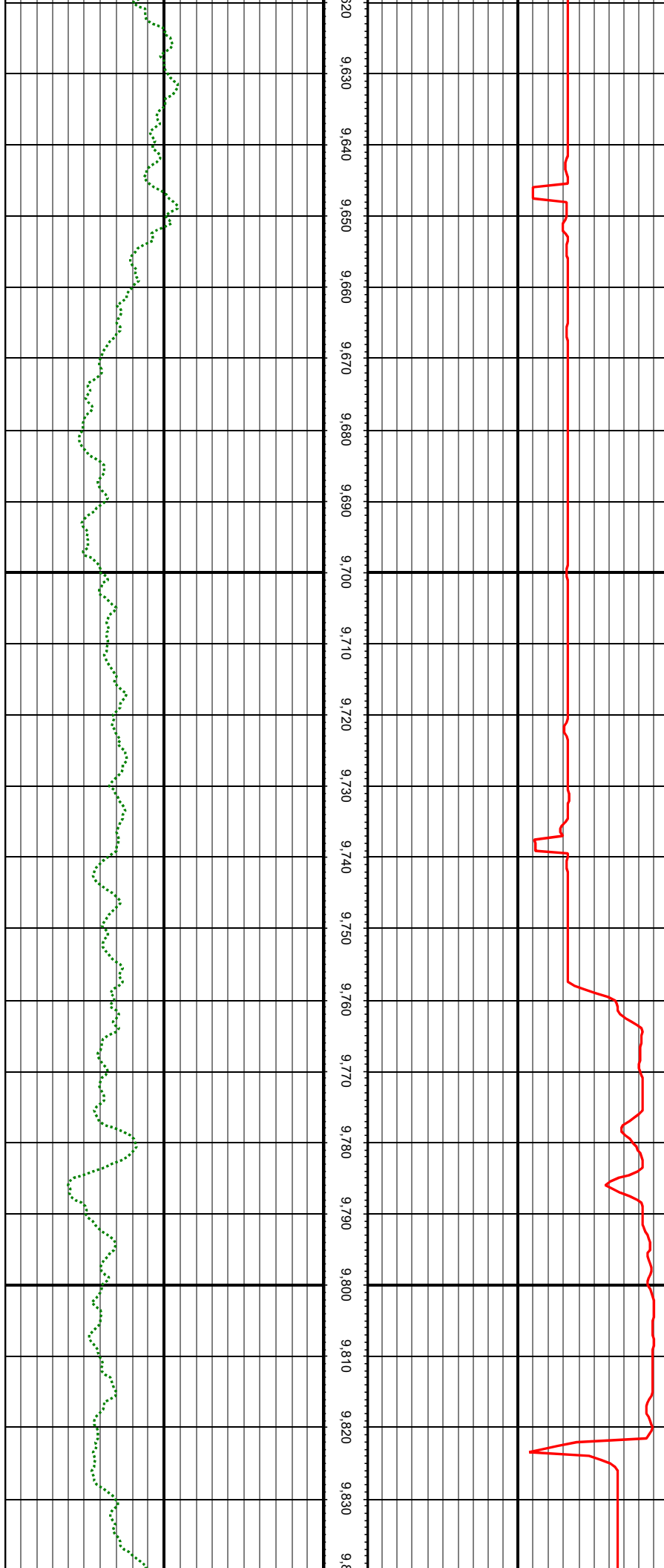
MD: 9349.00 INC: 90.20 AZ: 268.95 TVD: 6938.03 VS: 1624.39



MD: 9439.00 INC: 90.37 AZ: 269.04 TVD: 6937.59 VS: 1712.65

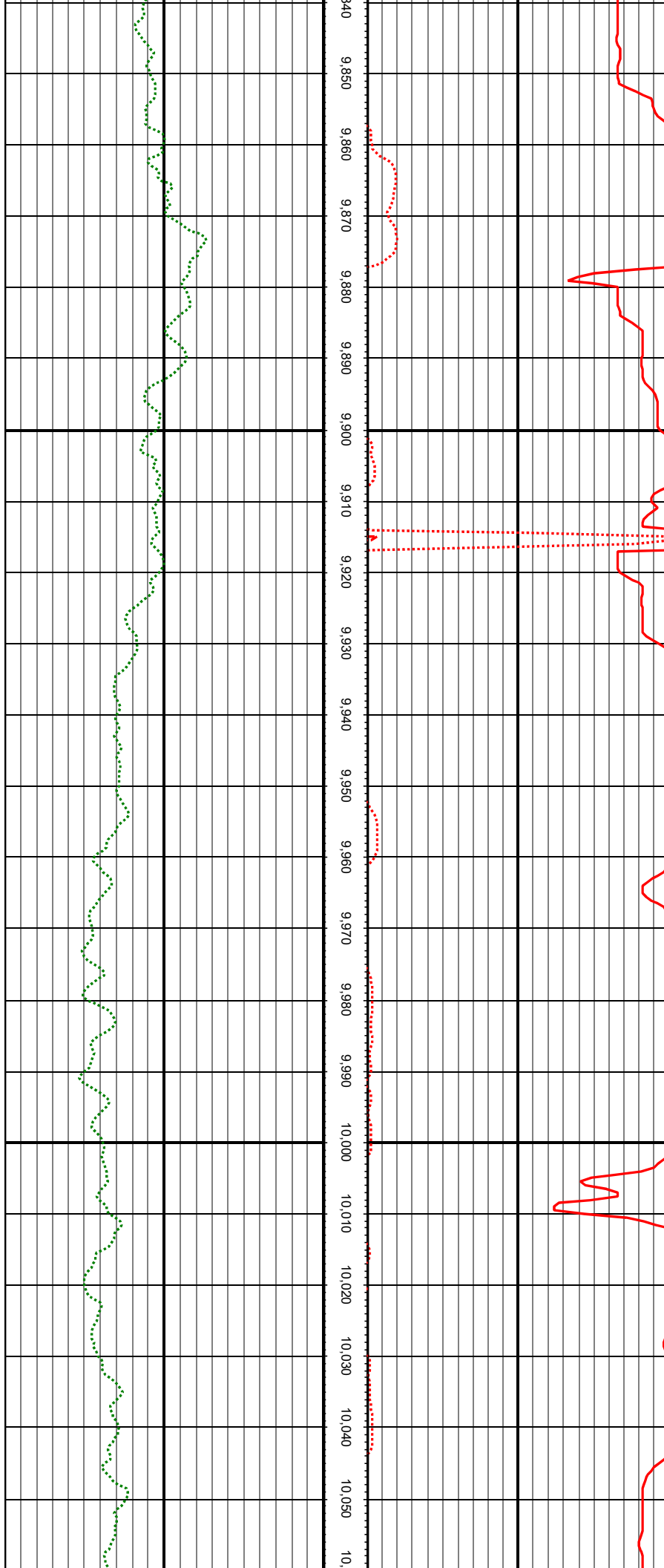
MD: 9529.00 INC: 90.29 AZ: 269.39 TVD: 6937.07 VS: 1800.99

MD: 9618.00 INC: 92.48 AZ: 269.21 TVD: 6934.92 VS: 1888.33



MD: 9708.00 INC: 92.35 AZ: 268.86 TVD: 6931.12 VS: 1976.53

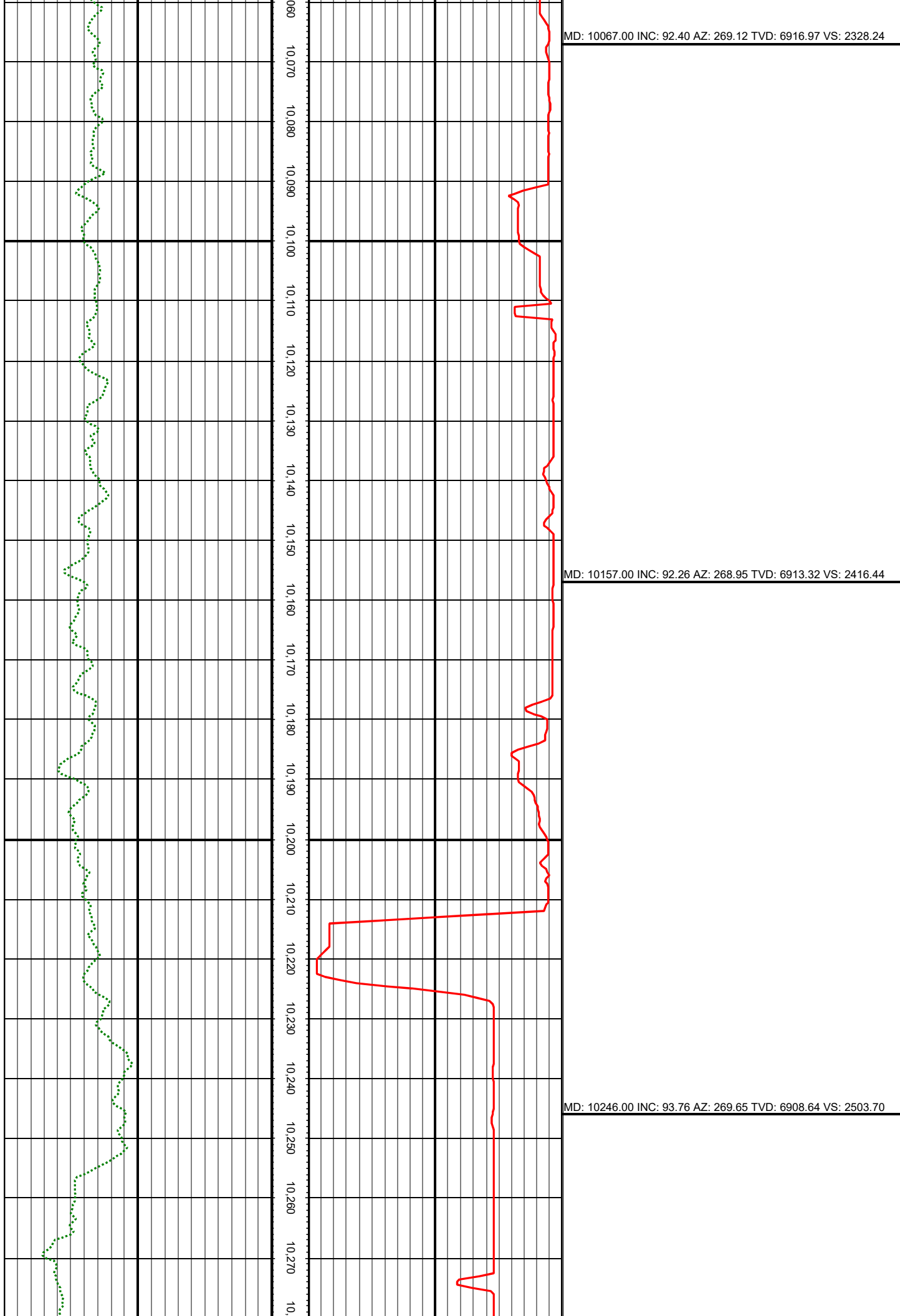
MD: 9798.00 INC: 92.53 AZ: 269.39 TVD: 6927.29 VS: 2064.76

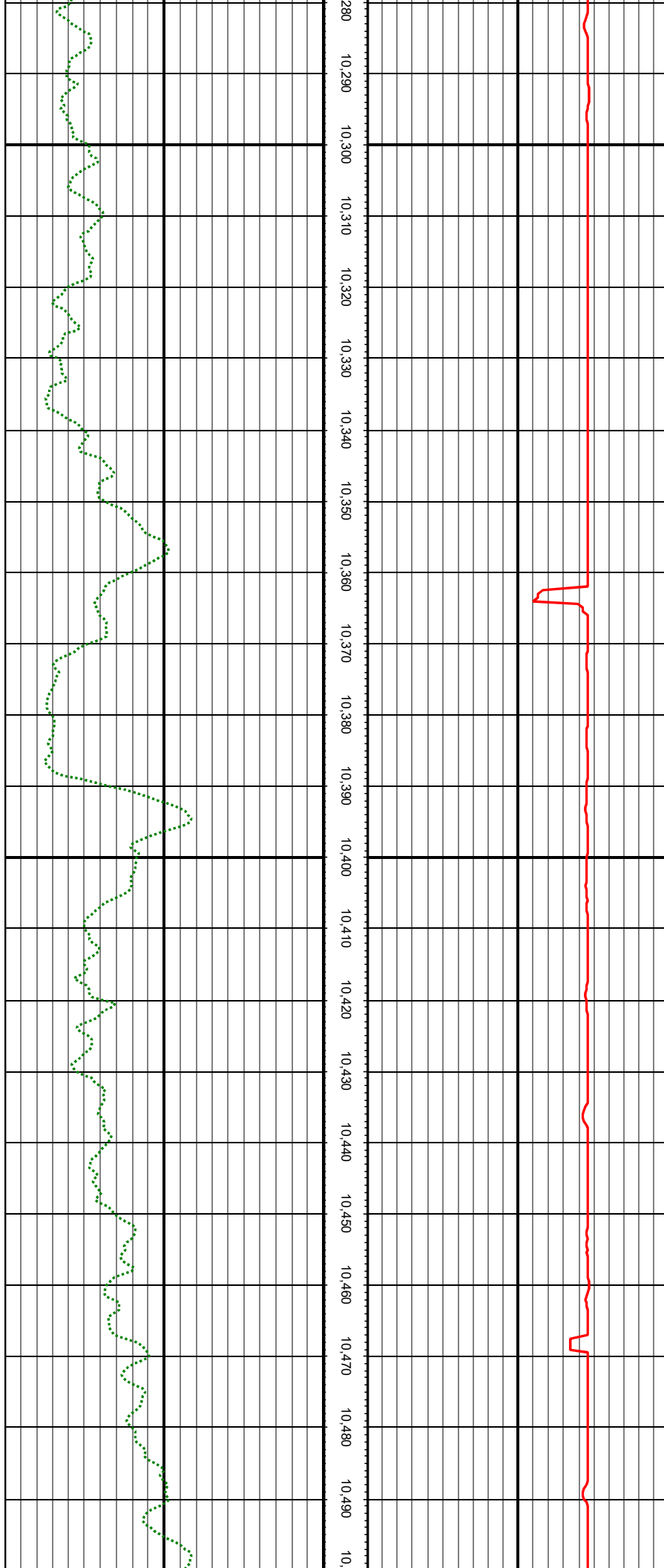


9.840 9.850 9.860 9.870 9.880 9.890 9.900 9.910 9.920 9.930 9.940 9.950 9.960 9.970 9.980 9.990 10.000 10.010 10.020 10.030 10.040 10.050 10.

MD: 9887.00 INC: 91.87 AZ: 268.51 TVD: 6923.88 VS: 2151.96

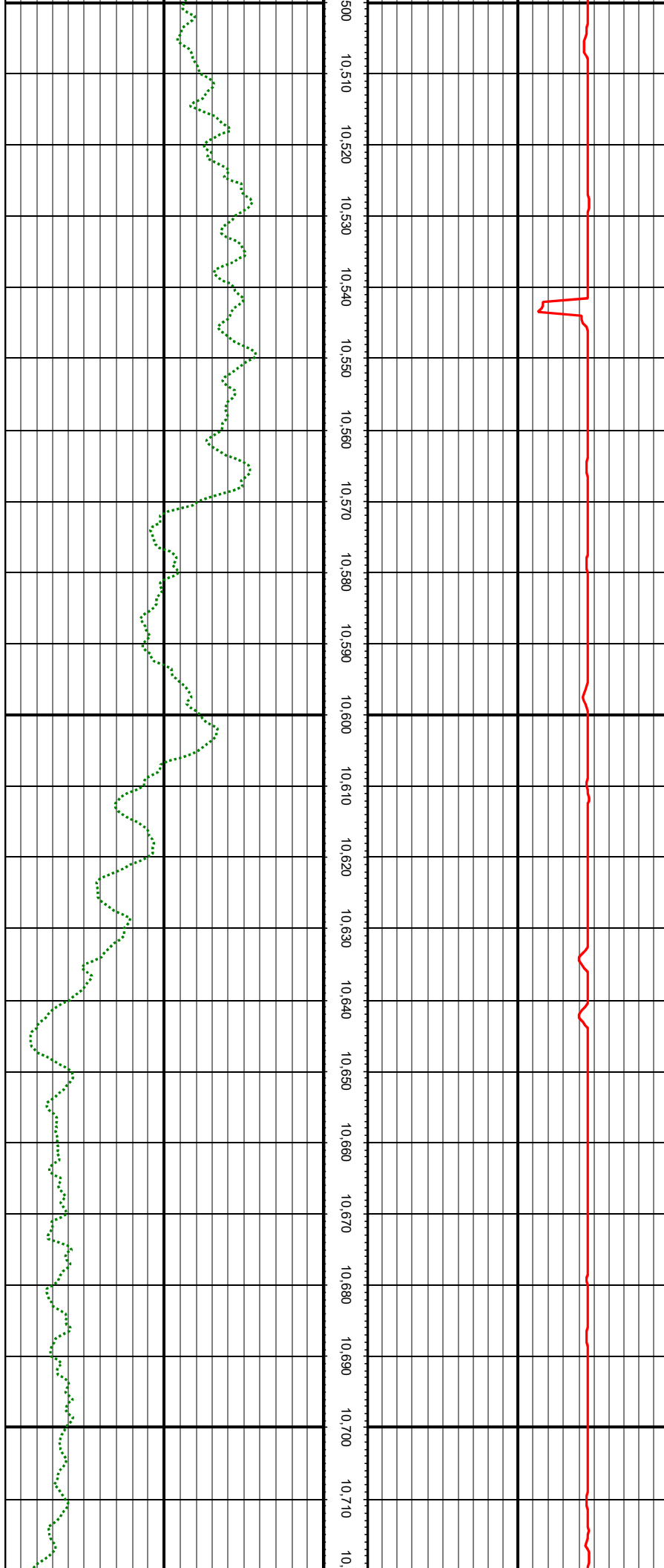
MD: 9977.00 INC: 92.26 AZ: 268.77 TVD: 6920.63 VS: 2240.06





MD: 10336.00 INC: 93.93 AZ: 268.24 TVD: 6902.61 VS: 2591.75

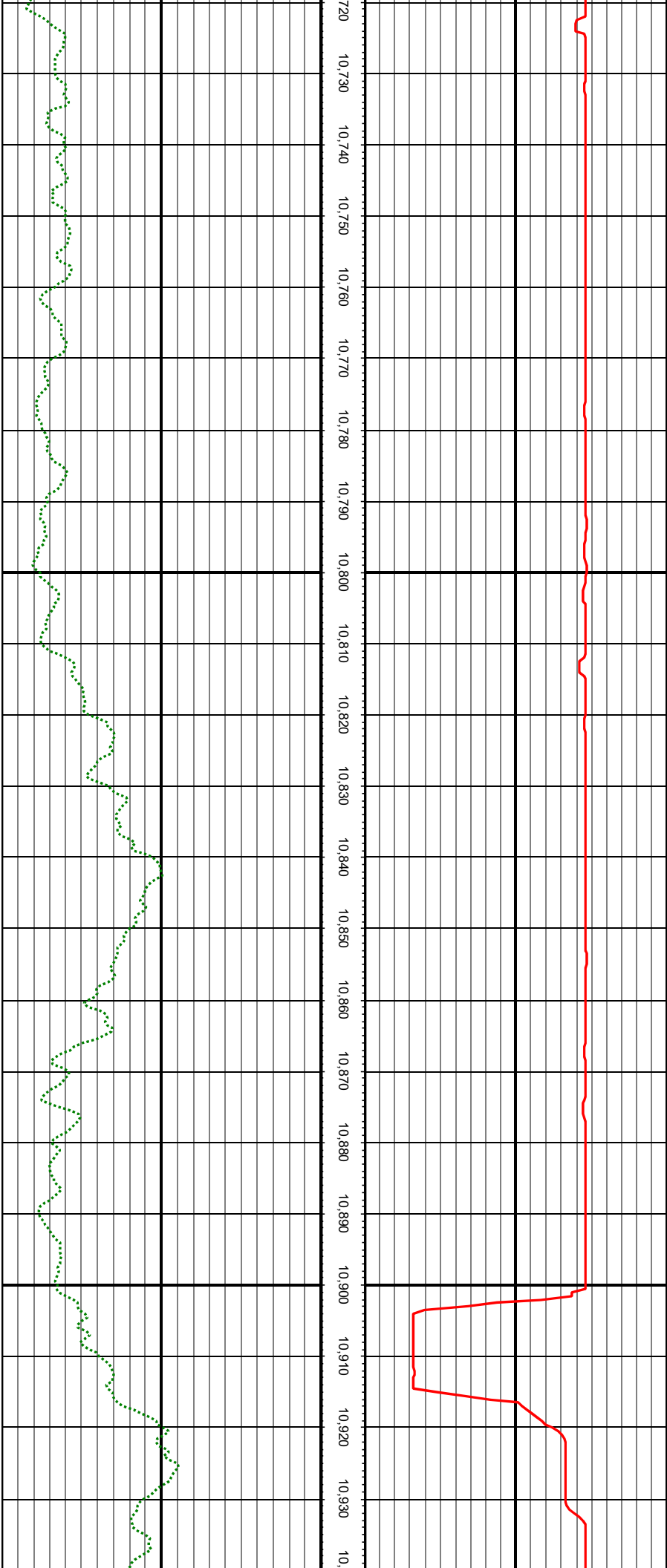
MD: 10426.00 INC: 94.11 AZ: 268.42 TVD: 6896.30 VS: 2679.59



MD: 10516.00 INC: 94.15 AZ: 268.68 TVD: 6889.82 VS: 2767.48

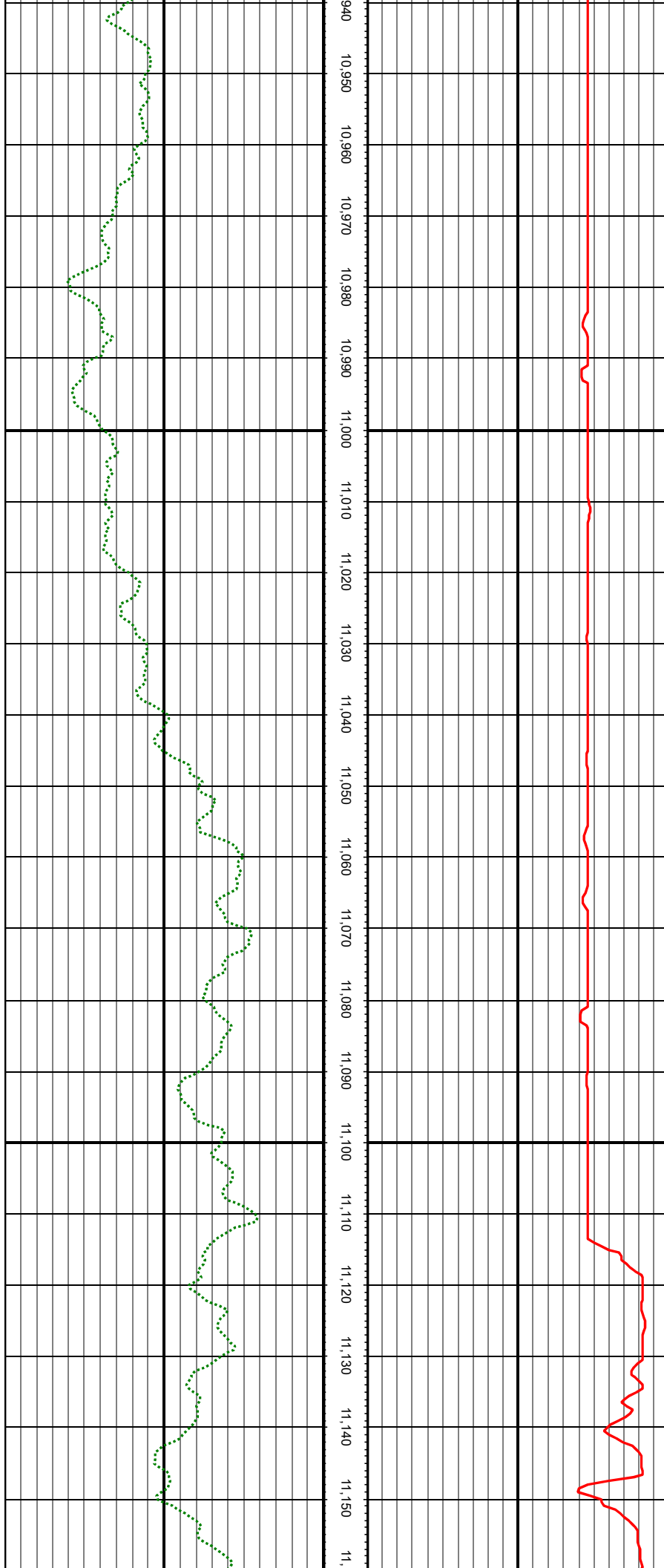
MD: 10605.00 INC: 94.20 AZ: 268.60 TVD: 6883.34 VS: 2854.43

MD: 10695.00 INC: 94.29 AZ: 268.68 TVD: 6876.67 VS: 2942.34



MD: 10785.00 INC: 94.24 AZ: 268.60 TVD: 6869.98 VS: 3030.25

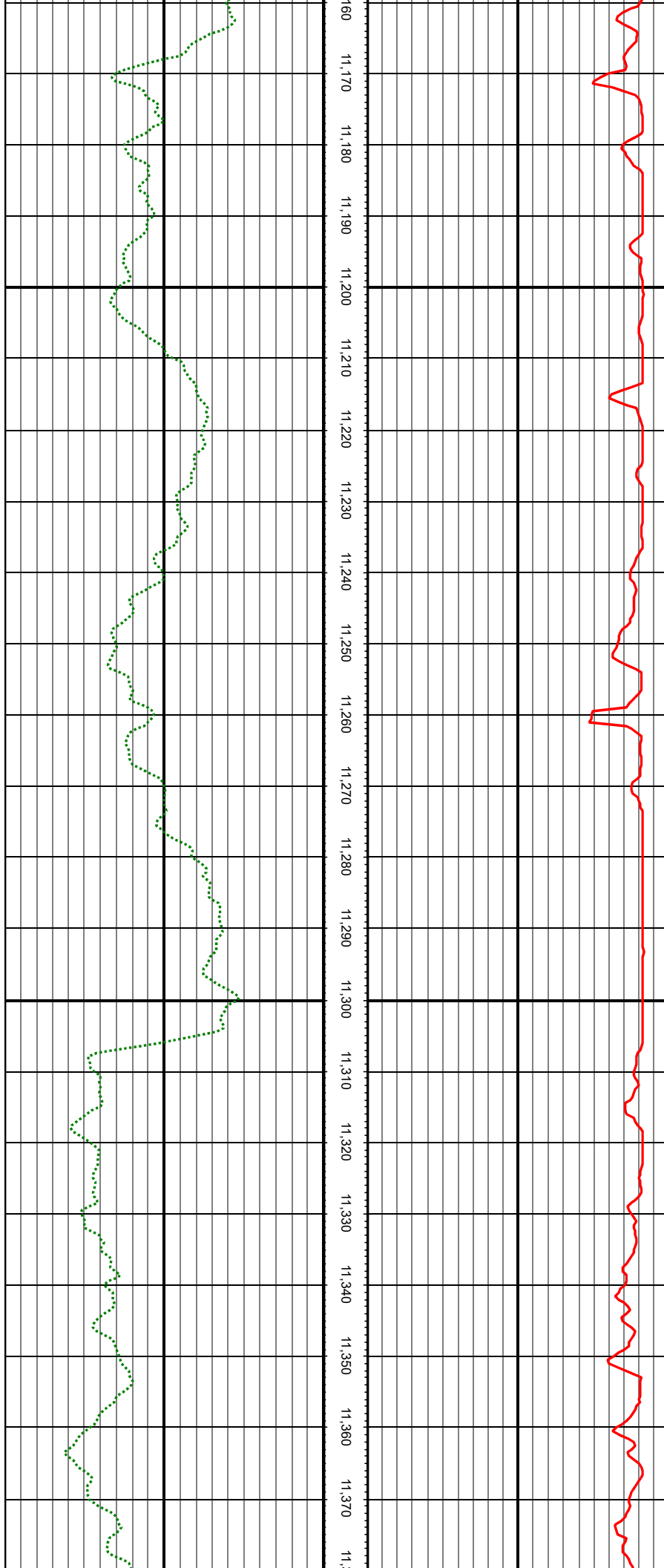
MD: 10875.00 INC: 94.11 AZ: 268.77 TVD: 6863.43 VS: 3118.19



MD: 10964.00 INC: 93.76 AZ: 270.35 TVD: 6857.32 VS: 3205.43

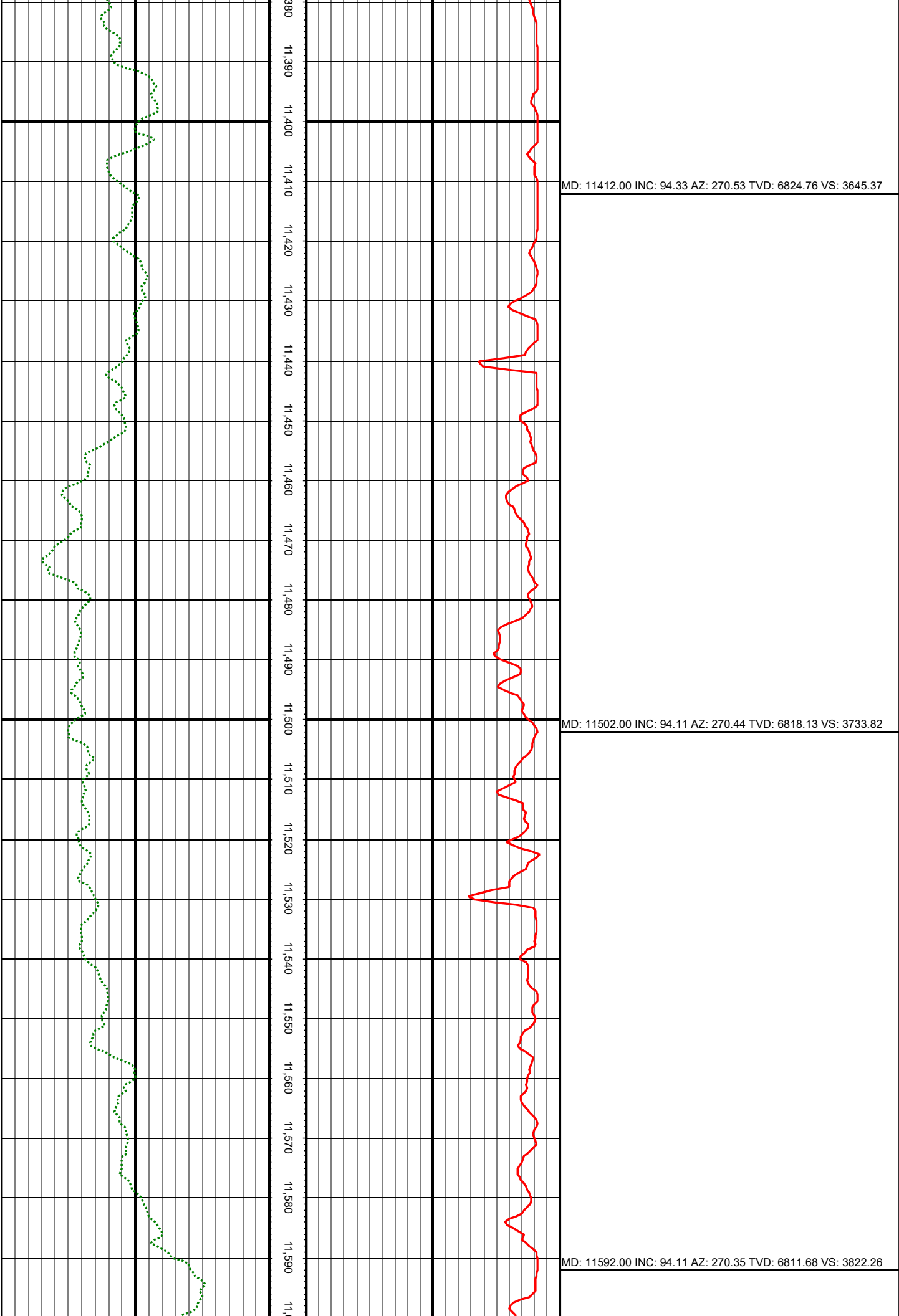
MD: 11054.00 INC: 94.29 AZ: 270.00 TVD: 6851.00 VS: 3293.82

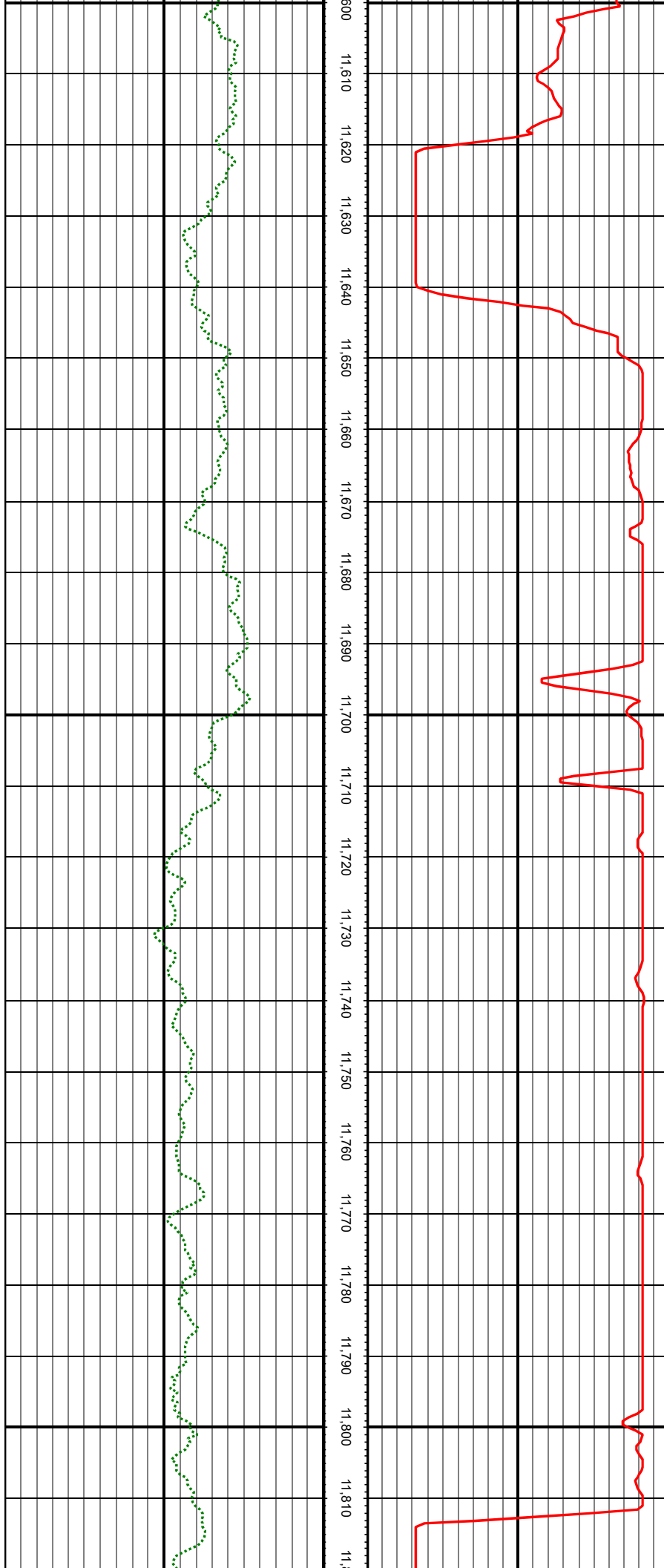
MD: 11143.00 INC: 94.29 AZ: 270.27 TVD: 6844.35 VS: 3381.19



MD: 11233.00 INC: 93.98 AZ: 270.00 TVD: 6837.86 VS: 3469.56

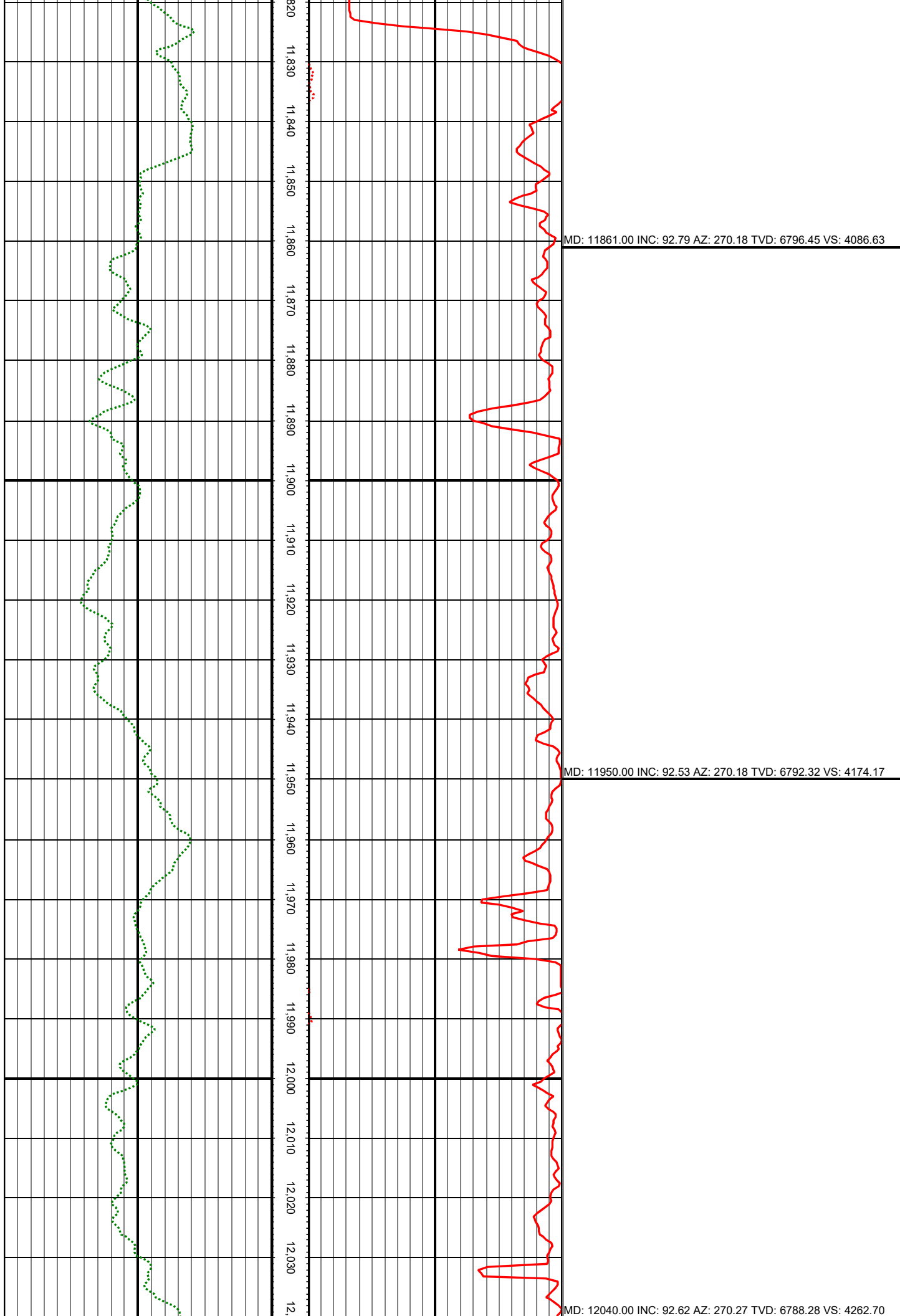
MD: 11323.00 INC: 94.24 AZ: 270.27 TVD: 6831.41 VS: 3557.93

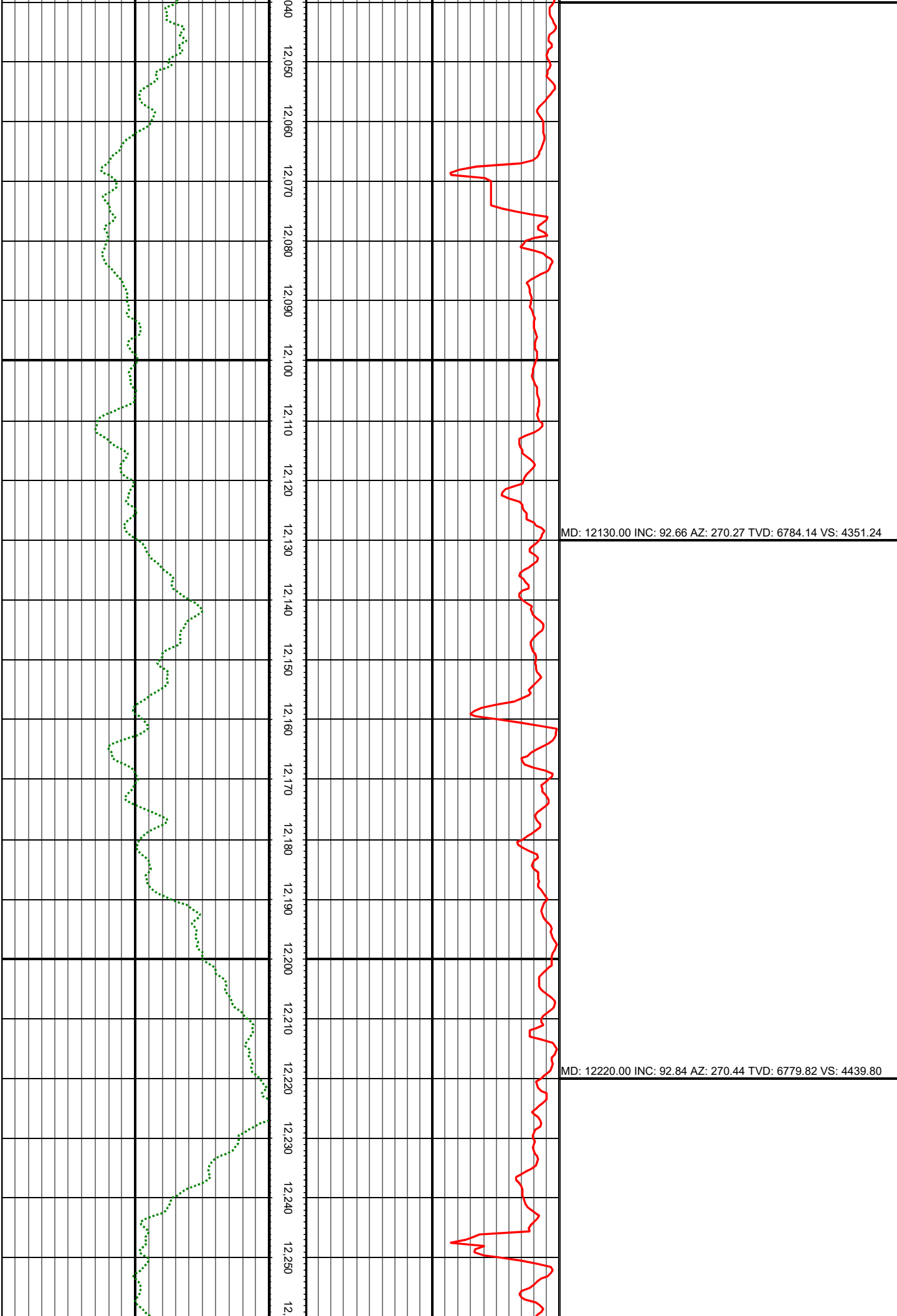


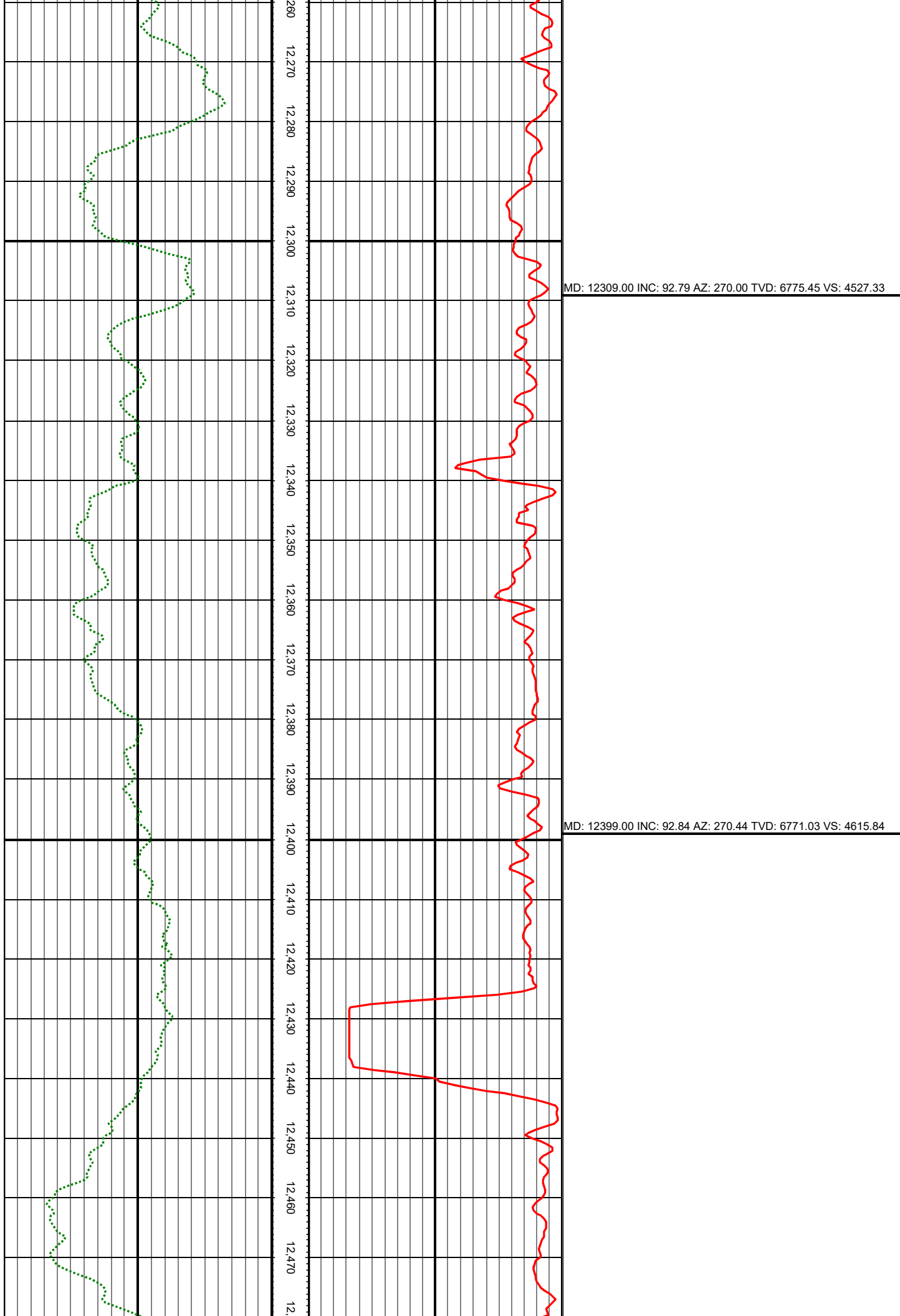


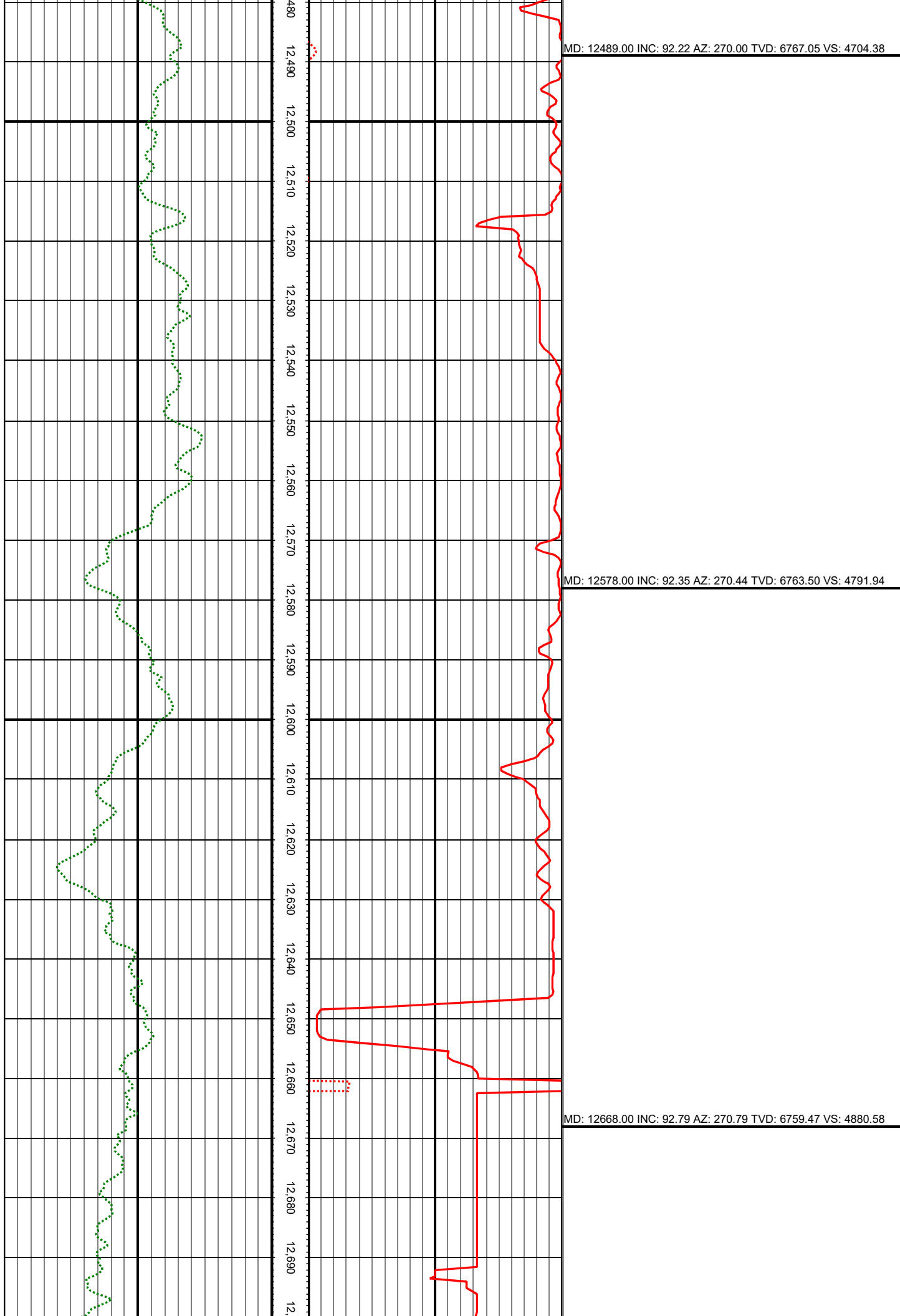
MD: 11681.00 INC: 93.10 AZ: 269.83 TVD: 6806.09 VS: 3909.69

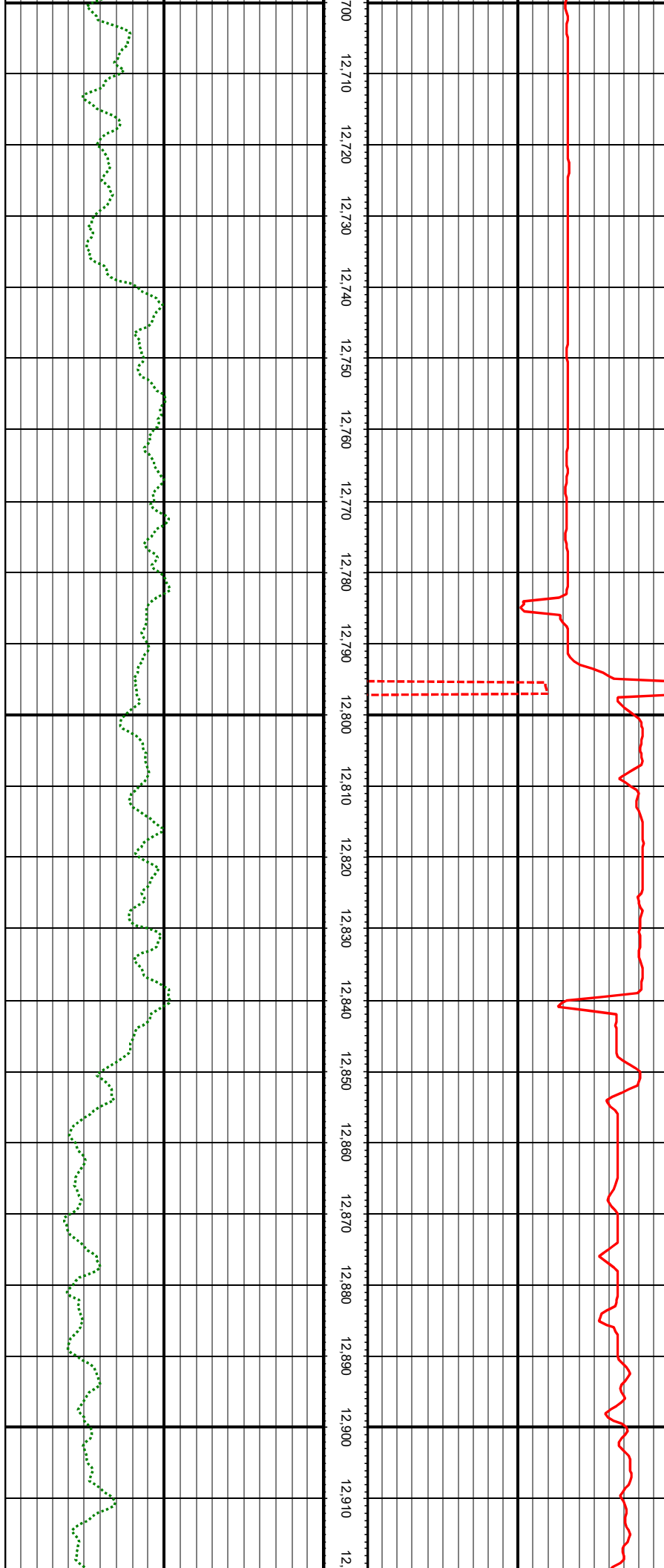
MD: 11771.00 INC: 93.19 AZ: 270.27 TVD: 6801.15 VS: 3998.13





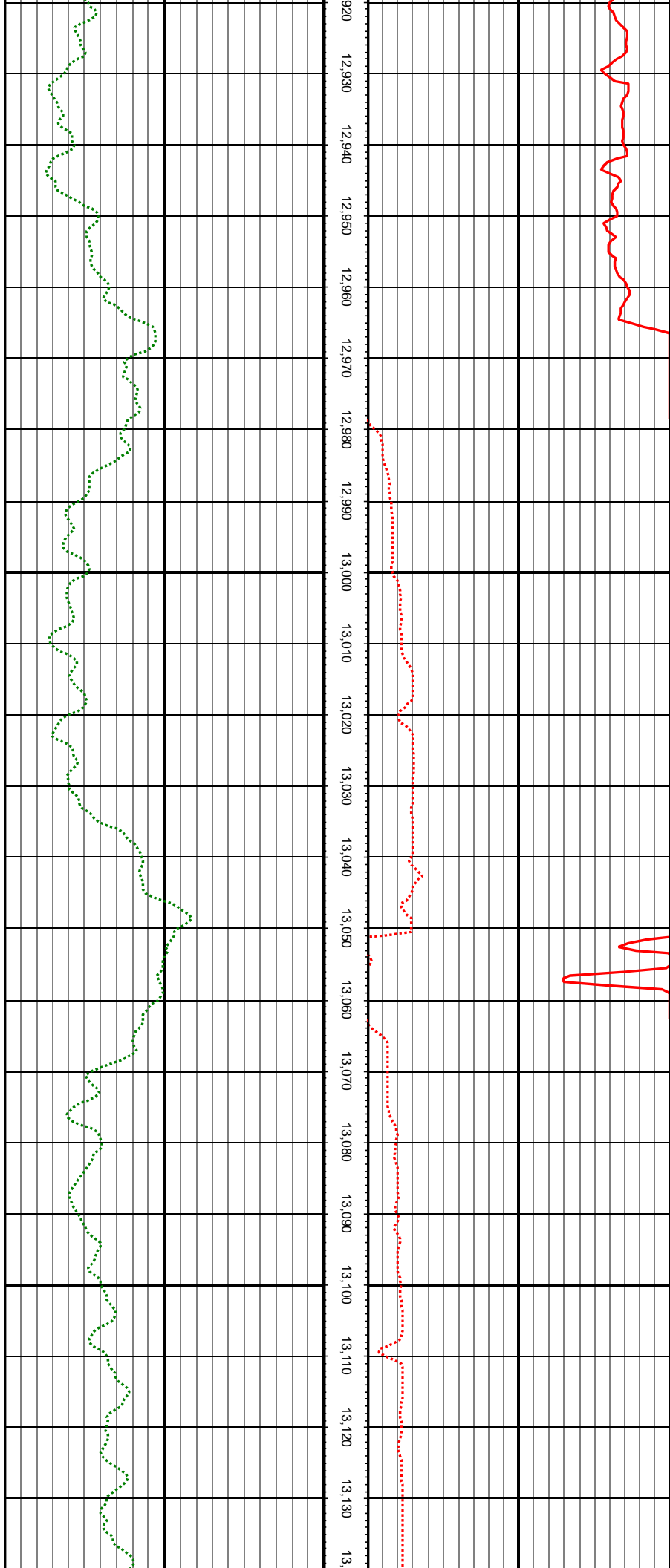






MD: 12758.00 INC: 93.80 AZ: 270.27 TVD: 6754.30 VS: 4969.14

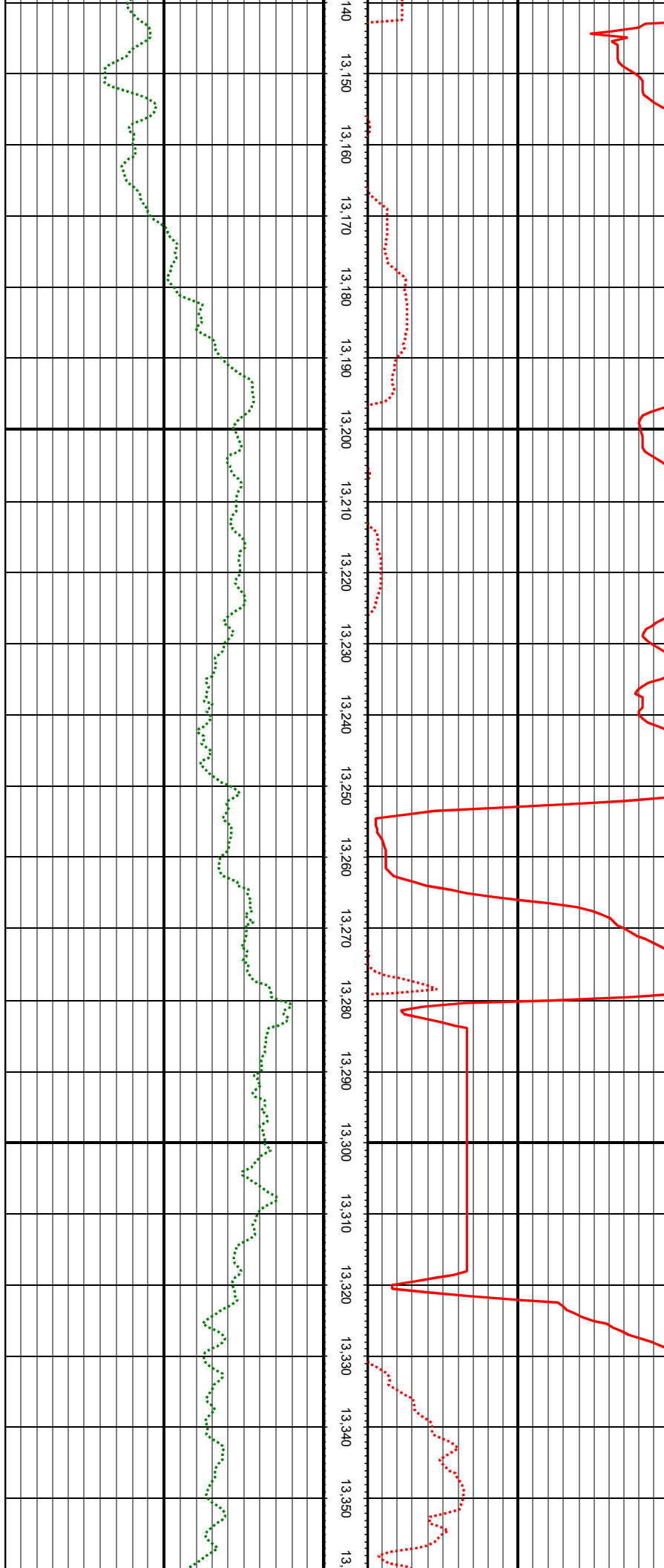
MD: 12848.00 INC: 93.71 AZ: 270.44 TVD: 6748.40 VS: 5057.61



MD: 12937.00 INC: 93.67 AZ: 270.09 TVD: 6742.67 VS: 5145.08

MD: 13027.00 INC: 93.67 AZ: 270.27 TVD: 6736.91 VS: 5233.50

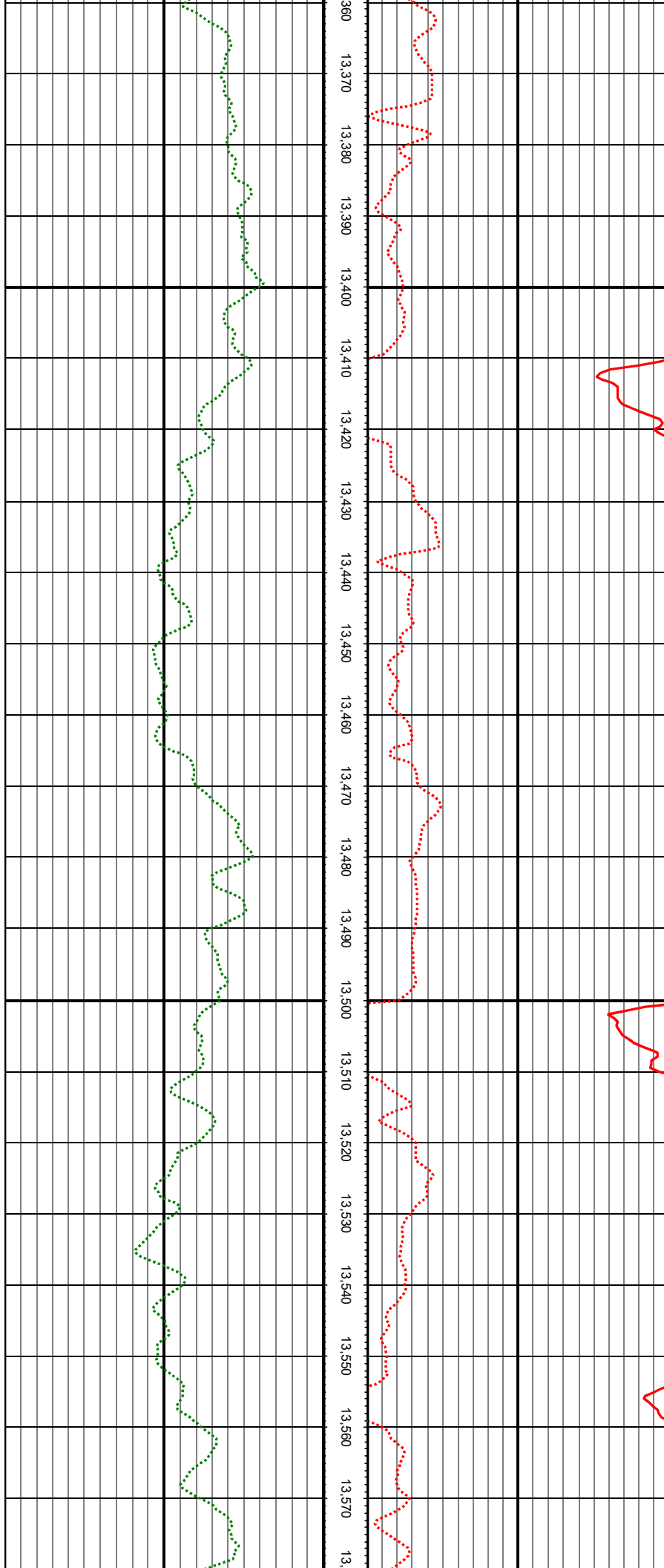
MD: 13116.00 INC: 93.67 AZ: 270.09 TVD: 6731.22 VS: 5320.95



13,400 13,150 13,160 13,170 13,180 13,190 13,200 13,210 13,220 13,230 13,240 13,250 13,260 13,270 13,280 13,290 13,300 13,310 13,320 13,330 13,340 13,350 13,

MD: 13206.00 INC: 93.76 AZ: 270.00 TVD: 6725.39 VS: 5409.34

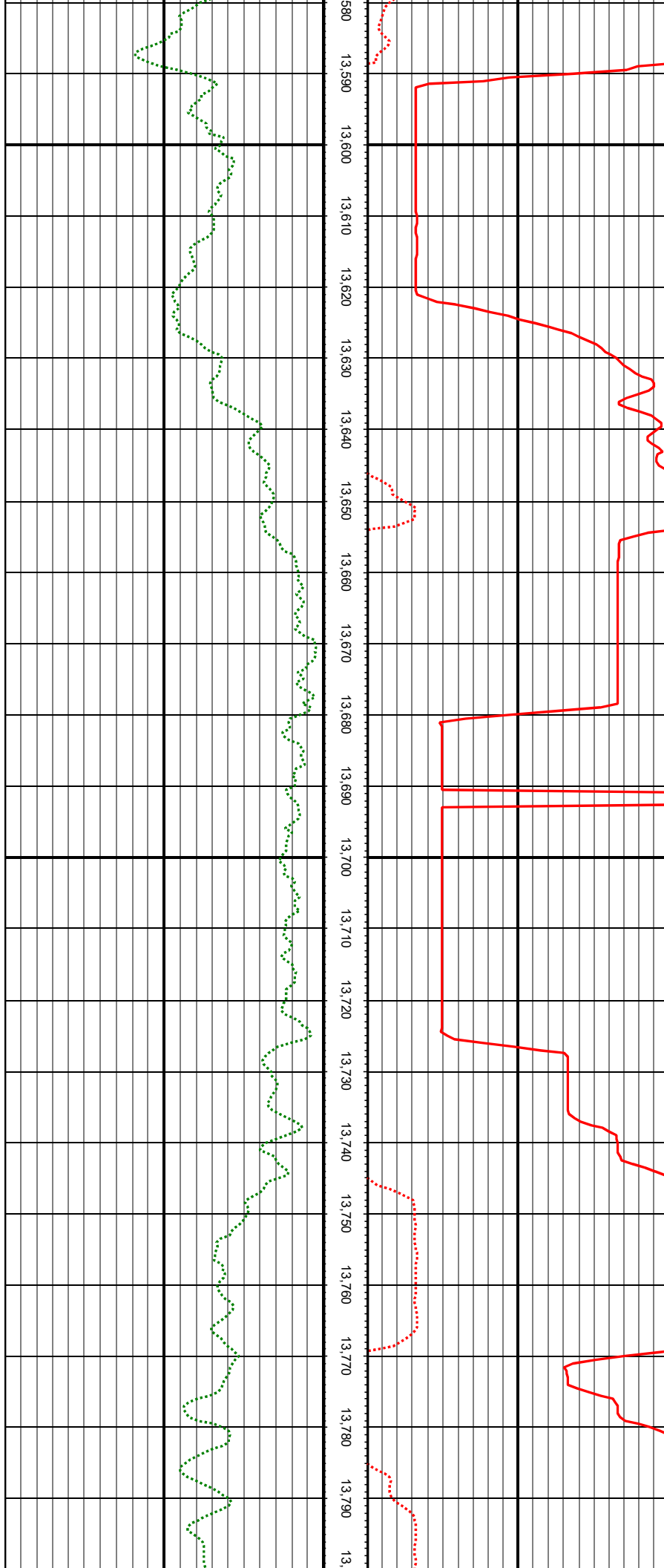
MD: 13296.00 INC: 93.01 AZ: 269.74 TVD: 6720.07 VS: 5497.71



MD: 13385.00 INC: 92.53 AZ: 267.72 TVD: 6715.77 VS: 5584.80

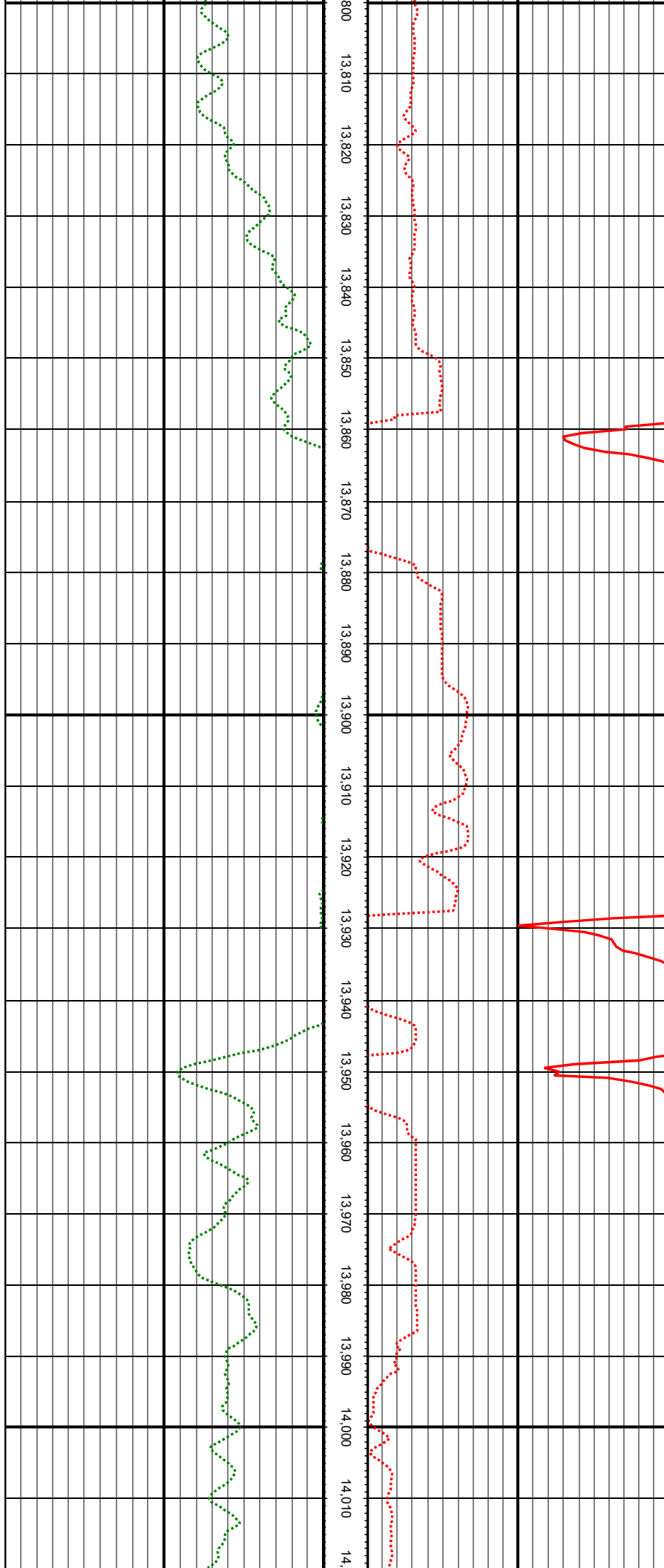
MD: 13475.00 INC: 92.57 AZ: 268.33 TVD: 6711.77 VS: 5672.67

MD: 13565.00 INC: 92.48 AZ: 268.42 TVD: 6707.80 VS: 5760.66



MD: 13654.00 INC: 90.73 AZ: 267.54 TVD: 6705.31 VS: 5847.58

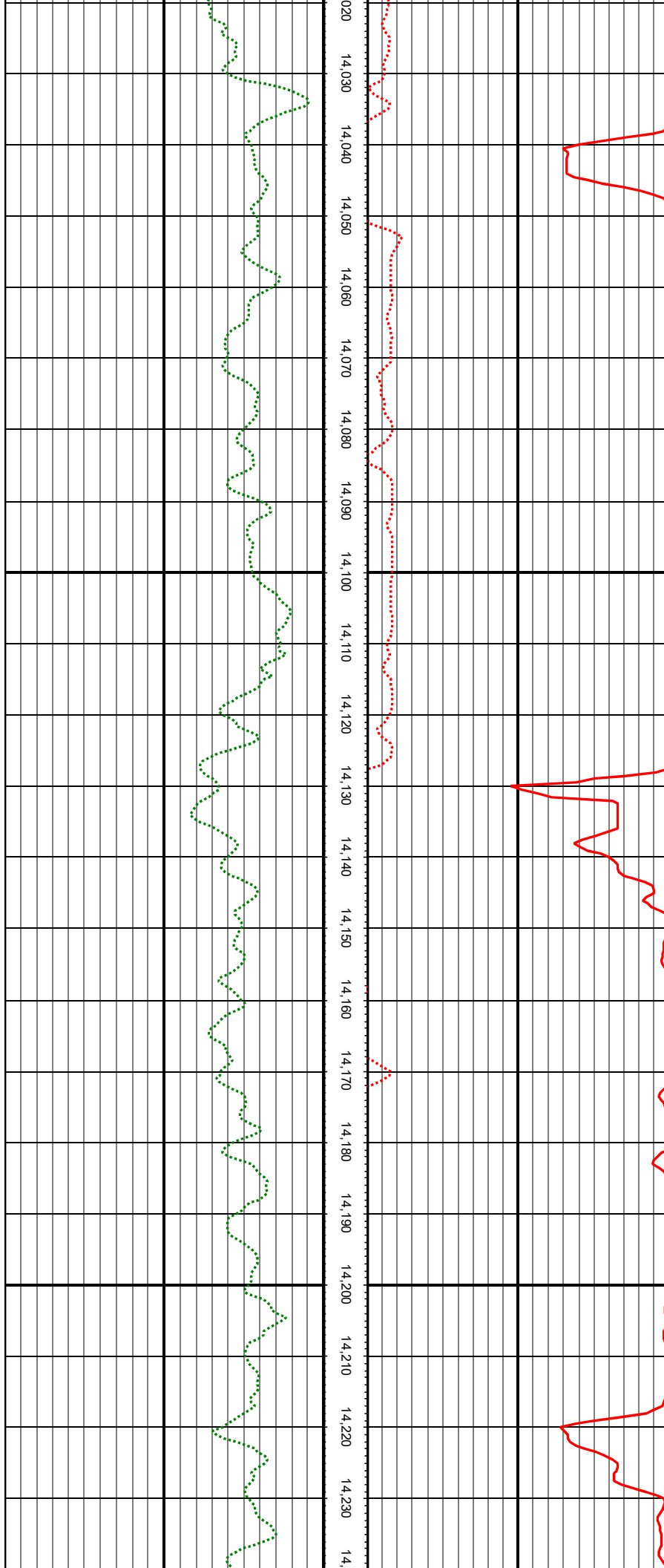
MD: 13744.00 INC: 89.45 AZ: 268.33 TVD: 6705.17 VS: 5935.51



MD: 13834.00 INC: 90.07 AZ: 270.27 TVD: 6705.54 VS: 6023.86

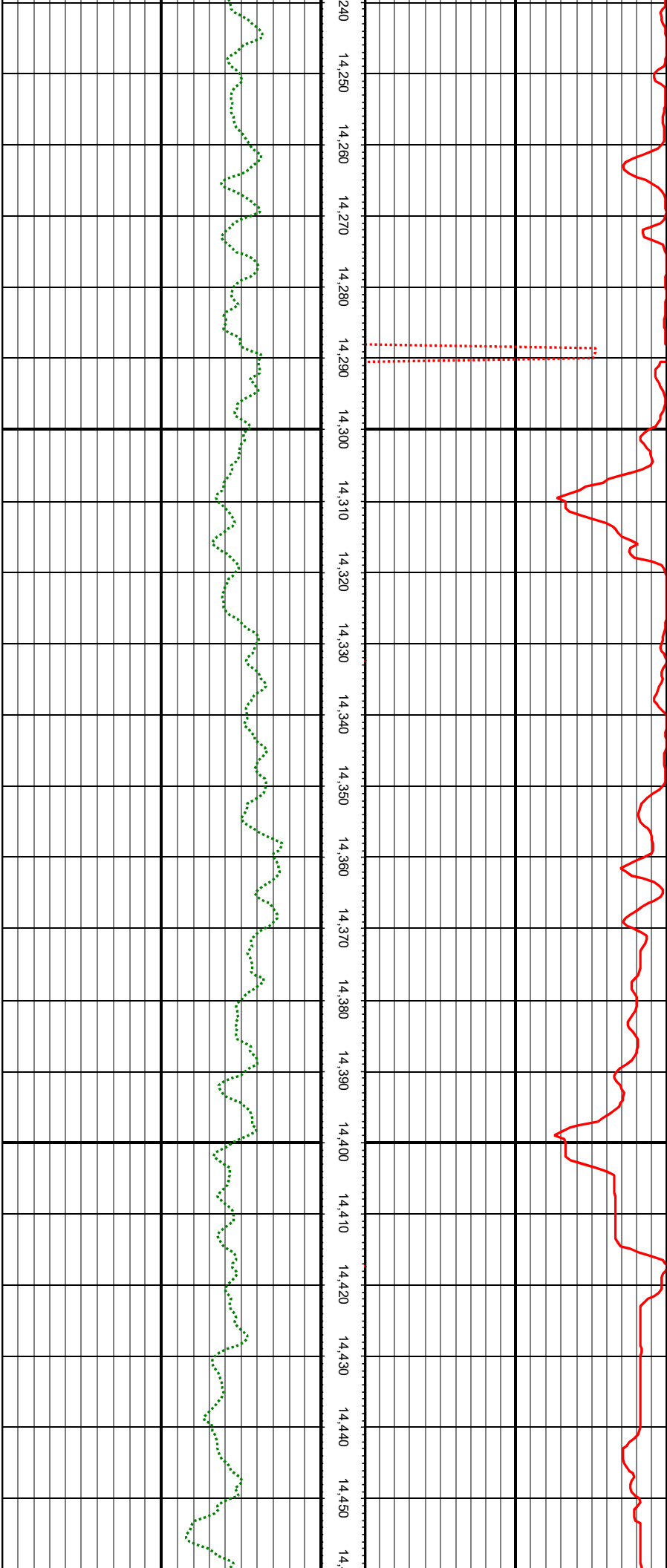
MD: 13923.00 INC: 90.11 AZ: 269.48 TVD: 6705.40 VS: 6111.40

MD: 14013.00 INC: 89.93 AZ: 270.00 TVD: 6705.37 VS: 6199.89



MD: 14103.00 INC: 90.07 AZ: 270.09 TVD: 6705.37 VS: 6288.46

MD: 14193.00 INC: 90.07 AZ: 270.09 TVD: 6705.26 VS: 6377.05



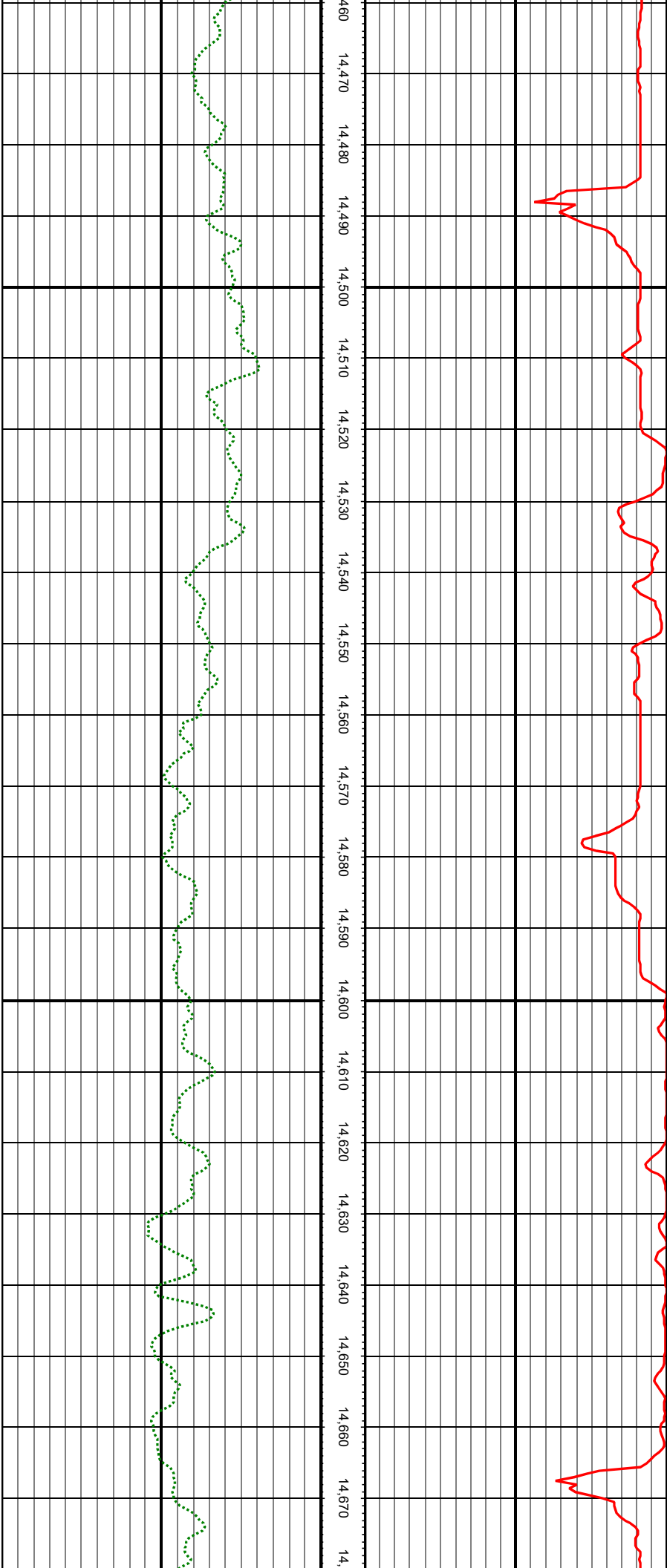
MD: 14282.00 INC: 90.07 AZ: 270.27 TVD: 6705.15 VS: 6464.67

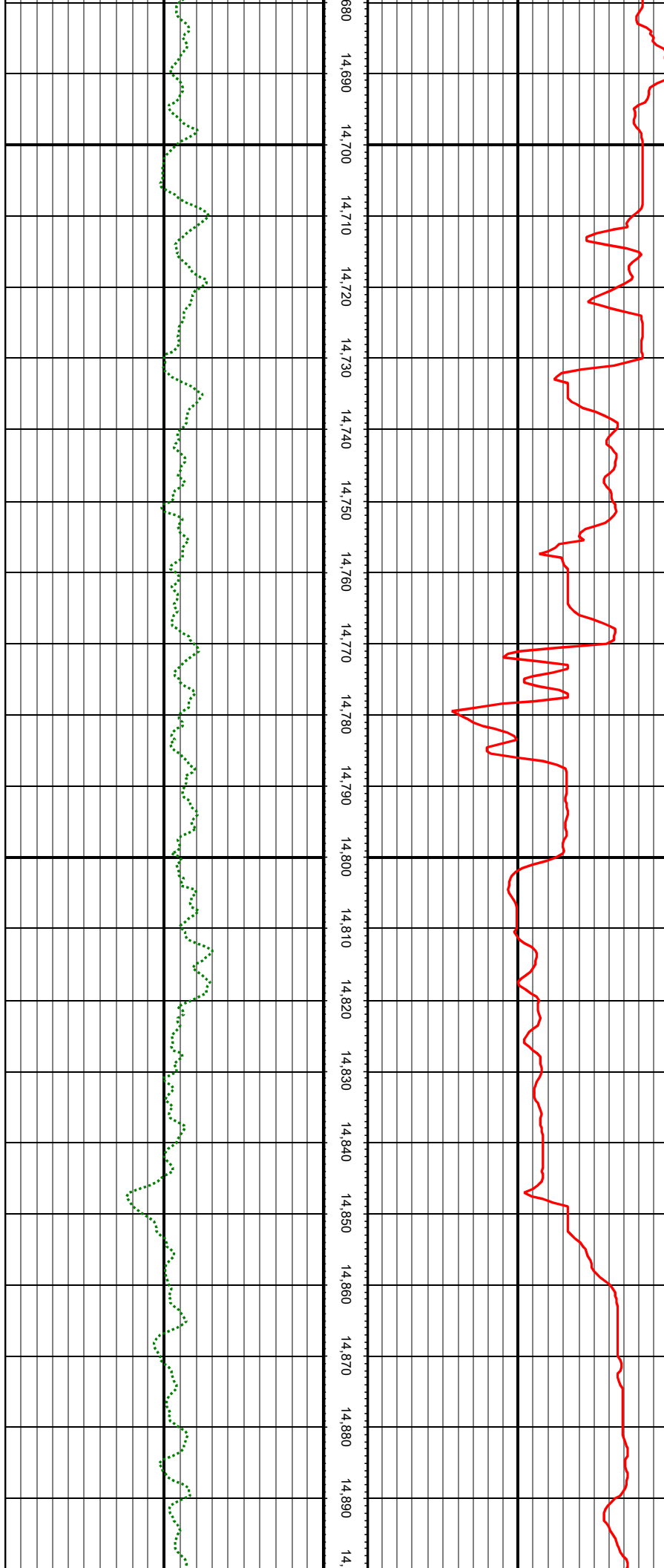
MD: 14372.00 INC: 89.93 AZ: 269.91 TVD: 6705.15 VS: 6553.26

MD: 14462.00 INC: 89.98 AZ: 270.00 TVD: 6705.22 VS: 6641.81

MD: 14552.00 INC: 90.11 AZ: 270.09 TVD: 6705.15 VS: 6730.38

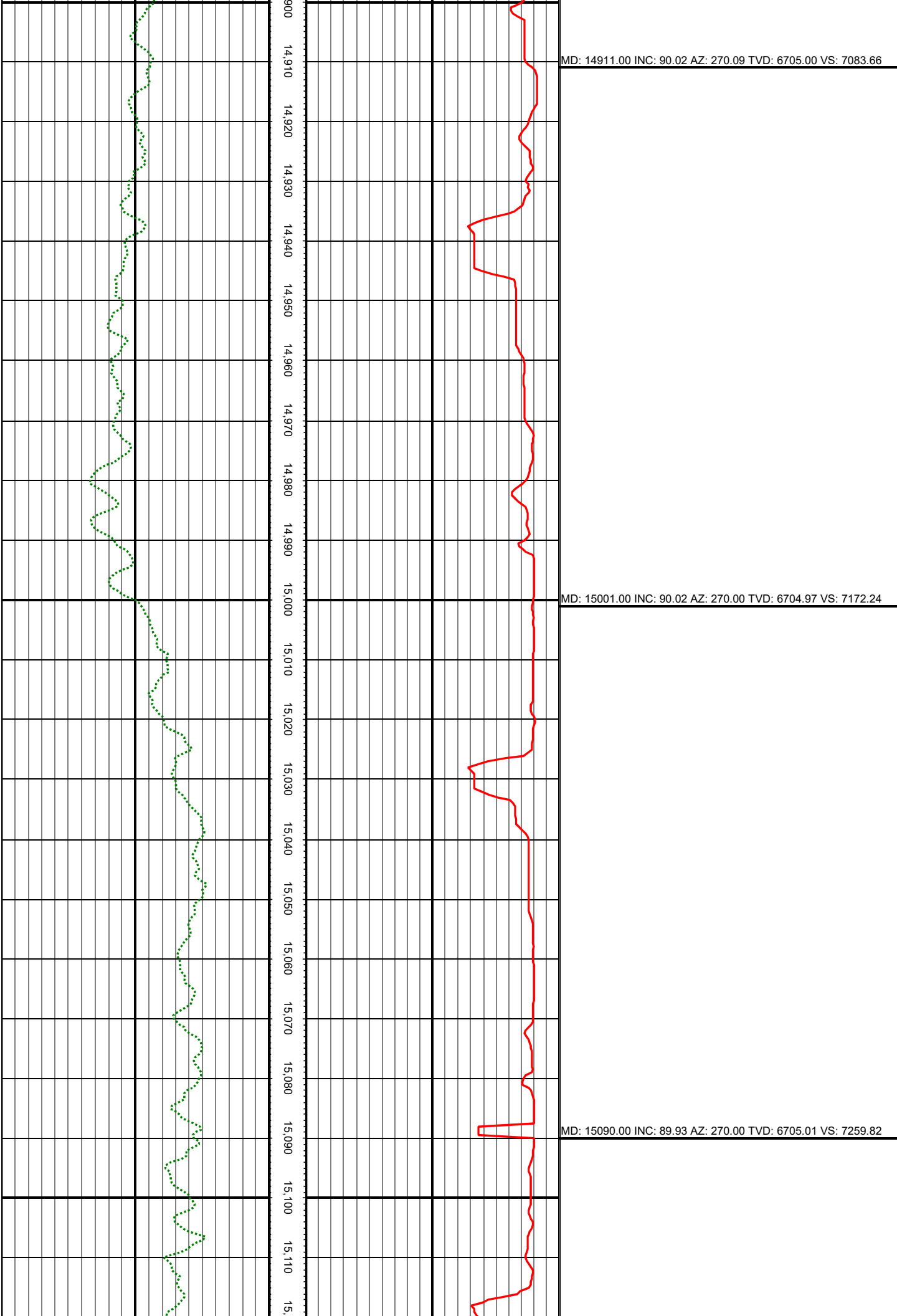
MD: 14642.00 INC: 90.07 AZ: 270.00 TVD: 6705.01 VS: 6818.95

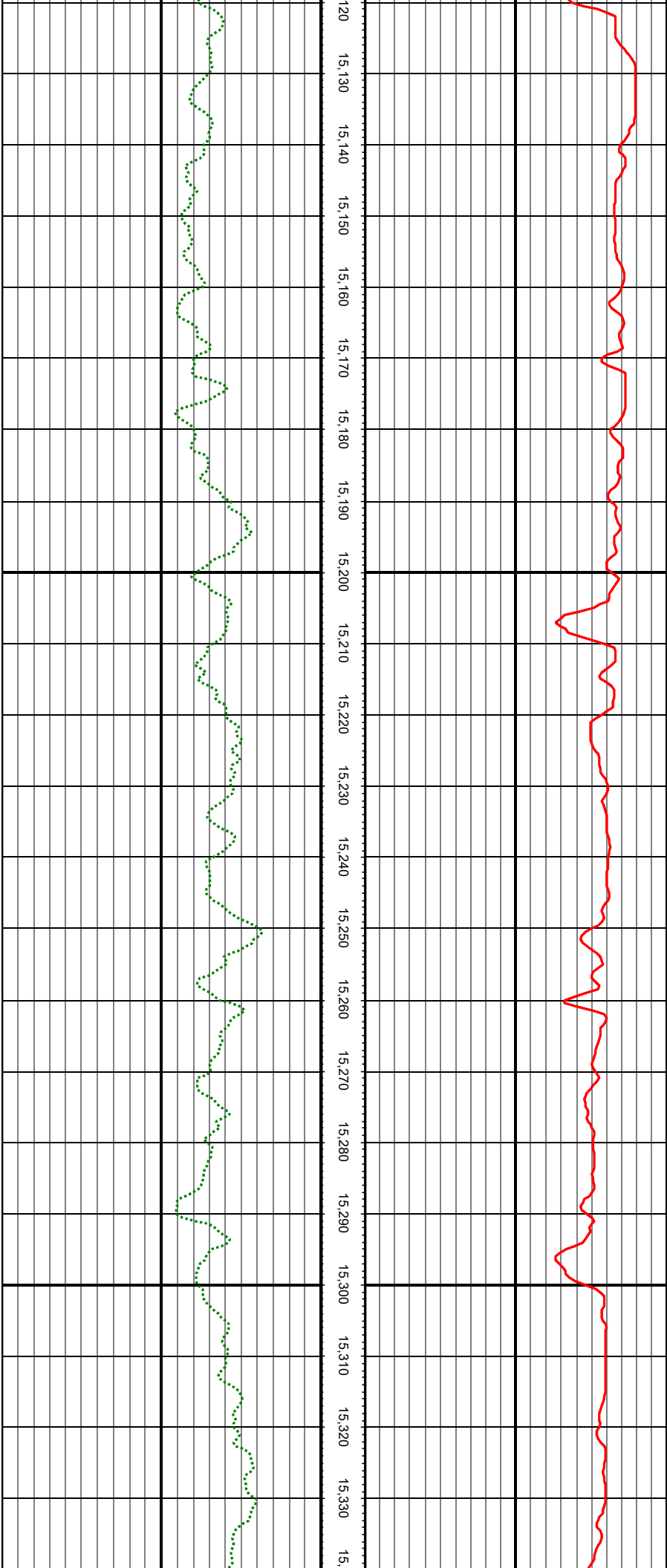




MD: 14731.00 INC: 89.98 AZ: 270.00 TVD: 6704.97 VS: 6906.53

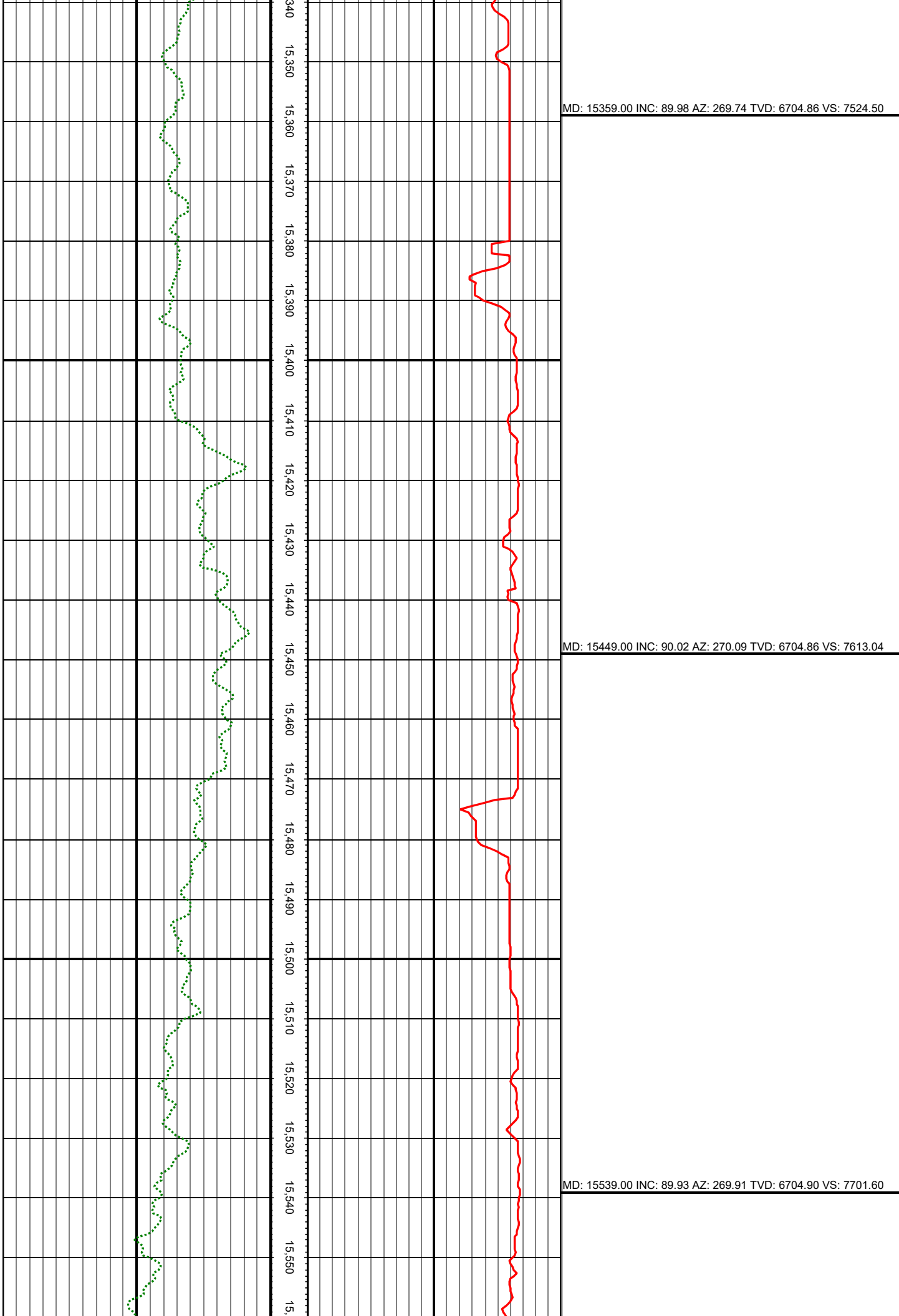
MD: 14821.00 INC: 89.98 AZ: 270.00 TVD: 6705.00 VS: 6995.09

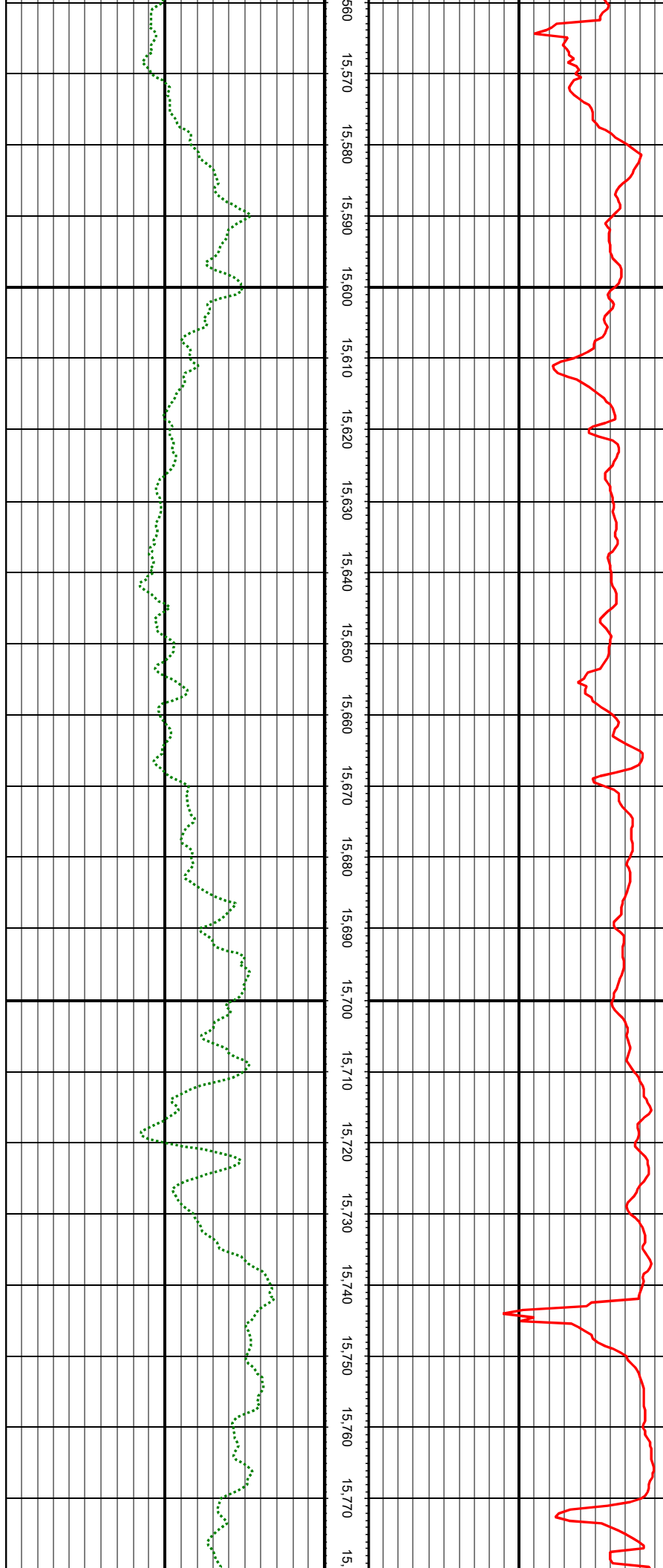




MD: 15180.00 INC: 90.07 AZ: 270.09 TVD: 6705.01 VS: 7348.39

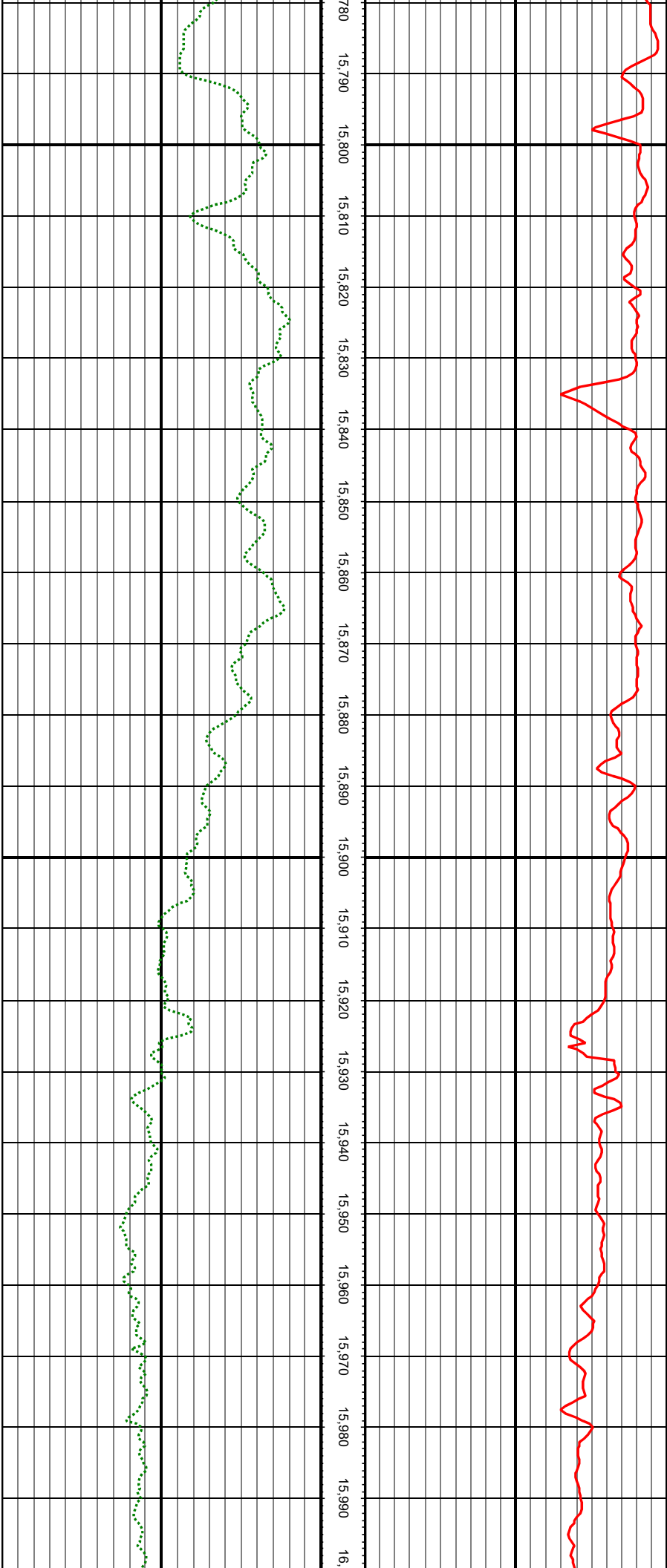
MD: 15270.00 INC: 90.07 AZ: 270.00 TVD: 6704.90 VS: 7436.96





MD: 15628.00 INC: 90.07 AZ: 269.91 TVD: 6704.90 VS: 7789.15

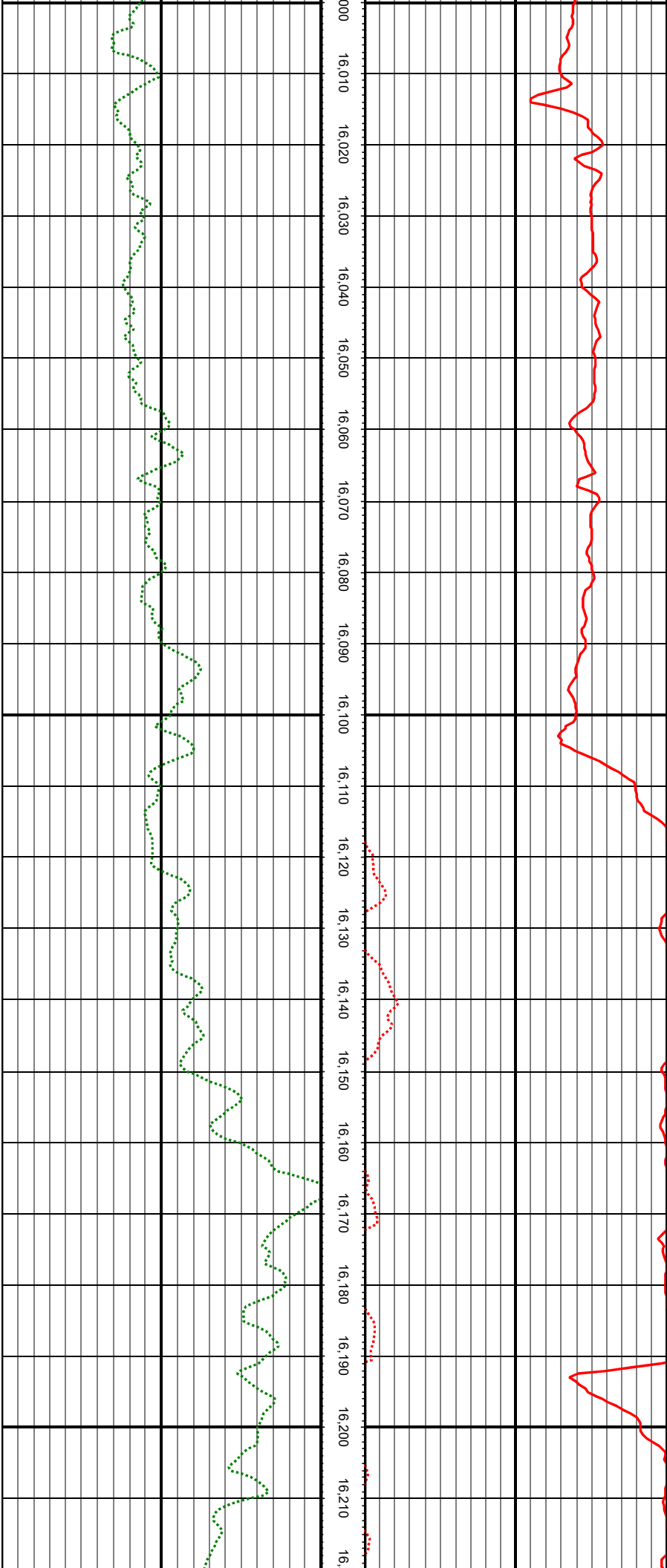
MD: 15718.00 INC: 89.89 AZ: 270.09 TVD: 6704.93 VS: 7877.71



MD: 15808.00 INC: 89.80 AZ: 269.74 TVD: 6705.18 VS: 7966.25

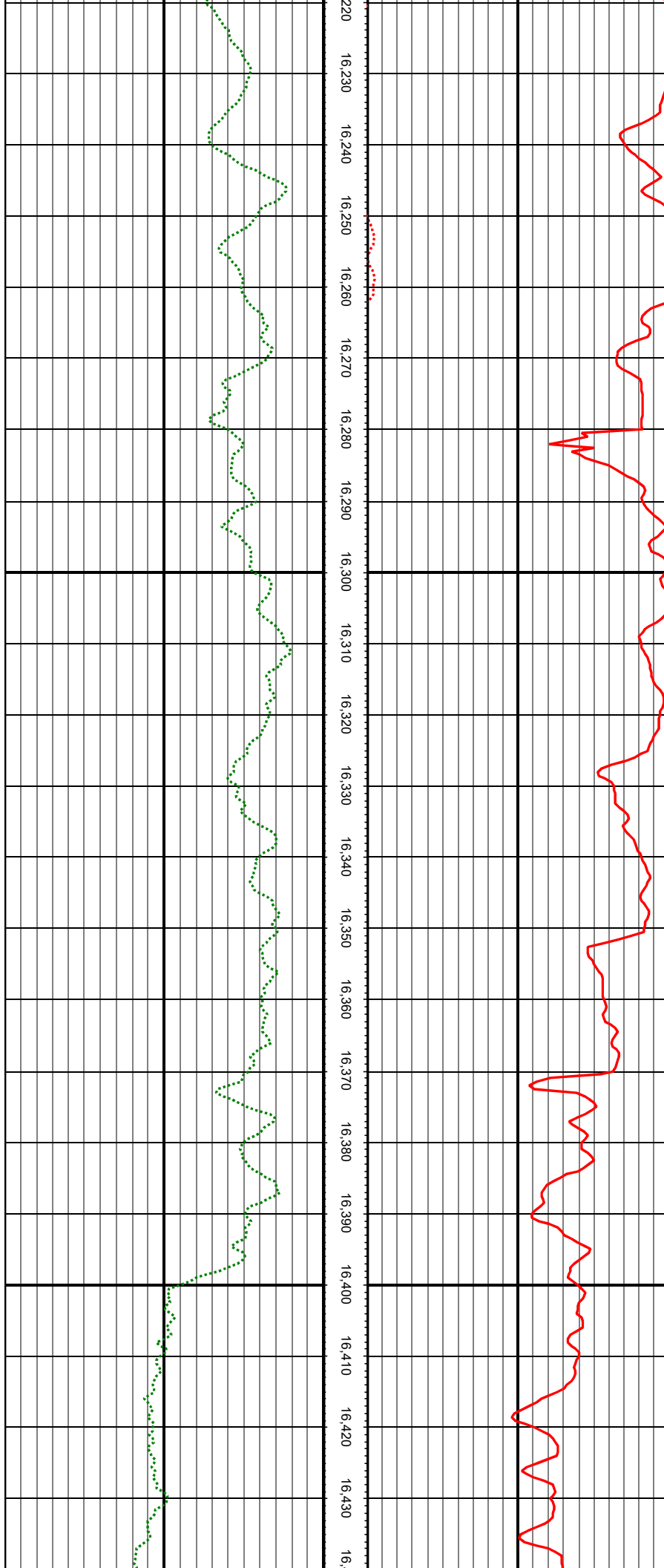
MD: 15897.00 INC: 89.98 AZ: 270.00 TVD: 6705.35 VS: 8053.79

MD: 15987.00 INC: 90.07 AZ: 270.09 TVD: 6705.31 VS: 8142.36



MD: 16077.00 INC: 89.93 AZ: 269.91 TVD: 6705.31 VS: 8230.92

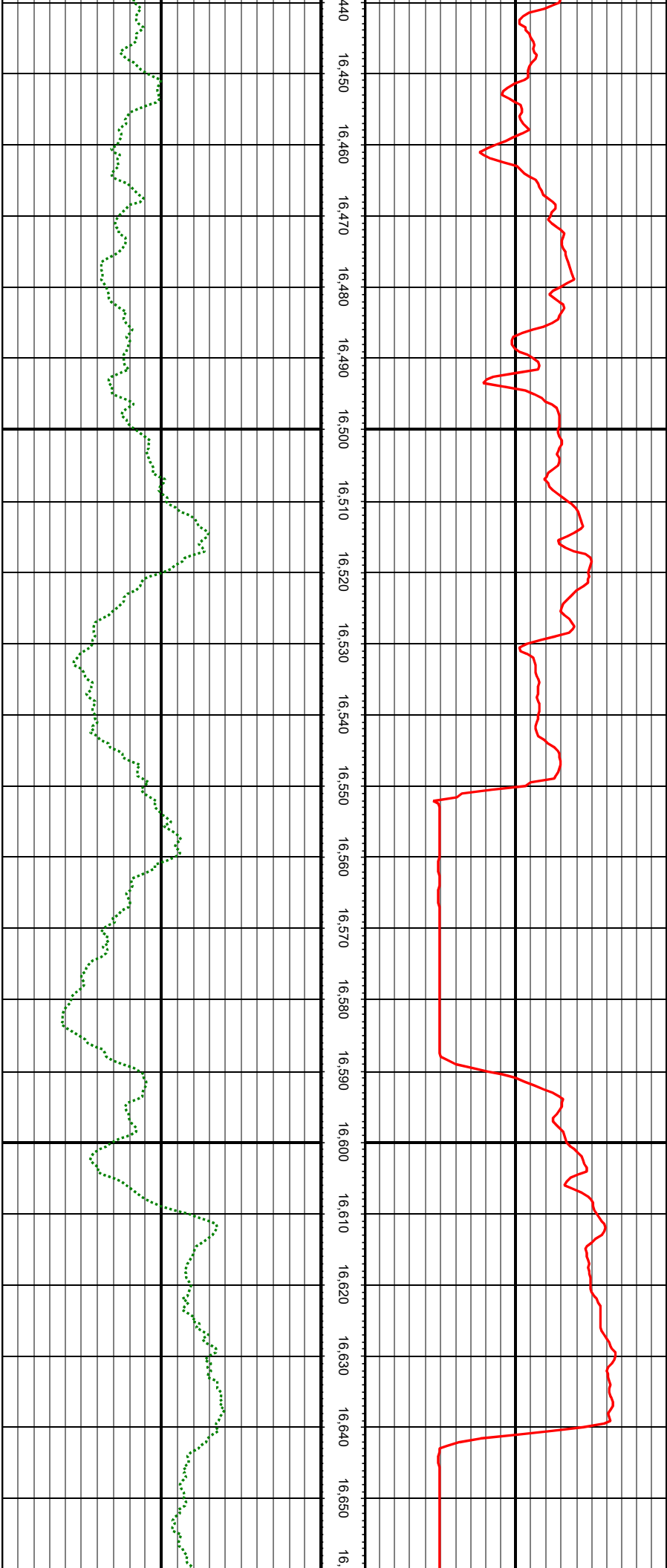
MD: 16166.00 INC: 90.02 AZ: 269.91 TVD: 6705.35 VS: 8318.48



MD: 16256.00 INC: 90.02 AZ: 270.09 TVD: 6705.32 VS: 8407.04

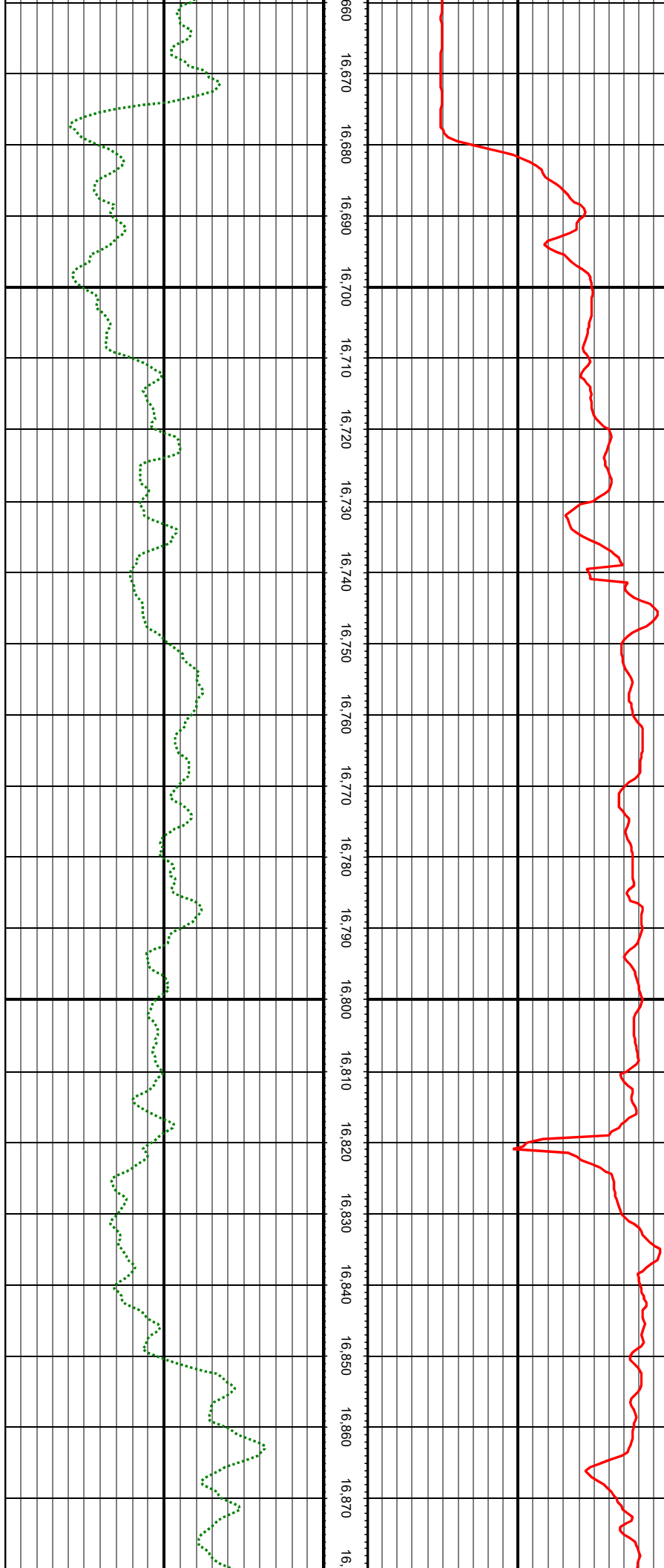
MD: 16346.00 INC: 89.98 AZ: 270.09 TVD: 6705.32 VS: 8495.62

MD: 16435.00 INC: 90.02 AZ: 270.27 TVD: 6705.32 VS: 8583.25



MD: 16525.00 INC: 90.07 AZ: 270.27 TVD: 6705.25 VS: 8671.88

MD: 16615.00 INC: 90.64 AZ: 270.27 TVD: 6704.69 VS: 8760.52



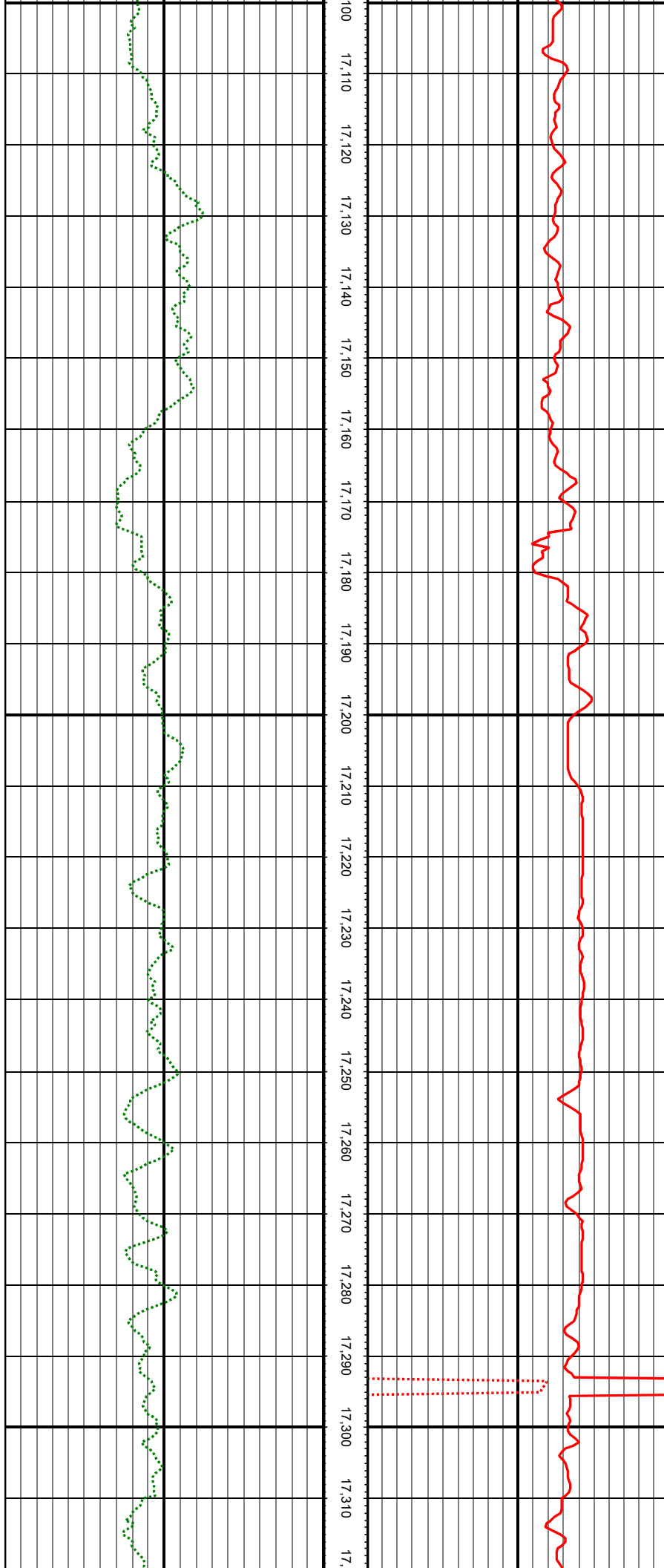
MD: 16704.00 INC: 90.24 AZ: 268.24 TVD: 6704.00 VS: 8847.87

MD: 16794.00 INC: 90.02 AZ: 268.33 TVD: 6703.80 VS: 8935.91

MD: 16884.00 INC: 89.98 AZ: 268.07 TVD: 6703.80 VS: 9023.93

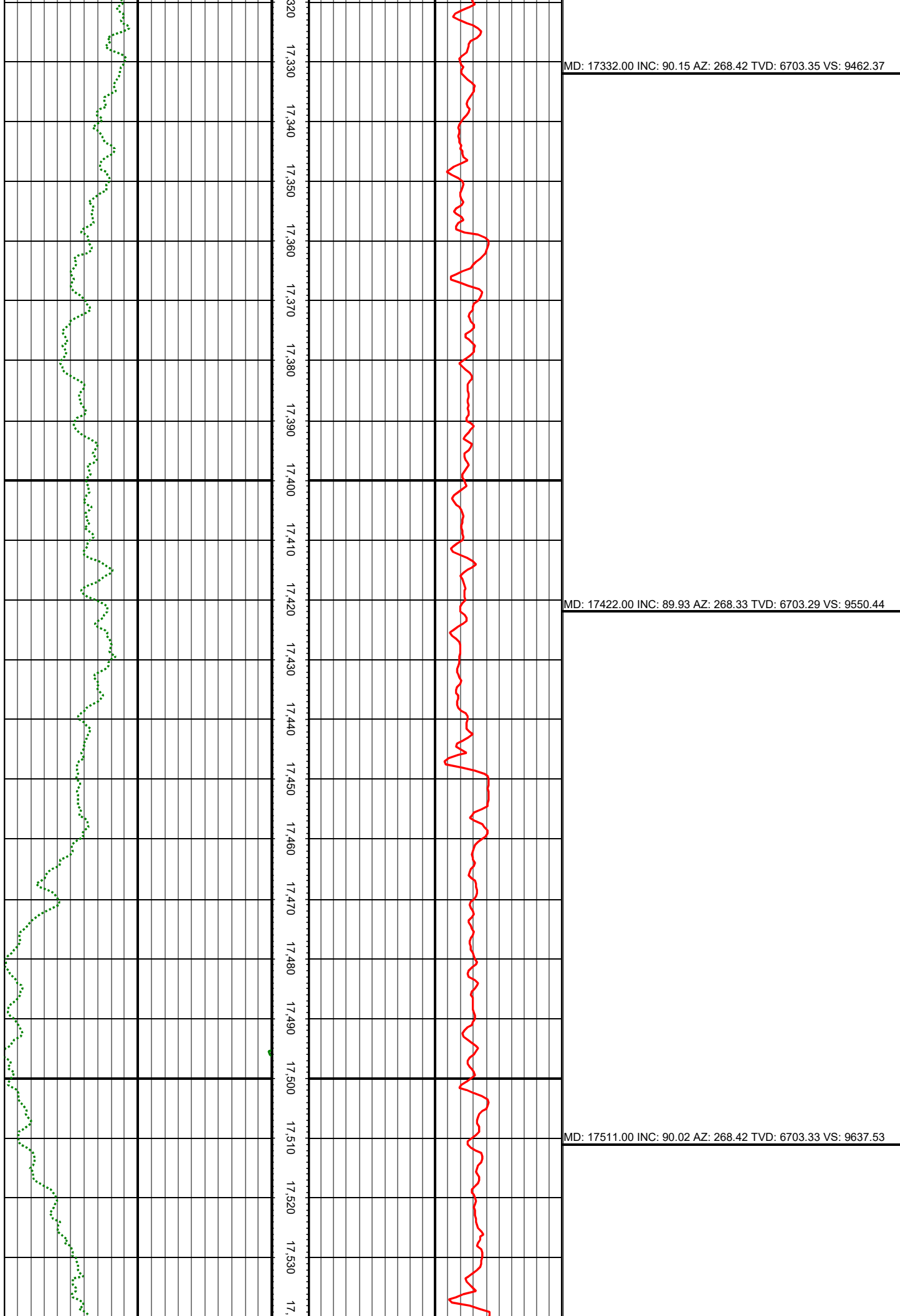
MD: 16973.00 INC: 90.02 AZ: 268.51 TVD: 6703.80 VS: 9110.99

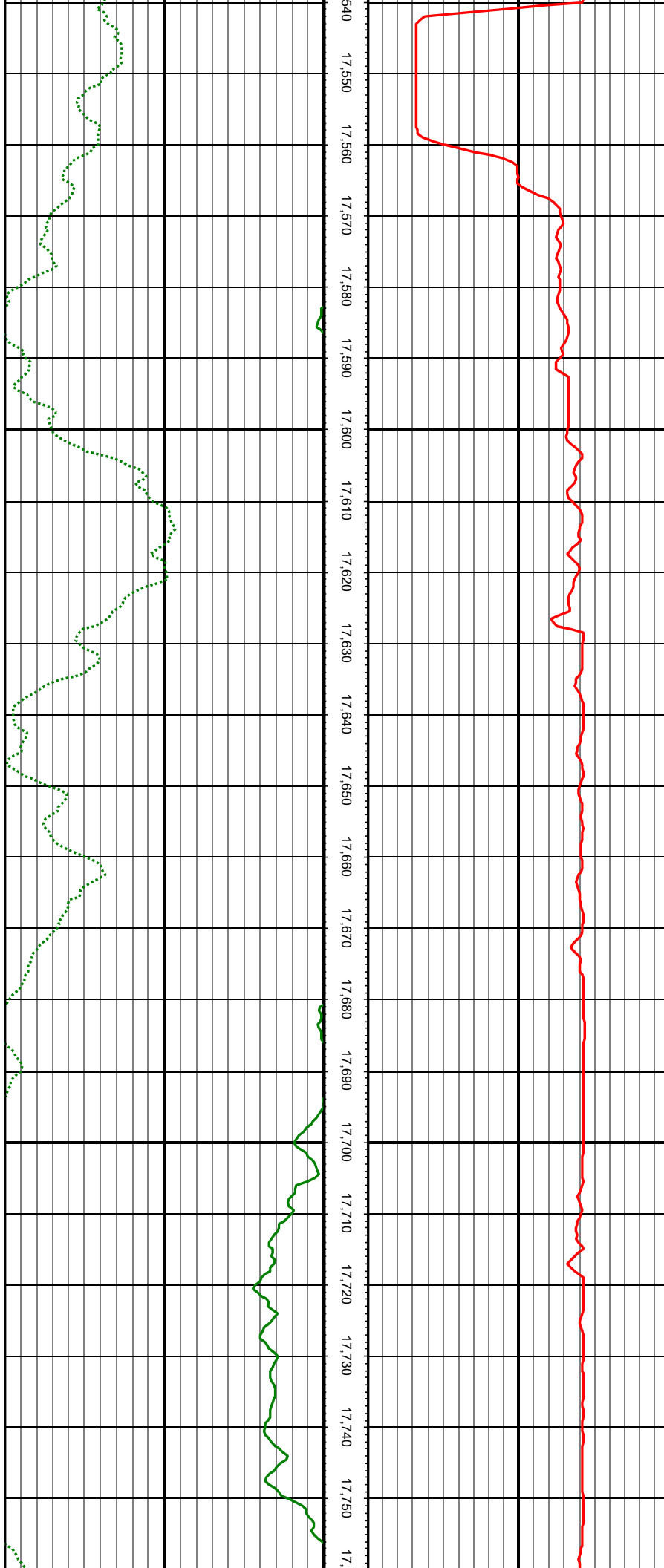
MD: 17063.00 INC: 89.98 AZ: 268.42 TVD: 6703.80 VS: 9199.09



MD: 17153.00 INC: 90.07 AZ: 268.42 TVD: 6703.76 VS: 9287.18

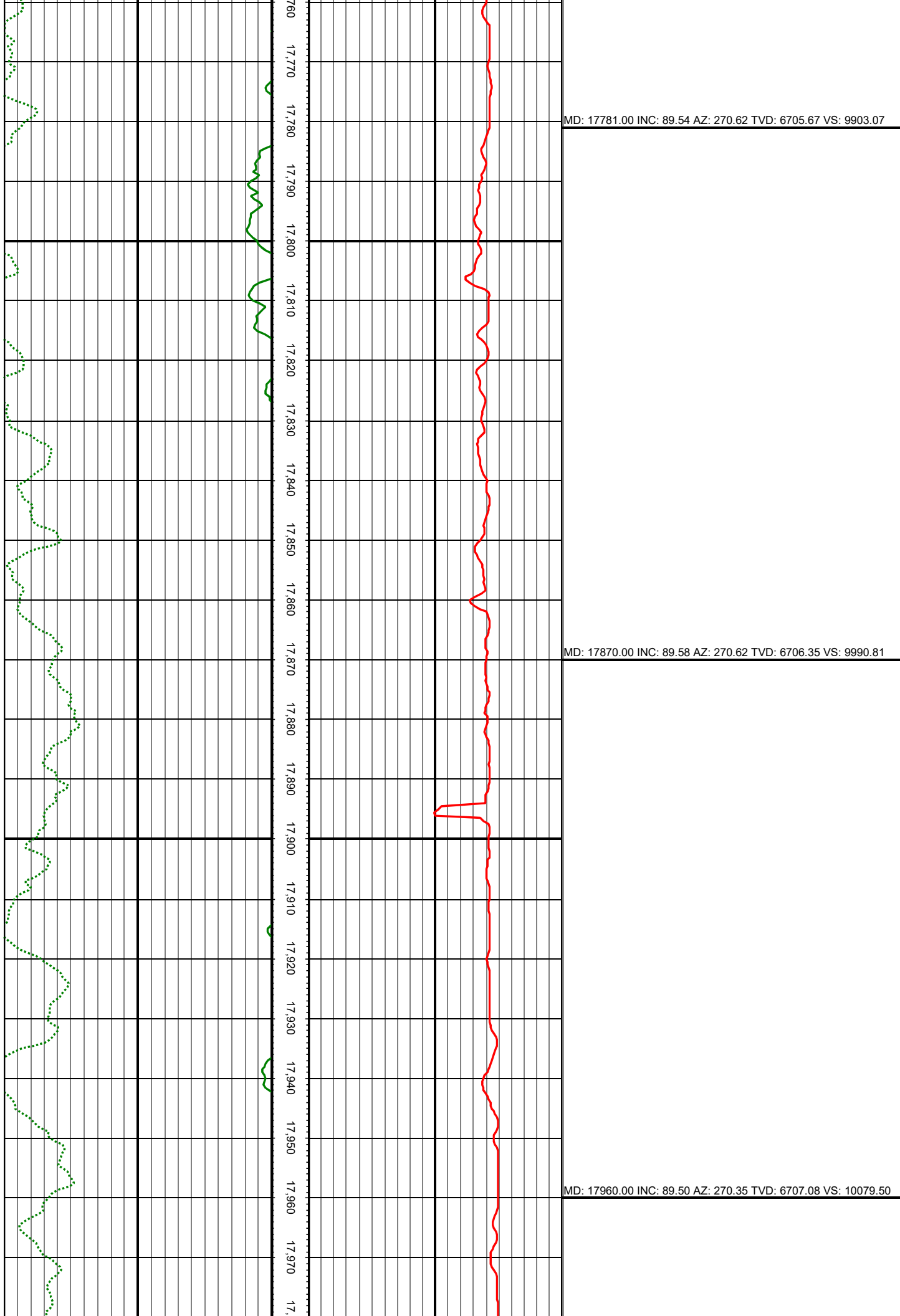
MD: 17242.00 INC: 90.15 AZ: 268.42 TVD: 6703.59 VS: 9374.28

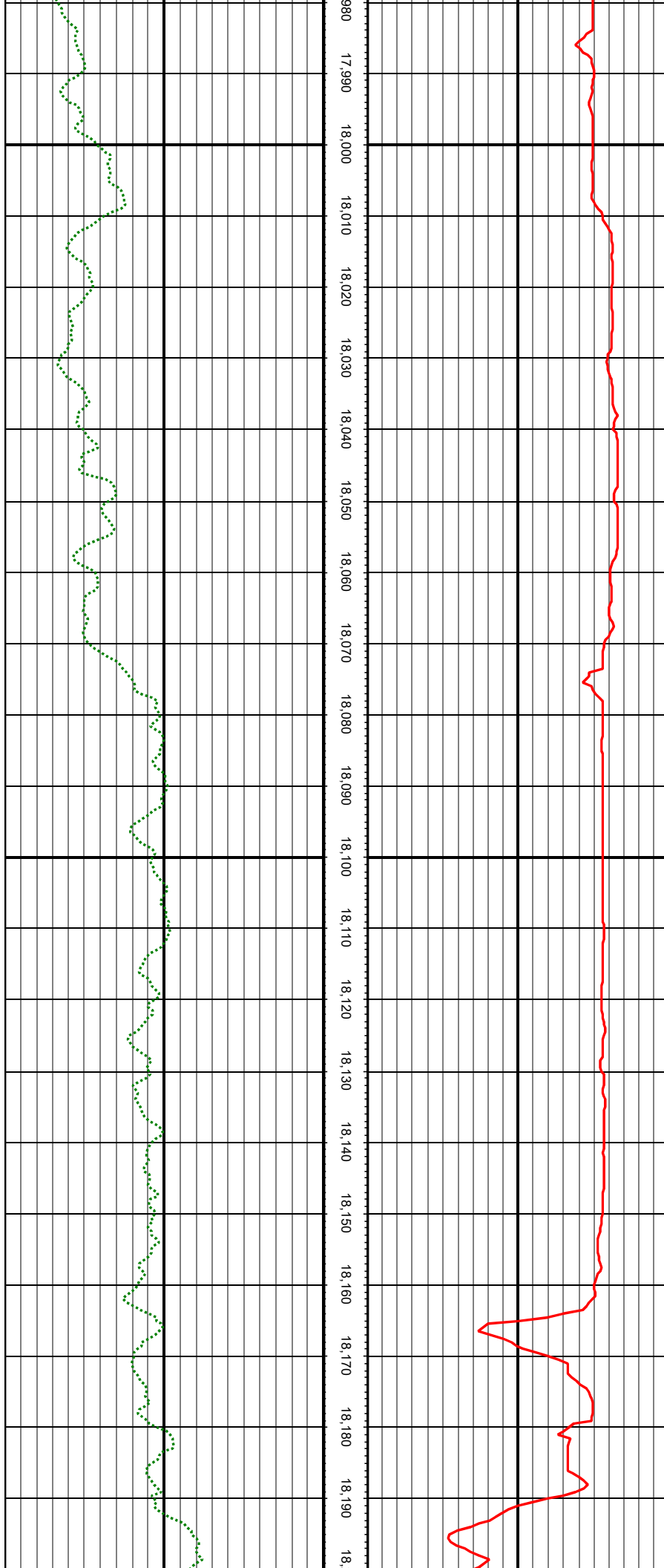




MD: 17601.00 INC: 89.10 AZ: 269.39 TVD: 6704.02 VS: 9725.77

MD: 17691.00 INC: 89.63 AZ: 270.71 TVD: 6705.02 VS: 9814.33

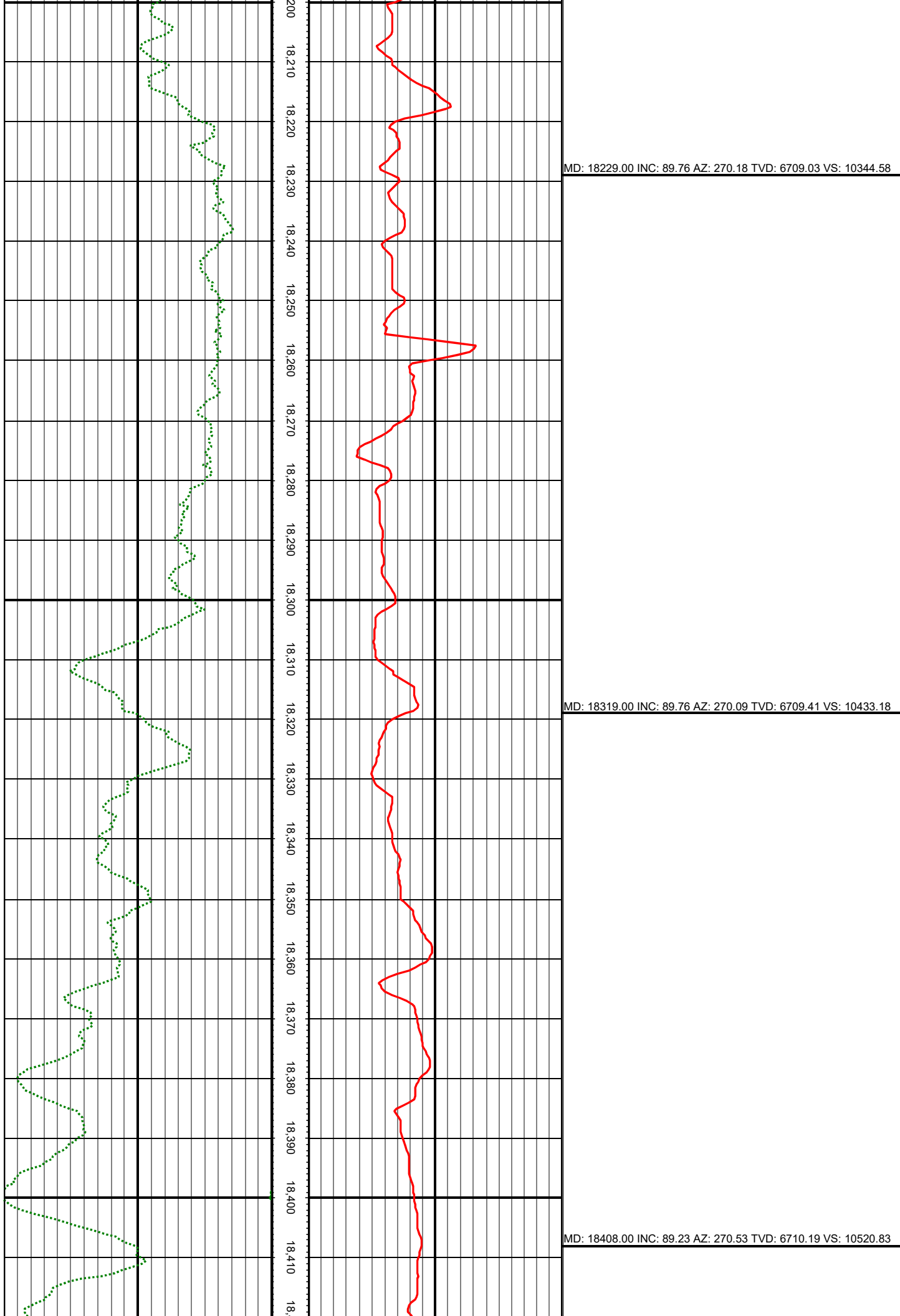


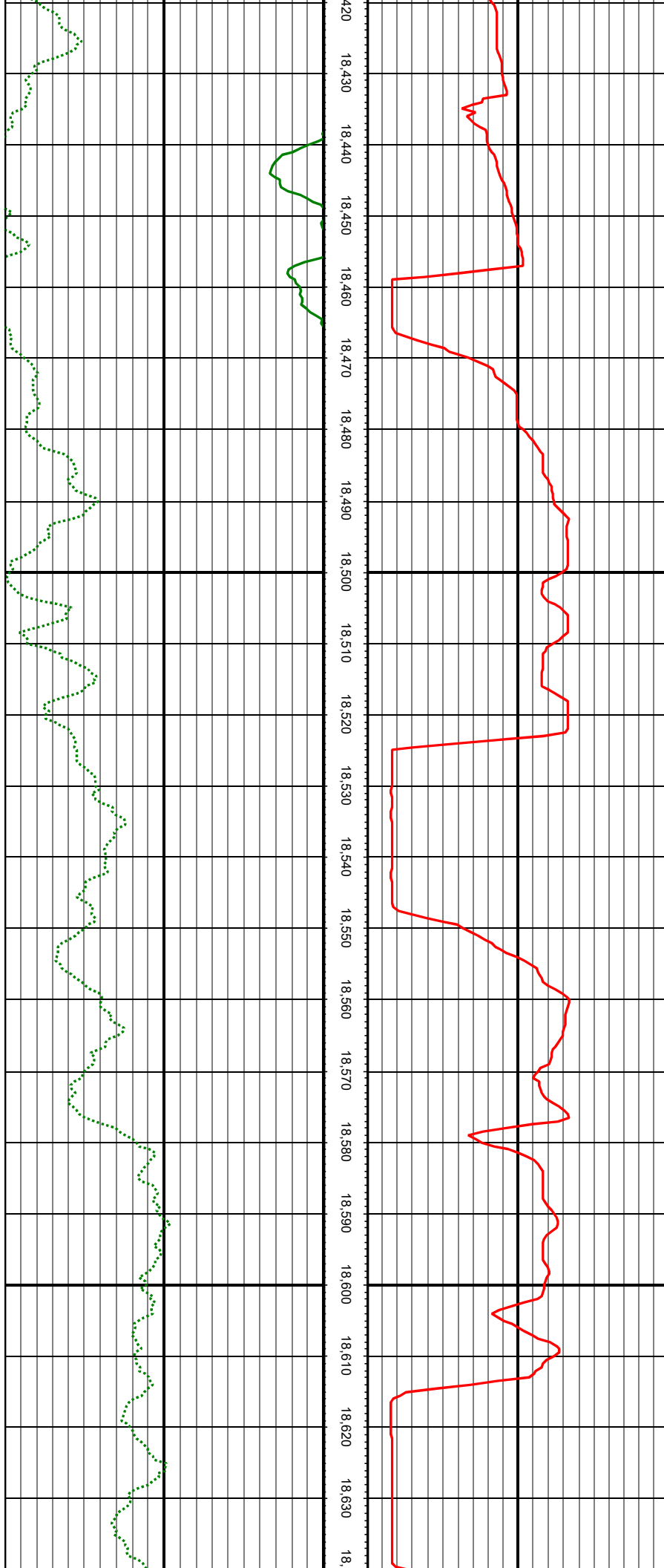


18,190 18,180 18,170 18,160 18,150 18,140 18,130 18,120 18,110 18,100 18,090 18,080 18,070 18,060 18,050 18,040 18,030 18,020 18,010 18,000 17,990 17,980

MD: 18049.00 INC: 89.54 AZ: 270.44 TVD: 6707.82 VS: 10167.18

MD: 18139.00 INC: 89.58 AZ: 270.71 TVD: 6708.51 VS: 10255.90





MD: 18498.00 INC: 90.20 AZ: 271.41 TVD: 6710.64 VS: 10609.65

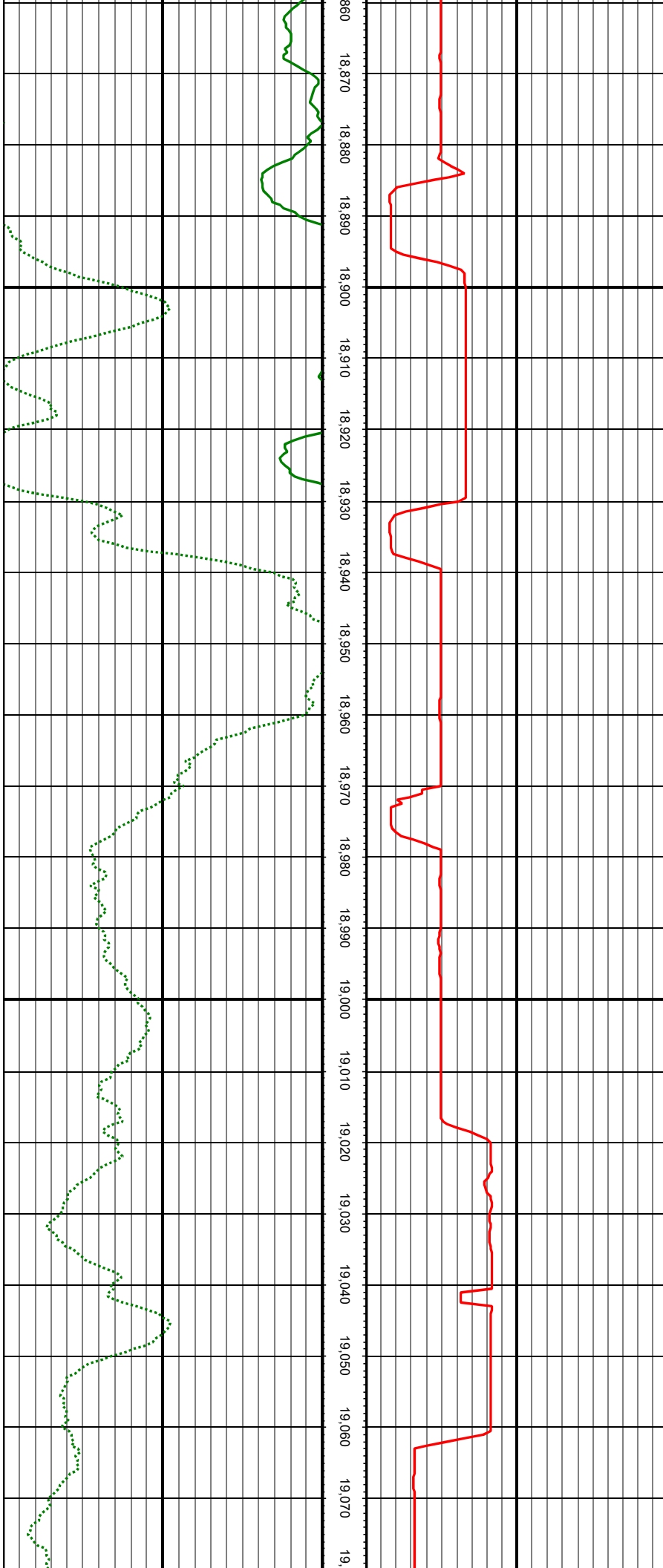
MD: 18588.00 INC: 91.91 AZ: 271.94 TVD: 6708.98 VS: 10698.62



MD: 18677.00 INC: 94.15 AZ: 272.81 TVD: 6704.28 VS: 10786.65

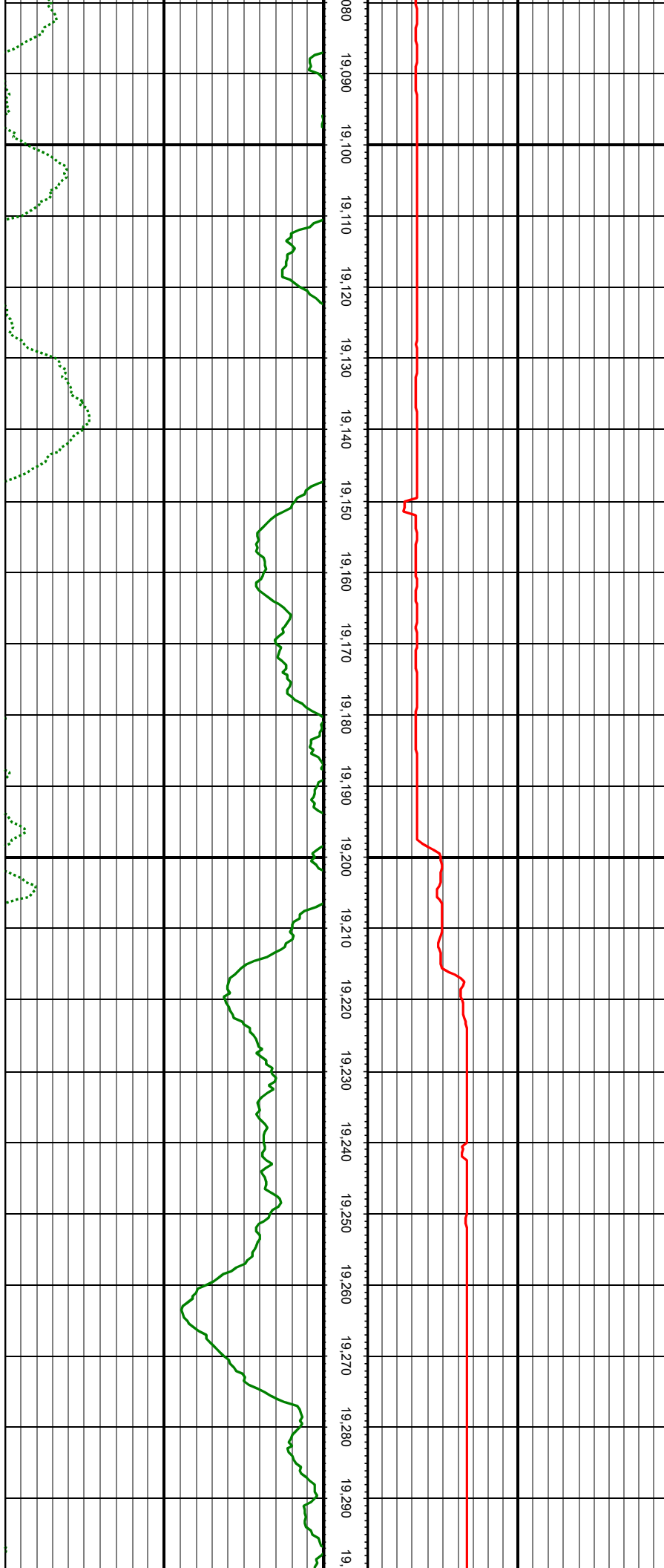
MD: 18767.00 INC: 96.40 AZ: 273.61 TVD: 6696.01 VS: 10875.59

MD: 18856.00 INC: 98.59 AZ: 274.05 TVD: 6684.40 VS: 10963.27



MD: 18946.00 INC: 100.40 AZ: 273.96 TVD: 6669.55 VS: 11051.50

MD: 19036.00 INC: 102.55 AZ: 274.31 TVD: 6651.65 VS: 11139.19



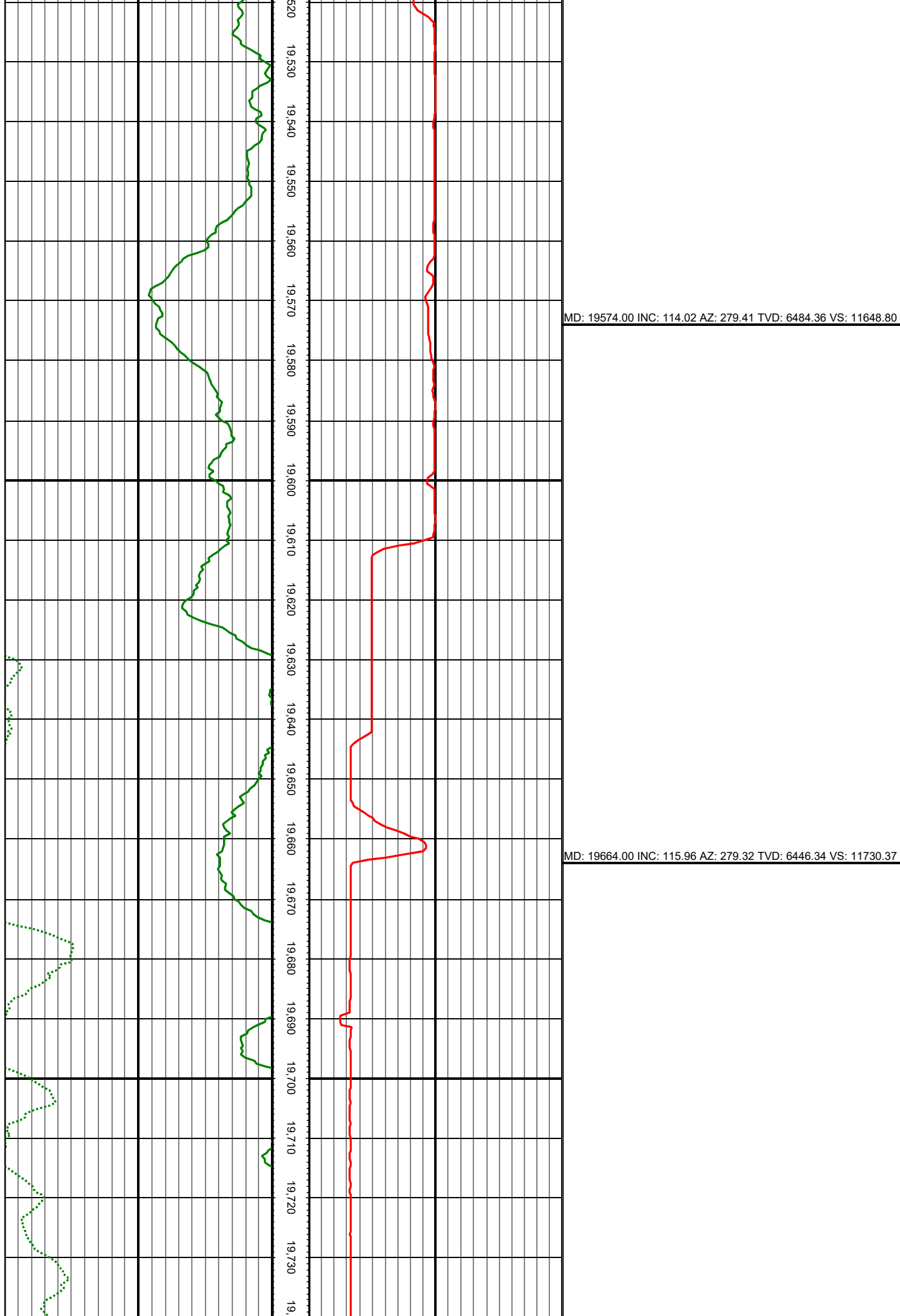
MD: 19126.00 INC: 104.53 AZ: 275.63 TVD: 6630.58 VS: 11226.31

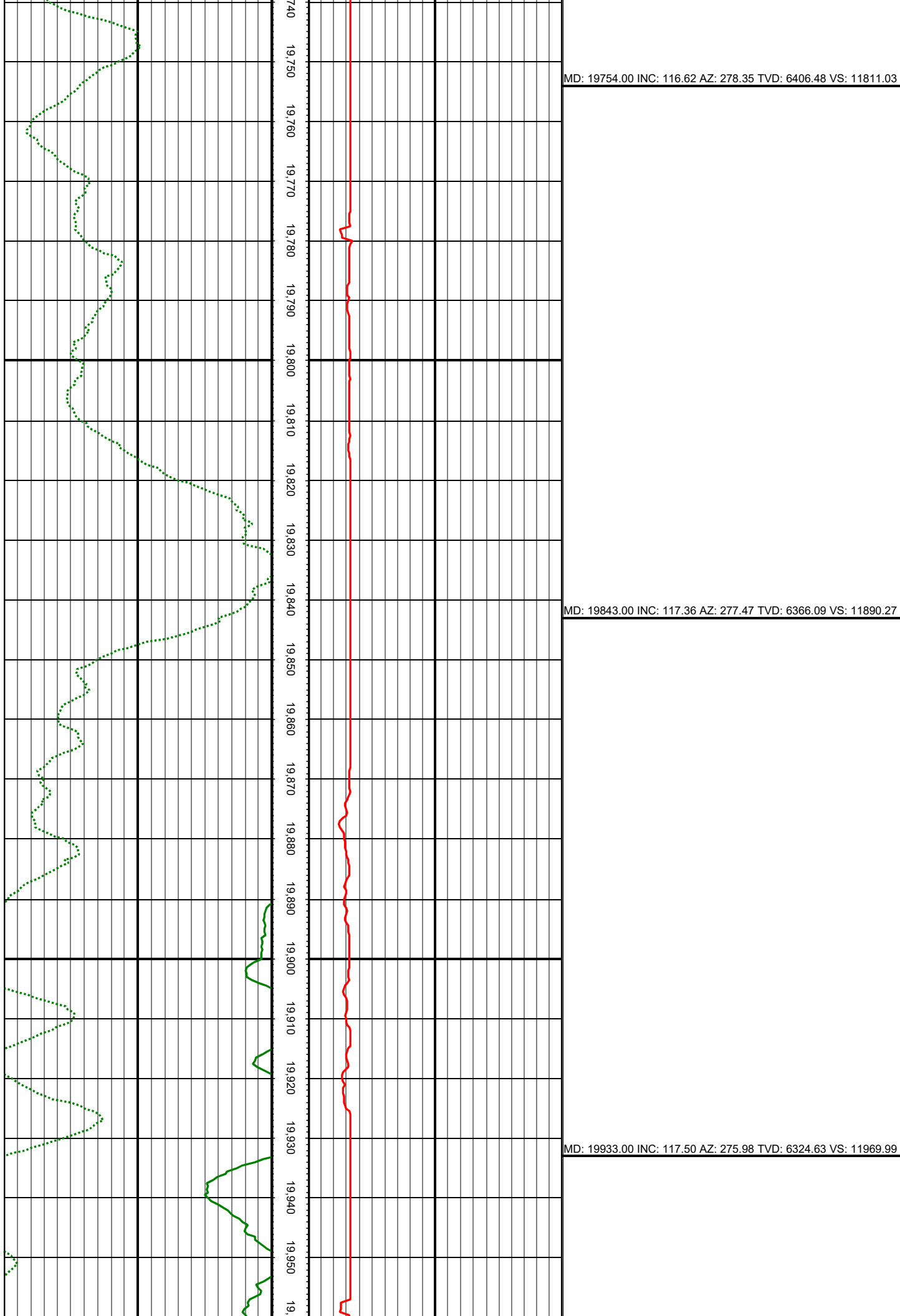
MD: 19215.00 INC: 106.37 AZ: 276.77 TVD: 6606.87 VS: 11311.87

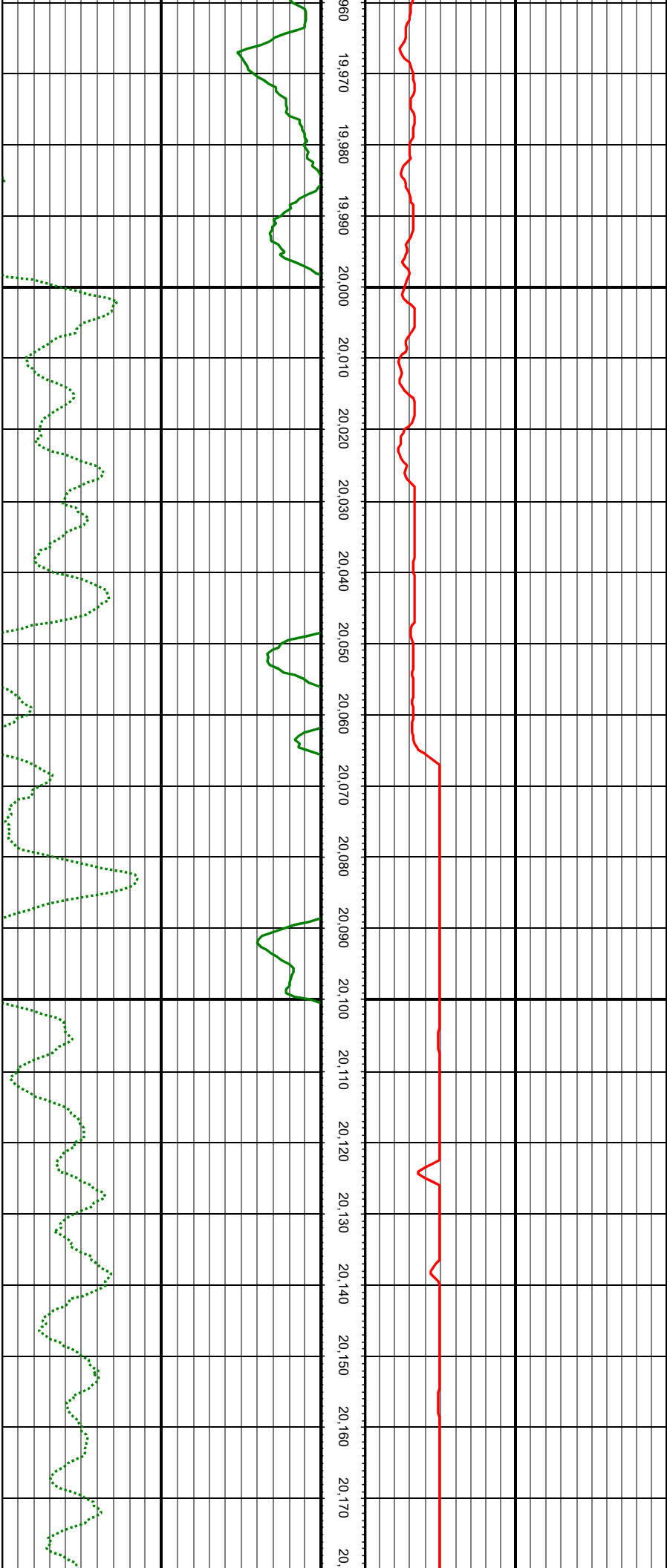
MD: 19305.00 INC: 107.69 AZ: 277.65 TVD: 6580.51 VS: 11397.80

MD: 19395.00 INC: 109.85 AZ: 278.88 TVD: 6551.55 VS: 11482.96

MD: 19485.00 INC: 112.18 AZ: 279.58 TVD: 6519.28 VS: 11566.95







MD: 20023.00 INC: 118.11 AZ: 274.66 TVD: 6282.64 VS: 12049.30

MD: 20112.00 INC: 118.42 AZ: 273.43 TVD: 6240.50 VS: 12127.23

