



Premier Directional Drilling
12941 North Freeway Suite 400
Houston, Texas 77060
PH: #281-673-4000

Whisp Rock 3N-25HZ
Scale 5":100' - MD
1/3/2016 6:39 PM

Oper. Company: Anadarko Petroleum Corporation

State: Colorado

Well: Whisp Rock 3N-25HZ

County: Weld

Field: Whattenberg

Country: US

Rig: Precision 462

Location: Wilson Ranch 8-26HZ Pad

Well ID: 051234130000

Start Date: 01/02/2016 00:21:19

Job Number: R15418

End Date: 01/03/2016 18:32:40

Notes: LWD Real Time Data Log
Gamma Correction Determined by Pipe ID & OD, Mud Weight & Bit Size

Latitude: 40.286223

Elev KB: 5012'

Longitude: -104.962903

Elev DF: 5012'

Elev GL: 4992'

Notes: Datum: NAD1983 Map Zone: 13N (108 W to 102 W) Total Correction: 8.41° Grid Convergence: 0.02° (True North)

Operator 1: Justin Wallace

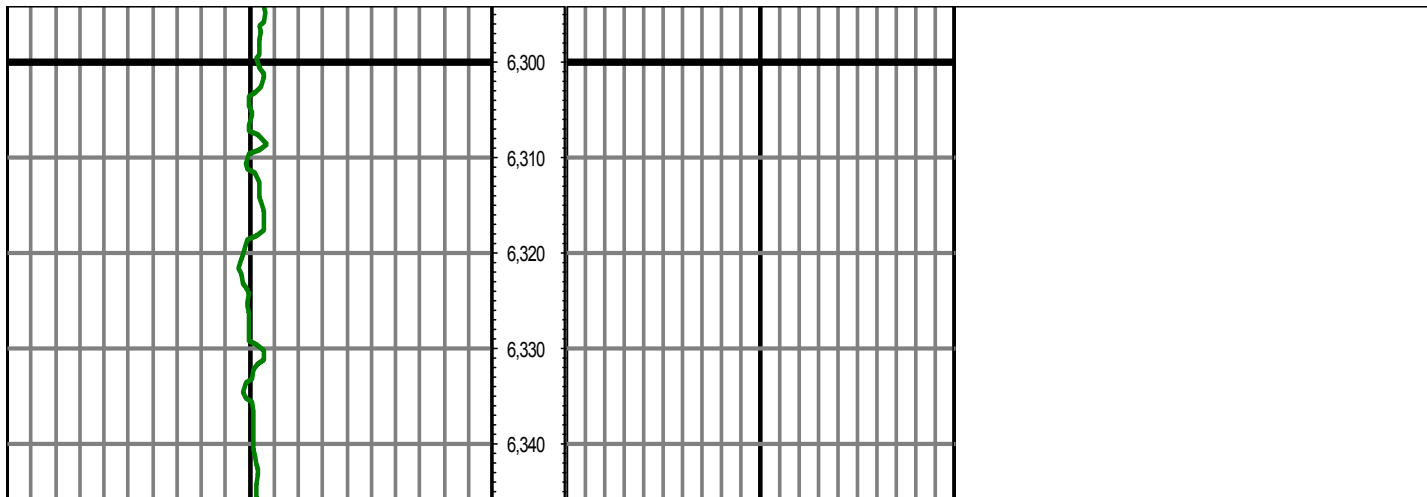
Operator 2: David Clancy

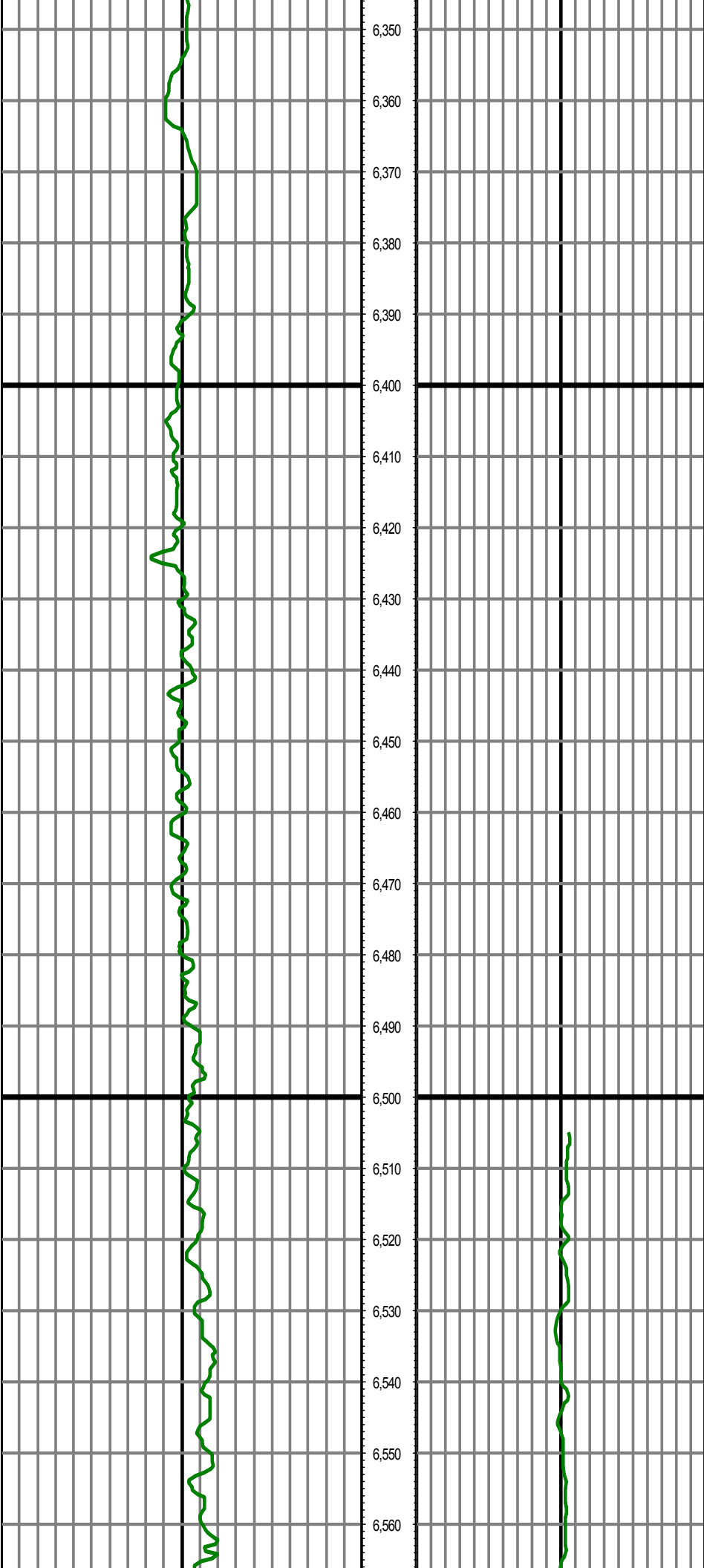
Notes: Smoothing: 2 Gap Fill: 10 Tool Type: EVO One Calculation Method: Minimum Curvature

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	EG0109HN-R				
Bit Size	8 1/2				
Cal Factor	2.86				
Survey Offset:	73.00				
Gamma Offset	68.50				
Resistivity Offset	0.00				
Start Depth	1830.00				
StartDate	1/2/2016				
StartTime	01:19				
EndDepth	0.00				
EndDate	1/3/2016				
EndTime	18:32				
Hole Data			Casing Data		
Size	From	To	Size	From	To
8 1/2	1830.00	13583.00	9 5/8	0.00	1830.00

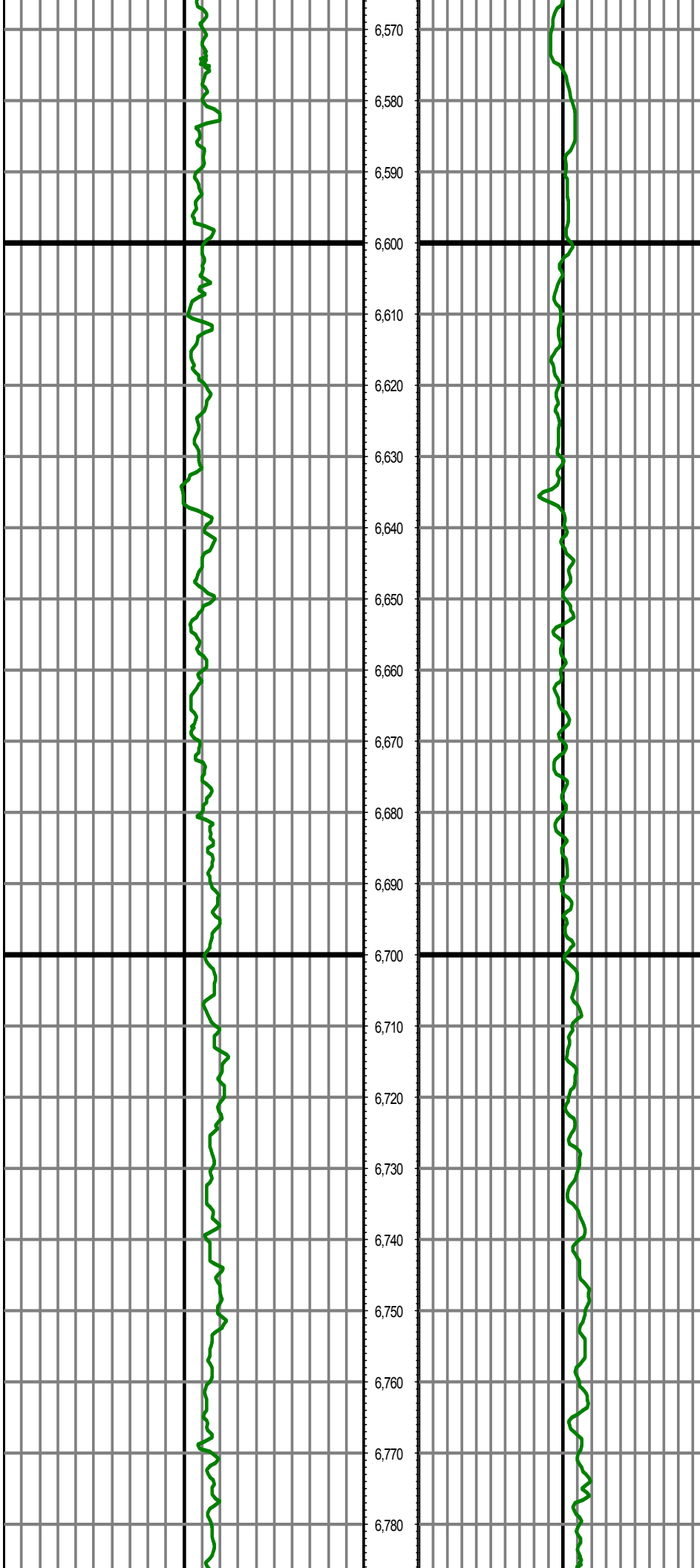
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost 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) on TVD 200.00 MD 0.00 GR(API) on MD 200.00 Surveys (MD/INC/AZ/TVD/VS)
200.00 2 400.00 FT 200.00 2 400.00



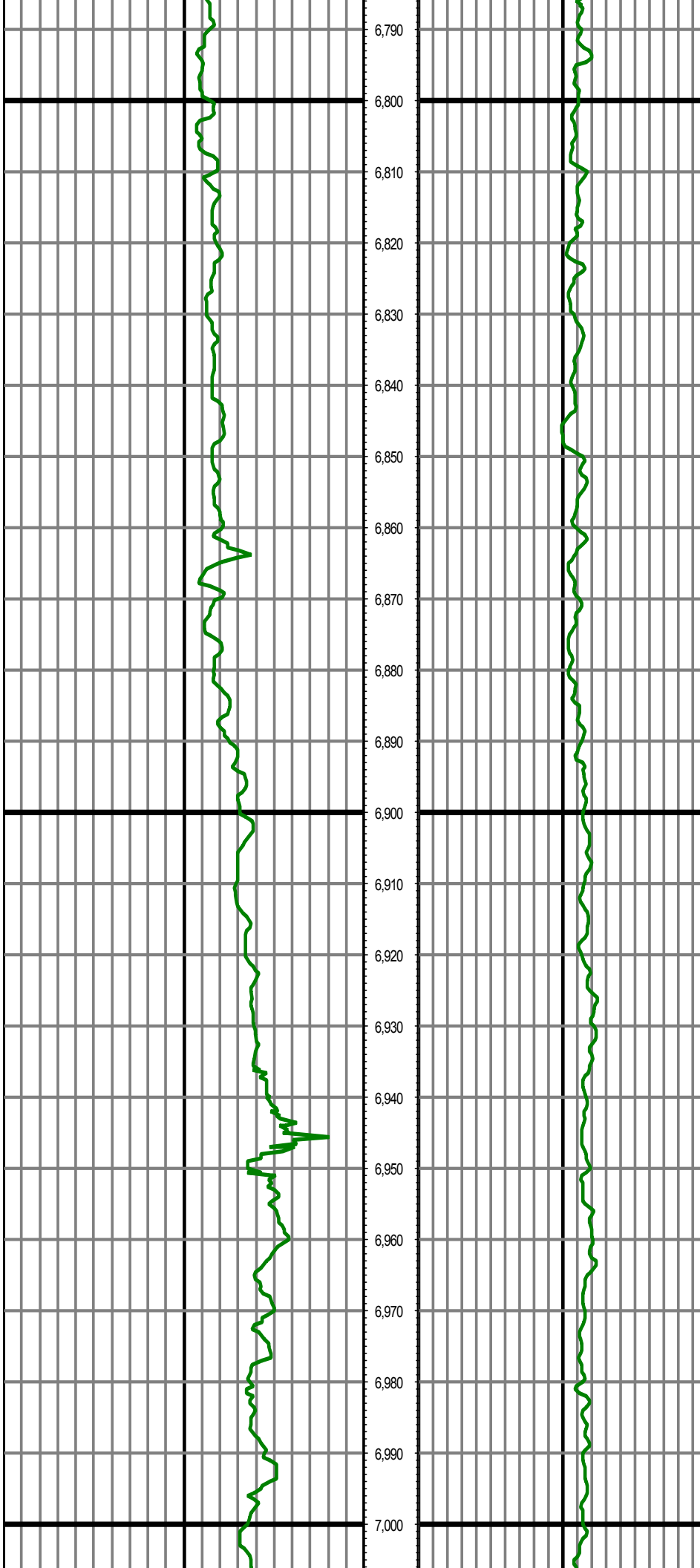


MD: 6494.00 INC: 0.30 AZ: 37.50 TVD: 6283.36 VS: -1103.45



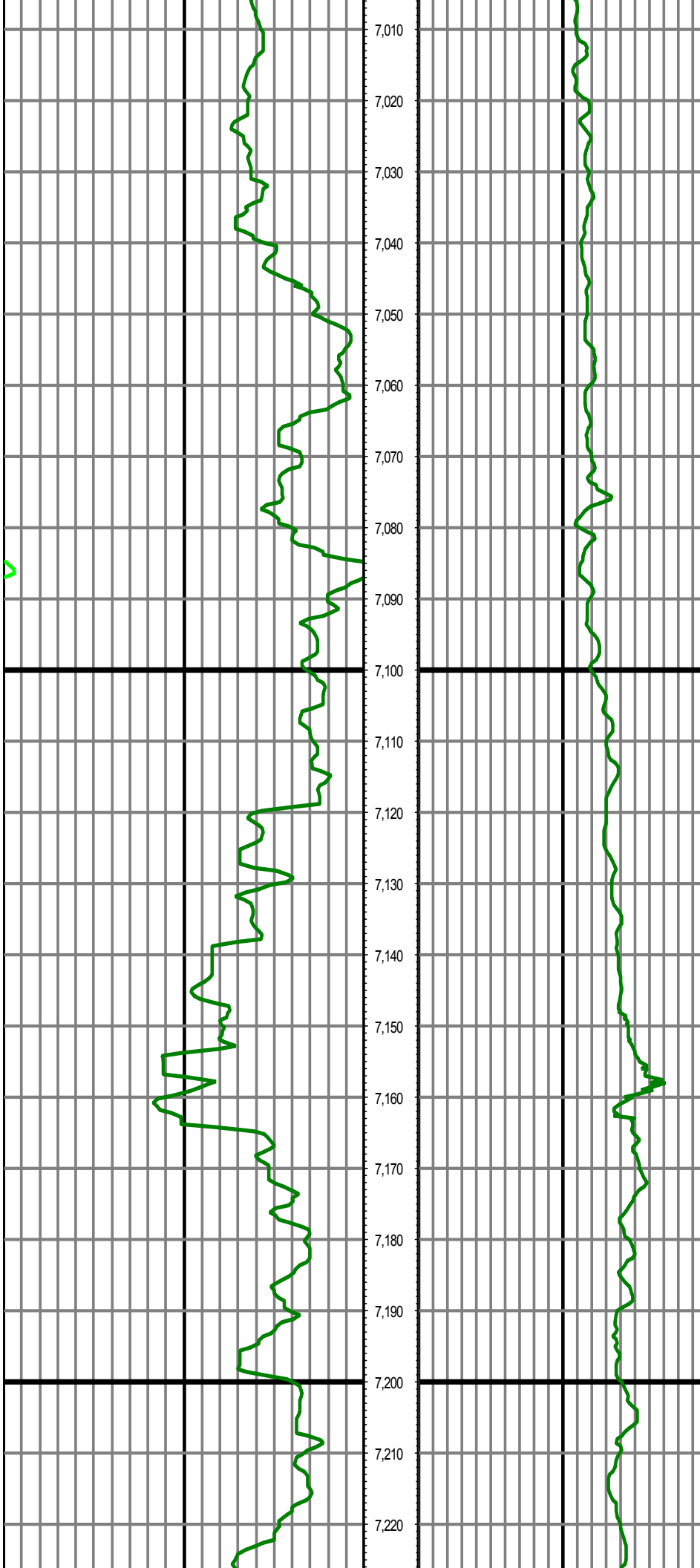
MD: 6684.00 INC: 0.85 AZ: 27.14 TVD: 6473.35 VS: -1102.53

MD: 6779.00 INC: 10.53 AZ: 90.66 TVD: 6567.79 VS: -1093.51



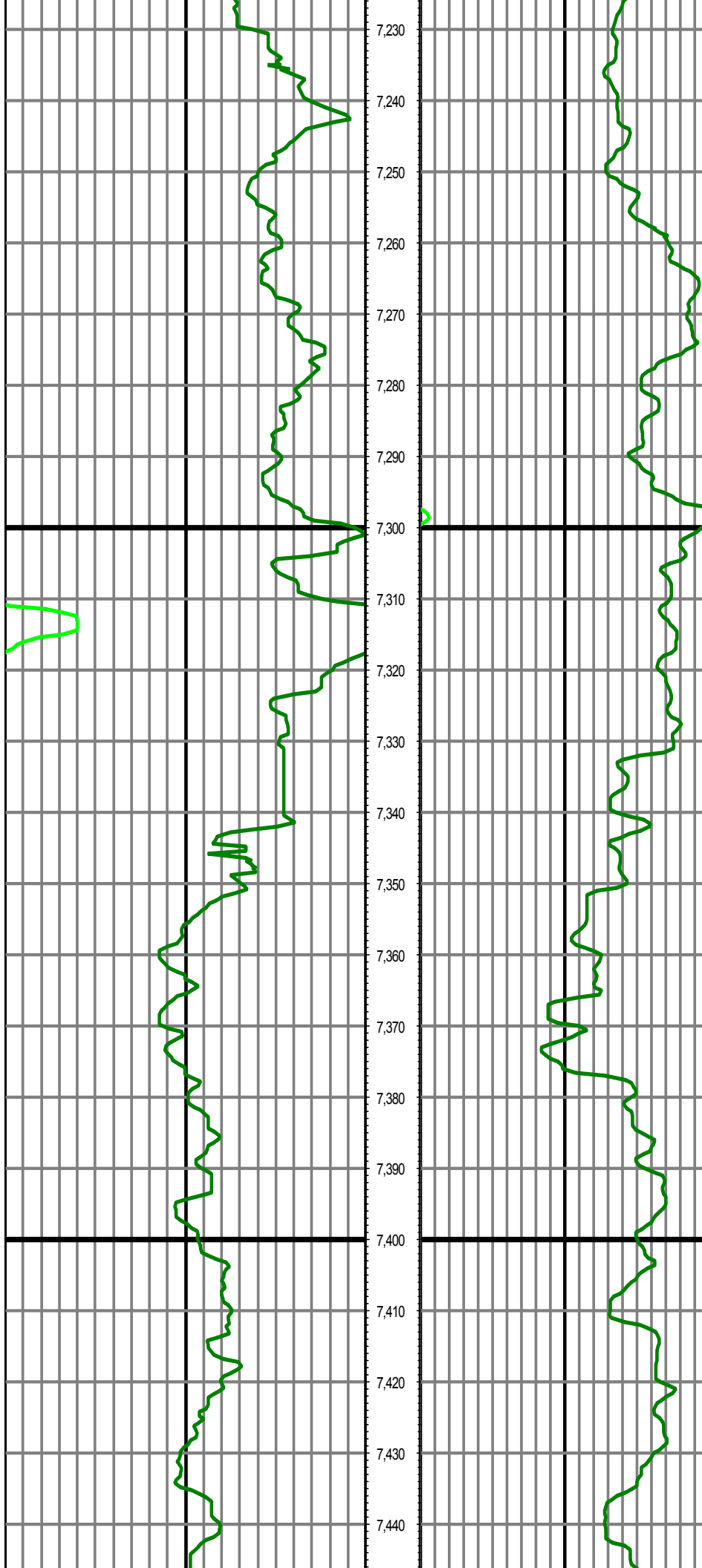
MD: 6874.00 INC: 18.30 AZ: 83.29 TVD: 6659.74 VS: -1070.00

MD: 6969.00 INC: 22.42 AZ: 88.26 TVD: 6748.79 VS: -1037.10



MD: 7064.00 INC: 28.62 AZ: 93.36 TVD: 6834.49 VS: -996.23

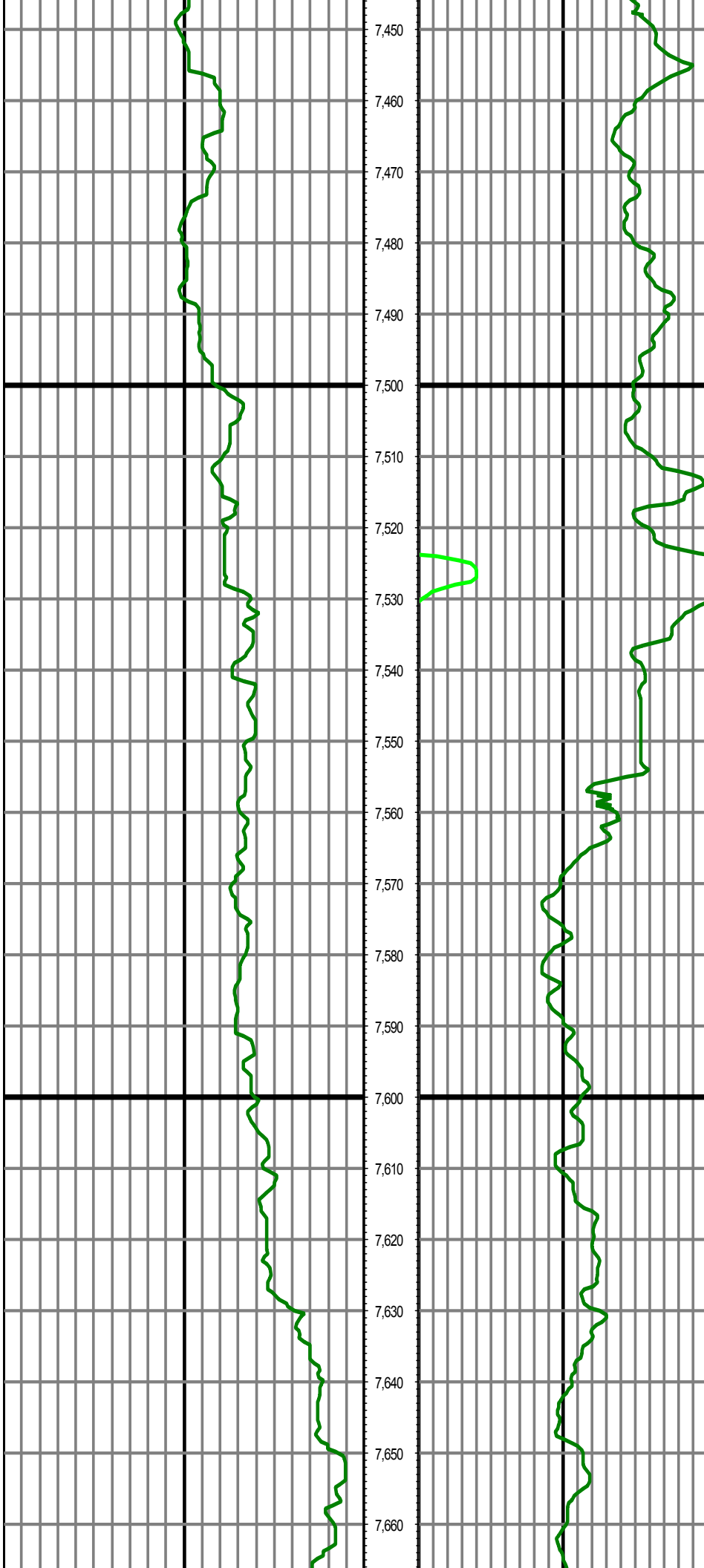
MD: 7157.00 INC: 38.79 AZ: 93.73 TVD: 6911.75 VS: -944.75



MD: 7252.00 INC: 48.83 AZ: 91.66 TVD: 6980.23 VS: -879.11

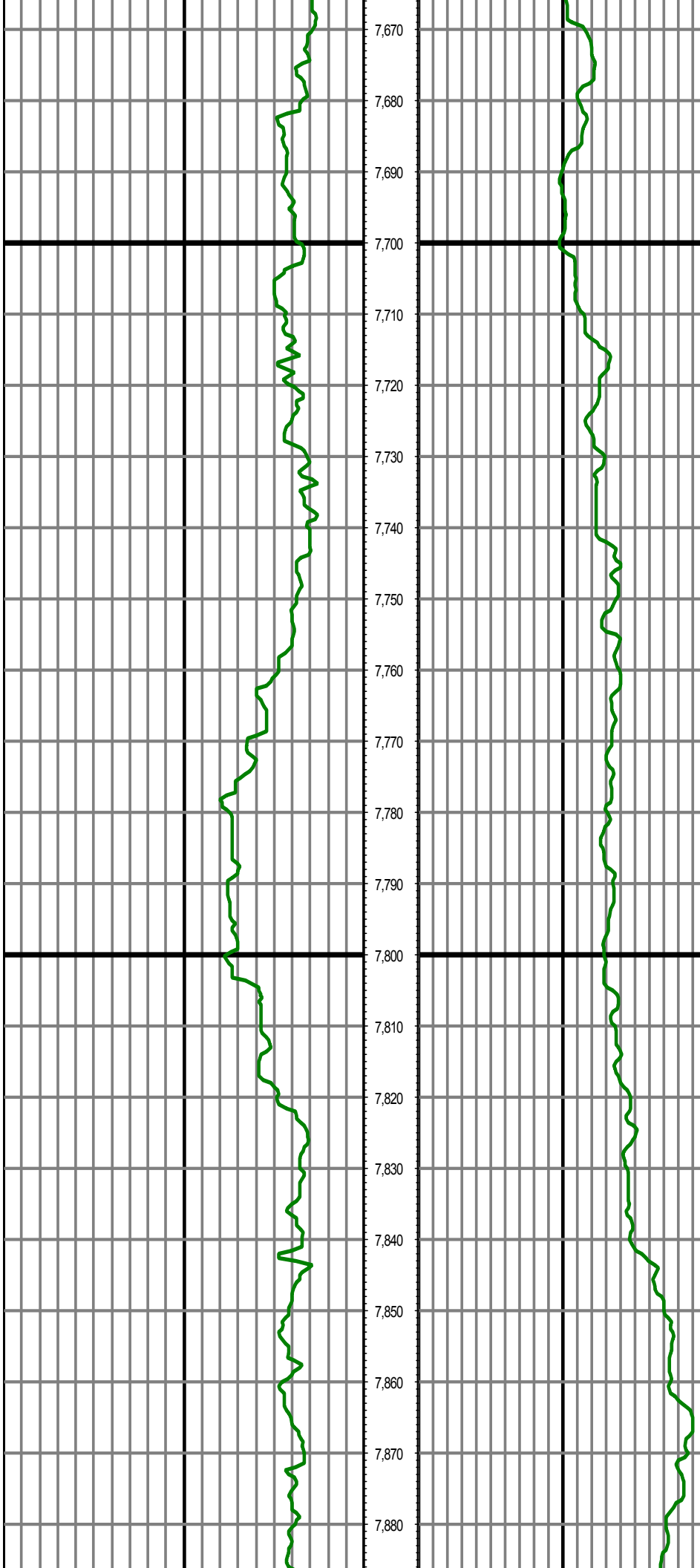
MD: 7347.00 INC: 56.62 AZ: 90.88 TVD: 7037.72 VS: -803.58

MD: 7443.00 INC: 65.22 AZ: 90.02 TVD: 7084.33 VS: -719.76



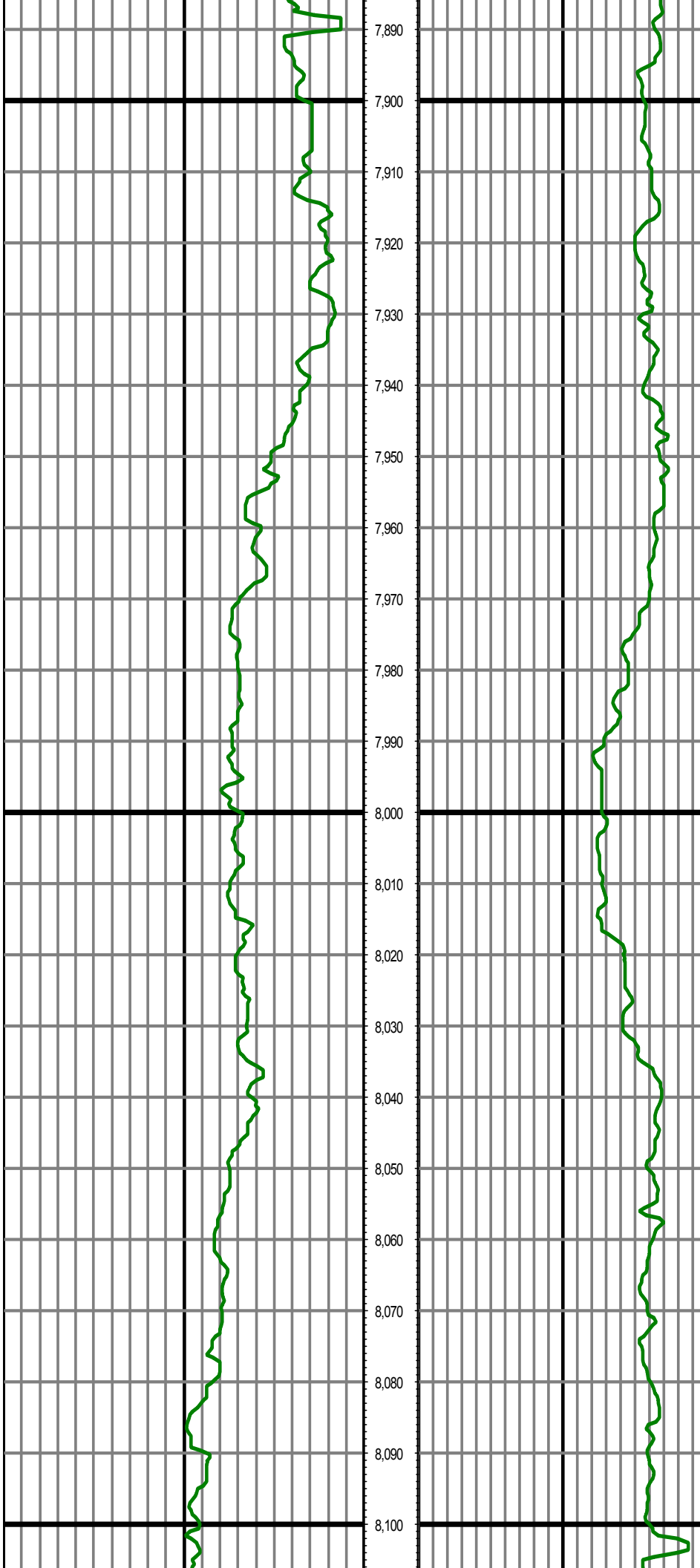
MD: 7538.00 INC: 72.81 AZ: 90.21 TVD: 7118.33 VS: -631.13

MD: 7633.00 INC: 83.05 AZ: 90.32 TVD: 7138.17 VS: -538.36



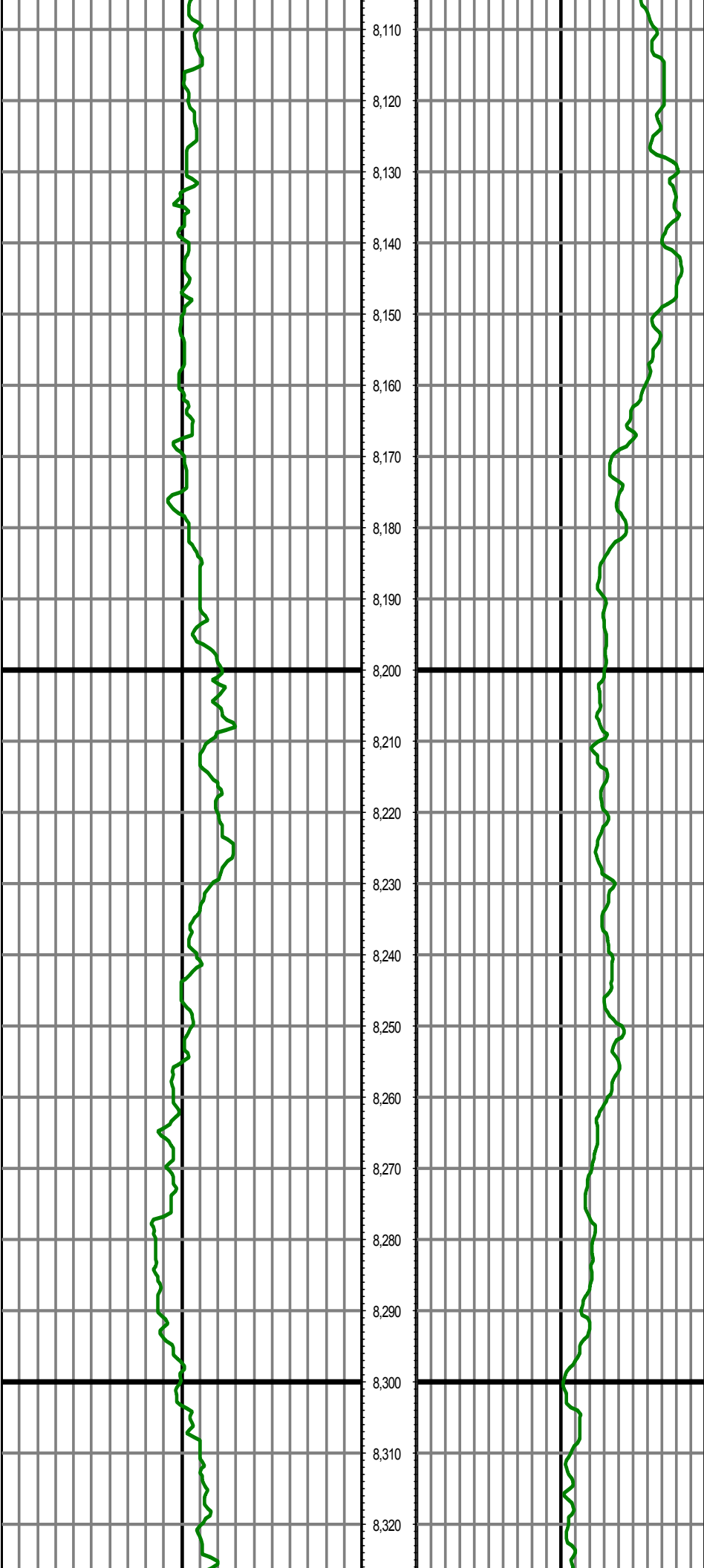
MD: 7729.00 INC: 87.73 AZ: 90.70 TVD: 7145.88 VS: -442.70

MD: 7824.00 INC: 87.58 AZ: 90.30 TVD: 7149.77 VS: -347.78



MD: 7919.00 INC: 87.43 AZ: 90.13 TVD: 7153.91 VS: -252.87

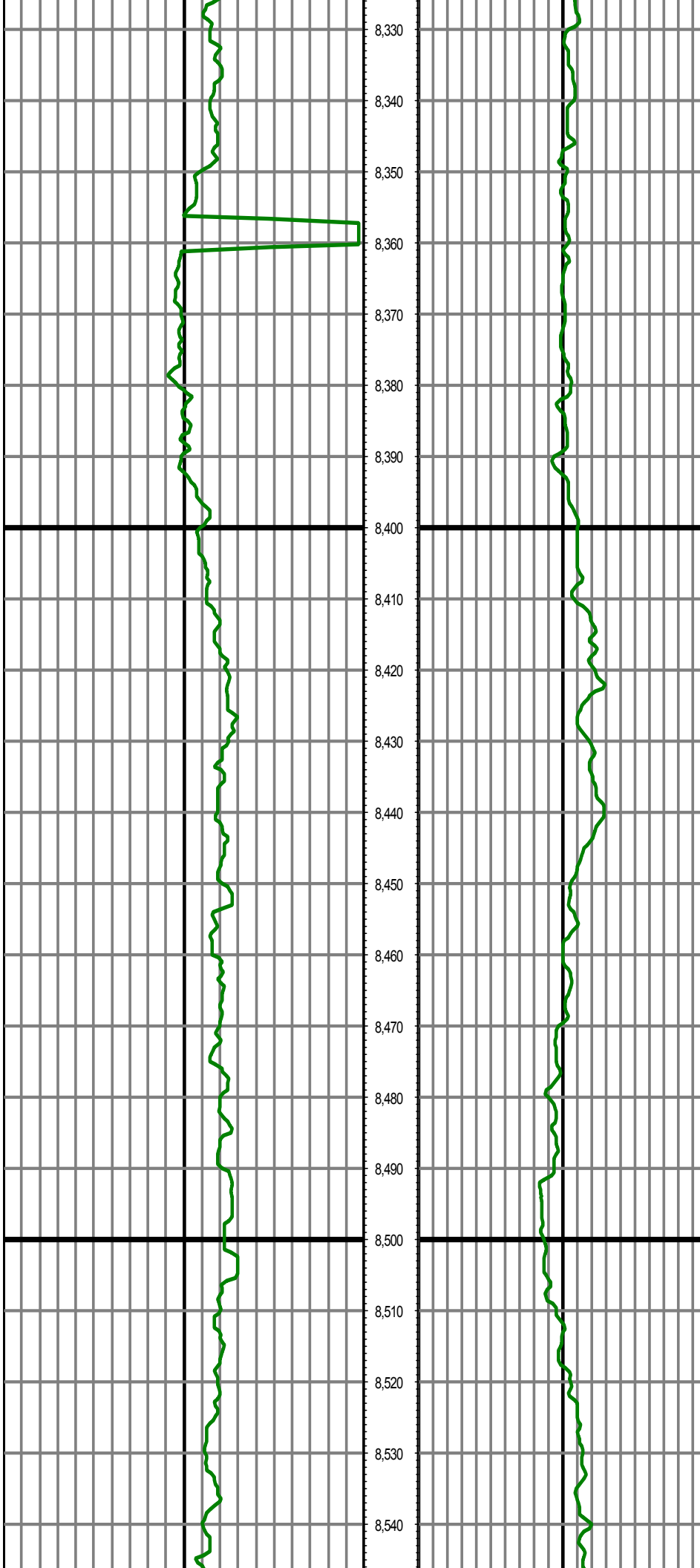
MD: 8014.00 INC: 91.49 AZ: 91.70 TVD: 7154.80 VS: -157.90



MD: 8109.00 INC: 91.92 AZ: 91.32 TVD: 7151.97 VS: -62.95

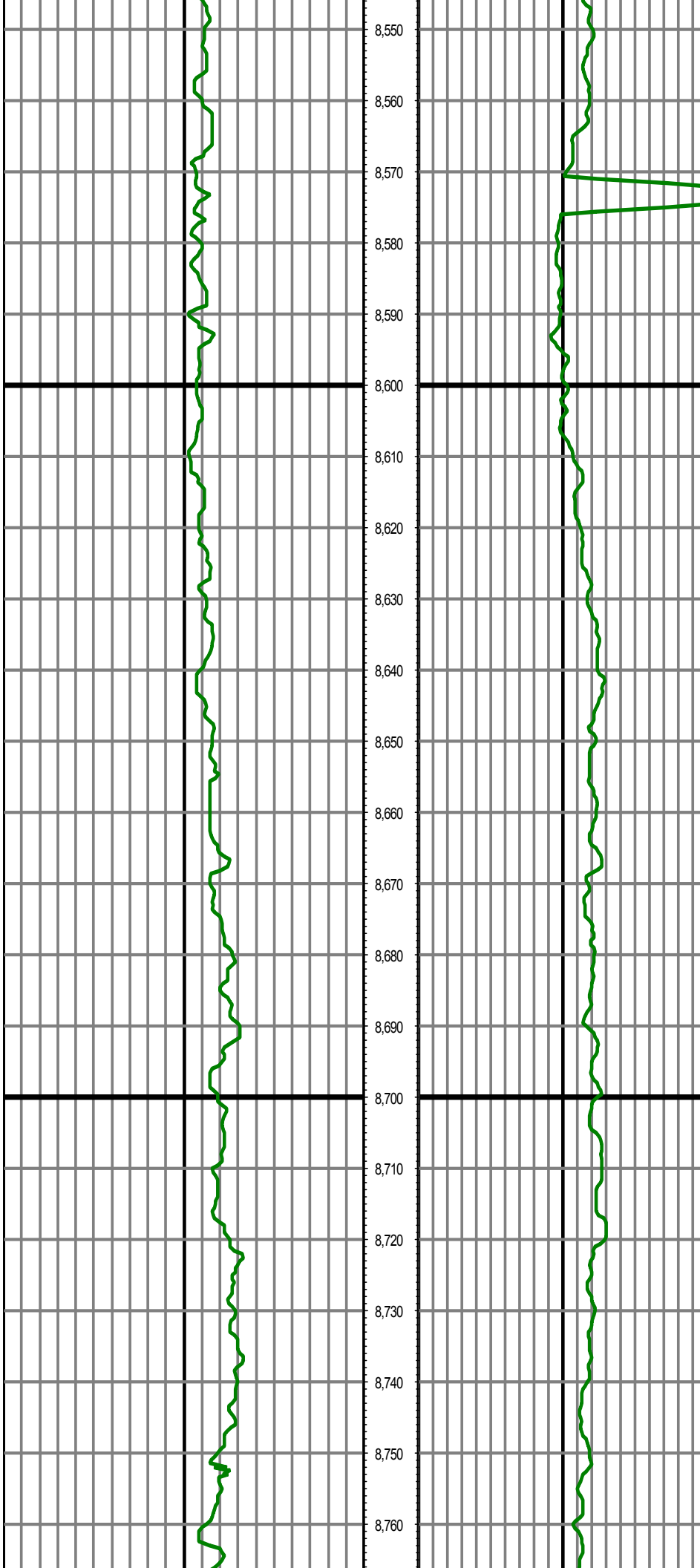
MD: 8204.00 INC: 92.37 AZ: 90.99 TVD: 7148.42 VS: 31.98

MD: 8299.00 INC: 90.23 AZ: 91.73 TVD: 7146.26 VS: 126.95



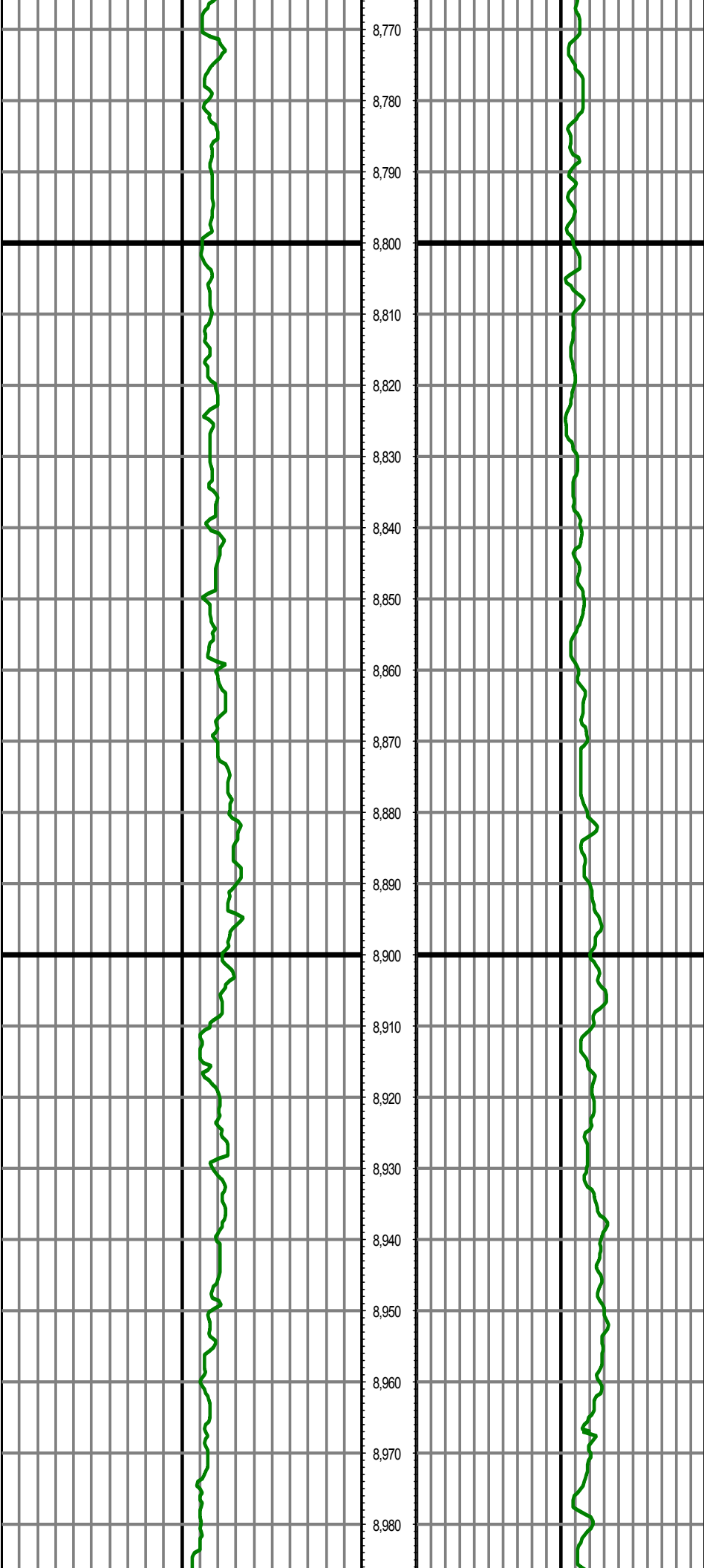
MD: 8394.00 INC: 90.72 AZ: 91.82 TVD: 7145.48 VS: 221.93

MD: 8488.00 INC: 90.77 AZ: 91.34 TVD: 7144.25 VS: 315.91



MD: 8583.00 INC: 91.29 AZ: 91.37 TVD: 7142.55 VS: 410.89

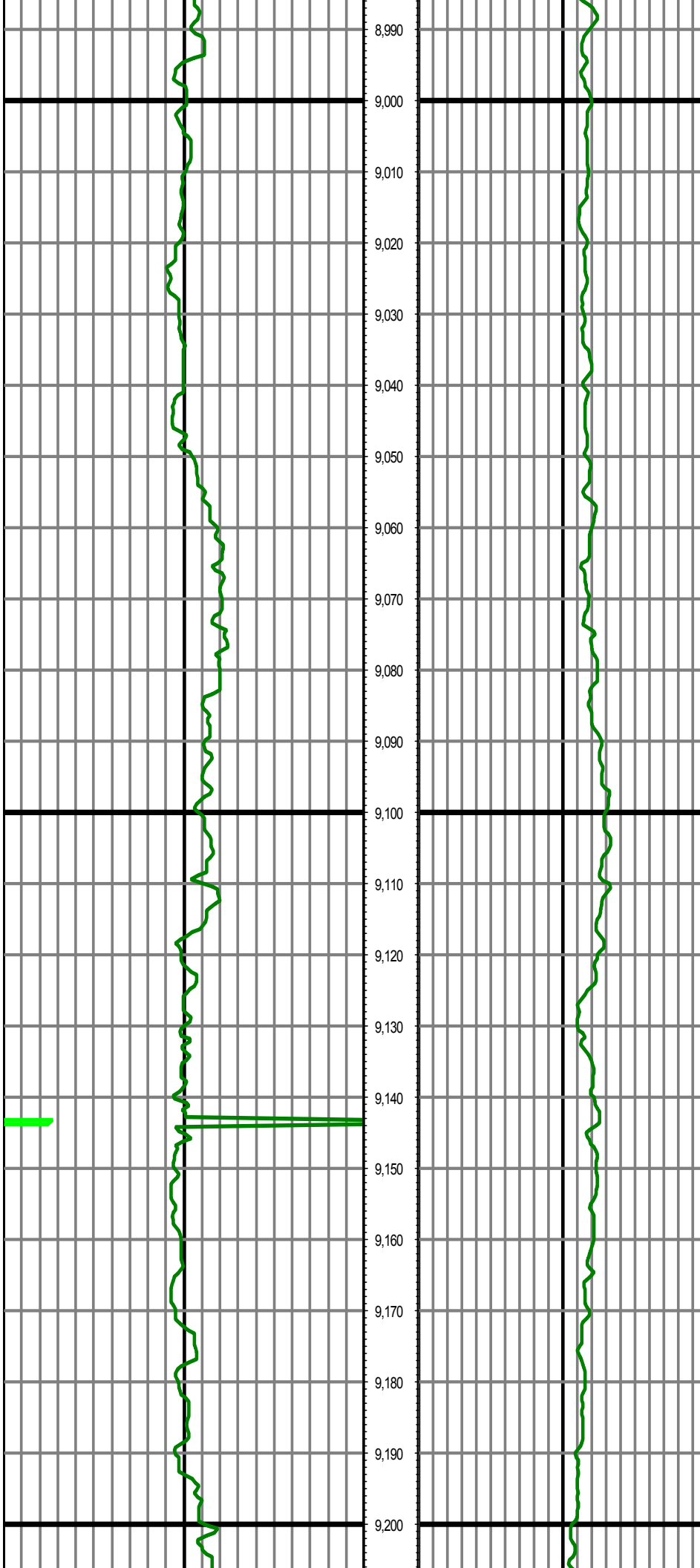
MD: 8676.00 INC: 88.66 AZ: 90.43 TVD: 7142.59 VS: 503.88



MD: 8772.00 INC: 89.18 AZ: 90.43 TVD: 7144.40 VS: 599.86

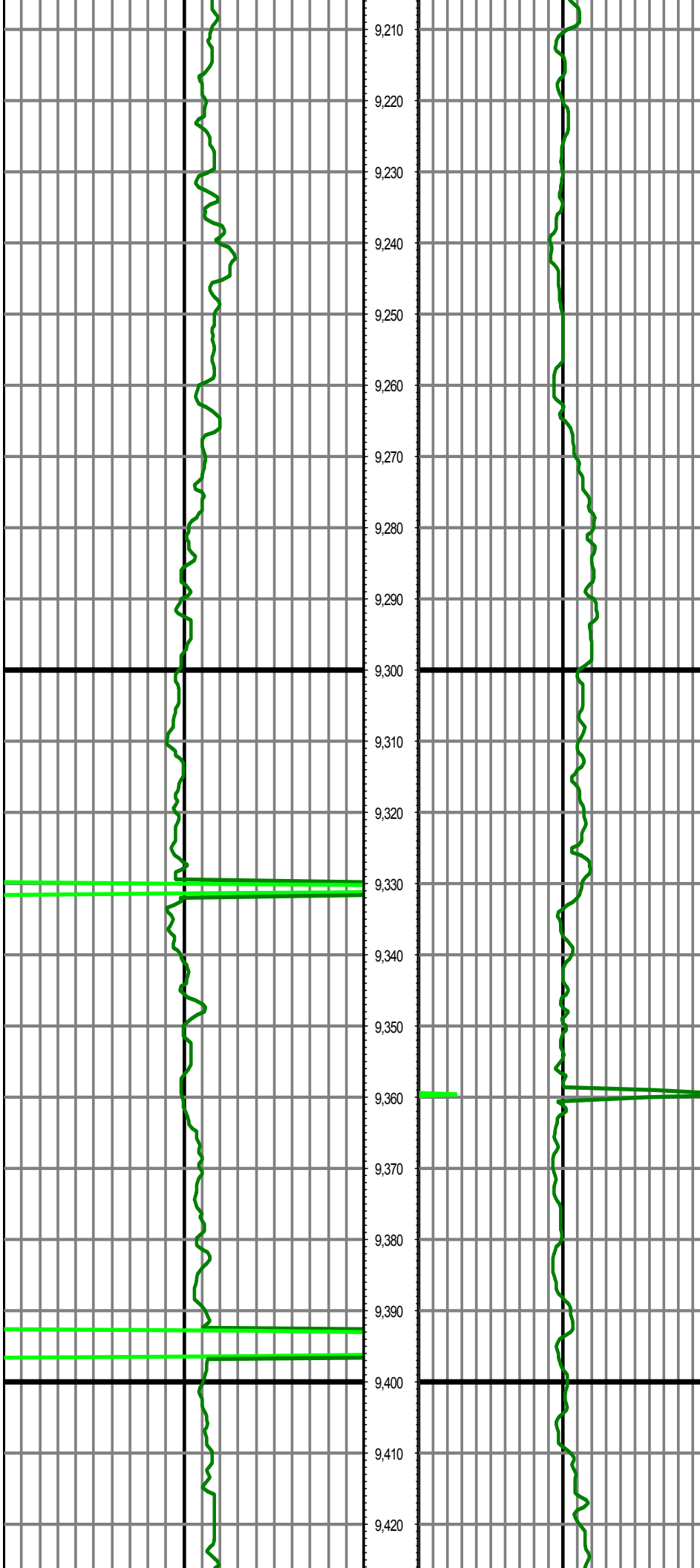
MD: 8867.00 INC: 89.94 AZ: 90.55 TVD: 7145.13 VS: 694.85

MD: 8961.00 INC: 90.20 AZ: 90.31 TVD: 7145.01 VS: 788.85



MD: 9056.00 INC: 88.98 AZ: 89.58 TVD: 7145.69 VS: 883.84

MD: 9151.00 INC: 88.61 AZ: 89.41 TVD: 7147.68 VS: 978.79



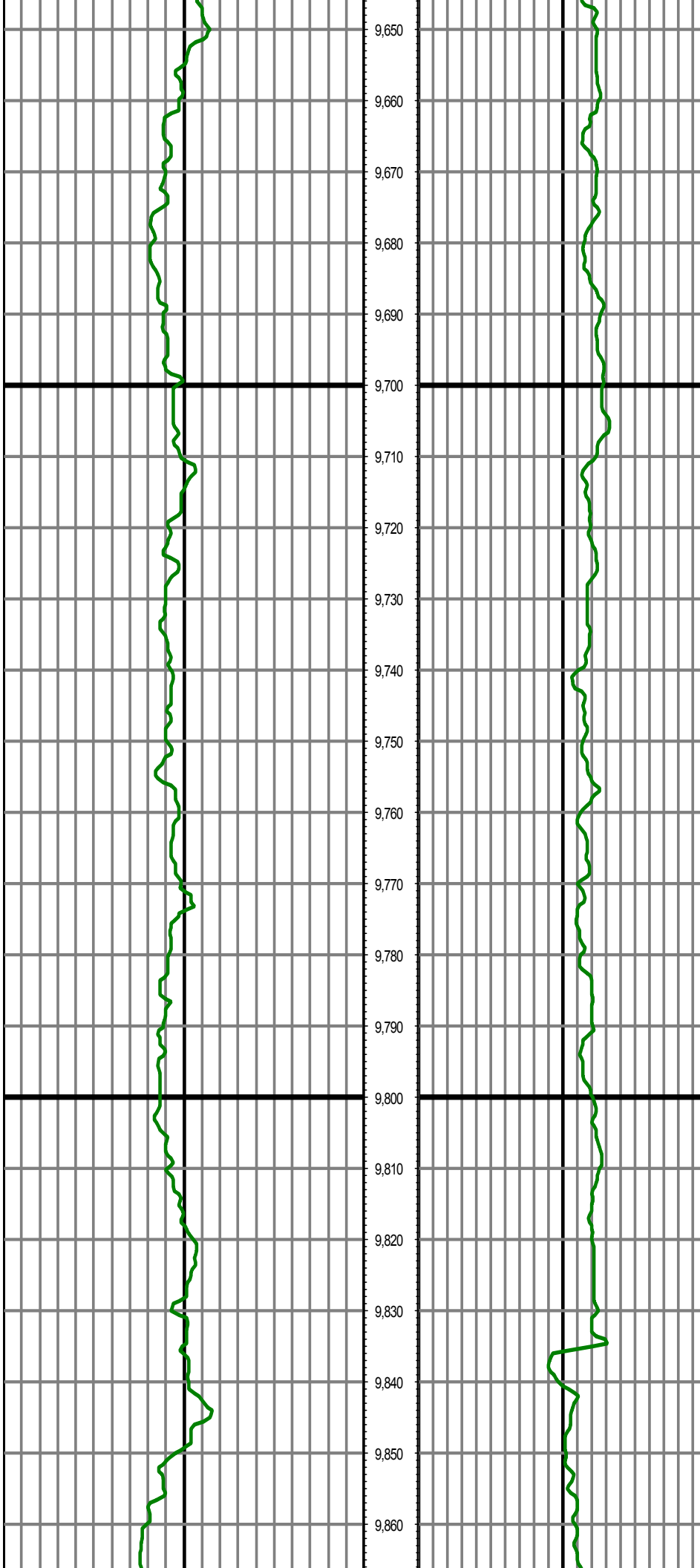
MD: 9247.00 INC: 88.35 AZ: 88.93 TVD: 7150.23 VS: 1074.73

MD: 9342.00 INC: 89.09 AZ: 88.53 TVD: 7152.35 VS: 1169.64

MD: 9438.00 INC: 89.96 AZ: 92.37 TVD: 7153.15 VS: 1265.62

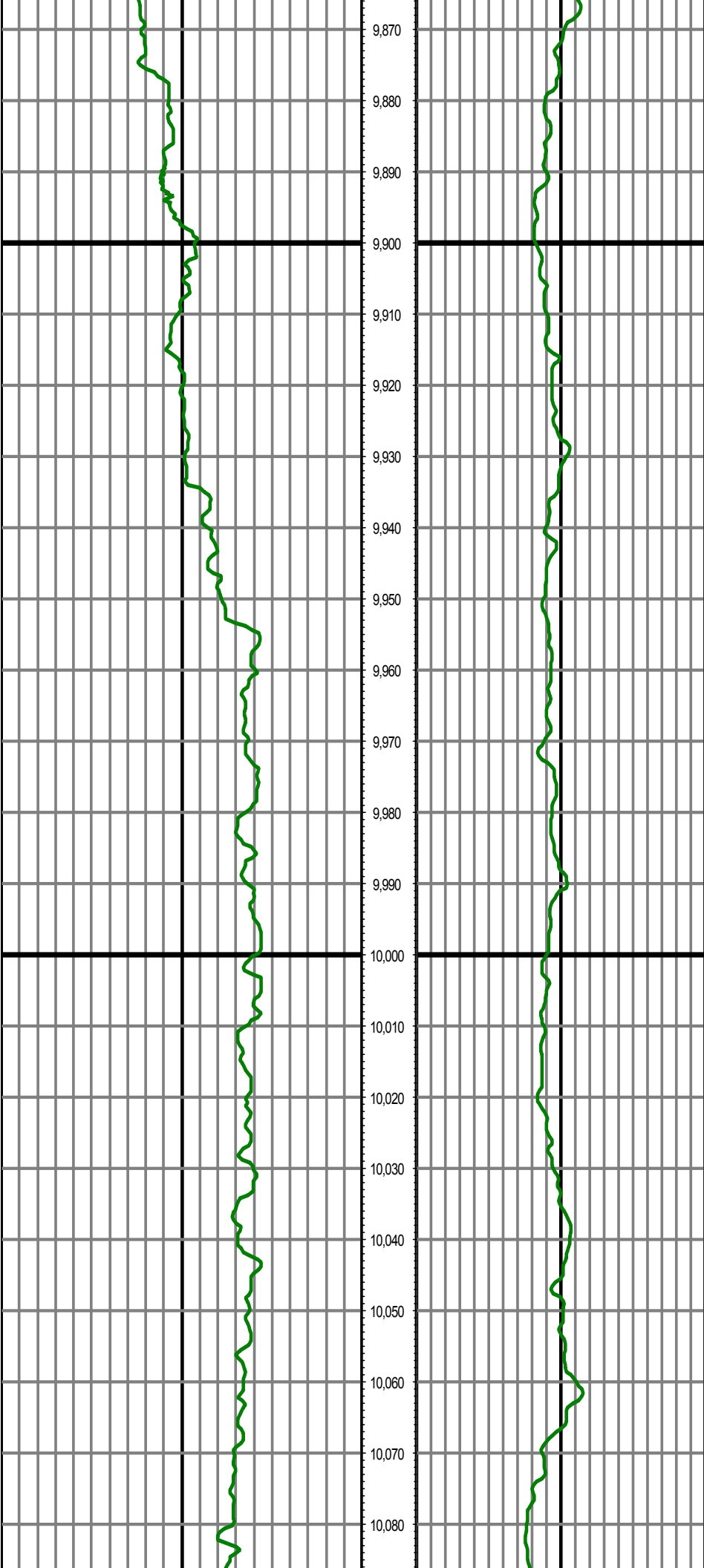
MD: 9532.00 INC: 90.06 AZ: 91.45 TVD: 7153.13 VS: 1359.60

MD: 9627.00 INC: 90.17 AZ: 91.12 TVD: 7152.94 VS: 1454.59



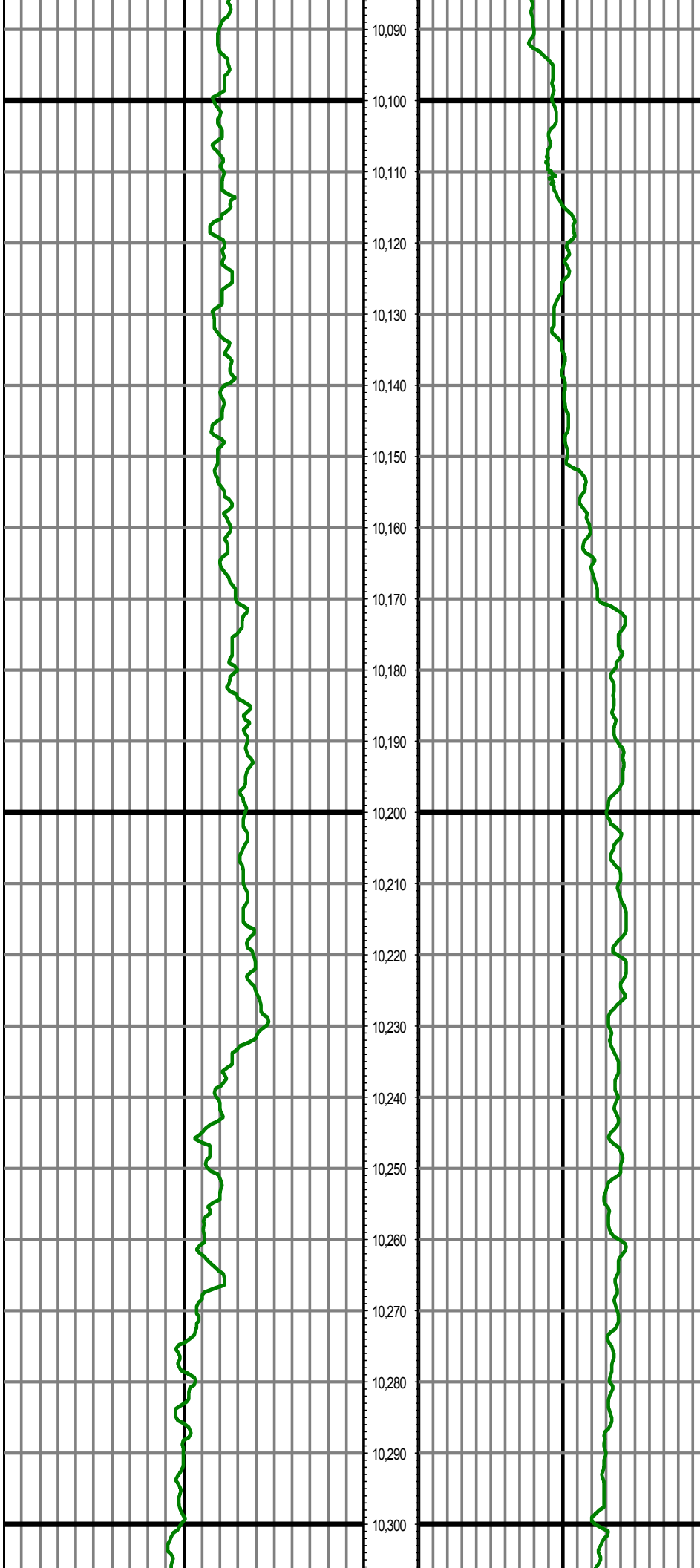
MD: 9723.00 INC: 90.34 AZ: 90.79 TVD: 7152.51 VS: 1550.59

MD: 9817.00 INC: 90.03 AZ: 90.56 TVD: 7152.21 VS: 1644.59



MD: 9912.00 INC: 90.93 AZ: 91.11 TVD: 7151.41 VS: 1739.59

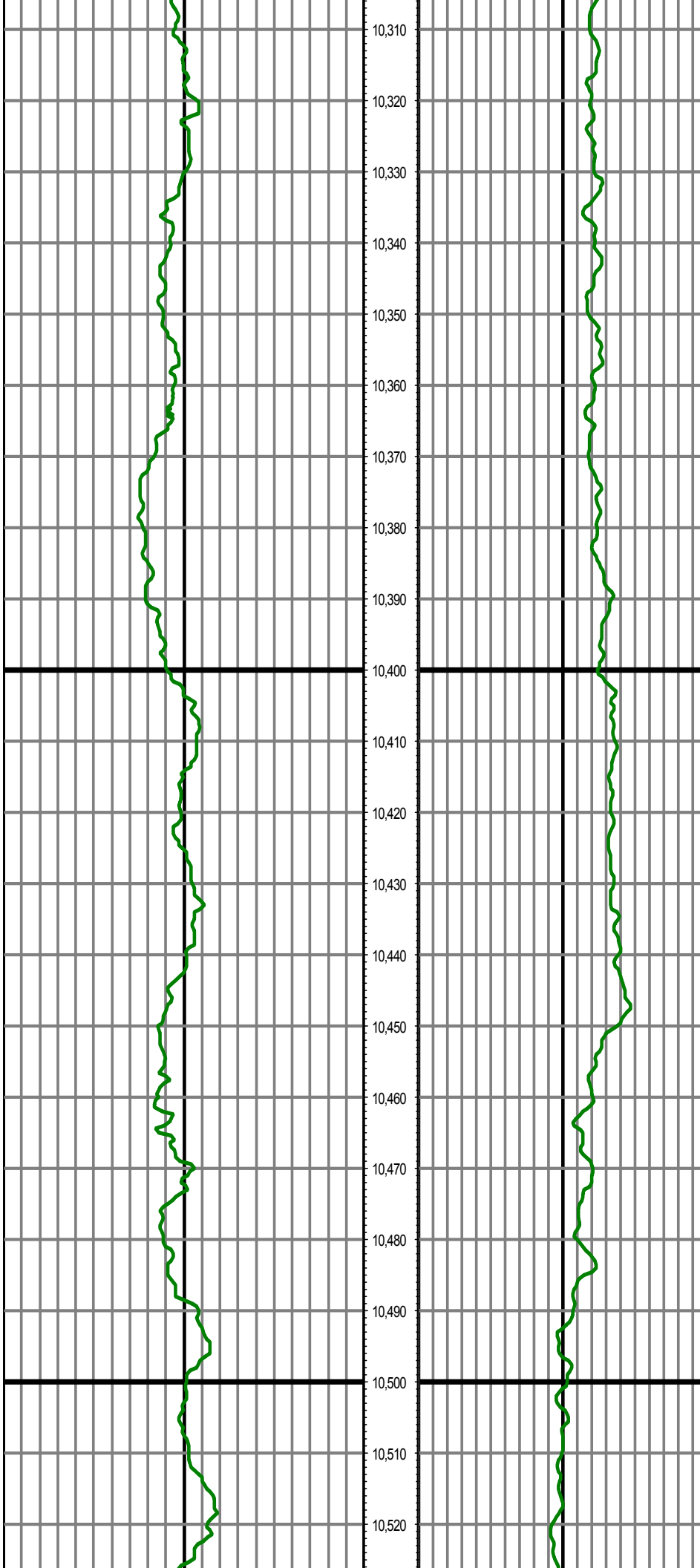
MD: 10008.00 INC: 91.31 AZ: 90.30 TVD: 7149.54 VS: 1835.57



MD: 10102.00 INC: 91.94 AZ: 90.06 TVD: 7146.87 VS: 1929.52

MD: 10197.00 INC: 89.53 AZ: 91.75 TVD: 7145.65 VS: 2024.51

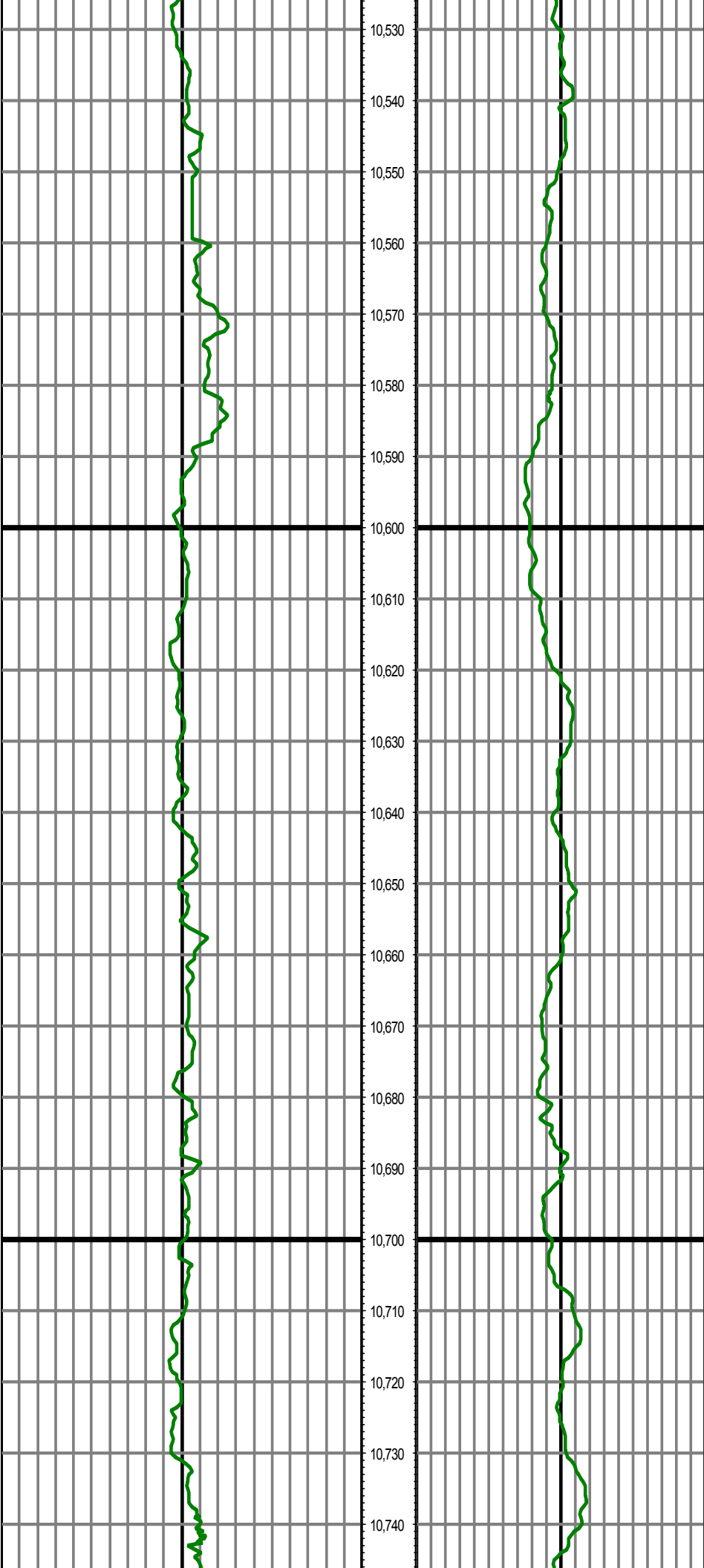
MD: 10292.00 INC: 90.15 AZ: 91.98 TVD: 7145.92 VS: 2119.49



10,310
10,320
10,330
10,340
10,350
10,360
10,370
10,380
10,390
10,400
10,410
10,420
10,430
10,440
10,450
10,460
10,470
10,480
10,490
10,500
10,510
10,520

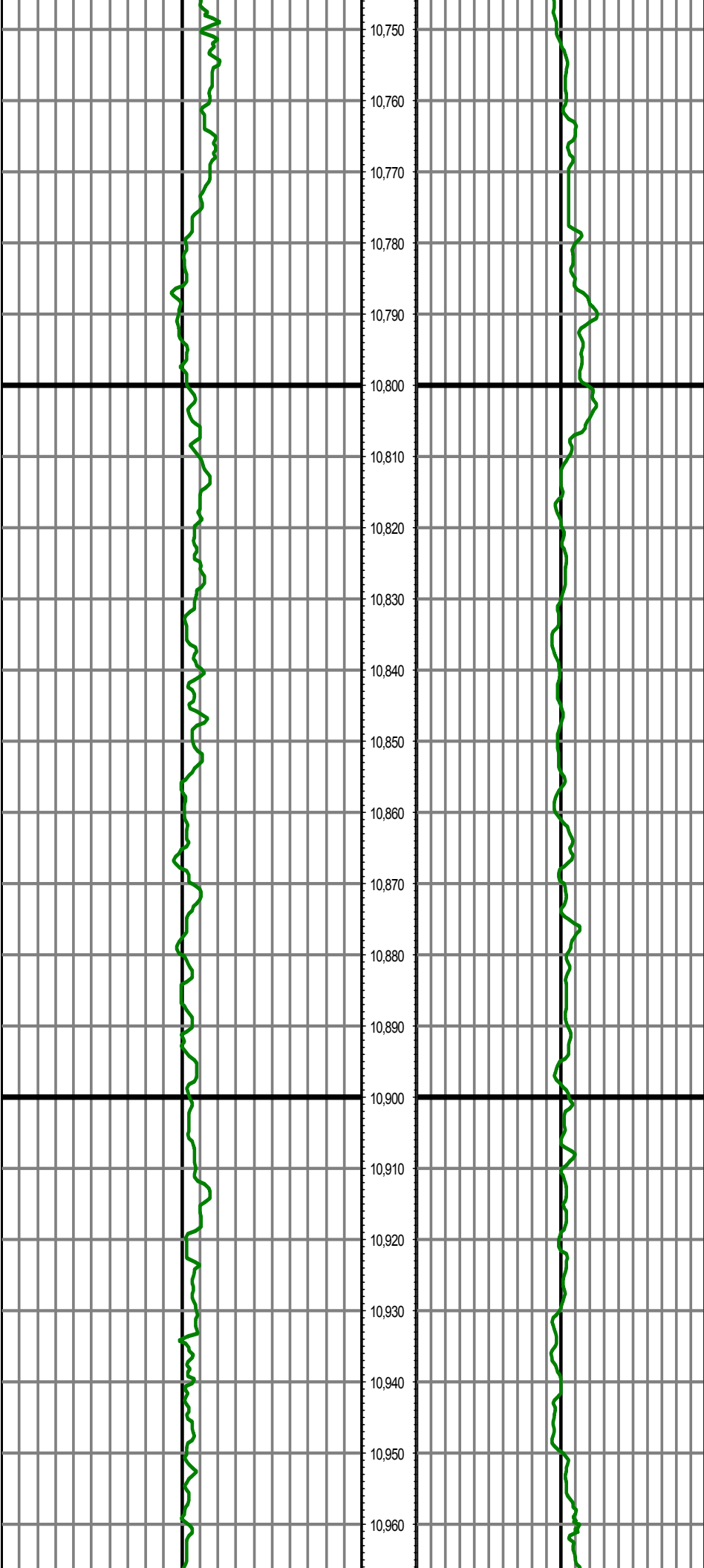
MD: 10387.00 INC: 89.41 AZ: 91.69 TVD: 7146.28 VS: 2214.47

MD: 10480.00 INC: 88.53 AZ: 91.10 TVD: 7147.95 VS: 2307.44



MD: 10574.00 INC: 88.28 AZ: 90.62 TVD: 7150.57 VS: 2401.41

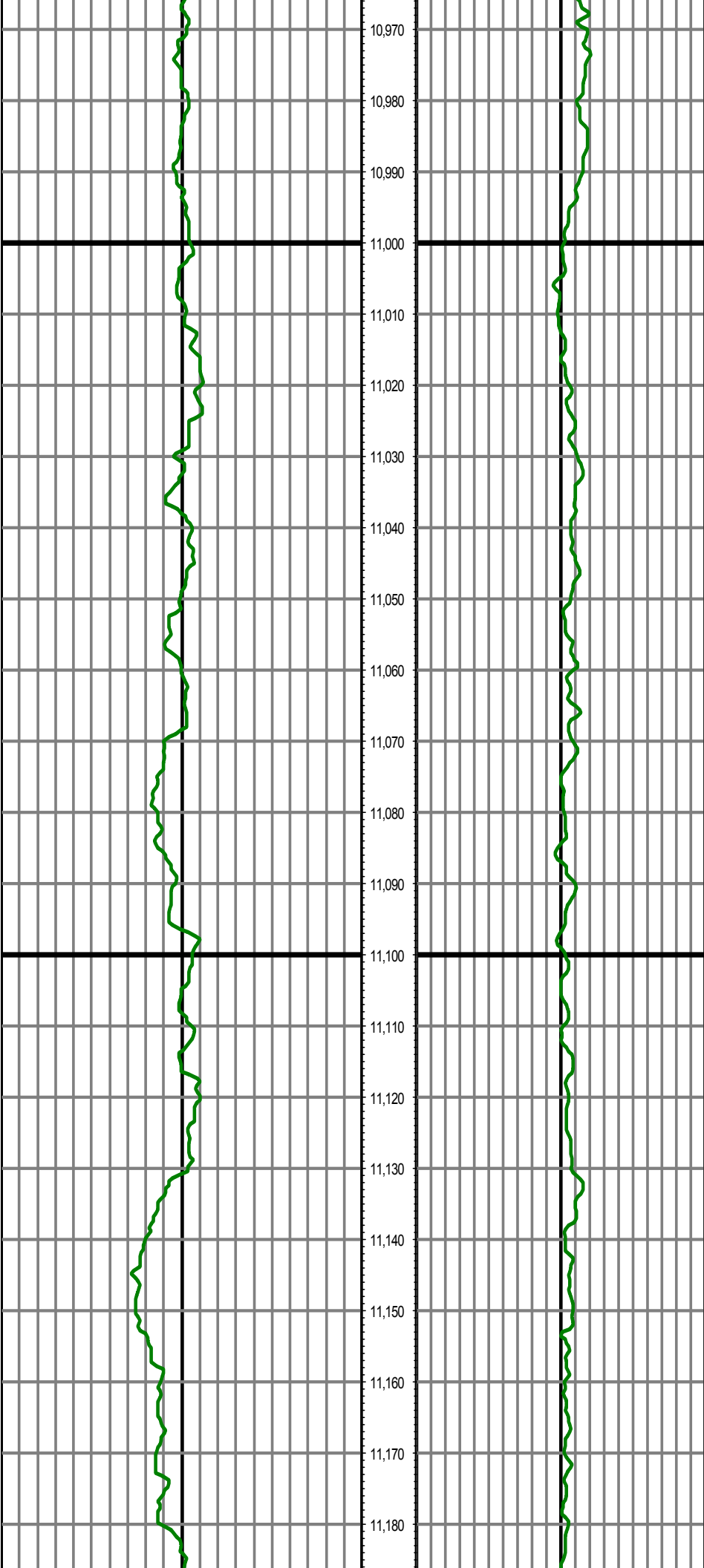
MD: 10669.00 INC: 87.97 AZ: 89.92 TVD: 7153.68 VS: 2496.35



MD: 10764.00 INC: 89.90 AZ: 90.02 TVD: 7155.44 VS: 2591.32

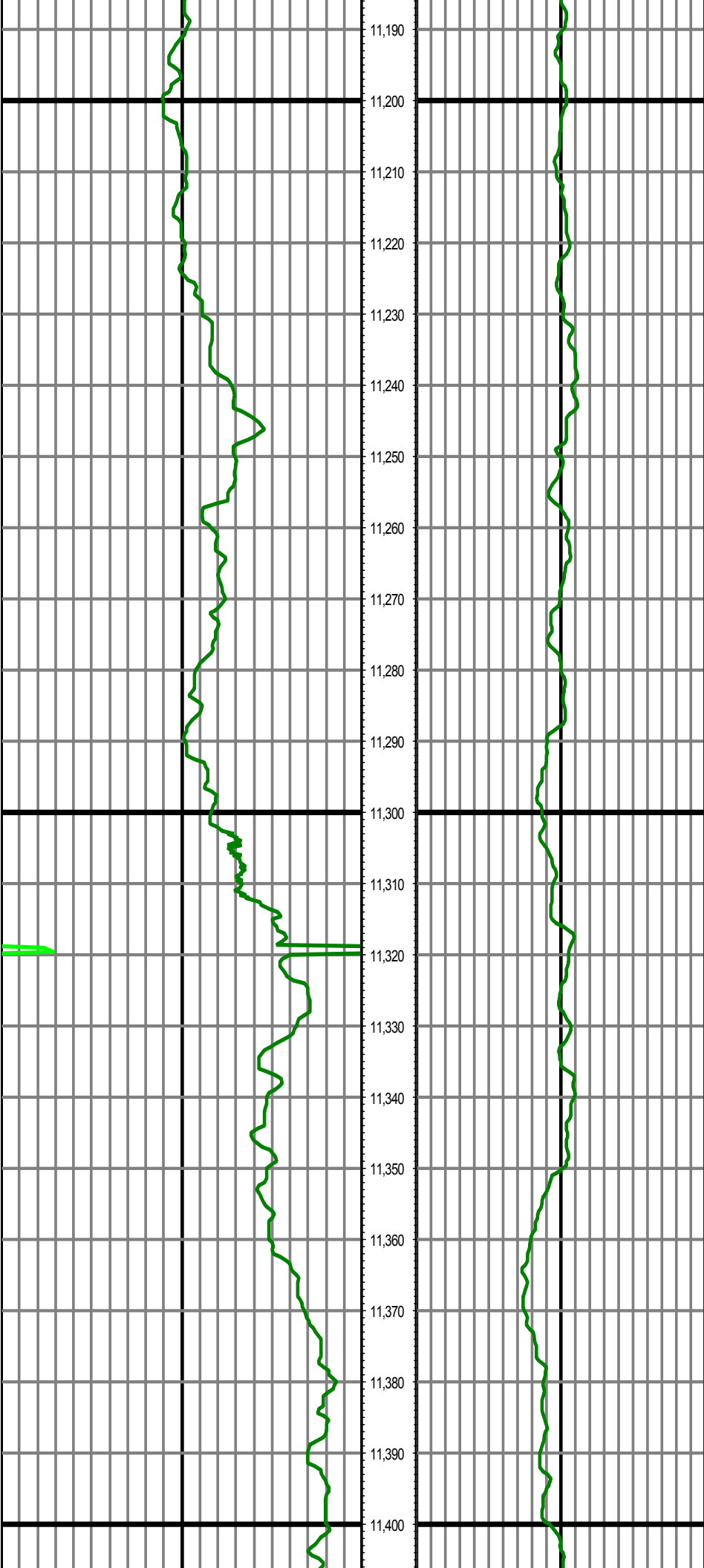
MD: 10859.00 INC: 90.08 AZ: 89.67 TVD: 7155.46 VS: 2686.31

MD: 10953.00 INC: 89.39 AZ: 89.12 TVD: 7155.90 VS: 2780.28



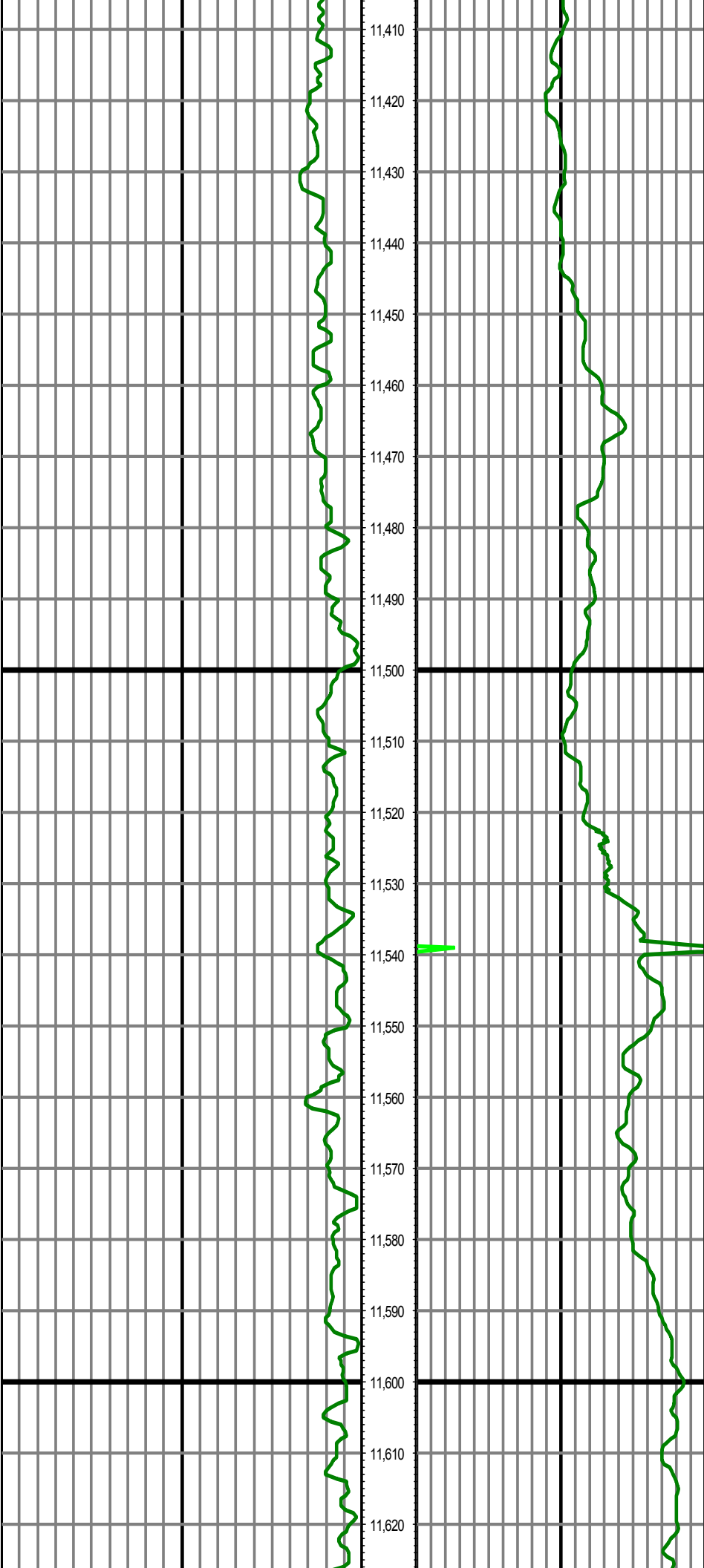
MD: 11048.00 INC: 89.76 AZ: 91.48 TVD: 7156.60 VS: 2875.27

MD: 11143.00 INC: 89.86 AZ: 90.84 TVD: 7156.92 VS: 2970.27



MD: 11238.00 INC: 91.72 AZ: 91.08 TVD: 7155.61 VS: 3065.25

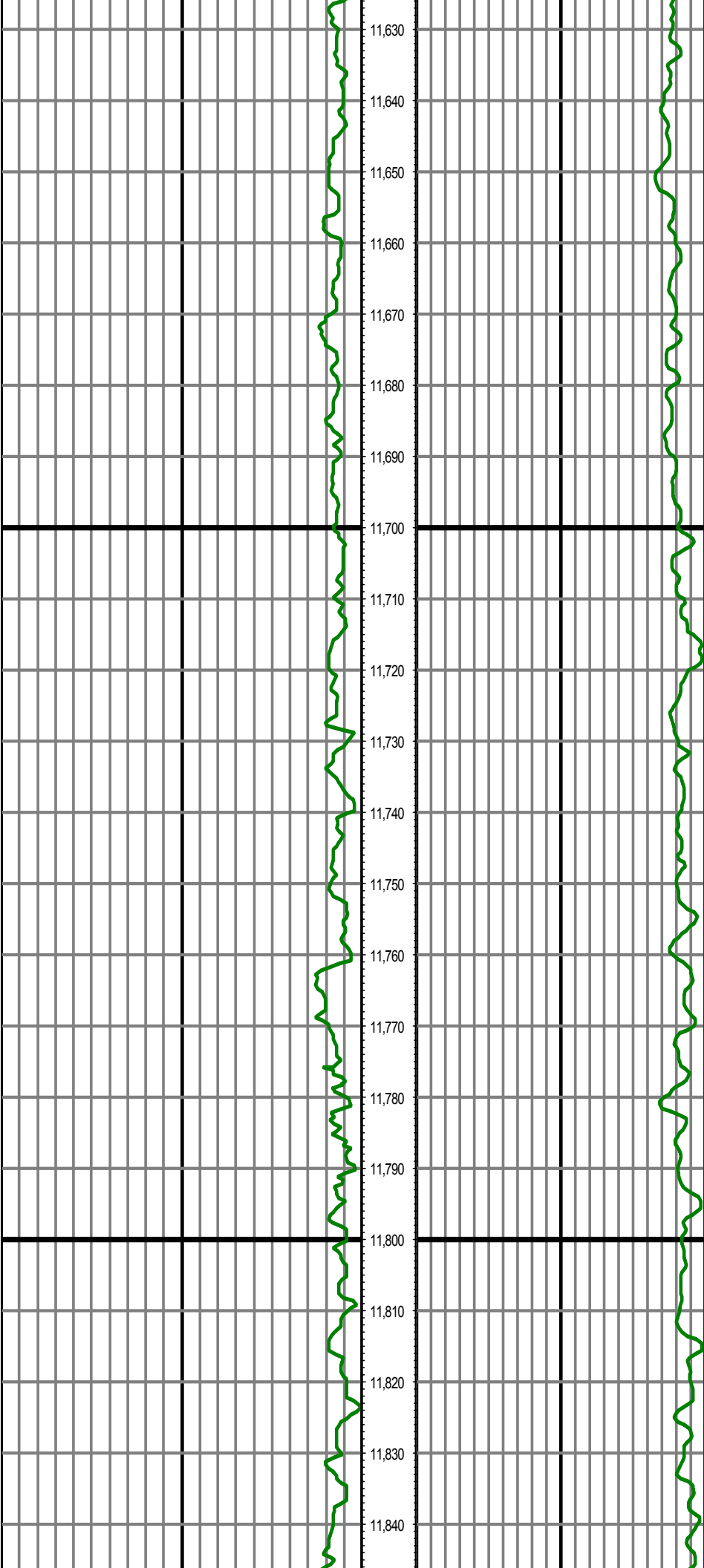
MD: 11333.00 INC: 91.80 AZ: 90.72 TVD: 7152.69 VS: 3160.21



MD: 11425.00 INC: 91.89 AZ: 90.39 TVD: 7149.73 VS: 3252.16

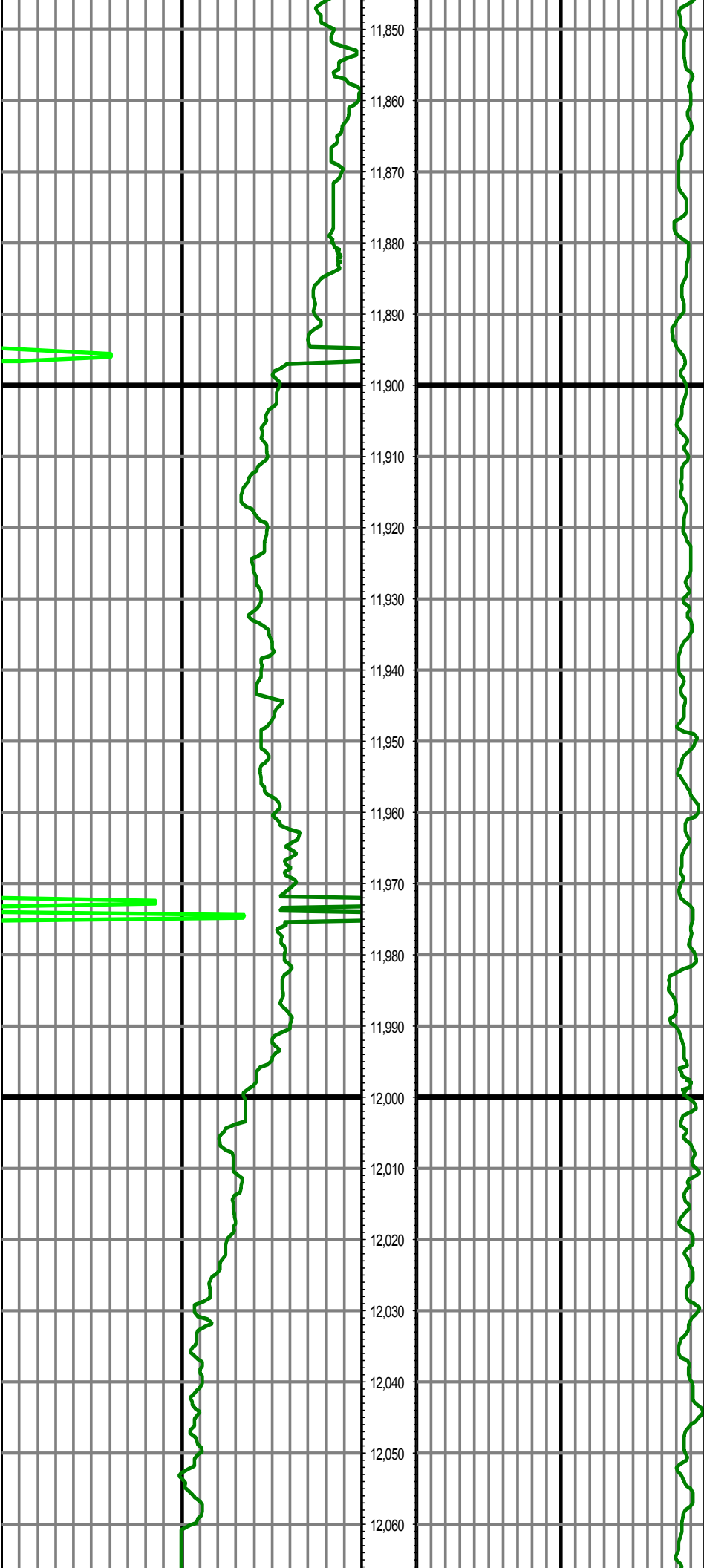
MD: 11518.00 INC: 92.04 AZ: 89.63 TVD: 7146.54 VS: 3345.10

MD: 11613.00 INC: 89.77 AZ: 90.45 TVD: 7145.04 VS: 3440.07



MD: 11707.00 INC: 90.16 AZ: 90.74 TVD: 7145.09 VS: 3534.07

MD: 11801.00 INC: 89.71 AZ: 90.51 TVD: 7145.20 VS: 3628.07



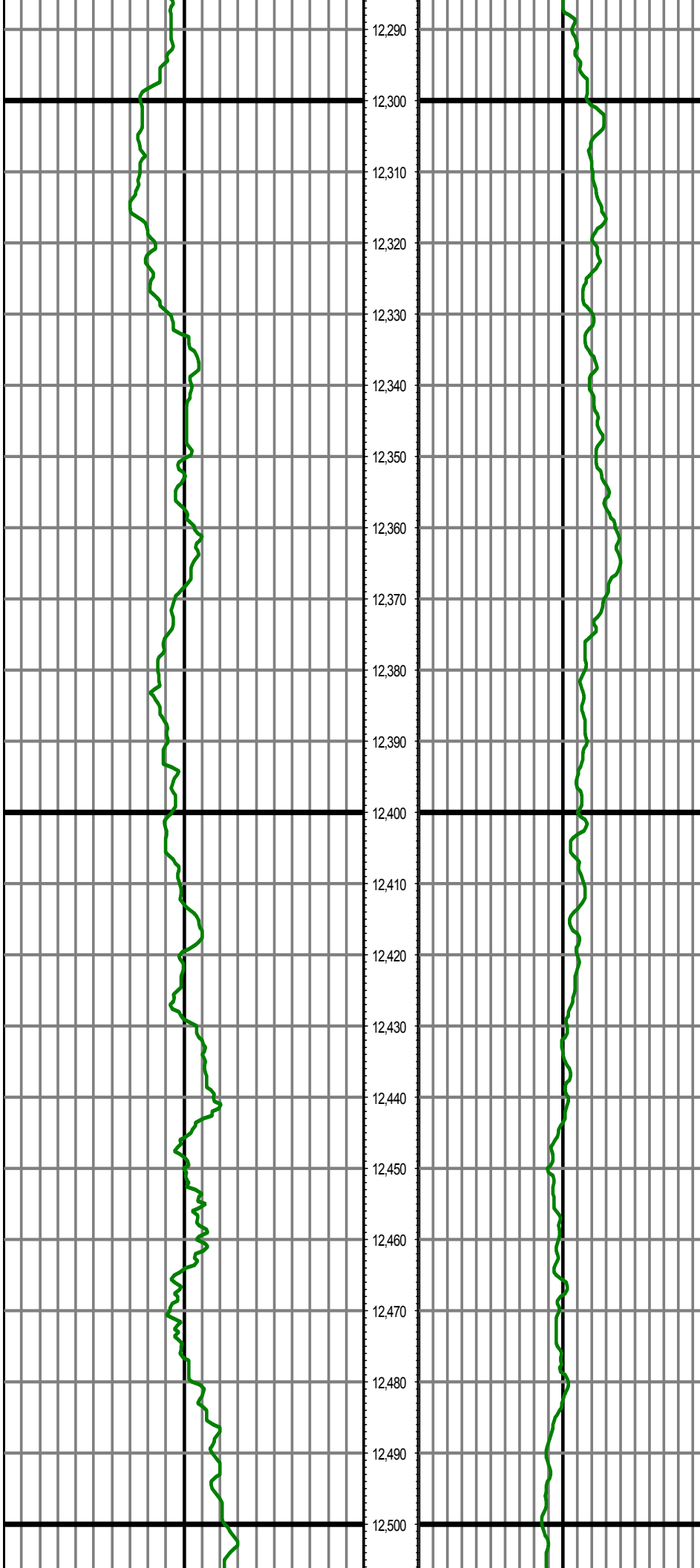
MD: 11895.00 INC: 89.95 AZ: 89.38 TVD: 7145.48 VS: 3722.06

MD: 11991.00 INC: 89.99 AZ: 88.84 TVD: 7145.53 VS: 3818.02

MD: 12086.00 INC: 88.77 AZ: 90.22 TVD: 7146.56 VS: 3912.99

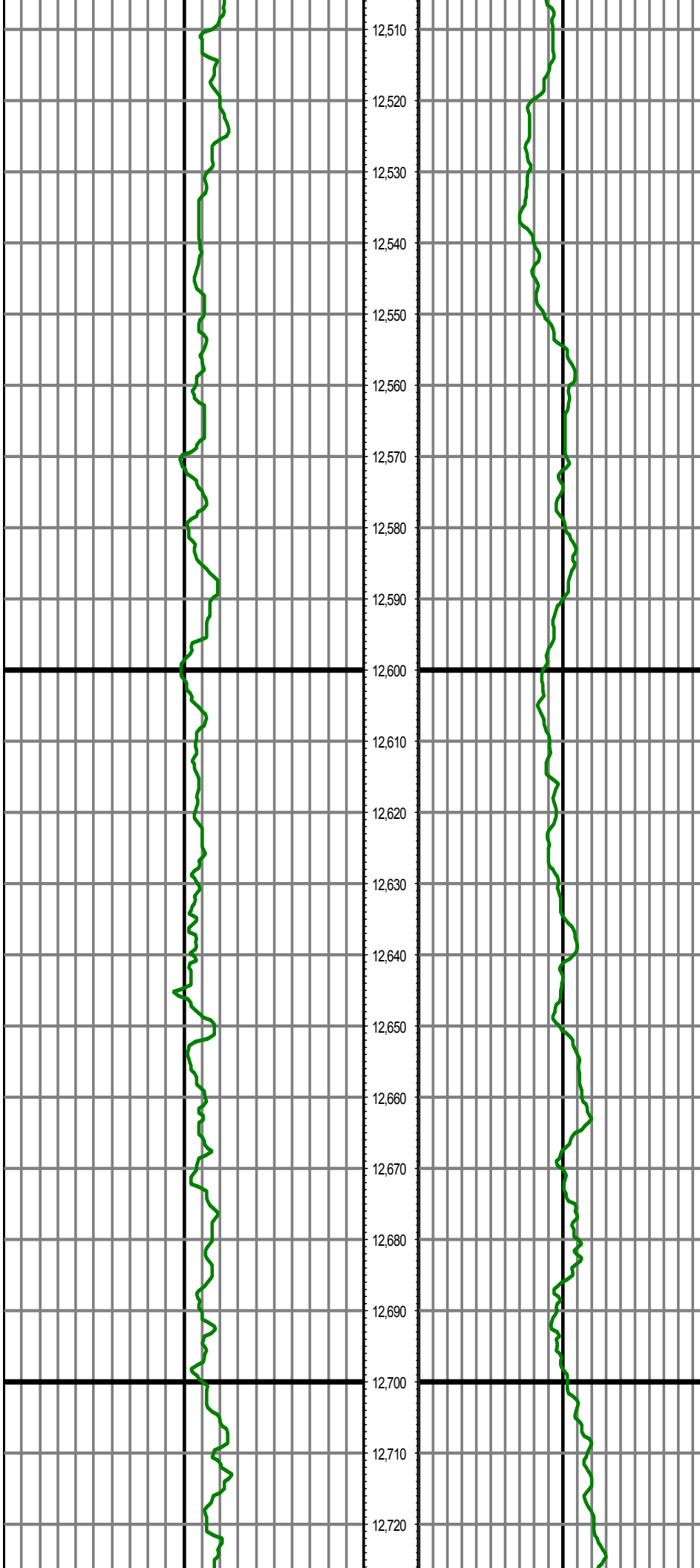
MD: 12180.00 INC: 88.47 AZ: 89.67 TVD: 7148.82 VS: 4006.95

MD: 12276.00 INC: 88.96 AZ: 92.21 TVD: 7150.97 VS: 4102.92



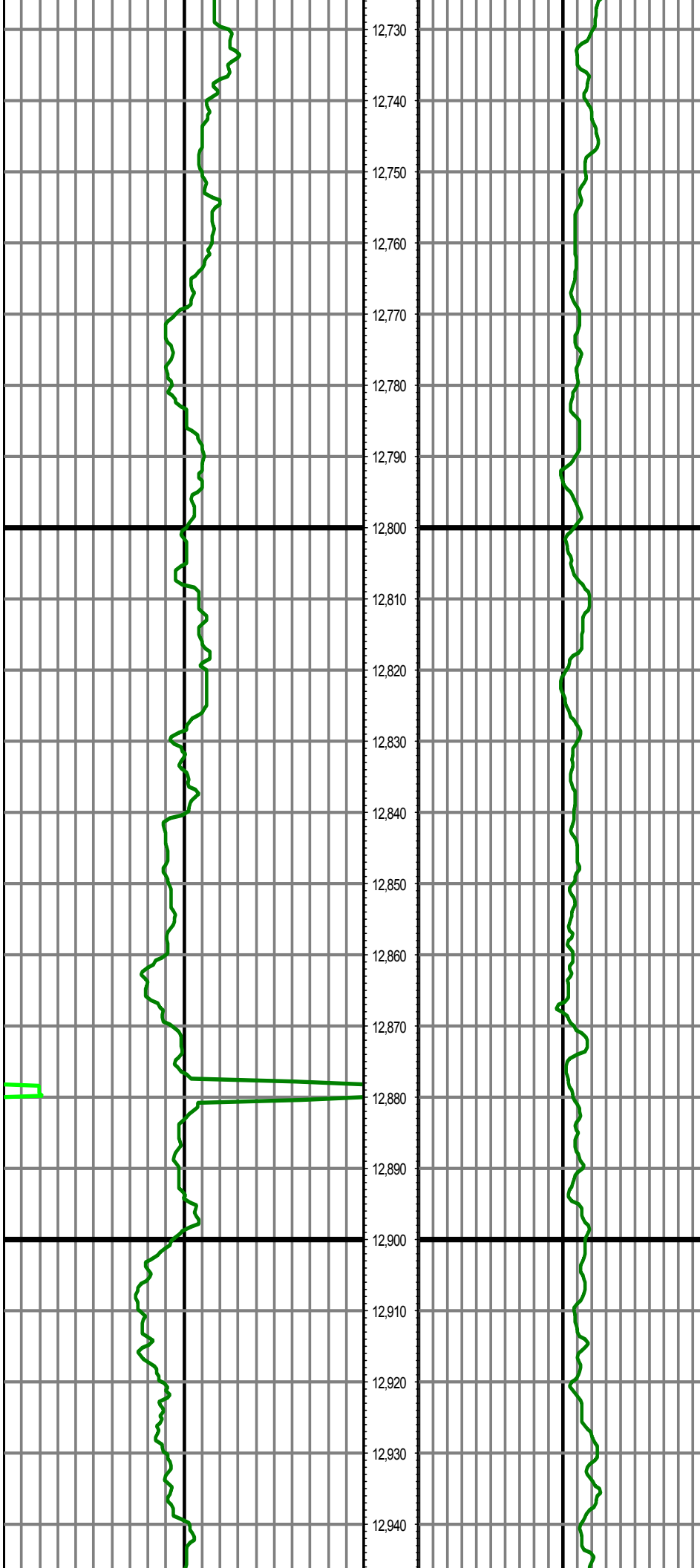
MD: 12371.00 INC: 88.74 AZ: 91.73 TVD: 7152.88 VS: 4197.88

MD: 12466.00 INC: 88.52 AZ: 91.43 TVD: 7155.15 VS: 4292.84



MD: 12561.00 INC: 88.09 AZ: 91.00 TVD: 7157.96 VS: 4387.80

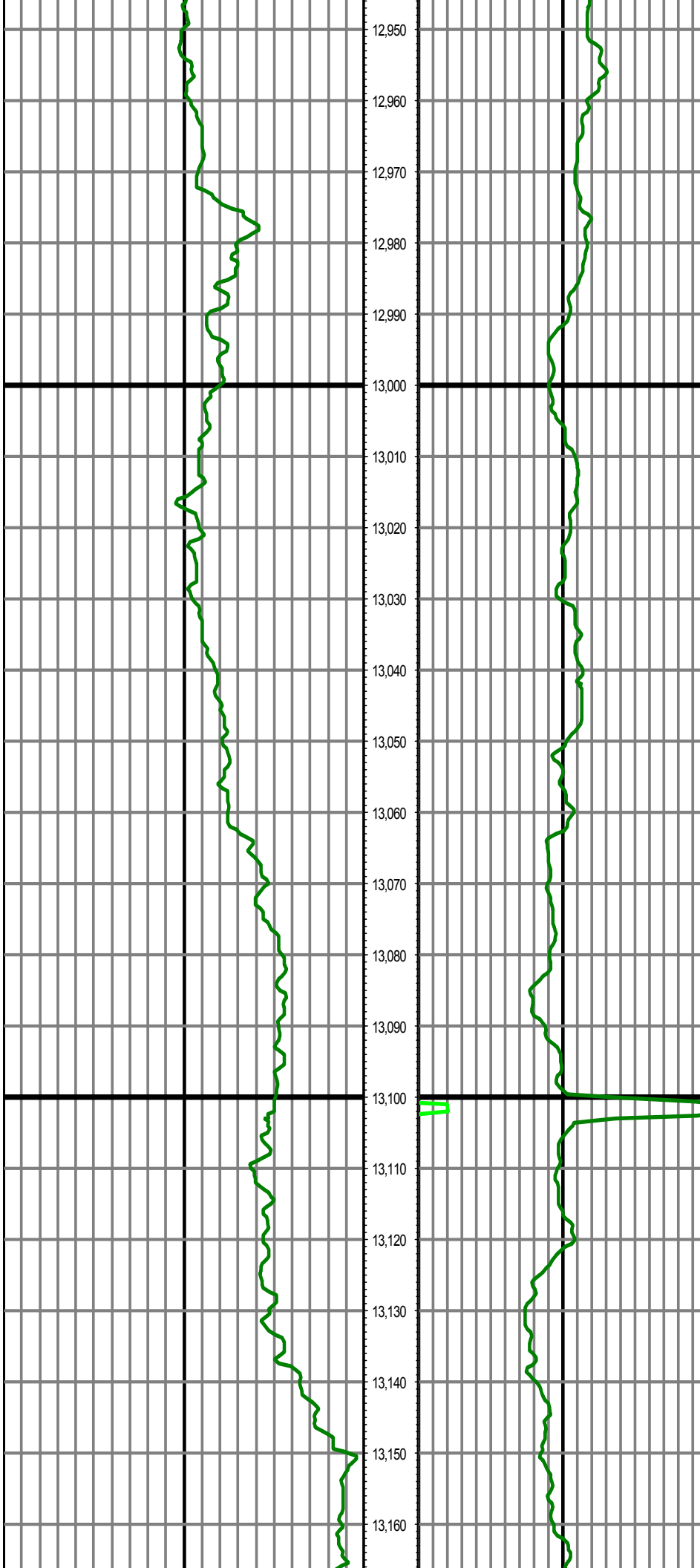
MD: 12656.00 INC: 87.75 AZ: 90.73 TVD: 7161.41 VS: 4482.73



MD: 12752.00 INC: 89.29 AZ: 92.69 TVD: 7163.89 VS: 4578.68

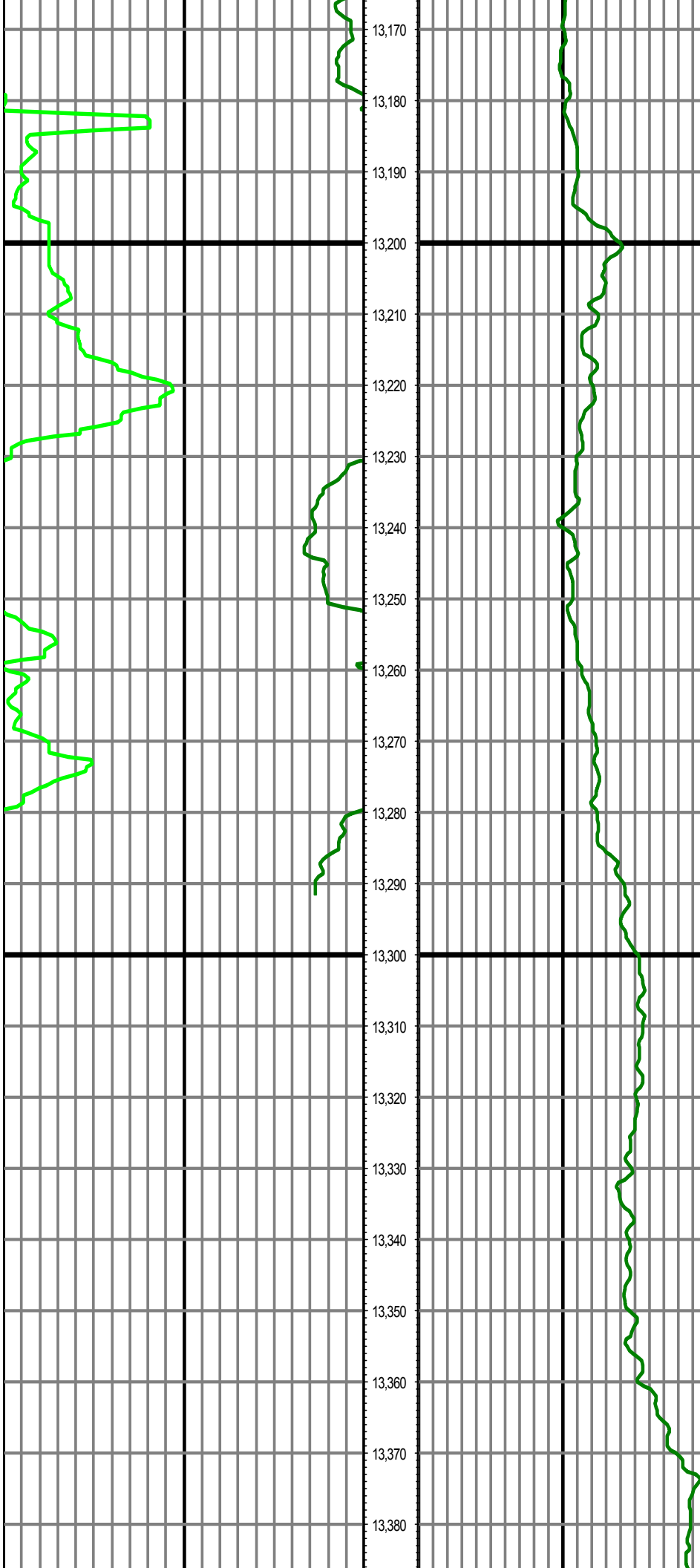
MD: 12846.00 INC: 89.87 AZ: 94.26 TVD: 7164.58 VS: 4672.57

MD: 12942.00 INC: 91.87 AZ: 94.63 TVD: 7163.12 VS: 4768.35



MD: 13037.00 INC: 92.05 AZ: 94.04 TVD: 7159.87 VS: 4863.11

MD: 13131.00 INC: 92.83 AZ: 94.06 TVD: 7155.87 VS: 4956.86



MD: 13226.00 INC: 91.00 AZ: 92.36 TVD: 7152.70 VS: 5051.71

MD: 13320.00 INC: 91.77 AZ: 91.85 TVD: 7150.42 VS: 5145.66

