



Premier Directional Drilling
12941 North Freeway Suite 400
Houston TX 77060
281-673-4000

Powers 2G-27HZ
Scale 5":100' - MD
10/10/2015 7:34 PM

Oper. Company: Anadarko Petroleum

State: Colorado

Well: Powers 2G-27HZ

County: Weld

Field: Wattenberg

Country: USA

Rig: HP 307

Location: NENE Sec 22-T2N-R65W

Well ID: 05123419540000

Start Date: 10/08/2015 11:04:00

Job Number: R15382

End Date: 10/10/2015 09:56:00

Notes: Recorded Mode Log
Gamma Correction Determined by Pipe ID & OD, Mud Weight & Bit Size

Latitude: 40.130530

Elev KB: 4919'

Longitude: -104.645295

Elev DF: 4919'

Elev GL: 4894'

Notes: Datum: NAD 1983Map Zone 13N(108 W to 102 W)Total Correction: 8.22° (Mean MagVar)Grid Convergence: 0.23°

Operator 1: Robert Grossman

Operator 2: Mike Gunther

Notes: Smoothing: 7Gap:10Survey Tool Type: Mud PulseCalculation Method: Minimum Curvature

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	190				
Bit Size	8 1/2				
Cal Factor	6.3844				
Survey Offset:	73.00				
Gamma Offset	68.00				
Resistivity Offset	0.00				
Start Depth	1903.00				
StartDate	10/7/2015				
StartTime	16:00				
EndDepth	13052.00				
EndDate	10/10/2015				
EndTime	18:00				
Mud Type	OBM				
Mud Weight	9.5				
Funnel Viscosity	64				
Plastic Viscosity	24				
Yield Point	10				
Gel Strength	NA				
Solids Content	9.7				
Sand Content	NA				
Mud Alkalinity	NA				
Filtrate Alkalinity	NA				
Chlorides	57000				
Mud RM	NA				
Mud RMF	NA				
Mud RMC	NA				
Mud RM at BHT	NA				
Temperature	NA				
Hole Data			Casing Data		
Size	From	To	Size	From	To
13.5	0.00	1903.00	9.625	0.00	1893.00
8.5	1903.00	13052.00	5.5	0.00	13052.00

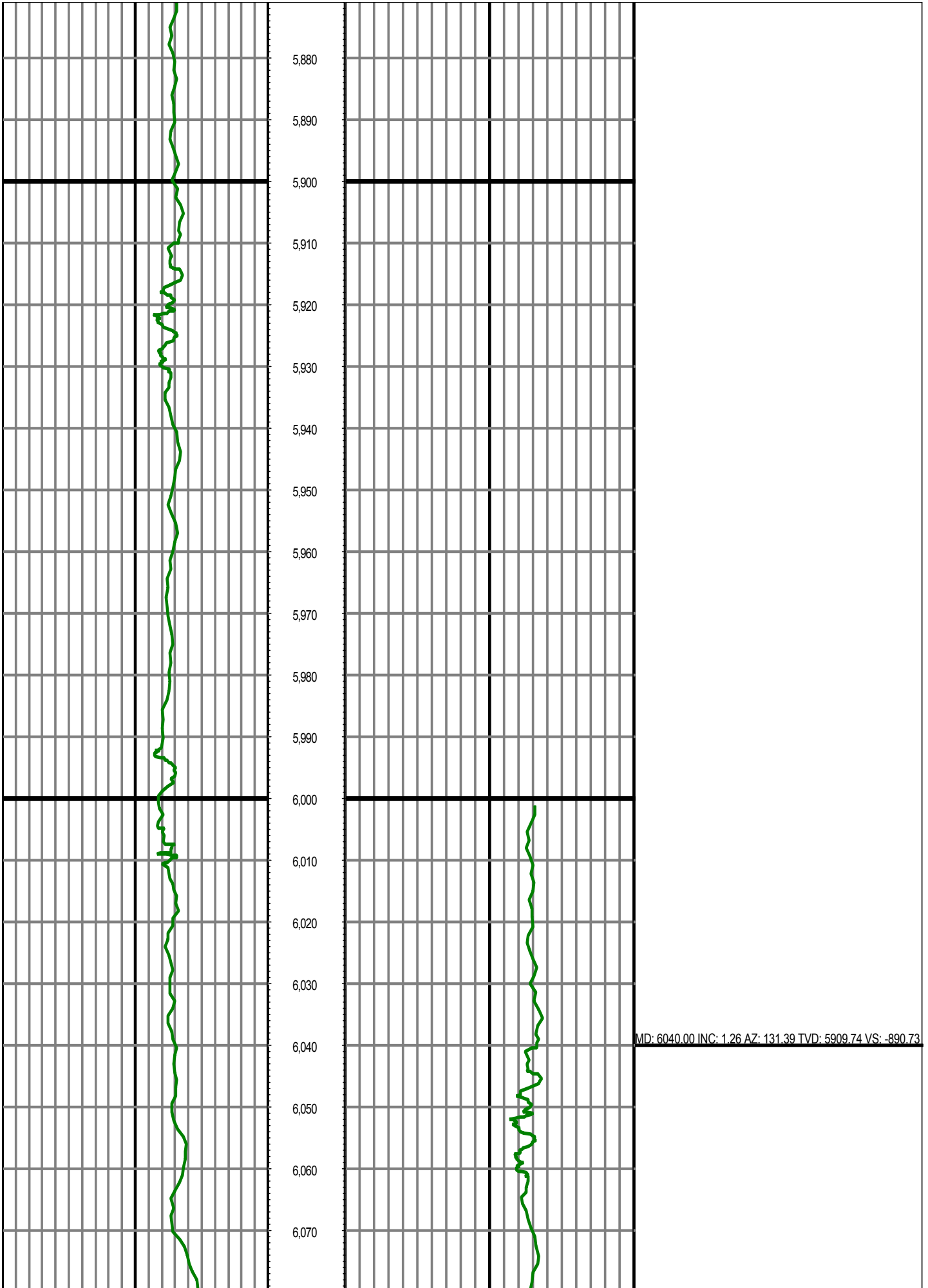
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost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

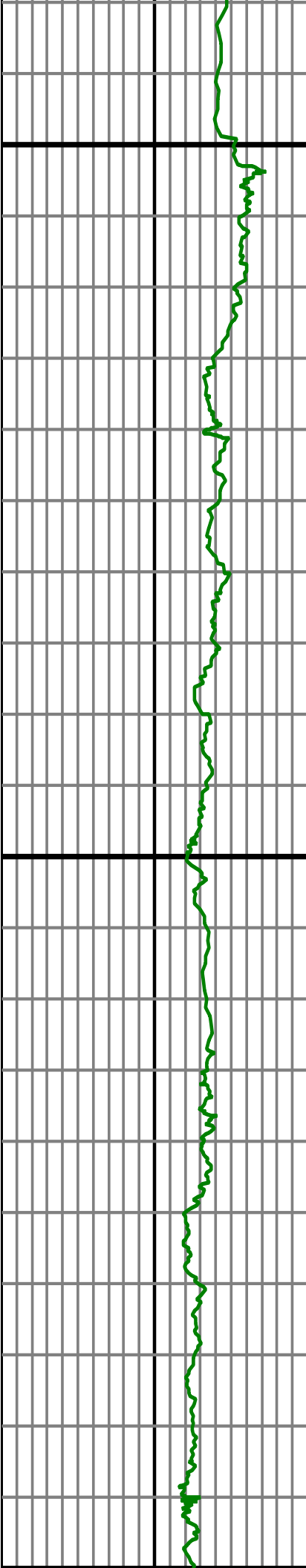
0.00 GR RM(API) on TVD 200.00
200.00 2 400.00

MD
FT

0.00 GR RM(API) on MD 200.00
200.00 2 400.00

Surveys (MD/INC/AZ/TVD/VS)





6,090

6,100

6,110

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6,170

6,180

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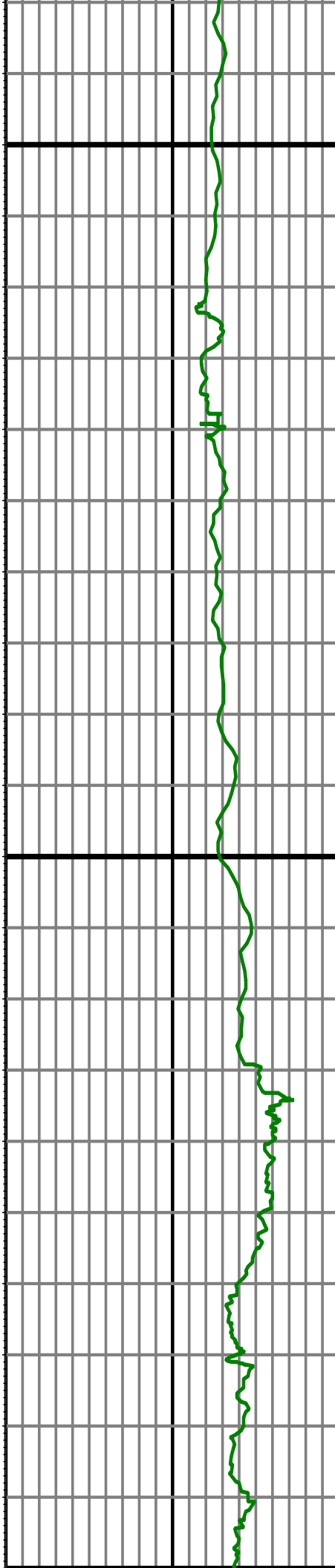
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6,270

6,280

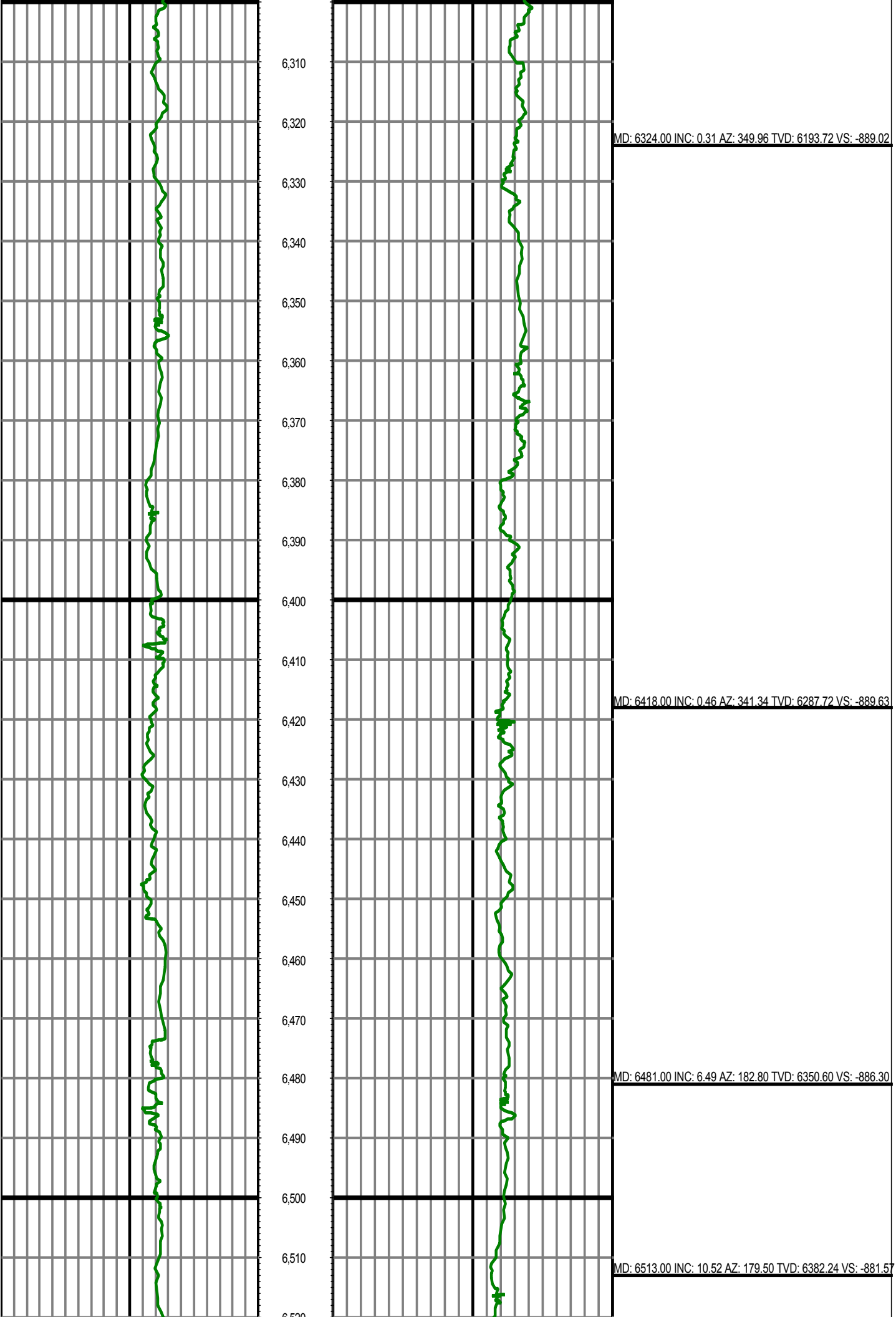
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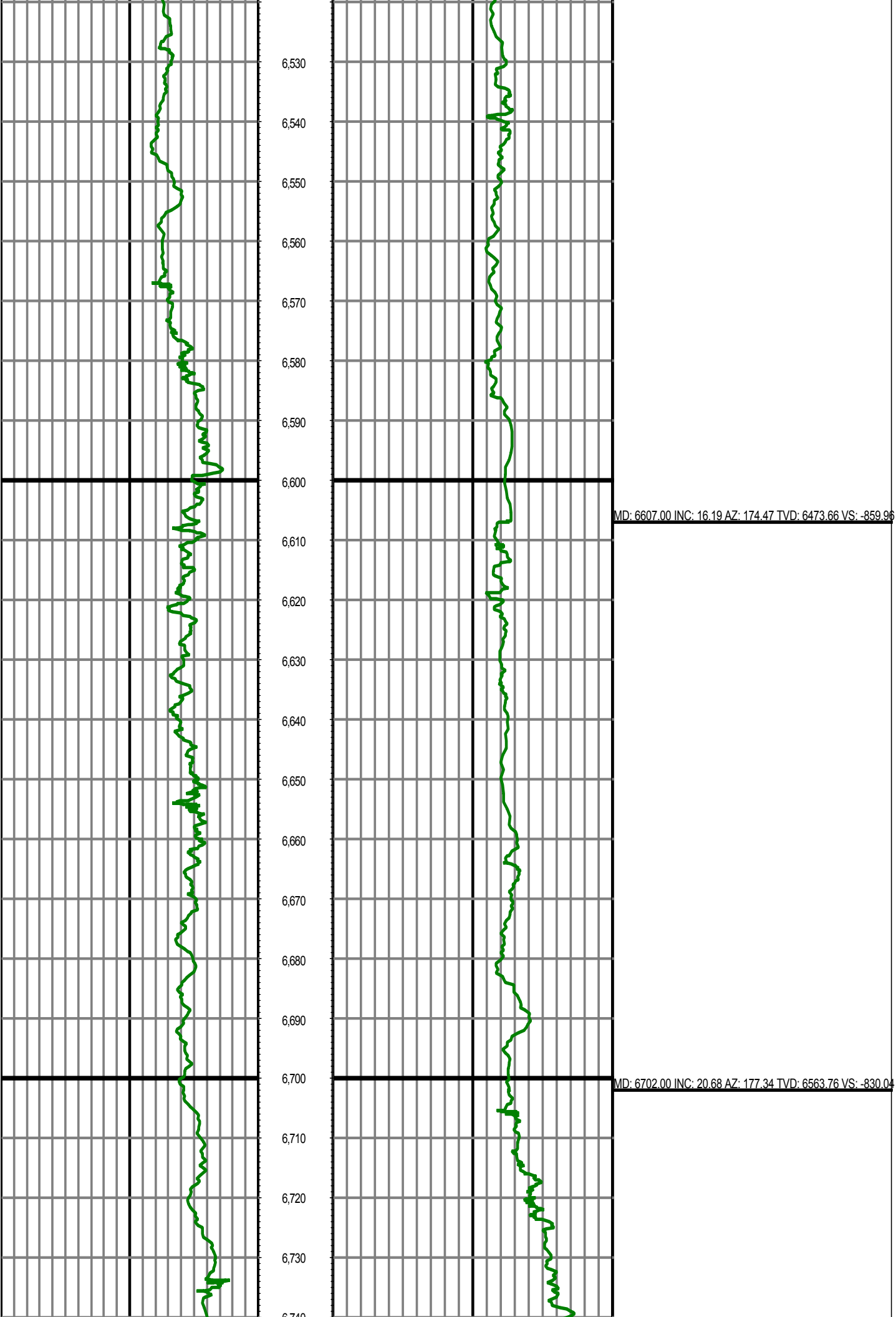
6,300

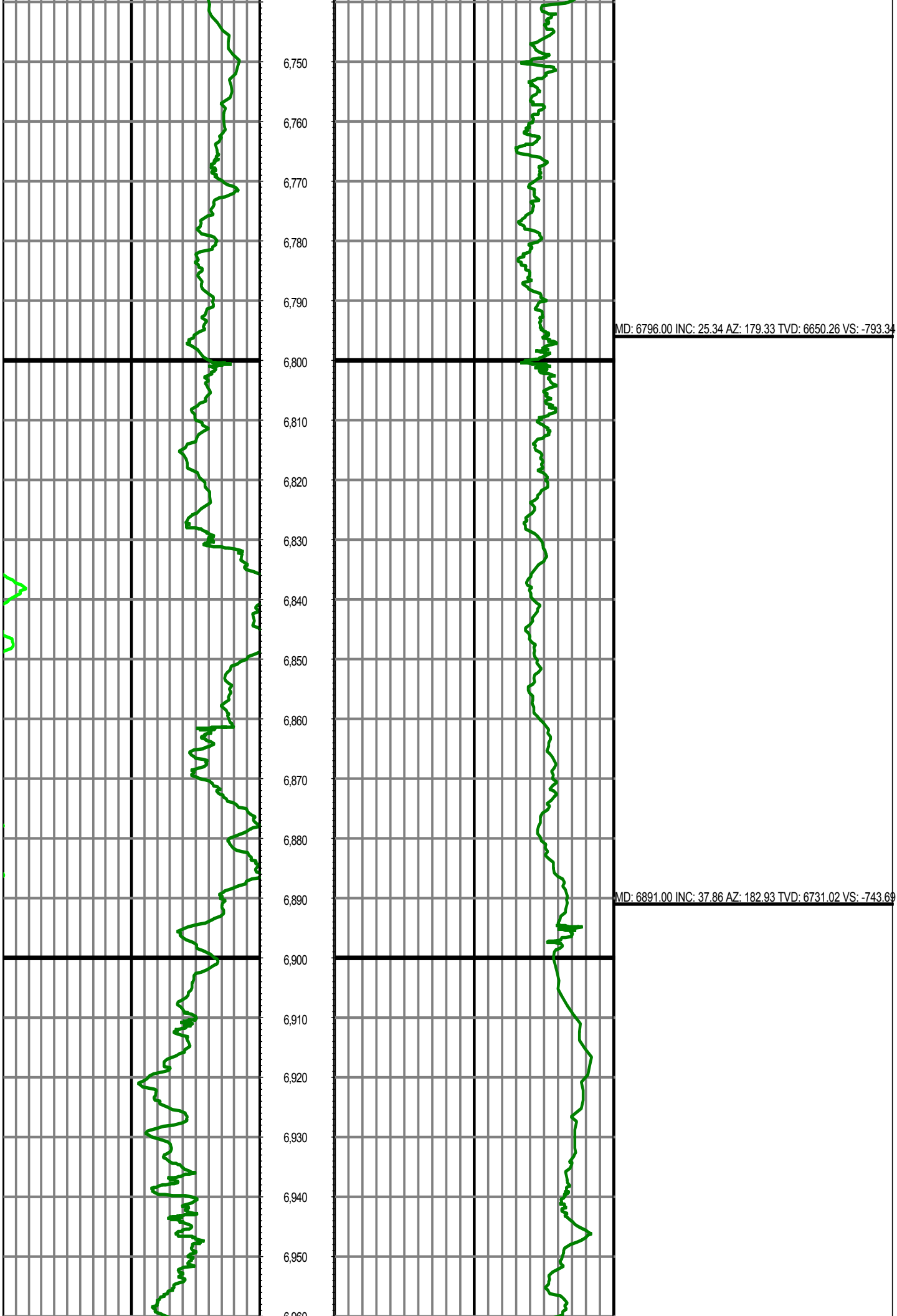


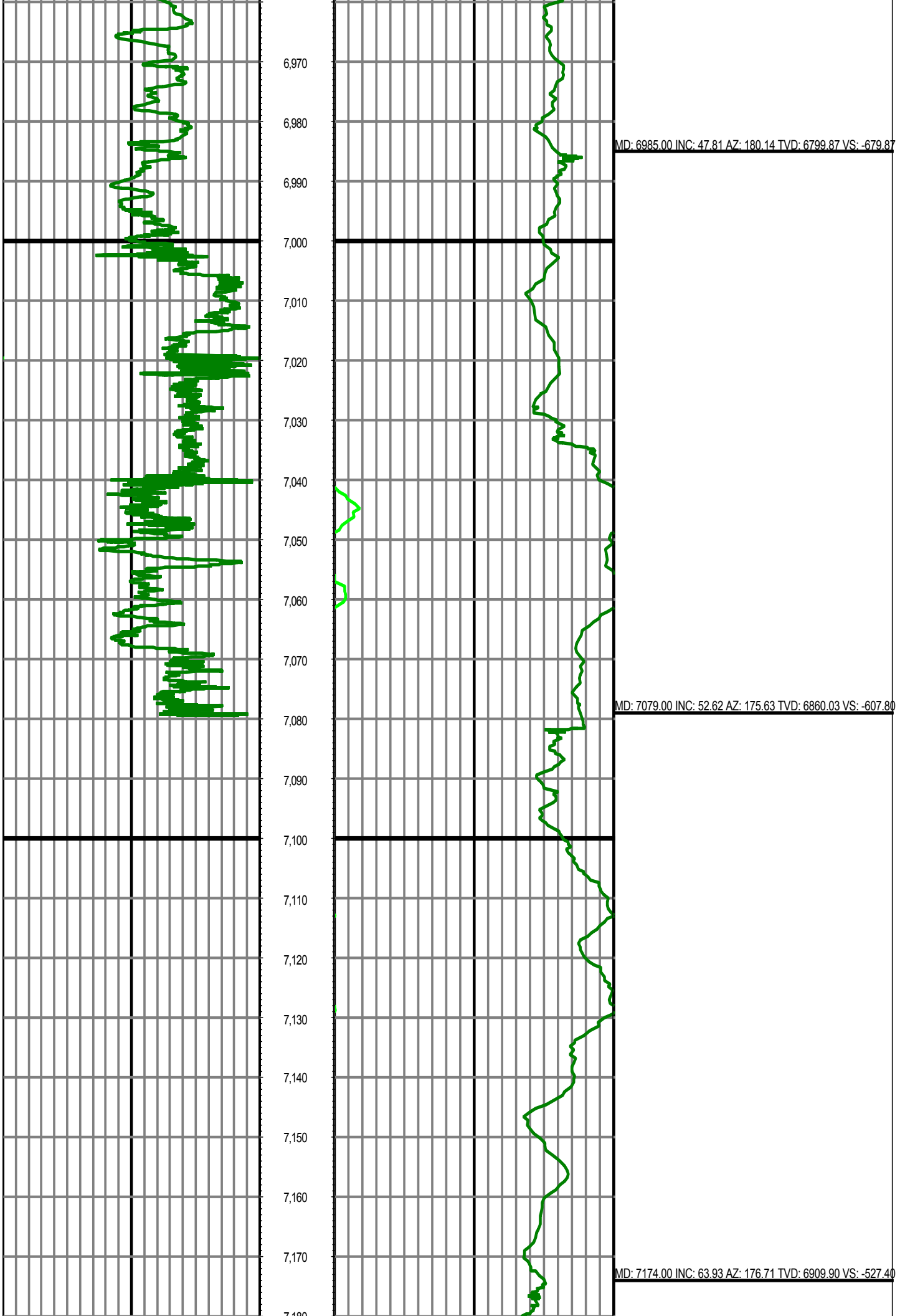
MD: 6135.00 INC: 0.63 AZ: 177.48 TVD: 6004.73 VS: -889.53

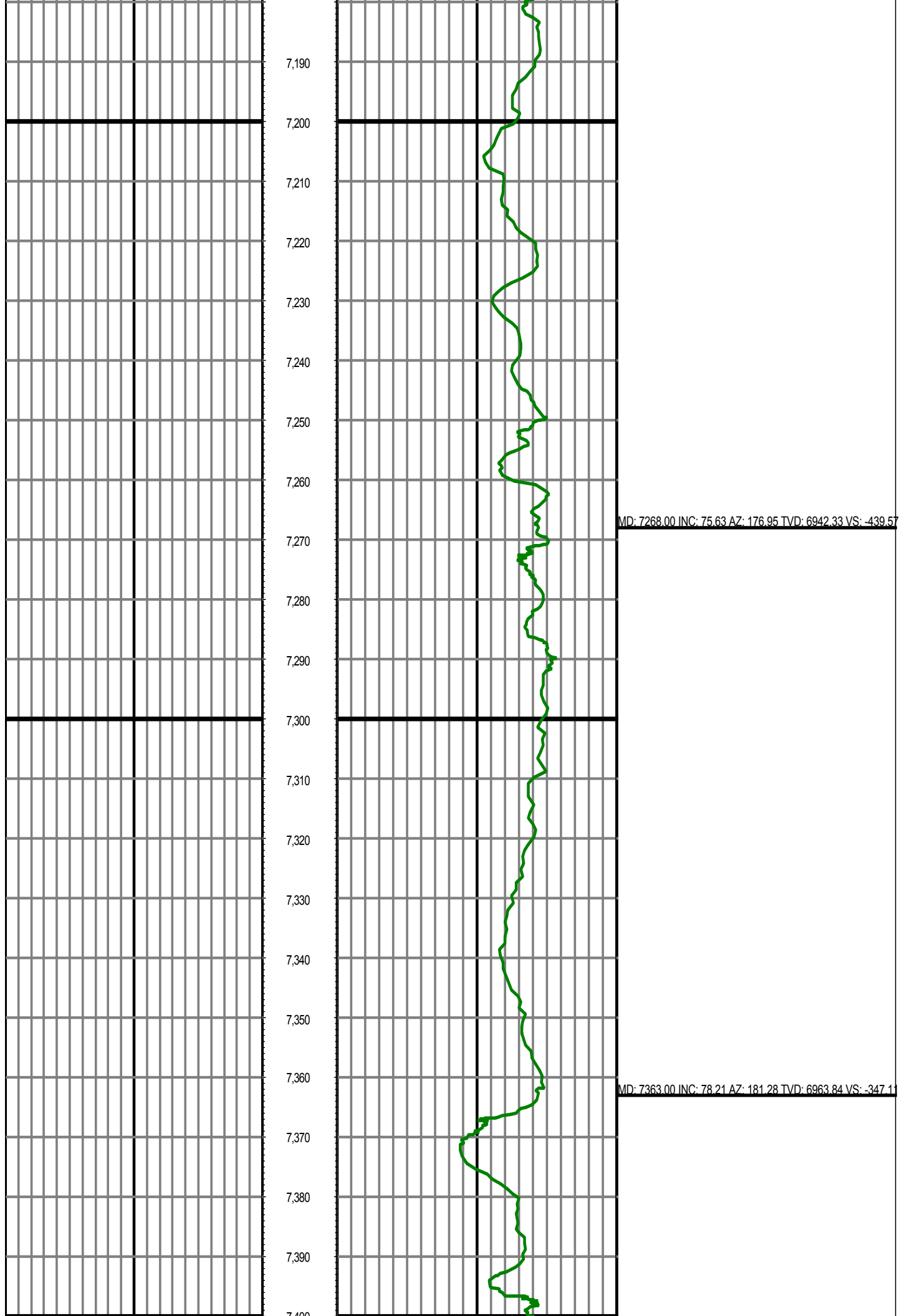
MD: 6229.00 INC: 0.17 AZ: 211.48 TVD: 6098.72 VS: -888.89

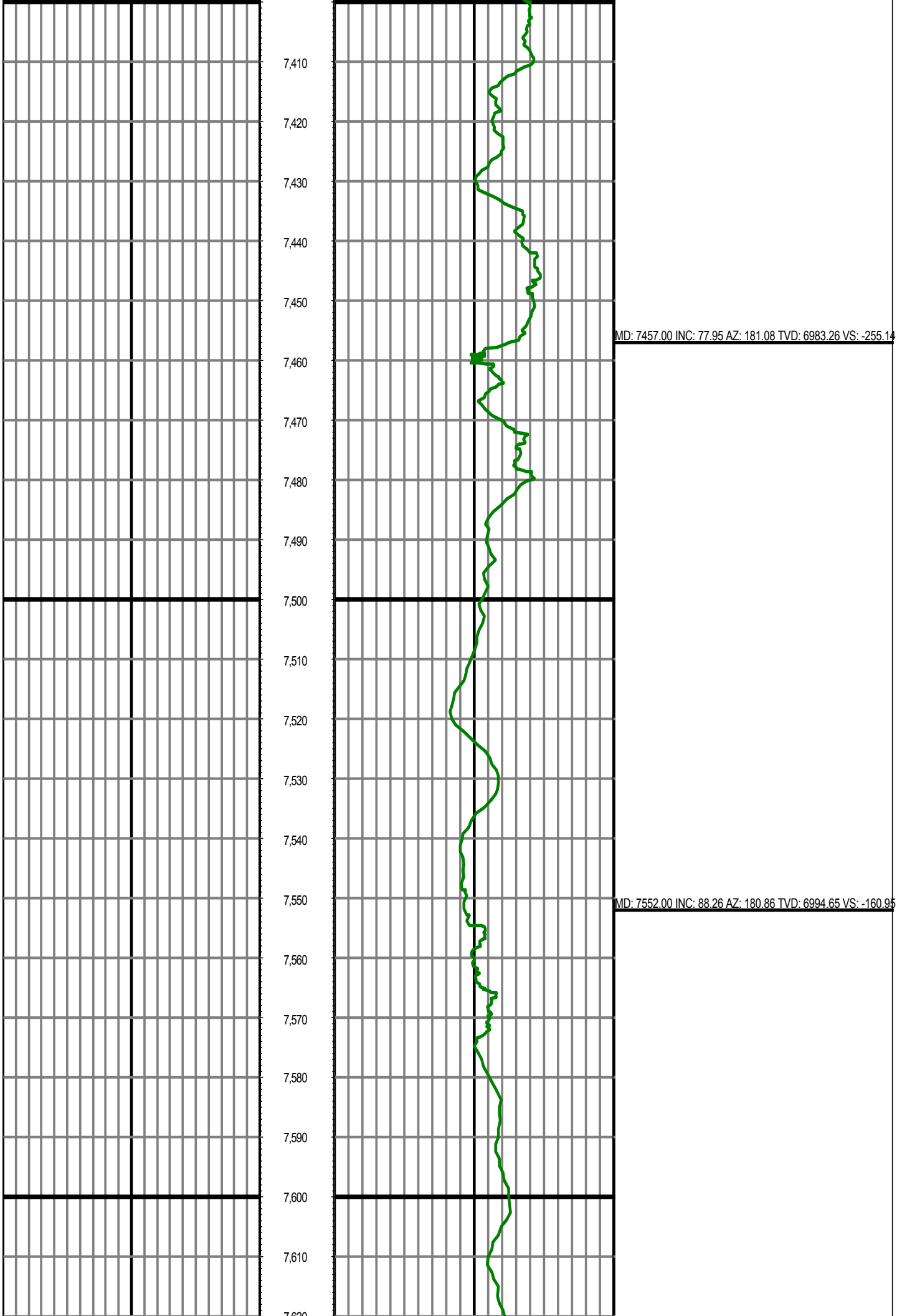


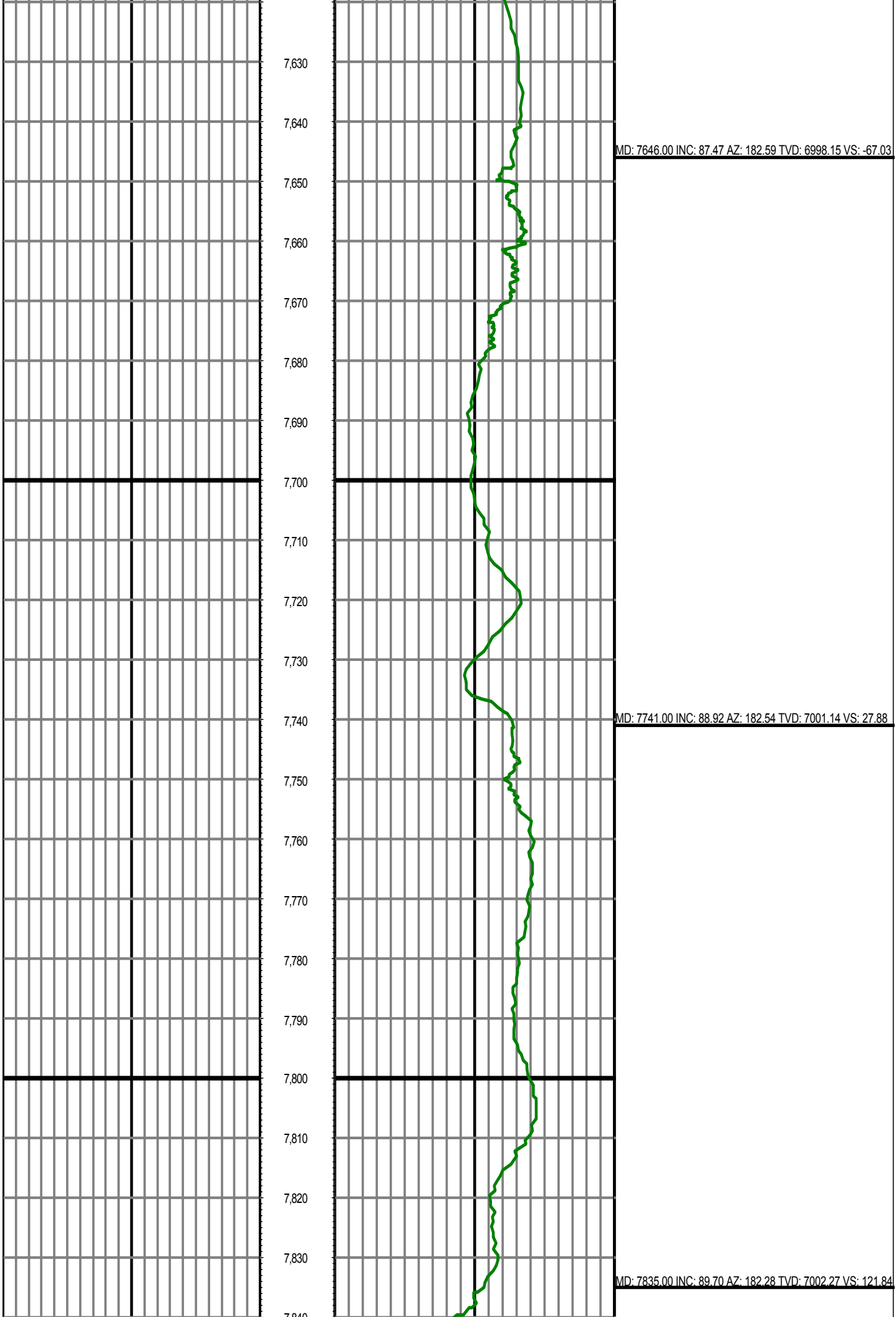


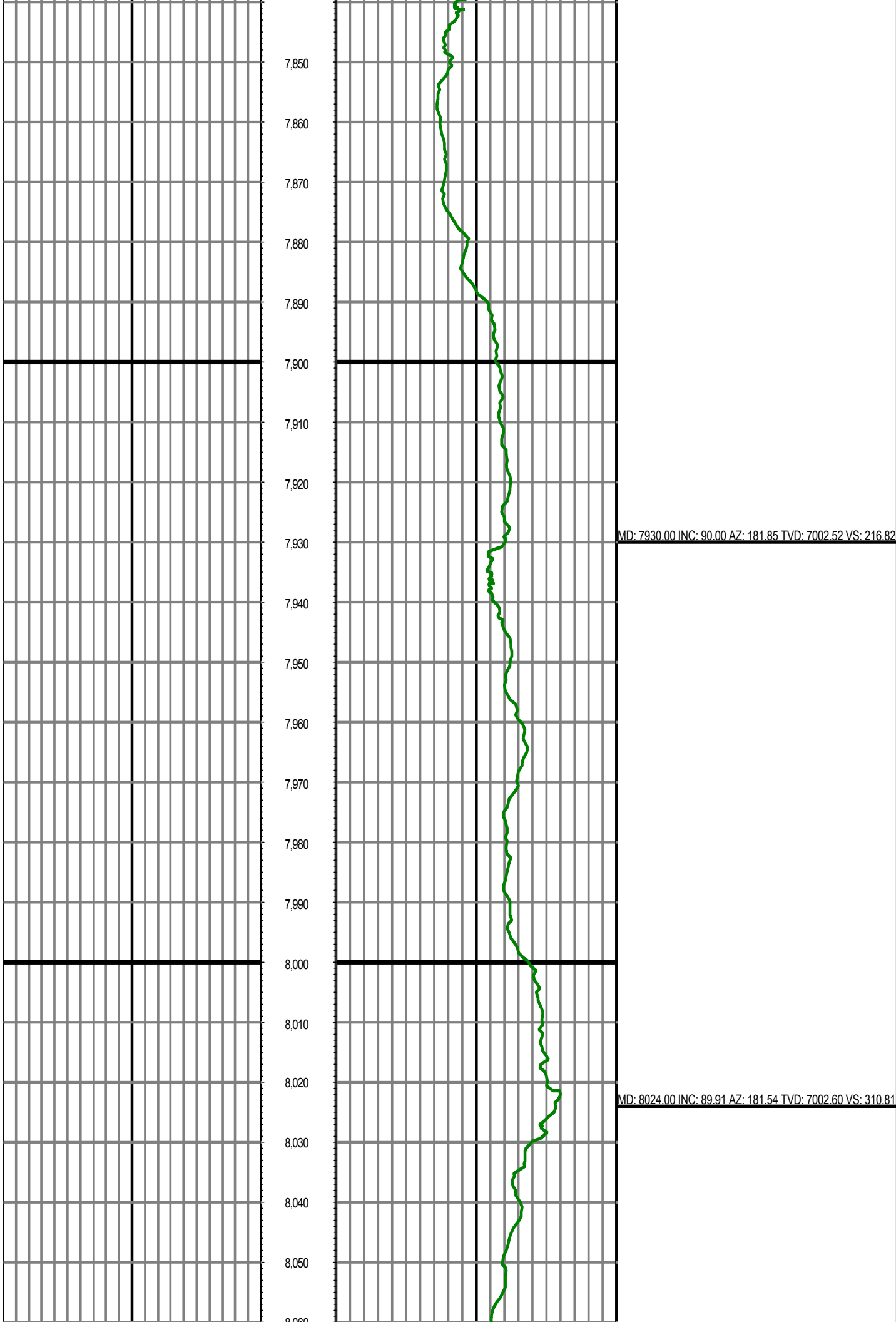


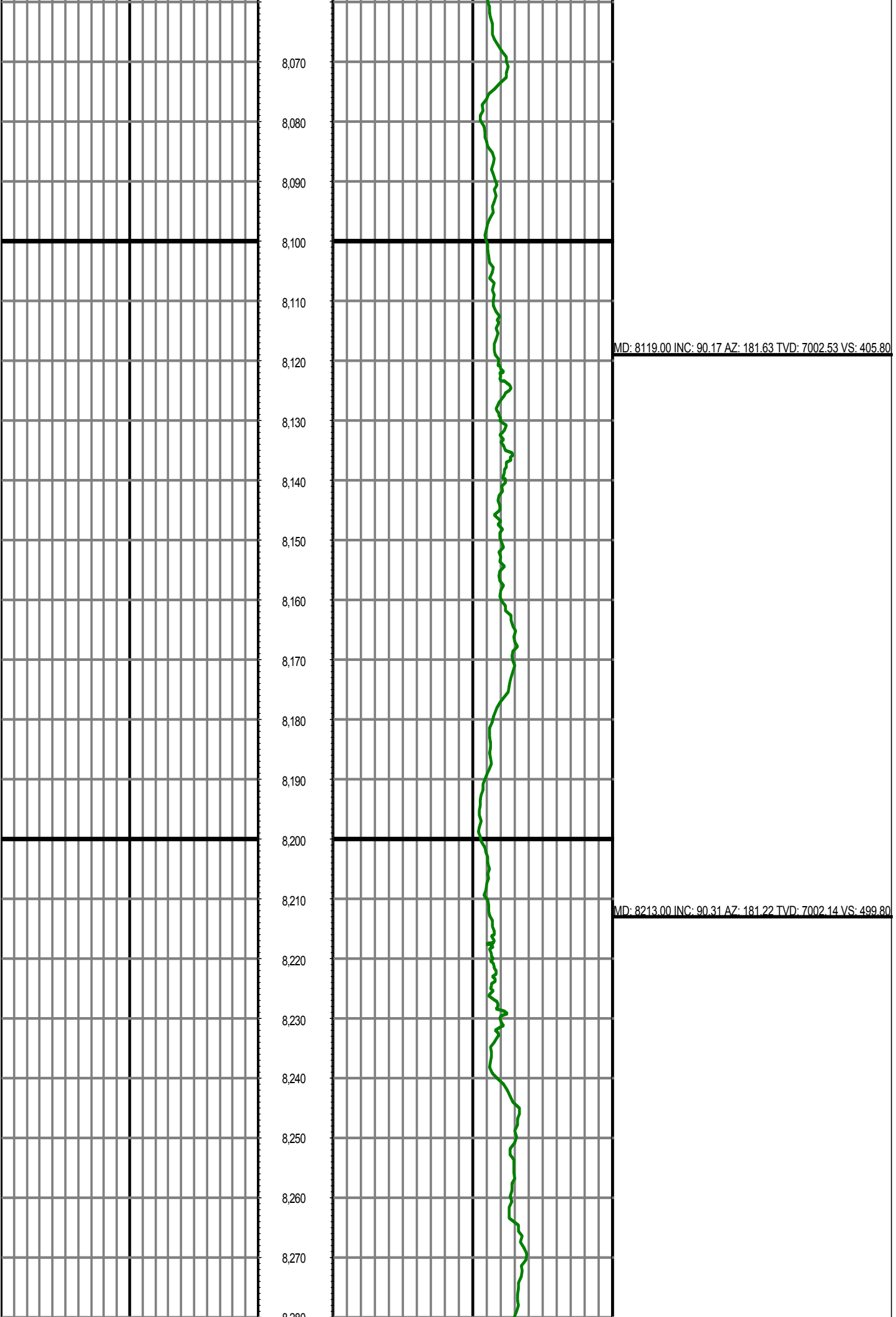


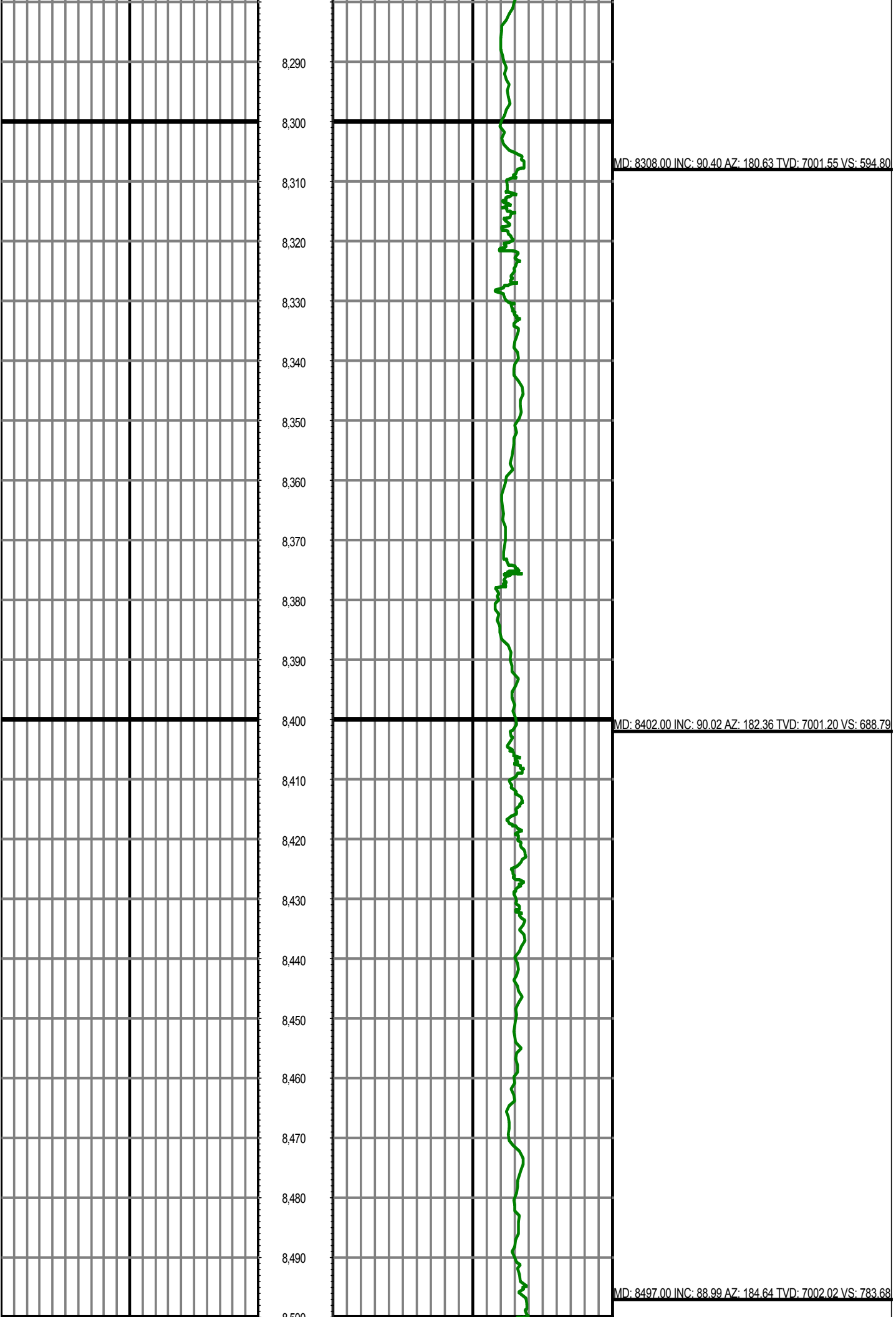


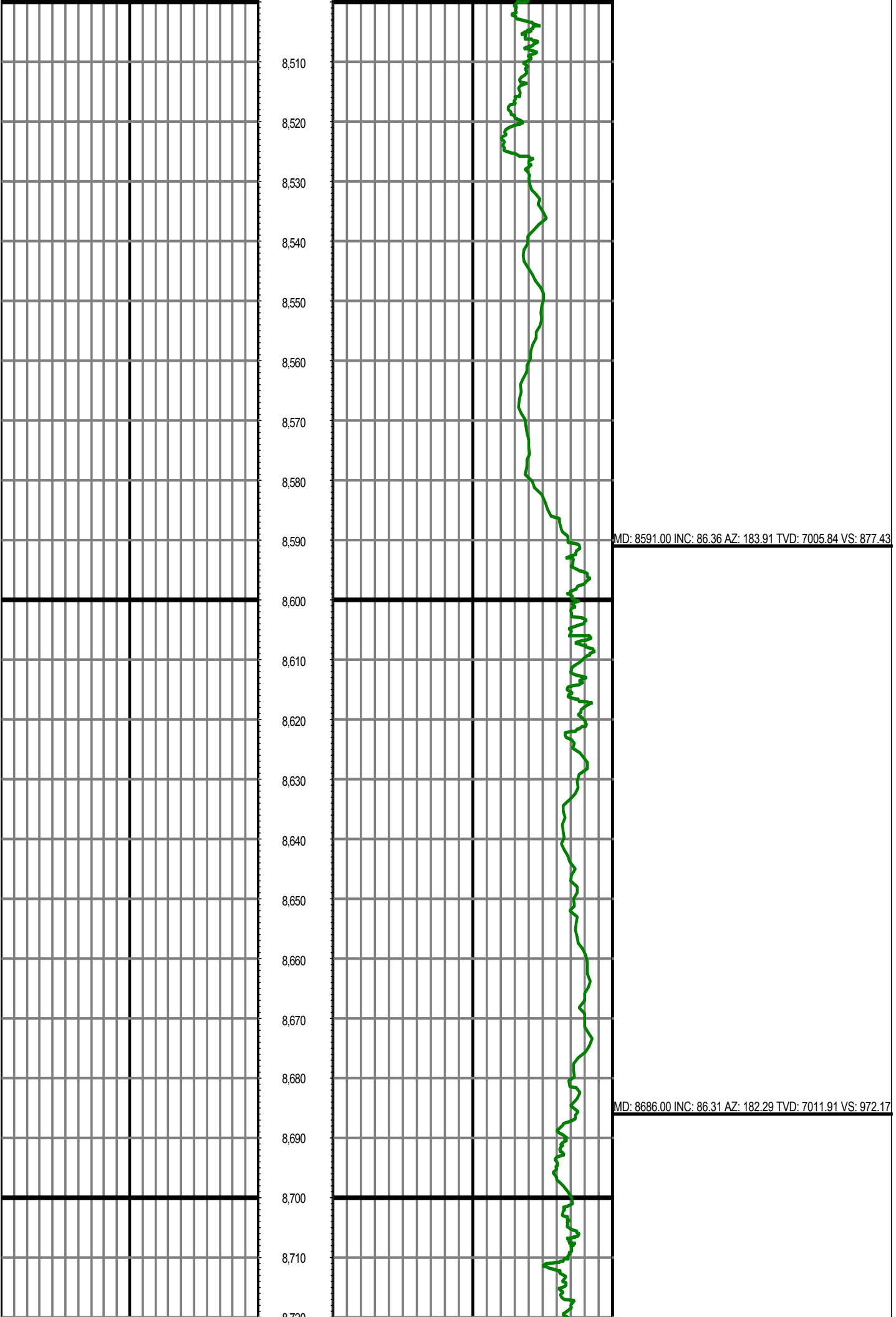


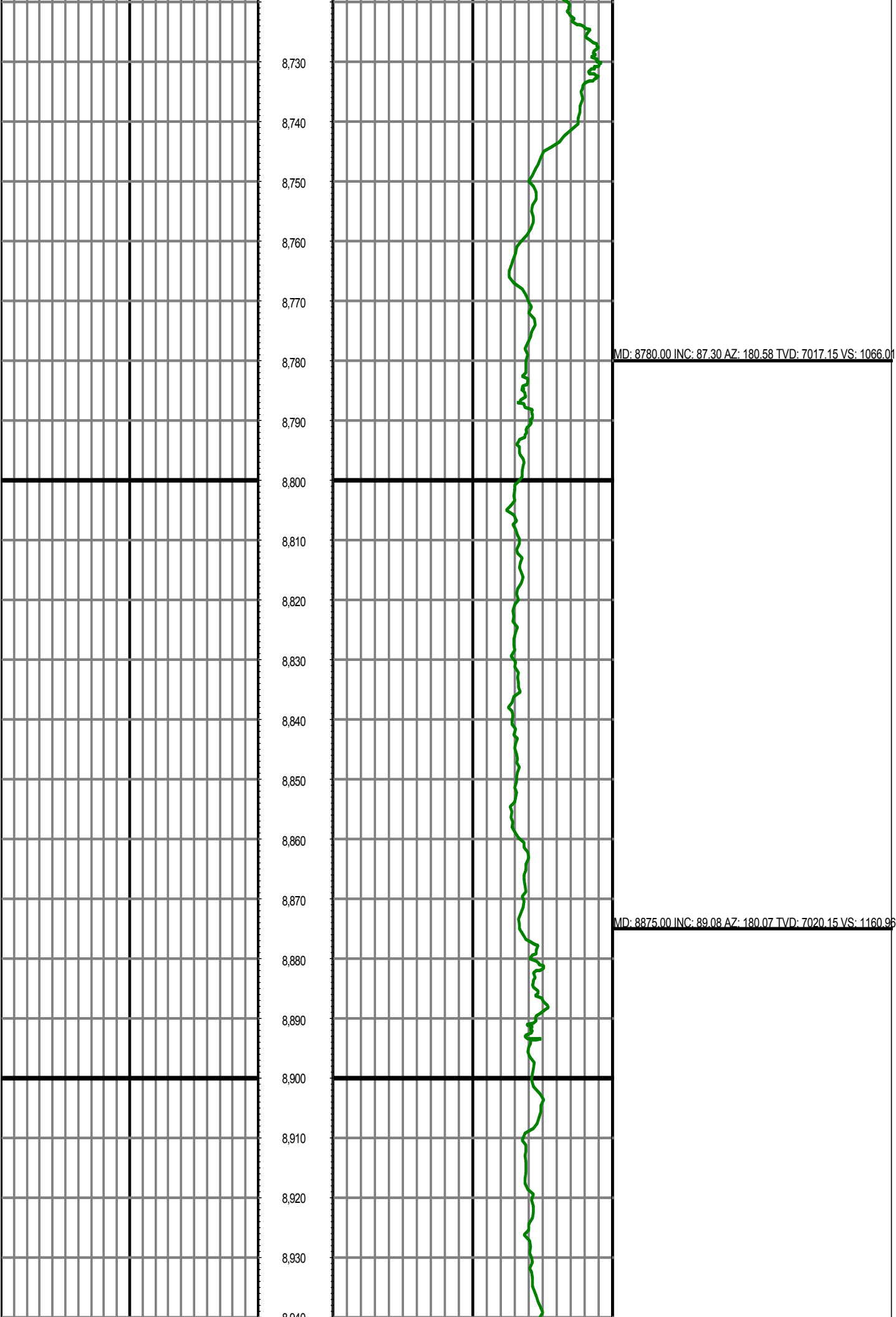


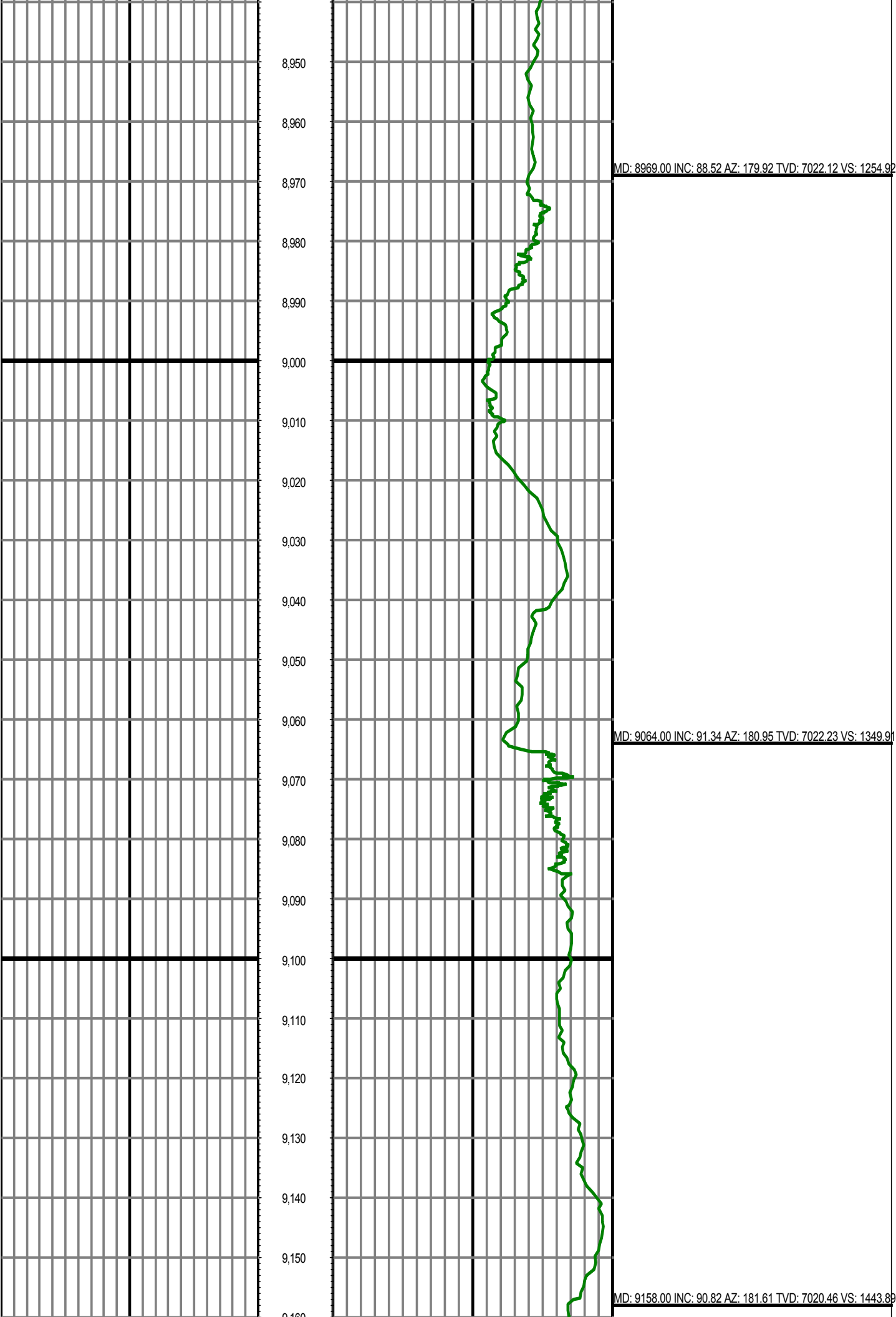


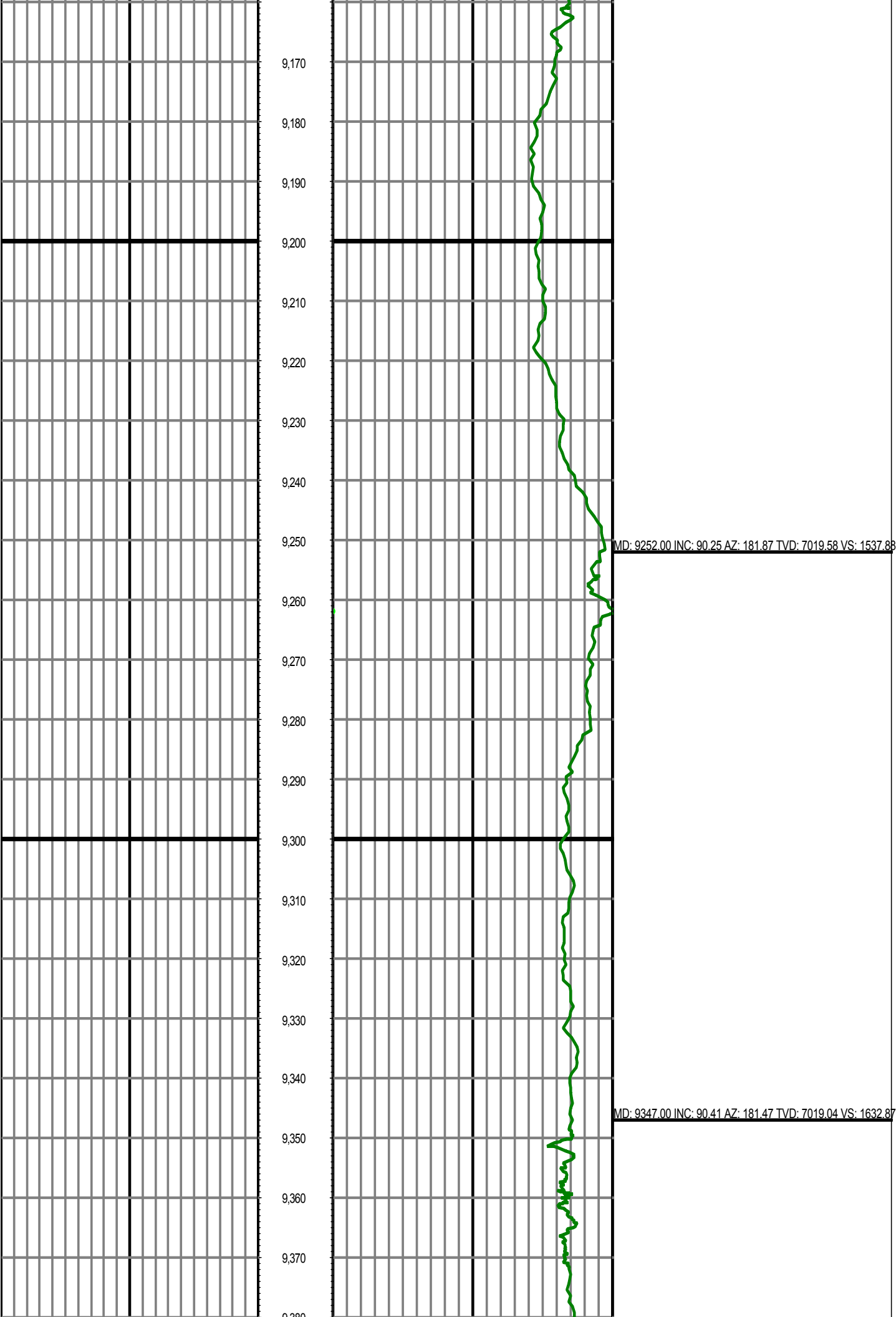


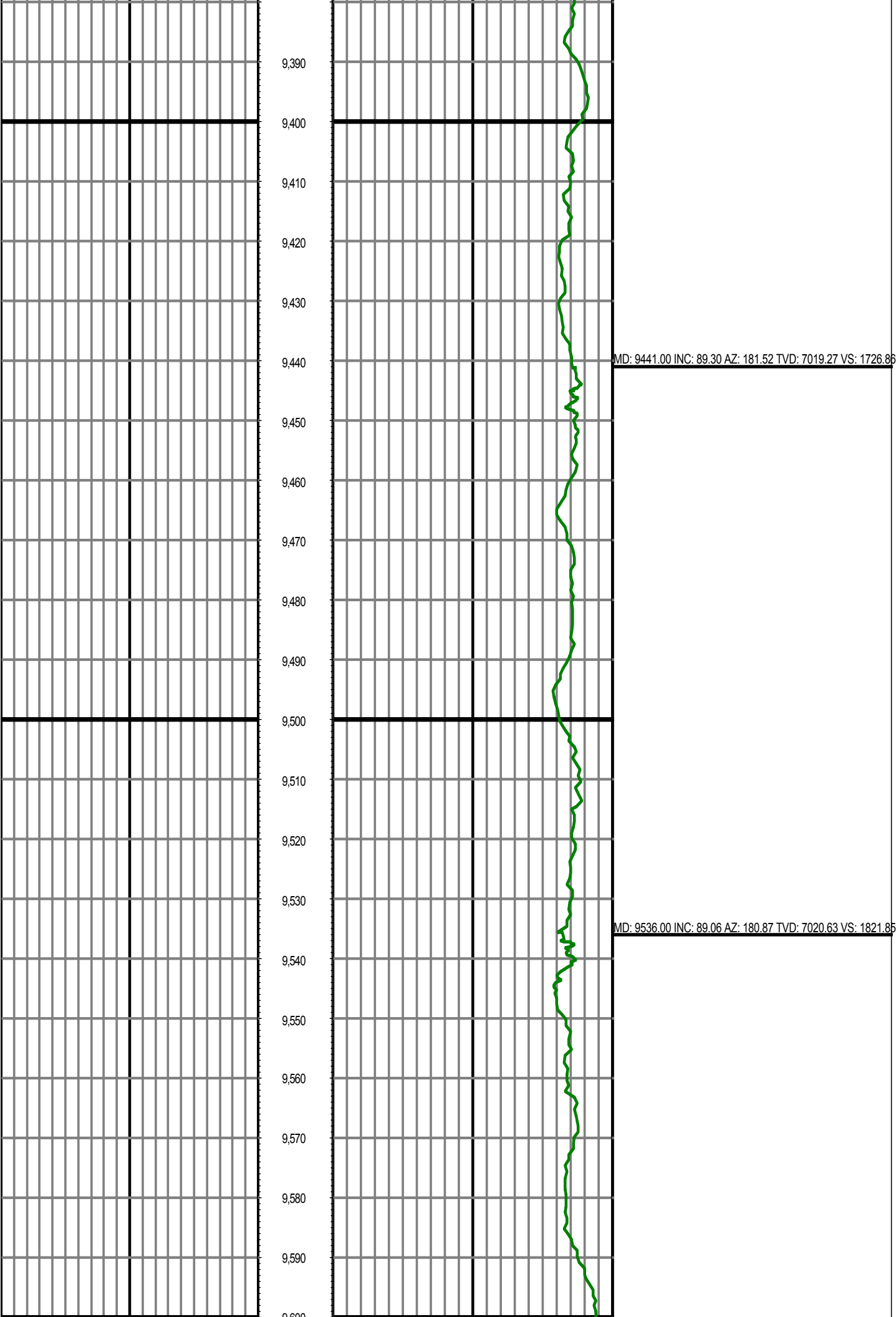


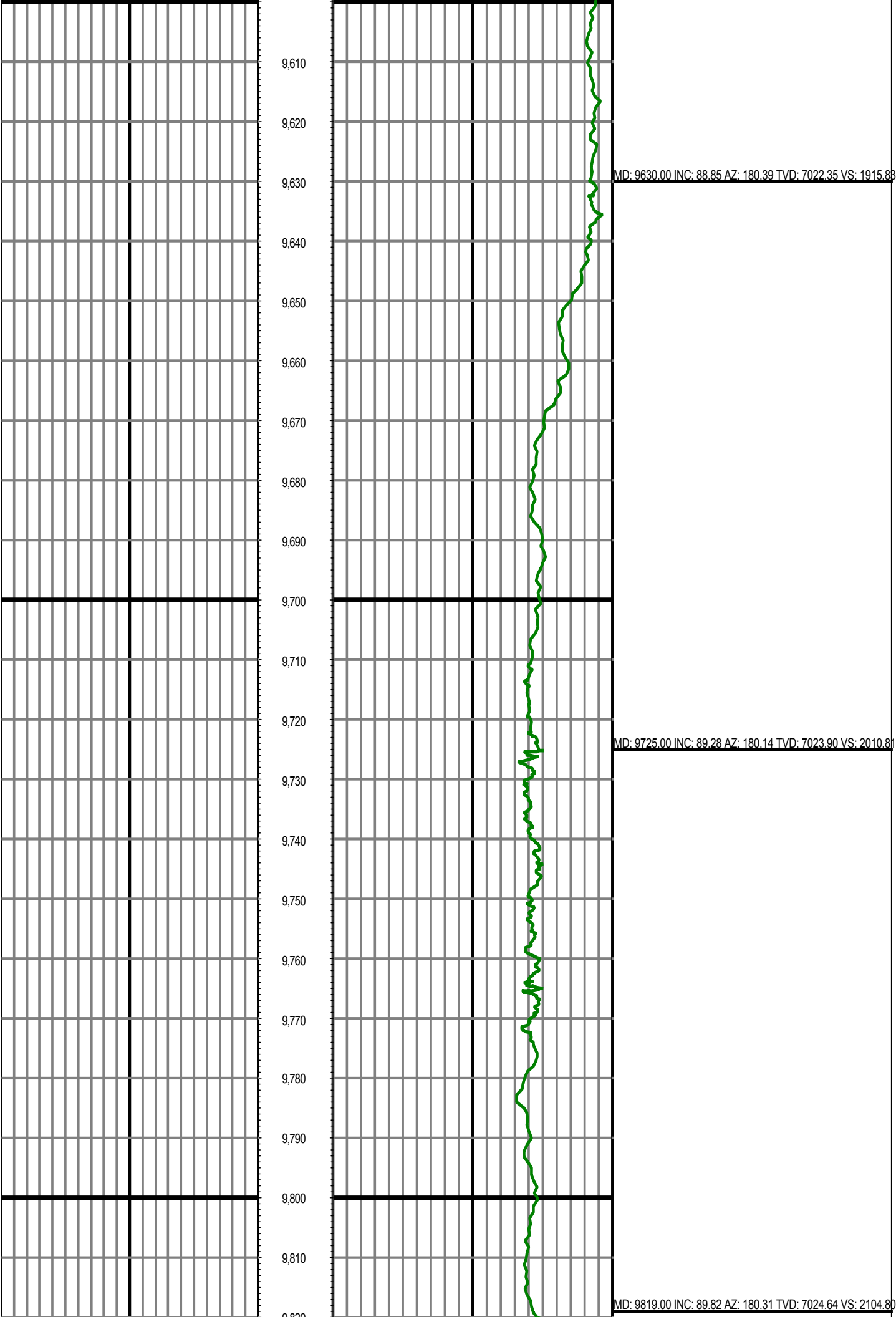


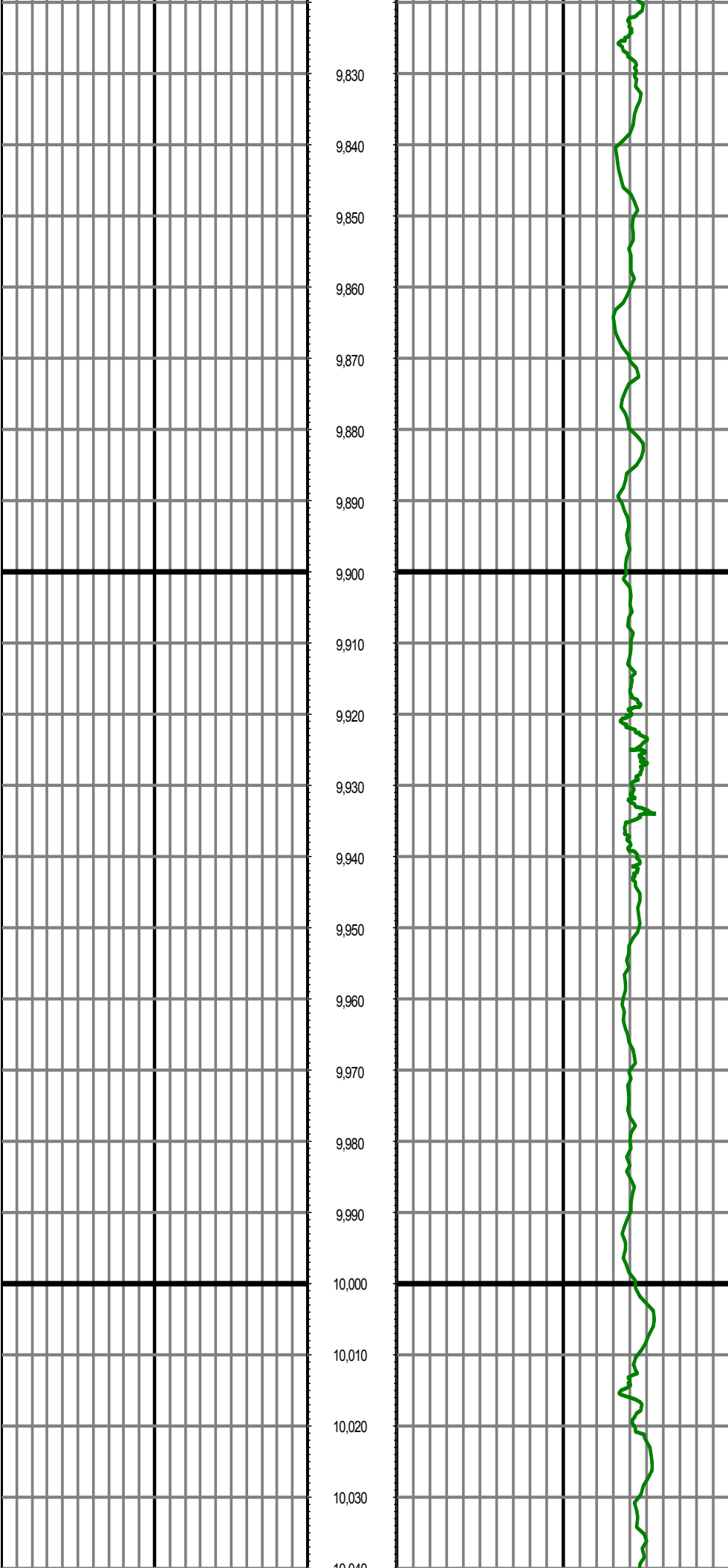












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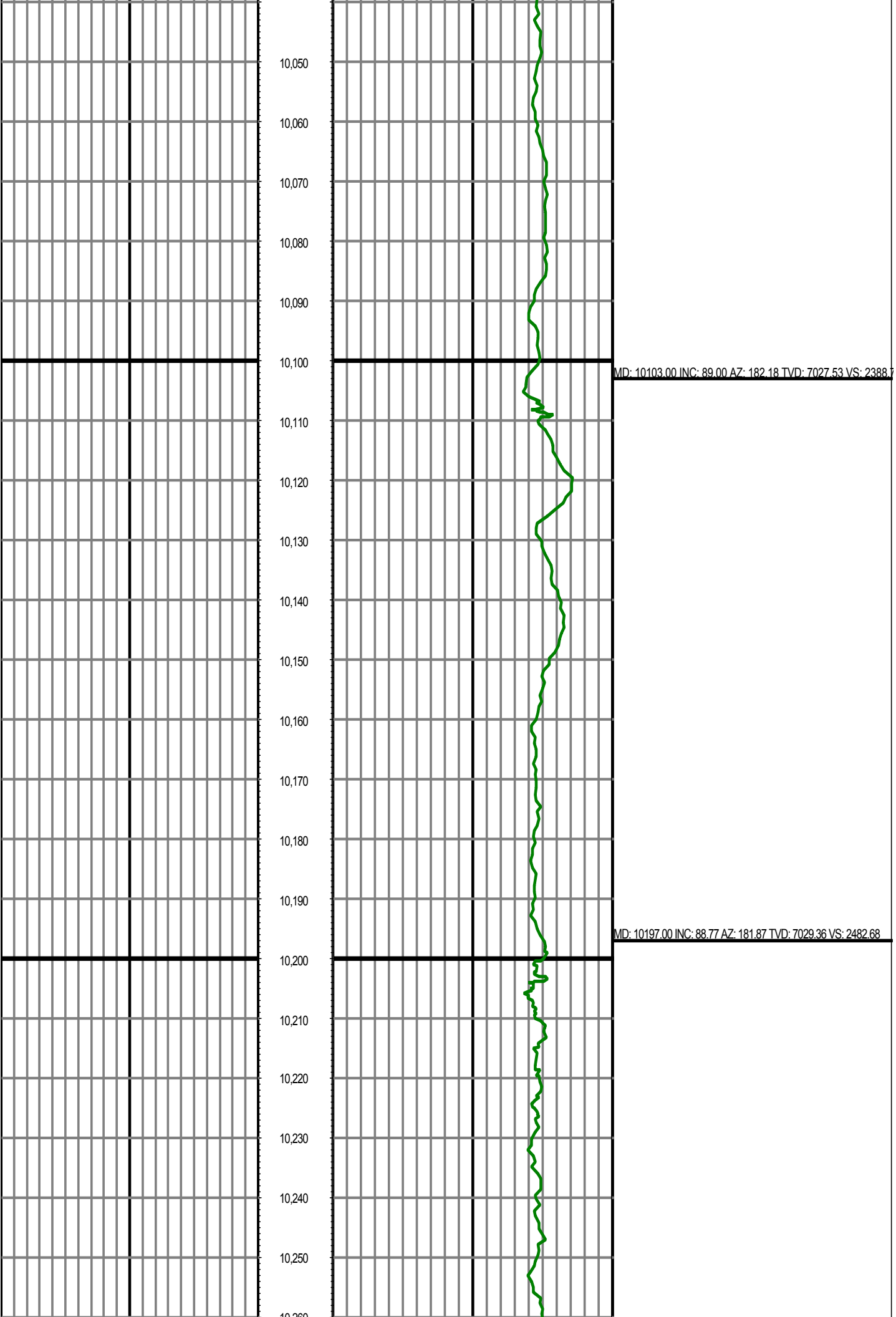
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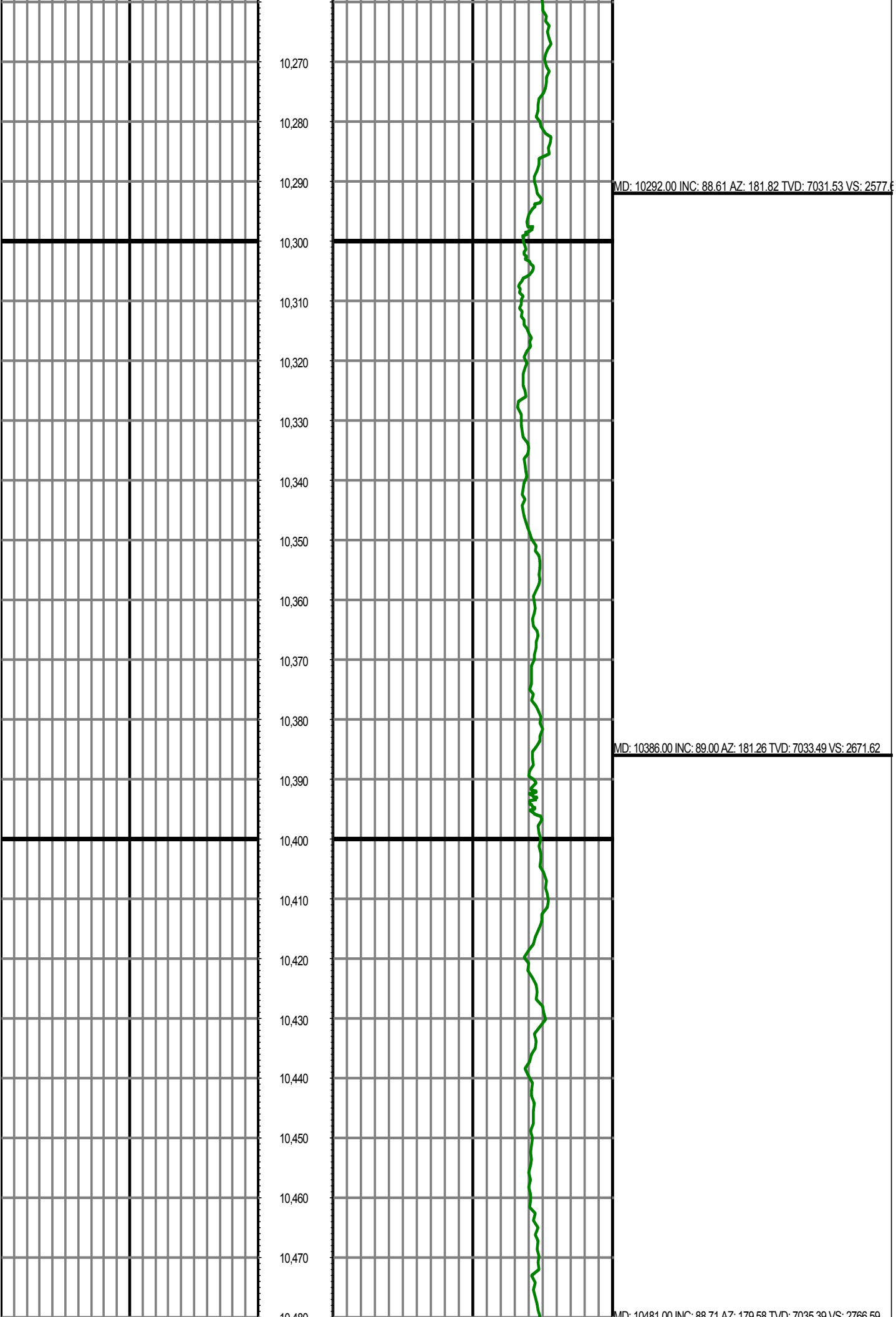
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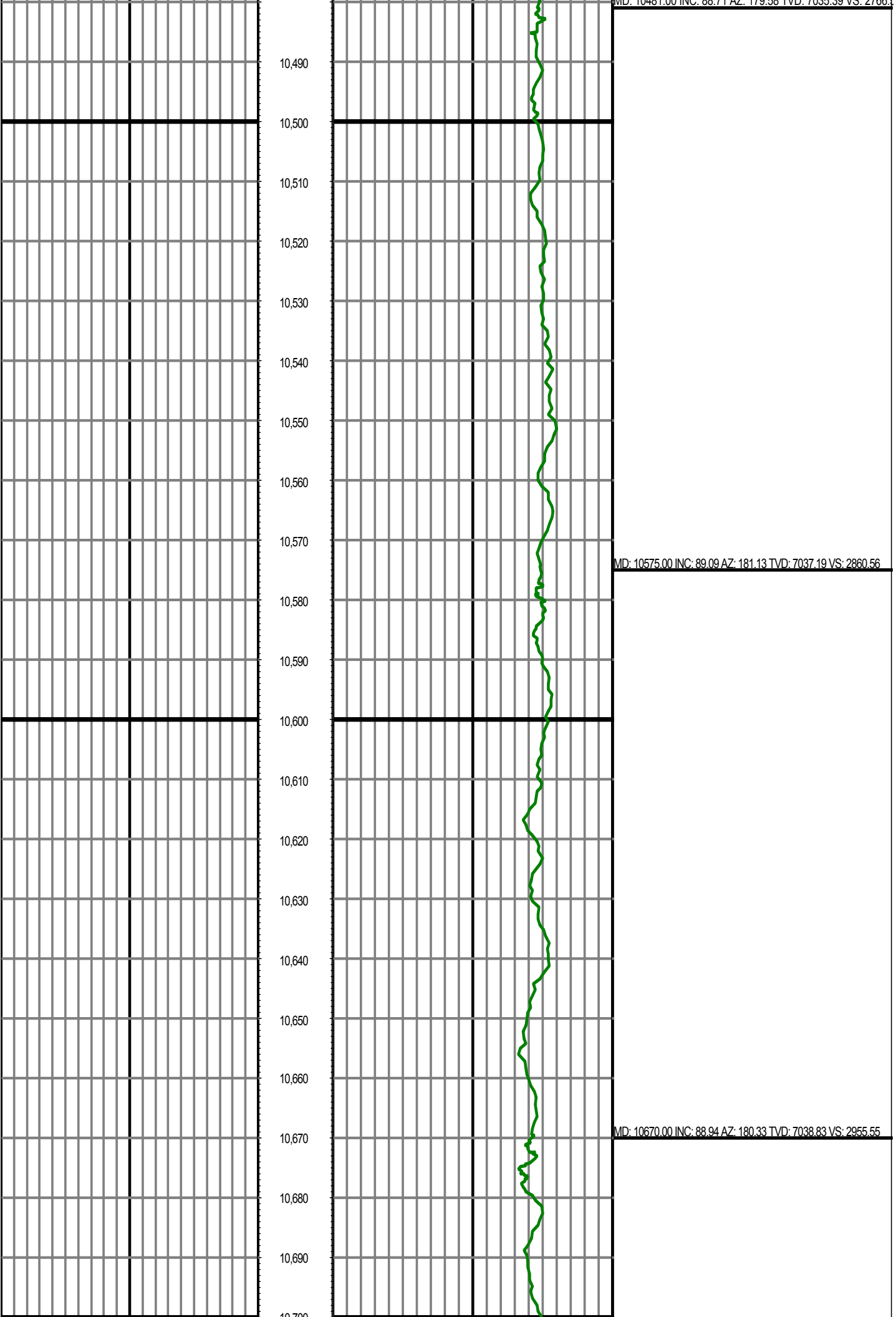
10,040

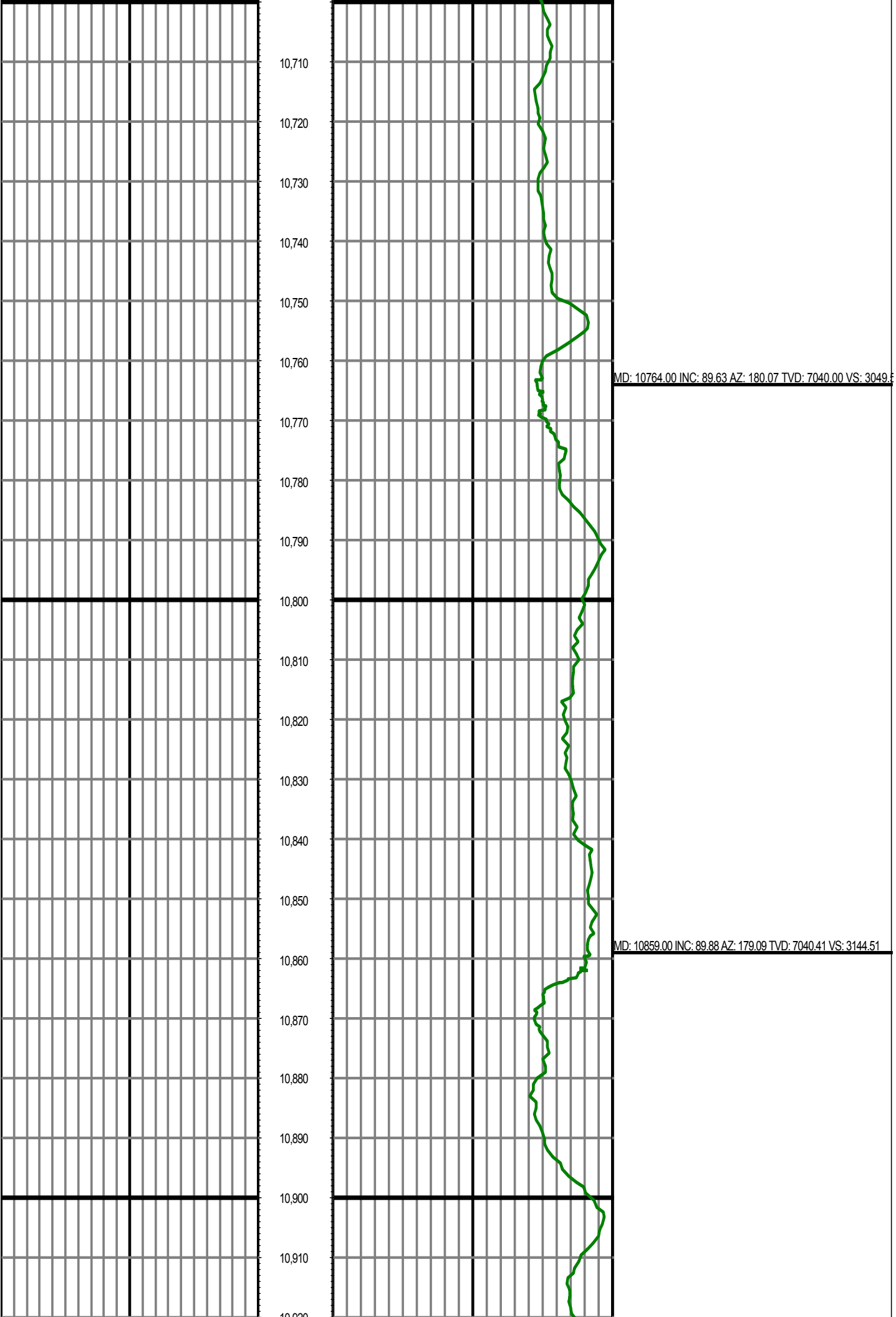
MD: 9914.00 INC: 90.03 AZ: 181.96 TVD: 7024.76 VS: 2199.80

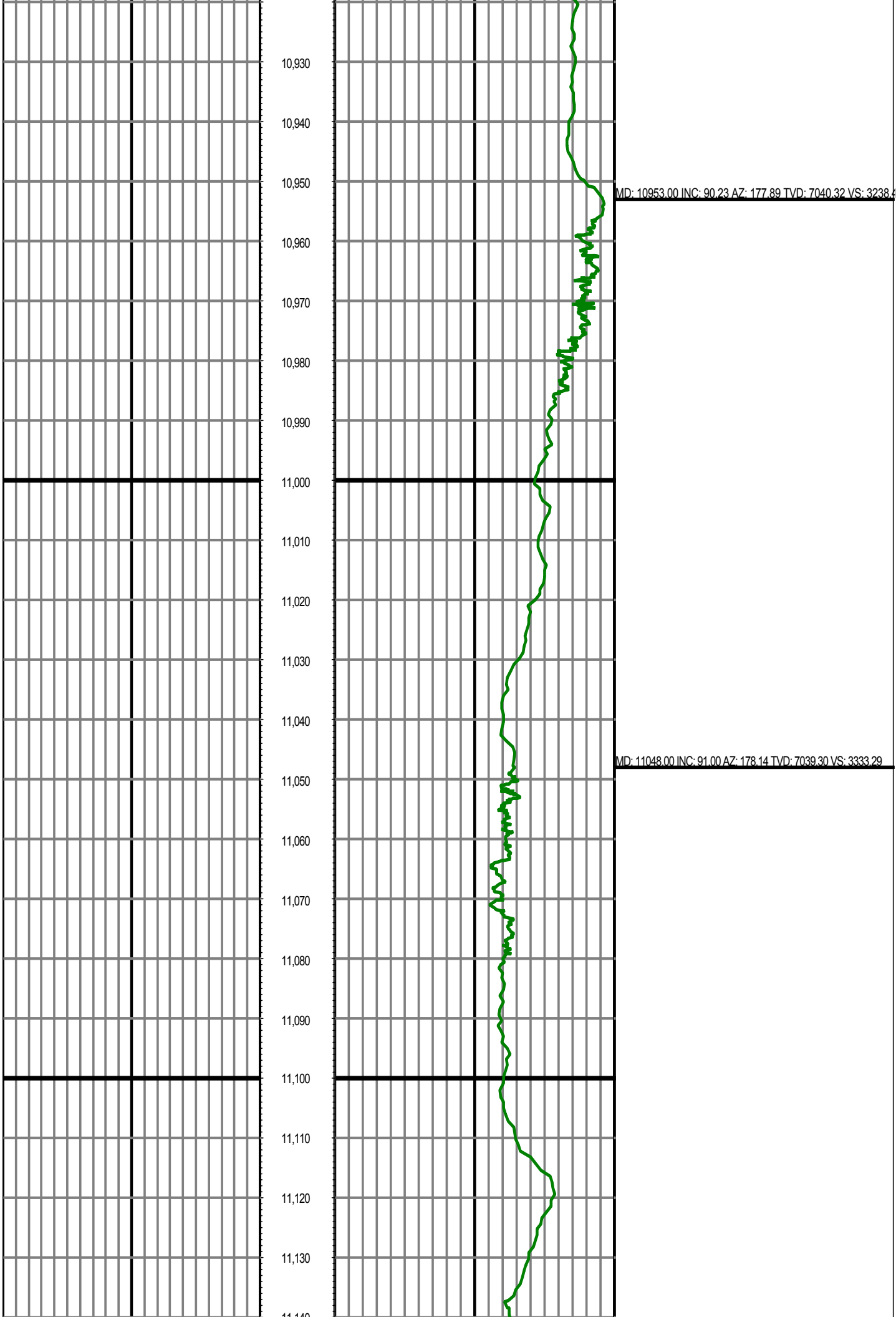
MD: 10008.00 INC: 88.81 AZ: 182.59 TVD: 7025.71 VS: 2293.7

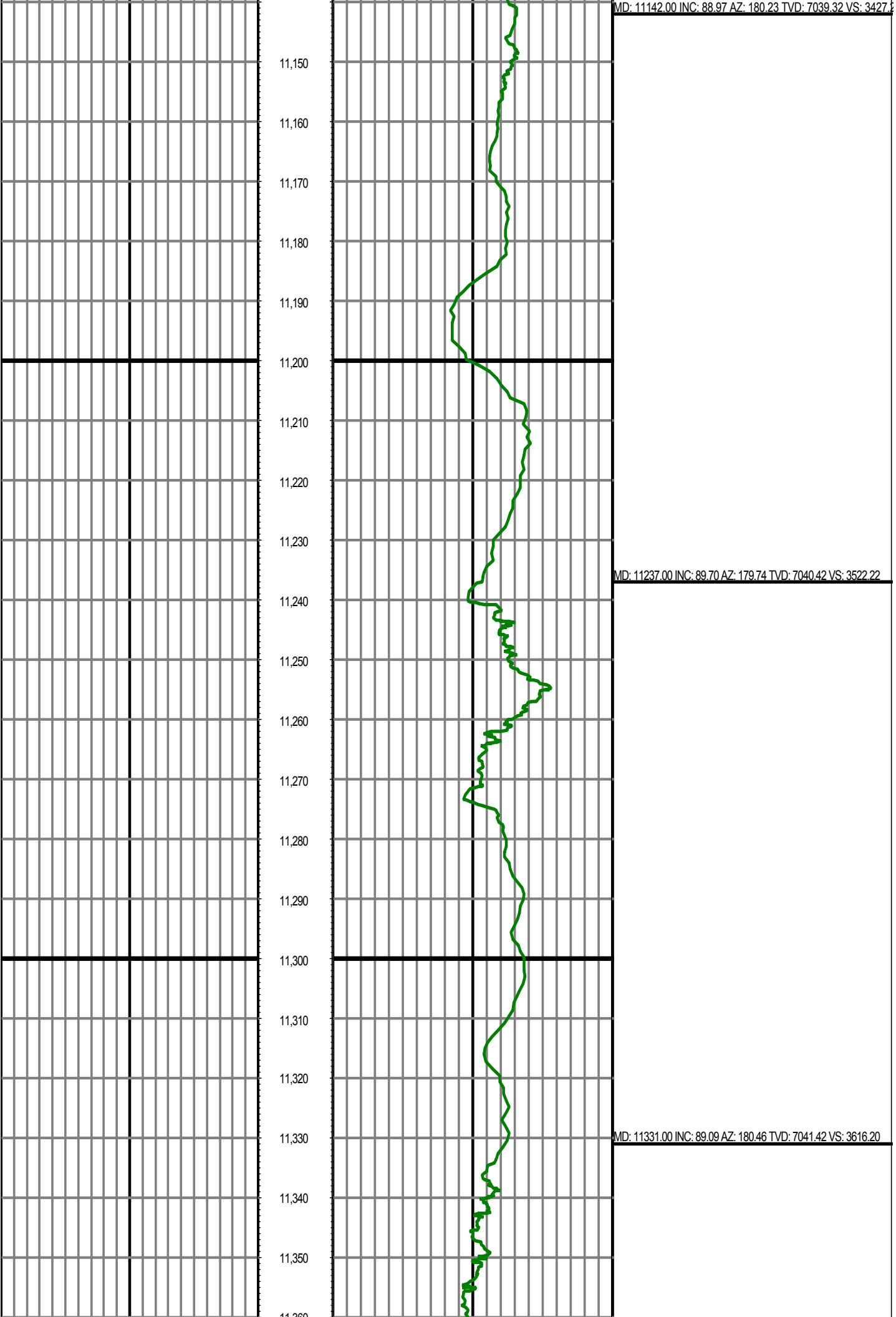


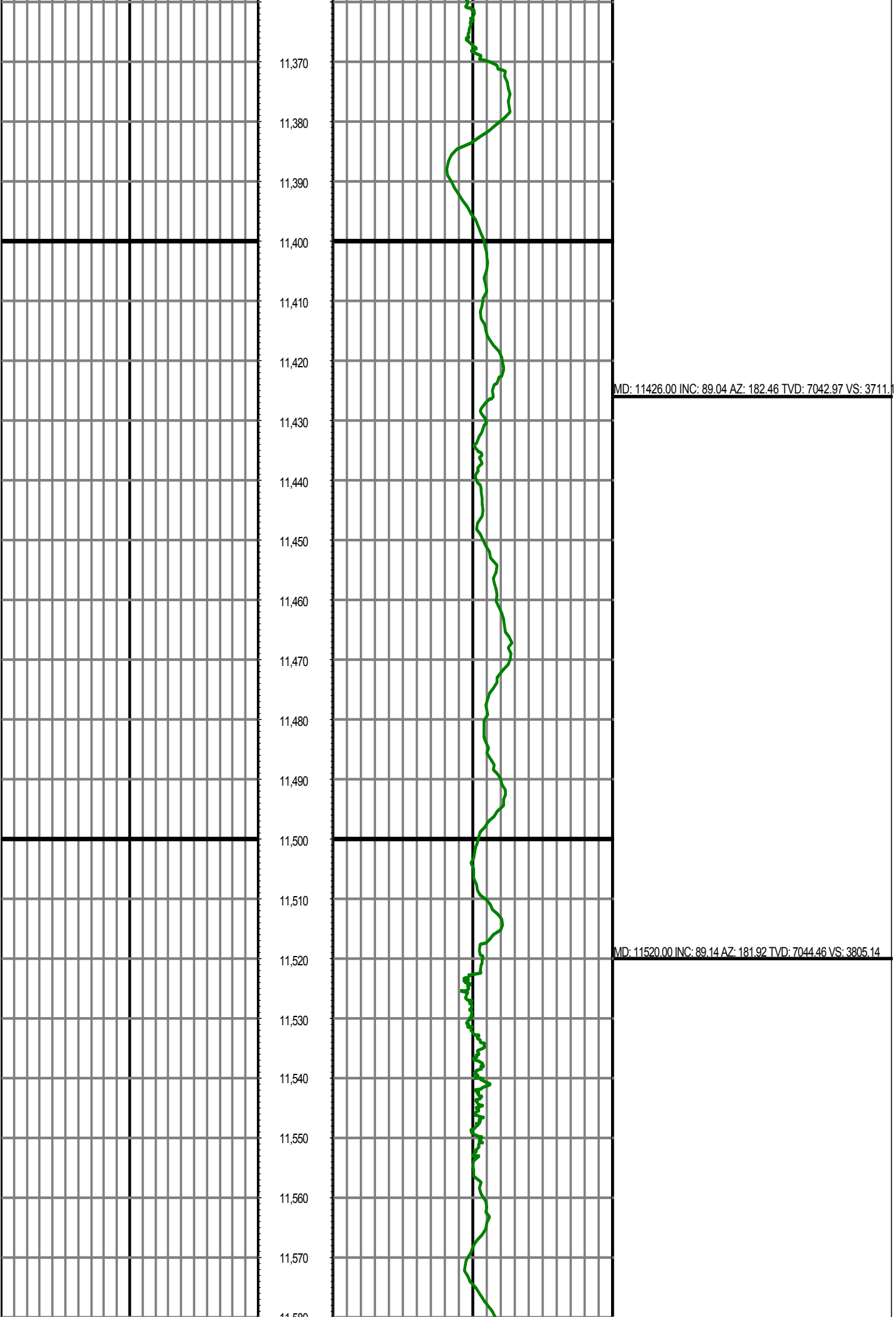


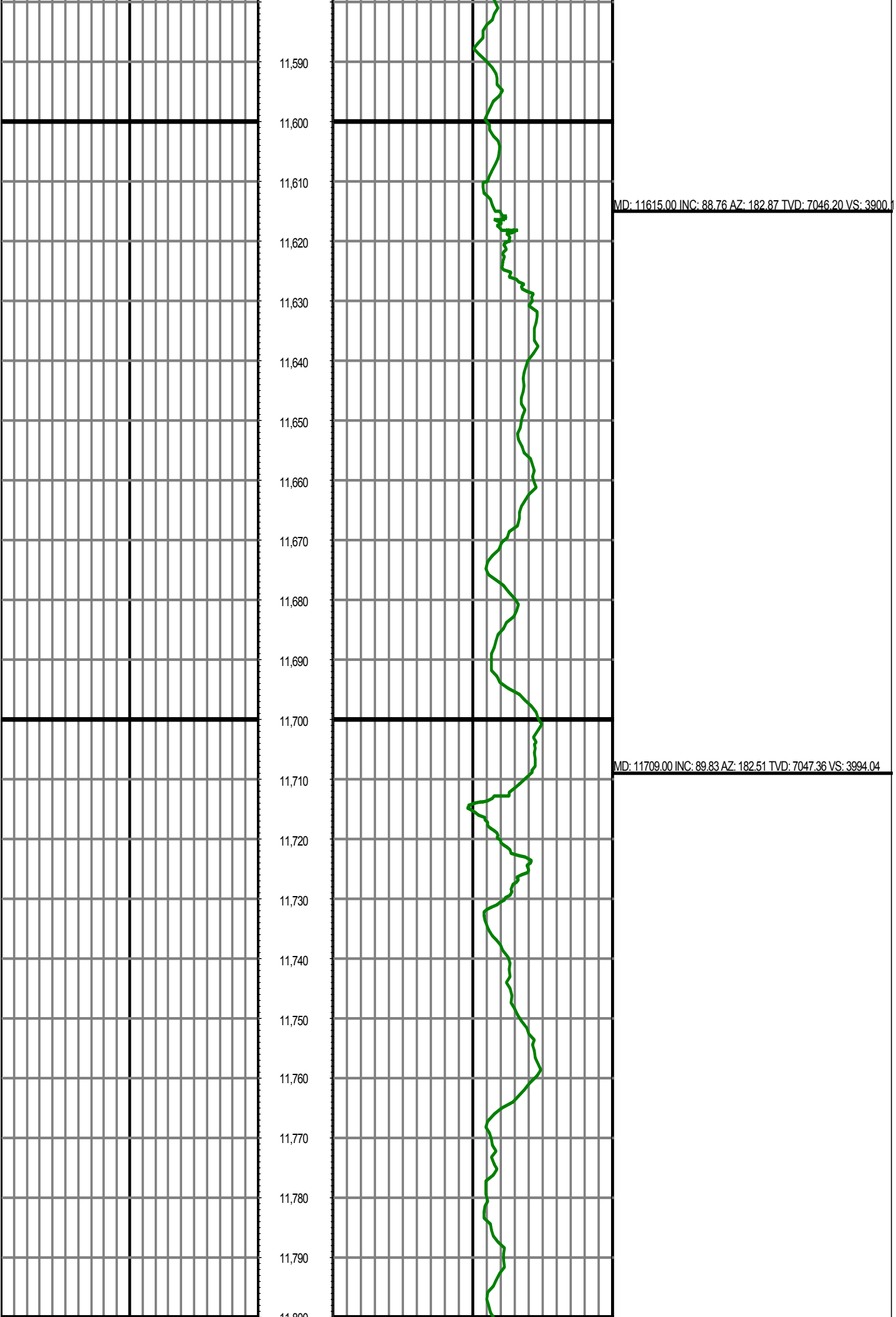








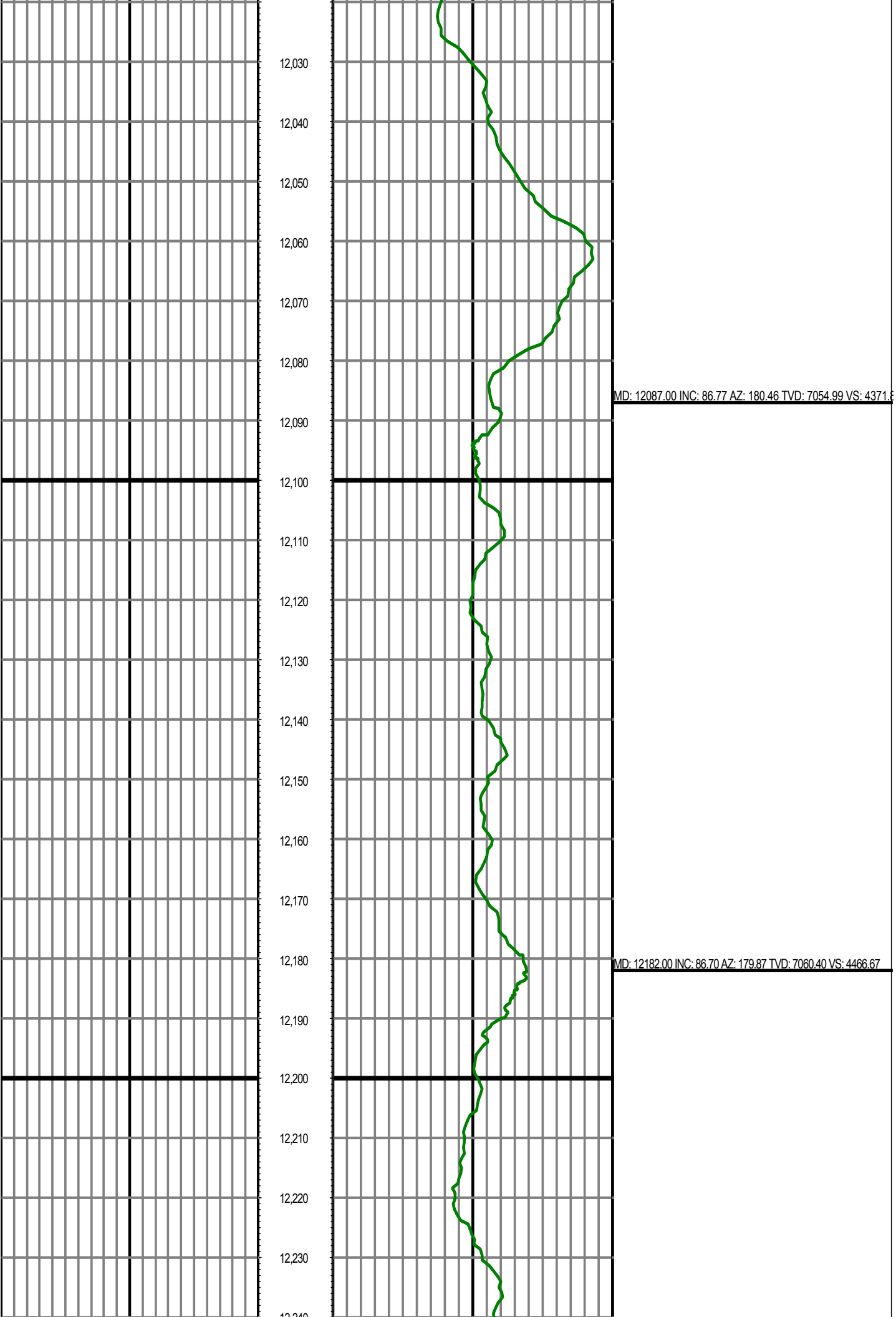


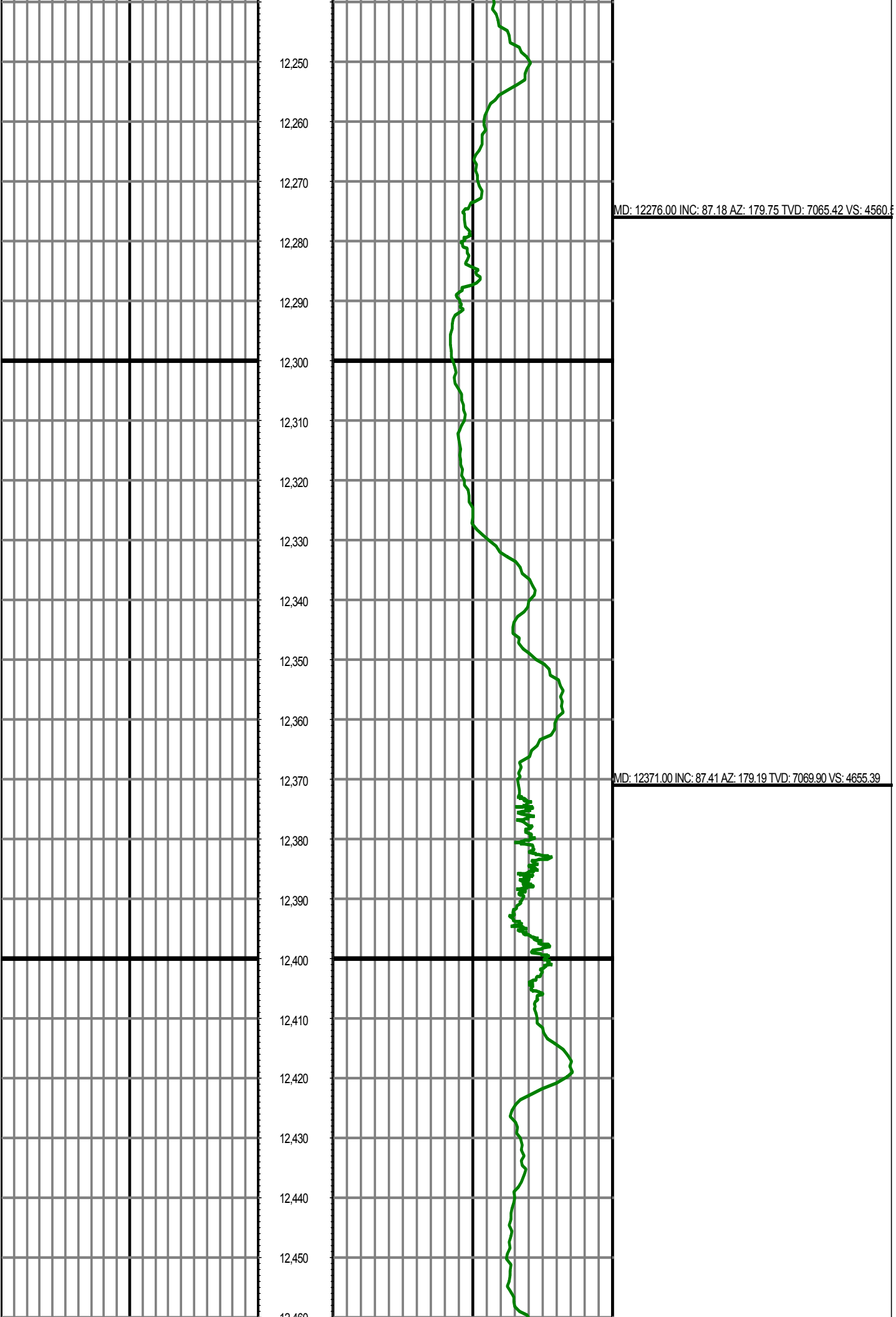


MD: 11804.00 INC: 90.11 AZ: 181.92 TVD: 7047.41 VS: 4089.0

MD: 11898.00 INC: 89.76 AZ: 181.12 TVD: 7047.51 VS: 4183.01

MD: 11993.00 INC: 87.19 AZ: 181.25 TVD: 7050.04 VS: 4277.97





MD: 12466.00 INC: 87.84 AZ: 180.13 TVD: 7073.84 VS: 4750.8

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MD: 12560.00 INC: 89.30 AZ: 181.37 TVD: 7076.19 VS: 4844.25

MD: 12655.00 INC: 89.29 AZ: 180.61 TVD: 7077.36 VS: 4939.24

