



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

Wilson Ranch 31N-27HZ

Scale 5":100' - MD

12/26/2015 7:33 AM

Oper. Company: Anadarko Petroleum Corporation

State: Colorado

Well: Wilson Ranch 31N-27HZ

County: Weld

Field: Wattenberg

Country: United States

Rig: Precision 462

Location: Wilson Ranch 8-26HZ Pad

Well ID: 05123412940000

Start Date: 12/19/2015 21:10:46

Job Number: R15419

End Date: 12/23/2015 08:56:00

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

Latitude: 40.286170

Elev KB: 5012'

Longitude: -104.962821

Elev DF: 5012'

Elev GL: 4992'

Notes: Datum: NAD1983 Map Zone: 13N (108 W to 102 W) Total Correction: 8.42° Grid Convergence: 0.02° (True North)

Operator 1: Jim Thamvavong

Operator 2: David Clancy

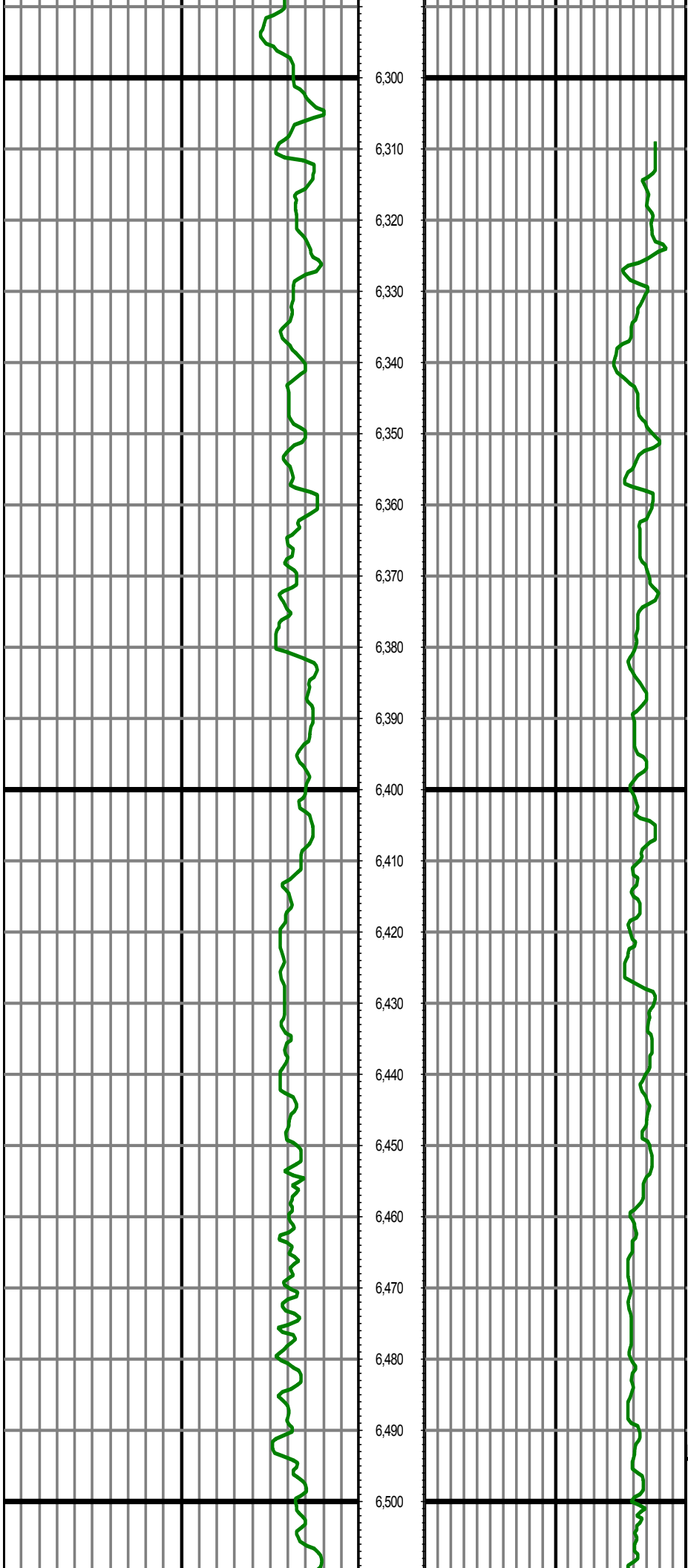
Notes: Smoothing: 2 Gap Fill: 10 Tool Type: Mud Pulse Calculation Method: Minimum Curvature

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	EGNF-0067				
Bit Size	8 1/2				
Cal Factor	4.661				
Survey Offset:	69.00				
Gamma Offset	65.00				
Resistivity Offset	0.00				
Start Depth	1862.00				
StartDate	12/19/2015				
StartTime	16:43				
EndDepth	16465.00				
EndDate	12/23/2015				
EndTime	08:56				
Mud Type	OBM				
Mud Weight	9.2 - 9.4				
Funnel Viscosity	51				
Plastic Viscosity	17				
Yield Point	10				
Solids Content	8.6				
Chlorides	60000				
Hole Data			Casing Data		
Size	From	To	Size	From	To
8 1/2	1862.00	16465.00	9 5/8	0.00	1862.00

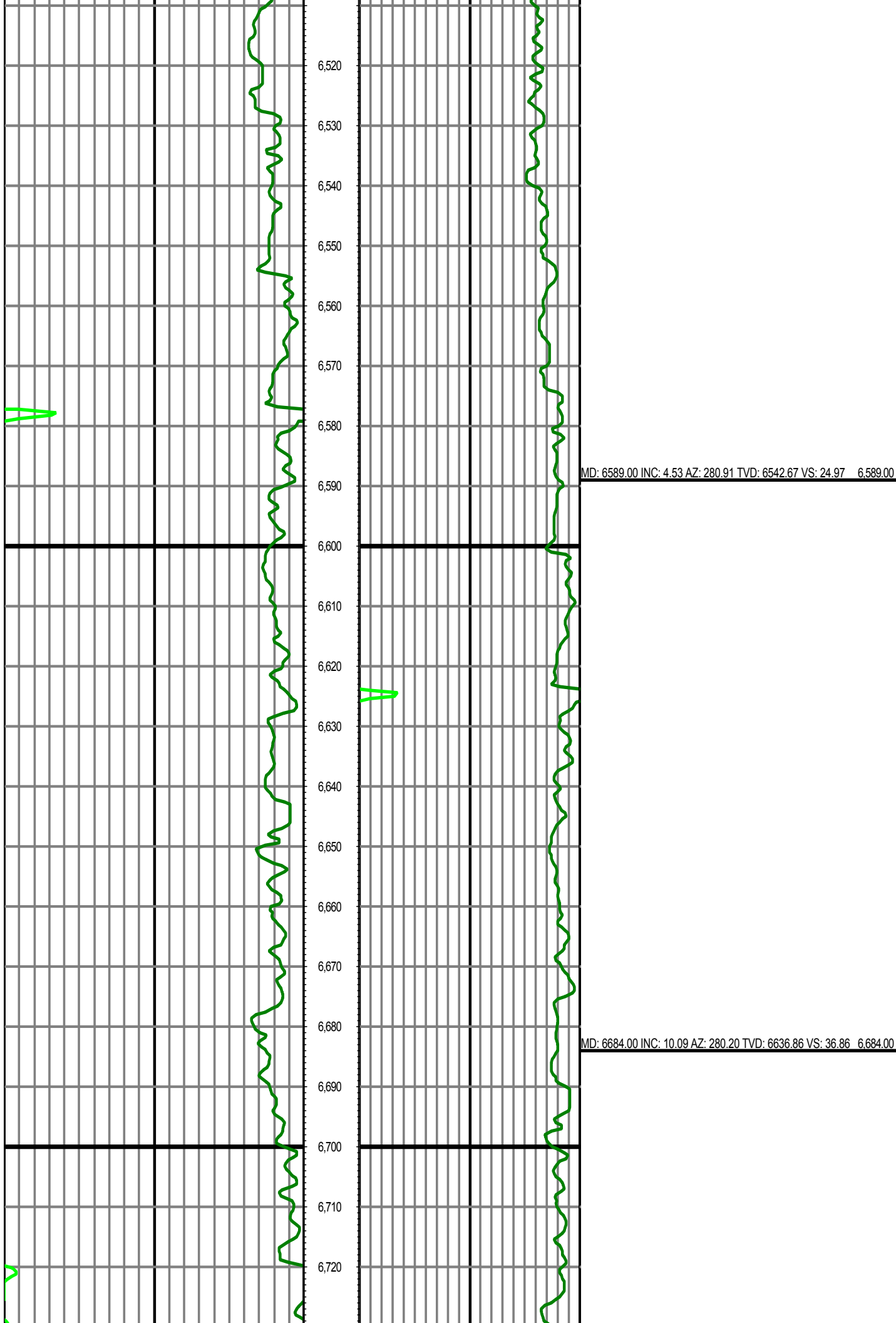
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost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

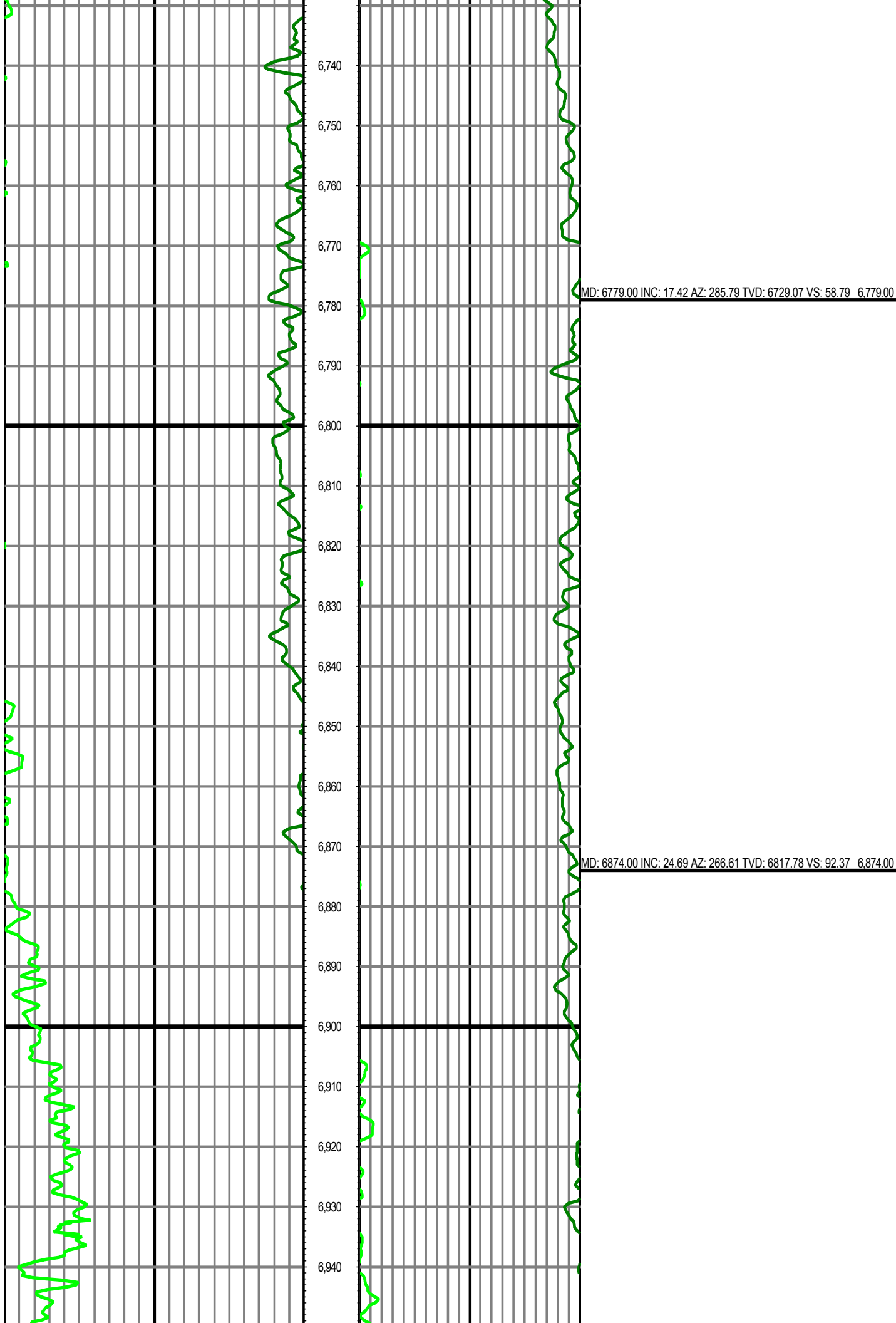
0.00 GR(API) on TVD 200.00 MD 0.00 GR(API) on MD 200.00 Surveys (MD/INC/AZ/TVD/VS)
200.00 2 400.00 FT 200.00 2 400.00

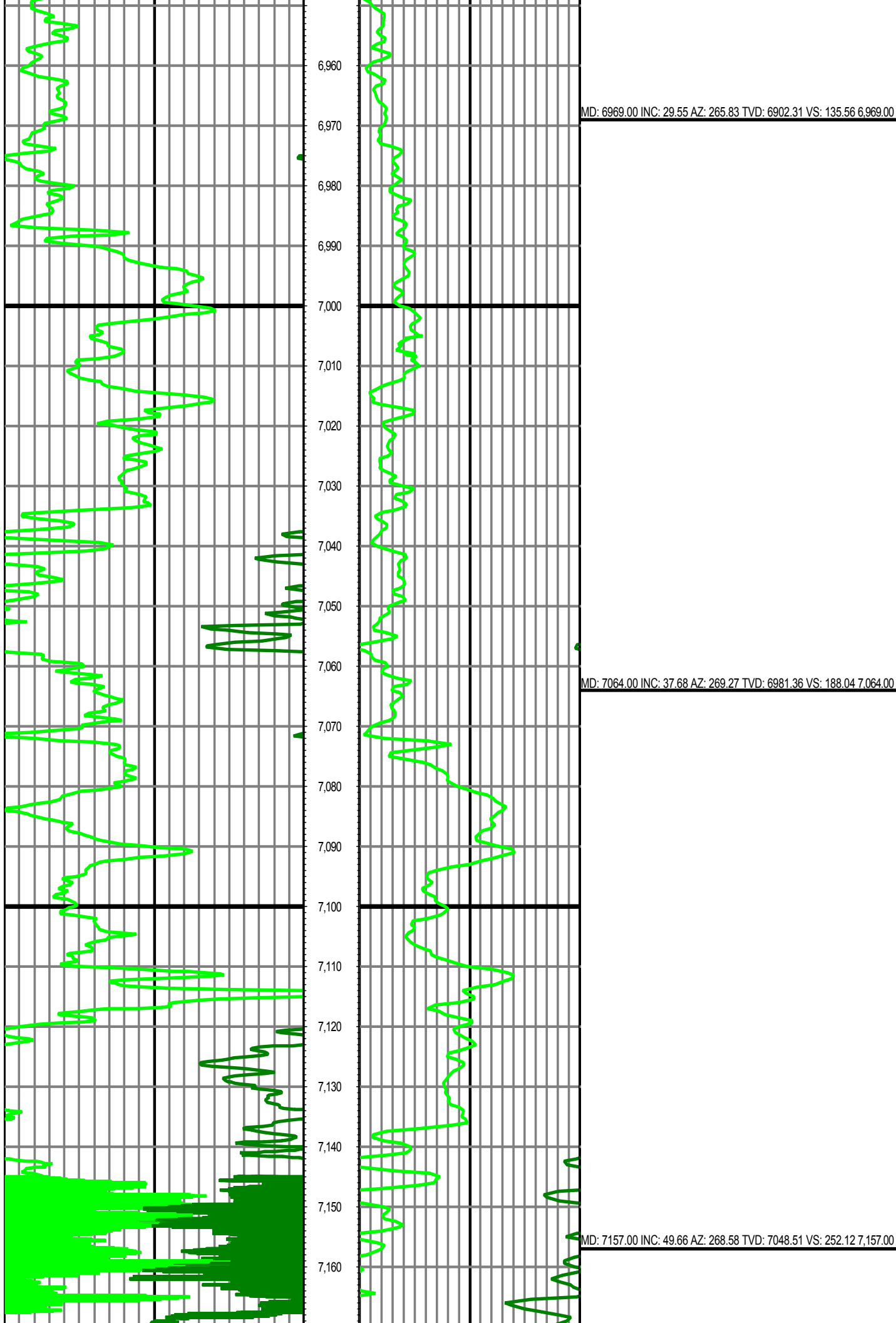


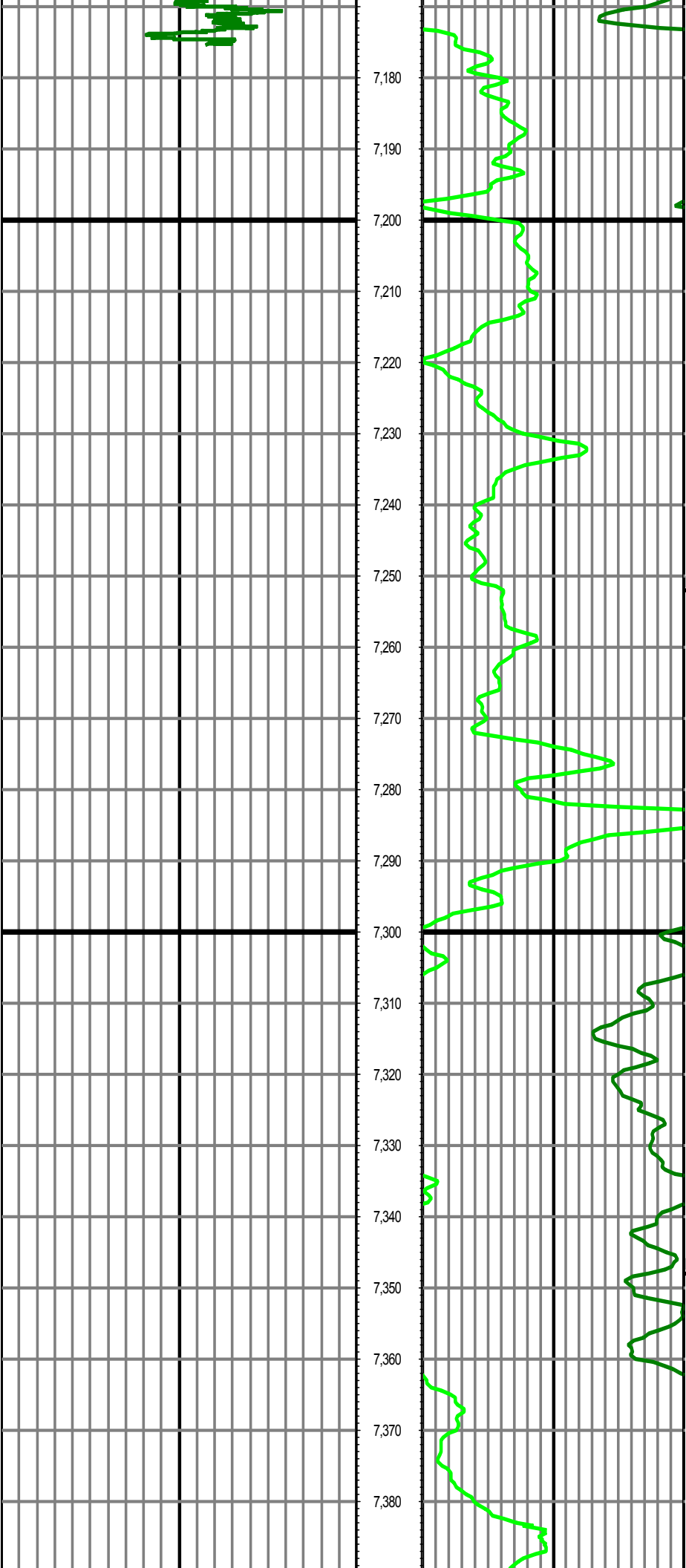


MD: 6494.00 INC: 0.72 AZ: 329.20 TVD: 6447.78 VS: 20.97 6494.00



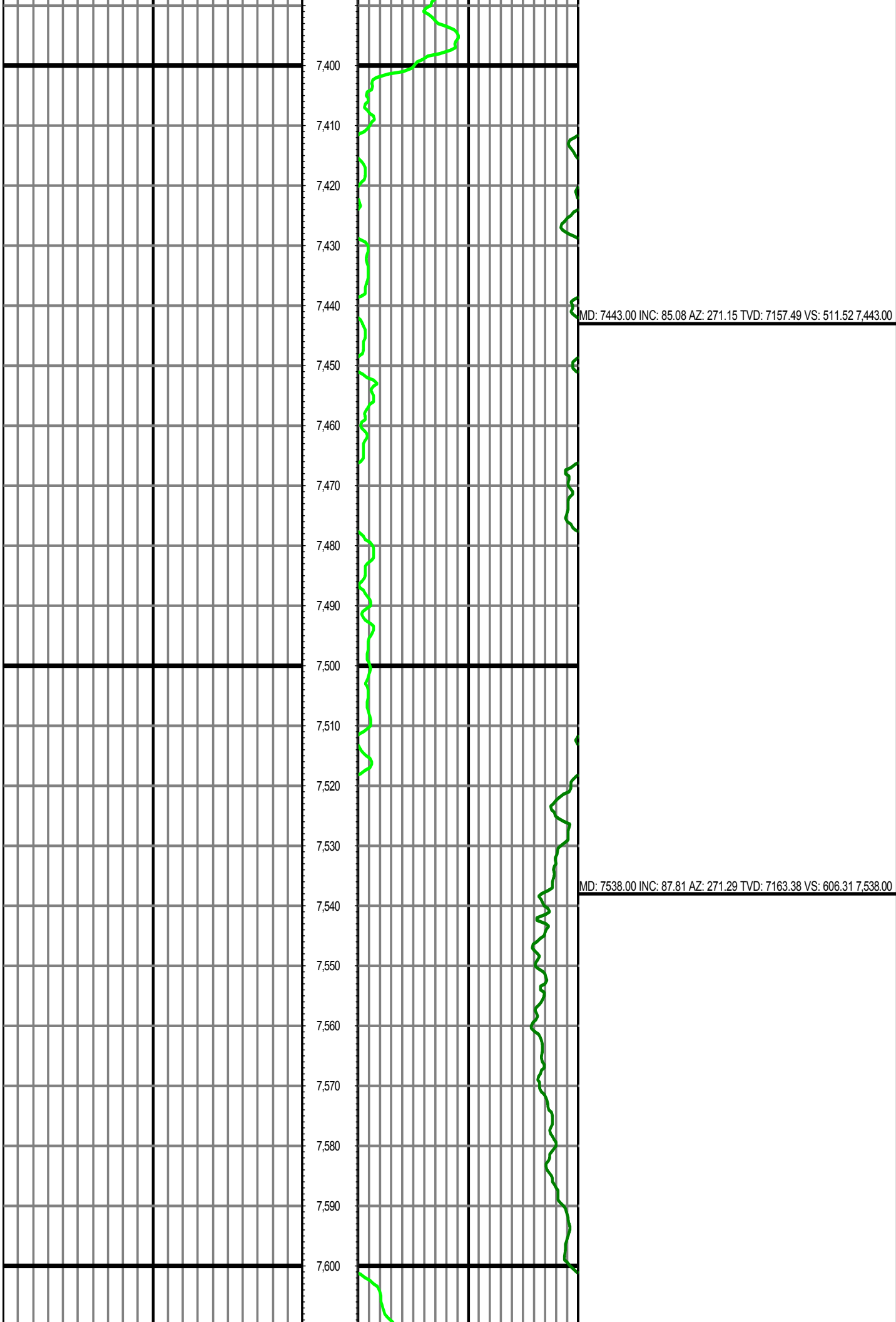


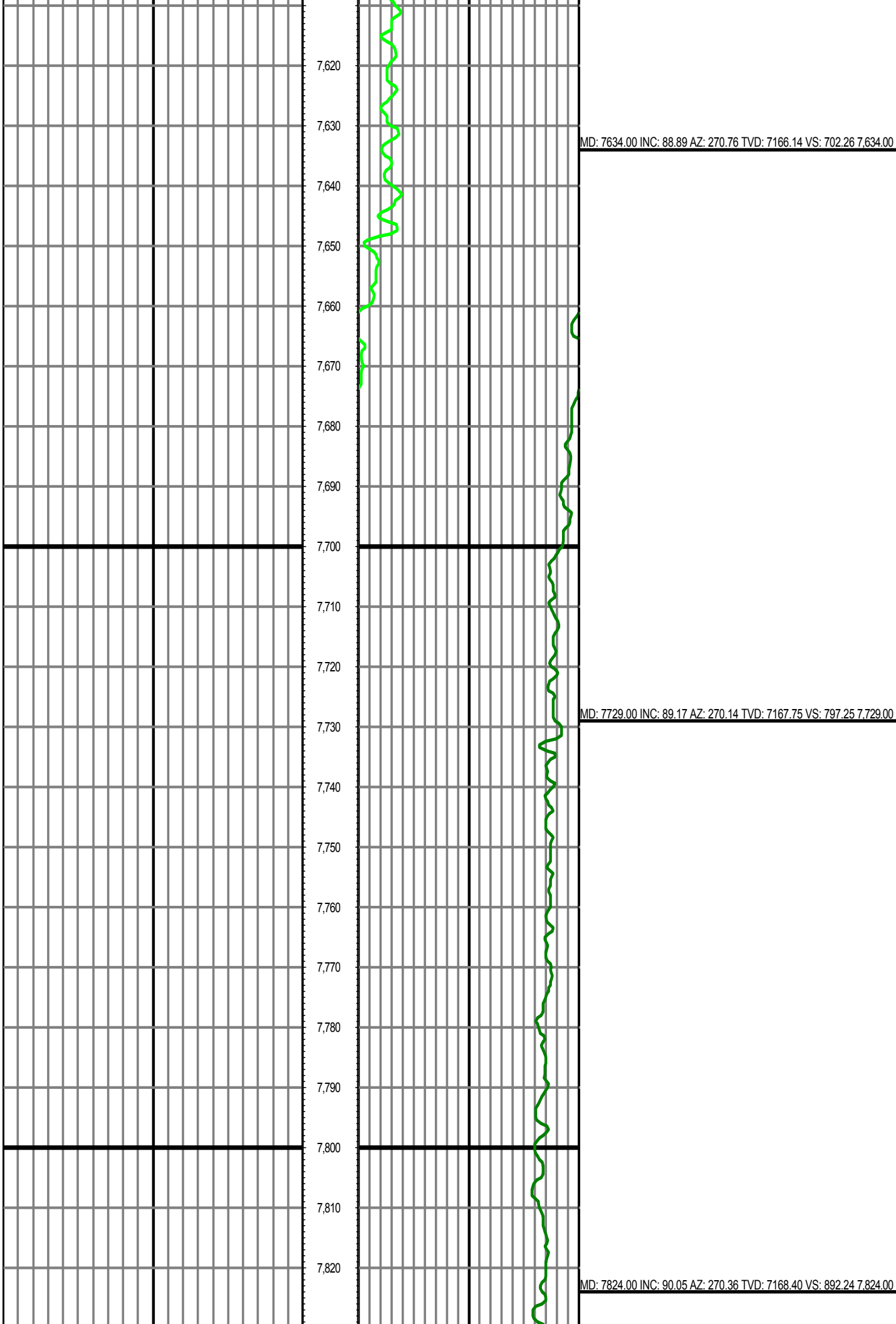


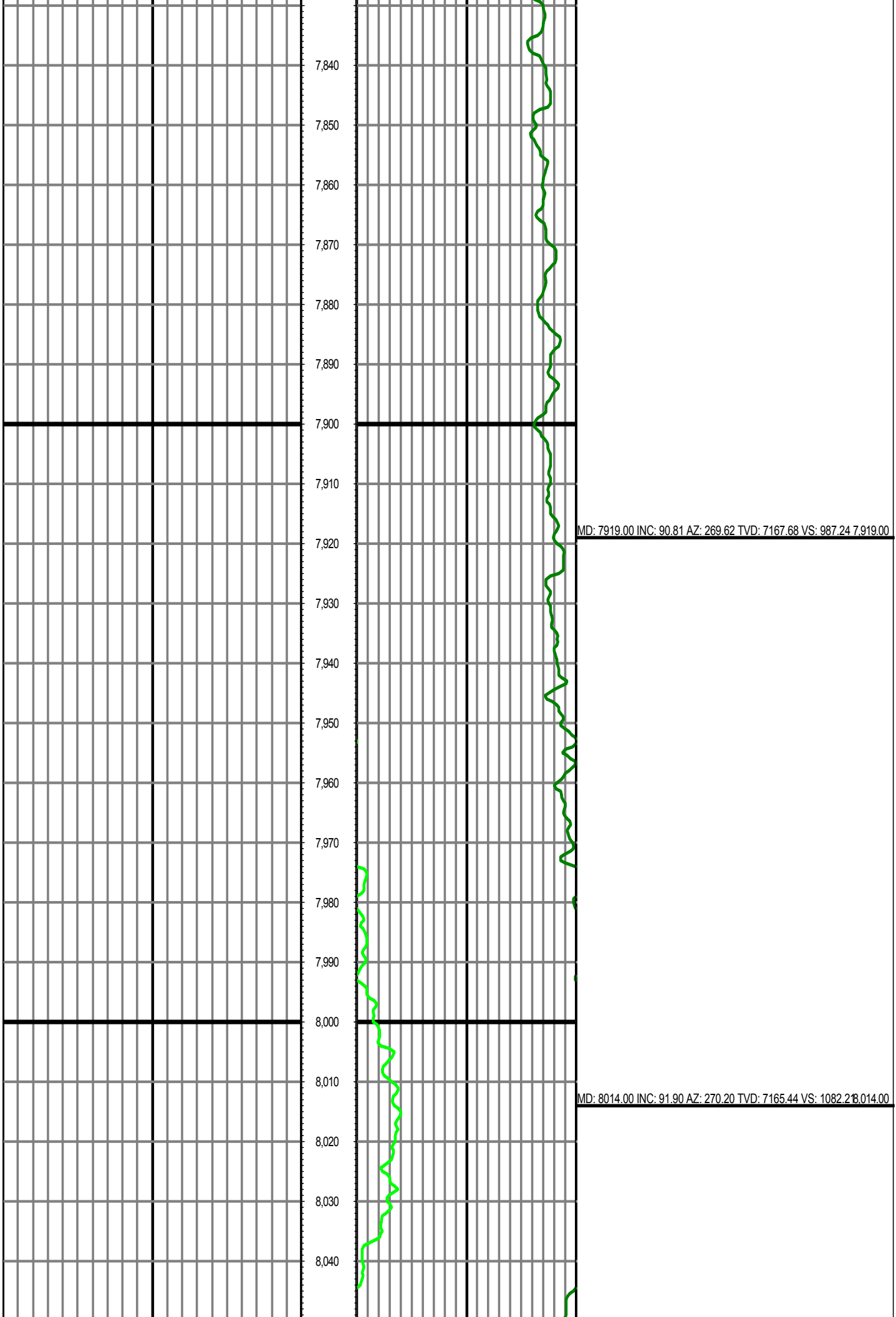


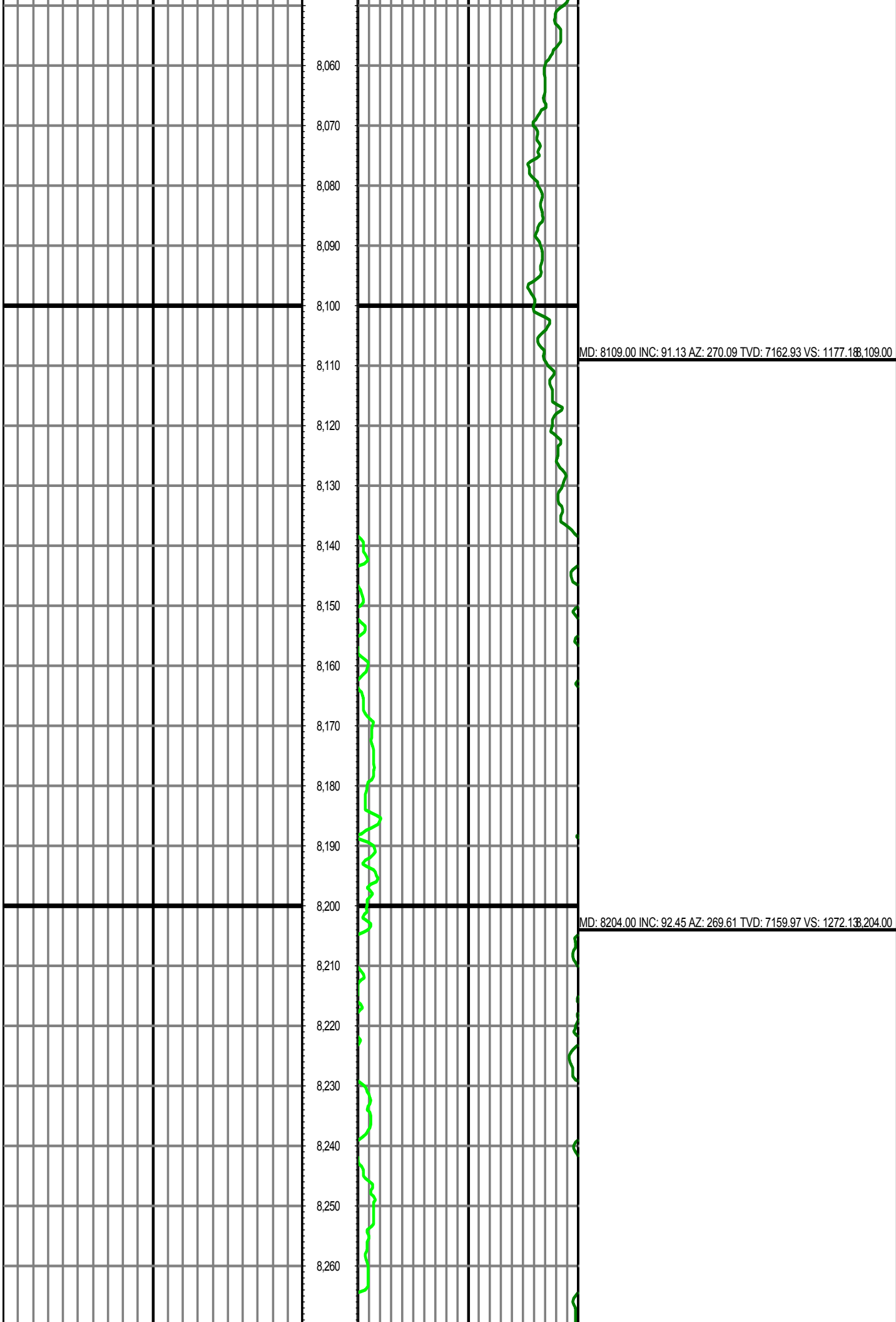
MD: 7252.00 INC: 61.55 AZ: 266.78 TVD: 7102.08 VS: 330.28 7,252.00

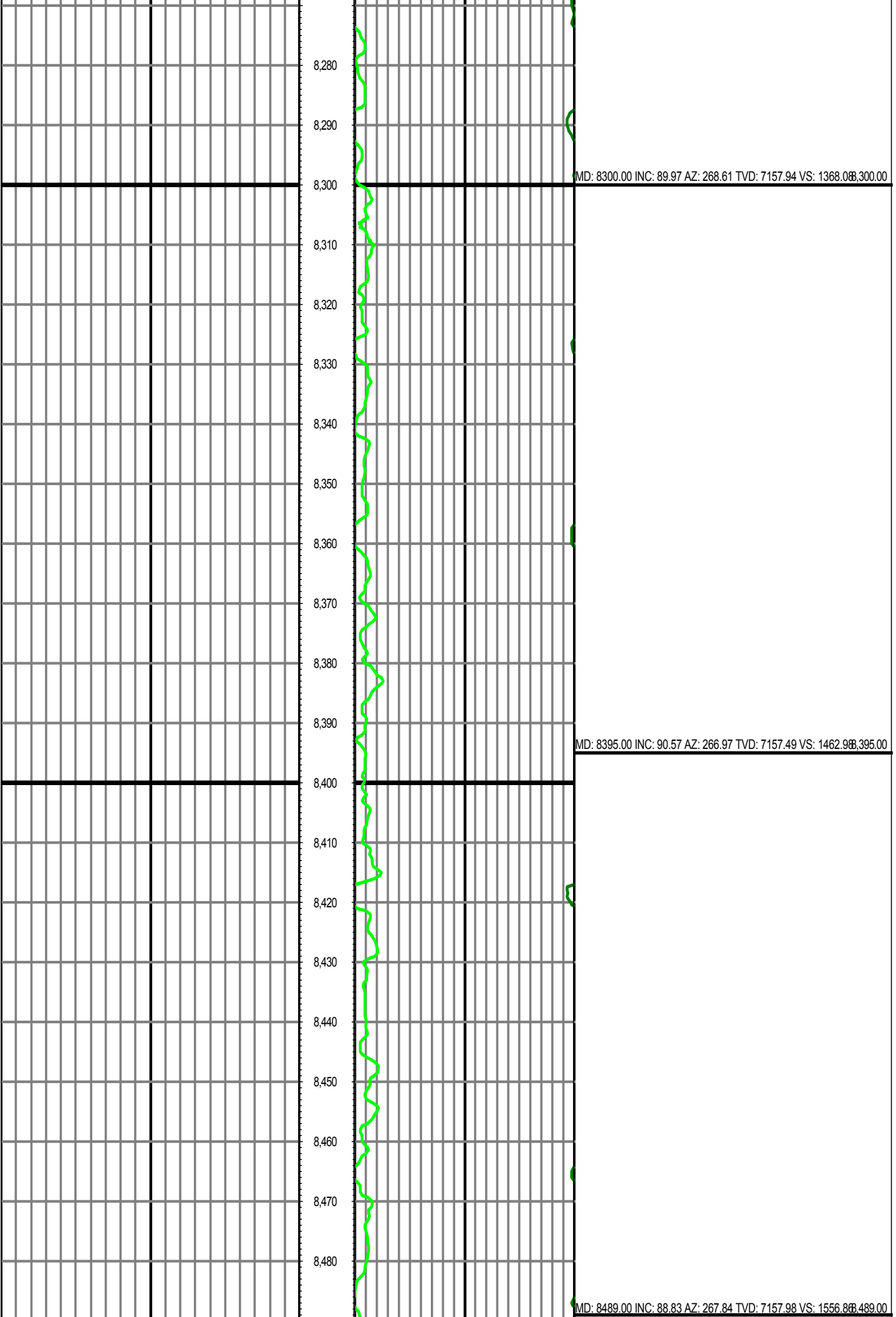
MD: 7348.00 INC: 72.78 AZ: 267.63 TVD: 7139.28 VS: 418.49 7,348.00







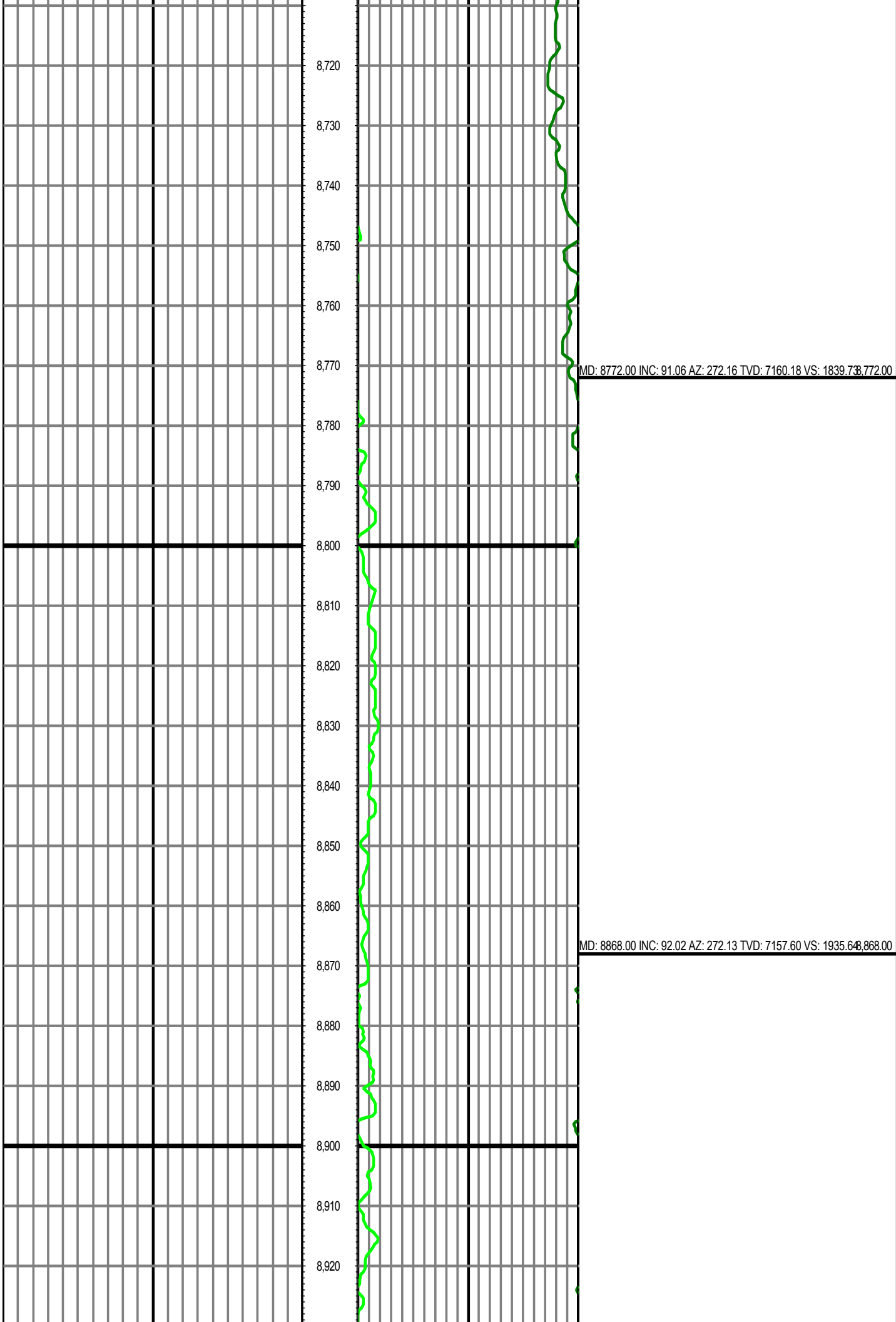


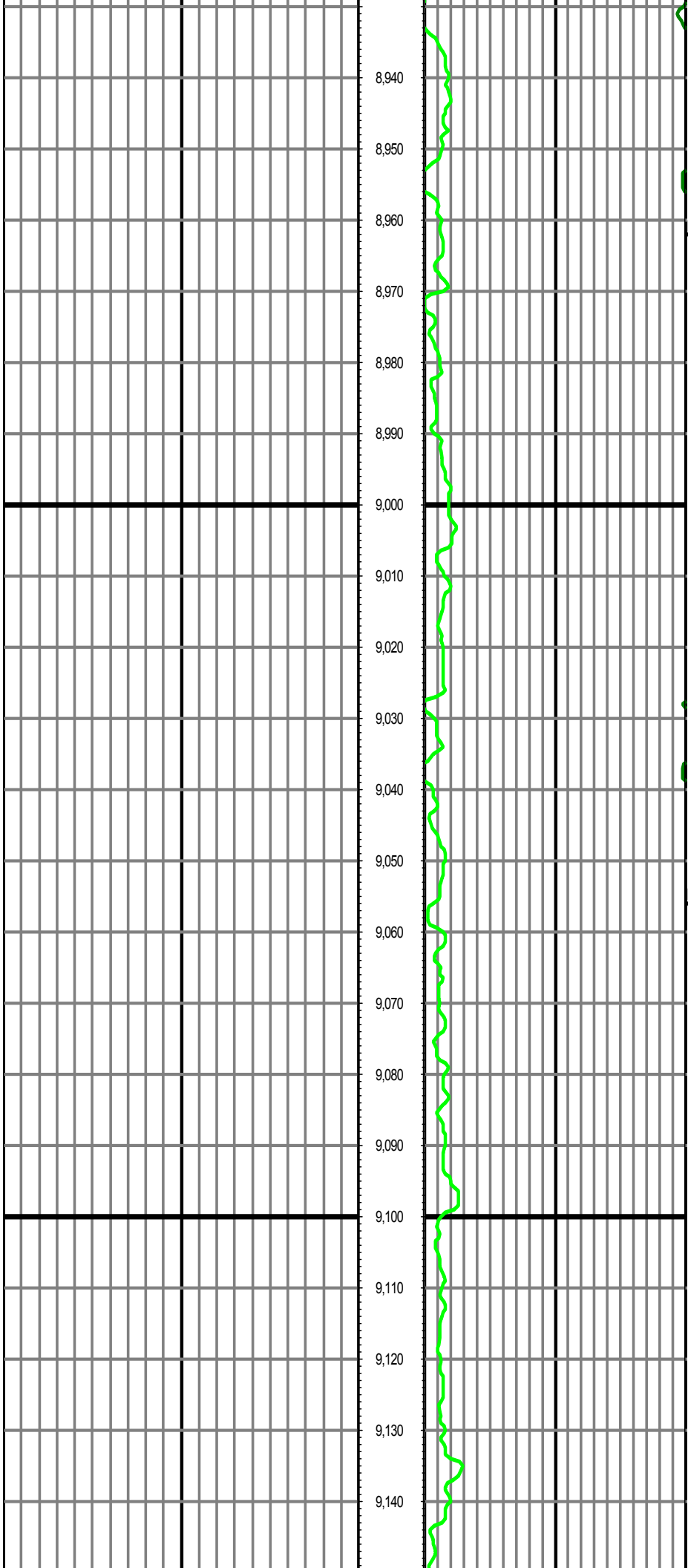


MD: 8489.00 INC: 88.83 AZ: 267.84 TVD: 7157.98 VS: 1556.86,489.00

MD: 8583.00 INC: 88.96 AZ: 271.54 TVD: 7159.80 VS: 1650.83,583.00

MD: 8677.00 INC: 89.75 AZ: 272.12 TVD: 7160.85 VS: 1744.78,677.00





MD: 8962.00 INC: 90.49 AZ: 271.40 TVD: 7155.54 VS: 2029.58 962.00

MD: 9056.00 INC: 89.77 AZ: 268.82 TVD: 7155.33 VS: 2123.57 056.00

MD: 9152.00 INC: 89.79 AZ: 265.36 TVD: 7155.70 VS: 2219.49,152.00

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MD: 9247.00 INC: 89.26 AZ: 263.90 TVD: 7156.49 VS: 2313.99,247.00

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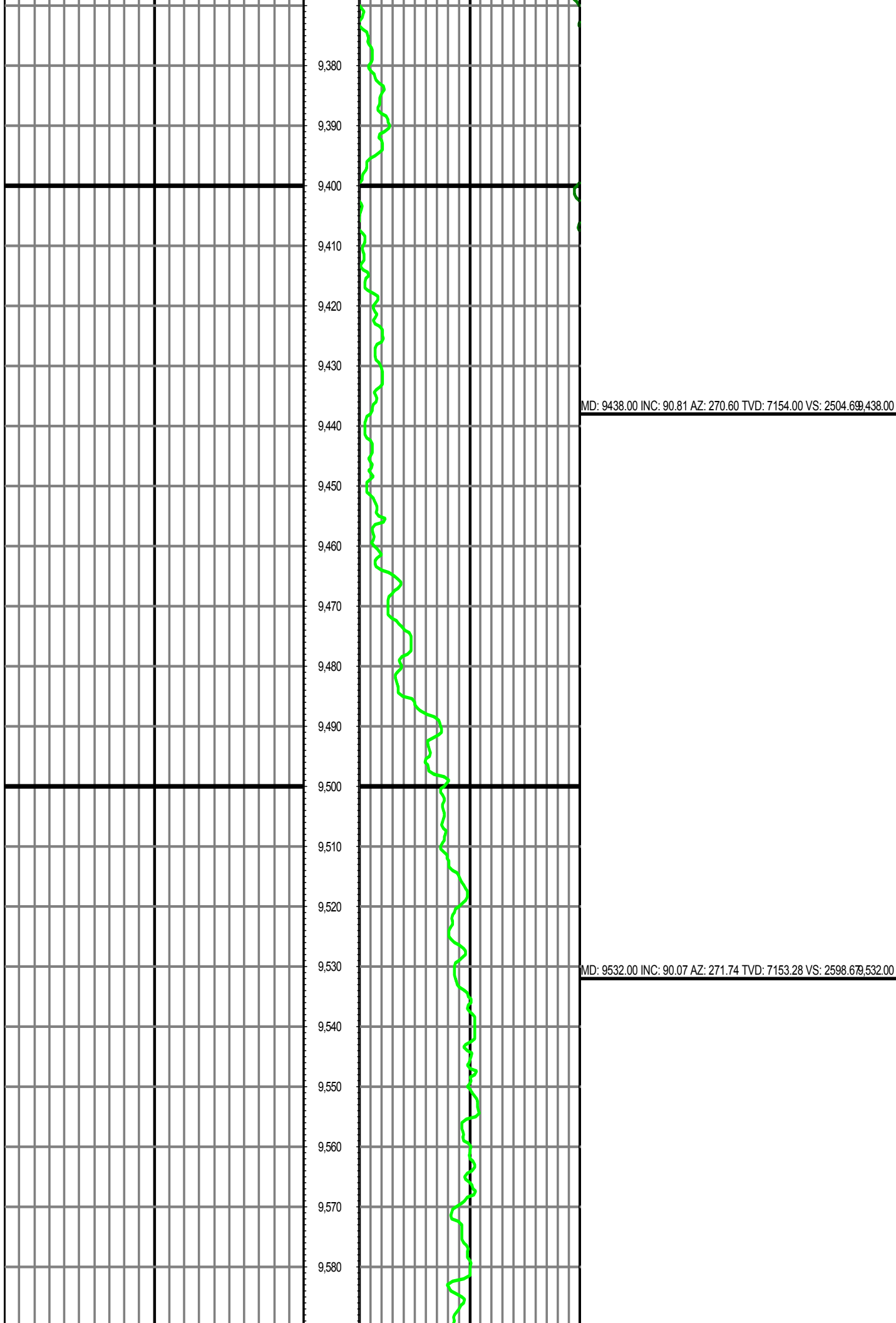
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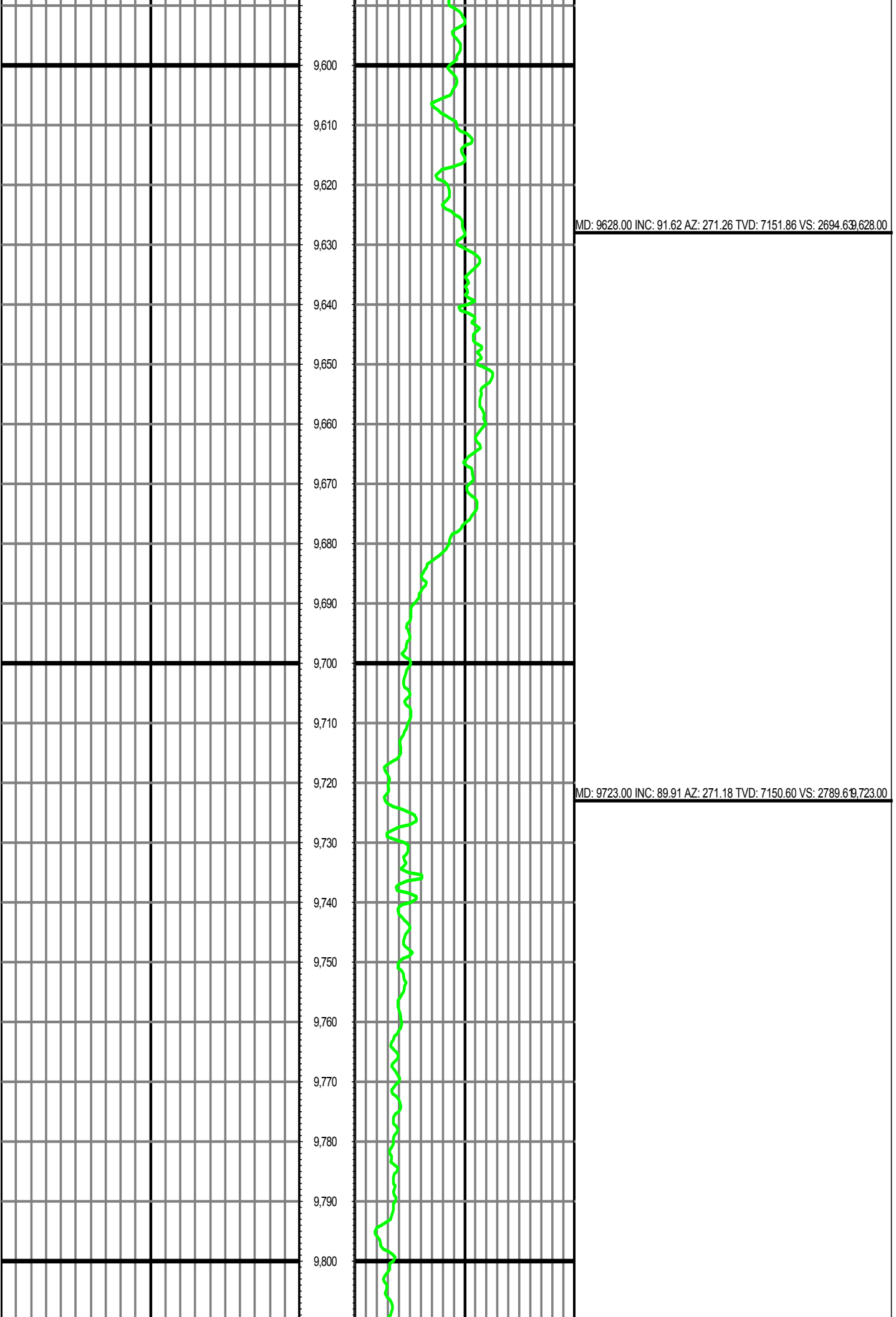
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MD: 9343.00 INC: 91.46 AZ: 269.32 TVD: 7155.88 VS: 2409.79,343.00

9,350

9,360





MD: 9818.00 INC: 91.52 AZ: 272.57 TVD: 7149.41 VS: 2884.56 9818.00

9,820

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MD: 9913.00 INC: 90.39 AZ: 271.72 TVD: 7147.83 VS: 2979.49 9913.00

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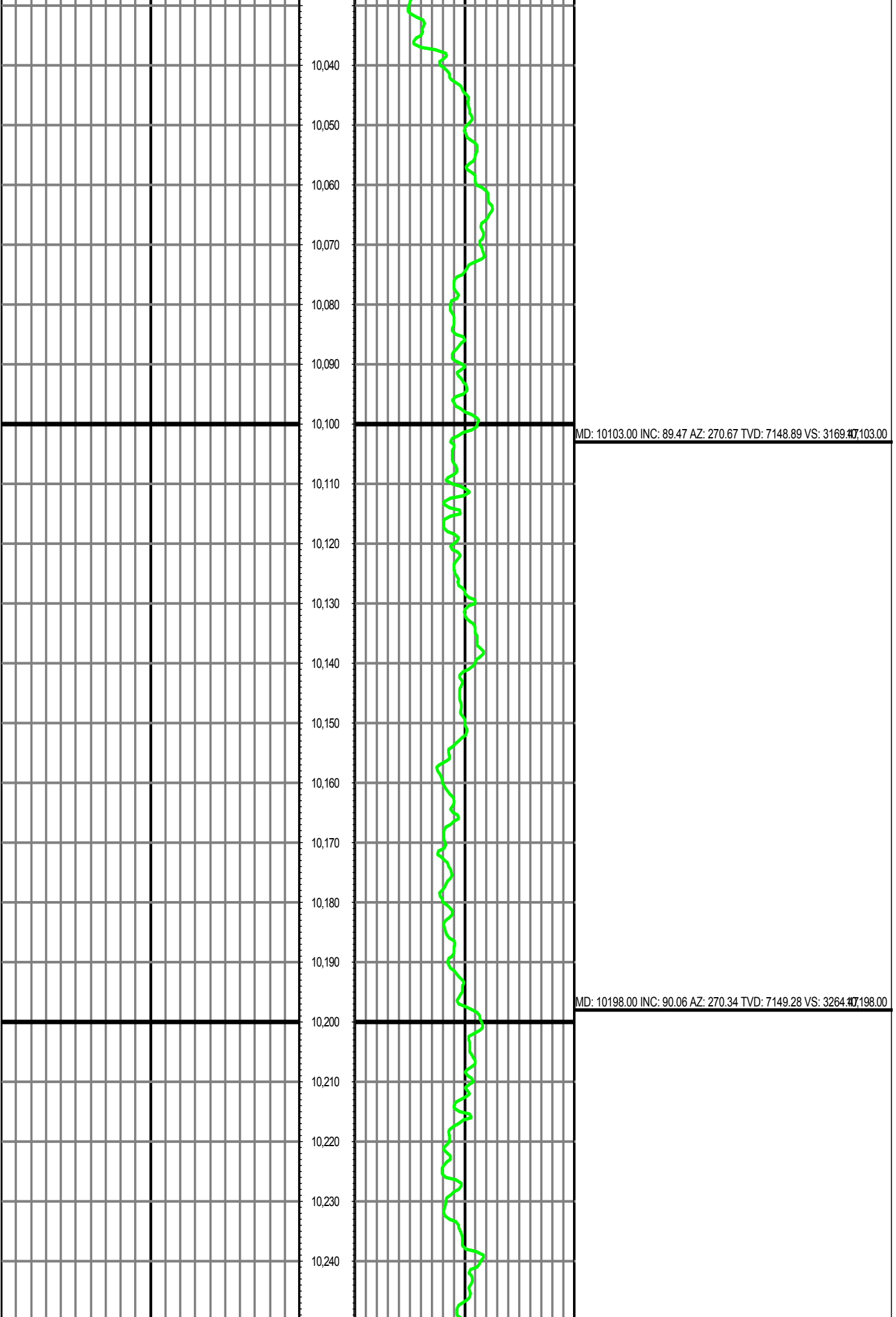
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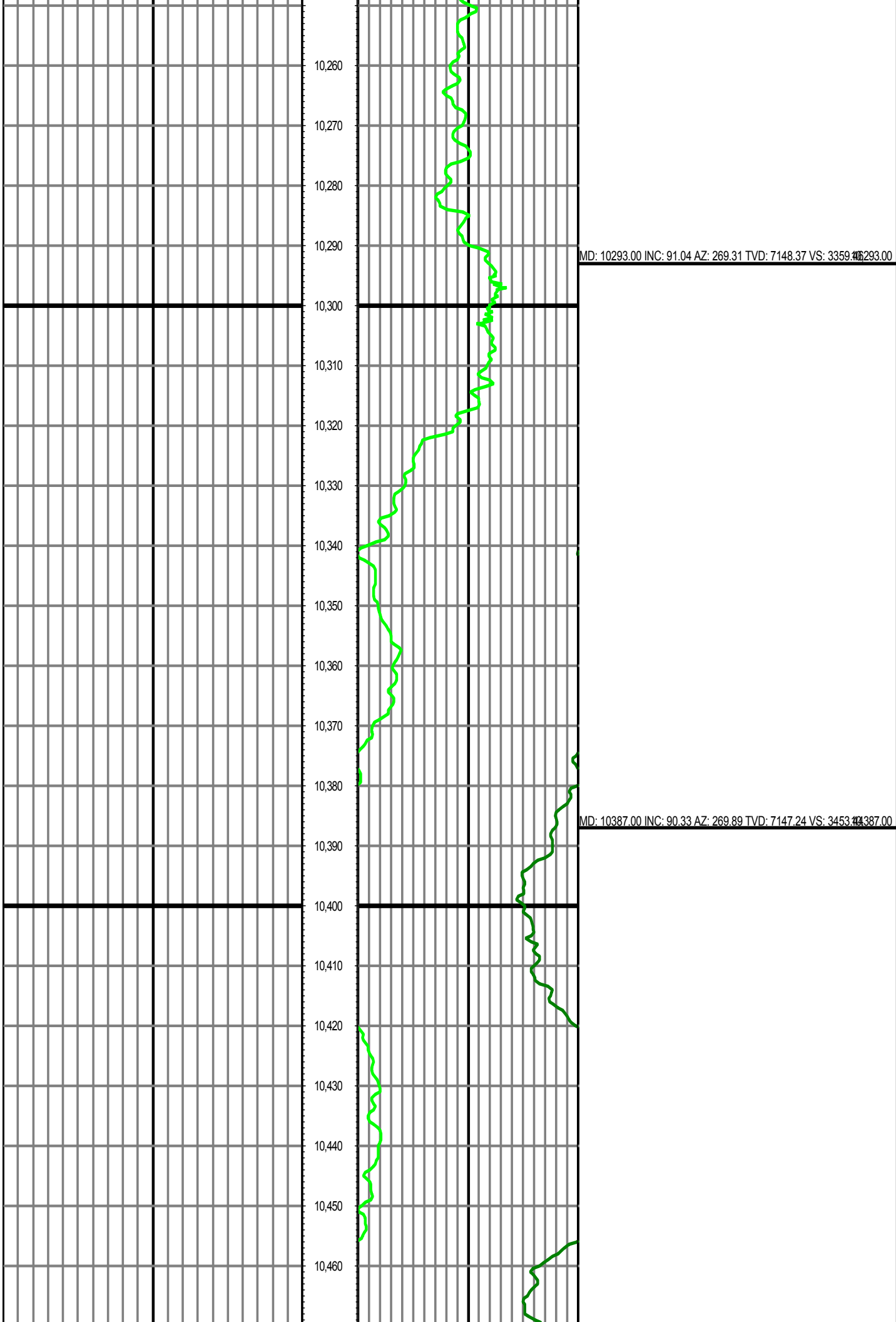
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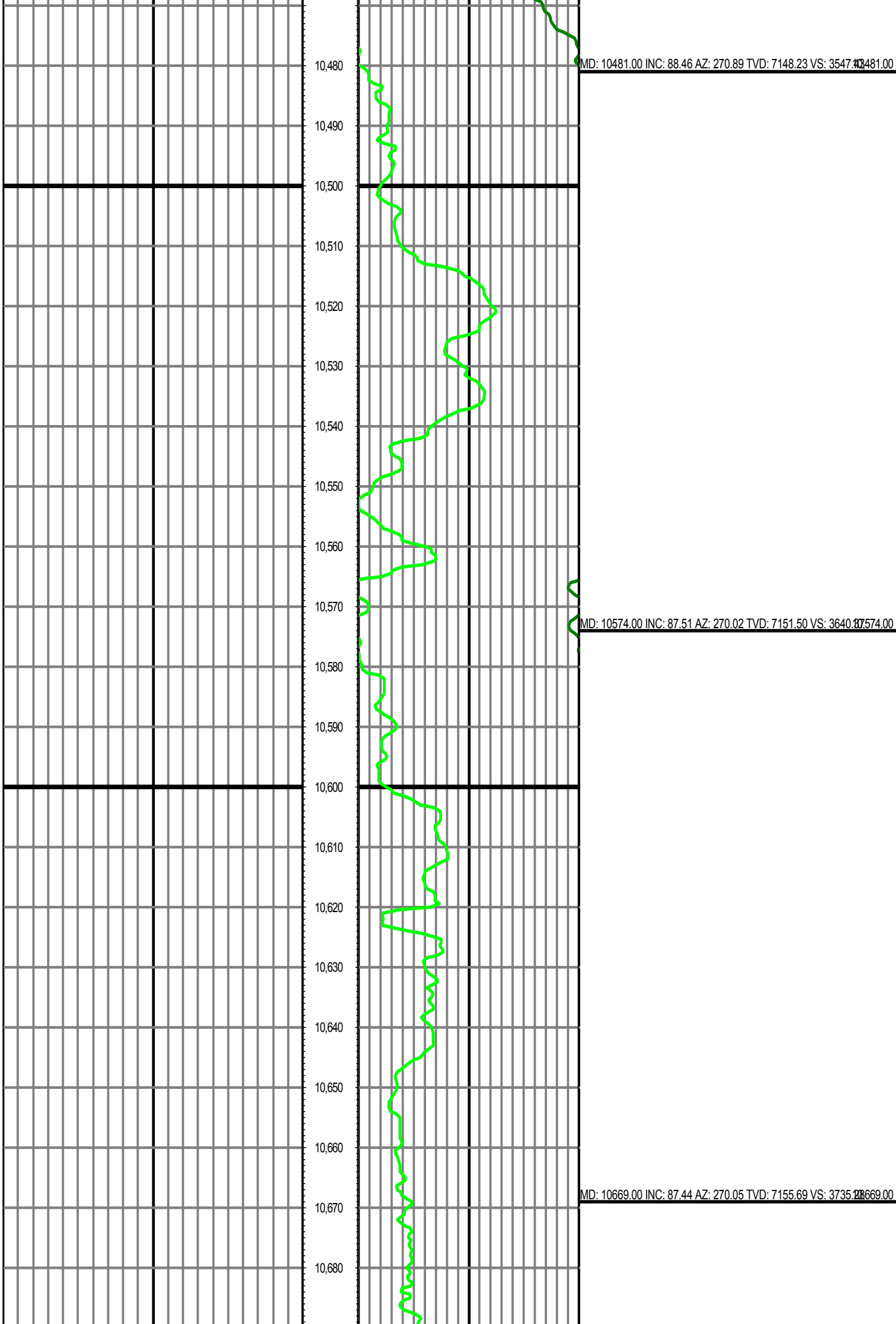
MD: 10008.00 INC: 89.43 AZ: 270.42 TVD: 7147.98 VS: 3074.43 10008.00

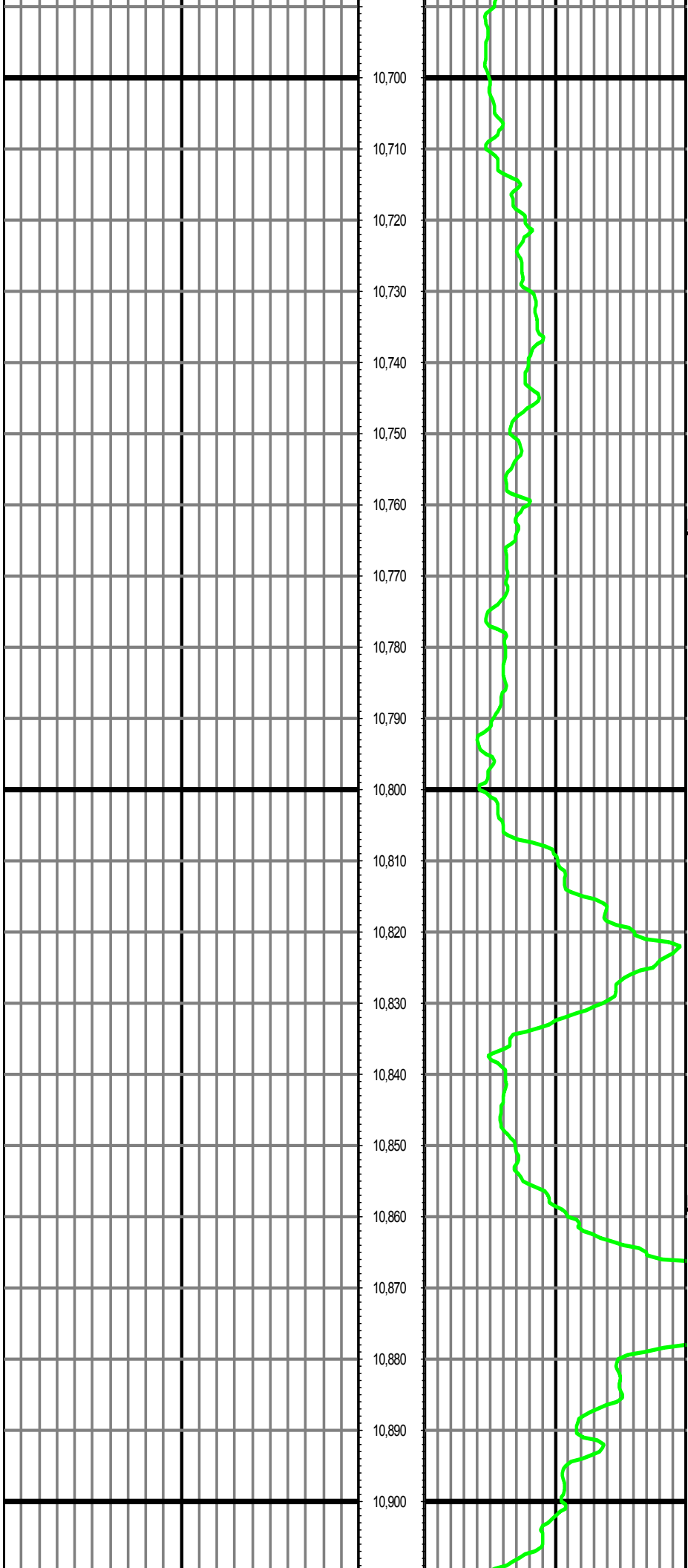
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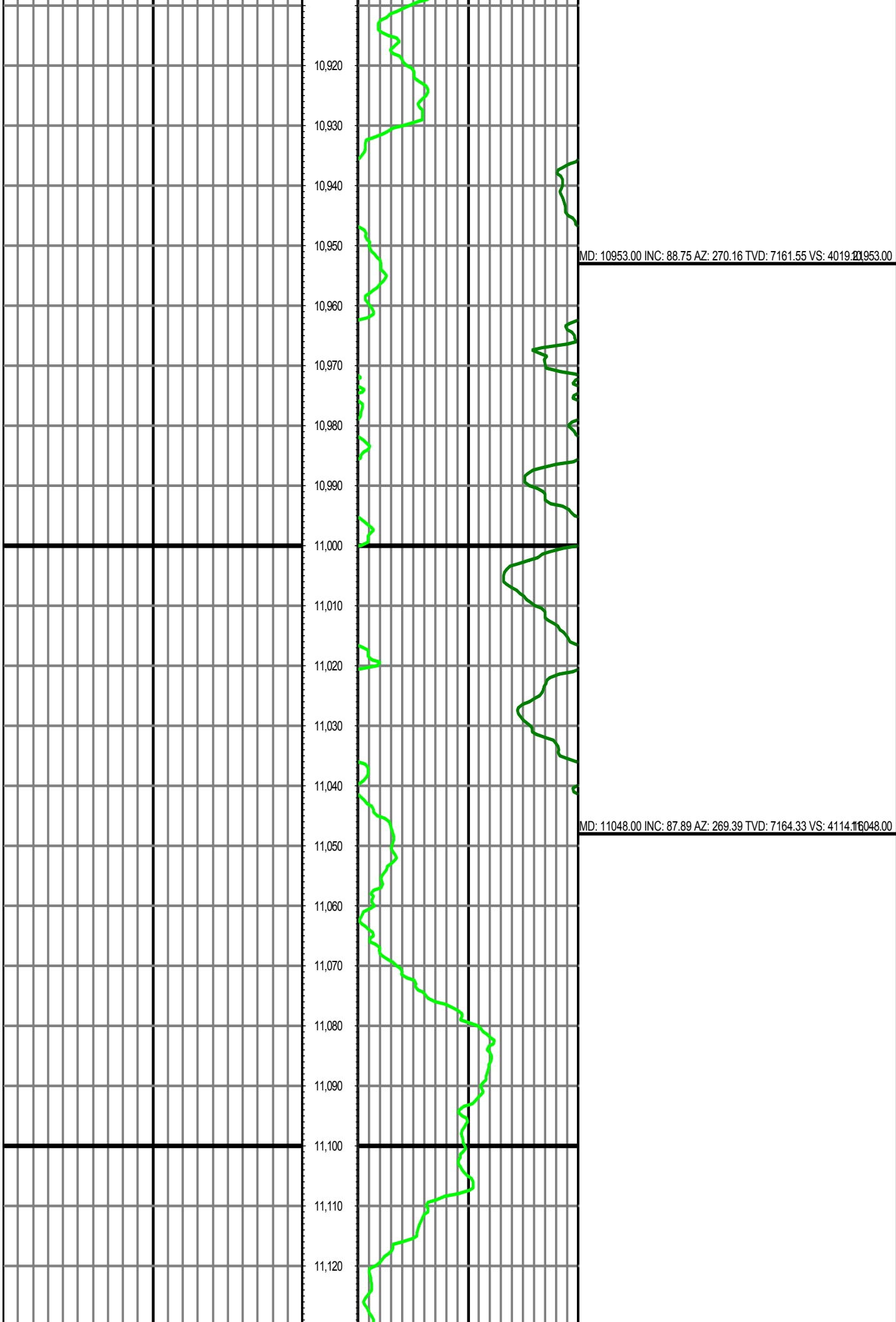


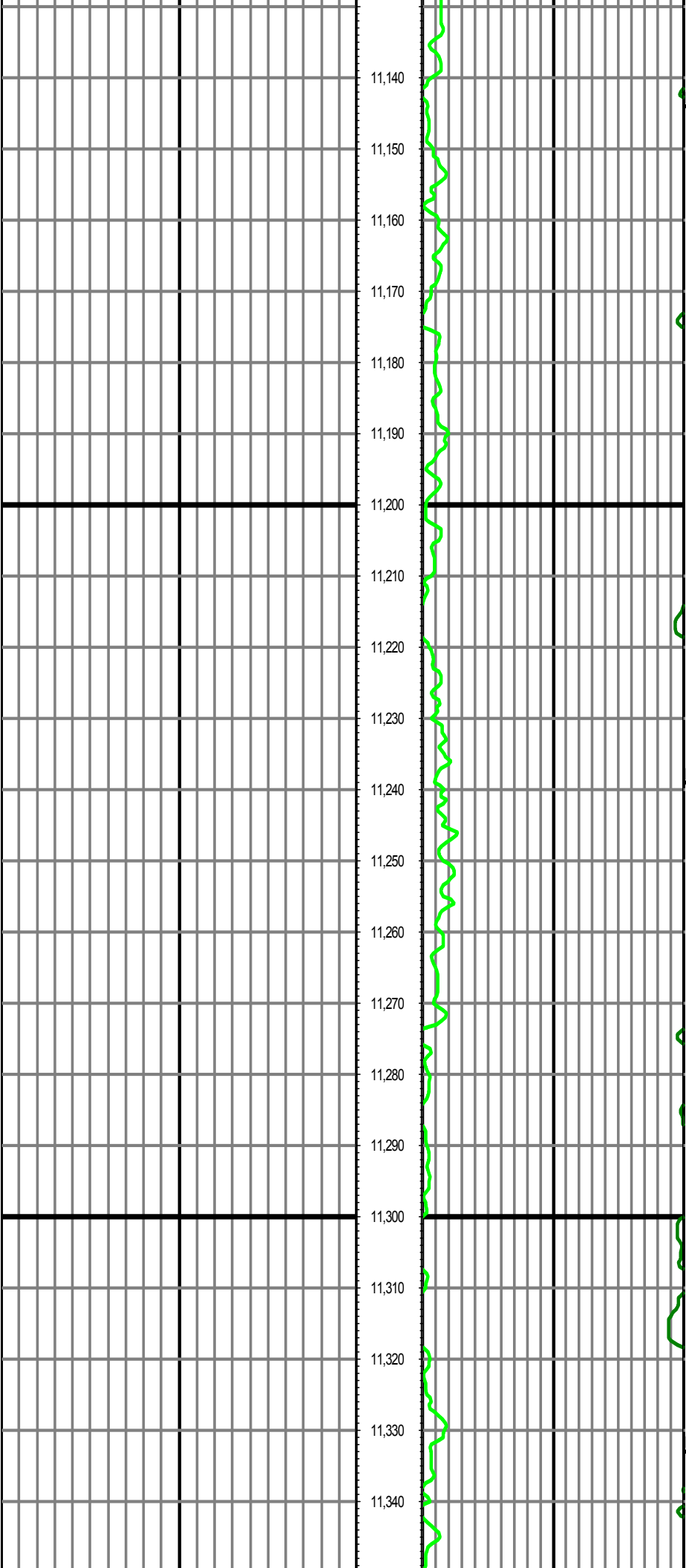




MD: 10764.00 INC: 89.31 AZ: 269.96 TVD: 7158.38 VS: 3830.24 10764.00

MD: 10859.00 INC: 89.05 AZ: 270.15 TVD: 7159.74 VS: 3925.21 10859.00

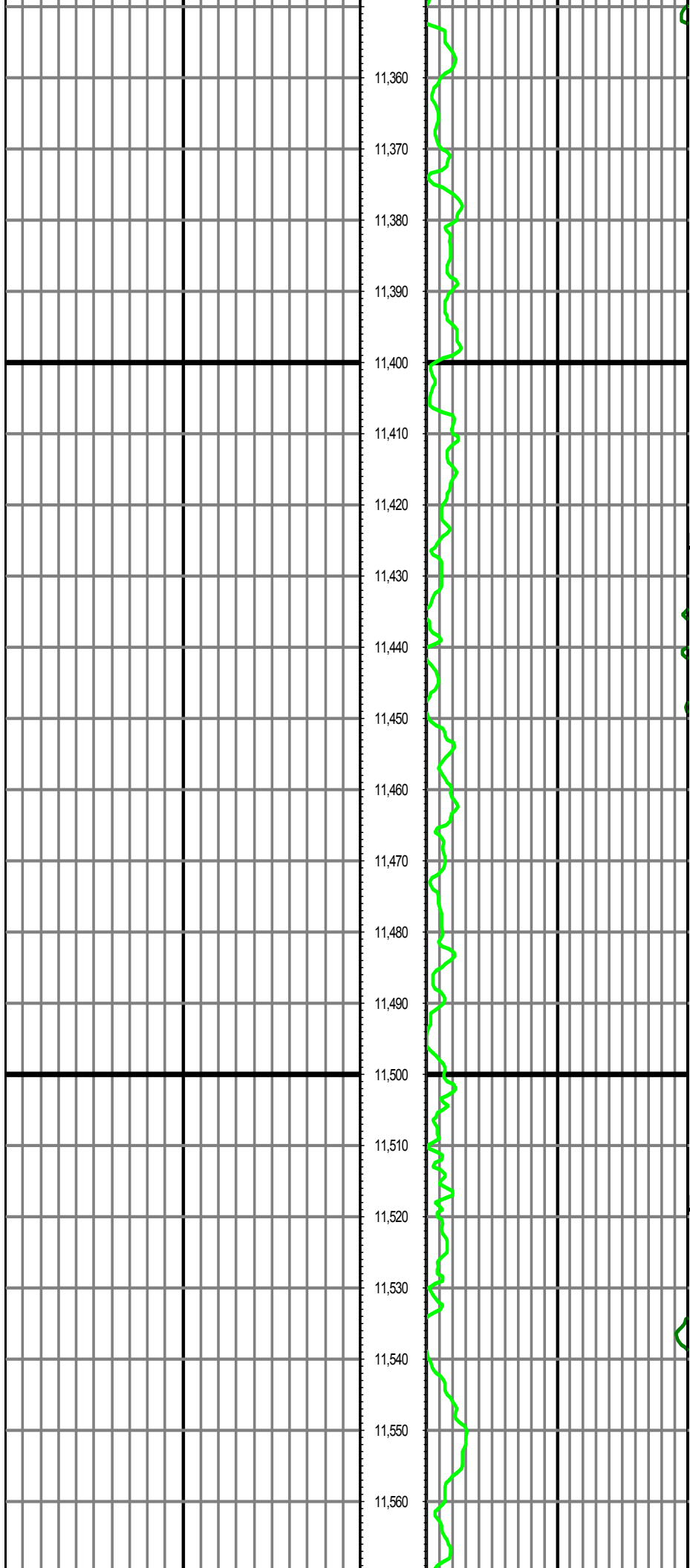




MD: 11144.00 INC: 89.69 AZ: 271.21 TVD: 7166.36 VS: 4210.118144.00

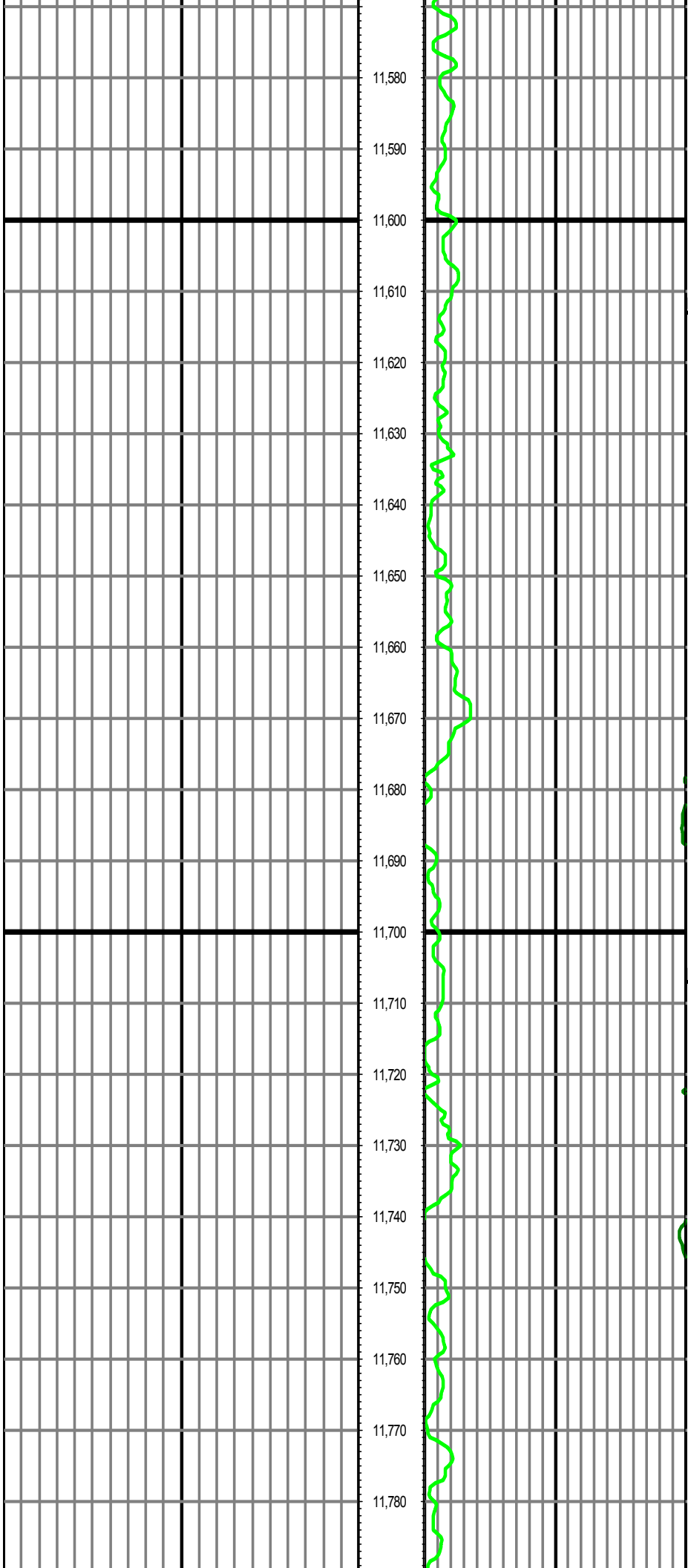
MD: 11239.00 INC: 88.81 AZ: 270.41 TVD: 7167.60 VS: 4305.112239.00

MD: 11333.00 INC: 91.41 AZ: 270.39 TVD: 7167.42 VS: 4399.111333.00



MD: 11426.00 INC: 92.39 AZ: 270.41 TVD: 7164.34 VS: 4492.06426.00

MD: 11519.00 INC: 93.01 AZ: 268.80 TVD: 7159.96 VS: 4584.95519.00



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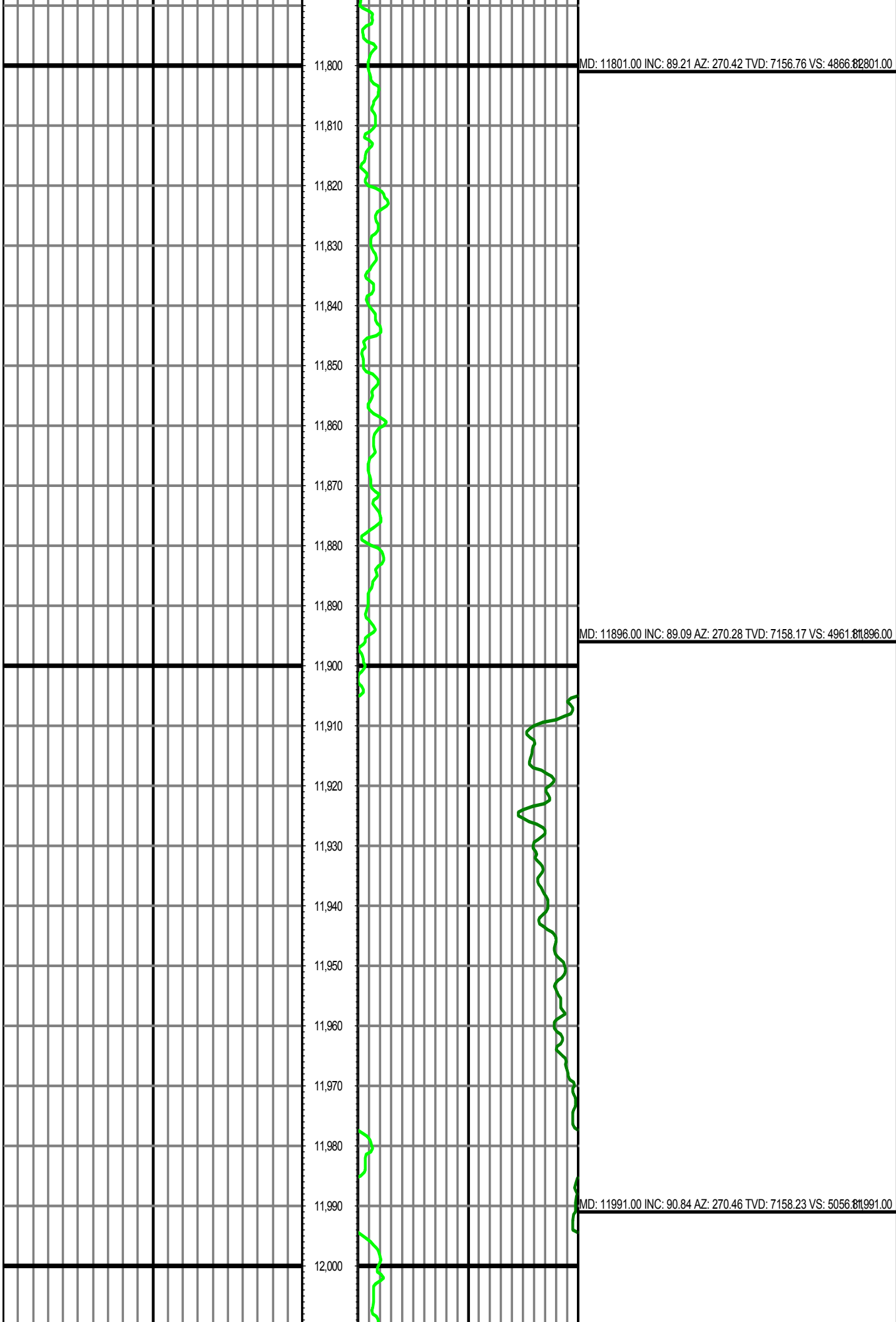
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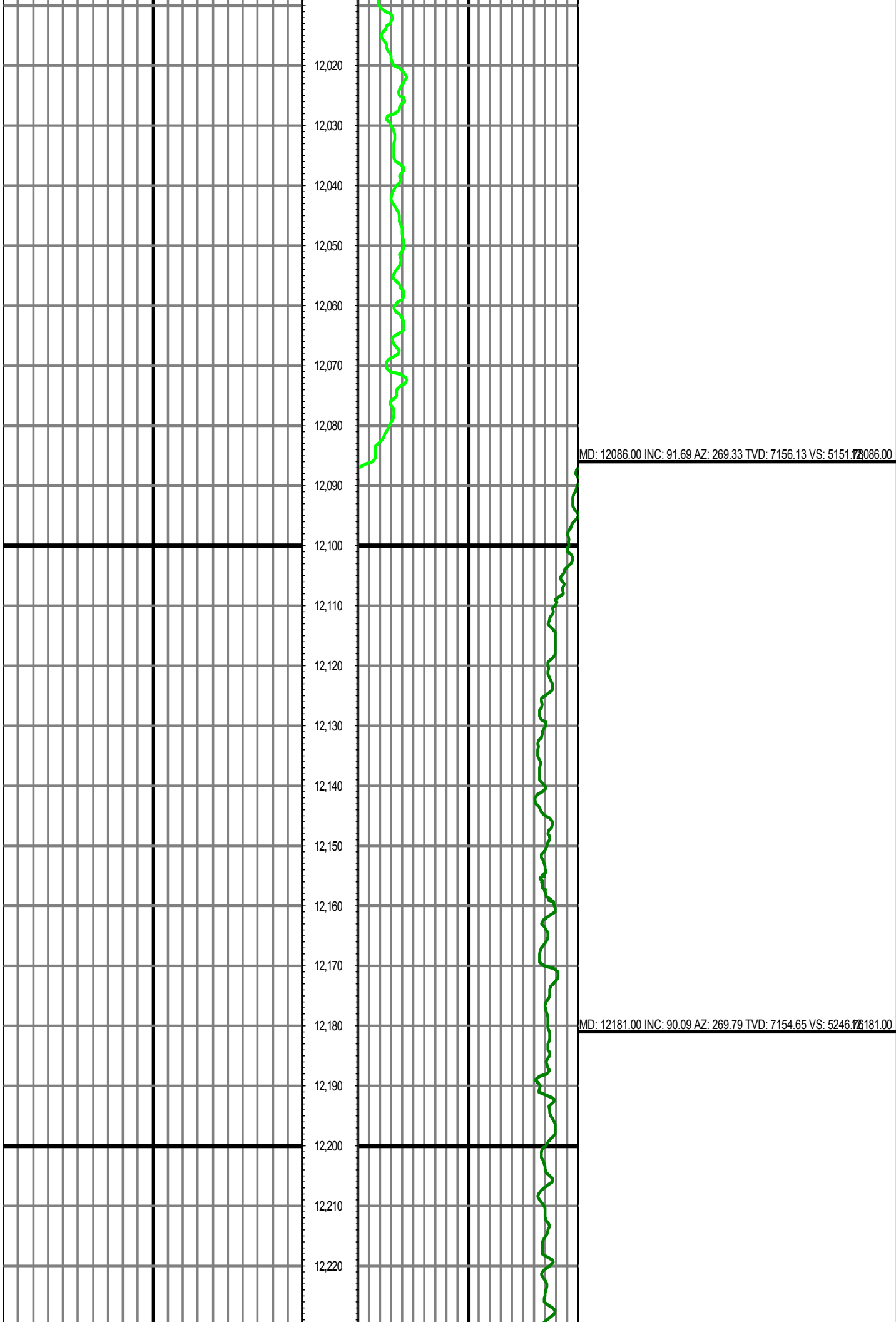
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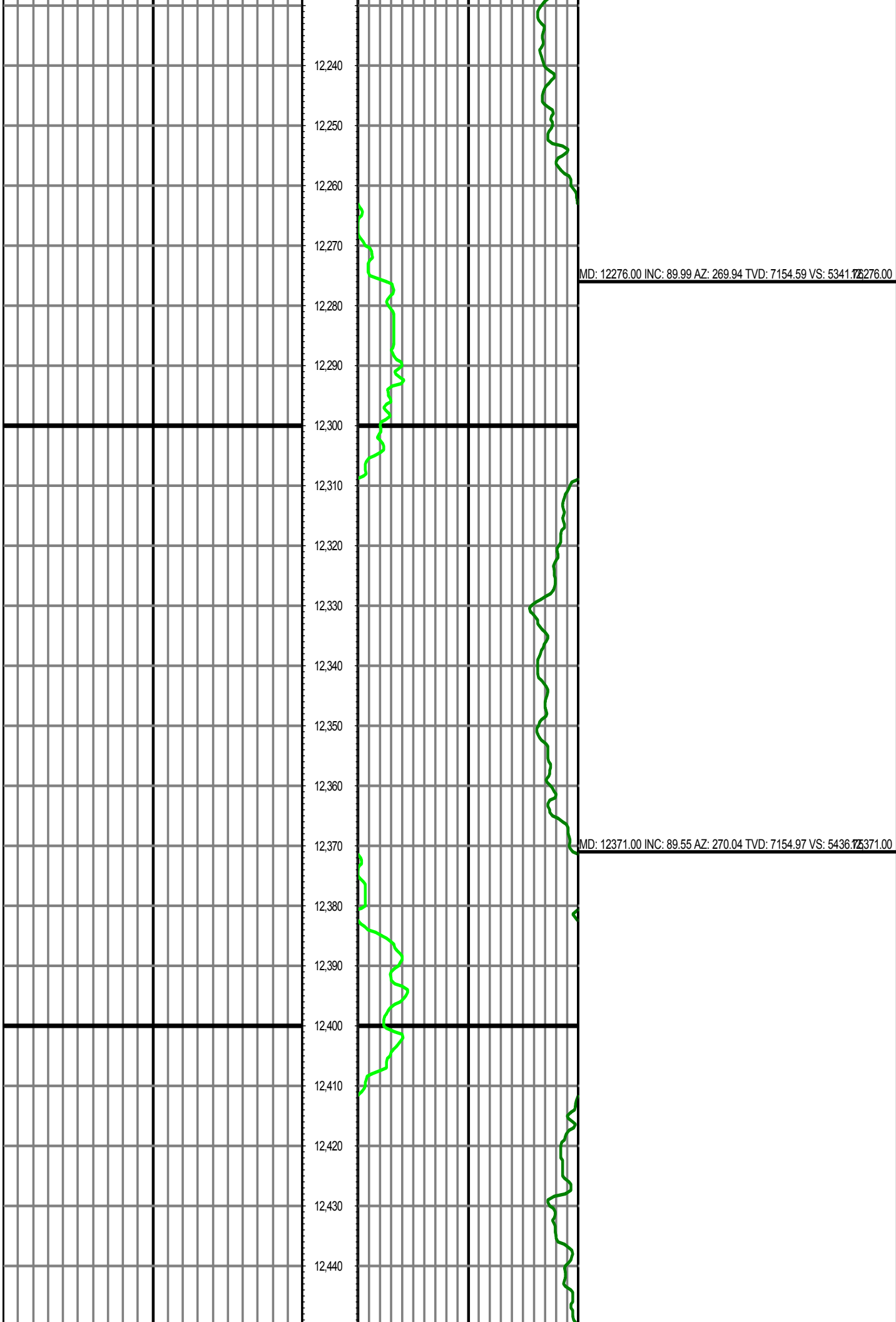
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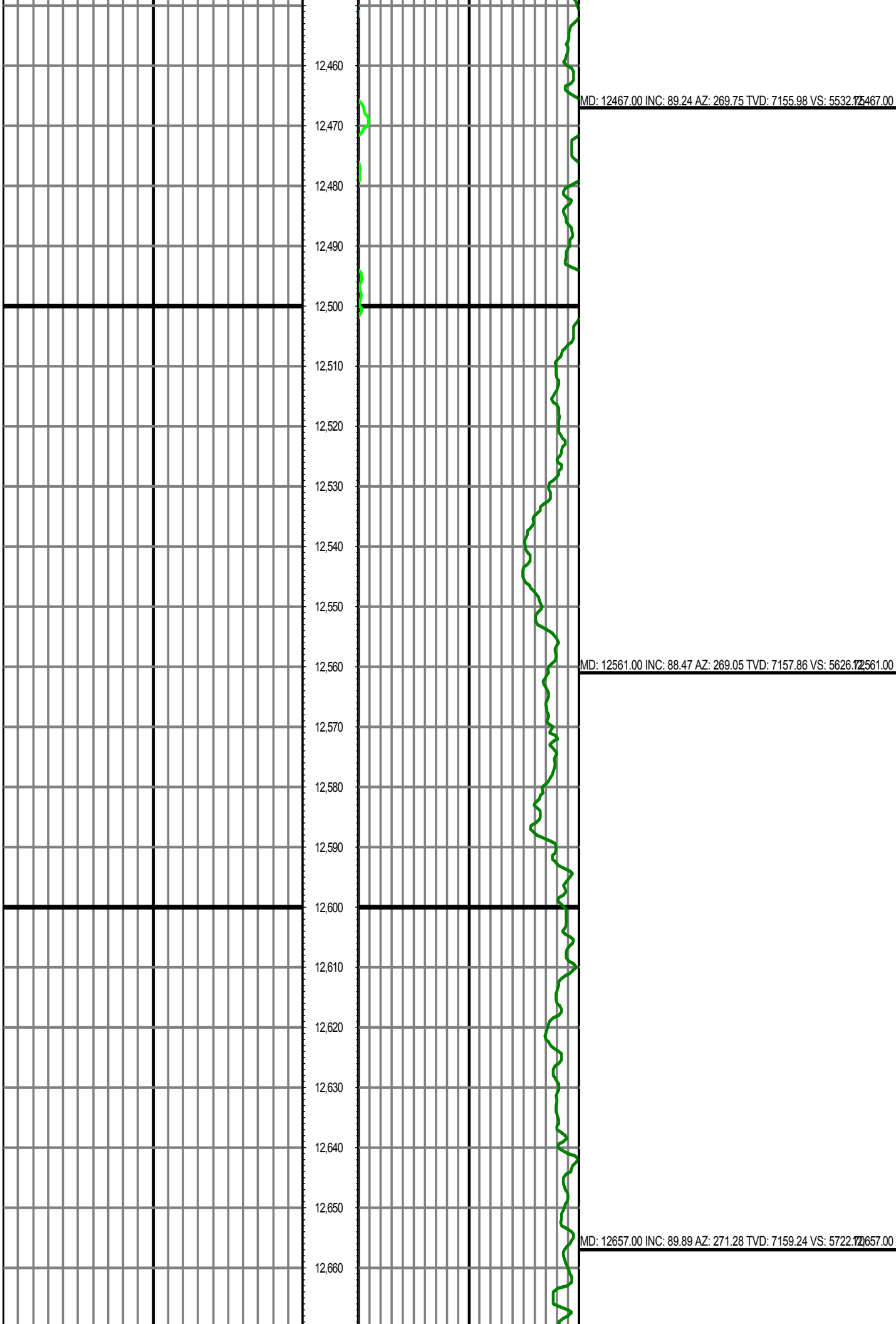
MD: 11613.00 INC: 90.72 AZ: 268.19 TVD: 7156.90 VS: 4678.86 613.00

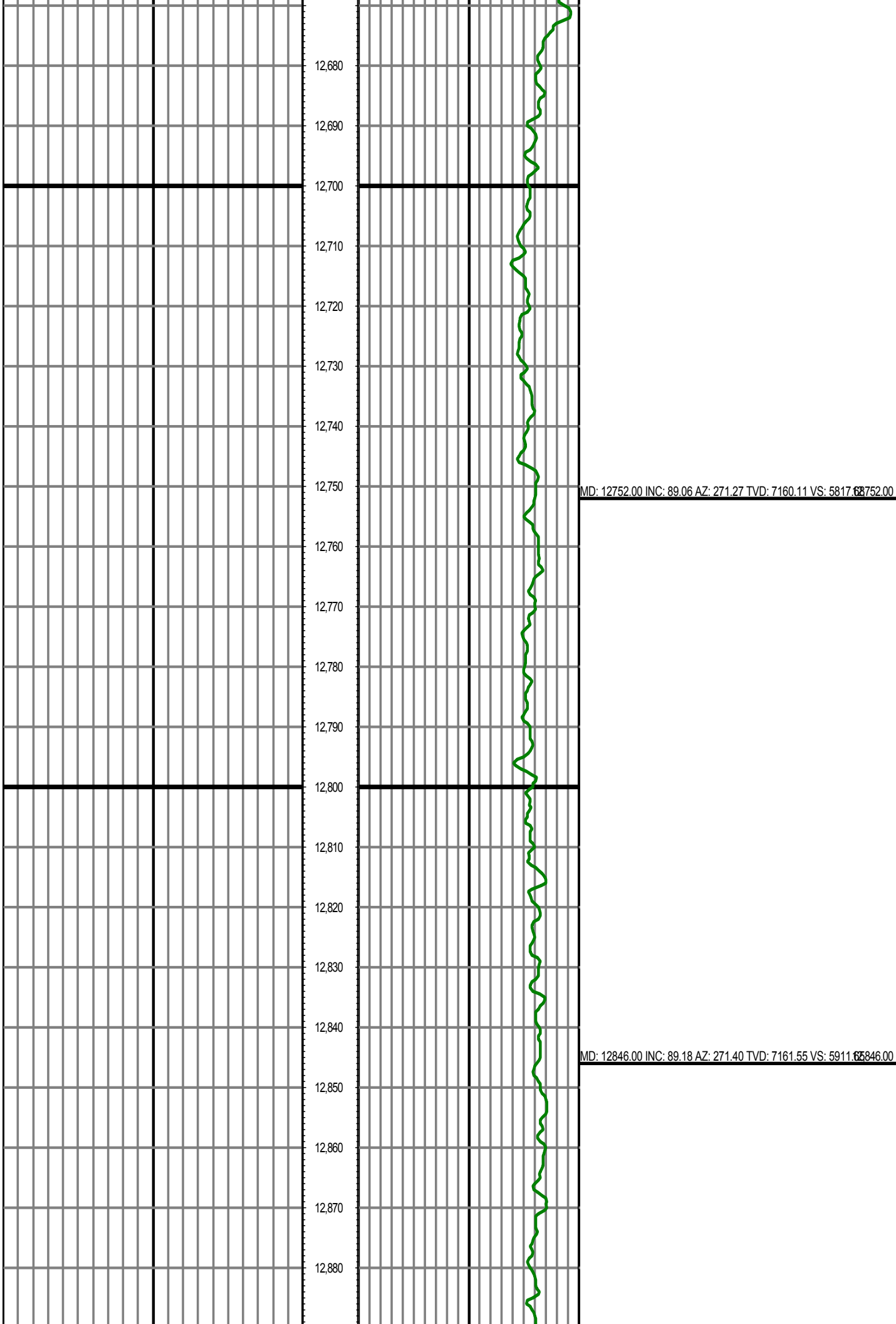
MD: 11707.00 INC: 90.12 AZ: 270.75 TVD: 7156.21 VS: 4772.88 707.00

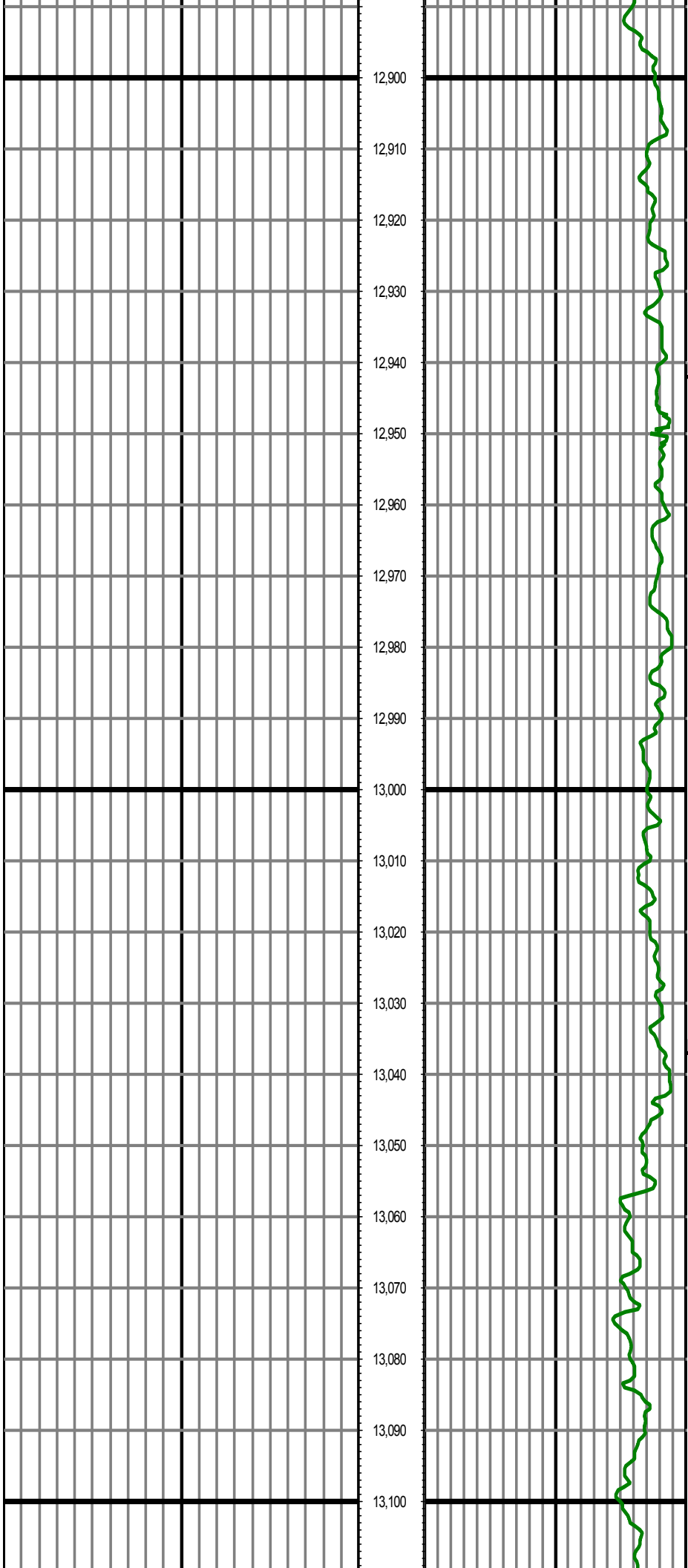






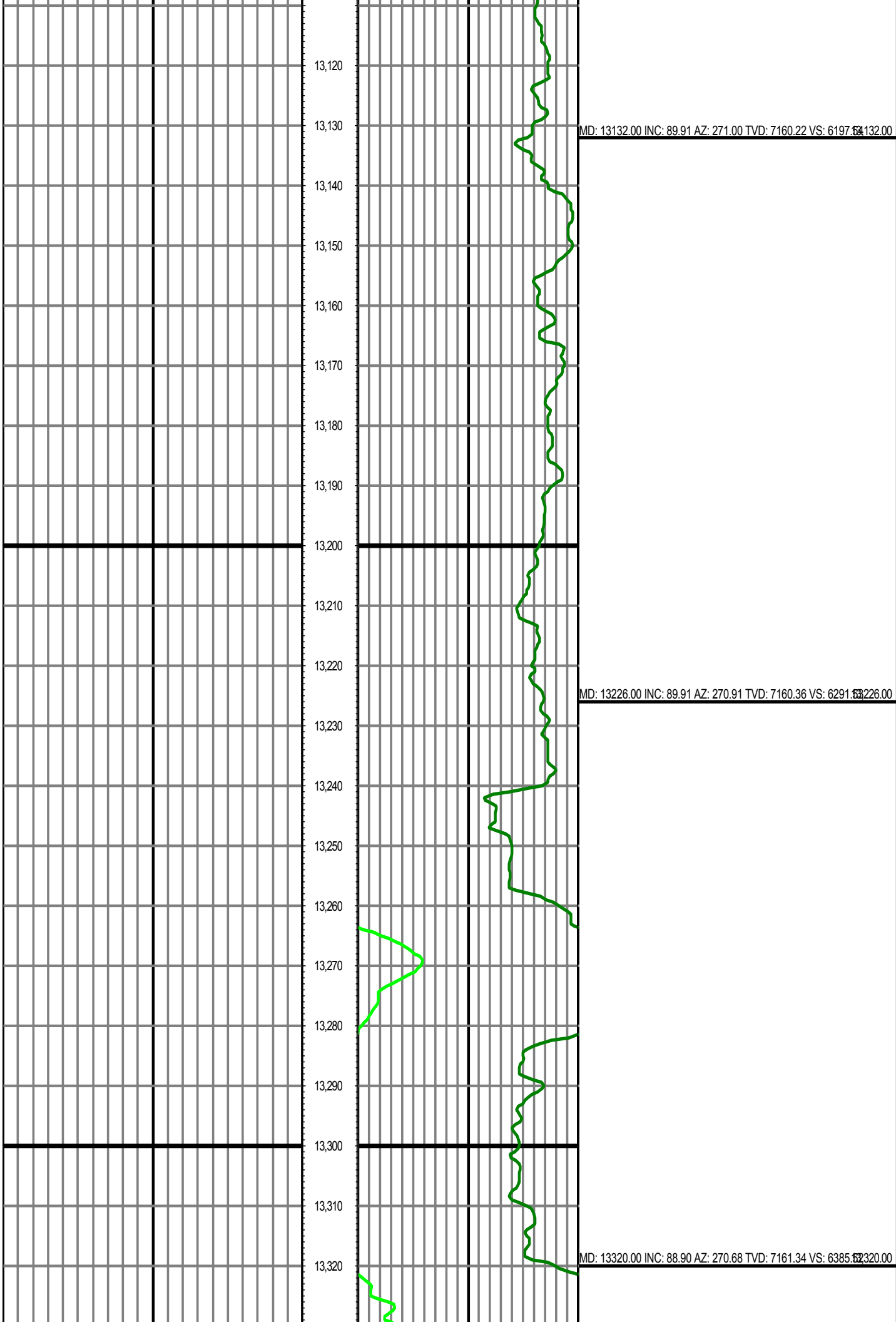


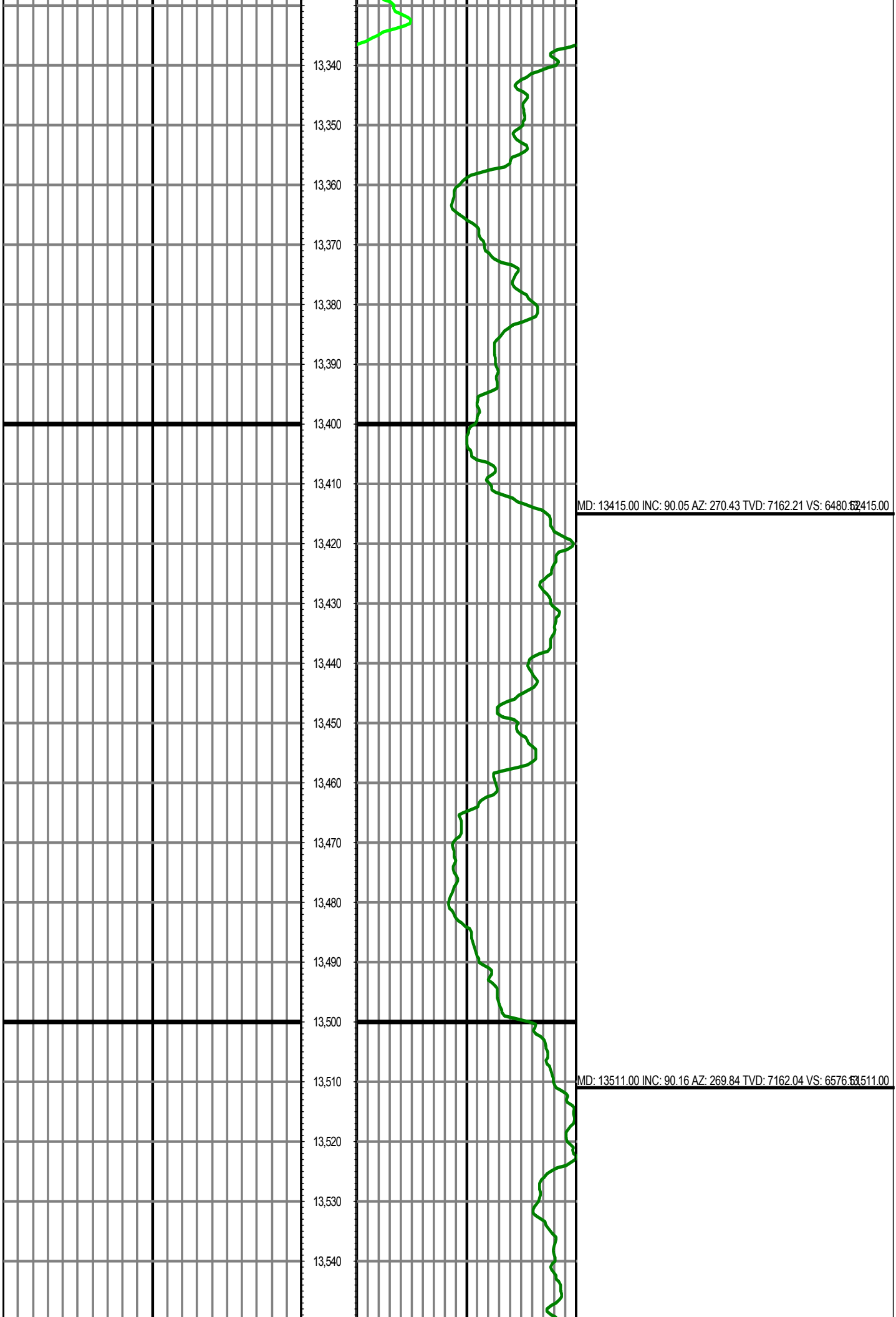


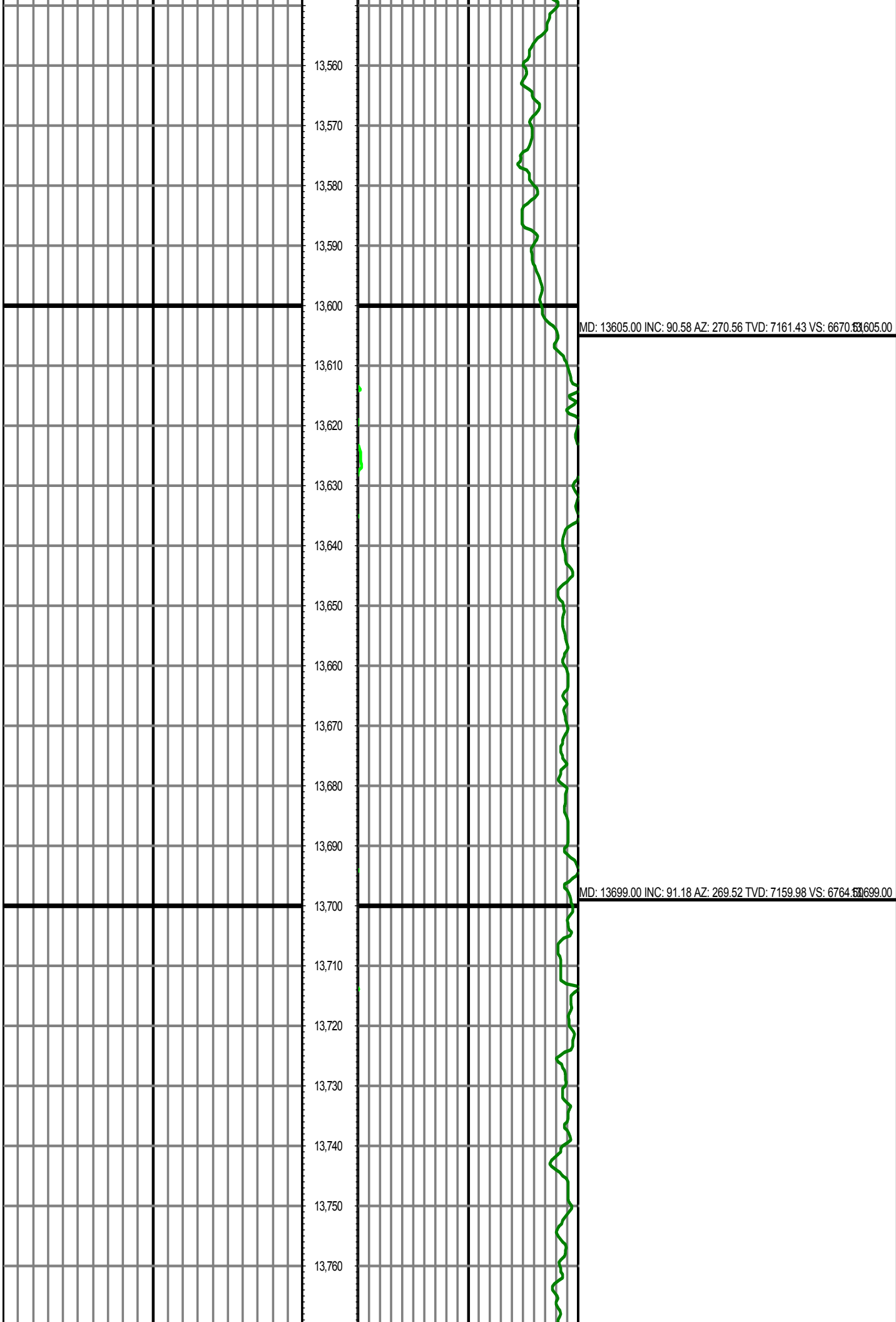


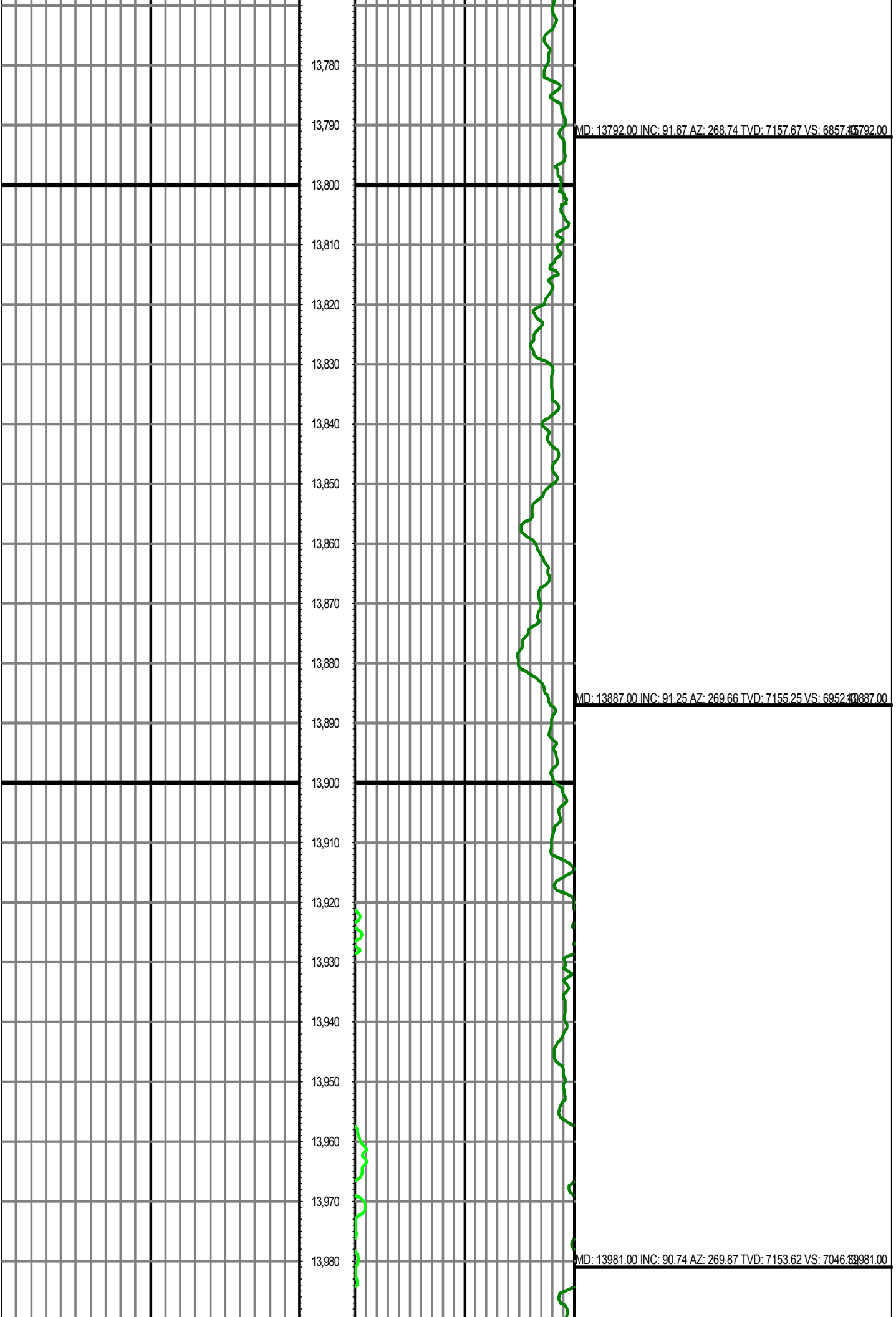
MD: 12942.00 INC: 90.60 AZ: 272.12 TVD: 7161.73 VS: 6007.62 12942.00

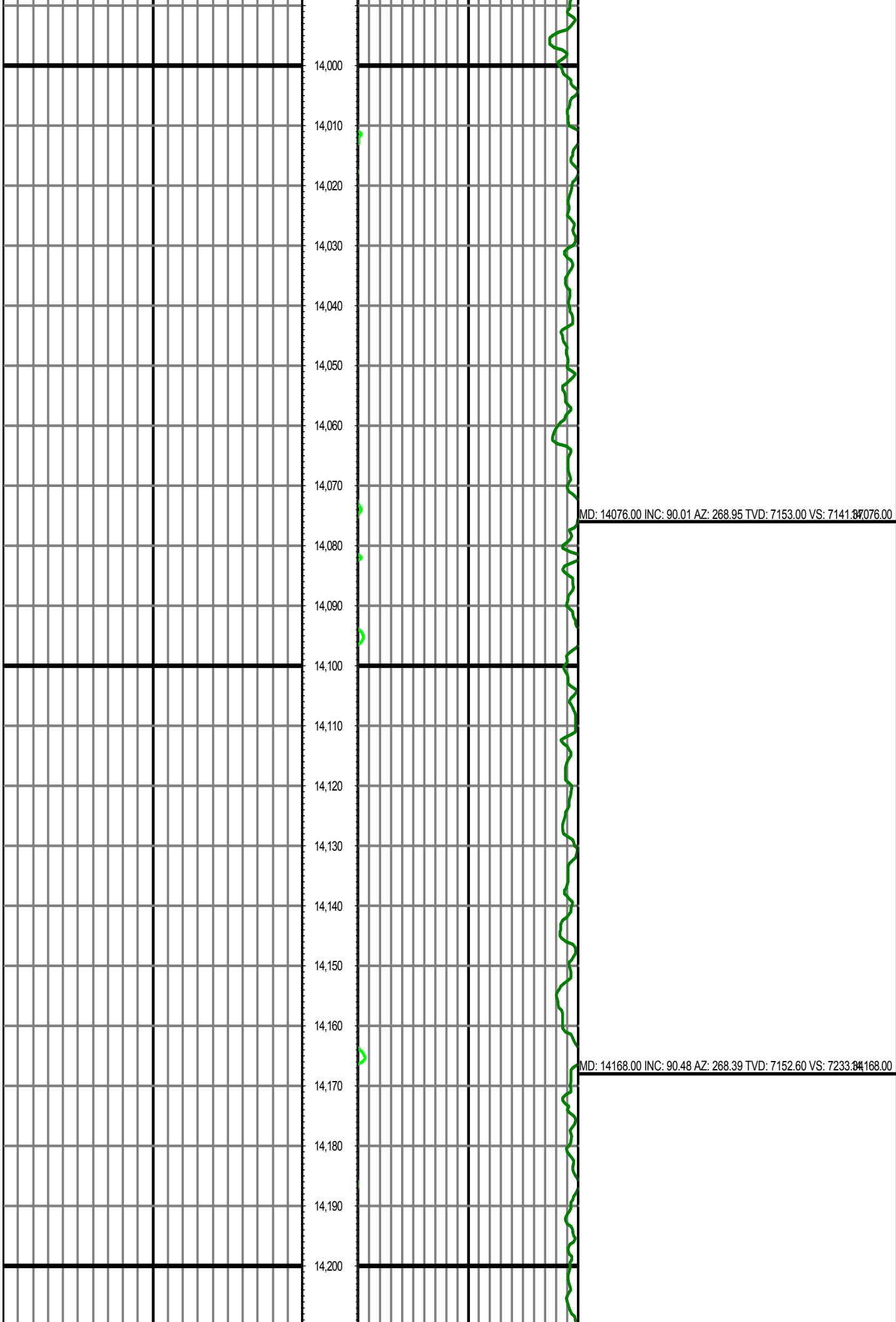
MD: 13037.00 INC: 90.66 AZ: 271.82 TVD: 7160.69 VS: 6102.66 13037.00

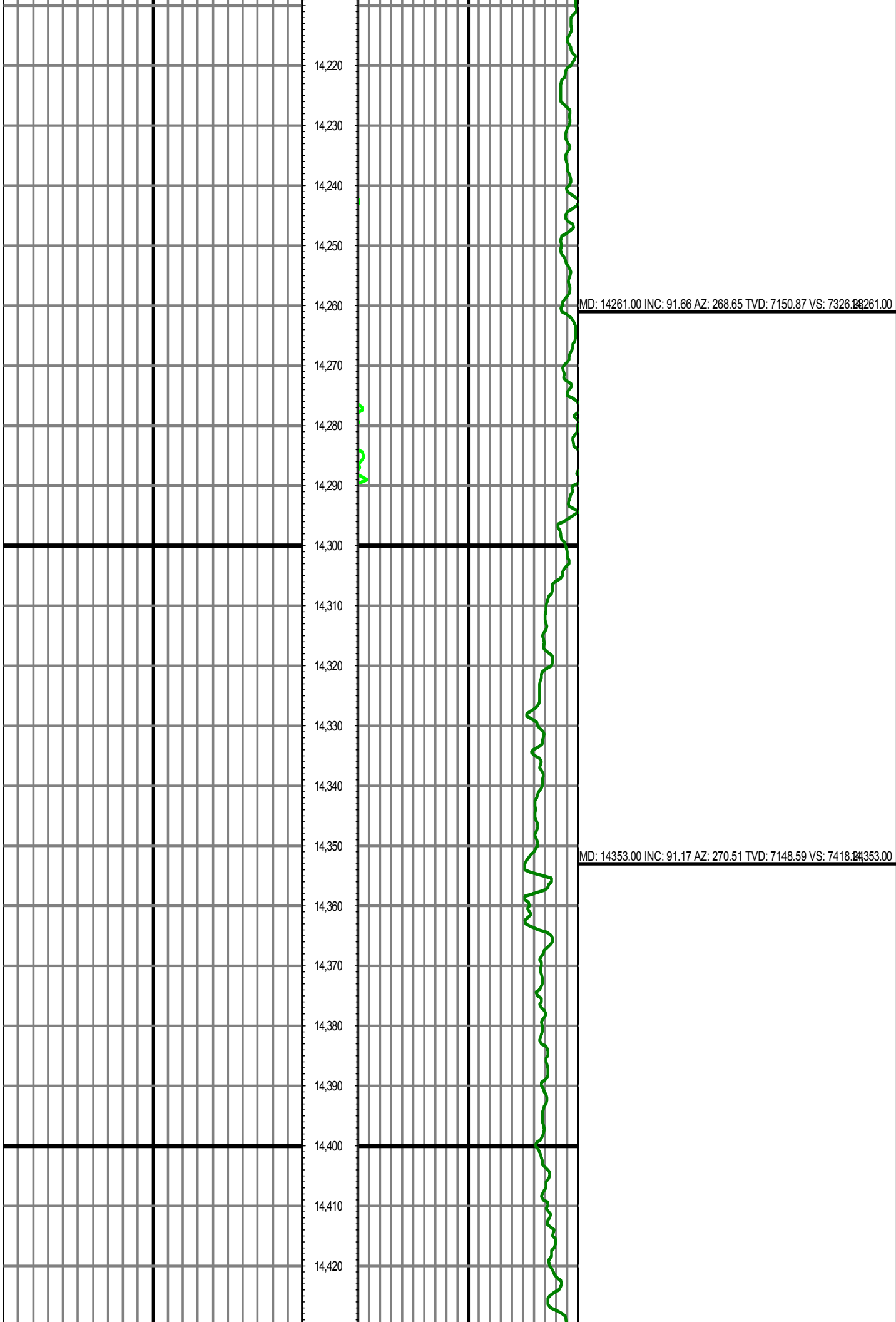


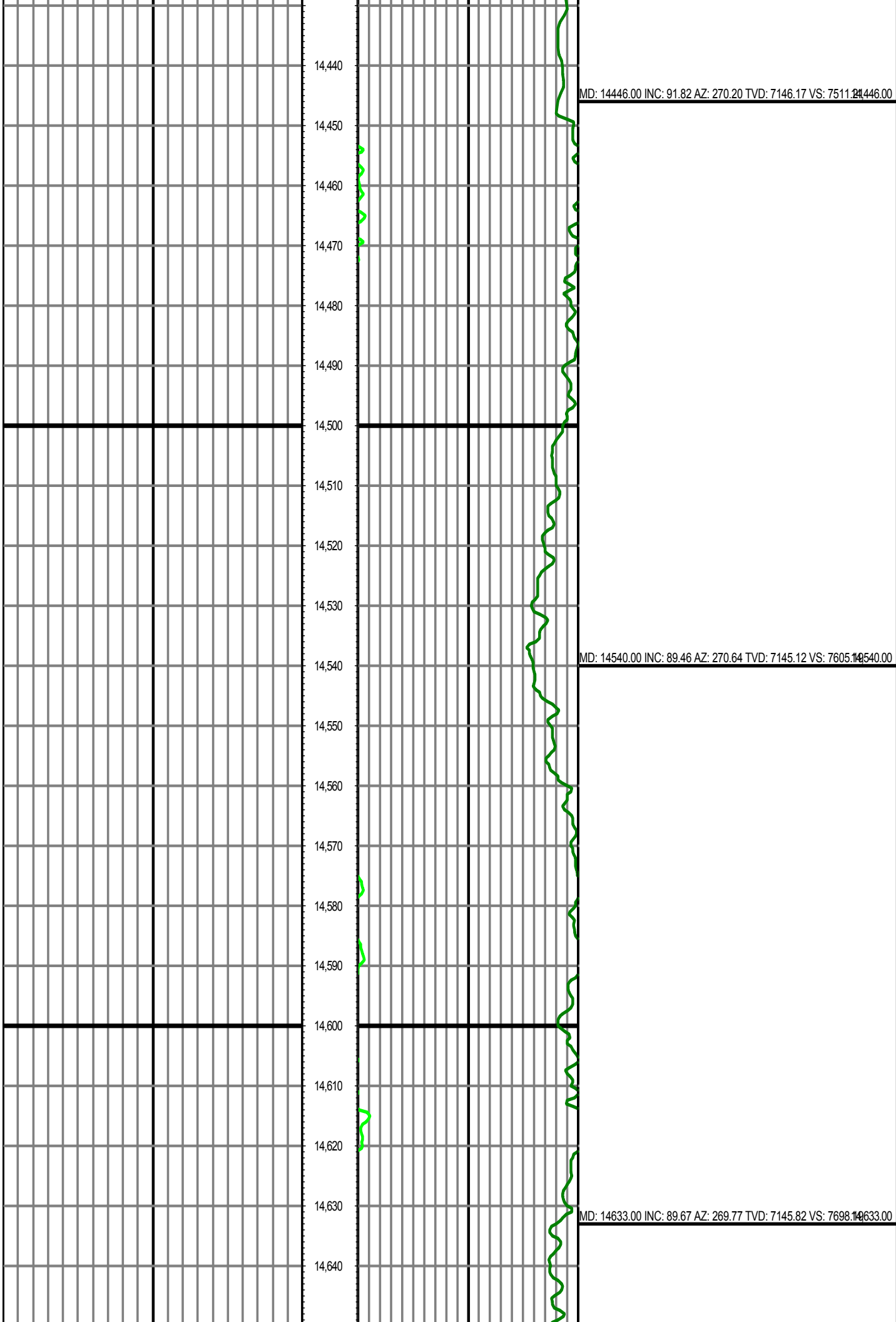


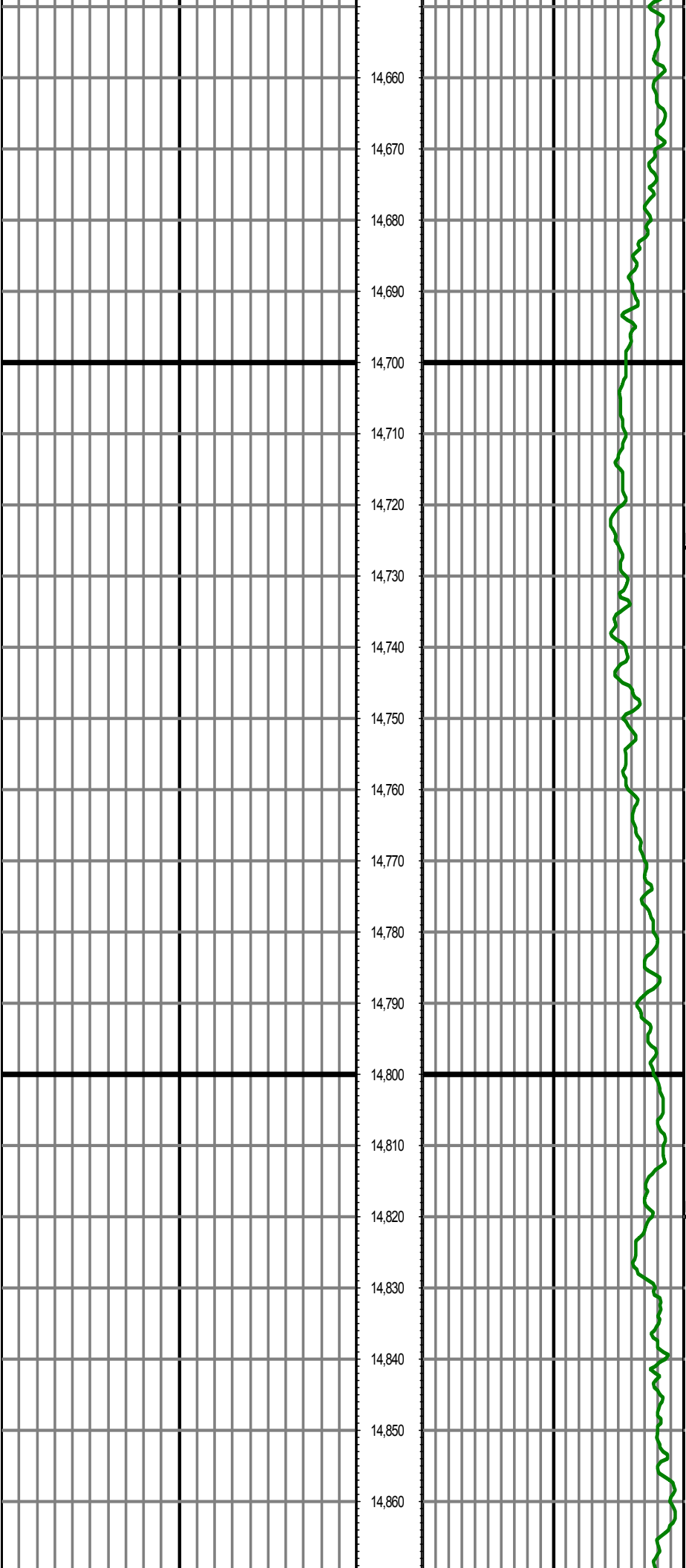












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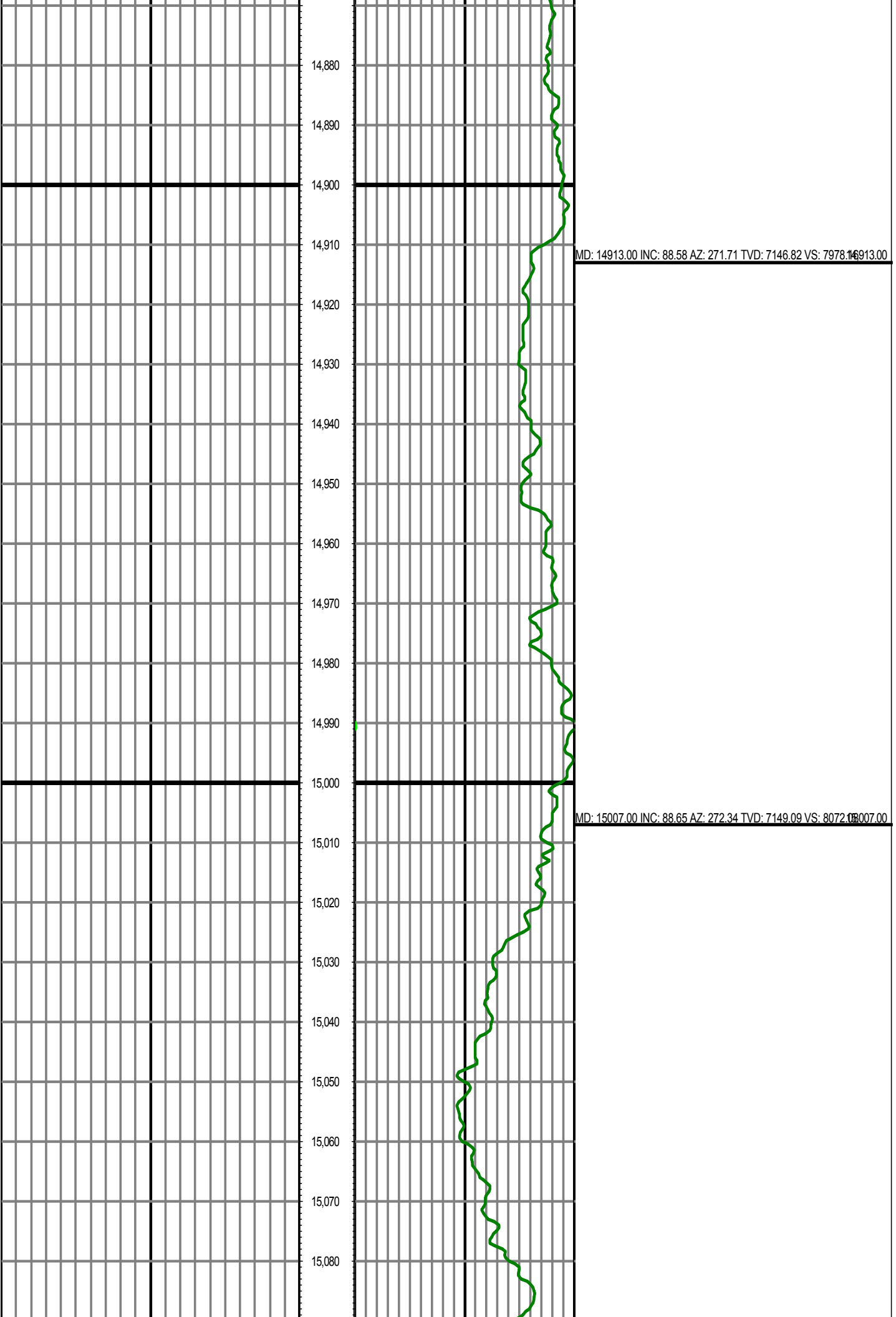
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MD: 14726.00 INC: 90.45 AZ: 269.39 TVD: 7145.73 VS: 7791.14 14726.00

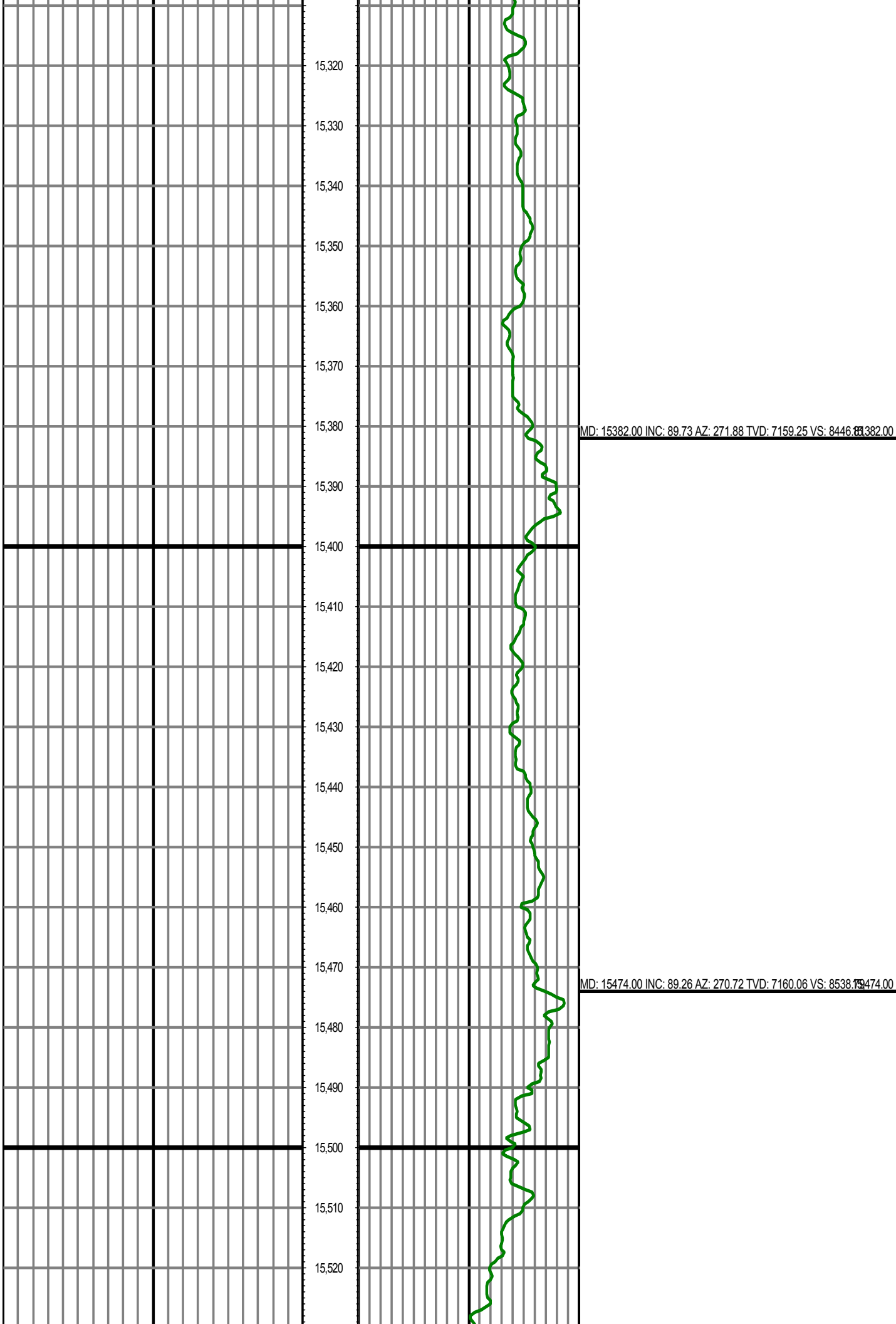
MD: 14820.00 INC: 89.81 AZ: 270.22 TVD: 7145.51 VS: 7885.14 14820.00

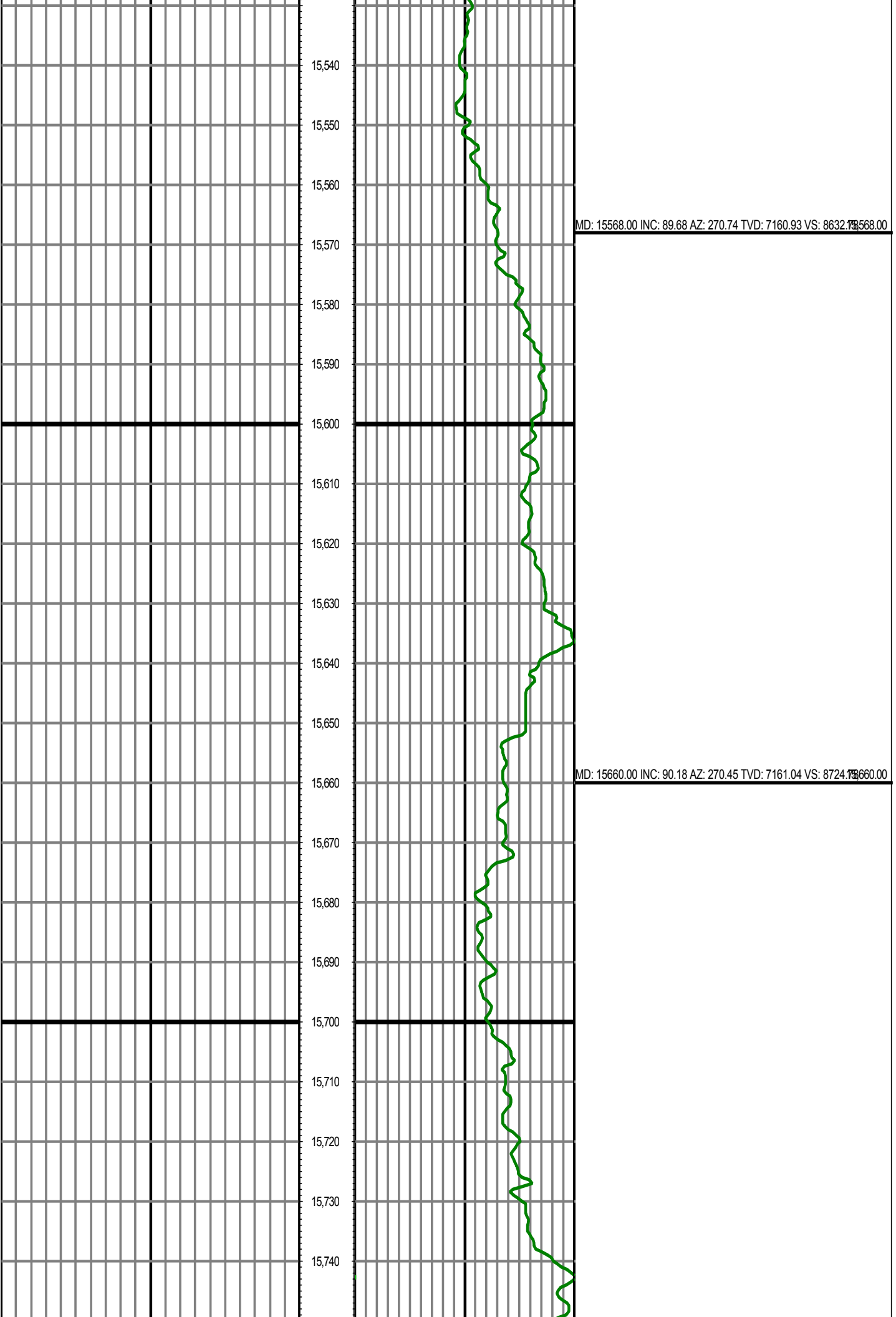


MD: 15102.00 INC: 87.97 AZ: 271.68 TVD: 7151.89 VS: 8167.05 15102.00

MD: 15196.00 INC: 87.19 AZ: 271.10 TVD: 7155.86 VS: 8260.85 15196.00

MD: 15288.00 INC: 89.44 AZ: 271.02 TVD: 7158.57 VS: 8352.88 15288.00





MD: 15753.00 INC: 91.42 AZ: 271.37 TVD: 7159.74 VS: 8817.75 15753.00

MD: 15847.00 INC: 89.14 AZ: 270.80 TVD: 7159.28 VS: 8911.13 15847.00

MD: 15942.00 INC: 89.04 AZ: 271.32 TVD: 7160.79 VS: 9006.12 15942.00

