



Cathedral Energy Services
1949 North Pyrite Road
Casper, Wyoming 82604

145424

5":100' - MD

12/17/2014 9:05:44 AM

Oper. Company: Encana Oil & Gas
Country: US
State / Province: CO
County / Parish: Weld
Started: 11/29/2014 11:00 AM

API/UWI: 05-12338225.00
Field: DJ Basin
Well: Pratt 4G-29H
Rig: Patterson 272
Ended: 12/15/2014 10:00 AM

Gamma Ray
ROP
Well TD: 17,685'

Personnel

Day Hand: Clarke Van Oerle
Night Hand: Aaron Clark
Comp. Emp: Cathedral Energy Service

Maximum Temperature: 210°F

Location

Latitude: 40.016600
Longitude: -105.022360
Elev. GL: 5176'
Elev. DF: 28.5'
Elev. KB: 5204.5'

Log and Survey Depths Relative to Kelly Bushing (KB) Depth

Hole Data

Size	From	To
12.25	0	979
8.75	979	8551
6.125	8551	17685

Casing Data

Size	From	To
9 5/8	0	964.1
7	0	8545
4.5	0	17664.6

Bit Sizes

Size	From	To
12.25	0	979
8.75	979	8551
6.125	8551	17685

Mud Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
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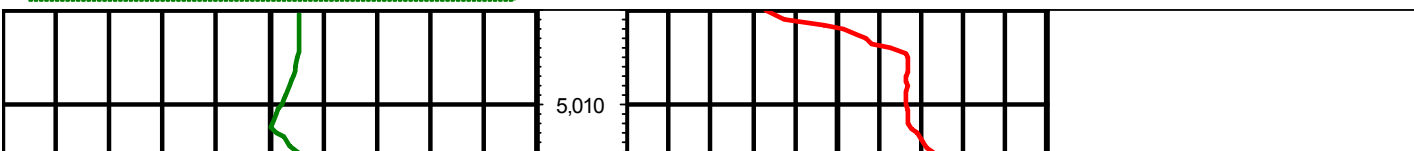
Tool Run Data

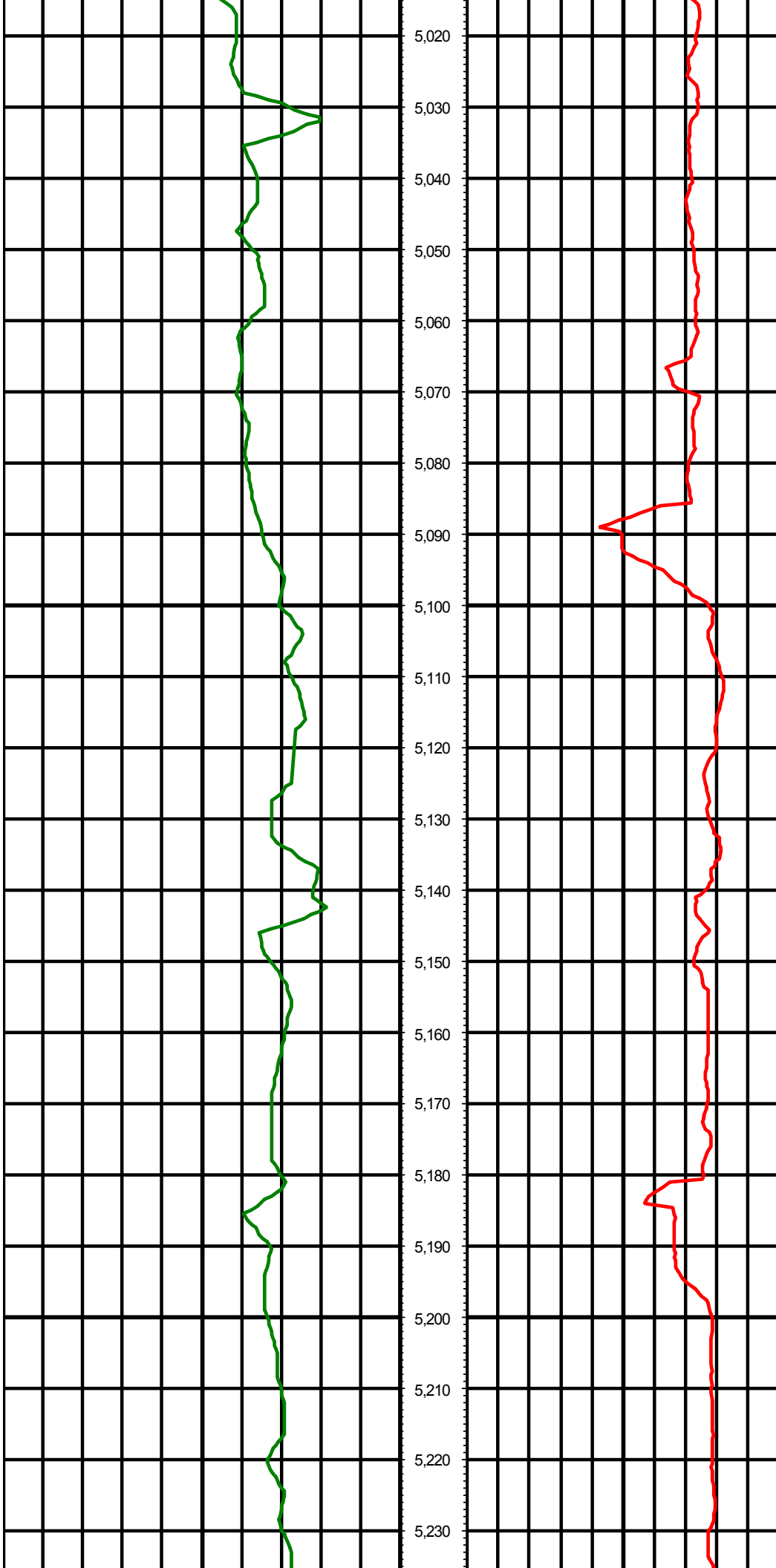
Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
281	42.09	0	11/26/2014 5:30:24 AM	0	11/27/2014 2:00:24 AM	979
281	38.07	0	11/28/2014 2:30:33 PM	979	11/30/2014 3:30:33 PM	7729
GIEKF6-01	38.07	0	11/30/2014 3:30:35 PM	7729	12/2/2014 11:30:35 AM	8551
GIEKF6-01	36.43	0	12/4/2014 12:30:43 AM	8551	12/9/2014 8:00:43 AM	12729
GIEKF6-01	39.33	0	12/9/2014 11:00:40 AM	12729	12/17/2014 9:00:40 AM	17685

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 Gamma Ray (API) 150.00 MD 0.00 ROP (FT/HR) 600.00 Surveys (MD/INC/AZ)

150.00 2 300.00 FT





MD: 5031.00 INC: 9.60 AZ: 135.50

MD: 5125.00 INC: 9.40 AZ: 135.80

MD: 5219.00 INC: 8.80 AZ: 134.20



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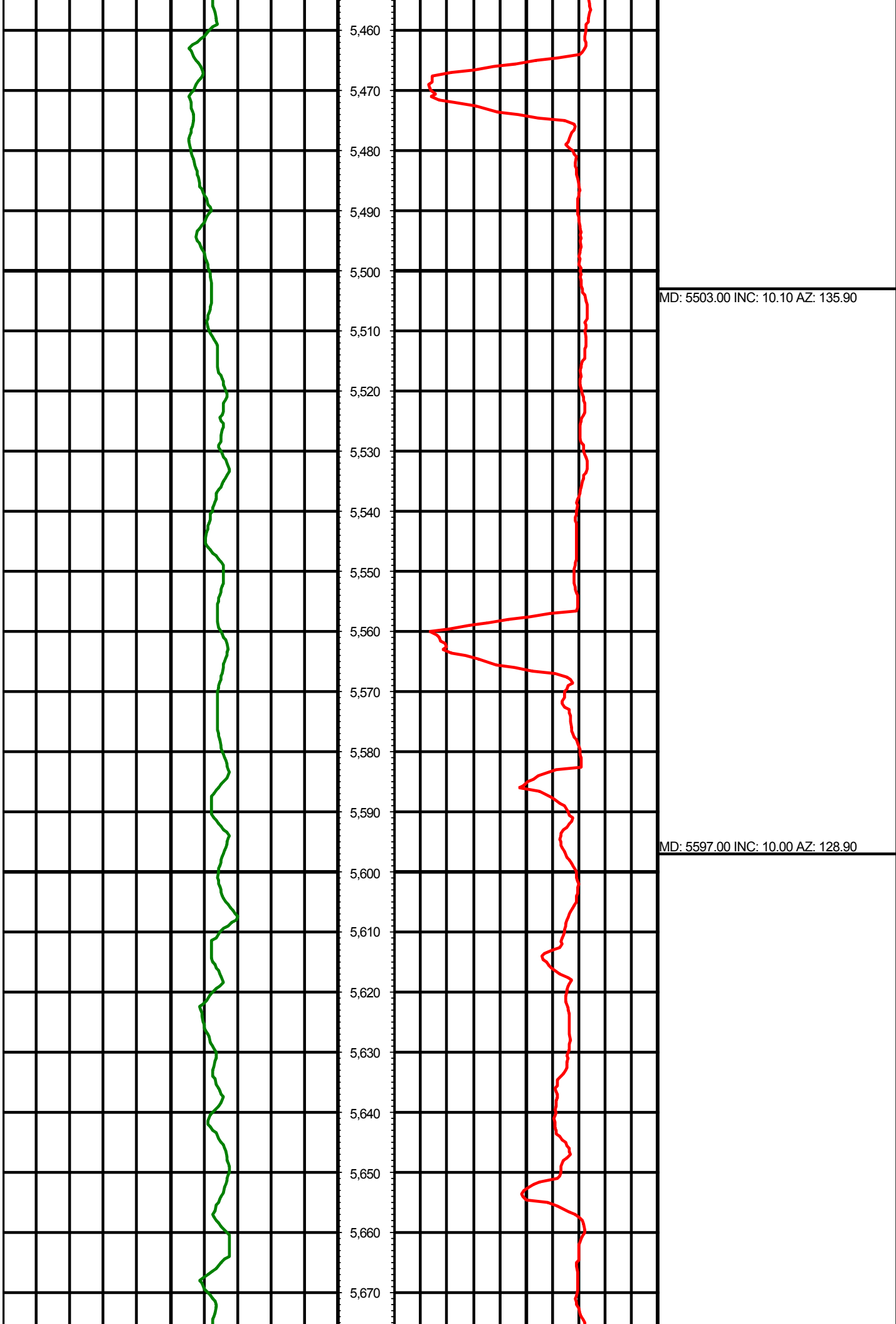
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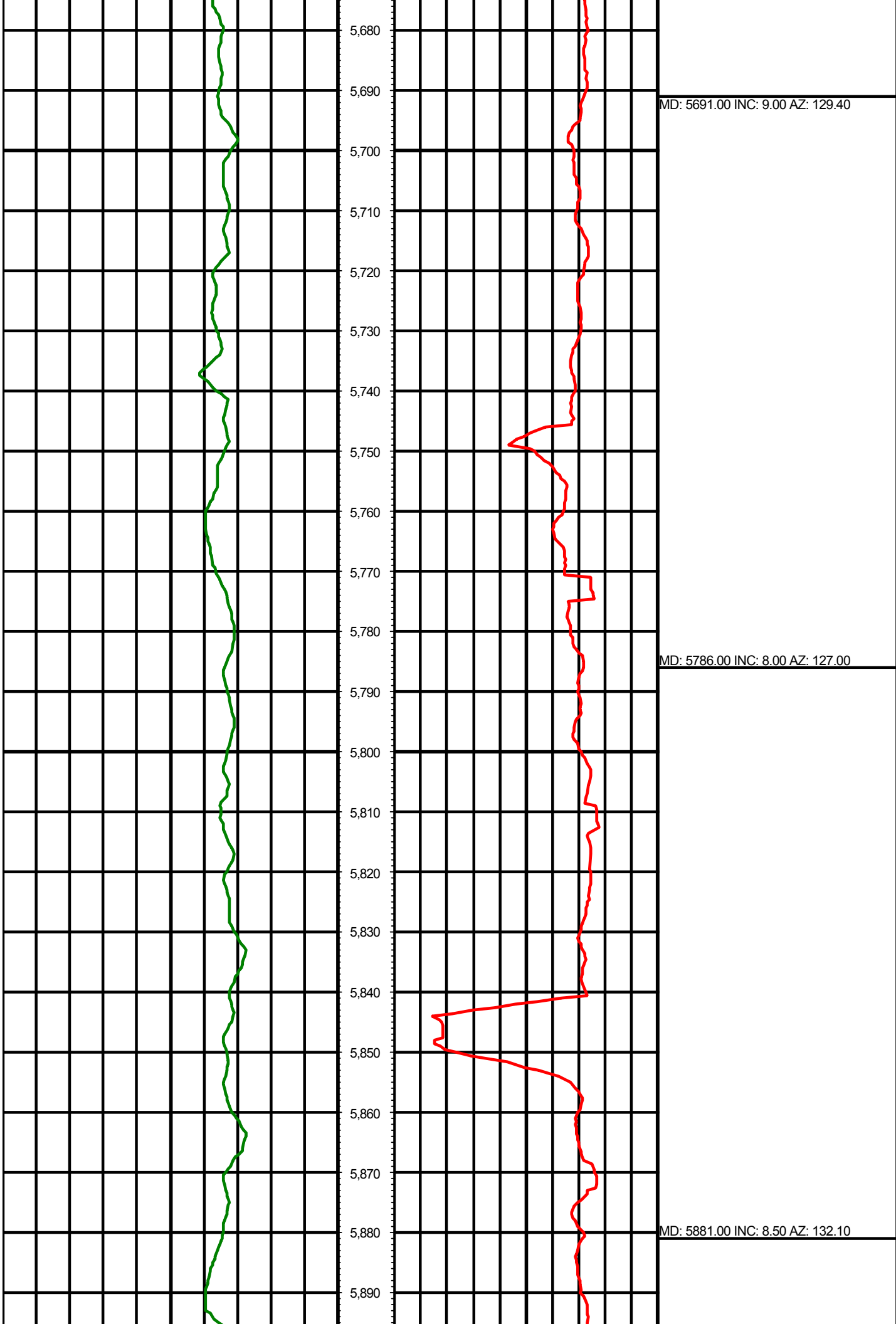
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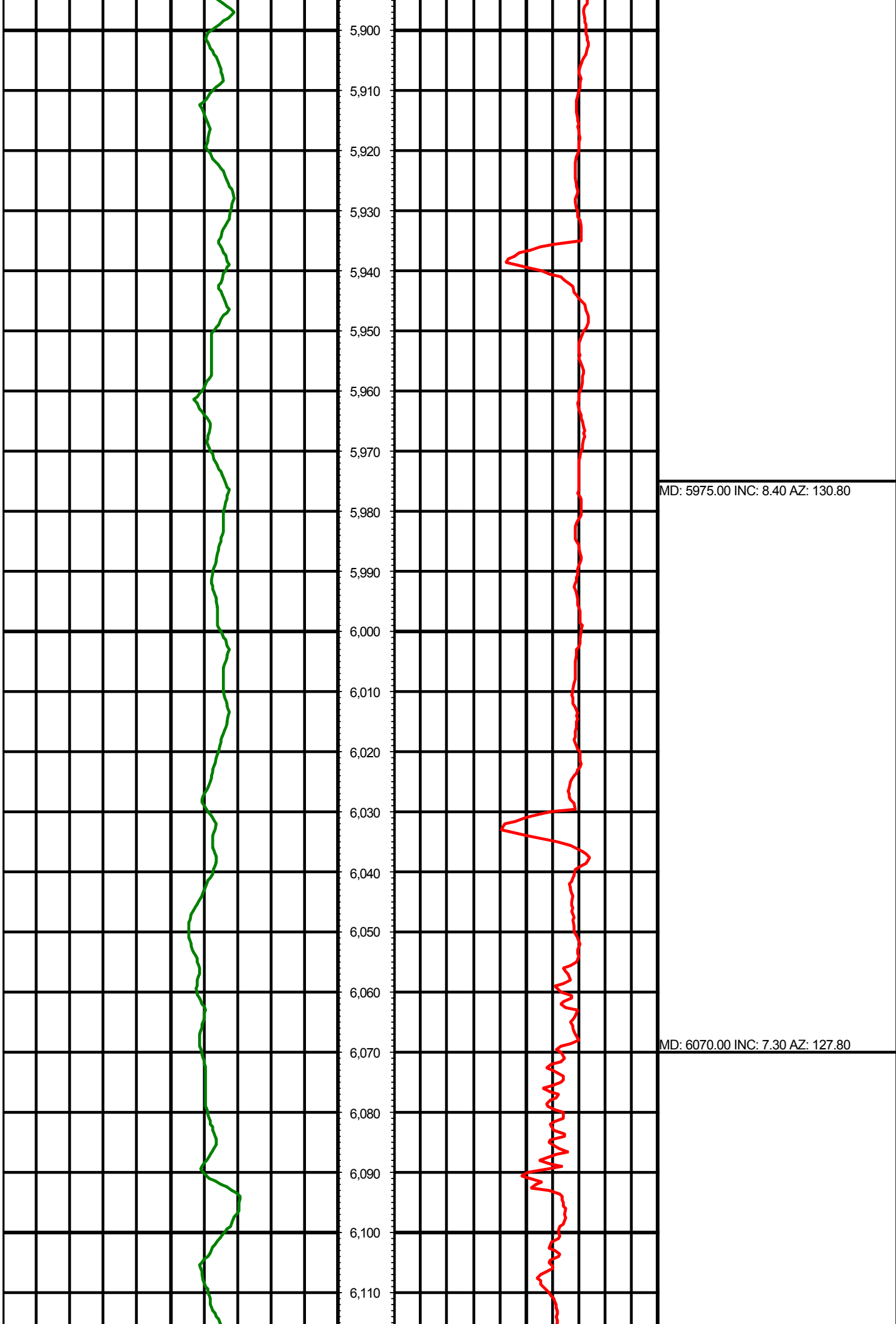
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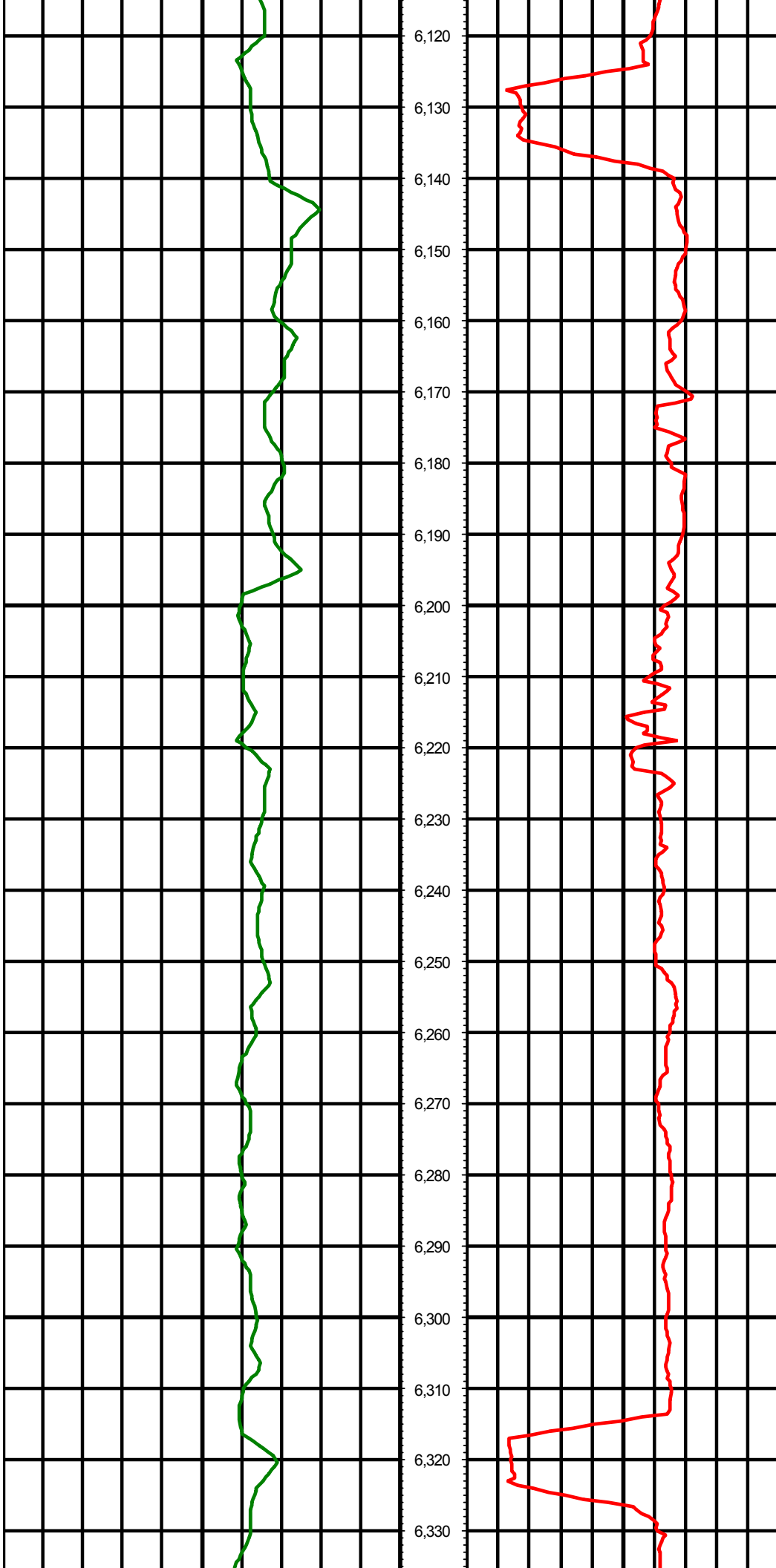
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MD: 5408.00 INC: 8.20 AZ: 132.90



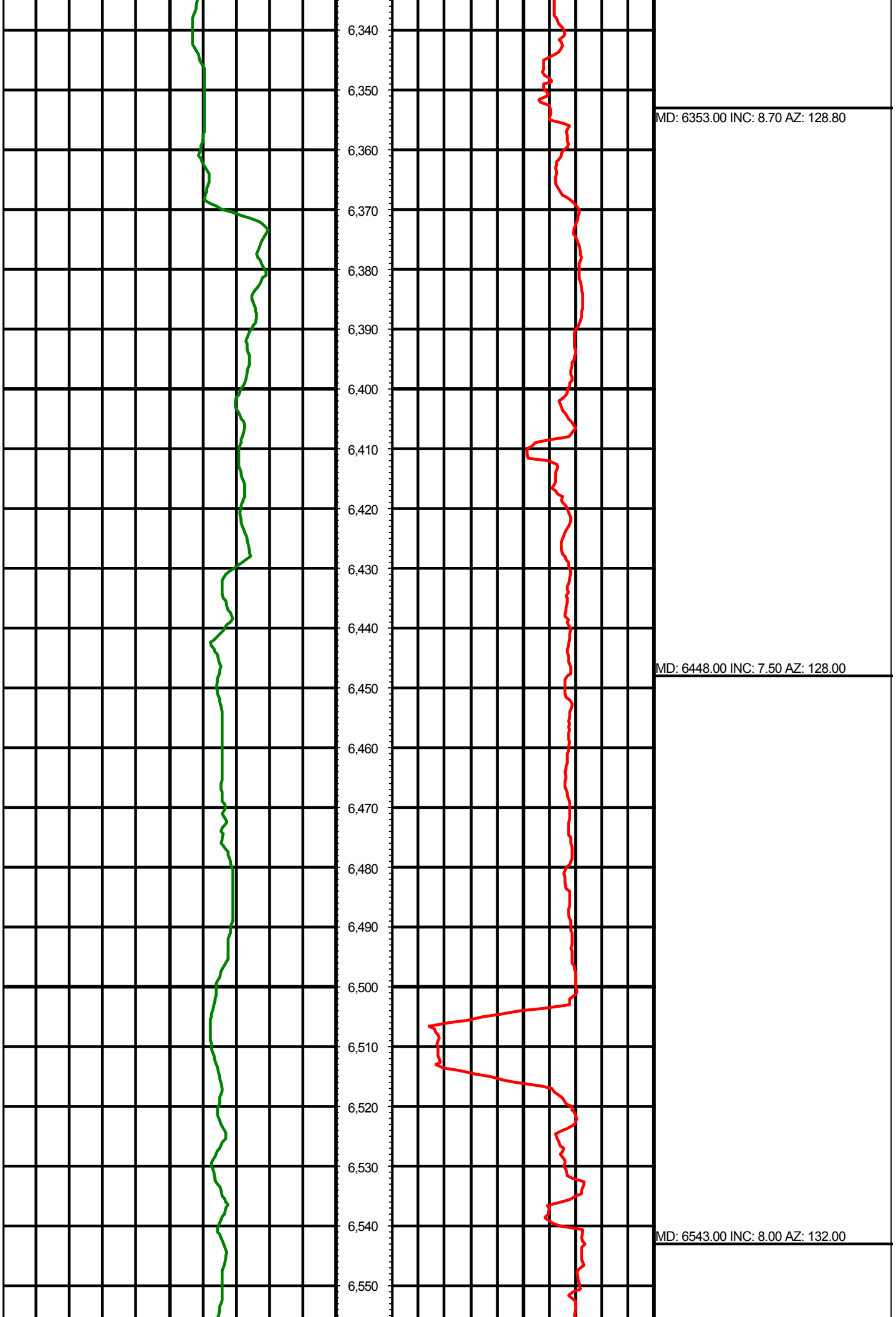


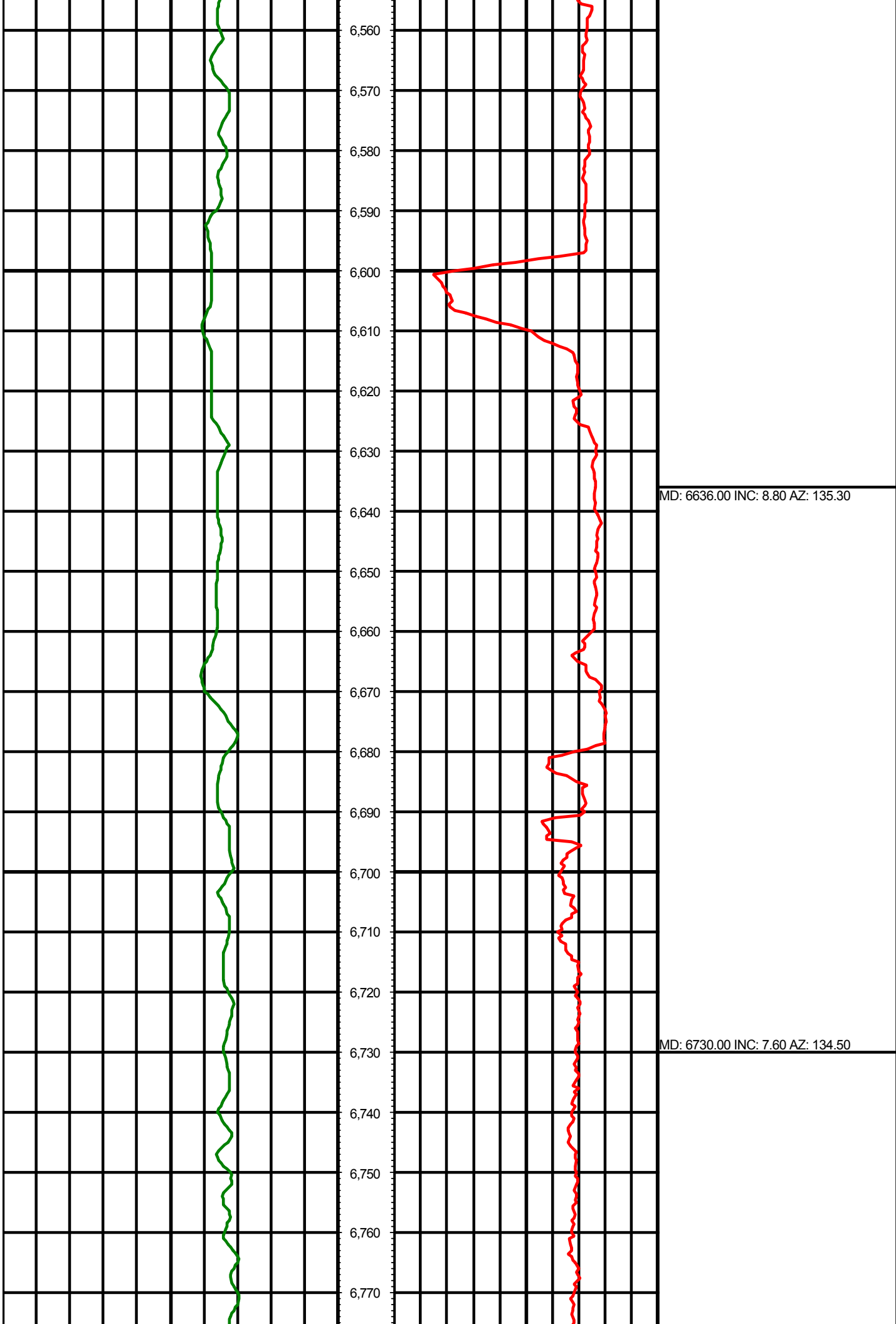


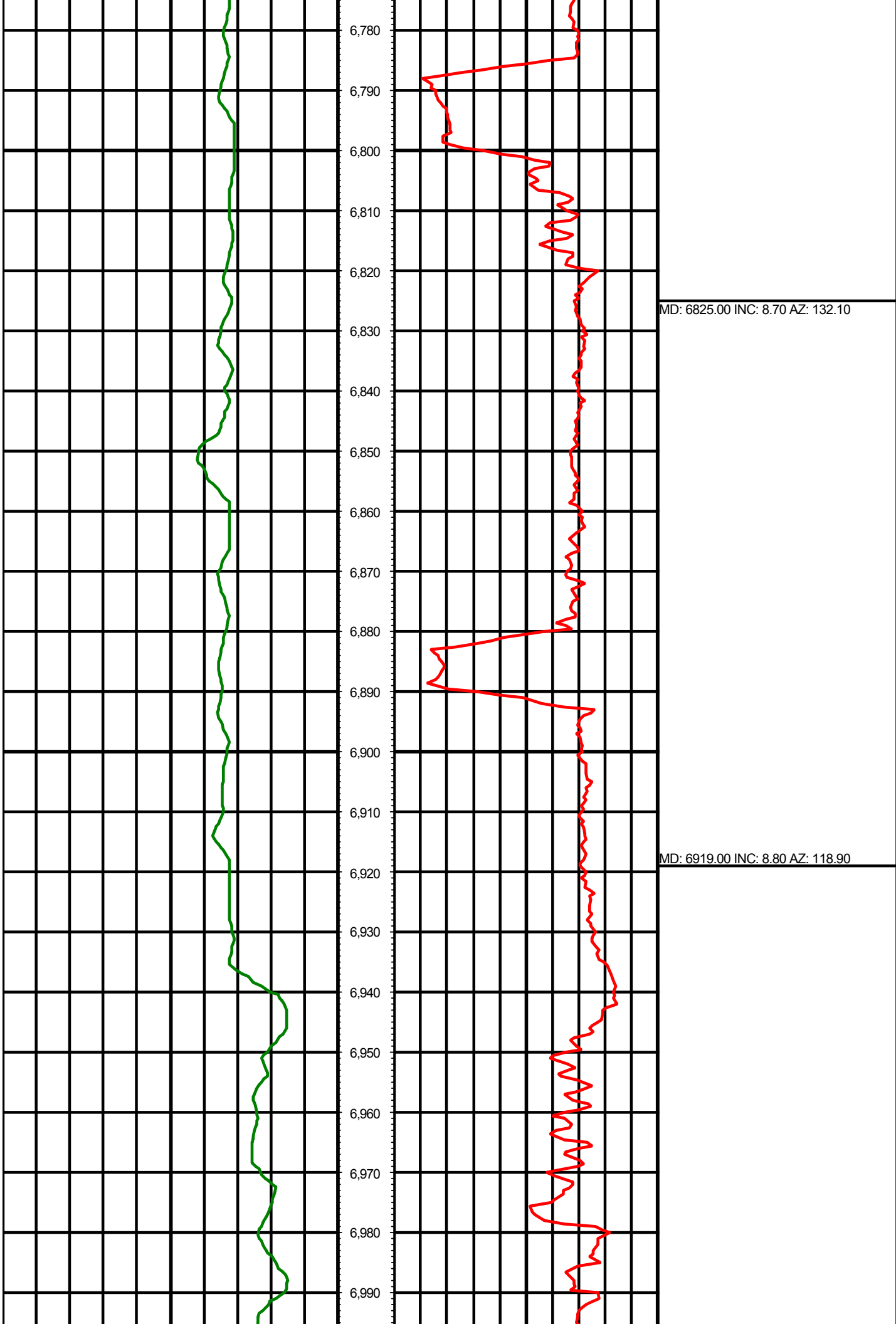


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MD: 6258.00 INC: 8.00 AZ: 125.00

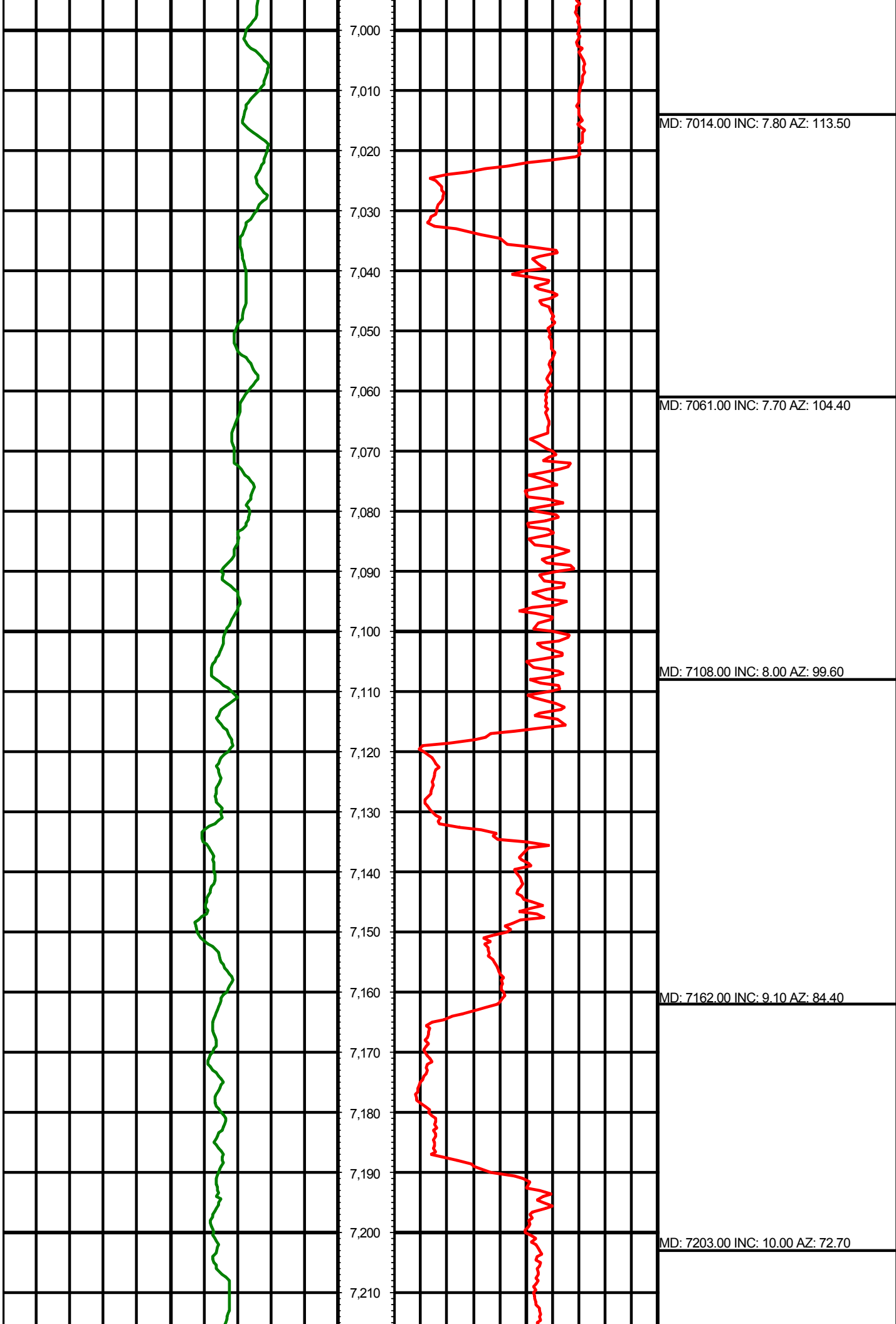


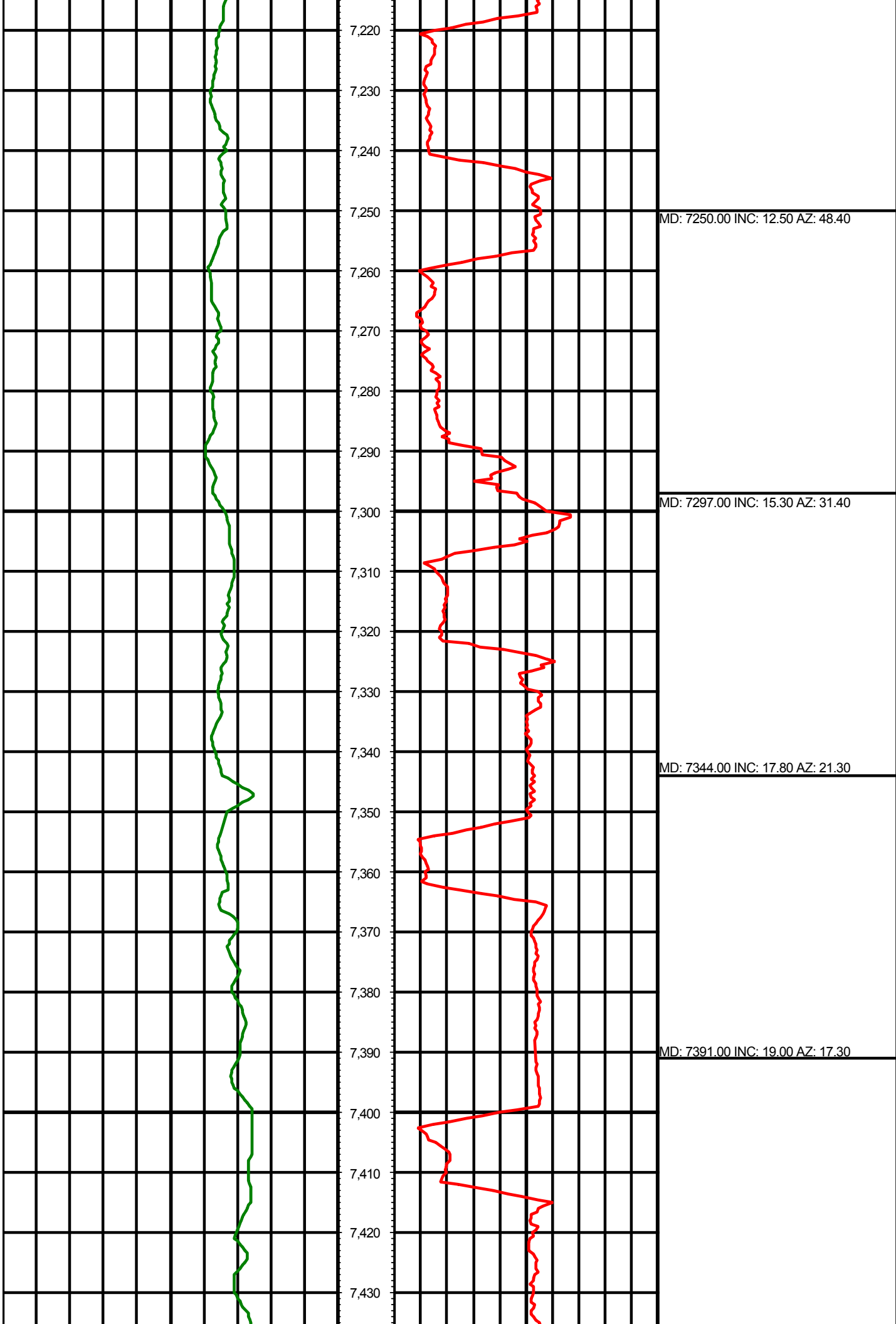


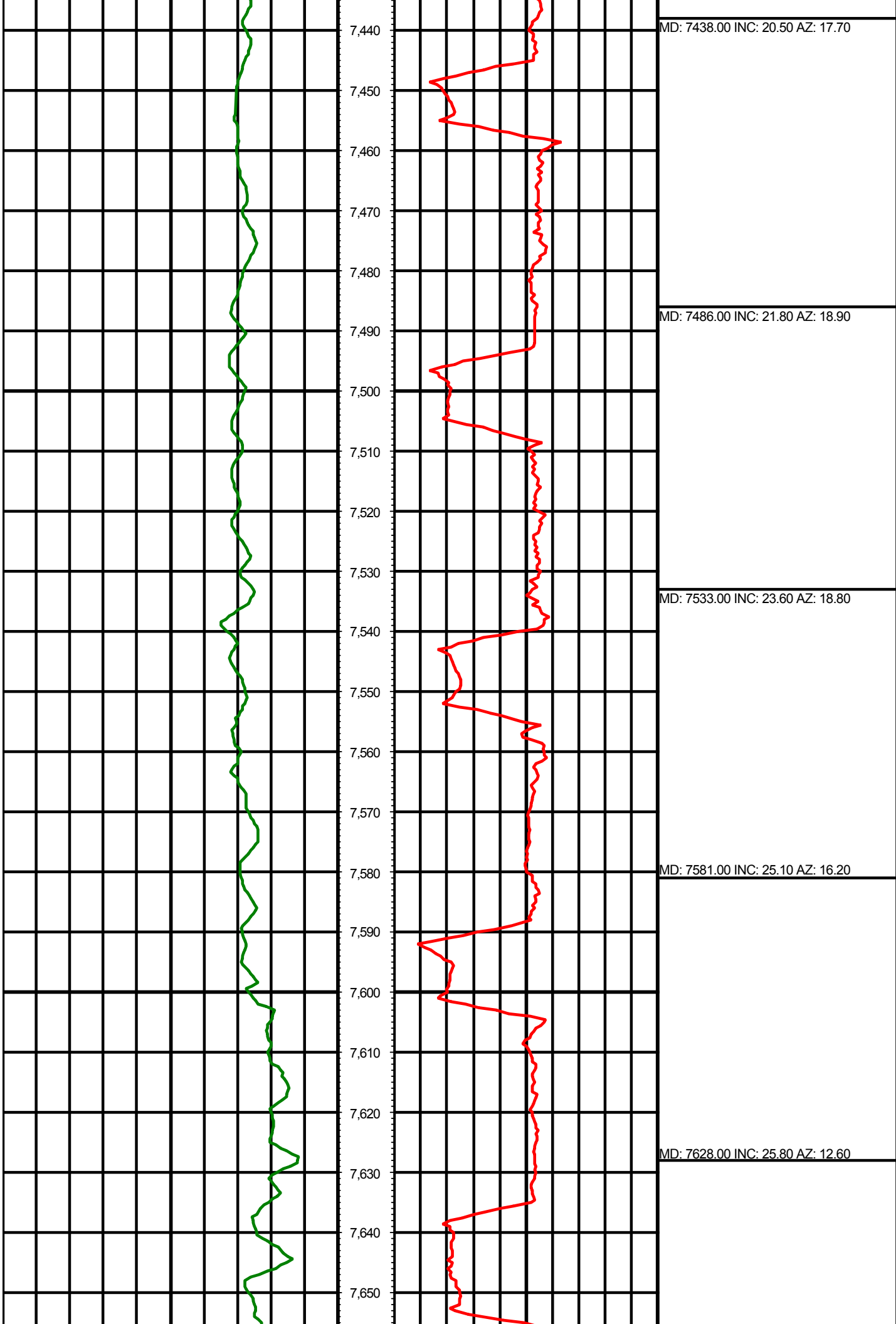


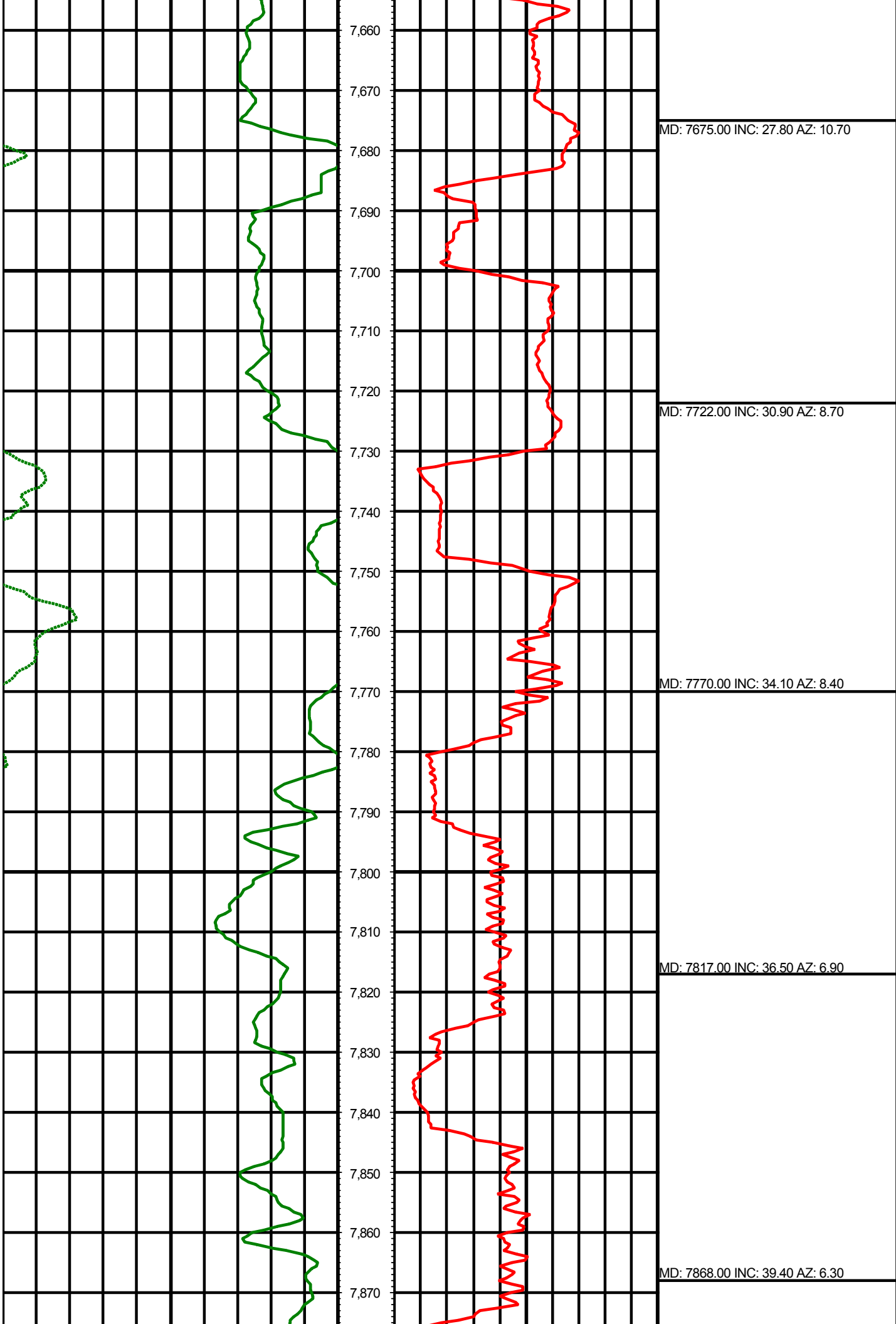
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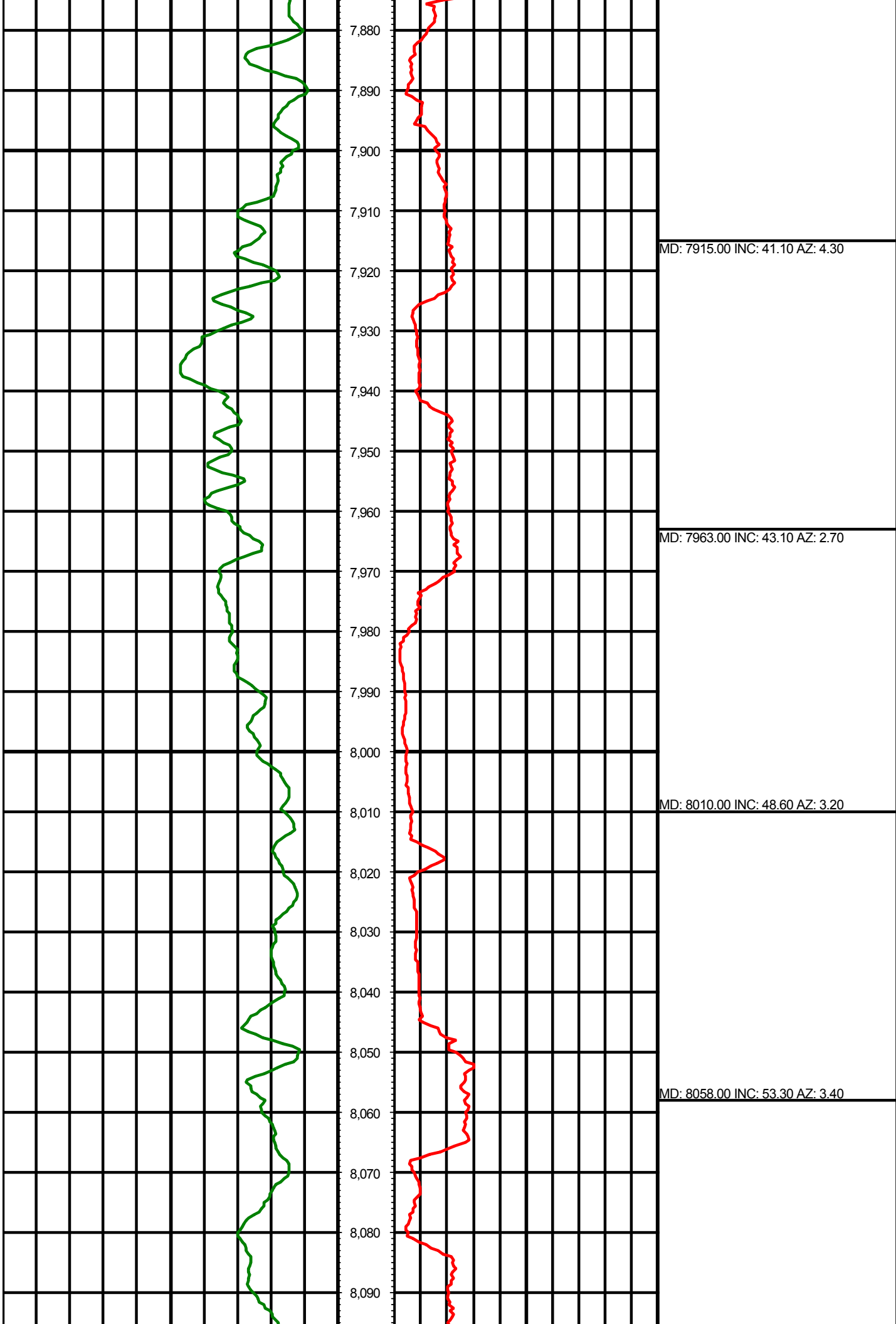
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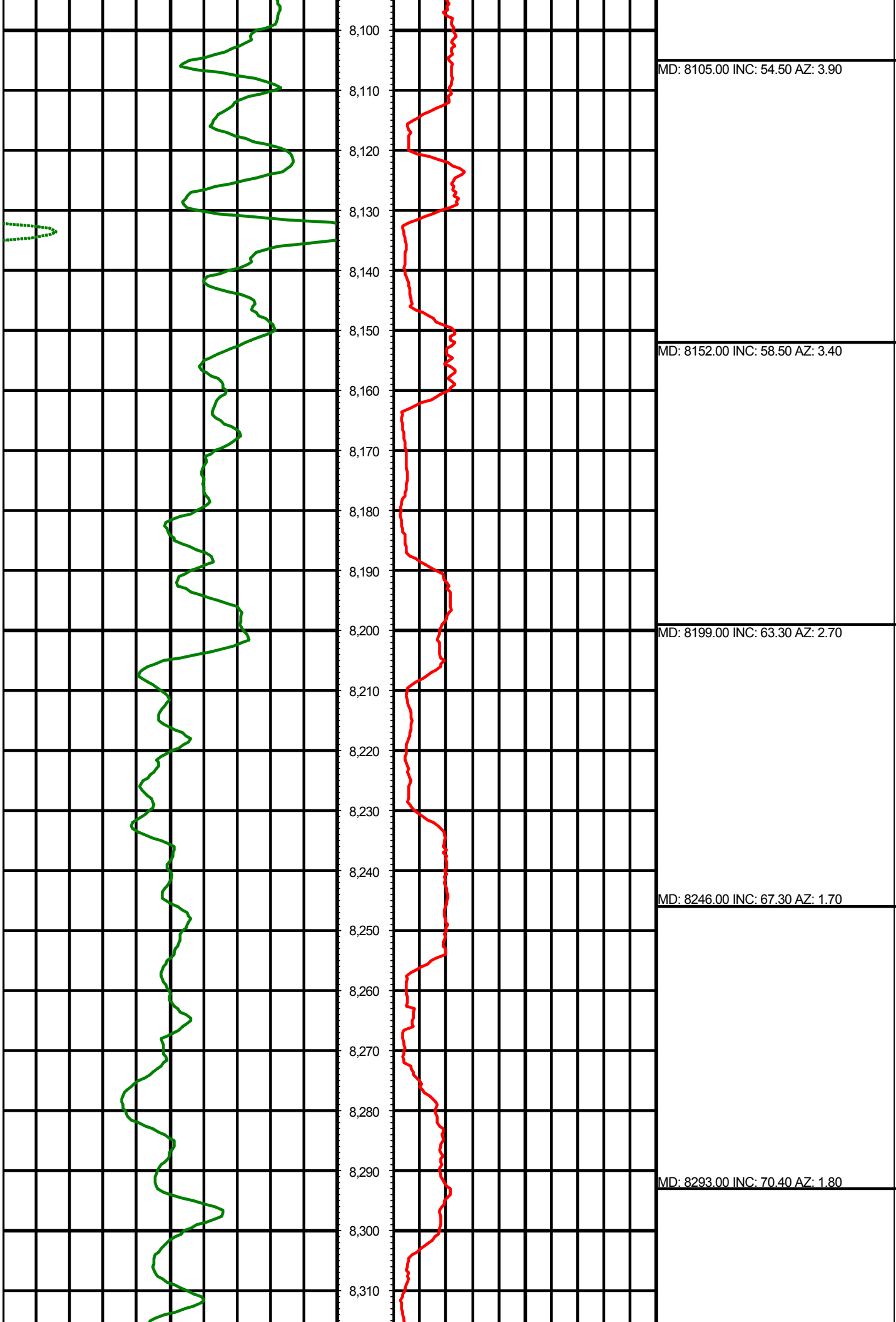


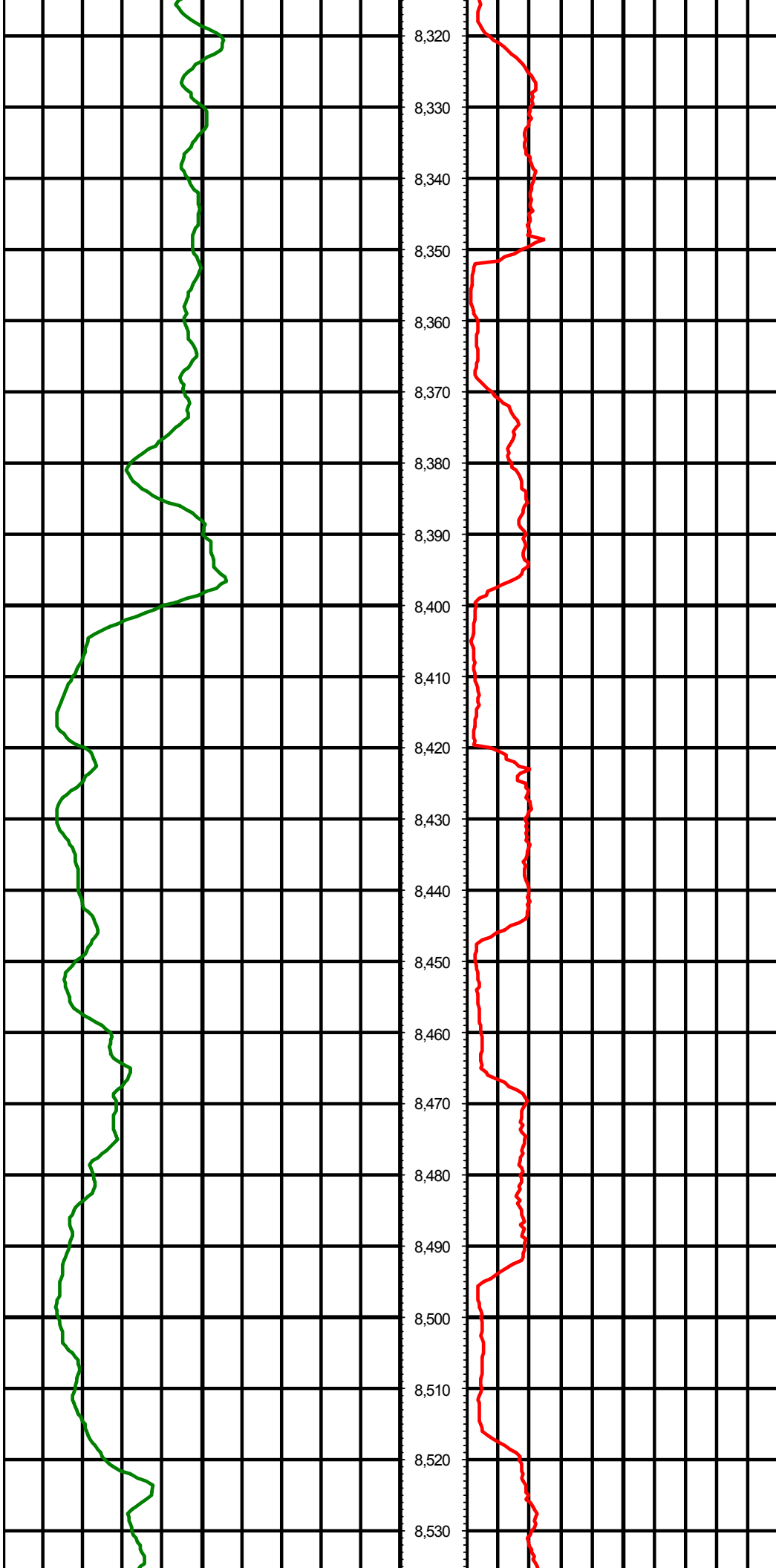


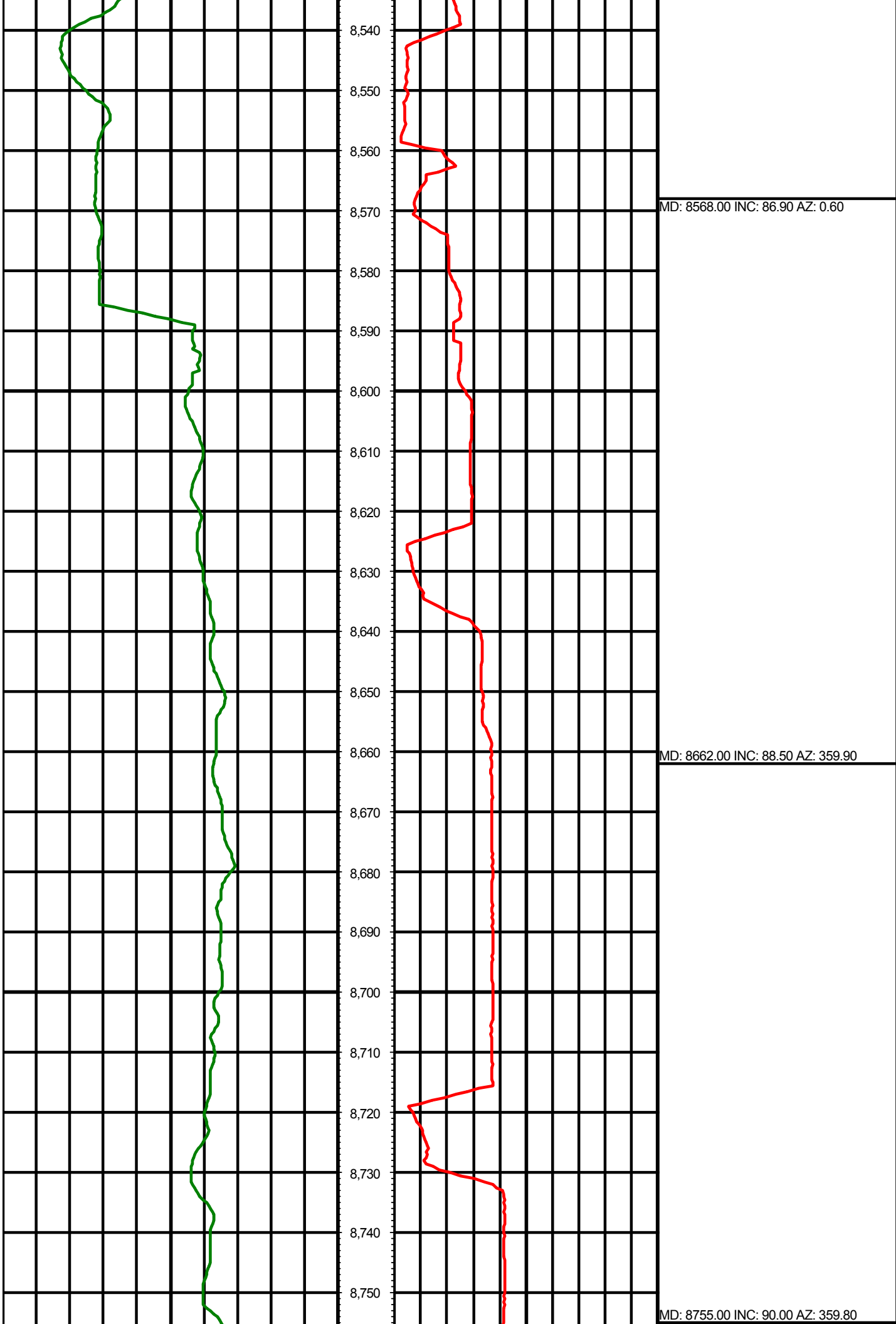


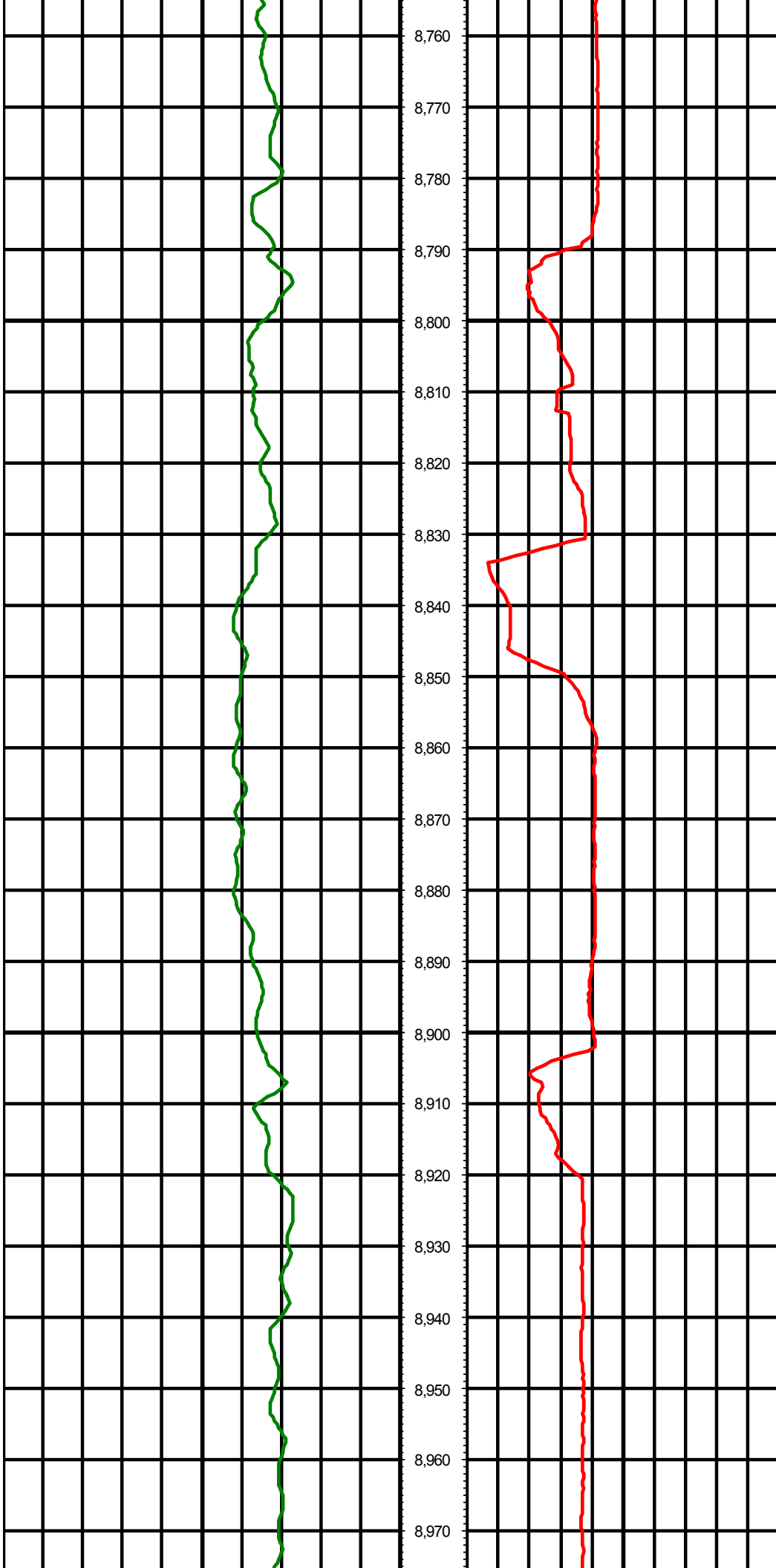








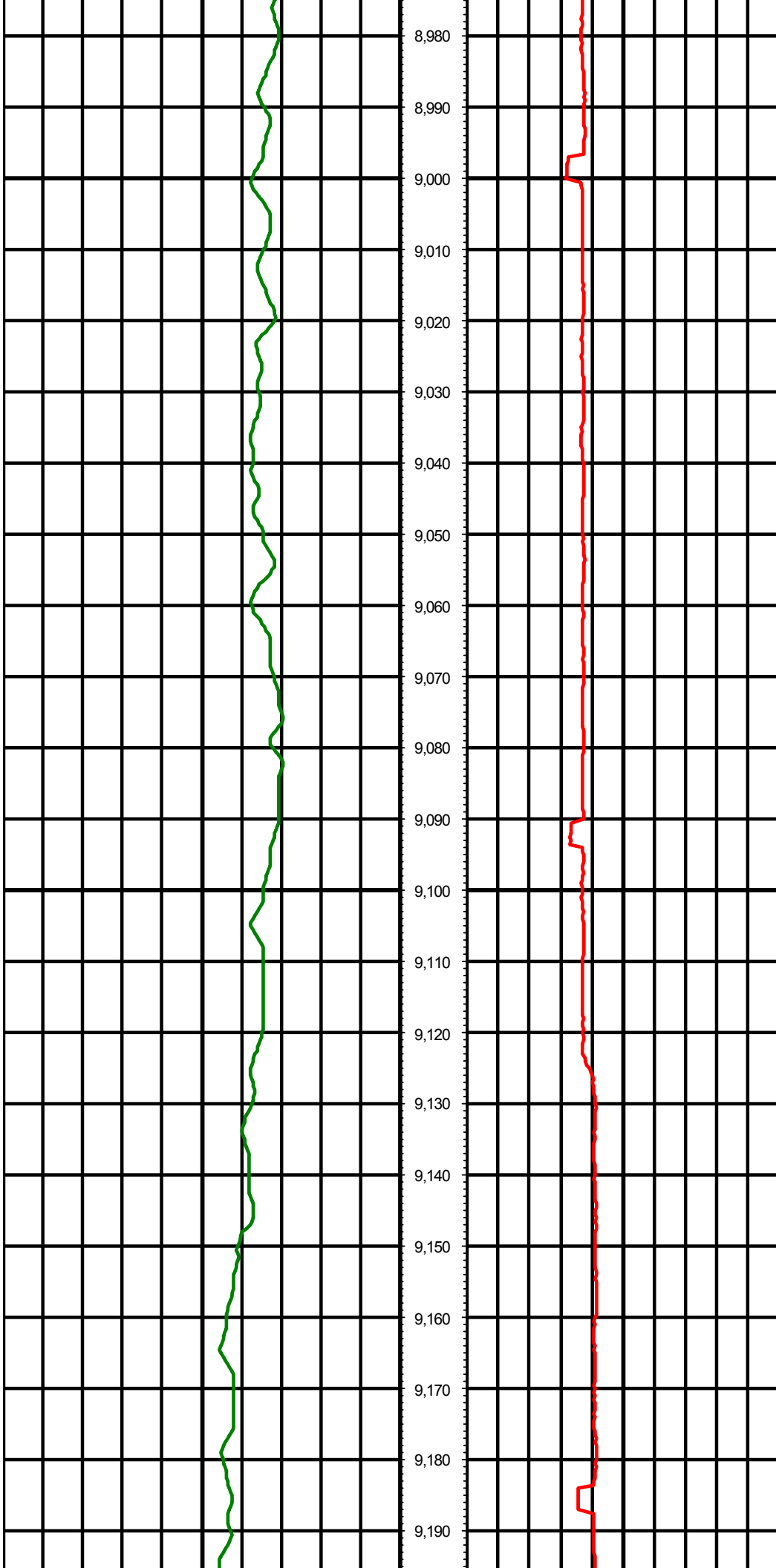




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MD: 8849.00 INC: 91.60 AZ: 358.60

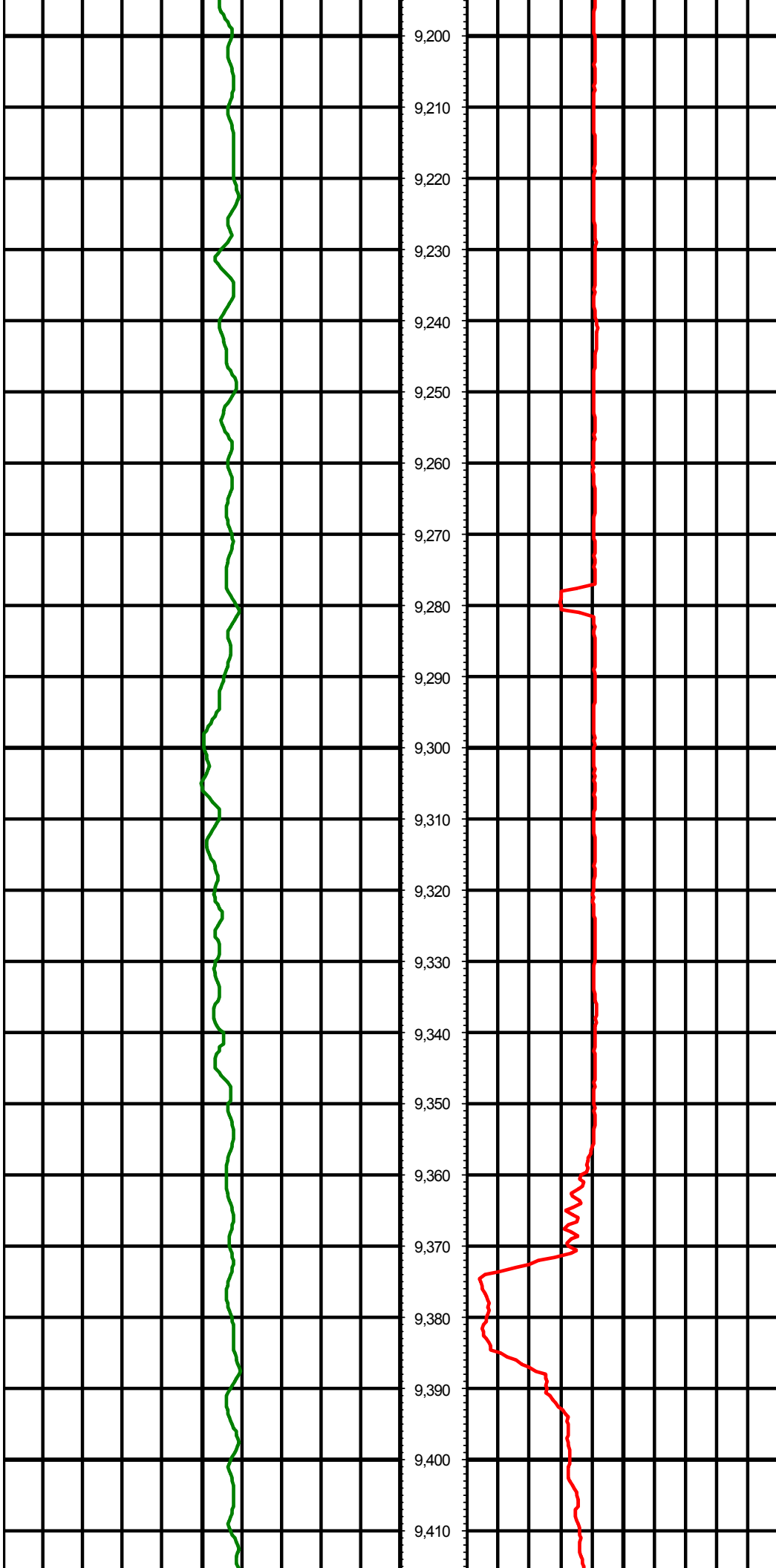
MD: 8942.00 INC: 91.70 AZ: 358.50



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MD: 9035.00 INC: 91.60 AZ: 358.10

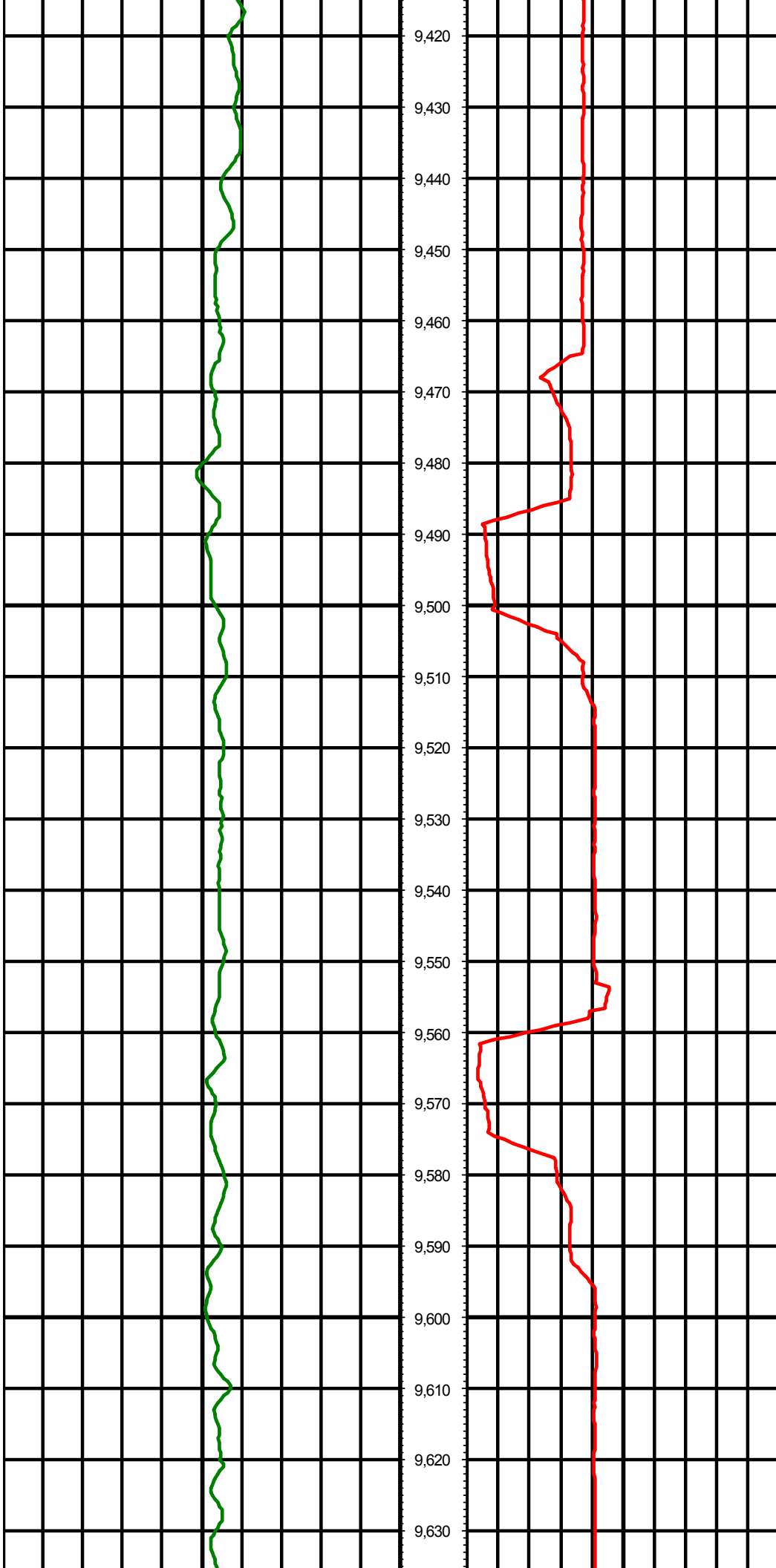
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MD: 9222.00 INC: 92.10 AZ: 358.30

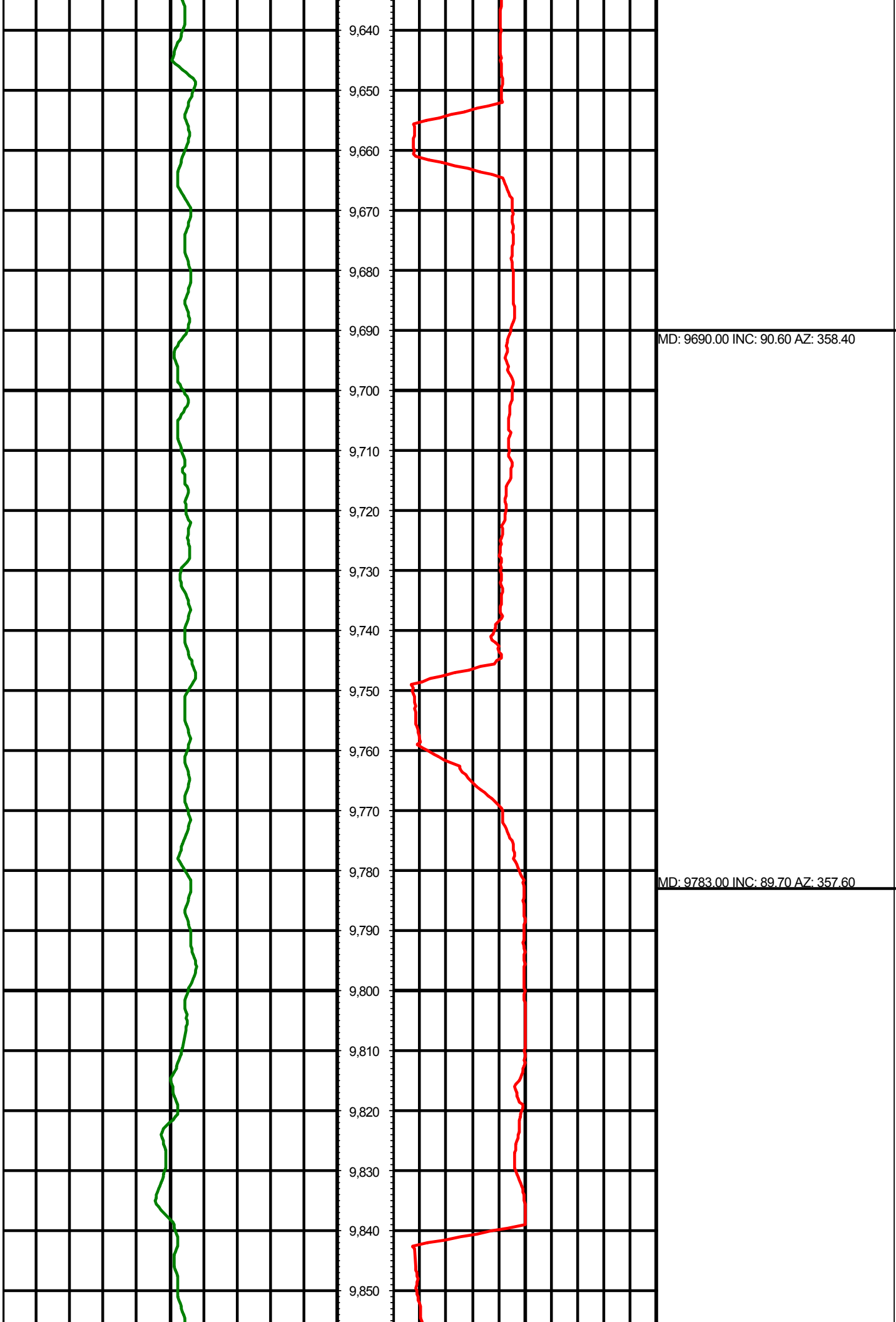
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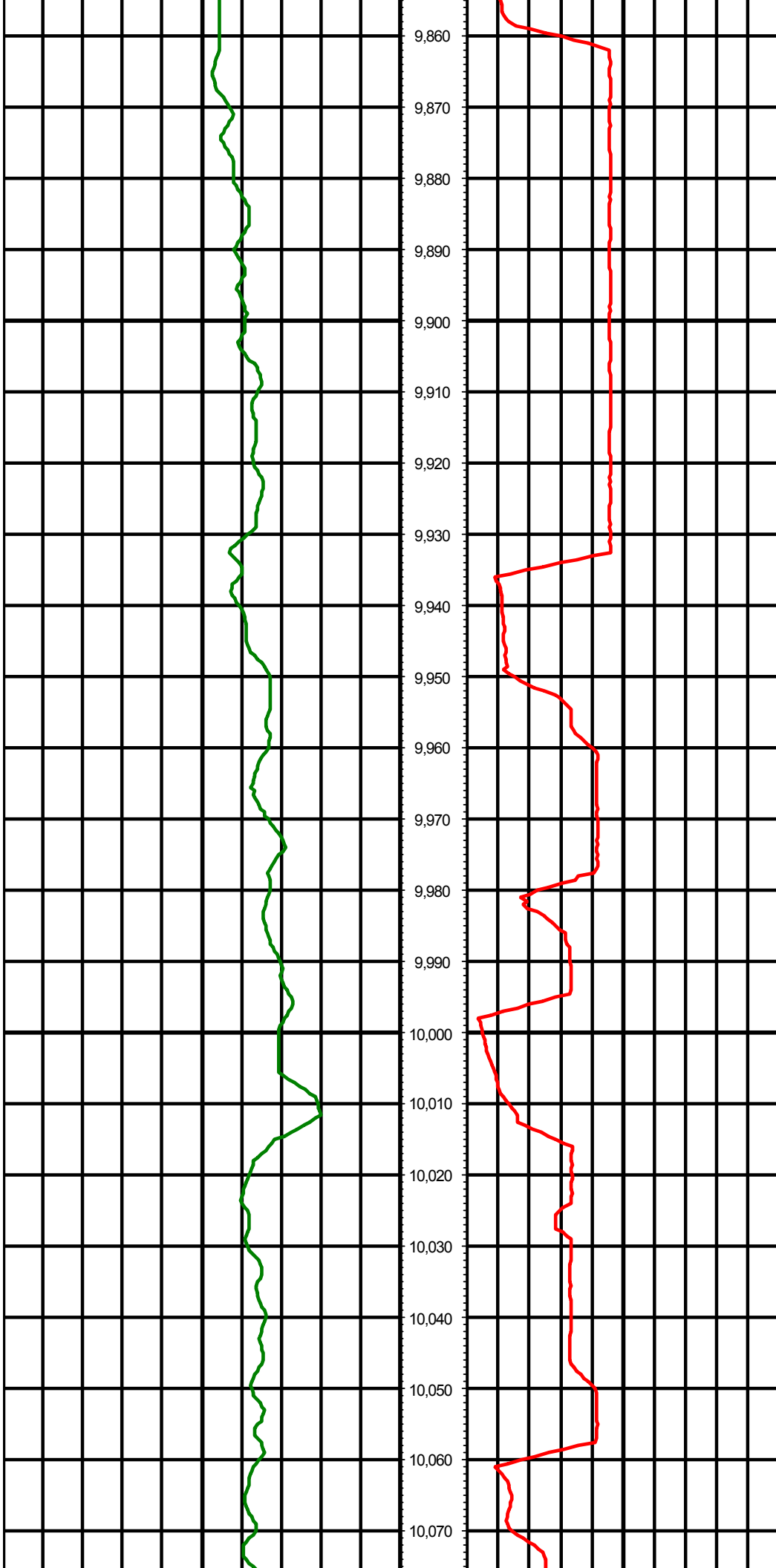
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MD: 9503.00 INC: 89.50 AZ: 357.10

MD: 9596.00 INC: 90.20 AZ: 358.60

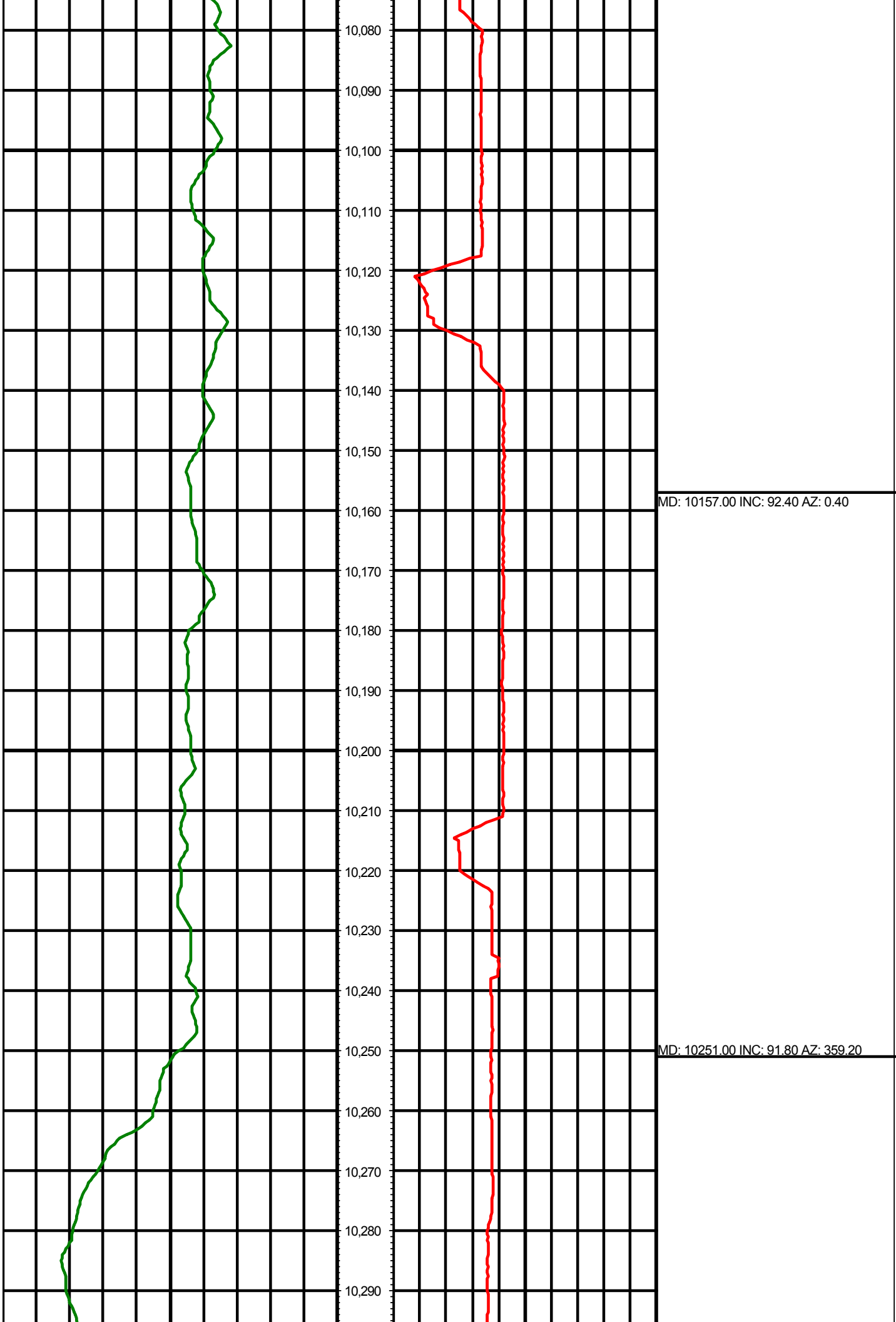


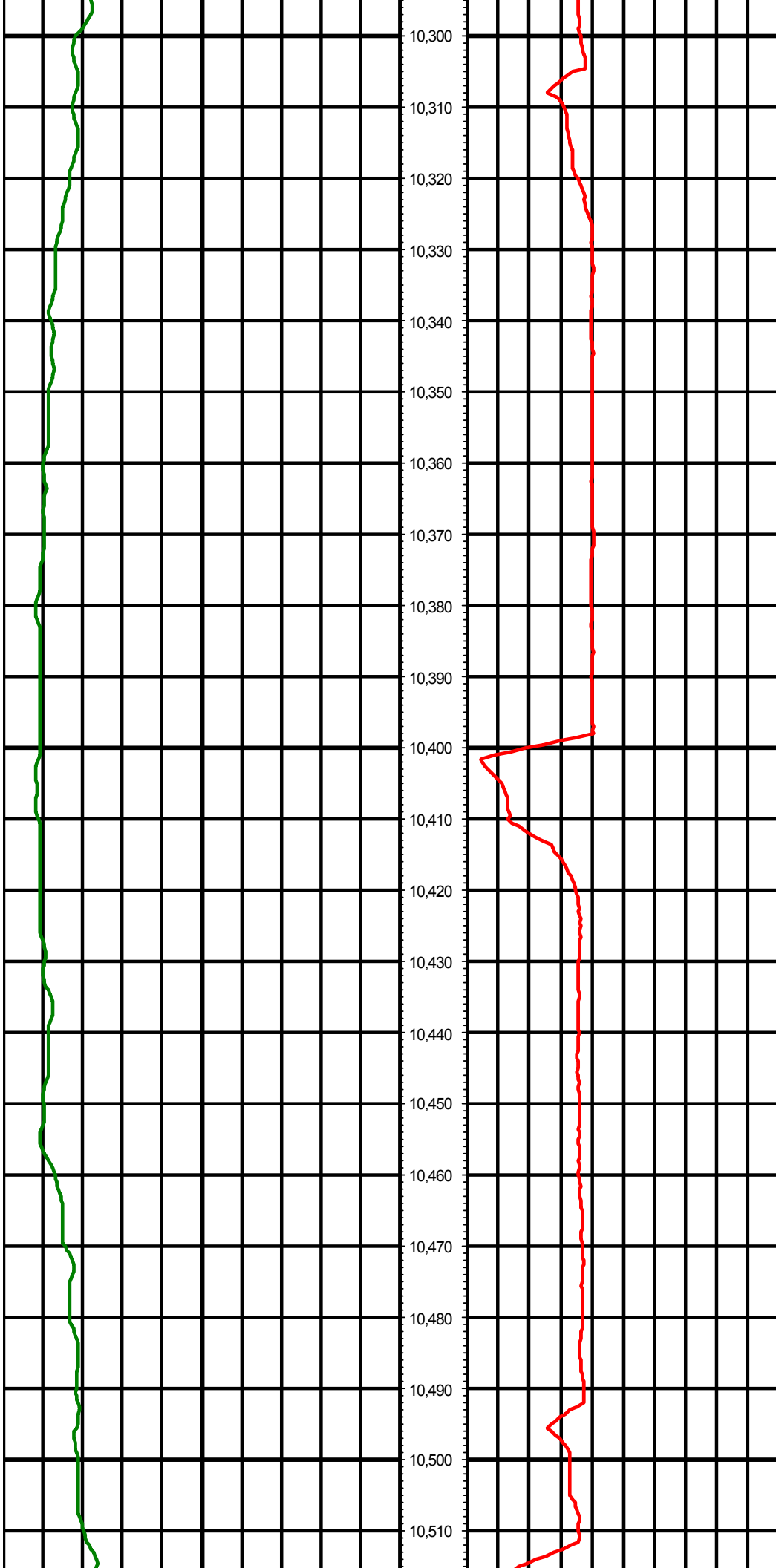


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MD: 9970.00 INC: 90.90 AZ: 358.40

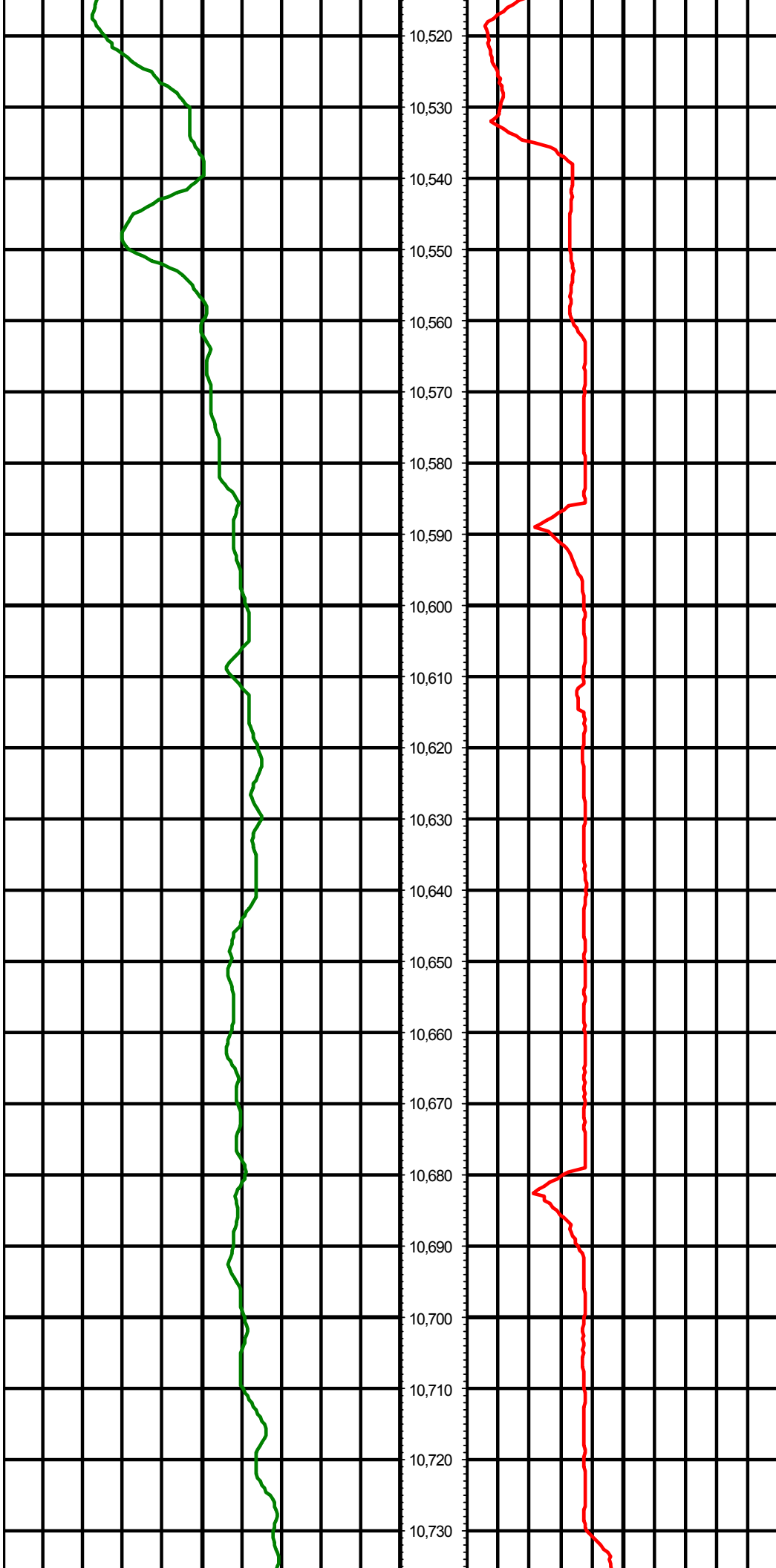
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MD: 10344.00 INC: 92.40 AZ: 1.00

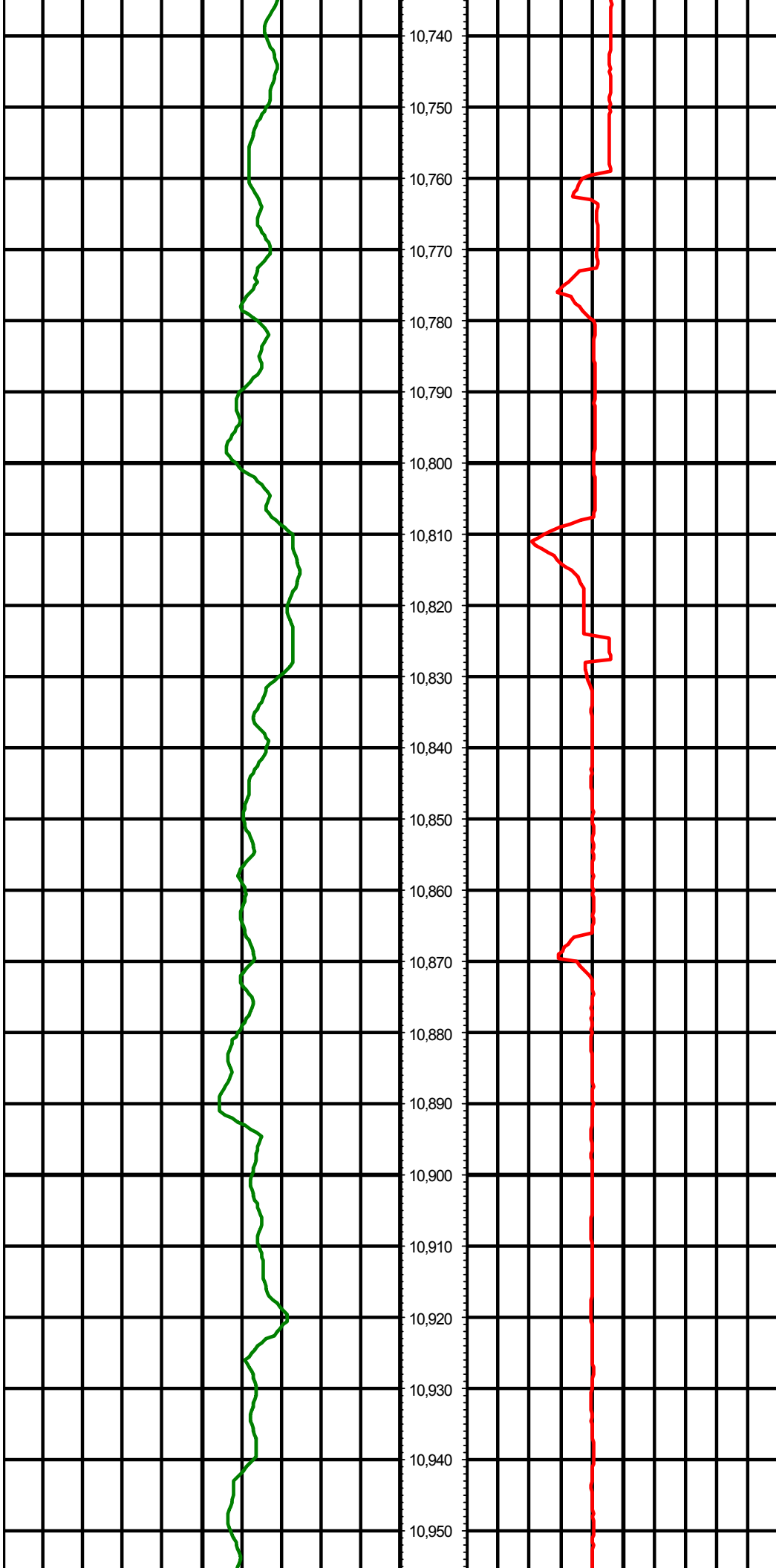
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MD: 10625.00 INC: 89.60 AZ: 0.20

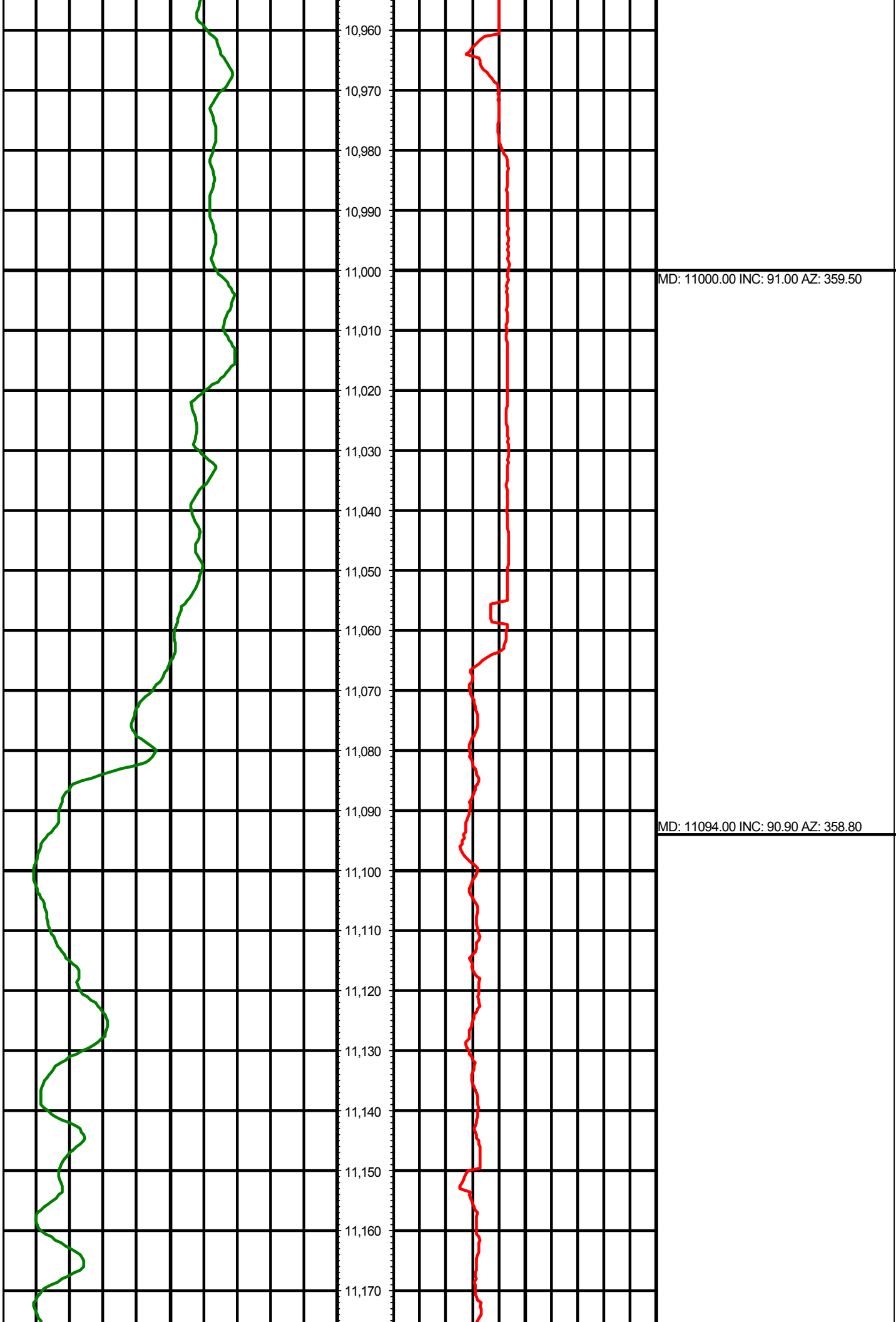
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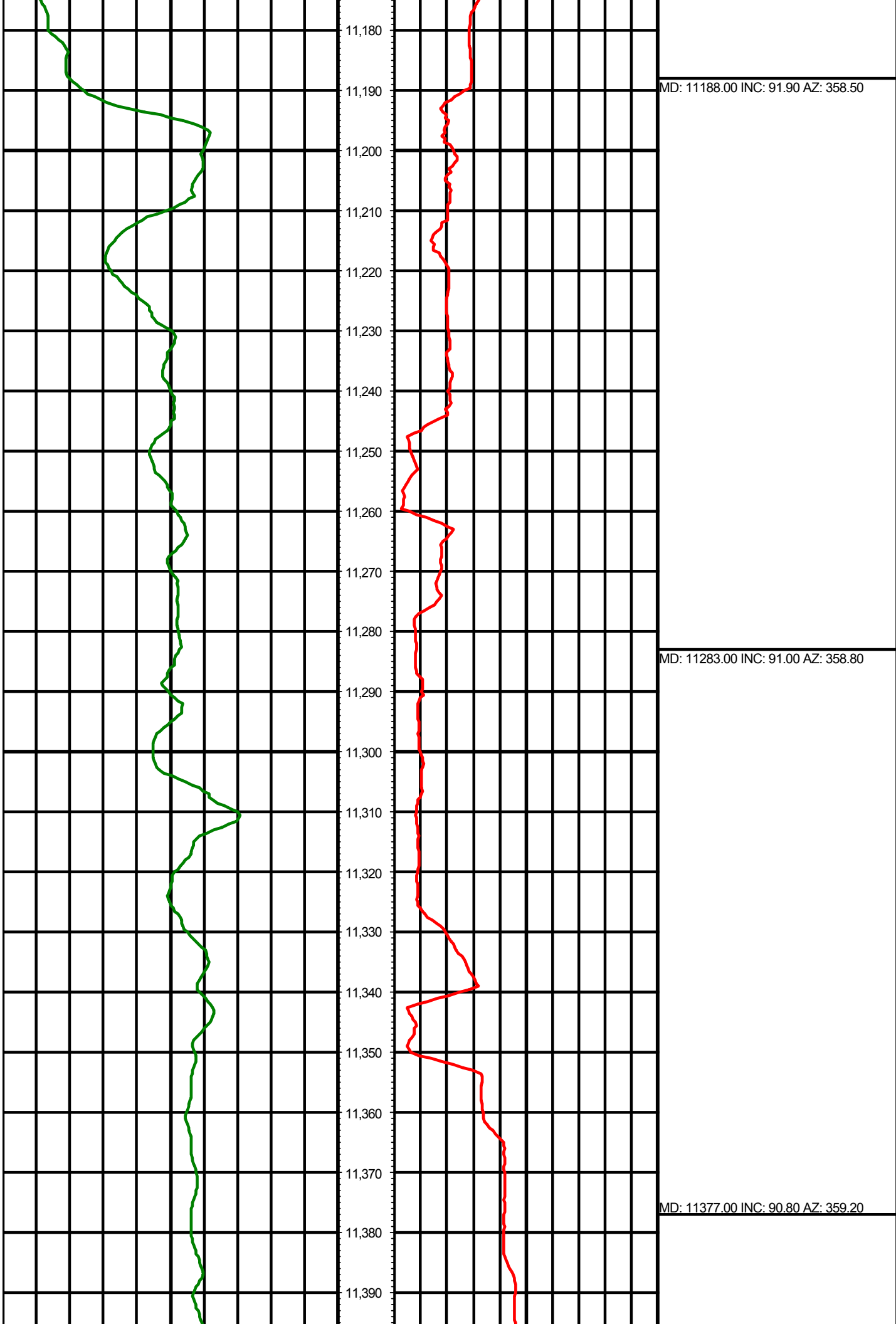


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MD: 10906.00 INC: 90.90 AZ: 360.00

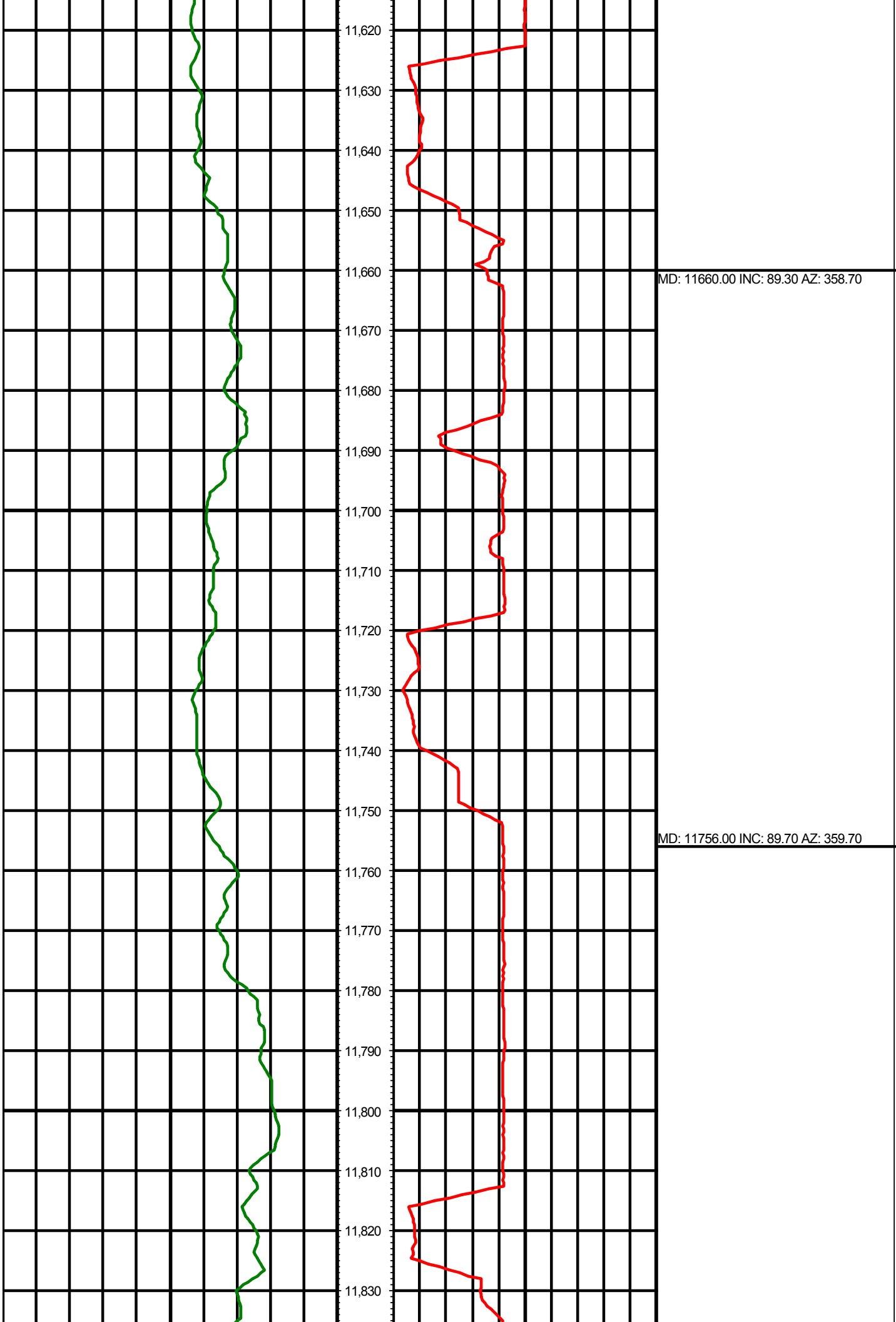


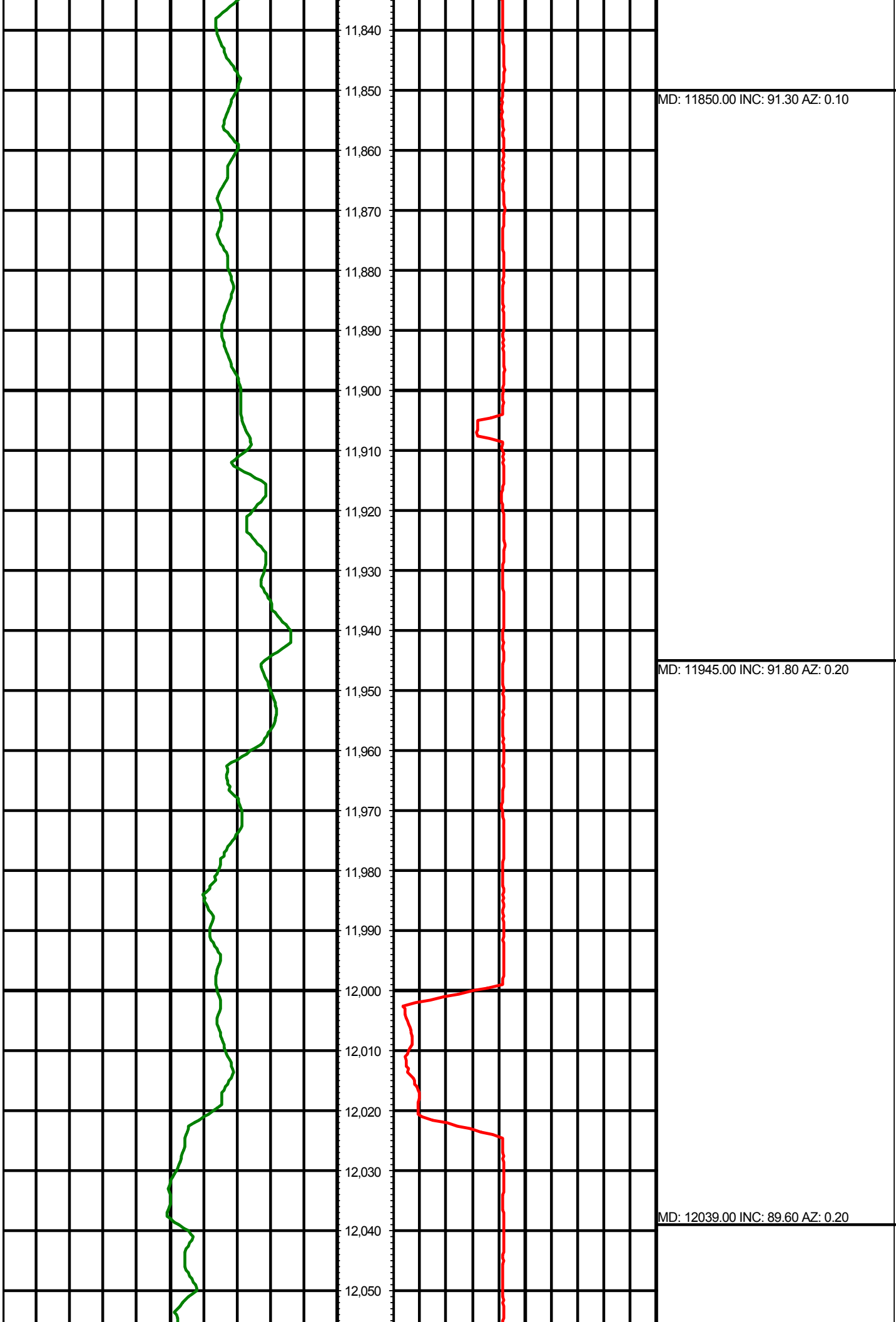


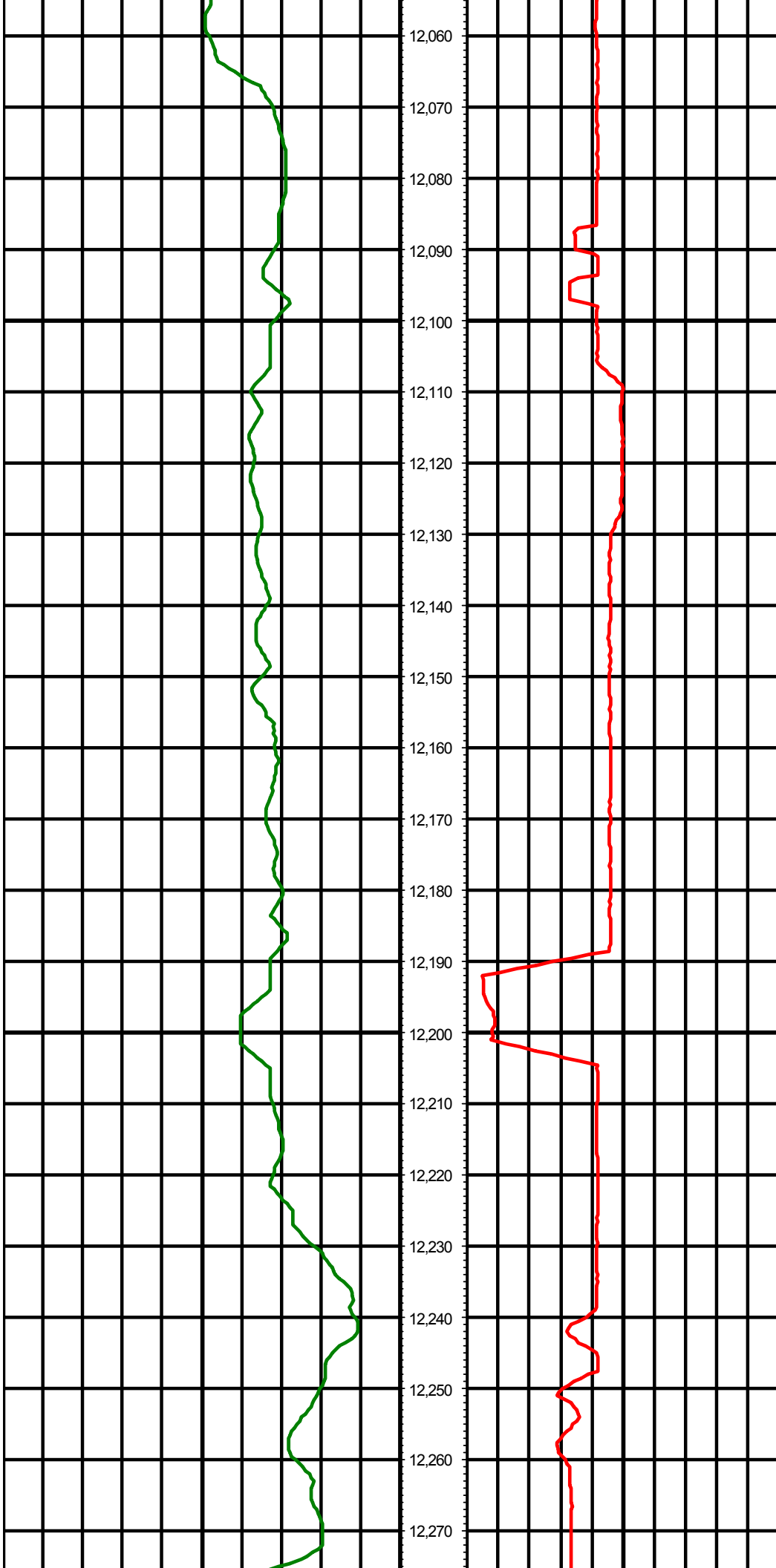


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MD: 11566.00 INC: 89.50 AZ: 357.40

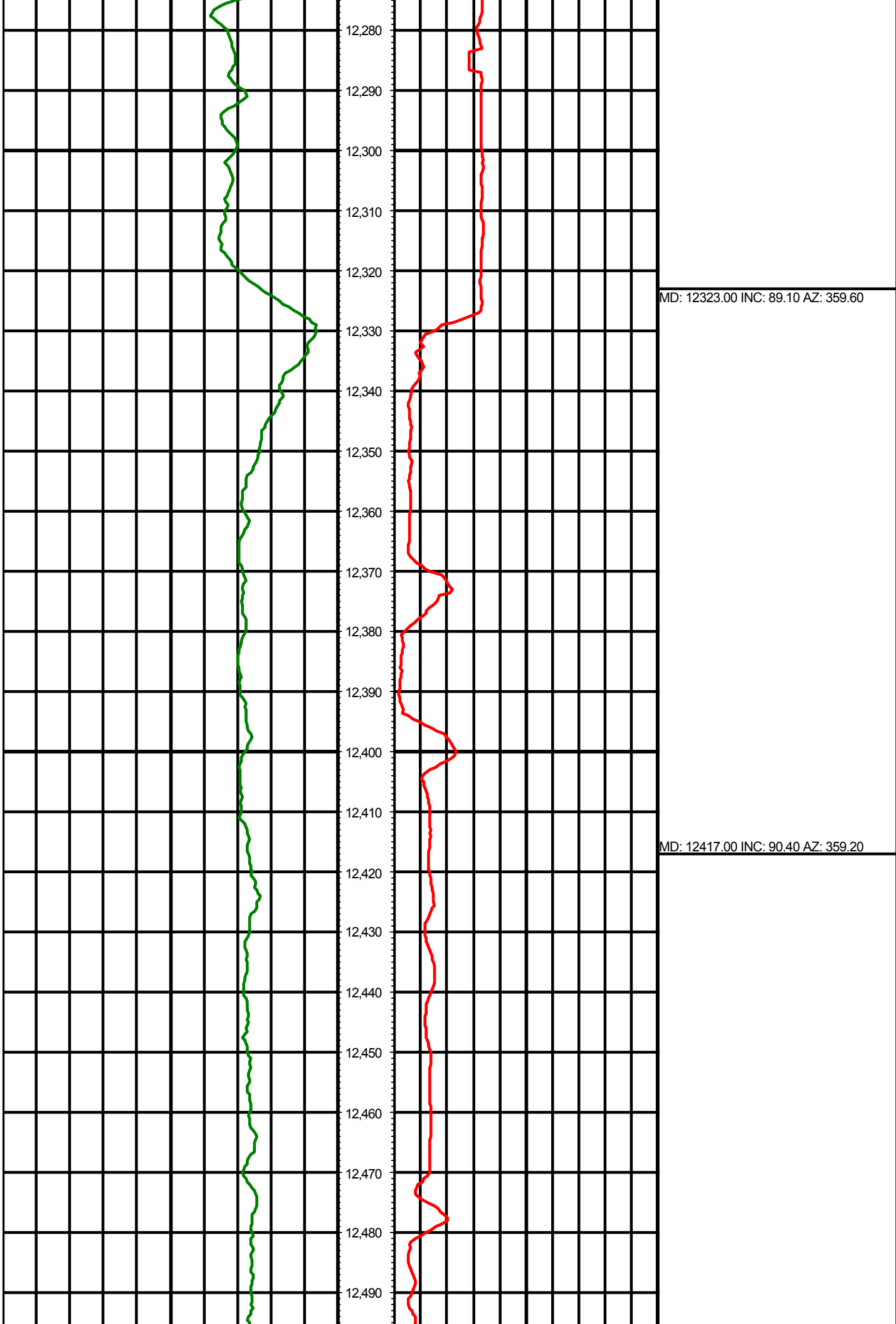






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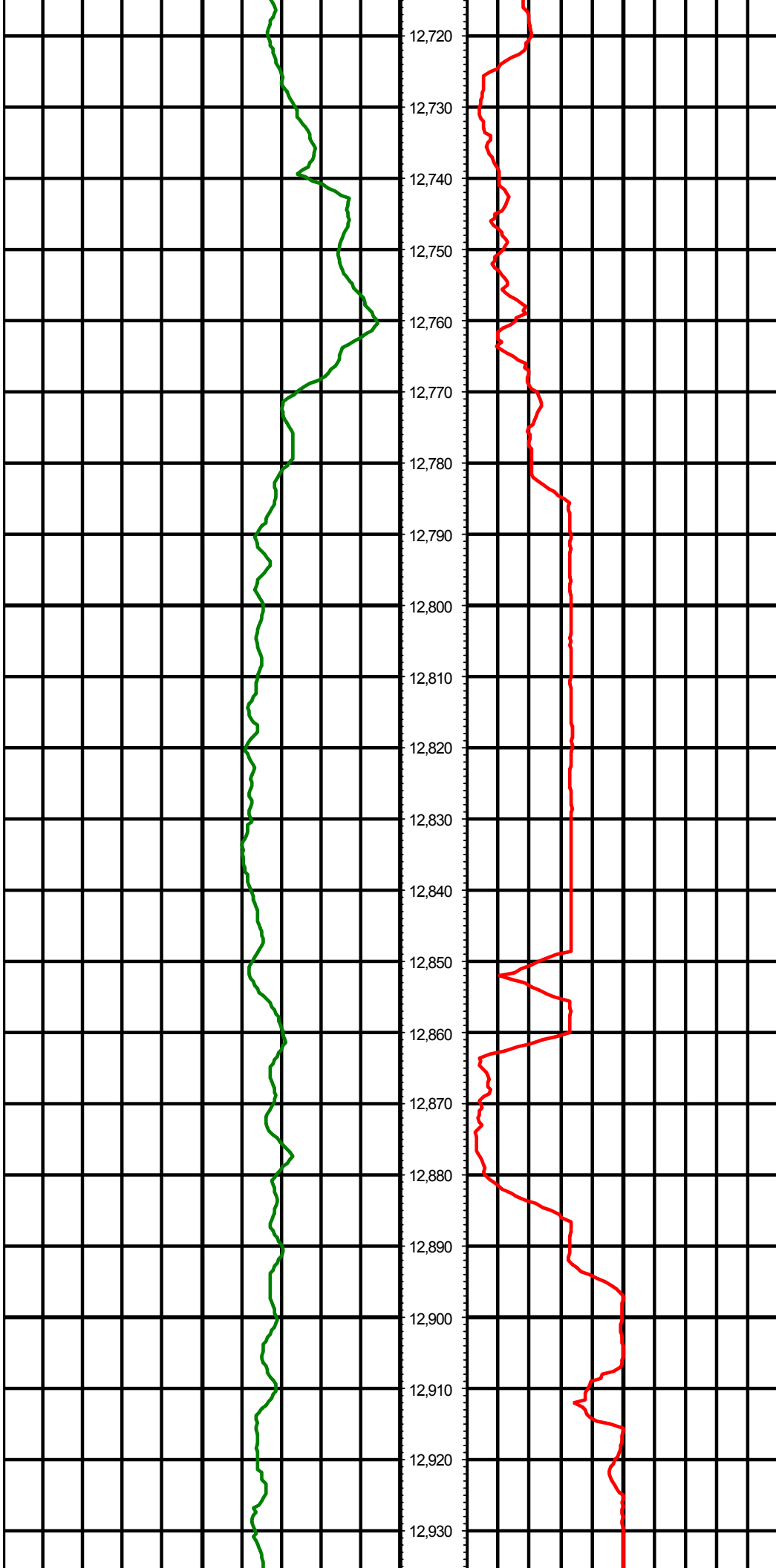




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MD: 12701.00 INC: 91.70 AZ: 358.80



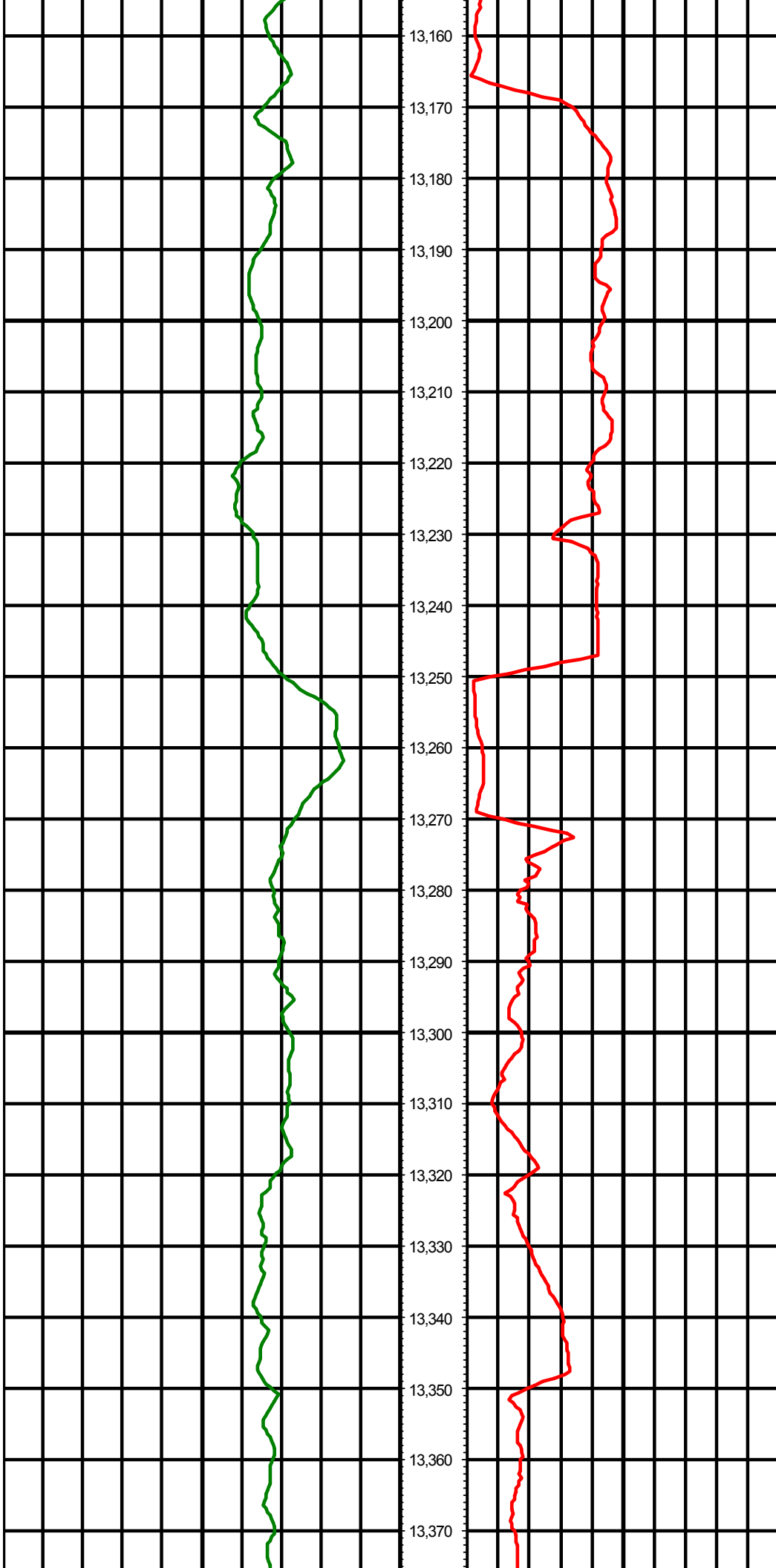
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MD: 12889.00 INC: 91.00 AZ: 0.10



MD: 12984.00 INC: 90.80 AZ: 0.20

MD: 13078.00 INC: 90.50 AZ: 0.40

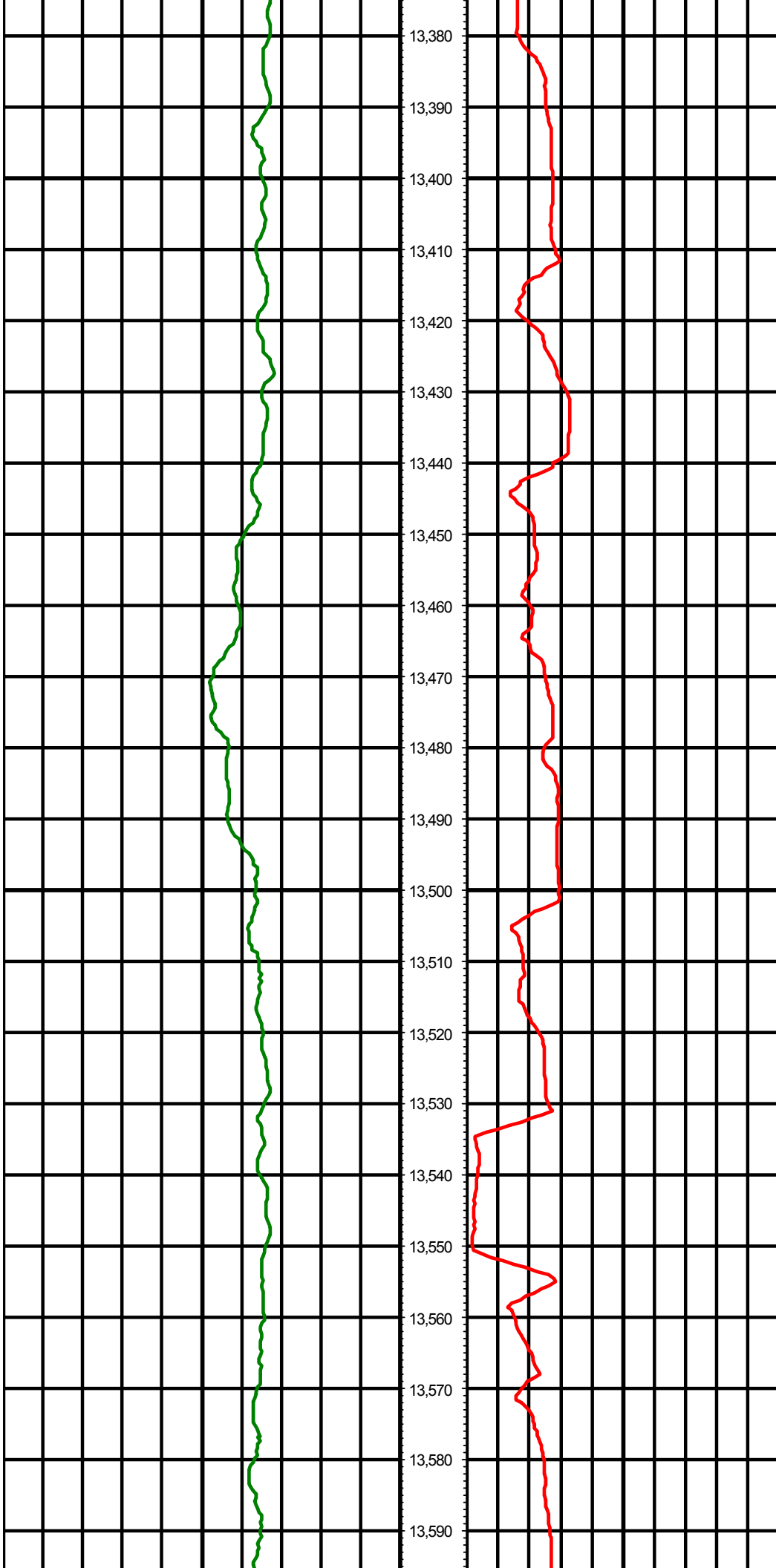


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MD: 13173.00 INC: 88.70 AZ: 359.90

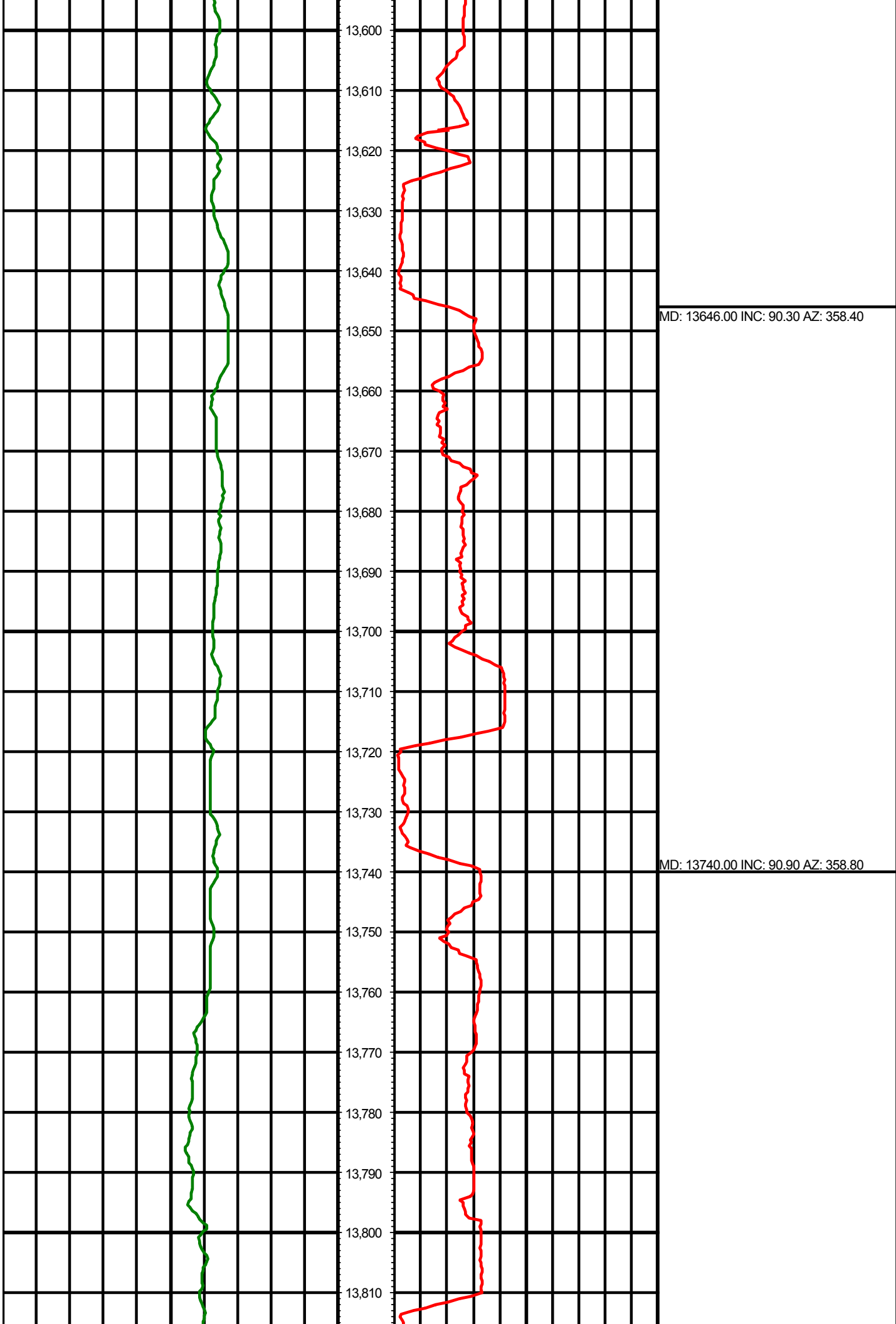
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MD: 13362.00 INC: 88.40 AZ: 357.50



MD: 13457.00 INC: 88.70 AZ: 357.20

MD: 13551.00 INC: 89.30 AZ: 357.30

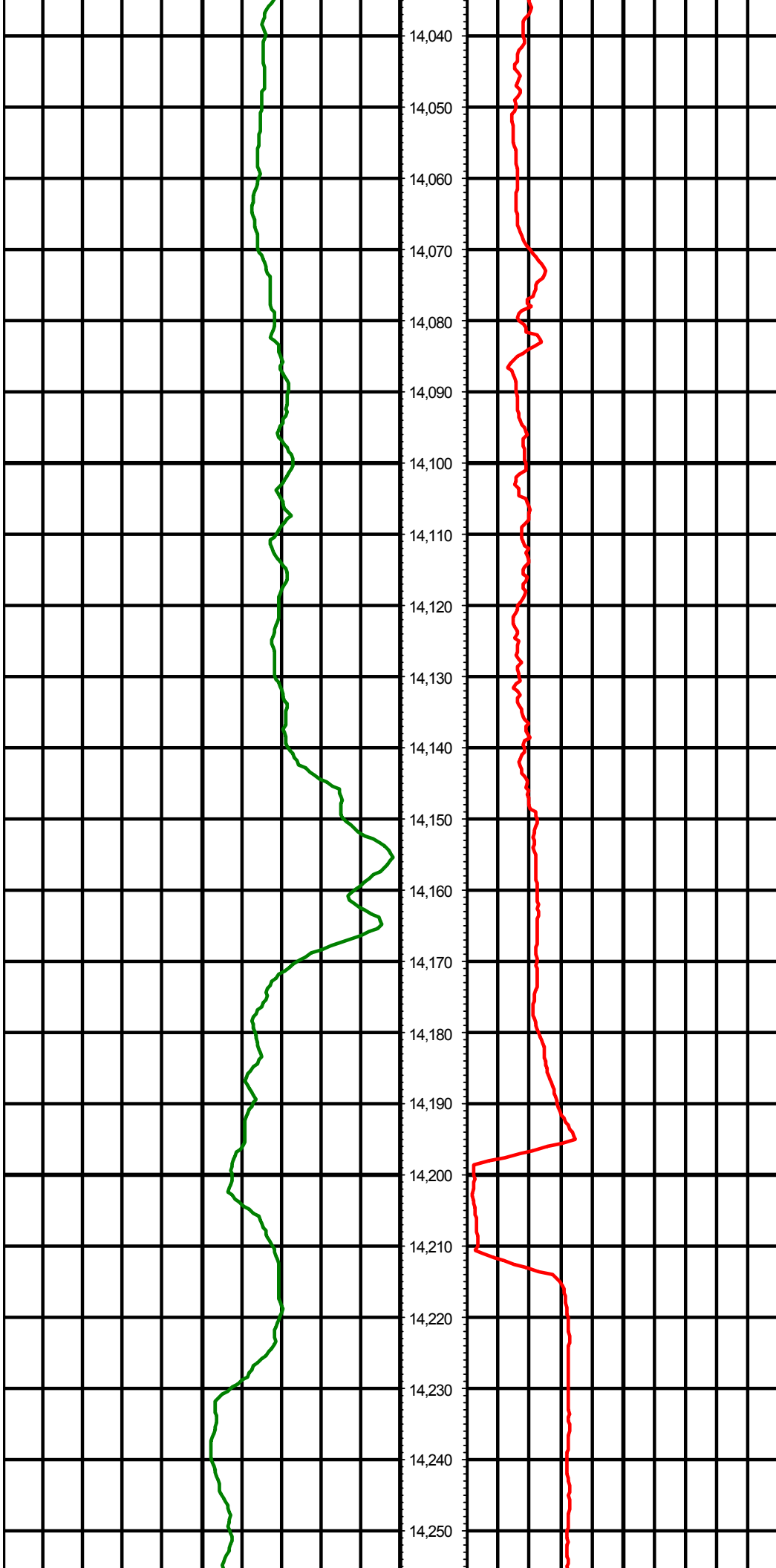




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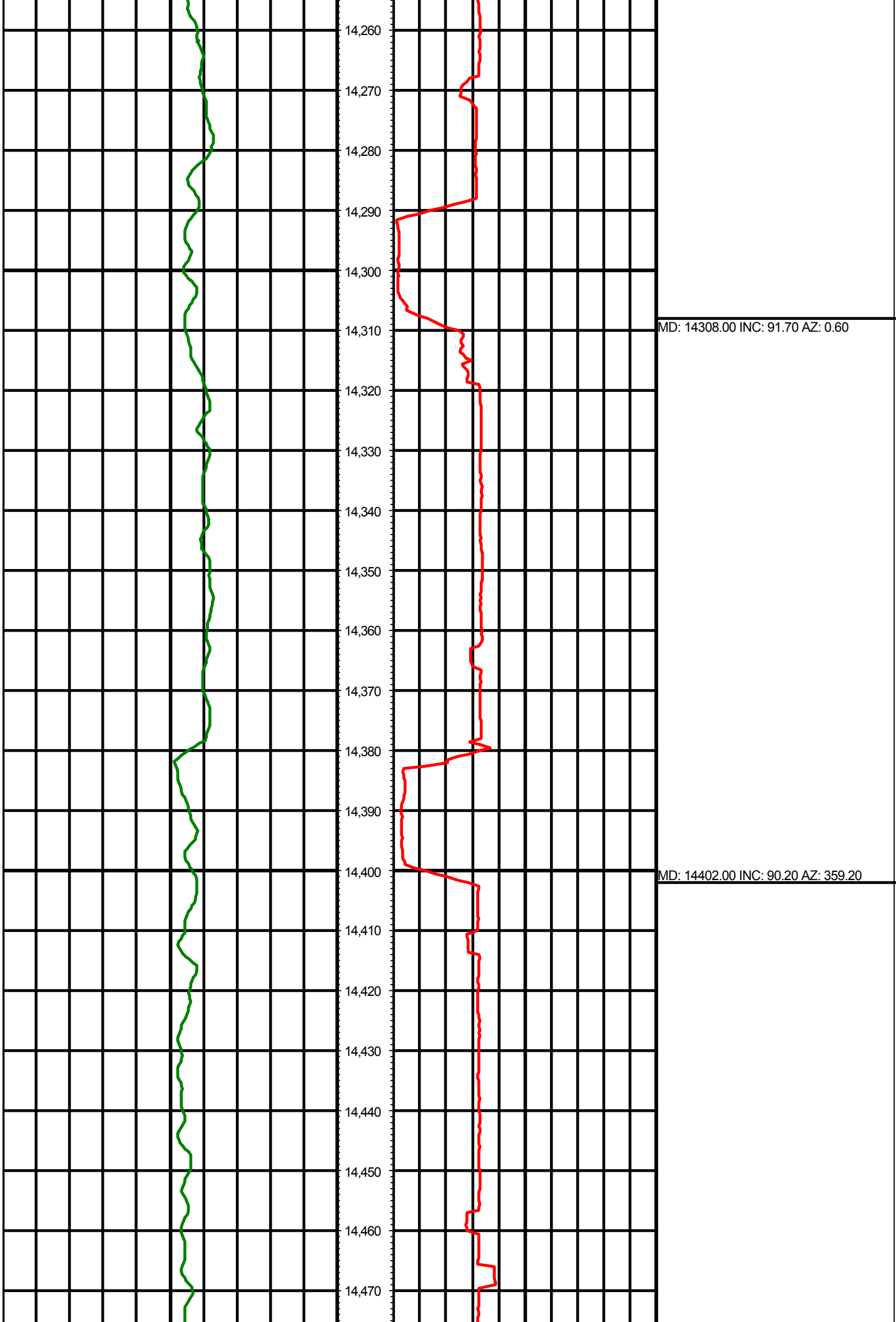
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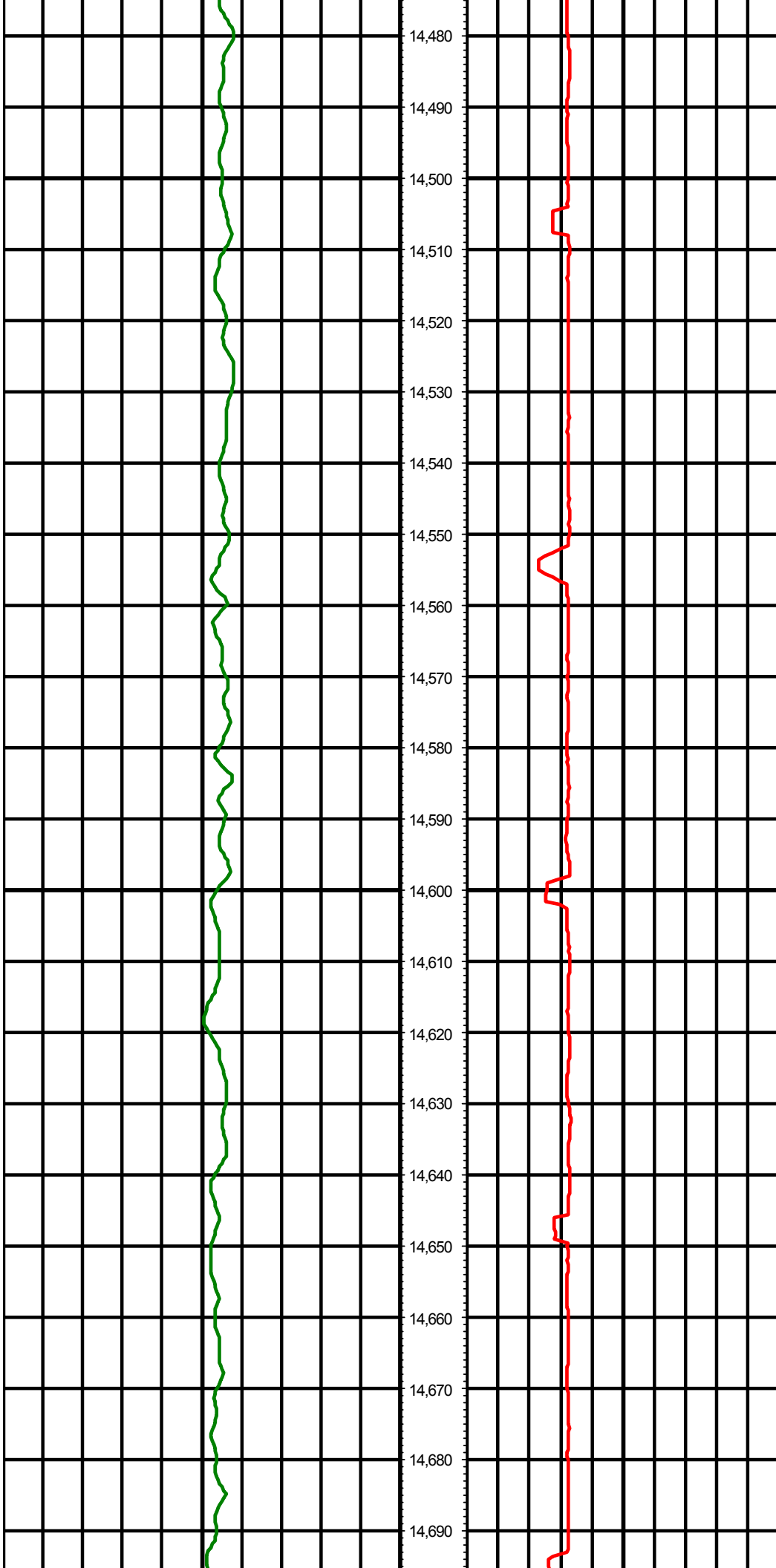
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MD: 14118.00 INC: 93.20 AZ: 0.30

MD: 14213.00 INC: 92.80 AZ: 0.90

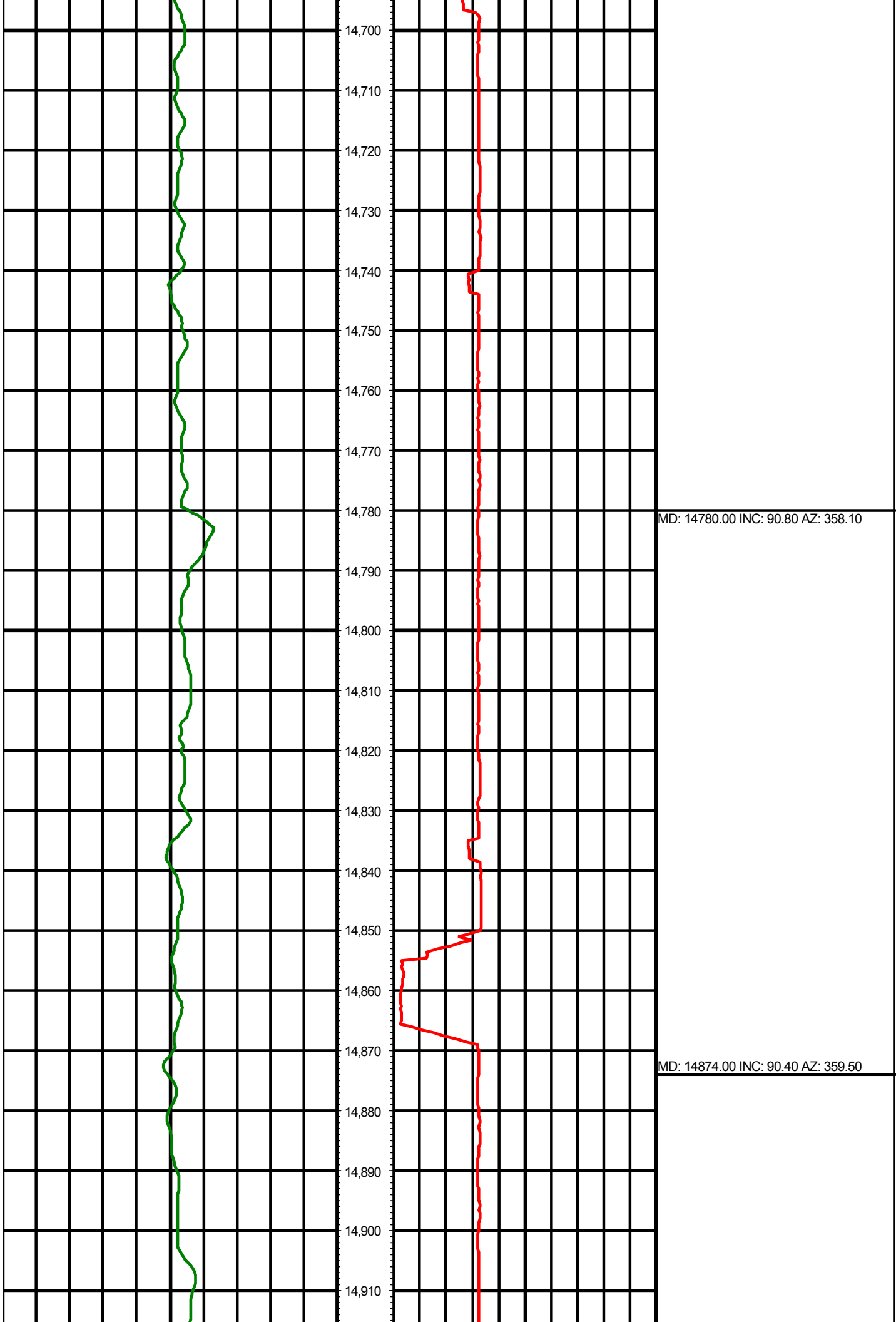




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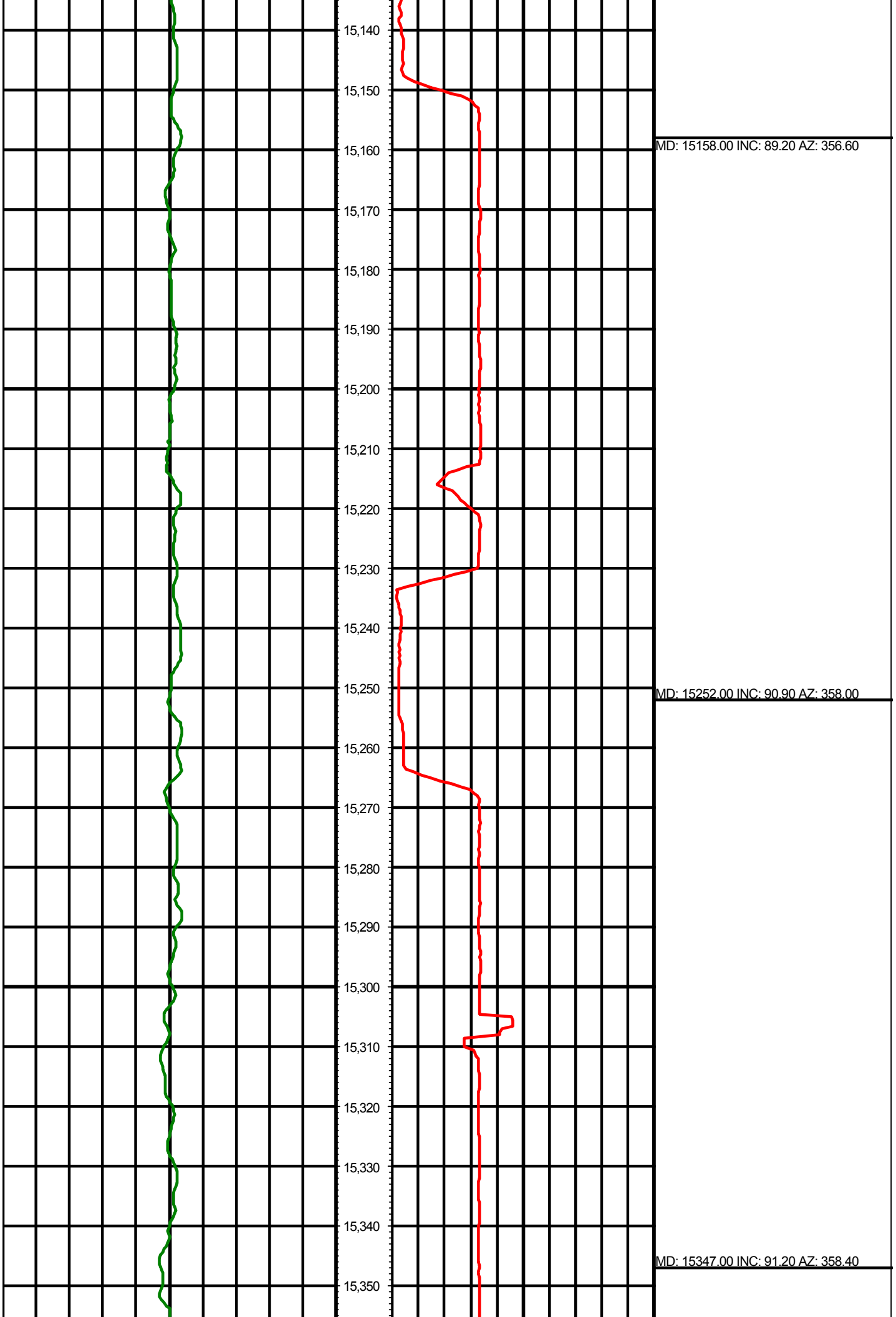
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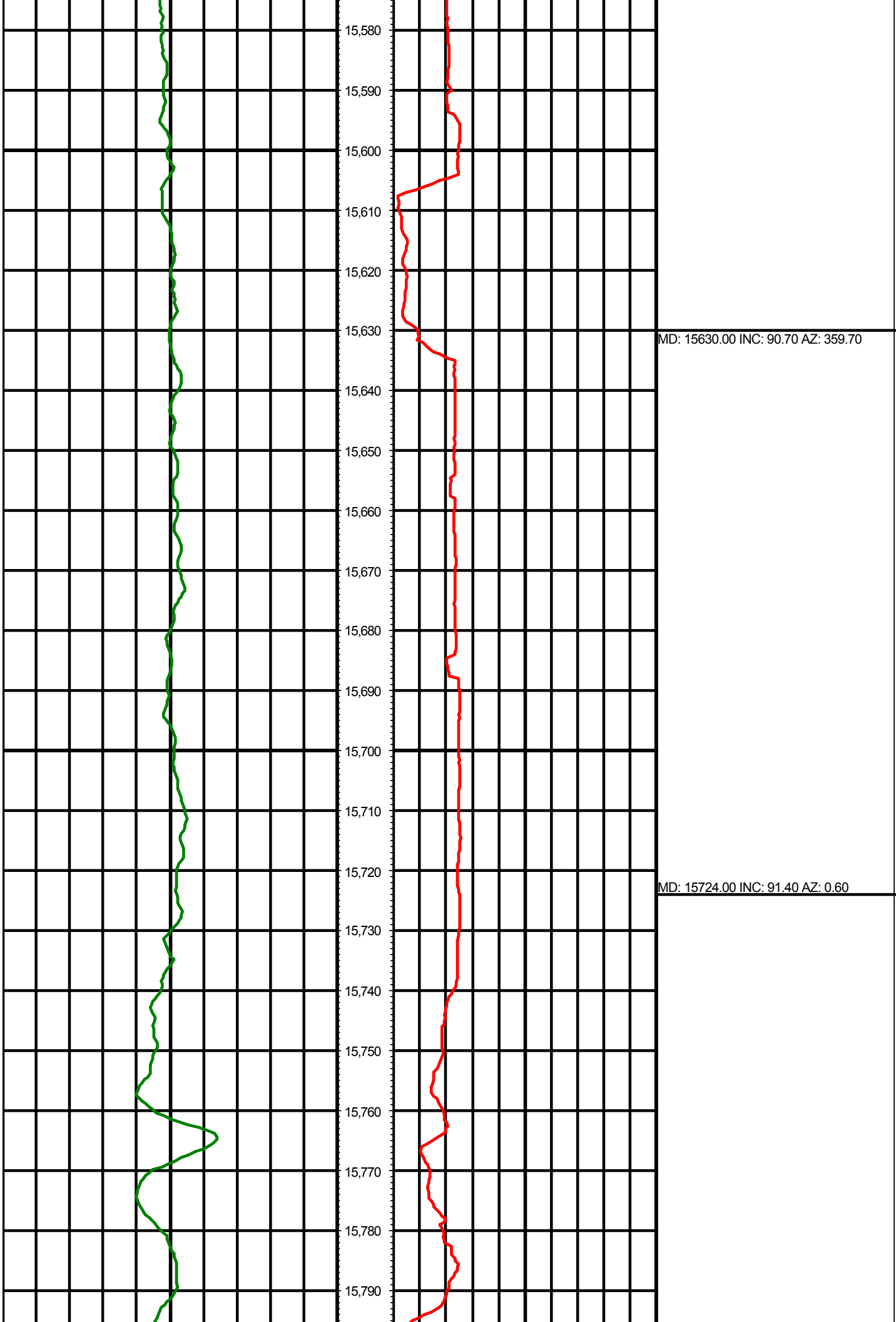
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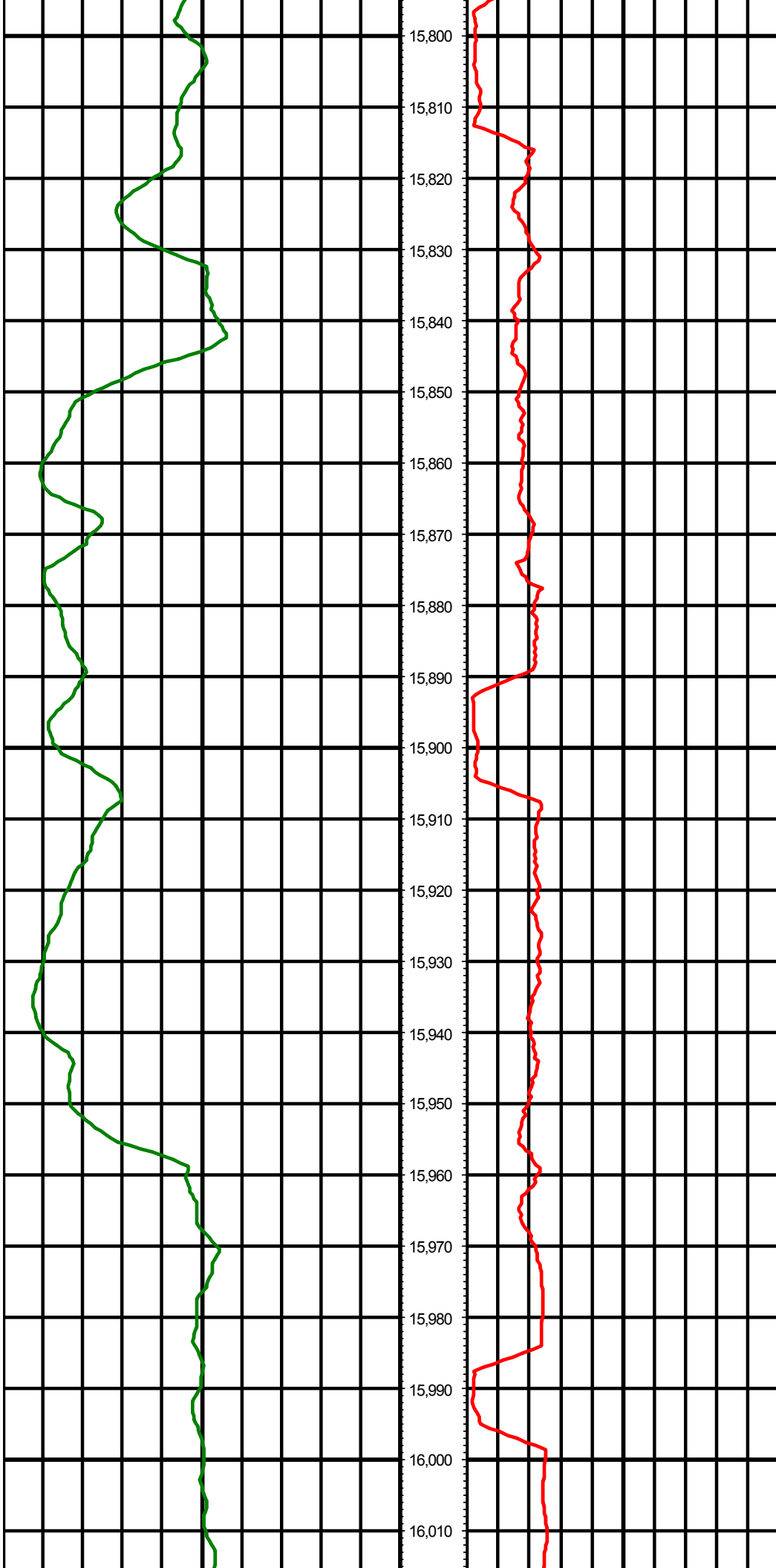




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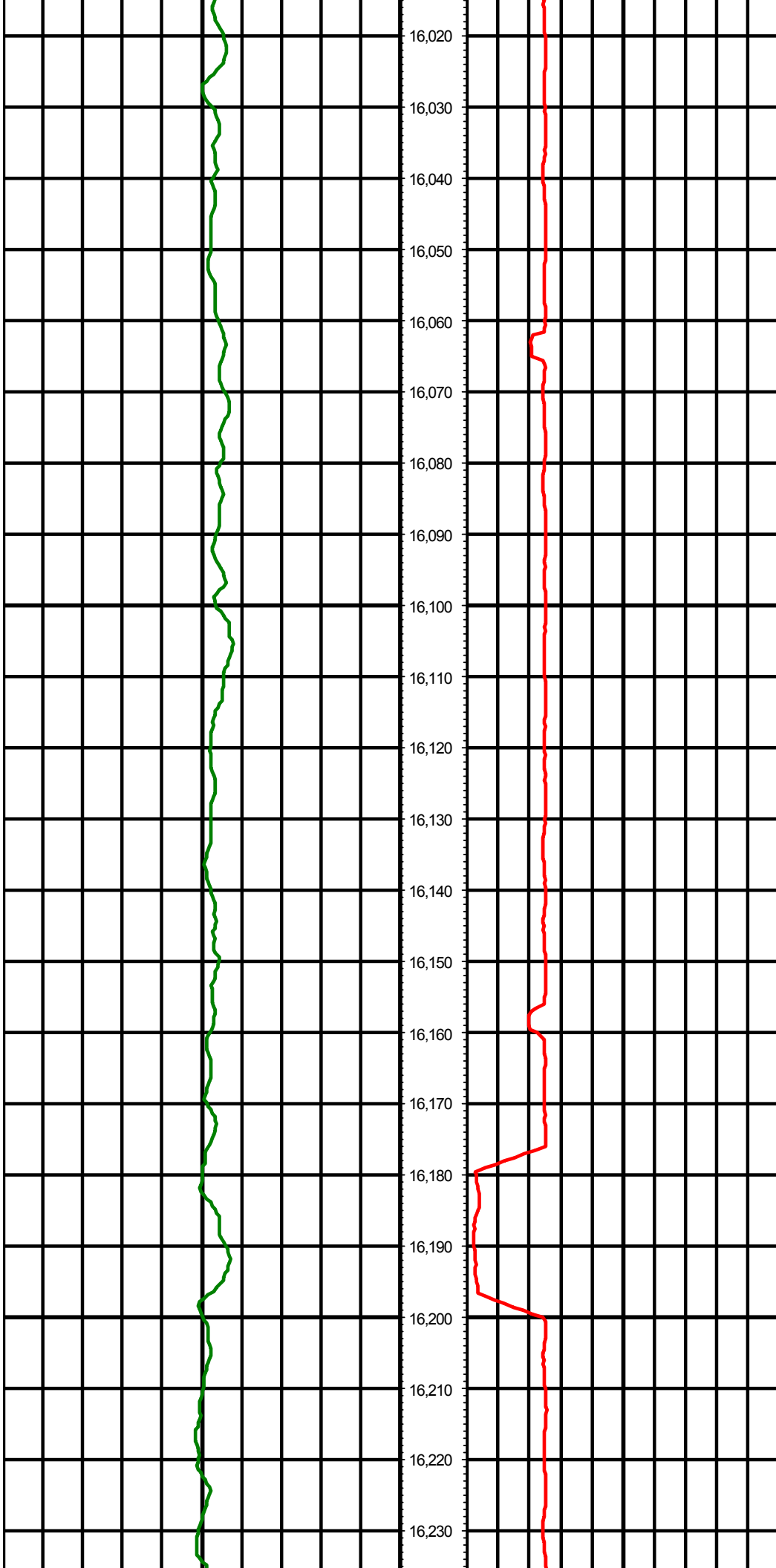


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MD: 15819.00 INC: 88.40 AZ: 1.20

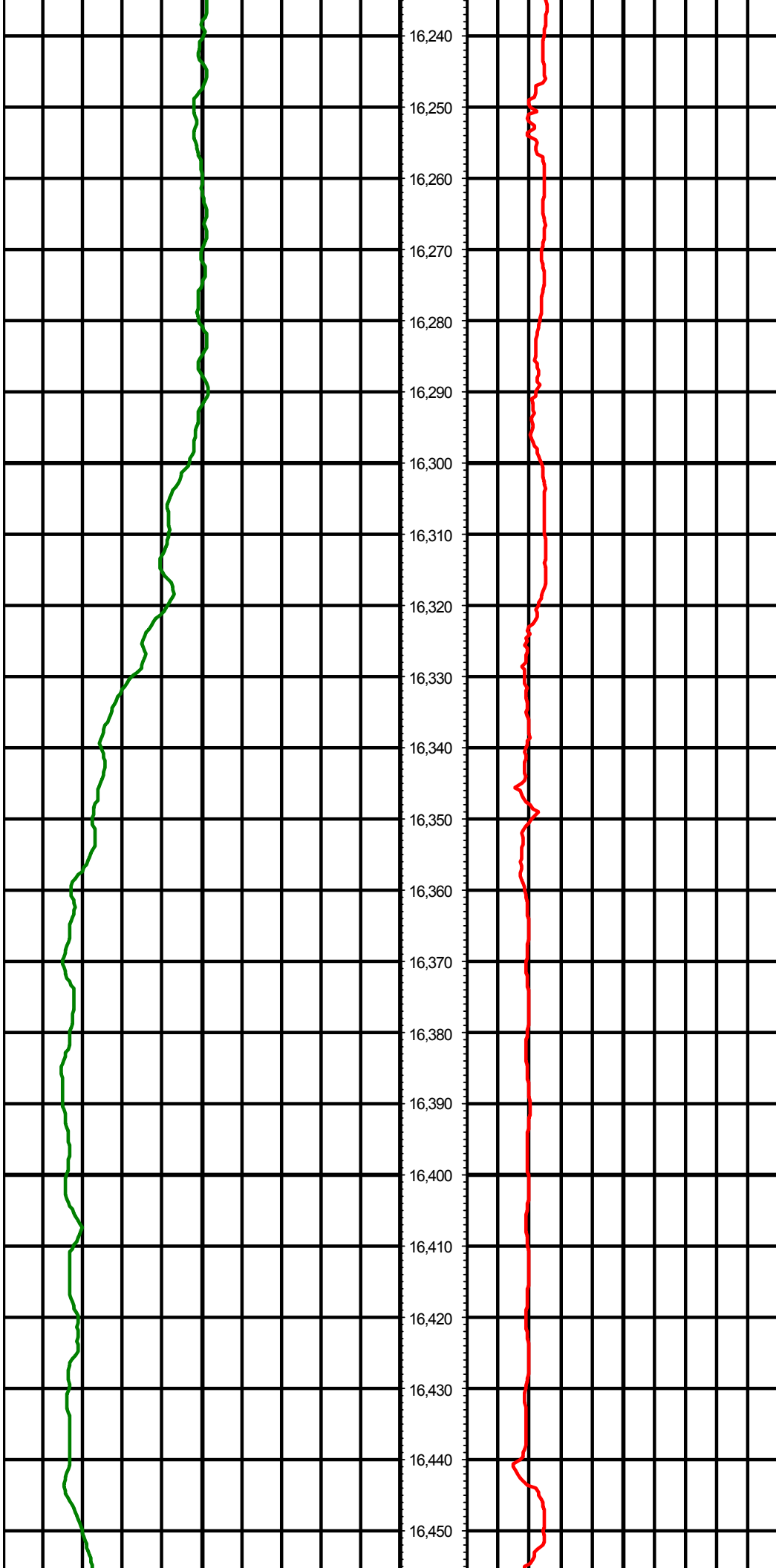
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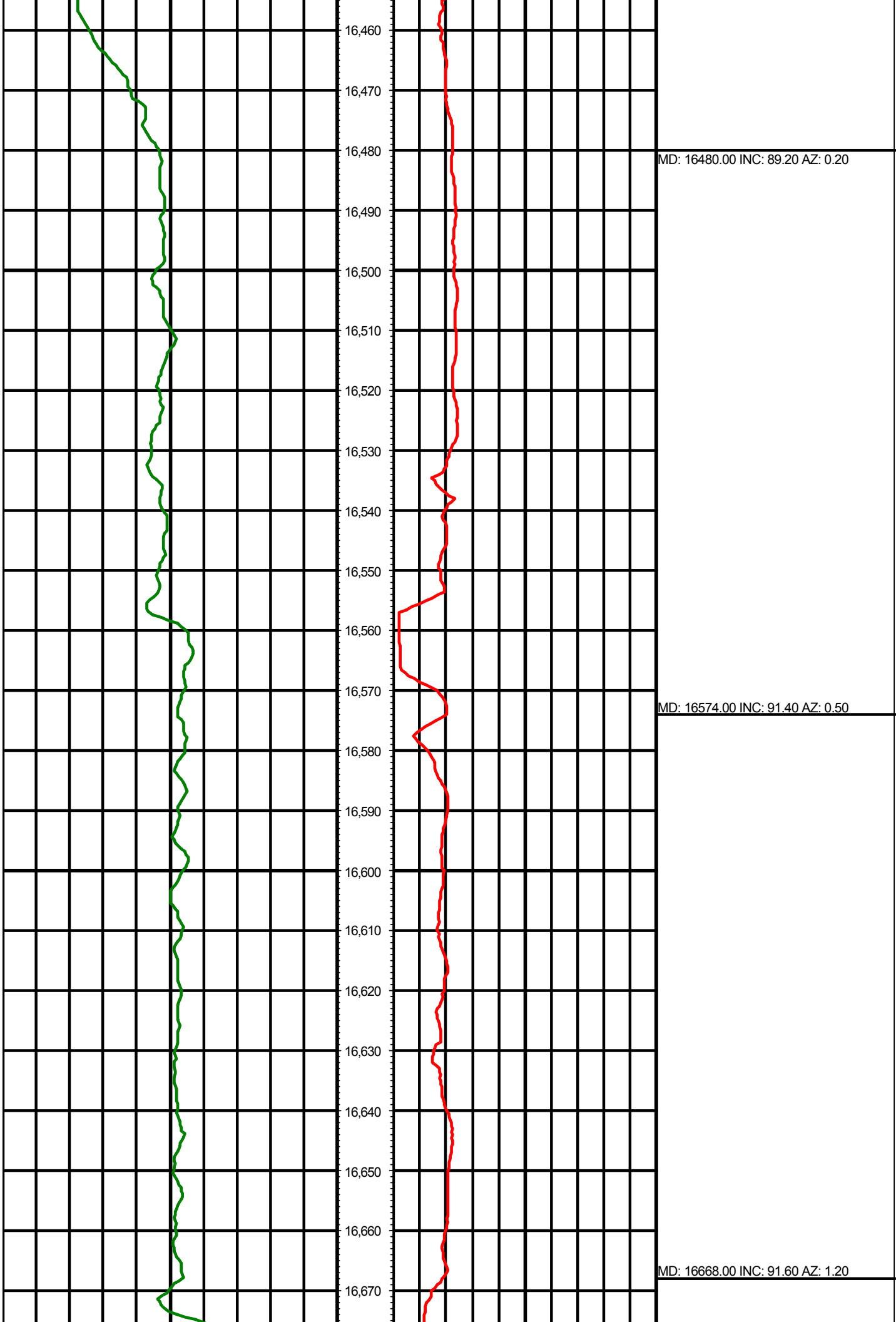
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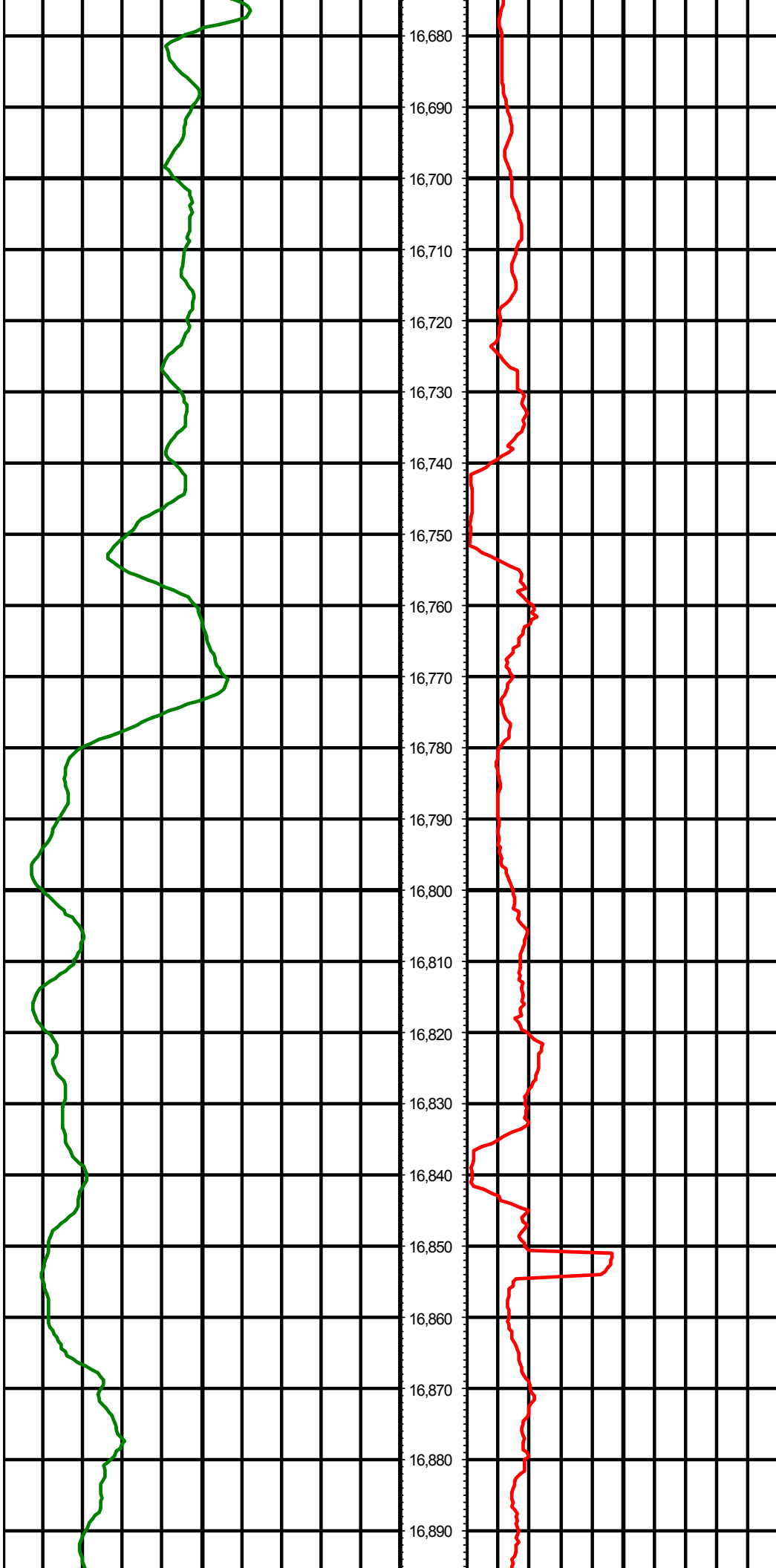
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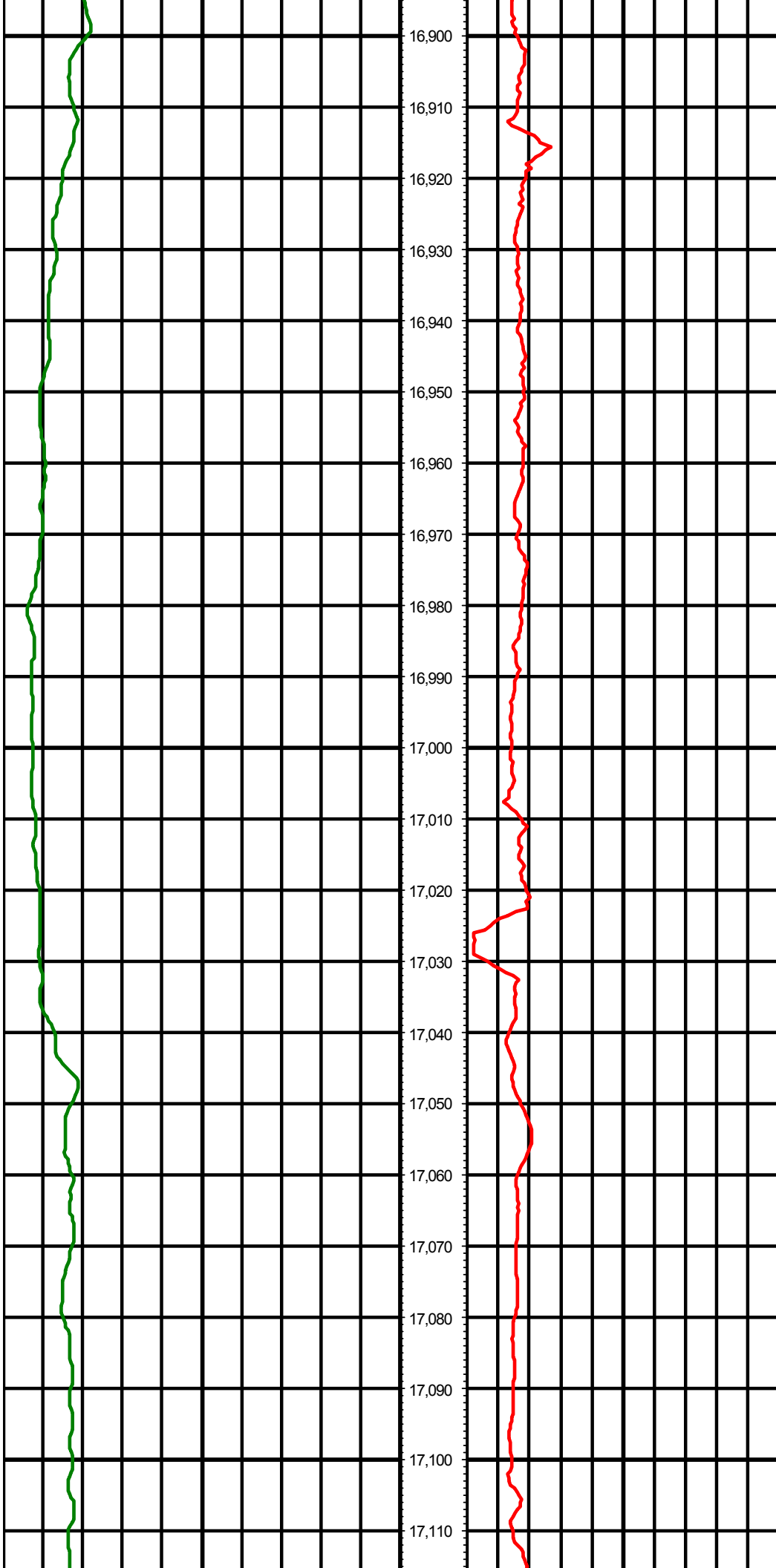
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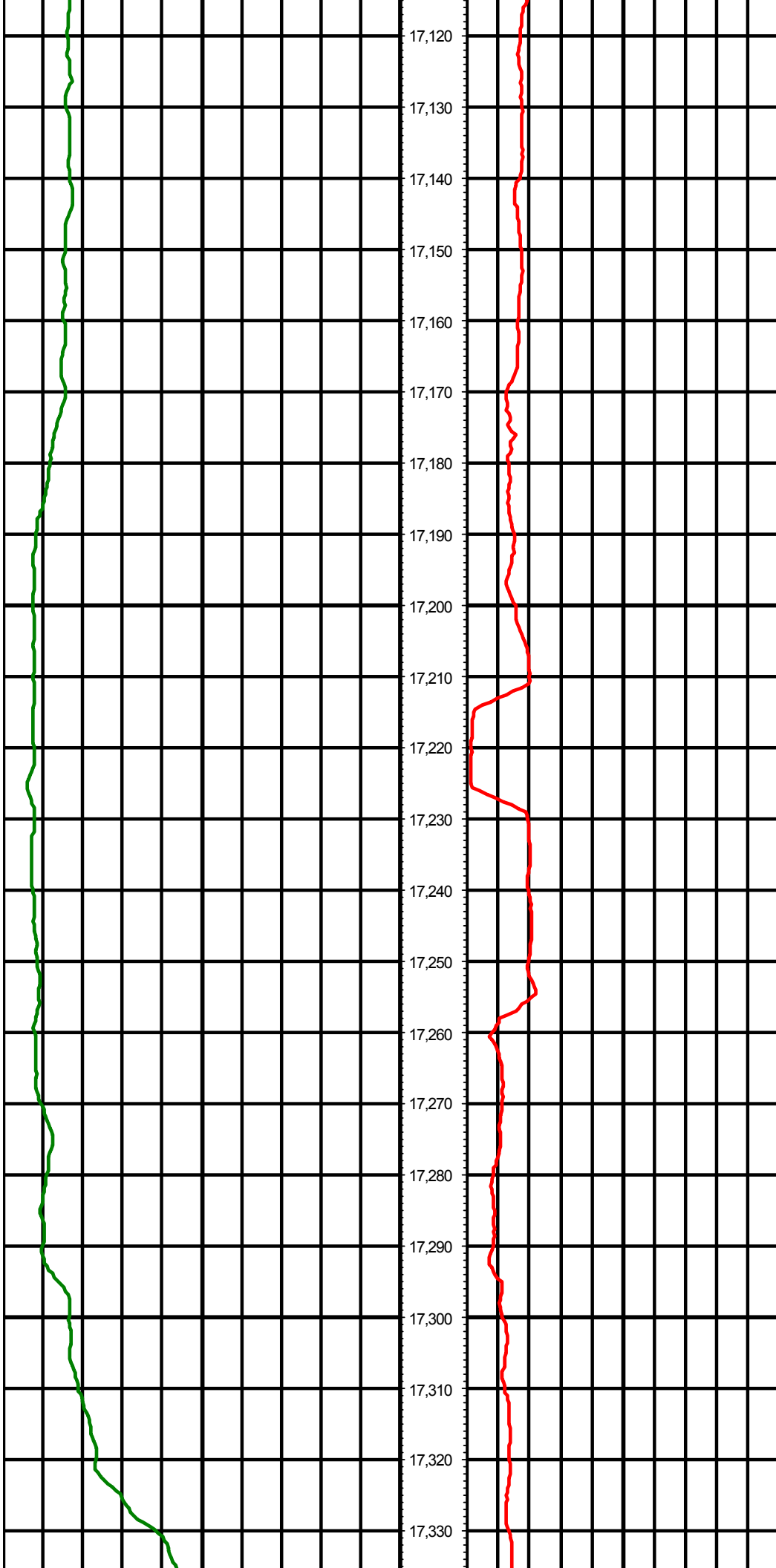
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MD: 16857.00 INC: 90.20 AZ: 359.70



MD: 16952.00 INC: 90.80 AZ: 359.40

MD: 17047.00 INC: 89.90 AZ: 359.70



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MD: 17141.00 INC: 91.80 AZ: 0.50

MD: 17237.00 INC: 89.90 AZ: 358.80

MD: 17332.00 INC: 90.30 AZ: 359.30

