

CATHEDRAL

Encana Oil & Gas
1949 North Pyrite Road
Casper, Wyoming 82604

145109

5":100' - MD

5/28/2014 9:19:26 AM

Oper. Company: Cathedral Energy Service

Country: USA

State / Province: Colorado

County / Parish: Weld

Started: 04/12/2014 03:30 PM

API/UWI: 051233766400

Field: DJ Basin

Well: Frederiksen 1B-28H

Rig: Ensign 135

Ended: 04/20/2014 11:00 PM

Gamma Ray
Section Plane: 270.00
Magnetic North: 8.61
Gamma Attenuation Factor: 2.89
Gamma Averaging: 7%

Personnel

Day Hand: J. Corby

Night Hand: J. Smith

Comp. Emp: William La Force

Maximum Temperature: 95°F

Location

Latitude: 40.202030

Longitude: -104-999340

Elev. GL: 4992

Elev. DF:

Elev. KB: 5005

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

Hole Data

Size	From	To
8-3/4	864	7750
6-1/8	7750	11784

Casing Data

Size	From	To
9 5/8	0	852
7	0	7733
4-1/2	0	11784

Bit Sizes

Size	From	To
8-3/4	864	7750
6-/8	7750	11784

Mud Data

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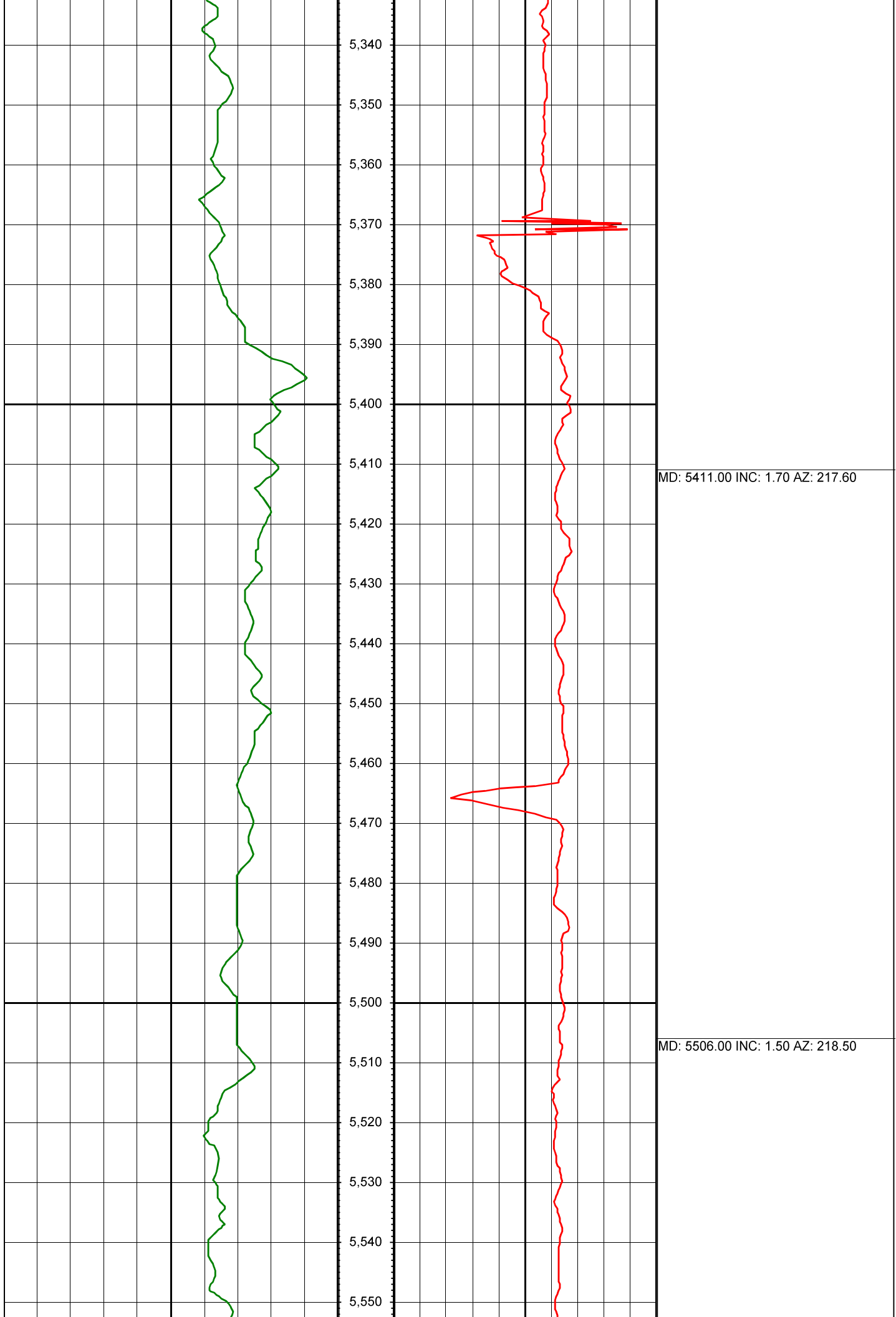
Tool Run Data

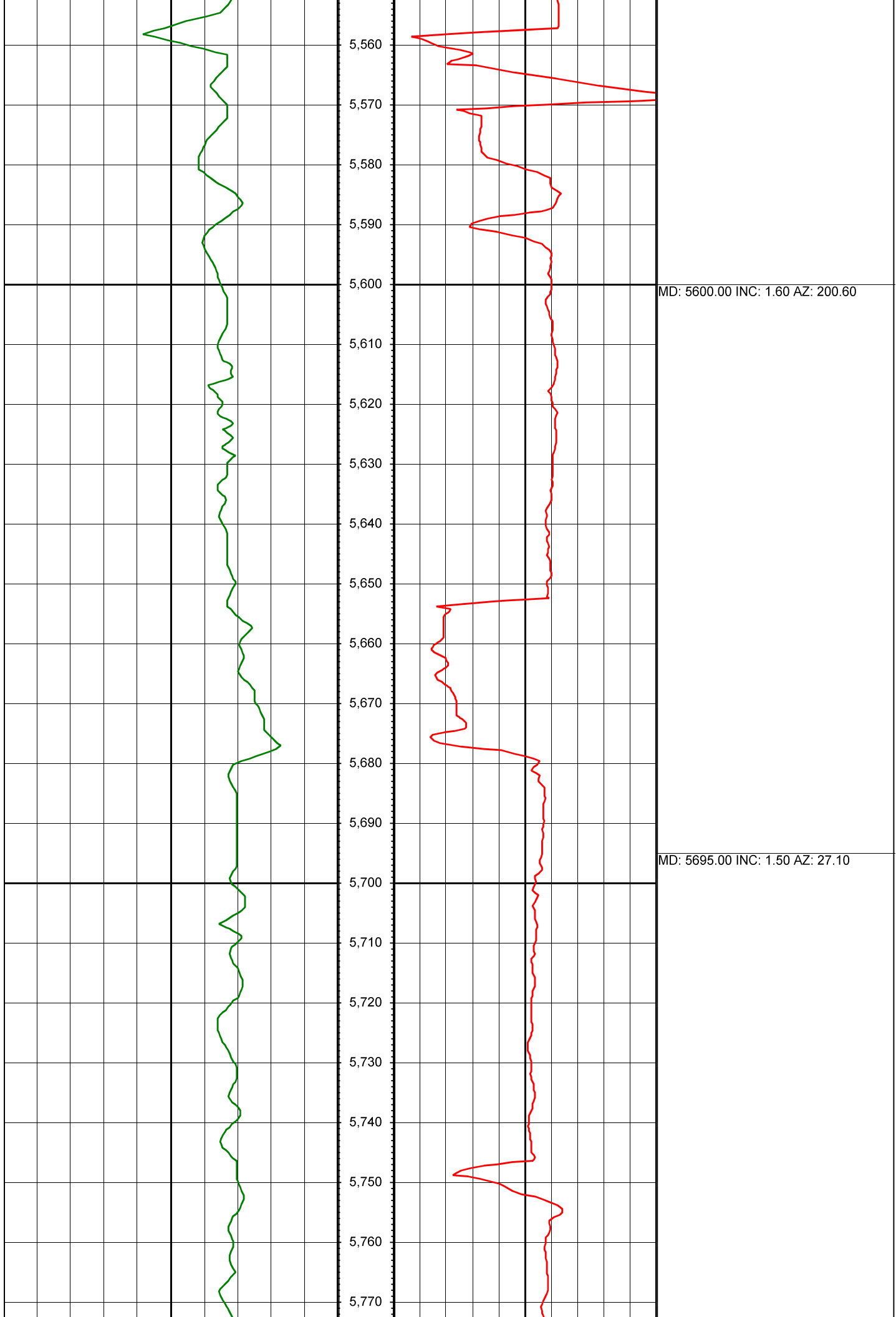
Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
1580	39.65	0	4/12/2014 3:30:39 PM	864	4/13/2014 4:30:39 PM	5370
1634	39.65	0	4/13/2014 4:30:44 PM	5370	4/15/2014 9:00:44 AM	7750
1634	38.1	0	4/16/2014 1:00:03 PM	7750	4/20/2014 11:00:03 PM	11784

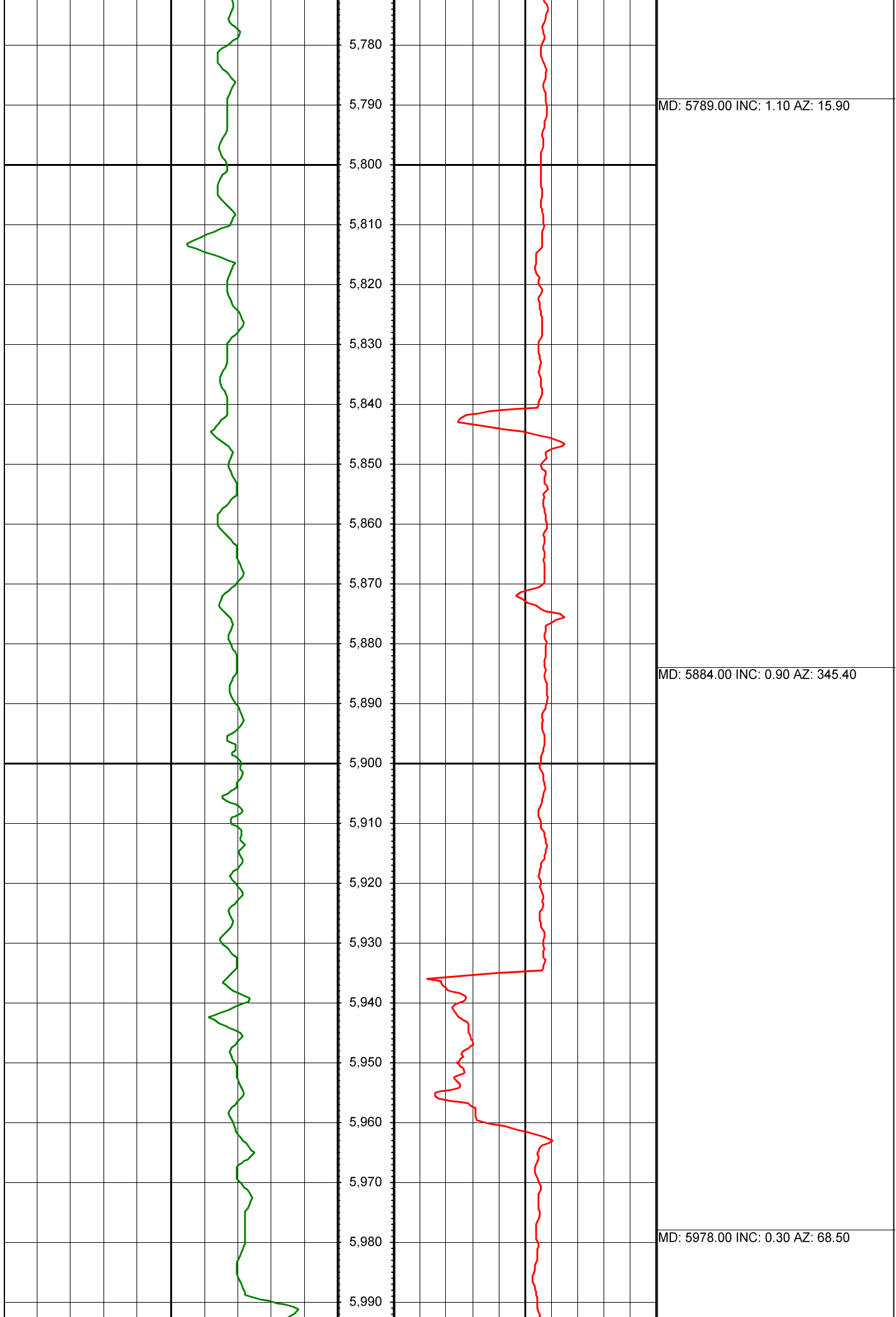
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost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

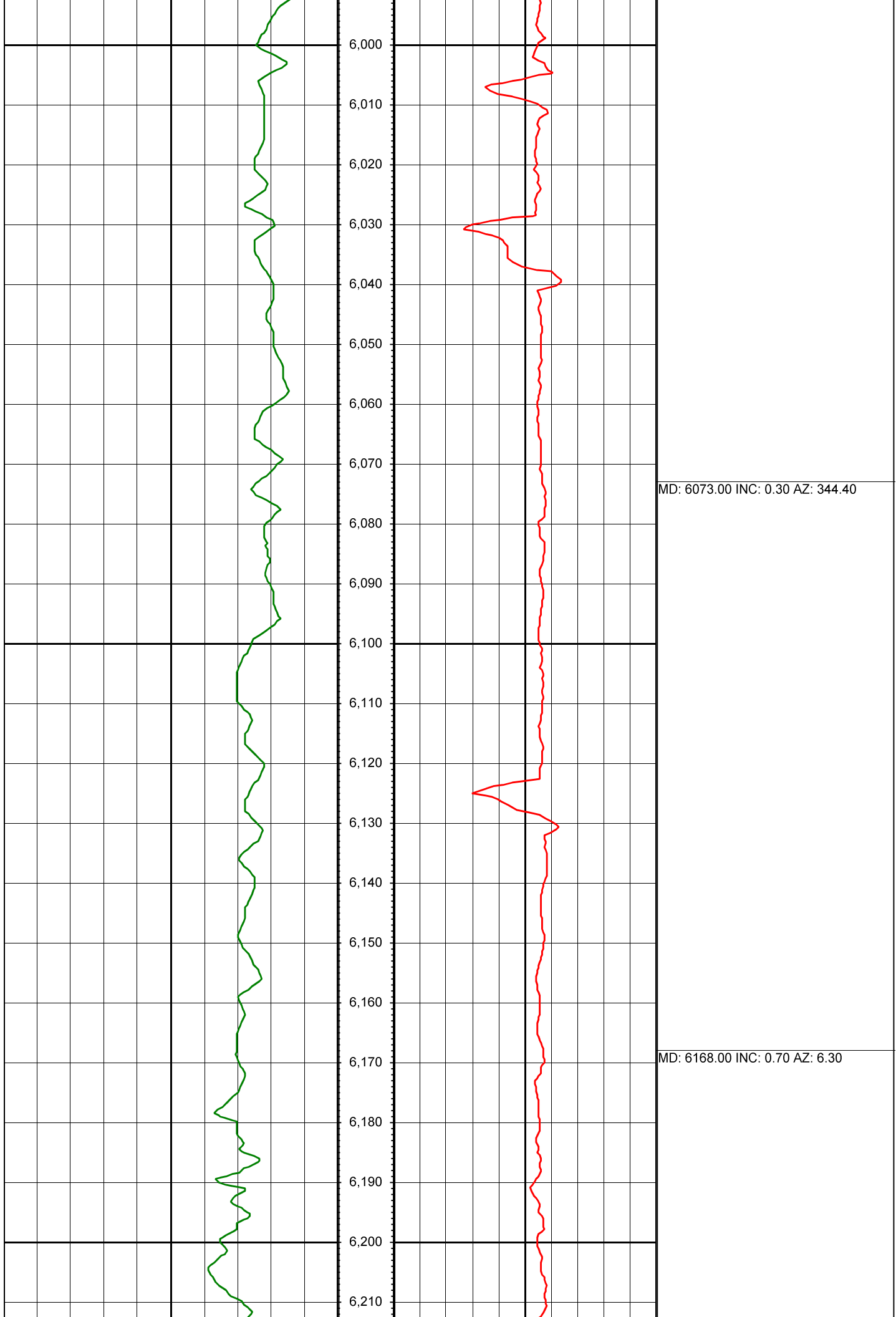
Gamma Ray (API)			MD	ROP (FT/HR)		Surveys (MD/INC/AZ)
0.00		150.00		0.00	600.00	
150.00	2	300.00	FT			
300.00	3	450.00				

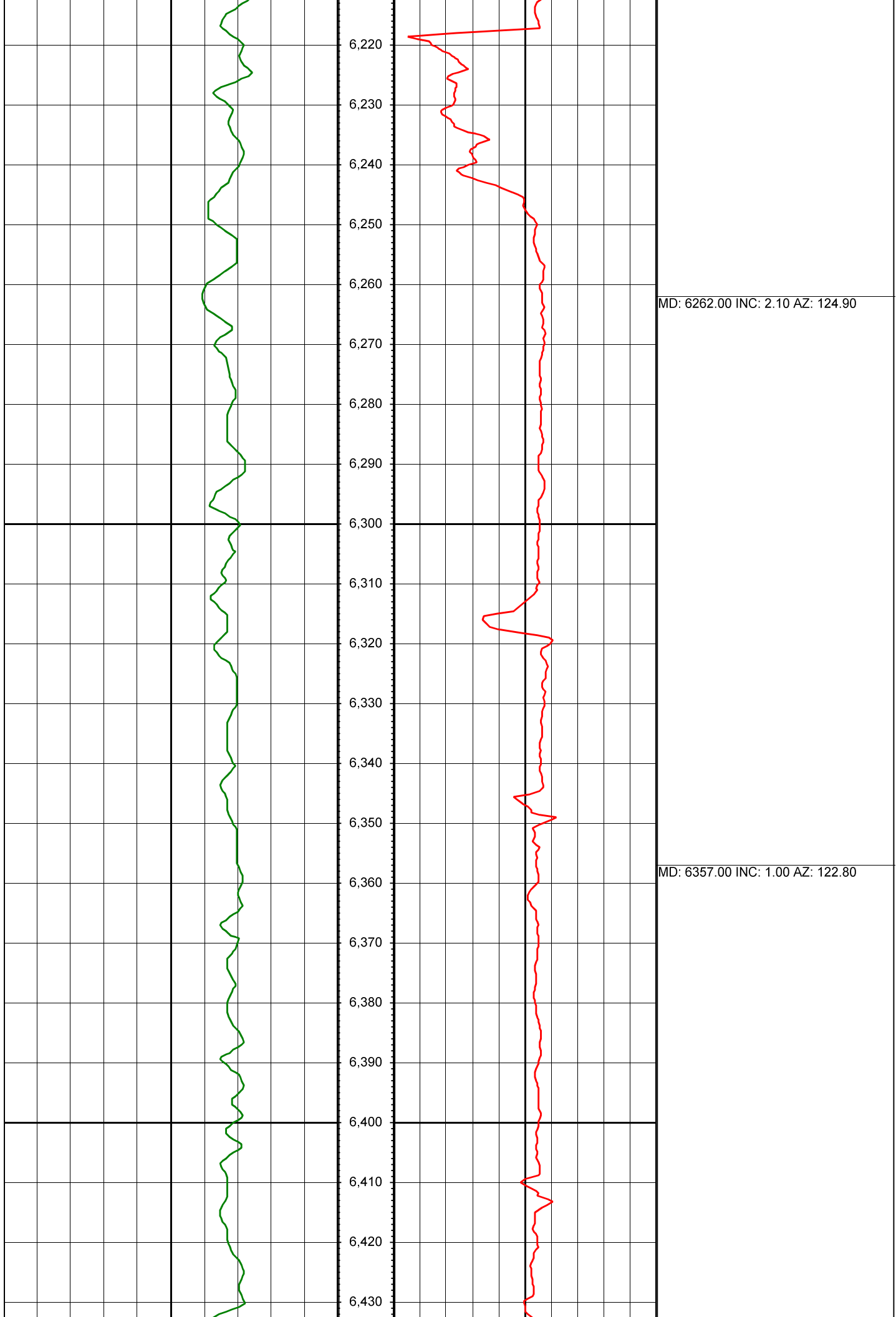
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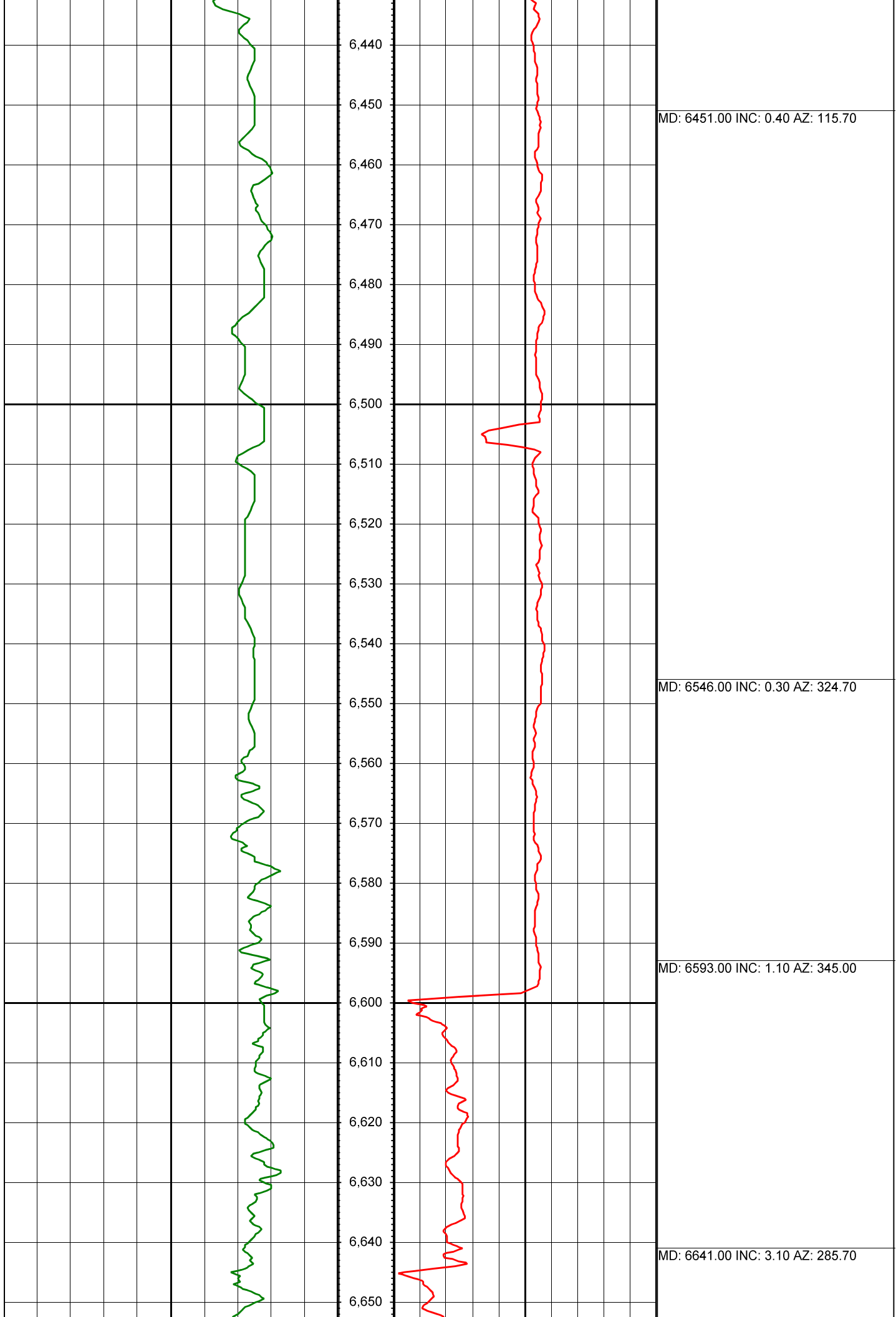


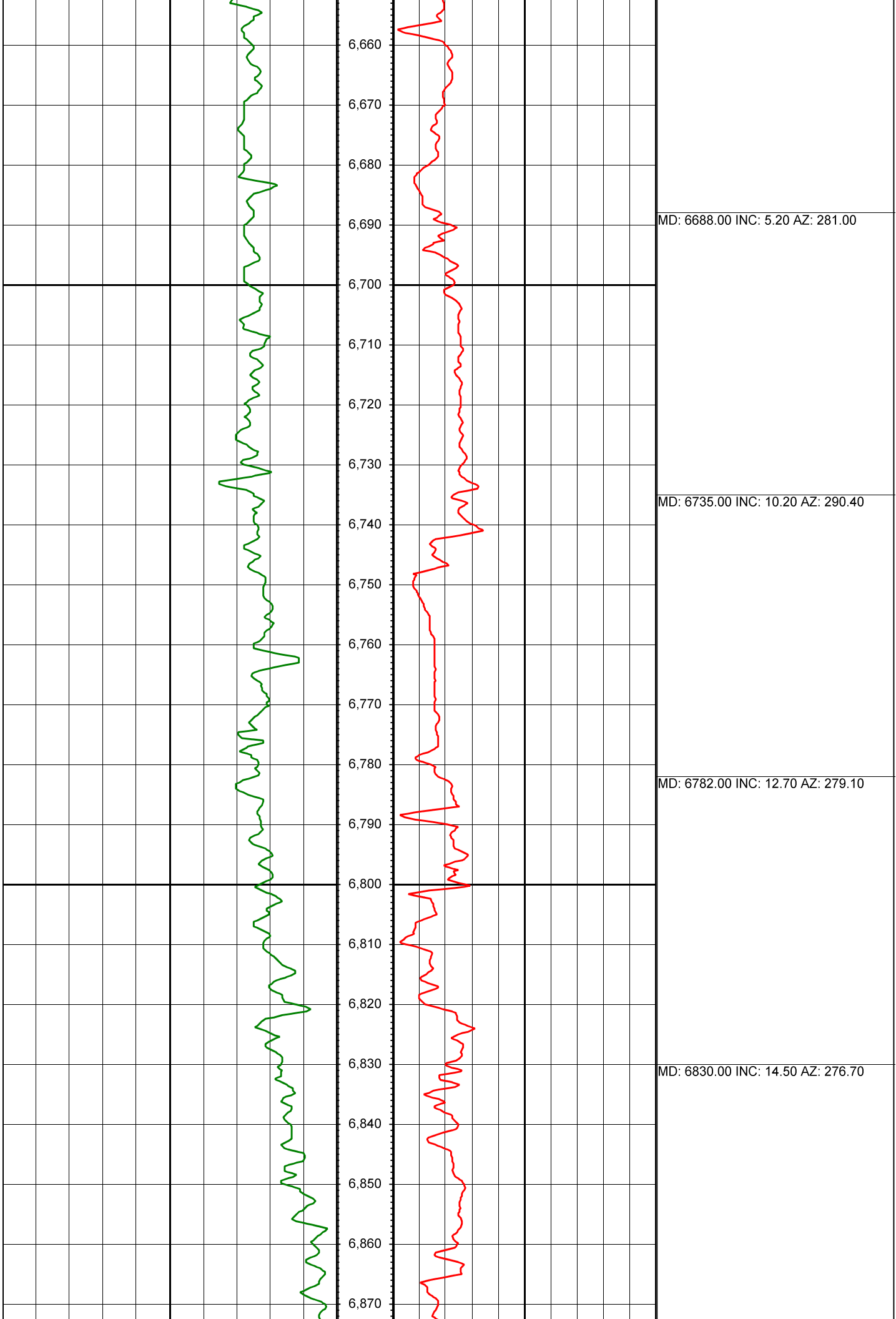


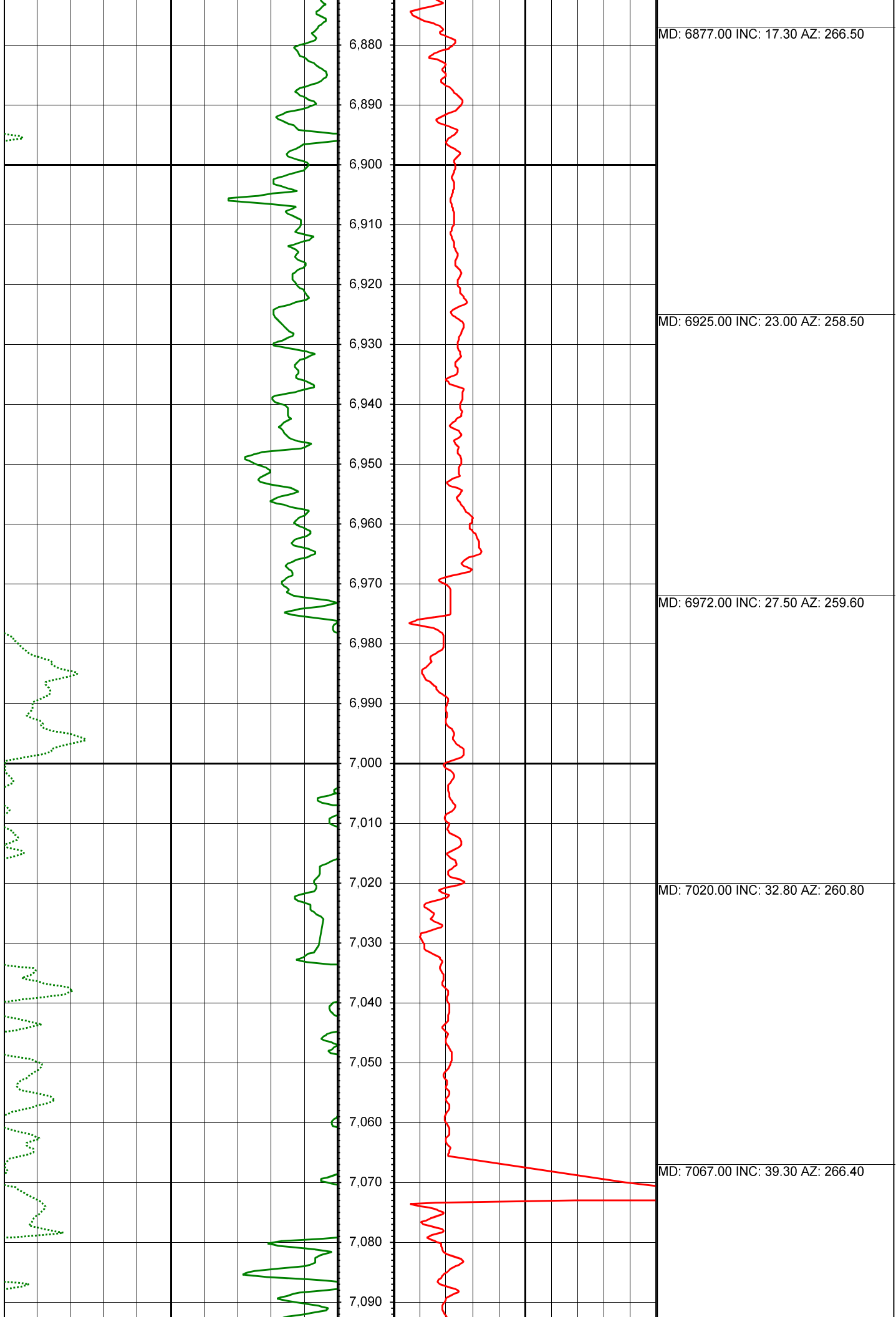


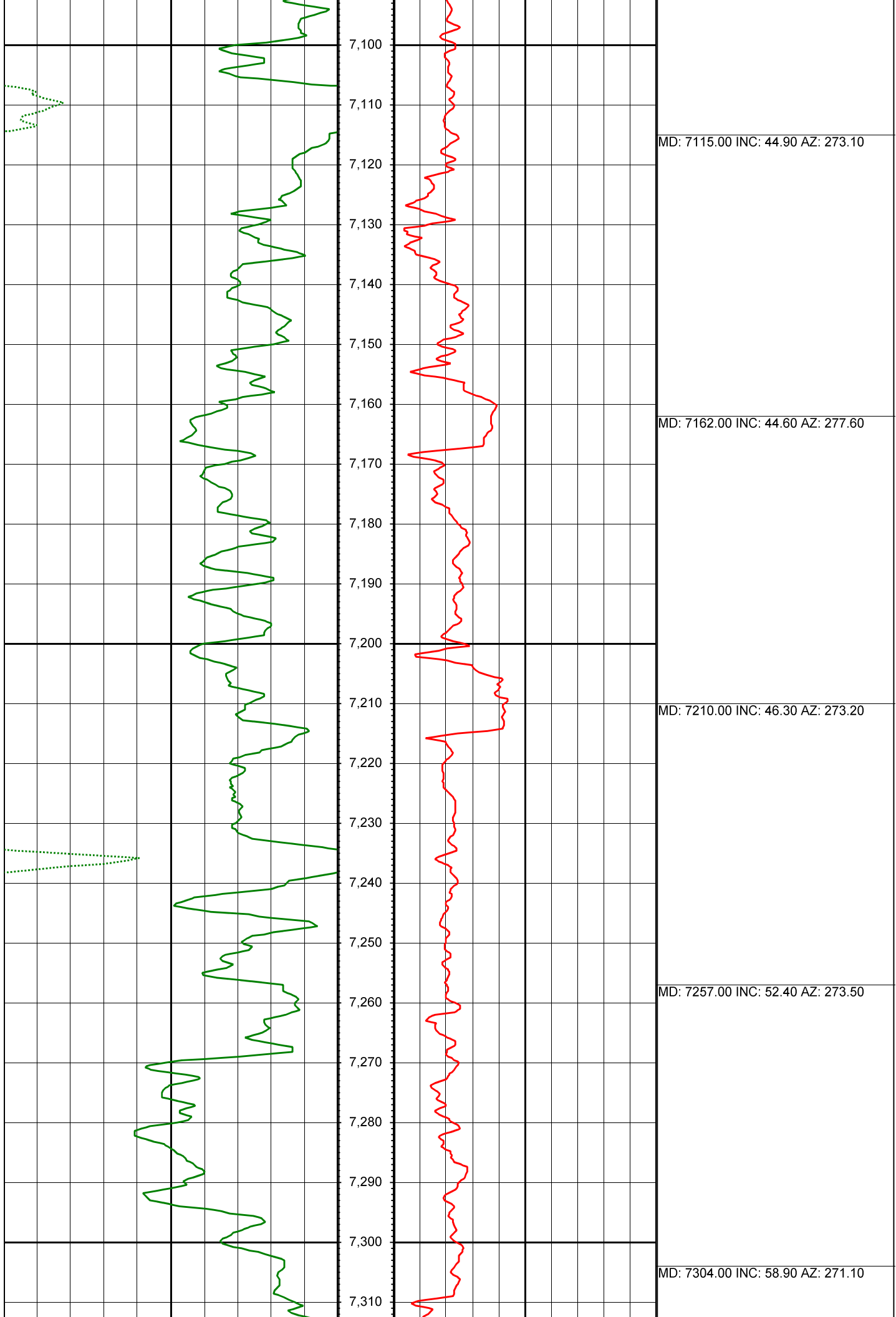


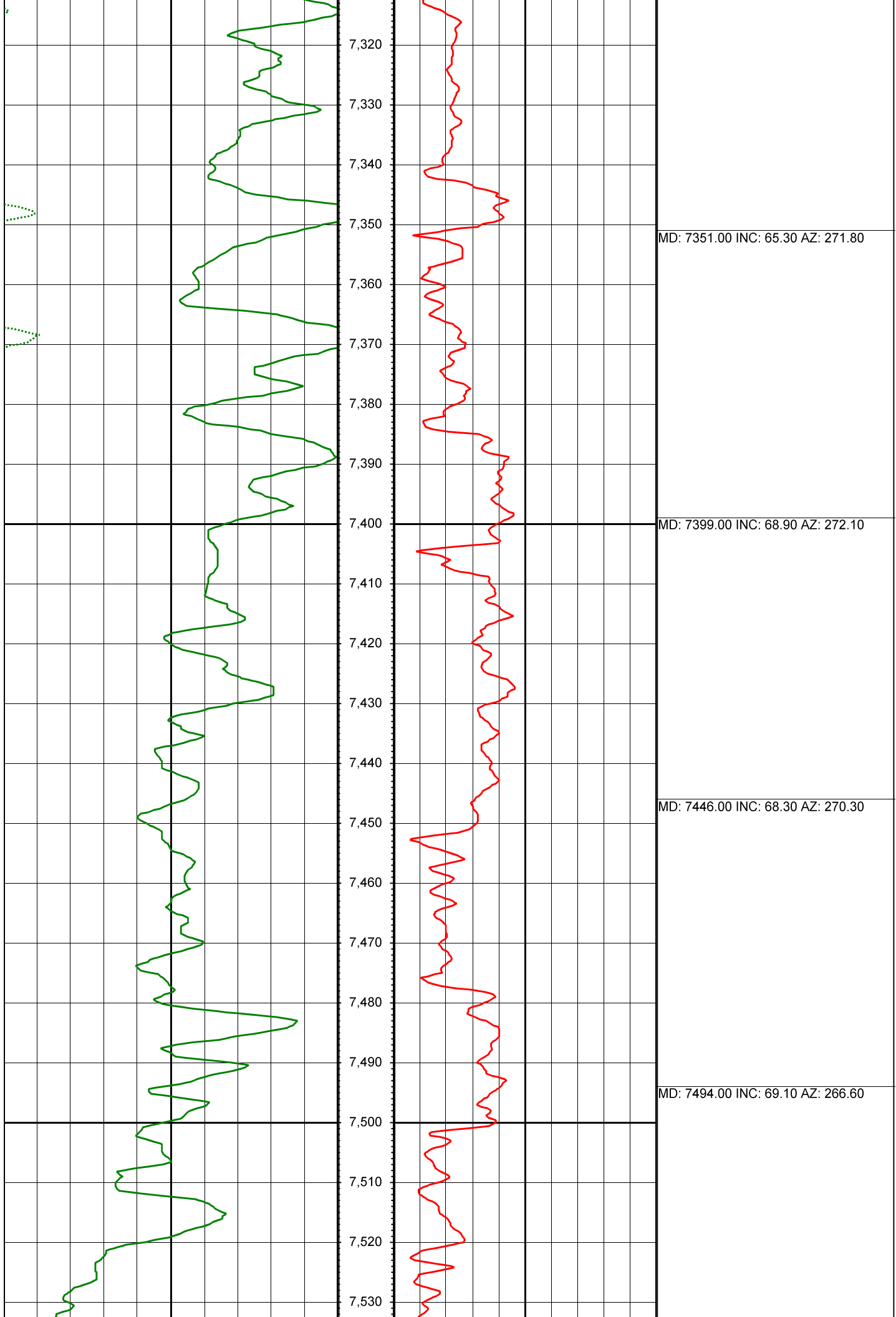


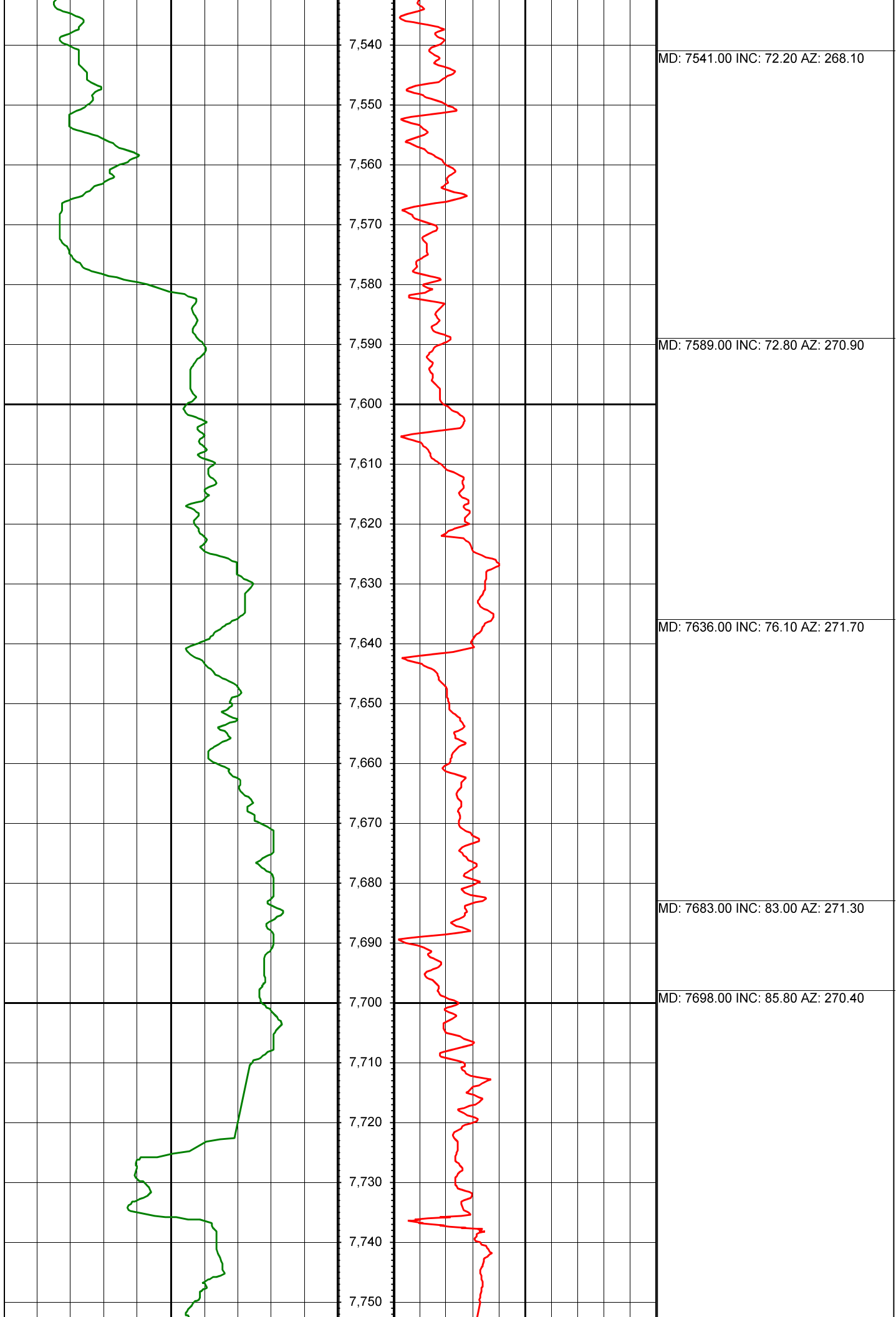


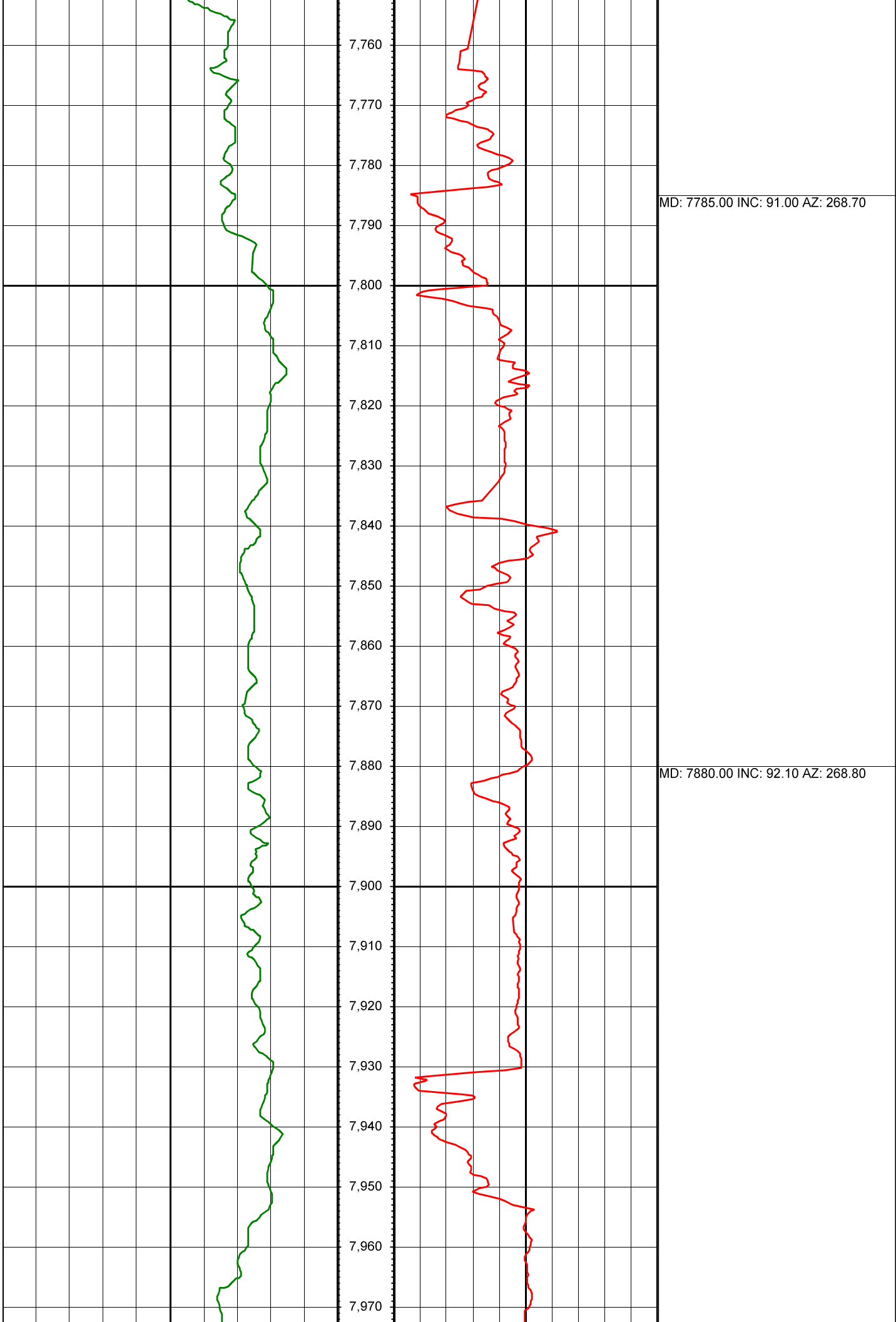


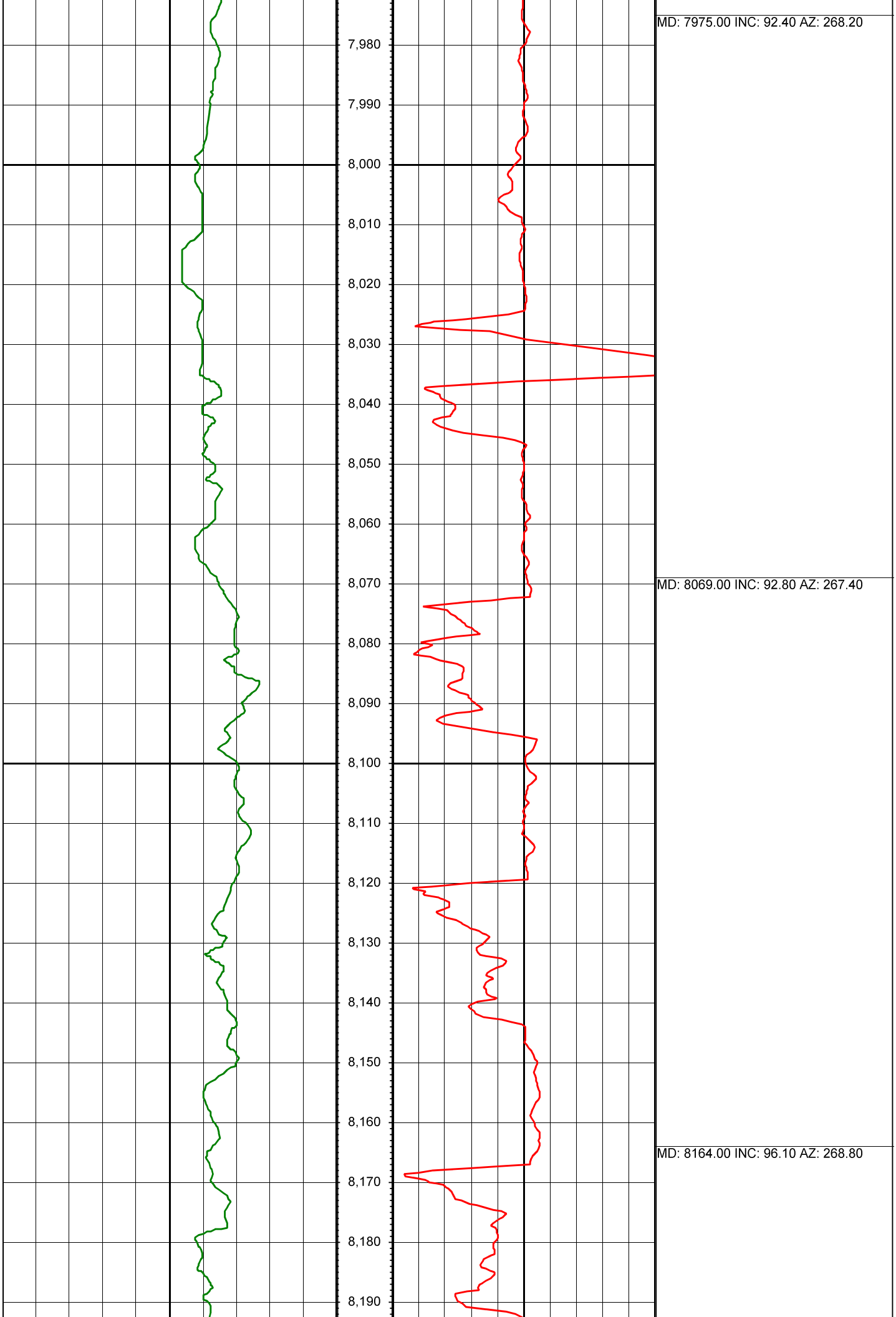


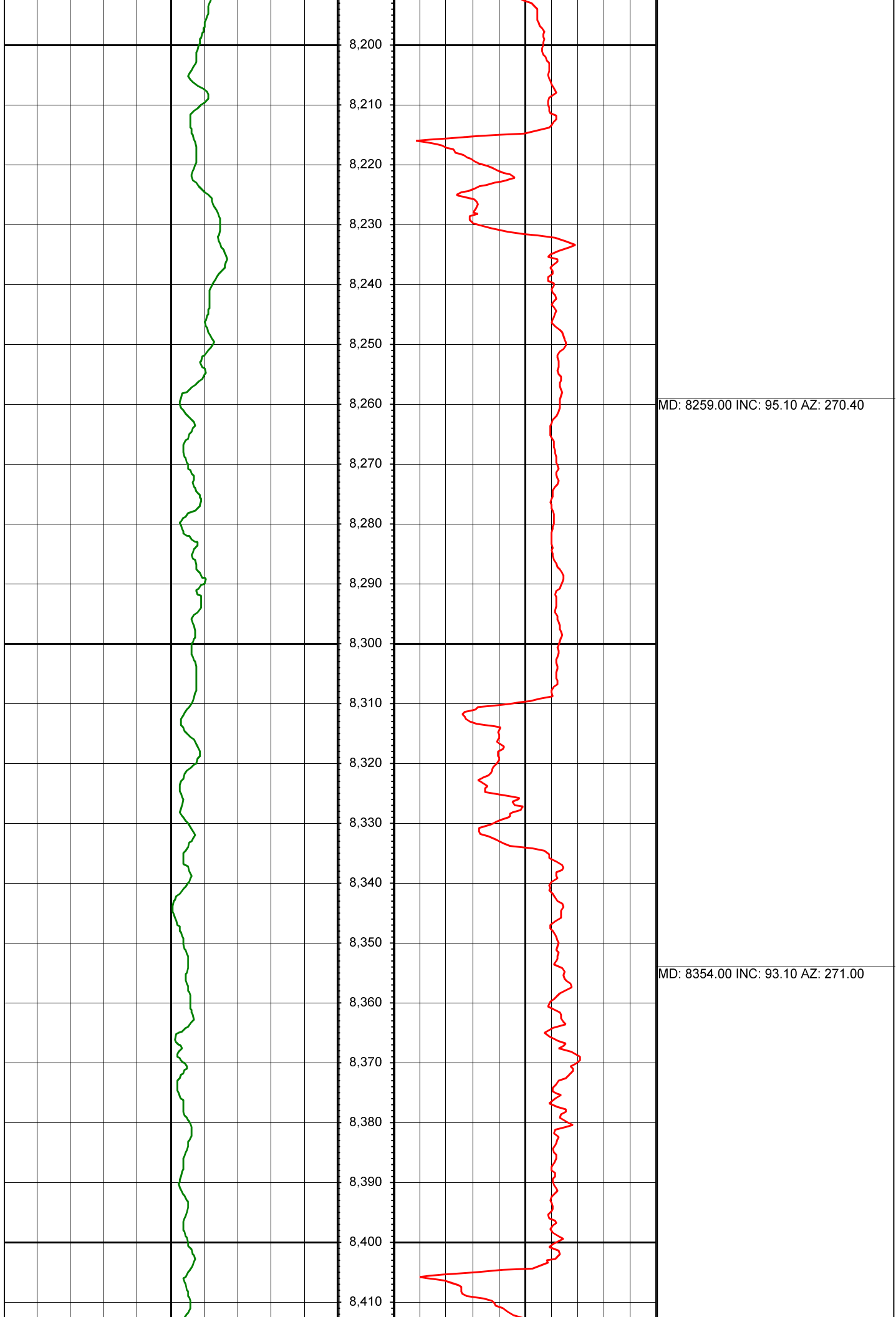


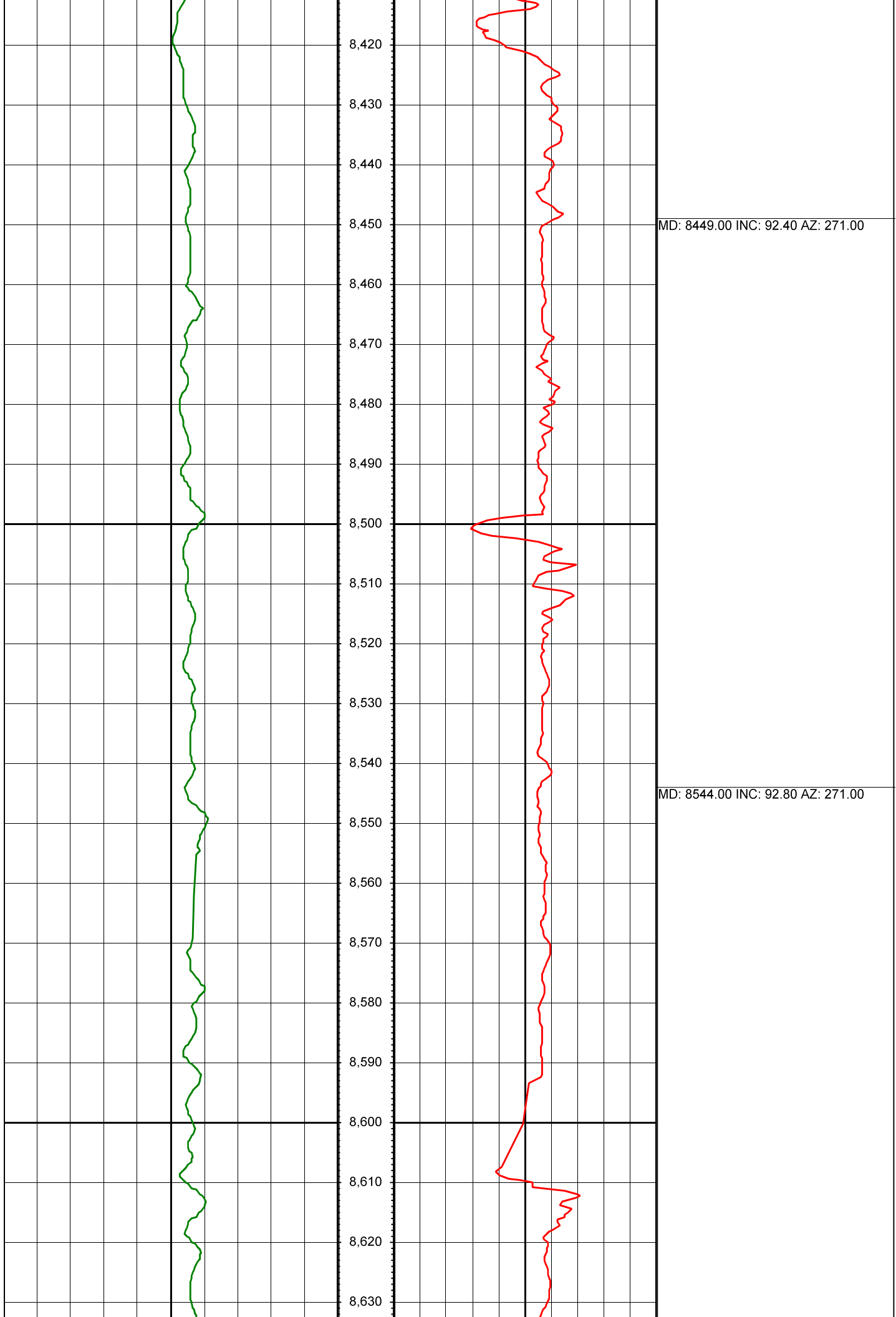


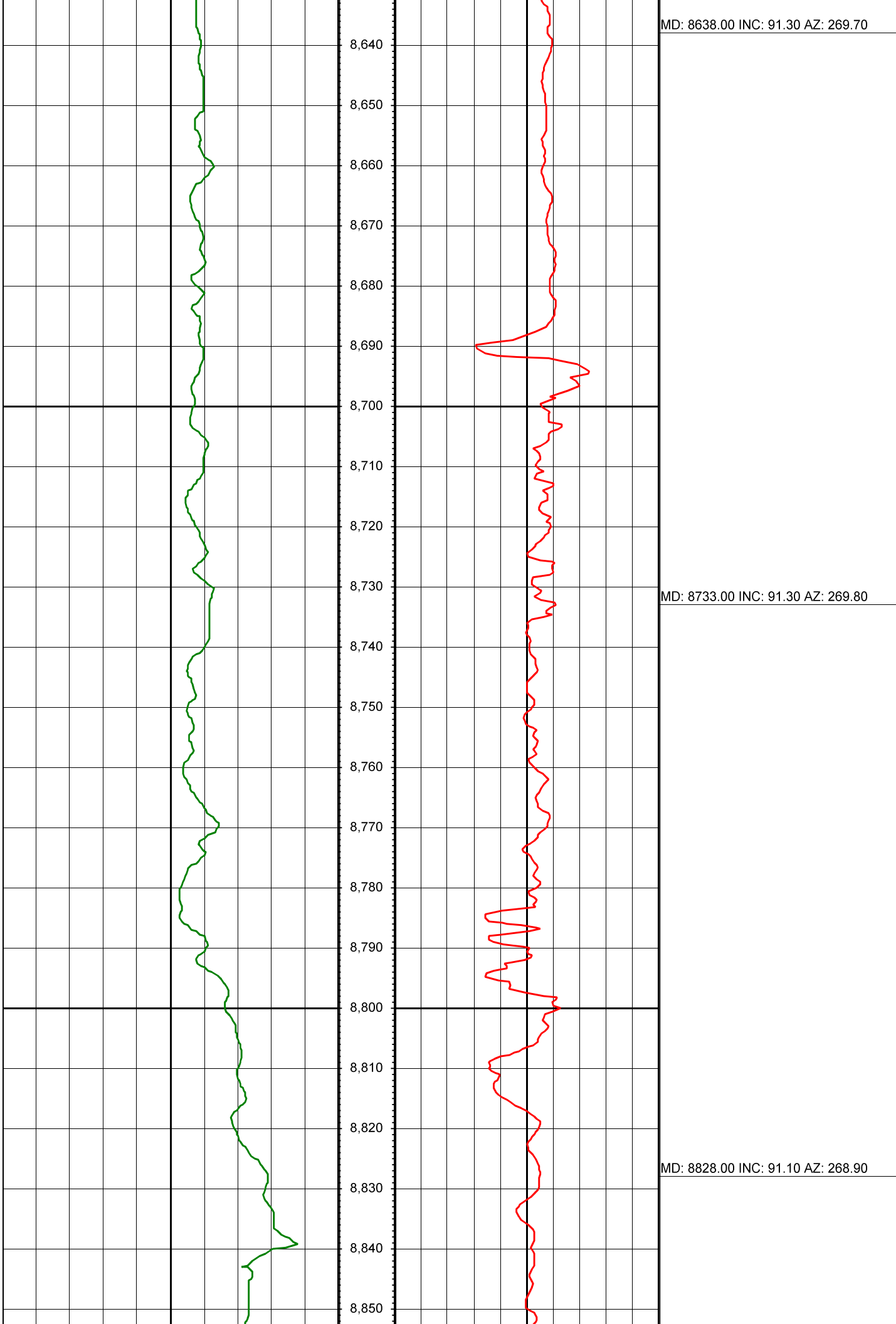


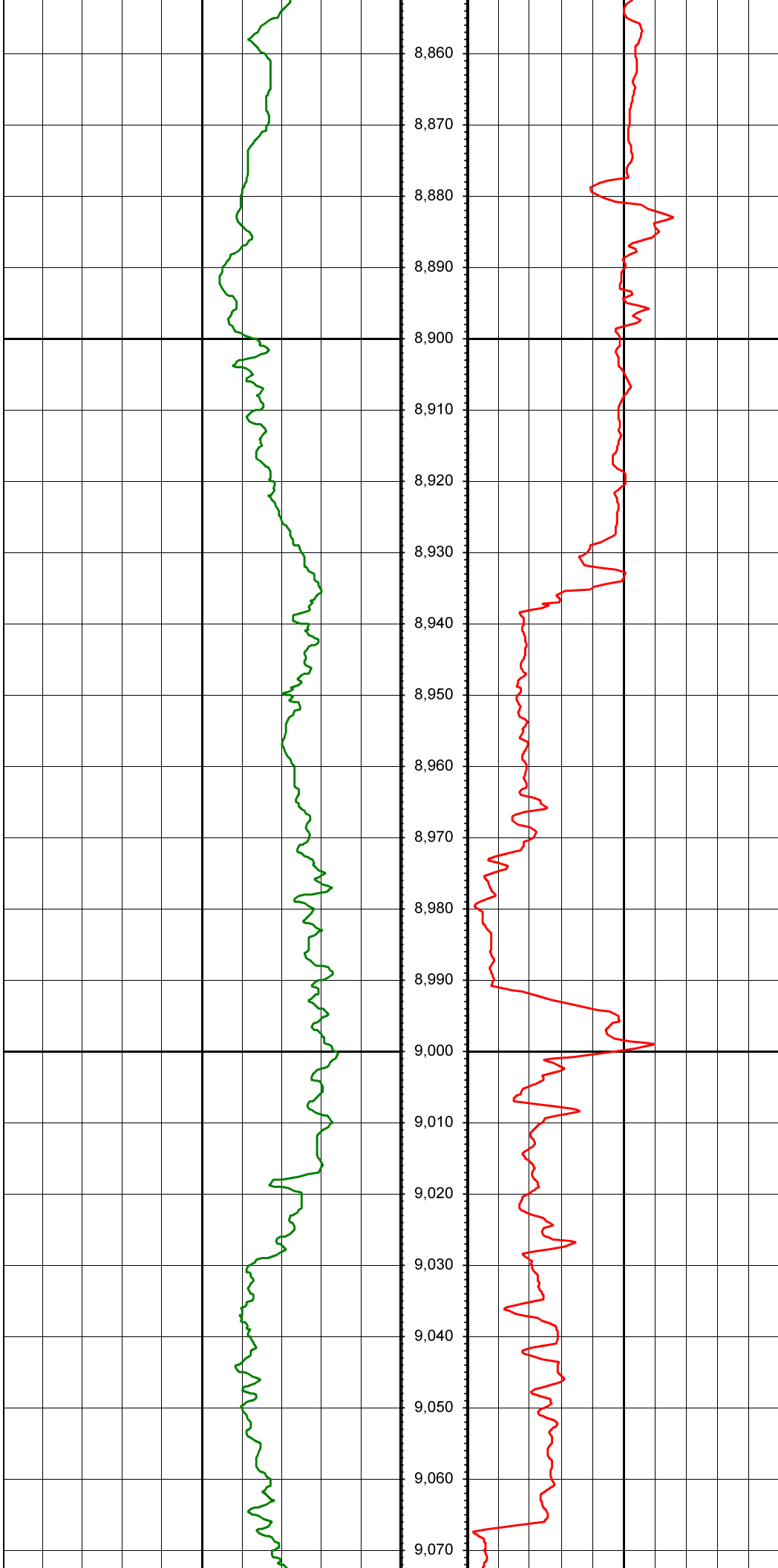






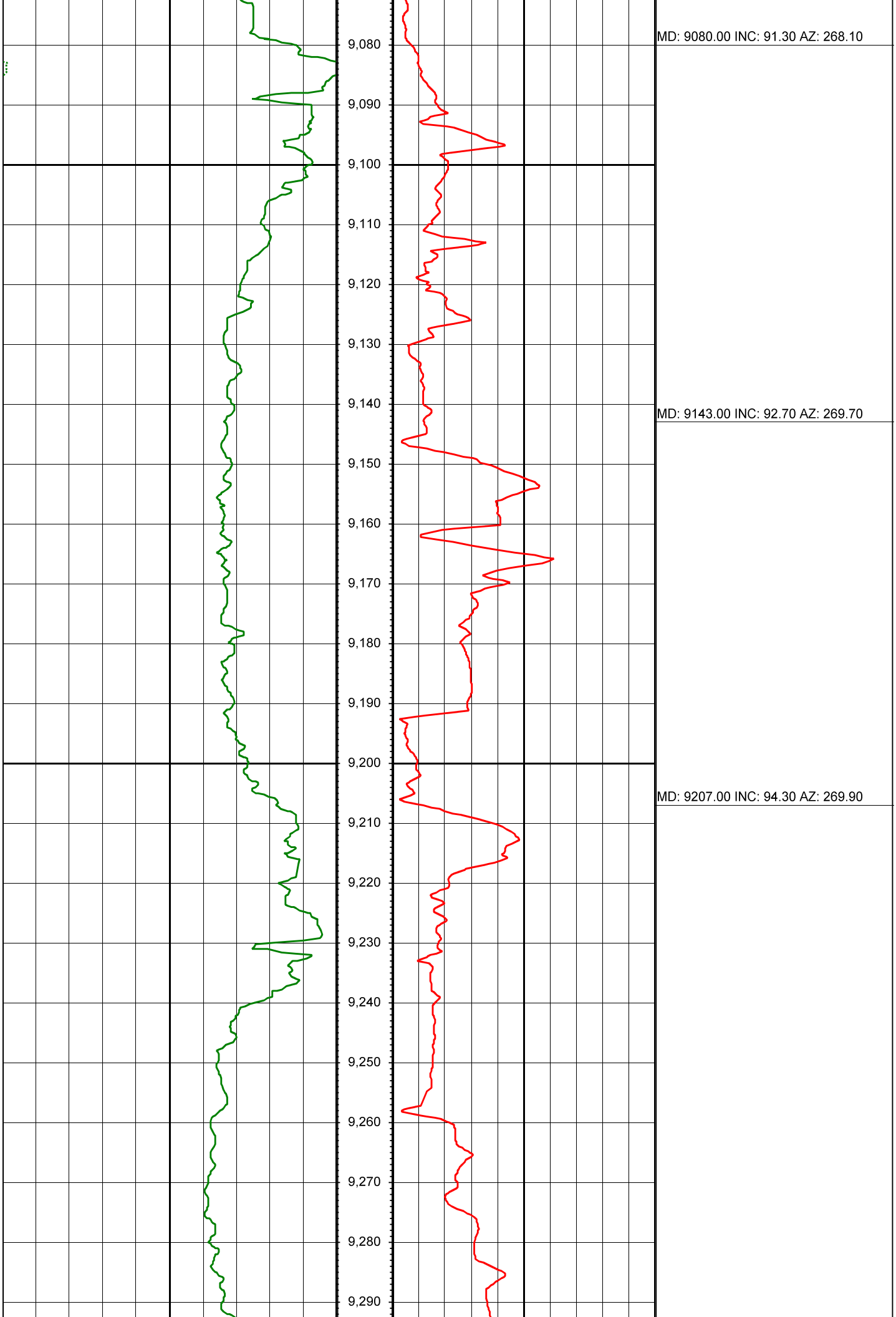


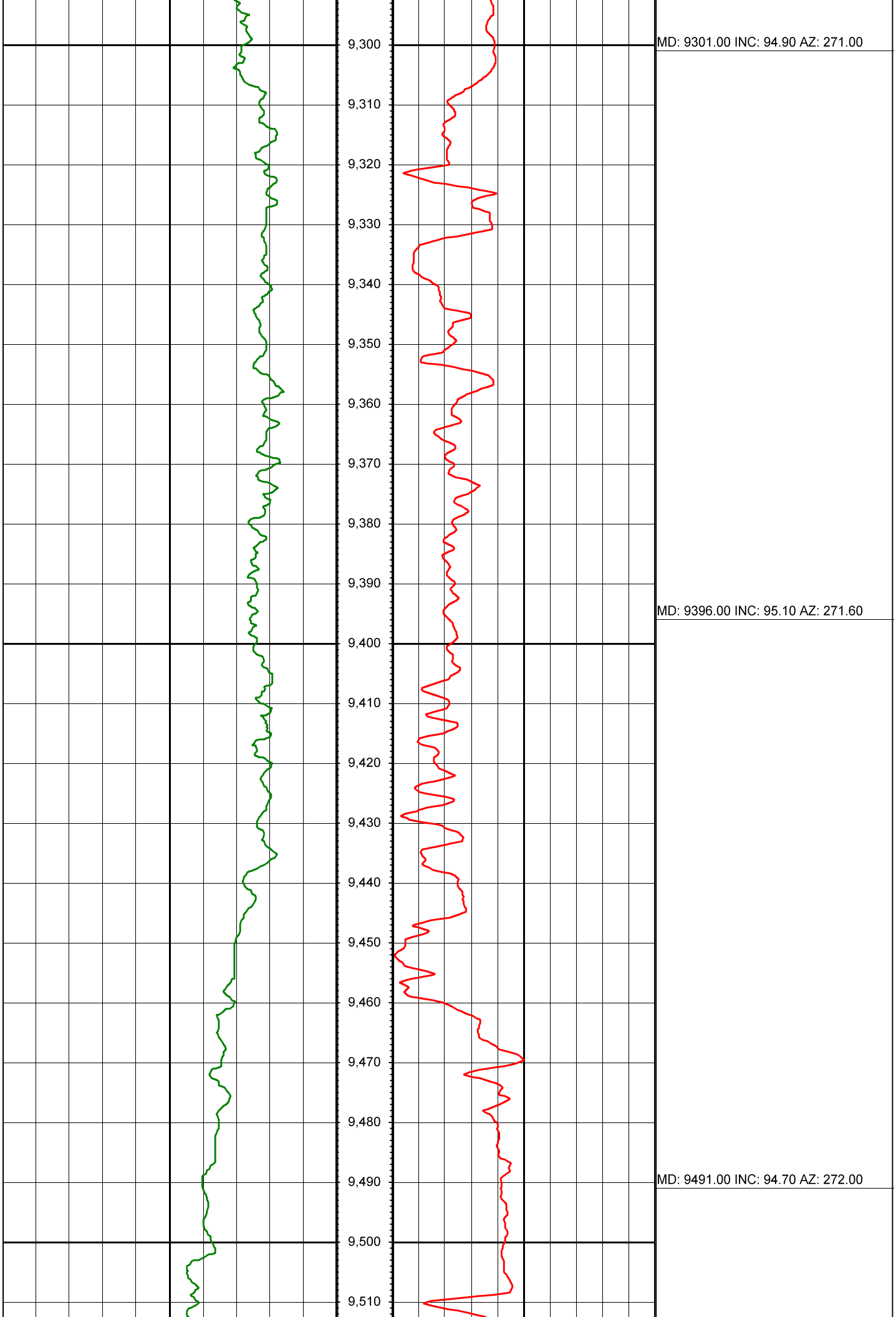


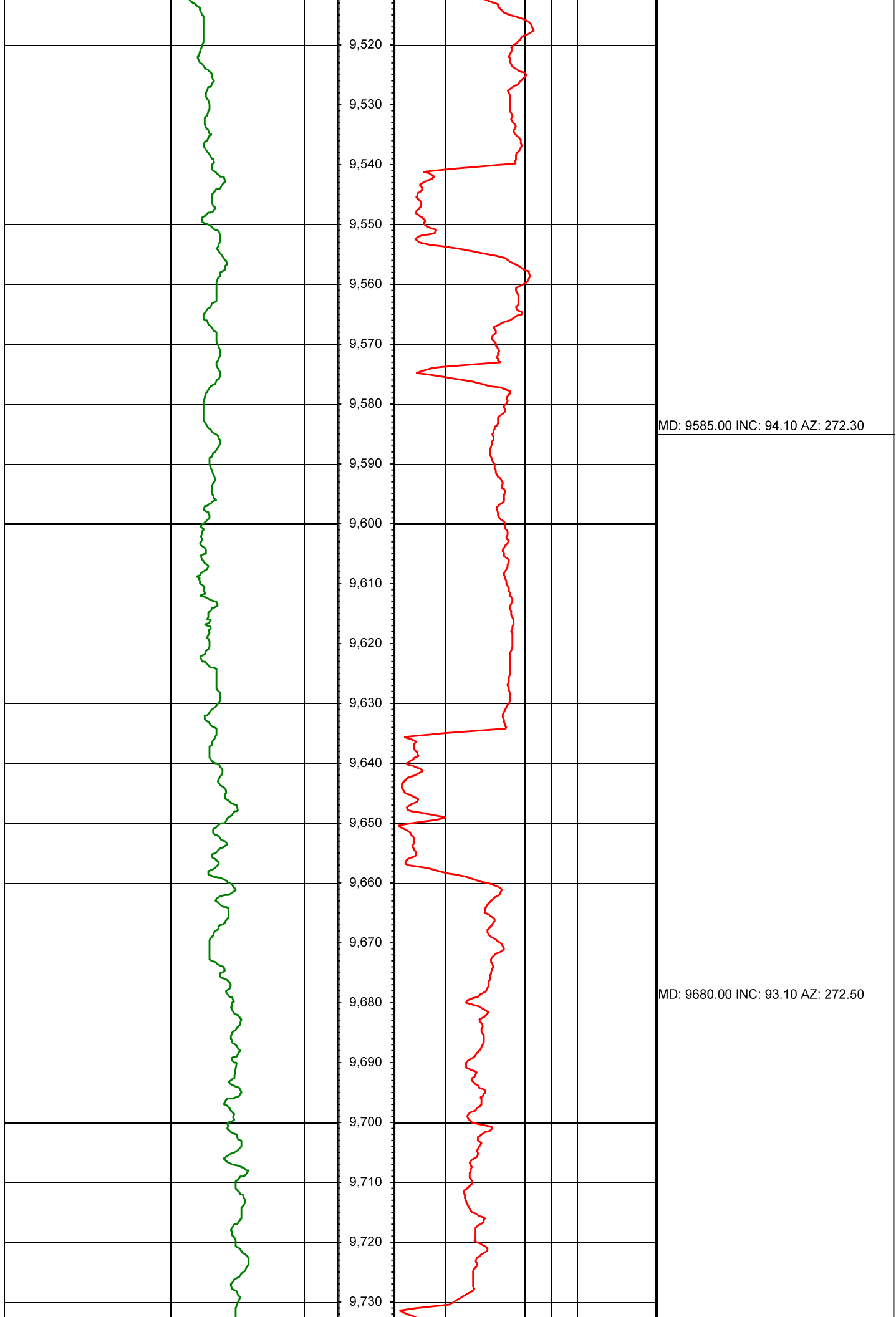


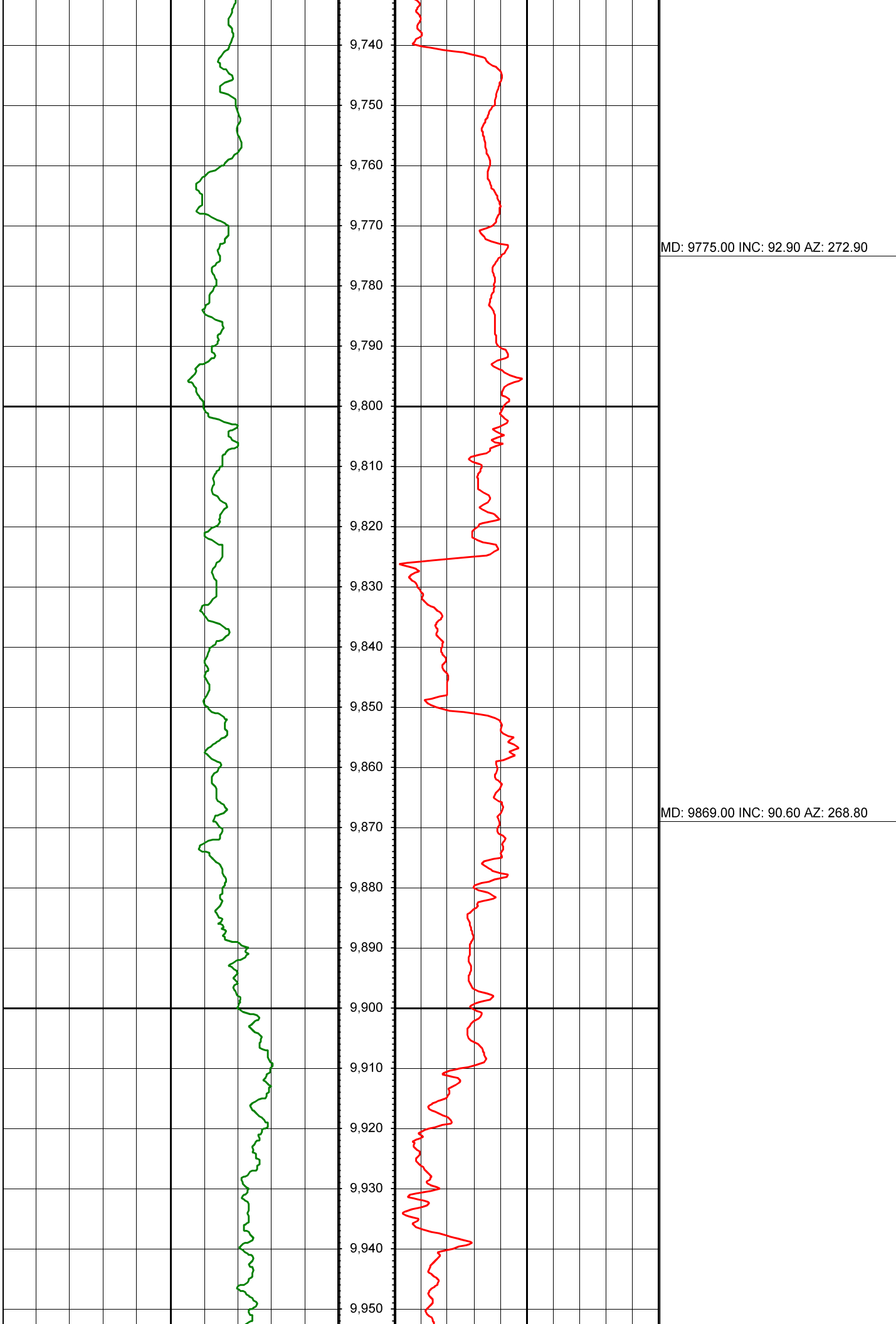
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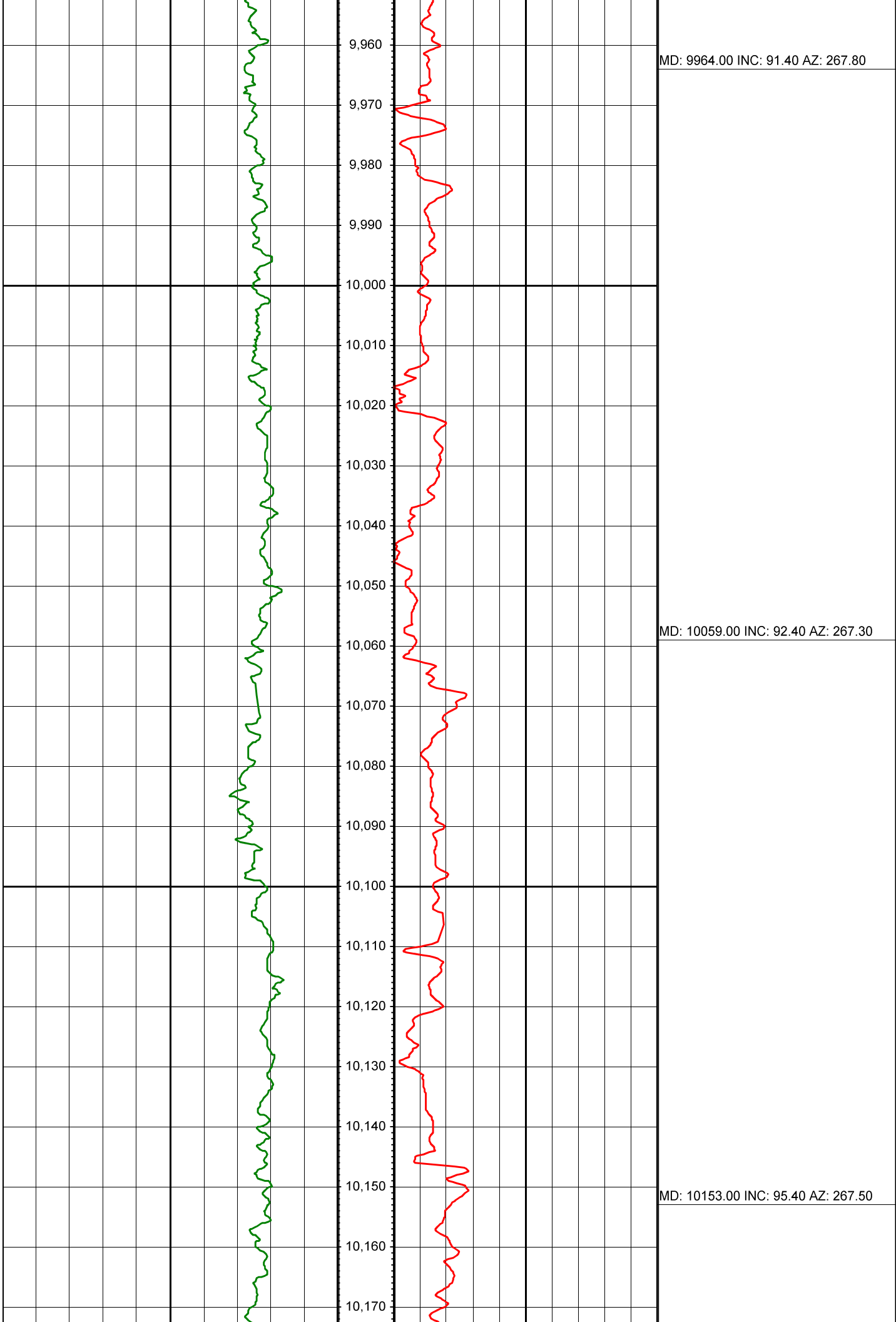
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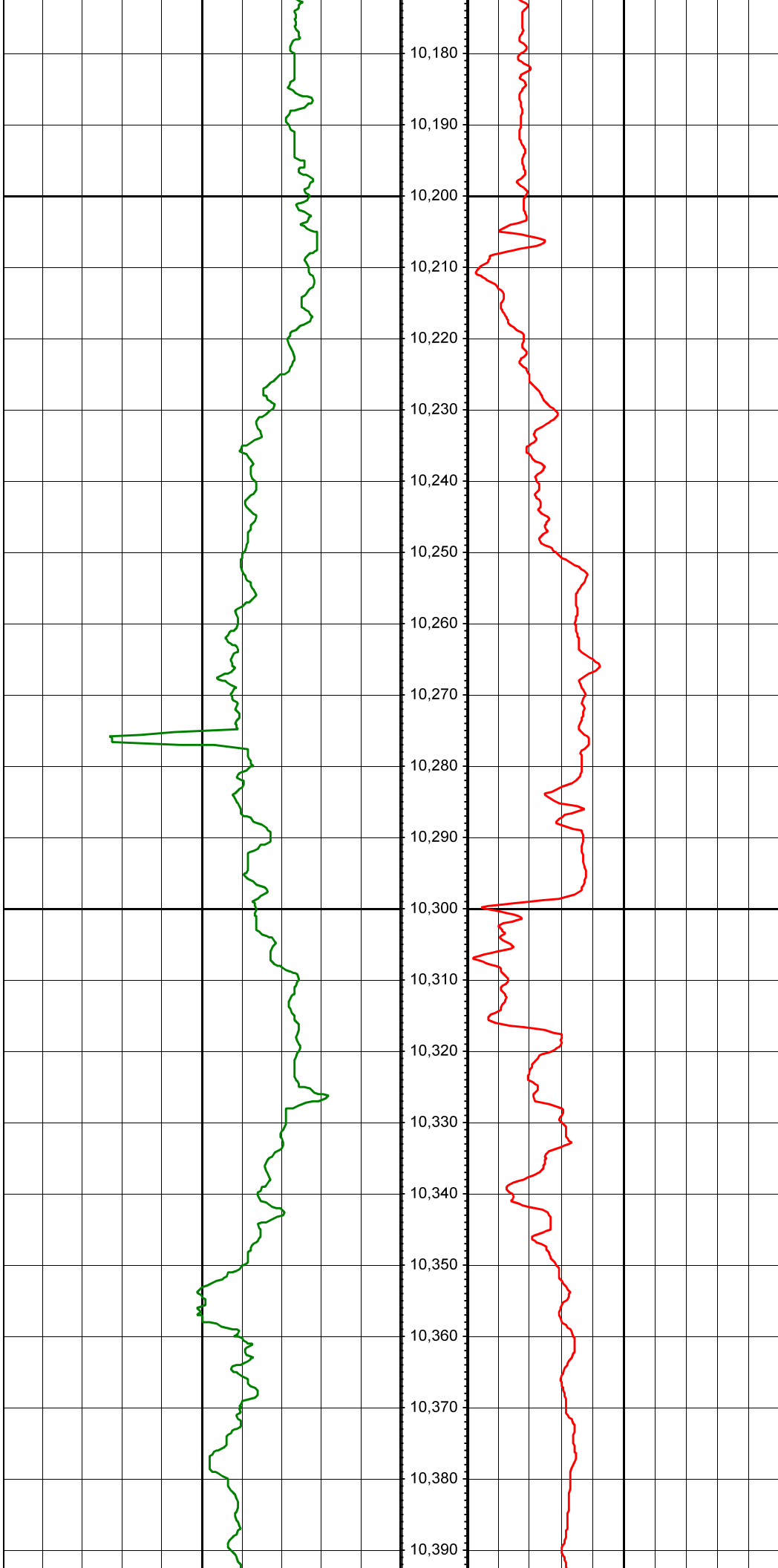






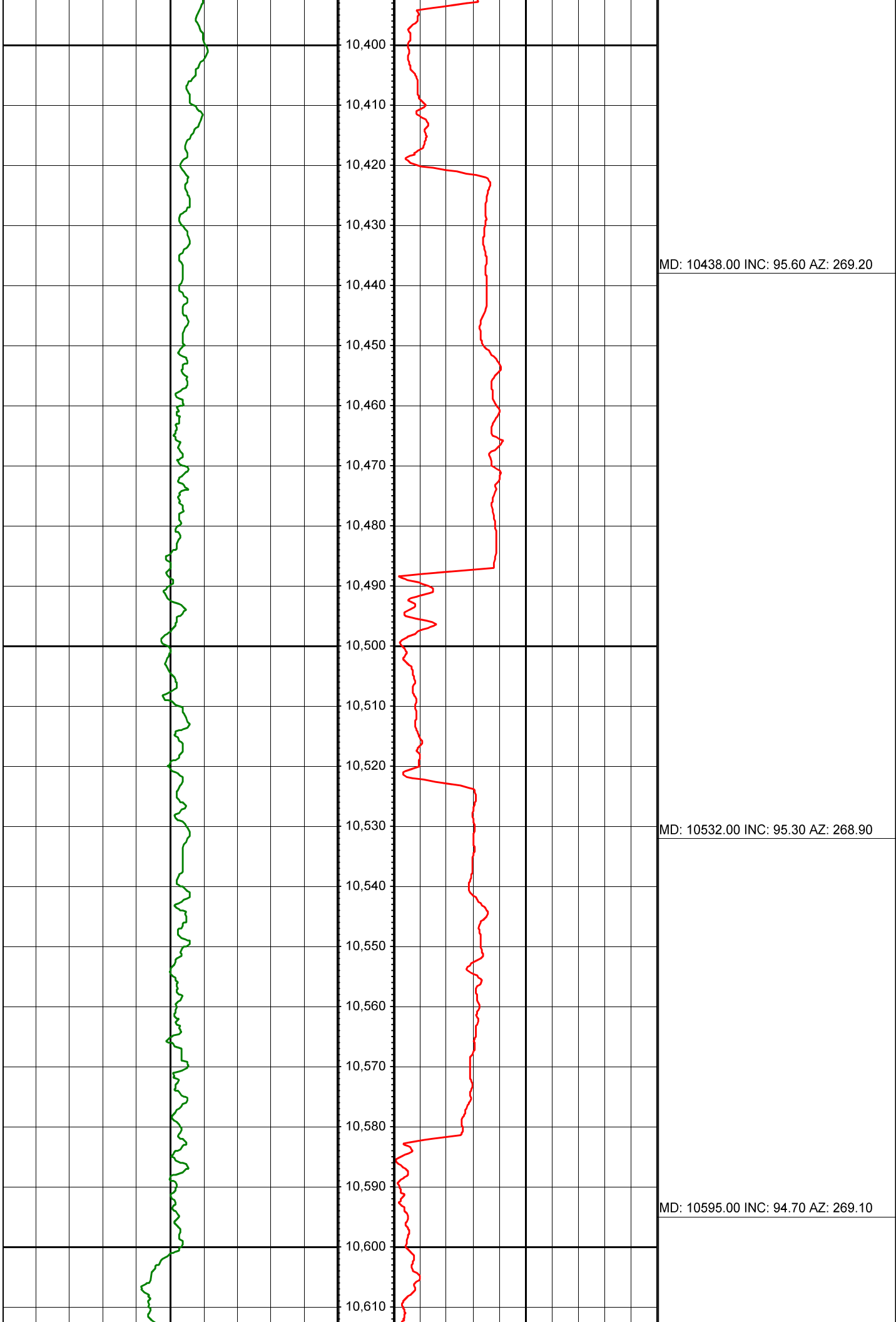


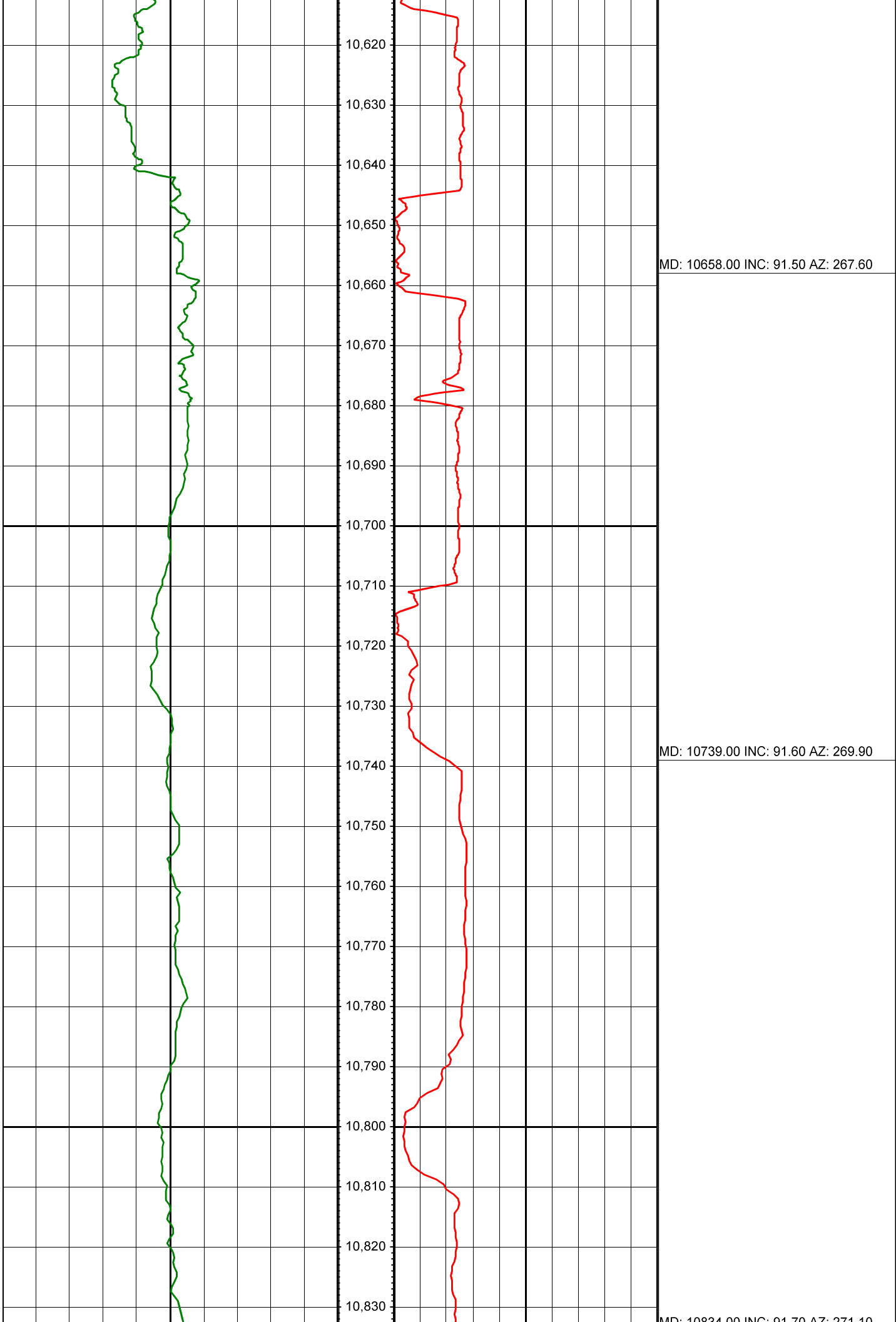


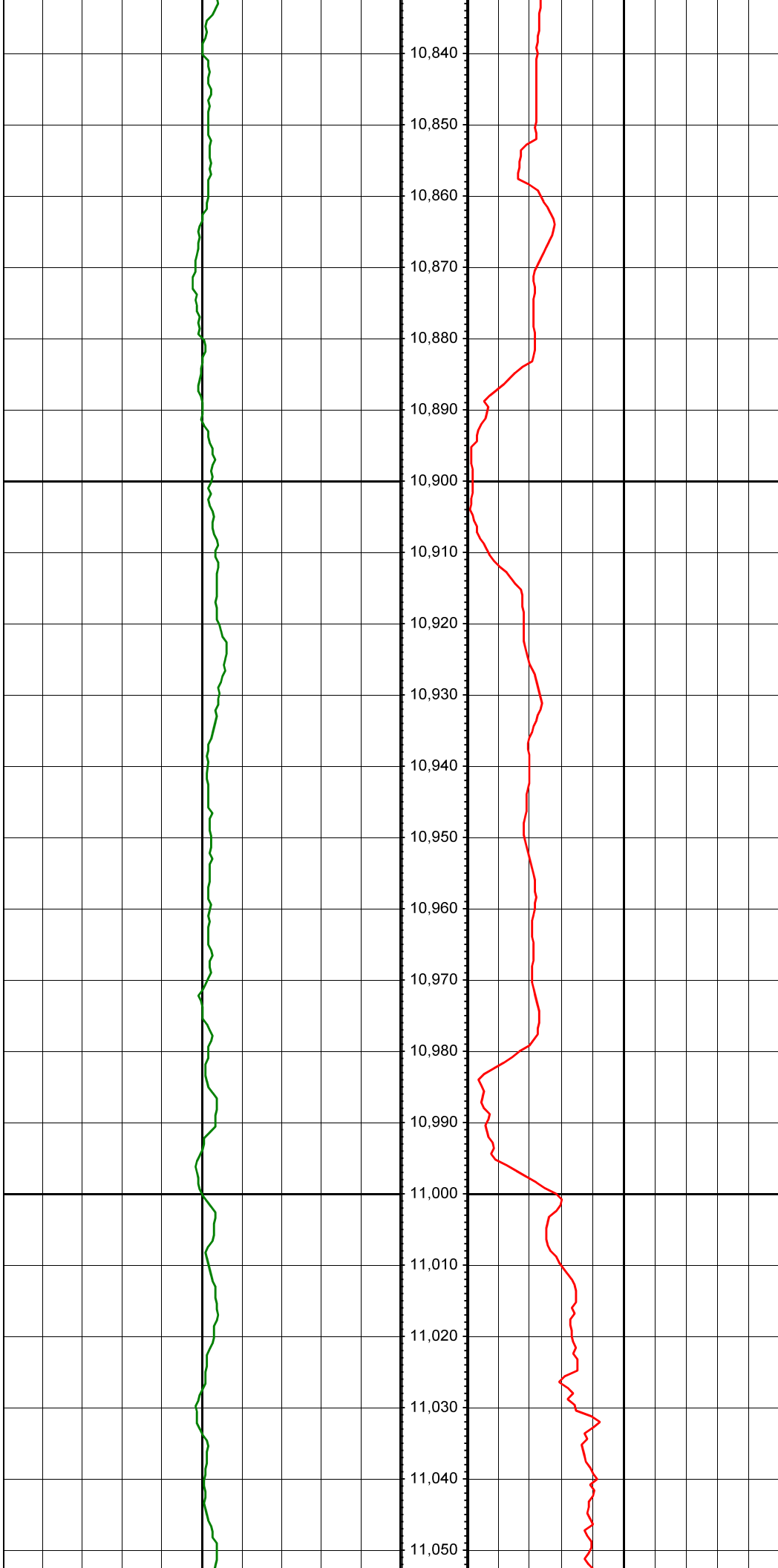


MD: 10248.00 INC: 95.80 AZ: 267.50

MD: 10343.00 INC: 96.60 AZ: 267.60







MD: 10834.00 INC: 91.70 AZ: 271.70

MD: 10929.00 INC: 90.80 AZ: 271.70

MD: 11024.00 INC: 88.20 AZ: 269.70

