



Cathedral Energy Services
1949 North Pyrite Road
Casper, Wyoming 82604

145244

5":100' - MD

9/18/2014 2:08:33 PM

Weld

Started: 07/26/2014 08:00 PM

Field:

Well:

Rig:

Ended: 07/31/2014 07:00 PM

Gamma Ray:
Section Plane: 0.00
Magnetic North: 8.40
Gamma Attenuation Factor: 3.642/2.961
Gamma Averaging: 7%

Location

Latitude:

Longitude:

Elev. GL: 5018

Elev. DF:

Elev. KB: 5048

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

Hole Data

Size	From	To
8-3/4	1142	7853
6-1/8	7853	12030

Casing Data

Size	From	To
9-5/8	0	1132

Bit Sizes

Size	From	To
8-3/4	1142	7853
6-1/8	7853	12030

Mud Data

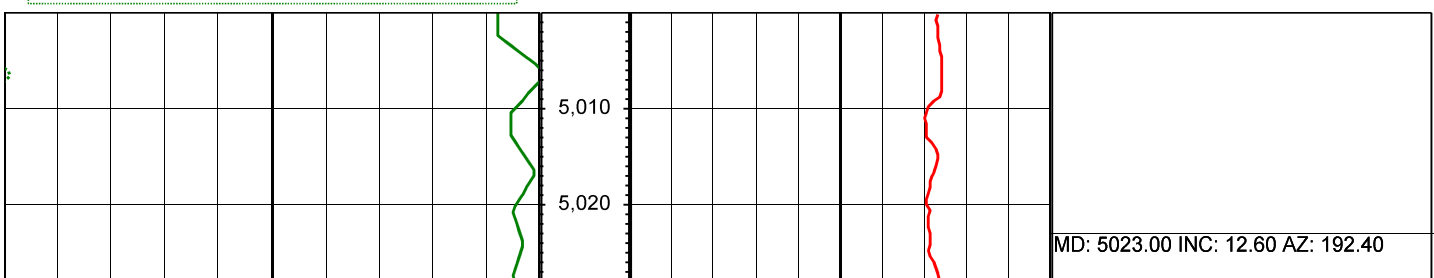
Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
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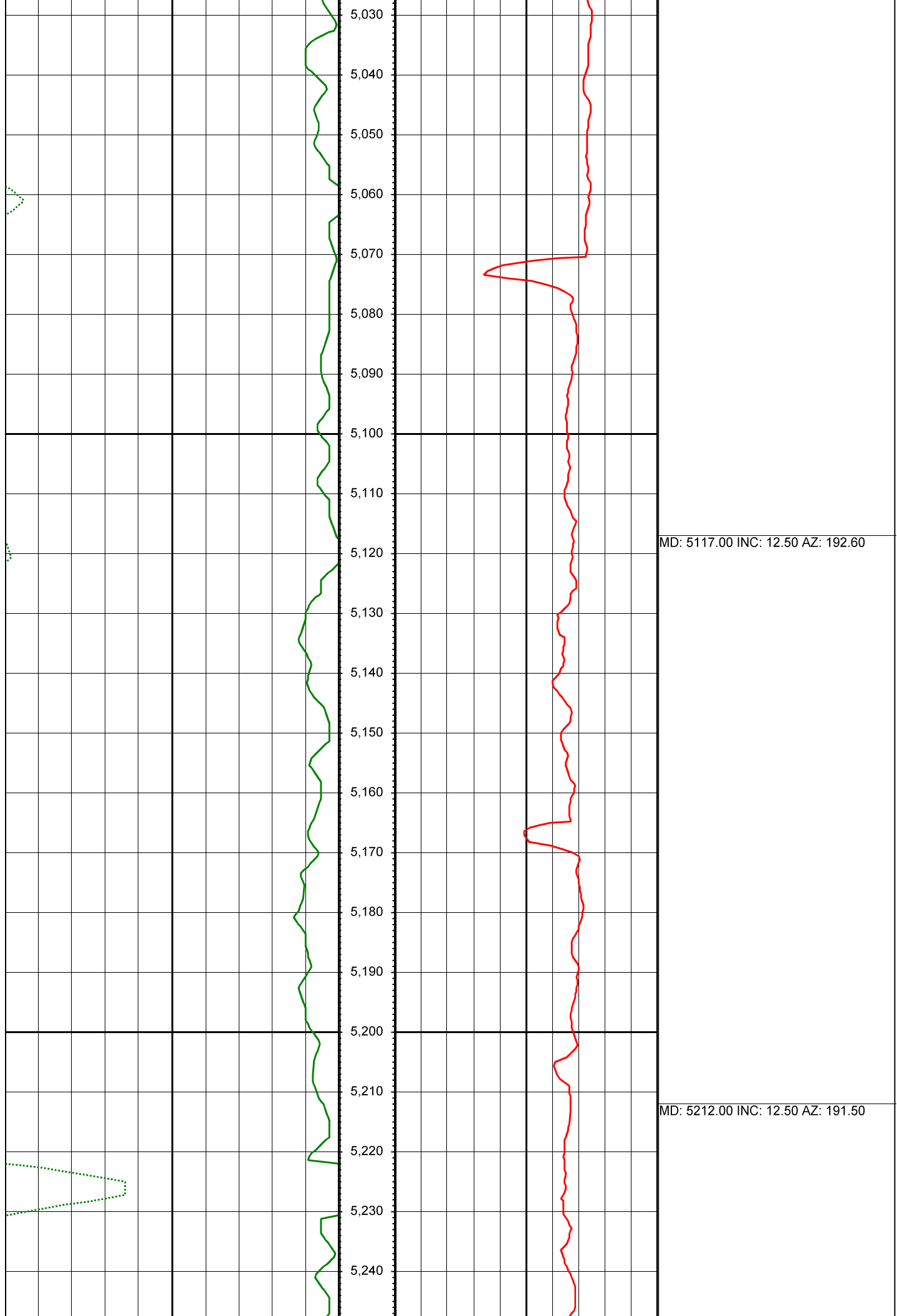
Tool Run Data

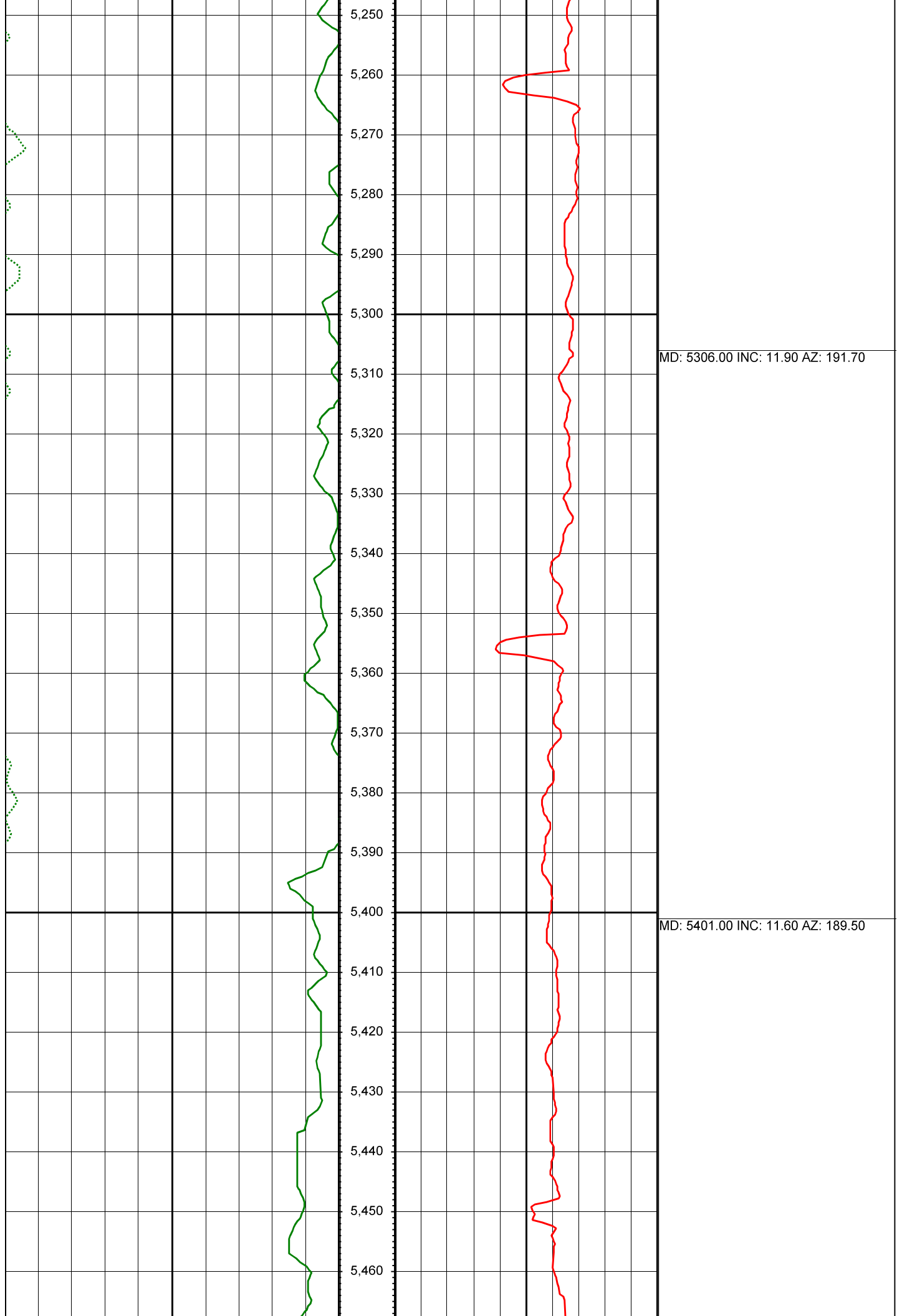
Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
5X-08	37.93	0	7/25/2014 1:30:02 AM	1142	7/28/2014 3:30:02 PM	7853
5X-08	39.51	0	7/30/2014 2:30:15 AM	7853	8/1/2014 1:30:15 PM	12030

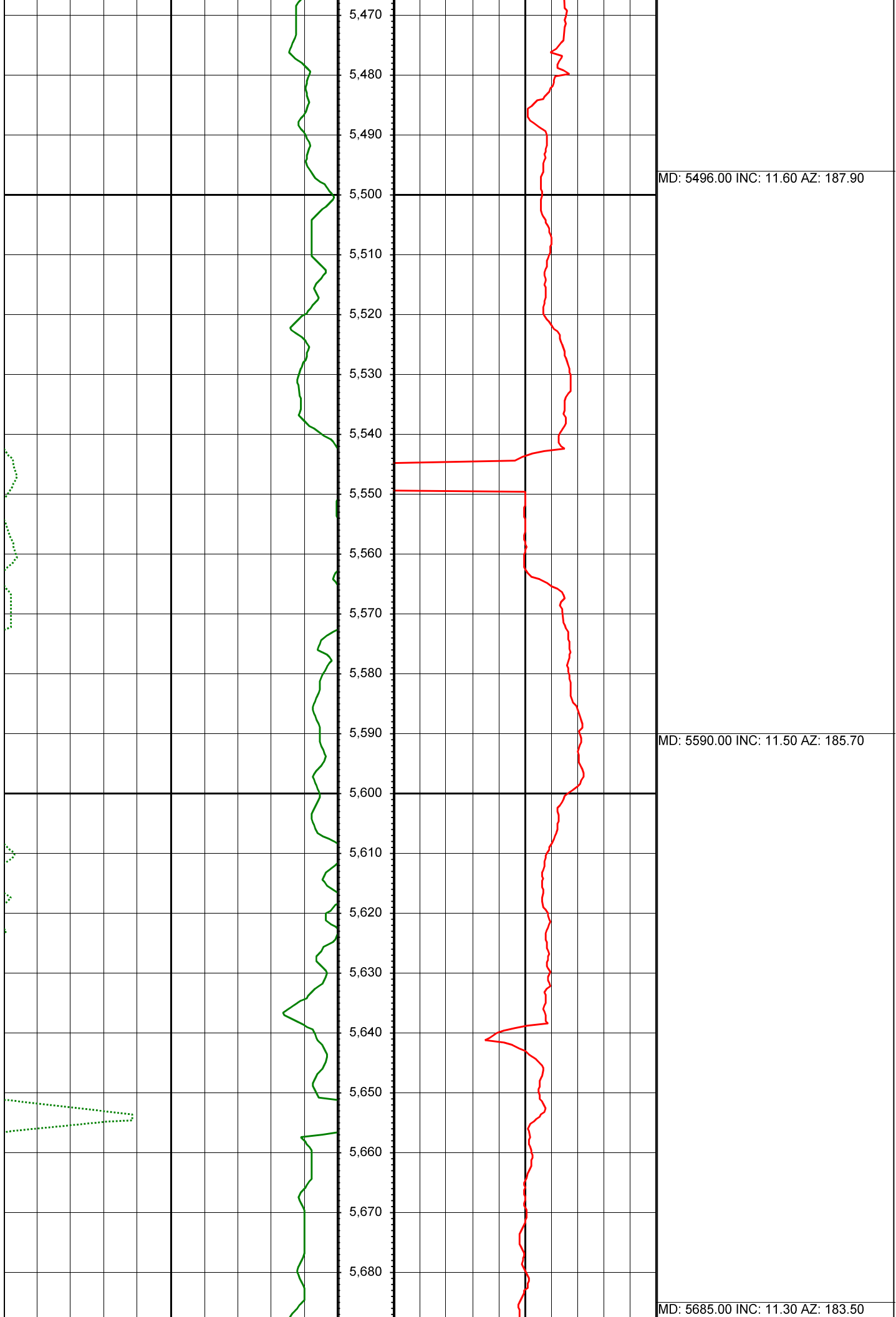
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost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

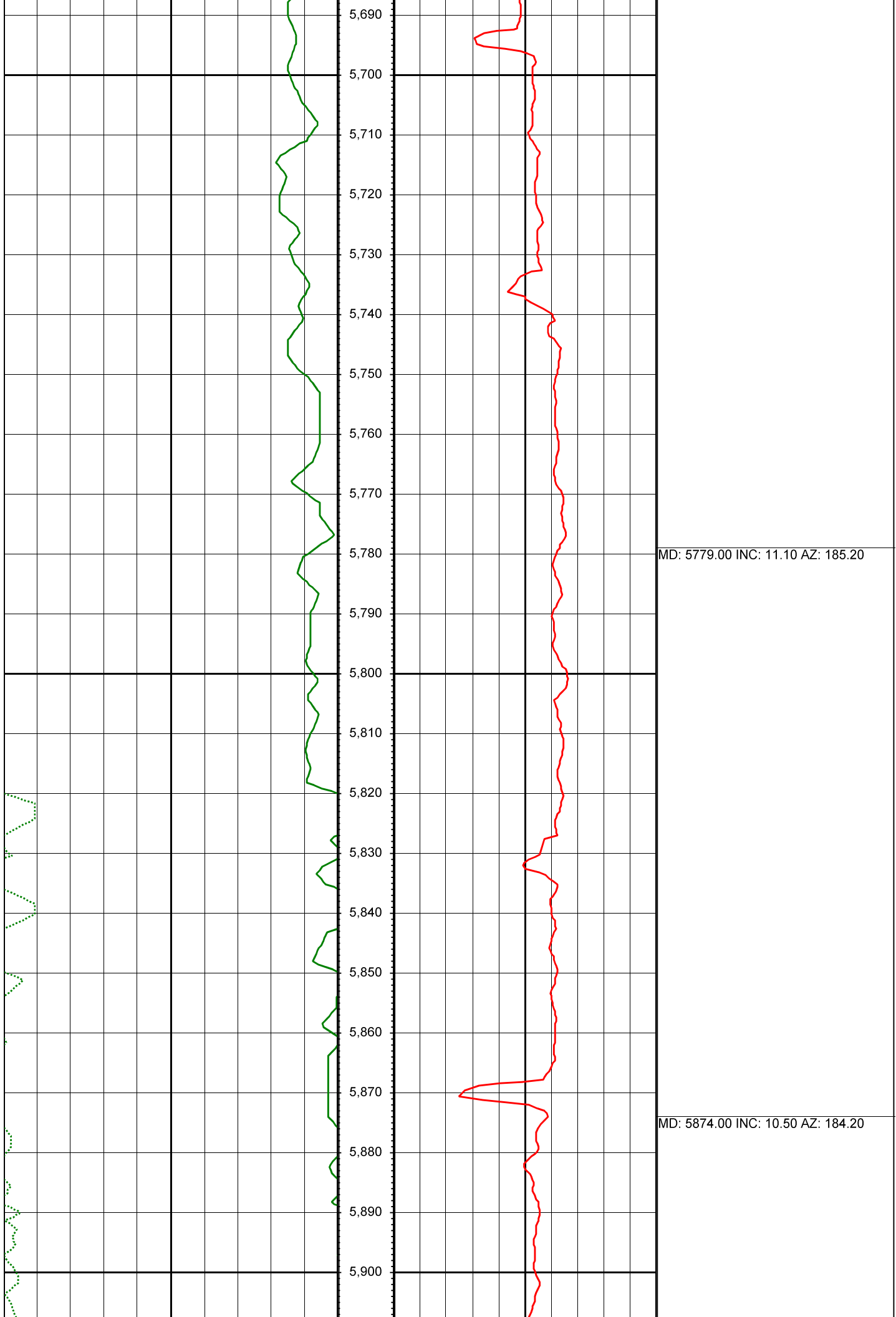
0.00 Gamma Ray (API) 150.00 MD 0.00 ROP (FT/HR) 600.00 Surveys (MD/INC/AZ)
150.00 2 300.00 FT

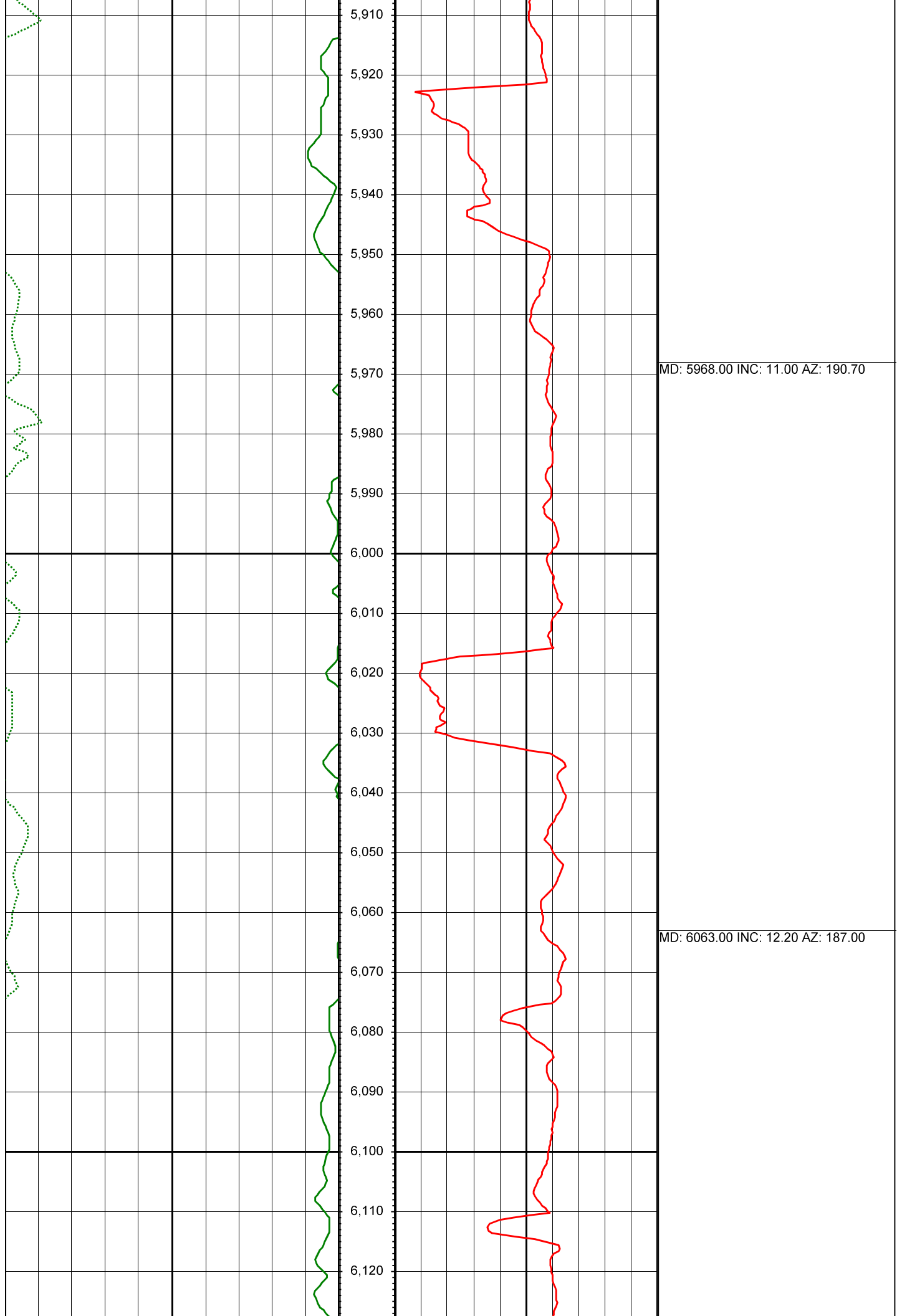


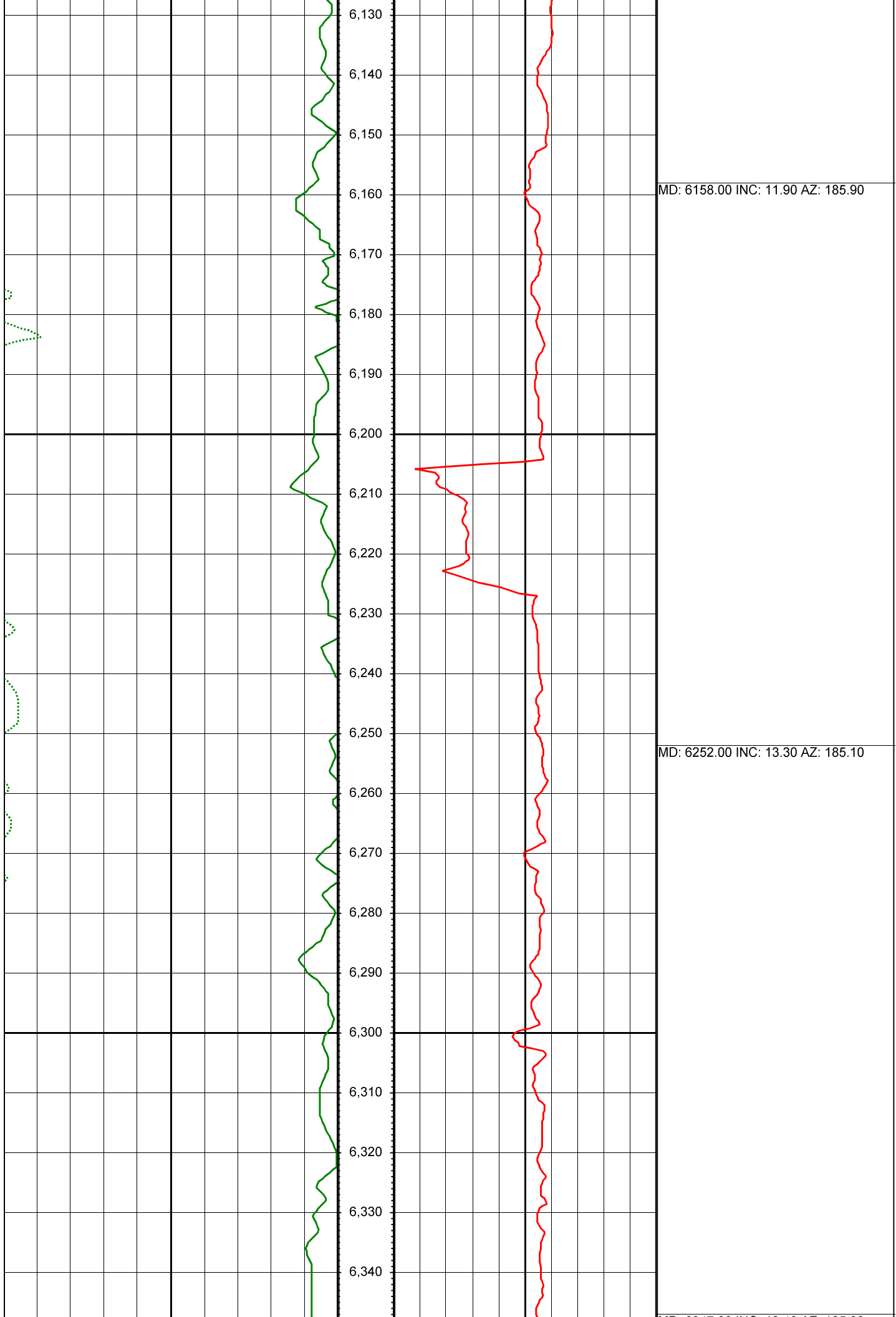


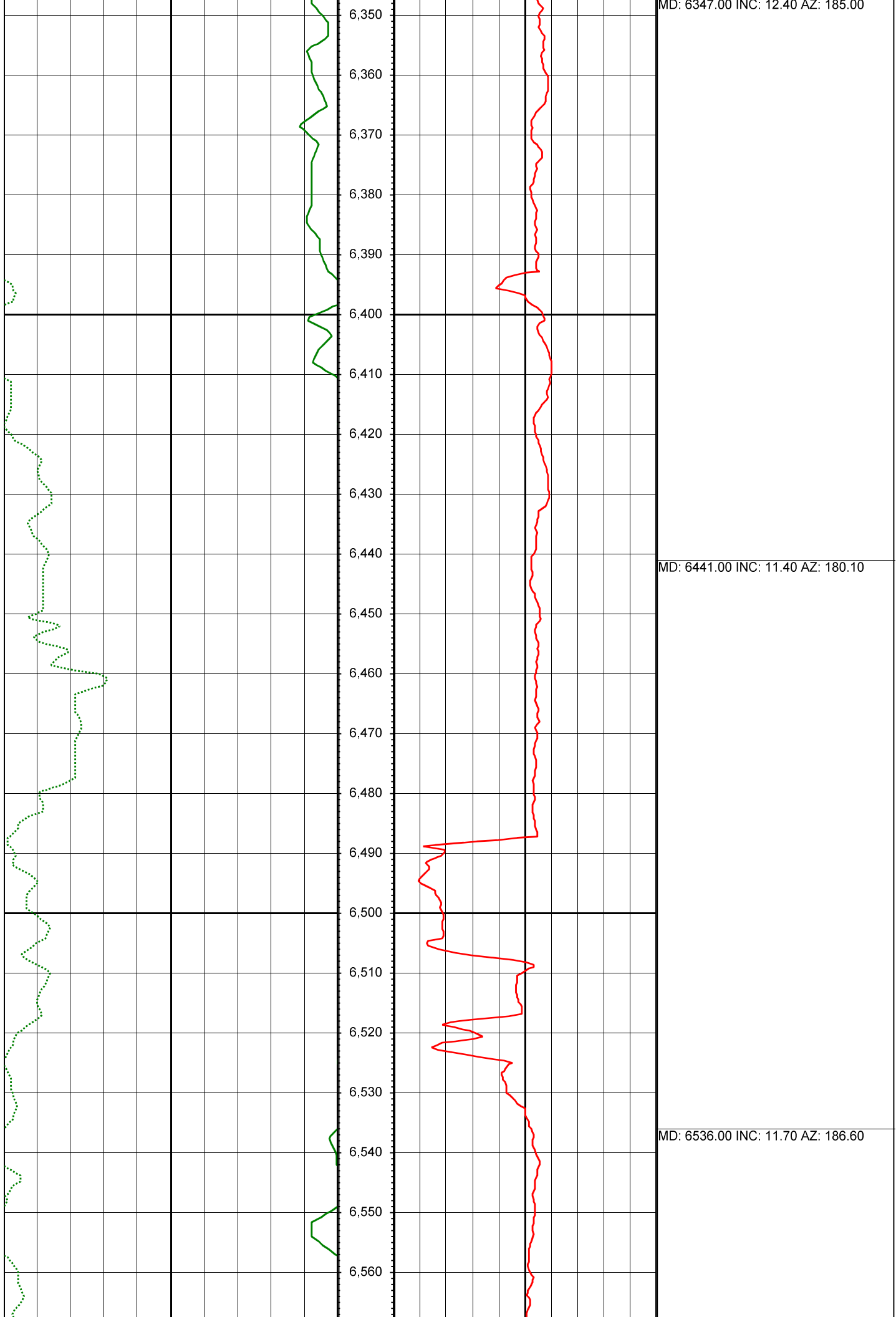


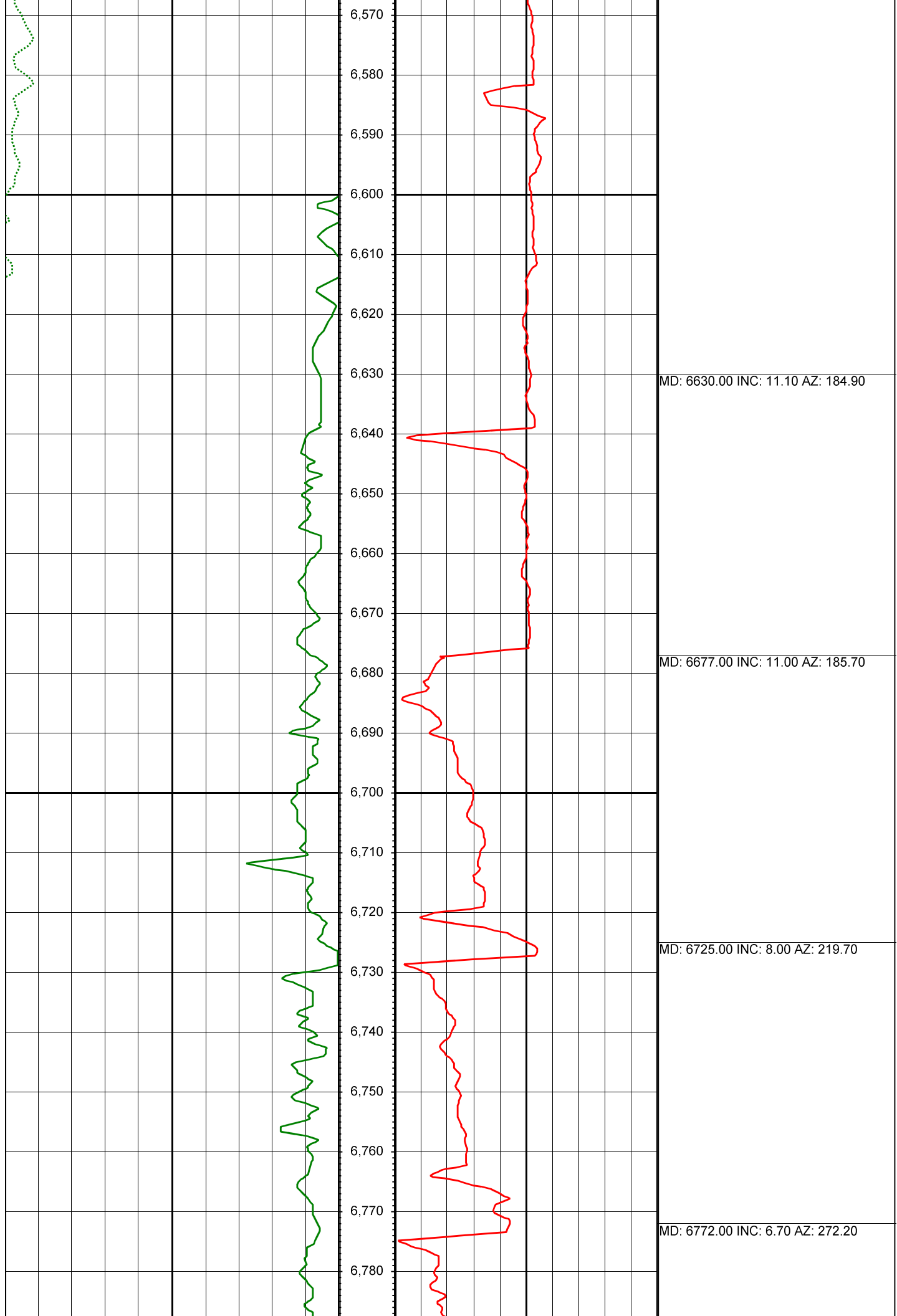


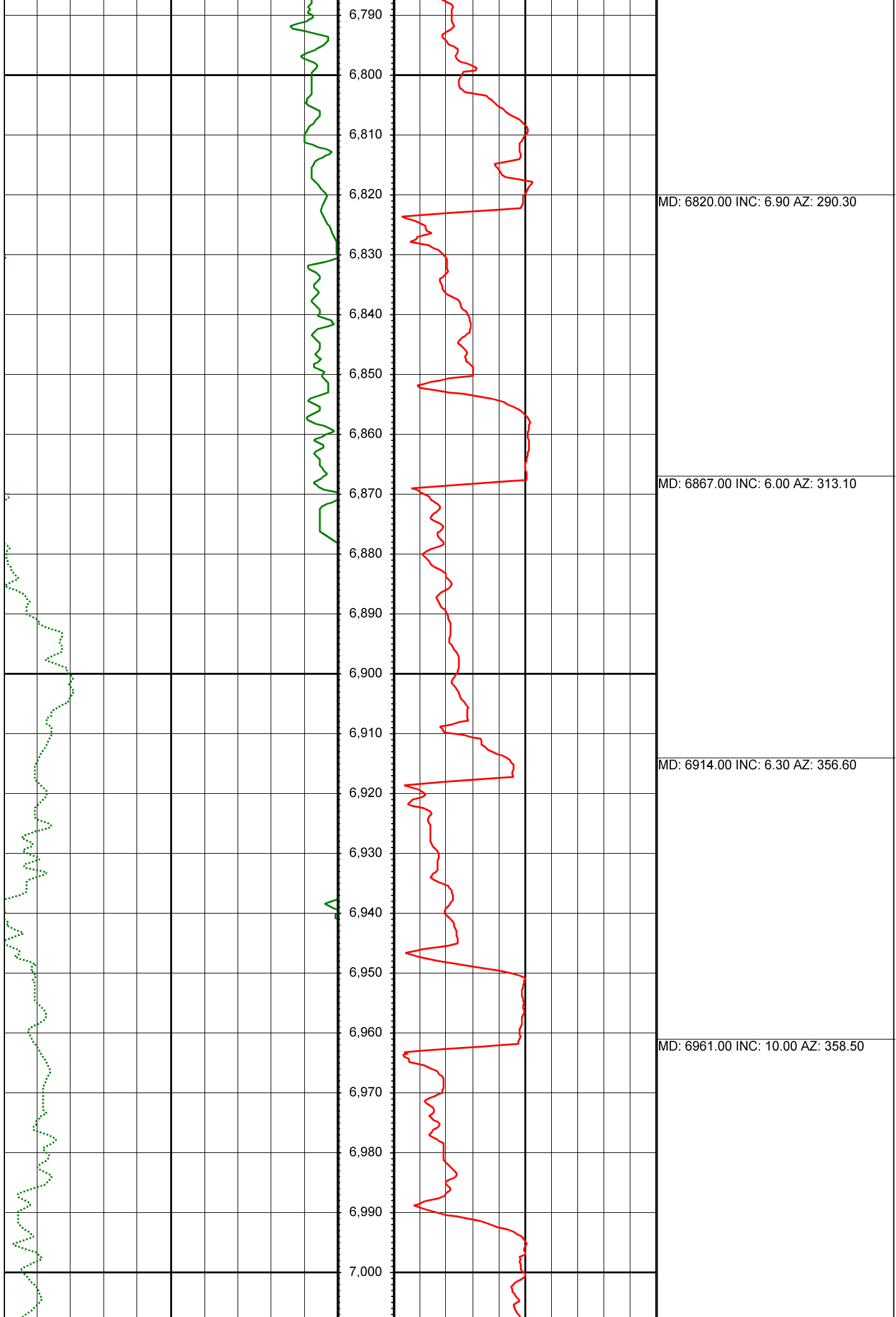


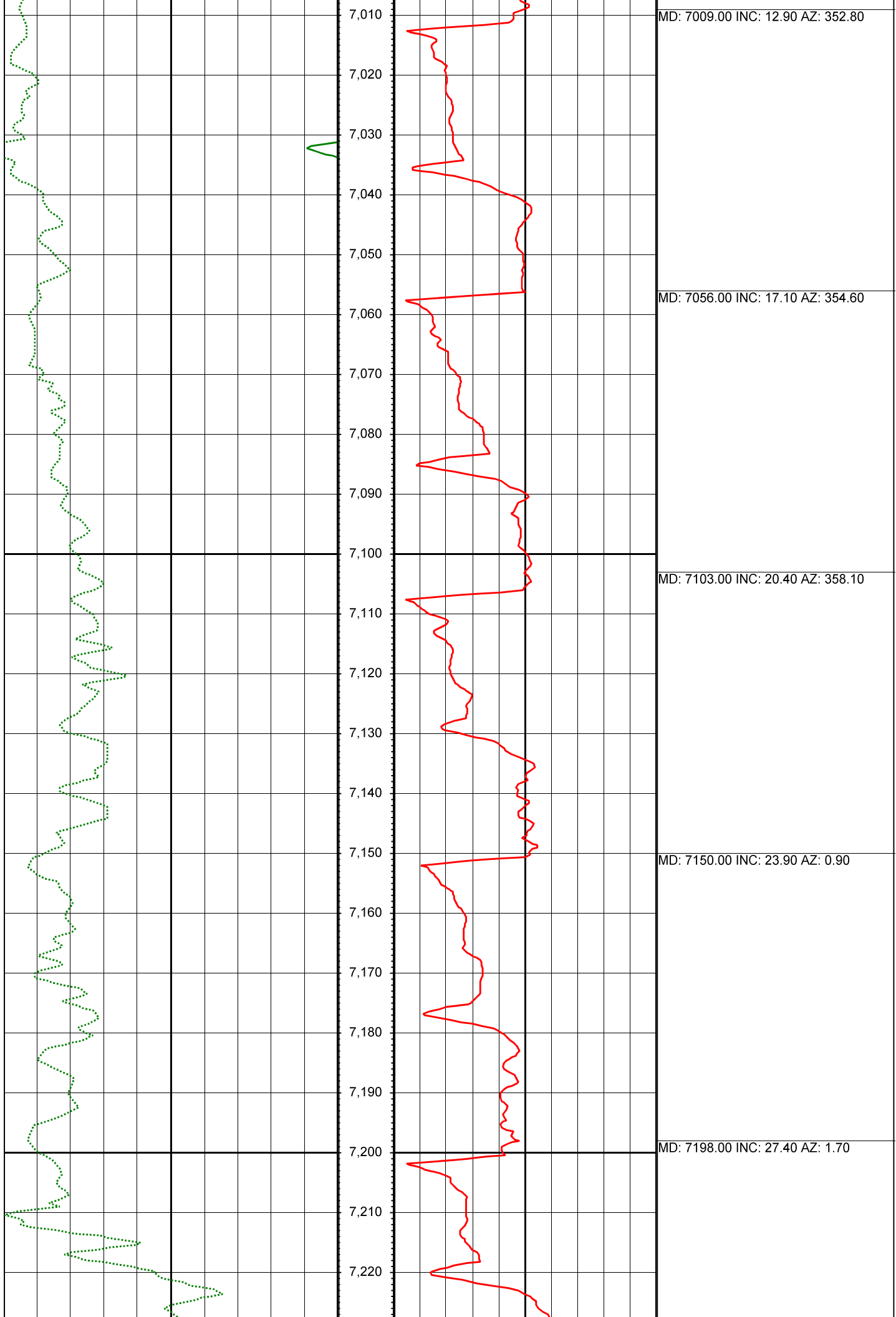


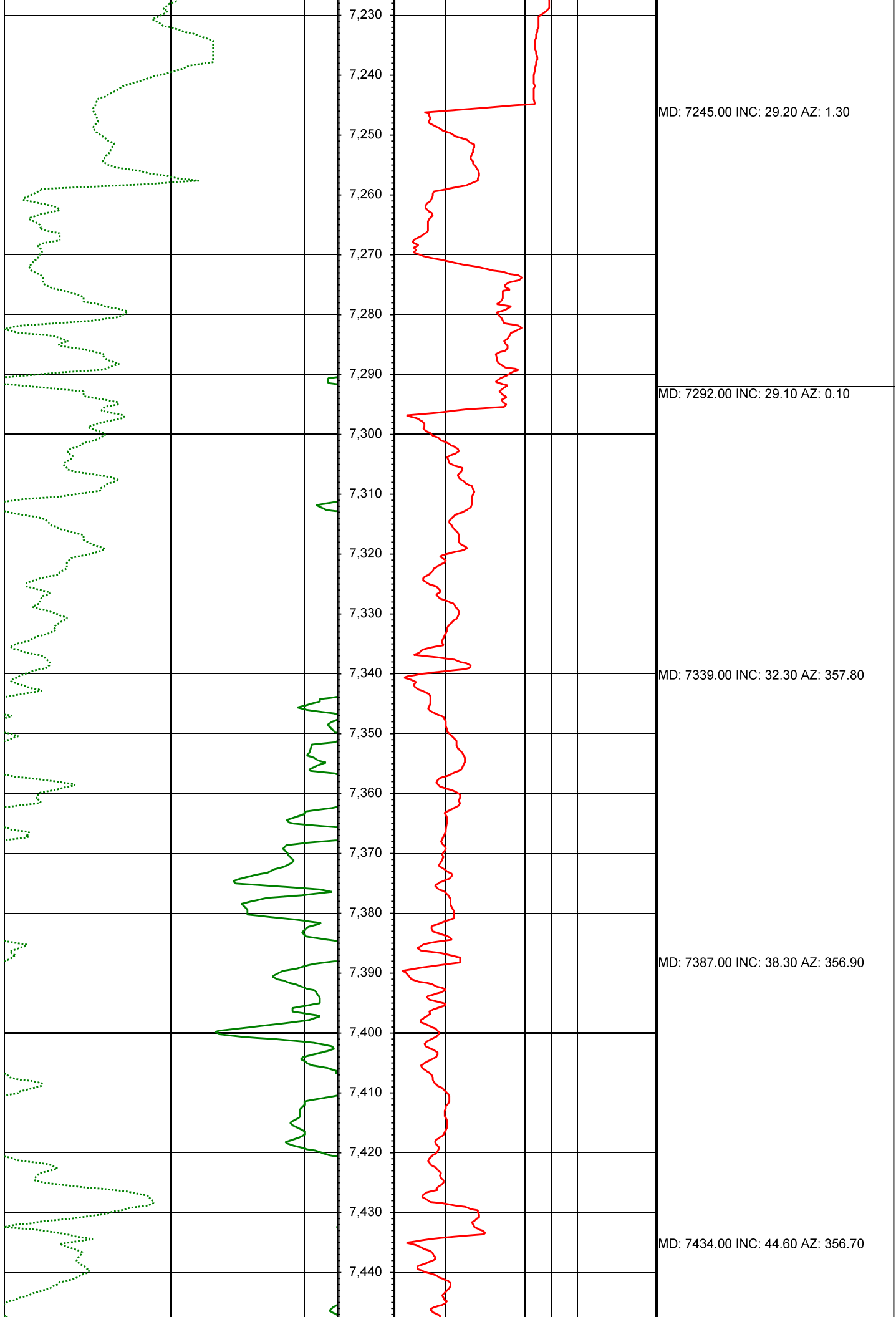


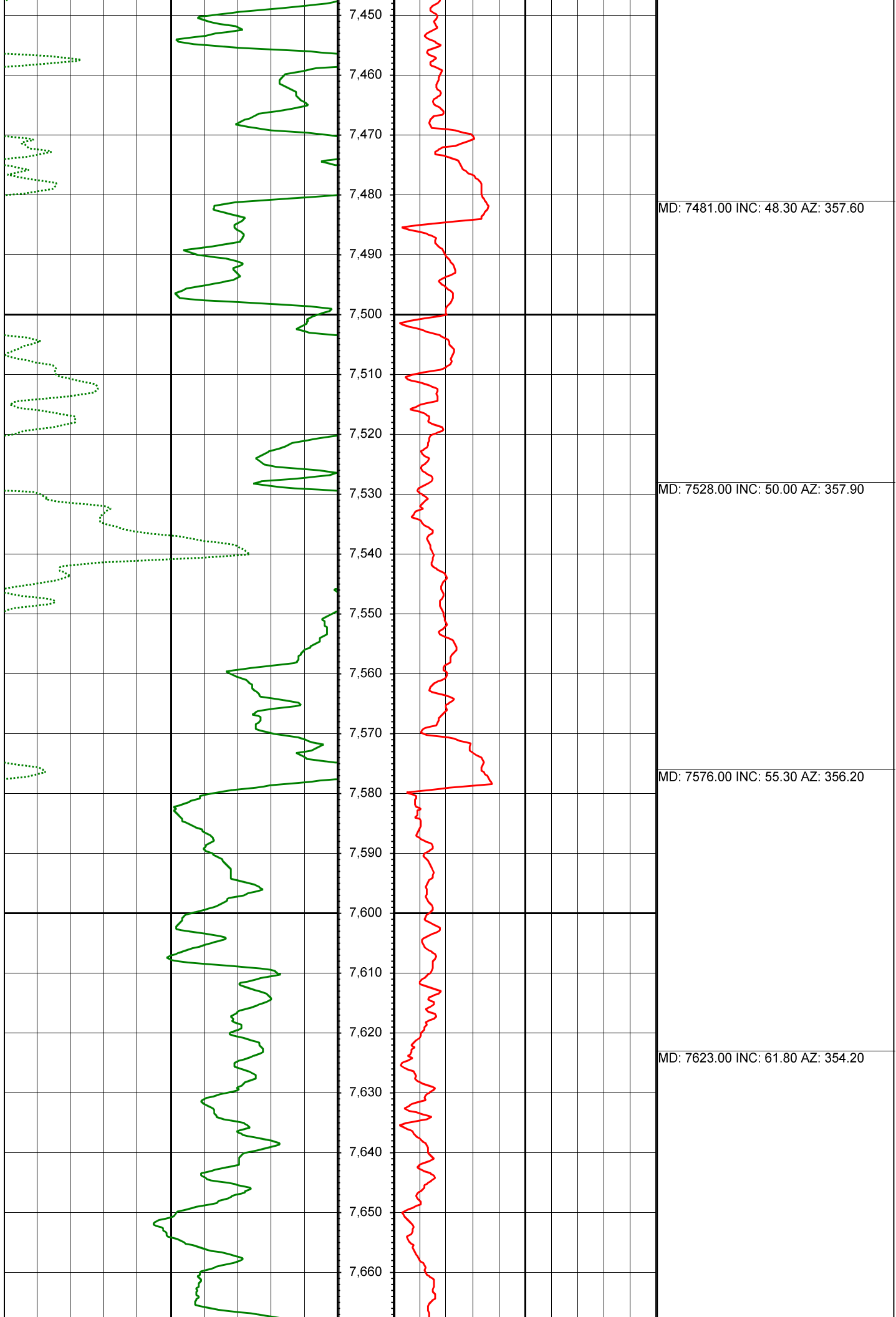


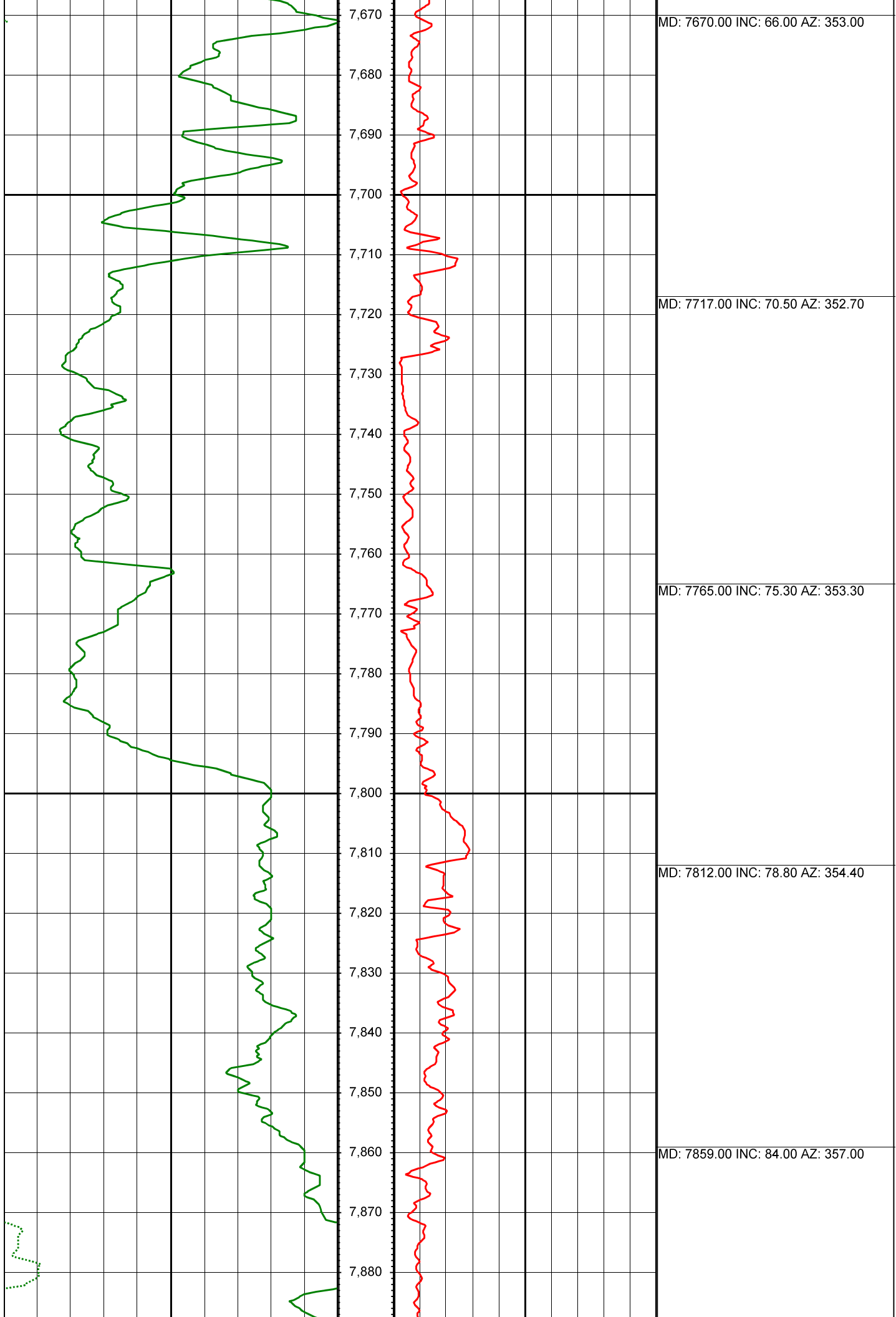


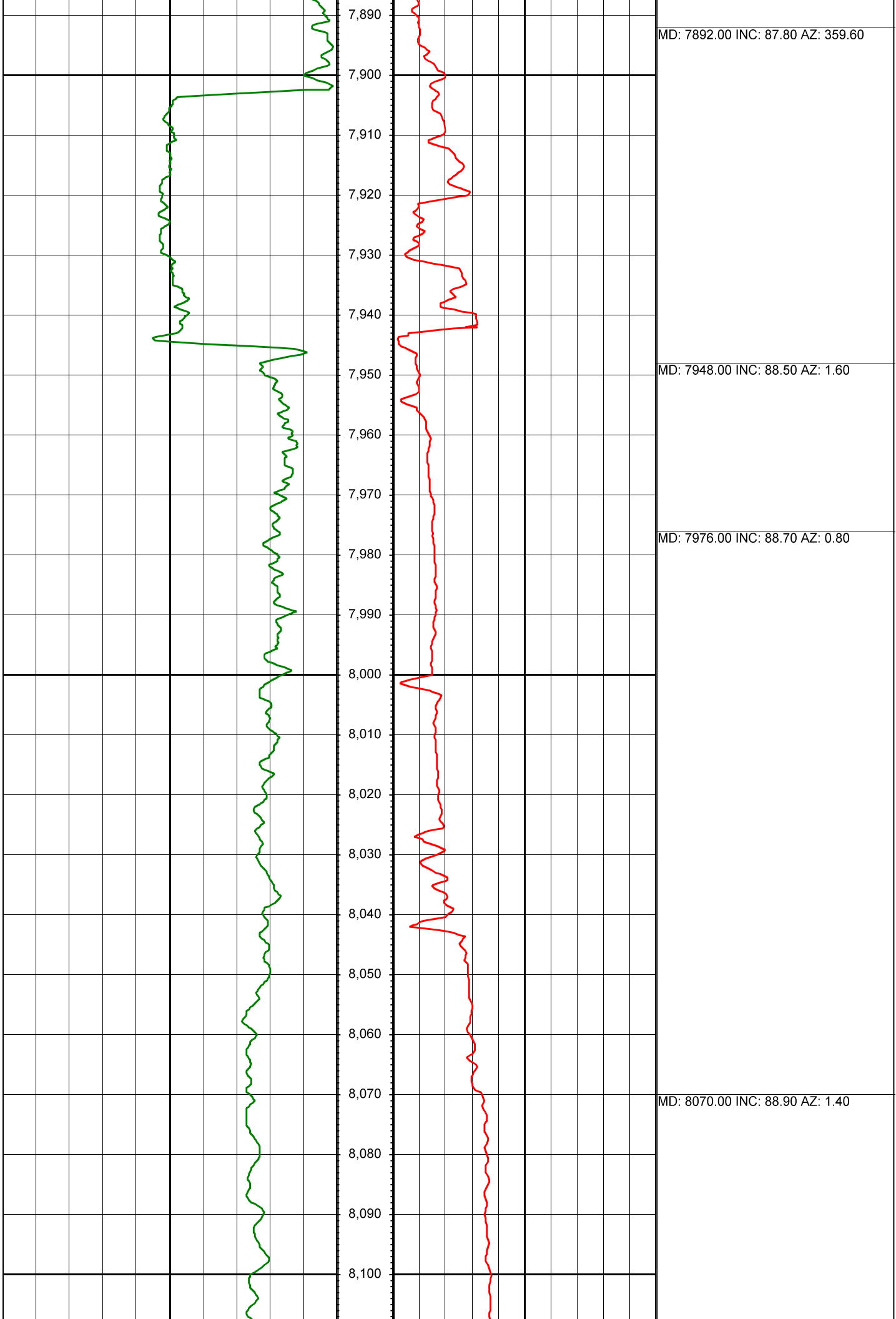


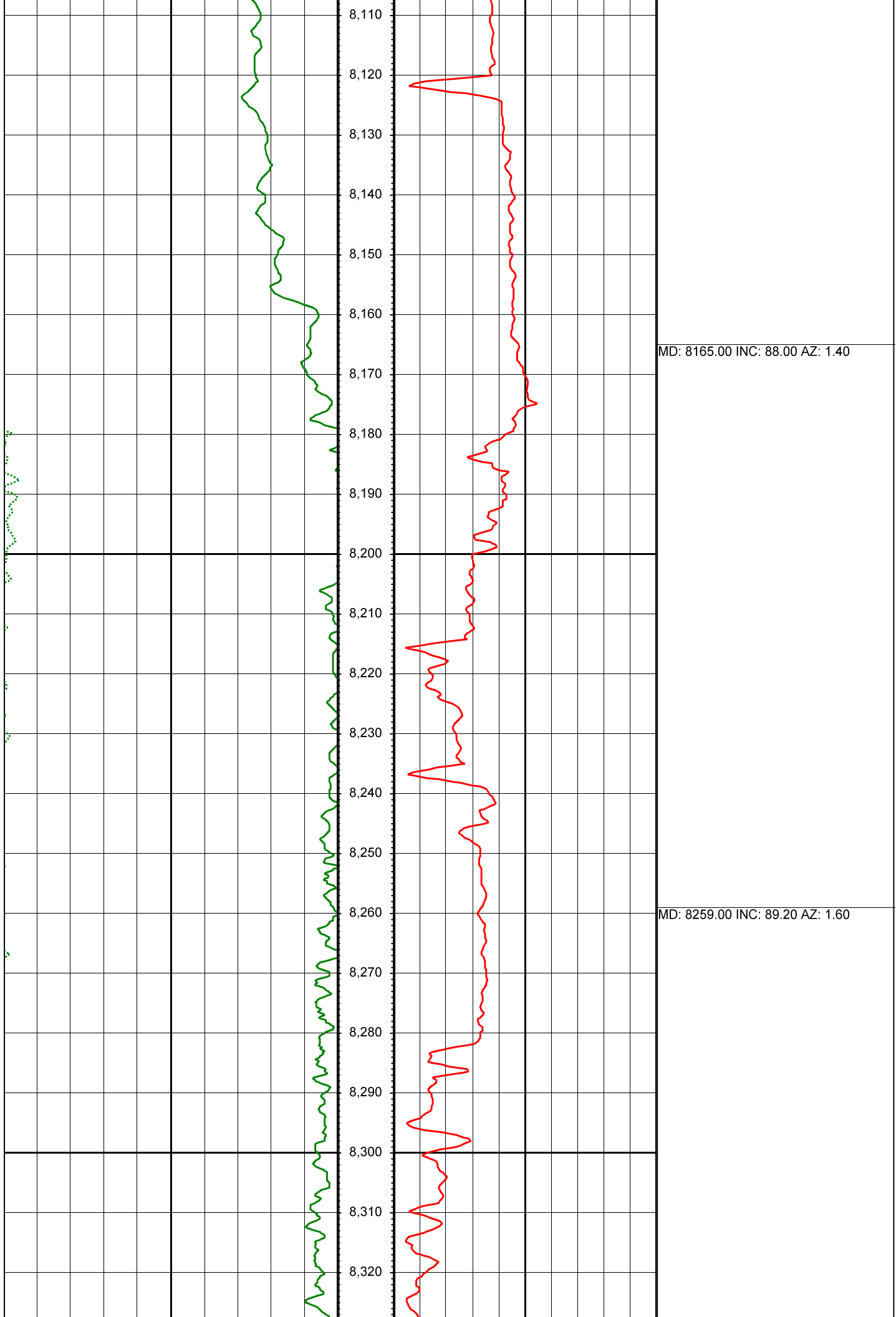


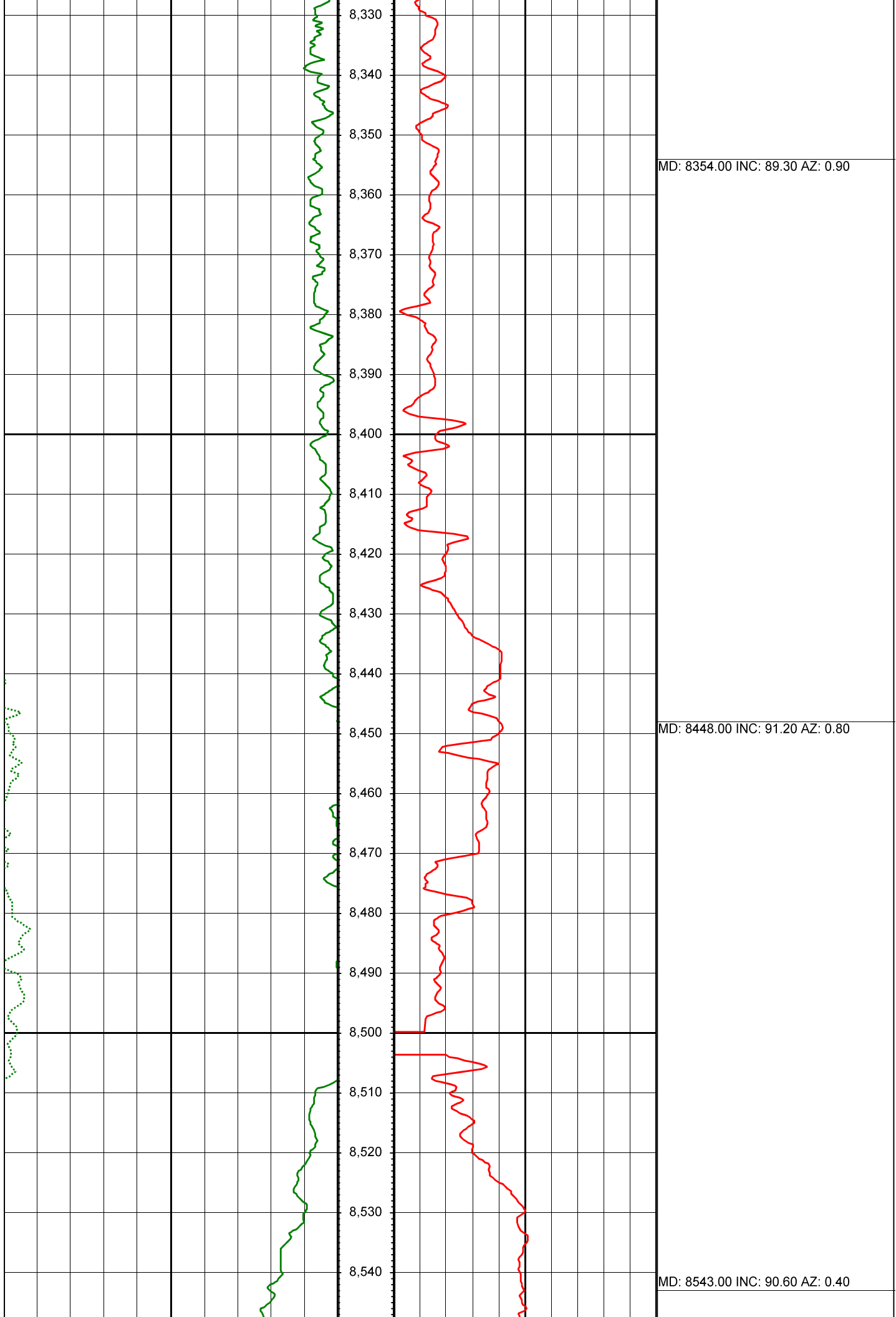


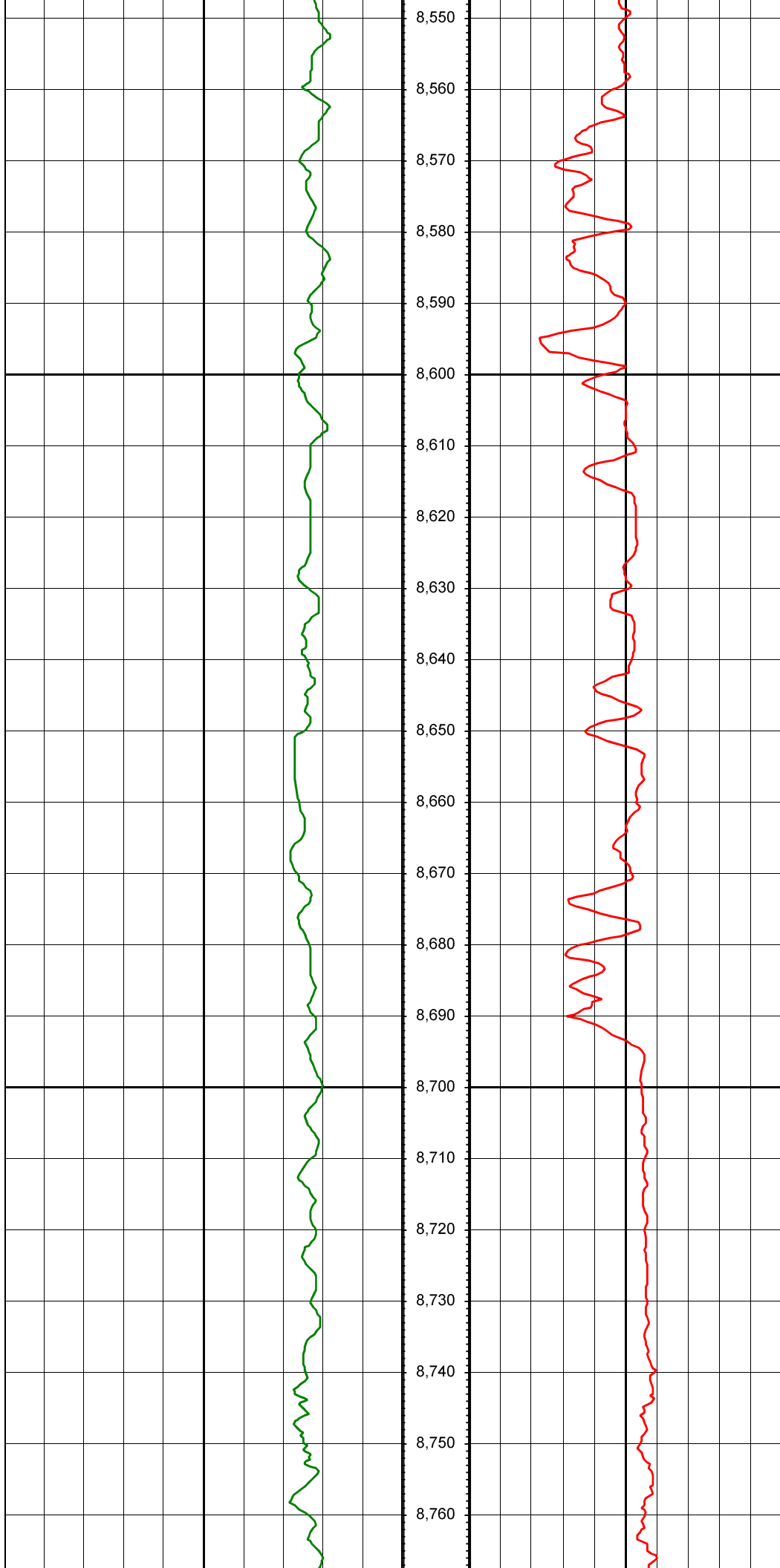






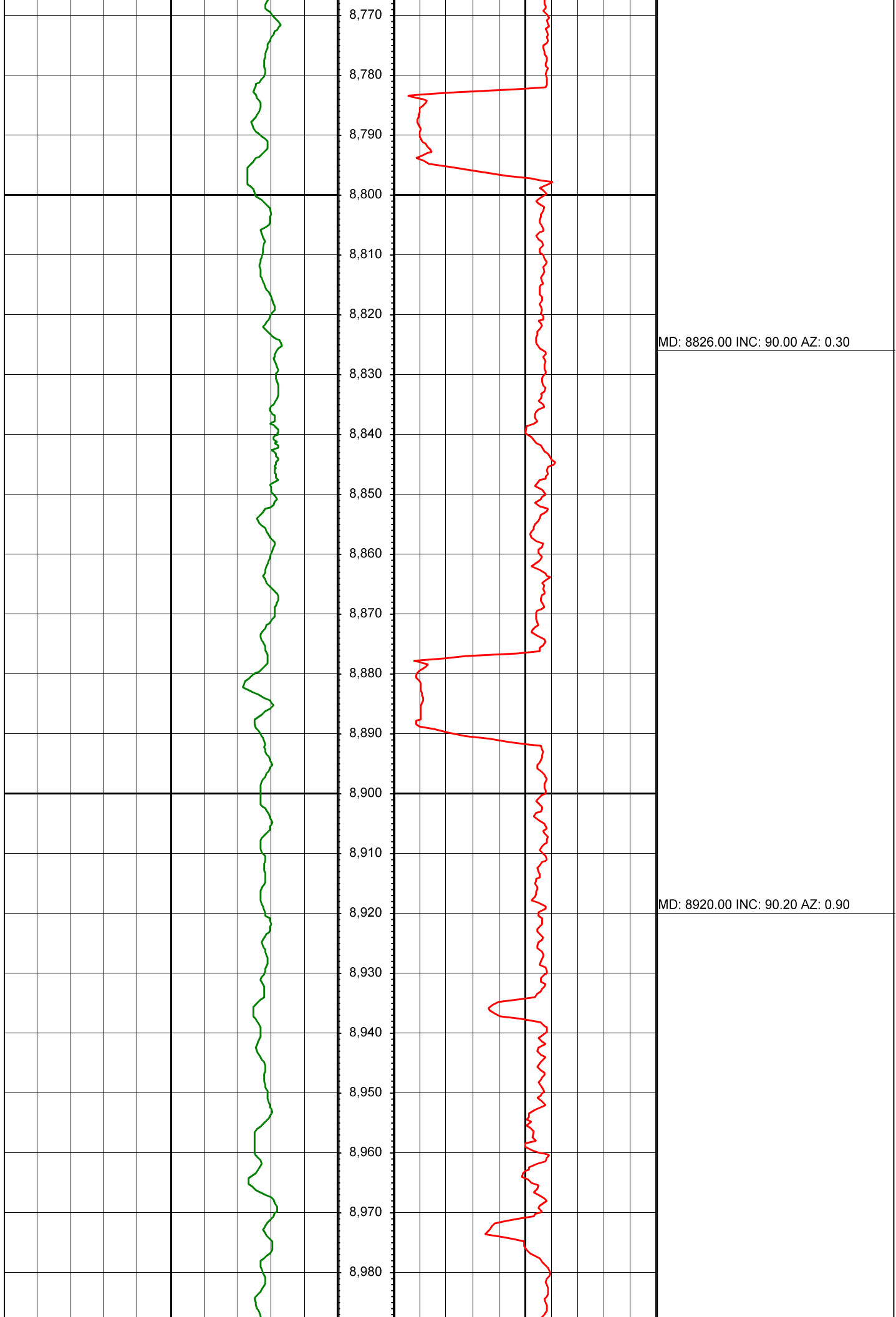


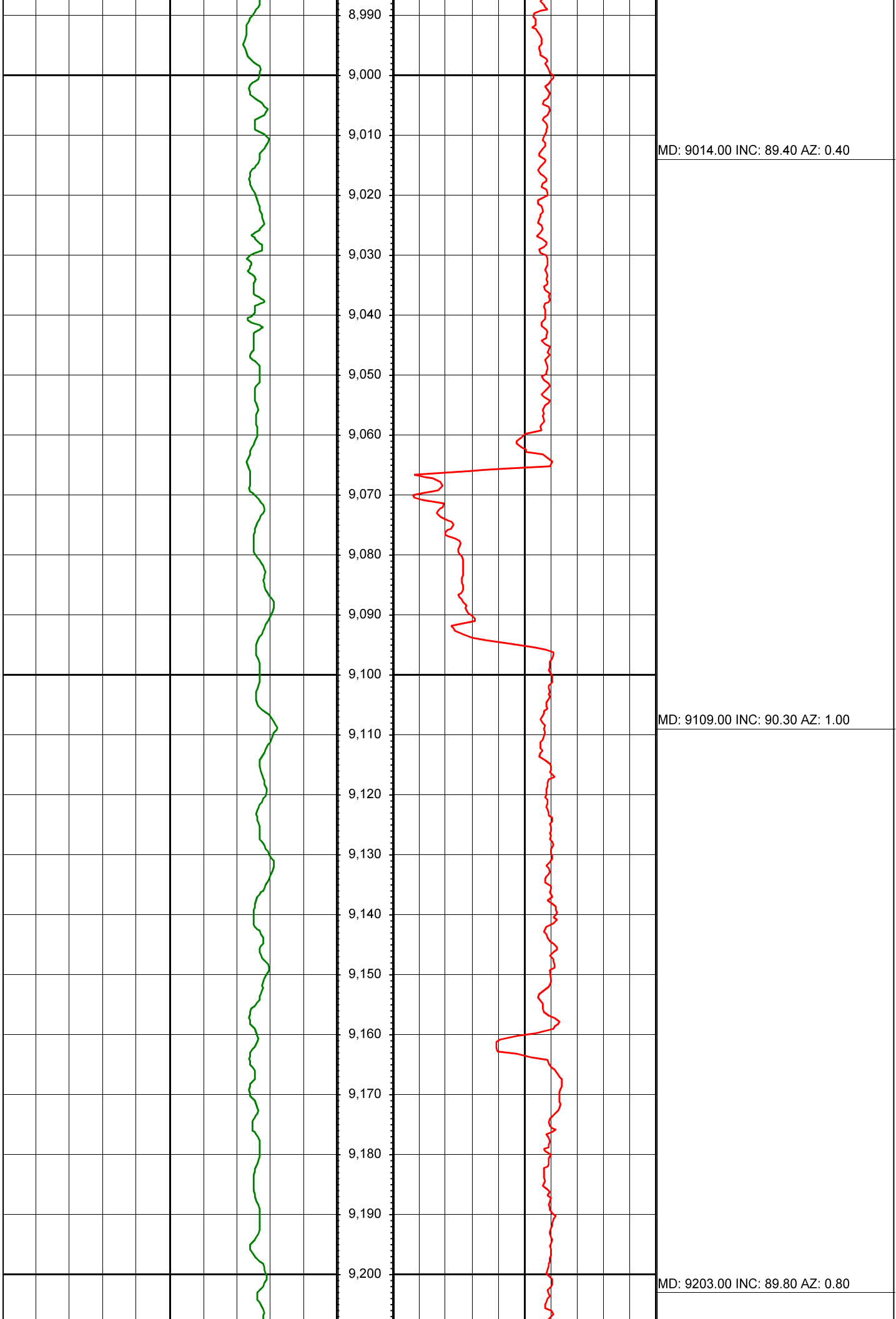


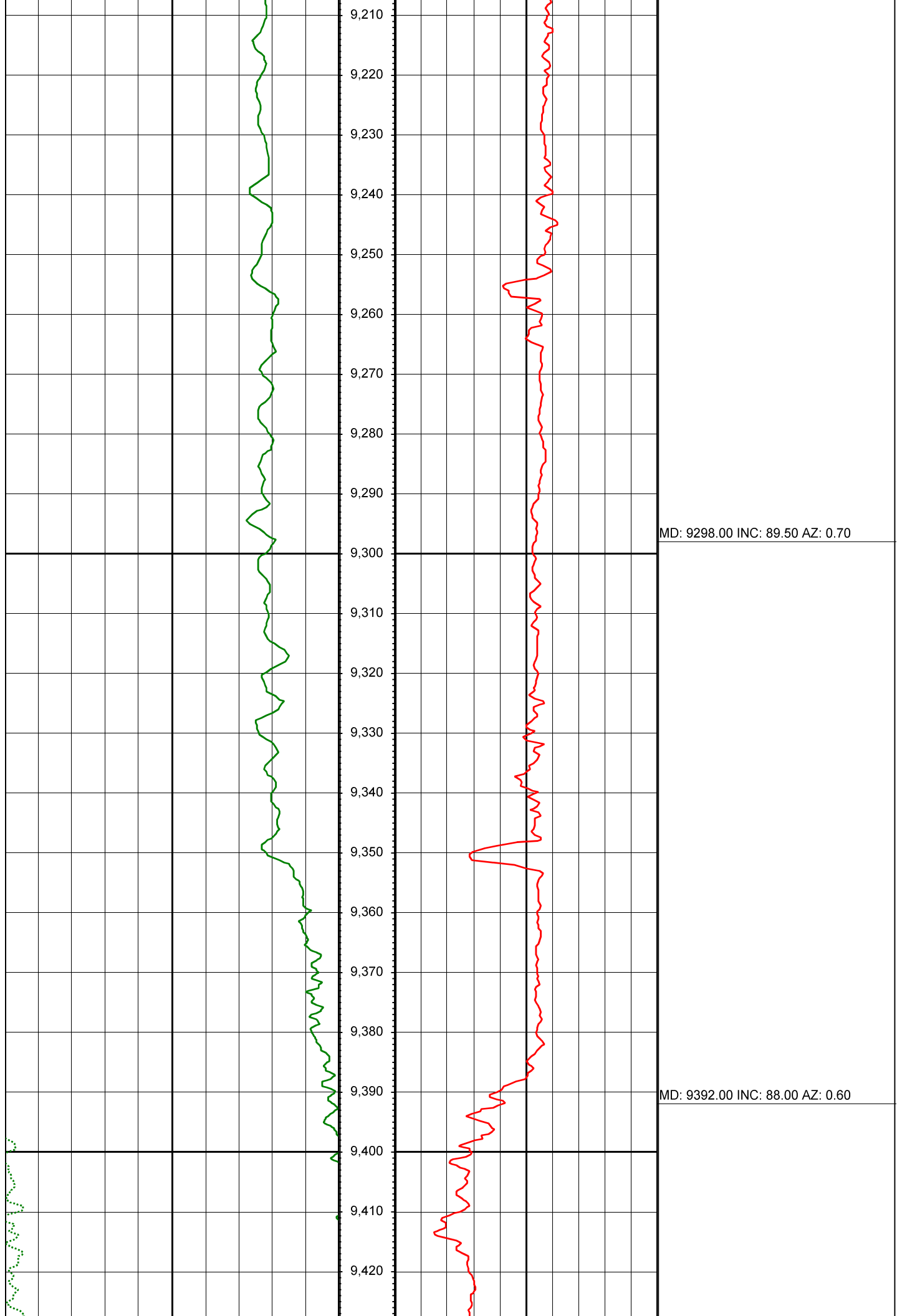


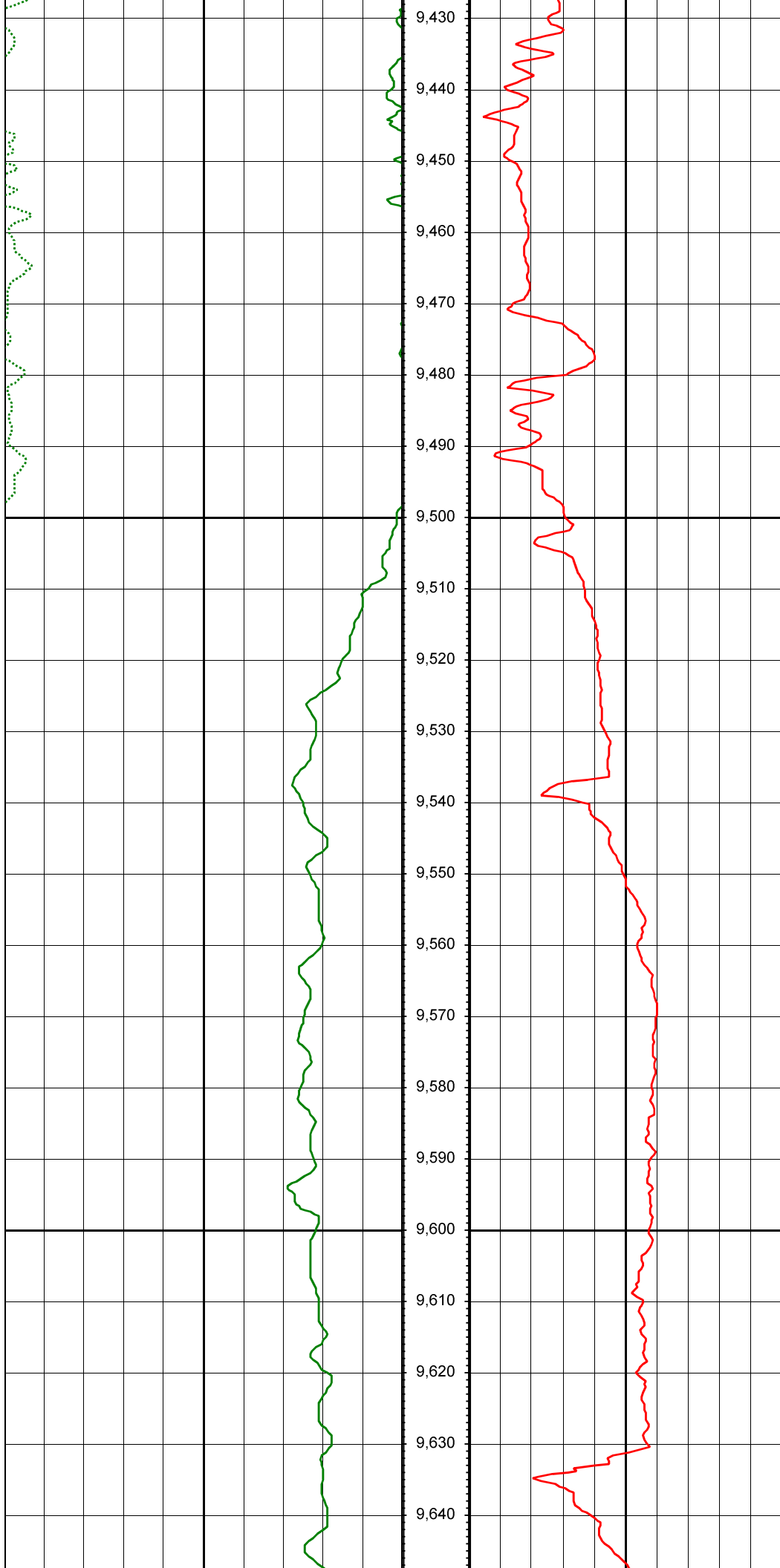
MD: 8637.00 INC: 90.40 AZ: 360.00

MD: 8731.00 INC: 89.90 AZ: 359.90



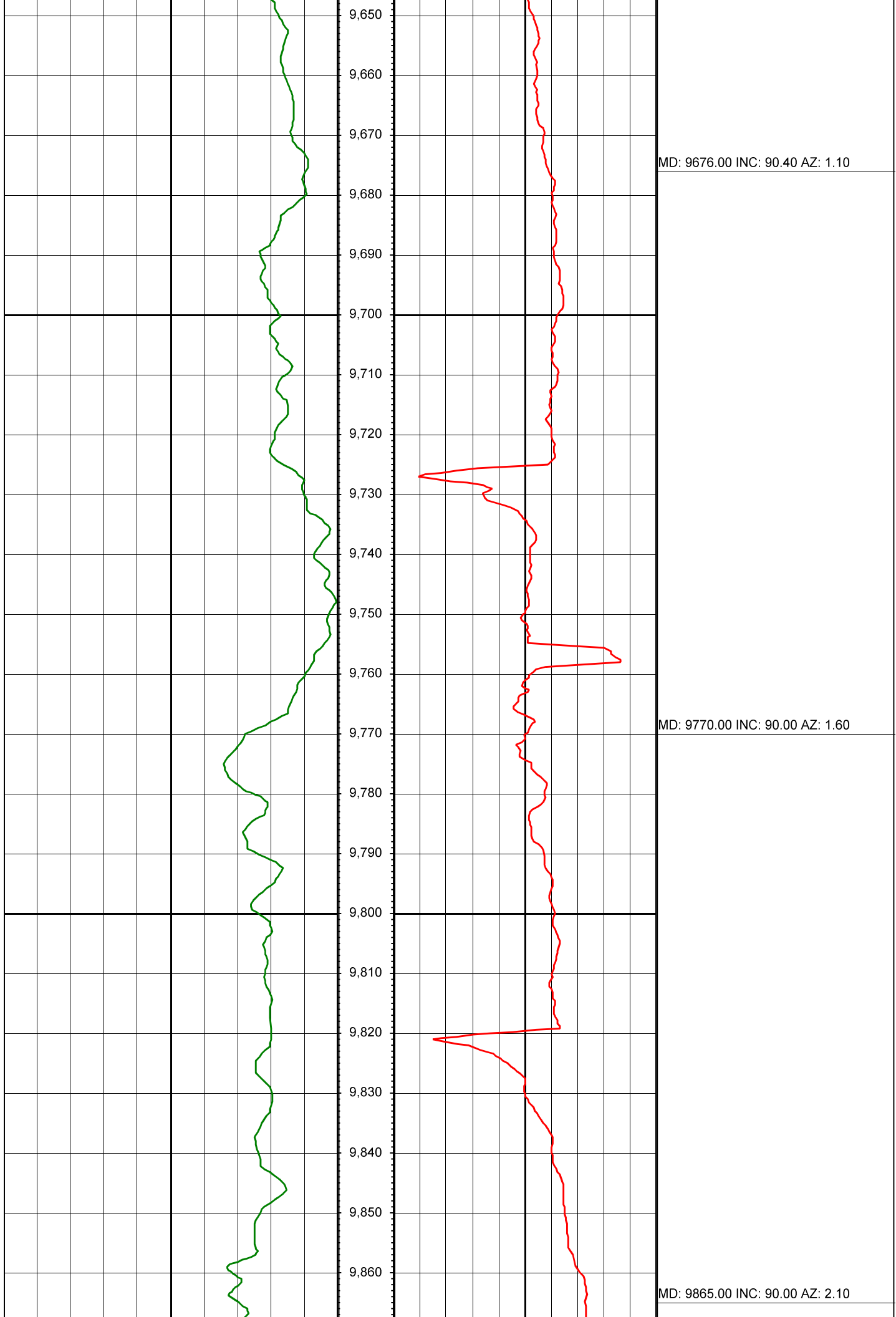


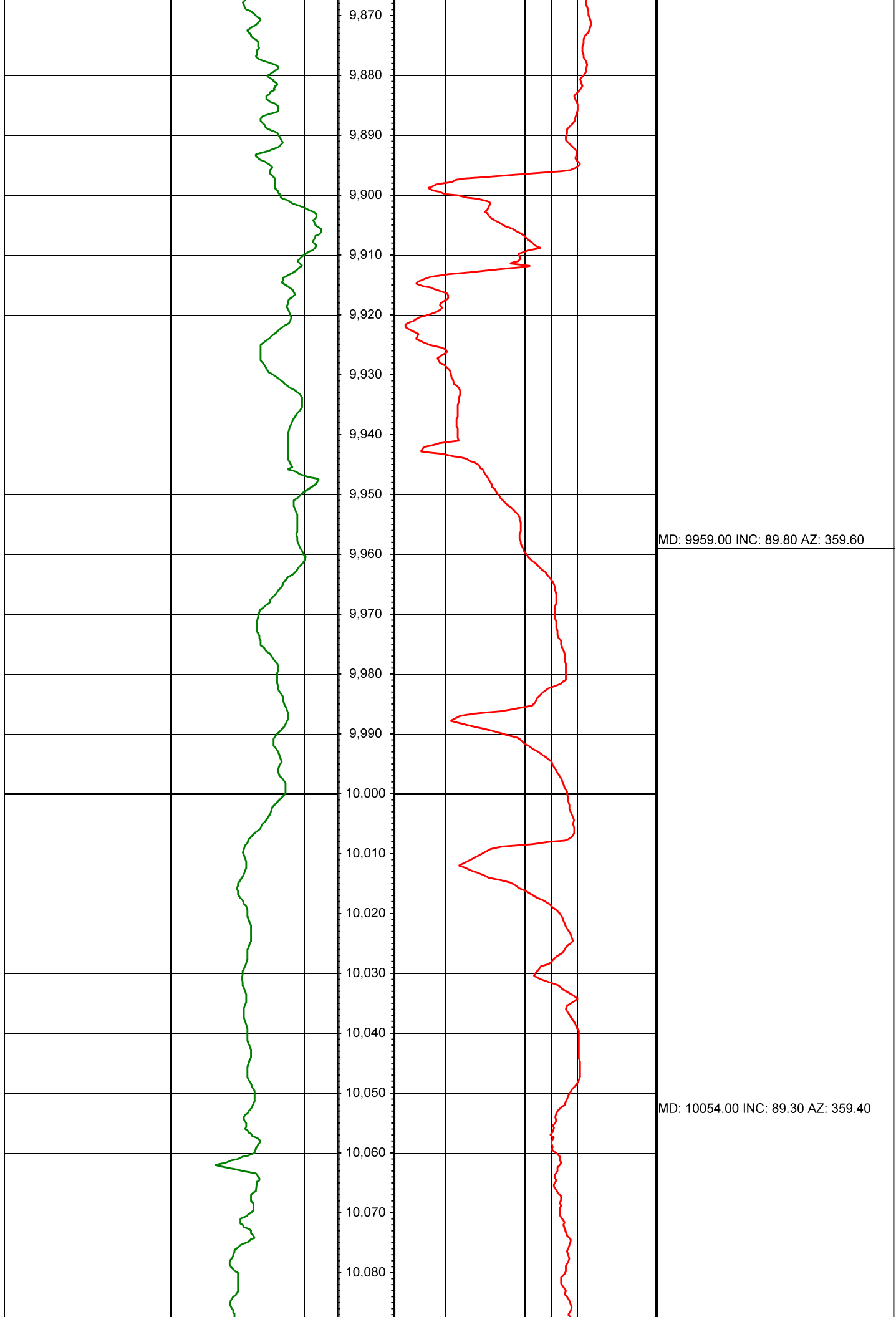


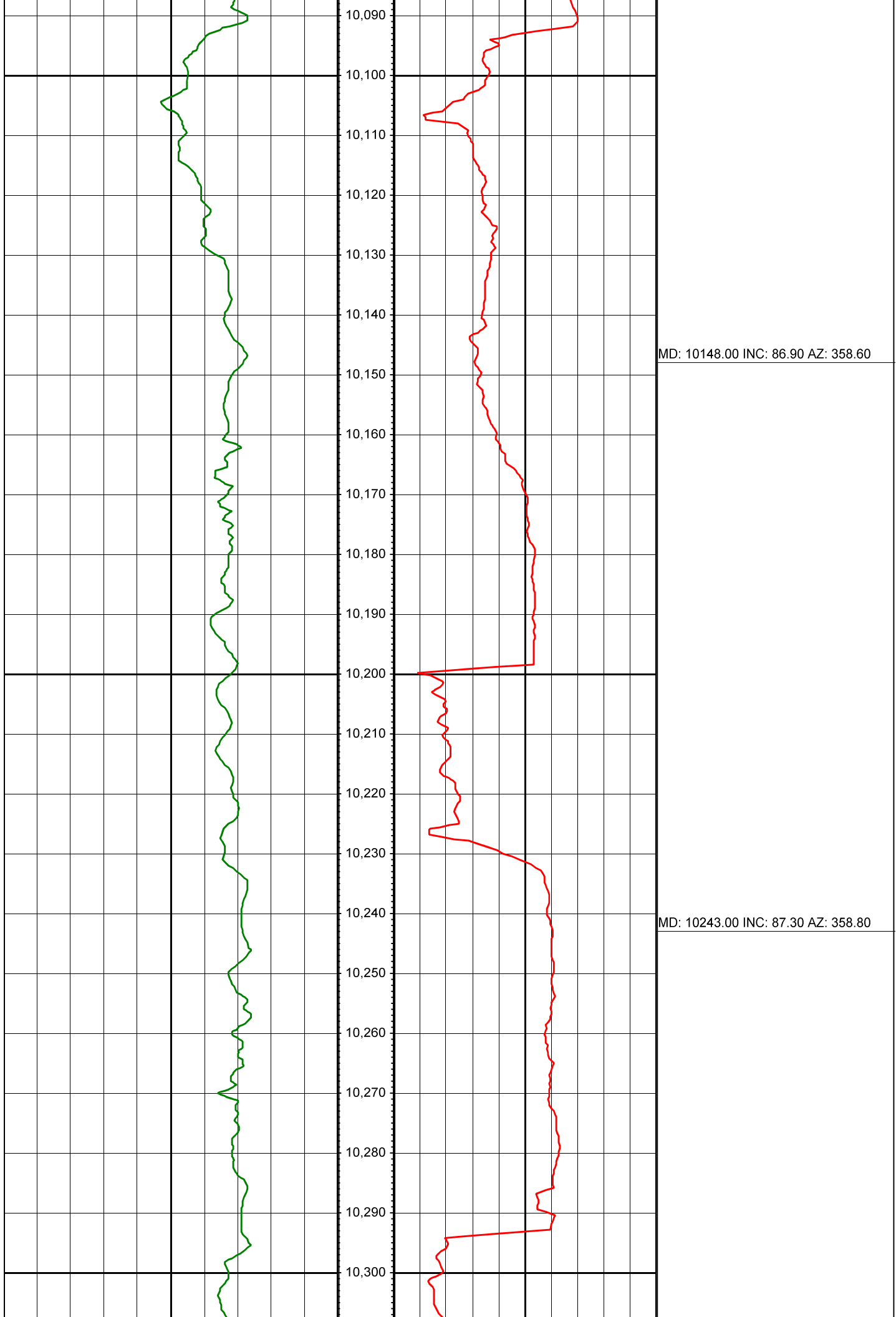


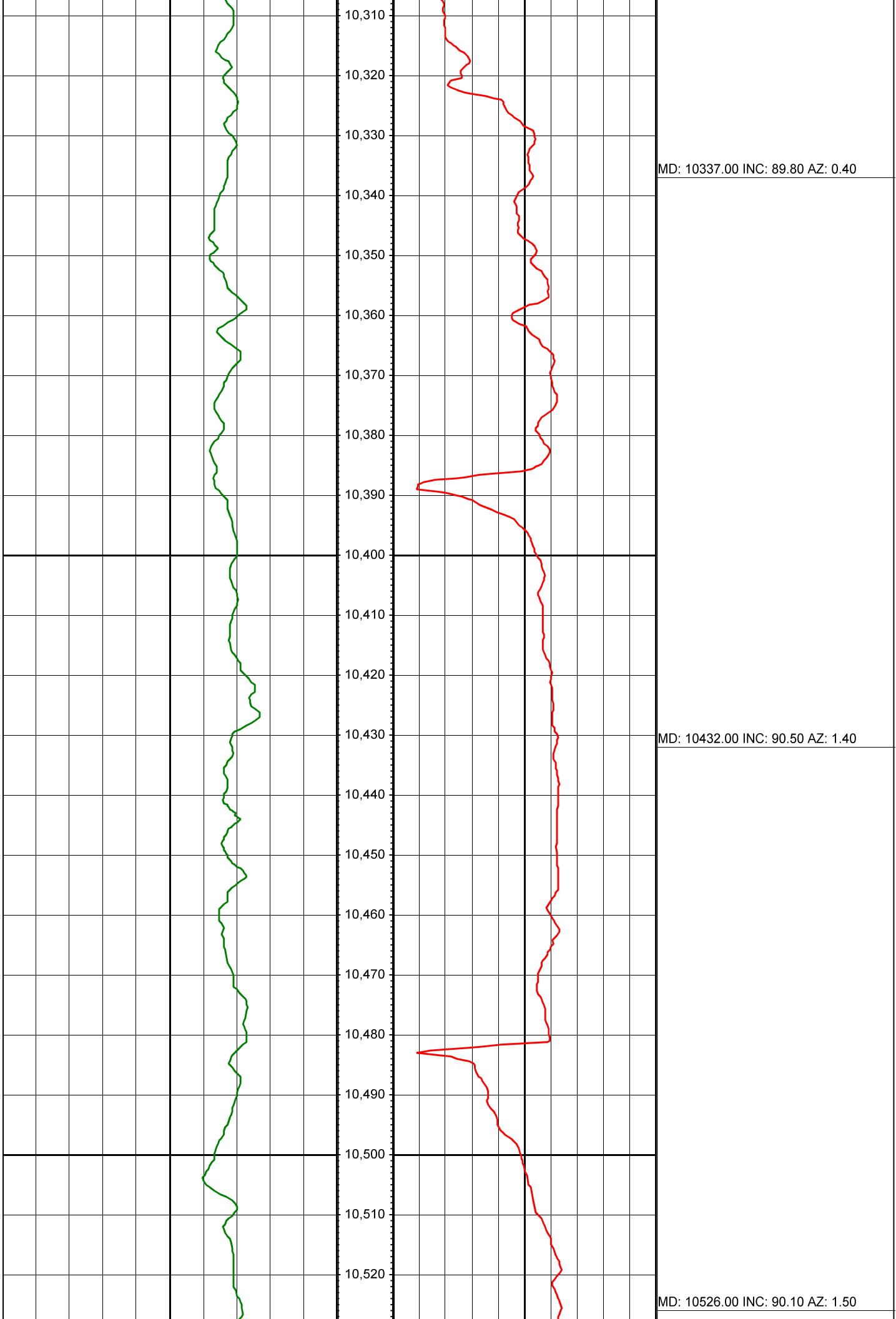
MD: 9487.00 INC: 91.60 AZ: 0.40

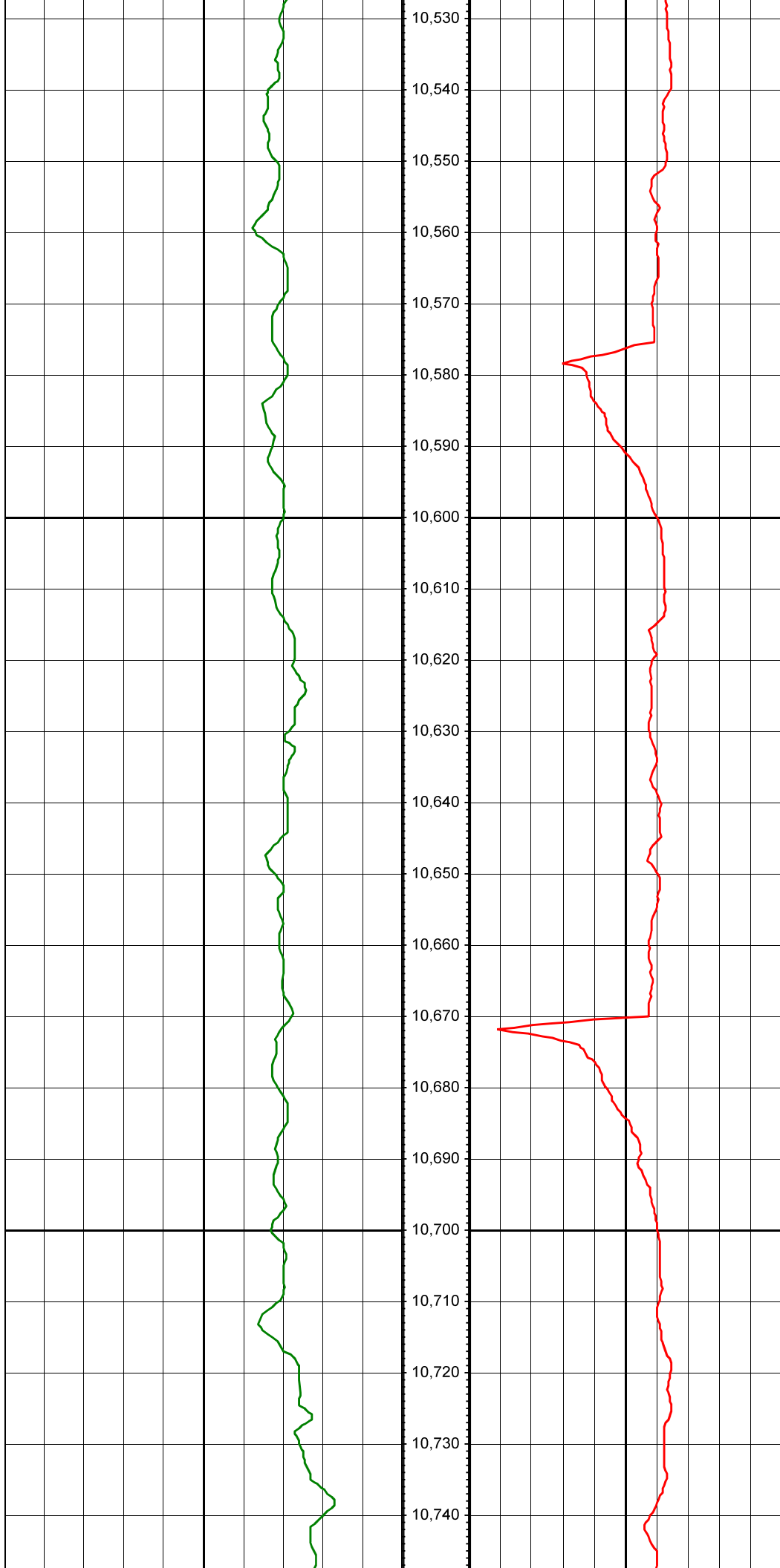
MD: 9581.00 INC: 90.80 AZ: 0.70











MD: 10621.00 INC: 89.70 AZ: 0.60

MD: 10715.00 INC: 89.30 AZ: 0.40

