



Cathedral Energy Services
1949 North Pyrite Road
Casper, Wyoming 82604

145268

5":100' - MD

9/25/2014 8:38:41 AM

CATHEDRAL

Oper. Company: Encana Oil & Gas (USA) Inc.

Country: U.S.A.

State / Province: Colorado

County / Parish: Weld

Started: 08/20/2014 09:00 PM

API/UWI: 05-123-37589-00

Field: Wattenberg (Niobrara)

Well: Drieth 1E-6H-A368

Rig: Ensign Drilling 135

Ended: 09/01/2014 05:00 AM

Gamma Ray
Section Plane: 270.00
Magnetic North: 8.57
Gamma Averaging: 7%

Personnel

Day Hand: J. Corby

Night Hand: J. Davis

Comp. Emp: Dennis Elrod

Maximum Temperature: 203°F

Location

Latitude: 40.260070

Longitude: -105.038150

Elev. GL: 5086

Elev. DF:

Elev. KB: 5099

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

Hole Data

Size	From	To
8-3/4	845	7653
6-1/8	7653	11493

Casing Data

Size	From	To
9-5/8	0	842
7	0	7638

Bit Sizes

Size	From	To
8-3/4	845	7653
6-1/6	7653	11493

Mud Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
LSND							845	11493

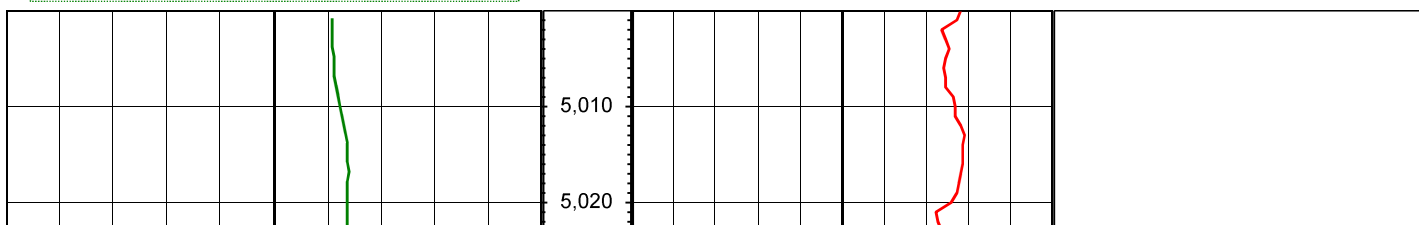
Tool Run Data

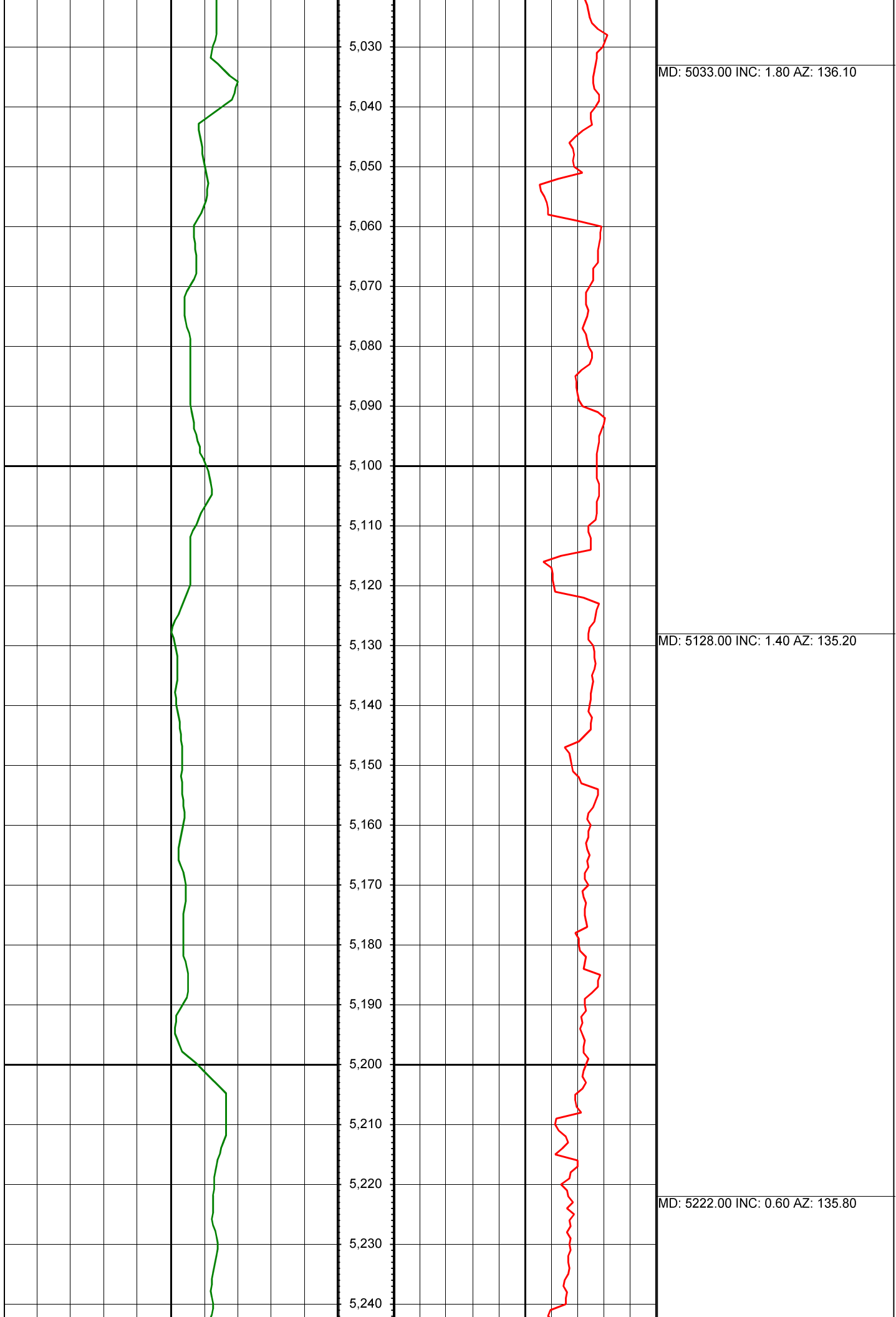
Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
1492	40.38	0	9/25/2014 8:11:12 AM	845	9/25/2014 8:11:12 AM	6875
1492	40.38	0	8/23/2014 6:30:43 PM	6875	8/25/2014 2:30:43 AM	7653
1492	40.37	0	8/29/2014 3:30:22 PM	7653	9/1/2014 5:00:22 AM	11493

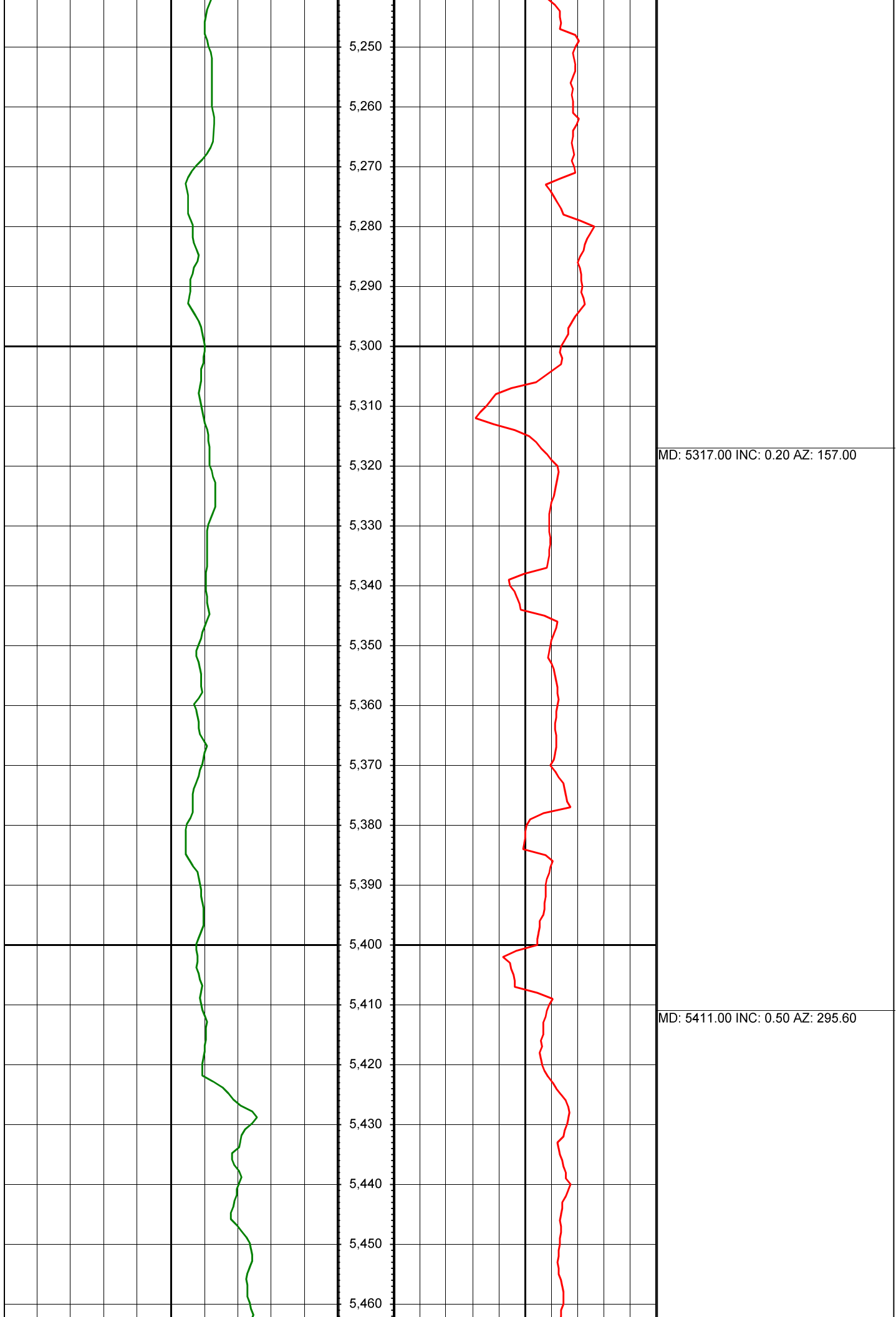
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost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

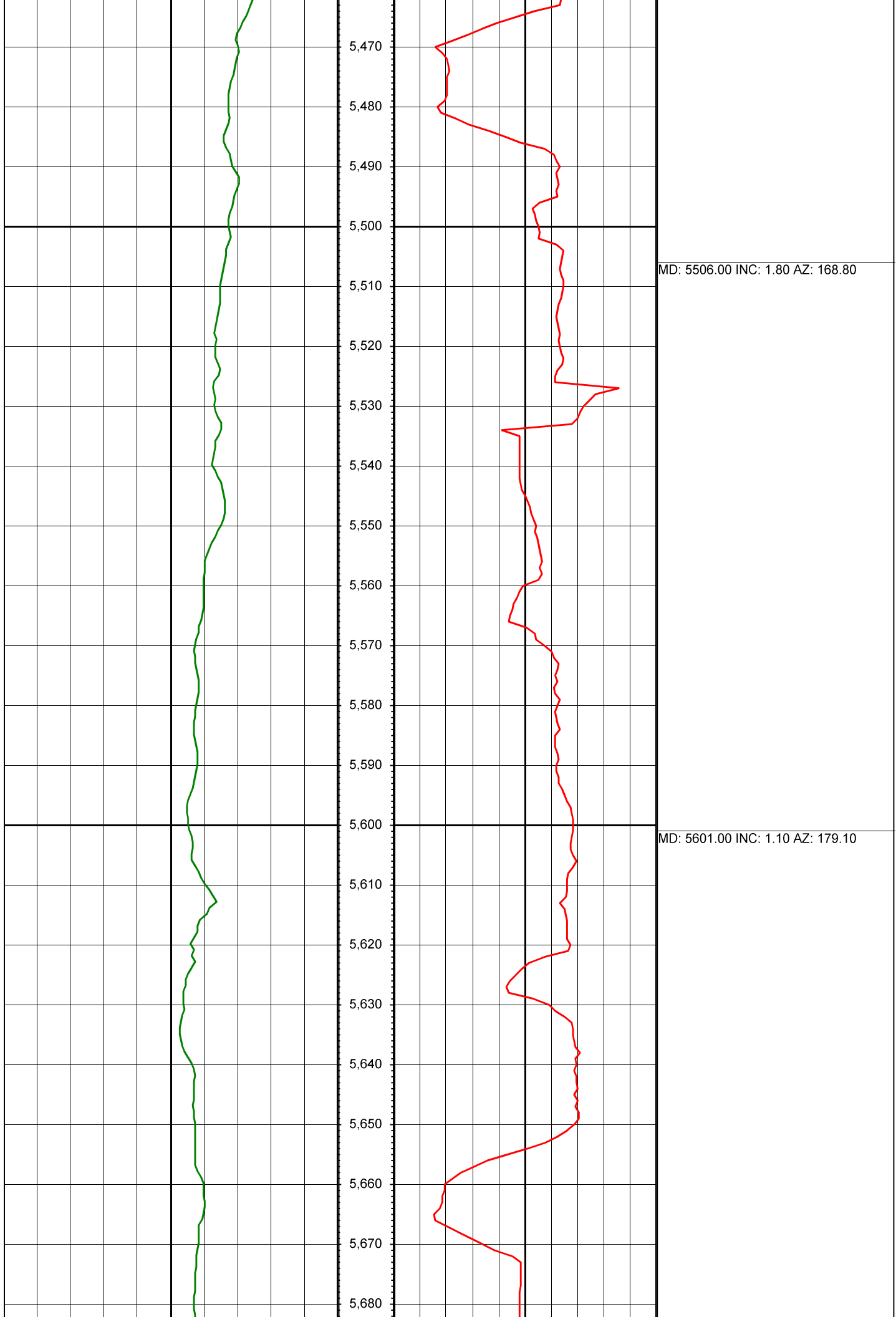
0.00 Gamma Ray (API) 150.00 MD 0.00 ROP (FT/HR) 600.00 Surveys (MD/INC/AZ)

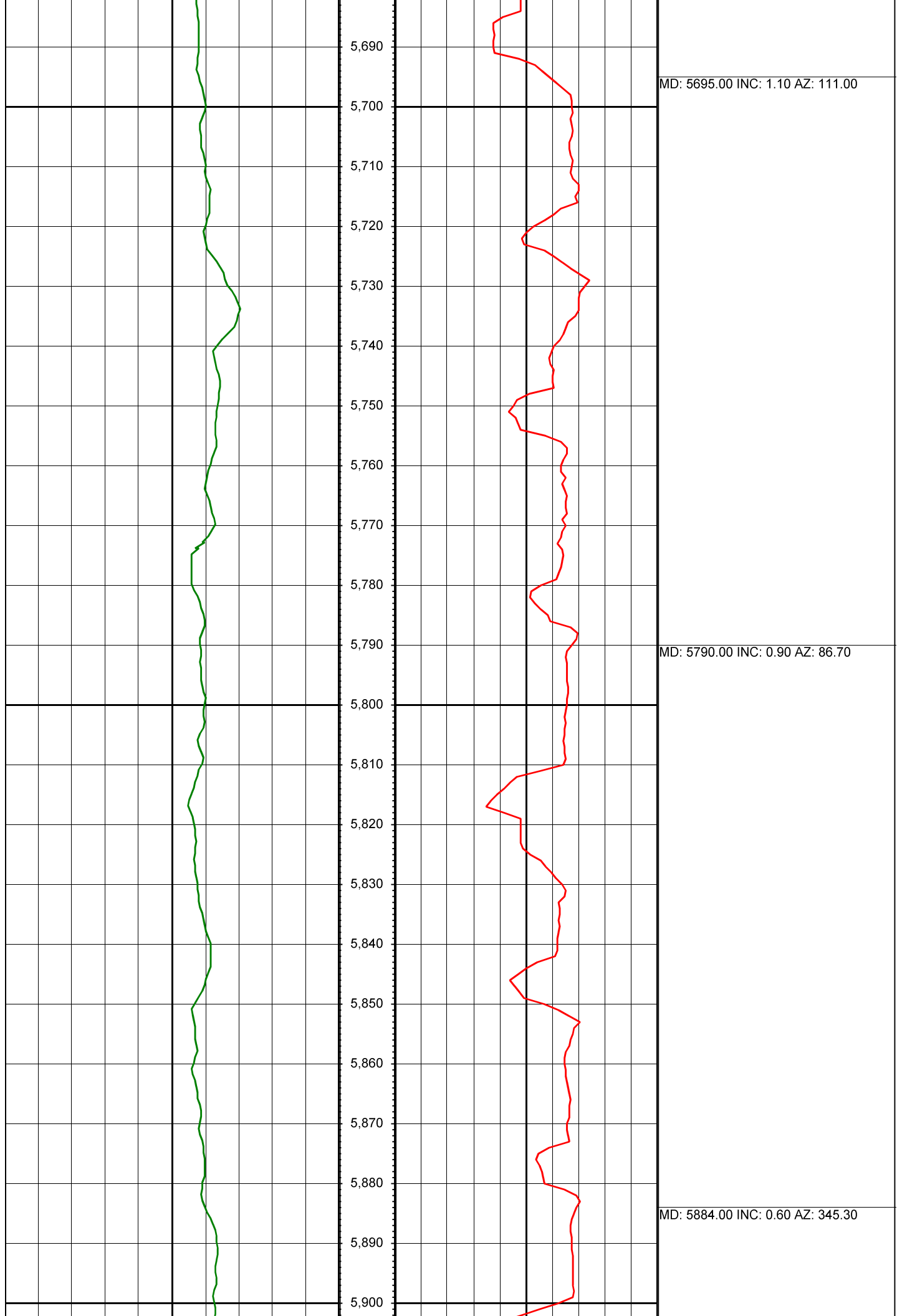
150.00 2 300.00 FT

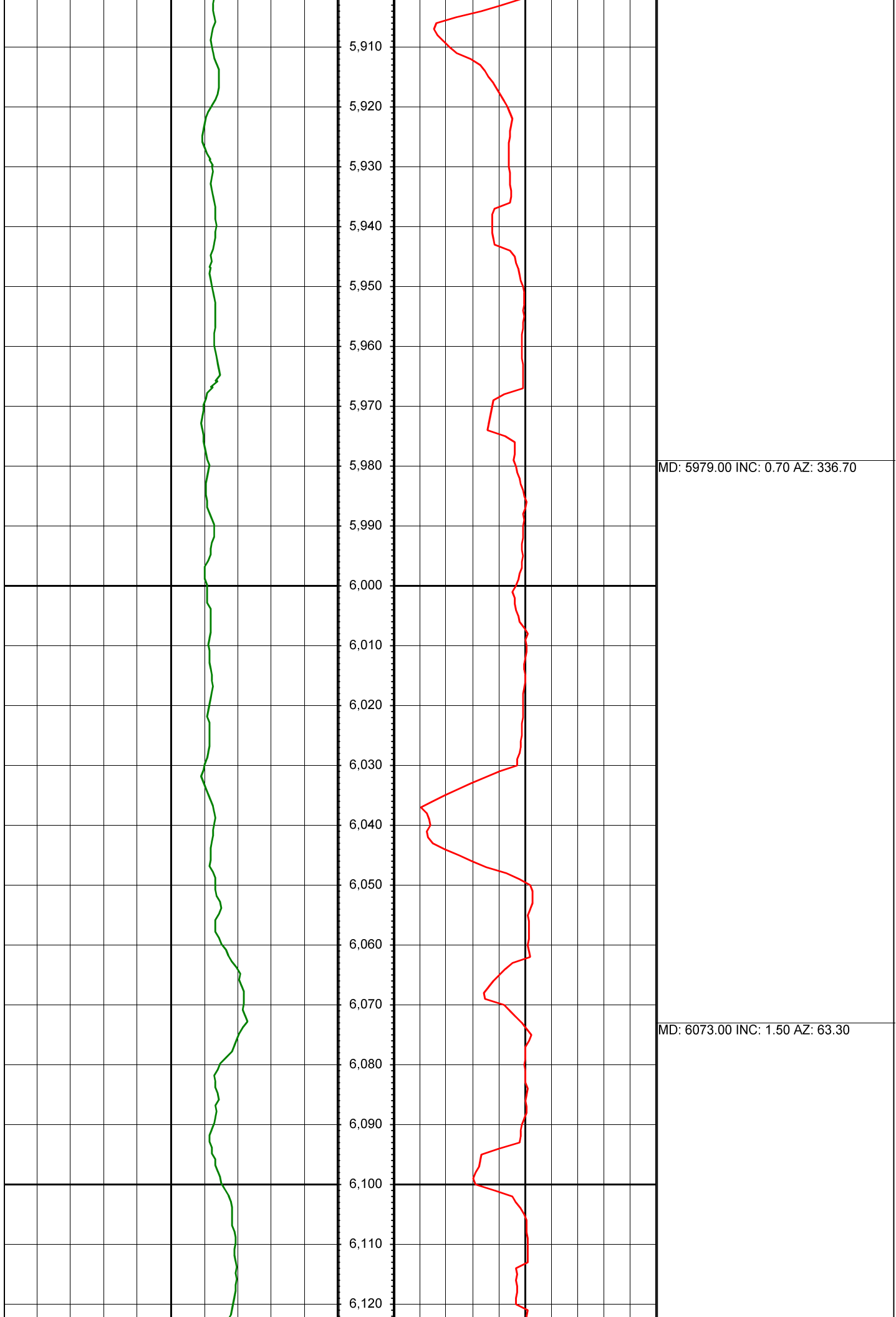


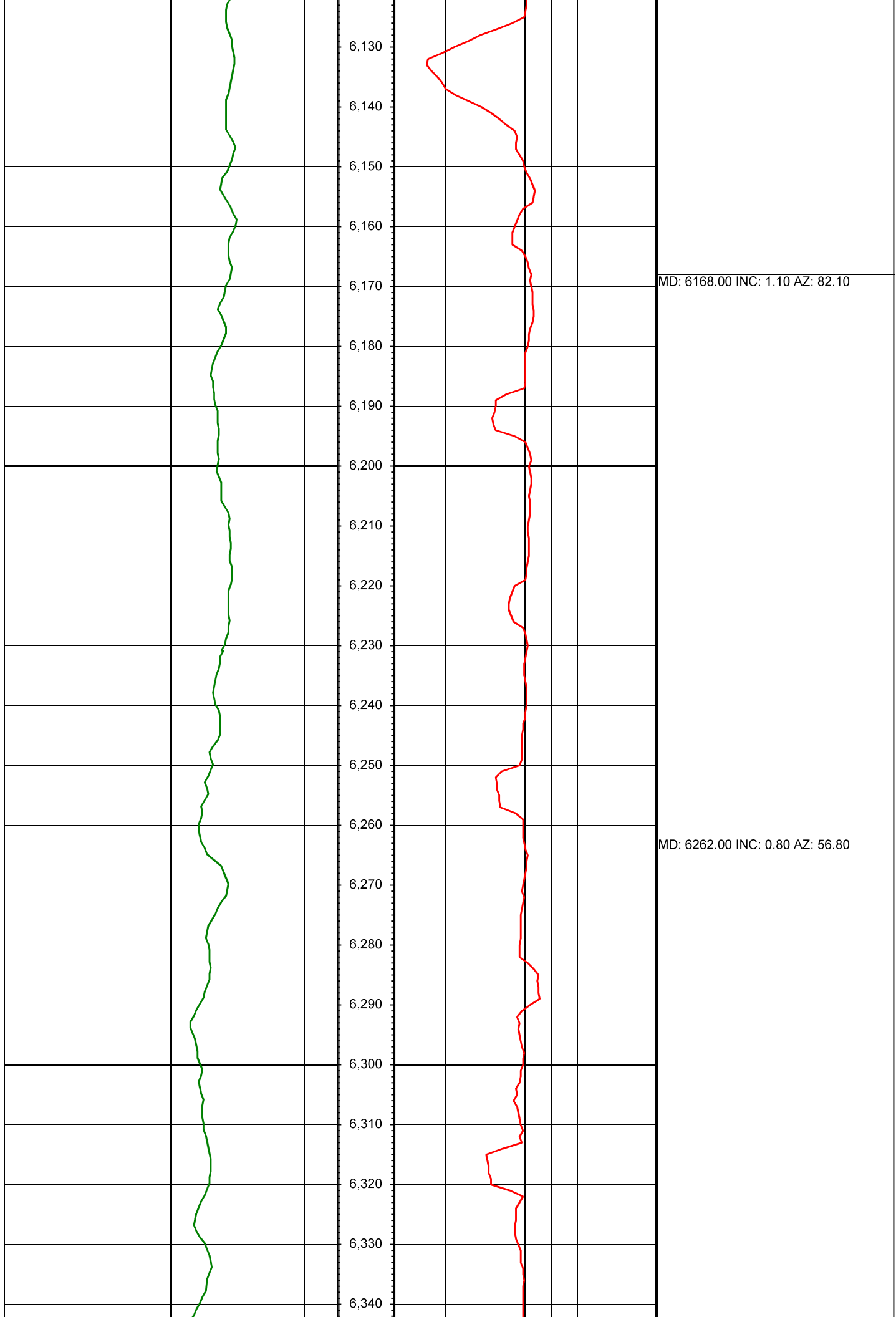


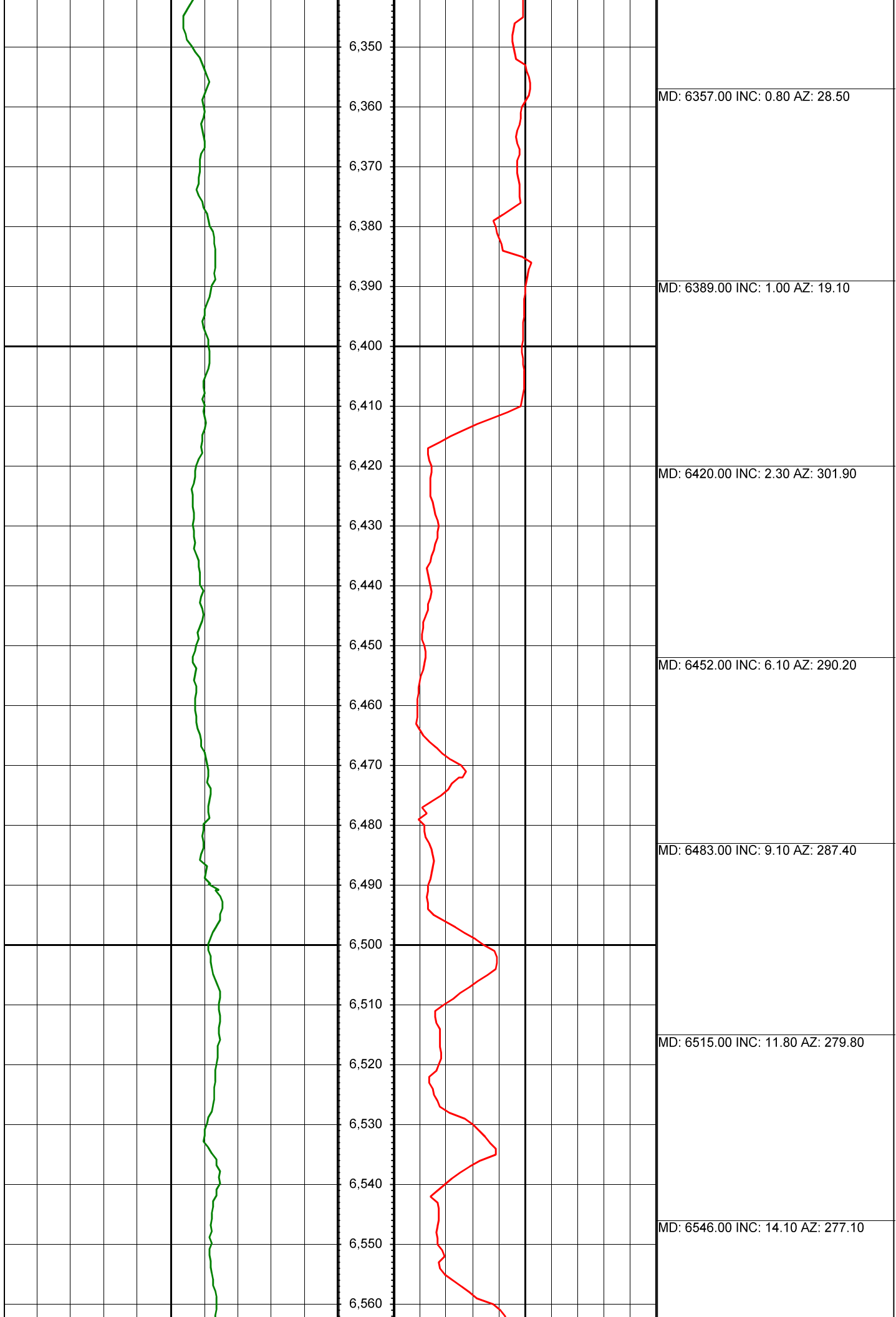


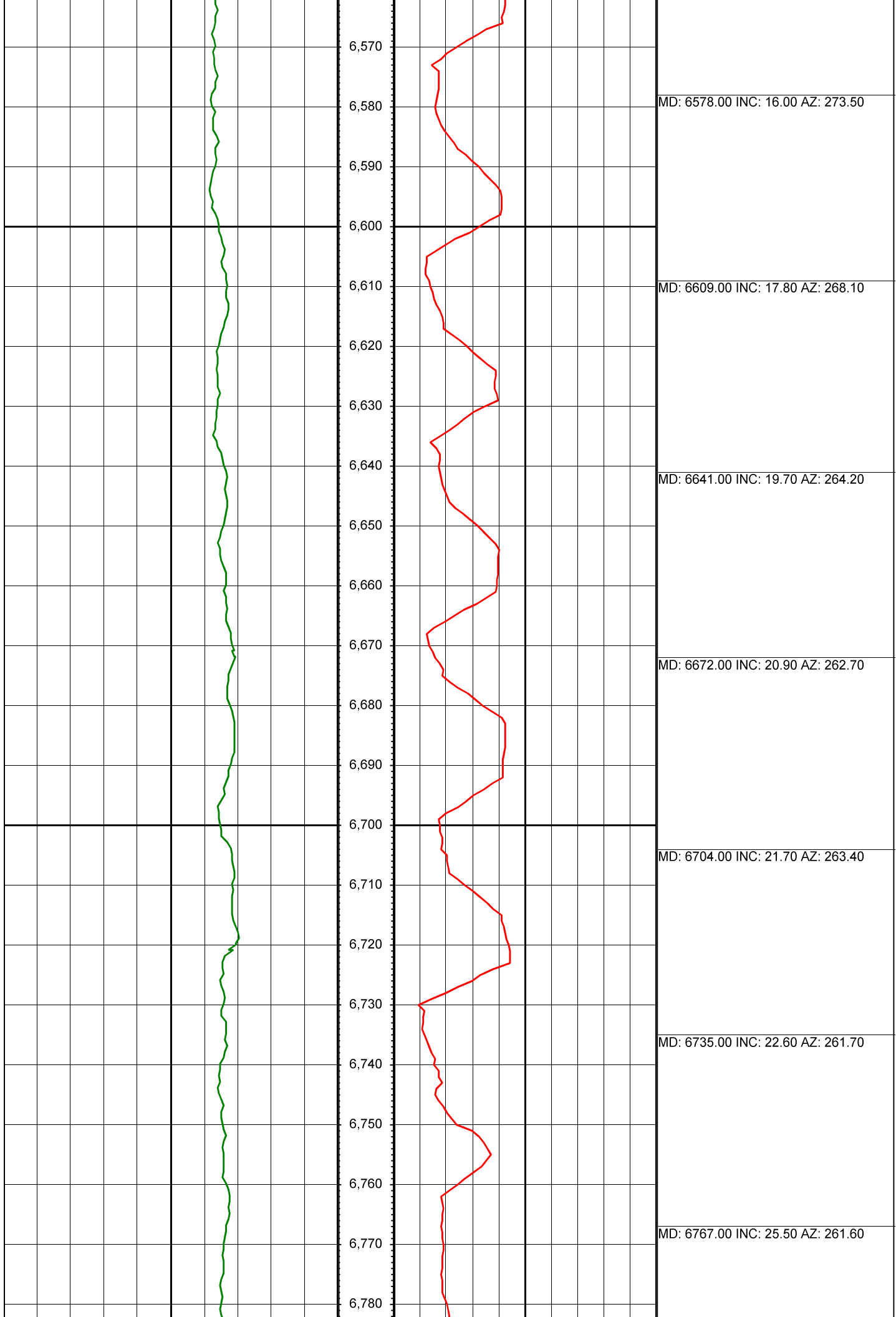


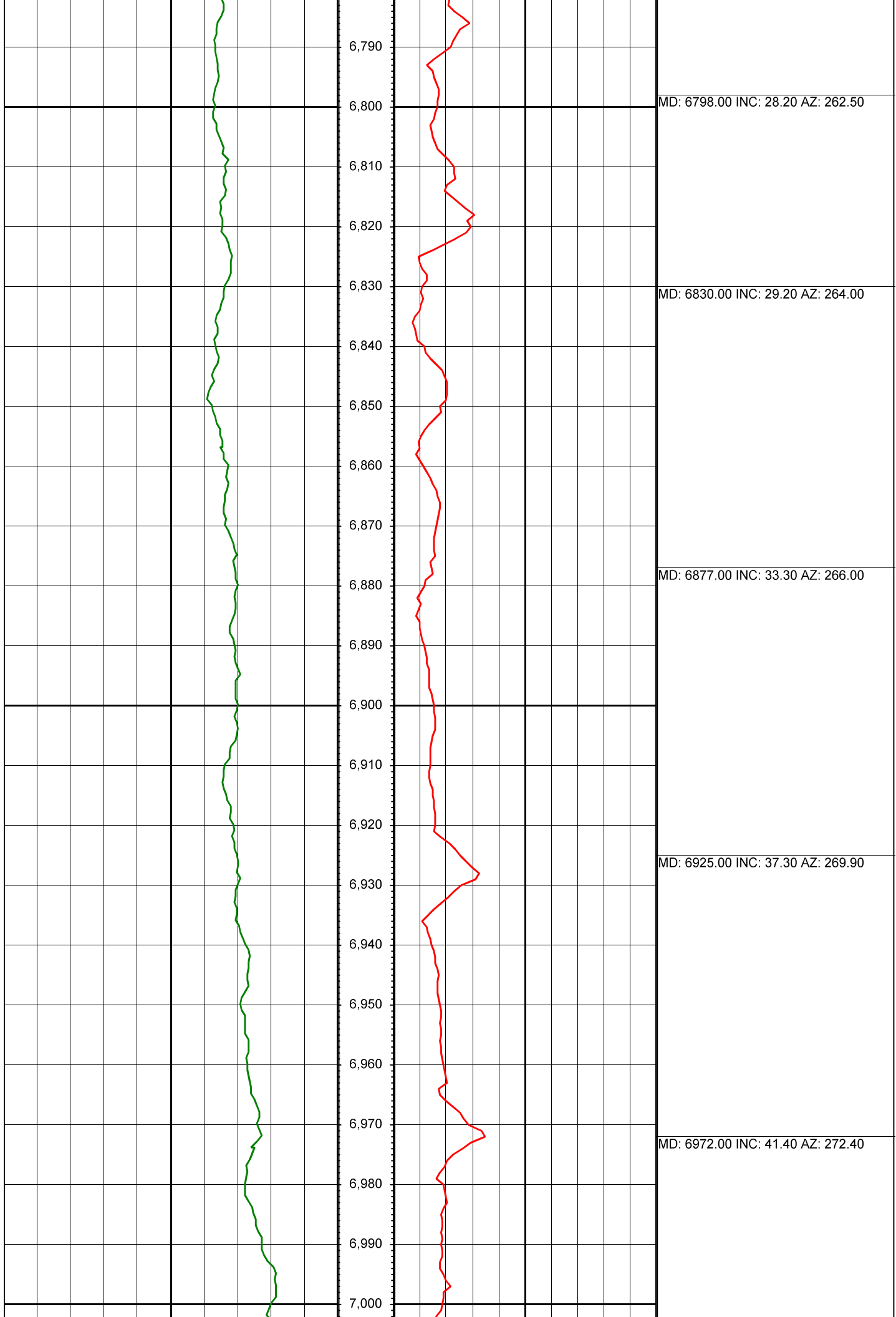


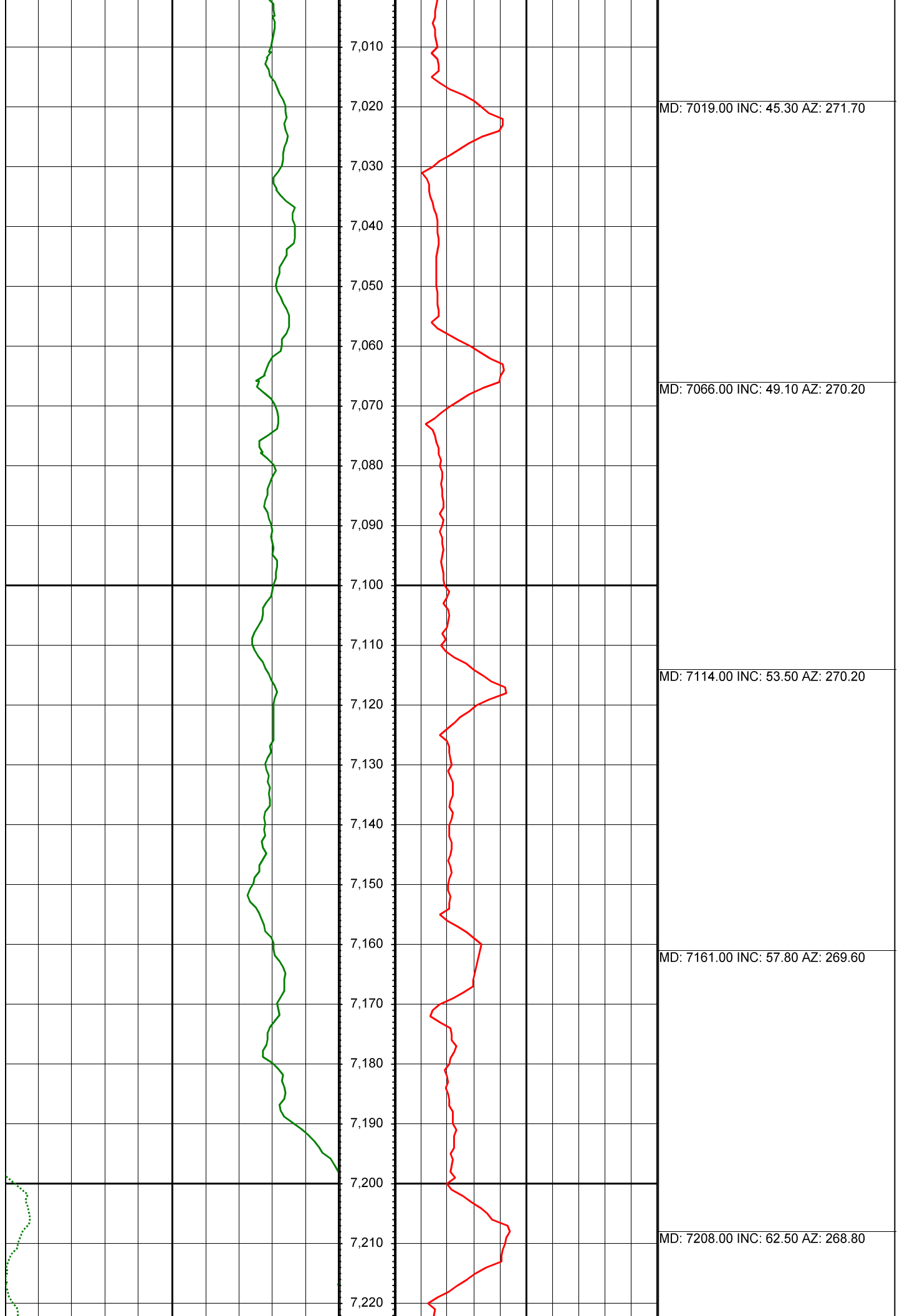


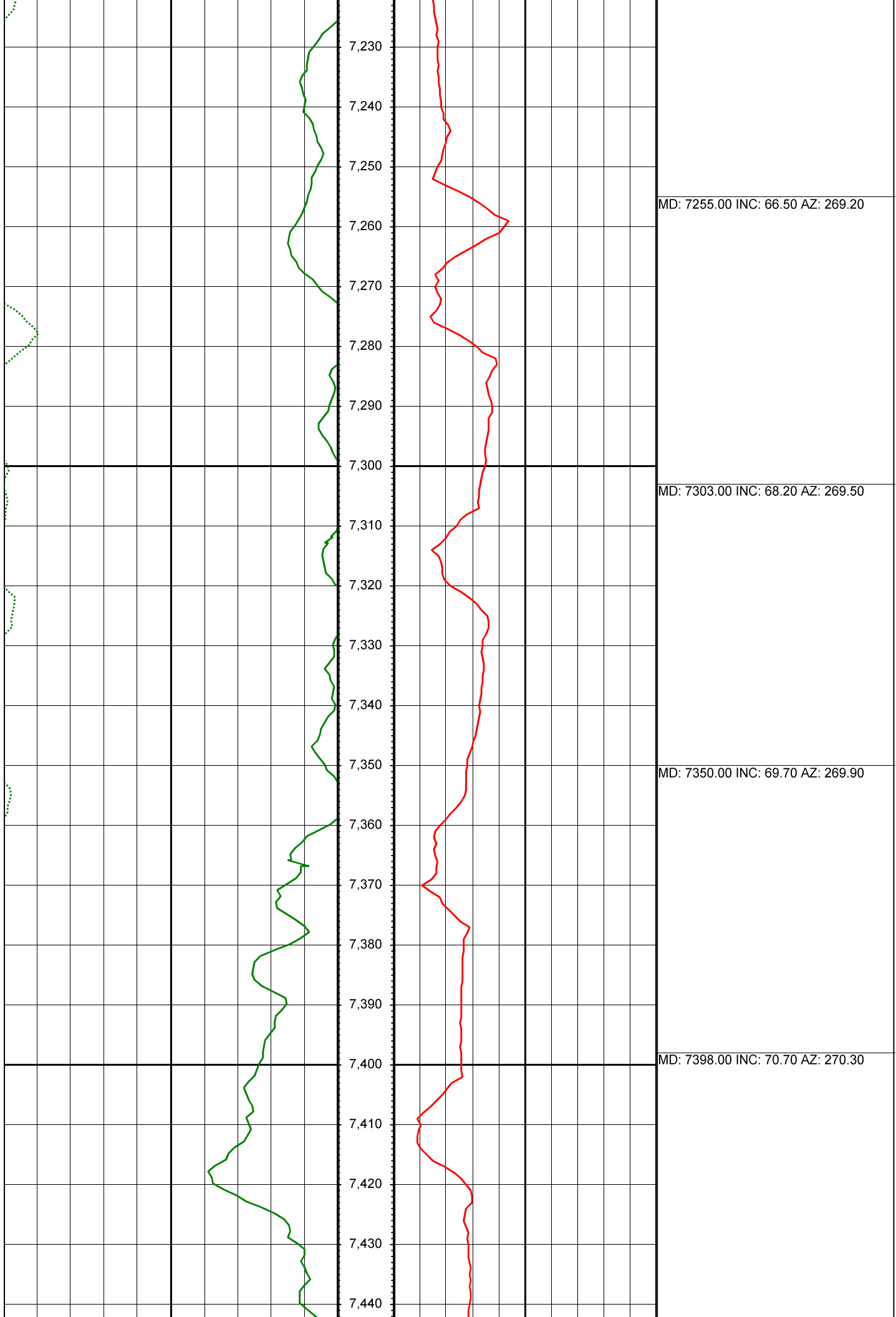


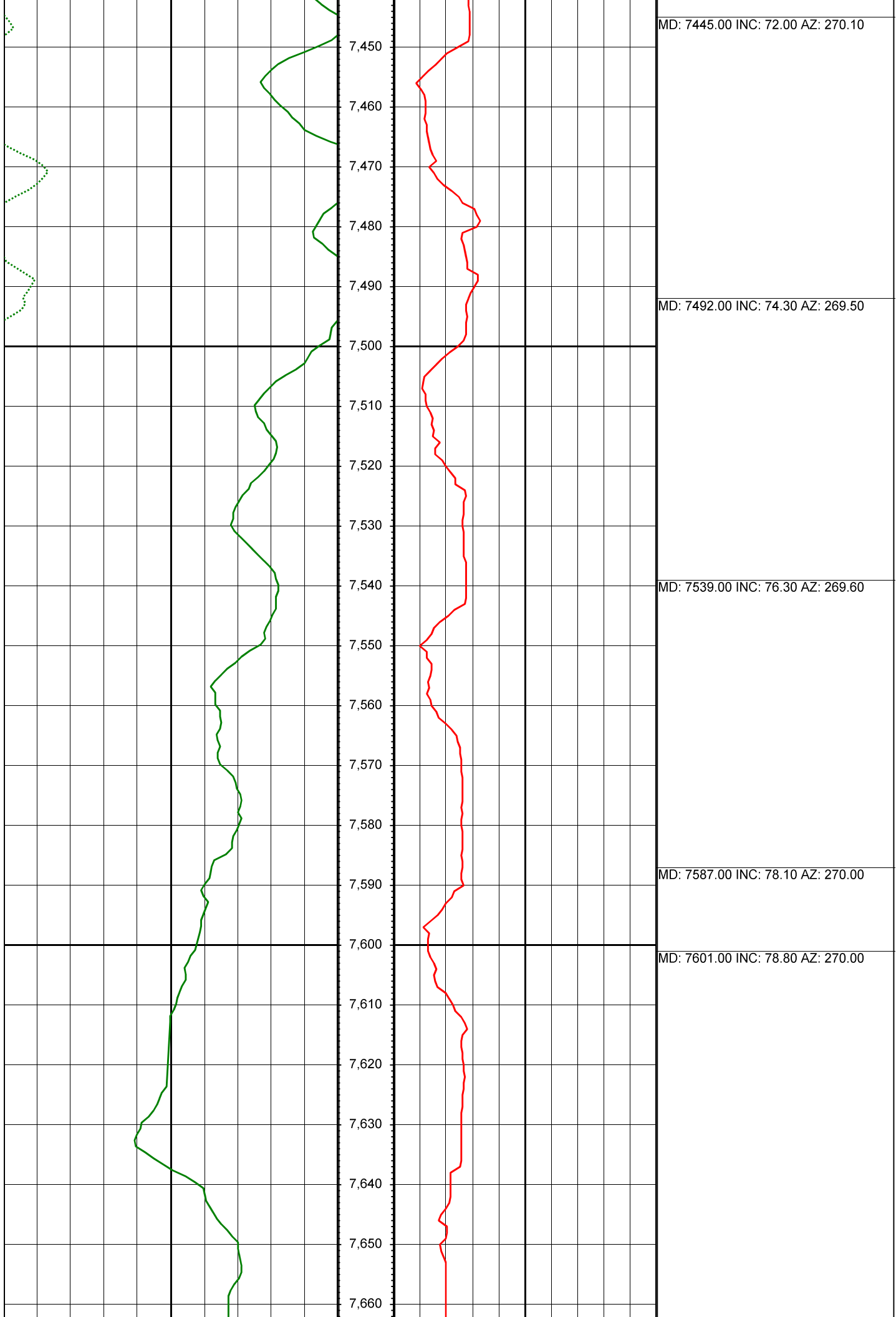


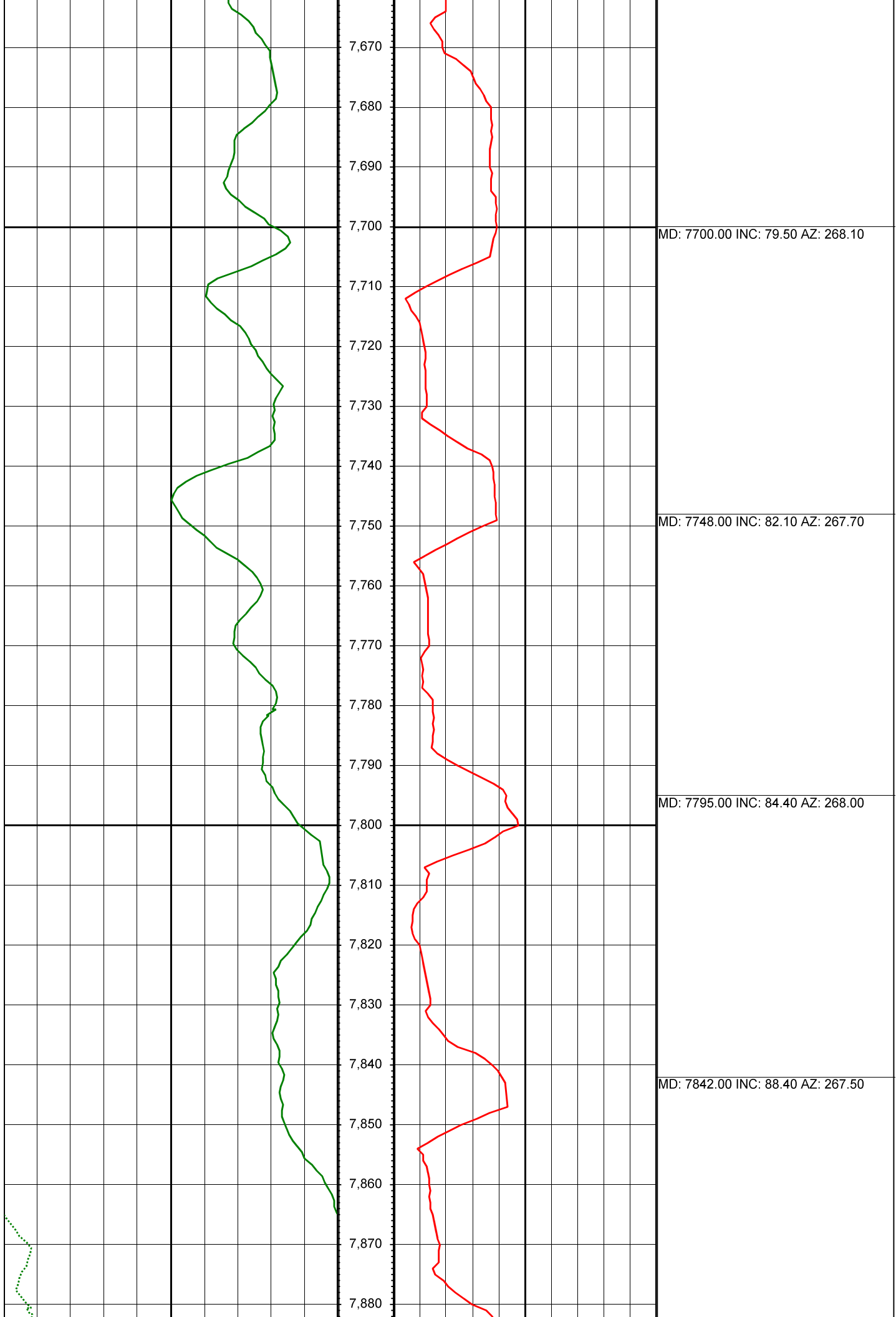


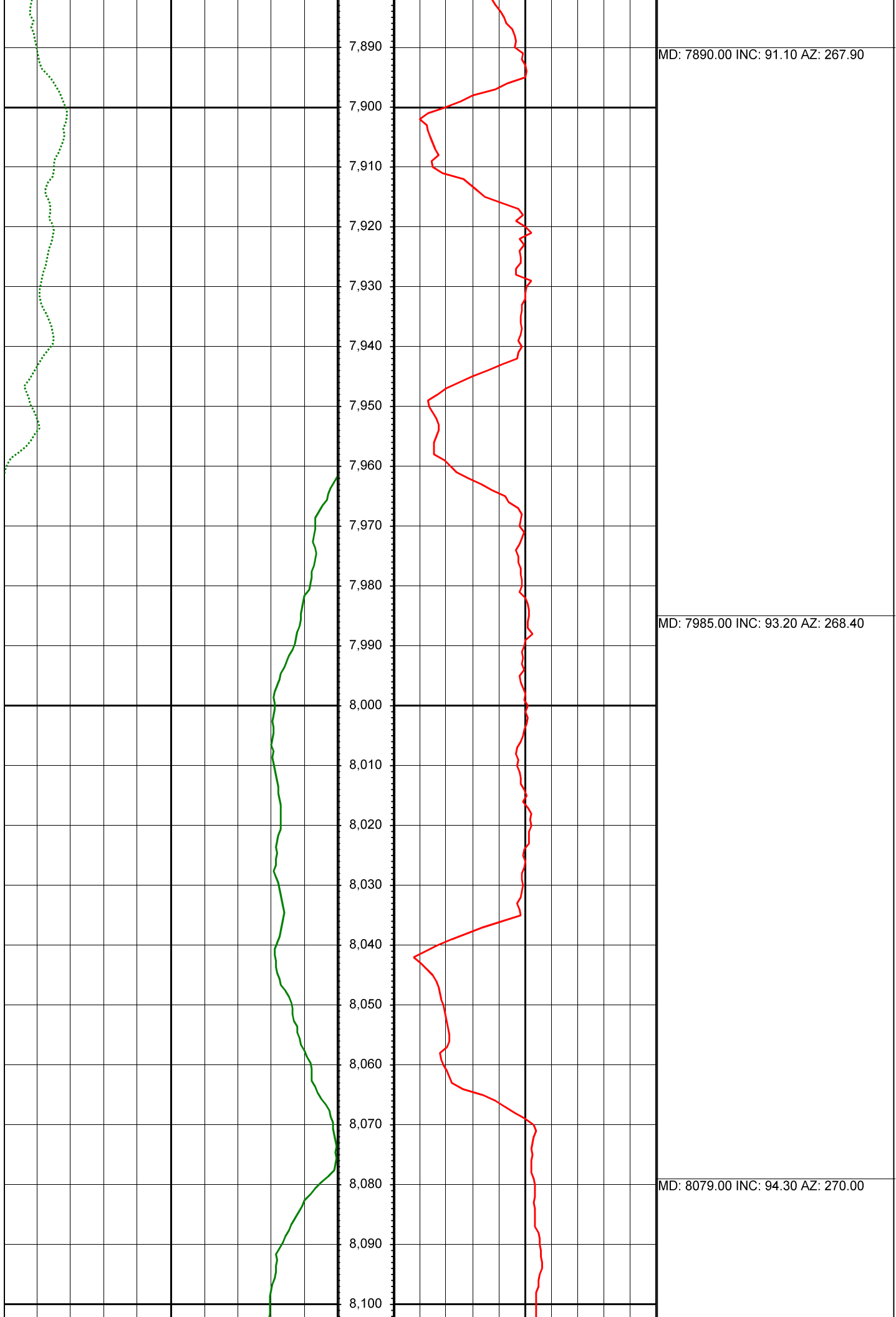


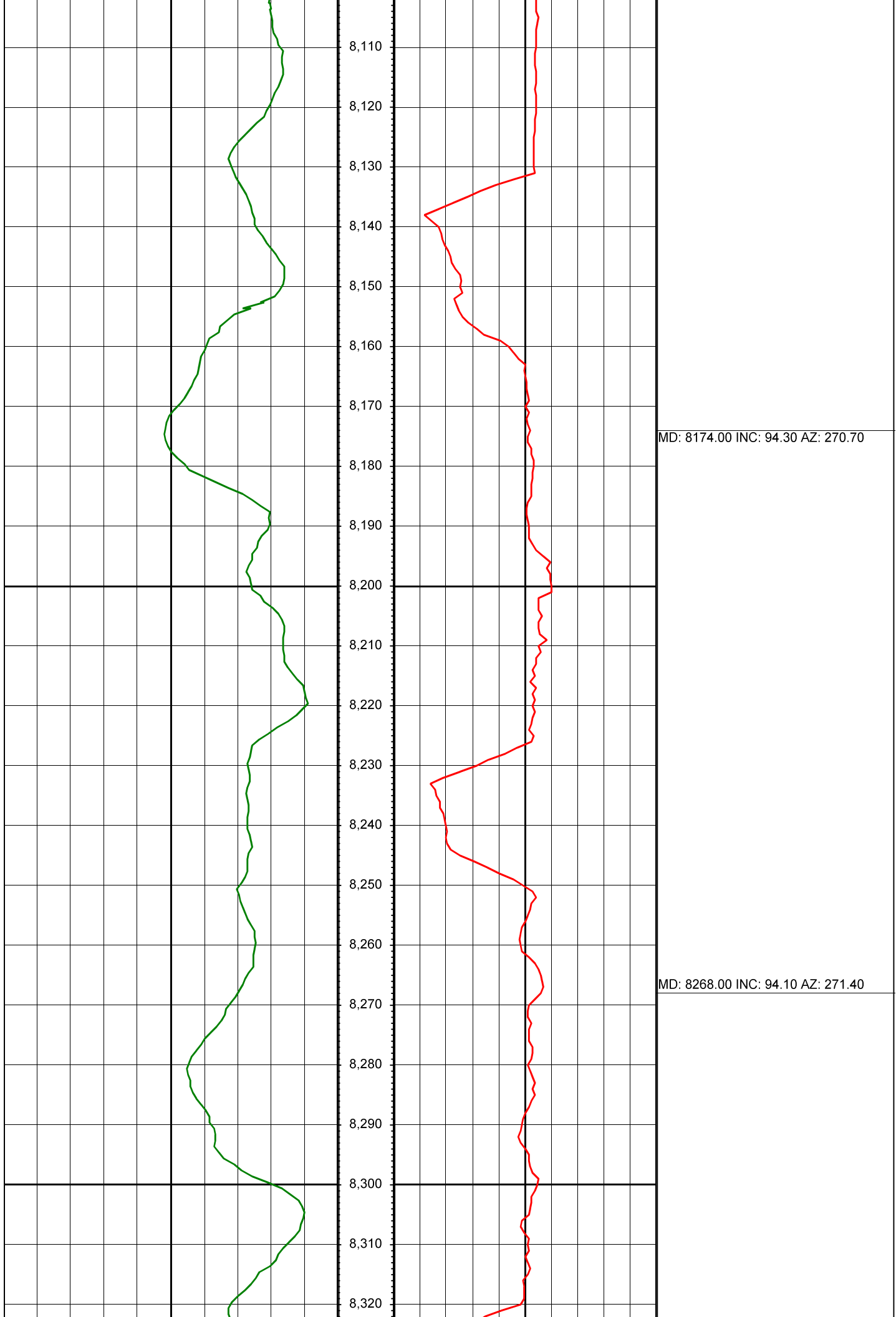


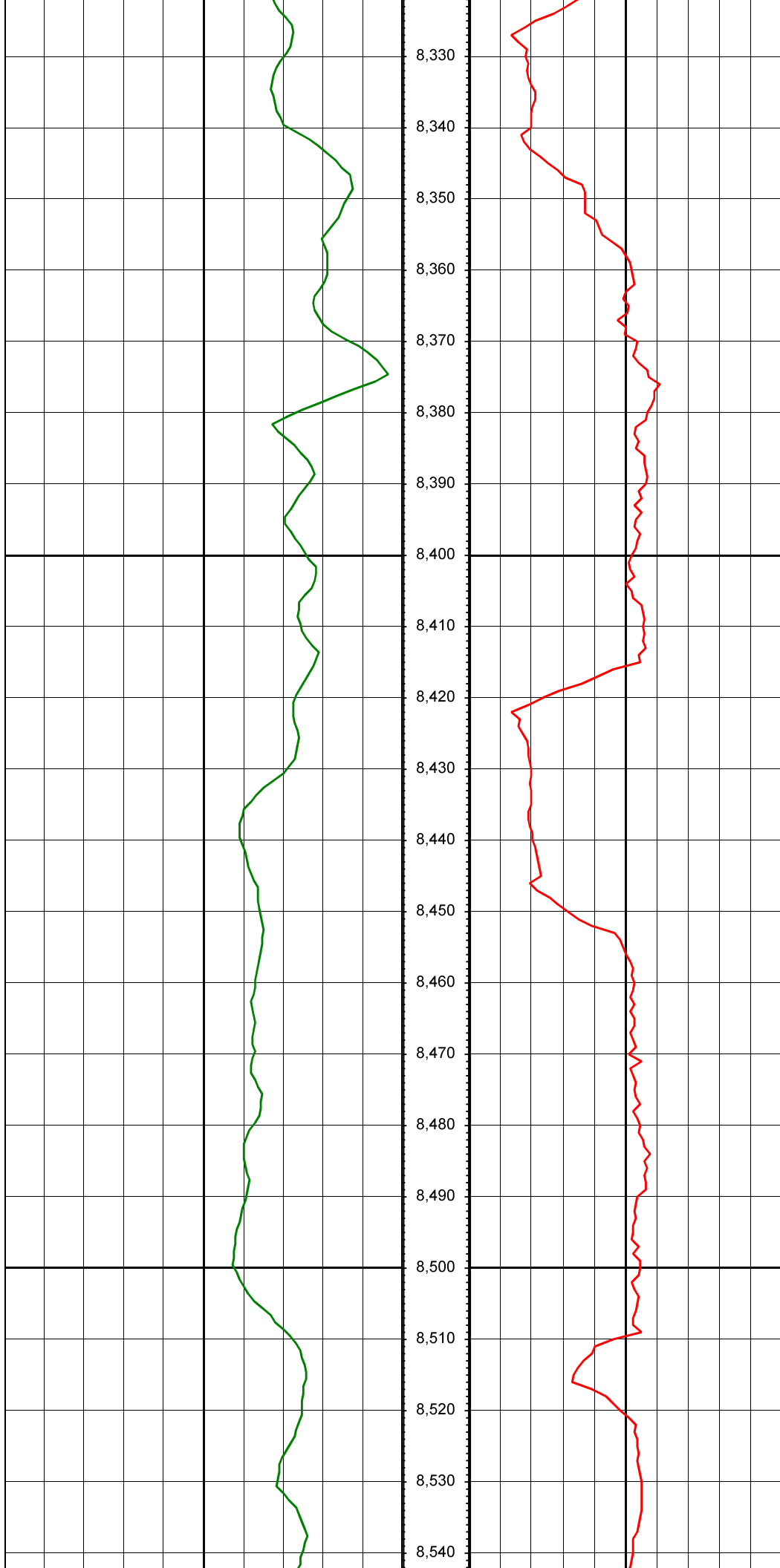






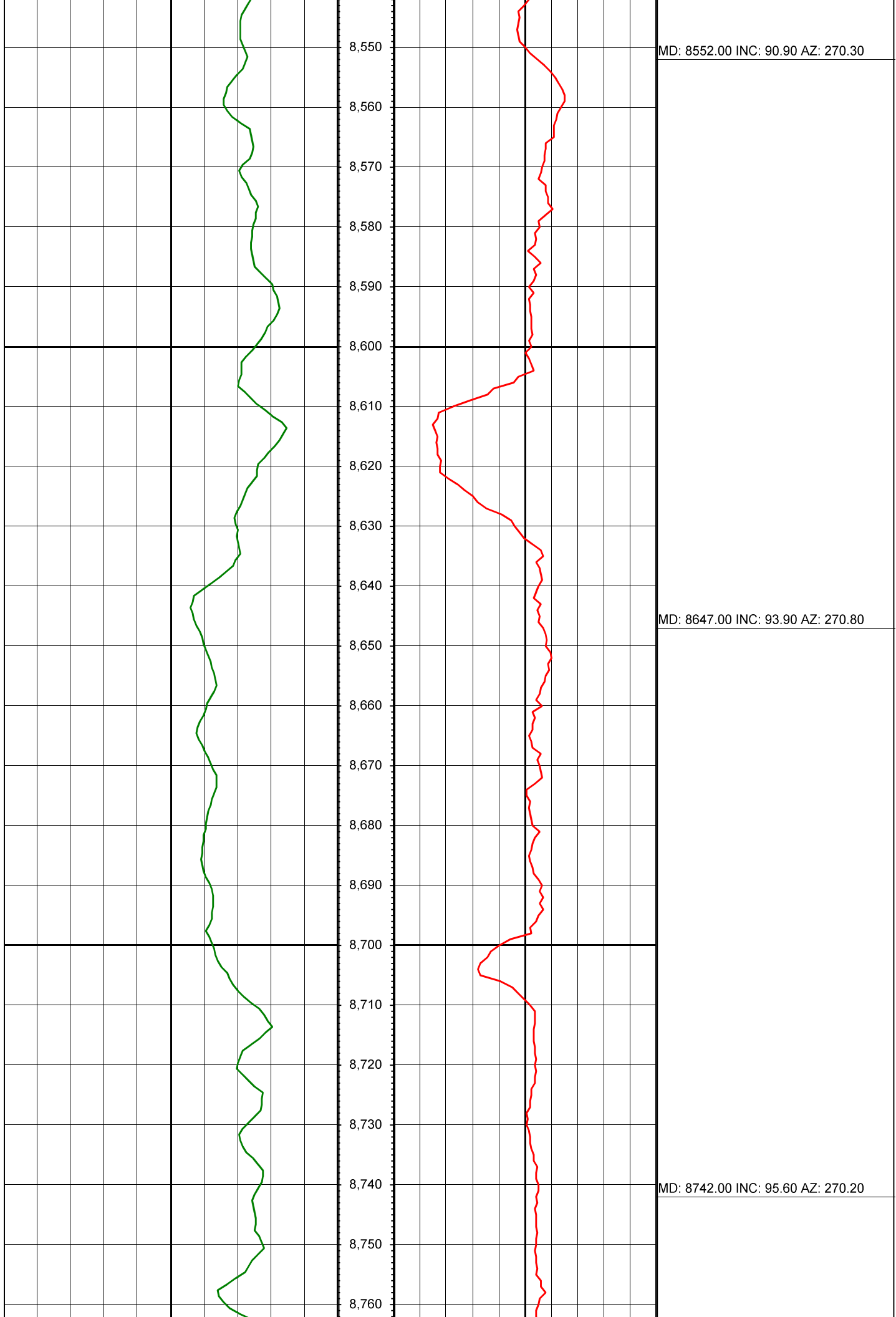


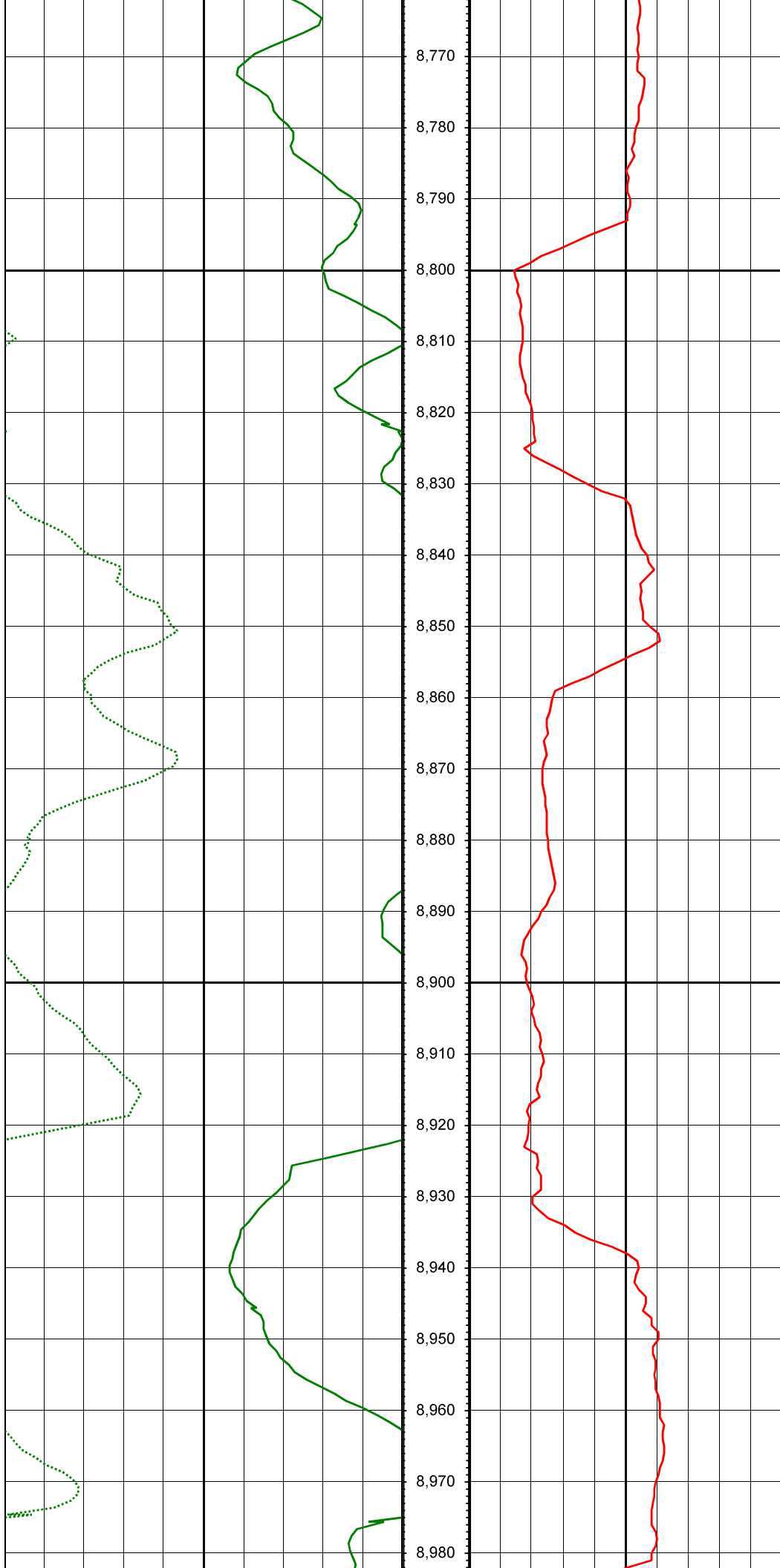




MD: 8363.00 INC: 94.20 AZ: 271.70

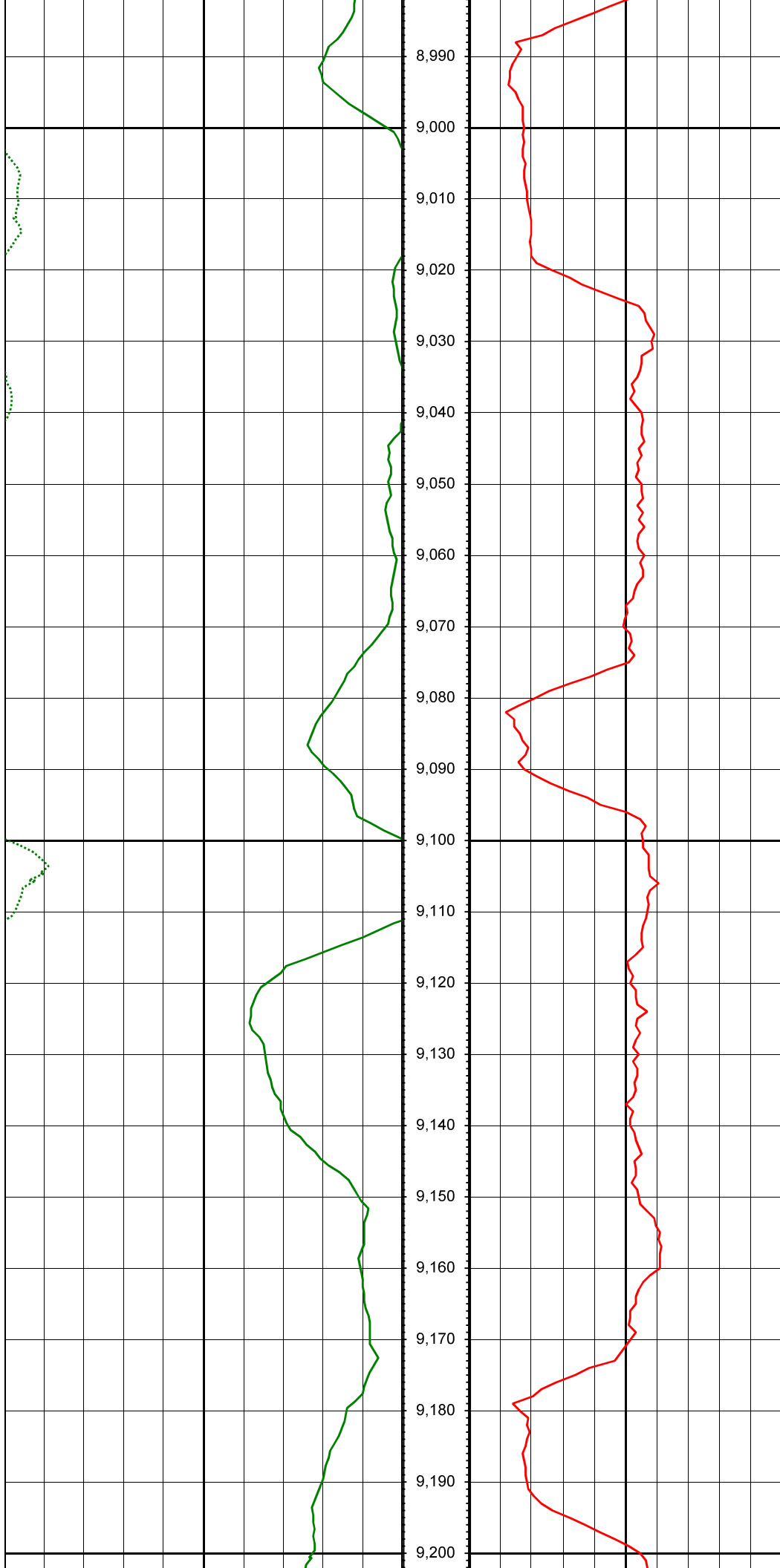
MD: 8458.00 INC: 92.40 AZ: 271.70





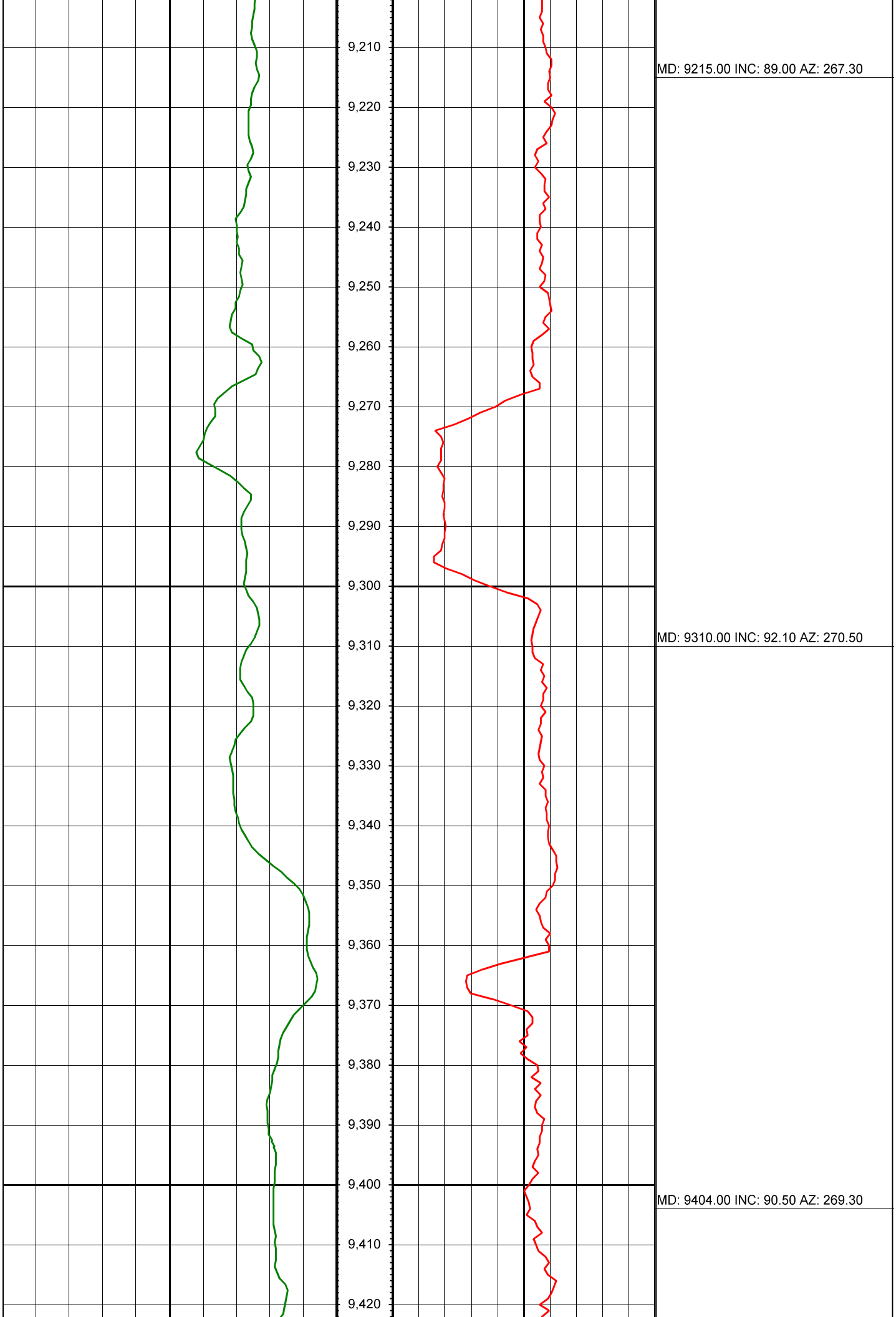
MD: 8837.00 INC: 95.80 AZ: 270.70

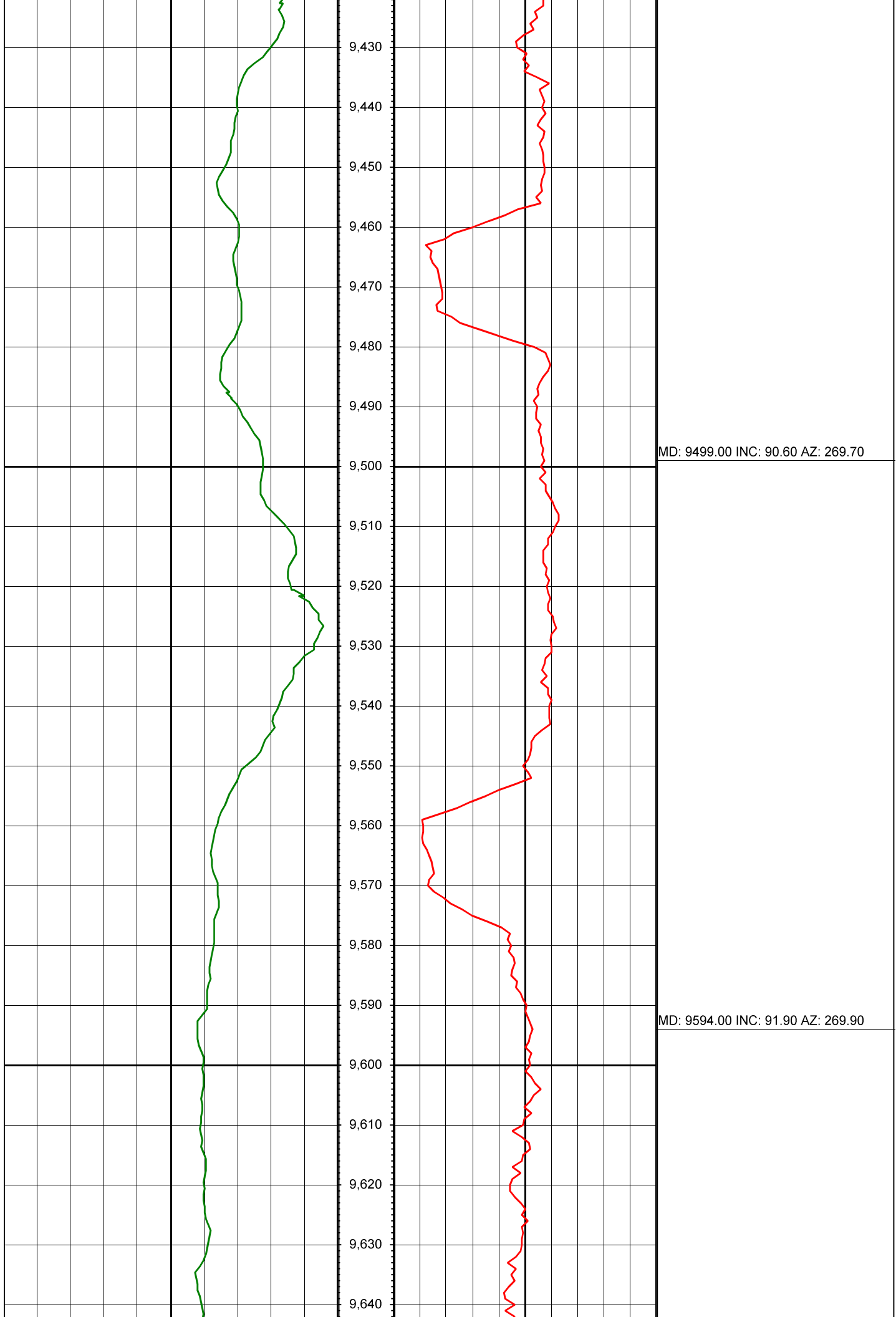
MD: 8931.00 INC: 94.00 AZ: 271.60

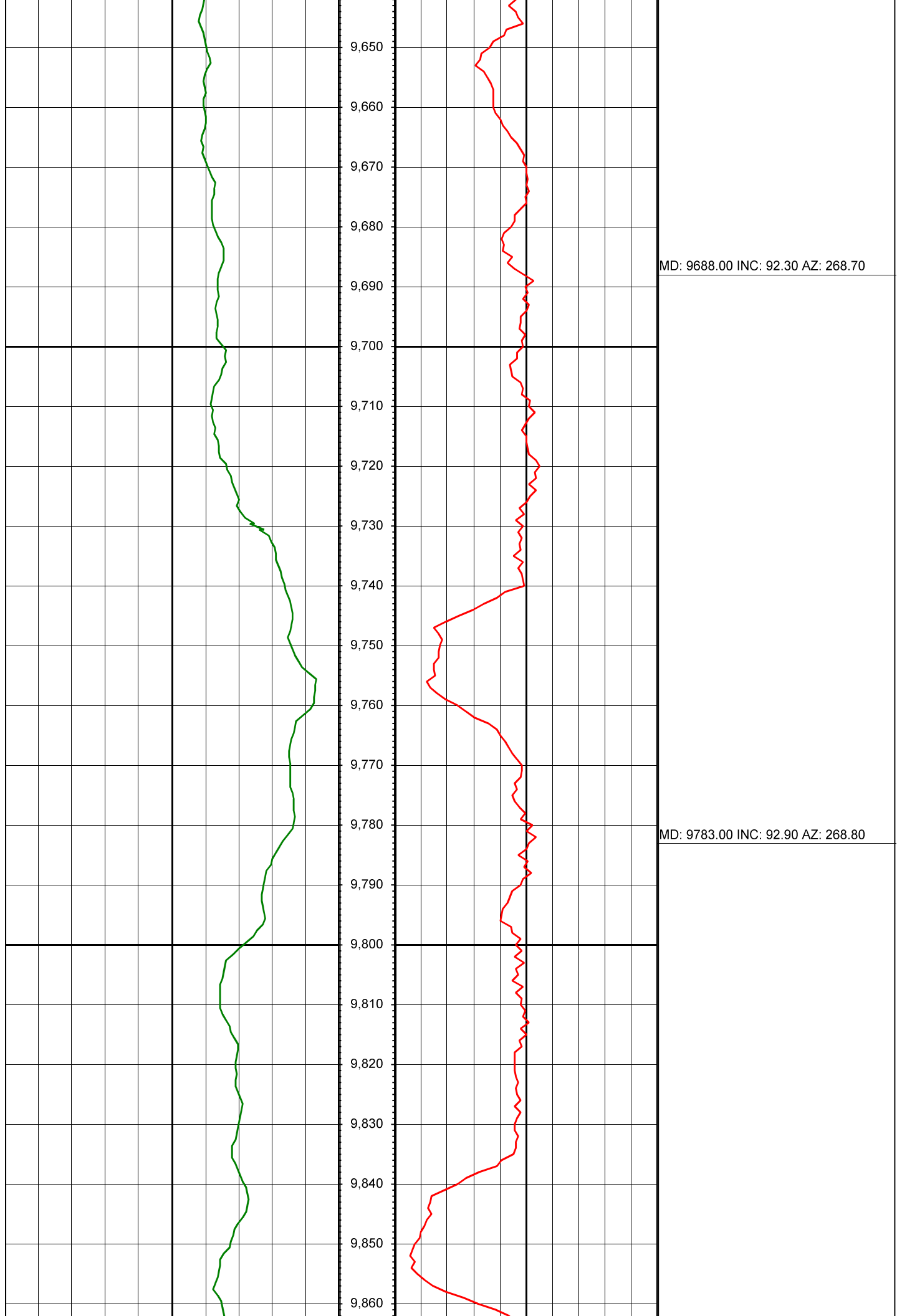


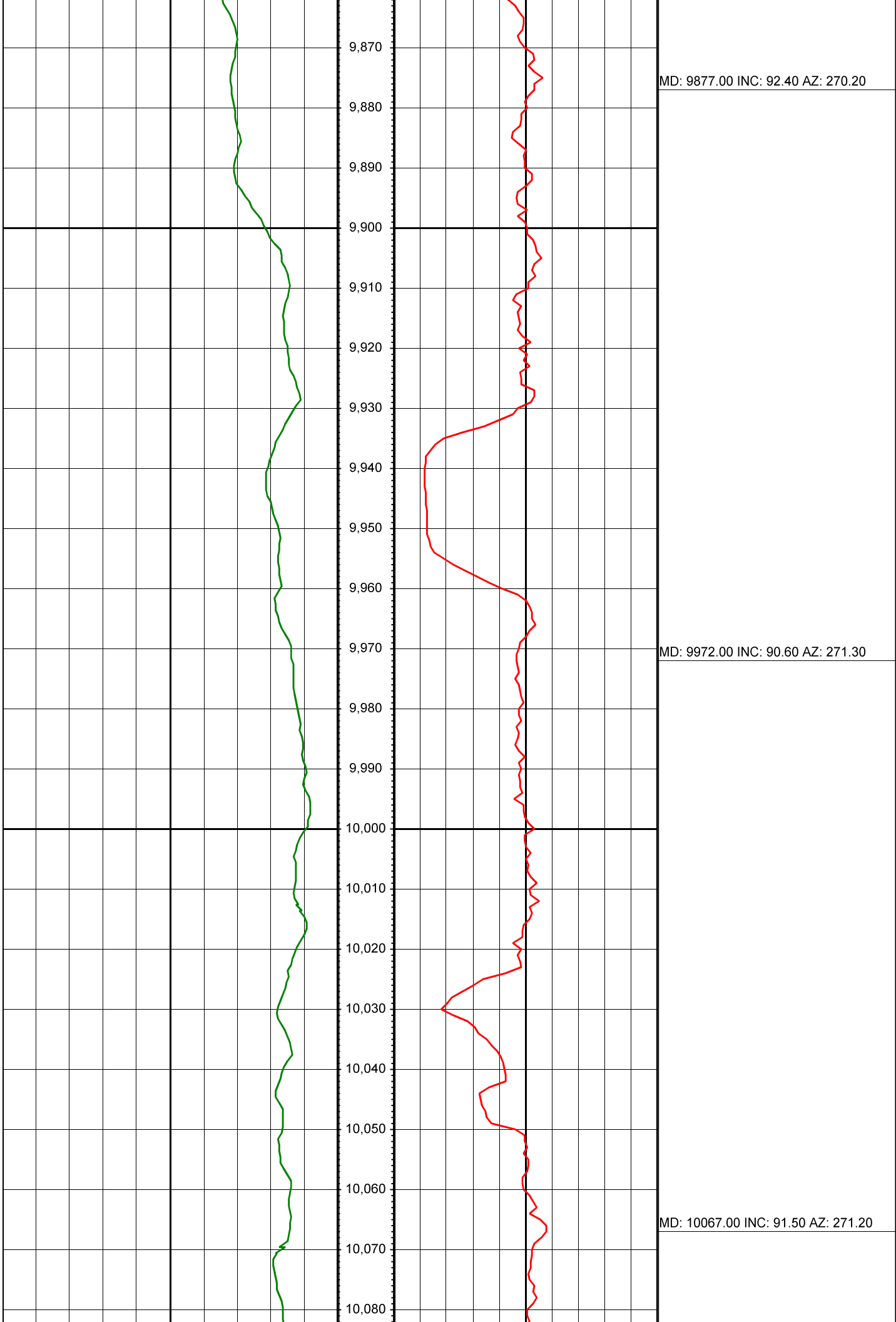
MD: 9026.00 INC: 91.60 AZ: 272.10

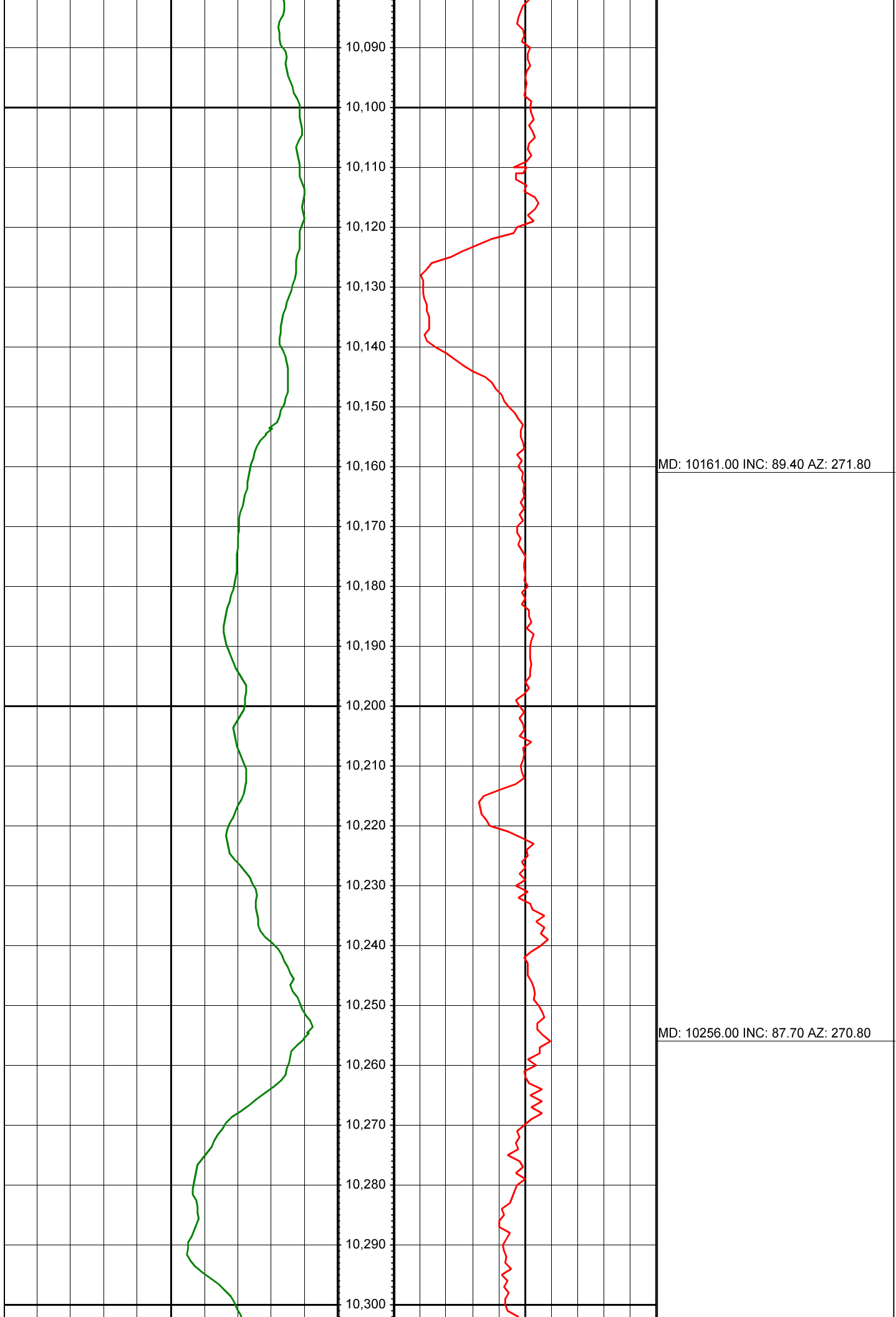
MD: 9121.00 INC: 89.10 AZ: 269.40

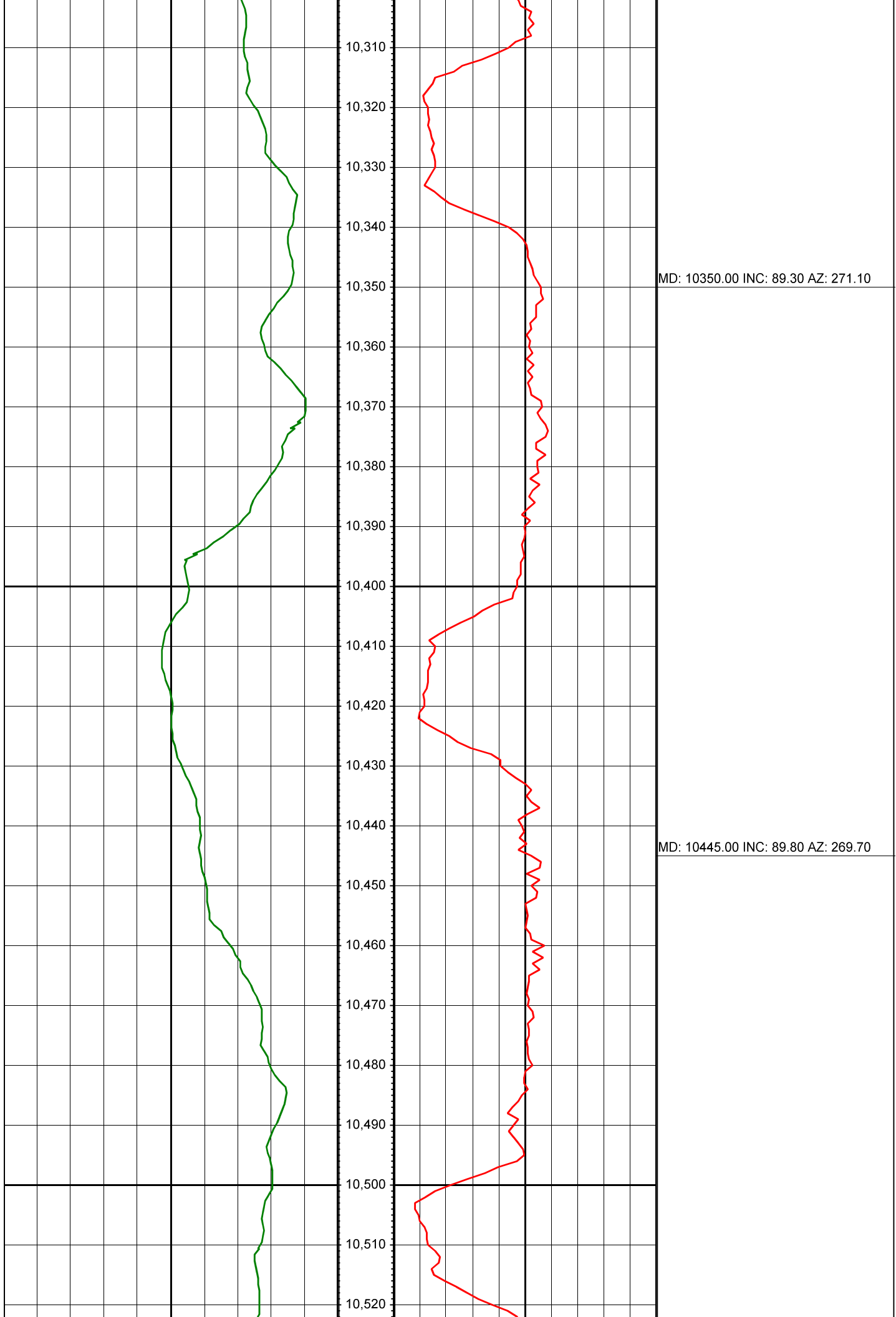


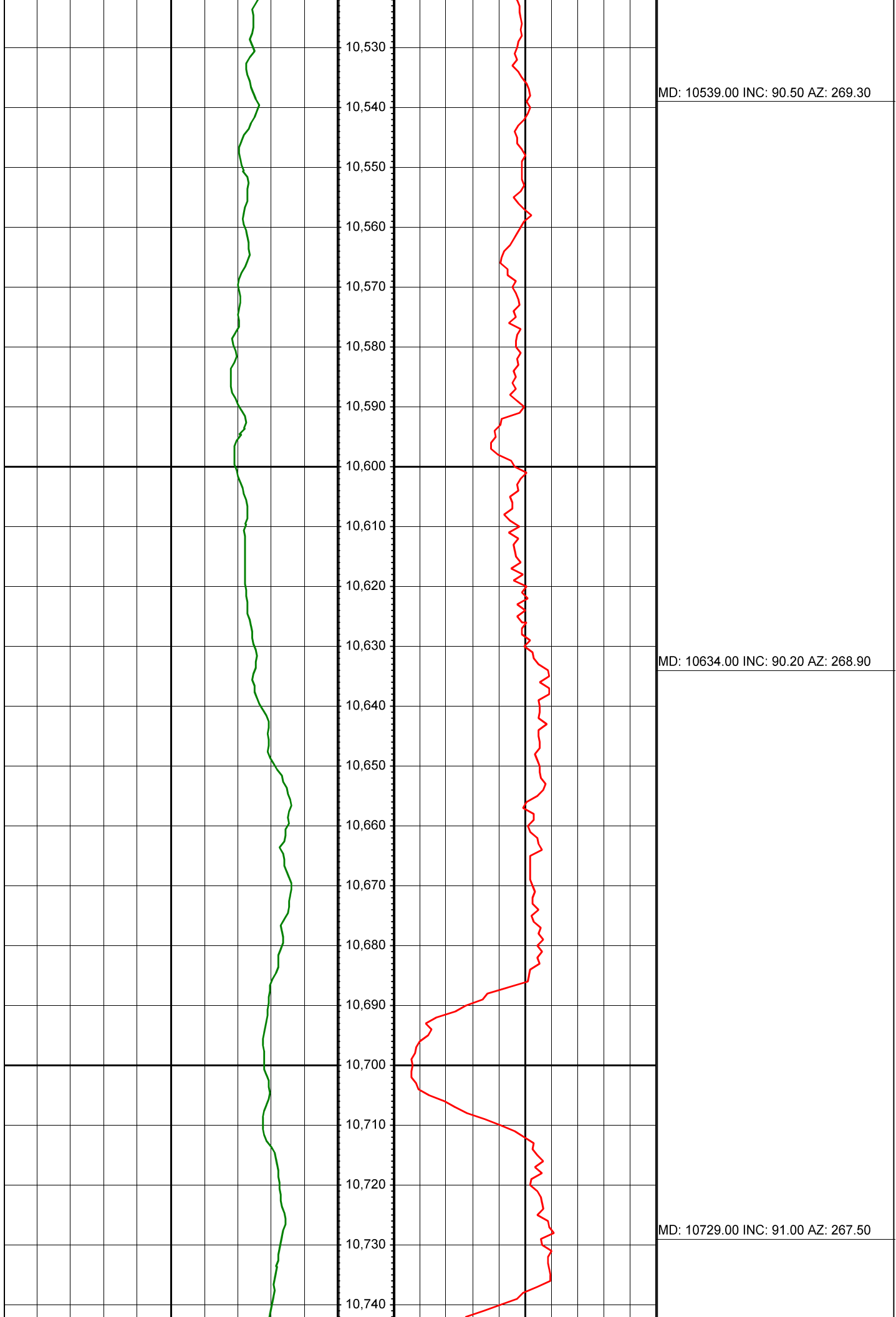














MD: 10823.00 INC: 91.70 AZ: 268.00

MD: 10918.00 INC: 91.60 AZ: 269.60

