



Cathedral Energy Services  
1949 N. Pyrite Road  
Casper, WY 82604

**135362**

5":100' - MD

8/26/2013 9:48:47 AM

**Oper. Company:** Whiting Oil and Gas

**Country:** U.S.A.

**State / Province:** Colorado

**County / Parish:** Weld

**Started:** 08/20/2013 04:00 PM

**API/UWI:** 05-123-37708

**Field:** DJ Basin

**Well:** Razor 27K-3406B

**Rig:** Cade 23

**Ended:**

Gamma Log

Section Plane: 180.43

Magnetic North: 8.15

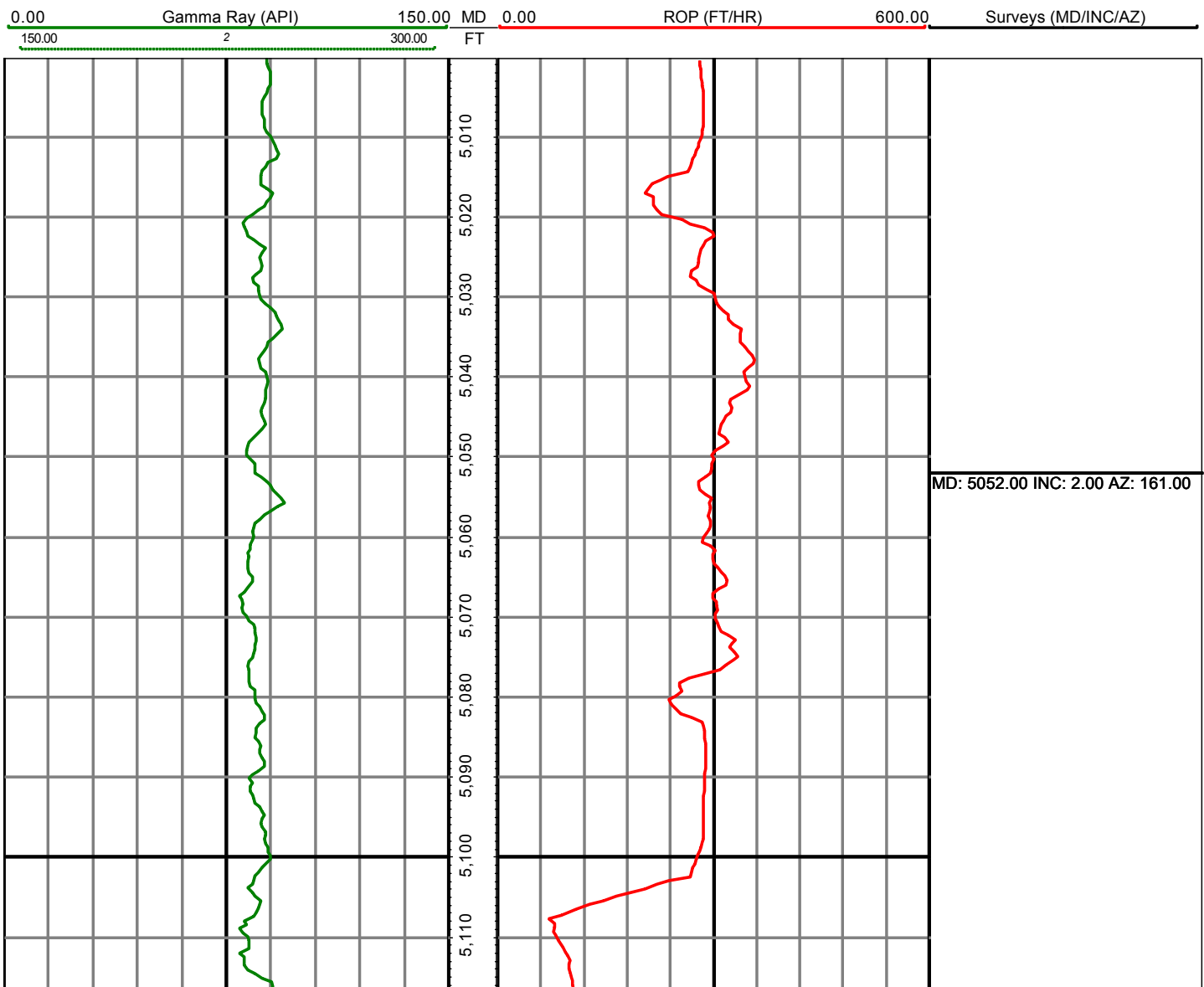
Gamma Attenuation Factor:

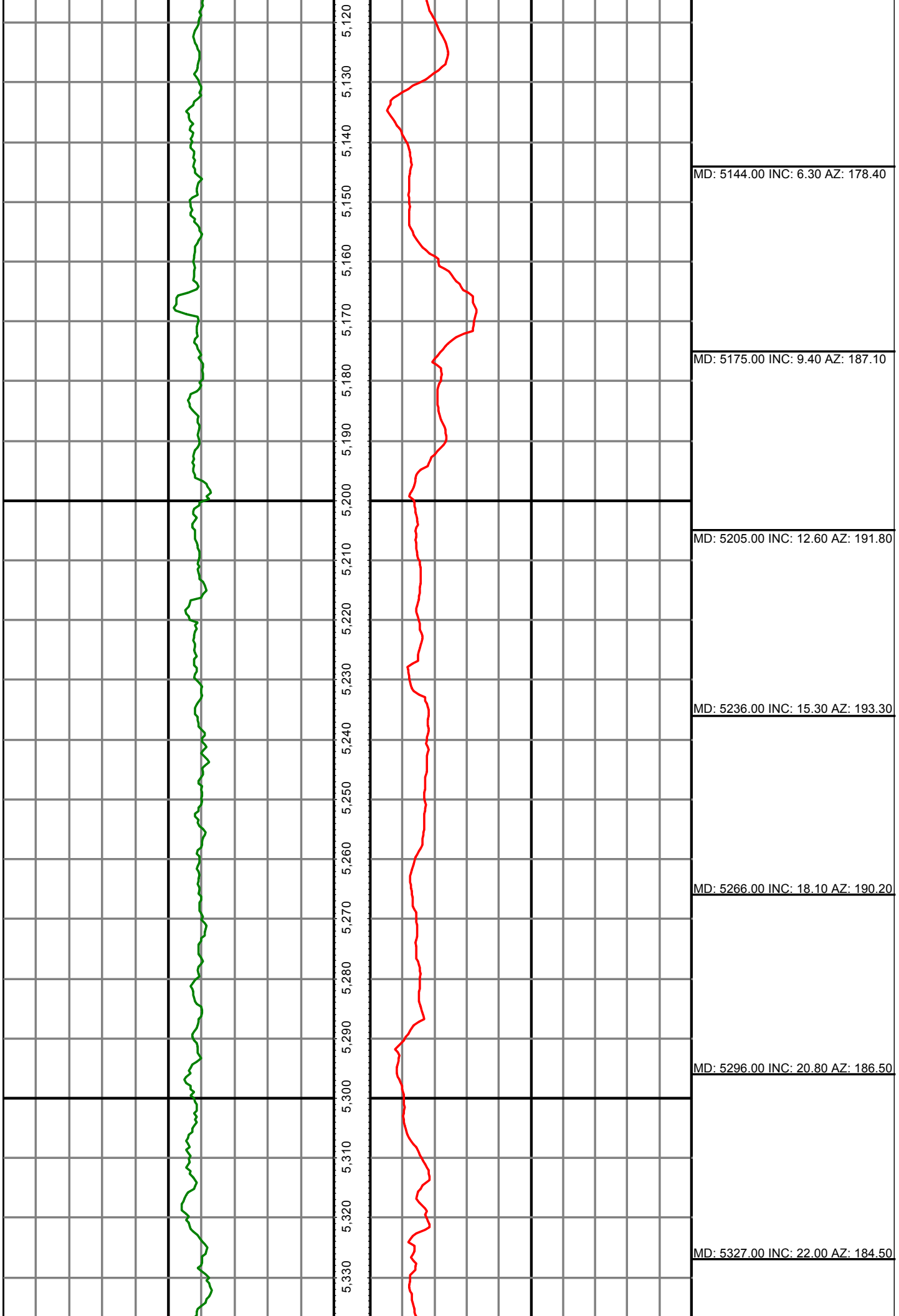
5,000' - 6,340' - 3.55

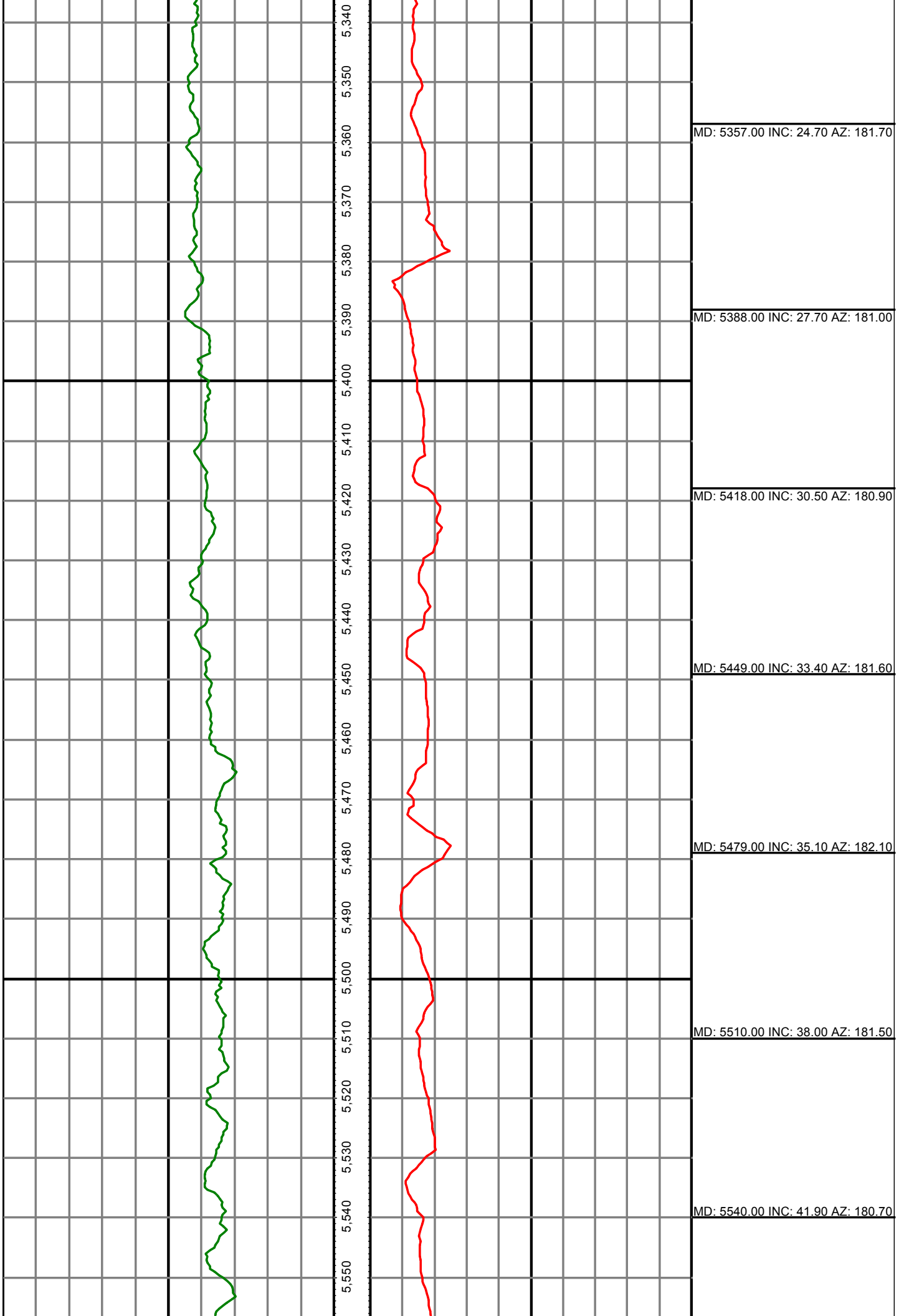
6,340' - Current - 3.11

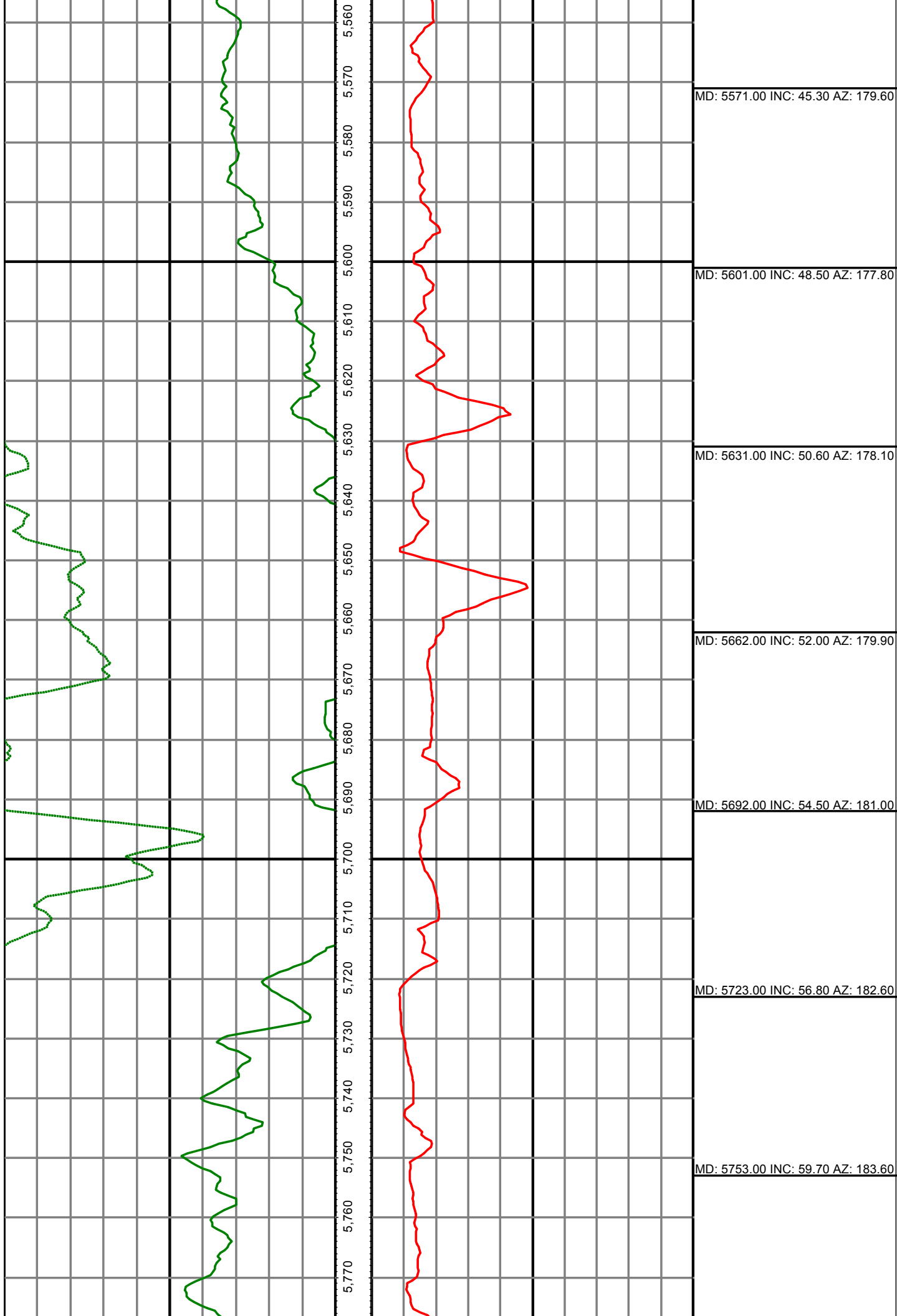
Gamma Averaging: 7%

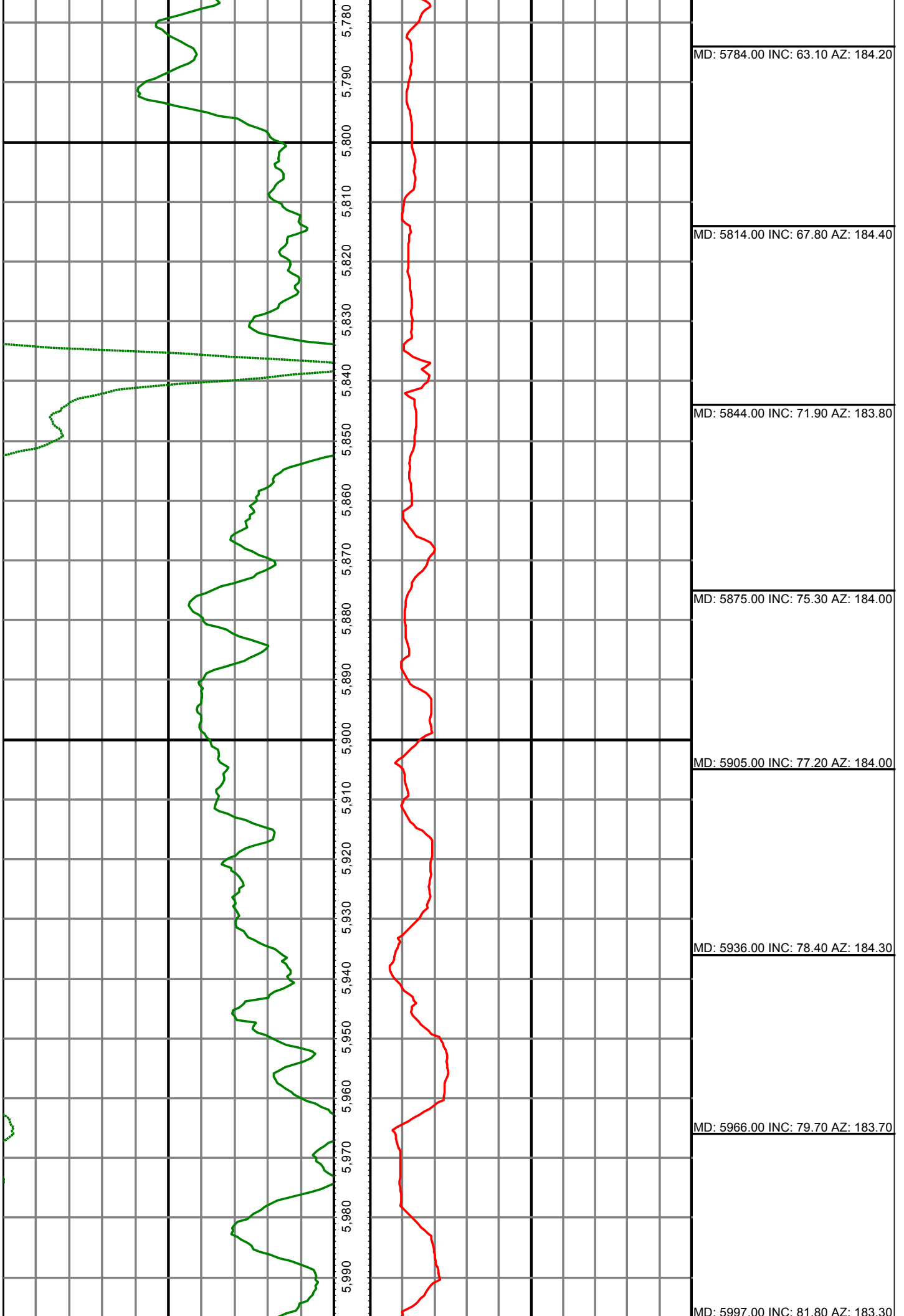
*All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost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

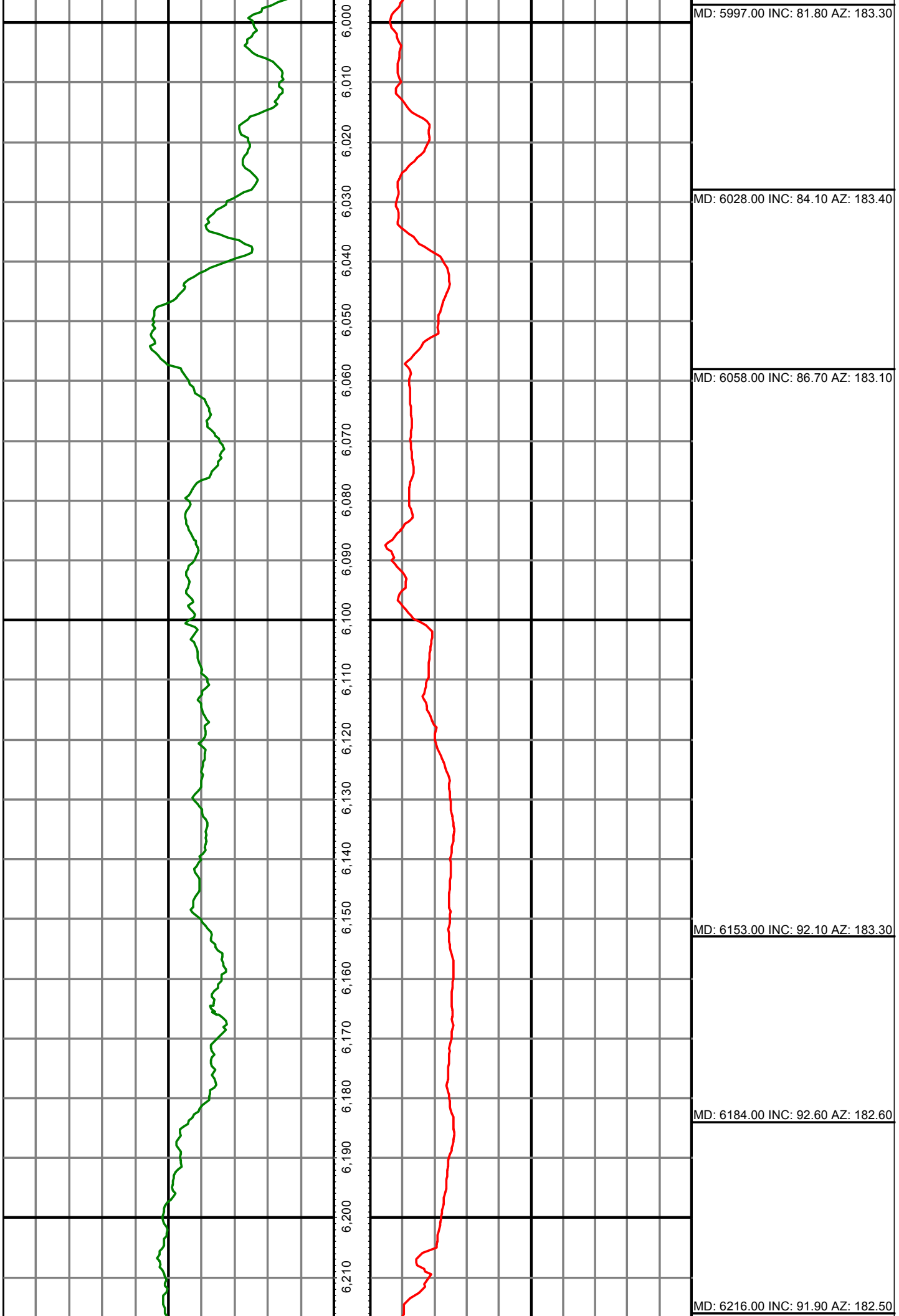


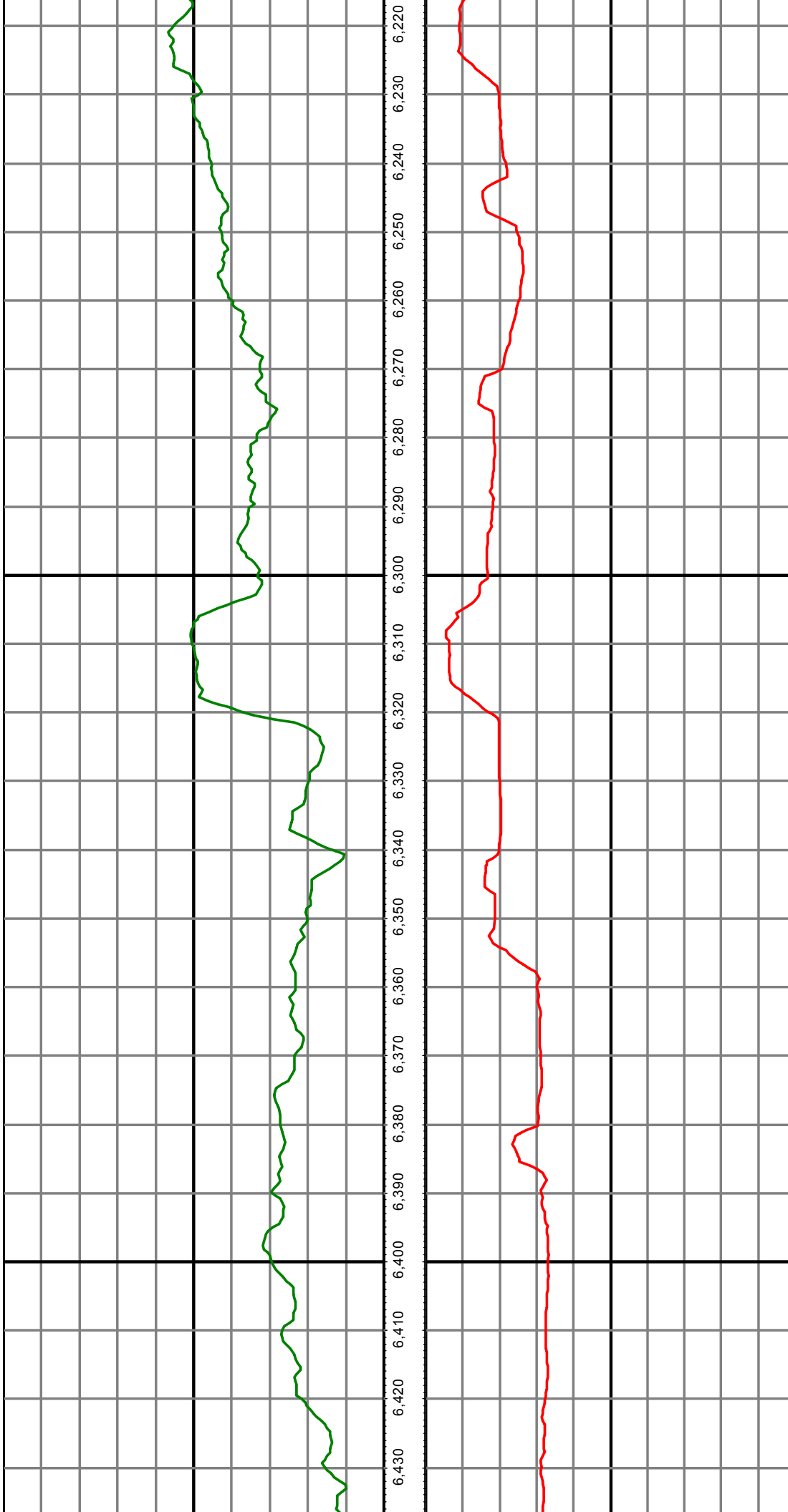










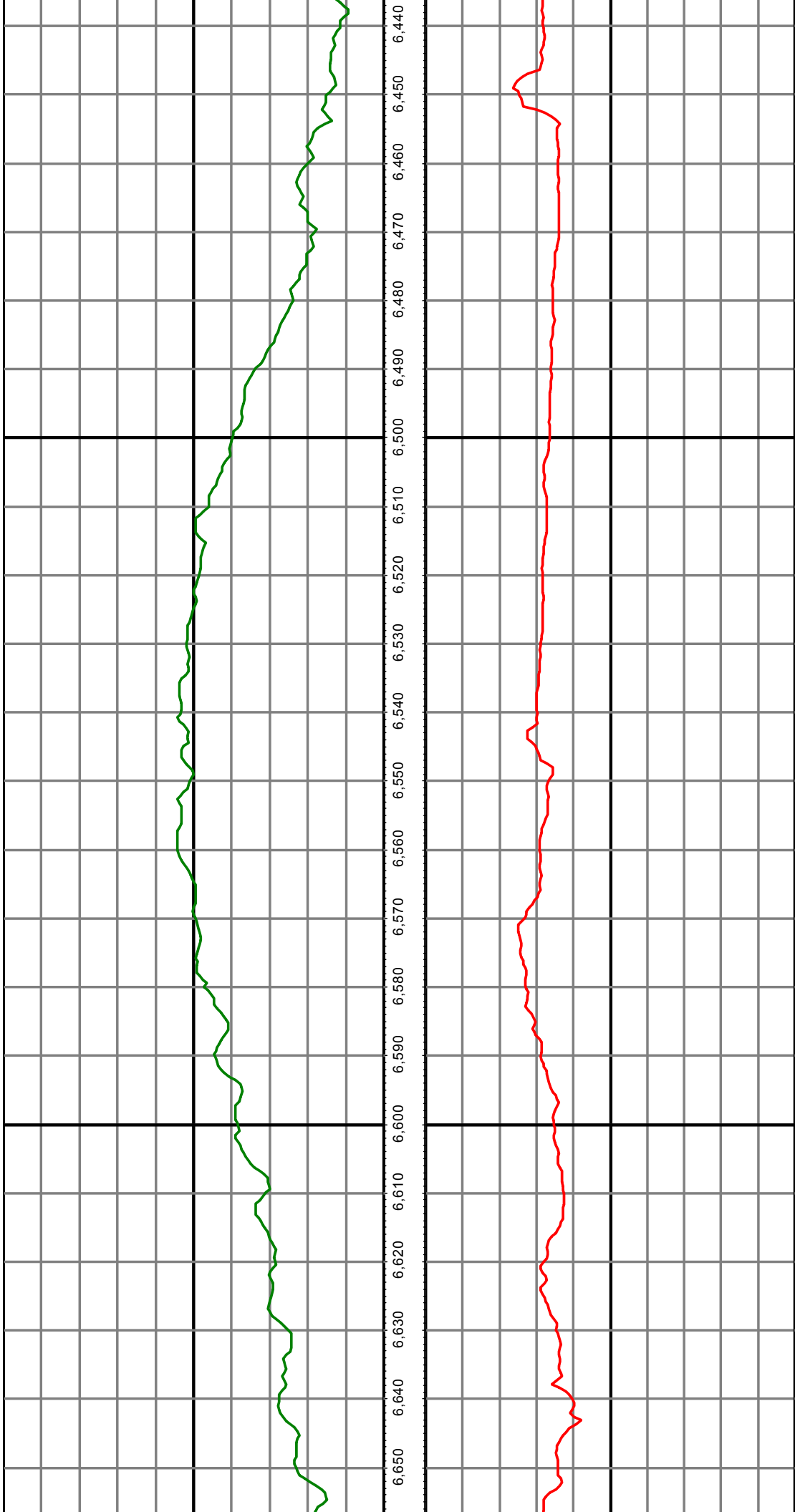


MD: 6216.00 INC: 91.90 AZ: 182.50

MD: 6248.00 INC: 91.60 AZ: 182.70

MD: 6288.00 INC: 92.00 AZ: 181.80

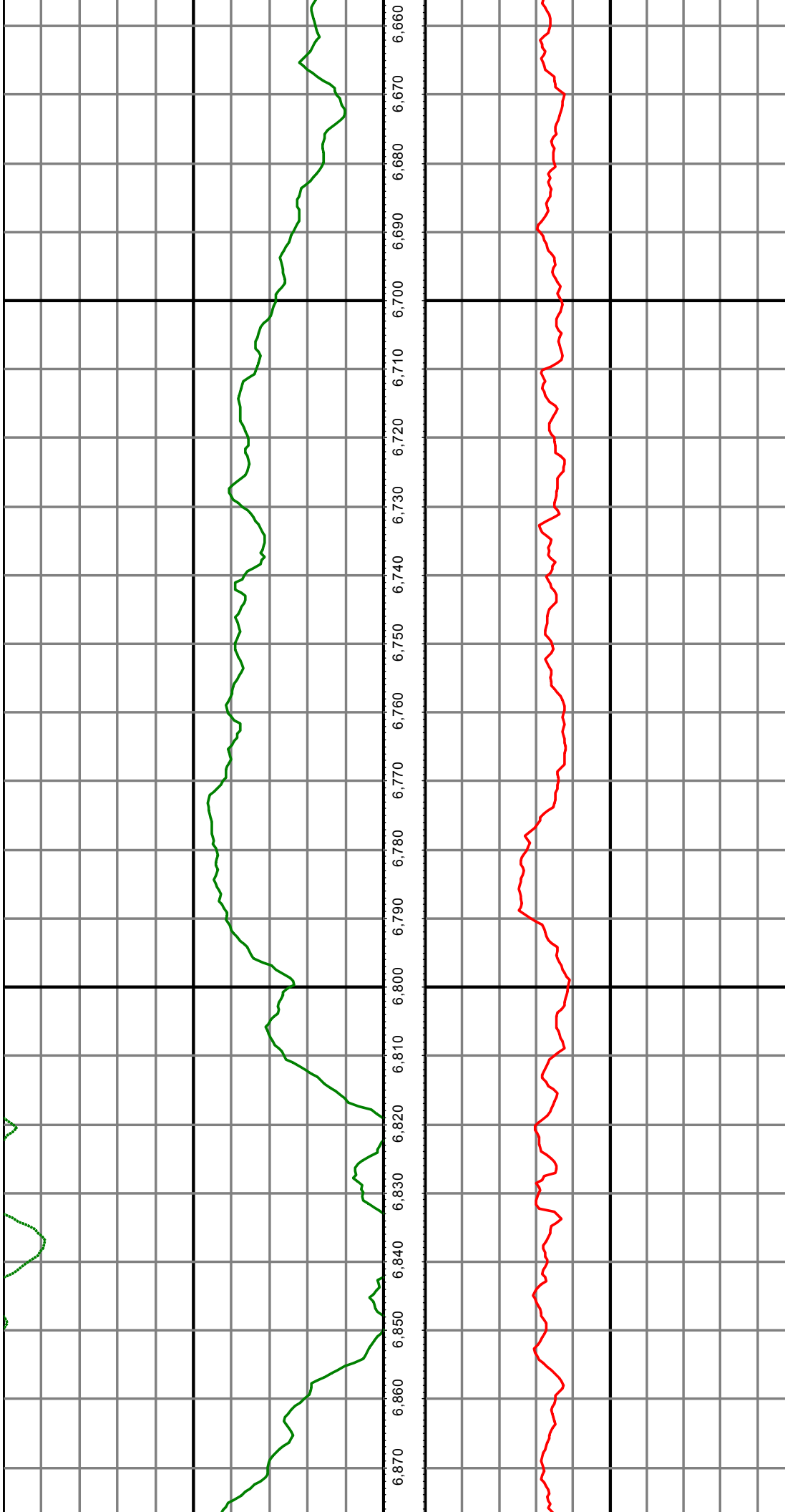
MD: 6394.00 INC: 90.10 AZ: 182.00



MD: 6489.00 INC: 89.80 AZ: 181.40

MD: 6584.00 INC: 89.40 AZ: 181.00

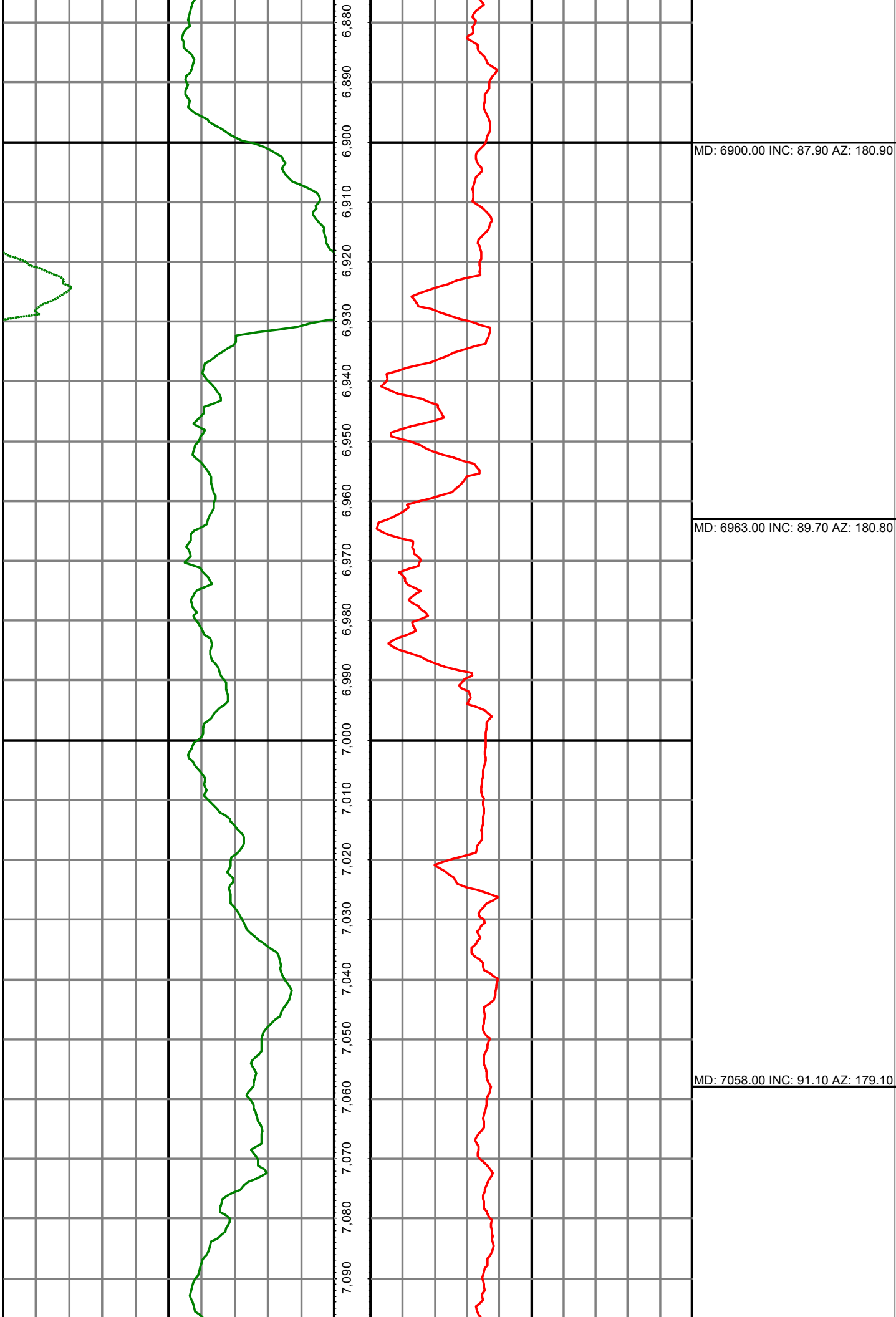


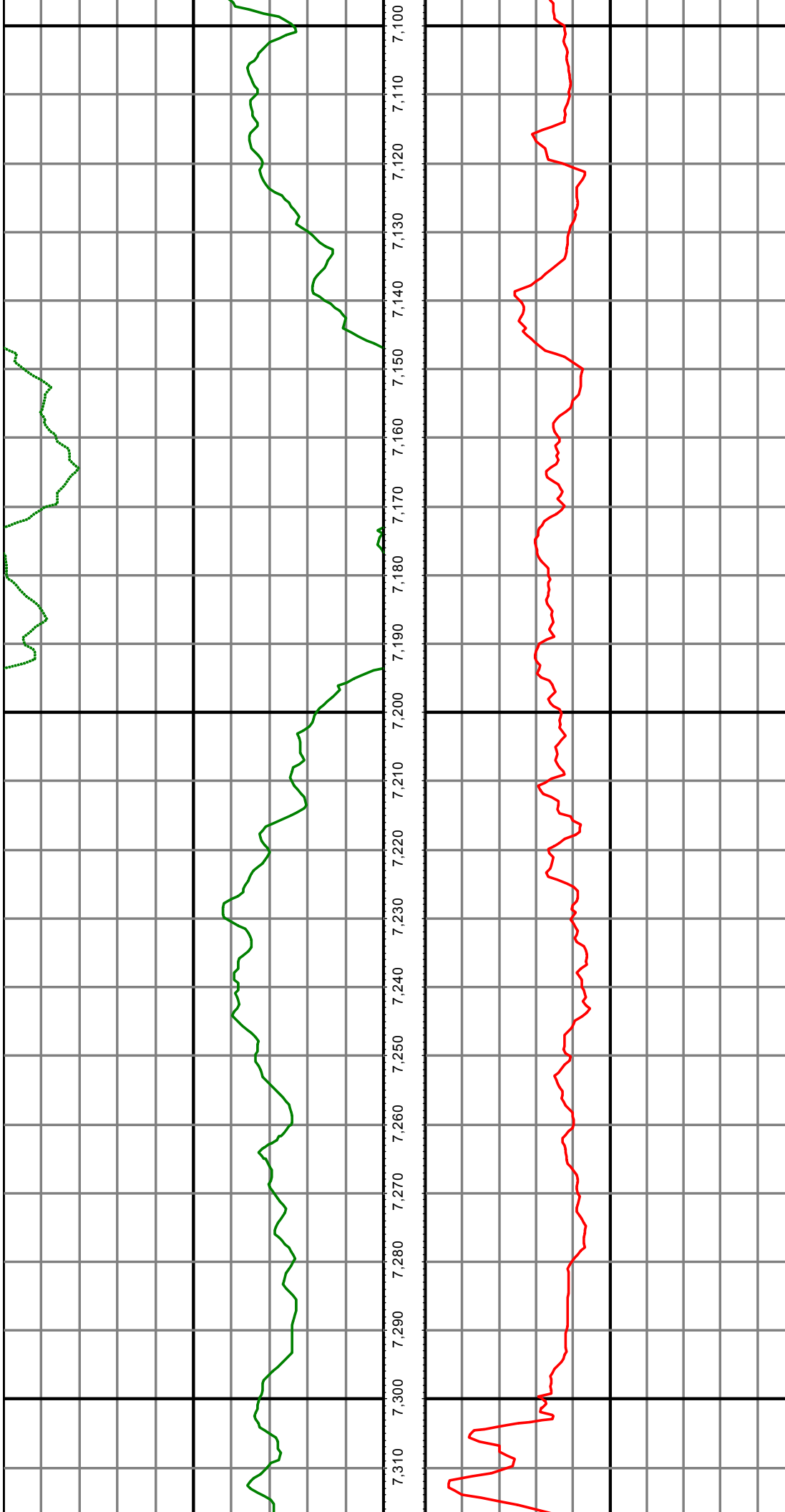


MD: 6678.00 INC: 89.10 AZ: 180.80

MD: 6773.00 INC: 89.20 AZ: 180.30

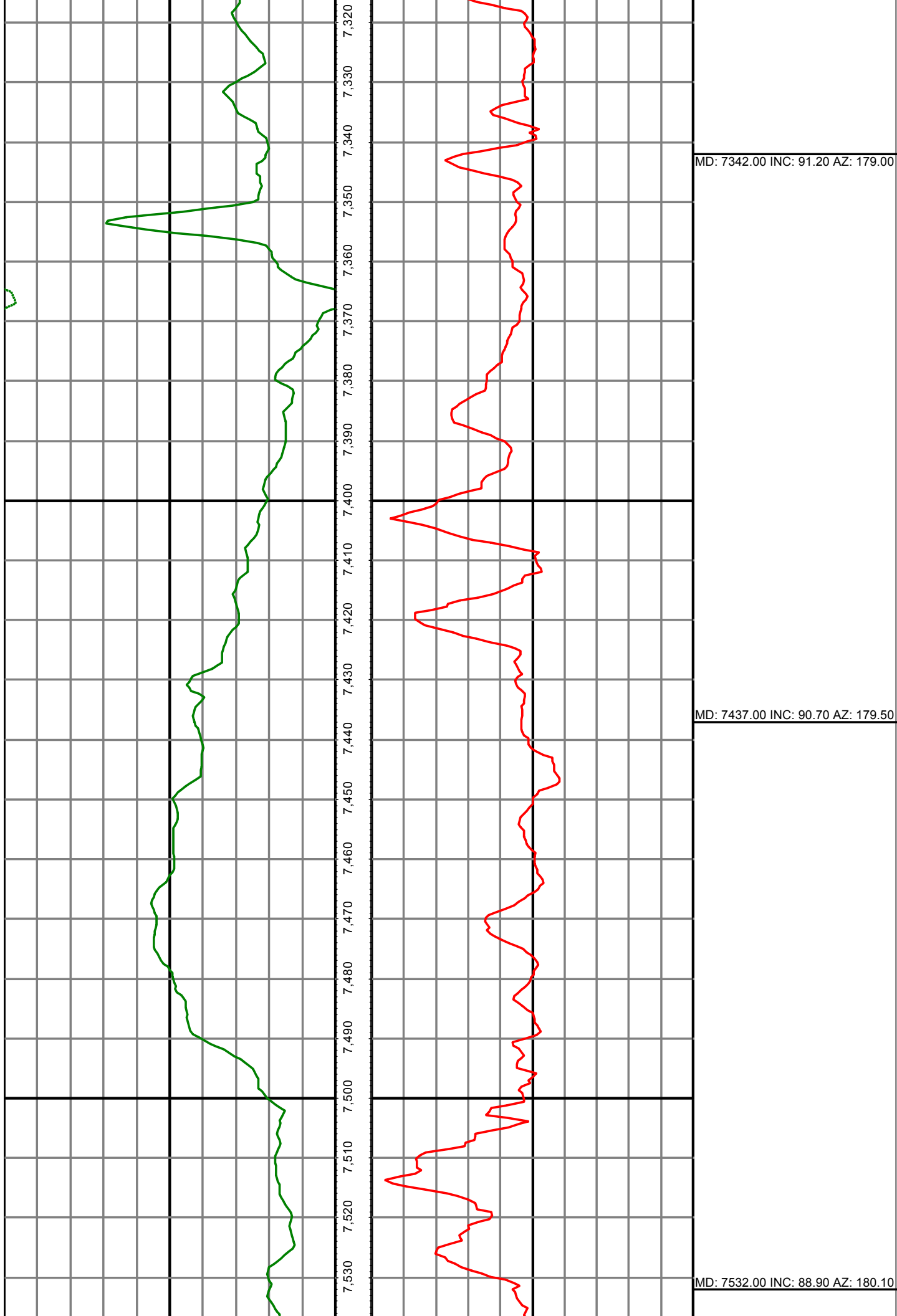
MD: 6868.00 INC: 88.10 AZ: 180.90

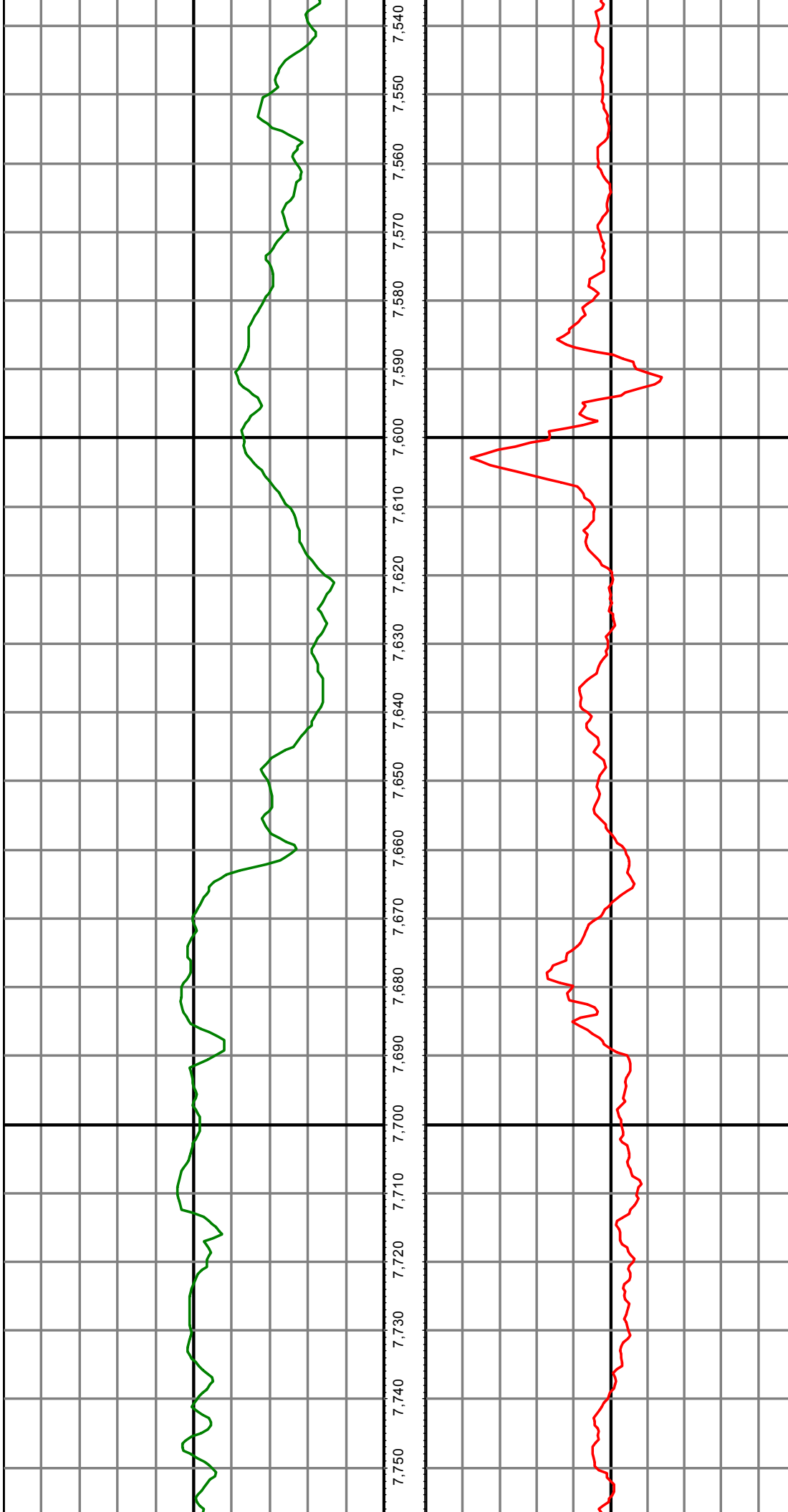




MD: 7152.00 INC: 91.30 AZ: 179.40

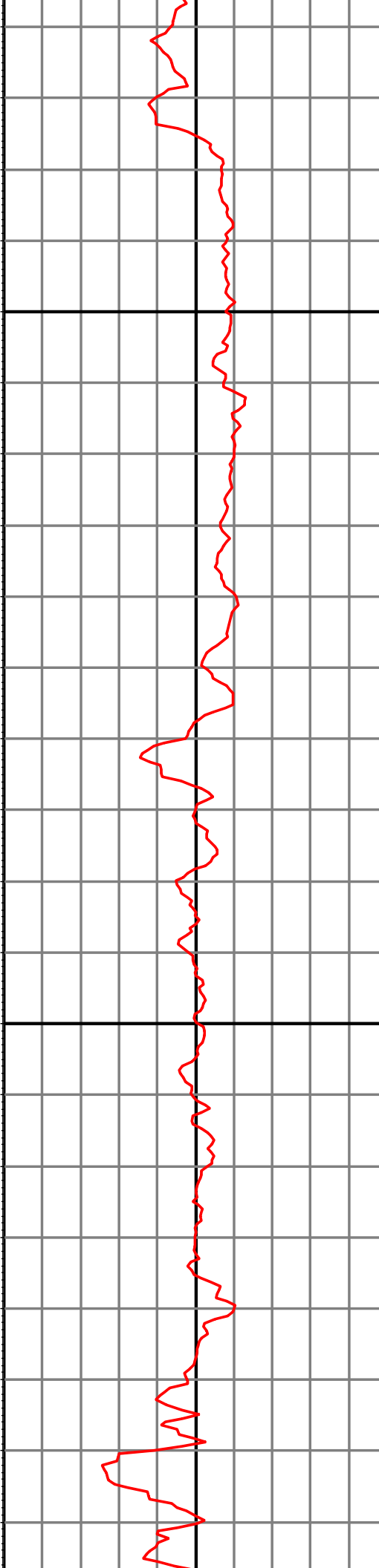
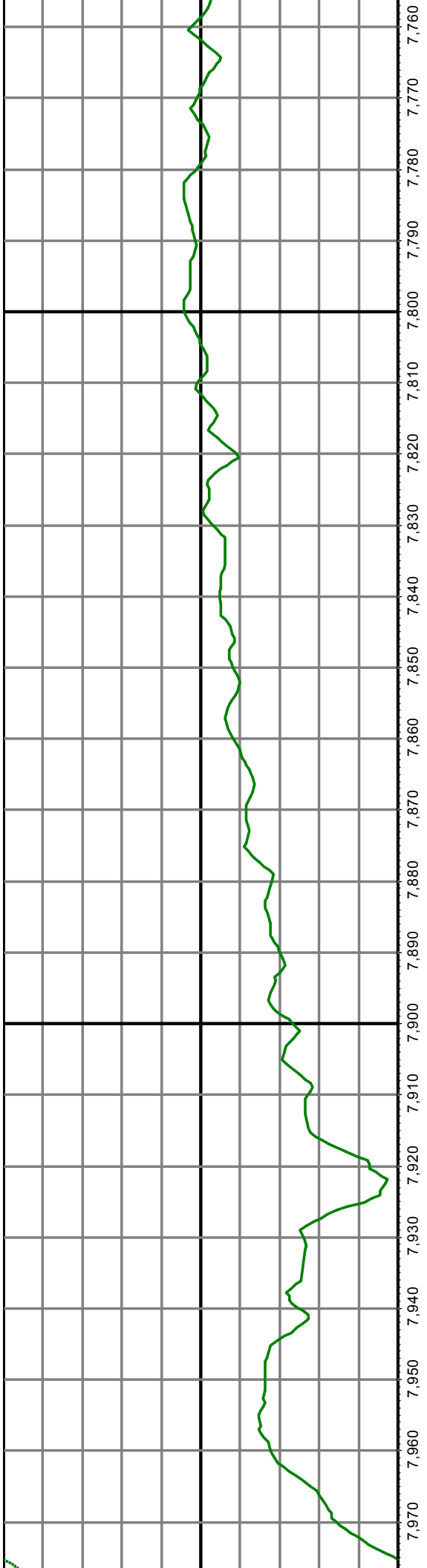
MD: 7247.00 INC: 90.80 AZ: 177.30





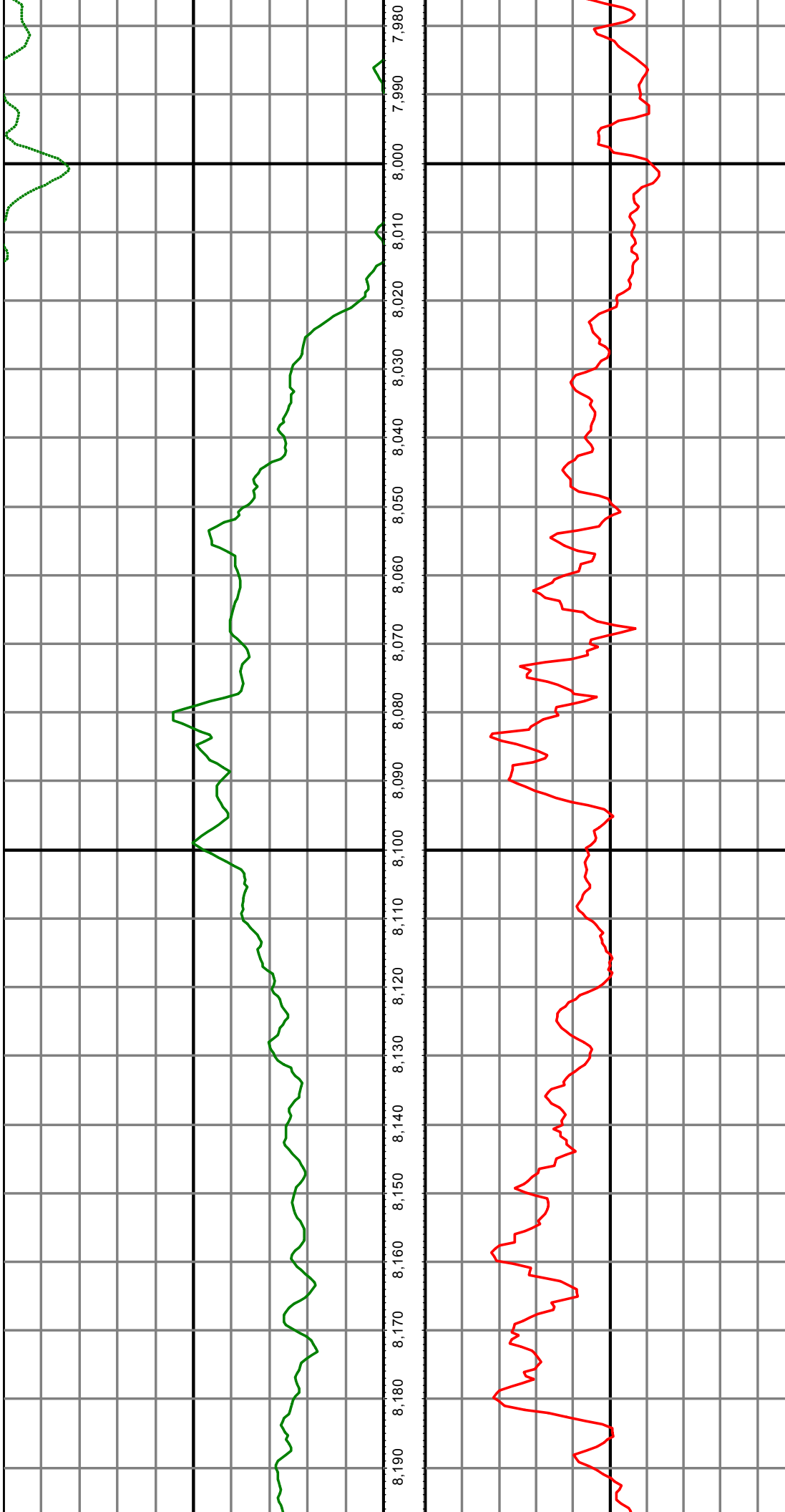
MD: 7624.00 INC: 90.50 AZ: 181.70

MD: 7715.00 INC: 90.20 AZ: 181.70



MD: 7807.00 INC: 89.50 AZ: 181.60

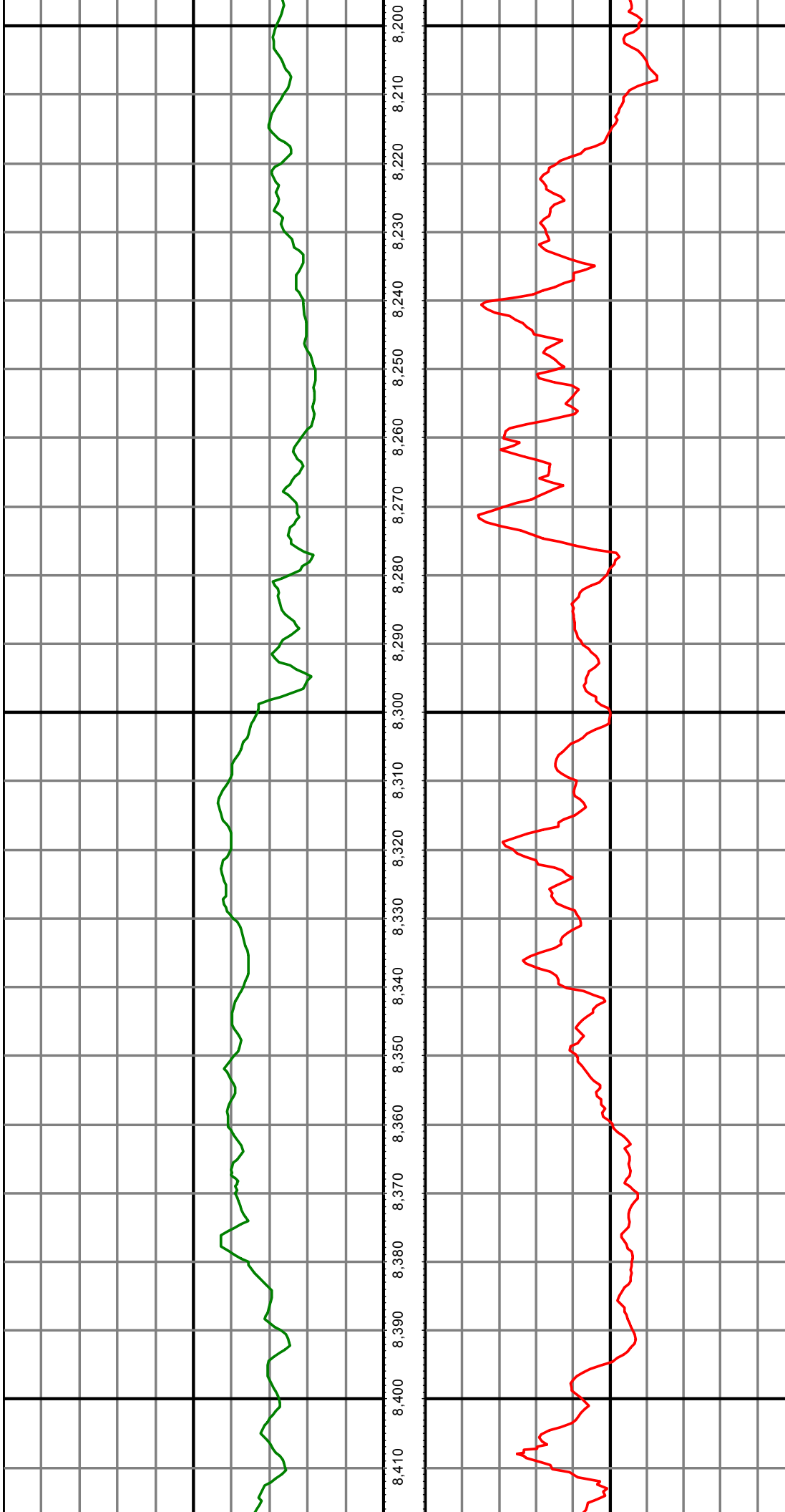
MD: 7898.00 INC: 88.30 AZ: 180.60



MD: 7989.00 INC: 88.40 AZ: 180.70

MD: 8081.00 INC: 89.50 AZ: 181.60

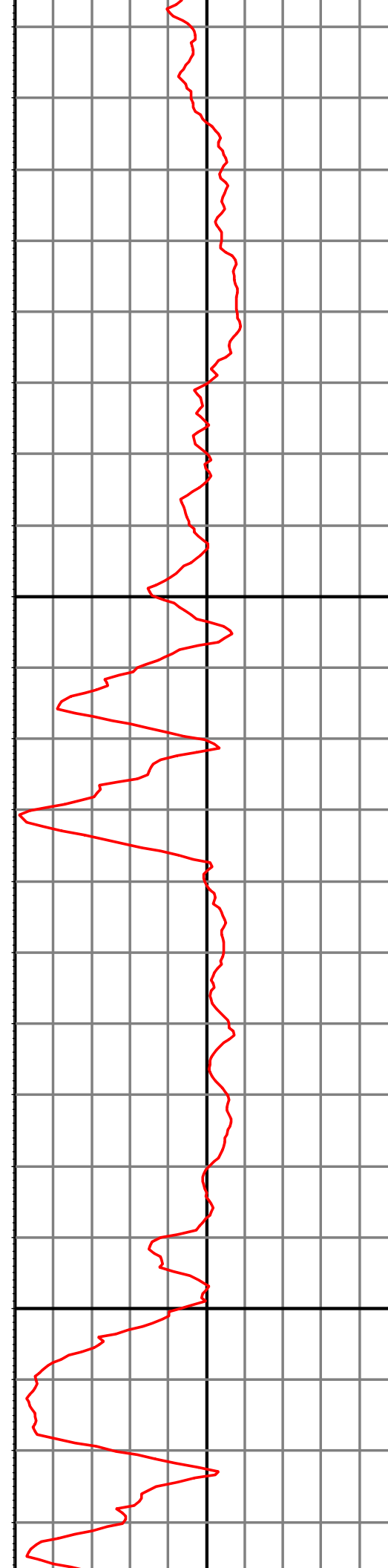
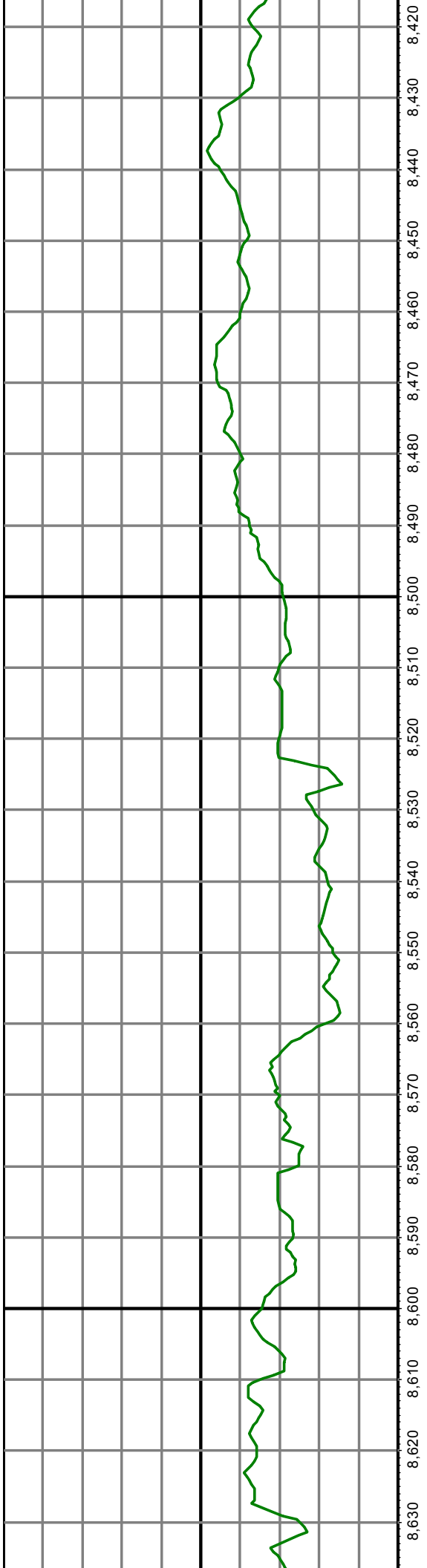
MD: 8172.00 INC: 90.30 AZ: 181.80



MD: 8263.00 INC: 90.90 AZ: 180.60

MD: 8354.00 INC: 90.60 AZ: 179.60

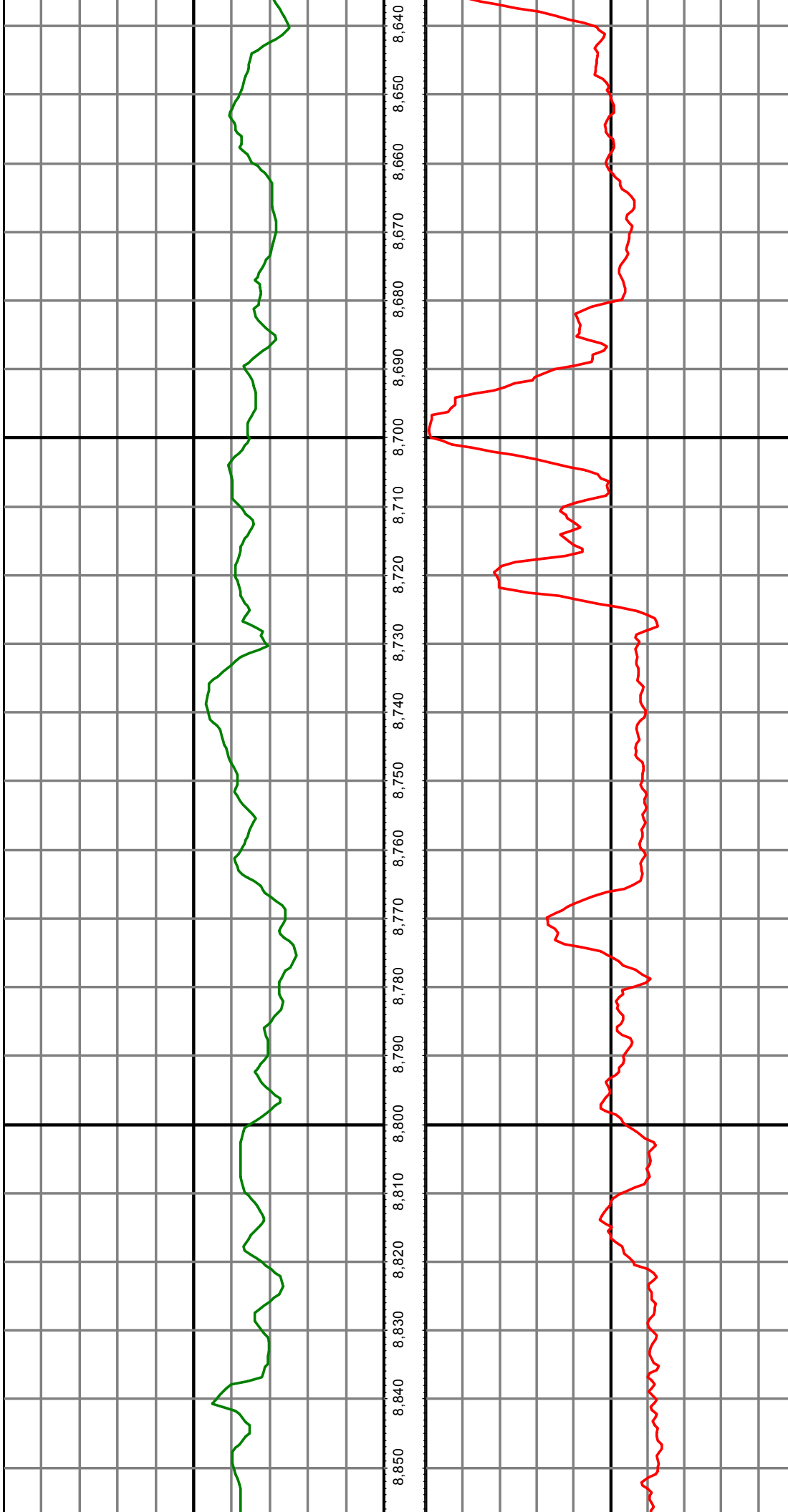




MD: 8445.00 INC: 89.30 AZ: 179.40

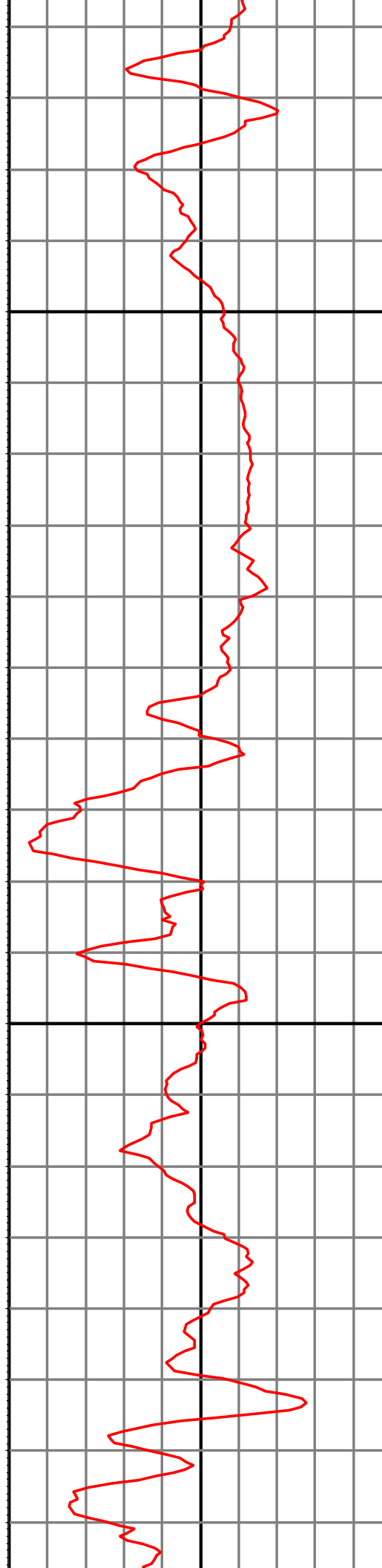
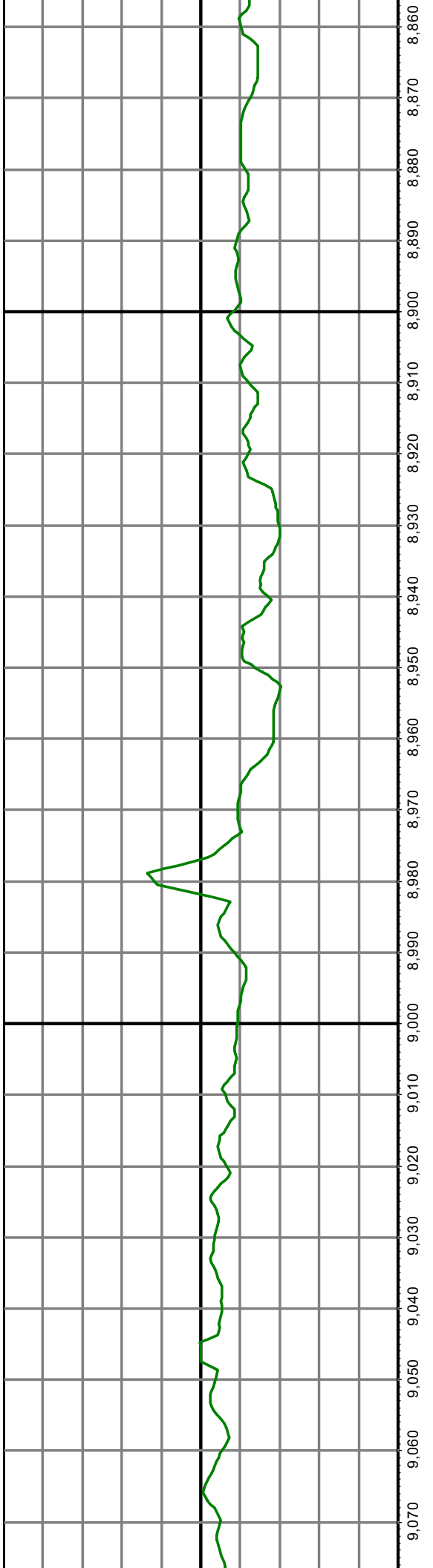
MD: 8536.00 INC: 89.20 AZ: 179.40

MD: 8628.00 INC: 89.00 AZ: 182.00



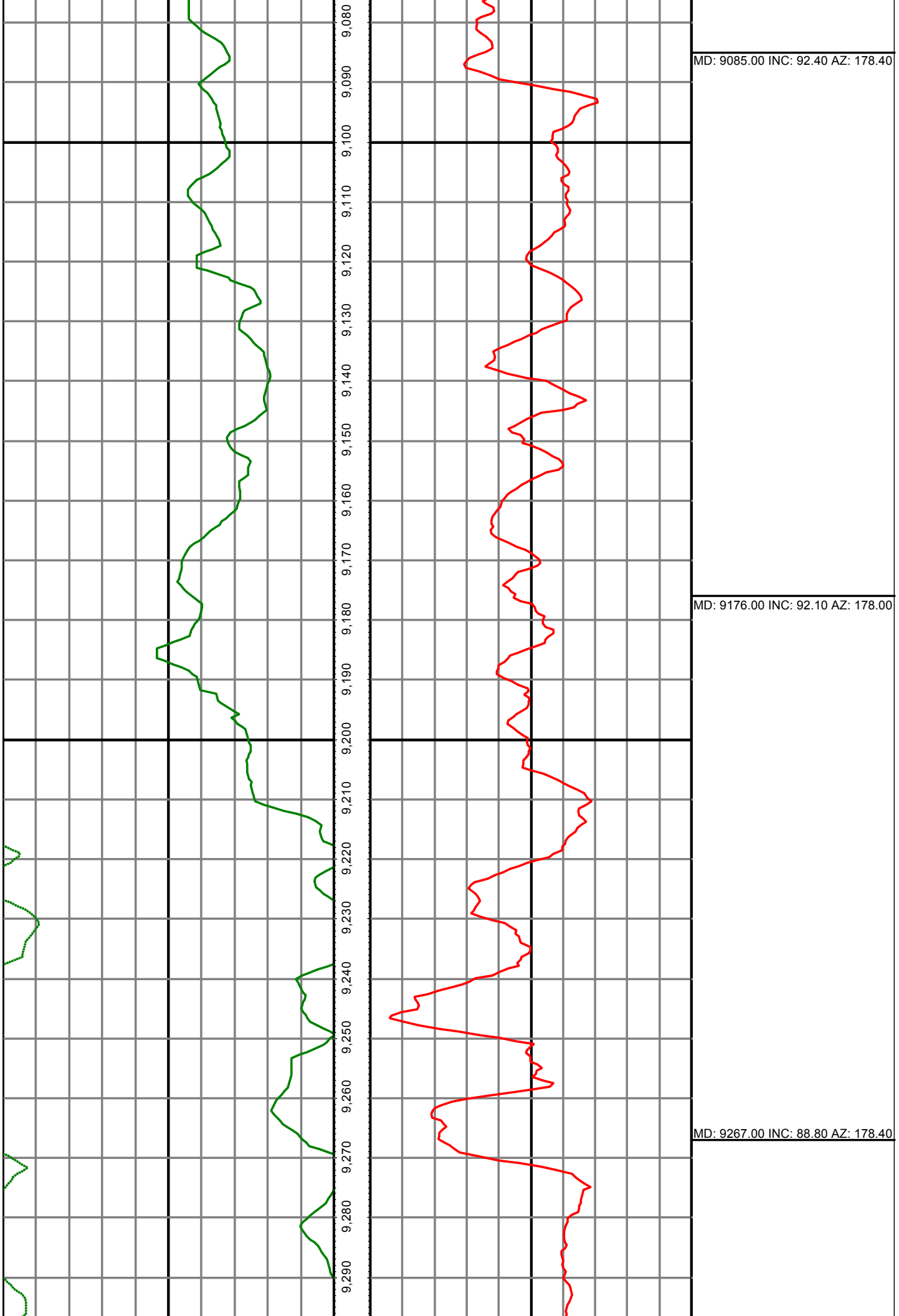
MD: 8719.00 INC: 90.00 AZ: 181.70

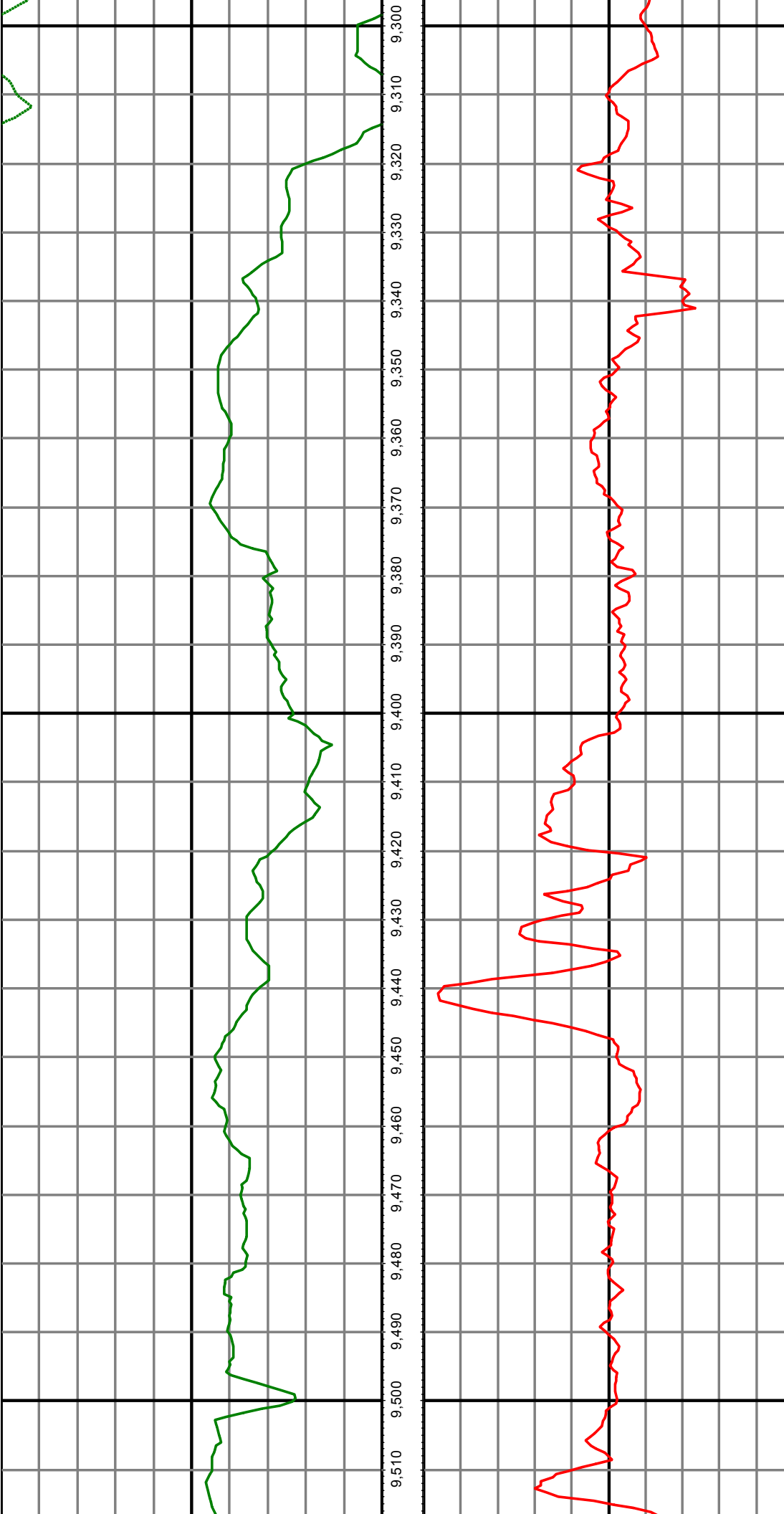
MD: 8810.00 INC: 90.50 AZ: 181.10



MD: 8902.00 INC: 89.20 AZ: 180.40

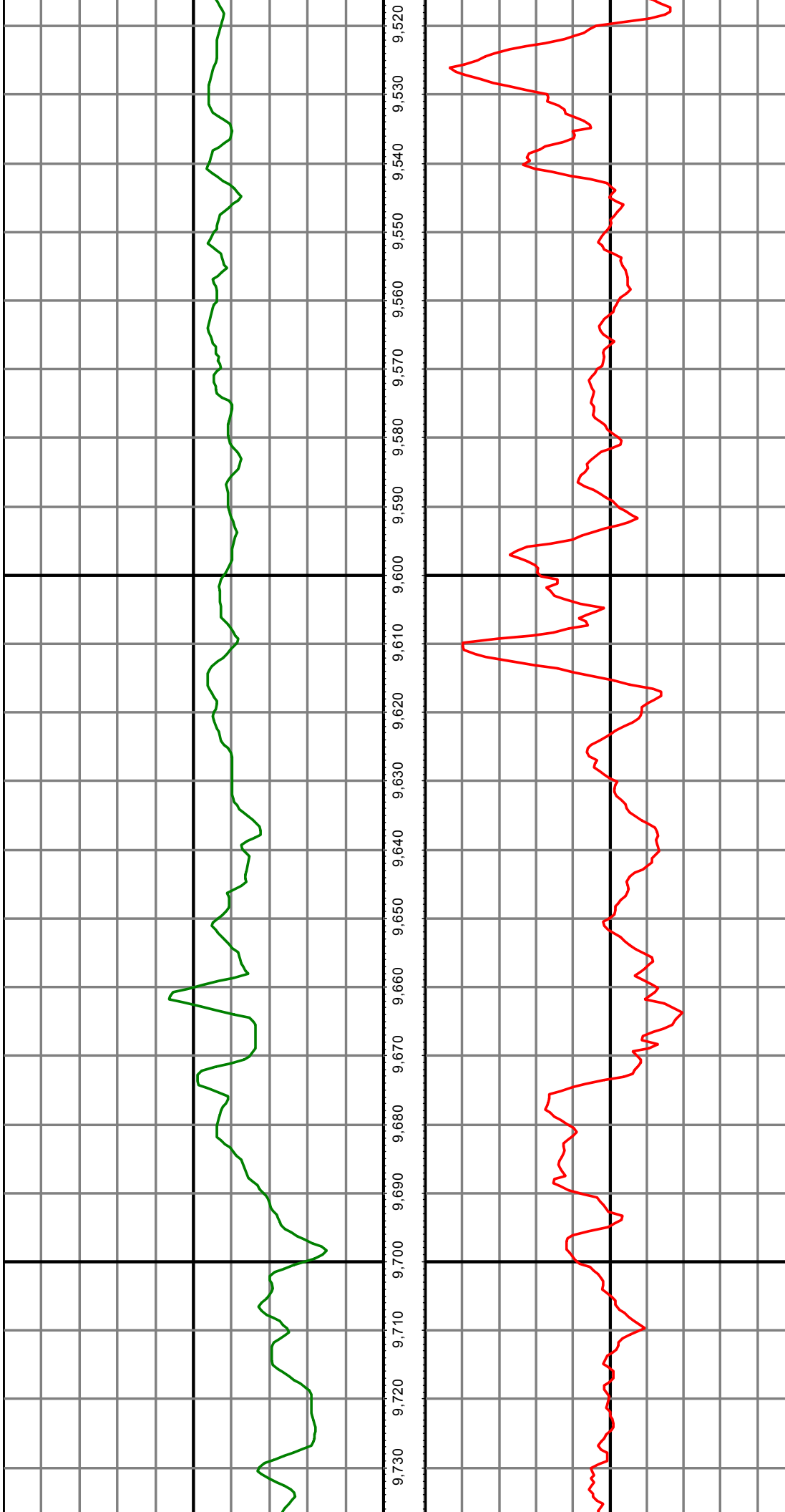
MD: 8993.00 INC: 89.80 AZ: 179.10





MD: 9359.00 INC: 88.50 AZ: 178.40

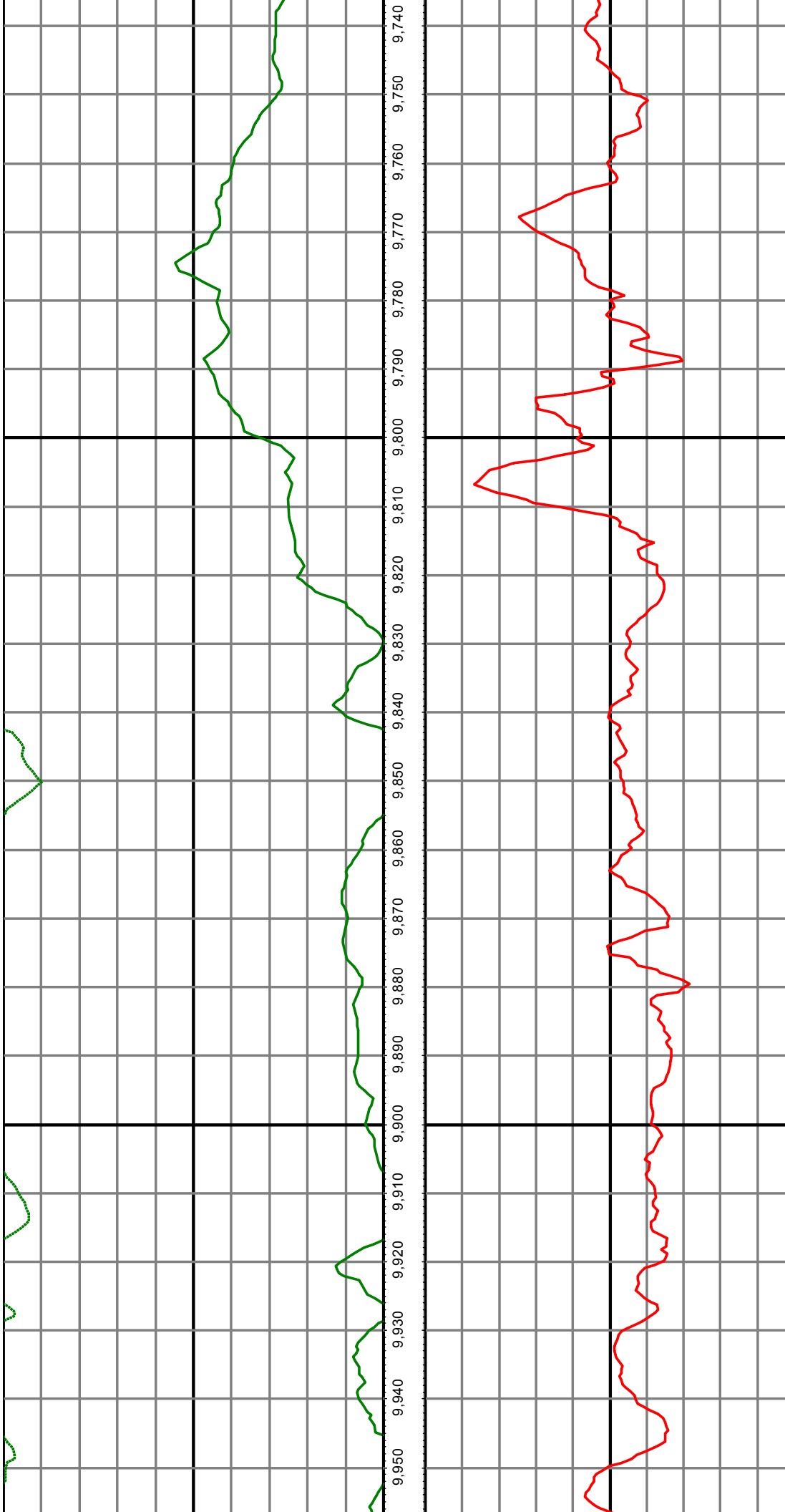
MD: 9451.00 INC: 89.20 AZ: 178.80



MD: 9542.00 INC: 90.00 AZ: 179.40

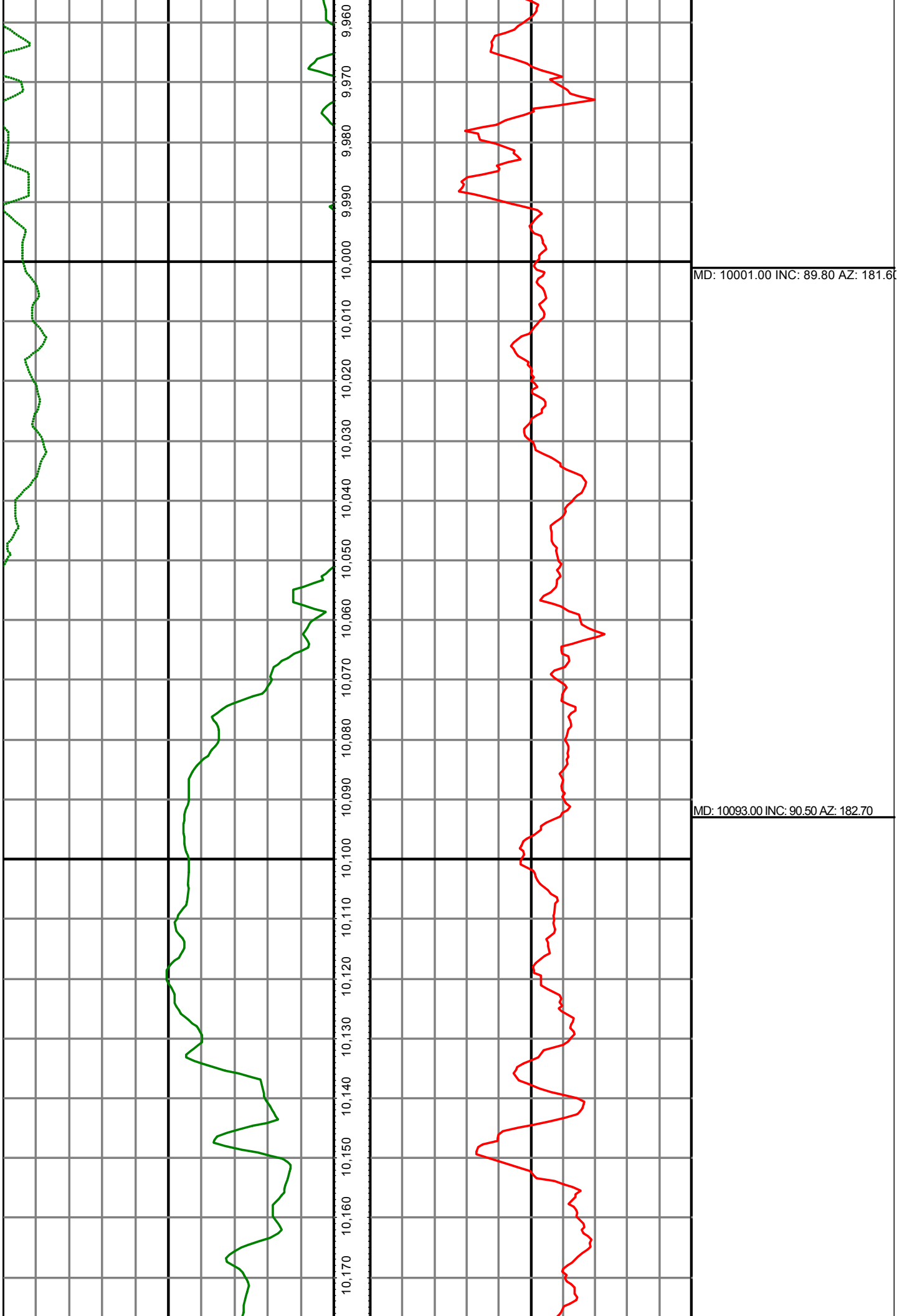
MD: 9634.00 INC: 91.40 AZ: 179.90

MD: 9726.00 INC: 91.60 AZ: 179.40

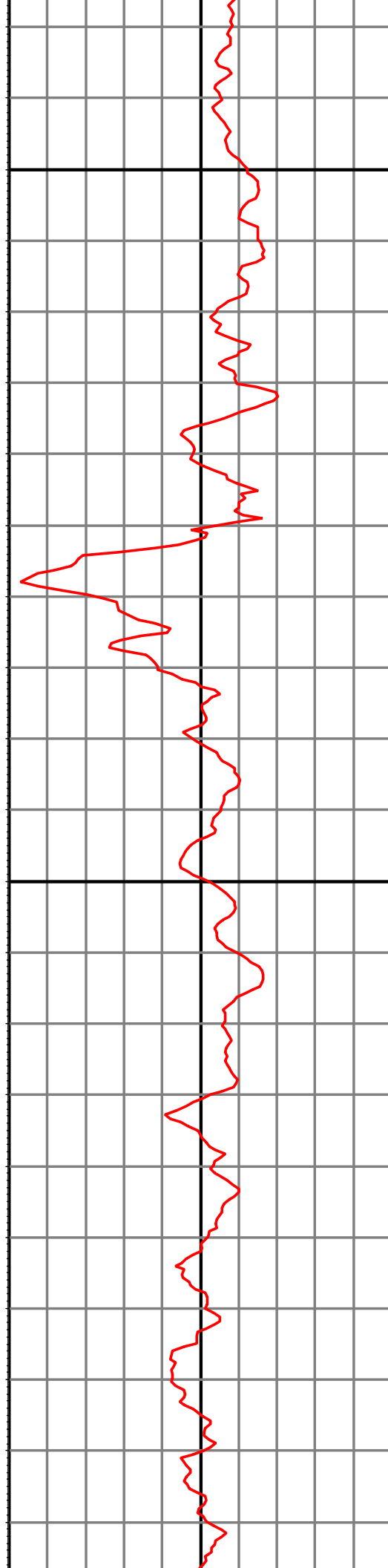
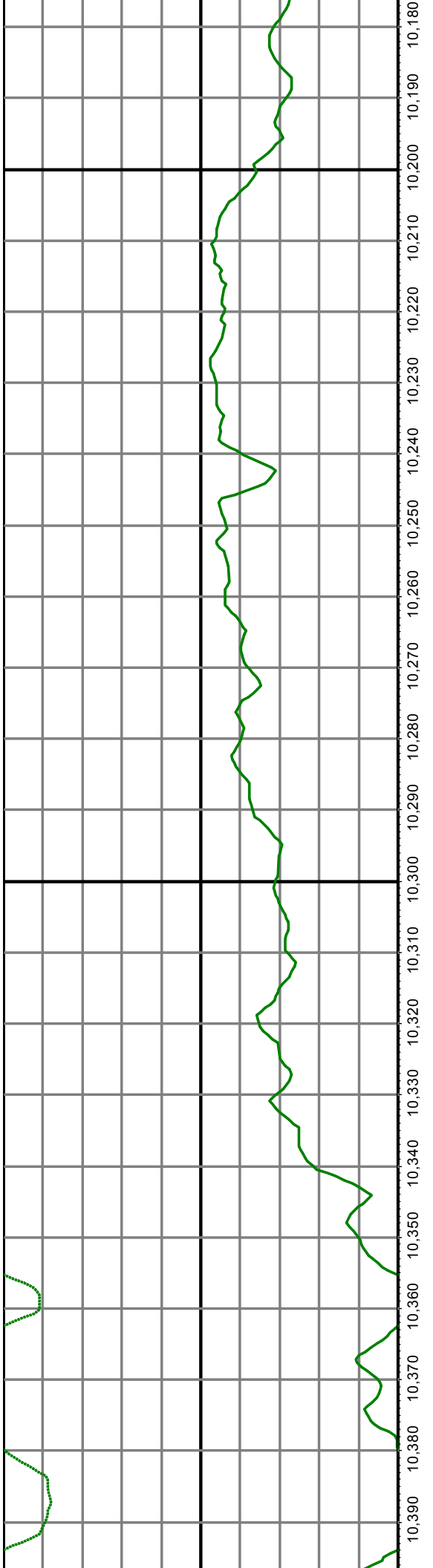


MD: 9818.00 INC: 91.10 AZ: 180.90

MD: 9909.00 INC: 90.00 AZ: 179.20



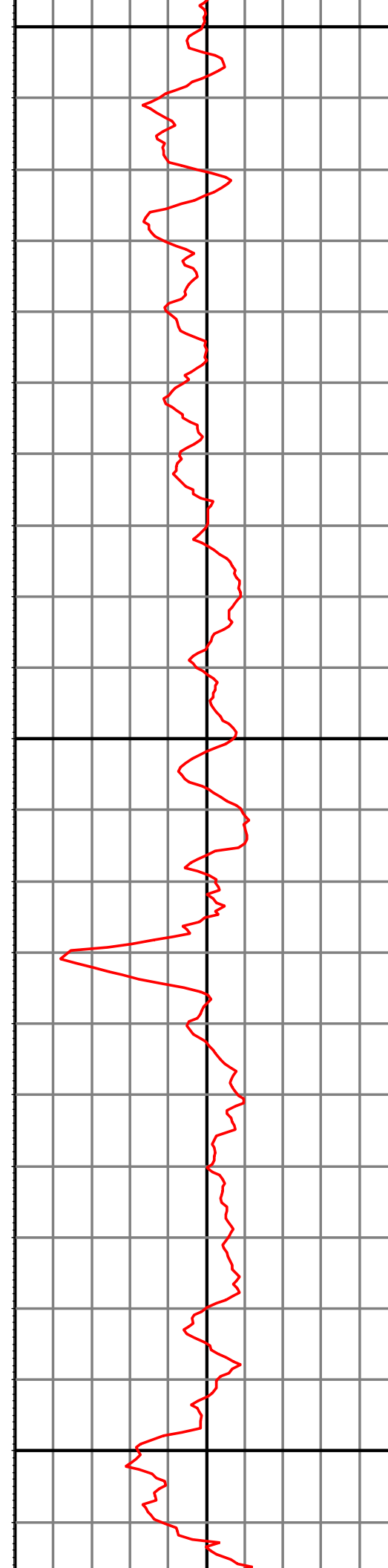
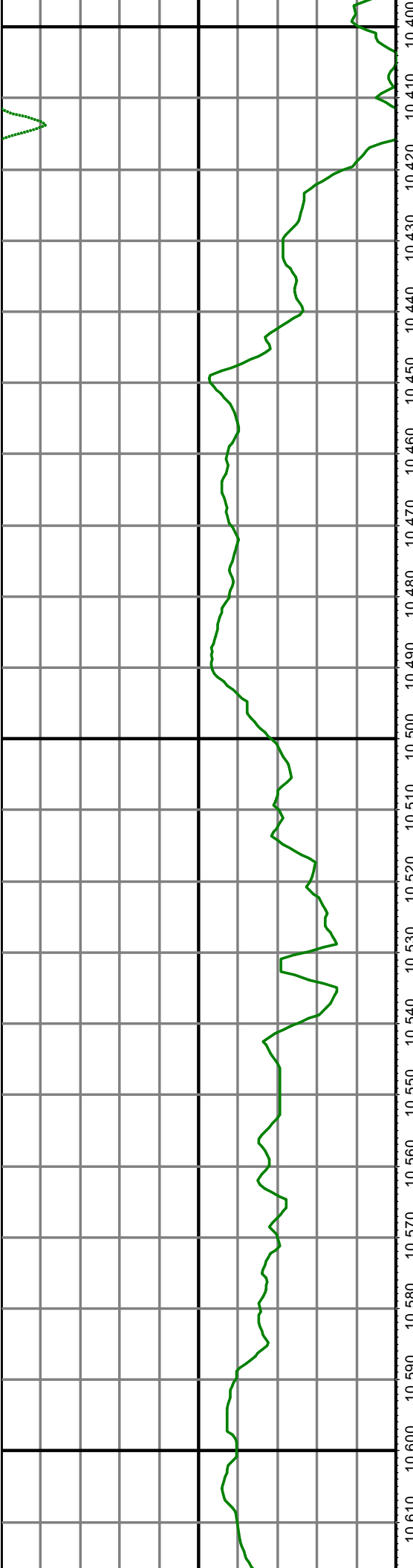




MD: 10184.00 INC: 90.50 AZ: 183.40

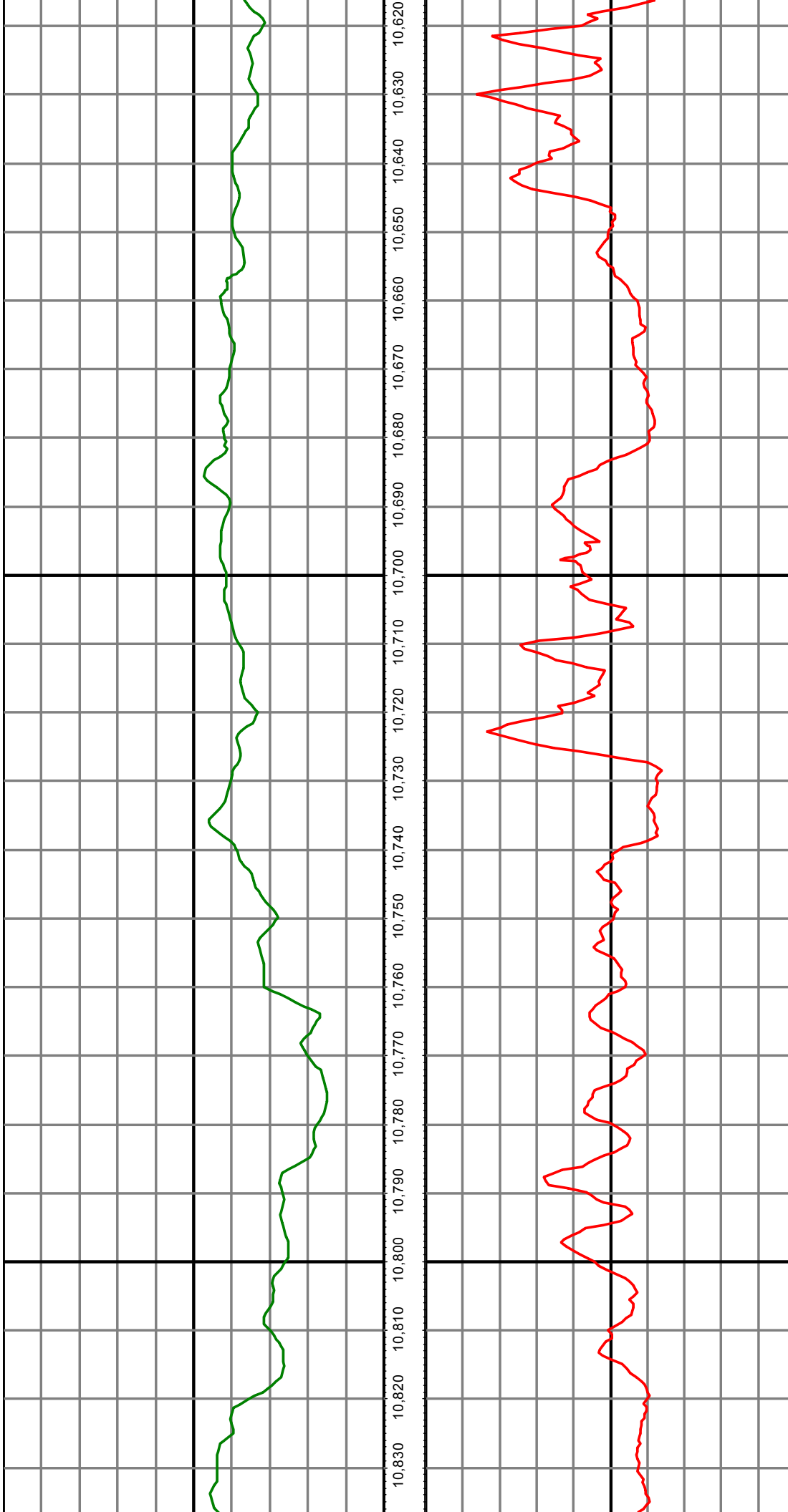
MD: 10276.00 INC: 89.80 AZ: 180.20

MD: 10367.00 INC: 88.50 AZ: 179.30



MD: 10459.00 INC: 88.40 AZ: 179.40

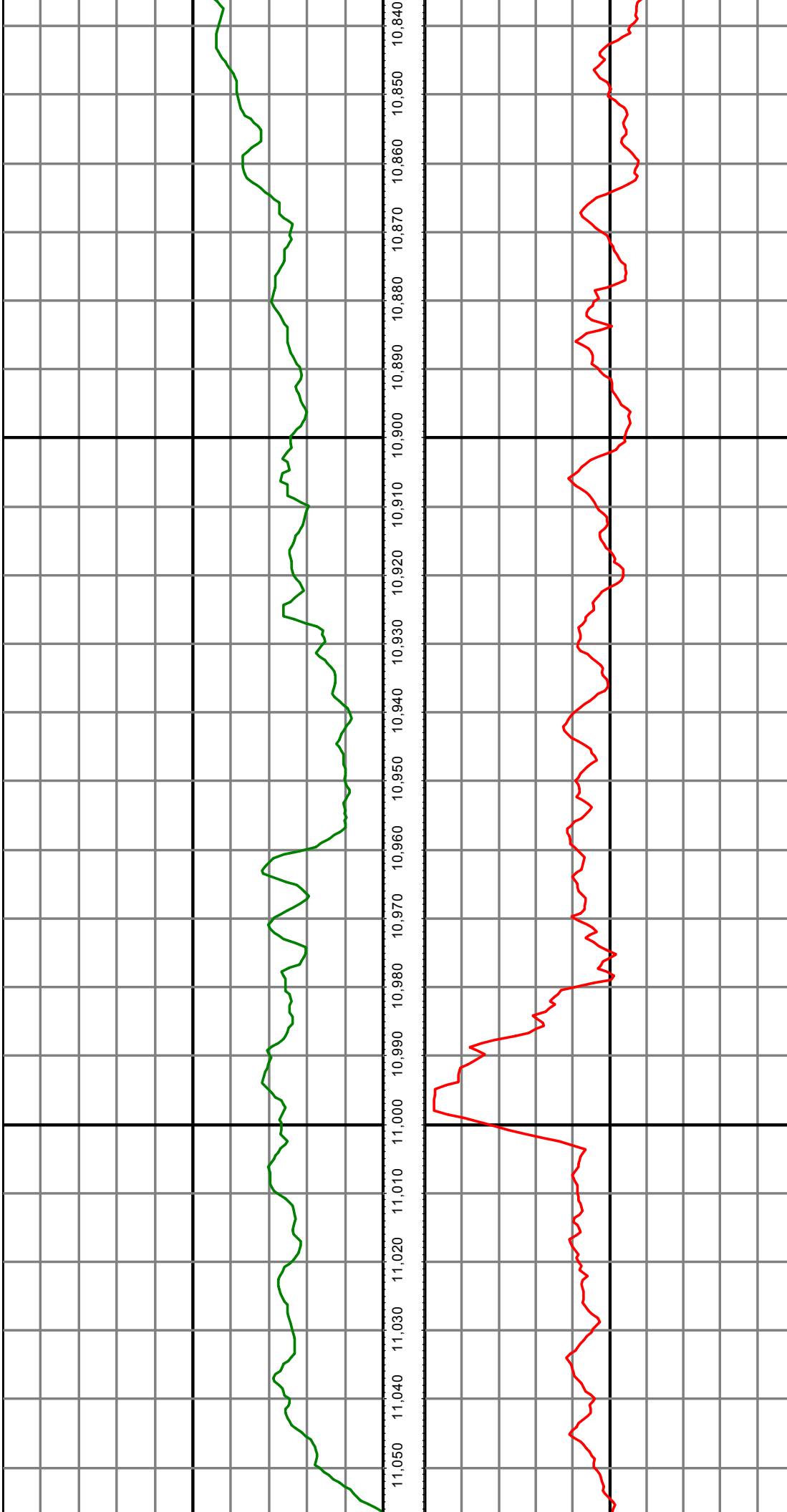
MD: 10551.00 INC: 89.00 AZ: 180.30



MD: 10643.00 INC: 89.30 AZ: 180.10

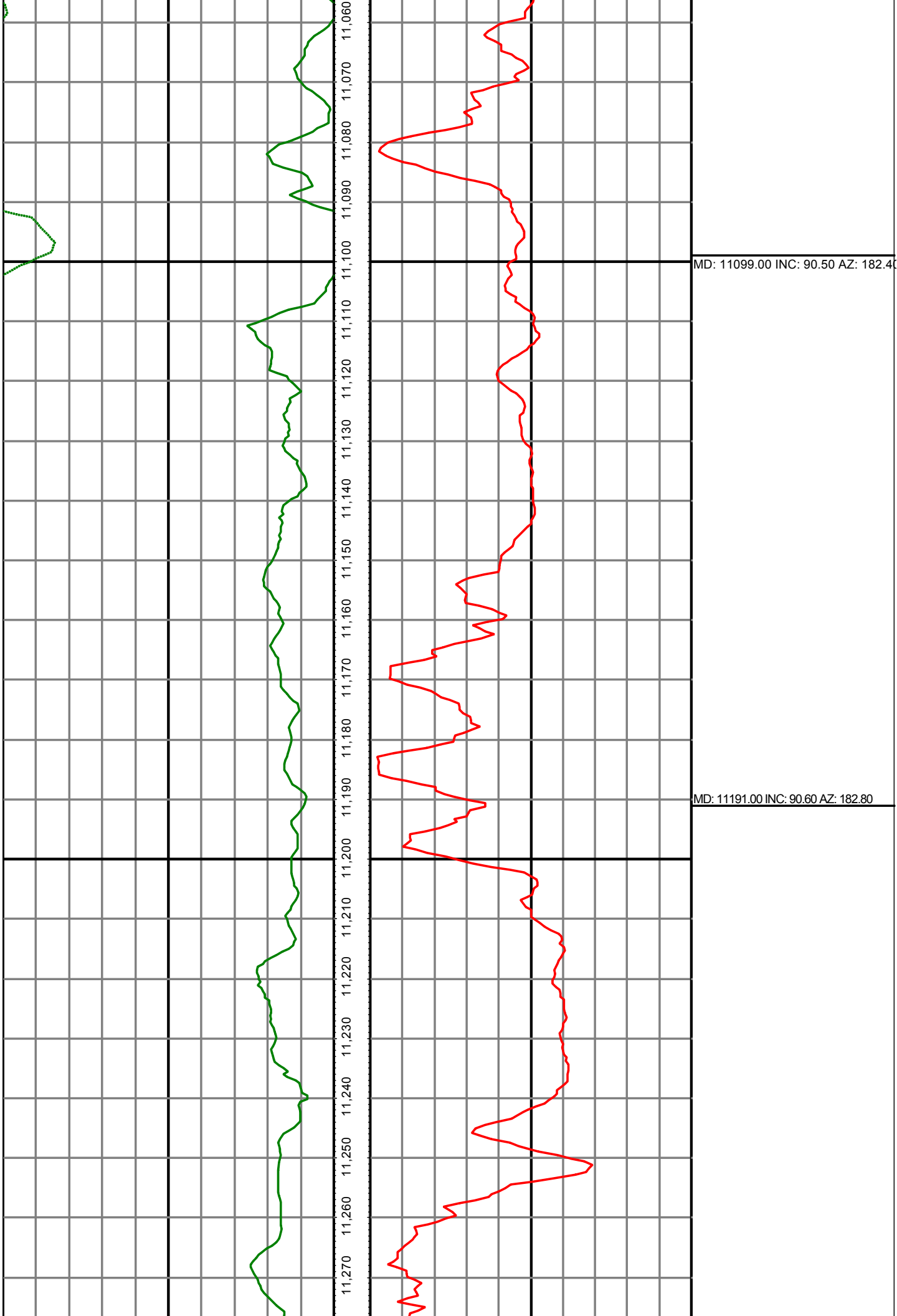
MD: 10734.00 INC: 90.30 AZ: 182.30

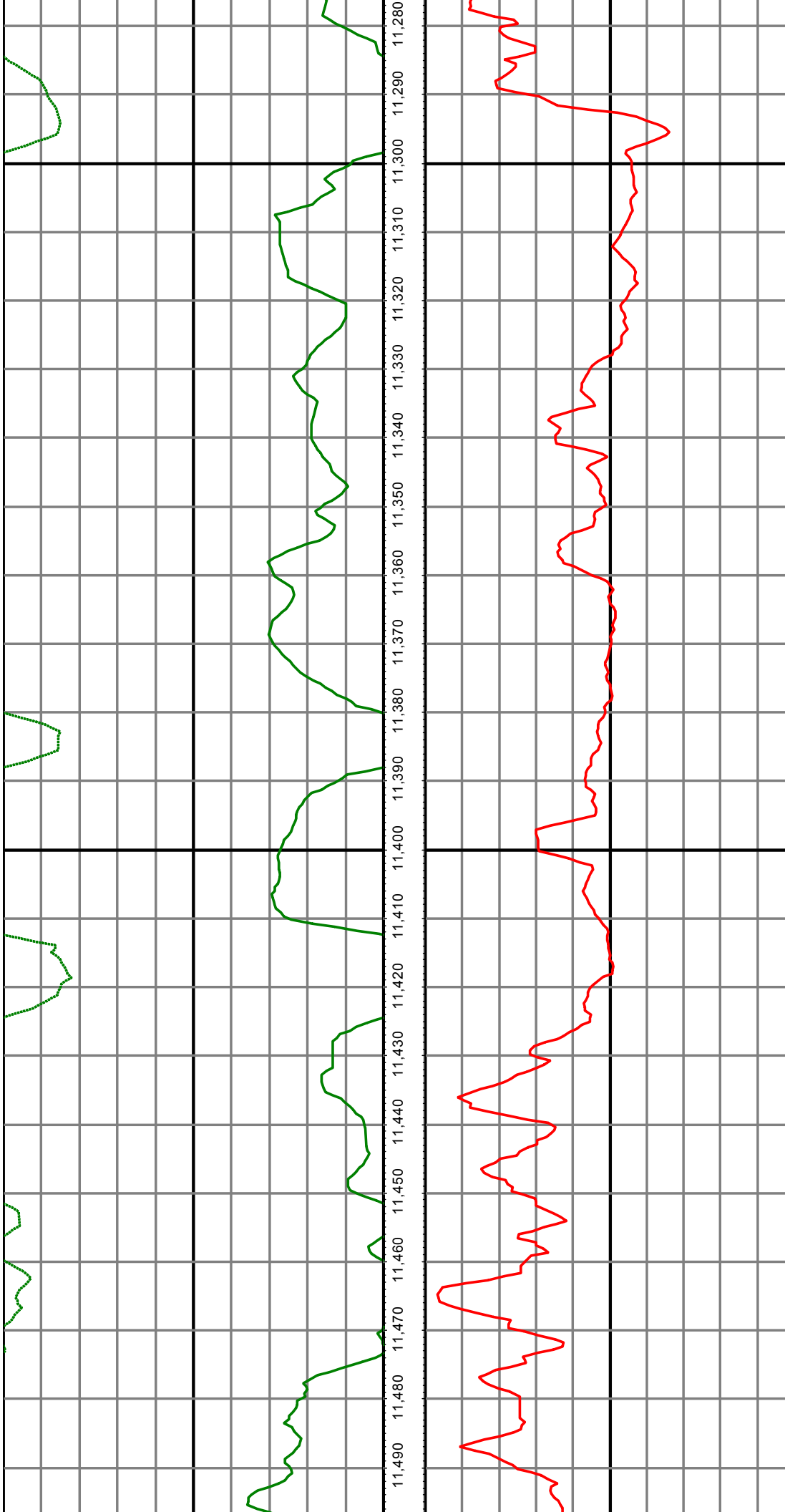
MD: 10825.00 INC: 90.50 AZ: 181.90



MD: 10916.00 INC: 90.90 AZ: 182.30

MD: 11008.00 INC: 90.50 AZ: 182.30

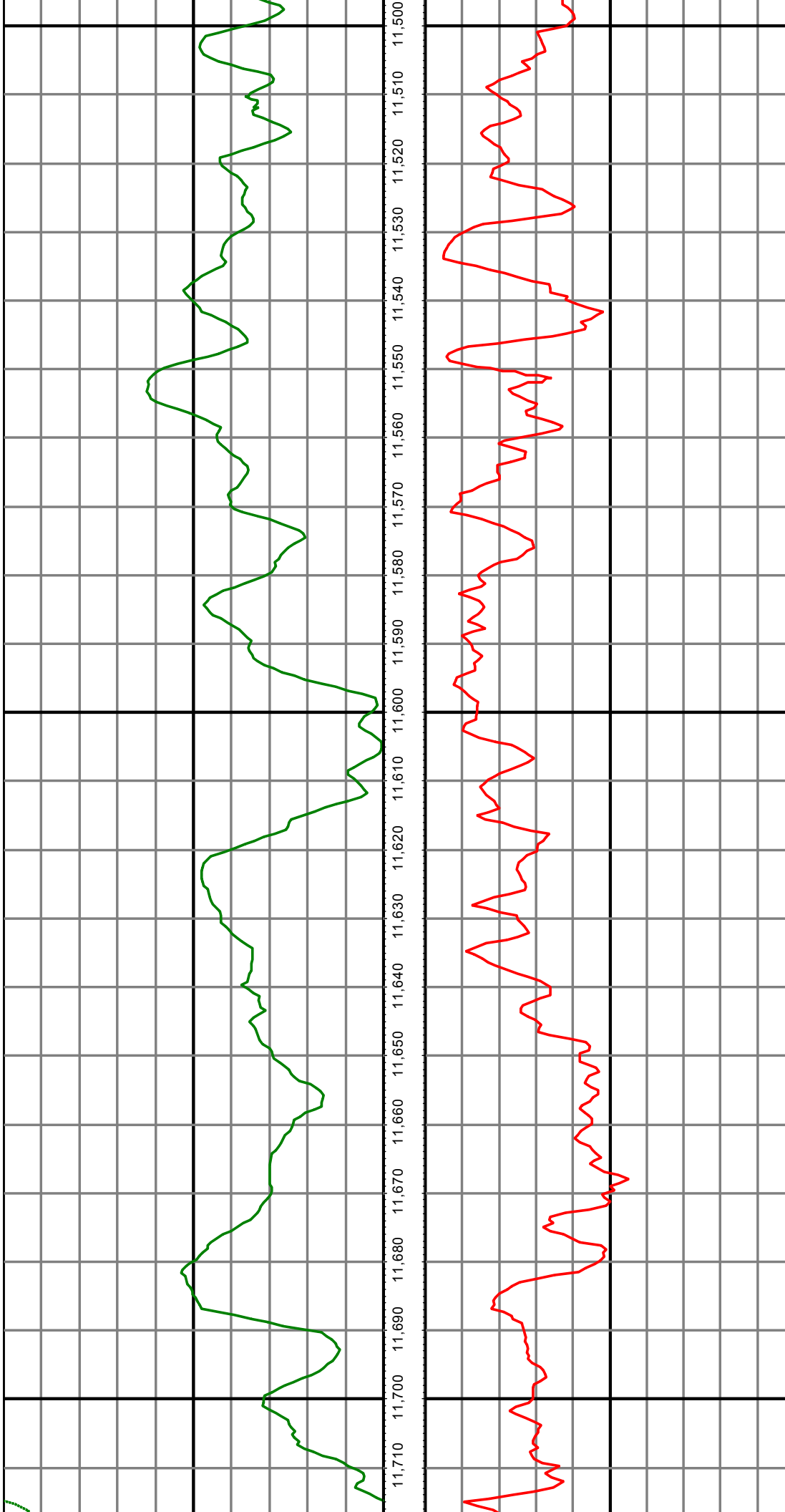




MD: 11283.00 INC: 90.10 AZ: 183.30

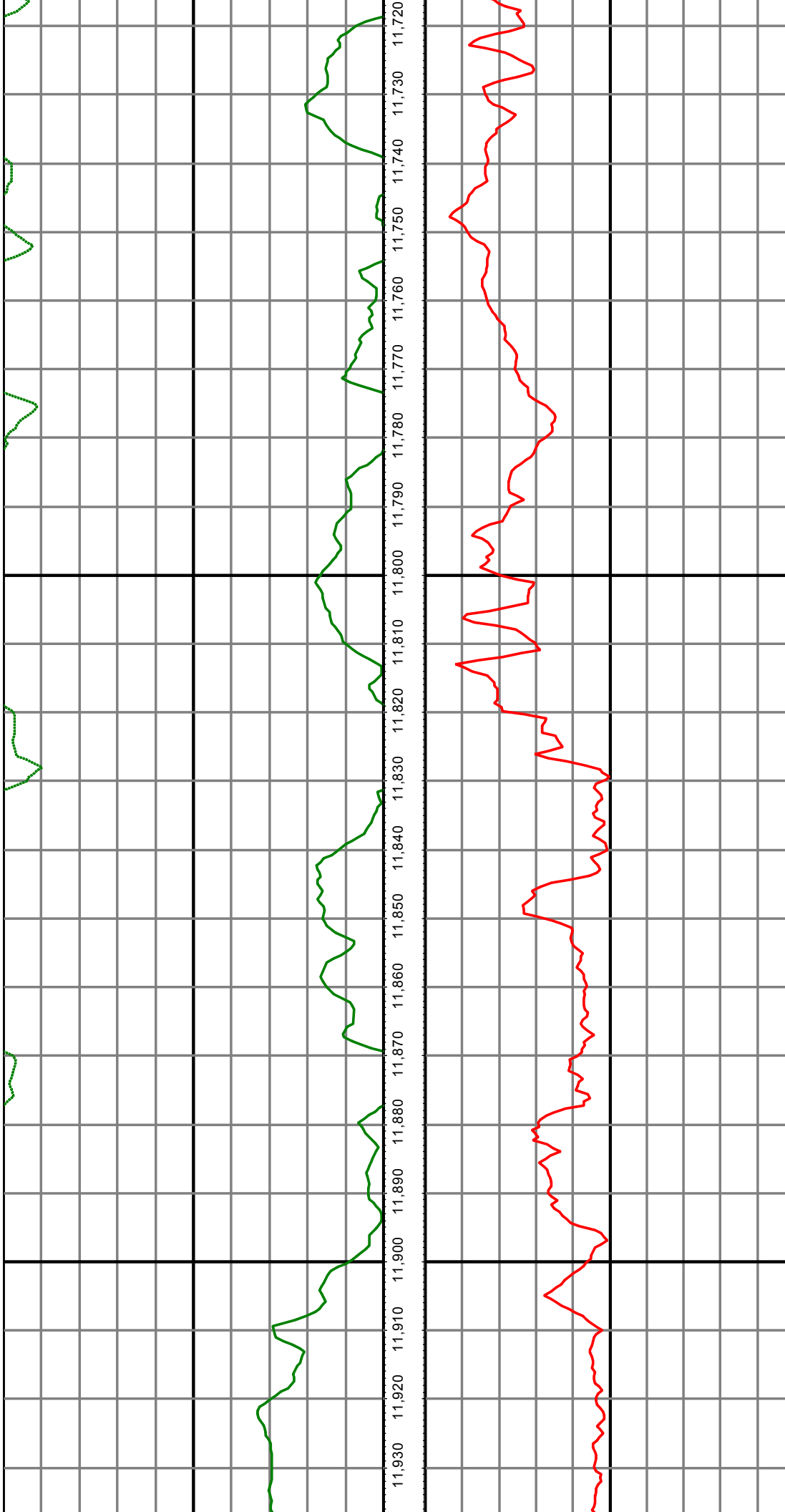
MD: 11375.00 INC: 90.50 AZ: 183.10

MD: 11466.00 INC: 91.20 AZ: 182.50



MD: 11558.00 INC: 93.50 AZ: 179.20

MD: 11650.00 INC: 91.20 AZ: 179.00

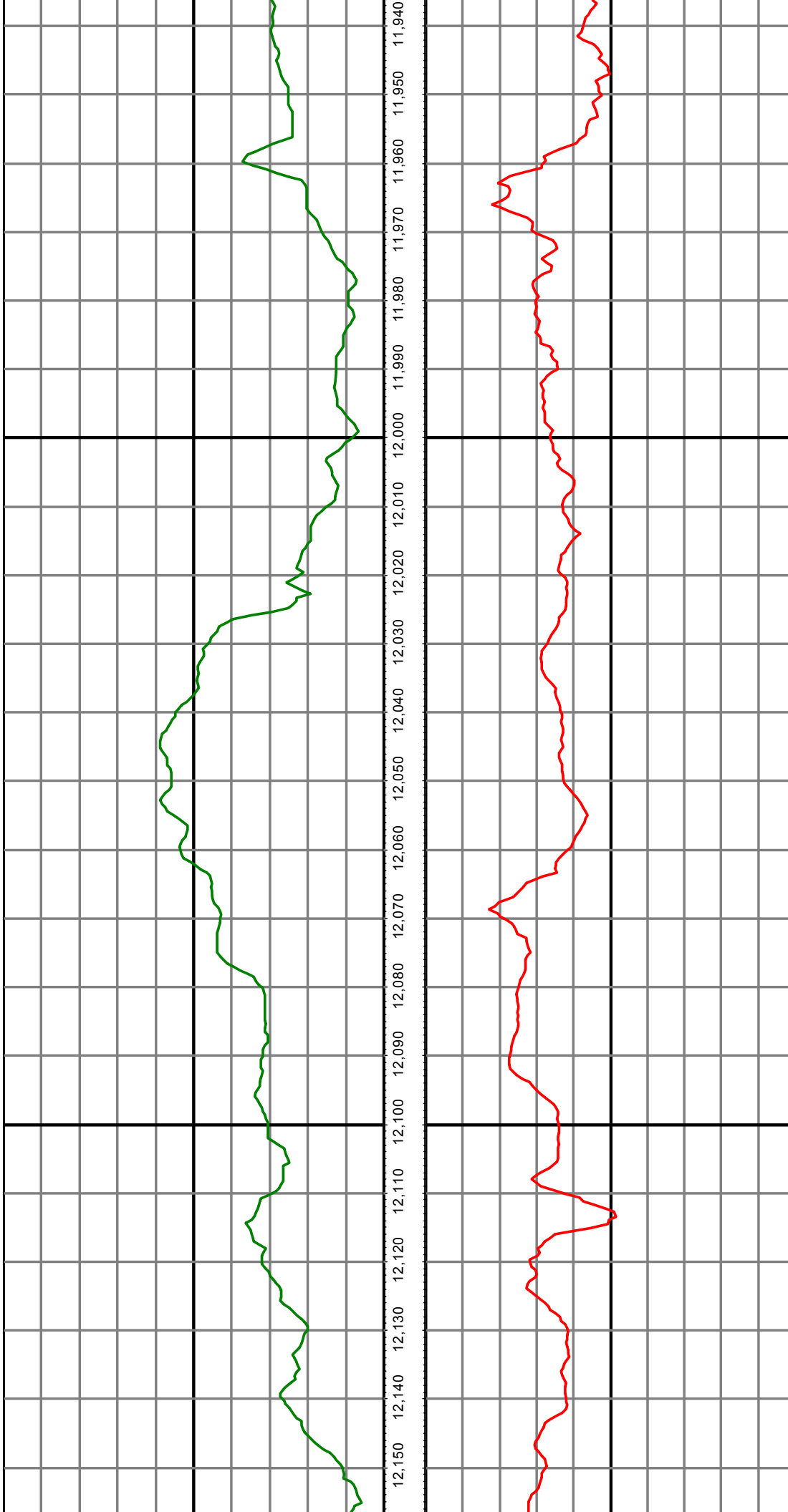


MD: 11741.00 INC: 91.30 AZ: 178.20

MD: 11832.00 INC: 89.50 AZ: 177.80

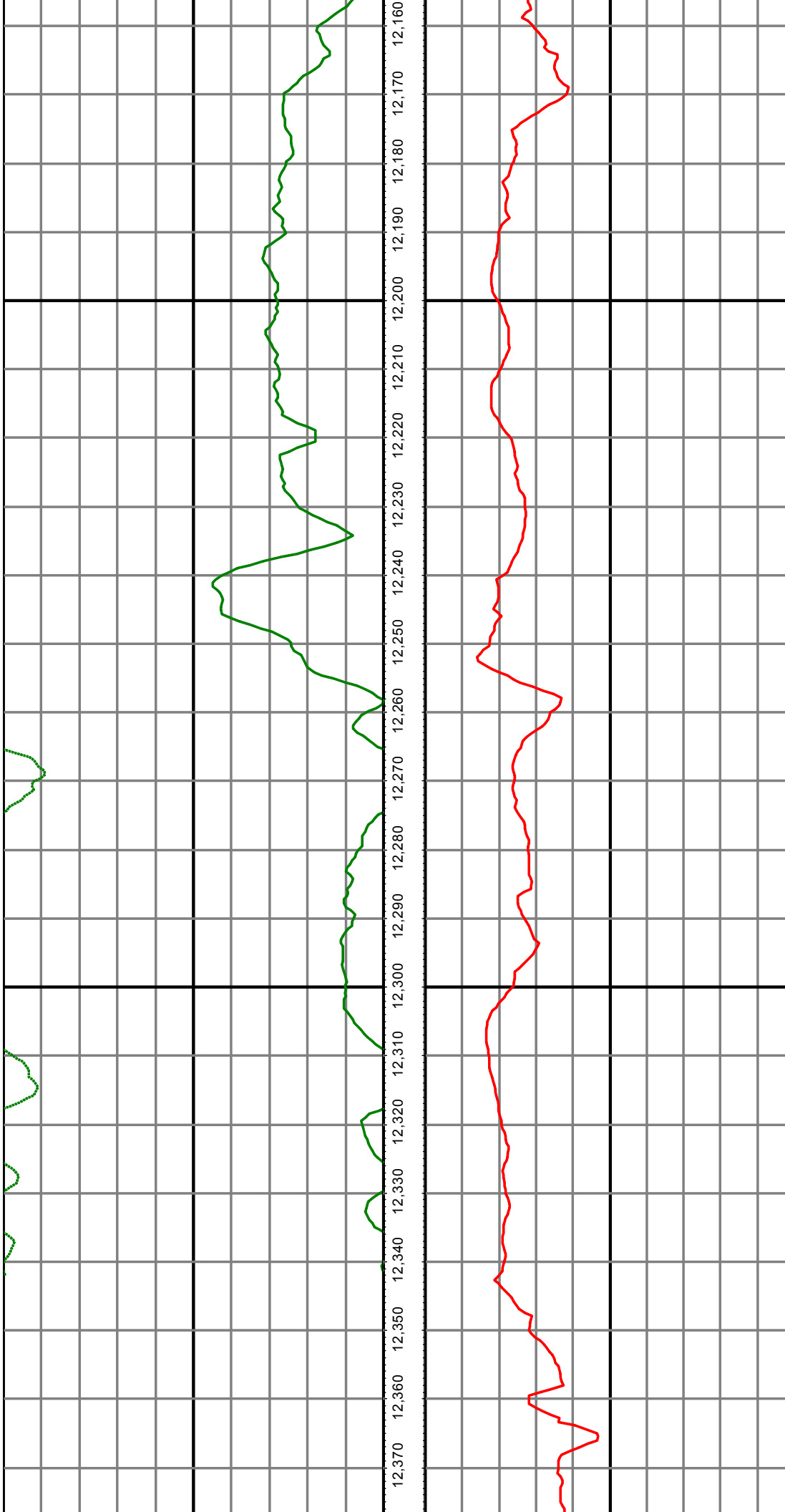
MD: 11924.00 INC: 89.50 AZ: 177.40





MD: 12015.00 INC: 88.70 AZ: 176.40

MD: 12106.00 INC: 88.10 AZ: 176.40



MD: 12198.00 INC: 88.40 AZ: 177.10

MD: 12289.00 INC: 88.80 AZ: 177.30

MD: 12330.00 INC: 88.90 AZ: 177.80

