



DDC

**RM-13829**

5":100' - MD

10/28/2013 5:21:01 PM

**Oper. Company:** Noble Energy

**Country:** USA

**State / Province:** Colorado

**County / Parish:** Weld

**Started:** 10/23/2013 08:30 PM

**API/UWI:** 05-123-37530

**Field:** Wattenburg

**Well:** Rohn State LD09-65HN

**Rig:** H&P 326

**Ended:** 10/28/2013 05:00 PM

### Personnel

**Day Hand:** Chris Abbott

**Night Hand:** Josh Jann

**Comp. Emp:**

### Location

**Latitude:** 40° 45' 52.272 N

**Longitude:** 103° 51' 41.940 W

**Elev. GL:** 4716

**Elev. DF:** 30

**Elev. KB:** 4746

FINAL

### Hole Data

Size	From	To
13 3/4	0	1271
8 3/4	1271	6152
6 1/8	6152	9764

### Casing Data

Size	From	To
9 5/8	0	1271
7	1271	6152

### Bit Sizes

Size	From	To
13 3/4	0	1271
8 3/4	1271	6152
6 1/8	6152	9764

### Mud Data

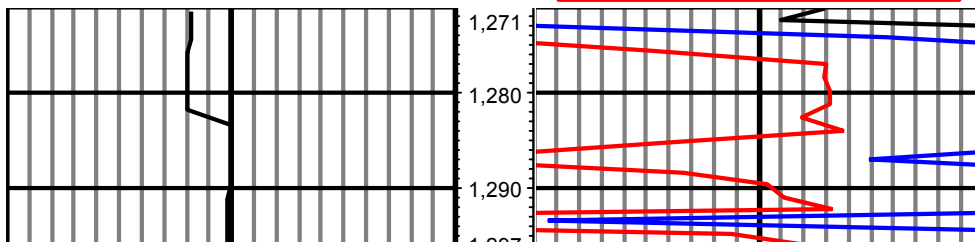
Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
LSND	10		38				0	9764

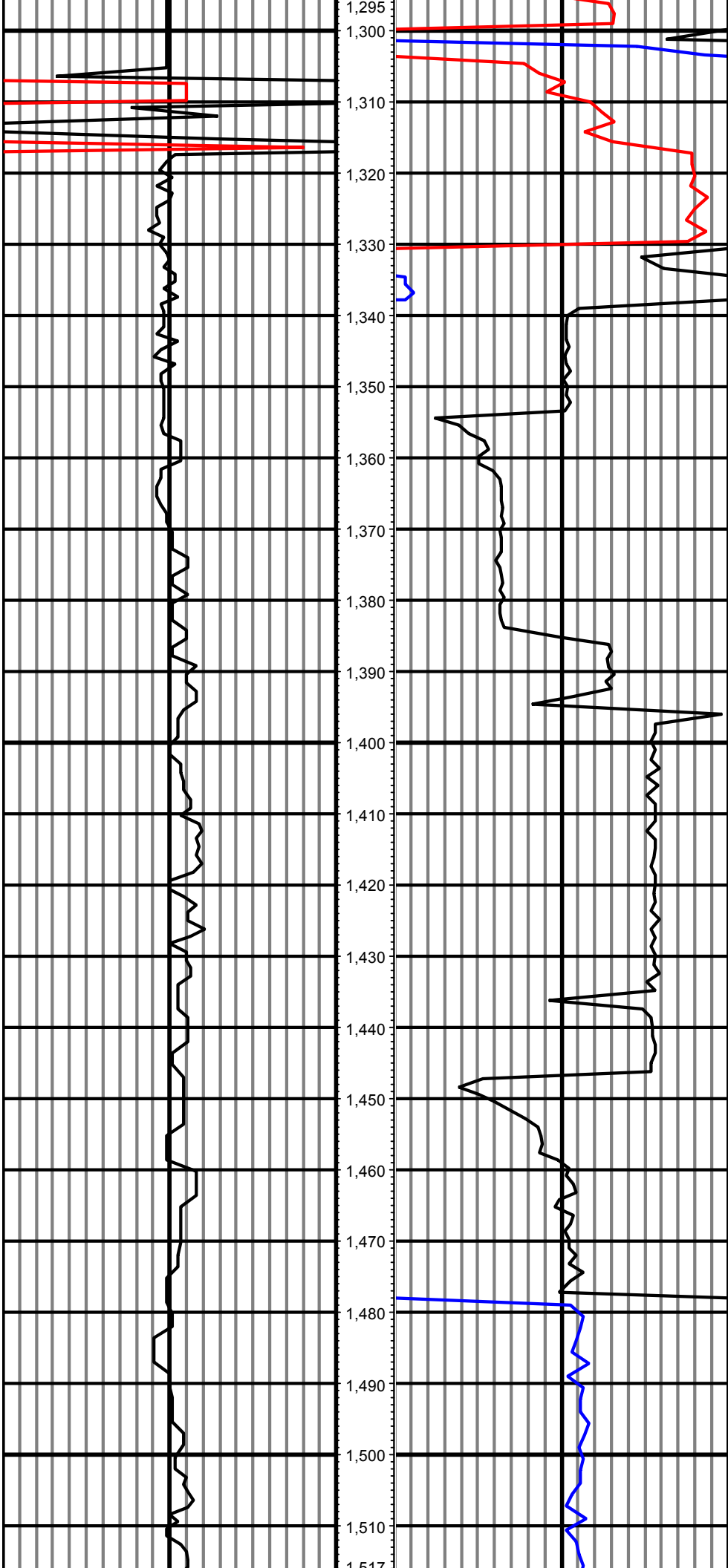
### Tool Run Data

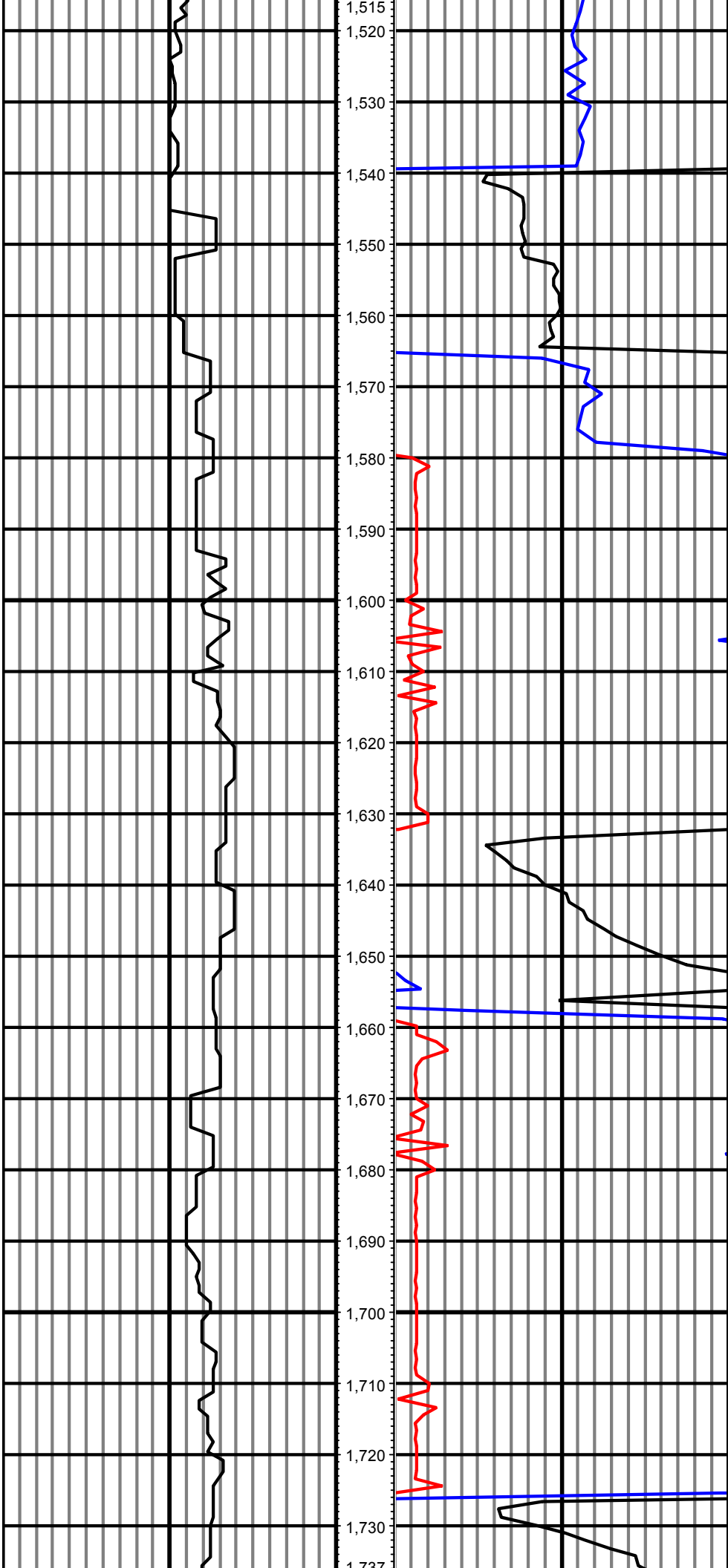
Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
1953	37	0	10/23/2013 8:30:15 PM	1271	10/24/2013 10:00:15 PM	5015
1953	45	0	10/24/2013 11:00:39 PM	5015	10/25/2013 6:00:39 PM	6152
1953	52	0	10/26/2013 8:00:34 PM	6152	10/28/2013 5:00:34 PM	9764

*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 Counts(mG) 124.00 MD 0.00 ROP(FT/HR) 387.20 Surveys (MD/INC/AZ)  
 124.00 2 248.00 FT 387.20 2 774.41  
 774.41 3 1,161.61

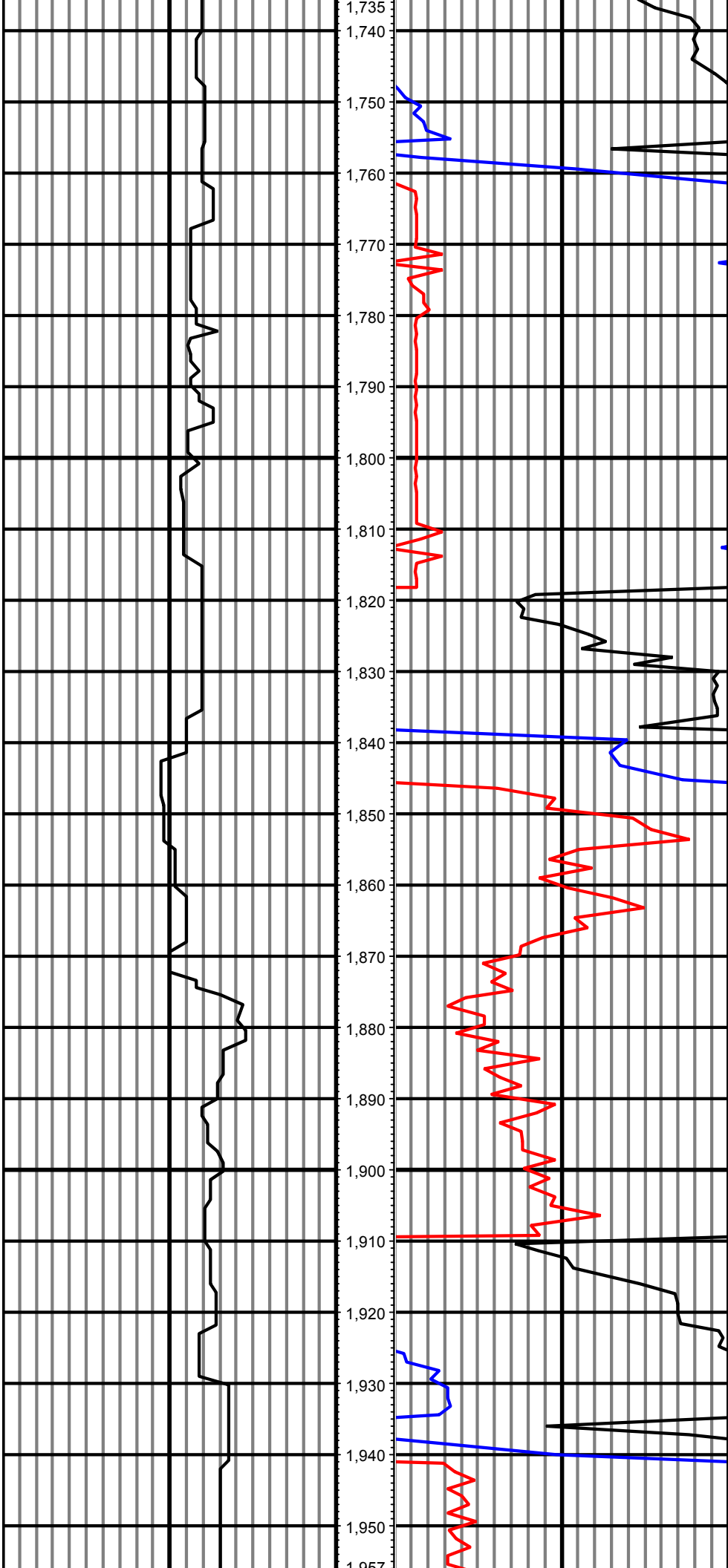






MD: 1581.00 INC: 6.10 AZ: 24.40

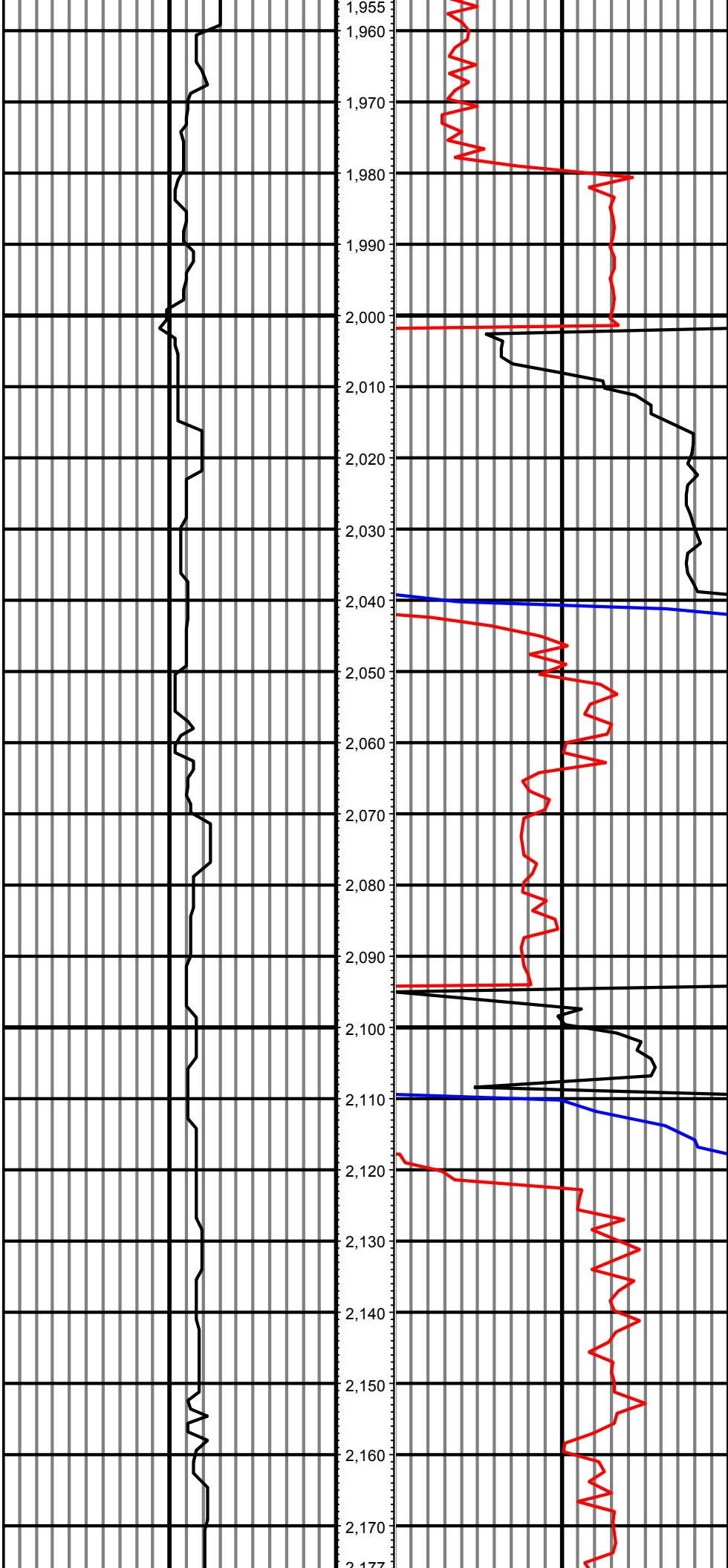
MD: 1675.00 INC: 7.70 AZ: 31.10

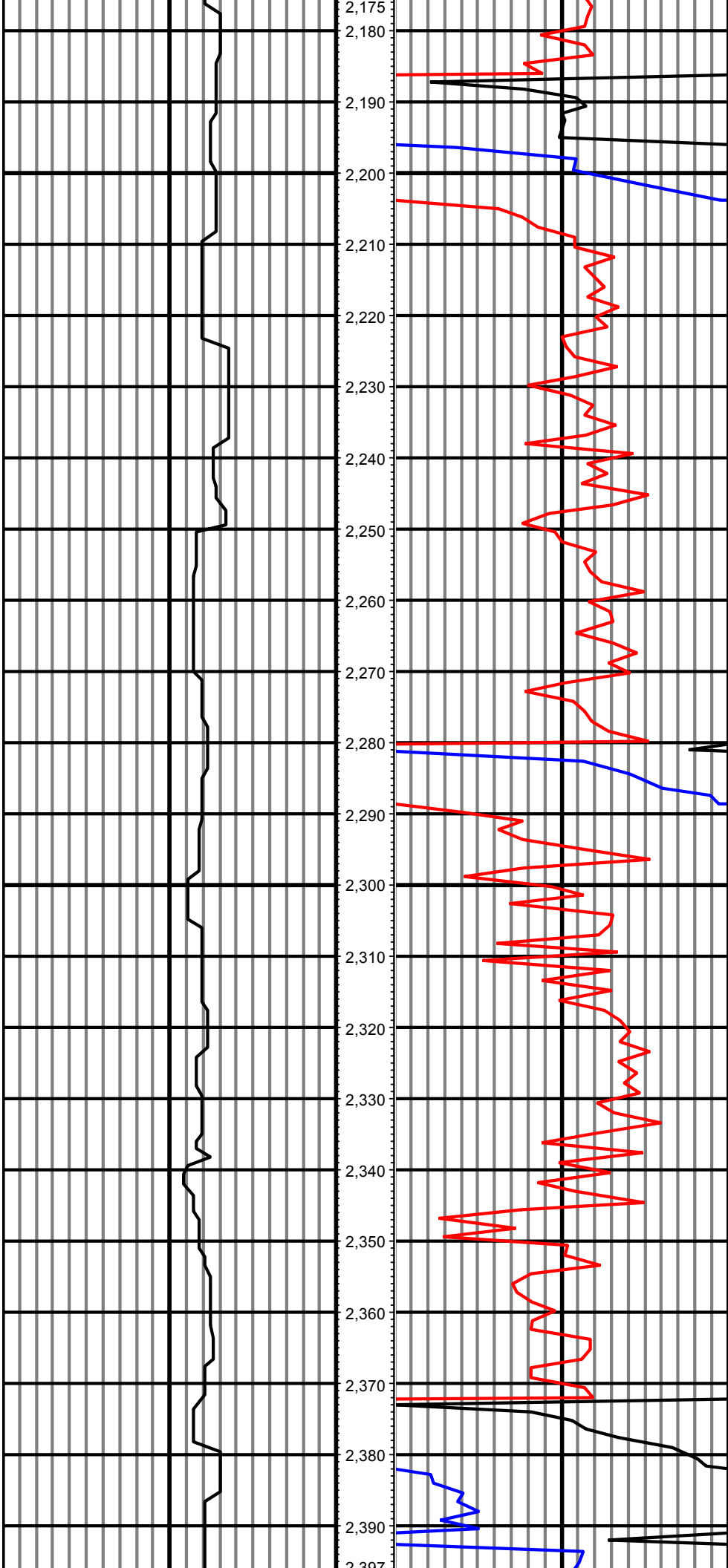


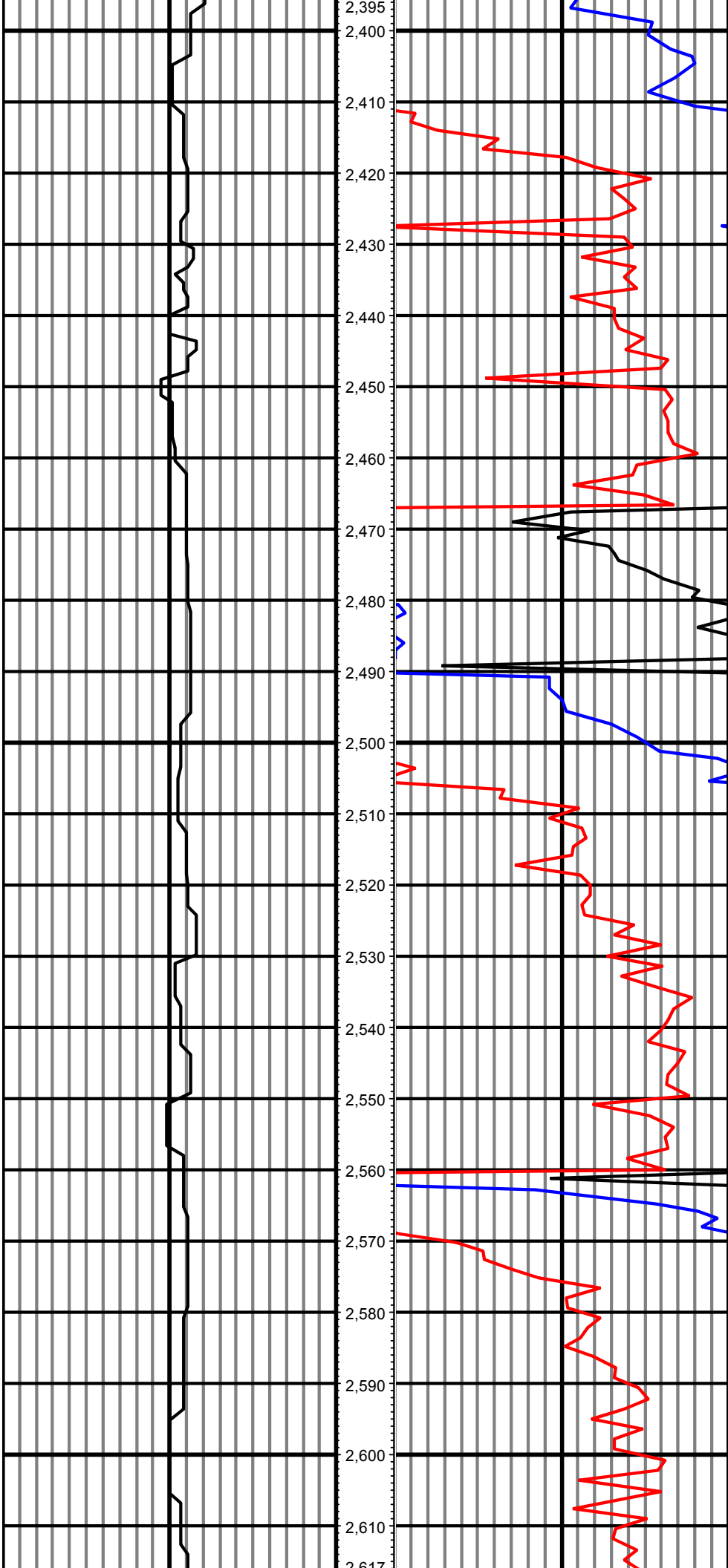
MD: 1767.00 INC: 10.10 AZ: 29.00

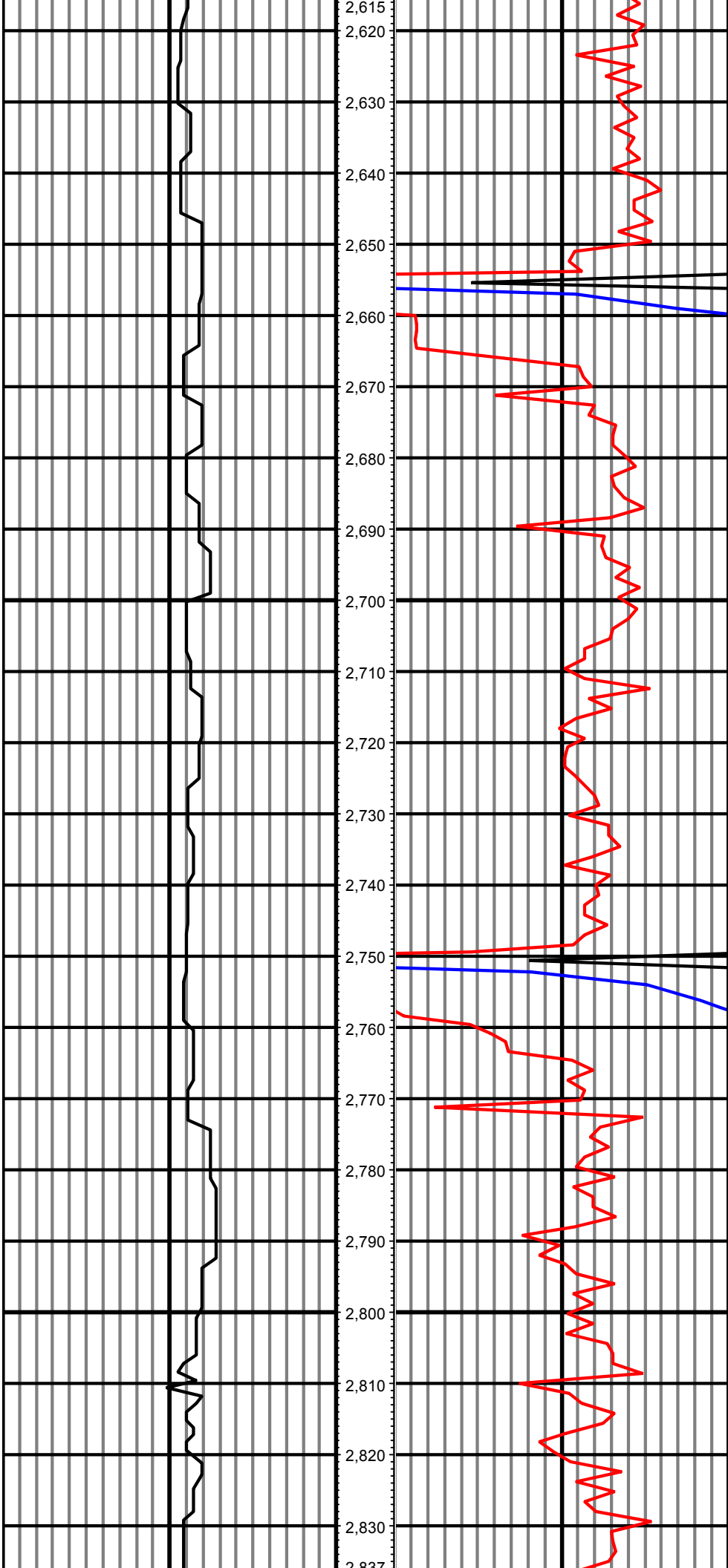
MD: 1860.00 INC: 11.20 AZ: 26.90

MD: 1953.00 INC: 12.90 AZ: 26.00

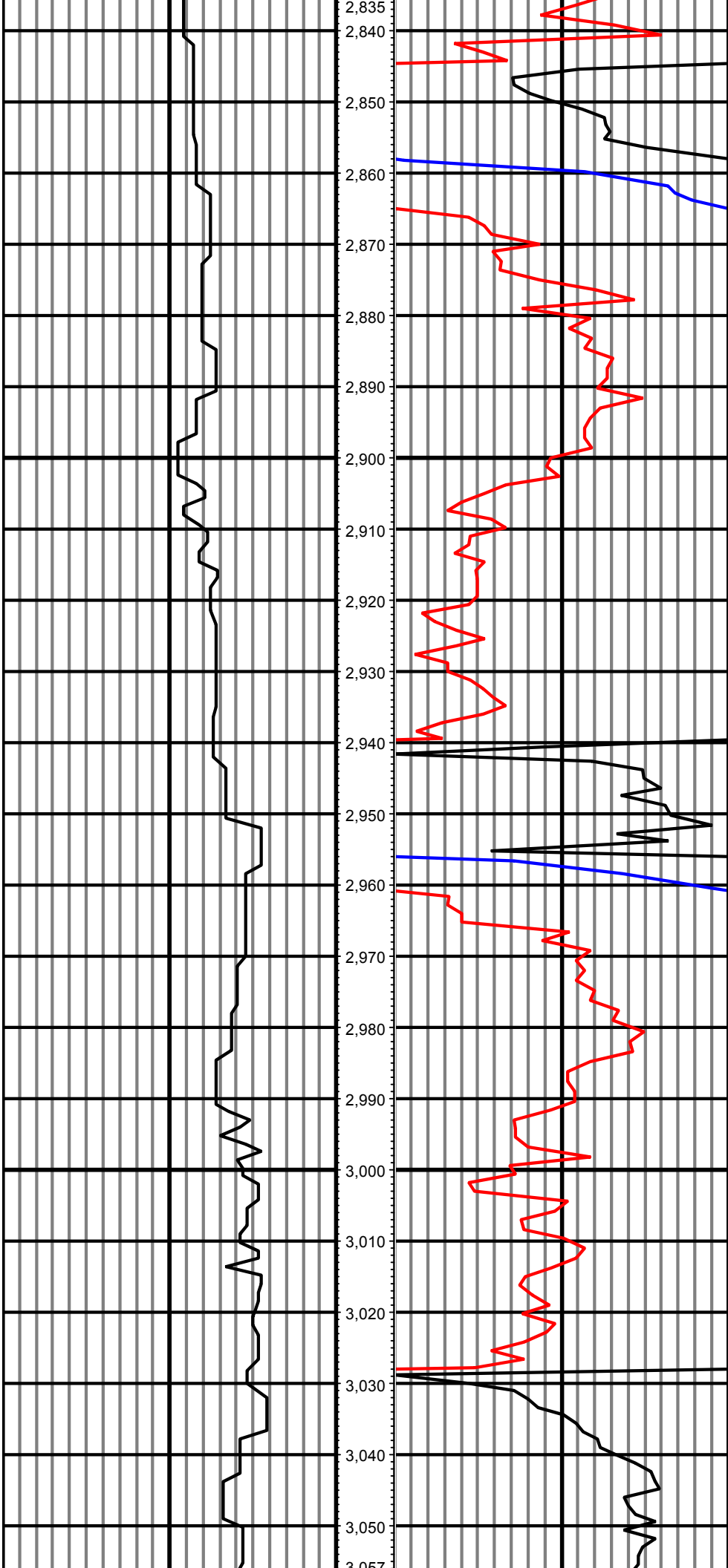






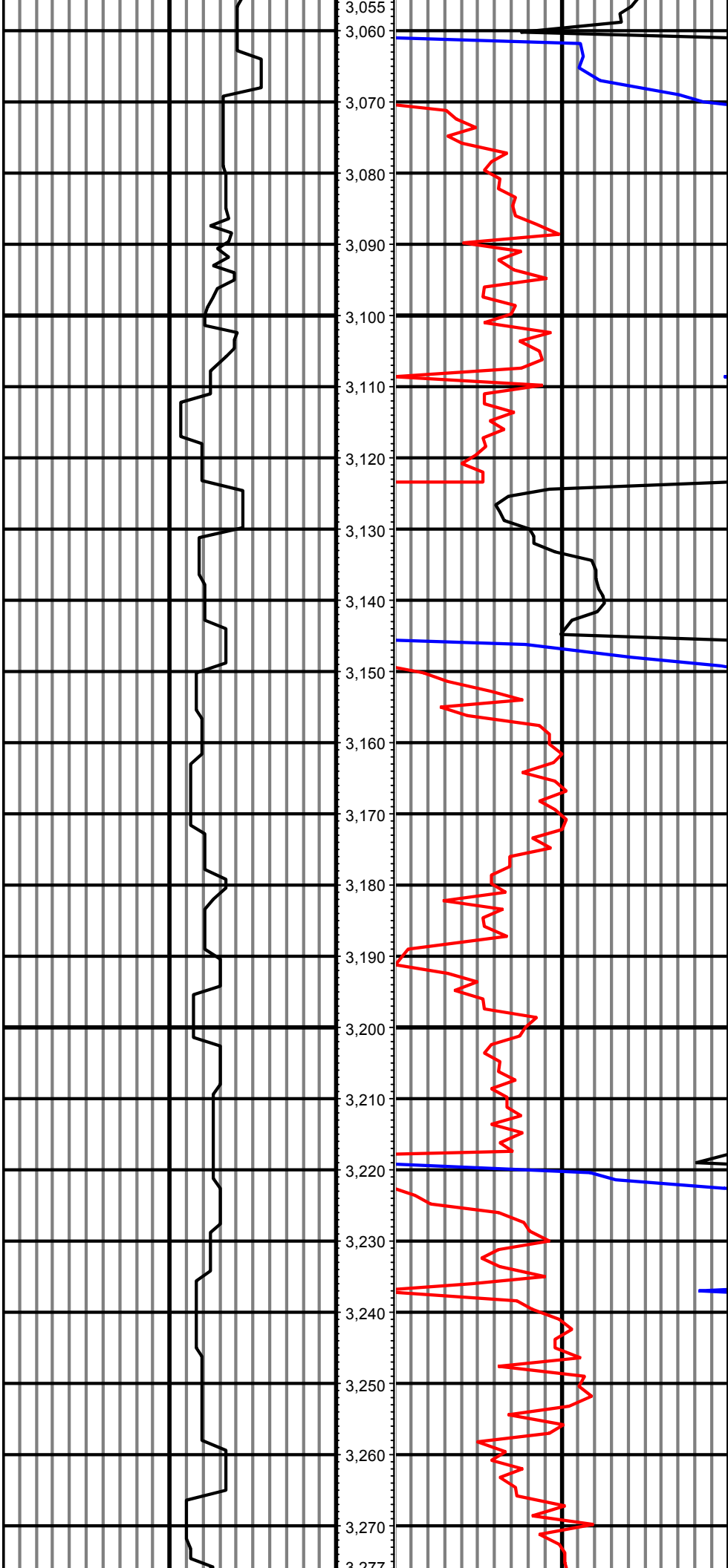






MD: 2885.00 INC: 14.80 AZ: 18.60

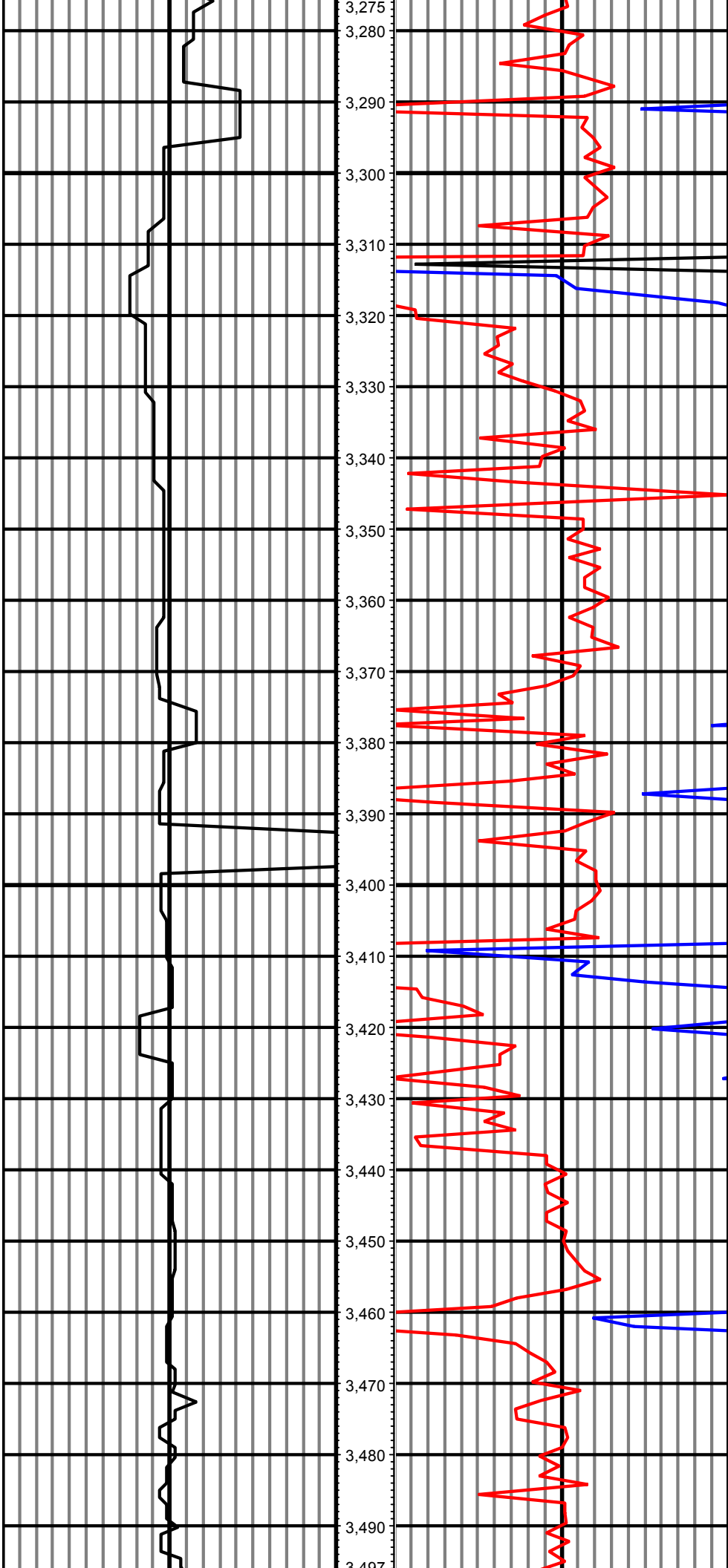
MD: 2980.00 INC: 14.30 AZ: 17.60



MD: 3074.00 INC: 15.20 AZ: 24.10

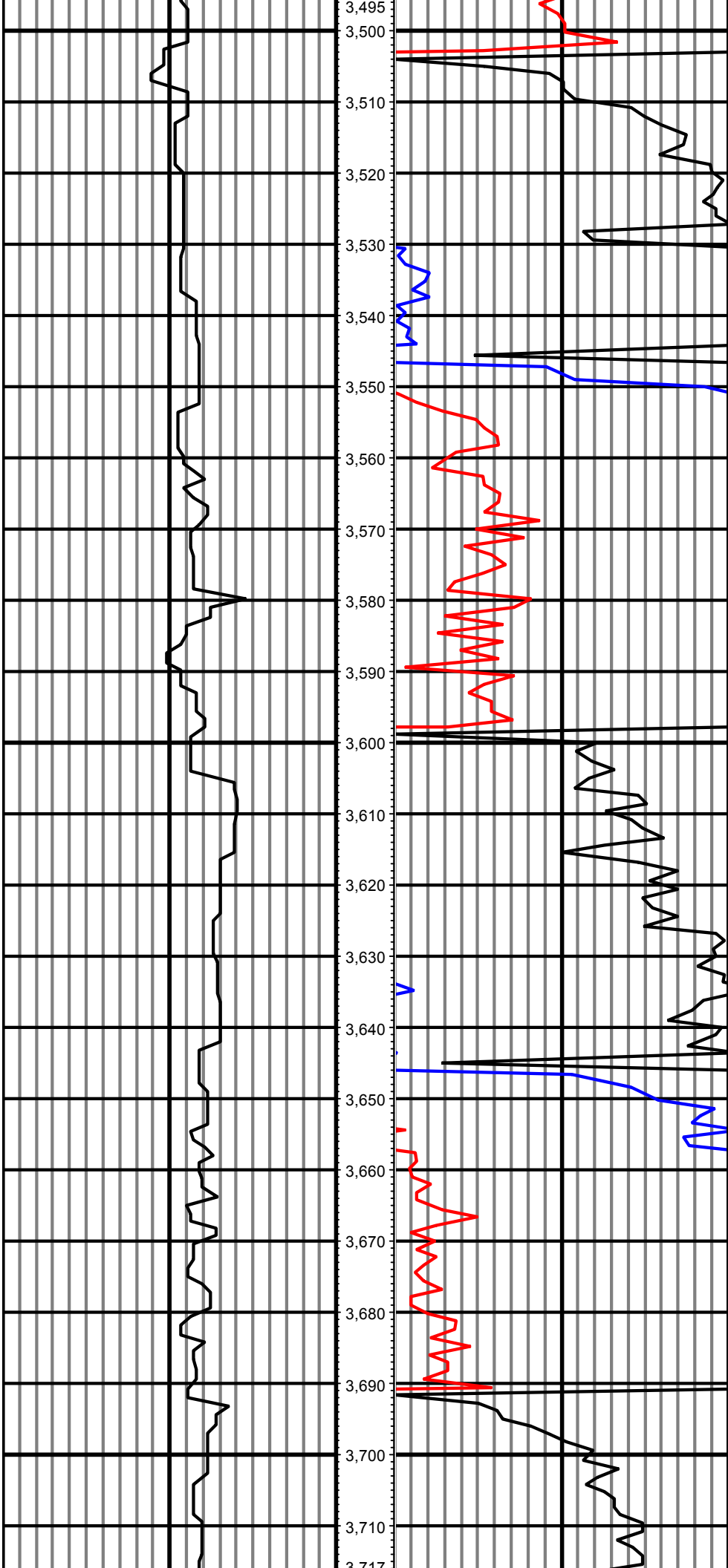
MD: 3169.00 INC: 16.80 AZ: 24.30

MD: 3264.00 INC: 17.10 AZ: 22.70



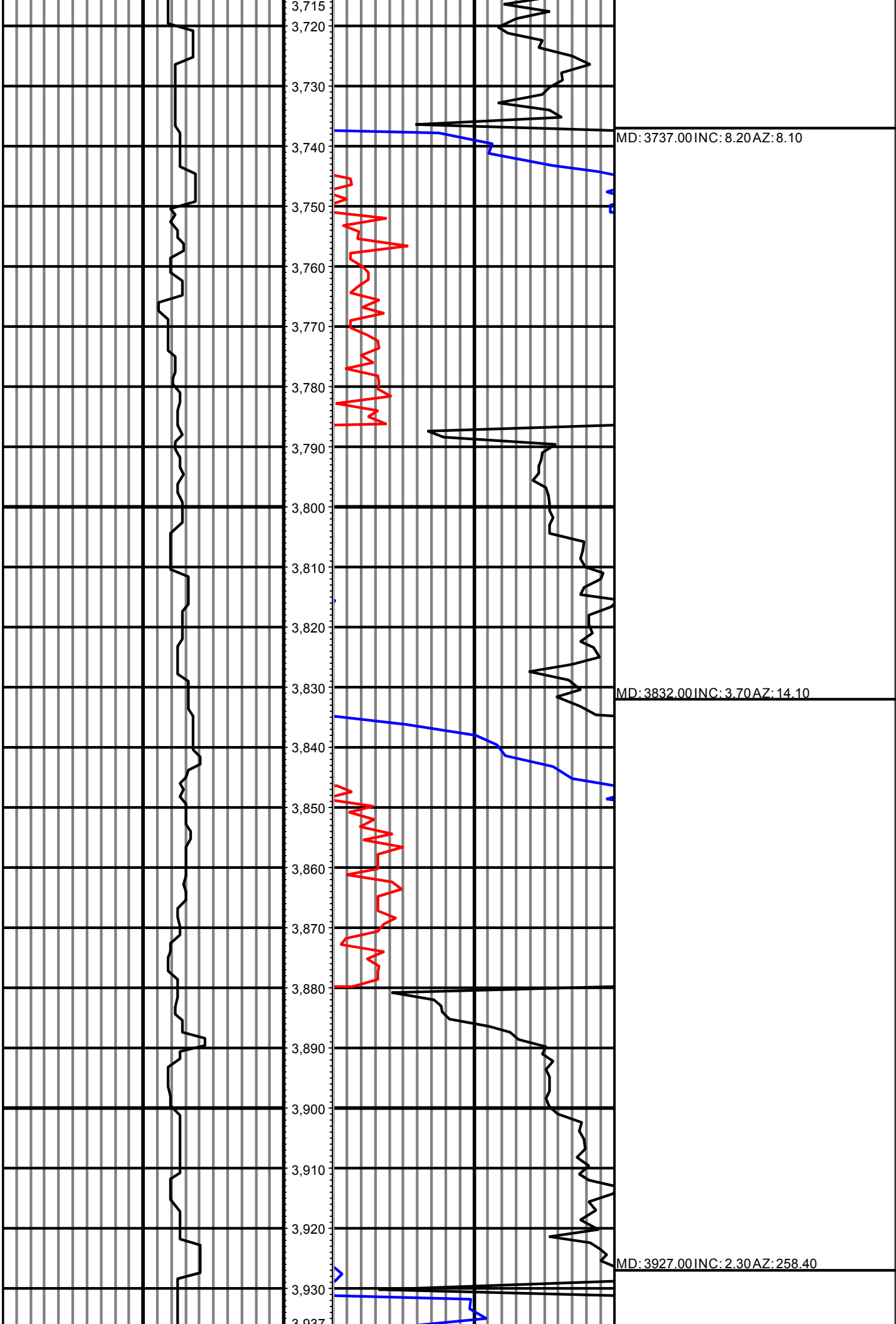
MD: 3358.00 INC: 18.00 AZ: 23.20

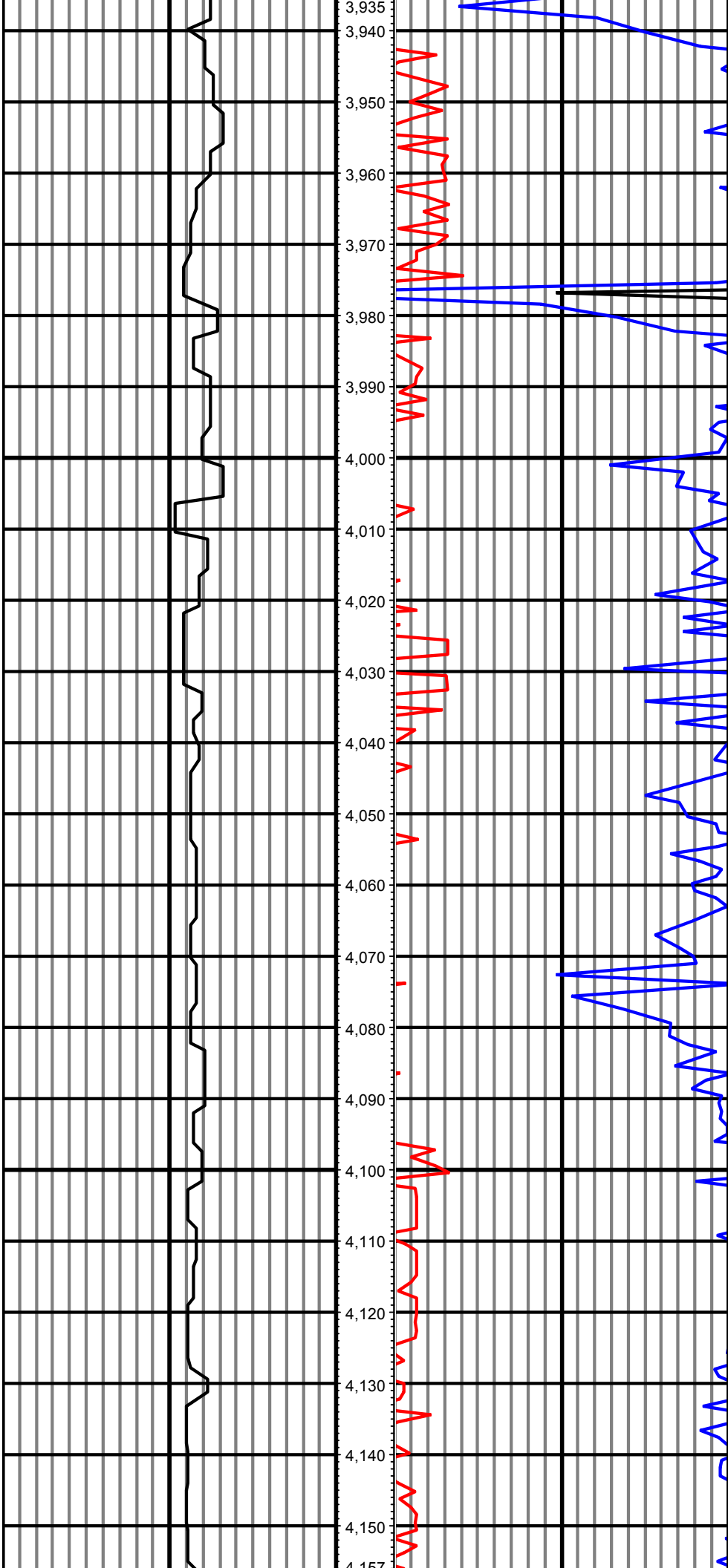
MD: 3453.00 INC: 19.00 AZ: 23.50



MD: 3548.00 INC: 16.80 AZ: 18.50

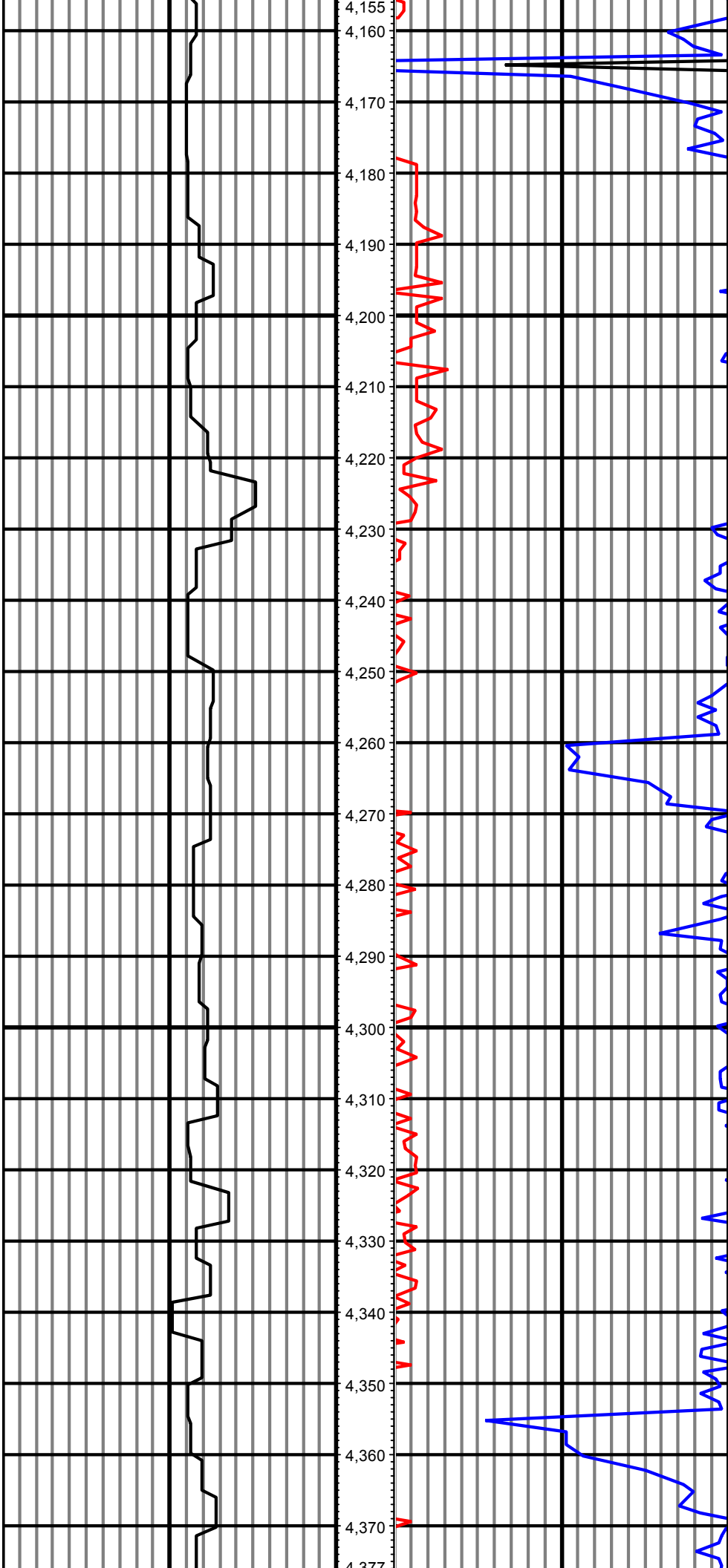
MD: 3643.00 INC: 13.30 AZ: 7.90





MD: 4021.00 INC: 2.10 AZ: 262.60

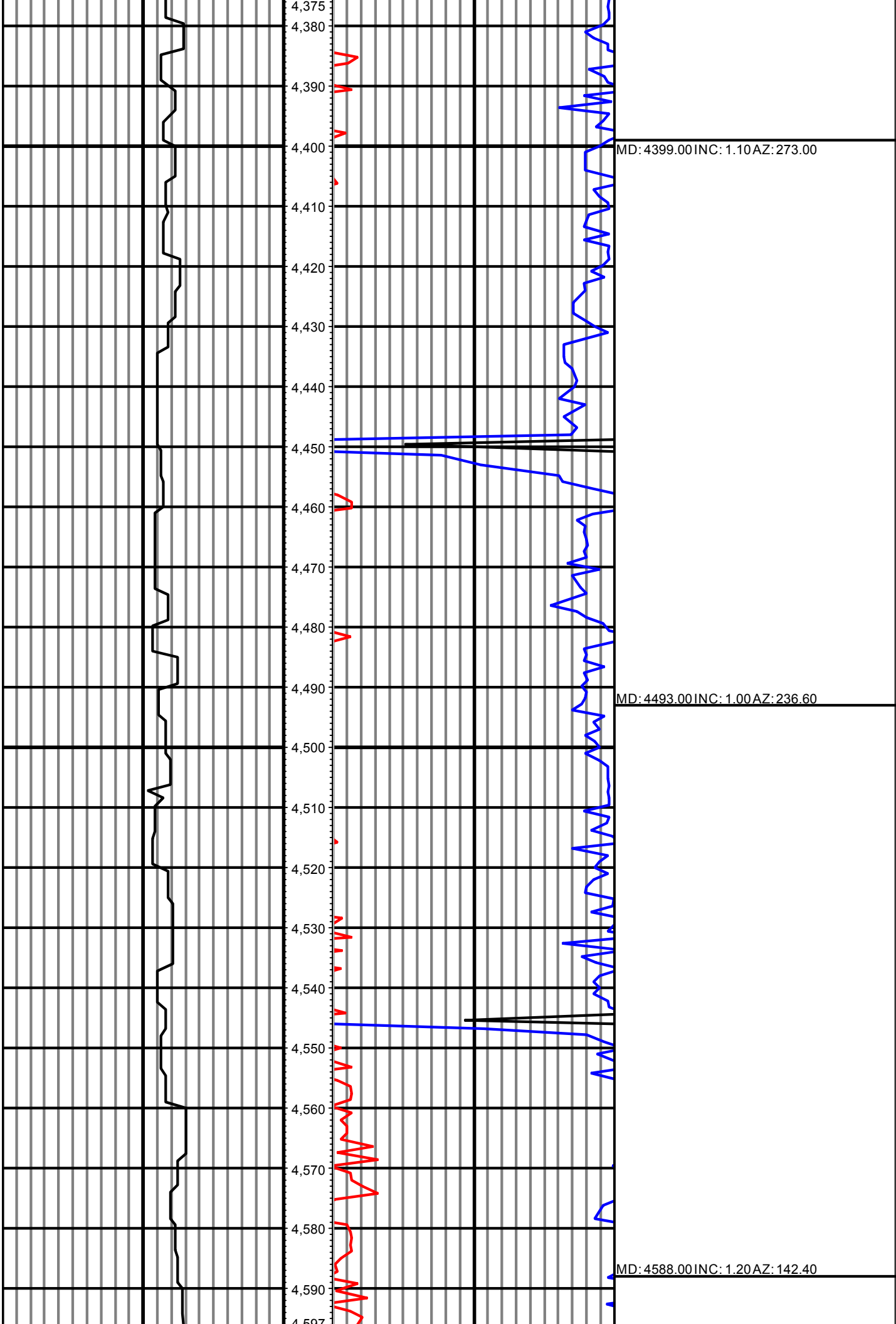
MD: 4116.00 INC: 1.90 AZ: 276.50



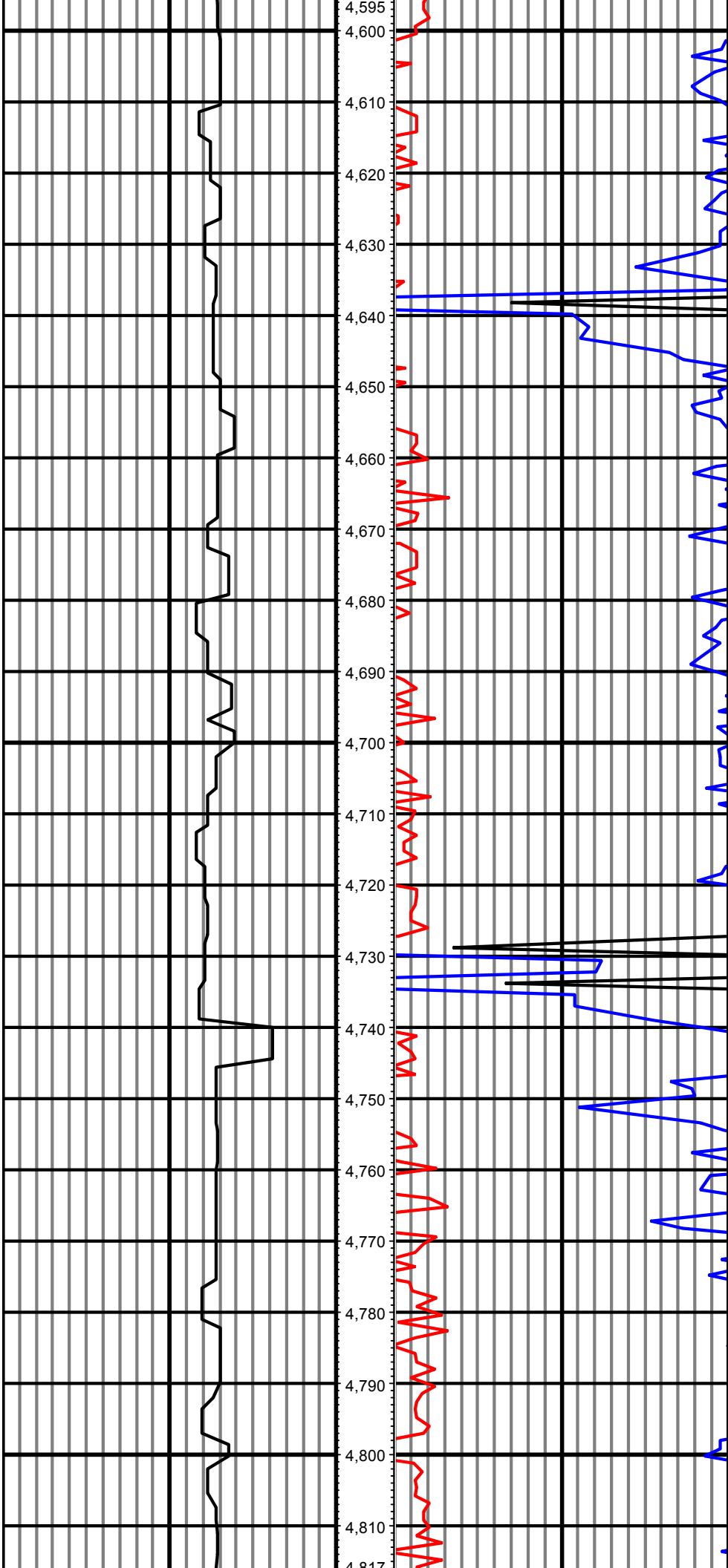
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MD: 4210.00 INC: 1.60 AZ: 280.20

MD: 4305.00 INC: 1.40 AZ: 282.30

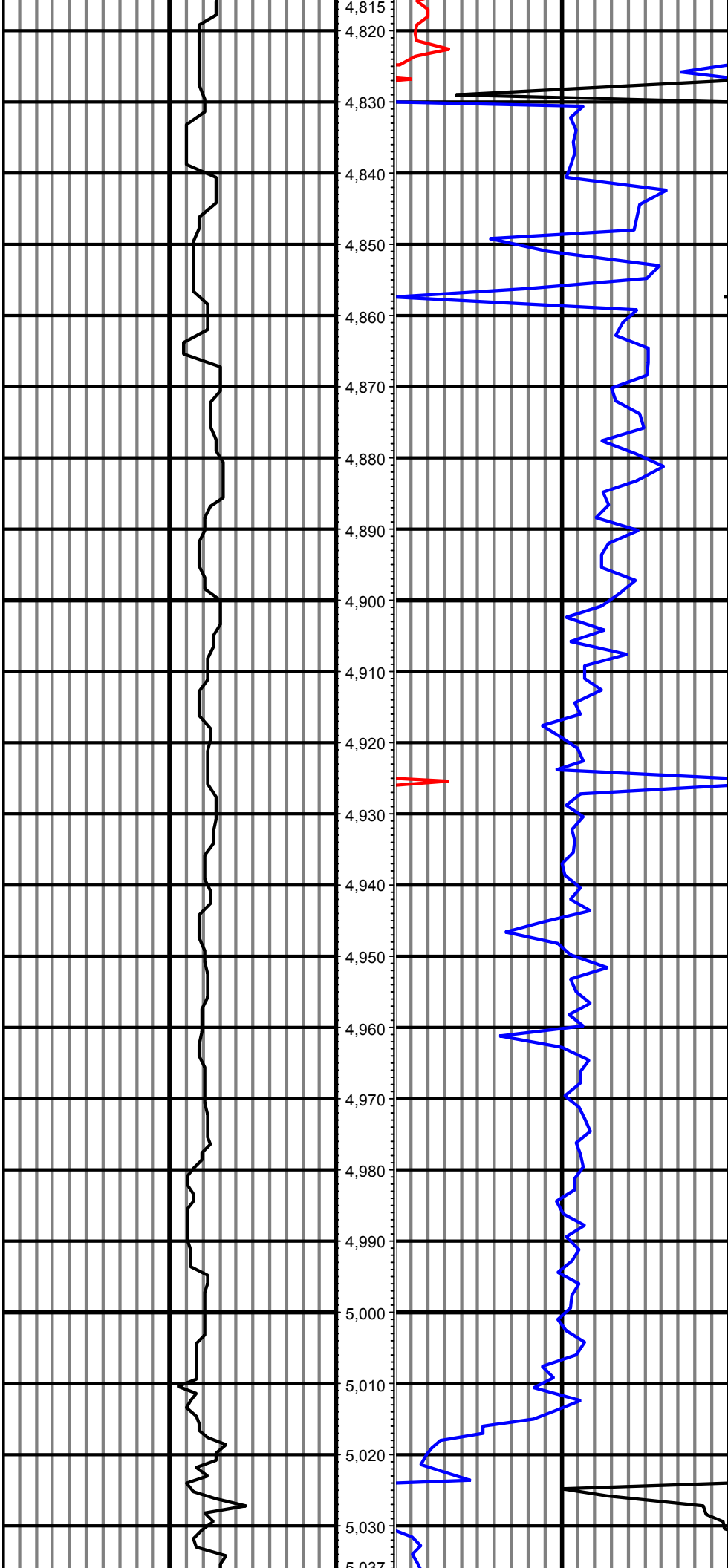






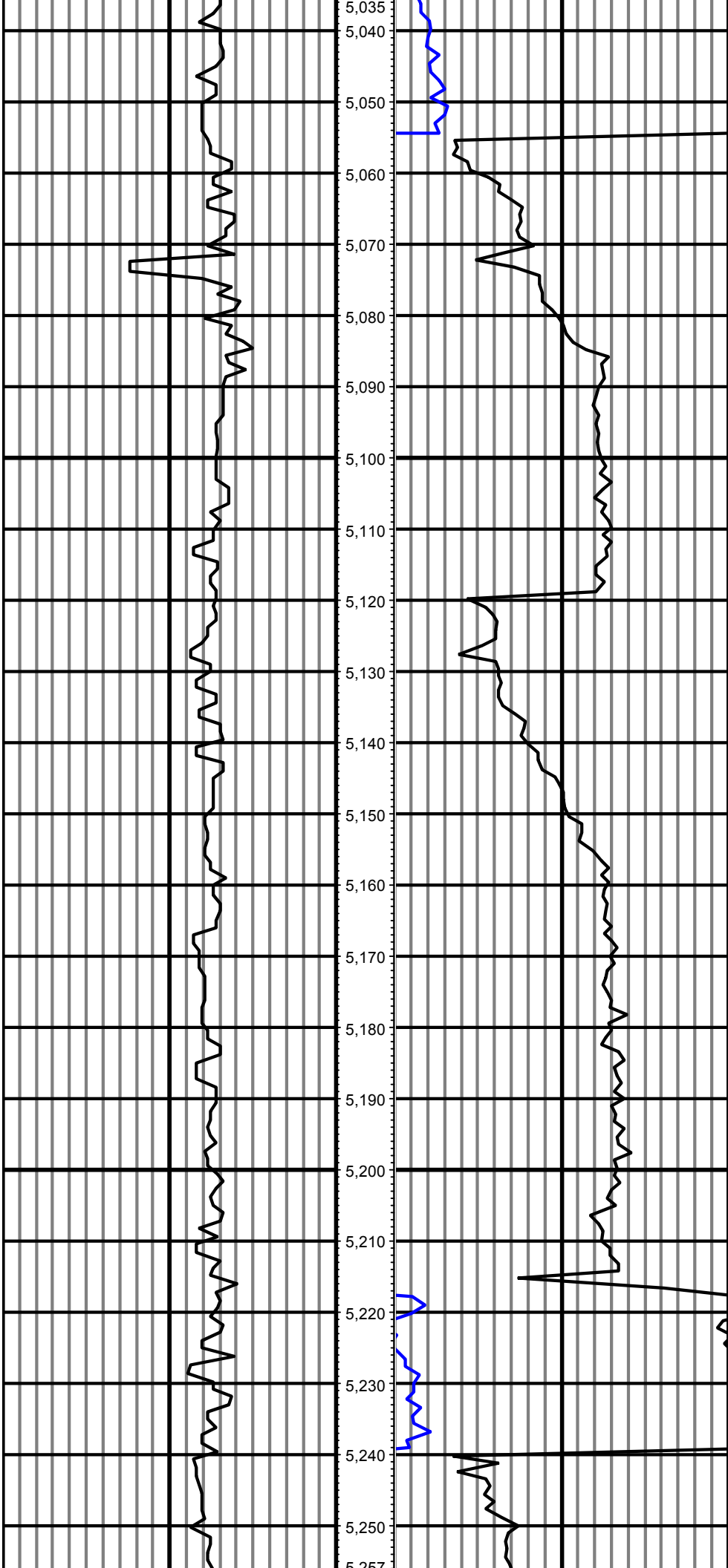
MD: 4683.00 INC: 1.10 AZ: 132.50

MD: 4777.00 INC: 1.40 AZ: 120.20



MD: 4871.00 INC: 1.40 AZ: 126.70

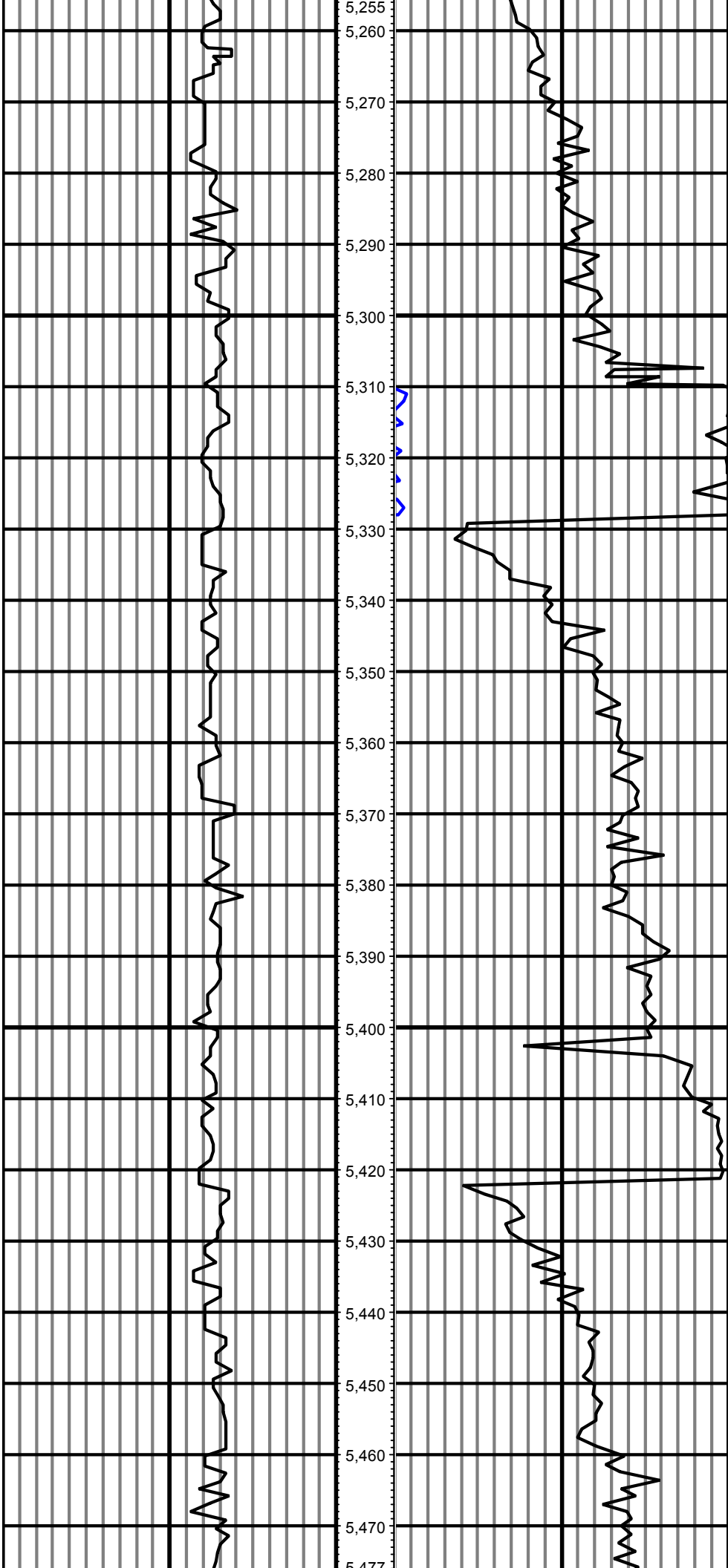
MD: 4966.00 INC: 1.30 AZ: 100.40



MD: 5061.00 INC: 1.00 AZ: 184.40

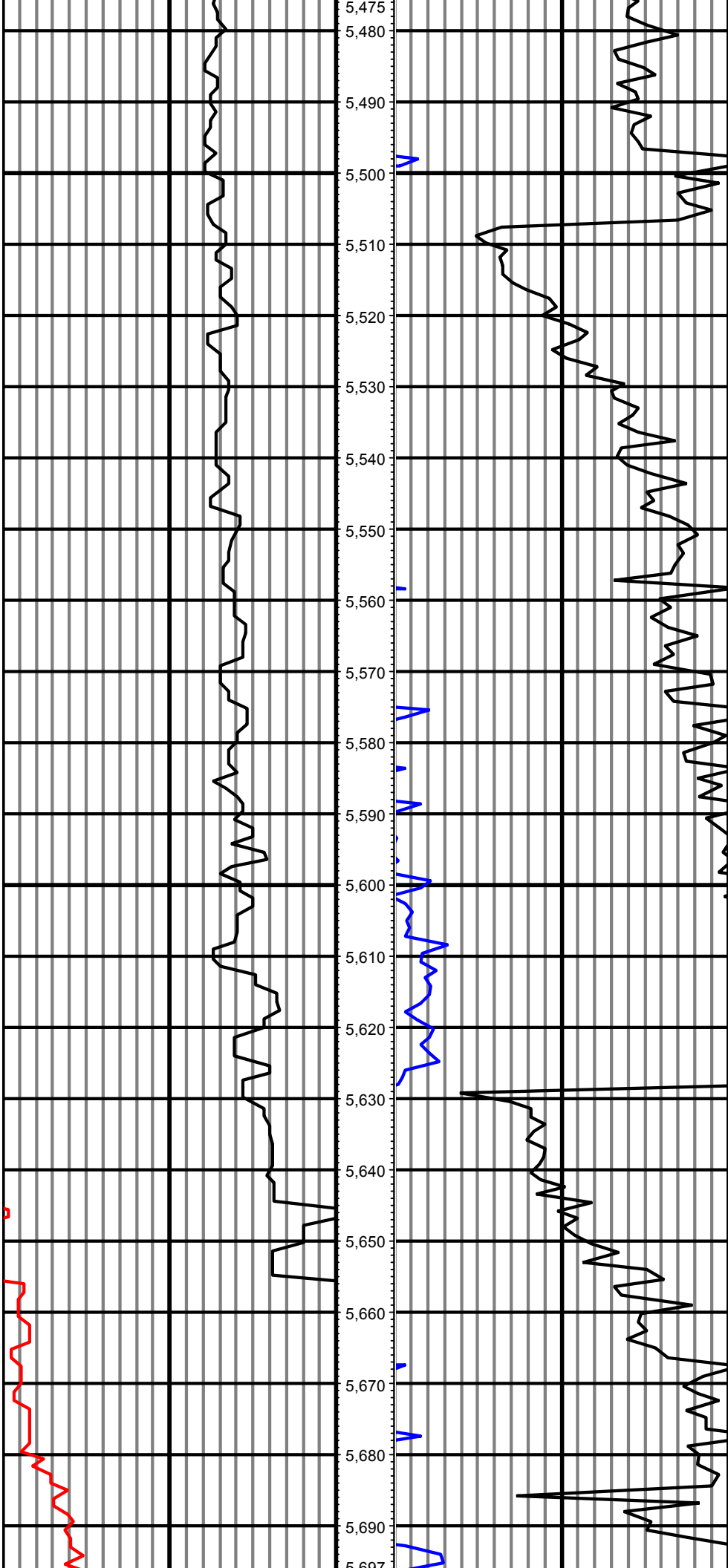
MD: 5155.00 INC: 11.30 AZ: 249.30

MD: 5249.00 INC: 18.10 AZ: 263.00



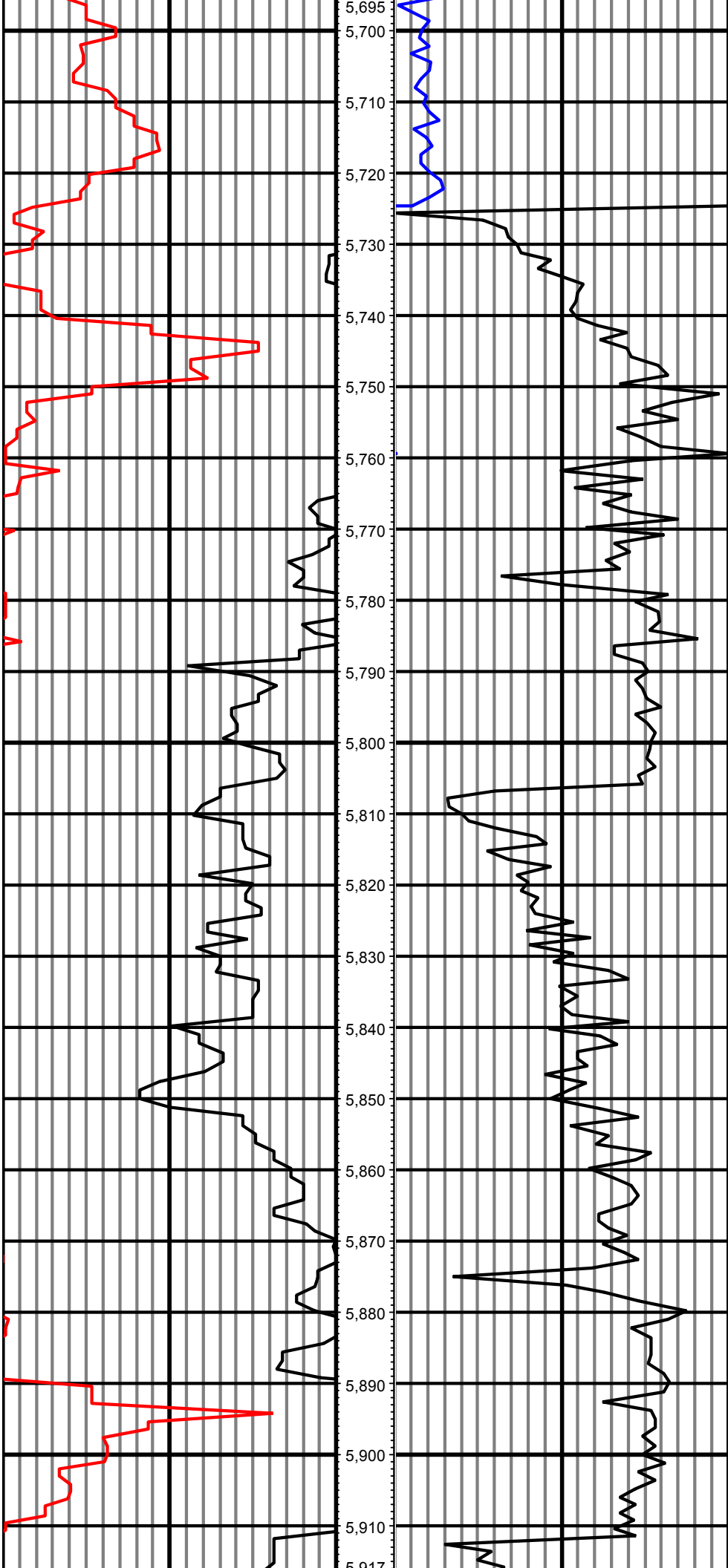
MD: 5344.00 INC: 25.10 AZ: 270.30

MD: 5439.00 INC: 31.80 AZ: 264.20



MD: 5533.00 INC: 40.90 AZ: 262.10

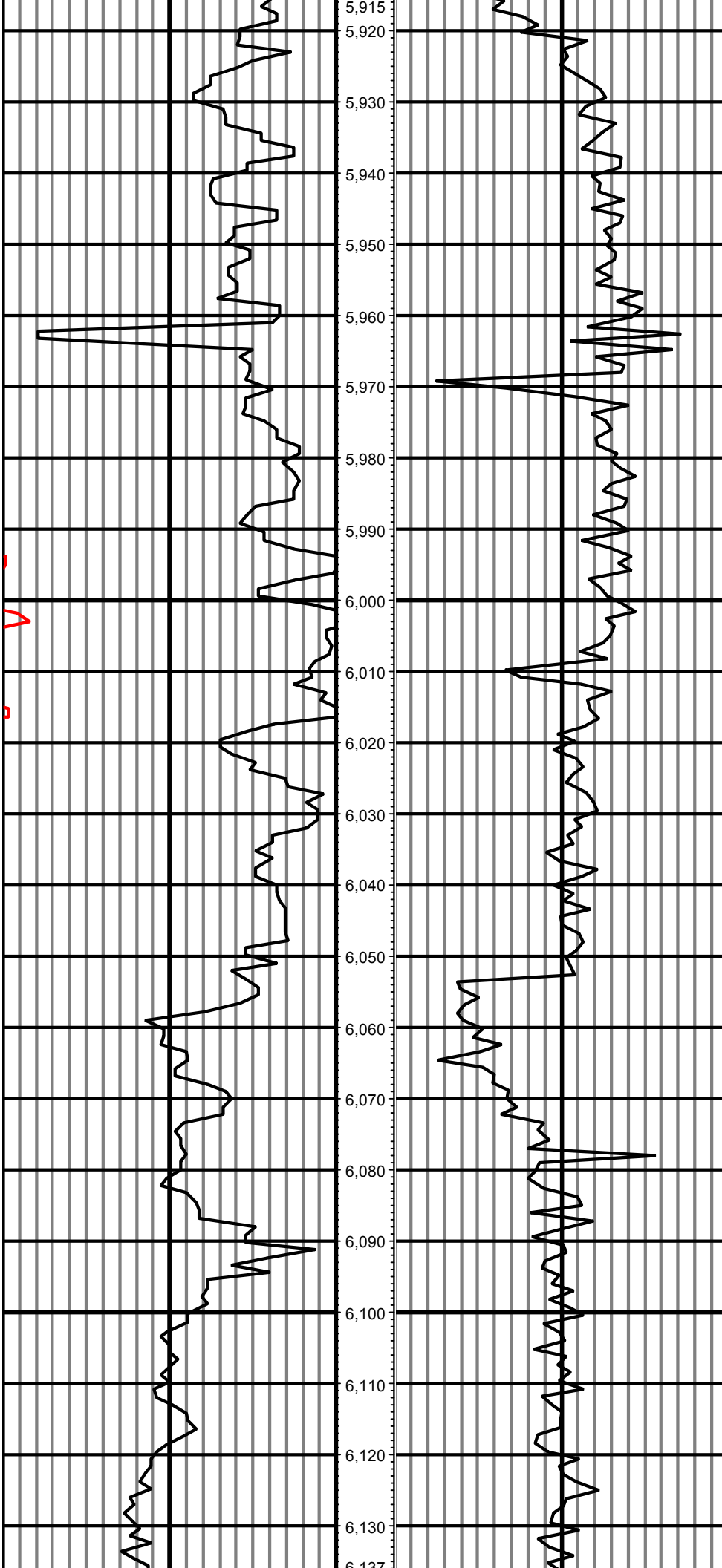
MD: 5628.00 INC: 47.60 AZ: 264.40



MD: 5722.00 INC: 53.40 AZ: 267.70

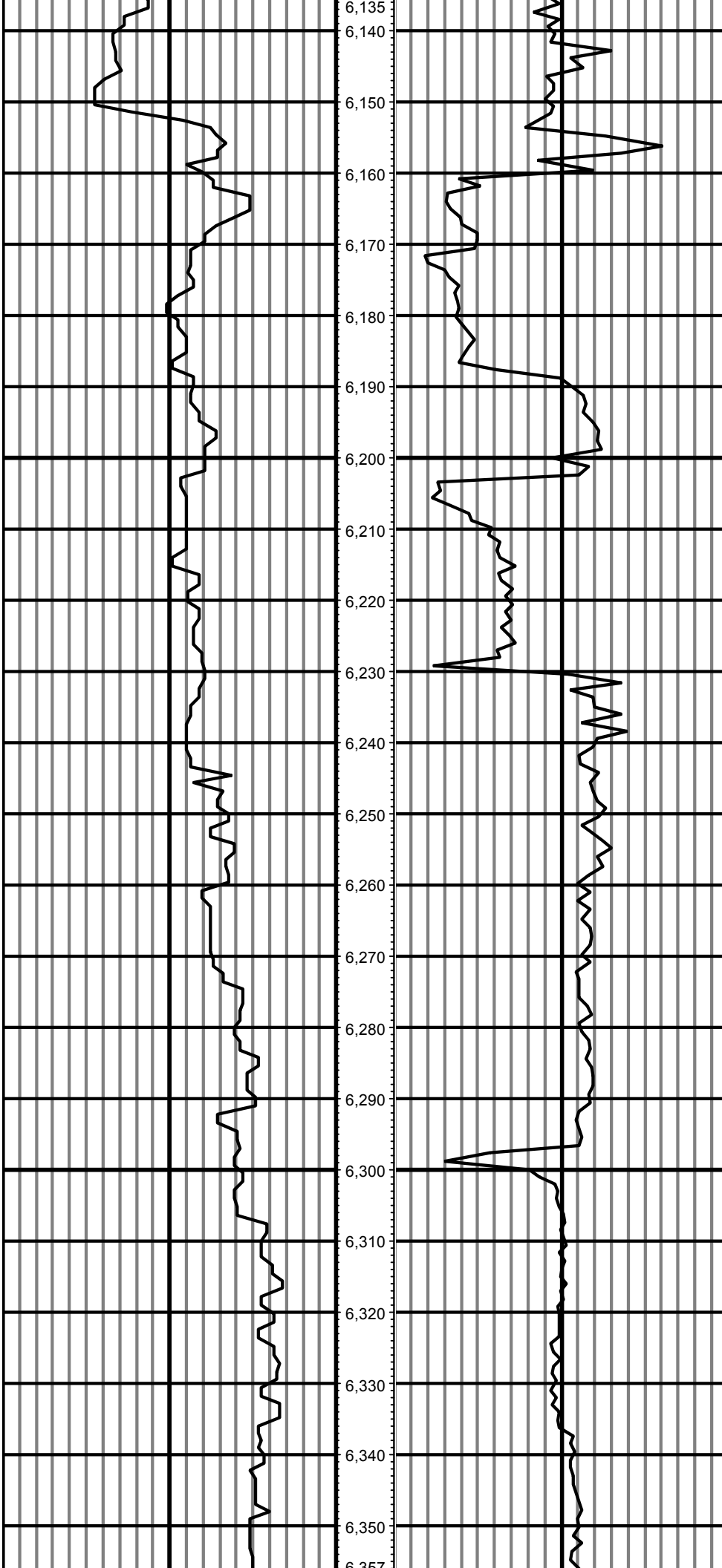
MD: 5817.00 INC: 59.70 AZ: 270.00

MD: 5912.00 INC: 66.80 AZ: 271.40



MD: 6006.00 INC: 72.40 AZ: 270.00

MD: 6095.00 INC: 78.20 AZ: 270.20

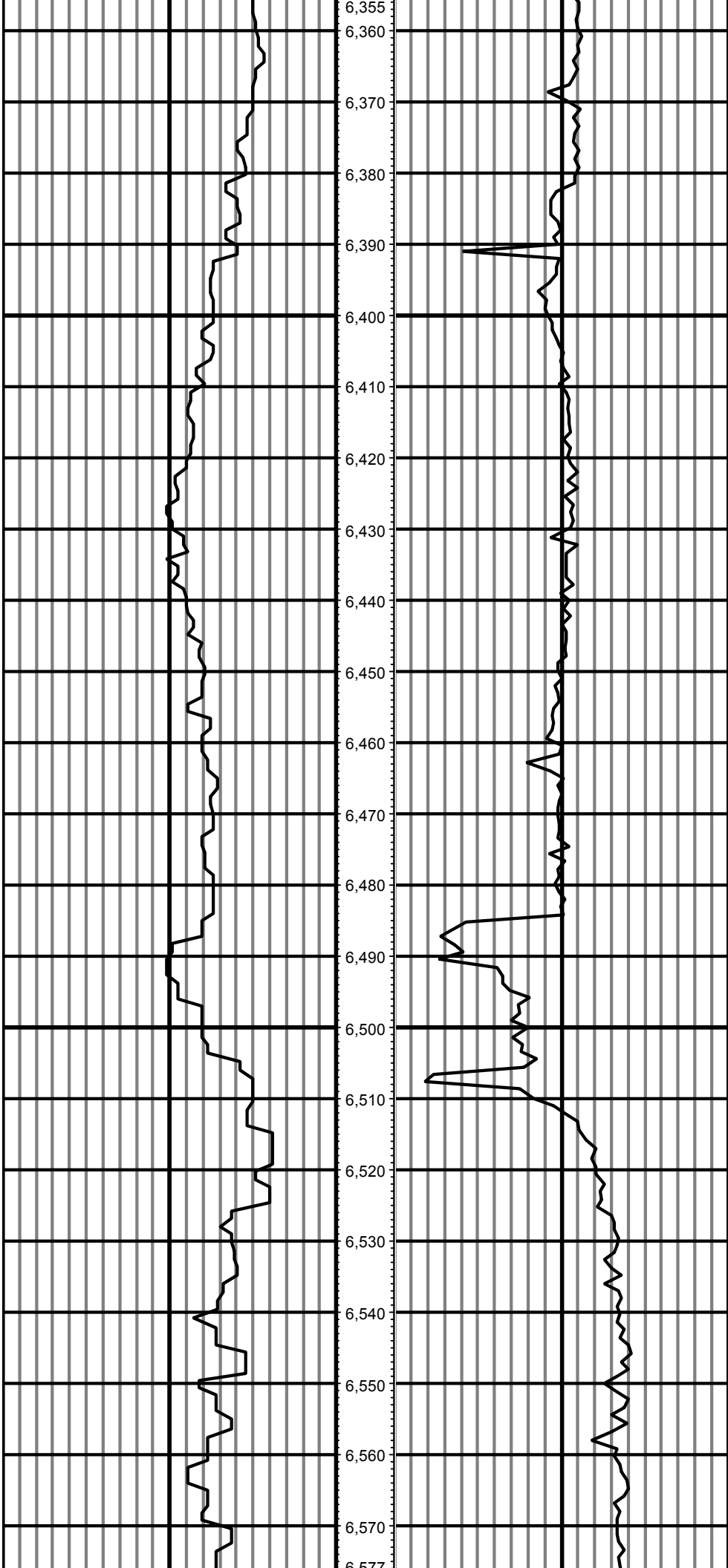


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MD: 6231.00 INC: 90.30 AZ: 269.60

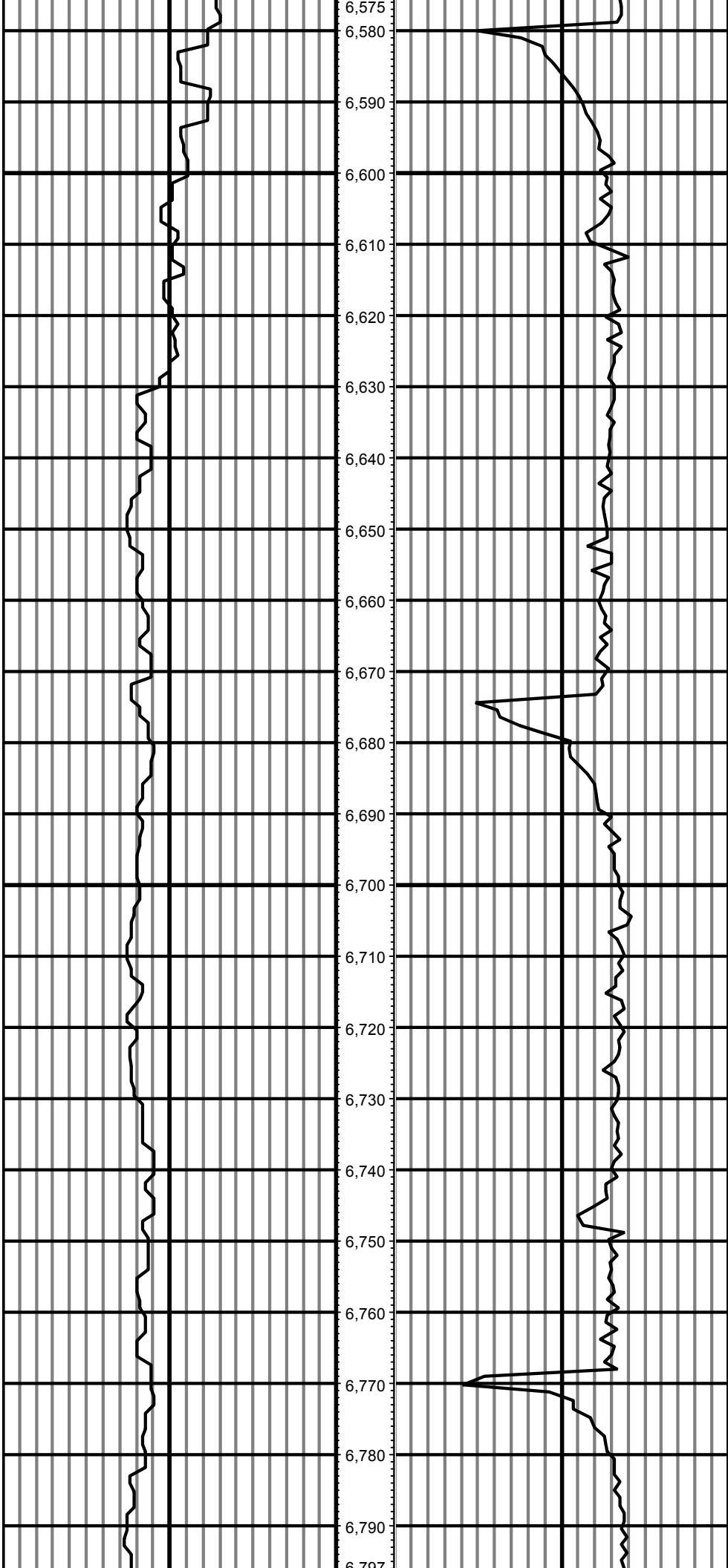
MD: 6326.00 INC: 89.90 AZ: 269.50





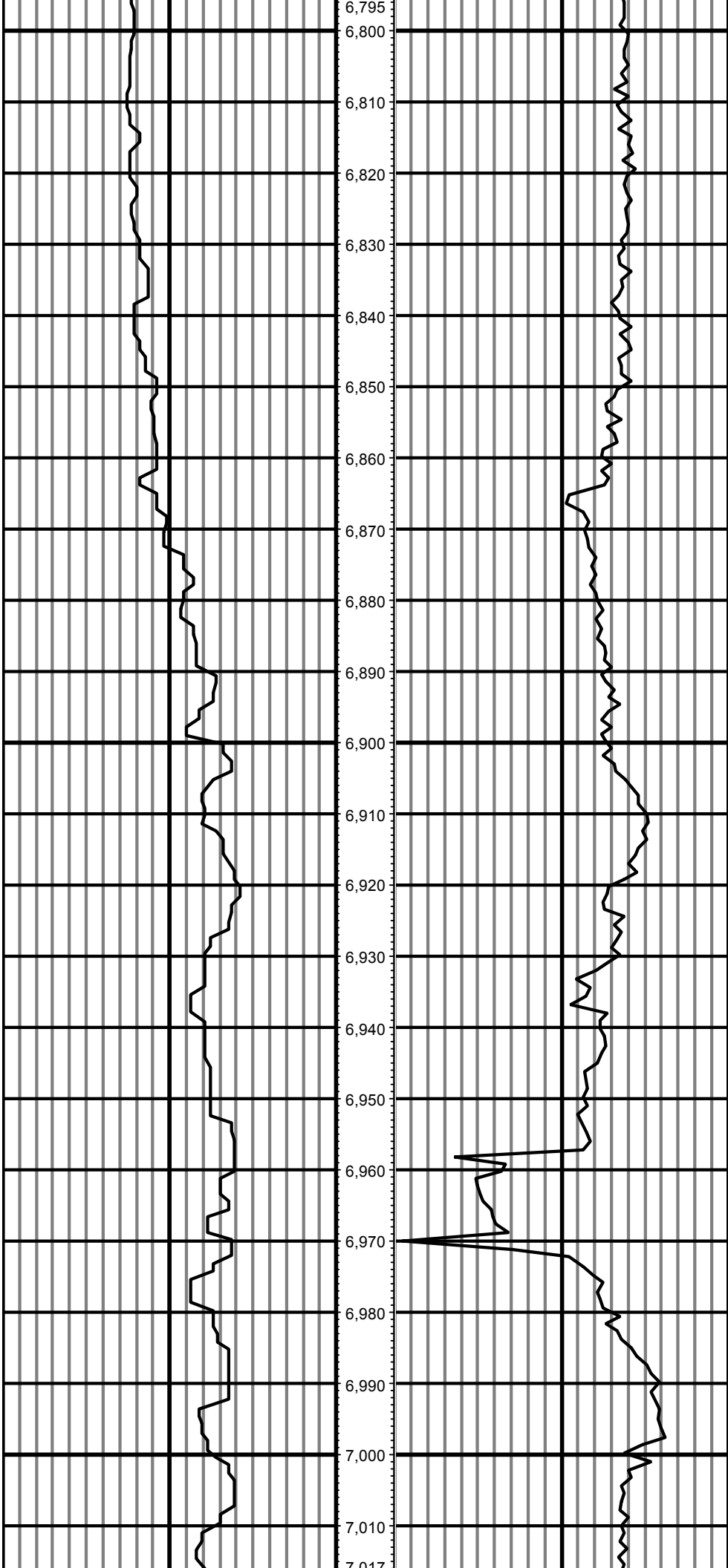
MD: 6421.00 INC: 90.40 AZ: 269.50

MD: 6515.00 INC: 89.00 AZ: 268.60



MD: 6609.00 INC: 89.00 AZ: 268.80

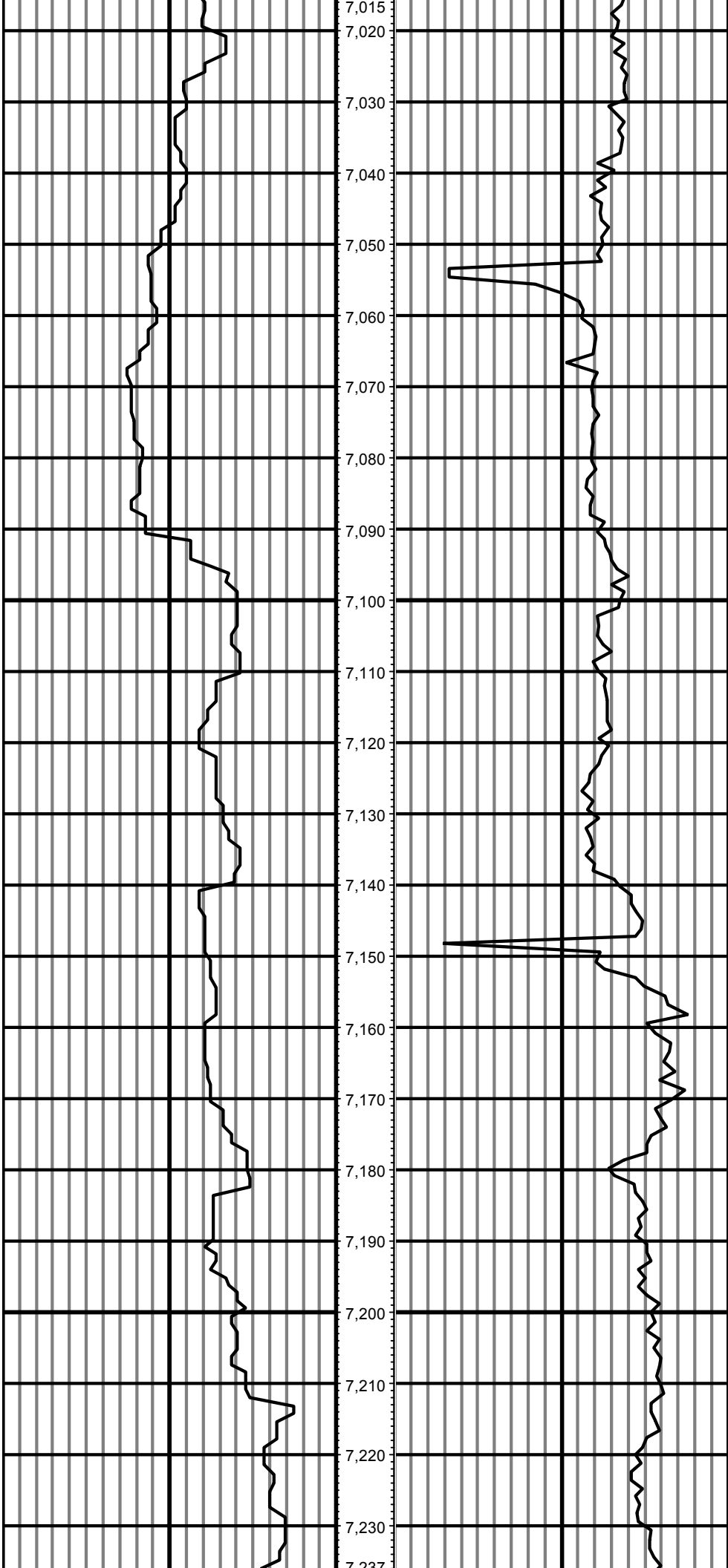
MD: 6704.00 INC: 89.20 AZ: 268.80

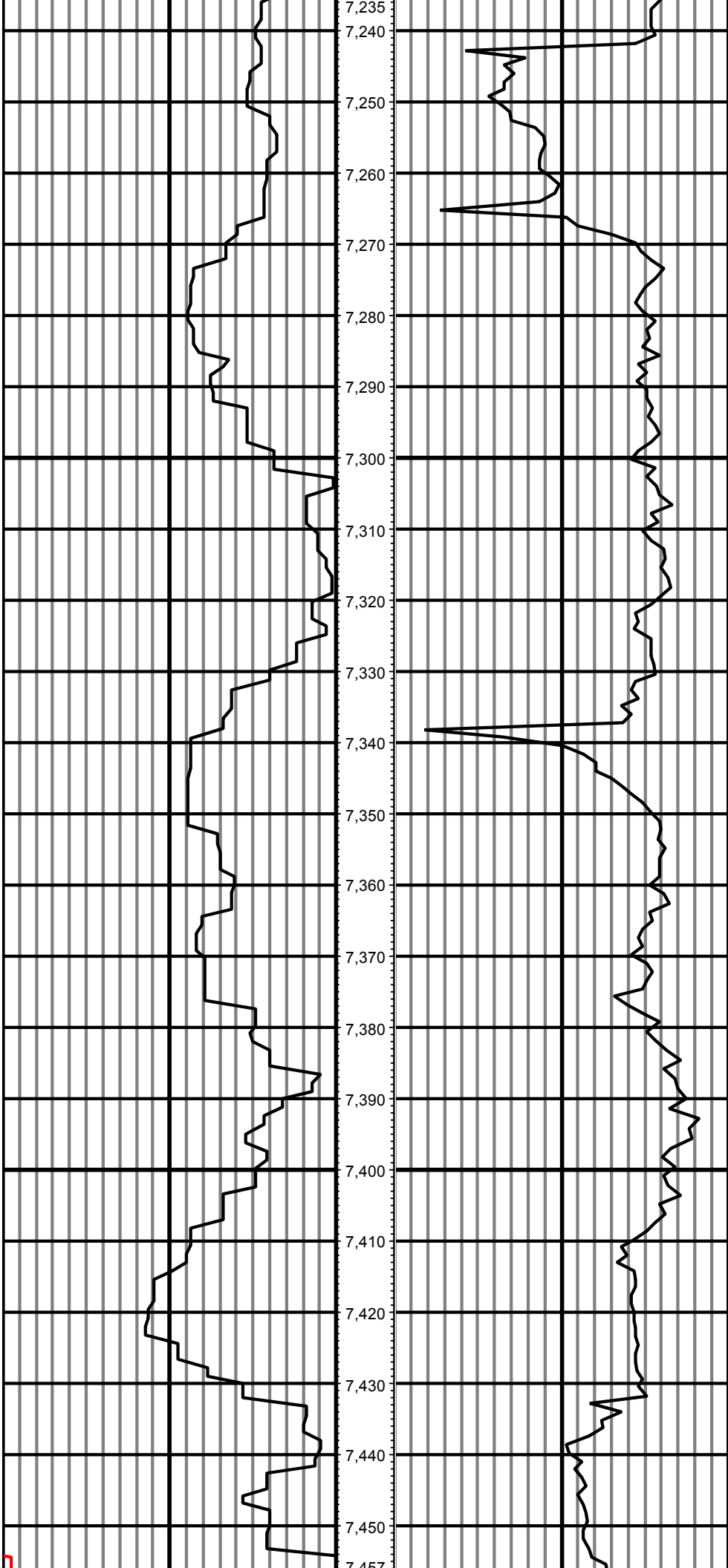


MD: 6798.00 INC: 89.30 AZ: 268.60

MD: 6893.00 INC: 89.70 AZ: 268.80

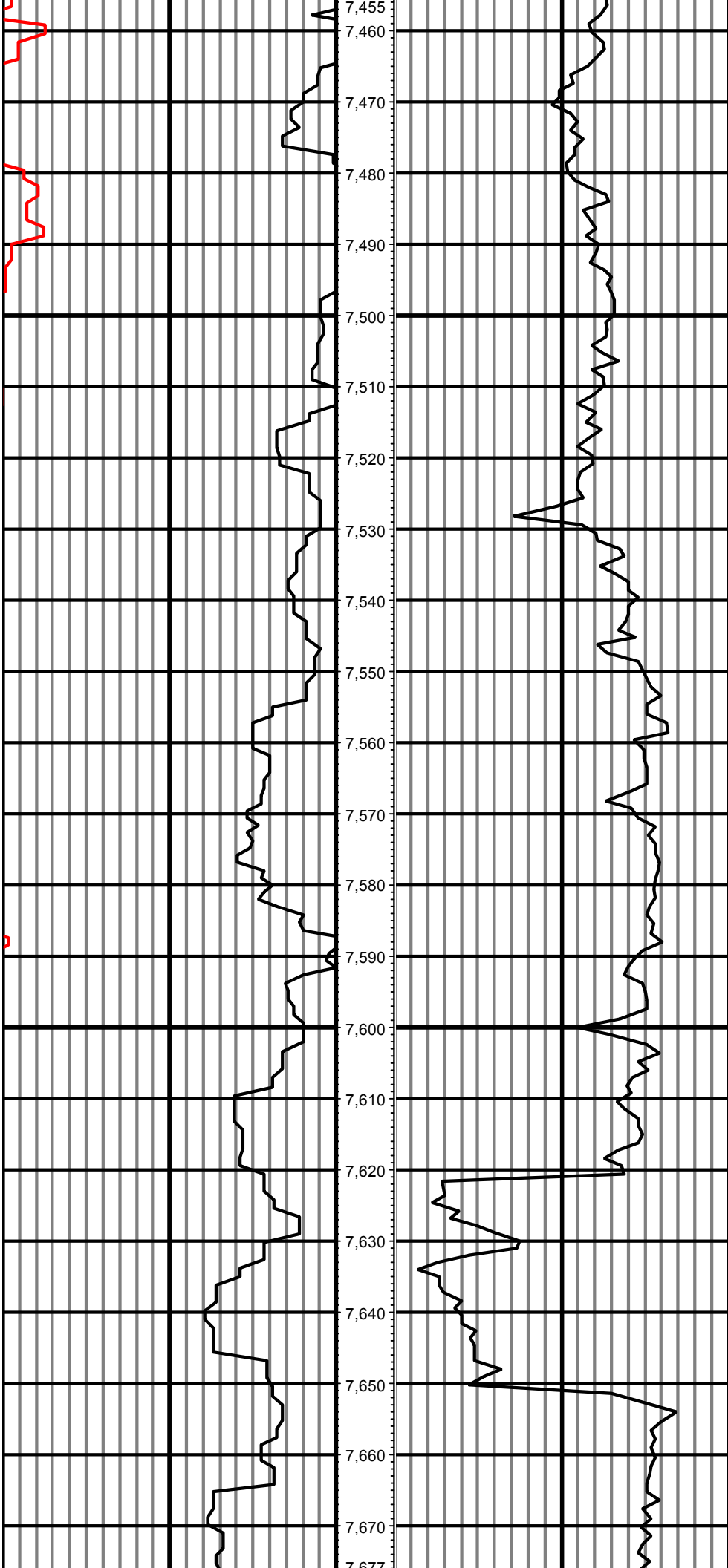
MD: 6988.00 INC: 88.20 AZ: 268.40





MD: 7273.00 INC: 89.20 AZ: 268.20

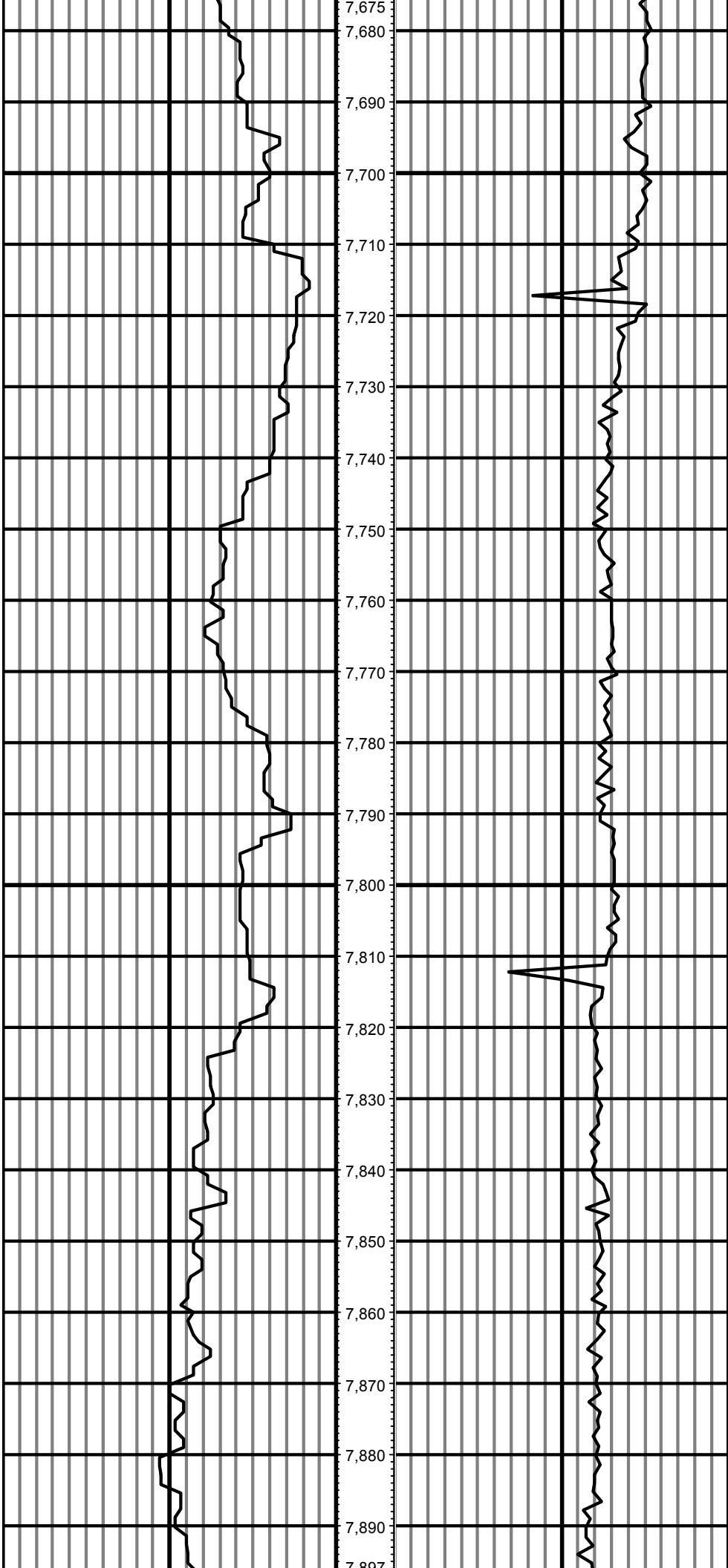
MD: 7368.00 INC: 89.70 AZ: 267.90



MD: 7463.00 INC: 90.30 AZ: 267.70

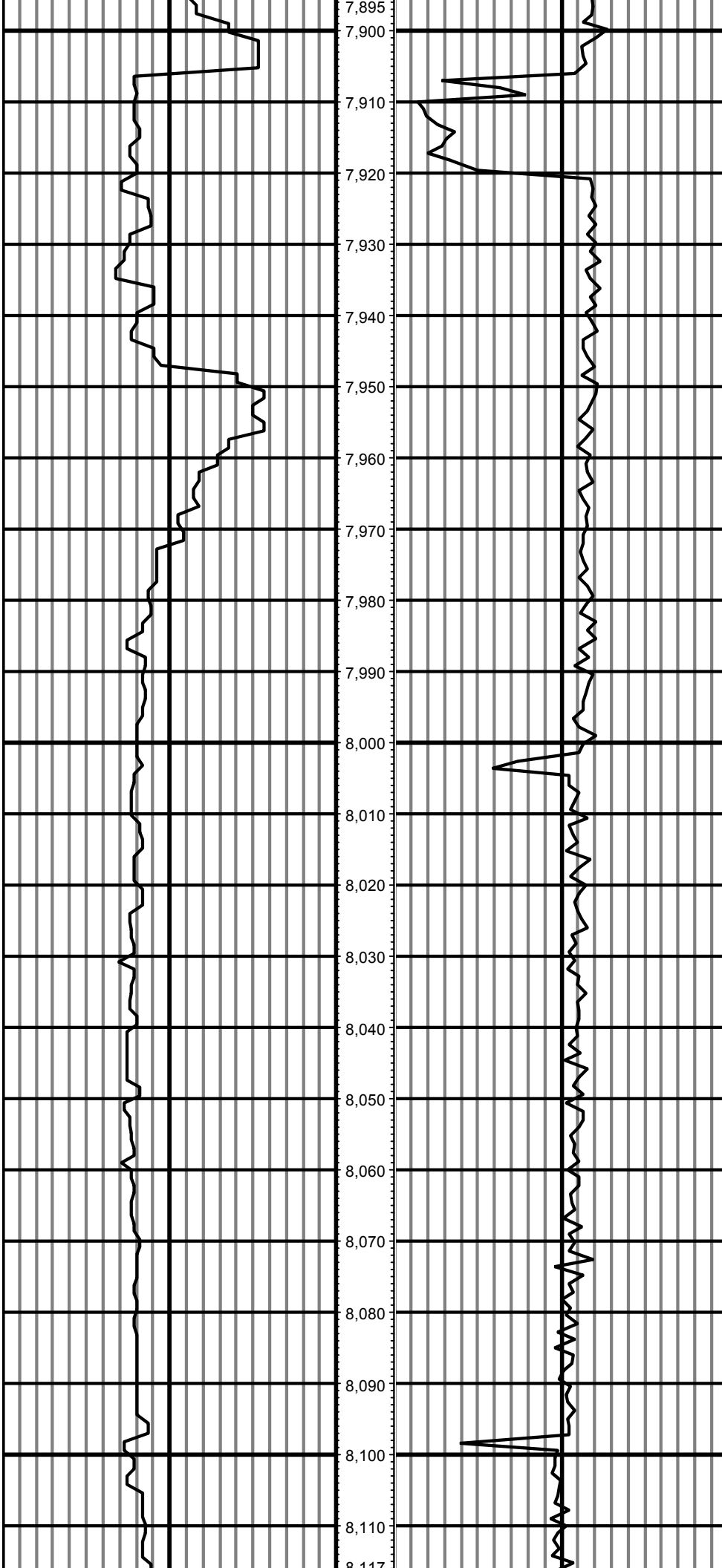
MD: 7558.00 INC: 91.00 AZ: 267.50

MD: 7653.00 INC: 89.00 AZ: 268.80



MD: 7748.00 INC: 89.10 AZ: 268.40

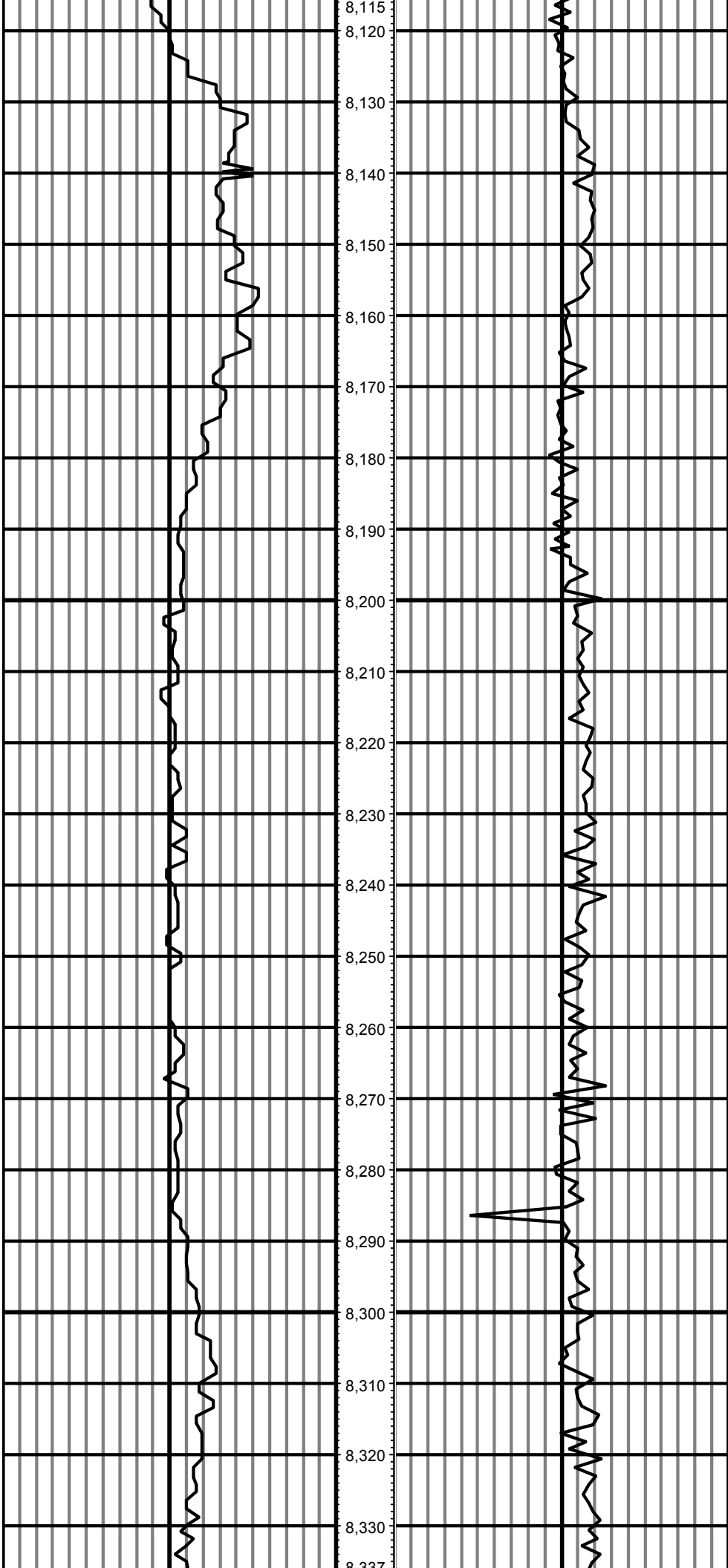
MD: 7842.00 INC: 89.50 AZ: 268.60



MD: 7937.00 INC: 89.30 AZ: 269.60

MD: 8031.00 INC: 89.40 AZ: 269.60

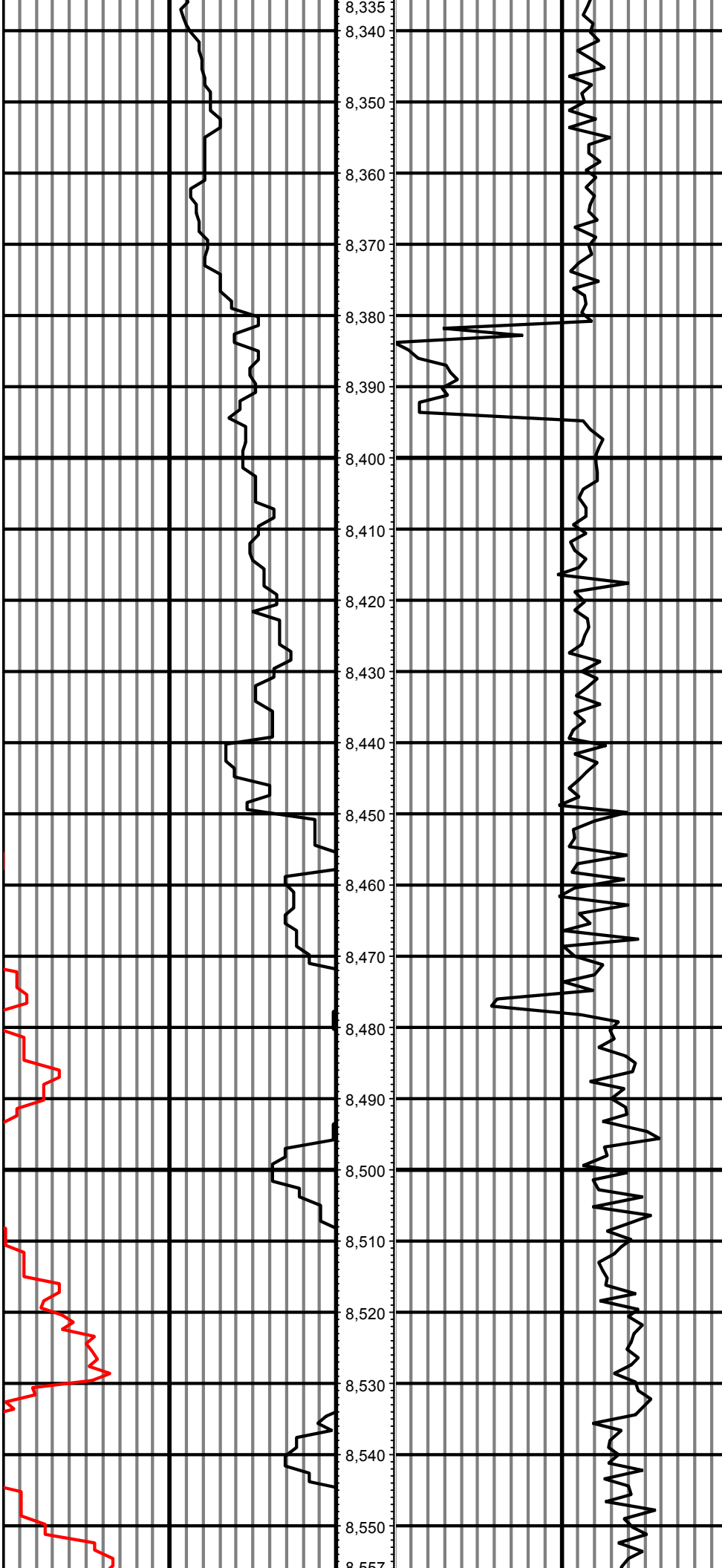




MD: 8126.00 INC: 89.30 AZ: 269.30

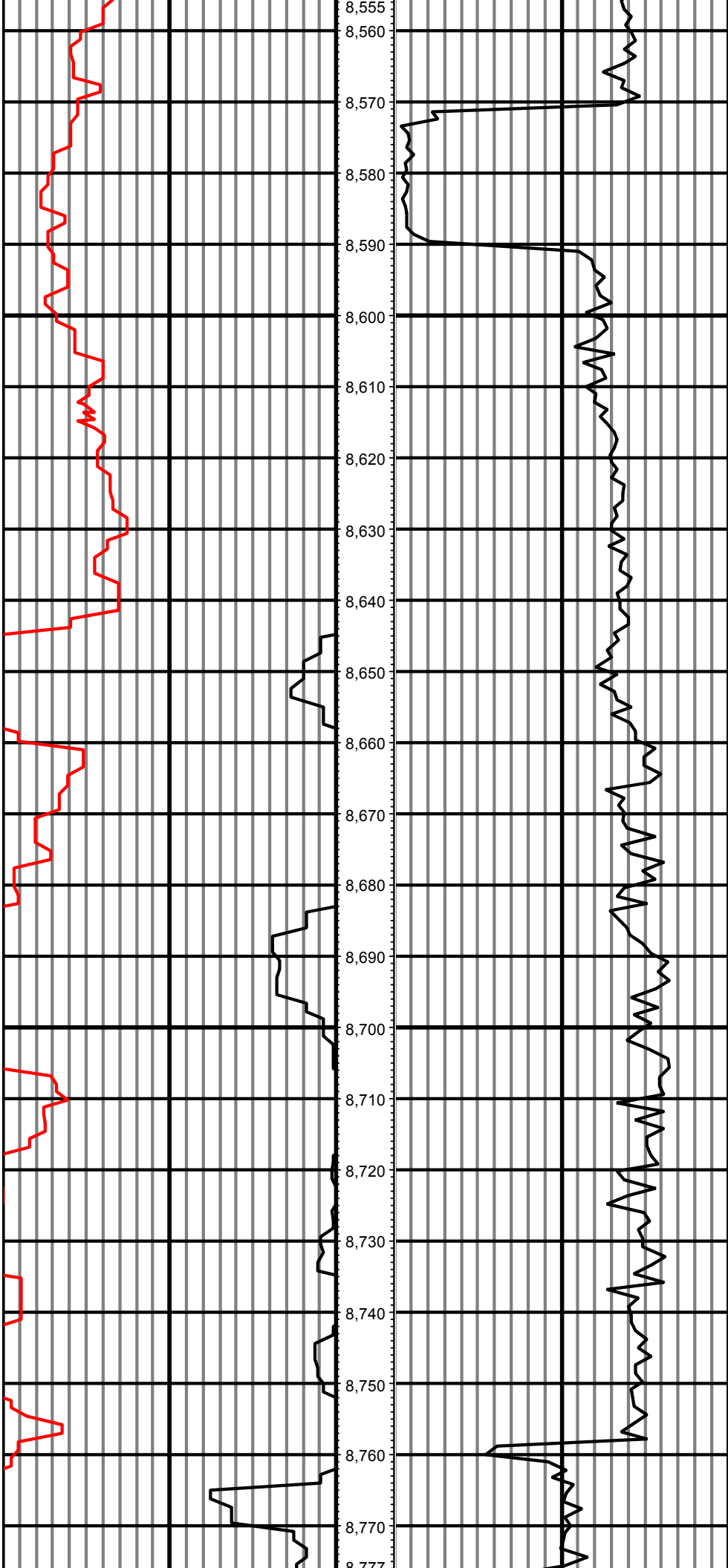
MD: 8221.00 INC: 89.20 AZ: 269.10

MD: 8315.00 INC: 88.90 AZ: 268.80



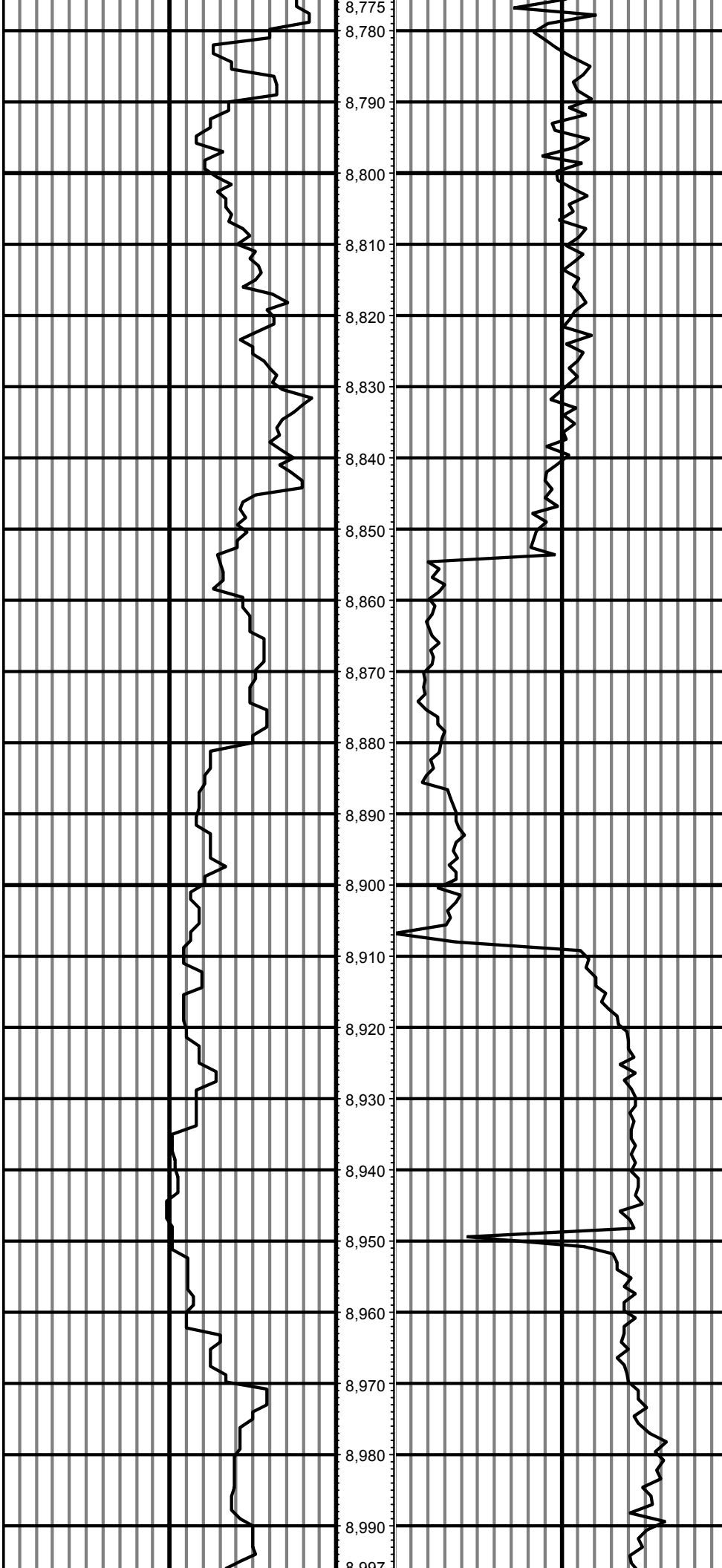
MD: 8410.00 INC: 88.30 AZ: 269.80

MD: 8505.00 INC: 87.80 AZ: 269.60



MD: 8599.00 INC: 90.10 AZ: 269.50

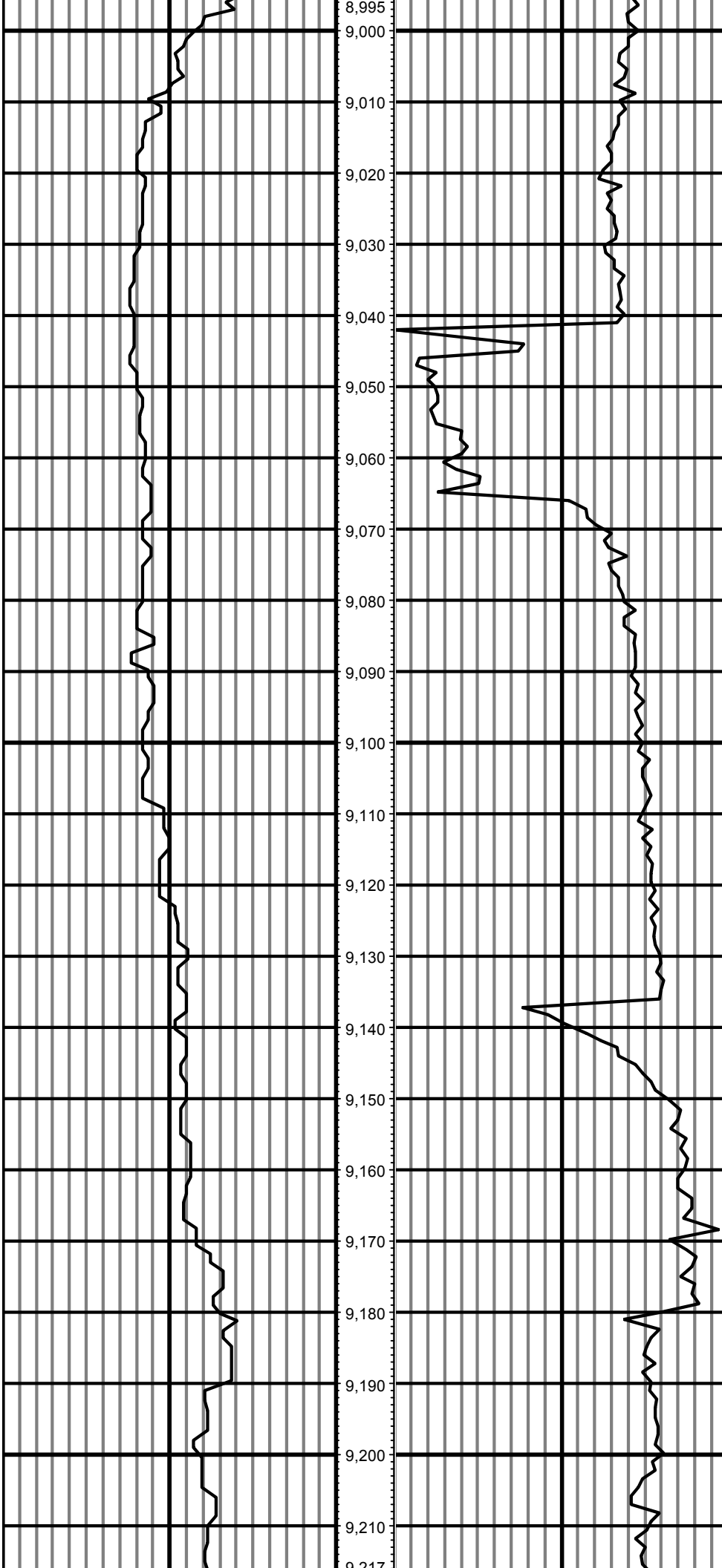
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MD: 8789.00 INC: 91.00 AZ: 268.90

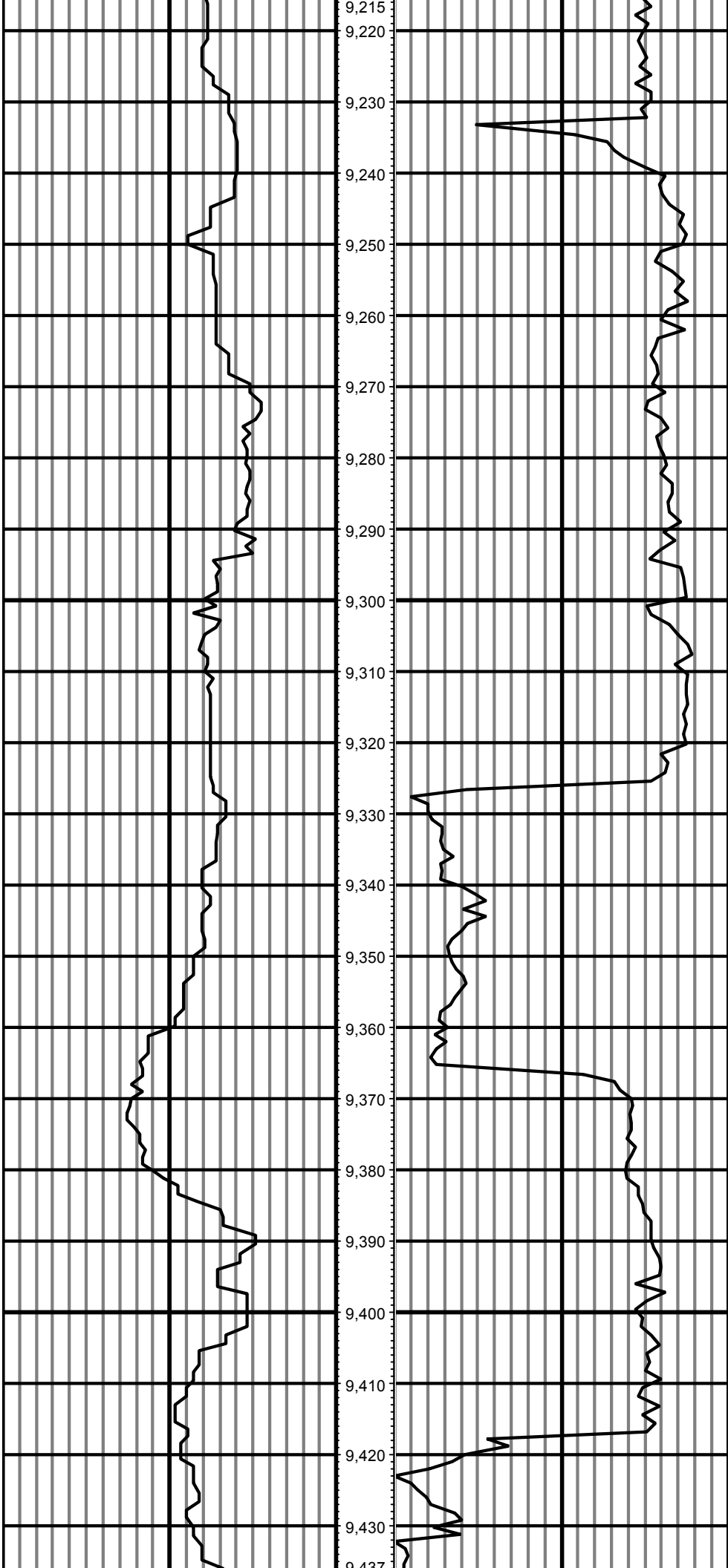
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MD: 8977.00 INC: 89.70 AZ: 271.80



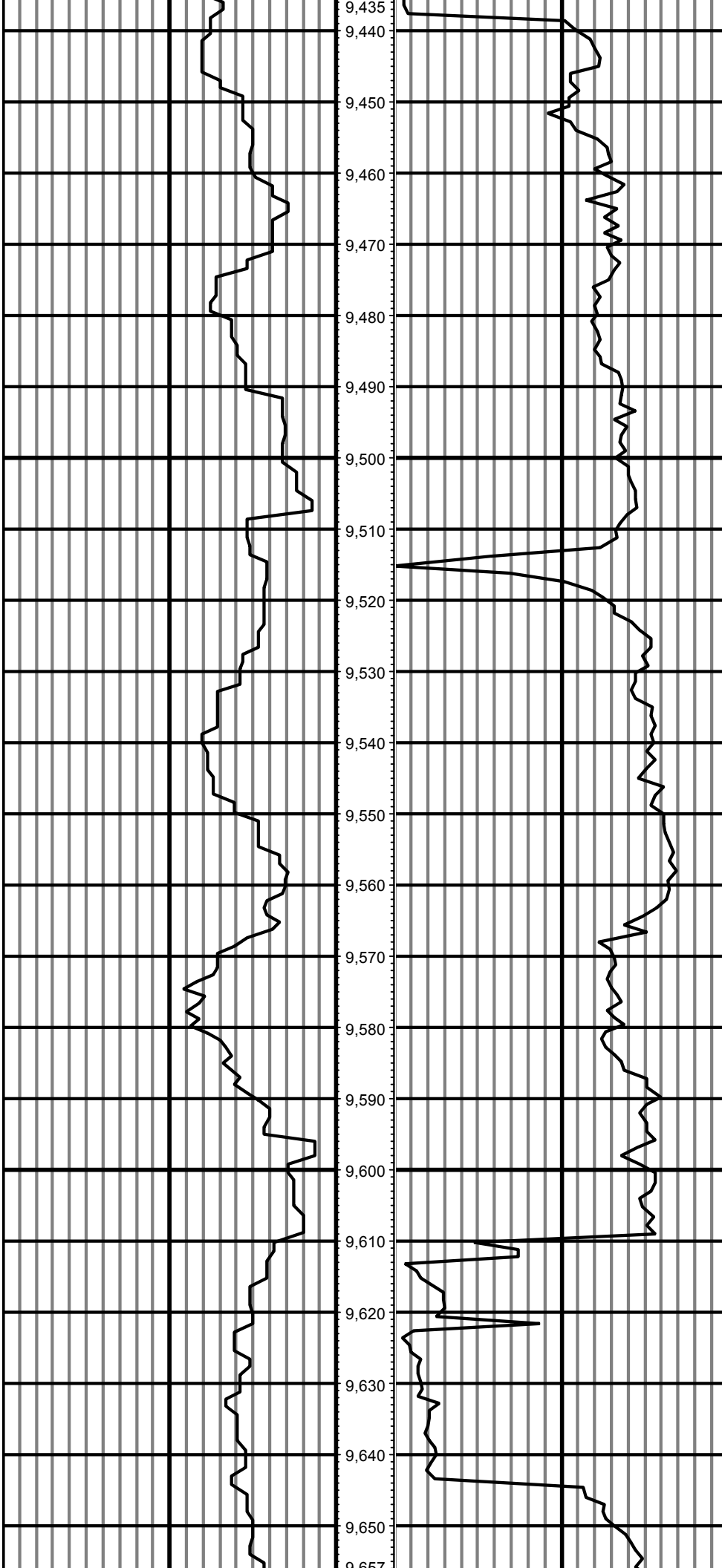
MD: 9072.00 INC: 88.50 AZ: 272.50

MD: 9167.00 INC: 88.90 AZ: 272.50



MD: 9261.00 INC: 89.50 AZ: 273.00

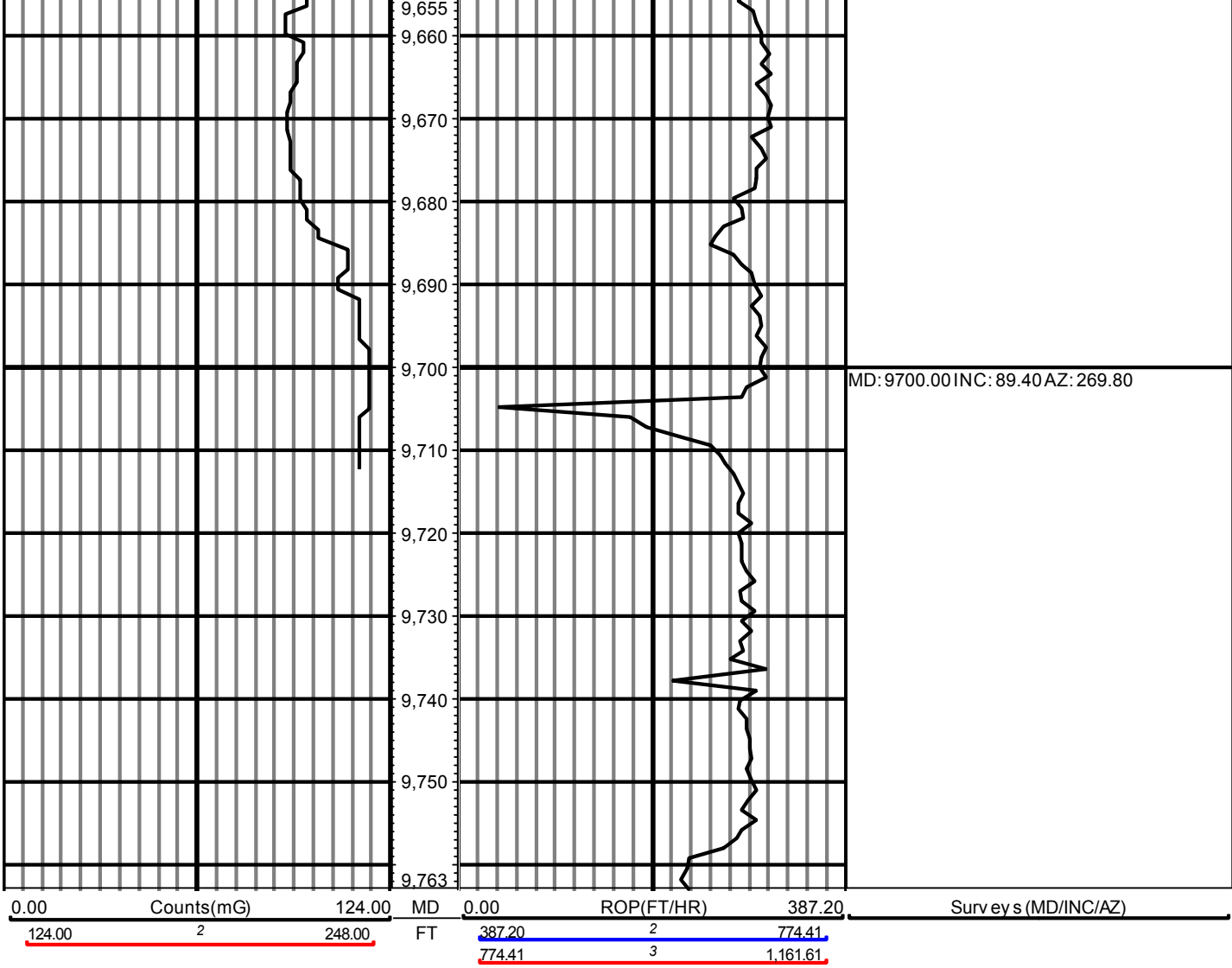
MD: 9356.00 INC: 86.80 AZ: 272.30



MD: 9450.00 INC: 86.90 AZ: 270.90

MD: 9545.00 INC: 86.40 AZ: 270.70

MD: 9640.00 INC: 89.80 AZ: 269.80







DDC

**RM-13829**

1":100' - MD

10/28/2013 5:20:19 PM

**Oper. Company:** Noble Energy

**Country:** USA

**State / Province:** Colorado

**County / Parish:** Weld

**Started:** 10/23/2013 08:30 PM

**API/UWI:** 05-123-37530

**Field:** Wattenburg

**Well:** Rohn State LD09-65HN

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### Personnel

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**Comp. Emp:**

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**Elev. DF:** 30

**Elev. KB:** 4746

FINAL

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0.00 Counts(mG) 124.00 MD 0.00 ROP(FT/HR) 387.20 Surveys (MD/INC/AZ)  
 124.00 2 248.00 FT 387.20 2 774.41  
 774.41 3 1,161.61

