



## Temperature Casing Collar Log

Company TEP Rocky Mountain LLC  
Well Federal WMC 13-20  
Field Rulison  
County Garfield  
State Colorado

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Well Federal WMC 13-20  
Field Rulison  
County Garfield  
State Colorado

Location: API # : 05-045-24496

Other Services

SEC 17 TWP 7S RGE 93W

Elevation

Permanent Datum Ground Level Elevation 8869  
Log Measured From Kelly Bushing  
Drilling Measured From Kelly Bushing  
K.B. 8899 FT  
D.F. 8898 FT  
G.L. 8869 FT

Date

28-OCT-2022

Run Number

One

Depth Driller

11591 FT

Depth Logger

11508 FT

Bottom Logged Interval

11508 FT

Top Log Interval

Surface

Open Hole Size

8.75"

Type Fluid

Water

Density / Viscosity

8.34 Lb/Gal

Max. Recorded Temp.

242 °F

Estimated Cement Top

5820 FT

Time Well Ready

ROA

Time Logger on Bottom

09:30

Equipment Number

8047

Location

Grand Junction

Recorded By

A. Ellsworth

Witnessed By

G. Wade

Borehole Record

Tubing Record

Run Number

Bit

From

To

Size

Weight

From

To

Casing Record

Size

Wgt/Ft

Top

Bottom

Surface String

9-5/8"

36

Surface

1134 FT

Prot. String

4-1-2"

11.6

Surface

11581 FT

Production String

4-1-2"

11.6

Surface

11581 FT

Liner

4-1-2"

11.6

Surface

11581 FT

<<< Fold Here >>>

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, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

### Comments

Log ran as per customer request  
Depth referenced to Kelly Bushing at 30 FT  
Thank you for choosing The Wireline Group!



Main Pass (Quick Look)

Database File tep\_fed wmc 13-20\_temp\_10-28-2022.db  
Dataset Pathname main  
Presentation Format ros\_temp\_ql\_tep  
Dataset Creation Fri Oct 28 08:49:06 2022  
Charted by Depth in Feet scaled 1:10000

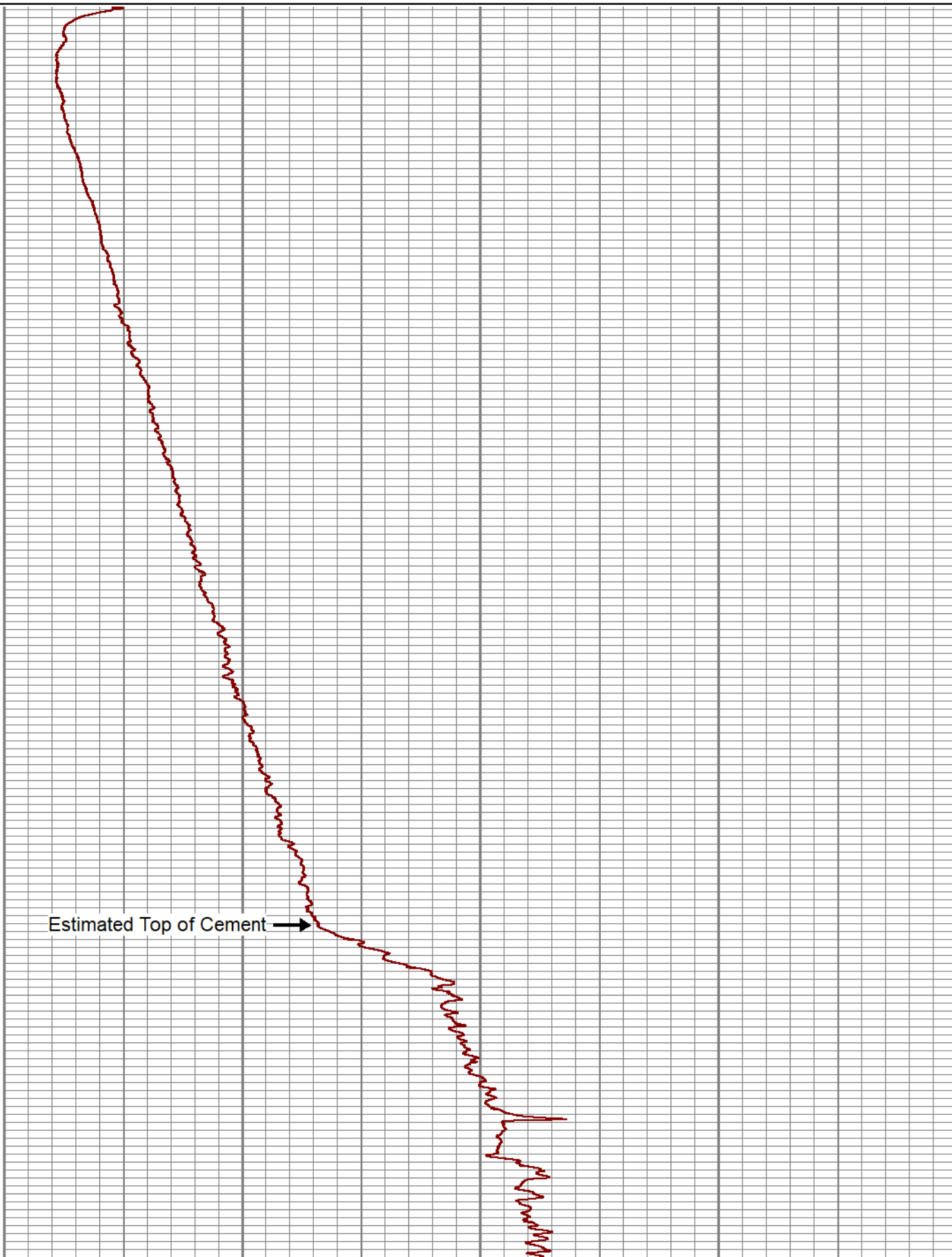
50

GCT\_Temp (degF)

250

500  
1000  
1500  
2000  
2500  
3000  
3500  
4000  
4500  
5000  
5500  
6000  
6500  
7000  
7500

Estimated Top of Cement →

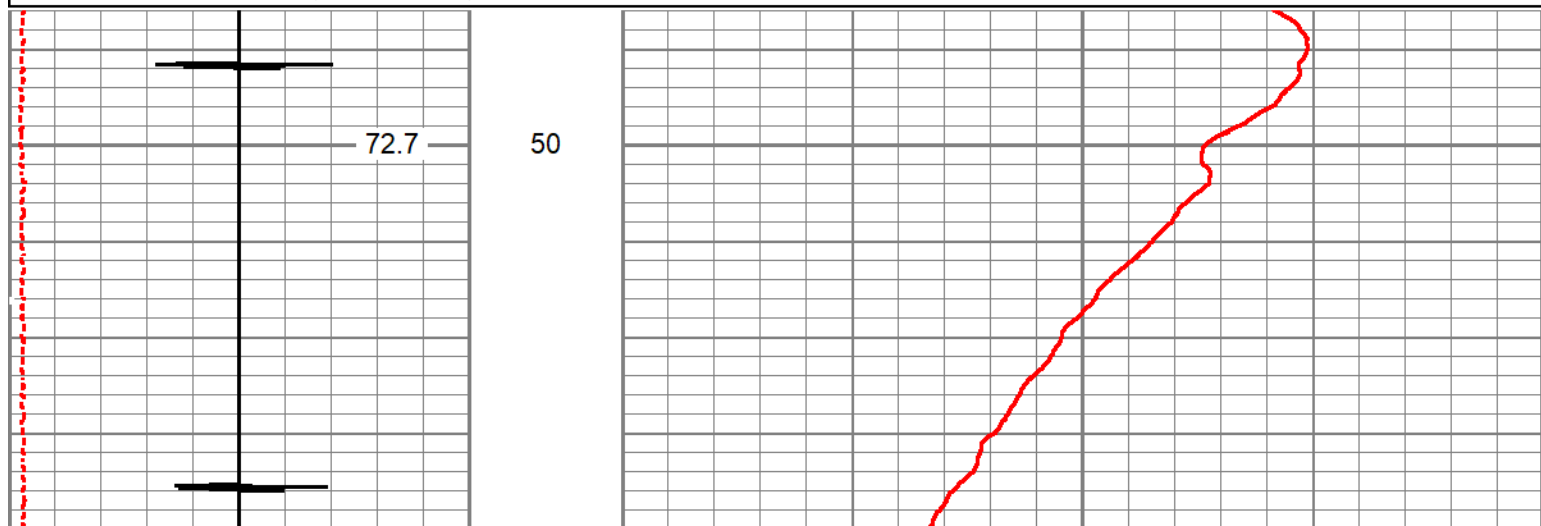


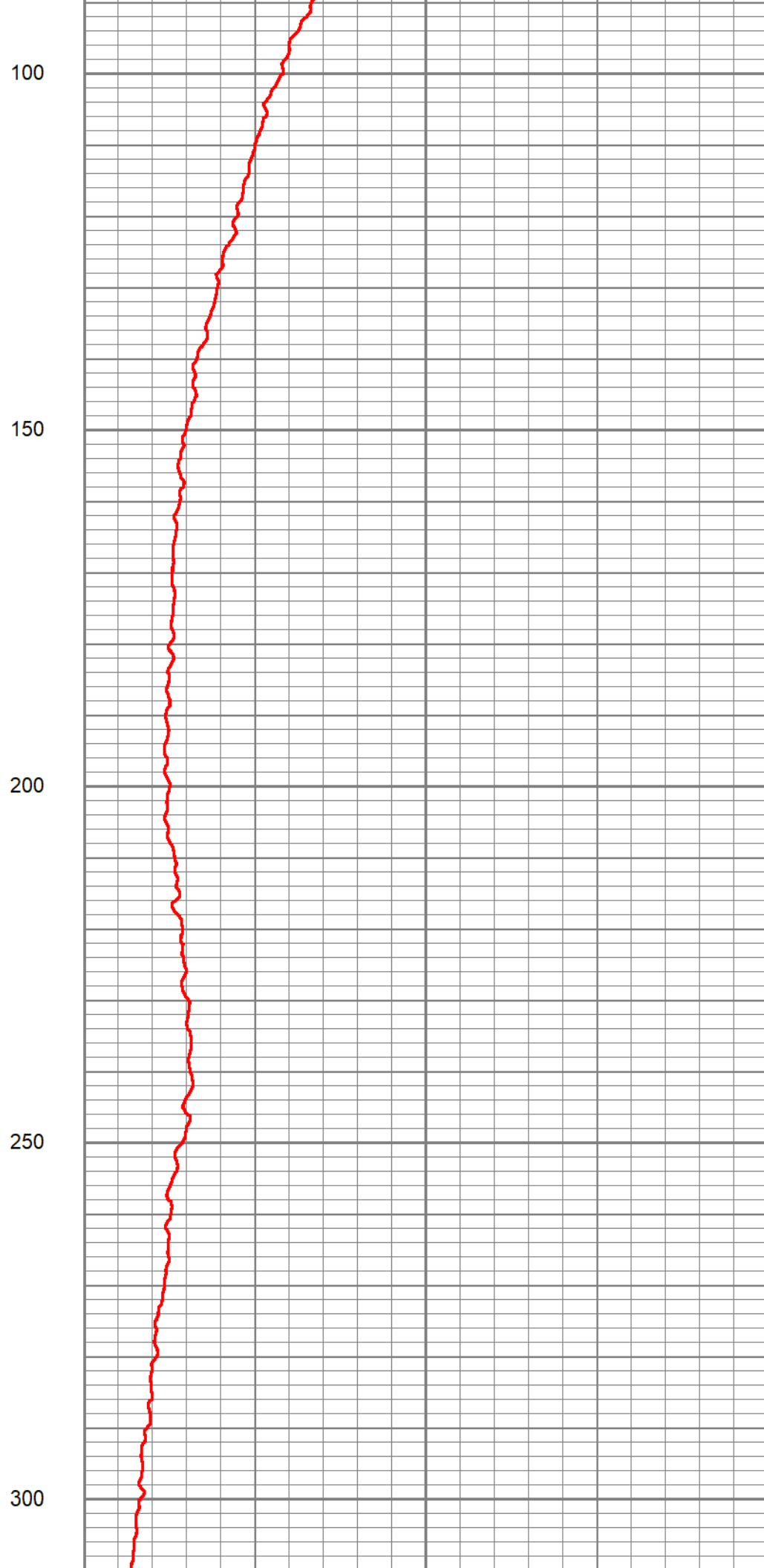
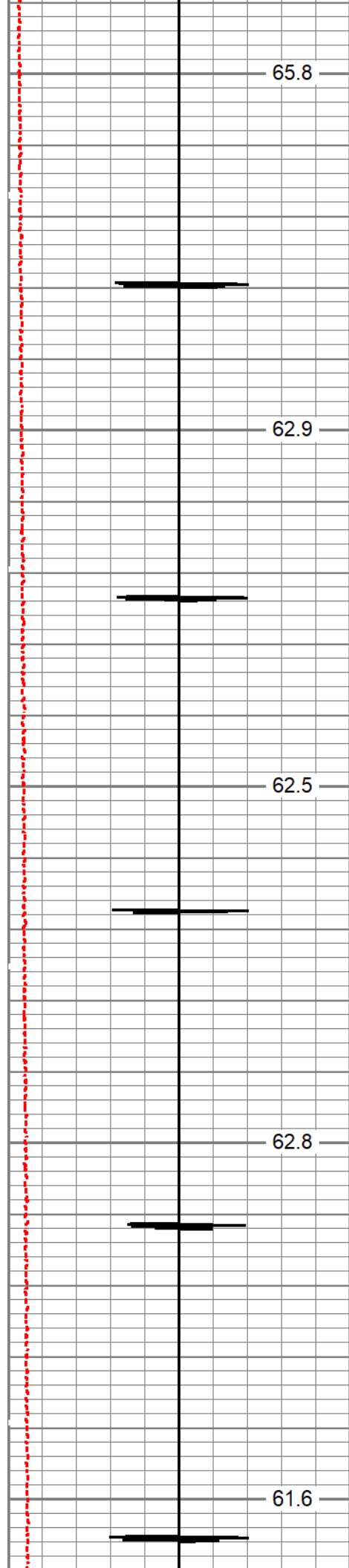


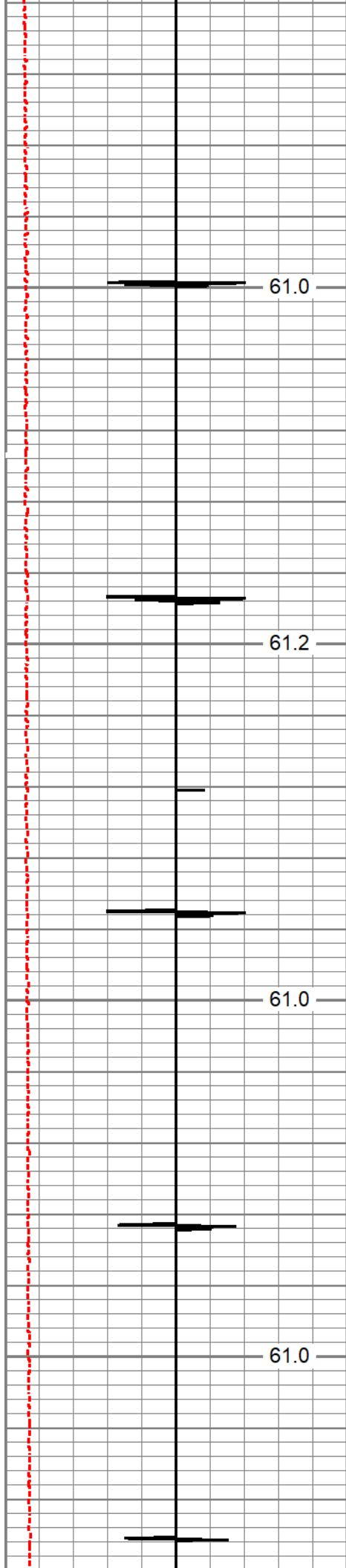
Main Pass 5" = 100'

Database File	tep_fed wmc 13-20_temp_10-28-2022.db
Dataset Pathname	main
Presentation Format	gct_tmp
Dataset Creation	Fri Oct 28 08:49:06 2022
Charted by	Depth in Feet scaled 1:240

5	CCL\$1	-5	100	GCT_Temp (degF)	120
0	LTEN (lb)	1500			
	GCT_Temp (degF)				





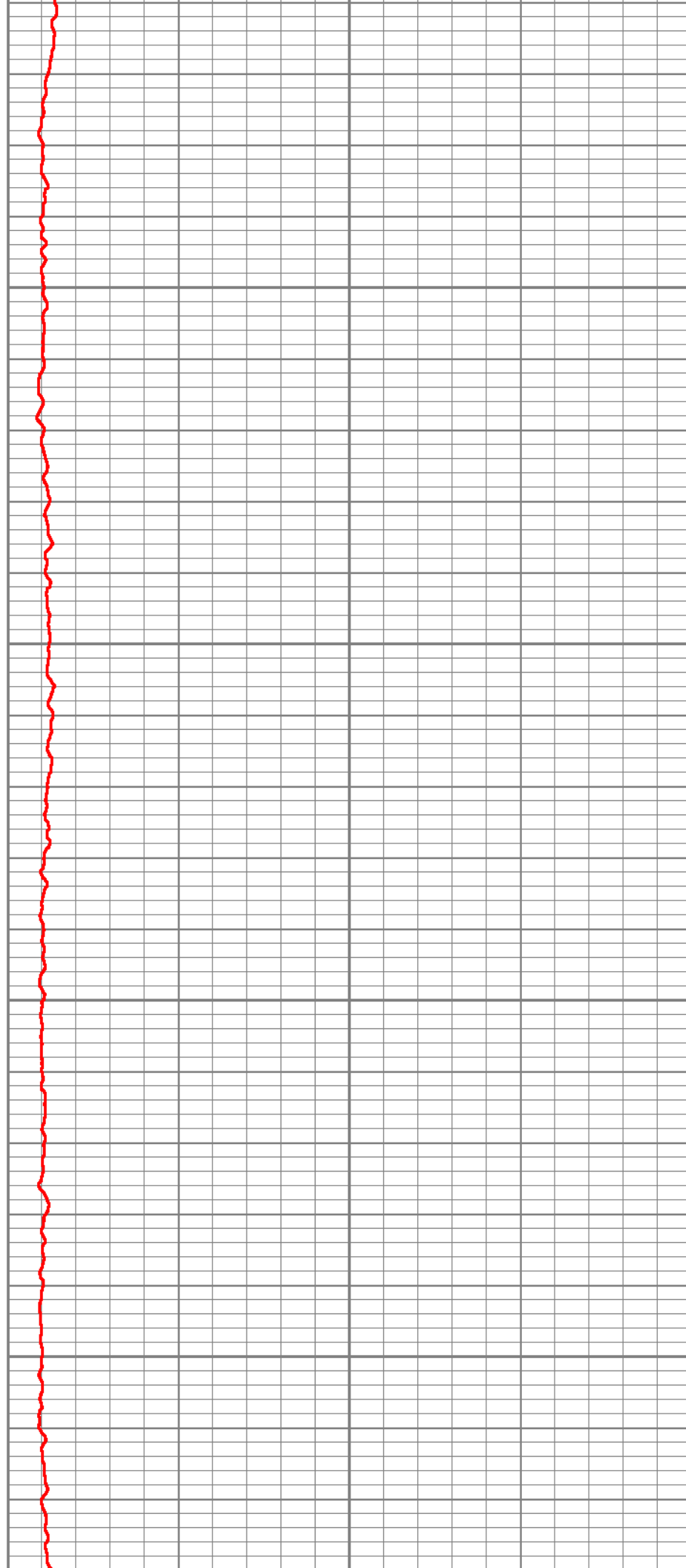


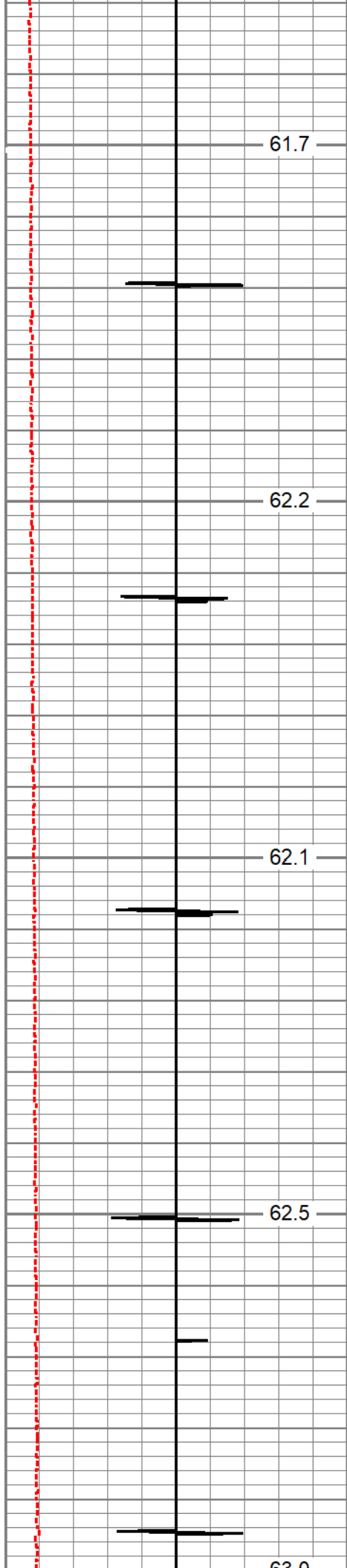
350

400

450

500





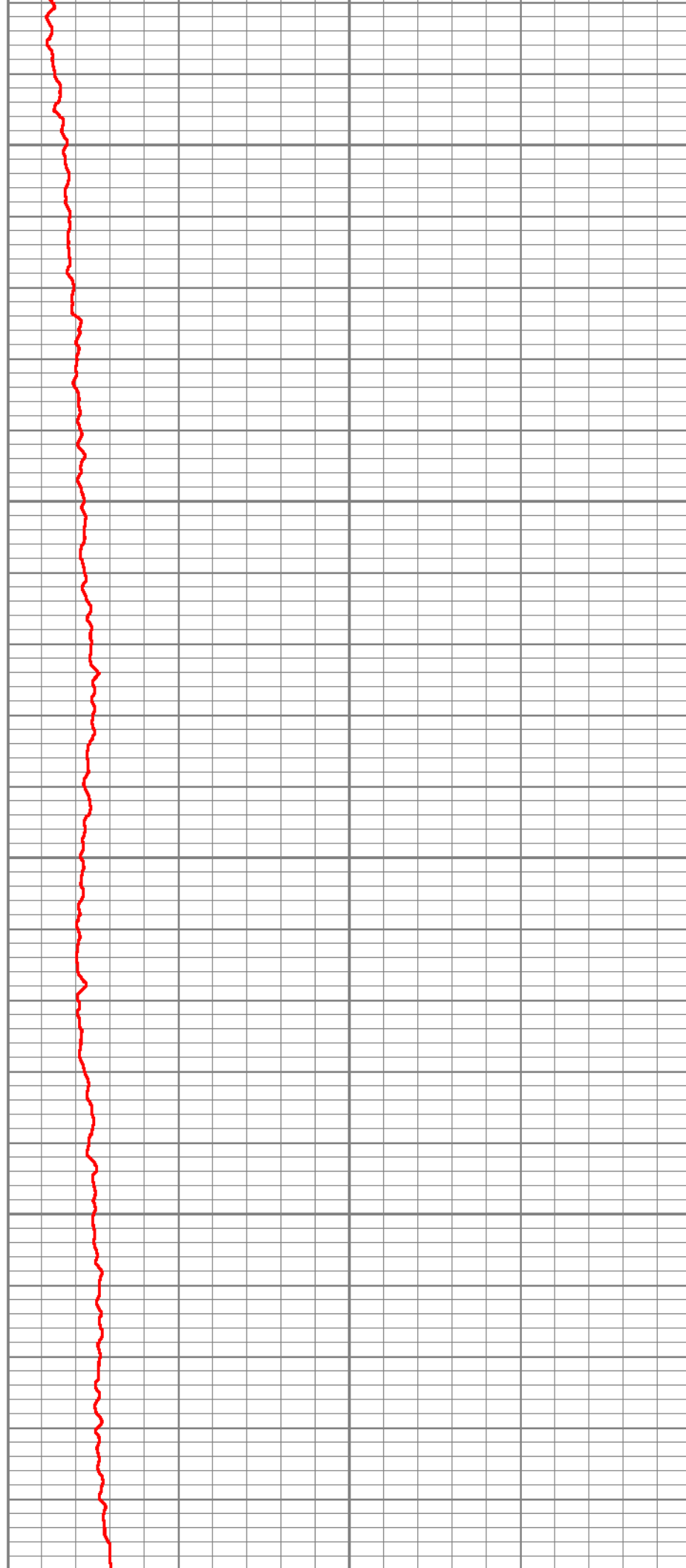
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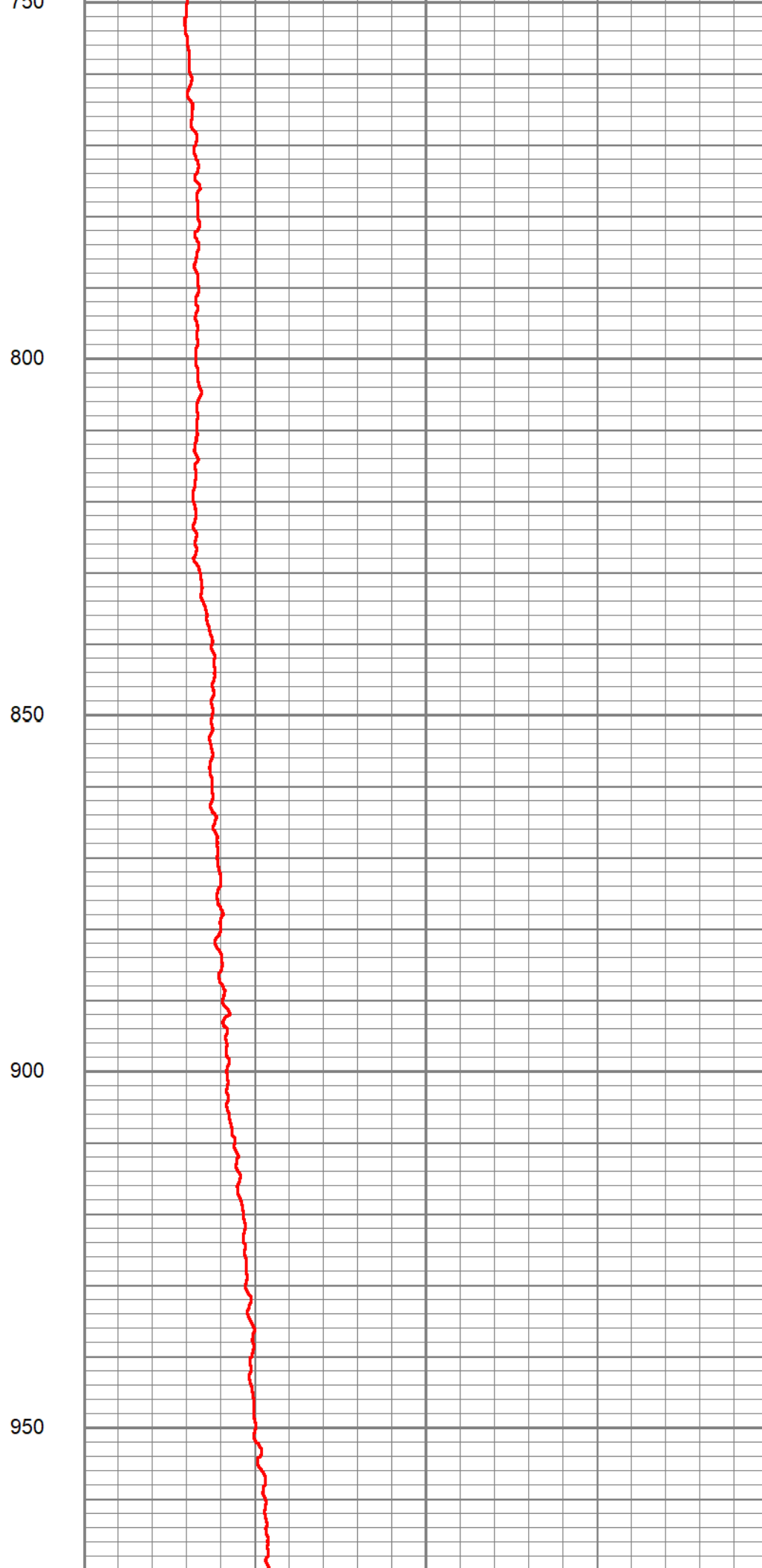
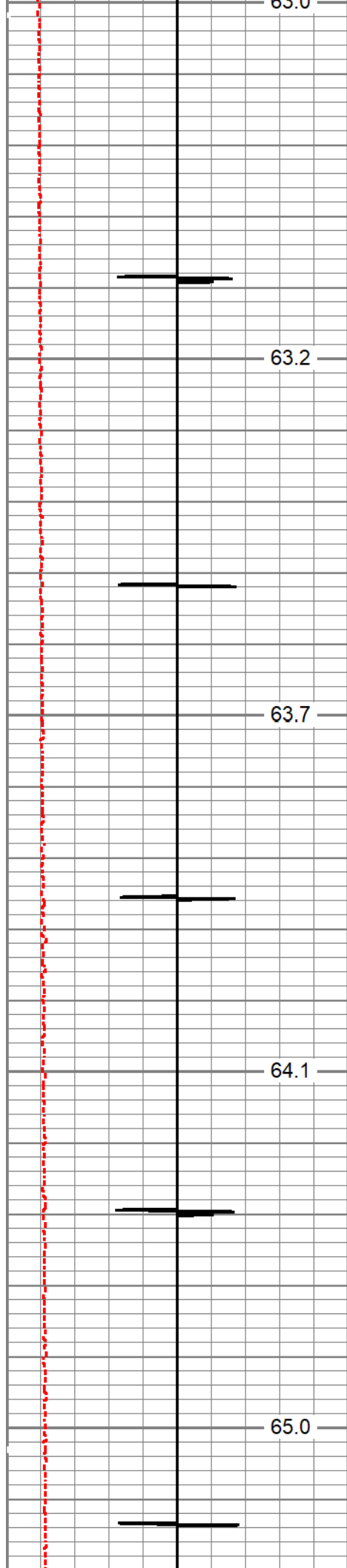
600

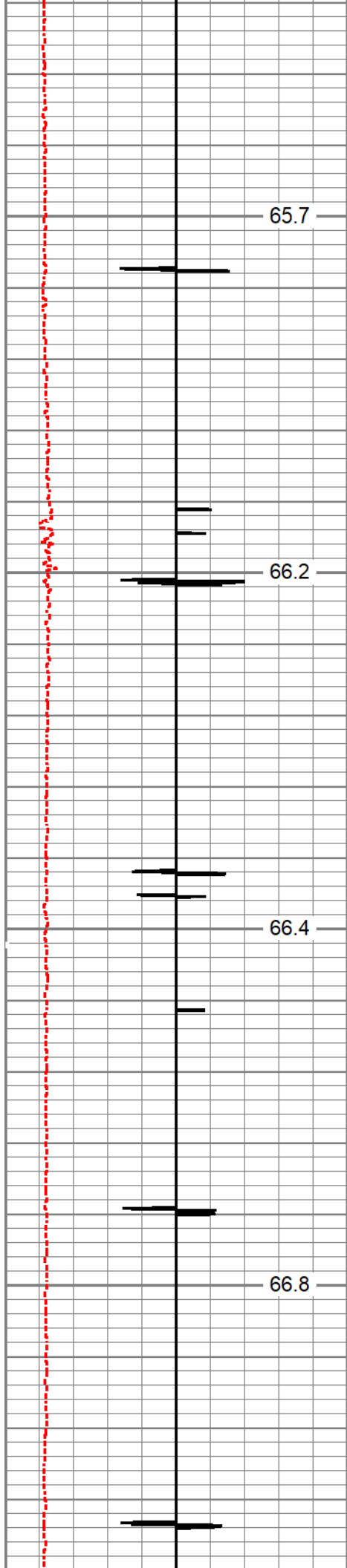
650

700

750





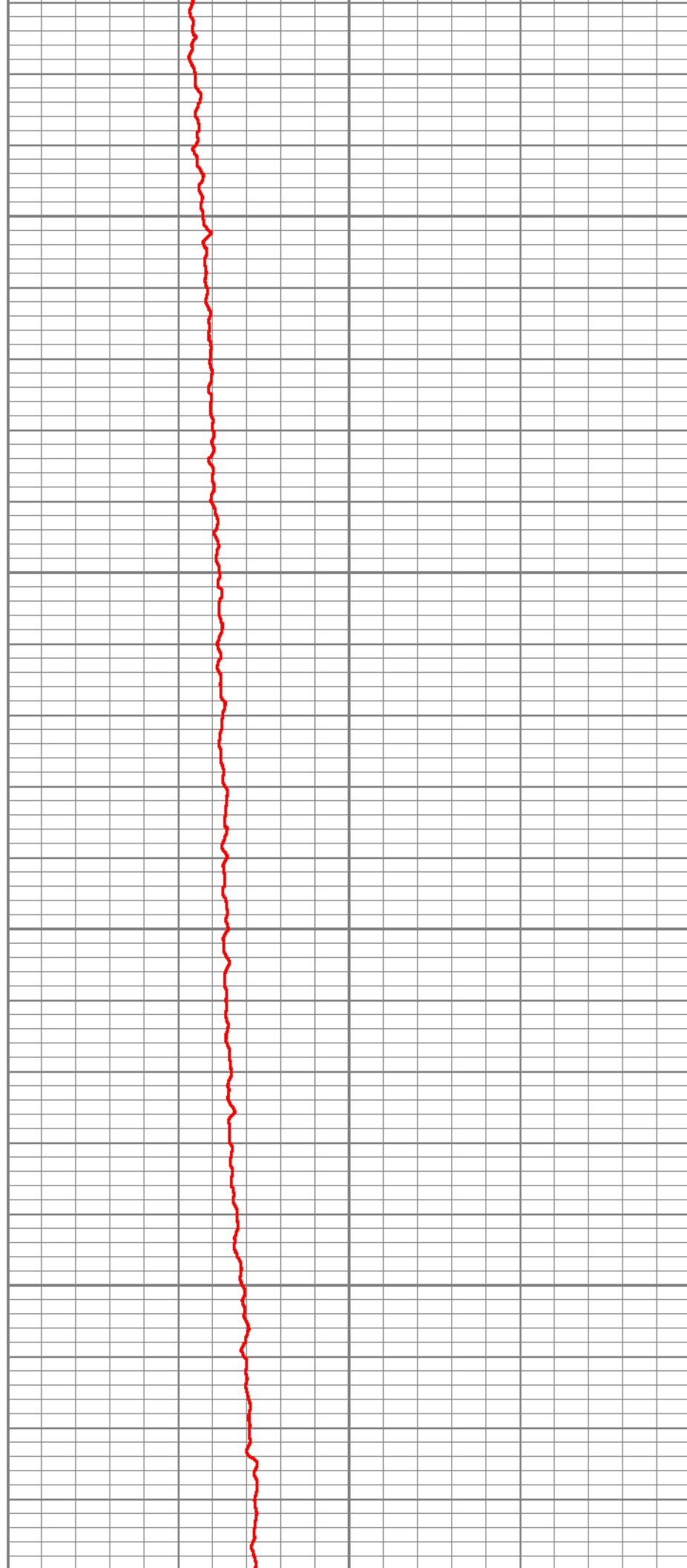


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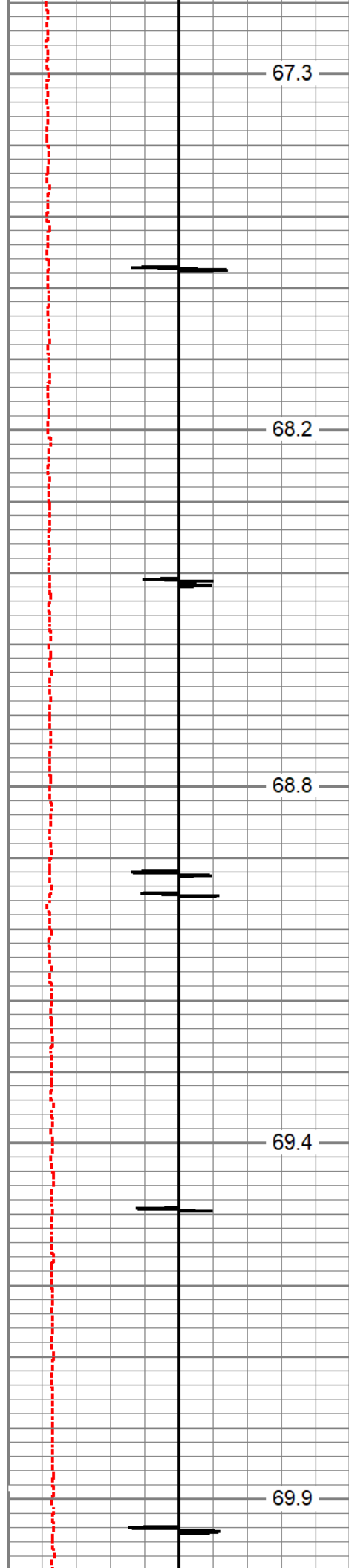
1050

1100

1150







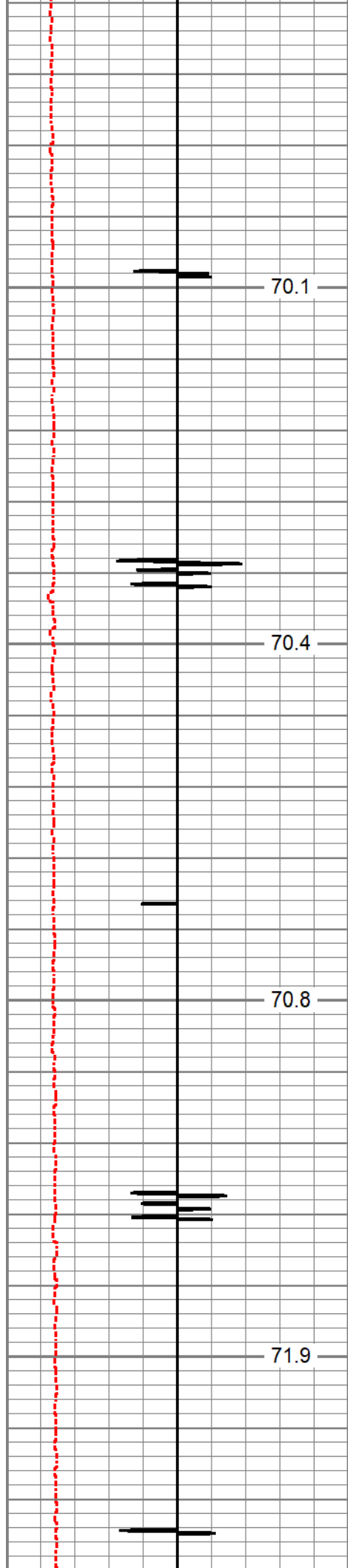
1200

1250

1300

1350

1400

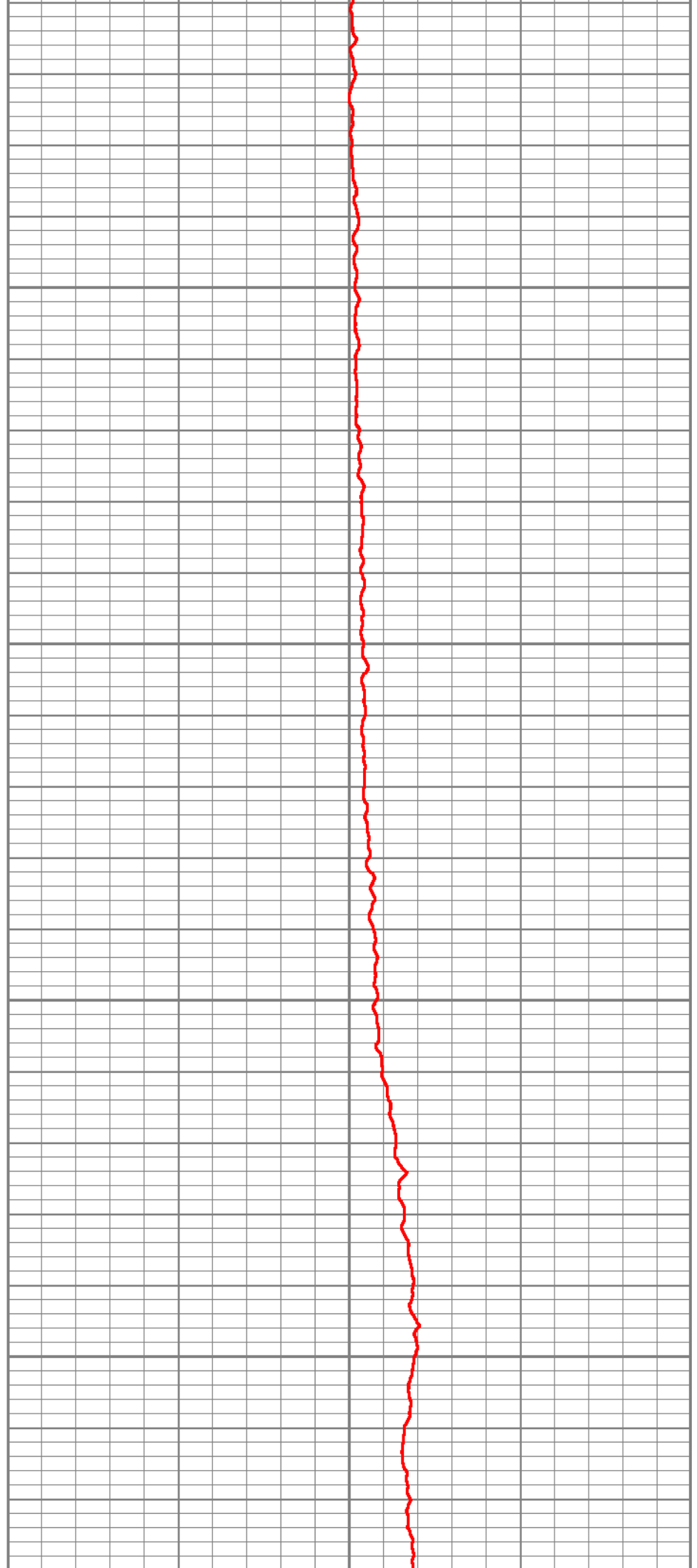


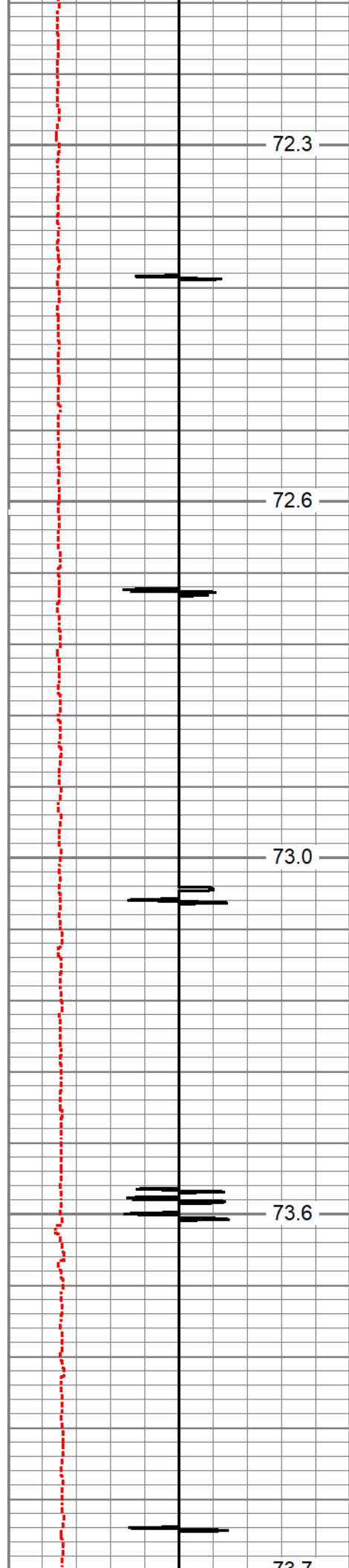
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1500

1550

1600





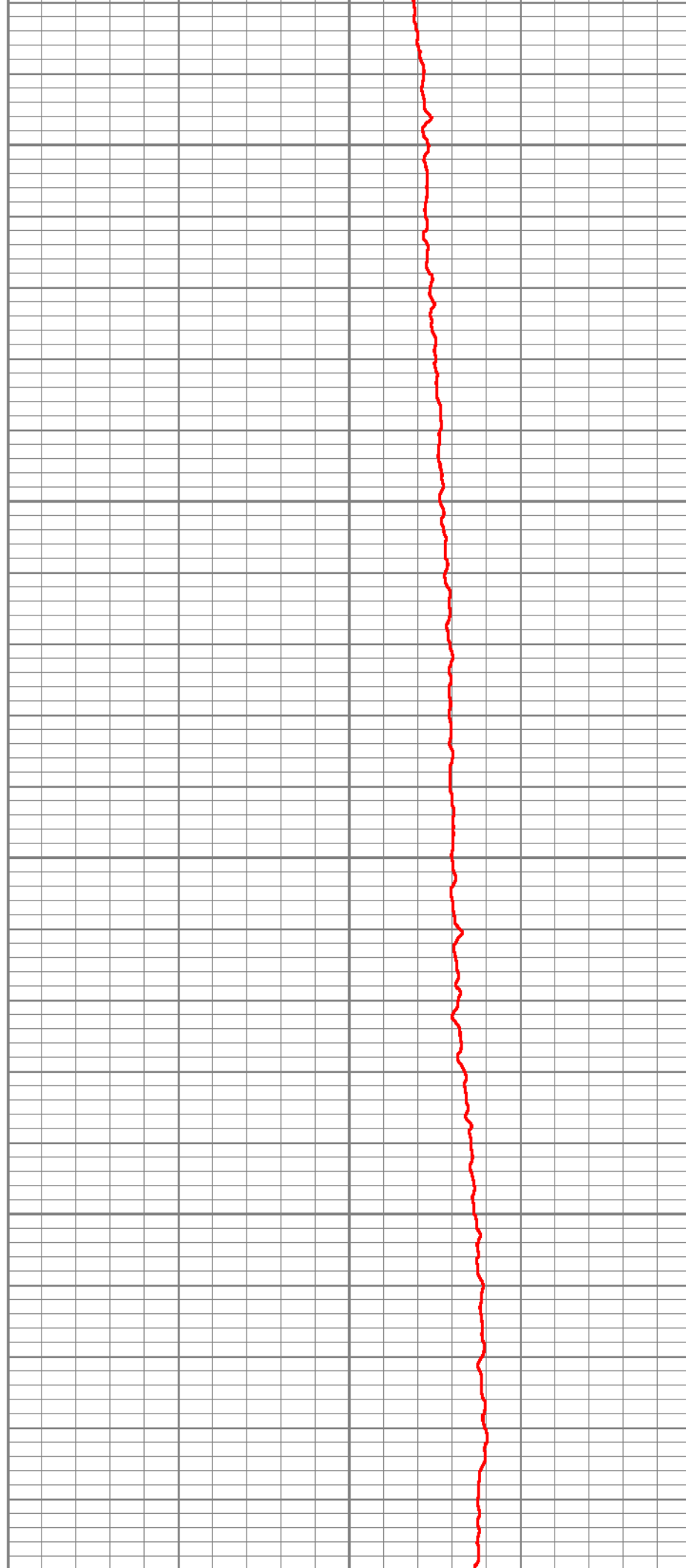
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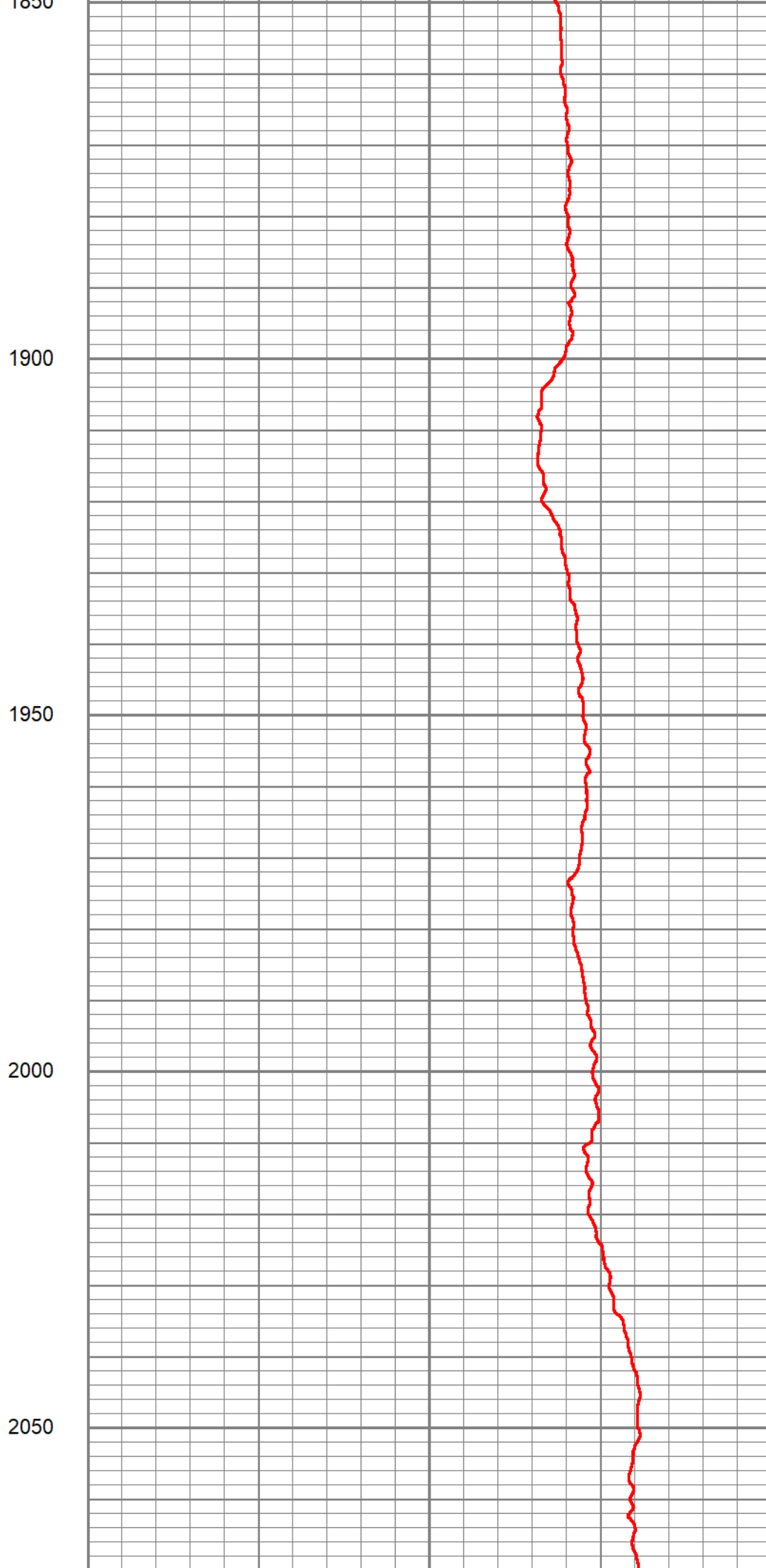
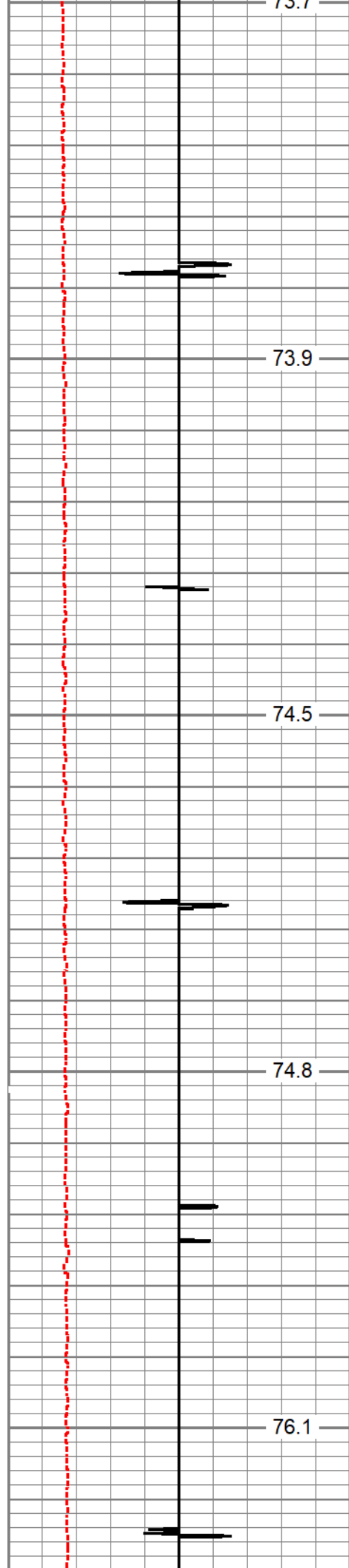
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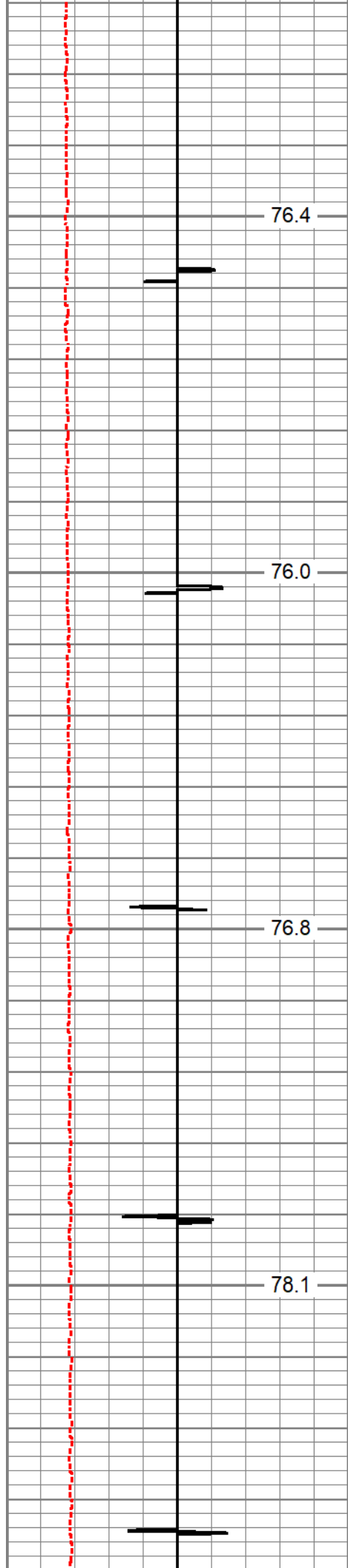
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1800

1850





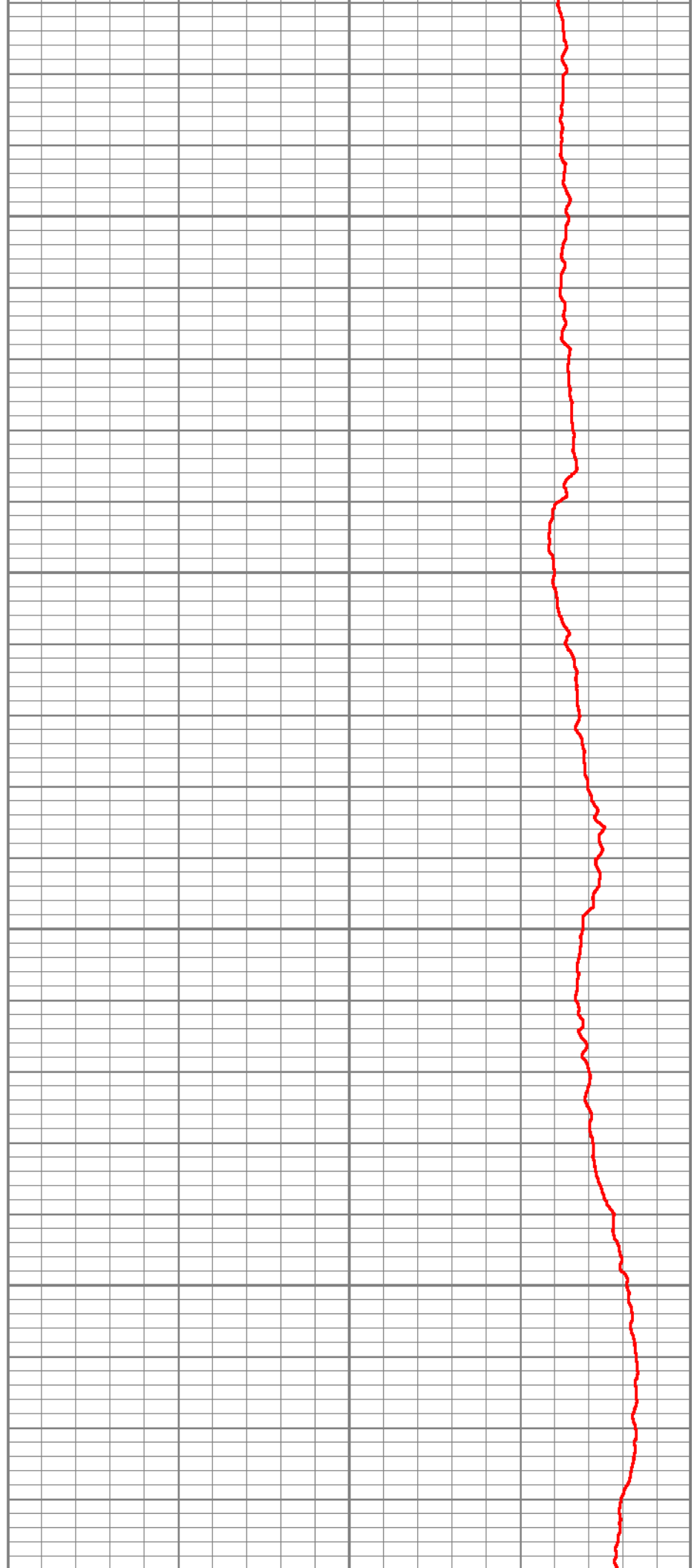


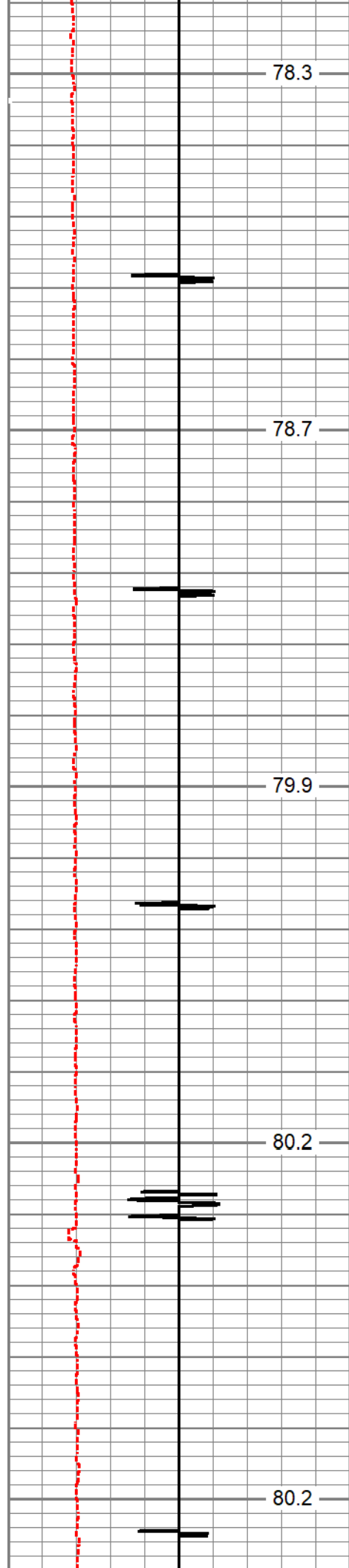
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2150

2200

2250





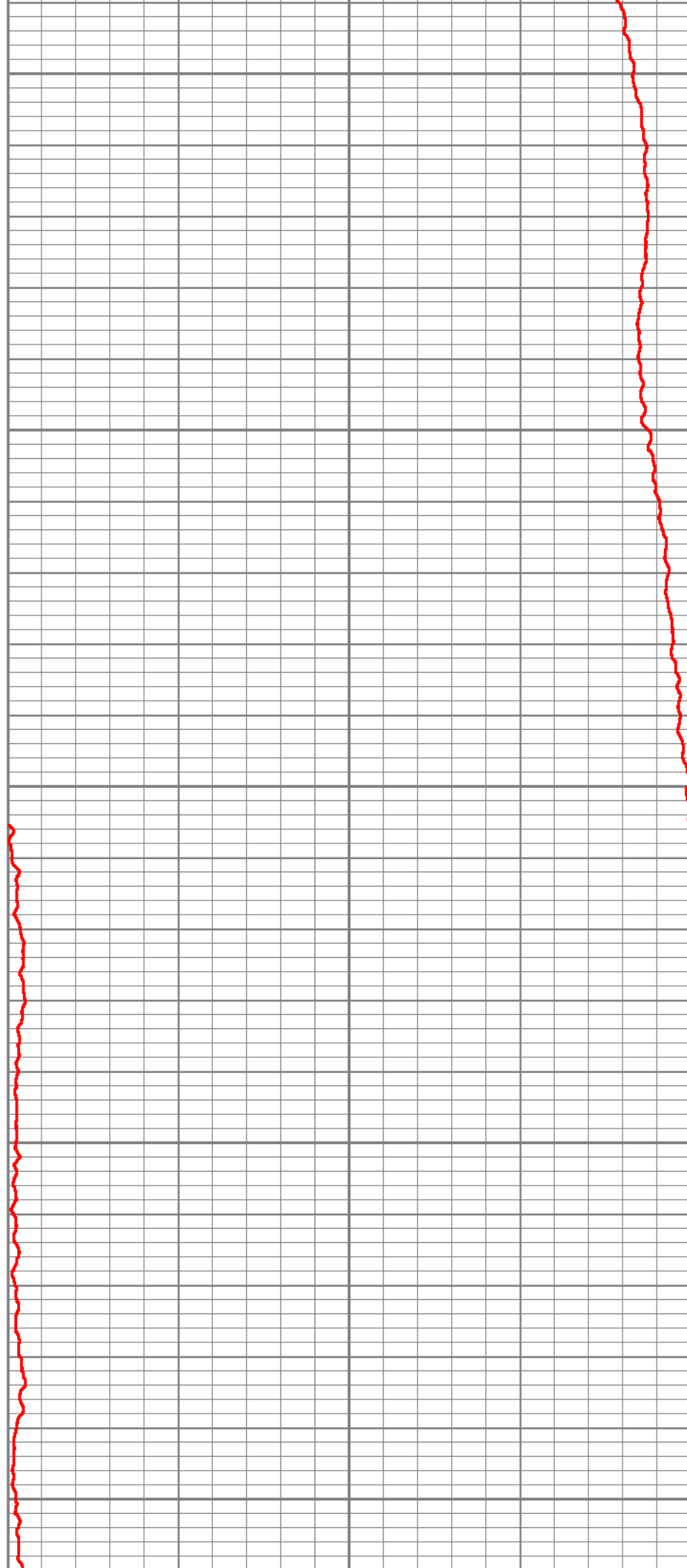
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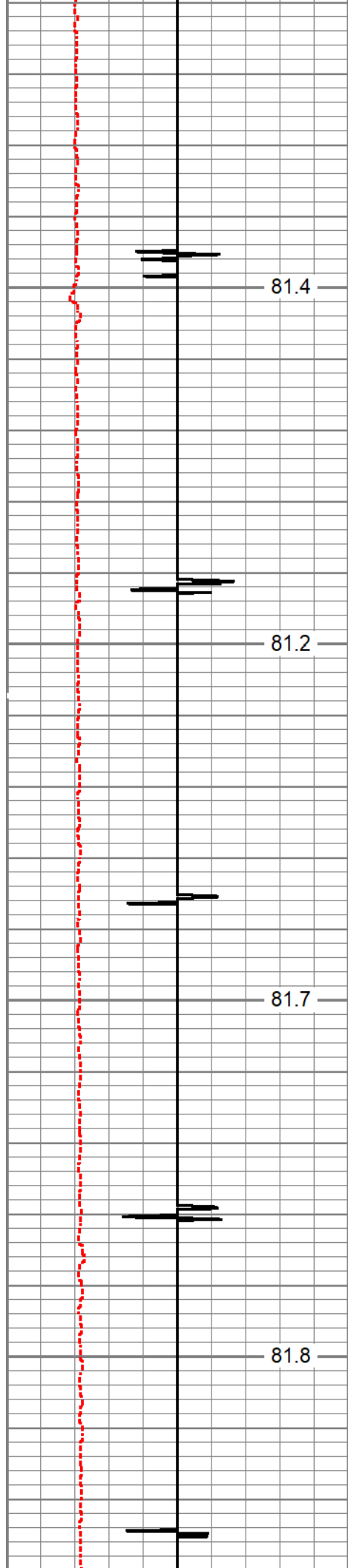
2350

2400

2450

2500





81.4

81.2

81.7

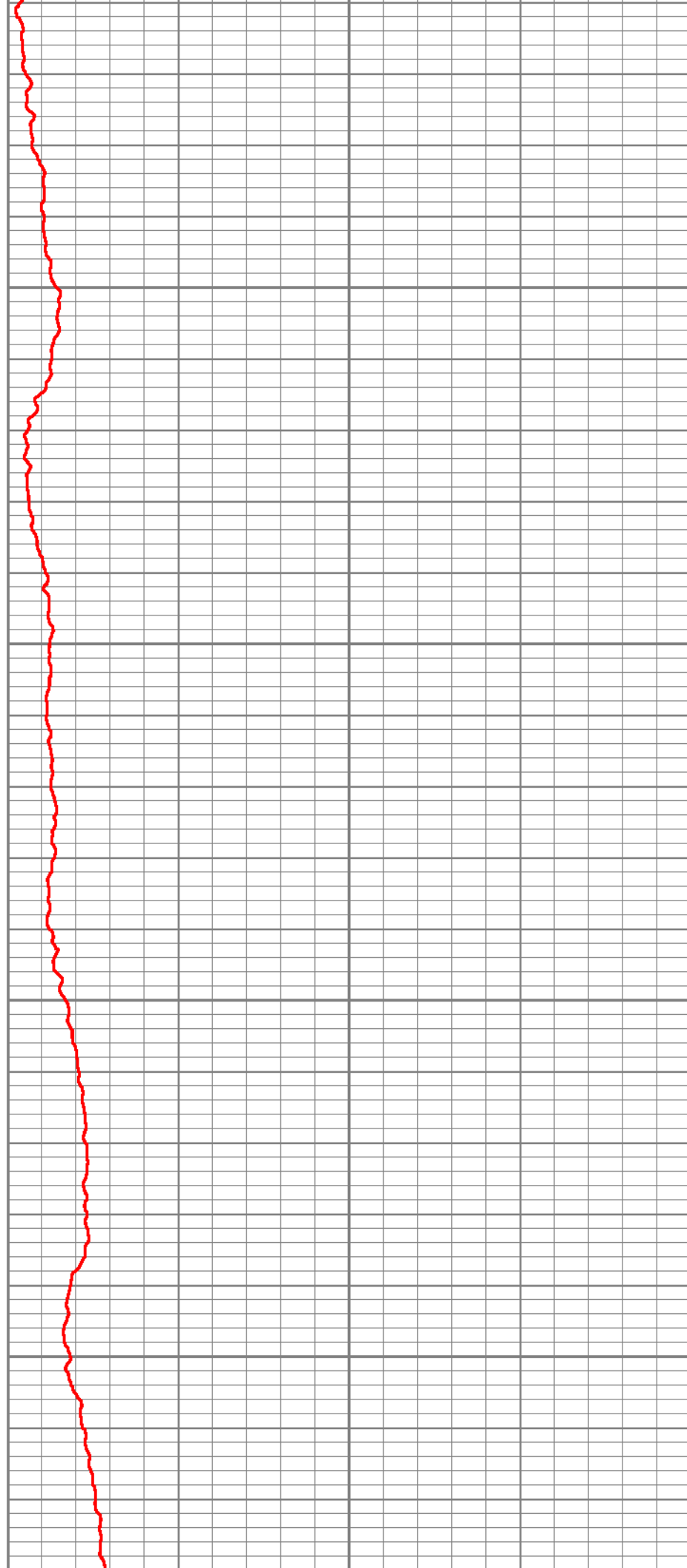
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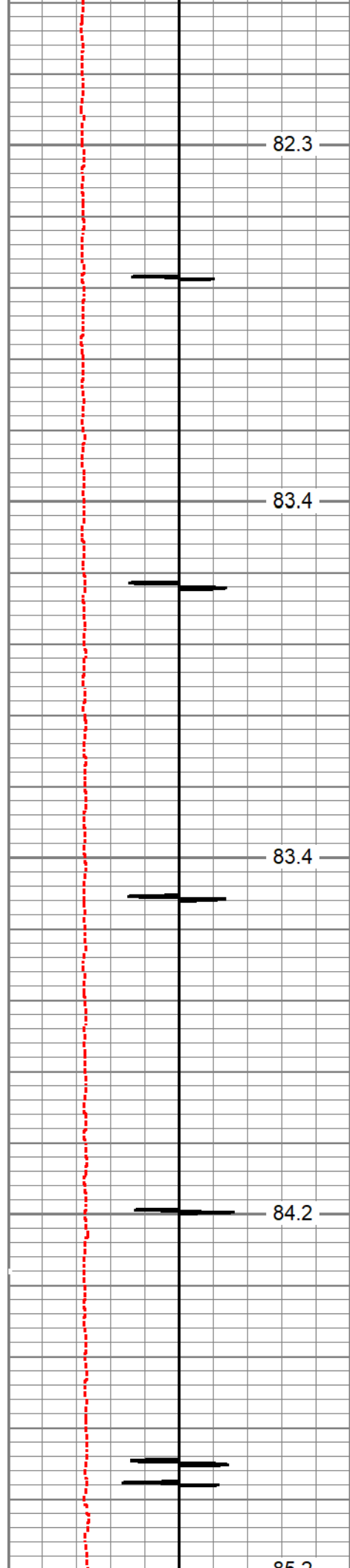
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2600

2650

2700





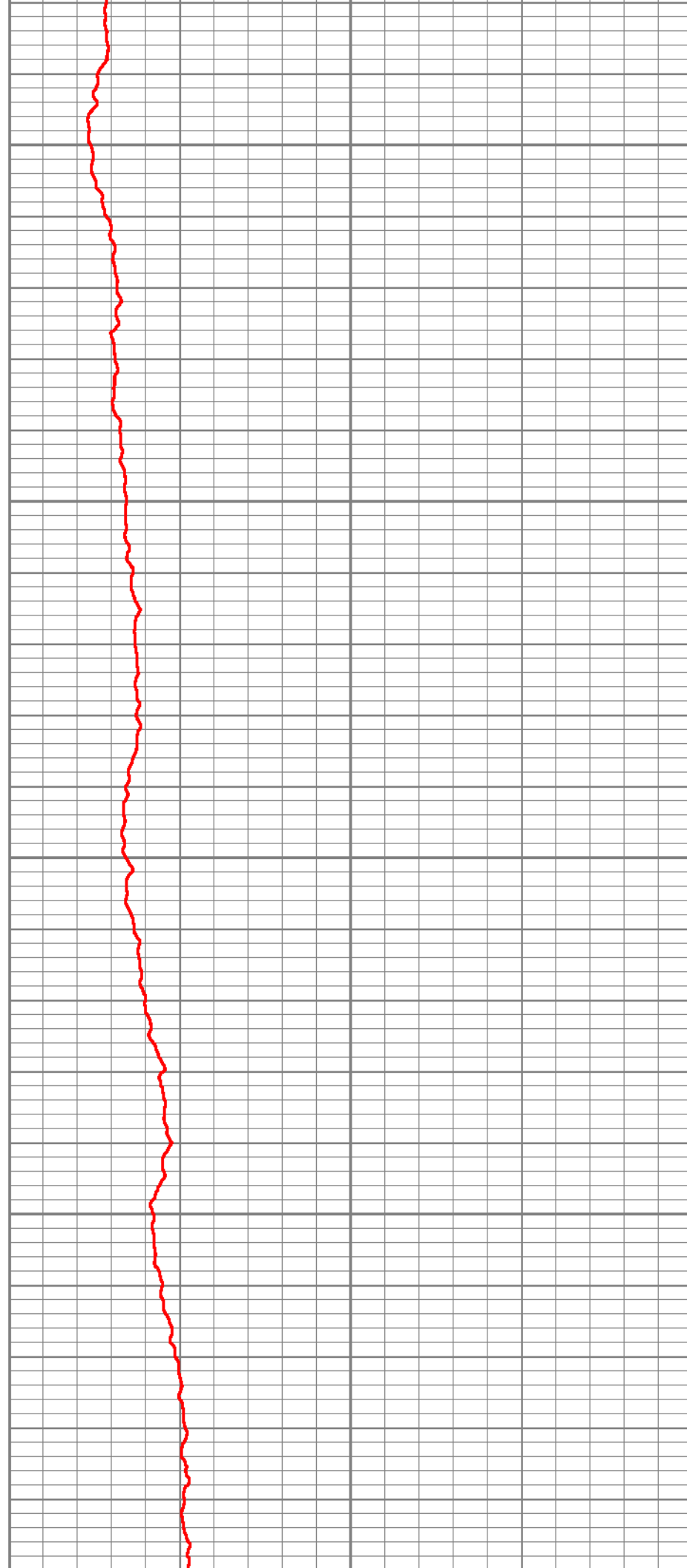
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2800

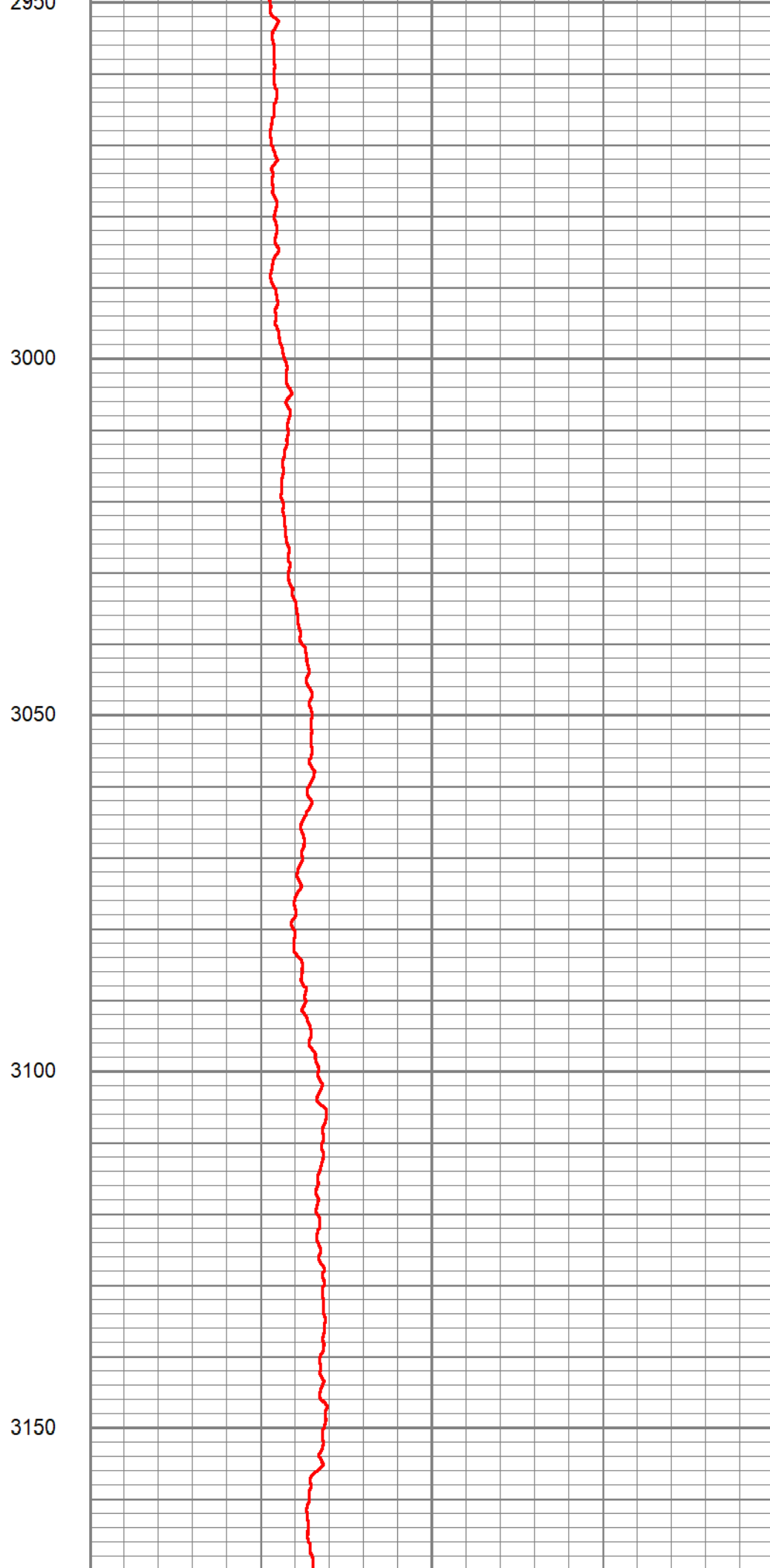
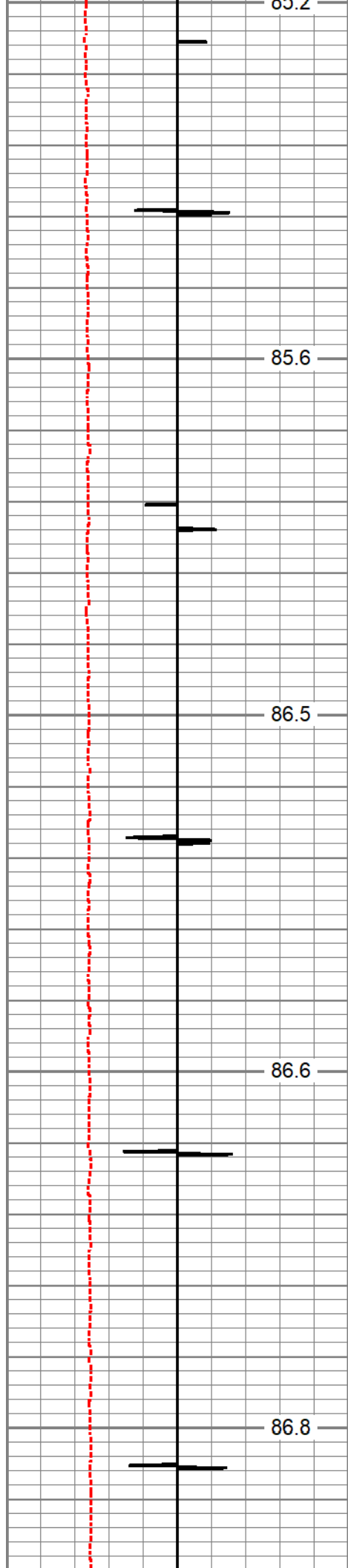
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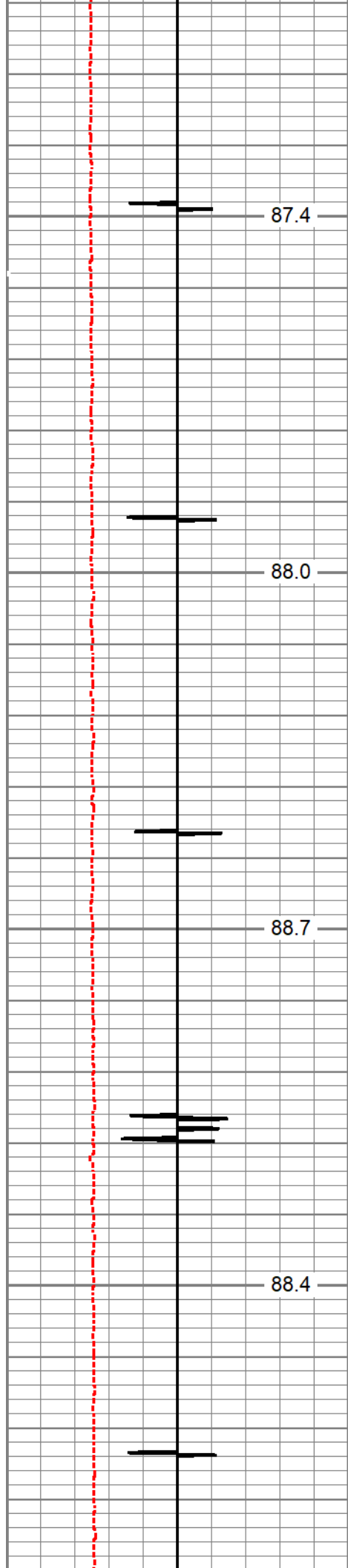
2900

2950









87.4

88.0

88.7

88.4

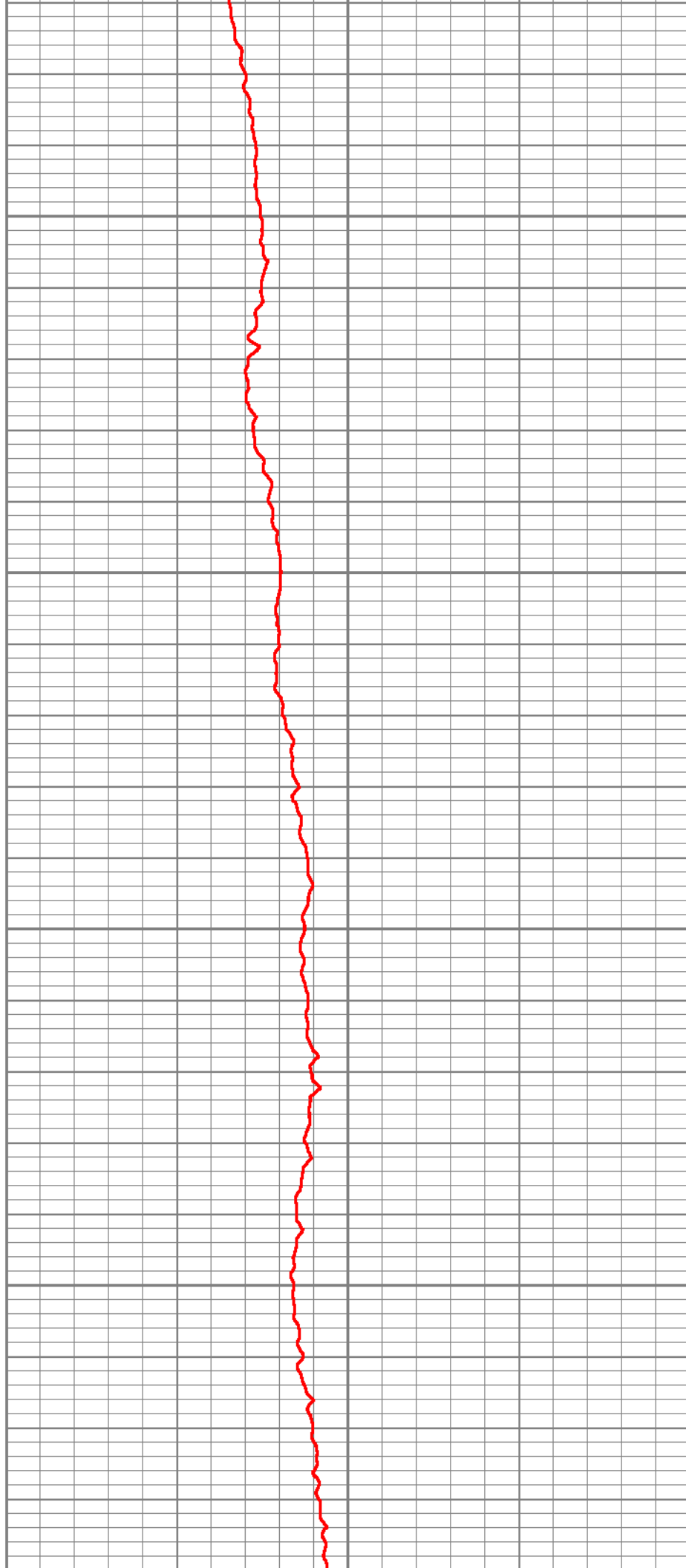
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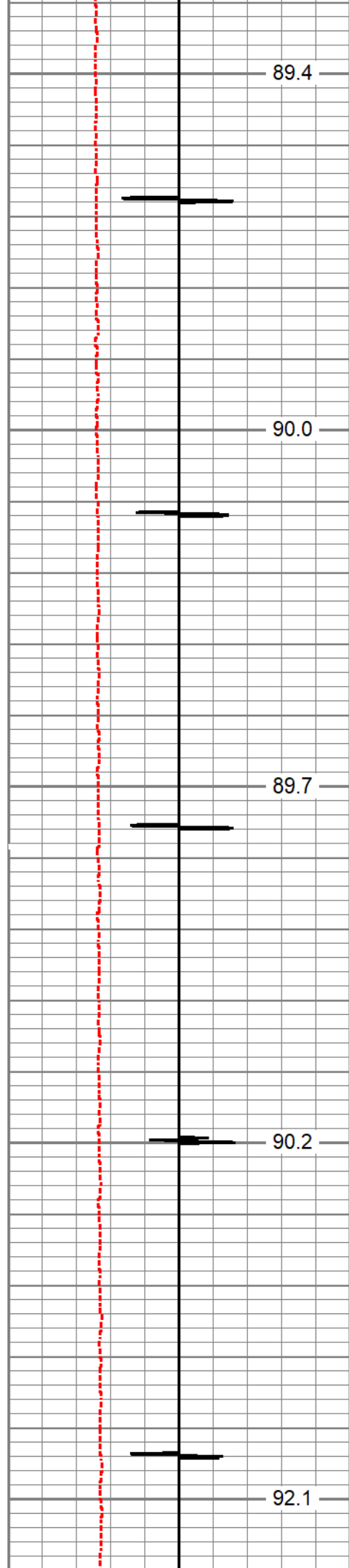
3200

3250

3300

3350





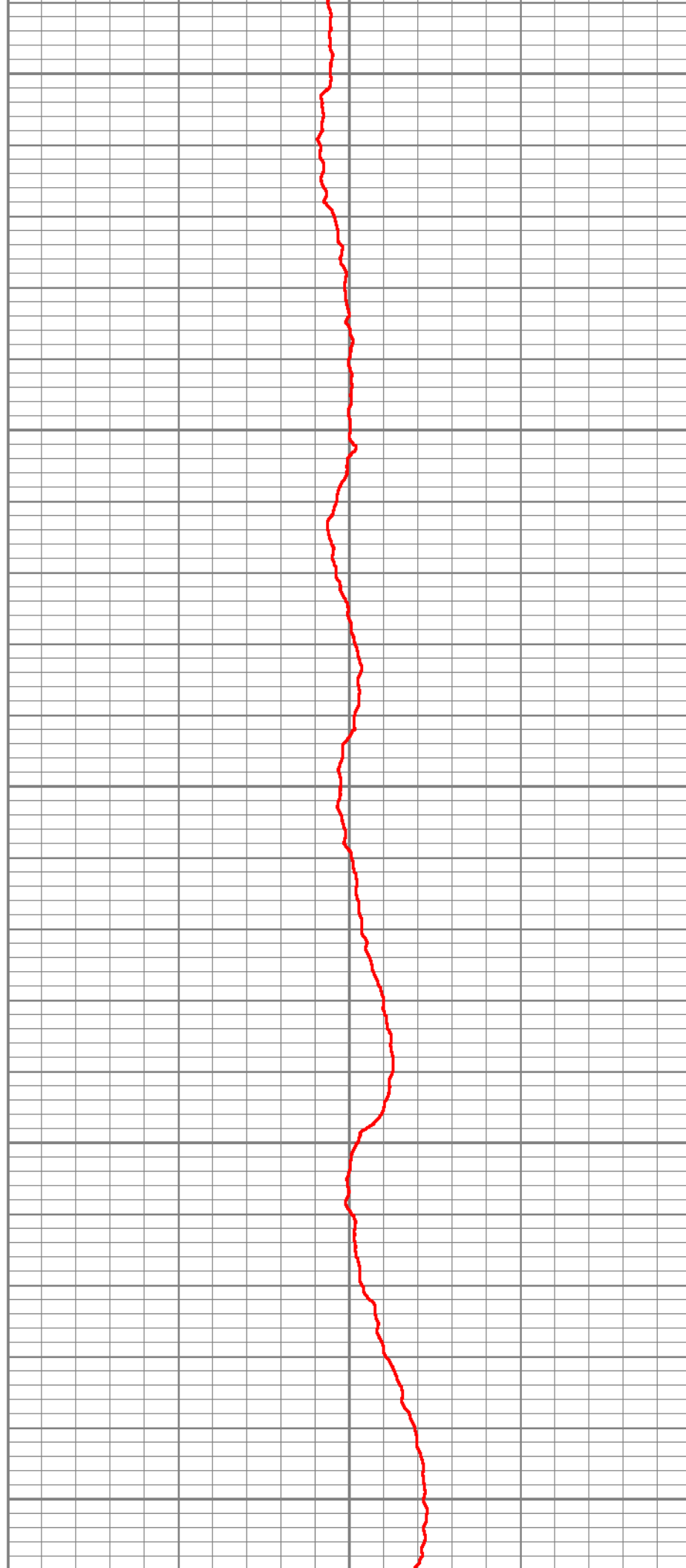
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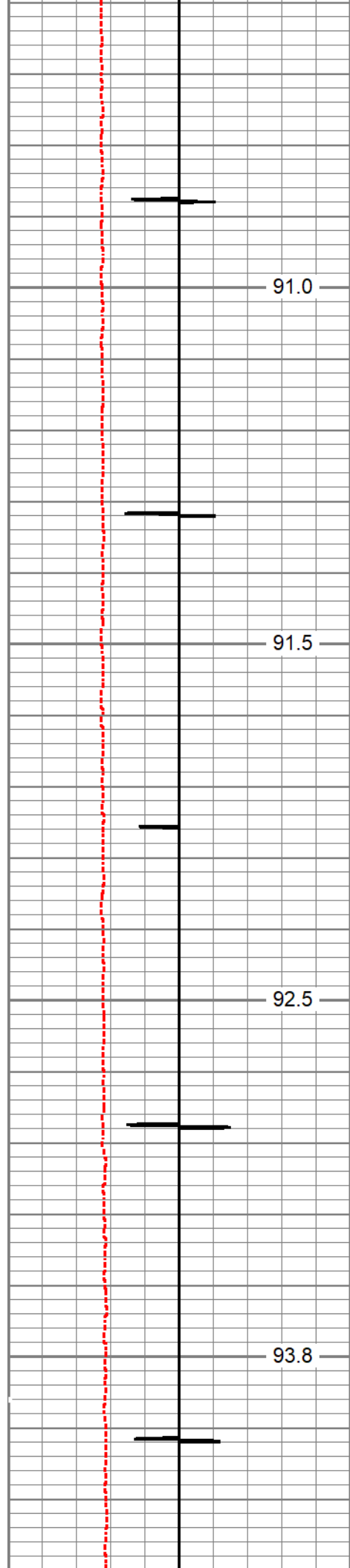
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3500

3550

3600



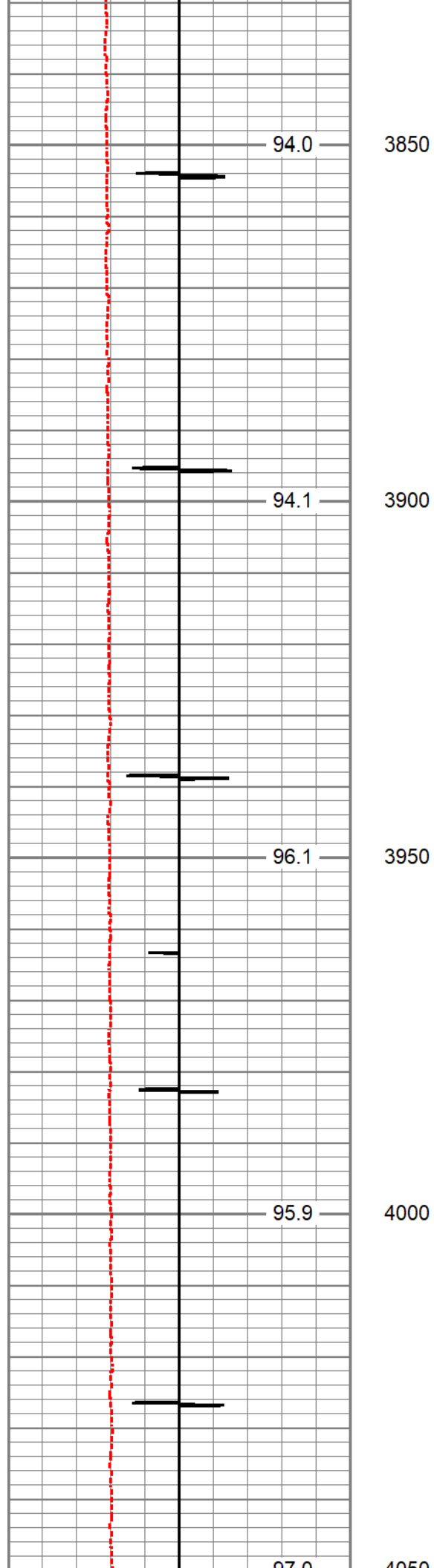


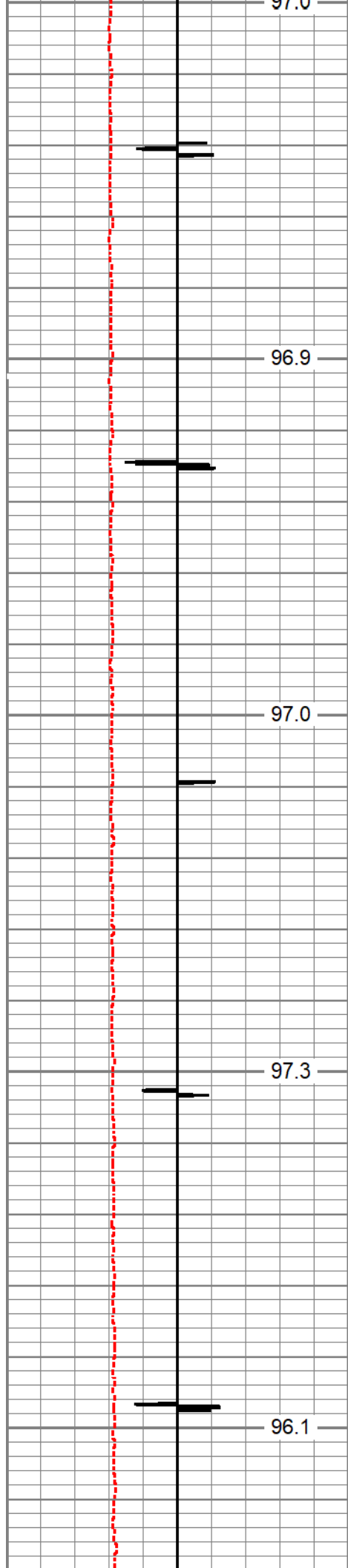
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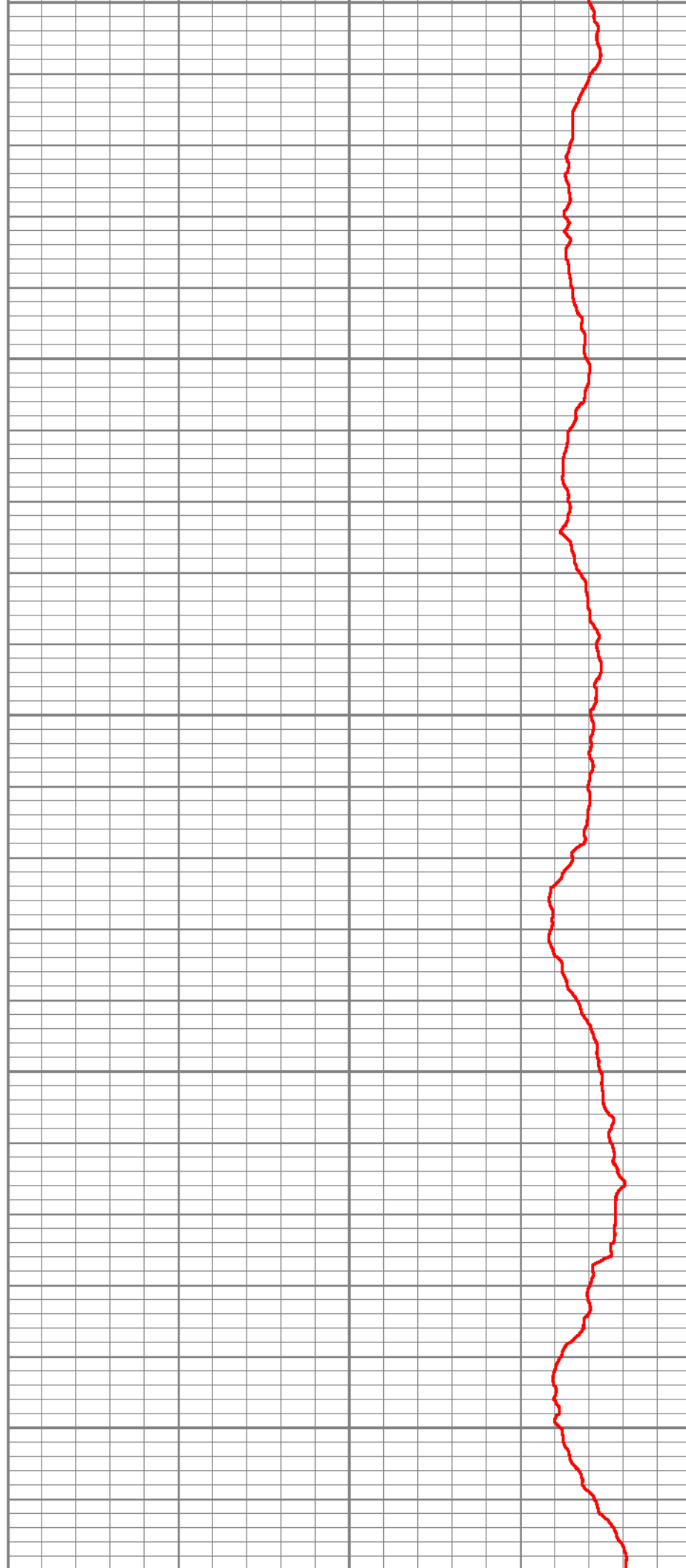
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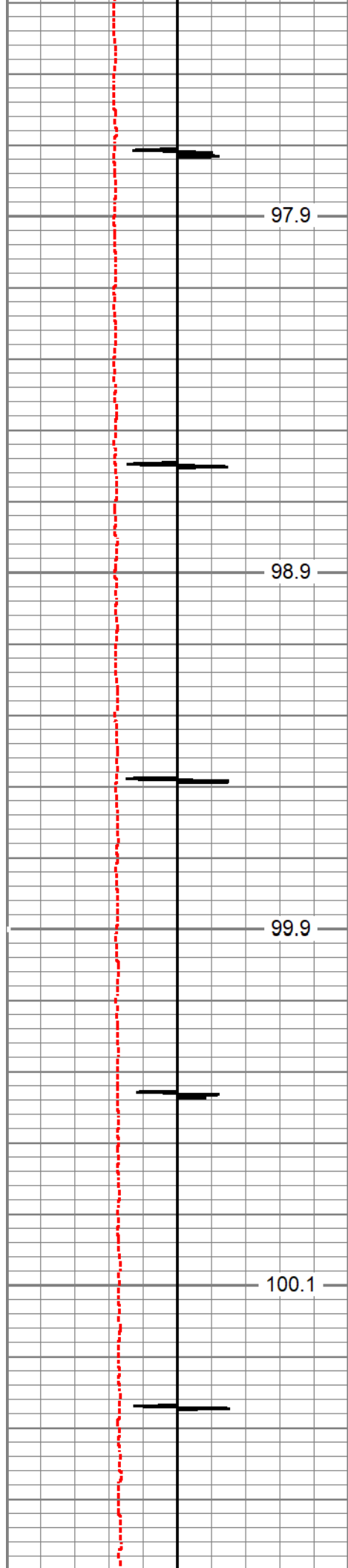
3800





4050  
4100  
4150  
4200  
4250





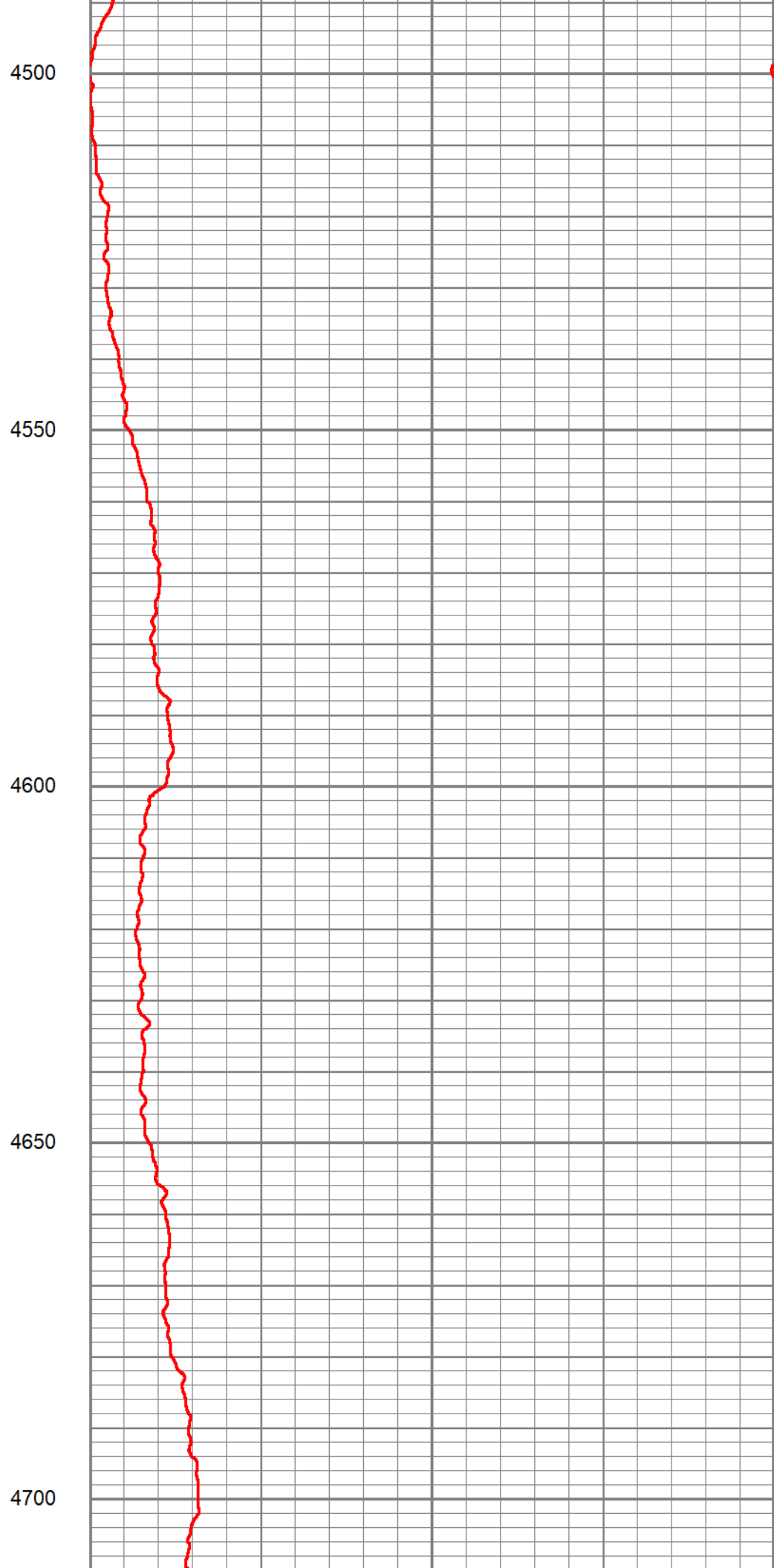
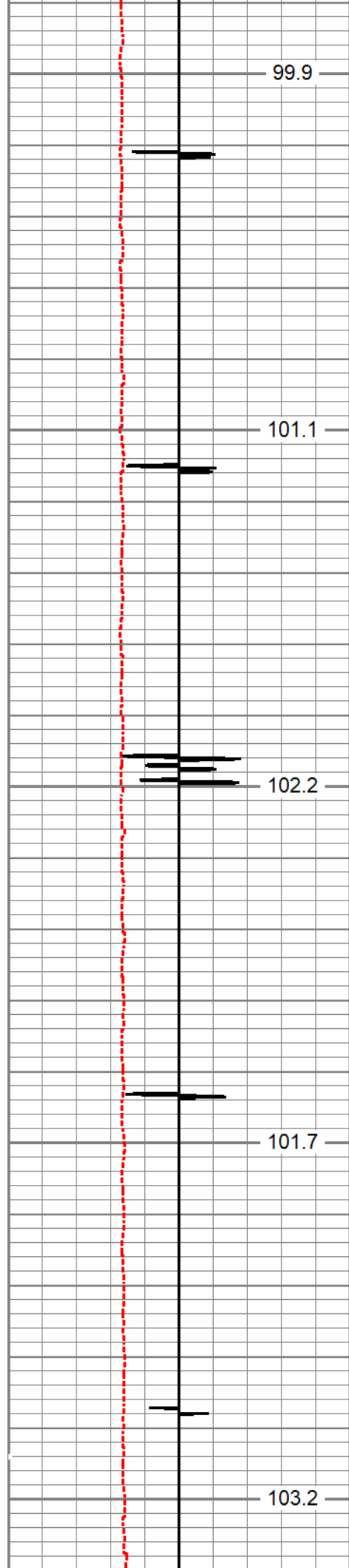
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4350

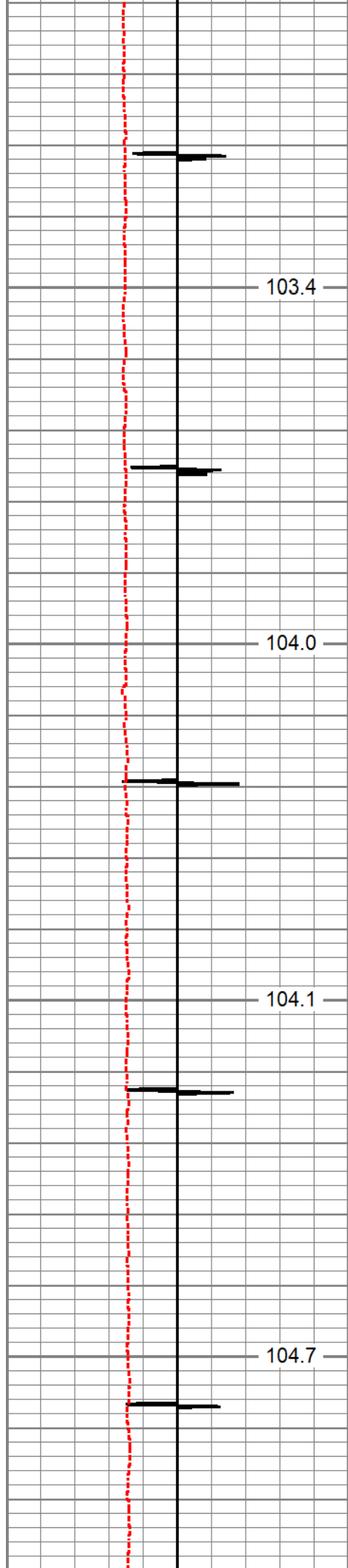
4400

4450









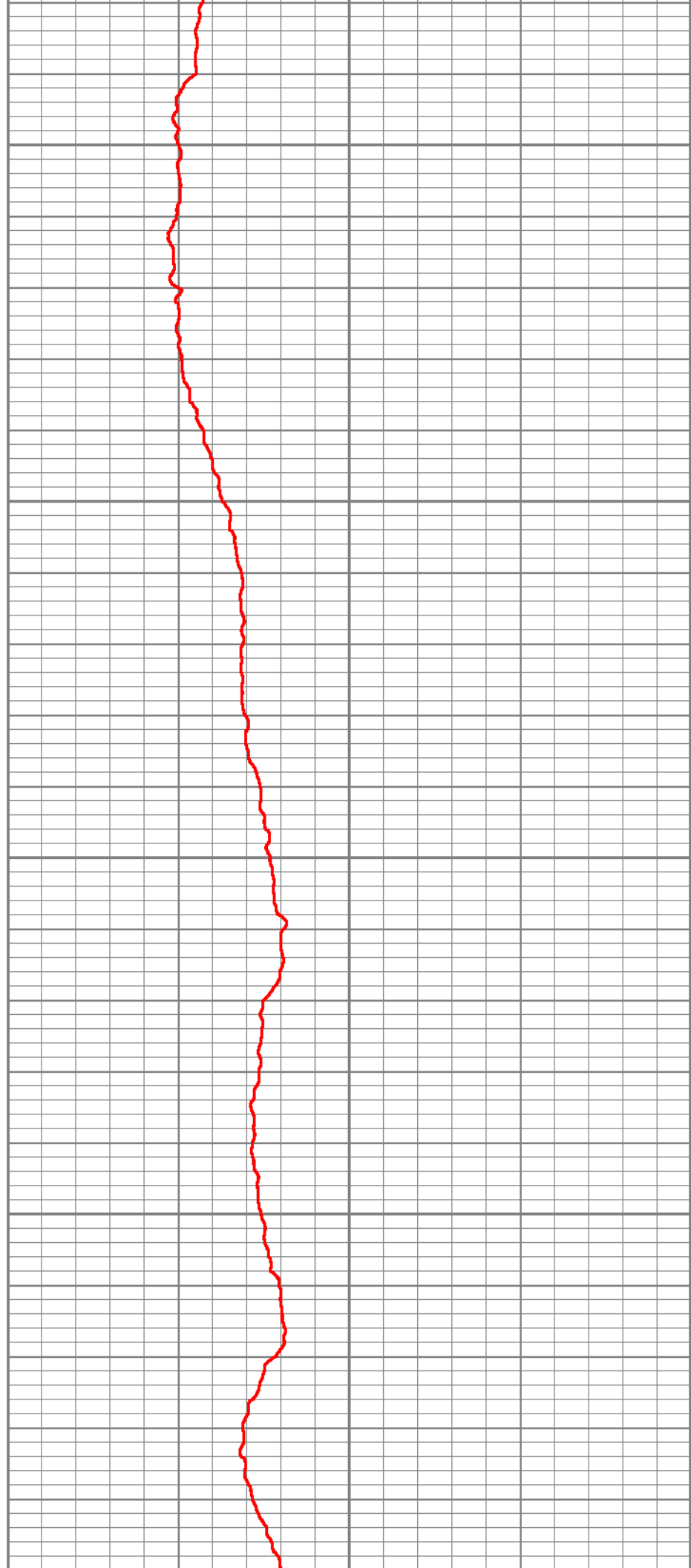
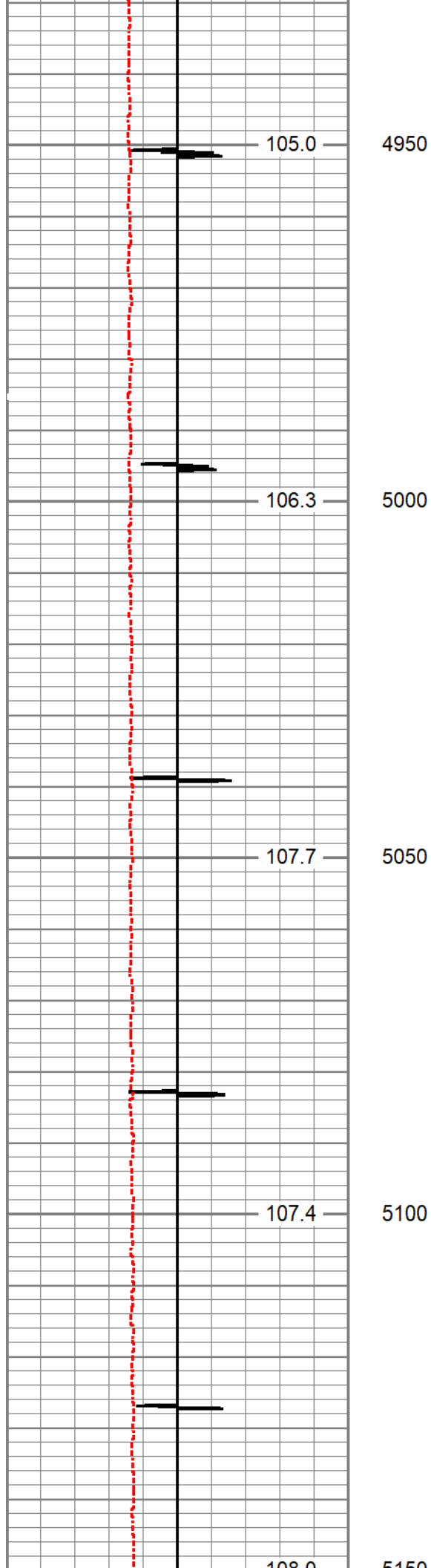
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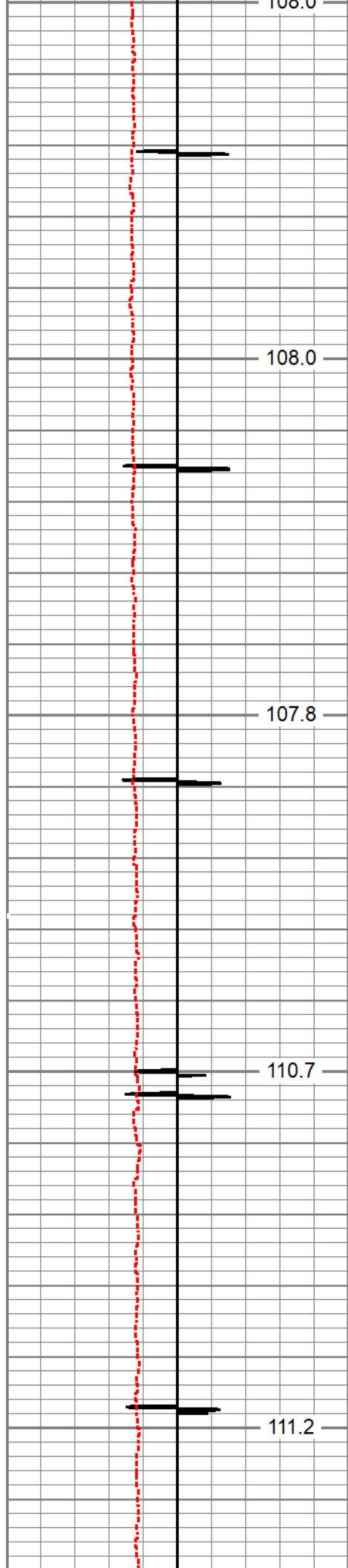
4800

4850

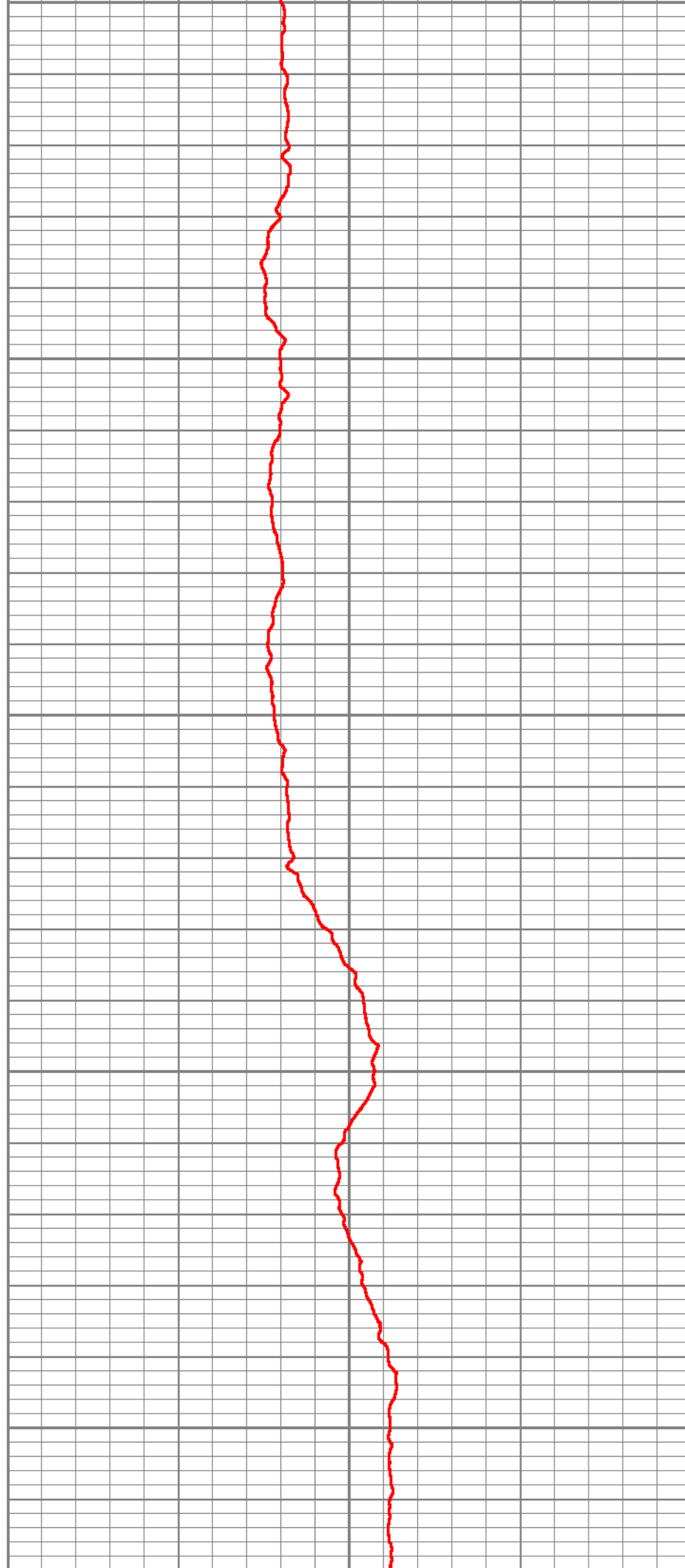
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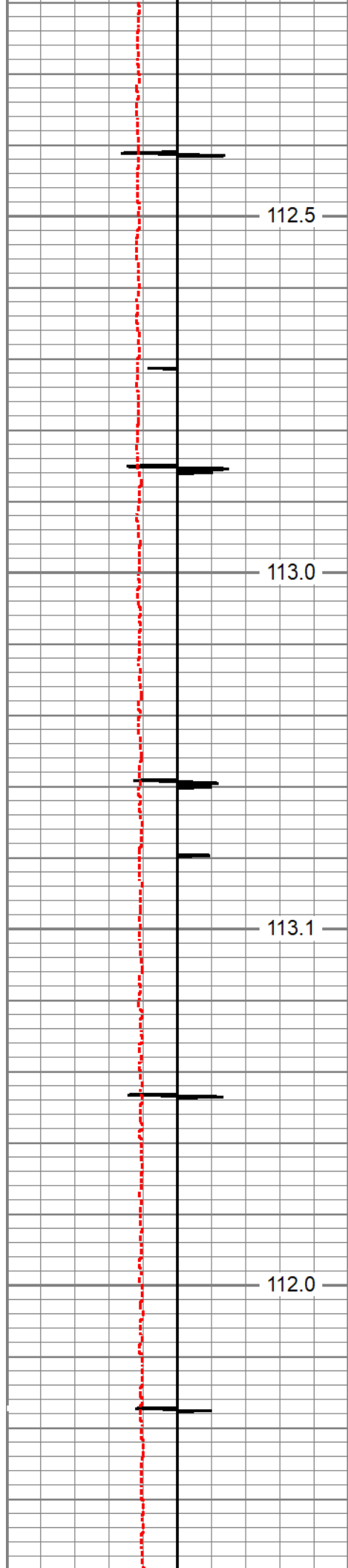






5150  
5200  
5250  
5300  
5350



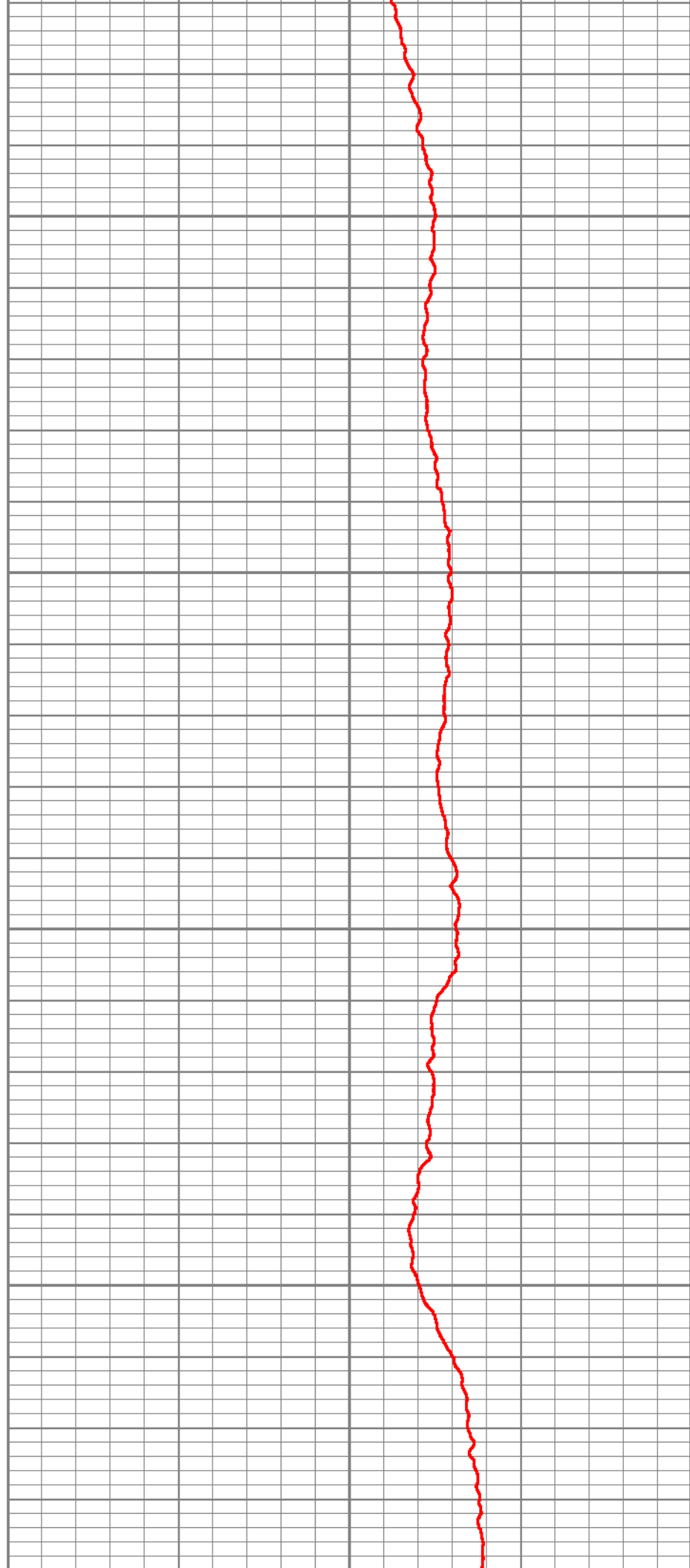


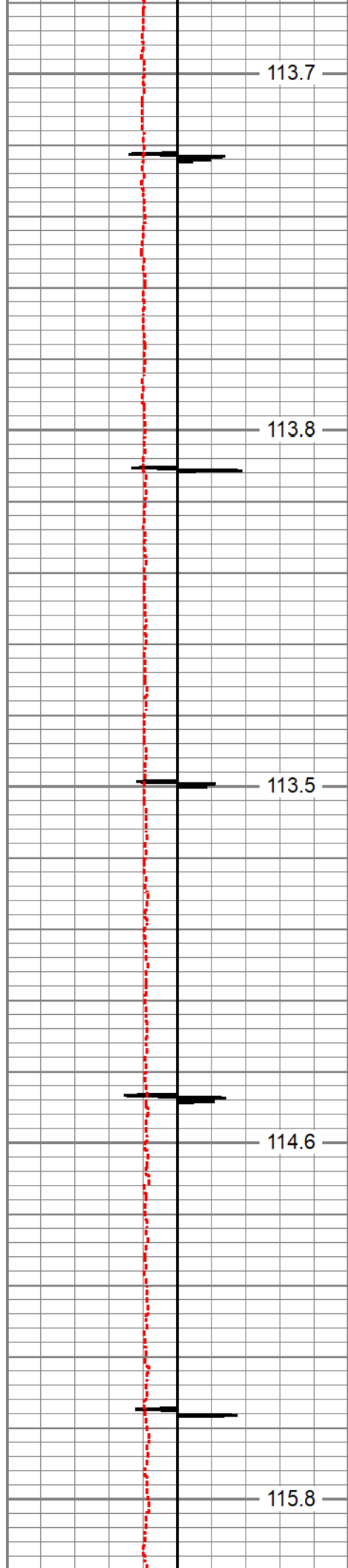
112.5 5400

113.0 5450

113.1 5500

112.0 5550





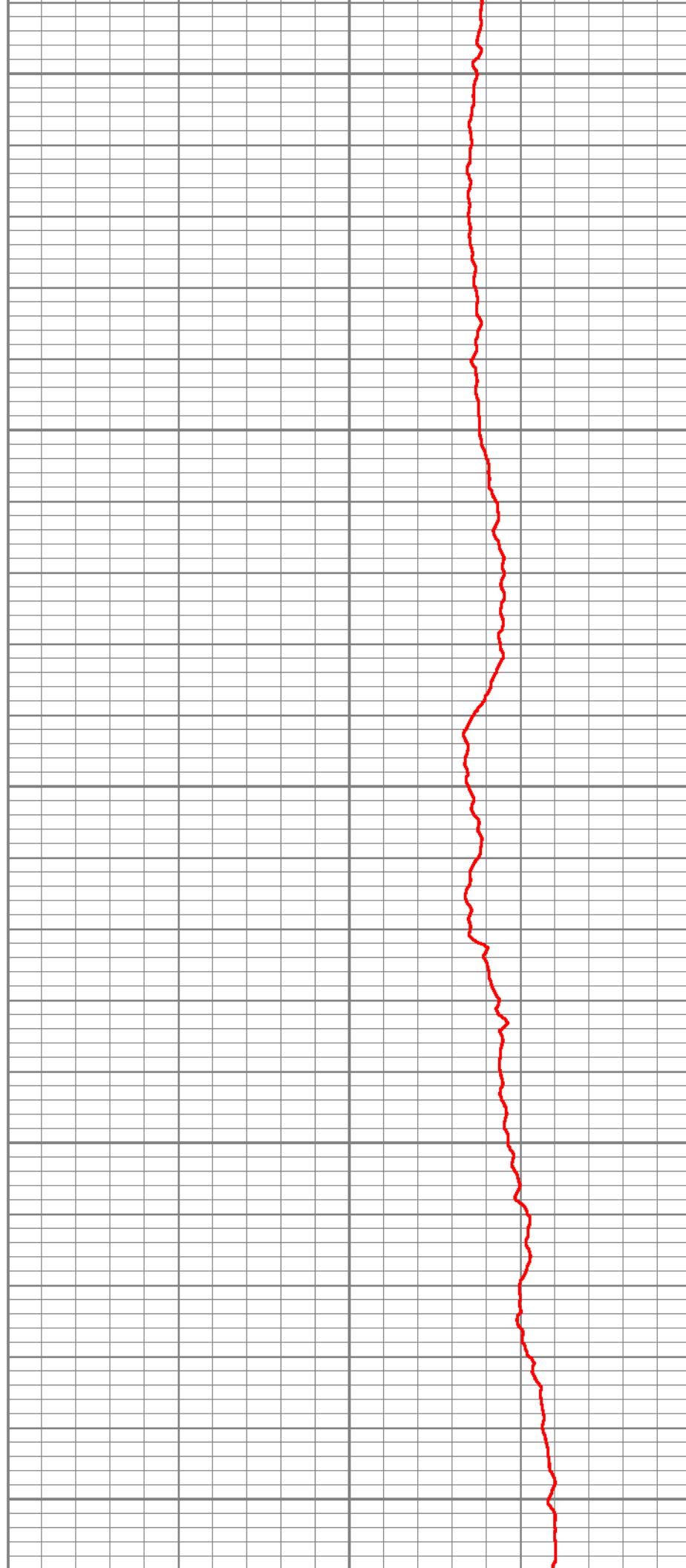
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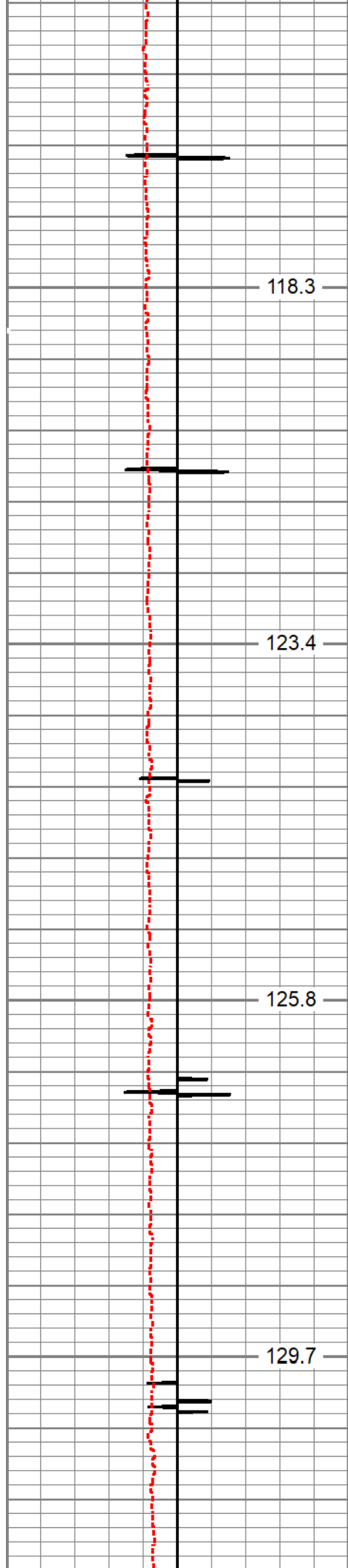
5650

5700

5750

5800



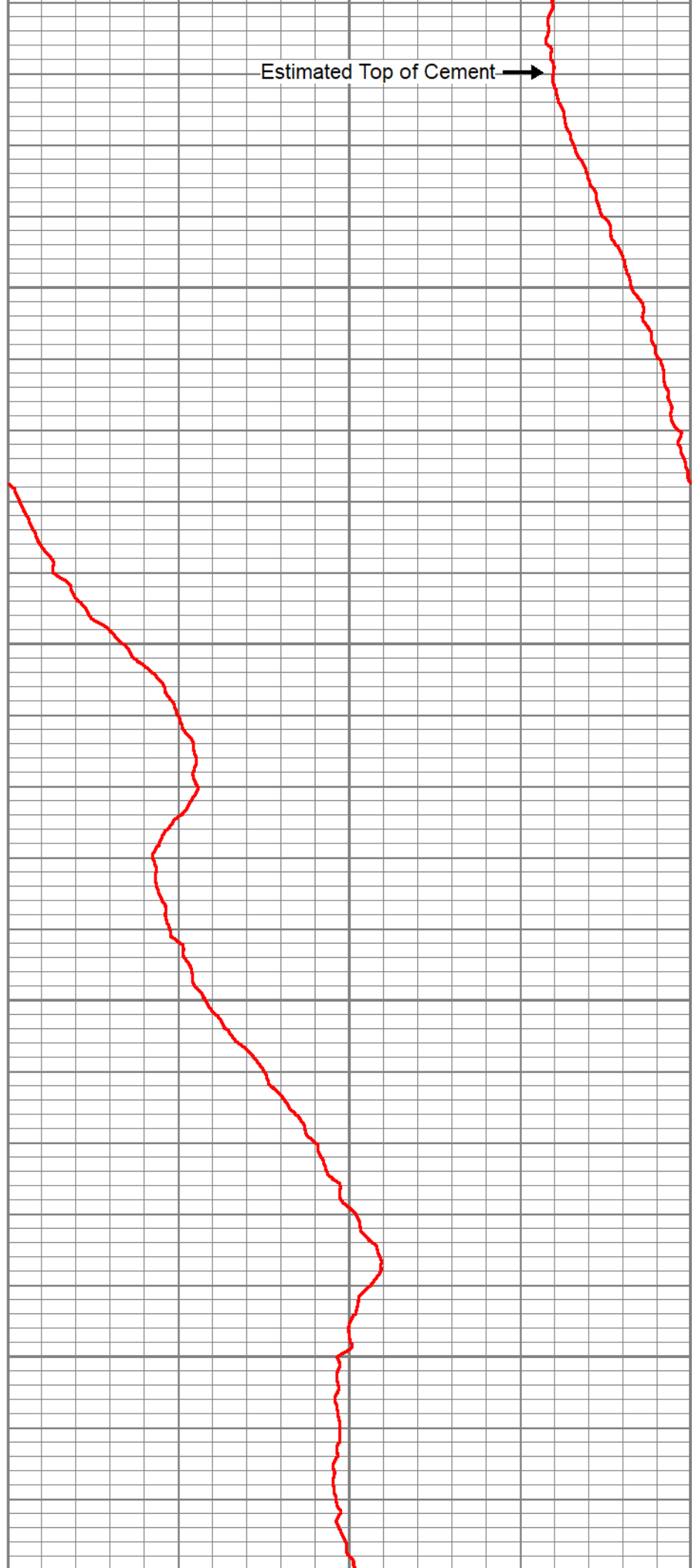


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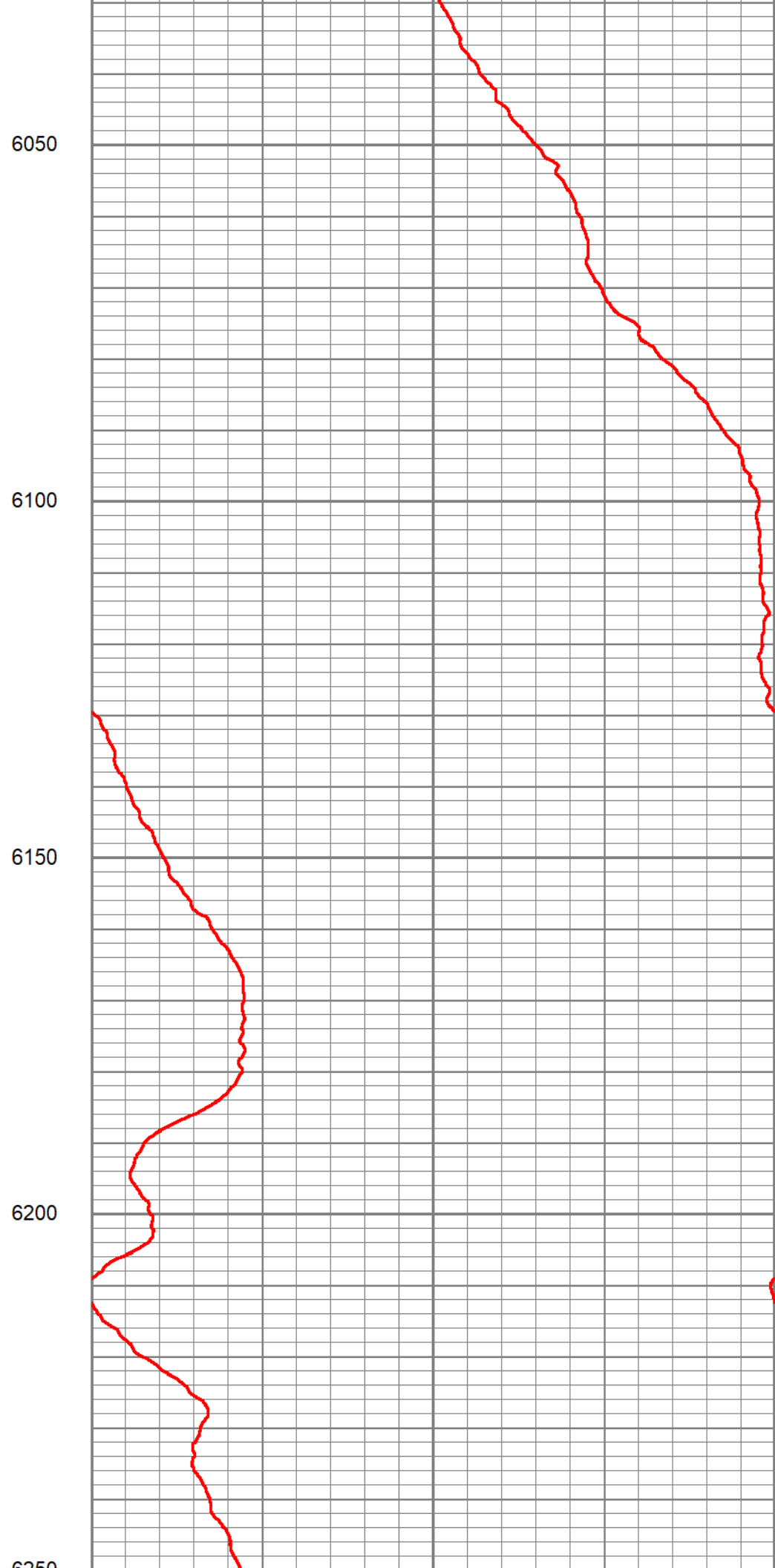
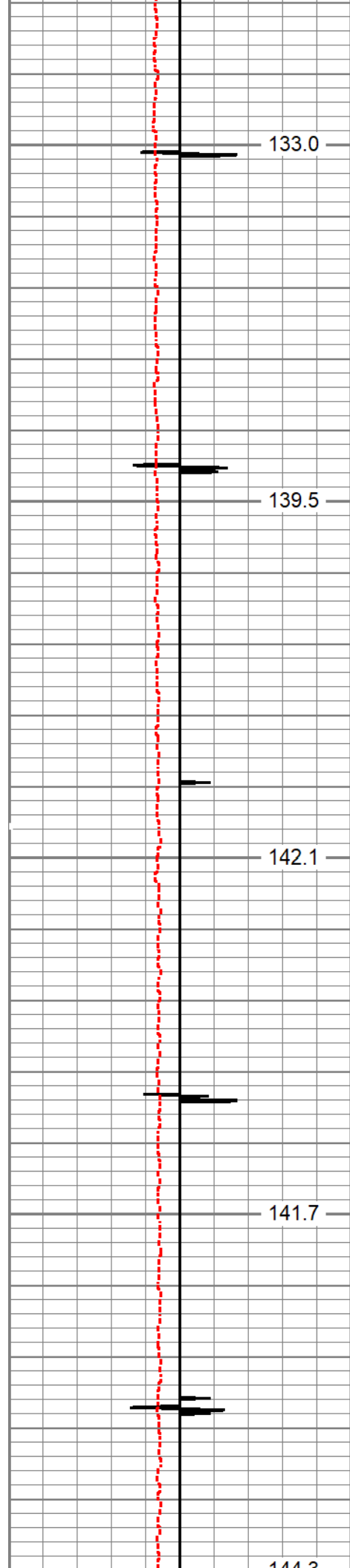
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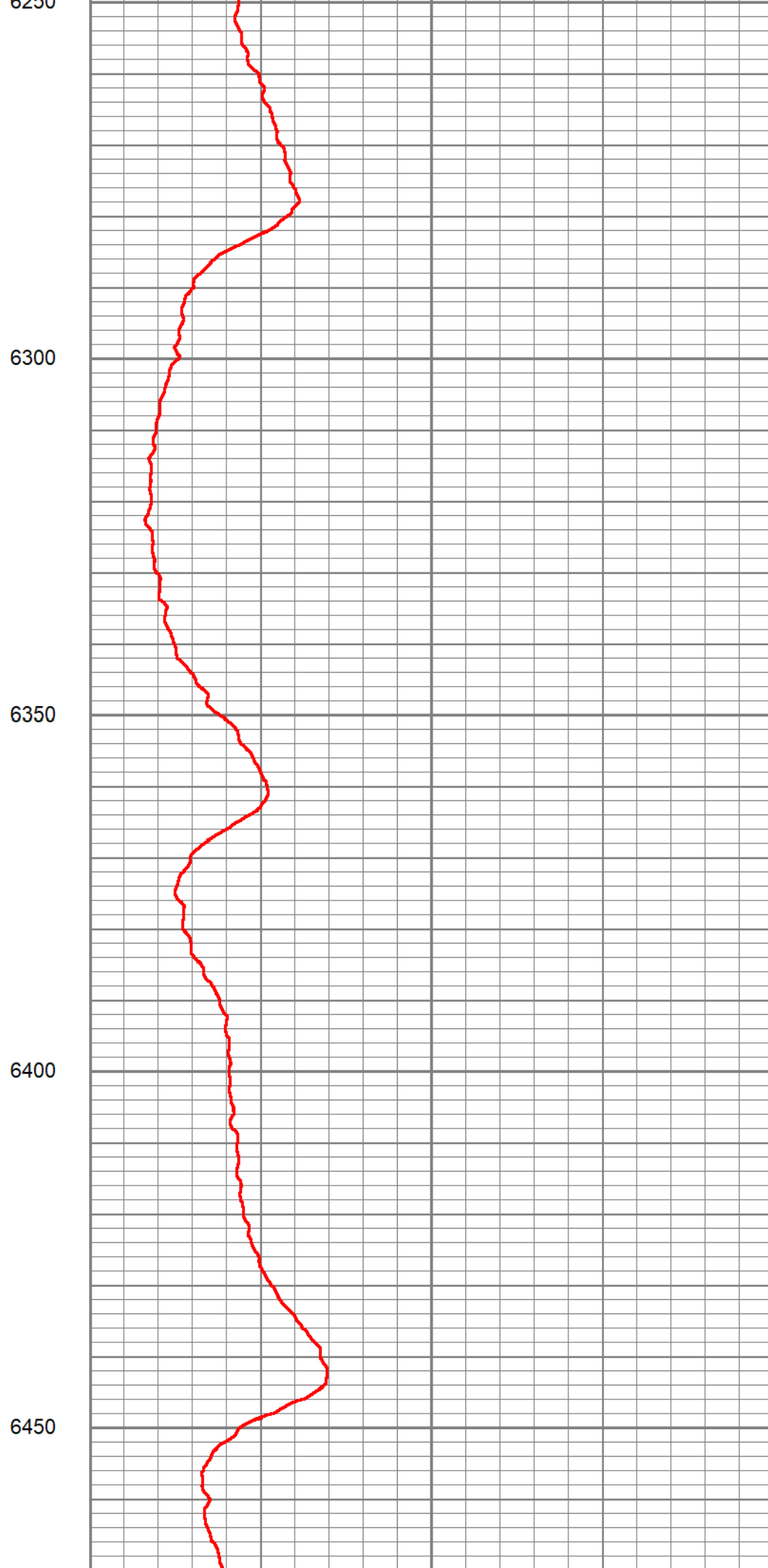
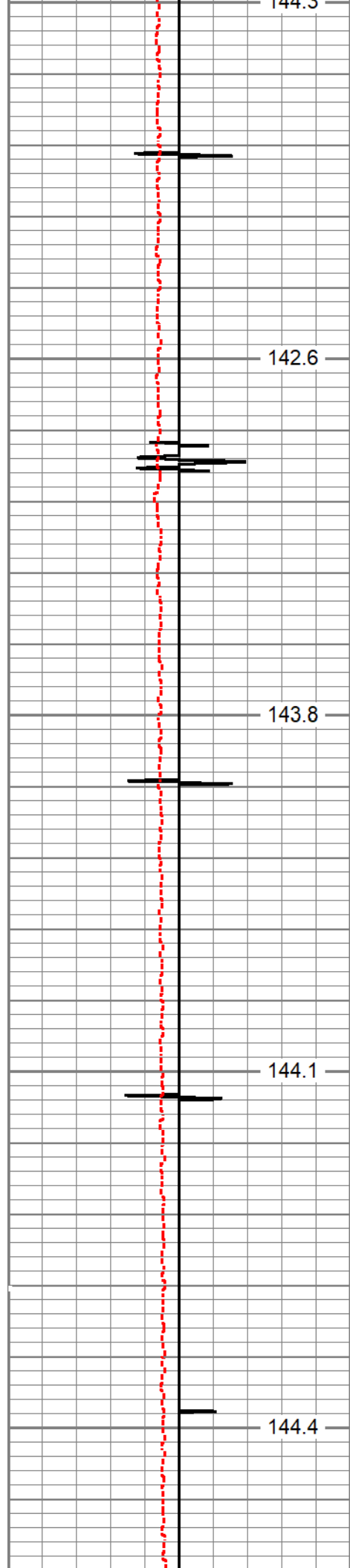
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6000

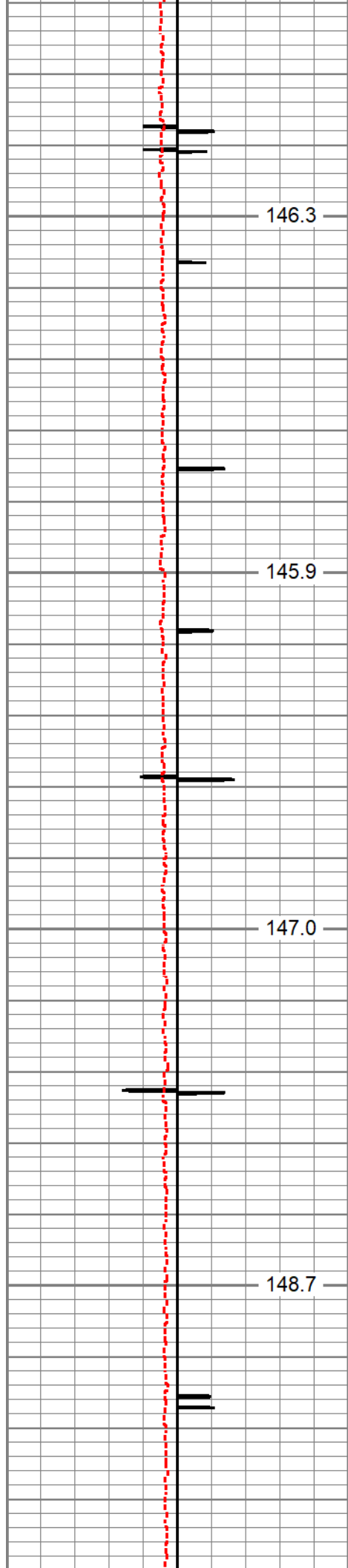


Estimated Top of Cement →







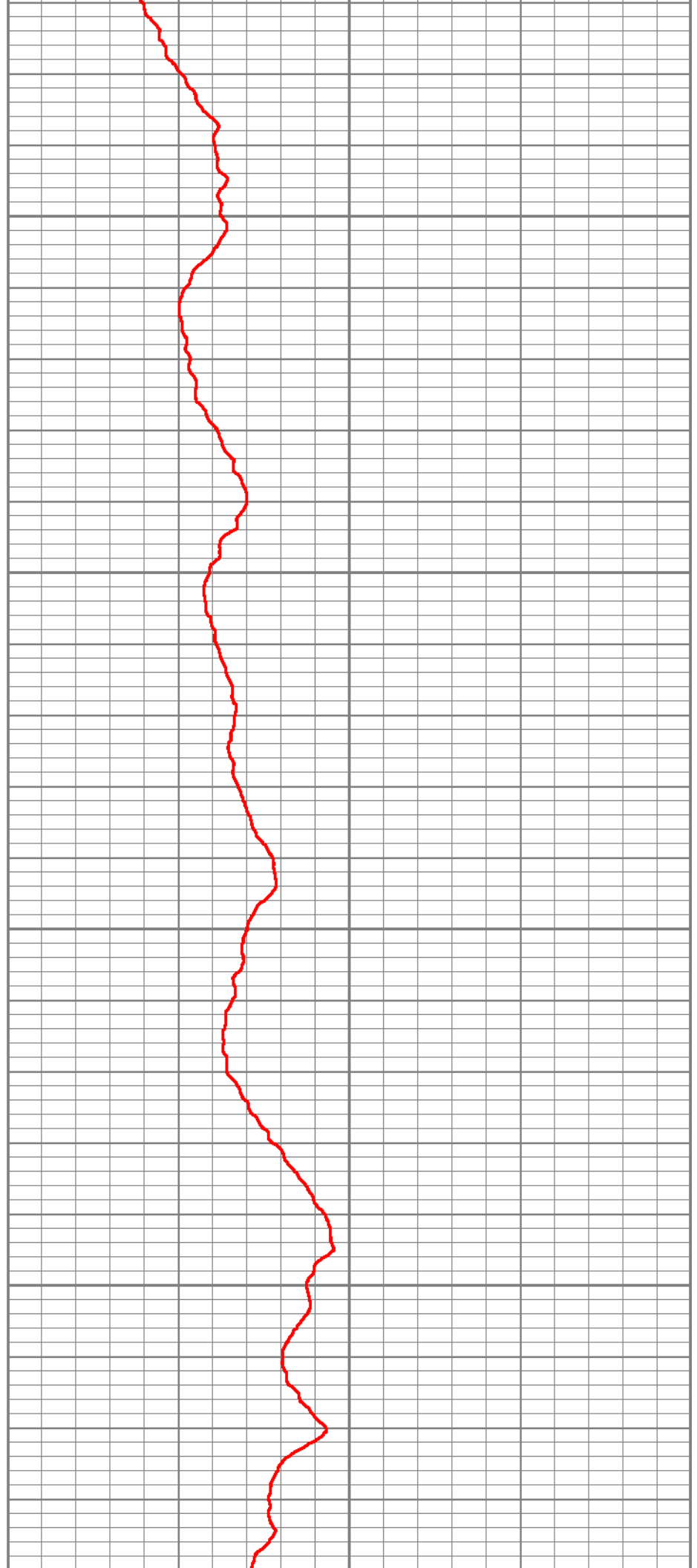


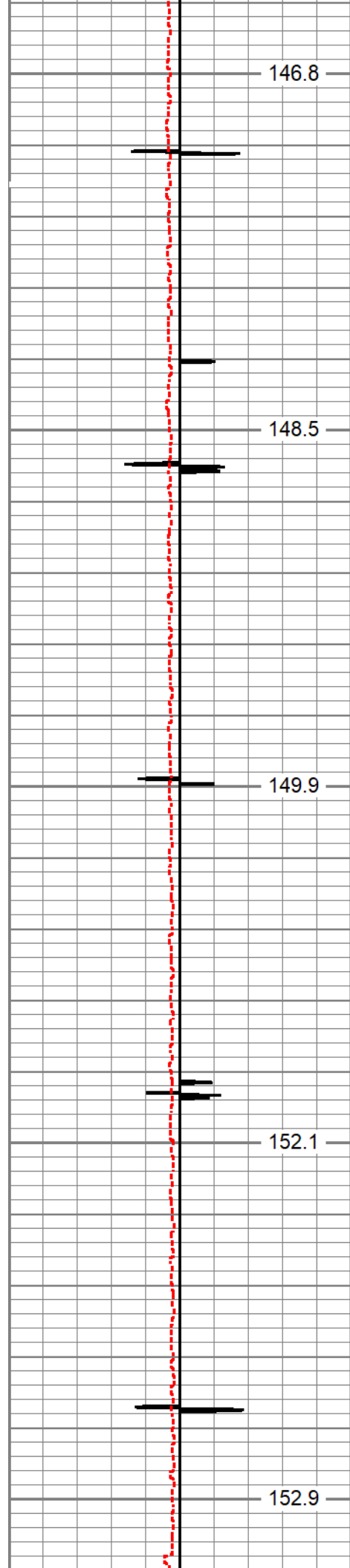
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6550

6600

6650





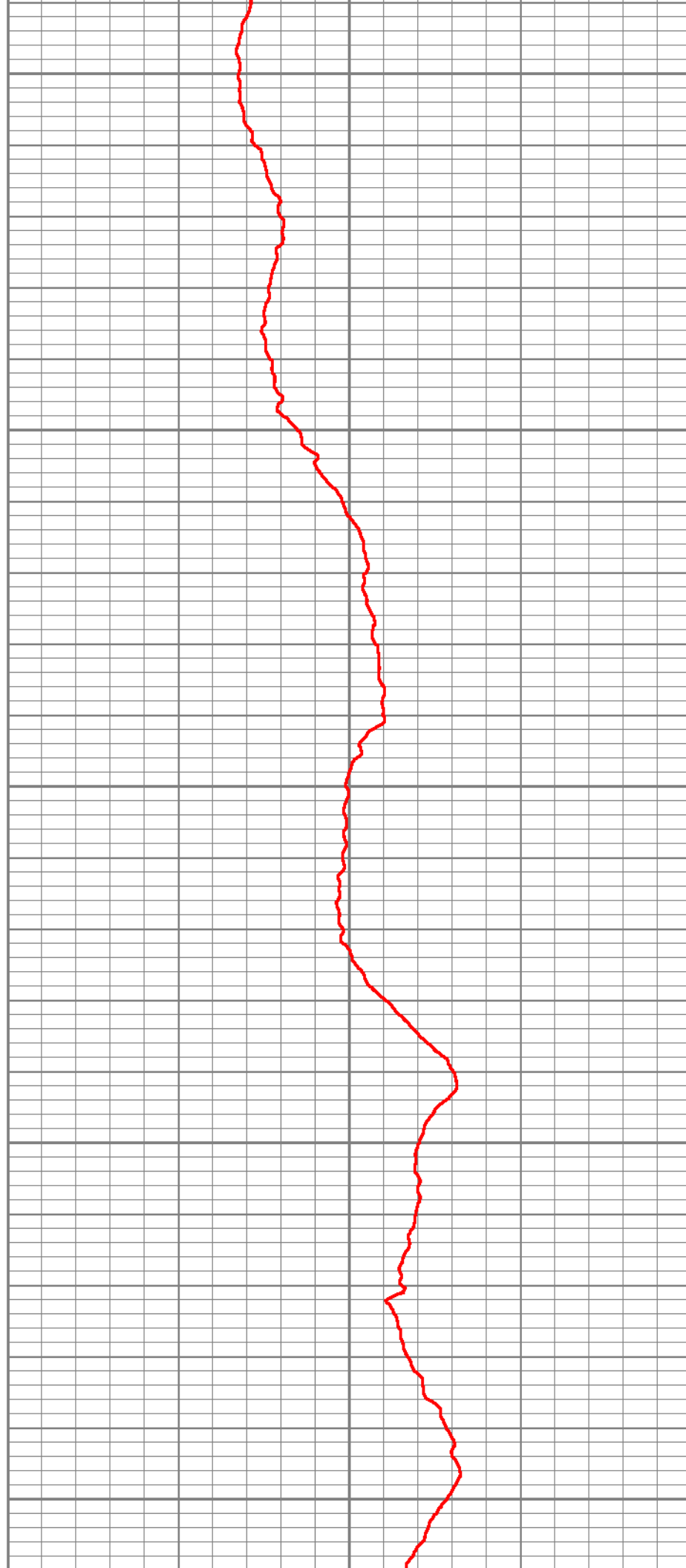
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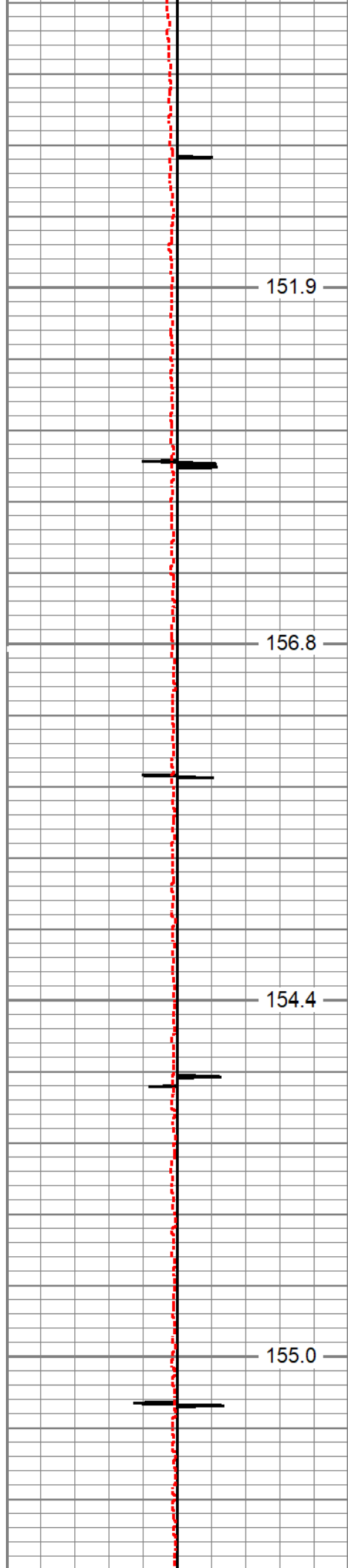
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6800

6850

6900



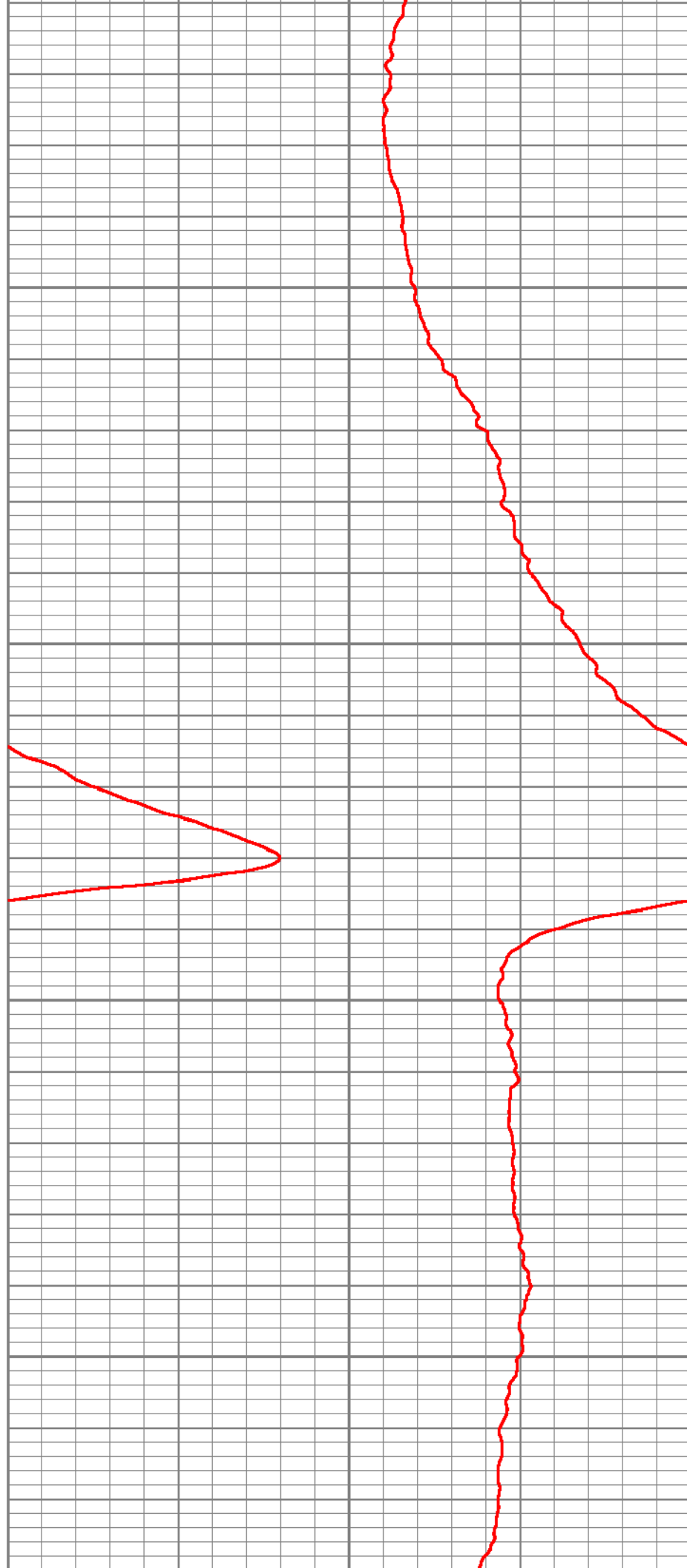


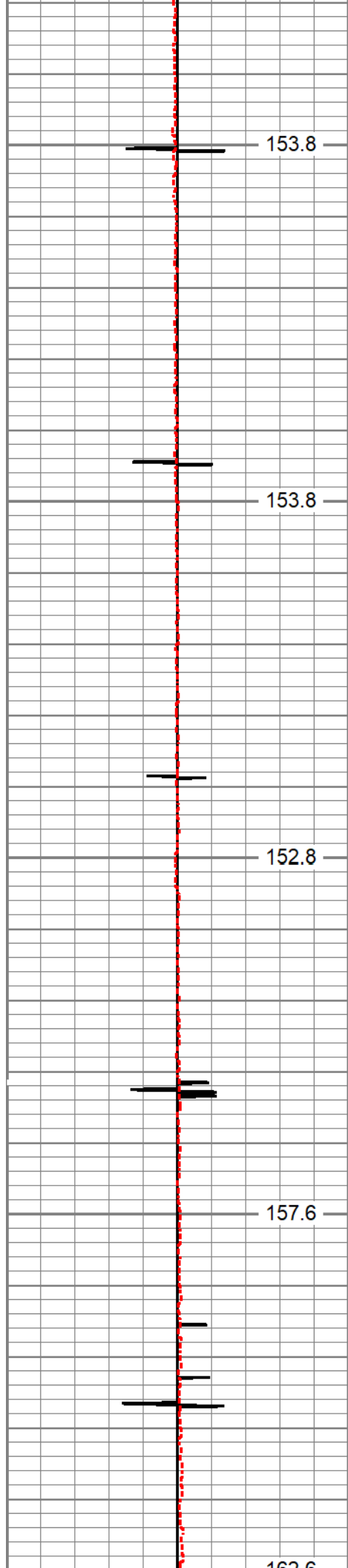
6950

7000

7050

7100





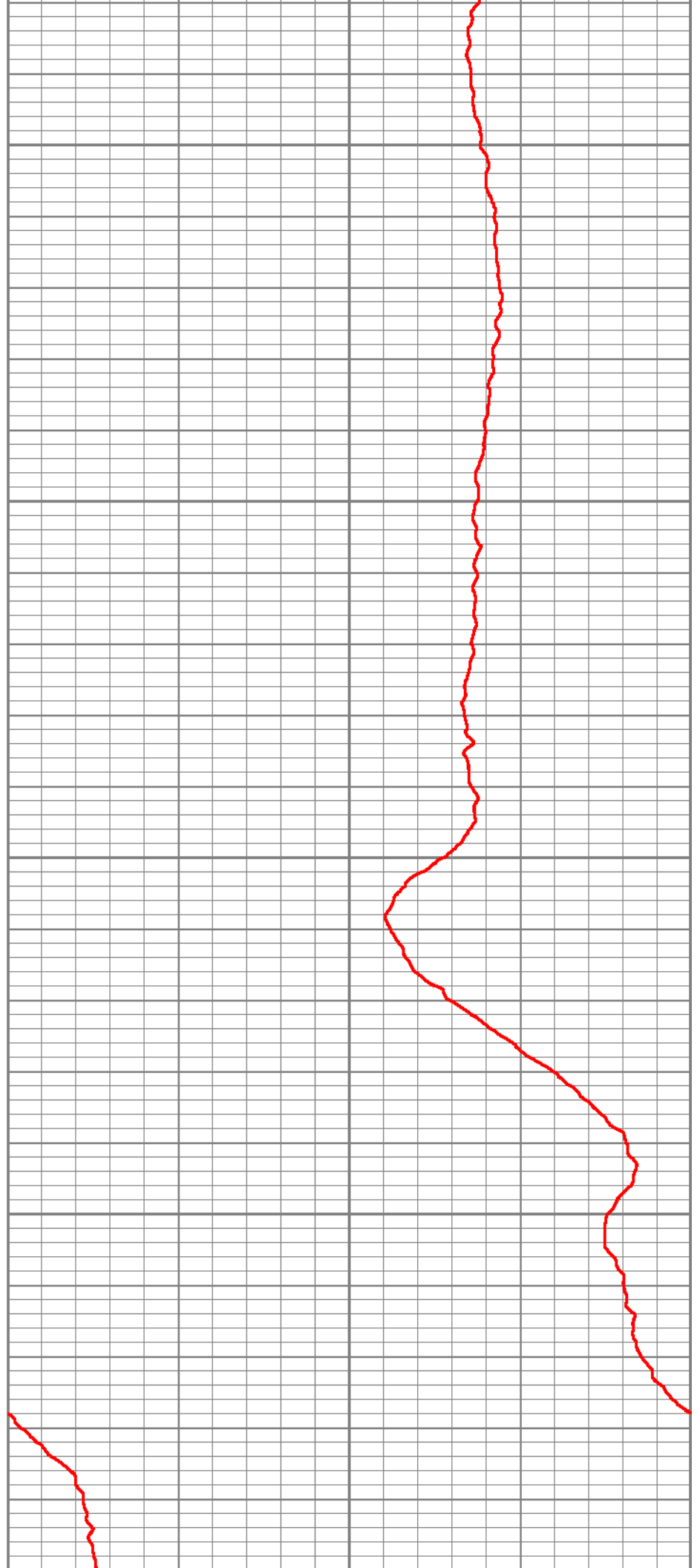
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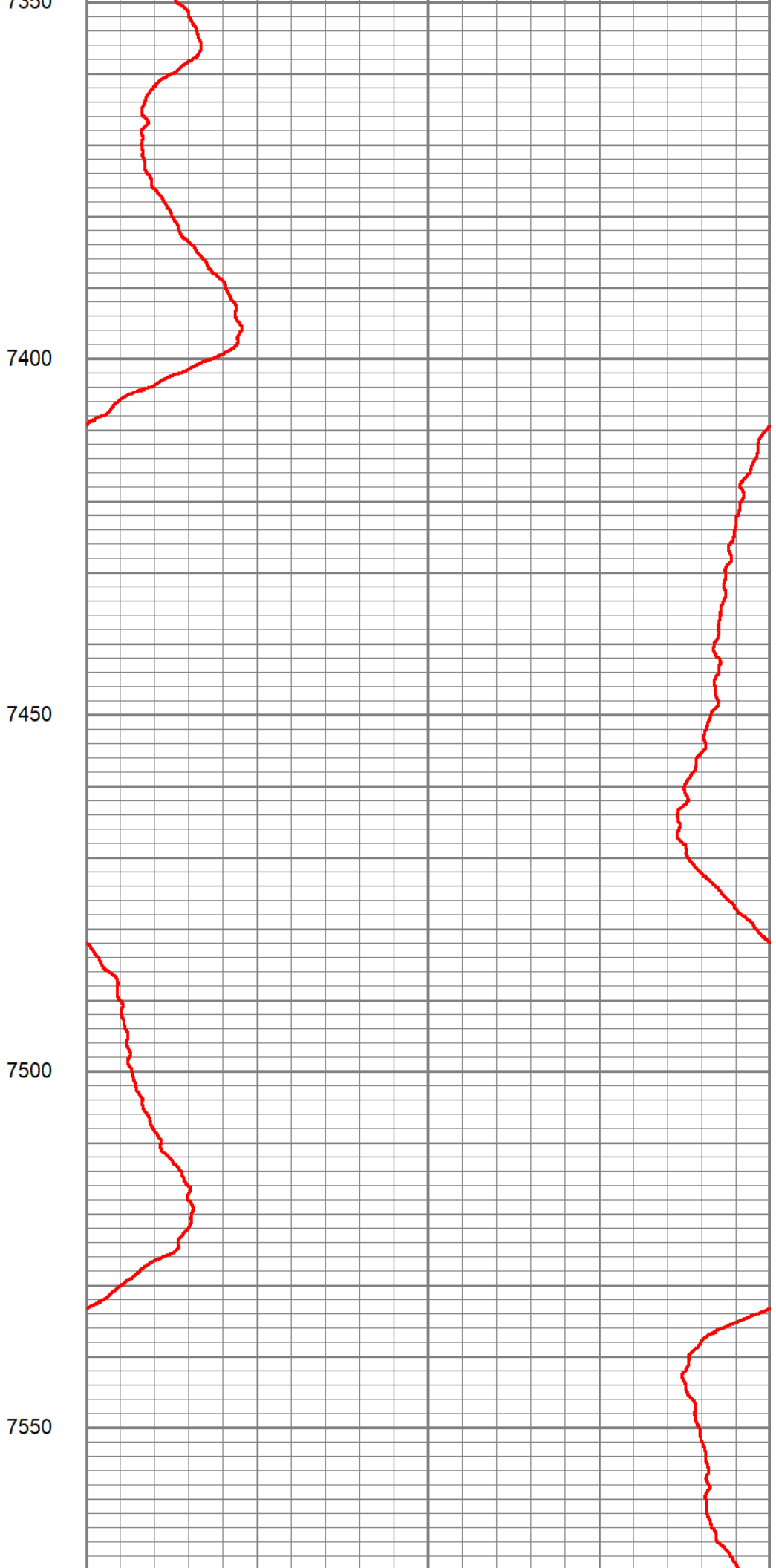
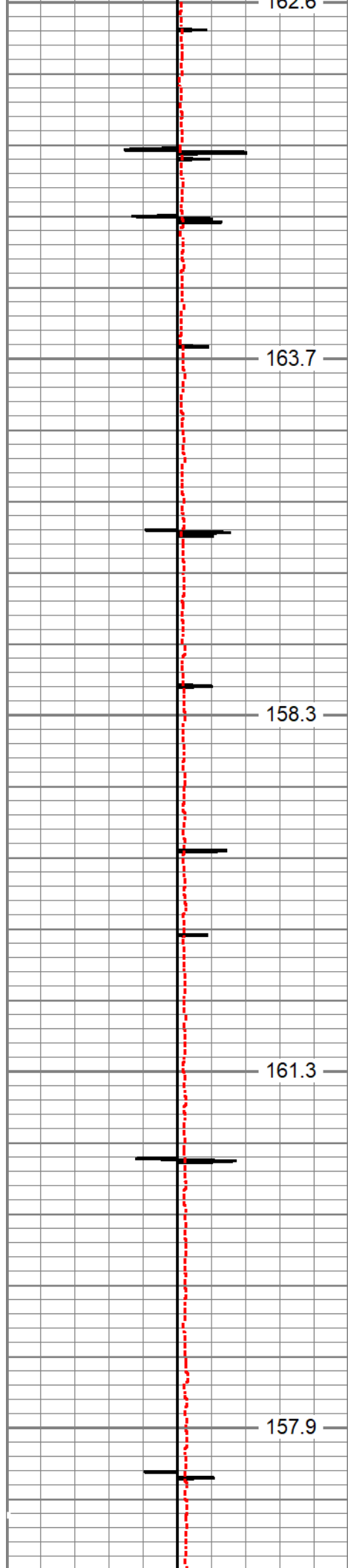
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7250

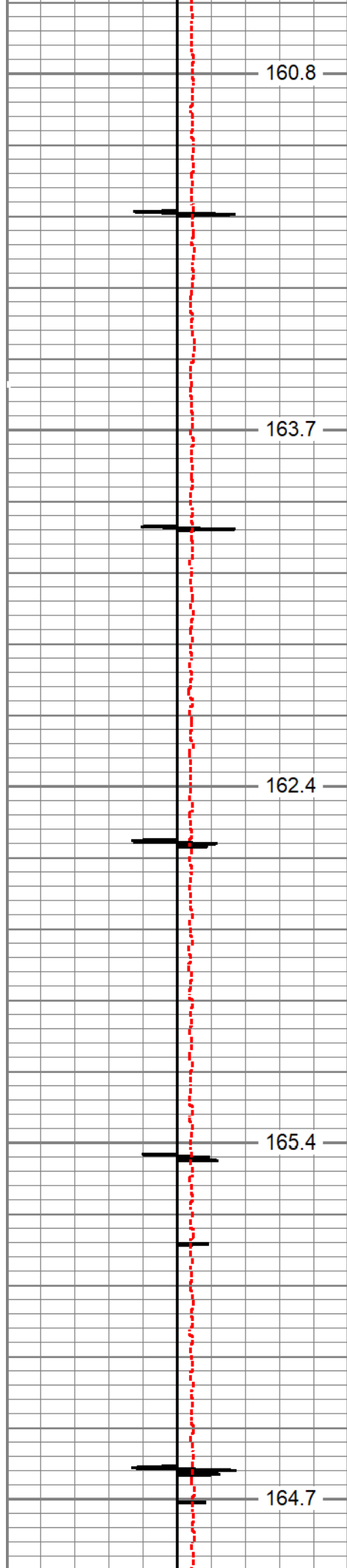
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7350









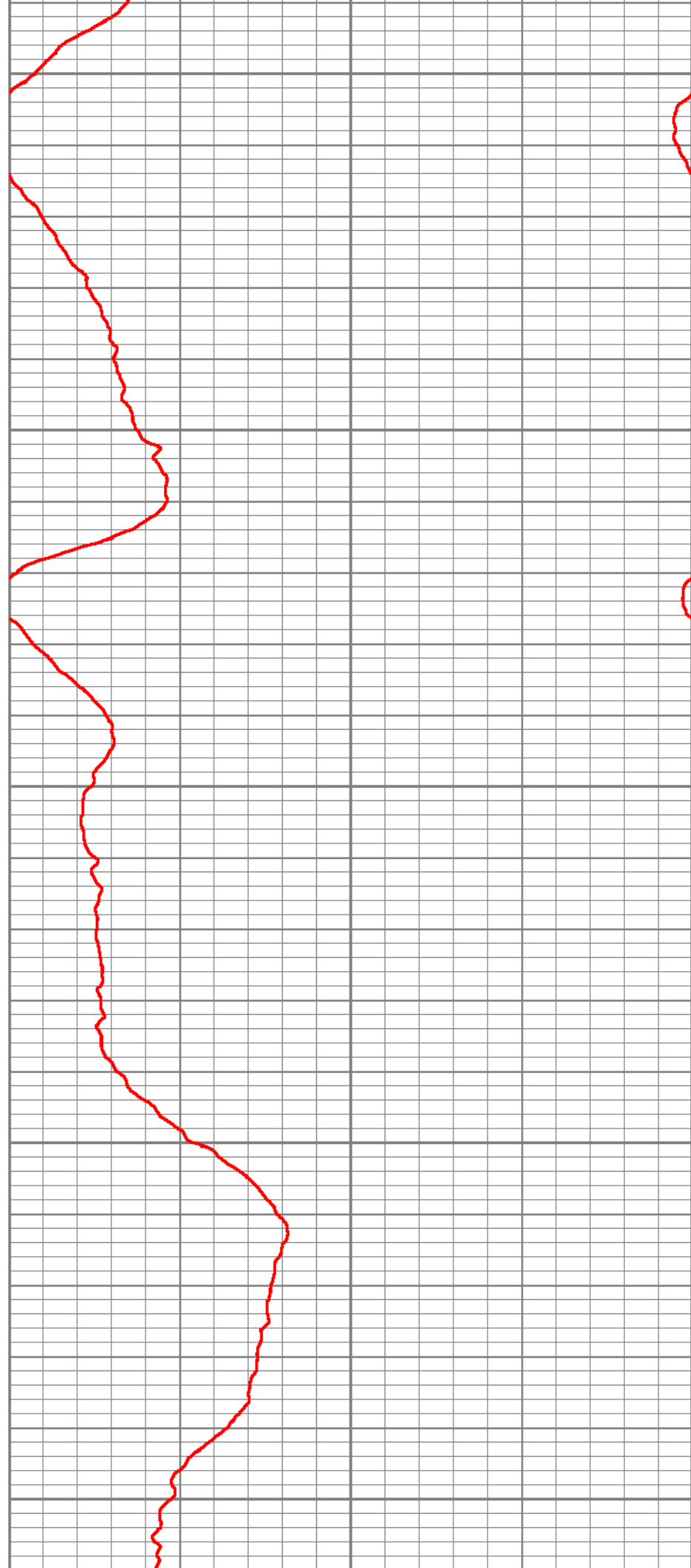
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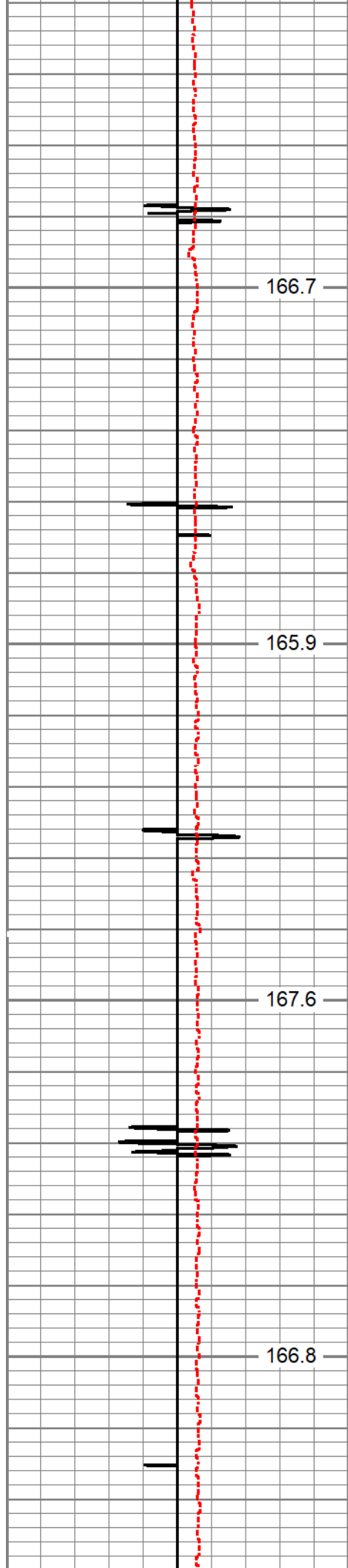
7850

7900

7950

8000





166.7

8050

165.9

8100

167.6

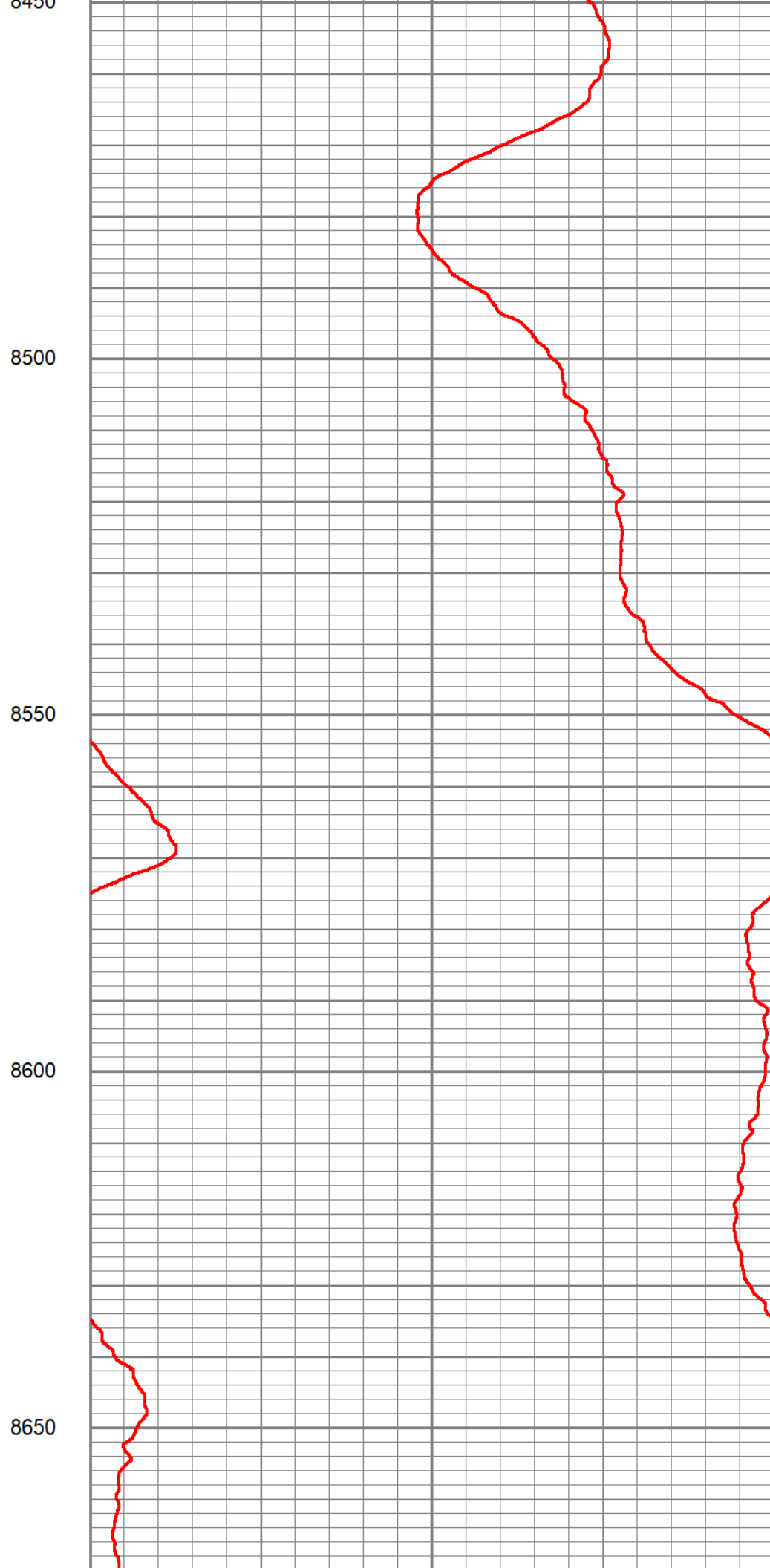
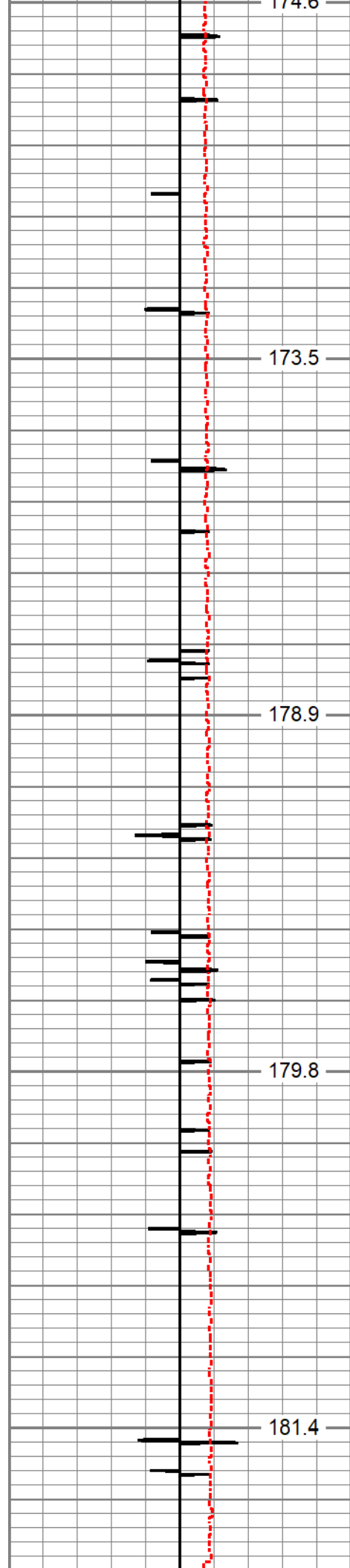
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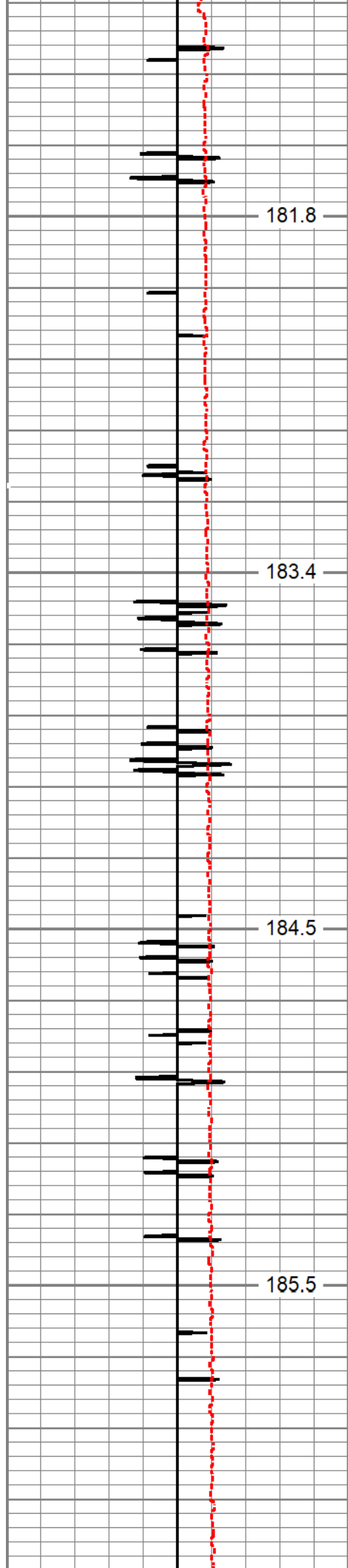
166.8

8200









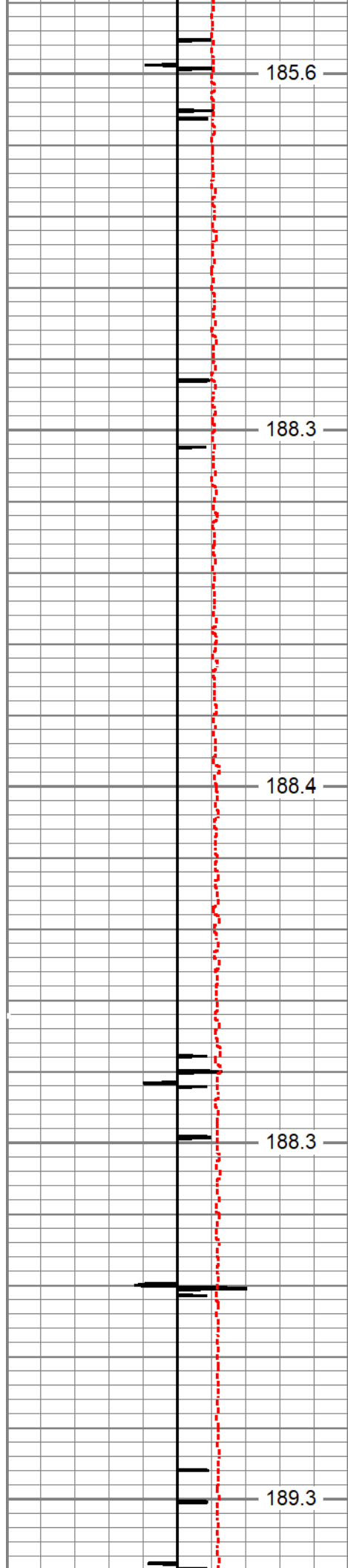
8700

8750

8800

8850





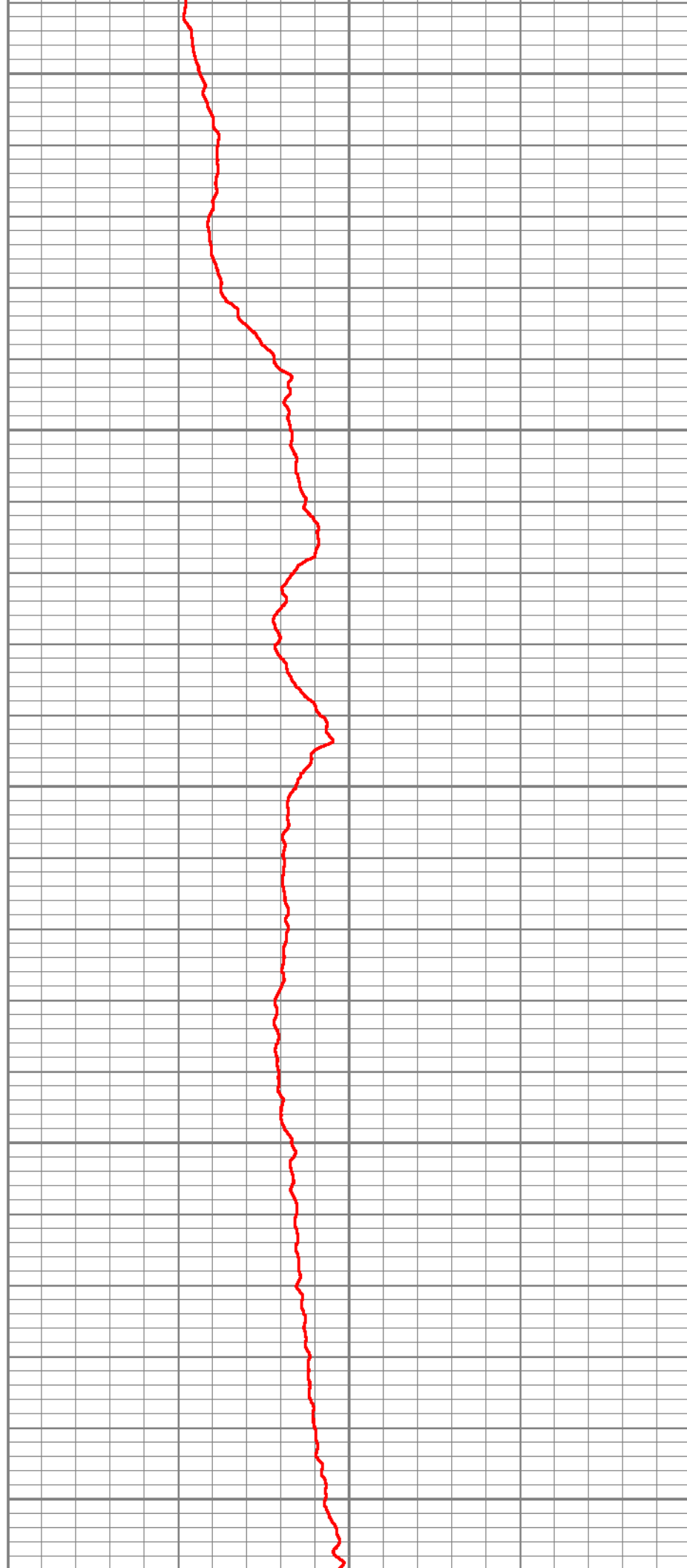
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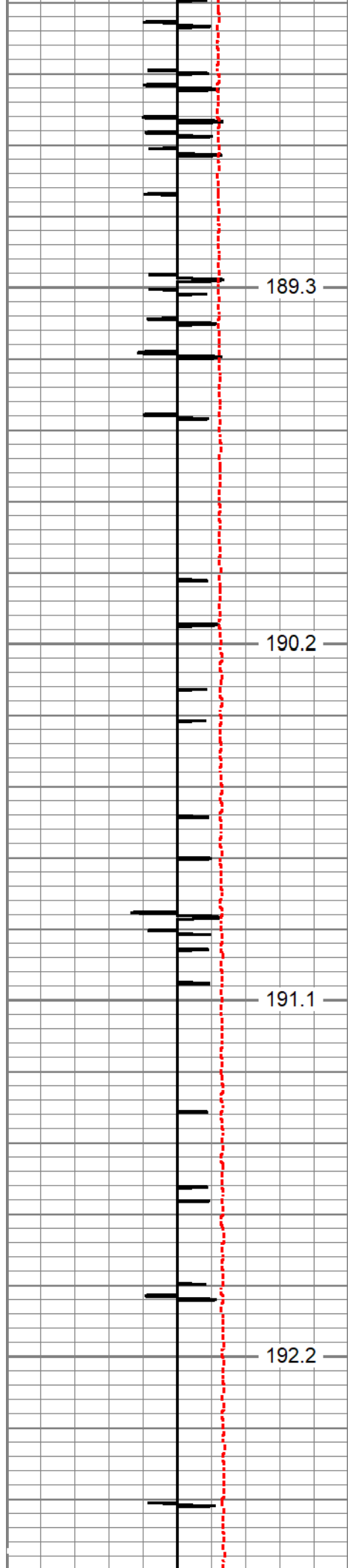
8950

9000

9050

9100





189.3

190.2

191.1

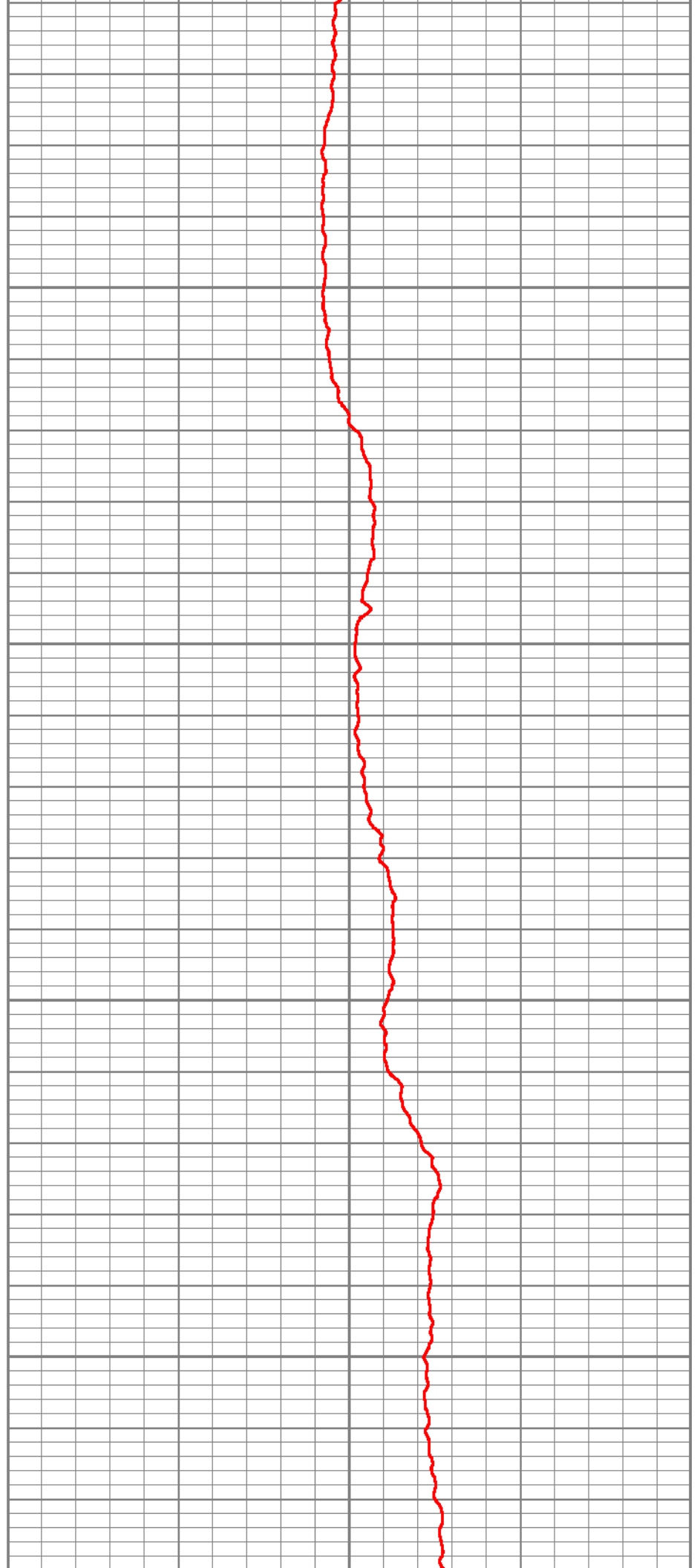
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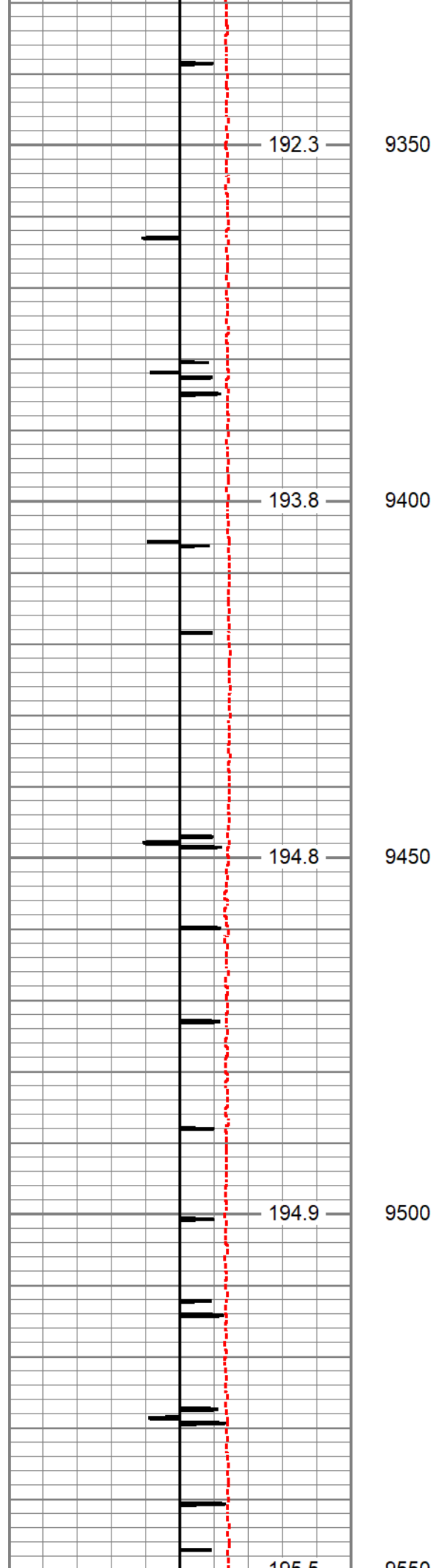
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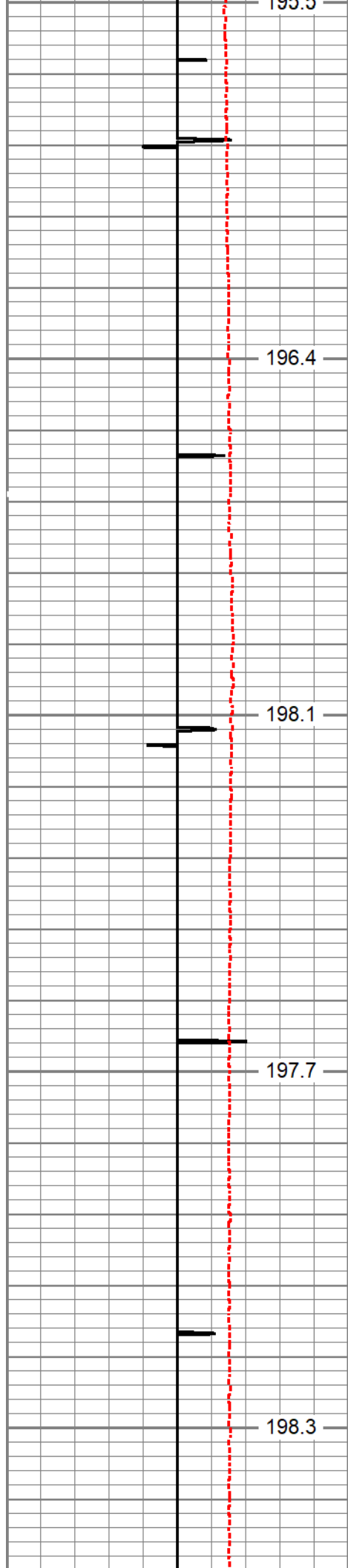
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9250

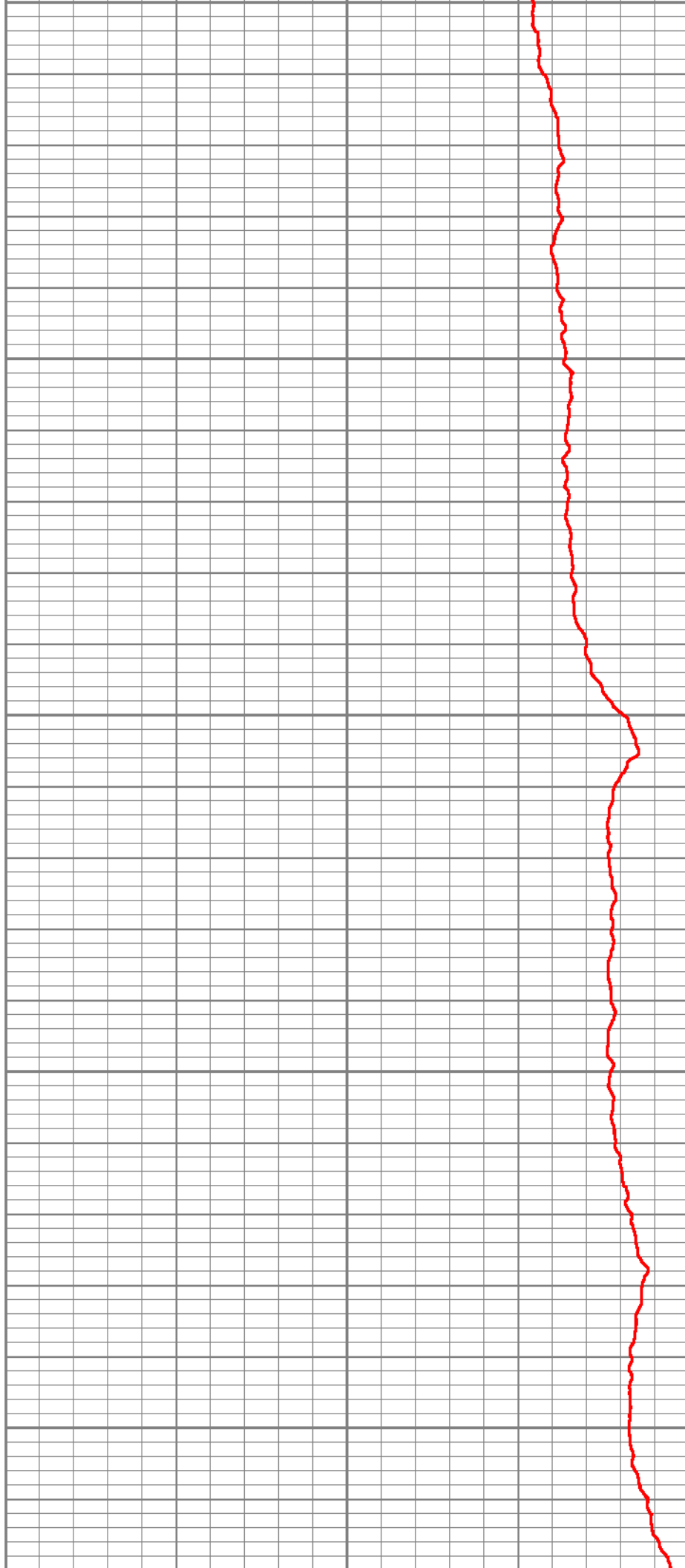
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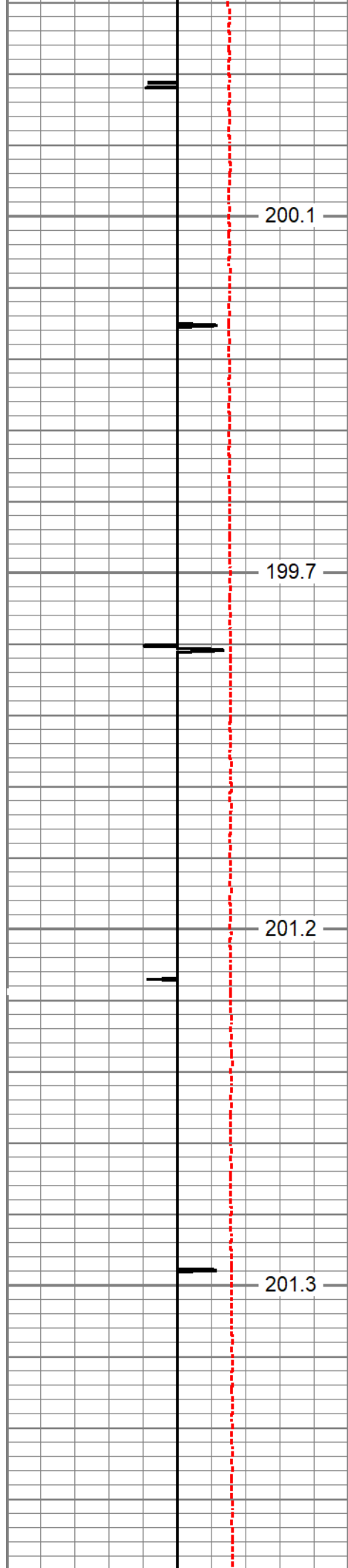






9550  
9600  
9650  
9700  
9750





9800

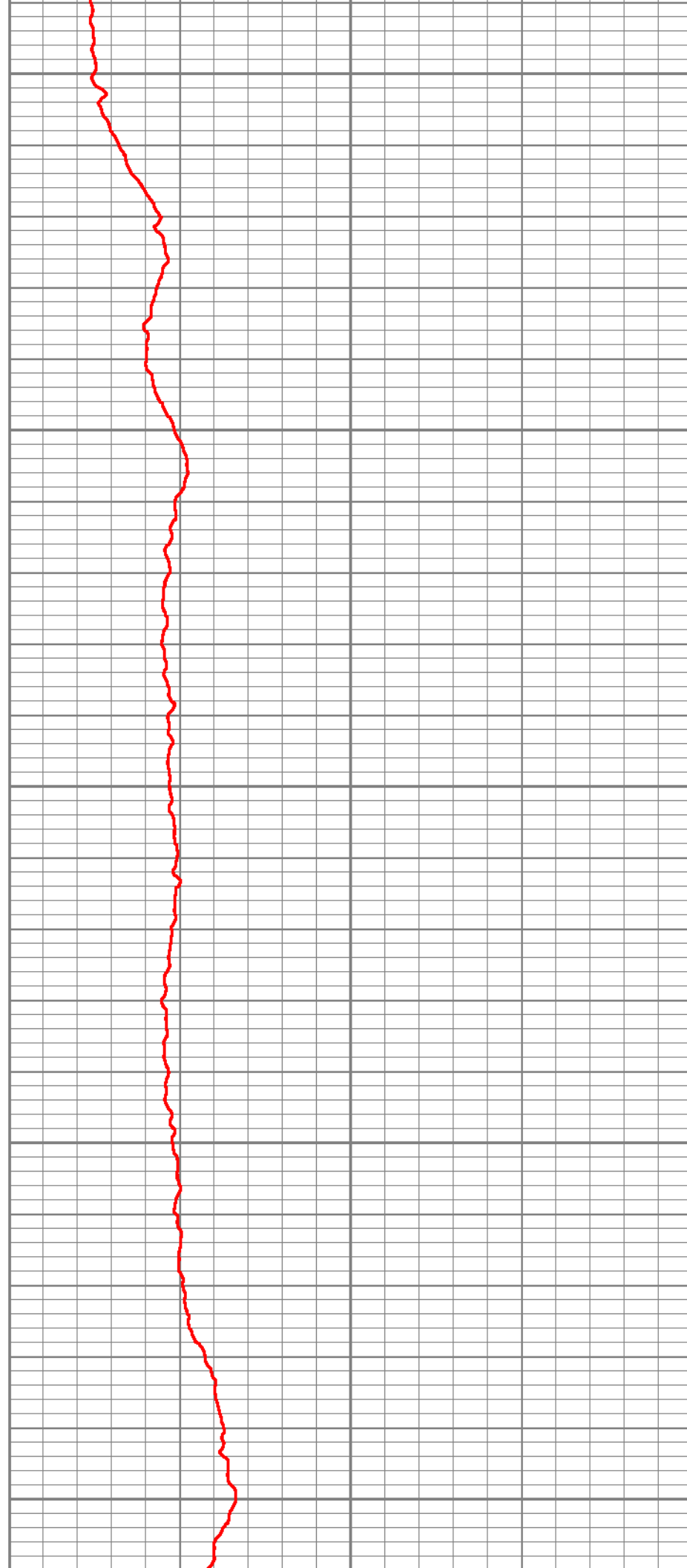
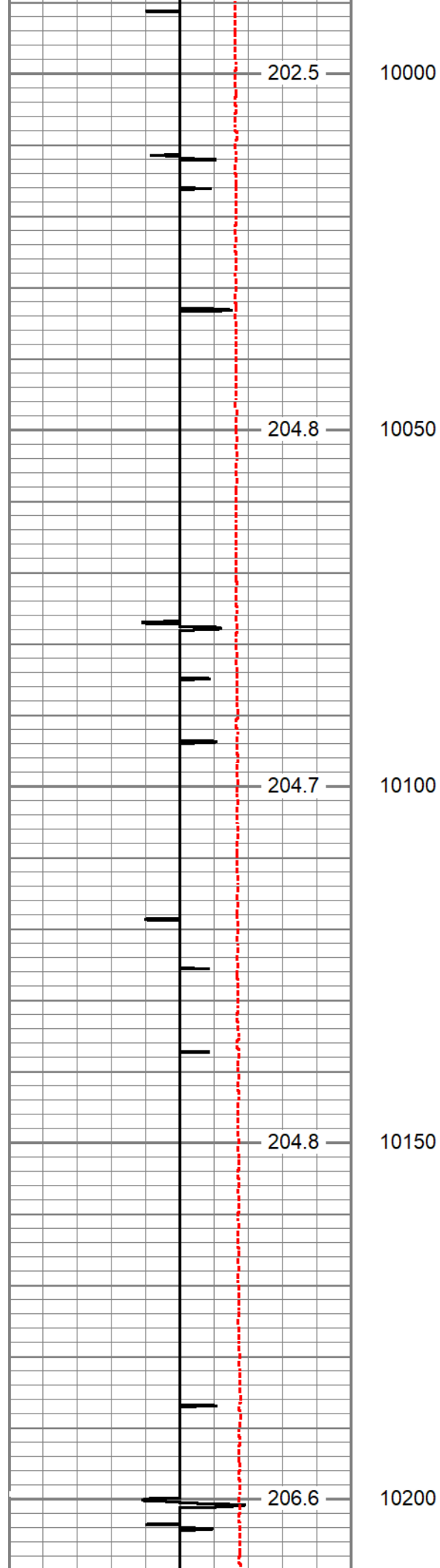
9850

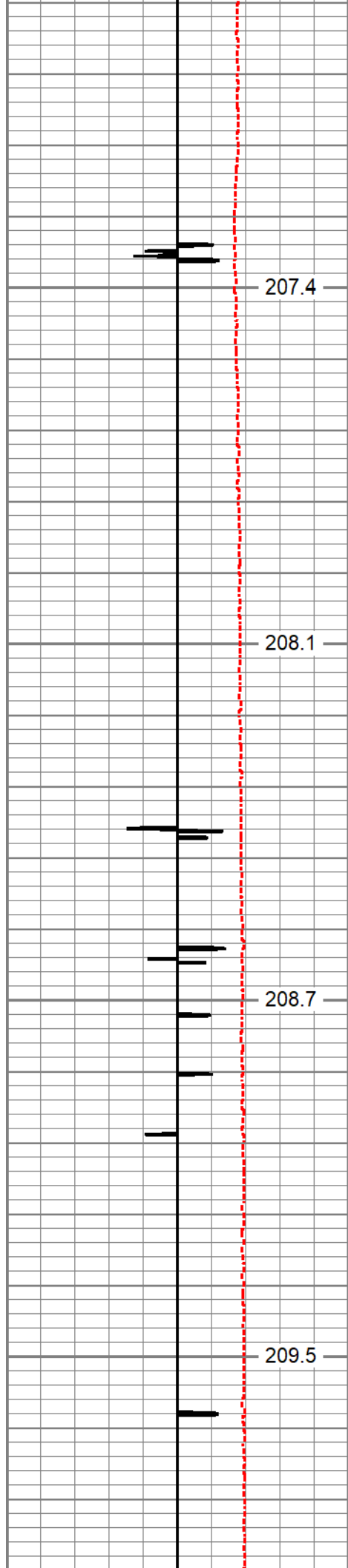
9900

9950









207.4

10250

208.1

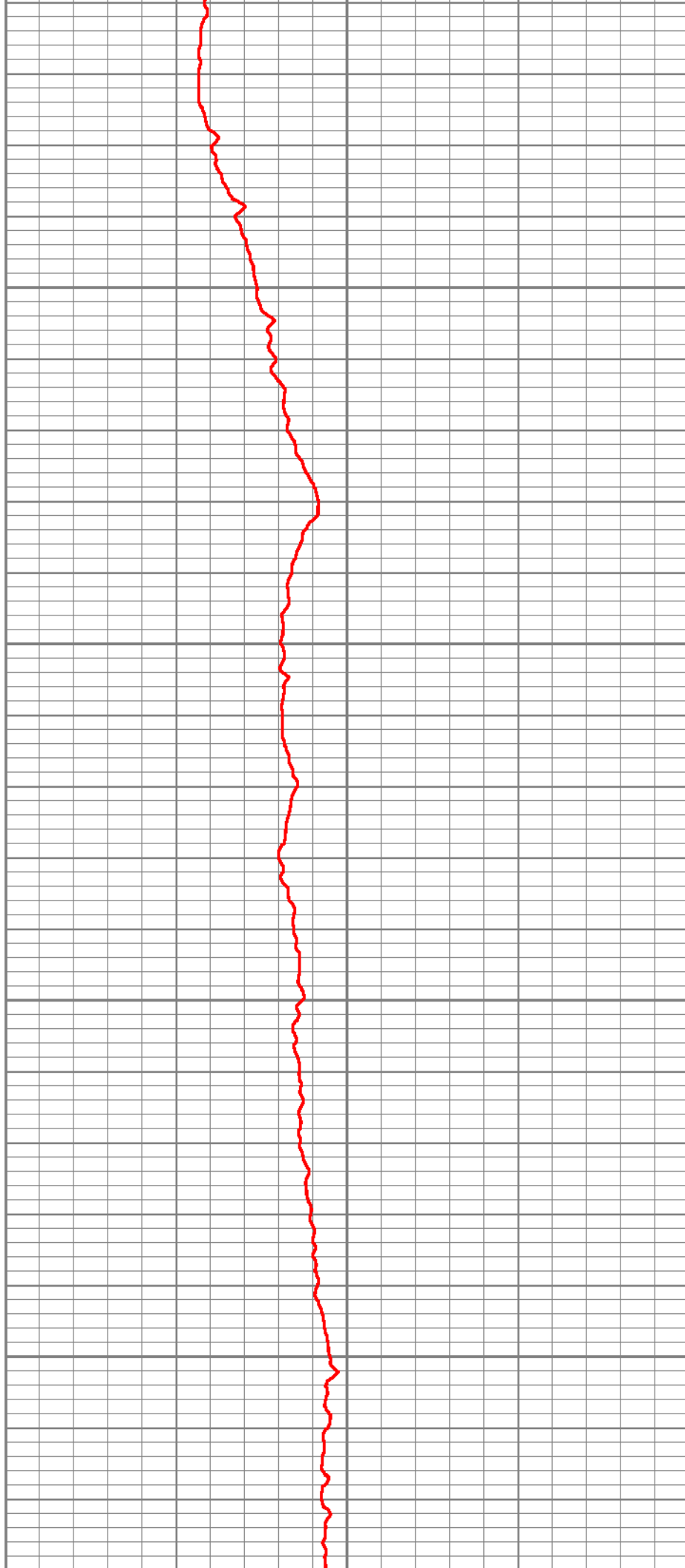
10300

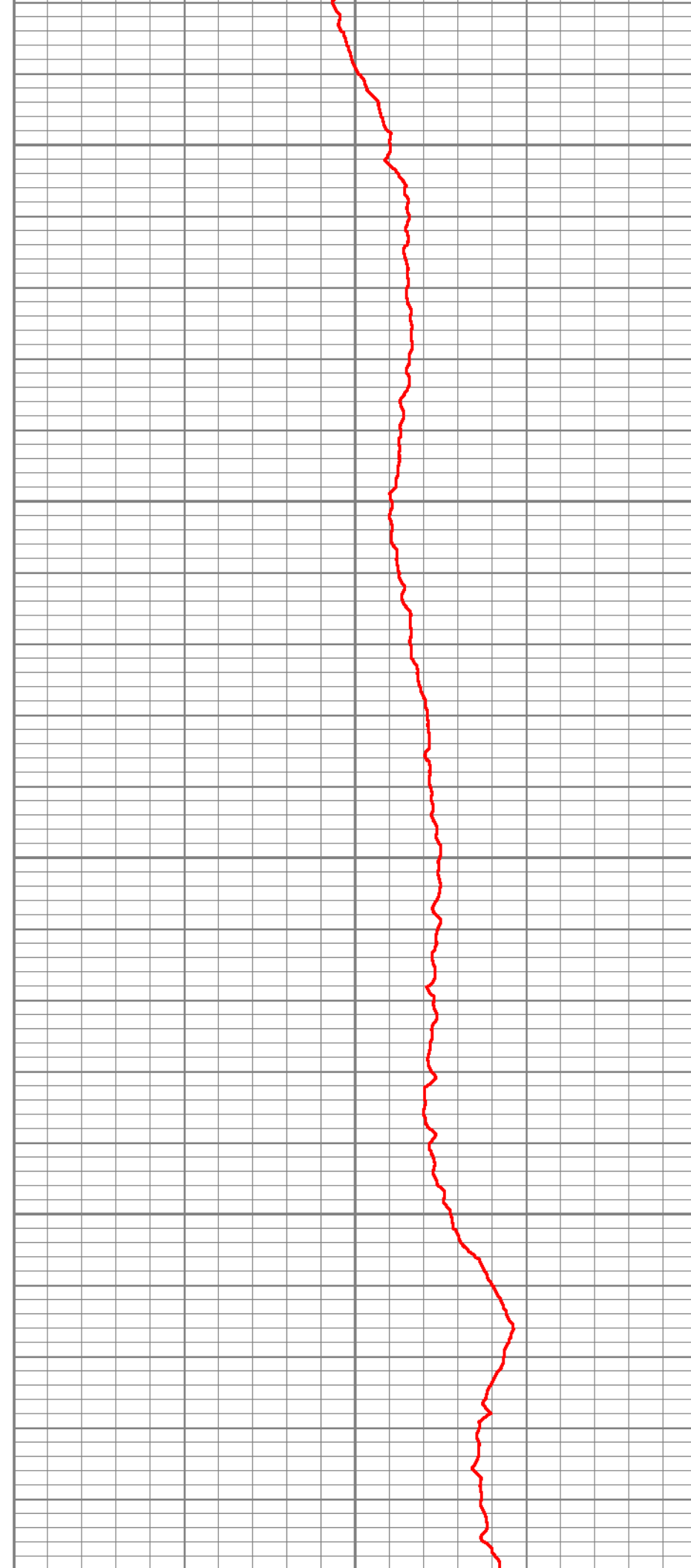
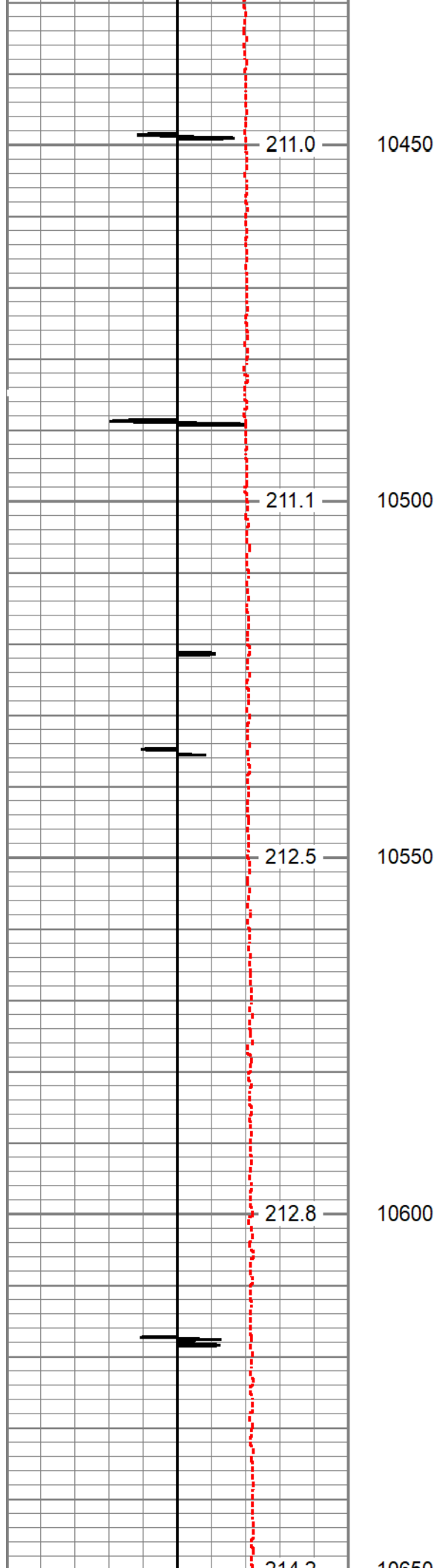
208.7

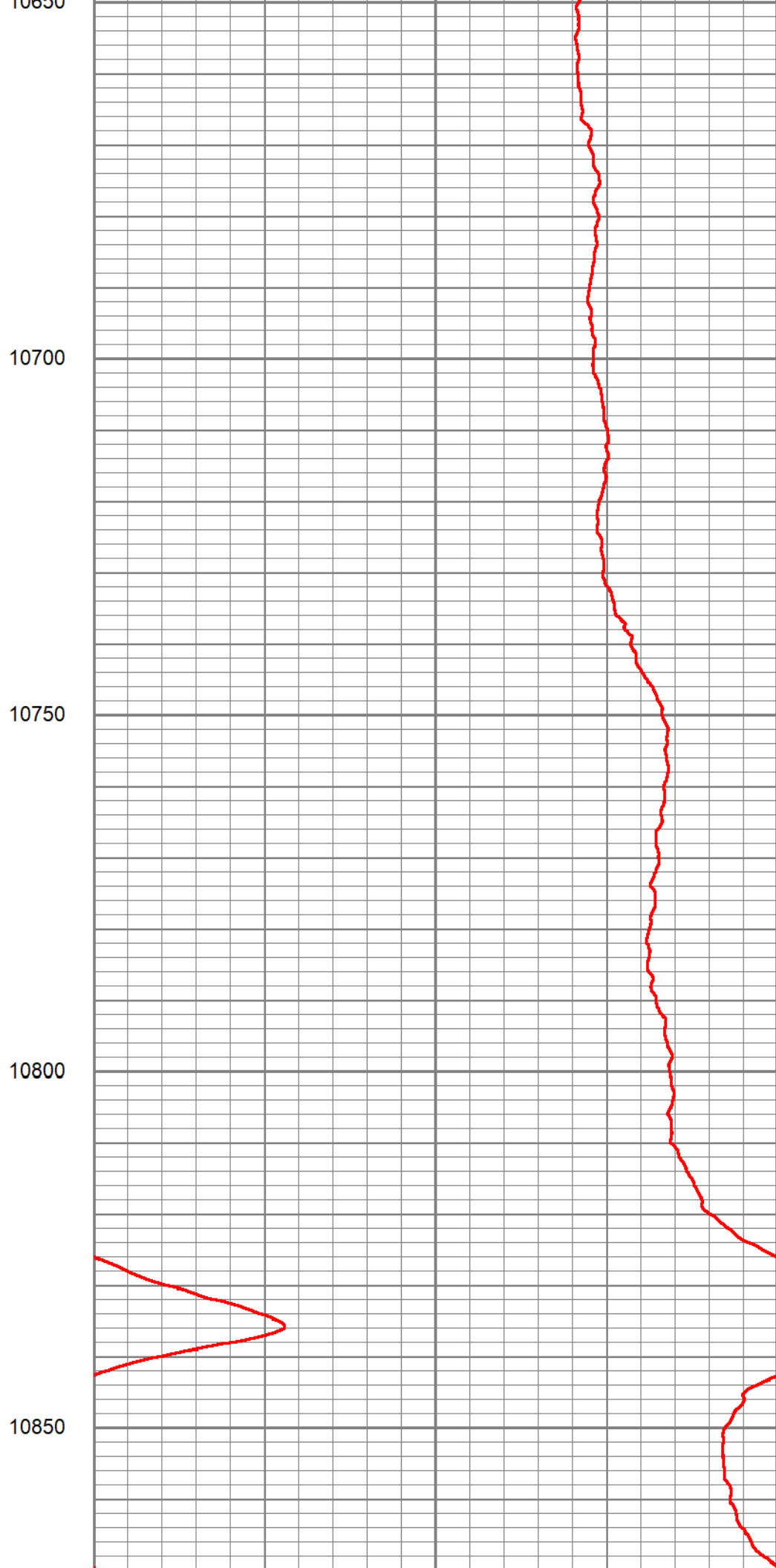
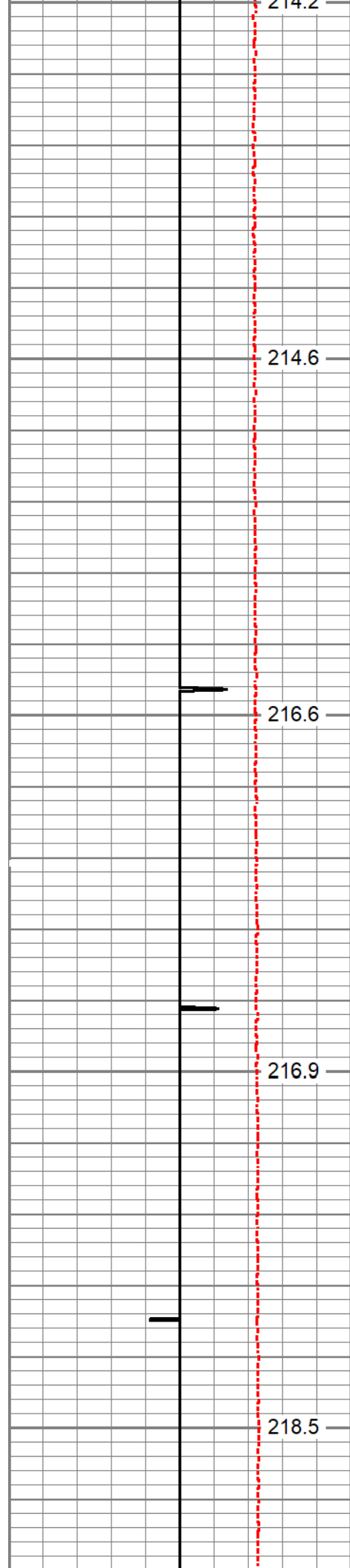
10350

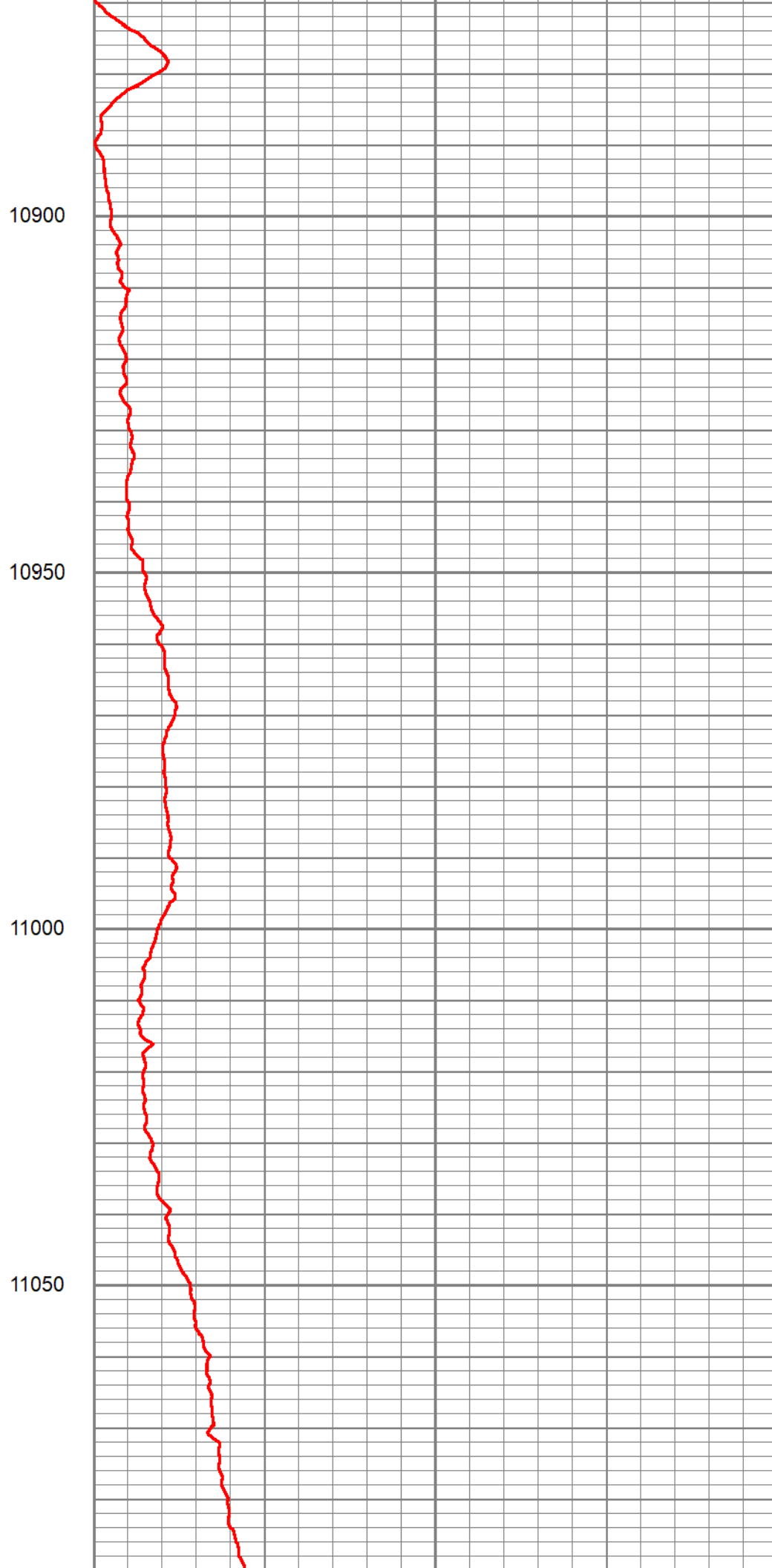
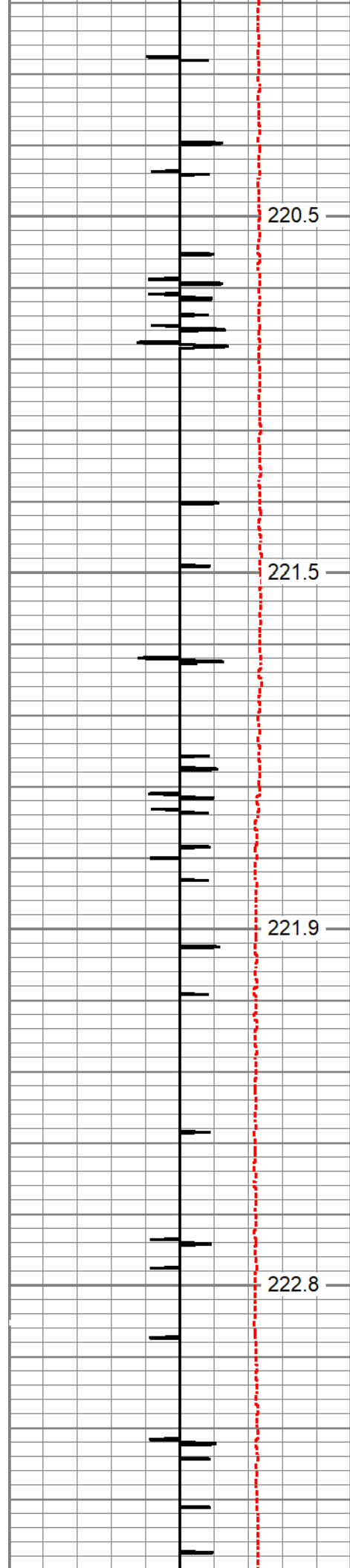
209.5

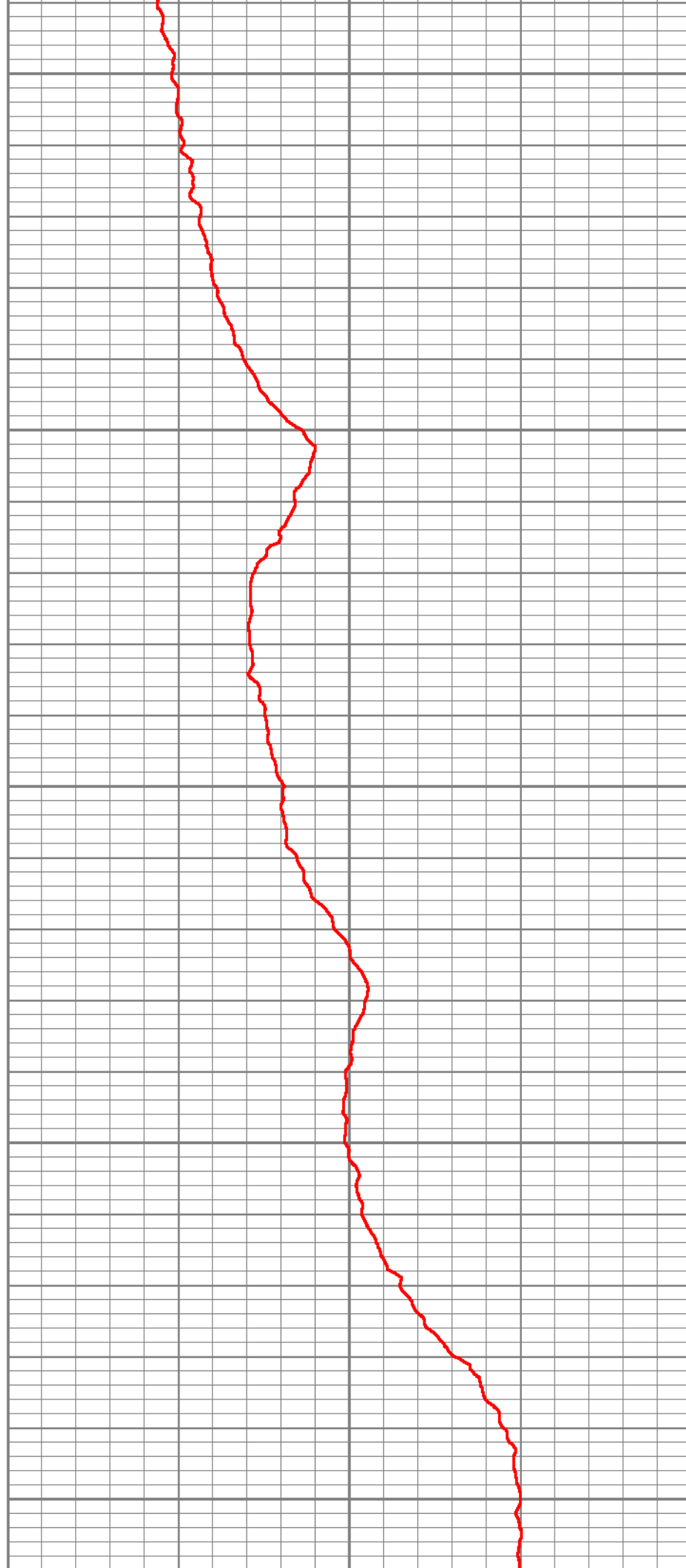
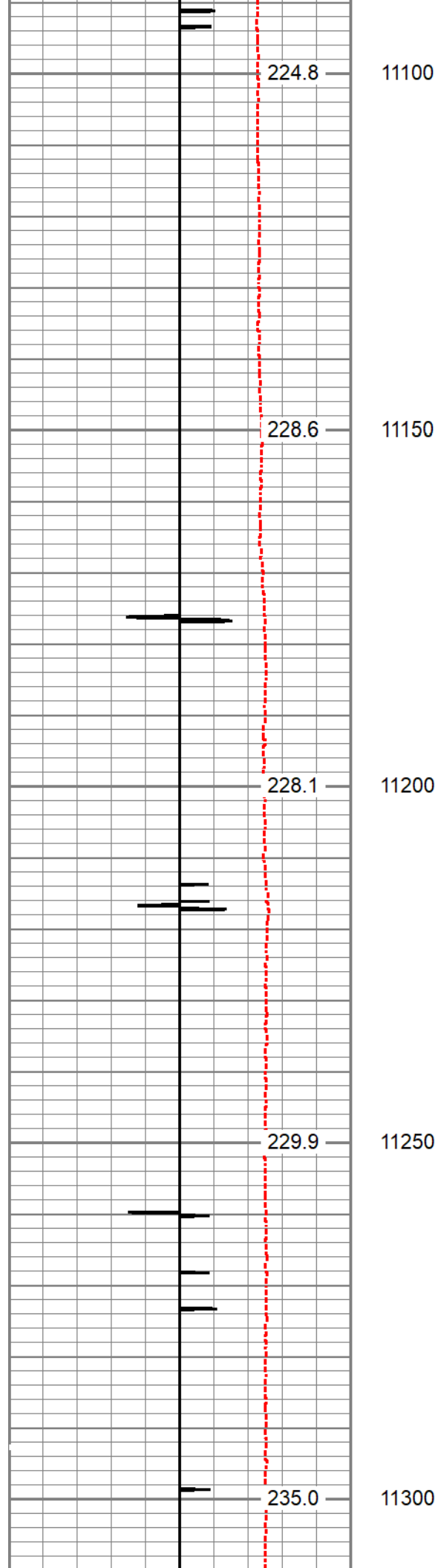
10400

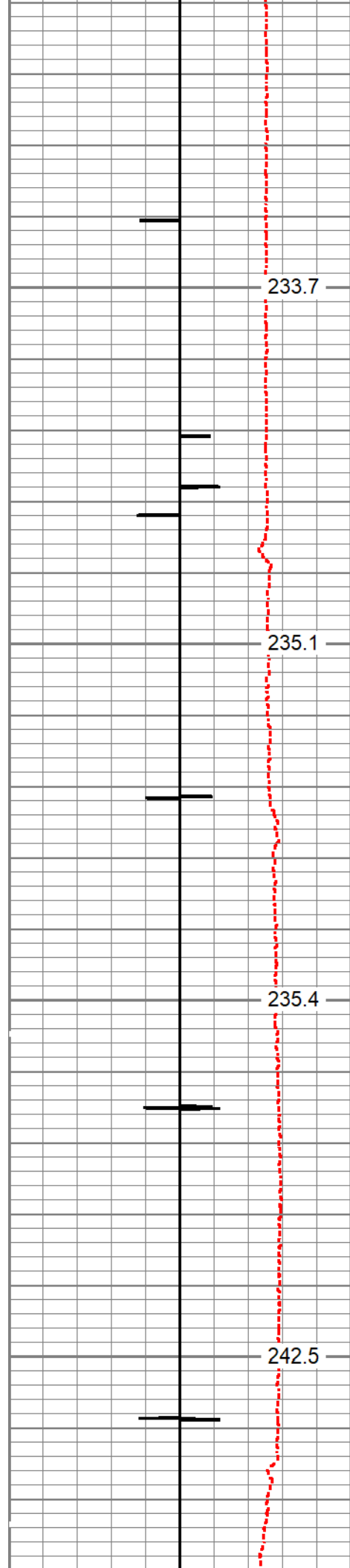












11350

11400

11450

11500

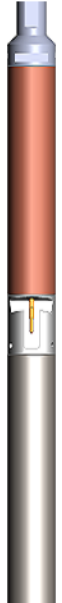


5	CCL\$1	-5	100	GCT_Temp (degF)	120
0	LTEN (lb)	1500			
	GCT_Temp (degF)				

Calibration Report	
Database File	tep_fed wmc 13-20_temp_10-28-2022.db
Dataset Pathname	main
Dataset Creation	Fri Oct 28 08:49:06 2022


Gamma Ray Calibration Report		
Serial Number:	110255	
Tool Model:	GCTacc_6-Pin-Base	
Performed:	Thu Sep 22 15:12:49 2022	
Calibrator Value:	165.0	GAPI
Background Reading:	72.3	cps
Calibrator Reading:	300.9	cps
Sensitivity:	0.7216	GAPI/cps

Inclinometer Calibration Report					
Performed:	Thu Sep 22 15:14:31 2022				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-910.00	1566.00	-1.00	1.00	gee
Y Accelerometer	-989.00	1748.00	-1.00	1.00	gee
Z Accelerometer	1.02	-895.47	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GCT_HV	5.38					
CCL\$2	4.39					
CCL\$1	4.39					
GCT_TEMP	3.51					
GR	2.71		GCacc-GCTacc_6-Pin-Base (110255) Probe 2.75" Gamma Ray - CCL w/ Temp and 6 Pin Bottom	5.00	2.75	



GCT_IntTemp	1.67					
GCT_ACCZ	0.00					
GCT_ACCY	0.00					
GCT_ACCX	0.00					
GCT_FMWR	0.00					
Error_Ct	0.00					
<div> <div>Dataset:</div> <div>tep_fed wmc 13-20_temp_10-28-2022.db: field/well/run1/main</div> </div> <div> <div>Total length:</div> <div>5.00 ft</div> </div> <div> <div>Total weight:</div> <div>lb</div> </div> <div> <div>O.D.:</div> <div>2.75 in</div> </div>						

Company	TEP Rocky Mountain LLC		
Well	Federal WMC 13-20		
Field	Rulison		
County	Garfield	State	Colorado
		Temperature Casing Collar Log	