



## Temperature Casing Collar Log

Company		TEP Rocky Mountain LLC	
Well		Federal WMC 312-20	
Field		Rulison	
County		Garfield	
State		Colorado	
Location:		API # : 05-045-24486	
Other Services			
SEC 17 TWP 7S RGE 93W		Elevation	
Permanent Datum		Ground Level	
Log Measured From		Kelly Bushing	
Drilling Measured From		Kelly Bushing	
7-OCT-2022			
Run Number		One	
Depth Driller		11268 FT	
Depth Logger		11200 FT	
Bottom Logged Interval		11200 FT	
Top Log Interval		Surface	
Open Hole Size		8.75"	
Type Fluid		Water	
Density / Viscosity		8.34 Lb/Gal	
Max. Recorded Temp.		249°F	
Estimated Cement Top		6020 FT	
Time Well Ready		ROA	
Time Logger on Bottom		18:45	
Equipment Number		8047	
Location		Grand Junction	
Recorded By		A. Ellsworth	
Witnessed By		R. Smith	
Run Number		Borehole Record	
Bit		From	
		To	
		Size	
		Weight	
		From	
		To	
Casing Record		Size	
Surface String		9-5/8"	
Prot. String		Wgt/Ft	
Production String		36	
Liner		Top	
		Surface	
		Bottom	
		1163 FT	
		11258 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\_federal wmc 312-20\_temp\_10-7-22.db  
Dataset Pathname    main  
Presentation Format    ros\_temp\_ql\_tep  
Dataset Creation      Fri Oct 07 18:02:13 2022  
Charted by            Depth in Feet scaled 1:10000

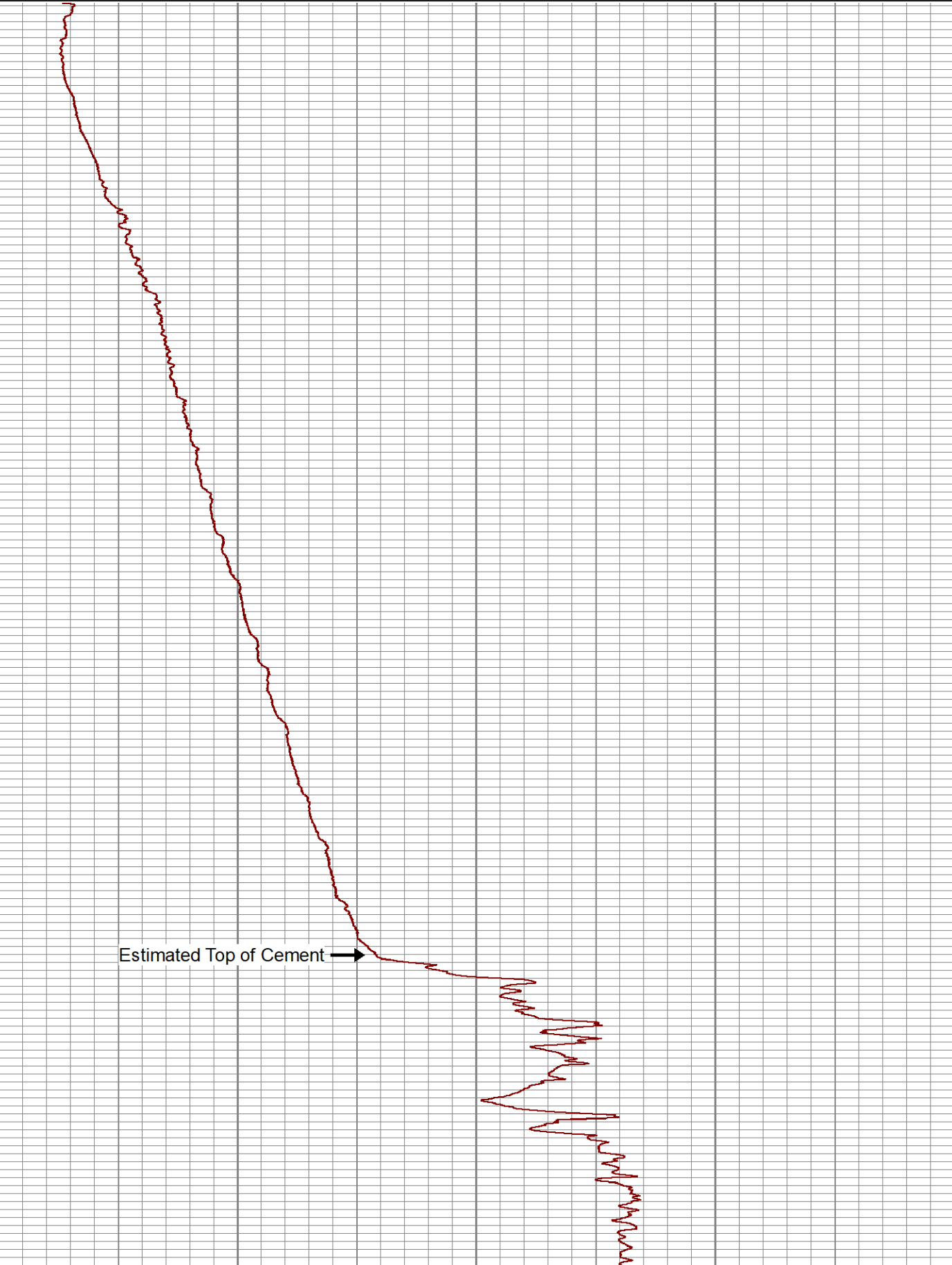
50

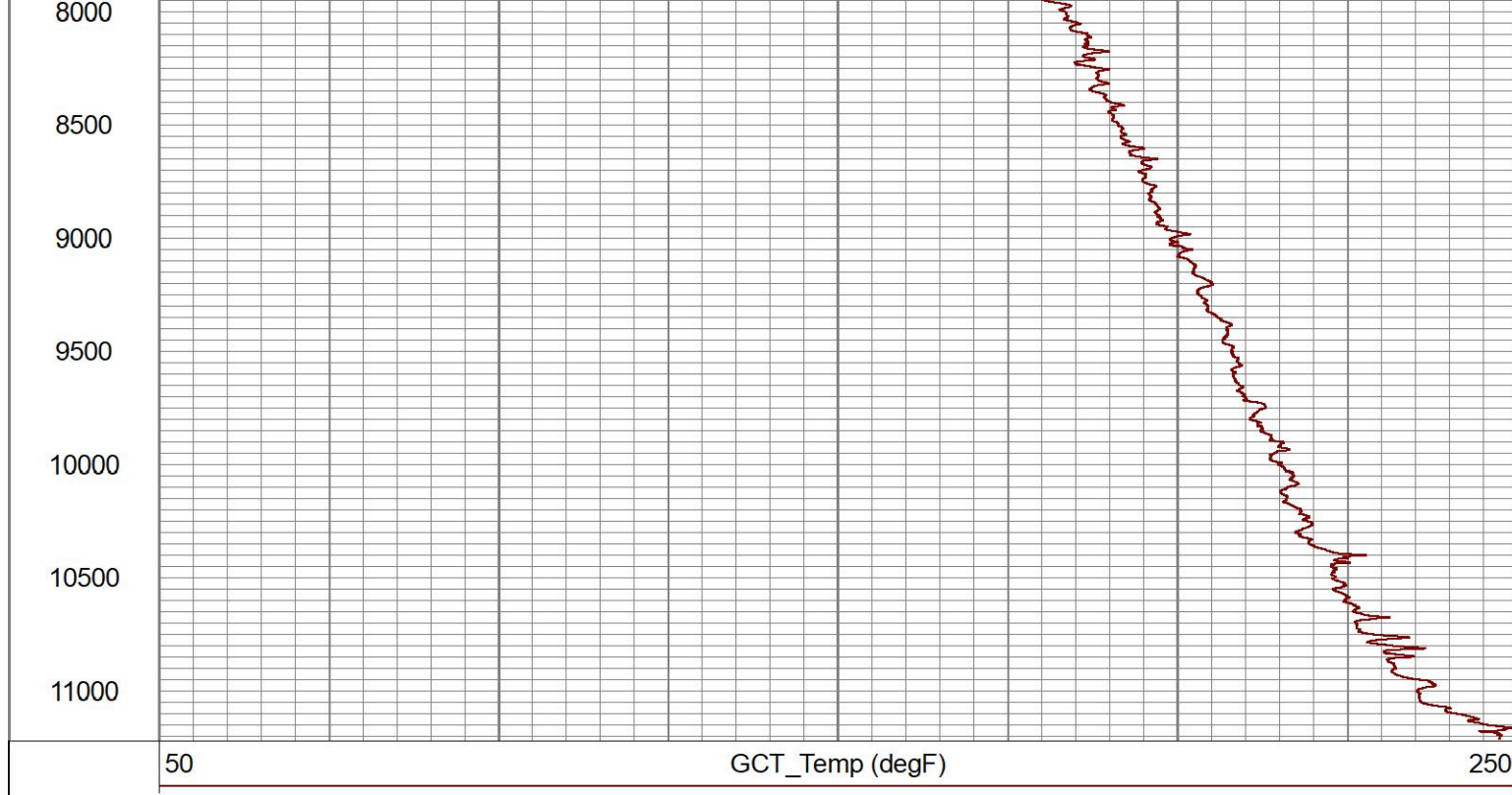
GCT\_Temp (degF)

250

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

Estimated Top of Cement →

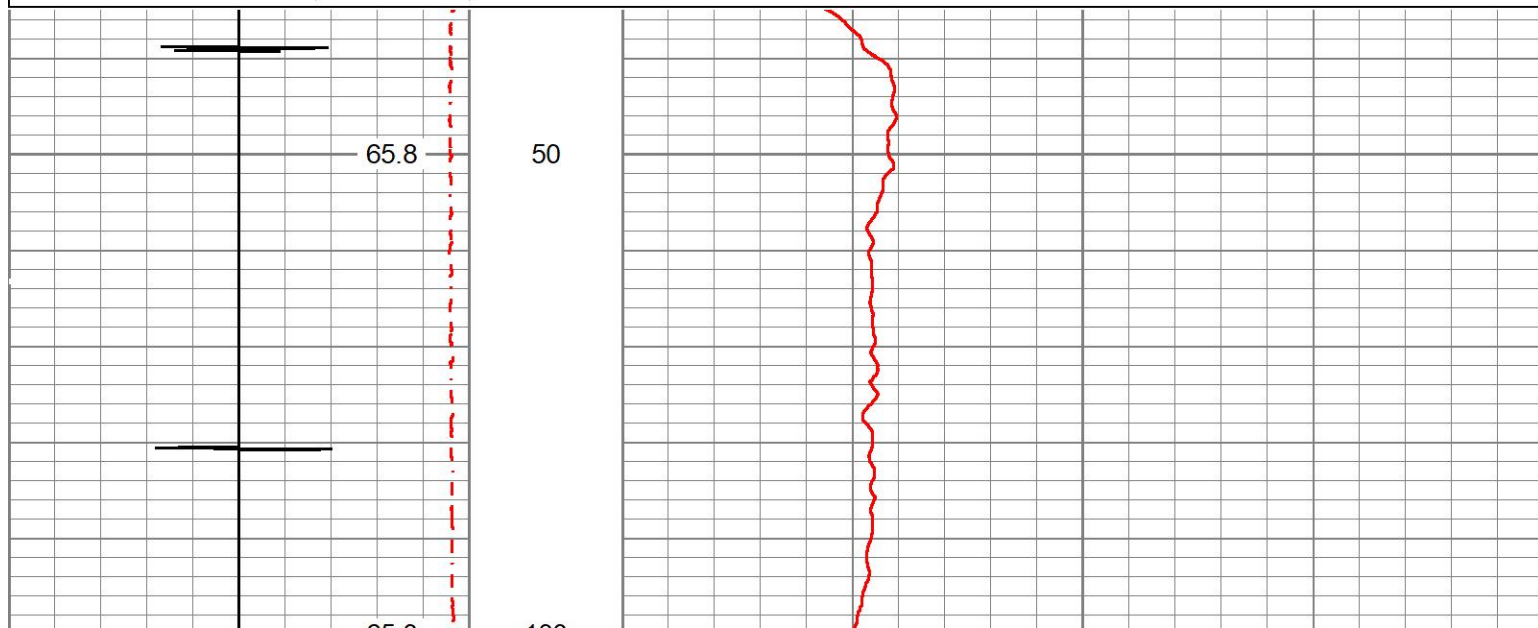


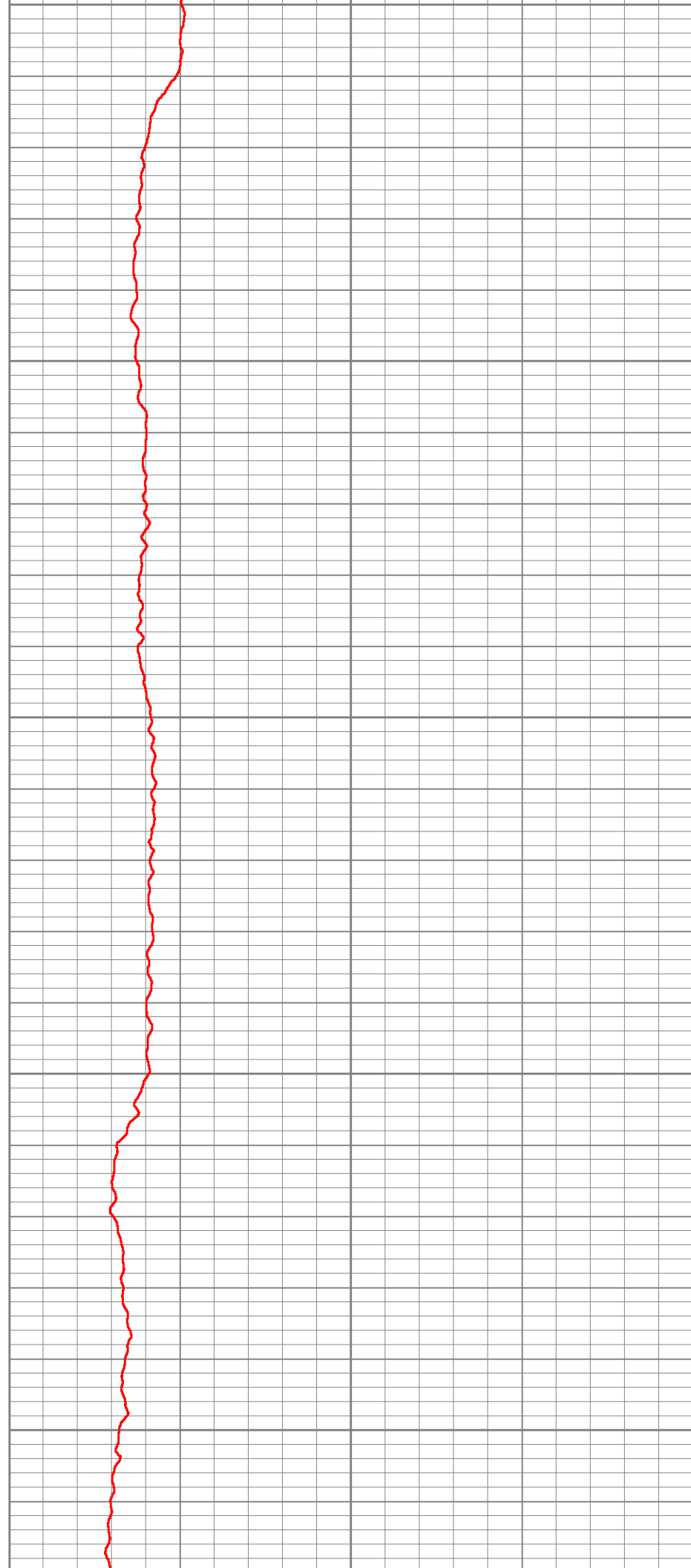
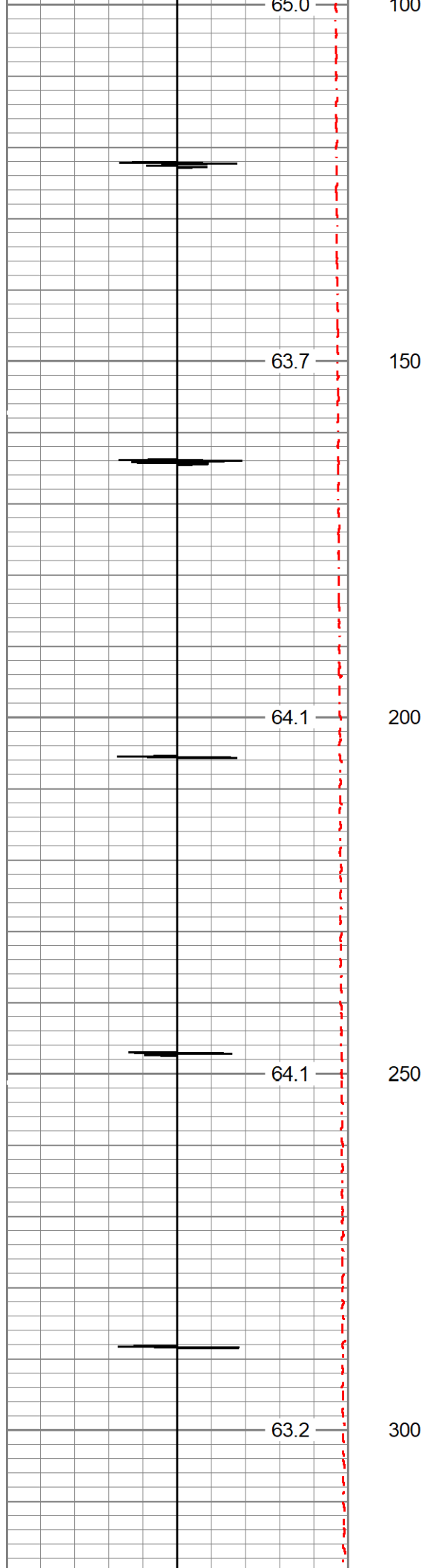


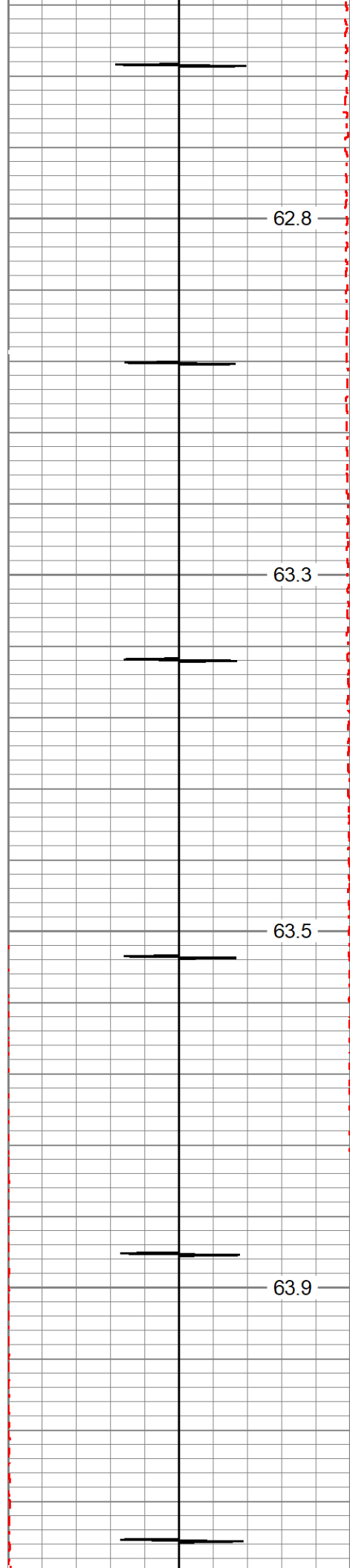
Main Pass 5" = 100'

Database File	tep_federal wmc 312-20_temp_10-7-22.db
Dataset Pathname	main
Presentation Format	gct_tmp
Dataset Creation	Fri Oct 07 18:02:13 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)			





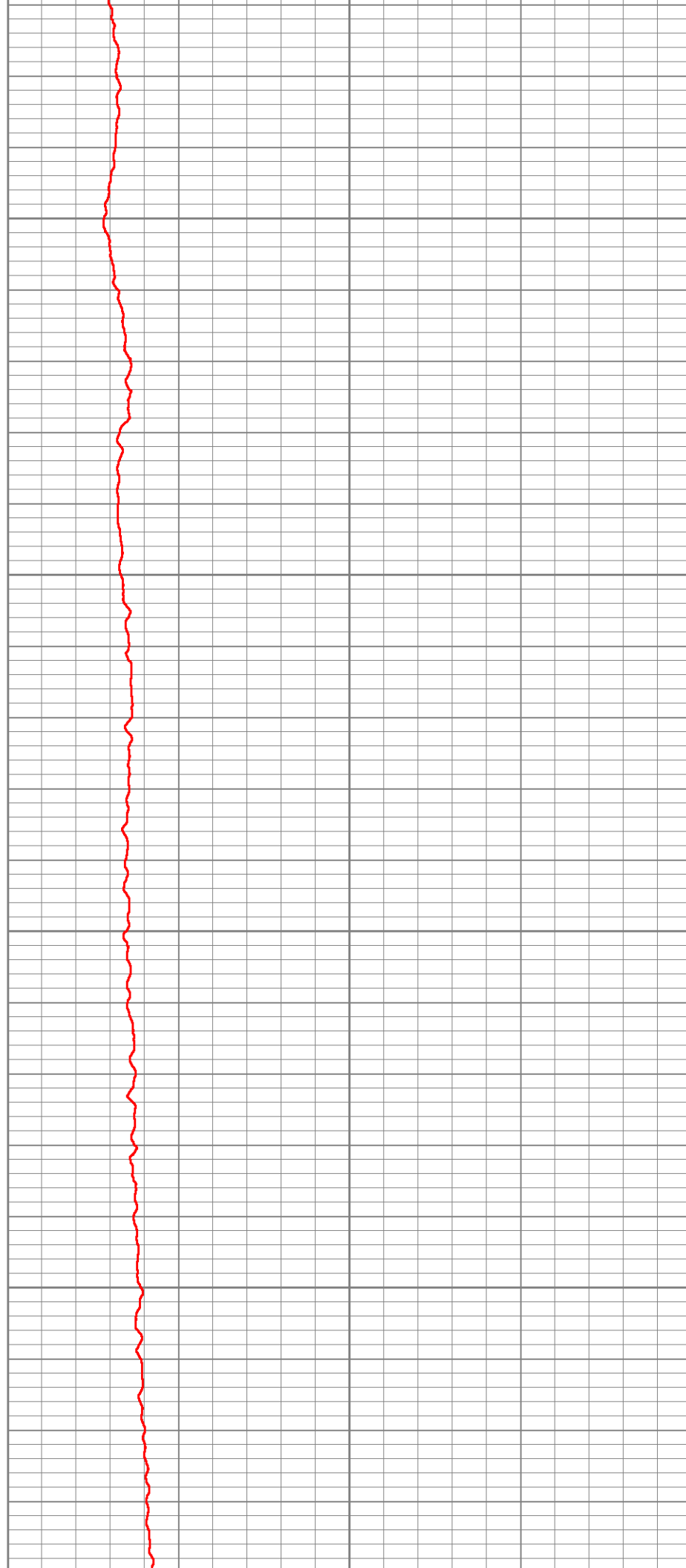


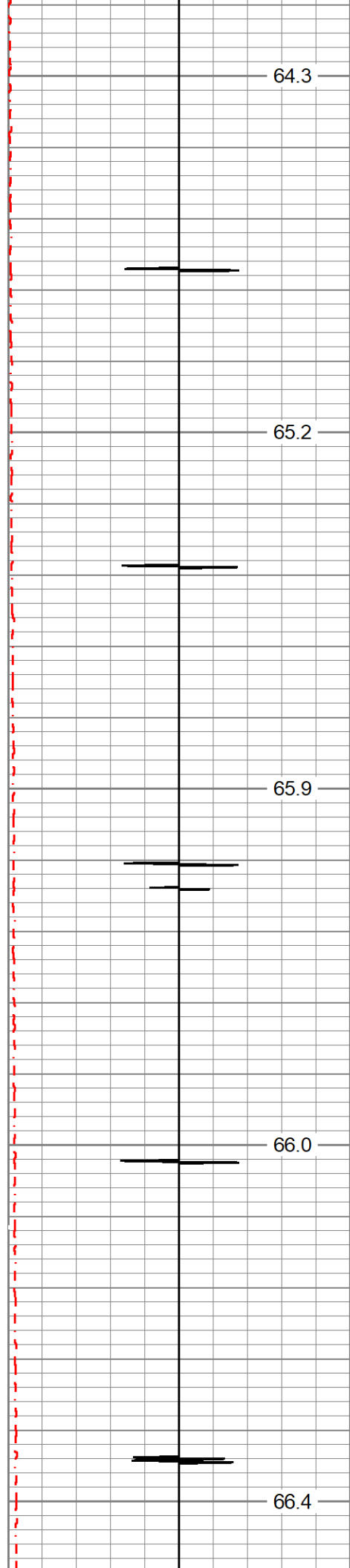
350

400

450

500





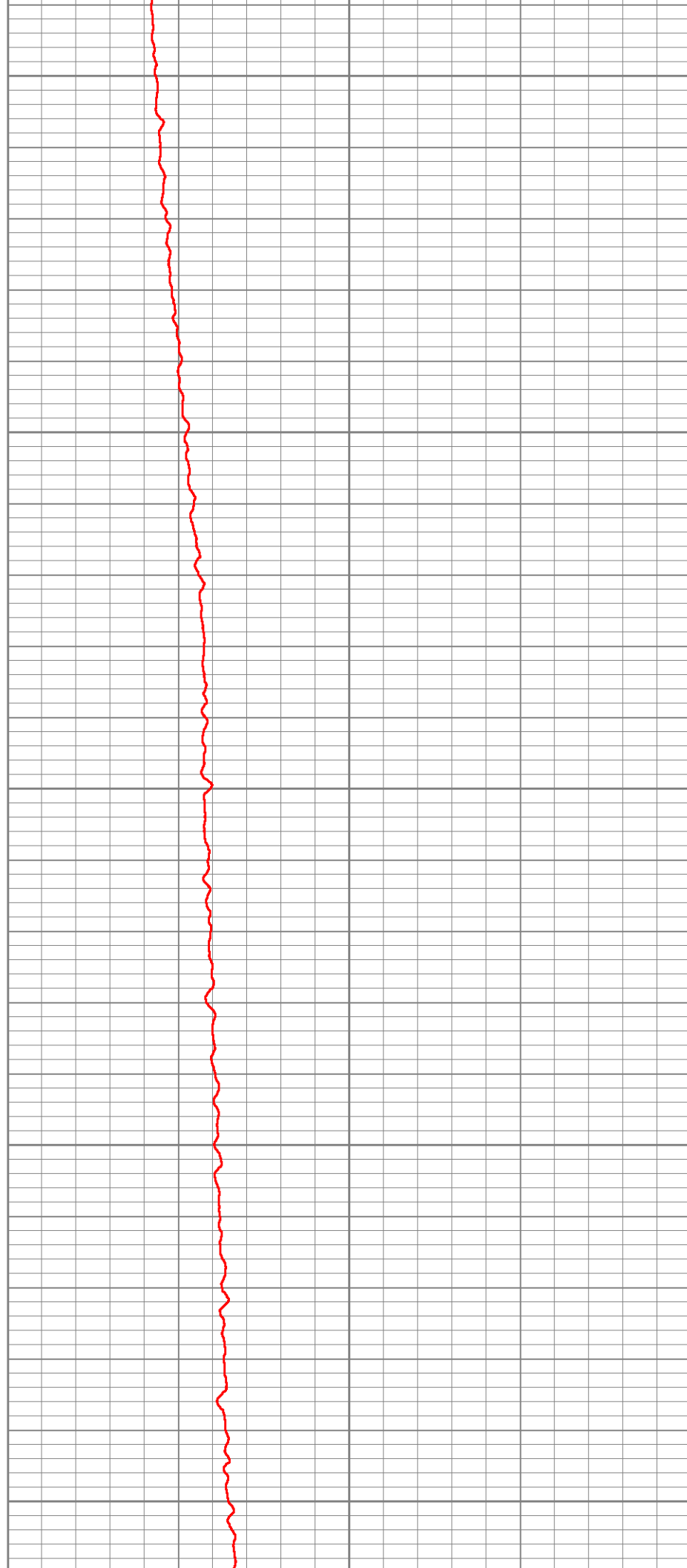
550

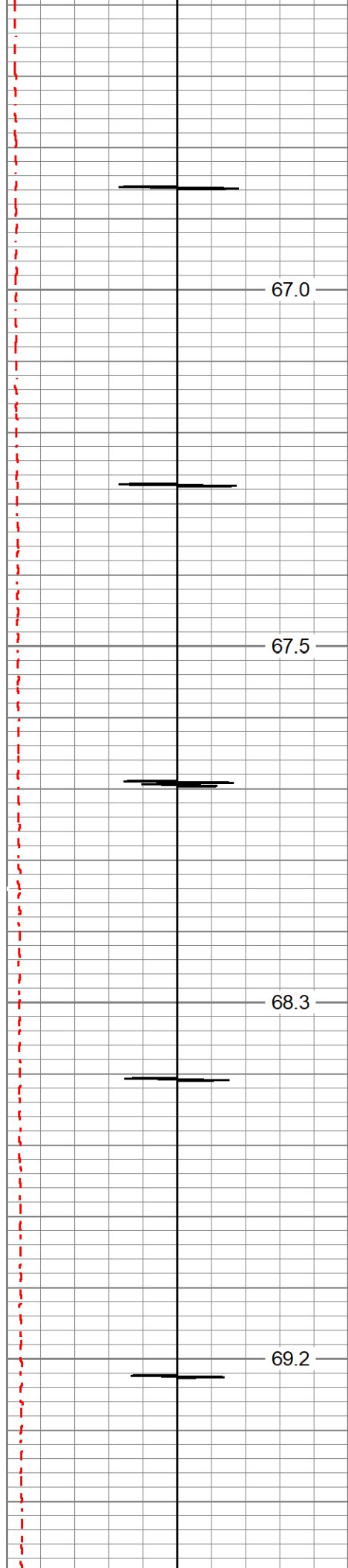
600

650

700

750





67.0

67.5

68.3

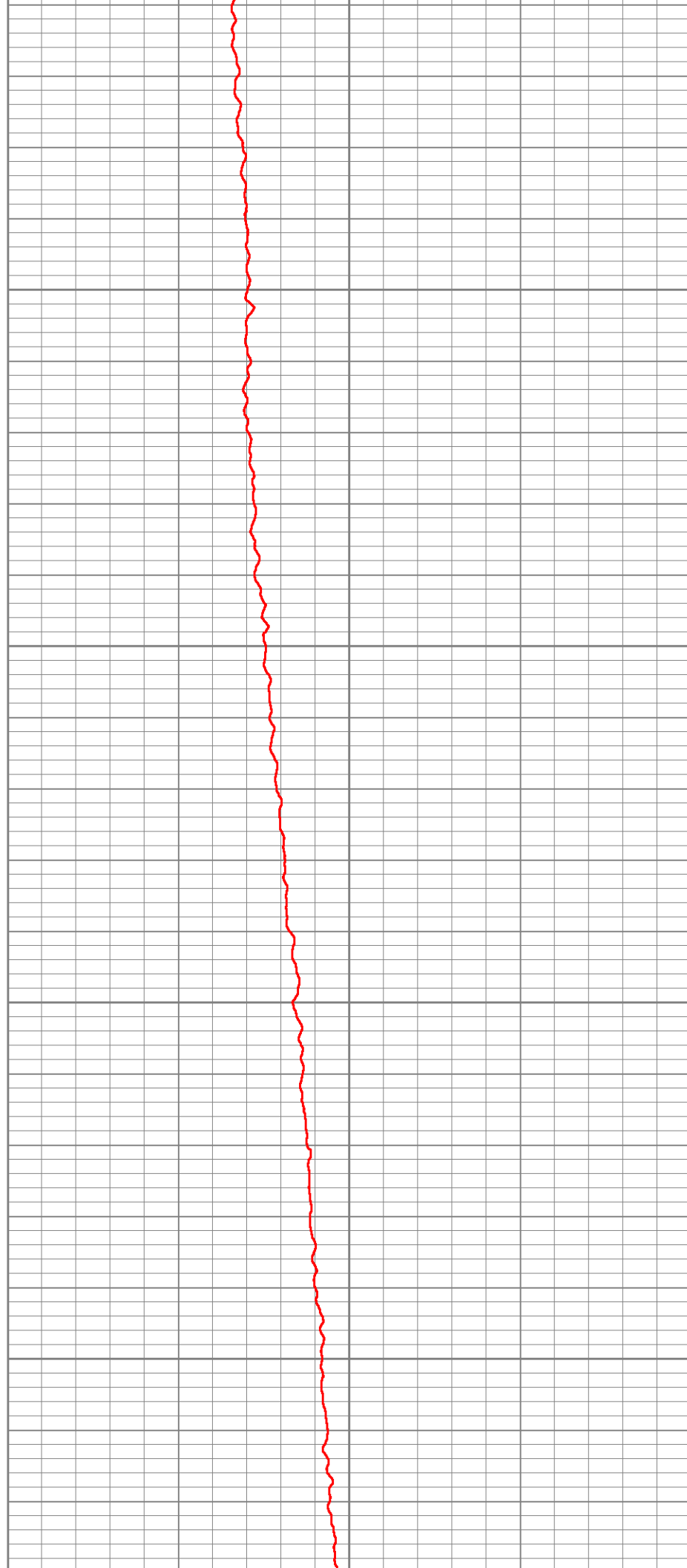
69.2

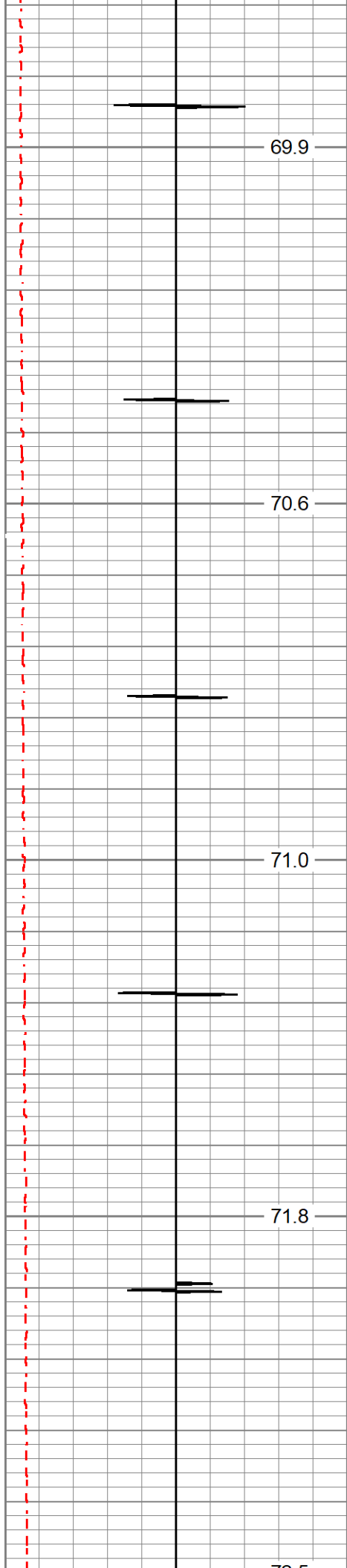
800

850

900

950





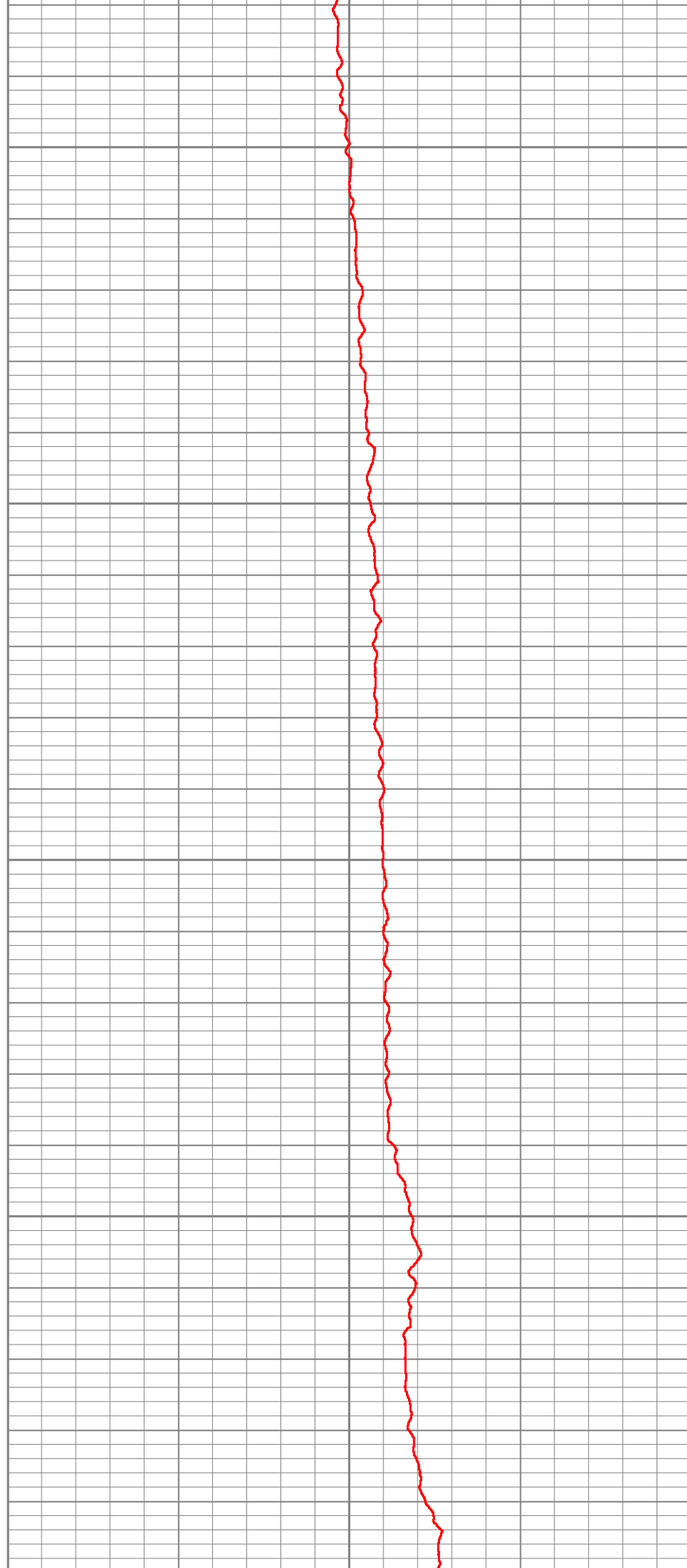
1000

1050

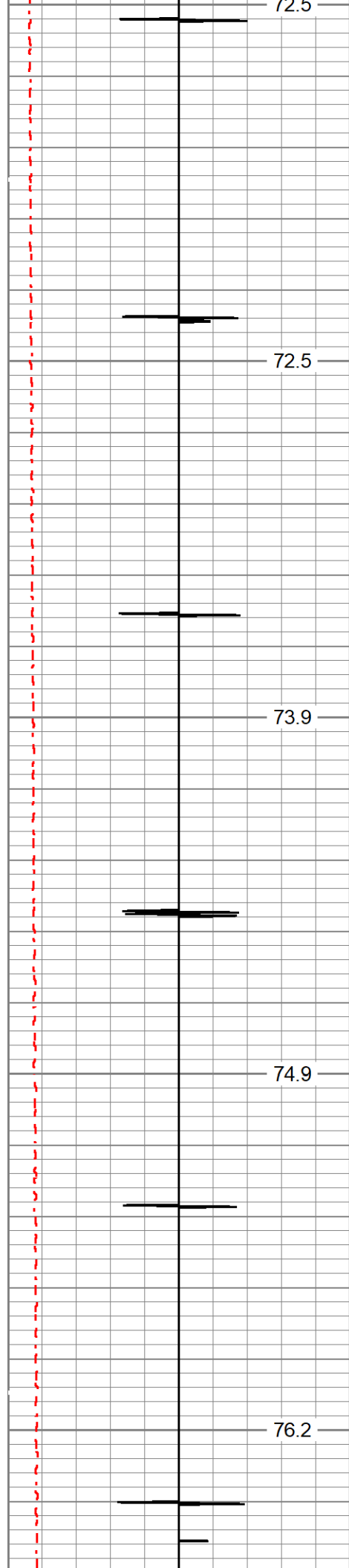
1100

1150

1200







1200

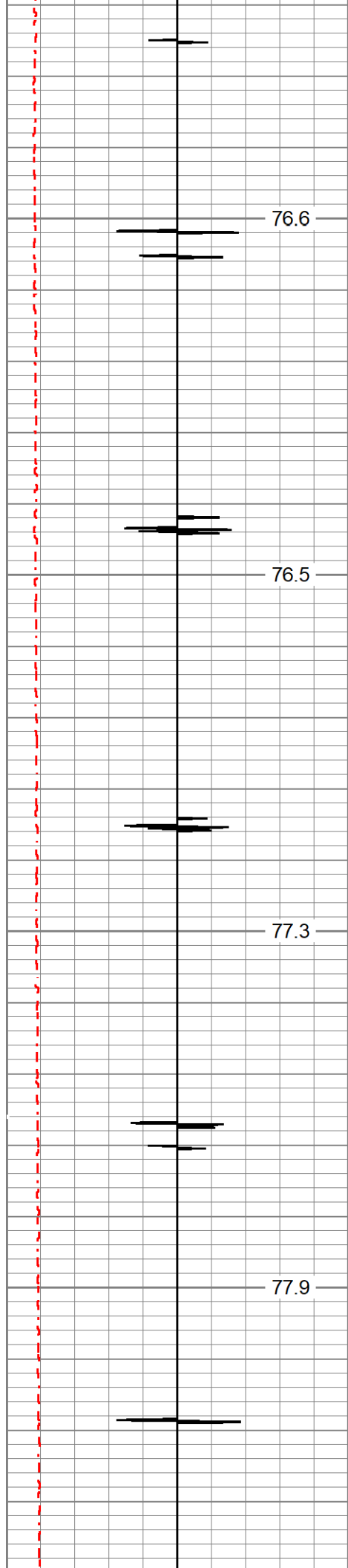
1250

1300

1350

1400



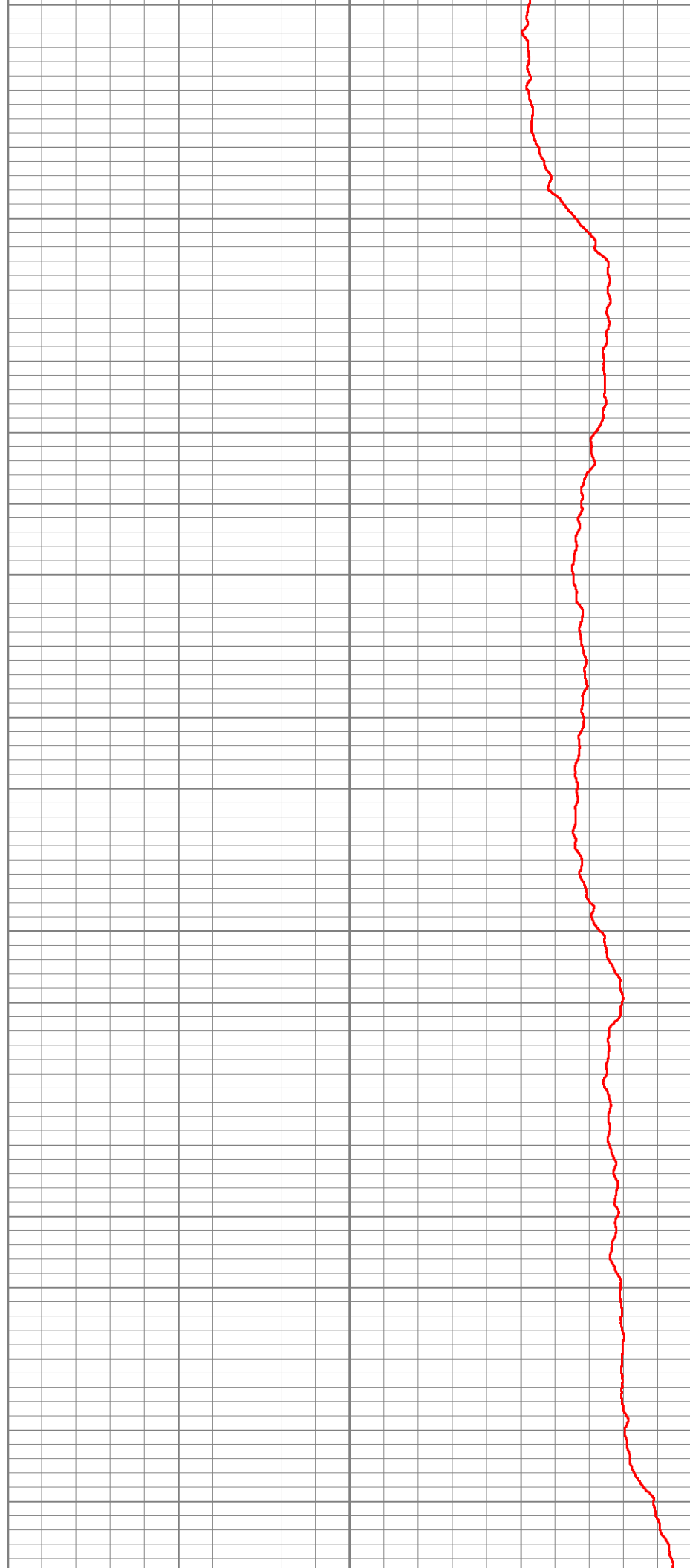


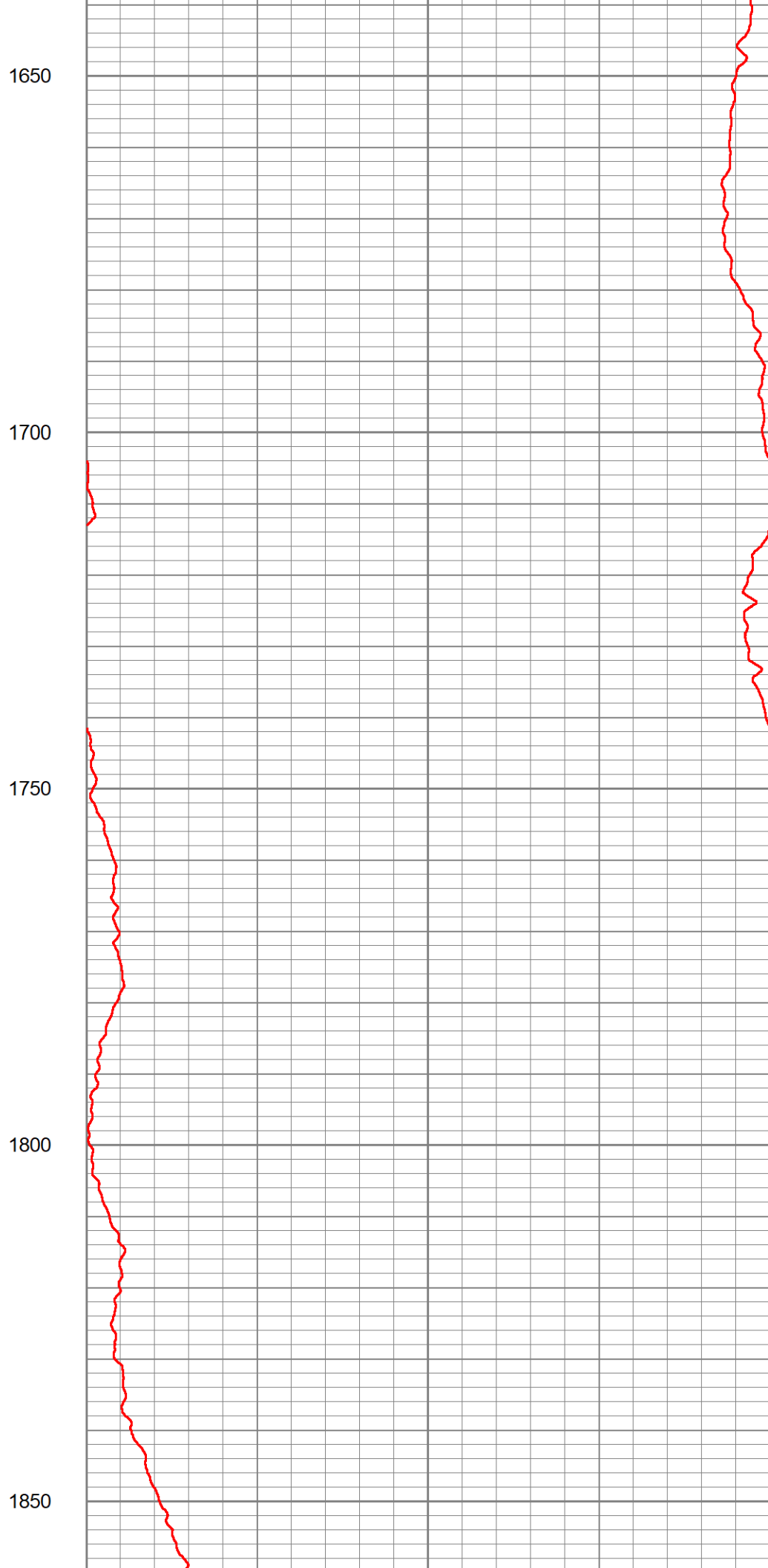
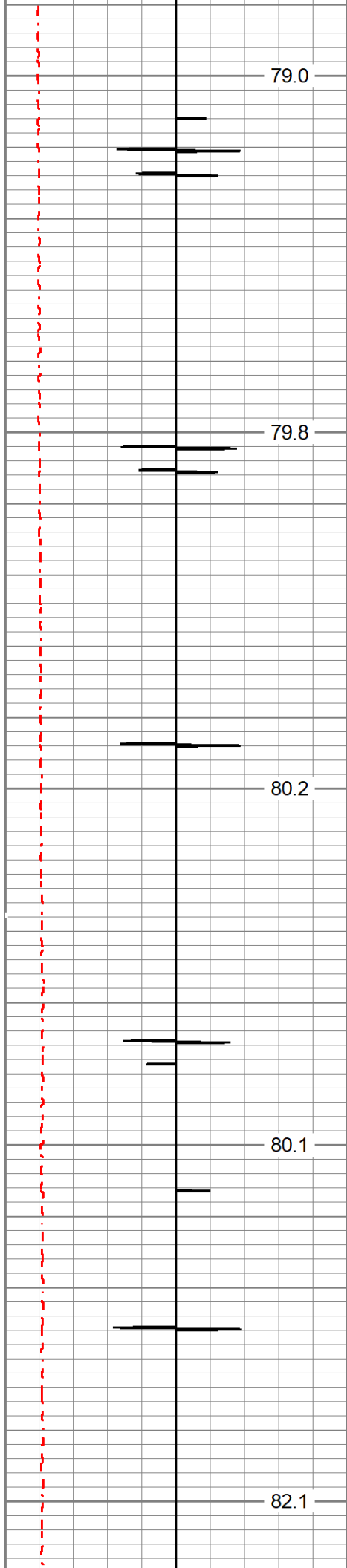
1450

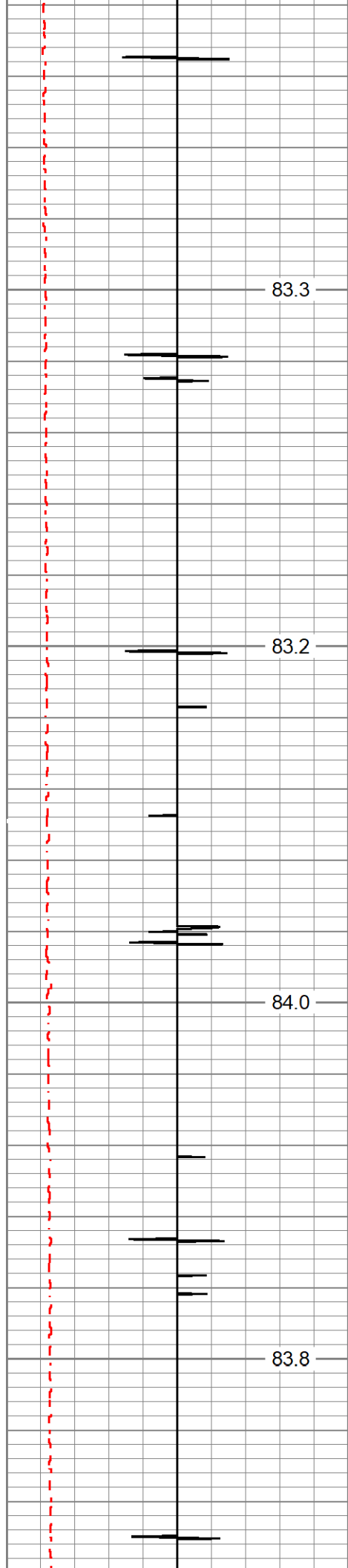
1500

1550

1600





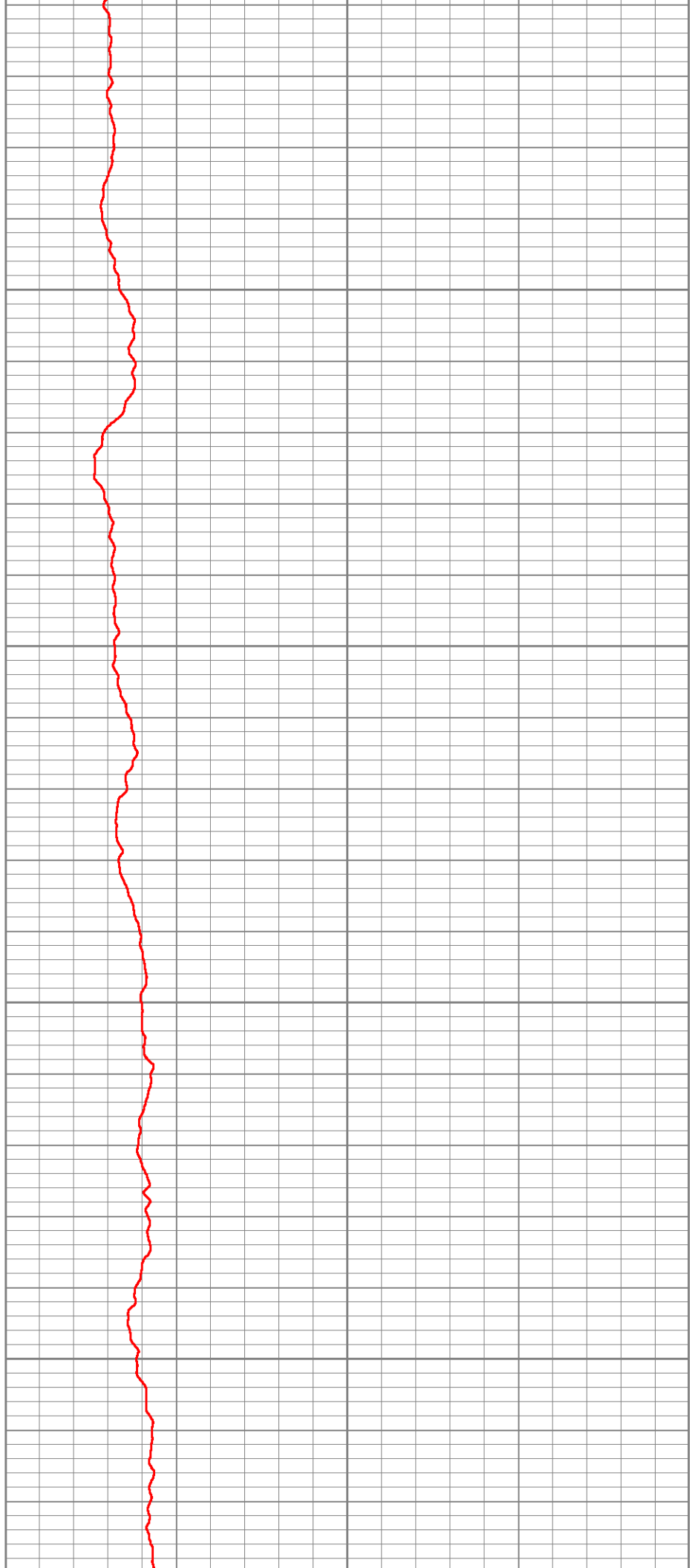


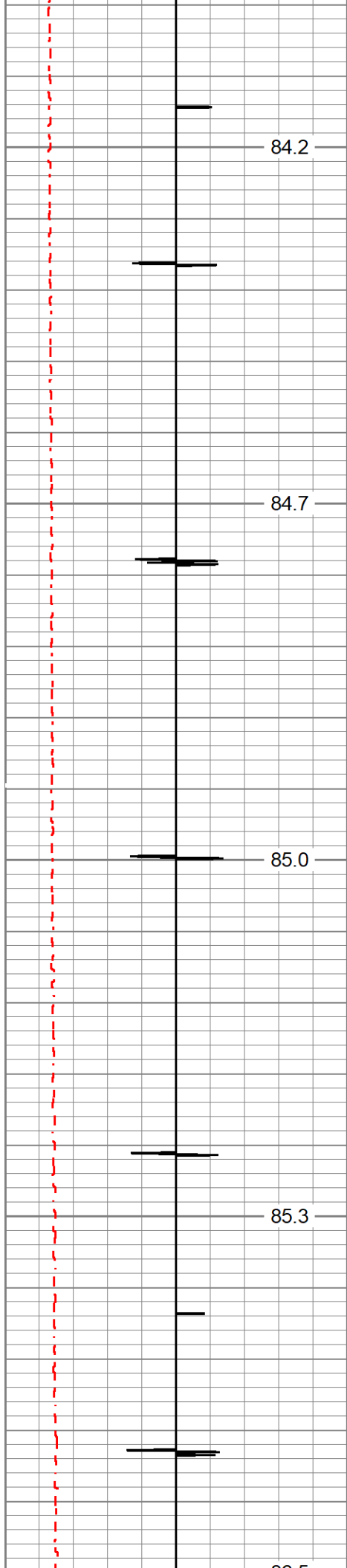
1900

1950

2000

2050





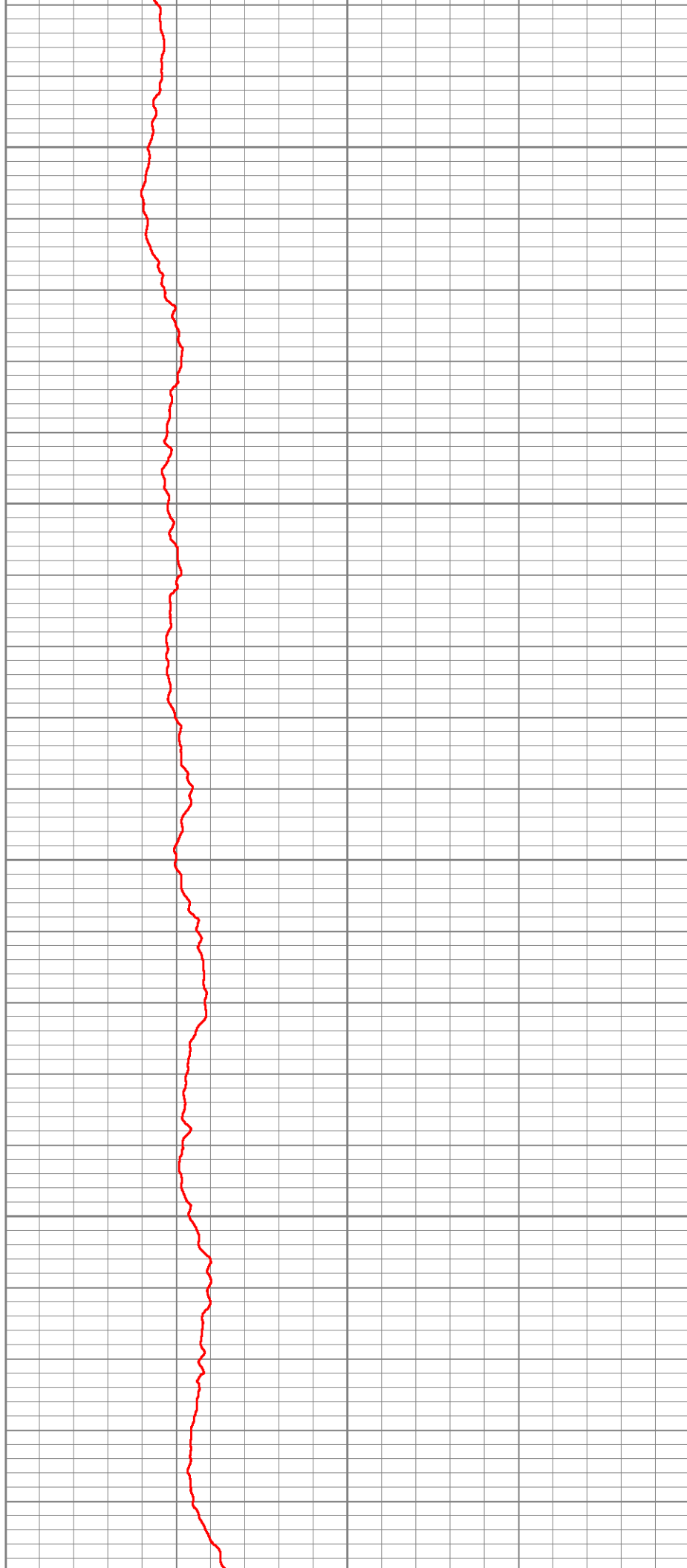
2100

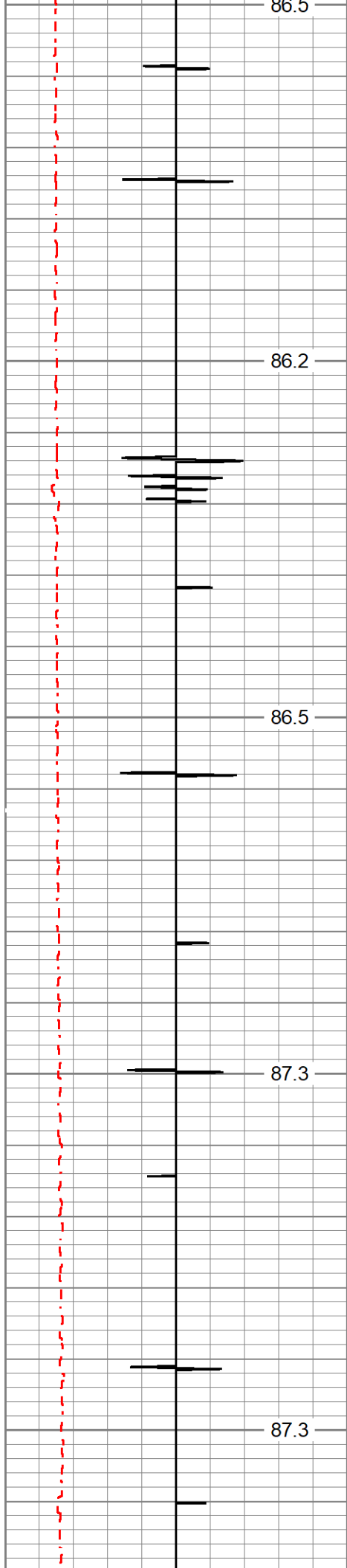
2150

2200

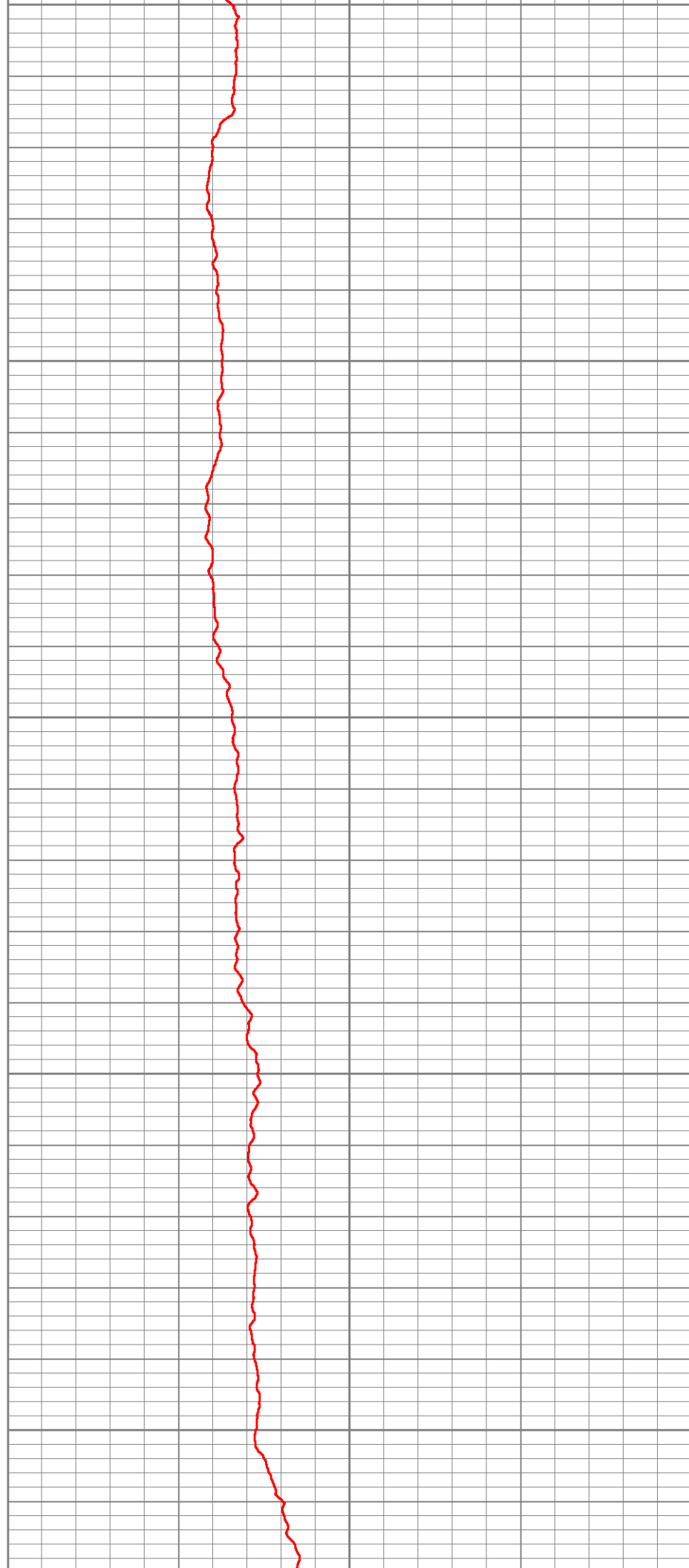
2250

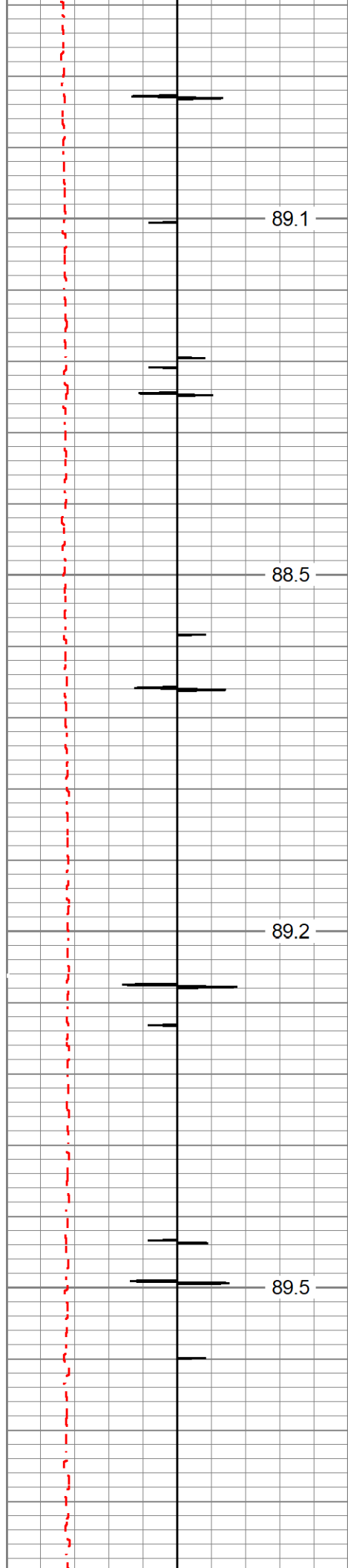
2300





2300  
2350  
2400  
2450  
2500





89.1

88.5

89.2

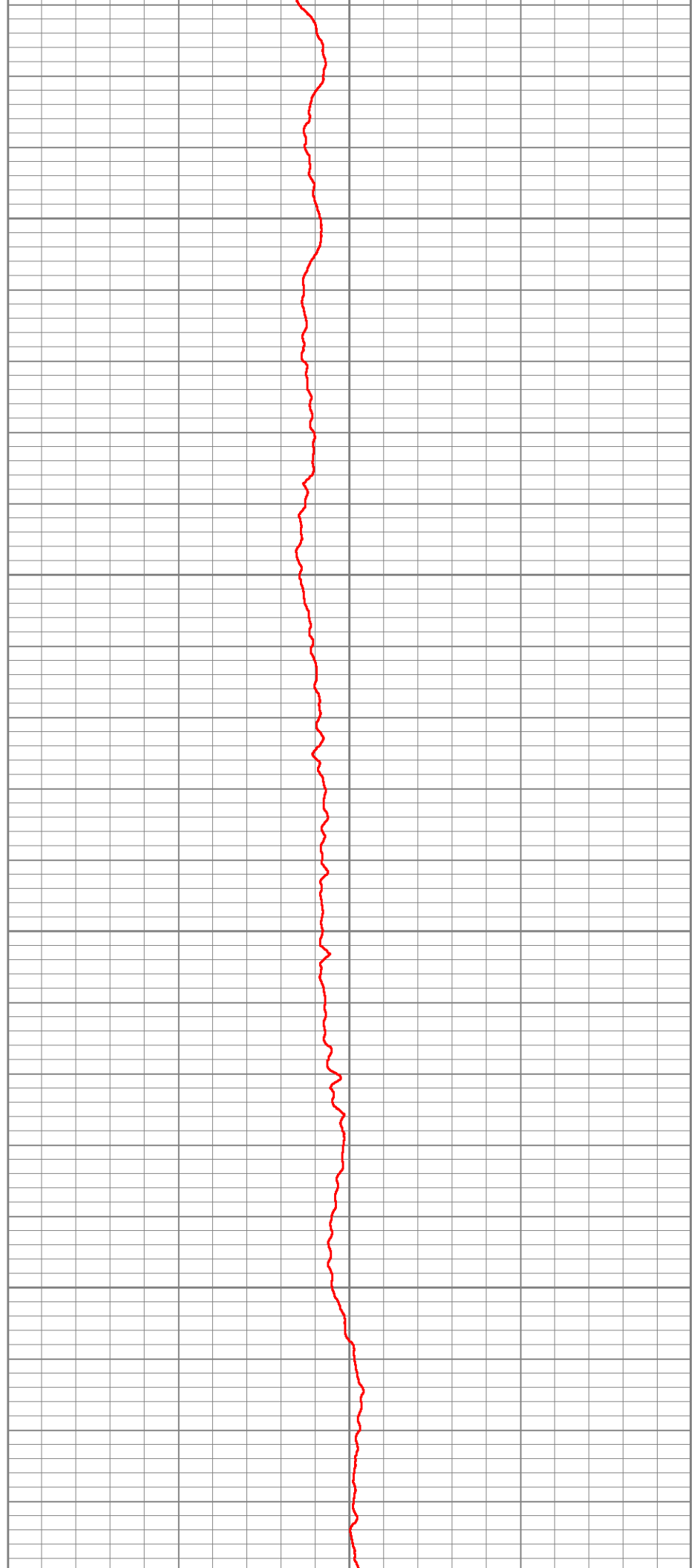
89.5

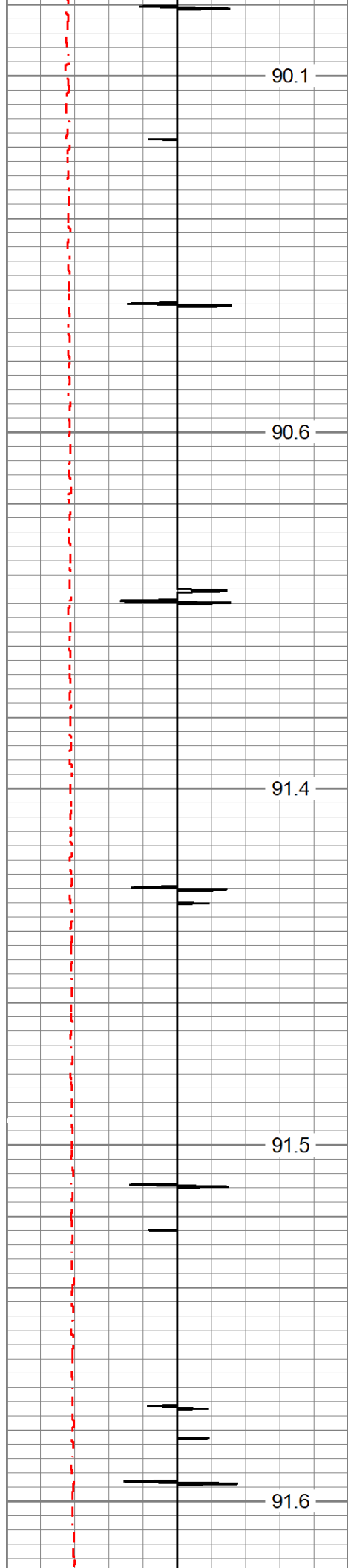
2550

2600

2650

2700





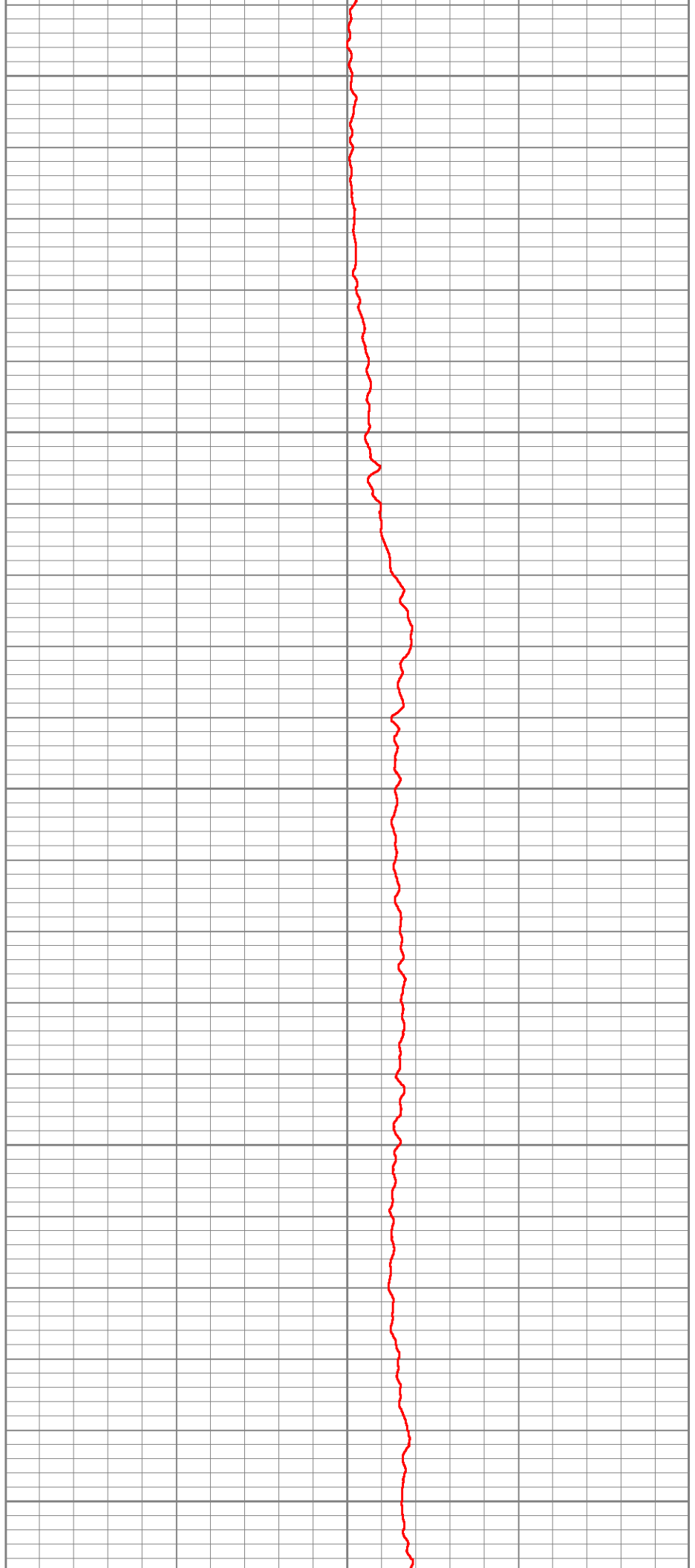
2750

2800

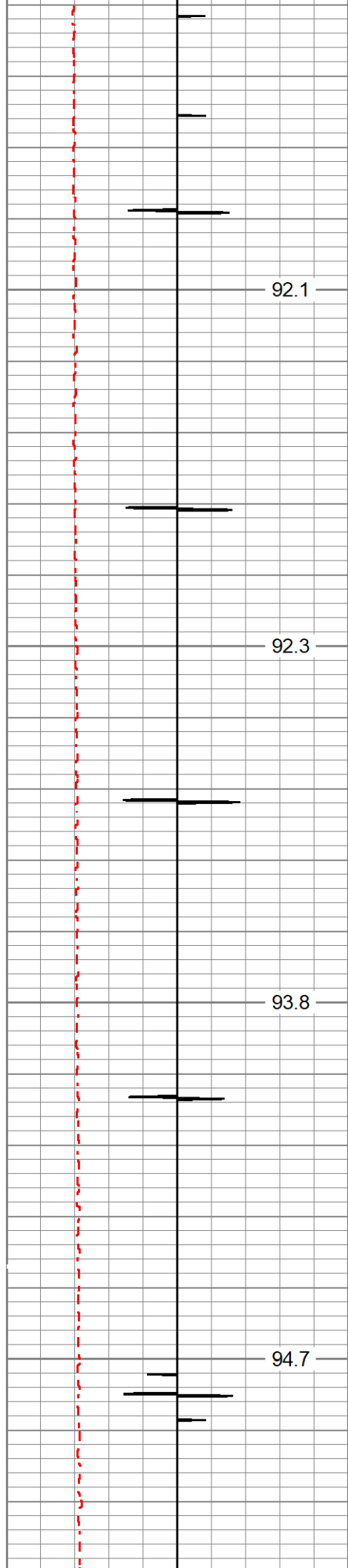
2850

2900

2950





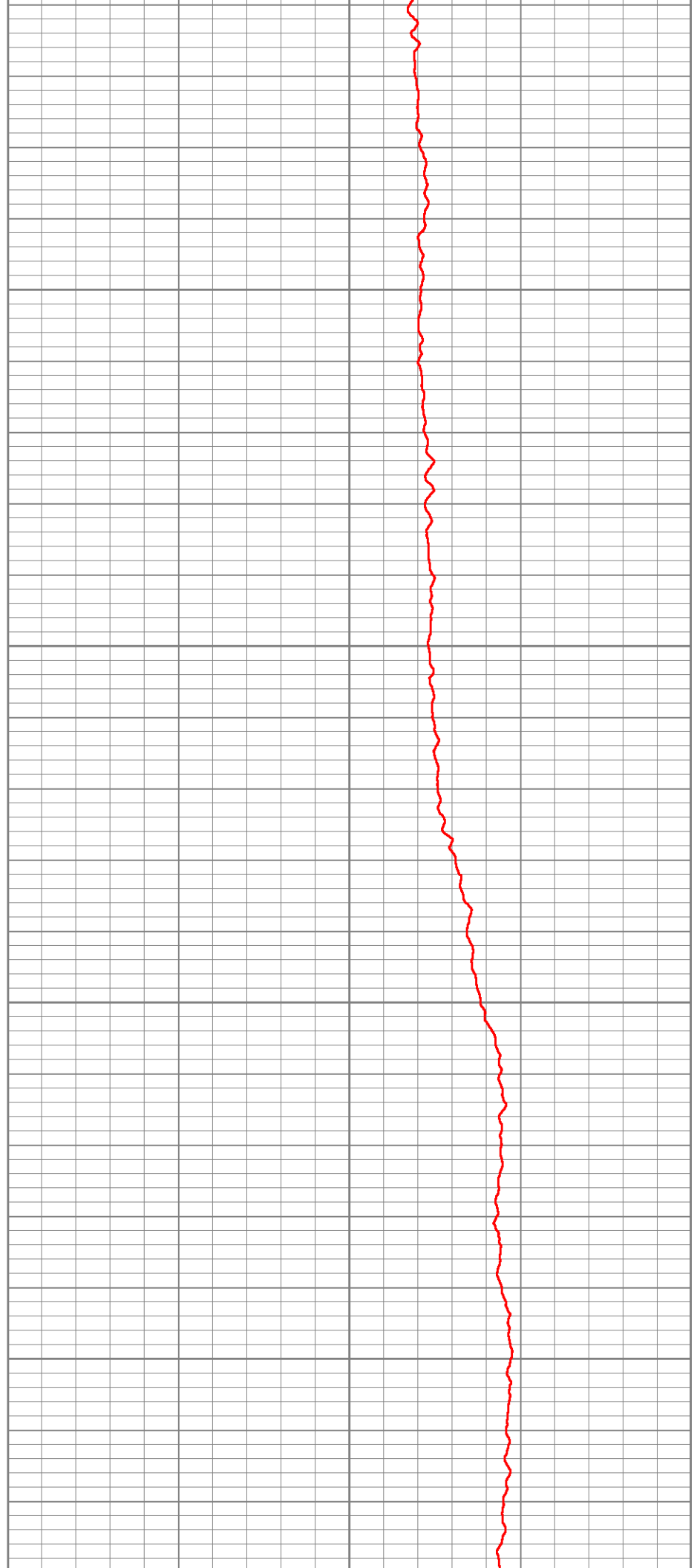


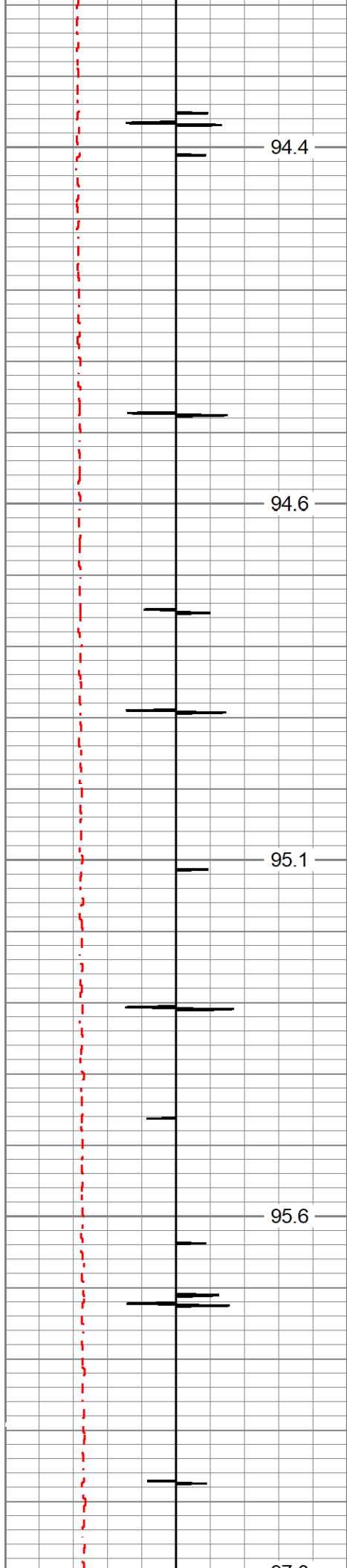
3000

3050

3100

3150





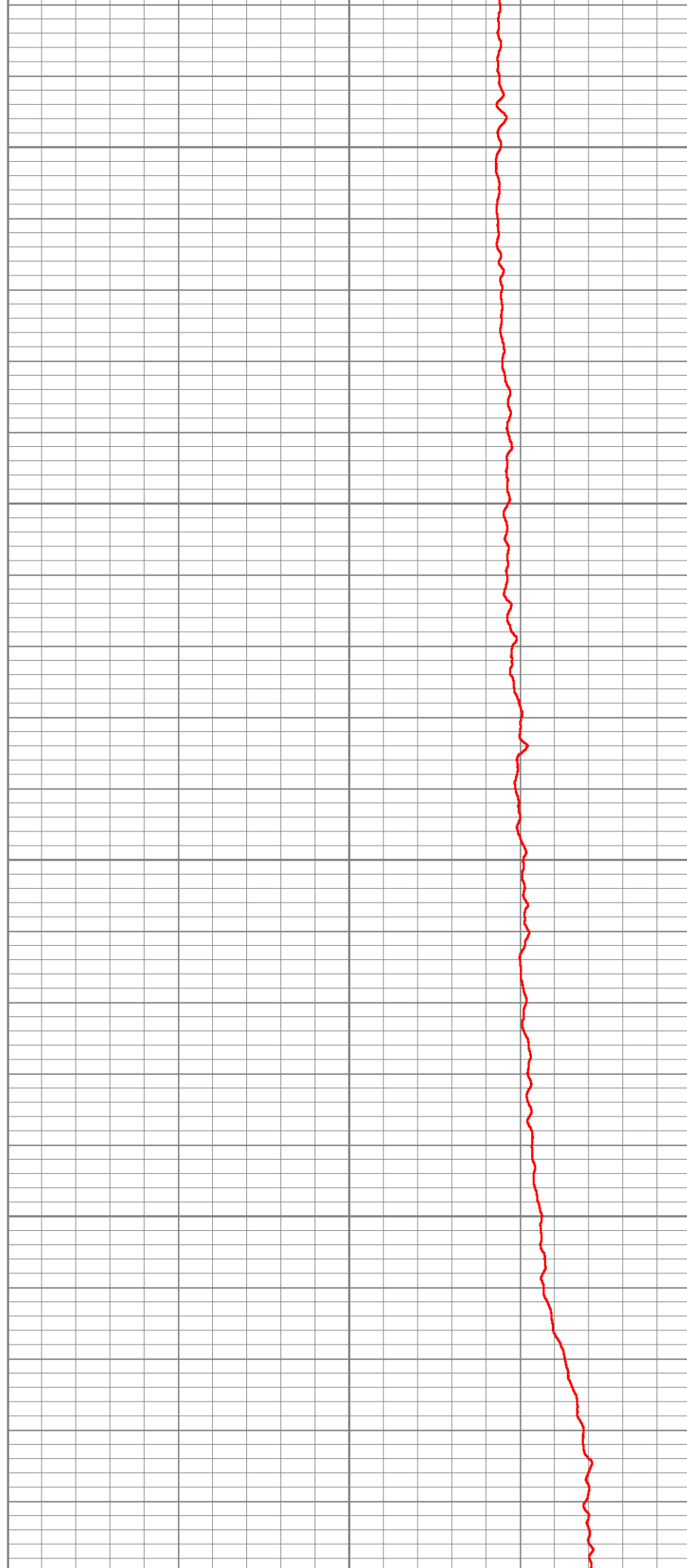
3200

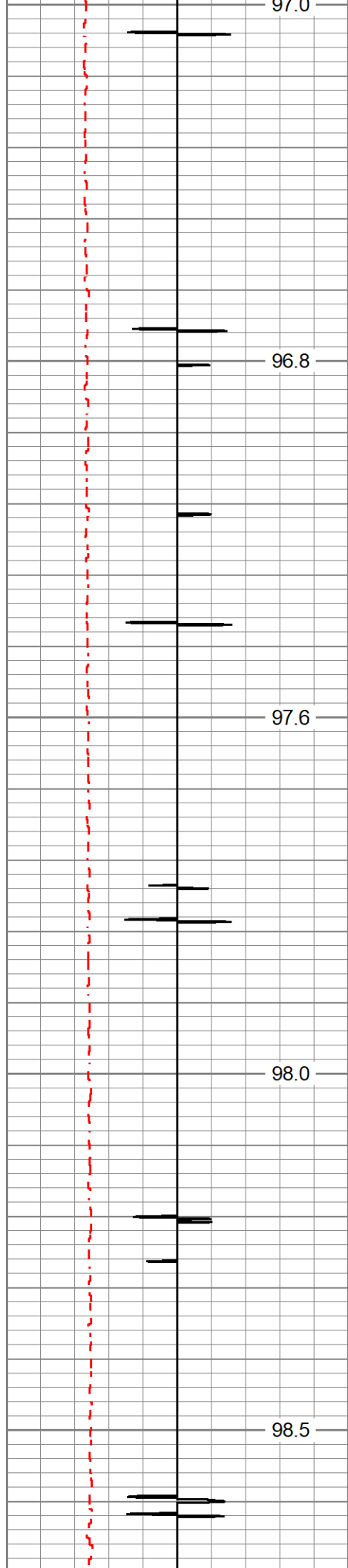
3250

3300

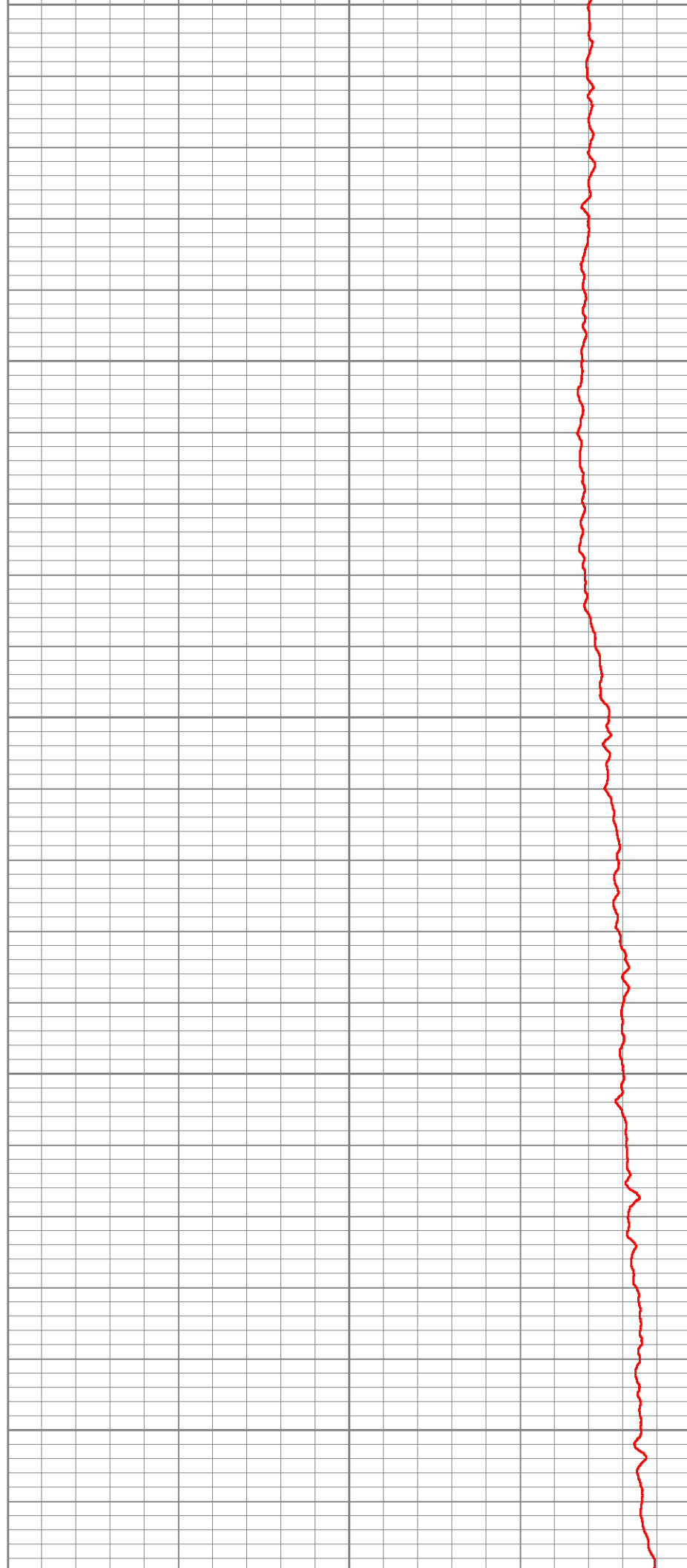
3350

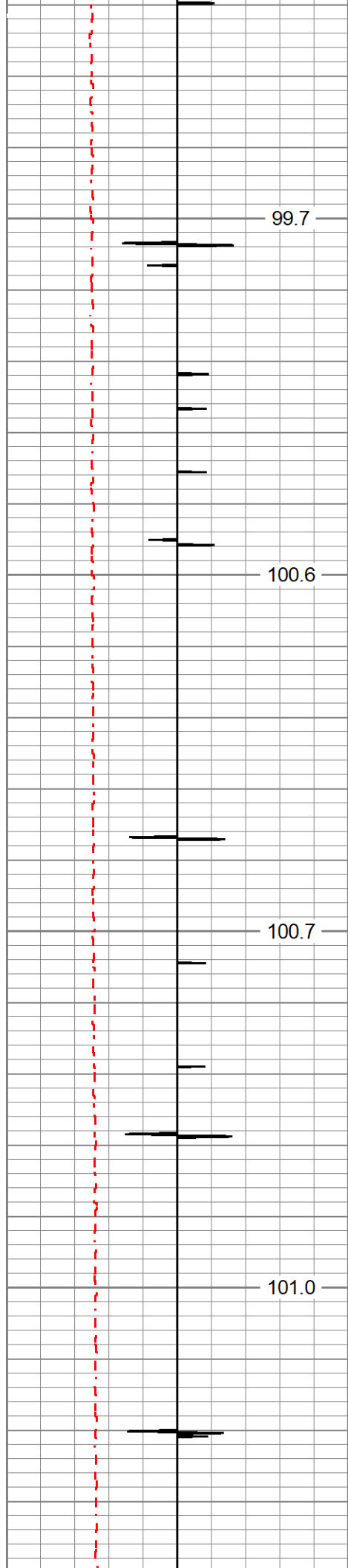
3400





3400  
3450  
3500  
3550  
3600



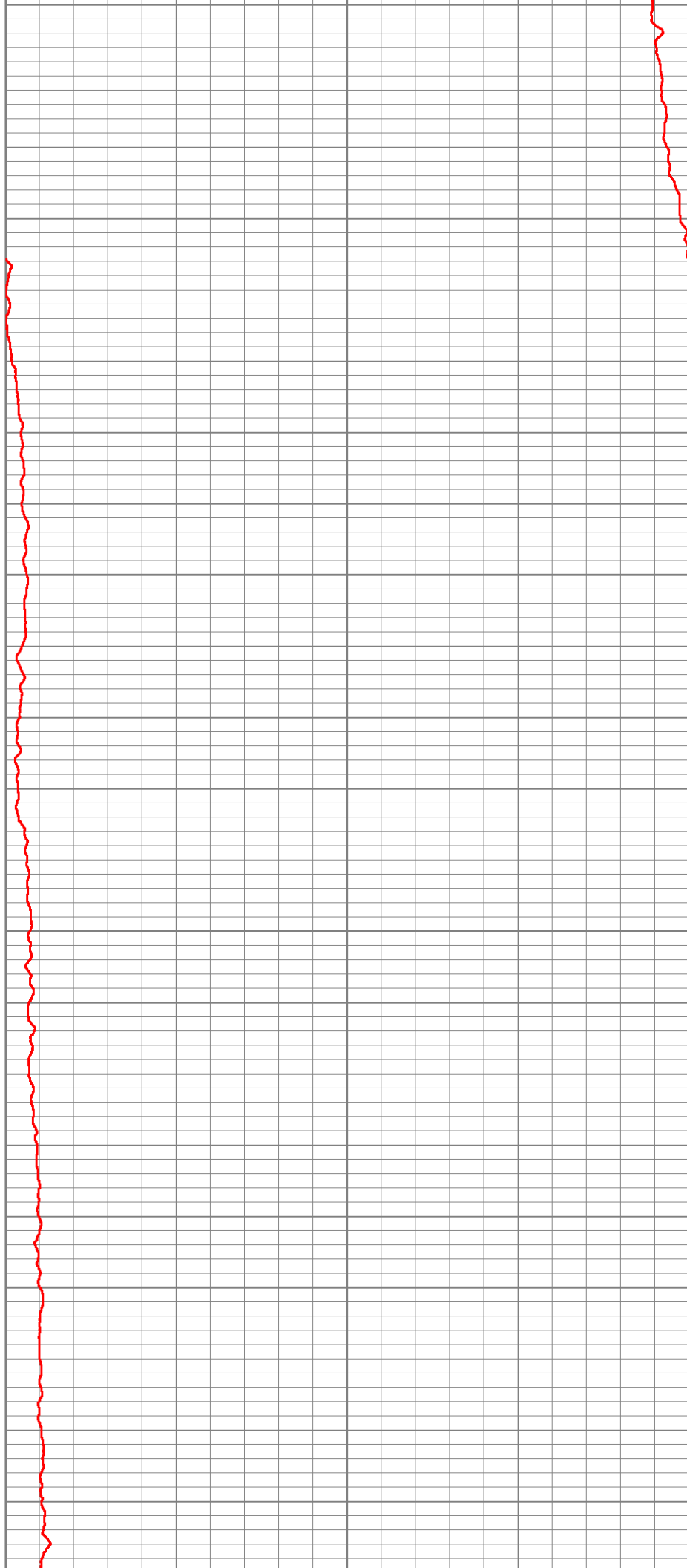


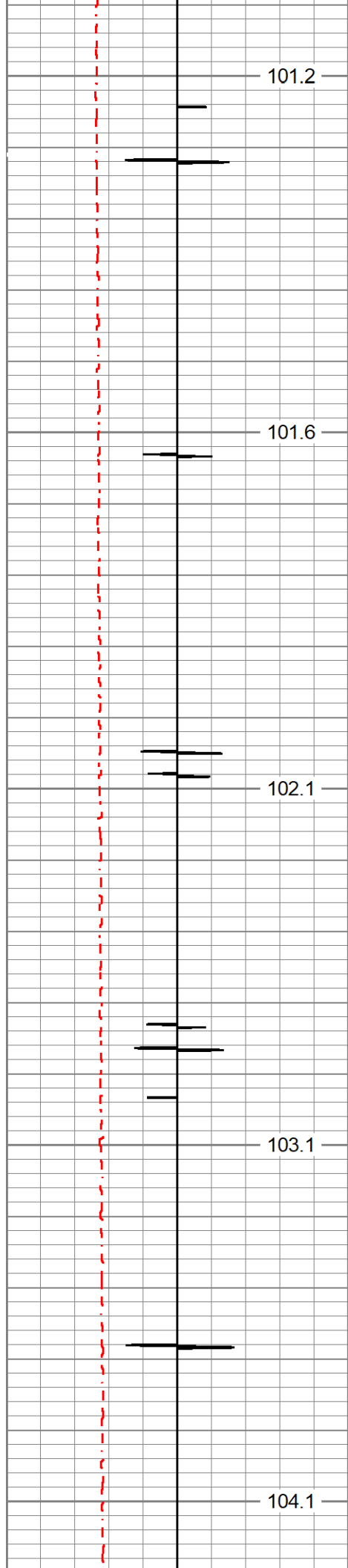
3650

3700

3750

3800





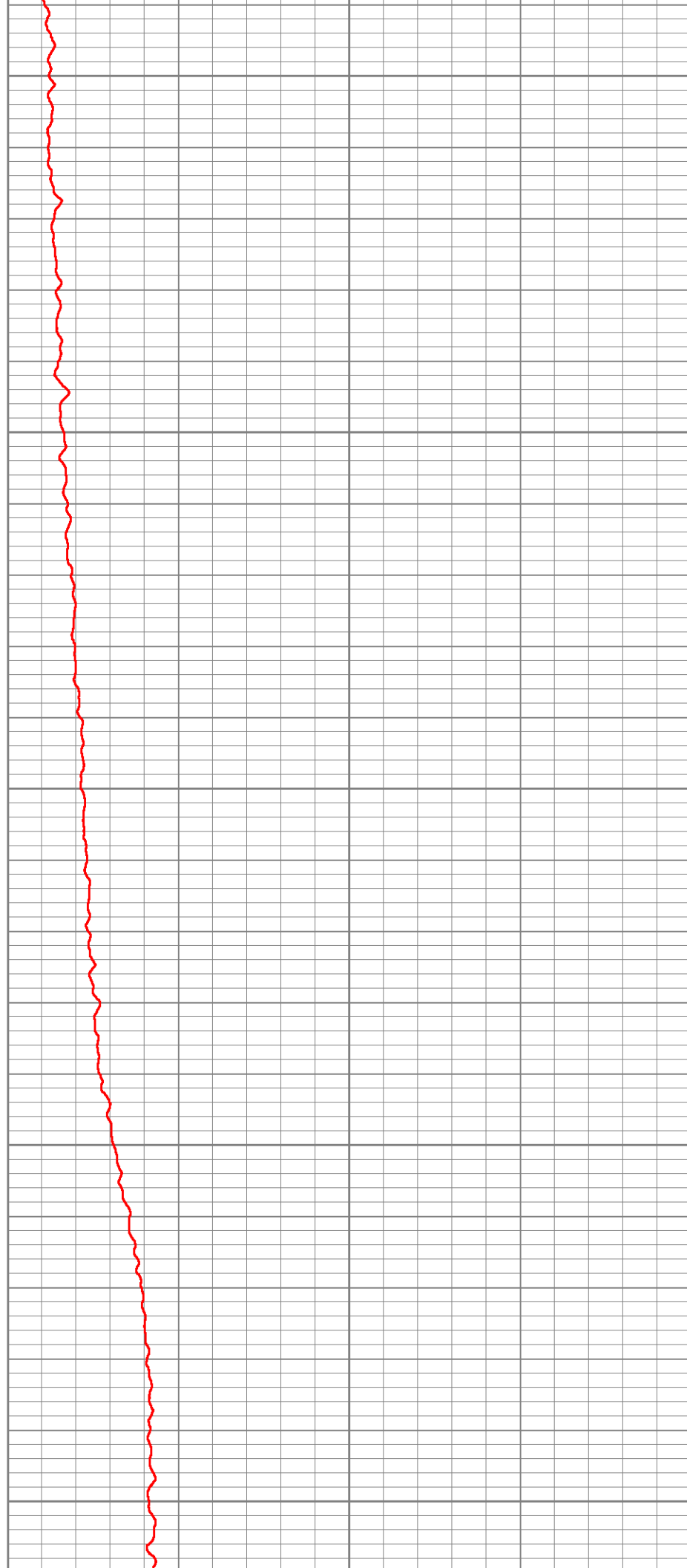
3850

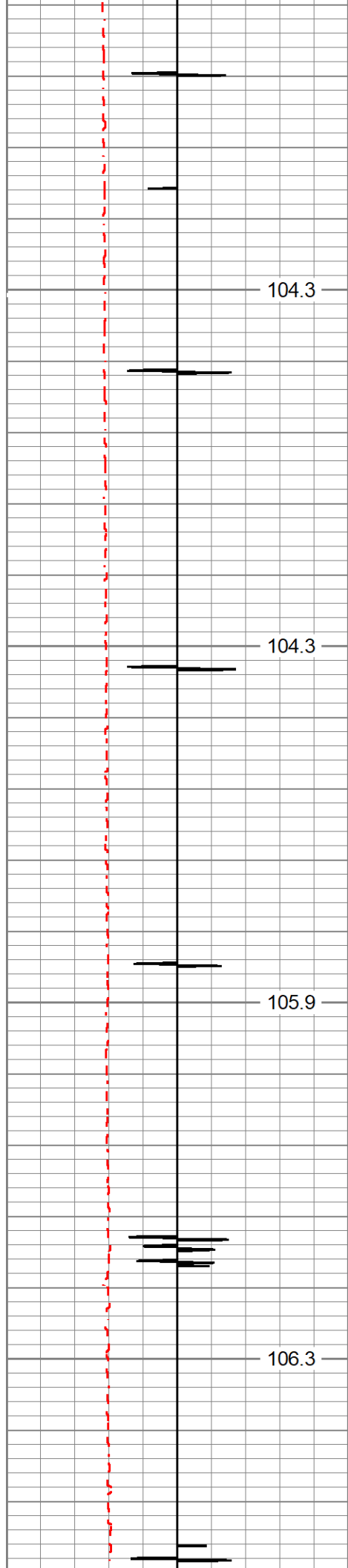
3900

3950

4000

4050



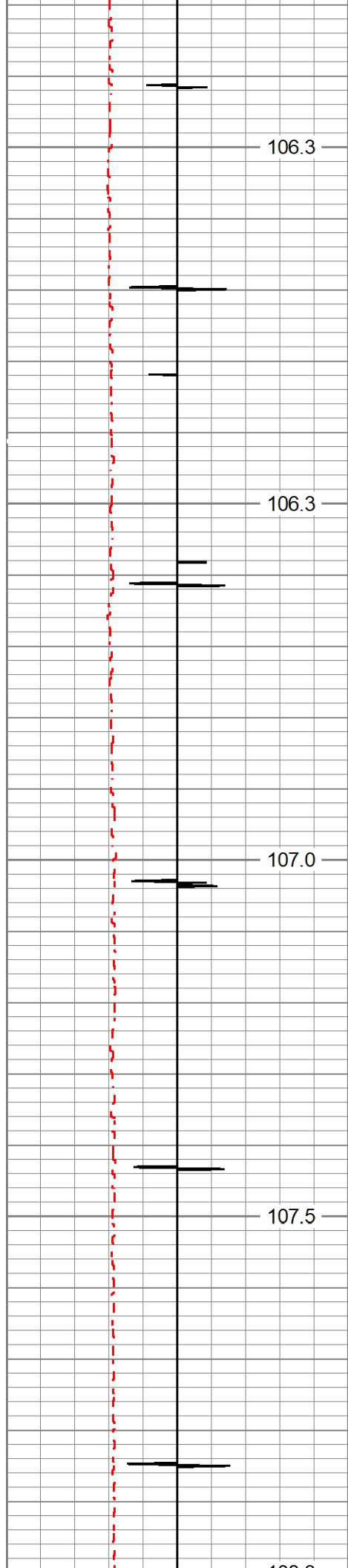


4100

4150

4200

4250



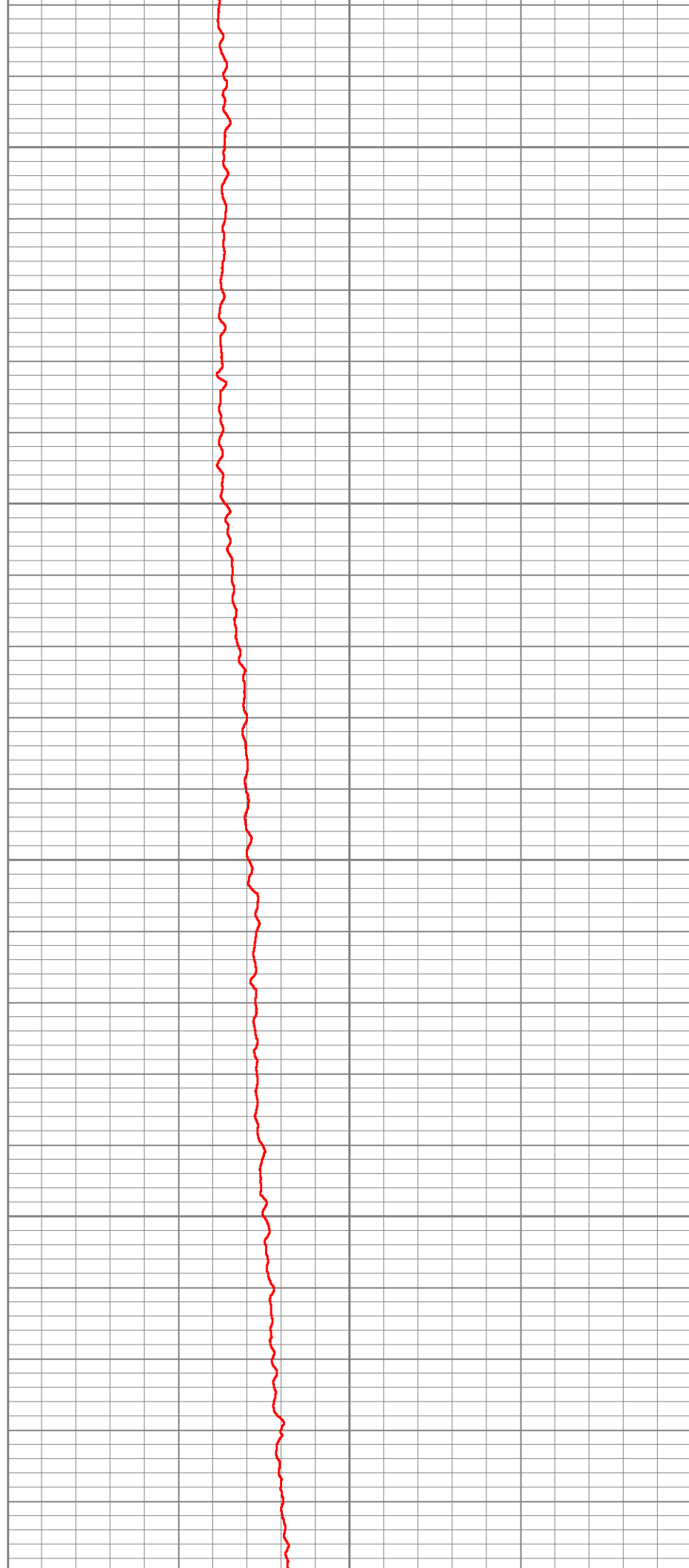
4300

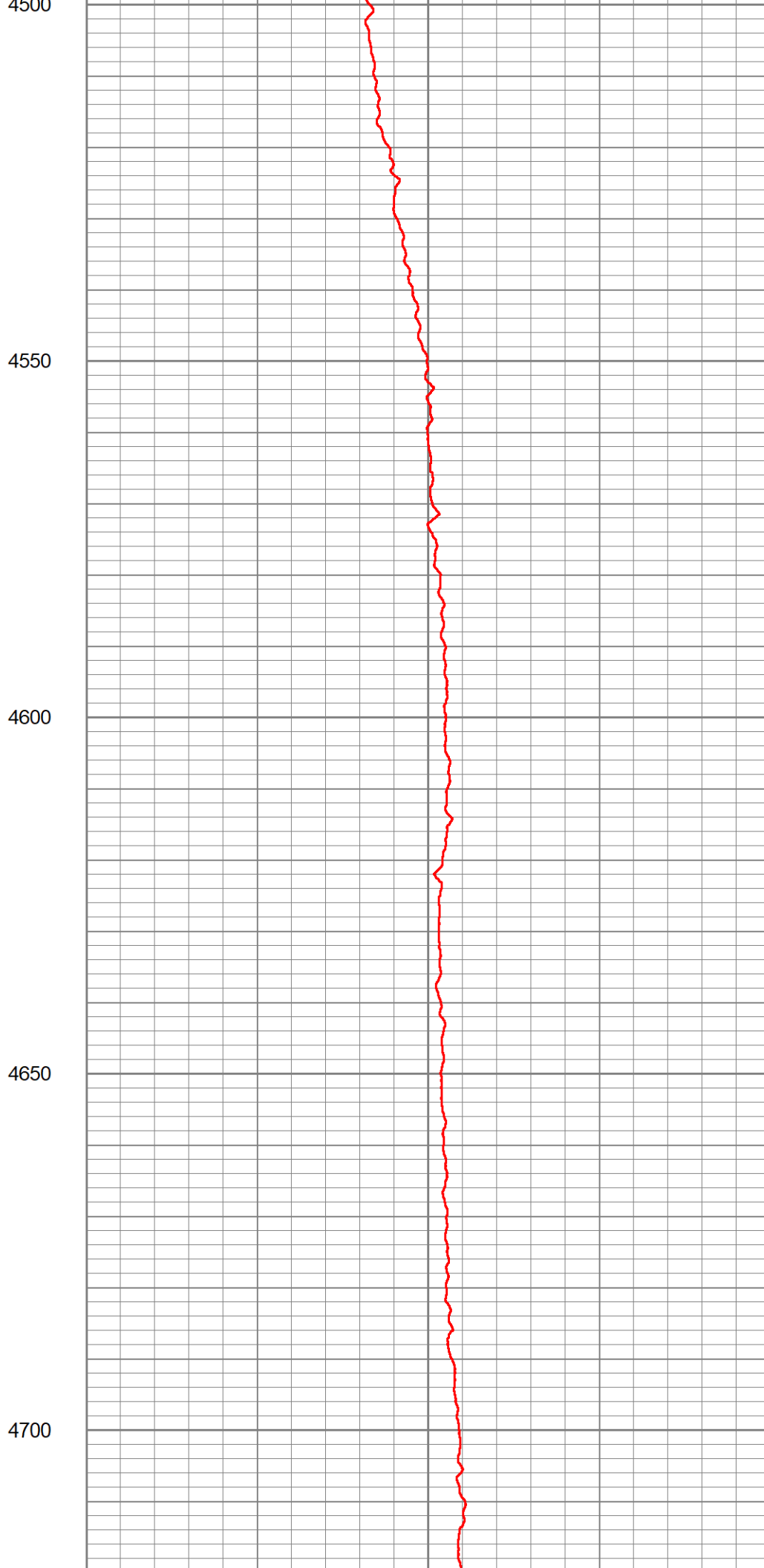
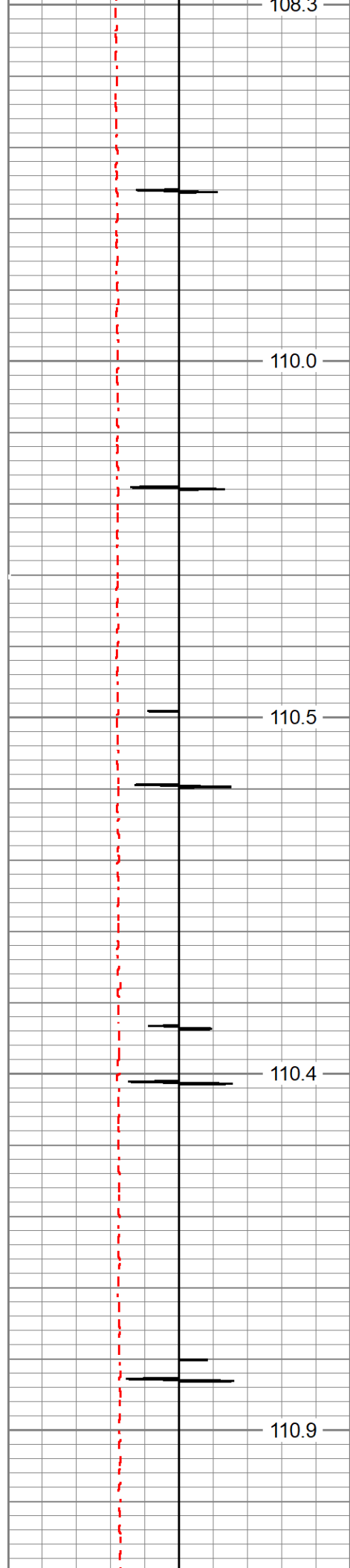
4350

4400

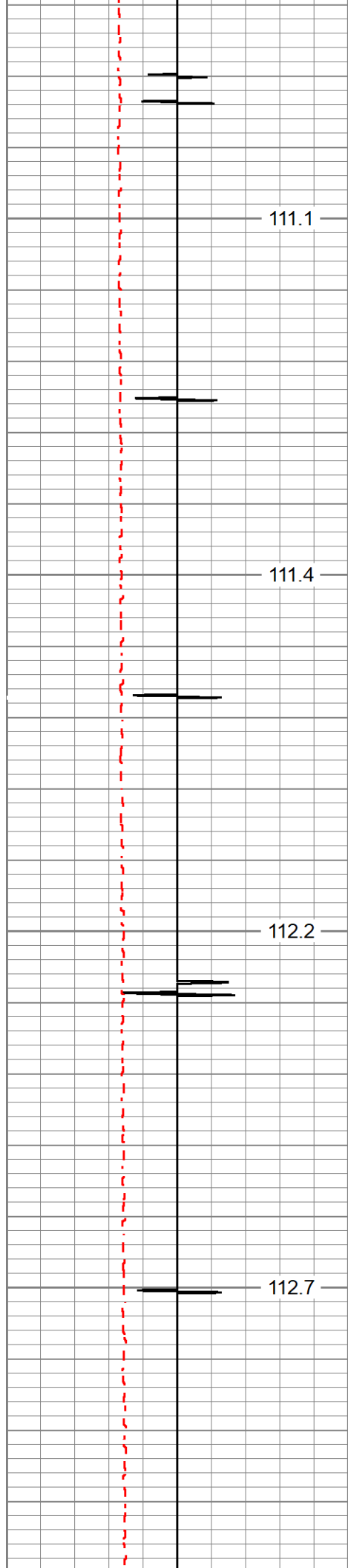
4450

4500







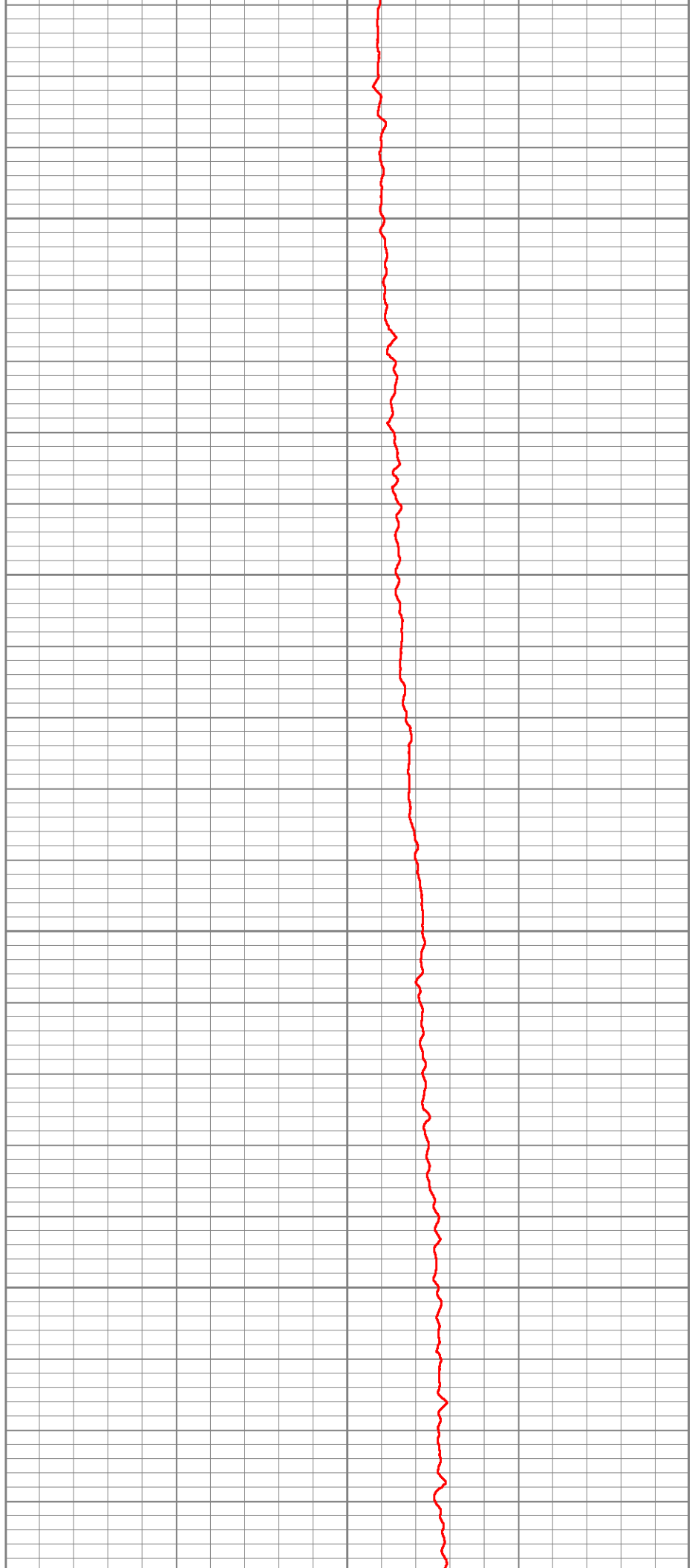


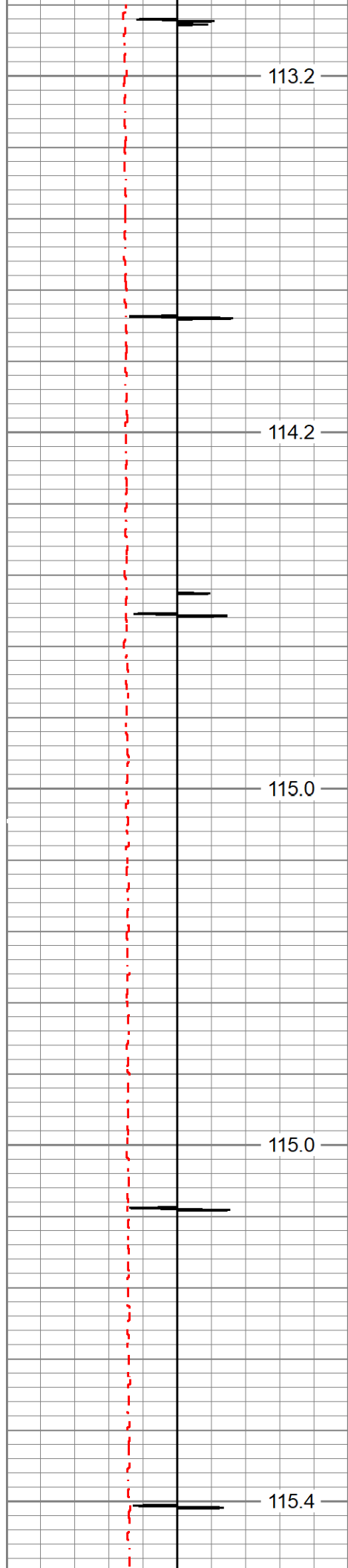
4750

4800

4850

4900





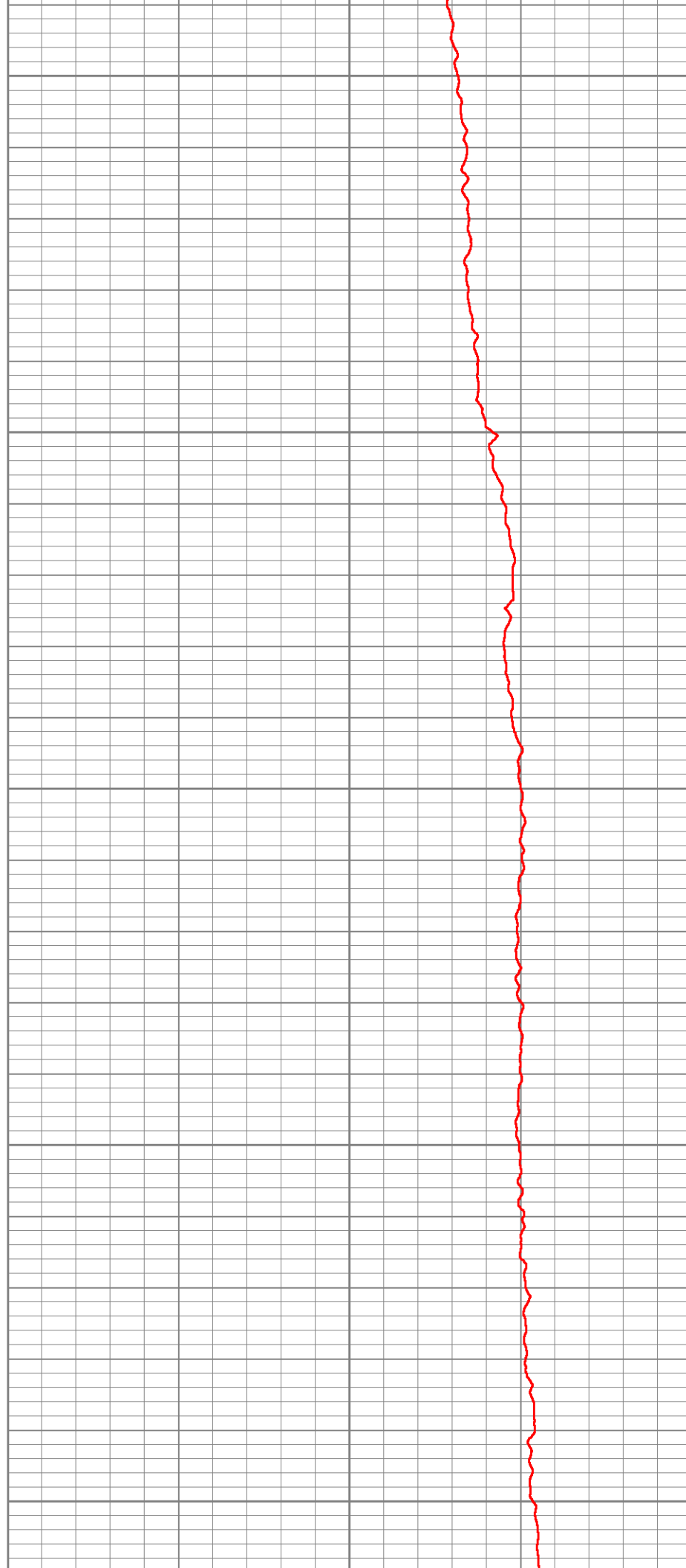
4950

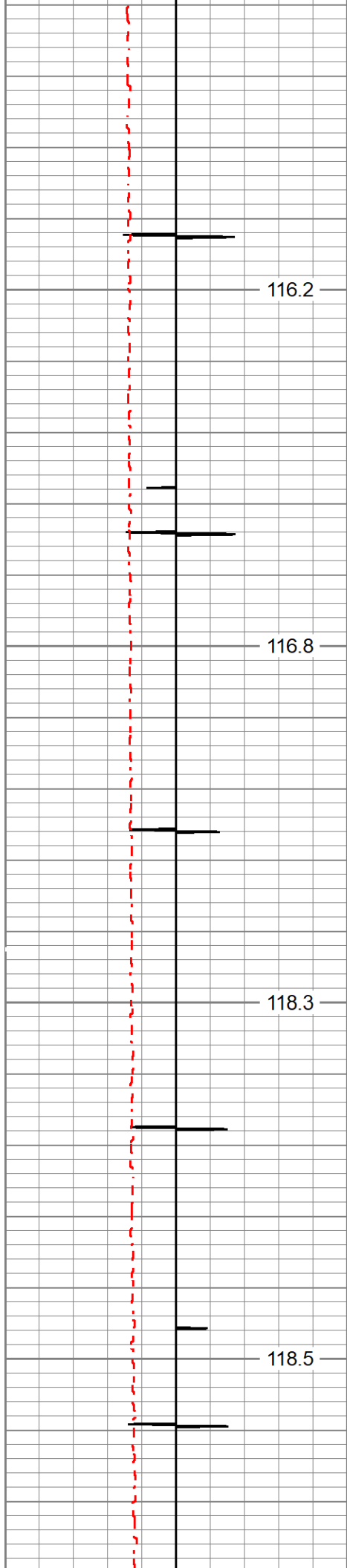
5000

5050

5100

5150



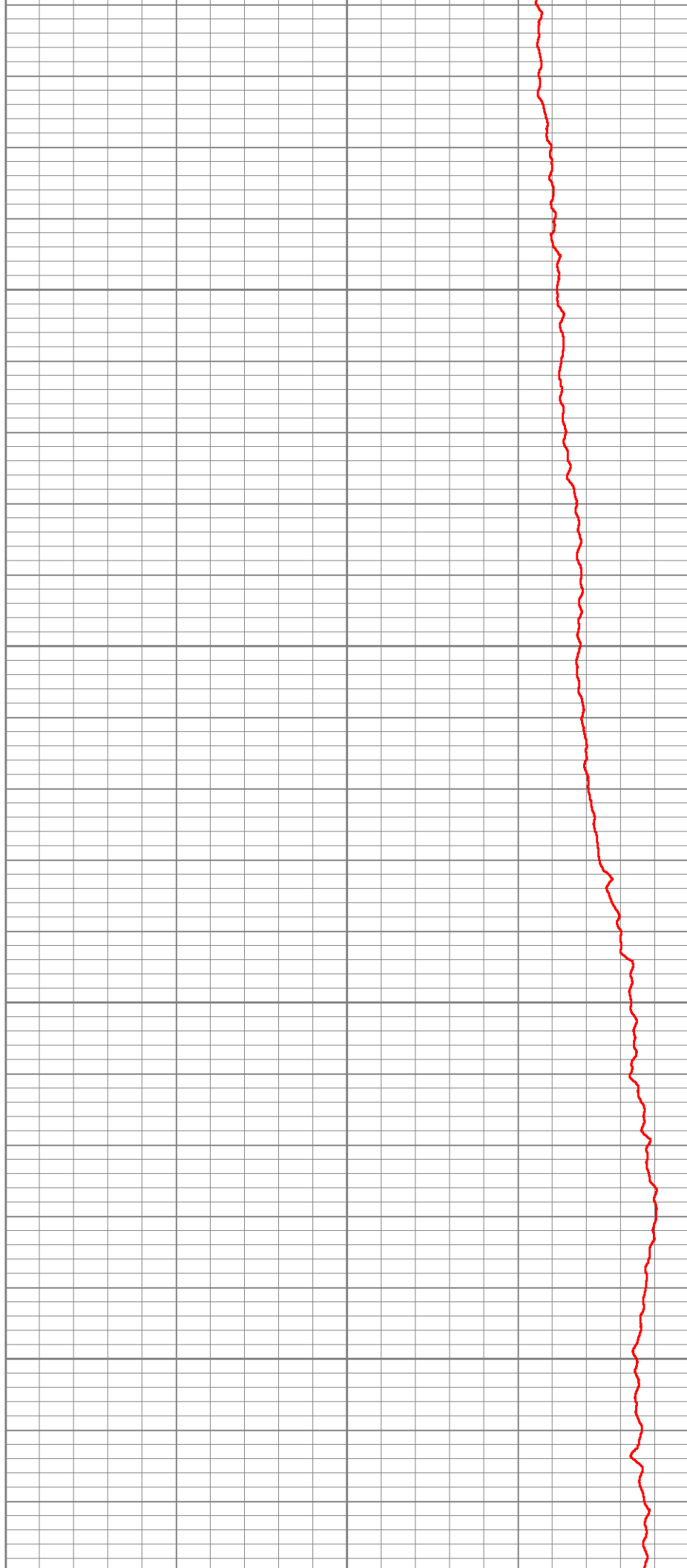


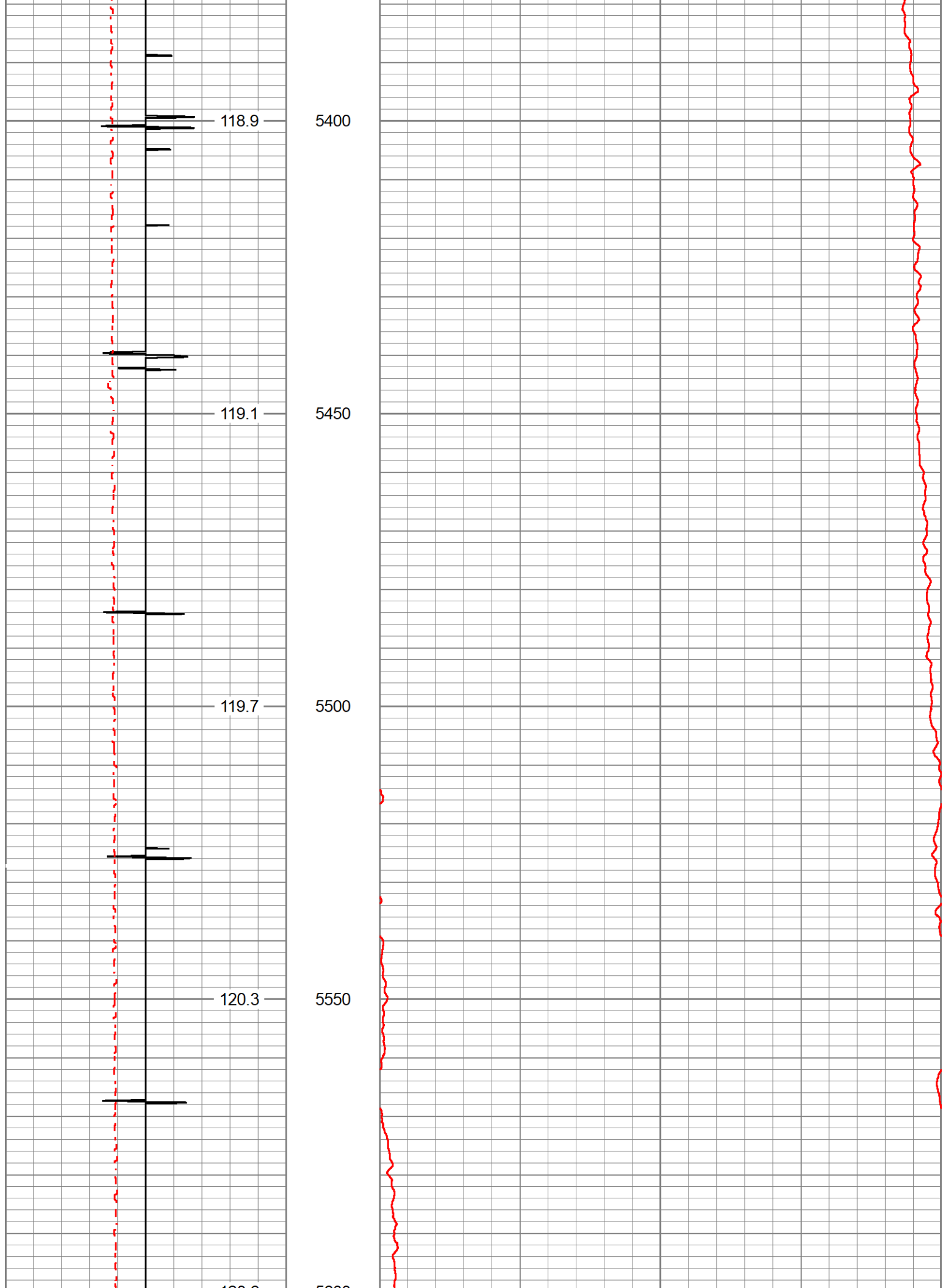
5200

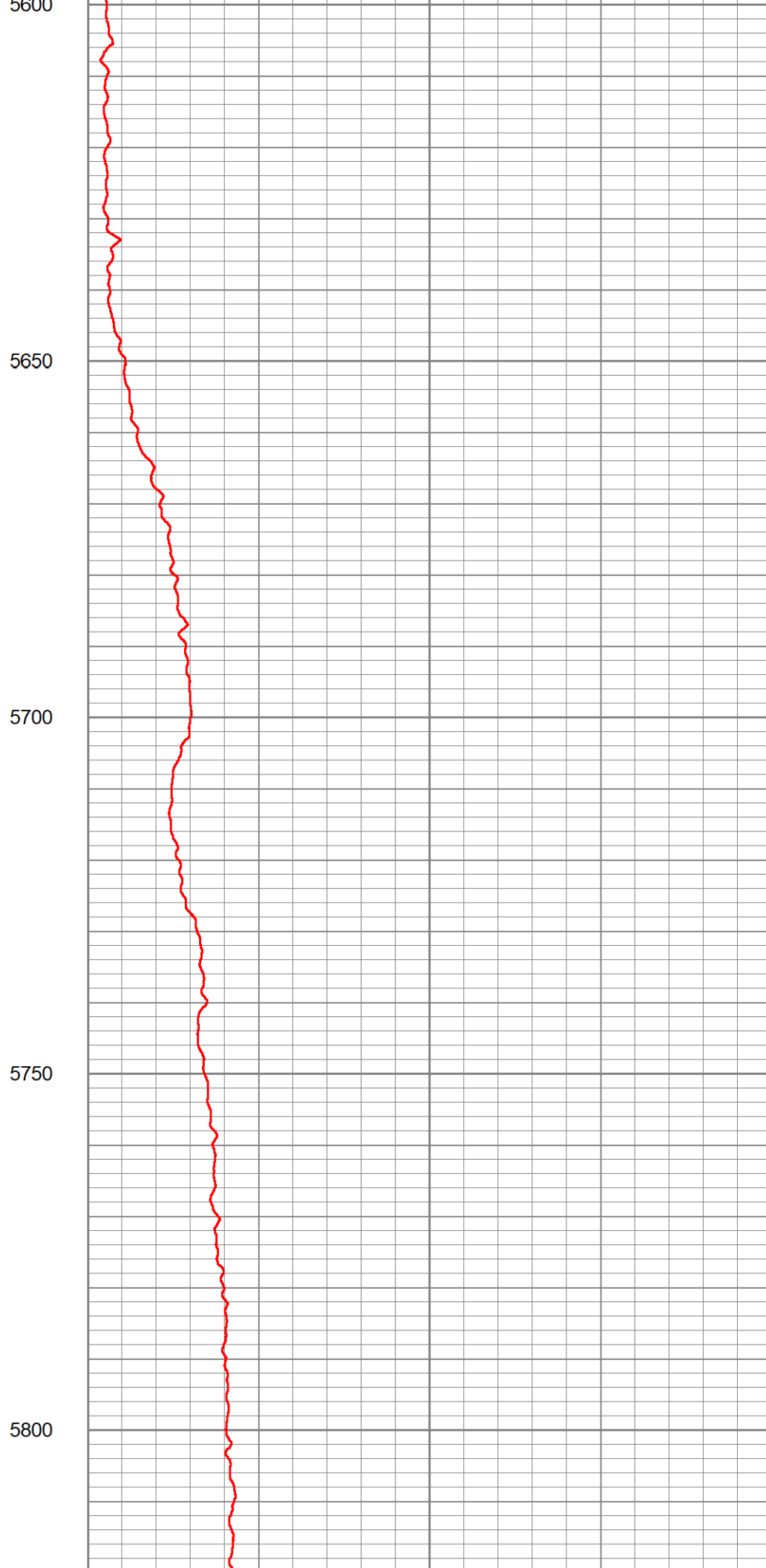
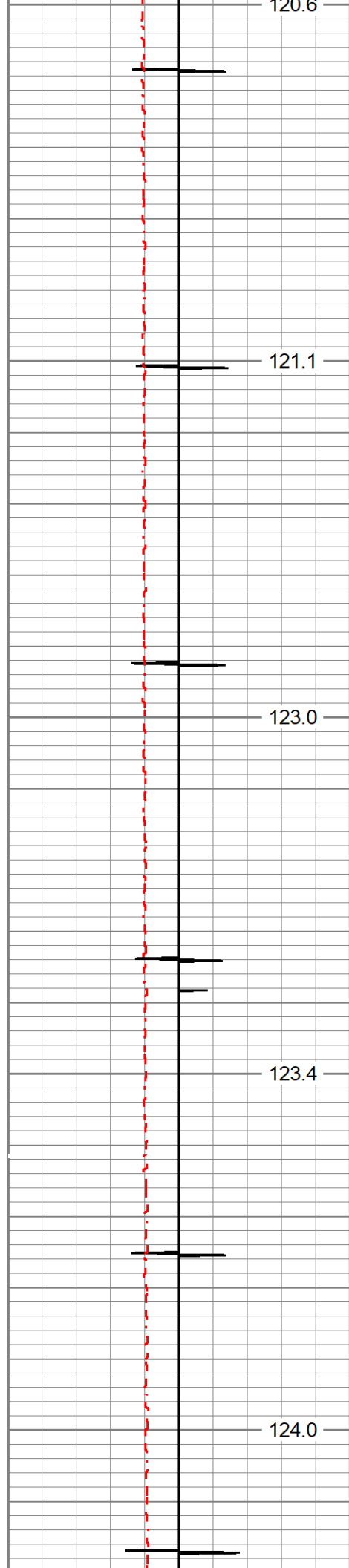
5250

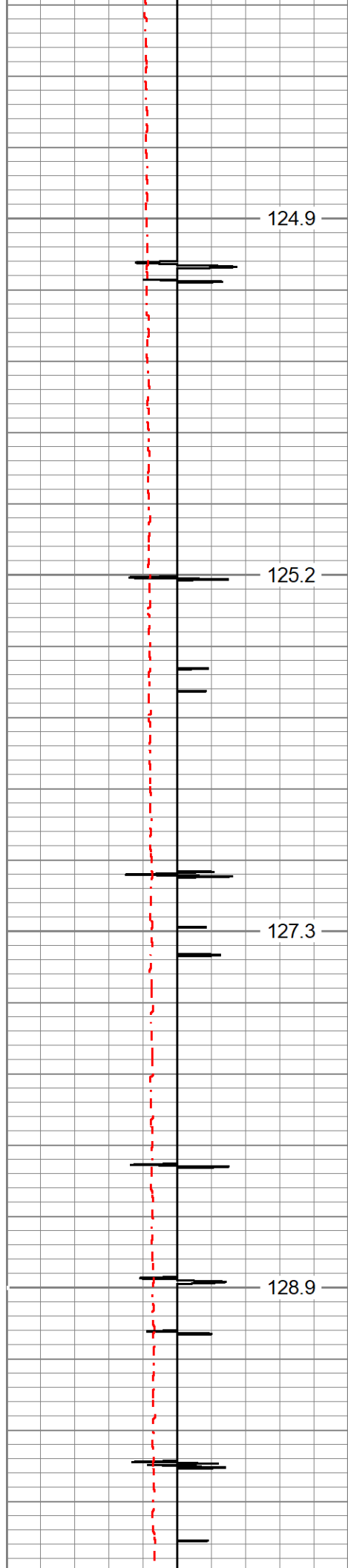
5300

5350







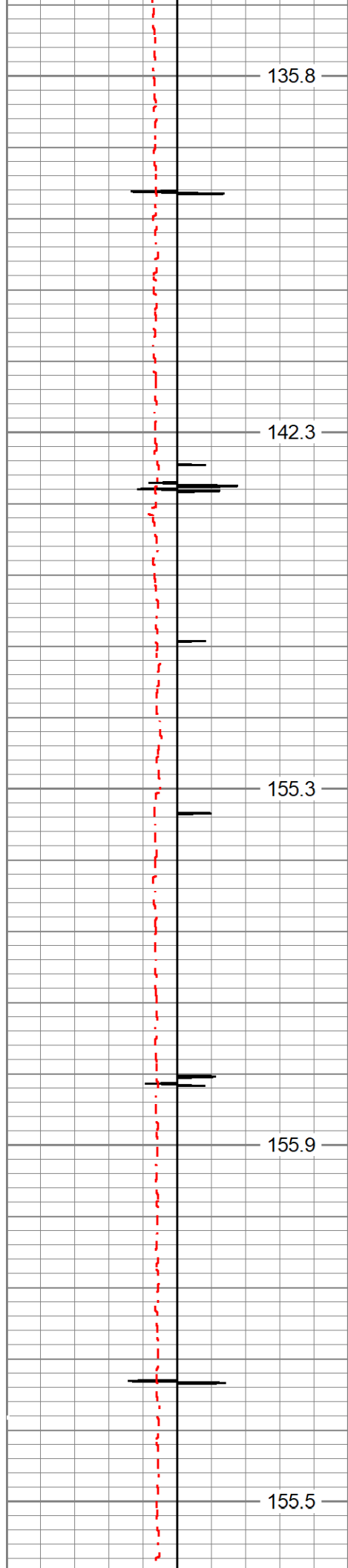


5850

5900

5950

6000



6050

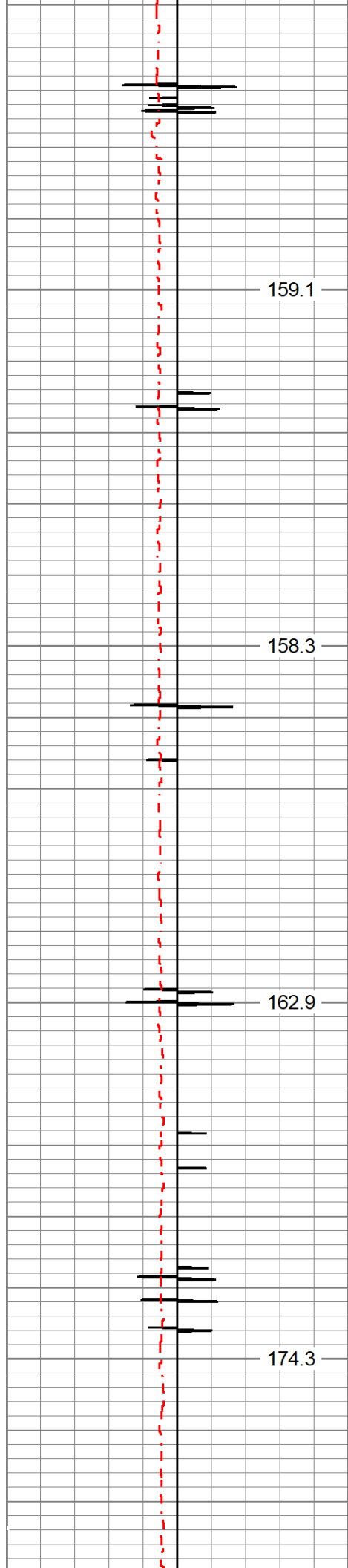
6100

6150

6200

6250

← Estimated Top of Cement

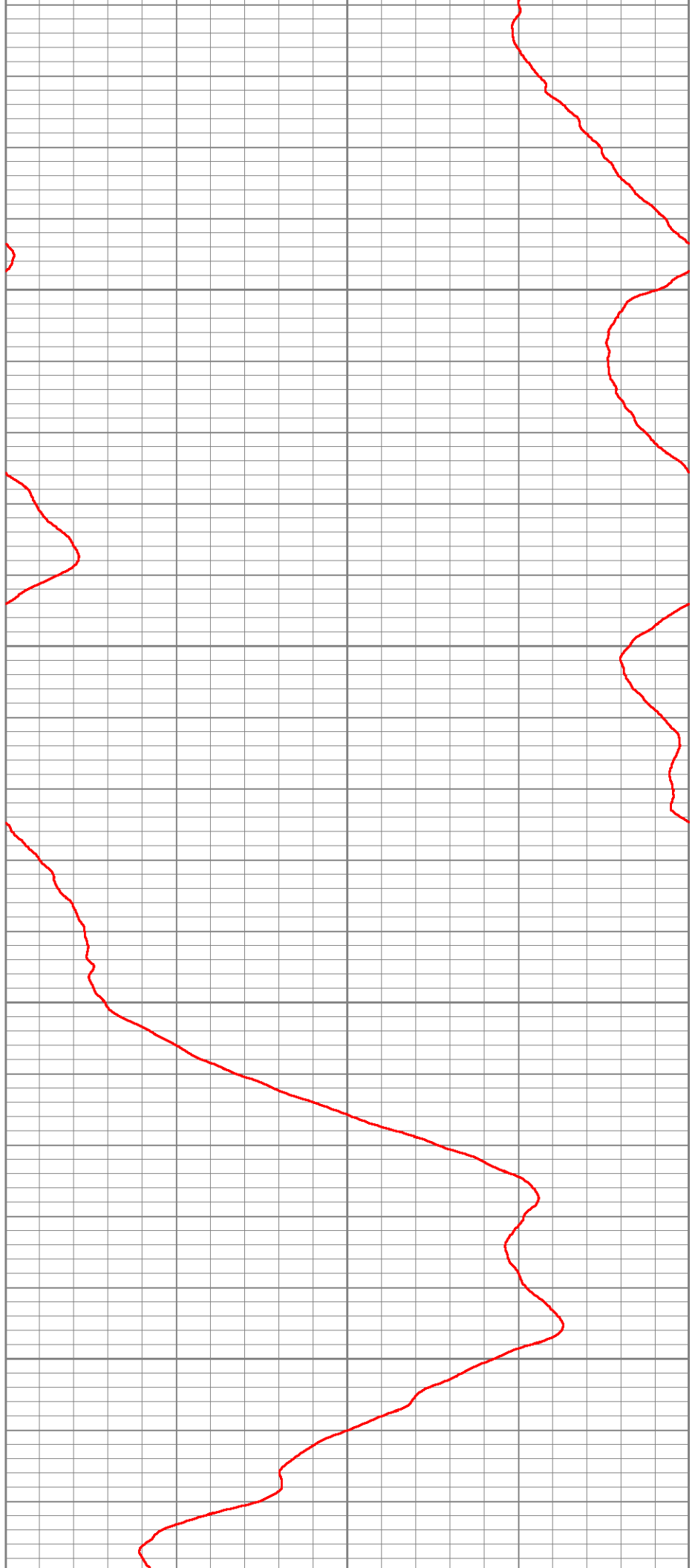


6300

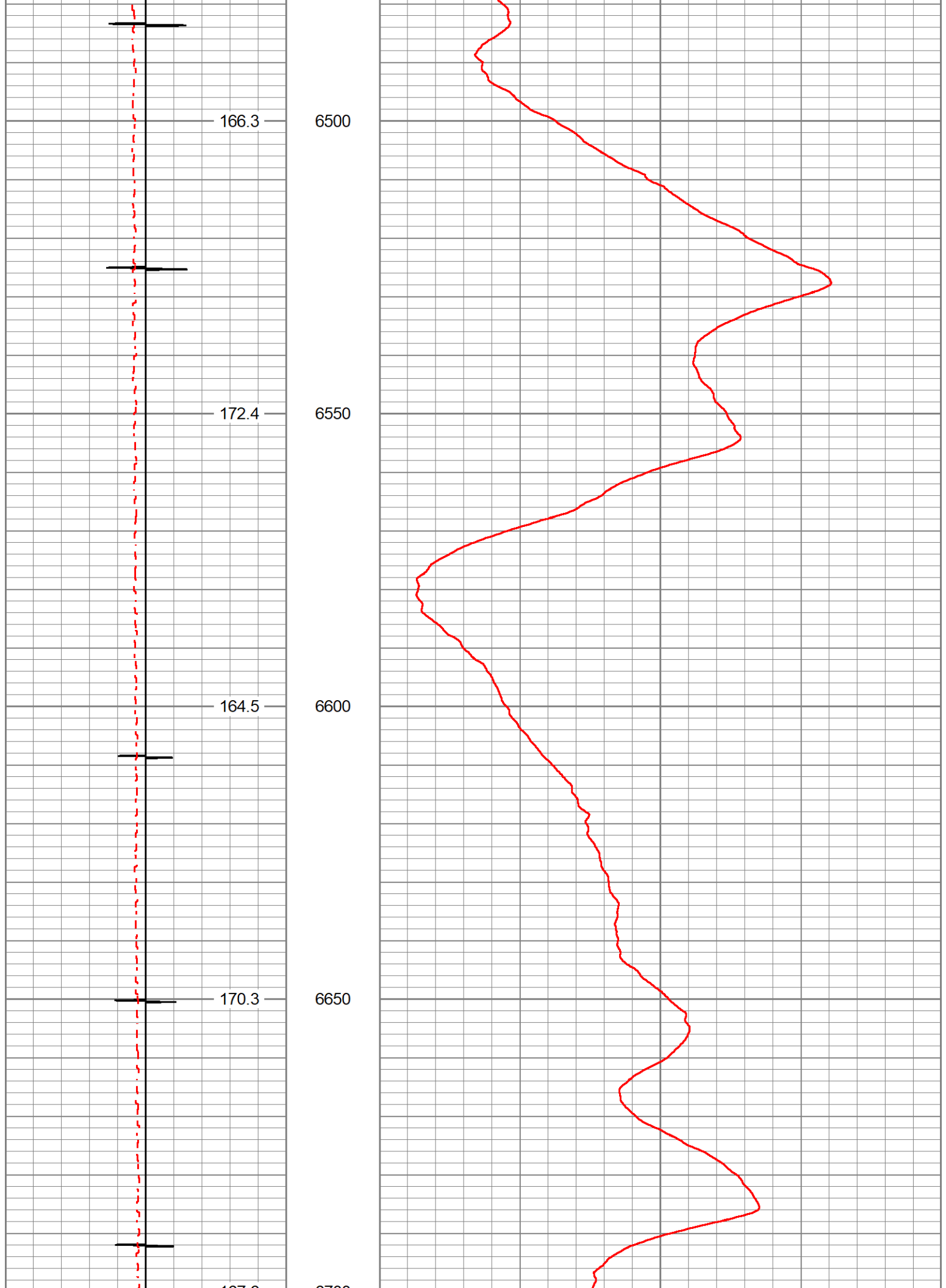
6350

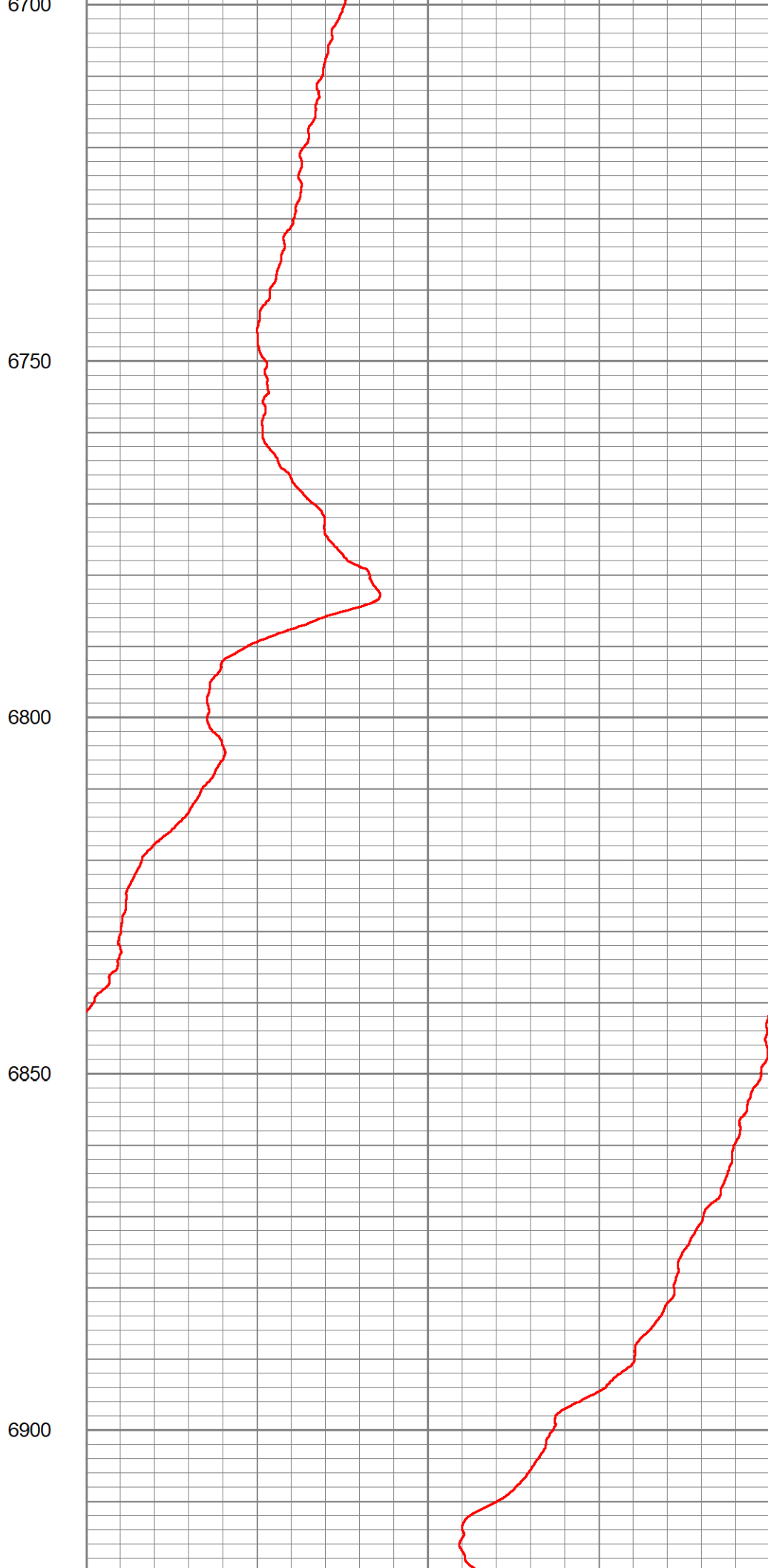
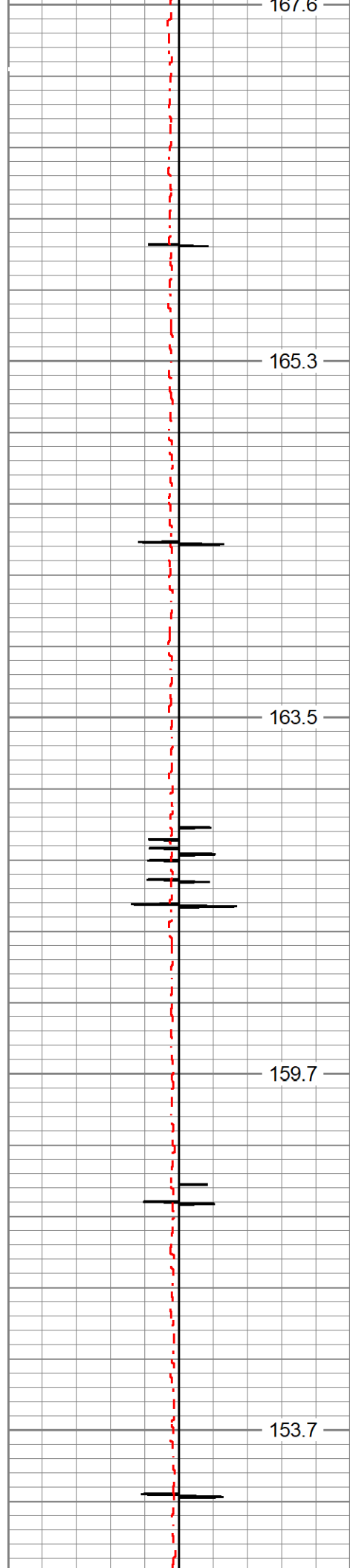
6400

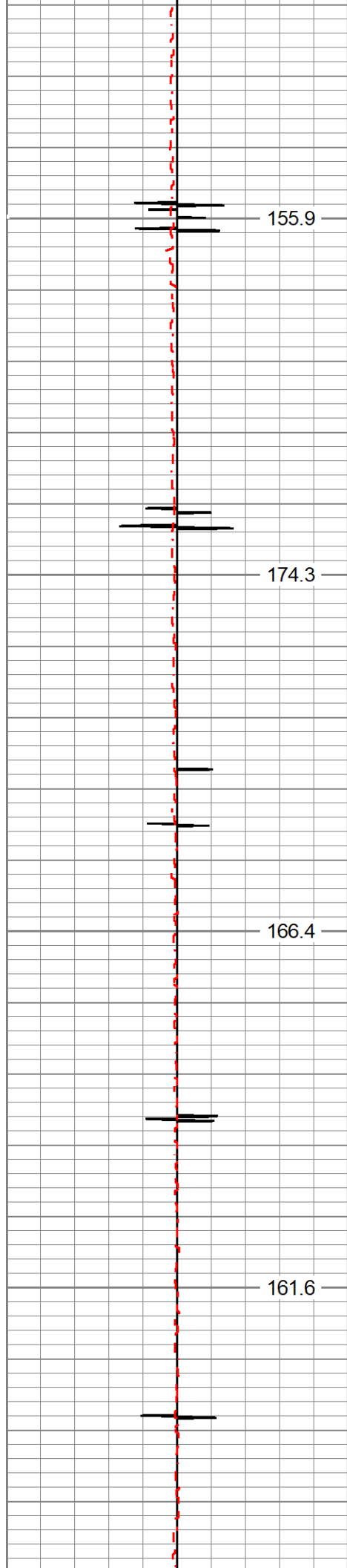
6450









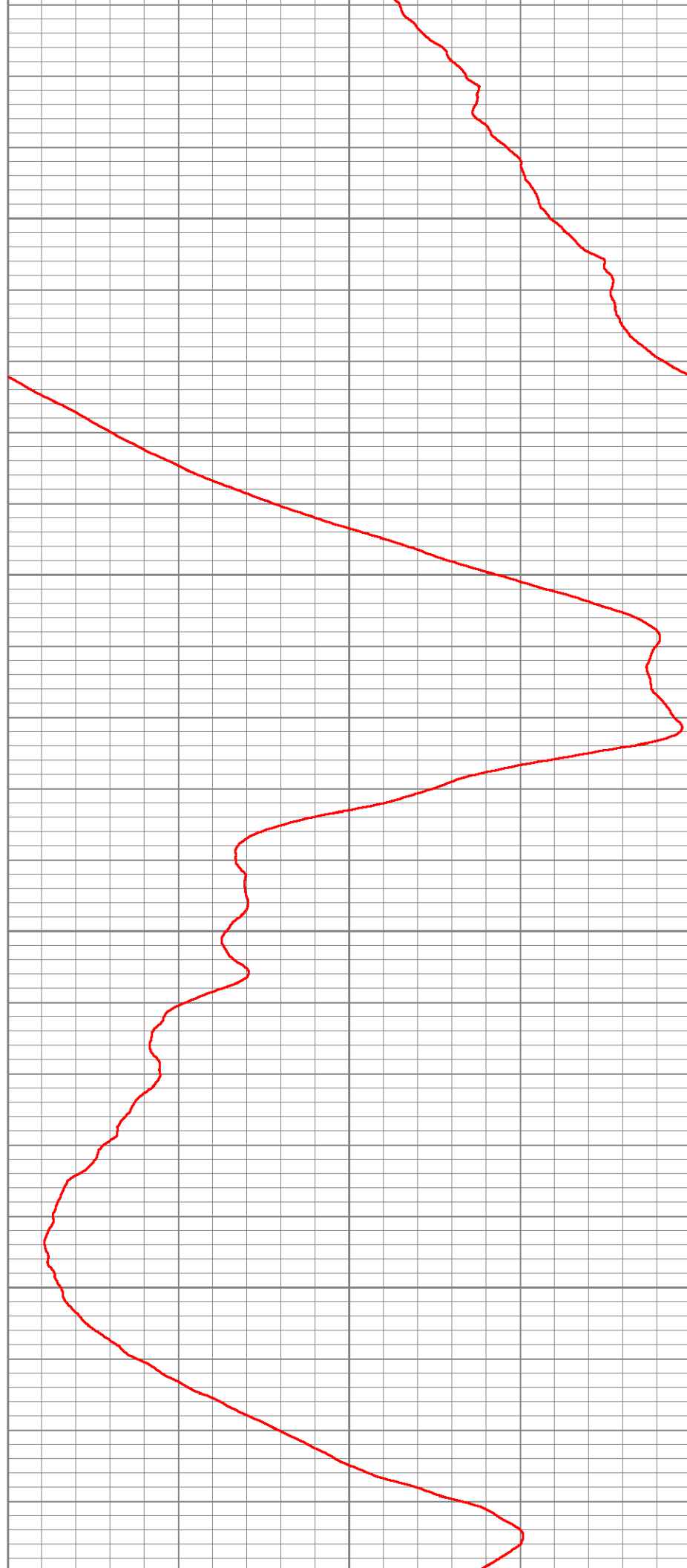


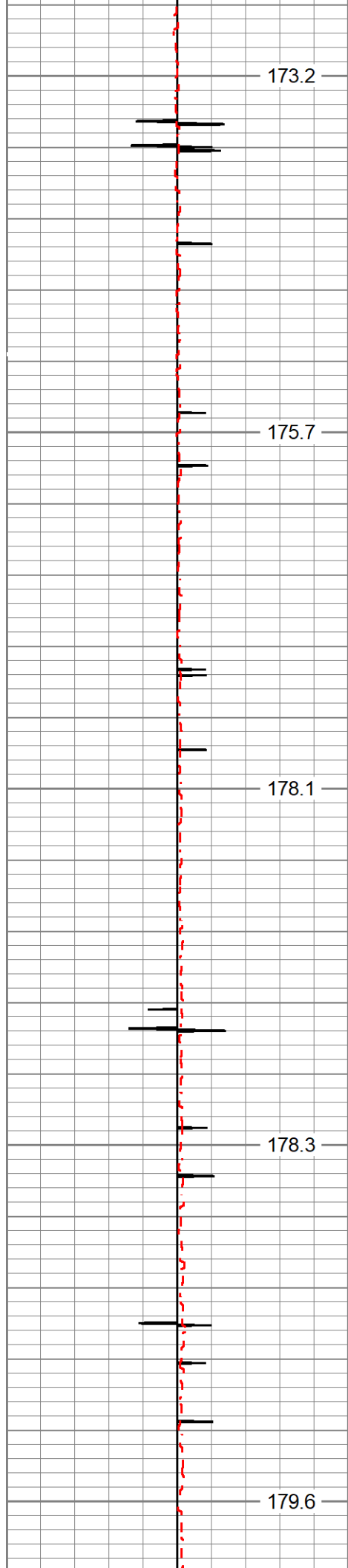
6950

7000

7050

7100





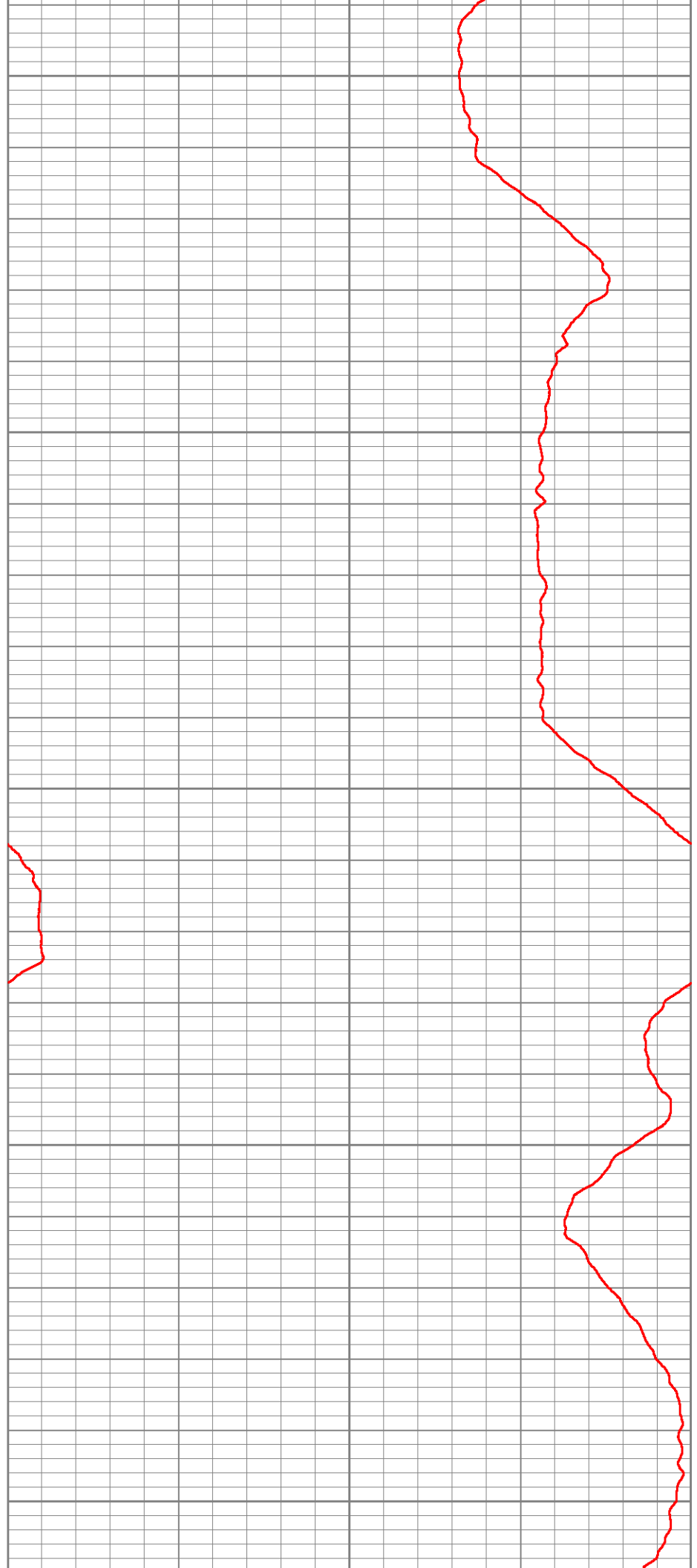
7150

7200

7250

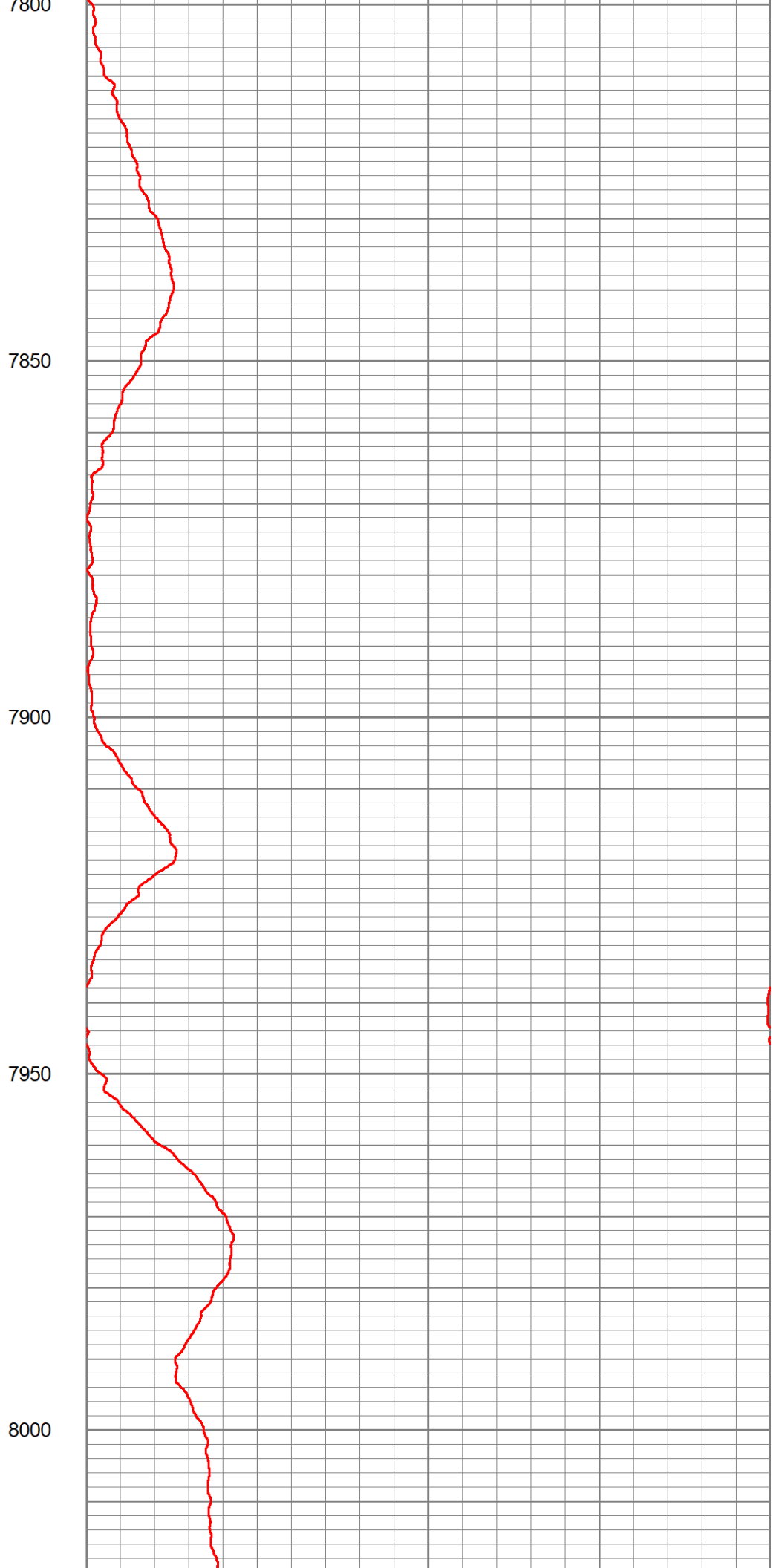
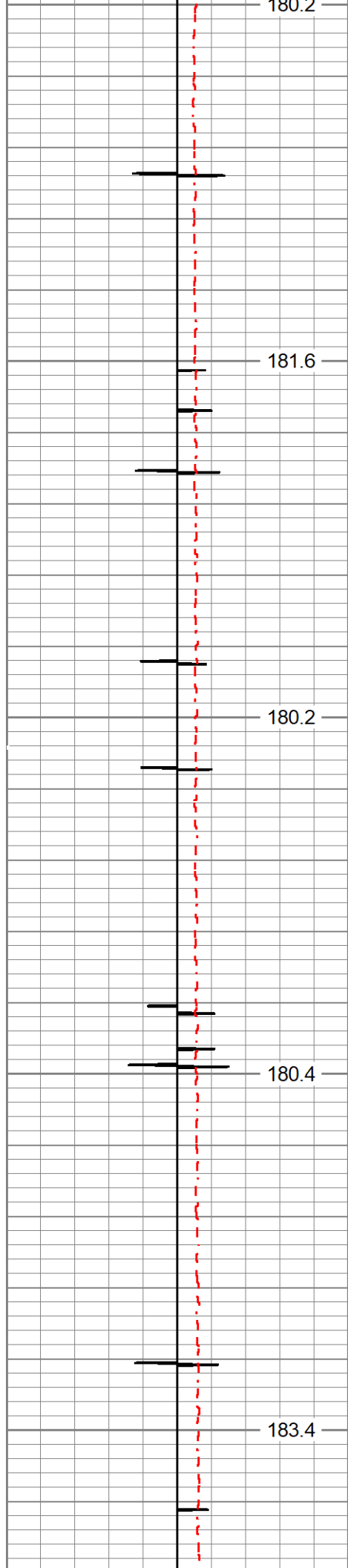
7300

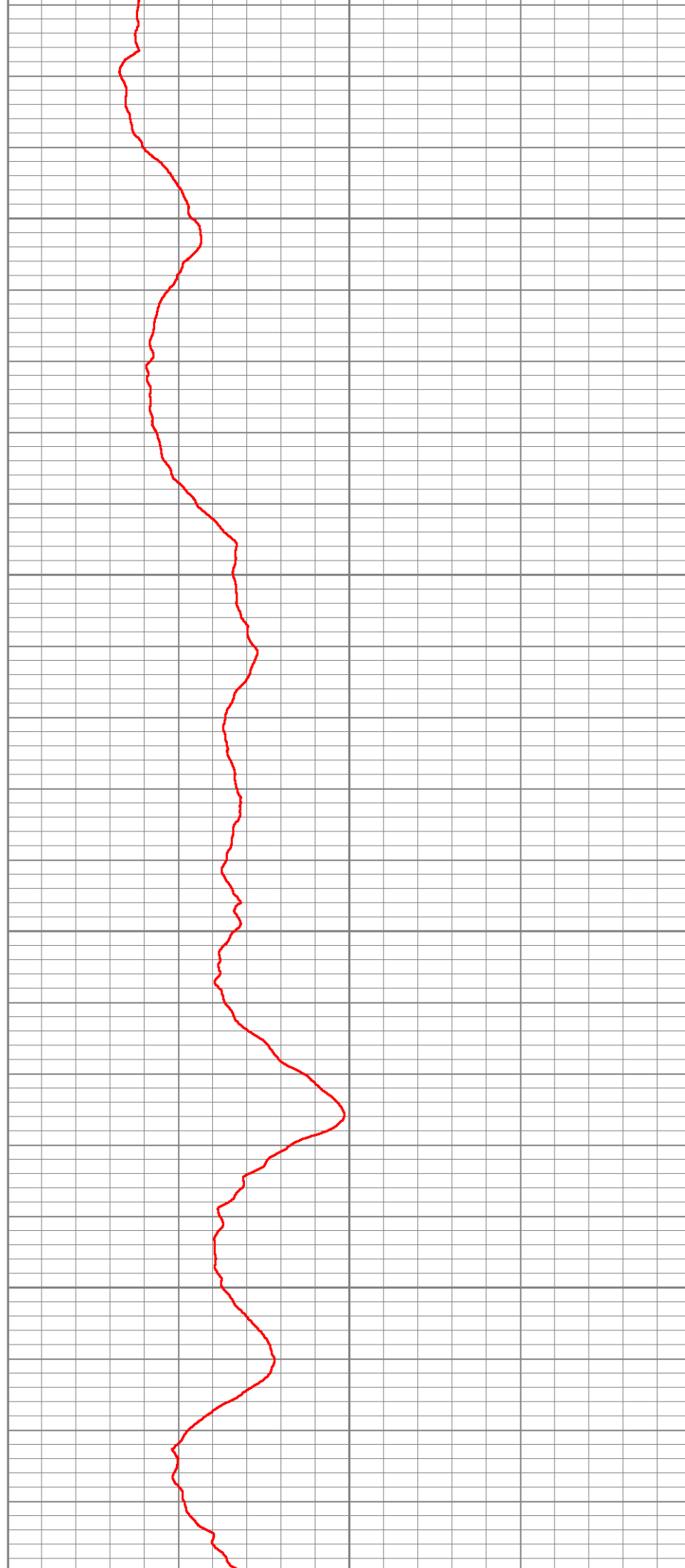
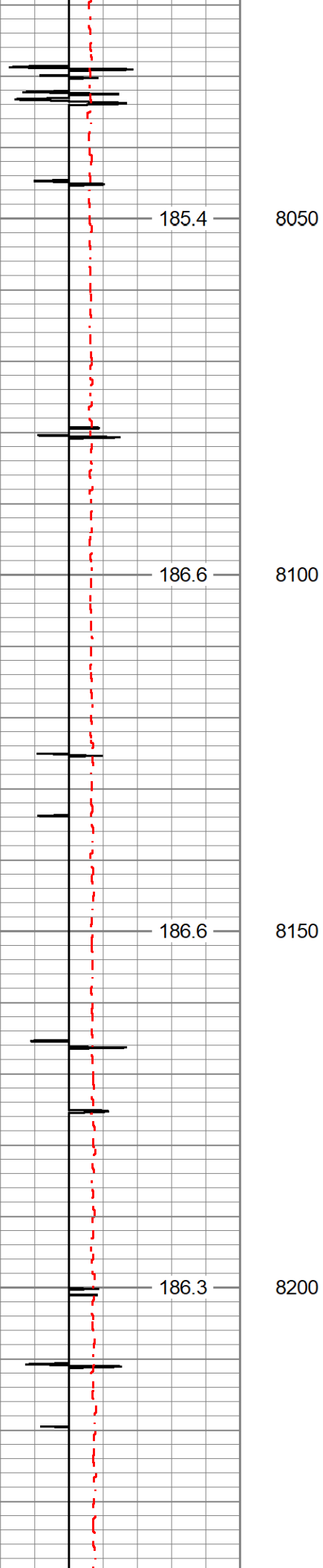
7350





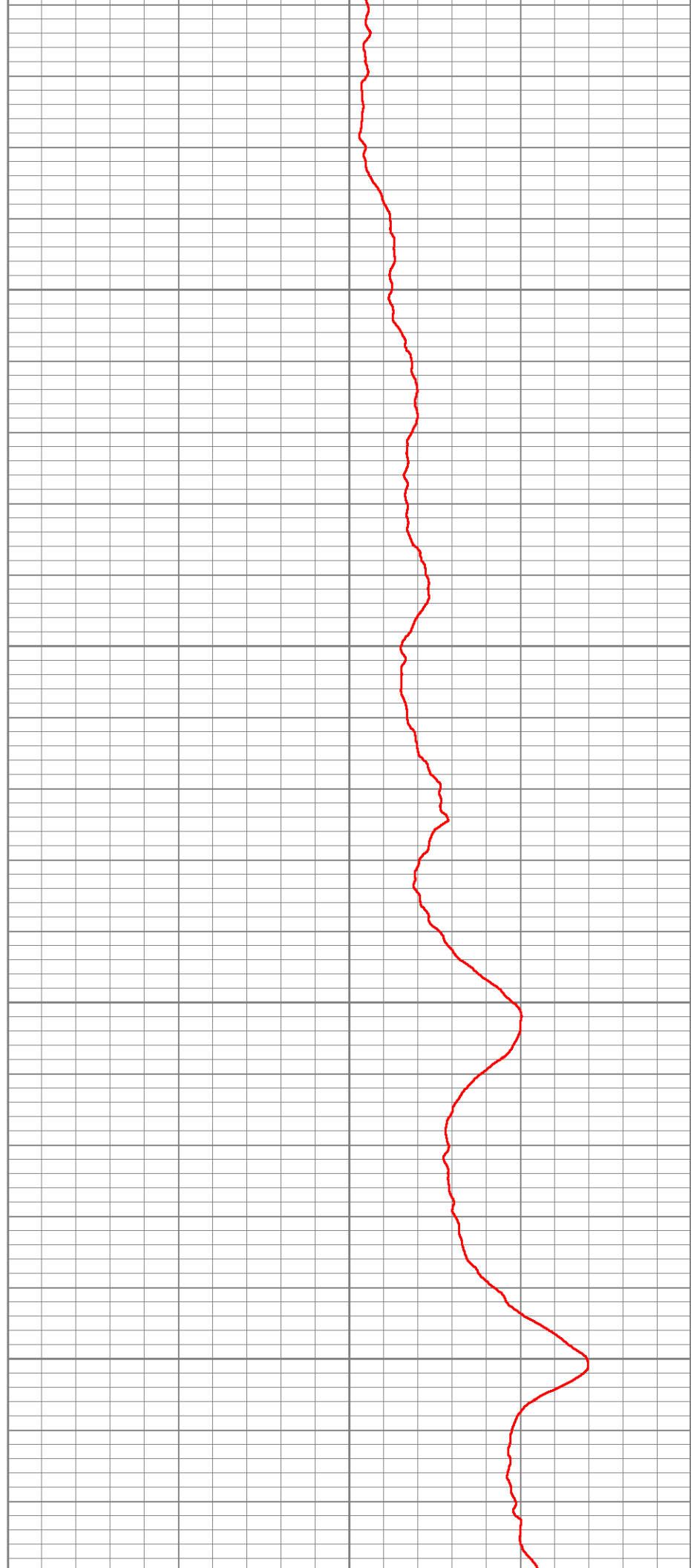
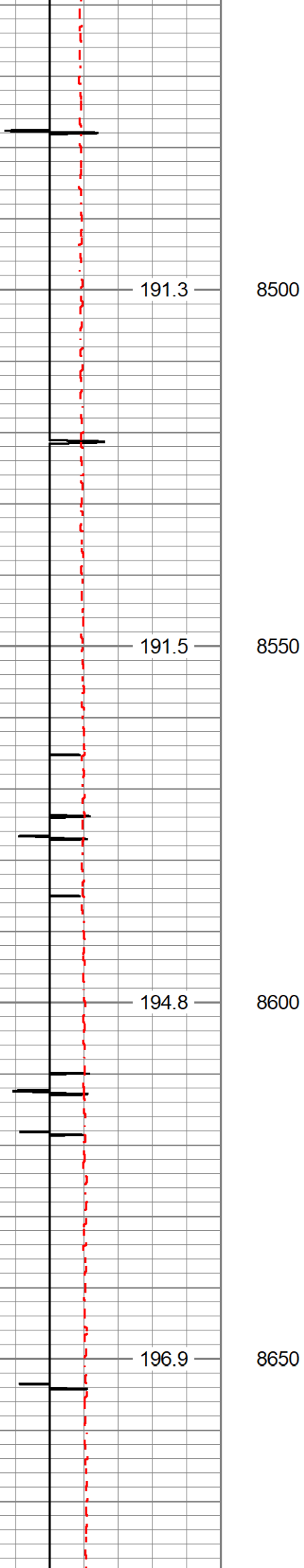


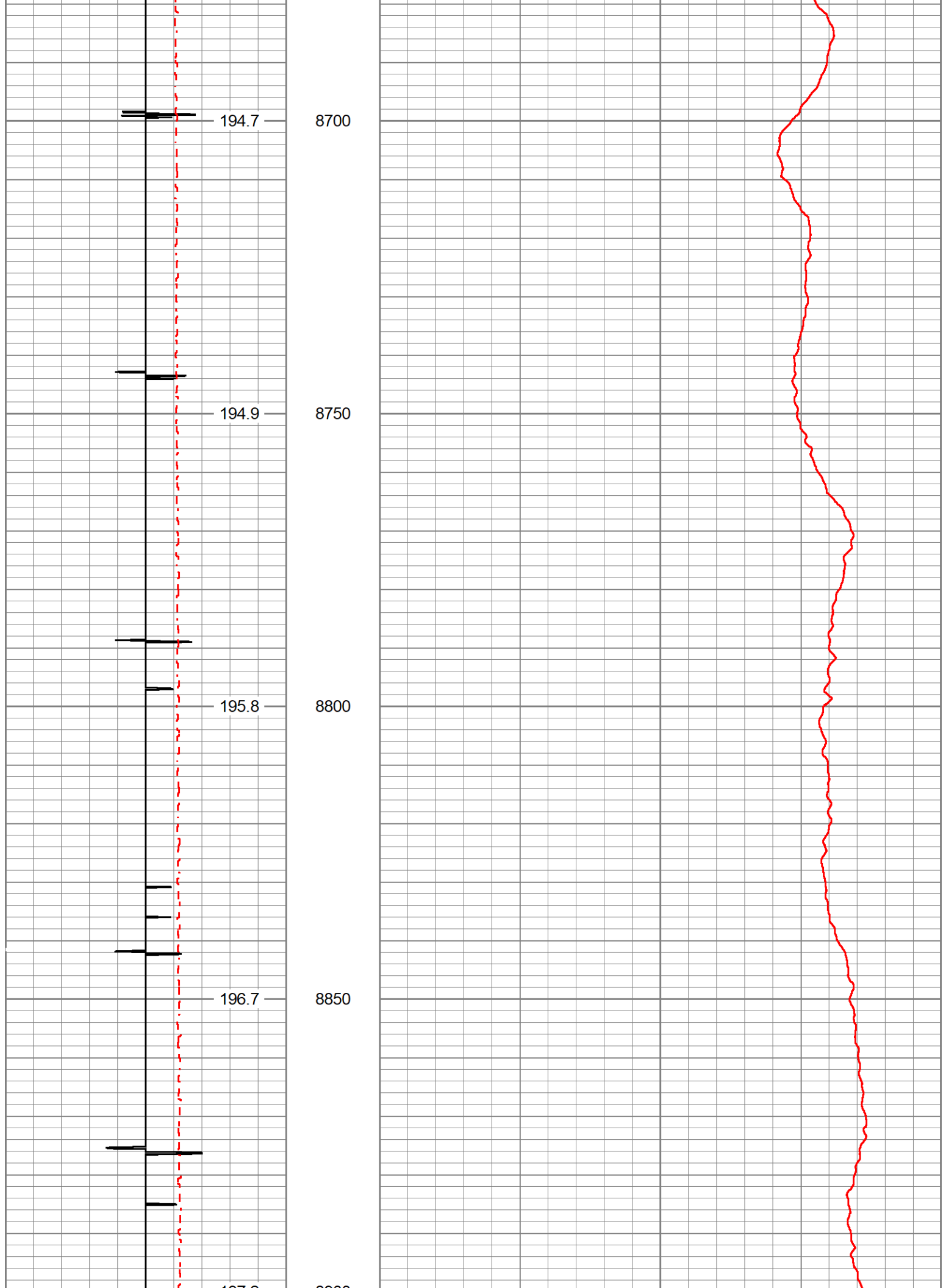


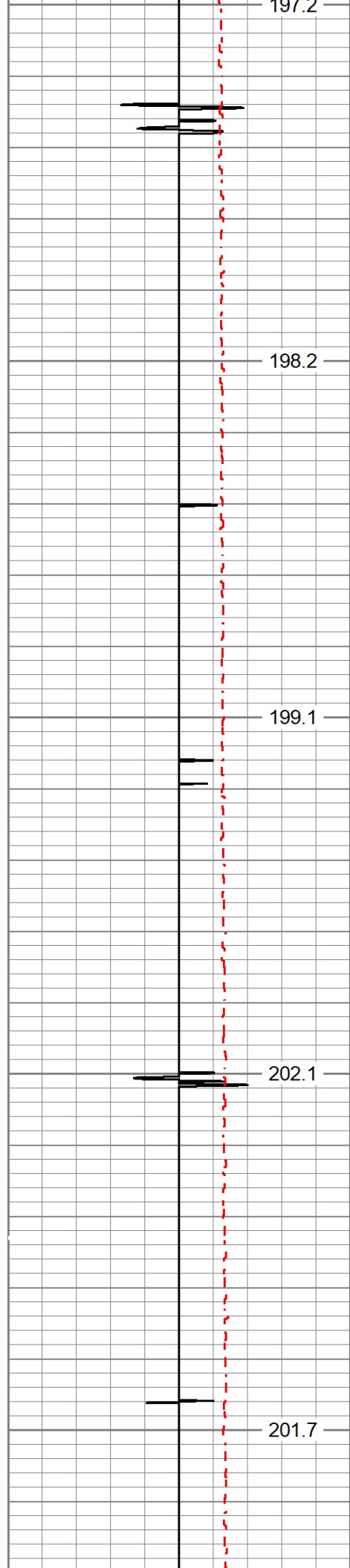




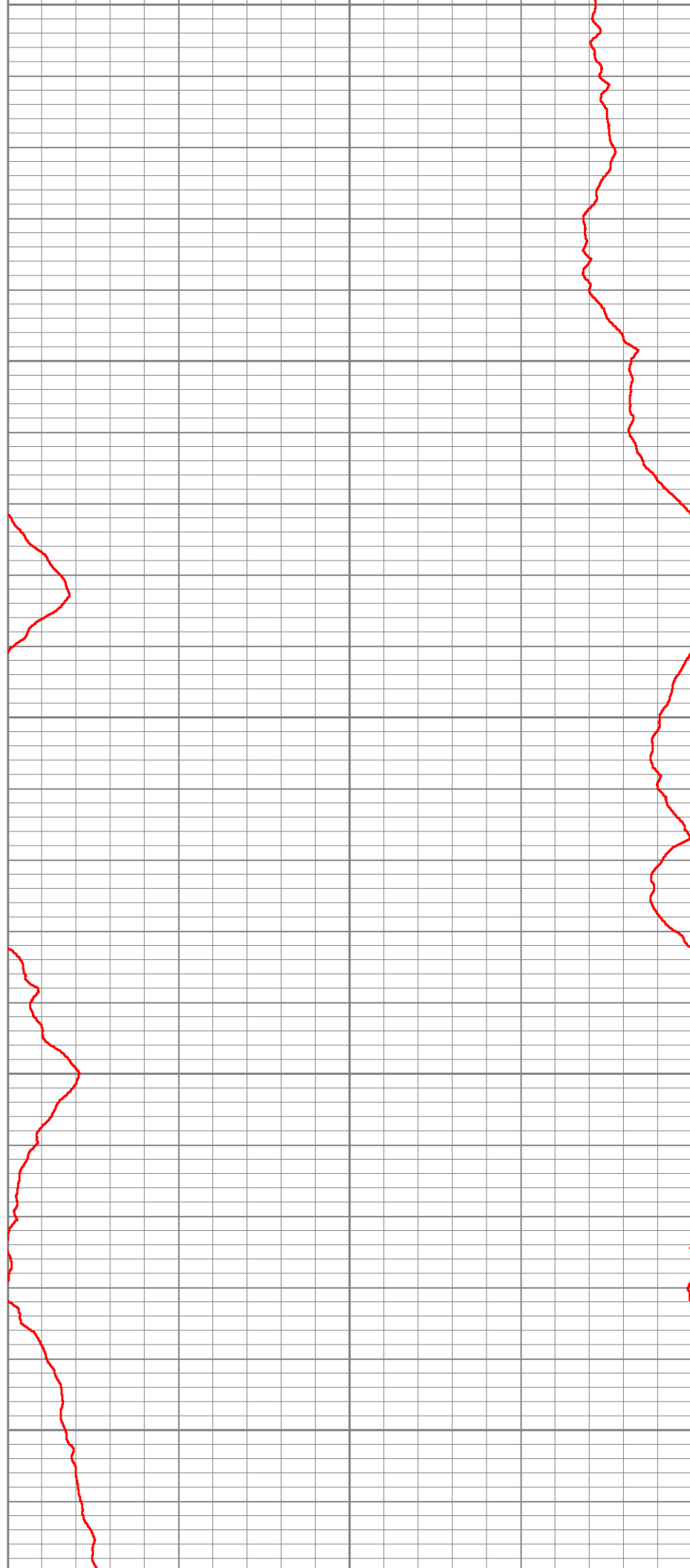


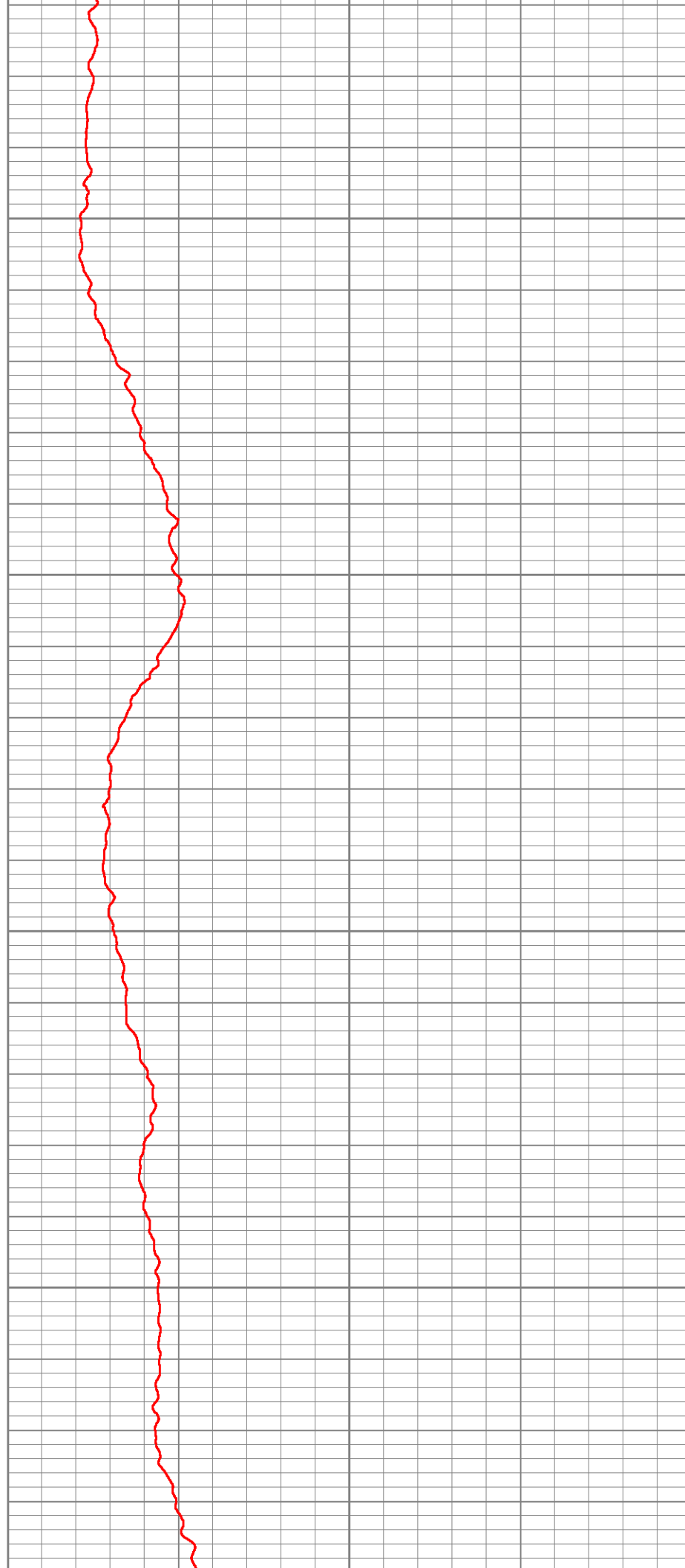
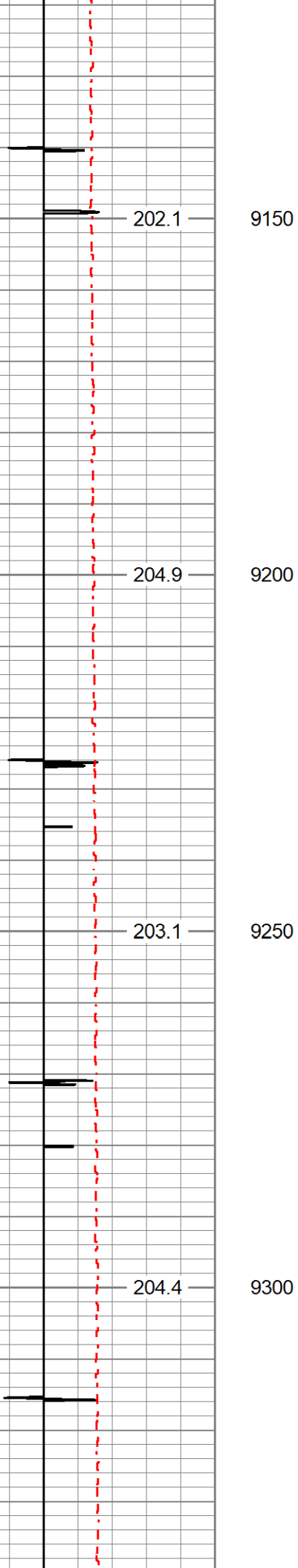


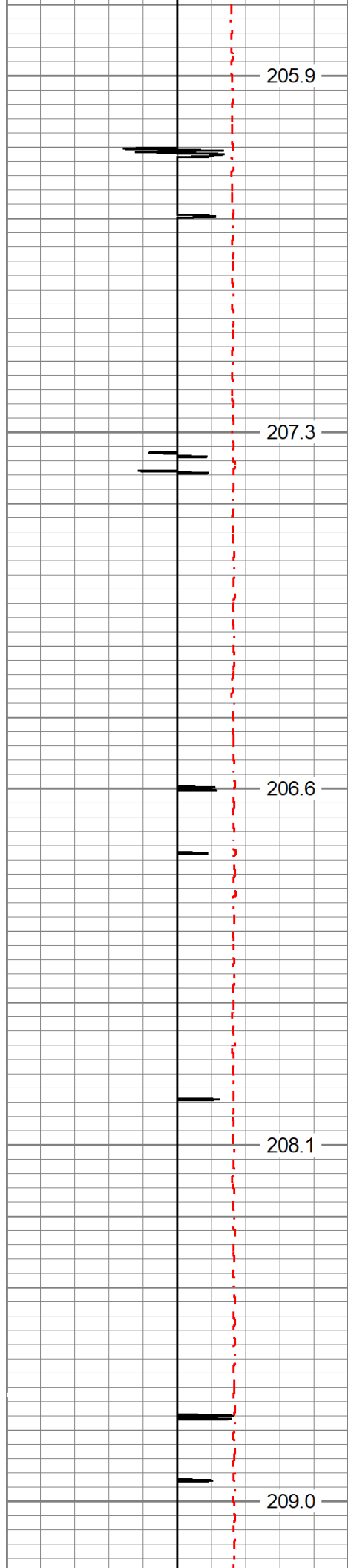




8900  
8950  
9000  
9050  
9100







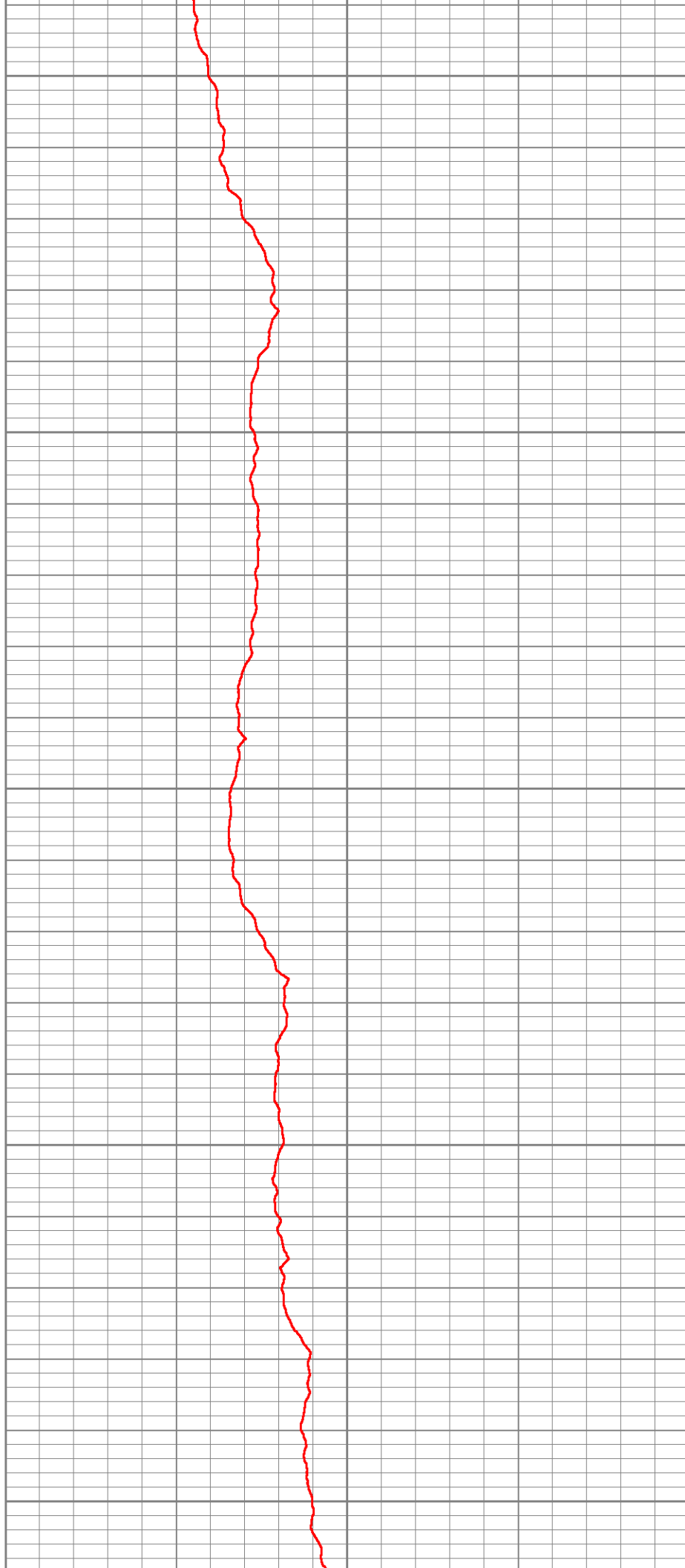
9350

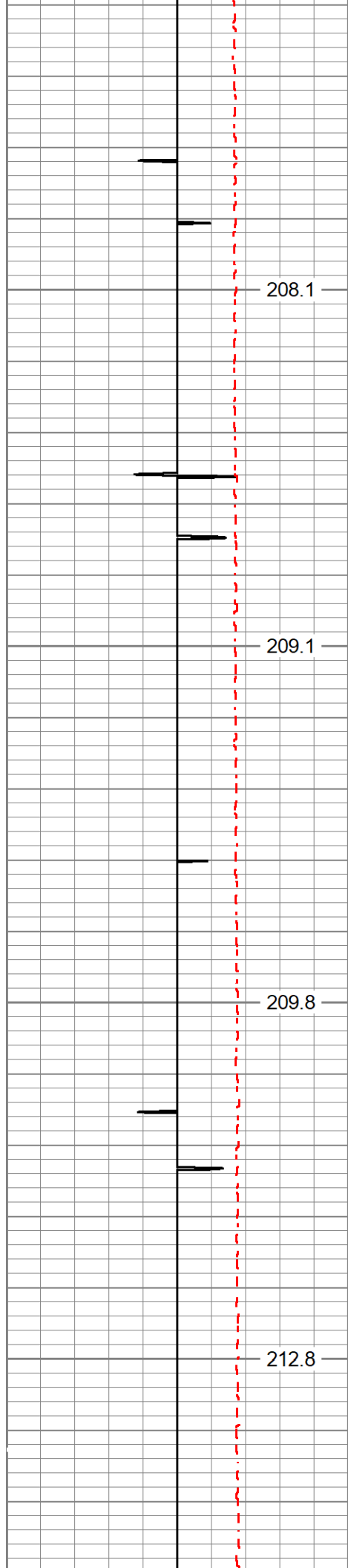
9400

9450

9500

9550



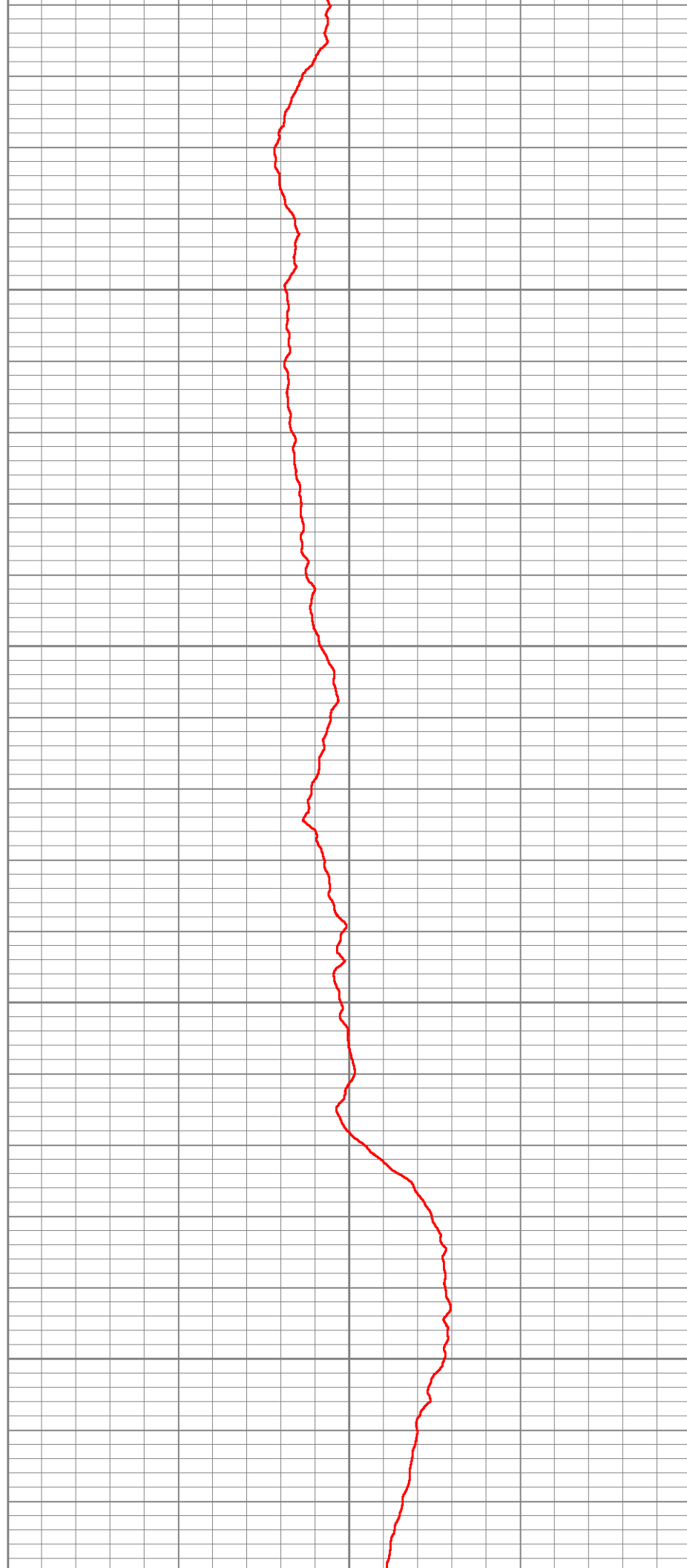


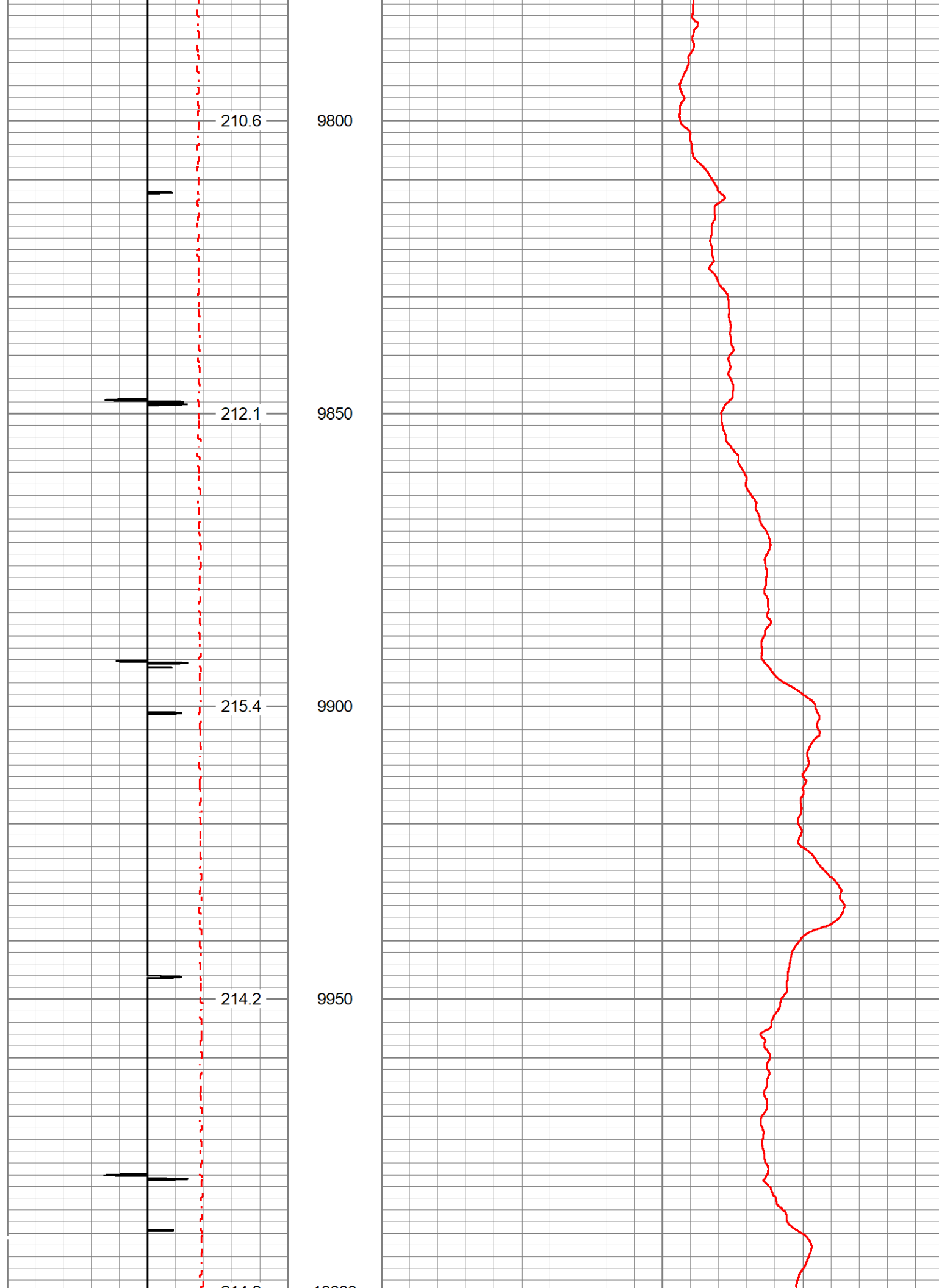
9600

9650

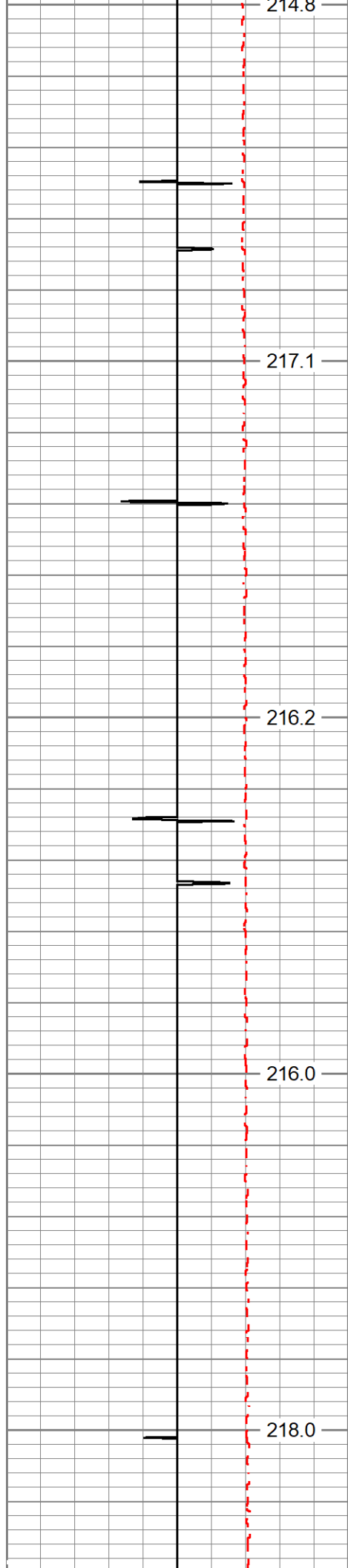
9700

9750

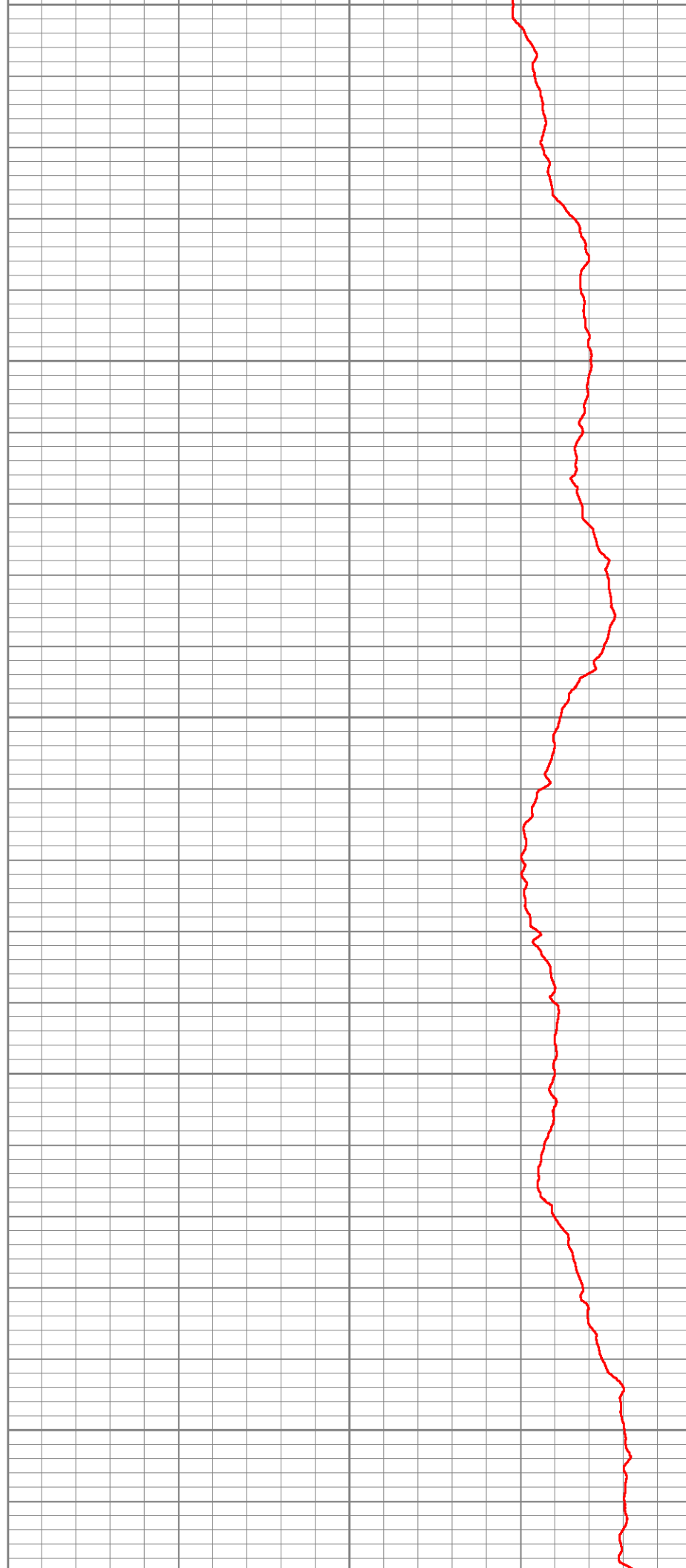


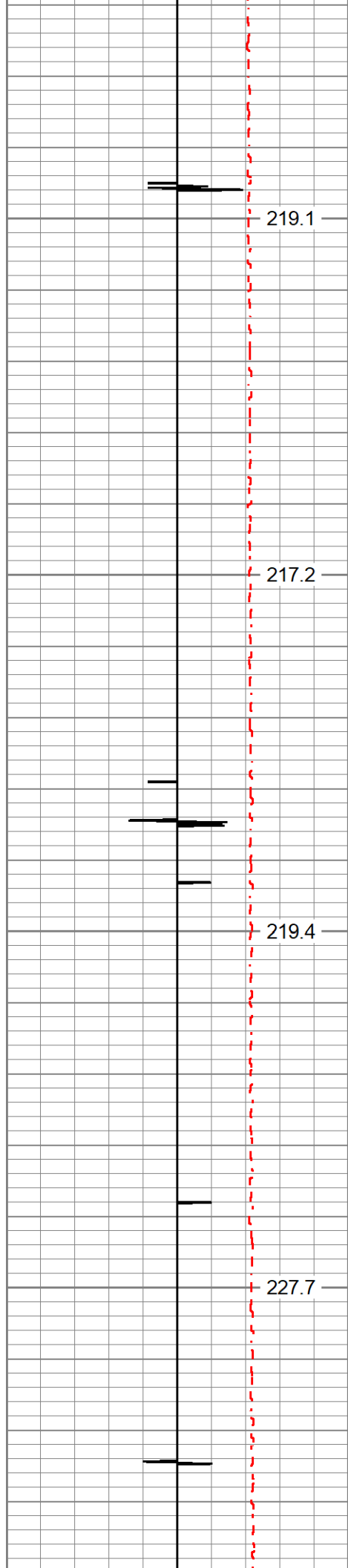






10000  
10050  
10100  
10150  
10200





219.1

217.2

219.4

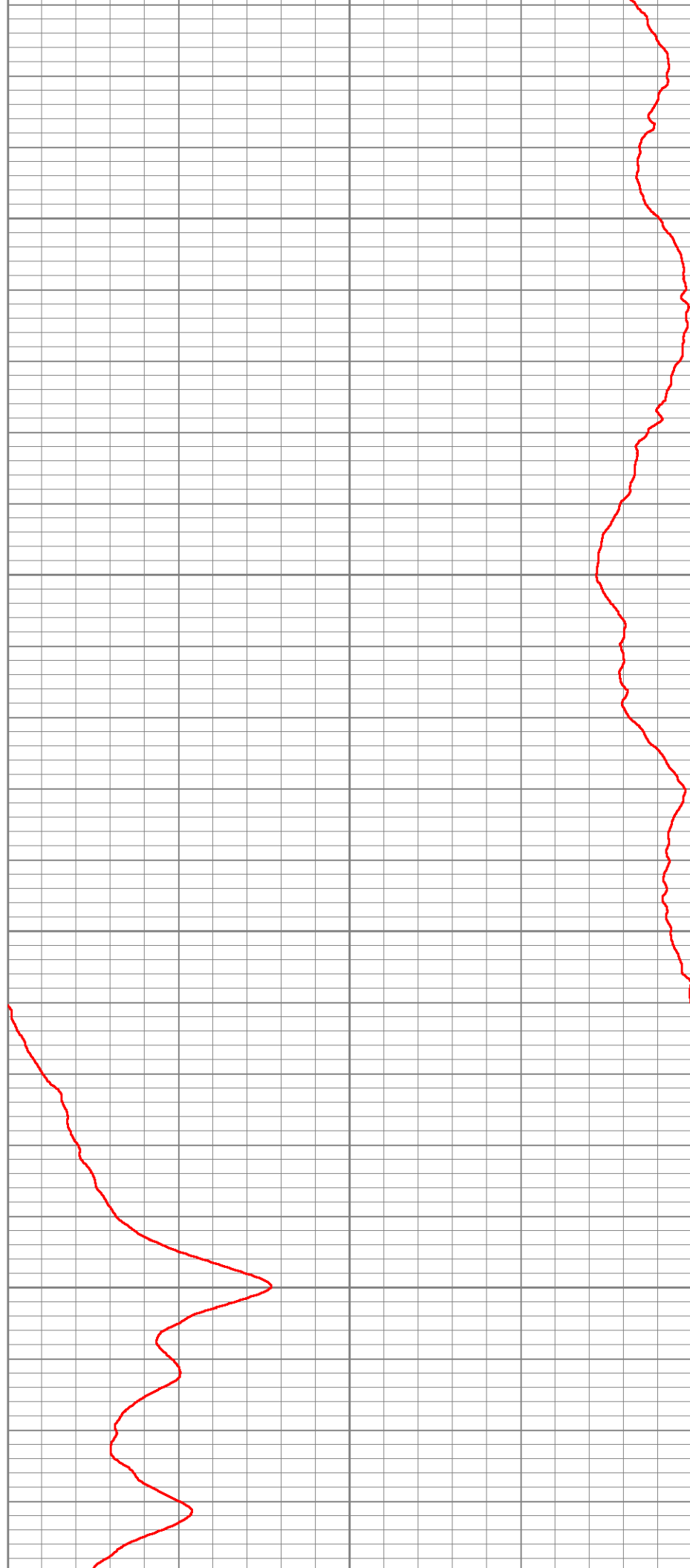
227.7

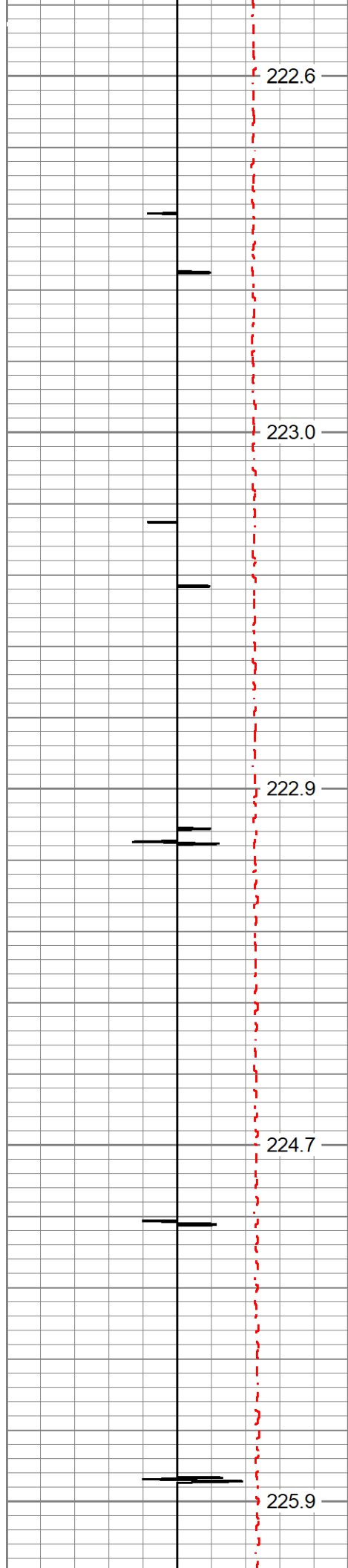
10250

10300

10350

10400





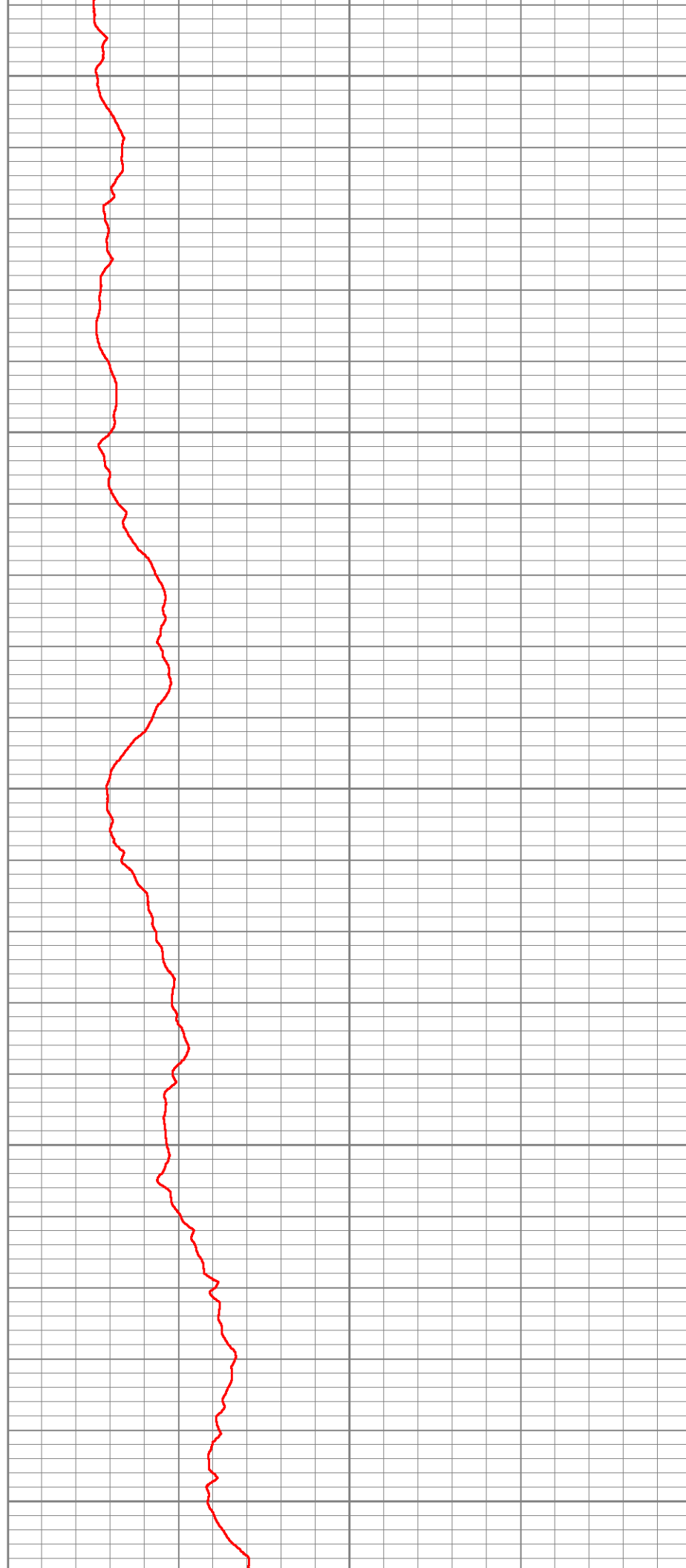
10450

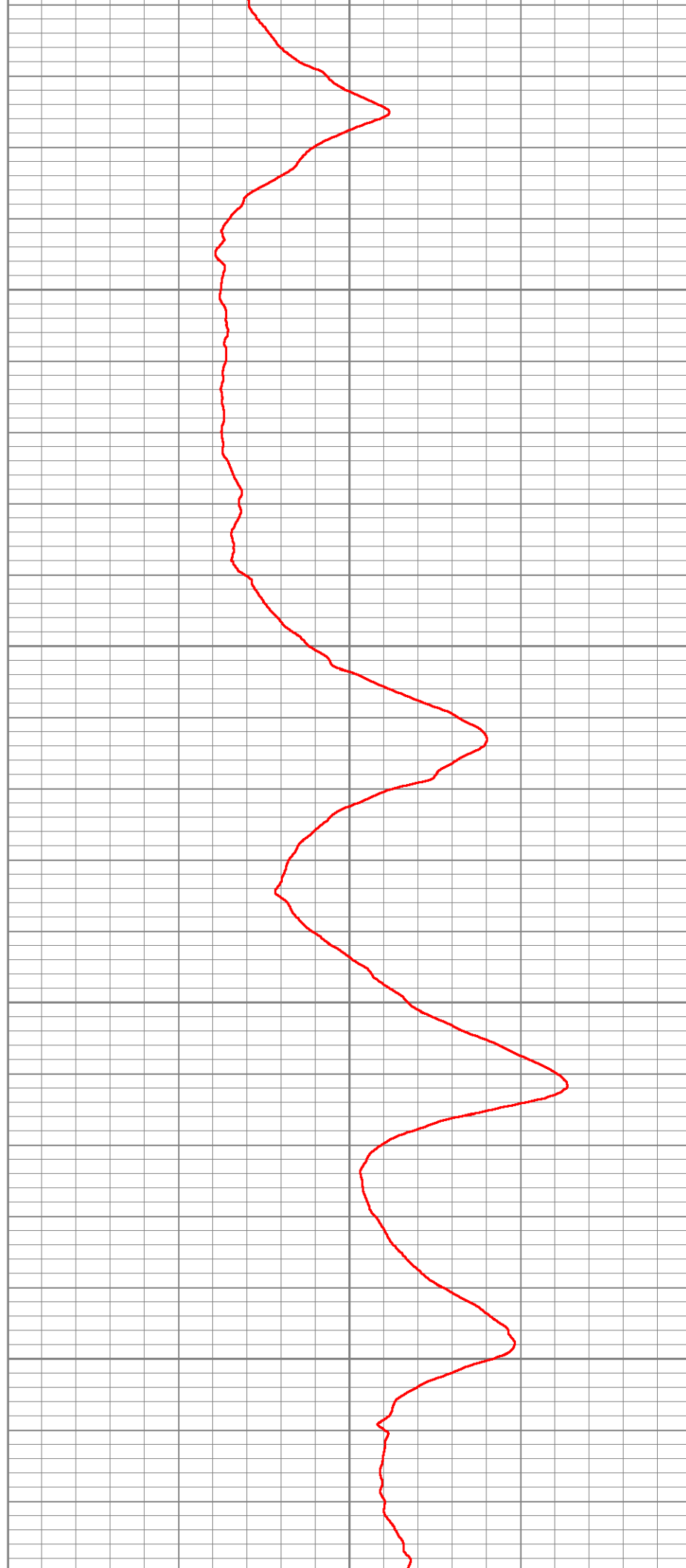
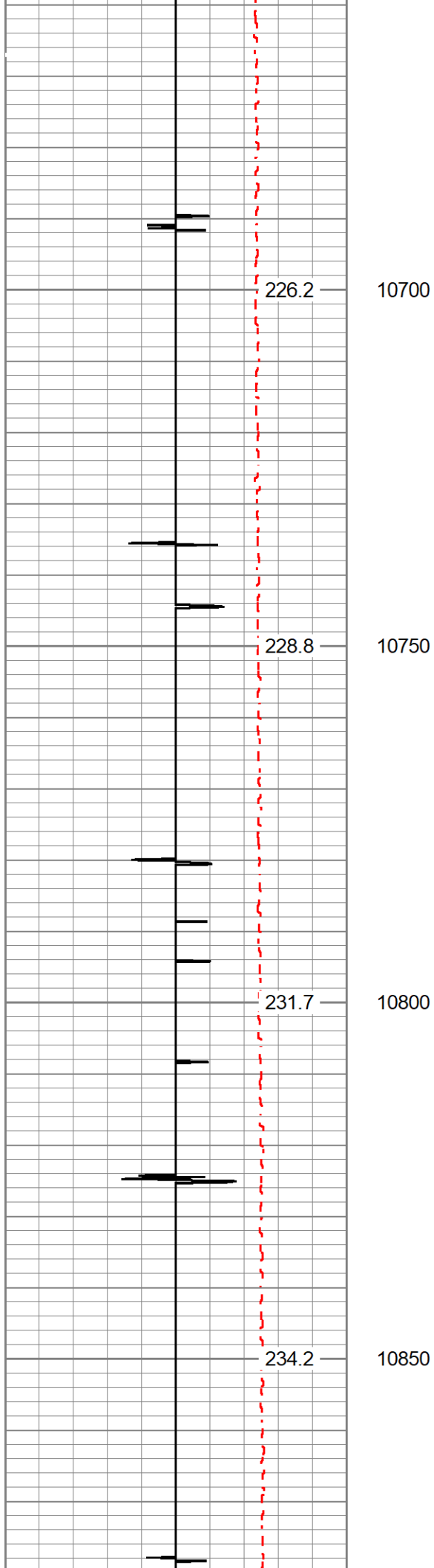
10500

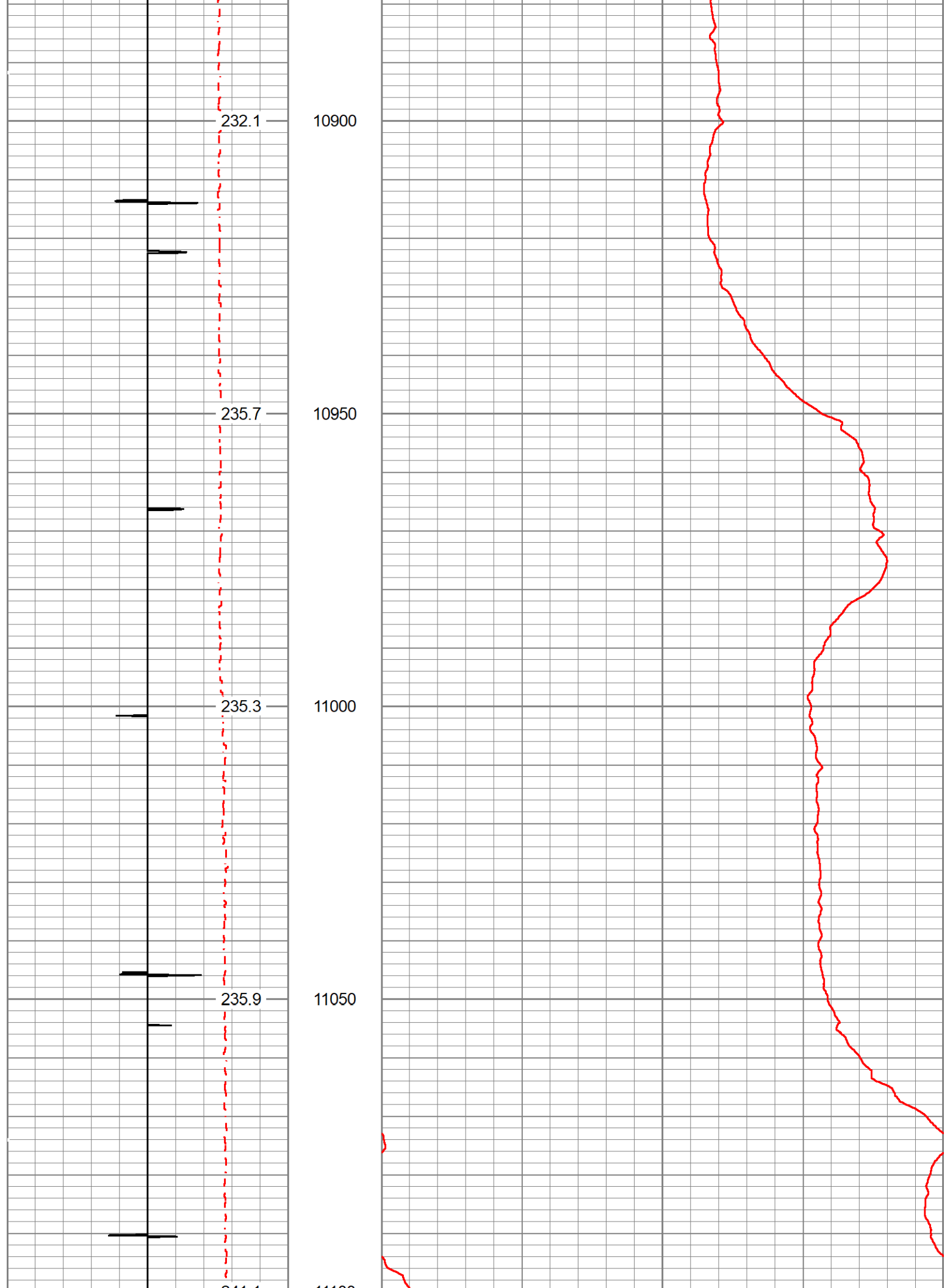
10550

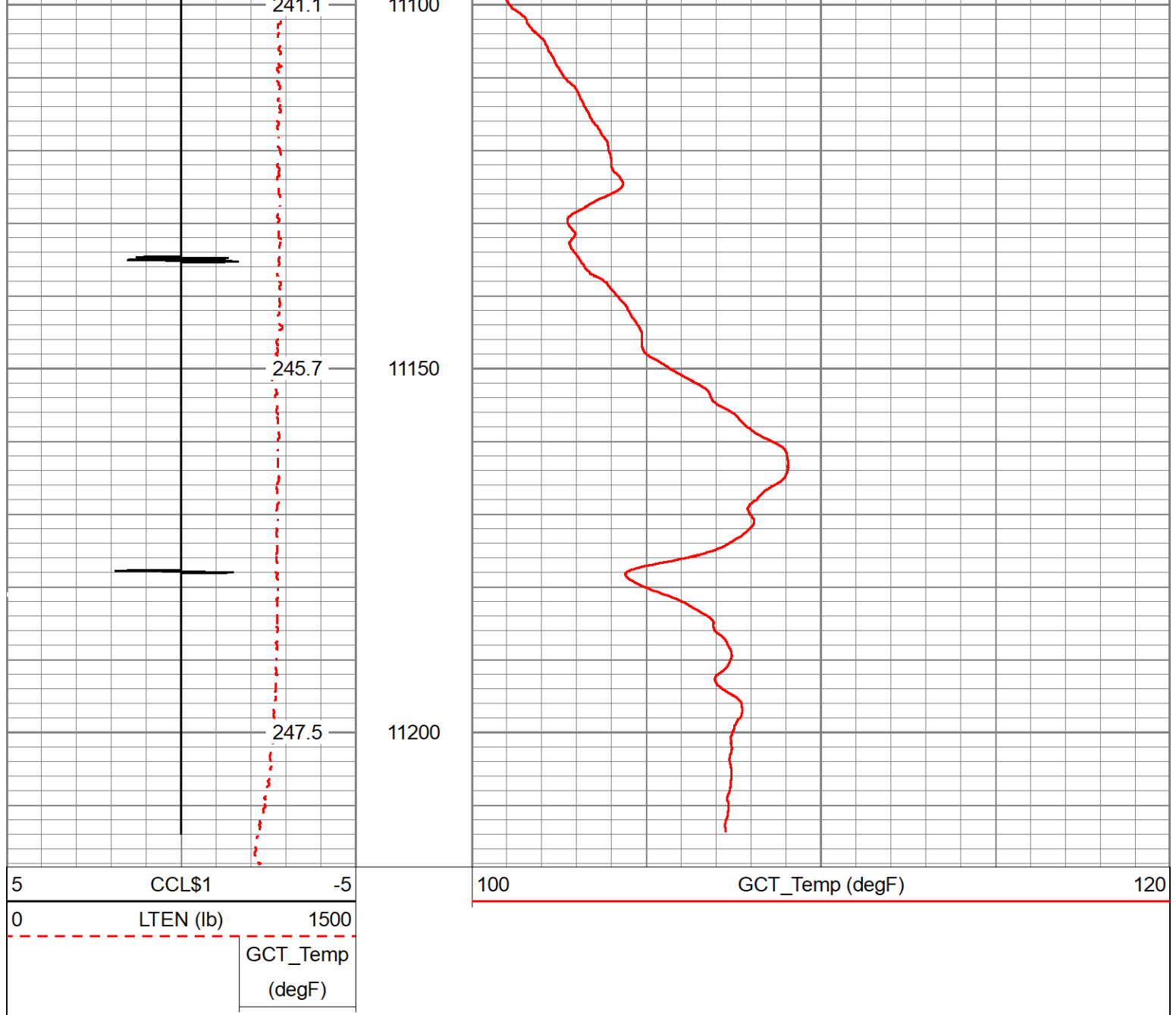
10600

10650











Calibration Report			
Database File	tep_federal wmc 312-20_temp_10-7-22.db		
Dataset Pathname	main		
Dataset Creation	Fri Oct 07 18:02:13 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	

	Low Road:	High Road:	Low Rd:	High Rd:	
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					
GCT_IntTemp	1.67					
GCT_ACCZ	0.00					
GCT_ACCY	0.00					
GCT_ACCX	0.00					
GCT_FMWR	0.00					
Error_Ct	0.00					
			GCacc-GCTacc_6-Pin-Base (110255) Probe 2.75" Gamma Ray - CCL w/ Temp and 6 Pin Bottom	5.00	2.75	
		Dataset:	tep_federal wmc 312-20_temp_10-7-22.db: field/well/run1/main			
		Total length:	5.00 ft			
		Total weight:	lb			
		O.D.:	2.75 in			

Company	TEP Rocky Mountain LLC		
Well	Federal WMC 312-20		
Field	Rulison		
County	Garfield	State	Colorado
		Temperature Casing Collar Log	