



**Cement Bond
Variable Density Log
W/ Gamma Ray/CCL**

Company		Bonanza Creek Energy					
Well		Park T-P-4HC					
Field		Wattenberg					
County		Weld					
State		Colorado					
Location:		APL # : 05-123-38606					
SHL: 439' FSL & 1056' FEL SE/SE		Other Services NONE					
SEC 4 TWP 4N RGE 63W		Elevation					
Permanent Datum		Ground Level					
Log Measured From		Kelly Bushing 16' APD					
Drilling Measured From		Kelly Bushing					
Date		April 14, 2014					
Run Number		1					
Depth Driller		11191'					
Depth Logger		6844'					
Bottom Logged Interval		6832'					
Top Log Interval		Surface					
Open Hole Size		8.75					
Type Fluid		Fresh Water					
Density / Viscosity		8.33					
Max. Recorded Temp.		N/A					
Estimated Cement Top		2570'					
Time Well Ready		1030					
Time Logger on Bottom		1100					
Equipment Number		13033					
Location		Brighton					
Recorded By		Nelson Manchaca					
Witnessed By		T. Guana					
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#	0	787'			
Prot. String							
Production String	7"	26#	0	6851'			
Liner							

<<< 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

Primary Log on this Well

Main Pass and Repeat Pass logged with 0 PSI

Logged from 16' Kelly Bushing

Logging Speed Requested by Company

Thank You For using Allied Wireline Services
(303) 659-4609

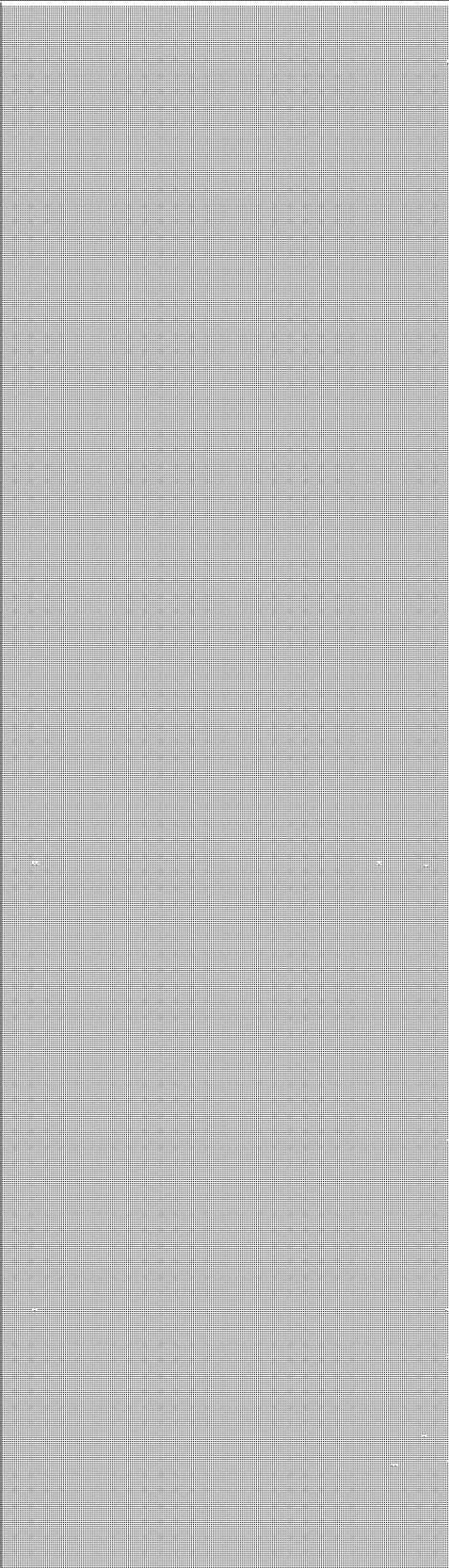
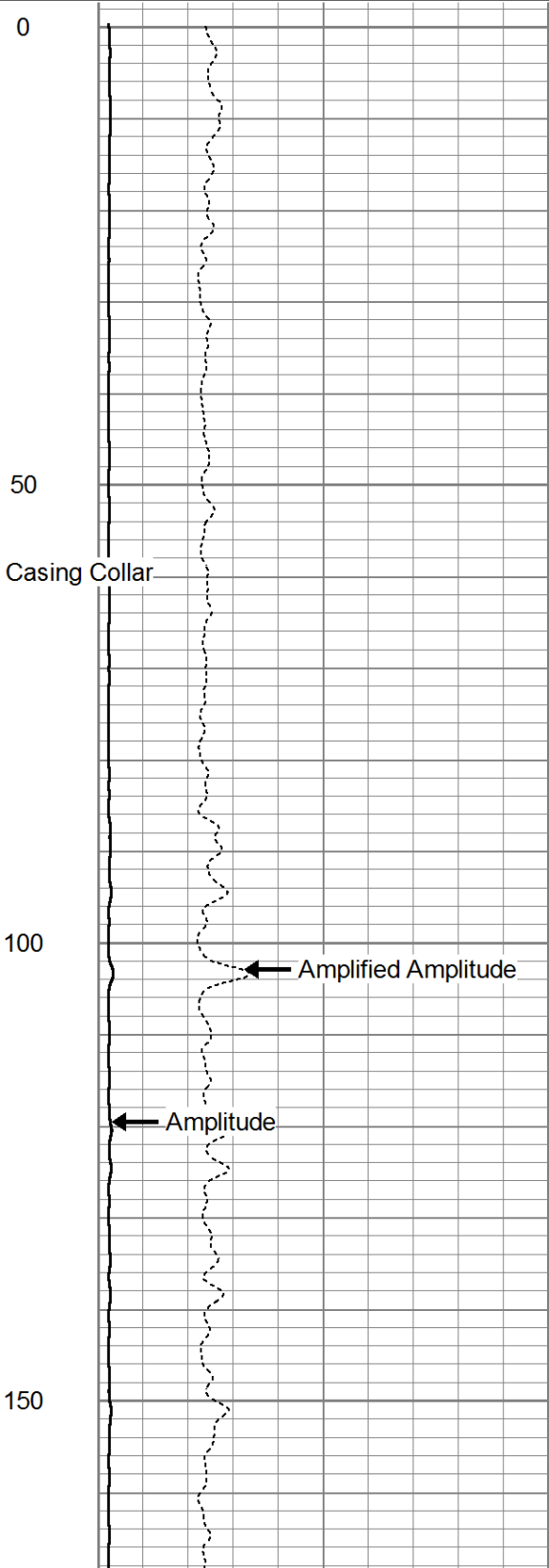
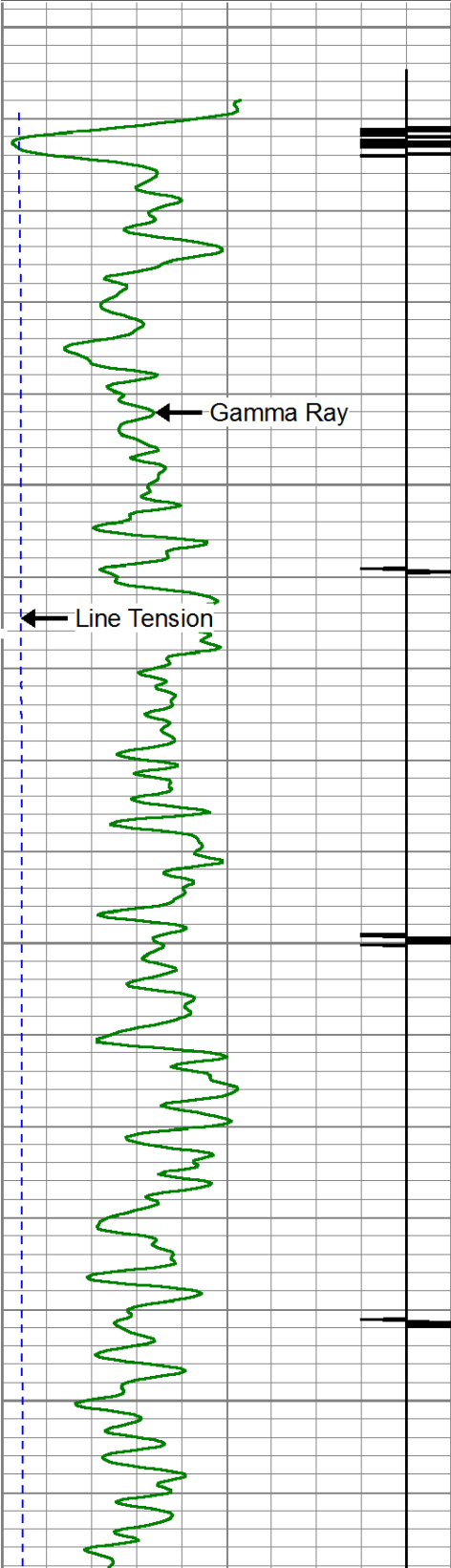


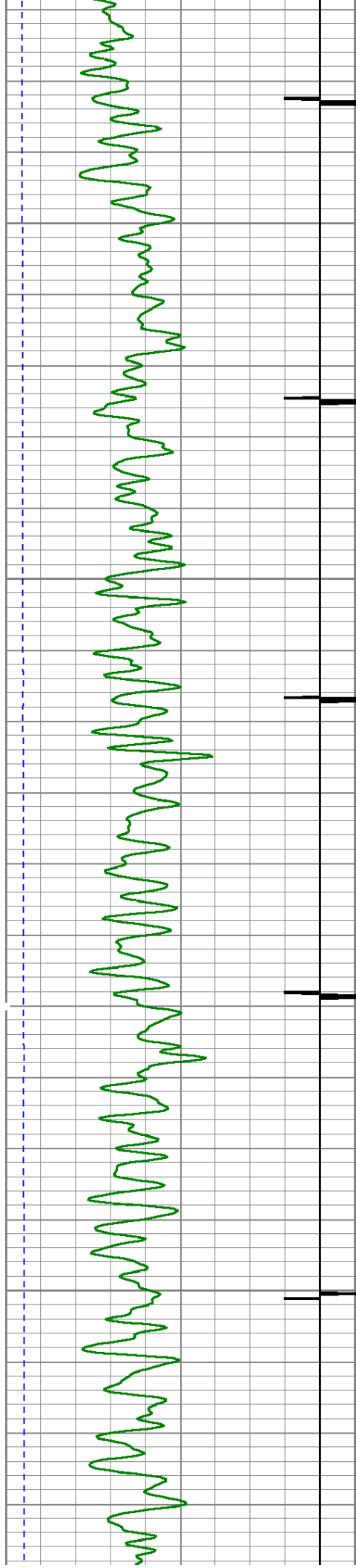
Main Pass (0 P.S.I.)

Database File: park t-p-4hc_cbl.db
Dataset Pathname: pass4
Presentation Format: cblprobe
Dataset Creation: Mon Apr 14 11:17:49 2014 by Log 0
Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

0	Amplitude (mV)	100	200	Variable Density	1200
0	Amplified Amplitude (mV)	10			



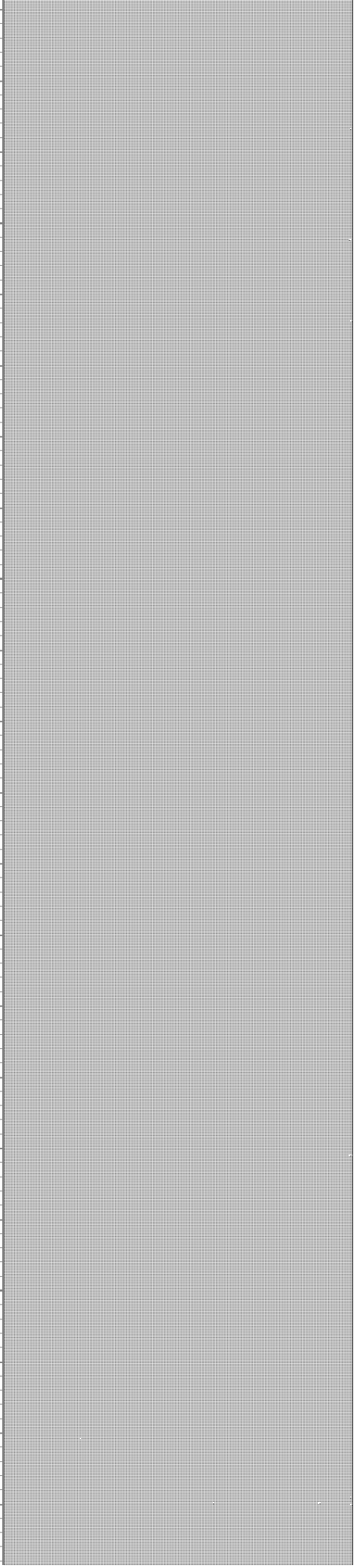
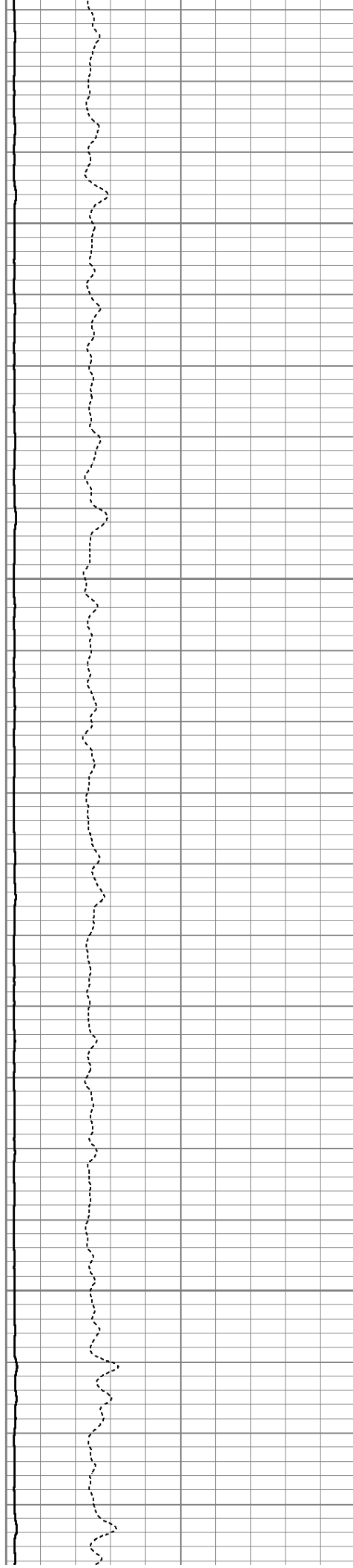


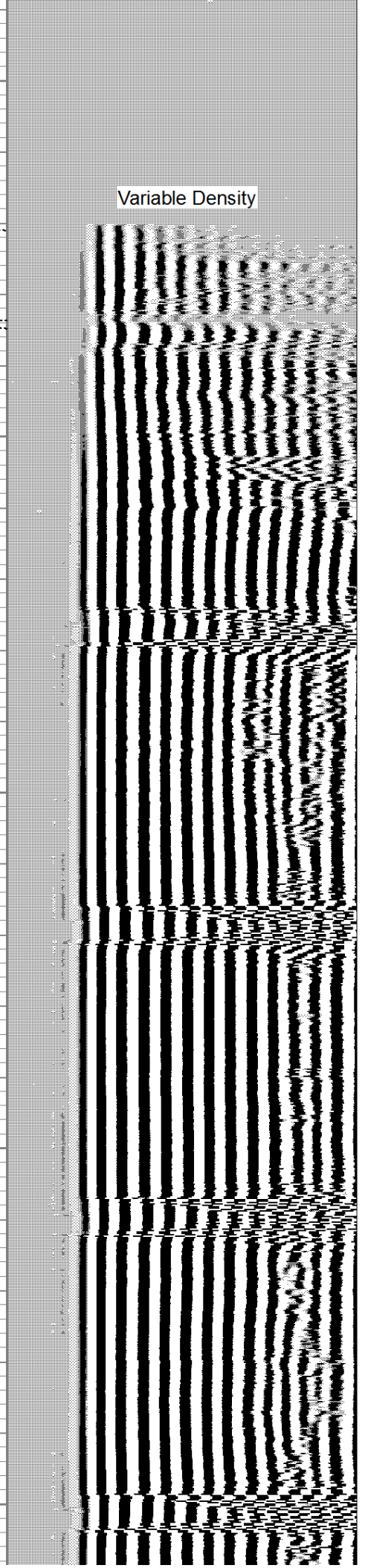
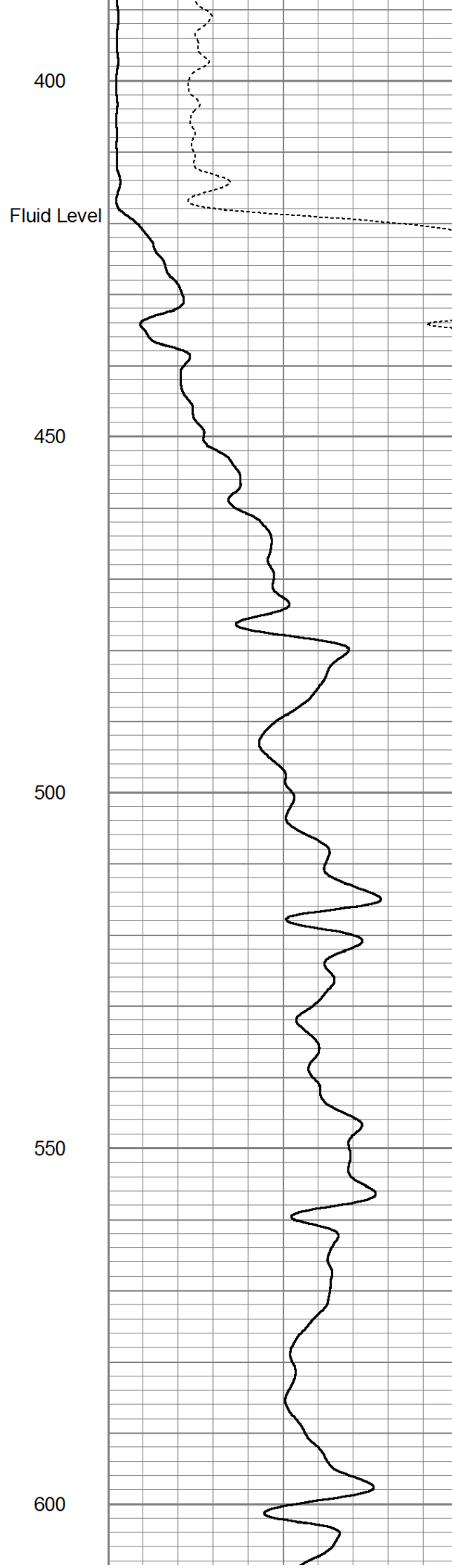
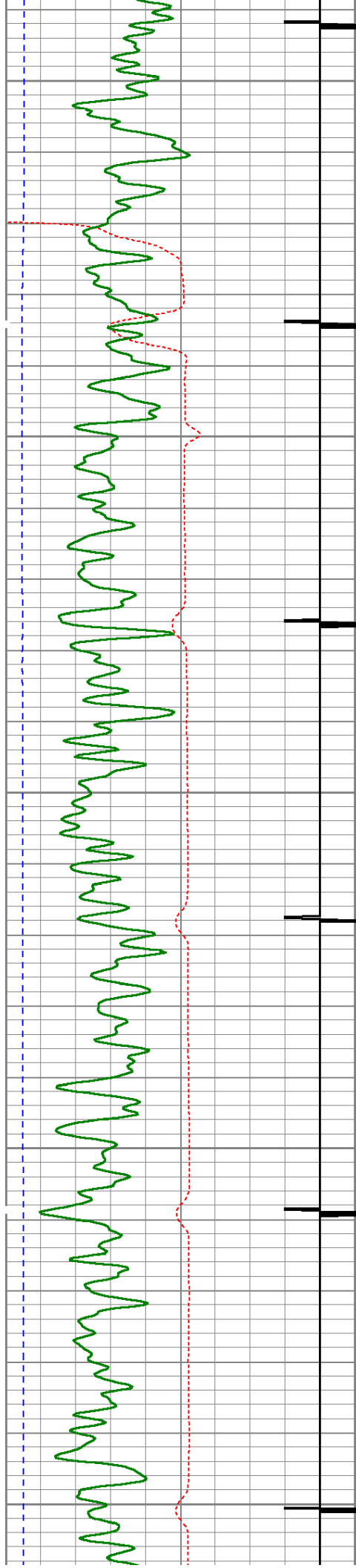
200

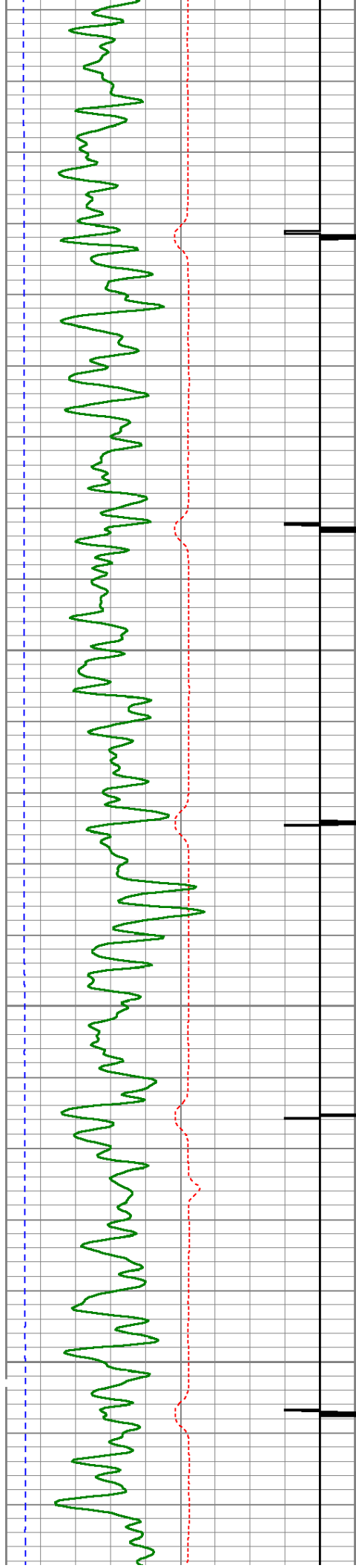
250

300

350





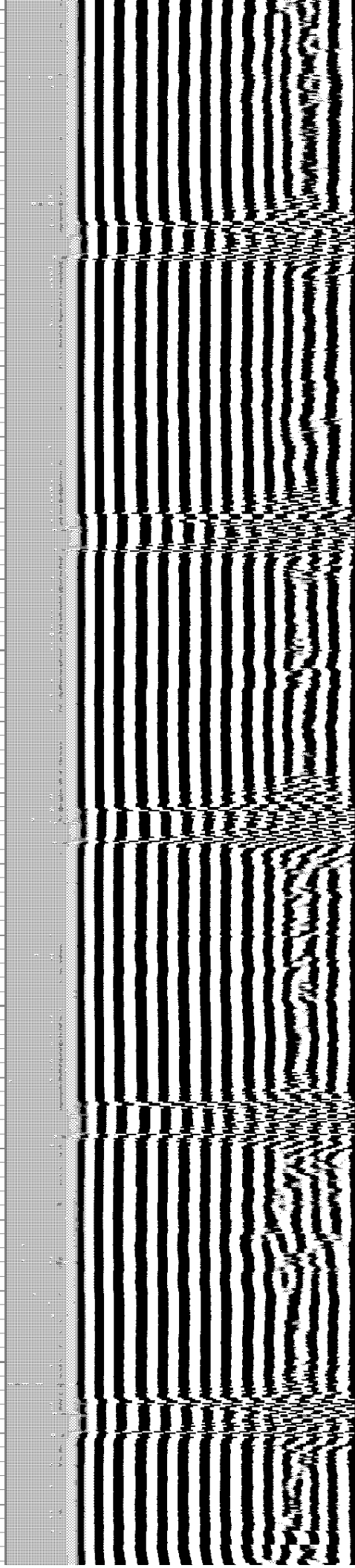
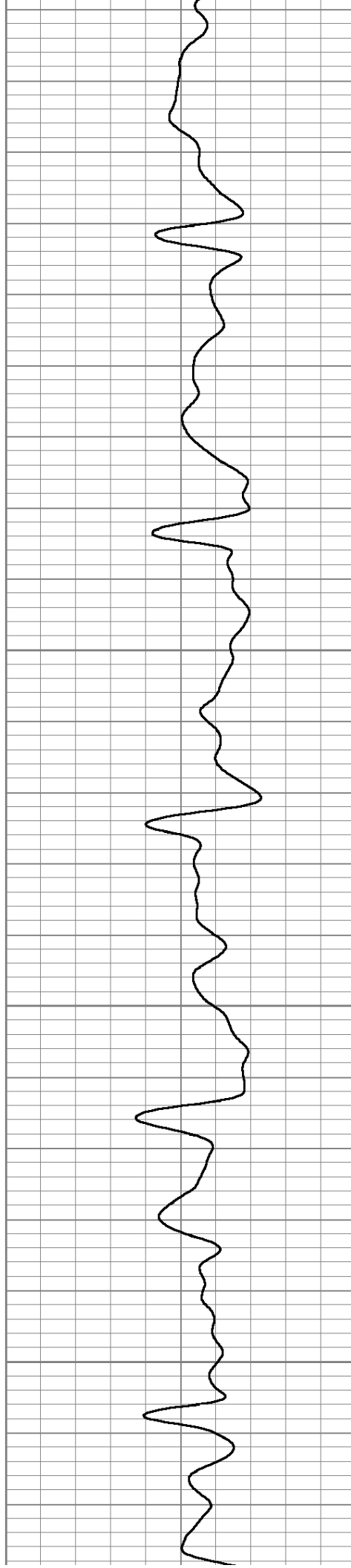


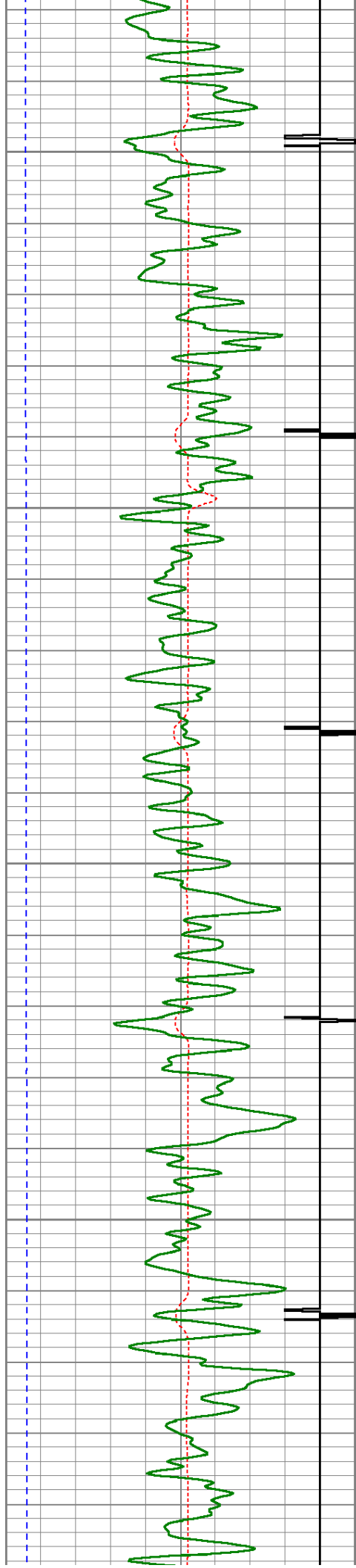
650

700

750

800



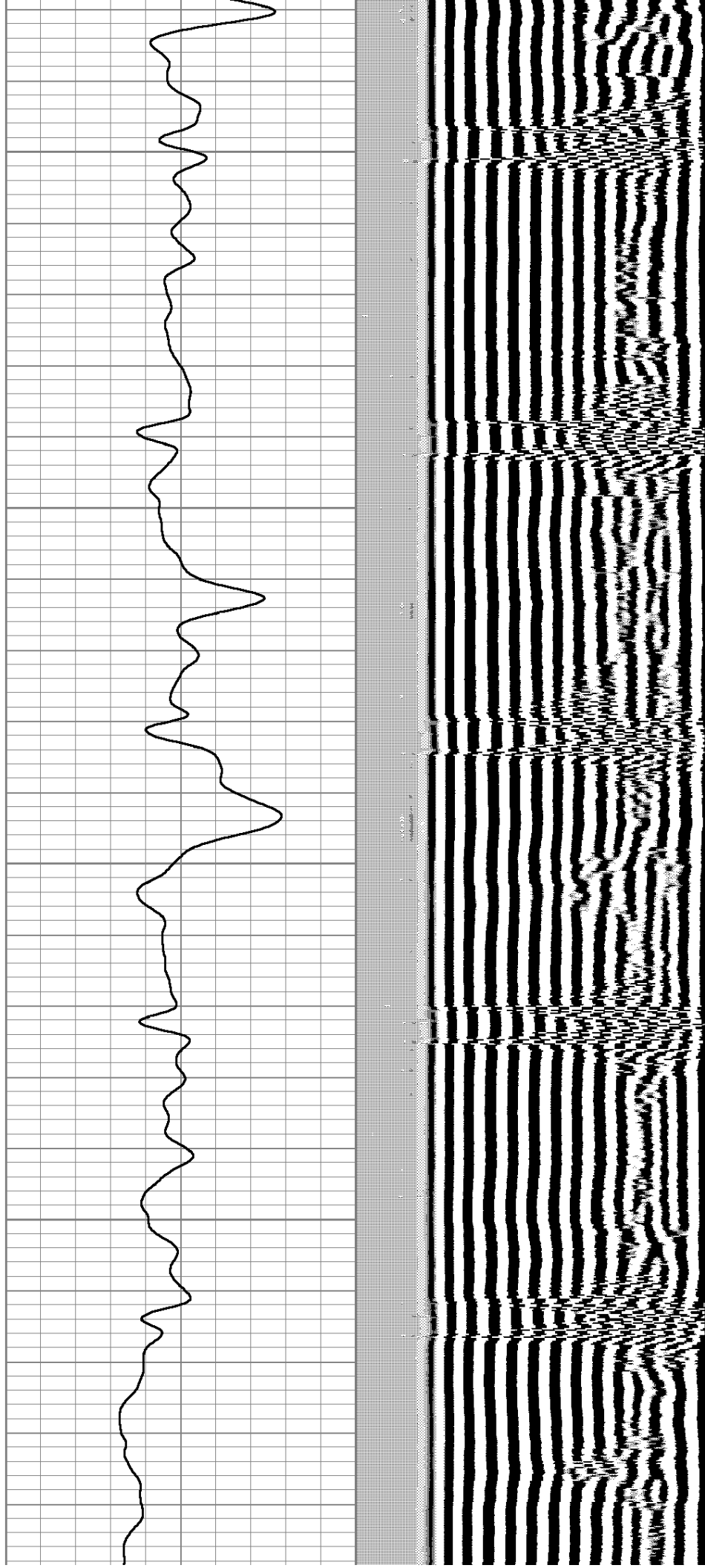


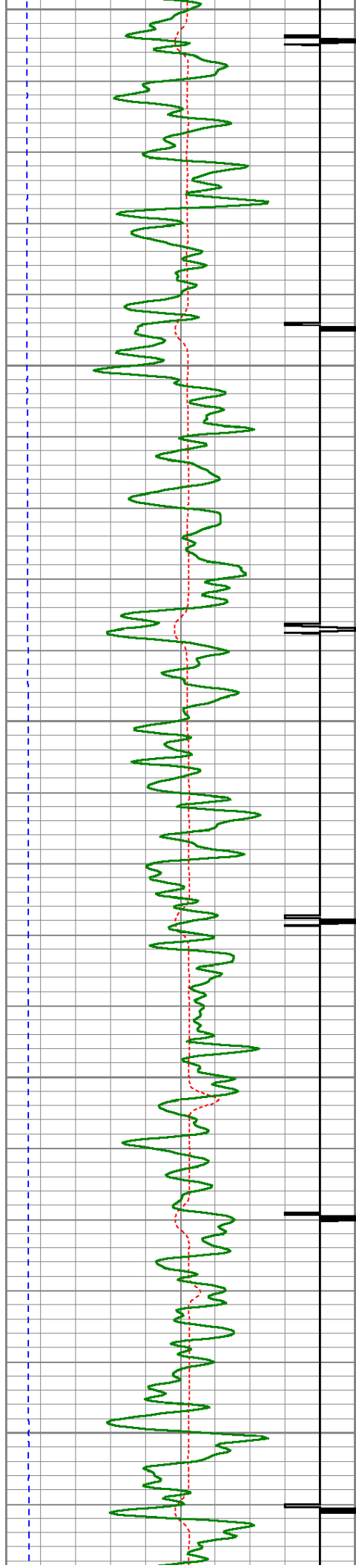
850

900

950

1000





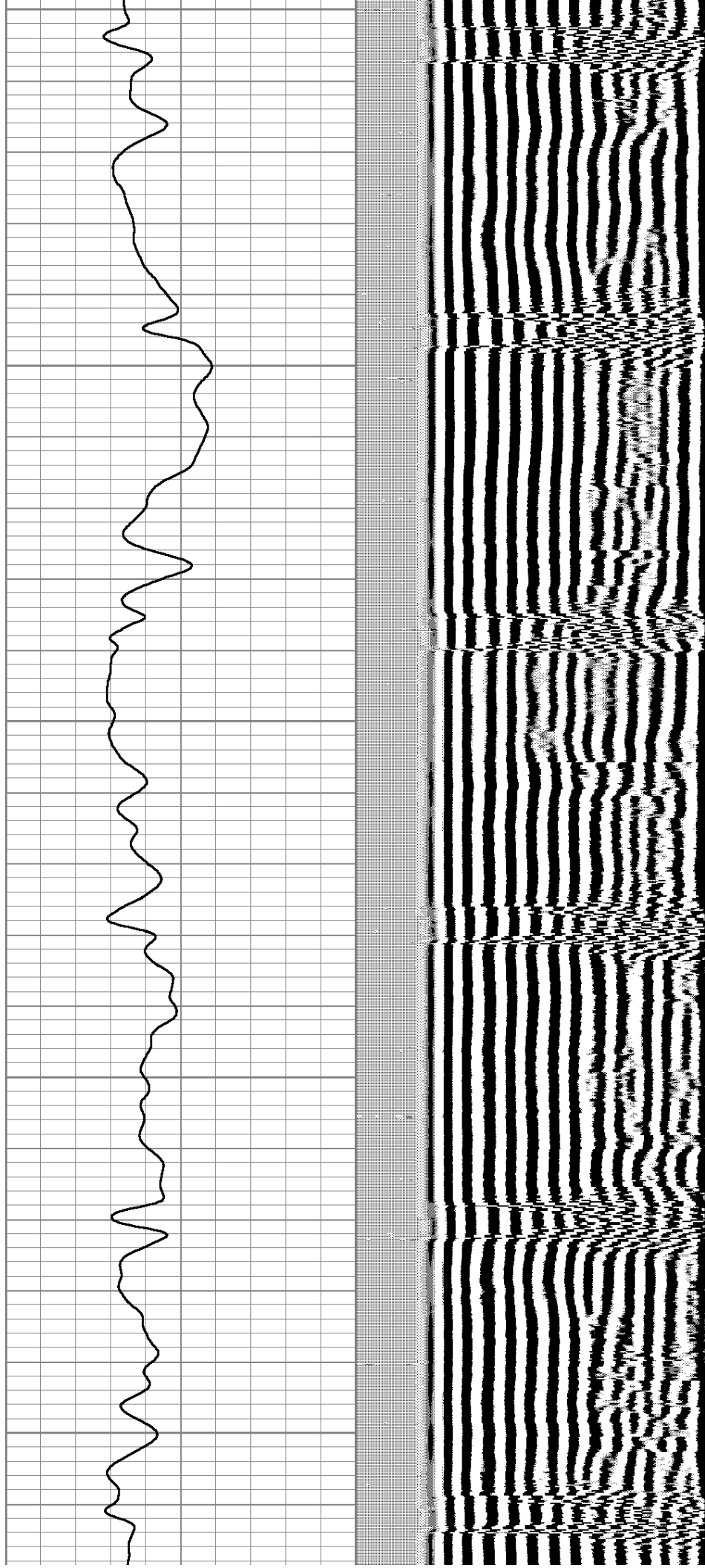
1050

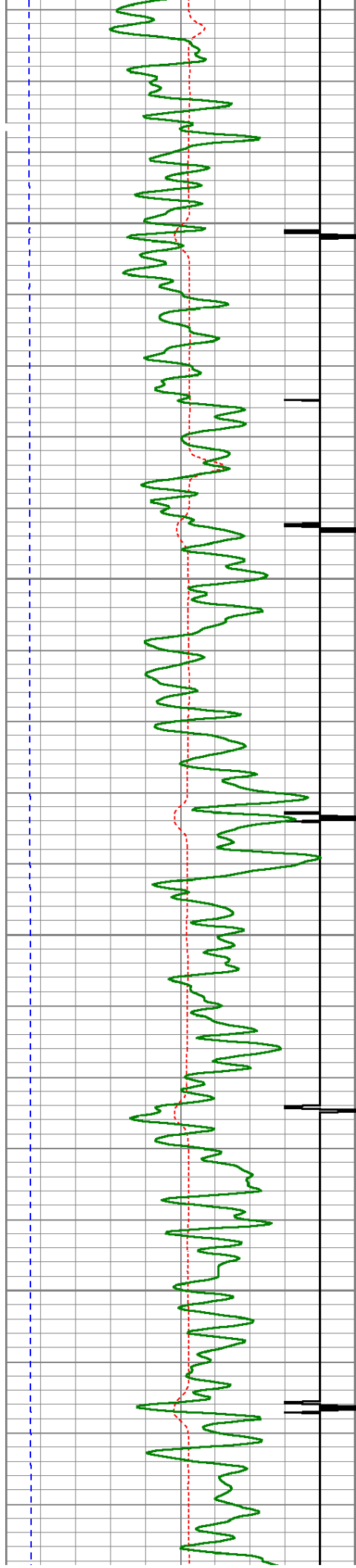
1100

1150

1200

1250



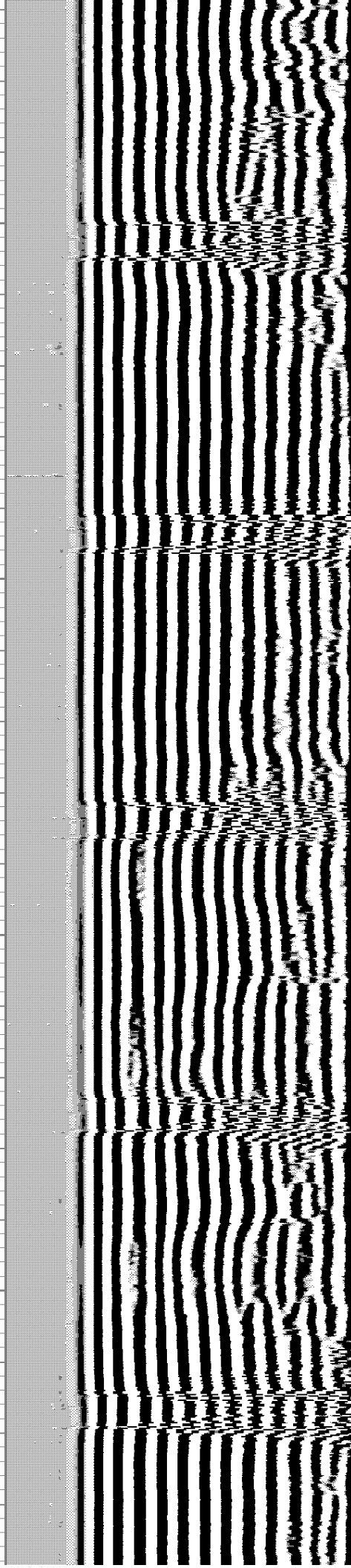
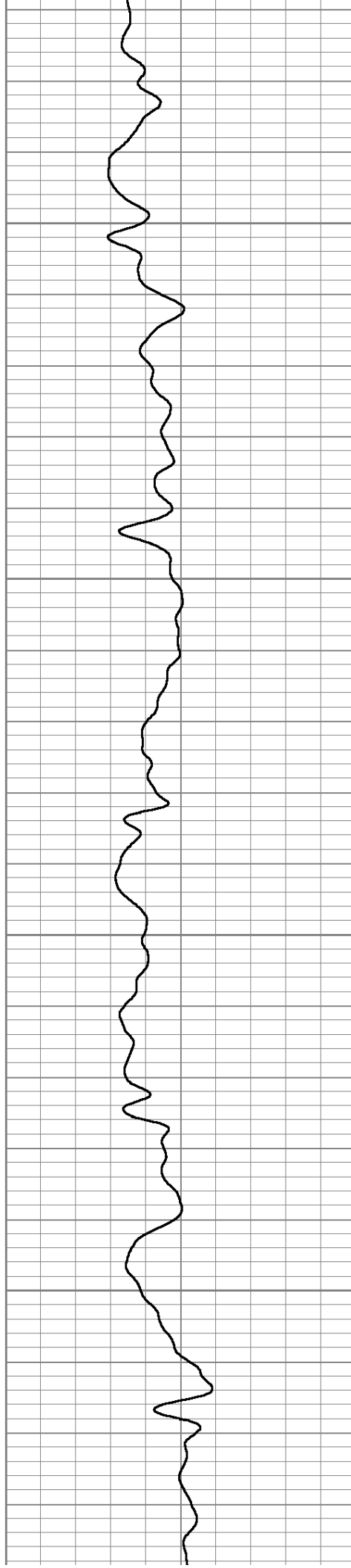


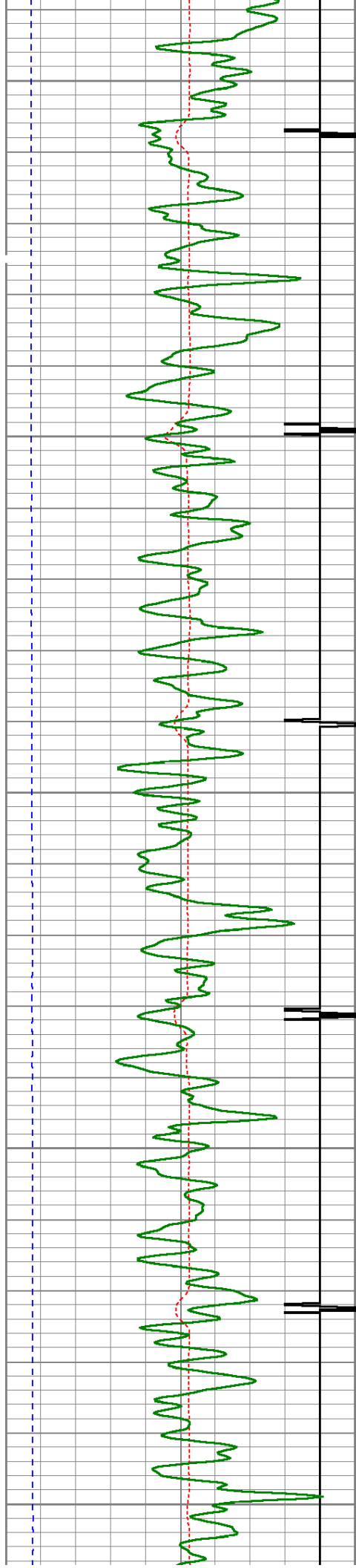
1300

1350

1400

1450





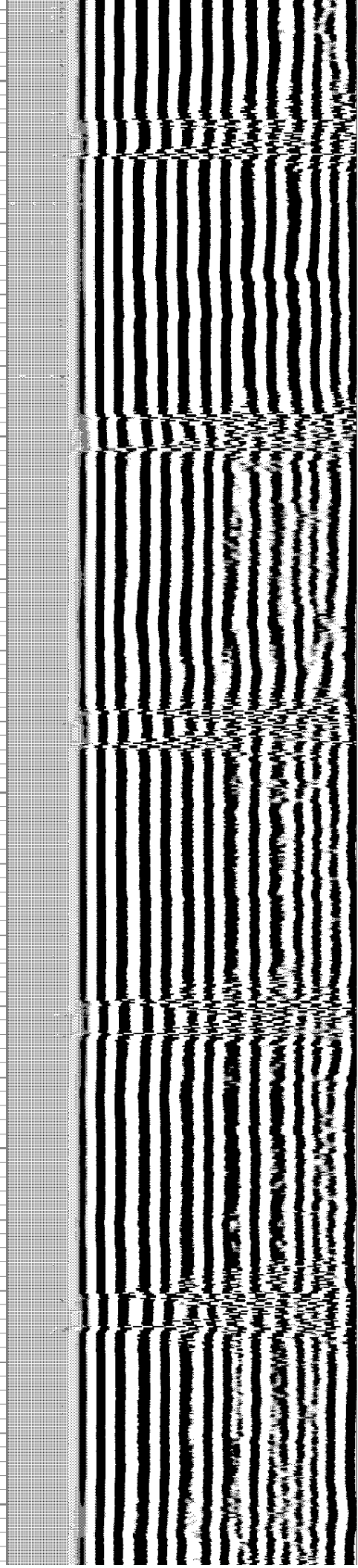
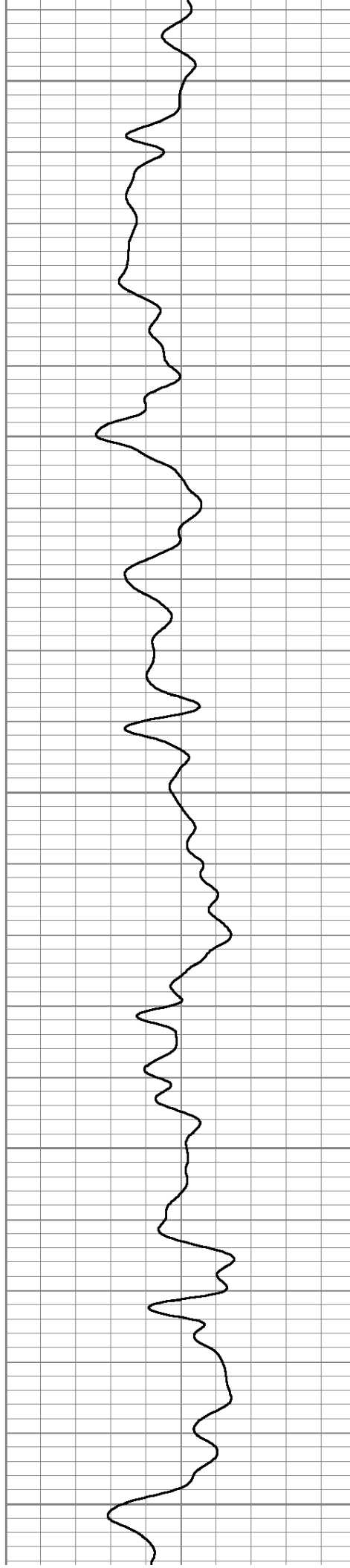
1500

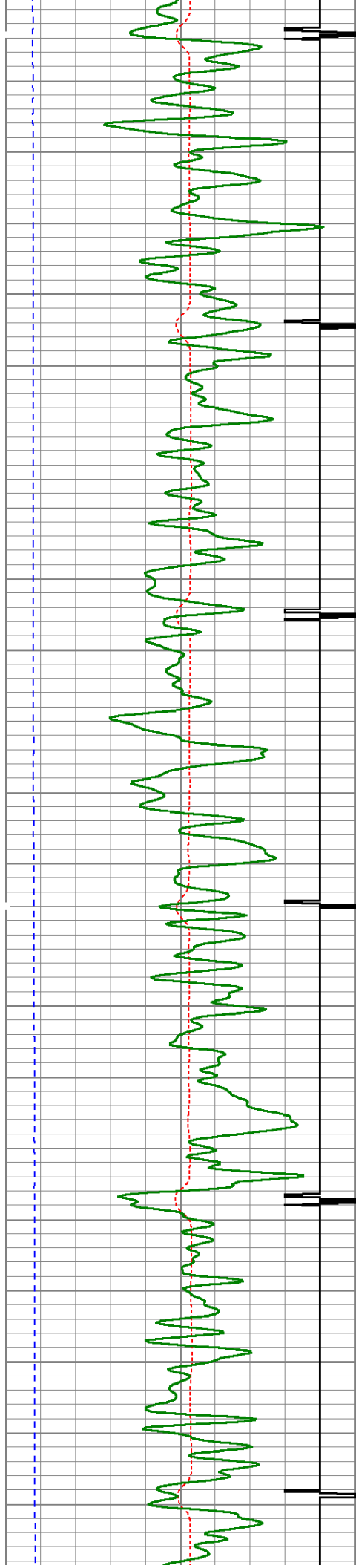
1550

1600

1650

1700



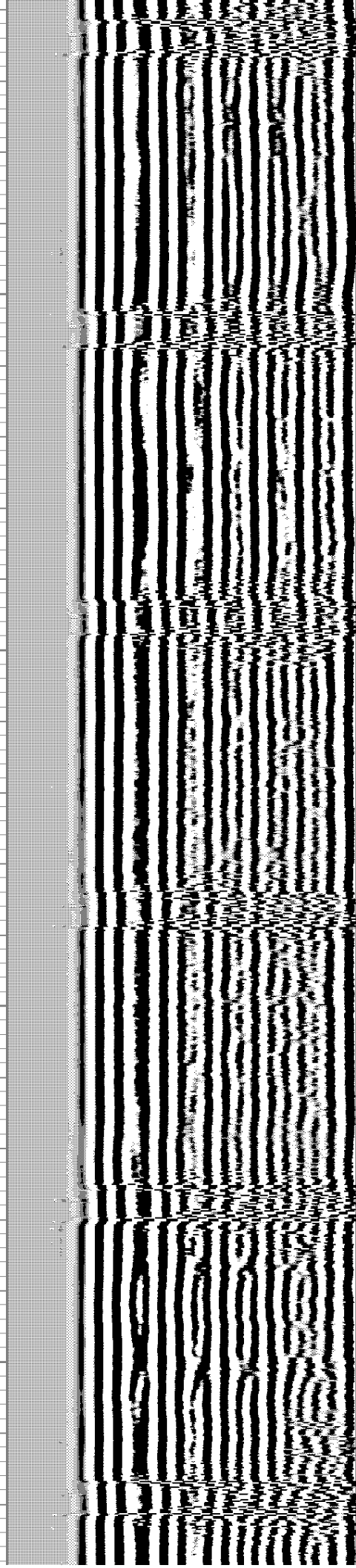
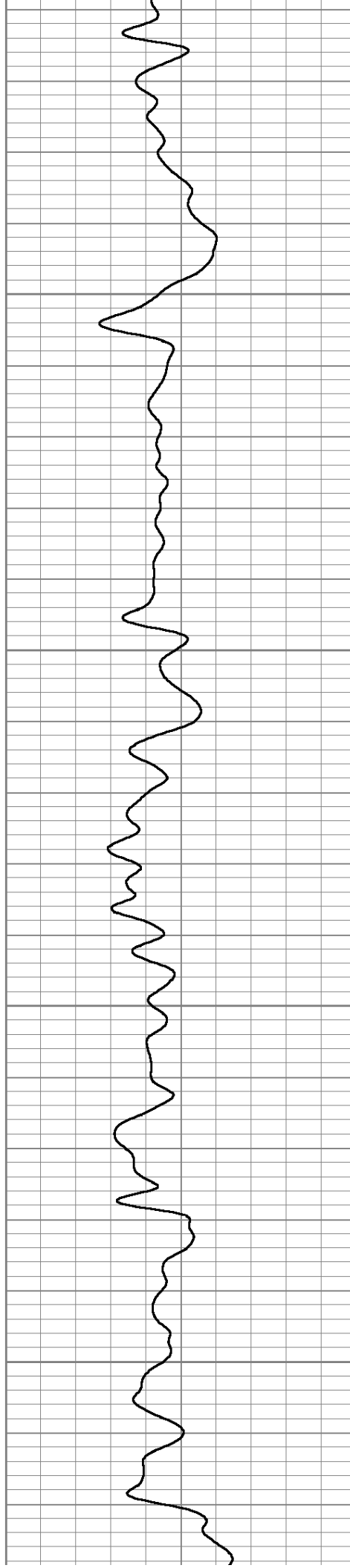


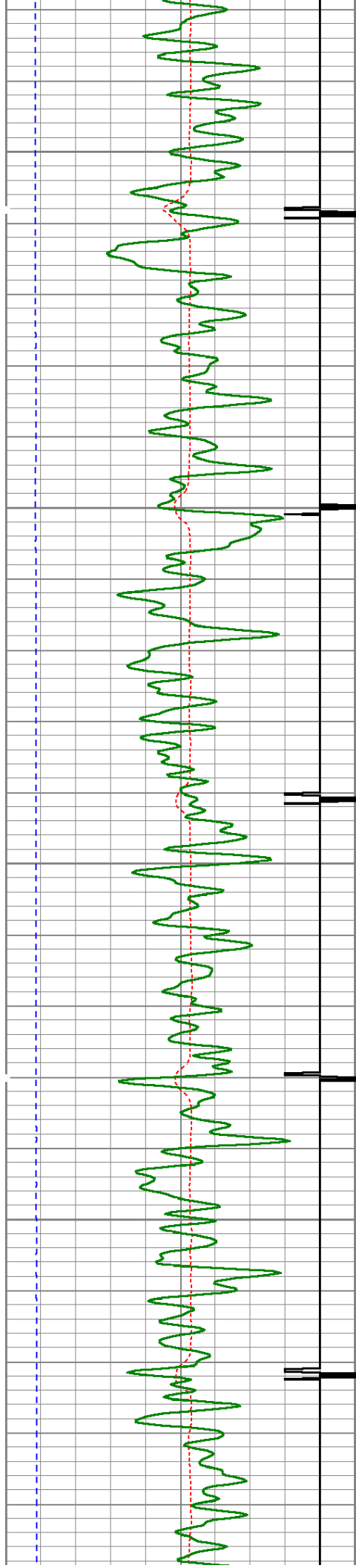
1750

1800

1850

1900



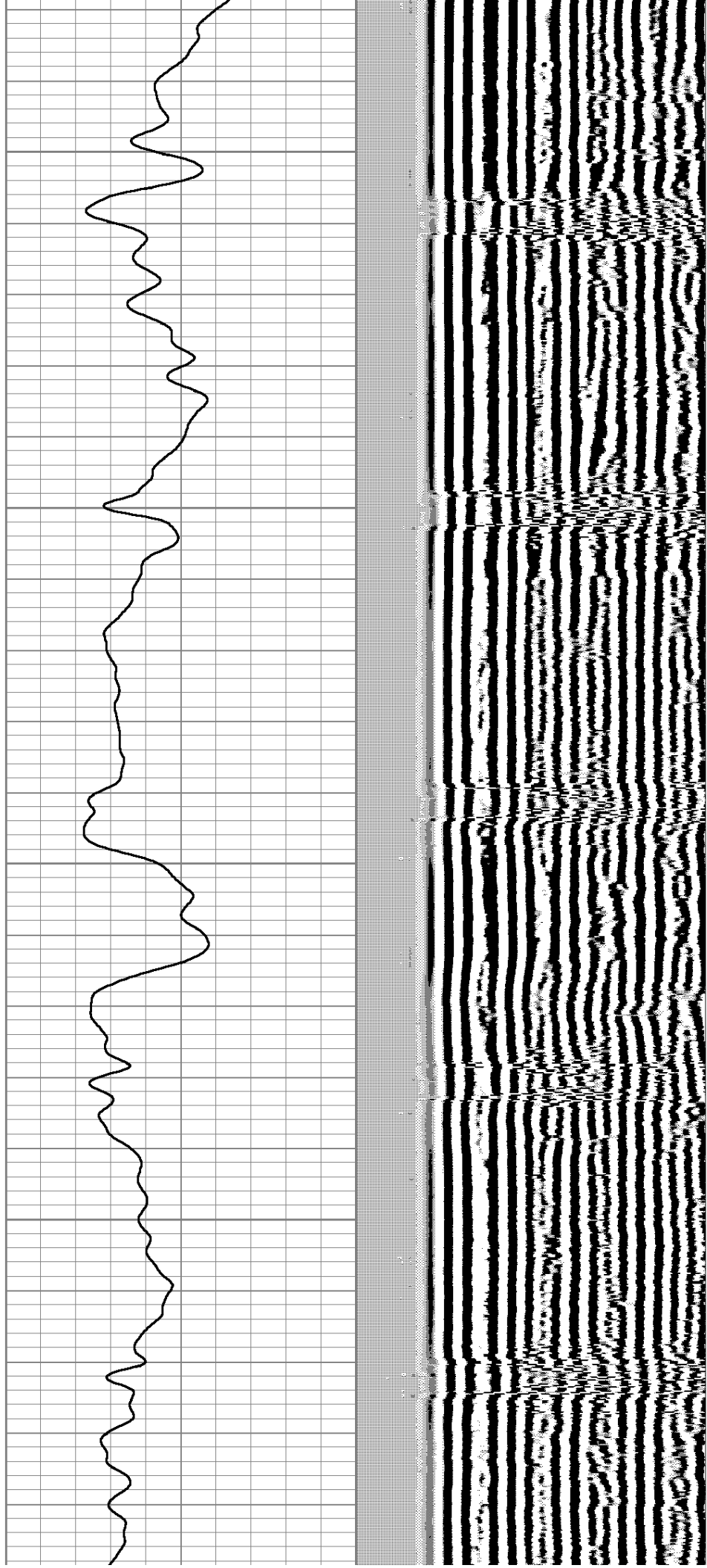


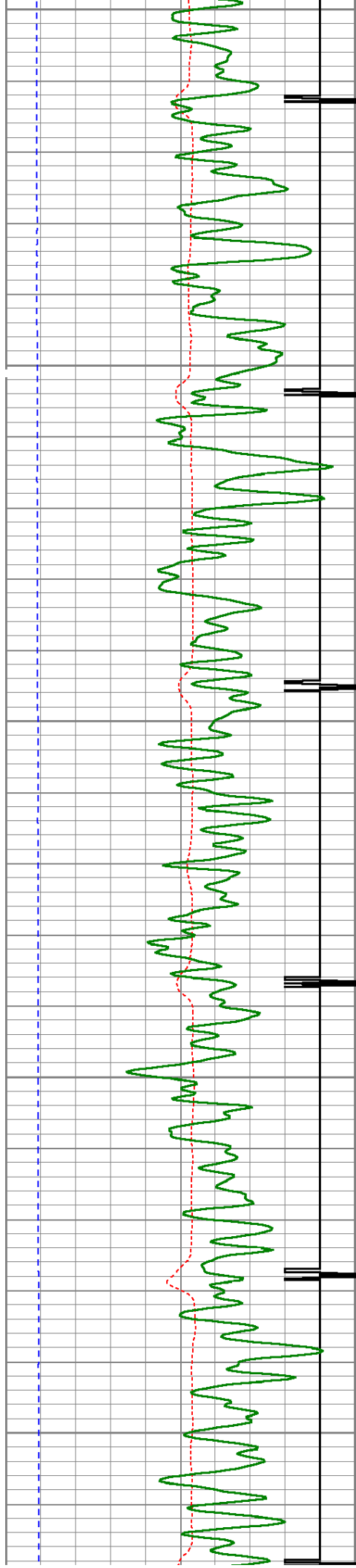
1950

2000

2050

2100





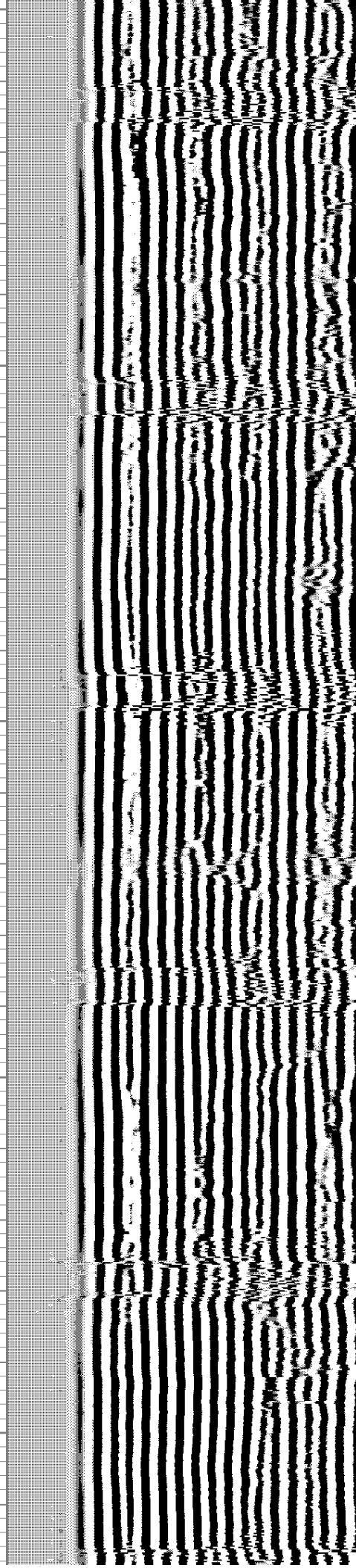
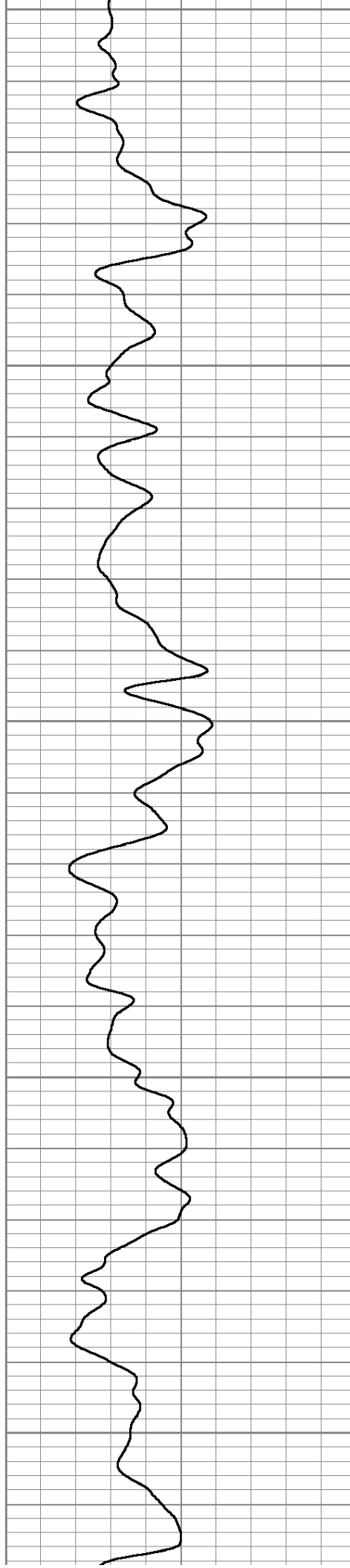
2150

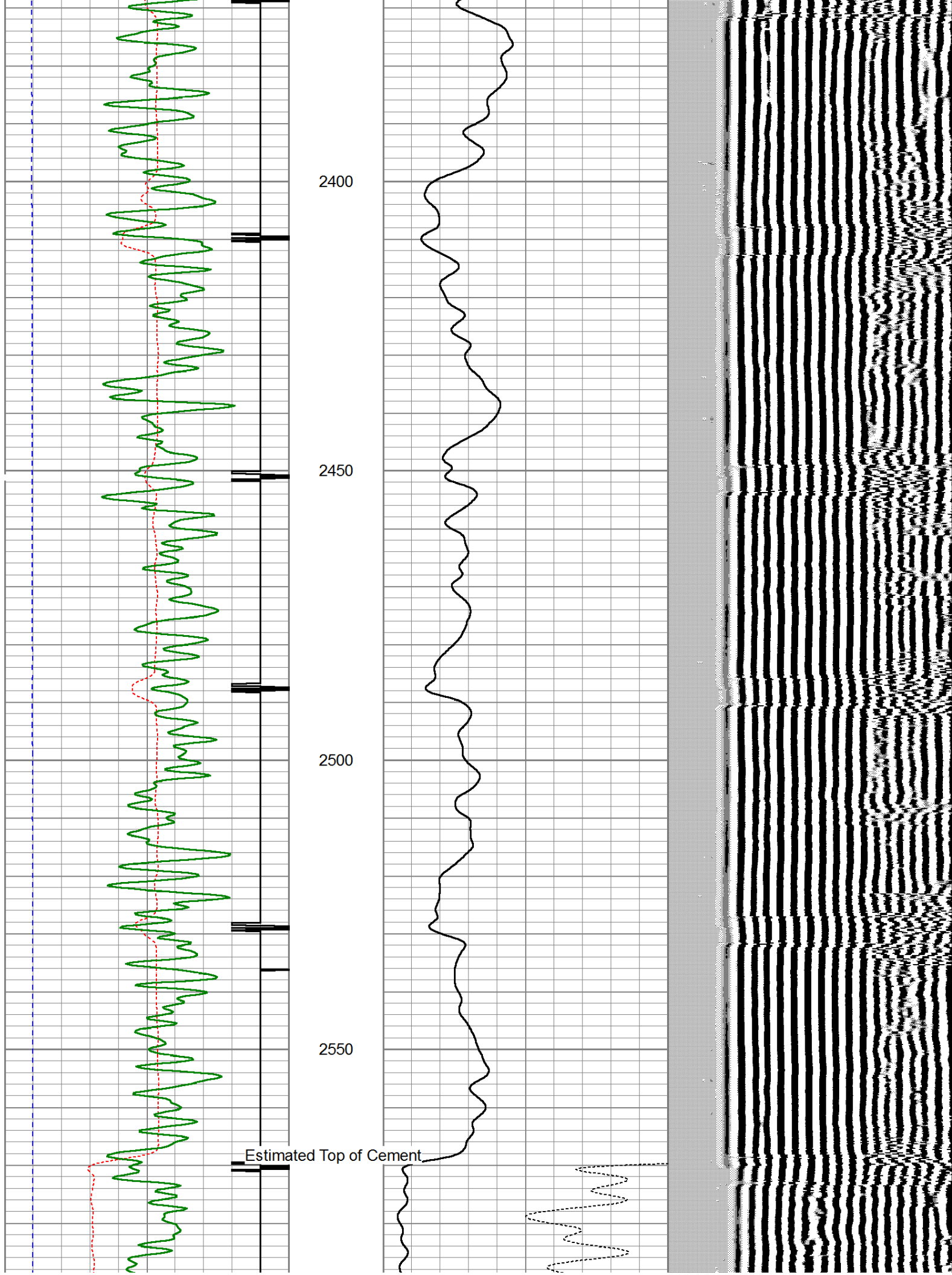
2200

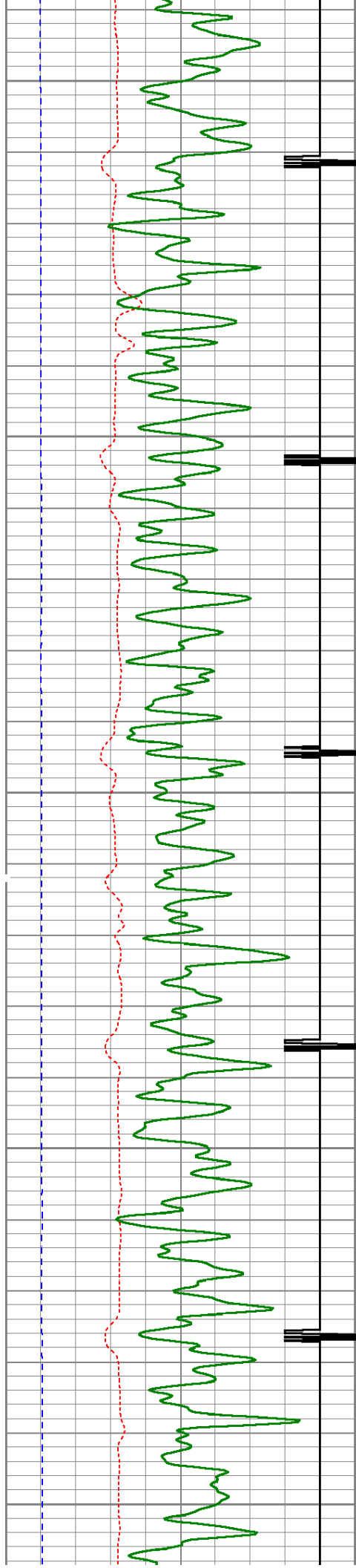
2250

2300

2350







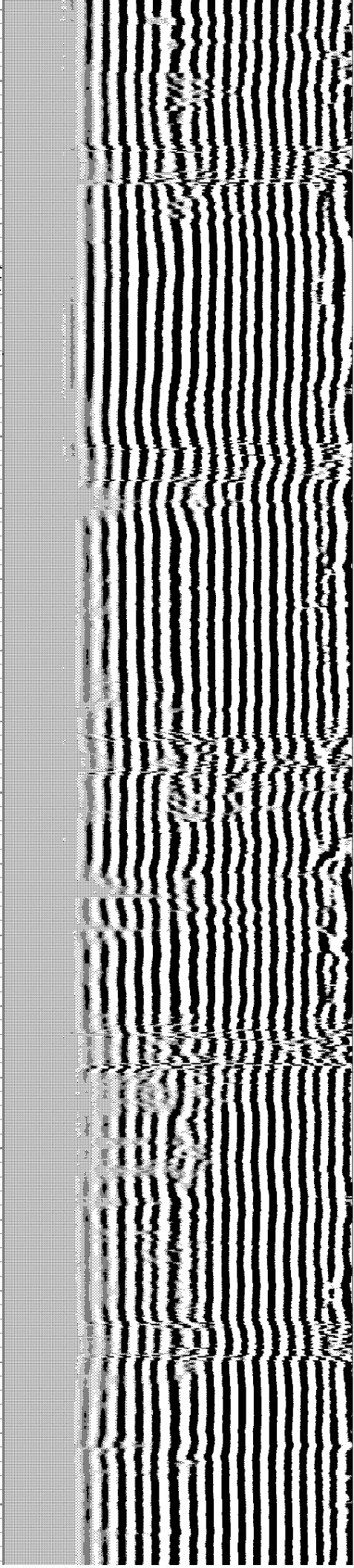
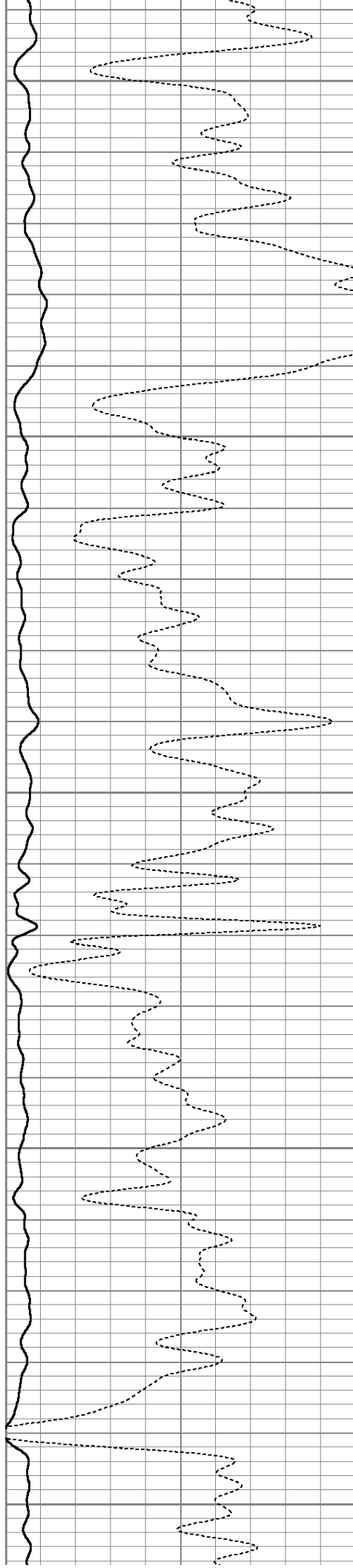
2600

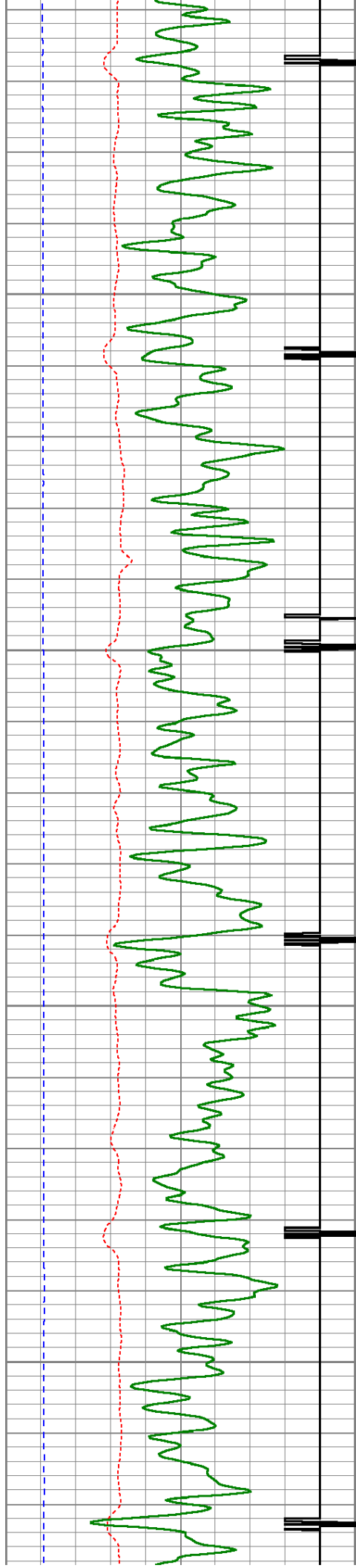
2650

2700

2750

2800



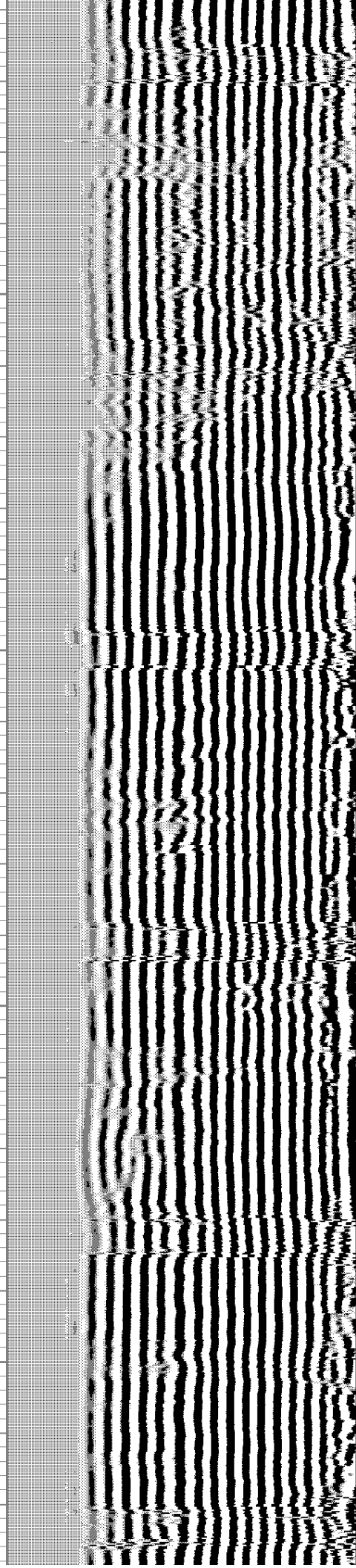
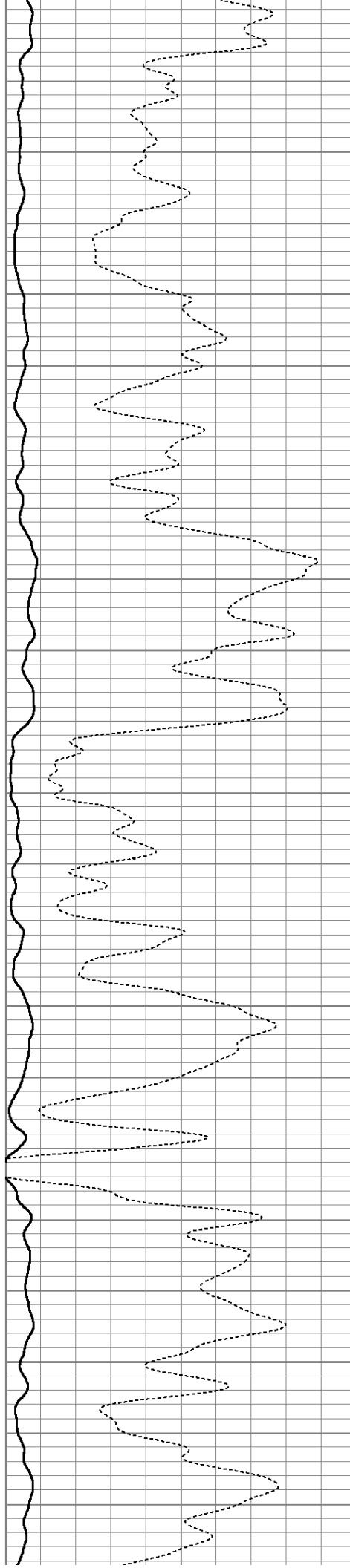


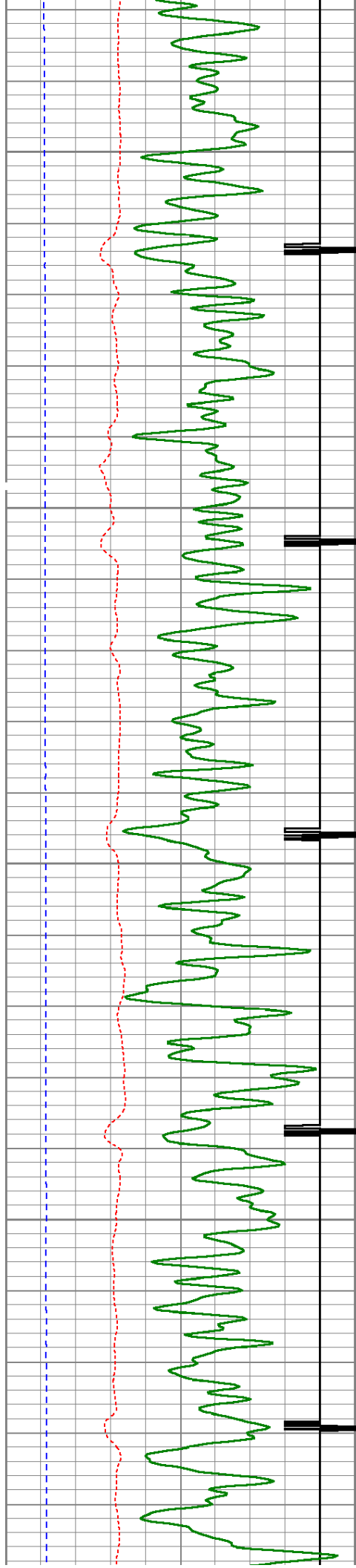
2850

2900

2950

3000



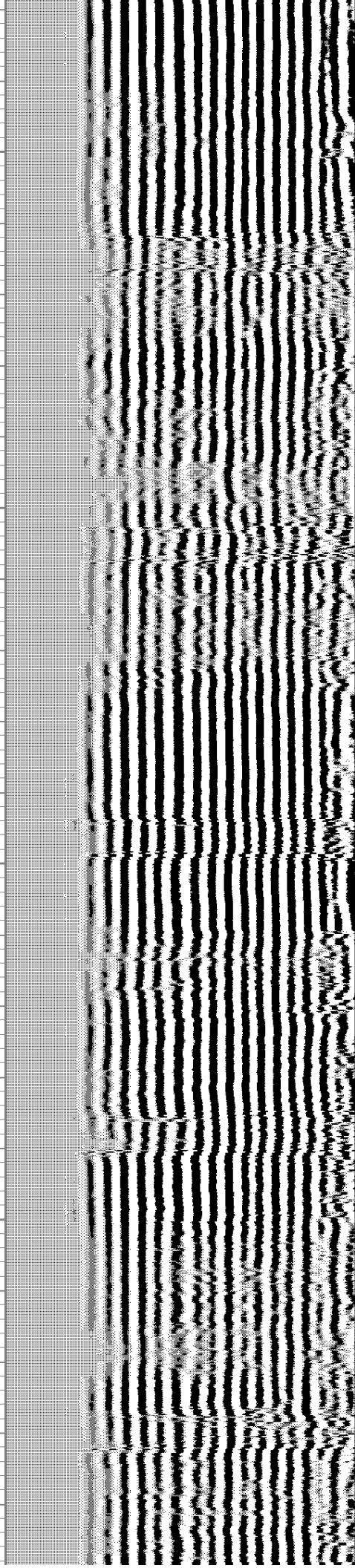
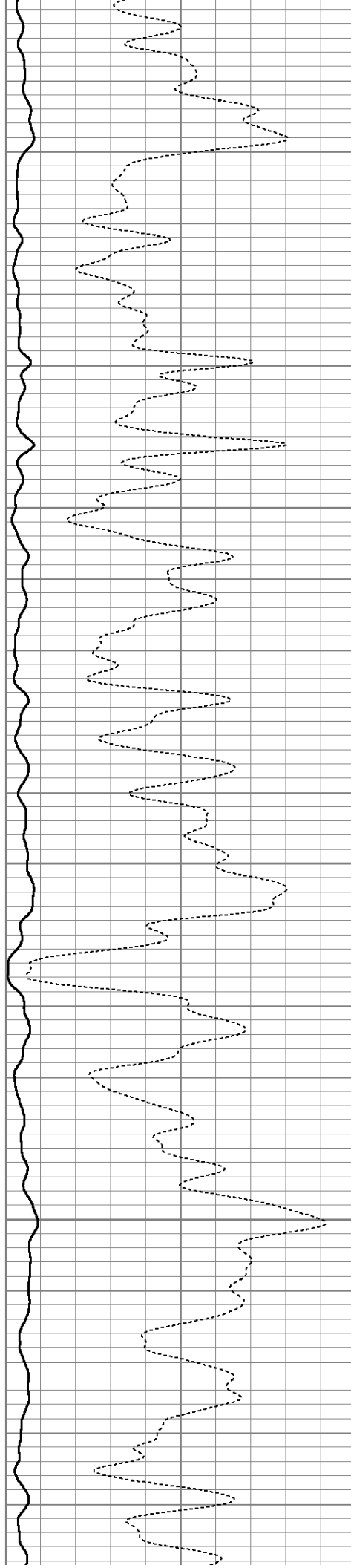


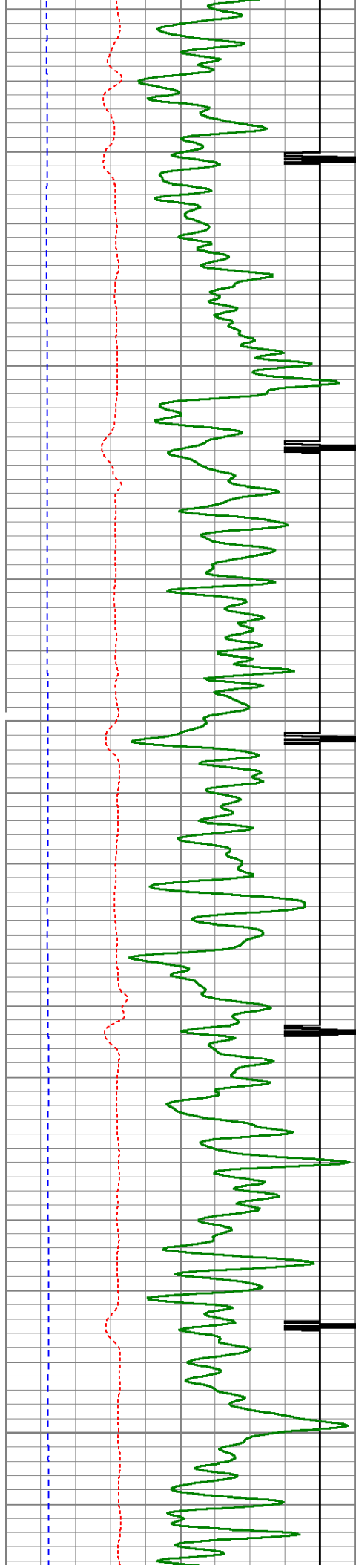
3050

3100

3150

3200





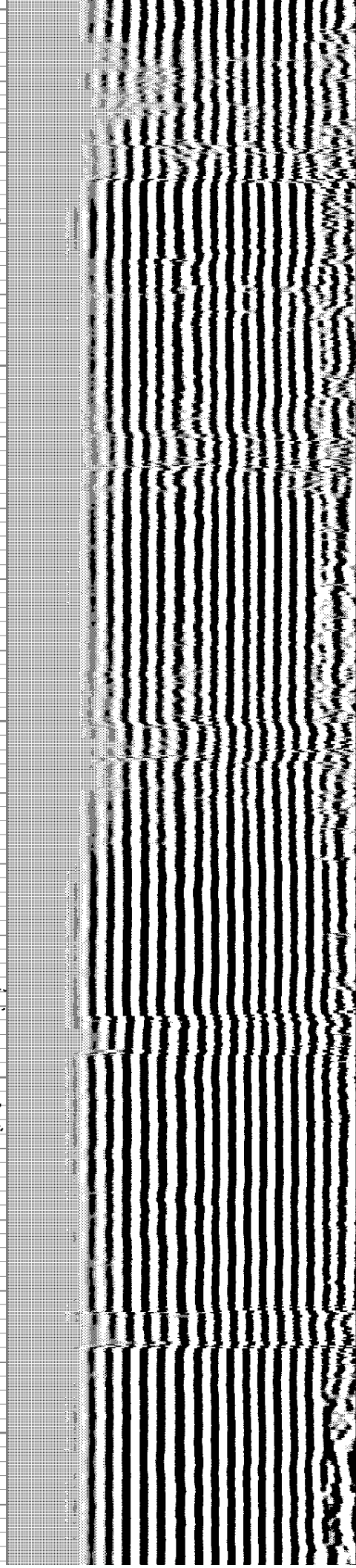
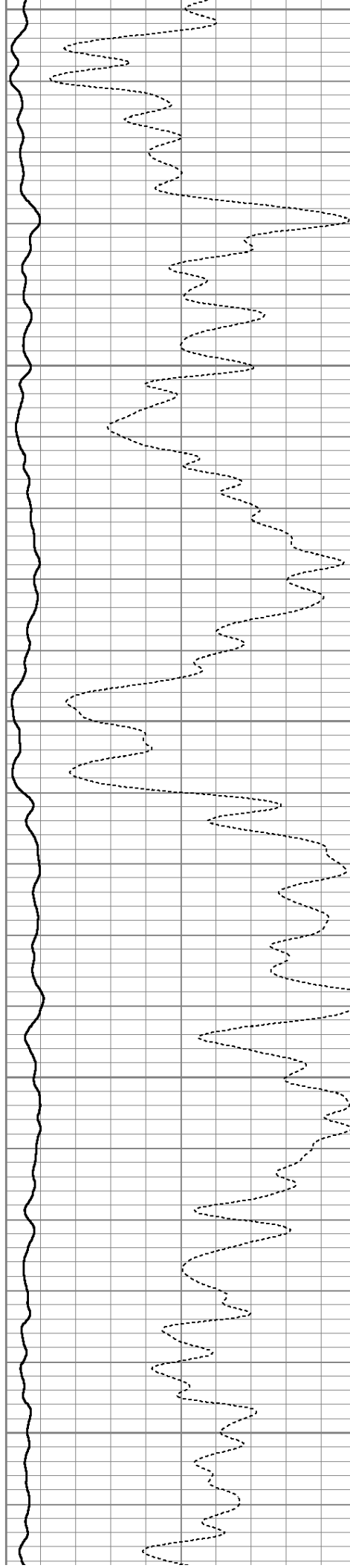
3250

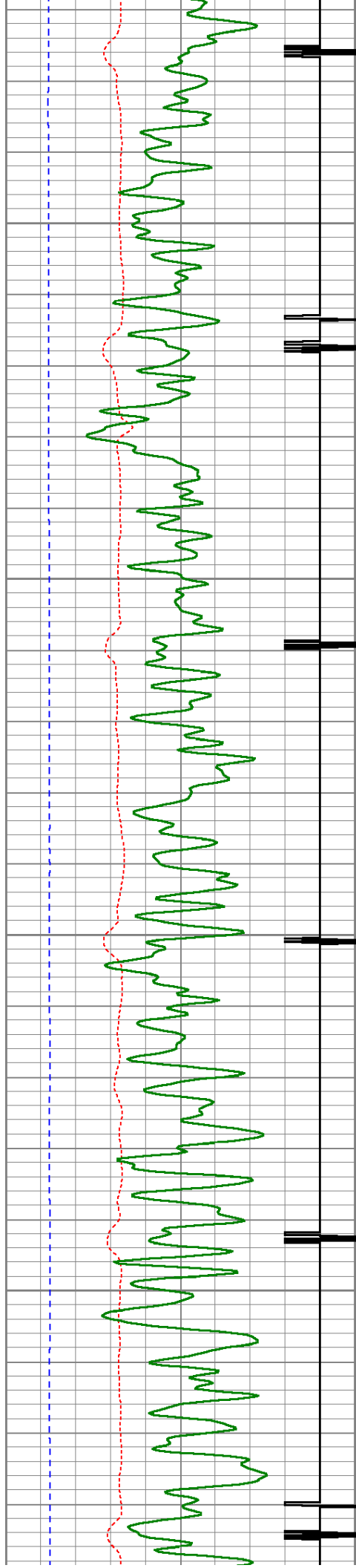
3300

3350

3400

3450



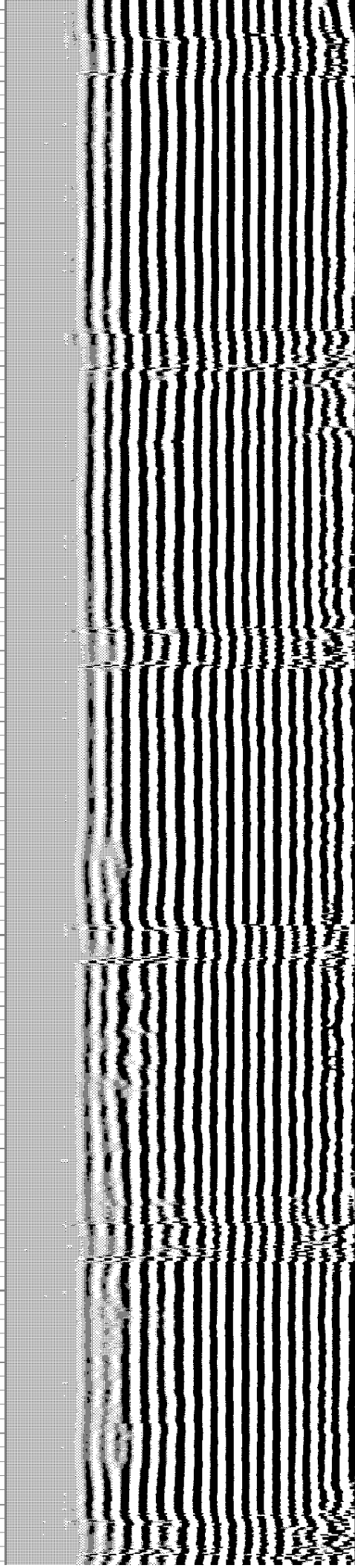
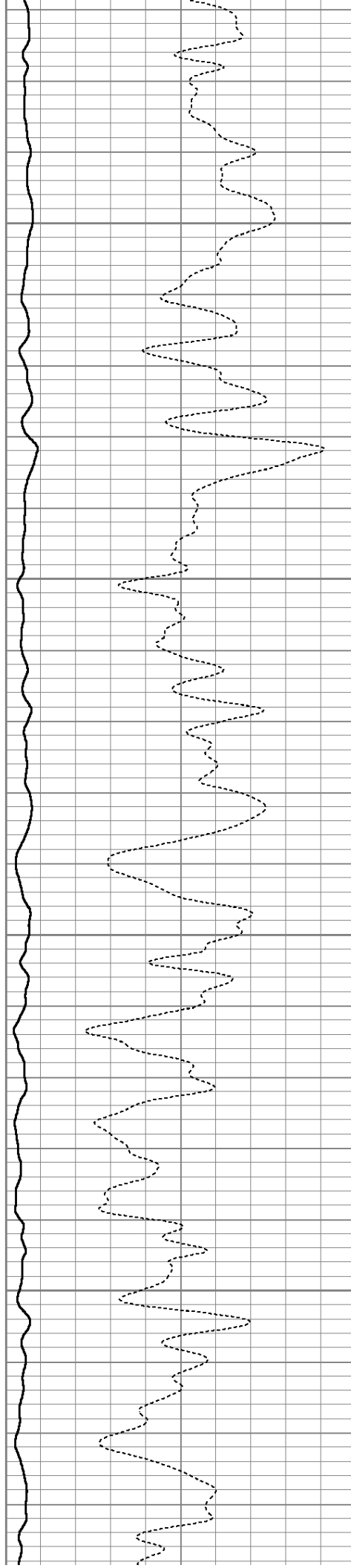


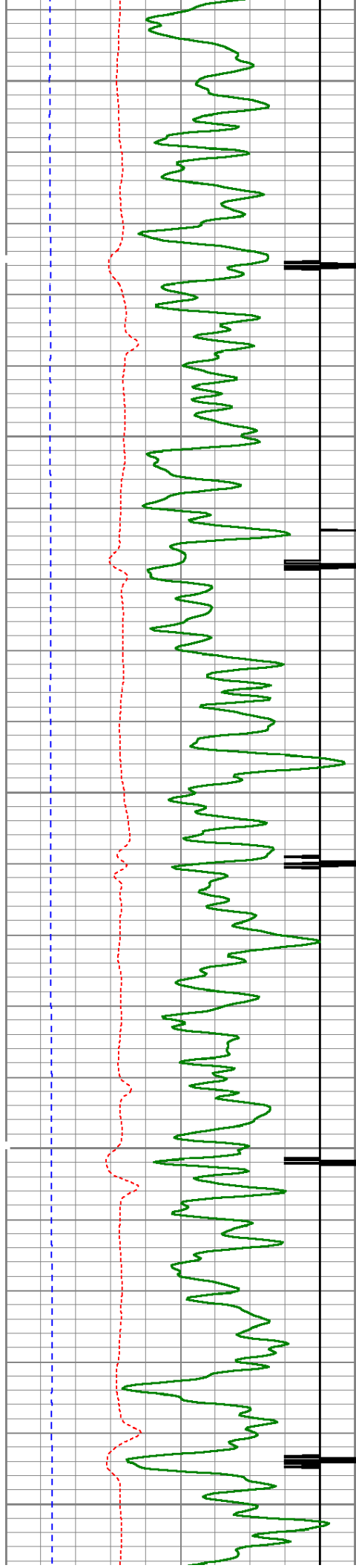
3500

3550

3600

3650





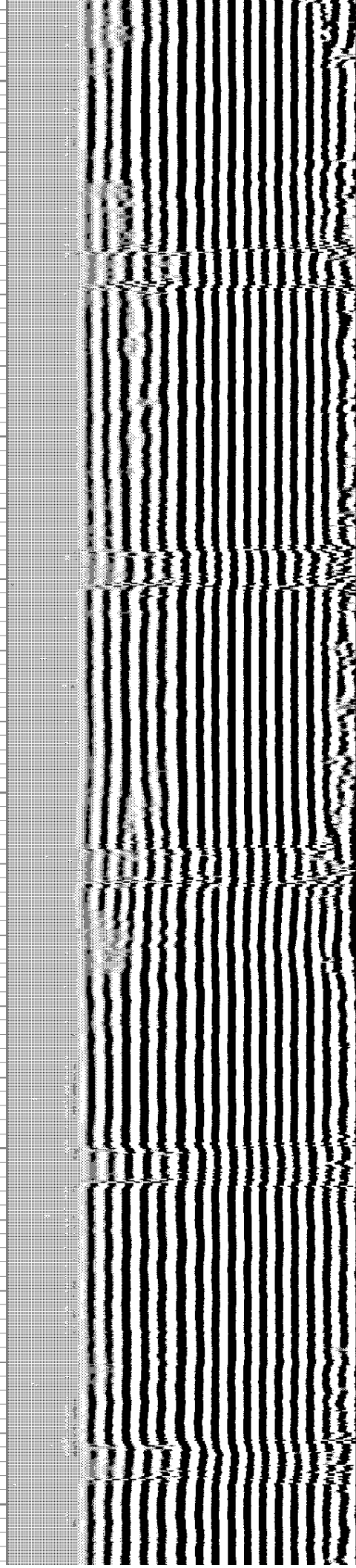
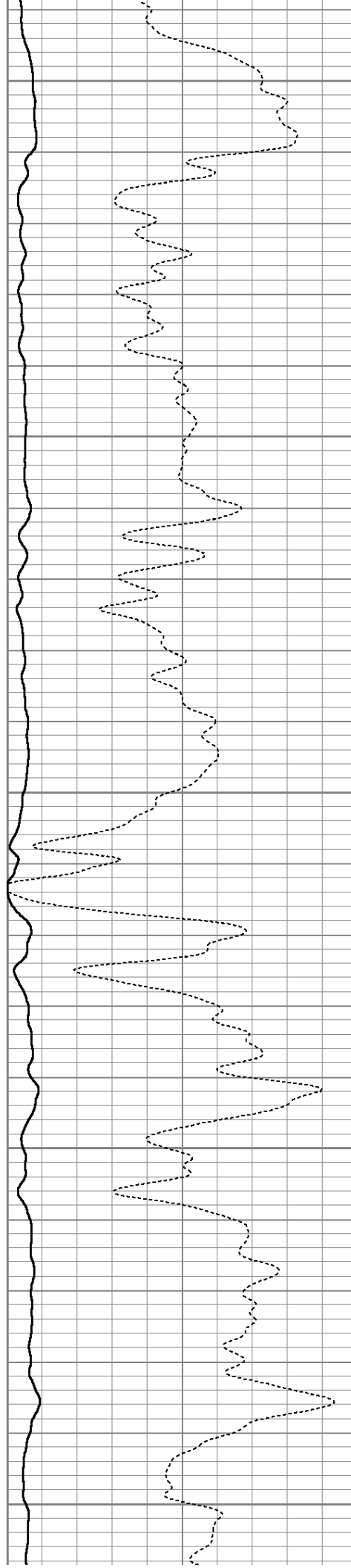
3700

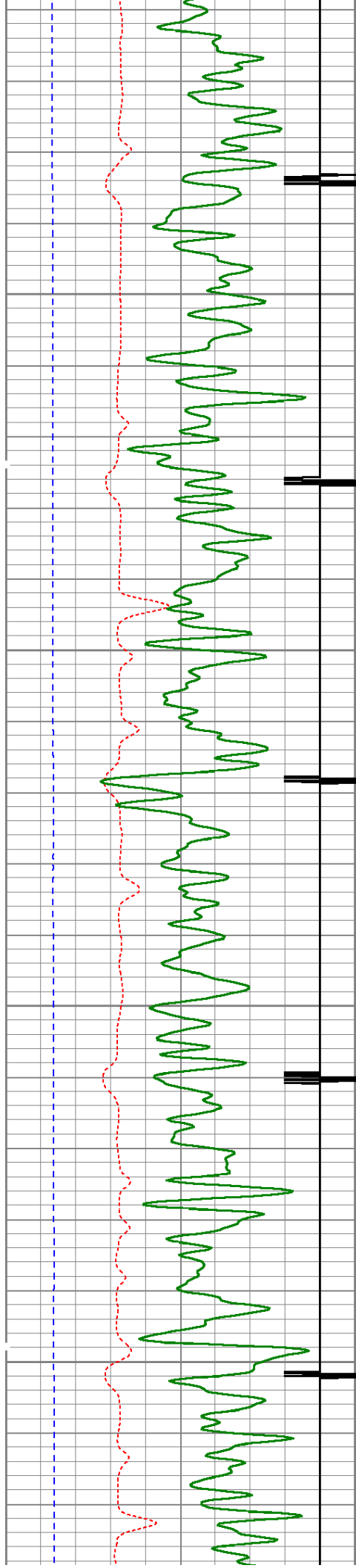
3750

3800

3850

3900



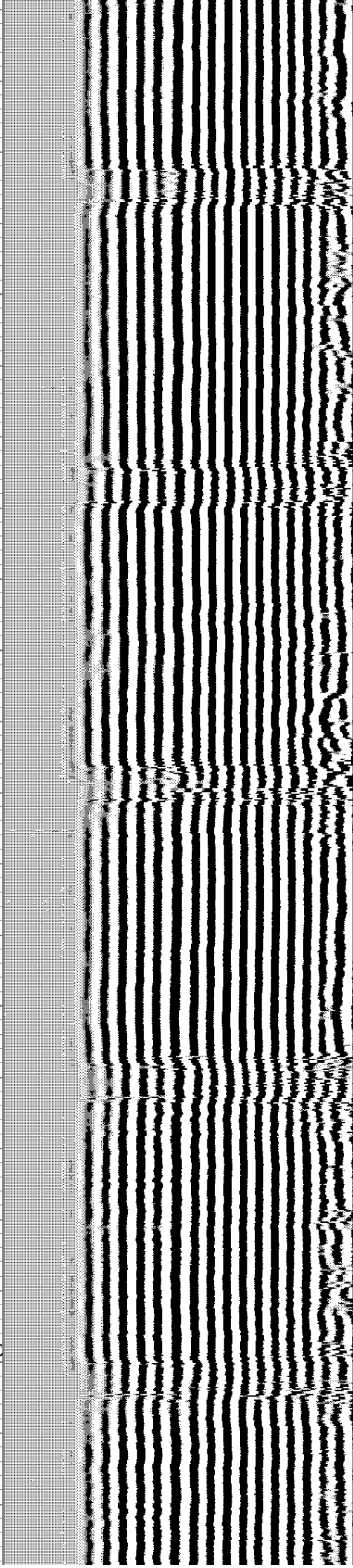
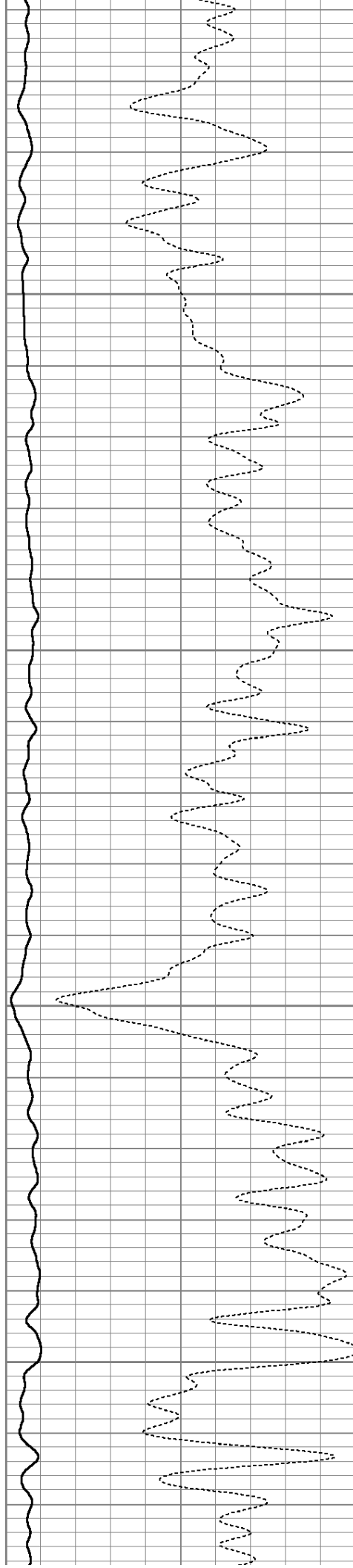


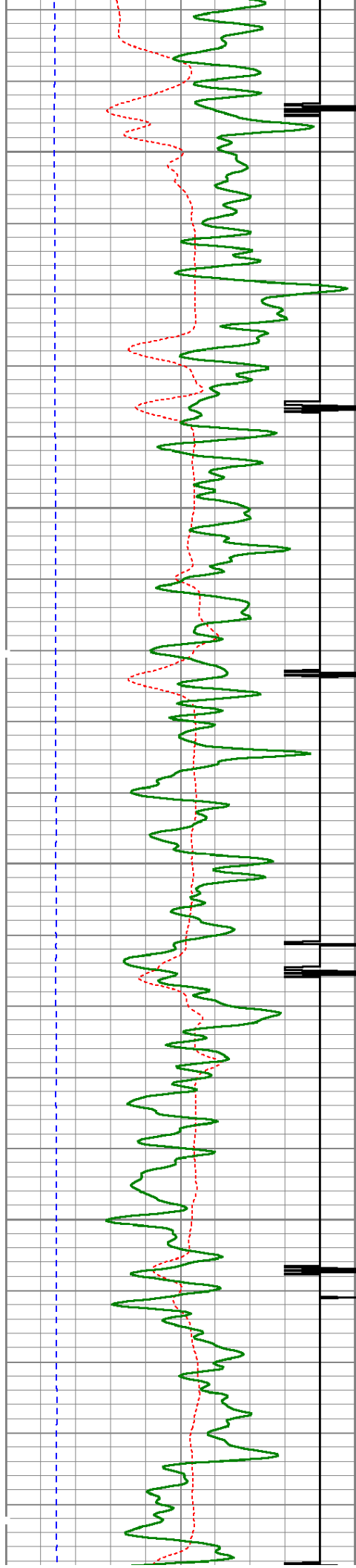
3950

4000

4050

4100



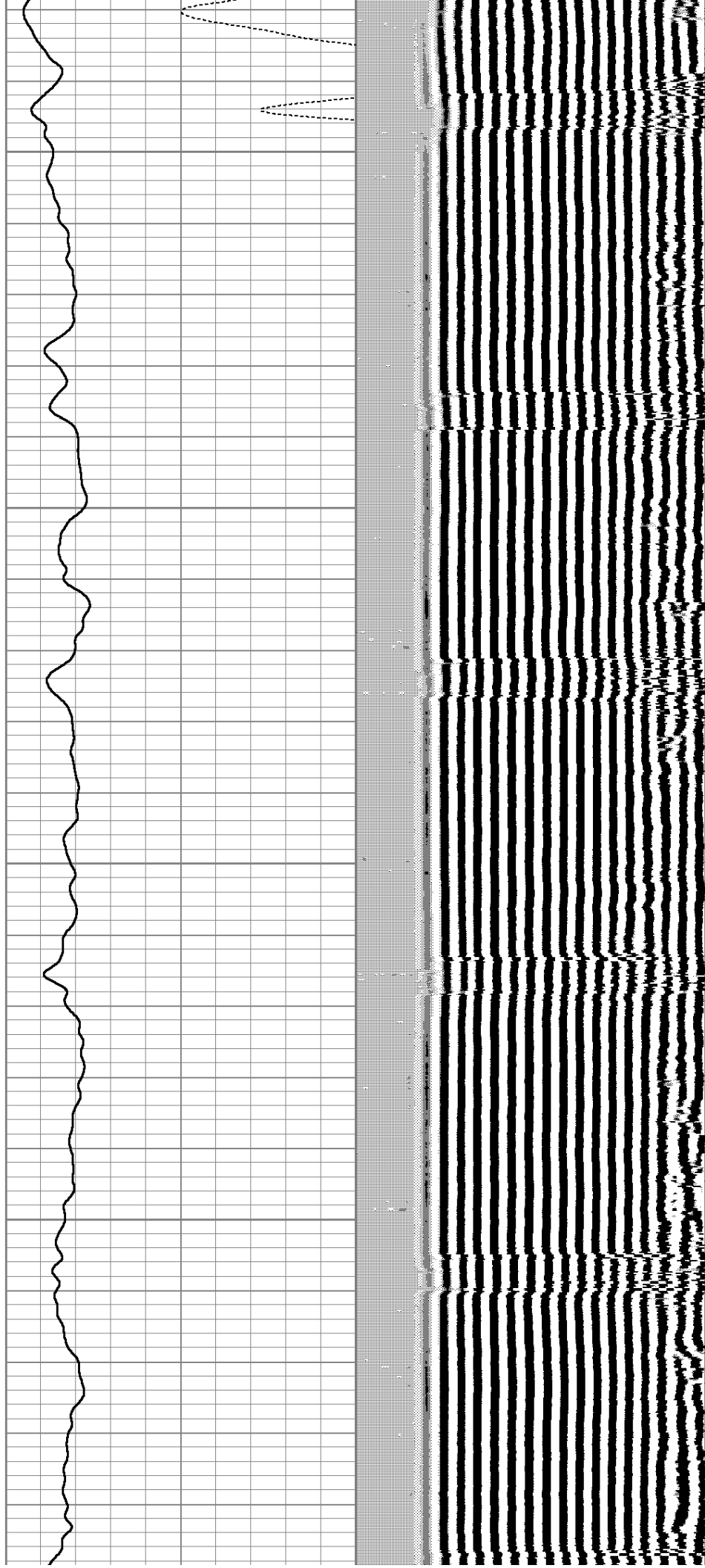


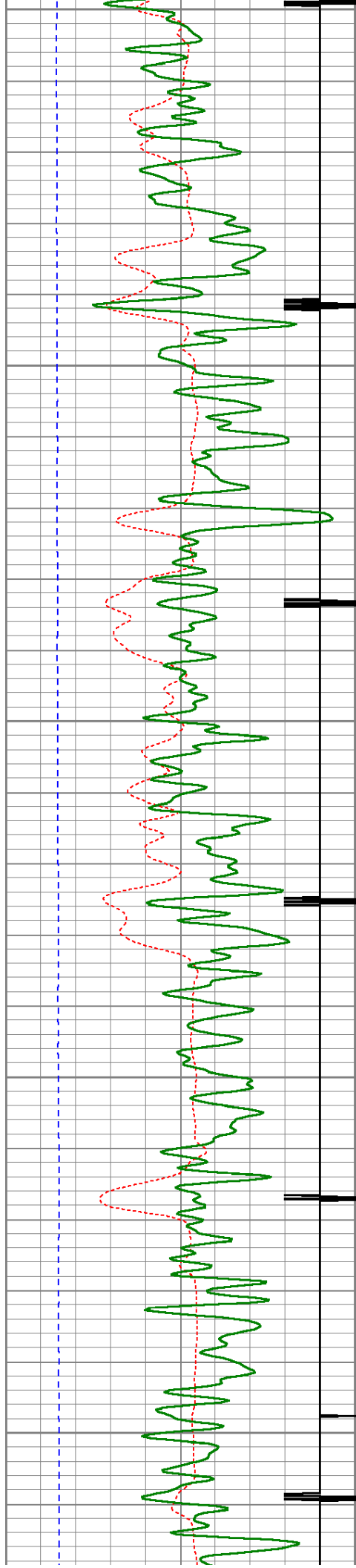
4150

4200

4250

4300





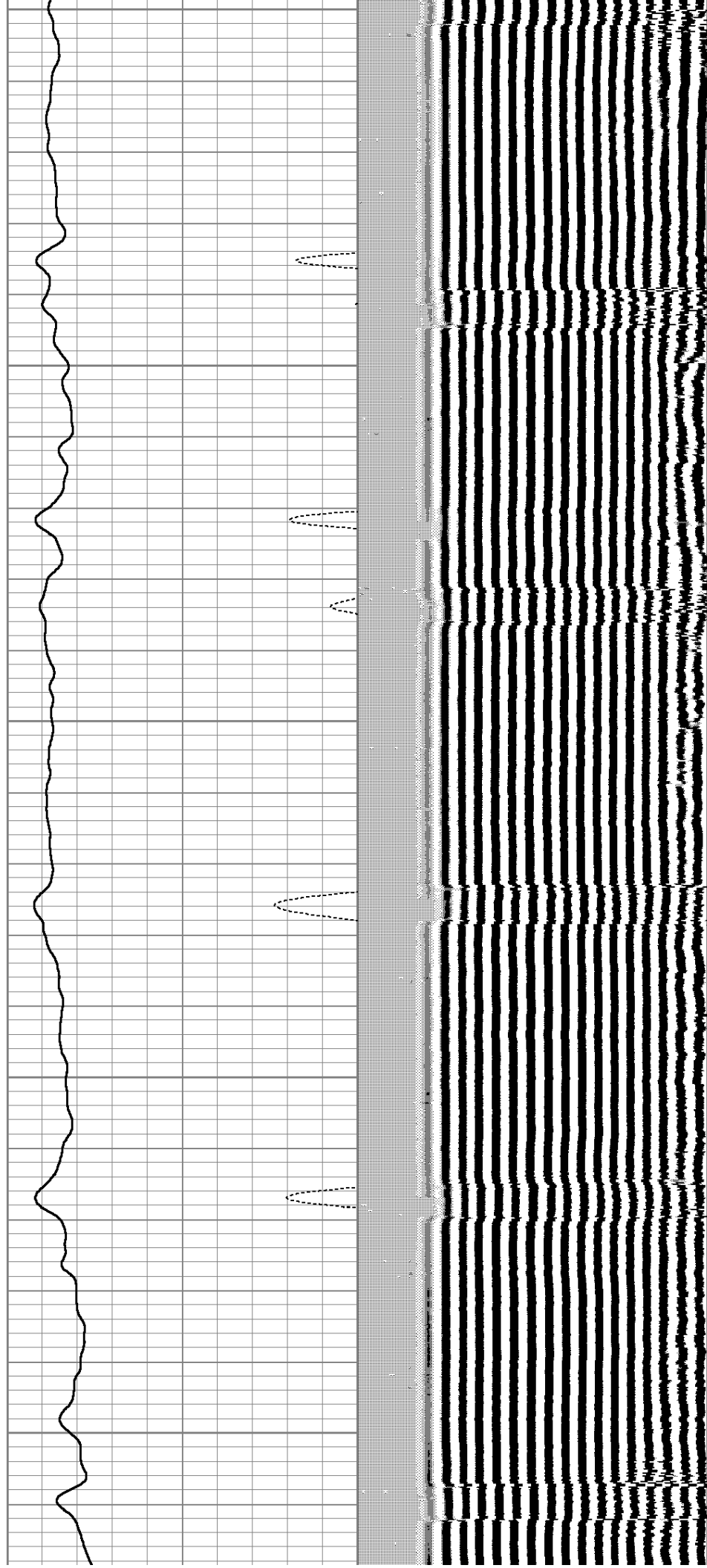
4350

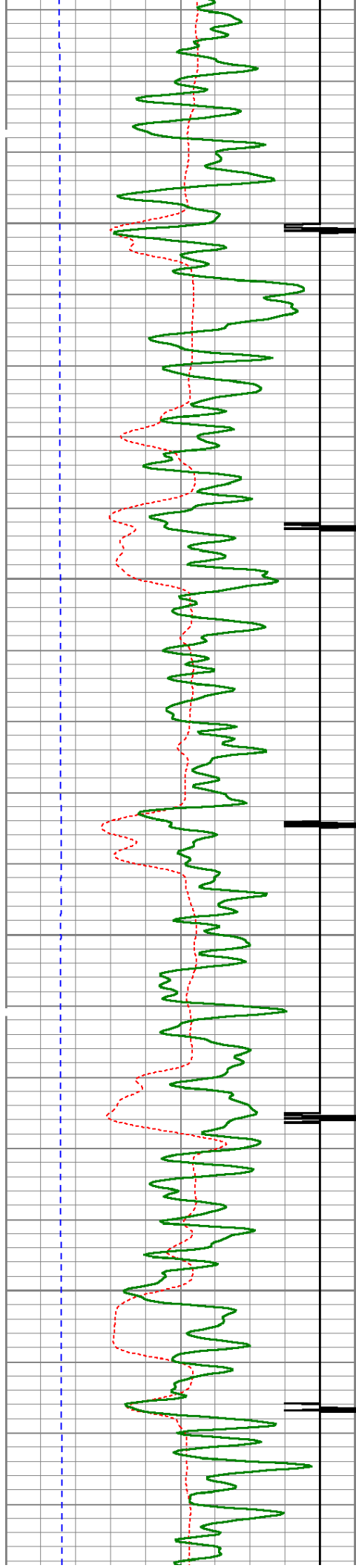
4400

4450

4500

4550



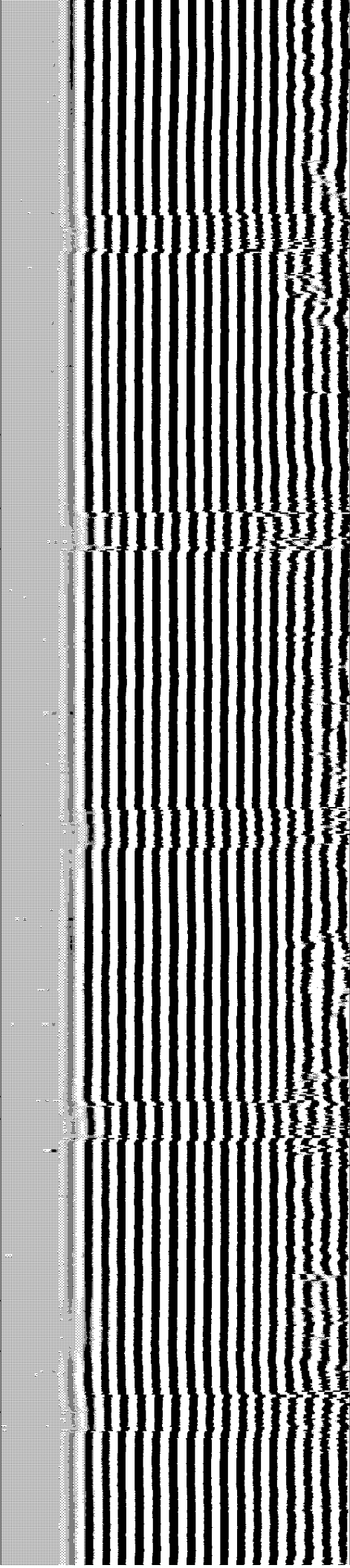
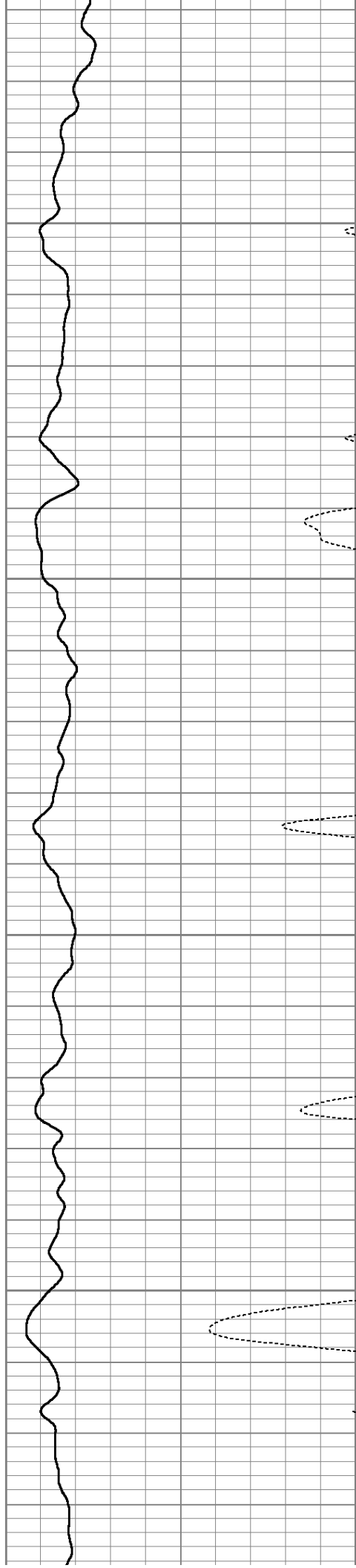


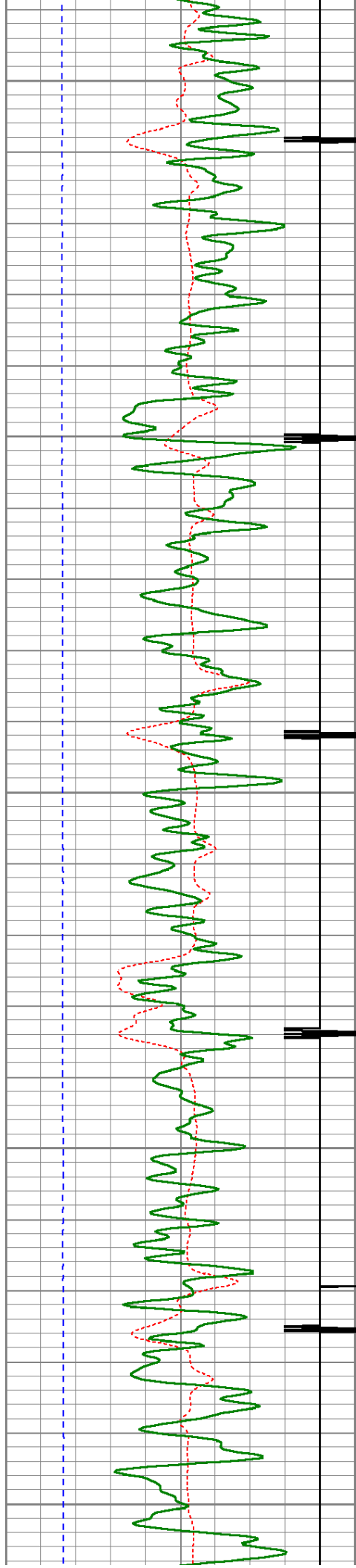
4600

4650

4700

4750





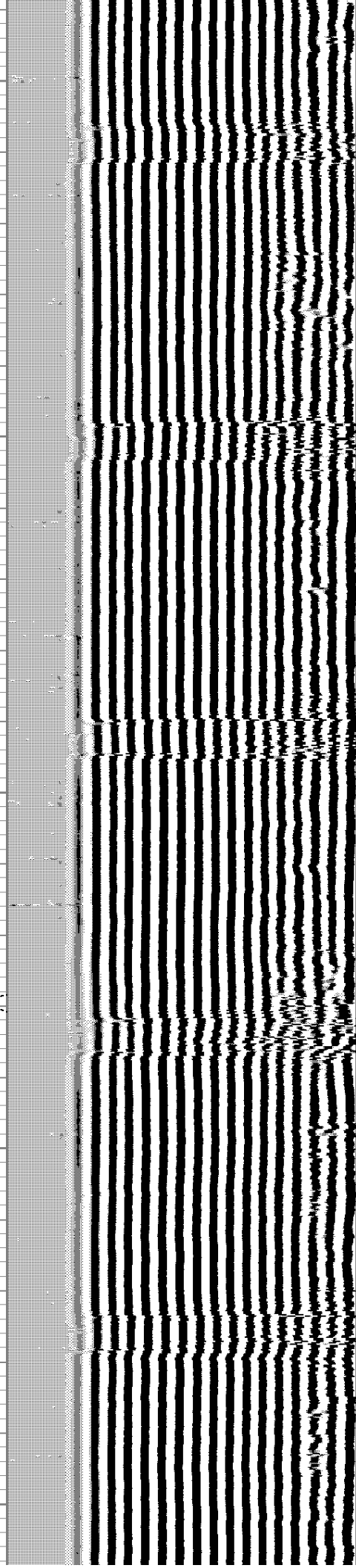
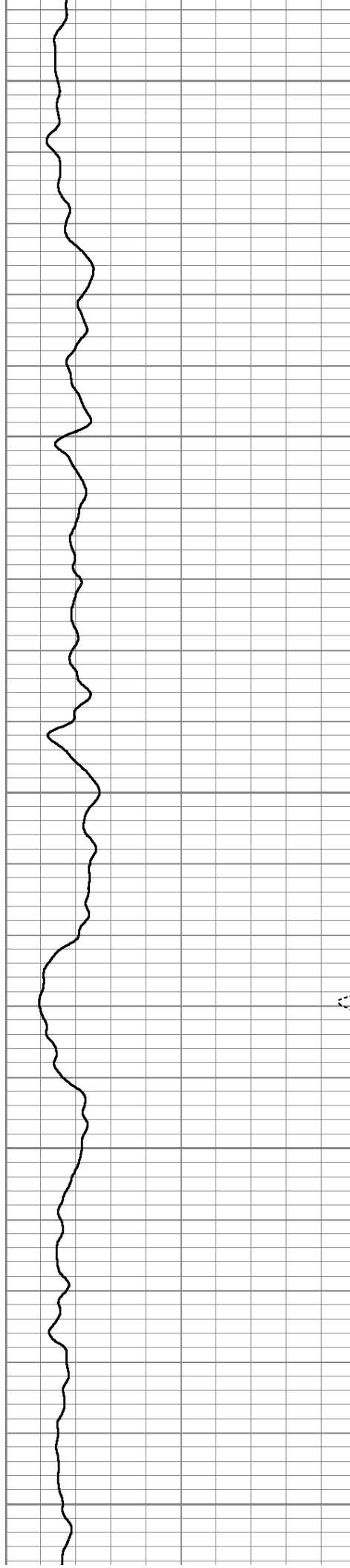
4800

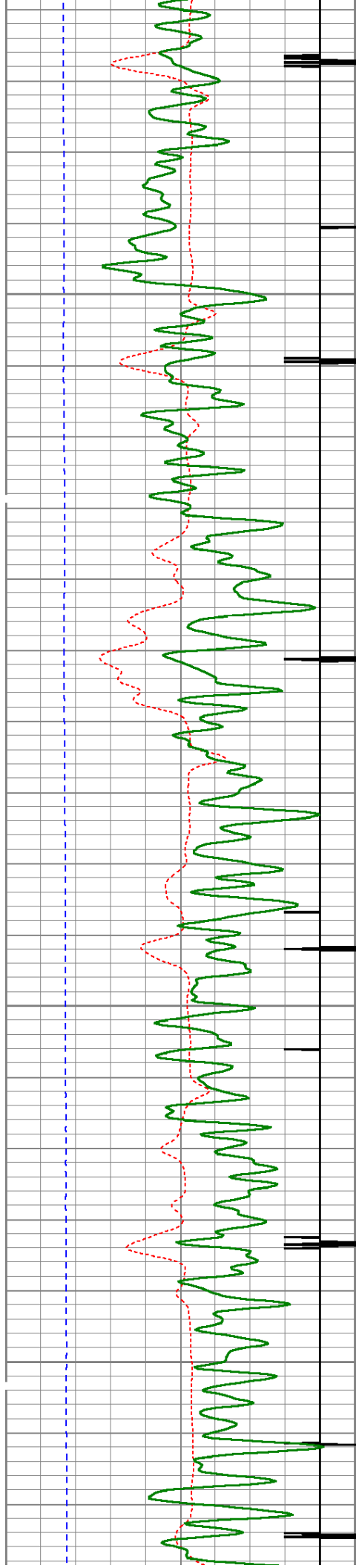
4850

4900

4950

5000



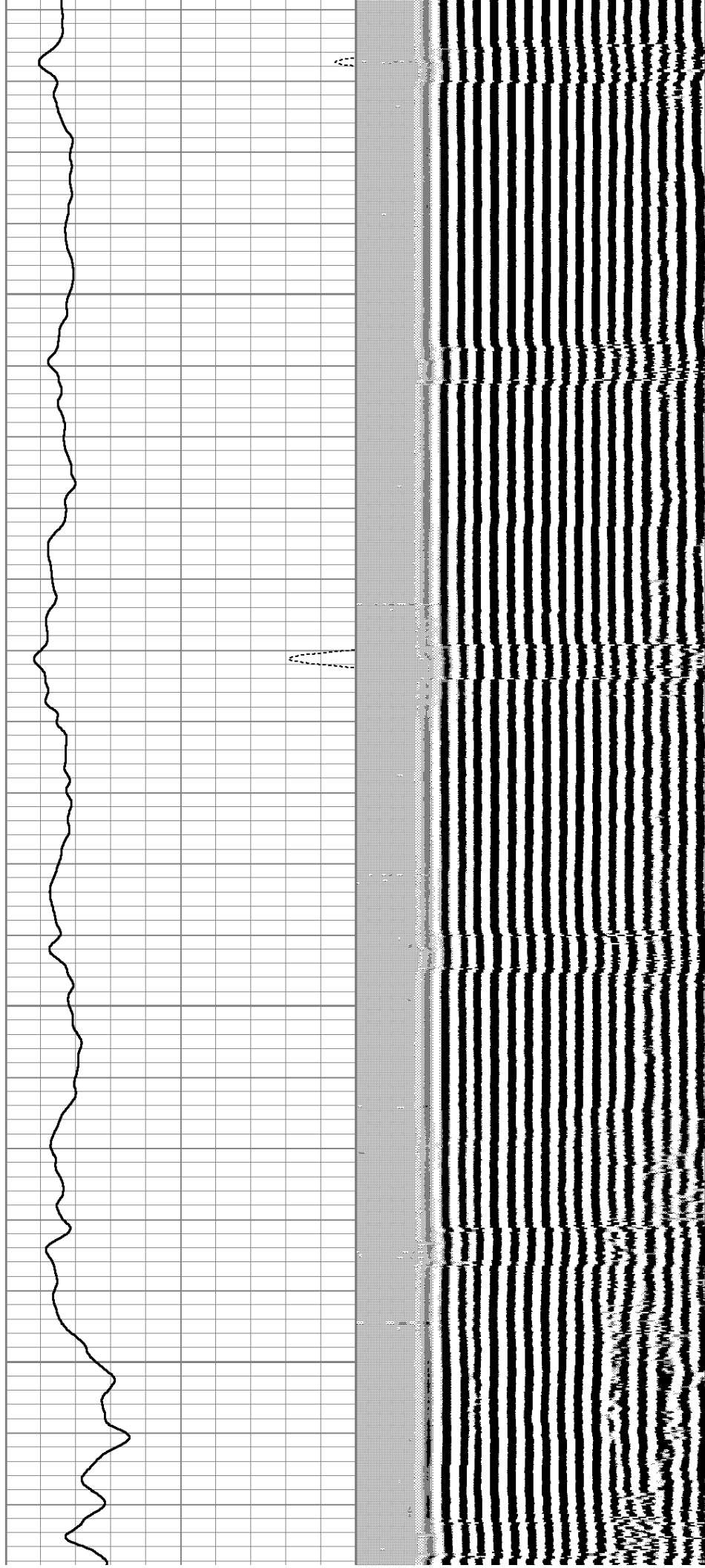


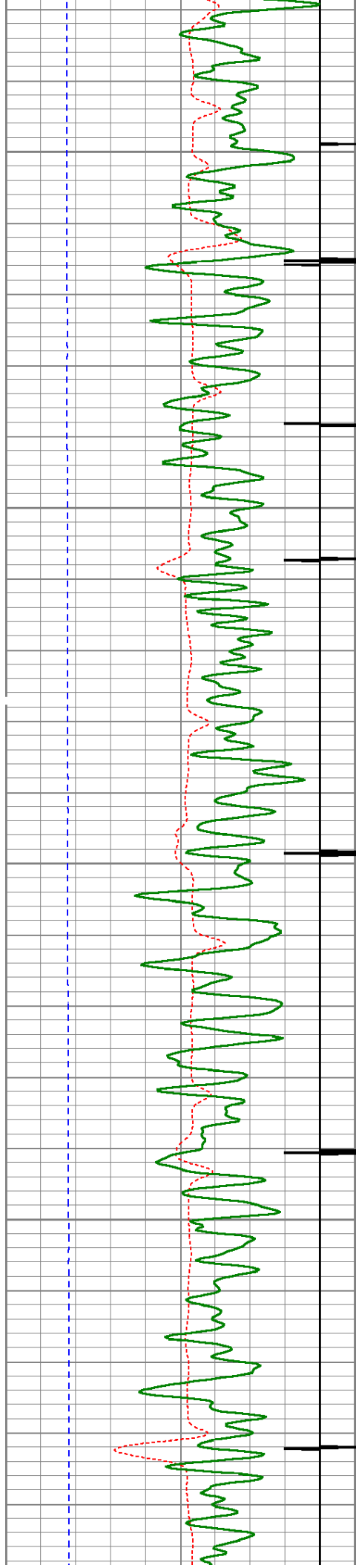
5050

5100

5150

5200



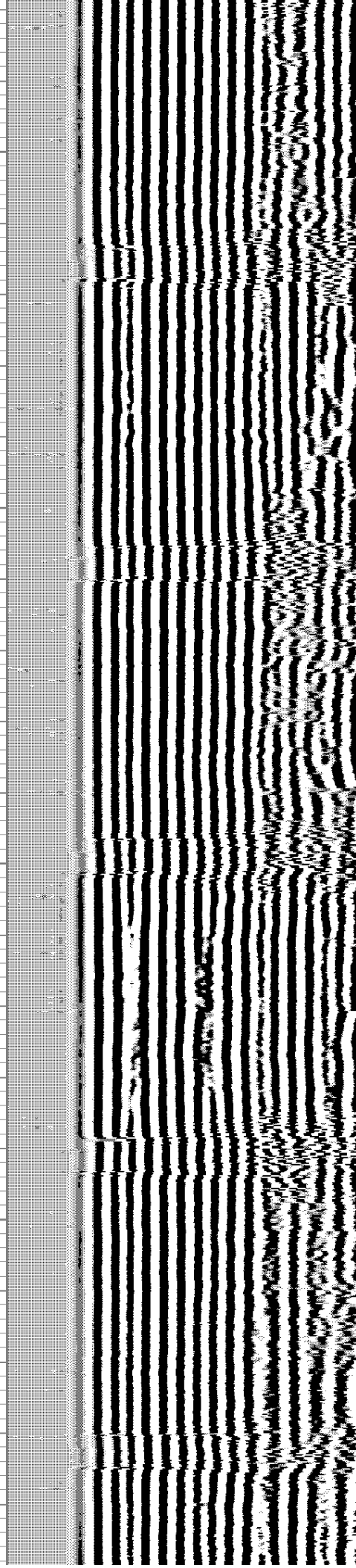
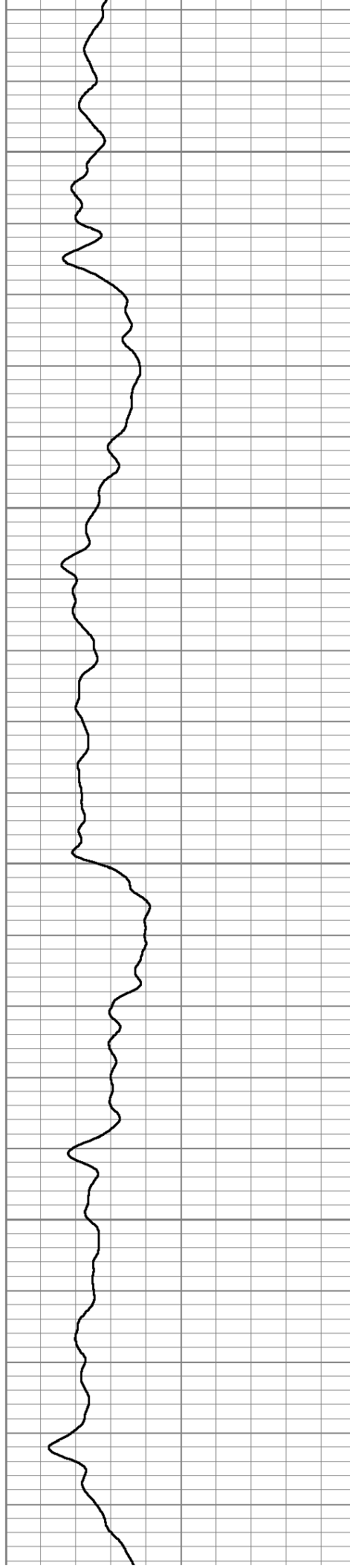


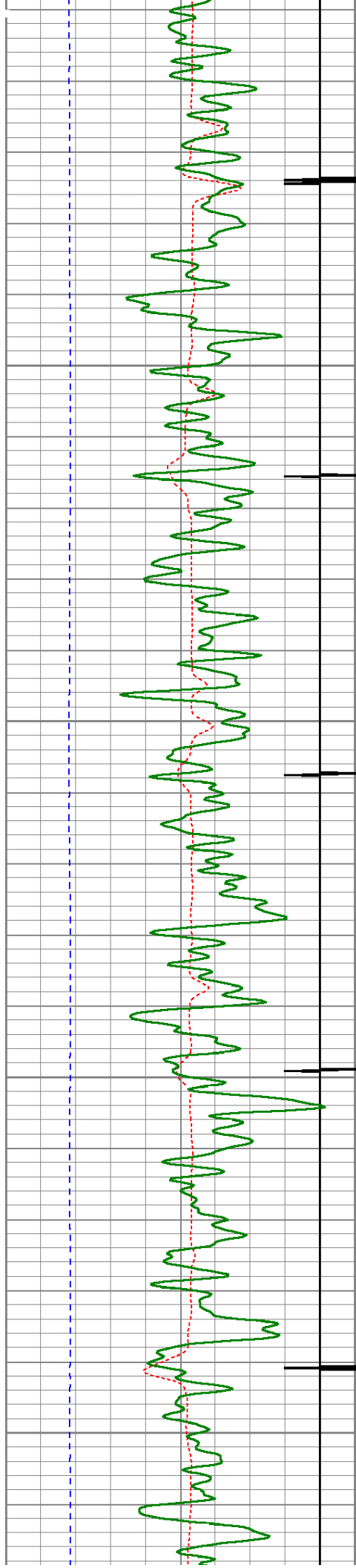
5250

5300

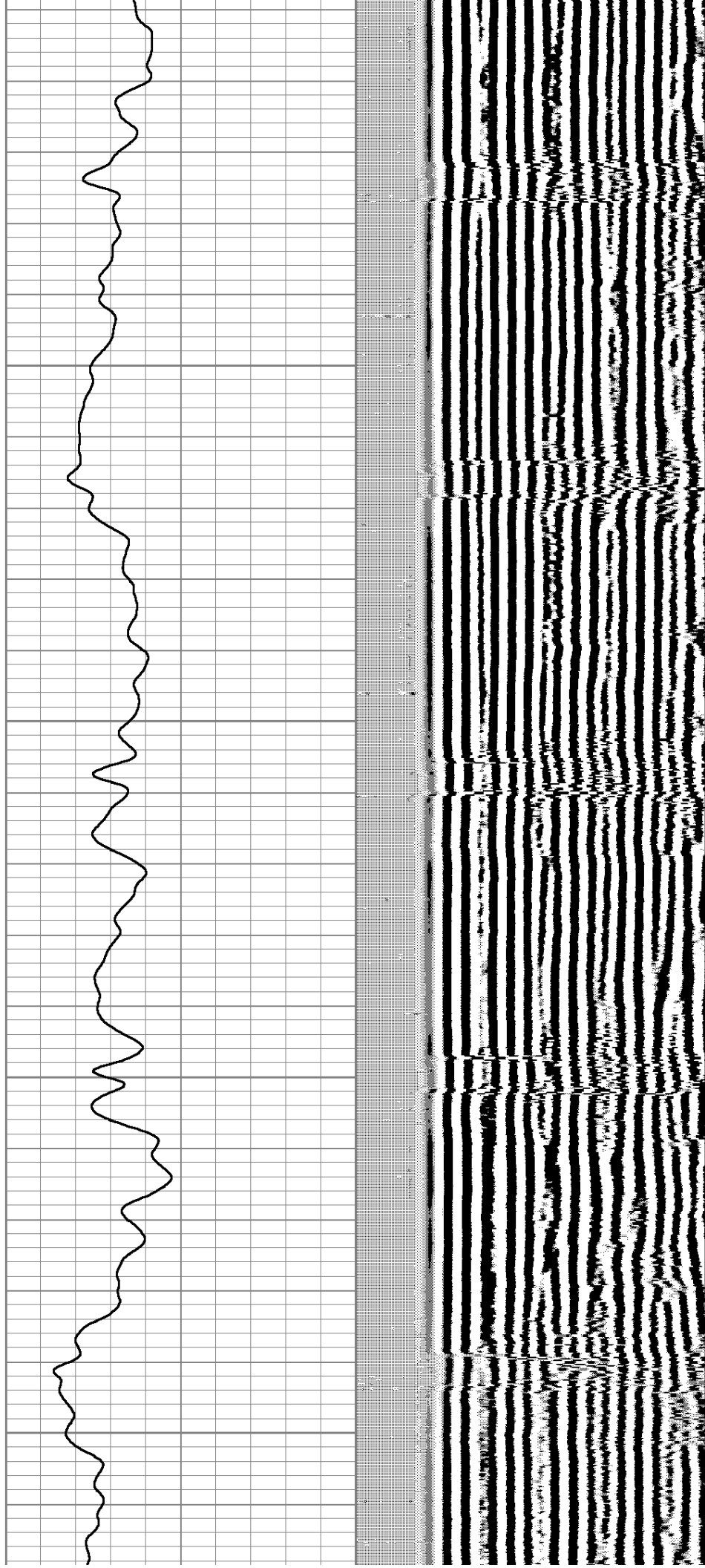
5350

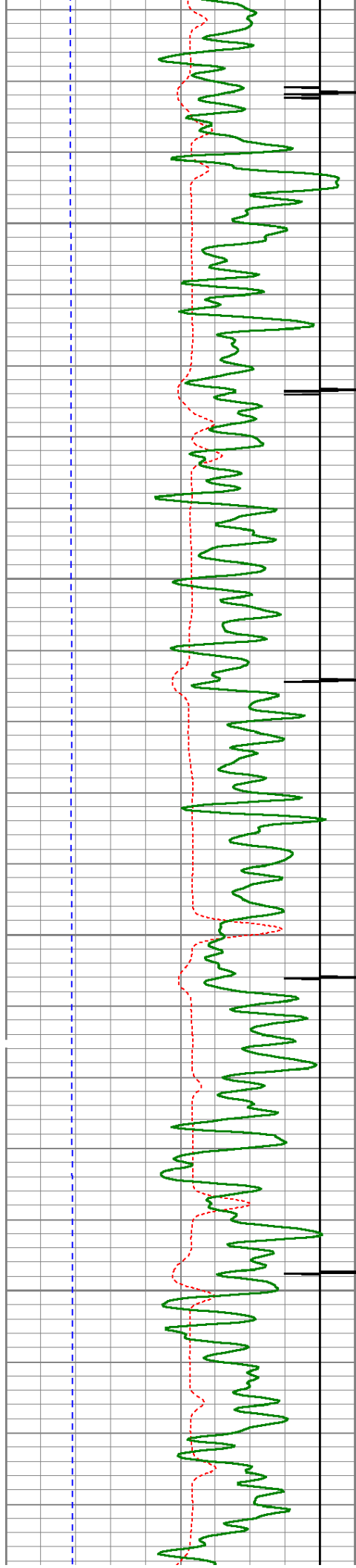
5400





5450
5500
5550
5600
5650



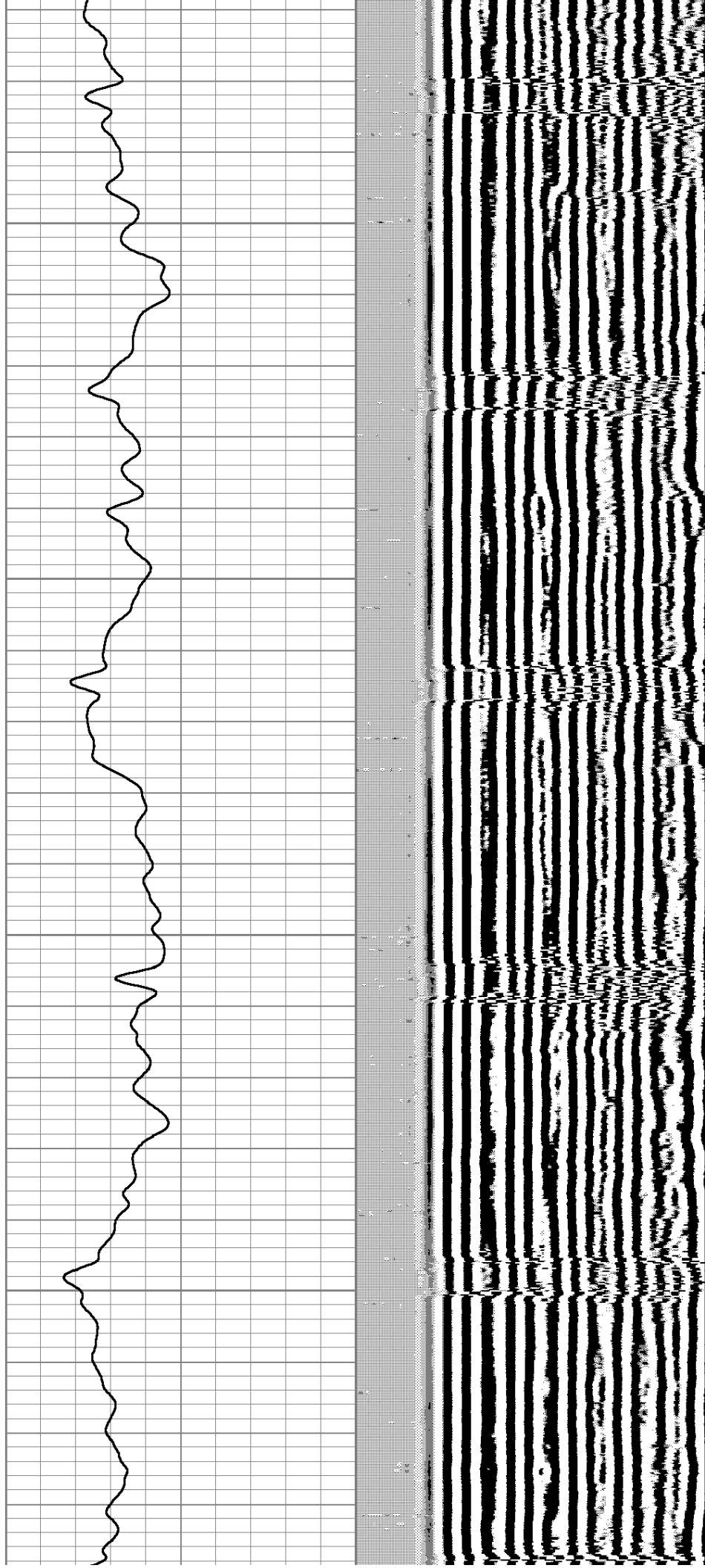


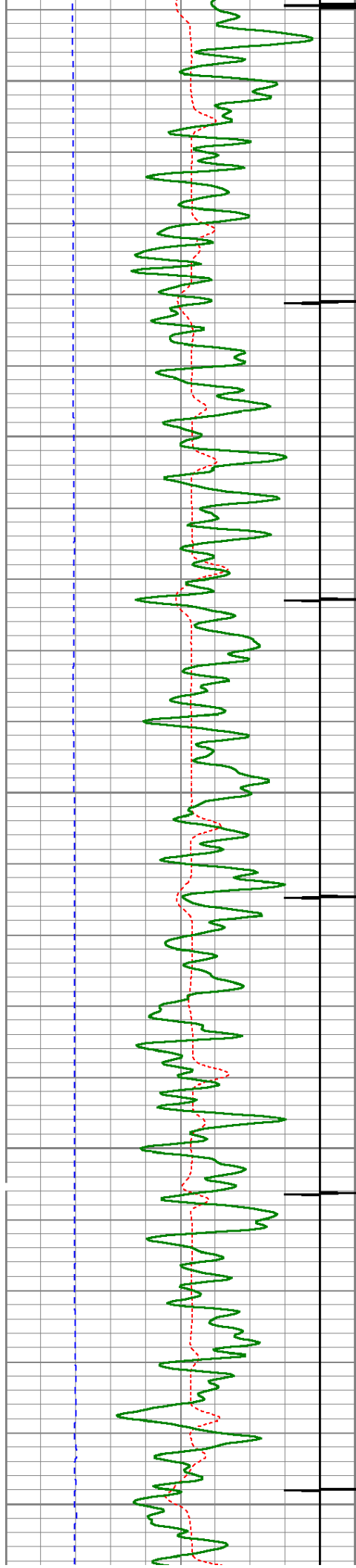
5700

5750

5800

5850





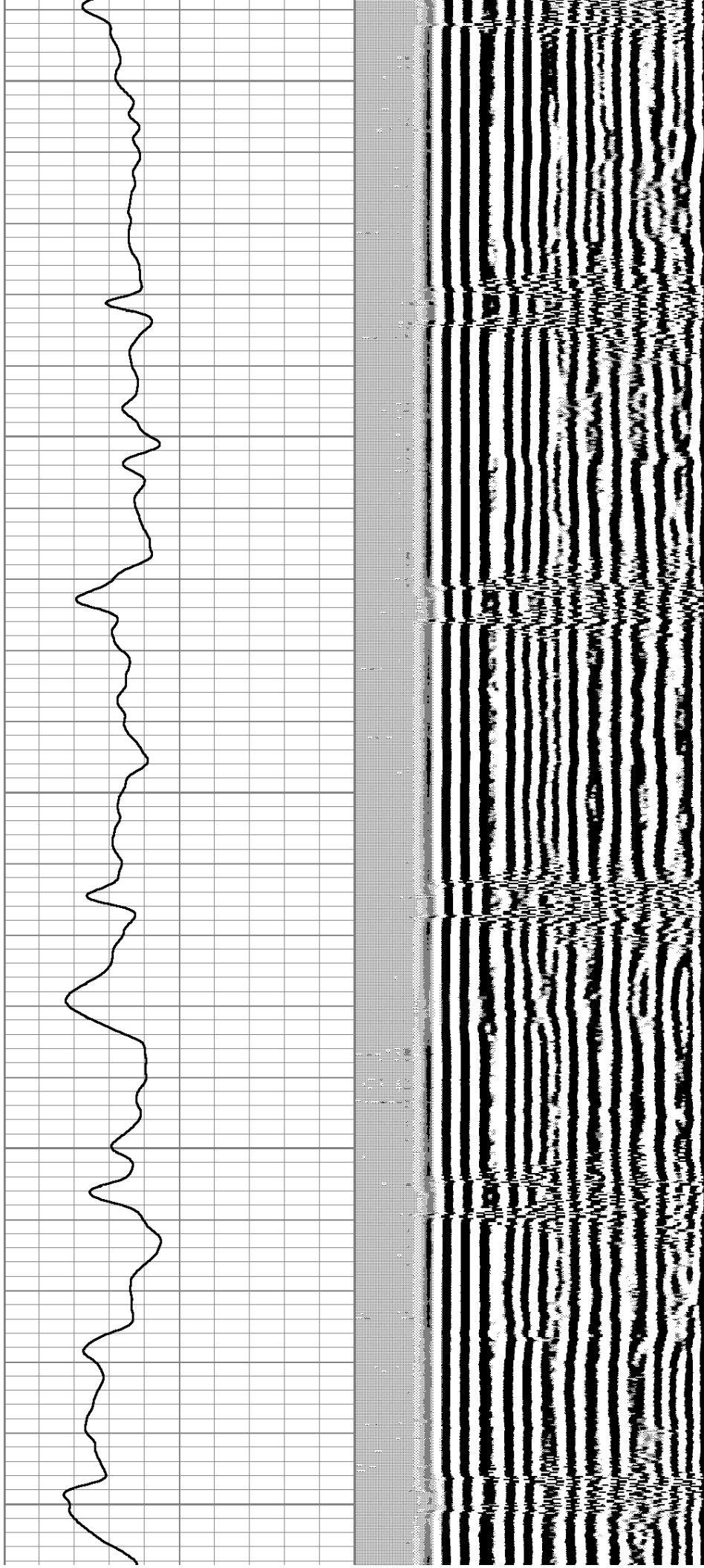
5900

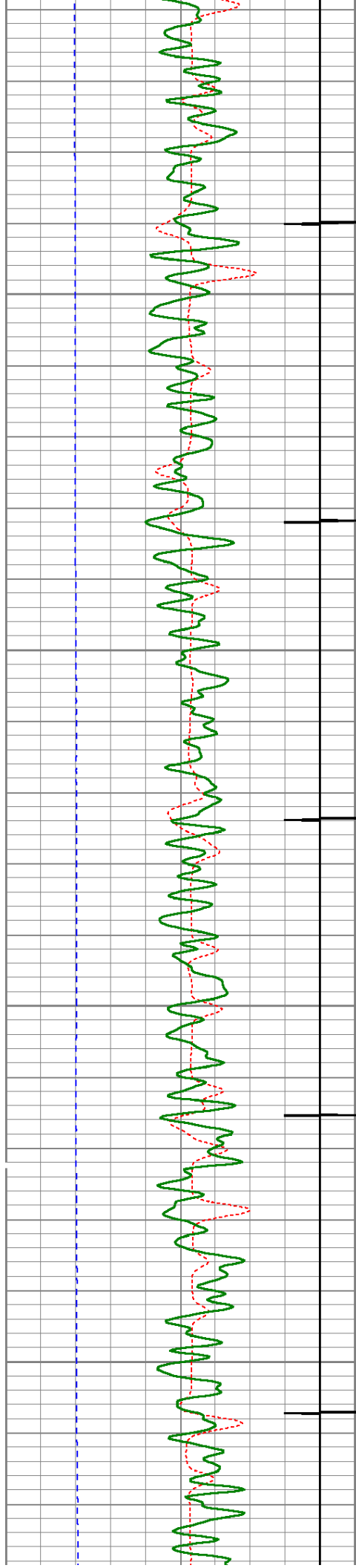
5950

6000

6050

6100



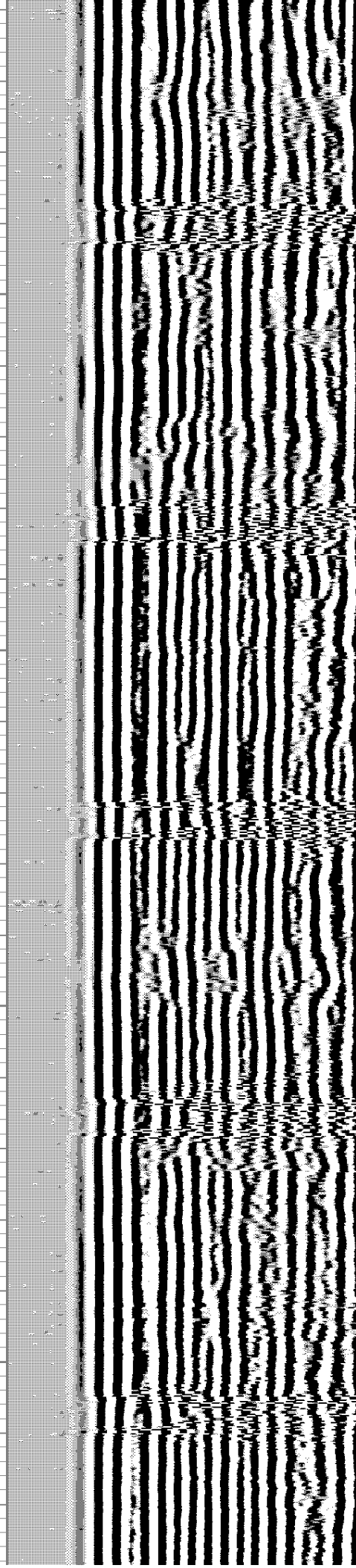
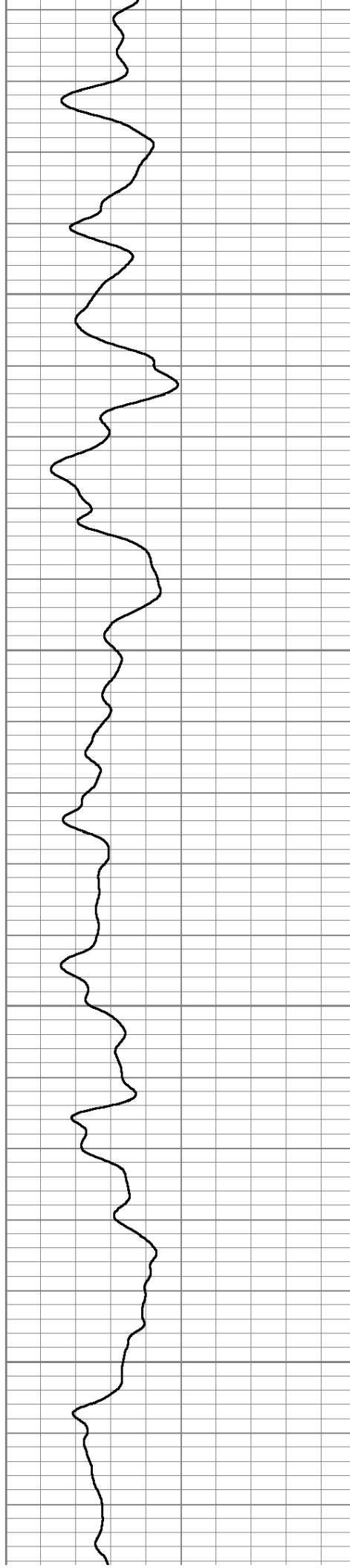


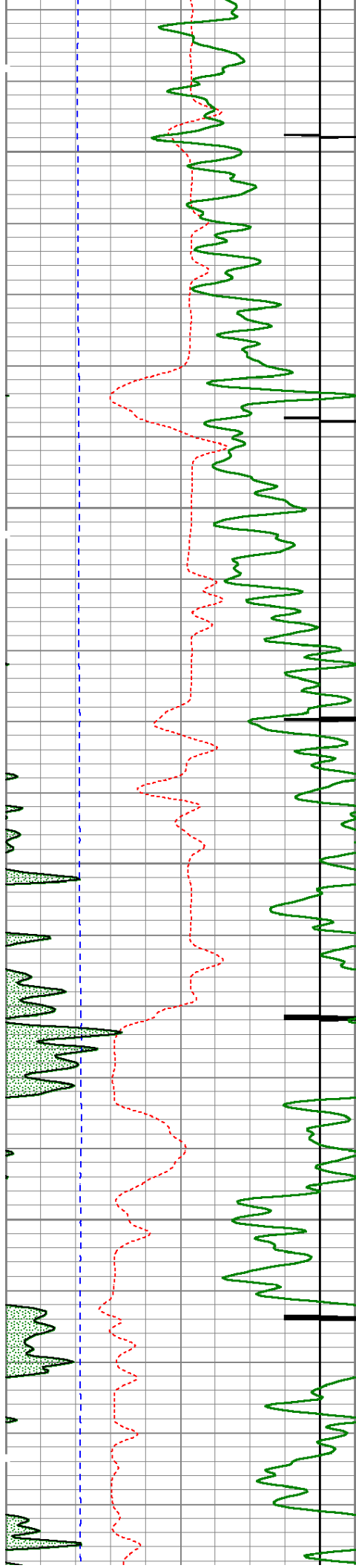
6150

6200

6250

6300



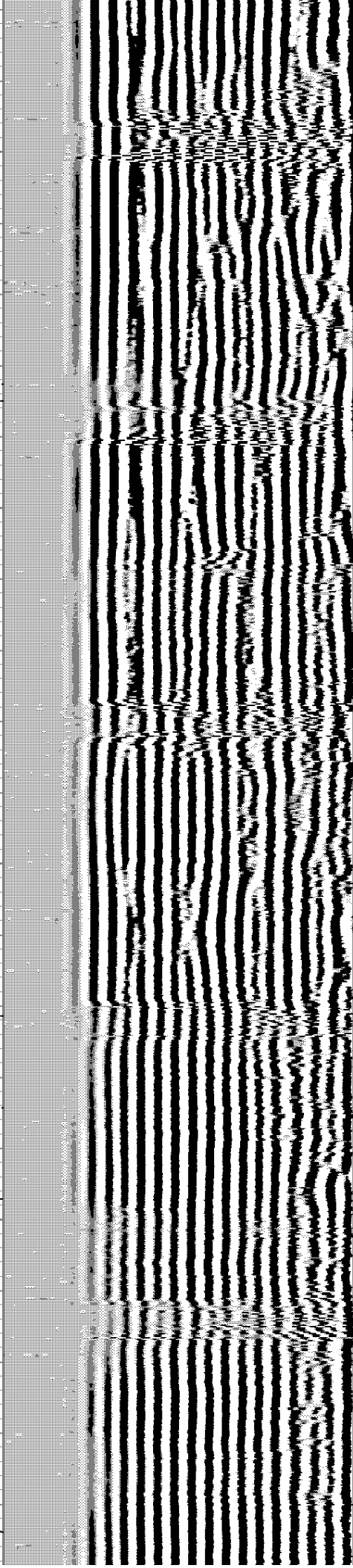
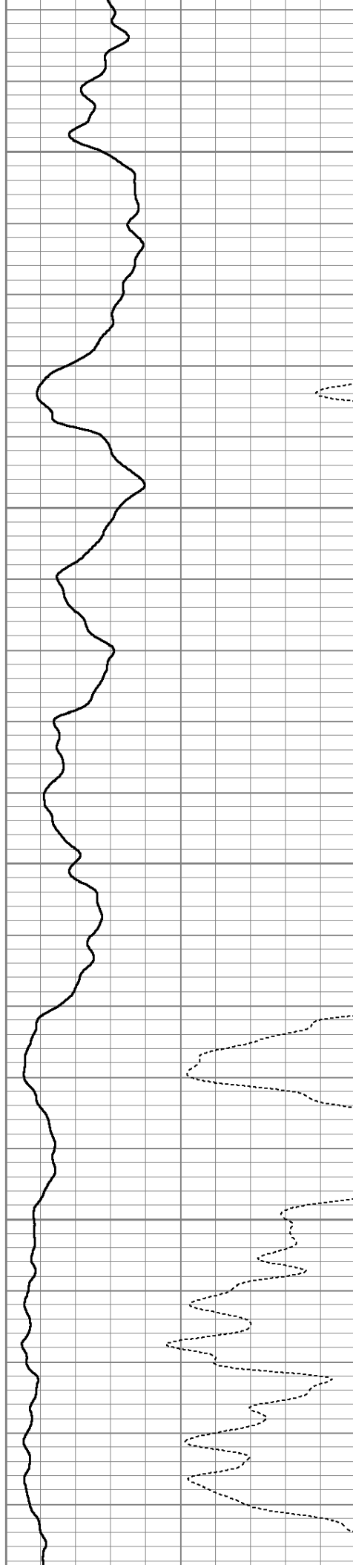


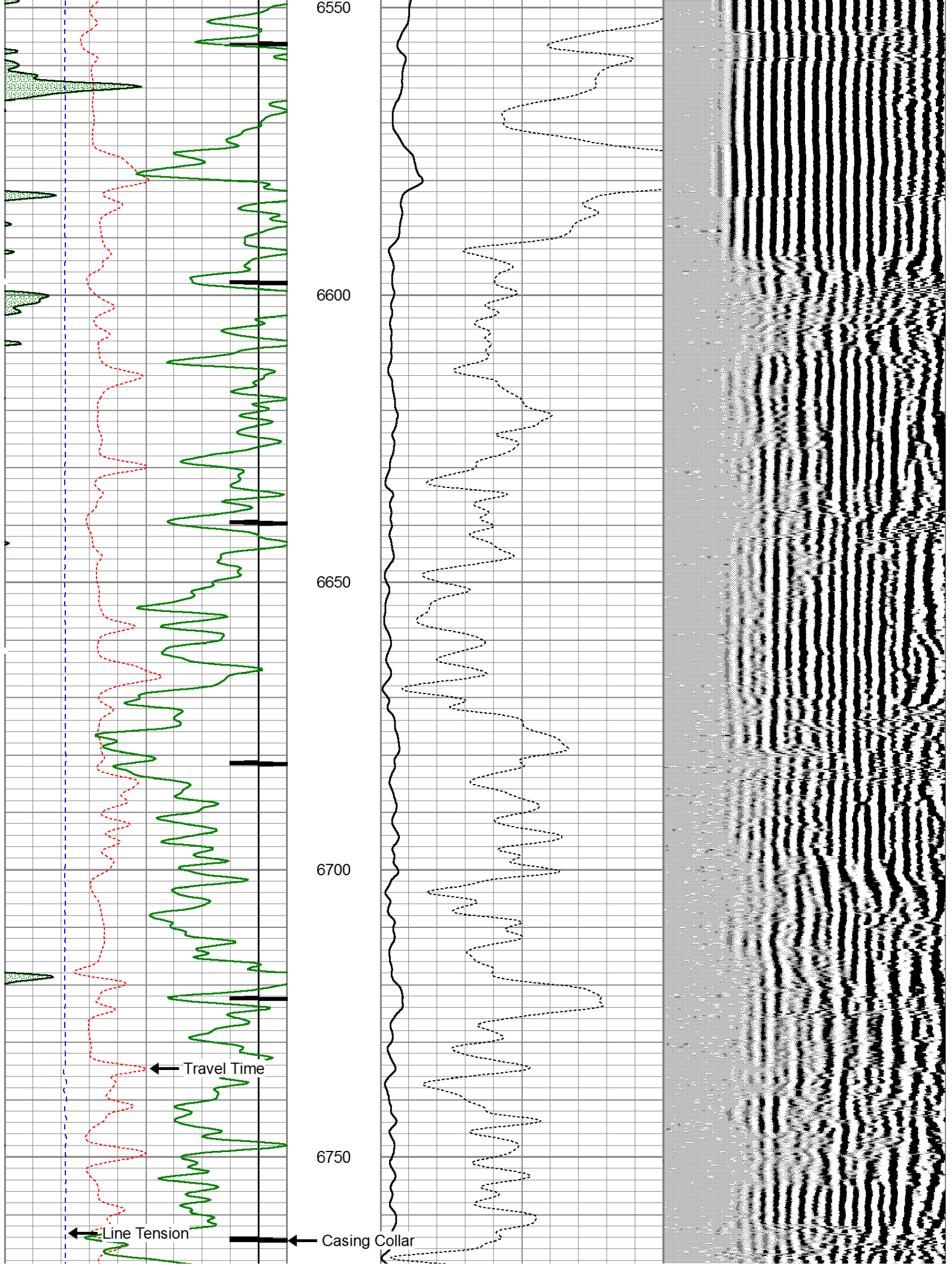
6350

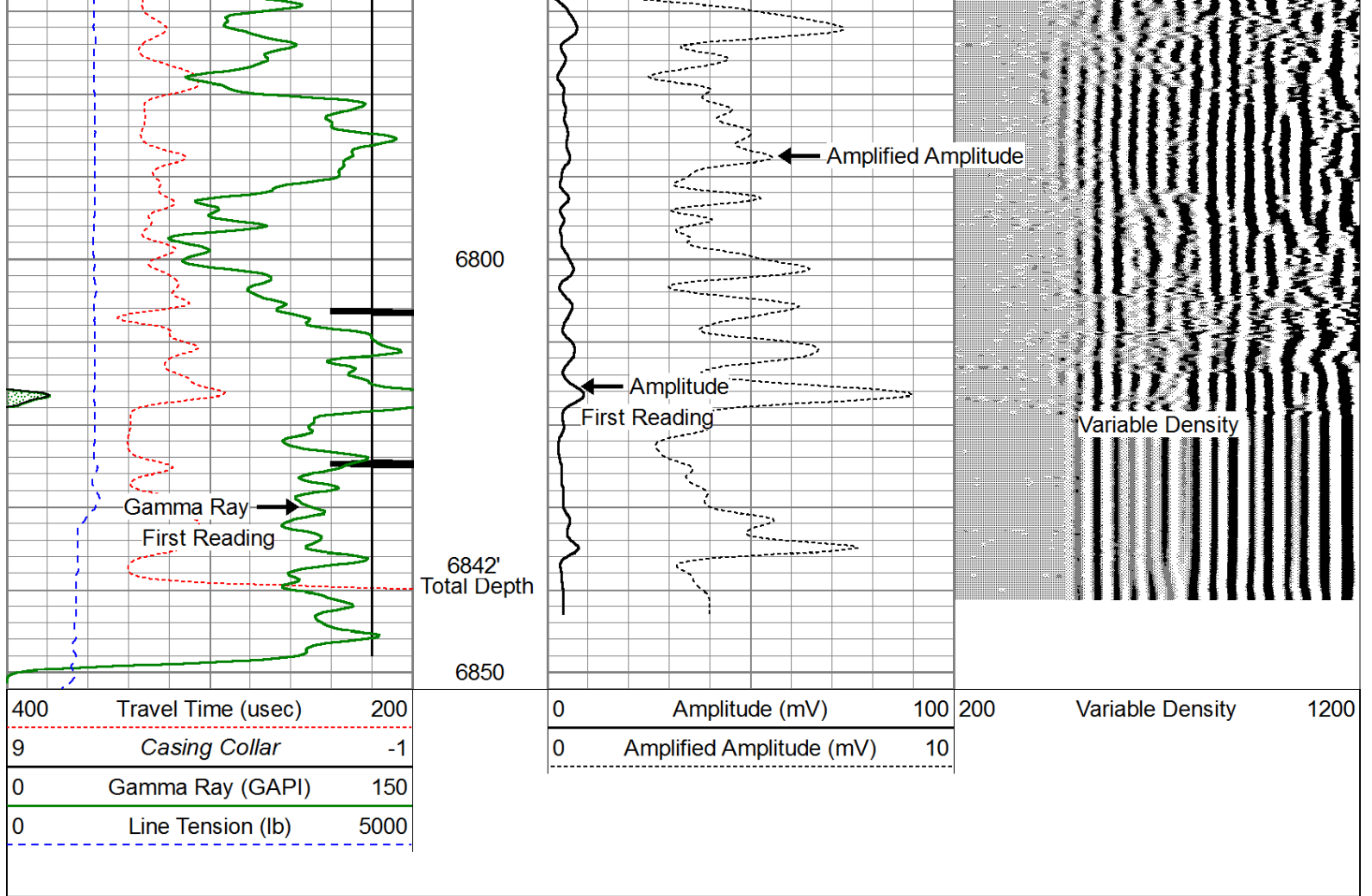
6400

6450

6500

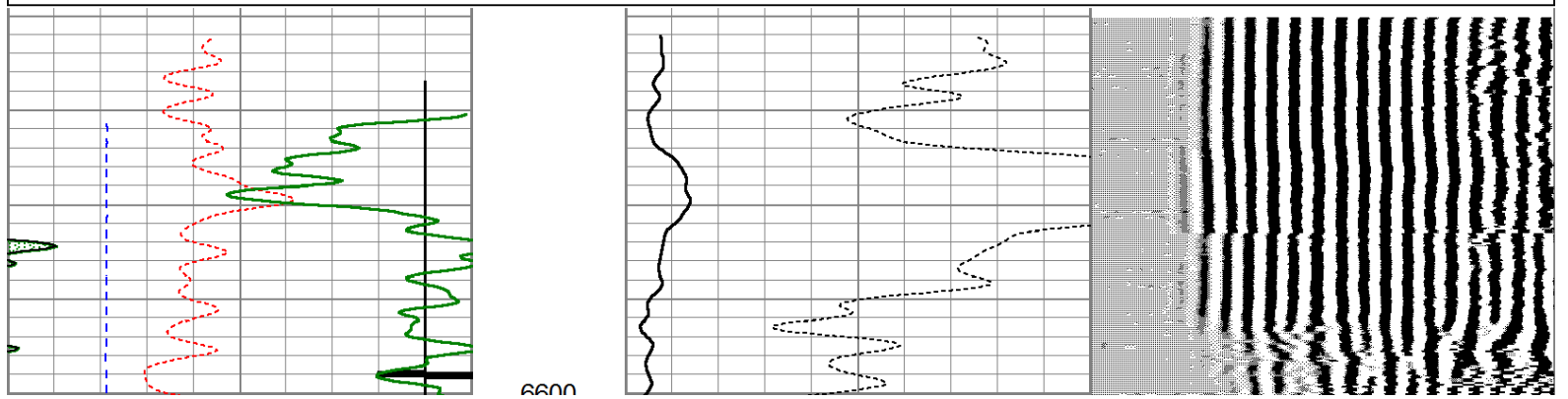
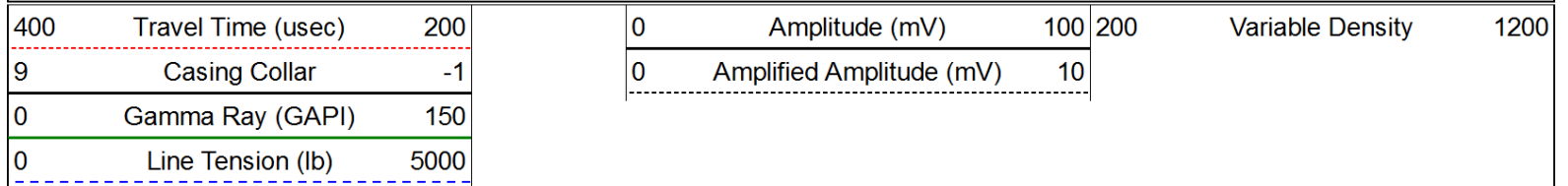


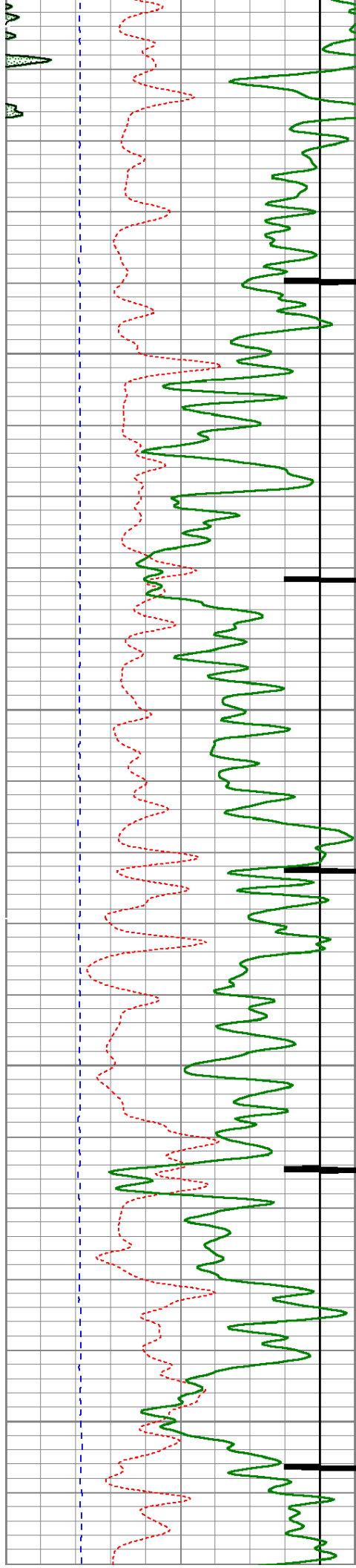




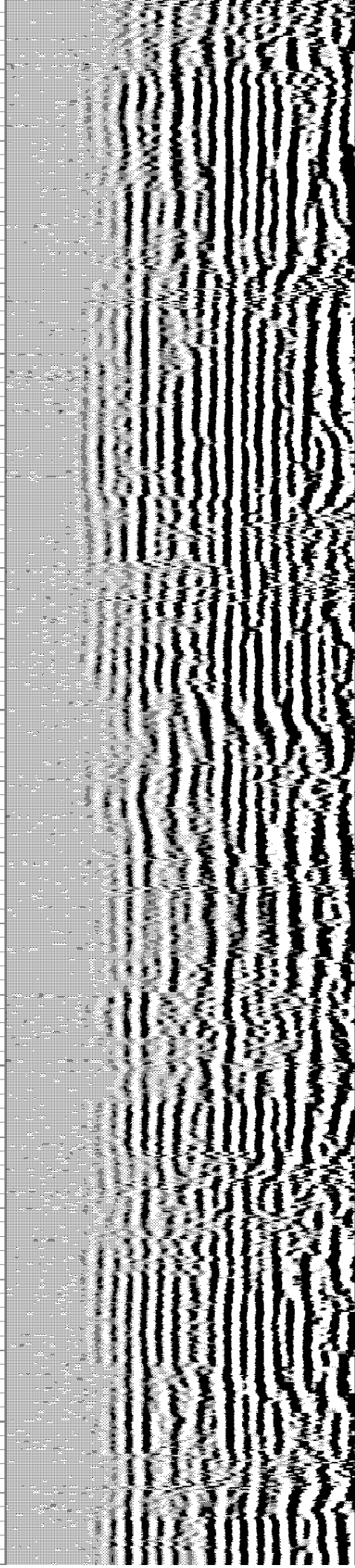
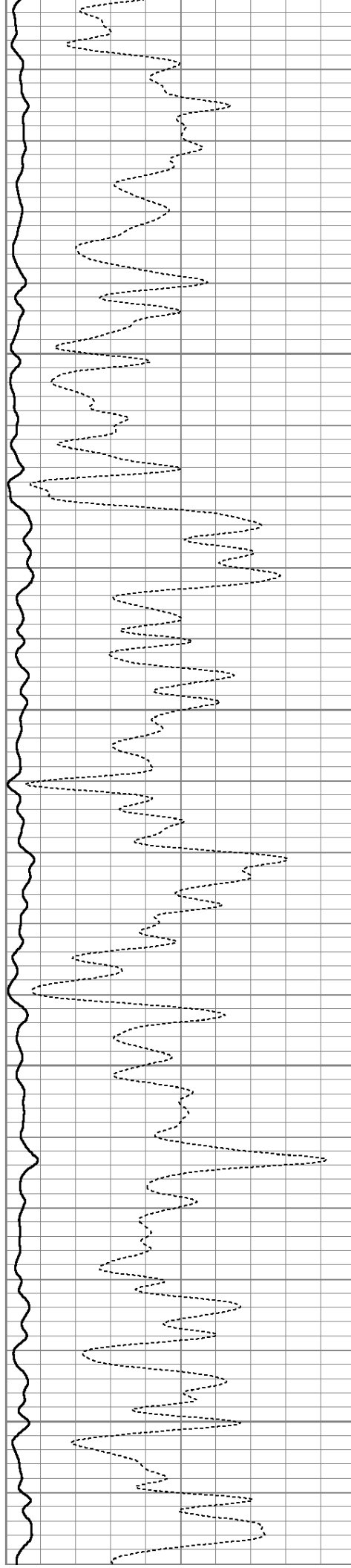
Repeat Section

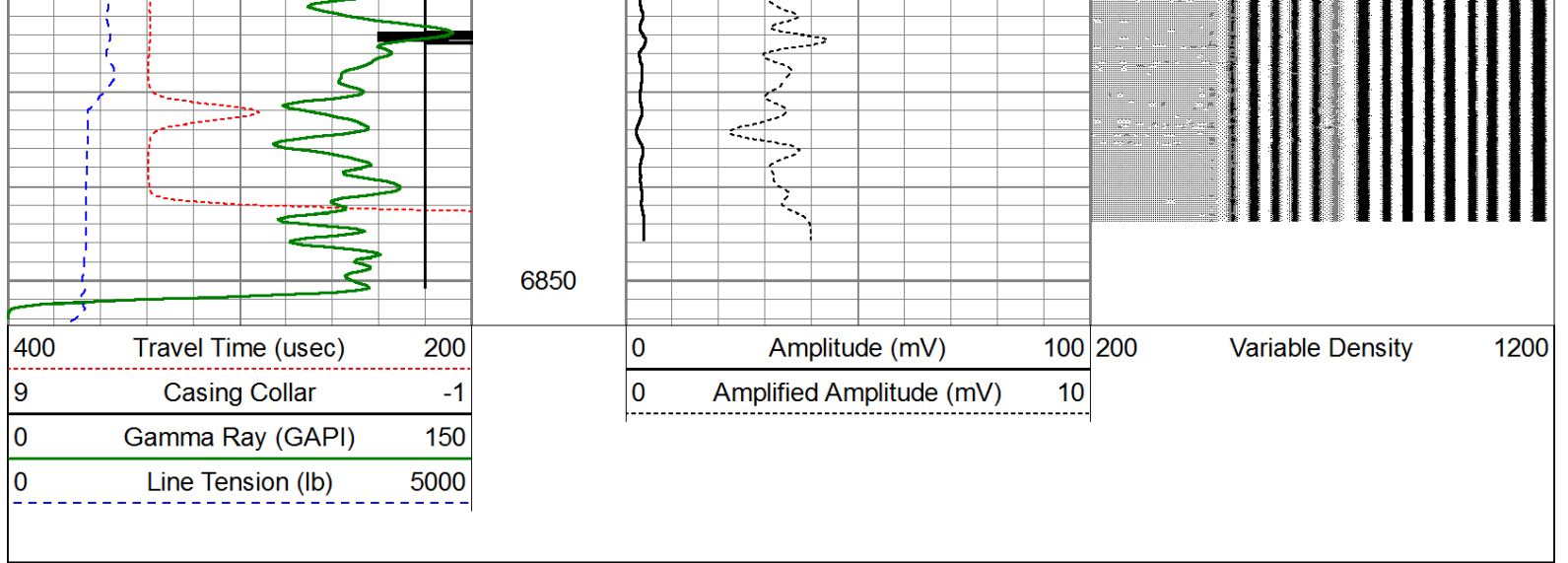
Database File: park t-p-4hc_cbl.db
 Dataset Pathname: pass2
 Presentation Format: cblprobe
 Dataset Creation: Mon Apr 14 11:11:06 2014 by Log 0
 Charted by: Depth in Feet scaled 1:240





6650
6700
6750
6800





Calibration Report		
Database File:	park t-p-4hc_cbl.db	
Dataset Pathname:	pass4	
Dataset Creation:	Mon Apr 14 11:17:49 2014 by Log 0	

Gamma Ray Calibration Report		
Serial Number:	110108-Dig	
Tool Model:	Probe275	
Performed:	Fri Nov 29 14:39:10 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8500	GAPI/cps

Temperature Calibration Report		
Serial Number:	110108-Dig	
Tool Model:	Probe275	
Performed:	Sun Jun 13 13:33:21 1993	
	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	1.00 degF	1.00 cps
Gain:	1.00	
Offset:	0.00	
Delta Spacing	2	

Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1310-35	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	3878.127	ft

Master Calibration, performed Mon Apr 14 09:15:20 2014:						
Raw (v)		Calibrated (mv)		Results		
Zero	Cal	Zero	Cal	Gain	Offset	
0.004	0.004	0.000	00.105	00.734	0.004	

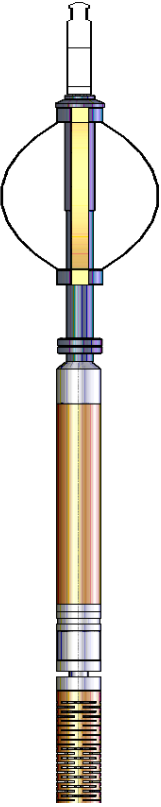
S	-0.021	0.621	2.000	62.165	93.734	3.994
CAL	-0.021	1.589				
5'	-0.021	0.621	2.000	62.165	93.797	3.959
SUM						
S1	0.019	0.605	0.000	100.000	170.571	-3.275
S2	-0.022	0.496	0.000	100.000	192.826	4.305
S3	-0.021	0.407	0.000	100.000	233.697	4.815
S4	-0.021	0.539	0.000	100.000	178.421	3.759
S5	-0.021	0.548	0.000	100.000	175.704	3.668
S6	-0.021	0.533	0.000	100.000	180.496	3.801
S7	-0.021	0.515	0.000	100.000	186.479	3.931
S8	-0.021	0.505	0.000	100.000	189.946	4.000

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.021	1.589	1.000	0.000

Air Zero Calibration, performed Mon Apr 14 08:33:17 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
WVF3FT	11.84		Titan Cable_head	1.00	1.44	10.00
			Probe275 2.75" Centralizer	2.88	2.75	20.00
			RBT-Probe (FW1310-35) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00

[illegible]