



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

Company		Bonanza Creek Energy					
Well		State North Platte O24-K21-26 HNB					
Field		Wattenberg					
County		Weld					
State		Colorado					
Location:		API # : 05-123-38308					
SEC 26 TWP 5N RGE 63W		Other Services NONE					
Permanent Datum		Ground Level		Elevation			
Log Measured From		Kelly Bushing 17' APD		4550'			
Drilling Measured From		Kelly Bushing		K.B. 4567' D.F. 4566' G.L. 4550'			
Date	December 27, 2013						
Run Number	1						
Depth Driller	10830'						
Depth Logger	6250'						
Bottom Logged Interval	6238'						
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	290'						
Time Well Ready	1000						
Time Logger on Bottom	1030						
Equipment Number	13033						
Location	Brighton						
Recorded By	R.Grisson						
Witnessed By	K. Dodge						
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	422'		
Prot. String							
Production String	7"	26#		0	6525'		
Liner	4 1/2"	11.6#		6425'	10830'		

<<< 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 17' Kelly Bushing

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



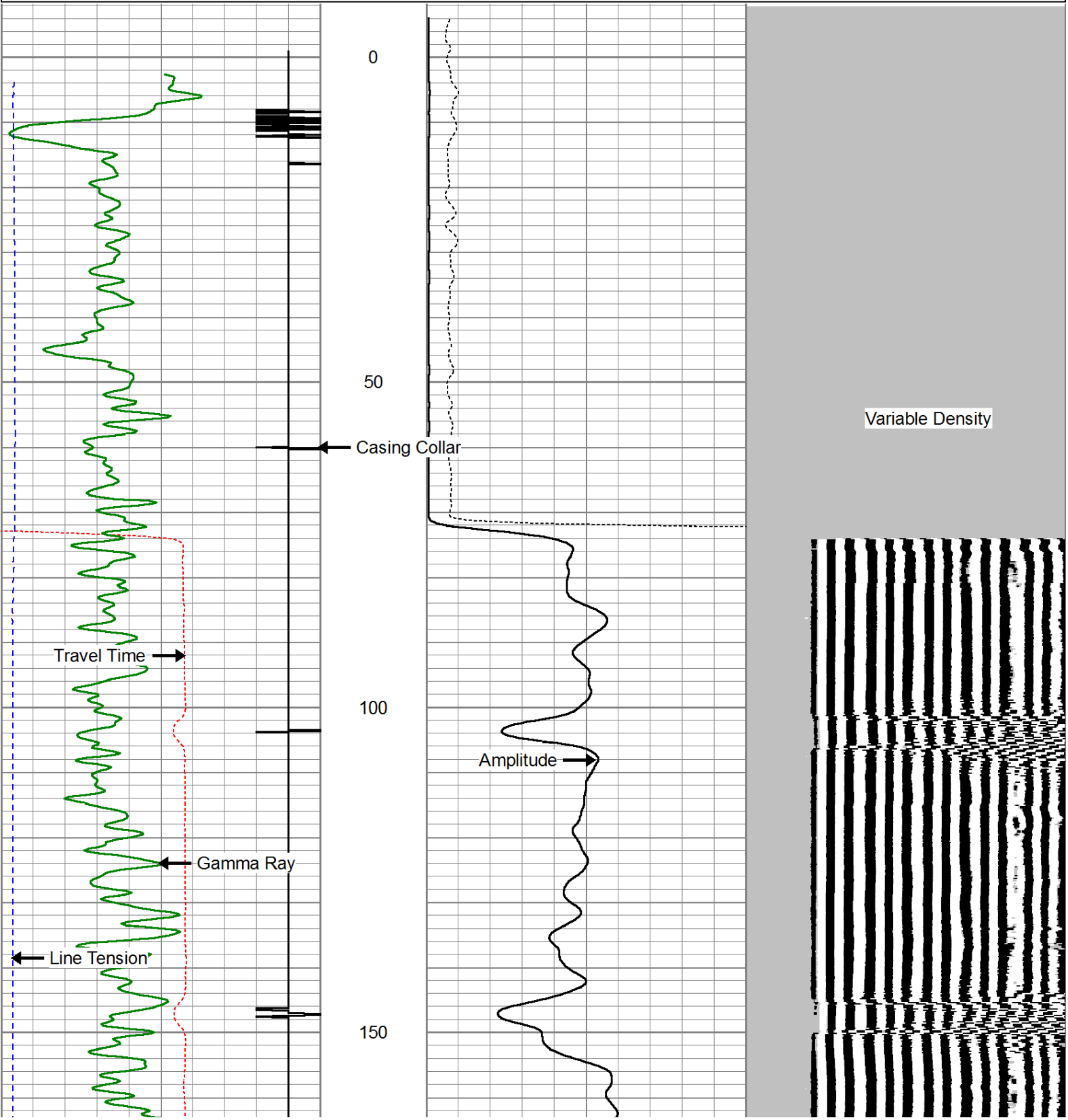
Main Pass (0 PSI)

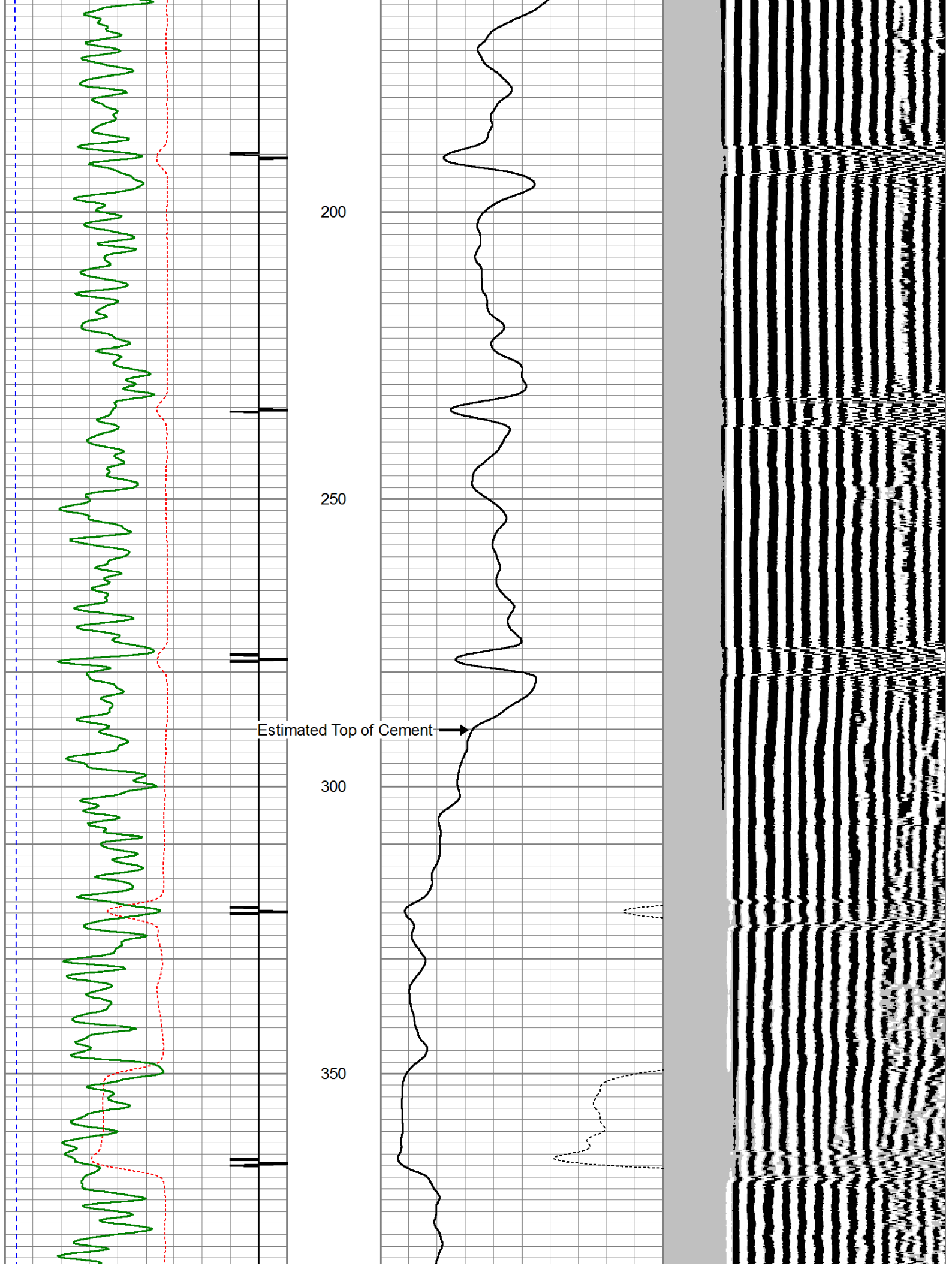
Database File: bonanza creek state north platte o24-k21-26 hnb_cbl.db
Dataset Pathname: pass3
Presentation Format: cblprobe
Dataset Creation: Fri Dec 27 10:42:12 2013 by Log 0
Charted by: Depth in Feet scaled 1:240

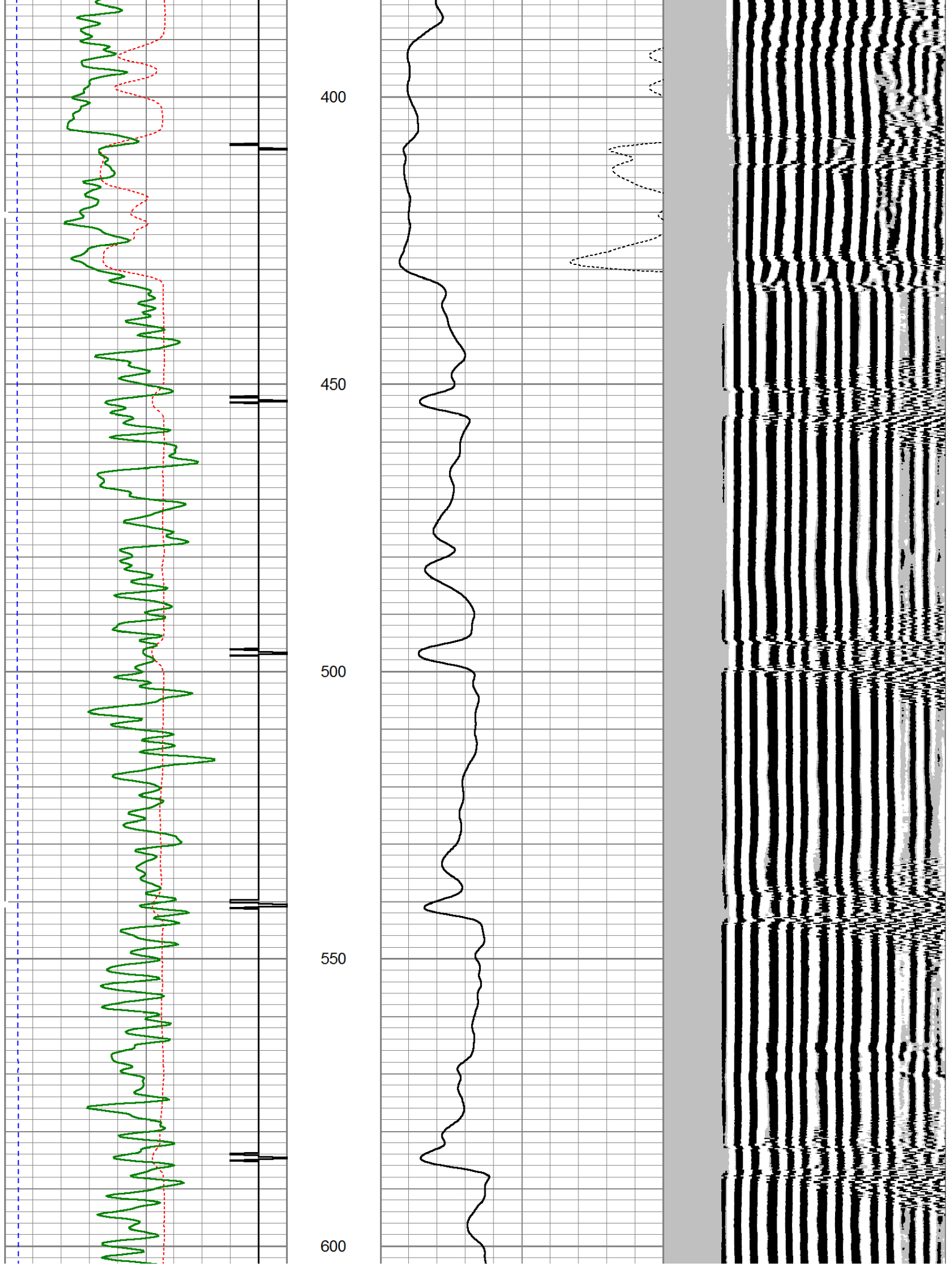
400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

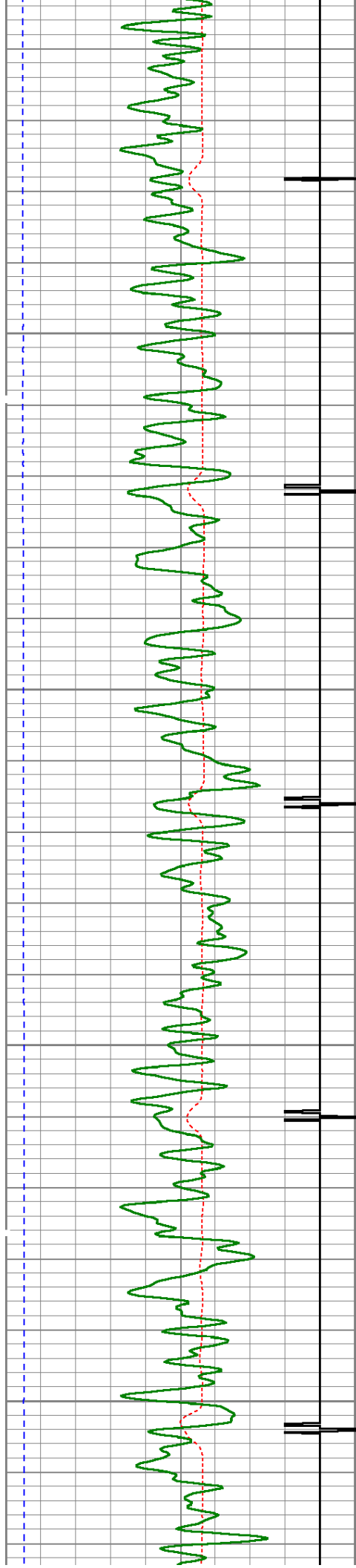
0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	10

200 Variable Density 1200







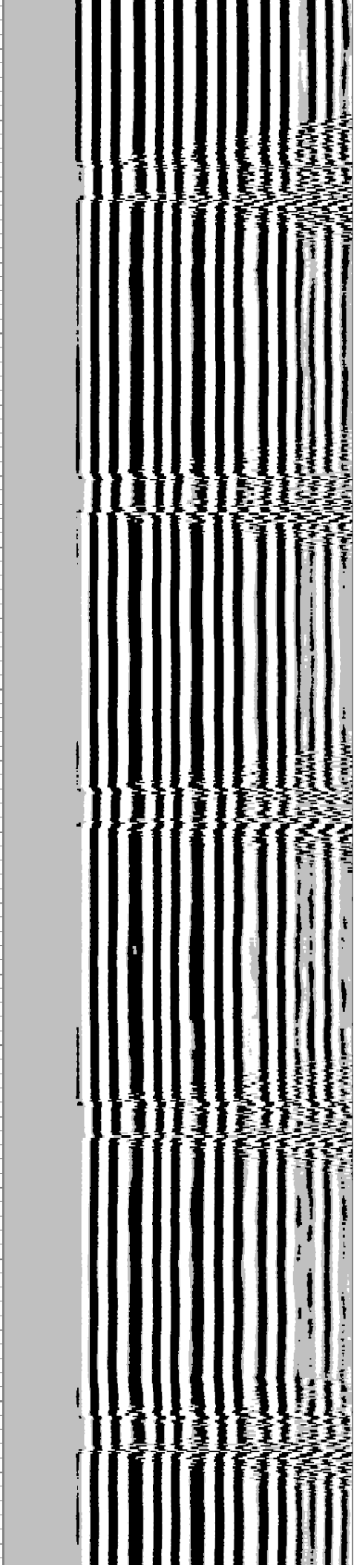
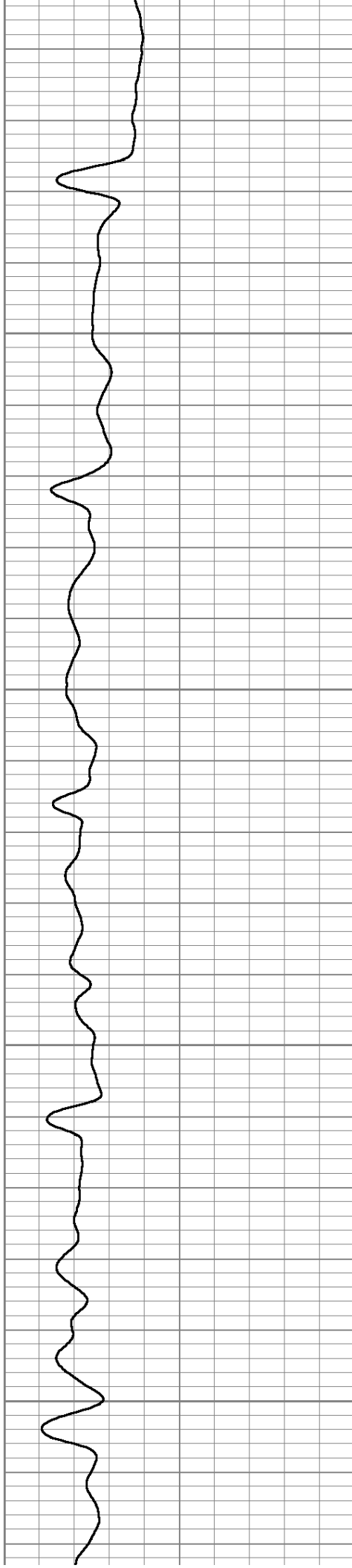


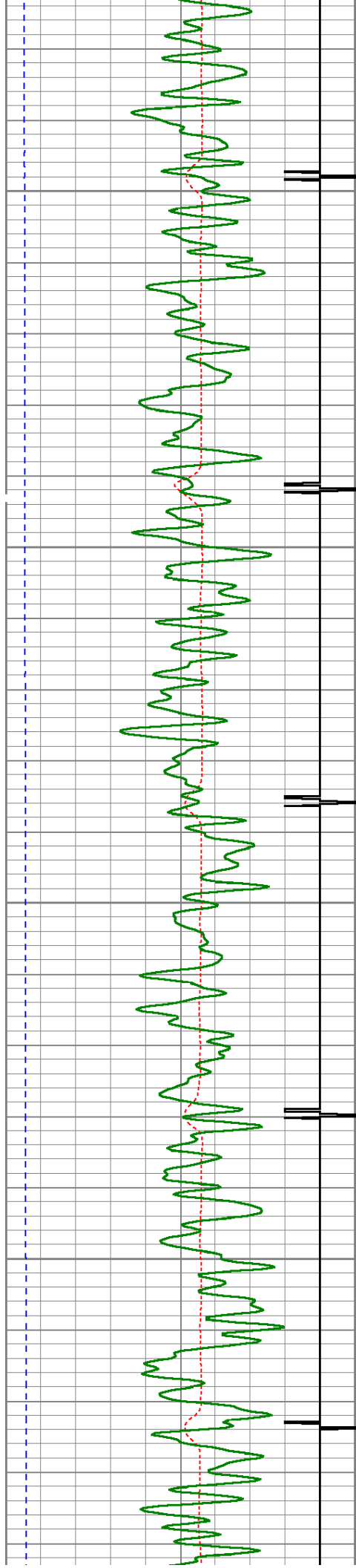
650

700

750

800



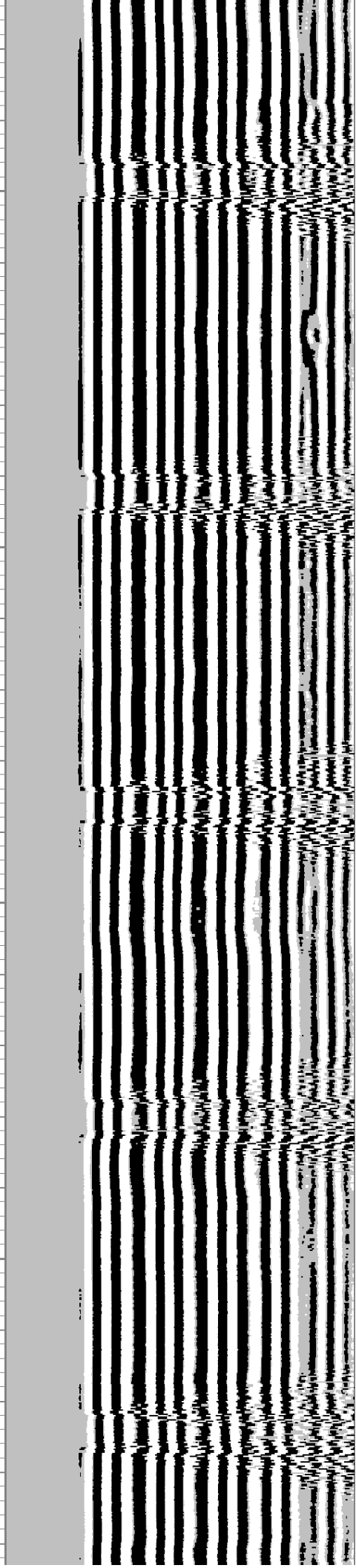
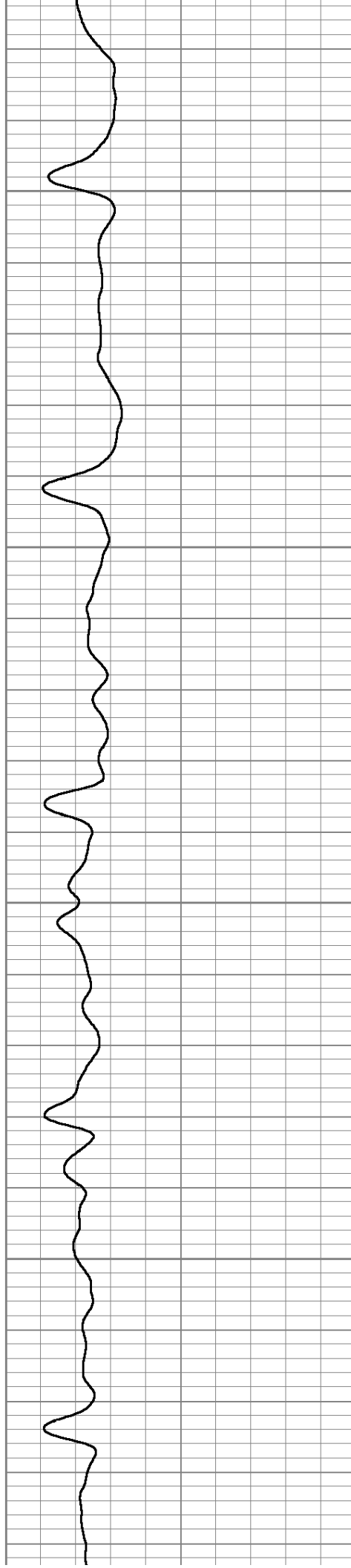


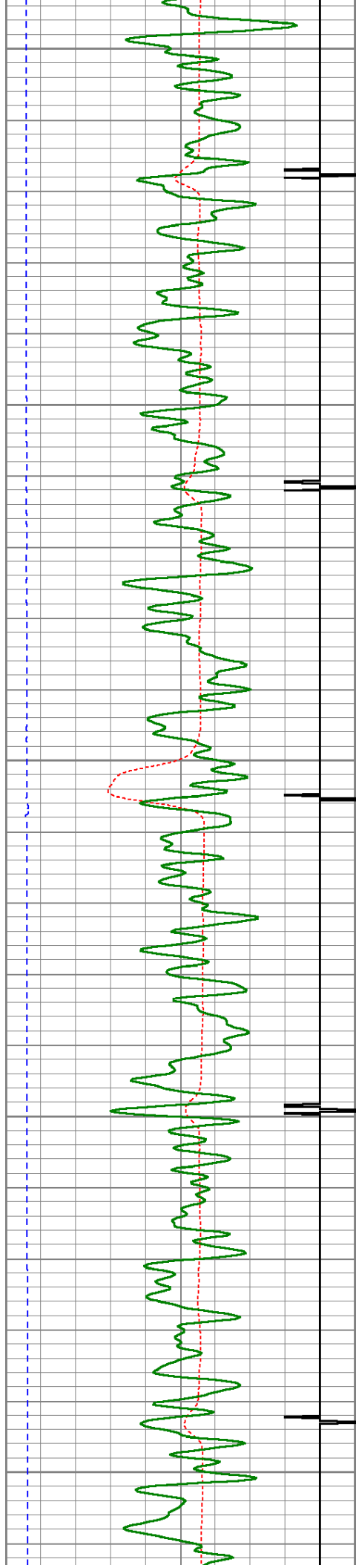
850

900

950

1000





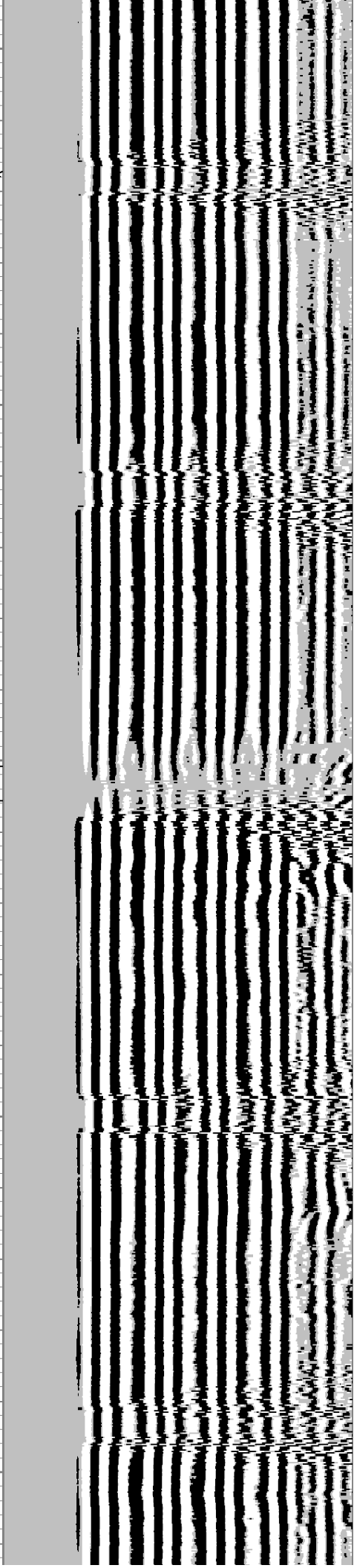
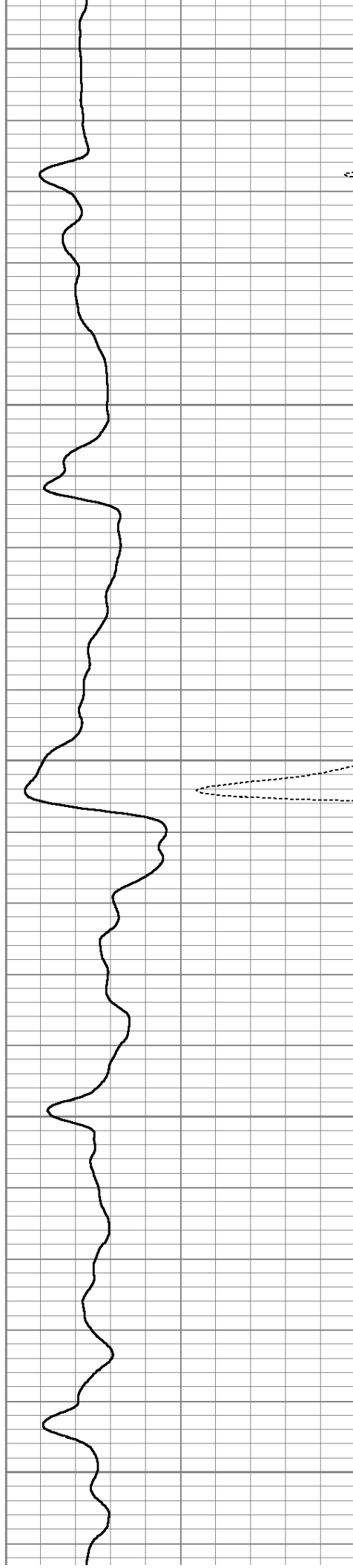
1050

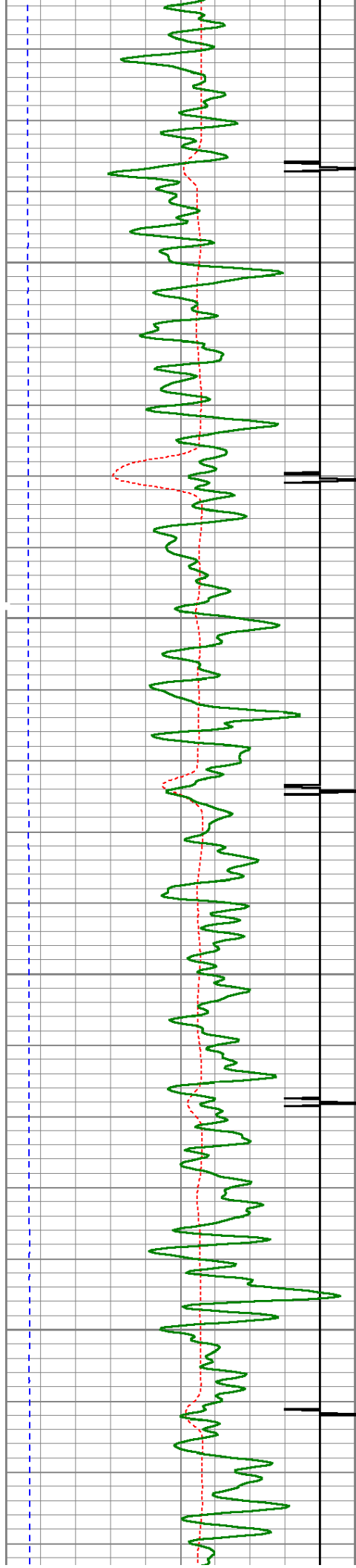
1100

1150

1200

1250



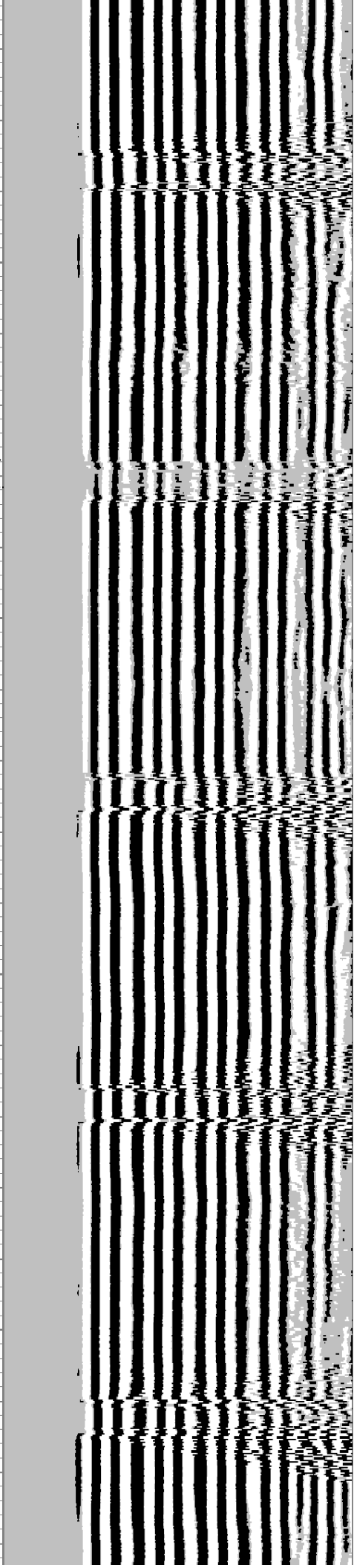
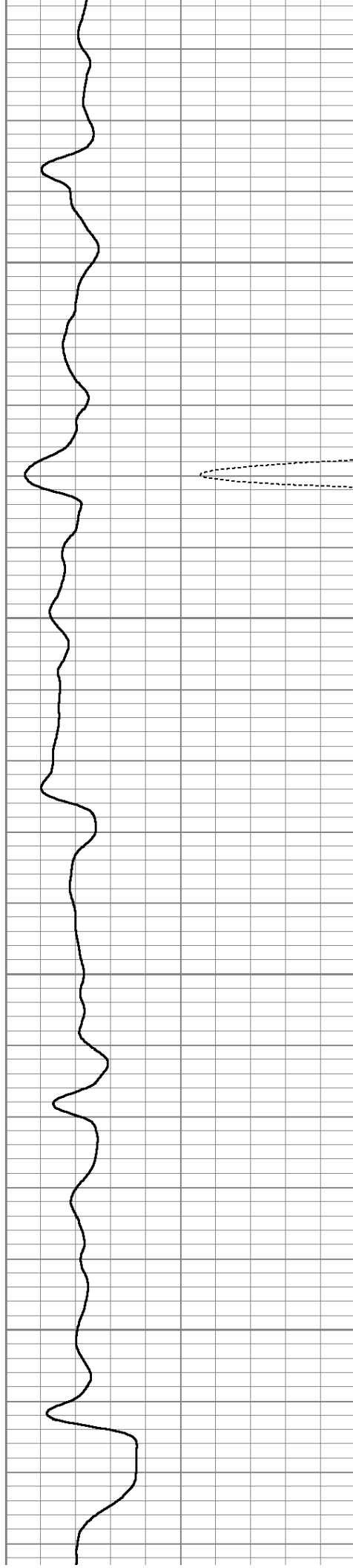


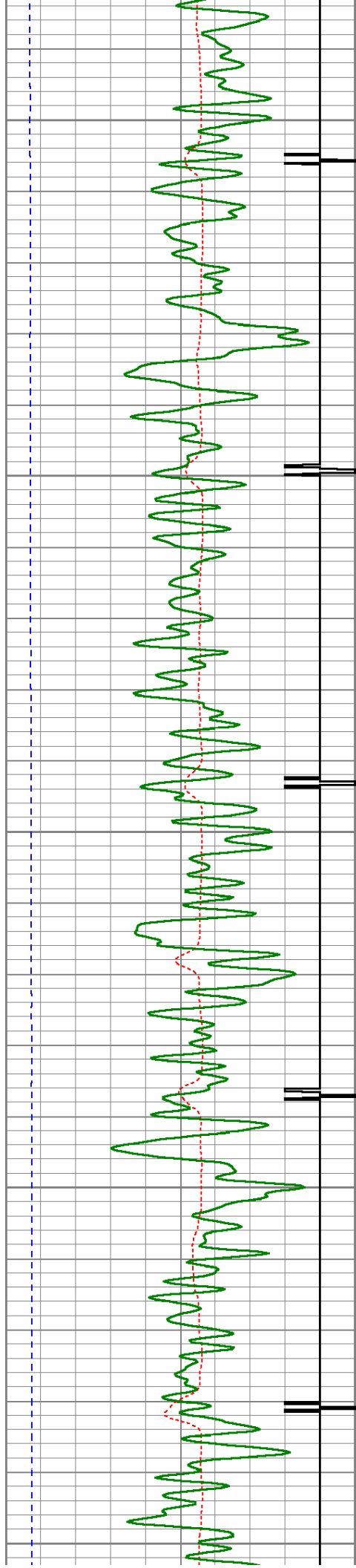
1300

1350

1400

1450





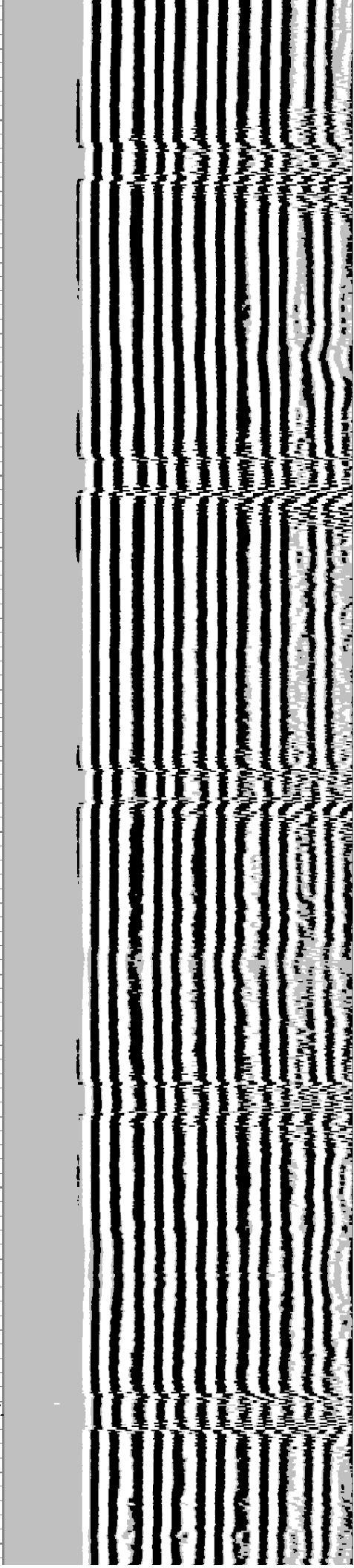
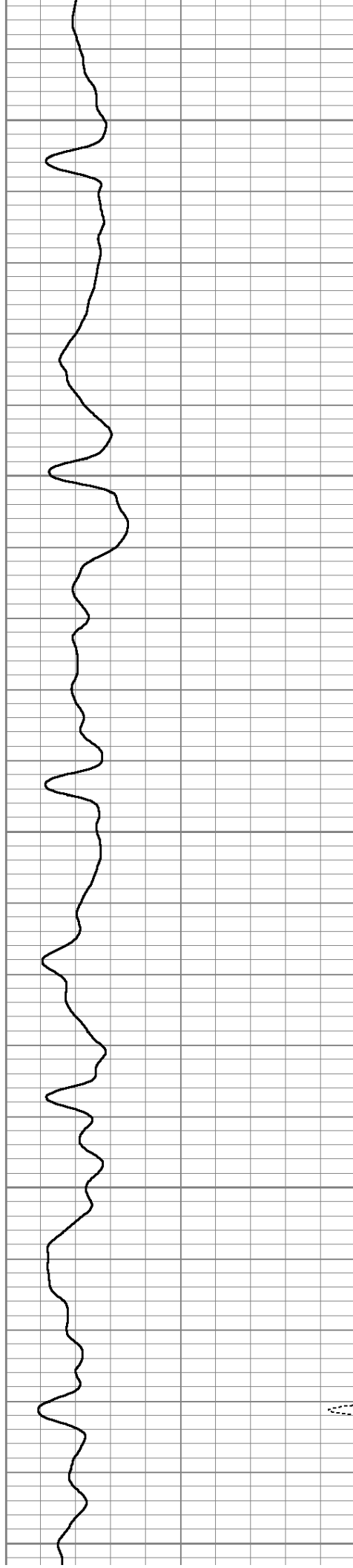
1500

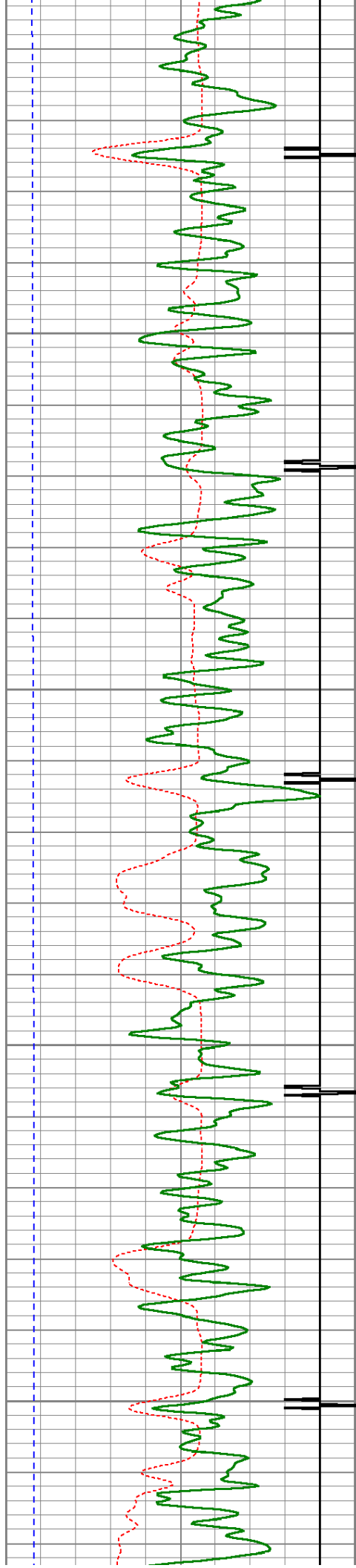
1550

1600

1650

1700



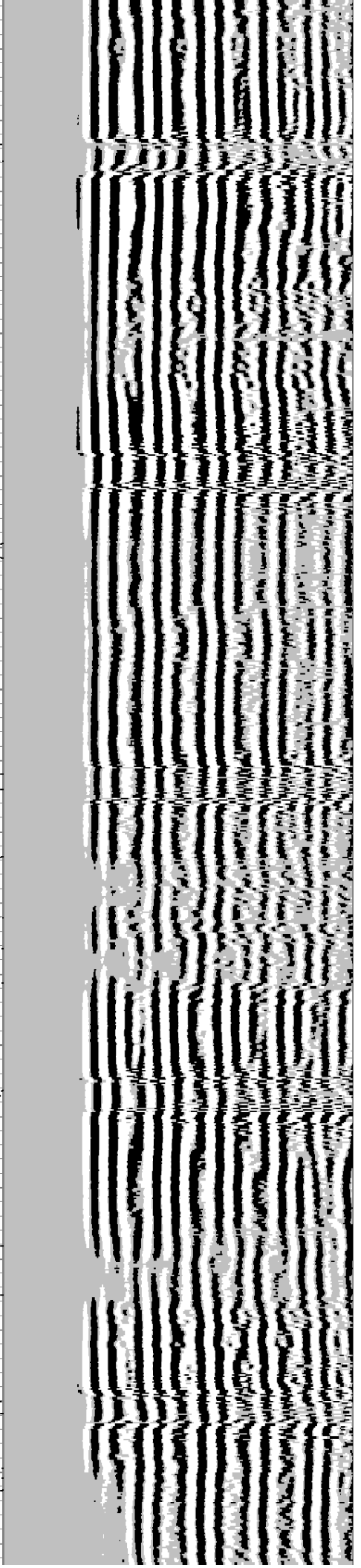
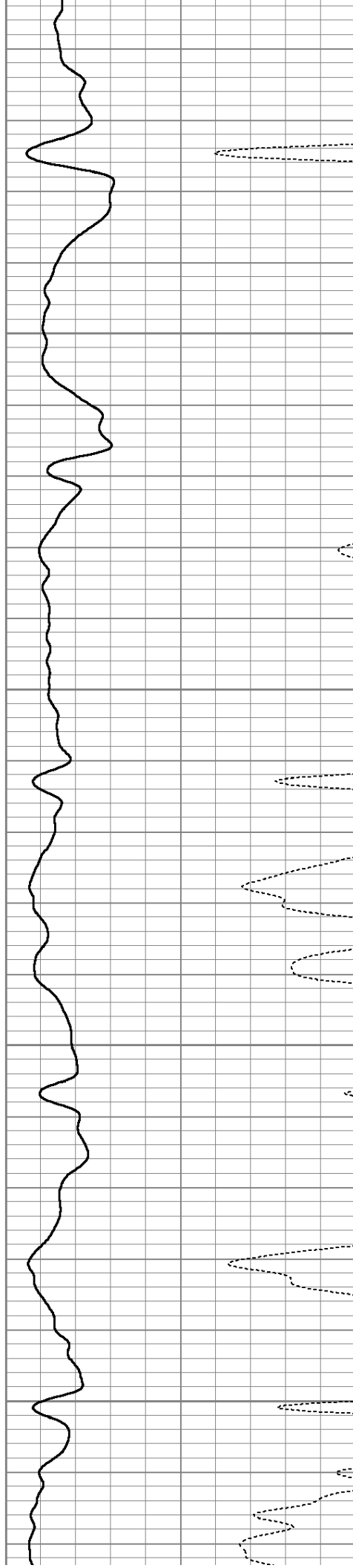


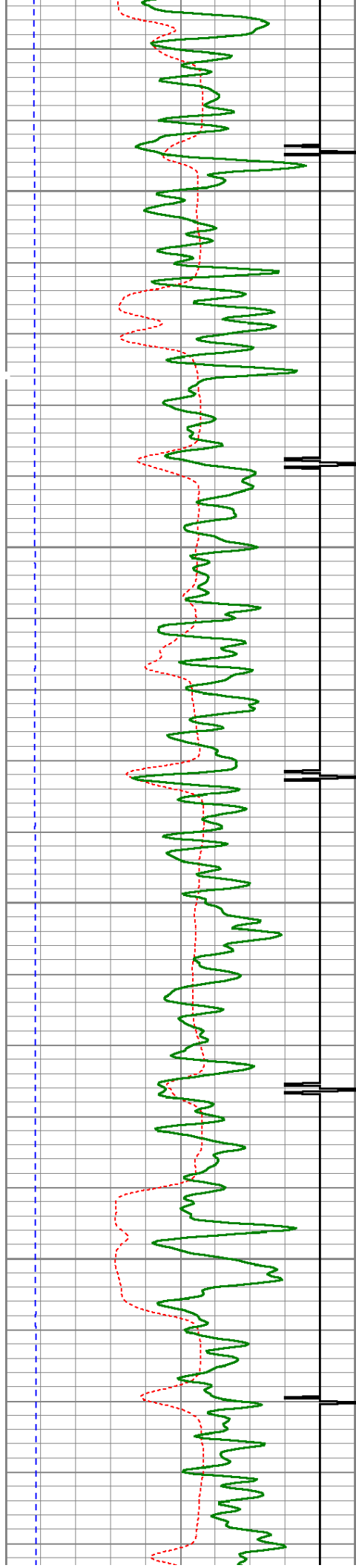
1750

1800

1850

1900



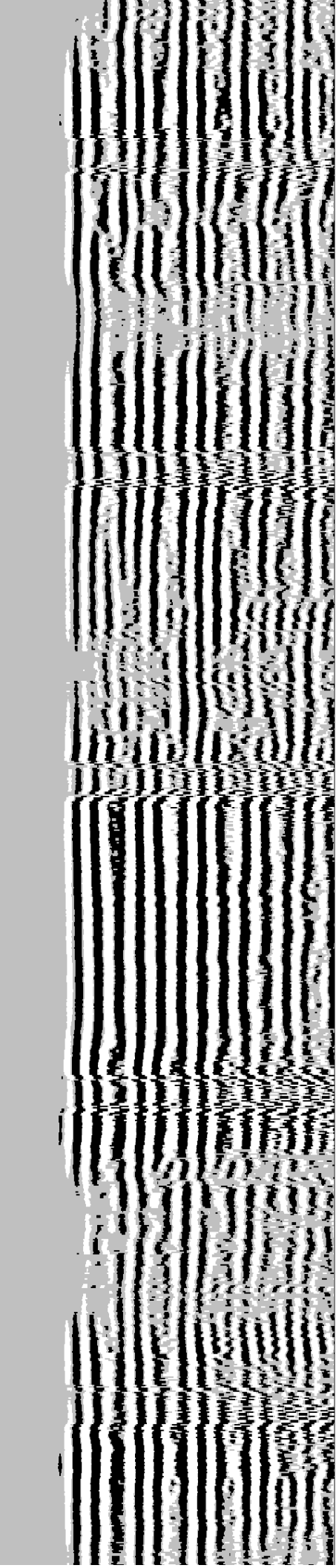
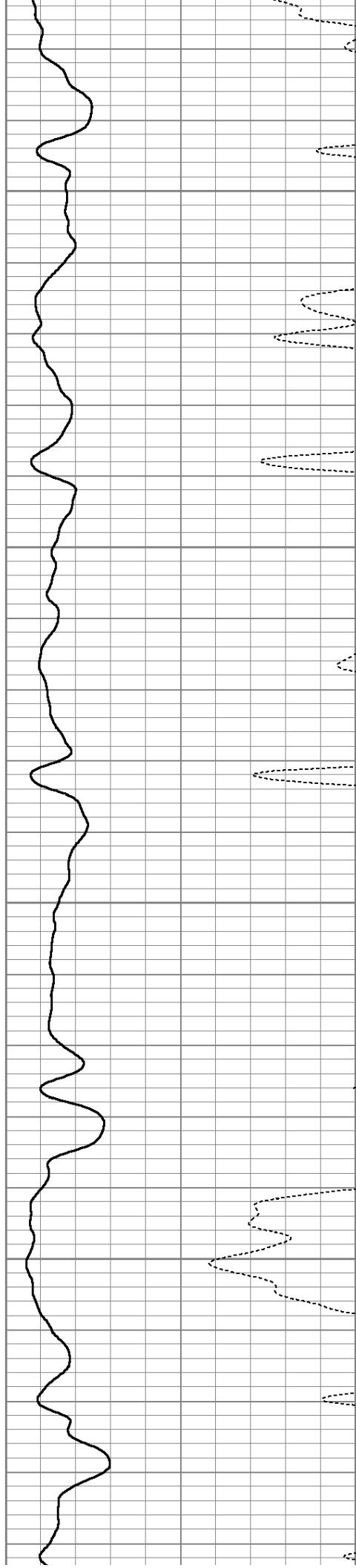


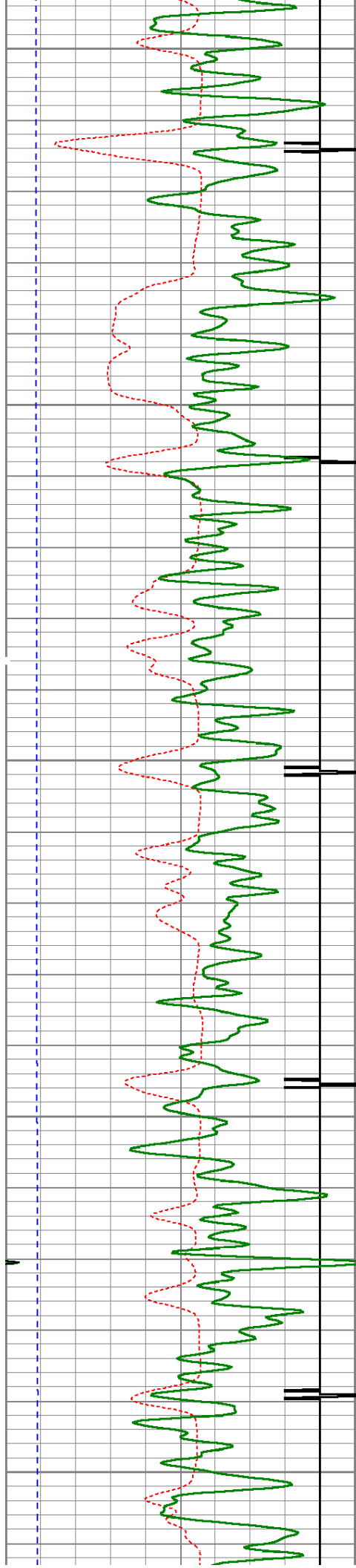
1950

2000

2050

2100





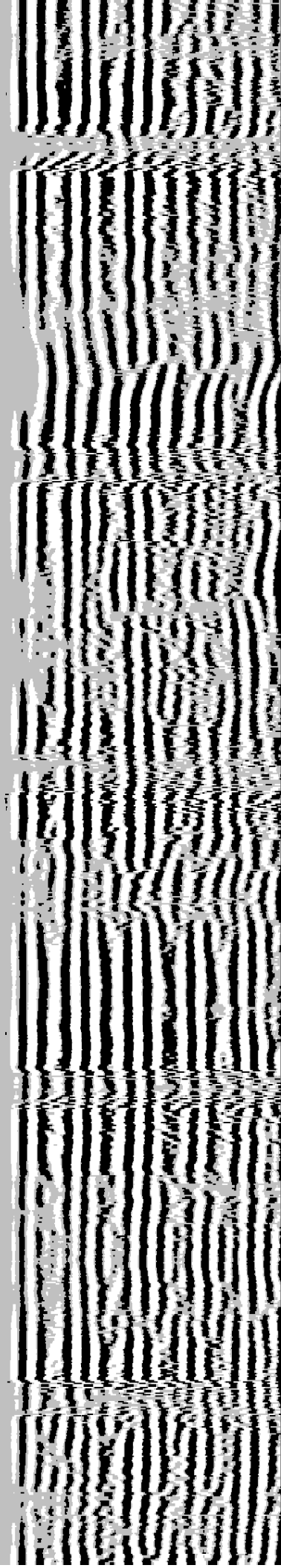
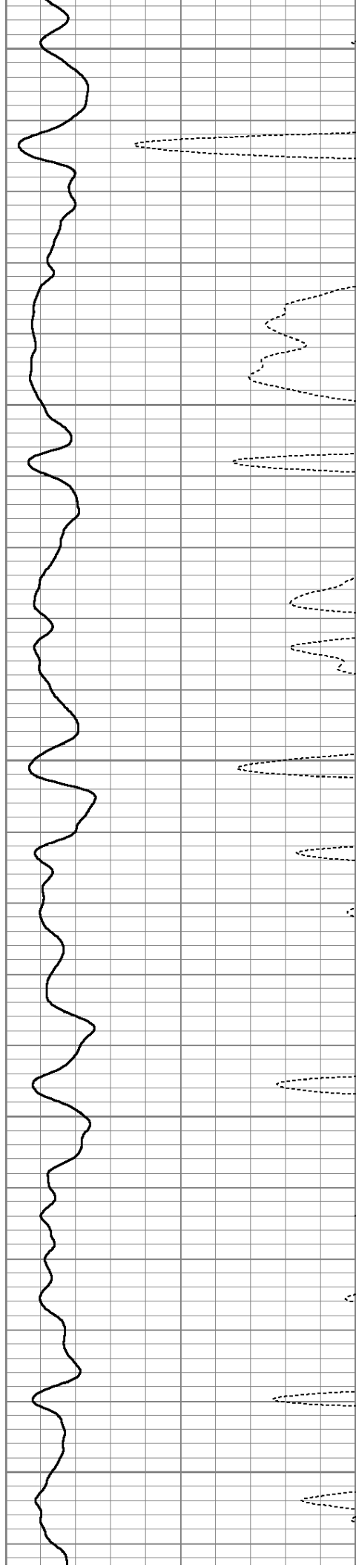
2150

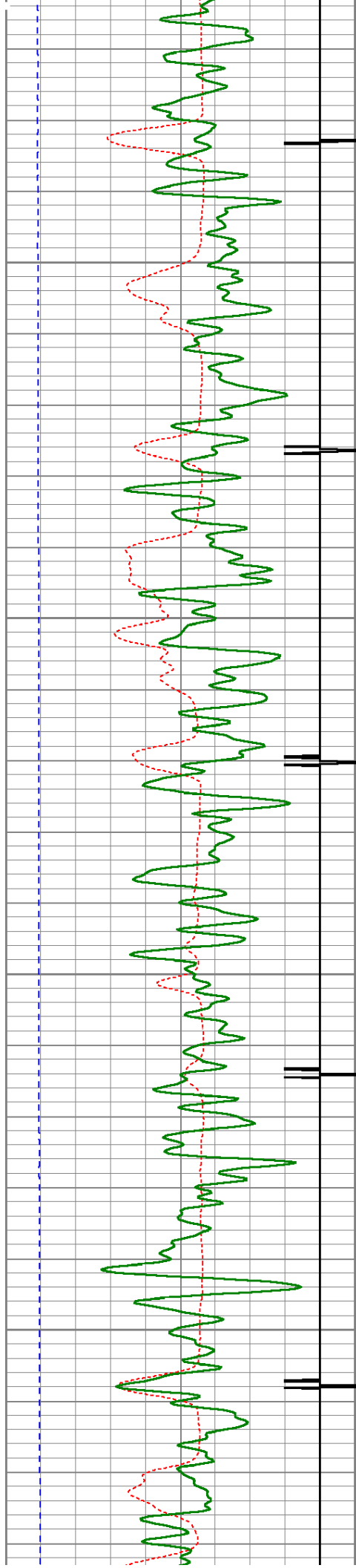
2200

2250

2300

2350



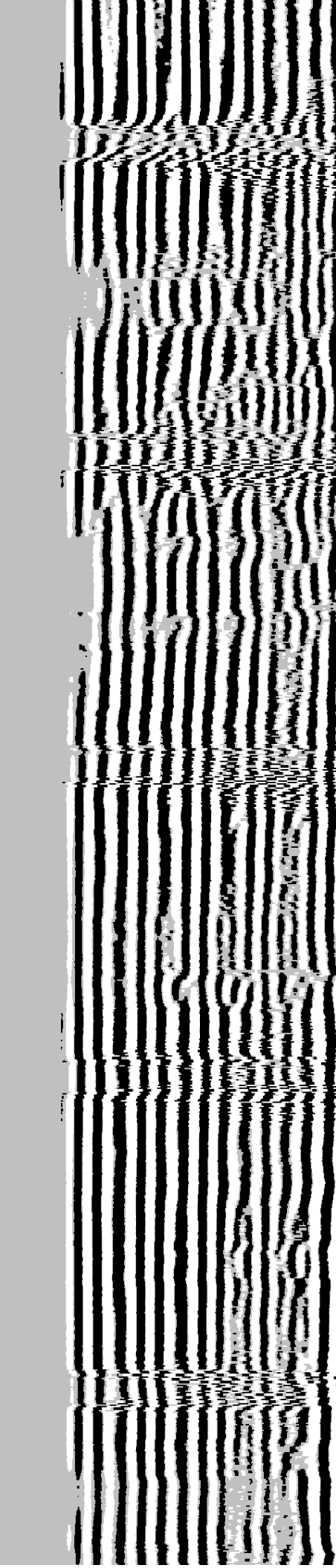
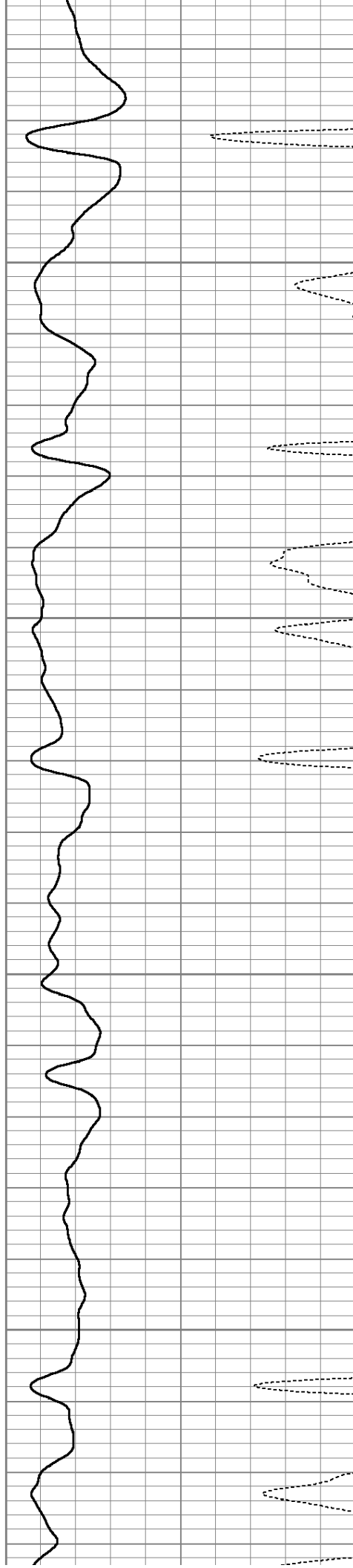


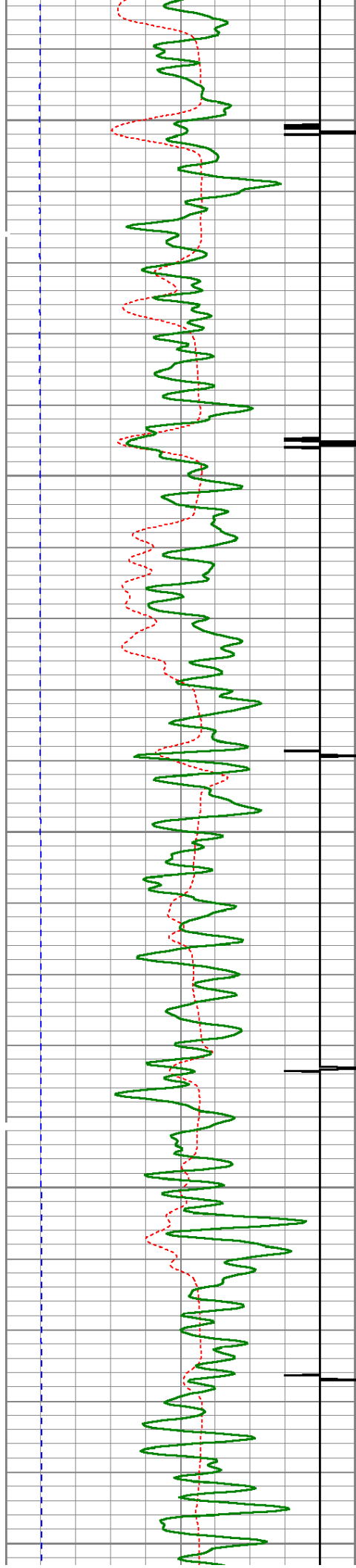
2400

2450

2500

2550





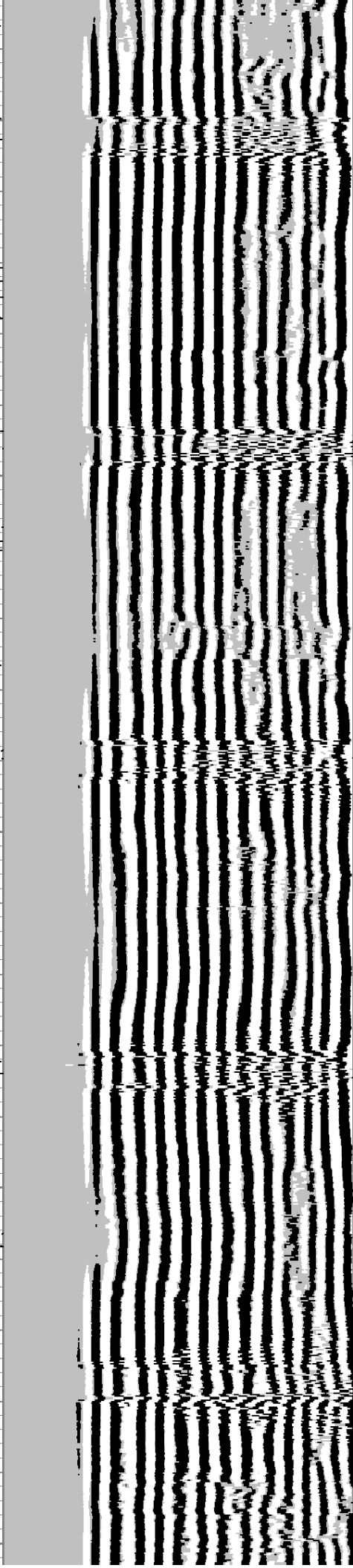
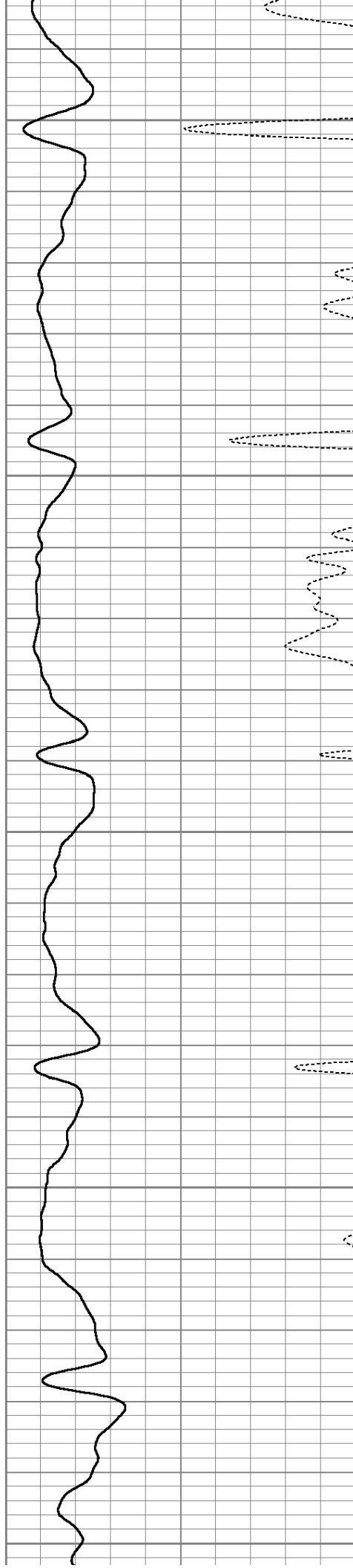
2600

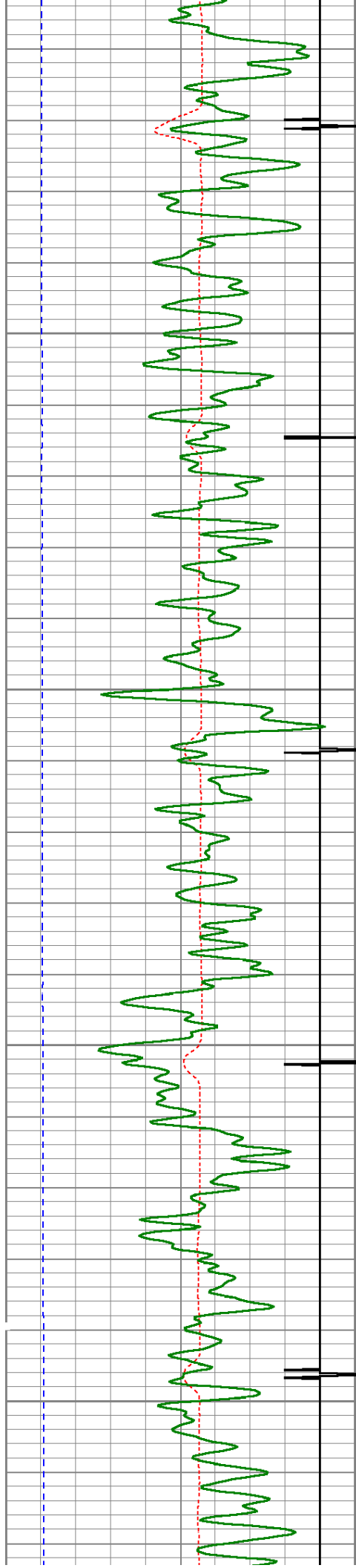
2650

2700

2750

2800



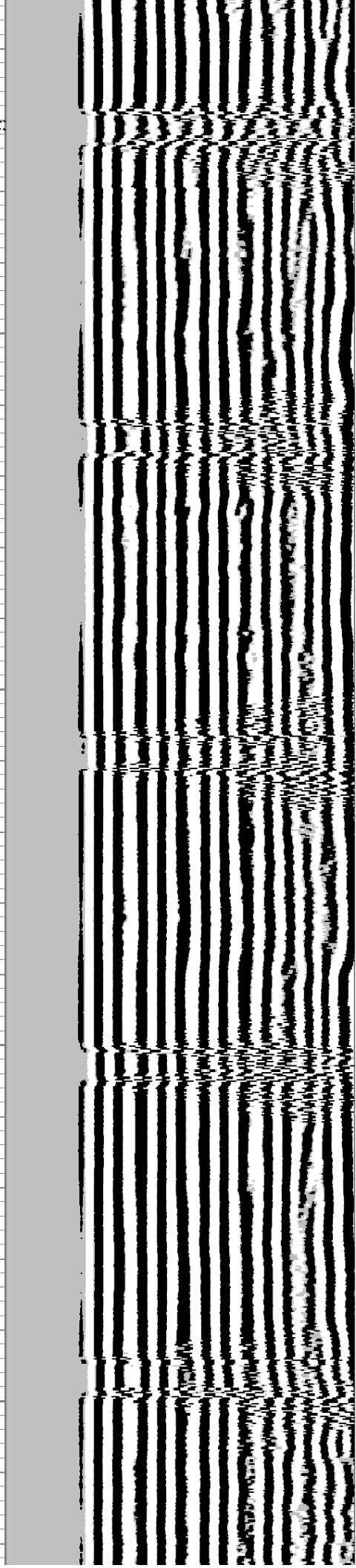
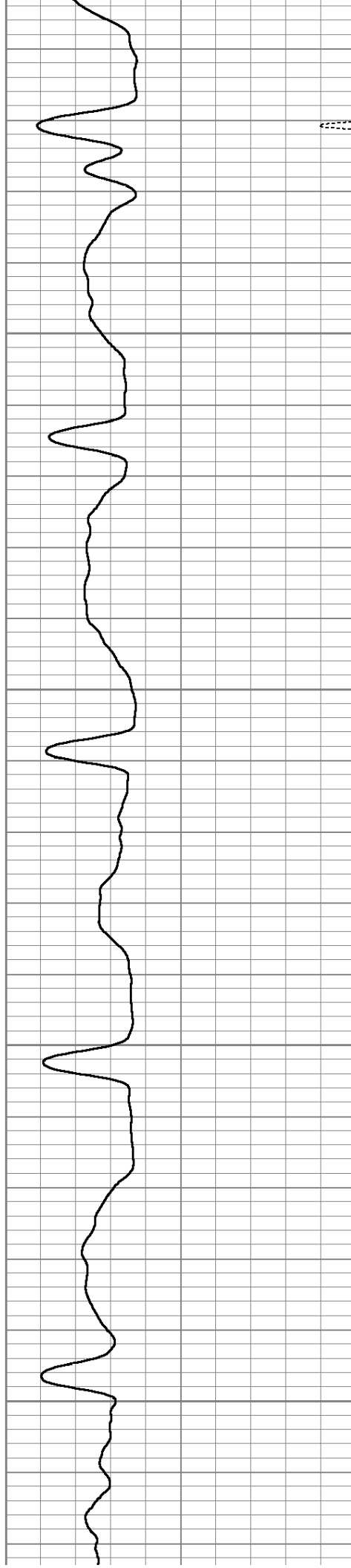


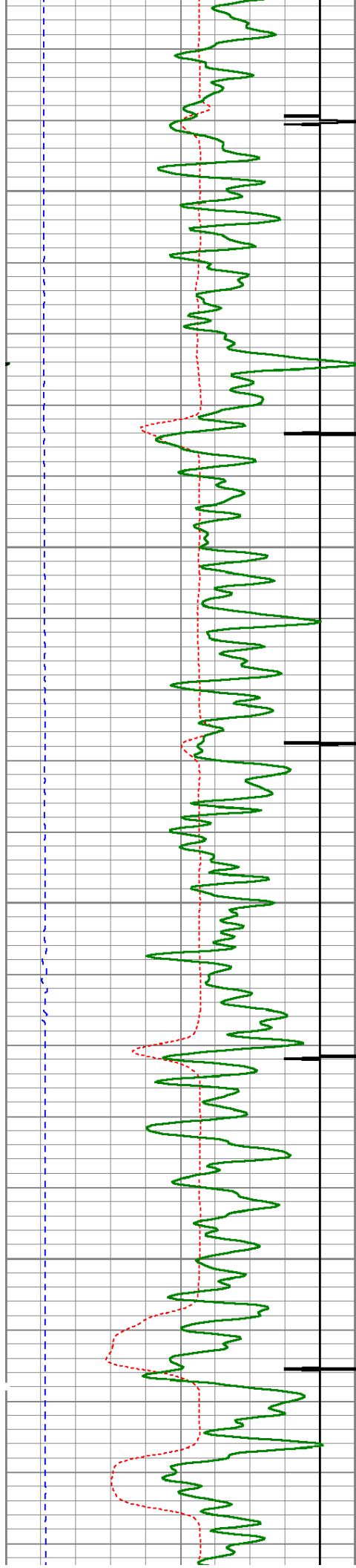
2850

2900

2950

3000



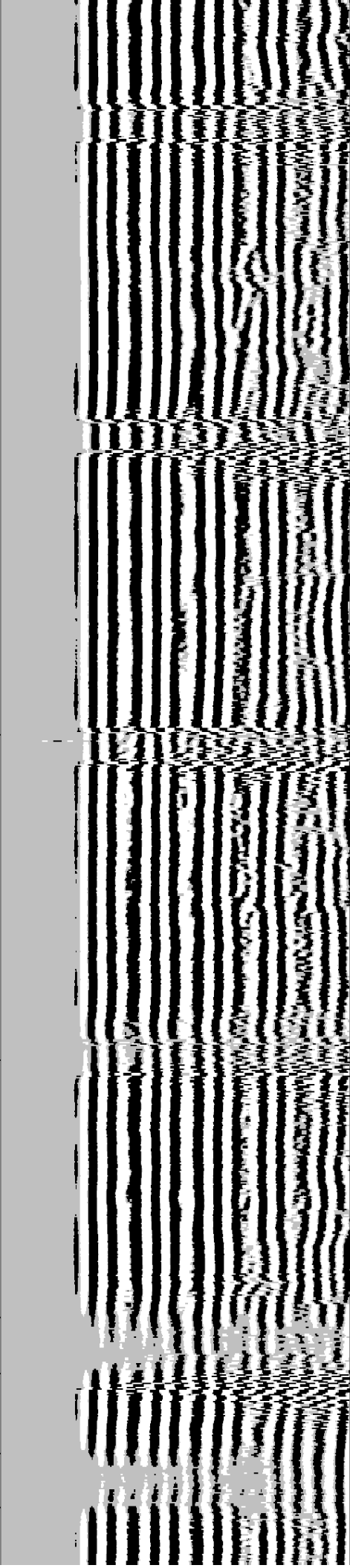
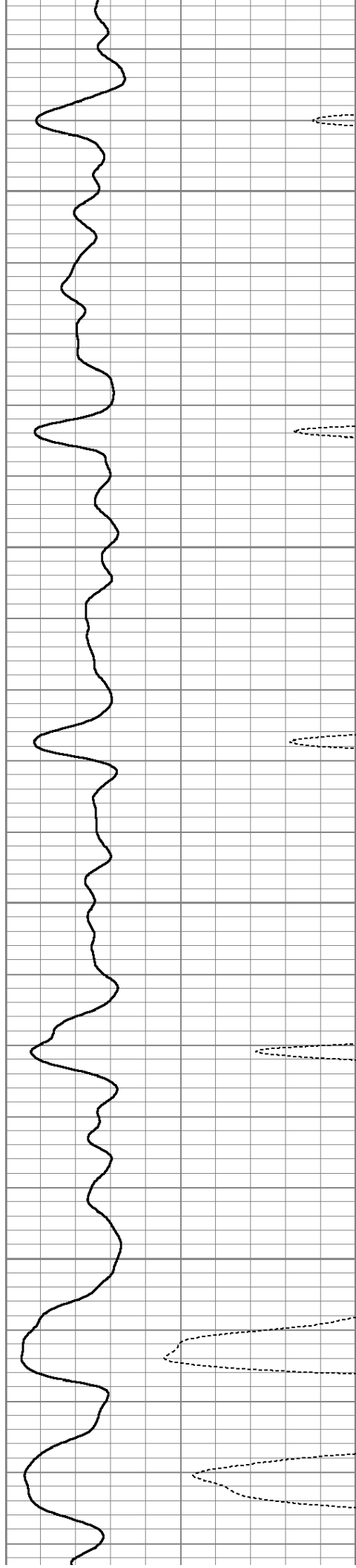


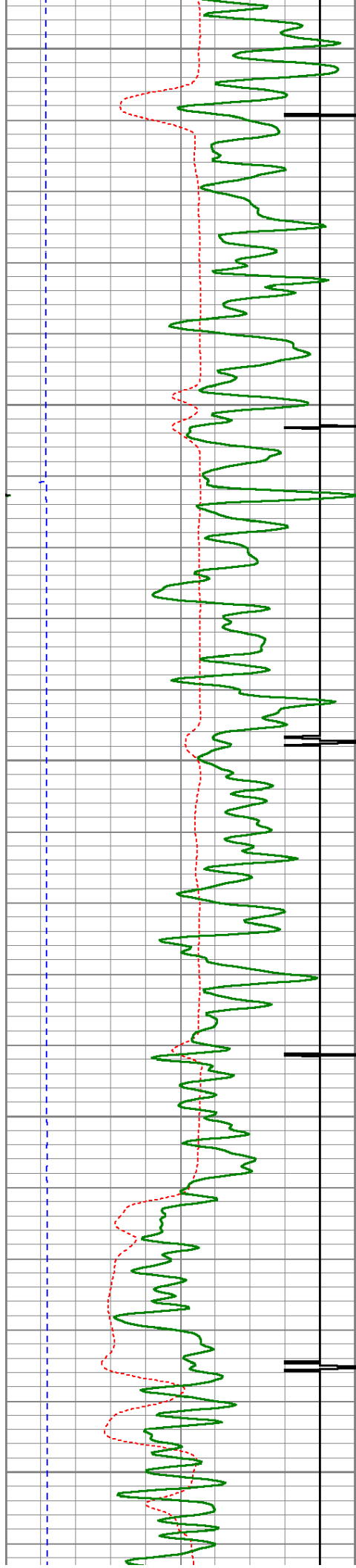
3050

3100

3150

3200





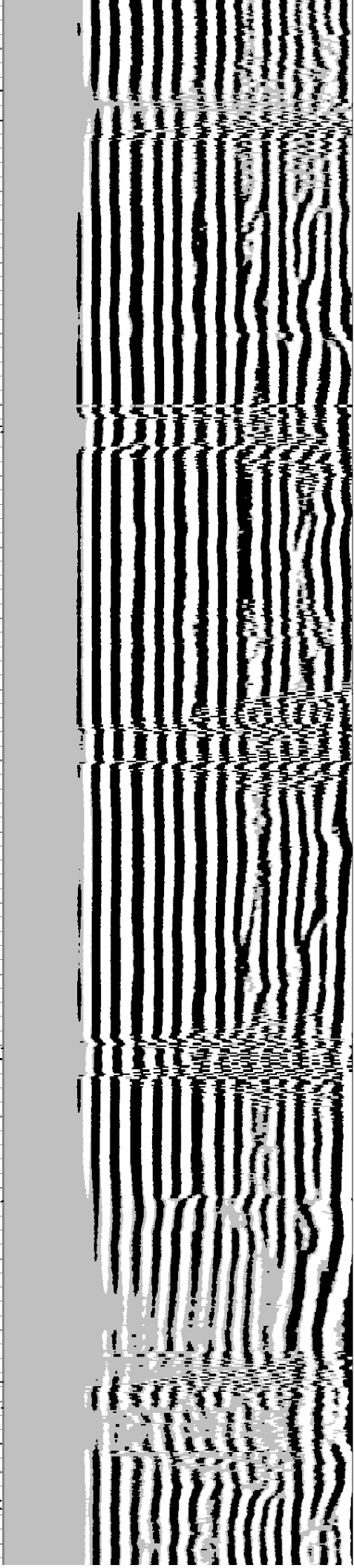
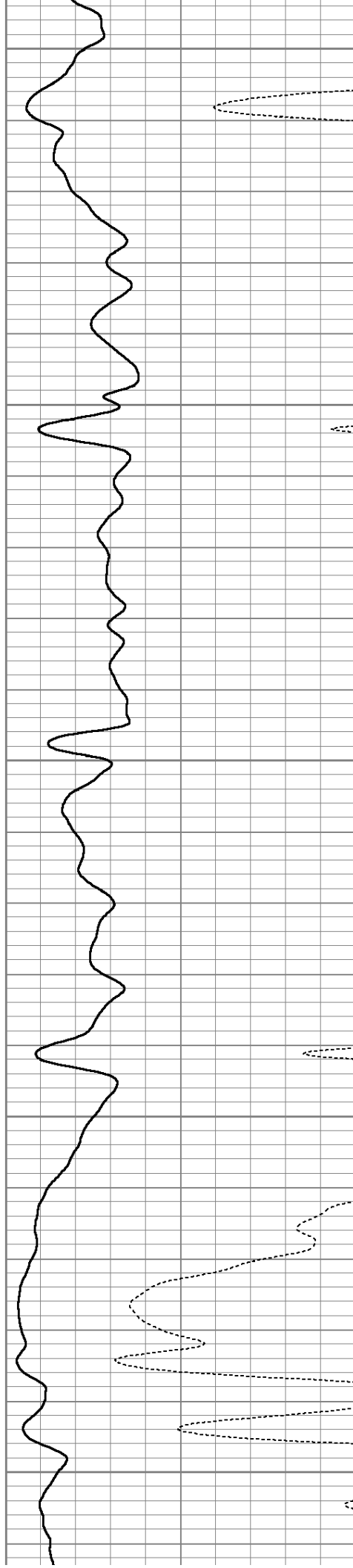
3250

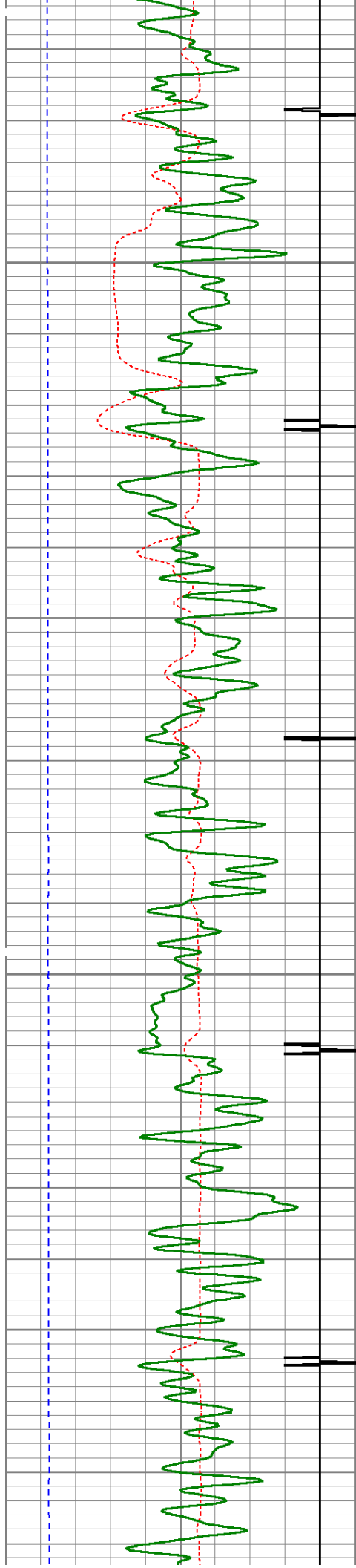
3300

3350

3400

3450



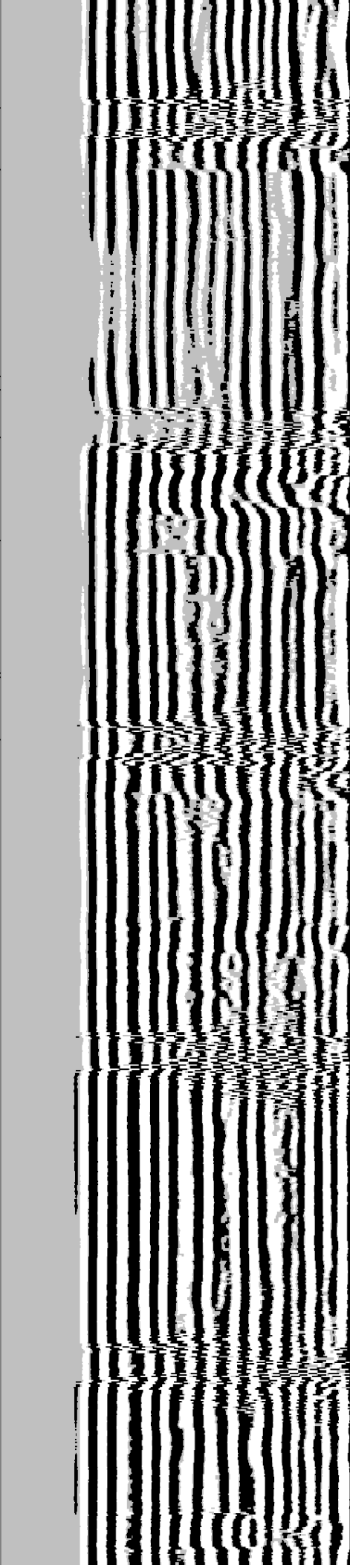
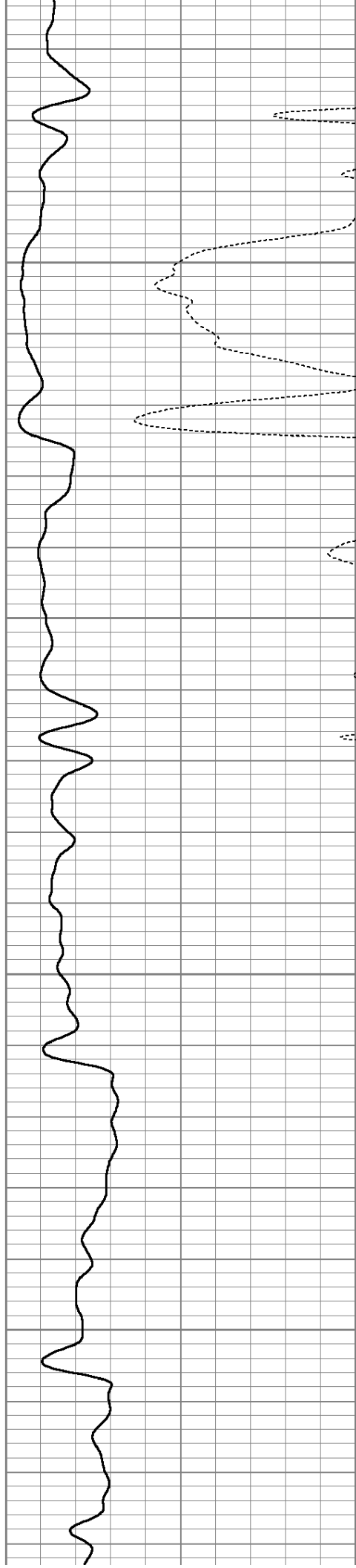


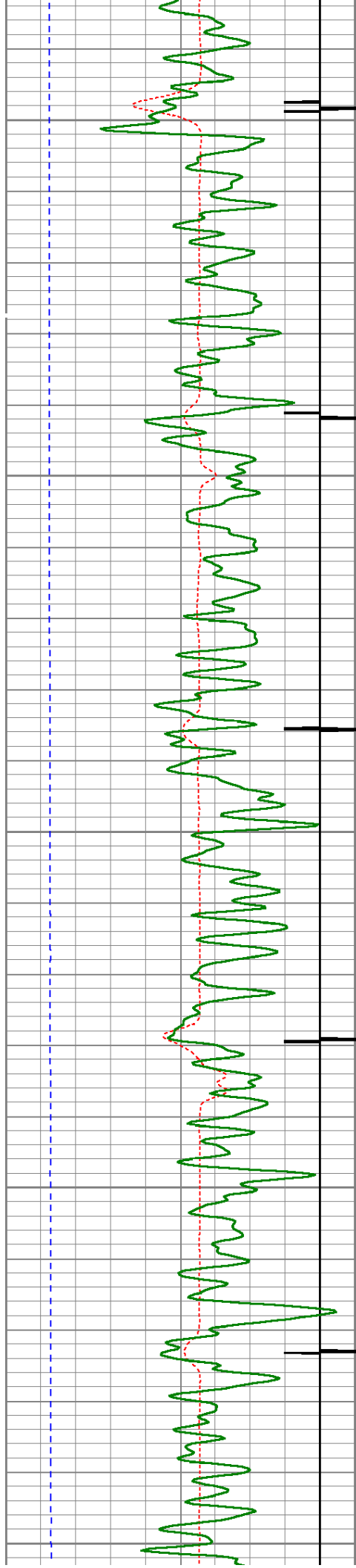
3500

3550

3600

3650





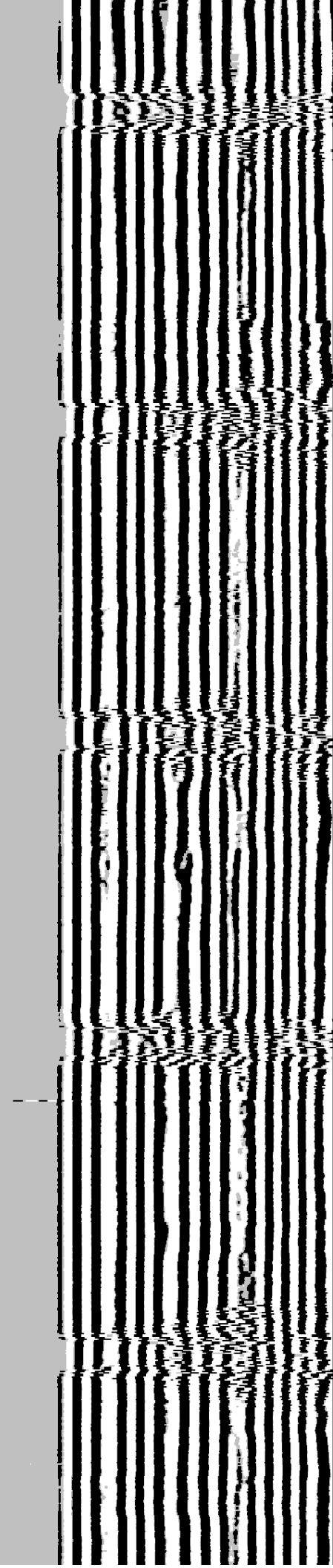
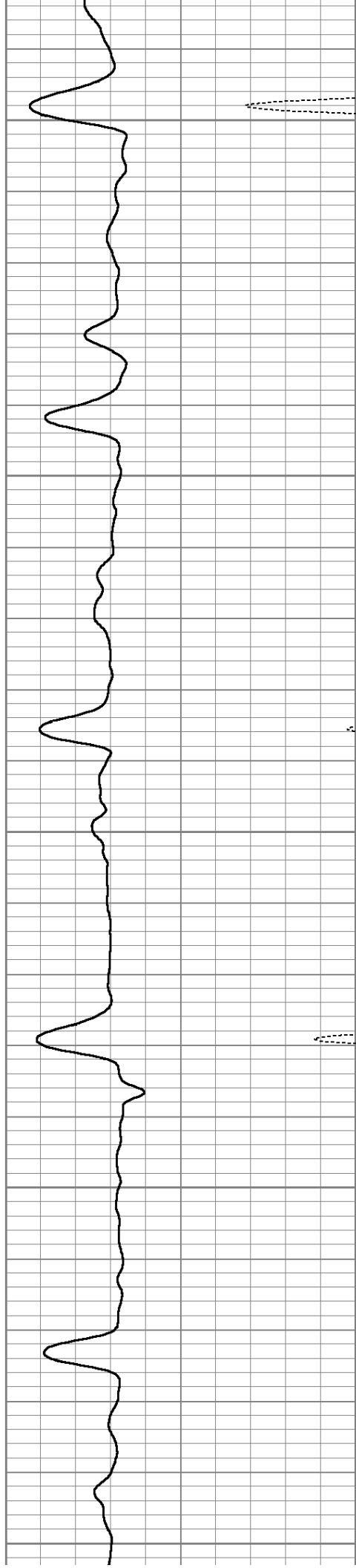
3700

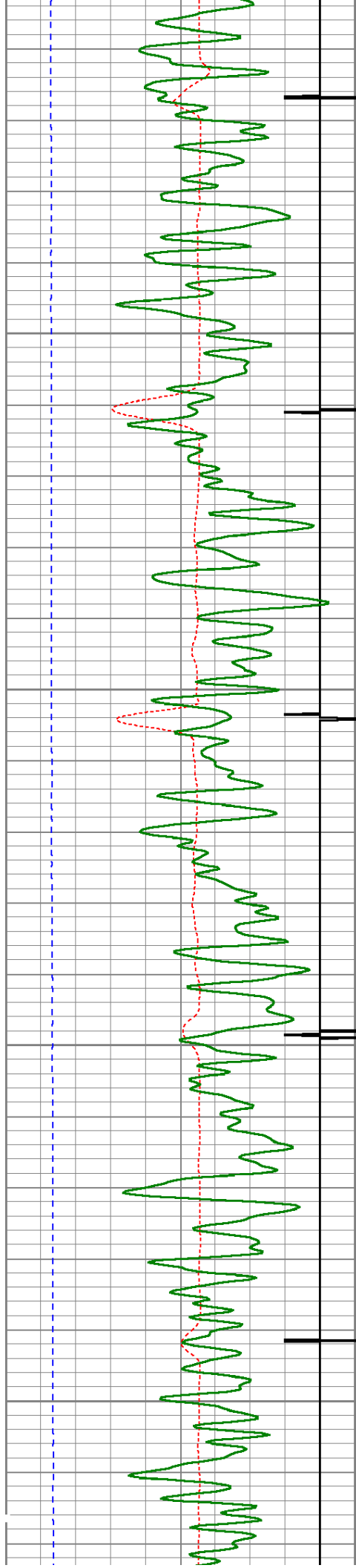
3750

3800

3850

3900



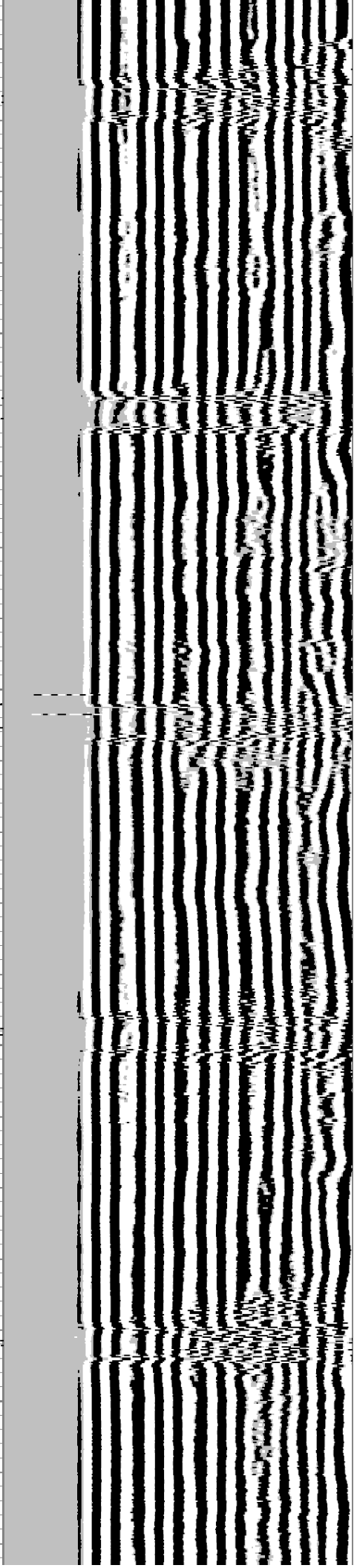
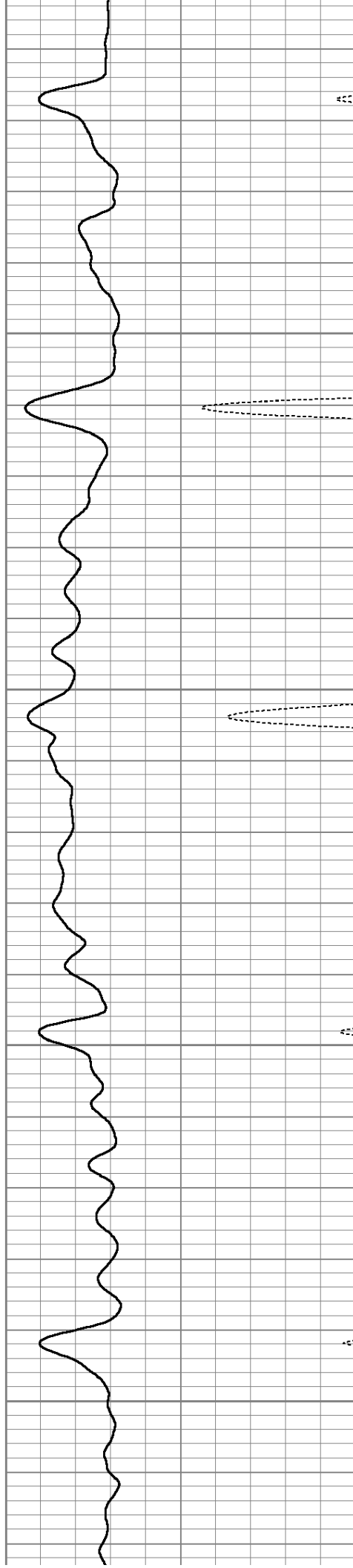


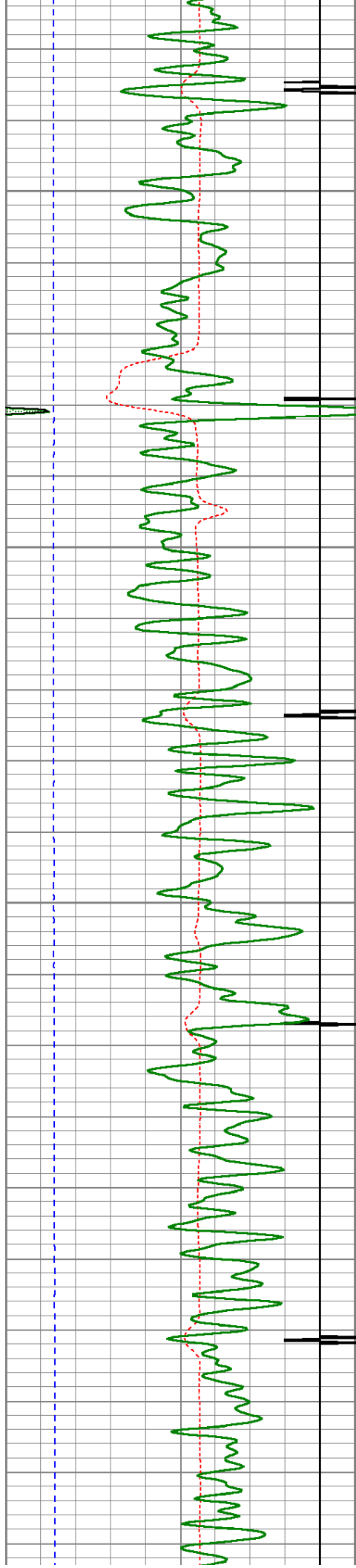
3950

4000

4050

4100



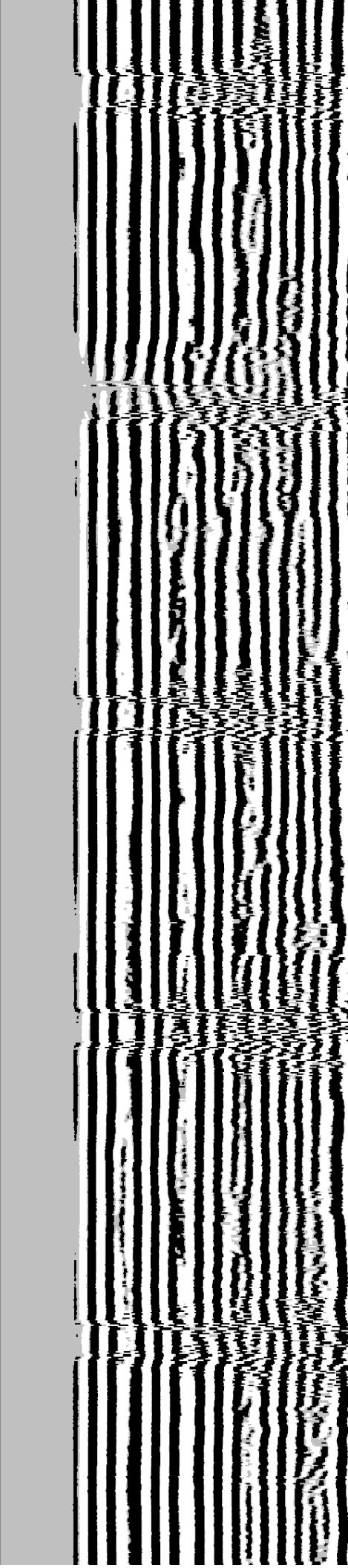
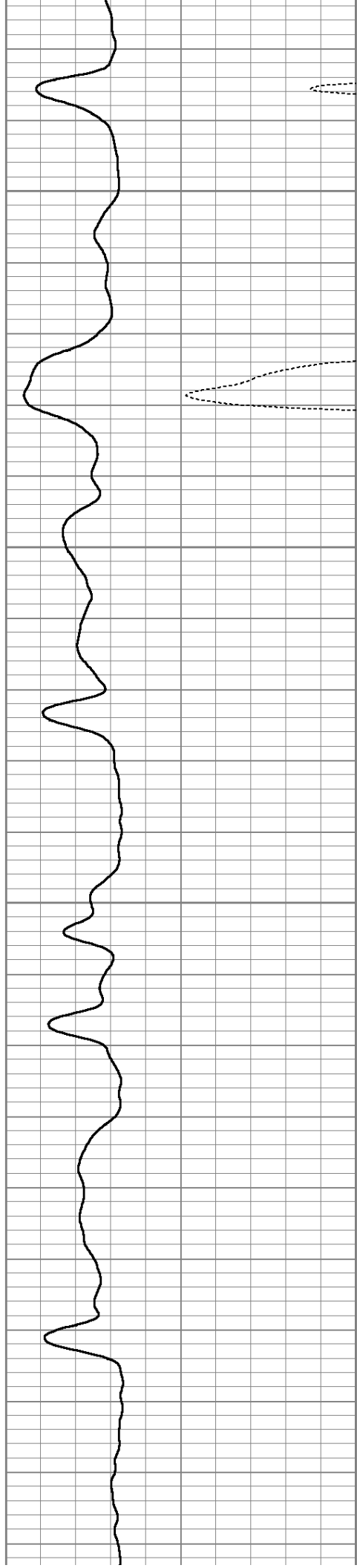


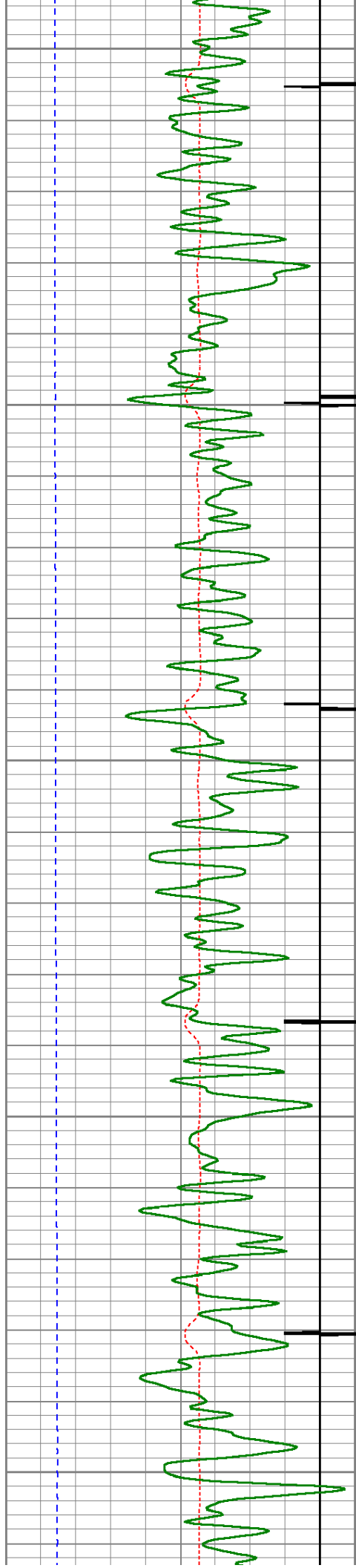
4150

4200

4250

4300





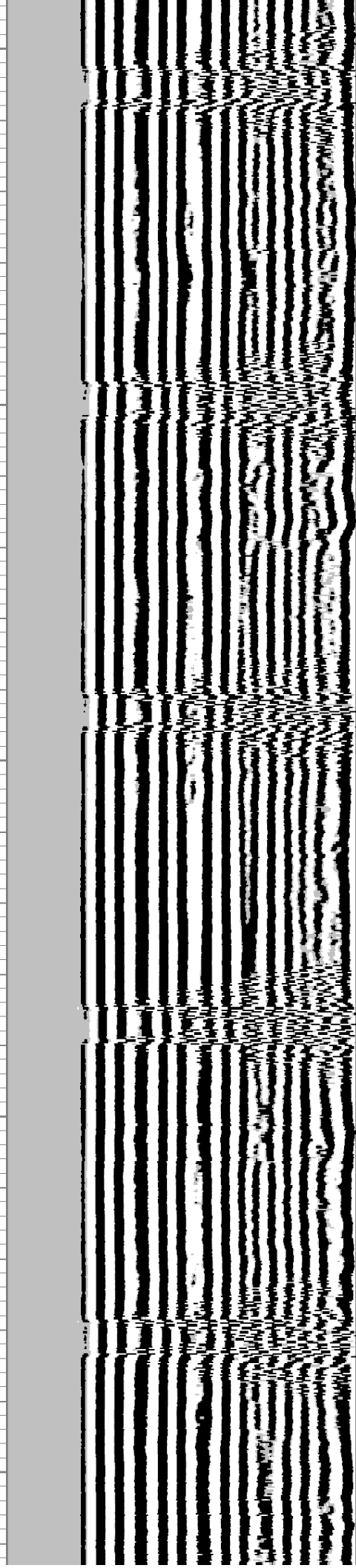
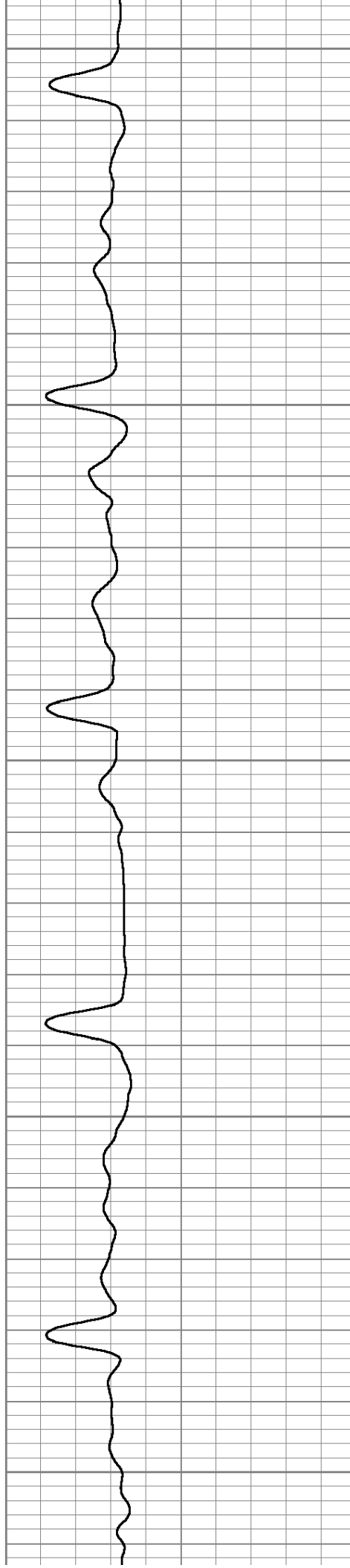
4350

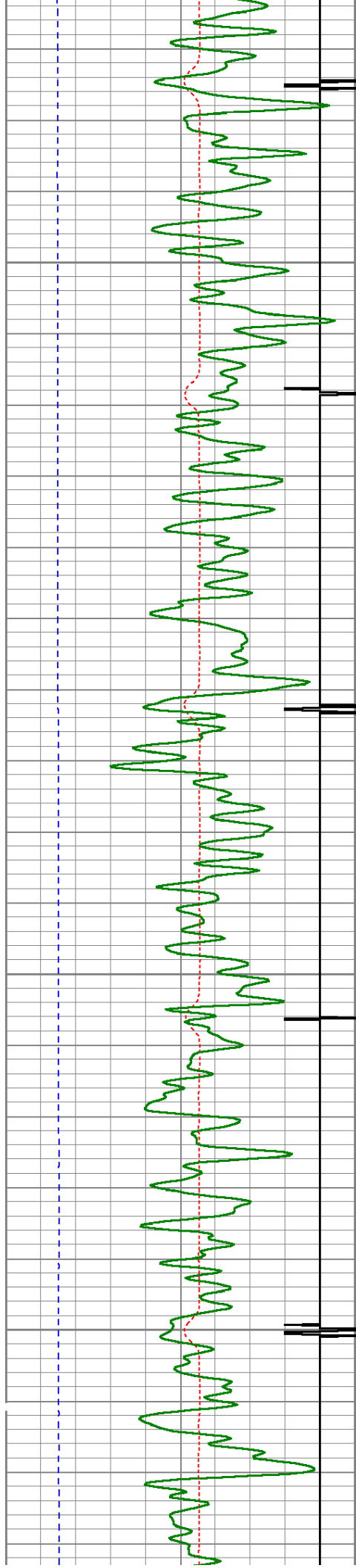
4400

4450

4500

4550



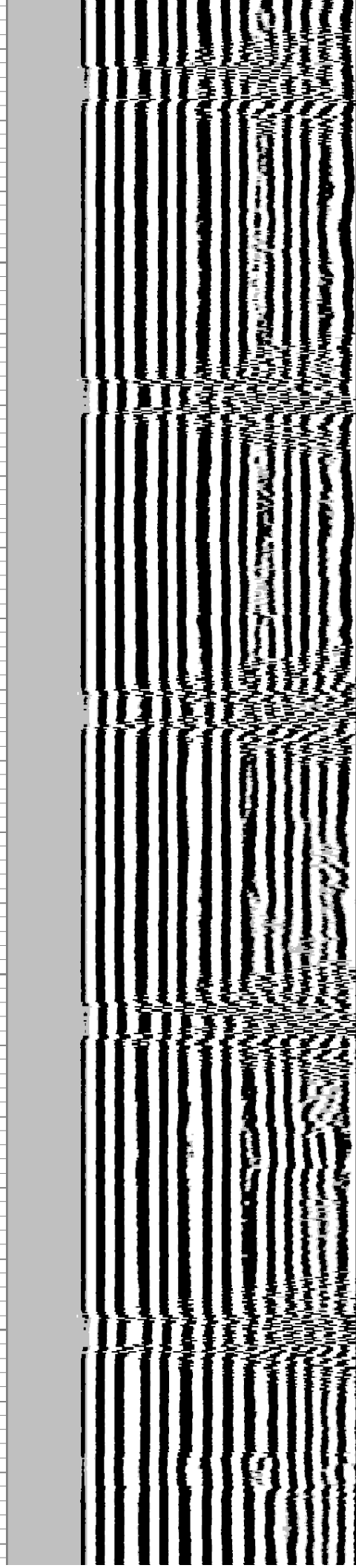
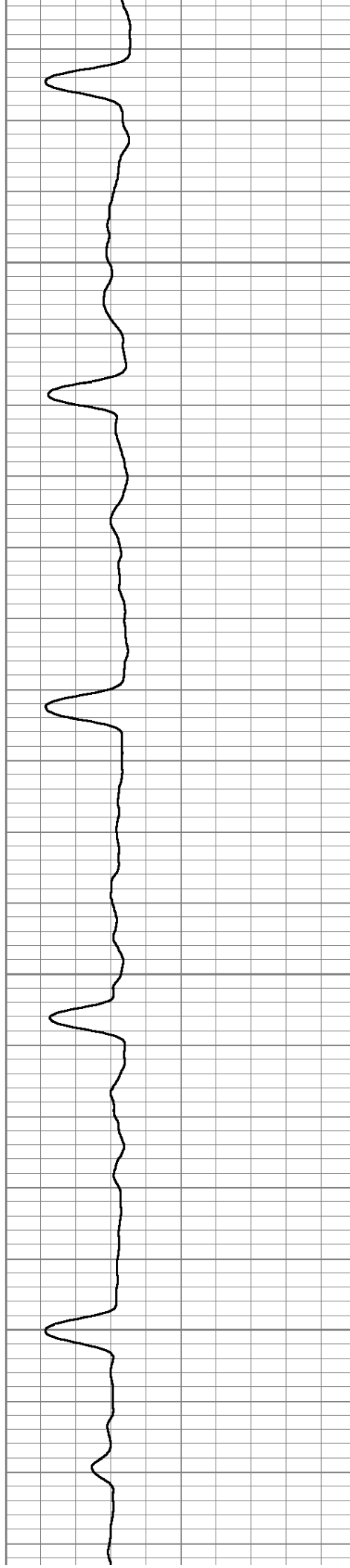


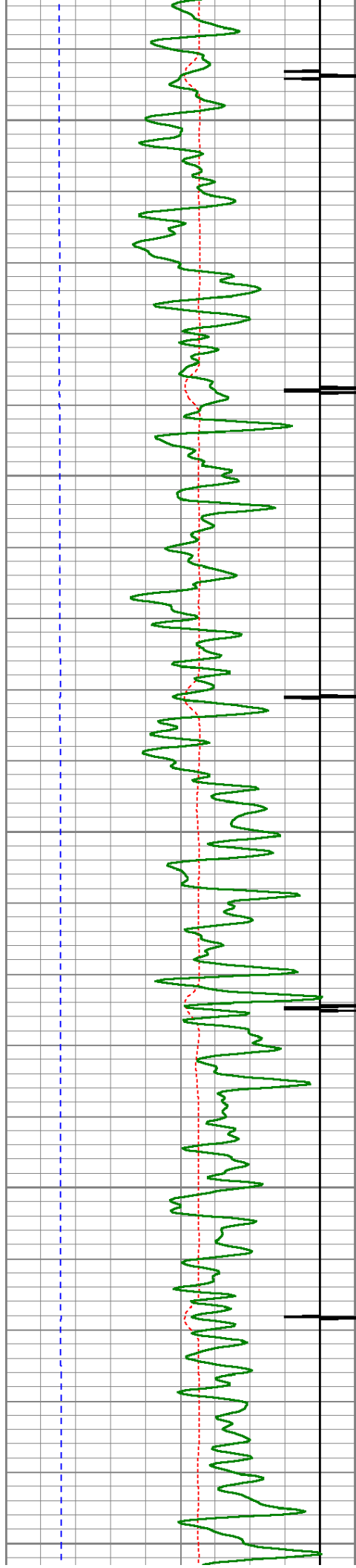
4600

4650

4700

4750





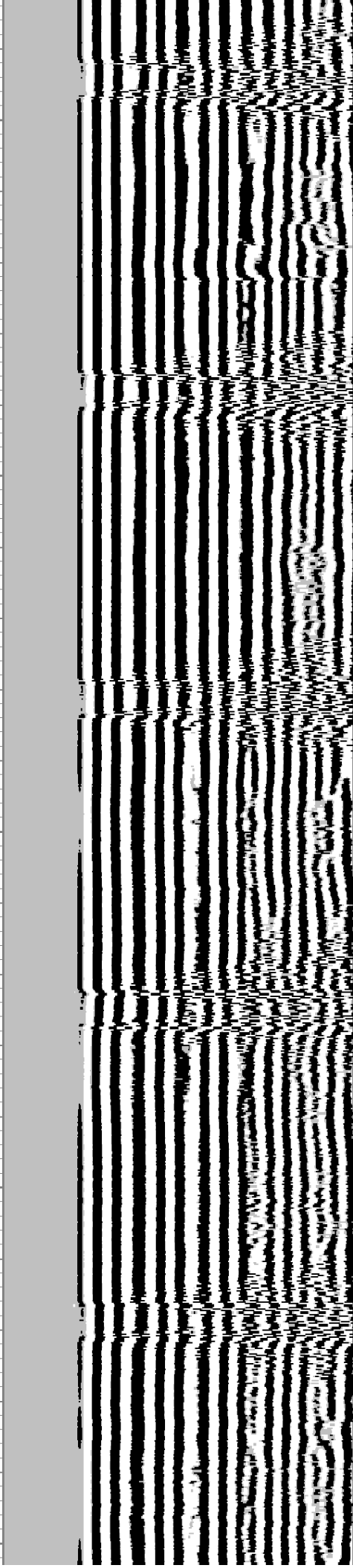
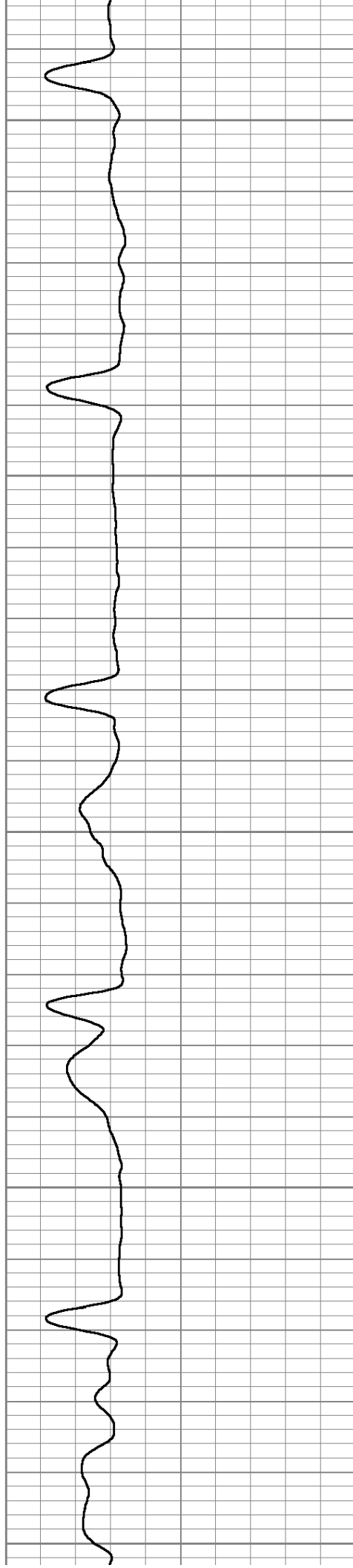
4800

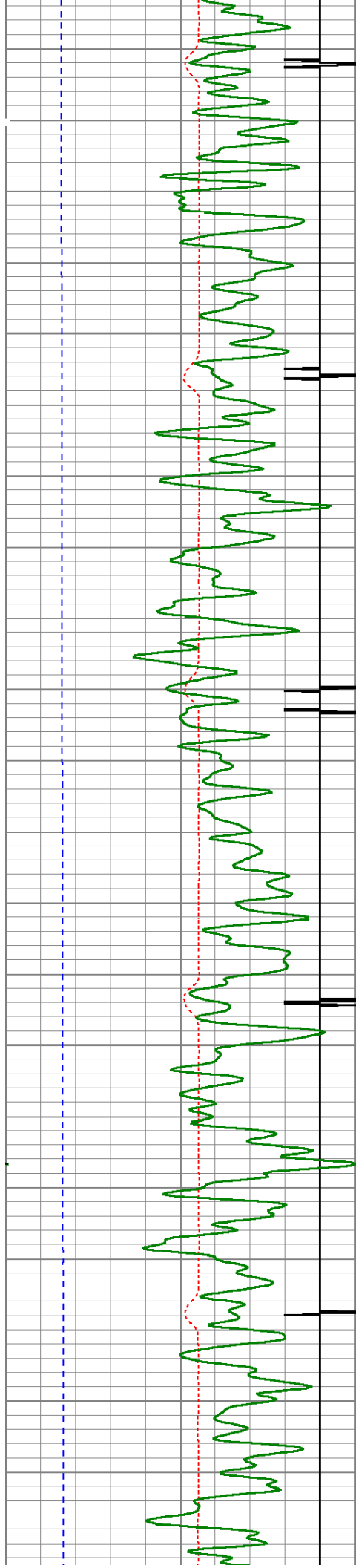
4850

4900

4950

5000



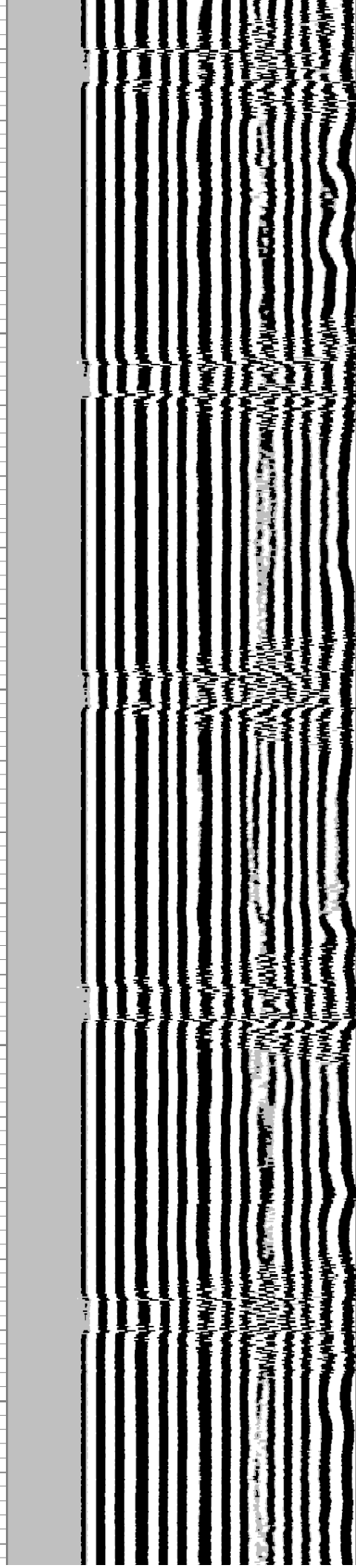
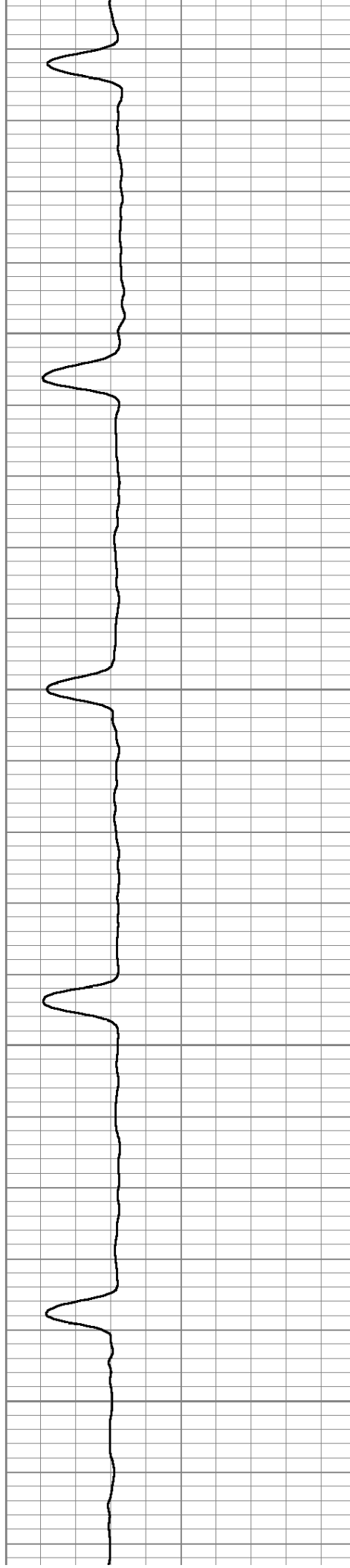


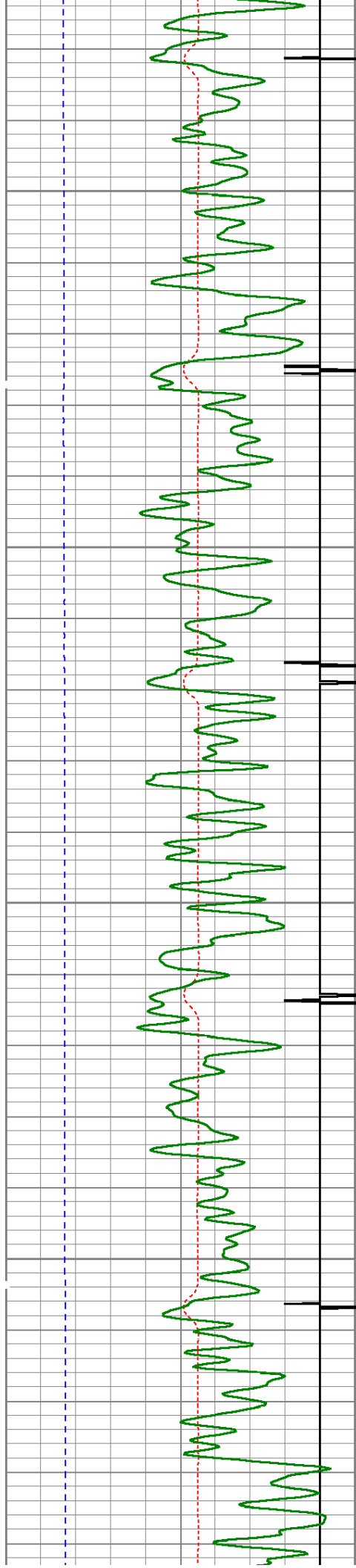
5050

5100

5150

5200



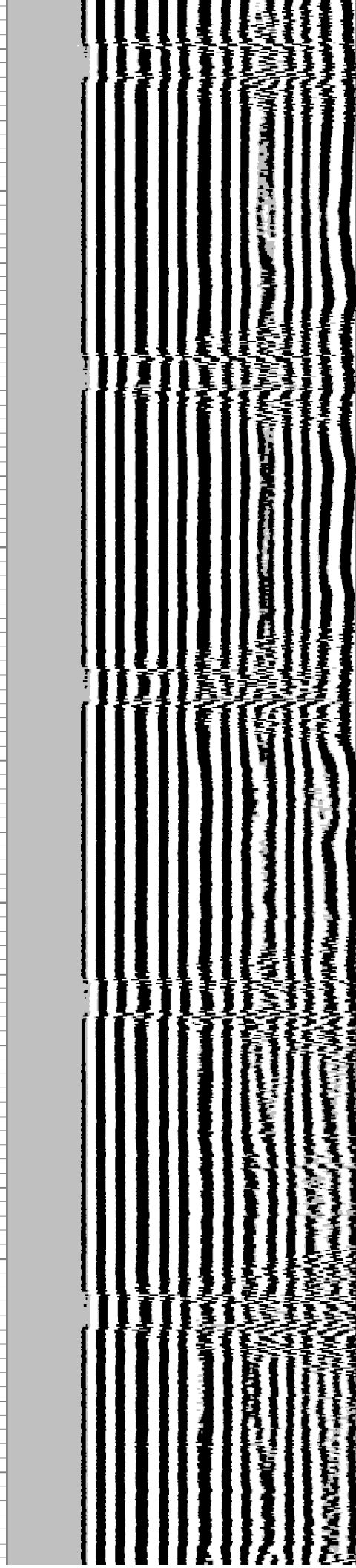
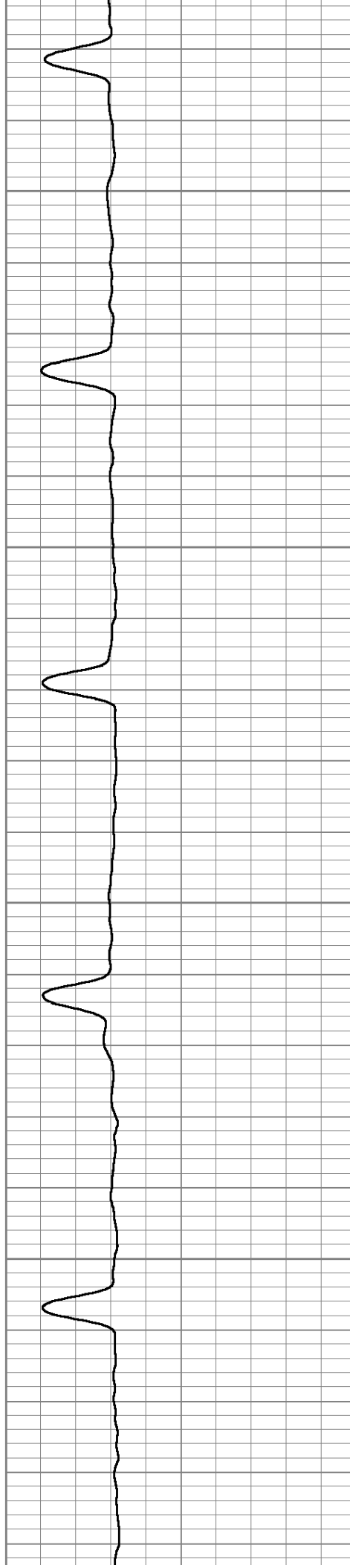


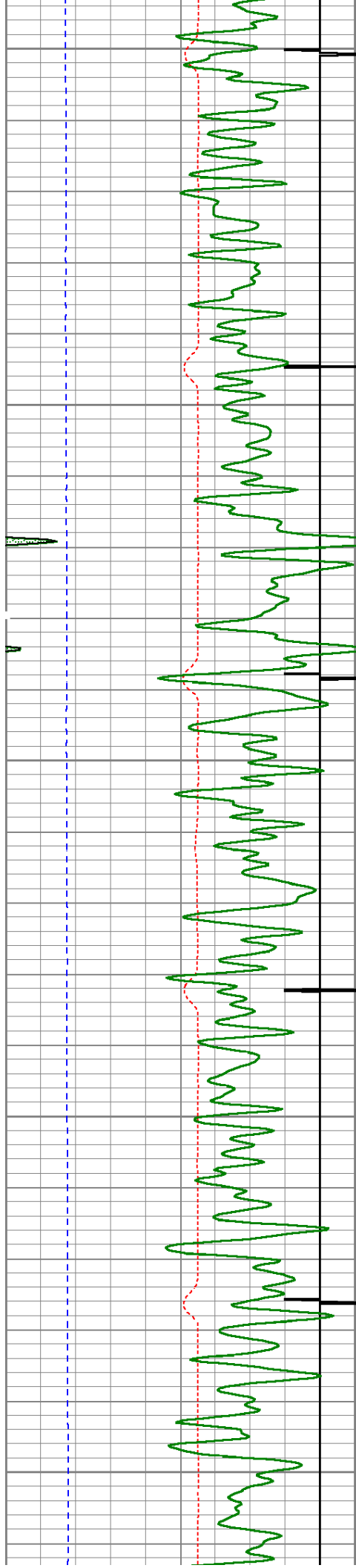
5250

5300

5350

5400





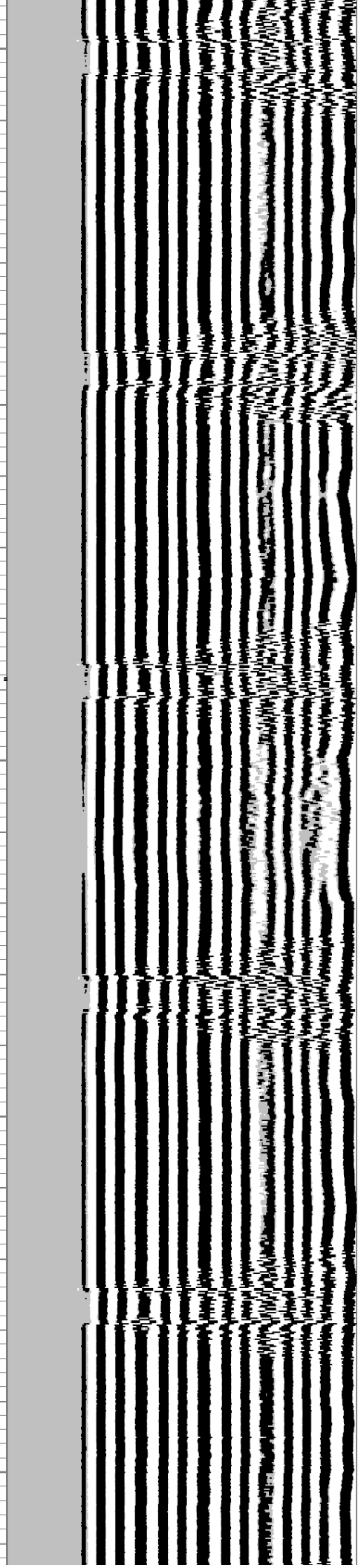
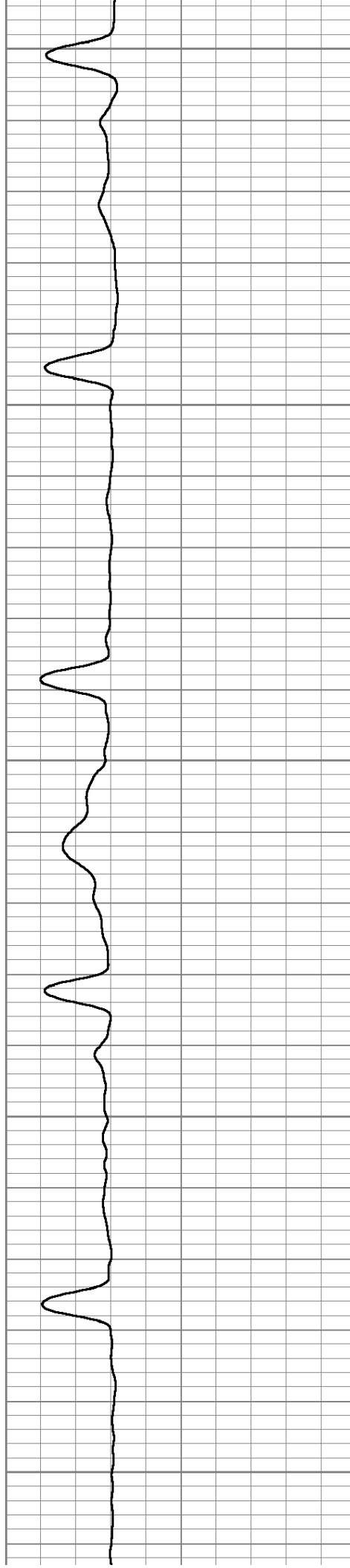
5450

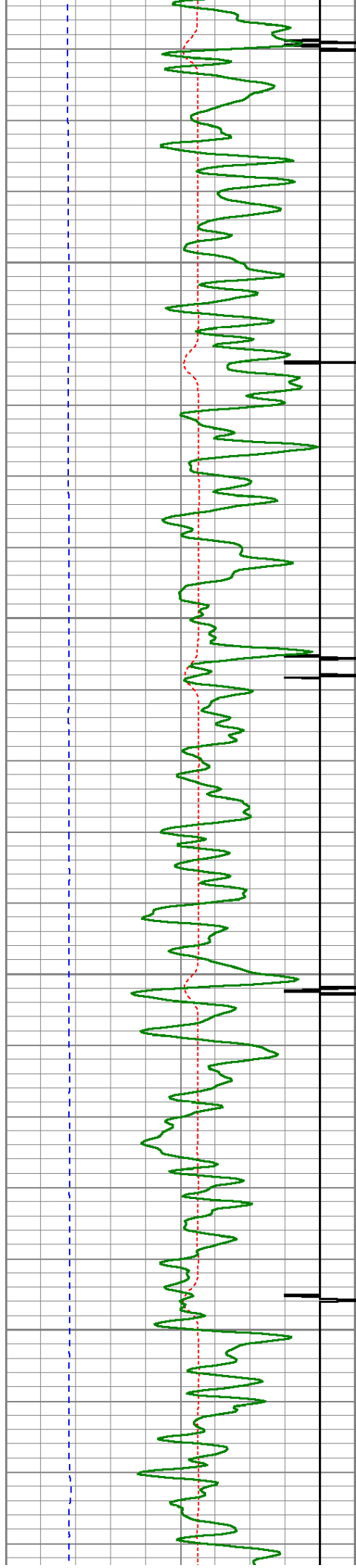
5500

5550

5600

5650



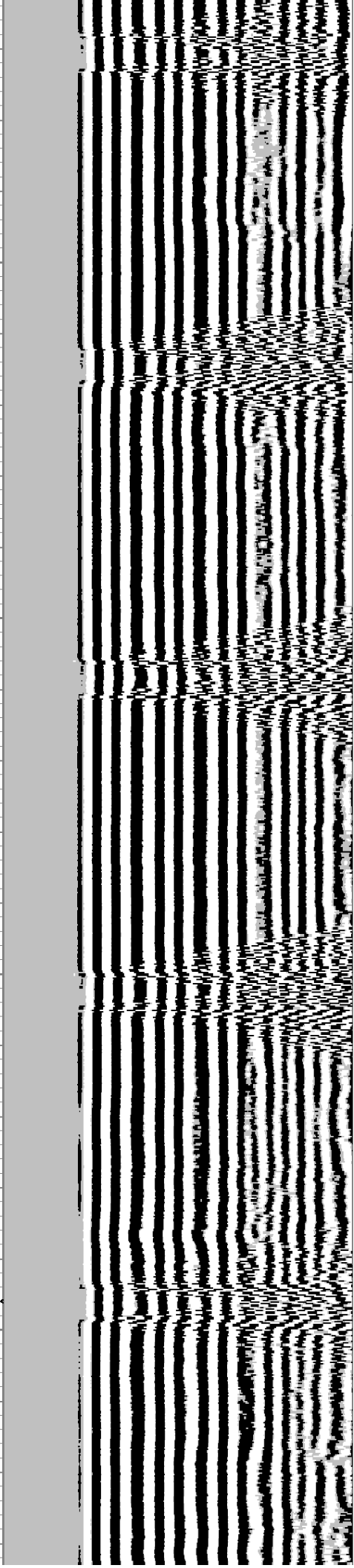
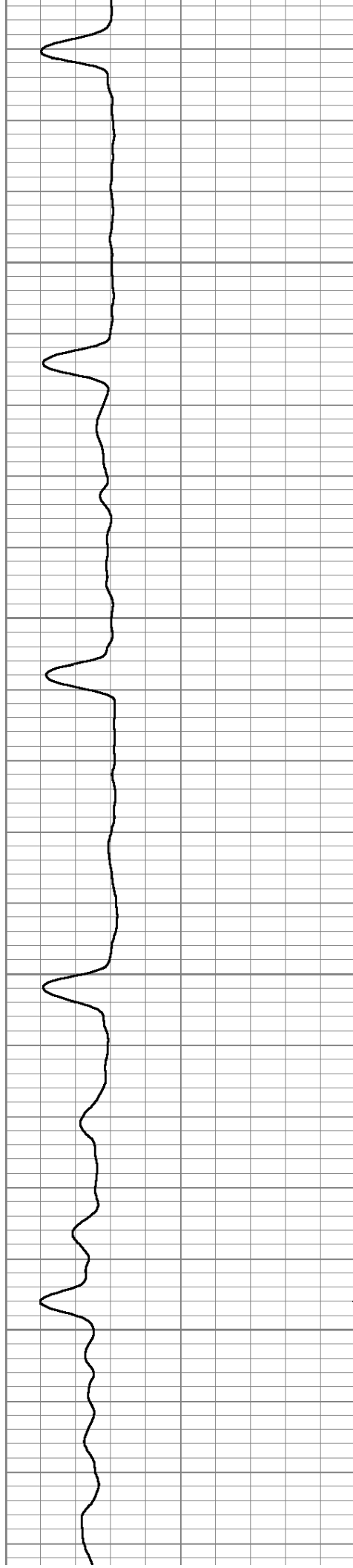


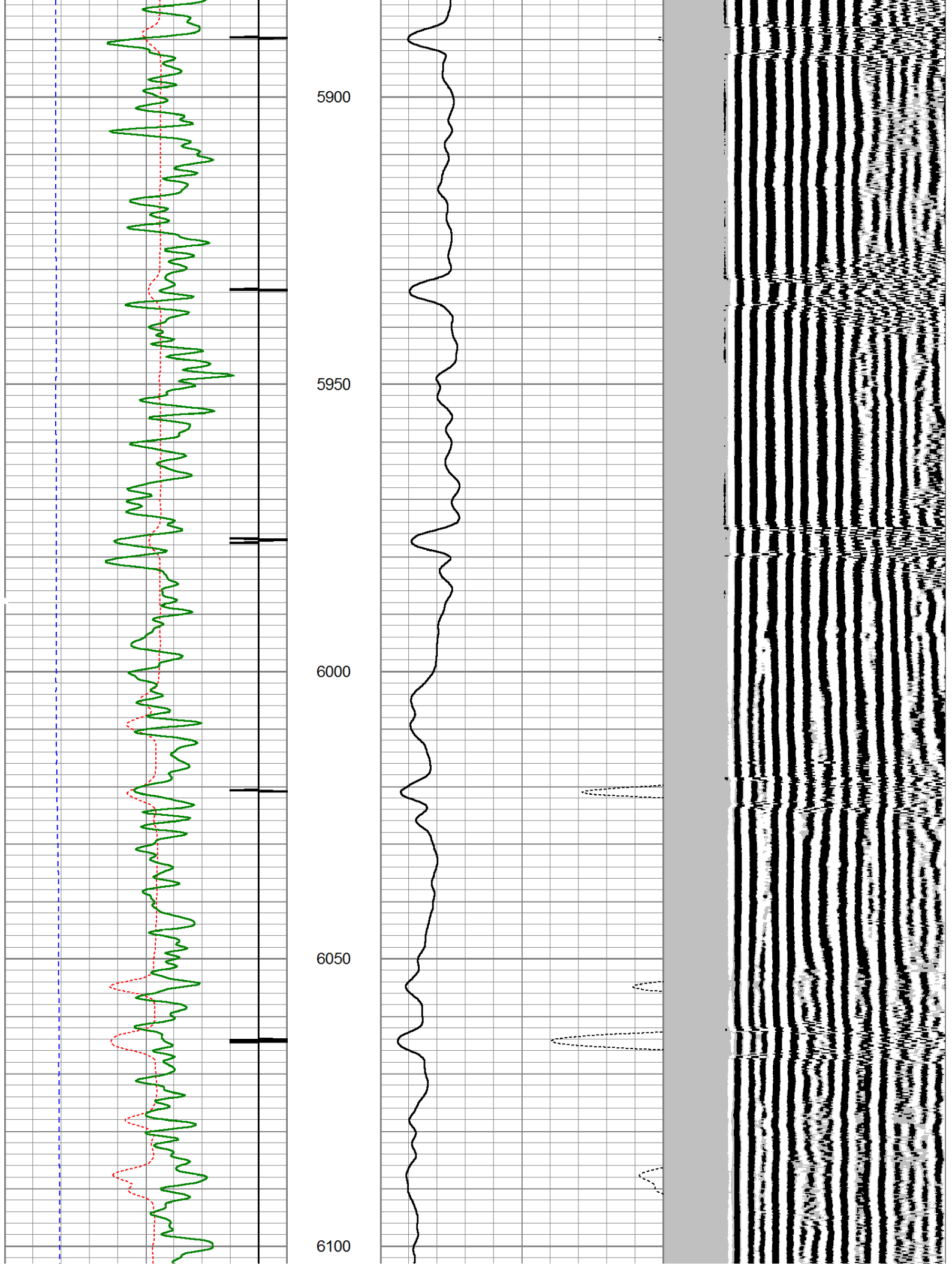
5700

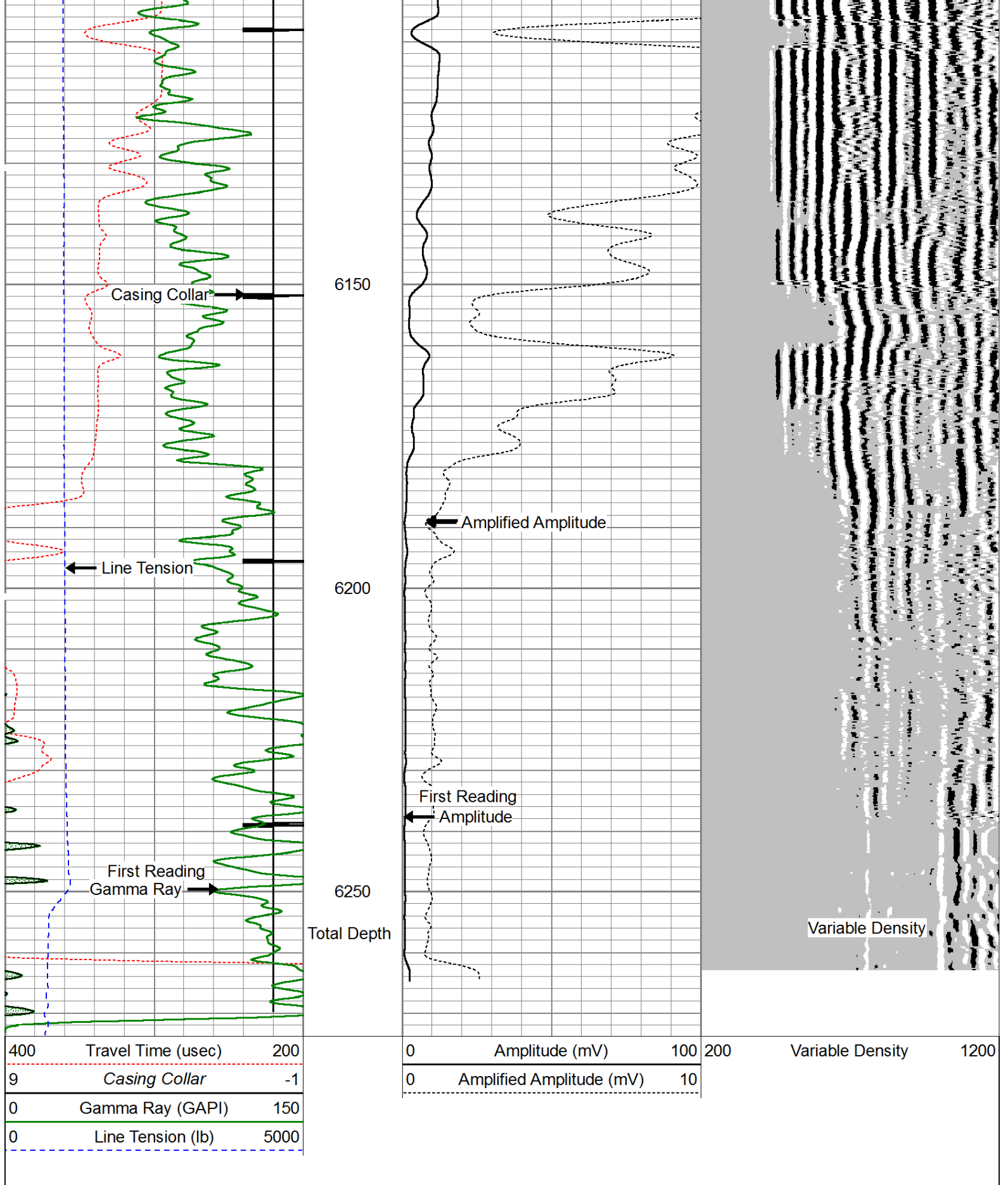
5750

5800

5850

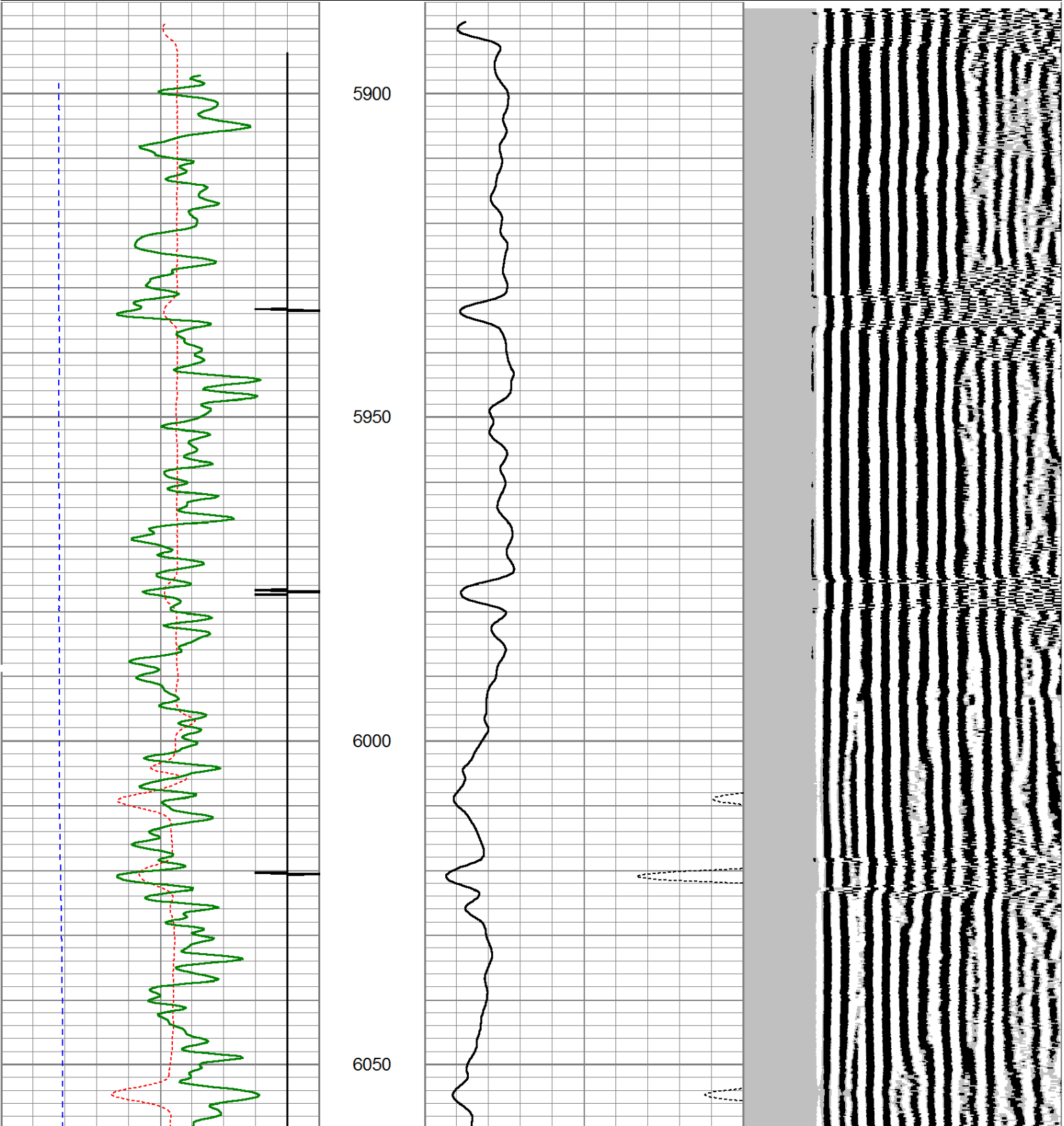


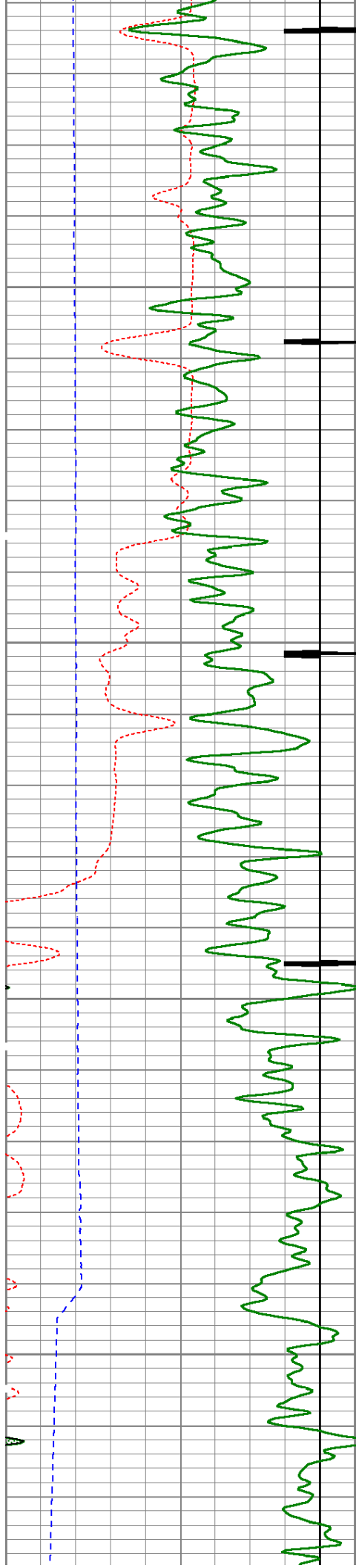




Database File: bonanza creek state north platte o24-k21-26 hnb_cbl.db
Dataset Pathname: pass2
Presentation Format: cblprobe
Dataset Creation: Fri Dec 27 10:32:13 2013 by Log 0
Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200	0	Amplitude (mV)	100	200	Variable Density	1200
9	Casing Collar	-1	0	Amplified Amplitude (mV)	10			
0	Gamma Ray (GAPI)	150						
0	Line Tension (lb)	5000						



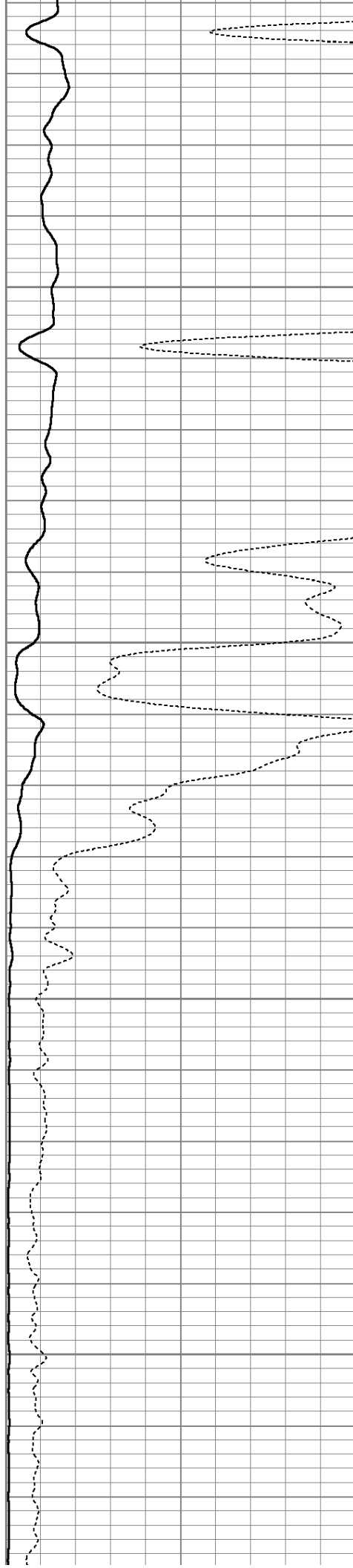


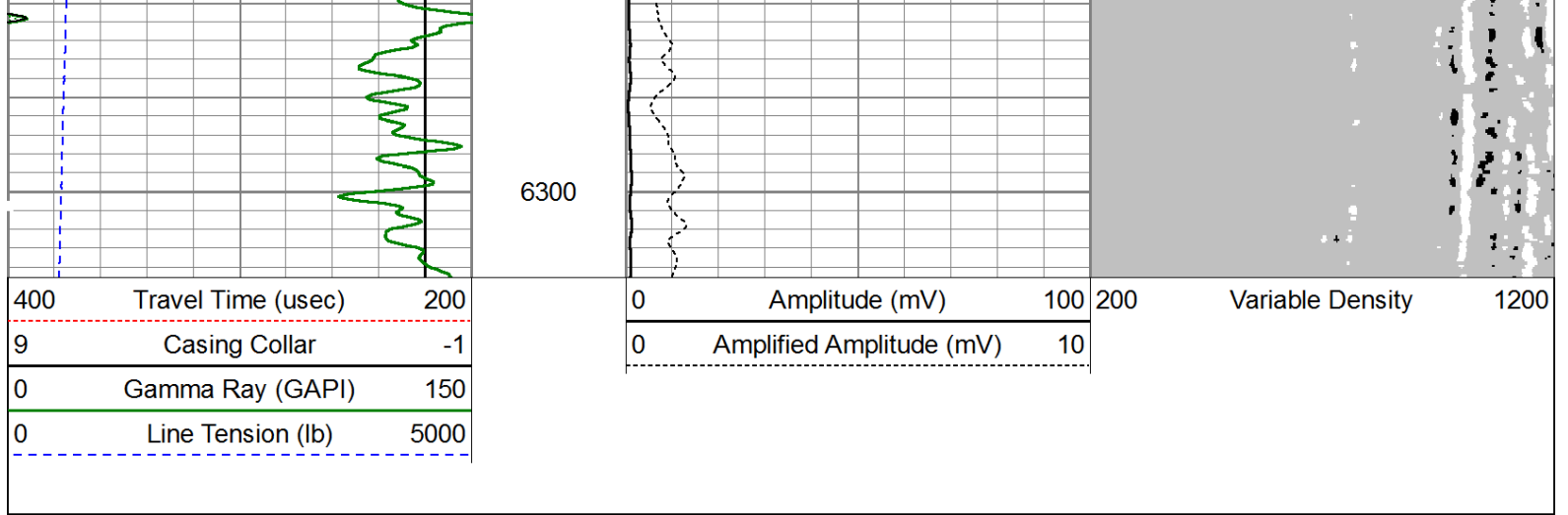
6100

6150

6200

6250





Calibration Report

Database File: bonanza creek state north platte o24-k21-26 hnb_cbl.db
 Dataset Pathname: pass3
 Dataset Creation: Fri Dec 27 10:42:12 2013 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:	101254		
Tool Model:	Probe		
Calibration Casing Diameter:	7.000	in	
Calibration Depth:	6227.117	ft	

Master Calibration, performed Fri Dec 27 07:11:22 2013:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.016	0.603	1.000	62.165	98.800	2.597
CAL	0.738	0.752				

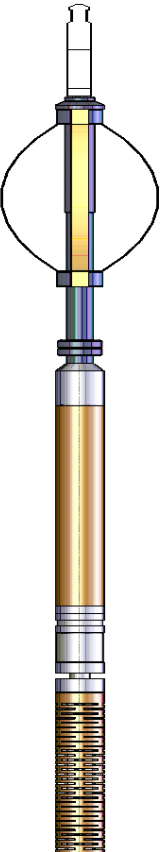
5'	-0.020	0.645	1.000	62.165	92.014	2.824
SUM						
S1	0.001	0.640	0.000	100.000	156.488	-0.107
S2	-0.010	0.600	0.000	100.000	163.938	1.641
S3	-0.012	0.569	0.000	100.000	172.115	2.128
S4	-0.016	0.560	0.000	100.000	173.806	2.724
S5	-0.017	0.614	0.000	100.000	158.572	2.693
S6	-0.018	0.682	0.000	100.000	142.820	2.528
S7	-0.017	0.712	0.000	100.000	137.109	2.372
S8	-0.017	0.639	0.000	100.000	152.460	2.578

Internal Reference Calibration, performed Mon Oct 10 09:42:03 2005:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.738	0.752	1.000	0.000

Air Zero Calibration, performed Fri Dec 27 06:35:43 2013:

	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)
			Titan Cable_head	1.00	1.44	10.00
			Probe275 2.75" Centralizer	2.88	2.75	20.00
WVF3FT WVFCAL	11.84 11.84		RBT-Probe (101254) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00

Tool Joint	Depth (ft)	Diagram	Tool Joint	Length (ft)	Weight (lb)	O.D. (in)
WVFS1	11.84					
WVFS2	11.84					
WVFS3	11.84					
WVFS4	11.84					
WVFS5	11.84					
WVFS6	11.84					
WVFS7	11.84					
WVFS8	11.84					
WVF5FT	10.84					
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL	3.88					
TEMP	3.00					
GR	2.54		GR-Probe275 (110108-Dig) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
Dataset: bonanza creek state north platte o24-k21-26 hnb_cbl.db: field/well/run1/pass3 Total Length: 20.28 ft Total Weight: 197.00 lb O.D.: 2.75 in						