



CEMENT BOND  
VARIABLE DENSITY LOG  
W/ GAMMA RAY/ CCL

Company		BONANZA CREEK ENERGY	
Well		Antelope T44-P41-18HC	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API # :	
SEC		TWP	
RGE		Elevation	
Permanent Datum		Kelly Bushing	
Log Measured From		Kelly Bushing	
Drilling Measured From		Ground Level 17' APD	
Date		March 24th, 2014	
Run Number		ONE	
Depth Driller		N/A	
Depth Logger		6732'	
Bottom Logged Interval		6710'	
Top Log Interval		Surface	
Open Hole Size		8.75"	
Type Fluid		WATER	
Density / Viscosity		8.33	
Max. Recorded Temp.		N/A	
Estimated Cement Top		N/A	
Time Well Ready		1000	
Time Logger on Bottom		1030	
Equipment Number		12029	
Location		Brighton, CO	
Recorded By		Robert Grissom	
Witnessed By		Tim Guana	
Borehole Record		Tubing Record	
Run Number		Bit	
ONE		13.5"	
TWO		8.75"	
THREE		6.025"	
Casing Record		Size	
Surface String		9.625"	
Prot. String		7"	
Production String		4.5"	
Liner		11.6"	

<<< 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

Main Pass and Repeat Pass logged with ( 0 ) PSI

Thank You For Using Allied Wireline Services!!

303.659.4609



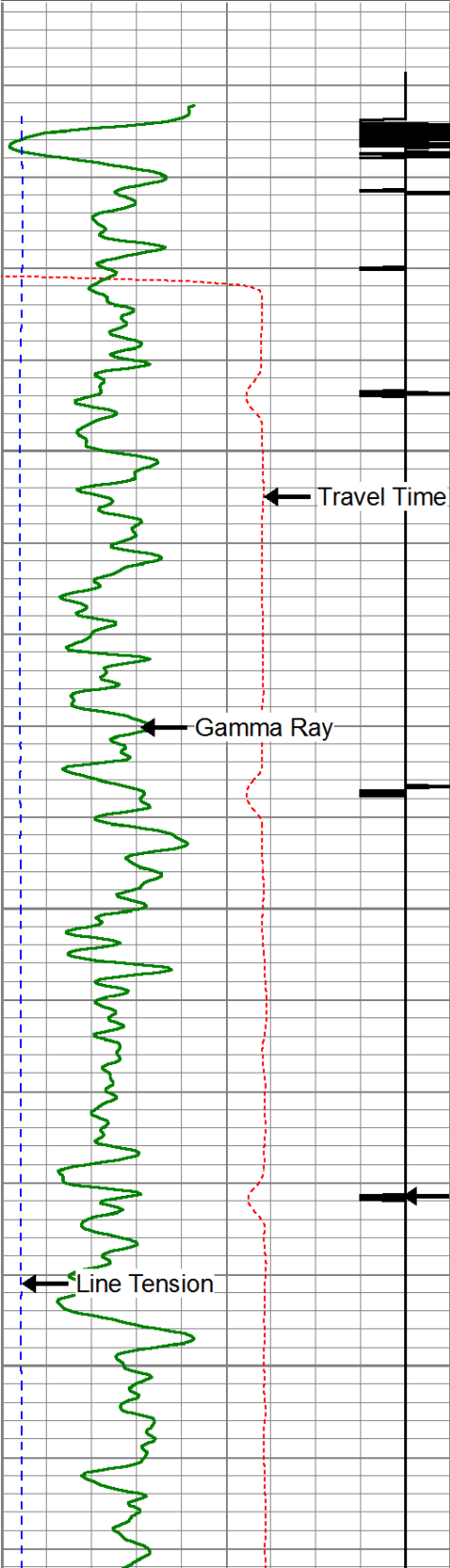
Main Pass (0 PSI)

Database File: bonanza creek- antelope t44-941-18hc\_cbl.db  
Dataset Pathname: pass3  
Presentation Format: cblprobe  
Dataset Creation: Mon Mar 24 10:24:57 2014 by Log SCH 120126  
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

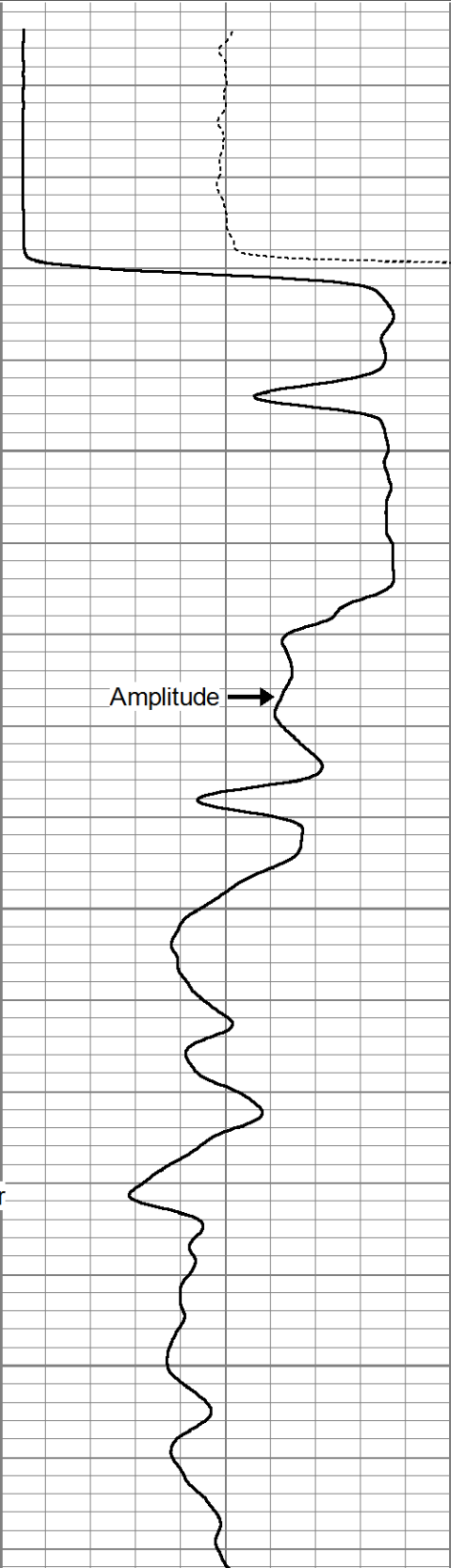
200 Variable Density 1200



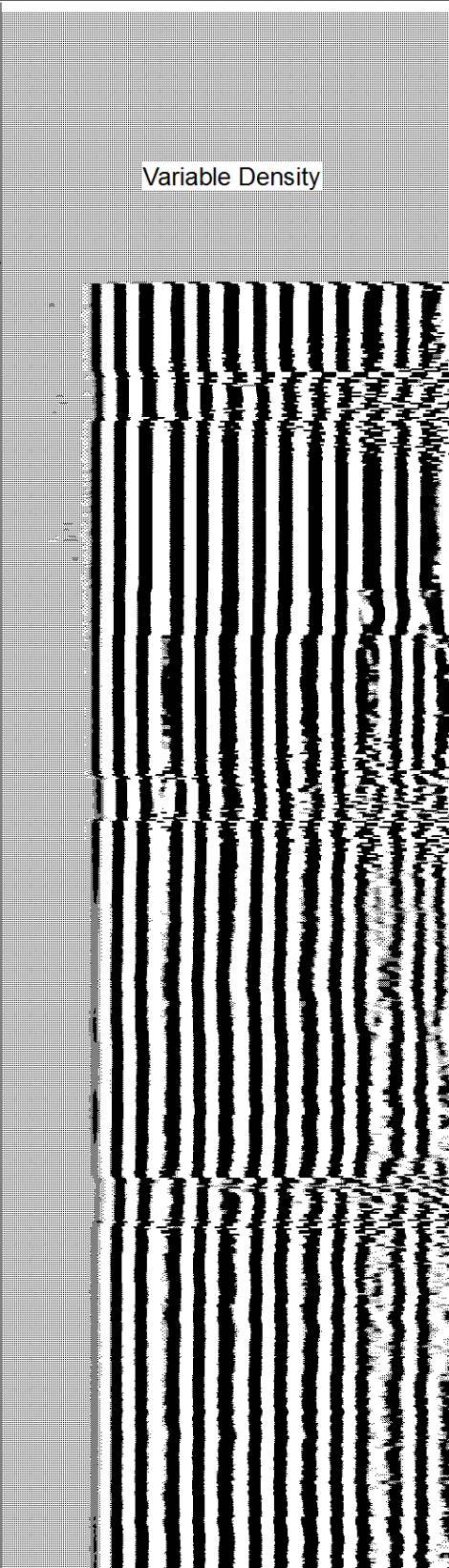
50

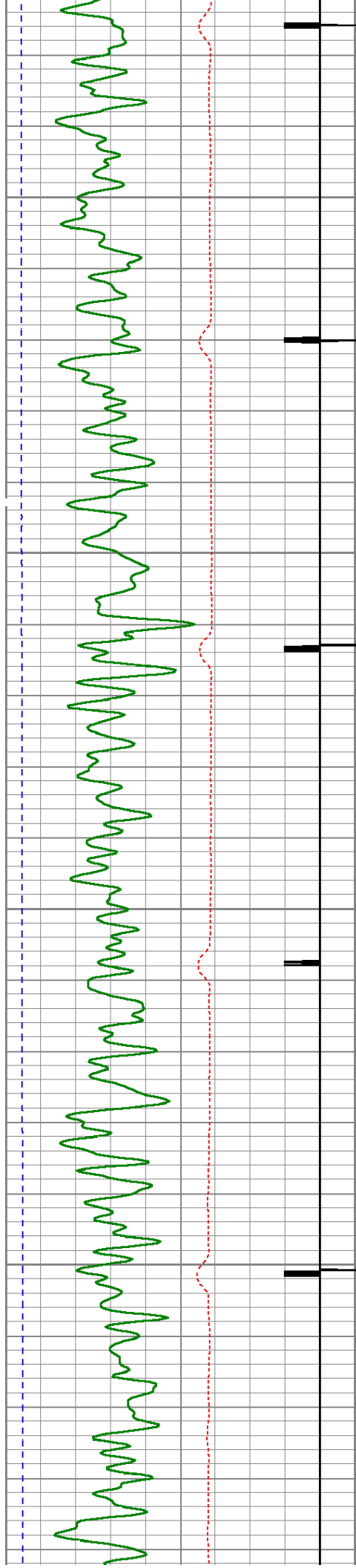
100

150



Variable Density



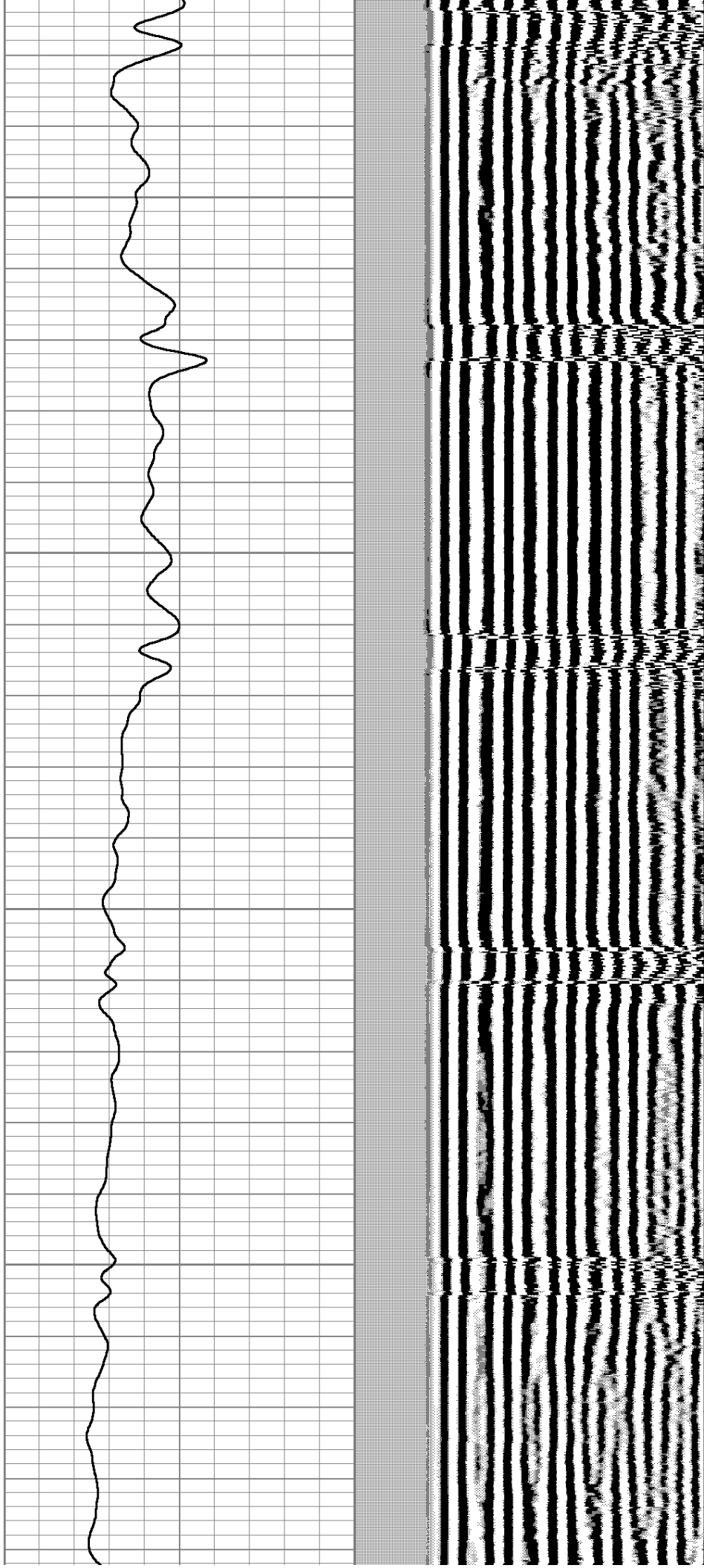


200

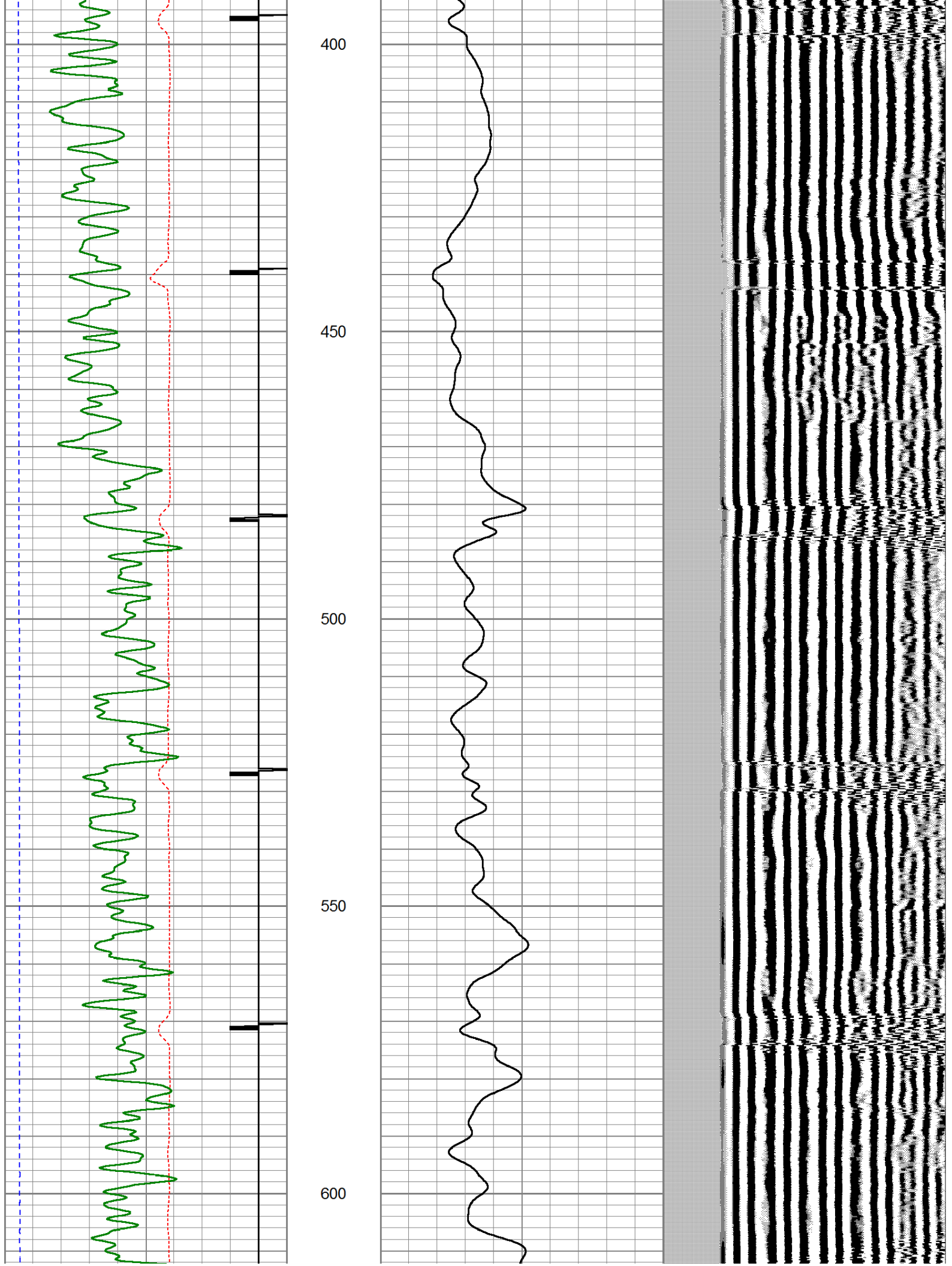
250

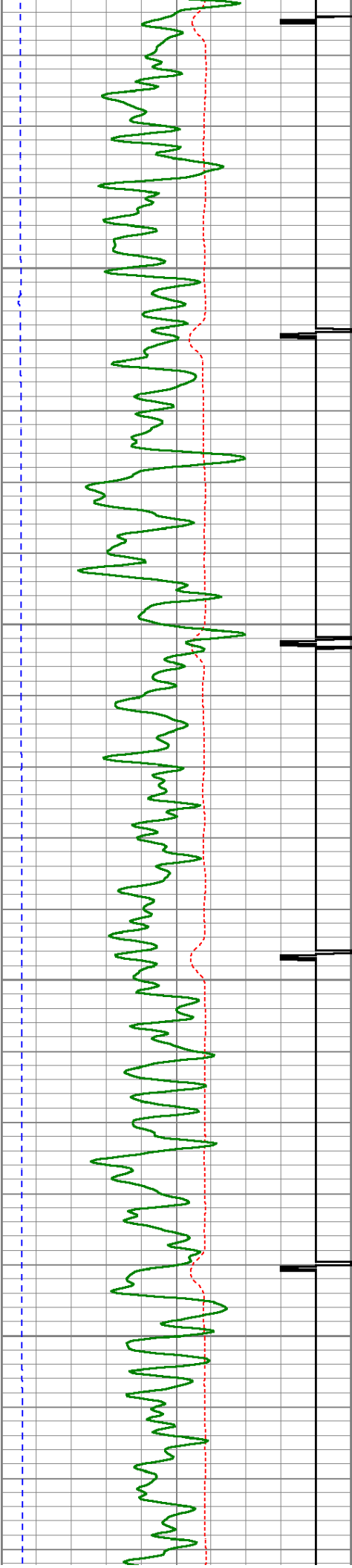
300

350







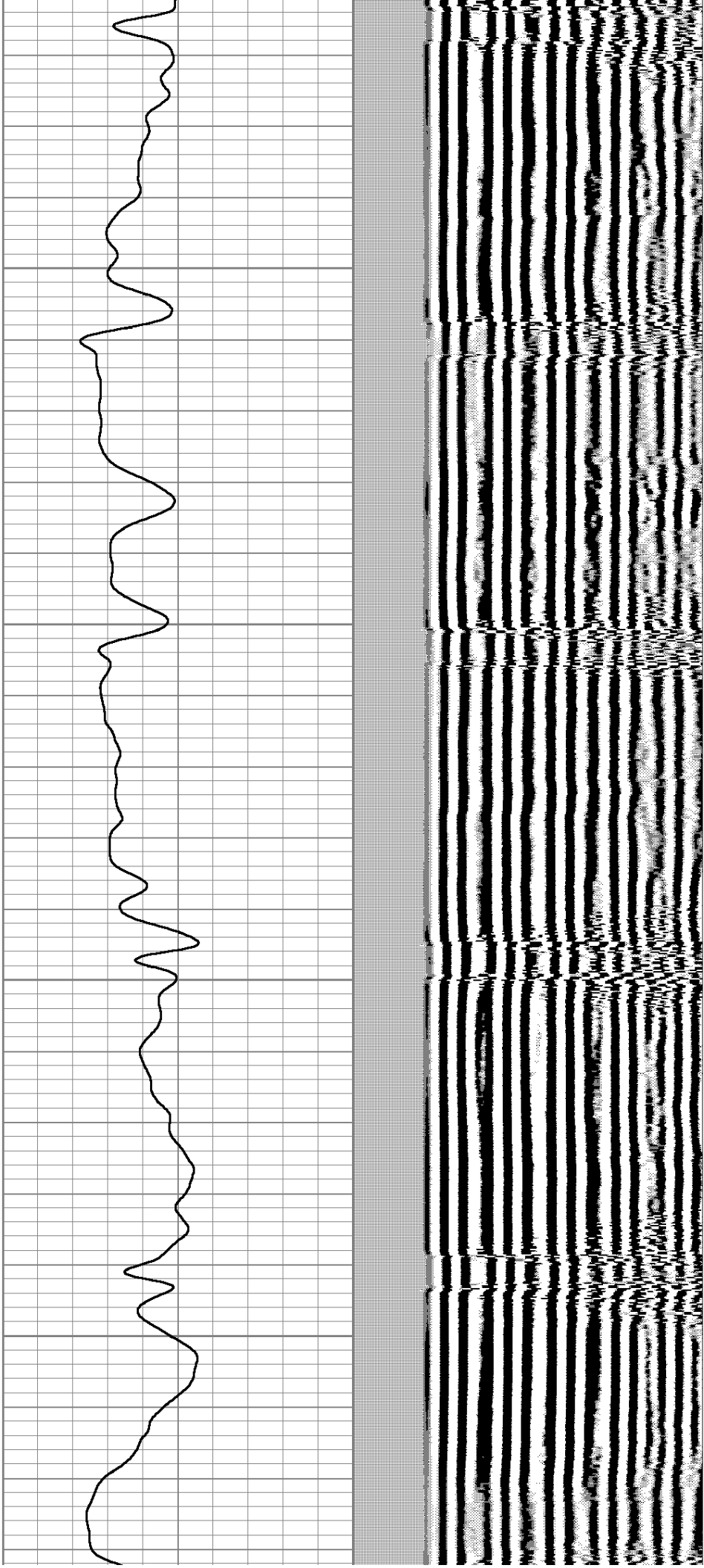


650

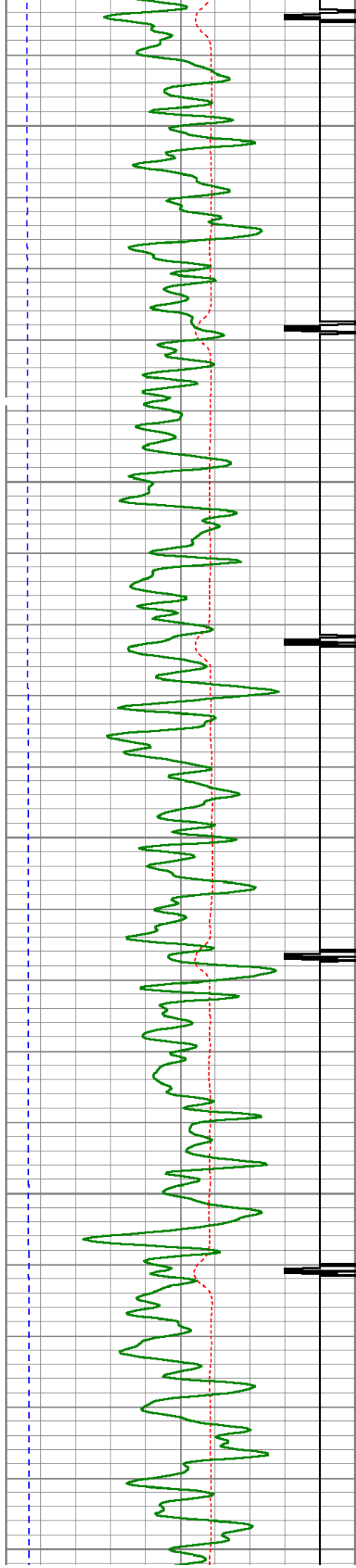
700

750

800







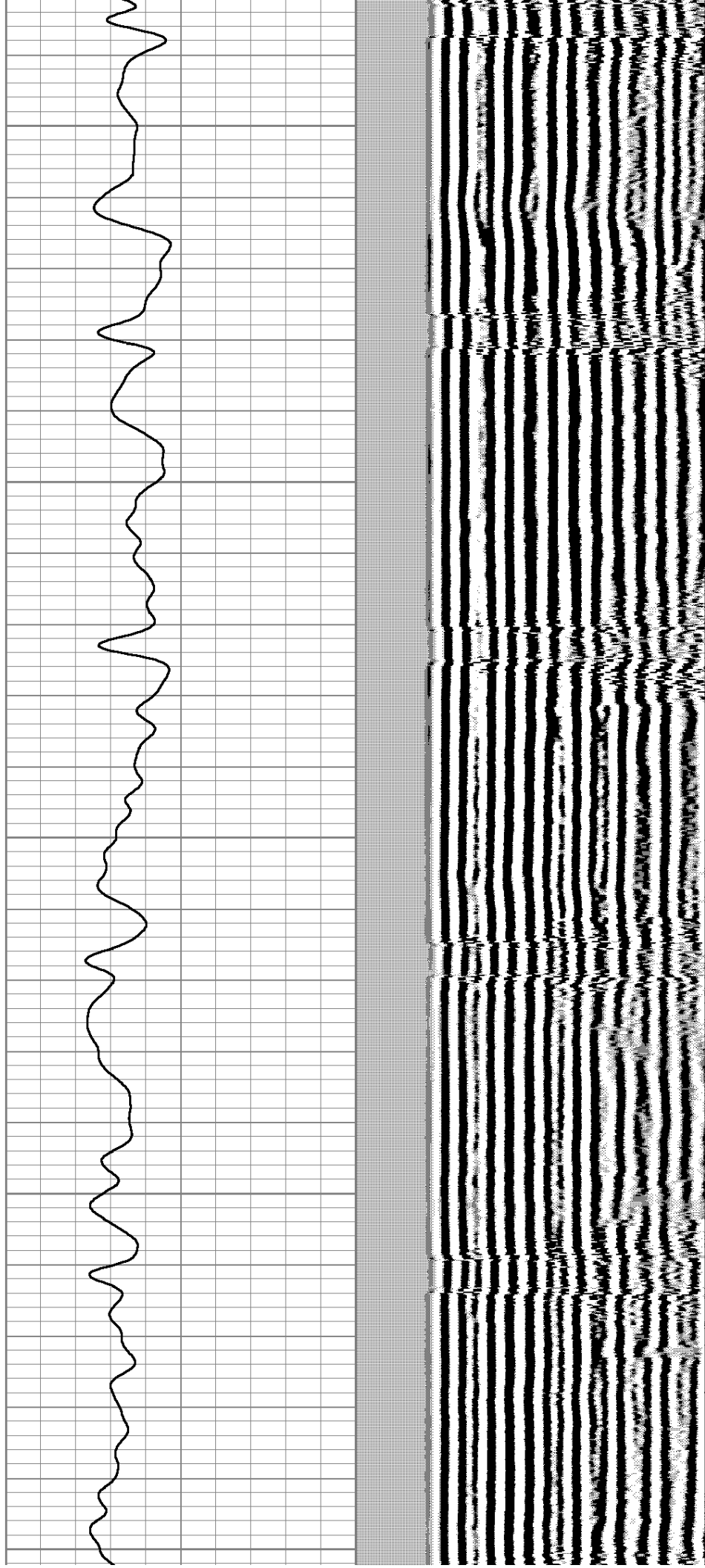
850

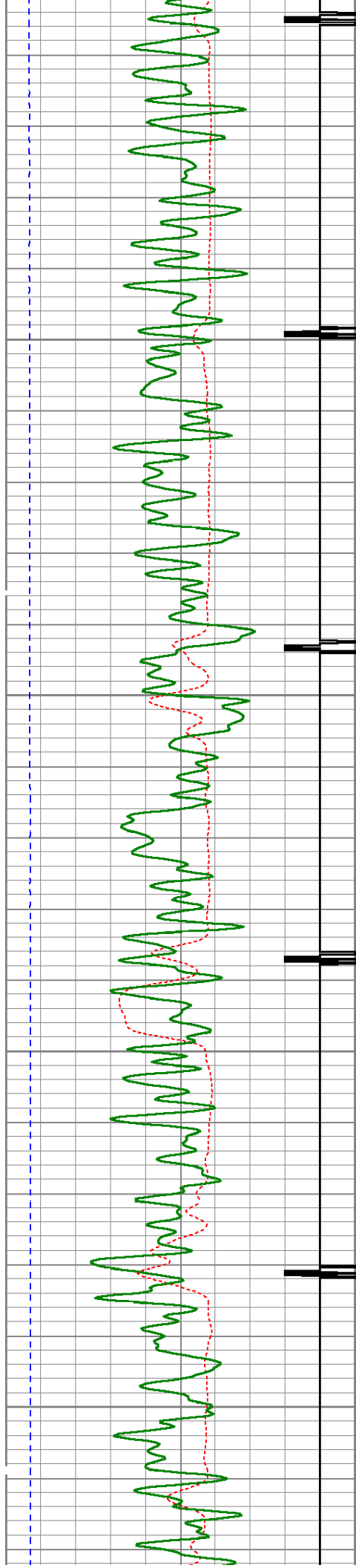
900

950

1000

1050



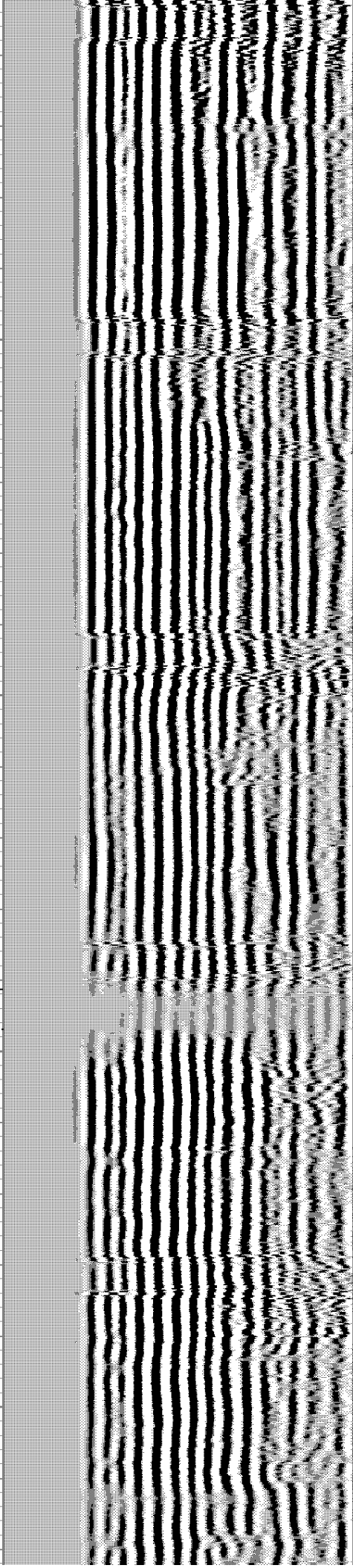
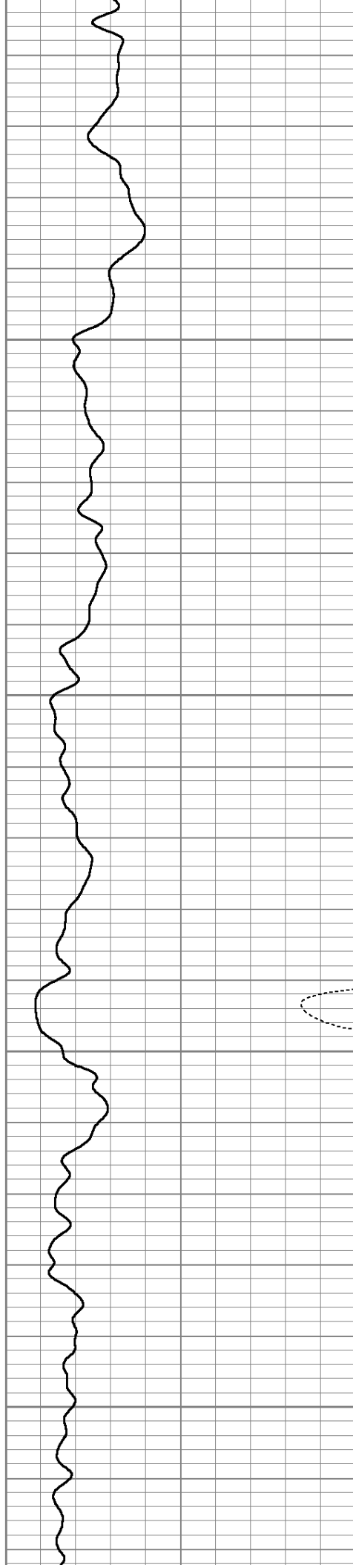


1100

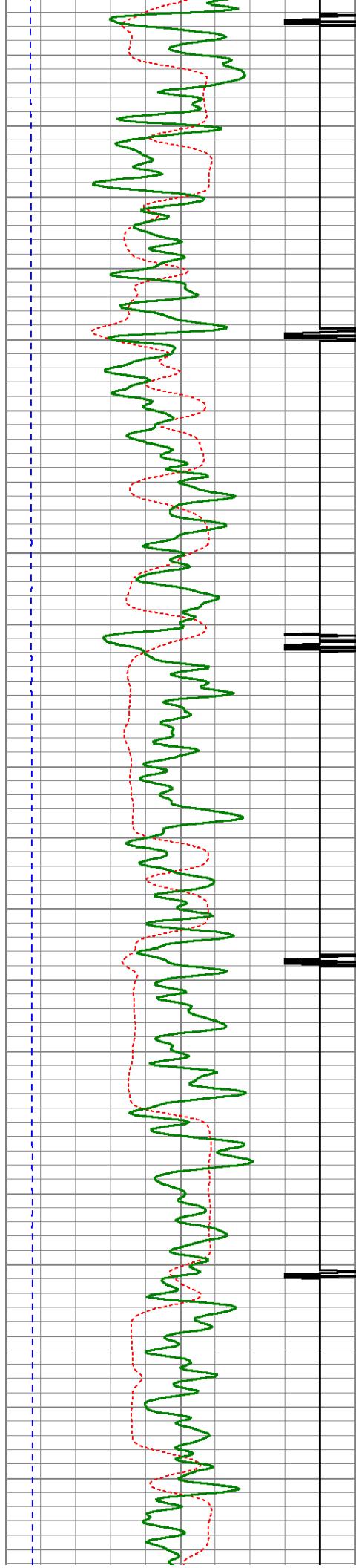
1150

1200

1250





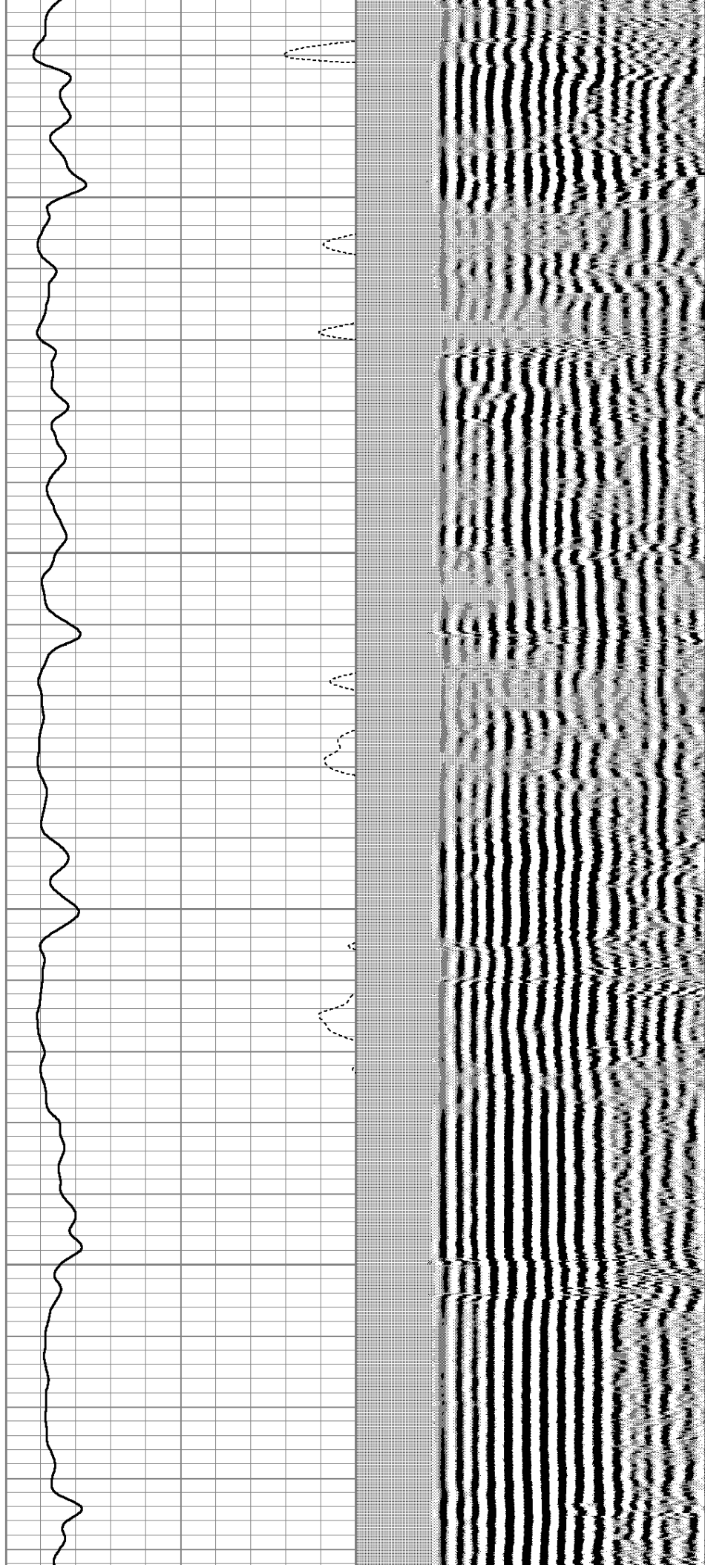


1300

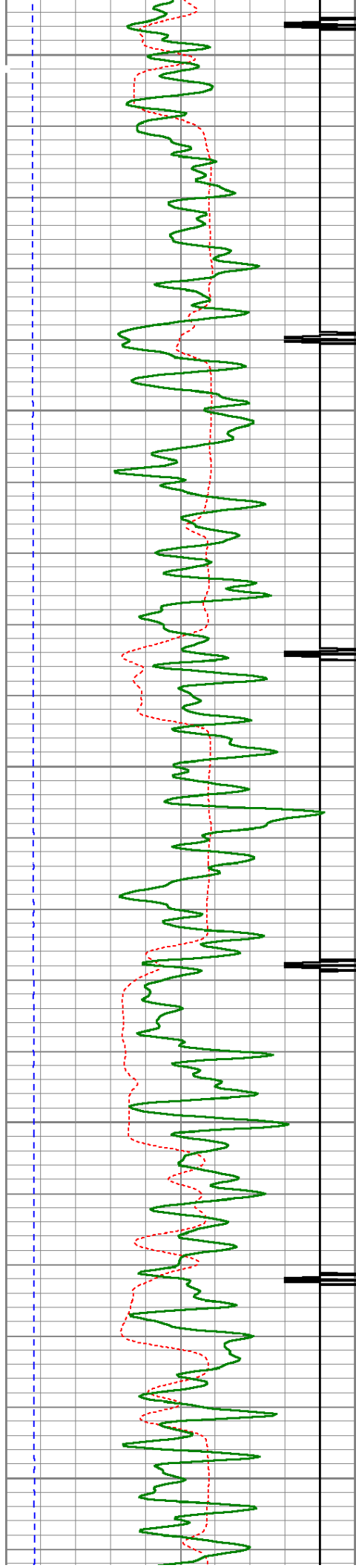
1350

1400

1450







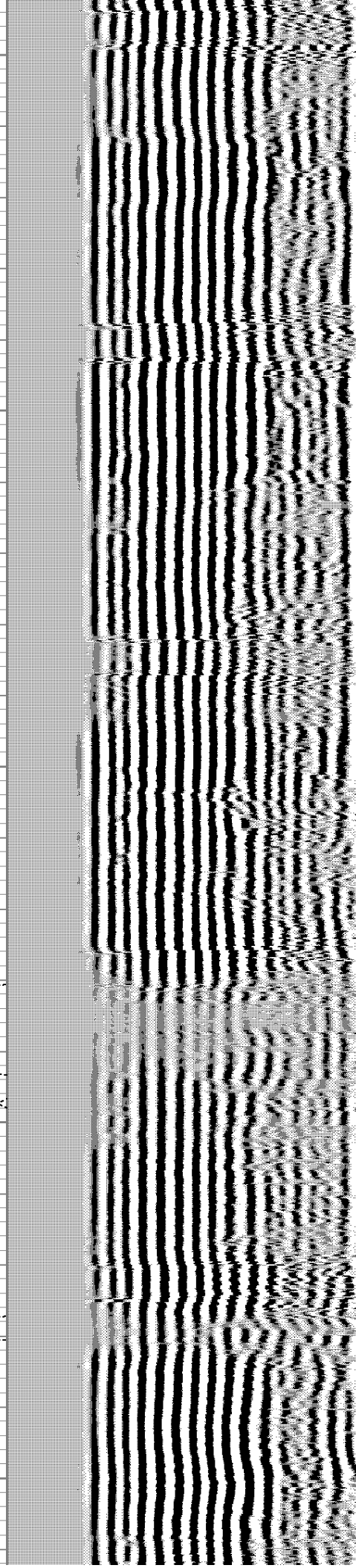
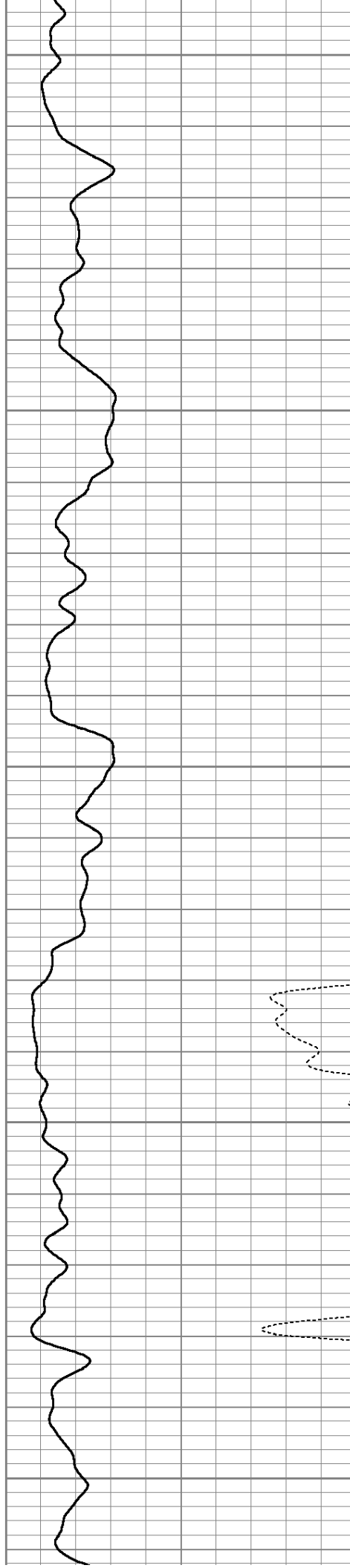
1500

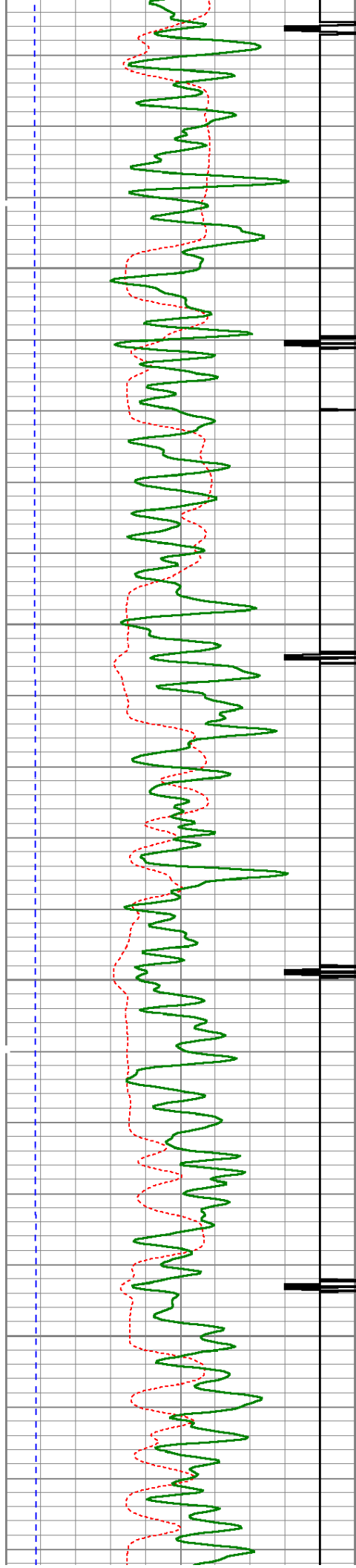
1550

1600

1650

1700



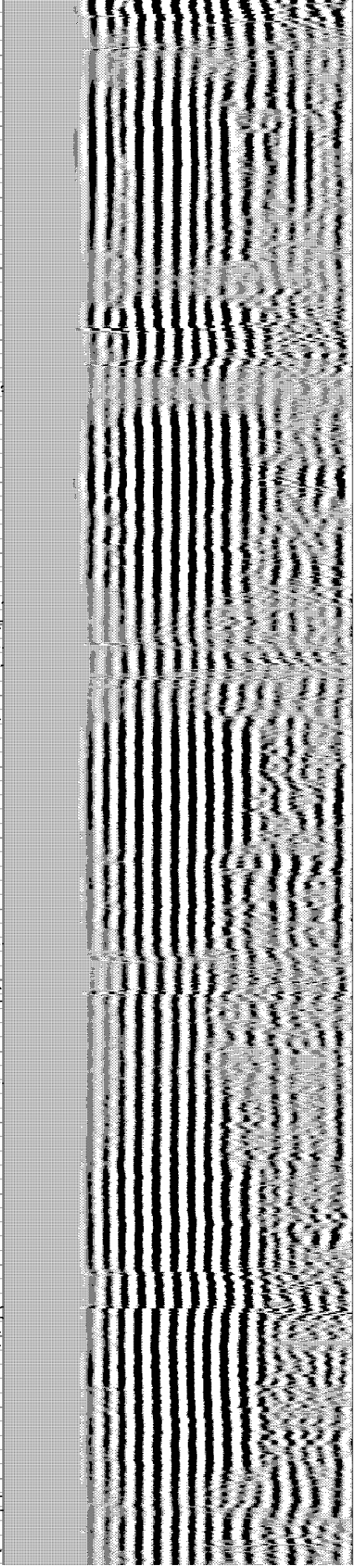
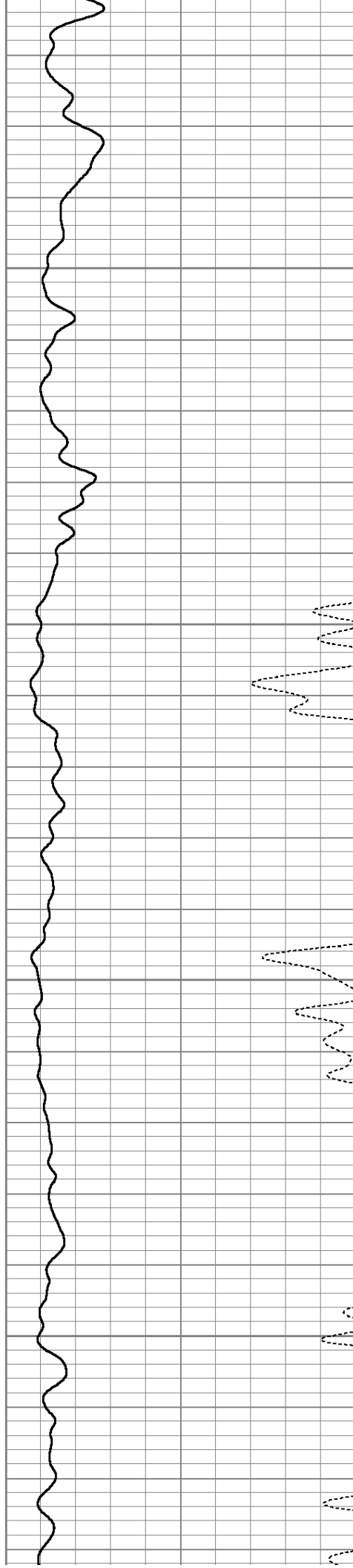


1750

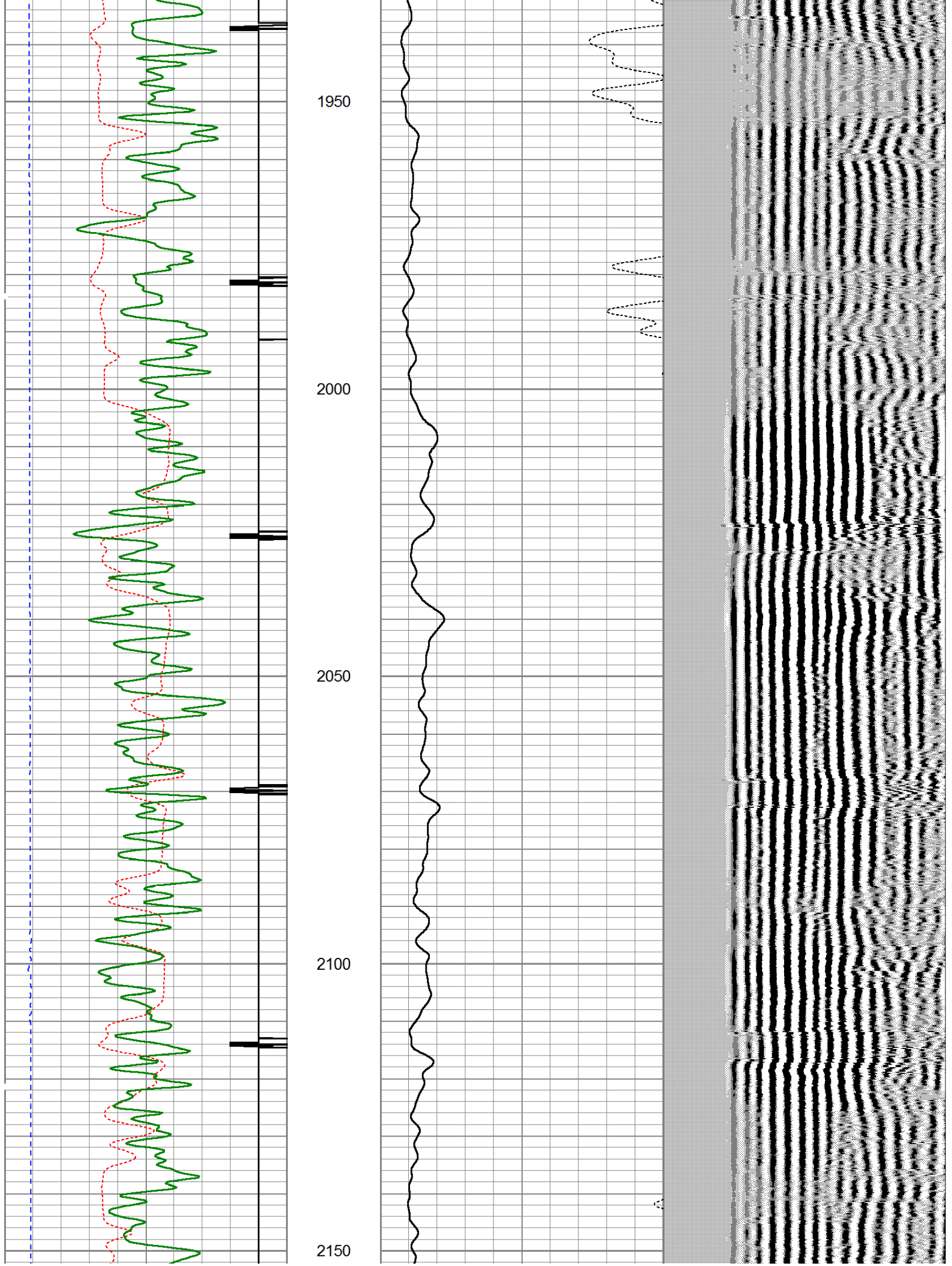
1800

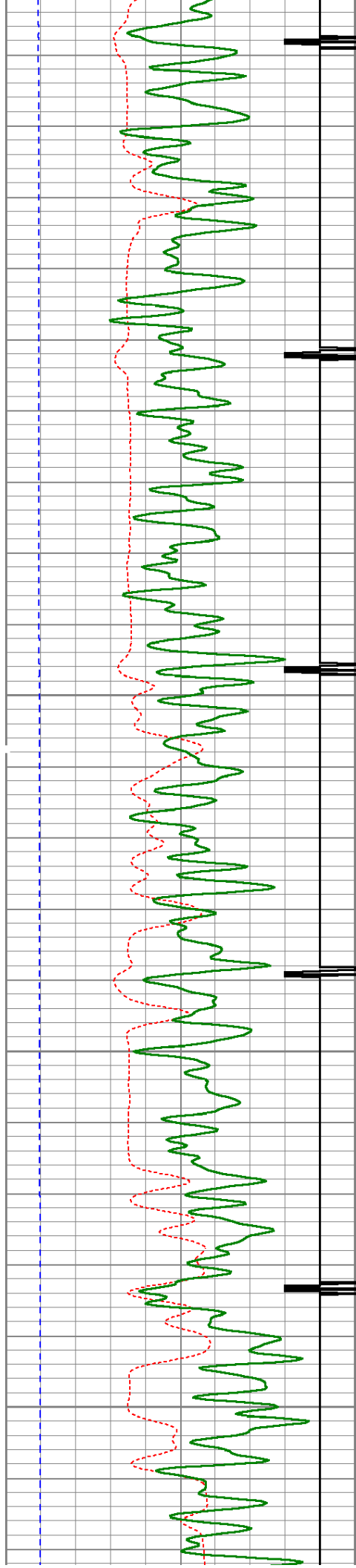
1850

1900







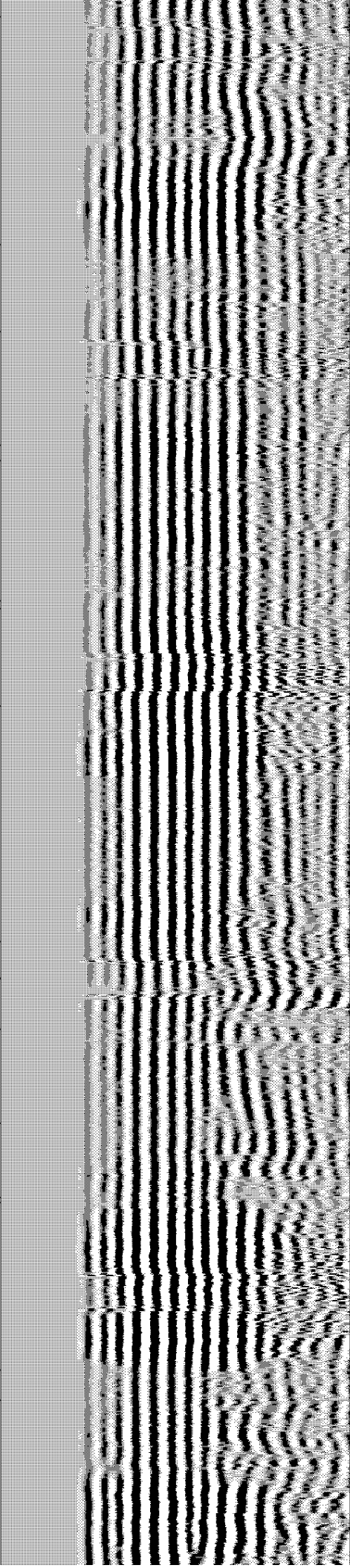
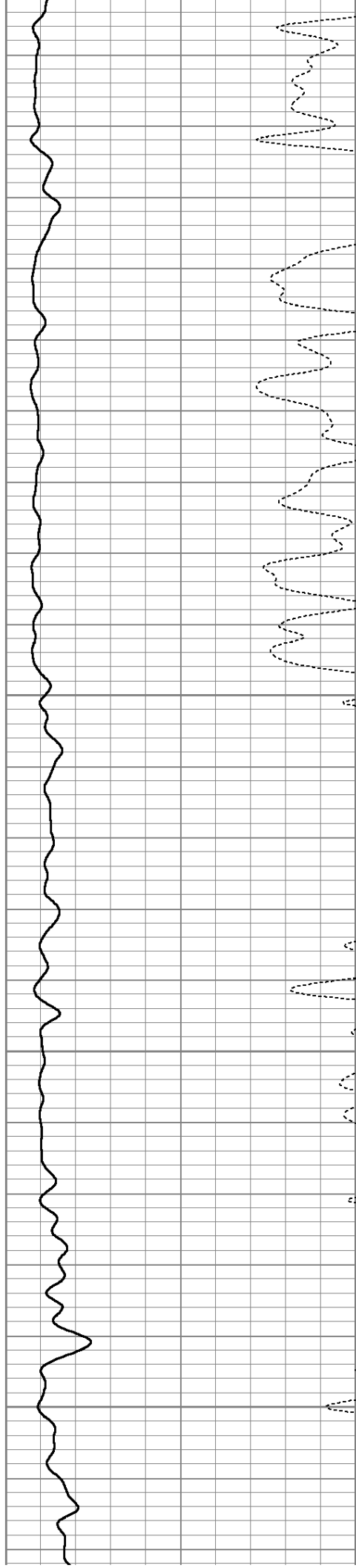


2200

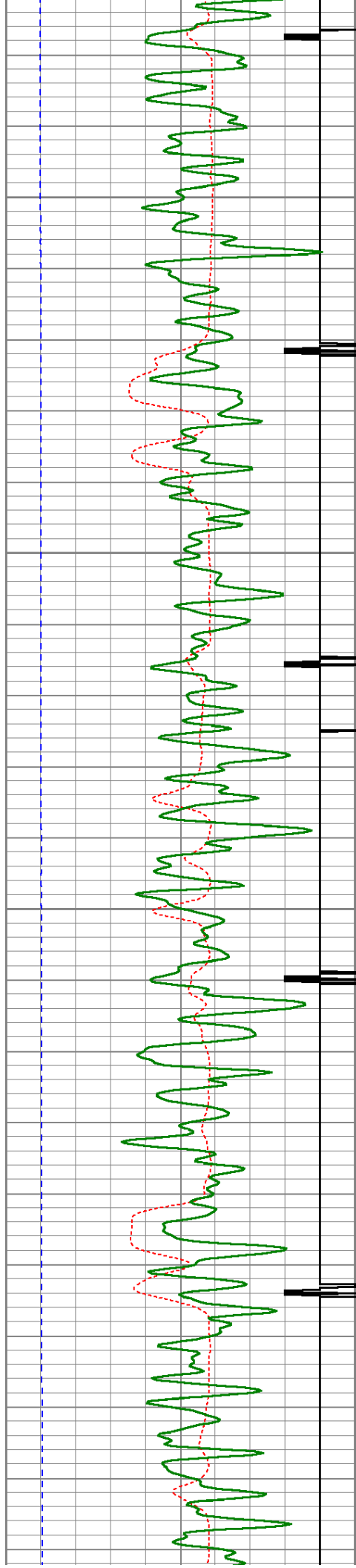
2250

2300

2350





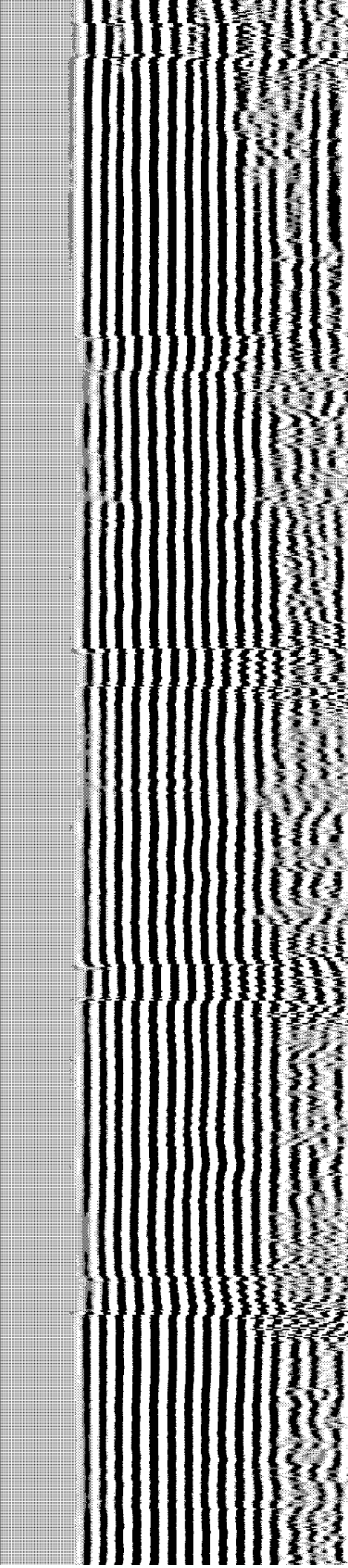
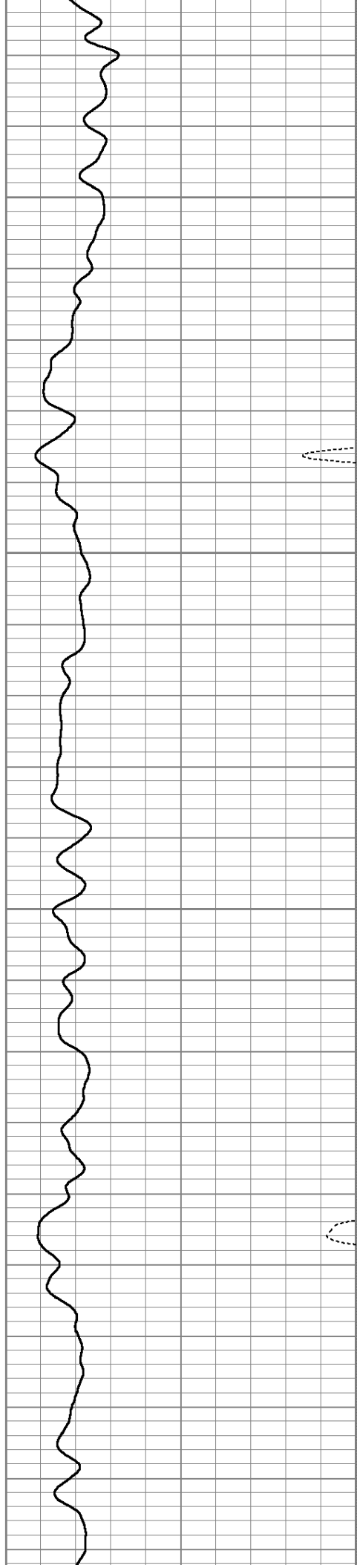


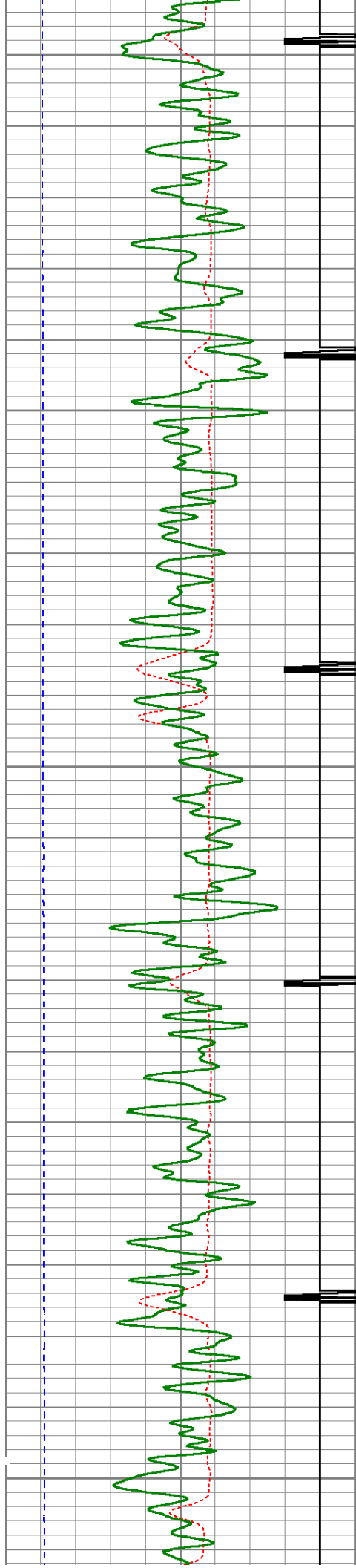
2400

2450

2500

2550





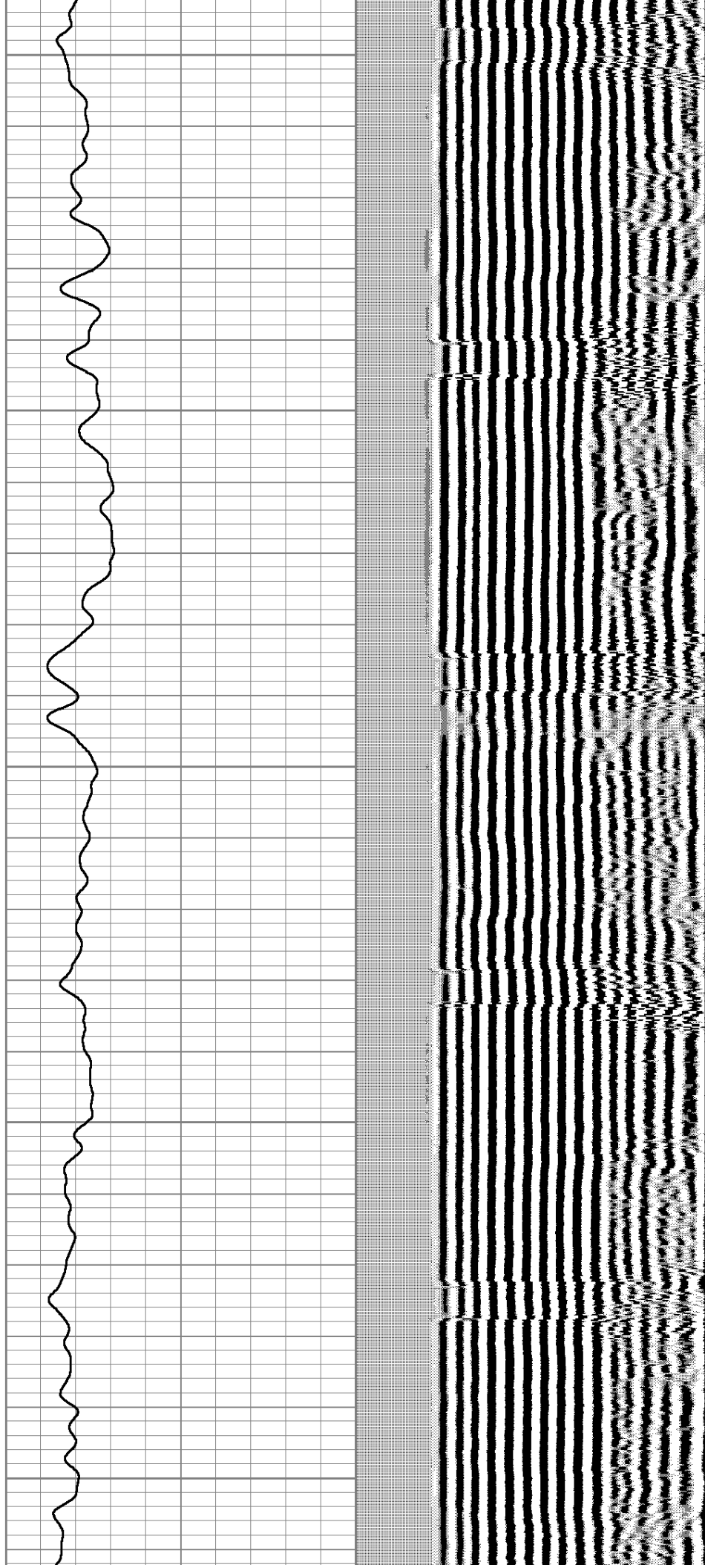
2600

2650

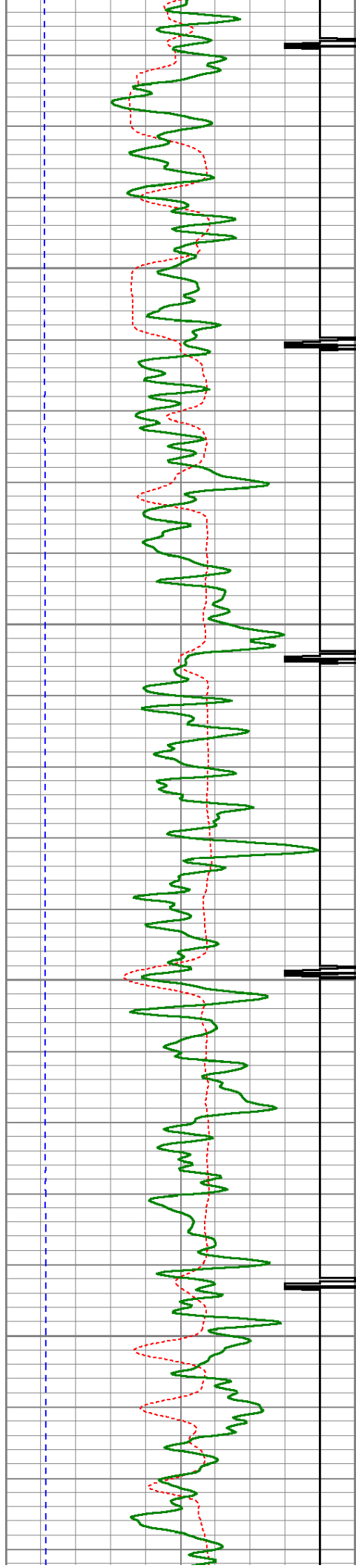
2700

2750

2800





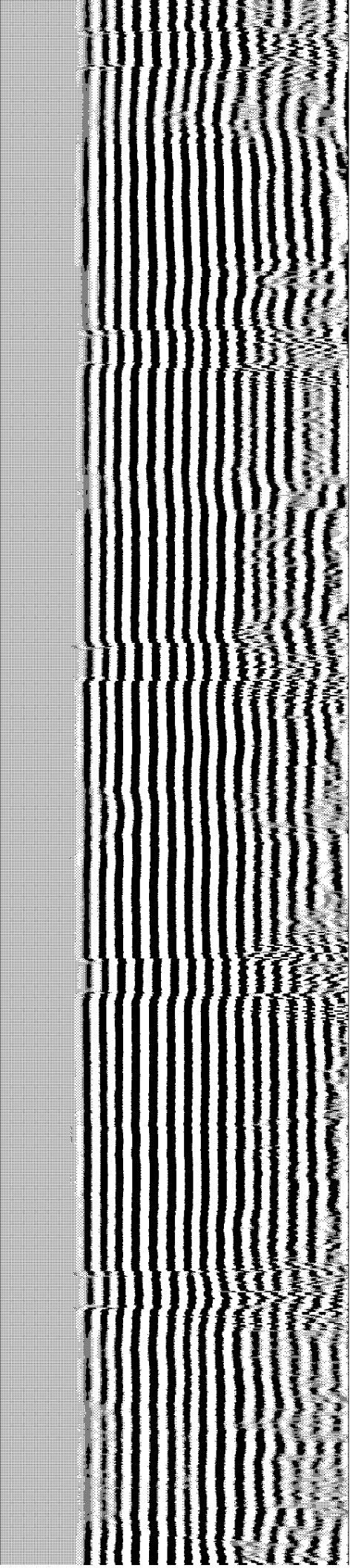
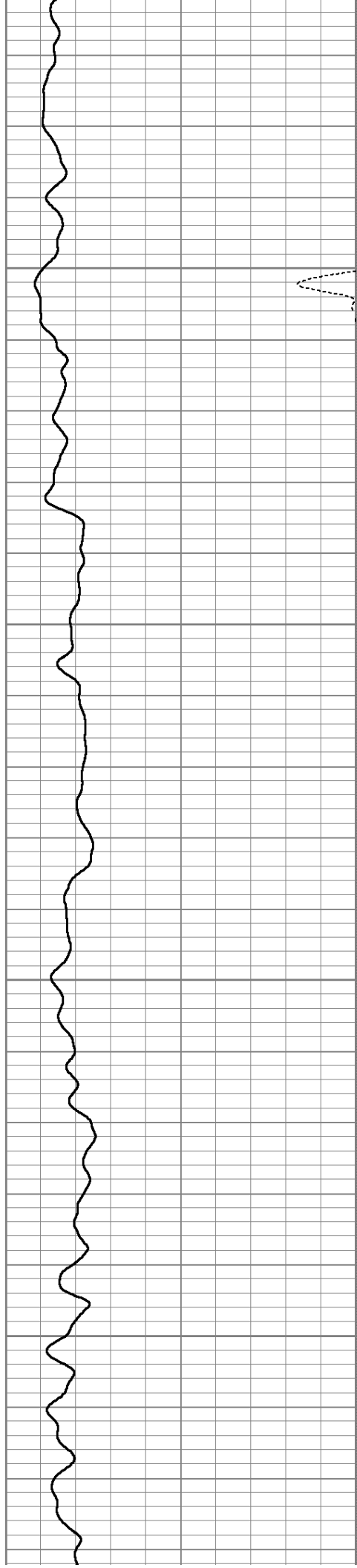


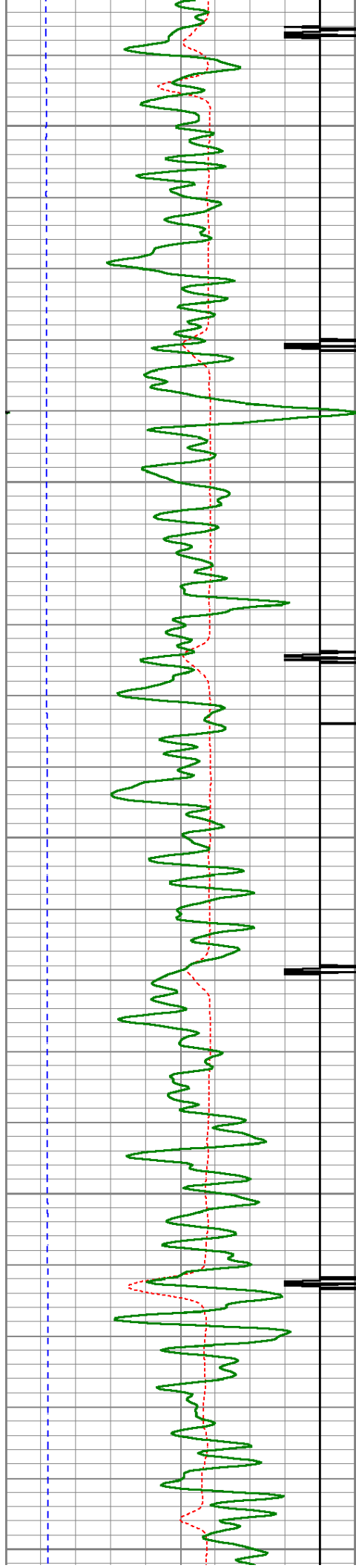
2850

2900

2950

3000





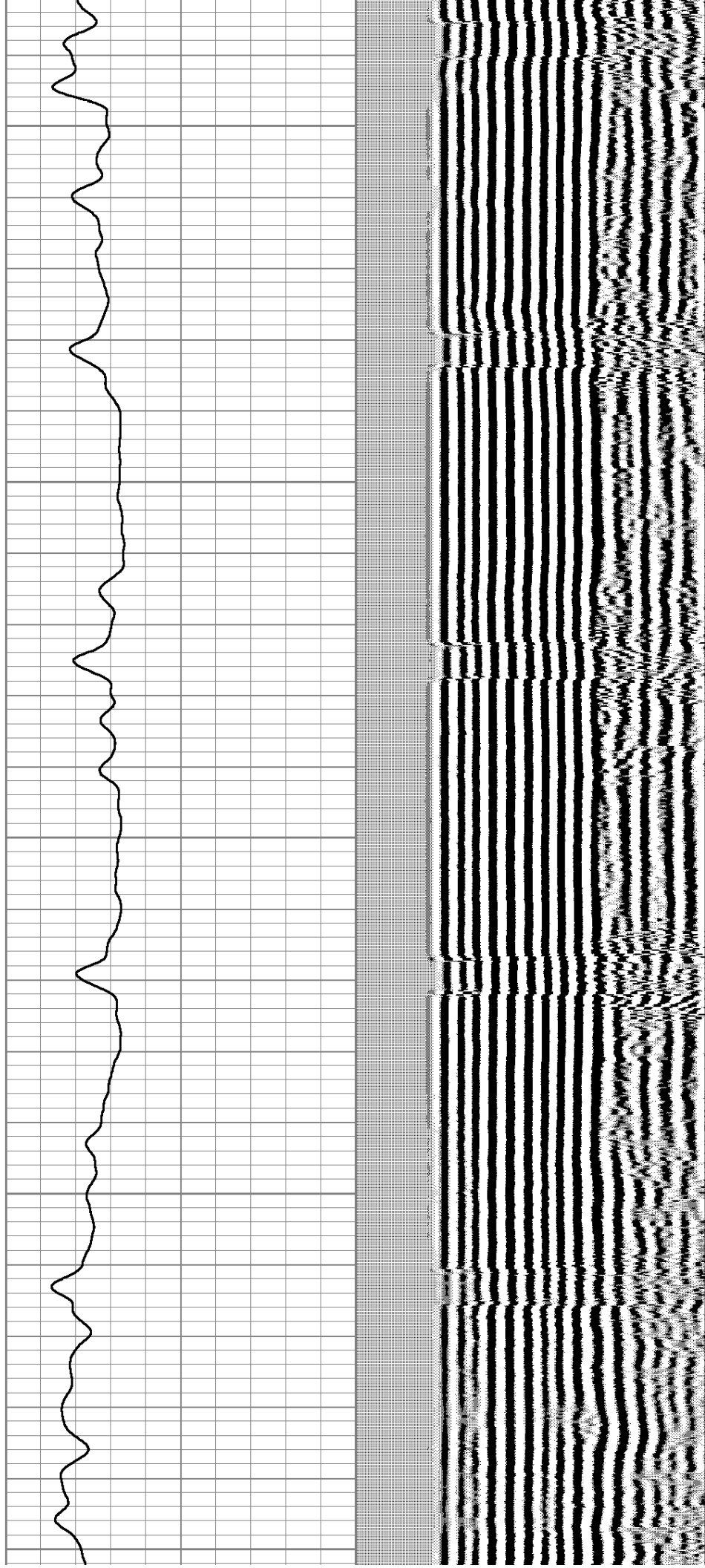
3050

3100

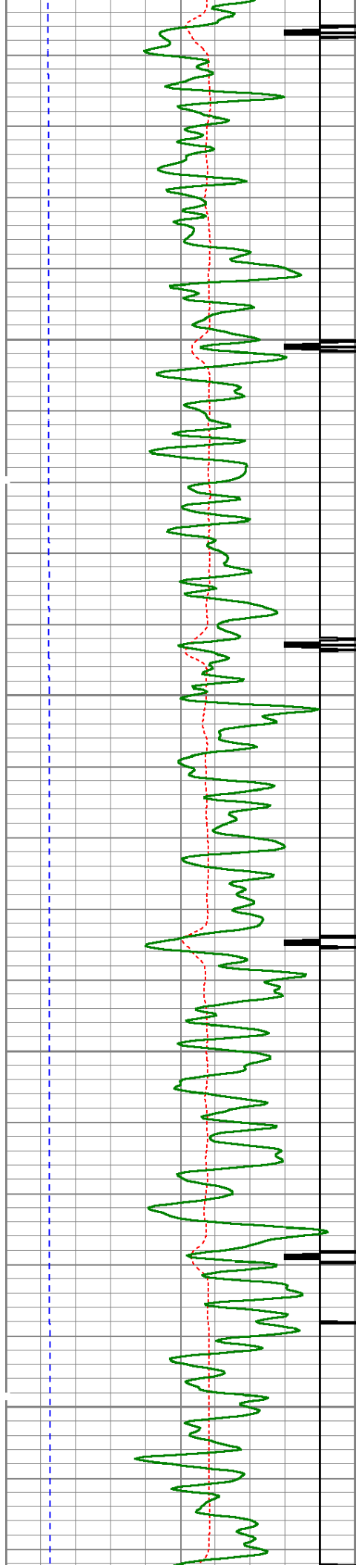
3150

3200

3250





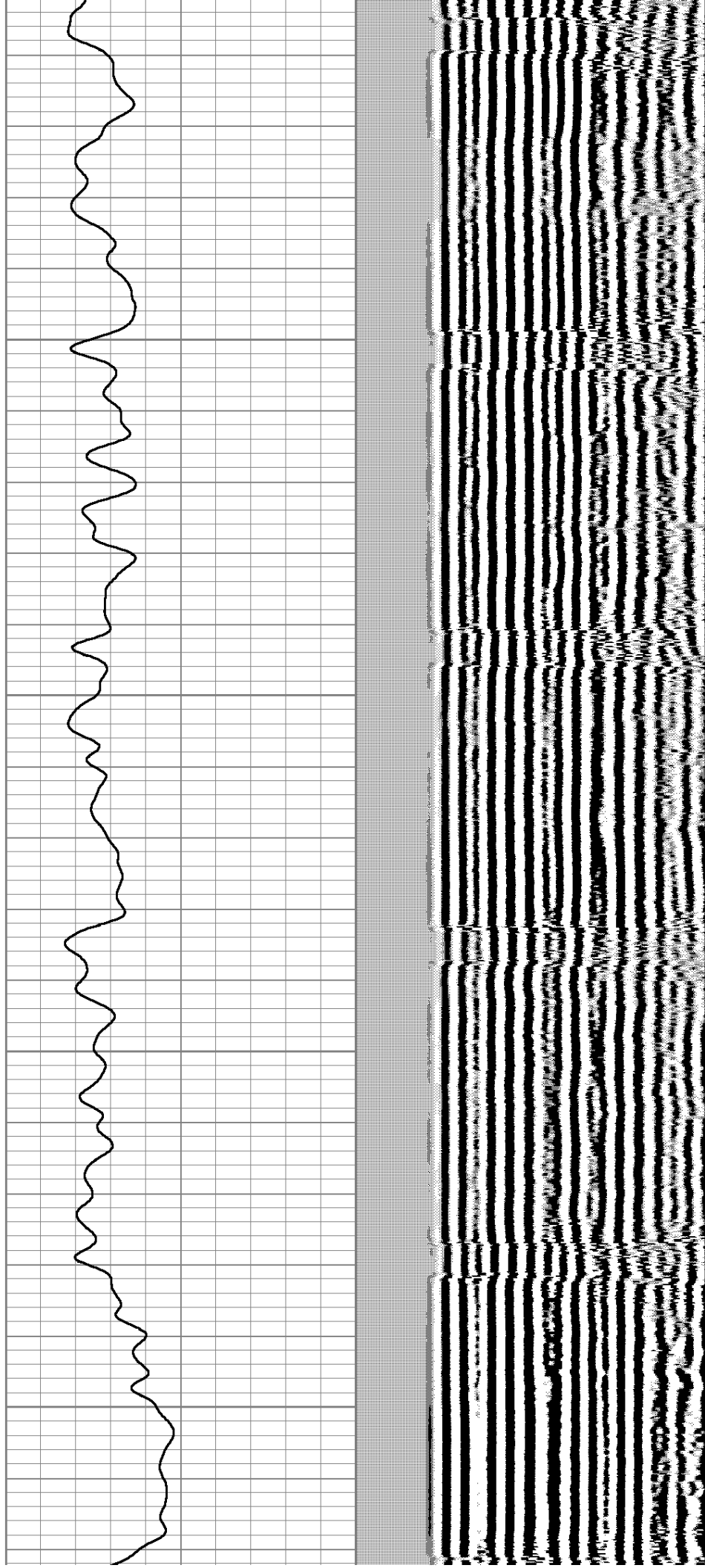


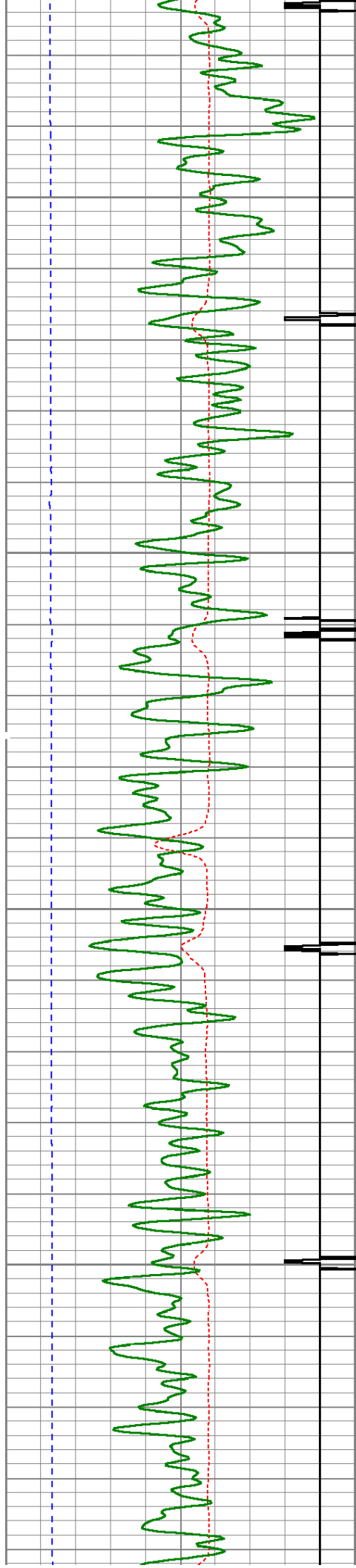
3300

3350

3400

3450



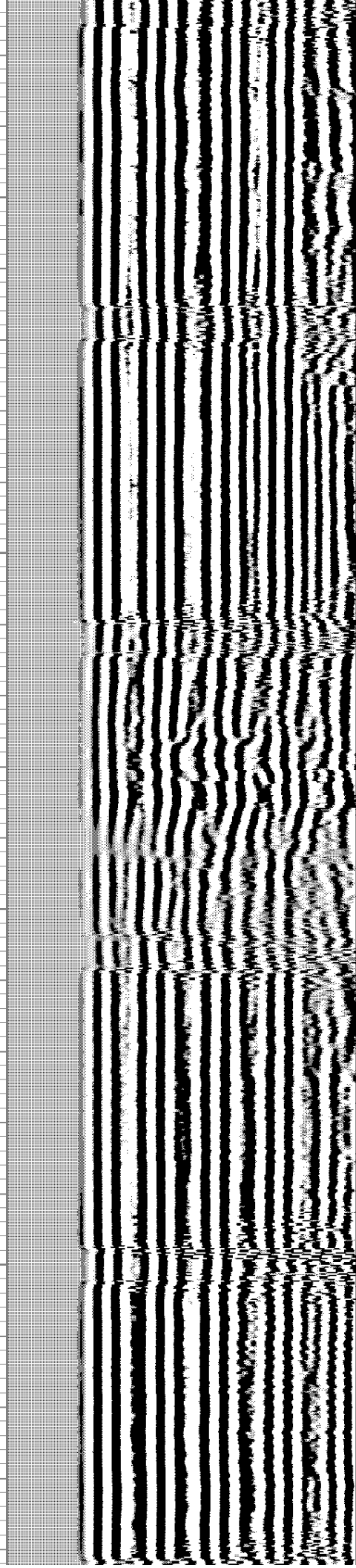
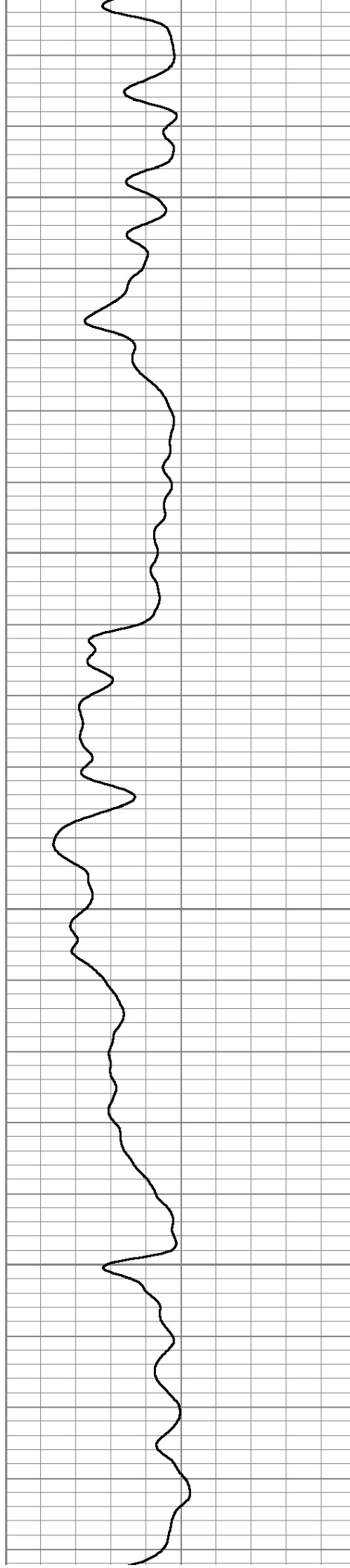


3500

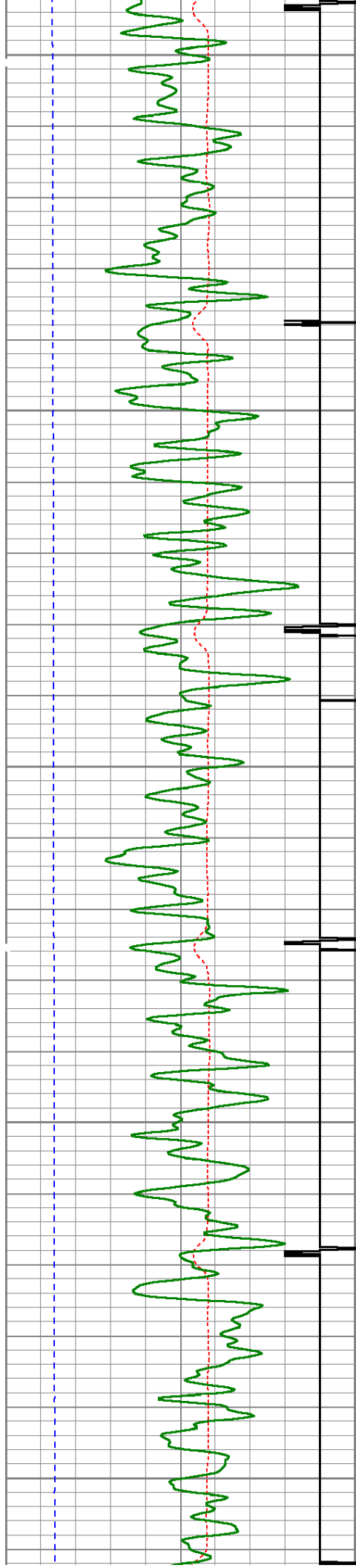
3550

3600

3650







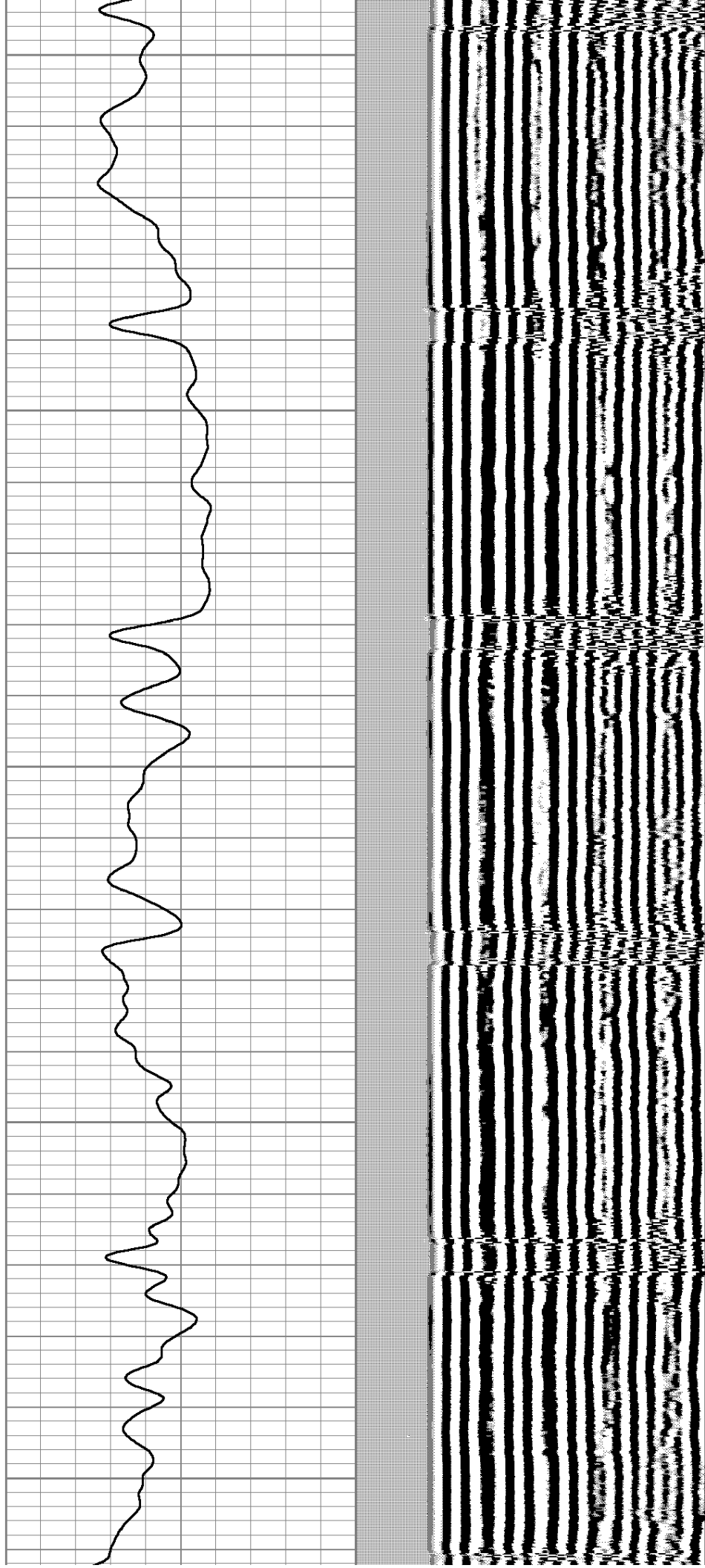
3700

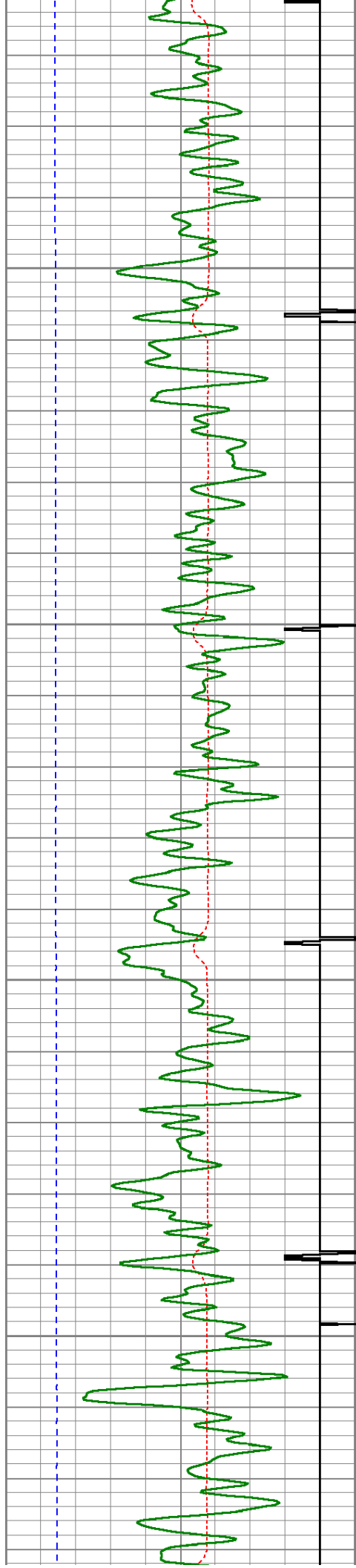
3750

3800

3850

3900



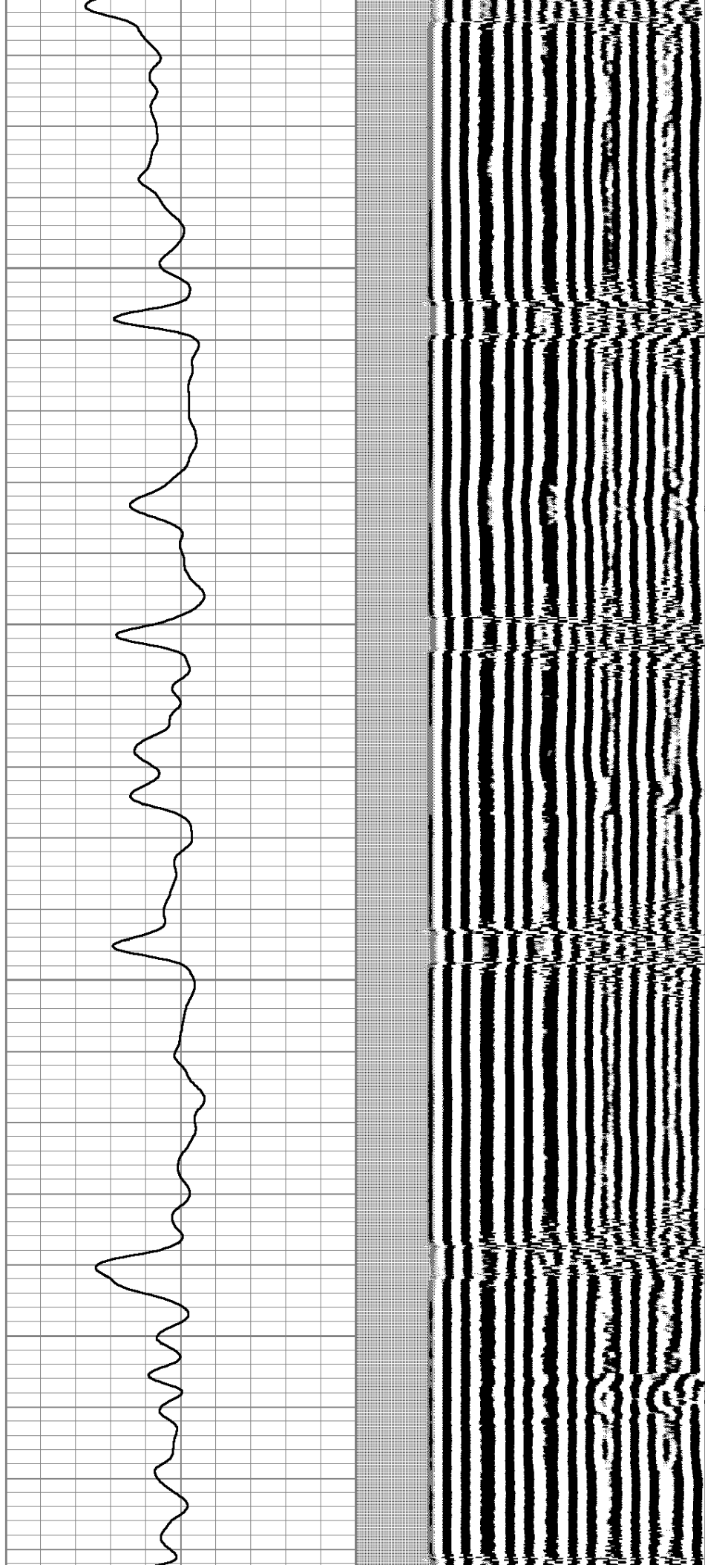


3950

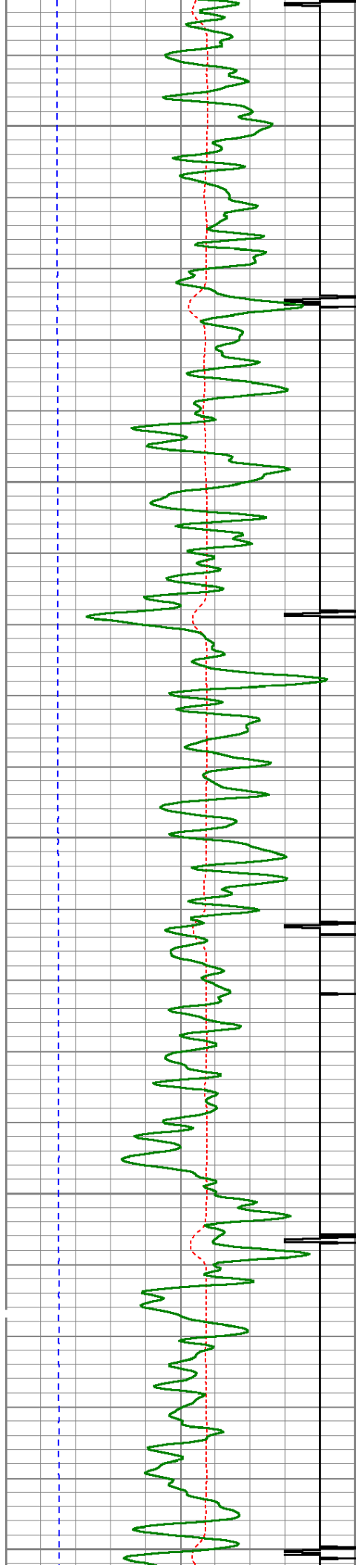
4000

4050

4100







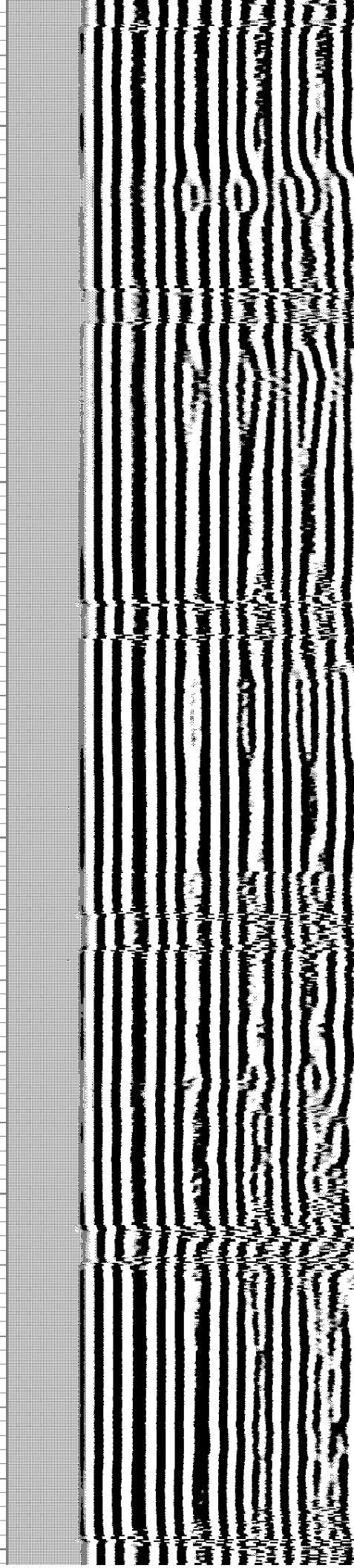
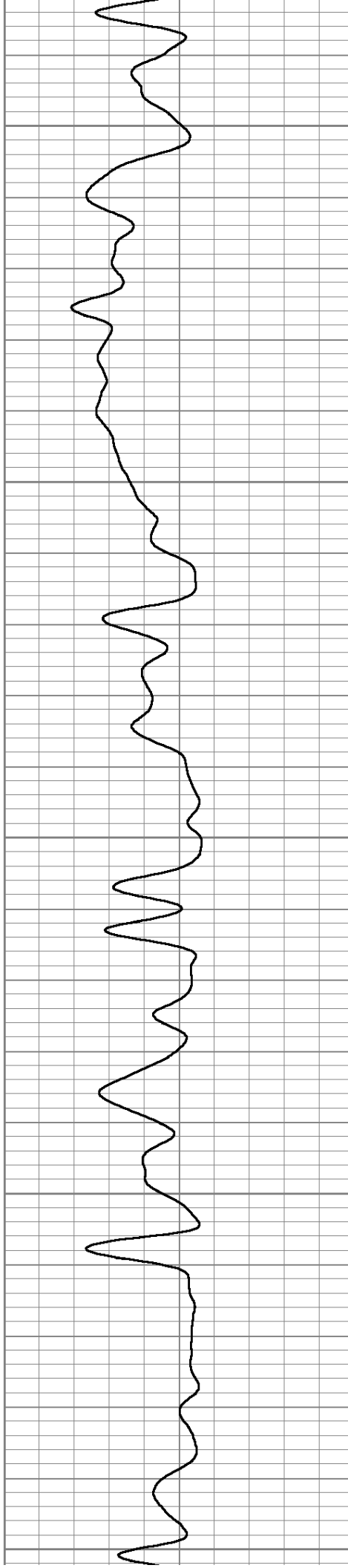
4150

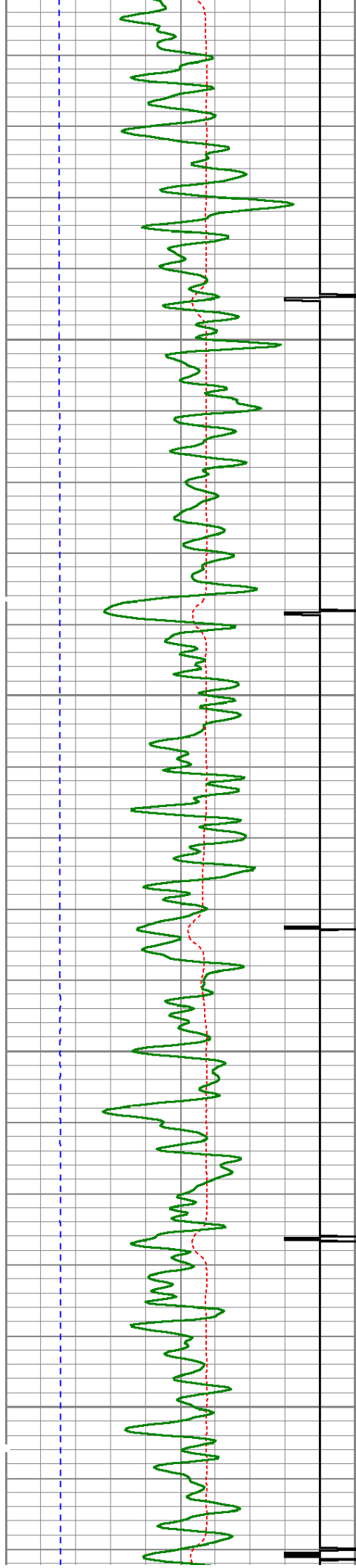
4200

4250

4300

4350



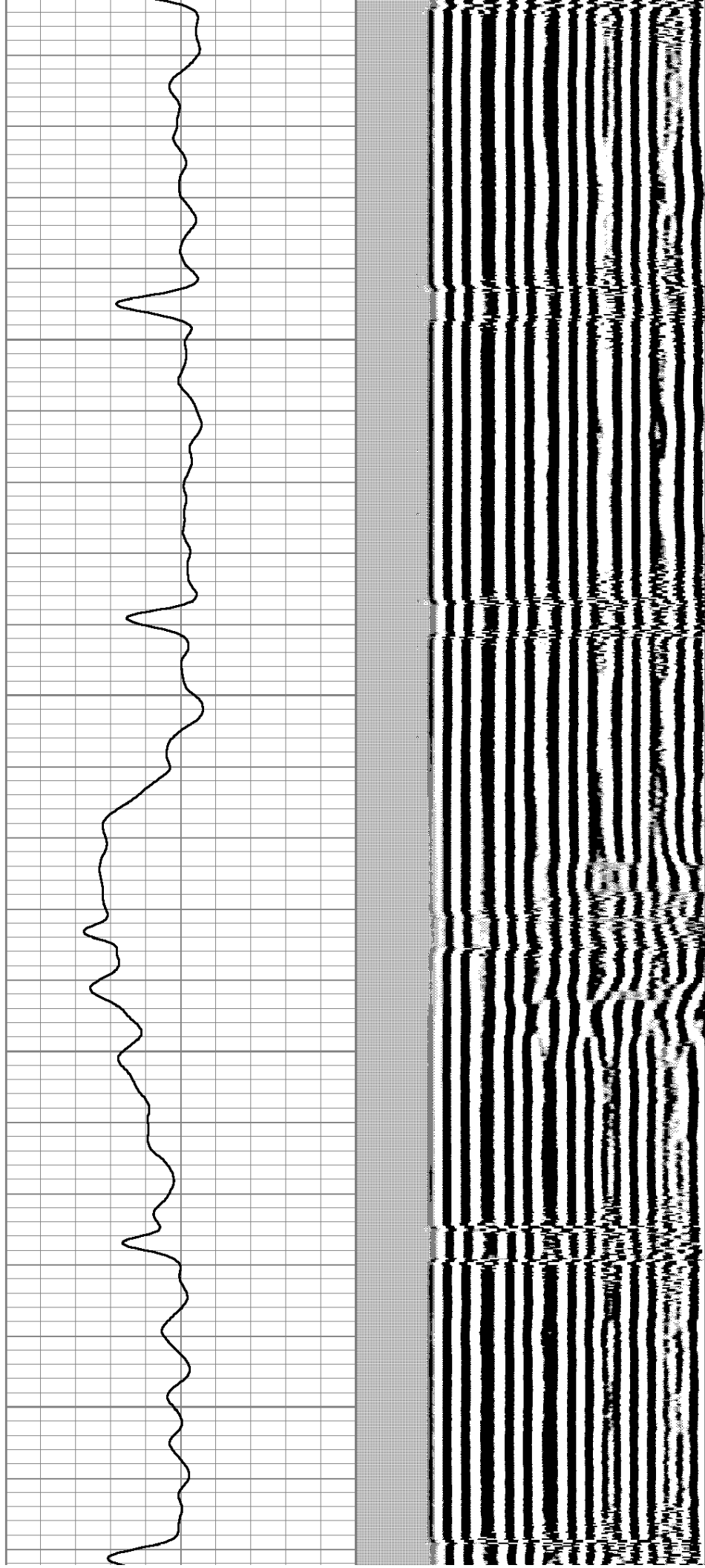


4400

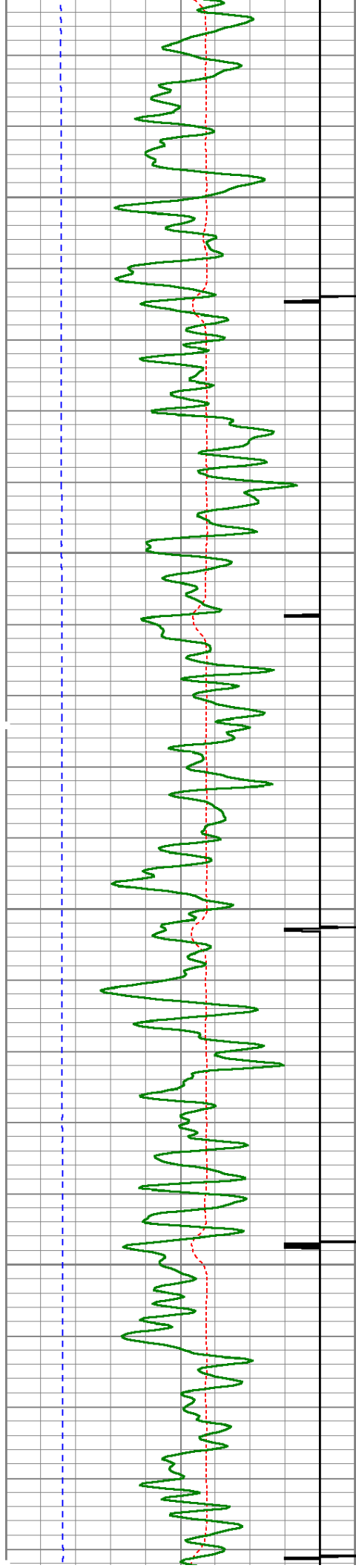
4450

4500

4550





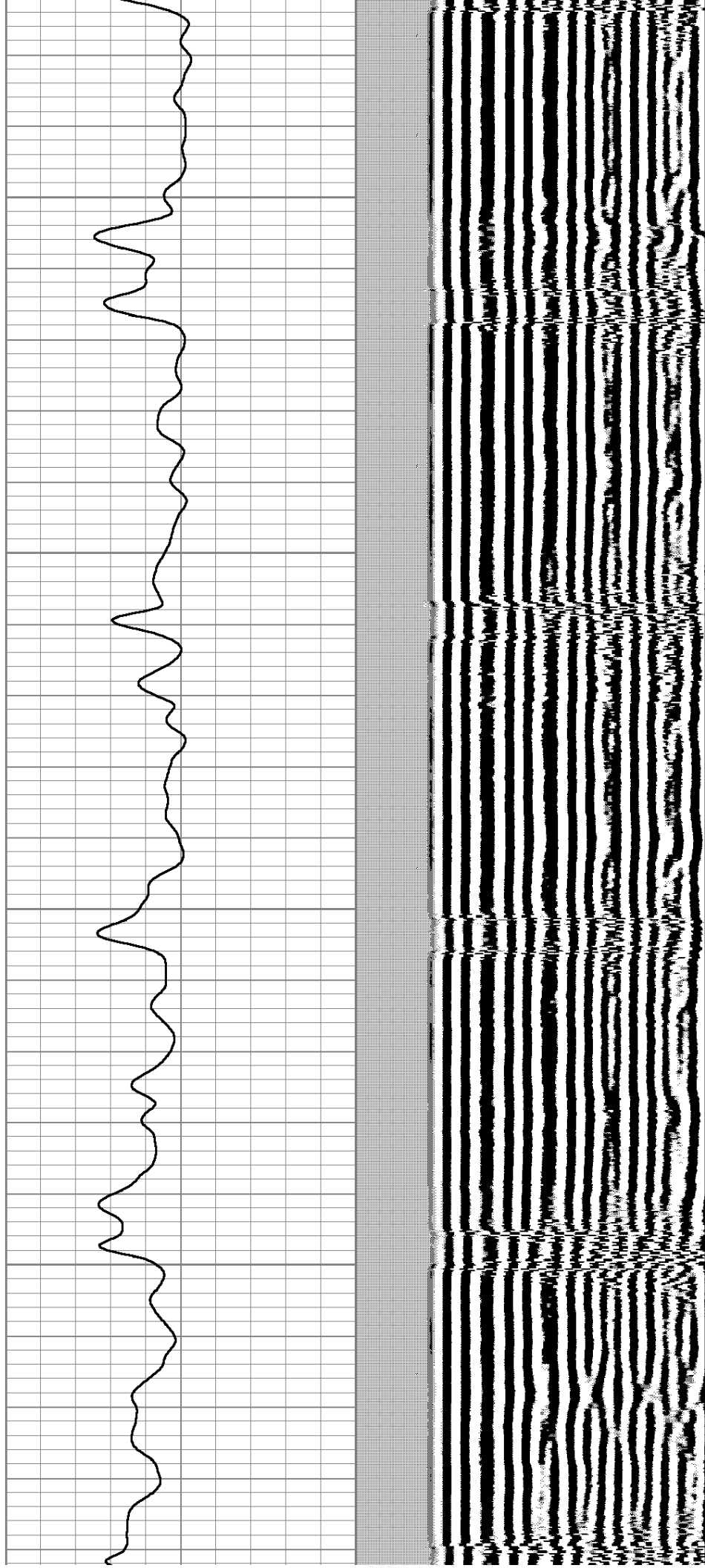


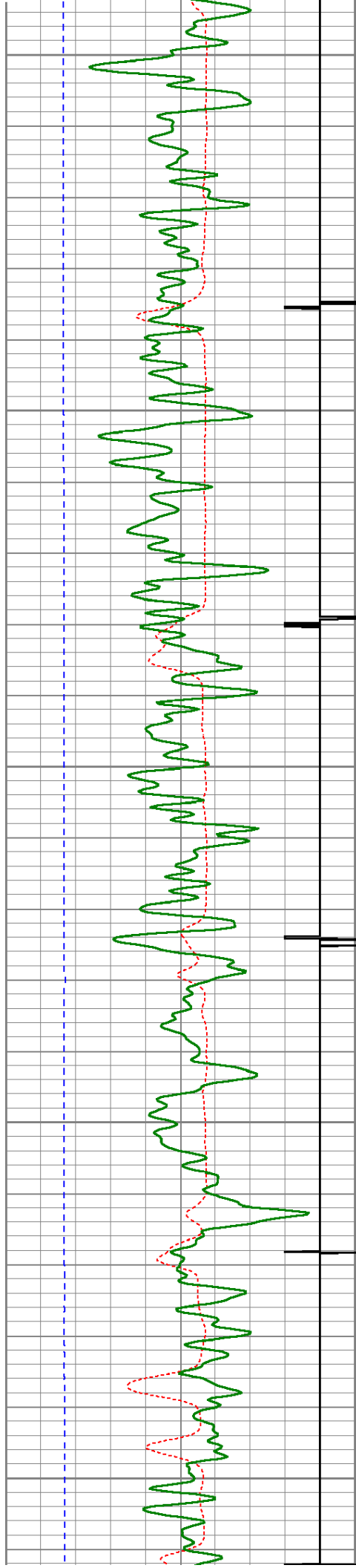
4600

4650

4700

4750





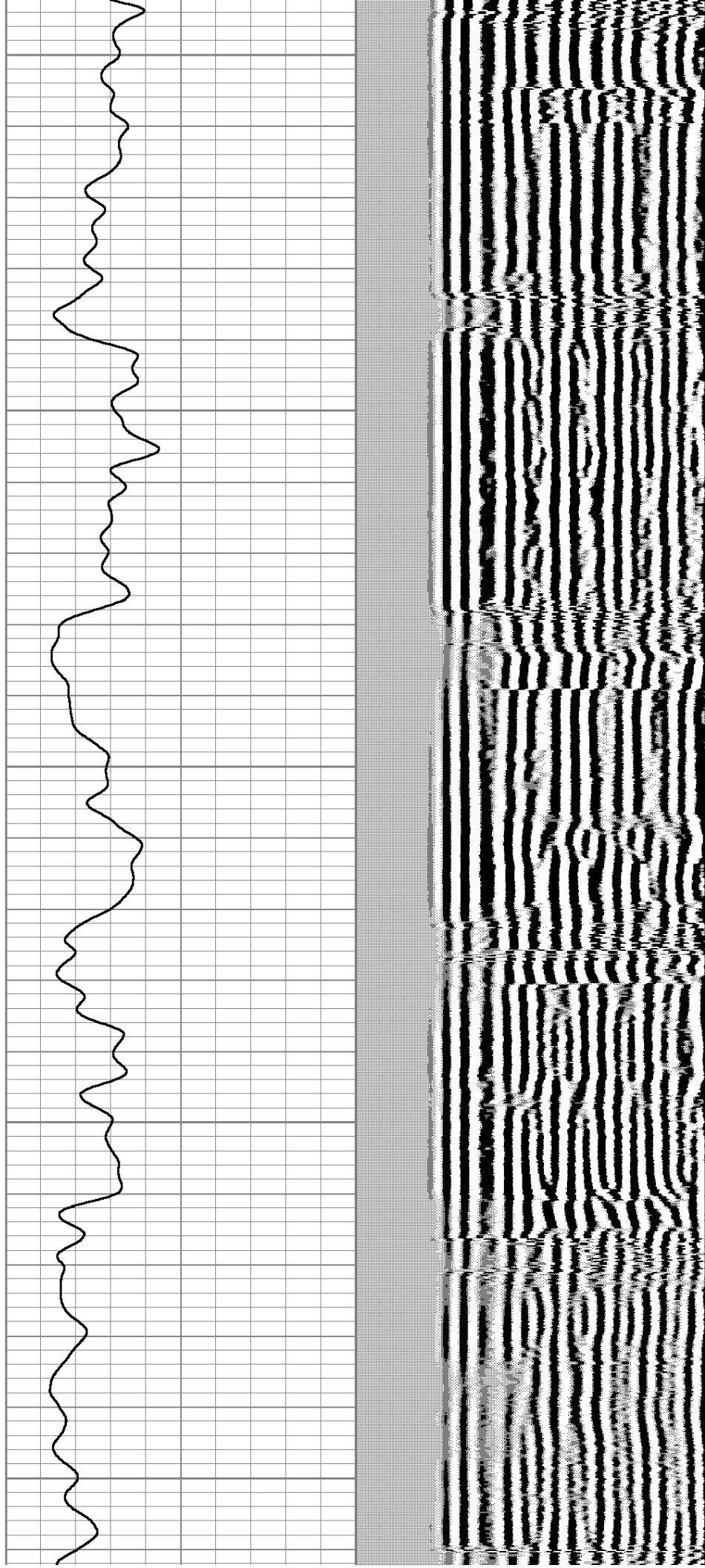
4800

4850

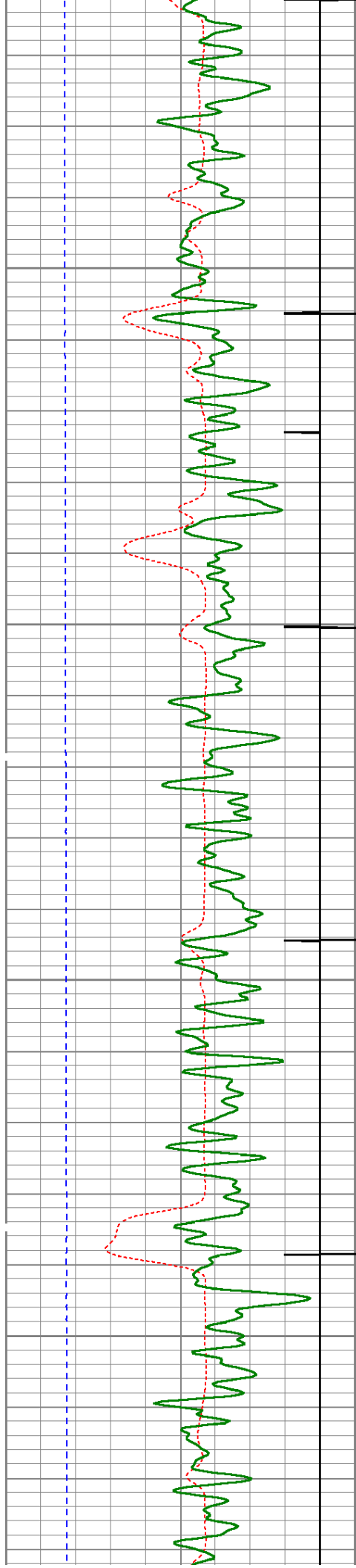
4900

4950

5000





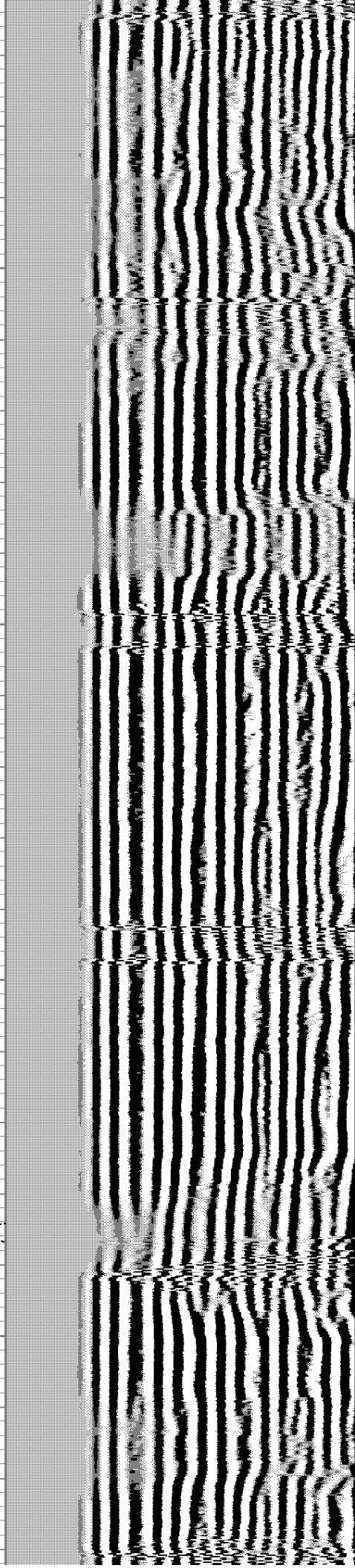
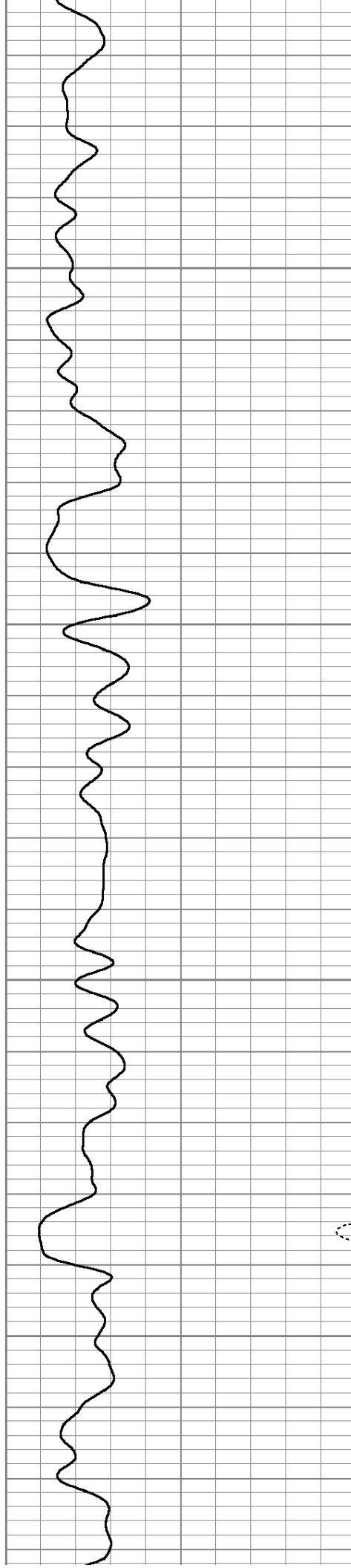


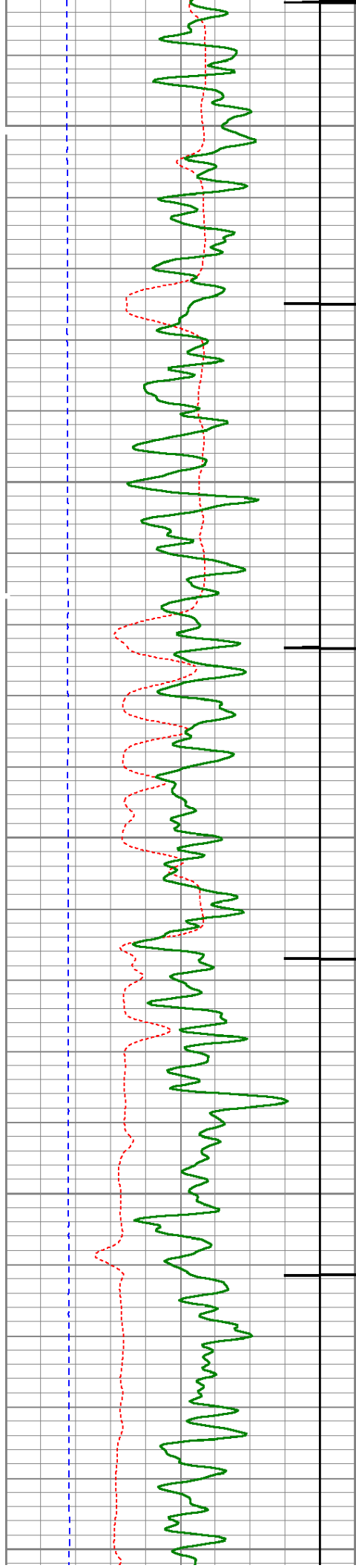
5050

5100

5150

5200





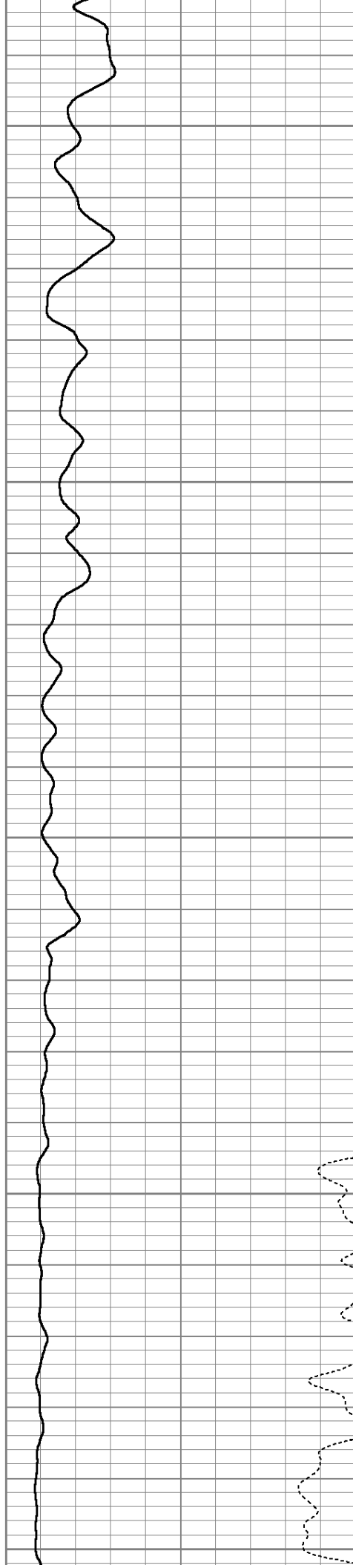
5250

5300

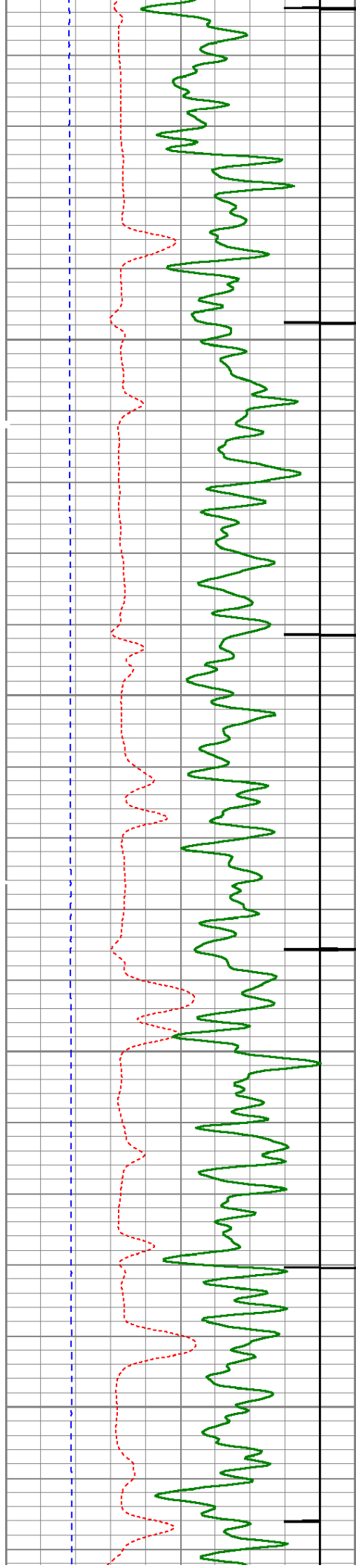
5350

5400

5450





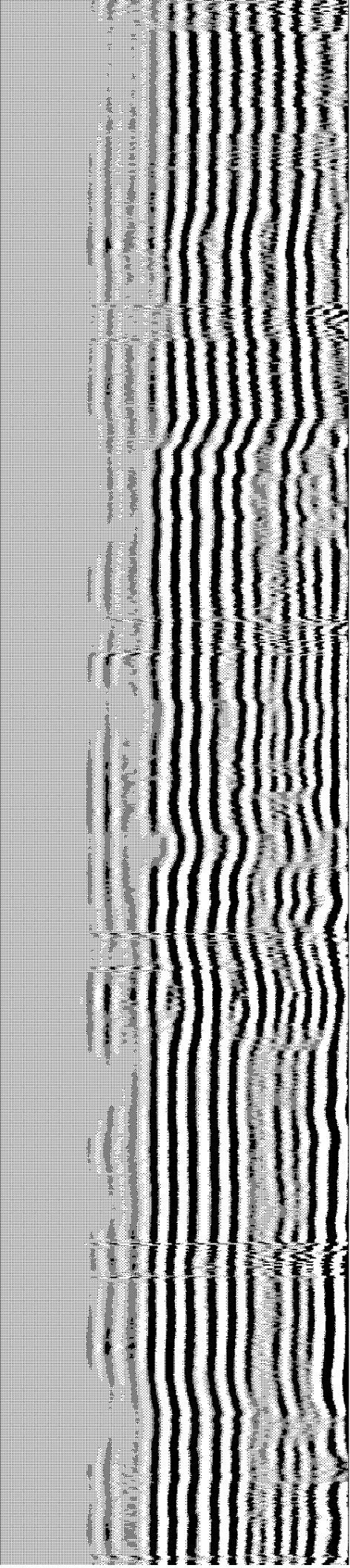
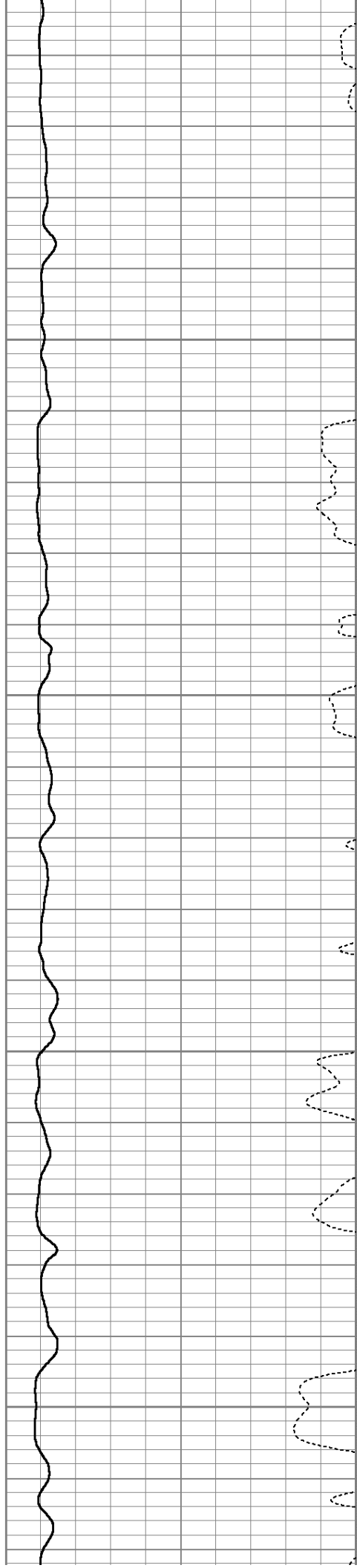


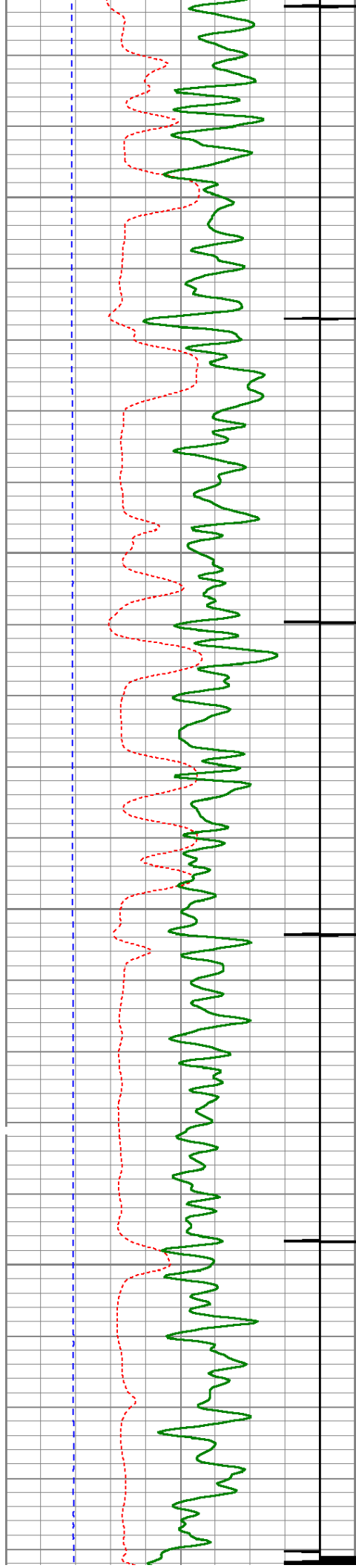
5500

5550

5600

5650



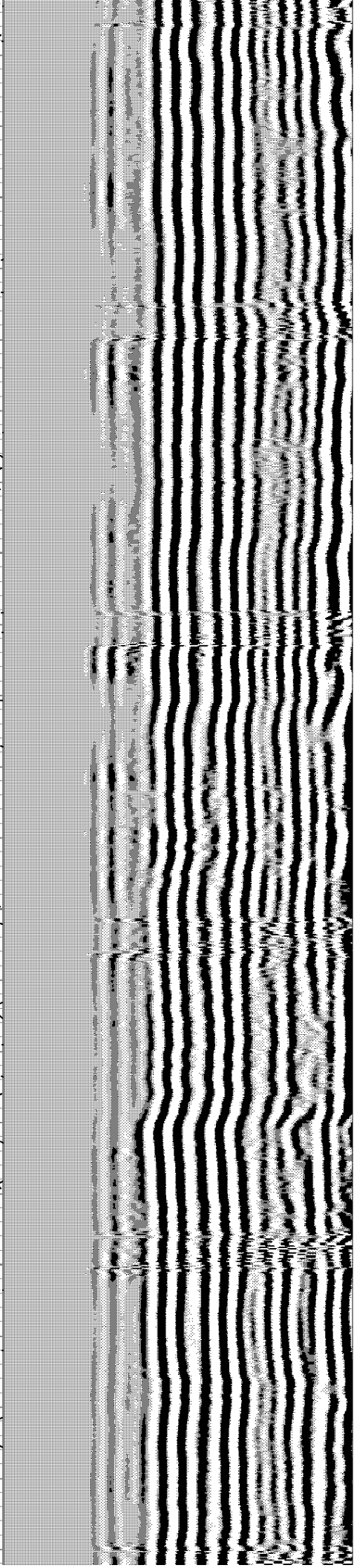
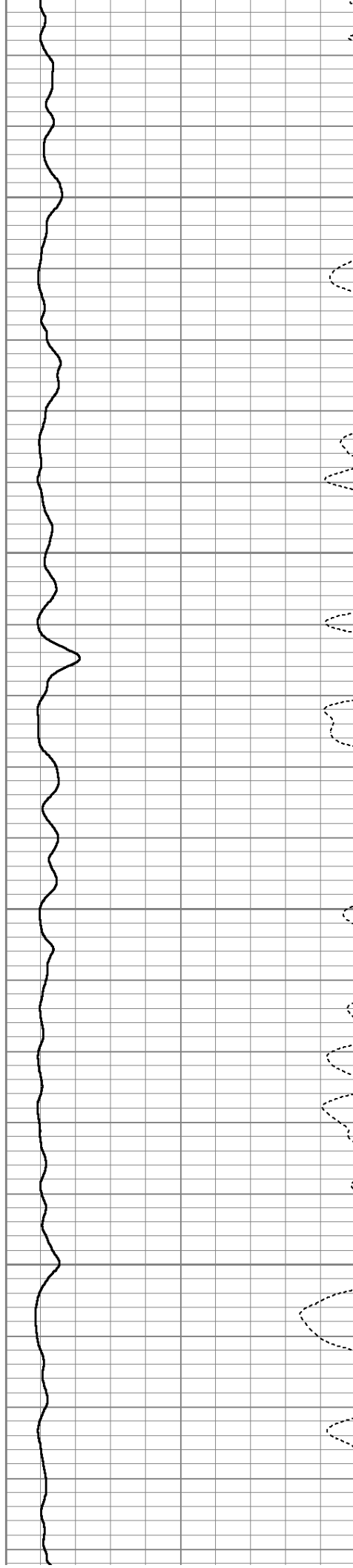


5700

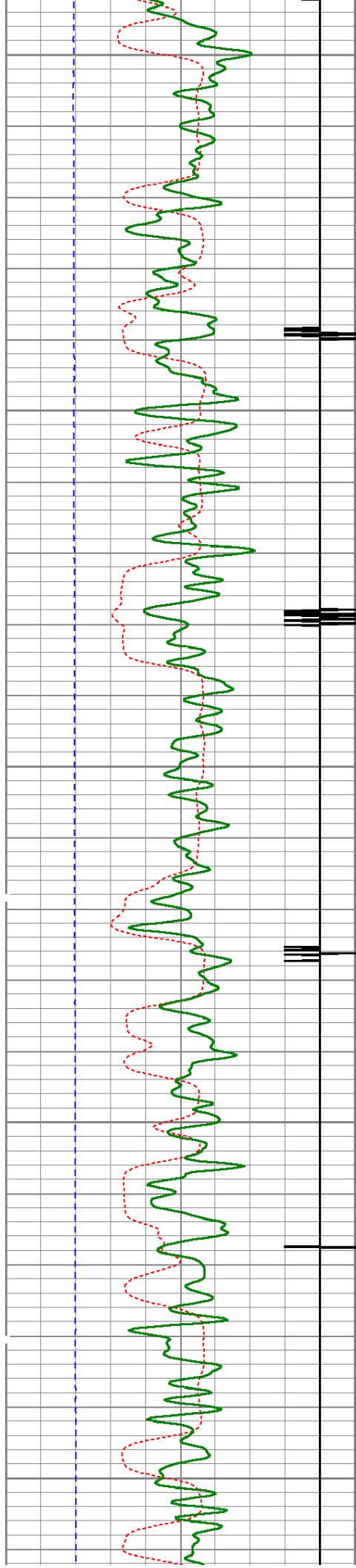
5750

5800

5850







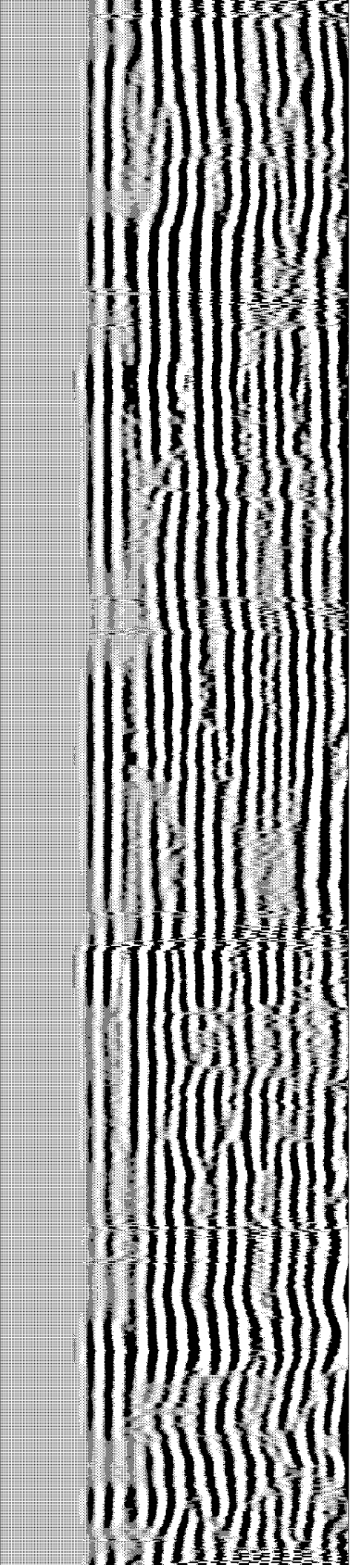
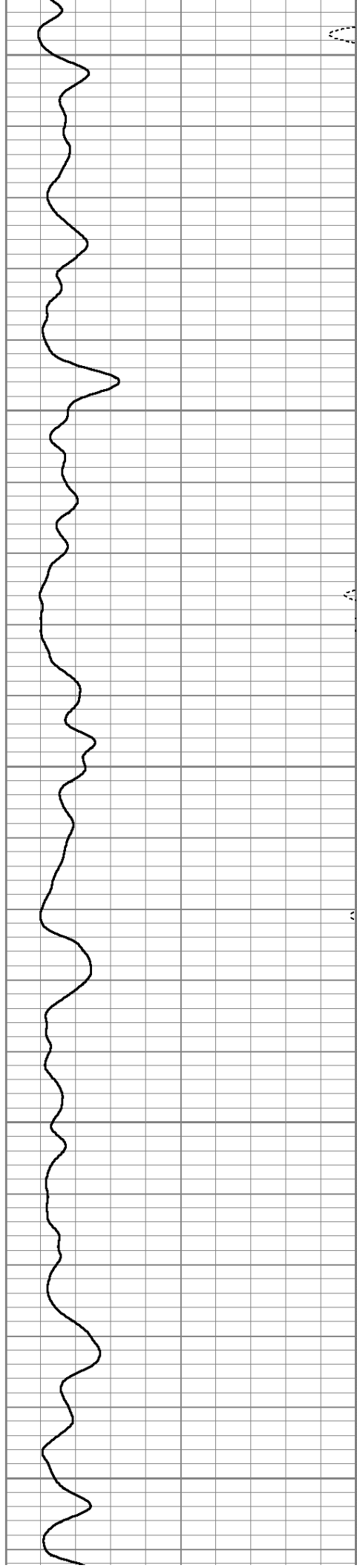
5900

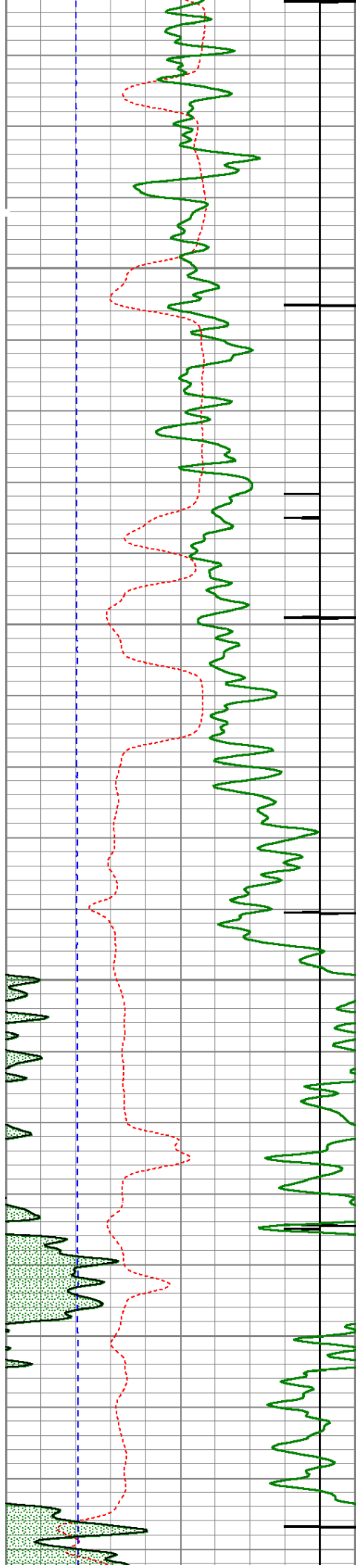
5950

6000

6050

6100



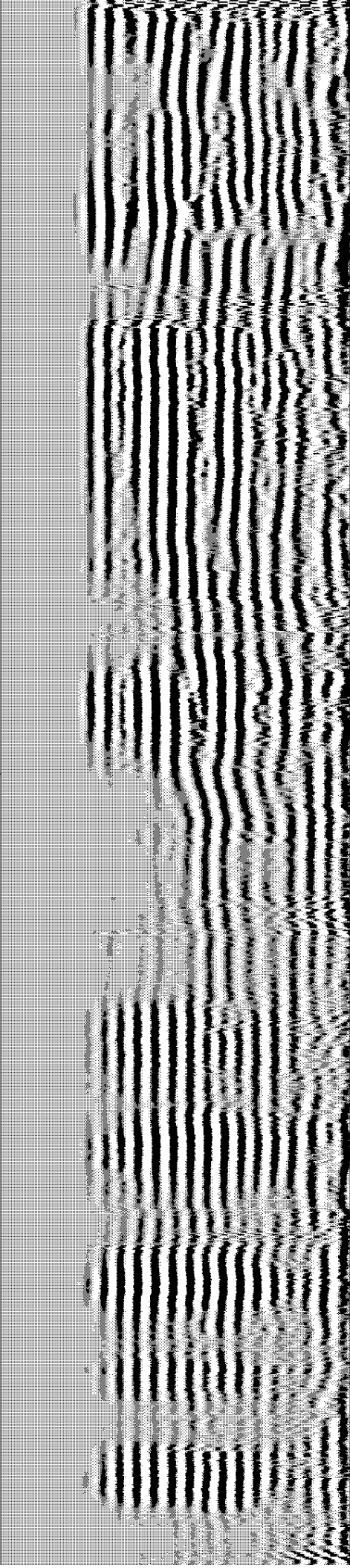
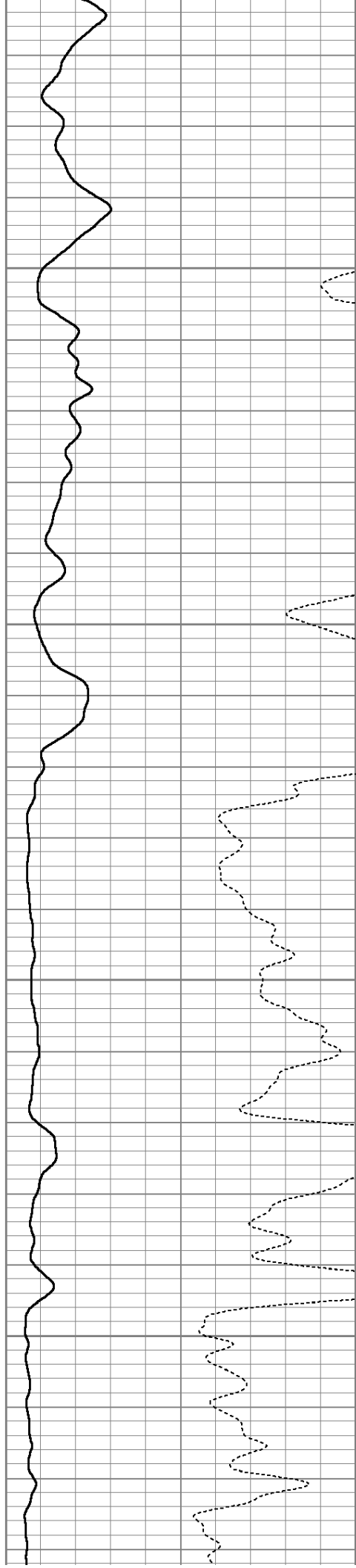


6150

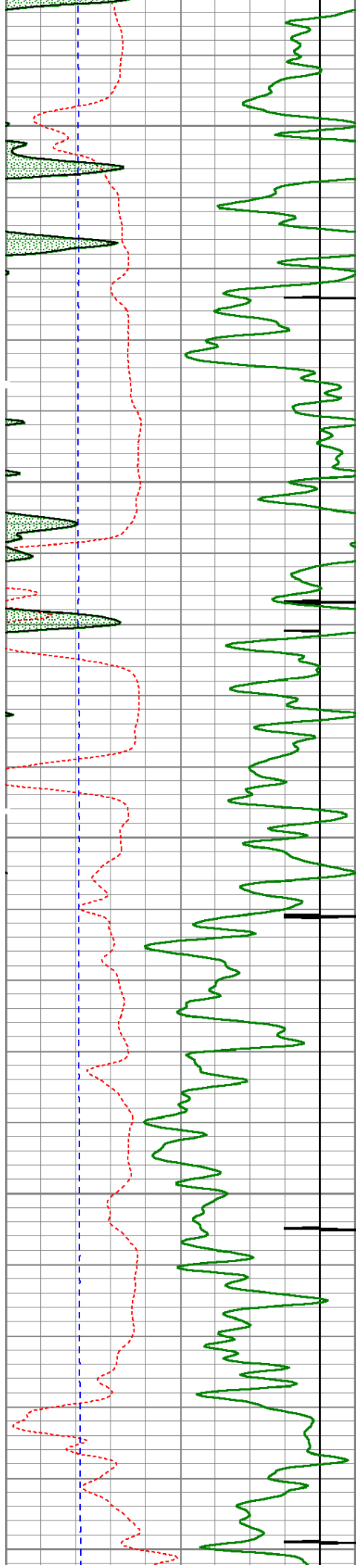
6200

6250

6300







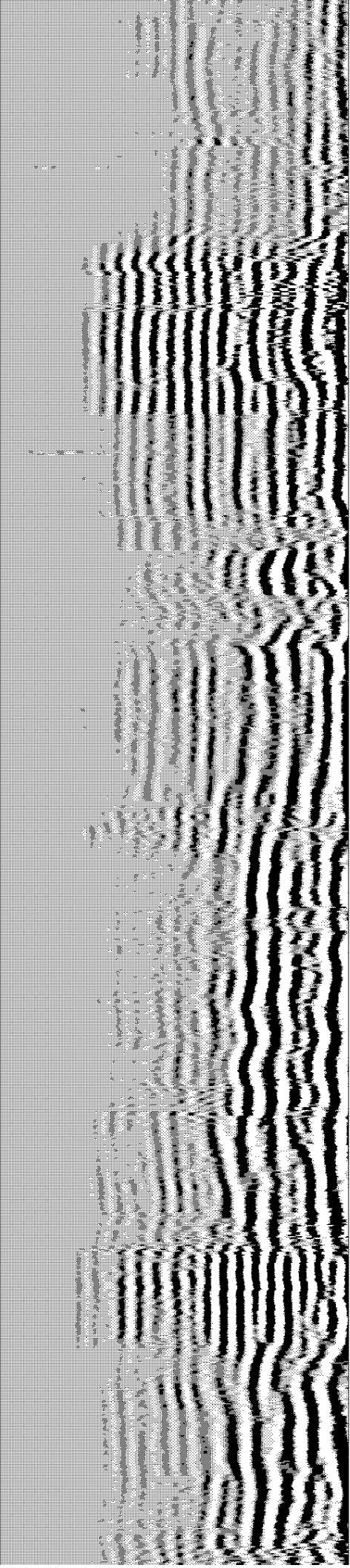
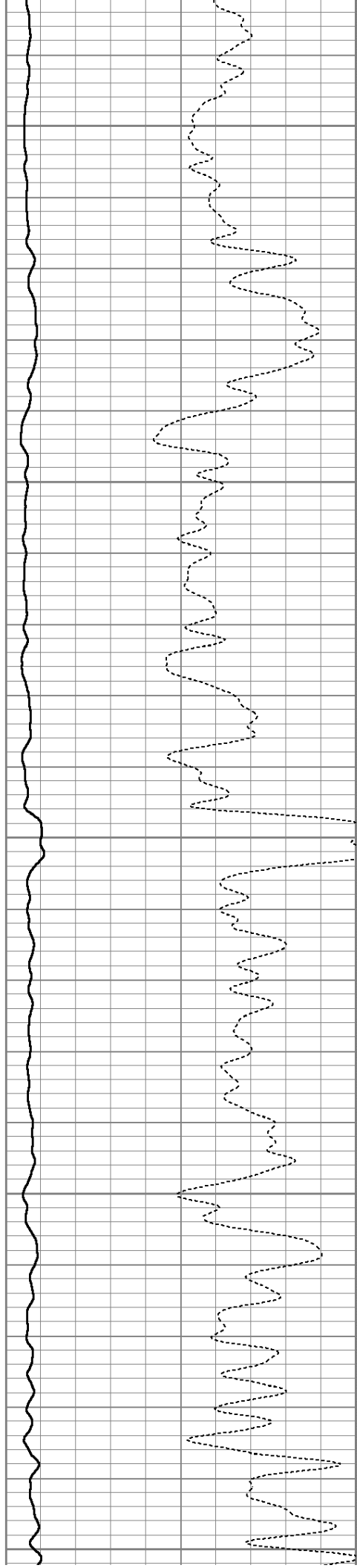
6350

6400

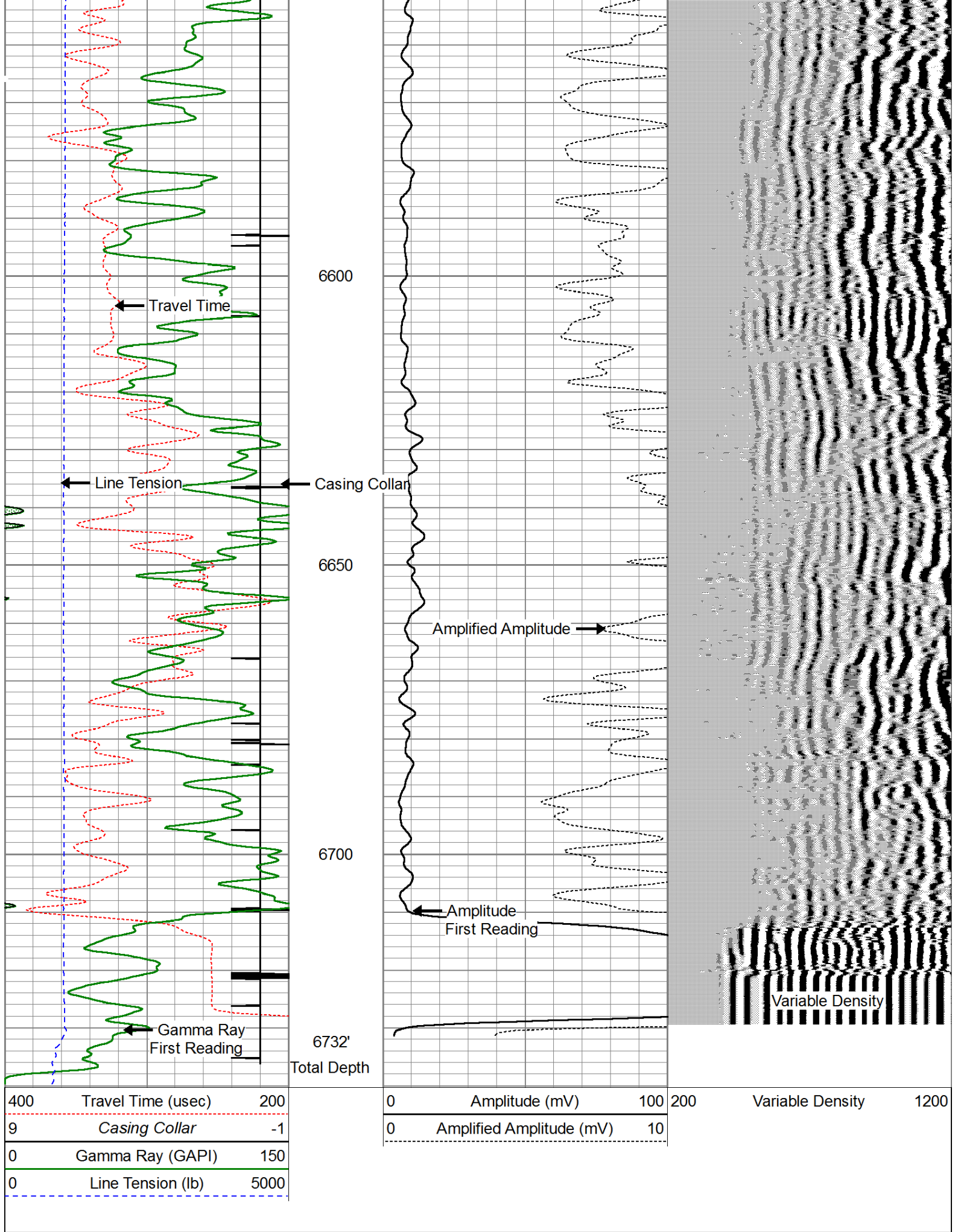
6450

6500

6550









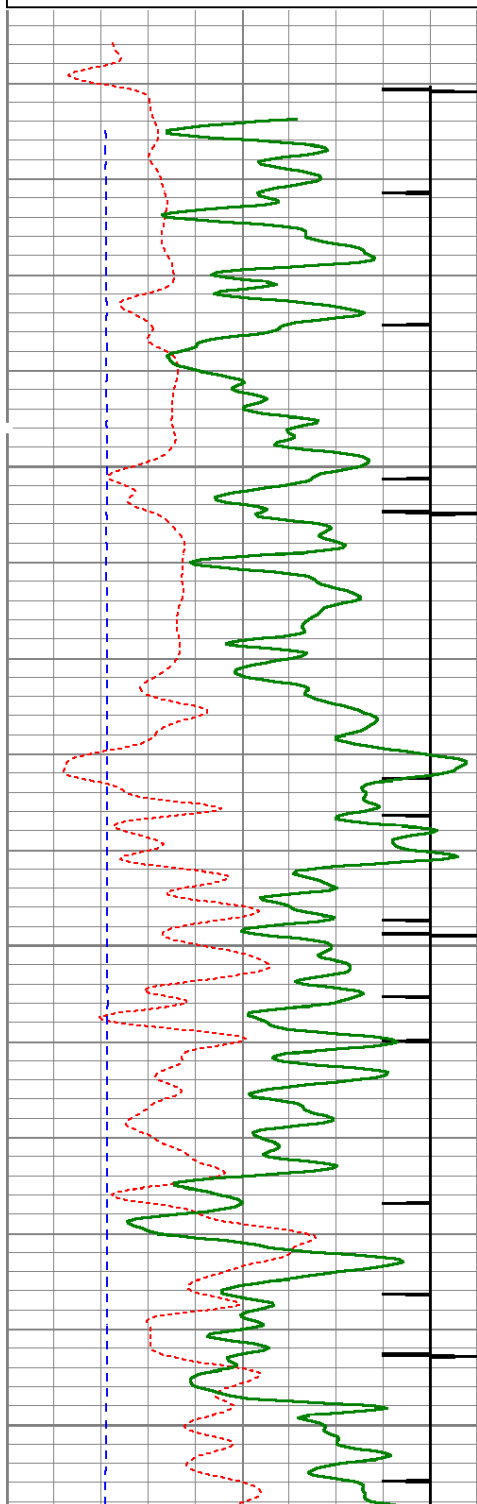
# Repeat Section (0 PSI)

Database File: bonanza creek- antelope t44-941-18hc\_cbl.db  
 Dataset Pathname: pass2  
 Presentation Format: cblprobe  
 Dataset Creation: Mon Mar 24 10:17:34 2014 by Log SCH 120126  
 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

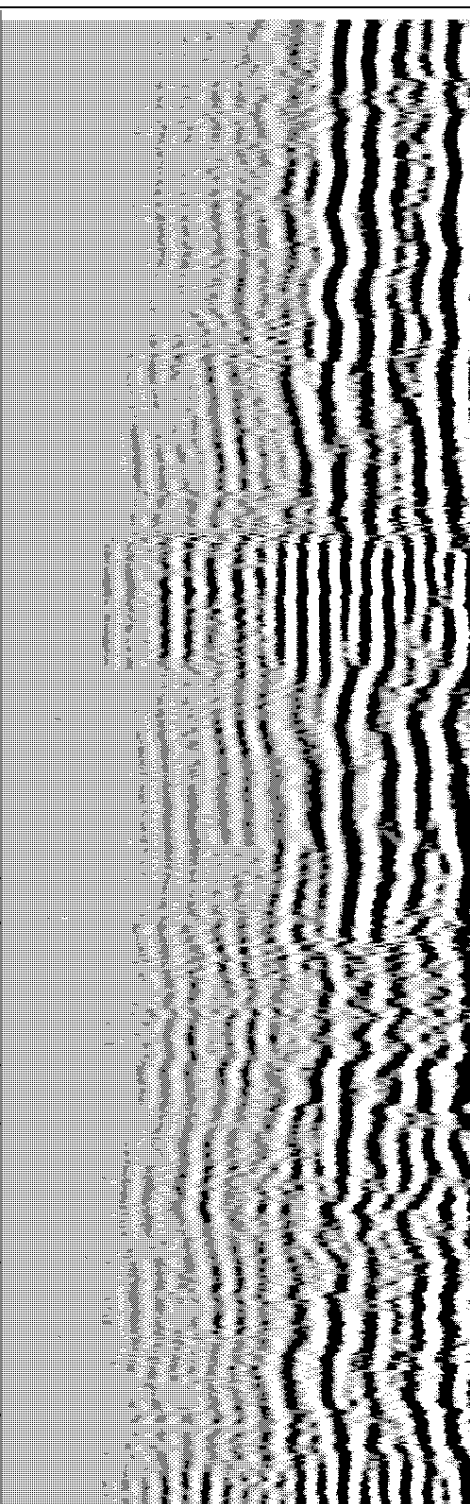
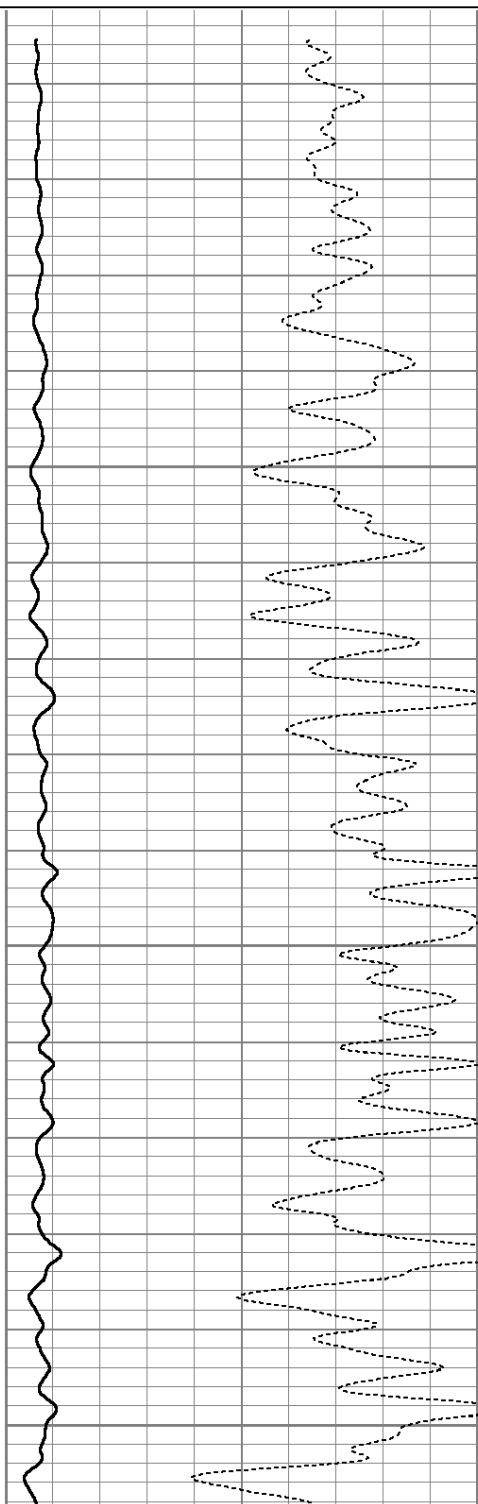
200 Variable Density 1200

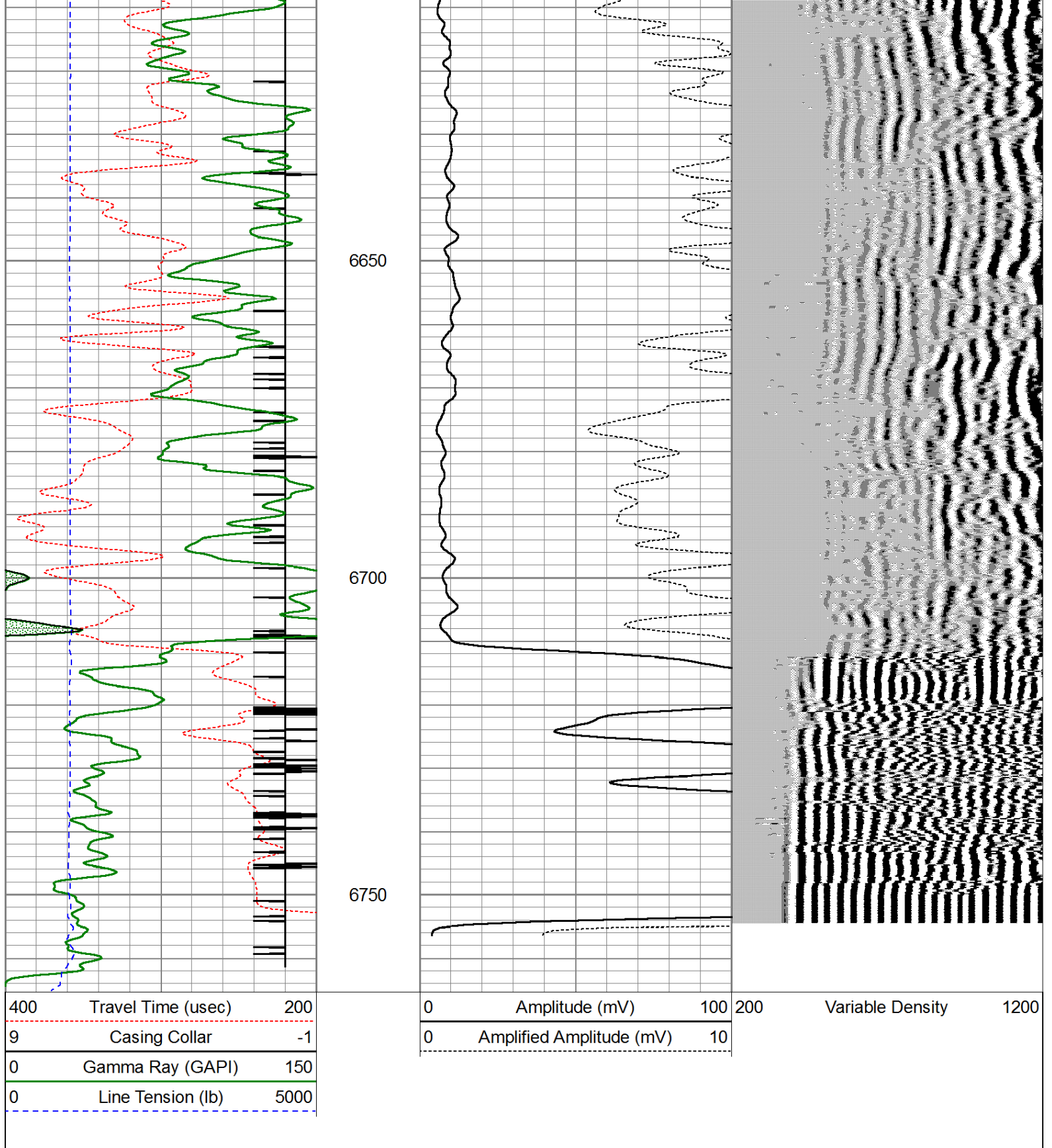


6500

6550

6600





#### Calibration Report

Database File: bonanza creek- antelope t44-941-18hc\_cbl.db  
Dataset Pathname: pass3  
Dataset Creation: Mon Mar 24 10:24:57 2014 by Log SCH 120126

#### Gamma Ray Calibration Report

Serial Number: 101135-Dig  
Tool Model: Probe275  
Performed: Sat Mar 22 11:25:00 2014



Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8500	GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number:	101254	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	4199.108	ft

Master Calibration, performed Sat Mar 22 15:06:33 2014:


	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.046	0.616	1.000	62.165	112.870	3.946
CAL	0.007	0.864				
5'	0.007	0.568	1.000	62.165	109.027	0.196
SUM						
S1	0.002	0.662	0.000	100.000	151.505	-0.351
S2	0.010	0.587	0.000	100.000	173.434	-1.766
S3	0.007	0.523	0.000	100.000	193.770	-1.386
S4	0.008	0.502	0.000	100.000	202.402	-1.552
S5	0.007	0.553	0.000	100.000	183.422	-1.352
S6	0.007	0.635	0.000	100.000	159.241	-1.174
S7	0.007	0.698	0.000	100.000	144.720	-1.051
S8	0.007	0.698	0.000	100.000	144.825	-1.052

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	0.007	0.864	1.000	0.000

Air Zero Calibration, performed Mon Oct 10 09:41:05 2005:

	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

