



CEMENT BOND LOG

Mesa Wireline

Company	ENCANA OIL & GAS (USA)		
Well	COSTIGAN 6-8-20		
Field	WATTENBERG		
County	WELD		
State	COLORADO		
Company	ENCANA OIL & GAS (USA)		
Well	COSTIGAN 6-8-20		
Field	WATTENBERG		
County	WELD		
State	COLORADO		
Location:	APL #: 05-123-30124-0000		Other Services NONE
	SHL: 945' FSL & 1056' FEL BHL: 50' FSL & 1300' FEL		
	SEC. 20 TWP. 1N RGE. 68W		
Permanent Datum	GROUND LEVEL		Elevation
Log Measured From	KELLY BUSHING = 13'		K.B. 5226'
Drilling Measured From	KELLY BUSHING		D.F. 5227'
			G.L. 5213'

Date	6 JULY 2011						
Run Number	ONE						
Depth Driller	8674'						
Depth Logger	8632'						
Bottom Logged Interval	8632'						
Top Log Interval	4000'						
Open Hole Size	7.875"						
Type Fluid	WATER						
Density / Viscosity	~8.34 LBS/GAL						
Max. Recorded Temp.	270 DegF						
Estimated Cement Top	4800'						
Time Well Ready	N/A						
Time Logger on Bottom	N/A						
Equipment Number	10801W / PB2						
Location	AULT, CO						
Recorded By	B. MAYNARICH						
Witnessed By	TOM MAJORS						
Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	0	1216'	N/A			
TWO	7.875"	0	8674'				
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	8.625"	24#	0	1216'			
Prot. String							
Production String	4.5"	11.6#	SURFACE	TD			
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

LOGS CORRELATED TO PSI HIGH RESOLUTION INDUCTION LOG DATED 14 JUNE 2011
SHORT JOINT @ 7591' - 7614'

WE APPRECIATE YOUR BUSINESS, MESA WIRELINE LLC, GRAND JUNCTION CO. (970) 257-0458



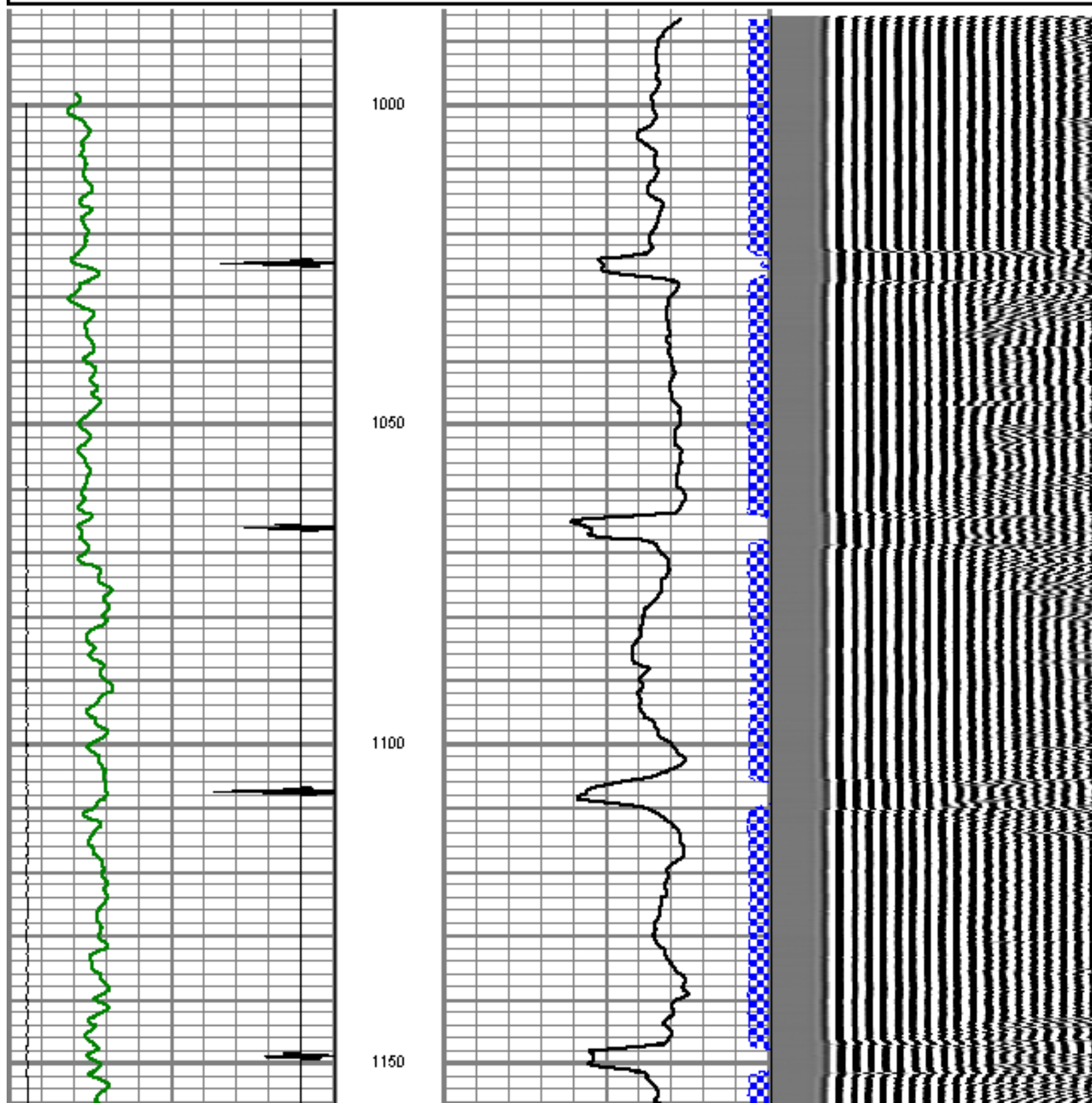
SURFACE CASING PASS

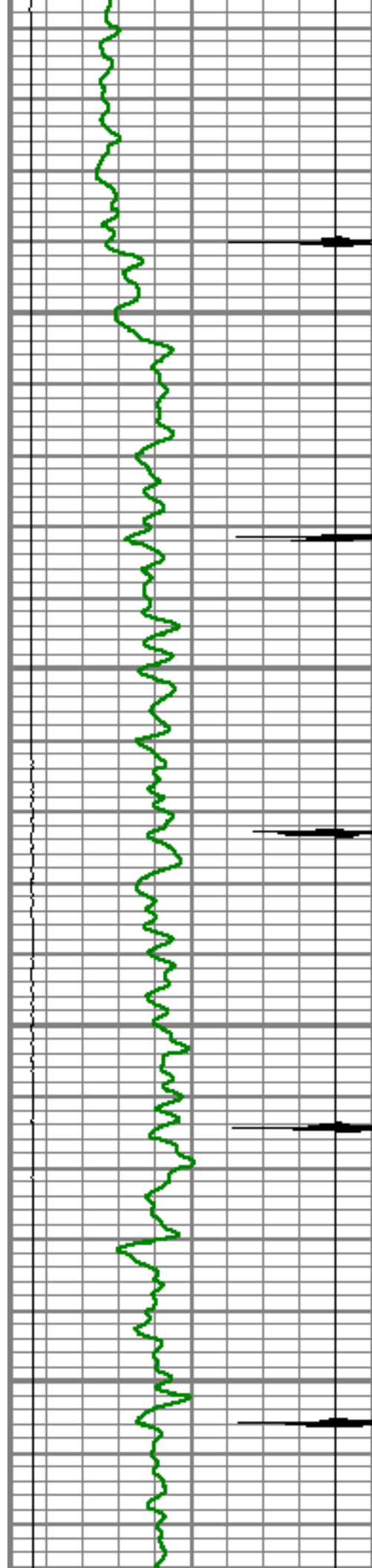
Database File: 6-8.db
Dataset Pathname: pass19
Presentation Format: dcbl_prb
Dataset Creation: Wed Jul 06 16:42:29 2011 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	300
0	LTEN (lb)	5000
9	CCL	-1

0	Amplified Amplitude (mV)	20
0	Amplitude (mV)	100
0	TT3 (usec)	280

200 Variable Density 1200



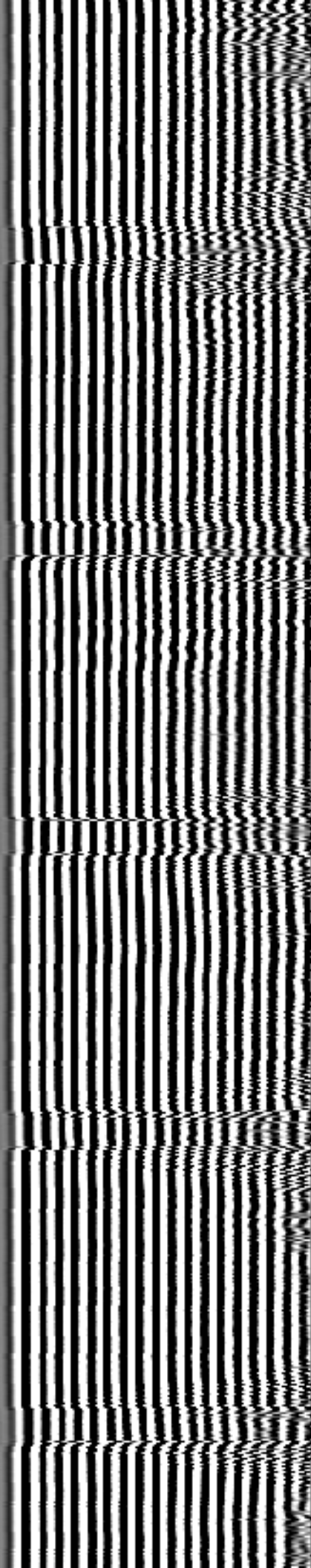
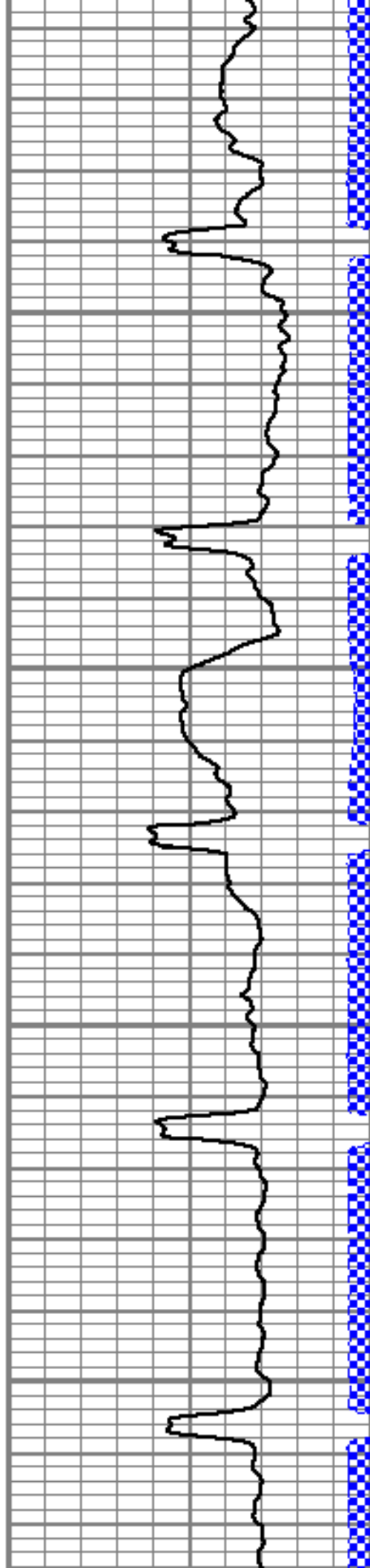


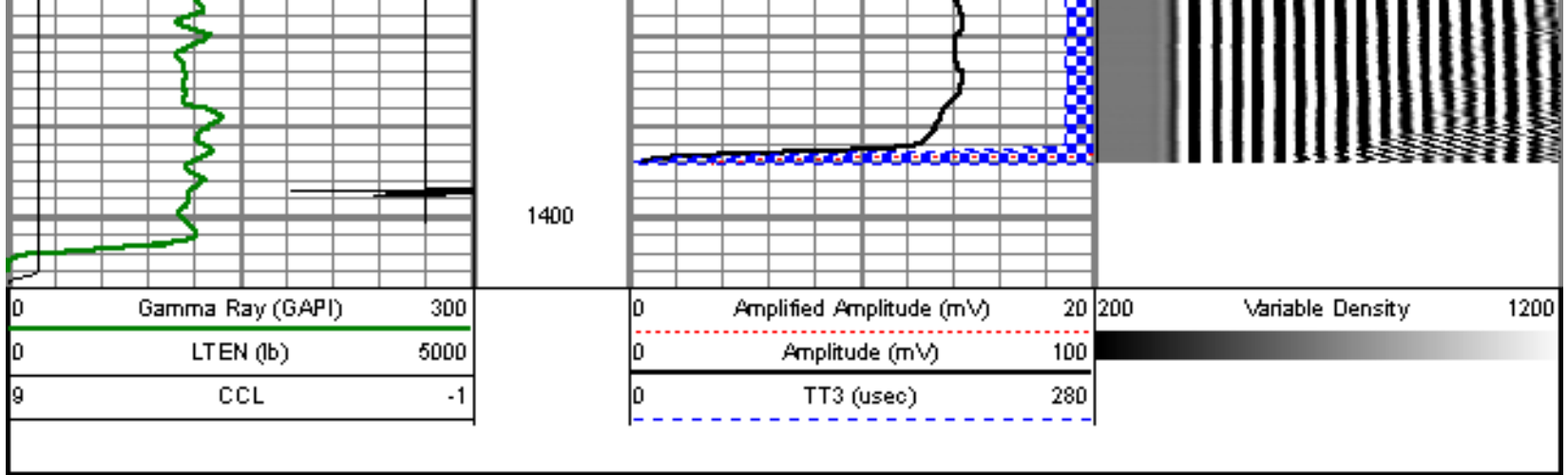
1200

1250

1300

1350

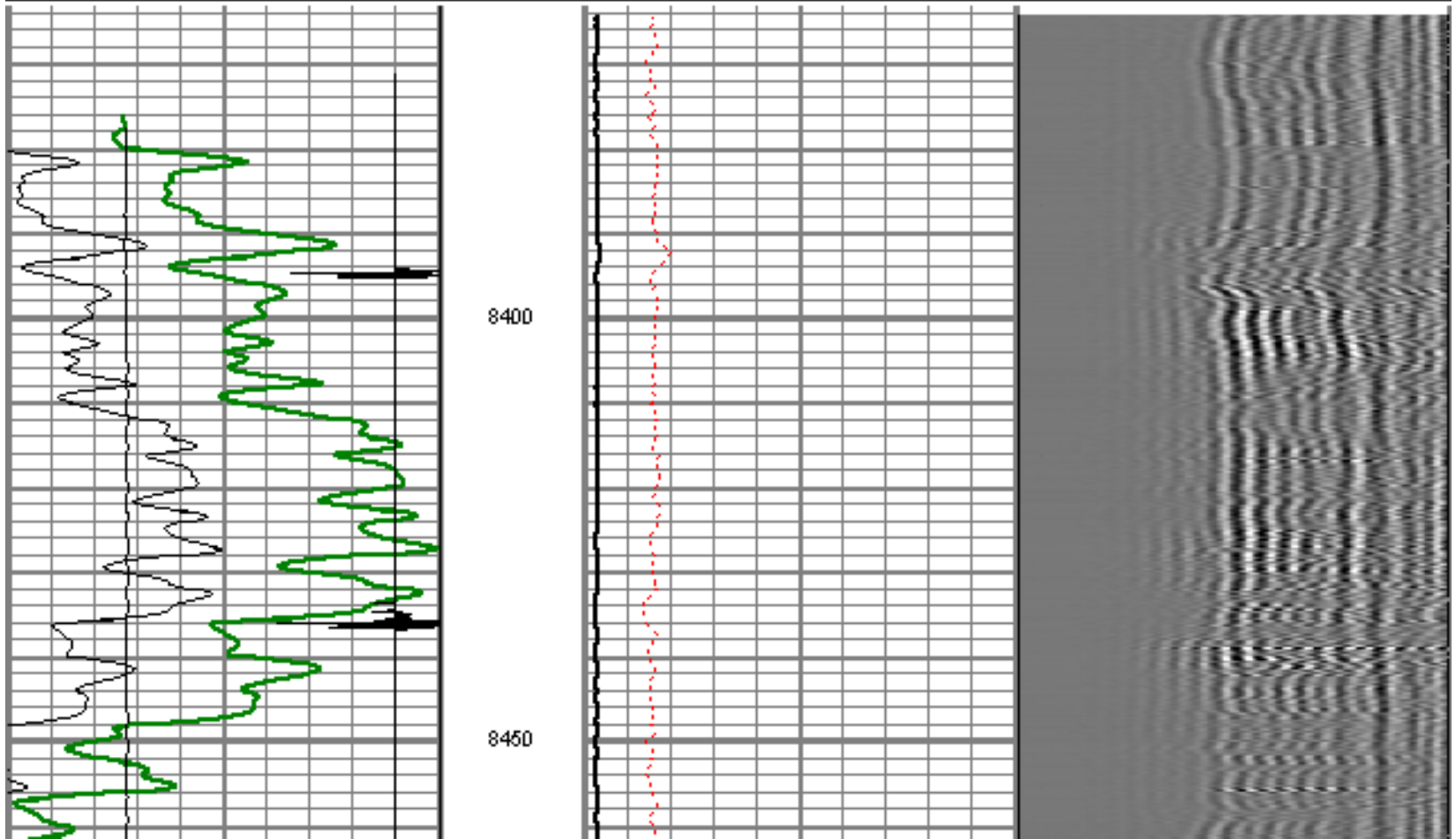
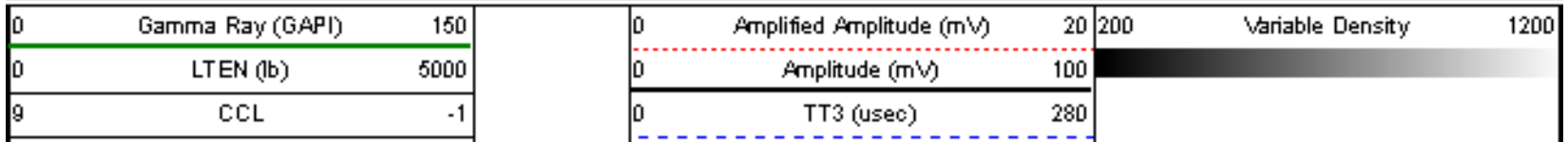


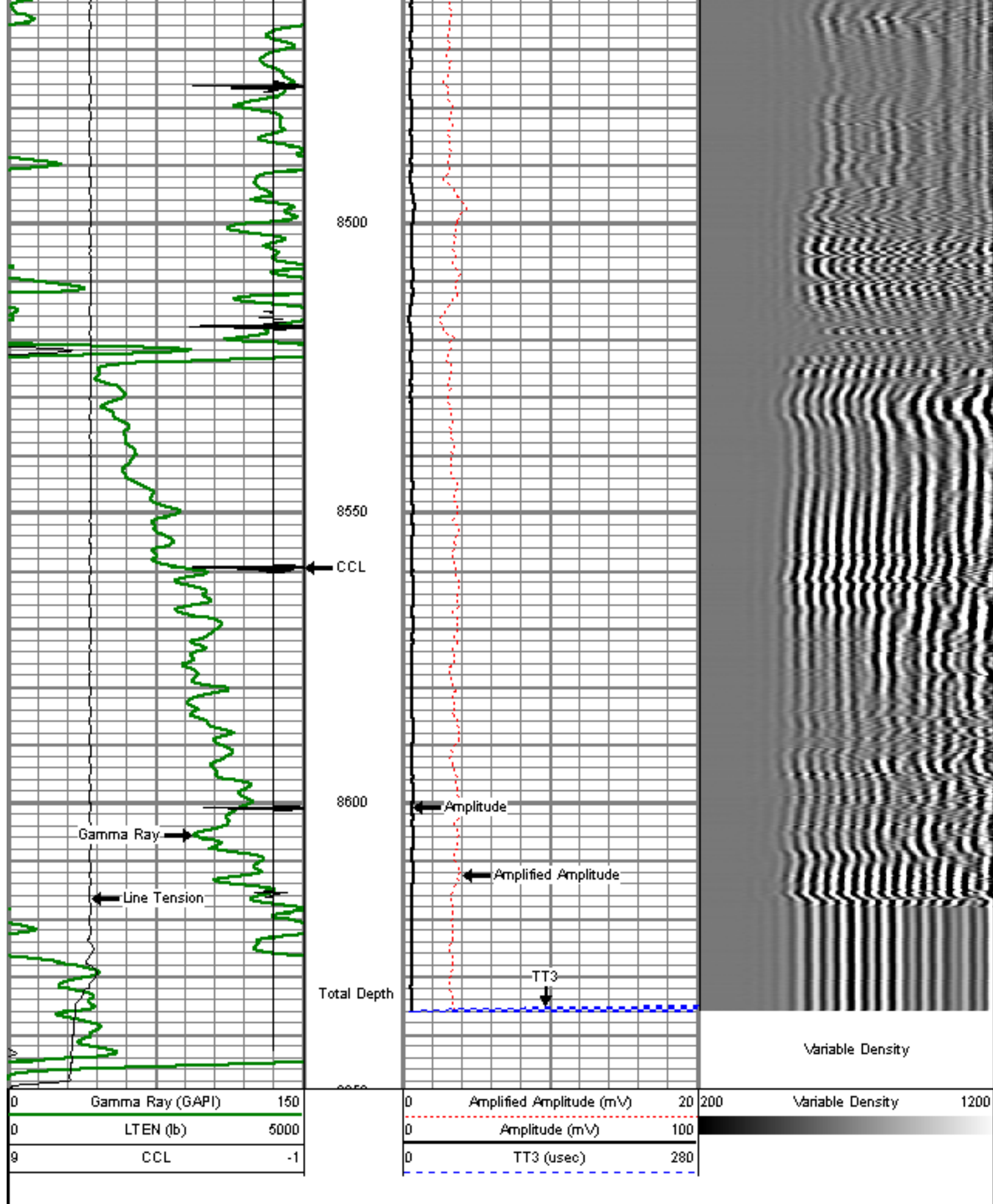


REPEAT PASS

5" = 100'

Database File: 6-8.db
 Dataset Pathname: pass17
 Presentation Format: dcbl_prb
 Dataset Creation: Wed Jul 06 15:01:12 2011 by Log Std Casedhole 09061
 Charted by: Depth in Feet scaled 1:240



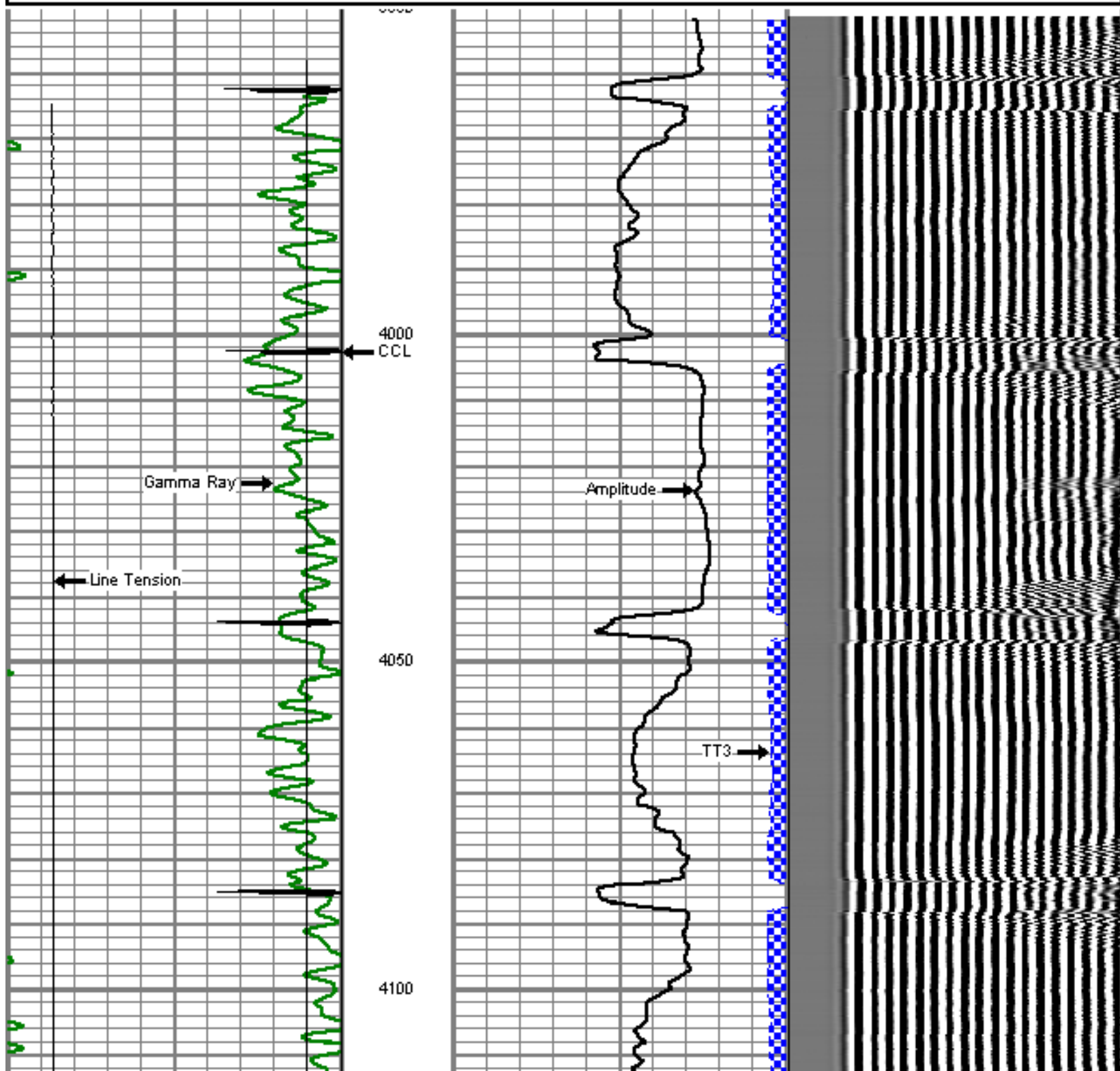


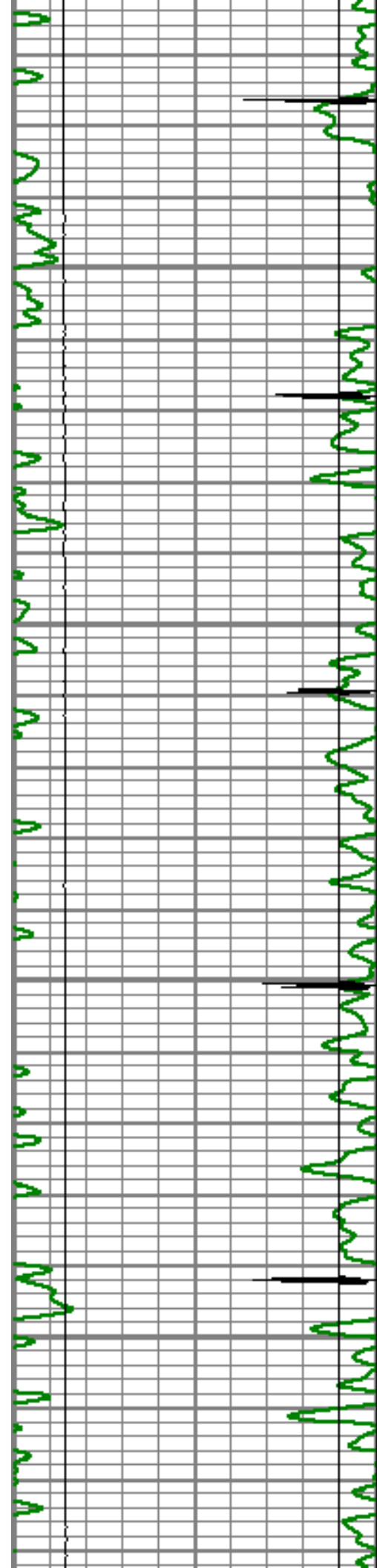
Database File: 6-8.db
 Dataset Pathname: pass18oh
 Presentation Format: dcbl_prb
 Dataset Creation: Wed Jul 06 17:01:27 2011
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
0	LTEN (lb)	5000
9	CCL	-1

0	Amplified Amplitude (mV)	20
0	Amplitude (mV)	100
0	TT3 (usec)	280

200	Variable Density	1200
-----	------------------	------



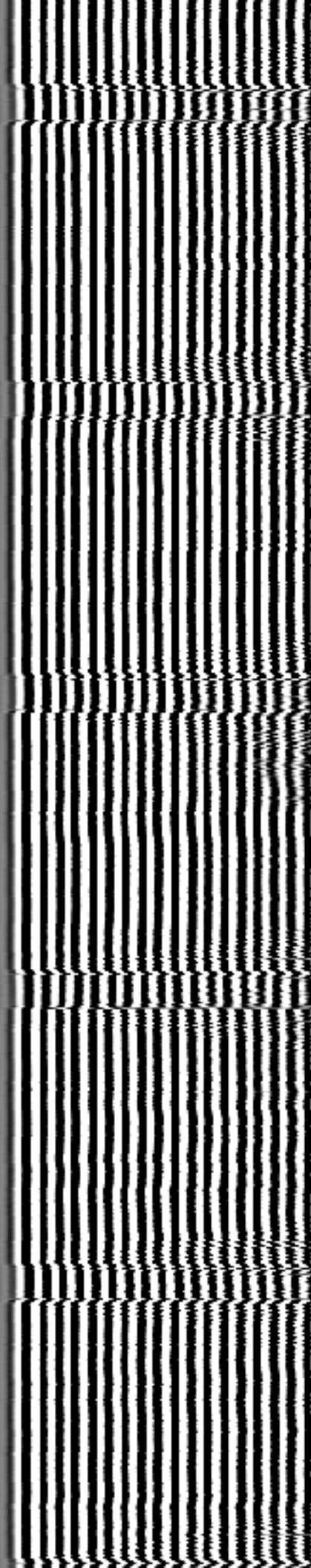
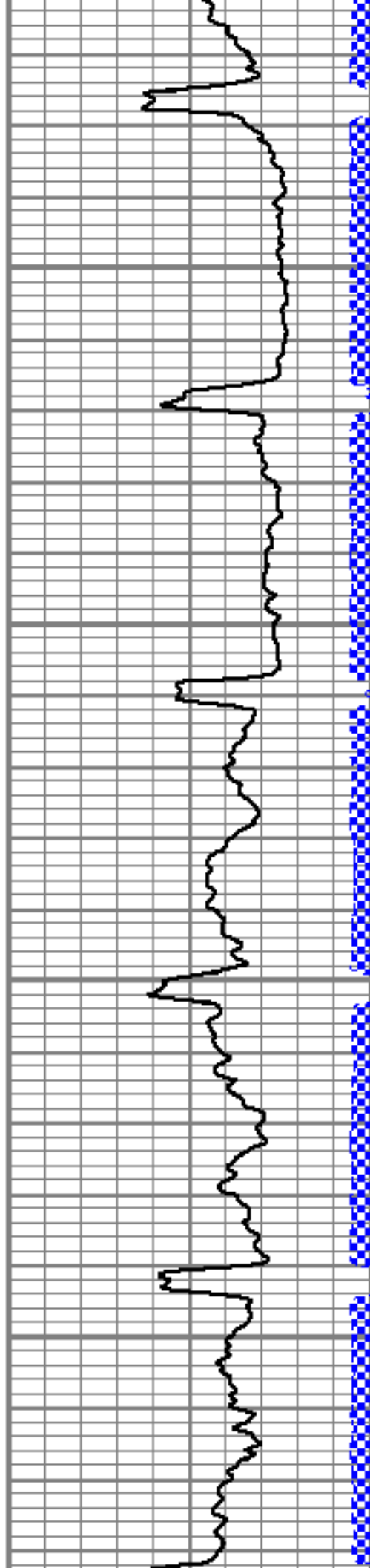


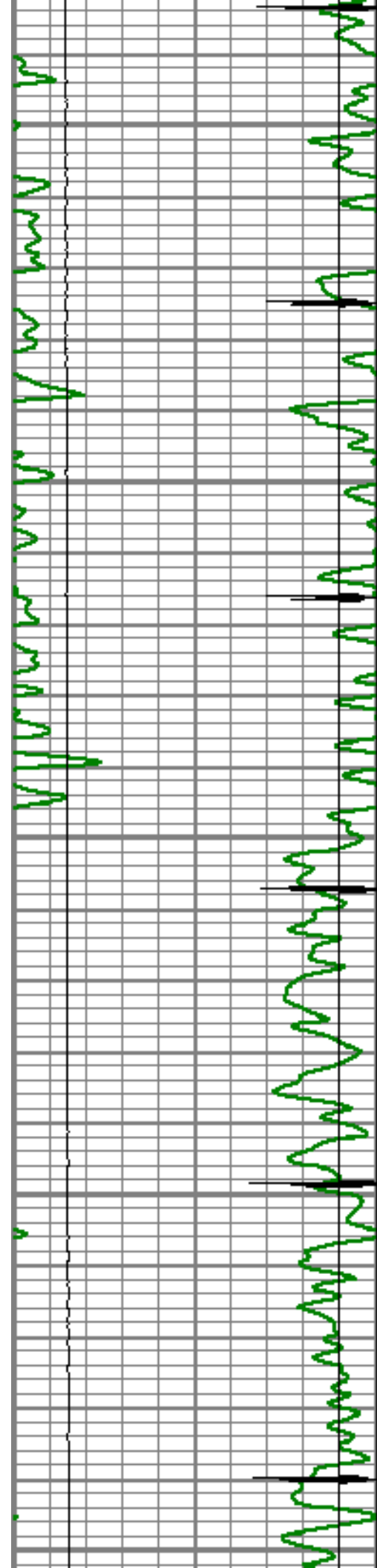
4150

4200

4250

4300





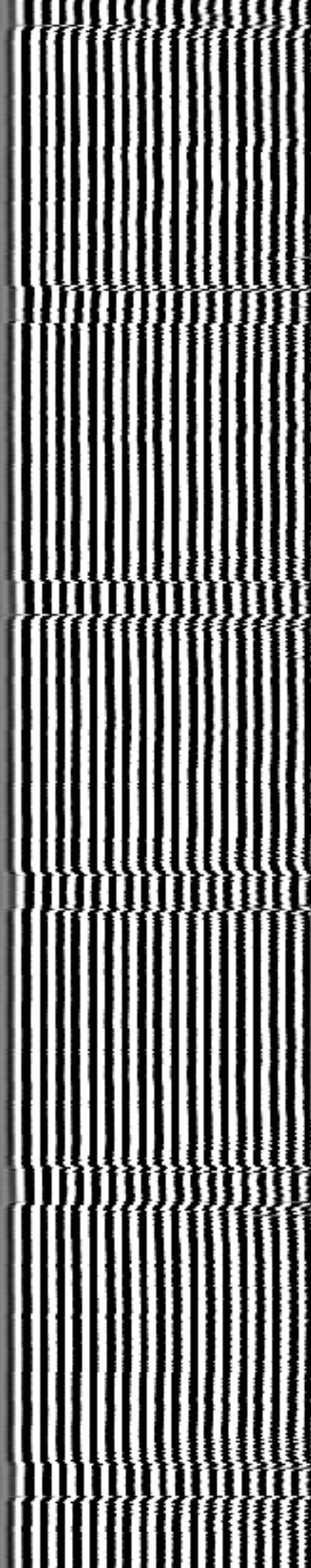
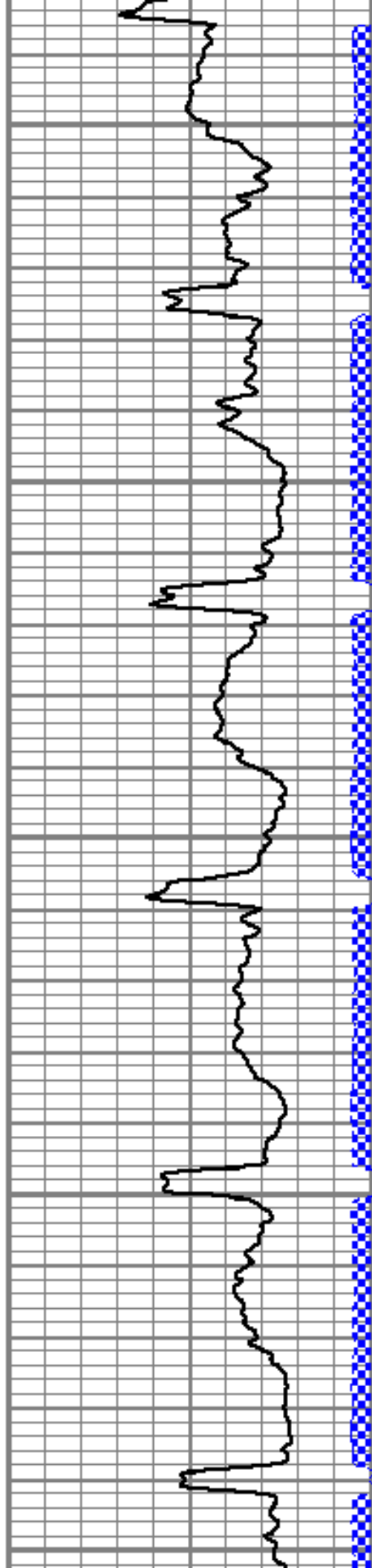
4350

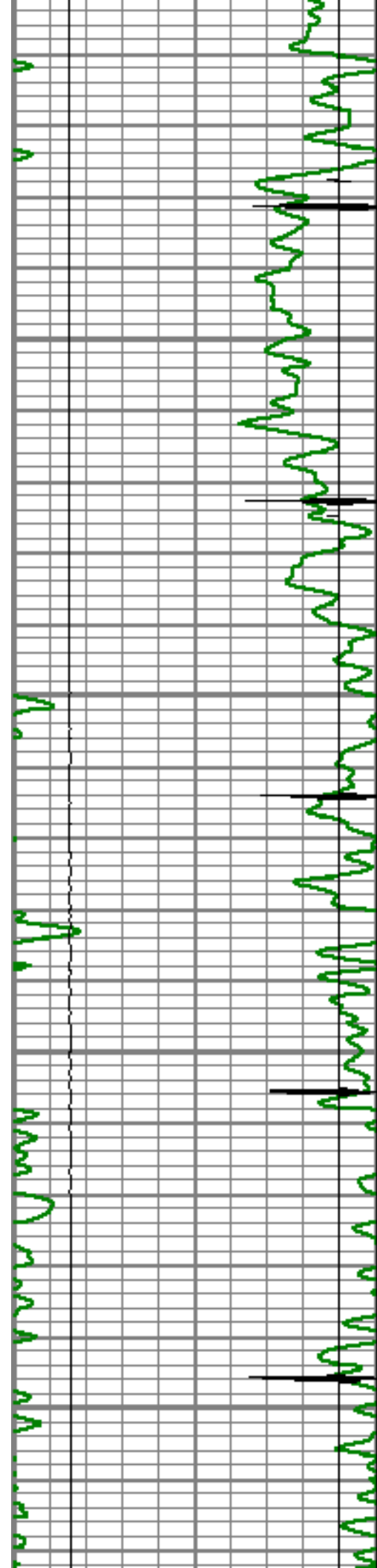
4400

4450

4500

4550



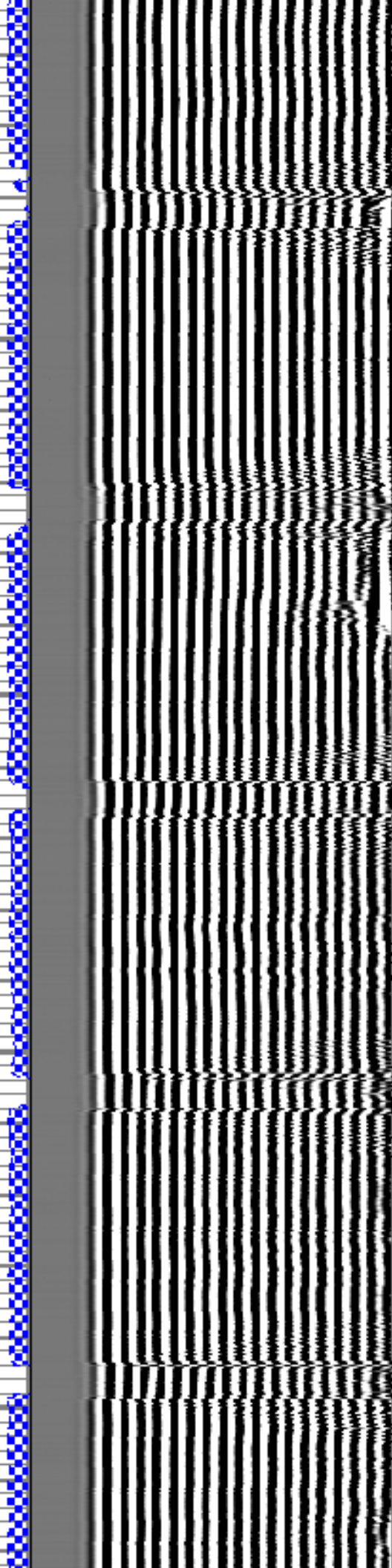
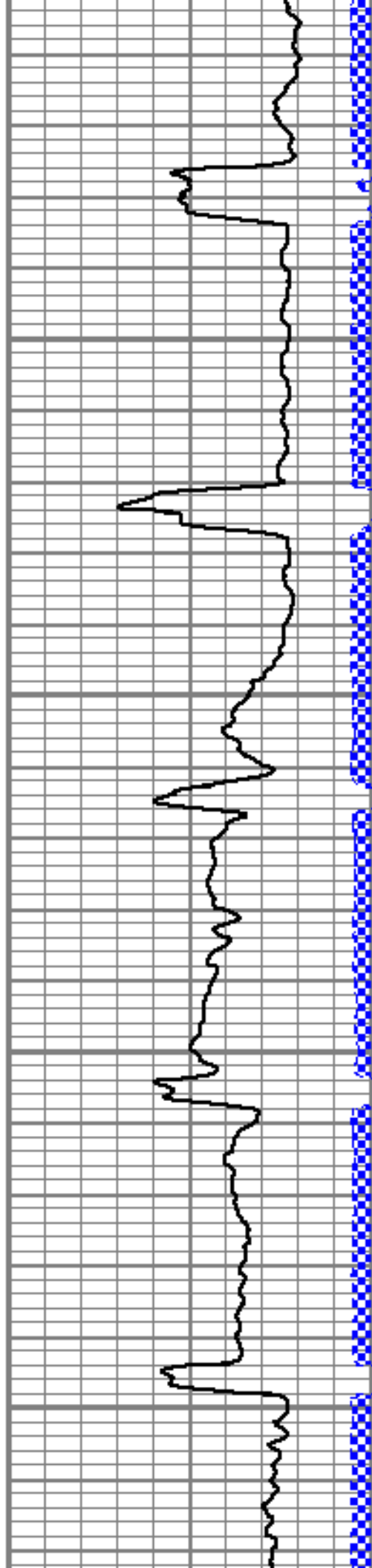


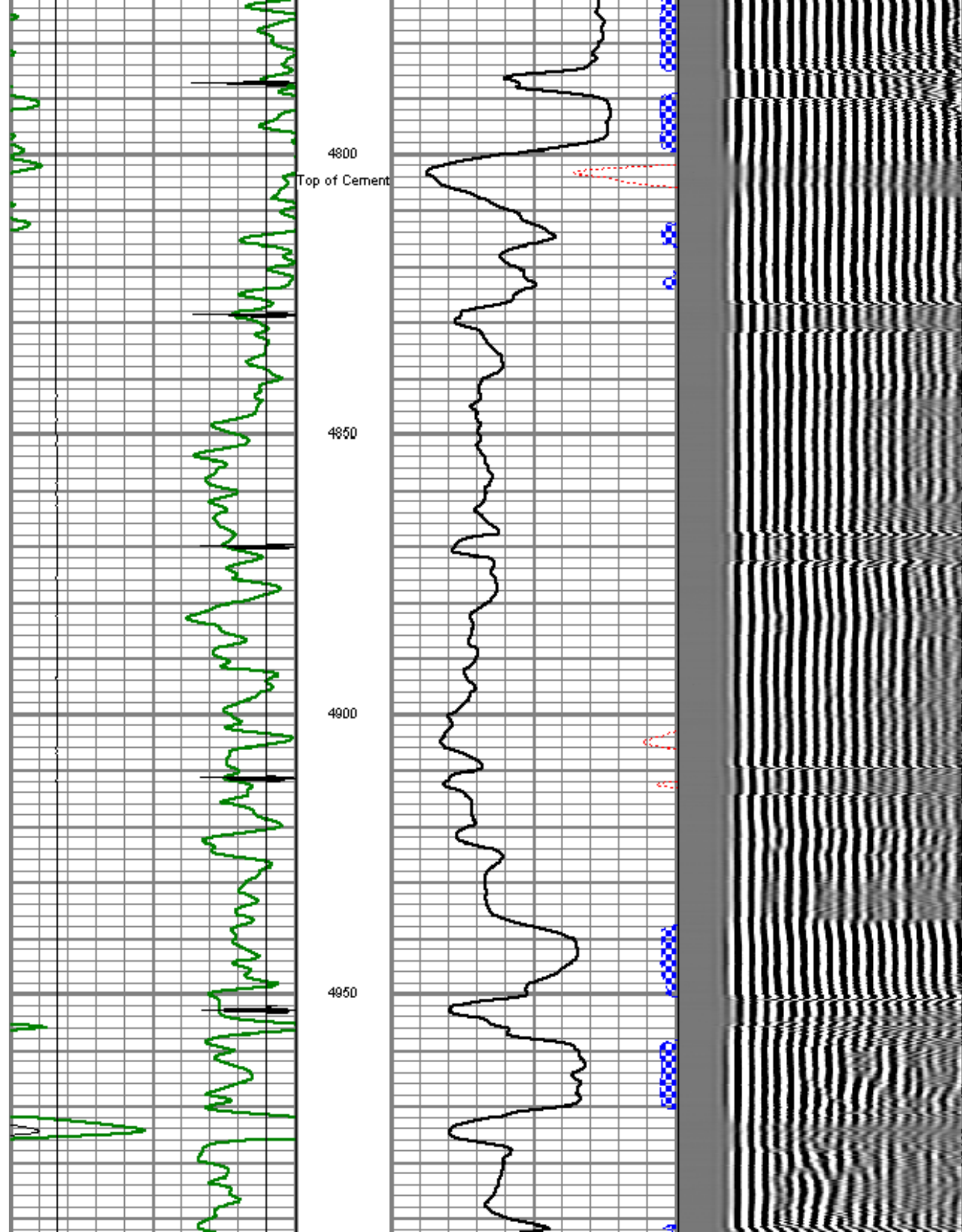
4600

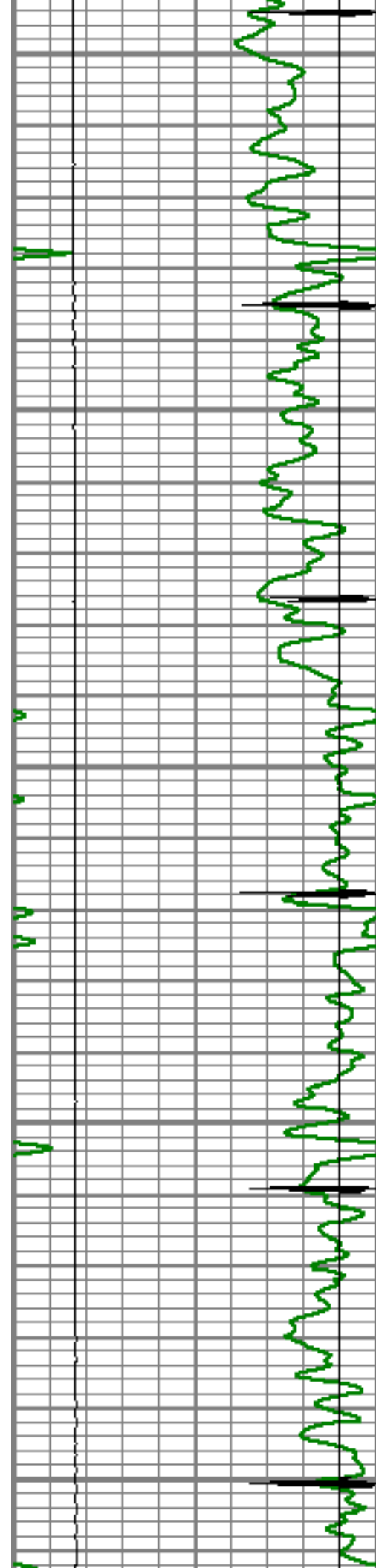
4650

4700

4750







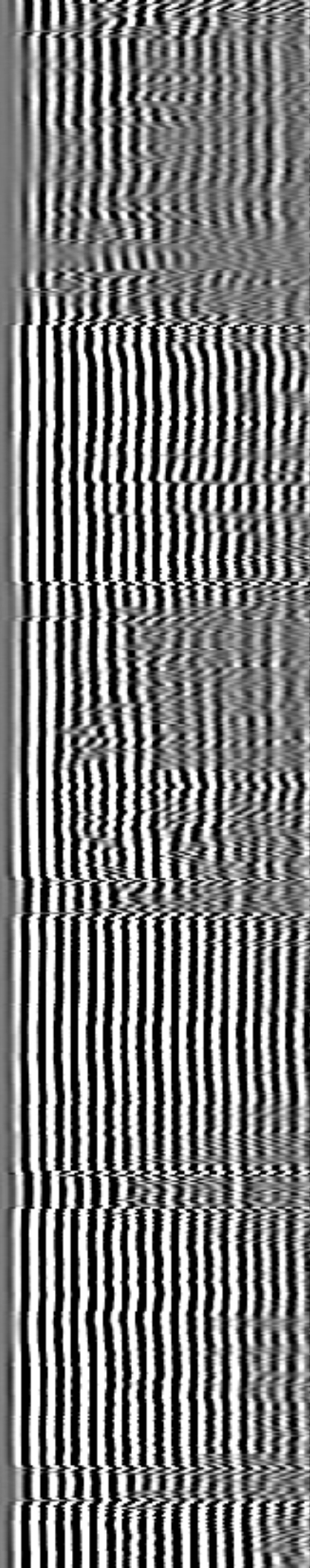
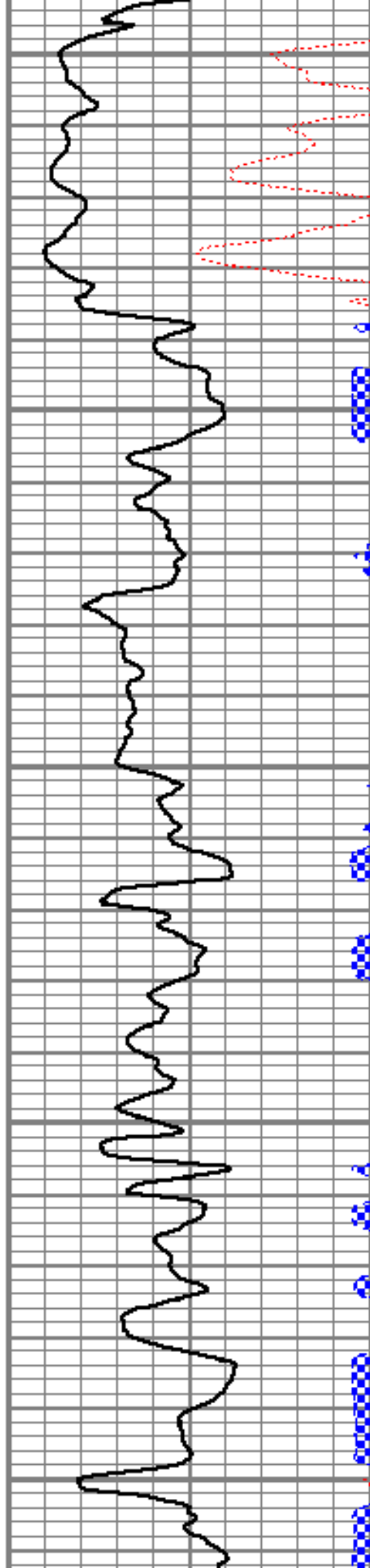
5000

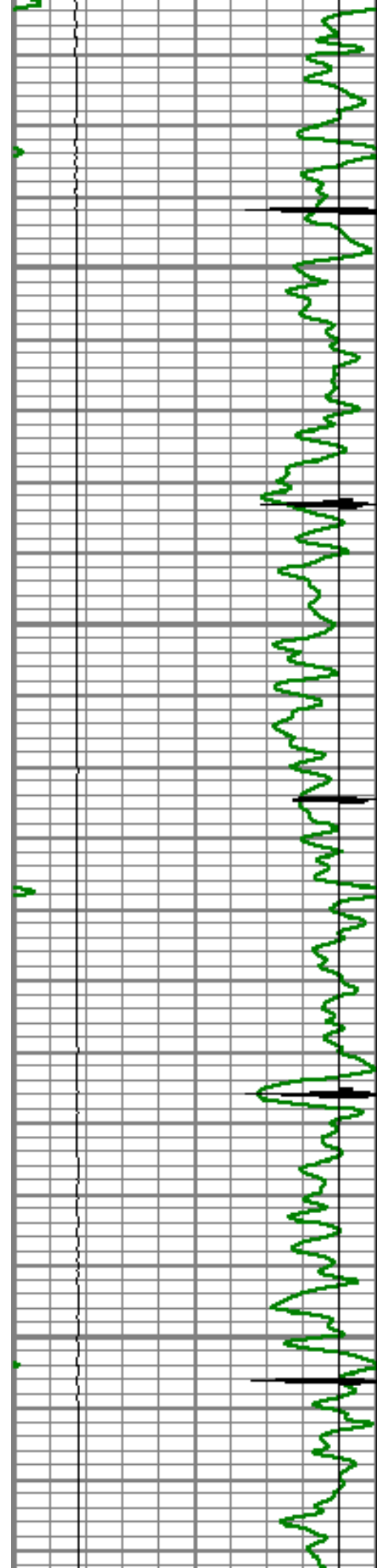
5050

5100

5150

5200



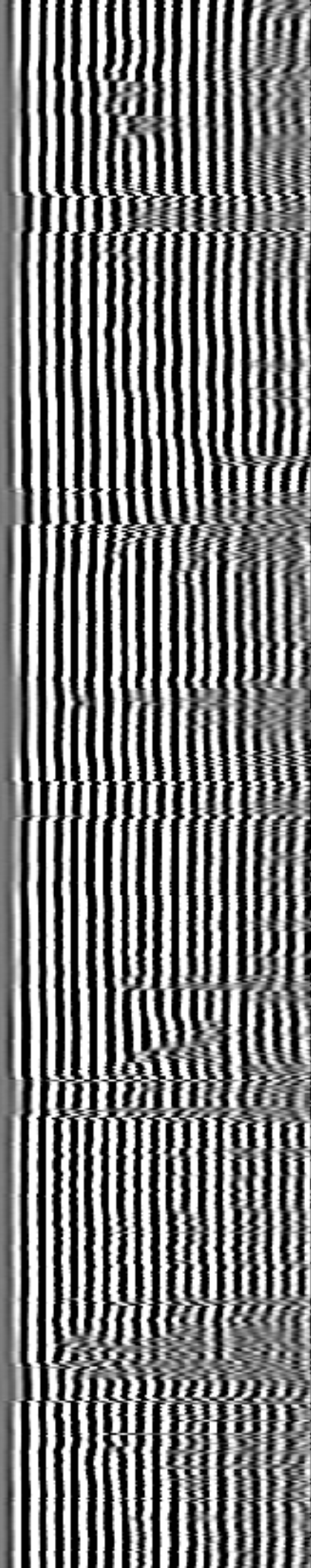
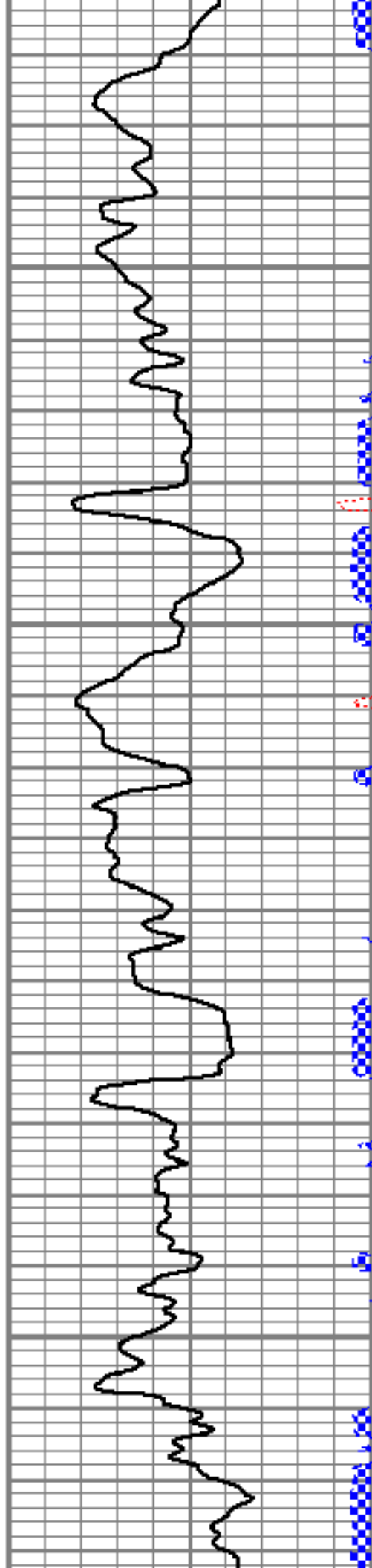


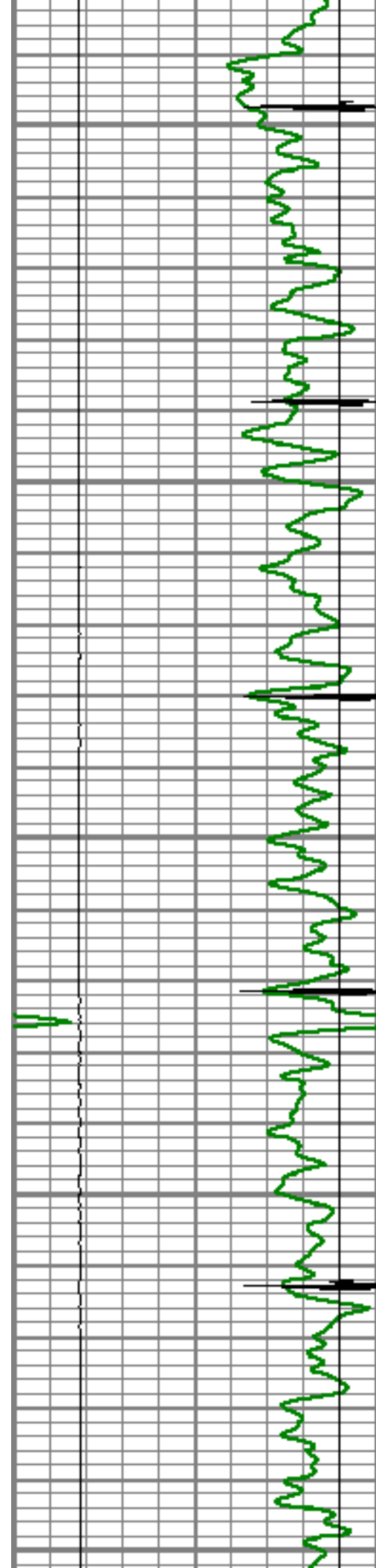
5250

5300

5350

5400





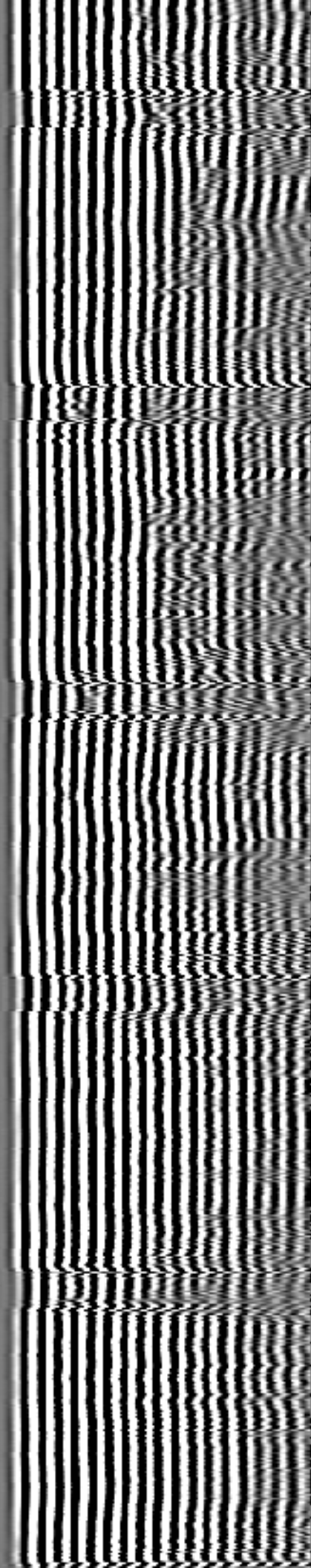
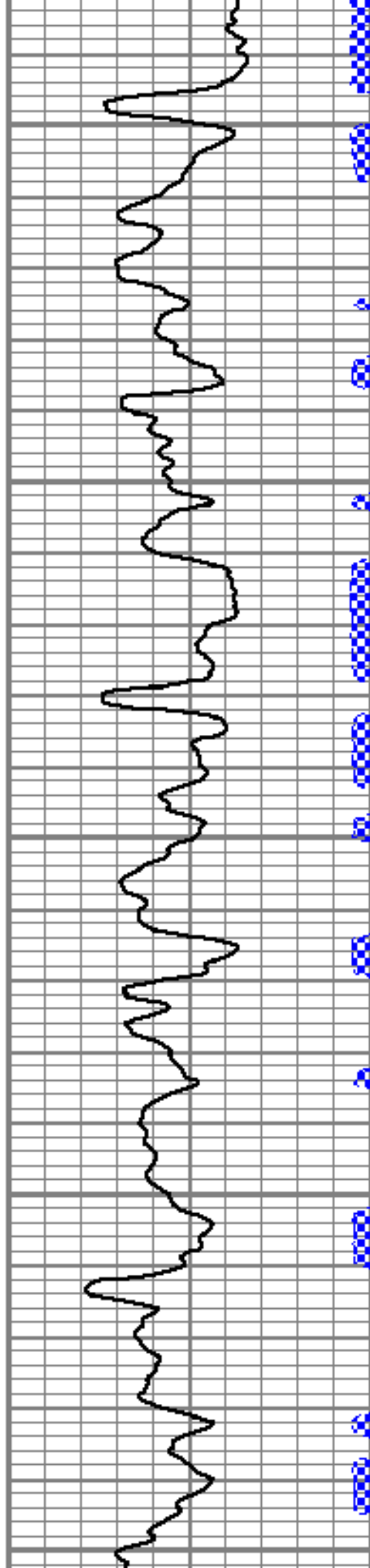
5450

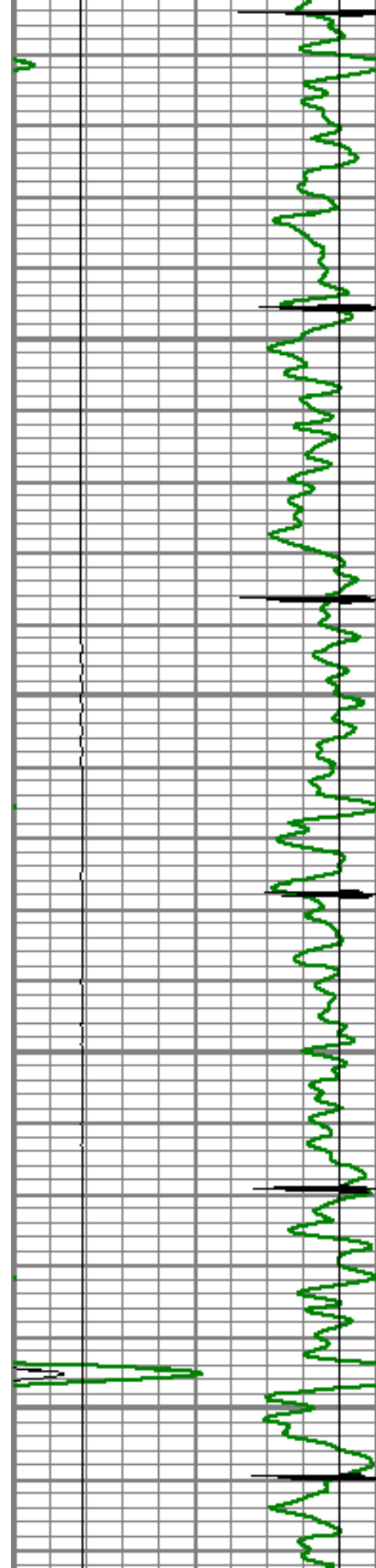
5500

5550

5600

5650



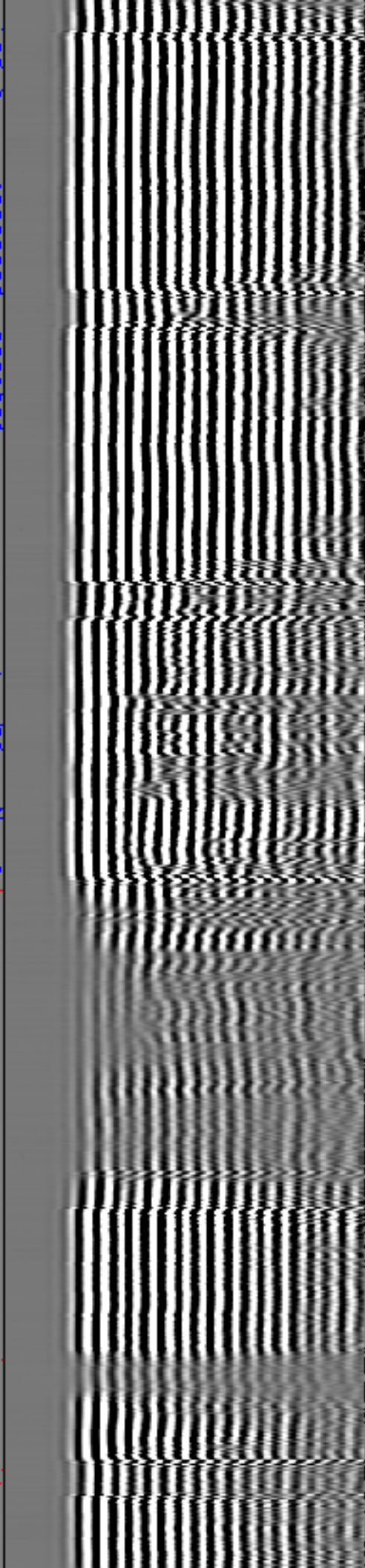
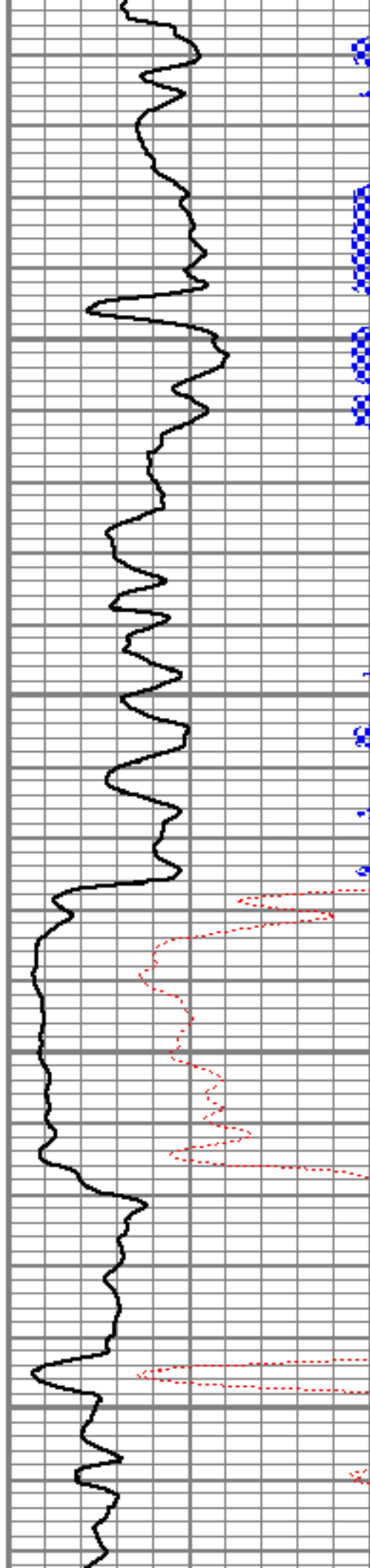


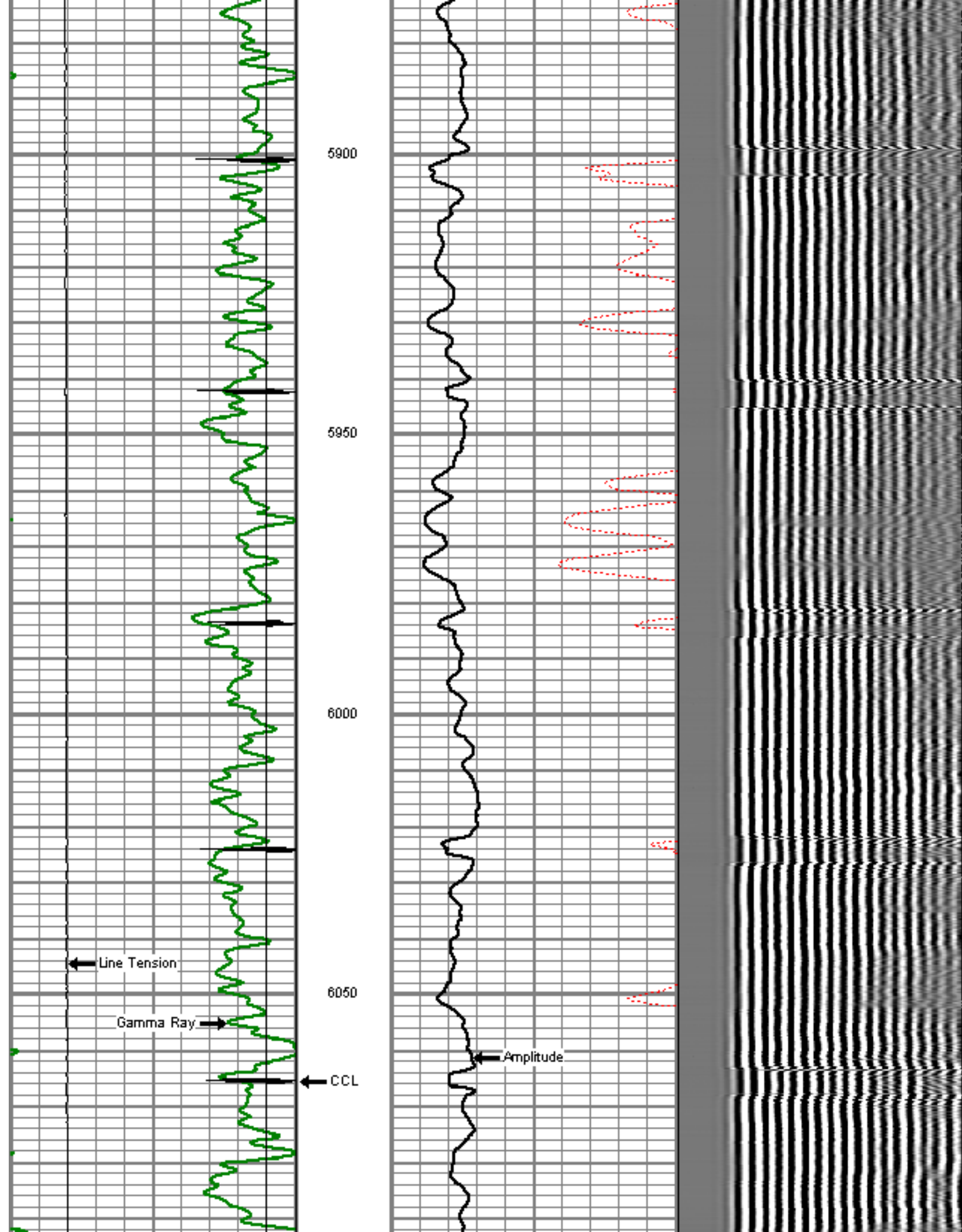
5700

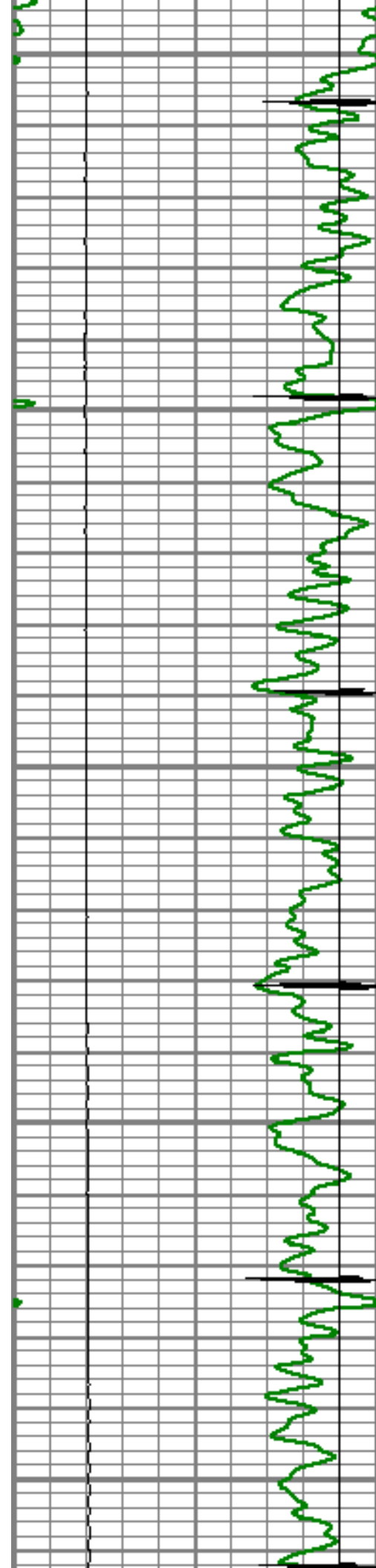
5750

5800

5850







6100

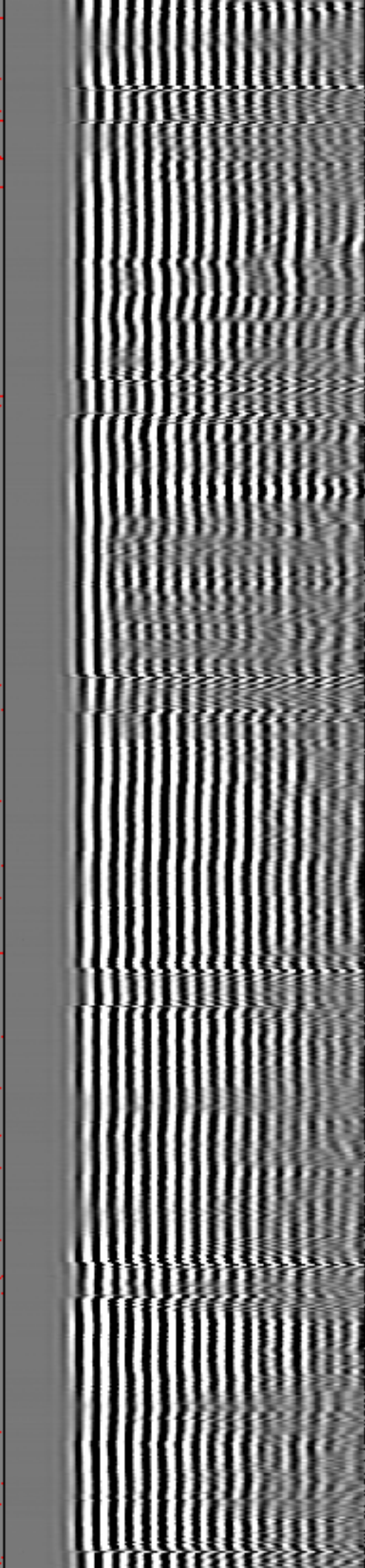
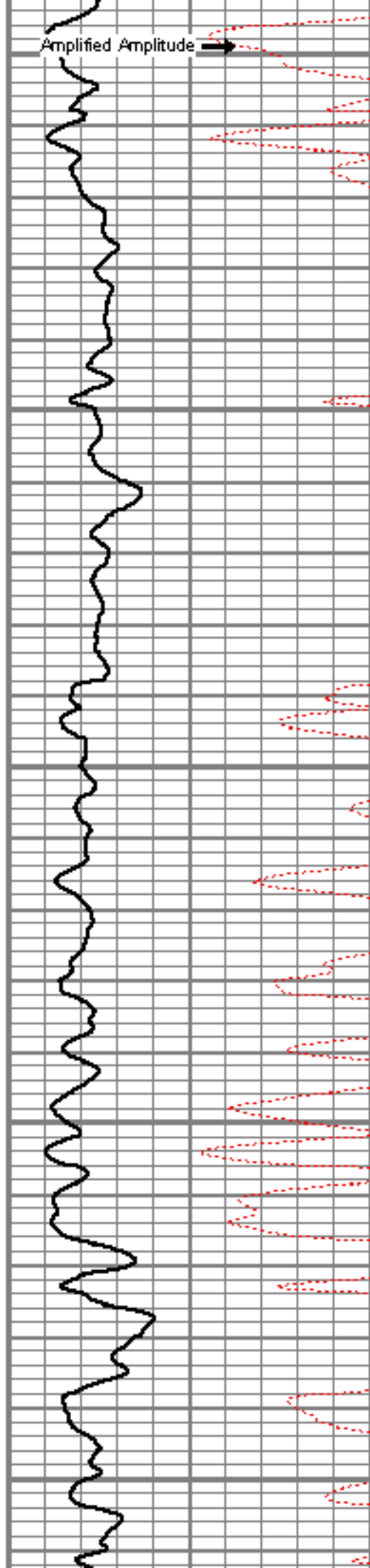
6150

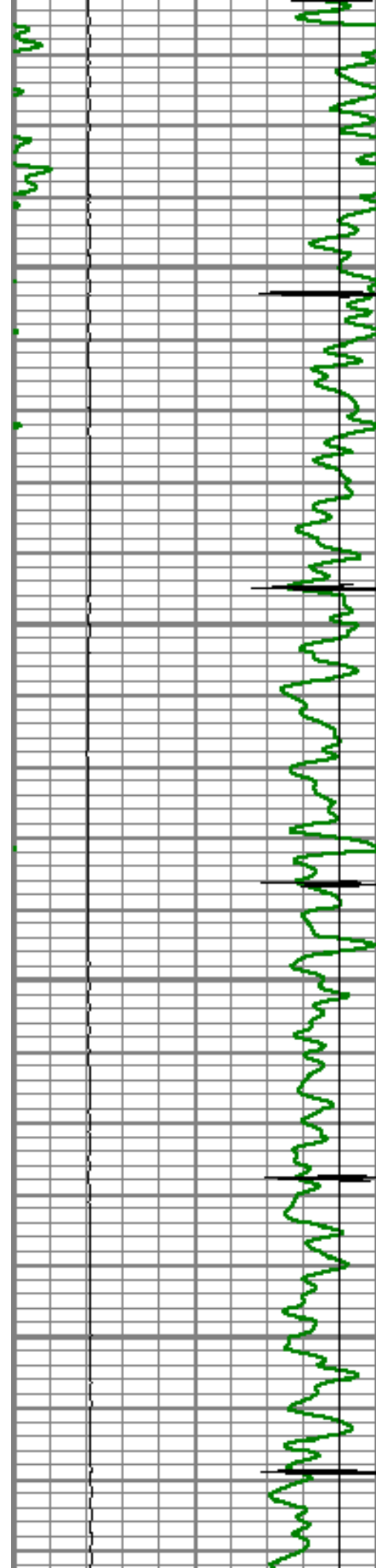
6200

6250

6300

Amplified Amplitude



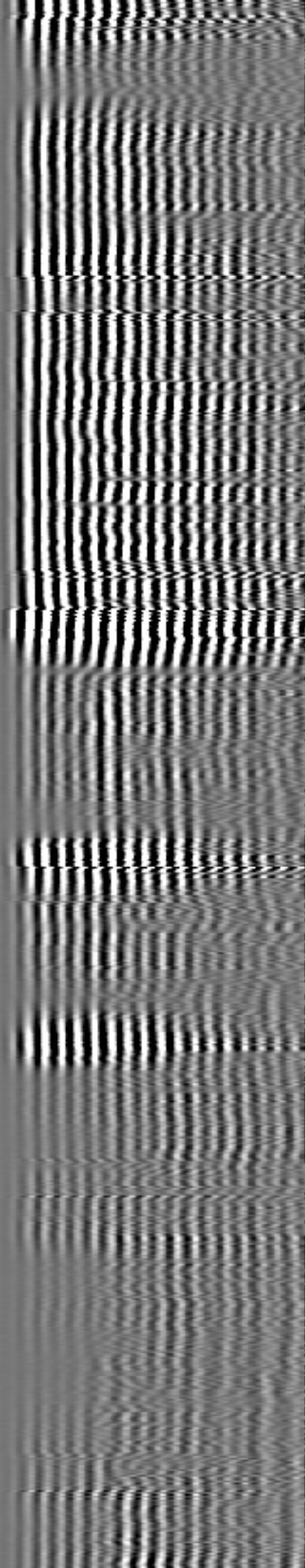
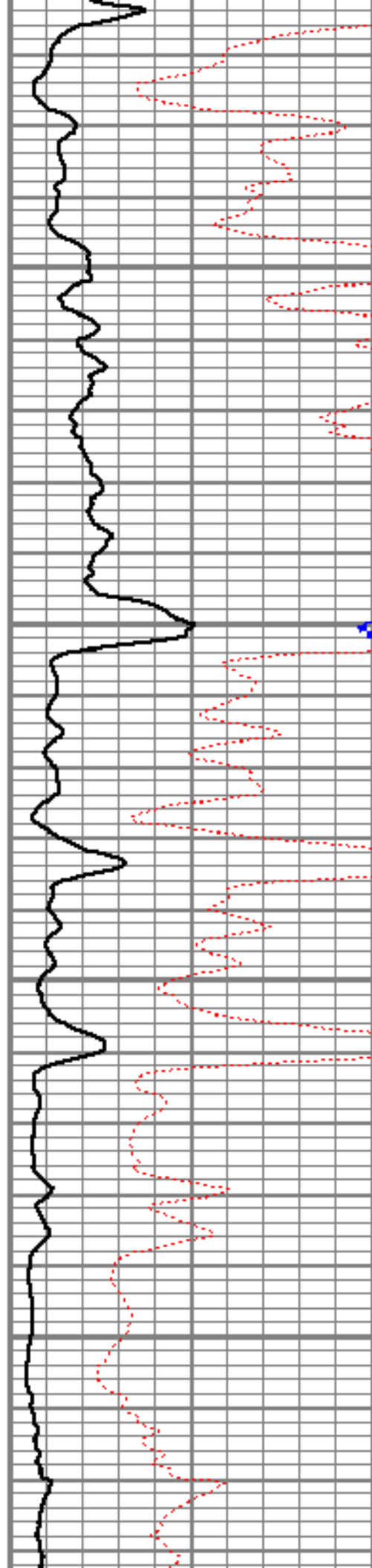


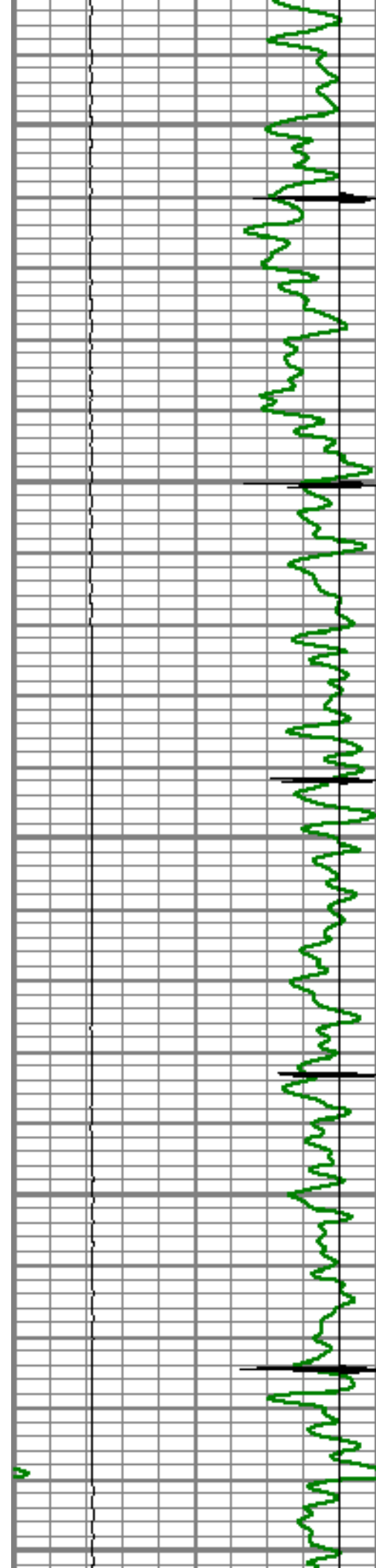
6350

6400

6450

6500





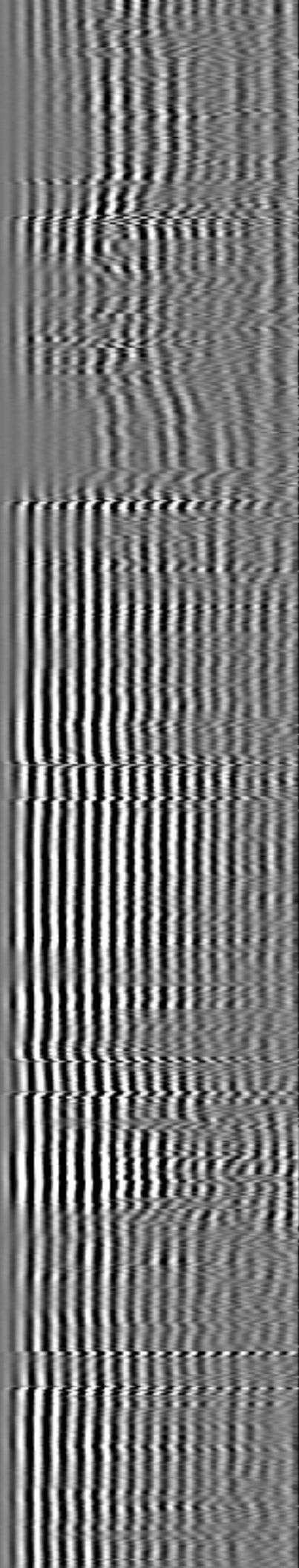
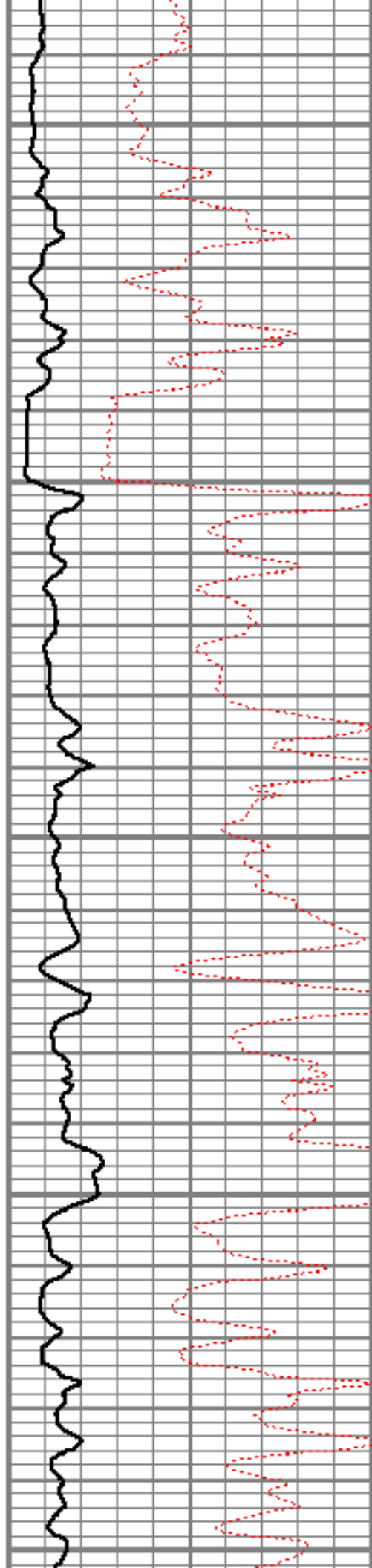
6550

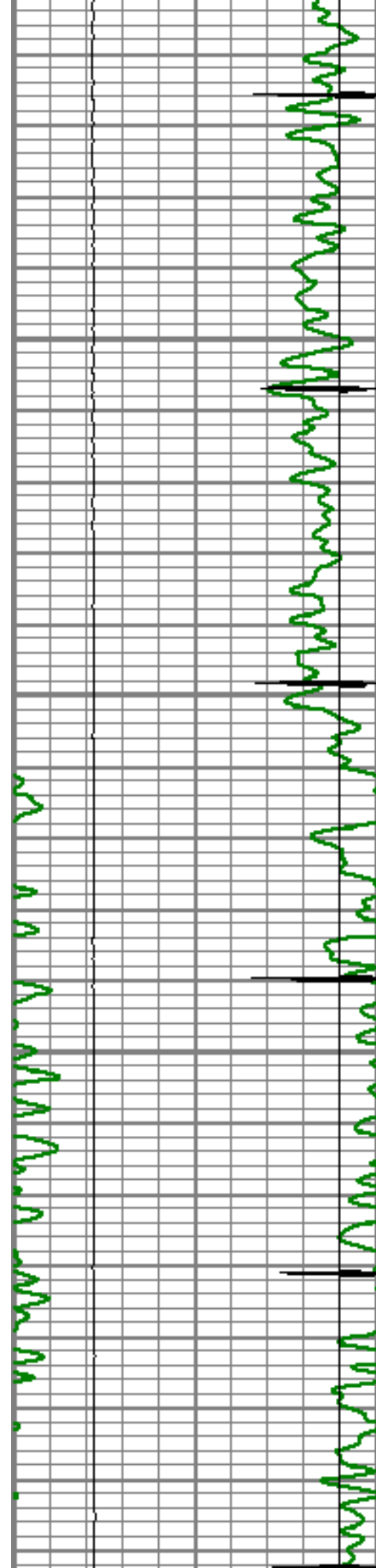
6600

6650

6700

6750



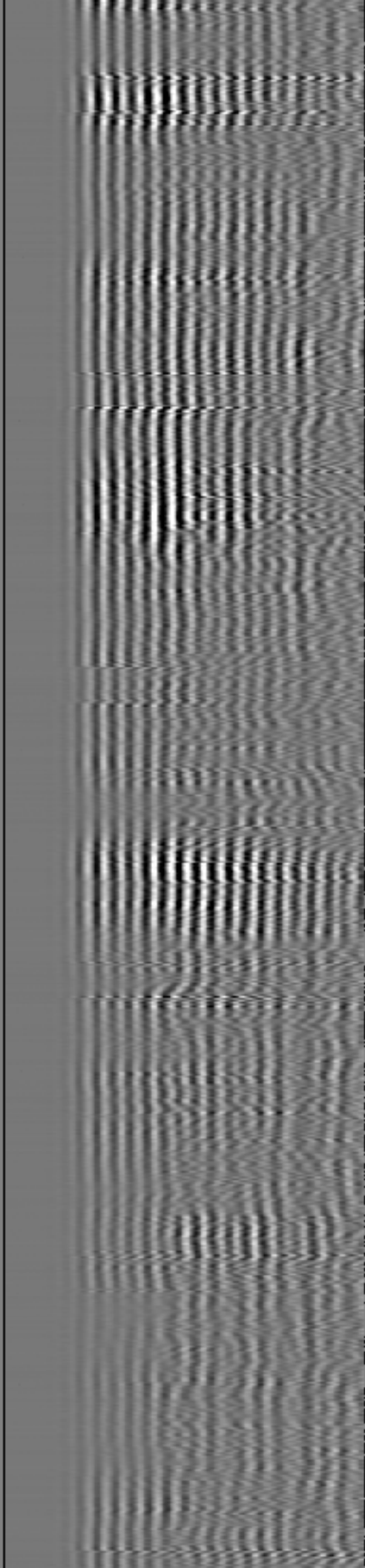
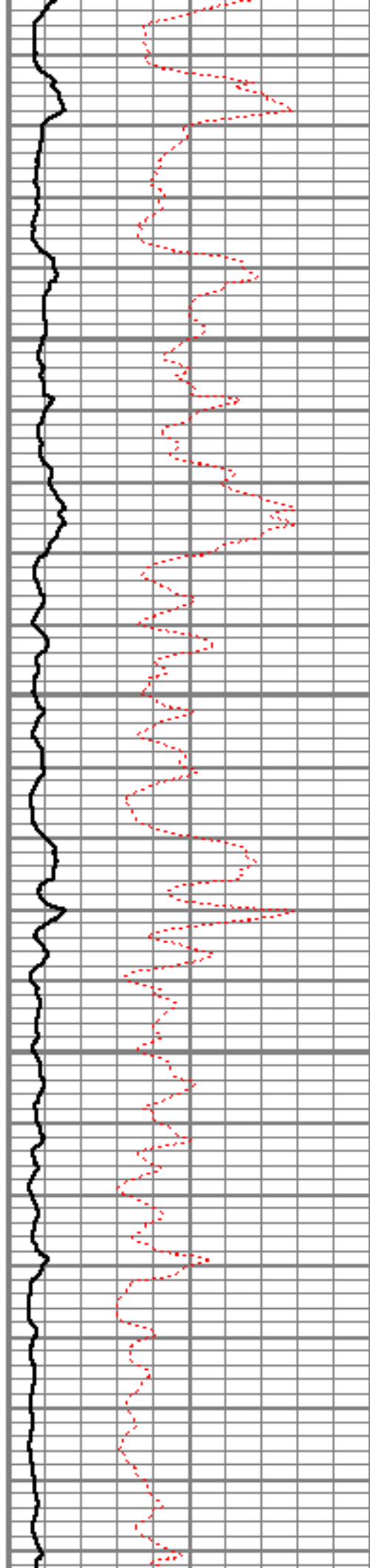


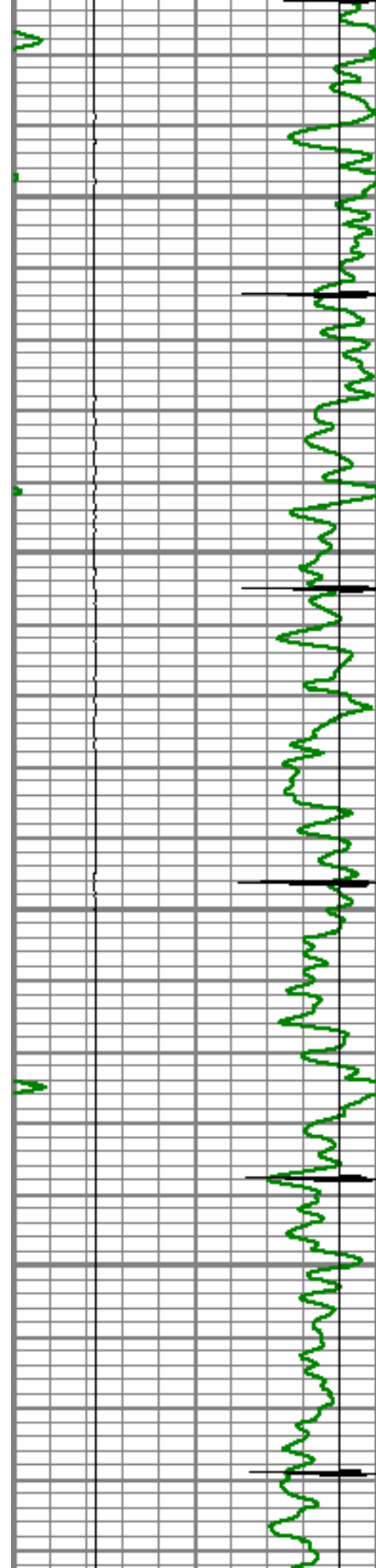
6800

6850

6900

6950



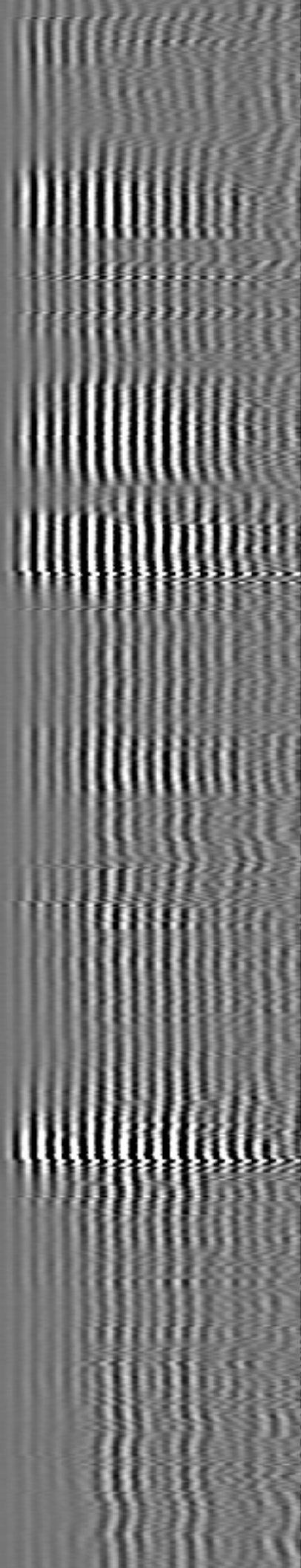
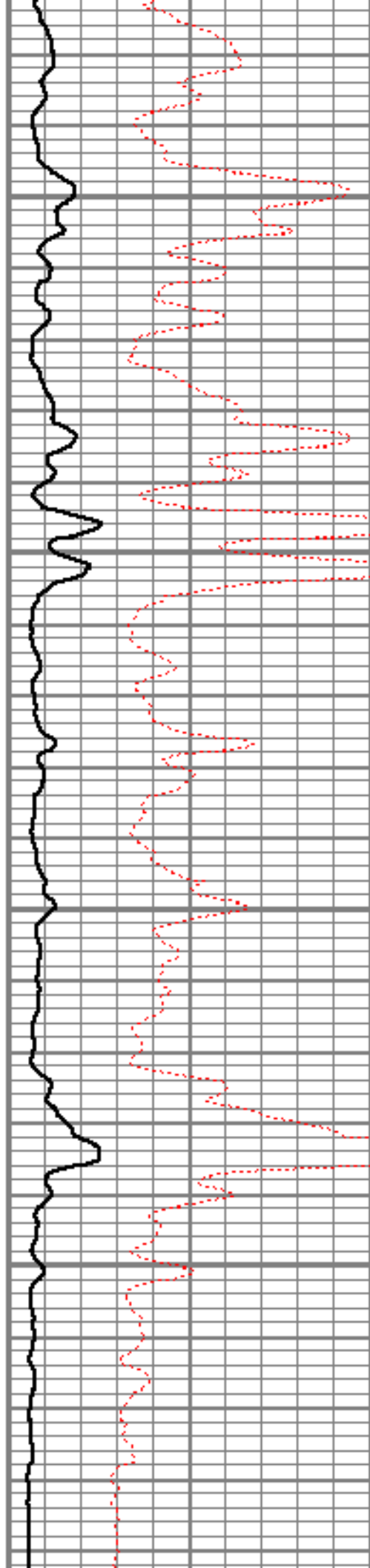


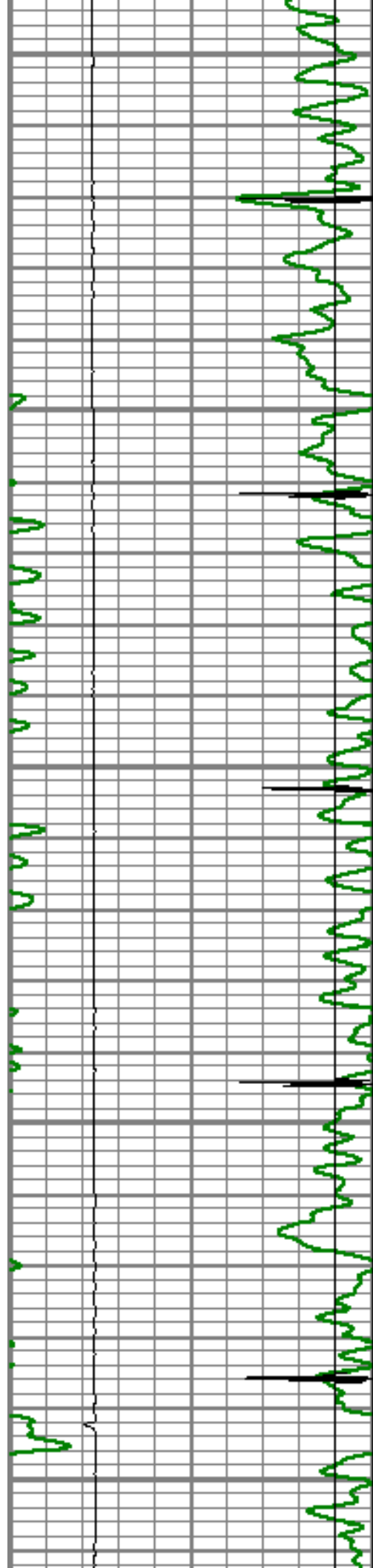
7000

7050

7100

7150





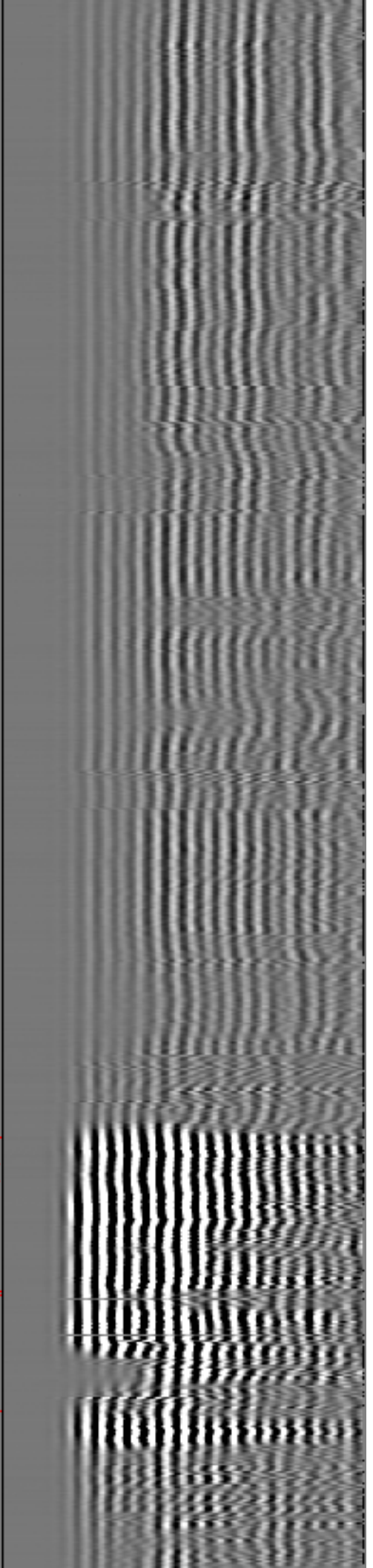
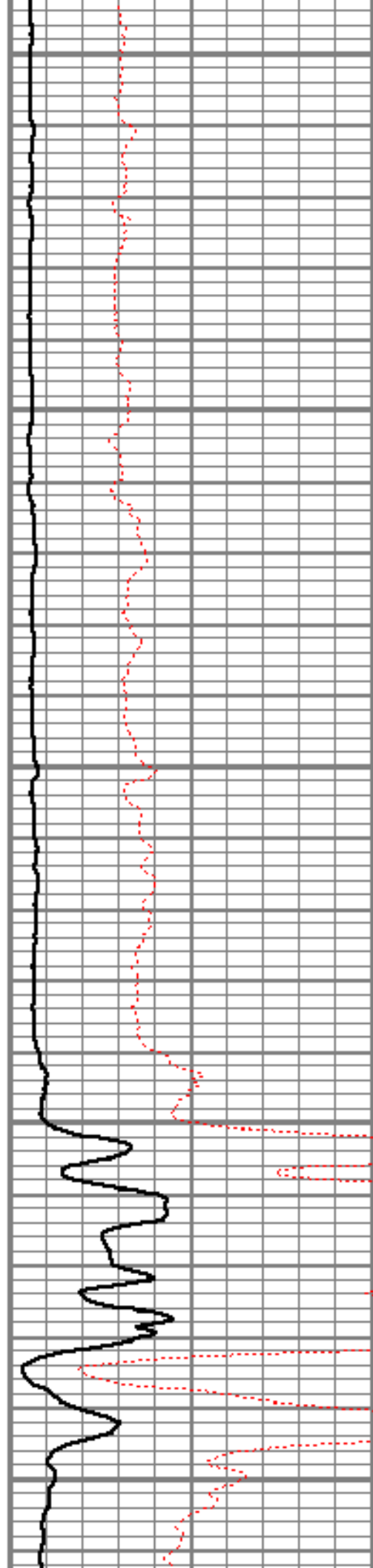
7200

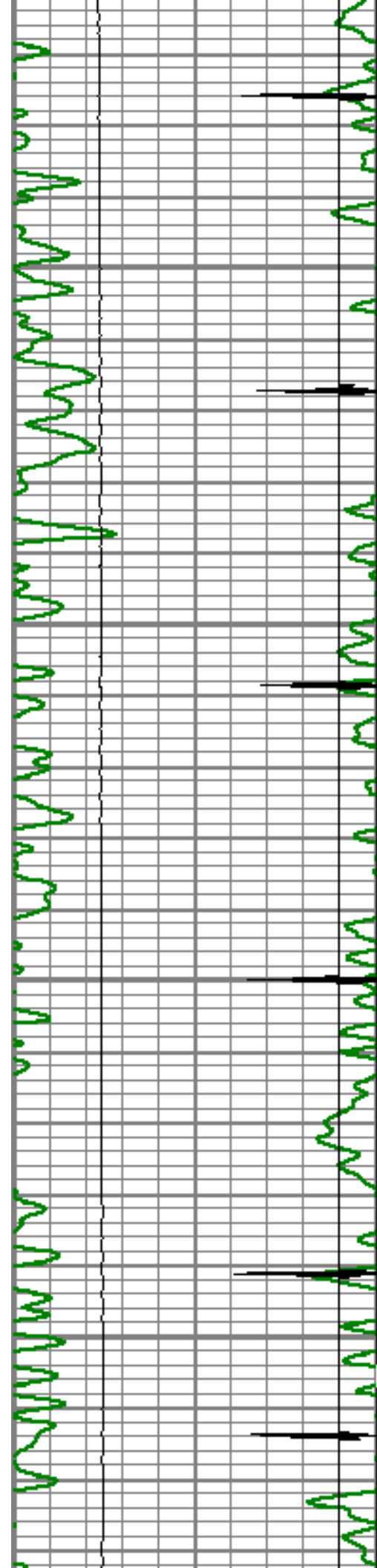
7250

7300

7350

7400





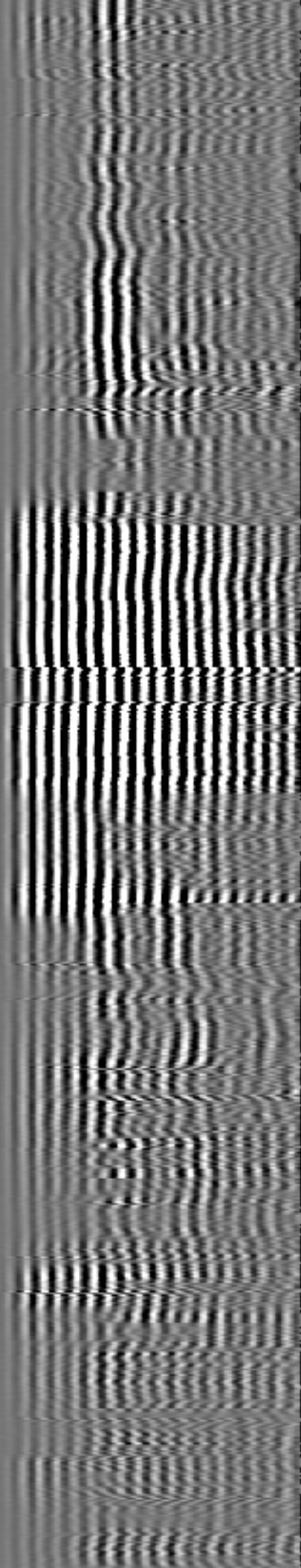
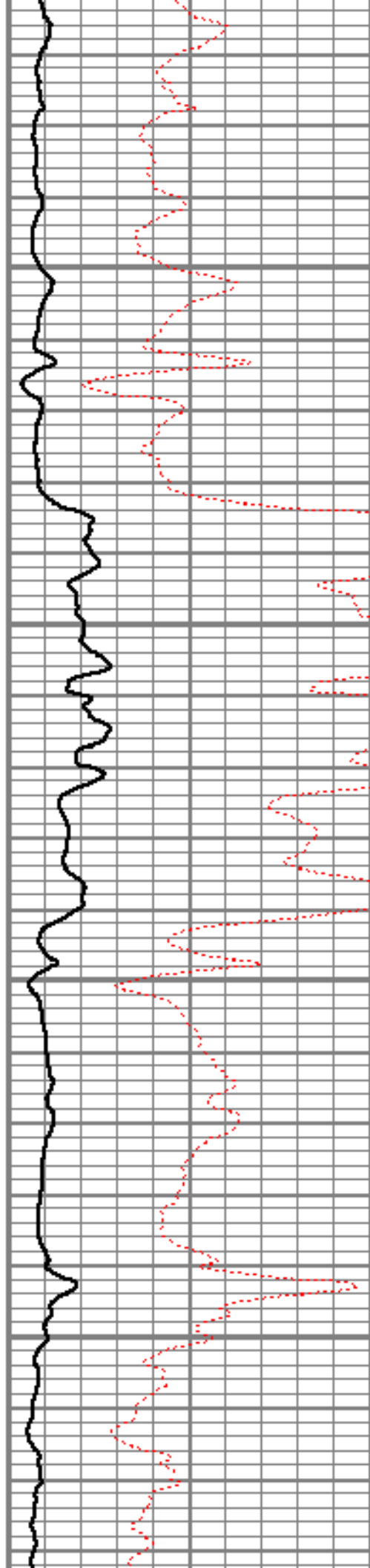
7450

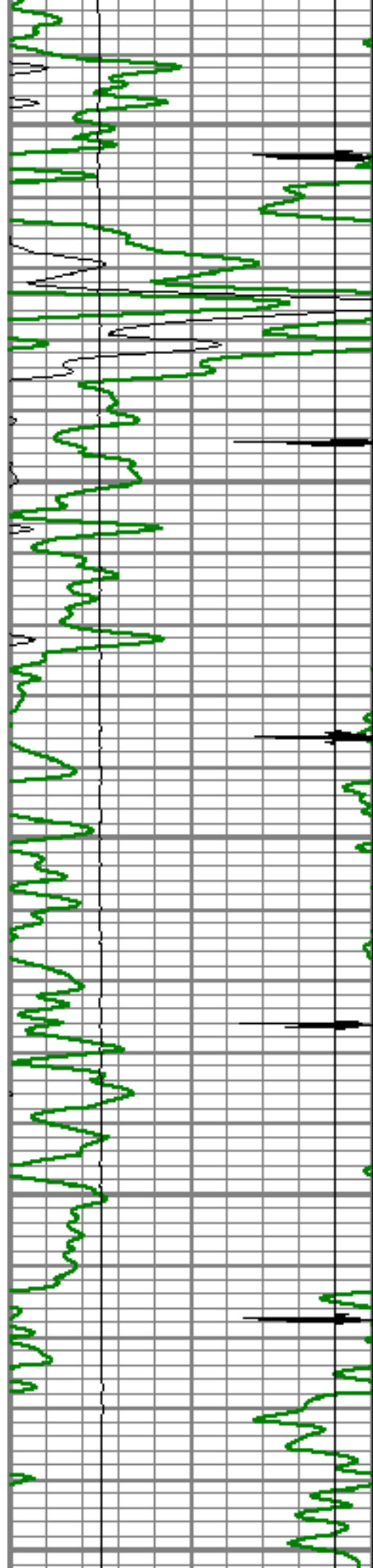
7500

7550

7600

Short Joint





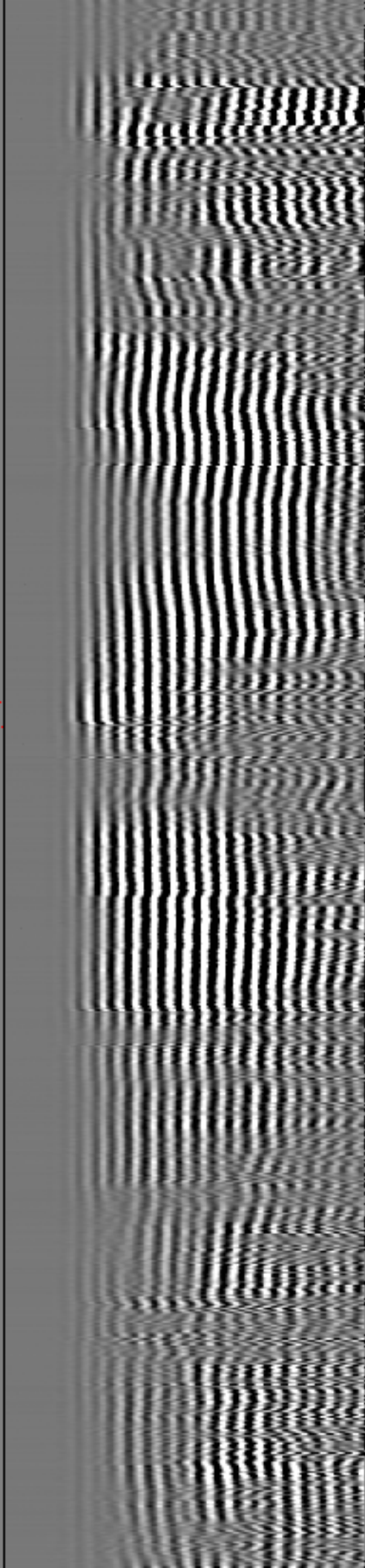
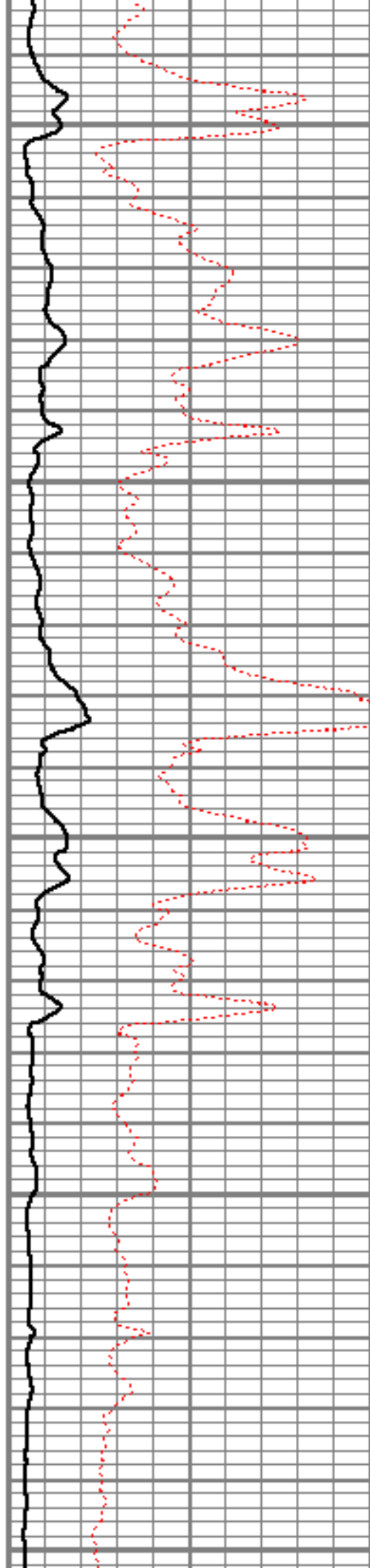
7650

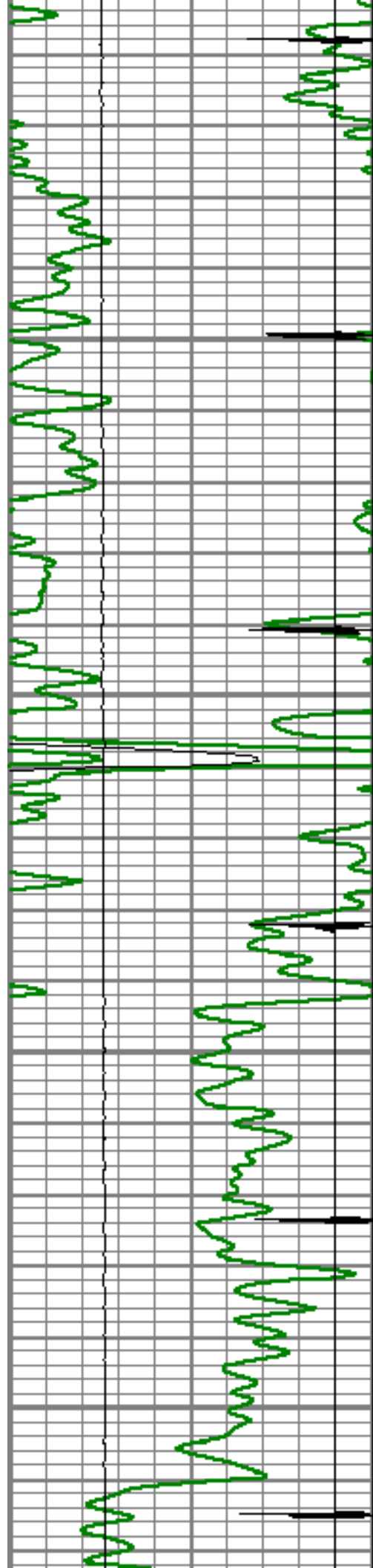
7700

7750

7800

7850



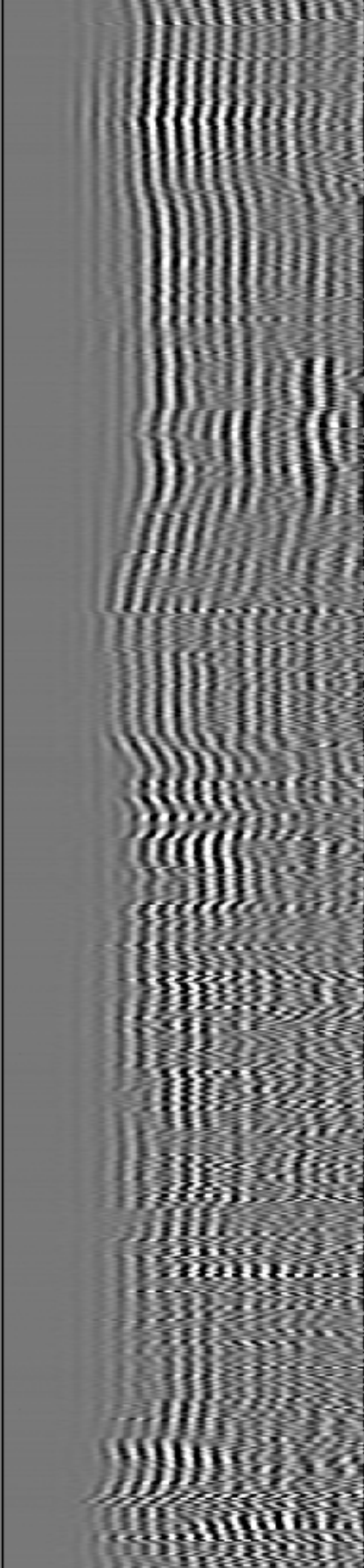
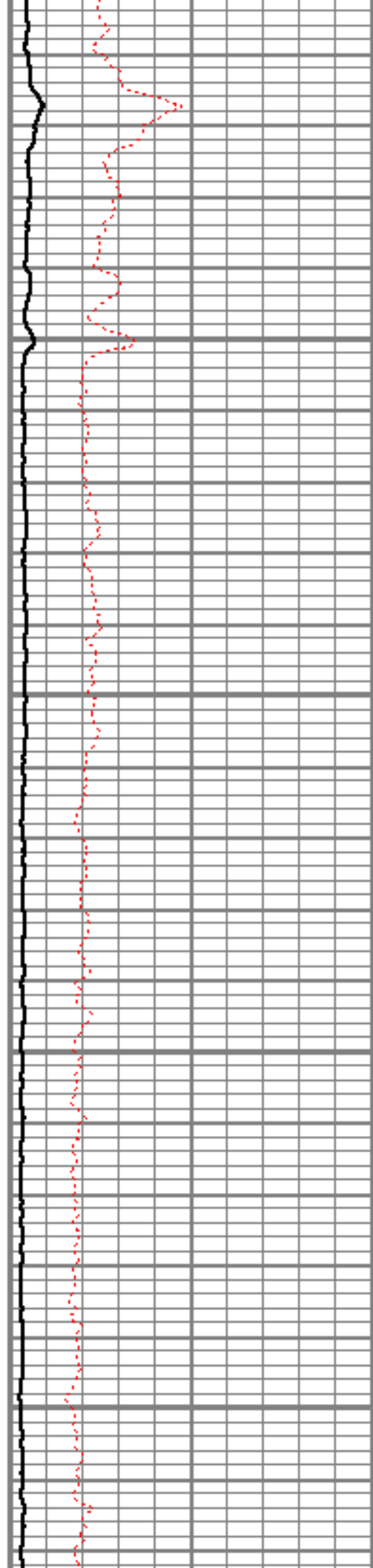


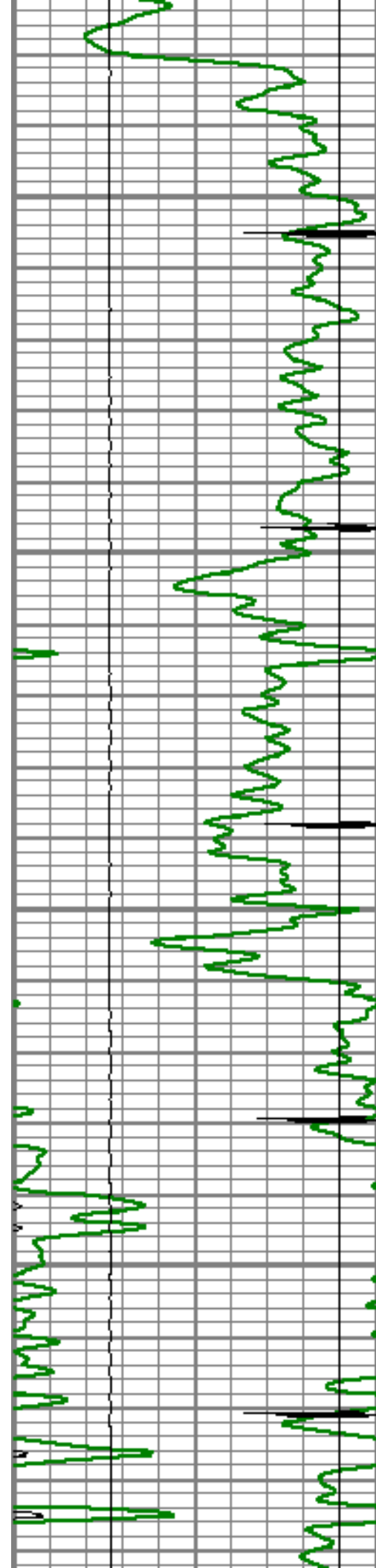
7900

7950

8000

8050



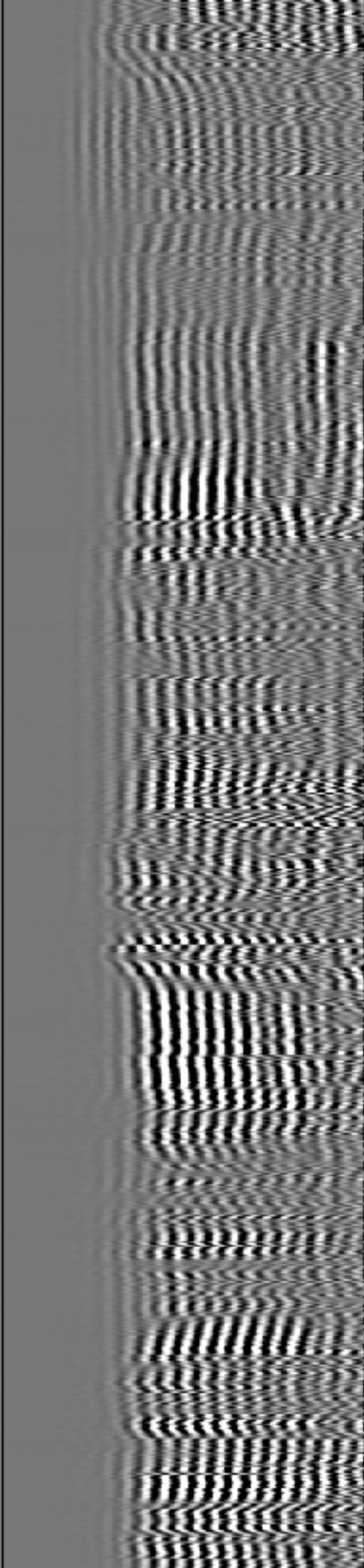
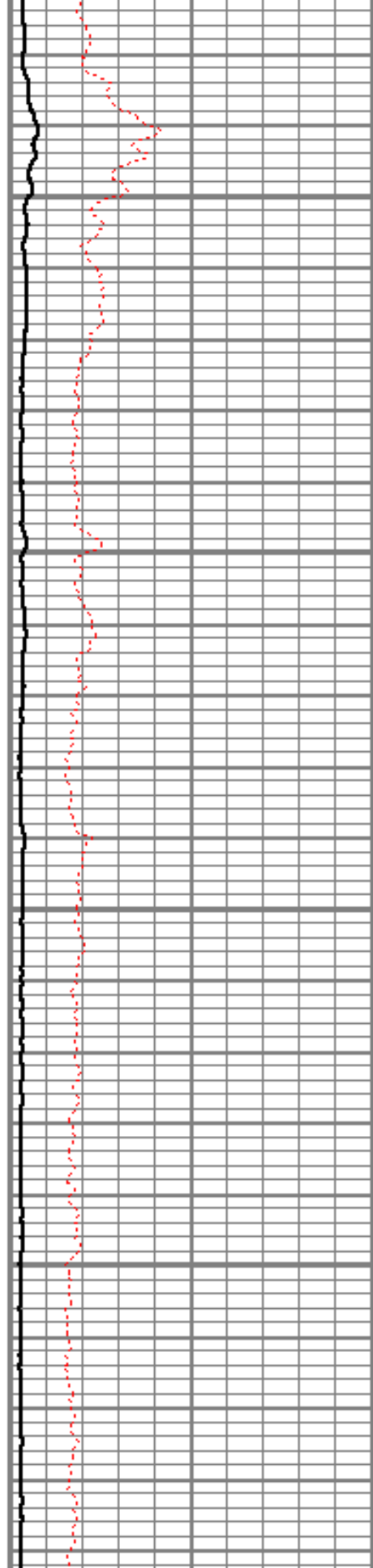


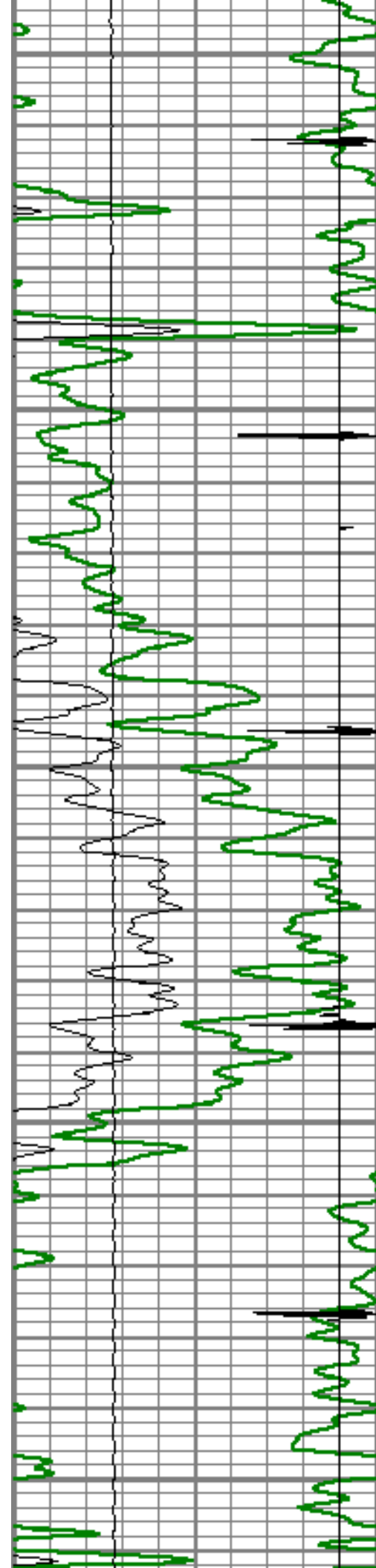
8100

8150

8200

8250





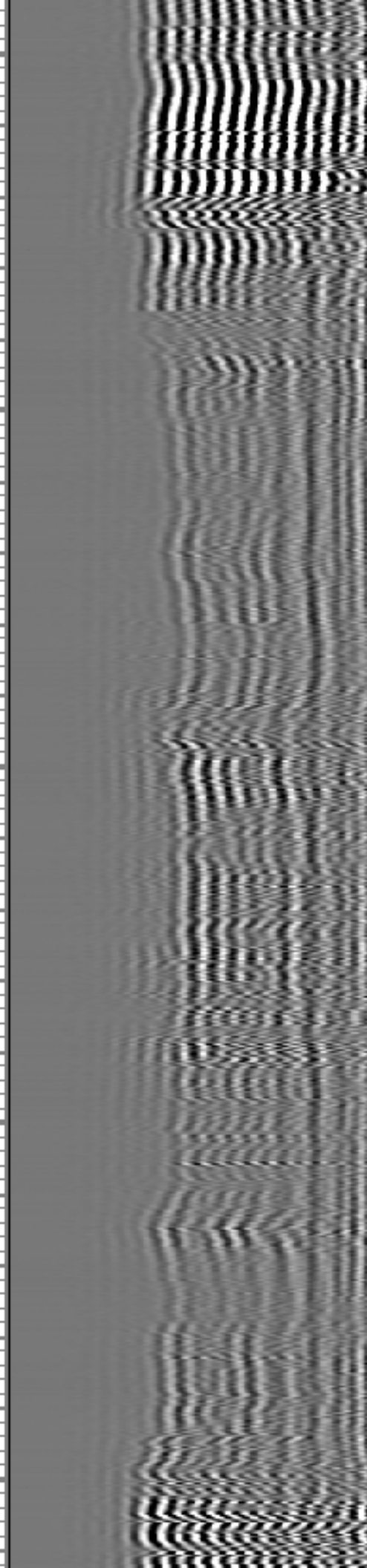
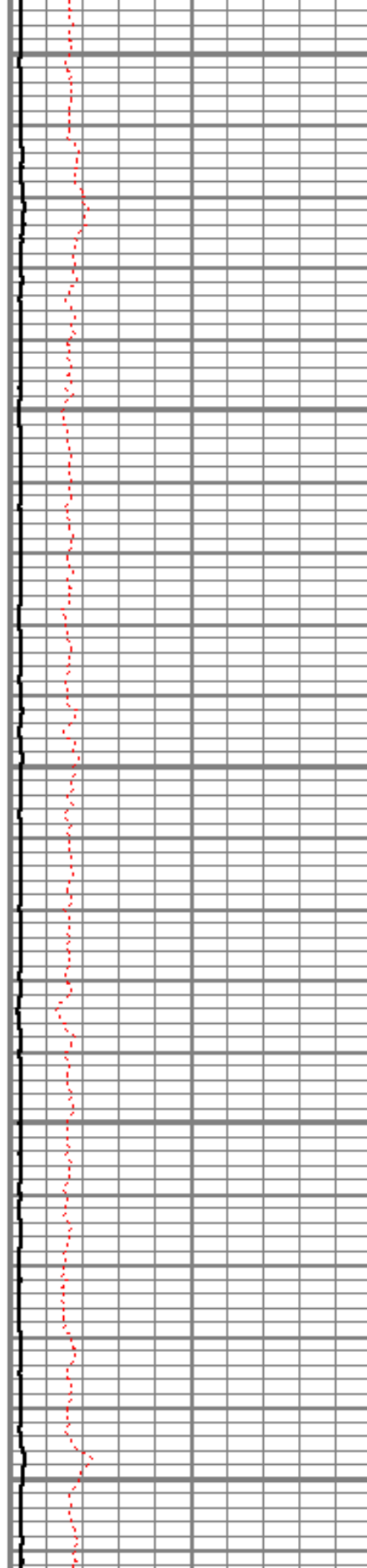
8300

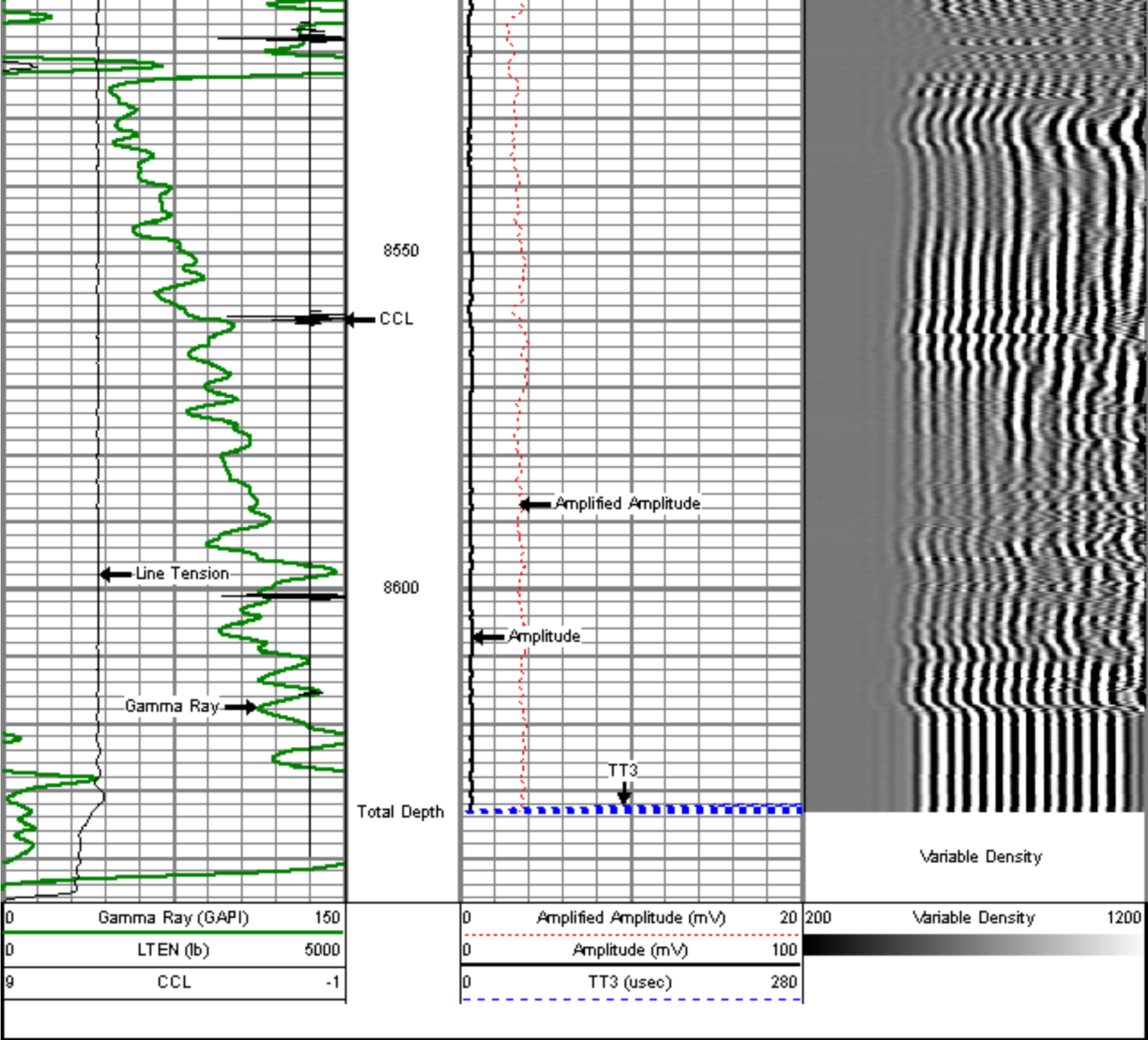
8350


8400

8450

8500





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
titan				1.02	1.44	1.50
Centralizer-Probe (CENT-PROBE-1)				2.88	2.75	10.00
Probe Bowspring Centralizer						

WVF3	13.54		CBL-Probe (DCBL_PRB_275_01) Probe 2.75" Dual Receiver Bond	8.77	2.75	60.00
WVF5	12.54					
			Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer	2.88	2.75	10.00
CCL	5.50		GR-Probe (GRCCL_PRB_275_01) Probe 2.75" 4 Channel Probe	4.54	2.75	30.00
GR	2.77					
			TEMP-1.375TEMP (11116HT) 1.375" Temp Tool	1.88	1.40	30.00
TEMP	0.17					
Dataset: 6-8.db: field/well/run1/pass18oh Total Length: 21.96 ft Total Weight: 141.50 lb O.D.: 2.75 in						

	Company	ENCANA OIL & GAS (USA)
	Well	COSTIGAN 6-8-20
	Field	WATTENBERG
	County	WELD
	State	COLORADO