



CEMENT BOND LOG

Mesa Wireline

Company ENCANA OIL & GAS (USA) INC
Well ARISTOCRAT ANGUS 2-3
Field WATTENBERG
County WELD
State COLORADO

Company ENCANA OIL & GAS (USA) INC
Well ARISTOCRAT ANGUS 2-3
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-33107-0000
SHL: 895' FNL & 2108' FWL
BHL: 1400' FNL & 1325' FWL
SEC: 3 TWP: 3N RGE: 65W
Permanent Datum GROUND LEVEL Elevation 4765'
Log Measured From KELLY BUSHING = 12'
Drilling Measured From KELLY BUSHING
Other Services
NONE
Elevation
K.B. 4777'
D.F. 4776'
G.L. 4765'

Date 7 DECEMBER 2011

Run Number	ONE
Depth Driller	7804'
Depth Logger	7758'
Bottom Logged Interval	7758'
Top Log Interval	2900'
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	~8.3#
Max. Recorded Temp.	273 DEG F
Estimated Cement Top	3098'
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	10901 PRD 01
Location	AULT, CO
Recorded By	Z. EMICK
Witnessed By	T. MAJORS

Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	0'	UNKNOWN				
TWO	7.875"	0'	7818'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625"	24#	0'	UNKNOWN
Prot. String				
Production String	4.5"	11.6#	0'	7804'
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

LOG CORRELATED TO PSI HIGH RESOLUTION INDUCTION LOG DATED 13 NOVEMBER 2011
SHORT JOINT 6919' - 6941'

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



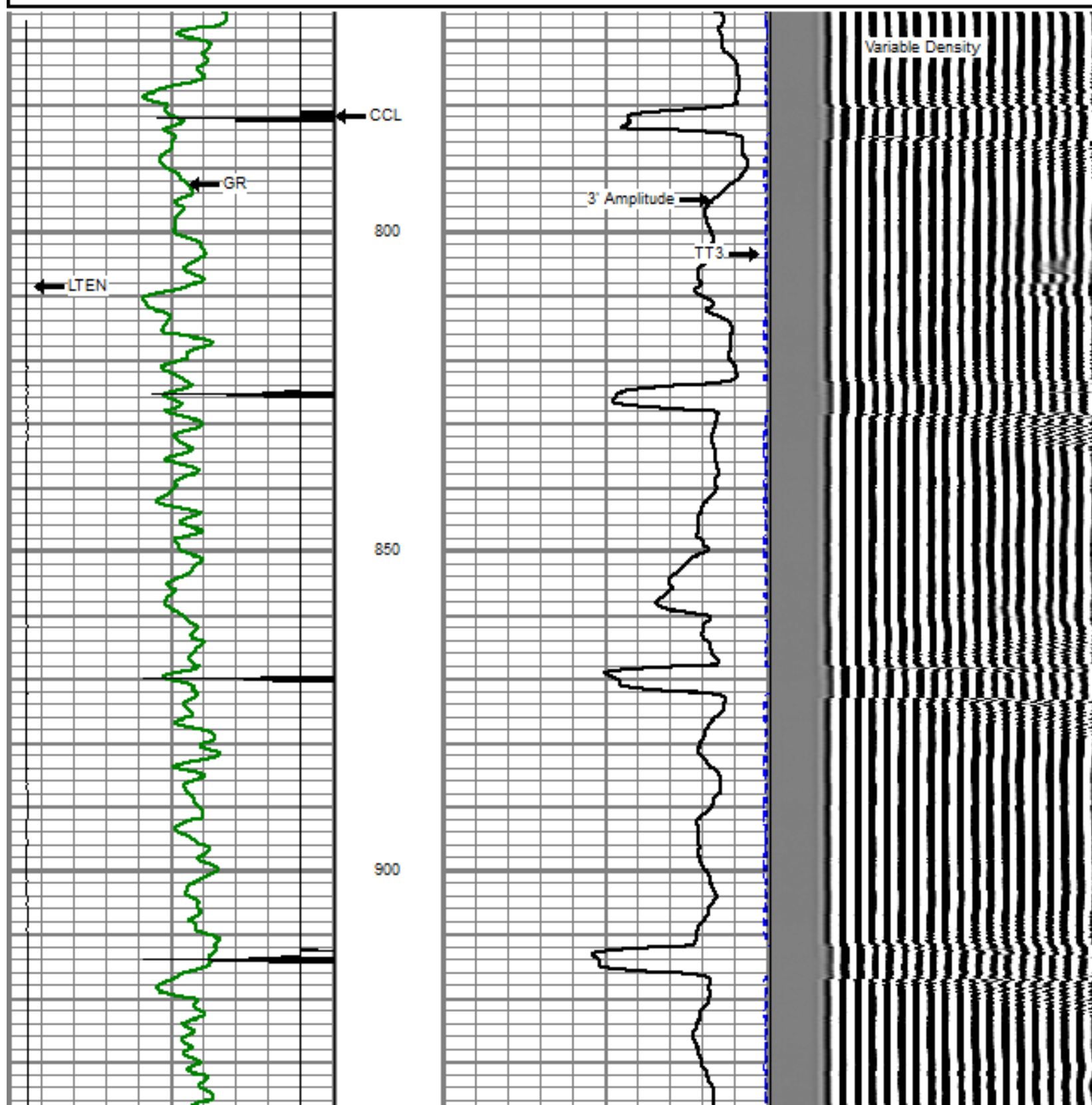
TOP PASS

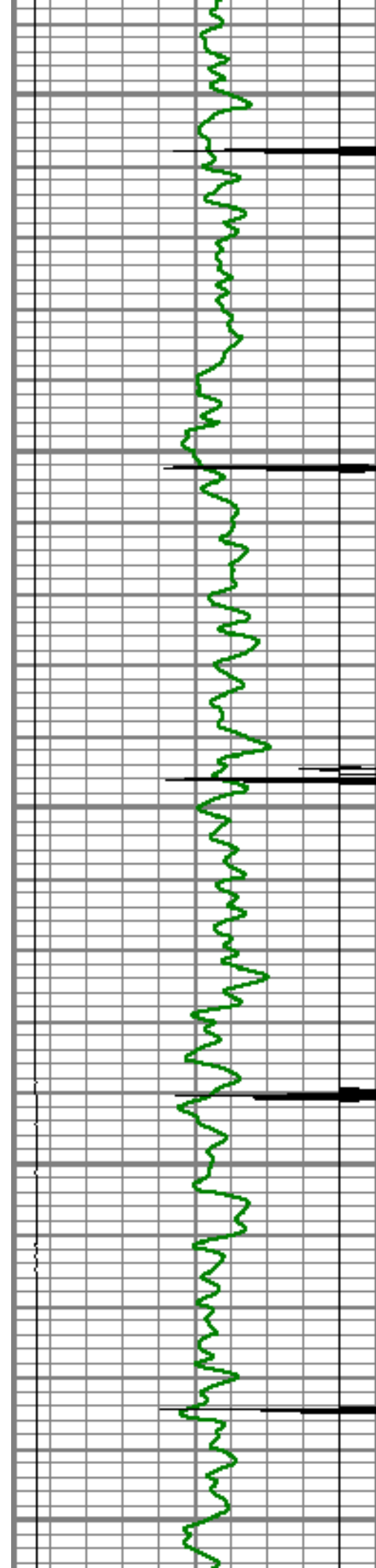
Database File: aristocrat angus 2-3.db
Dataset Pathname: pass4.2
Presentation Format: dobl_prb
Dataset Creation: Wed Dec 07 15:08:38 2011 by Calc SCH 110722
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200
0	LTEN (lb)	5000
9	CCL	-1

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

200 Variable Density 1200





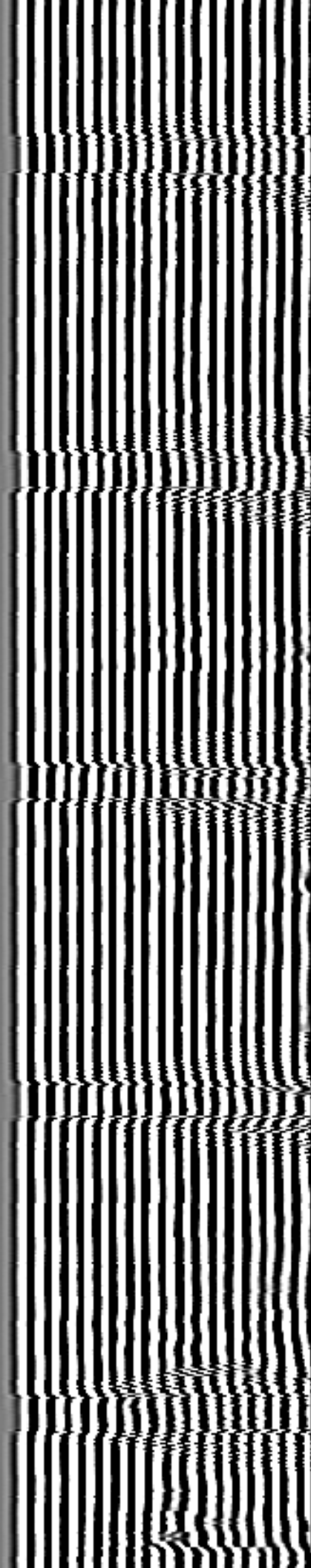
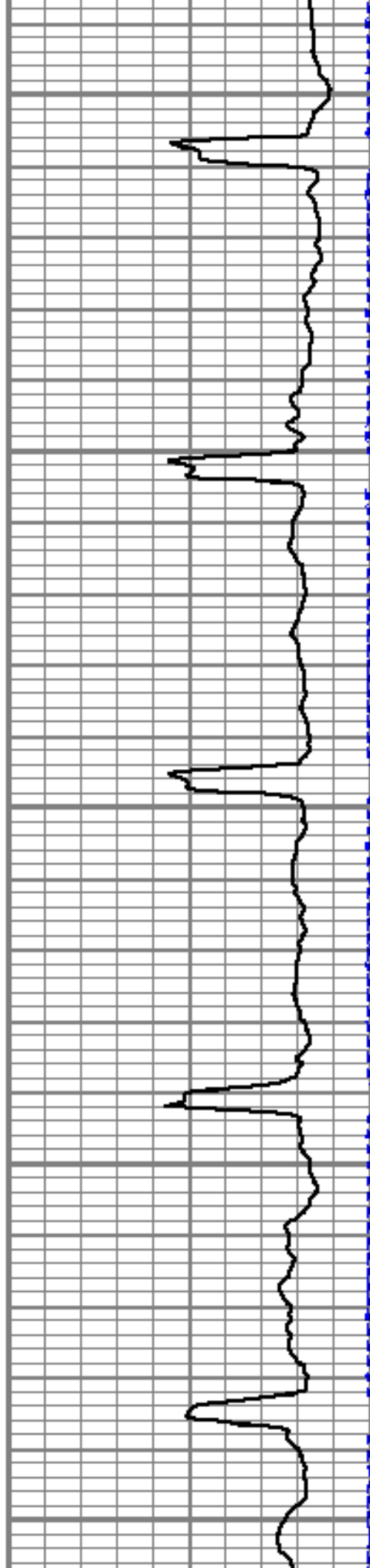
950

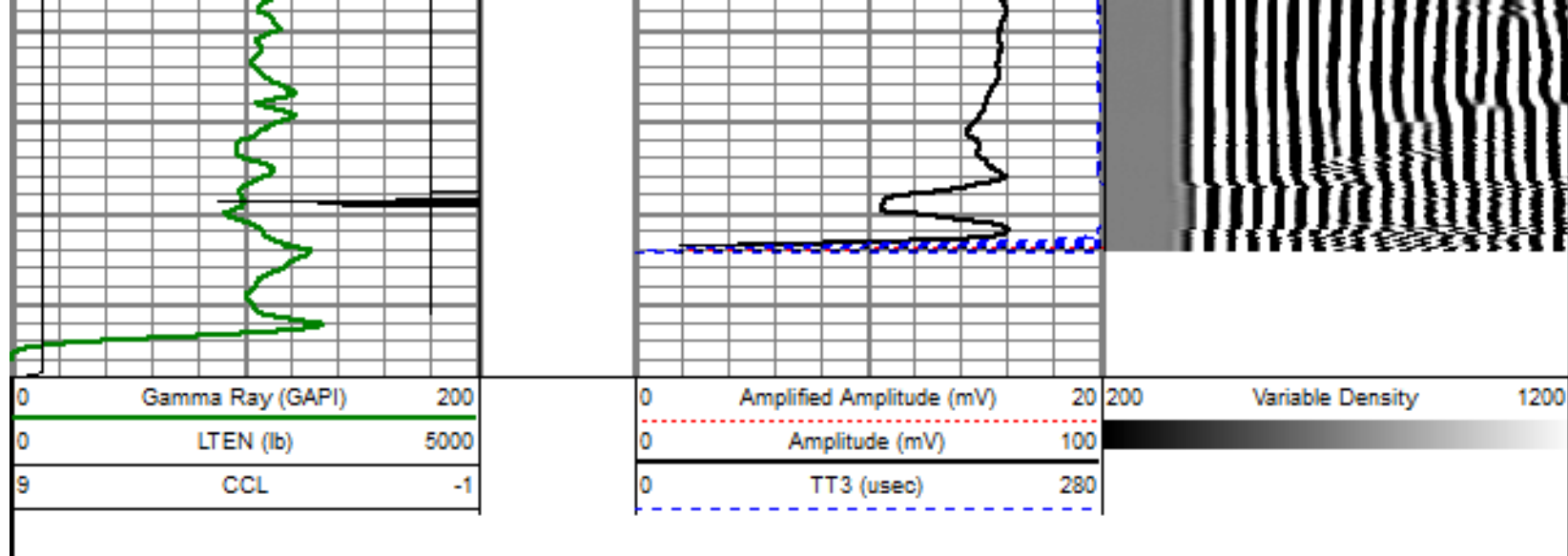
1000

1050

1100

1150

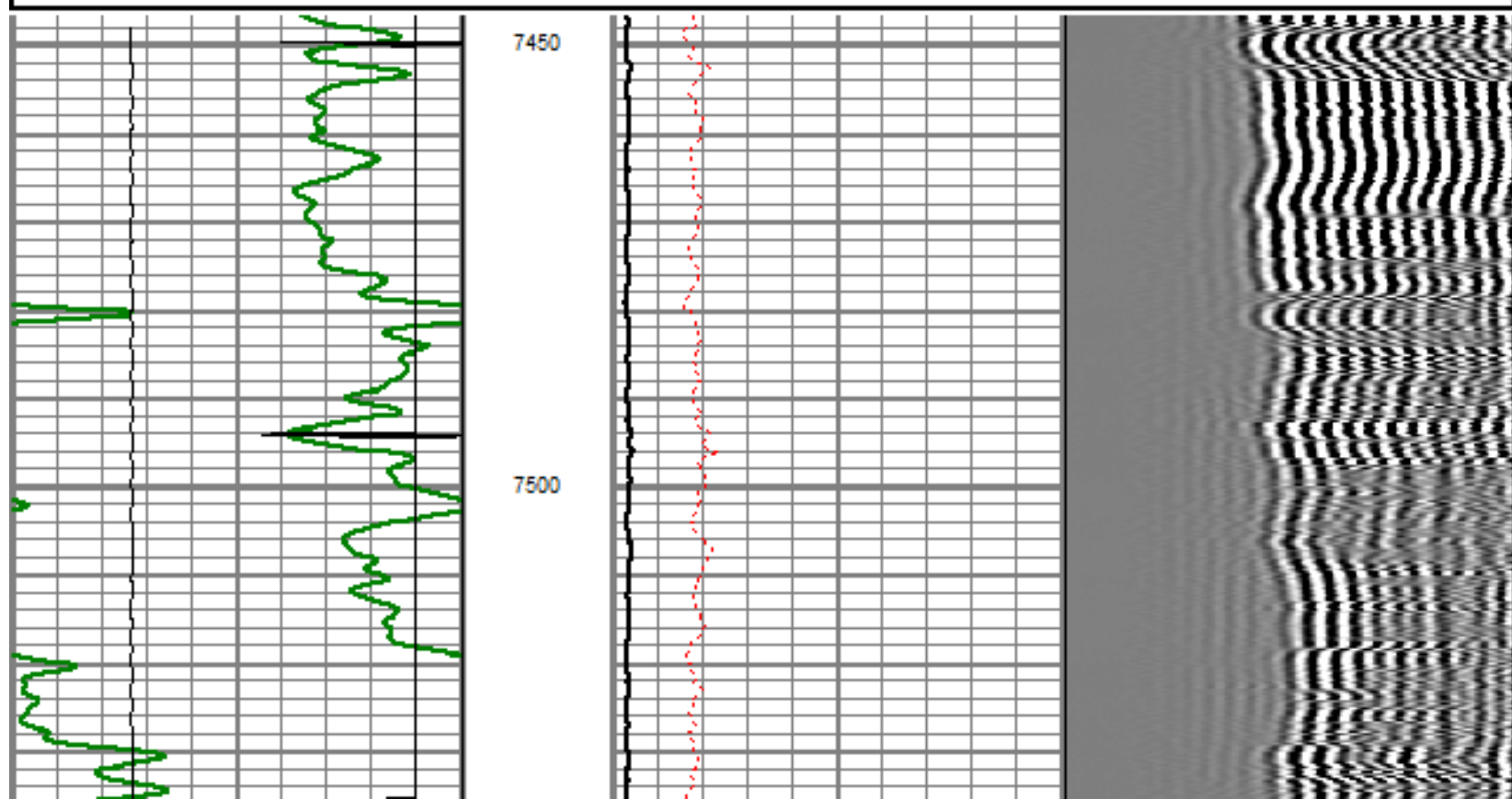
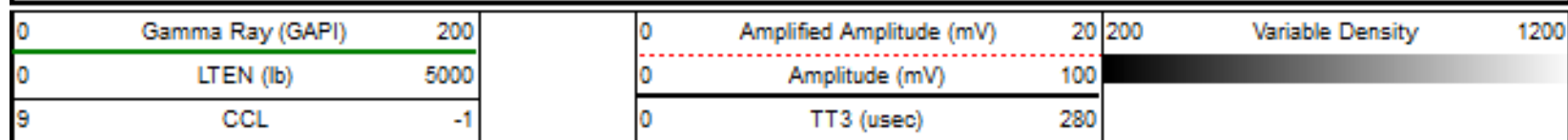


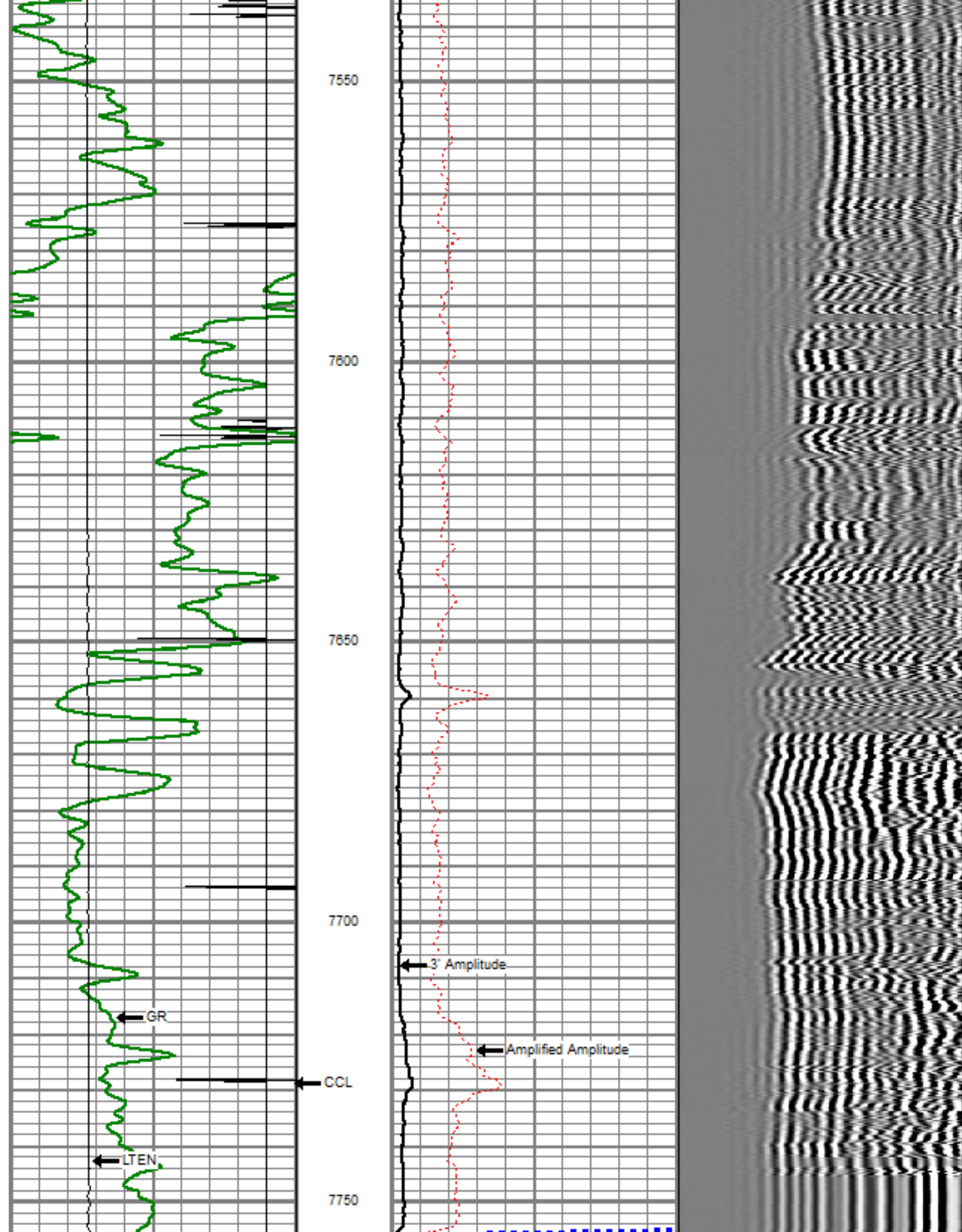


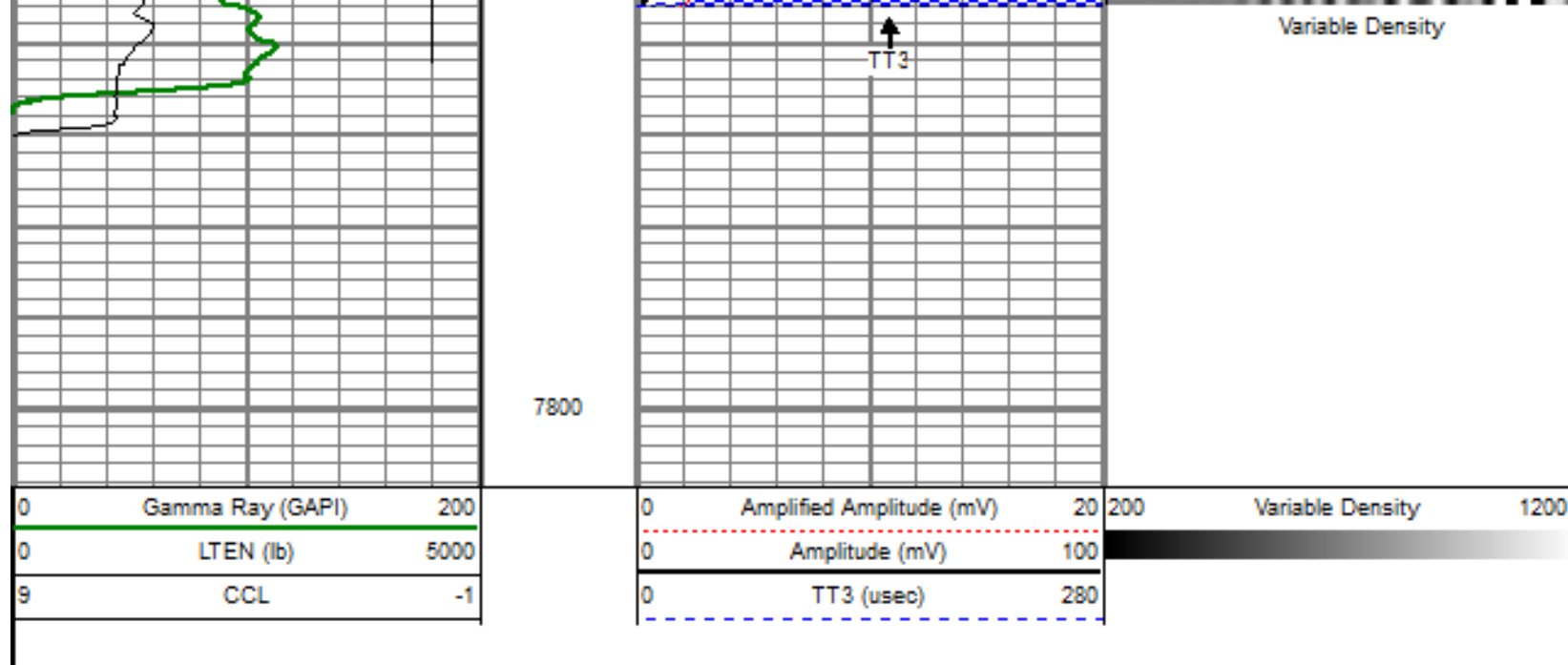
REPEAT PASS

5" = 100'

Database File: aristocrat angus 2-3.db
 Dataset Pathname: pass2
 Presentation Format: dobl_prb
 Dataset Creation: Wed Dec 07 13:38:21 2011 by Log SCH 110722
 Charted by: Depth in Feet scaled 1:240



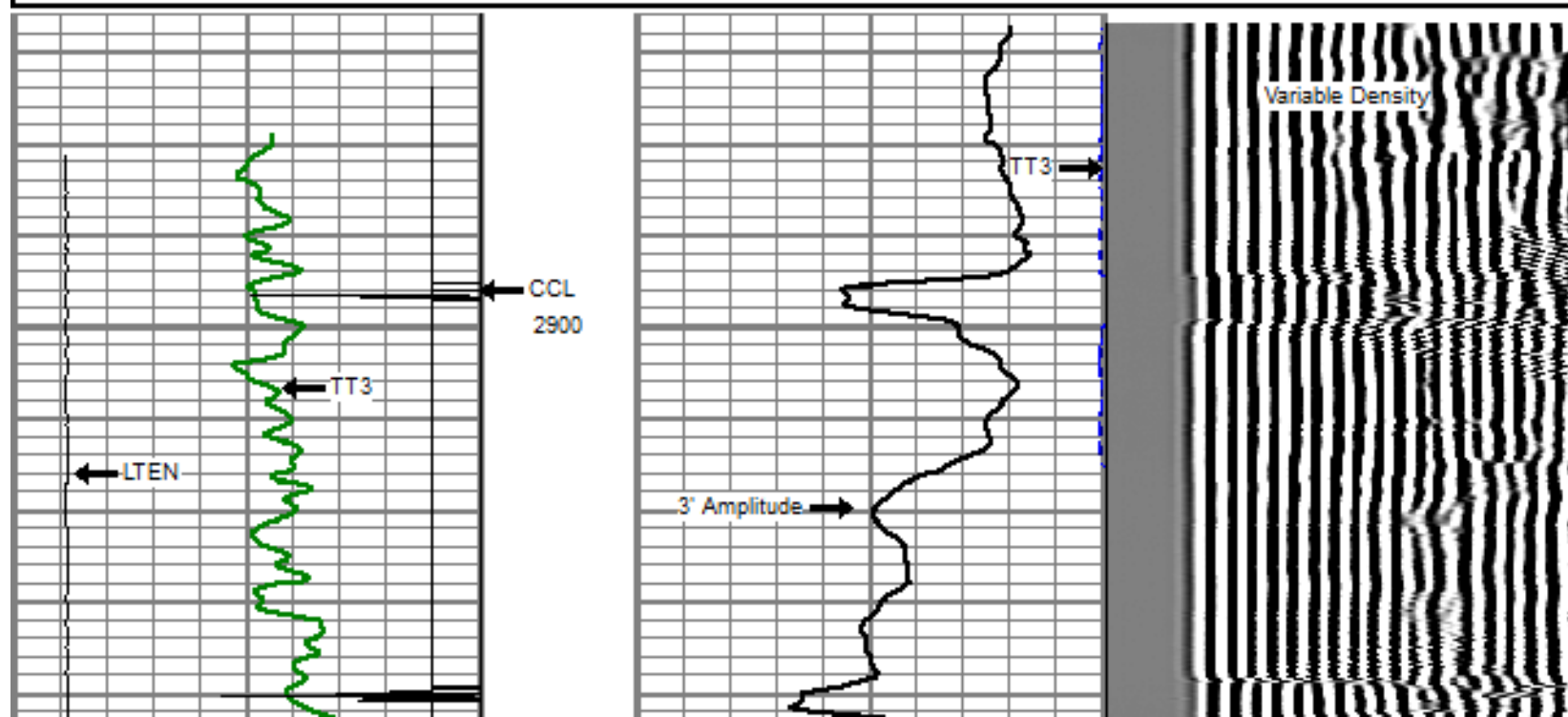
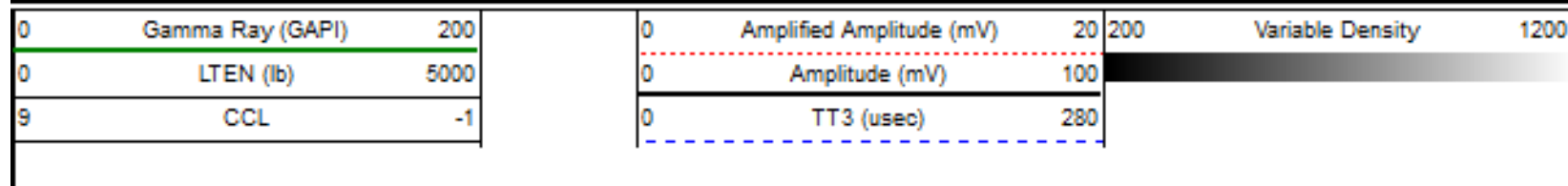


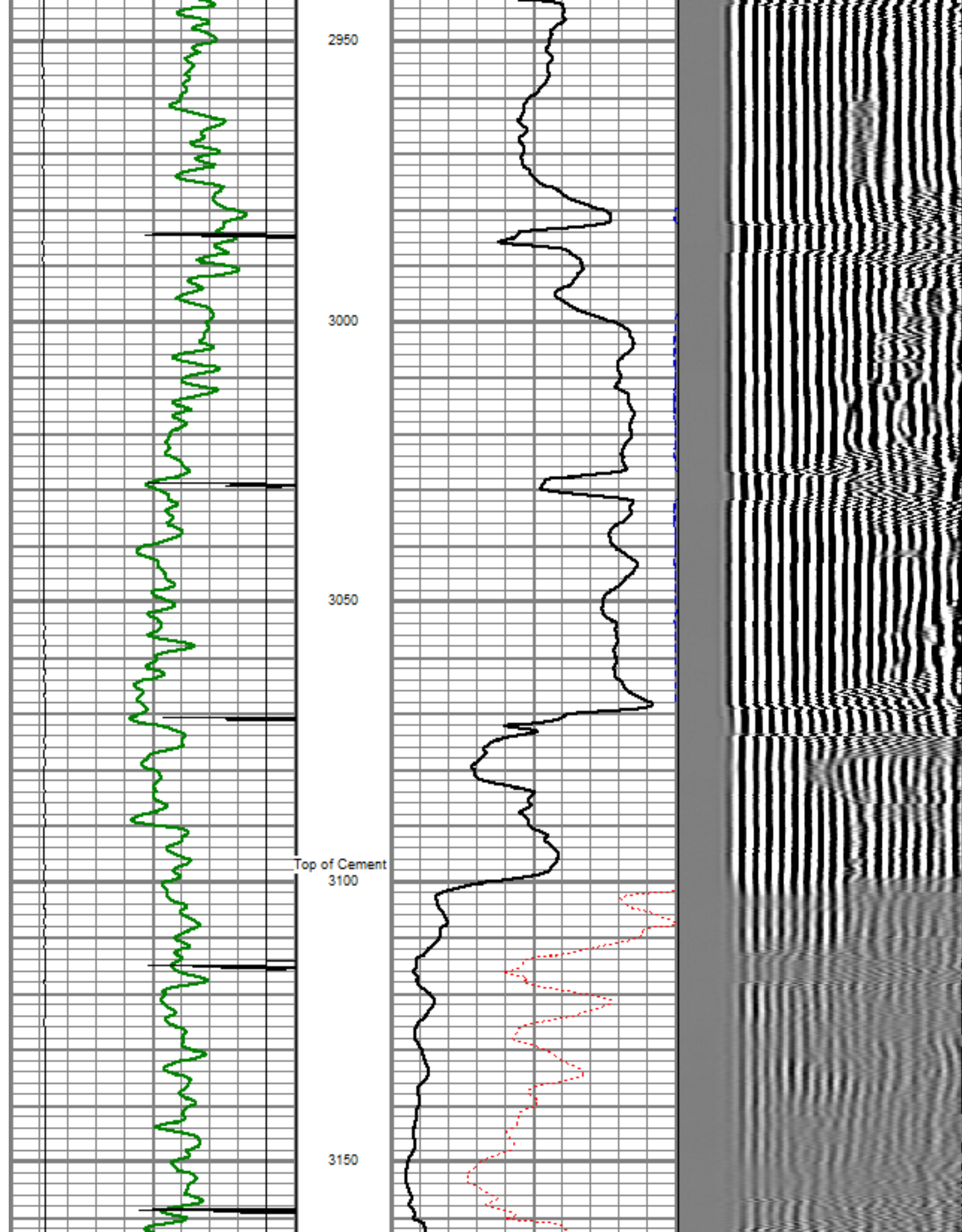


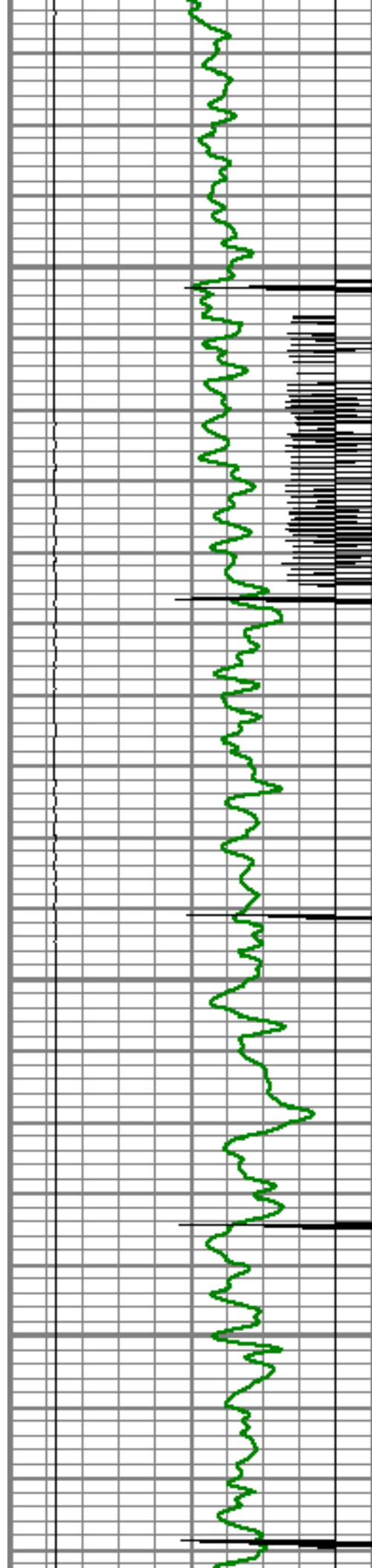
MAIN PASS

5" = 100'

Database File: aristocrat angus 2-3.db
 Dataset Pathname: pass3.10H
 Presentation Format: dobl_prb
 Dataset Creation: Wed Dec 07 14:57:36 2011
 Charted by: Depth in Feet scaled 1:240





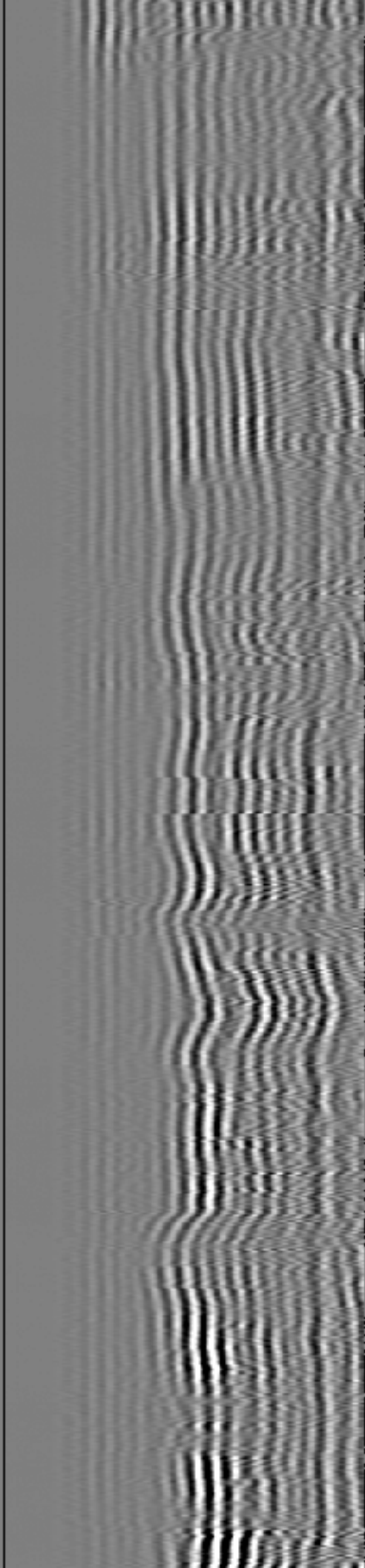
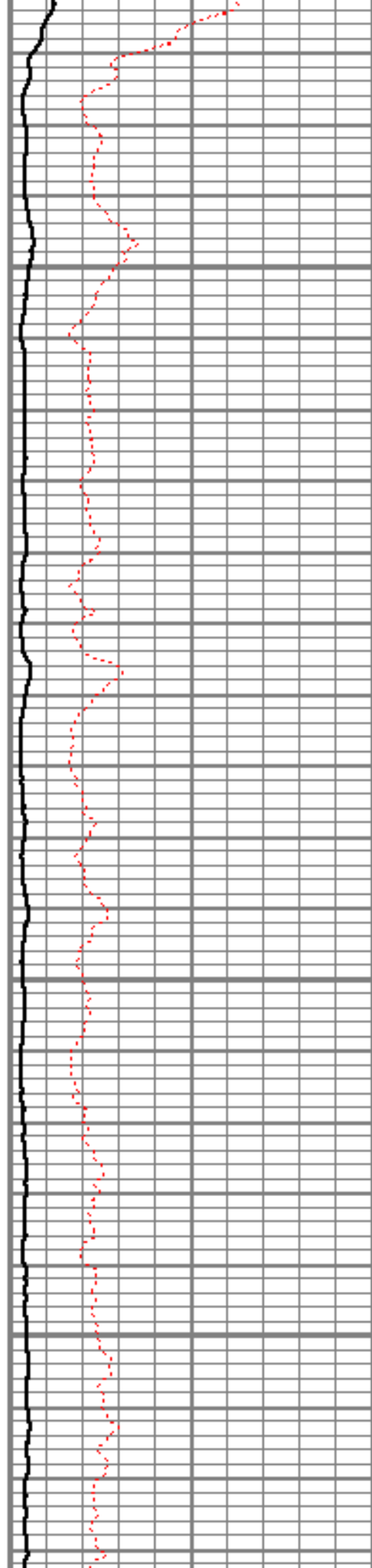


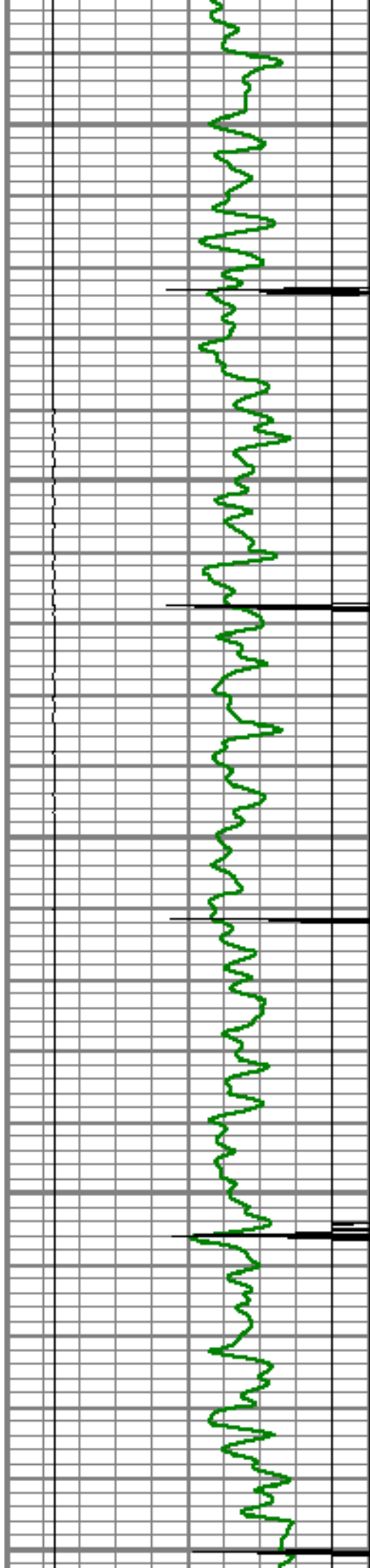
3200

3250

3300

3350





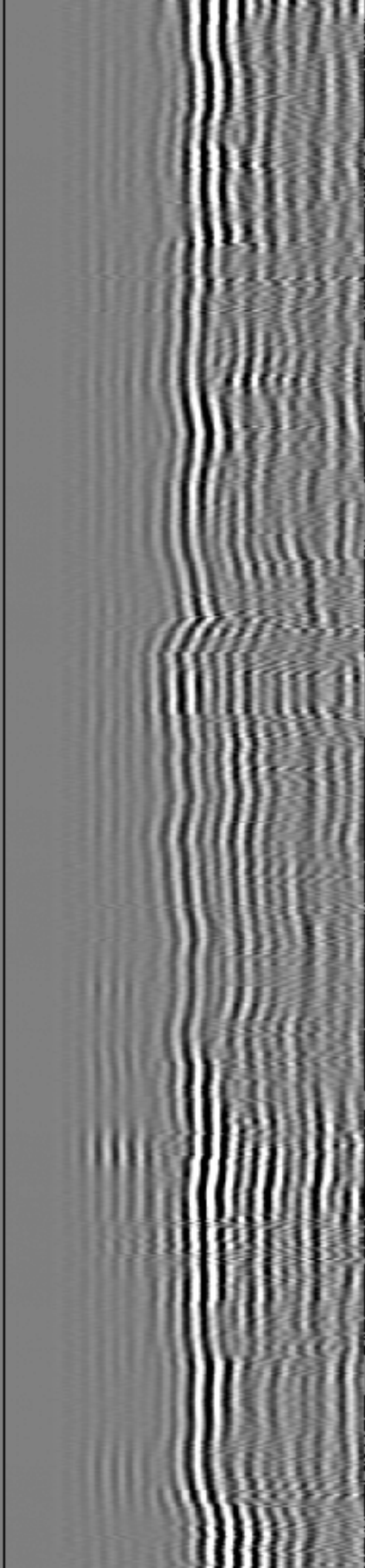
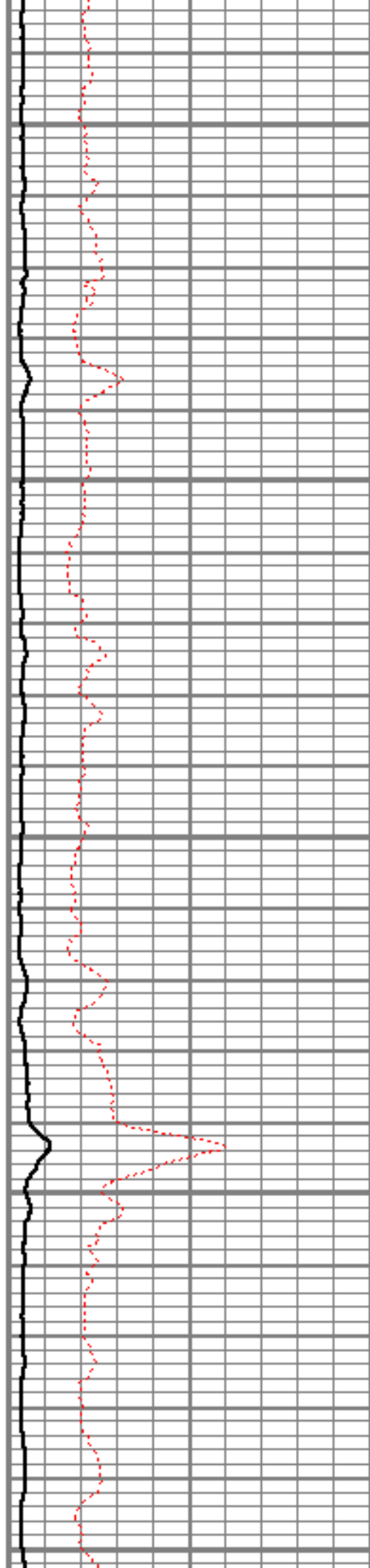
3400

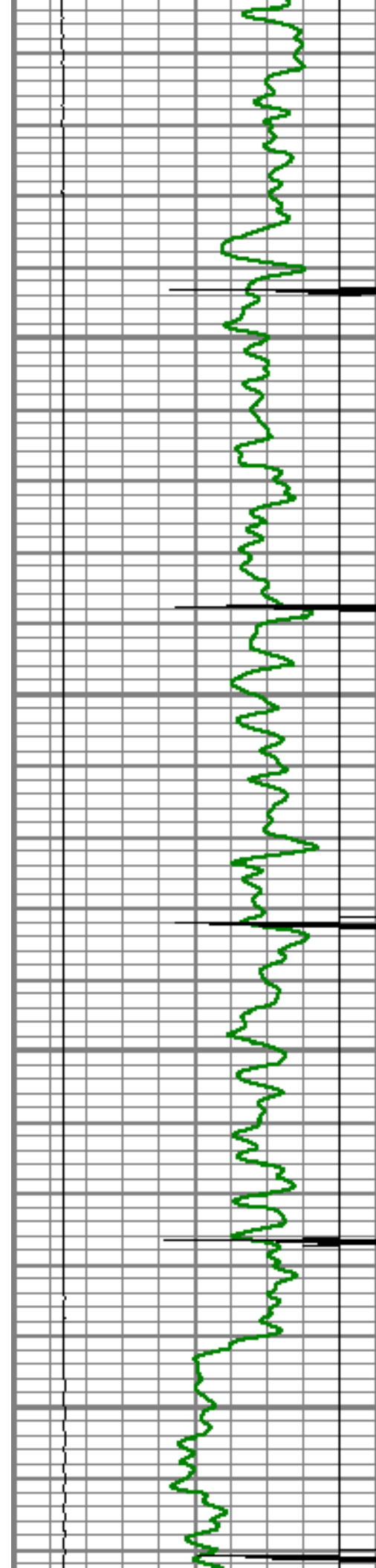
3450

3500

3550

3600



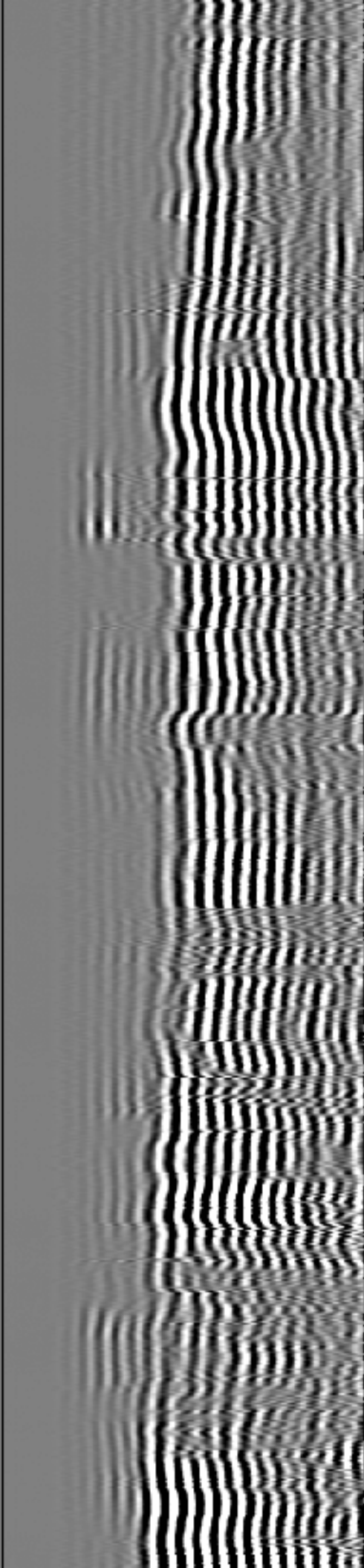
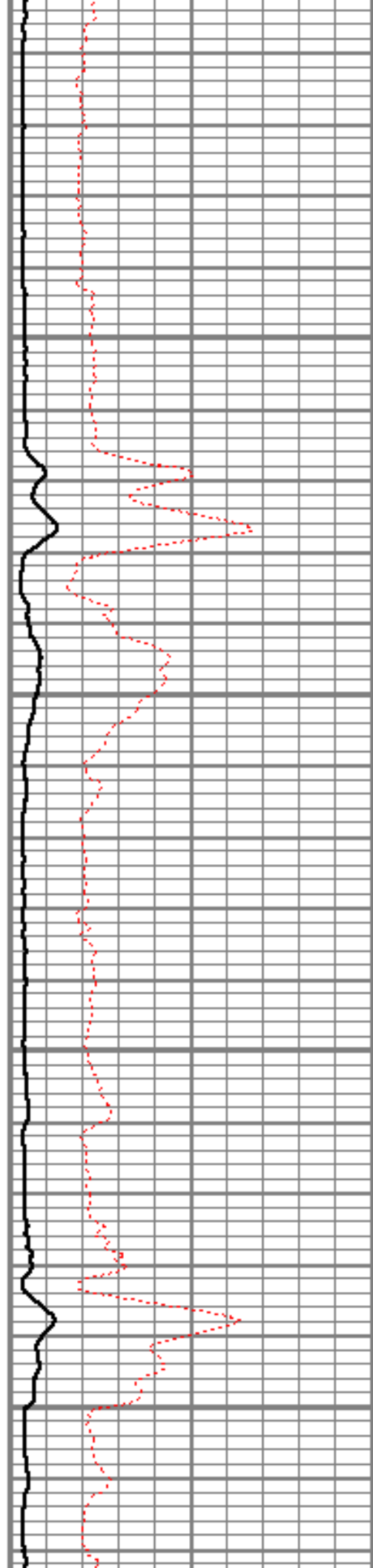


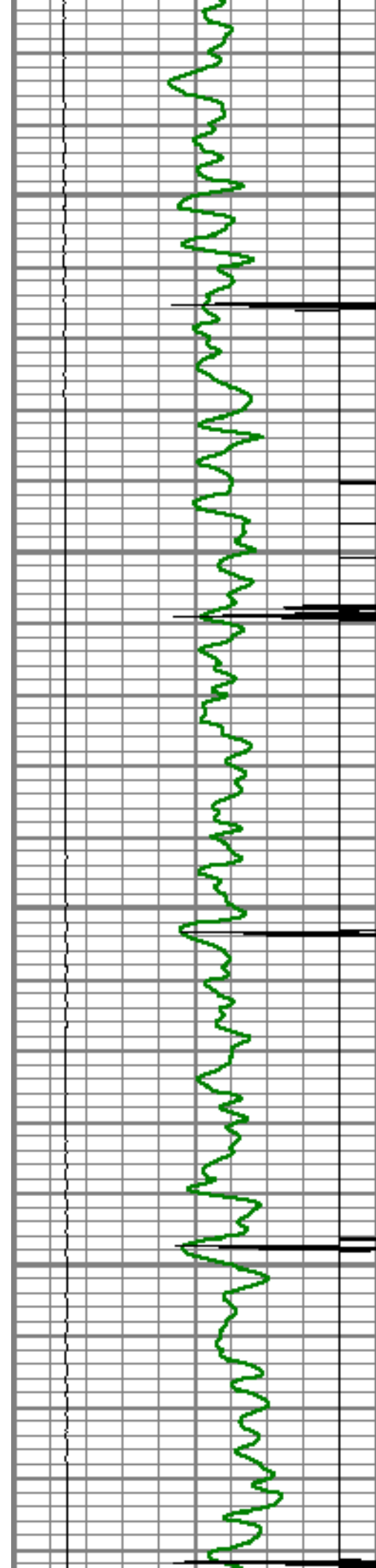
3650

3700

3750

3800



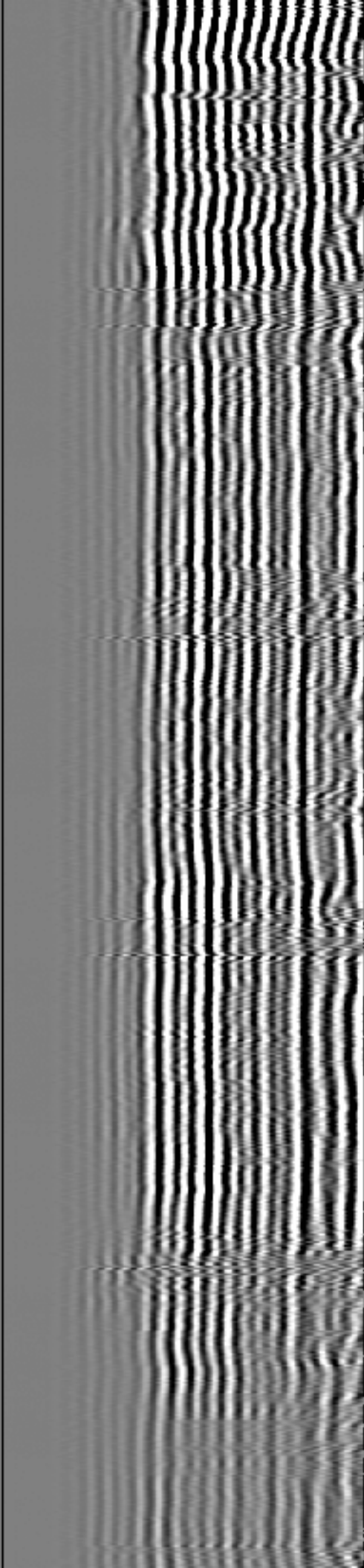
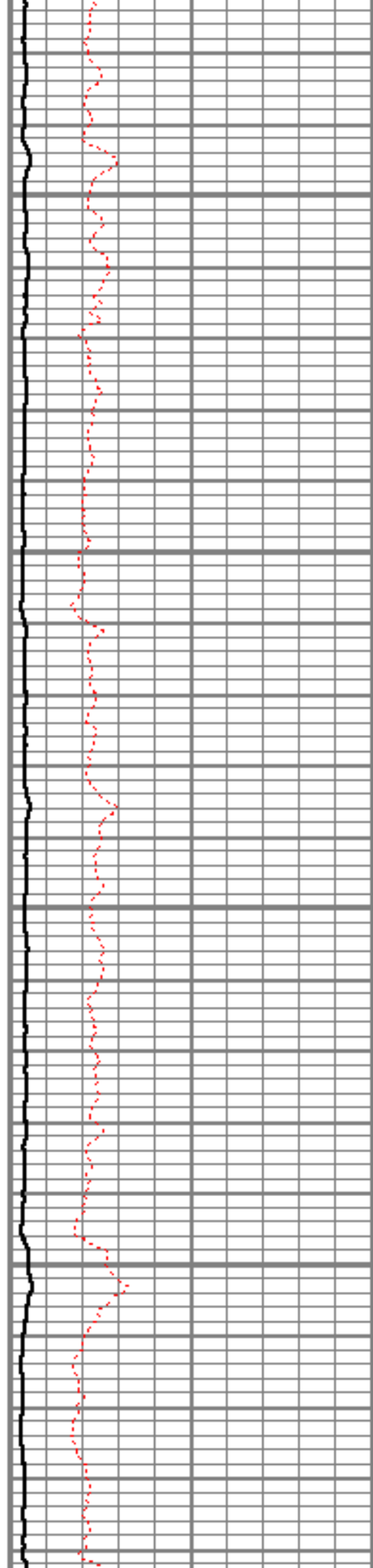


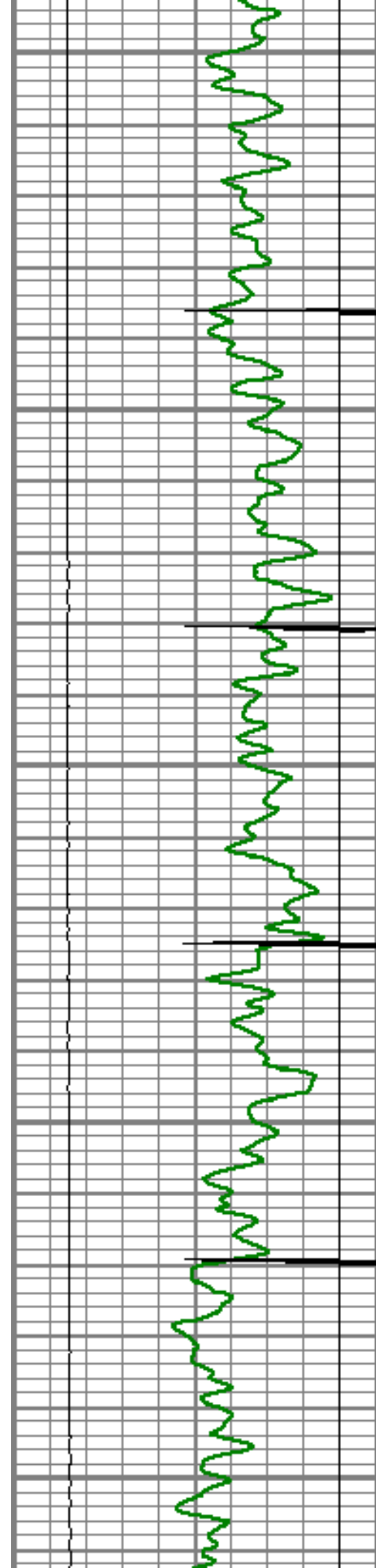
3850

3900

3950

4000





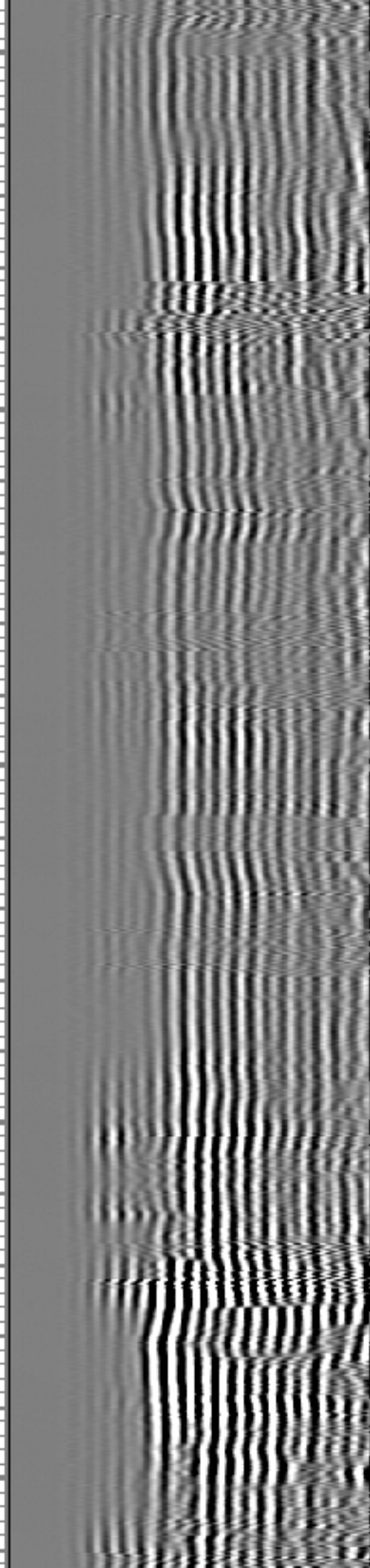
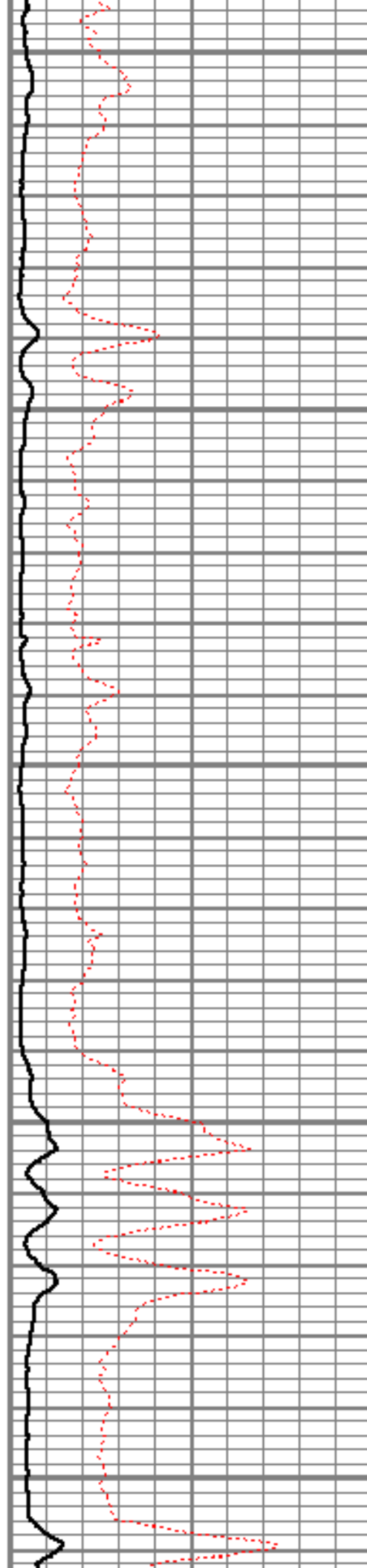
4050

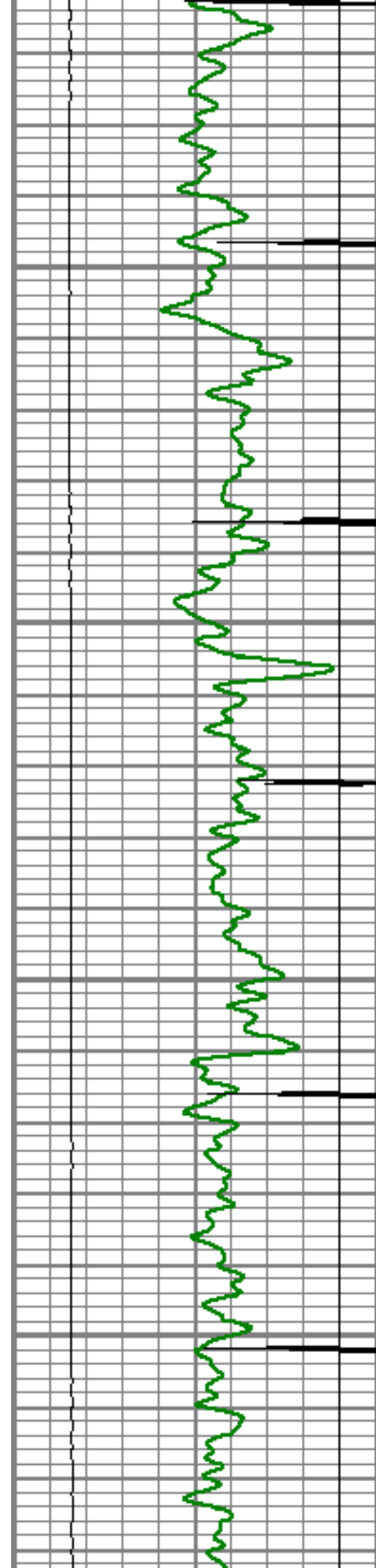
4100

4150

4200

4250



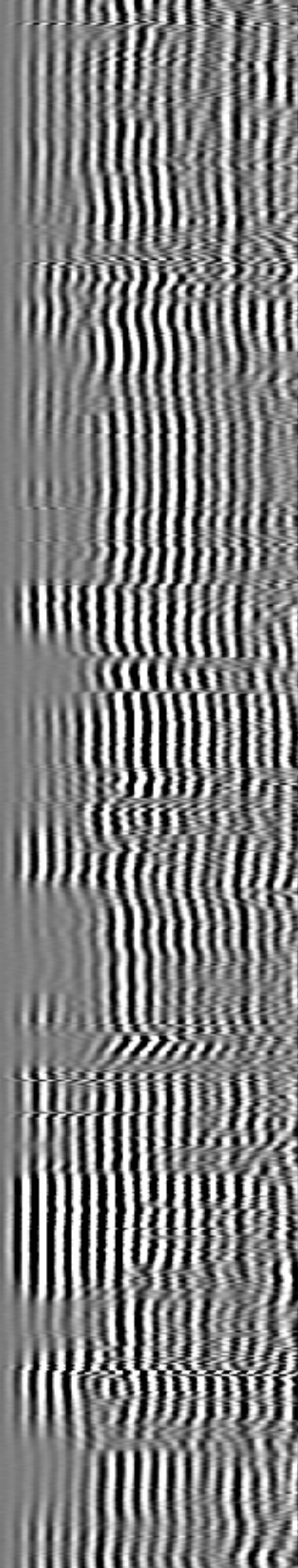
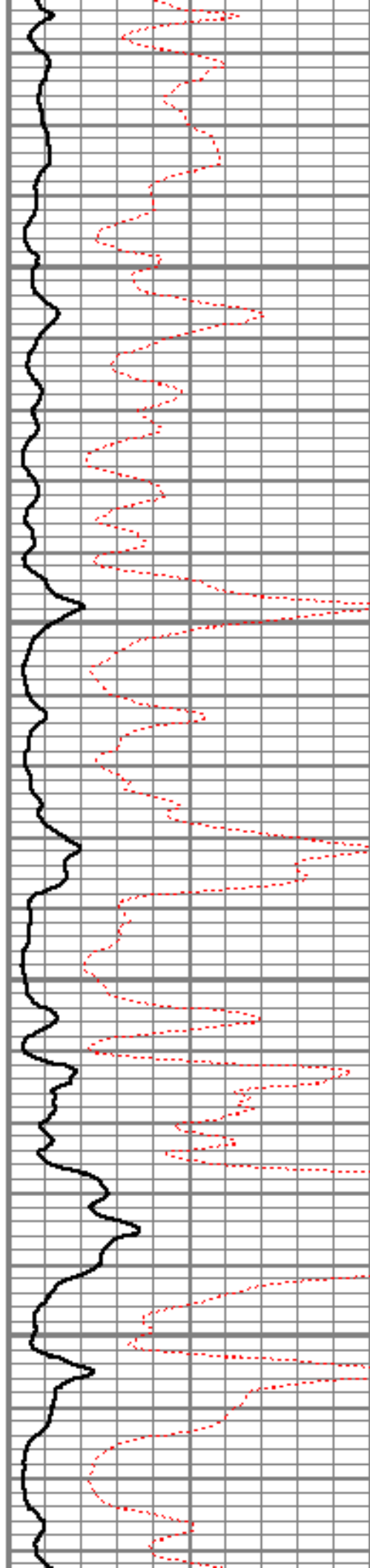


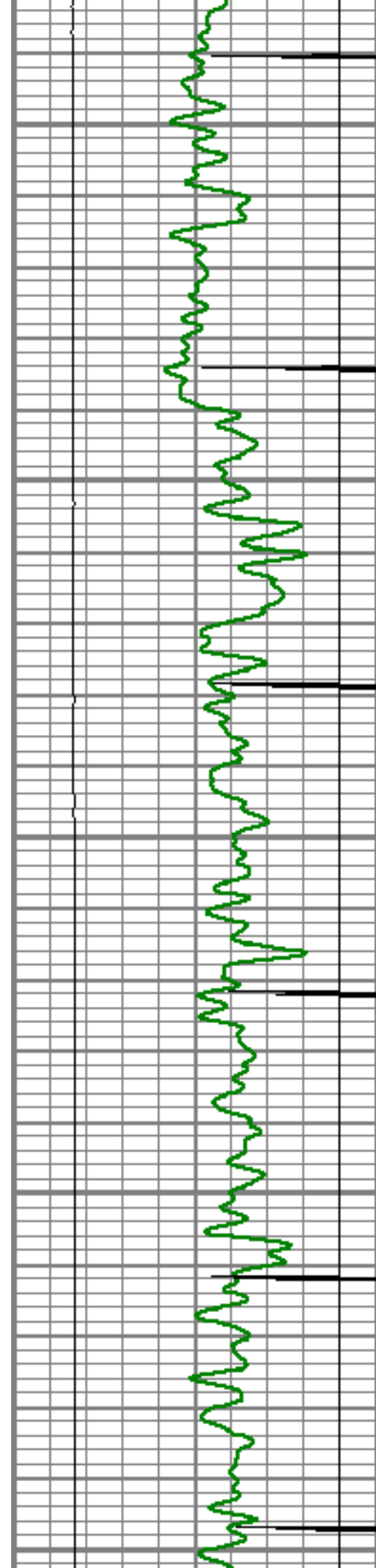
4300

4350

4400

4450





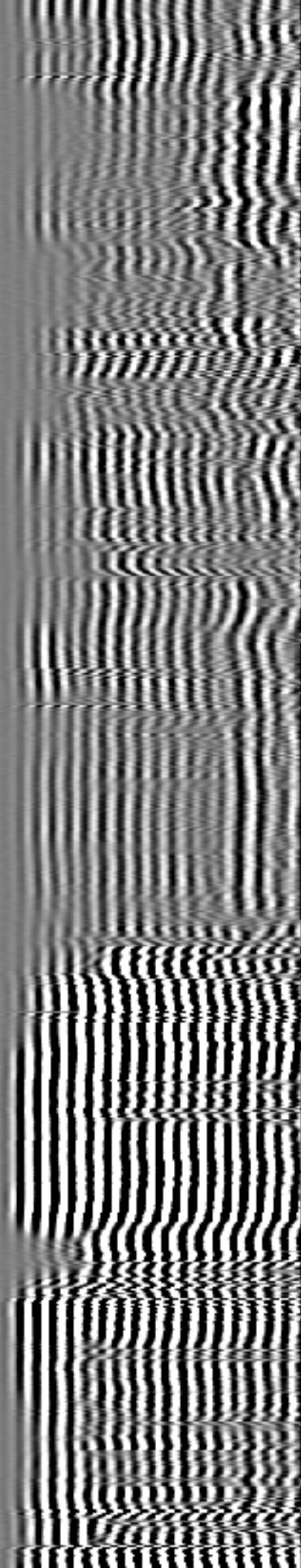
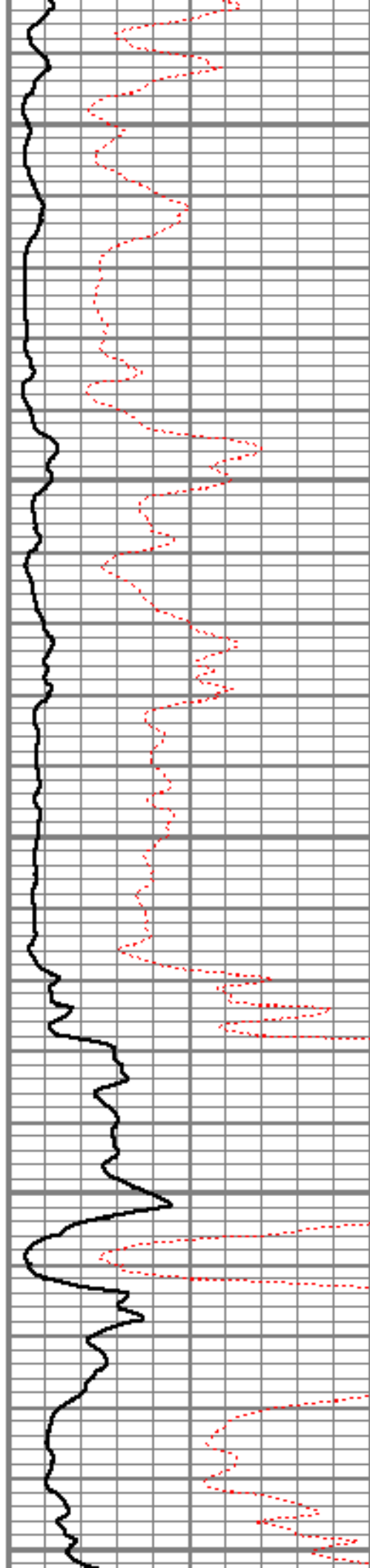
4500

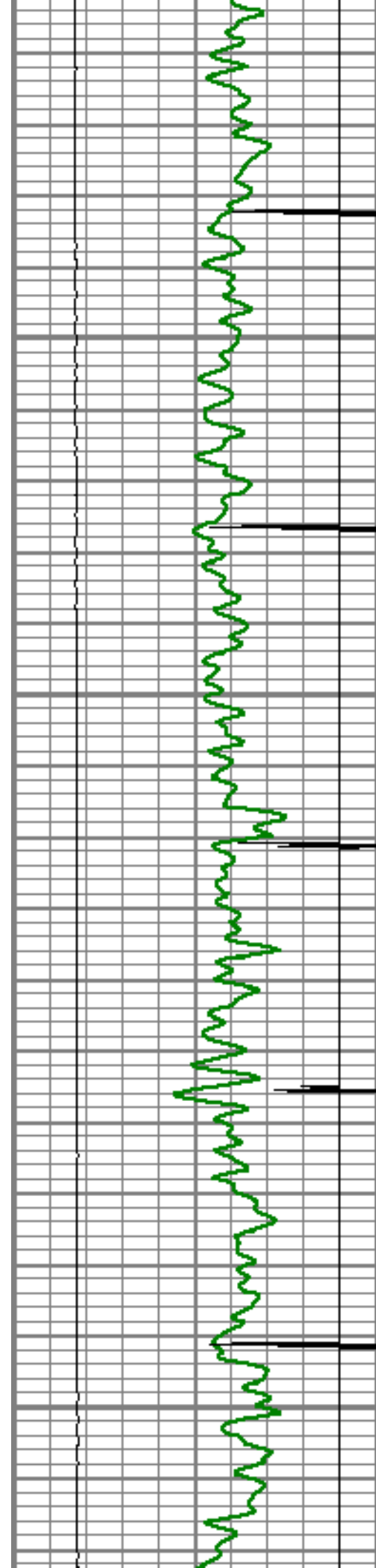
4550

4600

4650

4700



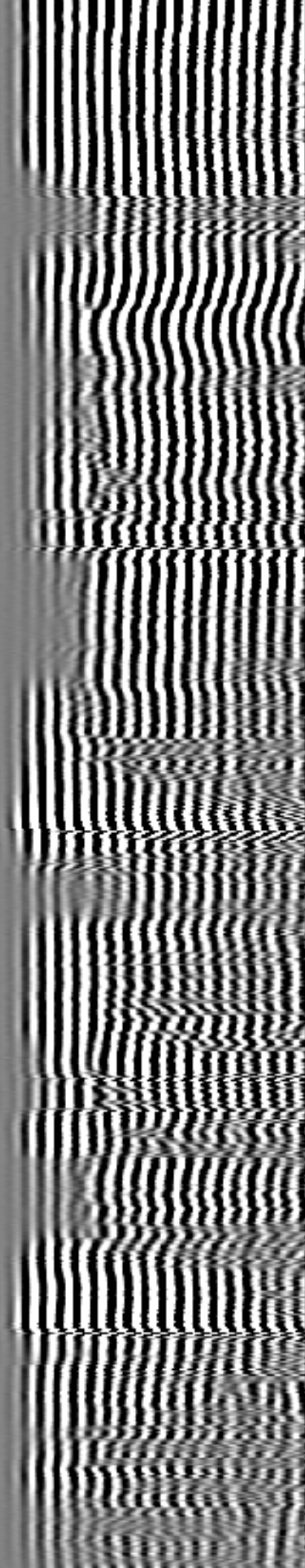
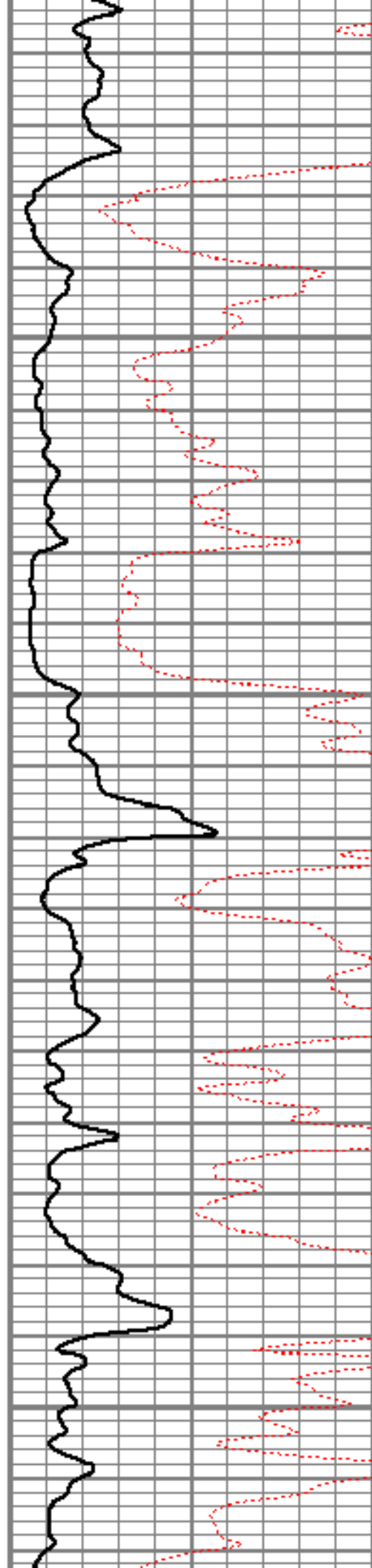


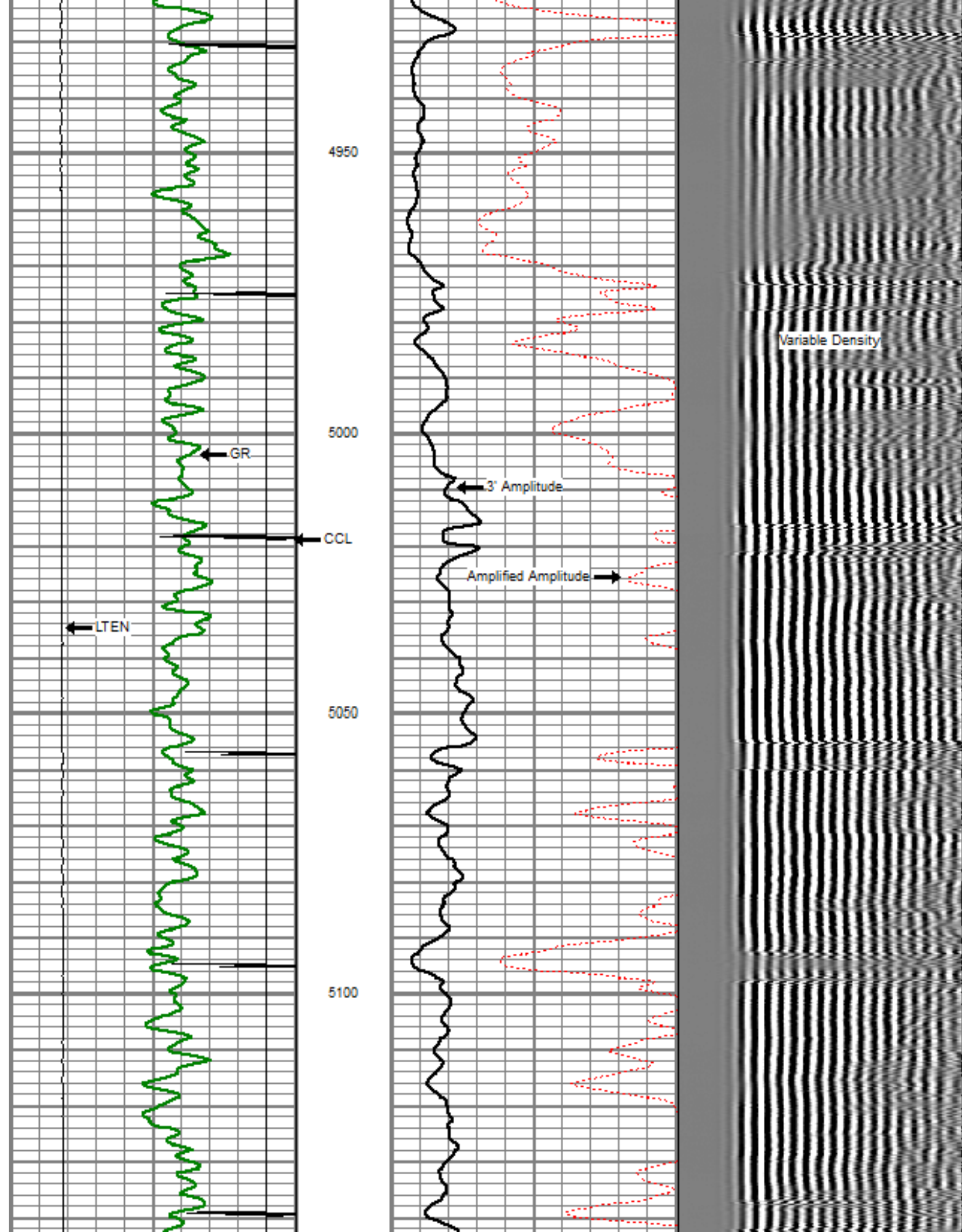
4750

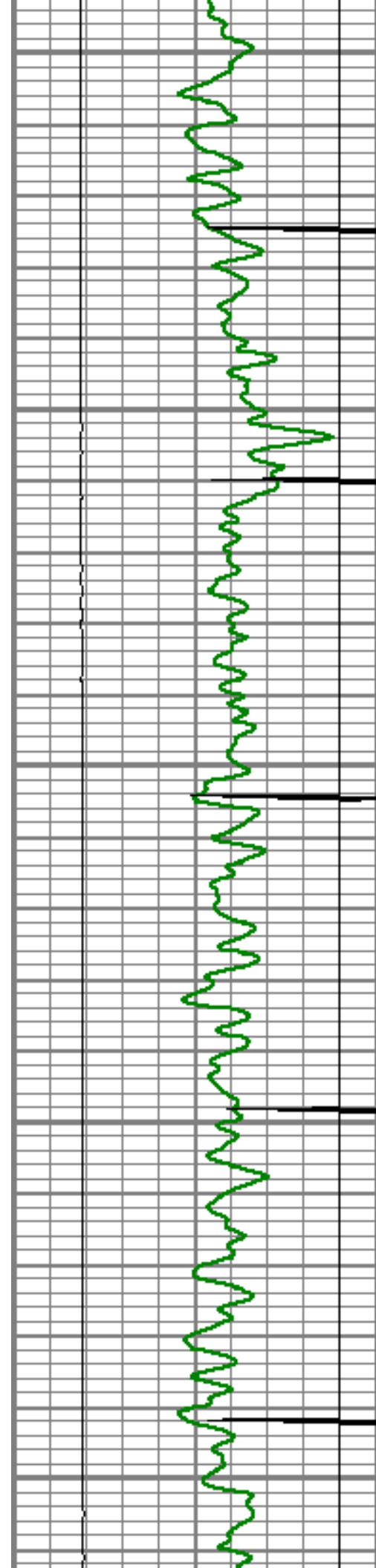
4800

4850

4900







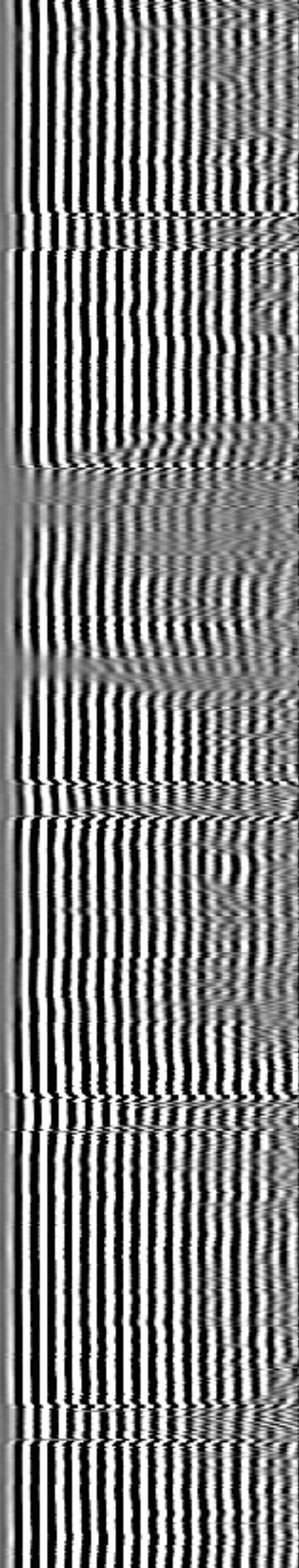
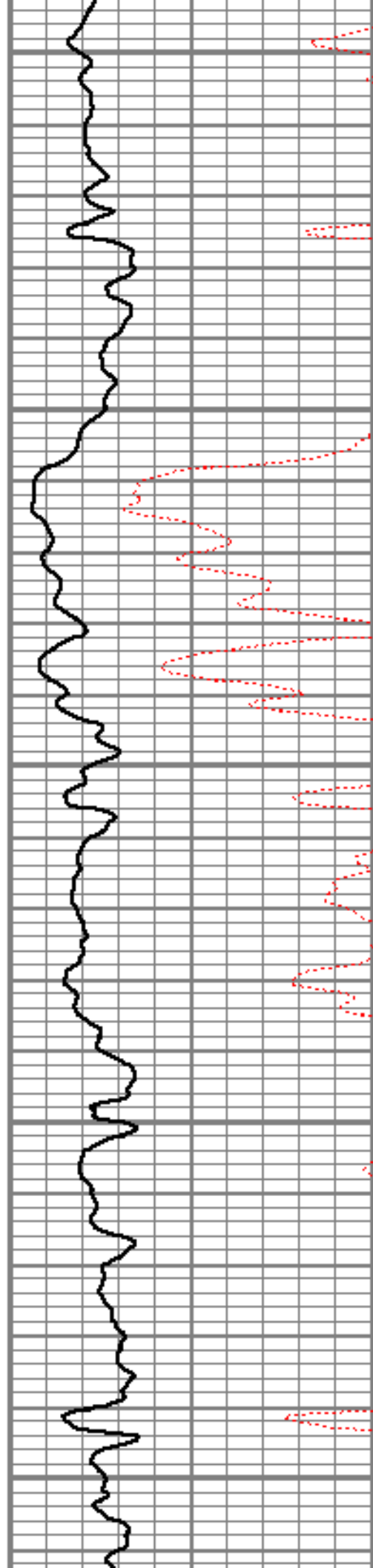
5150

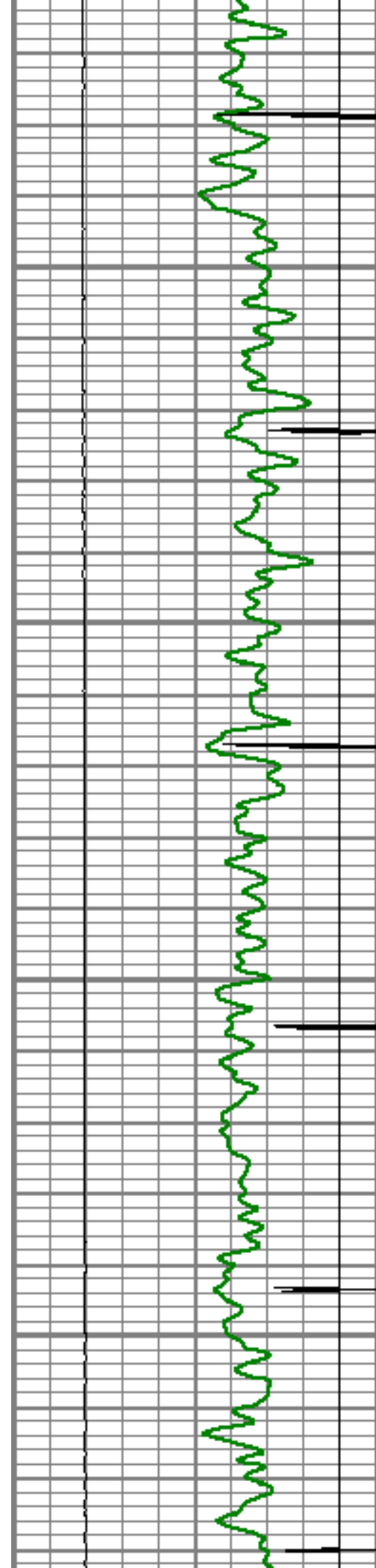
5200

5250

5300

5350



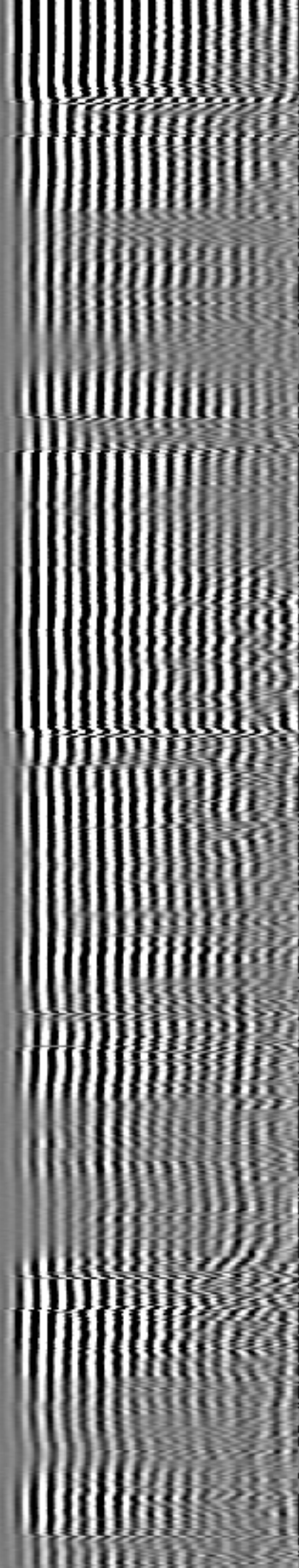
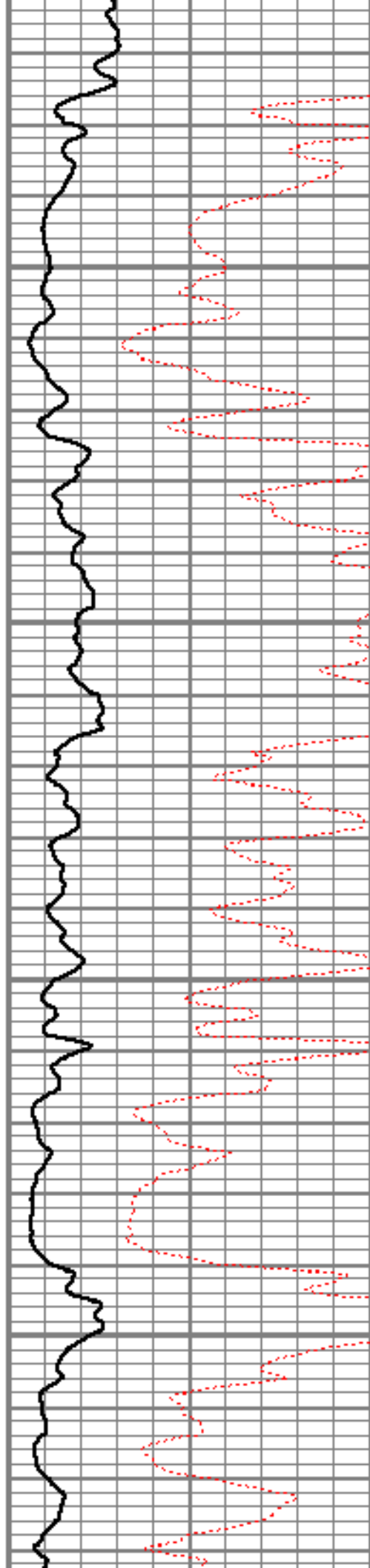


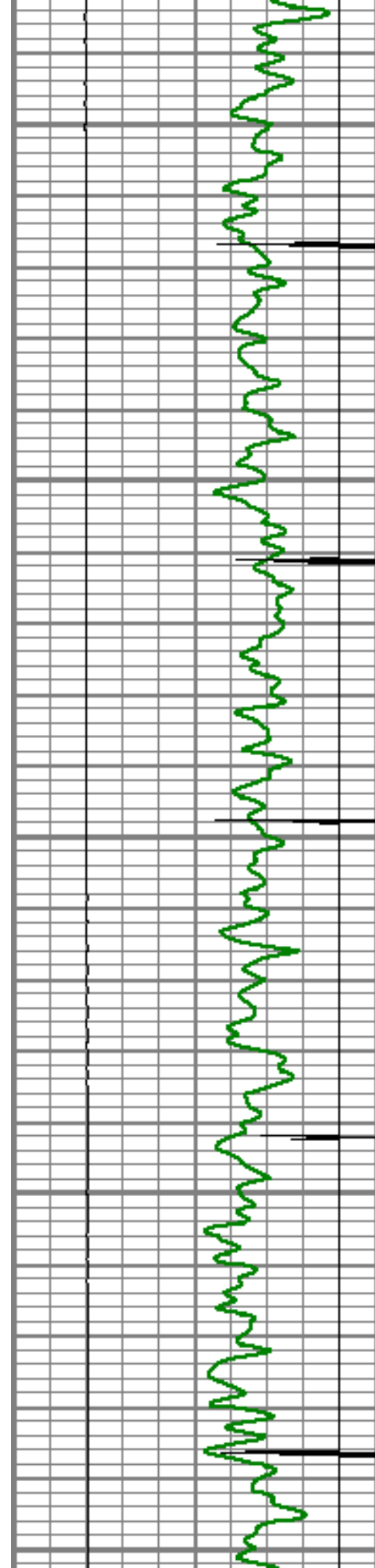
5400

5450

5500

5550





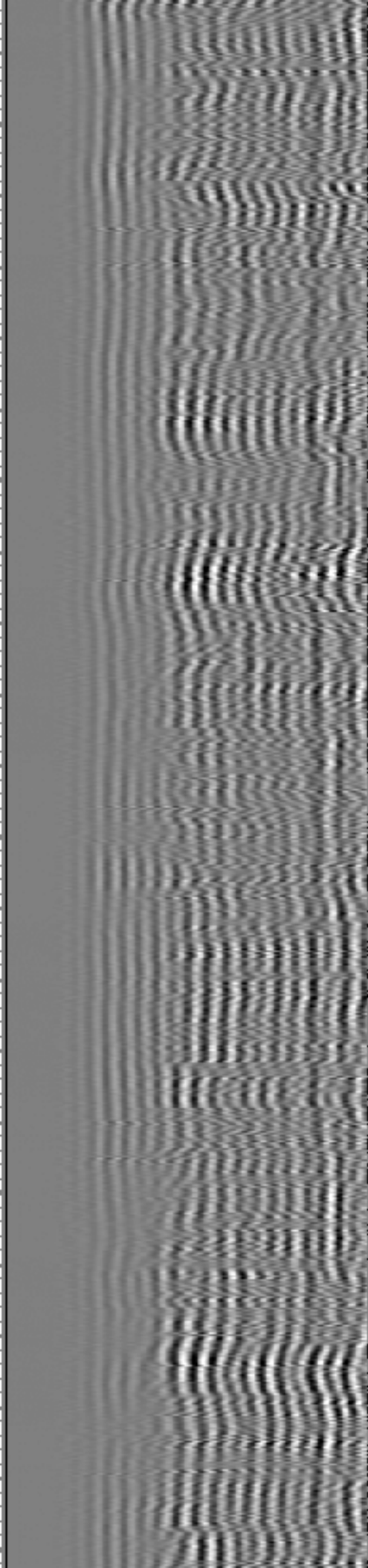
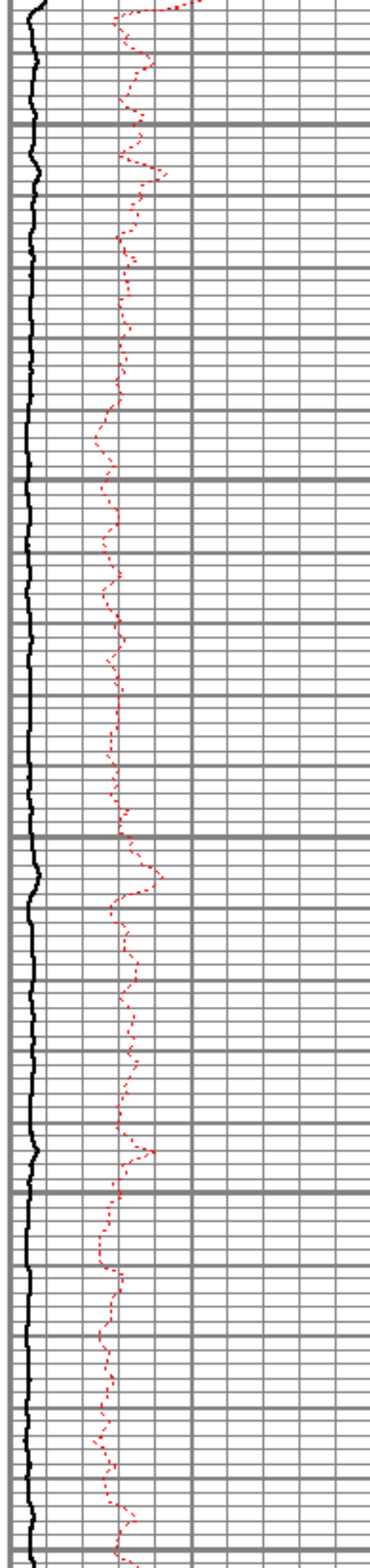
5600

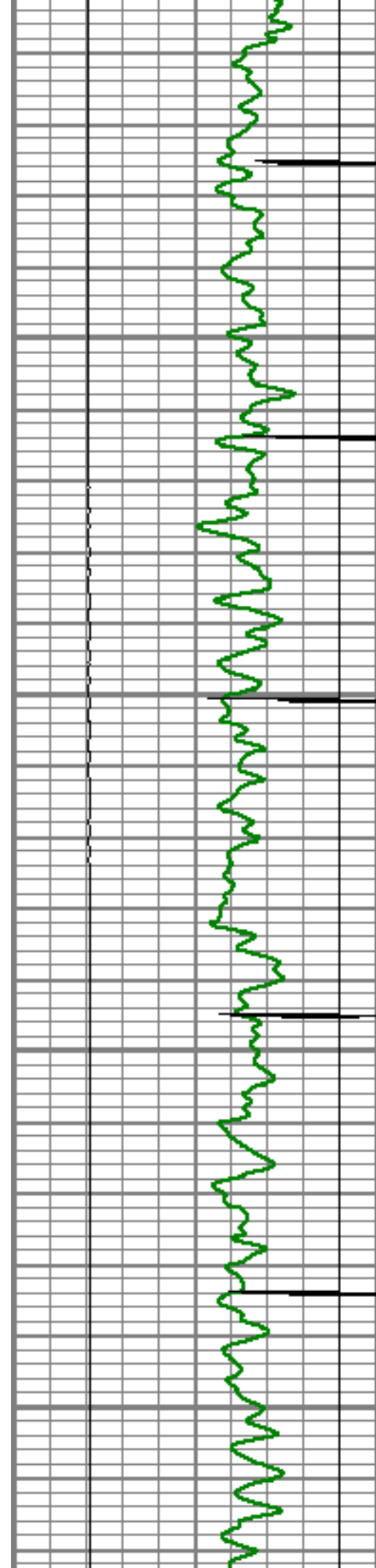
5650

5700

5750

5800



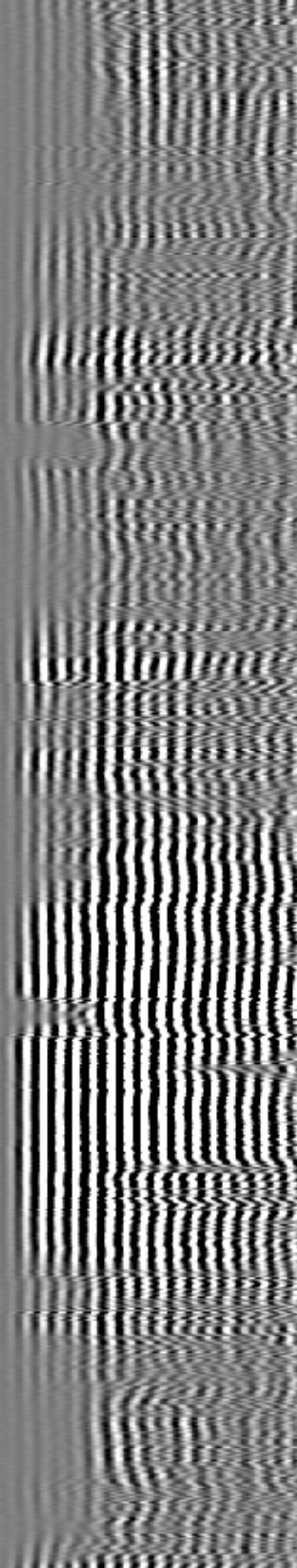
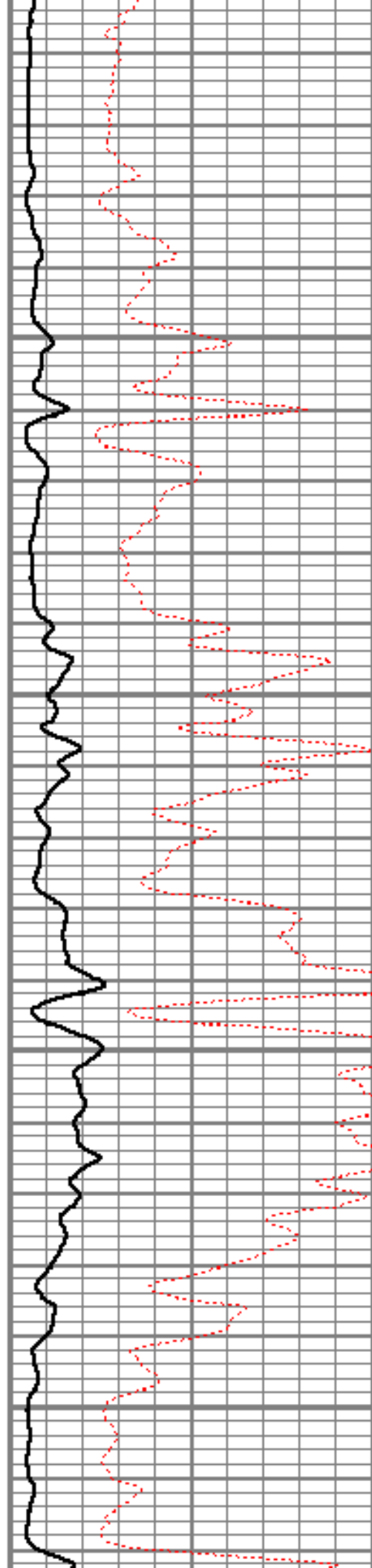


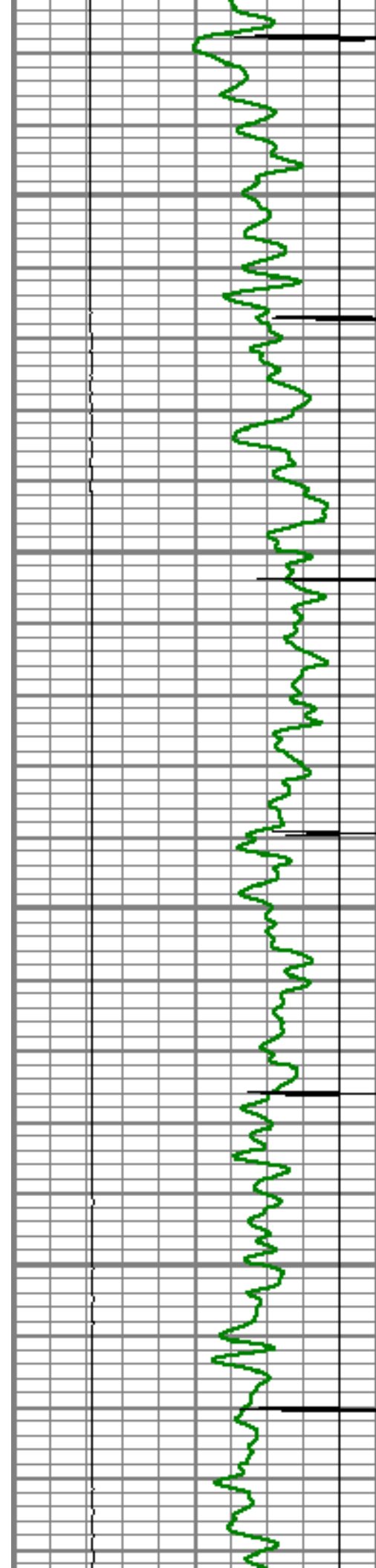
5850

5900

5950

6000



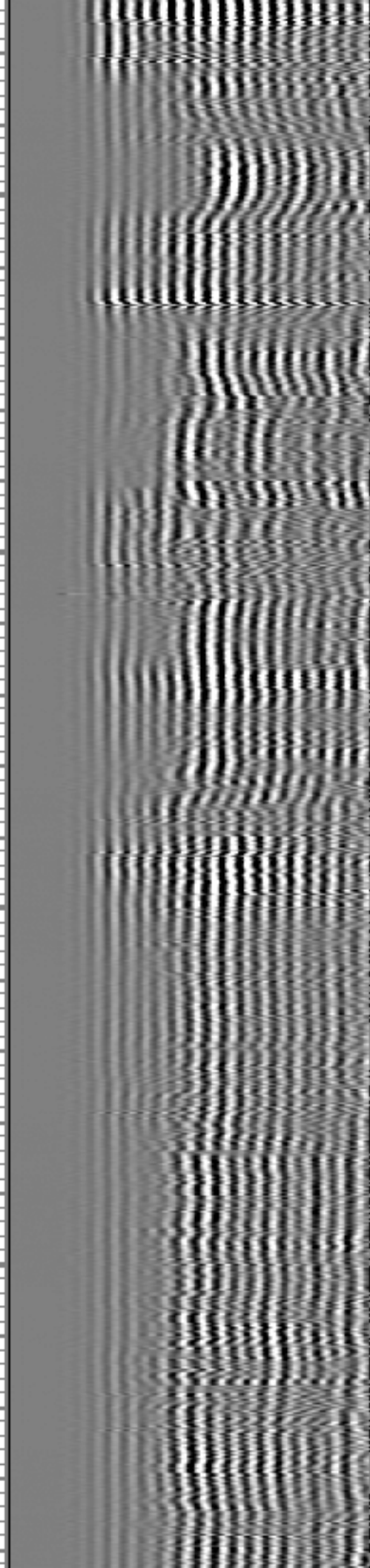
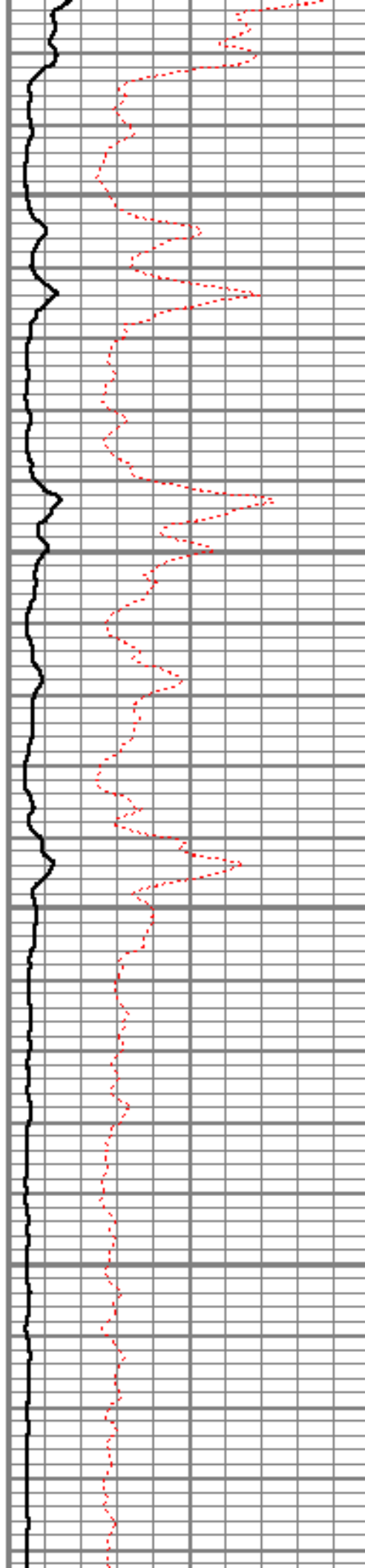


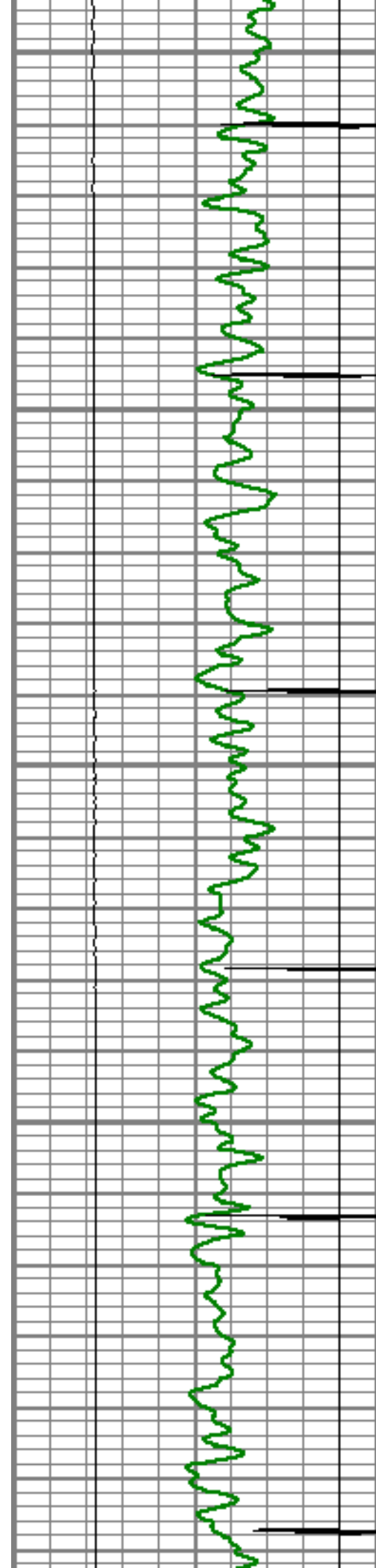
6050

6100

6150

6200





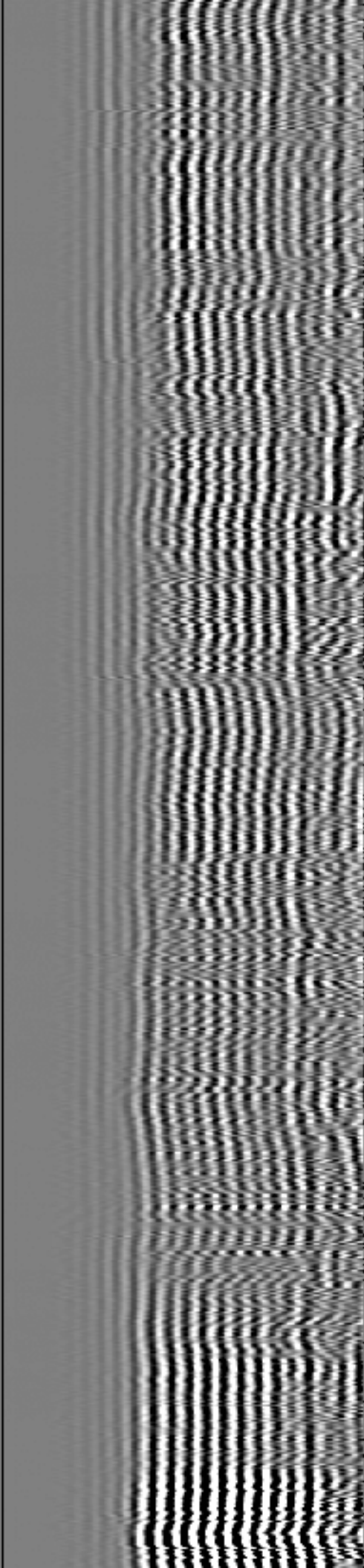
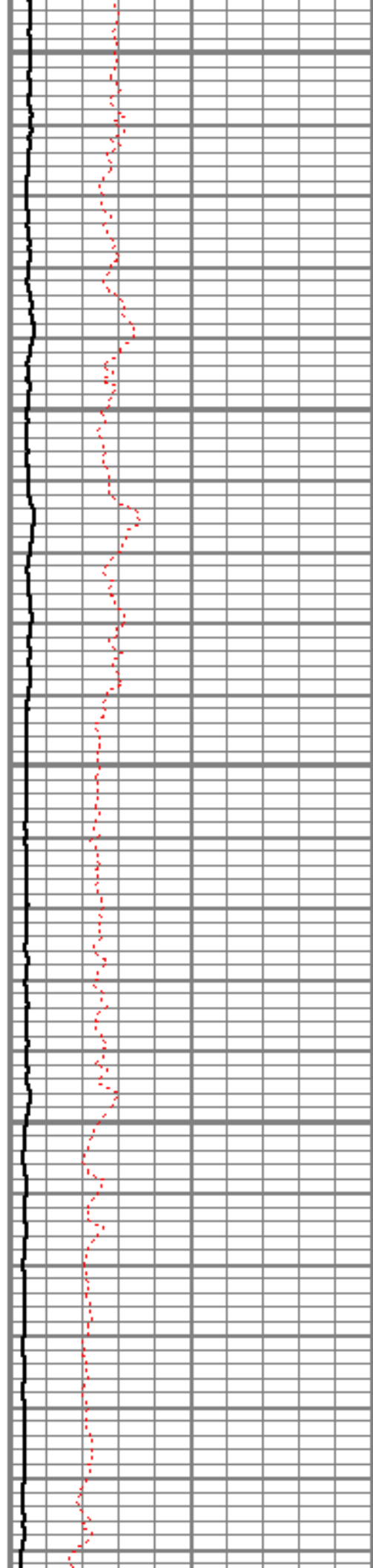
6250

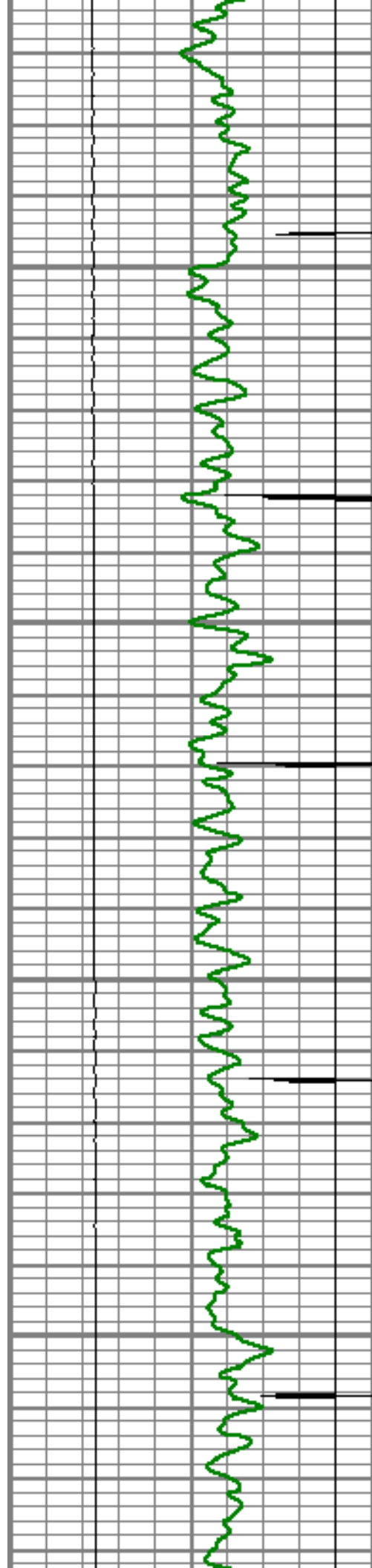
6300

6350

6400

6450



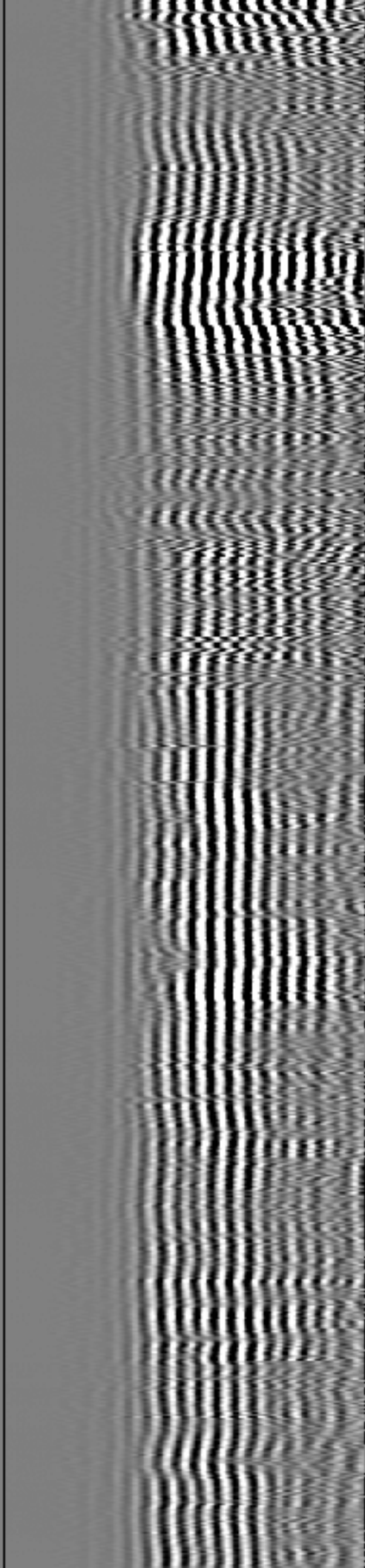
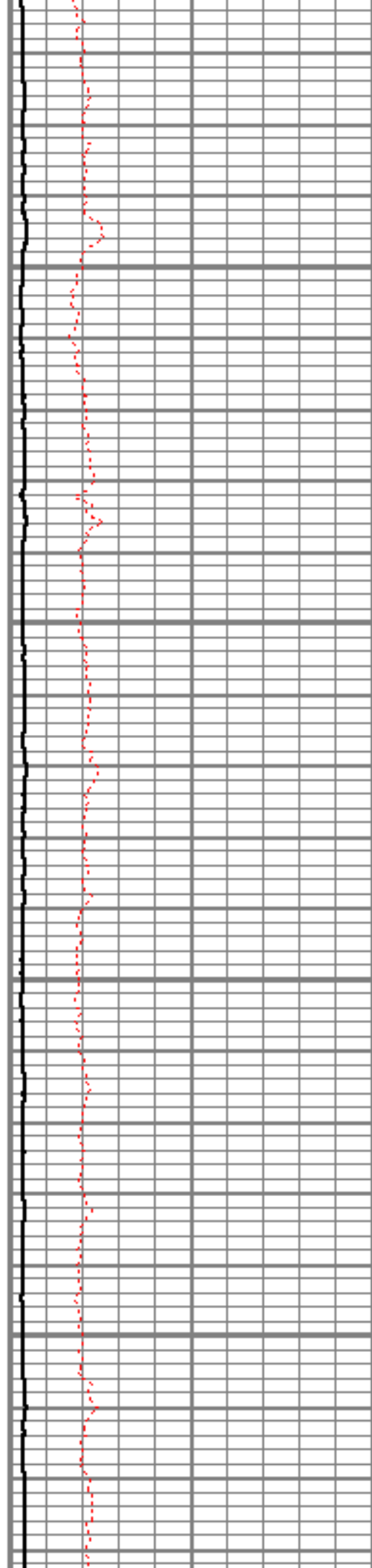


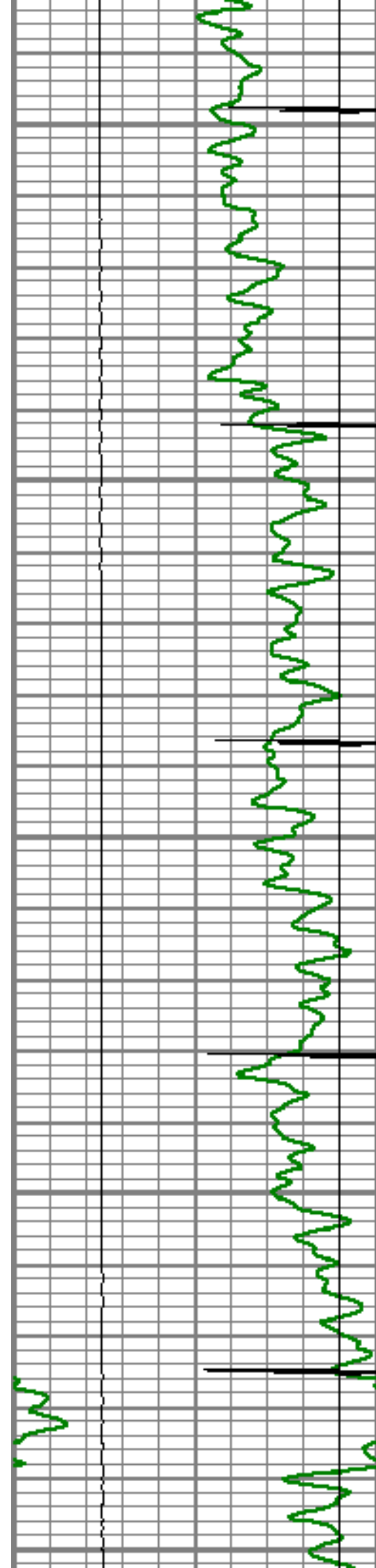
6500

6550

6600

6650





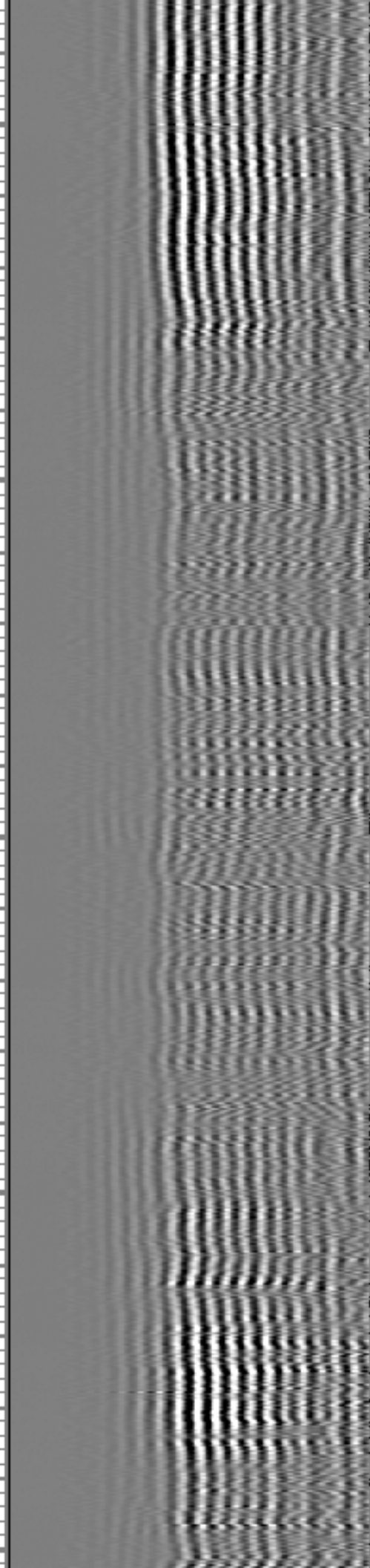
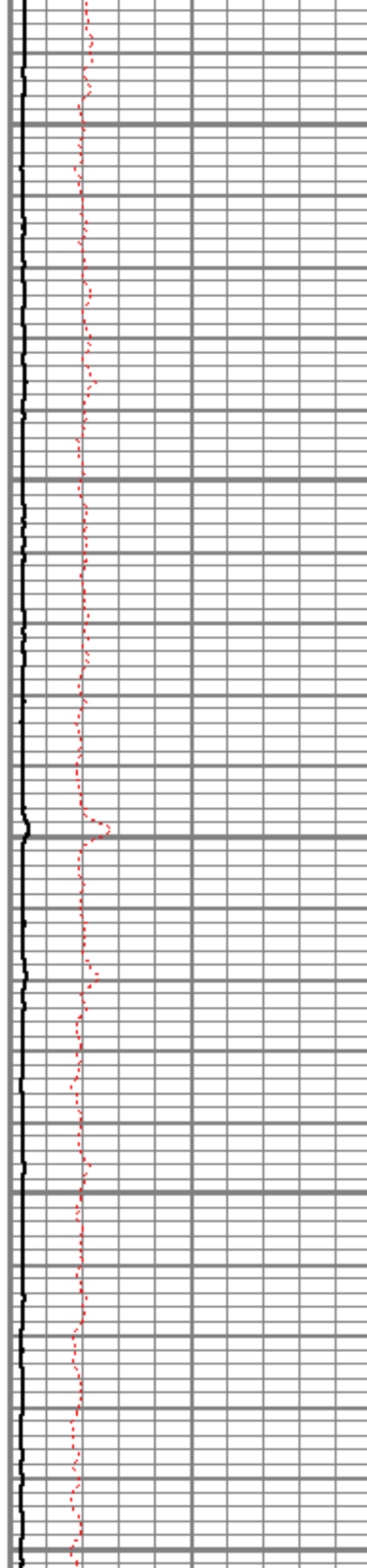
6700

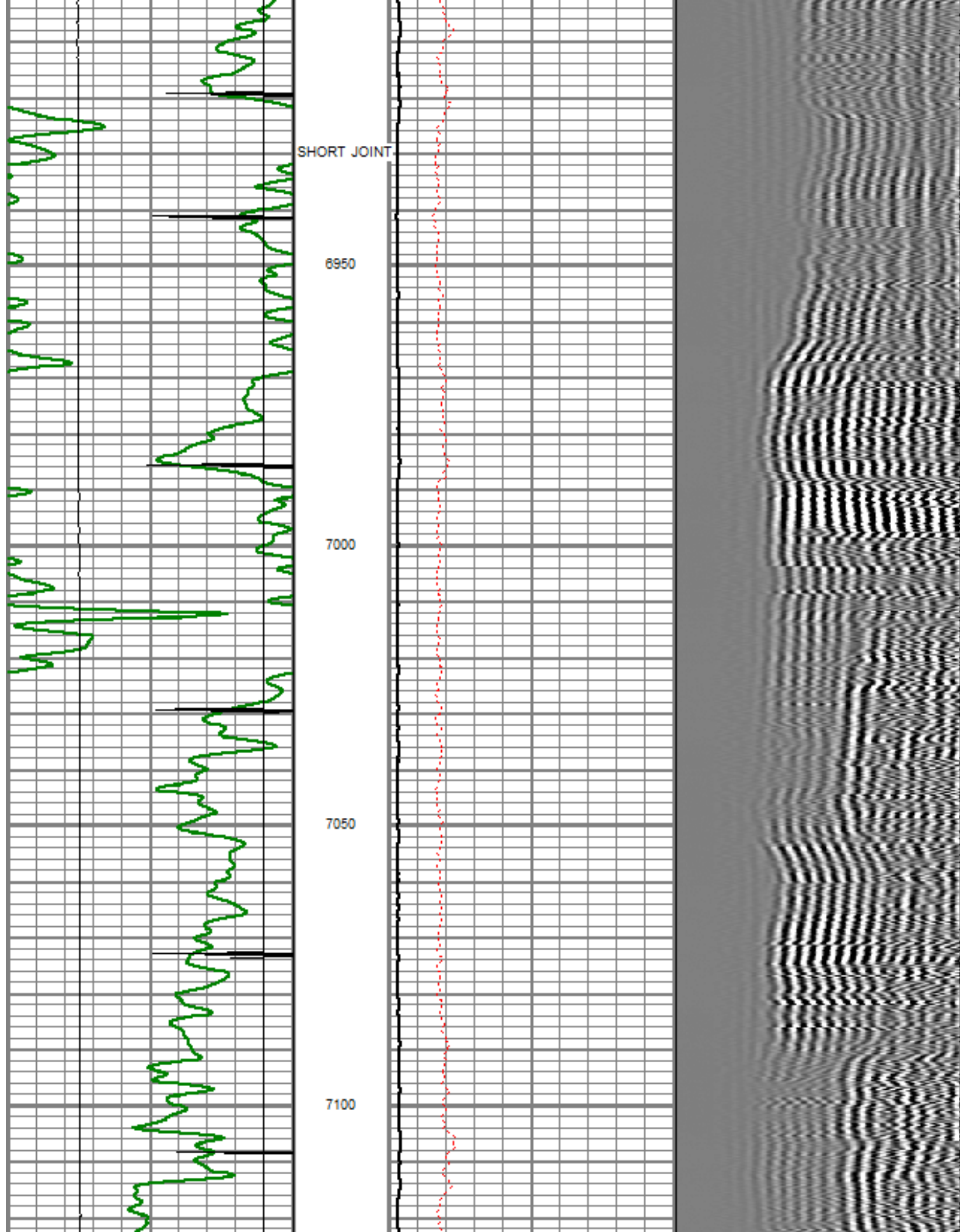
6750

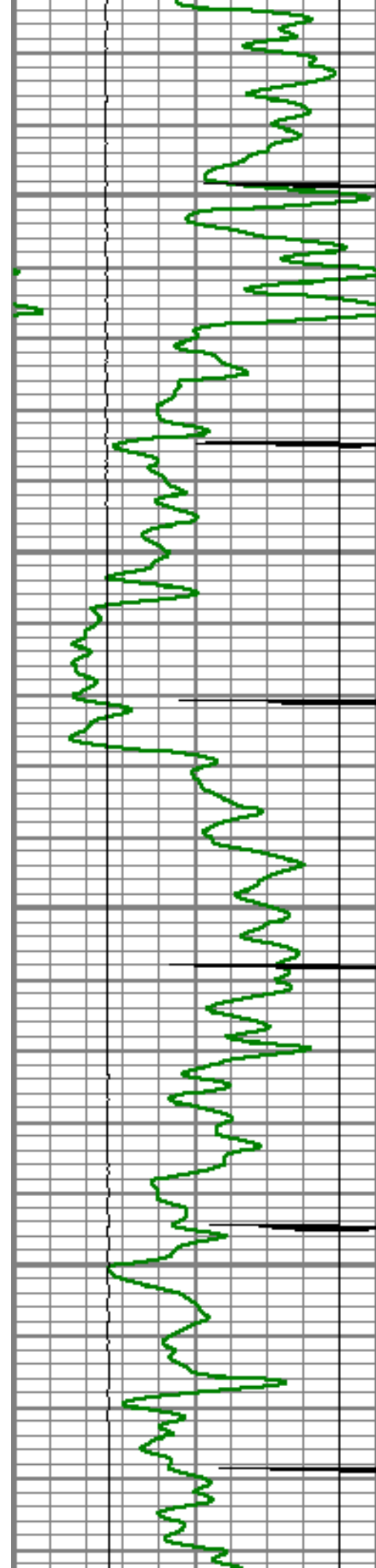
6800

6850

6900





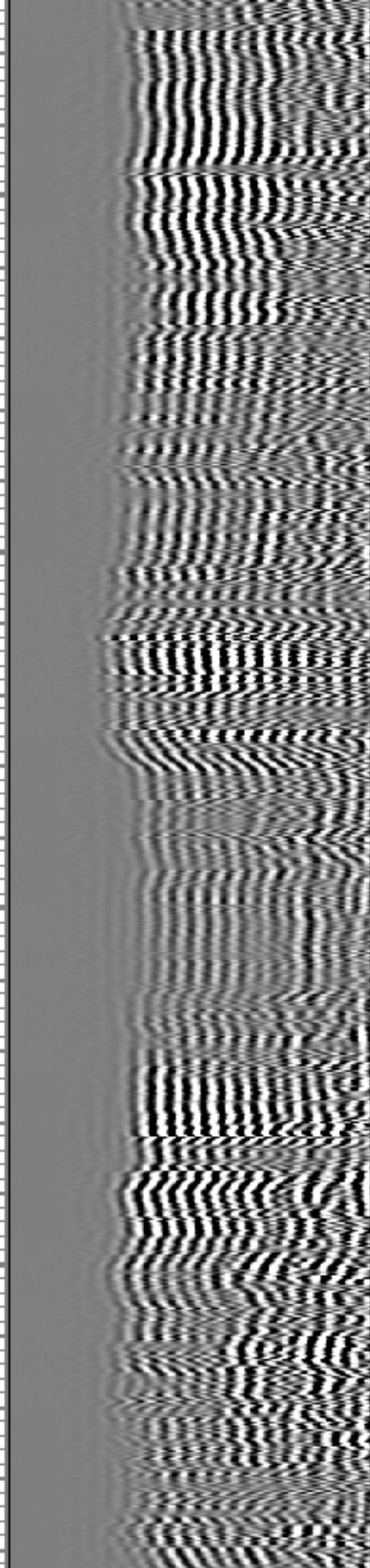
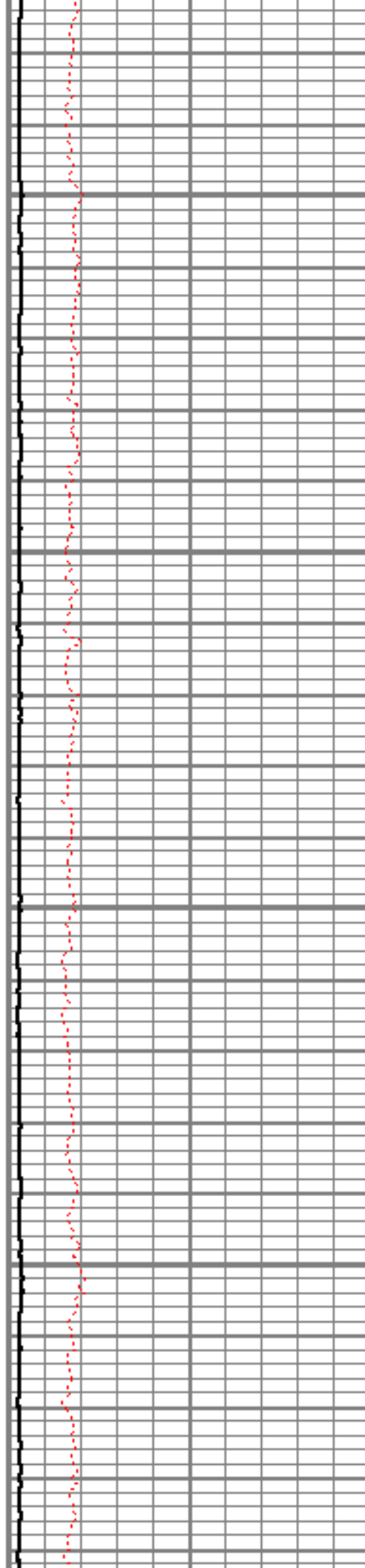


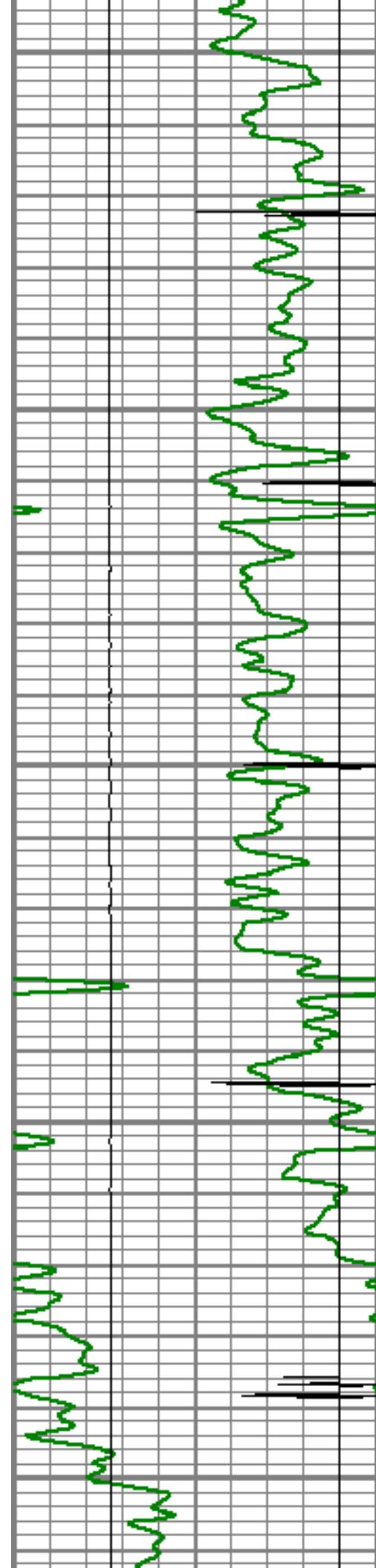
7150

7200

7250

7300





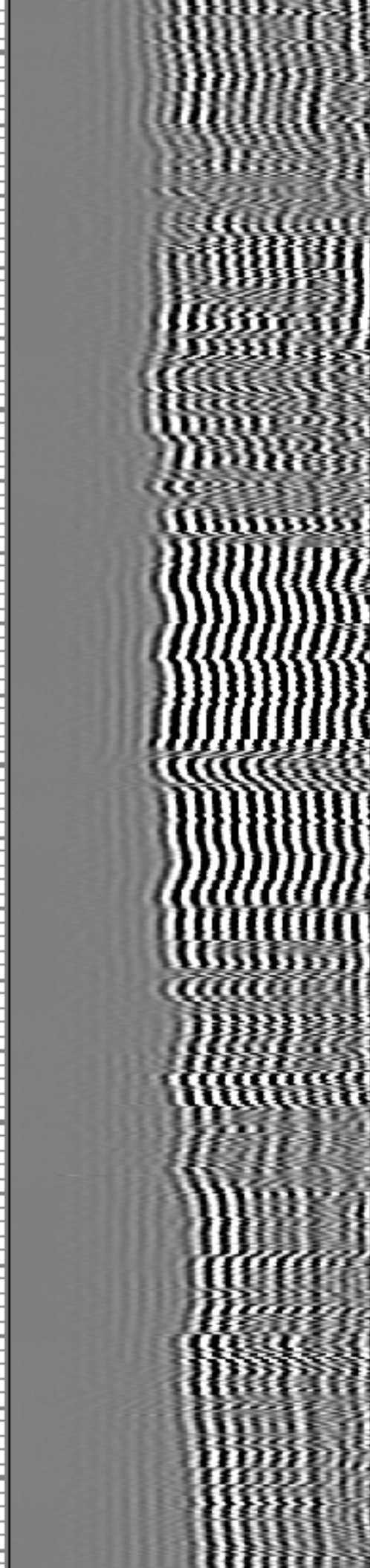
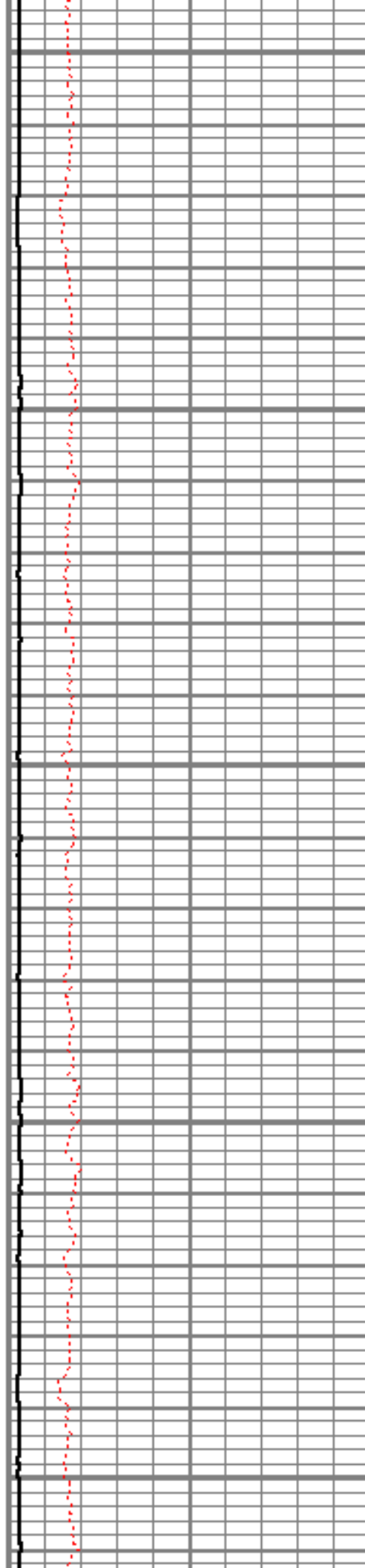
7350

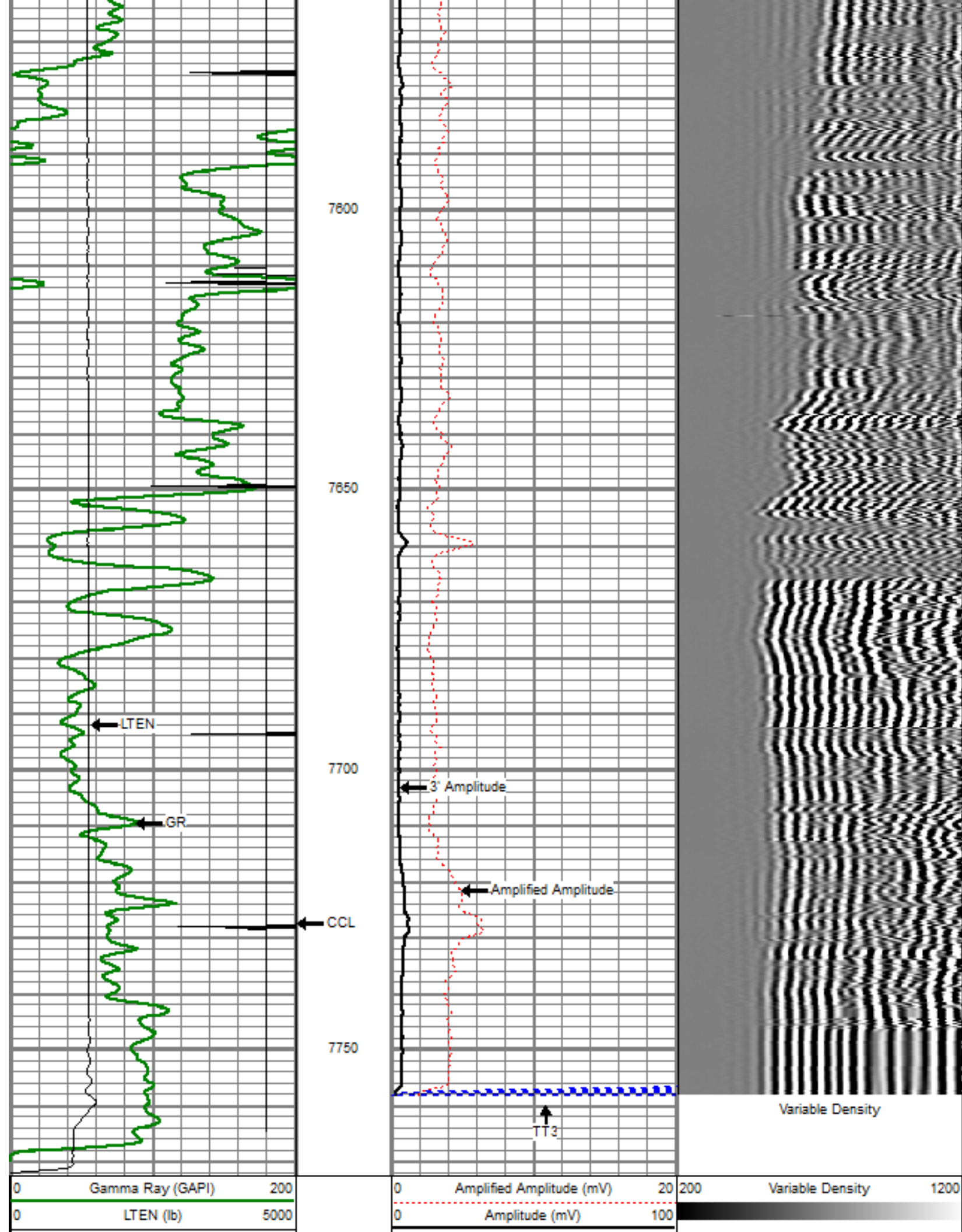
7400

7450


7500

7550





9	CCL	-1	0	TT3 (usec)	280

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
WVF3	14.54		titan Titan Cable Head Go Pin.	1.02	1.44	1.50
			Centralizer-Probe (CENT-PROBE-1) Probe Bowspring Centralizer	2.88	2.75	10.00
			CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.77.1) Probe 2.75" Dual Receiver Bond	28.77	2.75	60.00
			Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer	2.88	2.75	10.00
			GR-PROBE_GRCL (PRB_GRCL_275_014.54) Probe 2.75" 4 Channel Pulse	14.54	2.75	30.00
			TEMP-Comprobe (TEMP_CMPRB_1375_012.88) Positive pulse Temp tool	12.88	1.38	15.00
TEMP	0.17					

Dataset:	aristocrat angus 2-3.db: field/well/run1/pass3.1OH
Total Length:	22.98 ft
Total Weight:	126.50 lb
O.D.	2.75 in



Company	ENCANA OIL & GAS (USA) INC
Well	ARISTOCRAT ANGUS 2-3
Field	WATTENBERG
County	WELD
State	COLORADO