



**GAMMA RAY CCL
CEMENT BOND VDL**

Company: EXTRACTION OIL & GAS
 Well: DIAMOND VALLEY EAST #4
 Field: WATTENBERG
 County: WELD
 State: COLO

Location: API #: 05-123-38499
 SEC 23 TWP 6N RGE 67W
 SWSW
 Elevation: 4769
 Other Services: K.B: 4792, D.F., G.L.: 4769

Date: MAY-2-2019
 Run Number: ONE
 Depth Driller: 11911
 Depth Logger: 6971
 Bottom Logged Interval: 6970
 Top Log Interval: SURFACE
 Open Hole Size: 8 3/4
 Type Fluid: WATER
 Density / Viscosity: 8.344 PPG
 Max. Recorded Temp.: NA
 Estimated Cement Top: SEE LOG
 Time Well Ready: ROA
 Time Logger on Bottom: 3:00
 Equipment Number: 72
 Location: STERLING, CO
 Recorded By: KYLE GIRDLER
 Witnessed By: JOE WEBSTER

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record							
Surface String		9 5/8		36		Top surface	Bottom 560'
Prot. String							
Production String		7		26		surface	7650
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

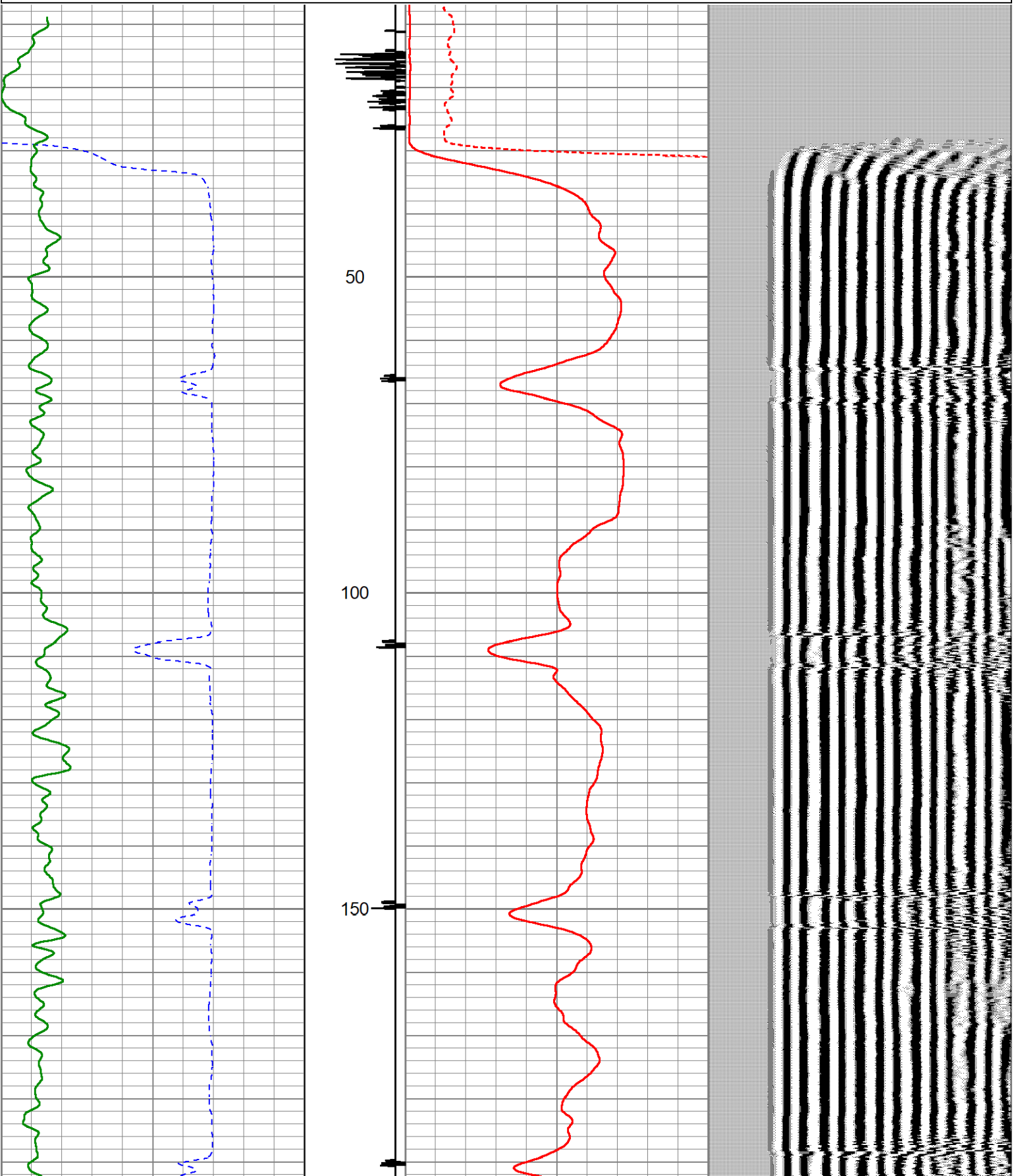
THANK YOU FOR CHOOSING KLX ENERGY SERVICES
 LOGGED UNDER 0 INDUCED PRESSURE

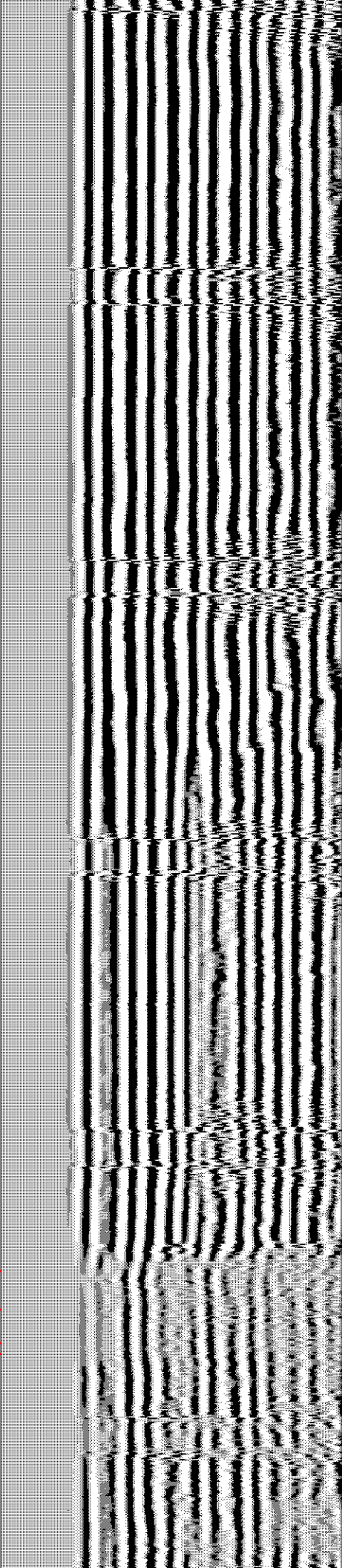
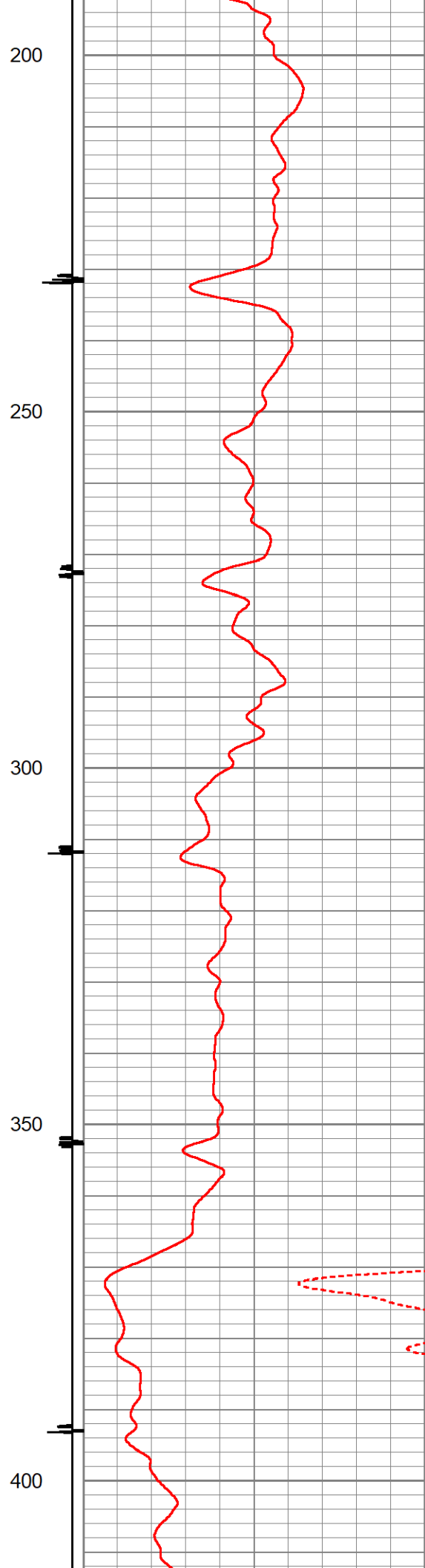
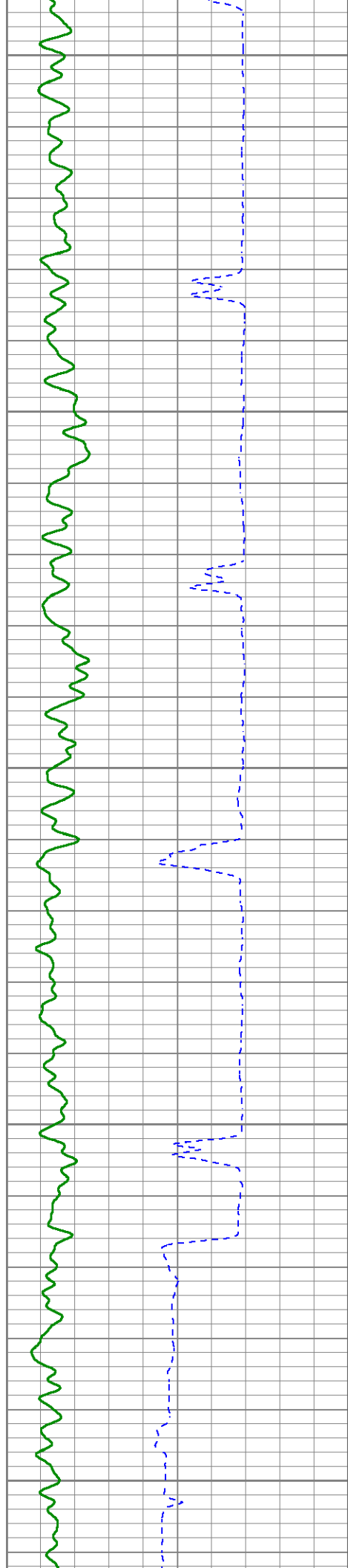


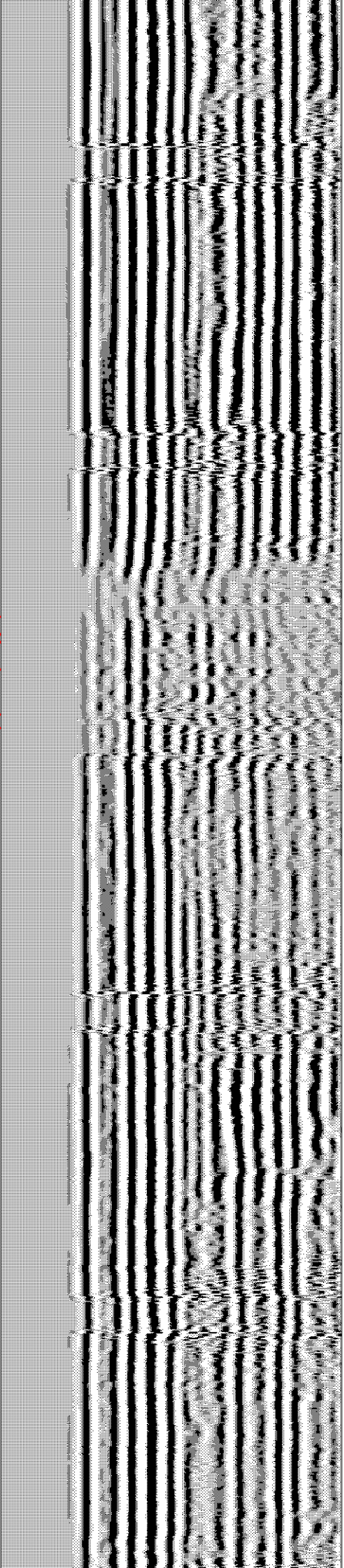
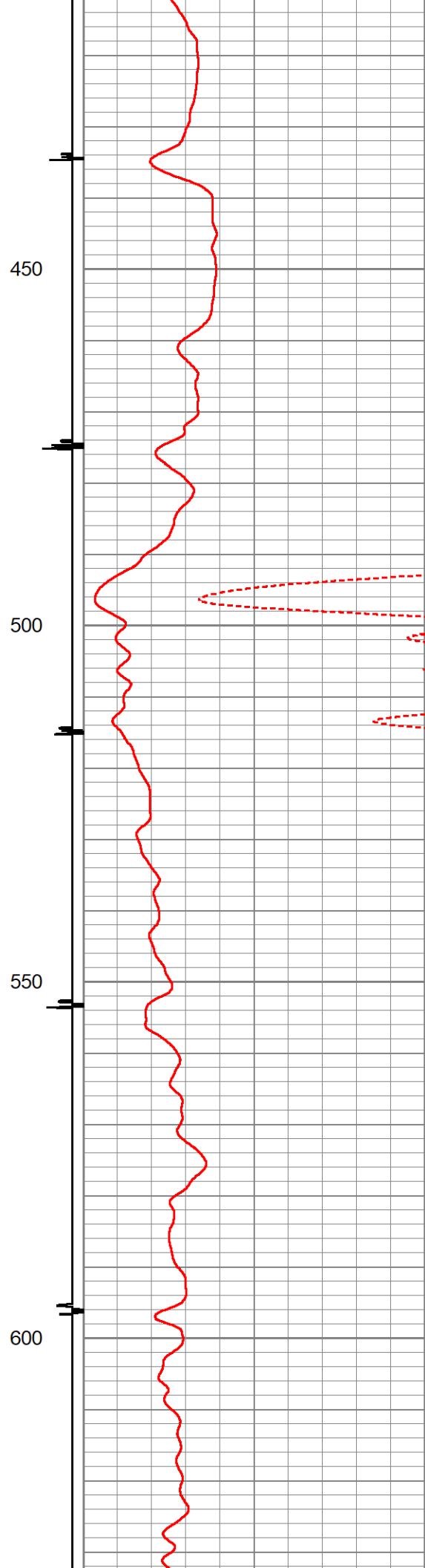
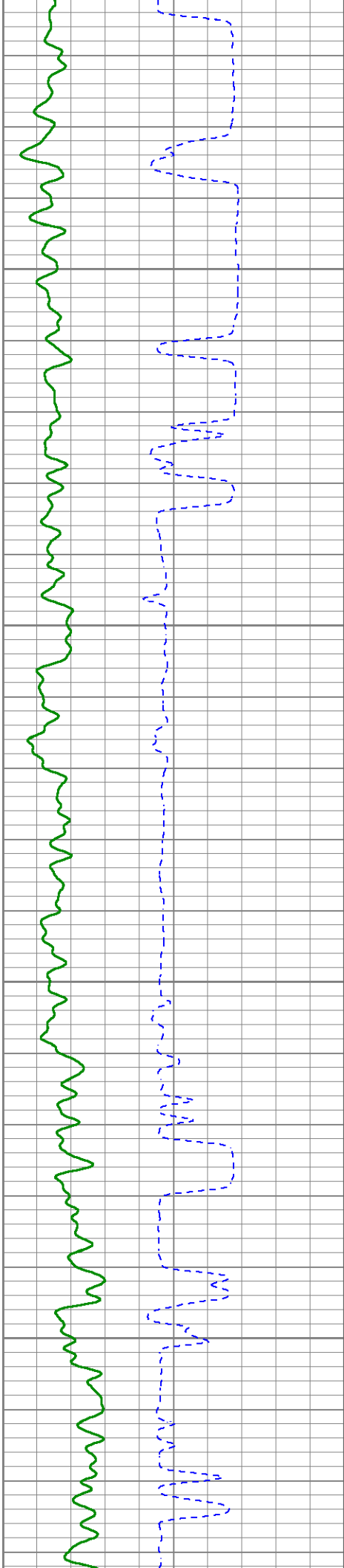
MAIN PASS 7"

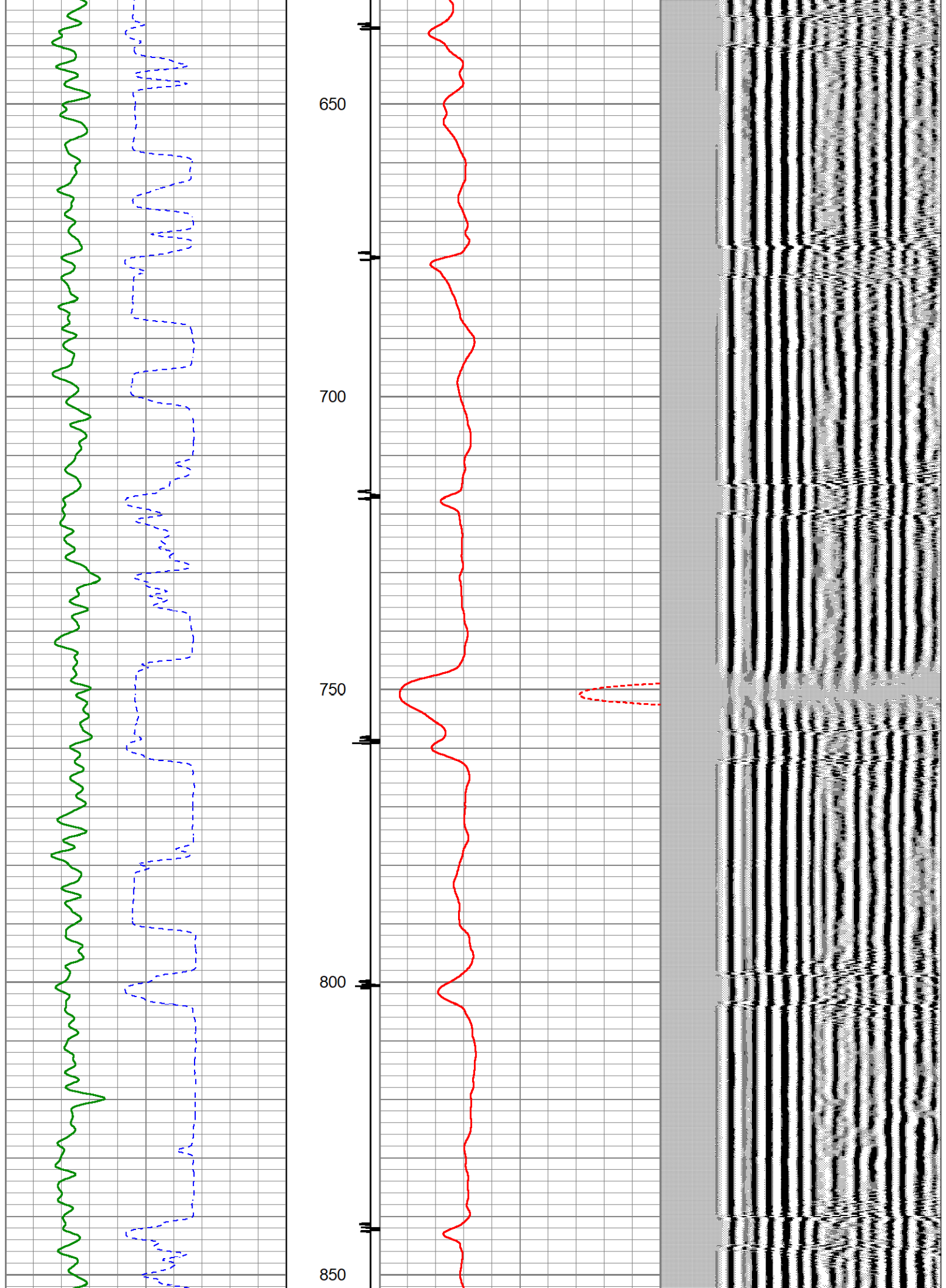
Database File diamond valley east #4.db
 Dataset Pathname pass4
 Presentation Format cbl_kggw
 Dataset Creation Thu May 02 14:56:58 2019
 Charted by Depth in Feet scaled 1:240

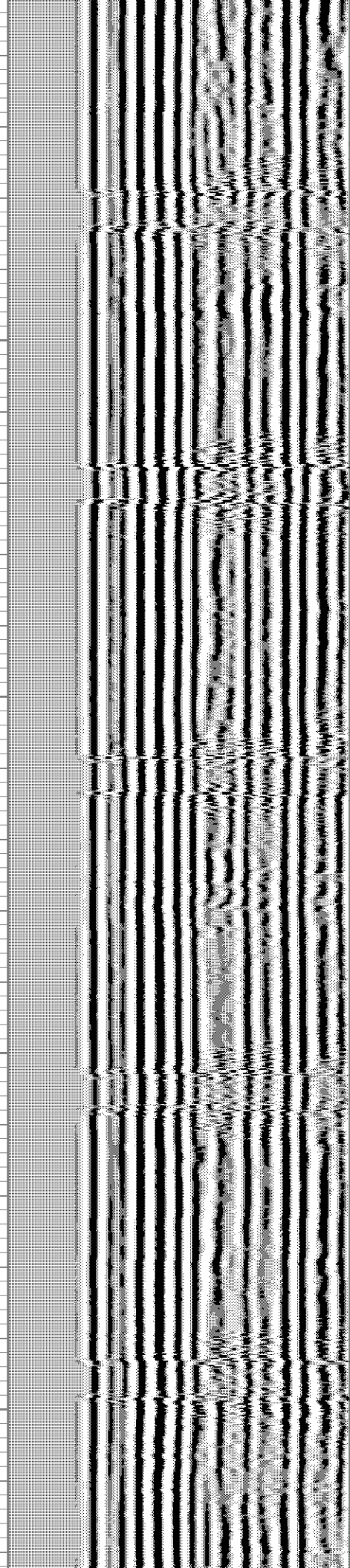
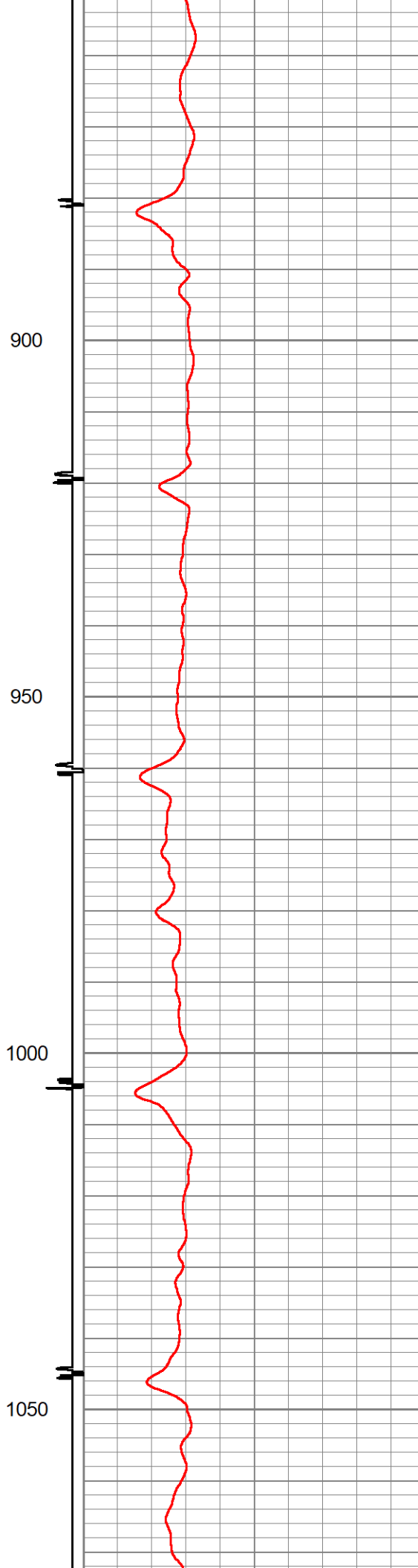
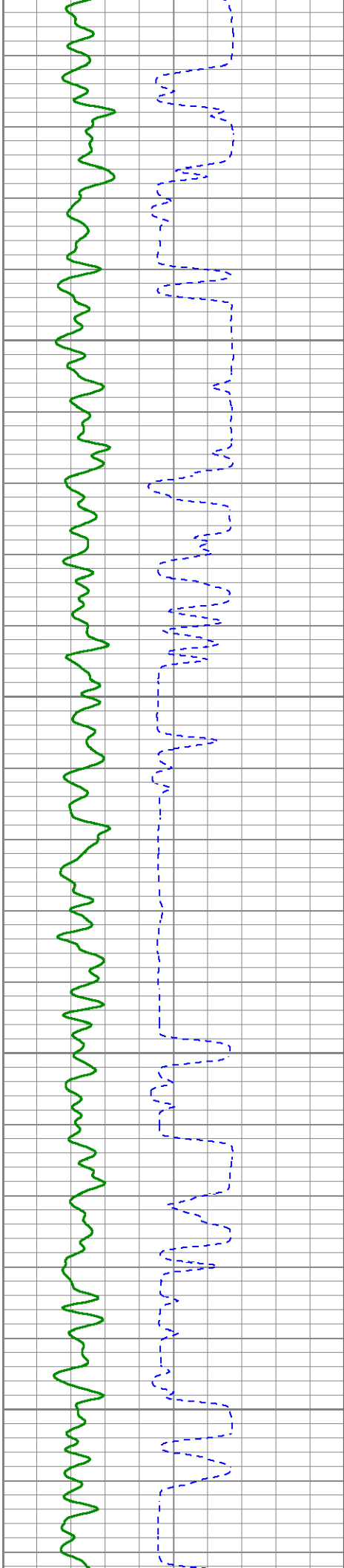
420	TRAVEL TIME (usec)	220	Collar Location	0	AMP AMPLITUDE (mV)	10	200	VDL (usec)	1200
0	Gamma Ray (GAPI)	150	9	-1	0	100			
0	Line Speed (ft/min)	100							

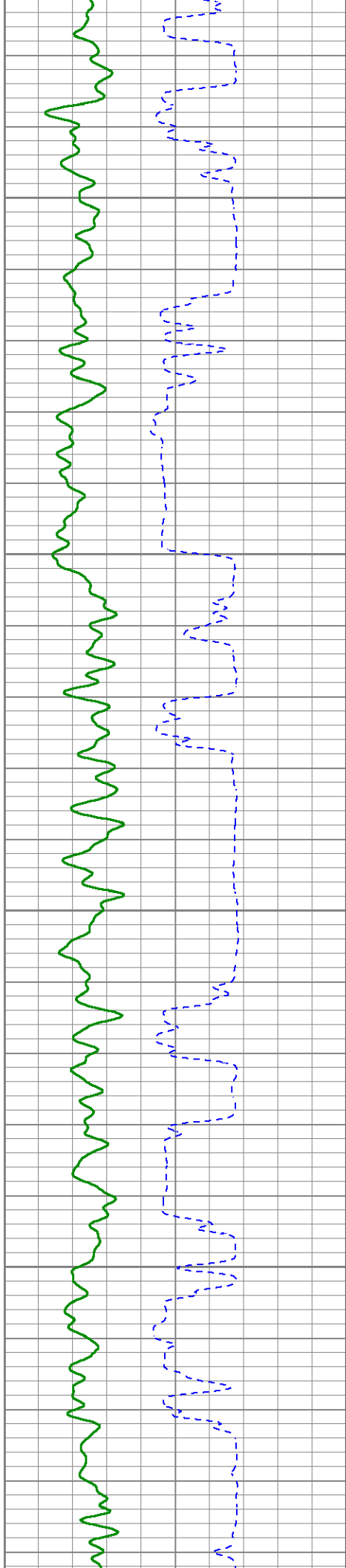










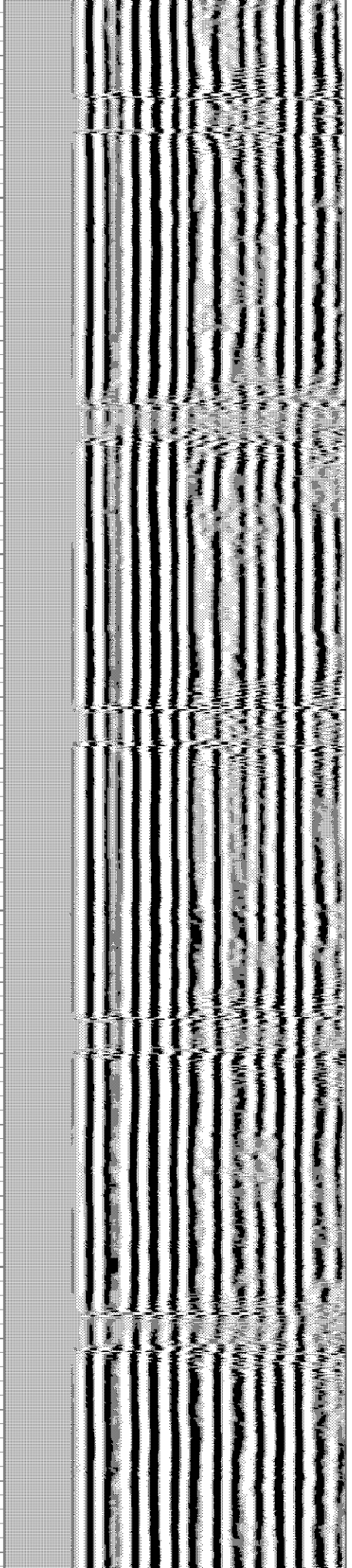
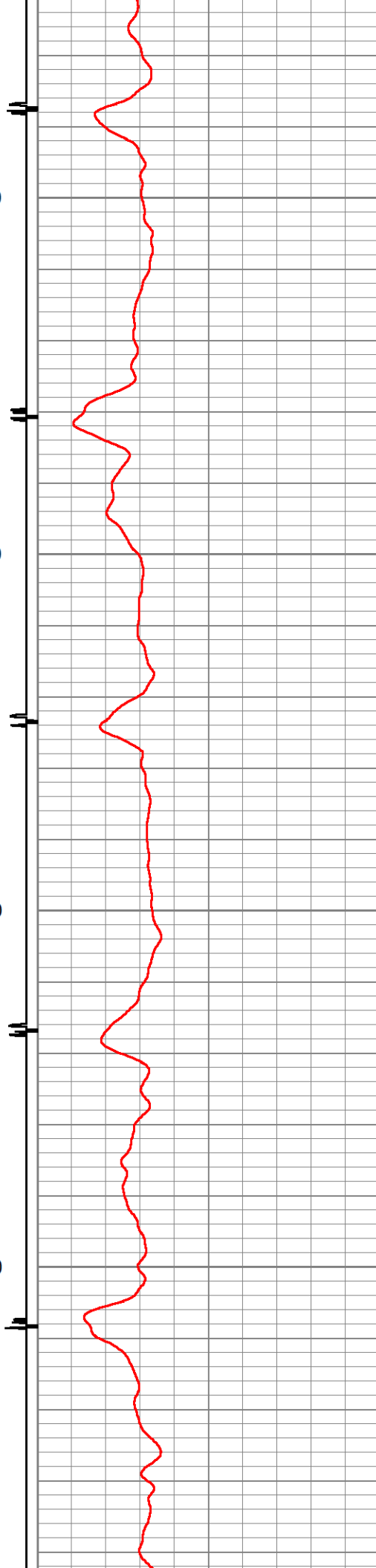


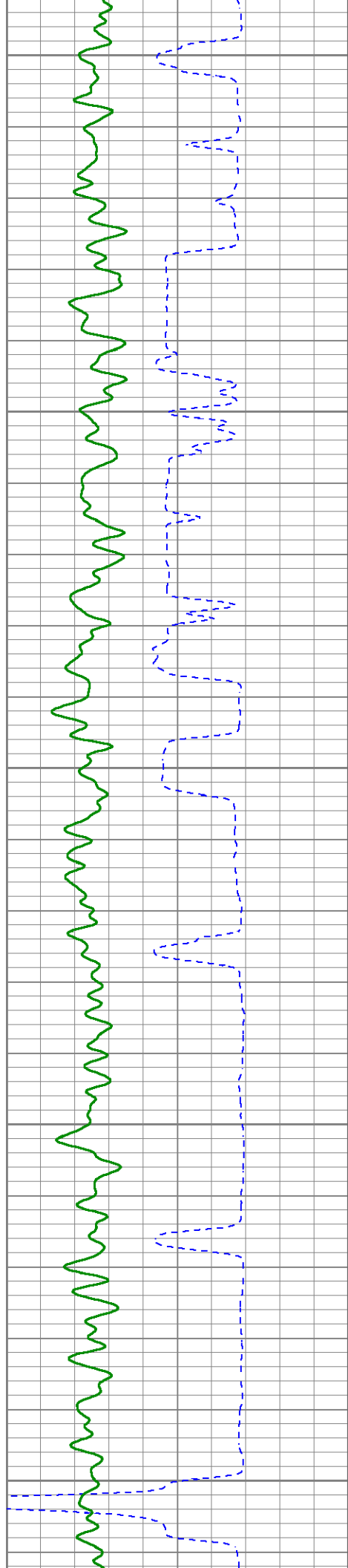
1100

1150

1200

1250





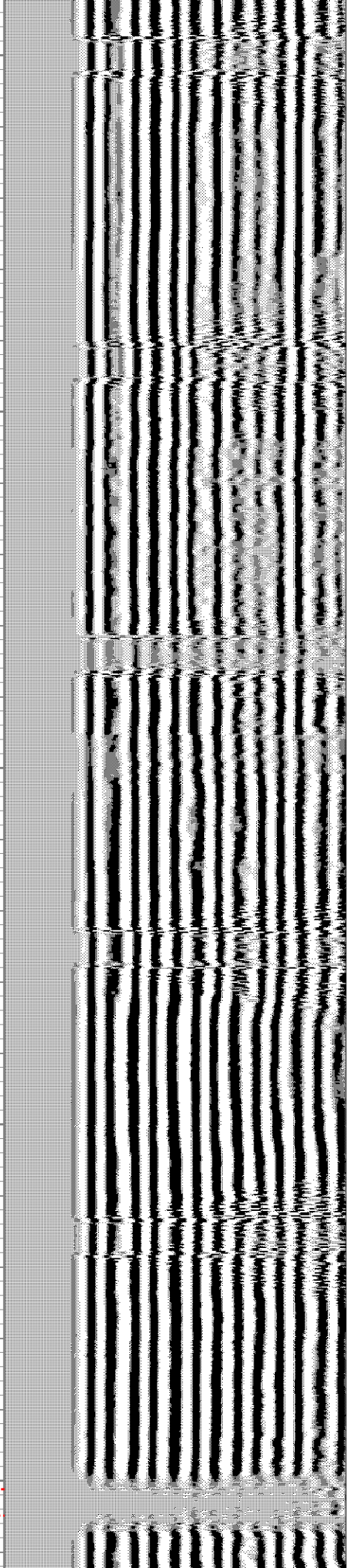
1300

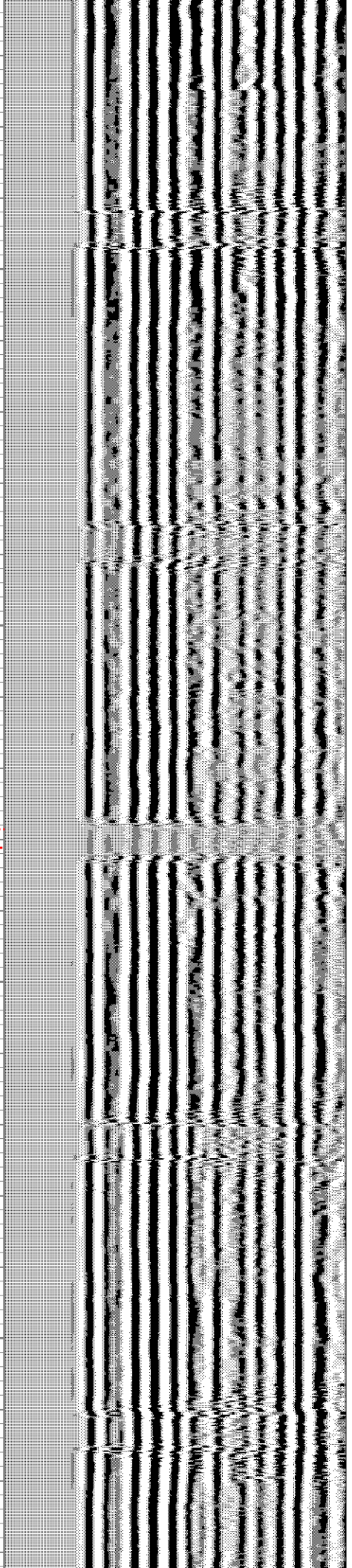
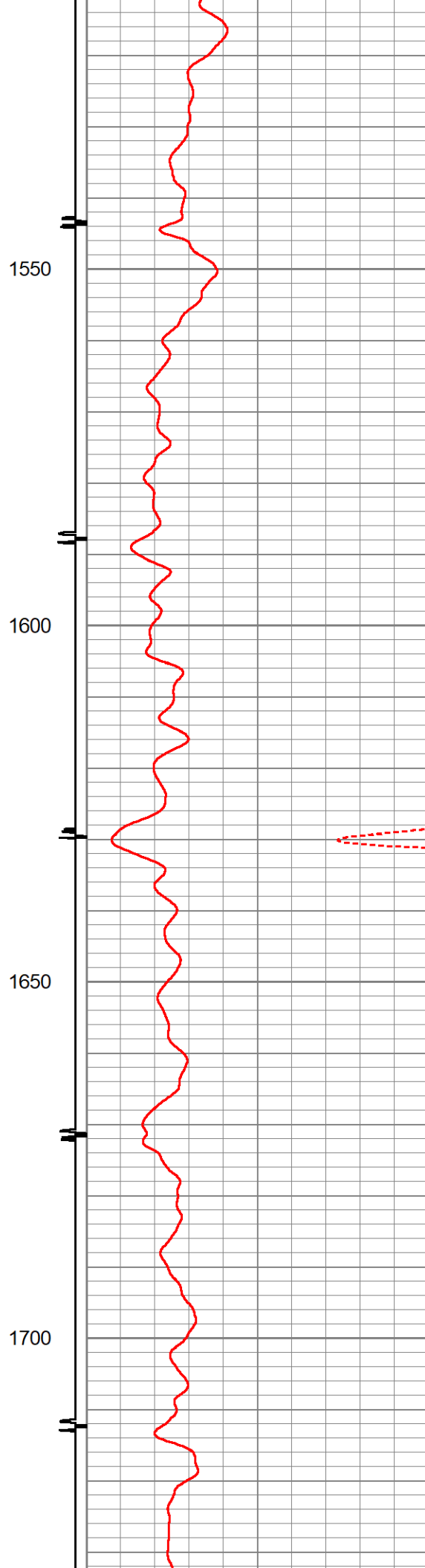
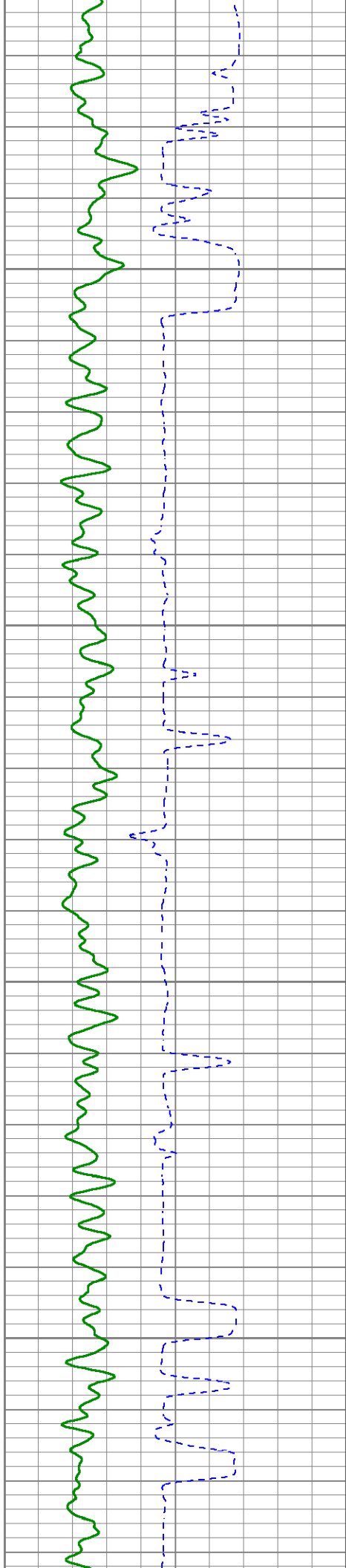
1350

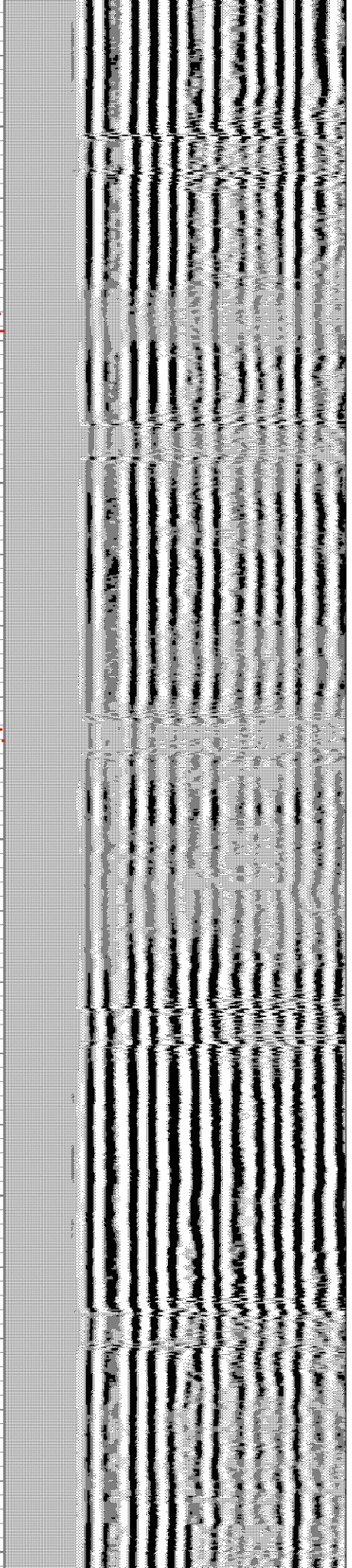
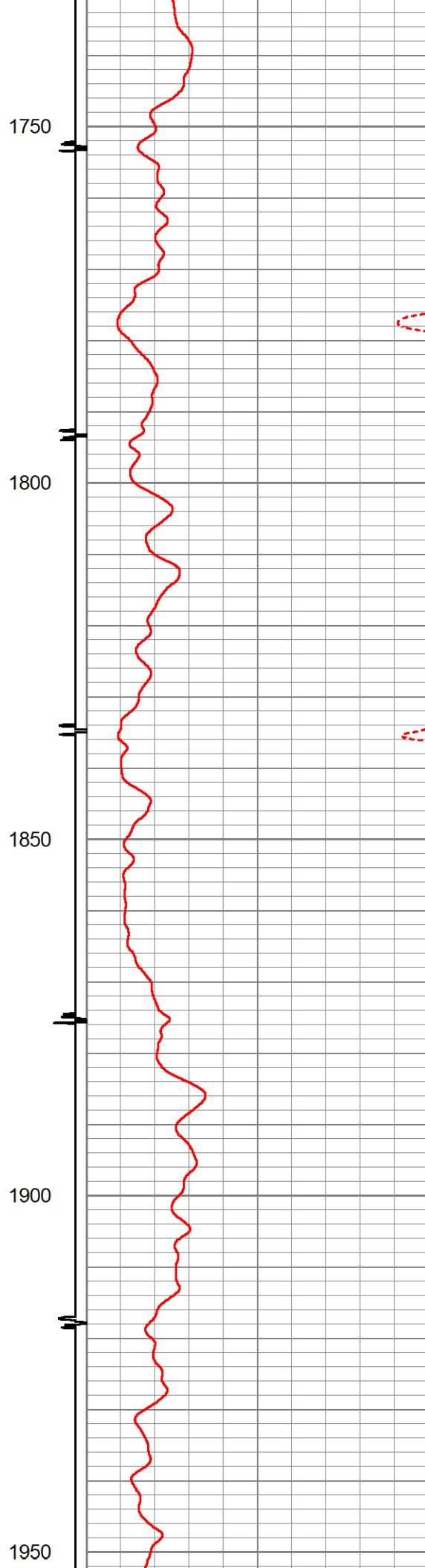
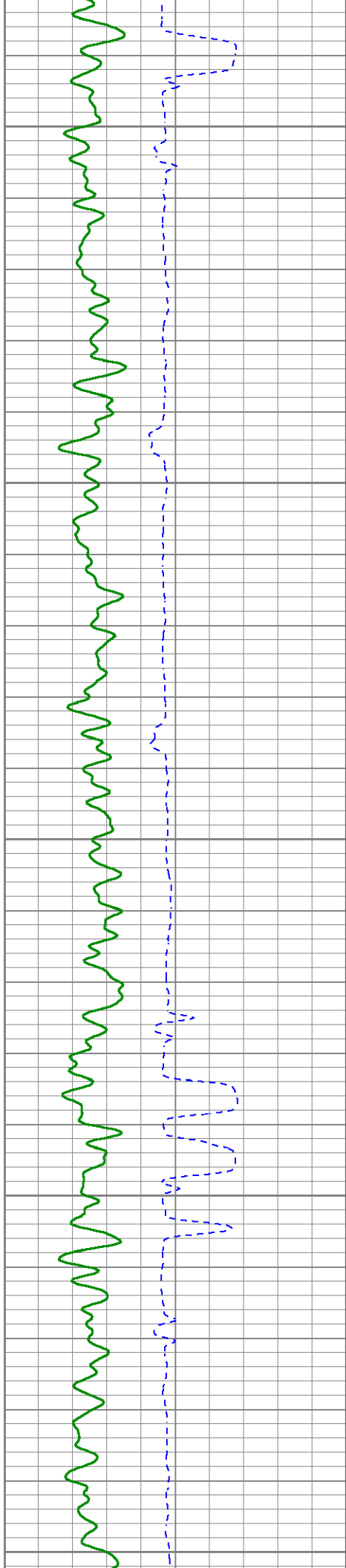
1400

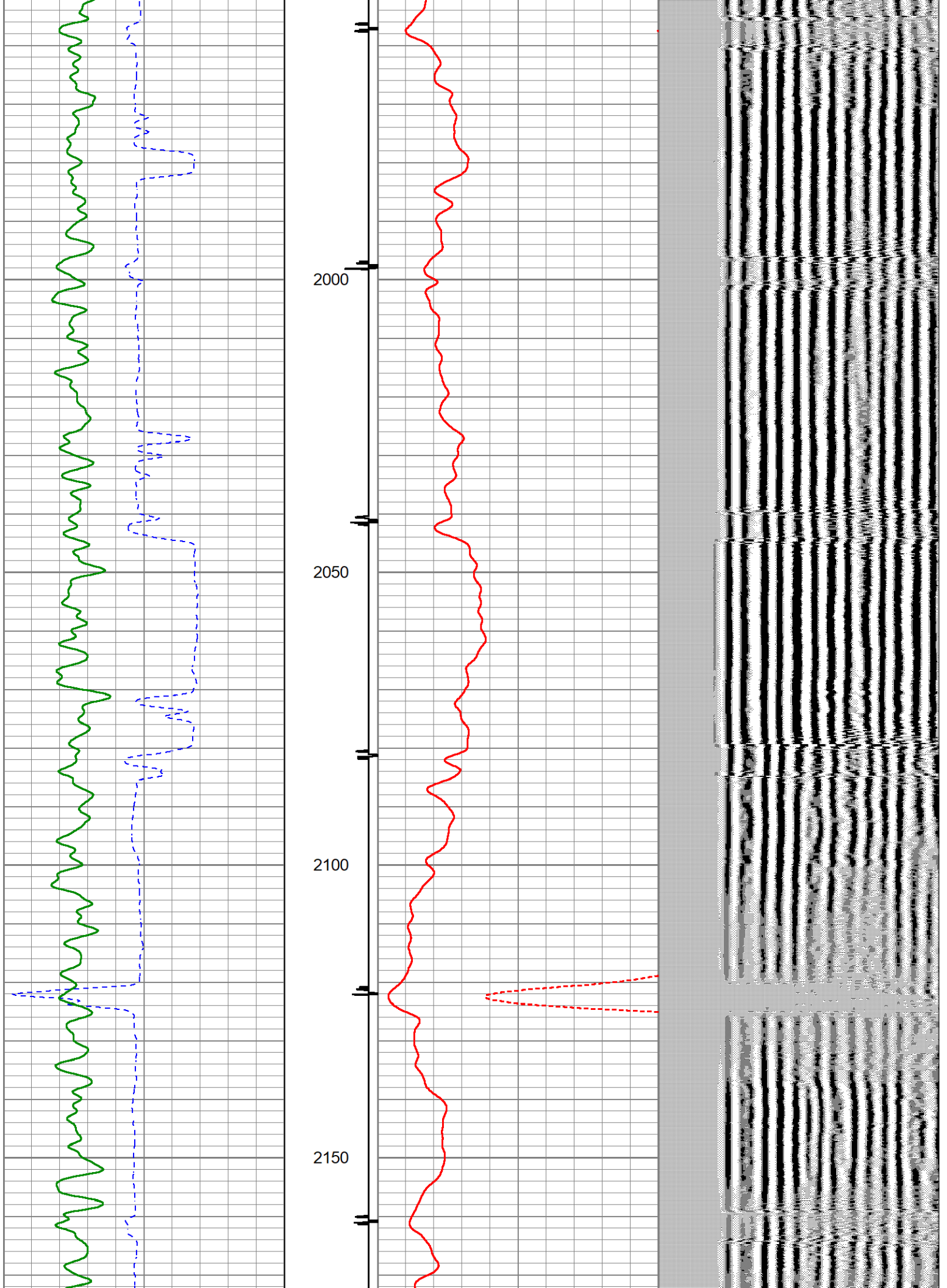
1450

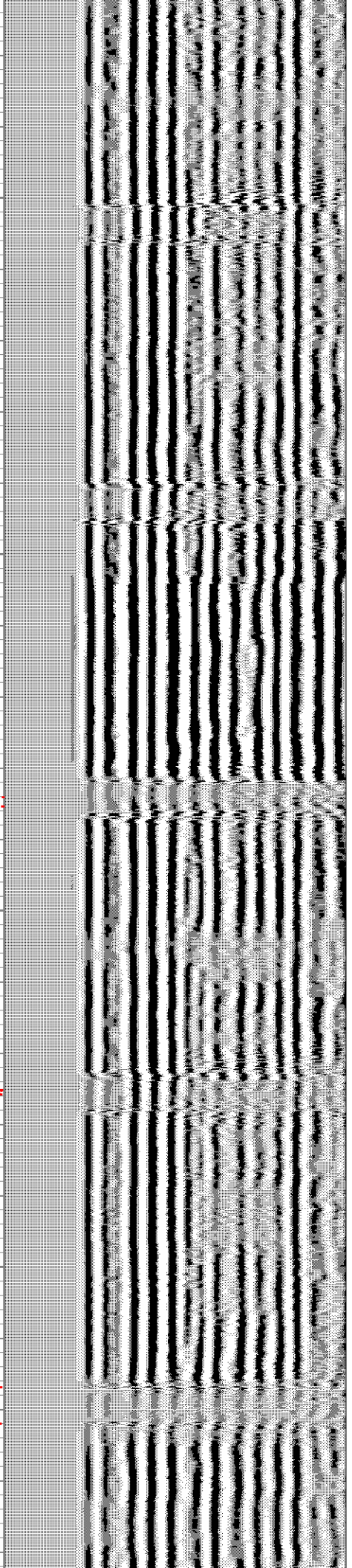
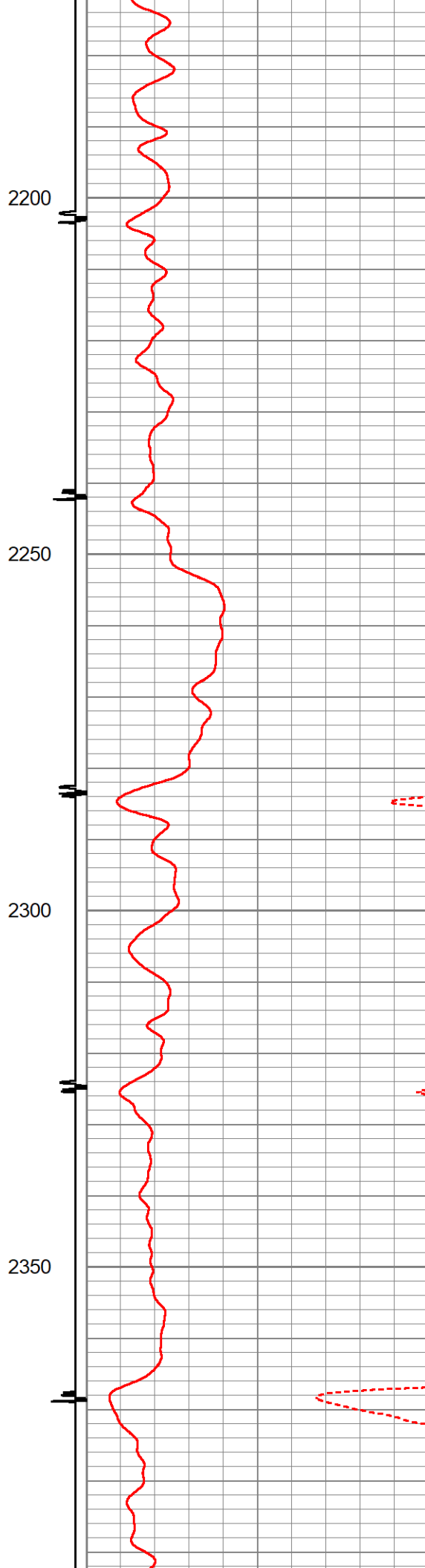
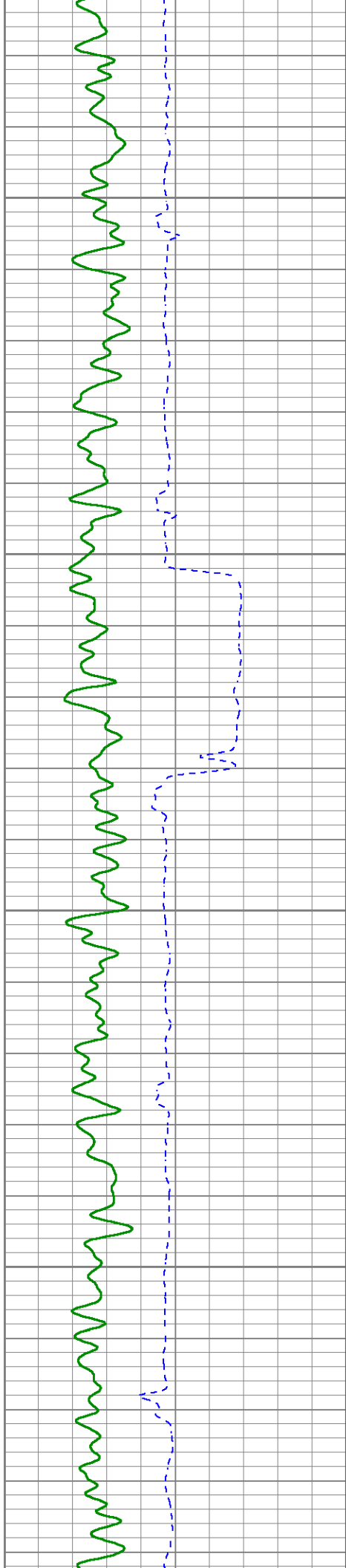
1500

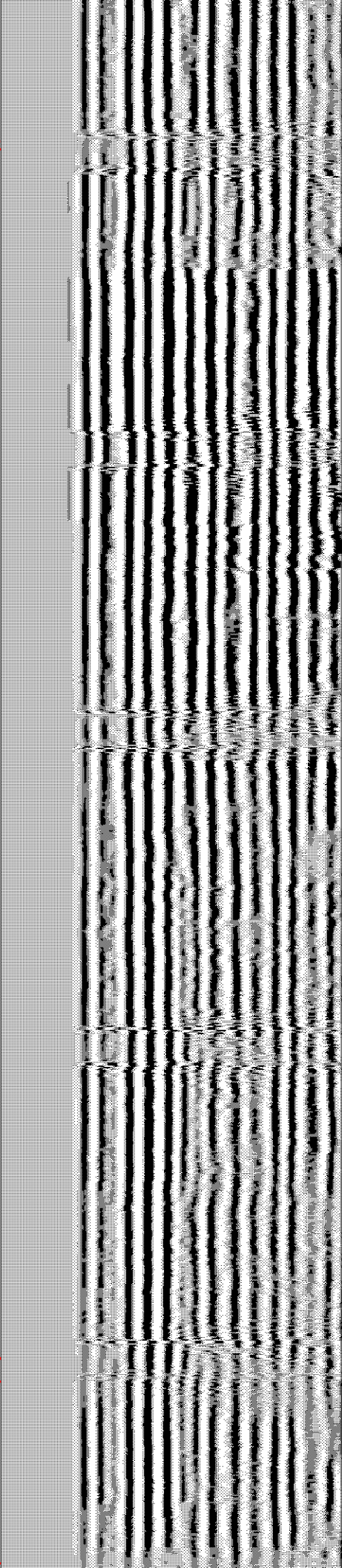
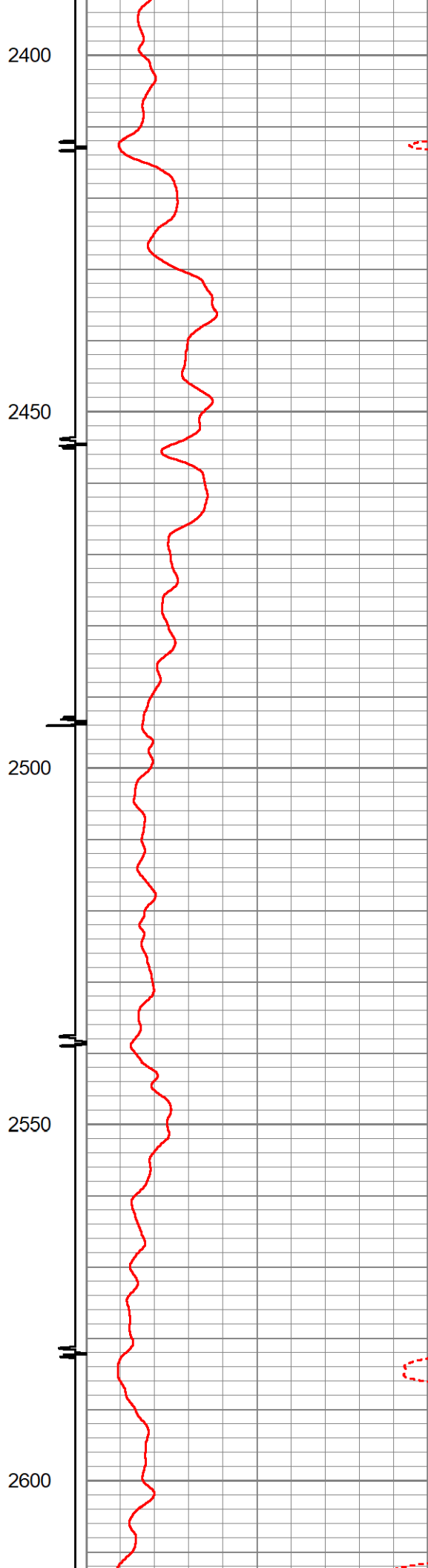
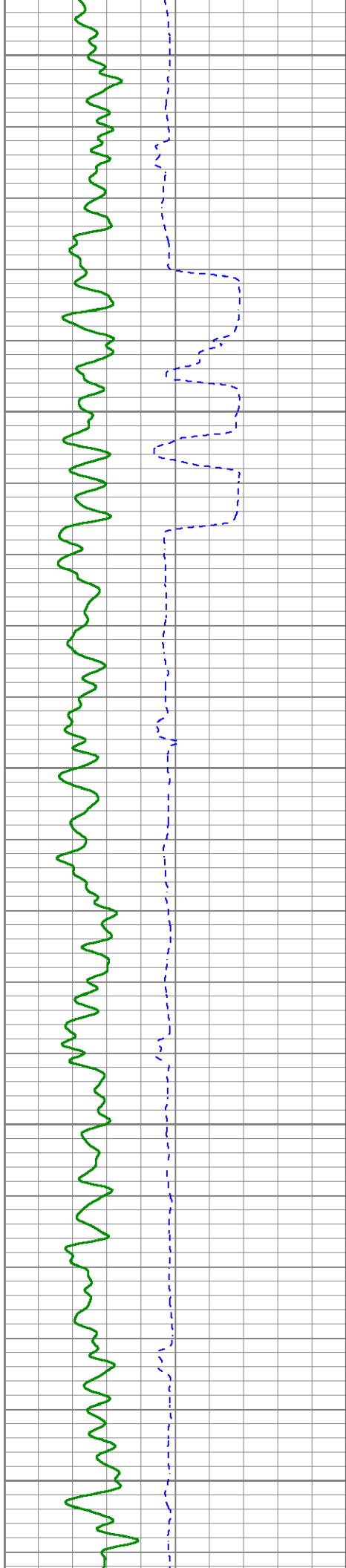


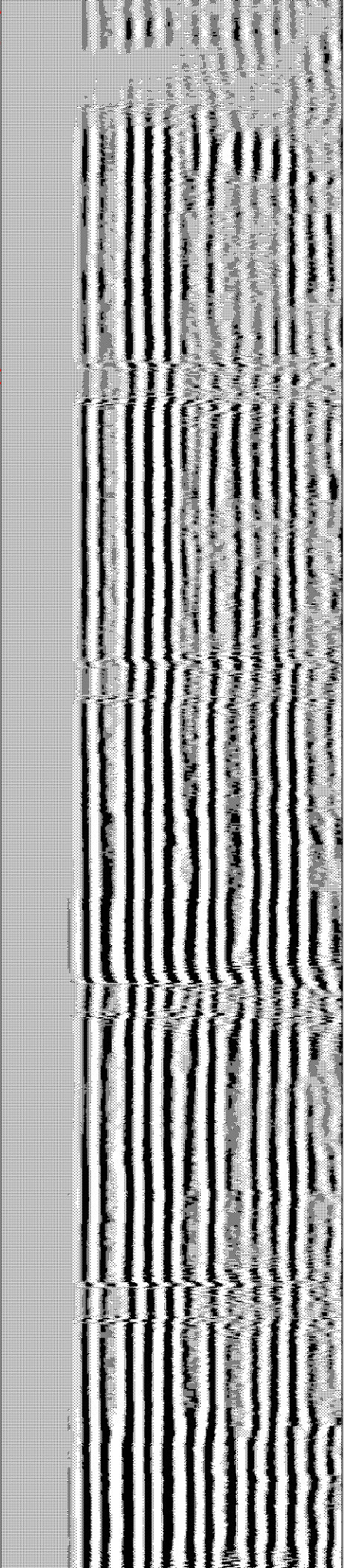
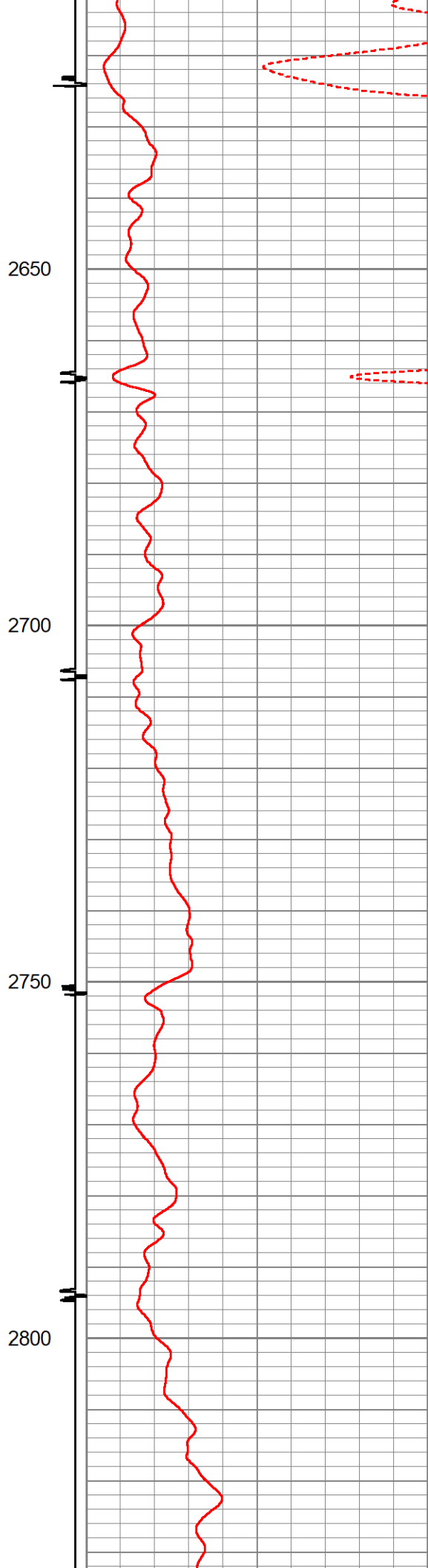
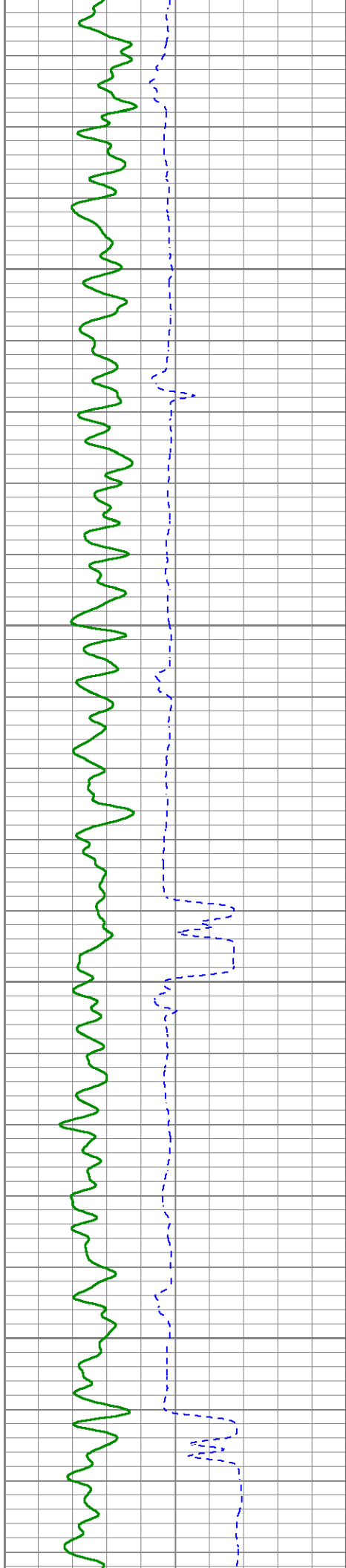


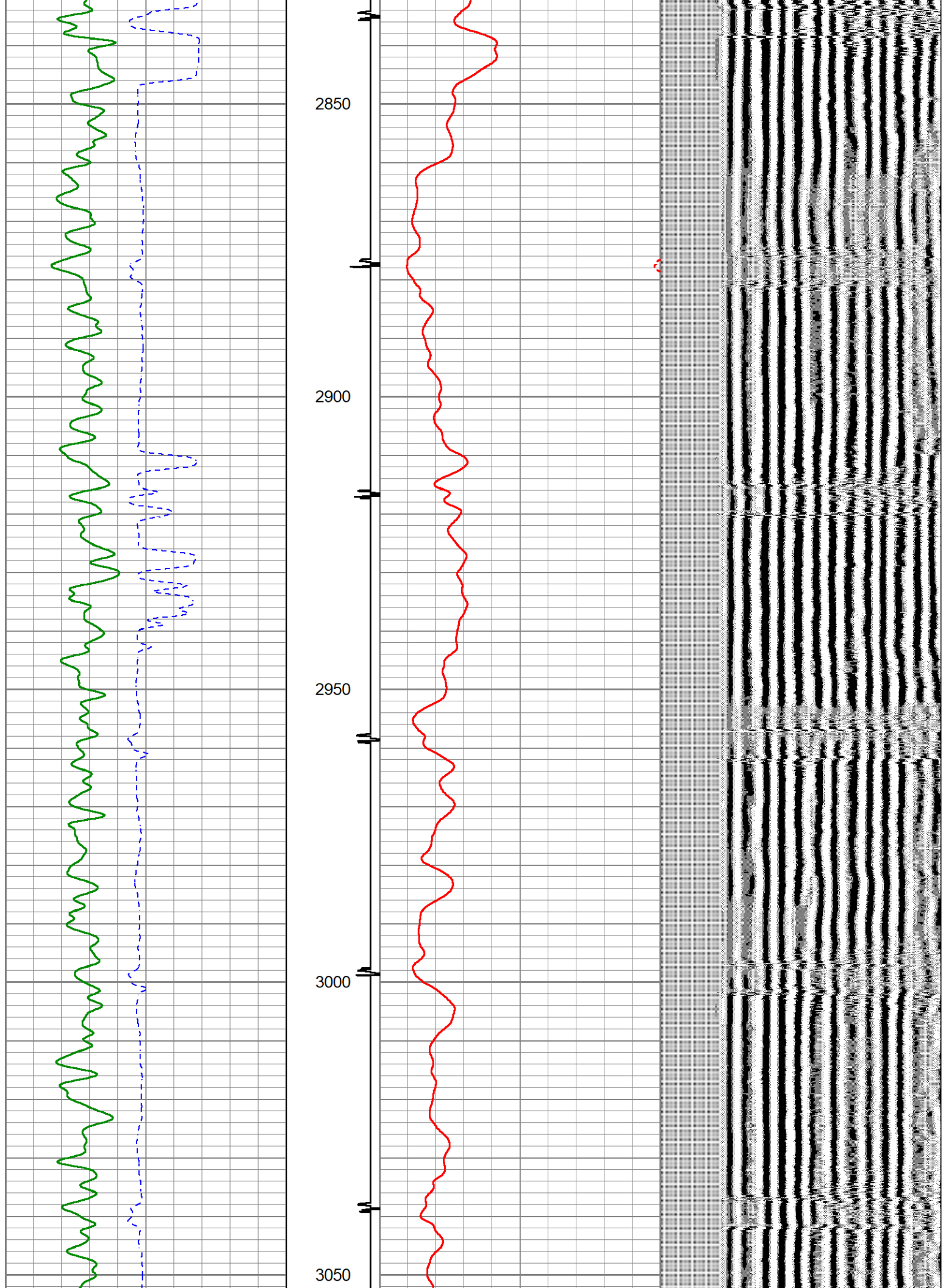


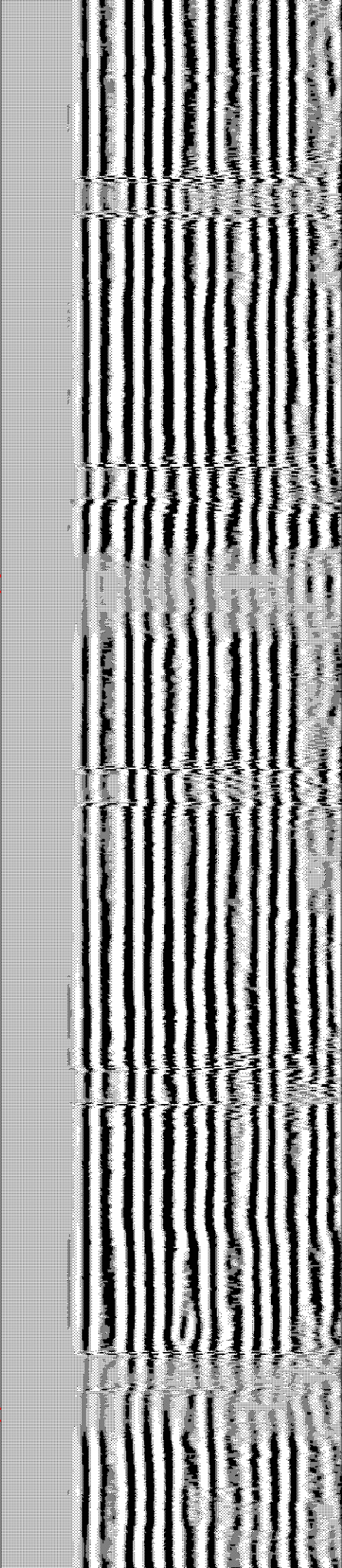
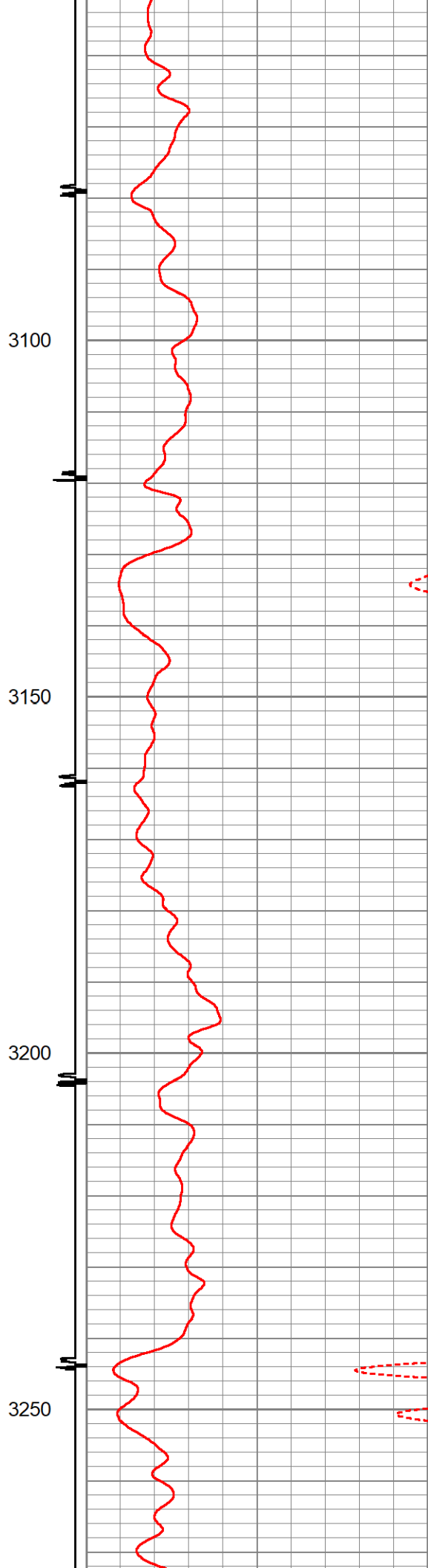
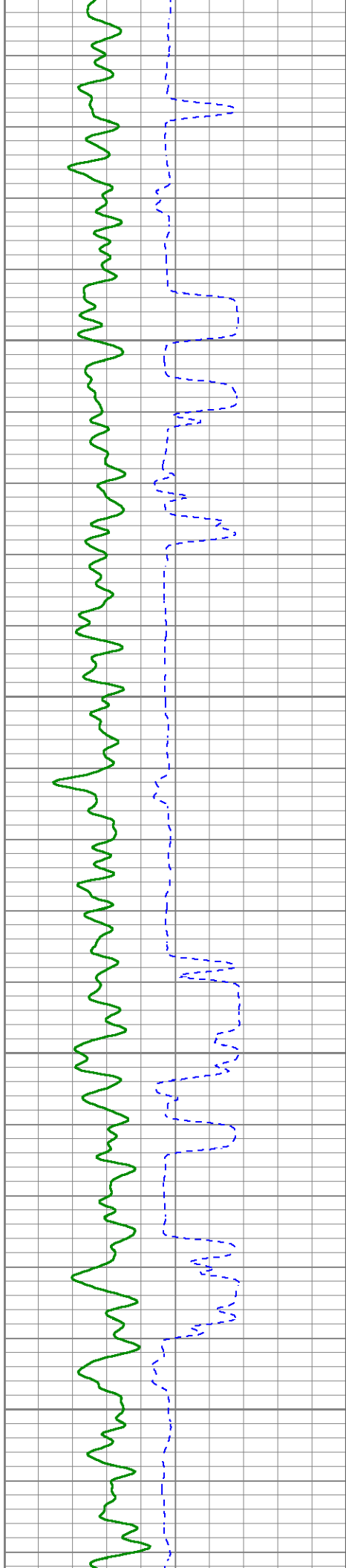


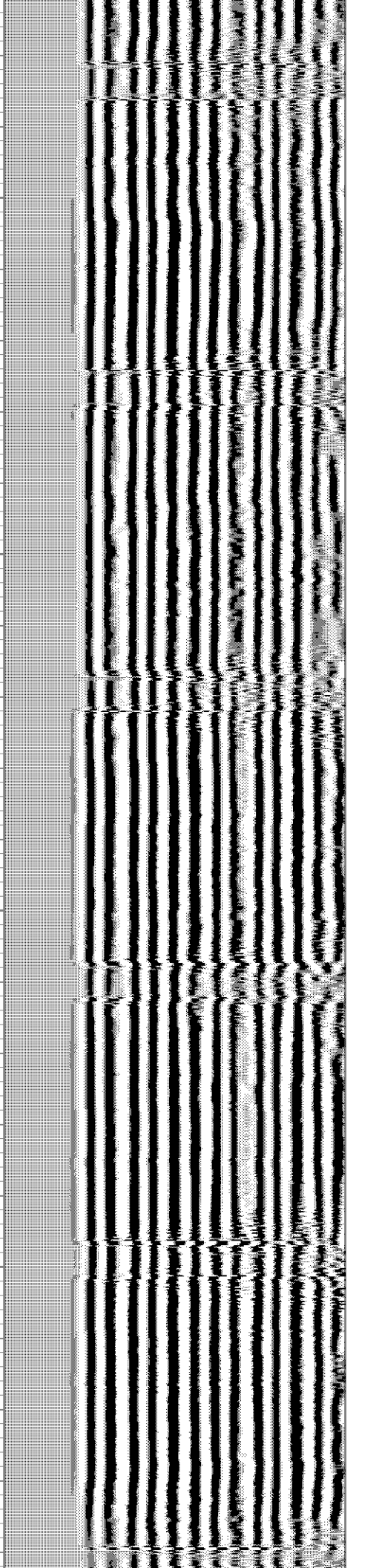
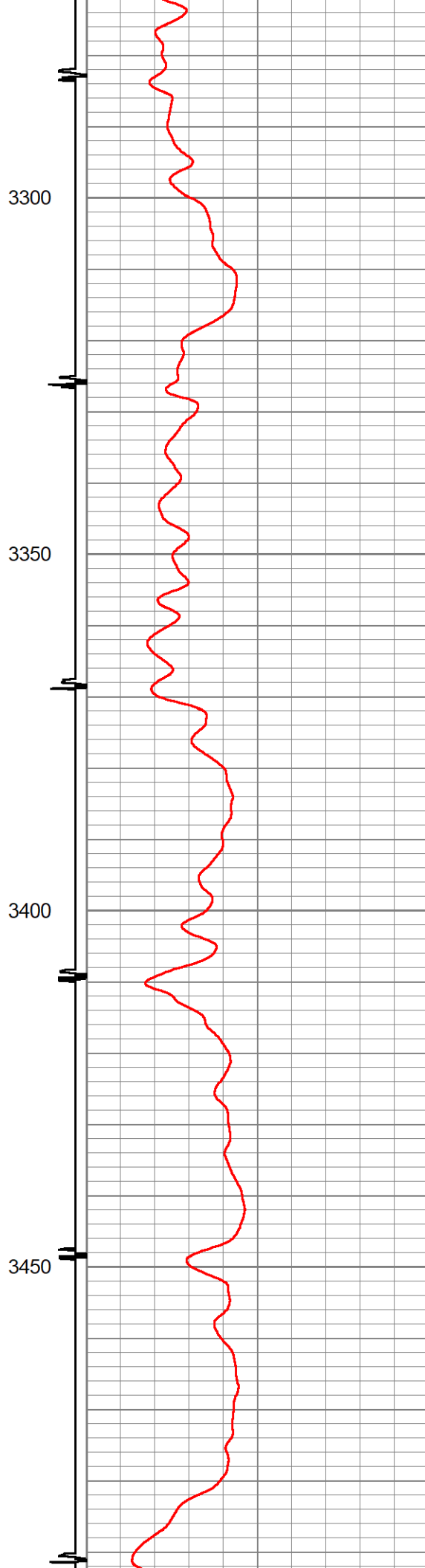
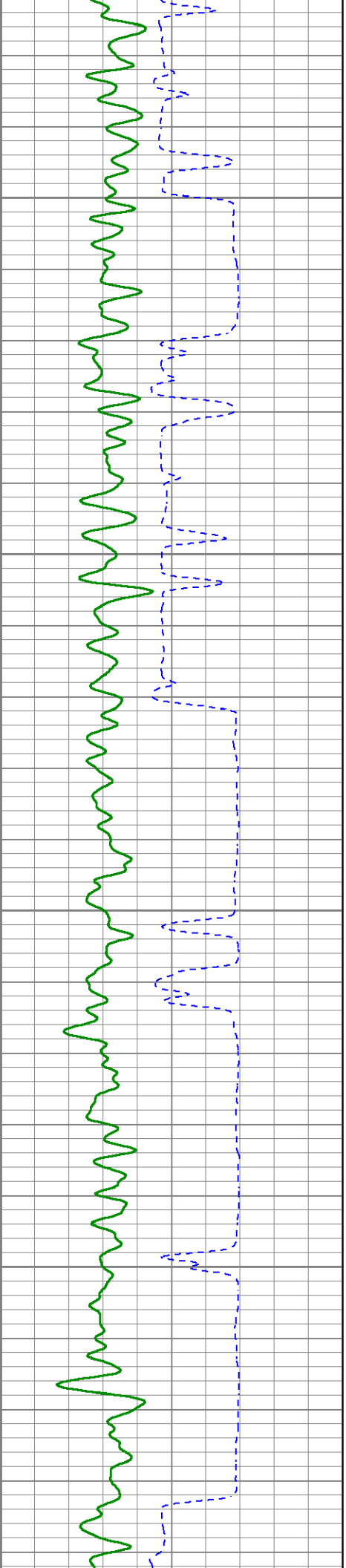


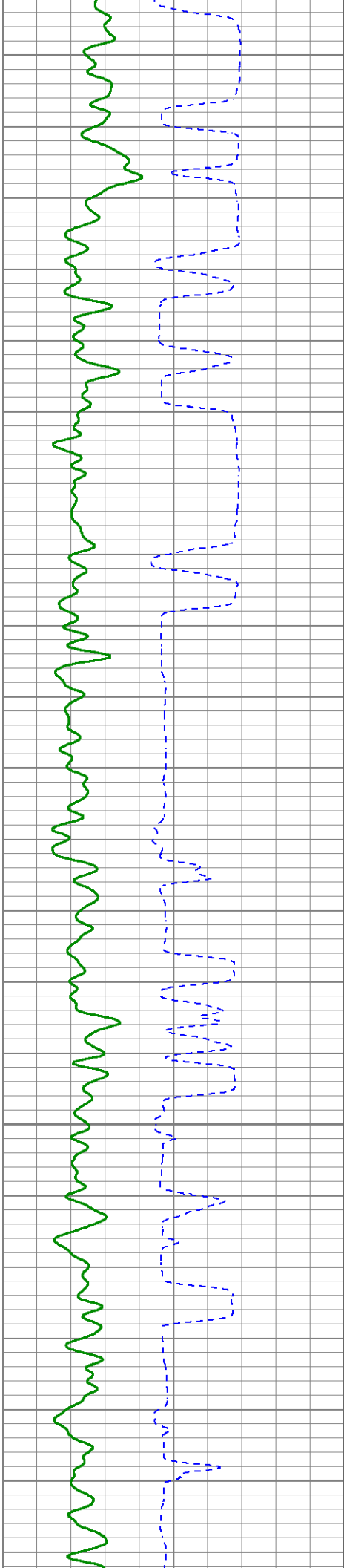












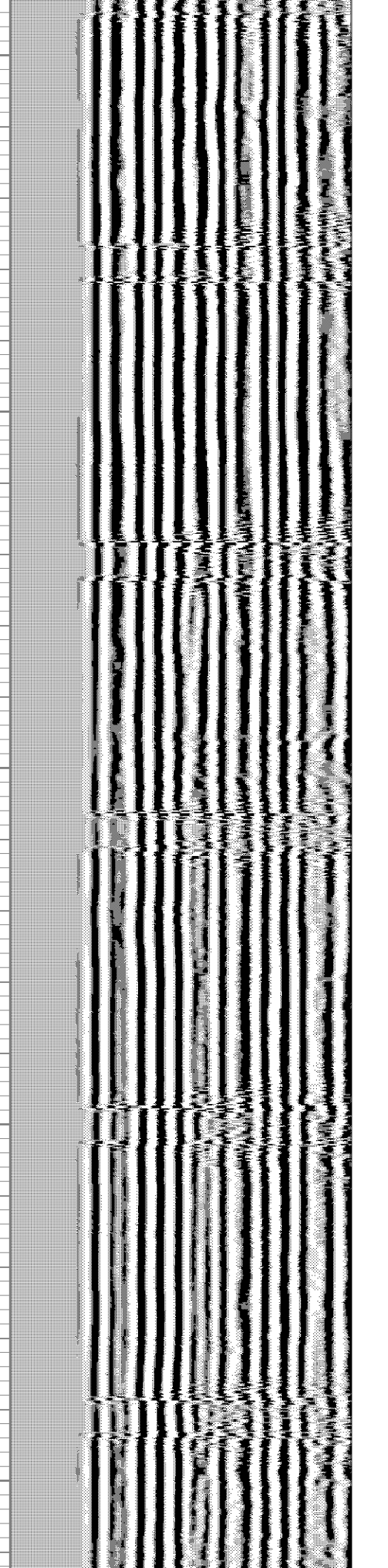
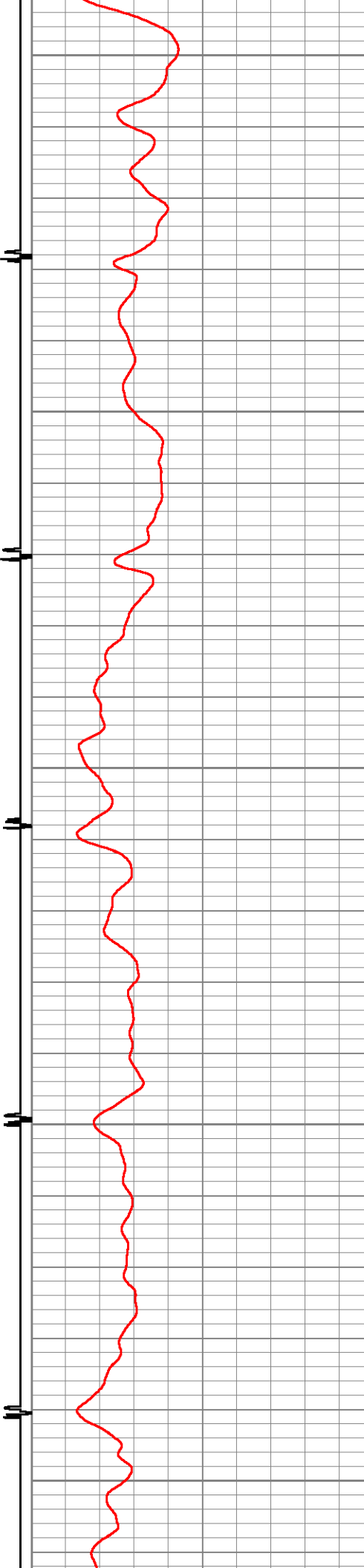
3500

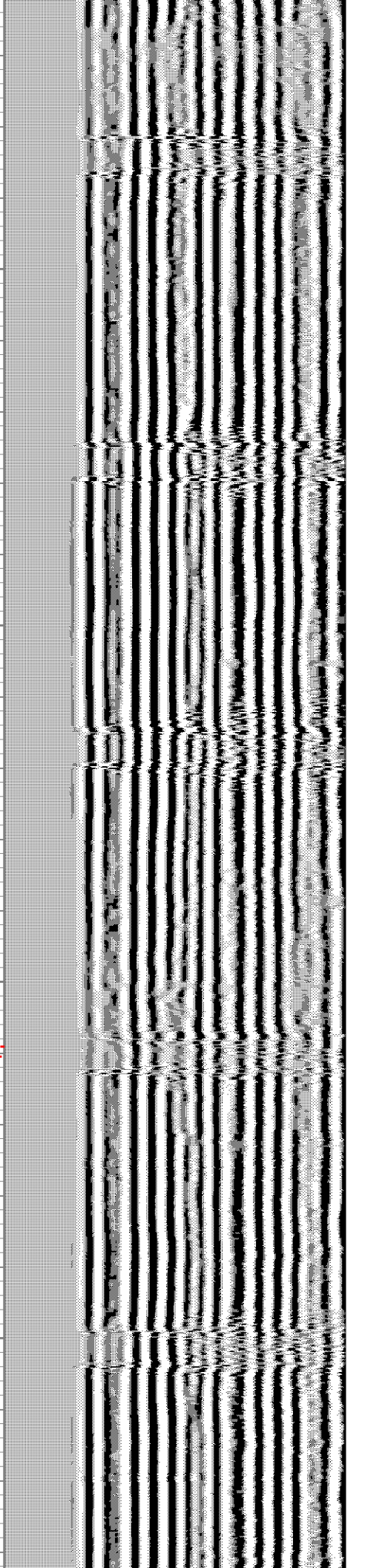
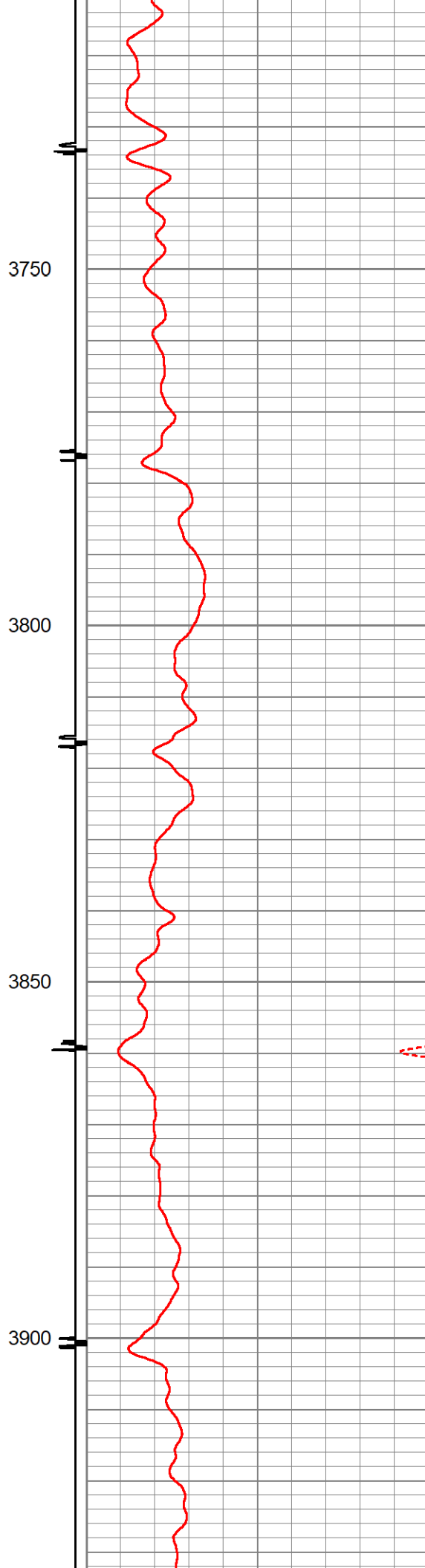
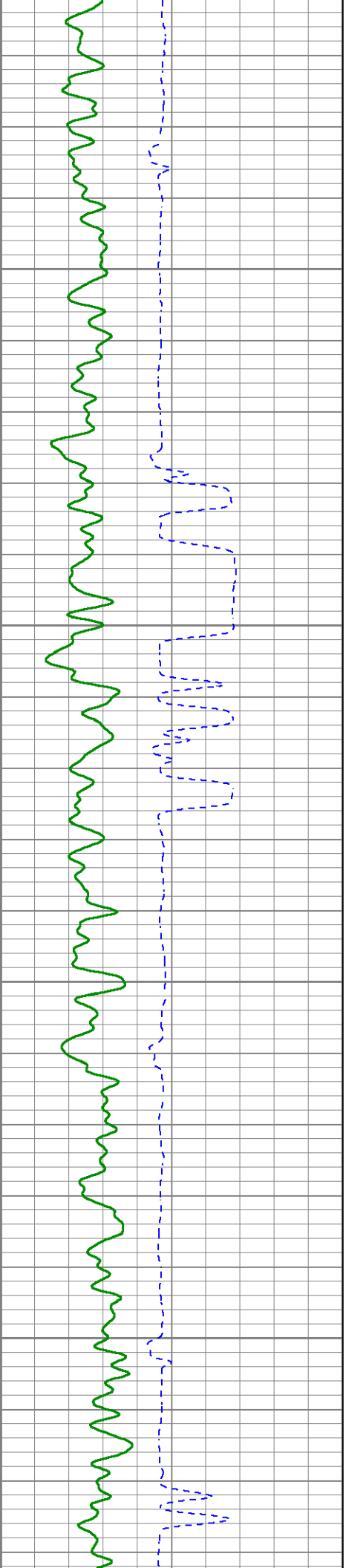
3550

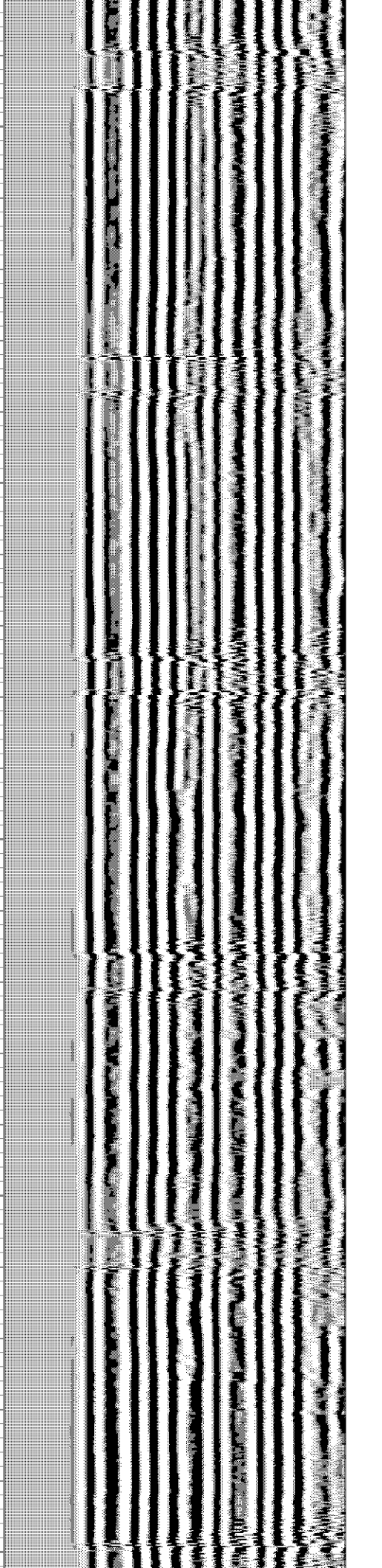
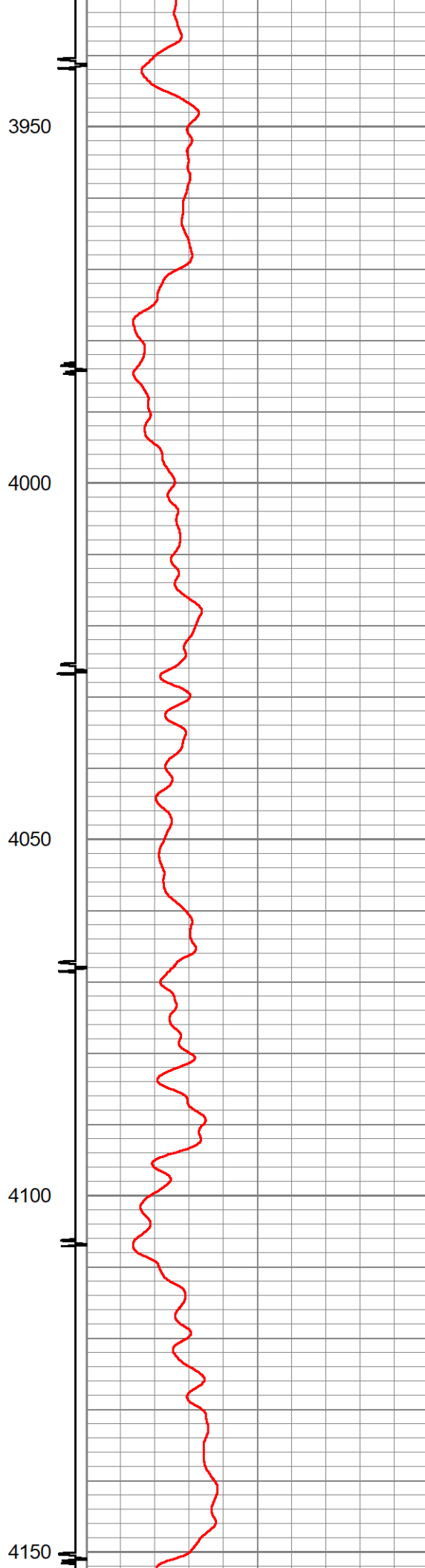
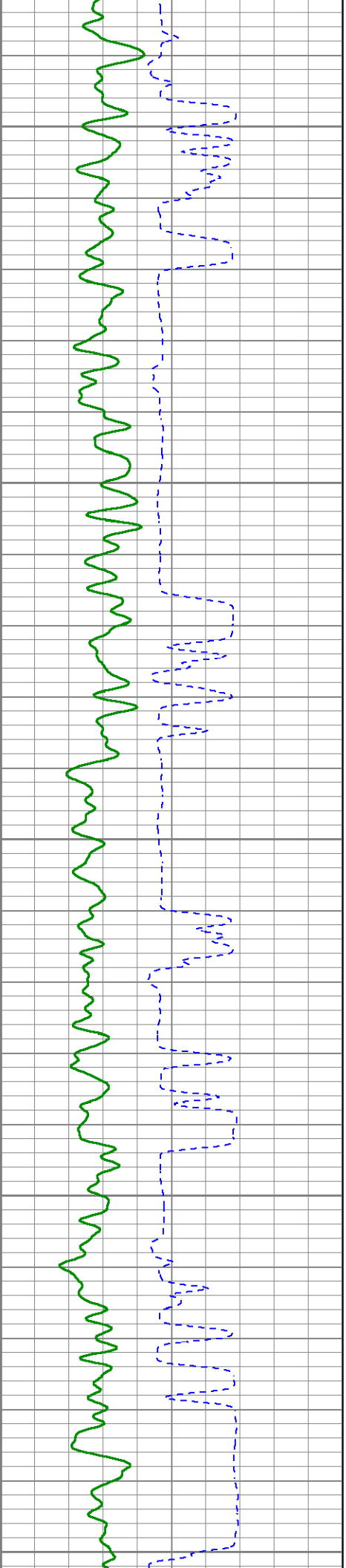
3600

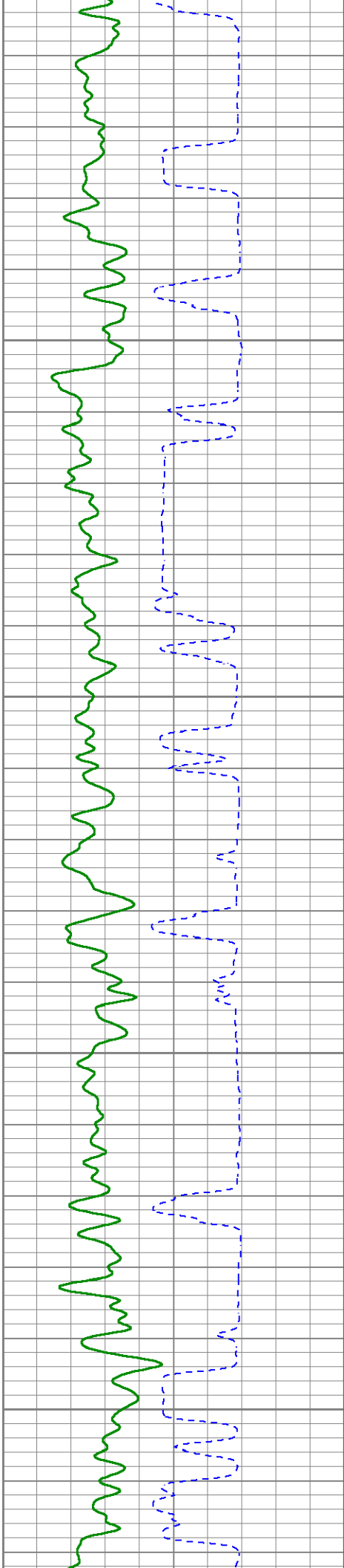
3650

3700







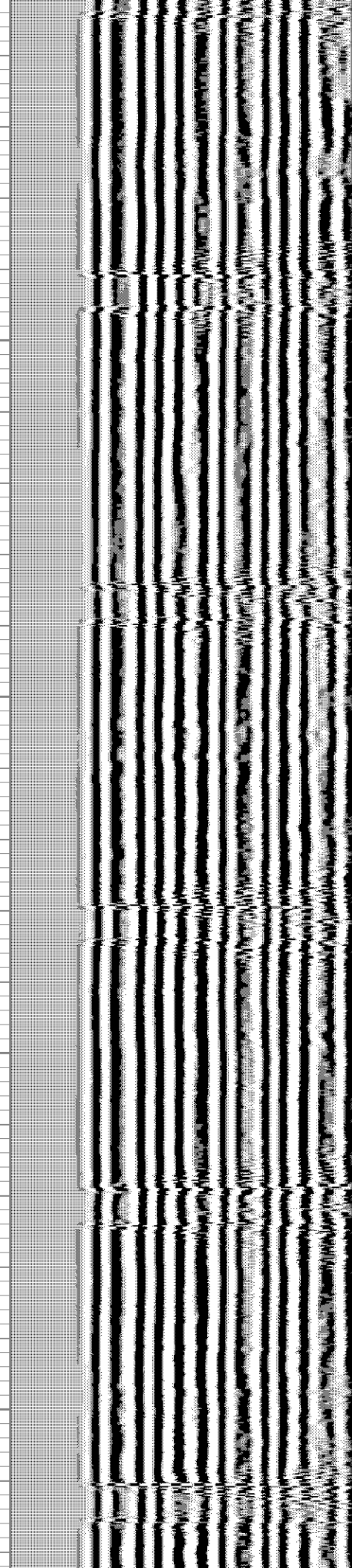
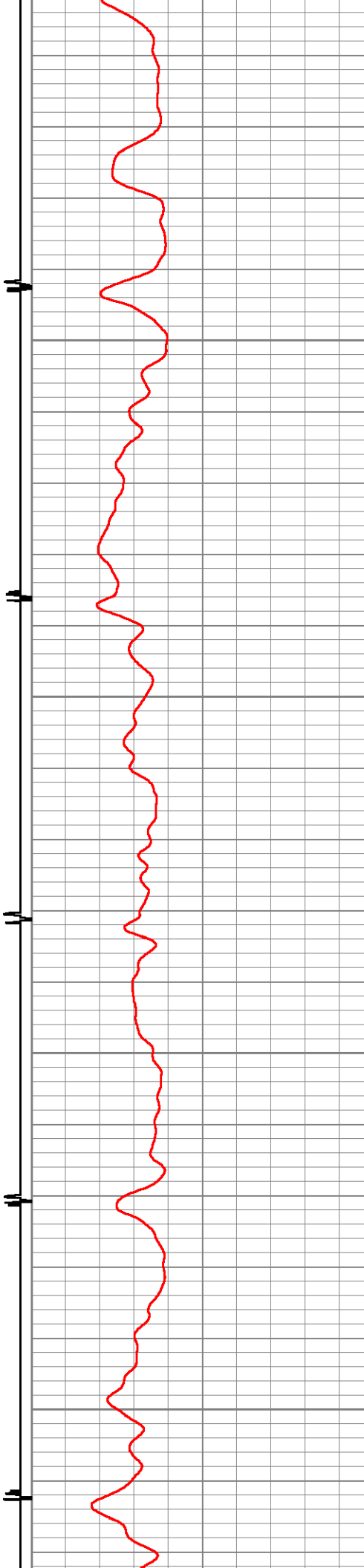


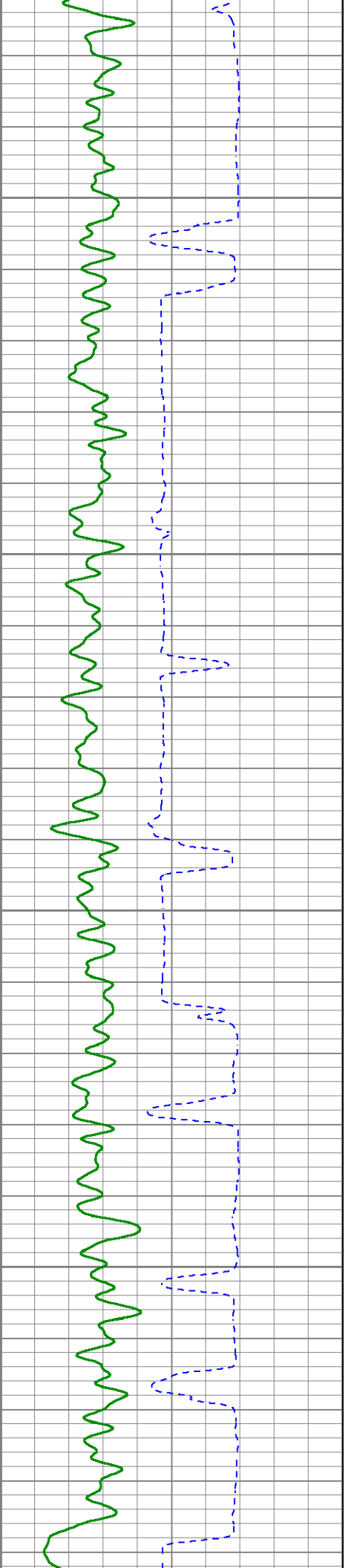
4200

4250

4300

4350



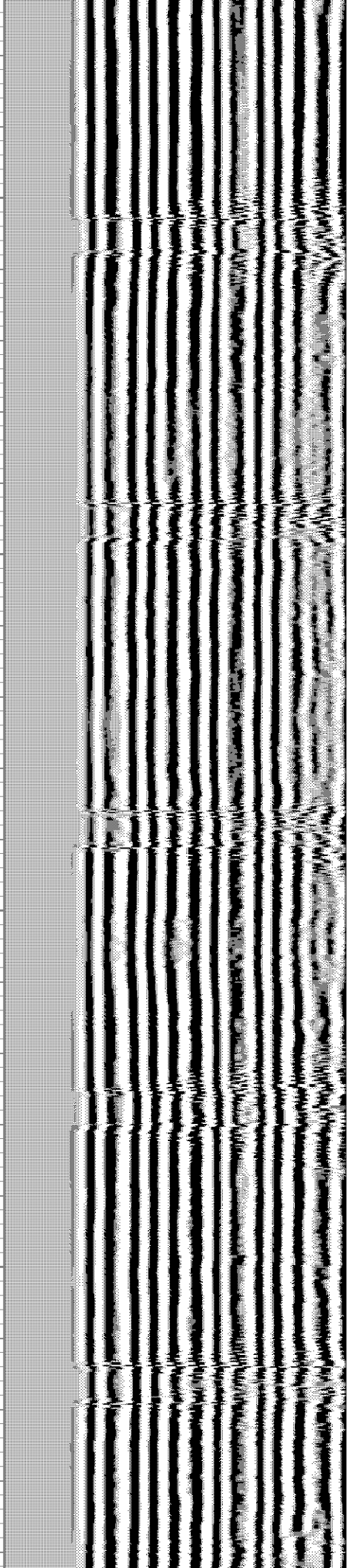
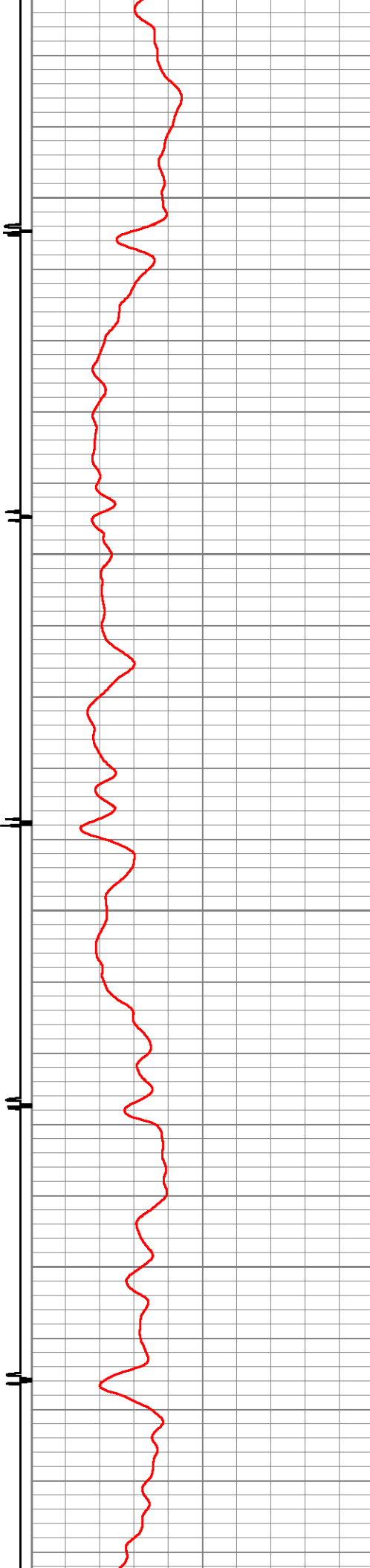


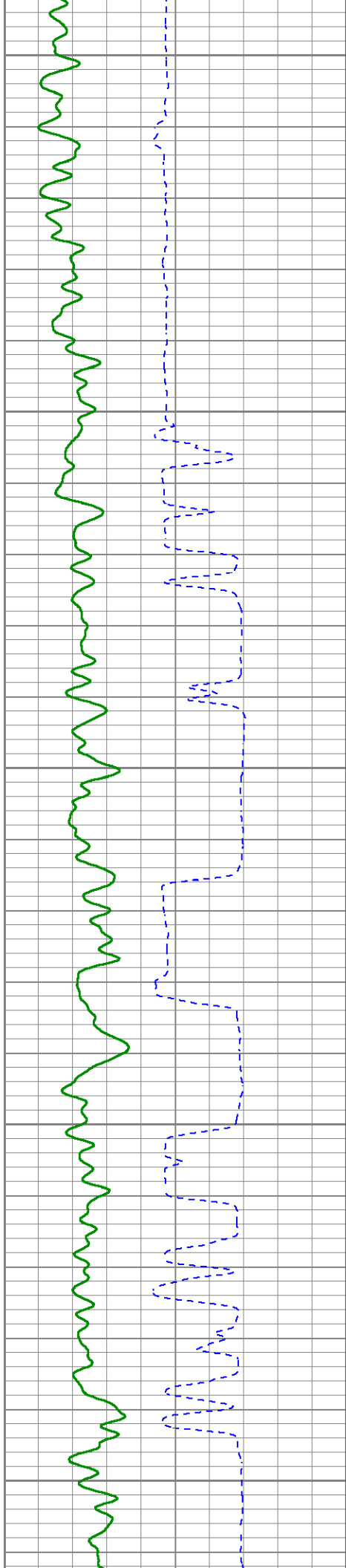
4400

4450

4500

4550





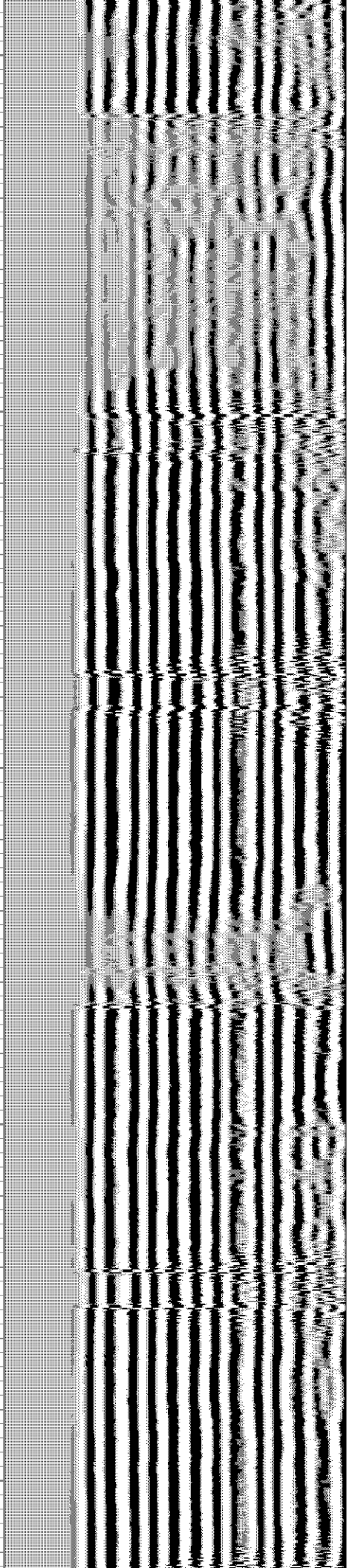
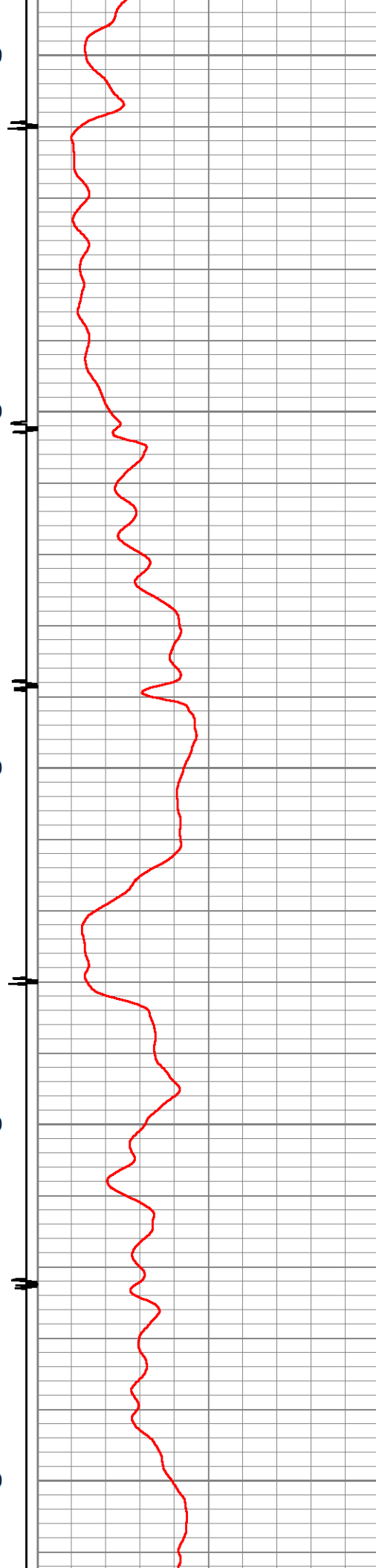
4600

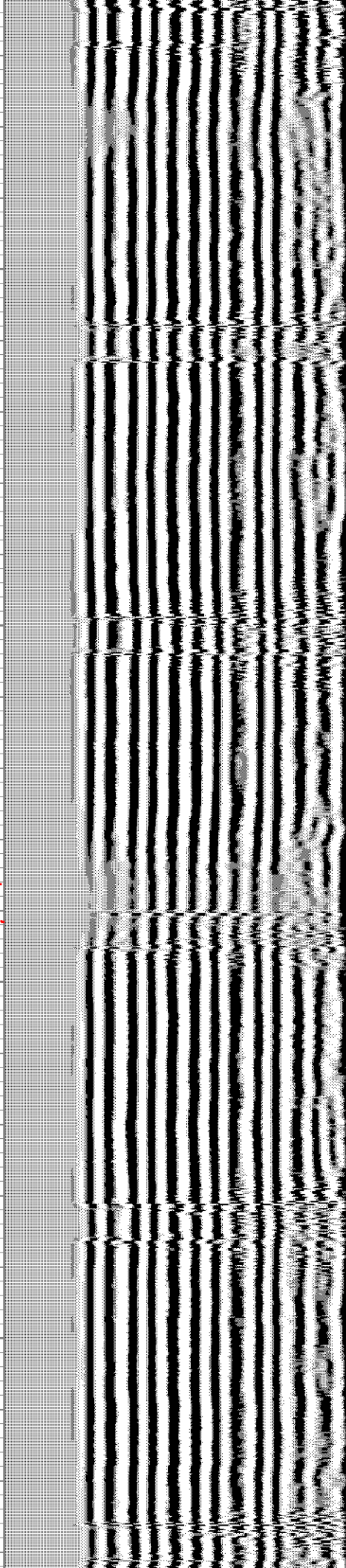
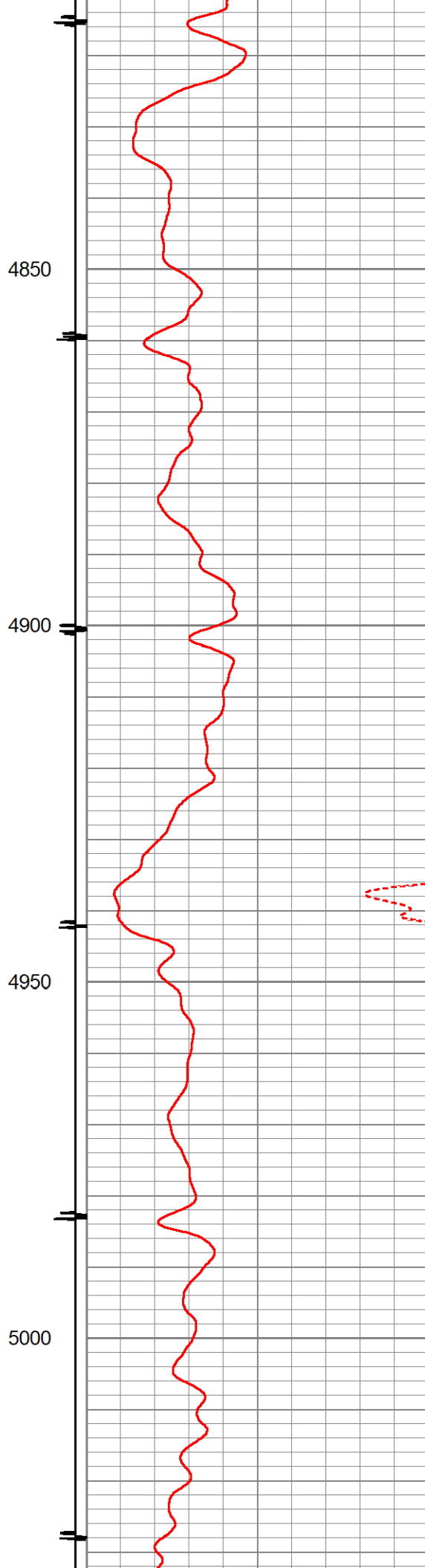
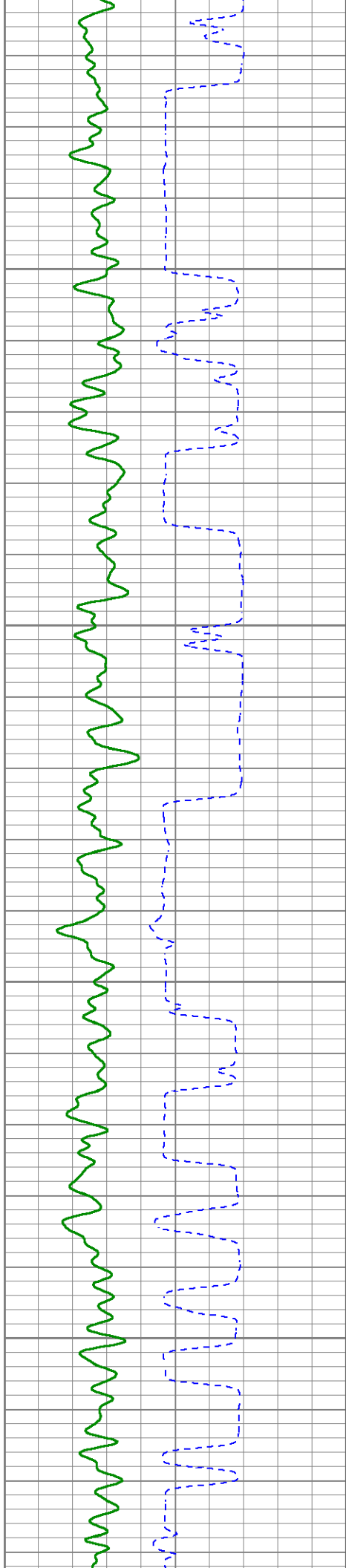
4650

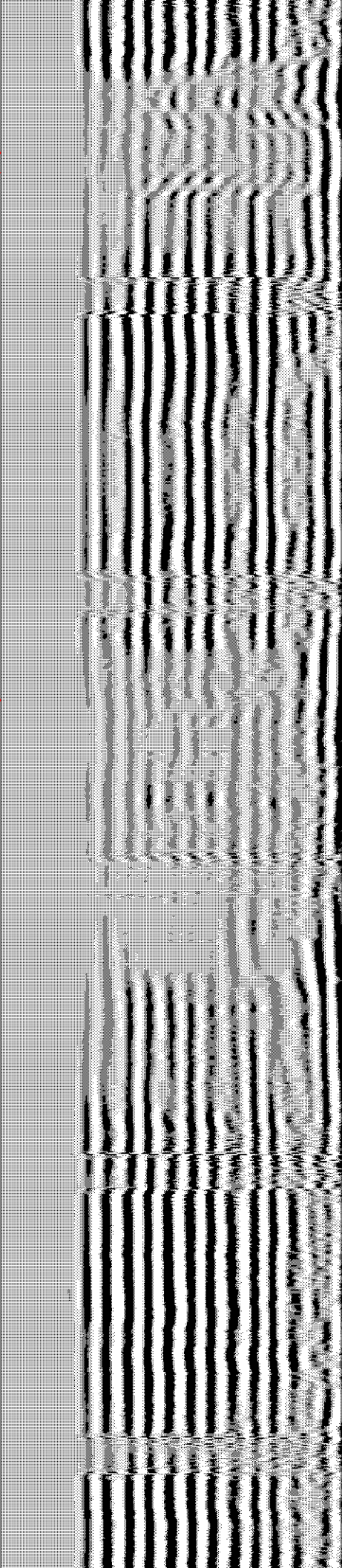
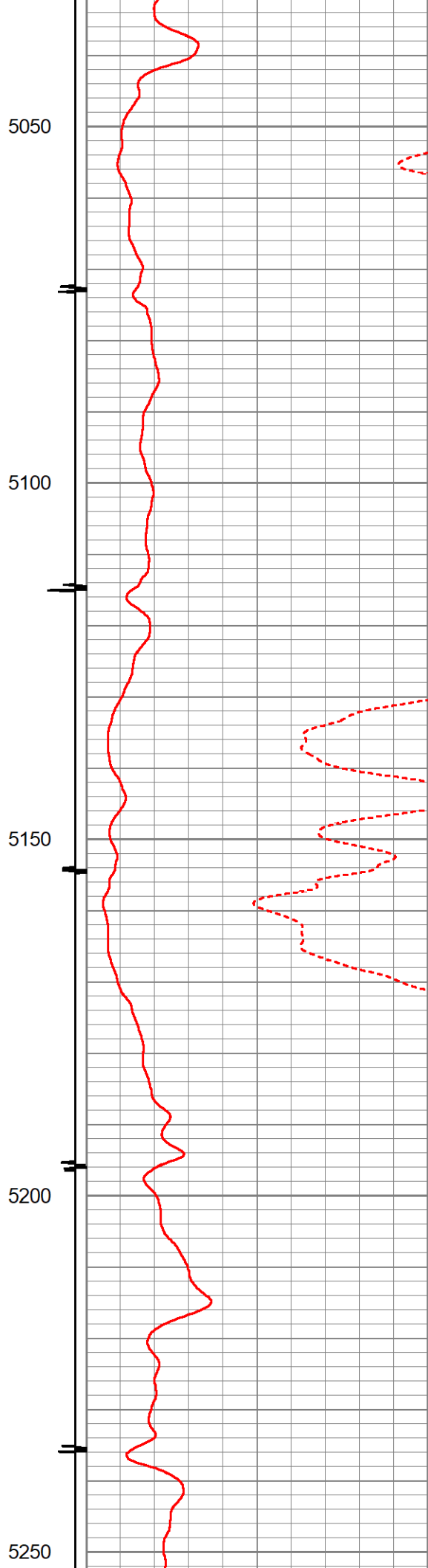
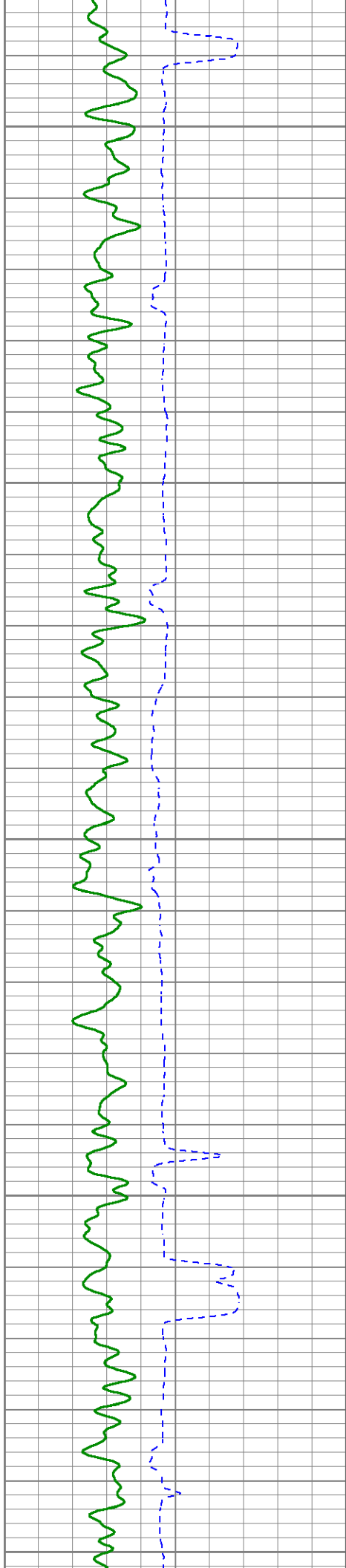
4700

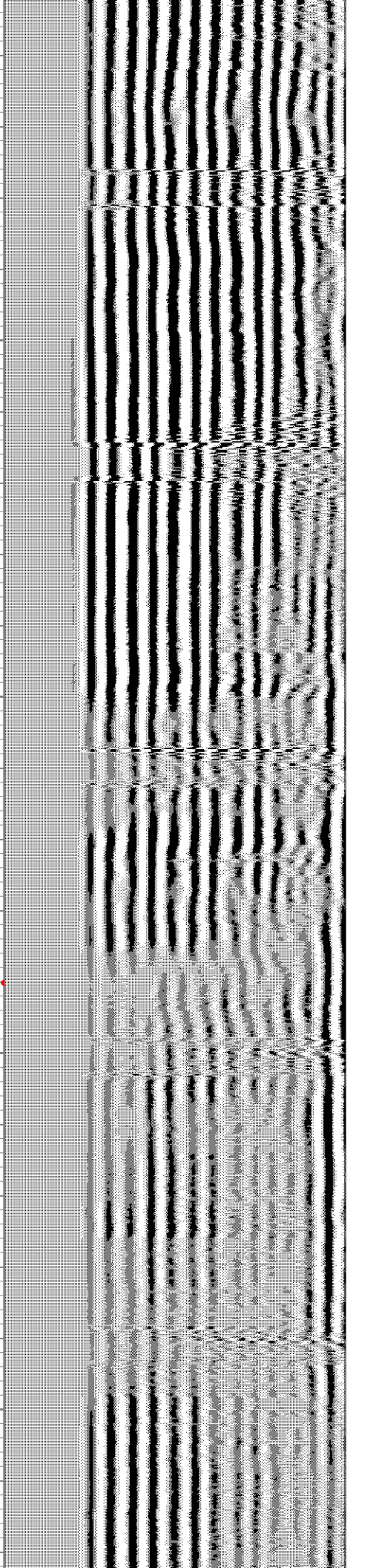
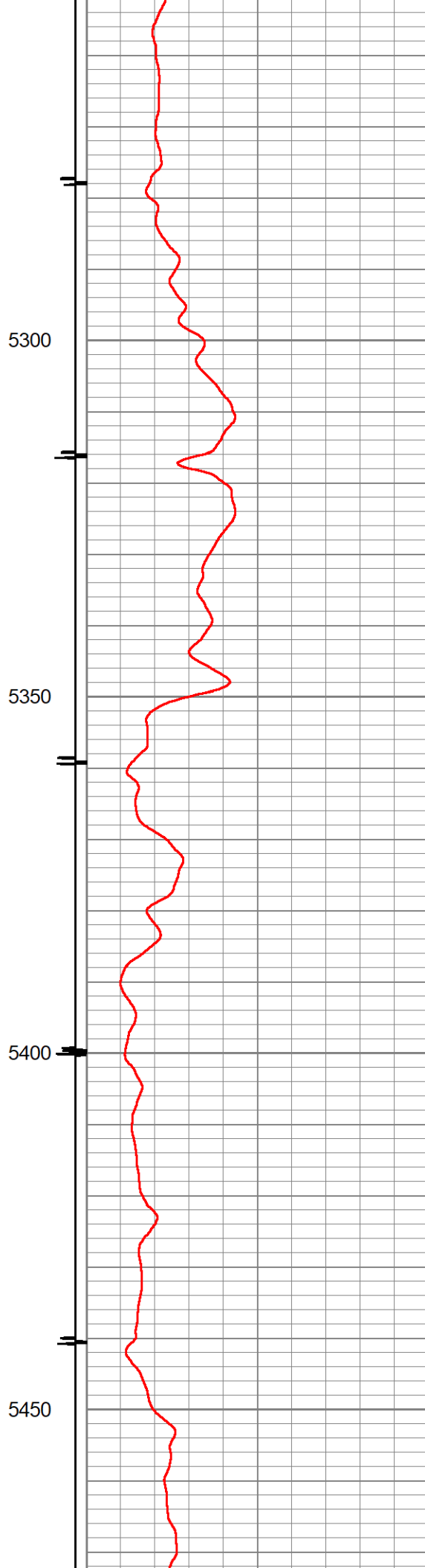
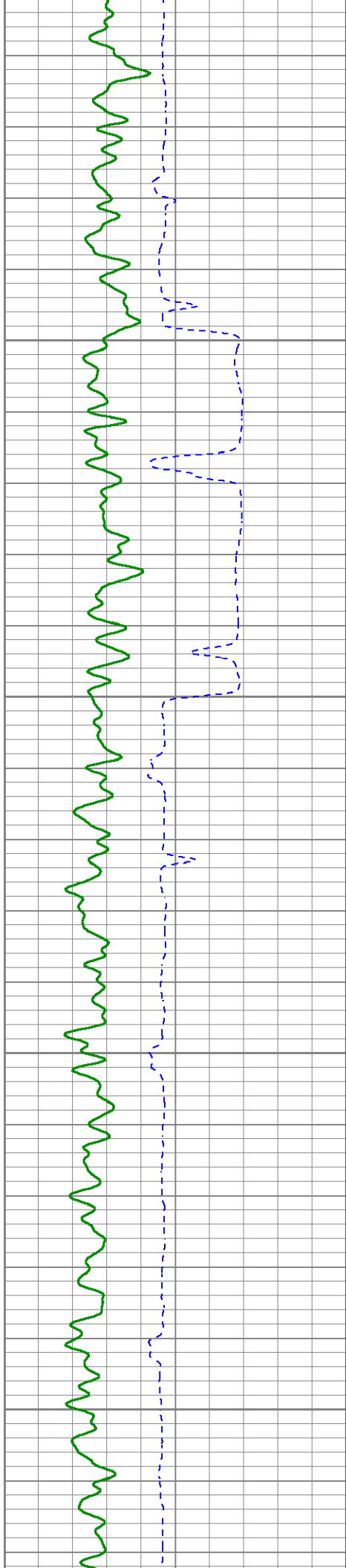
4750

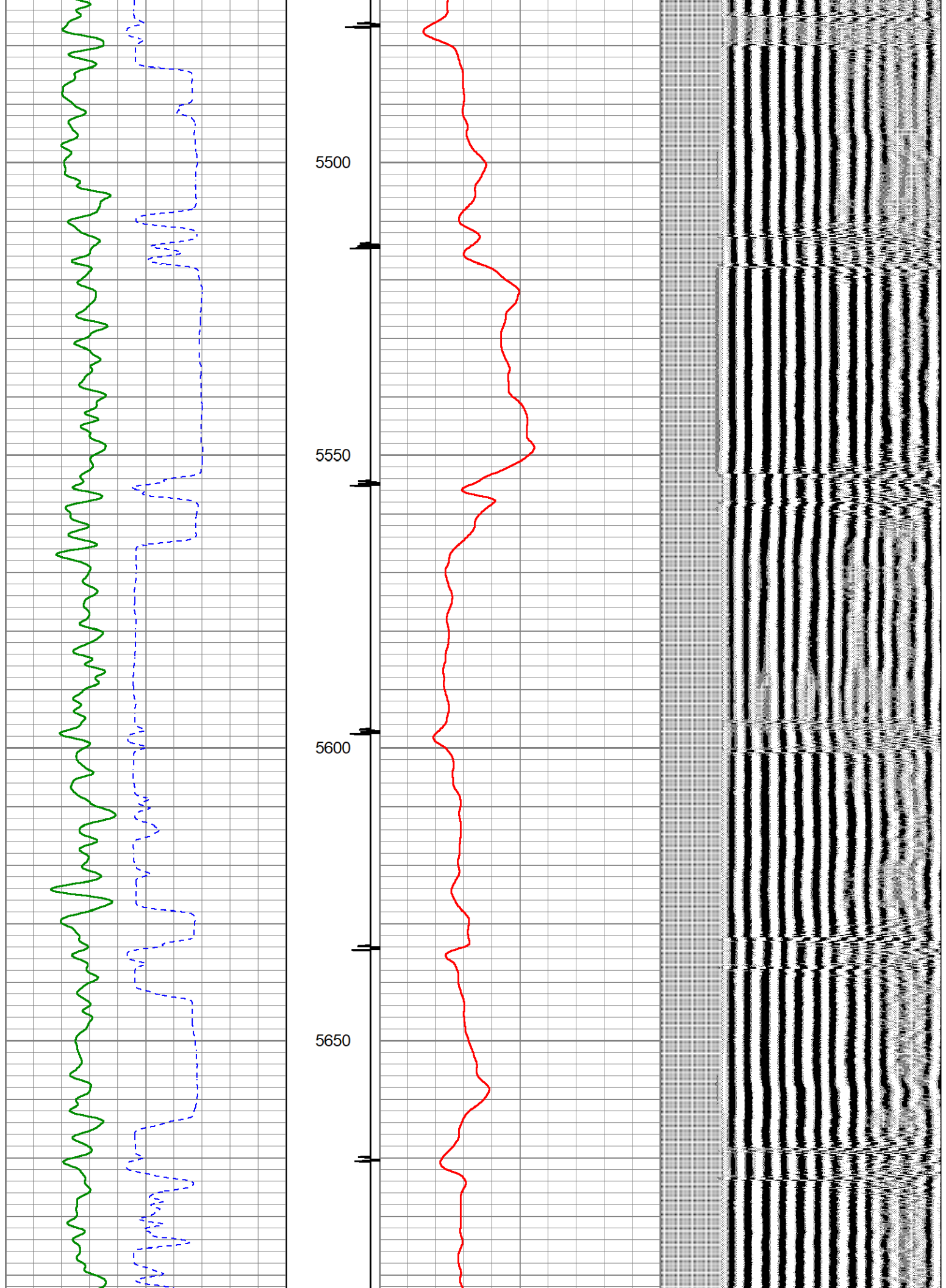
4800

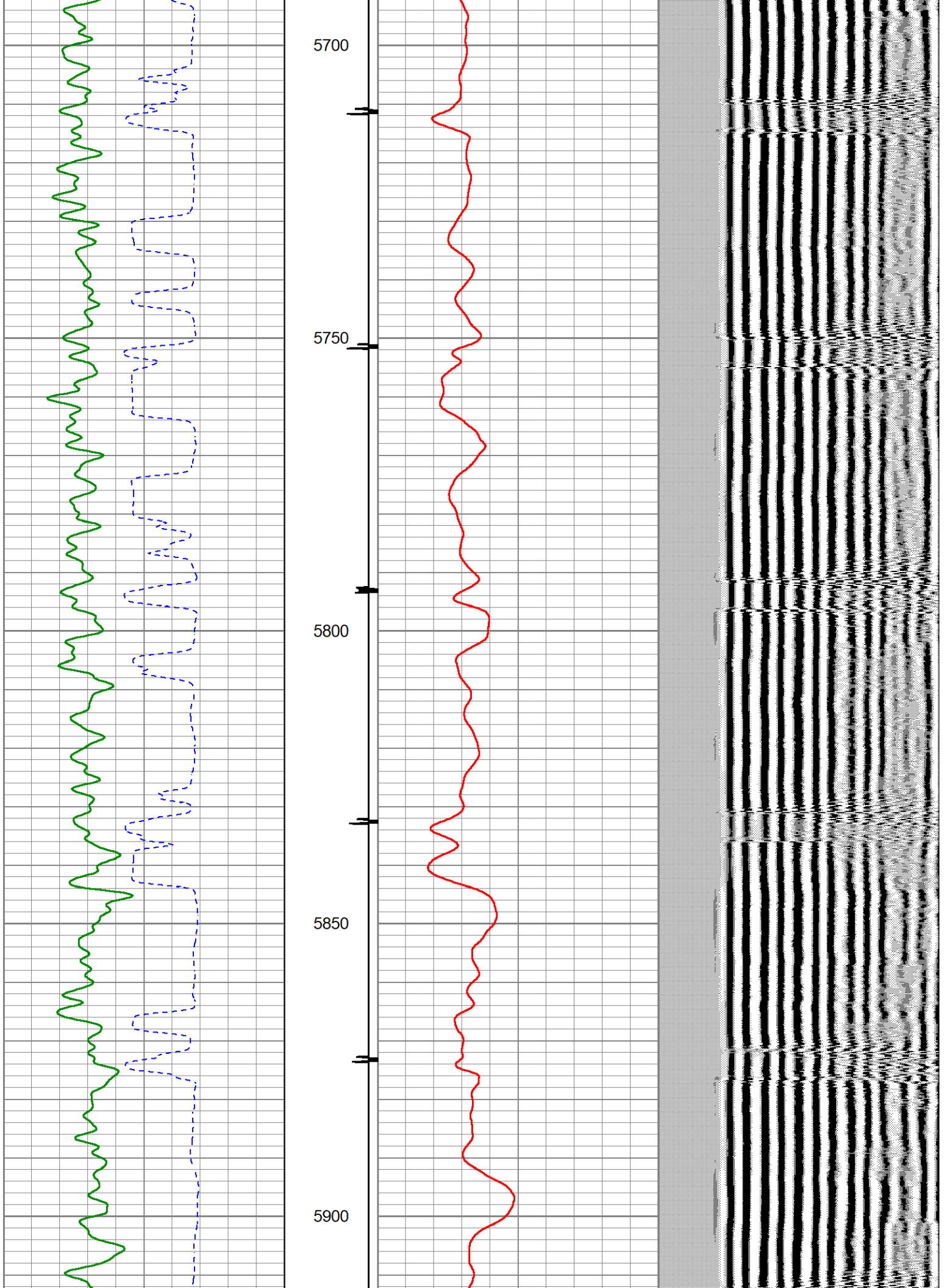


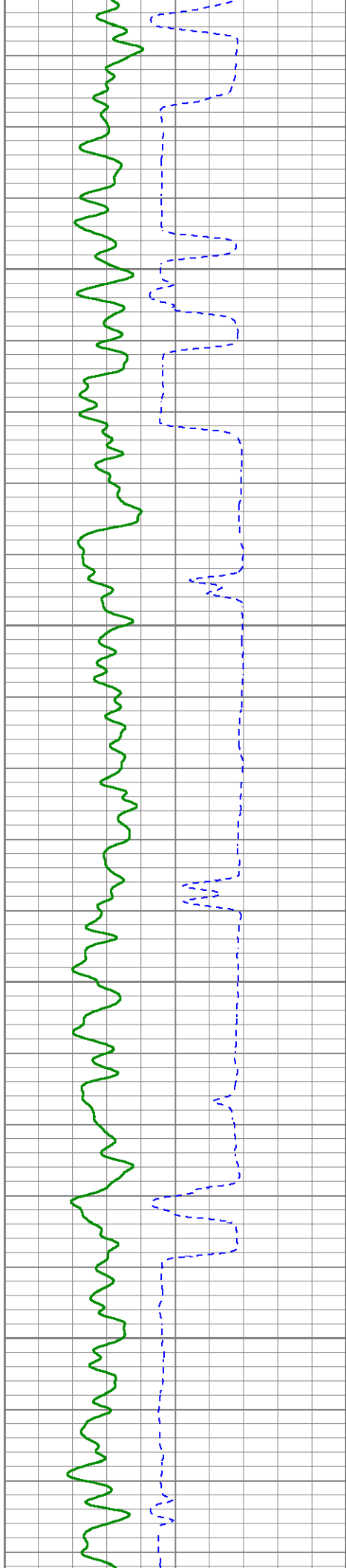










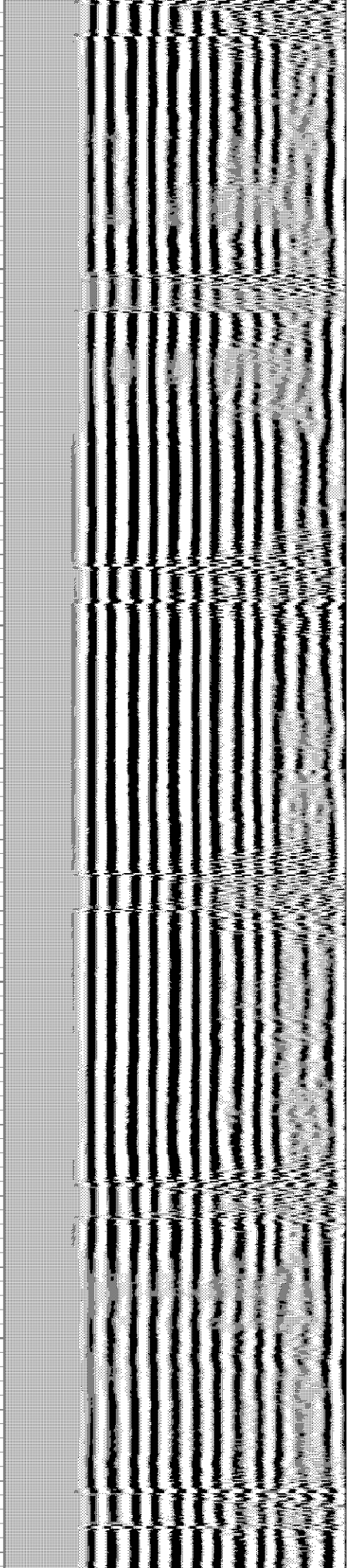
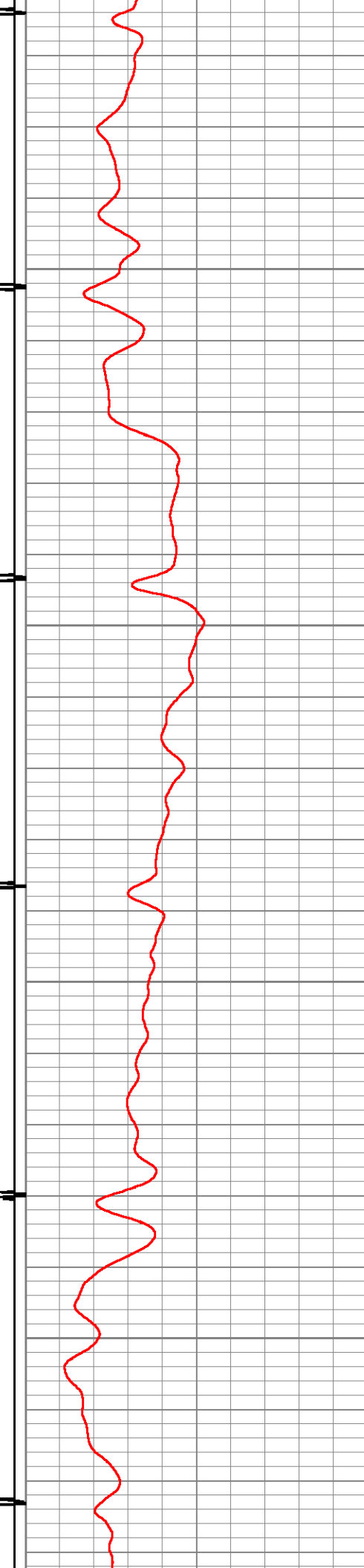


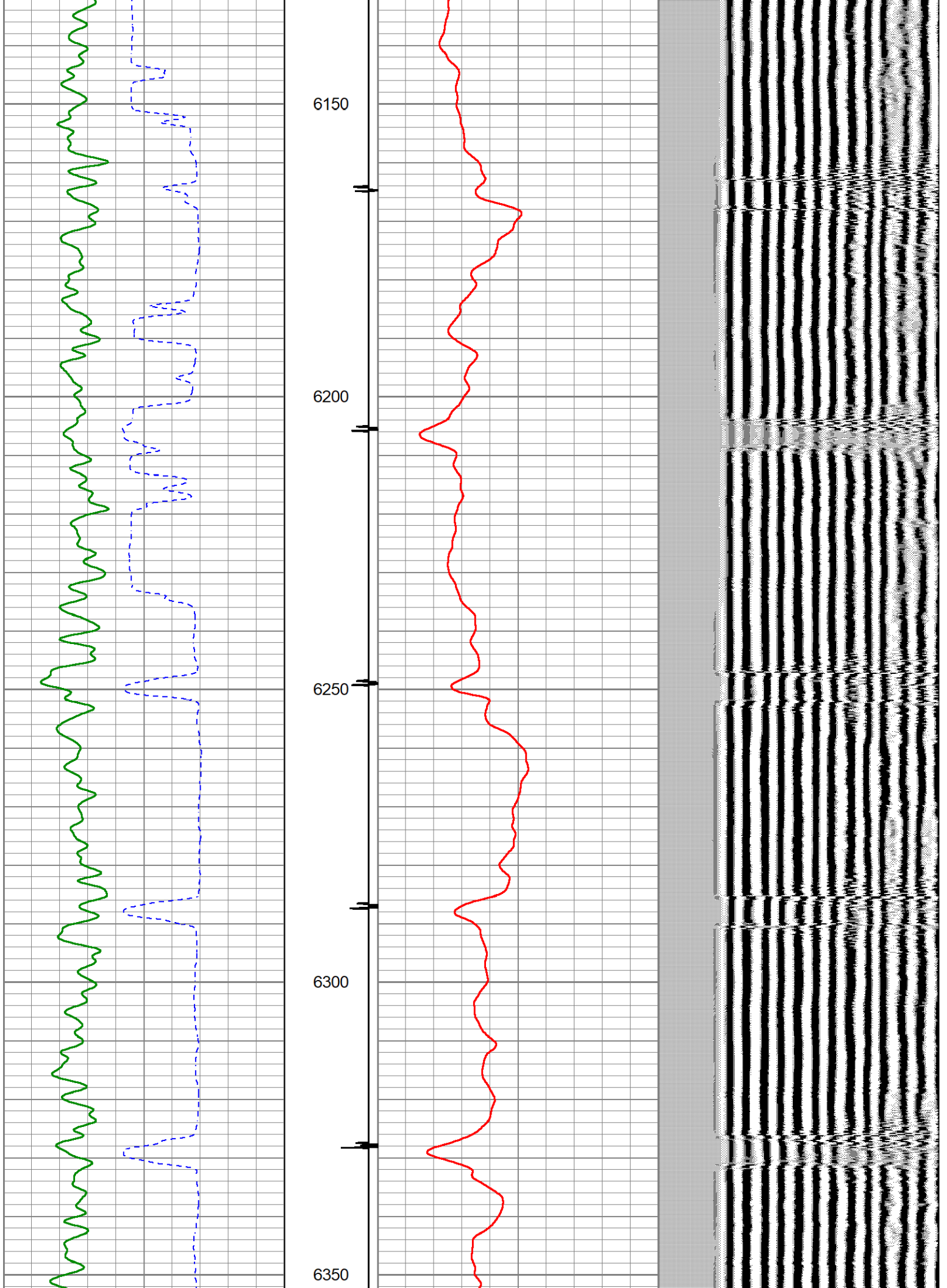
5950

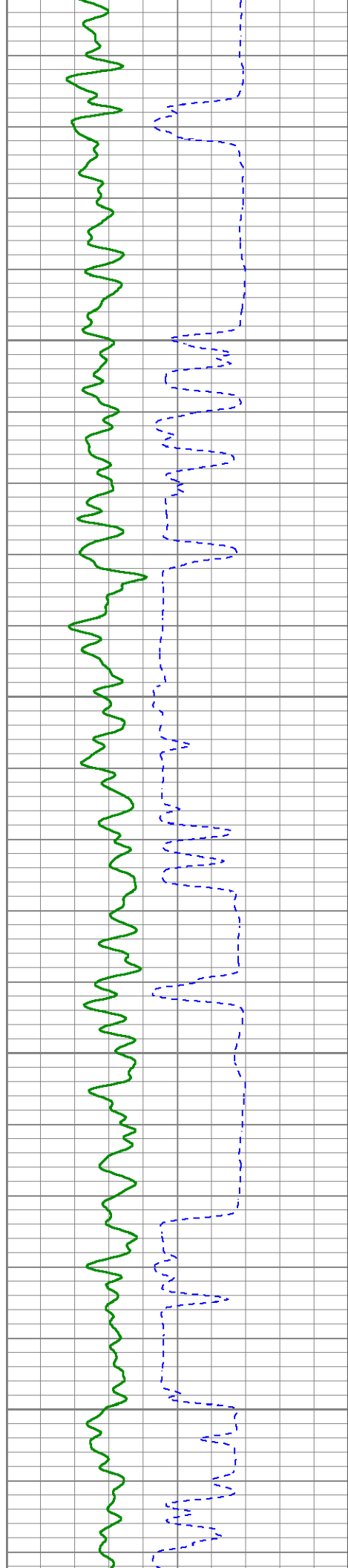
6000

6050

6100





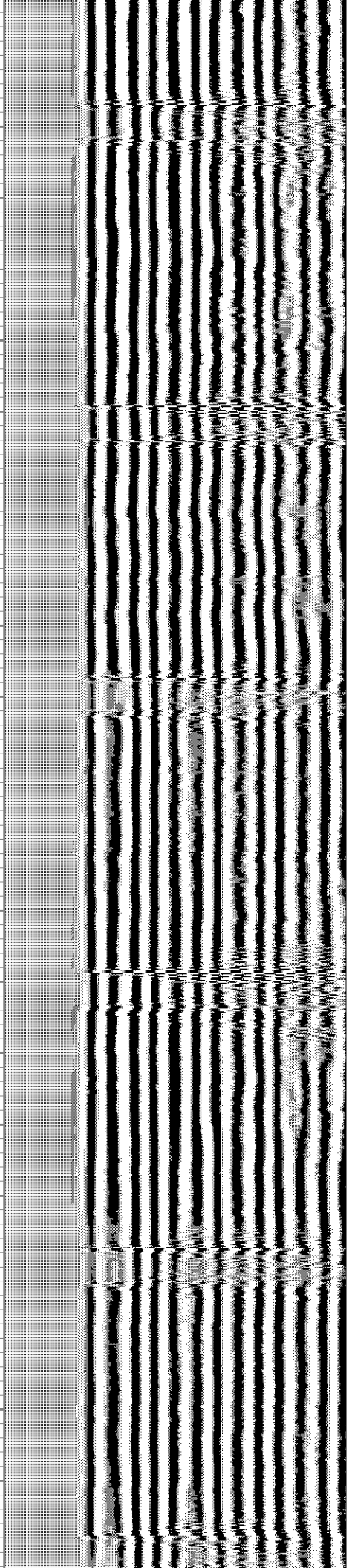
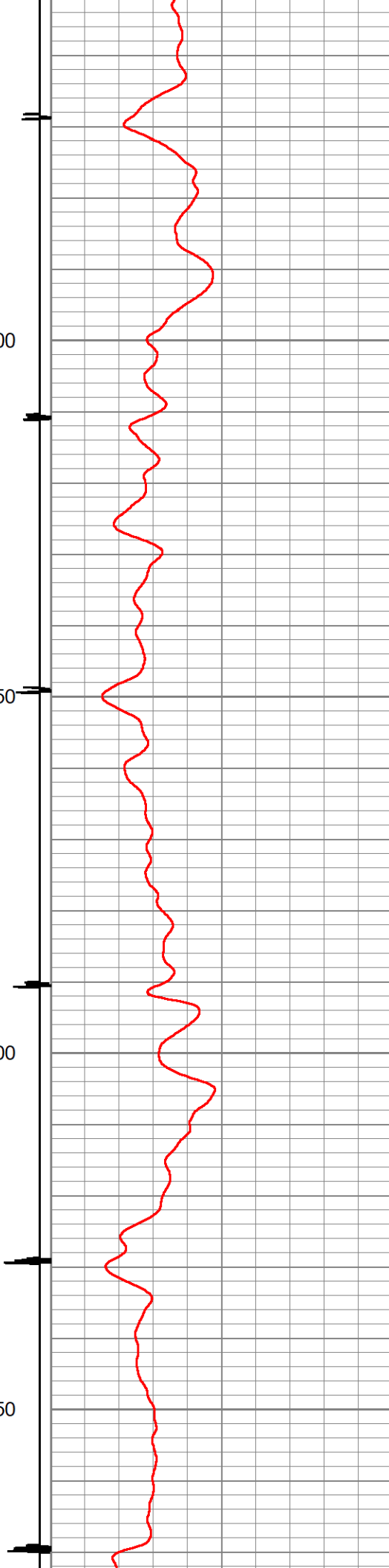


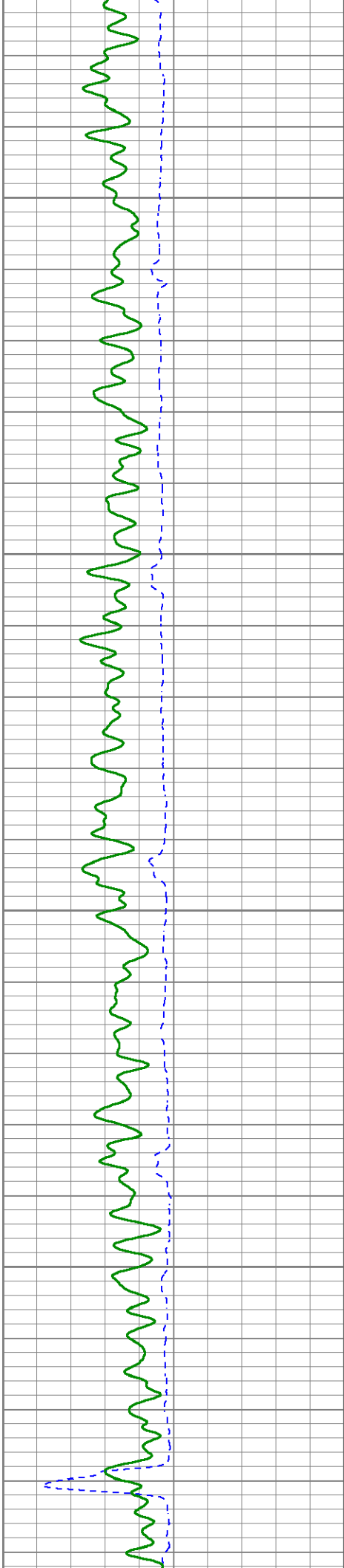
6400

6450

6500

6550



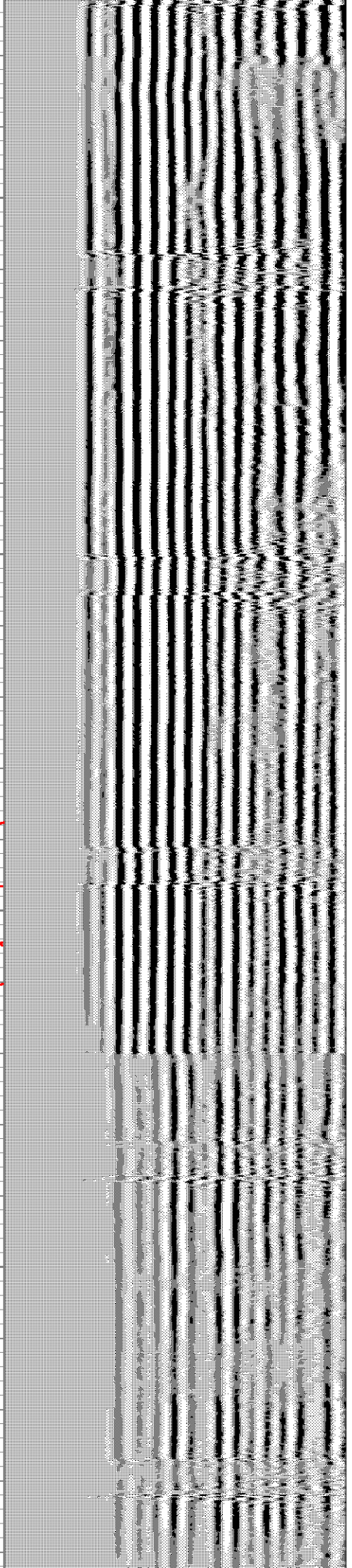
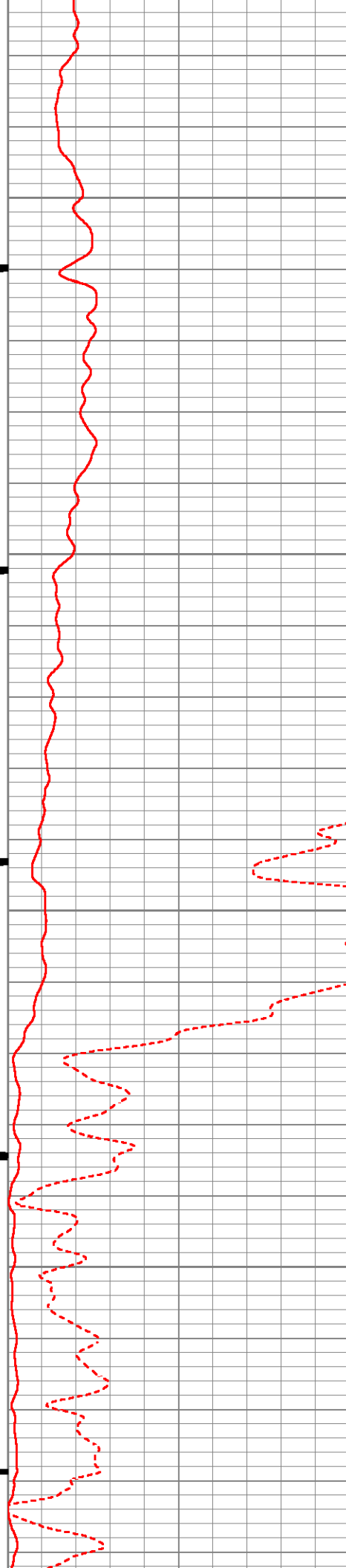
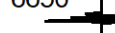
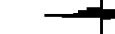


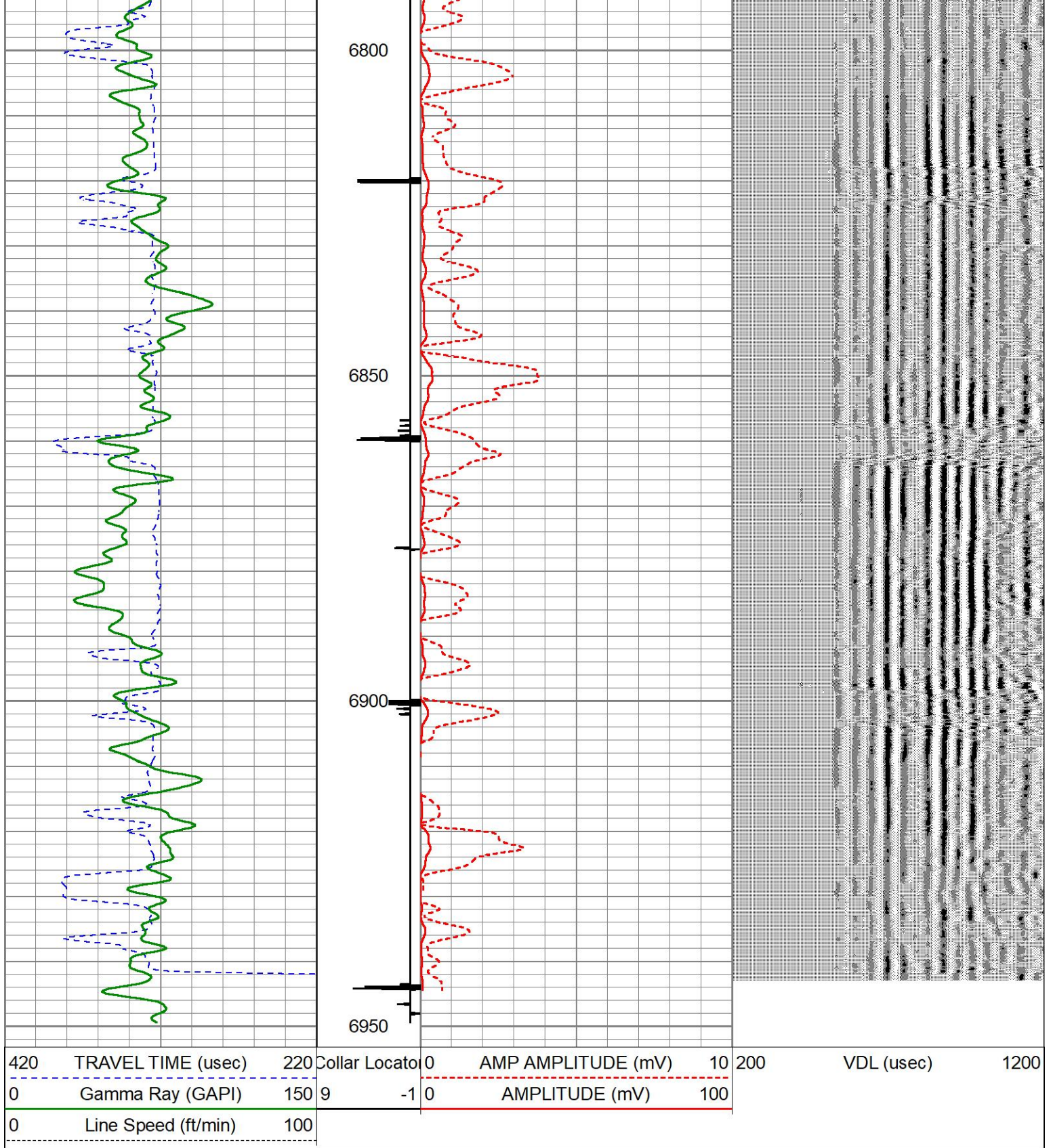
6600

6650

6700

6750

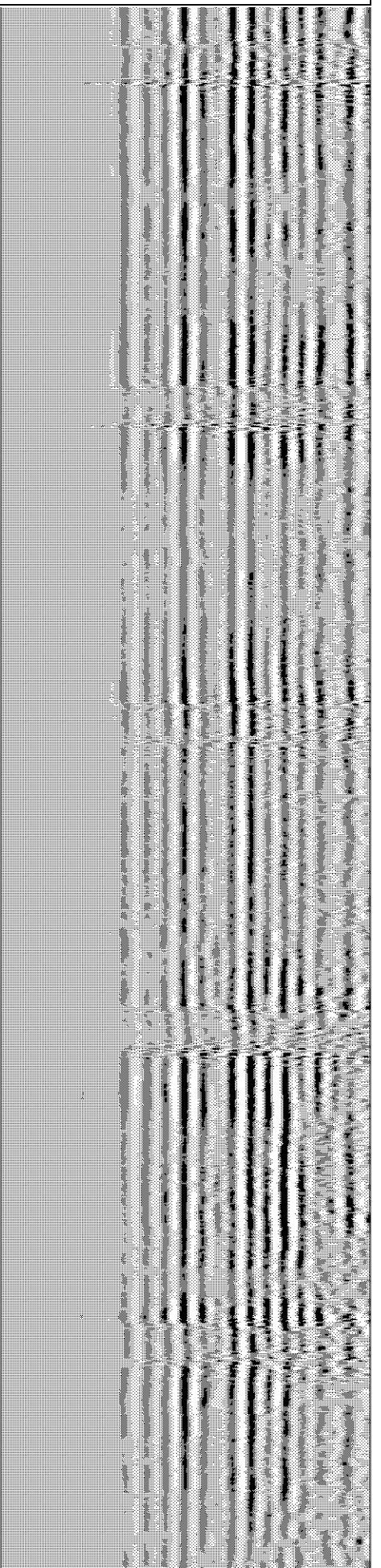
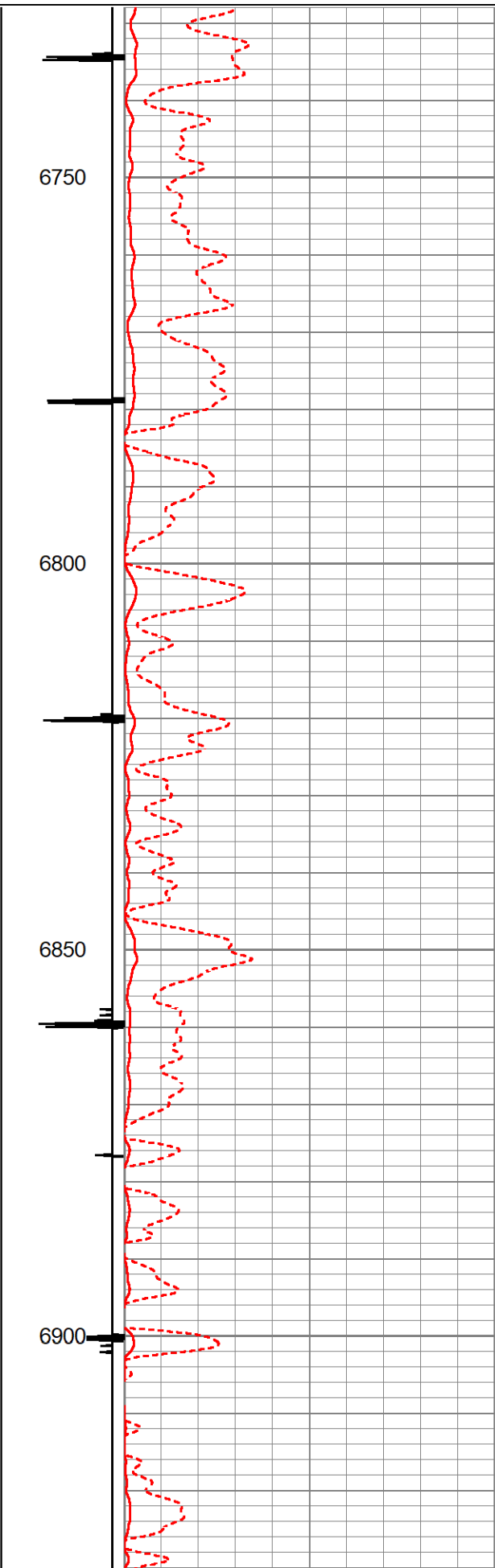
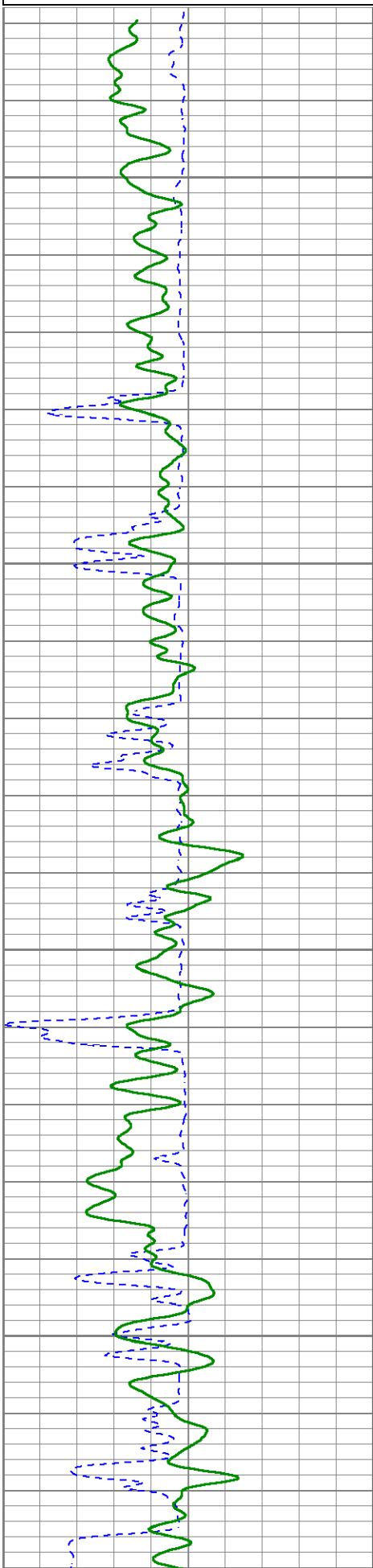


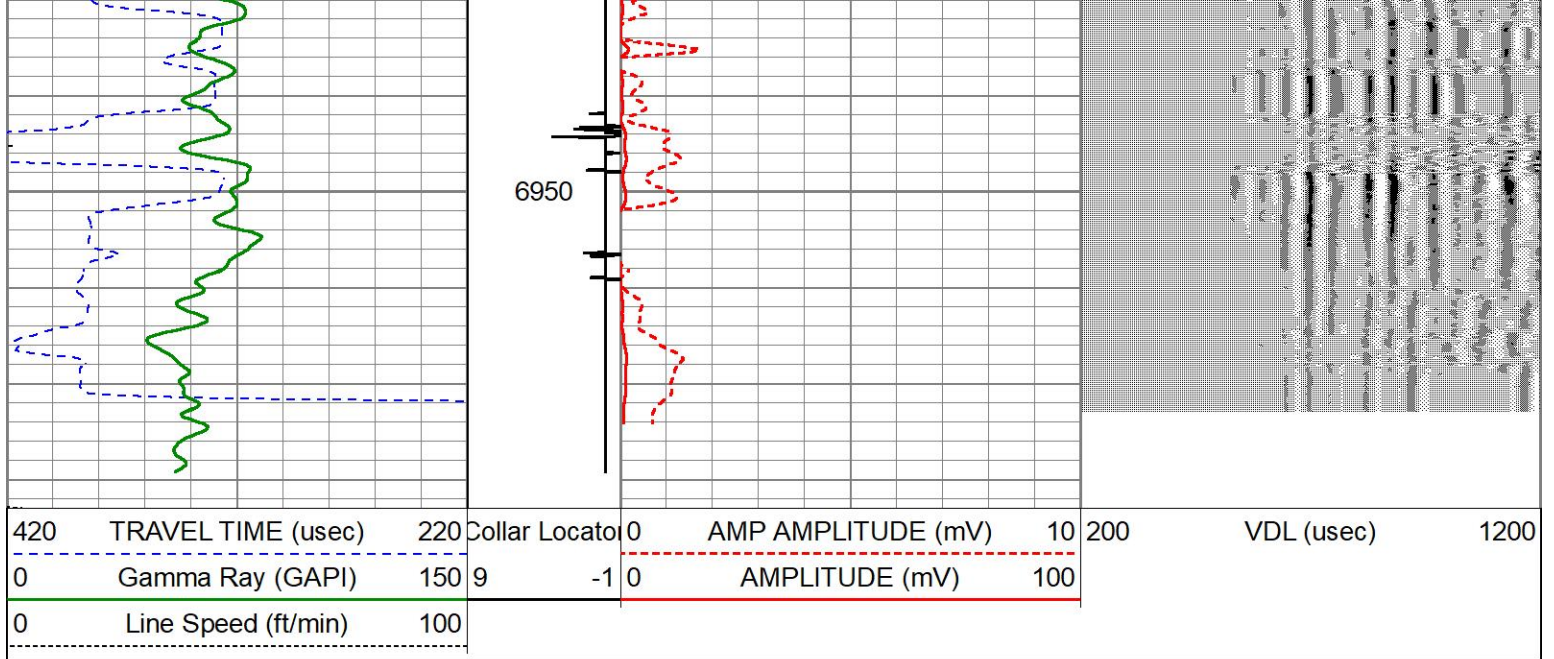


REPEAT PASS

Database File diamond valley east #4.db
 Dataset Pathname pass3
 Presentation Format cbl_kggw
 Dataset Creation Thu May 02 14:51:06 2019
 Charted by Depth in Feet scaled 1:240

420	TRAVEL TIME (usec)	220	Collar Location	0	AMP AMPLITUDE (mV)	10	200	VDL (usec)	1200
0	Gamma Ray (GAPI)	150	9	-1	0	100			
0	Line Speed (ft/min)	100							





Calibration Report

Database File diamond valley east #4.db
 Dataset Pathname pass4
 Dataset Creation Thu May 02 14:56:58 2019

Gamma Ray Calibration Report

Serial Number: FW1211-86
 Tool Model: Probe
 Performed: Mon Feb 03 13:18:32 2014

Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.8000 GAPI/cps

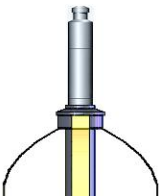
Cement Bond Calibration Report

Serial Number: 080310
 Tool Model: Probe275Digital

Calibration Casing Diameter: 7.000 in
 Calibration Depth: 253.608 ft

Master Calibration, performed Thu May 02 14:47:59 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.312	0.700	62.165	197.143	0.700
5'	0.000	0.302	0.700	62.165	203.476	0.700

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00

			CENT-Probe275 2.75" Centralizer	2.33	2.75	36.00
WVF3FT	11.17		CBL-Probe275Digital (080310) Digital 3' 5' CBL Move voltage to +/- 150 for cal mode	8.75	2.75	100.00
WVF5FT	10.17					
			CENT-Probe275 2.75" Centralizer	2.33	2.75	36.00
CCL	3.64		GR-Probe (FW1211-86) Probe 2 3/4" Logging Gamma Ray GO Pin	4.58	2.75	57.00
GR	0.90					

Dataset: diamond valley east #4.db: field/well/run1/pass4
 Total length: 19.00 ft
 Total weight: 234.00 lb
 O.D.: 2.75 in