

Company		Pioneer Natural Resources	
Well	Cedar 31-19		
Field	Purgatoire River		
County	Las Animas		
State	Colorado		
Company		Pioneer Natural Resources	
Well	Cedar 31-19		
Field	Purgatoire River		
County	Las Animas		State Colorado
Location:		API #: 05 071 09714 00	
SEC 19 TWP 32S RGE 67W		716' FNL & 2076' FEL	
Permanent Datum	Ground Level	Elevation	8151'
Log Measured From	Kelly Bushing 4' AGL		
Drilling Measured From	Kelly Bushing		
Other Services		DEVI	
Date	8-4-11		
Run Number	ONE		
Depth Driller	3314'		
Depth Logger	2225'		
Bottom Logged Interval	2223'		
Top Log Interval	218'		
Open Hole Size	7 7/8		
Type Fluid	water		
Density / Viscosity	///		
Max. Recorded Temp.	///		
Estimated Cement Top	2184'		
Time Well Ready	R.O.A		
Time Logger on Bottom	12:45 P.M.		
Equipment Number	T590		
Location	Trinidad		
Recorded By	C. Sisneros		
Witnessed By	Mr. Terry Beasley		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
Casing Record	Size	Wgt/Ft	Top Bottom
Surface String	8 5/8"		00 612'
Prot. String			
Production String	5 1/2"		00 TD
Liner			

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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

Directions:

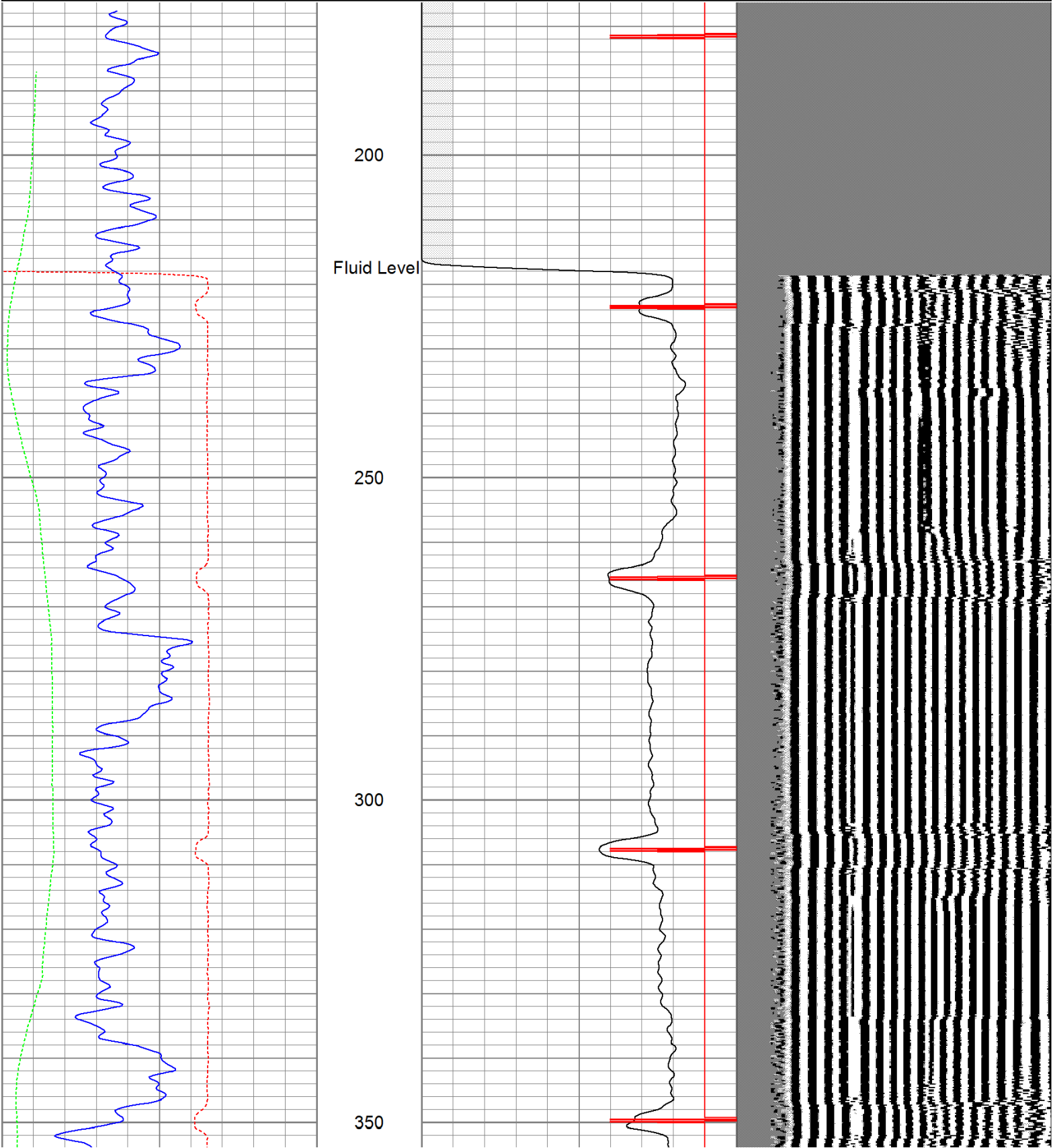
Wet canyon, seventh left after fire station (Morrison Ridge sign on right side of road by mail boxes), go over yellow cattle gaurd, stay straight, drive past the lightning location, next right, go thru double green gates, drive past A frame cabin, drive thru double green gates, at Y Stay left, stay on road, dead end on location.

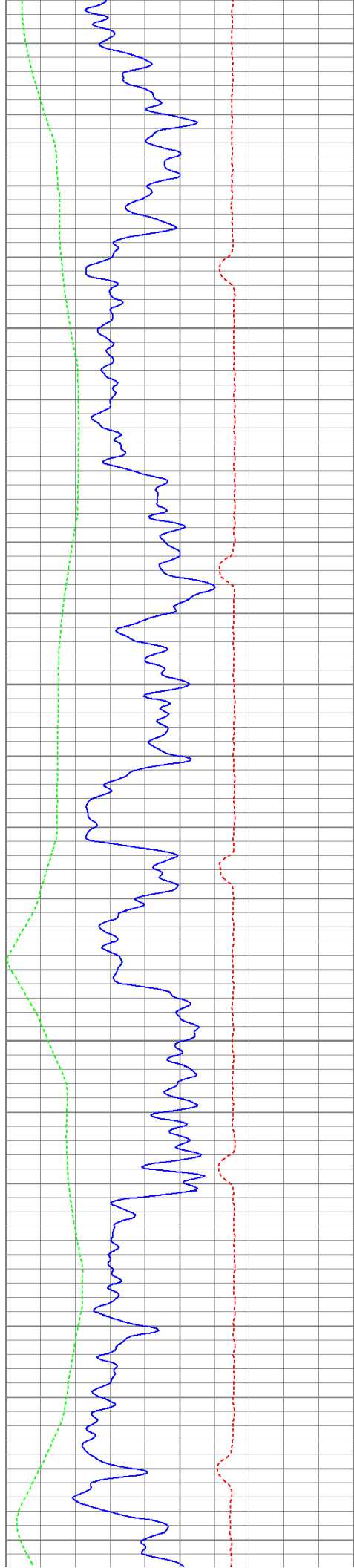
Database File: cedar8411b.db
Dataset Pathname: pass2
Presentation Format: cbldig
Dataset Creation: Thu Aug 04 12:59:35 2011 by Log Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200
0	GR (GAPI)	200
0	DEVI (°)	10

0	Amplitude (mV)	100
9	Collar Locator	-1

200 Variable Density 1200



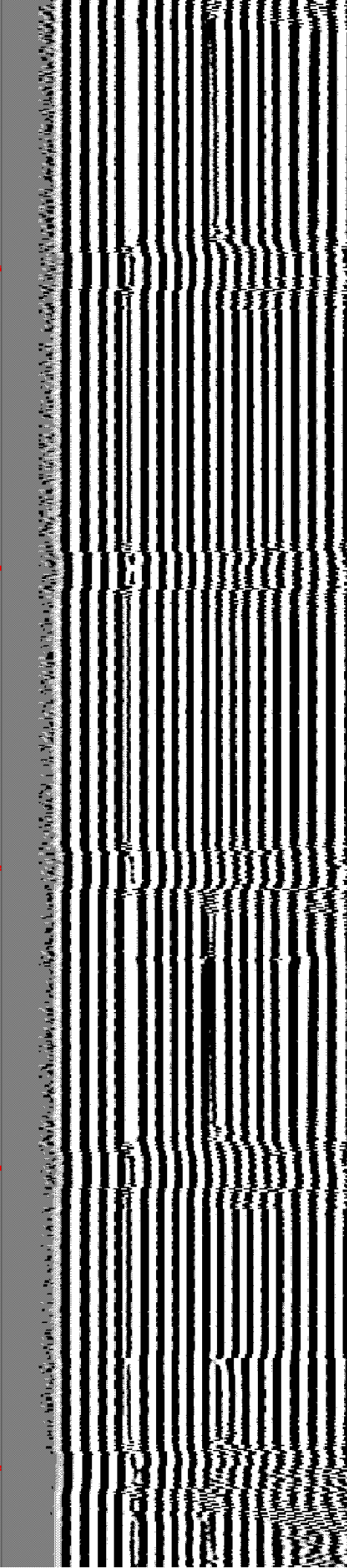
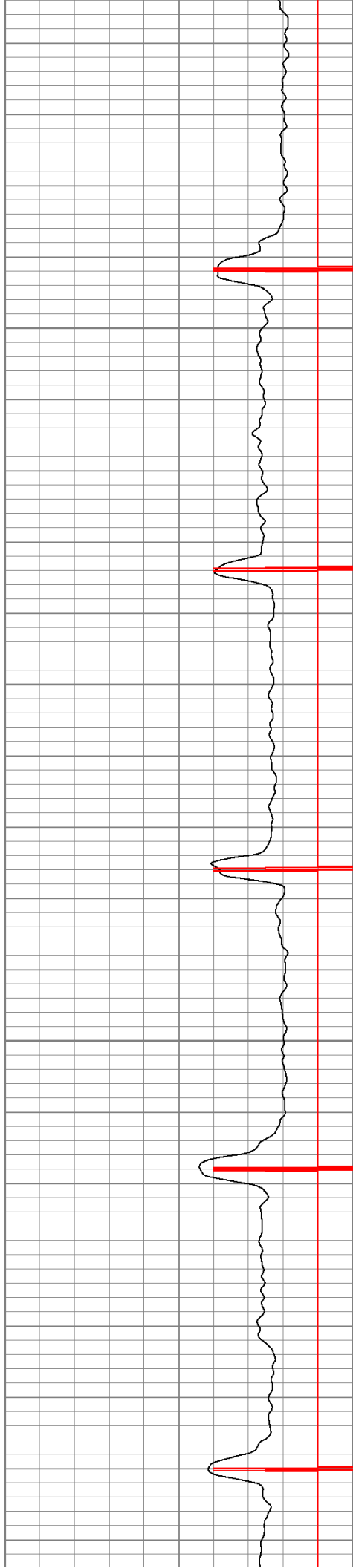


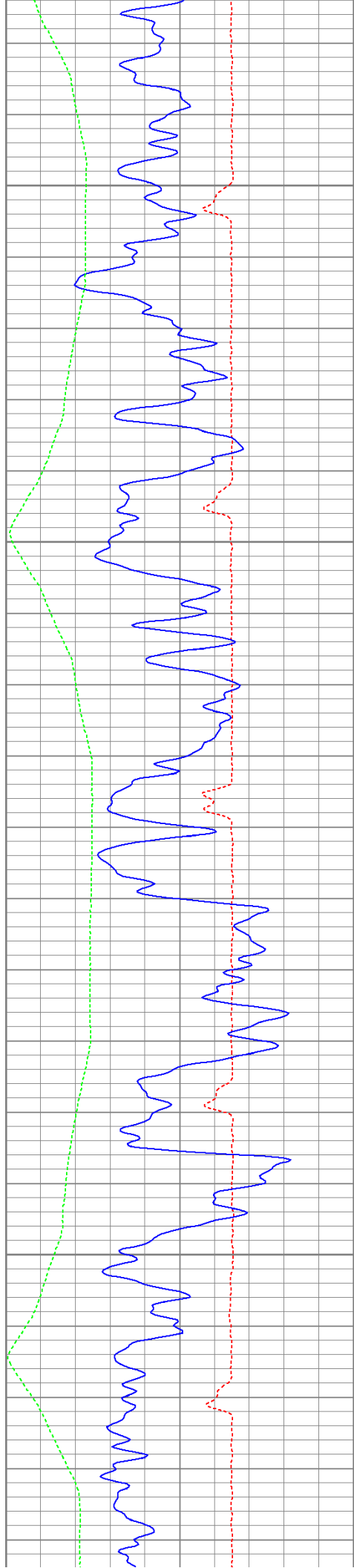
400

450

500

550



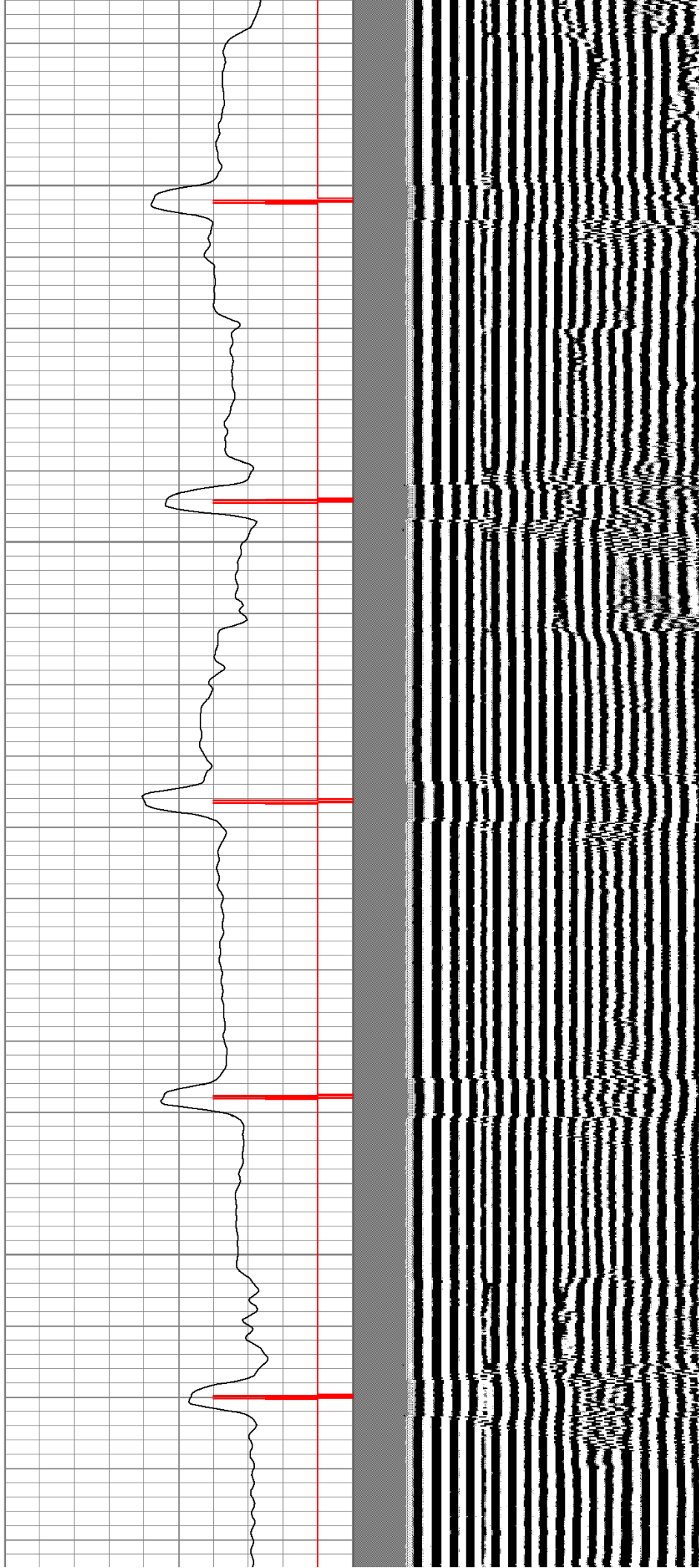


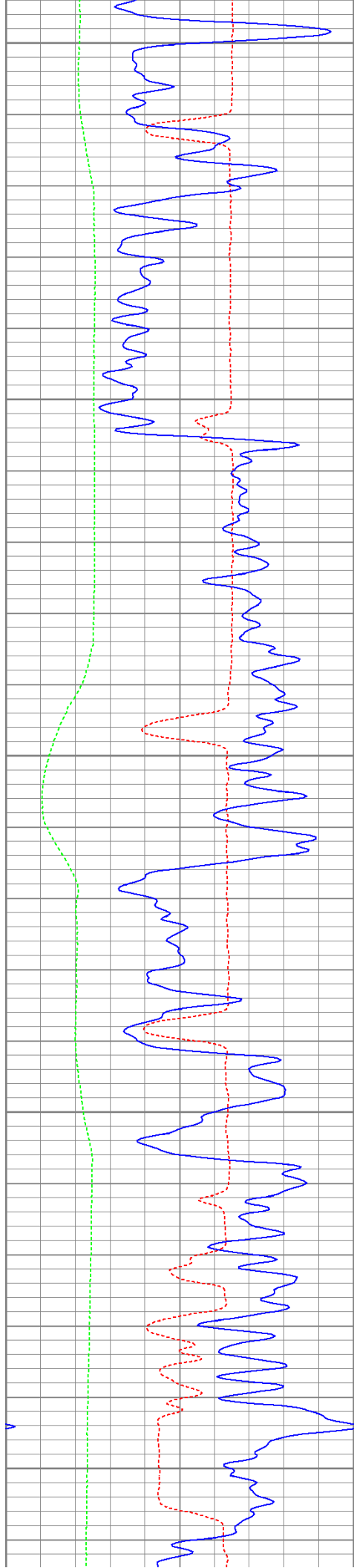
600

650

700

750





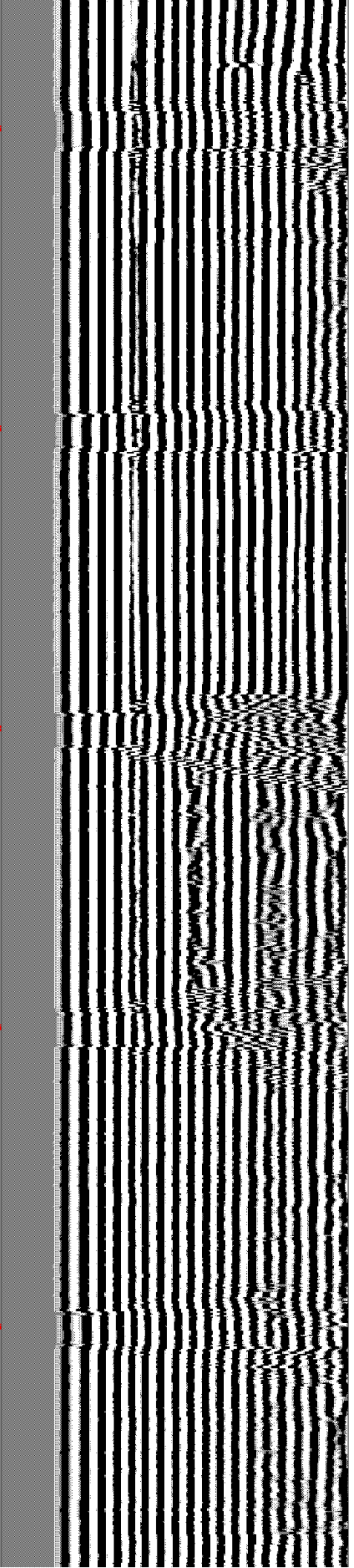
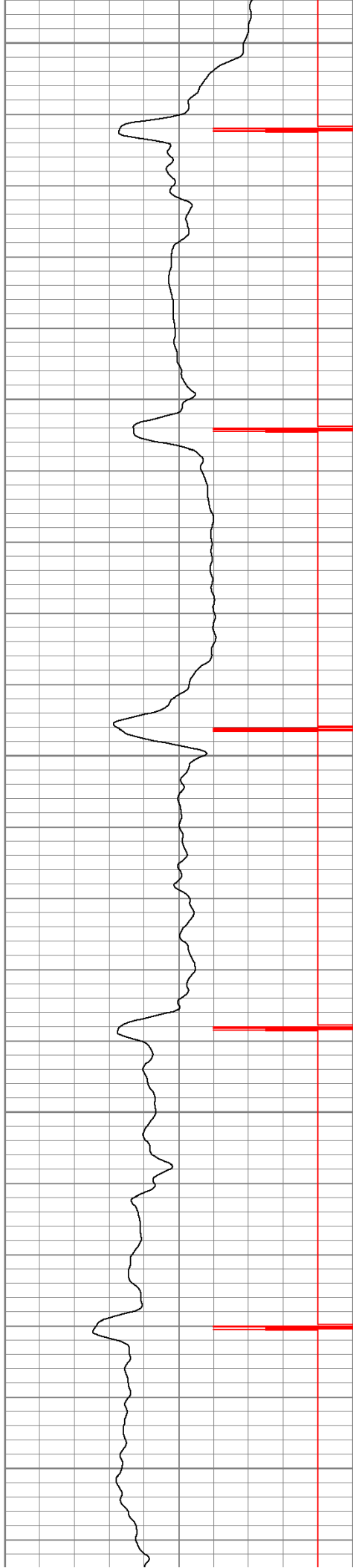
800

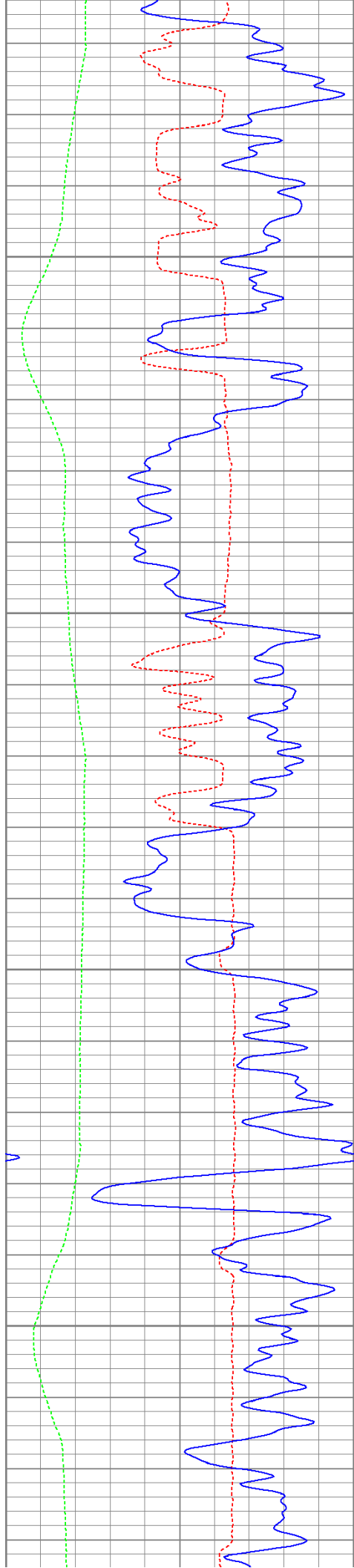
850

900

950

1000



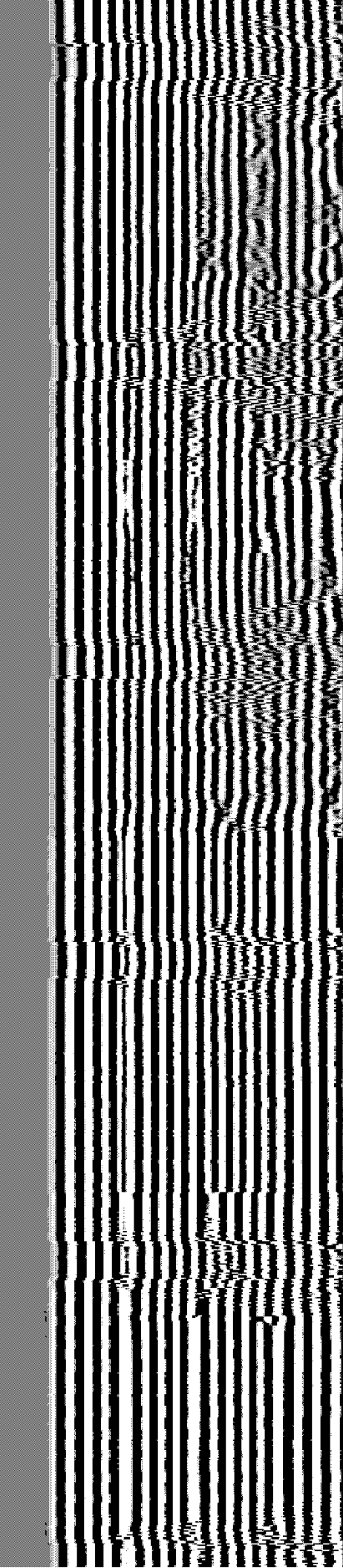
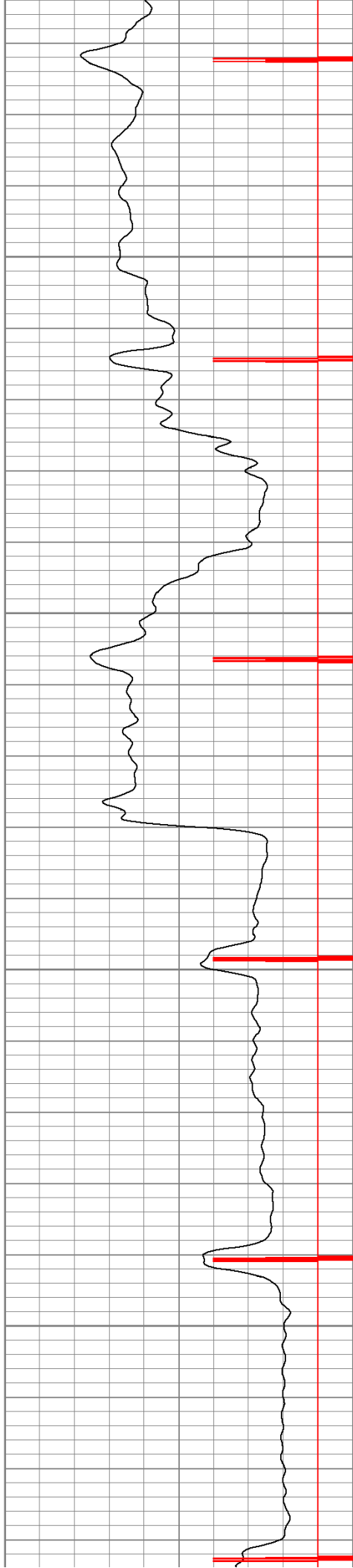


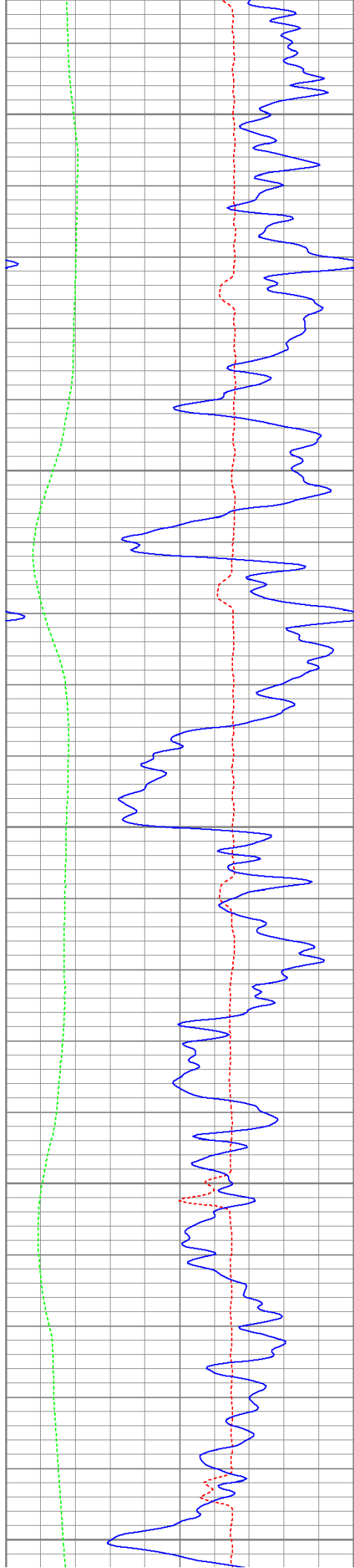
1050

1100

1150

1200





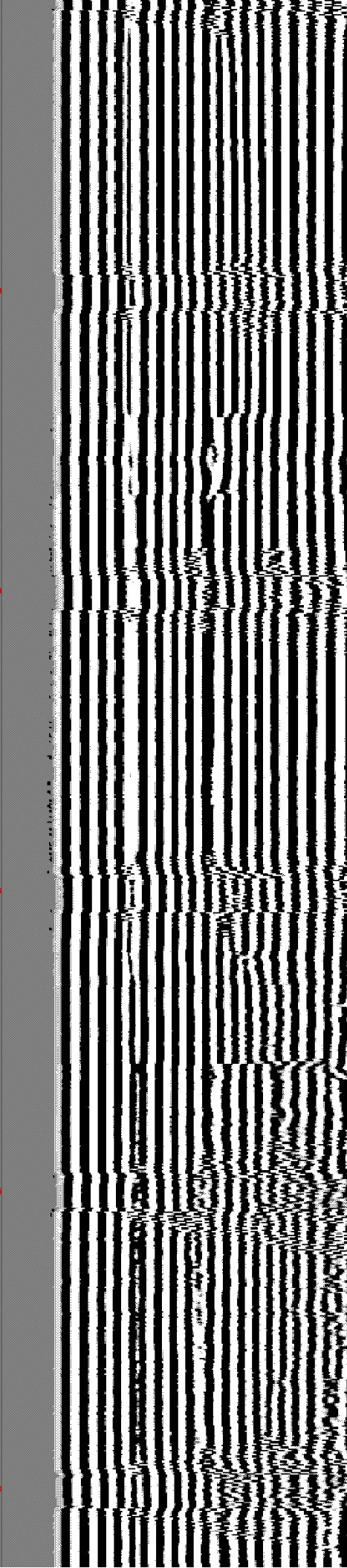
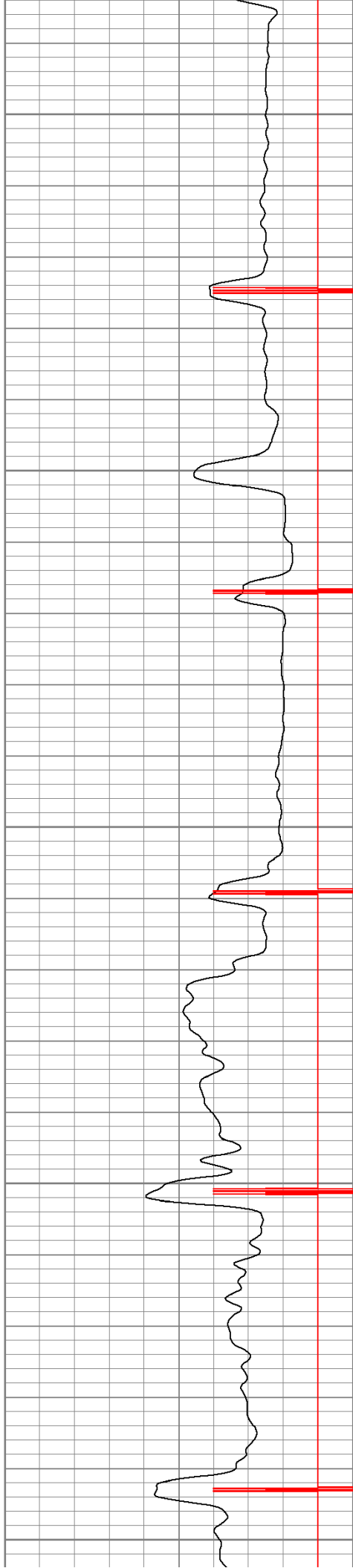
1250

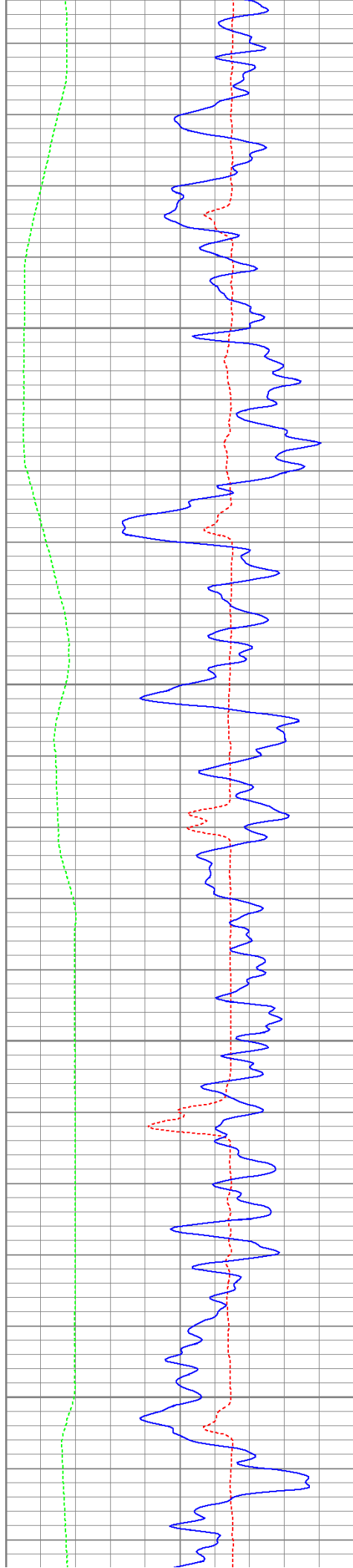
1300

1350

1400

1450



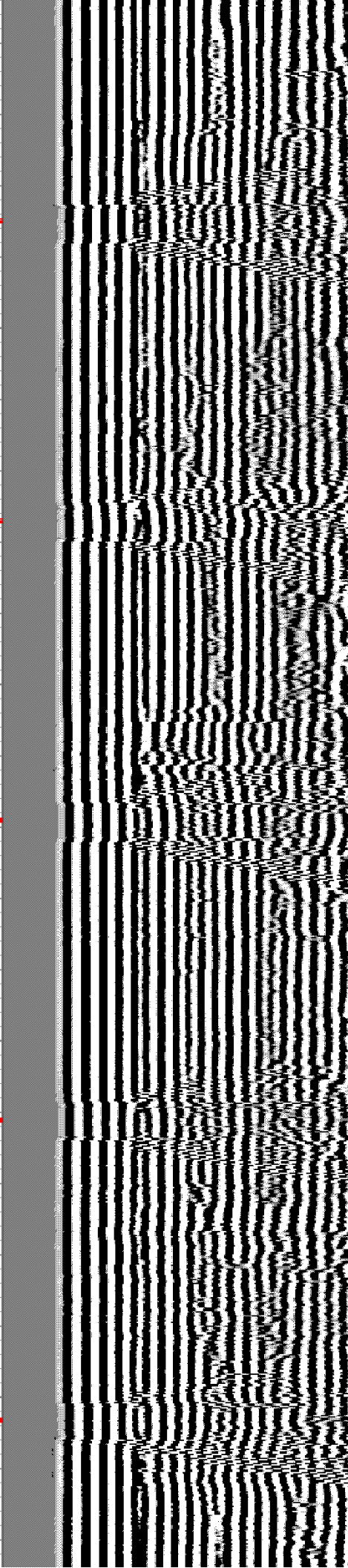
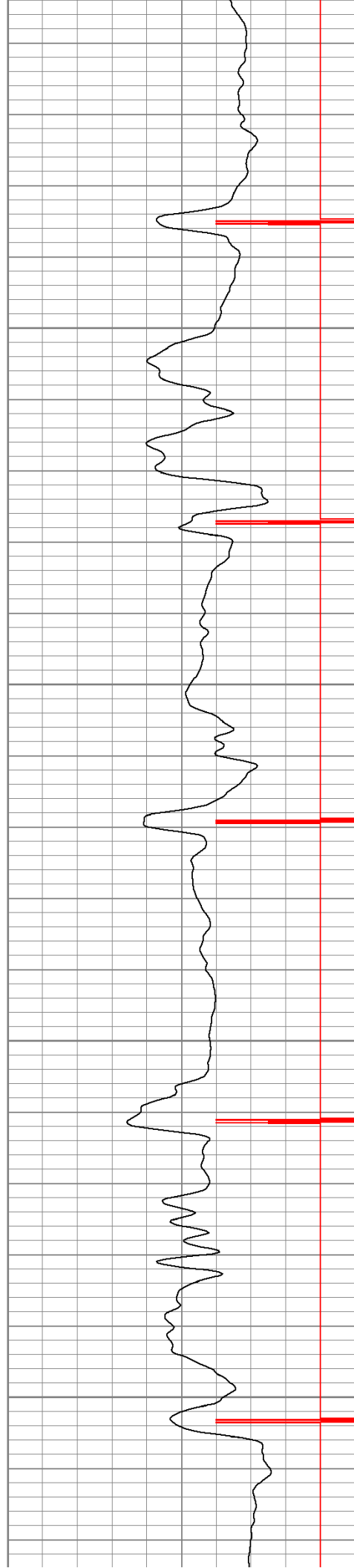


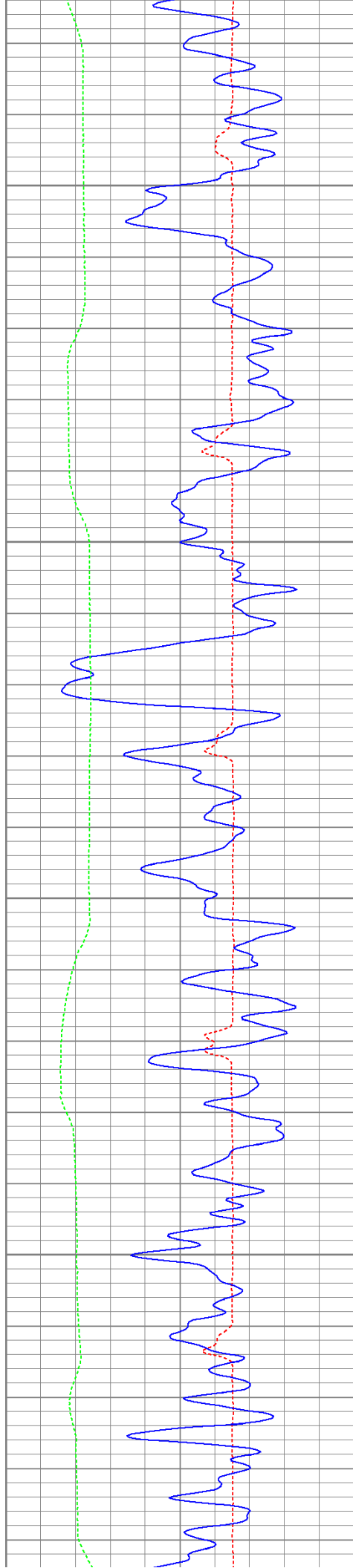
1500

1550

1600

1650



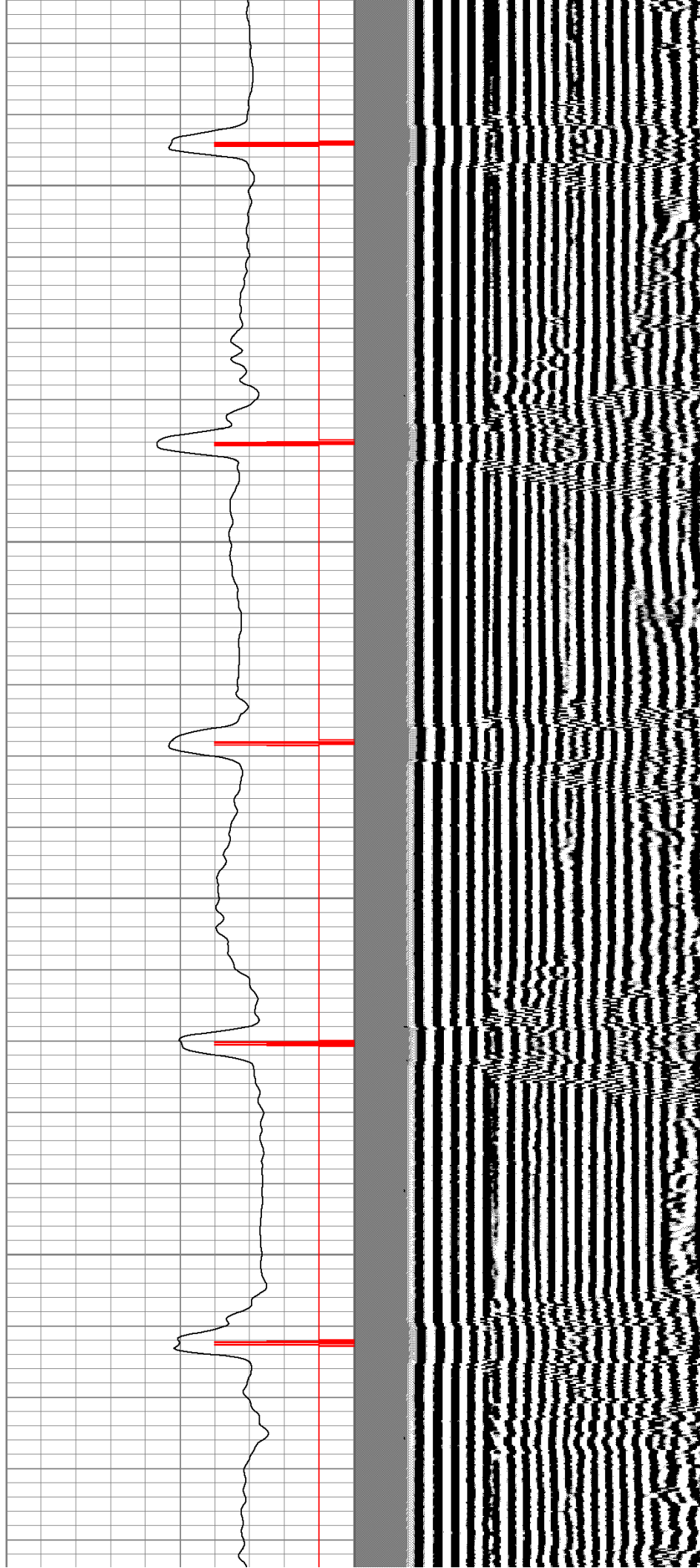


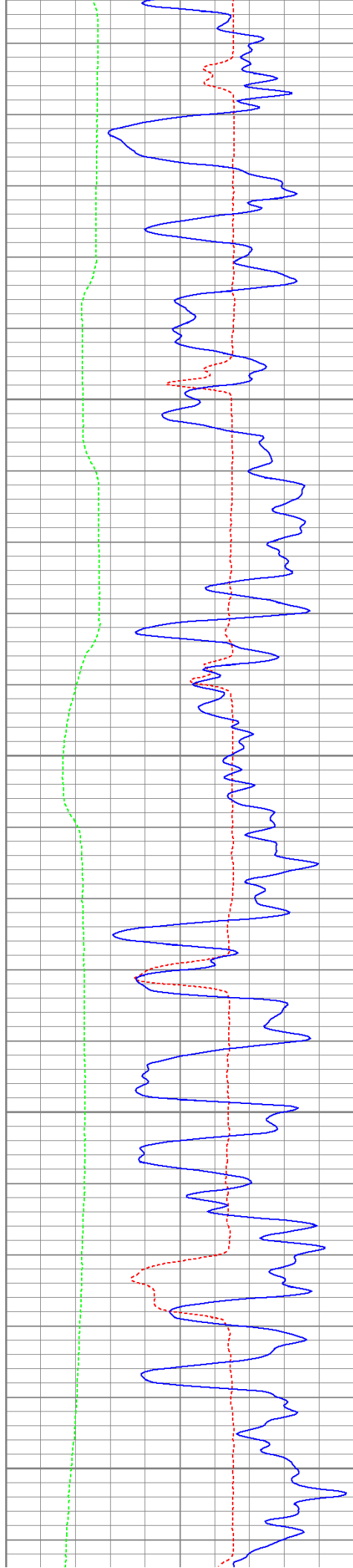
1700

1750

1800

1850





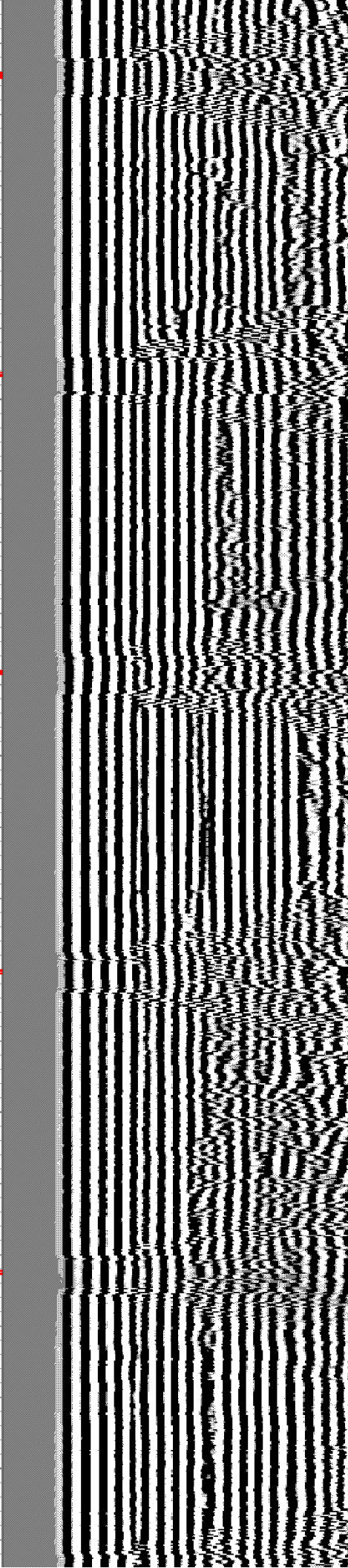
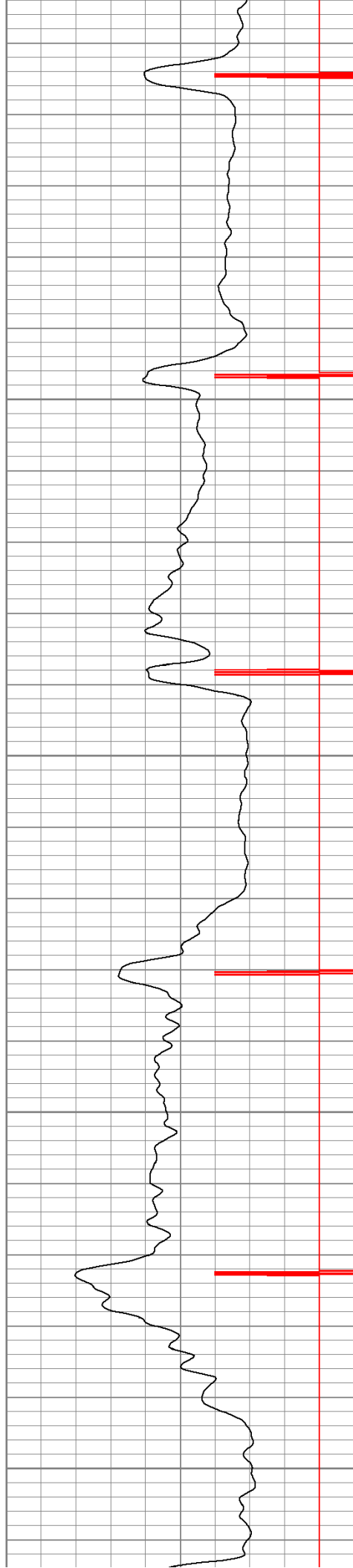
1900

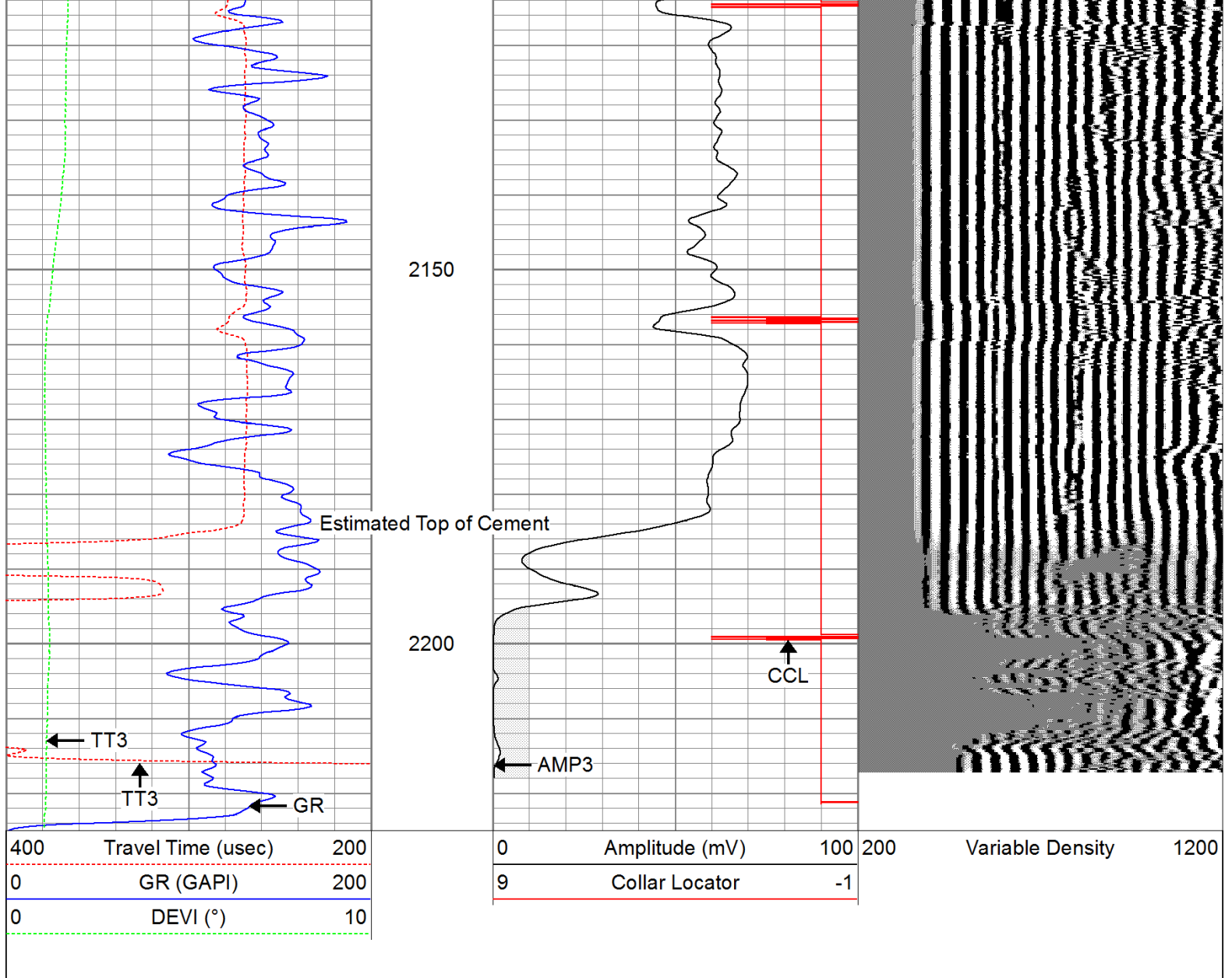
1950

2000

2050

2100

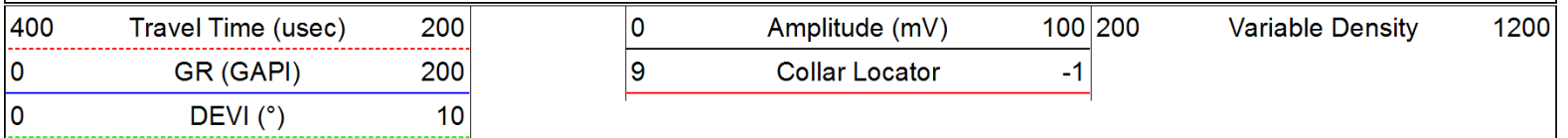


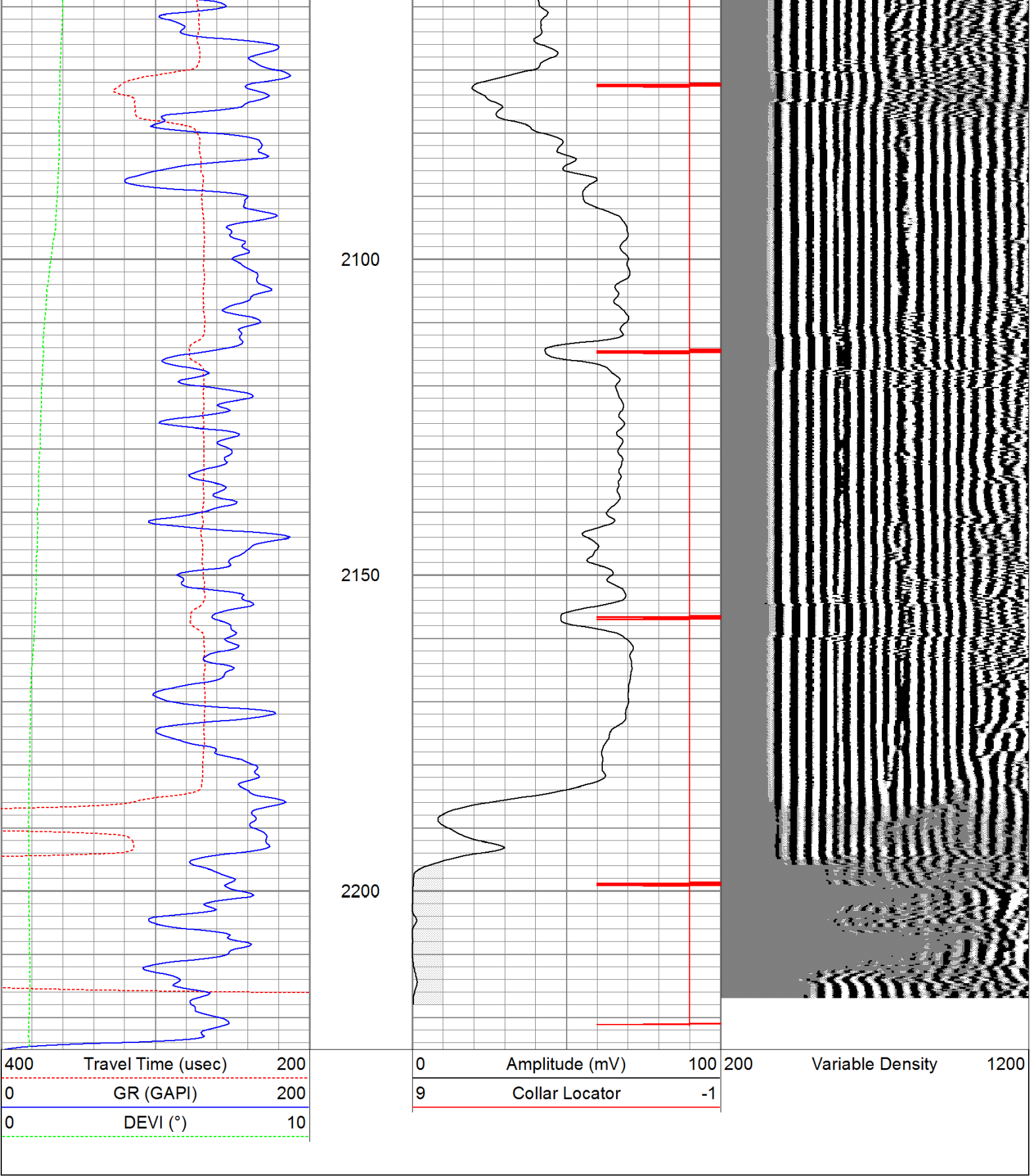


The Perforators
LLC

Repeat Pass

Database File: cedar8411b.db
 Dataset Pathname: pass1.1
 Presentation Format: cblidig
 Dataset Creation: Thu Aug 04 13:14:32 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: cedar8411b.db
Dataset Pathname: pass1
Dataset Creation: Thu Aug 04 12:53:24 2011 by Log Open-Cased 110302

Gamma Ray Calibration Report

Serial Number: 080616
Tool Model: 275D-INC

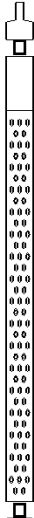
Tool Model:	275D_INC	
Performed:	Wed May 04 17:31:09 2011	
Calibrator Value:	200.0	GAPI
Background Reading:	50.0	cps
Calibrator Reading:	250.0	cps
Sensitivity:	1.0000	GAPI/cps

Inclinometer Calibration Report

Performed:	Wed May 04 17:39:54 2011				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-3585.20	3595.40	-1.00	1.00	gee
Y Accelerometer	-3619.40	3520.00	-1.00	1.00	gee
Z Accelerometer					

Cement Bond Log Calibration Report

Serial Number:	081024		
Tool Model:	PROBEDIGITALCBL		
Performed:	Tue Jul 19 09:25:23 2011		
Depth:	93.4615	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	85	85	mV
Reading at Signal Zero:	-0.00874023	-0.0092041	V
Reading in Free Pipe:	1.72476	1.66304	V
Gain:	49.0339	50.83	
Offset:	0.428567	0.467844	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
			Star	0.29	1.50	0.50
WVF3	9.04		CBL-PROBEDIGITALCBL (081024) PROBE DIGITAL CBL	8.75	2.75	106.50
WVF5	8.04					
			Star	0.29	1.50	0.50
CCL	3.50		GR-275D_INC (080616) 2-3/4" GR-CCL with Inclination	4.50	2.75	50.00
ACCX	1.83					
ACCY	1.83					
ACCZ	1.83					

GR	0.83					
<p>Dataset: cedar8411b.db: field/well/run1/pass1</p> <p>Total Length: 14.58 ft</p> <p>Total Weight: 162.50 lb</p> <p>O.D. 2.75 in</p>						