



**Cement Bond
Variable Density Log
W/ Gamma Ray/CCL**

Company		Bonanza Creek Energy	
Well		State Seventy Holes A-E-3HNB	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API # : 05-123-38883	
Permanent Datum		SEC 3 TWP 4N RGE 62W	
Log Measured From		Ground Level Elevation 4534'	
Drilling Measured From		Kelly Bushing 16' APD	
		Elevation K.B. 4550' D.F. 4549' G.L. 4534'	
Date		4/19/2014	
Run Number		1	
Depth Driller		-	
Depth Logger		6222'	
Bottom Logged Interval		6209'	
Top Log Interval		Surface	
Open Hole Size		8.75	
Type Fluid		Fresh Water	
Density / Viscosity		8.33	
Max. Recorded Temp.		-	
Estimated Cement Top		Surface	
Time Well Ready		1303	
Time Logger on Bottom		1332	
Equipment Number		13033	
Location		Brighton	
Recorded By		N.Menchaca	
Witnessed By		K.Bunker	
C.Rail			
Run Number			
Bit		From To	
Size		Weight From To	
Casing Record		Top Bottom	
Surface String		9 5/8" 36# 0 403'	
Prot. String		7" 26# 0 6421'	
Production String			
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

Primary Log on this Well

Main Pass and Repeat Pass logged with 0 PSI

Logged from 16' Kelly Bushing

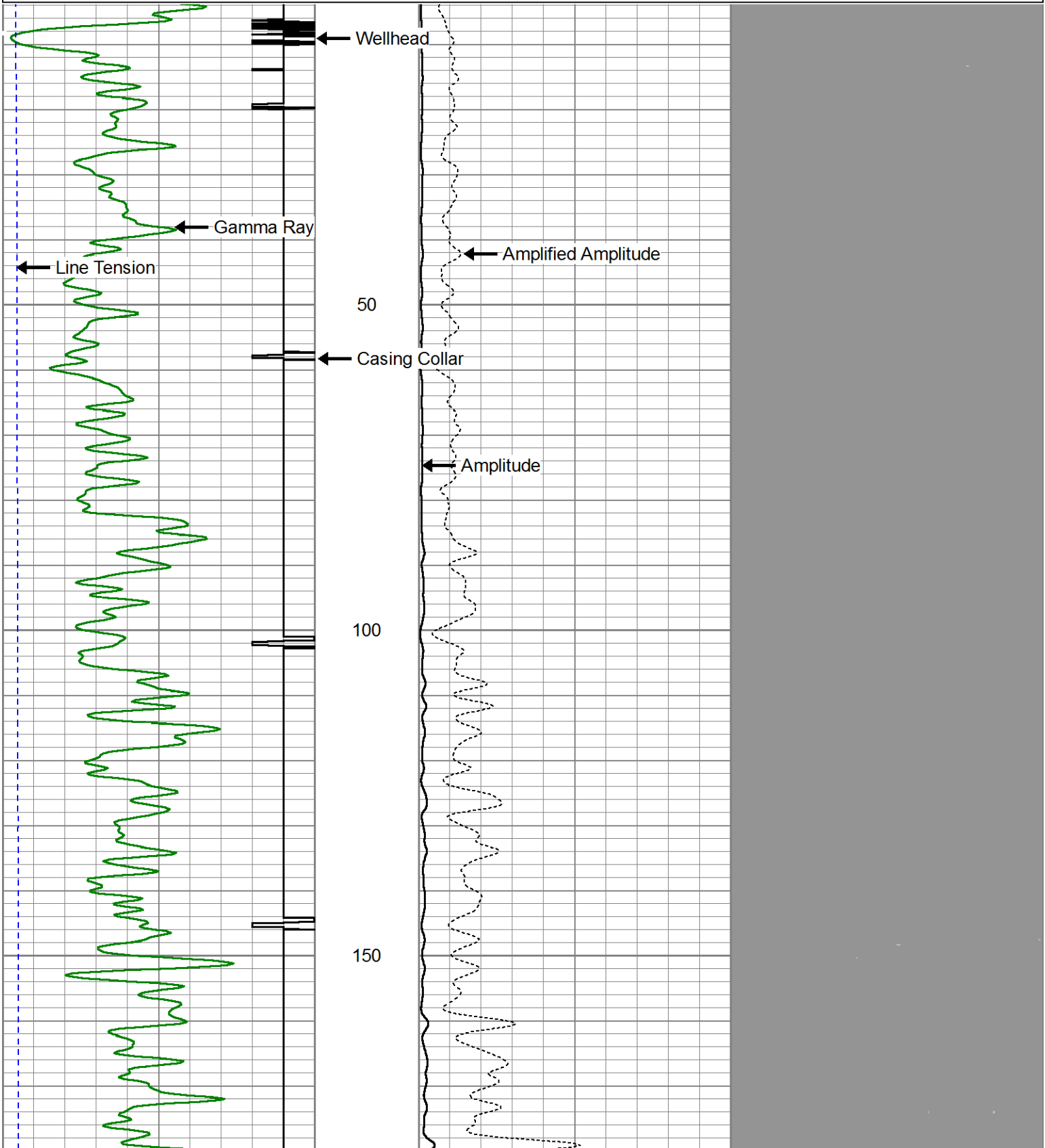
Logging Speed Requested by Company

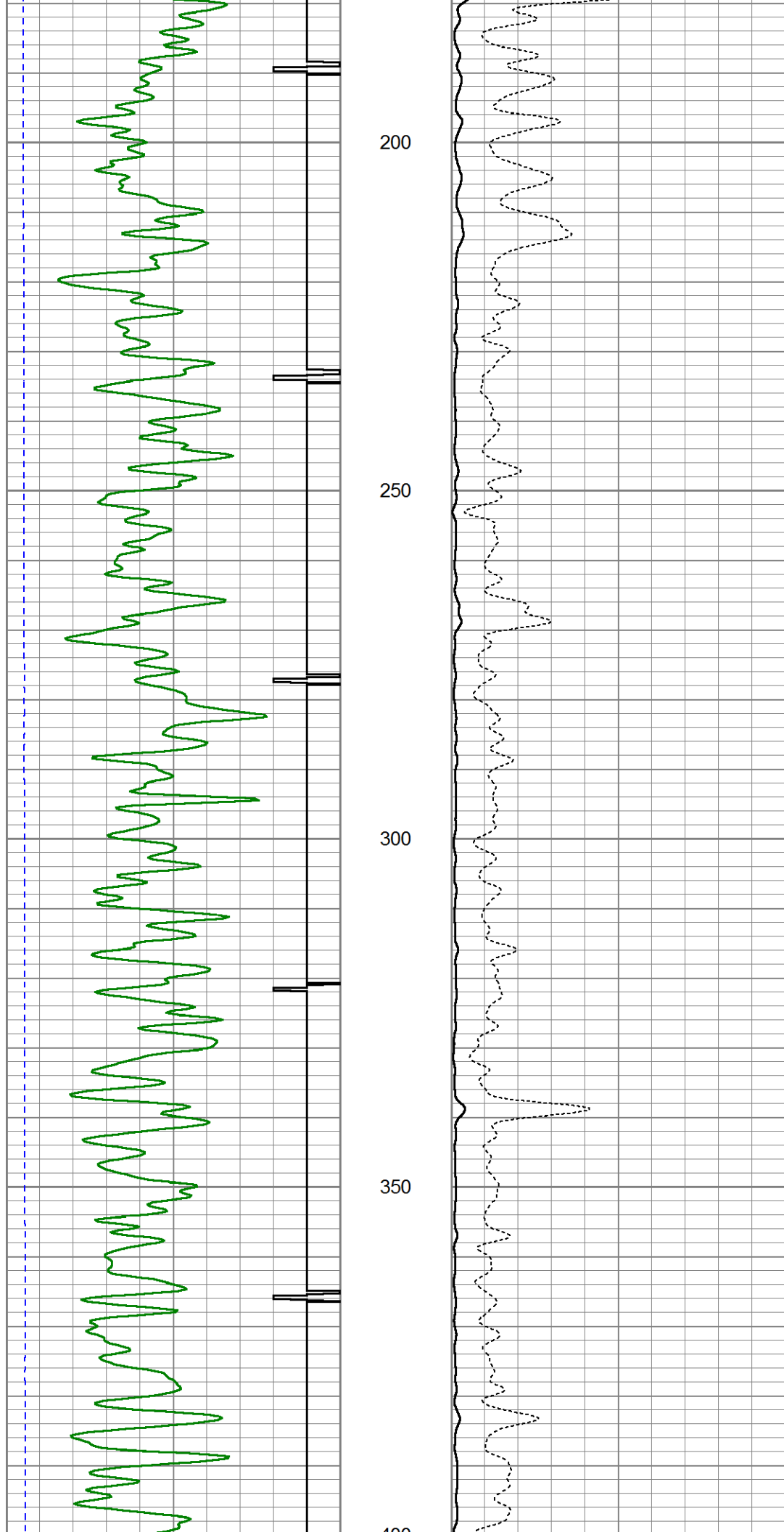
Thank You For using Allied Wireline Services
(303) 659-4609

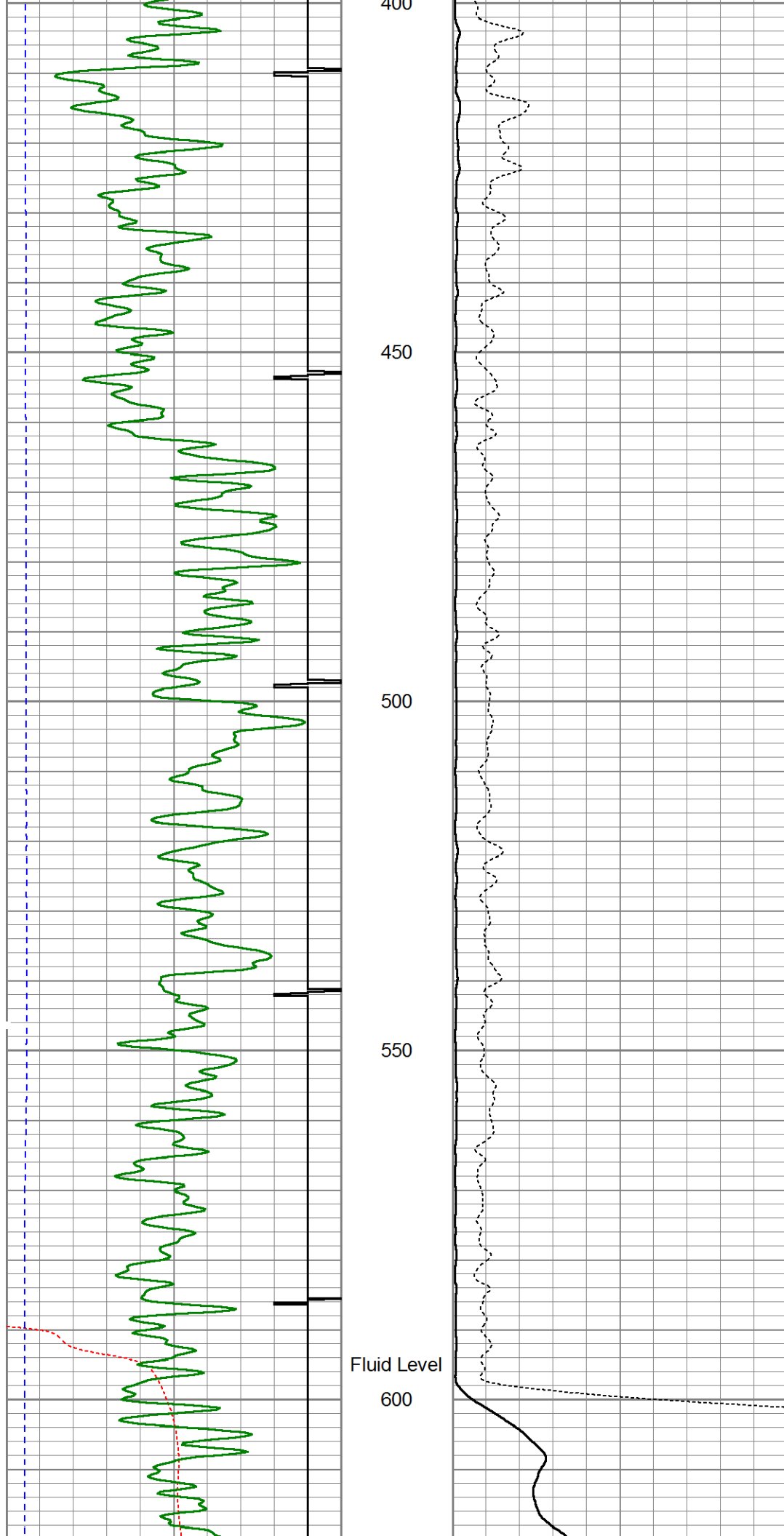


Main Pass (0 PSI)

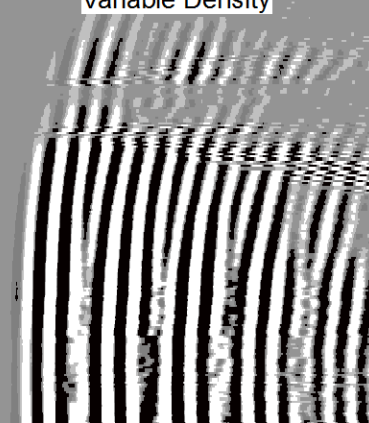
400	Travel Time (usec)	200	0	Amplitude (mV)	100	200	Variable Density	1200
9	Casing Collar	-1	0	Amplified Amplitude (mV)	10			
0	Gamma Ray (GAPI)	150						
0	Line Tension (lb)	5000						

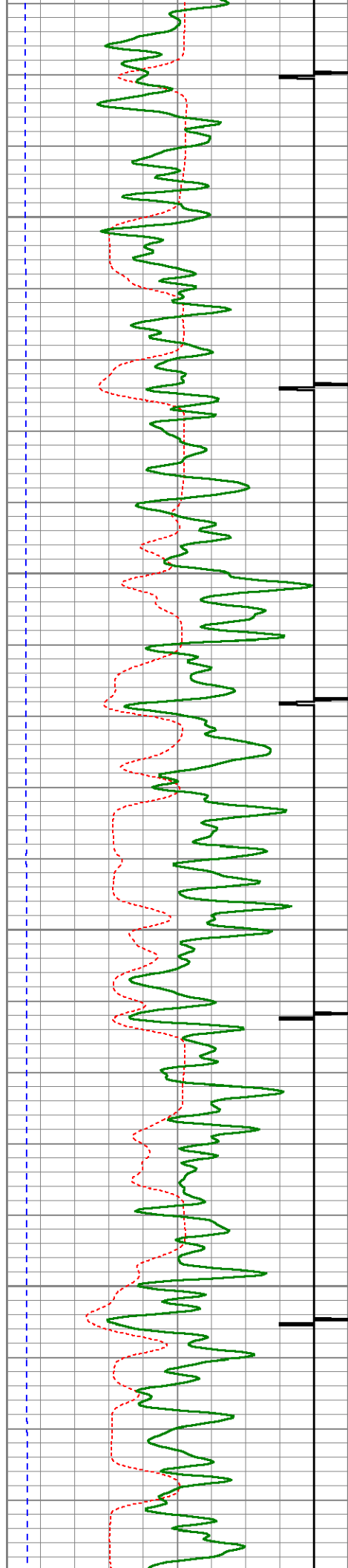






Variable Density



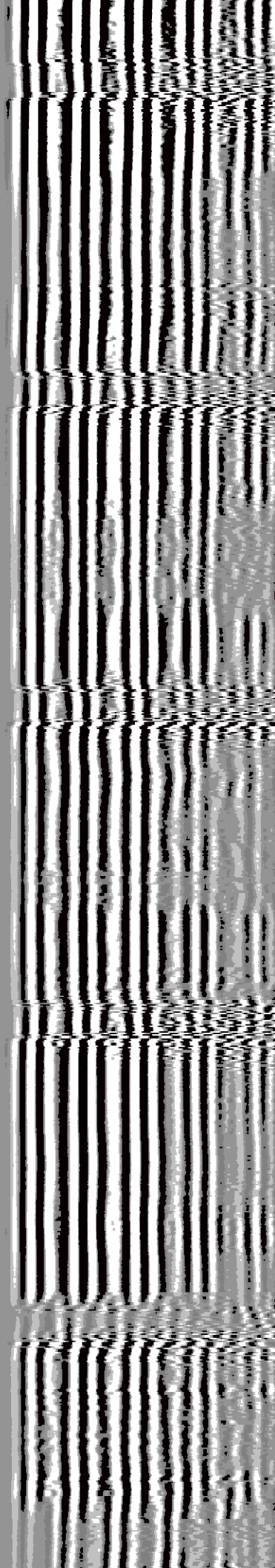
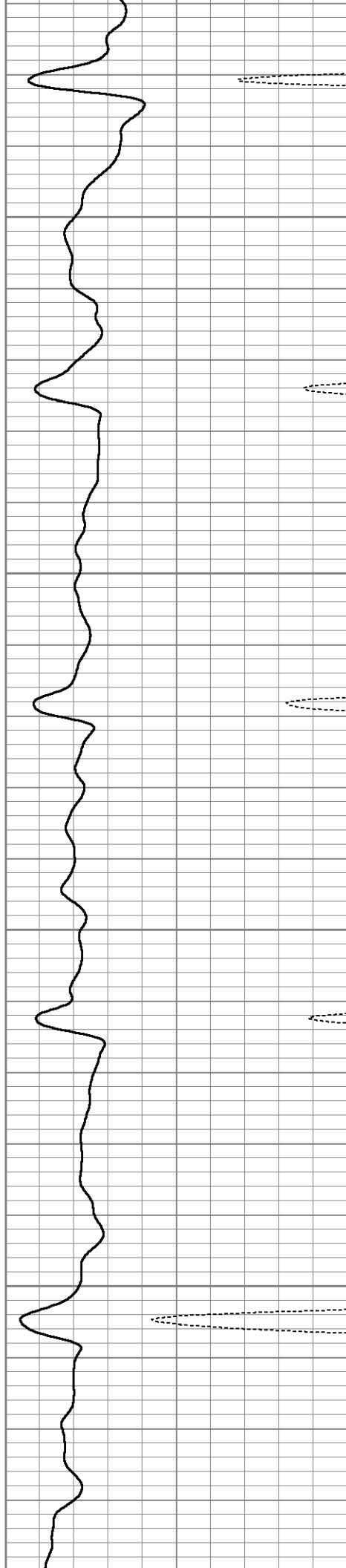


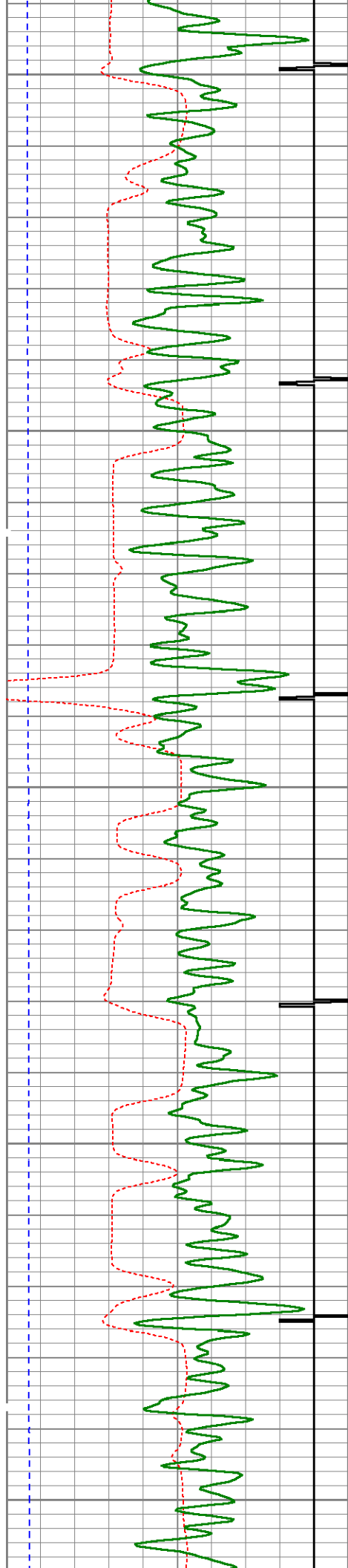
650

700

750

800





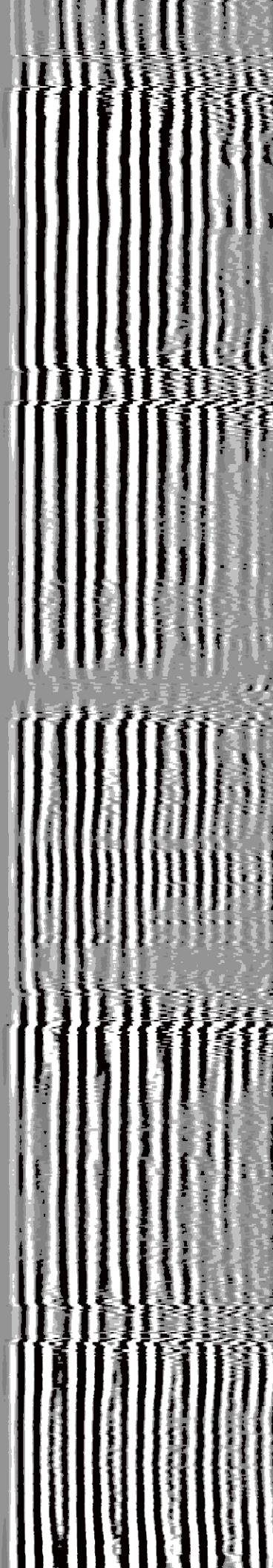
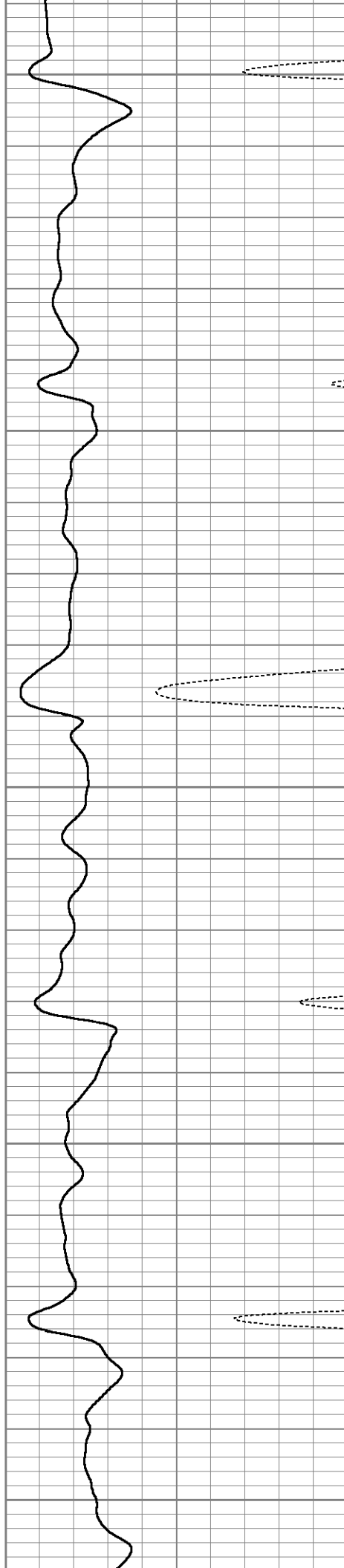
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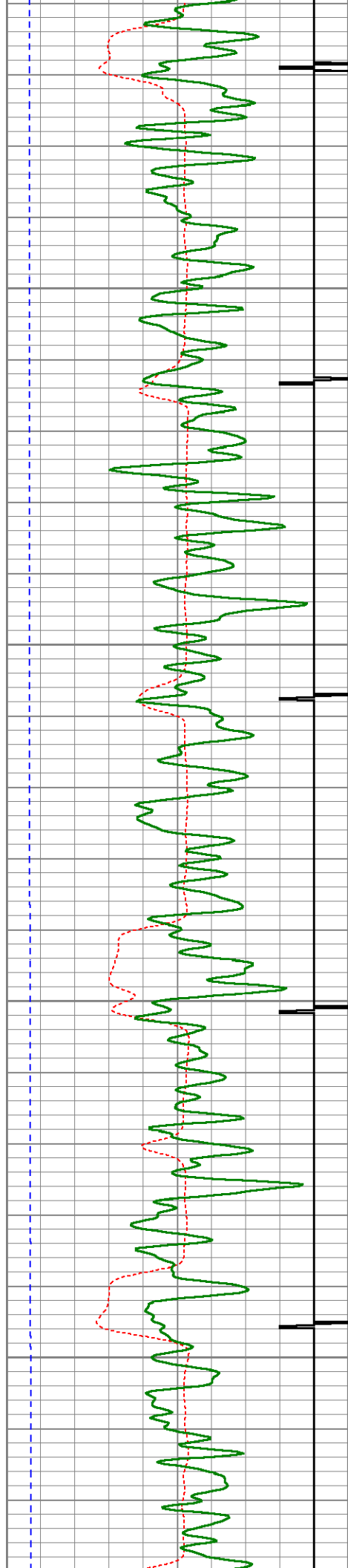
900

950

1000

1050



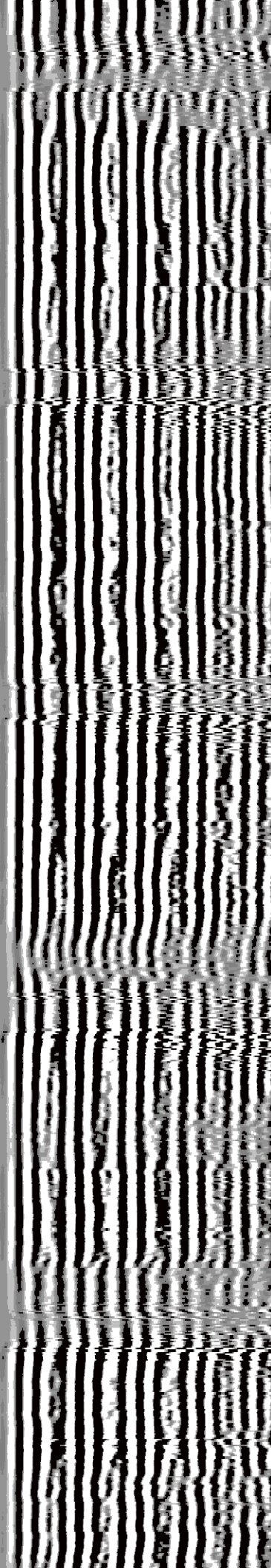
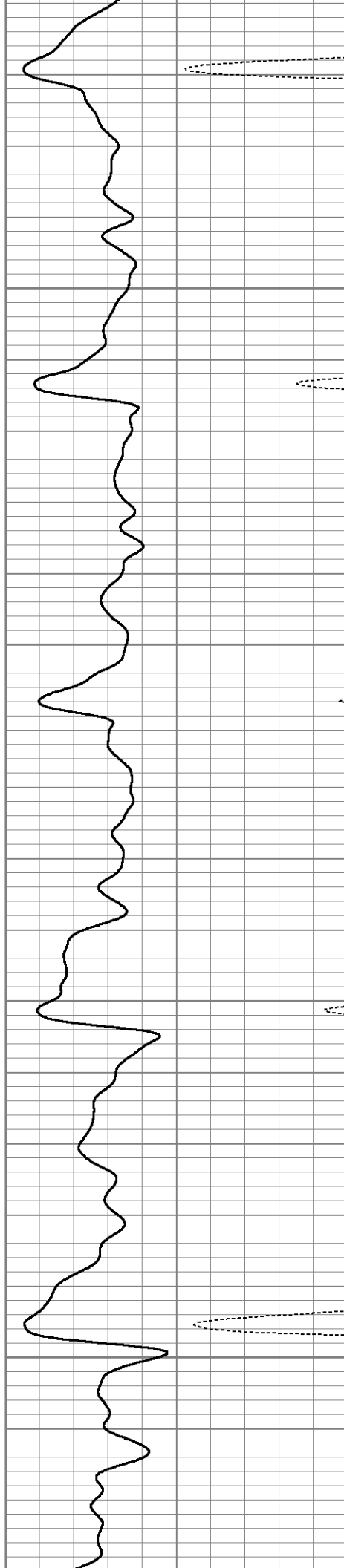


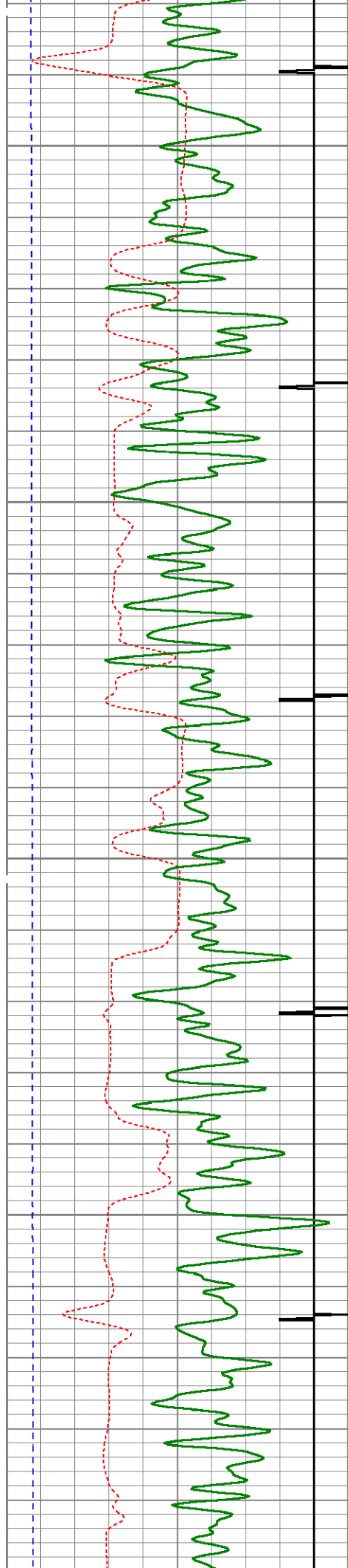
1100

1150

1200

1250





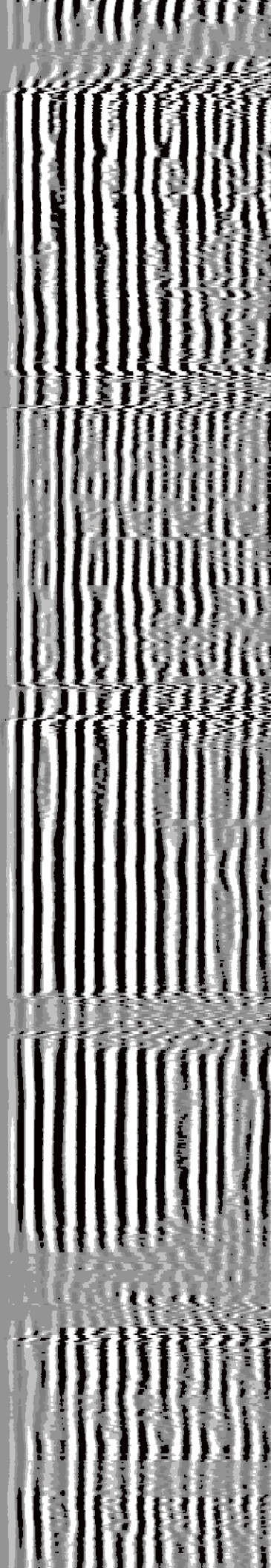
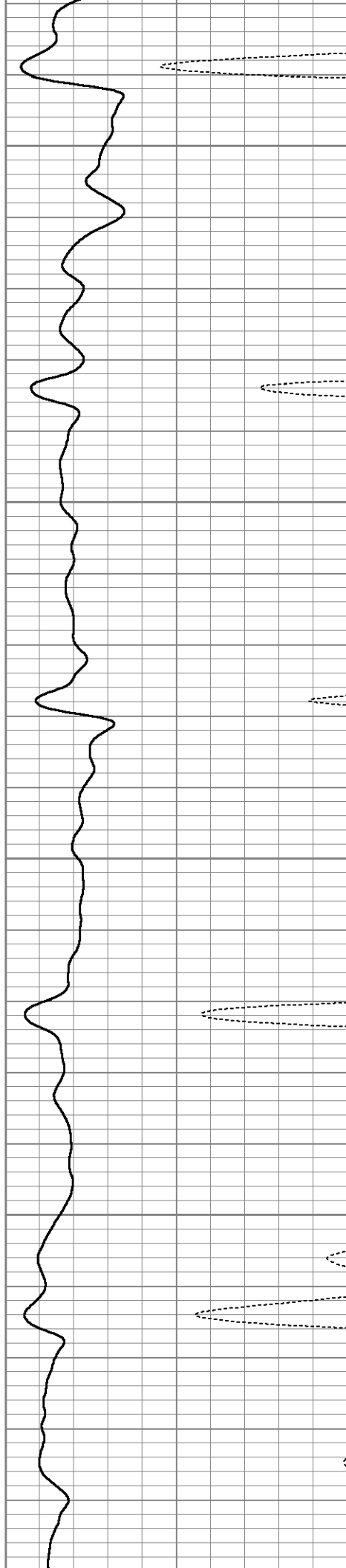
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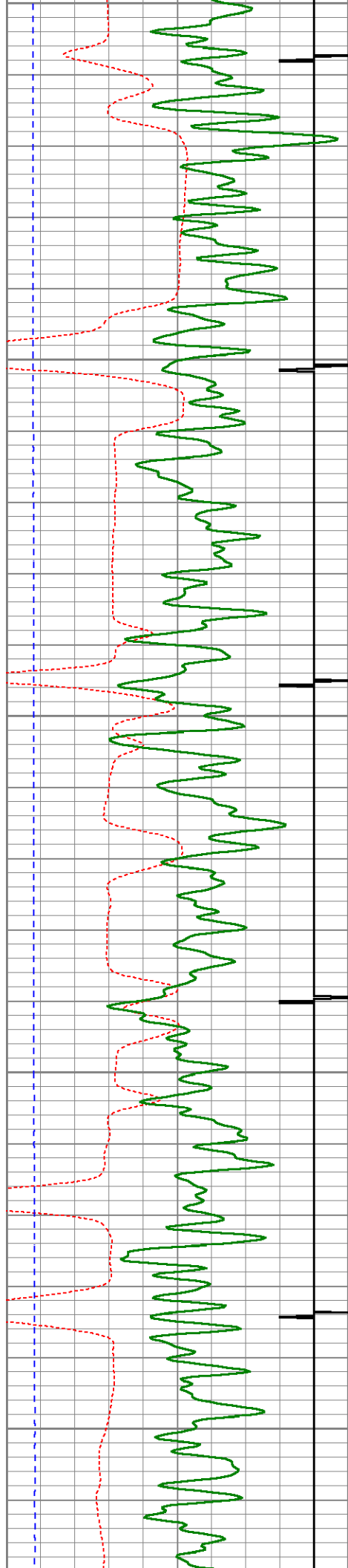
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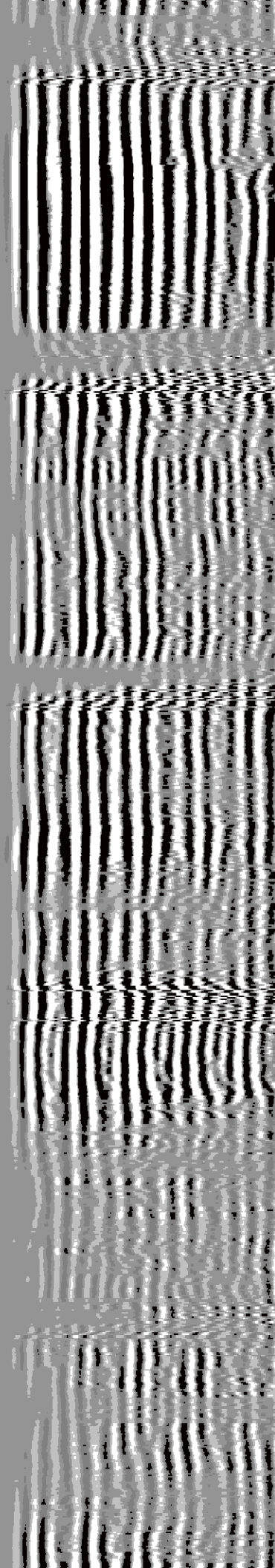
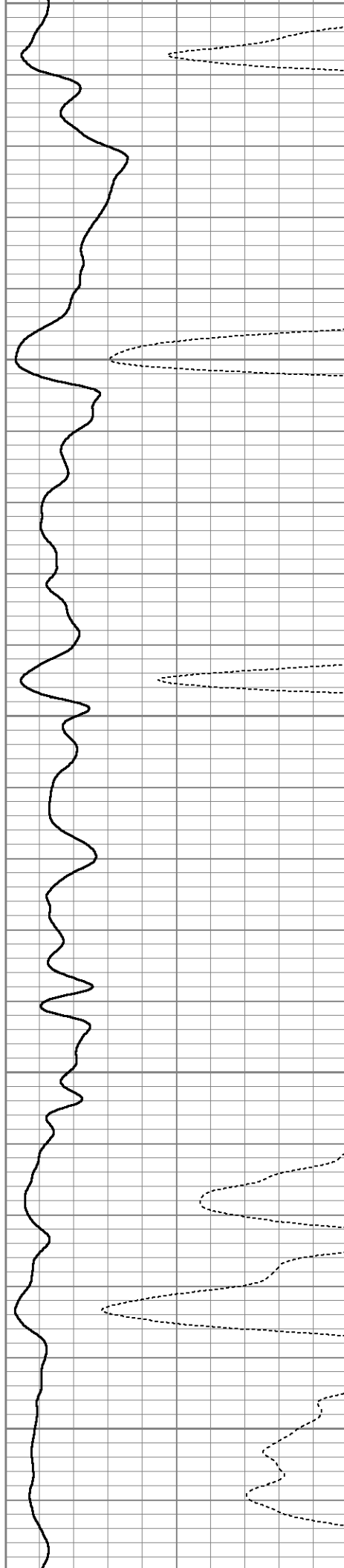
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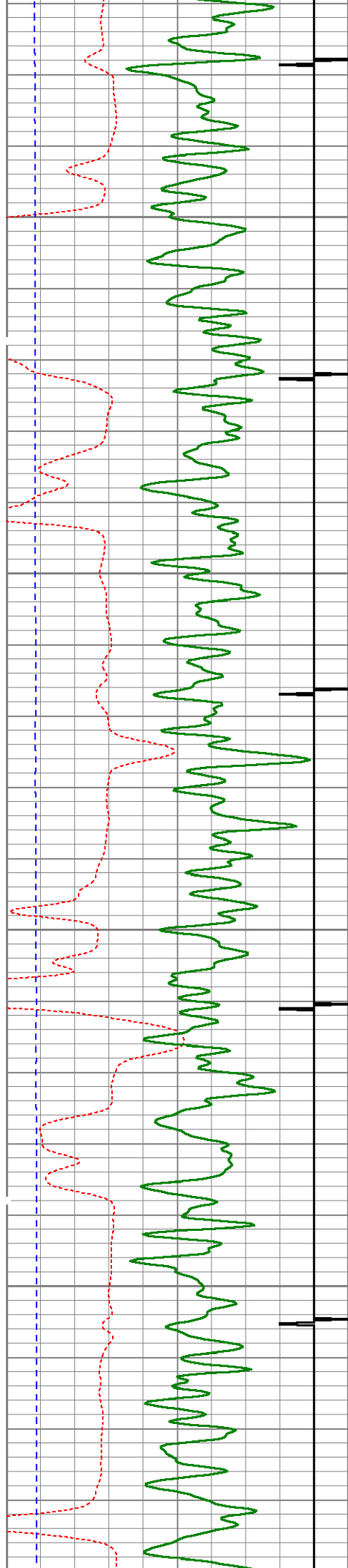
1500





1500
1550
1600
1650
1700



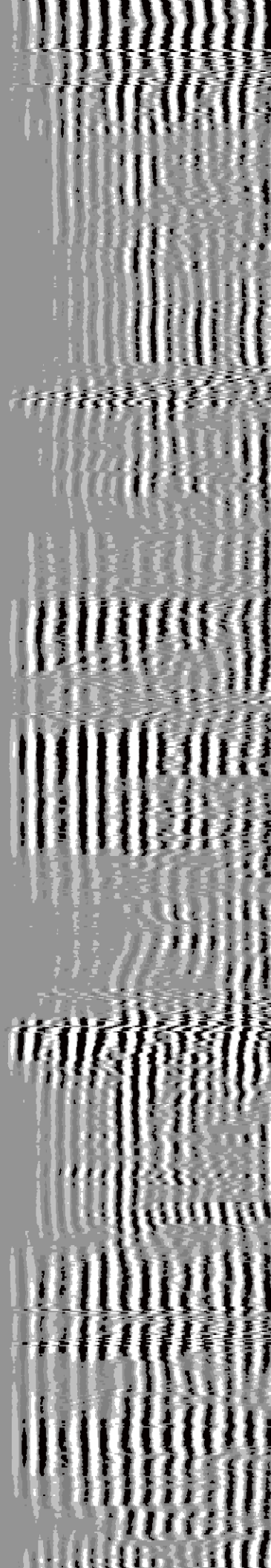
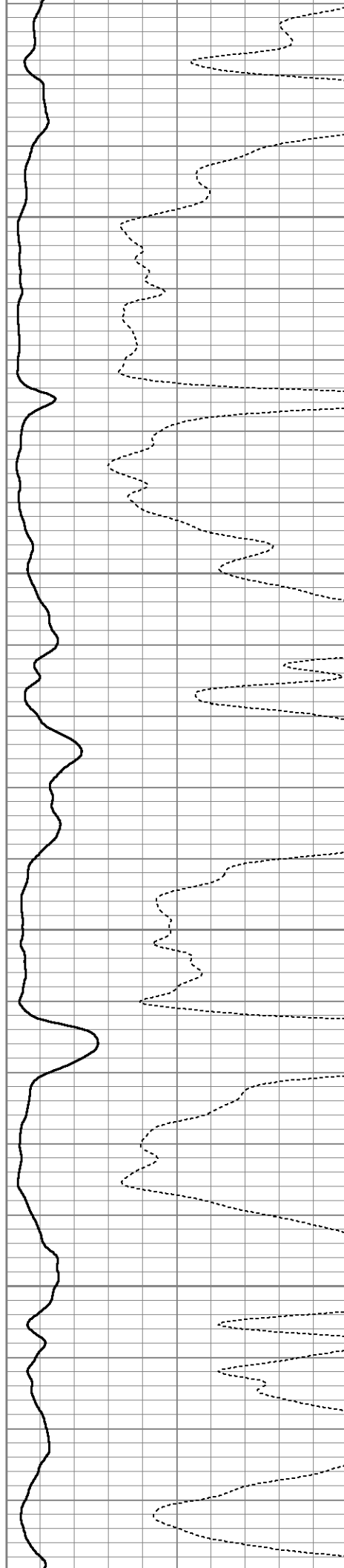


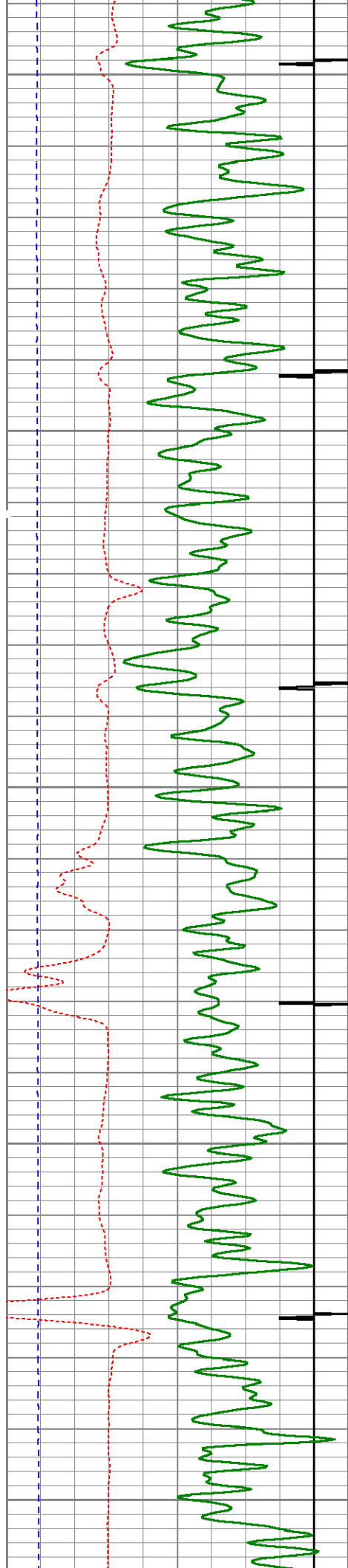
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1800

1850

1900





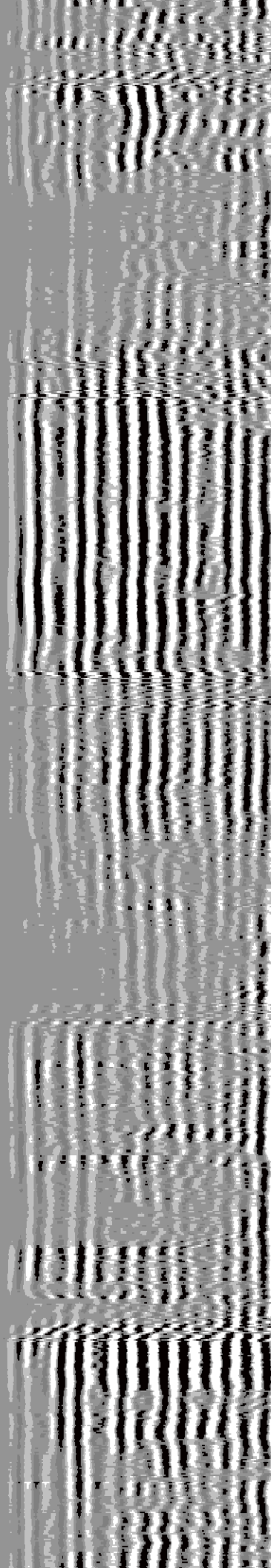
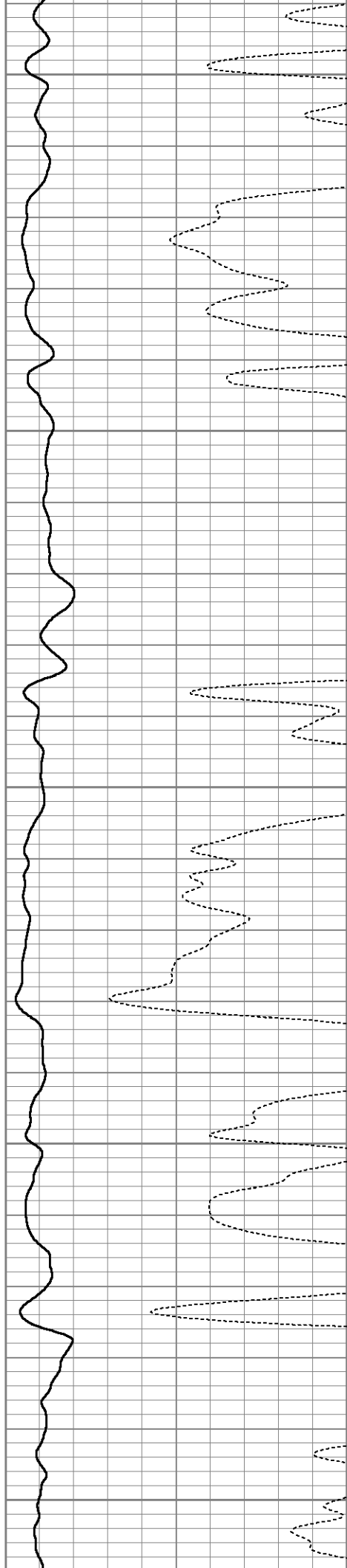
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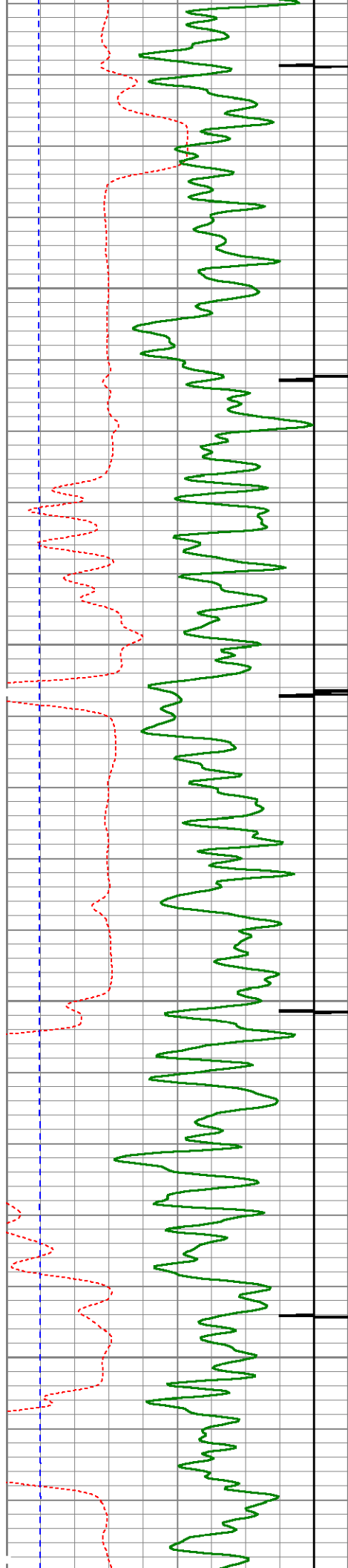
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2050

2100

2150



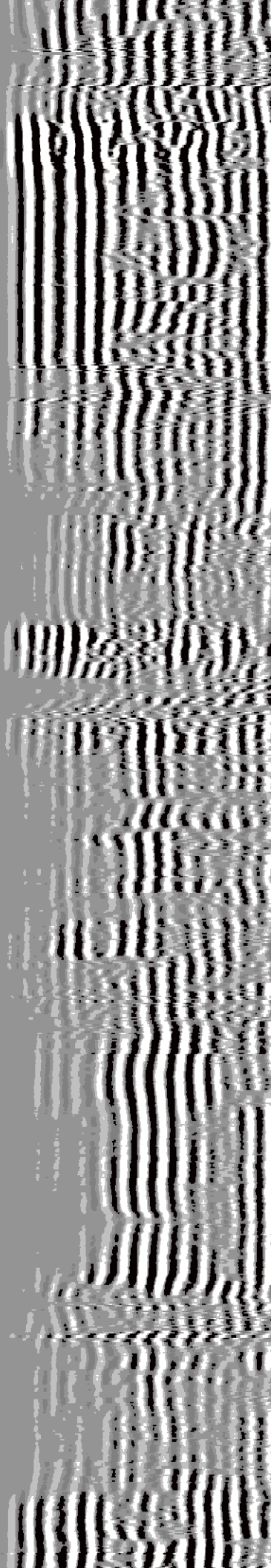
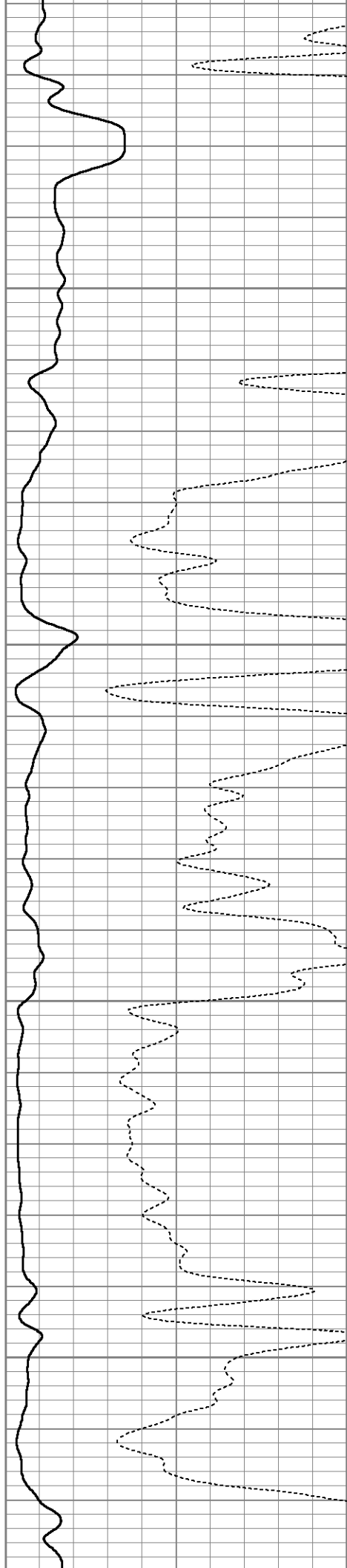


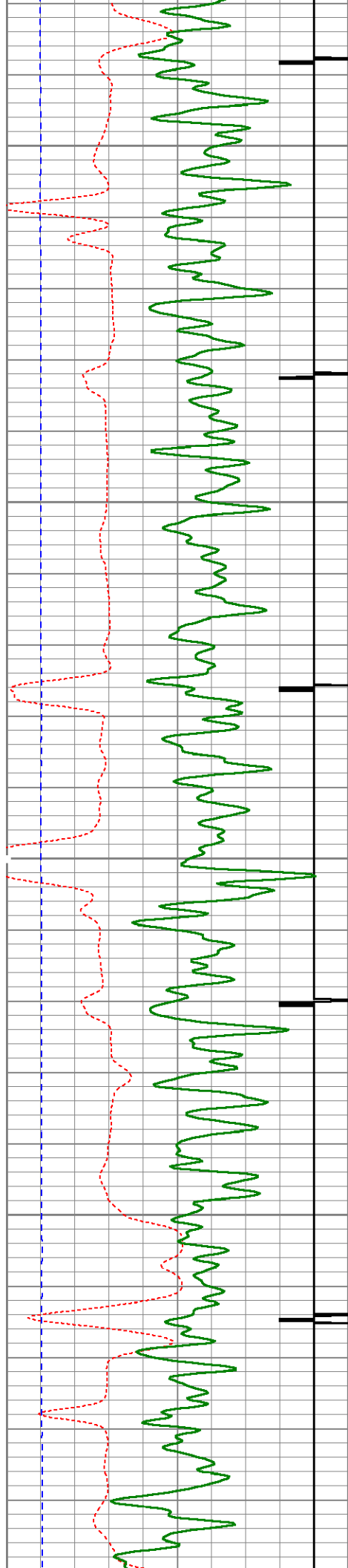
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2250

2300

2350





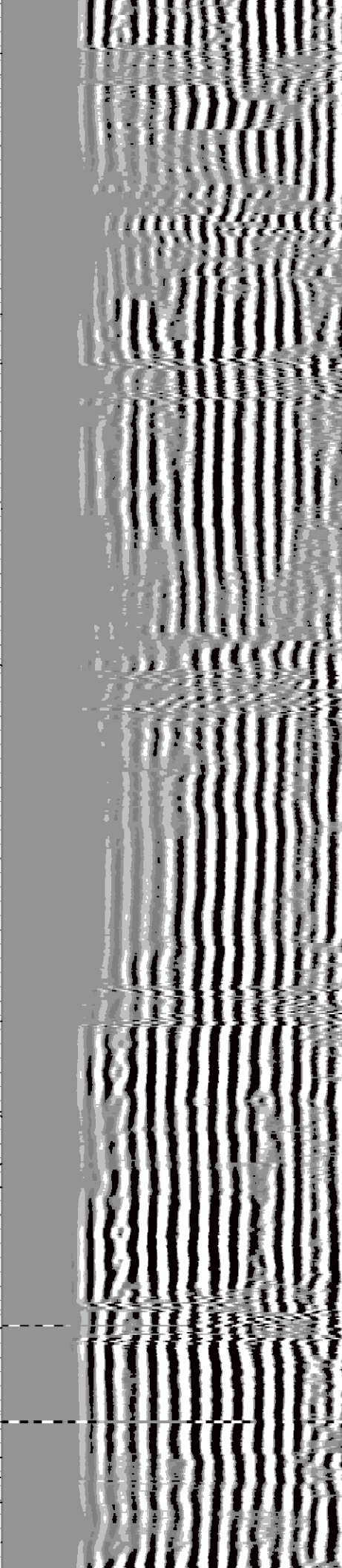
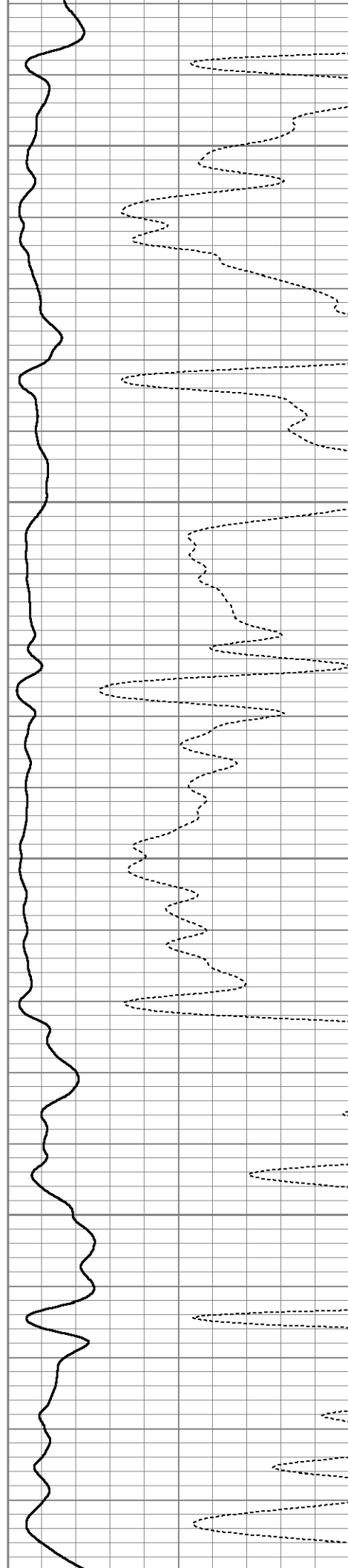
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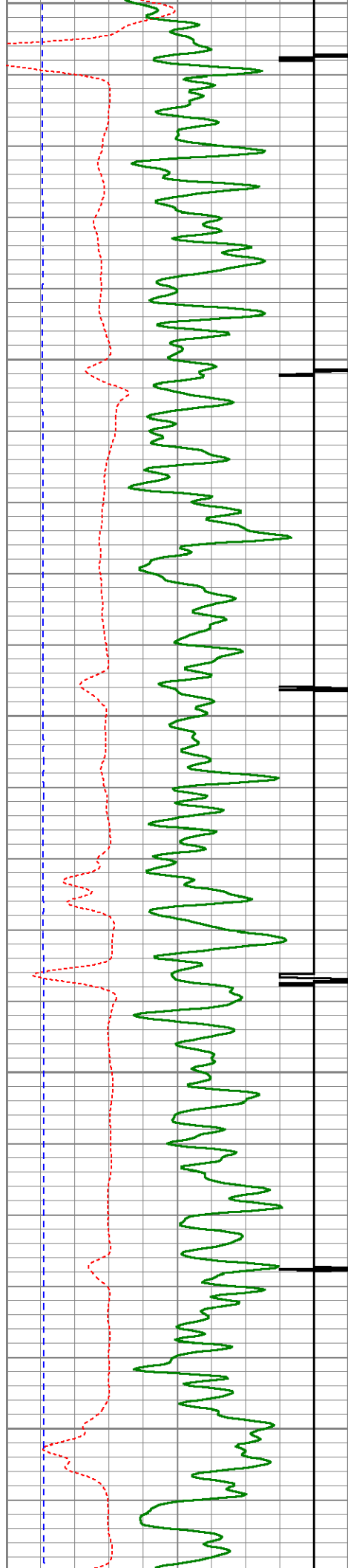
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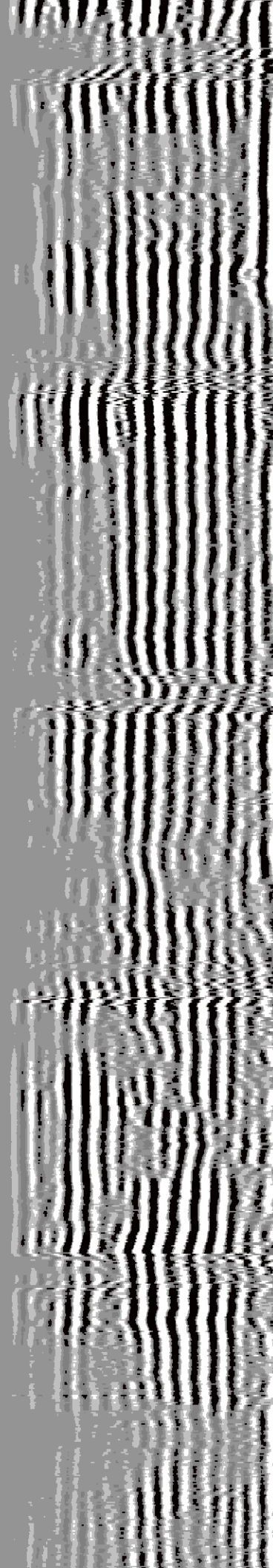
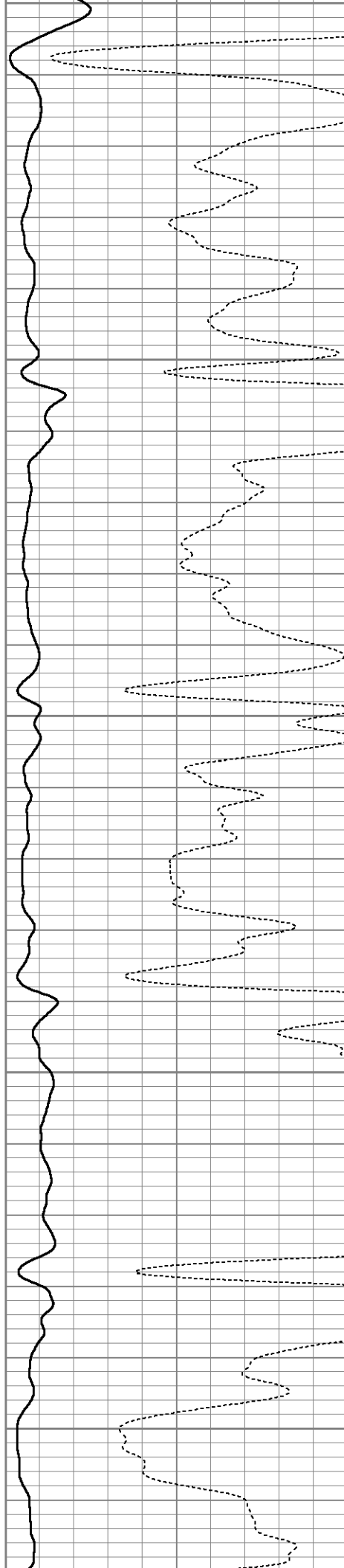
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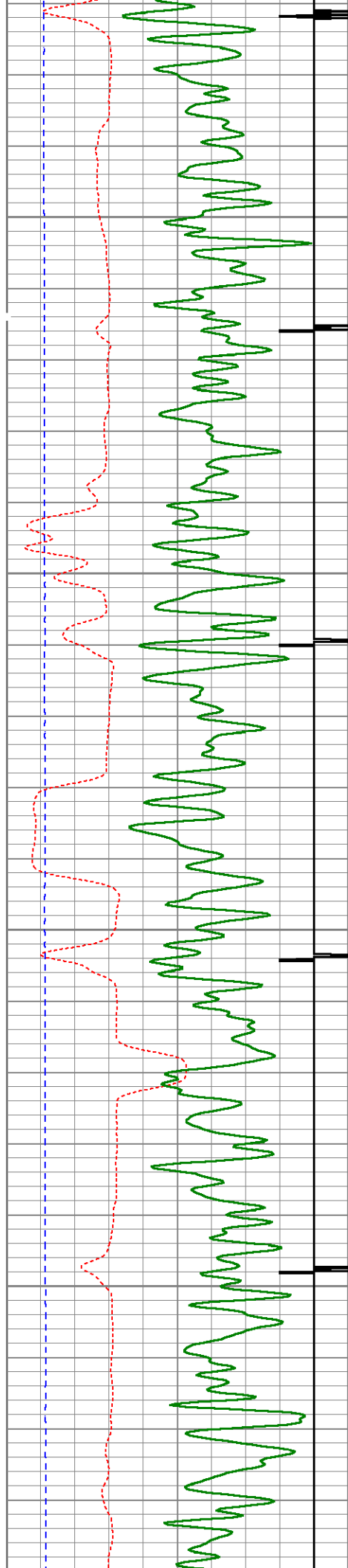
2600





2600
2650
2700
2750
2800



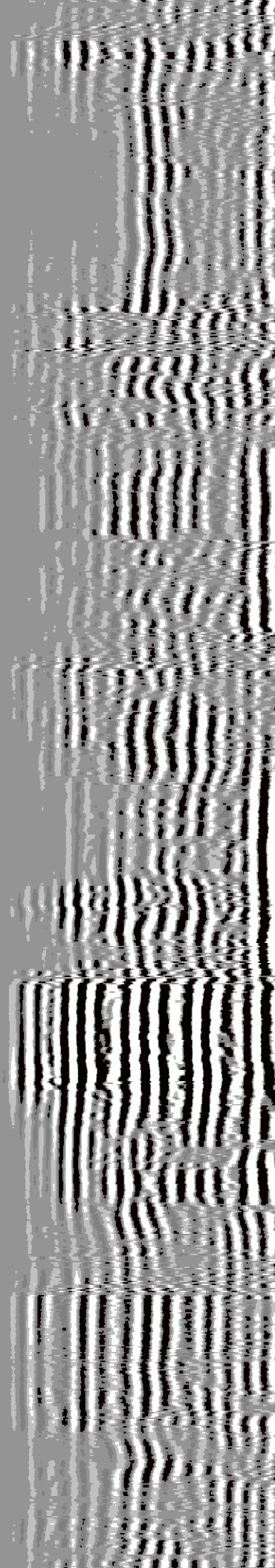
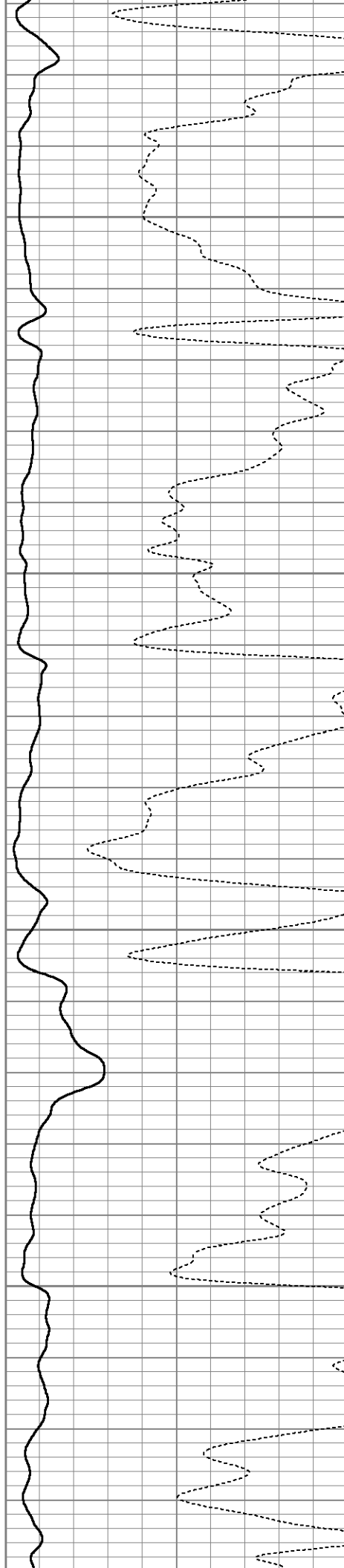


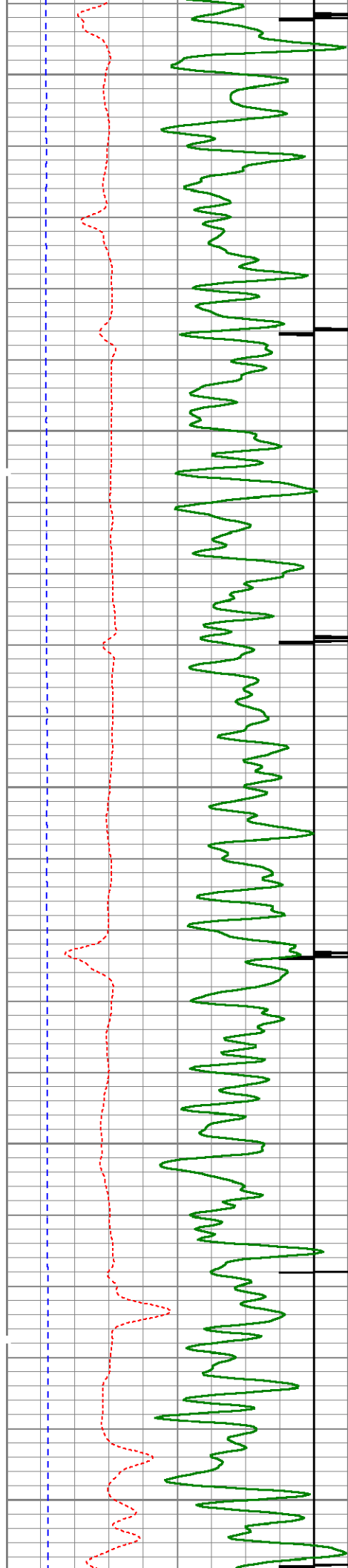
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2900

2950

3000





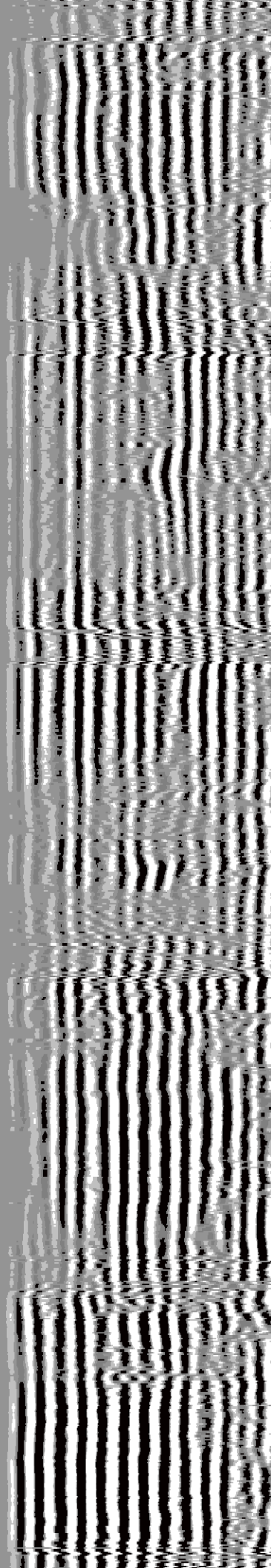
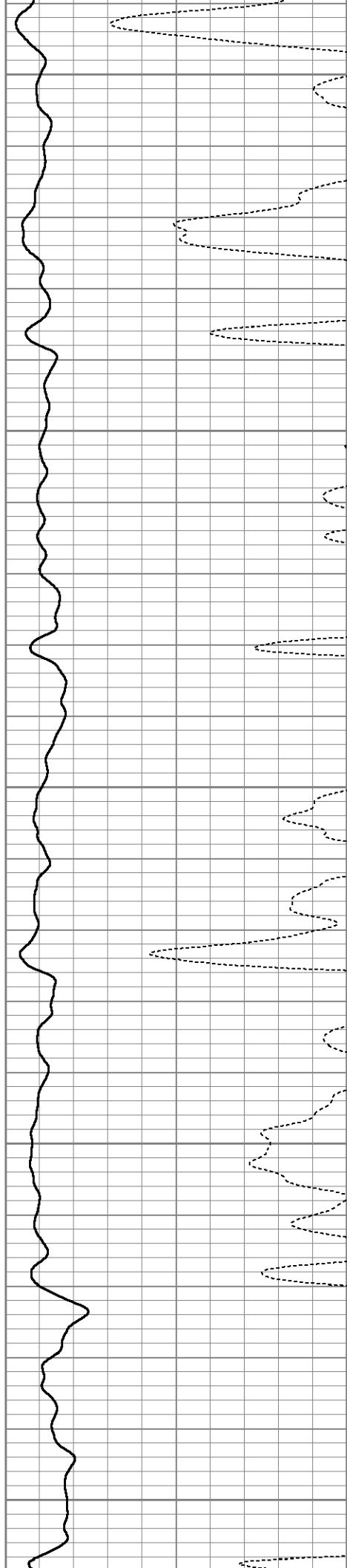
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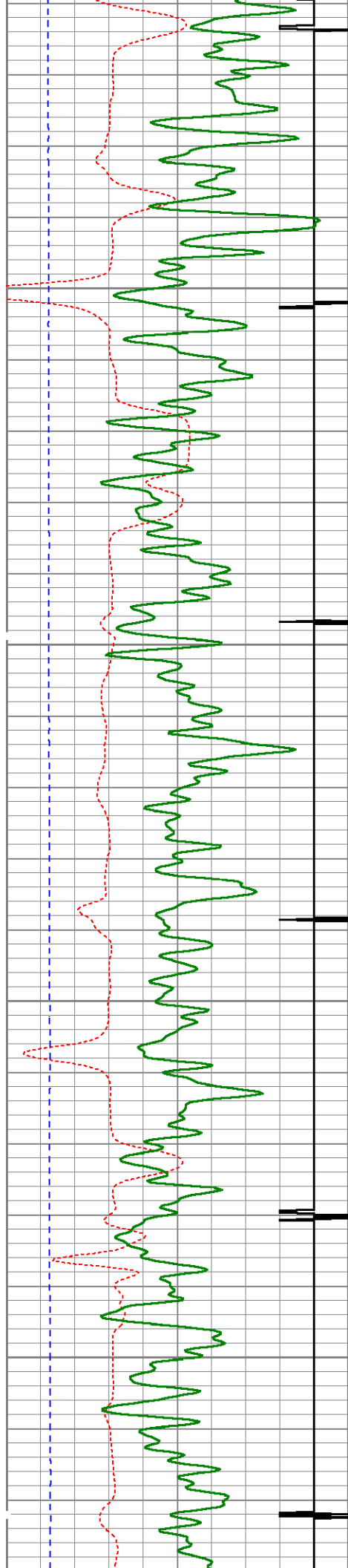
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3150

3200

3250



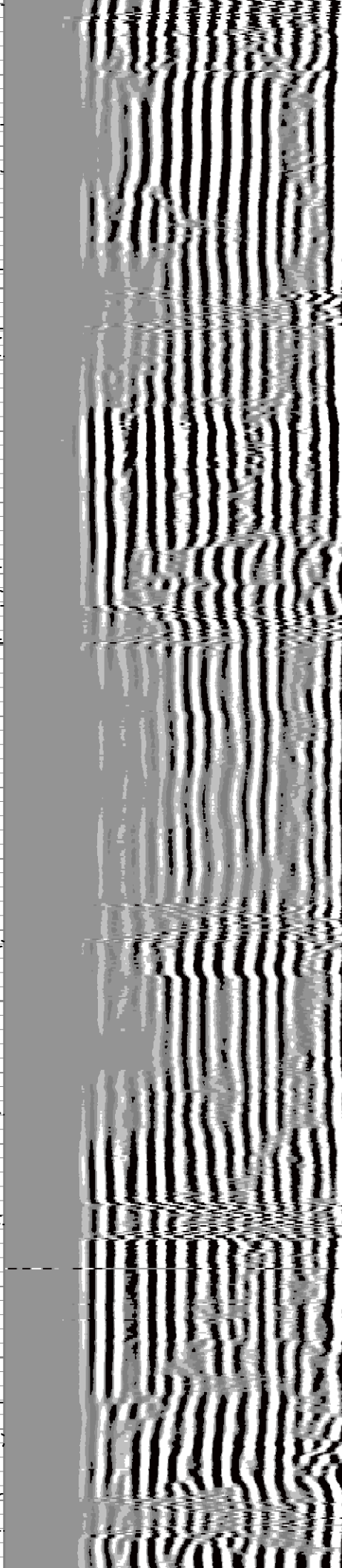
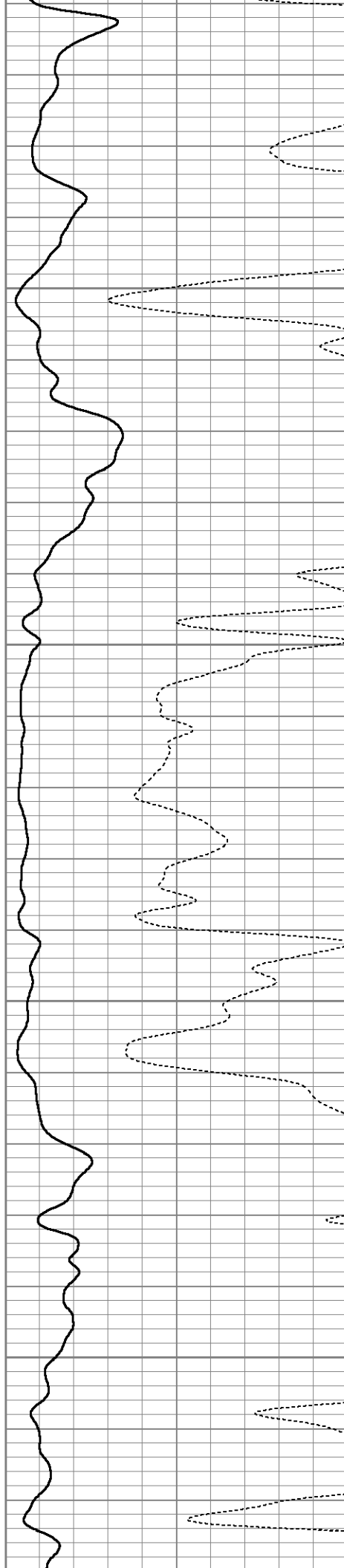


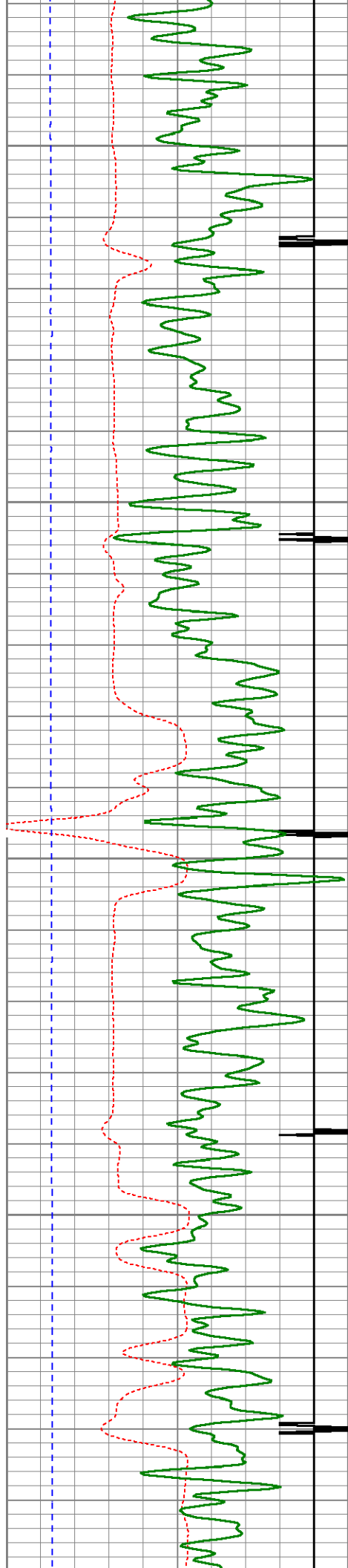
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3350

3400

3450





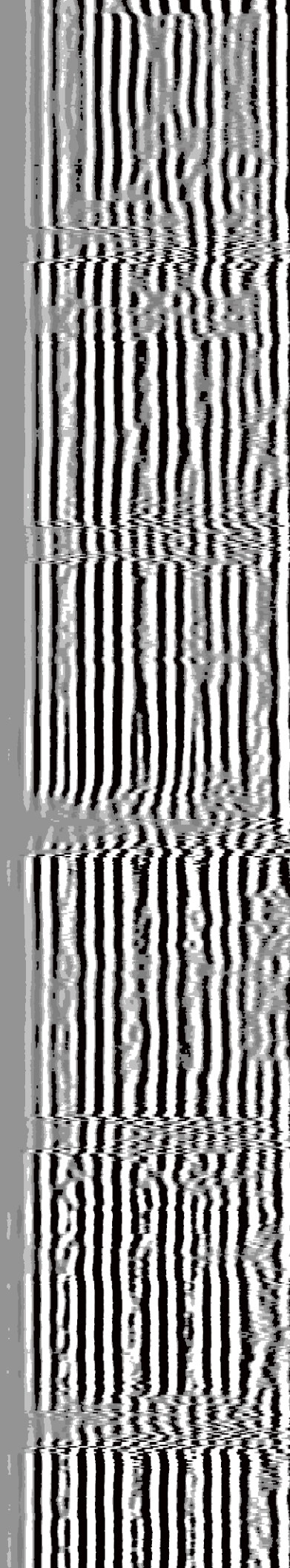
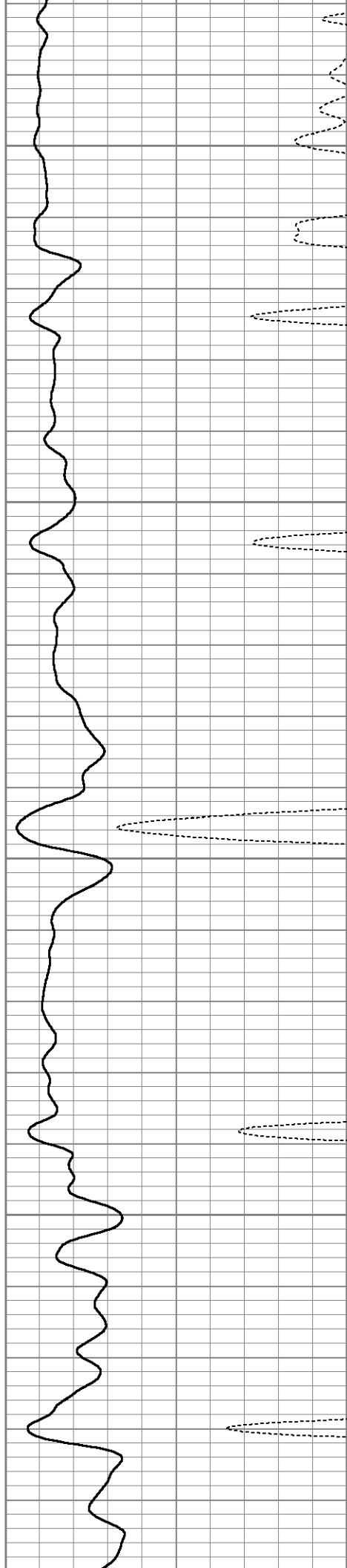
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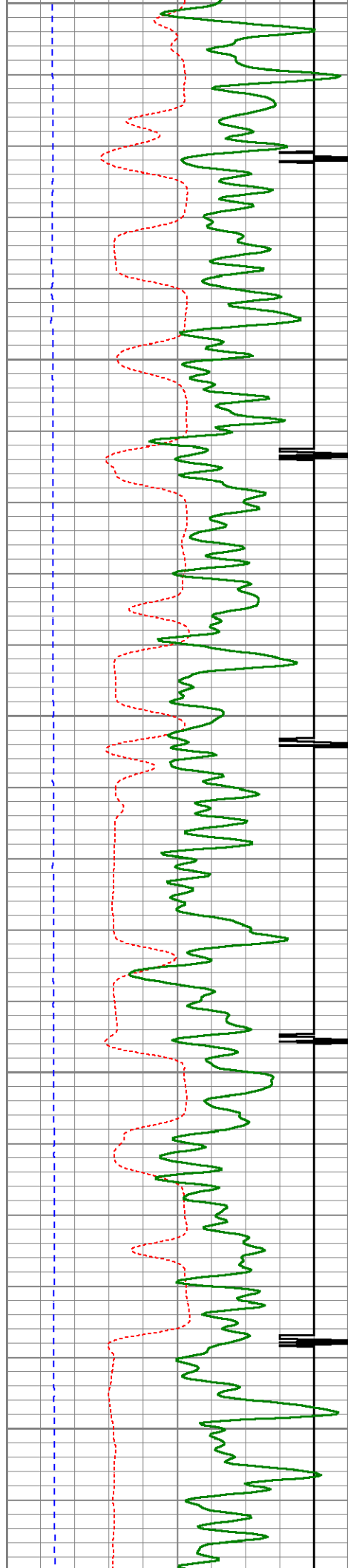
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3600

3650

3700





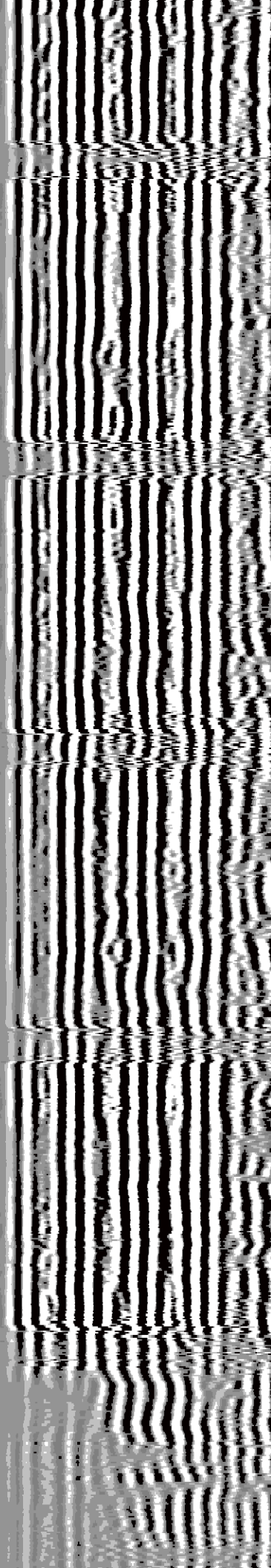
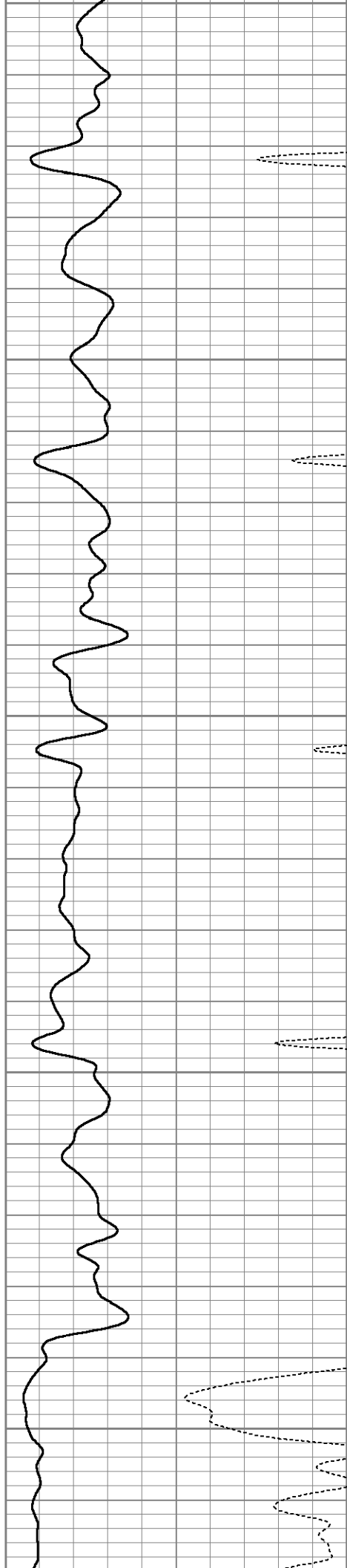
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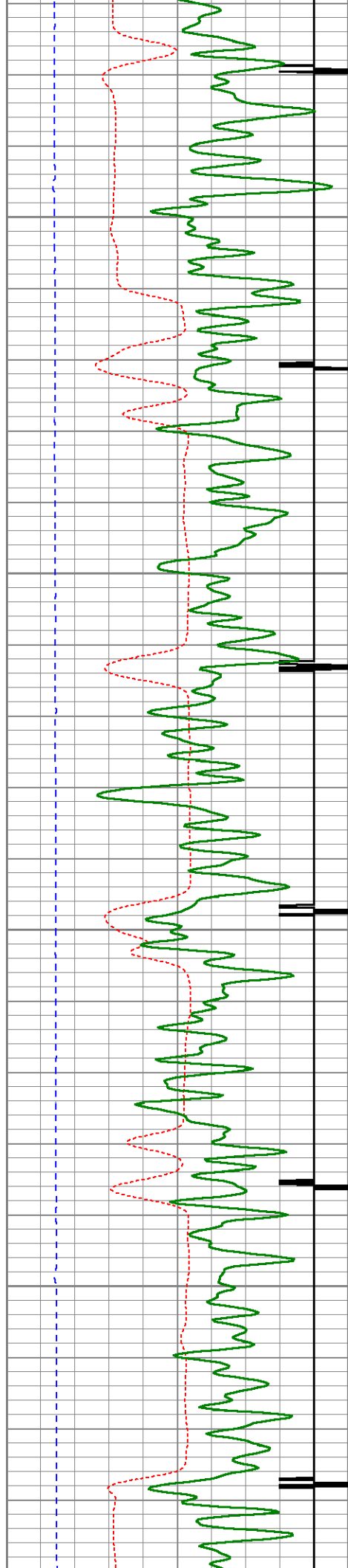
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3850

3900



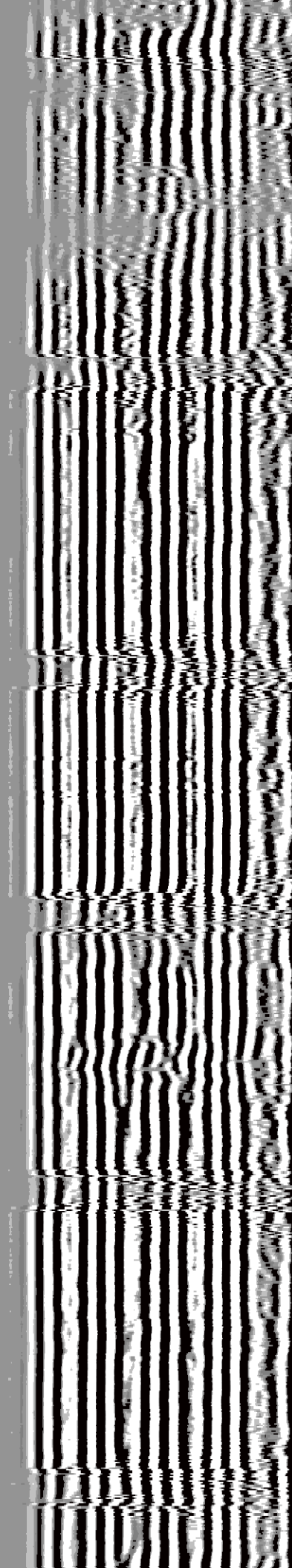
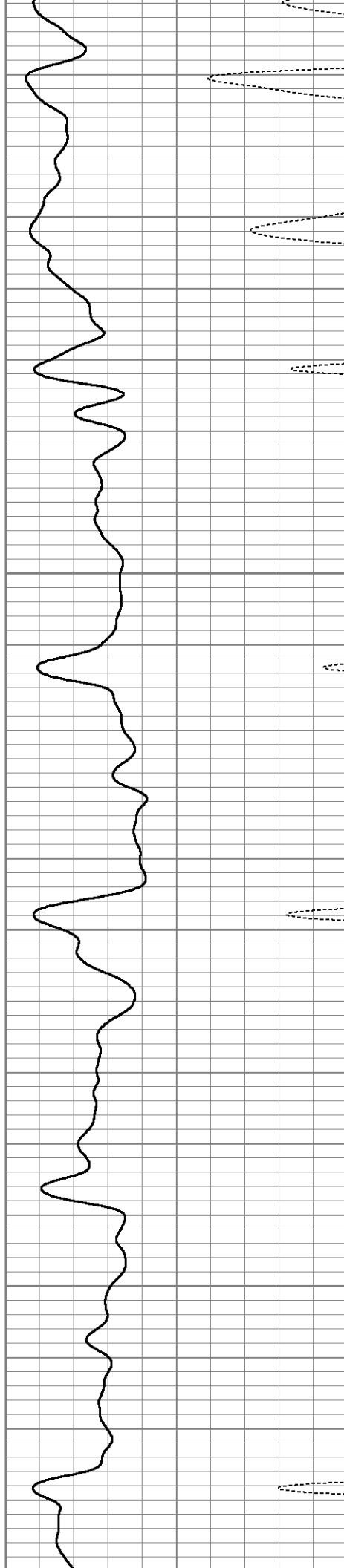


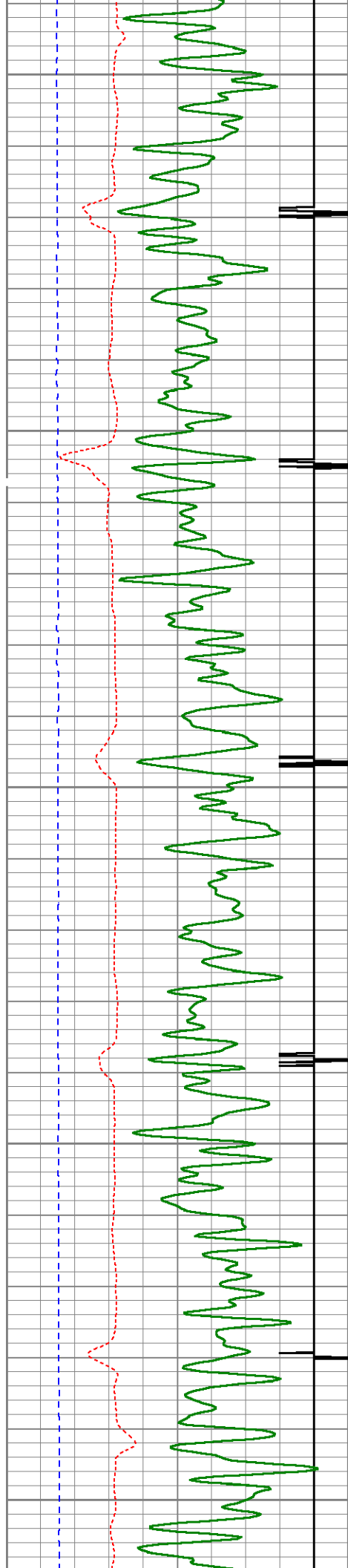
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4050

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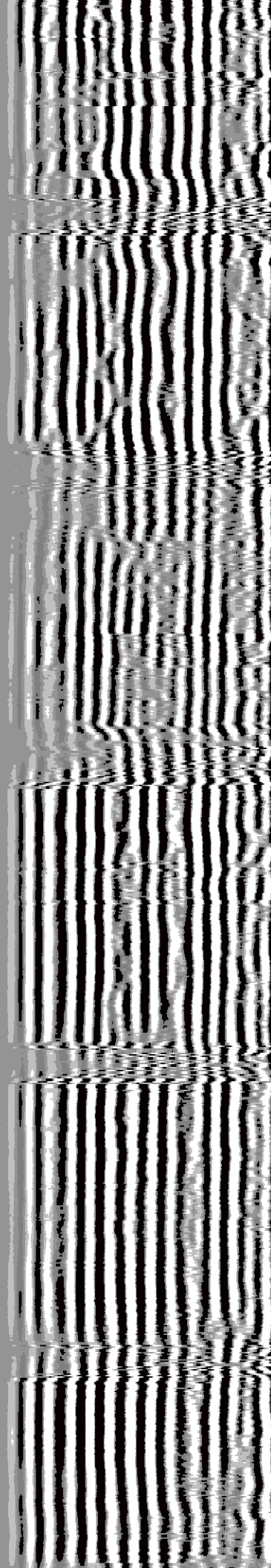
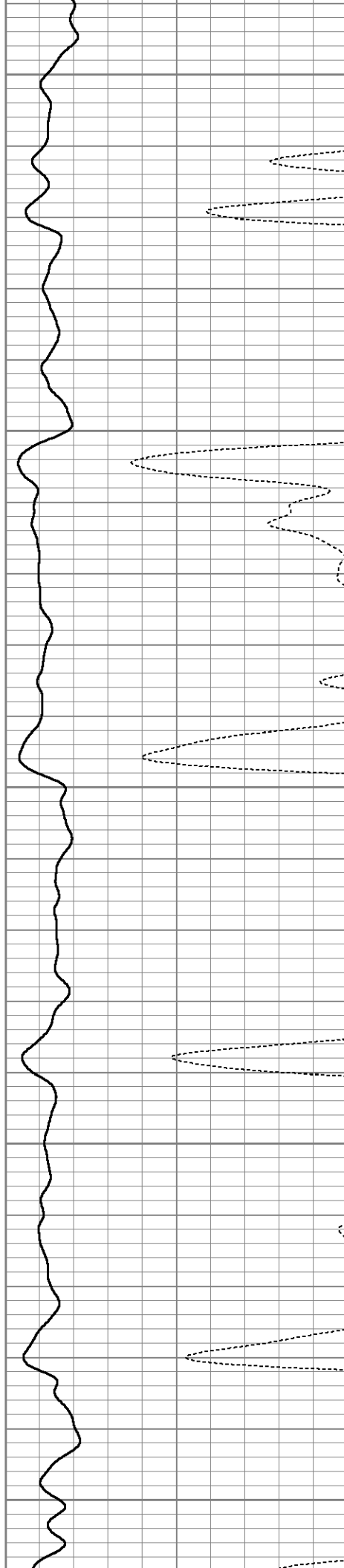
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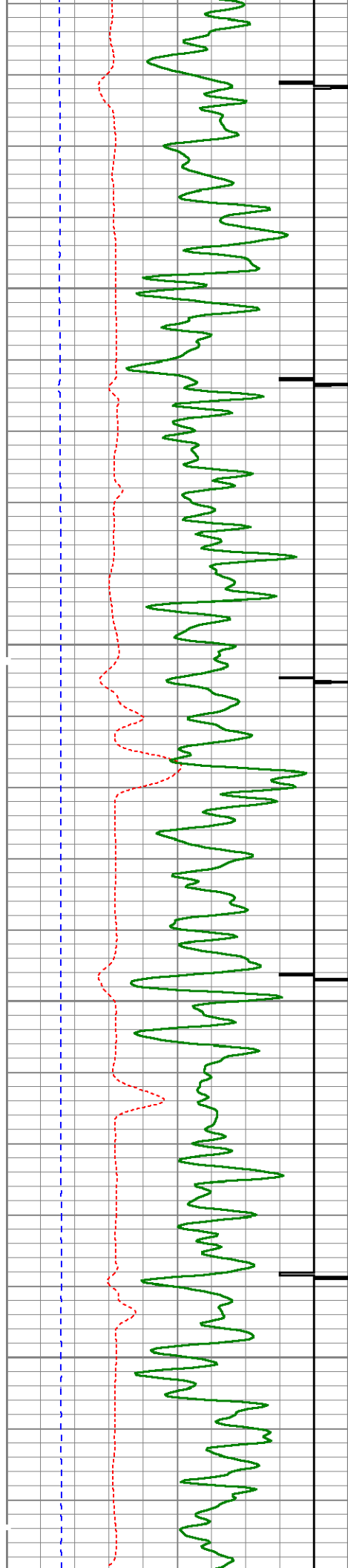
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4250

4300

4350



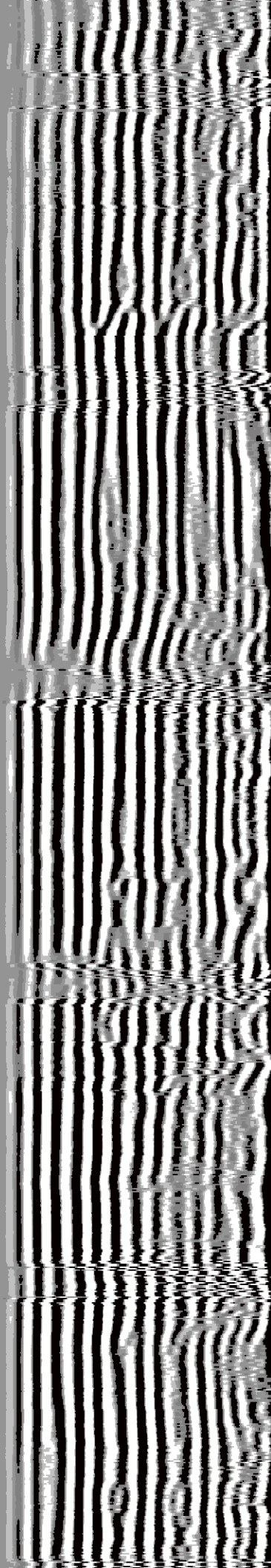
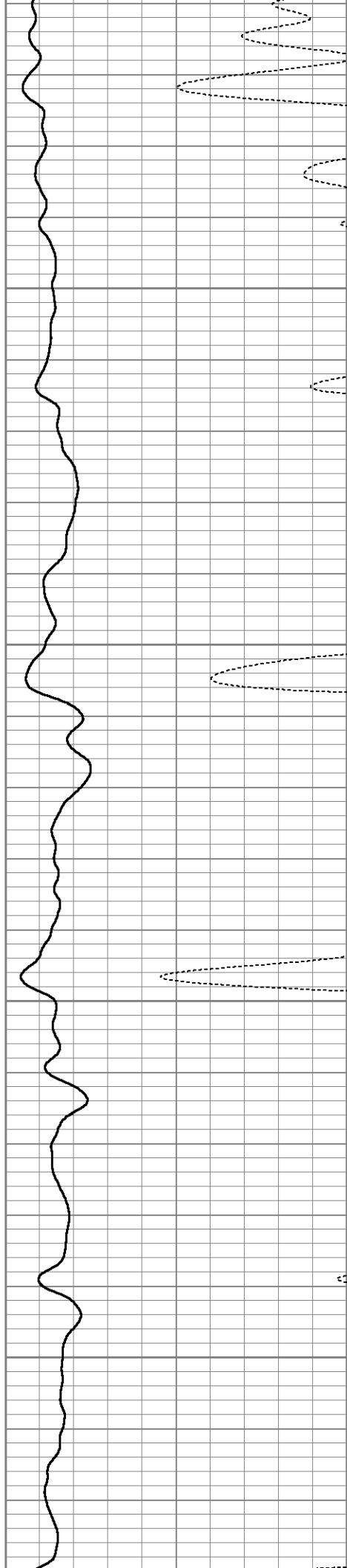


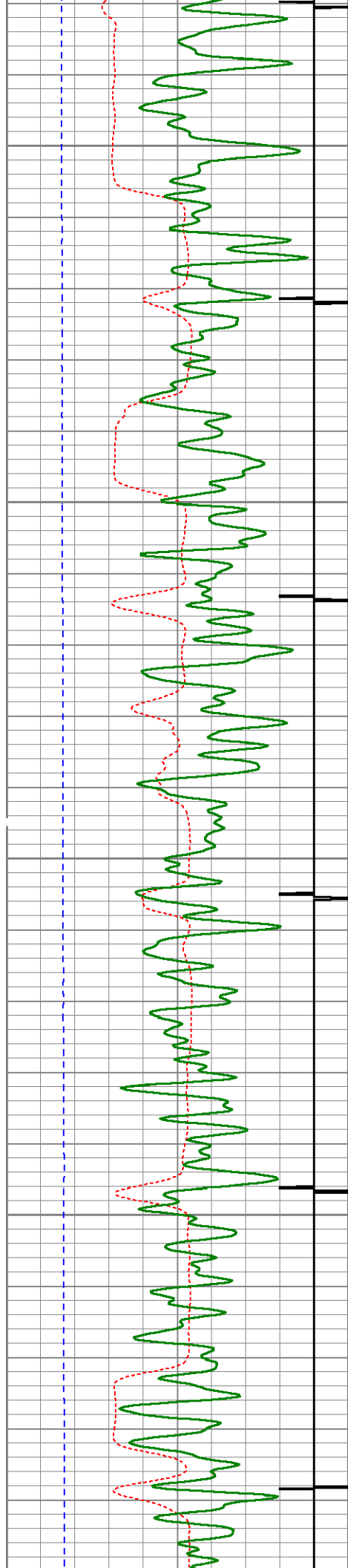
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4500

4550





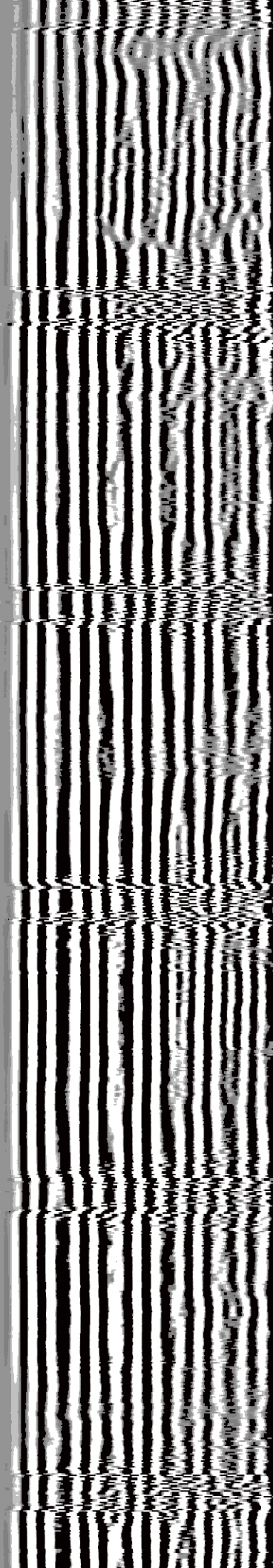
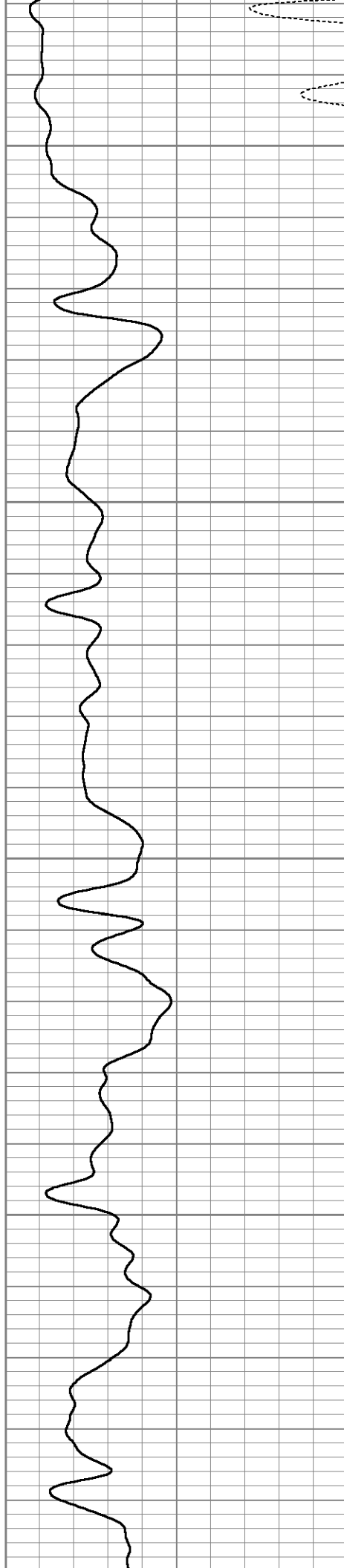
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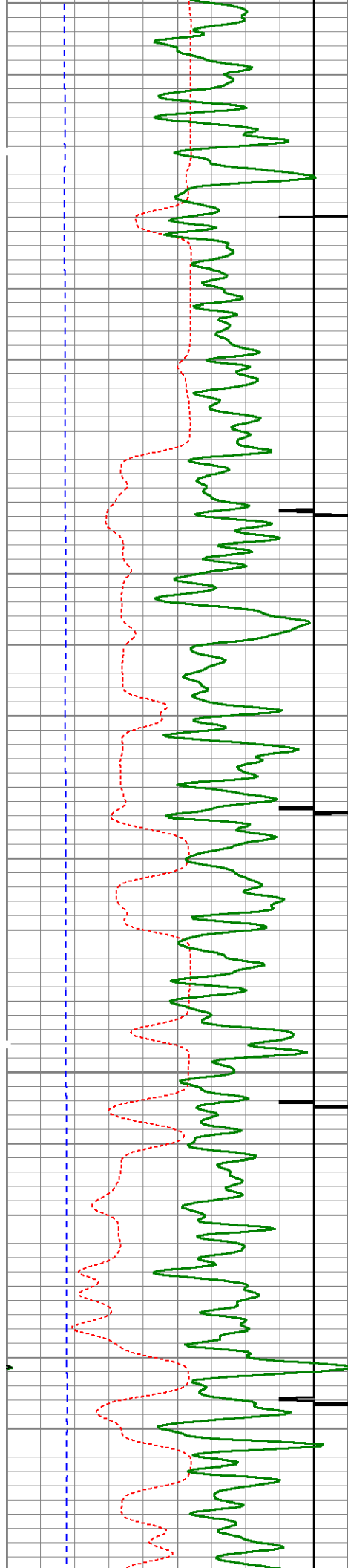
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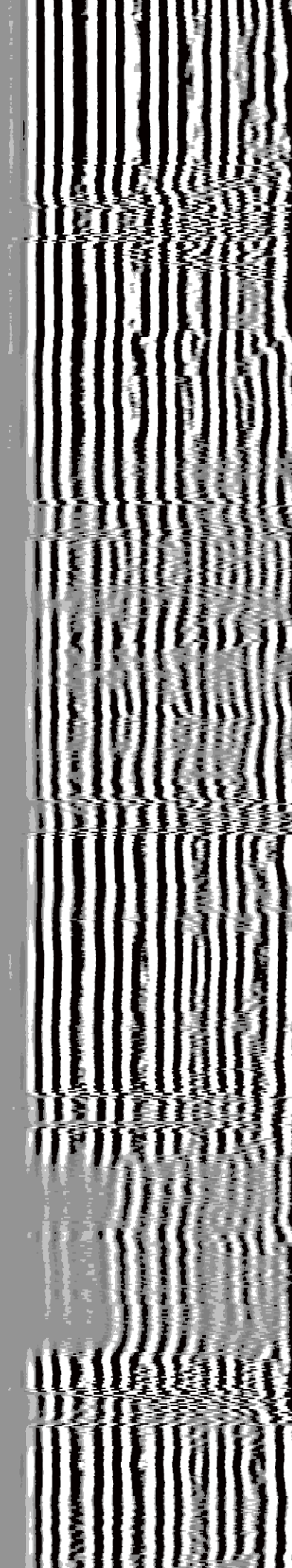
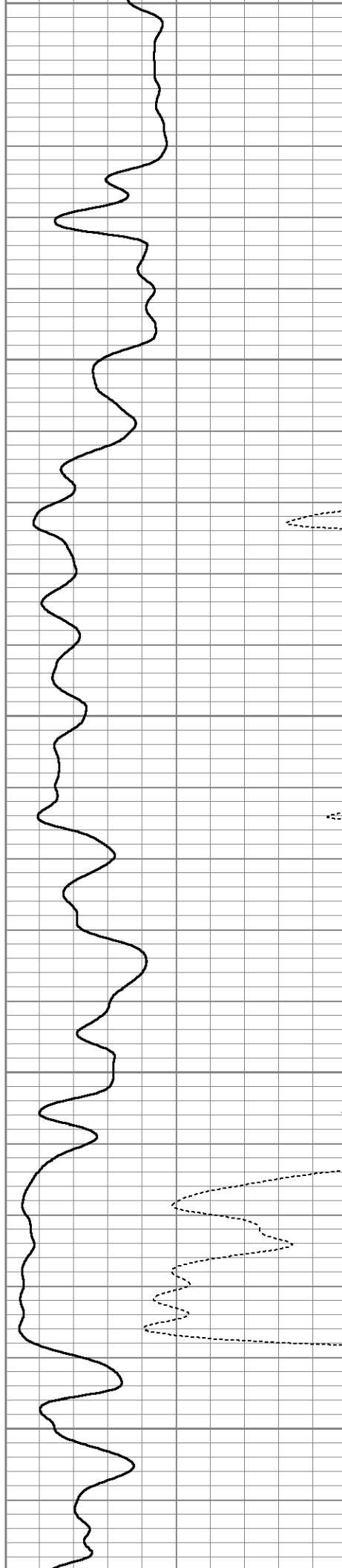
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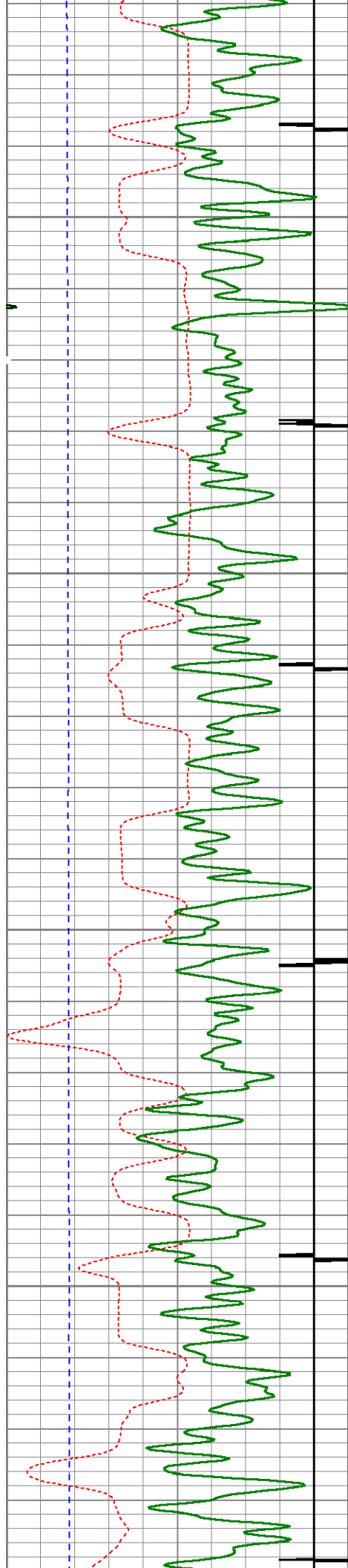
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4800
4850
4900
4950
5000



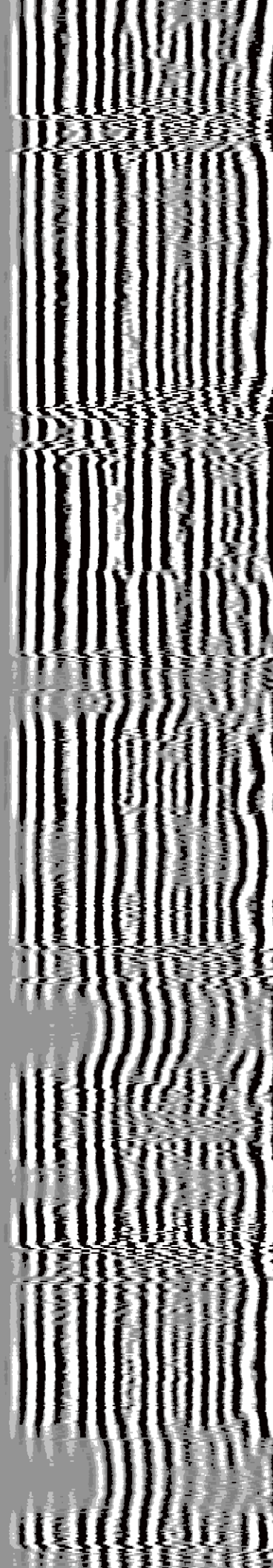
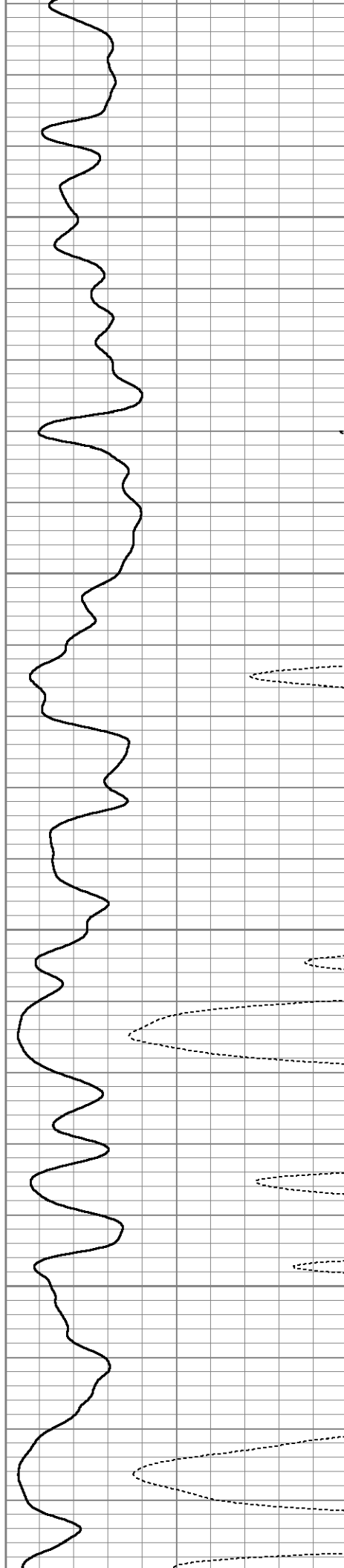


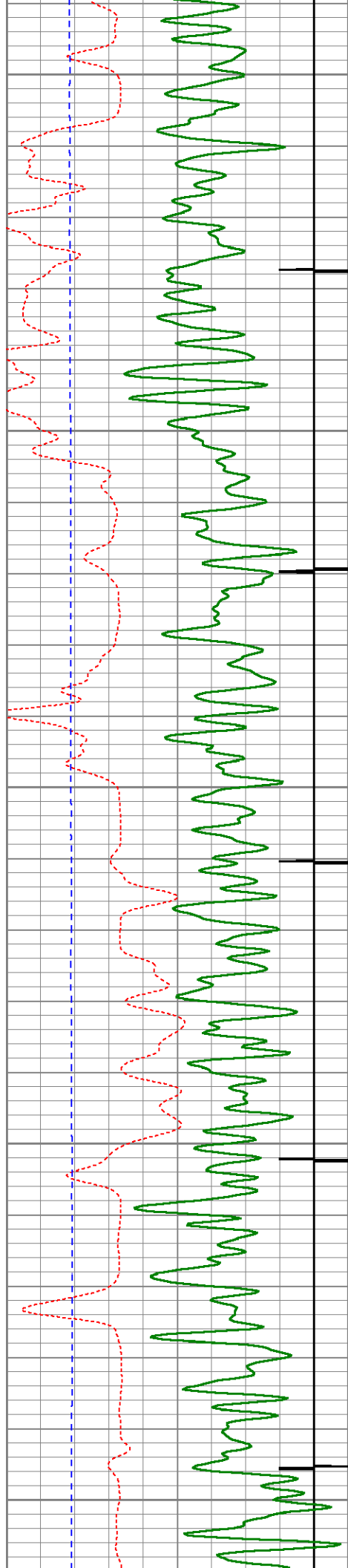
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5150

5200





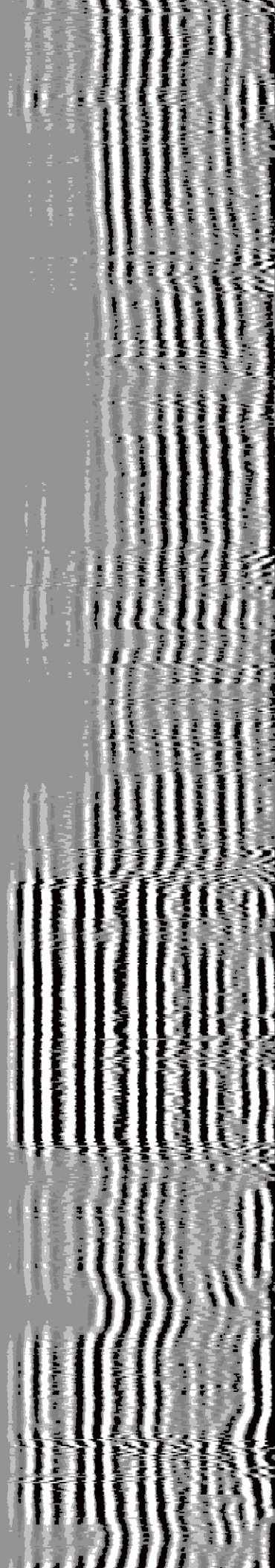
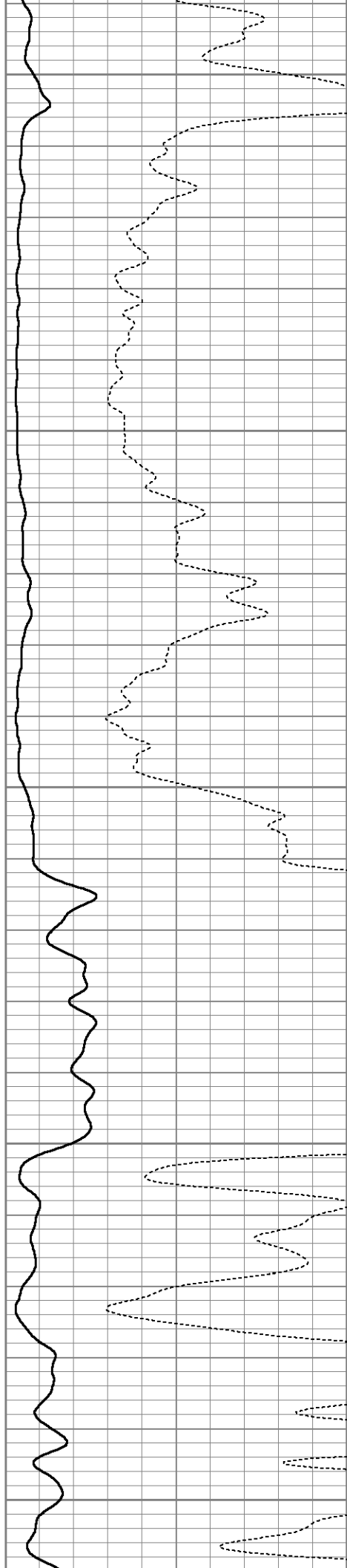
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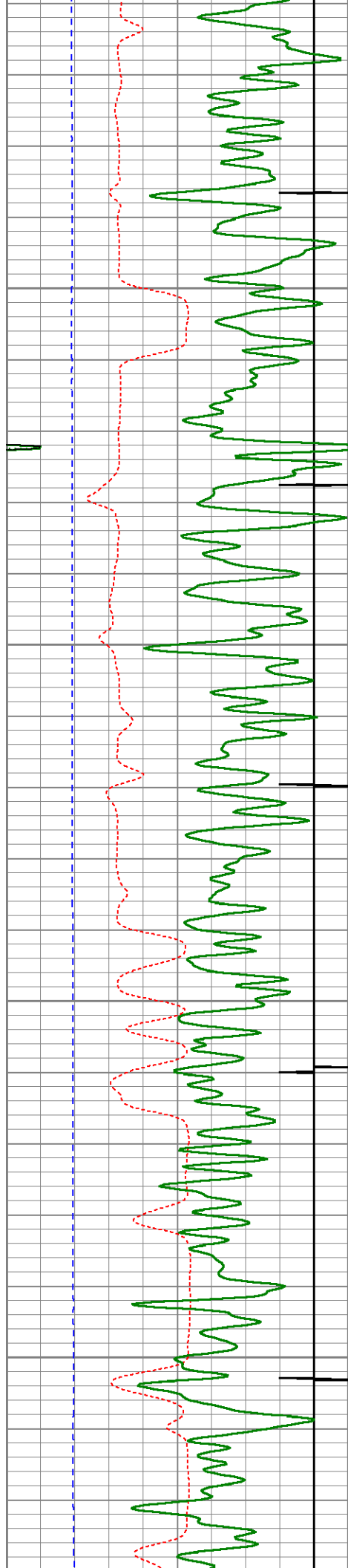
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5400

5450



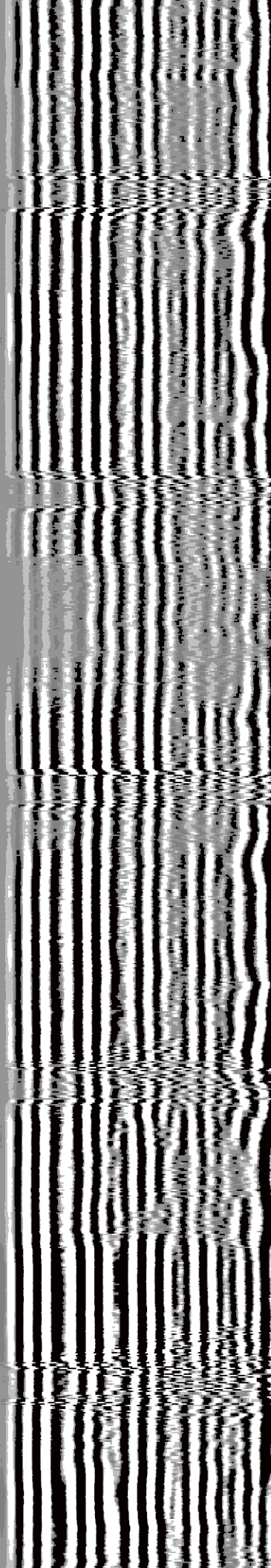
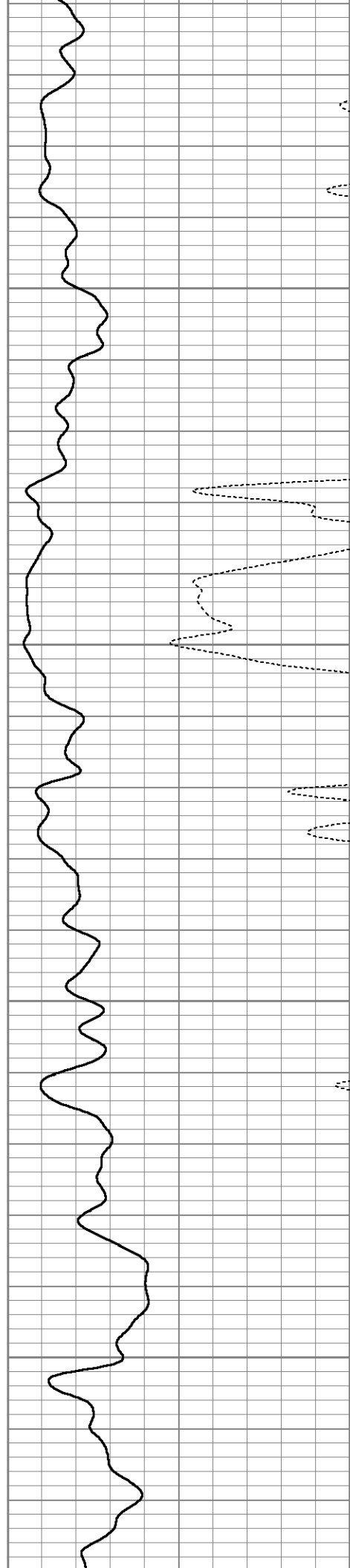


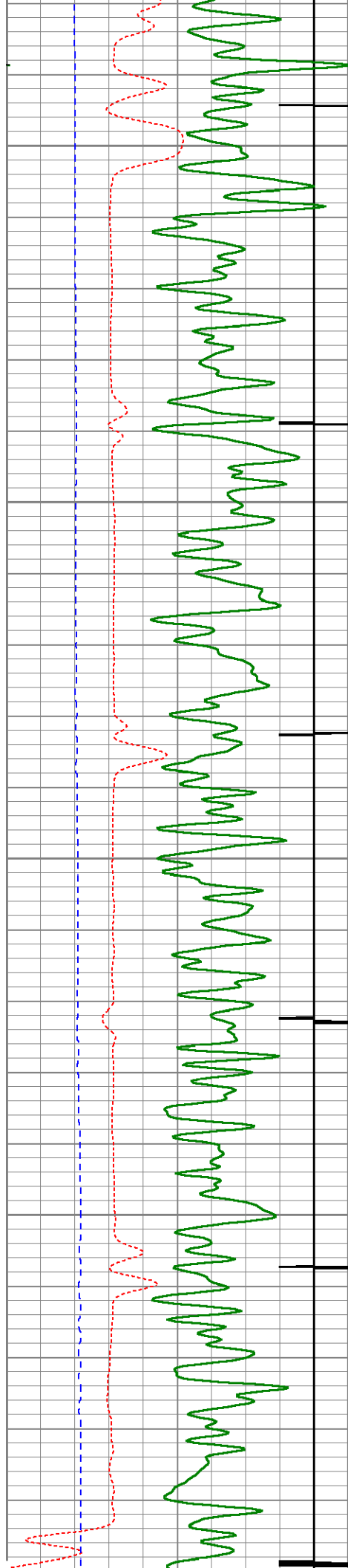
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5550

5600

5650





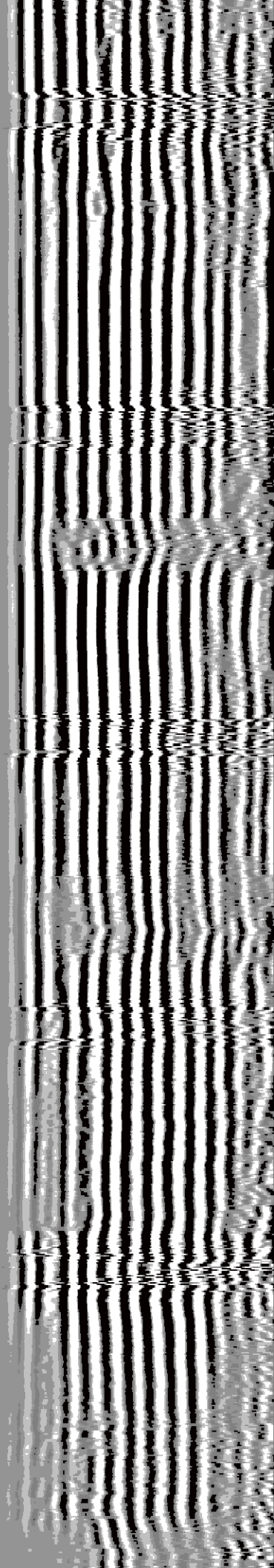
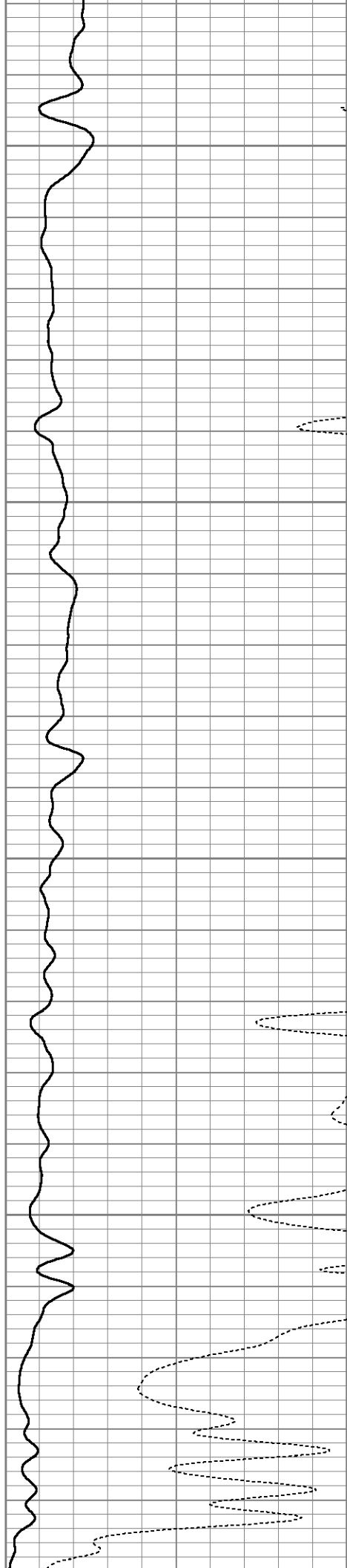
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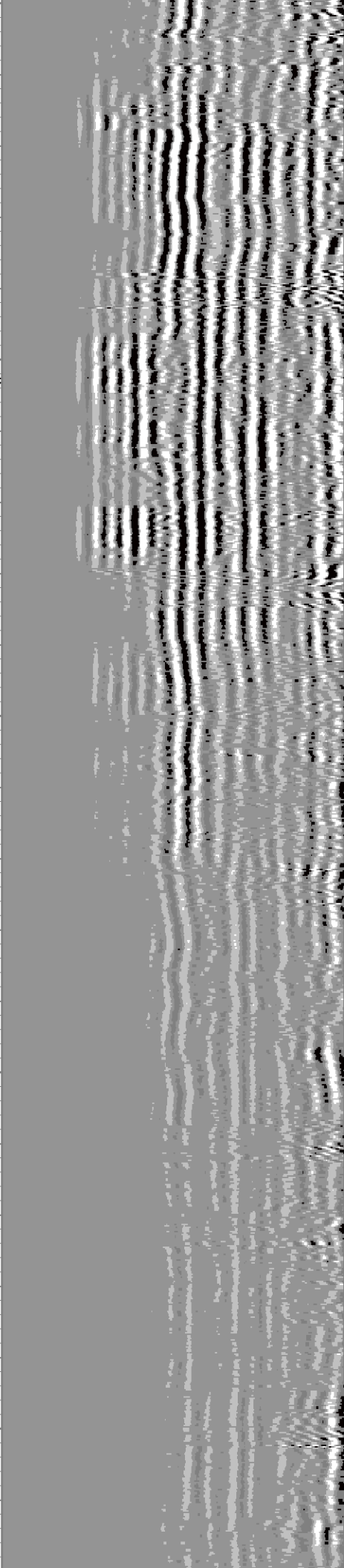
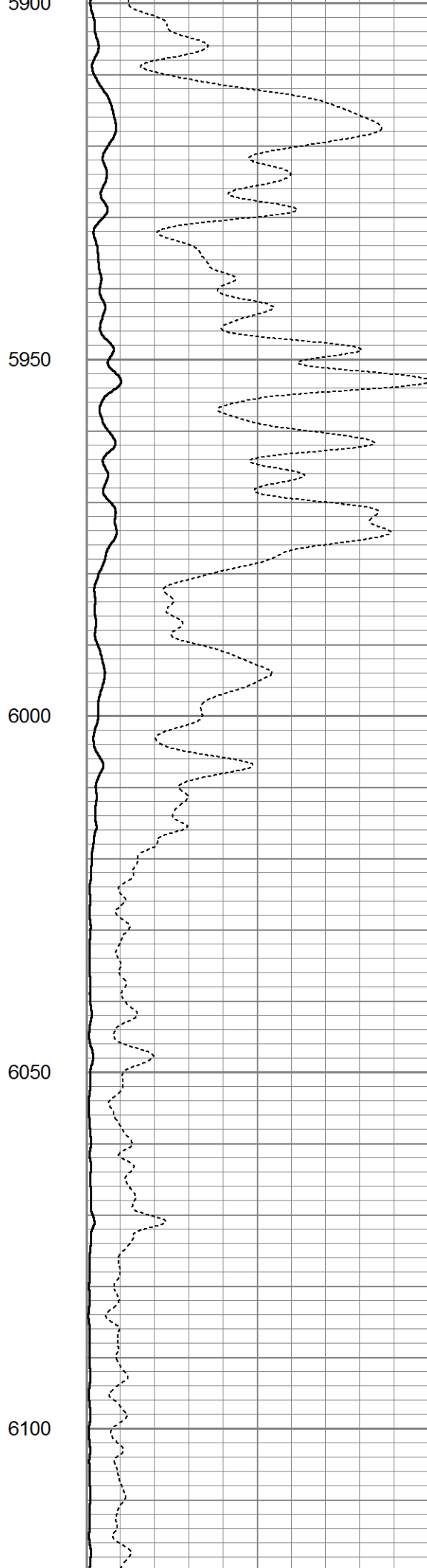
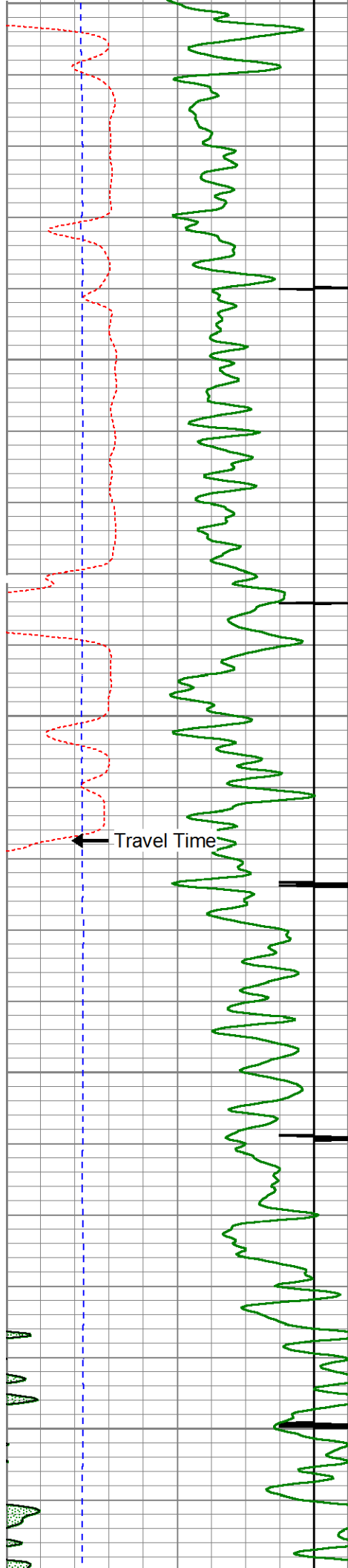
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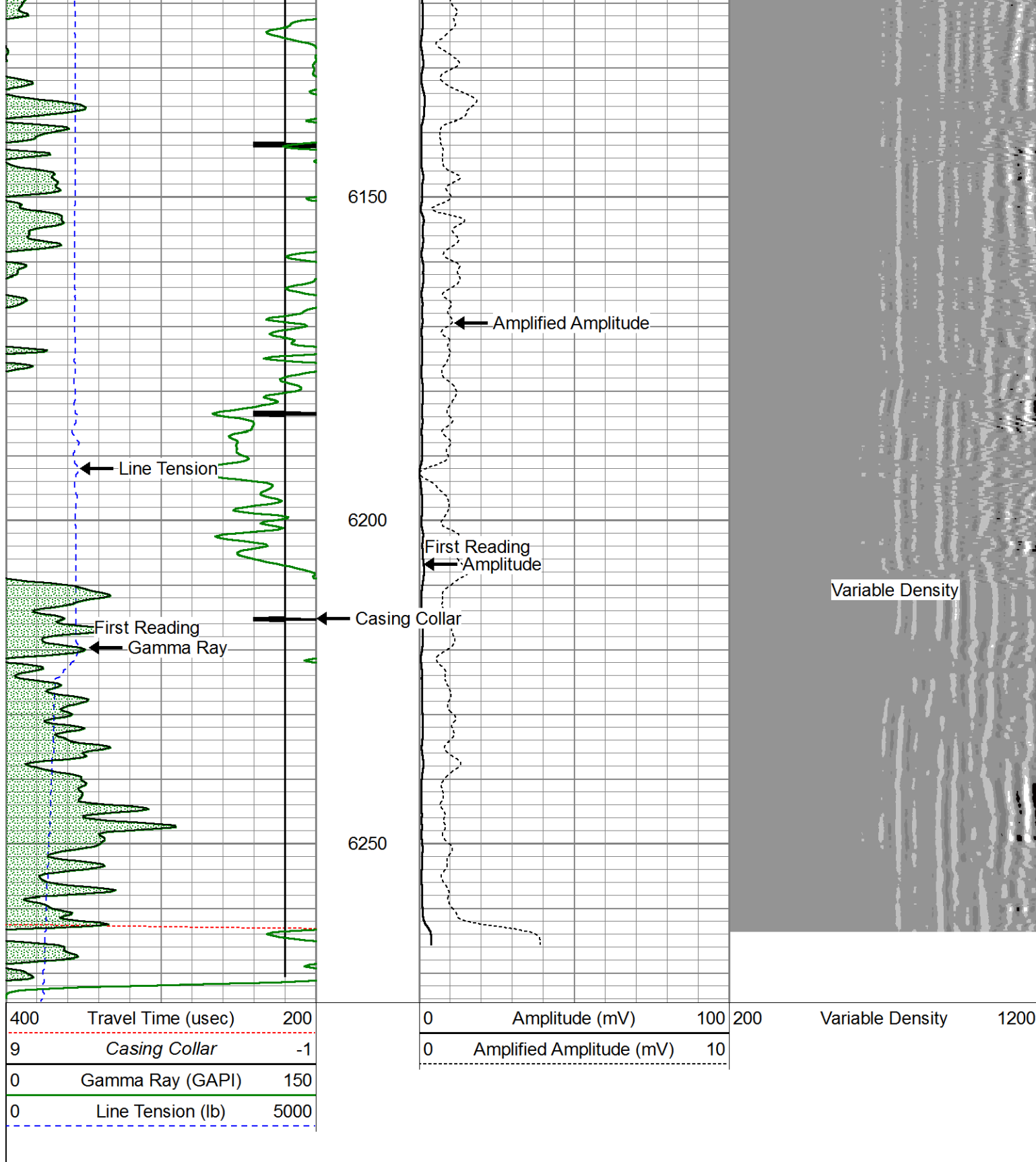
5800

5850

5900







Repeat Pass (0 P.S.I.)

Database File: c:\users\engineers\desktop\bc sates 70 holes\stateseventyholesa-e-3hnb_cbl.db
 Dataset Pathname: pass10
 Presentation Format: cblprobe
 Dataset Creation: Sat Apr 19 13:28:47 2014 by Log 0

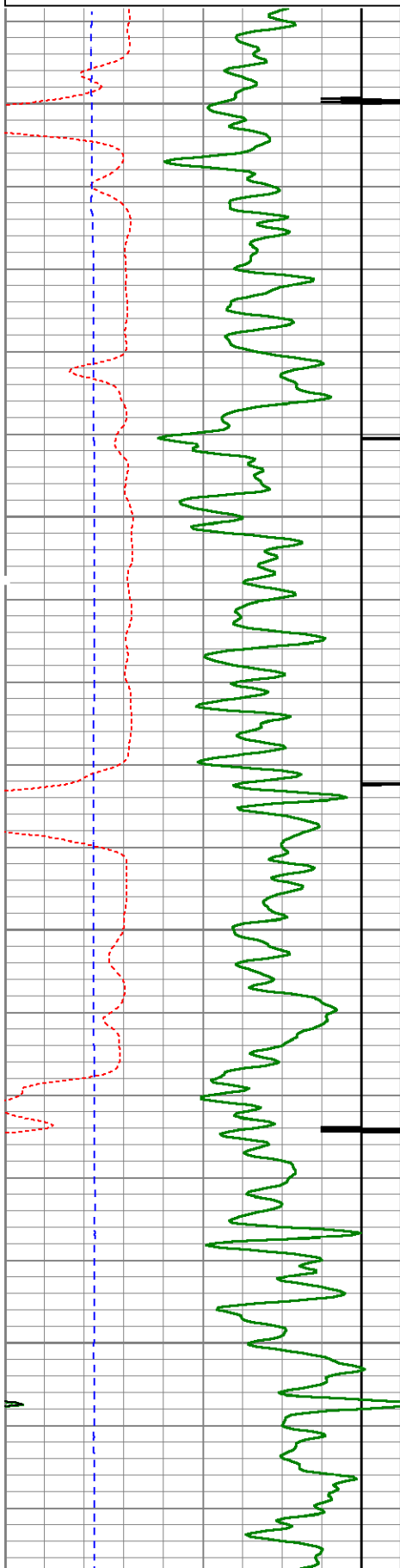
Charted by:

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

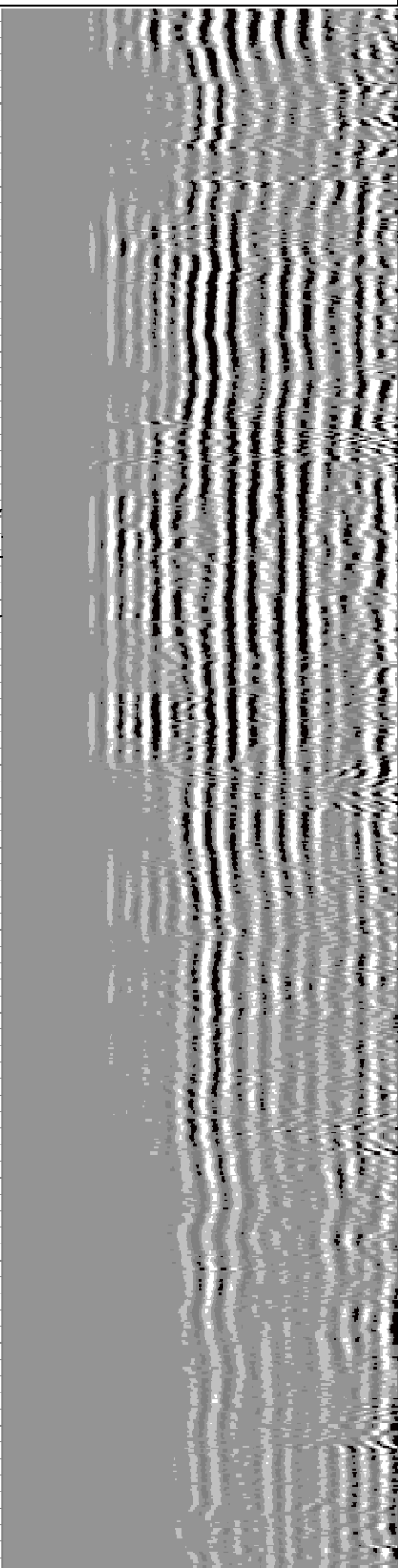
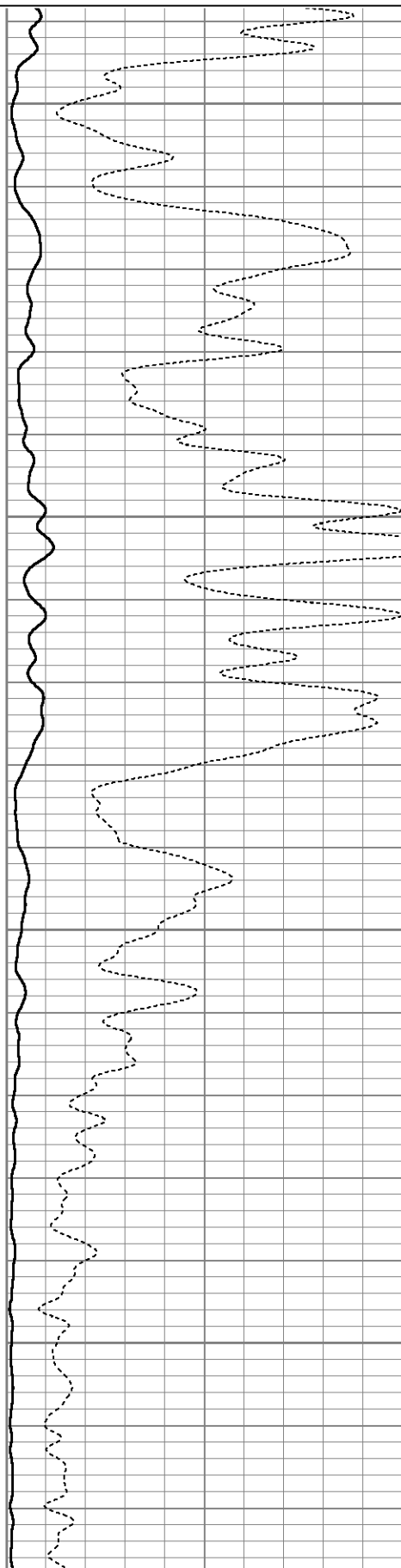


5900

5950

6000

6050



Performed: Fri Nov 29 14:39:10 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.8500 GAPI/cps

Temperature Calibration Report

Serial Number: 110108-Dig
Tool Model: Probe275
Performed: Sun Jun 13 13:33:21 1993

	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	1.00 degF	1.00 cps
Gain:	1.00	
Offset:	0.00	
Delta Spacing	2	

Segmented Cement Bond Log Calibration Report

Serial Number: 101224
Tool Model: Probe

Calibration Casing Diameter: 5.500 in
Calibration Depth: 0.110 ft

Master Calibration, performed Sat Apr 19 08:02:42 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.020	0.722	1.000	71.921	180.652	3.918
CAL	-0.019	0.754				
5'	-0.017	0.659	1.000	71.921	104.939	2.732
SUM						
S1	0.025	0.743	0.000	100.000	139.403	-3.541
S2	-0.022	0.724	0.000	100.000	134.135	2.923
S3	-0.019	0.737	0.000	100.000	132.274	2.553
S4	-0.020	0.744	0.000	100.000	130.856	2.636
S5	-0.020	0.737	0.000	100.000	132.106	2.651
S6	-0.020	0.729	0.000	100.000	133.435	2.663
S7	-0.020	0.724	0.000	100.000	134.317	2.717
S8	-0.020	0.729	0.000	100.000	133.503	2.642

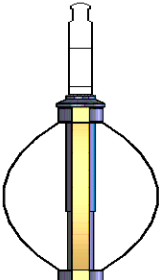
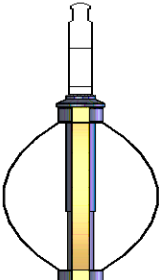
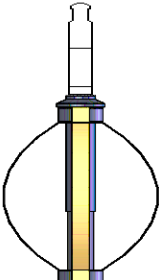
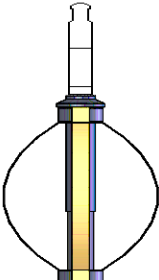
Internal Reference Calibration, performed Mon Oct 10 09:42:03 2005:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.019	0.754	1.000	0.000

Air Zero Calibration, performed Sun Oct 27 20:29:00 2013:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
0'	0.000	0.000	0.000

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)
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT			Titan Cable_head	1.00	1.44	10.00
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL TEMP GR	11.84		RBT-Probe (101224) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
	11.84					
	11.84					
	11.84					
	11.84					
	10.84		Probe275 2.75" Centralizer	2.88	2.75	20.00
	3.88					
	2.54		GR-Probe275 (110108-Dig)	4.78	2.75	57.00

