



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

Company		Bonanza Creek Energy			
Well		State Seventy Holes F11-J14-3HNC			
Field		Wattenberg			
County		Weld			
State		Colorado			
Location:		API # : 05-123-38884			
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		6278'			
Bottom Logged Interval		6265'			
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		11:32			
Time Logger on Bottom		12:07			
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		Size Wgt/Ft Top Bottom			
Surface String		9 5/8" 36# 0 452'			
Prot. String					
Production String		7" 26# 0 6431'			
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

Primary Log on this Well

Main Pass and Repeat Pass logged with 0 PSI

Logged from 16' Kelly Bushing

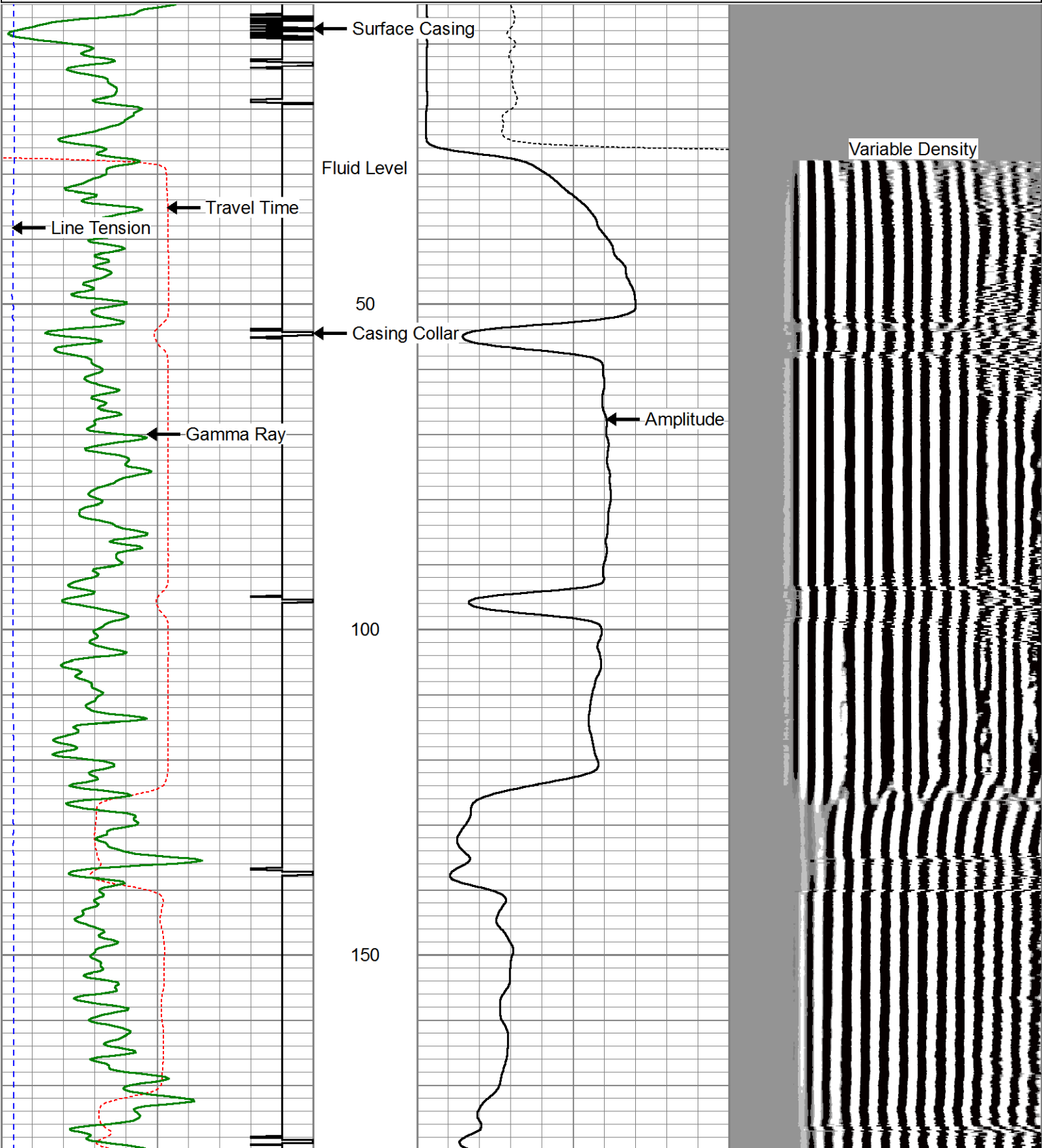
Logging Speed Requested by Company

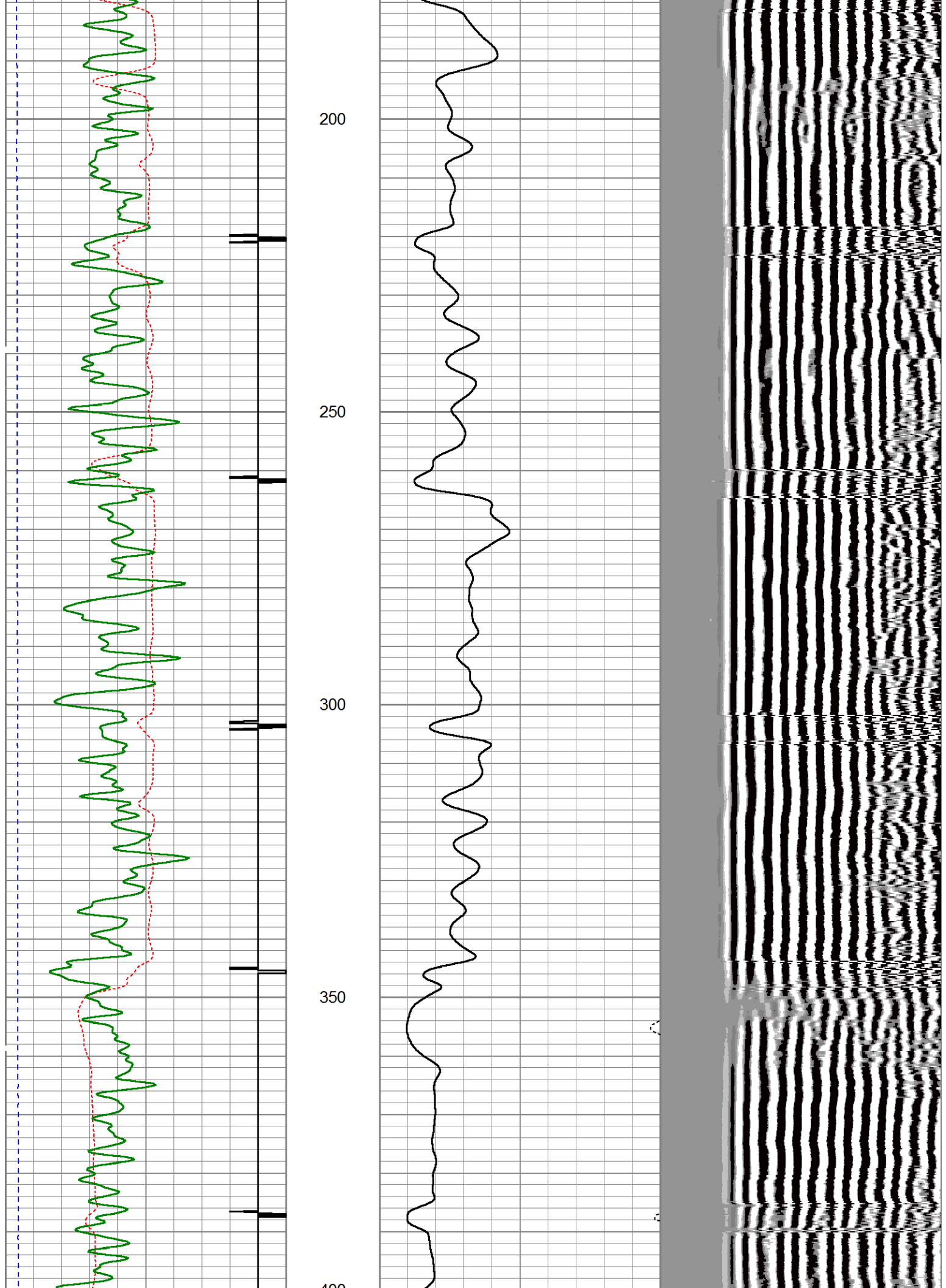
Thank You For using Allied Wireline Services
(303) 659-4609

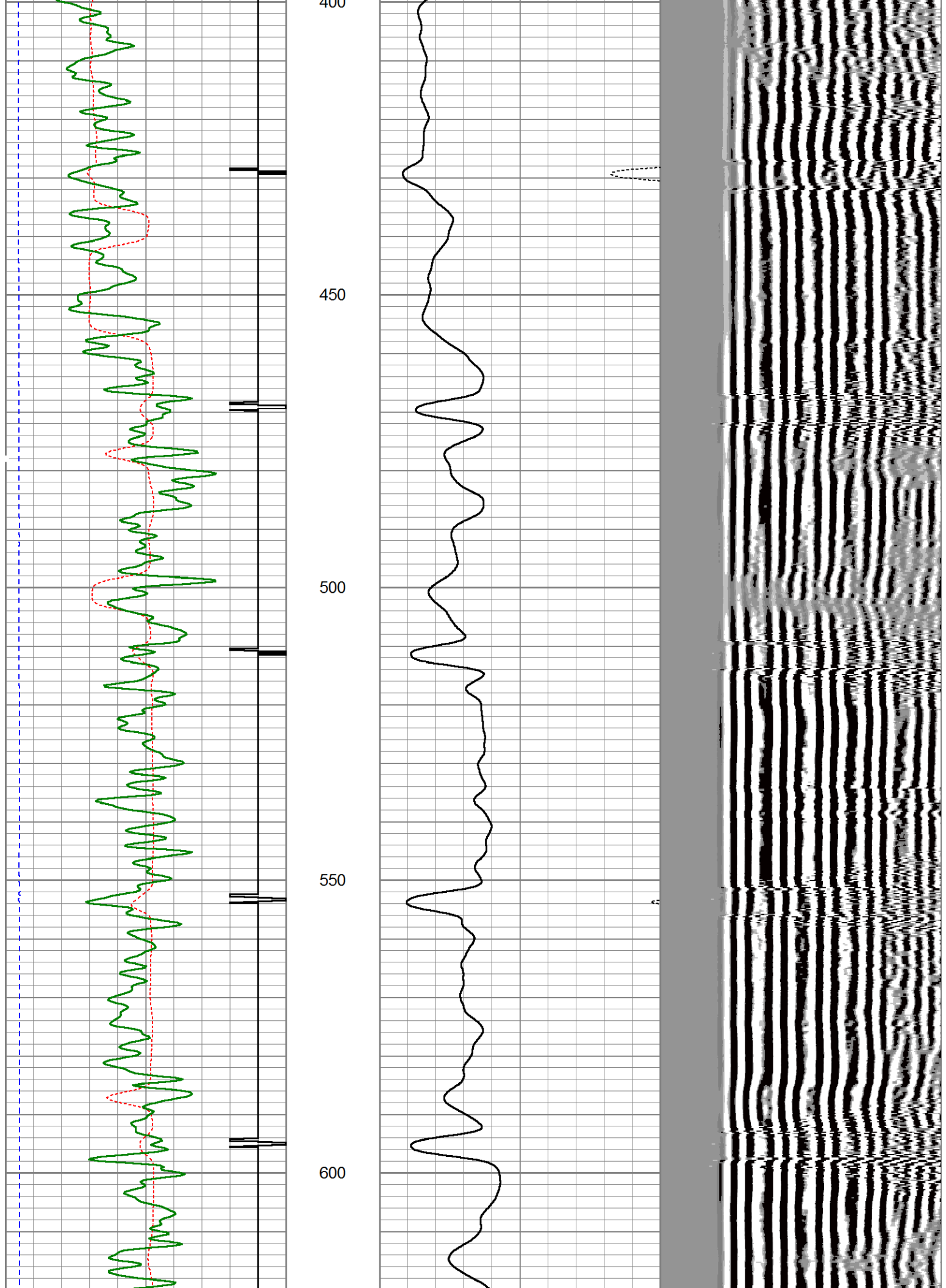


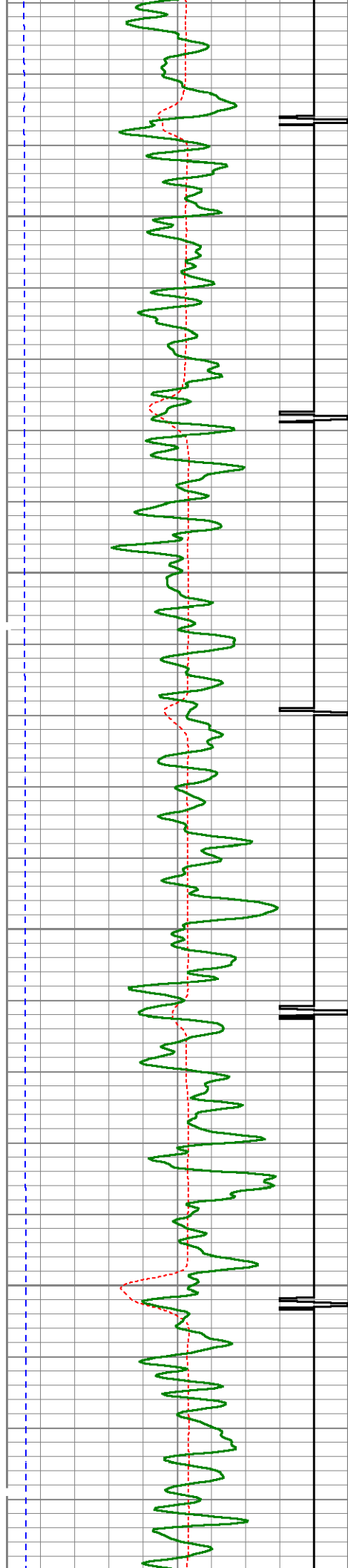
Main Pass (0 P.S.I.)

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						







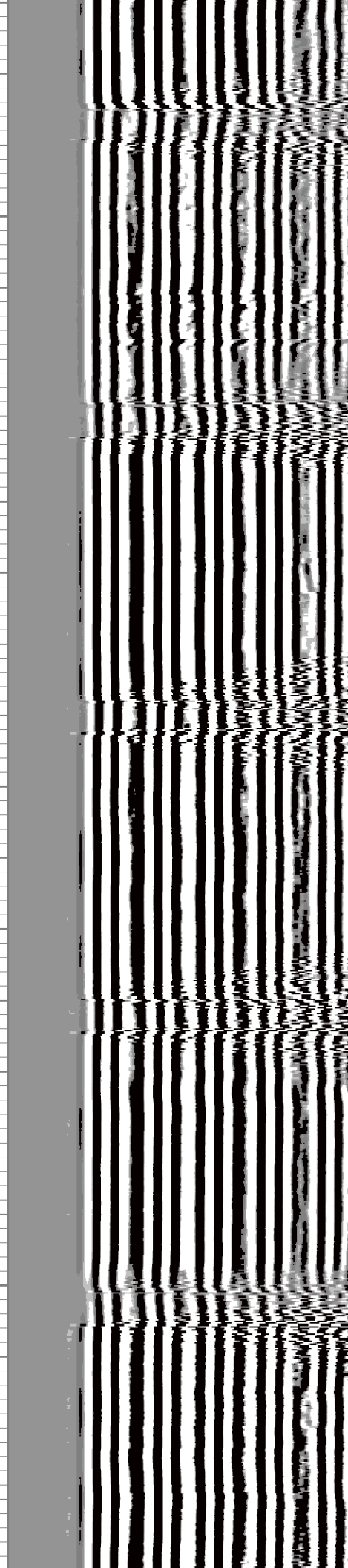
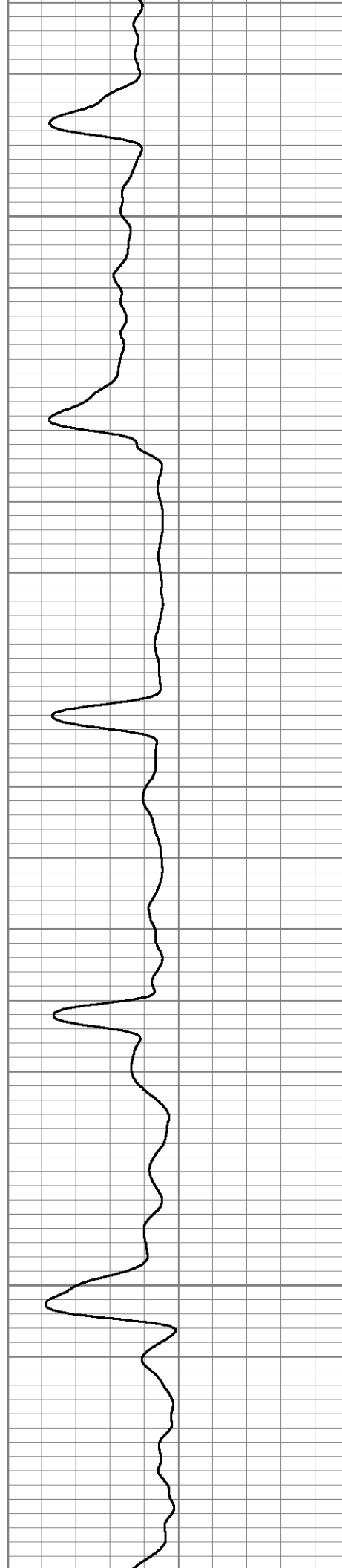


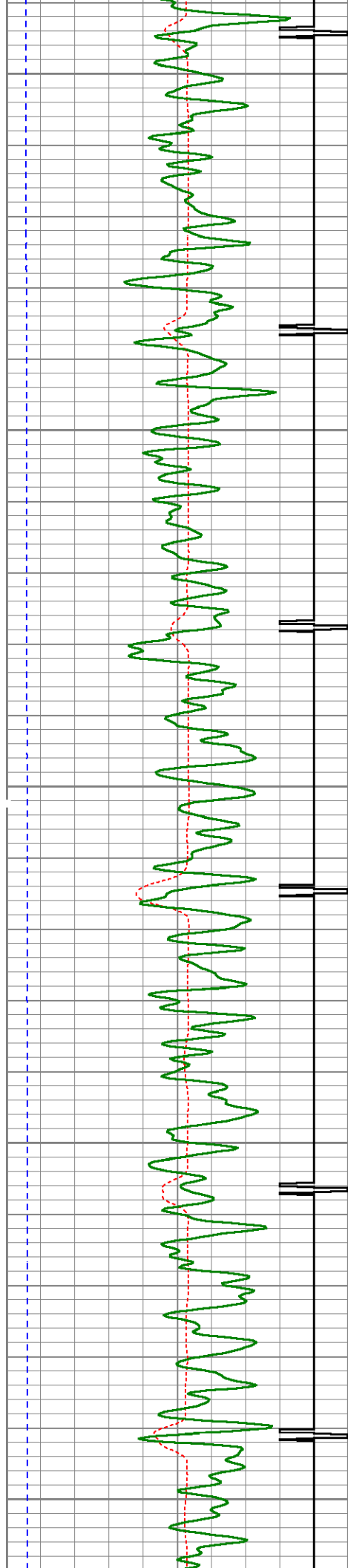
650

700

750

800





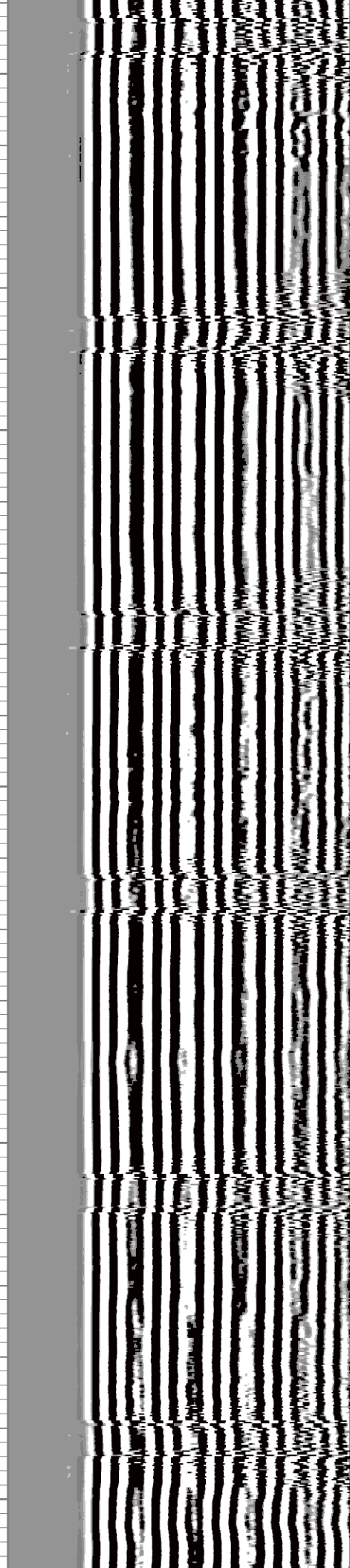
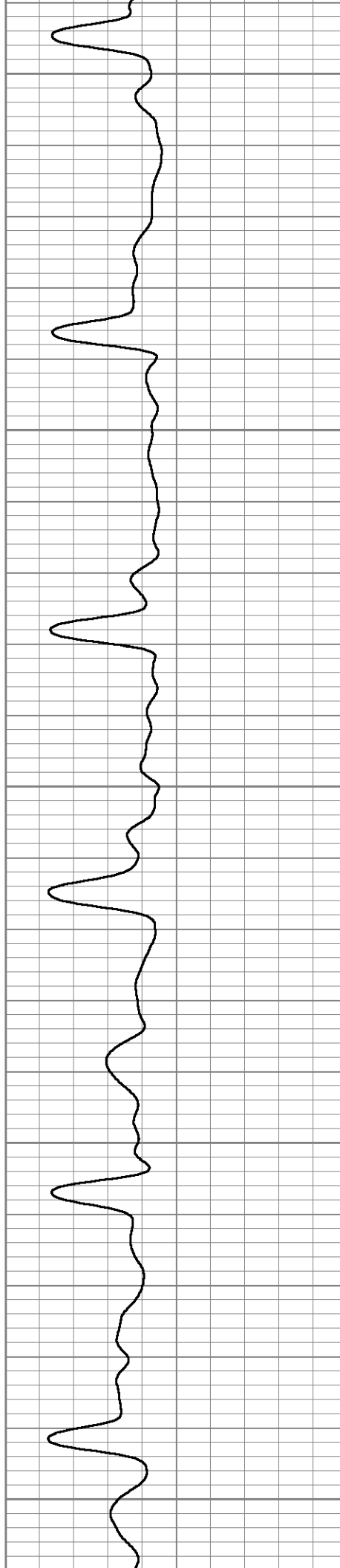
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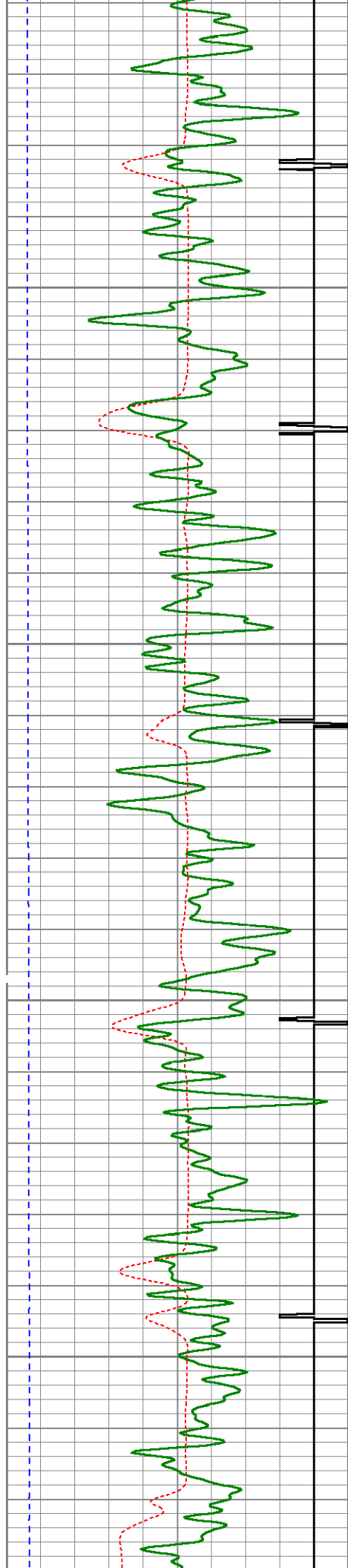
900

950

1000

1050



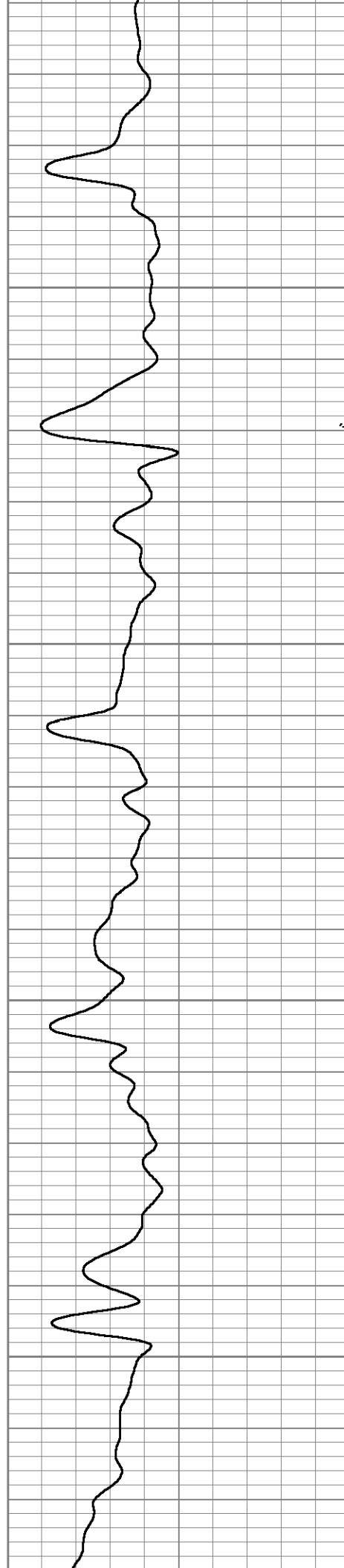


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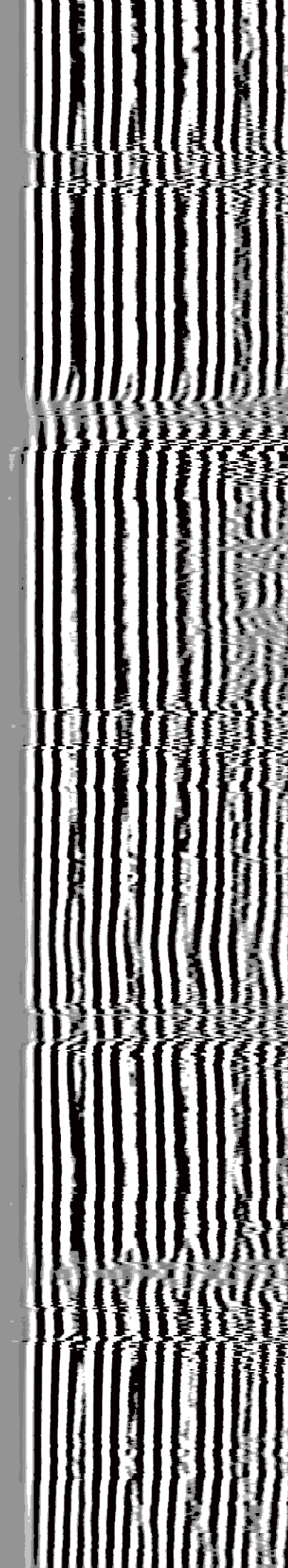
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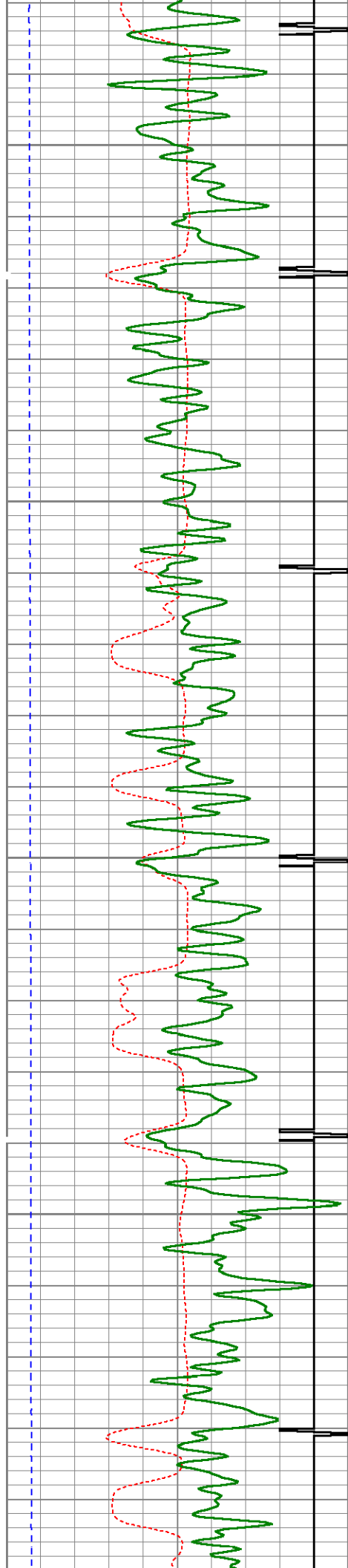
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12





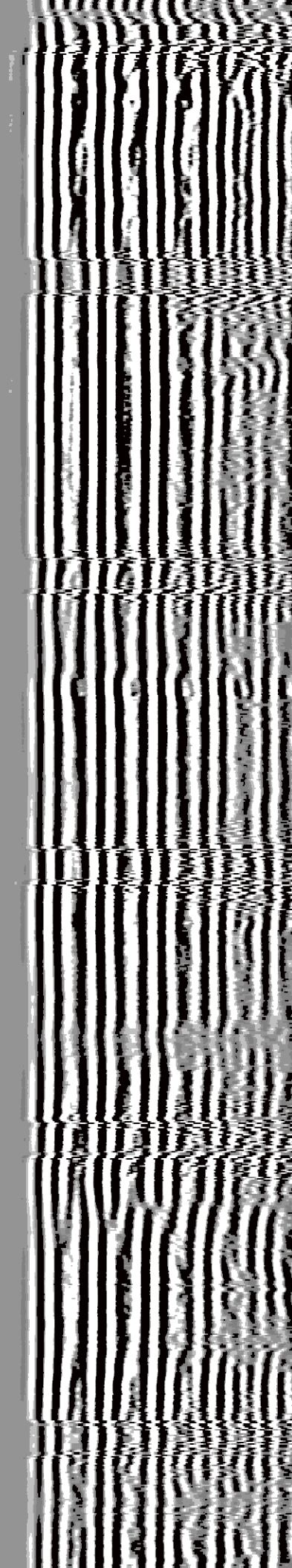
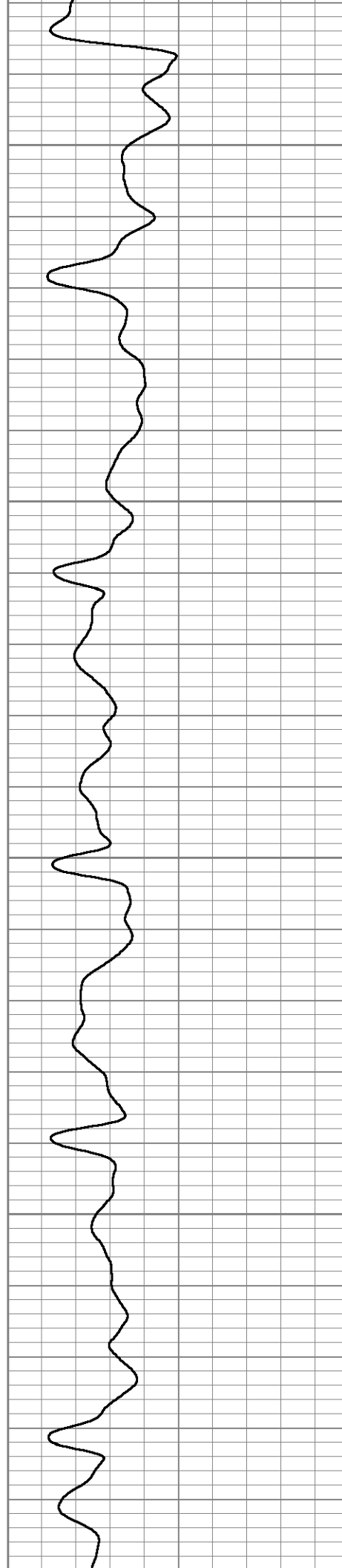
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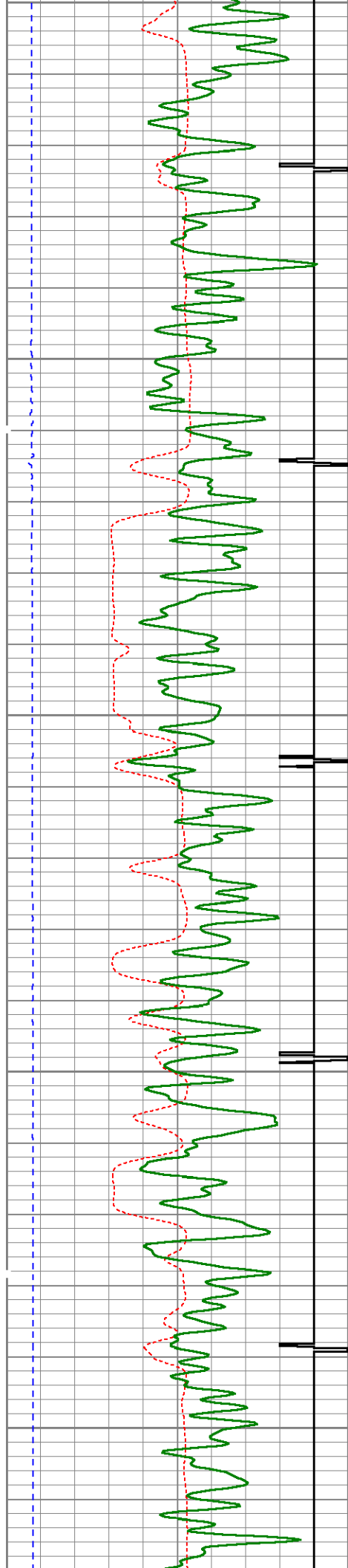
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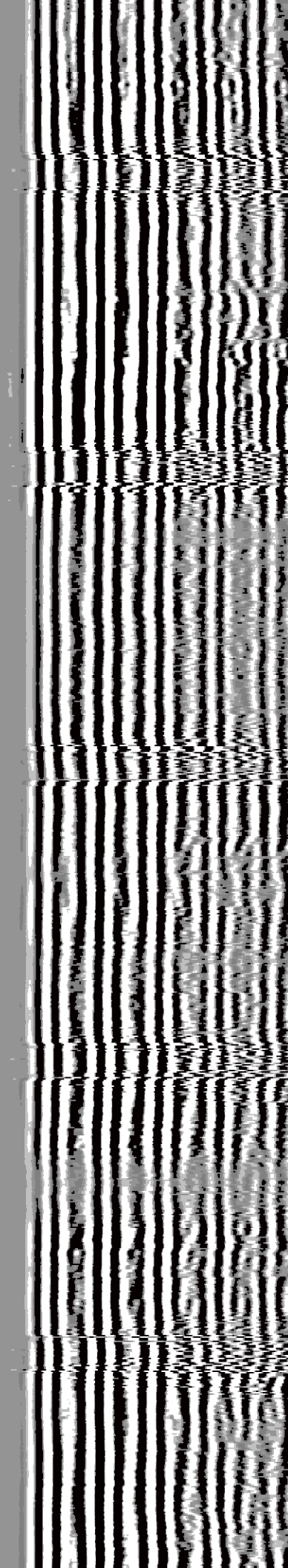
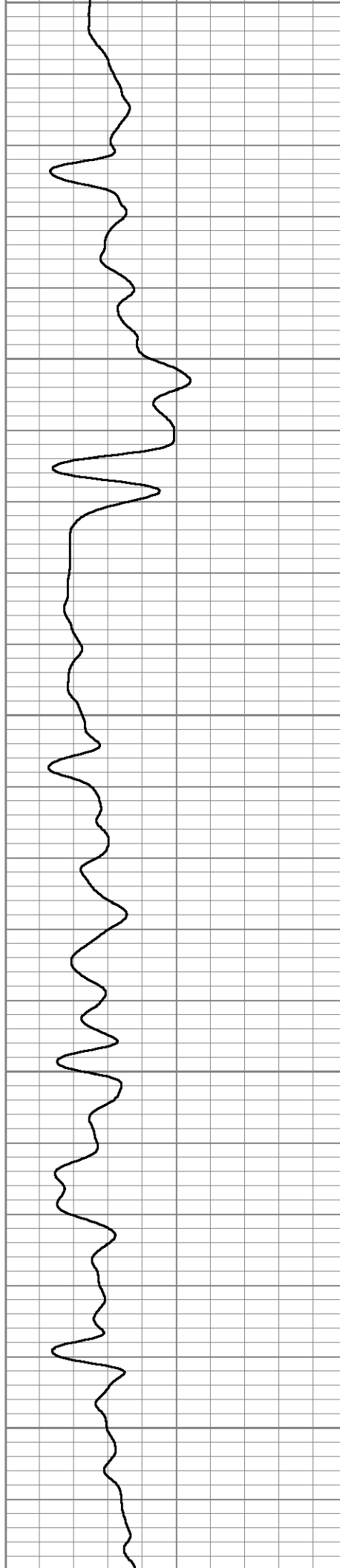
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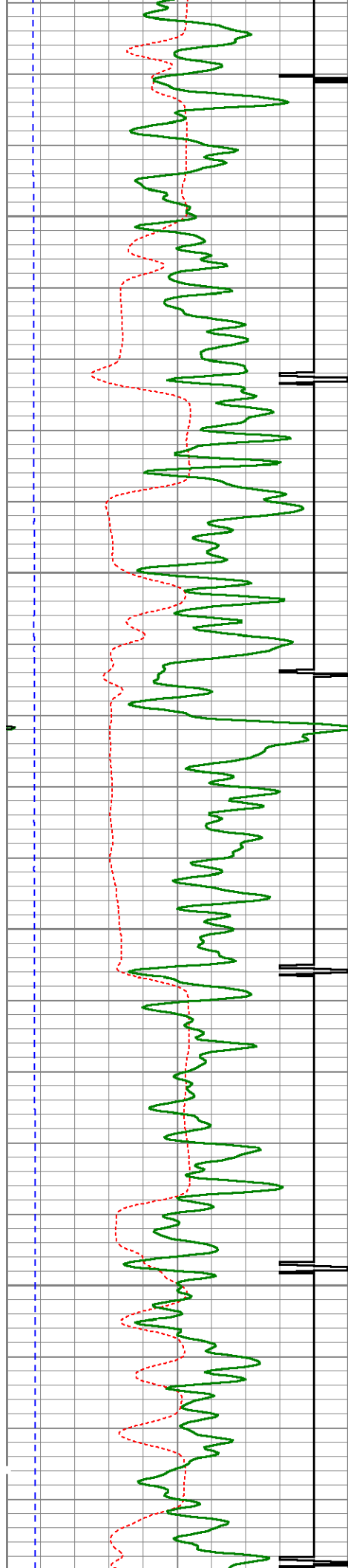
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1500
1550
1600
1650
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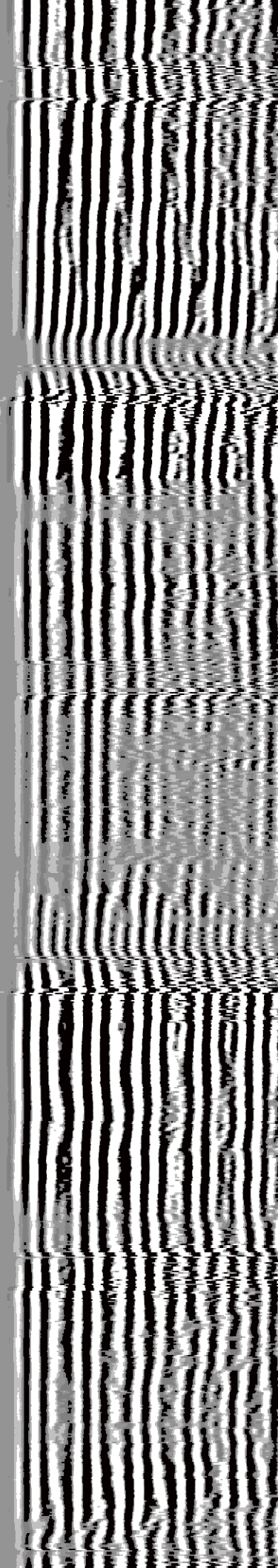
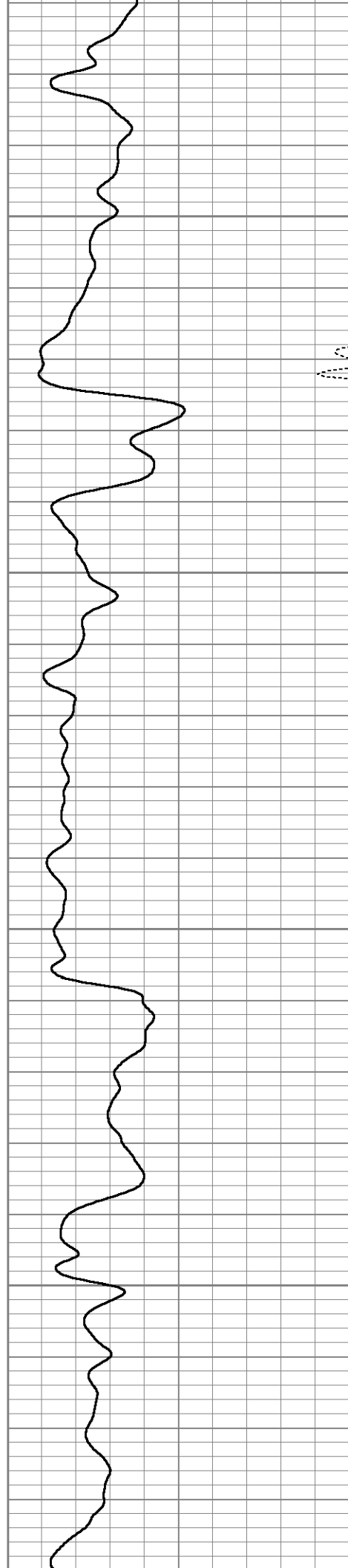


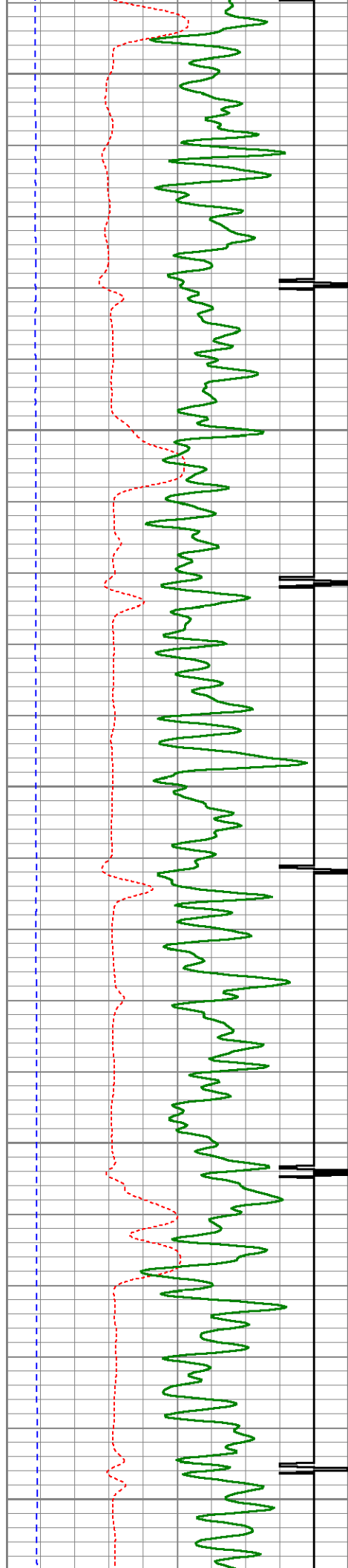
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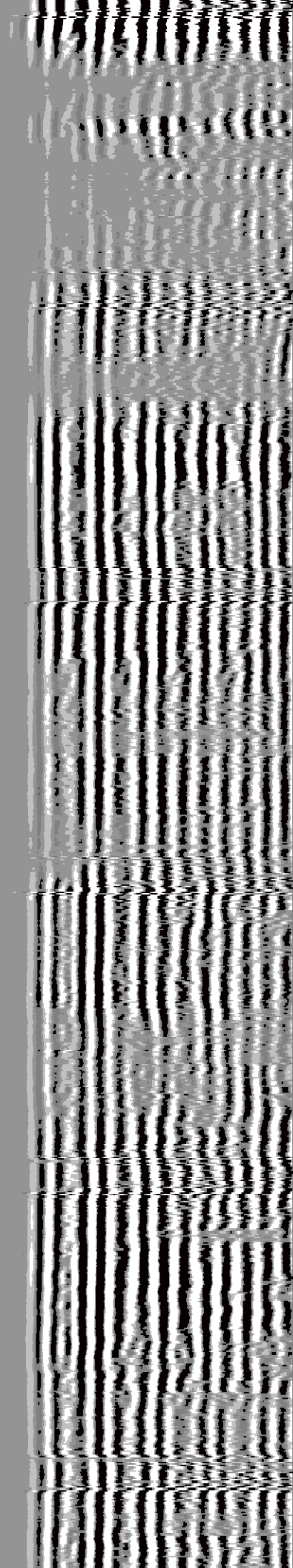
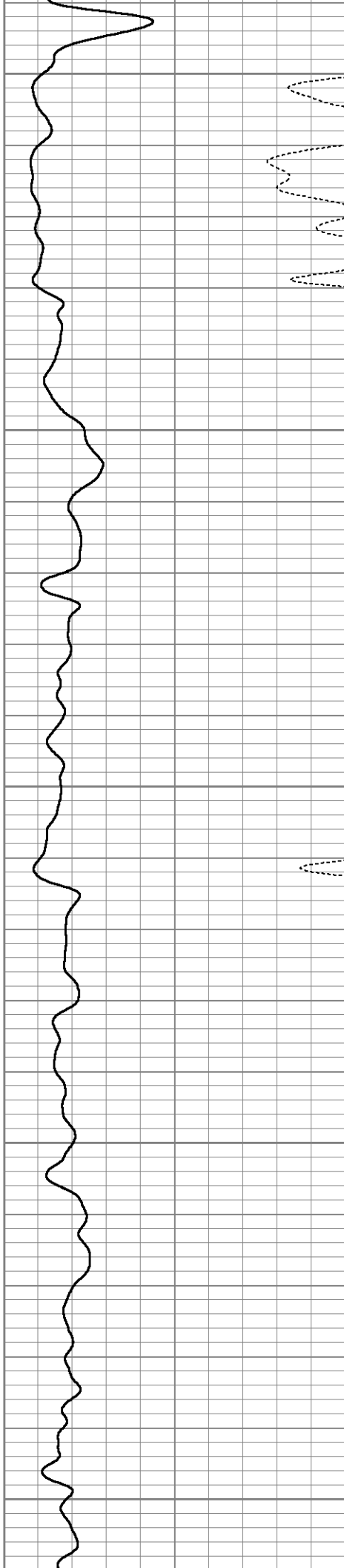
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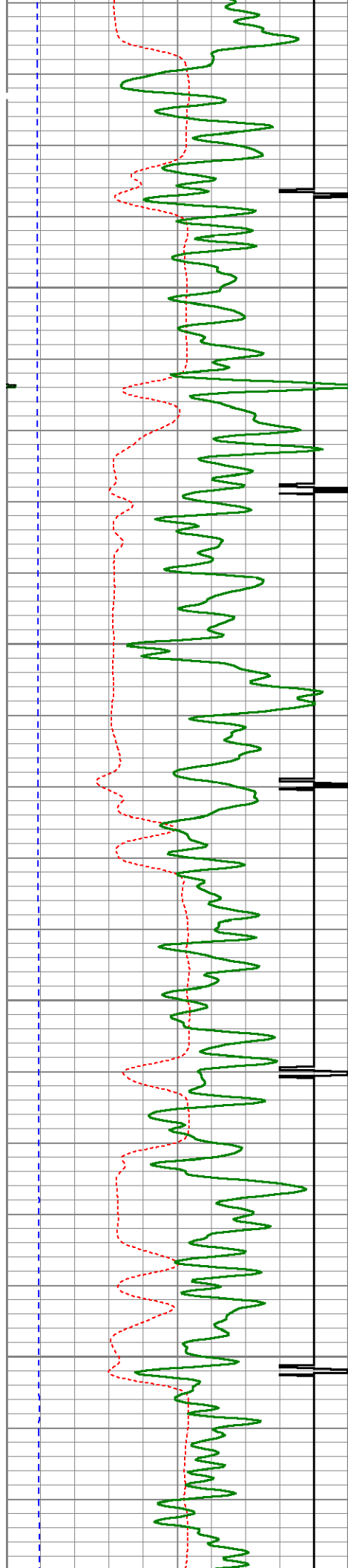
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2050

2100

2150



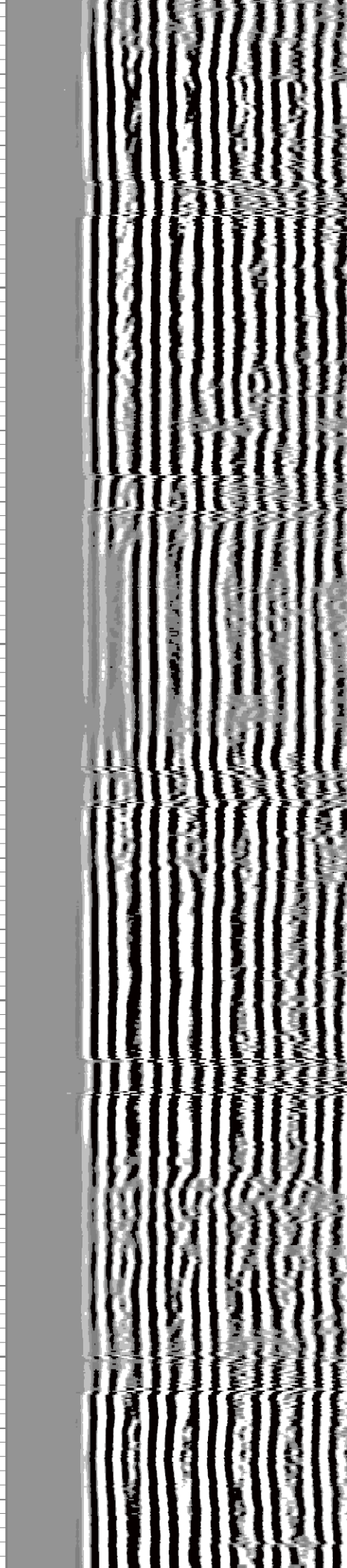
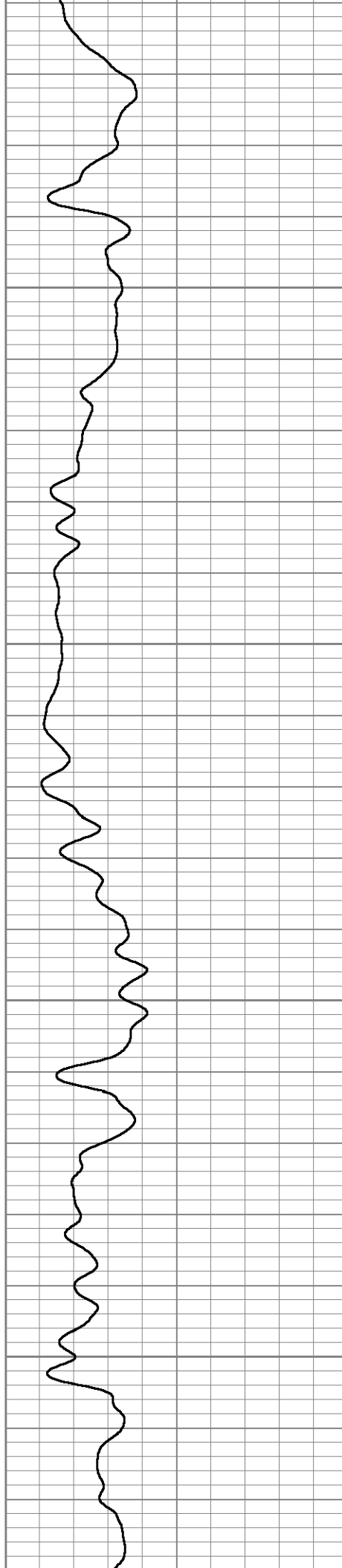


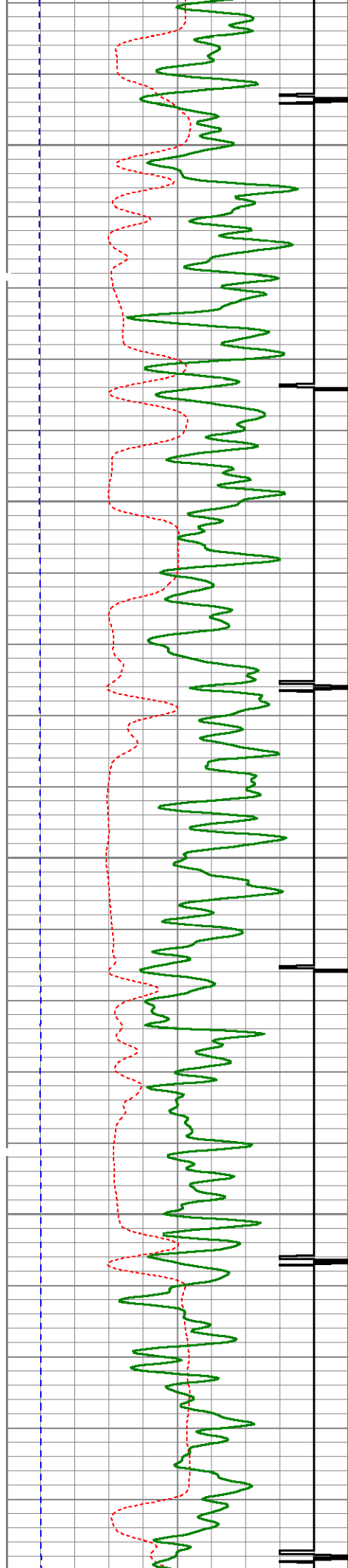
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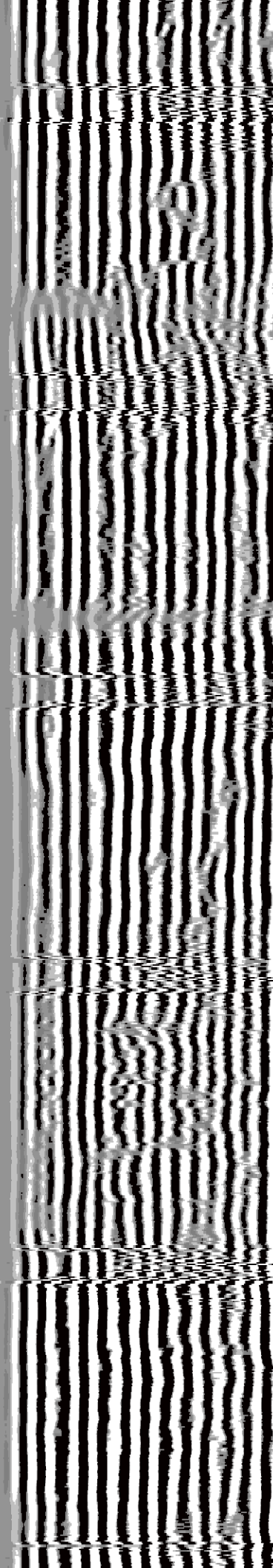
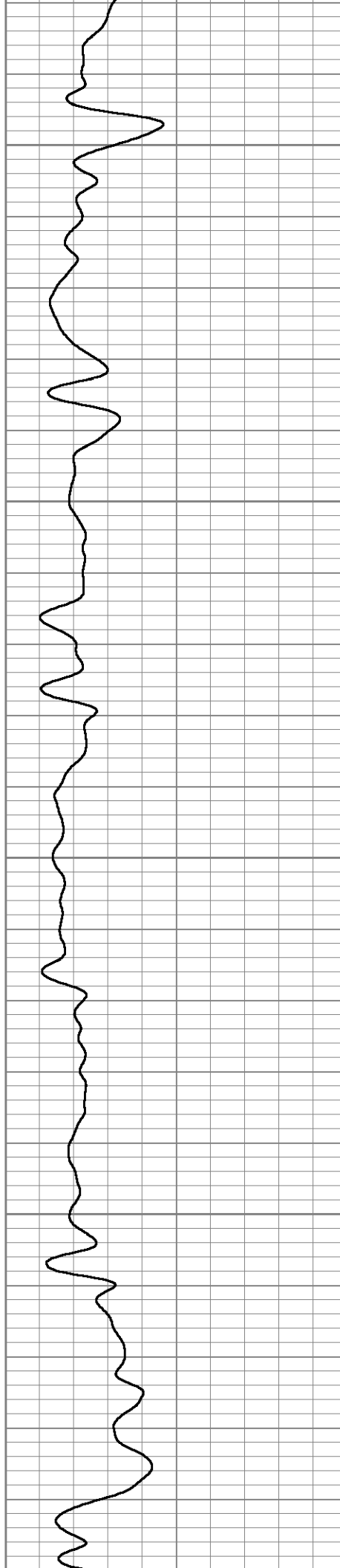
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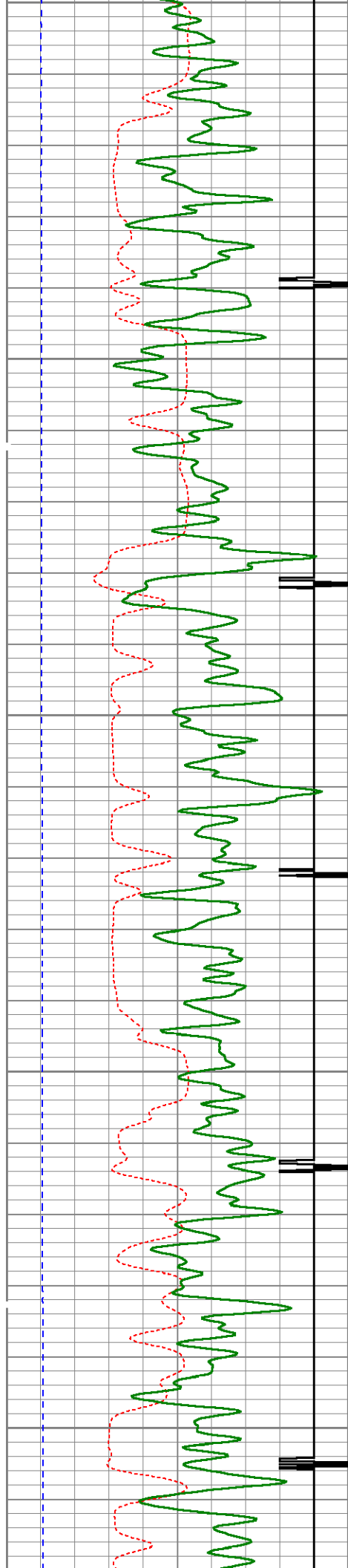
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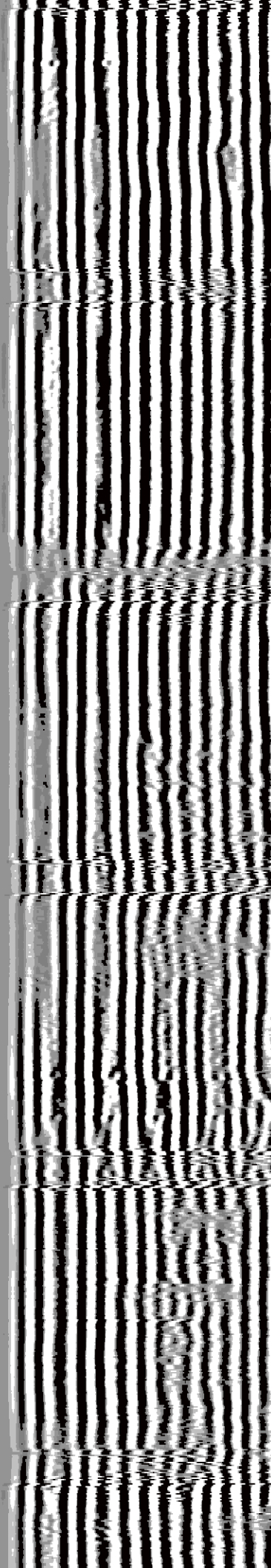
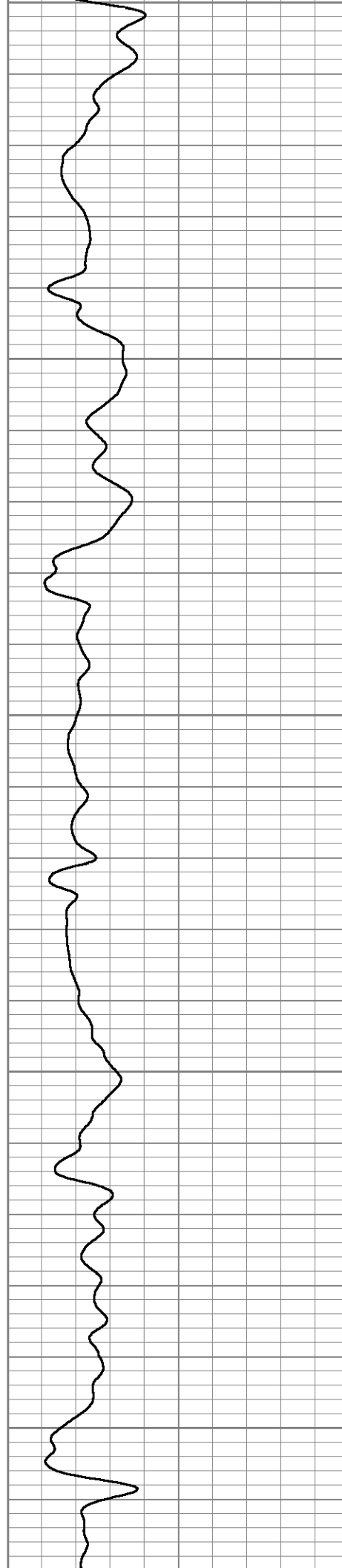
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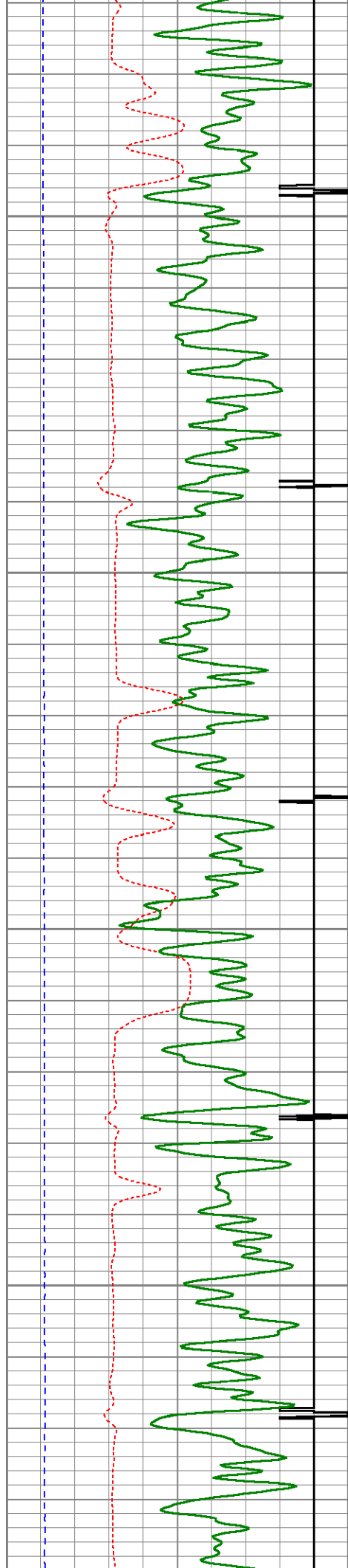
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2600
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2800



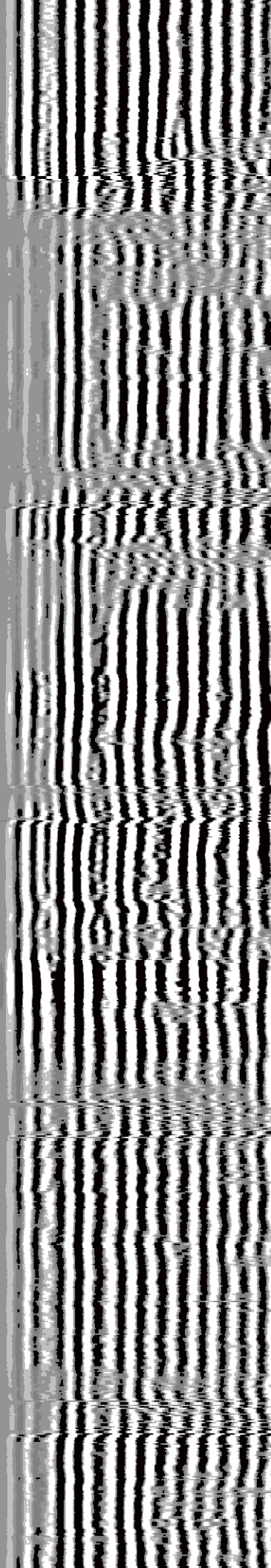
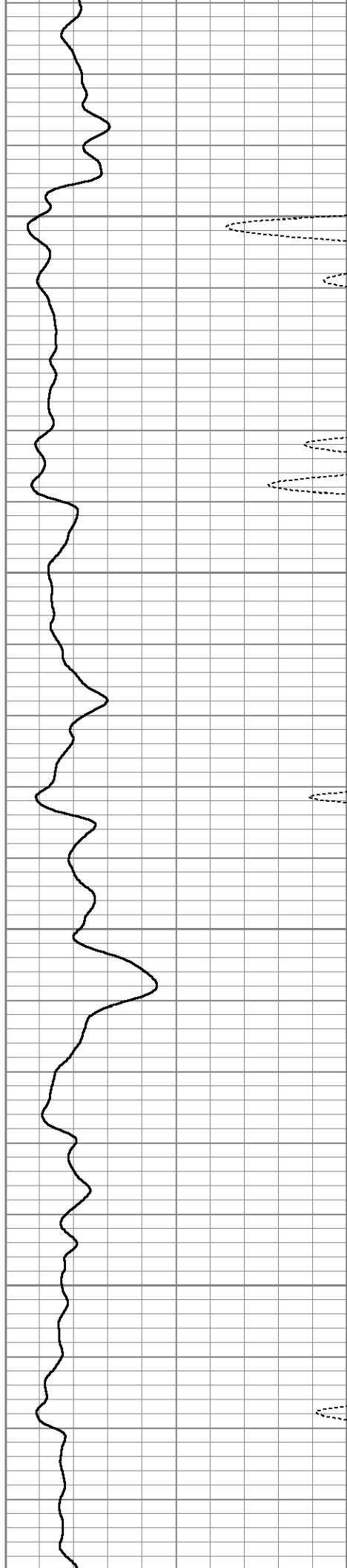


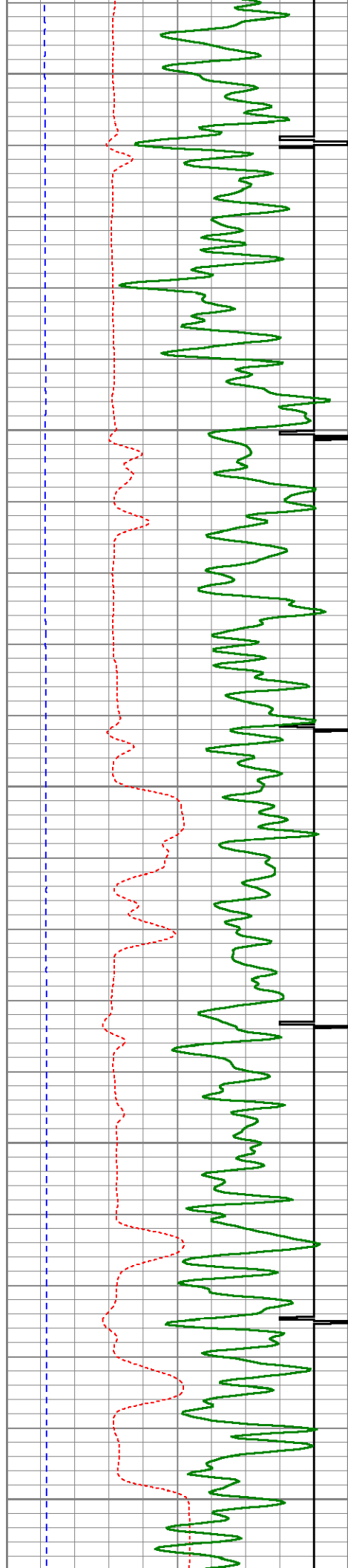
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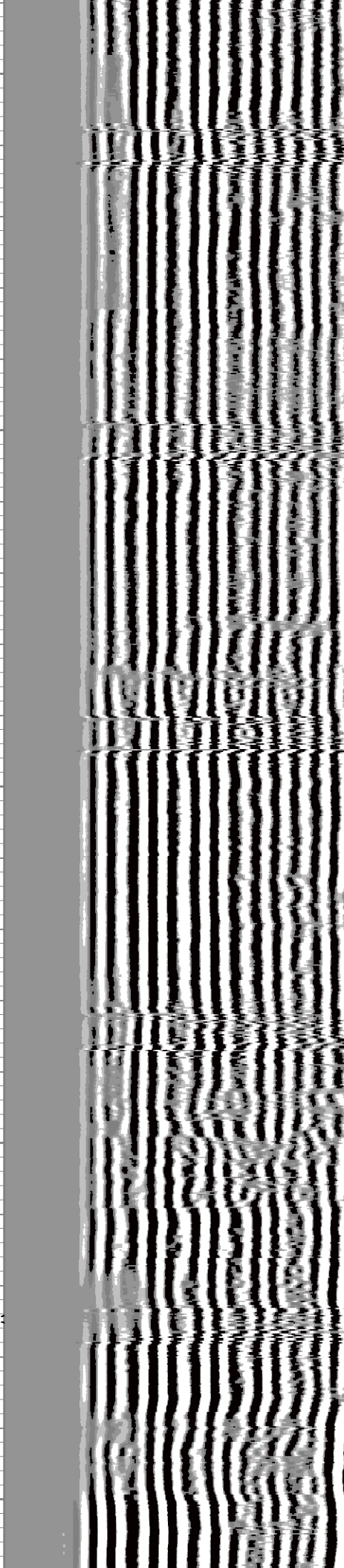
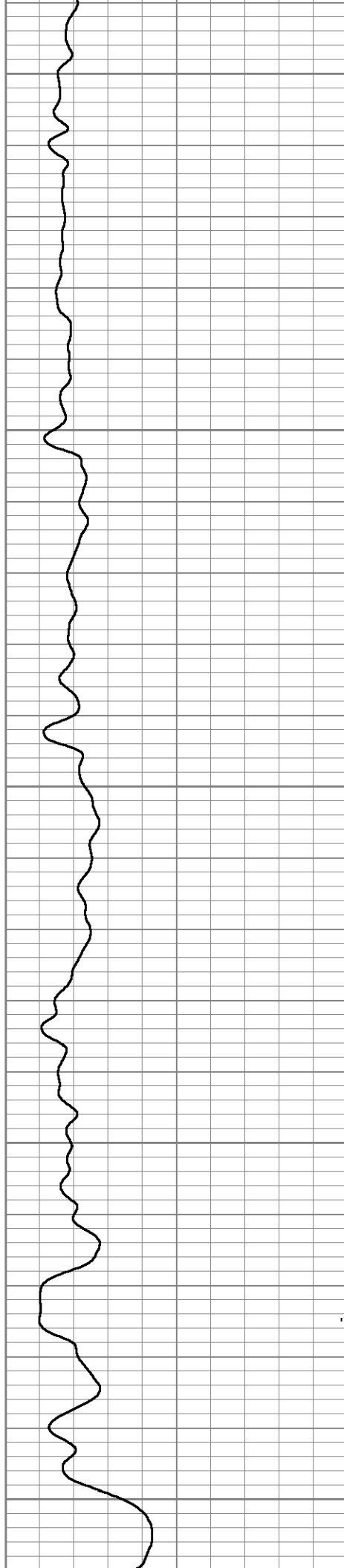
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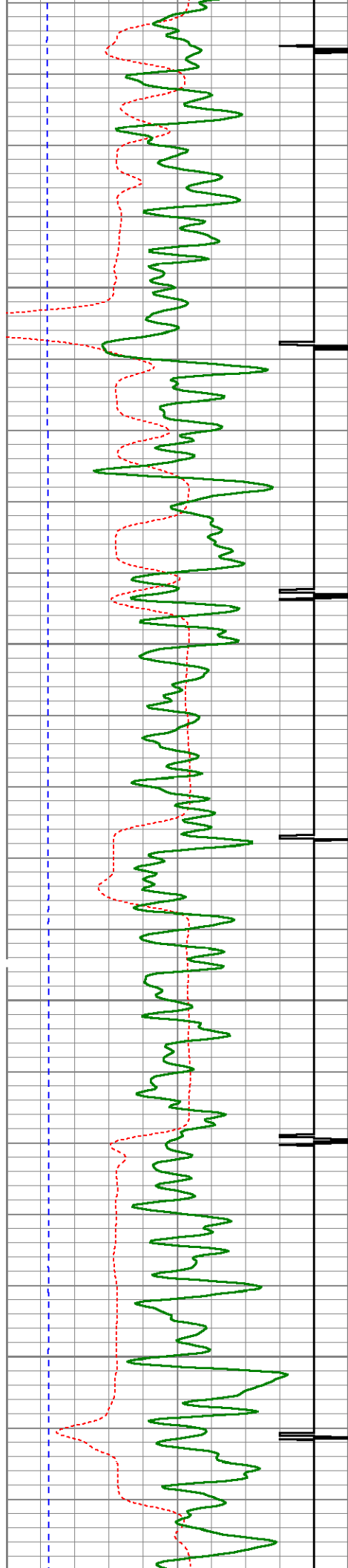
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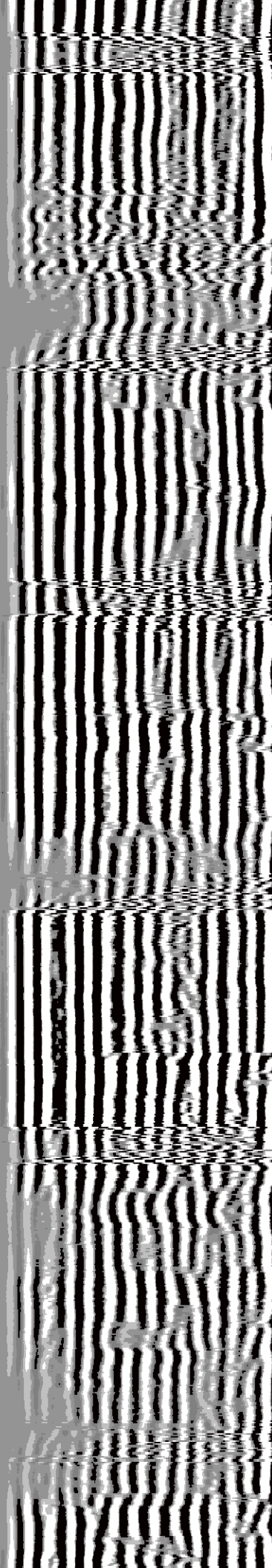
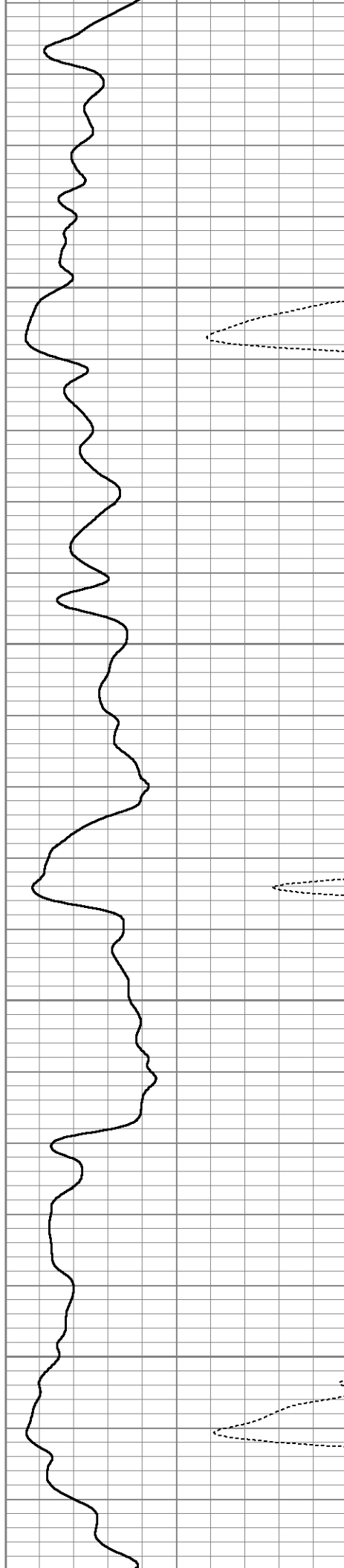


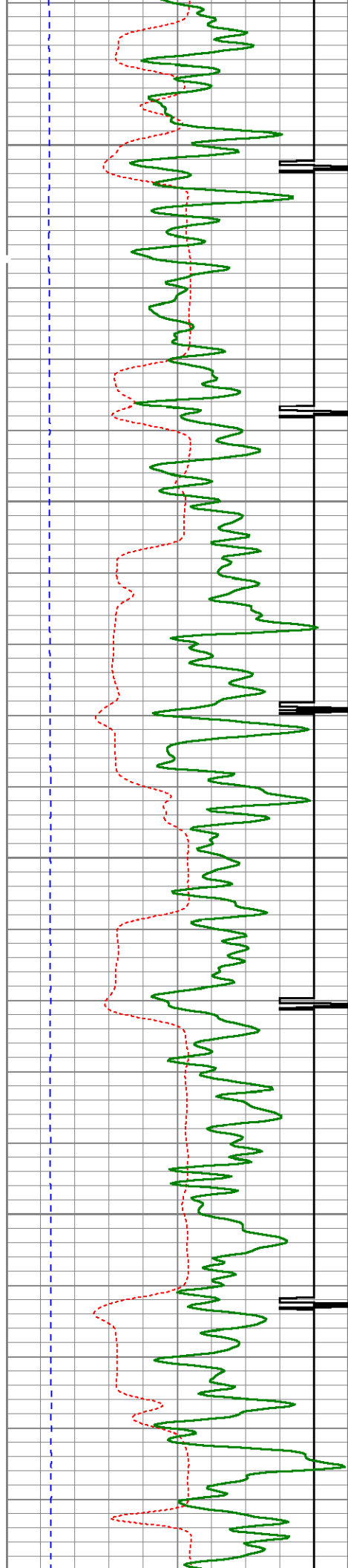
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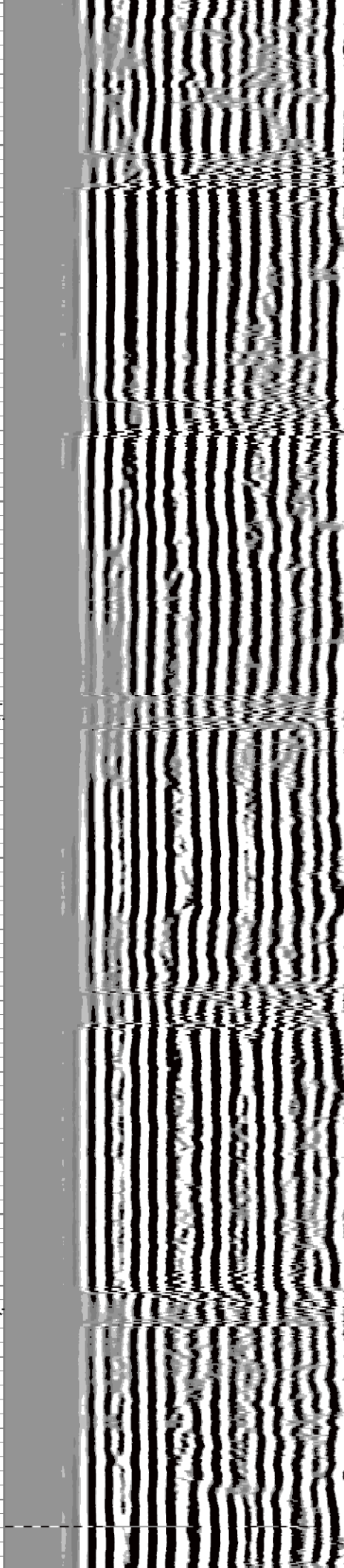
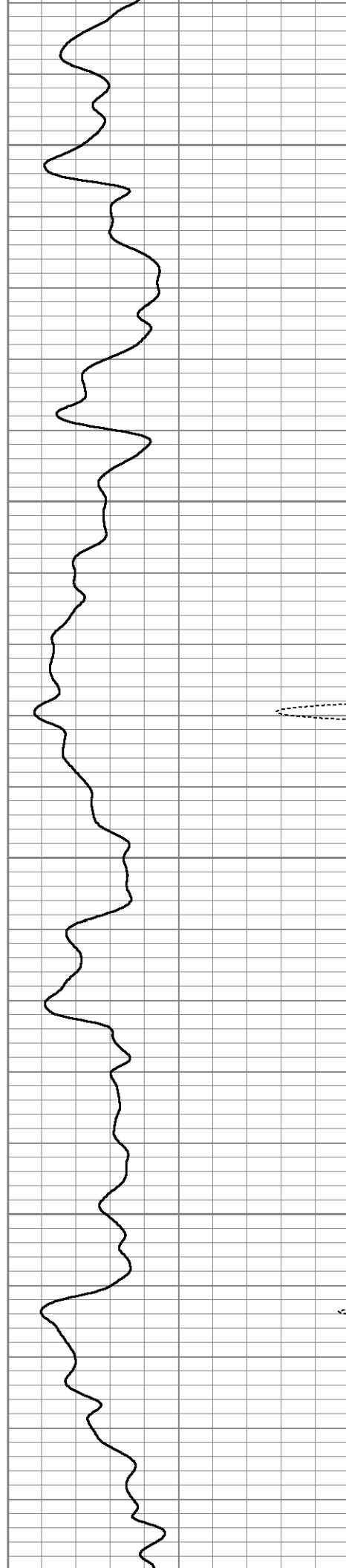
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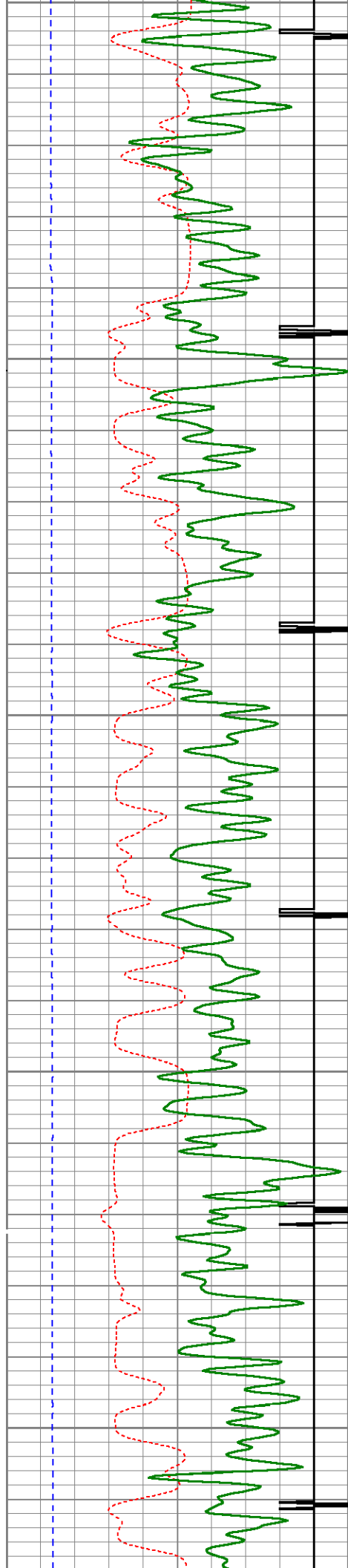
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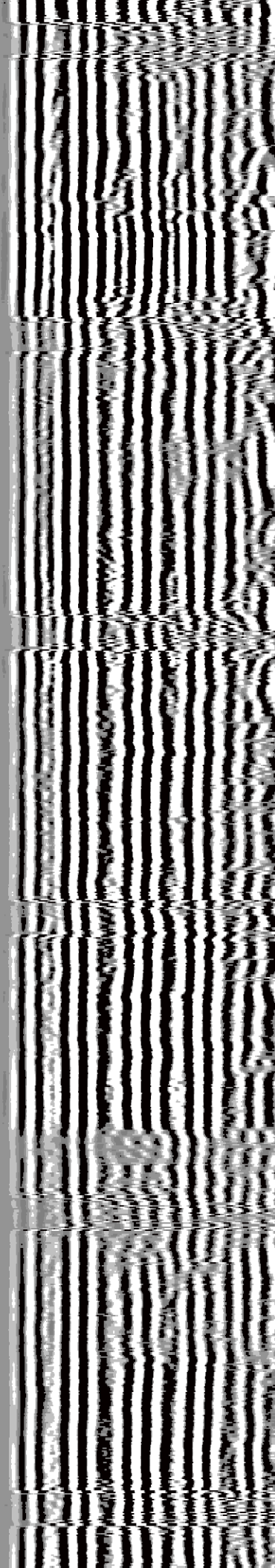
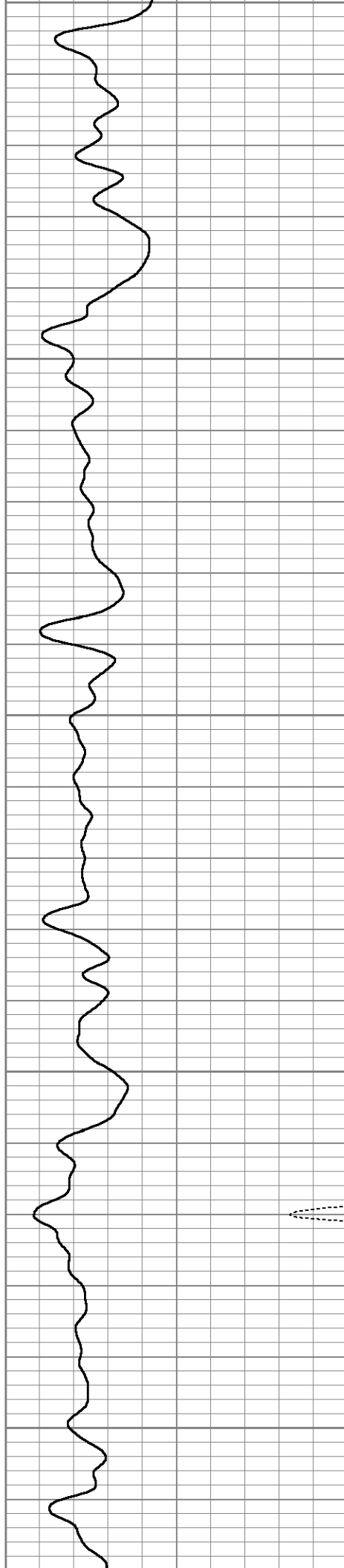
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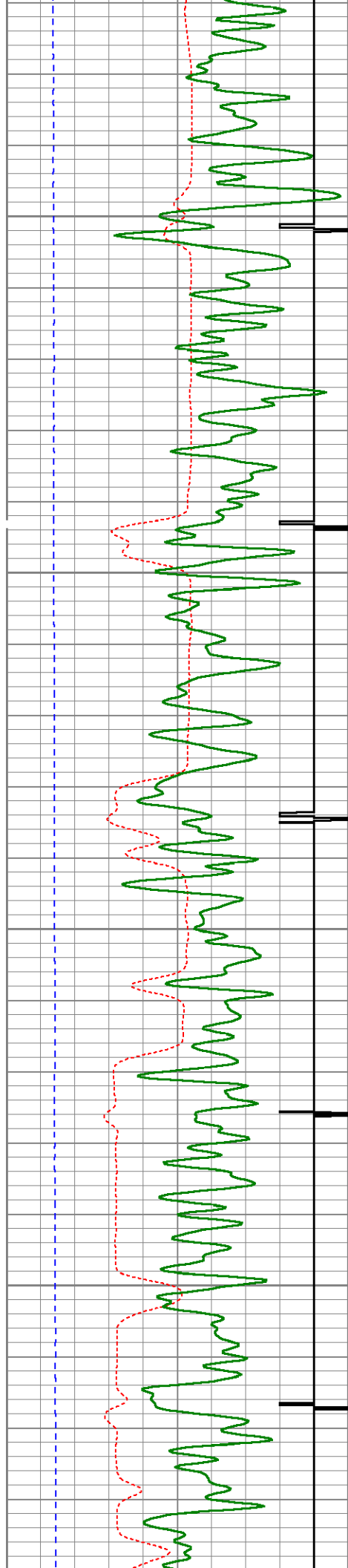
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3700
3750
3800
3850
3900



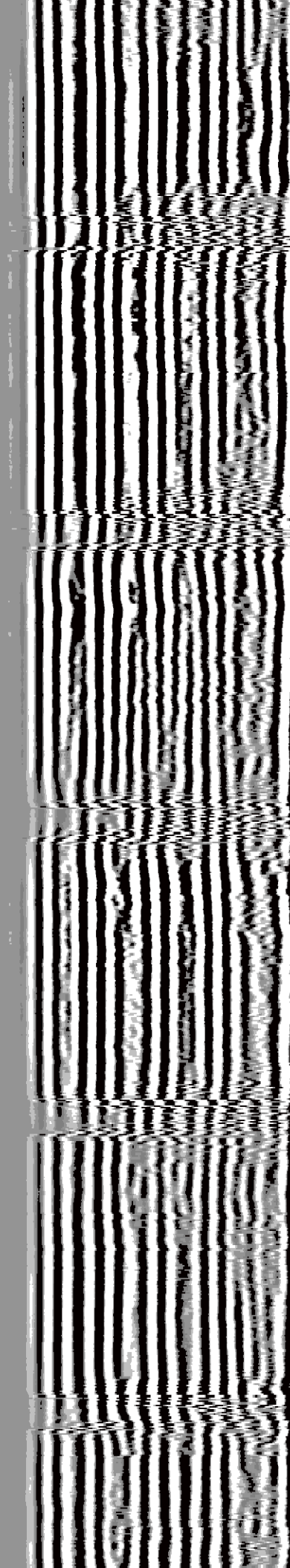
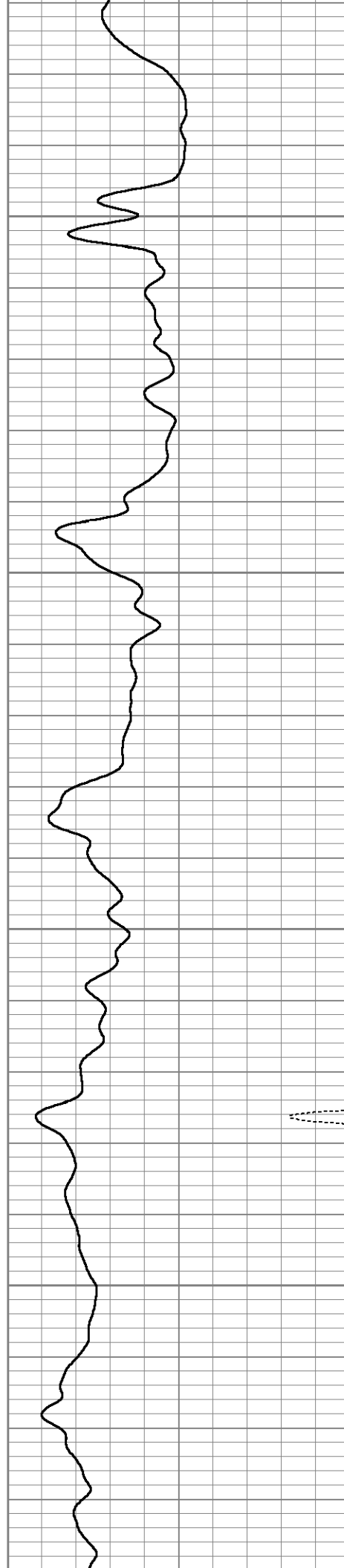


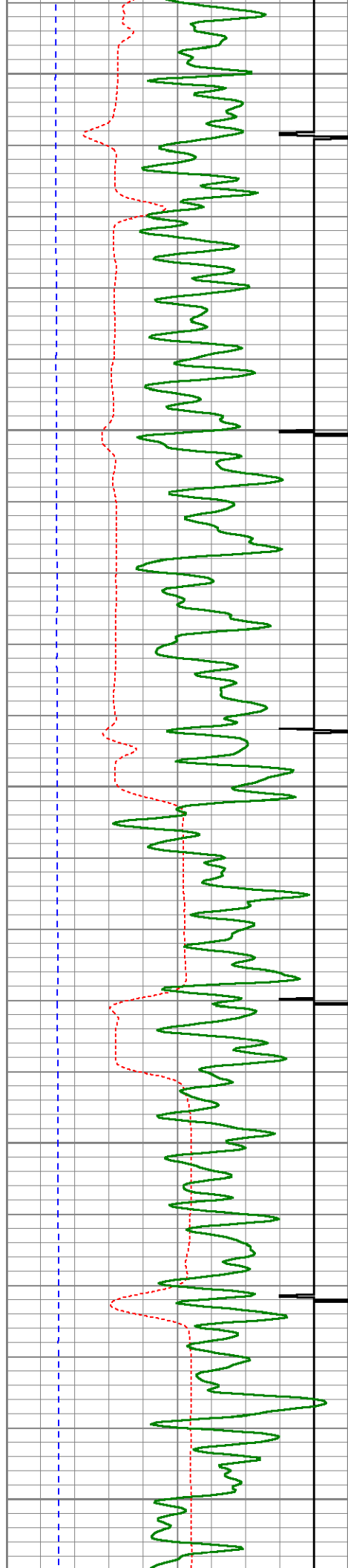
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4100





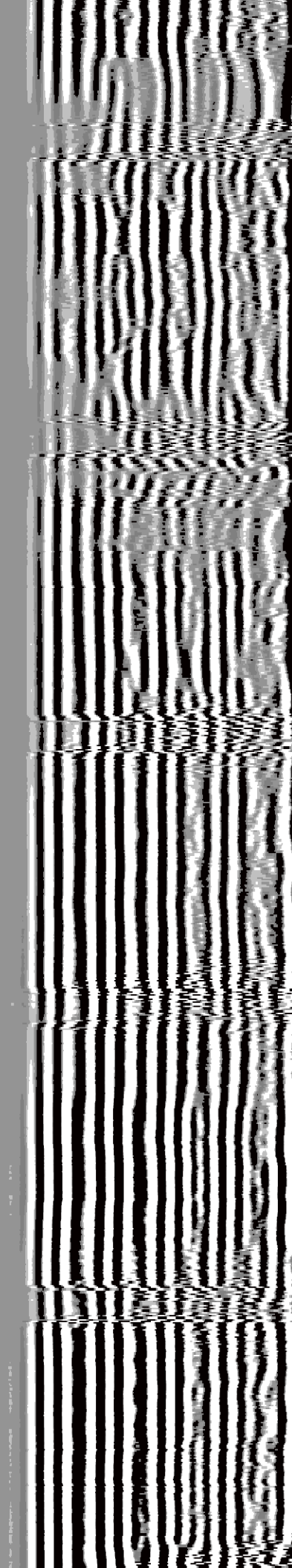
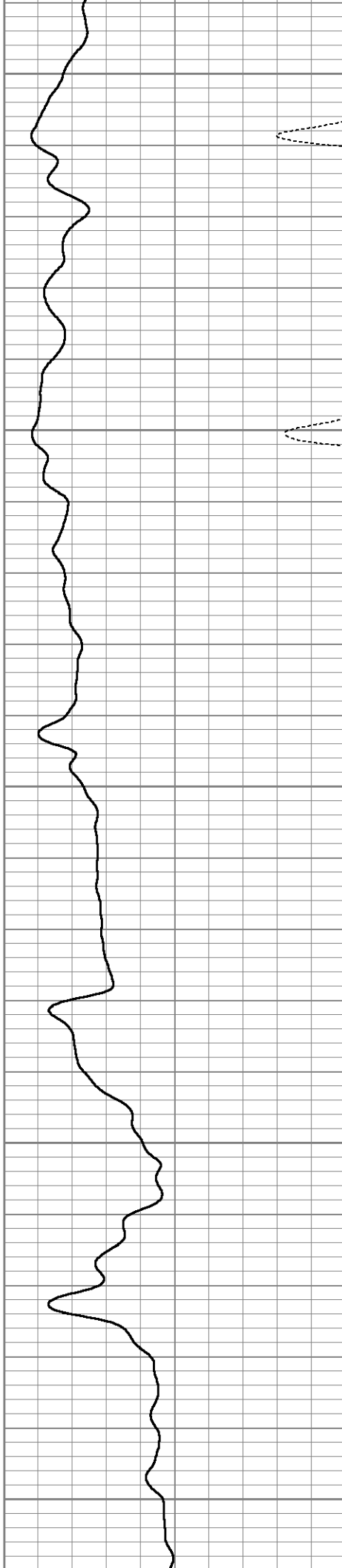
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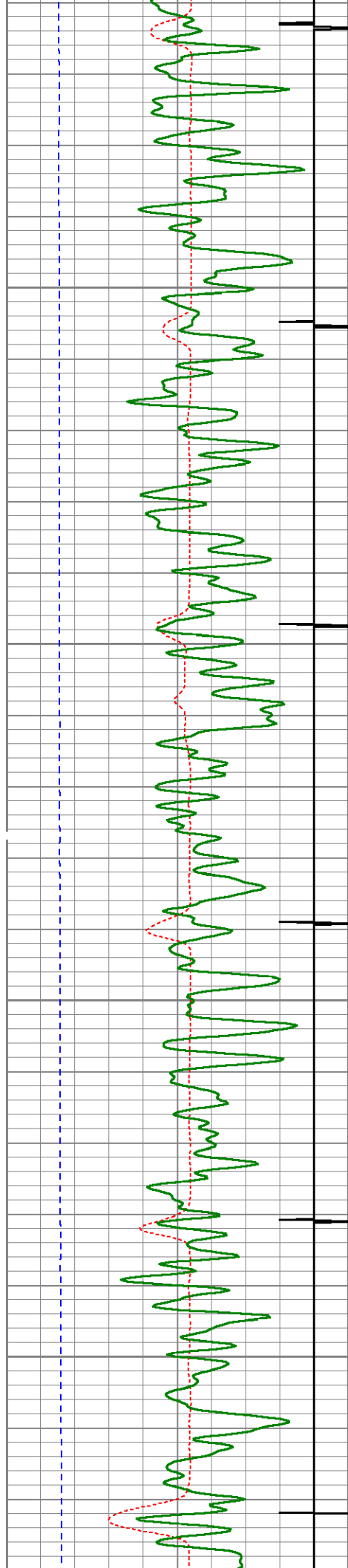
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4250

4300

4350



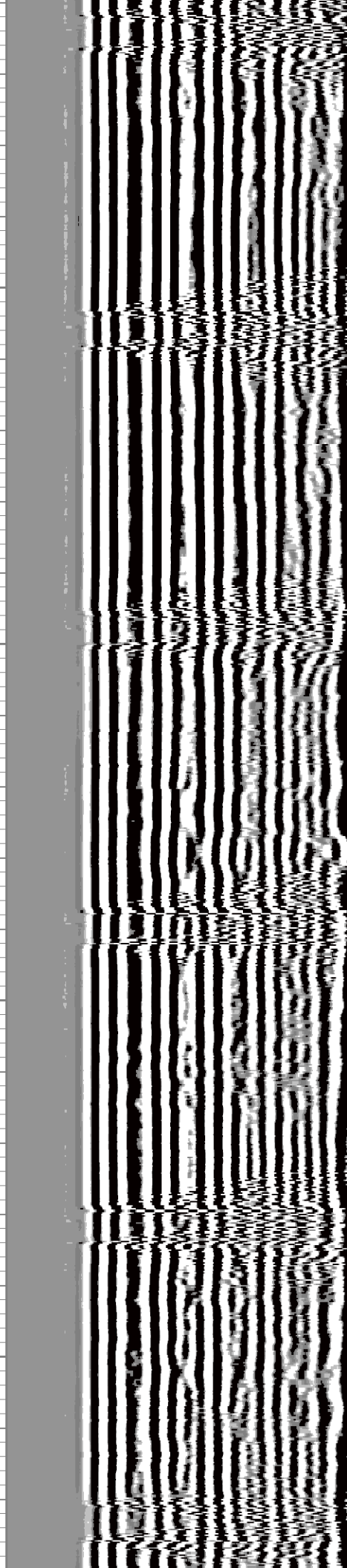
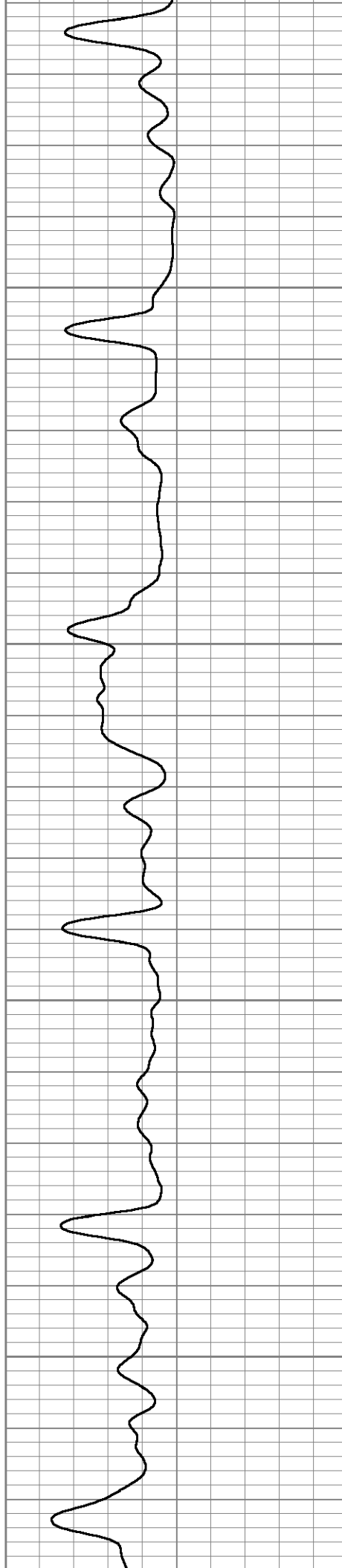


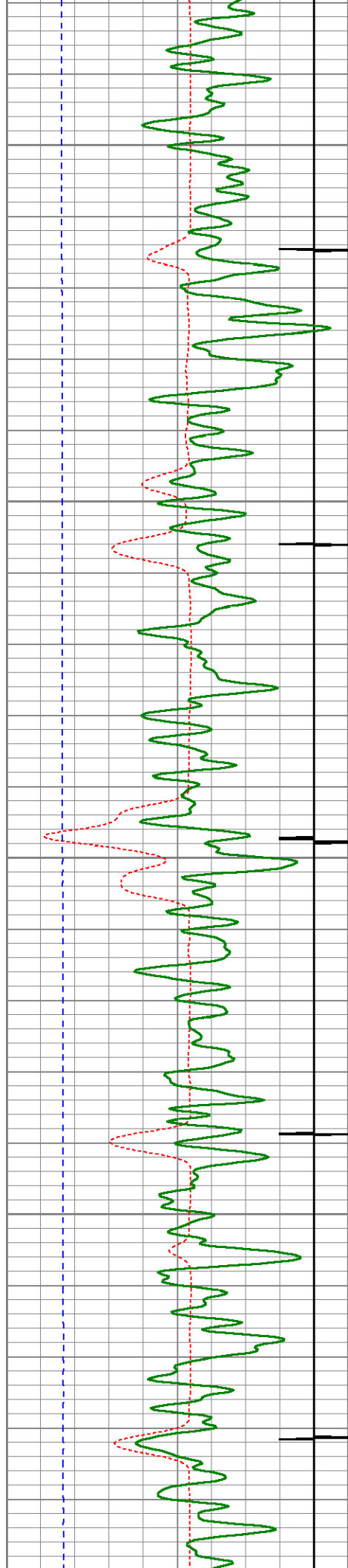
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4550





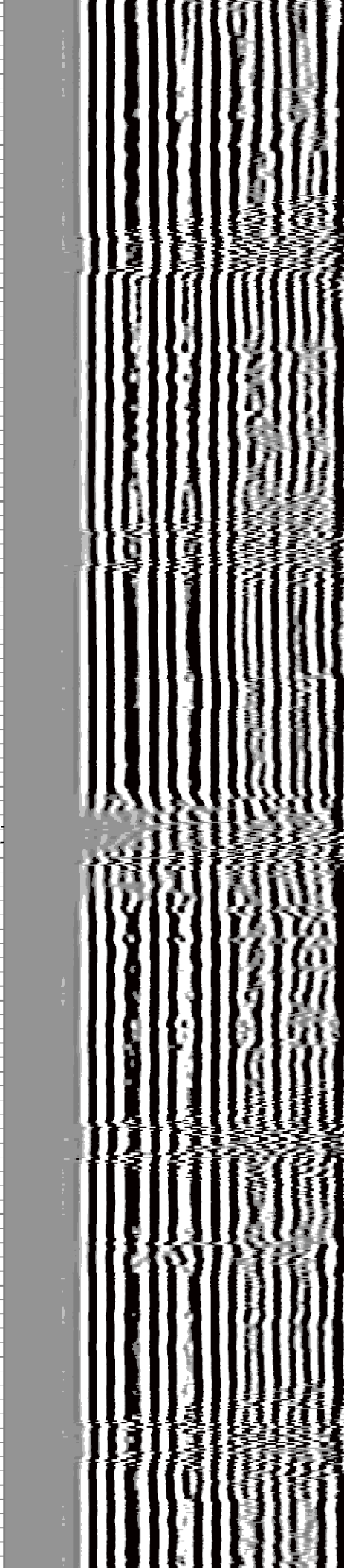
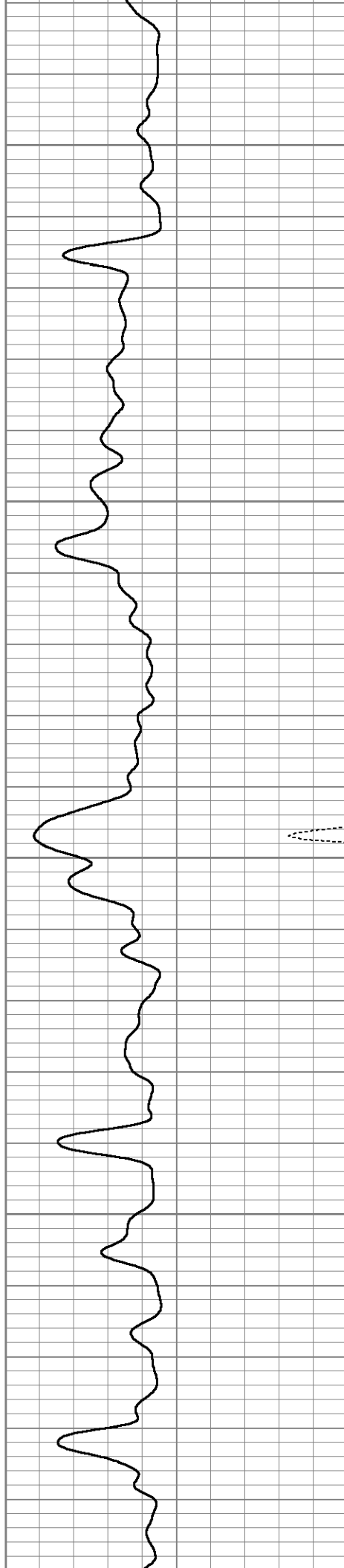
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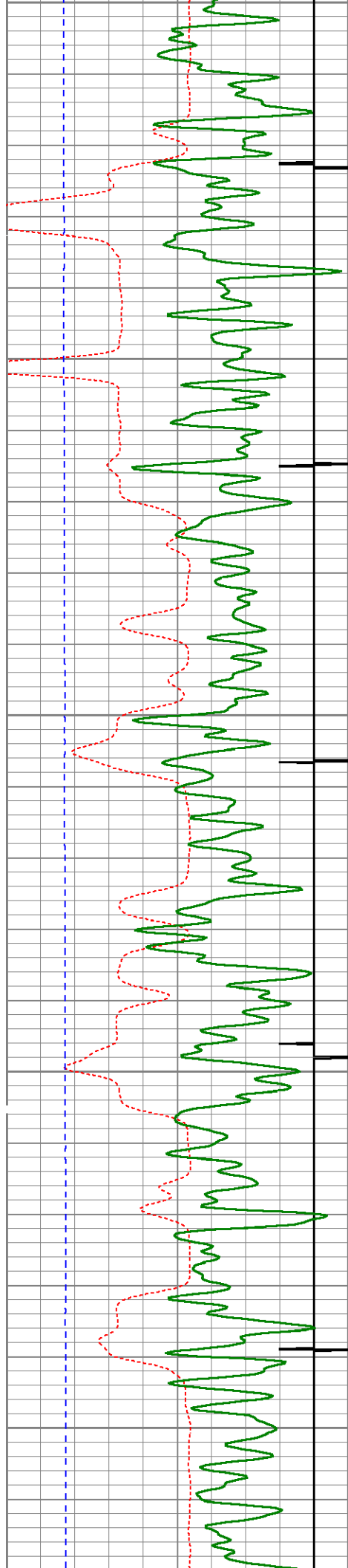
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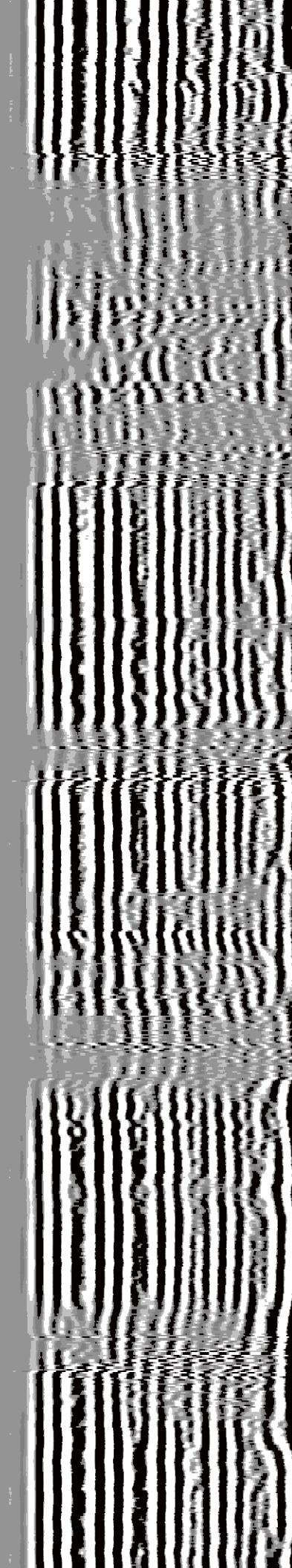
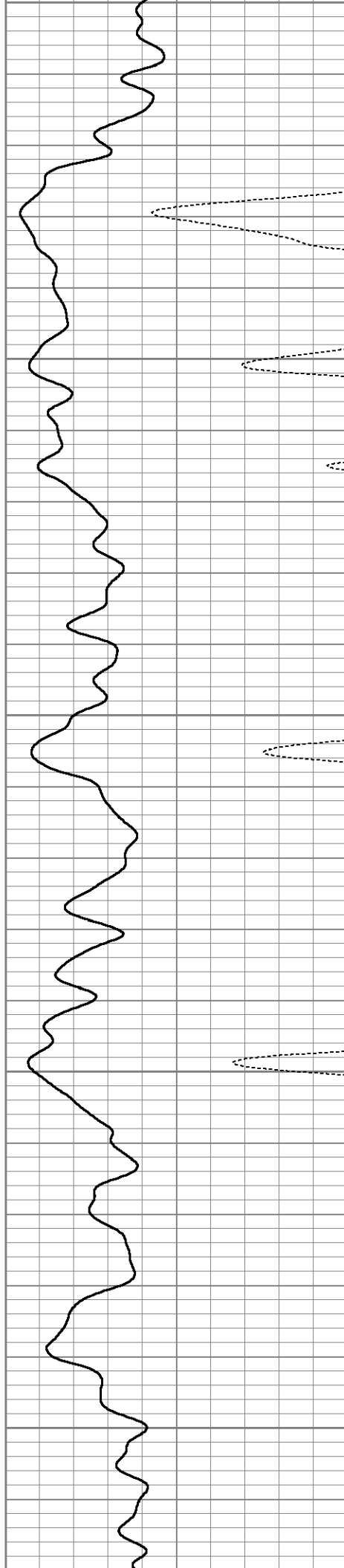
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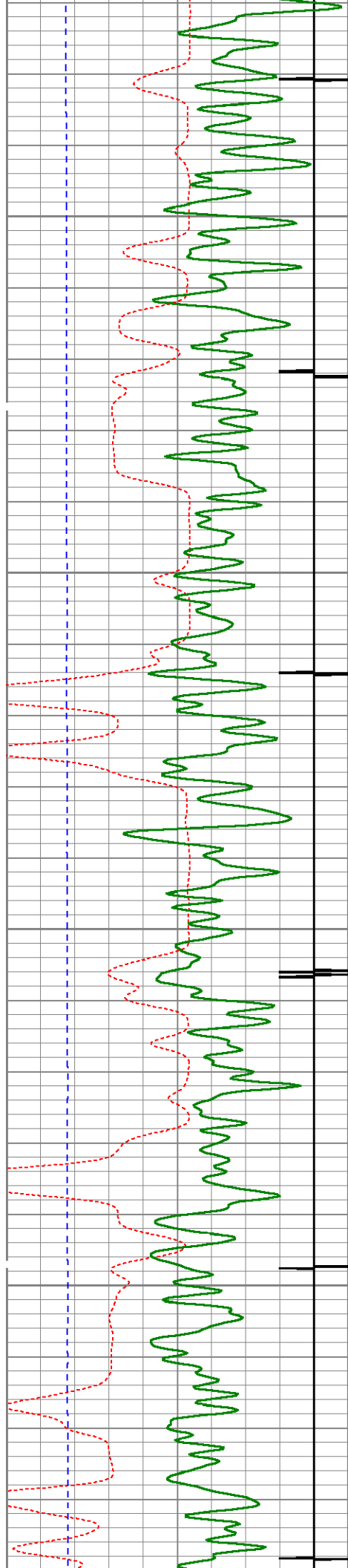
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4800
4850
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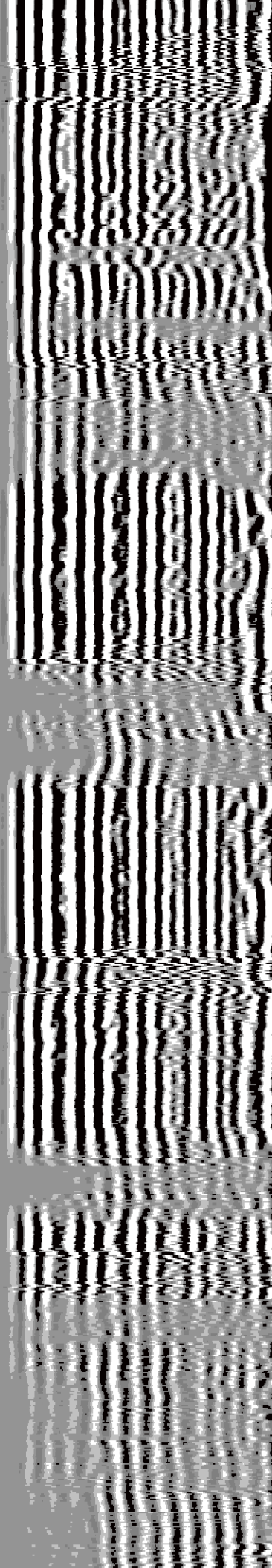
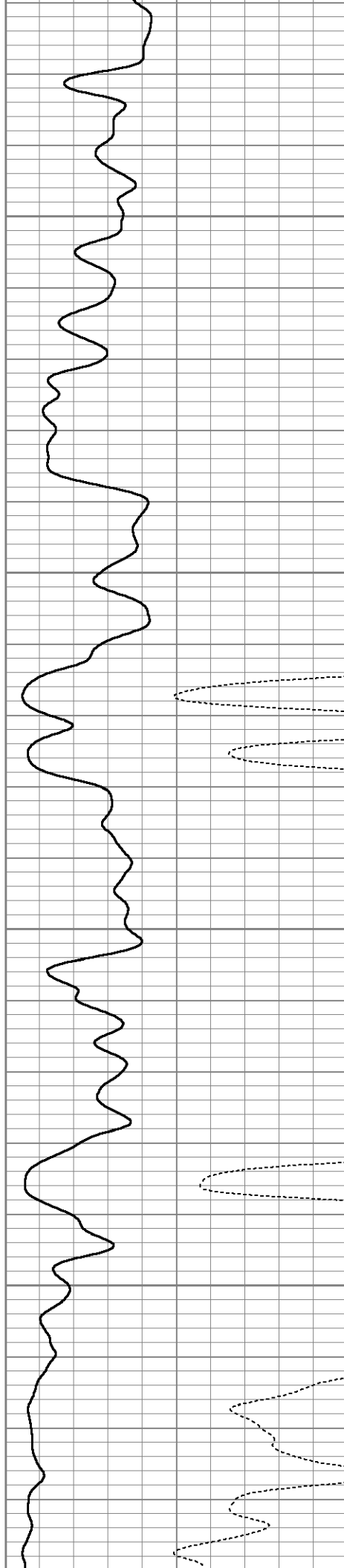


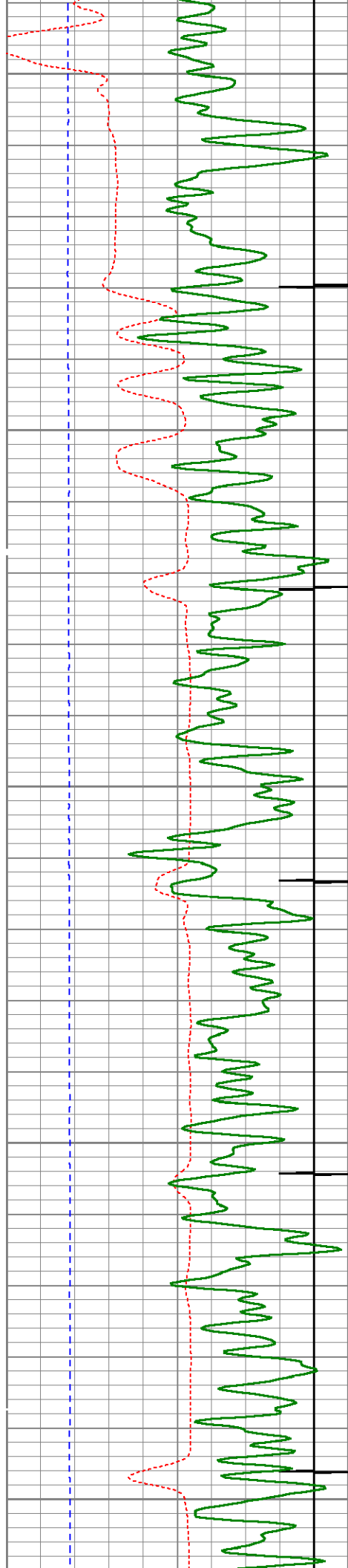
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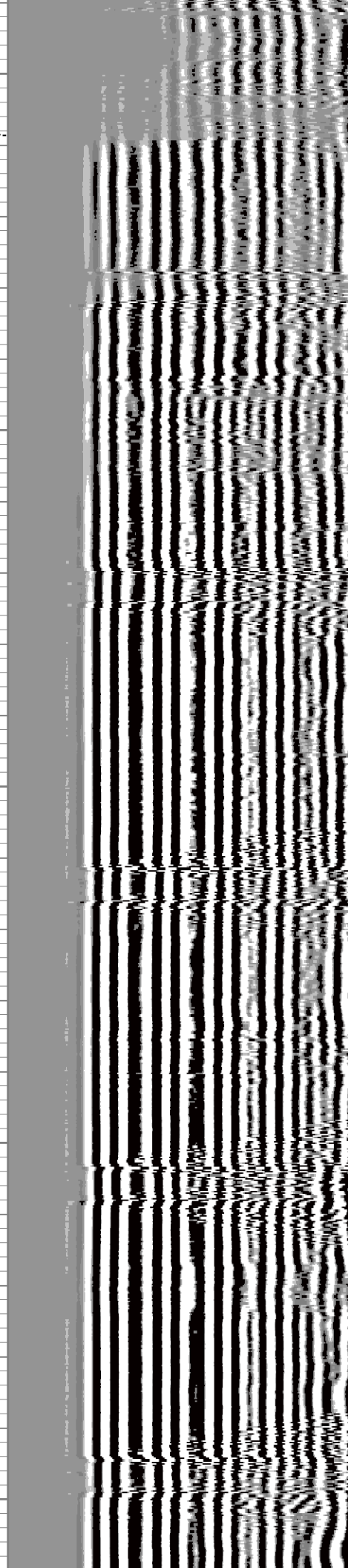
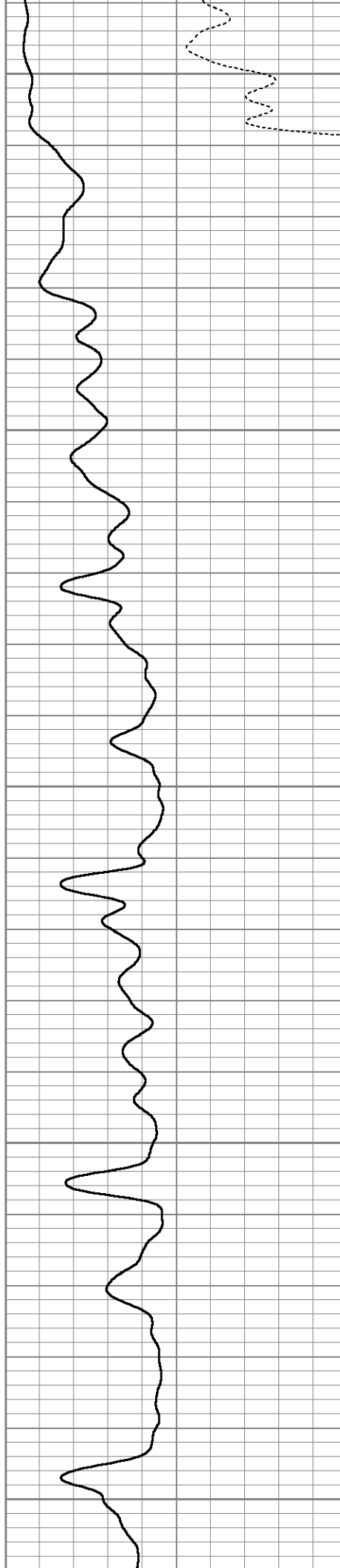
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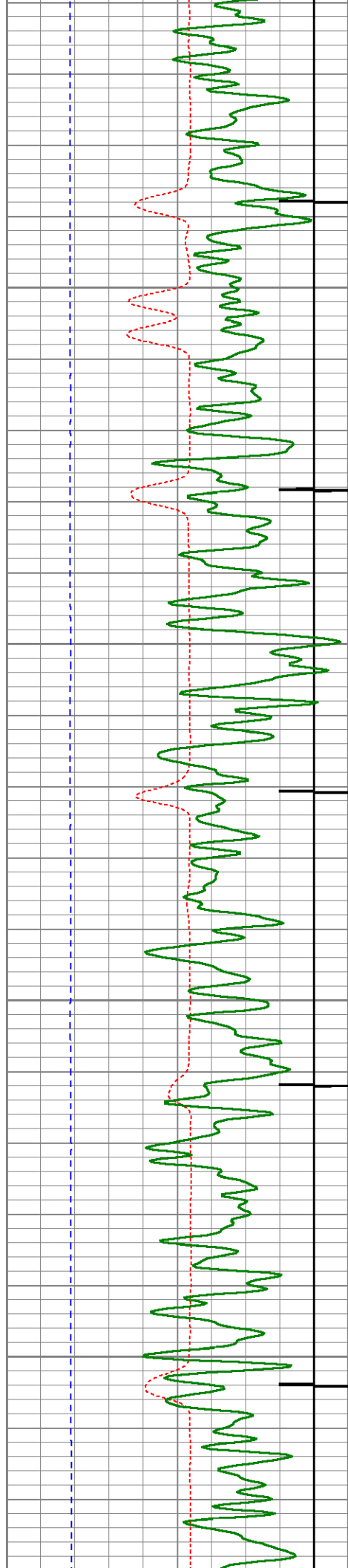
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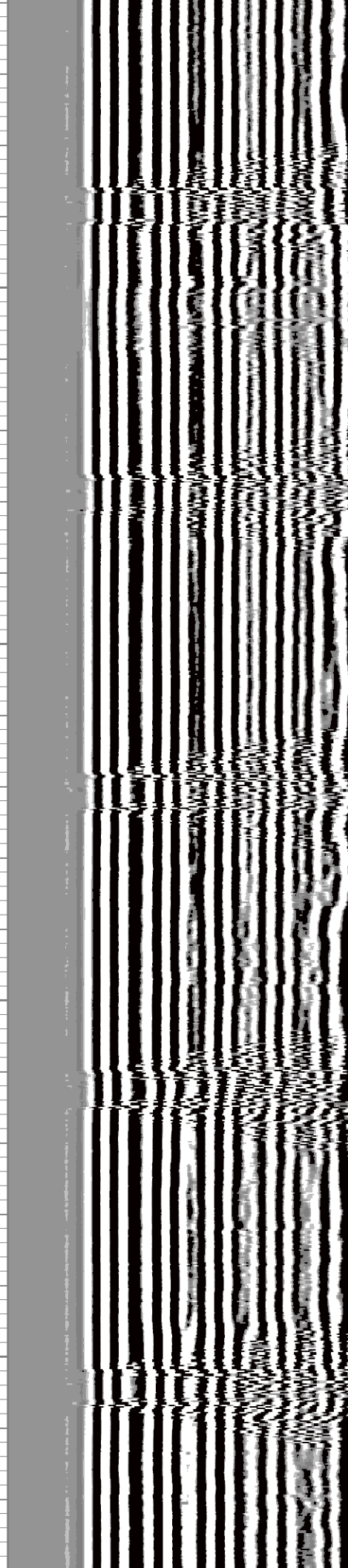
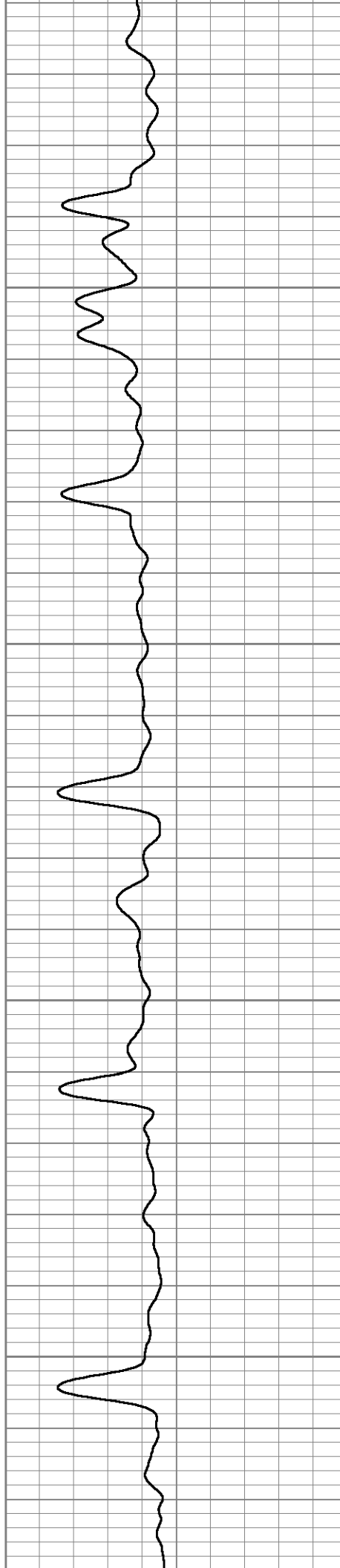


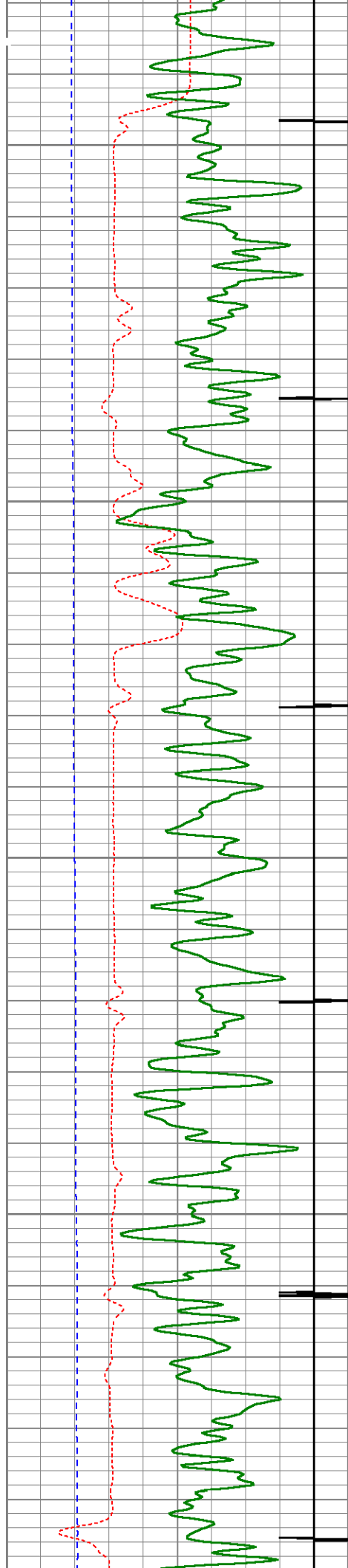
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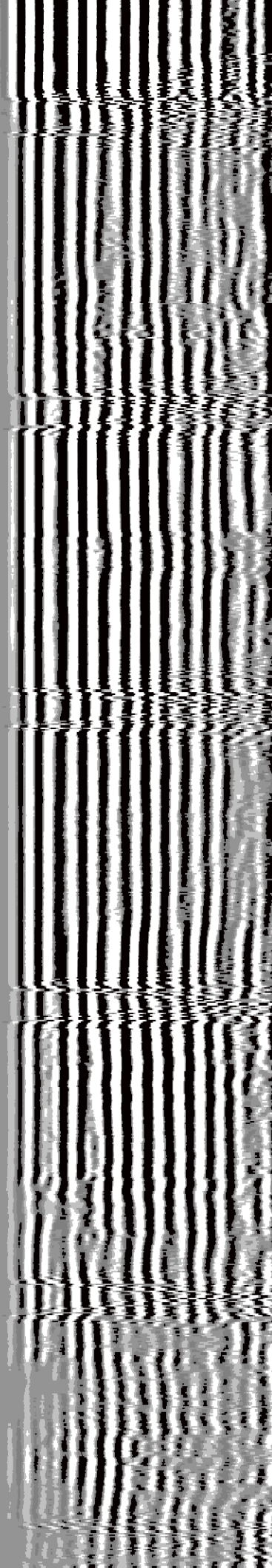
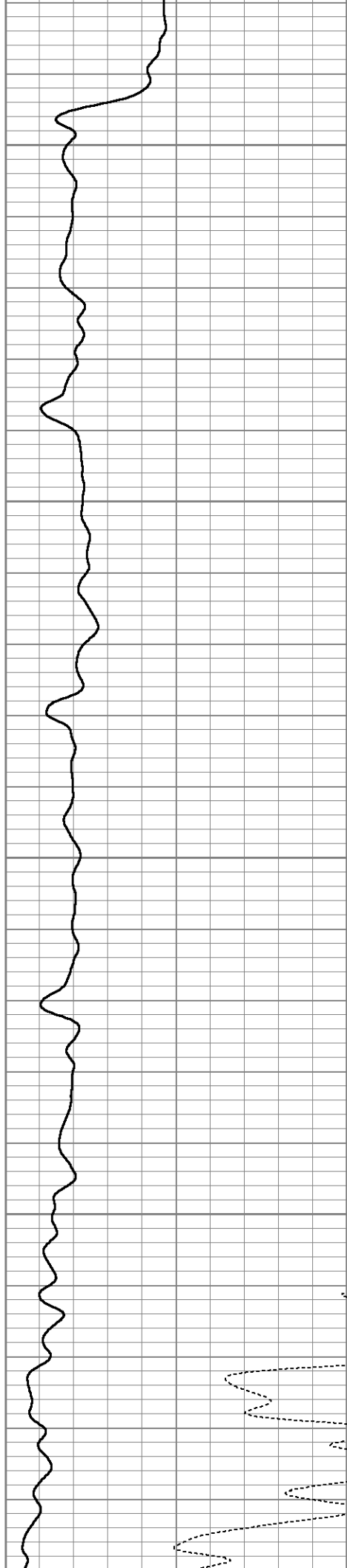
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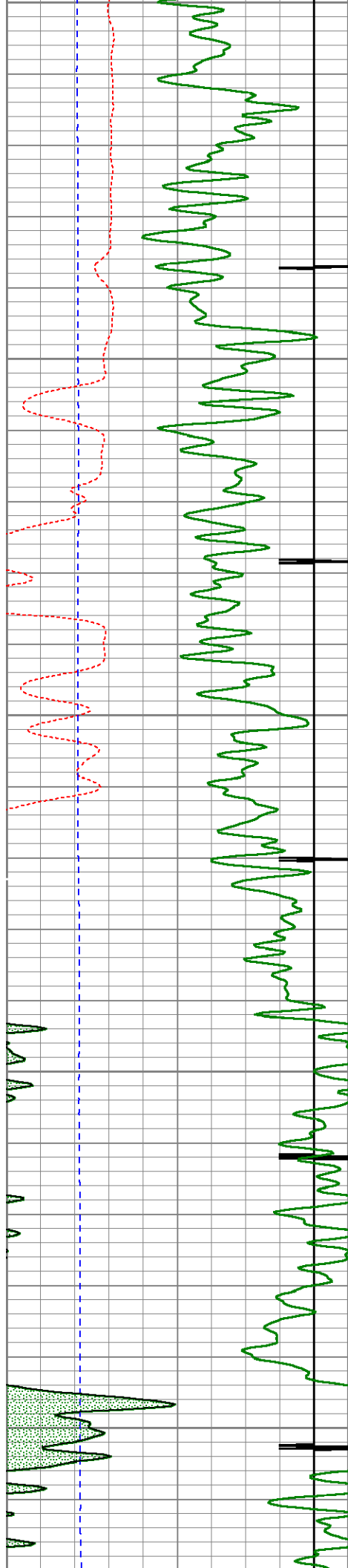
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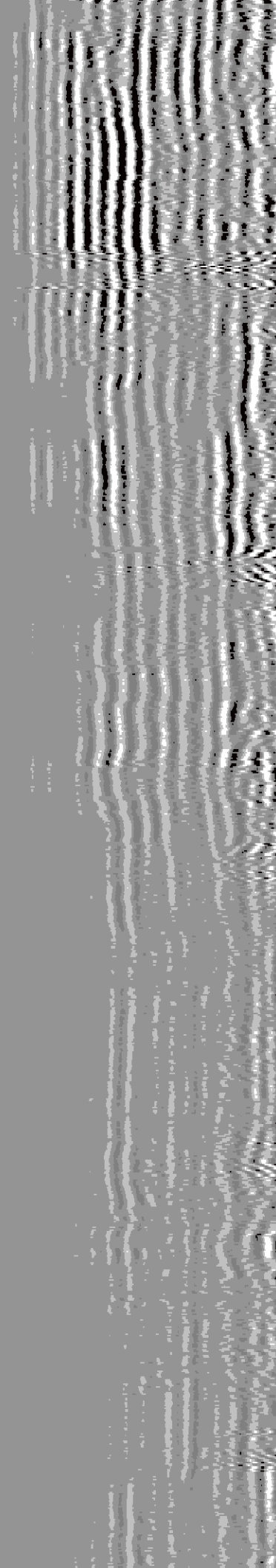
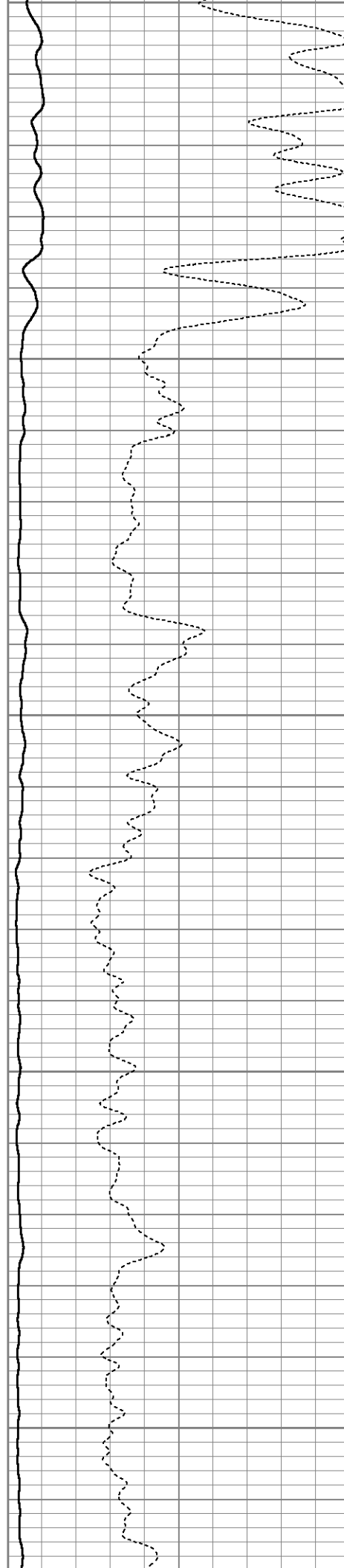
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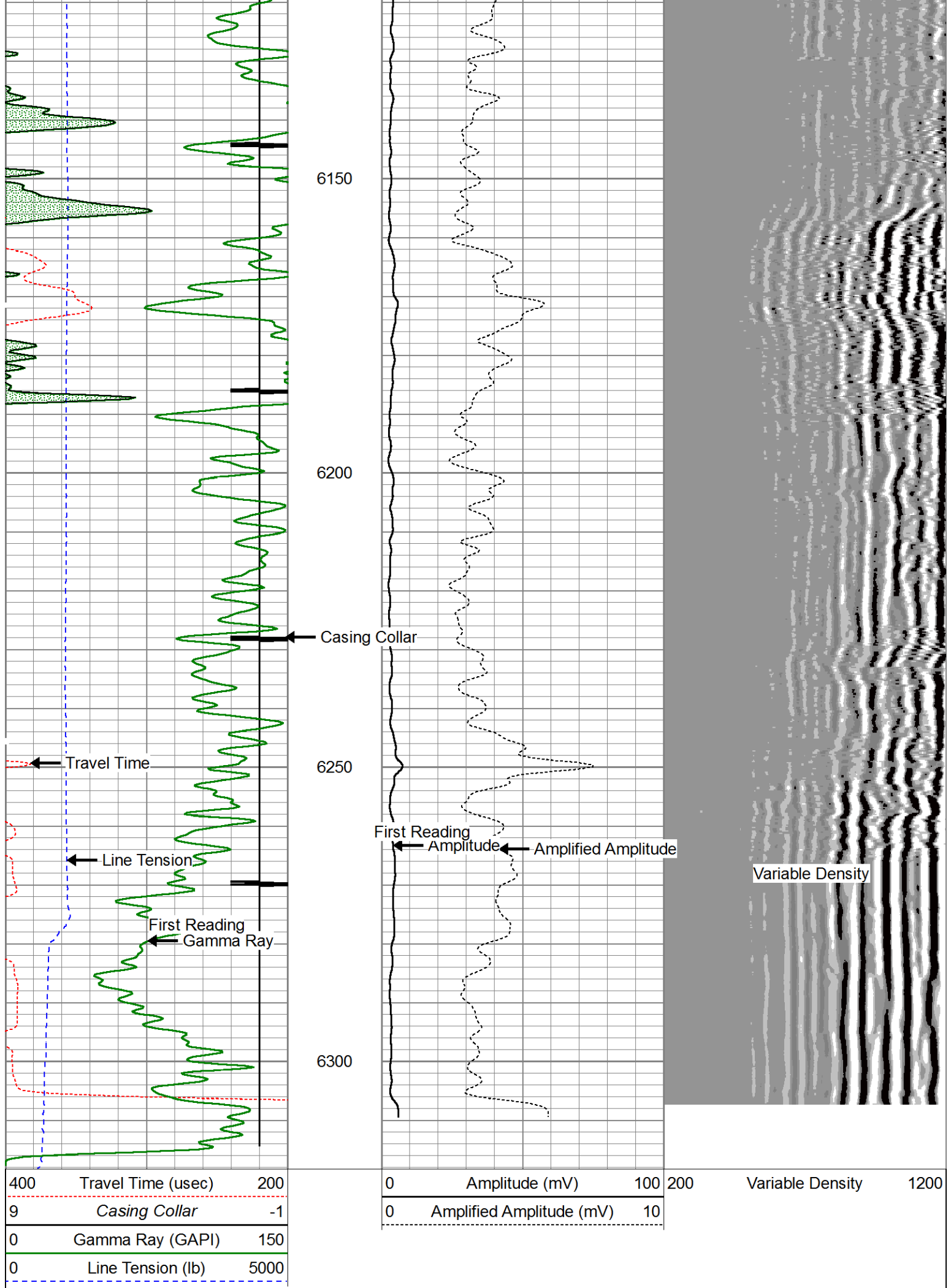
5900





5900
5950
6000
6050
6100





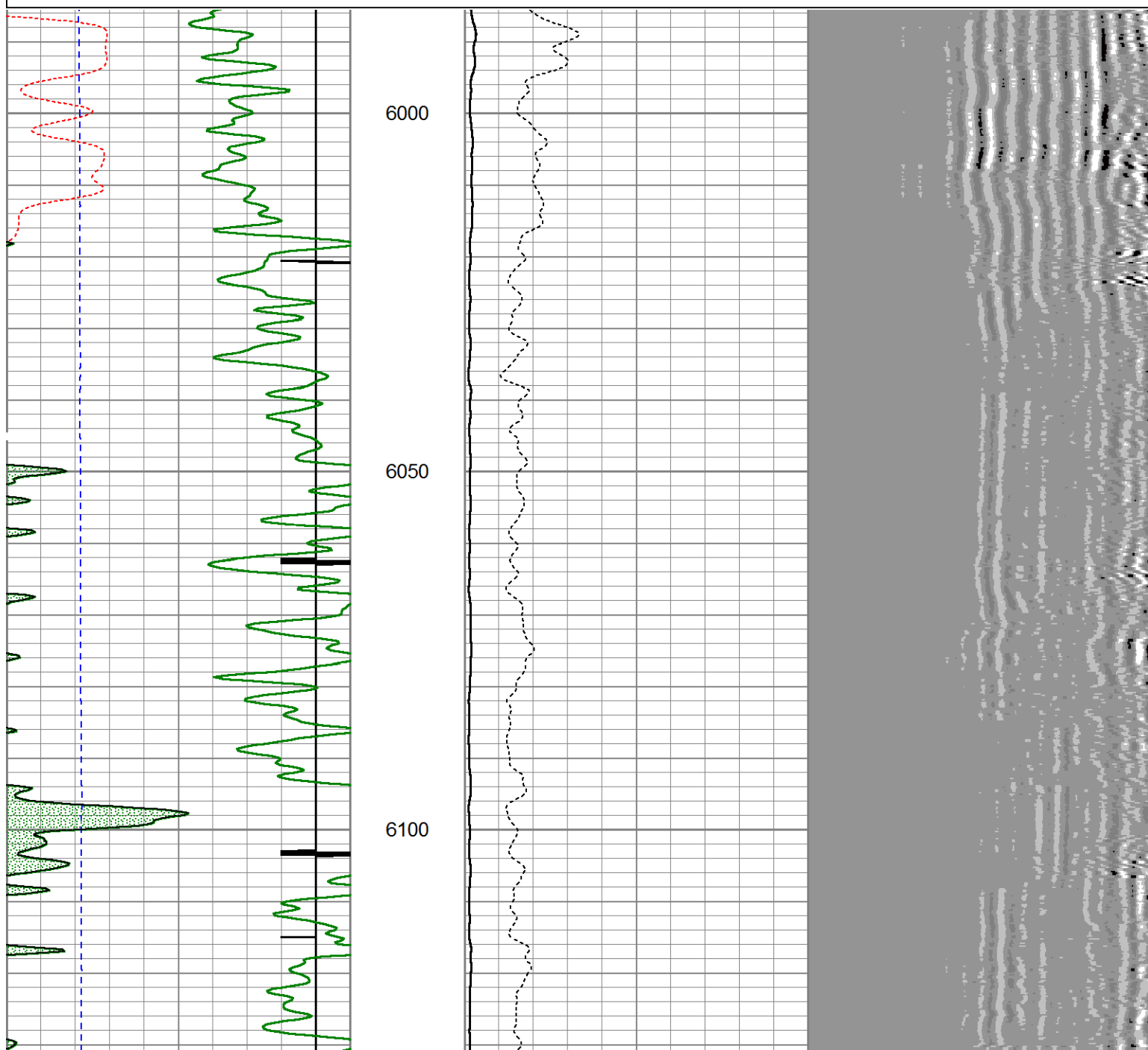


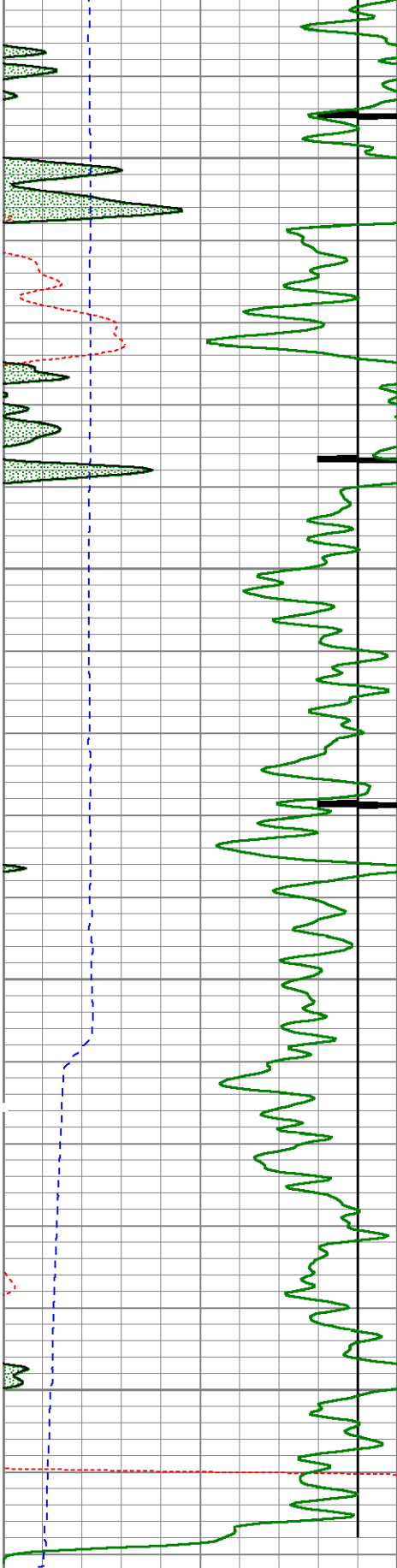
Repeat Pass (0 P.S.I.)

Database File: c:\users\engineers\desktop\bc sates 70 holes\stateseventyholesf11-j14-3hnc_cbl.db
Dataset Pathname: pass2
Presentation Format: cblprobe
Dataset Creation: Sat Apr 19 12:03:44 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	200	Variable Density	1200
0	Amplified Amplitude (mV)	10			





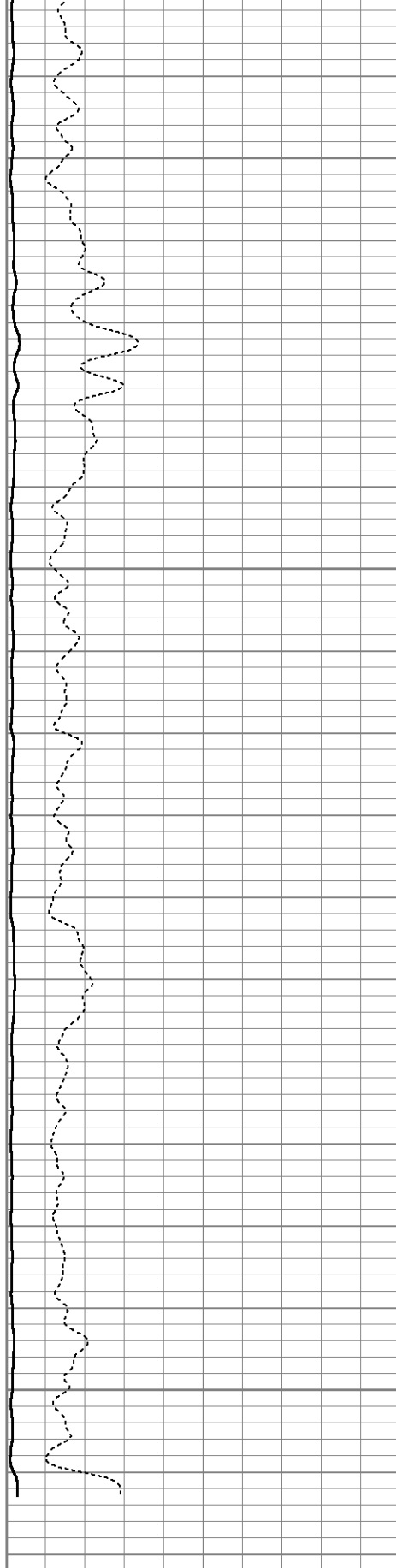
6150

6200

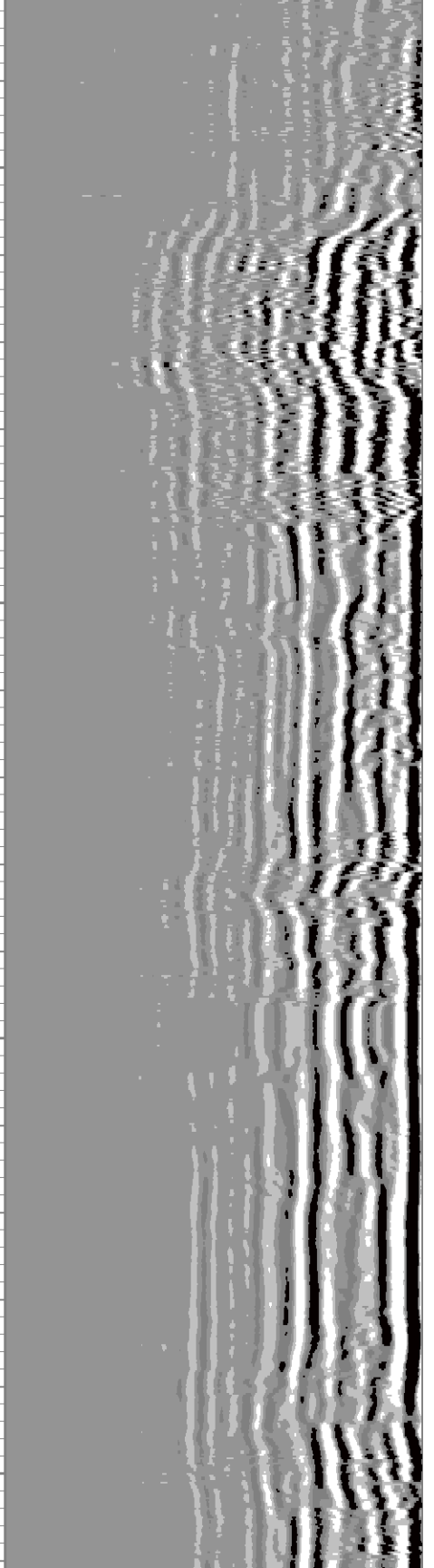
6250

6300

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
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Calibration Report

Database File: C:\Users\Engineers\Desktop\BC sates 70 holes\stateseventyholesf11-j14-3hnc_cbl.db
 Dataset Pathname: pass4.2
 Dataset Creation: Sat Apr 19 13:18:51 2014 by Calc 0

Gamma Ray Calibration Report

Serial Number: 110108-Dig
 Tool Model: Probe275
 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	5.918
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			
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)
			Titan Cable_head	1.00	1.44	10.00
			Probe275 2.75" Centralizer	2.88	2.75	20.00
WV3FT	11.84		RBT-Probe (101224) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFCAL	11.84					
WVFS1	11.84					
WVFS2	11.84					
WVFS3	11.84					
WVFS4	11.84					
WVFS5	11.84					
WVFS6	11.84					
WVFS7	11.84					
WVFS8	11.84					
WV5FT	10.84					
			Probe275 2.75" Centralizer	2.88	2.75	20.00

