



CEMENT BOND  
VARIABLE DENSITY LOG  
W/ GAMMA RAY/ CCL

Company		Bonanza Creek Energy	
Well		State Seventy Holes O-K-6HNB	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API # : 05-123-37928	
SEC 6 TWP 54N RGE 62 W		Other Services	
Permanent Datum		Ground Level	
Log Measured From		Elevation	
Drilling Measured From		K.B. 4542.5'	
		D.F. 4541.5'	
		G.L. 4530'	
Date		October 5th, 2013	
Run Number		ONE	
Depth Driller		11153'	
Depth Logger		6588'	
Bottom Logged Interval		6575'	
Top Log Interval		Surface	
Open Hole Size		8.75	
Type Fluid		WATER	
Density / Viscosity		8.33	
Max. Recorded Temp.		N/A	
Estimated Cement Top		766'	
Time Well Ready		1230	
Time Logger on Bottom		1300	
Equipment Number		12029CH	
Location		BRIGHTON	
Recorded By		R.Grisson	
Witnessed By		Kurt Dodge	
Borehole Record		Tubing Record	
Run Number		Bit	
ONE		13.5"	
TWO		8.75"	
THREE		6.125"	
Casing Record		Size	
Surface String		9.625"	
Prot. String		7"	
Production String		4.5"	
Liner		Short Joint	

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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

Main Pass and Repeat Pass logged at Zero PSI

Main Pass logged from 12.5' KB

Your Crew for Today: T.Canfarelli, M.Bingham

Thank You for using Allied Wireline

303.659.4609



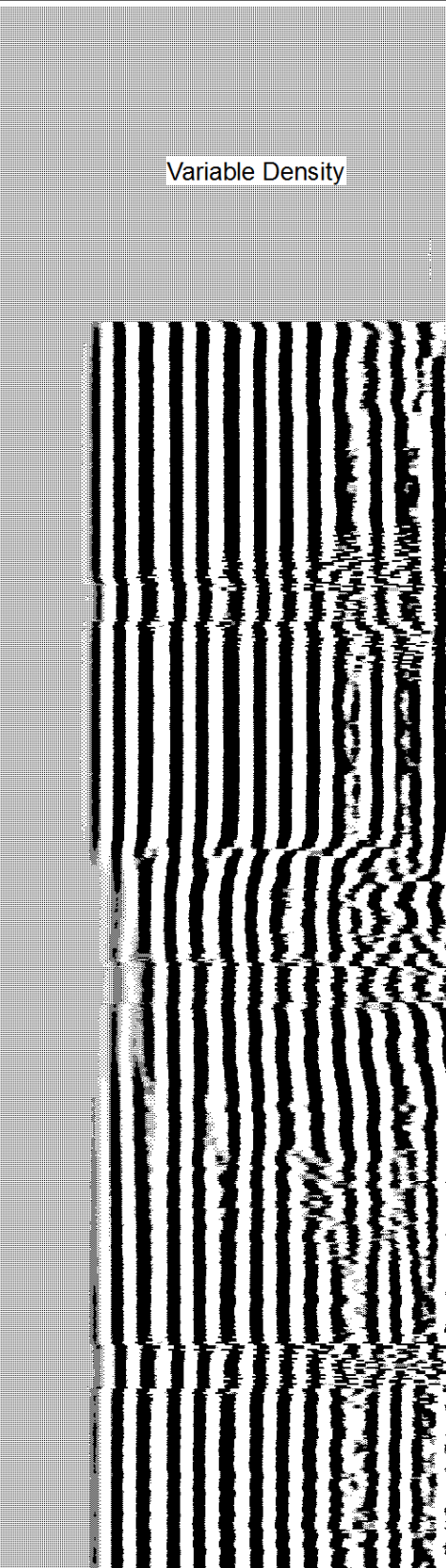
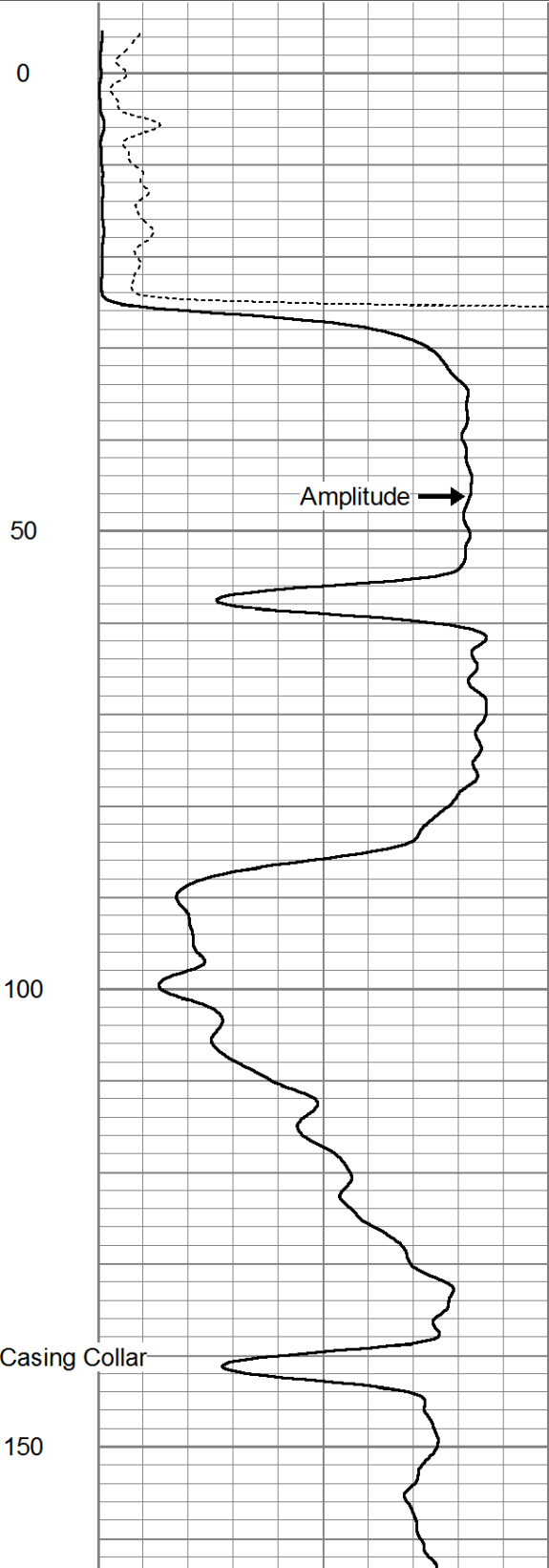
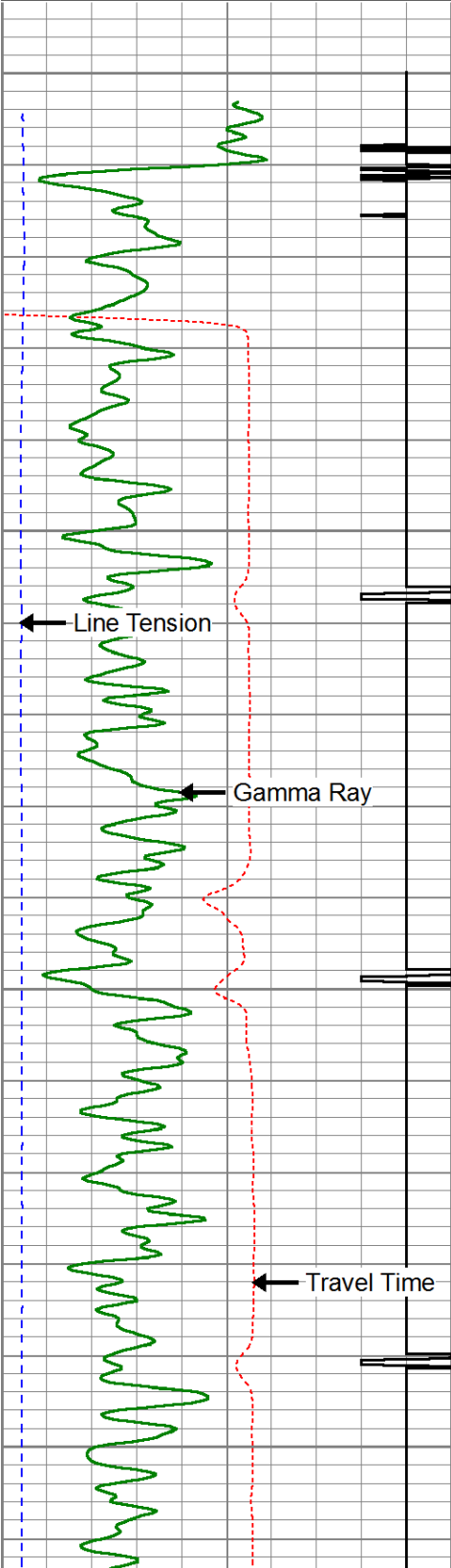
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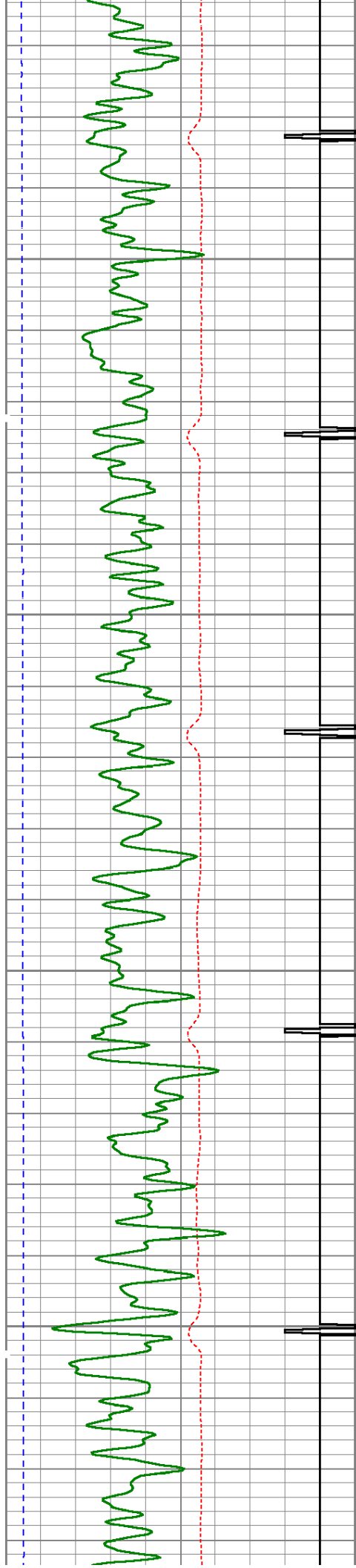
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Dataset Pathname: pass5.1  
Presentation Format: cblprobe  
Dataset Creation: Sat Oct 05 14:26:21 2013 by Calc SCH 120126  
Charted by: Depth in Feet scaled 1:240

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



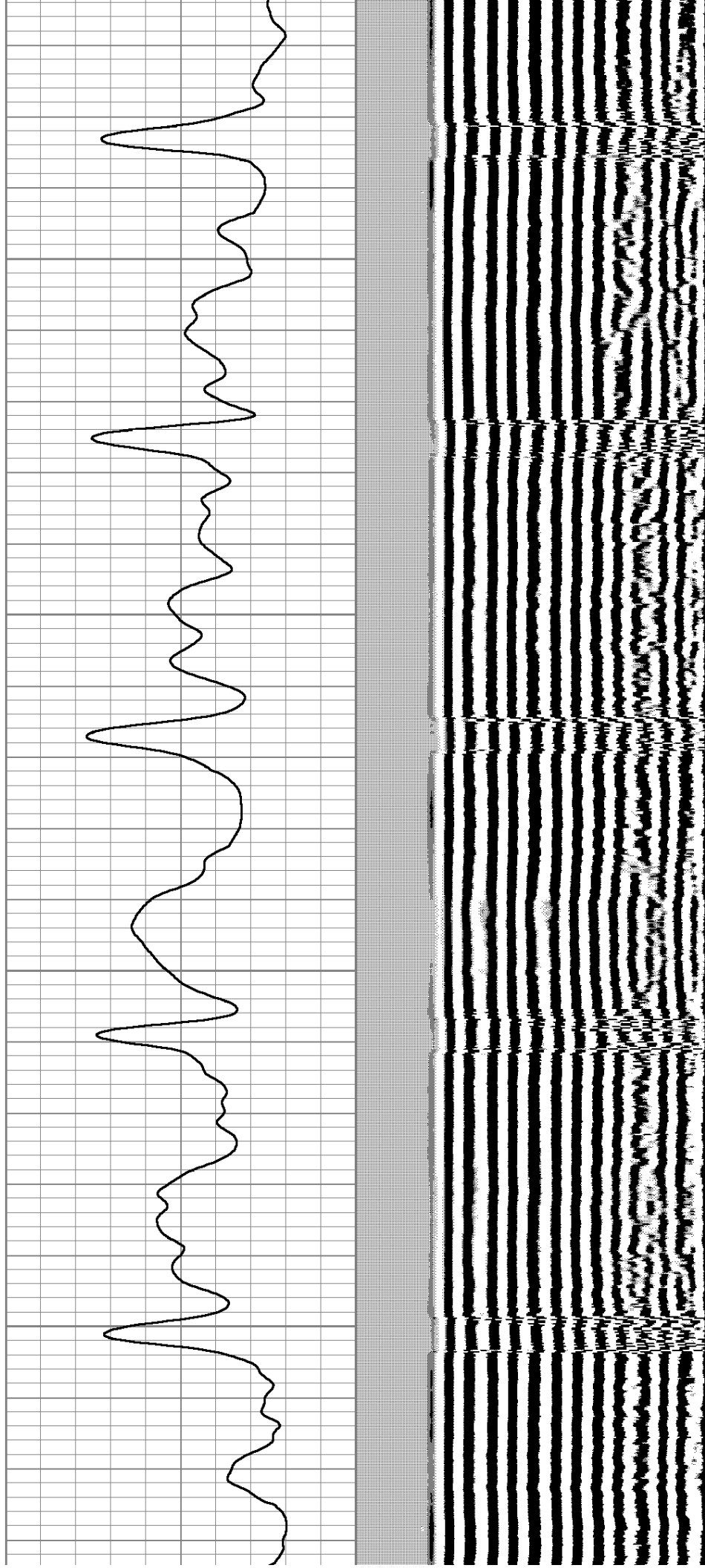


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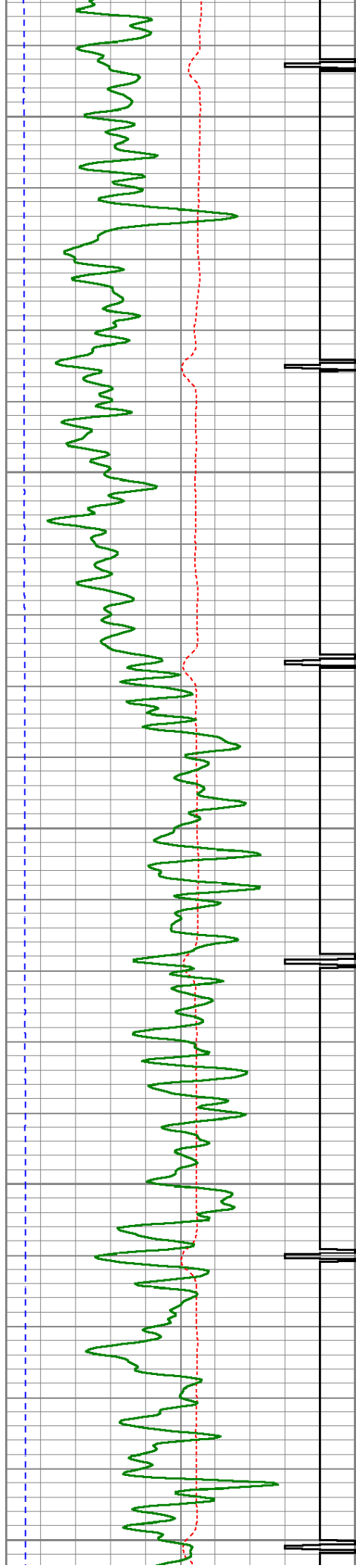
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300

350







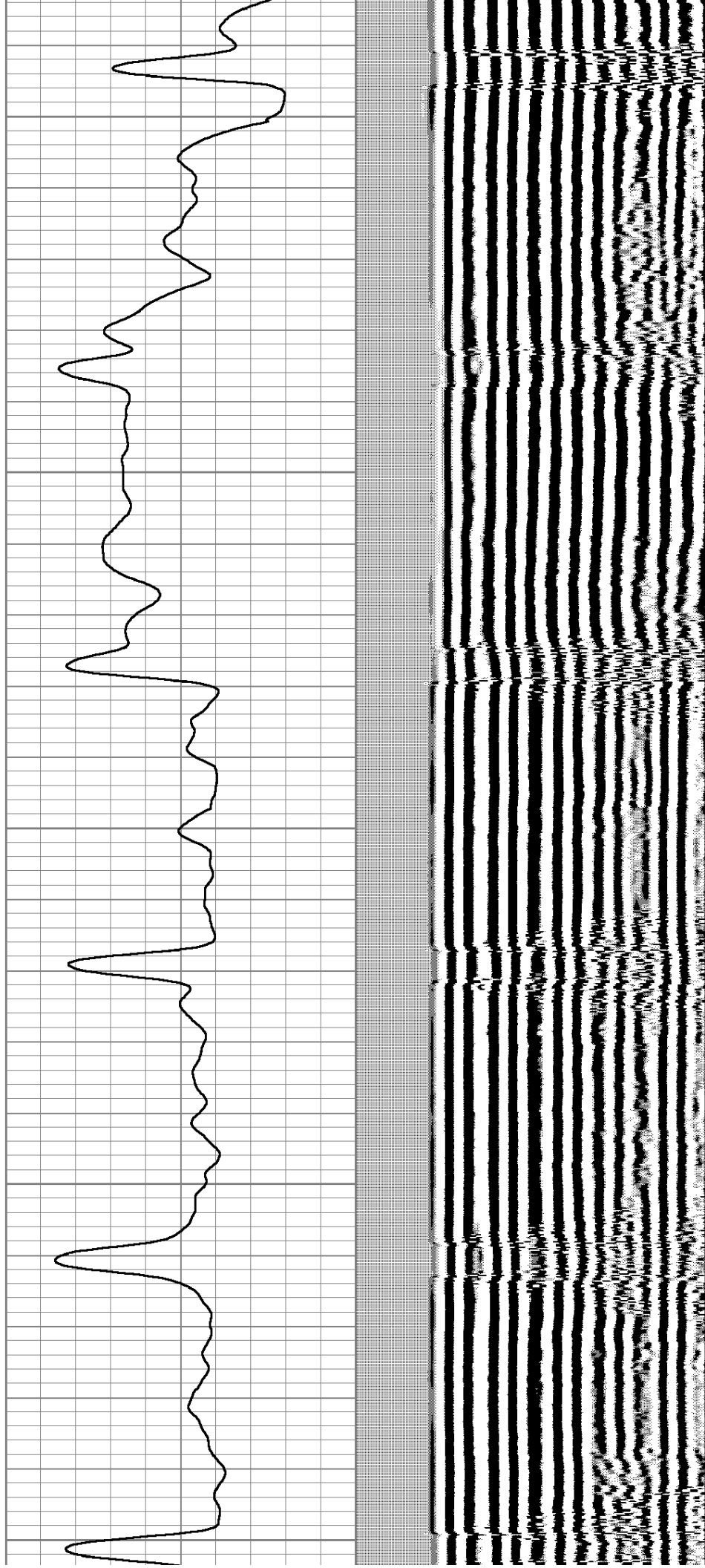
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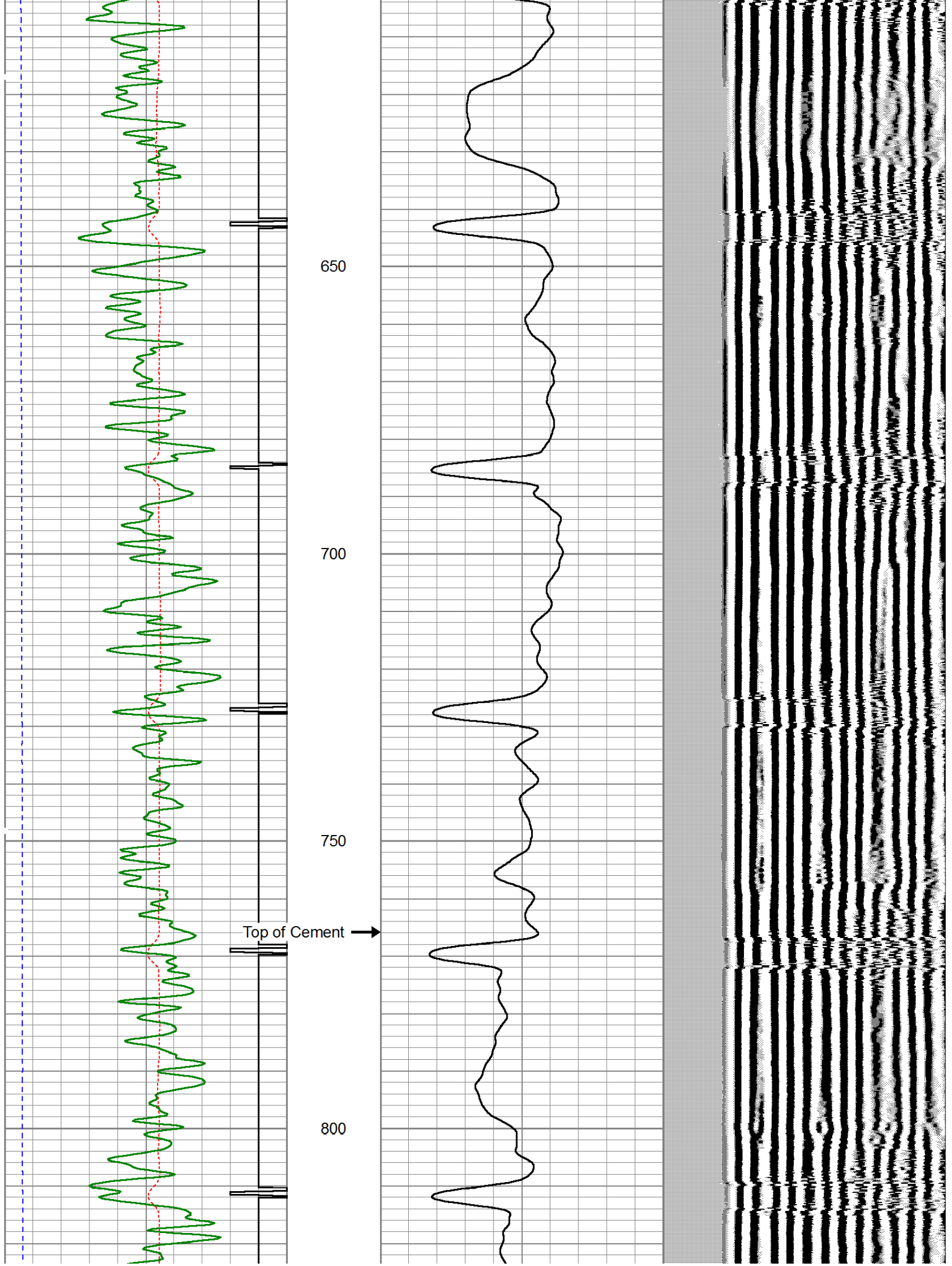
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500

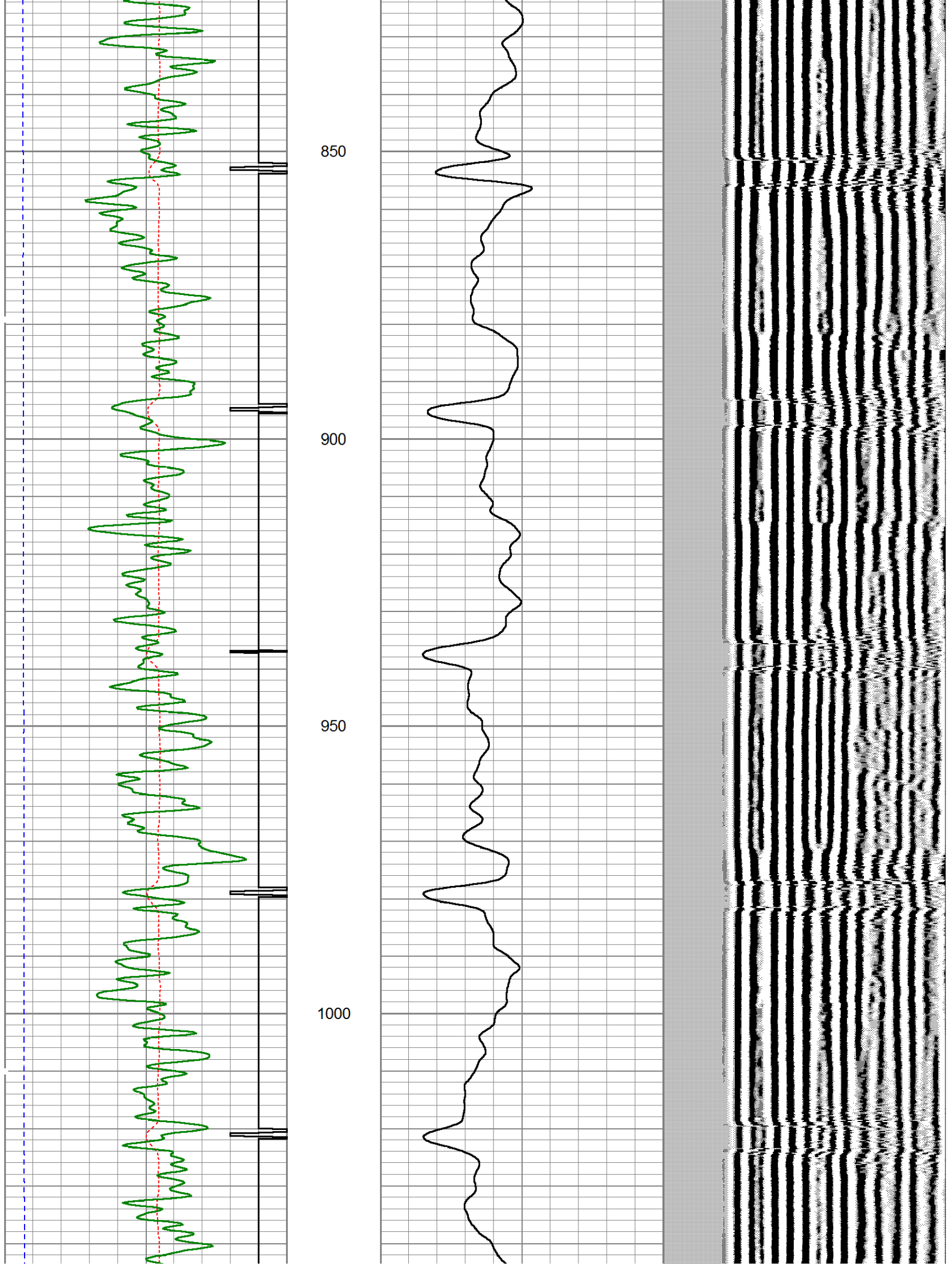
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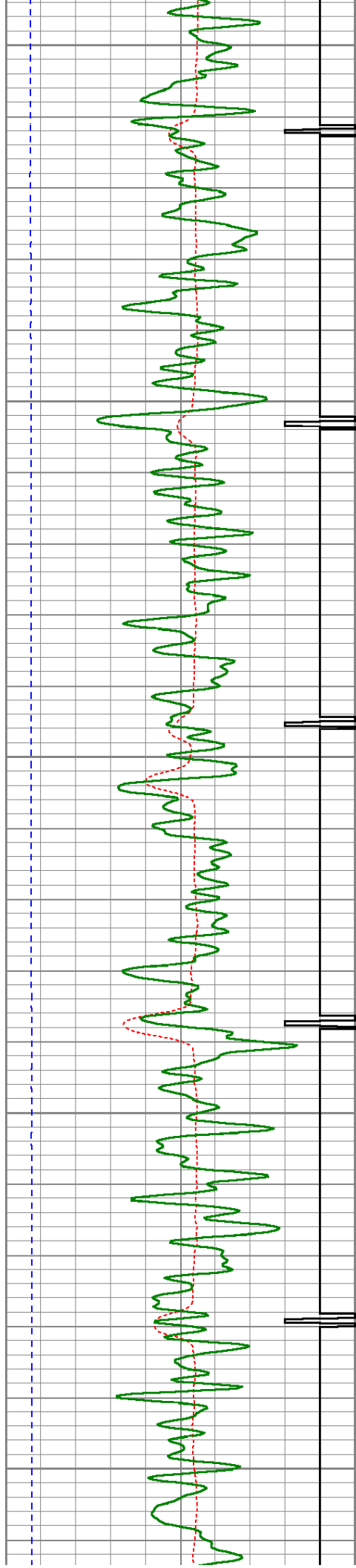
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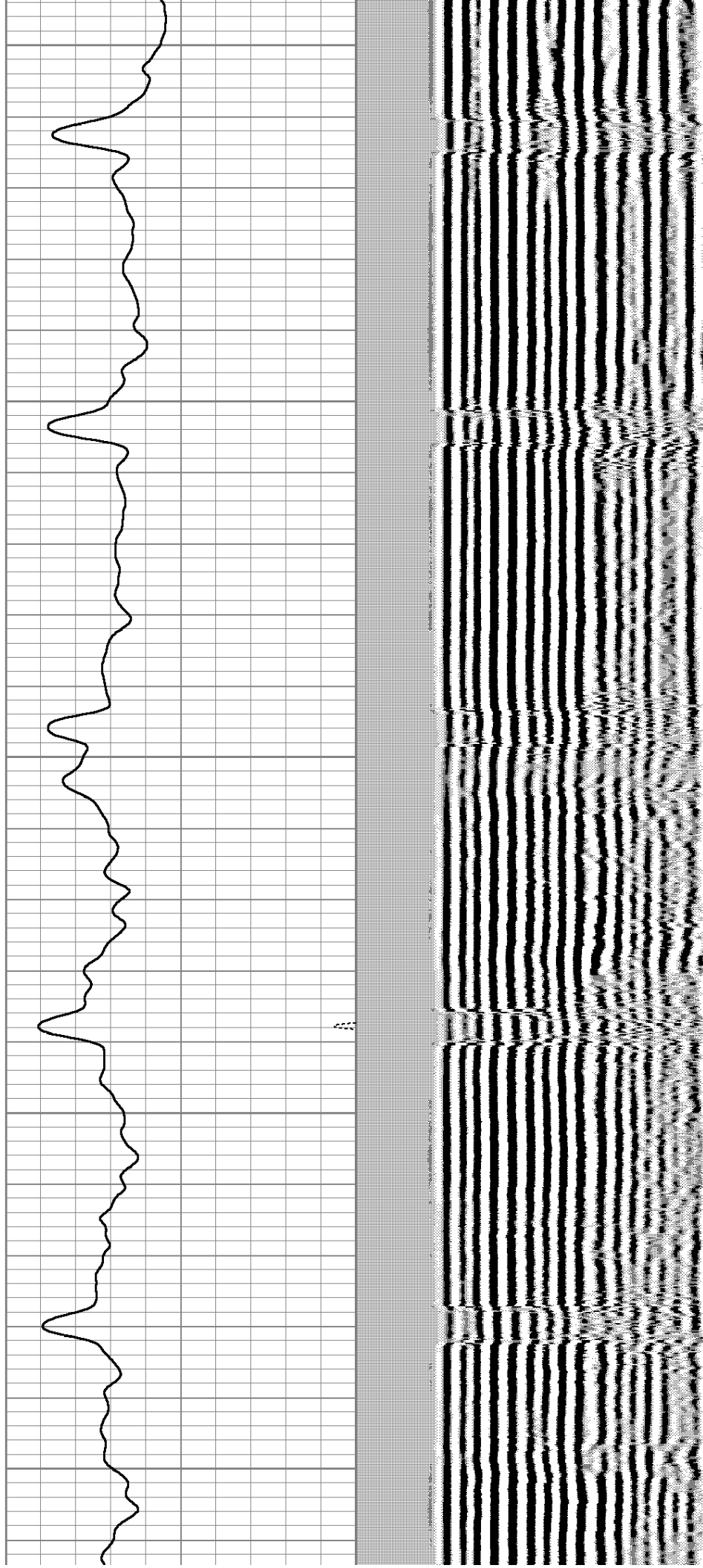
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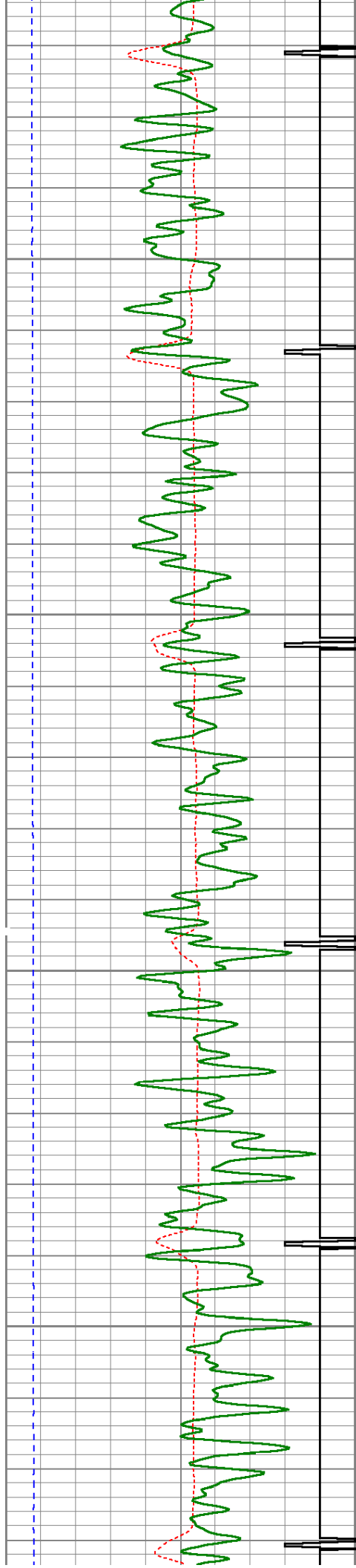
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1250





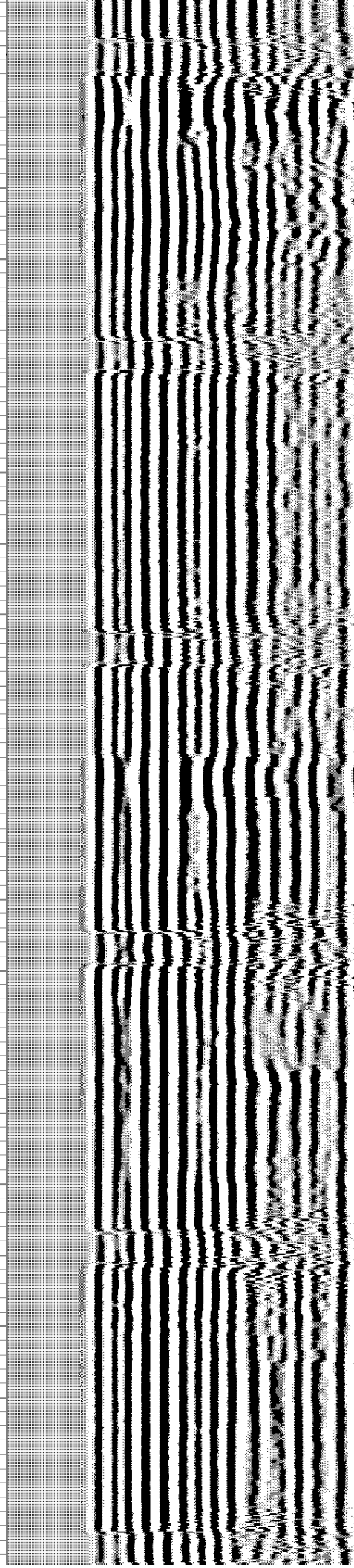
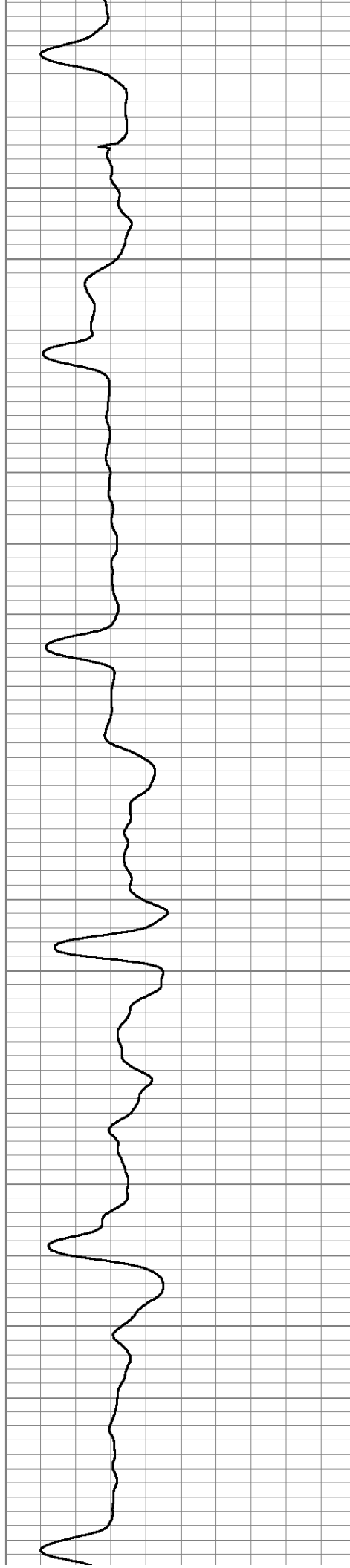


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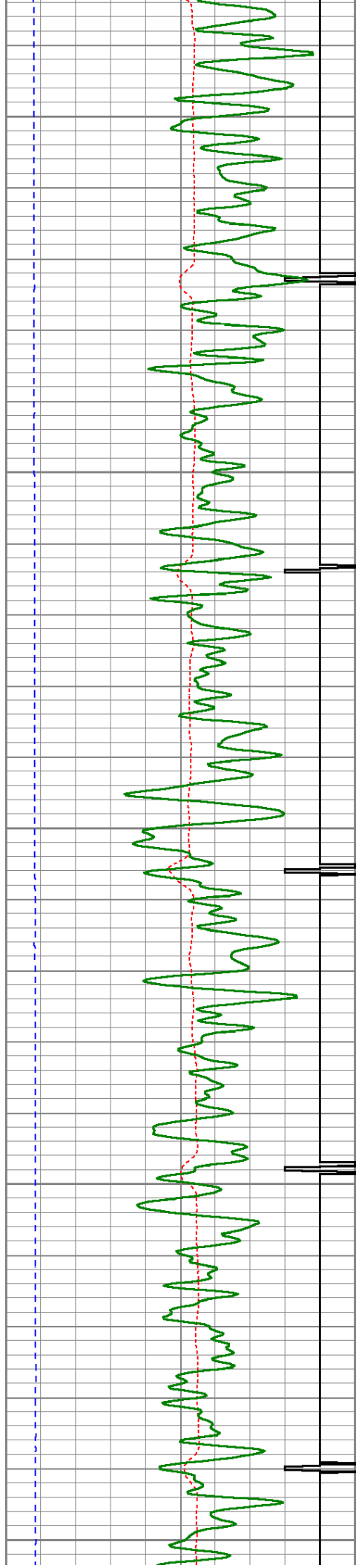
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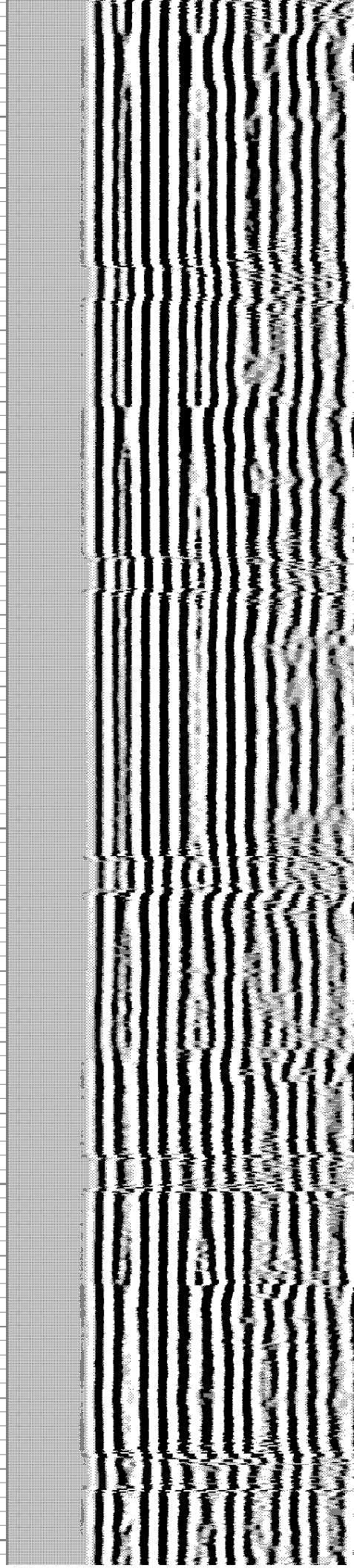
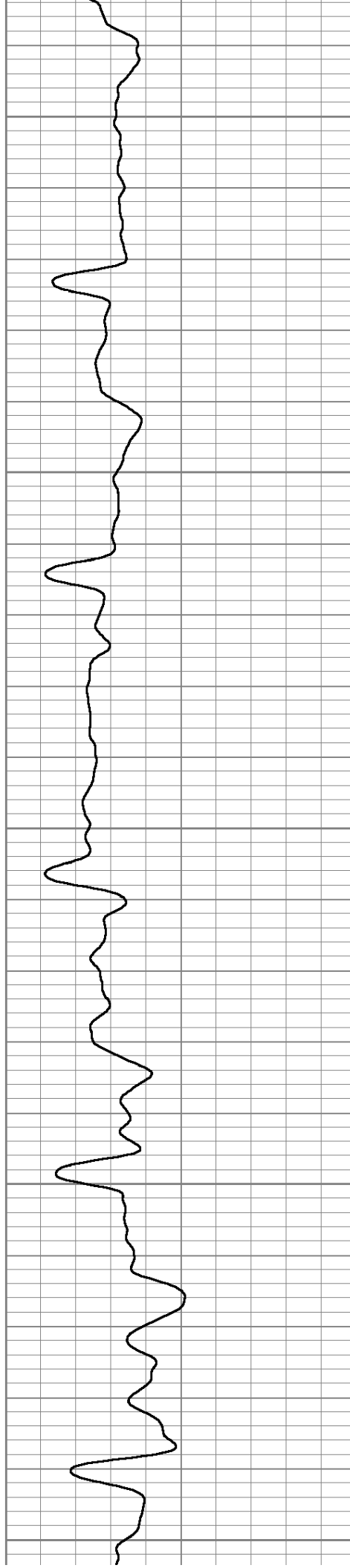
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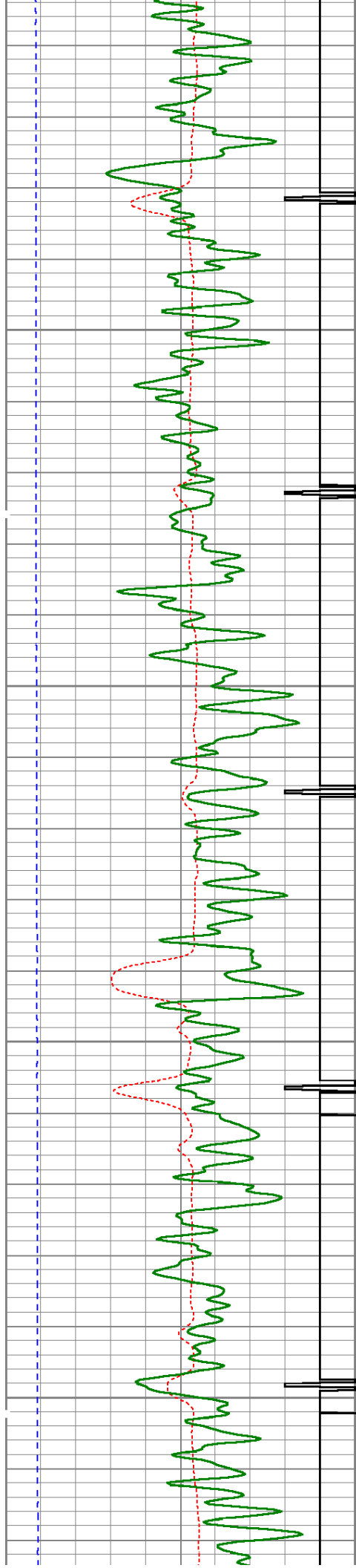
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1700



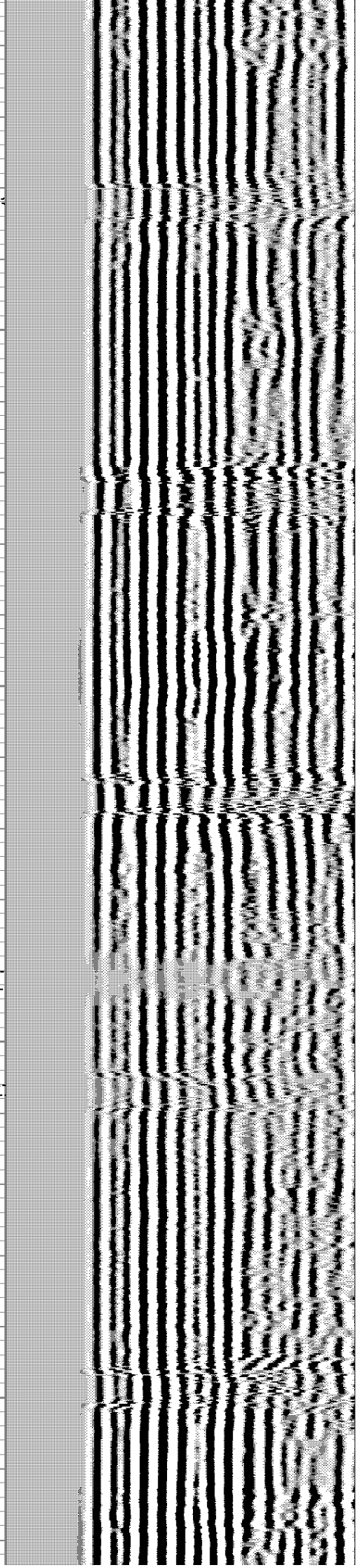
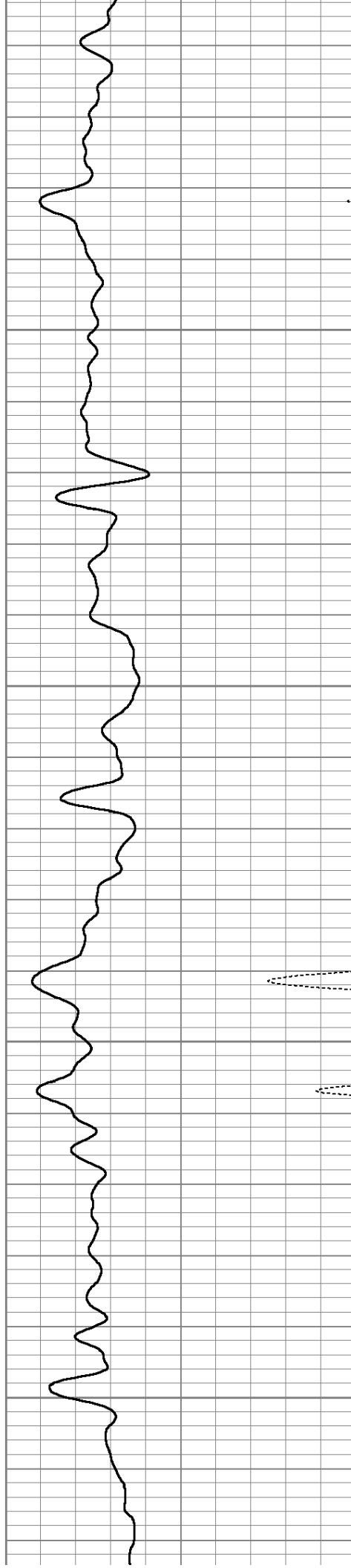


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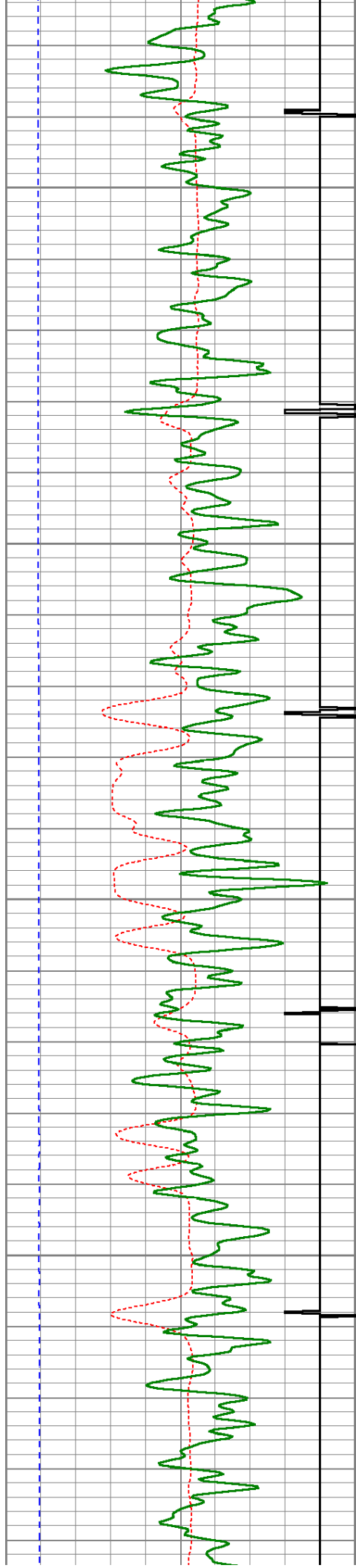
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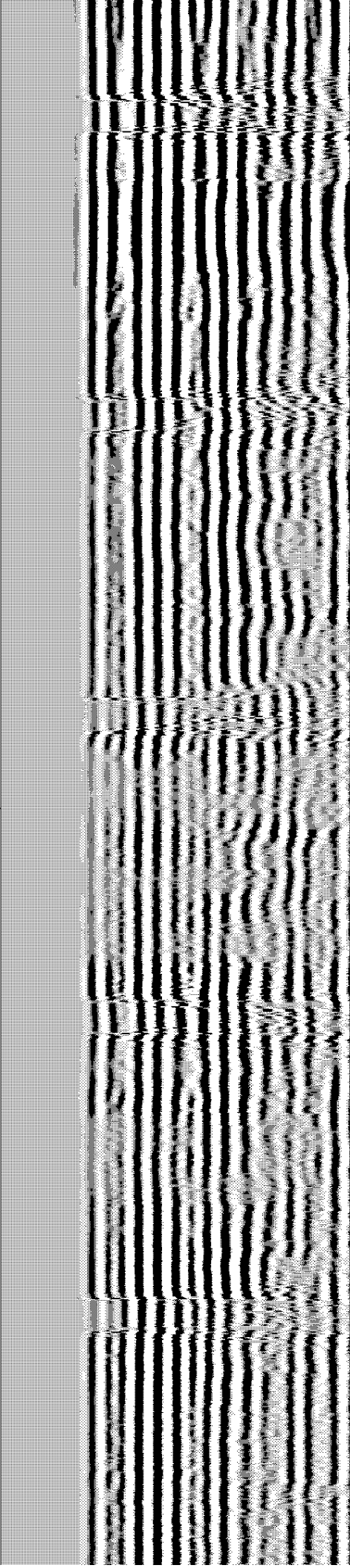
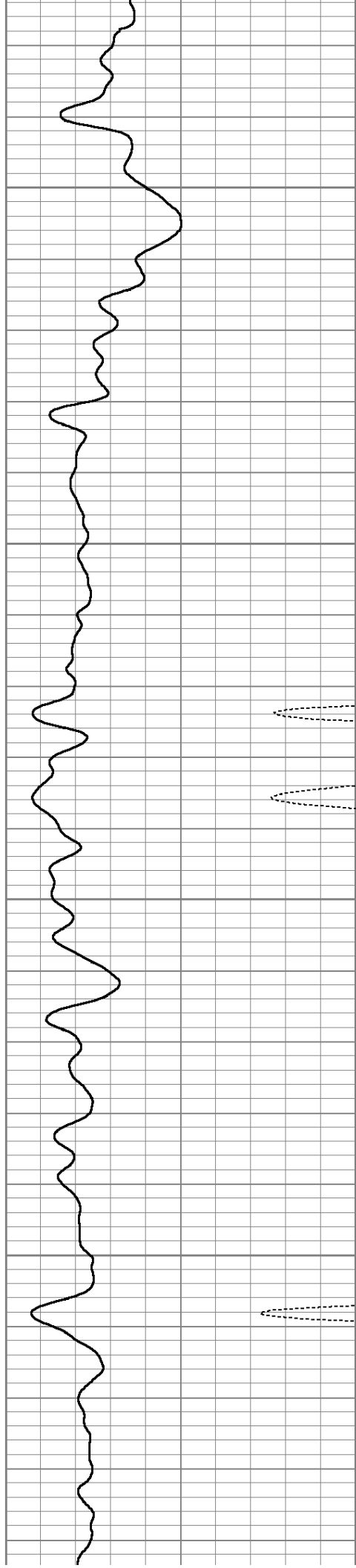


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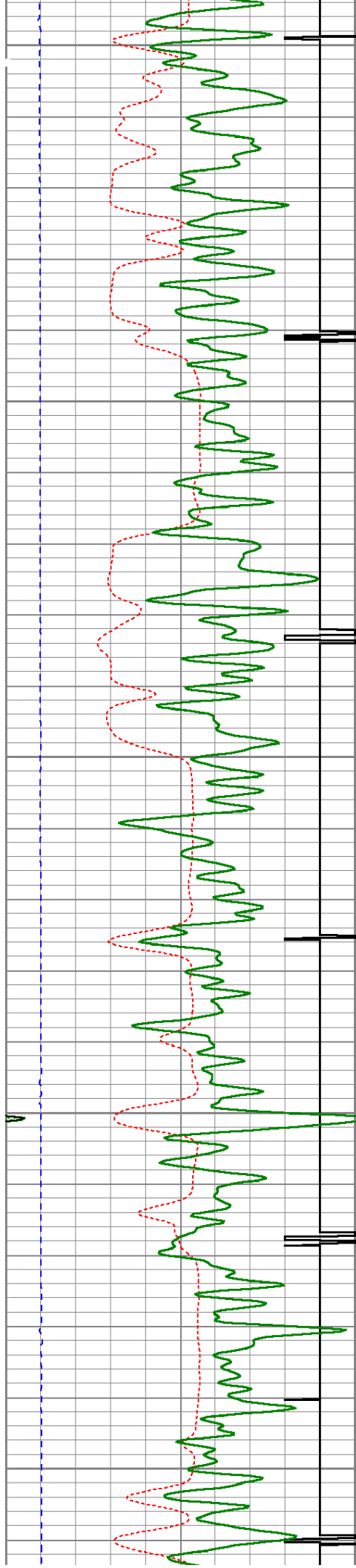
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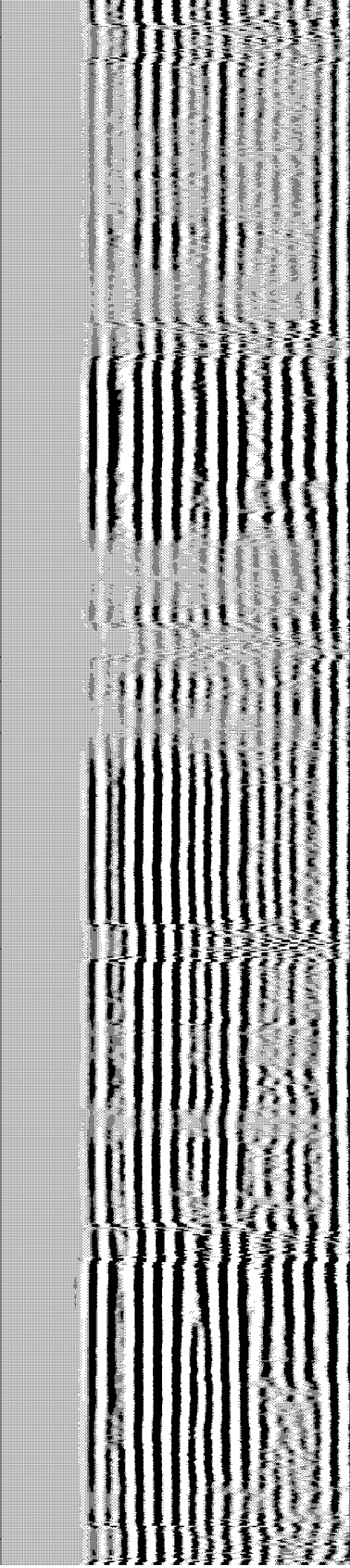
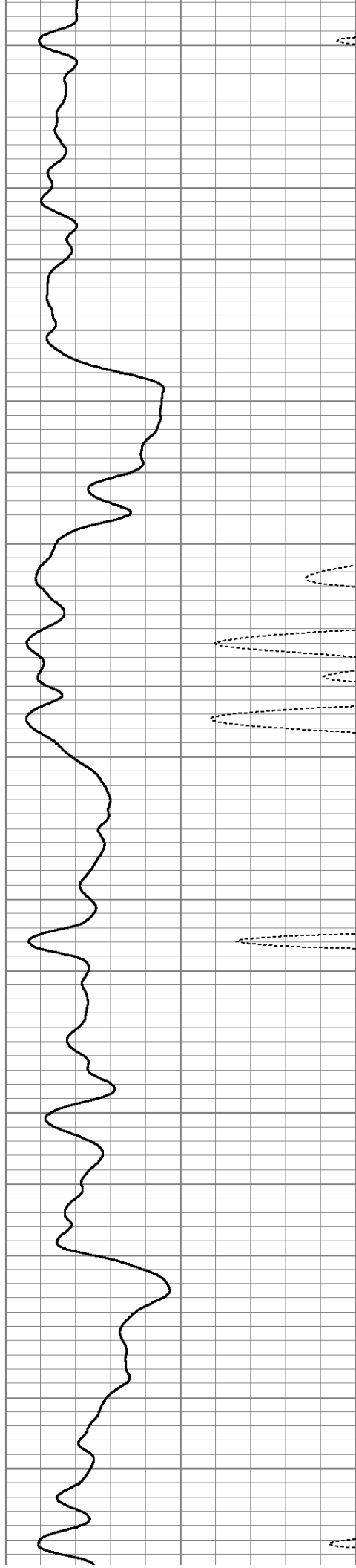
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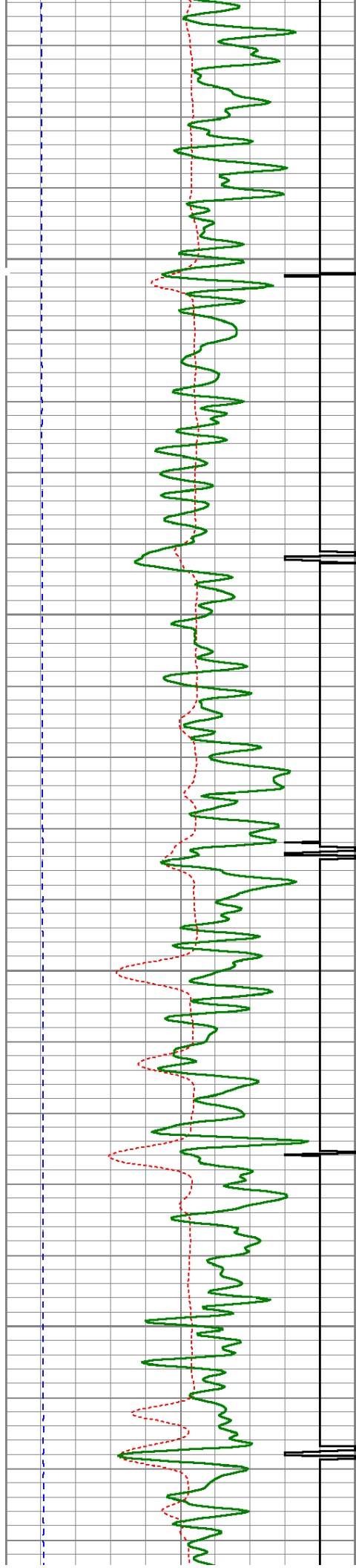
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2250

2300

2350



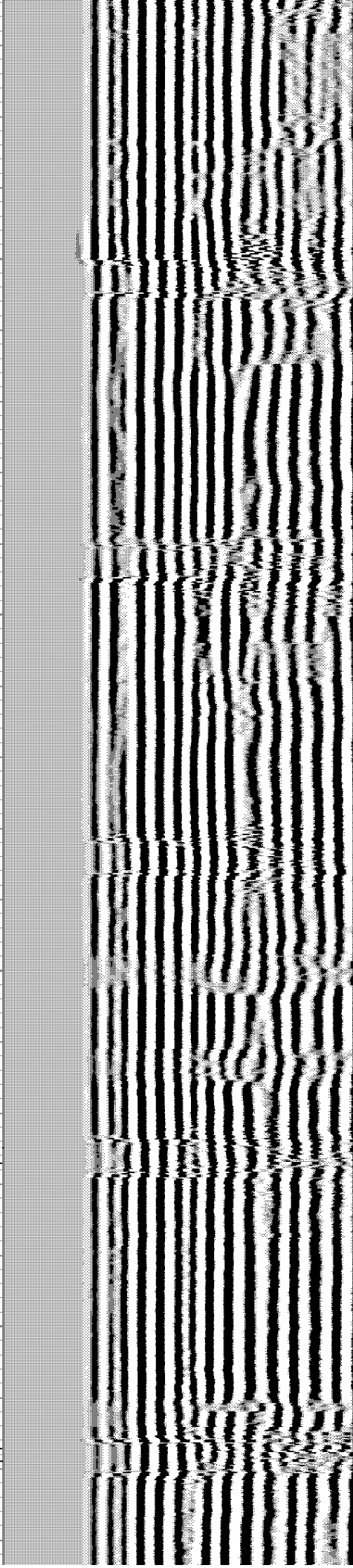
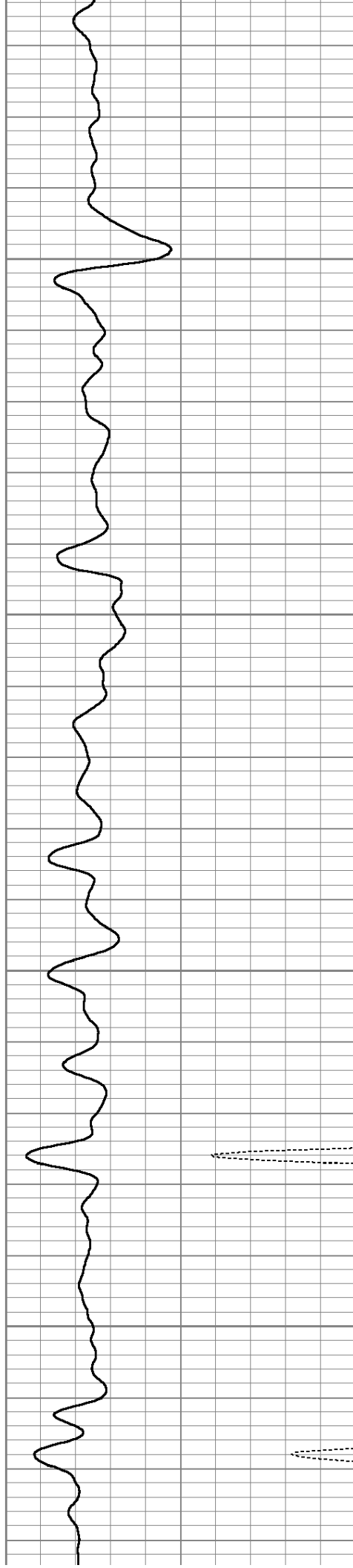


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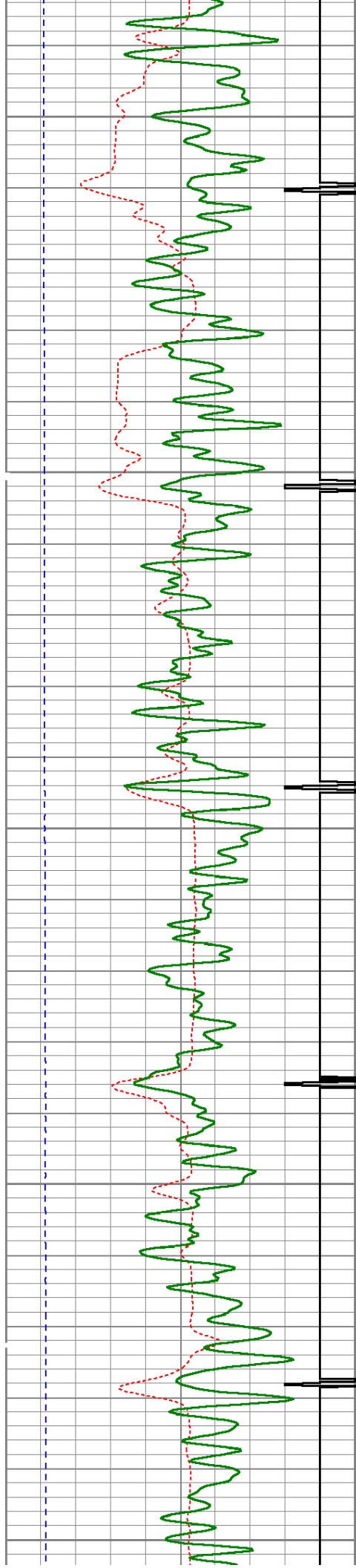
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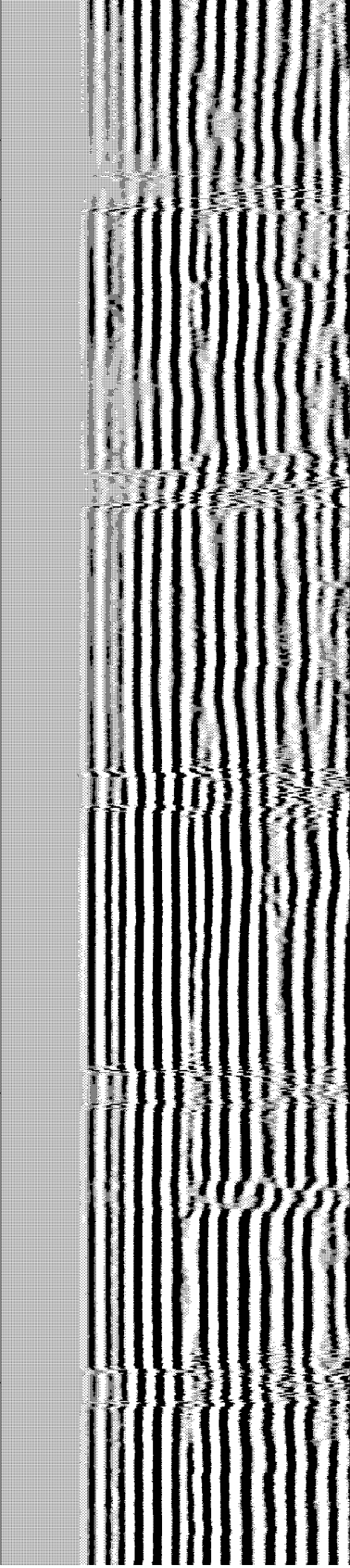
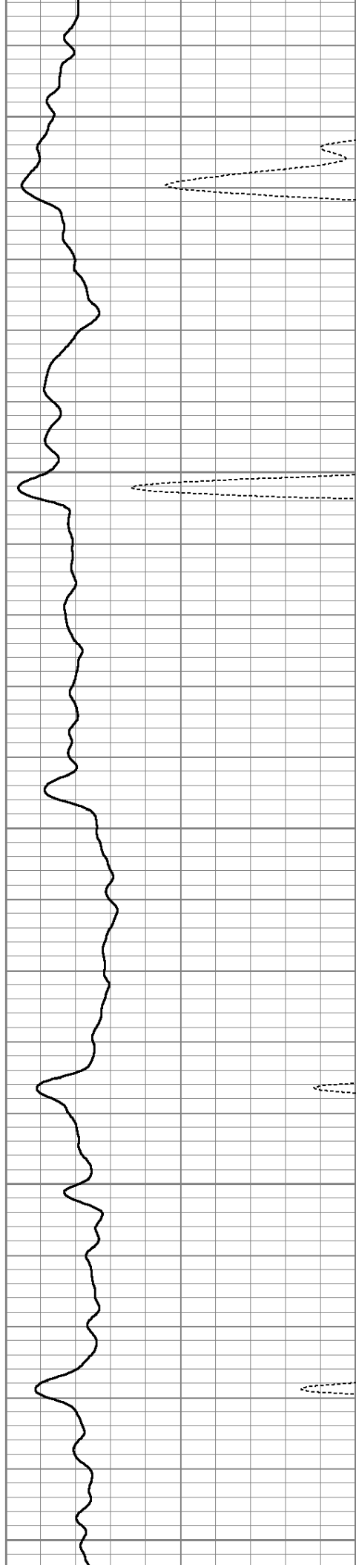
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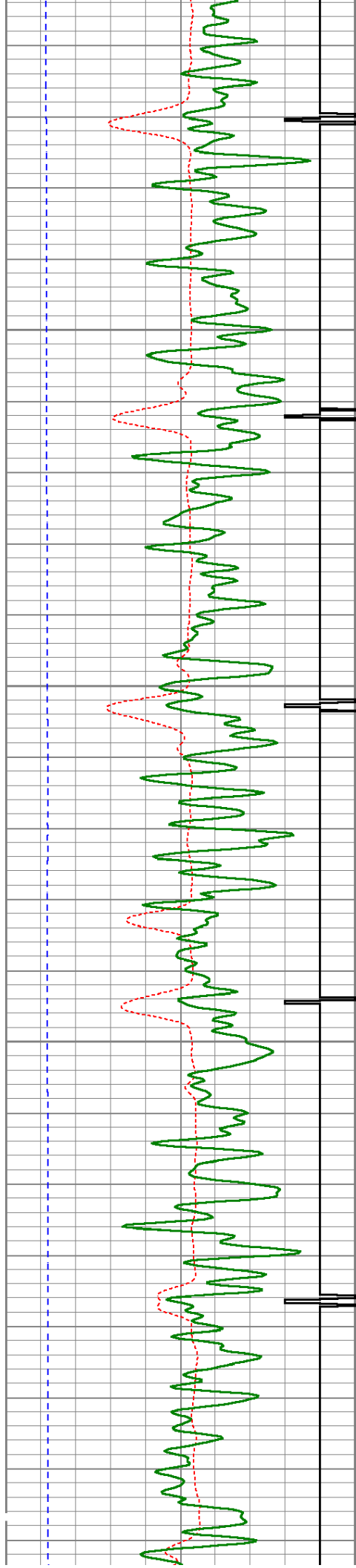
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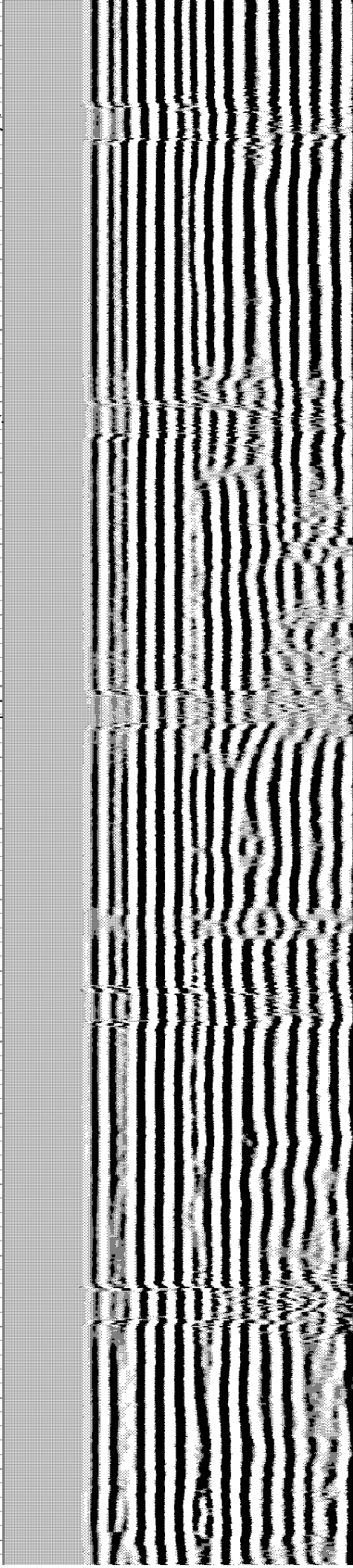
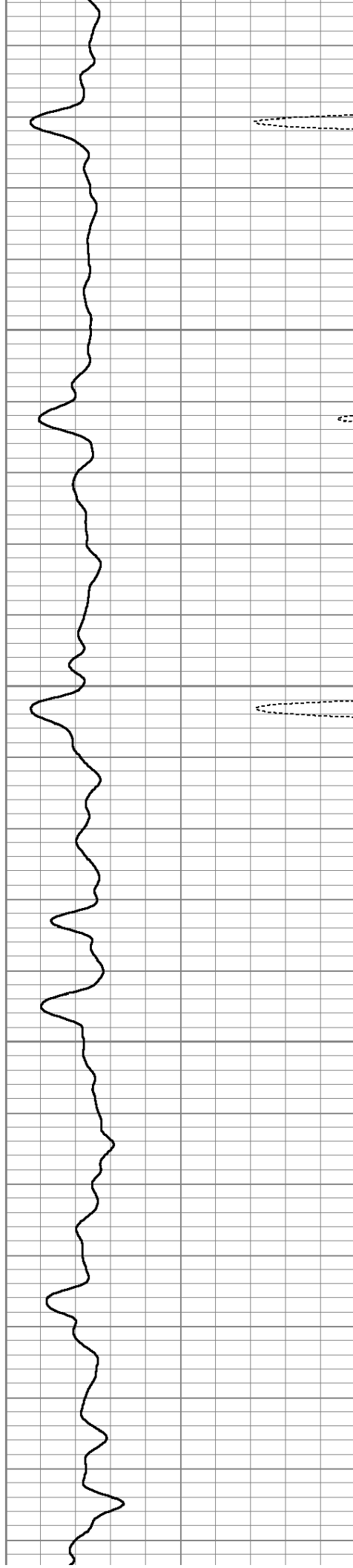


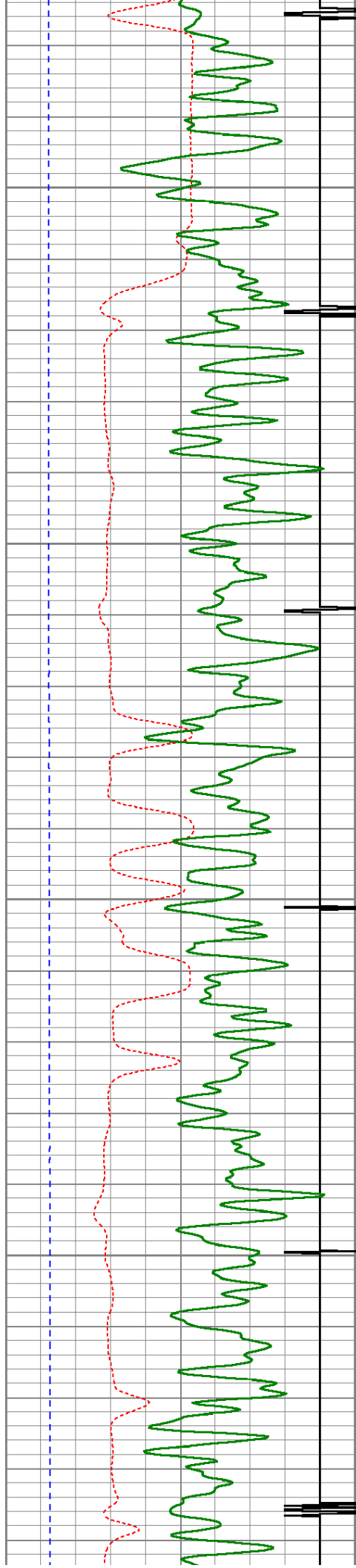
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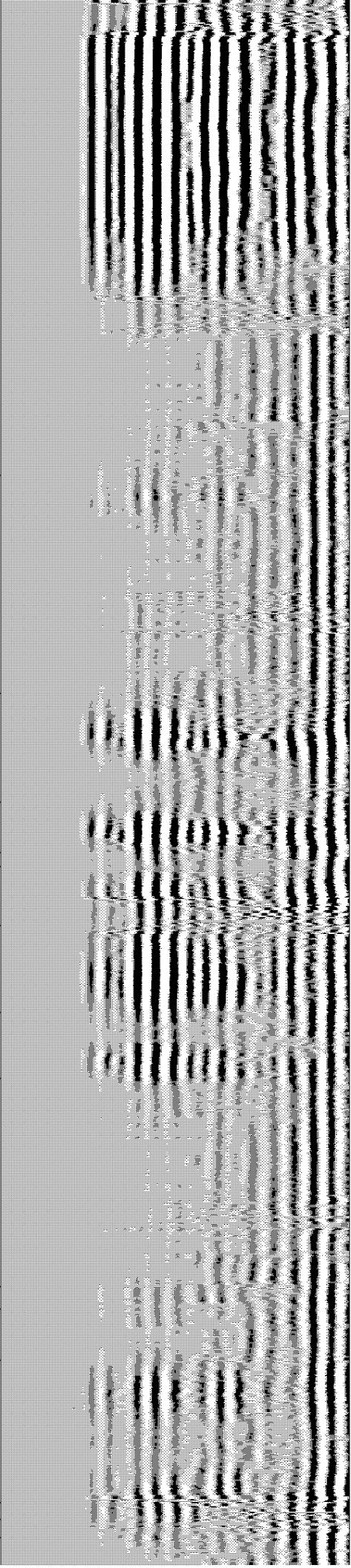
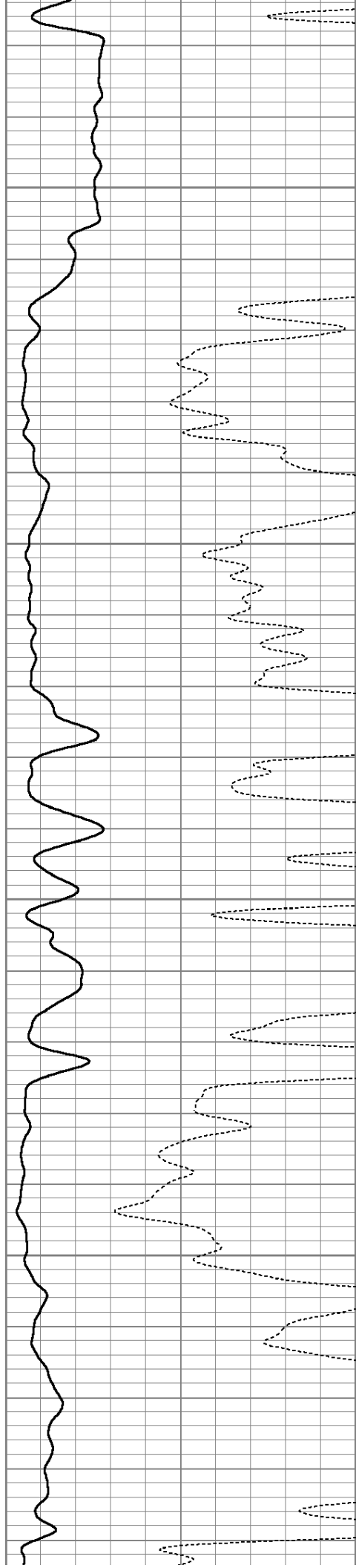


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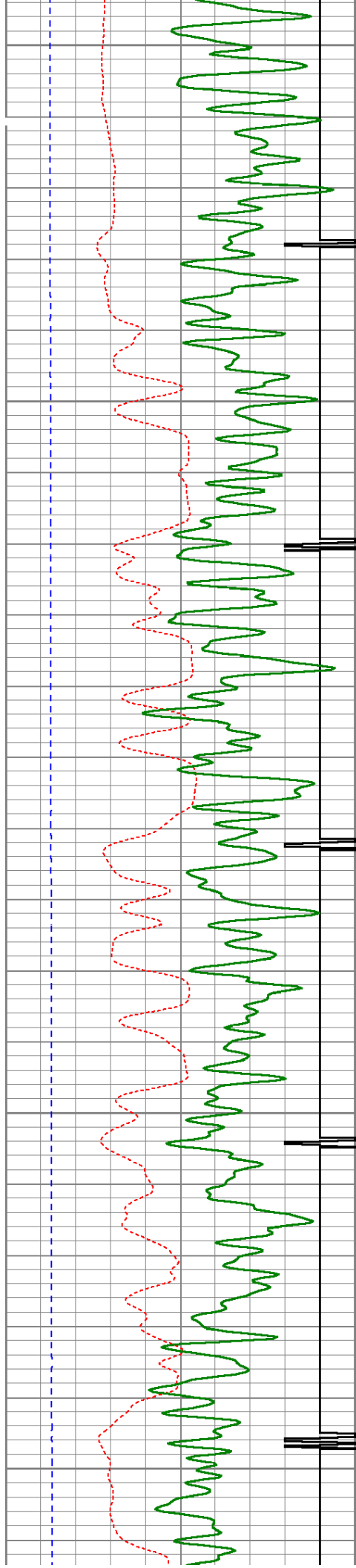
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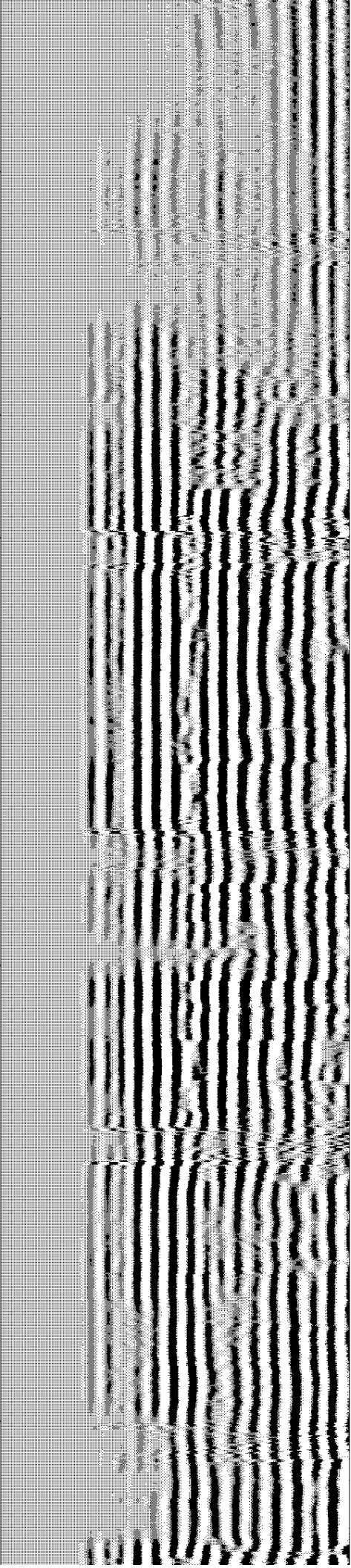
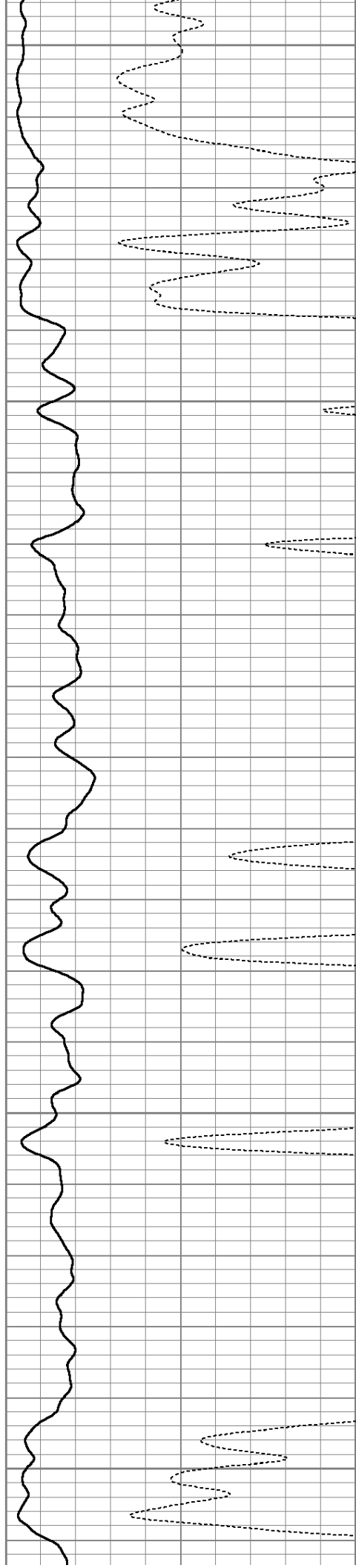
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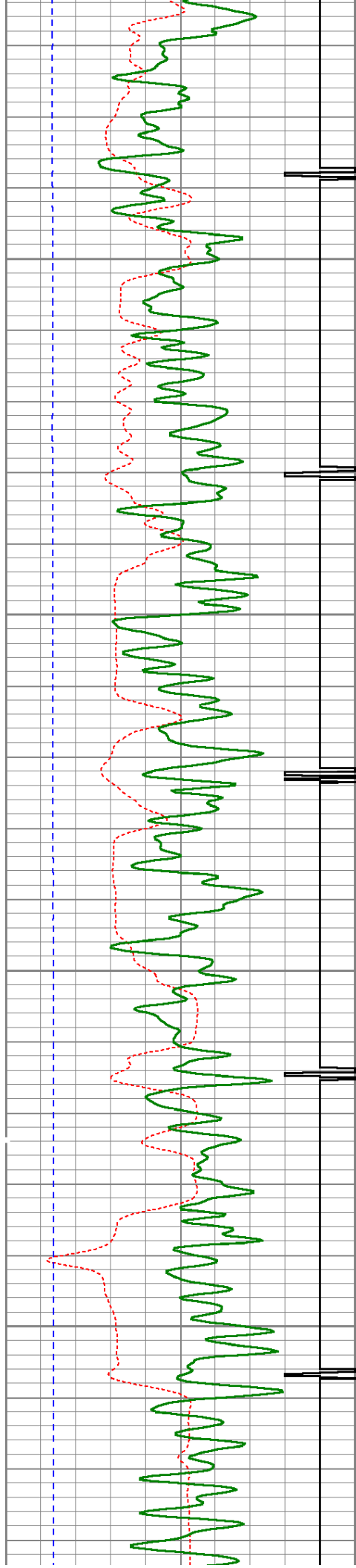
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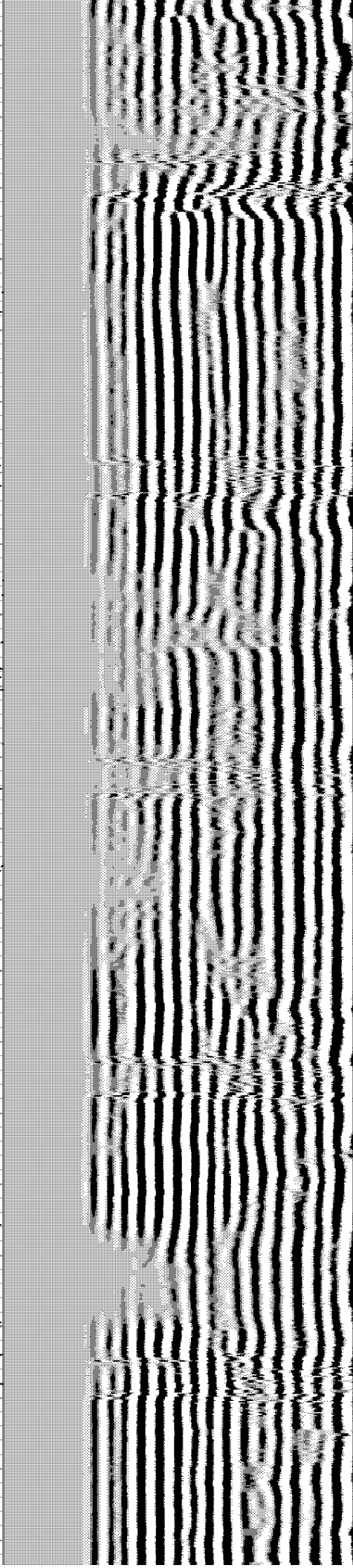
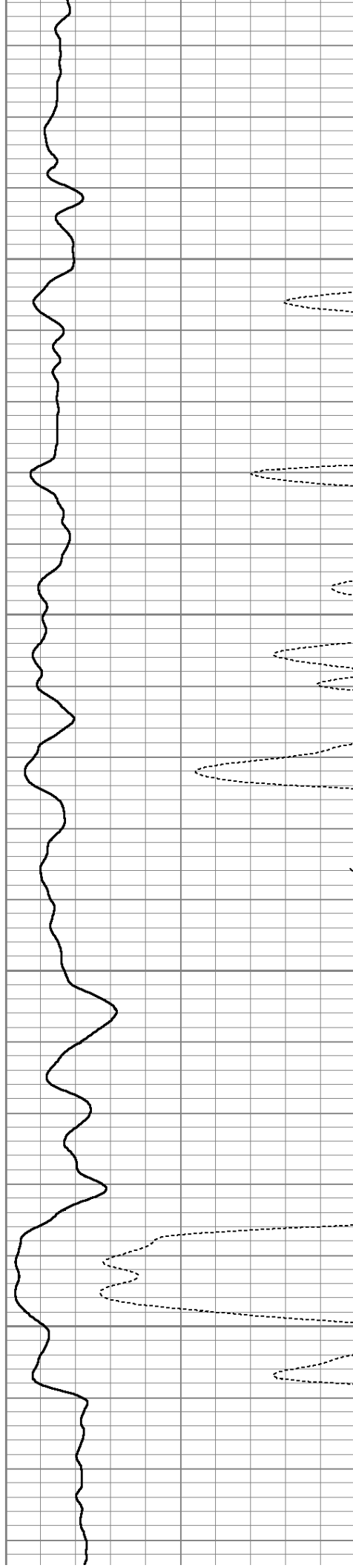


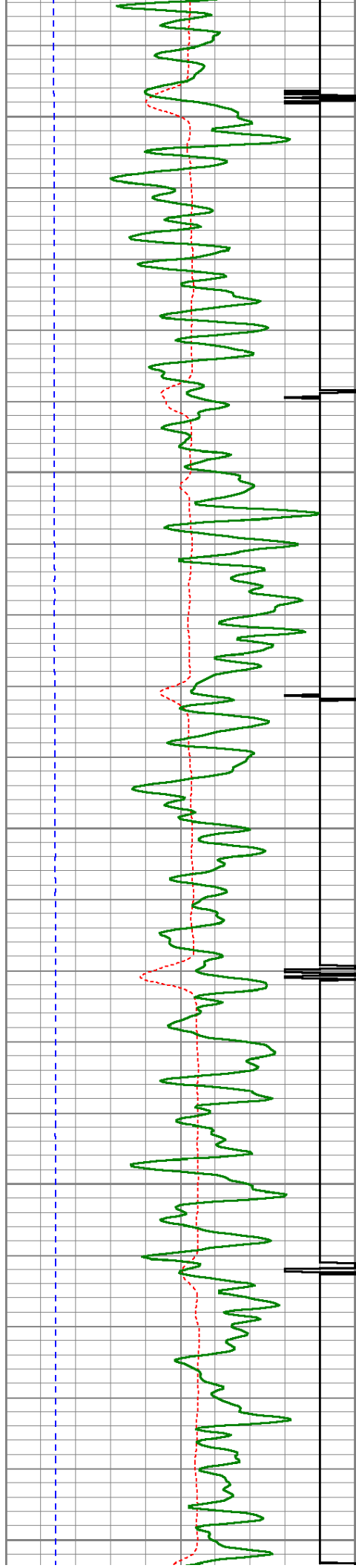
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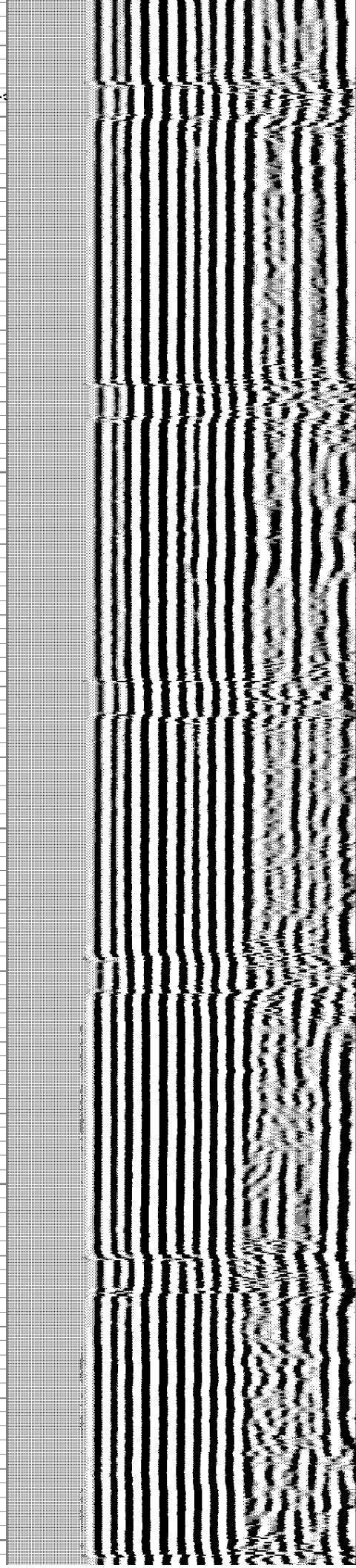
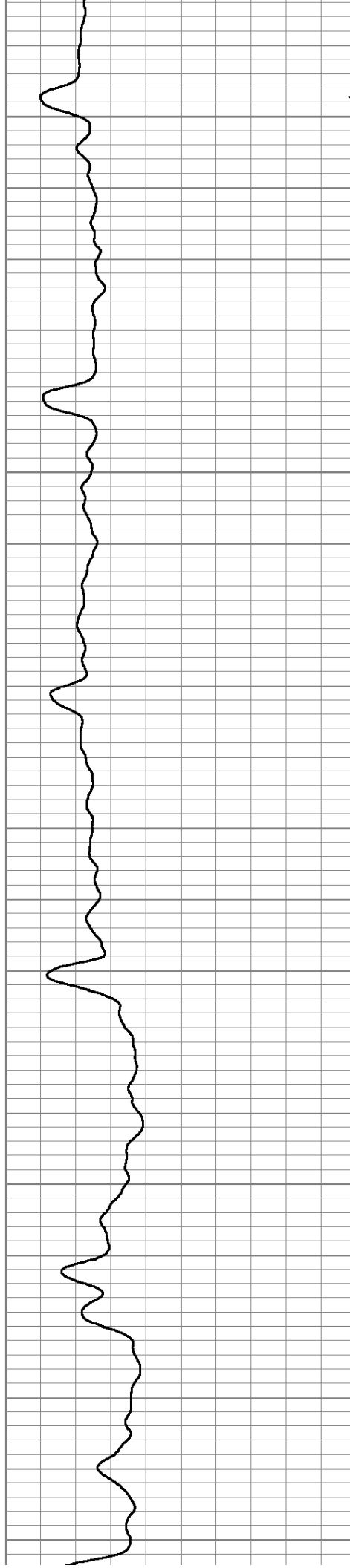
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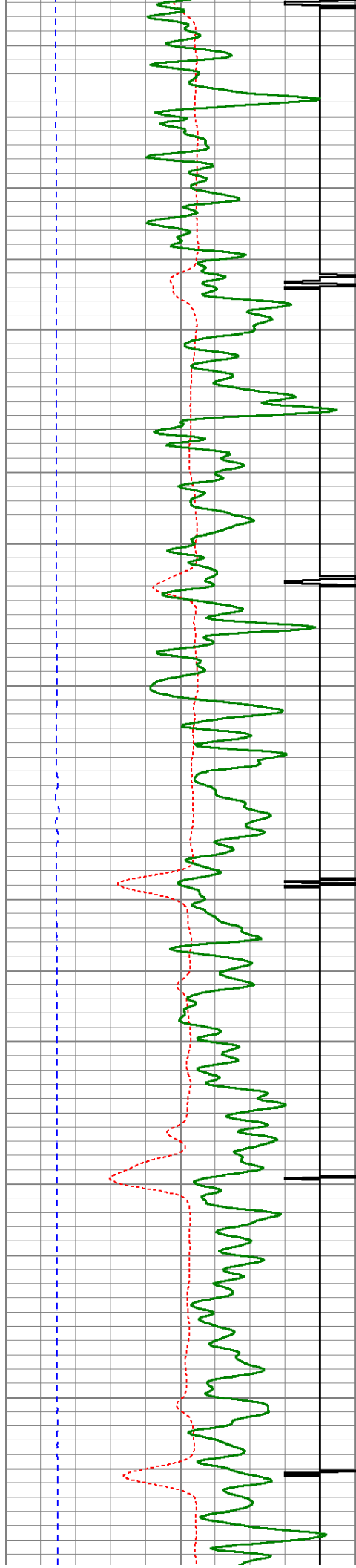
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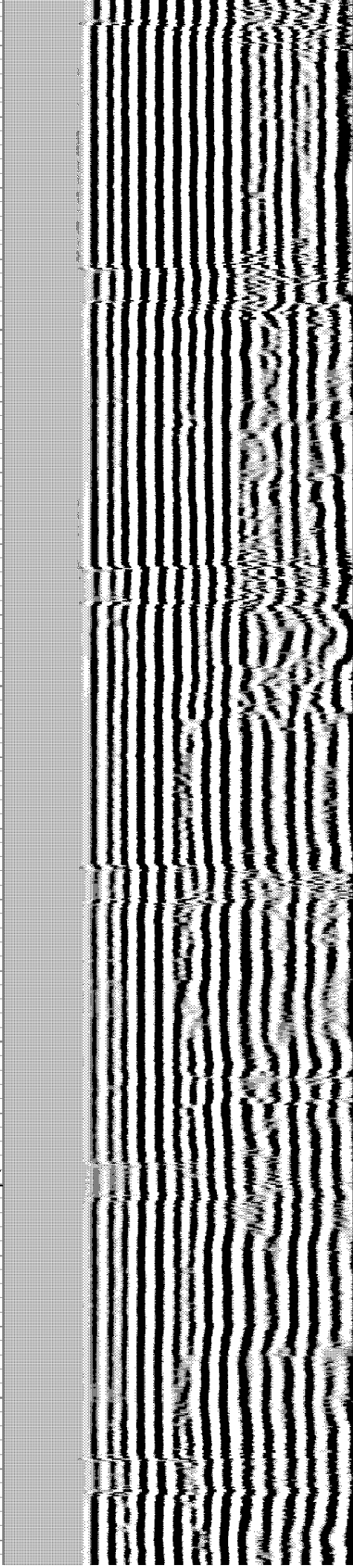
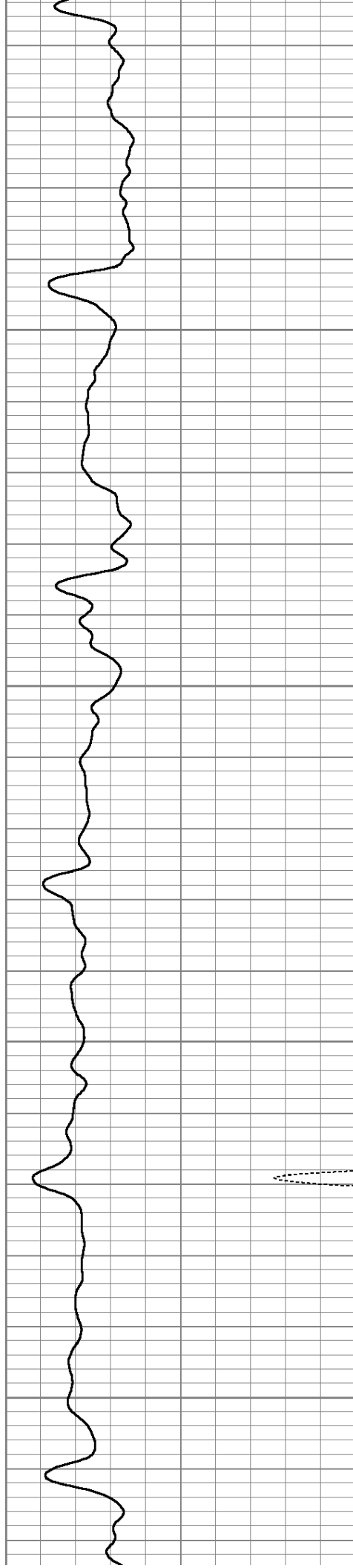


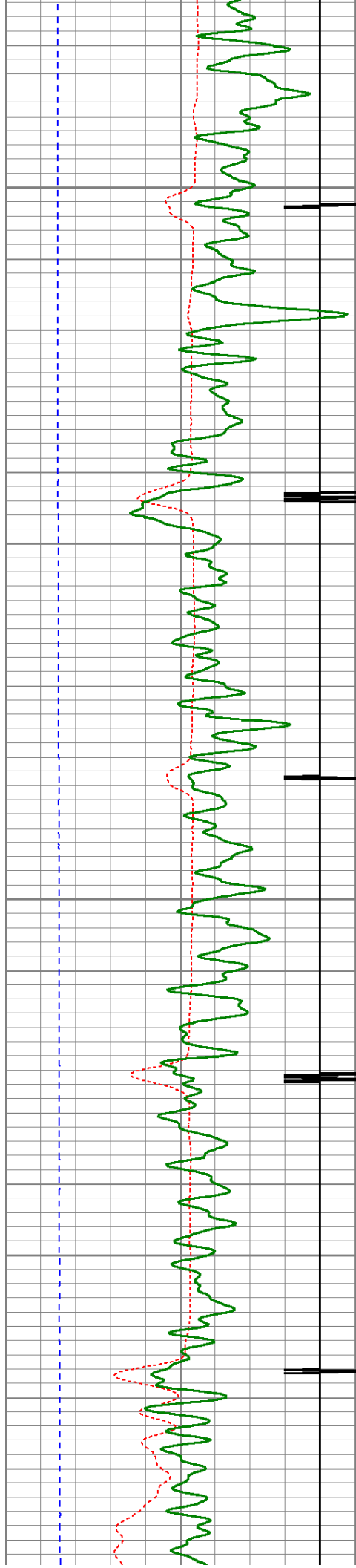
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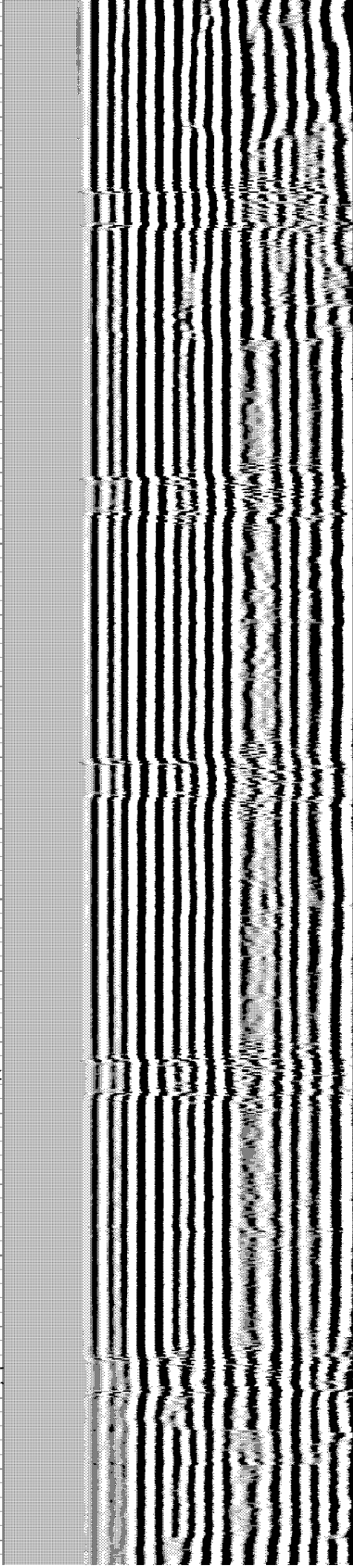
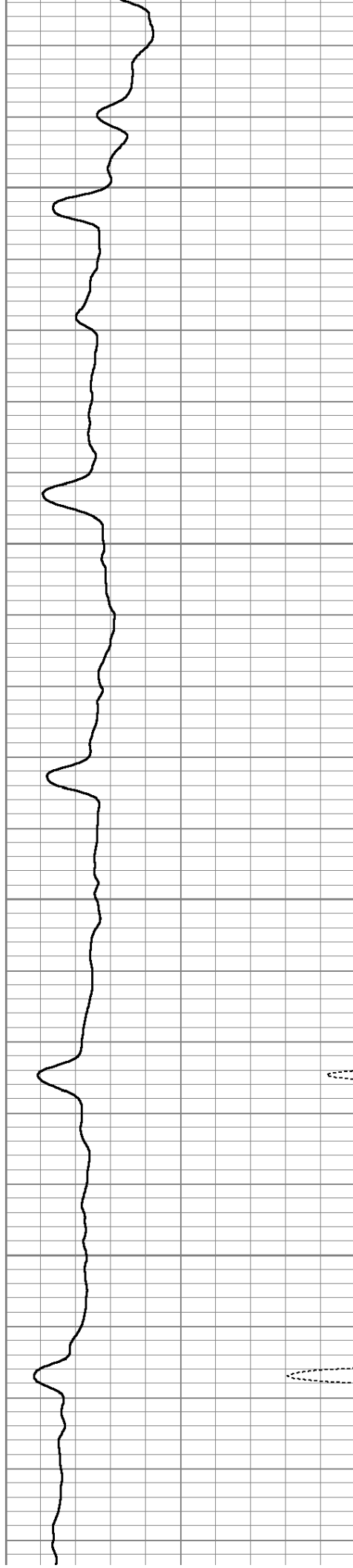


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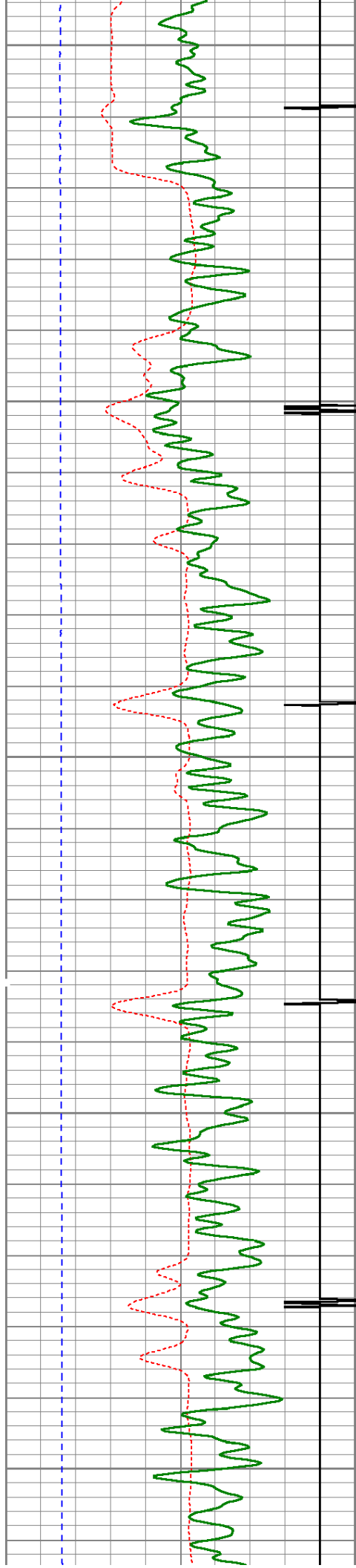
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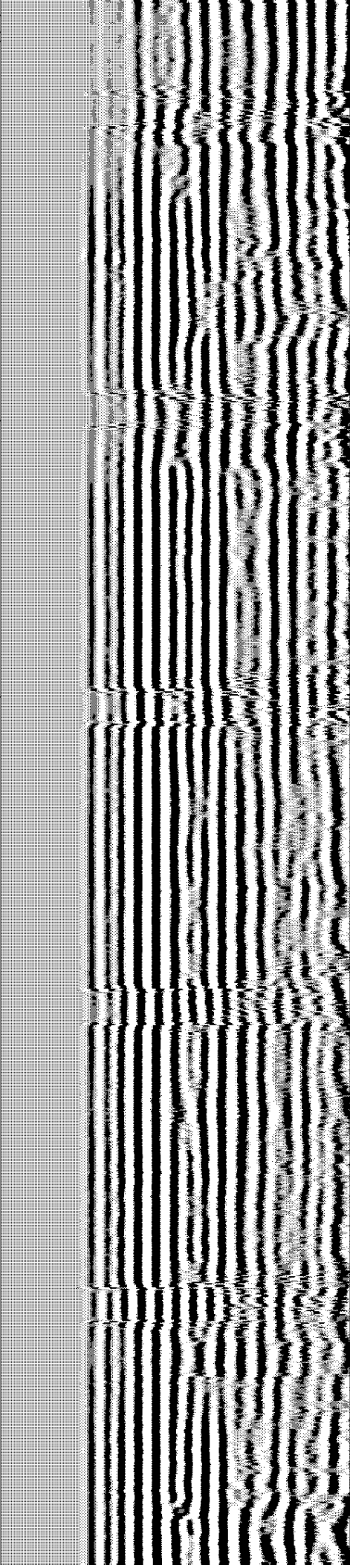
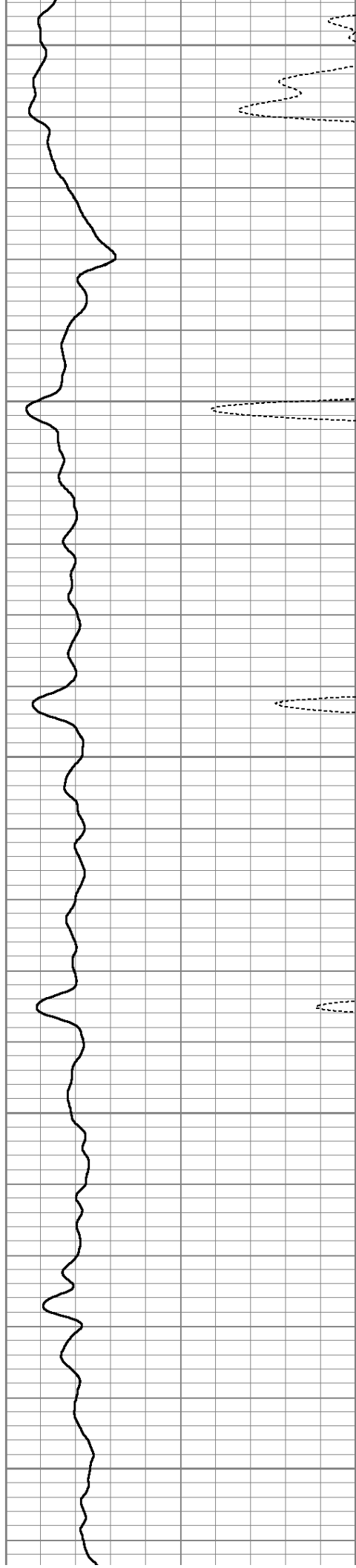
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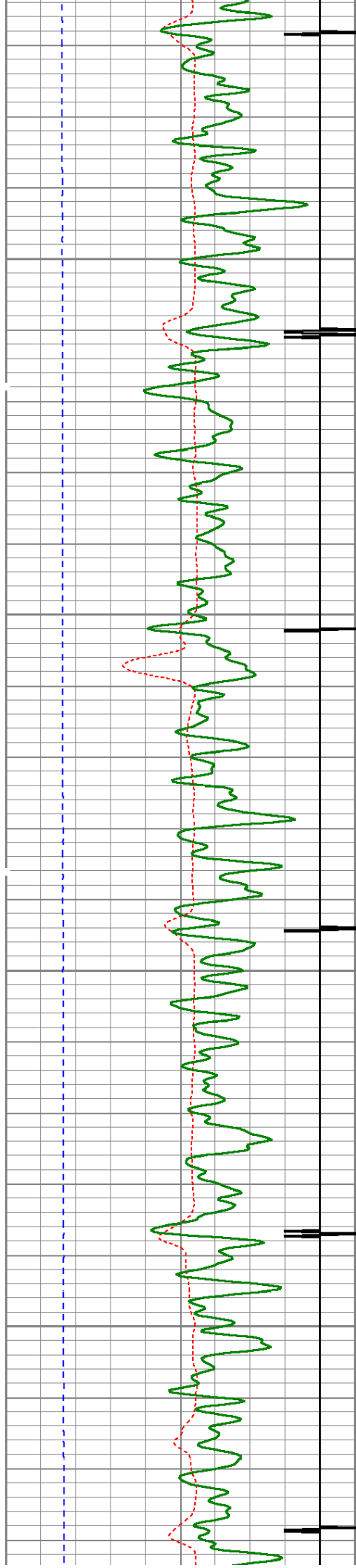
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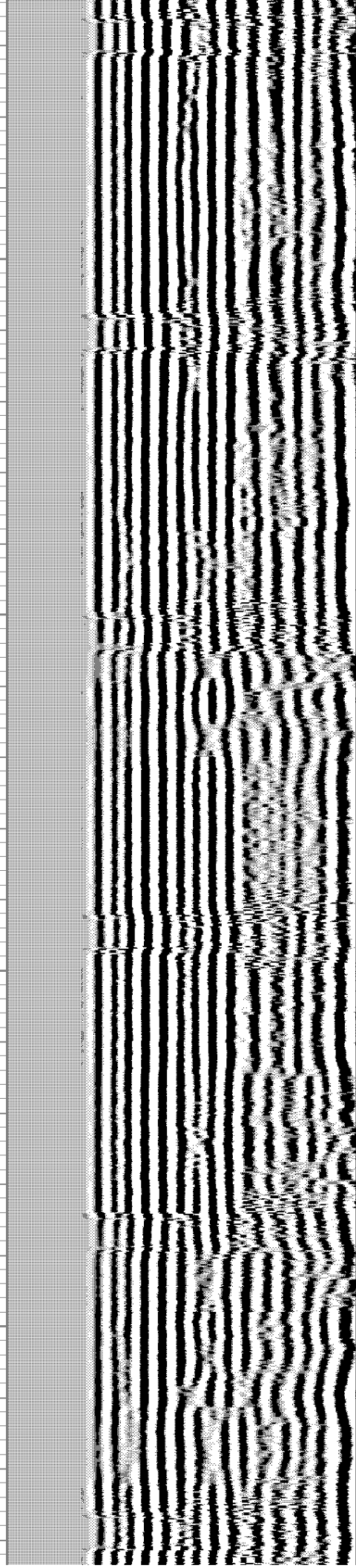
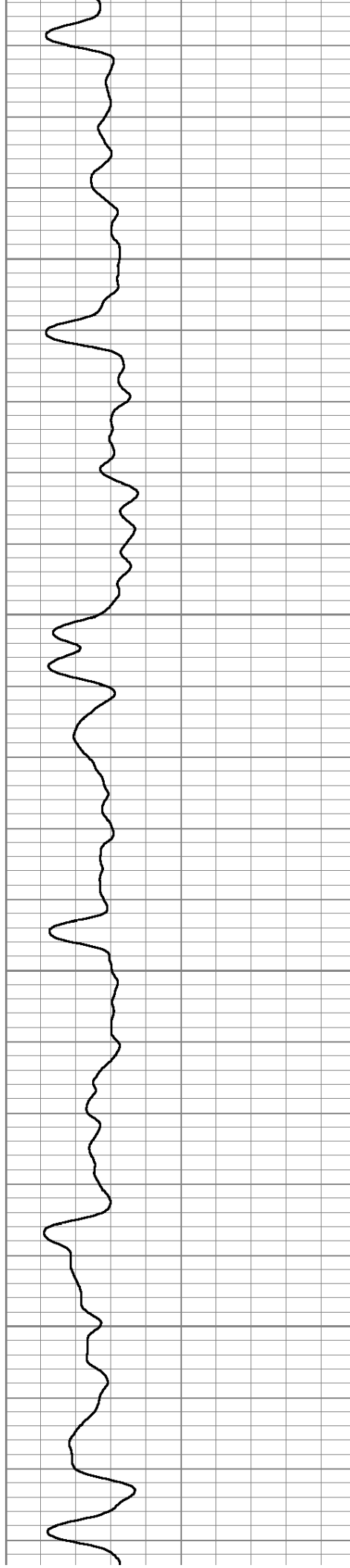


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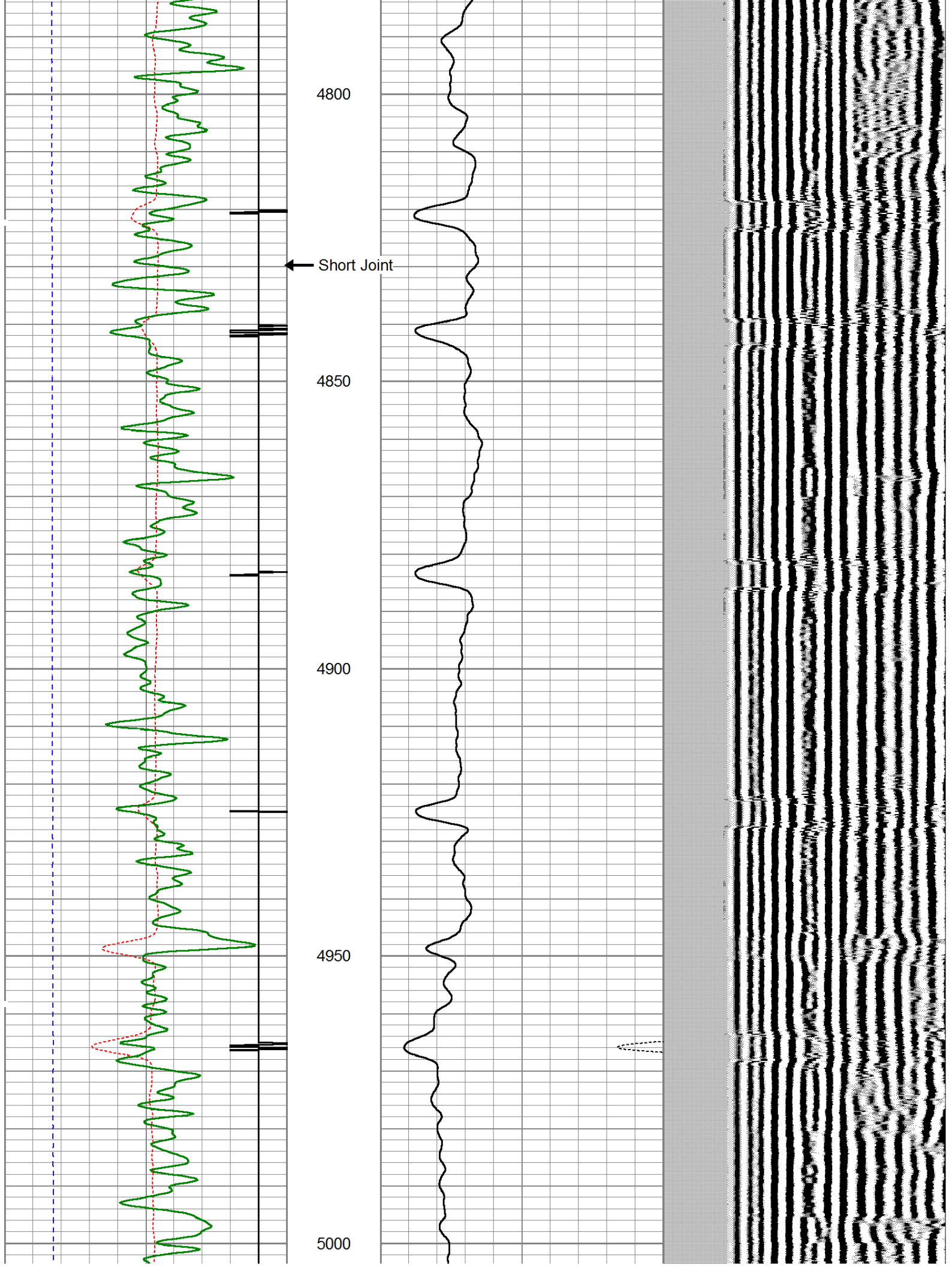
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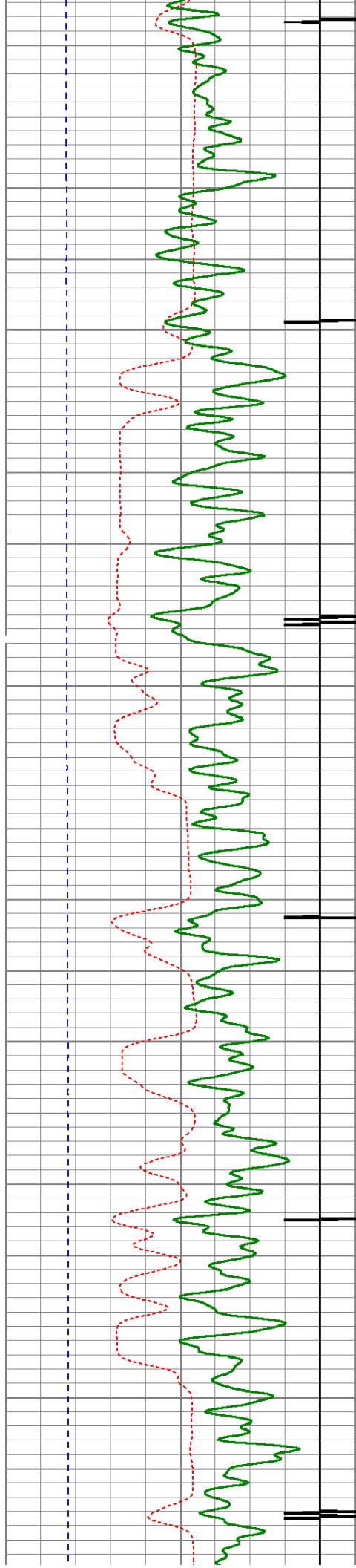
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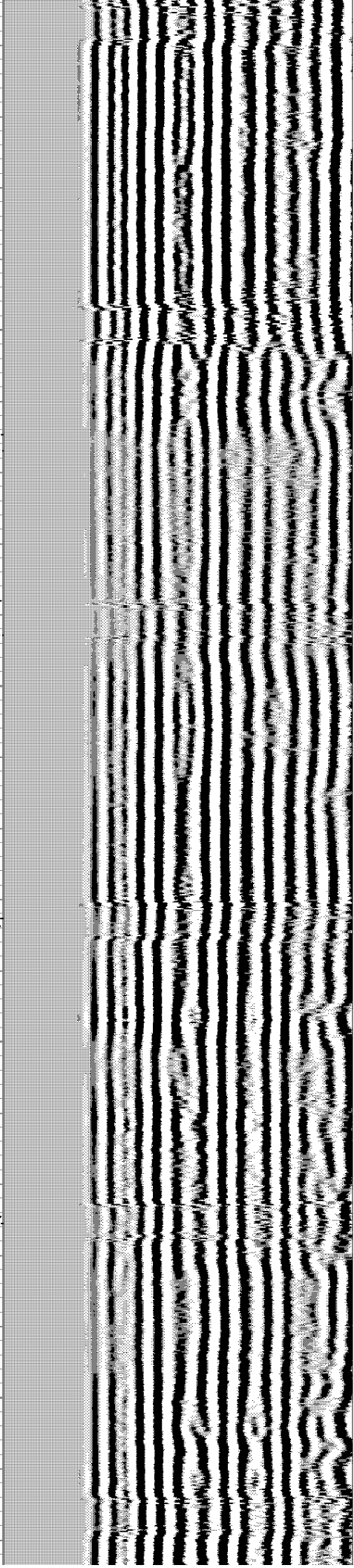
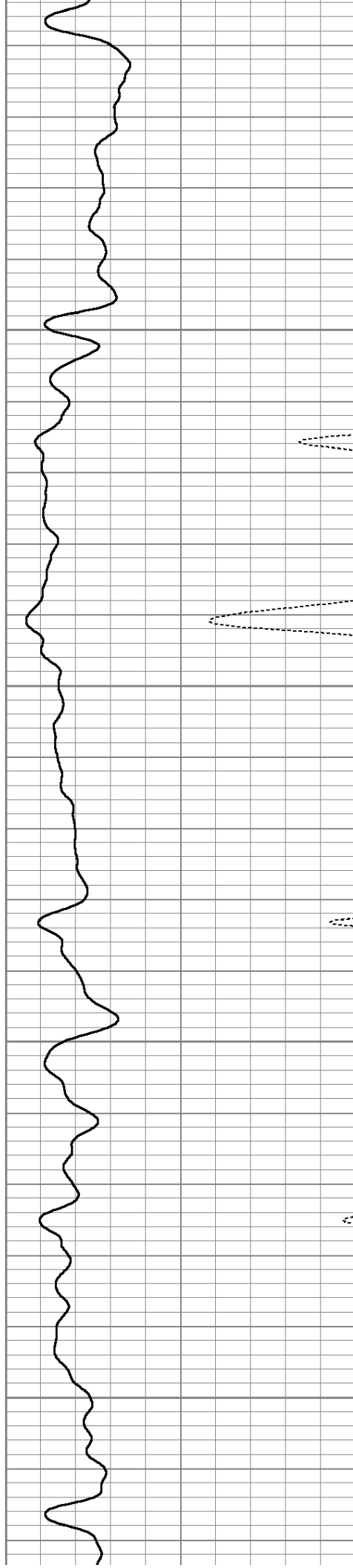


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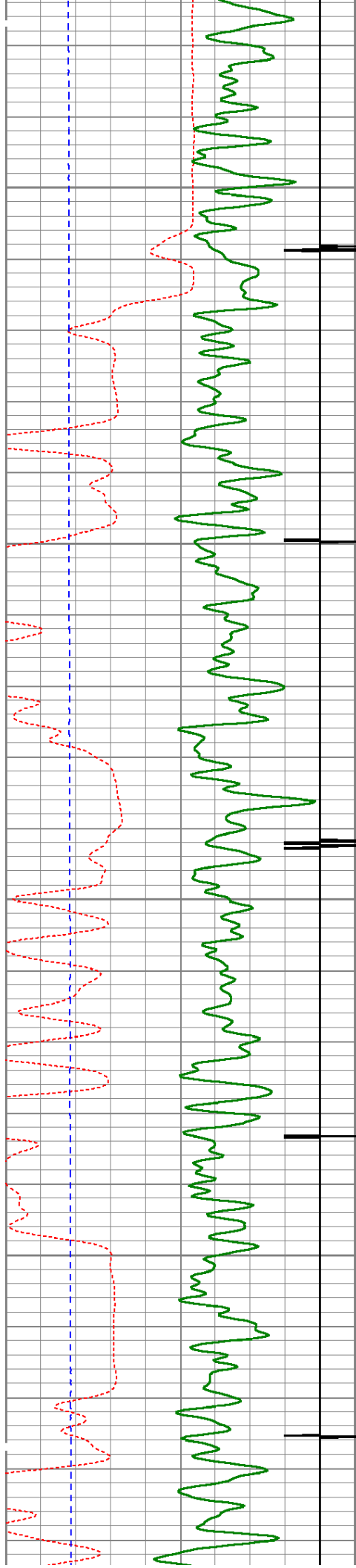
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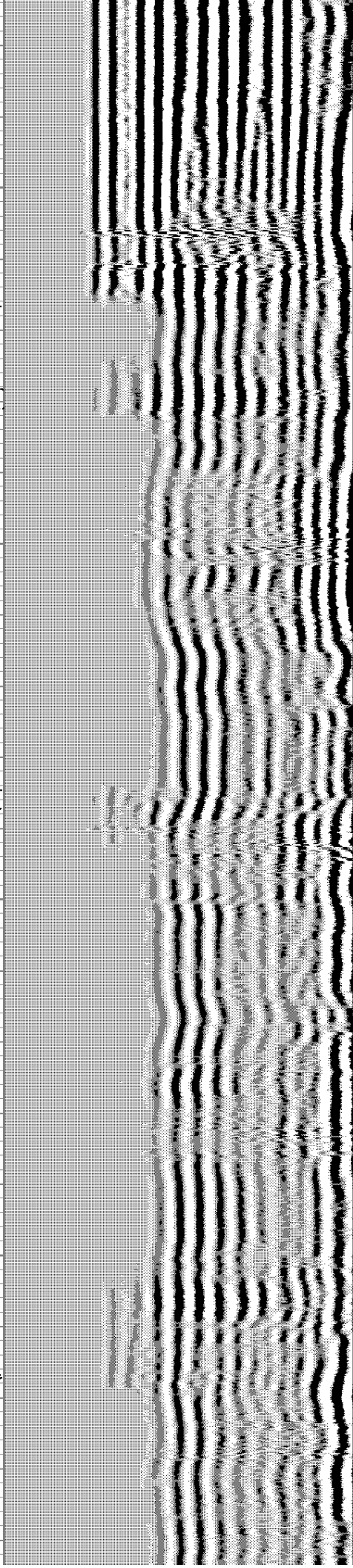
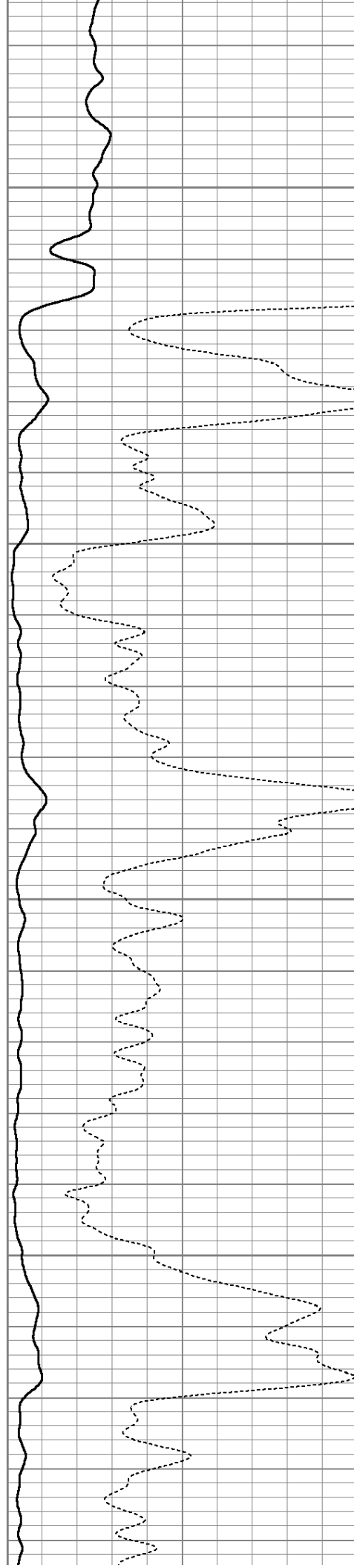


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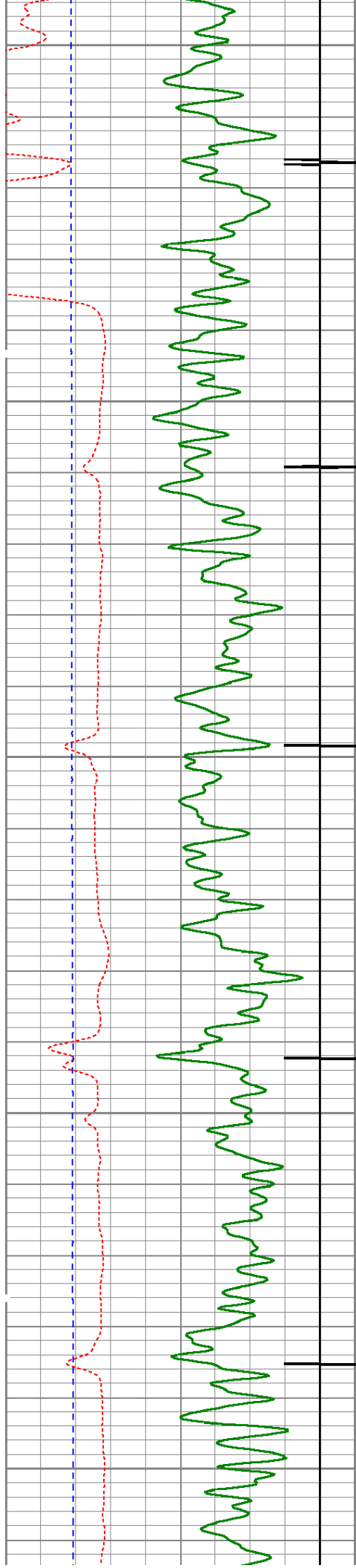
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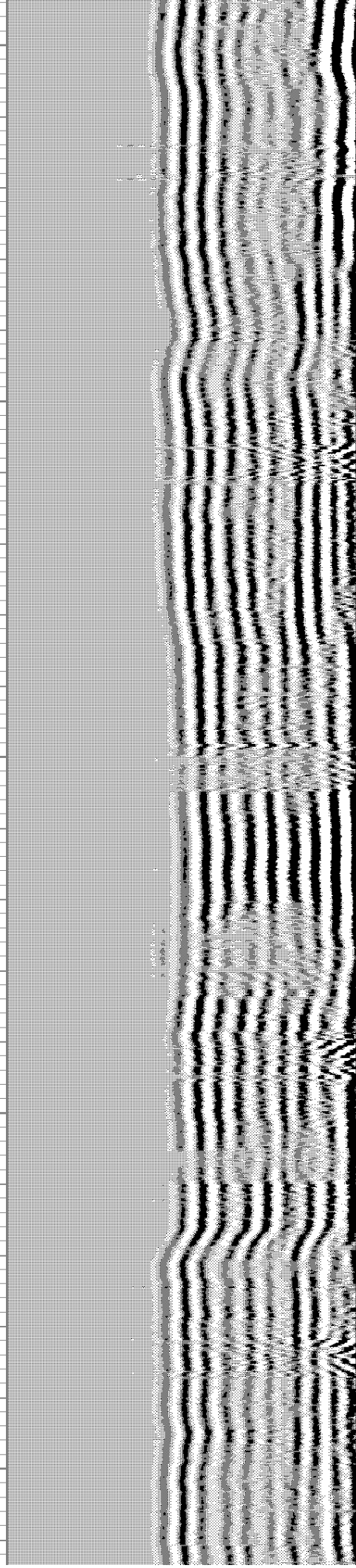
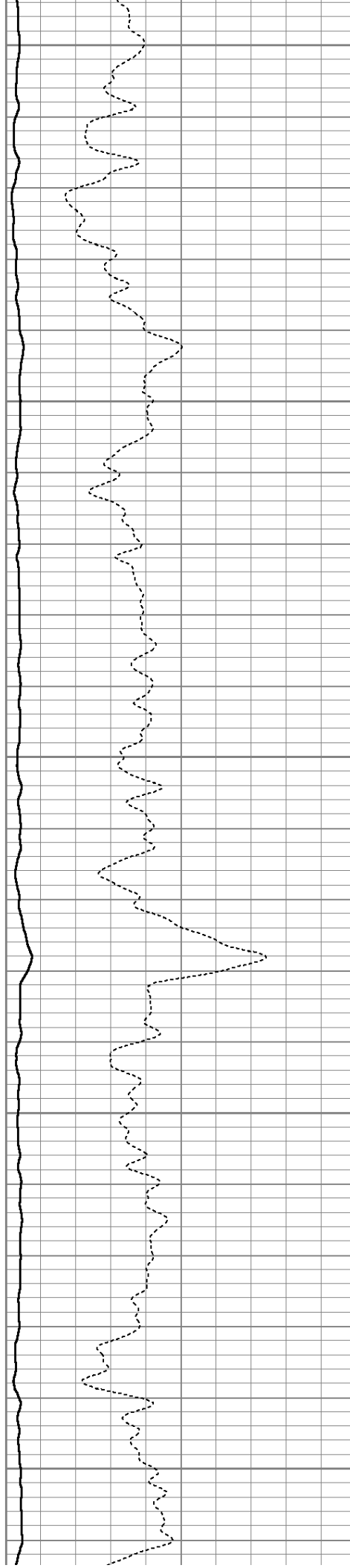
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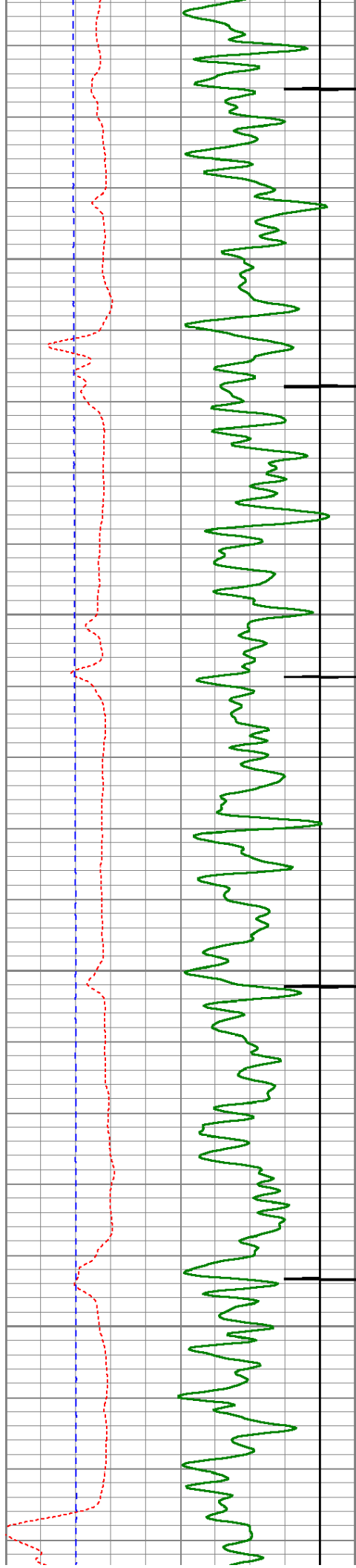
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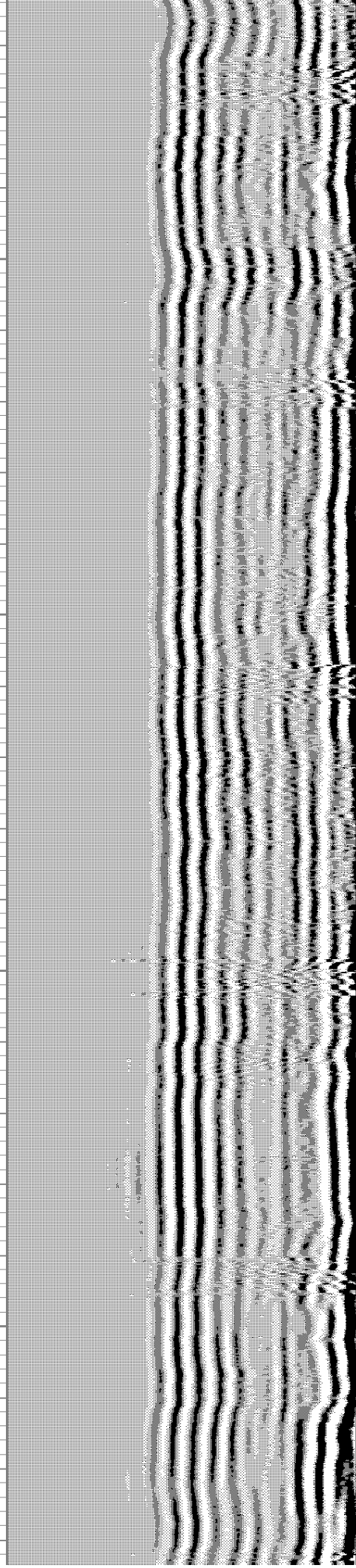
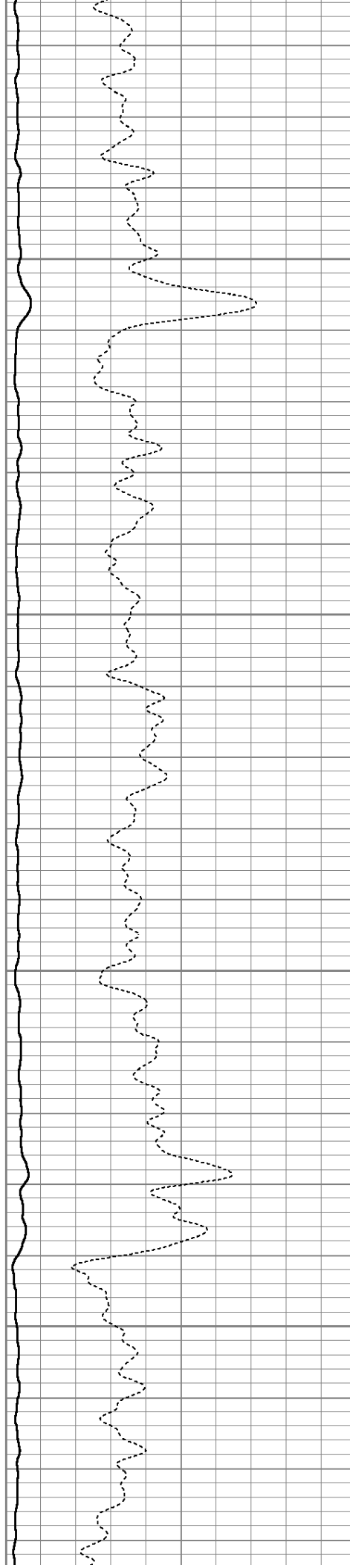


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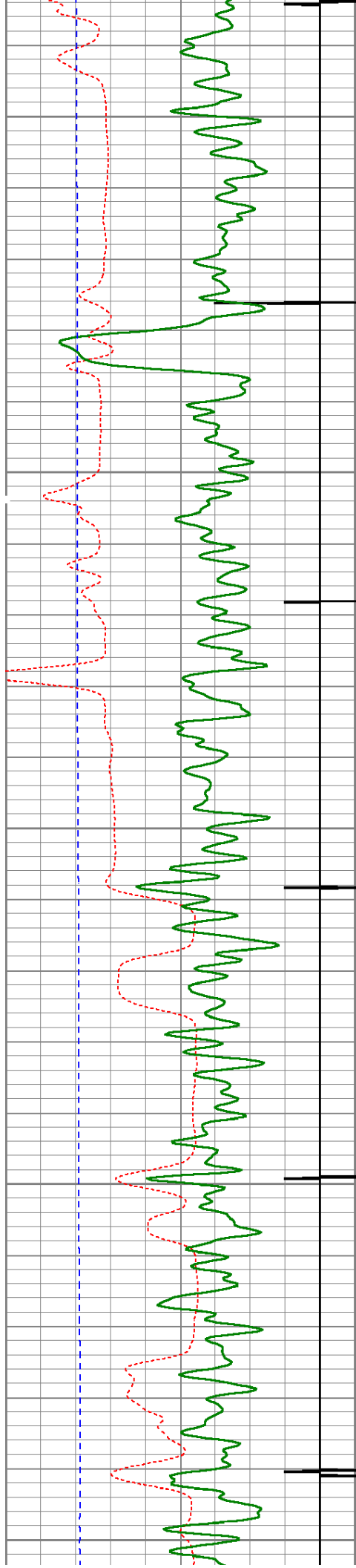
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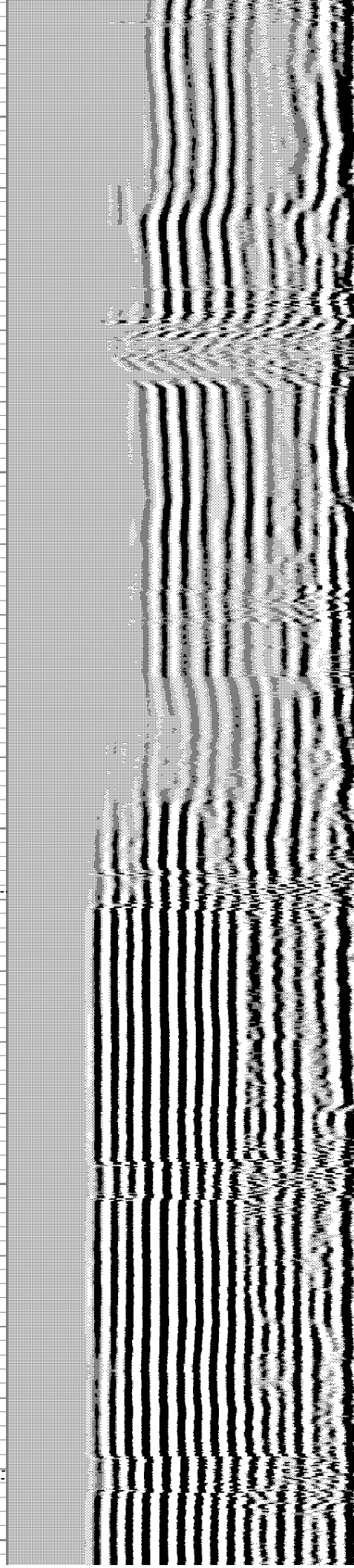
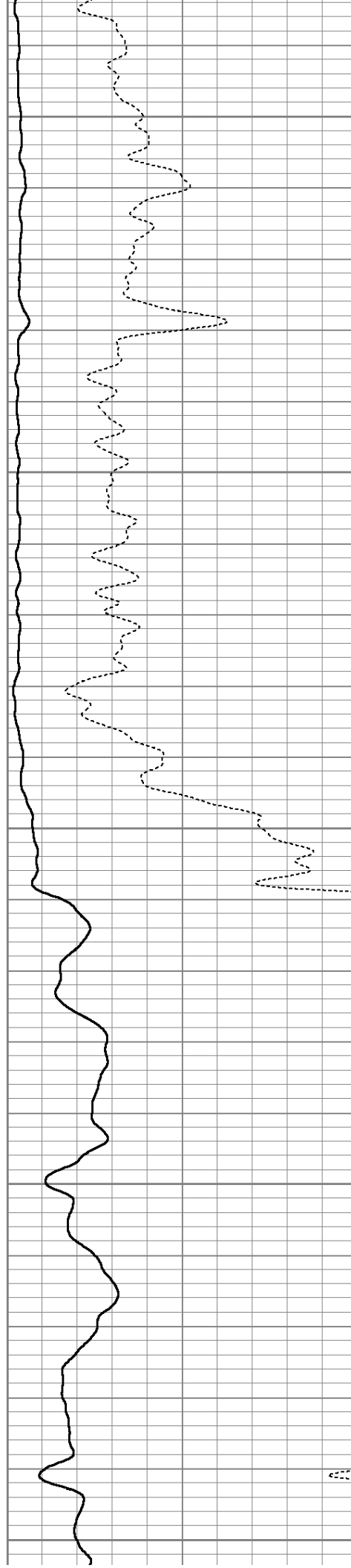
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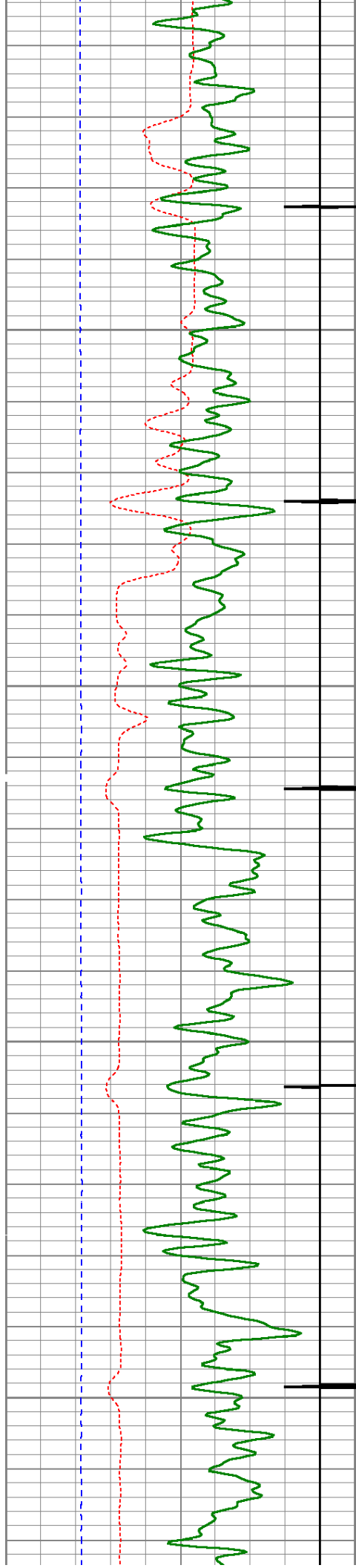
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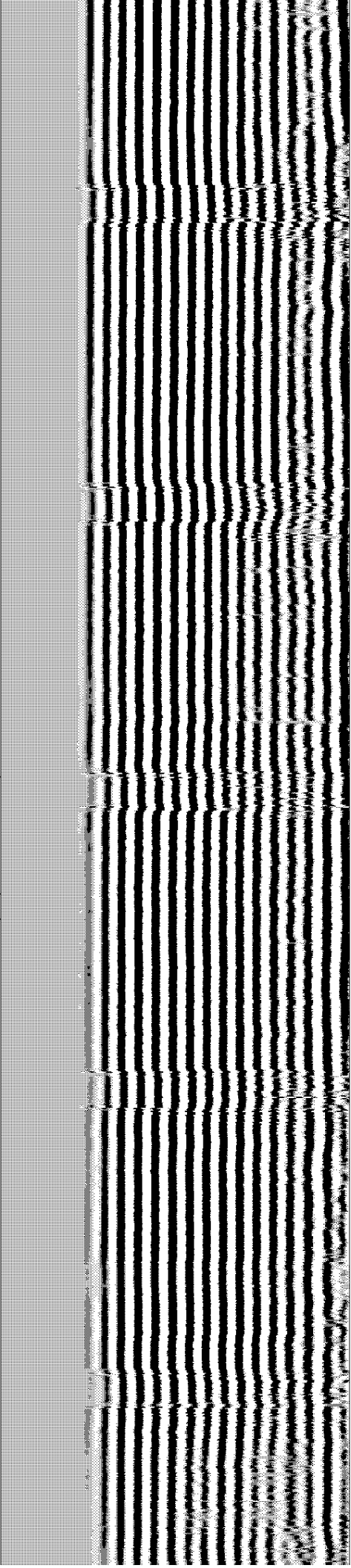
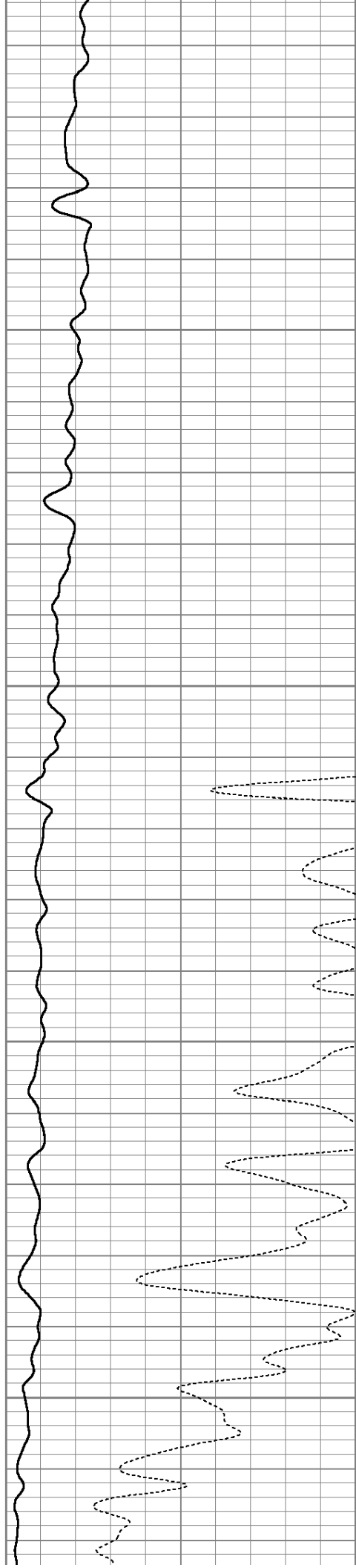


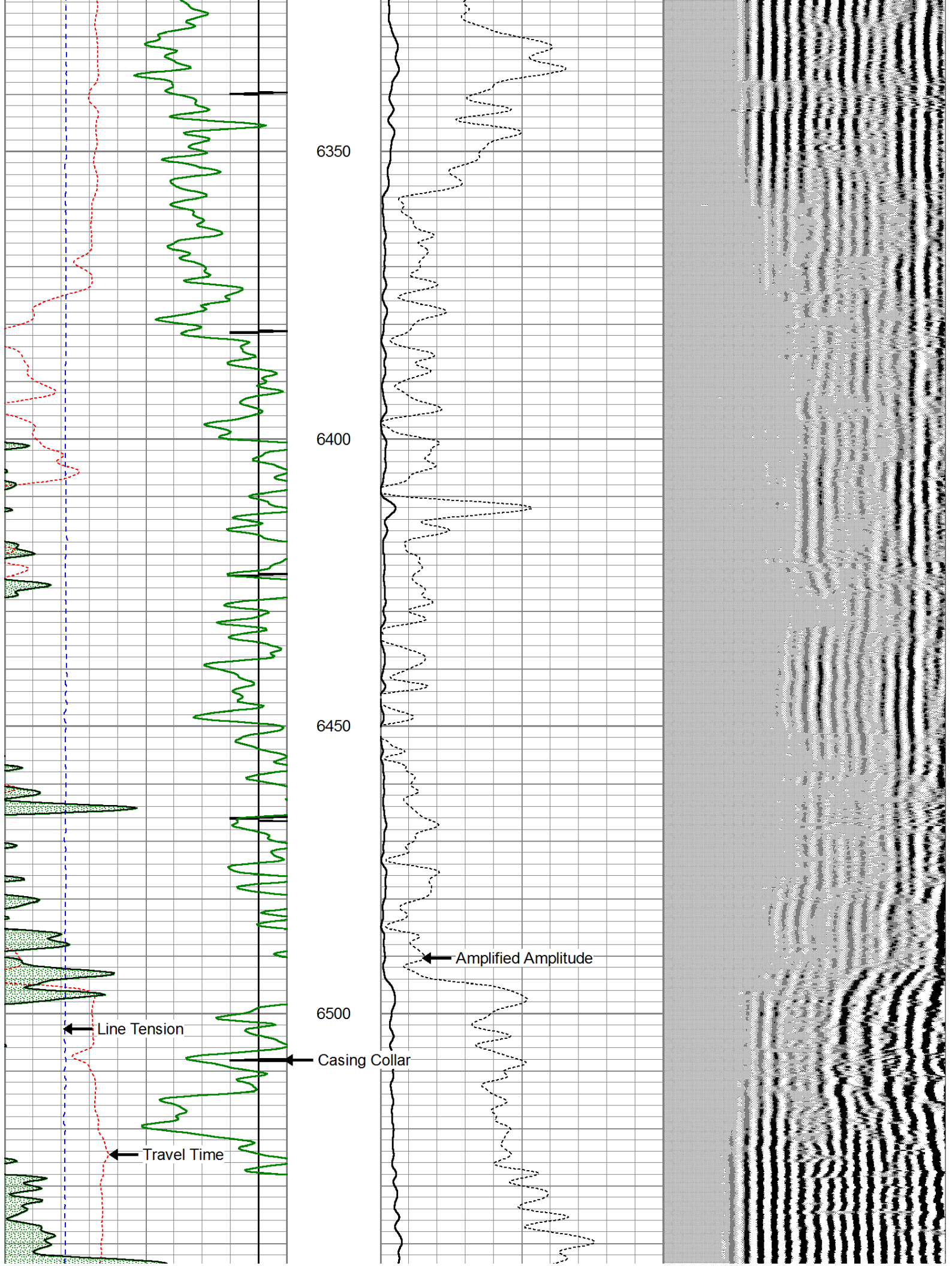
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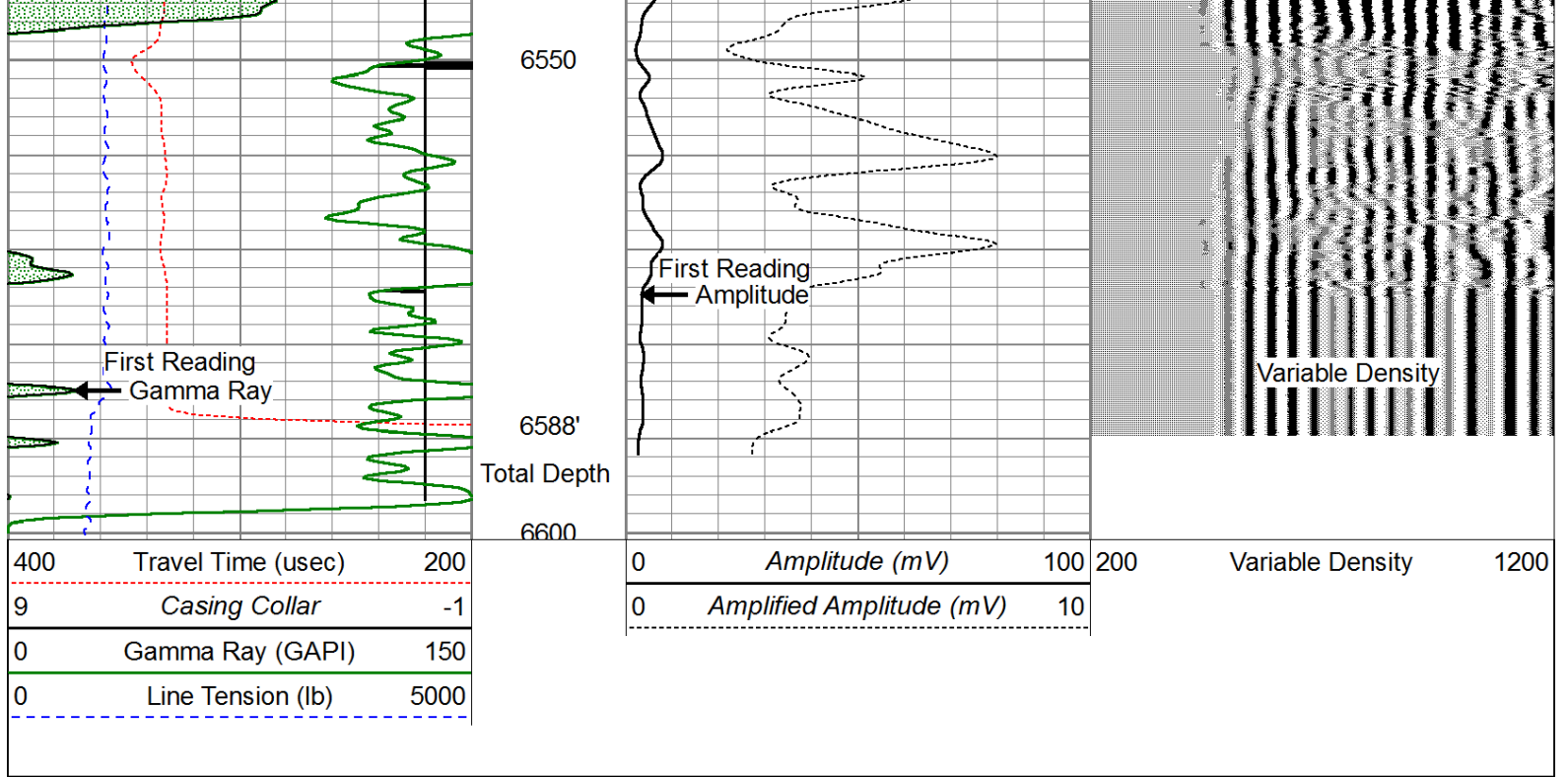
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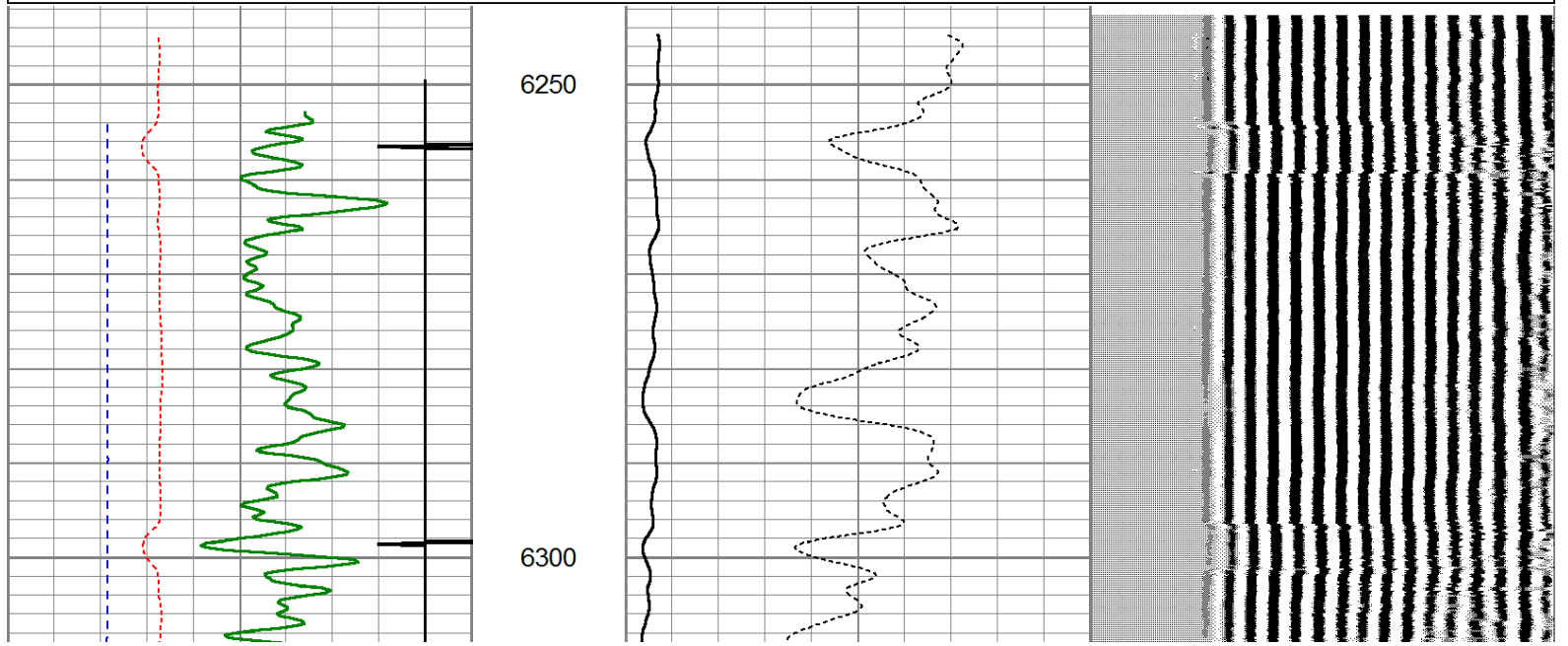
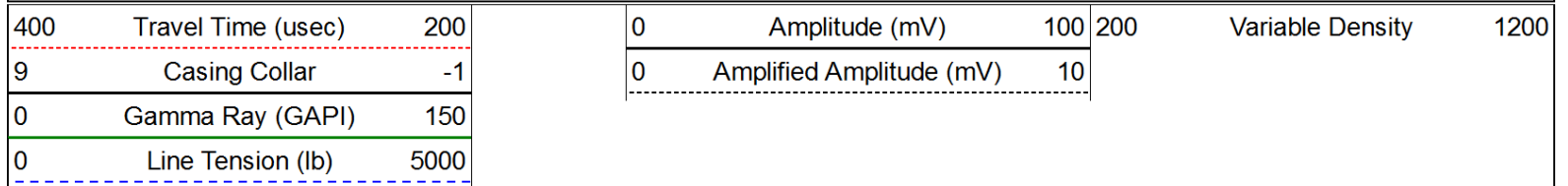


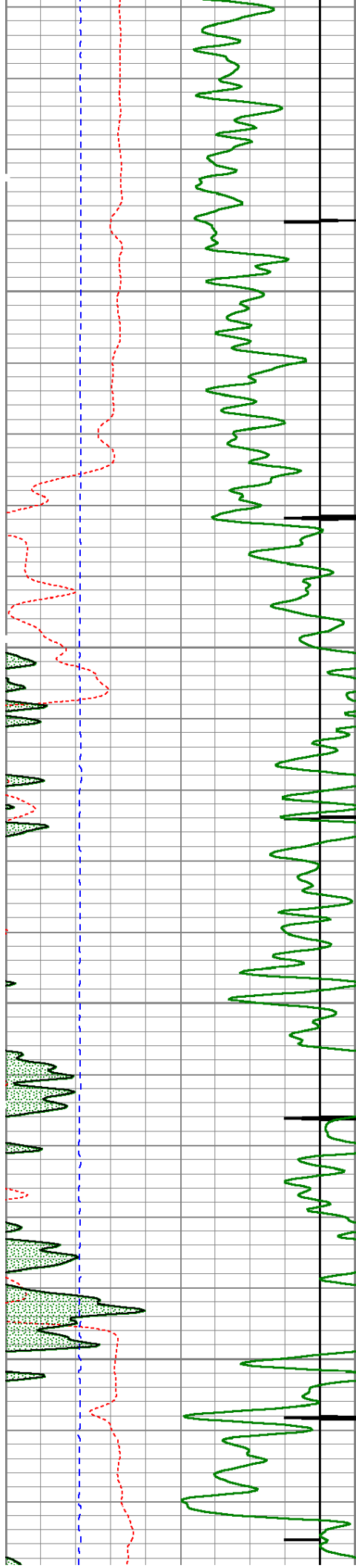




# Repeat Pass (0 PSI)

Database File: bonanza creek state seventy holes o-k-6hnb\_cbl.db  
 Dataset Pathname: pass3  
 Presentation Format: cblprobe  
 Dataset Creation: Sat Oct 05 13:02:16 2013 by Log SCH 120126  
 Charted by: Depth in Feet scaled 1:240



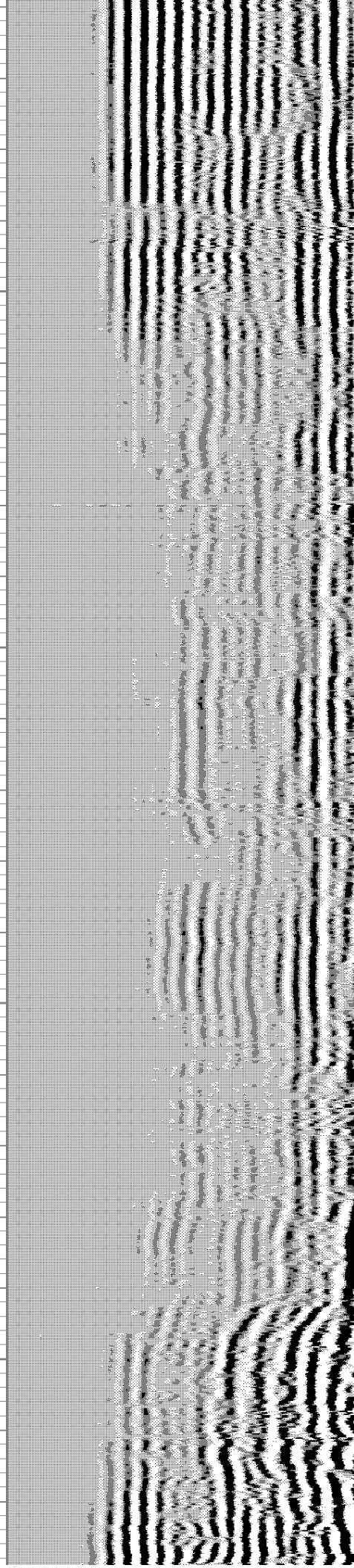
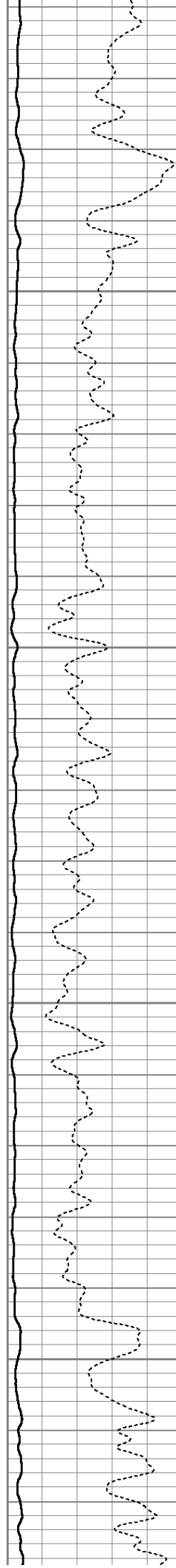


6350

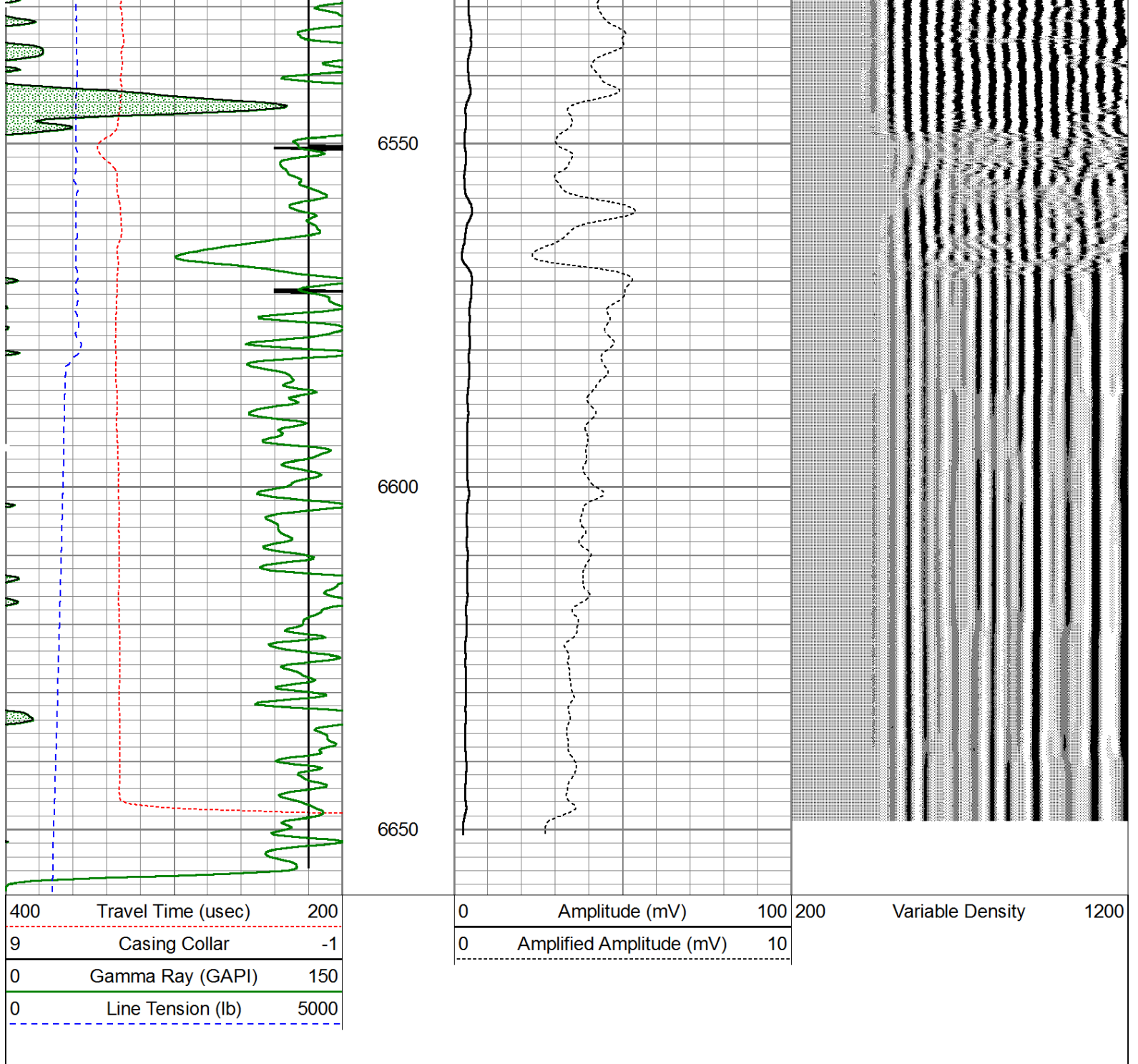
6400

6450

6500







#### Calibration Report

Database File: bonanza creek state seventy holes o-k-6hnb\_cbl.db  
 Dataset Pathname: pass5  
 Dataset Creation: Sat Oct 05 13:12:40 2013 by Log SCH 120126

#### Gamma Ray Calibration Report

Serial Number:	110108-Dig	
Tool Model:	Probe275	
Performed:	Wed Jul 10 19:14:22 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 Sep 29 11:21:21 2013

	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	1	

## Segmented Cement Bond Log Calibration Report

Serial Number: 101224  
Tool Model: Probe

Calibration Casing Diameter: 7.000 in  
Calibration Depth: 3107.770 ft

Master Calibration, performed Sat Oct 05 10:21:13 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.007	0.629	1.000	62.165	98.664	2.689
CAL	-0.016	1.131				
5'	-0.010	0.538	1.000	62.165	111.571	2.171
SUM						
S1	-0.001	0.674	0.000	100.000	148.124	0.170
S2	-0.007	0.638	0.000	100.000	155.122	1.085
S3	-0.011	0.602	0.000	100.000	163.230	1.795
S4	-0.012	0.598	0.000	100.000	163.981	1.892
S5	-0.012	0.599	0.000	100.000	163.706	1.970
S6	-0.011	0.614	0.000	100.000	159.757	1.835
S7	-0.014	0.646	0.000	100.000	151.496	2.069
S8	-0.011	0.643	0.000	100.000	152.867	1.638

Internal Reference Calibration, performed Wed Jul 10 20:06:34 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.016	1.131	1.000	0.000

Air Zero Calibration, performed Sat Oct 05 08:30:48 2013:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	-0.007	0.000	0.000
5'	-0.007	0.000	-0.003
SUM			
S1	0.007	0.000	-0.008
S2	-0.004	0.000	-0.003
S3	-0.008	0.000	-0.003
S4	-0.006	0.000	-0.006
S5	-0.007	0.000	-0.006
S6	-0.007	0.000	-0.005
S7	-0.007	0.000	-0.006
S8	-0.007	0.000	-0.004





Total Weight:	197.00 lb
O.D.	2.75 in