



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

Company		Bonanza Creek Energy					
Well		State North Platte 24-21-26 HNC					
Field		Wattenberg					
County		Weld					
State		Colorado					
Location:		API # : 05-123-38307					
SEC 26 TWP 5N RGE 63W		Other Services NONE					
Permanent Datum		Ground Level		Elevation			
Log Measured From		Kelly Bushing 17' APD		4550'			
Drilling Measured From		Kelly Bushing		K.B. 4567' D.F. 4566' G.L. 4550'			
Date	December 27, 2013						
Run Number	1						
Depth Driller	10955'						
Depth Logger	6366'						
Bottom Logged Interval	6352'						
Top Log Interval	Surface						
Open Hole Size	8.75						
Type Fluid	Fresh Water						
Density / Viscosity	8.33						
Max. Recorded Temp.	N/A						
Estimated Cement Top	300'						
Time Well Ready	0830						
Time Logger on Bottom	0900						
Equipment Number	13033						
Location	Brighton						
Recorded By	R.Grisson						
Witnessed By	K. Dodge						
Borehole Record		Tubing Record					
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	7"	26#		0	6619'		
Production String	4 1/2"	11 6#		6519'	10955'		
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 17' Kelly Bushing

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



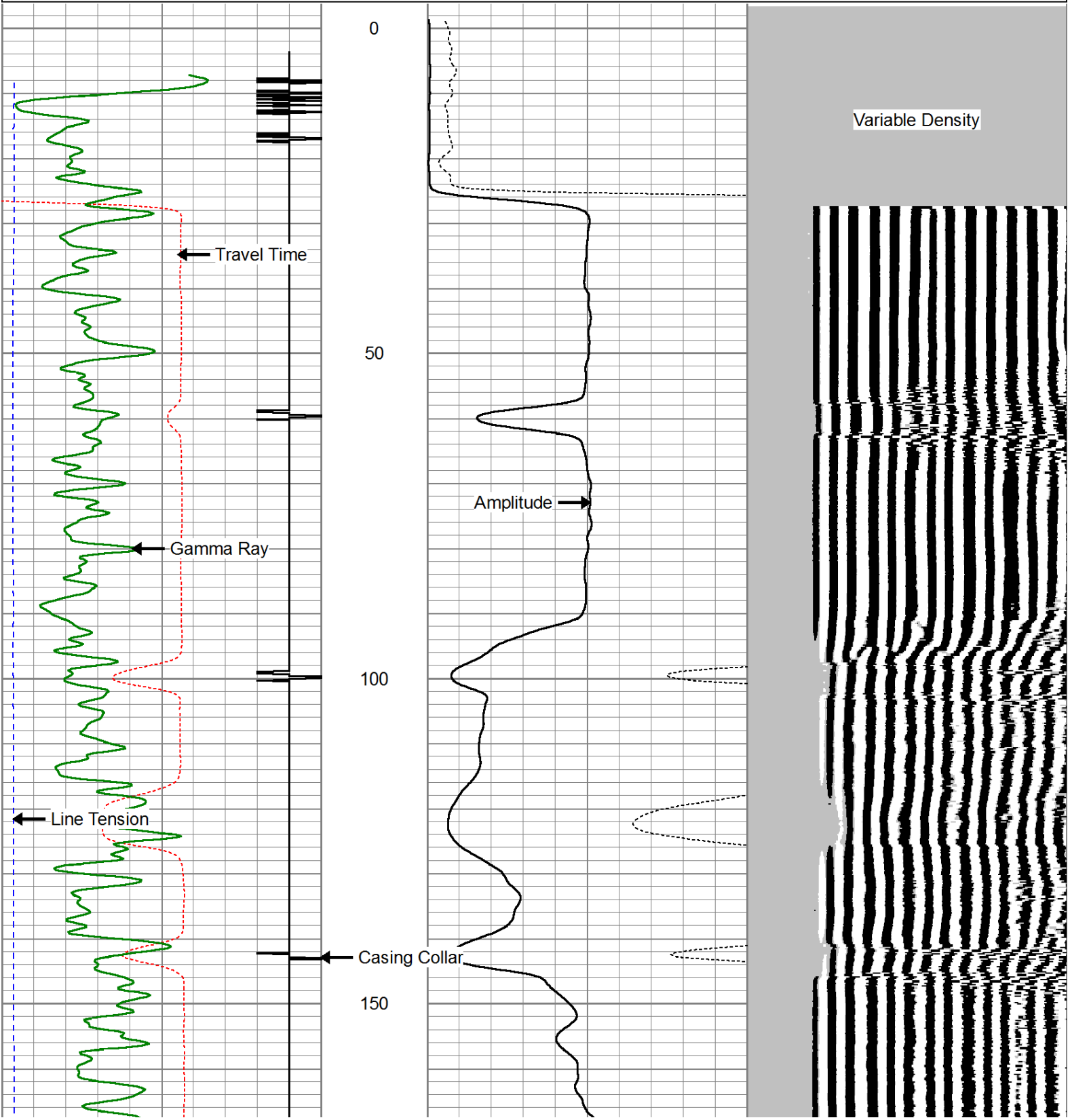
Main Pass (0 PSI)

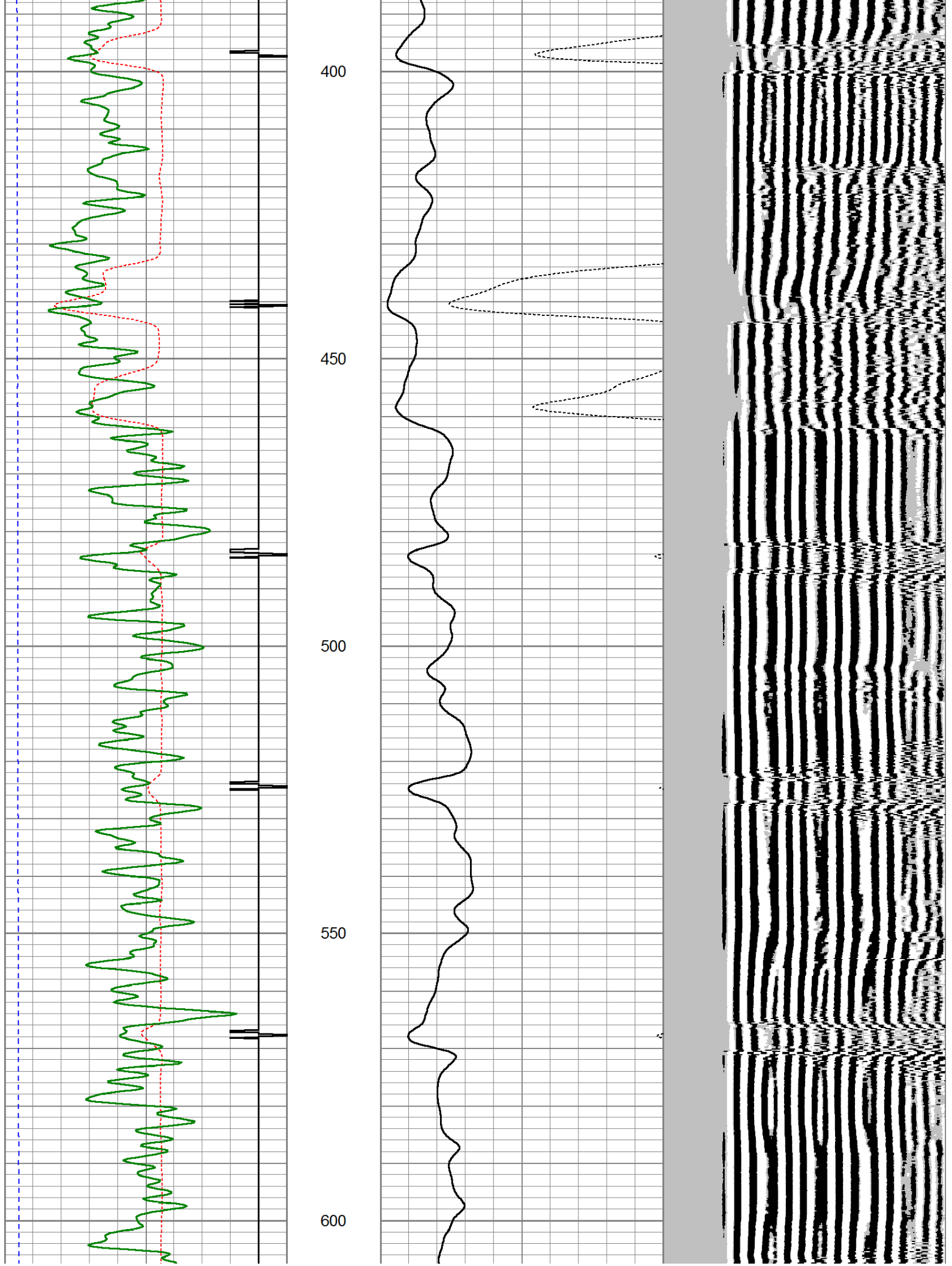
Database File: bonanza creek state north platte 24-21-26 hnc_cbl.db
Dataset Pathname: pass4
Presentation Format: cblprobe
Dataset Creation: Fri Dec 27 09:04:33 2013 by Log 0
Charted by: Depth in Feet scaled 1:240

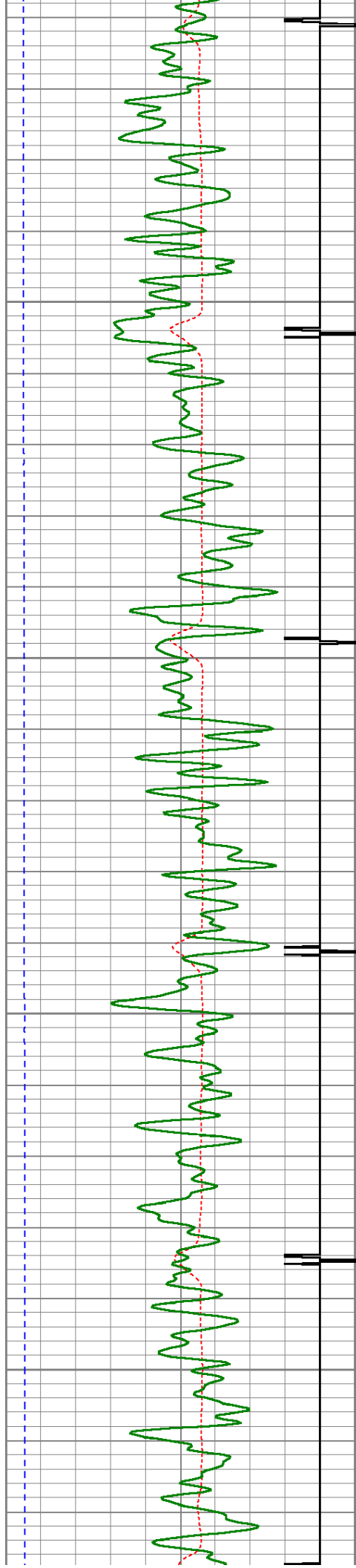
400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	10

200 Variable Density 1200





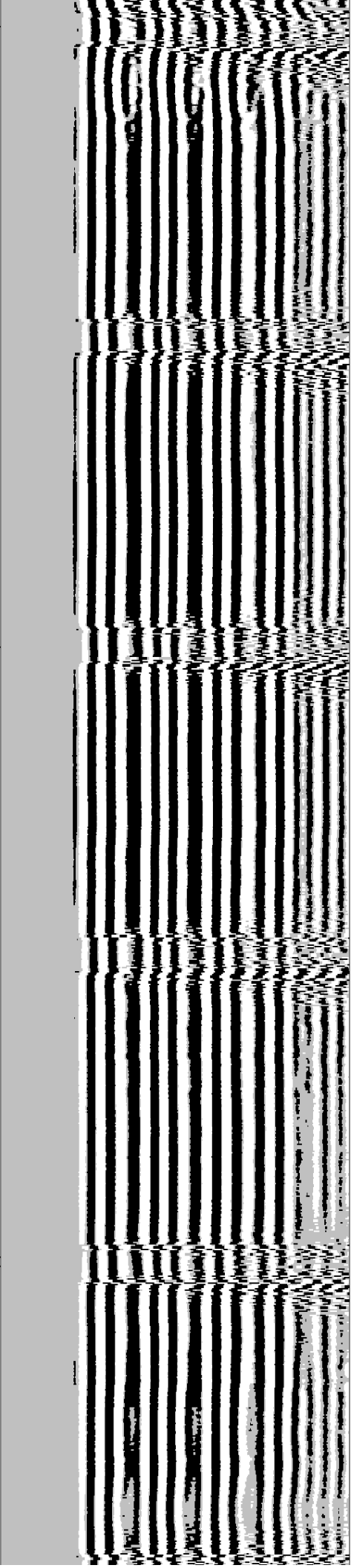
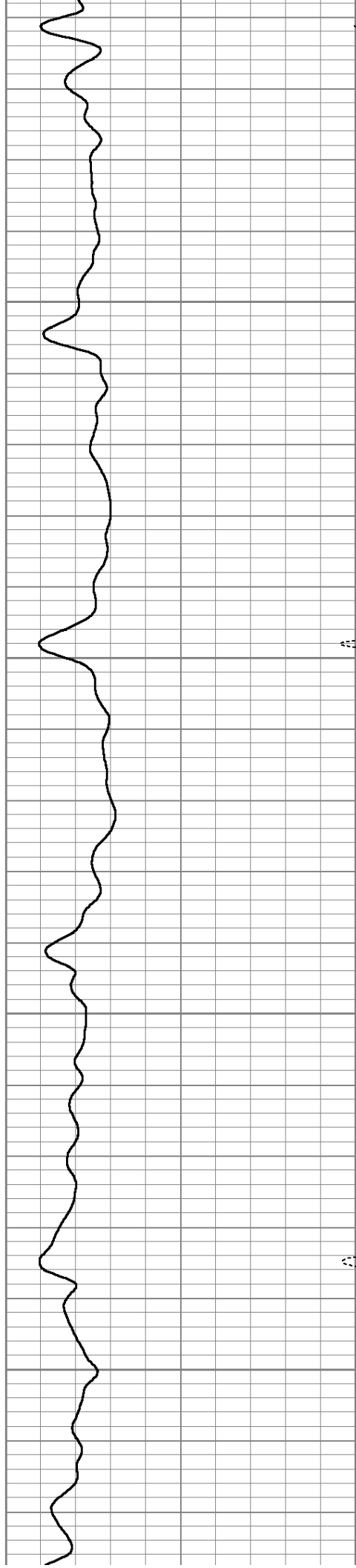


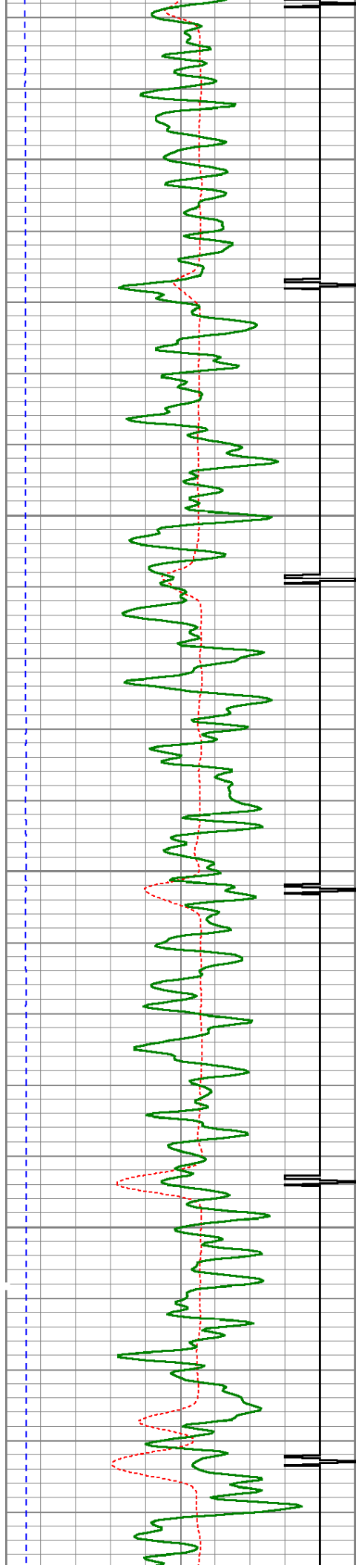
650

700

750

800



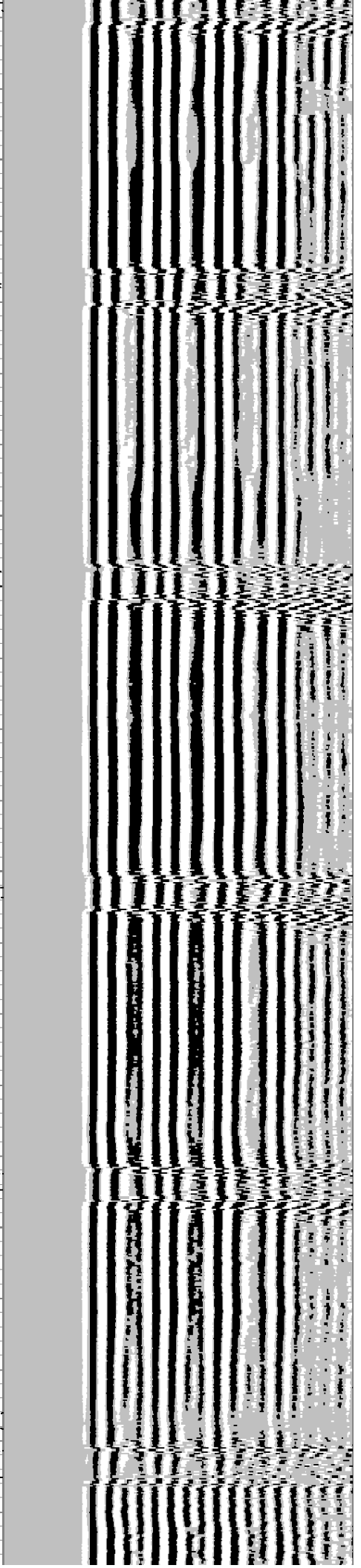
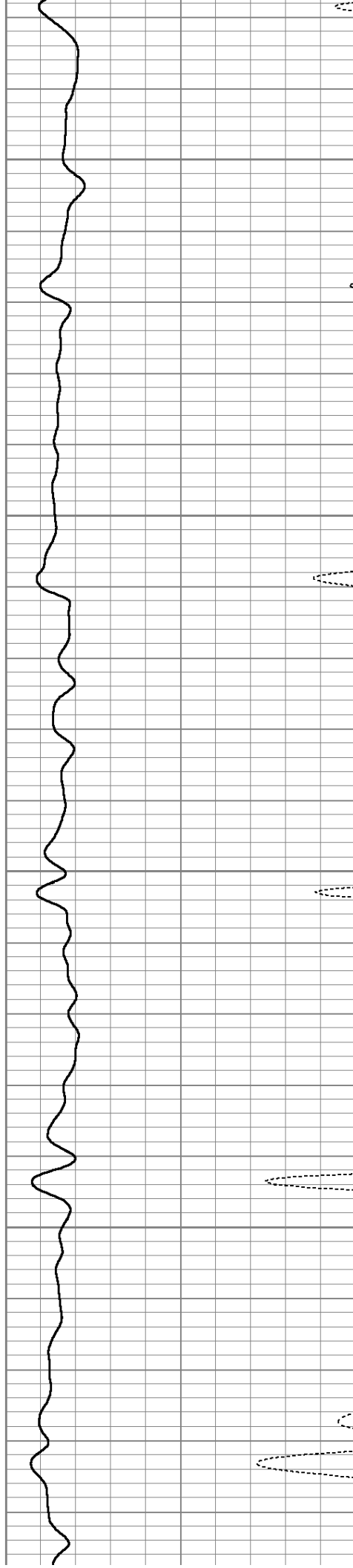


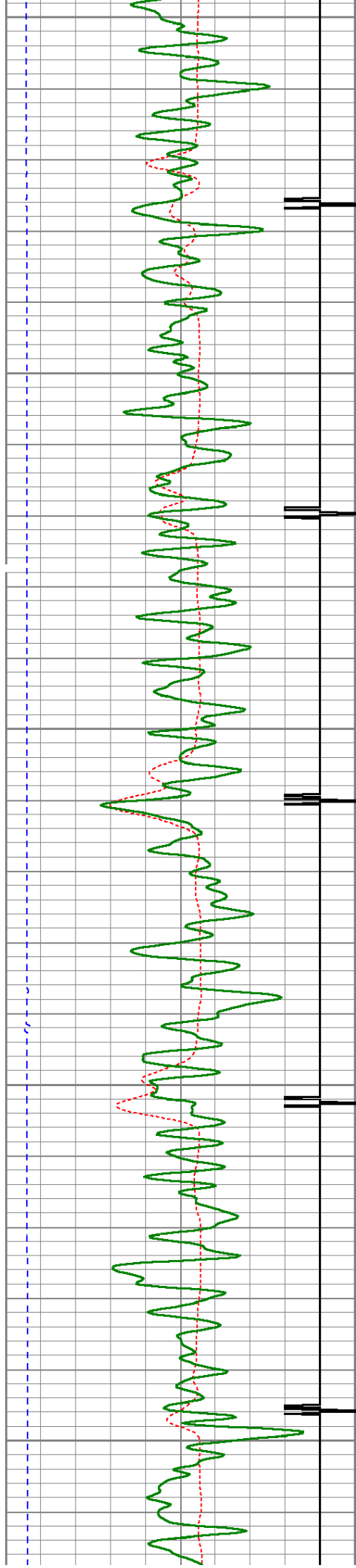
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900

950

1000





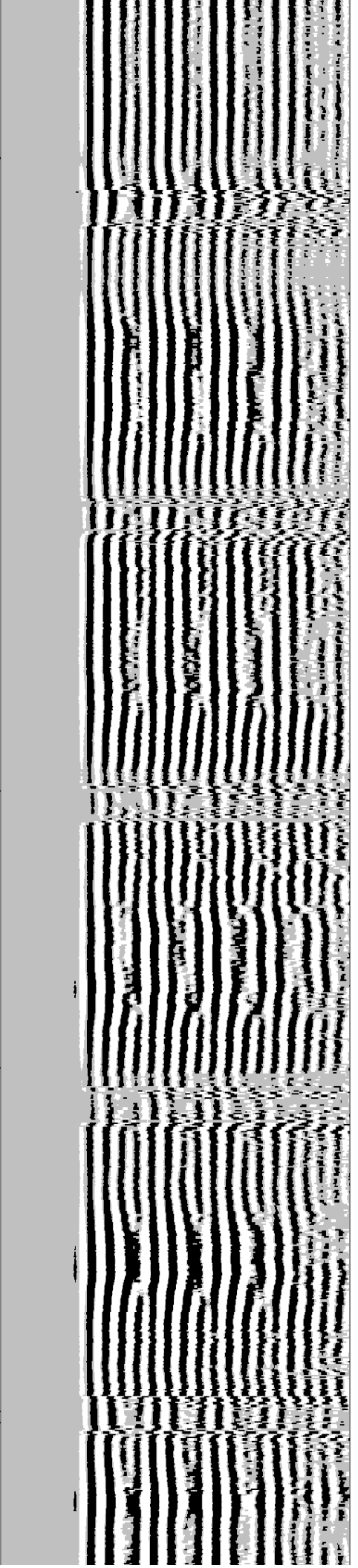
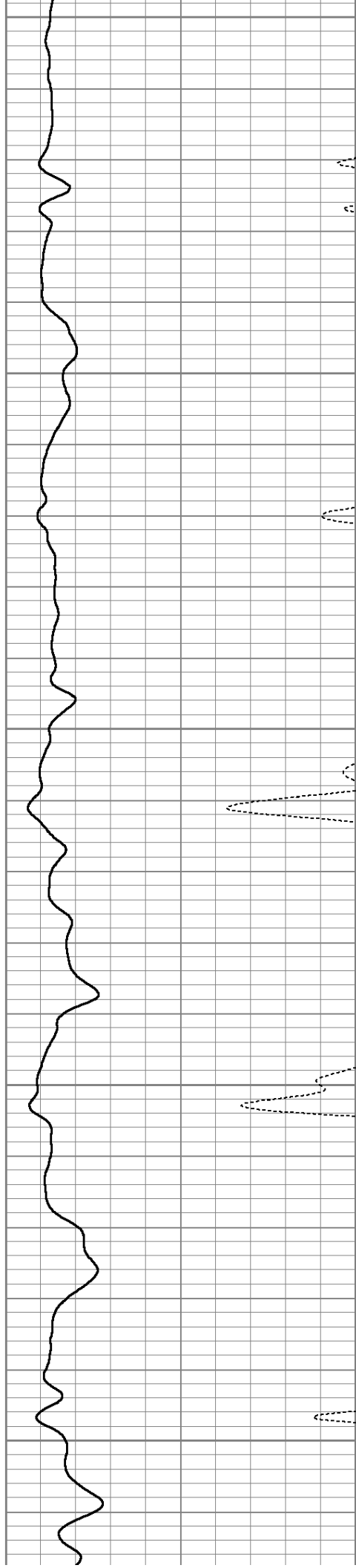
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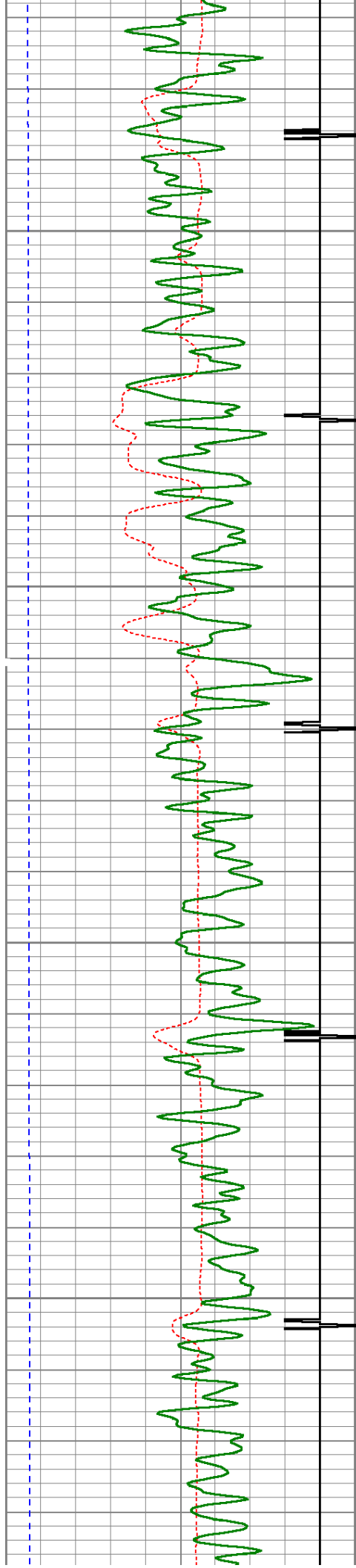
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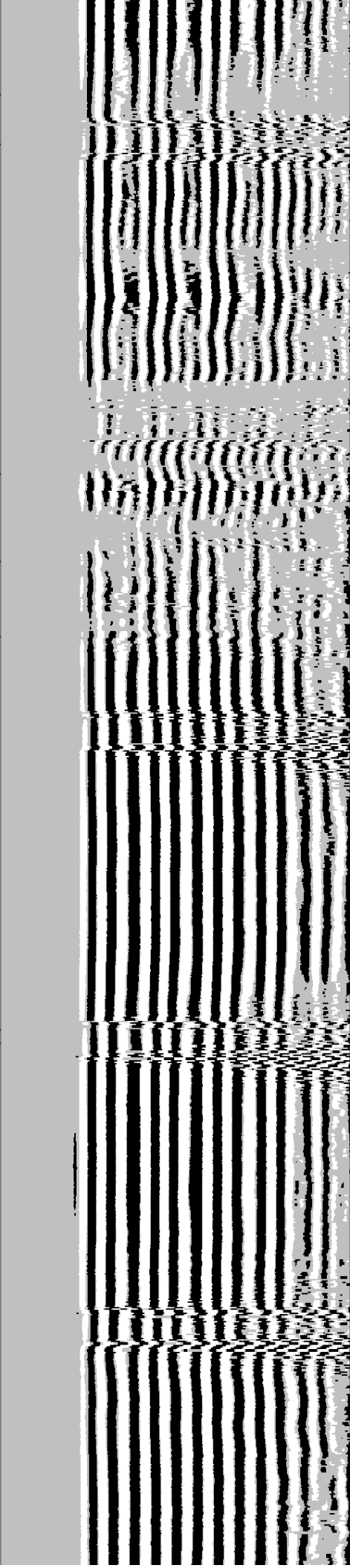
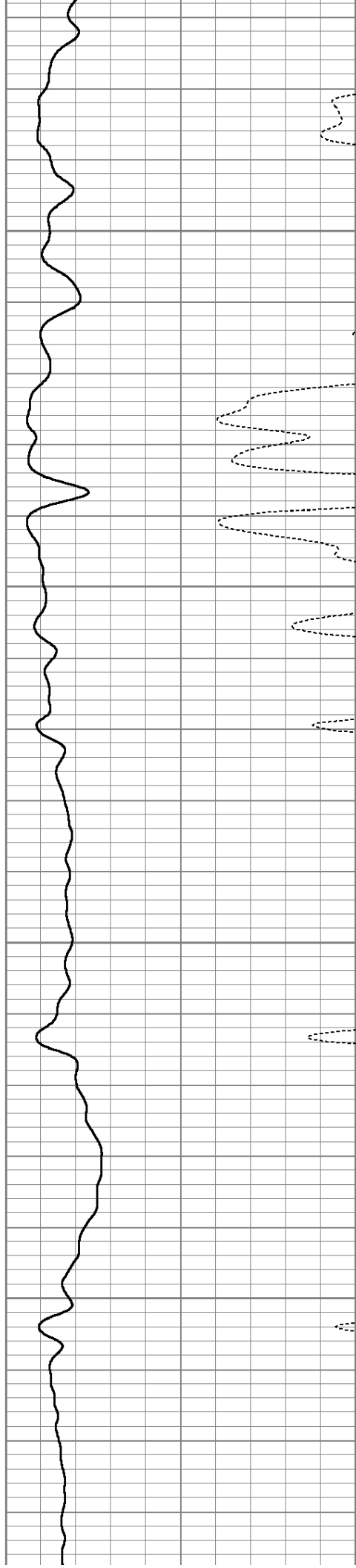


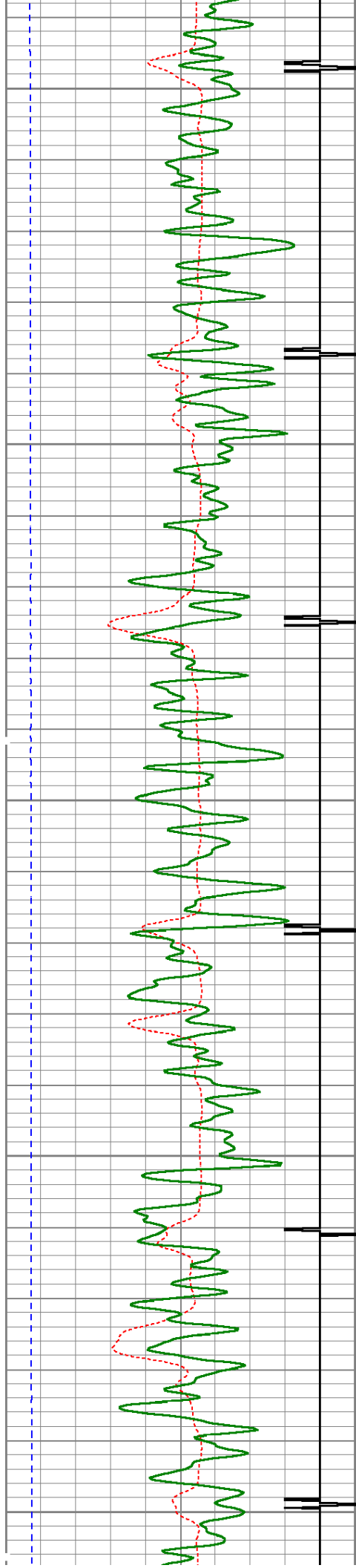
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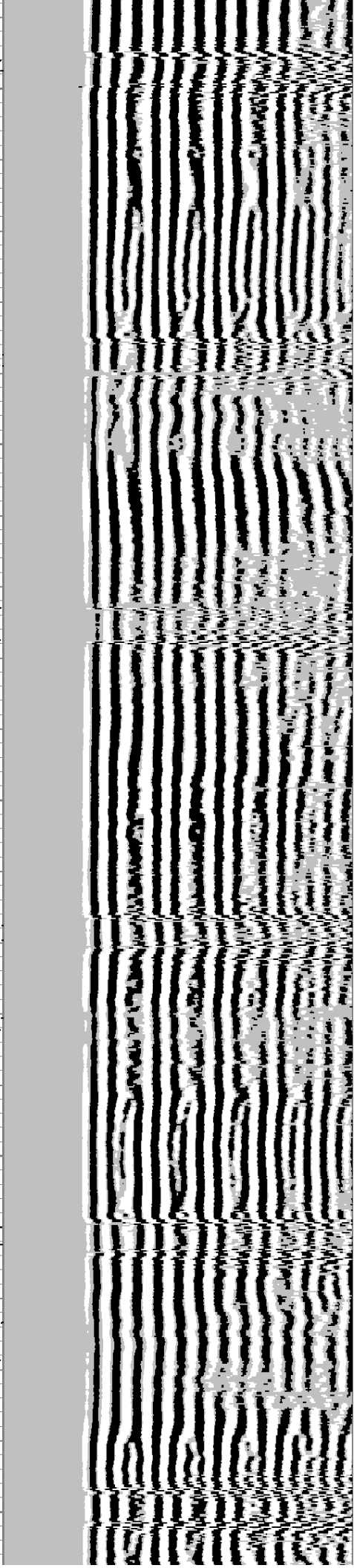
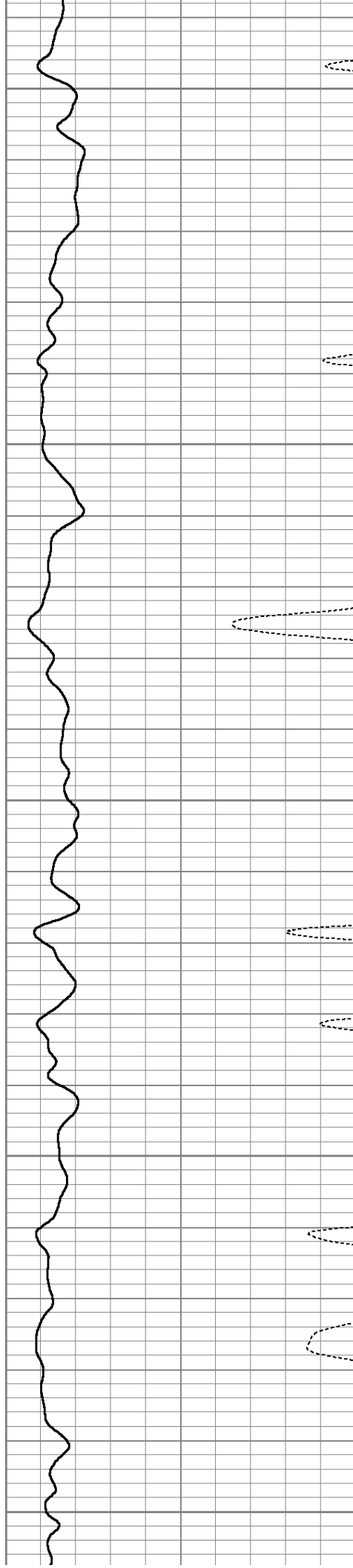
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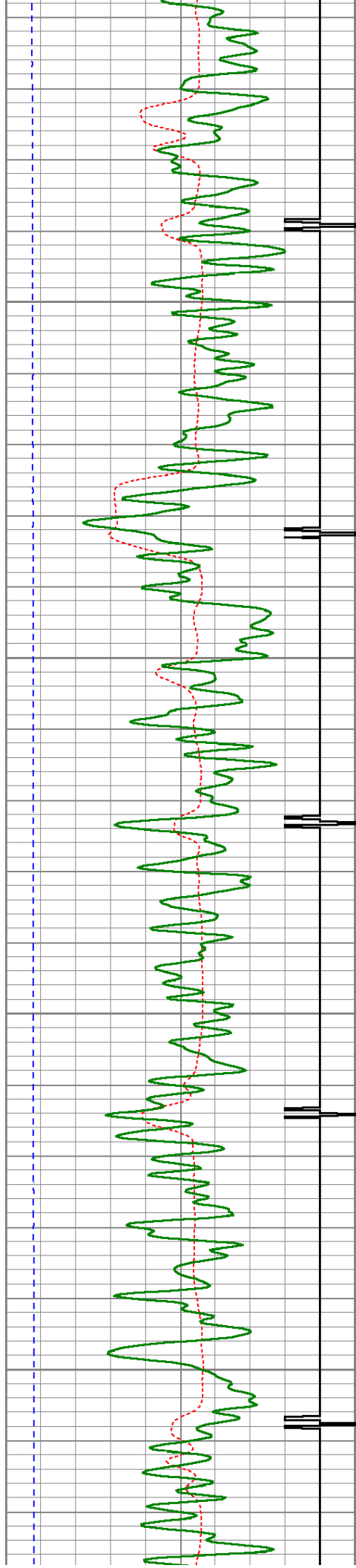
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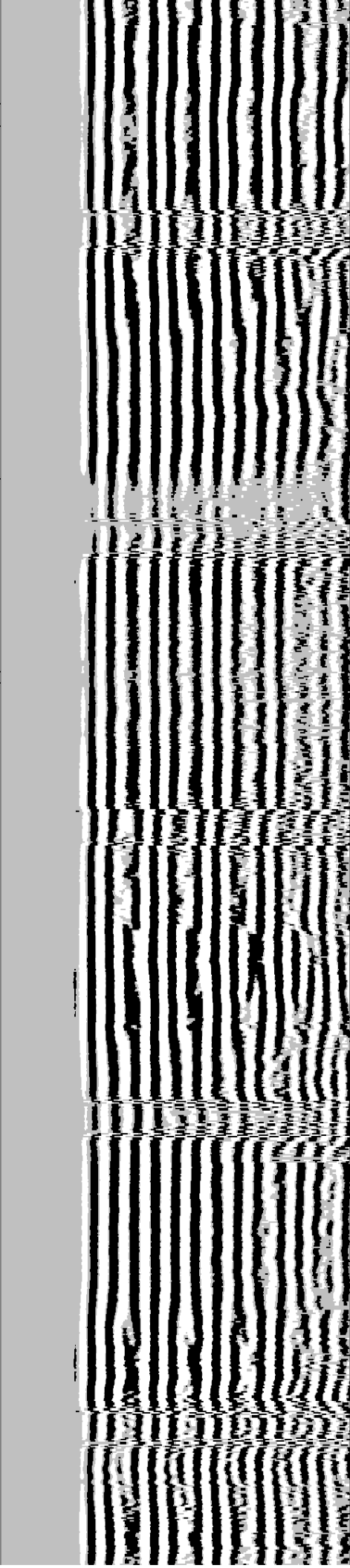
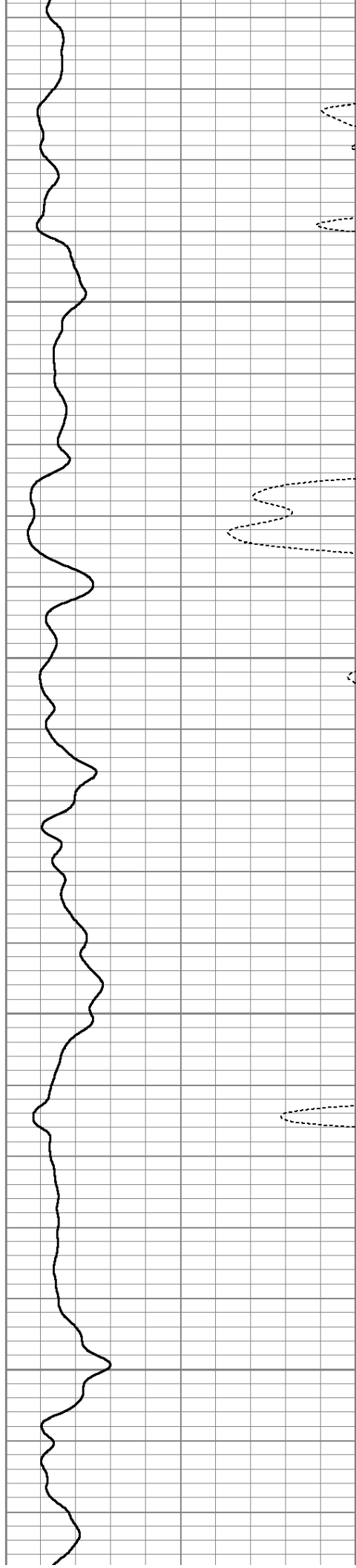


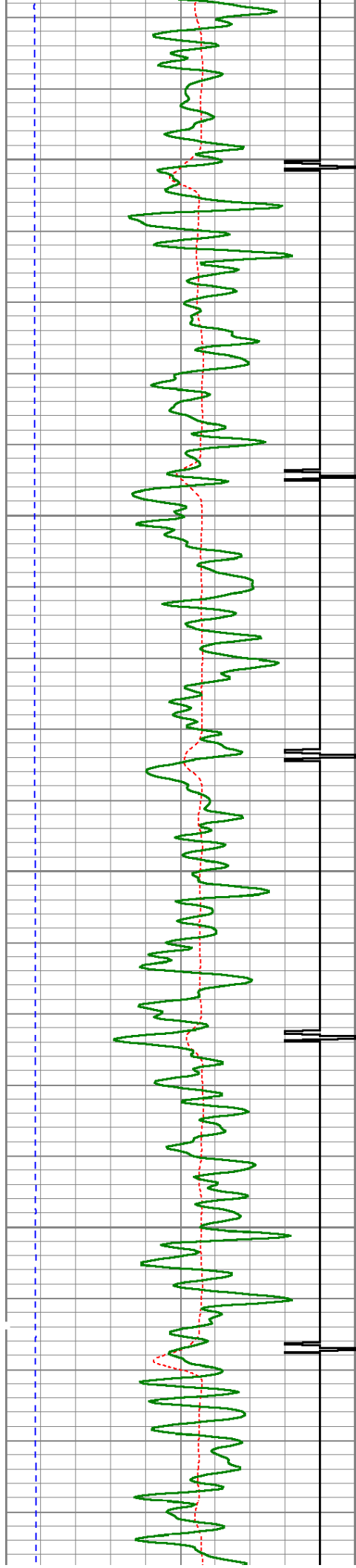
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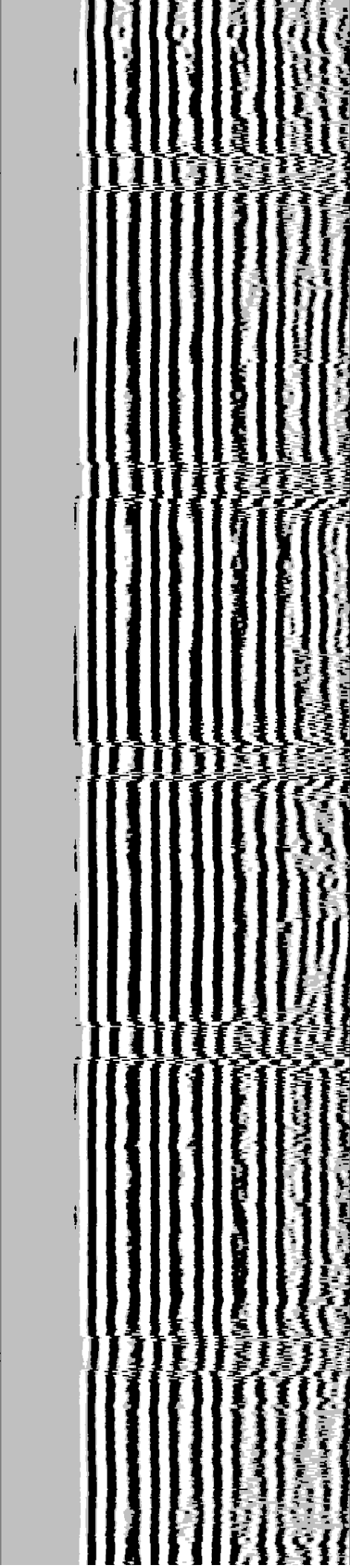
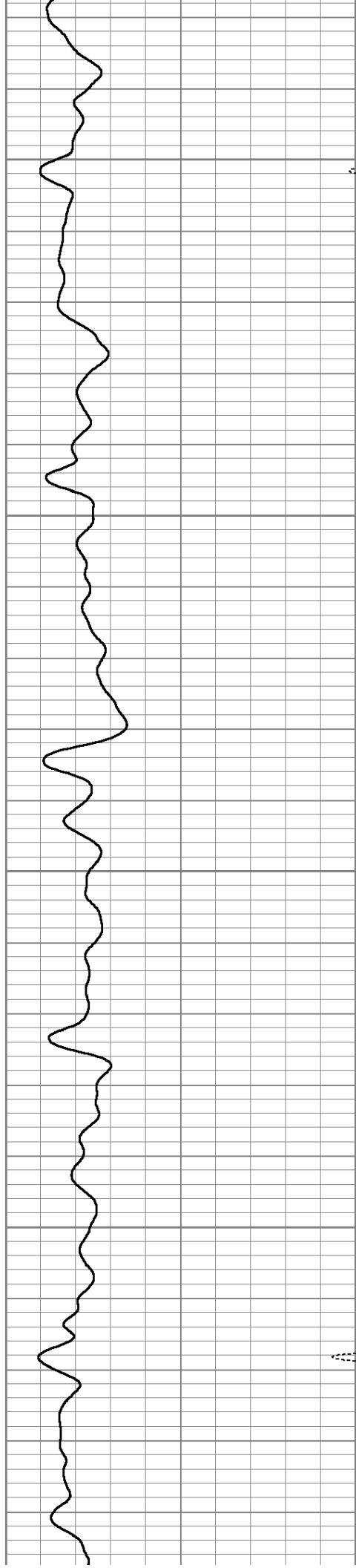


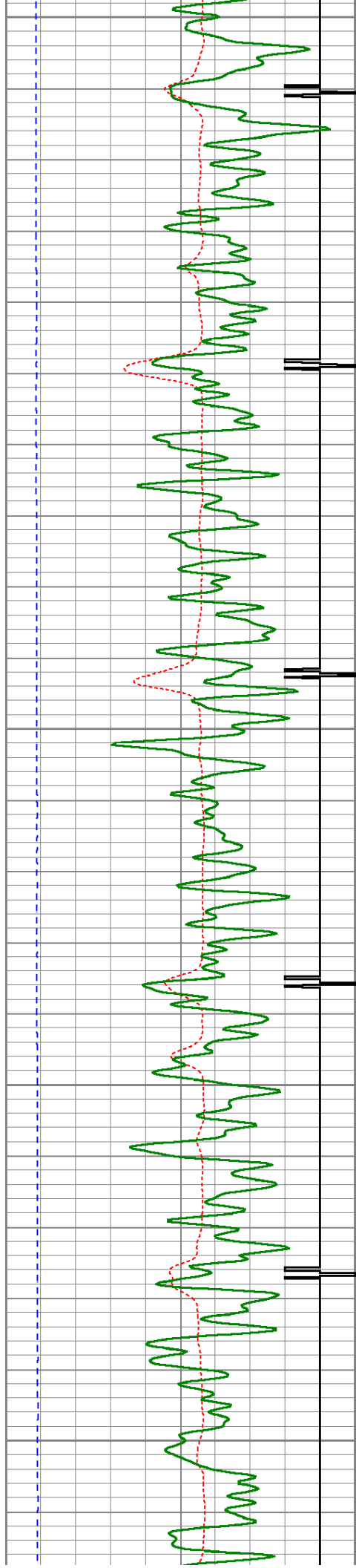
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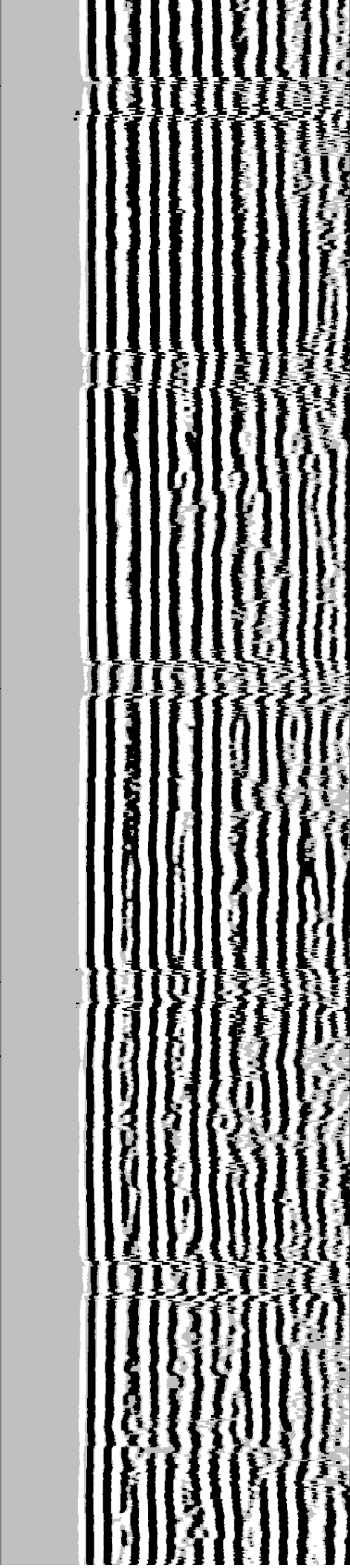
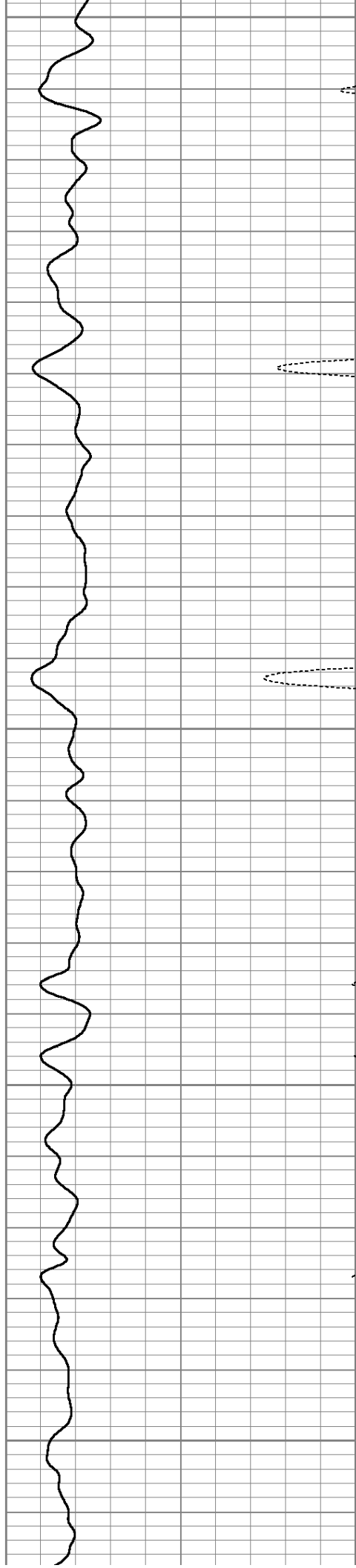
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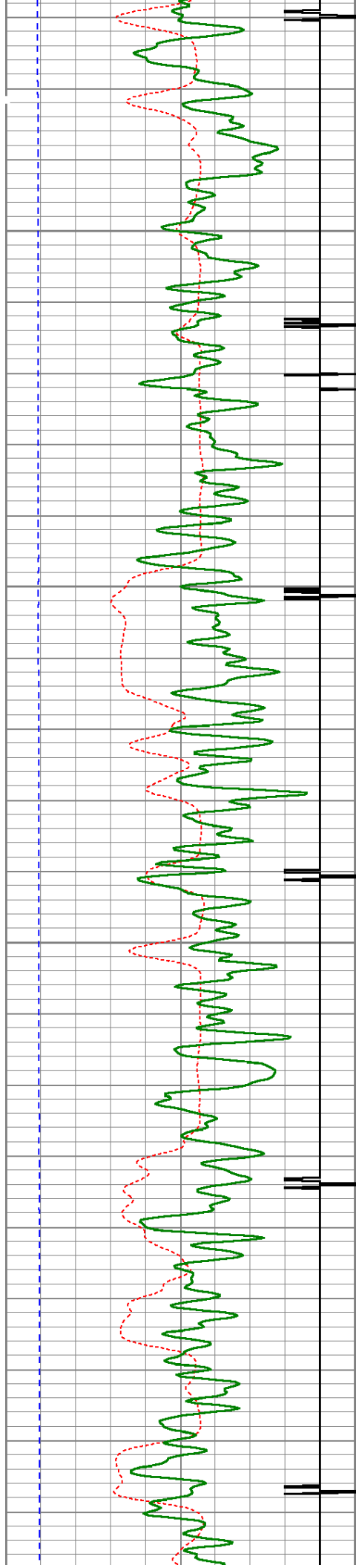
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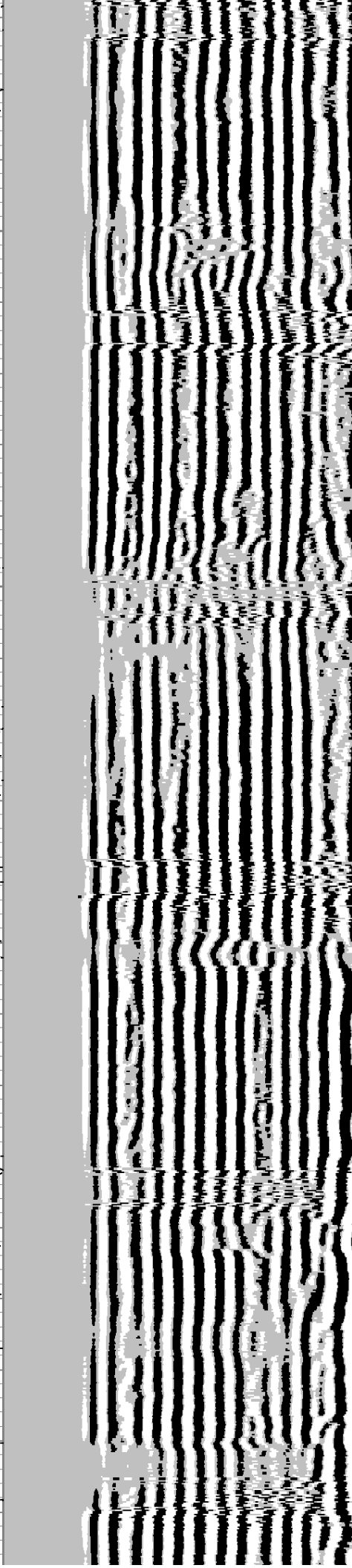
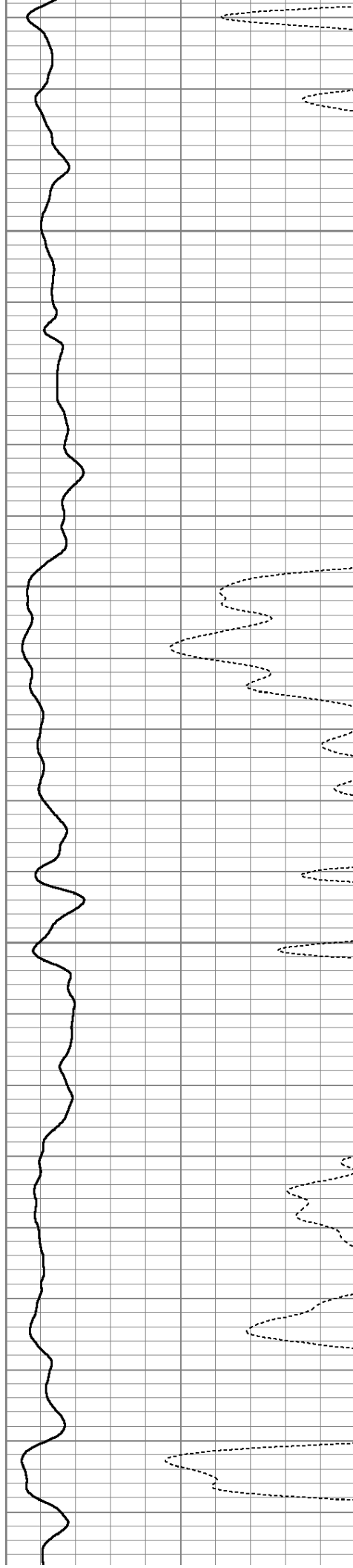


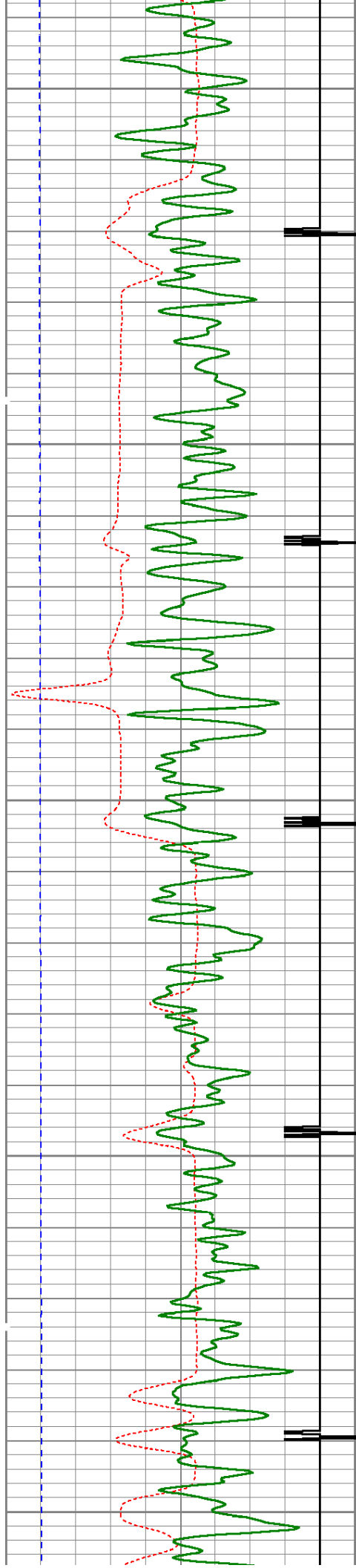
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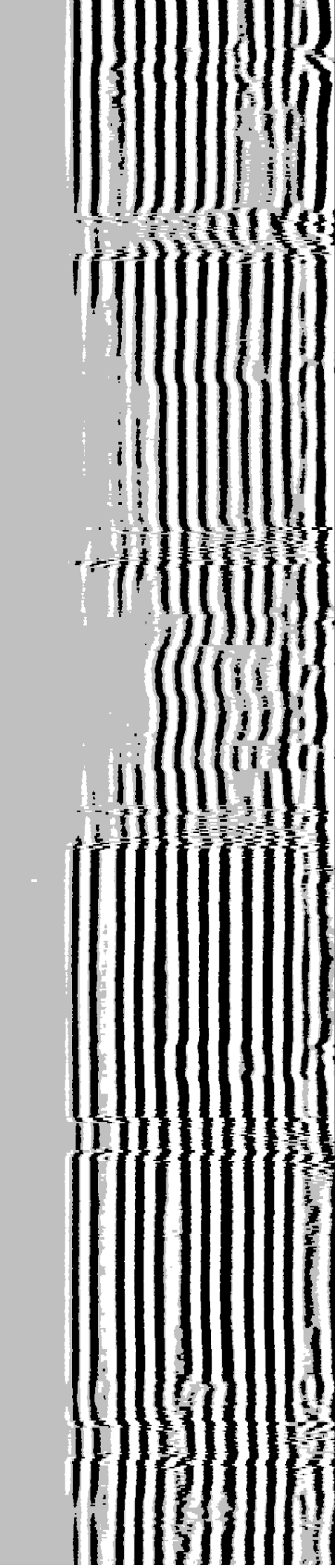
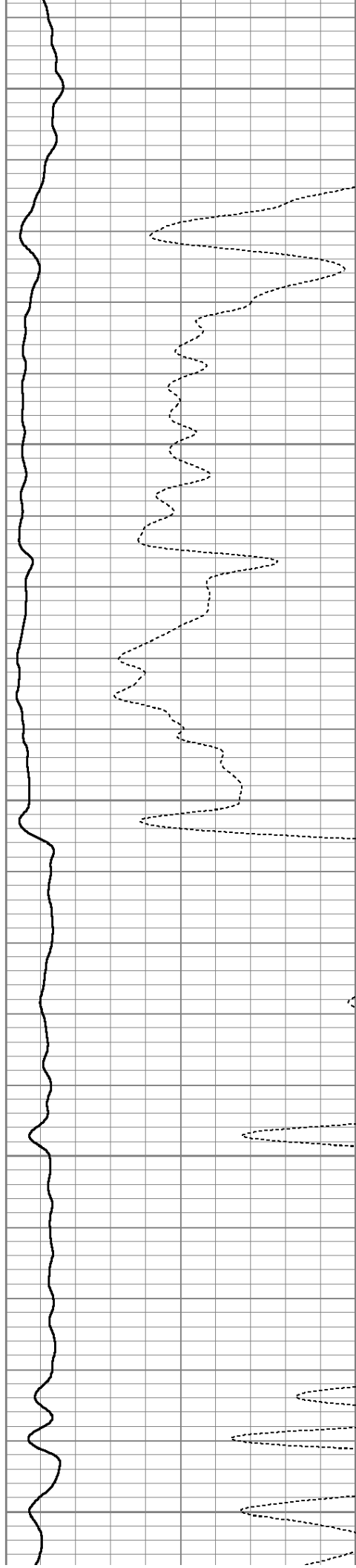
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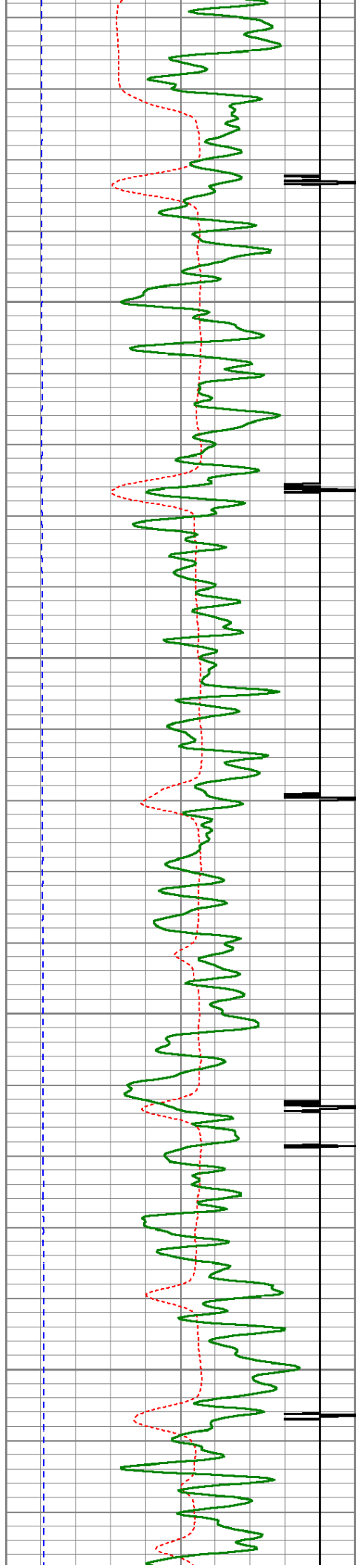
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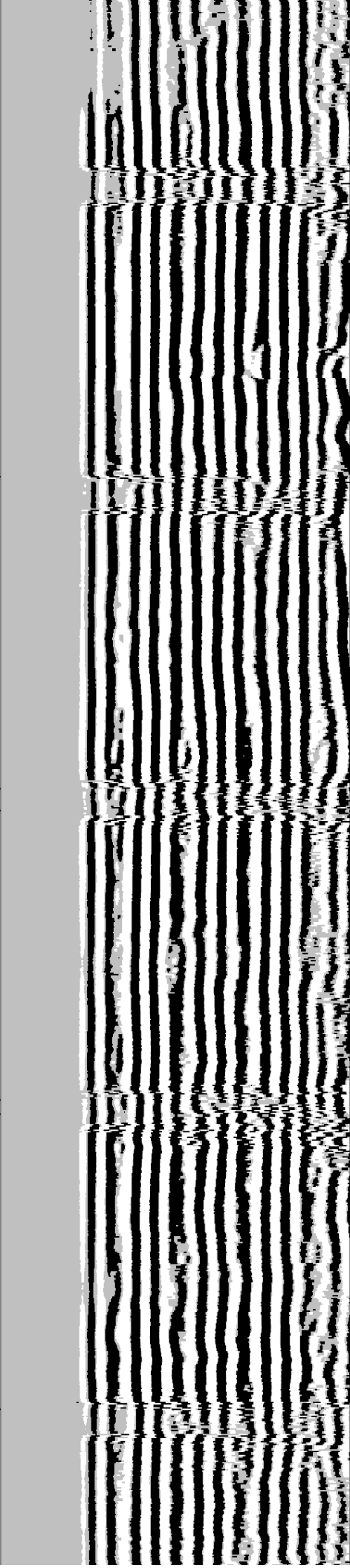
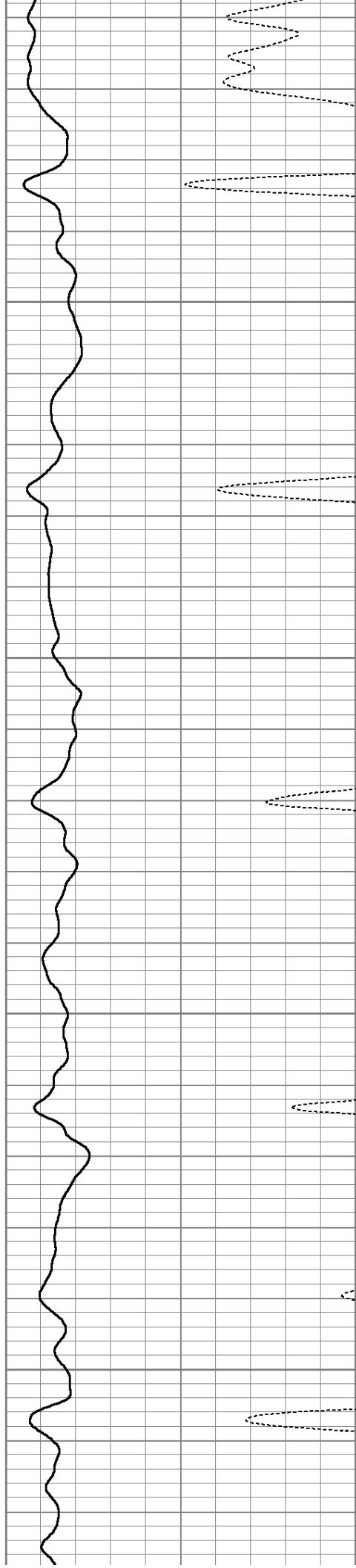


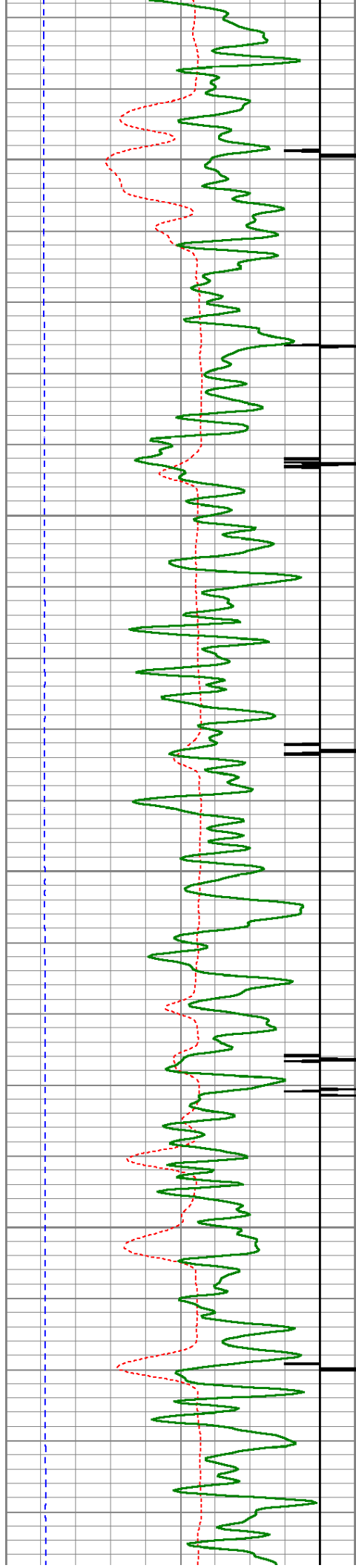
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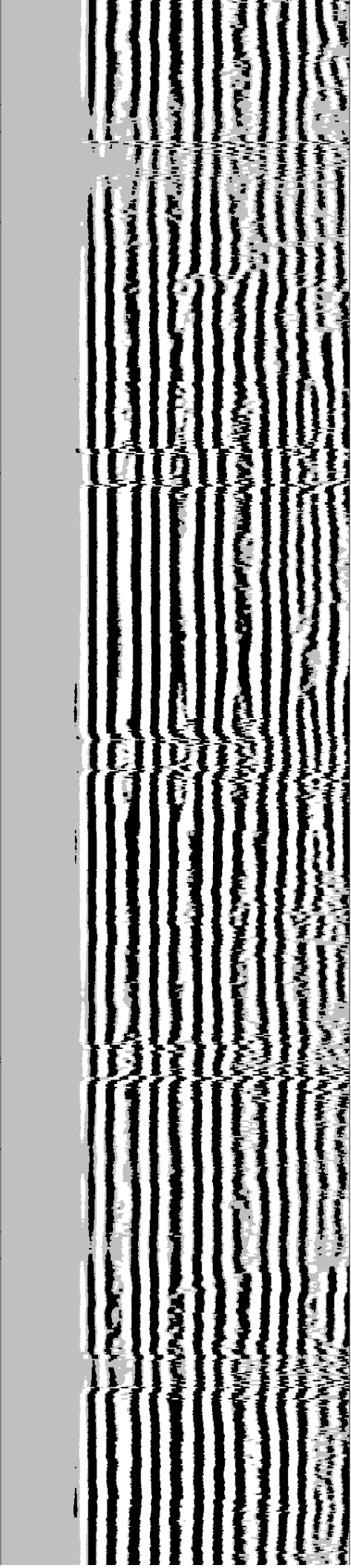
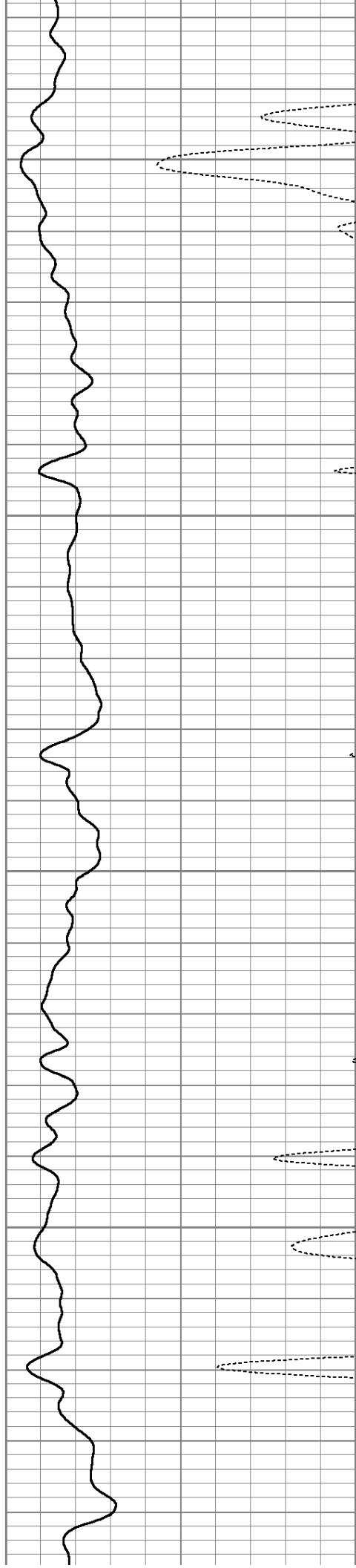


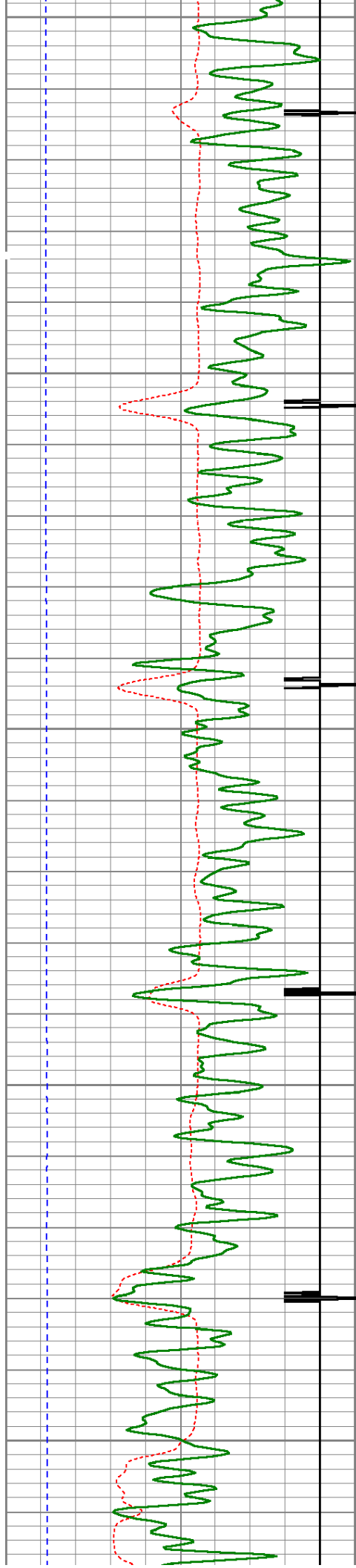
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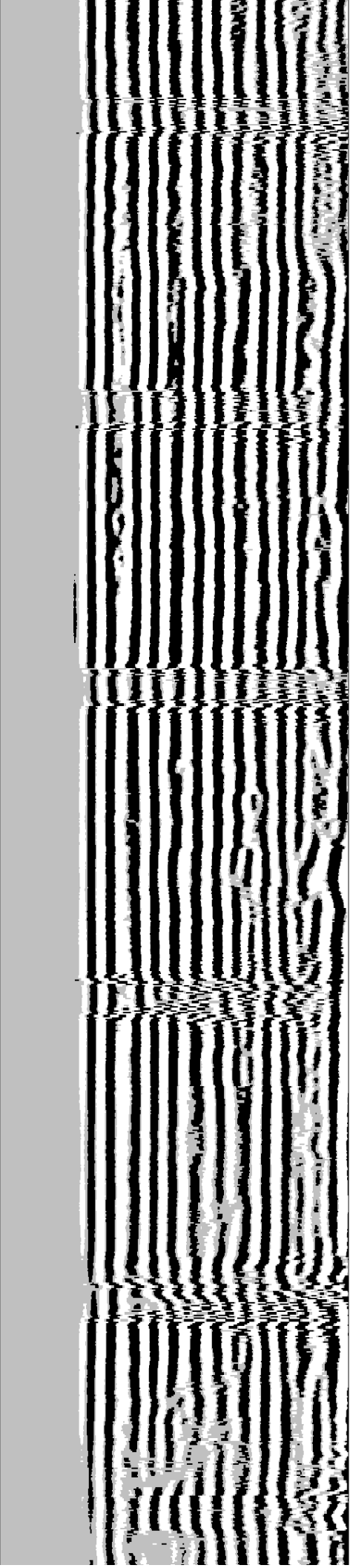
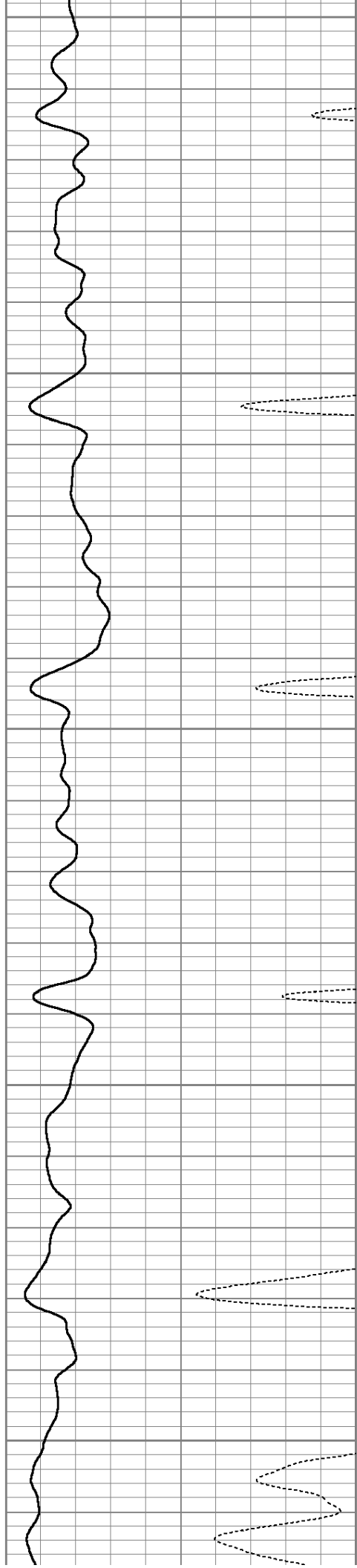
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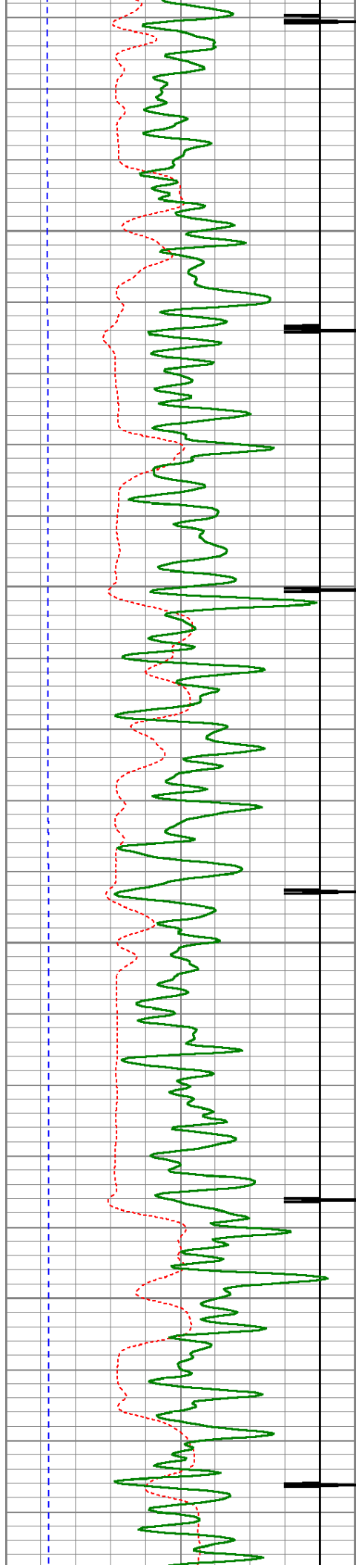
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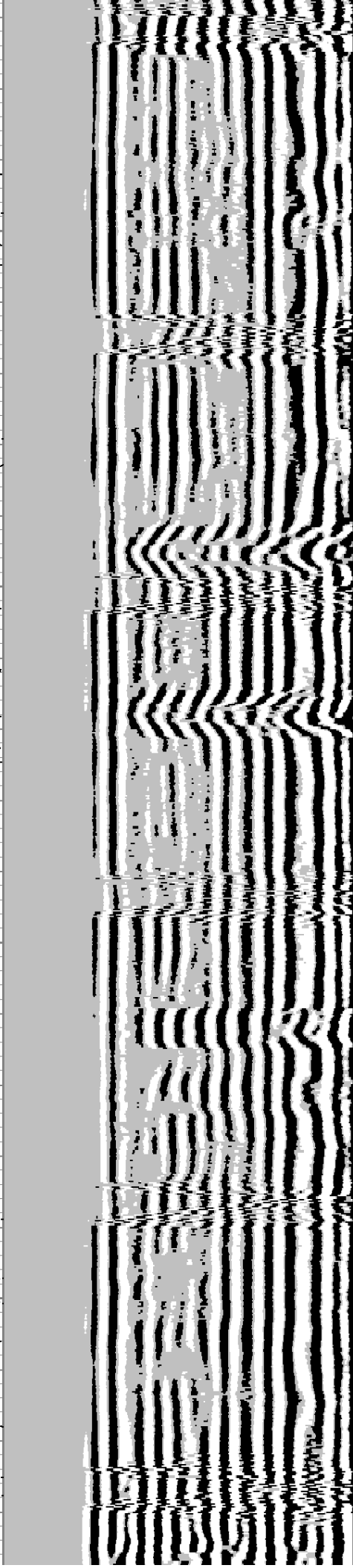
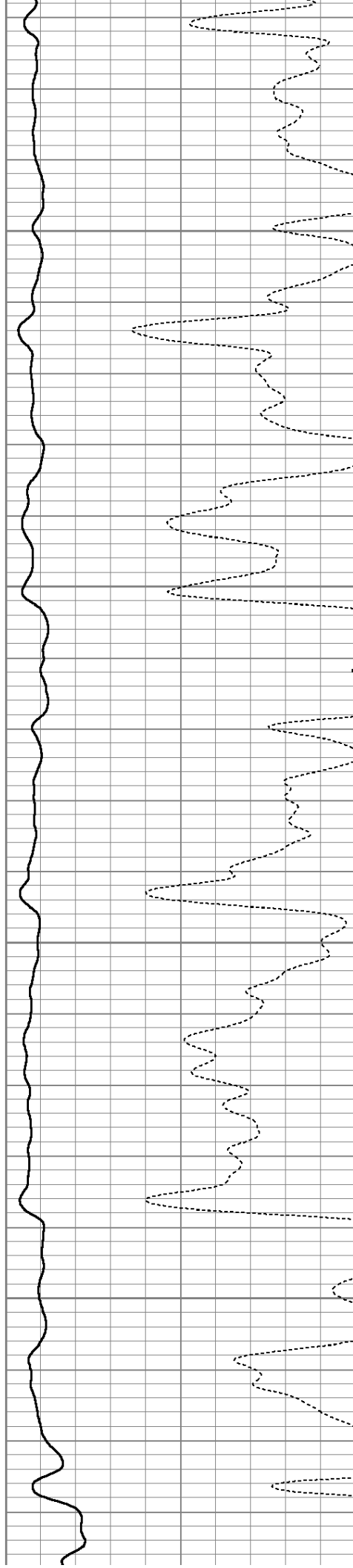


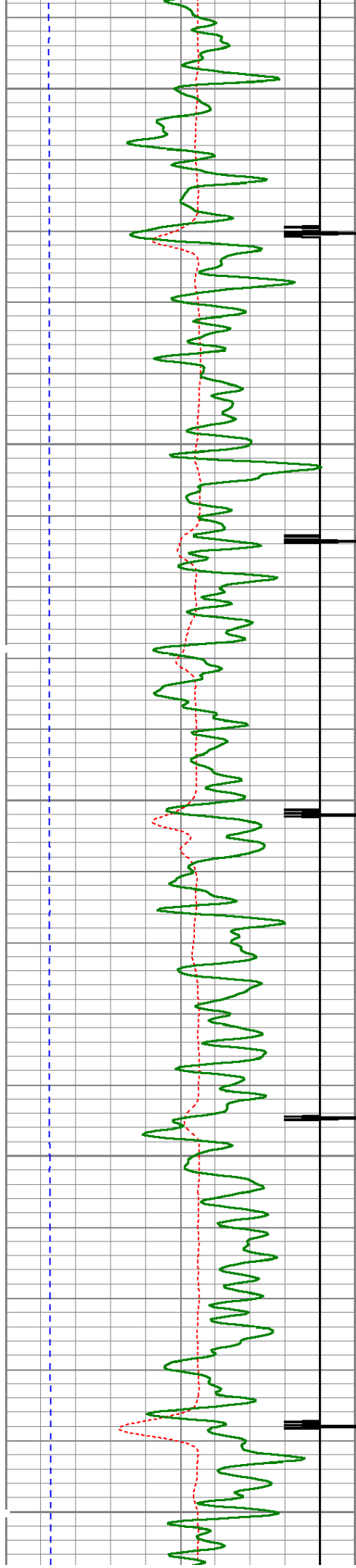
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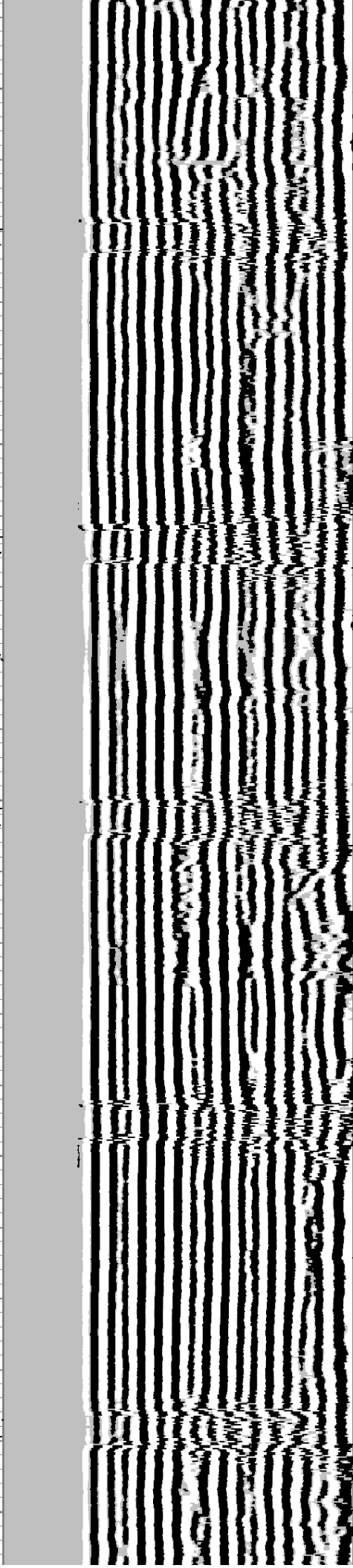
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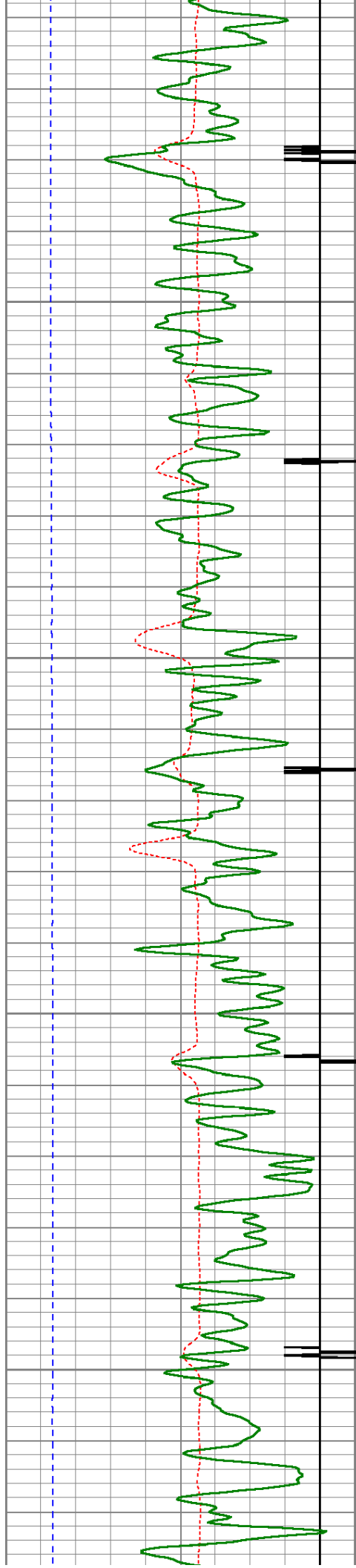
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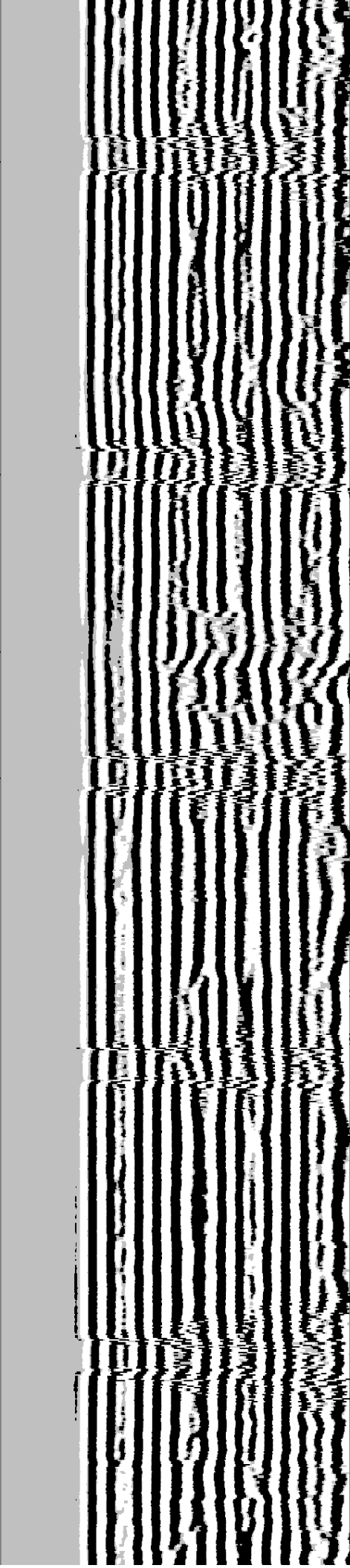
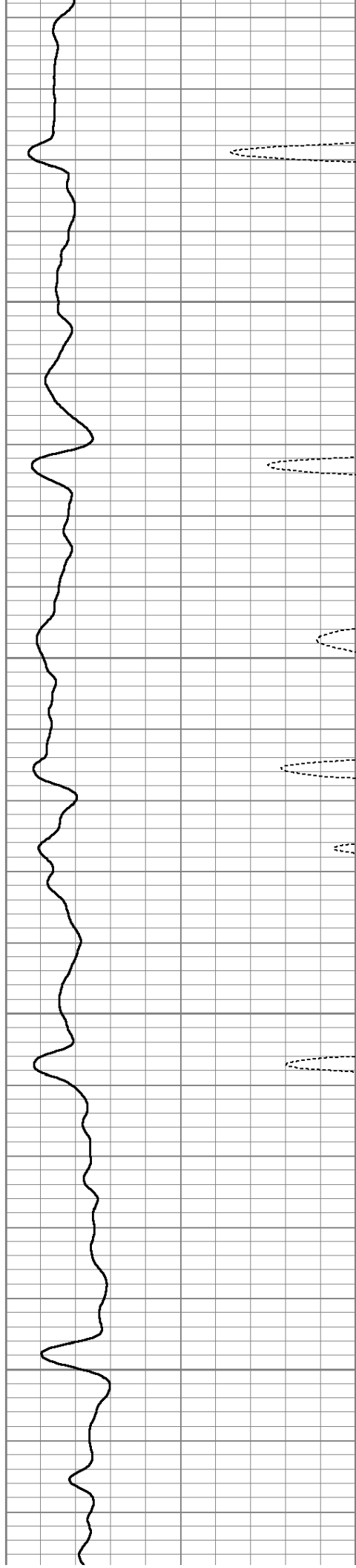


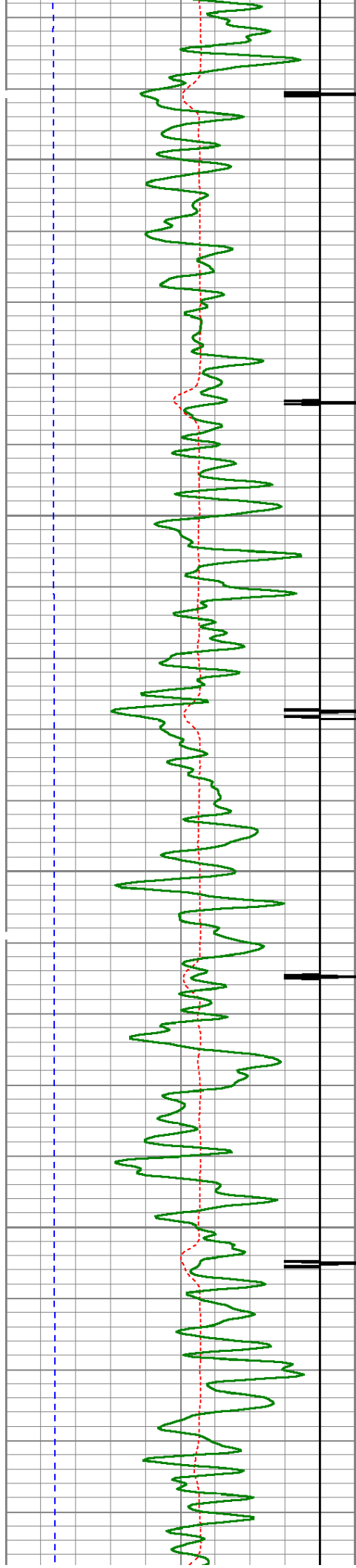
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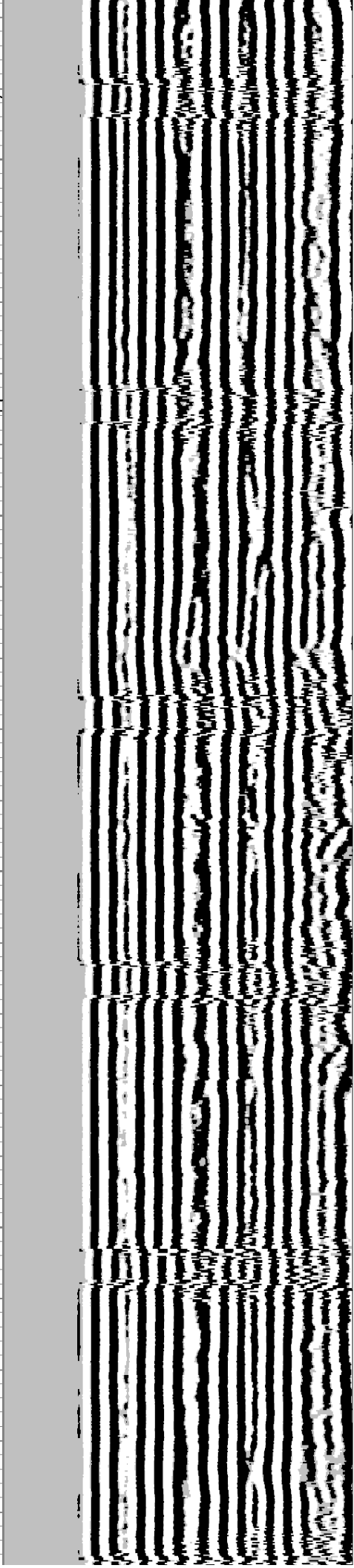
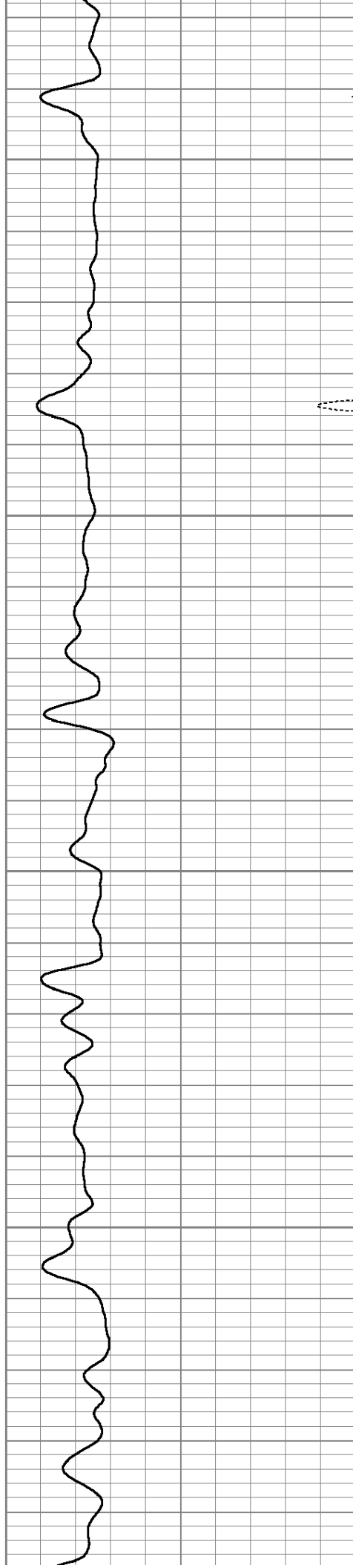


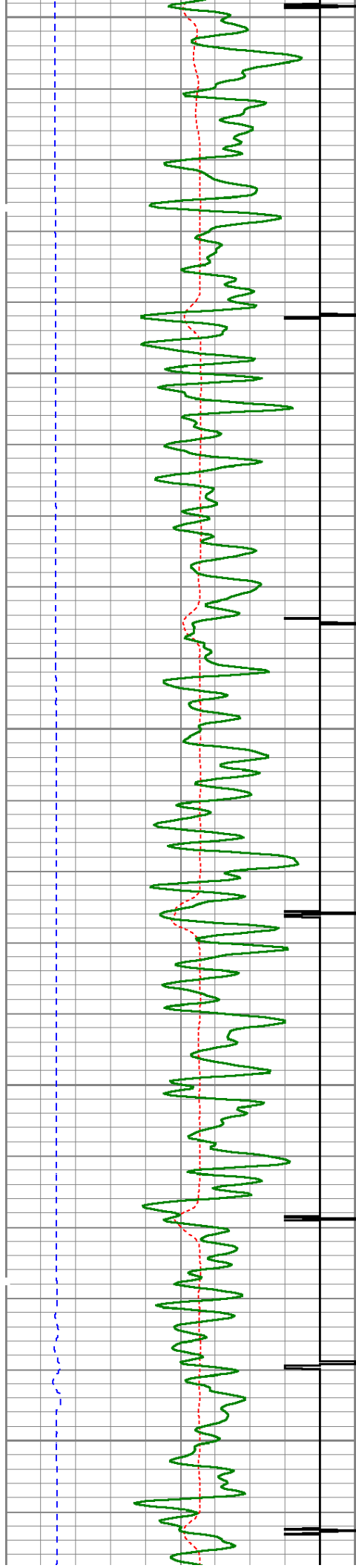
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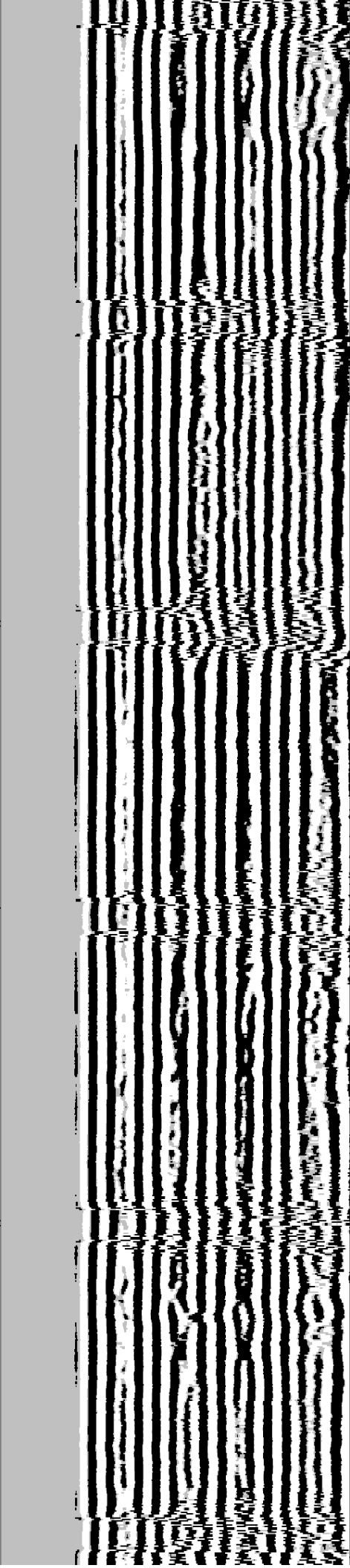
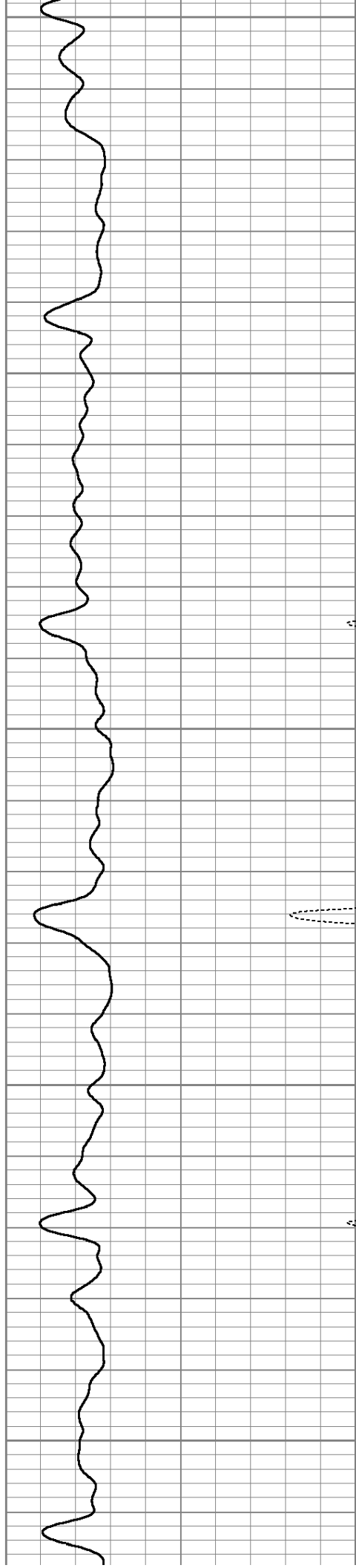
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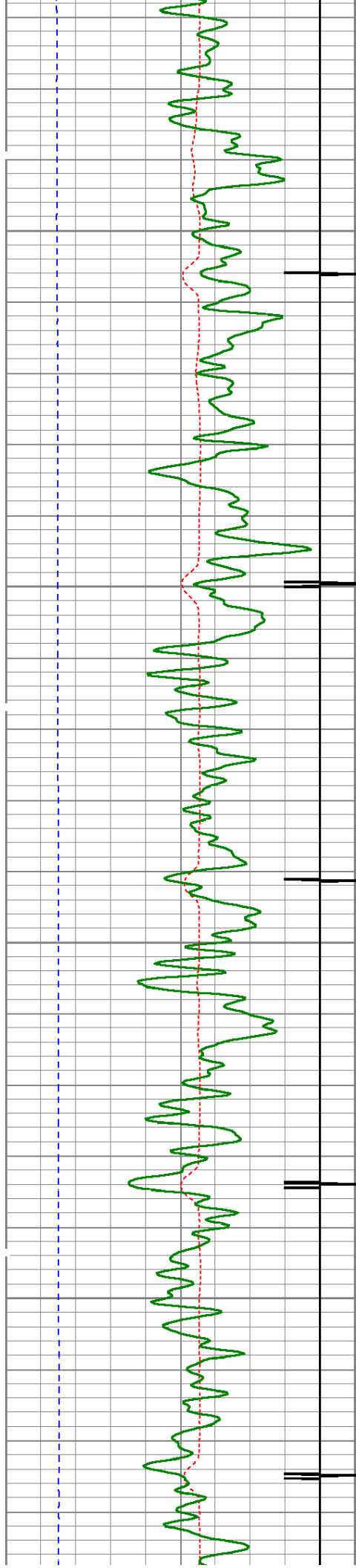
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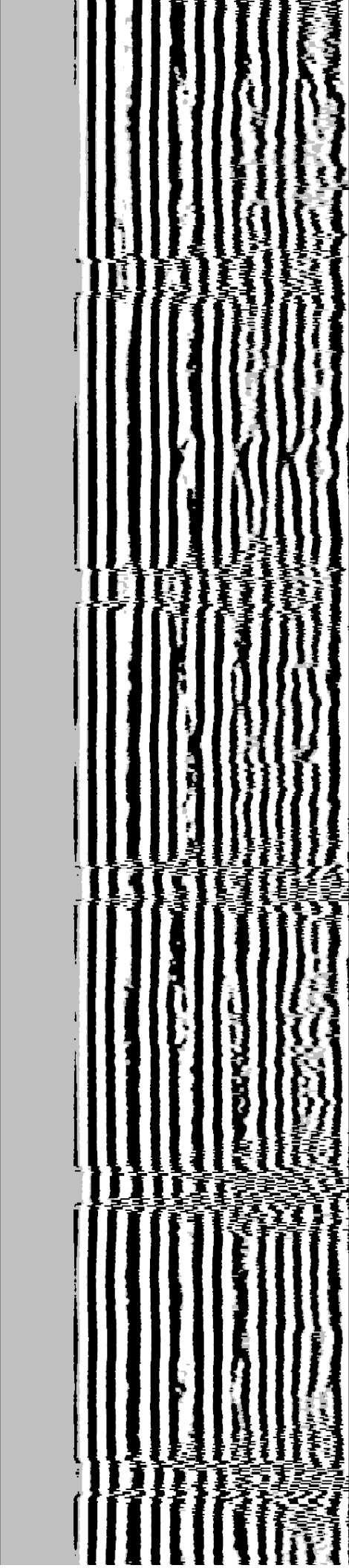
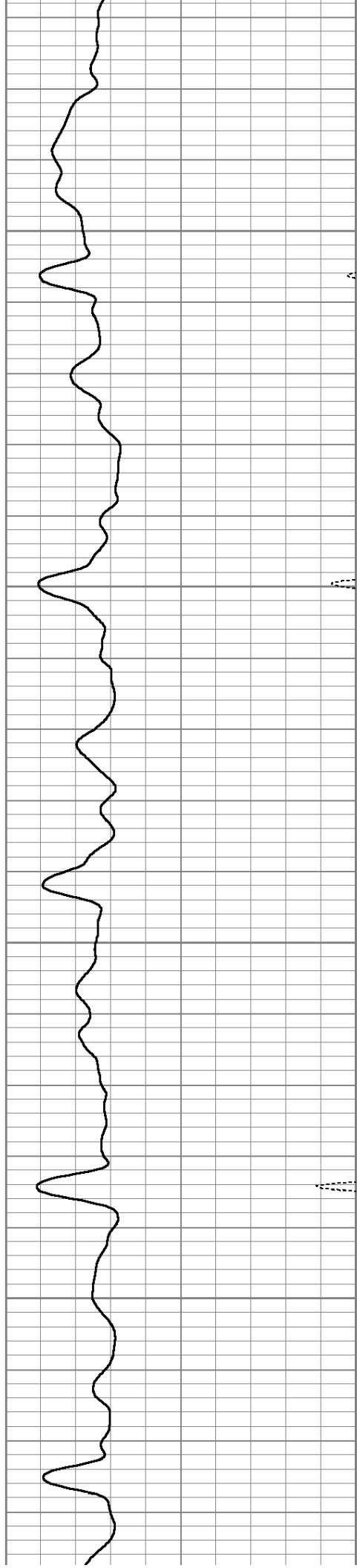


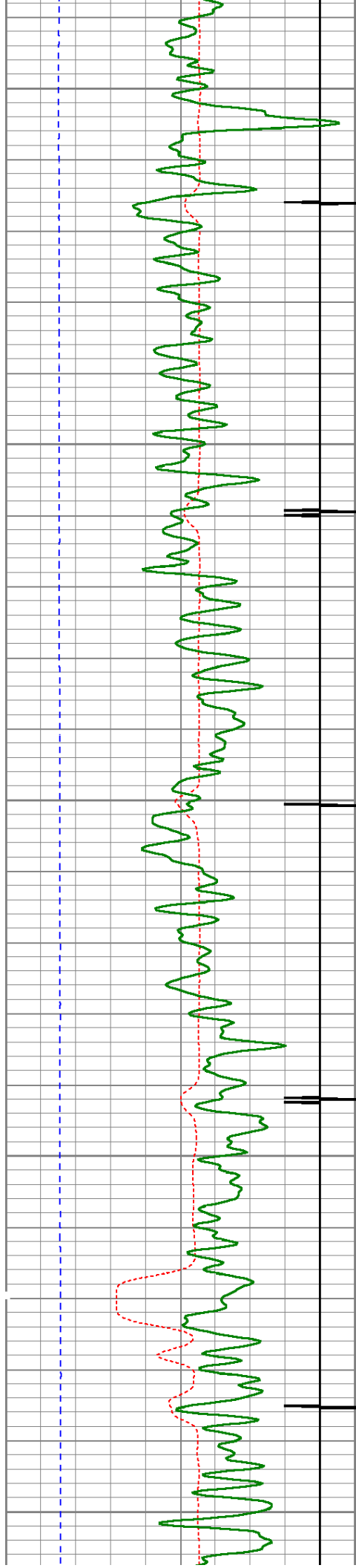
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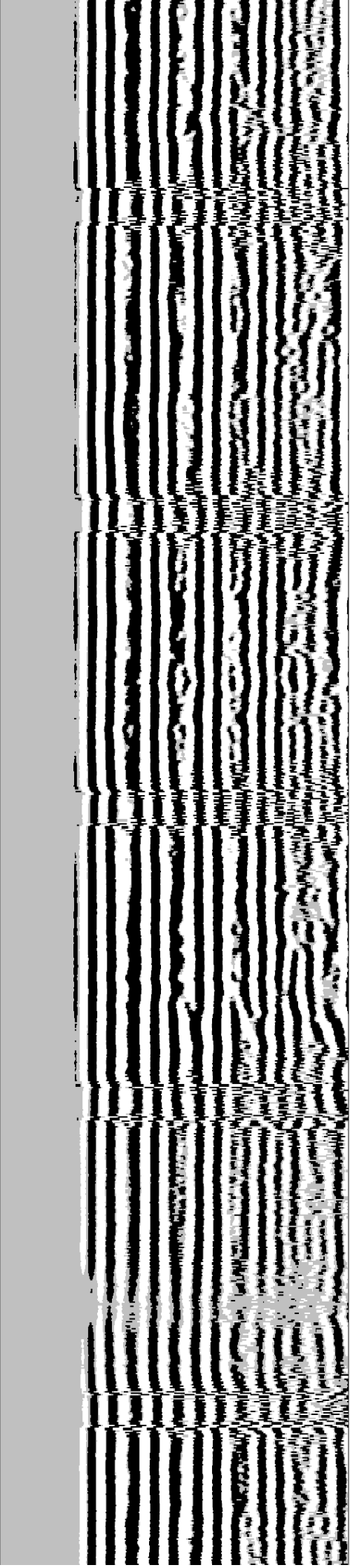
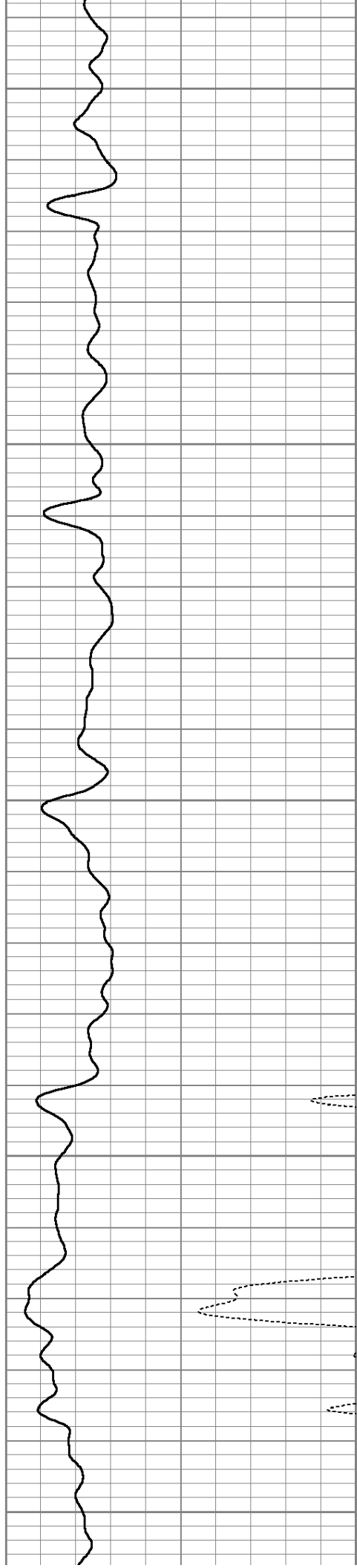
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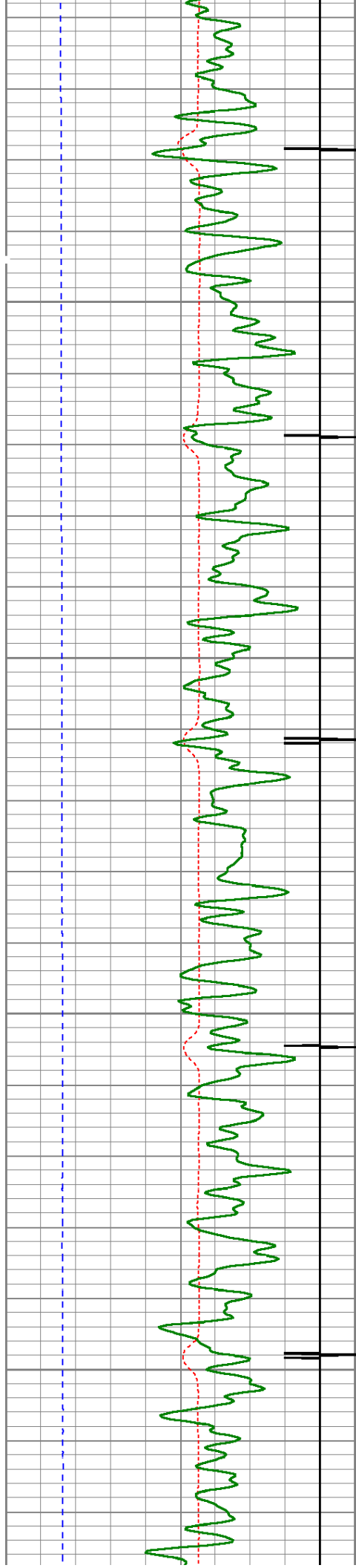
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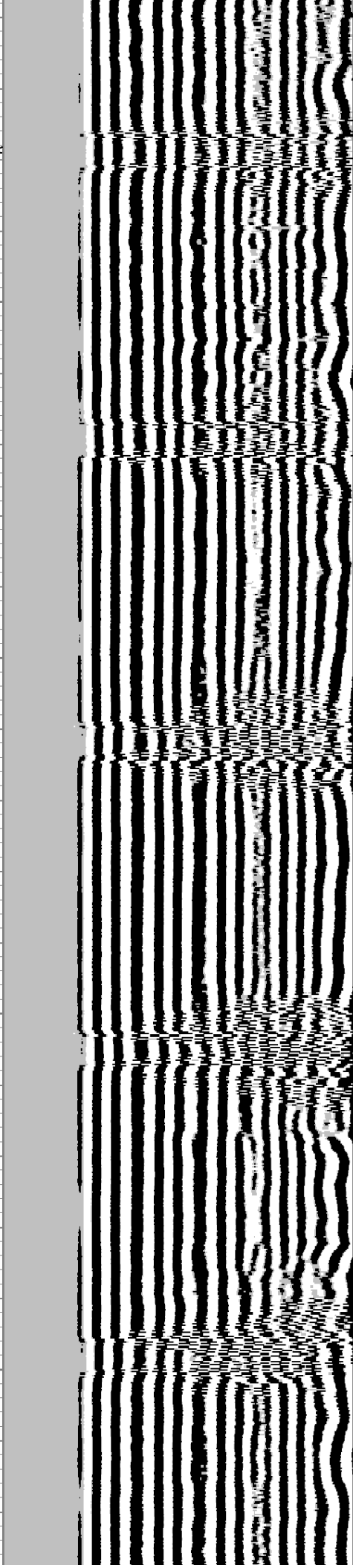
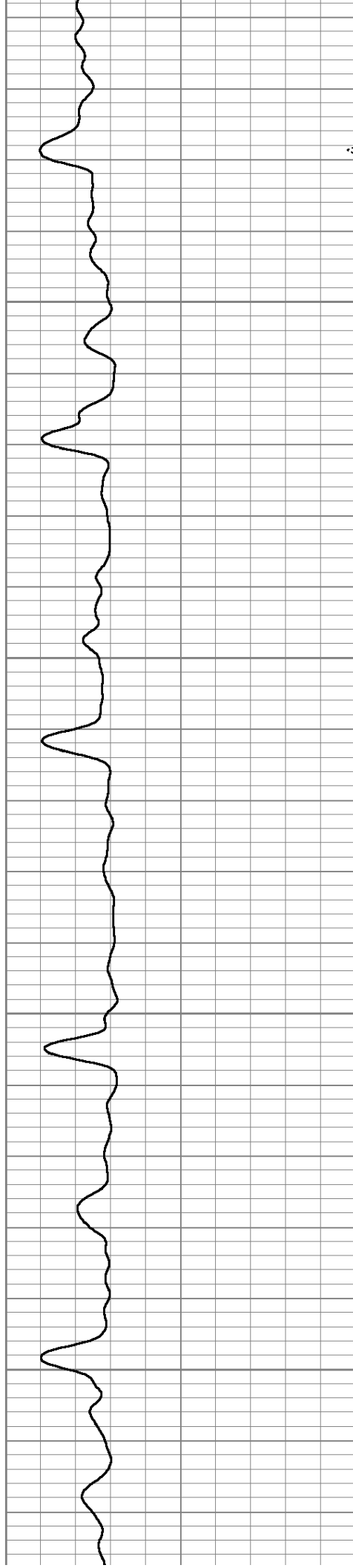


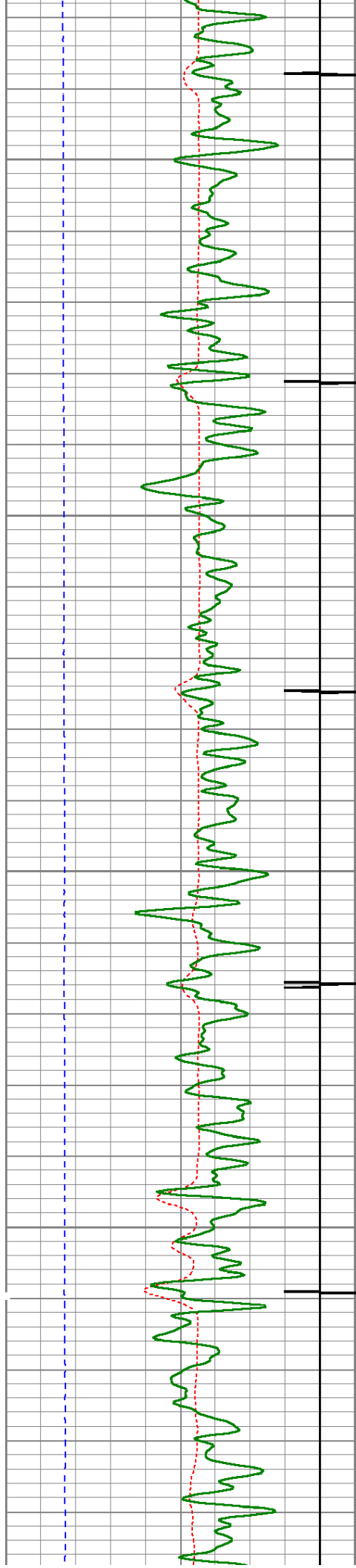
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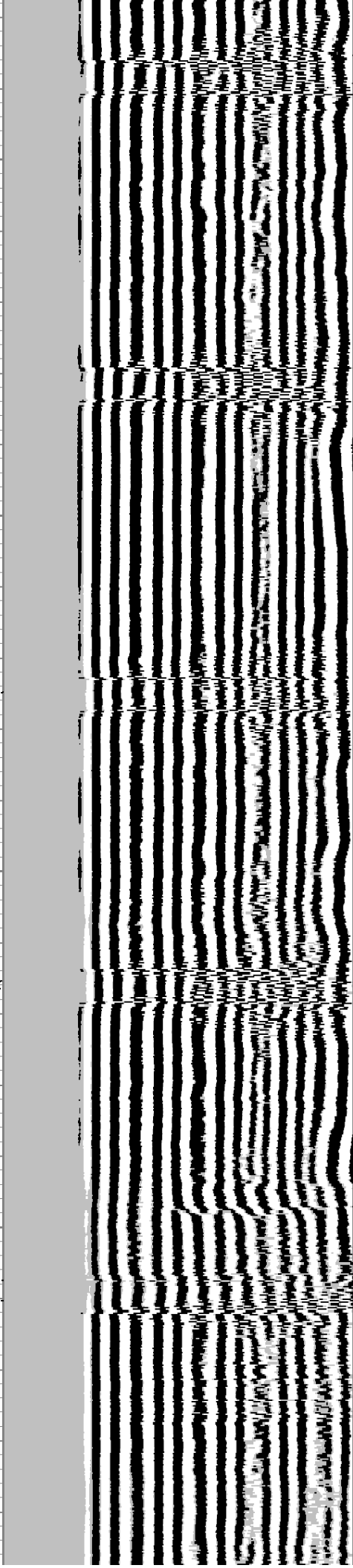
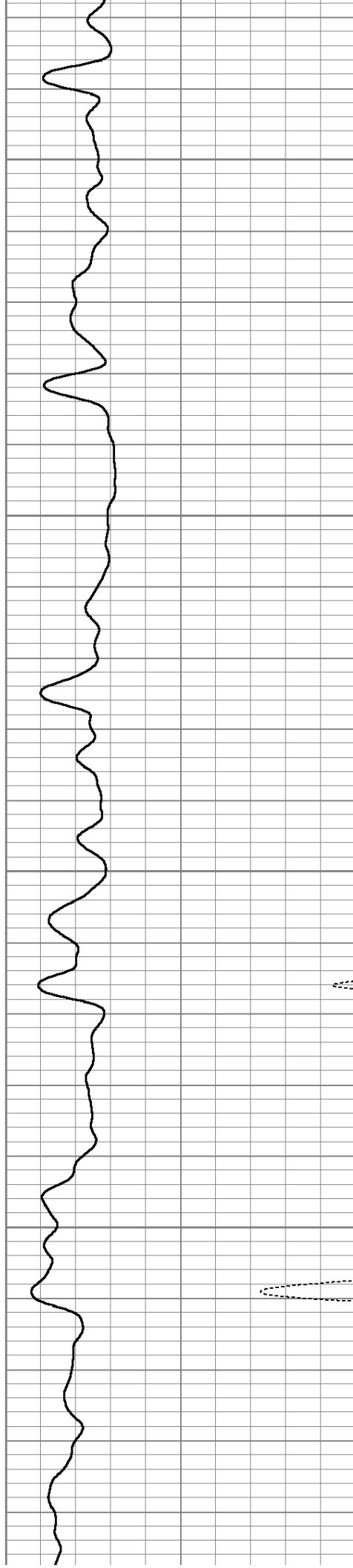


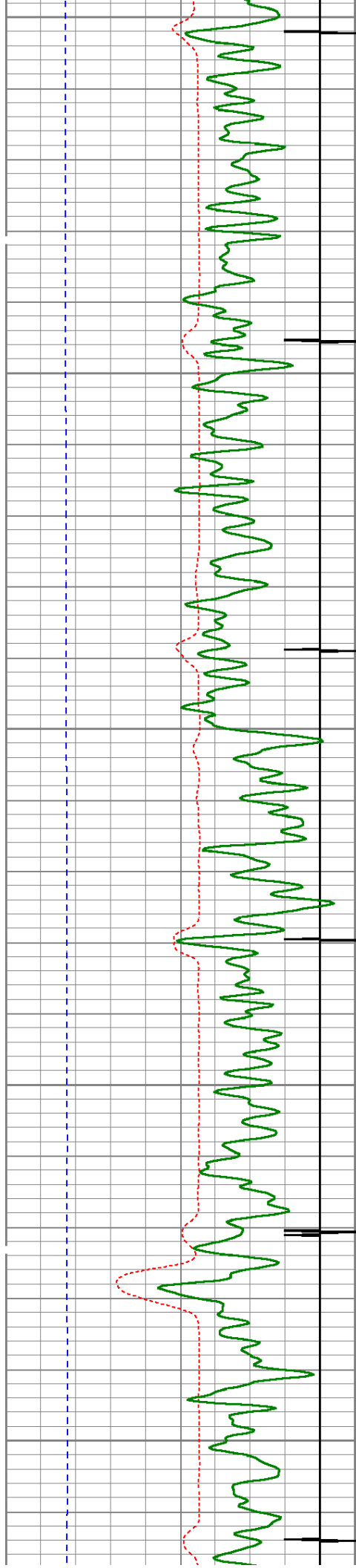
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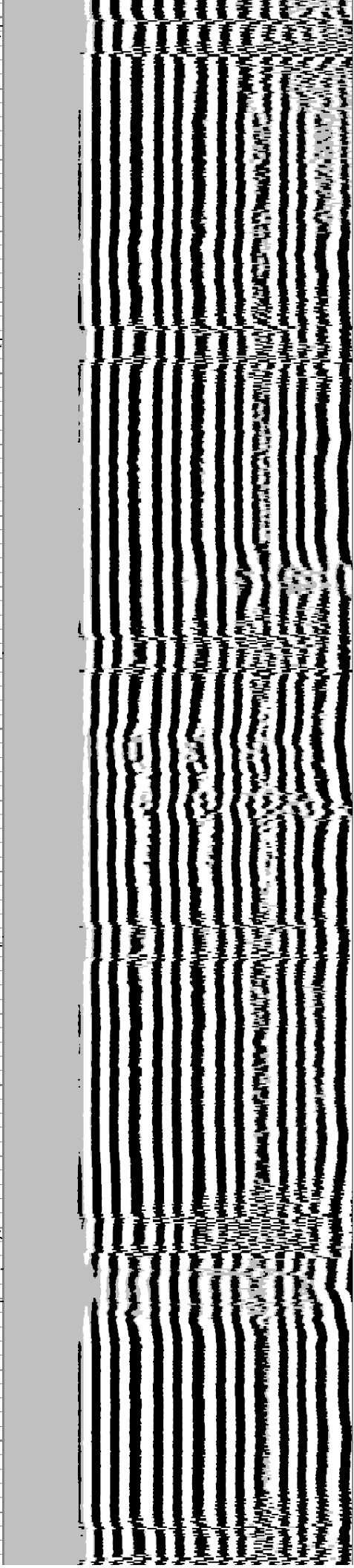
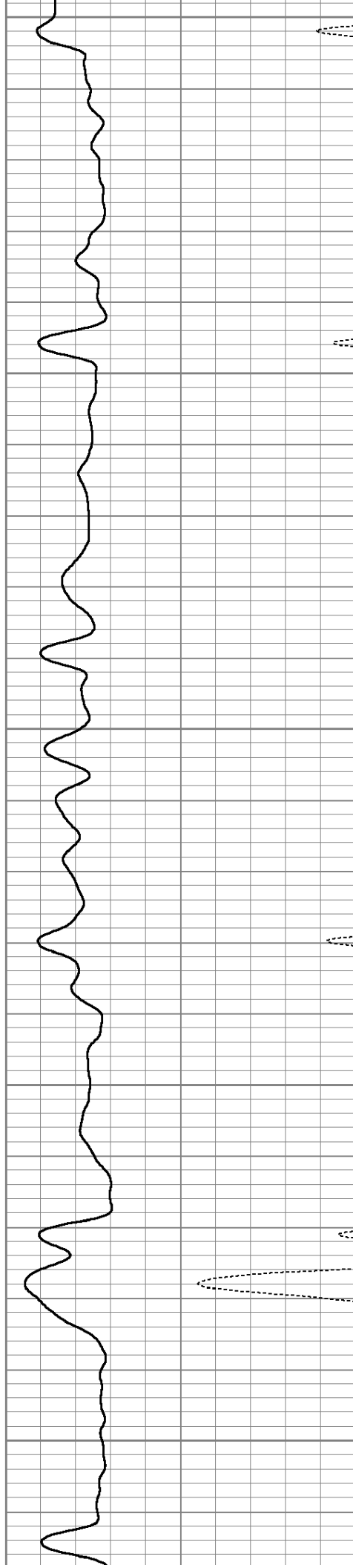
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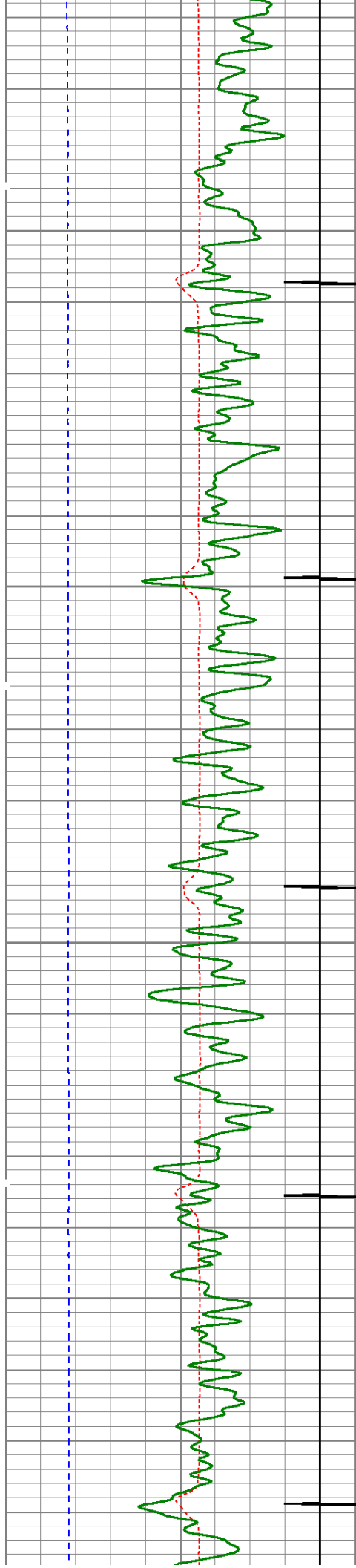
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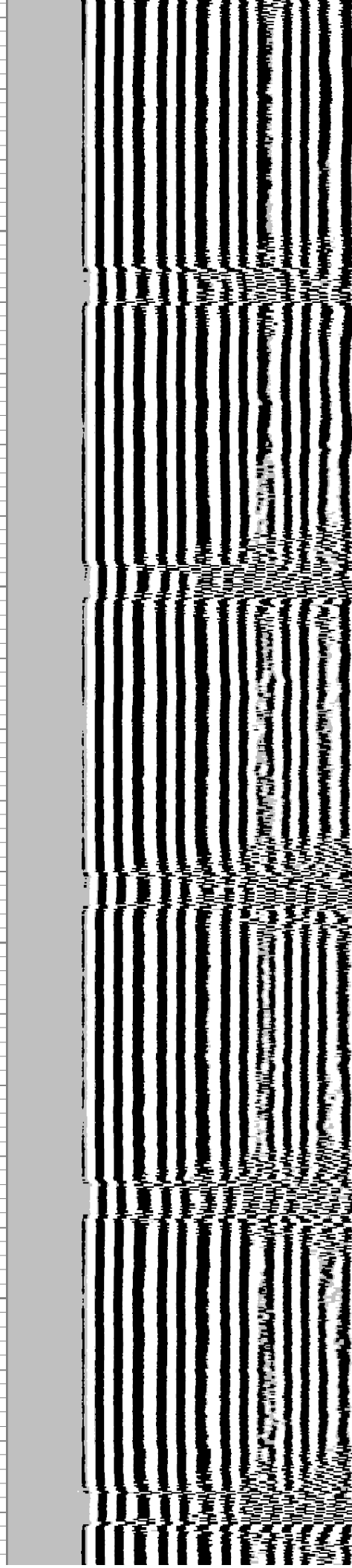
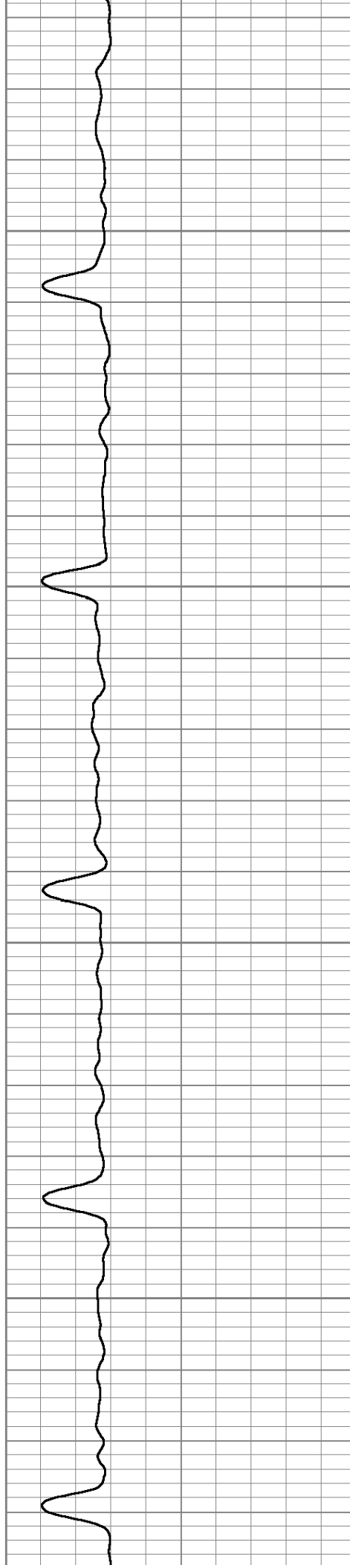


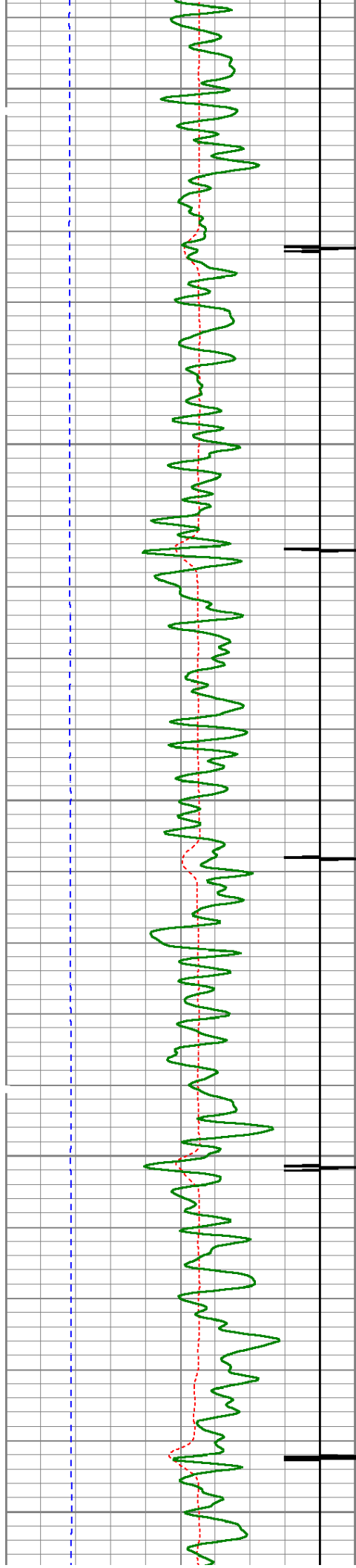
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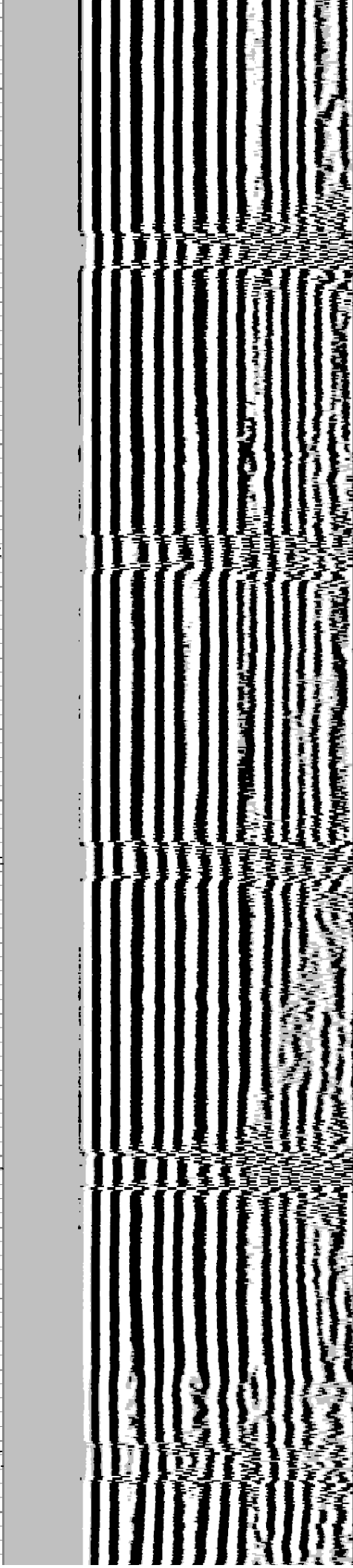
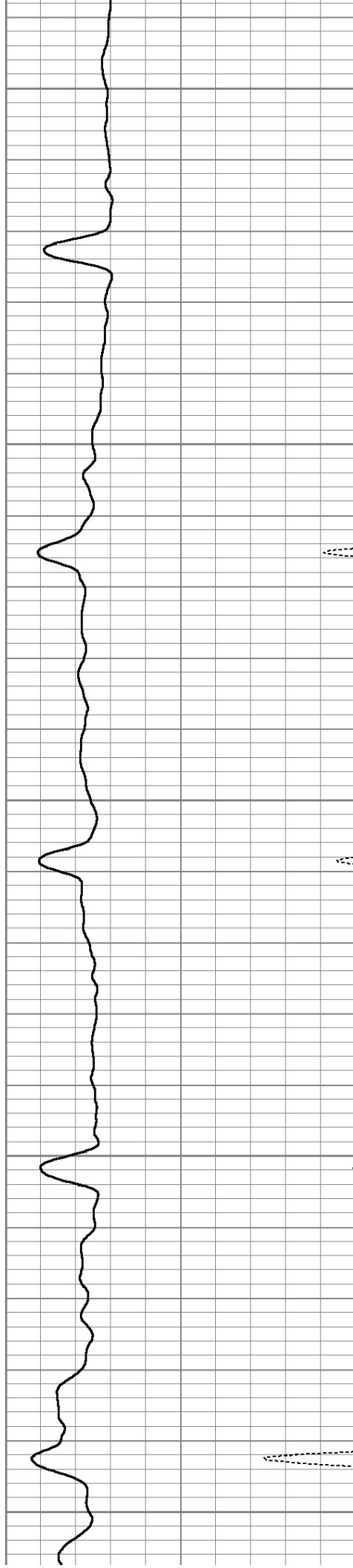
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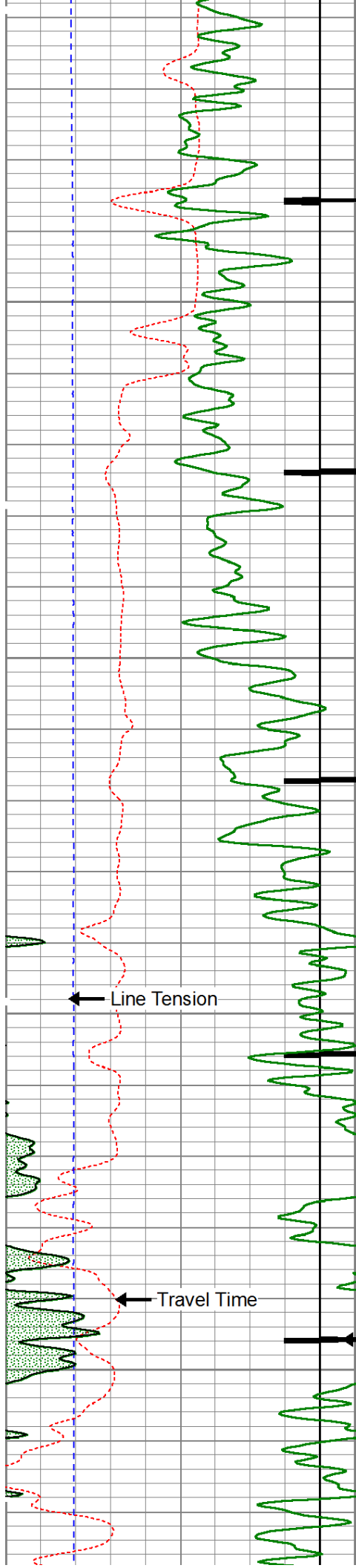
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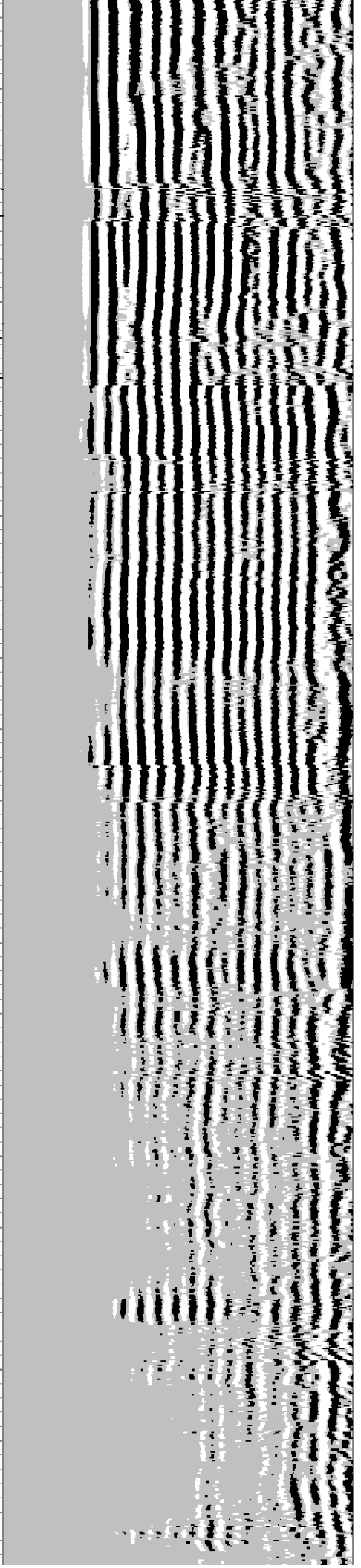
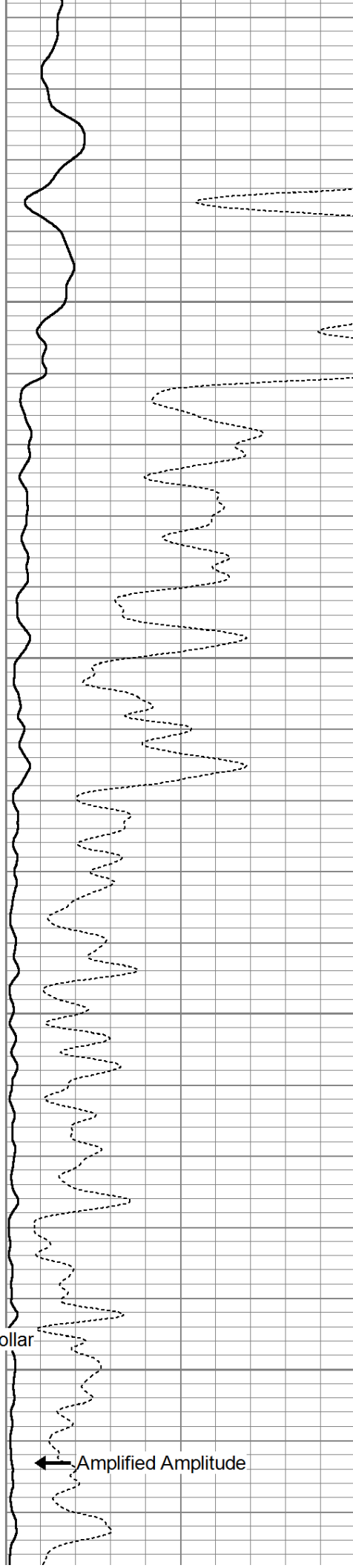


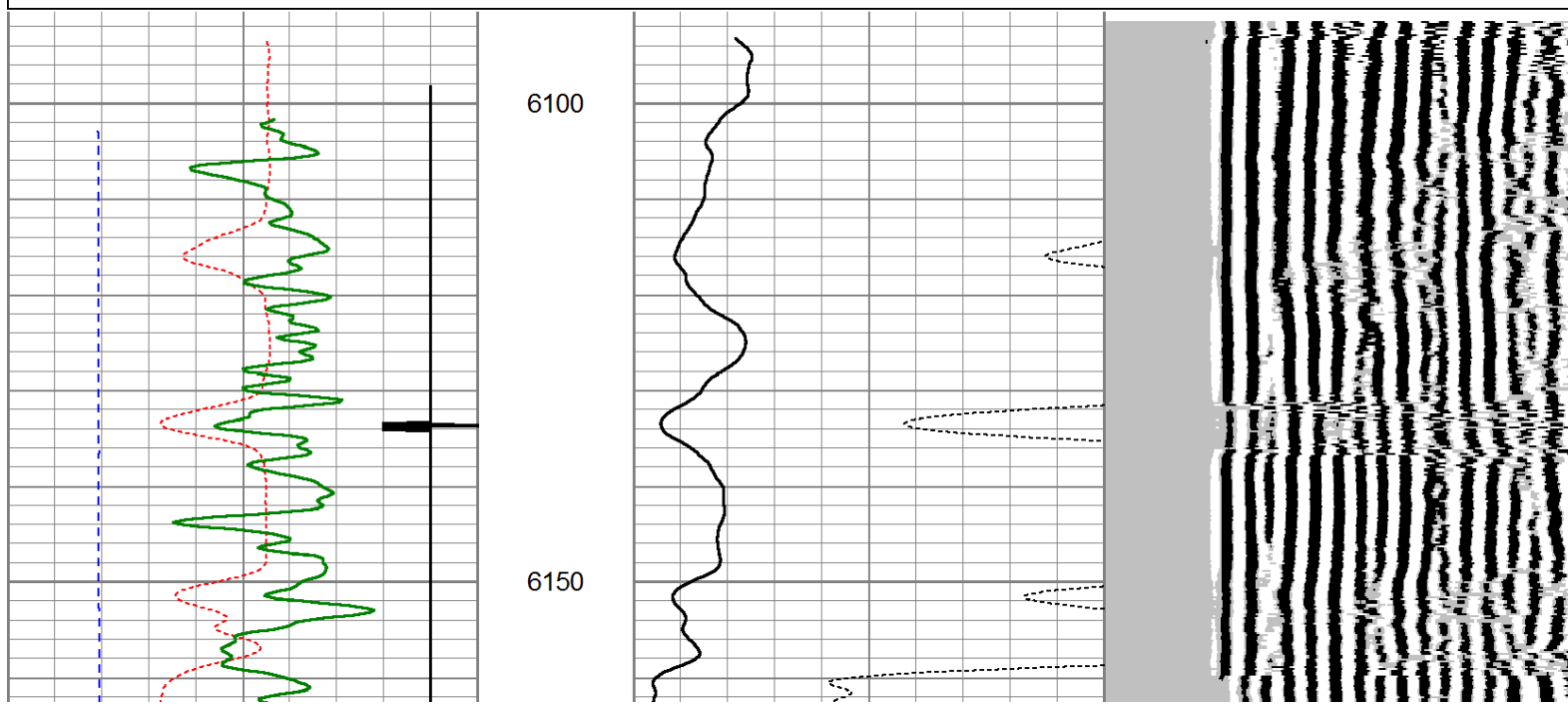
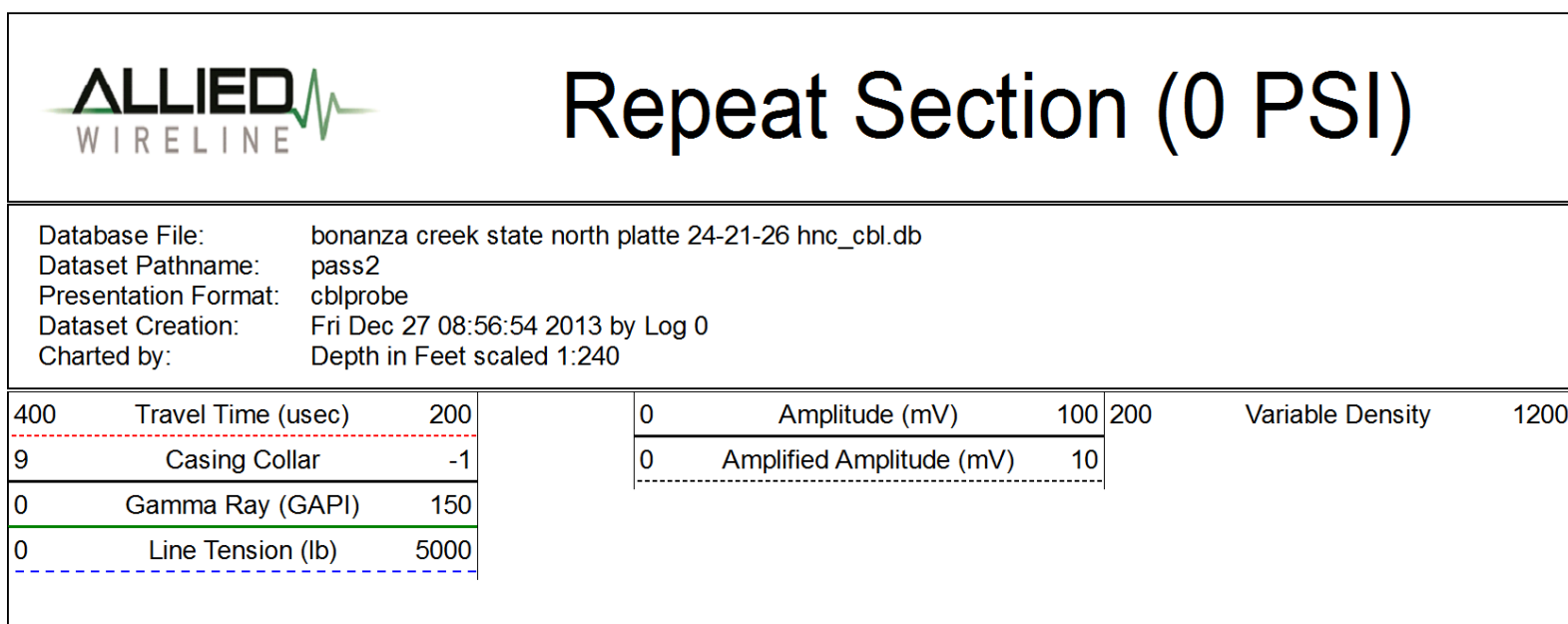
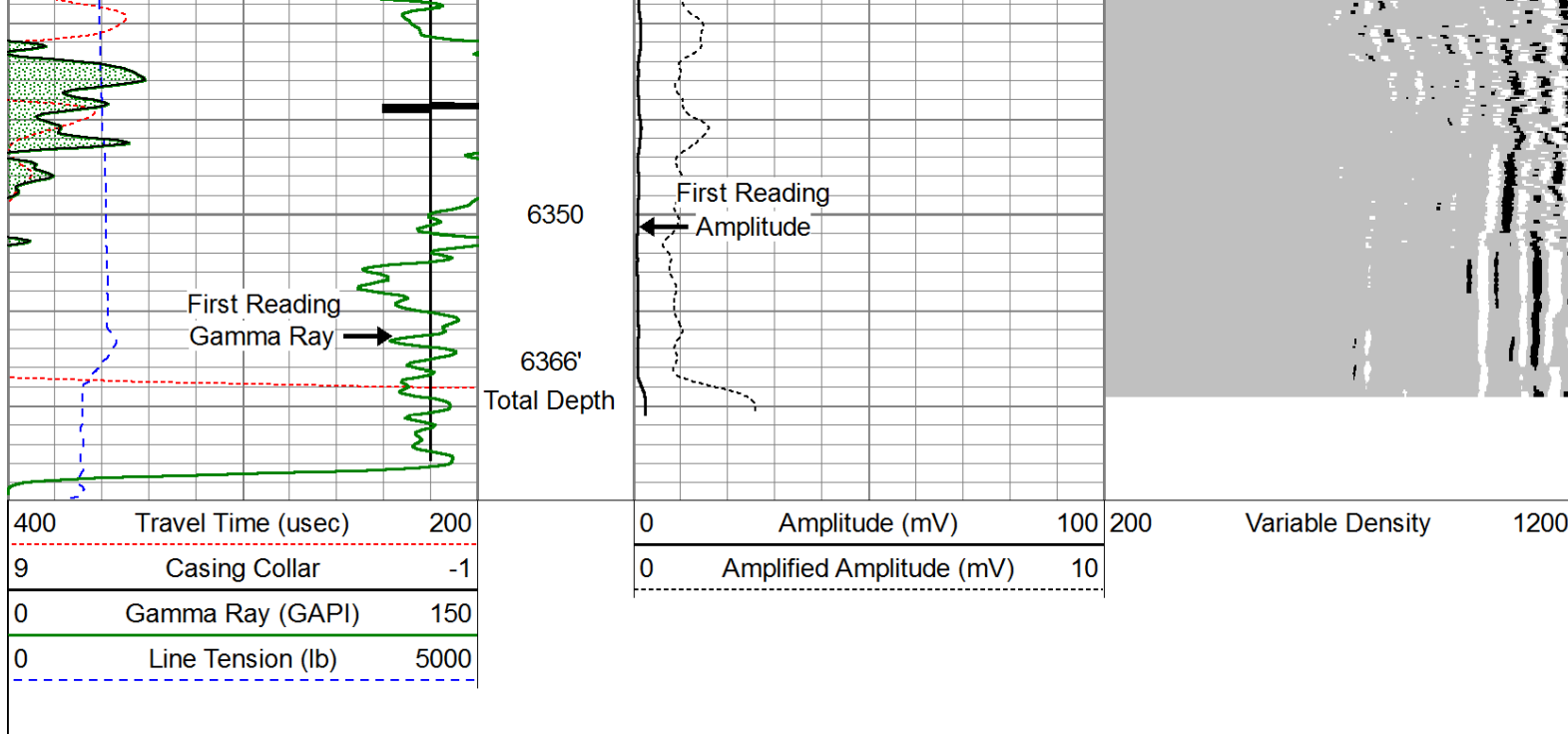
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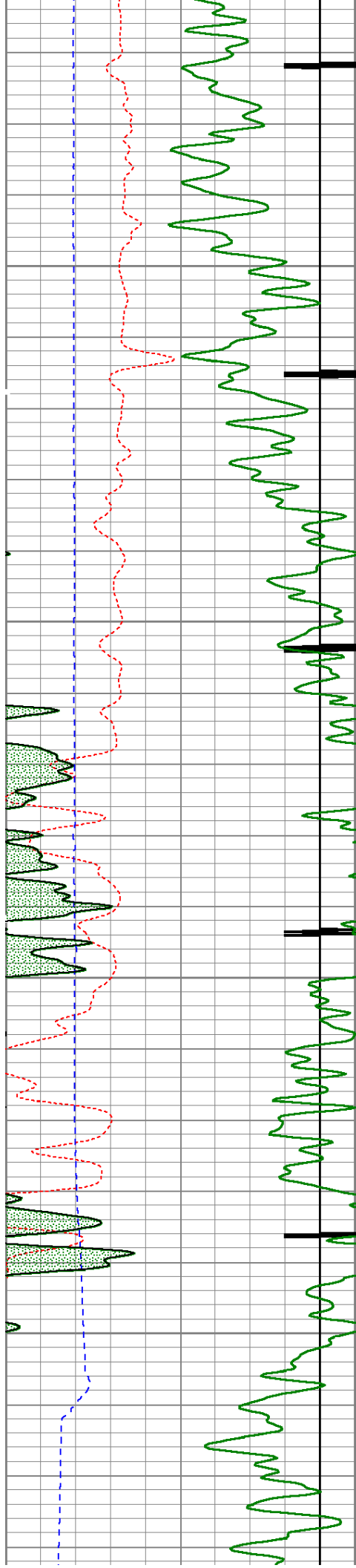
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6250

Casing Collar
6300





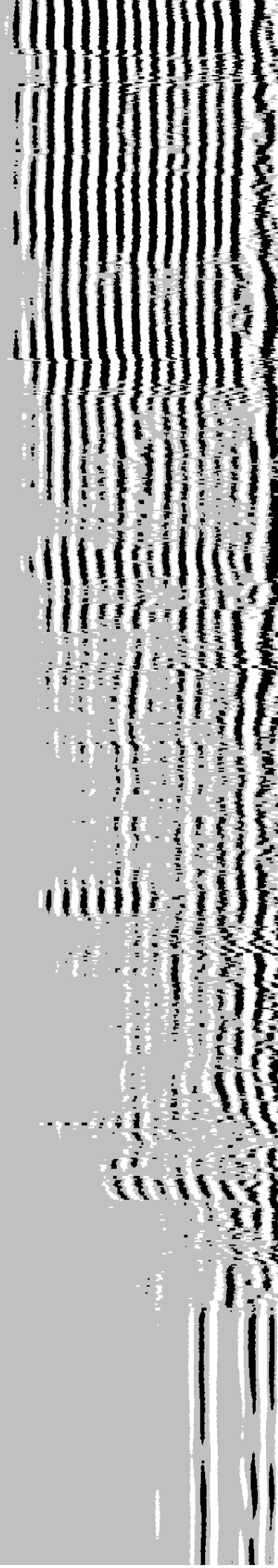
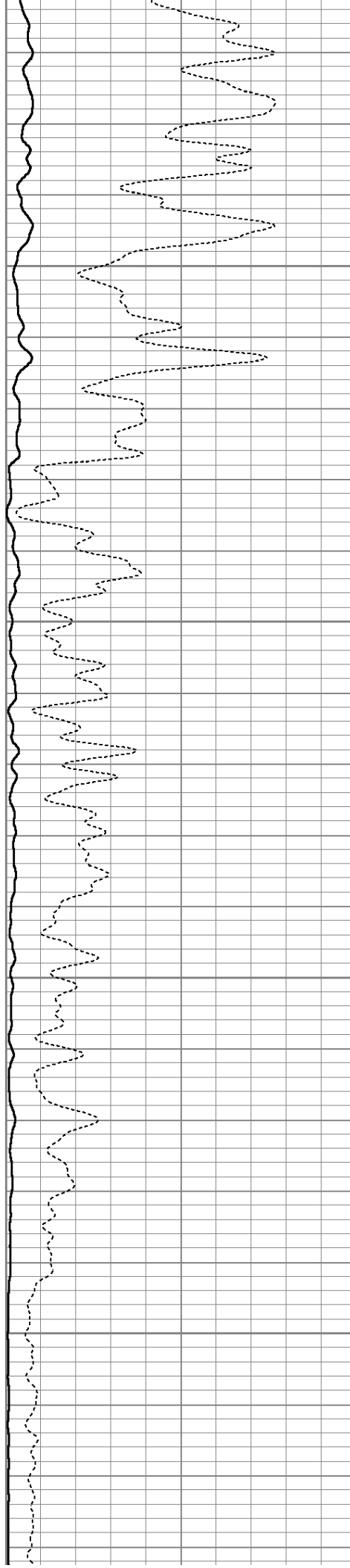


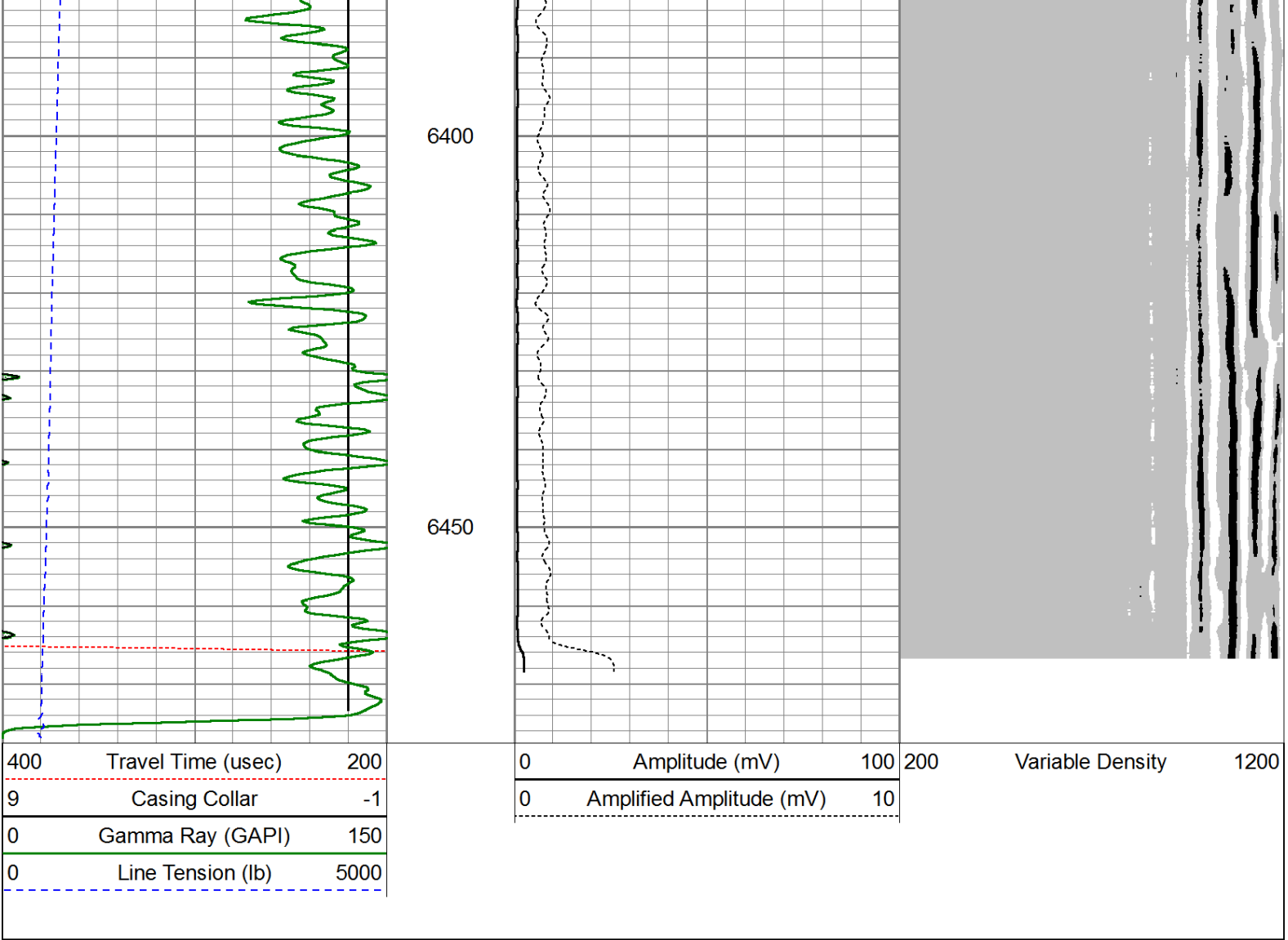
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6250

6300

6350





Calibration Report					
Database File:	bonanza creek state north platte 24-21-26 hnc_cbl.db				
Dataset Pathname:	pass4				
Dataset Creation:	Fri Dec 27 09:04:33 2013 by Log 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				

Gain: 1.00
Offset: 0.00
Delta Spacing: 2

Segmented Cement Bond Log Calibration Report

Serial Number: 101254
Tool Model: Probe
Calibration Casing Diameter: 7.000 in
Calibration Depth: 6227.117 ft

Master Calibration, performed Fri Dec 27 07:11:22 2013:

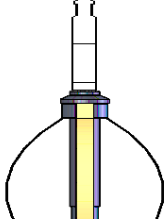
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.016	0.603	1.000	62.165	98.800	2.597
CAL	0.738	0.752				
5'	-0.020	0.645	1.000	62.165	92.014	2.824
SUM						
S1	0.001	0.640	0.000	100.000	156.488	-0.107
S2	-0.010	0.600	0.000	100.000	163.938	1.641
S3	-0.012	0.569	0.000	100.000	172.115	2.128
S4	-0.016	0.560	0.000	100.000	173.806	2.724
S5	-0.017	0.614	0.000	100.000	158.572	2.693
S6	-0.018	0.682	0.000	100.000	142.820	2.528
S7	-0.017	0.712	0.000	100.000	137.109	2.372
S8	-0.017	0.639	0.000	100.000	152.460	2.578

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	0.738	0.752	1.000	0.000

Air Zero Calibration, performed Fri Dec 27 06:35:43 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

