



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

Company		Bonanza Creek Energy					
Well		State North Platte 11-14-26HC					
Field		Wattenberg					
County		Weld					
State		Colorado					
Location:		API # : 05-123-38266					
SEC 26 TWP 5N RGE 63W		Other Services NONE					
Permanent Datum		Ground Level		Elevation		4566'	
Log Measured From		Kelly Bushing		12.5' APD			
Drilling Measured From		Kelly Bushing					
Date		December 11, 2013					
Run Number		1					
Depth Driller		11015'					
Depth Logger		6650'					
Bottom Logged Interval		6638'					
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		96'					
Time Well Ready		14:50					
Time Logger on Bottom		15:23					
Equipment Number		13033					
Location		Brighton					
Recorded By		C. Rall					
Witnessed By		K. Dodge					
Run Number		Bit		From		To	
Size		Wgt/Ft		Top		Bottom	
9 5/8"		36#		0		474'	
7"		26#		0		6917'	
4 1/2"		11.6#		6817'		11015'	

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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 12.5' Kelly Bushing

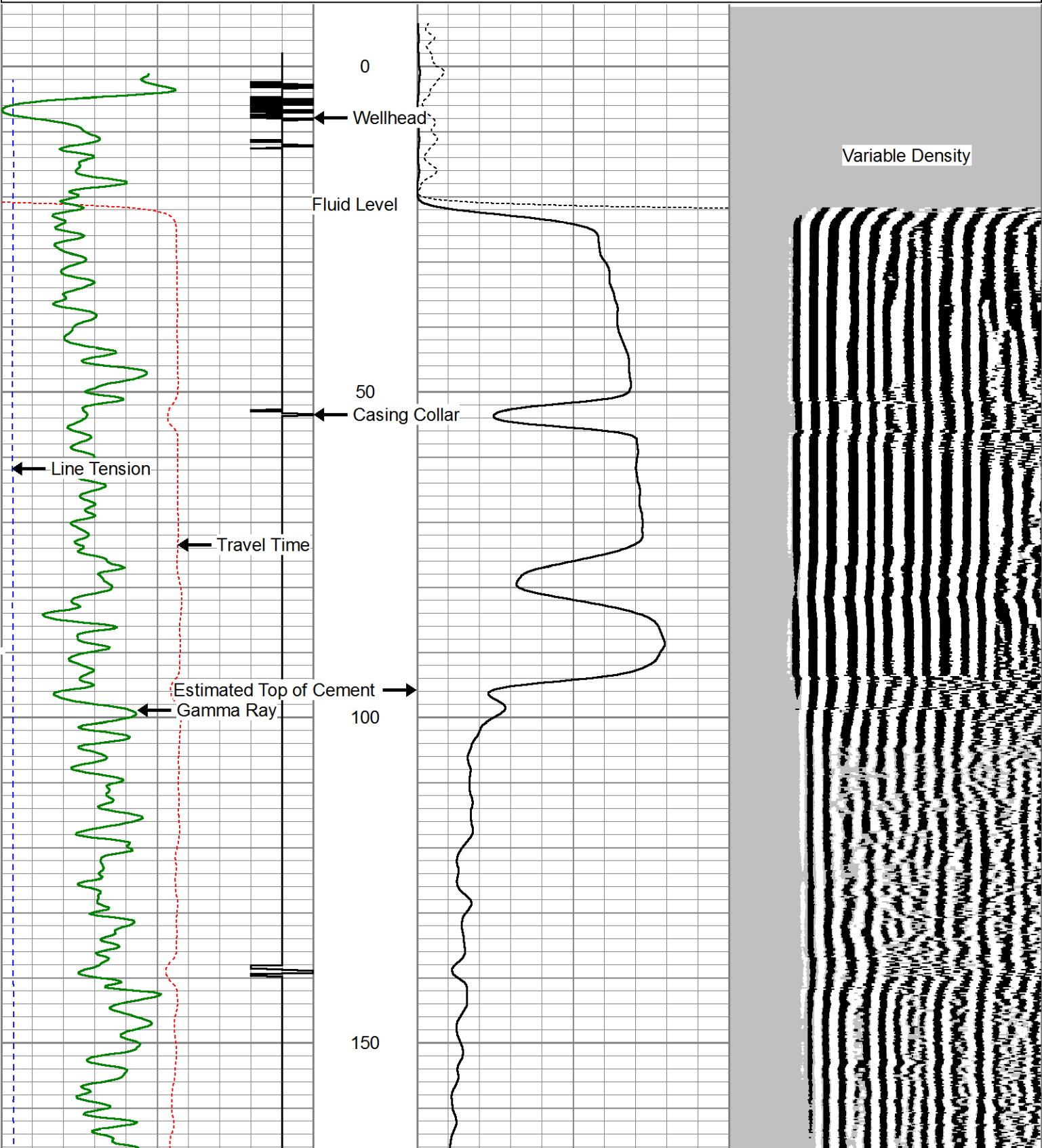
Estimated Top of Cement @ 98'

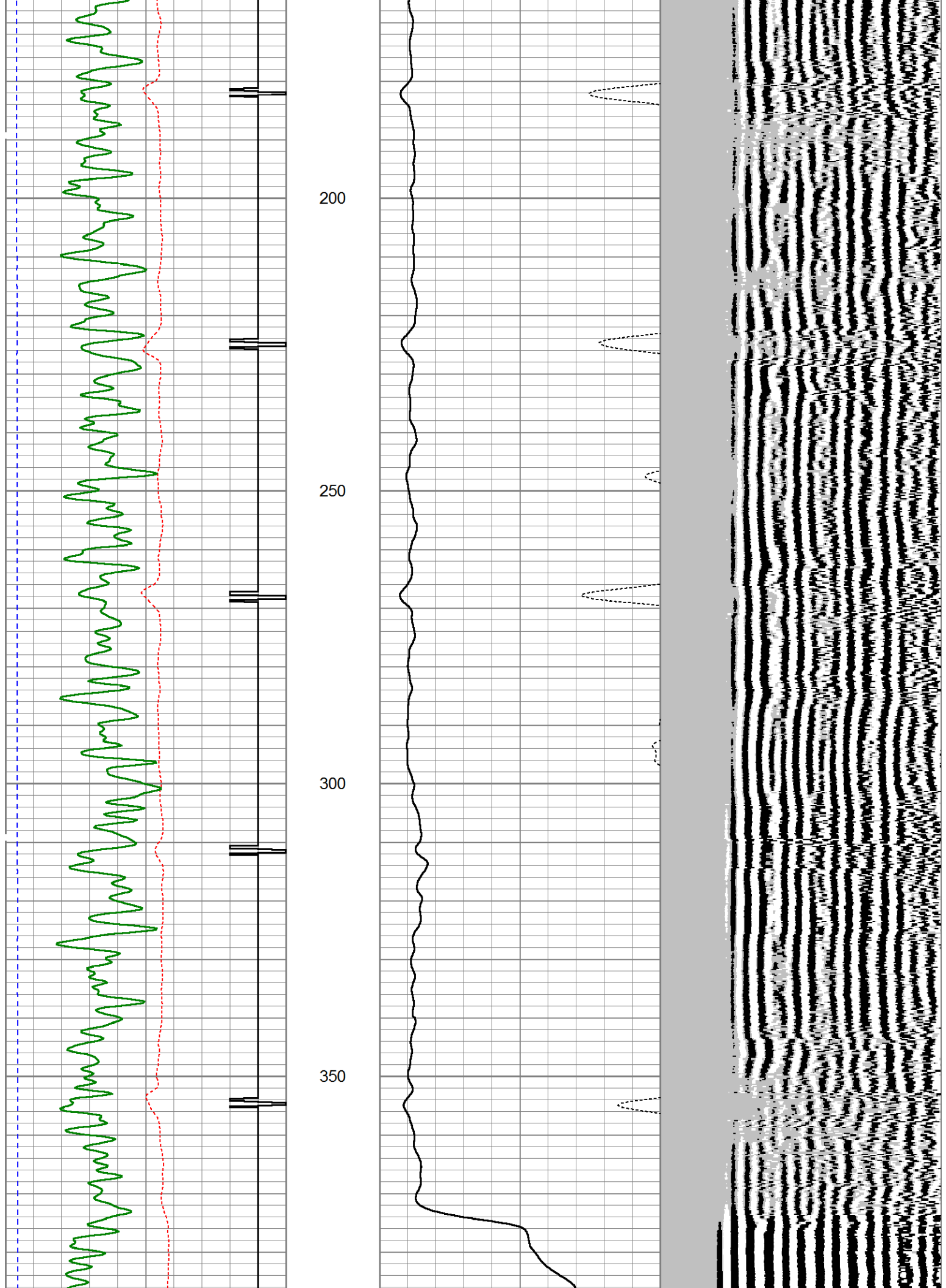
Thank You For using Allied Wireline Services
(303) 659-4609

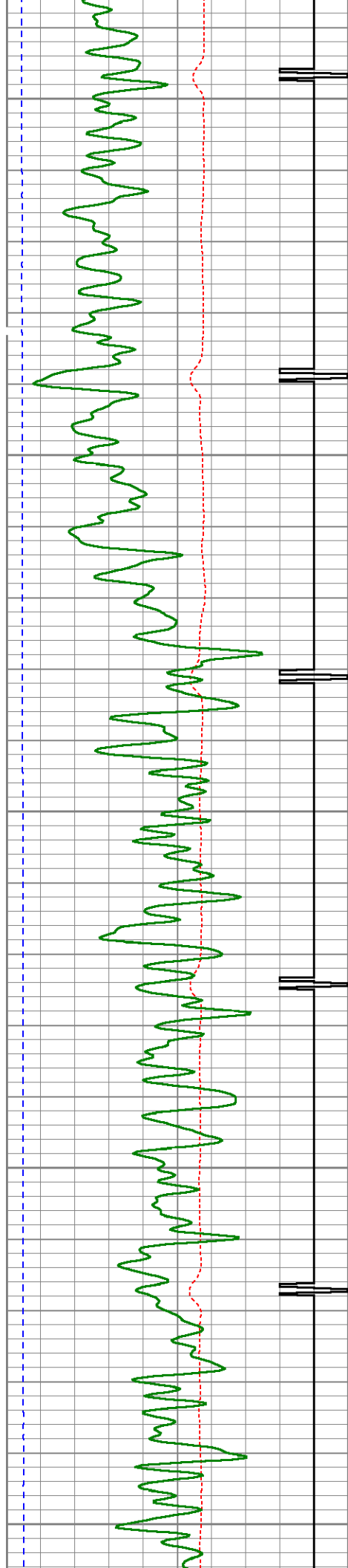


Main Pass (0 PSI)

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						







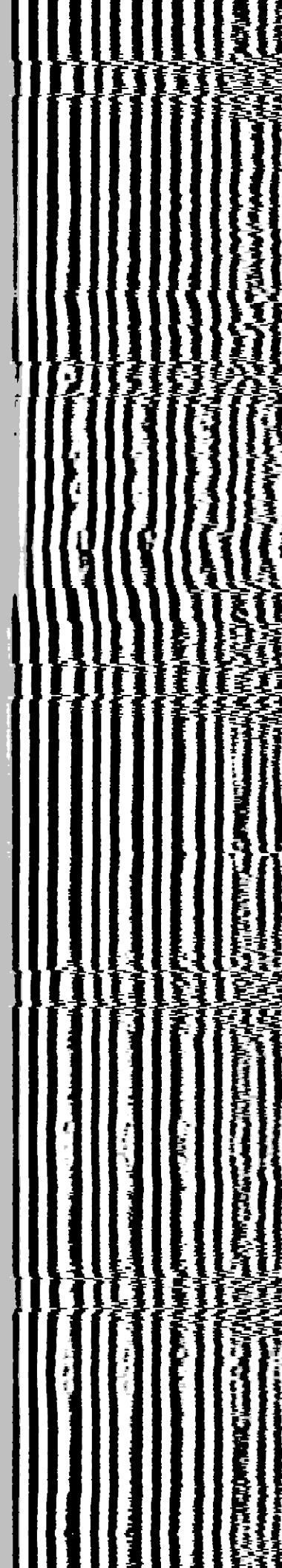
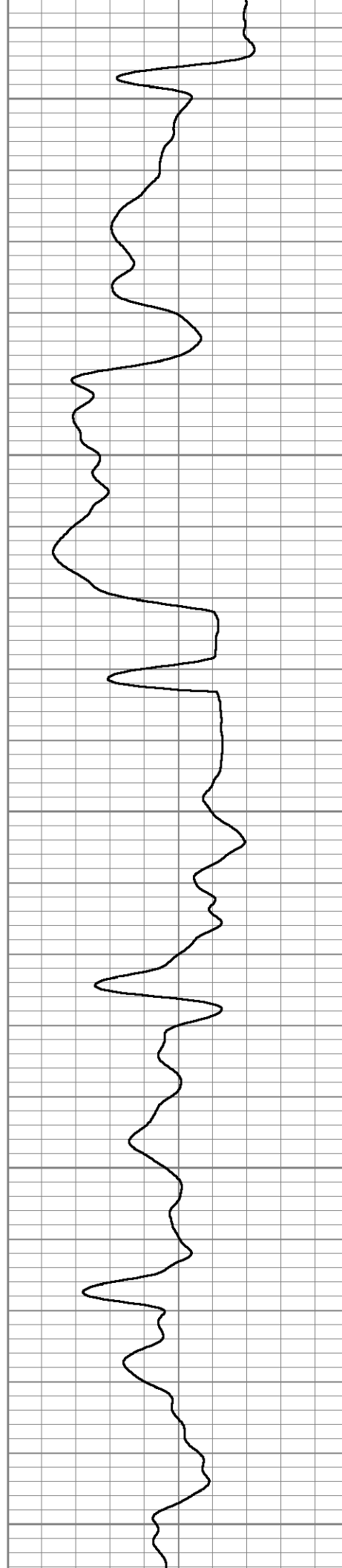
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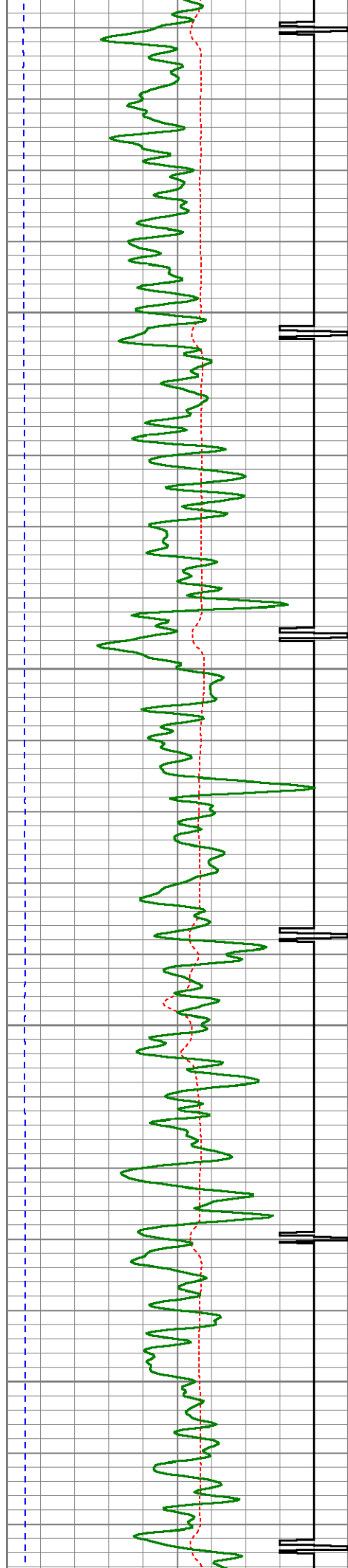
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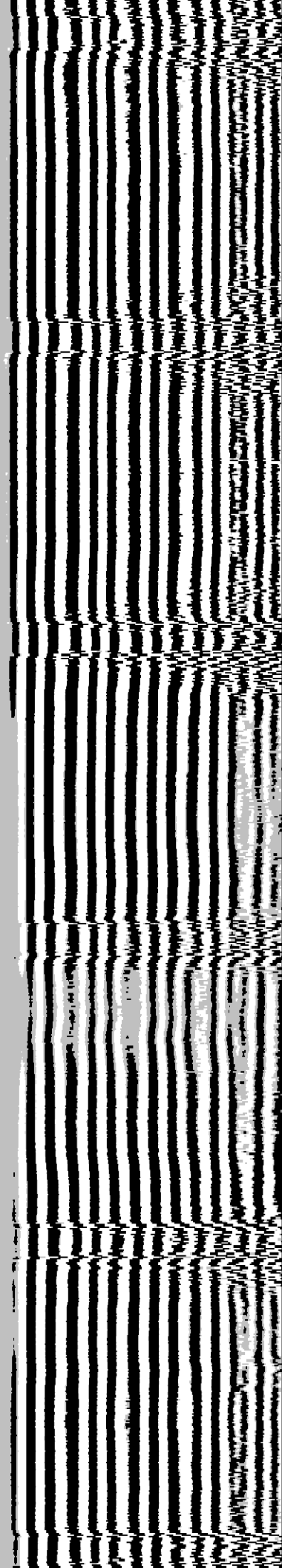
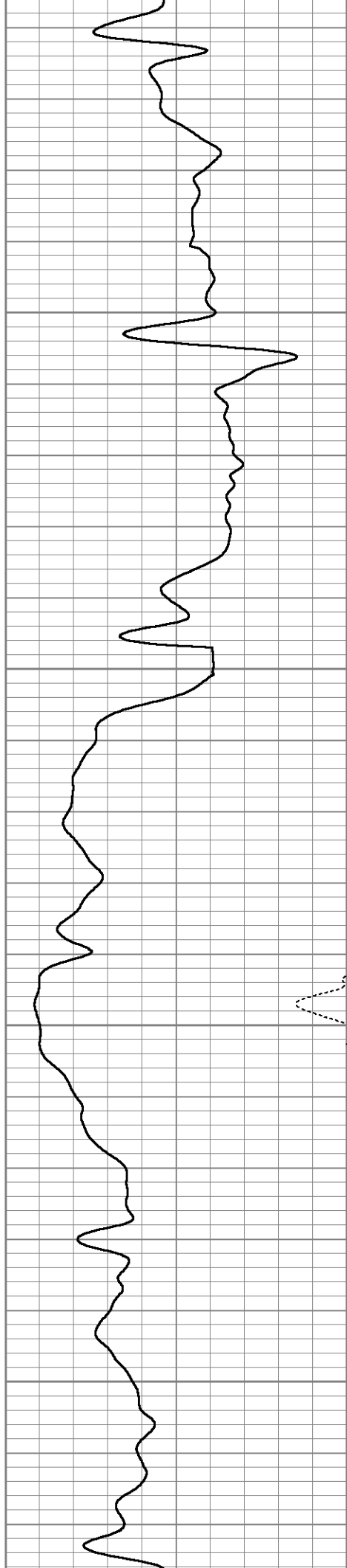


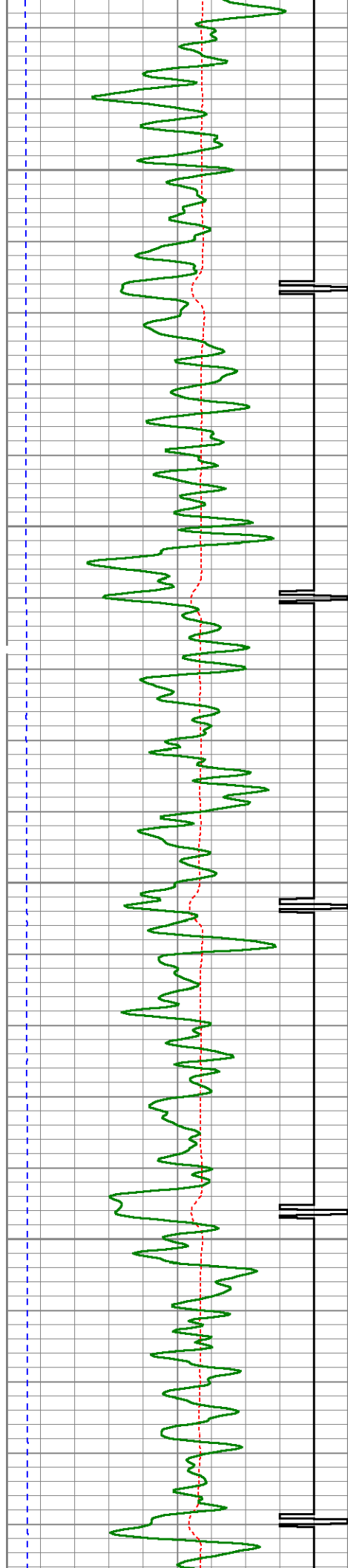
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700

750

800



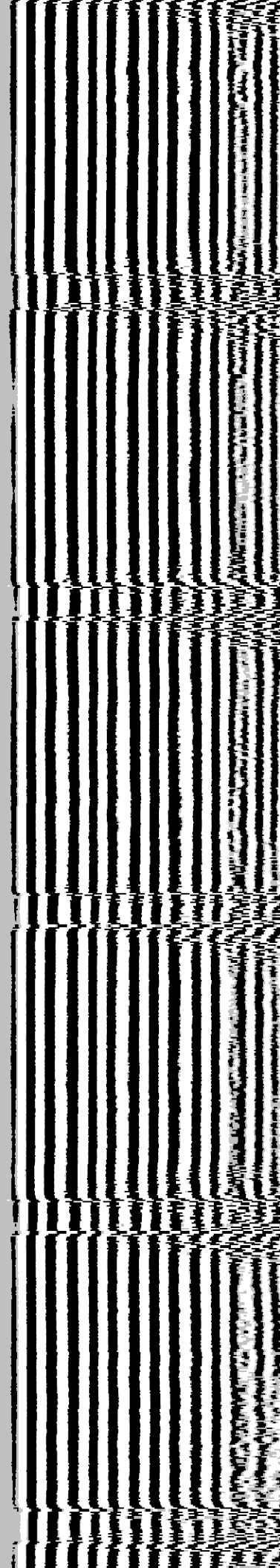
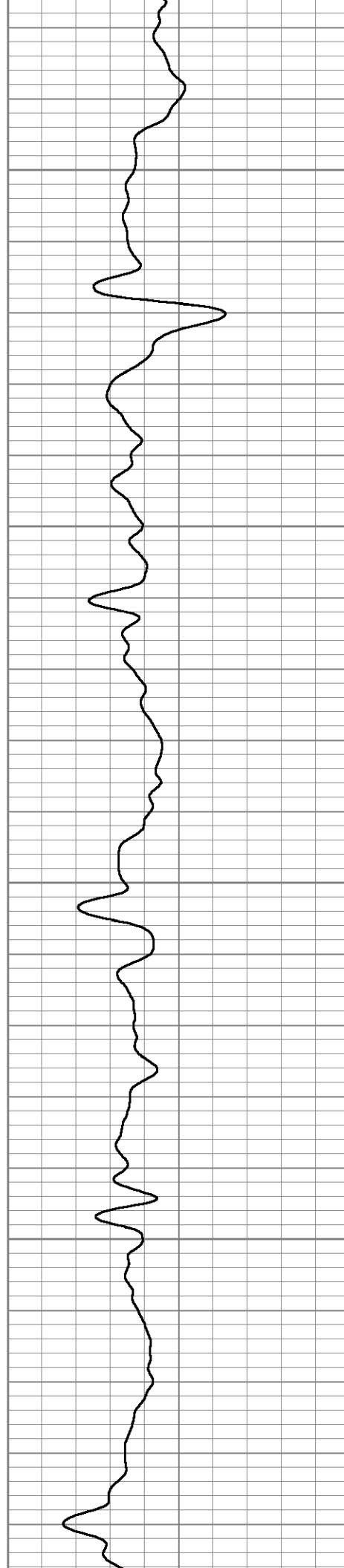


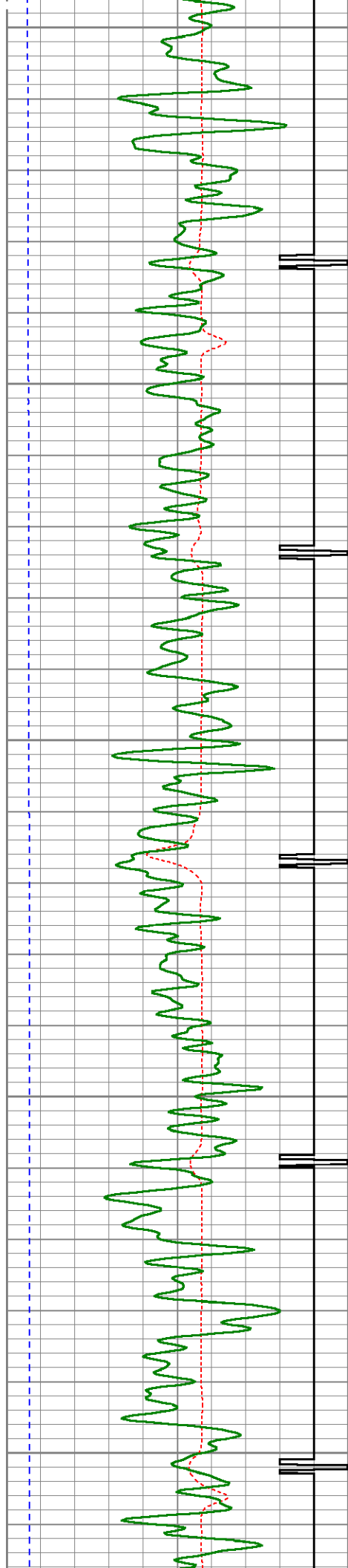
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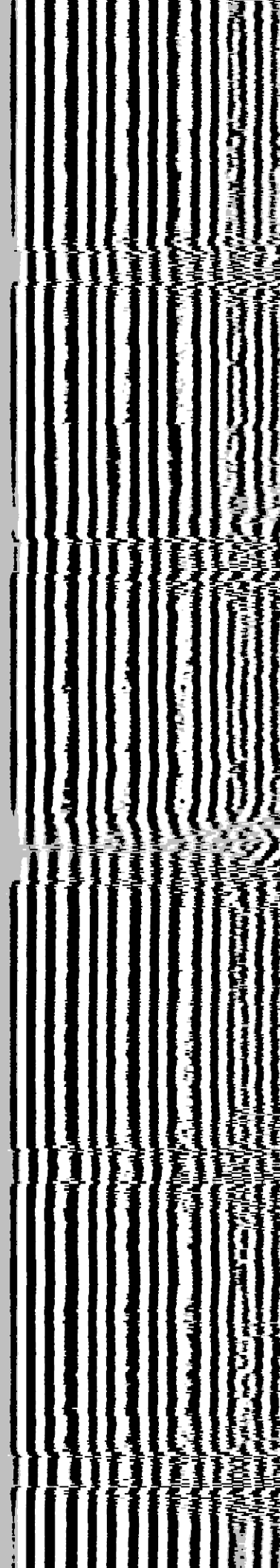
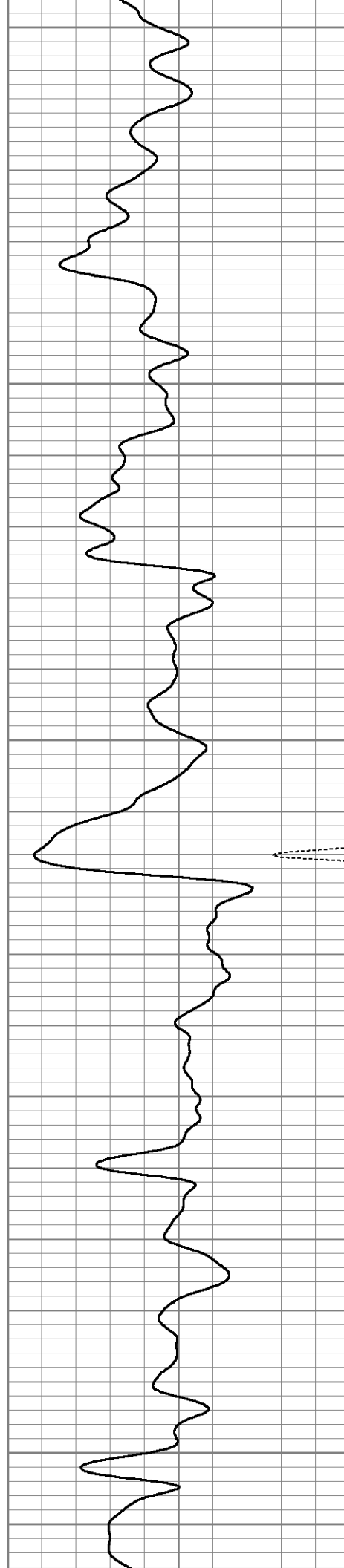
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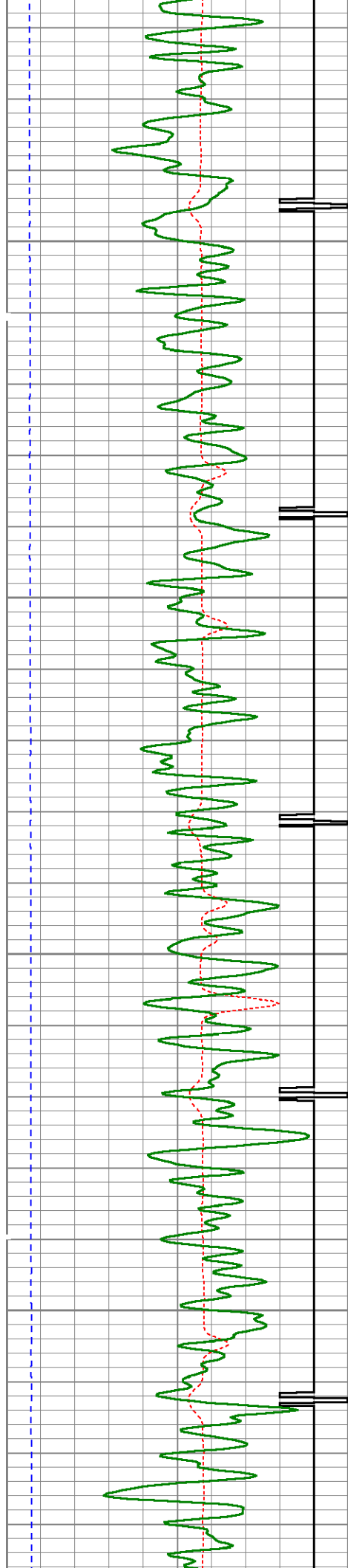
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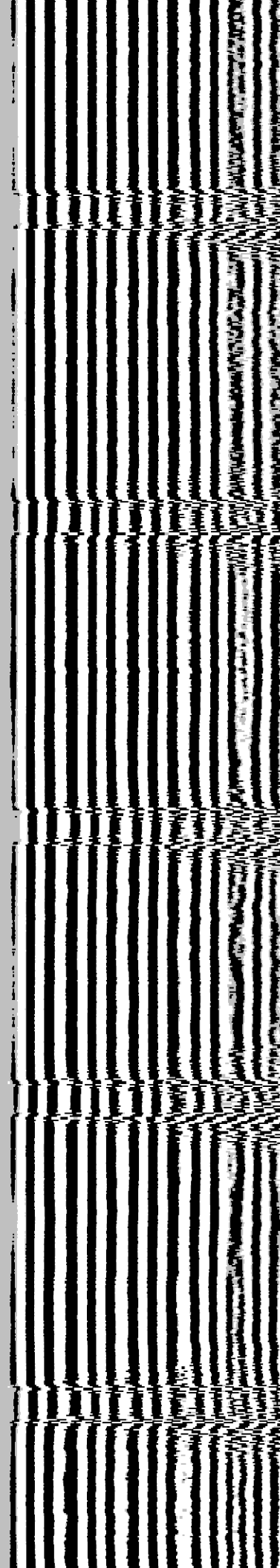
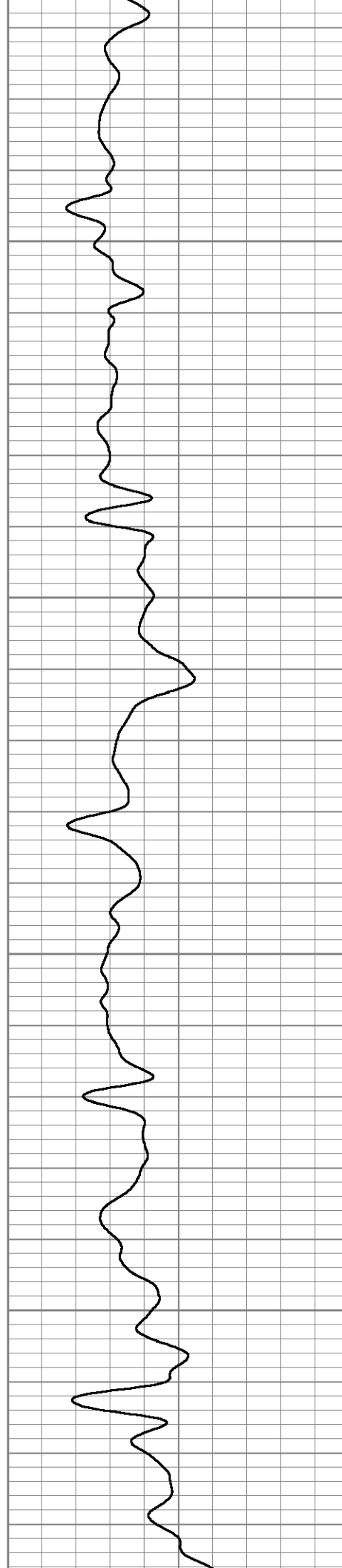


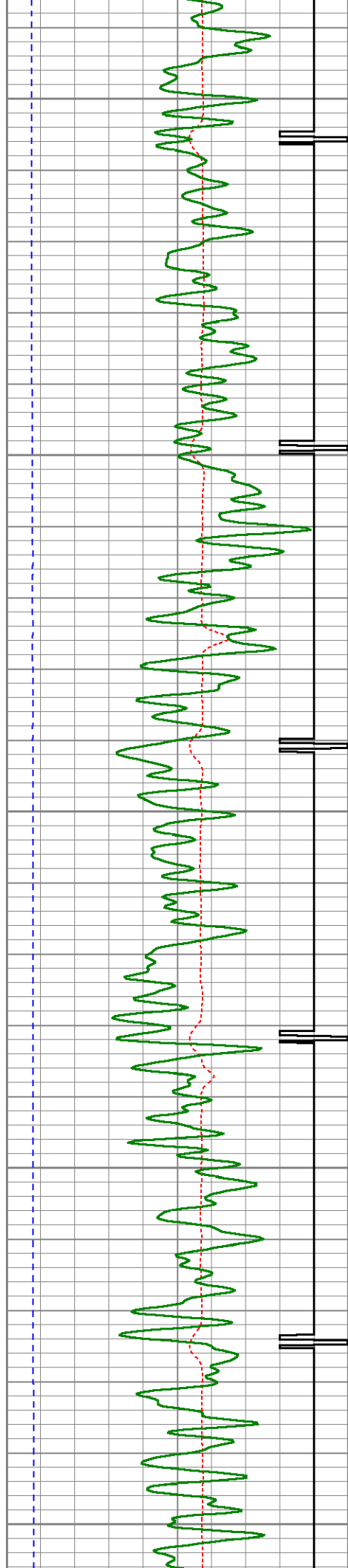
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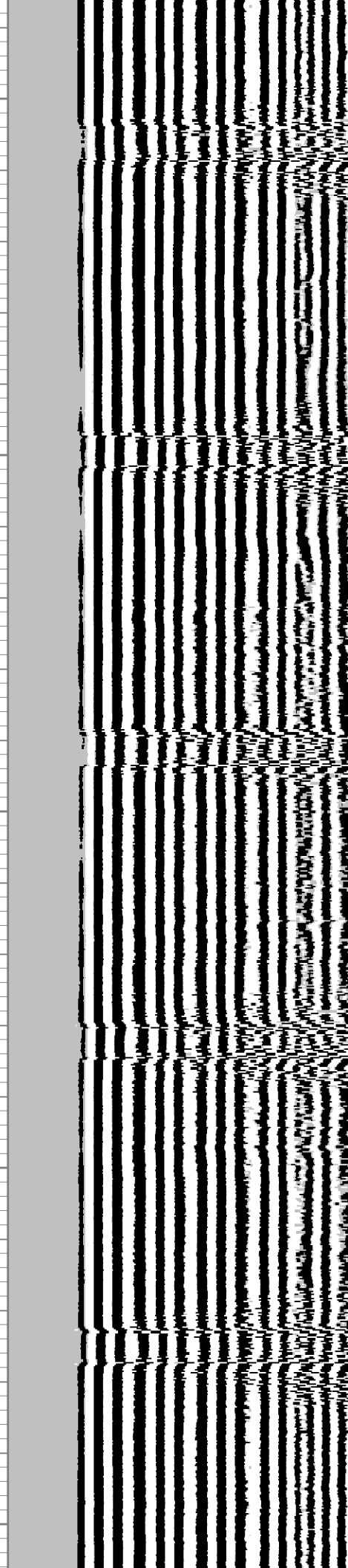
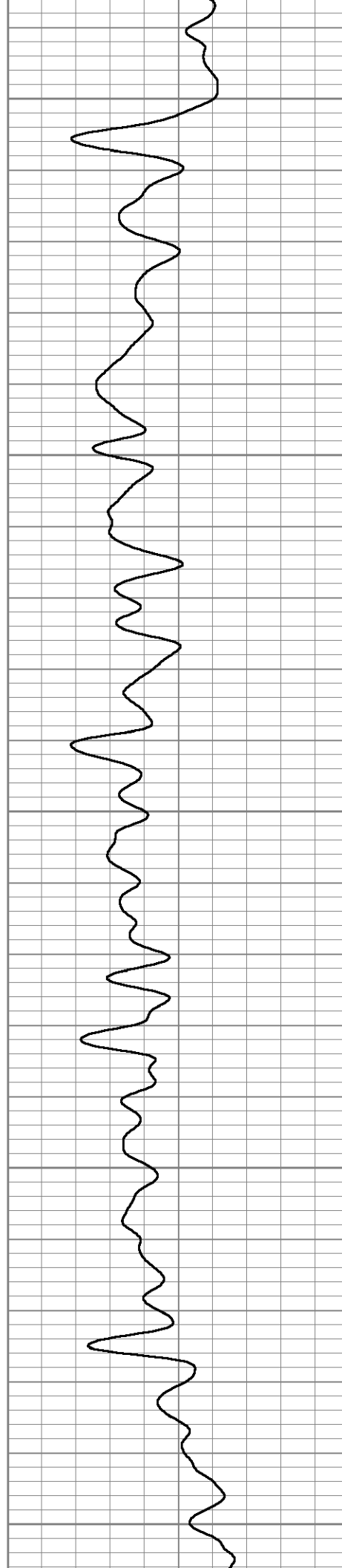
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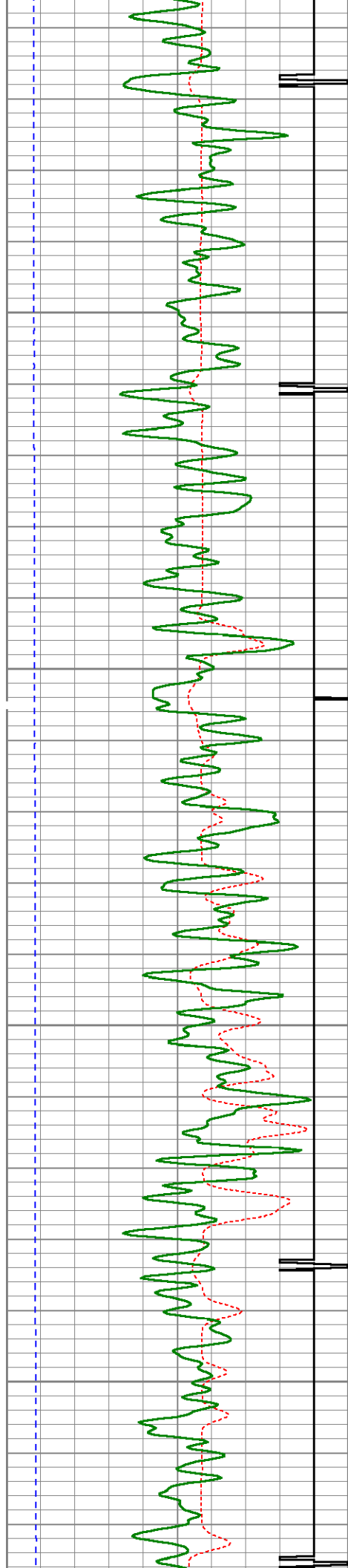
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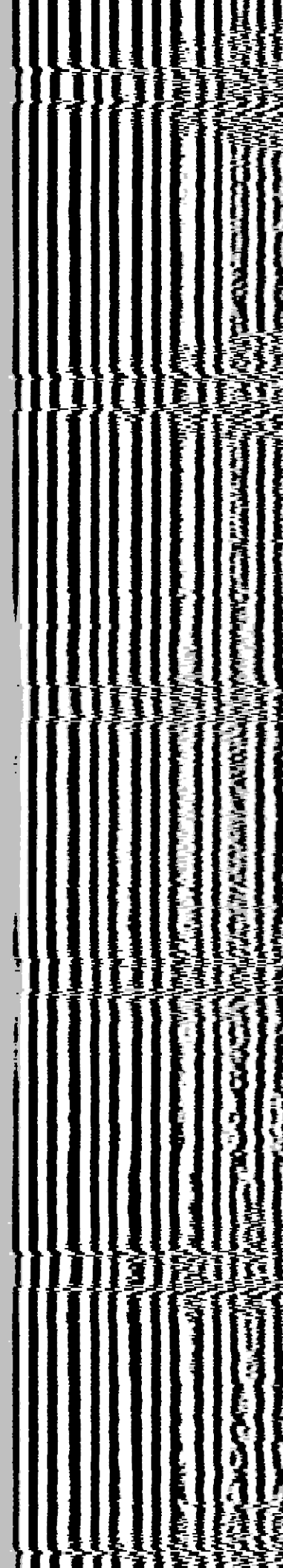
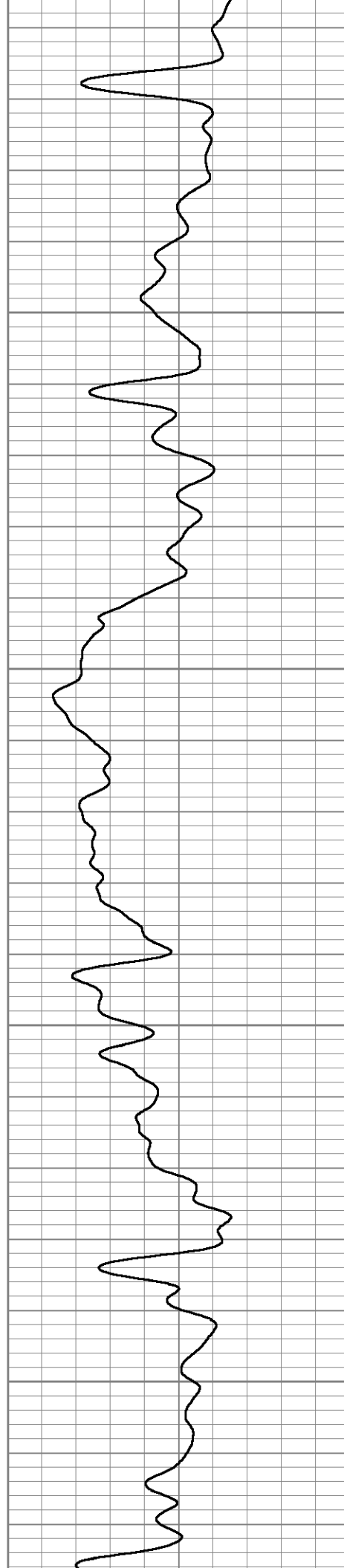


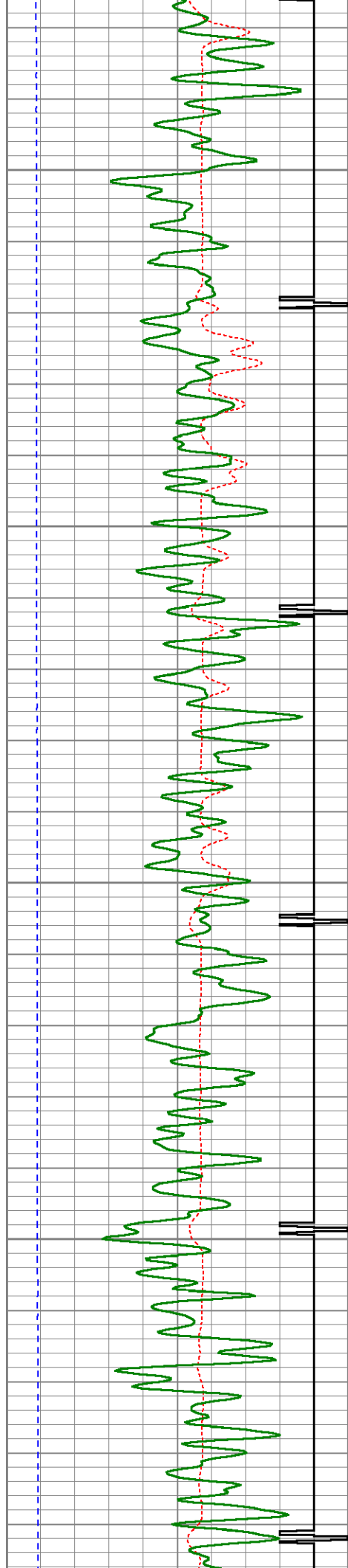
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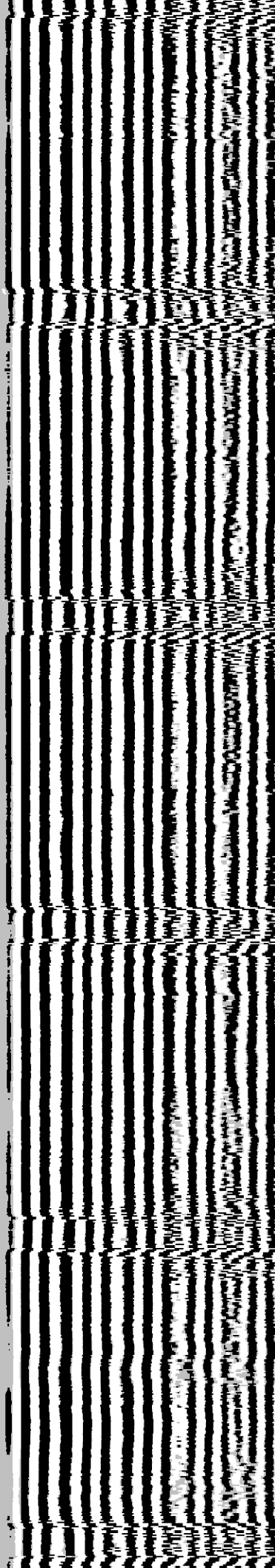
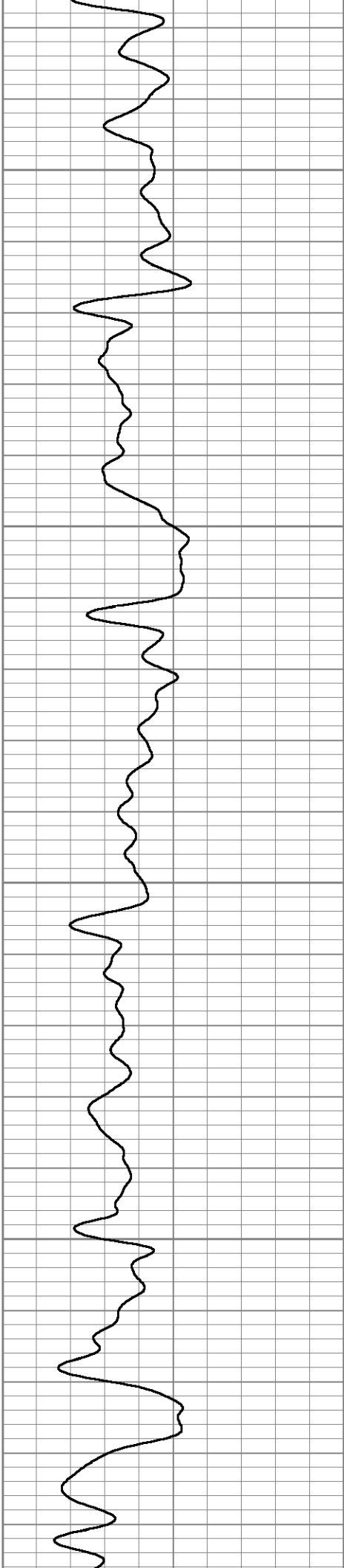


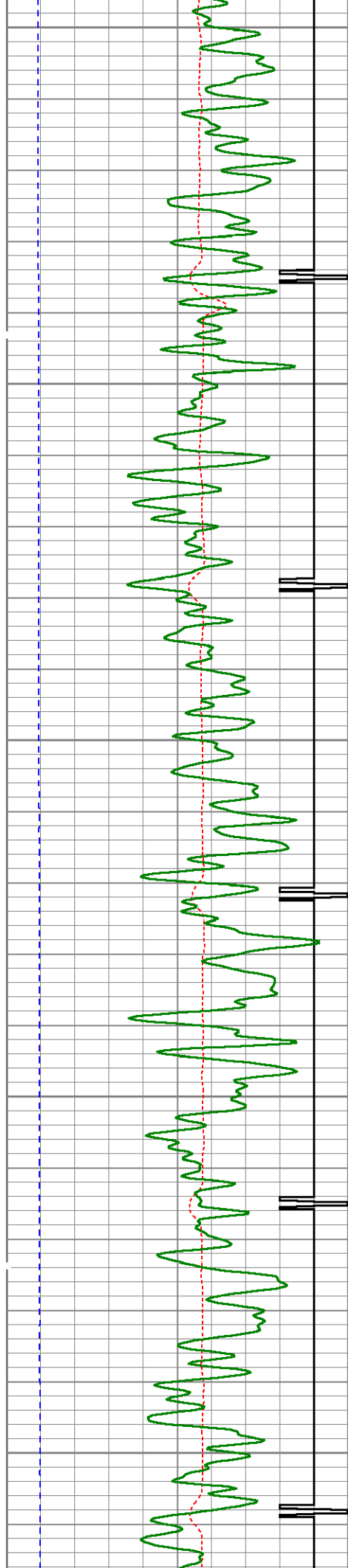
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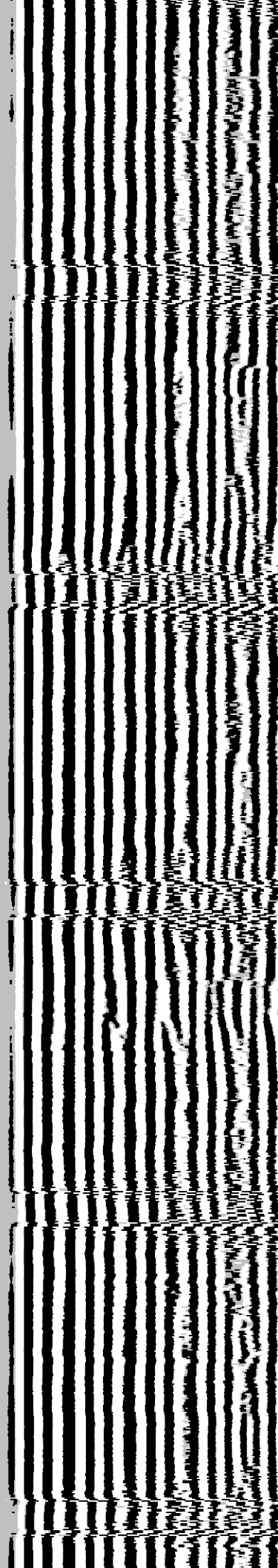
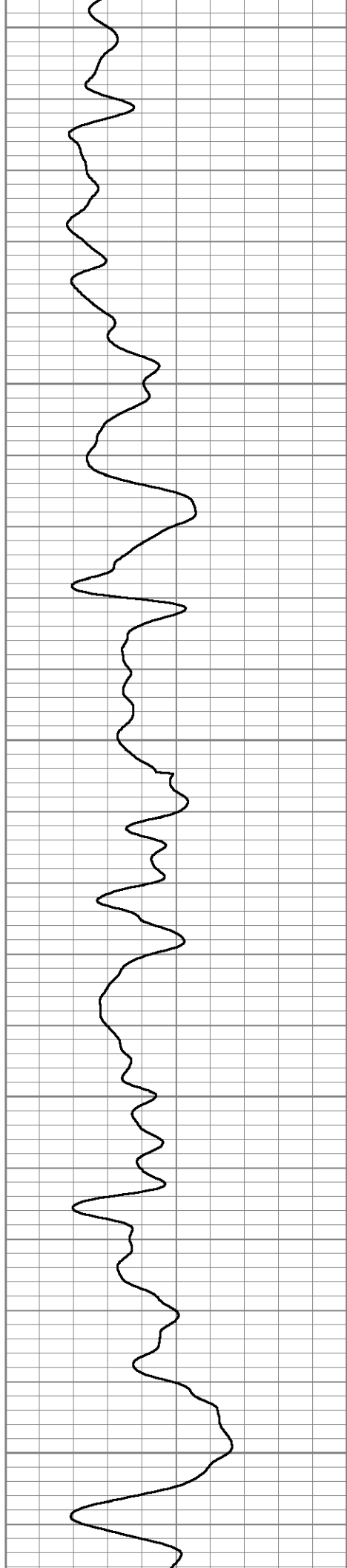
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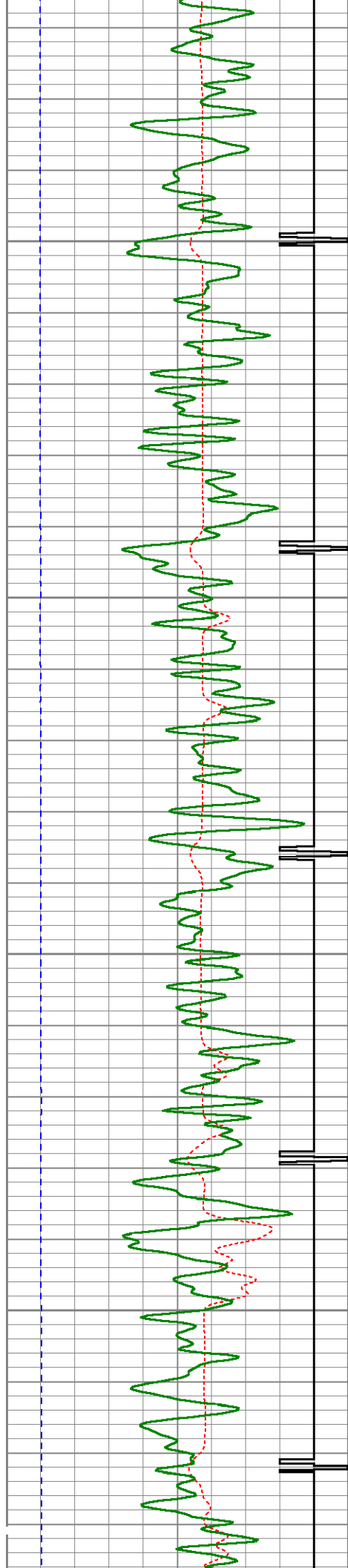
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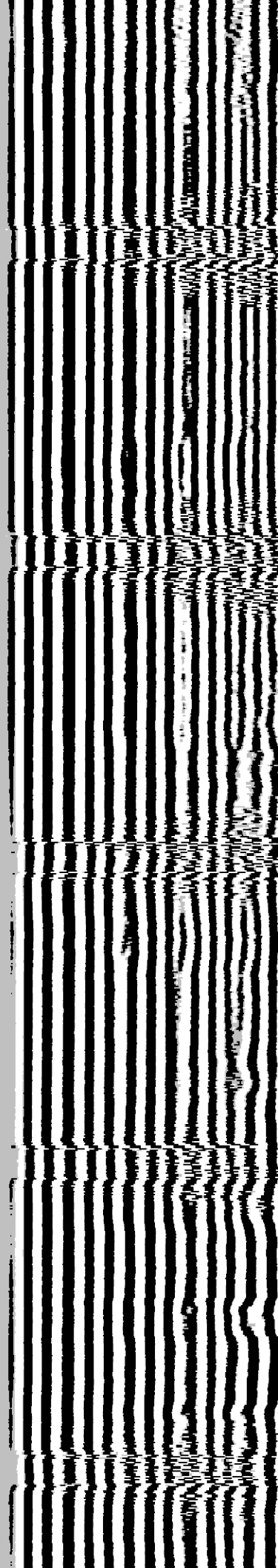
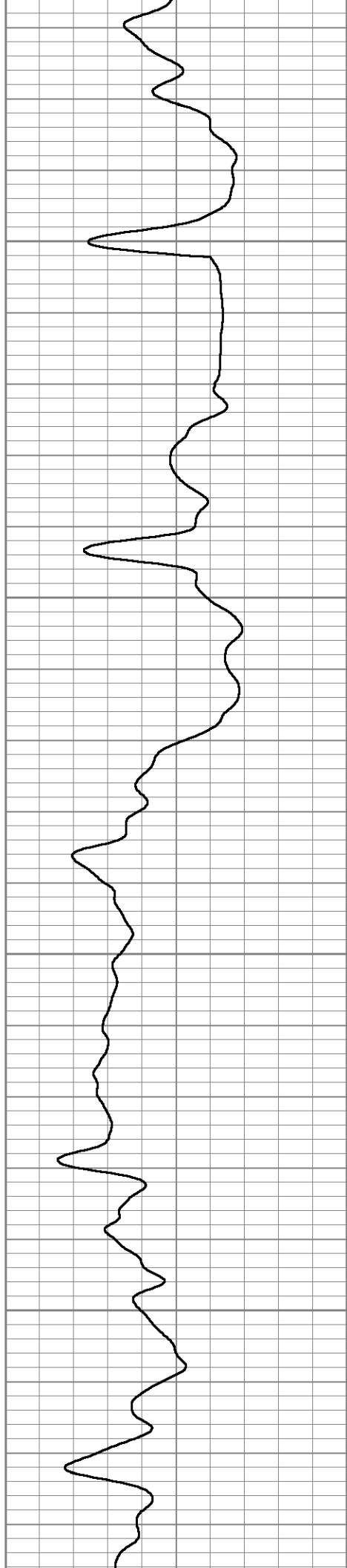


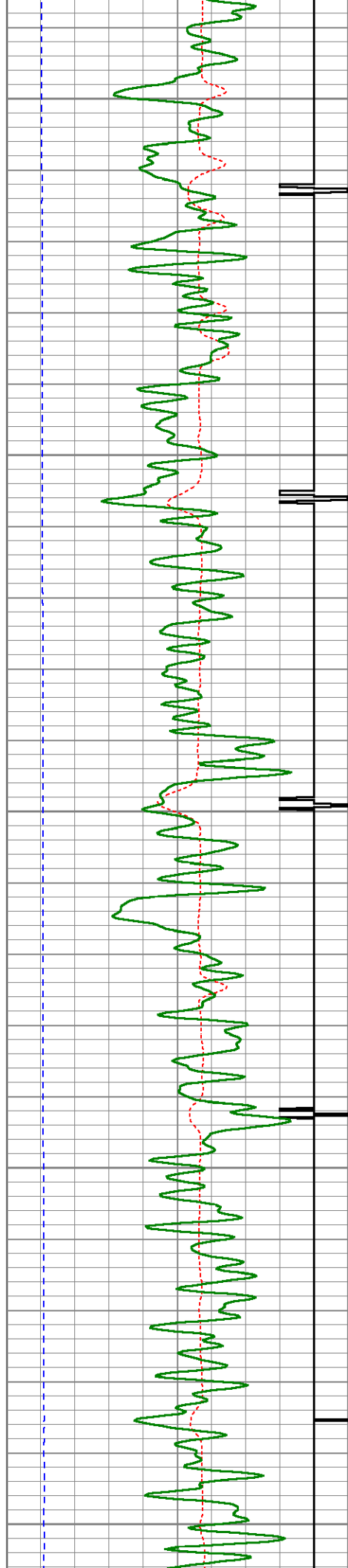
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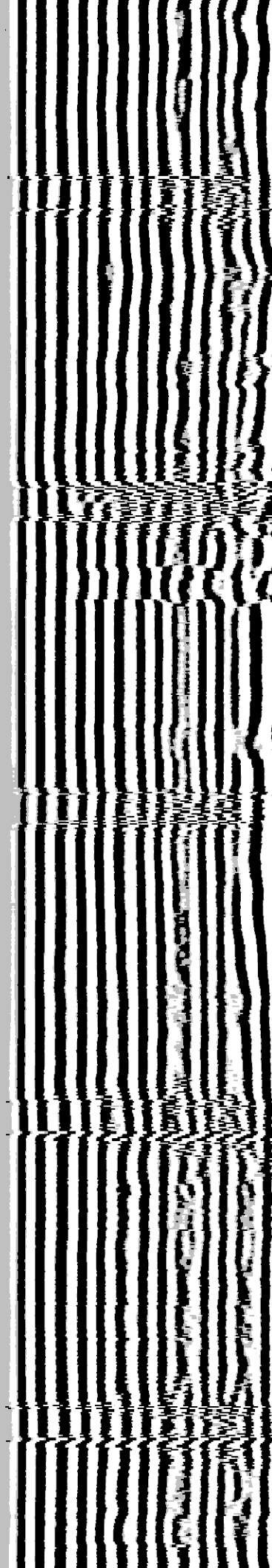
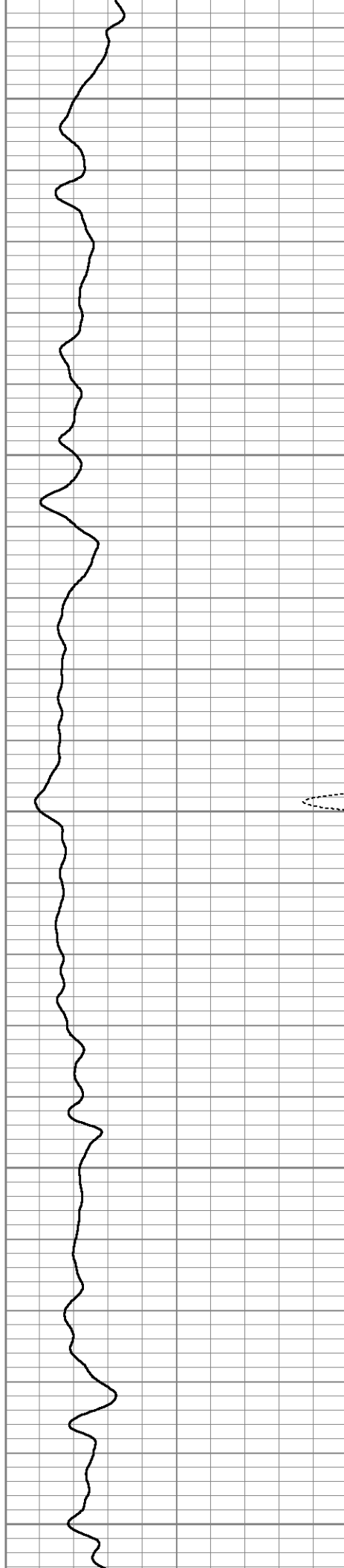
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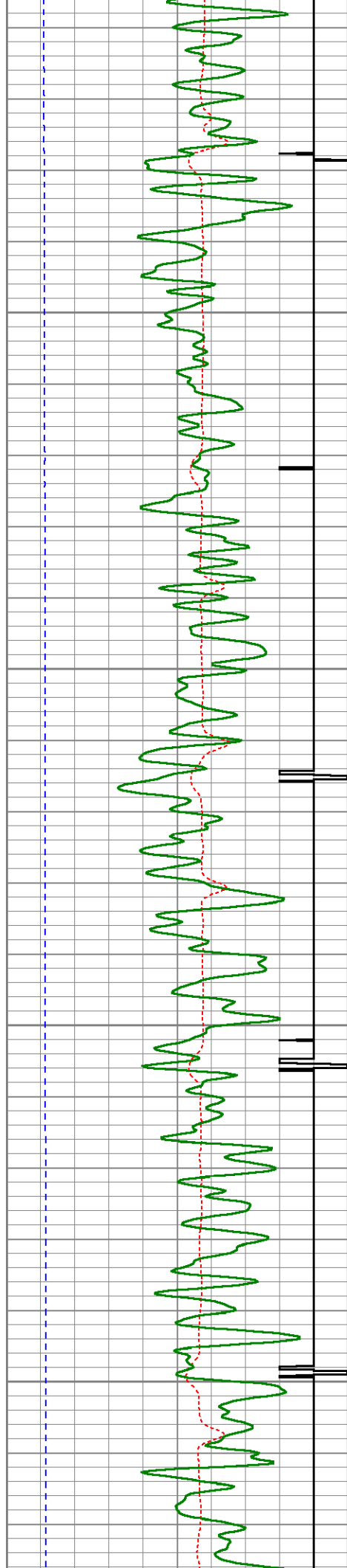
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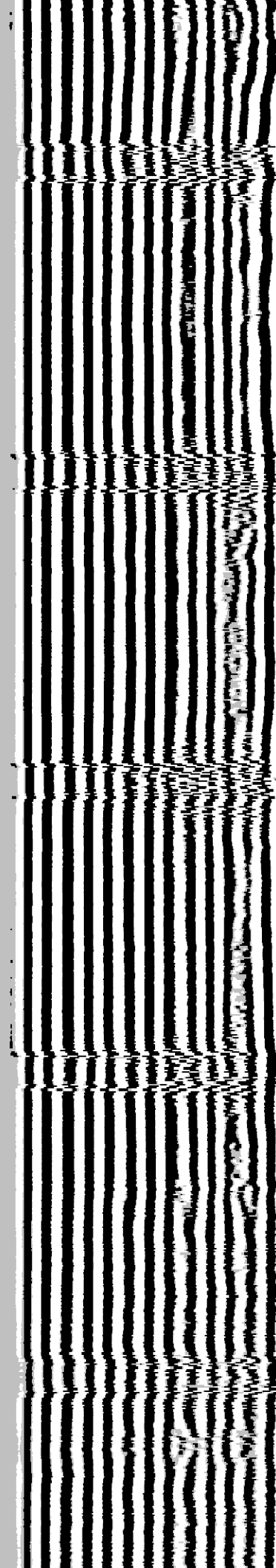
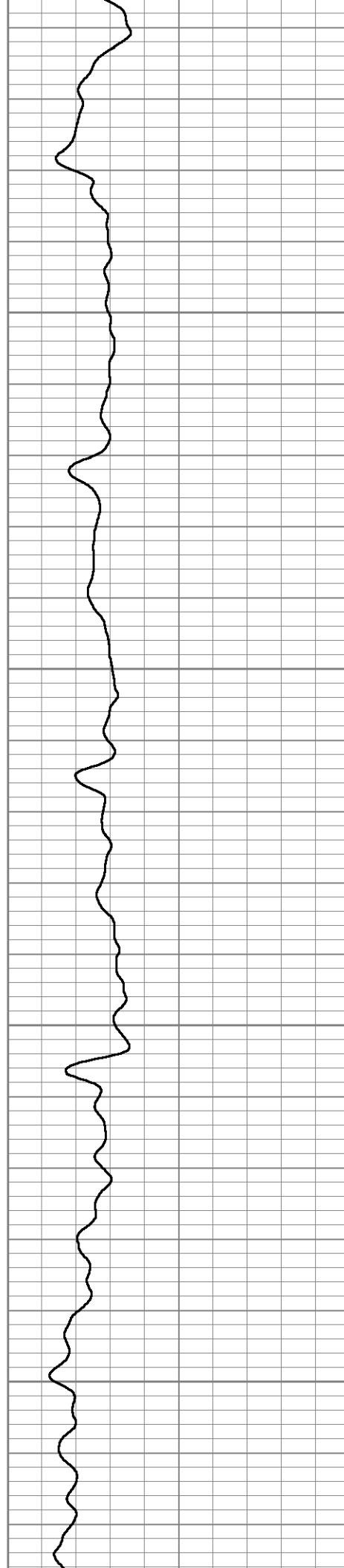


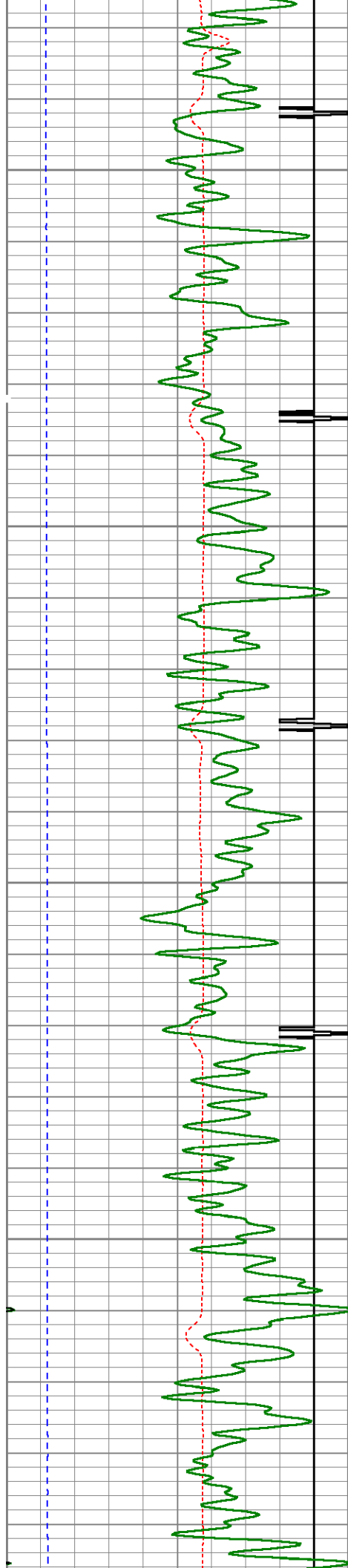
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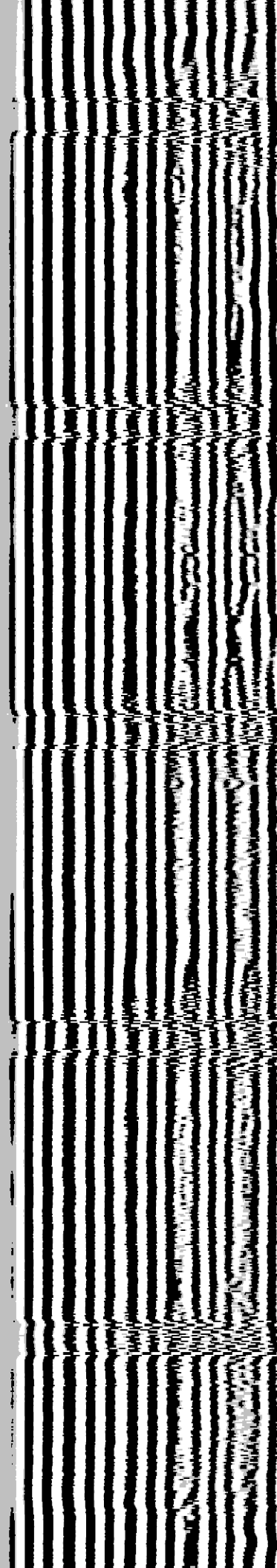
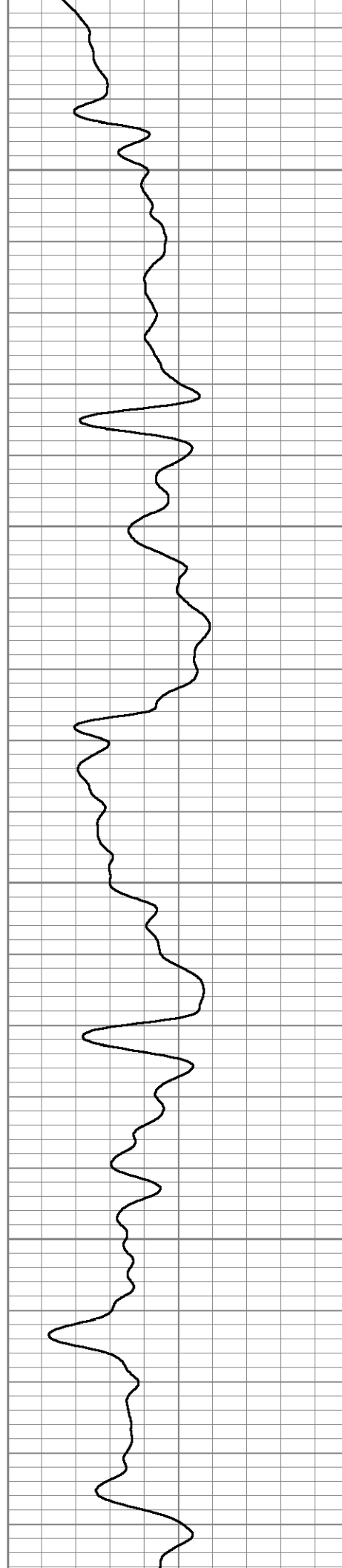


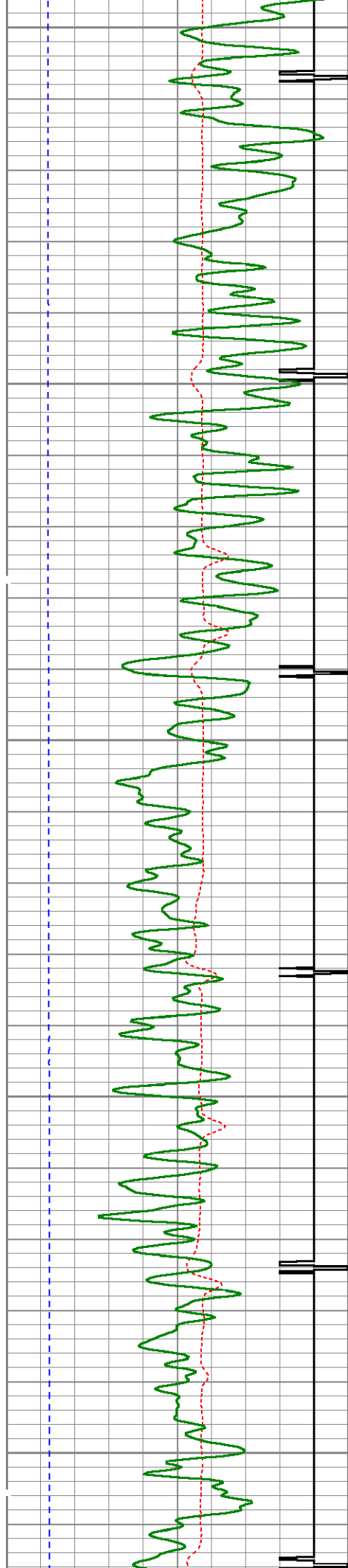
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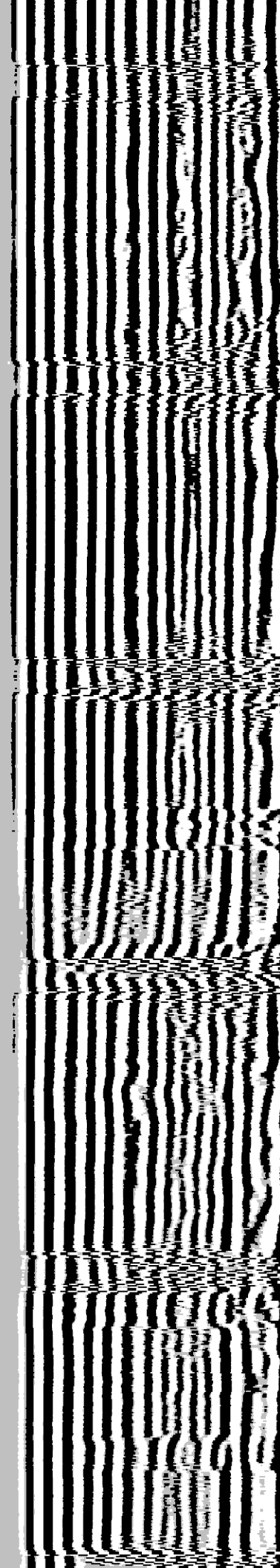
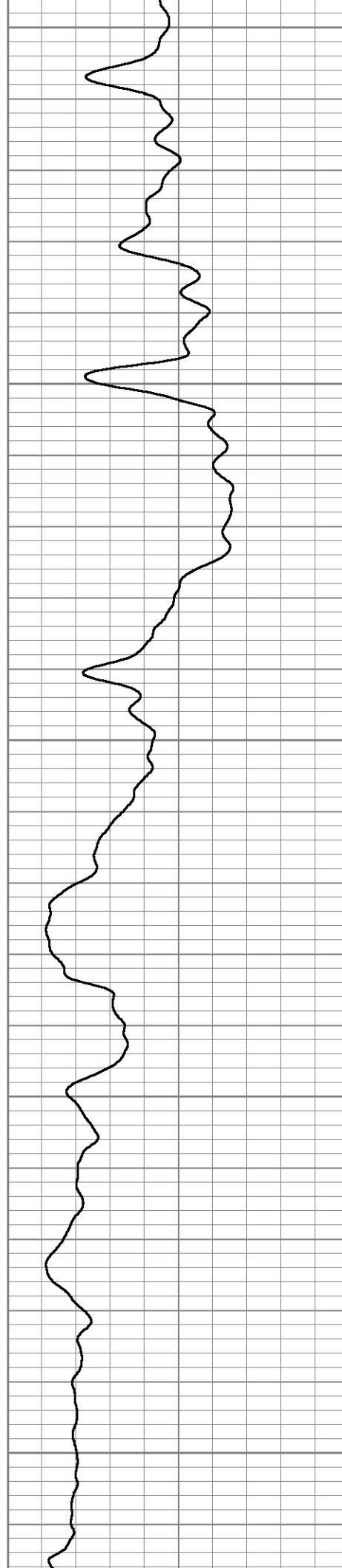
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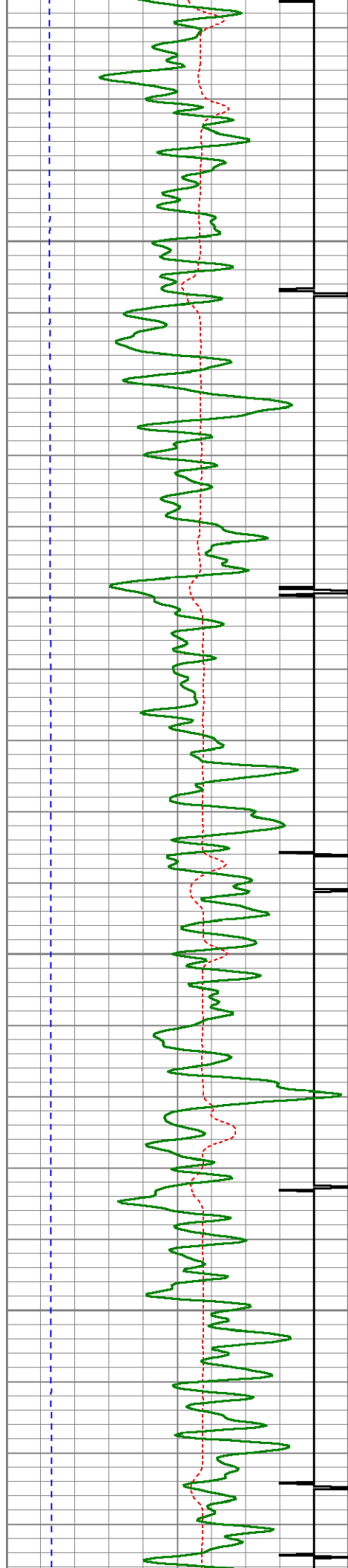
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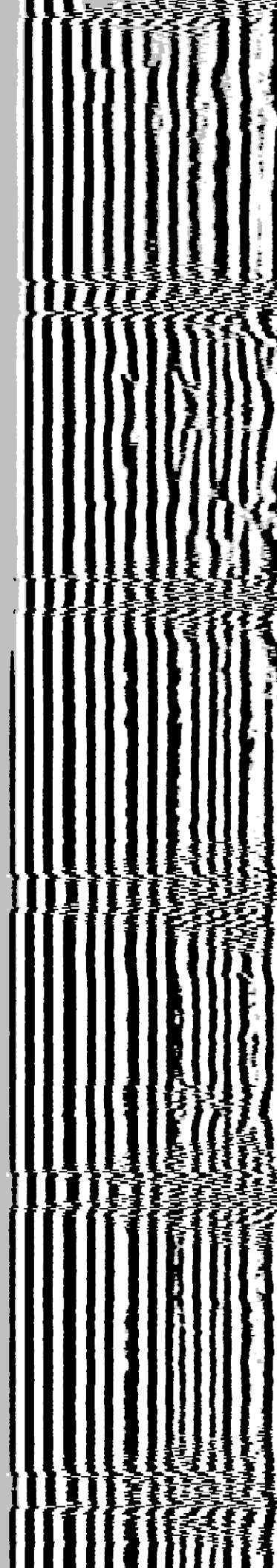
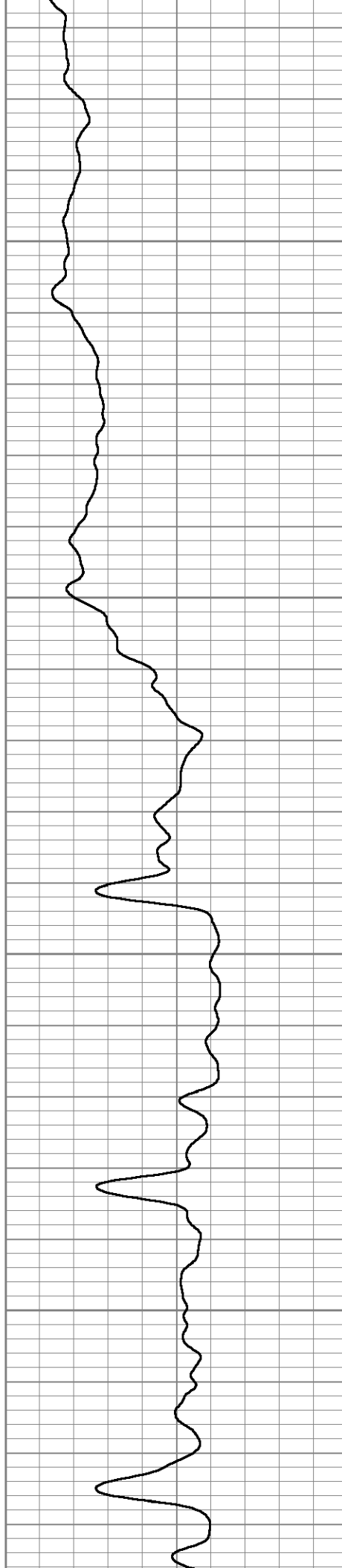


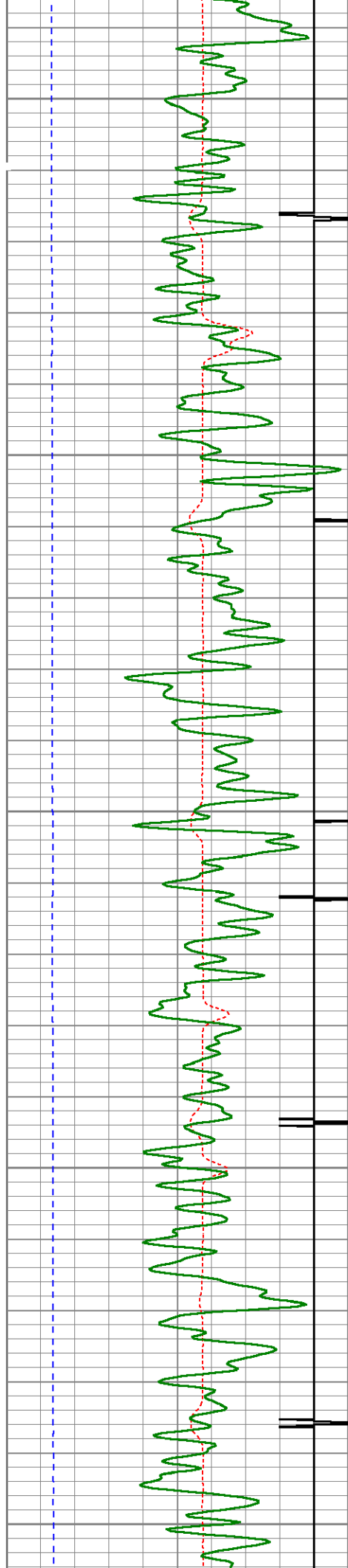
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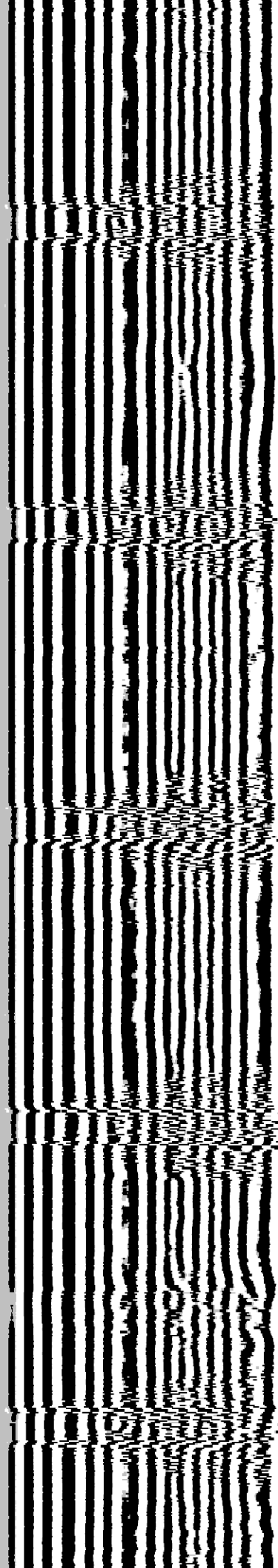
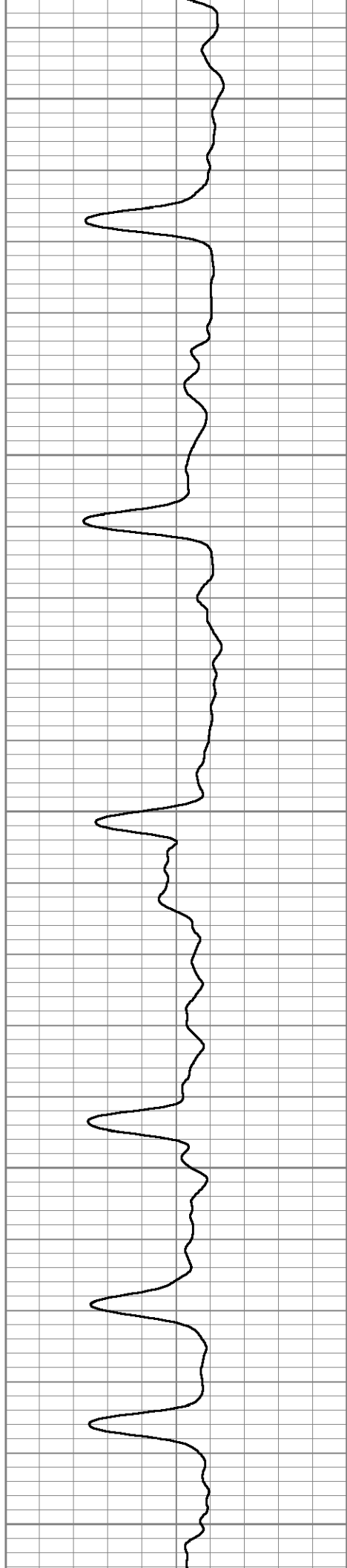
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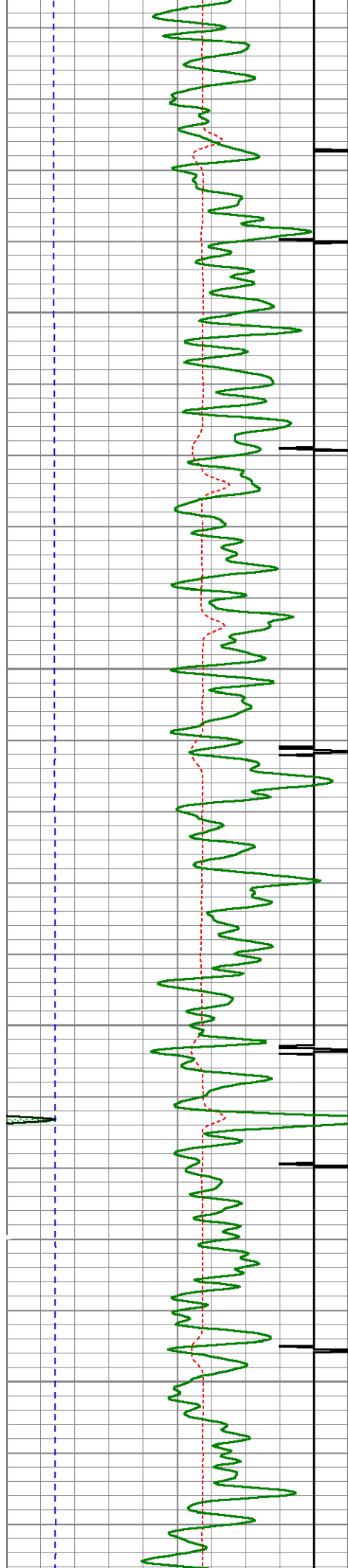
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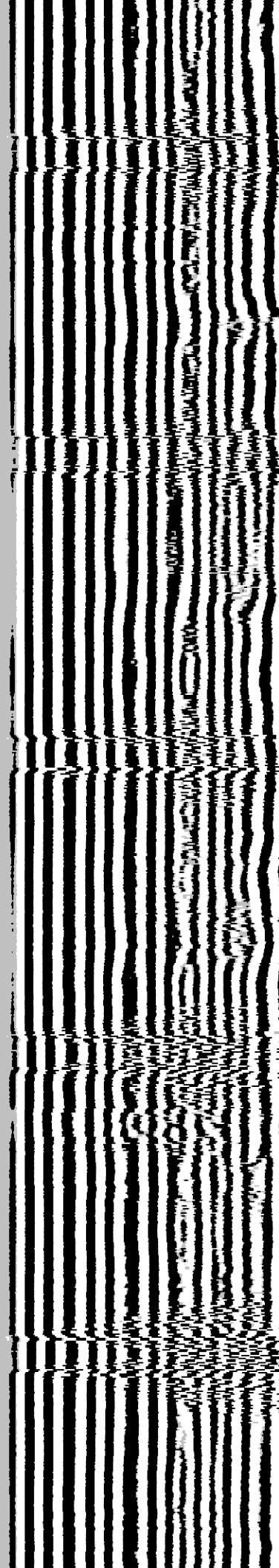
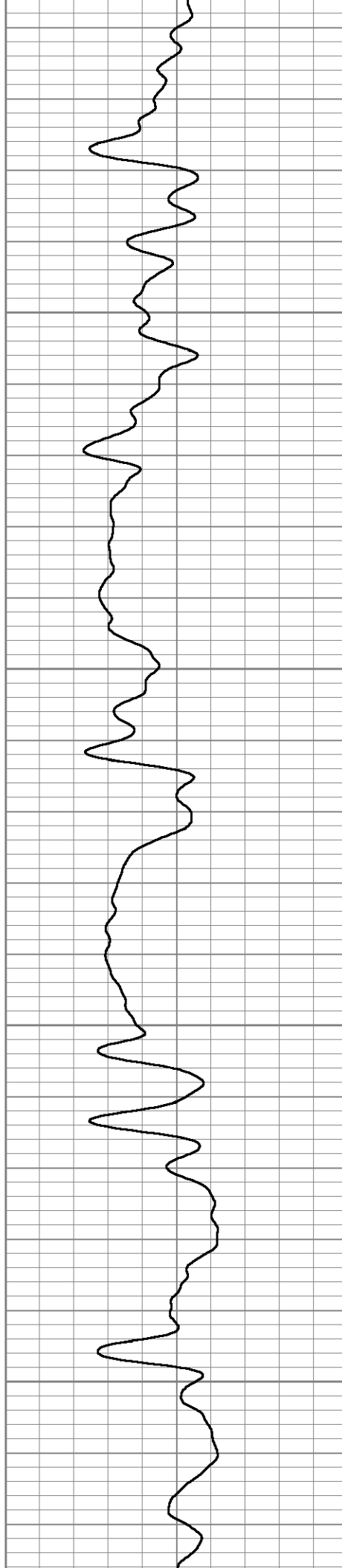


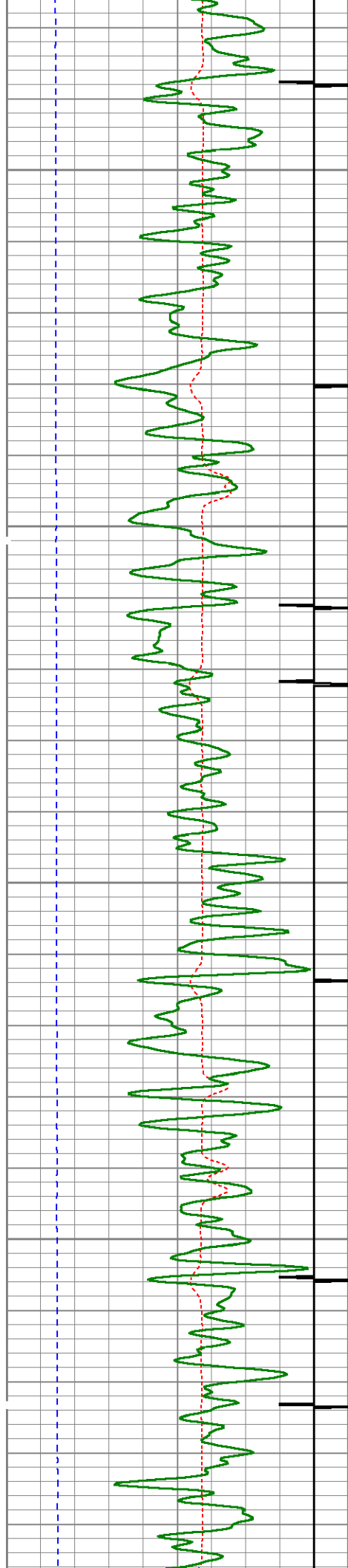
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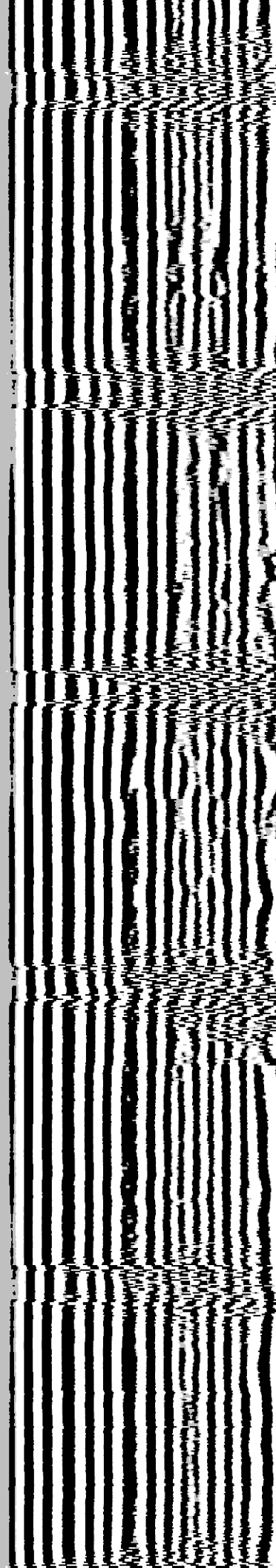
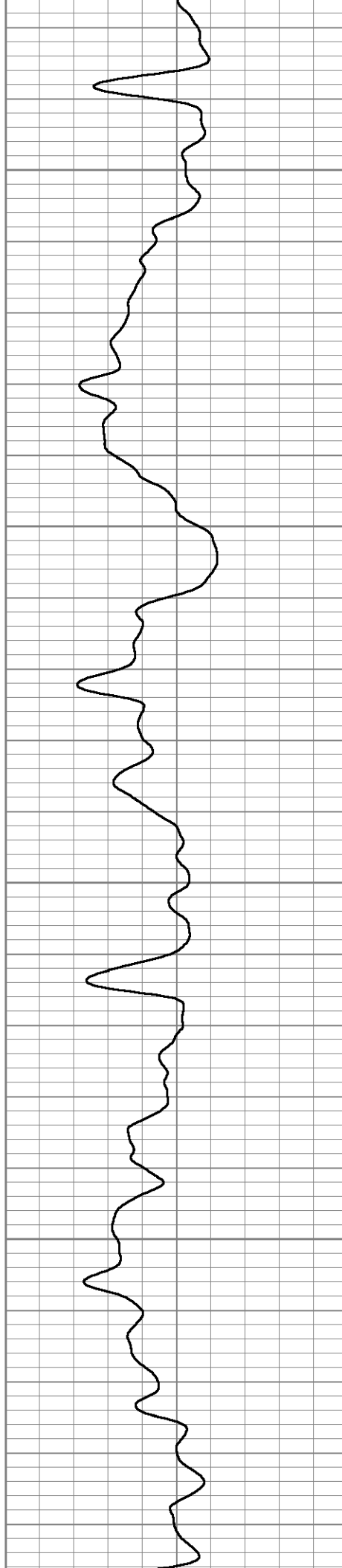


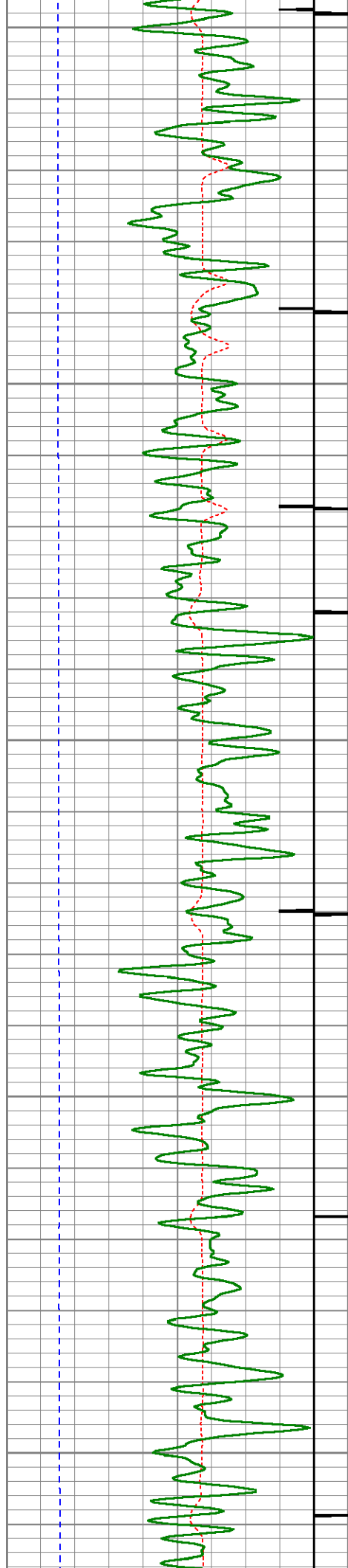
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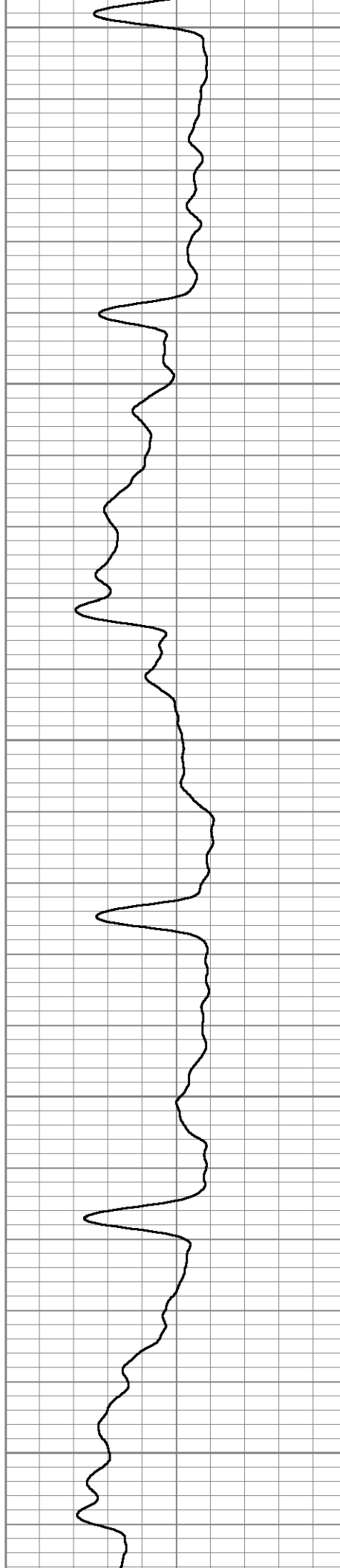
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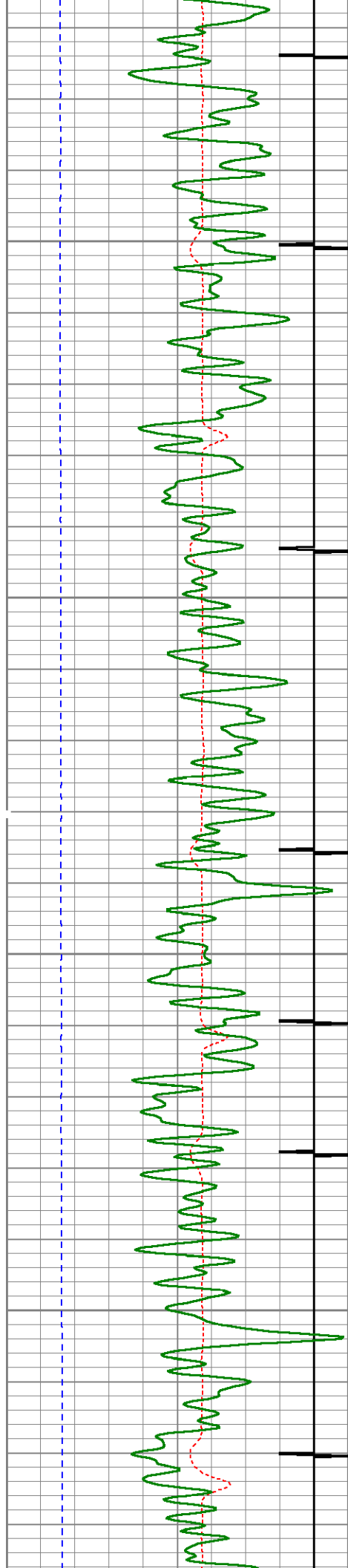
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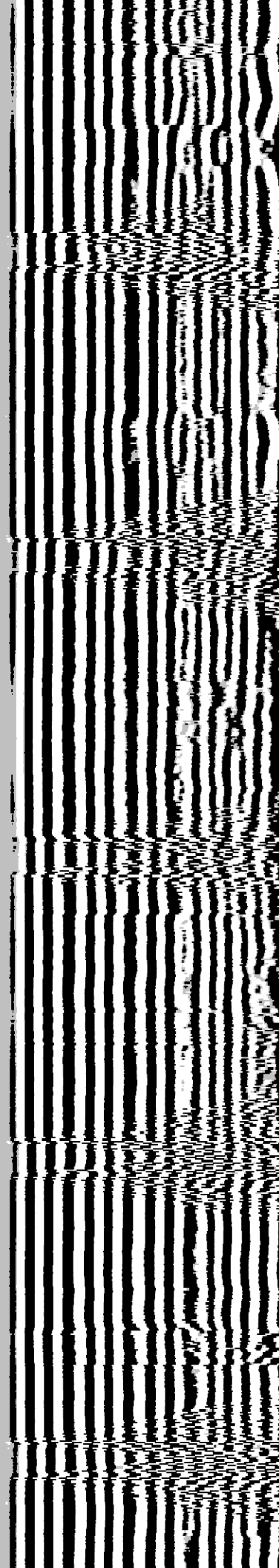
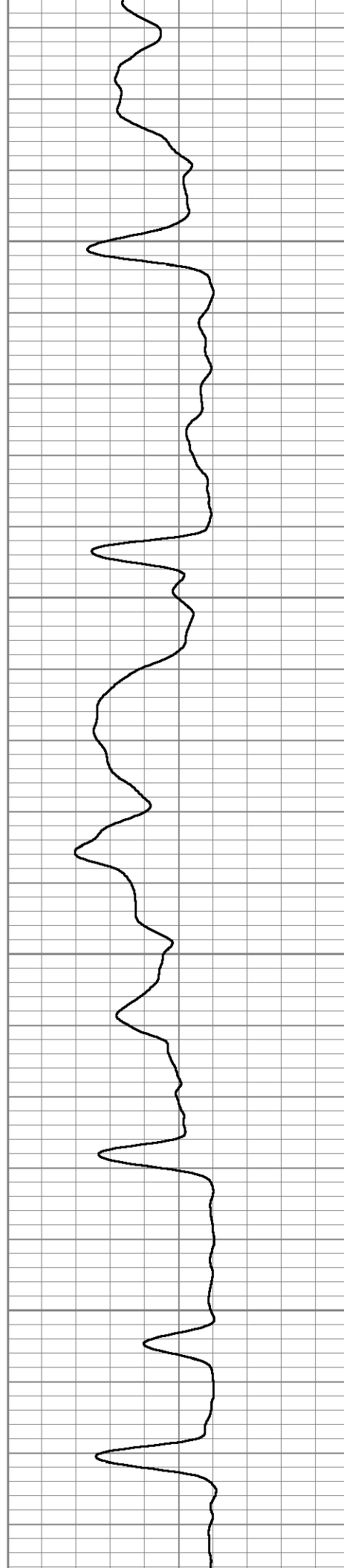


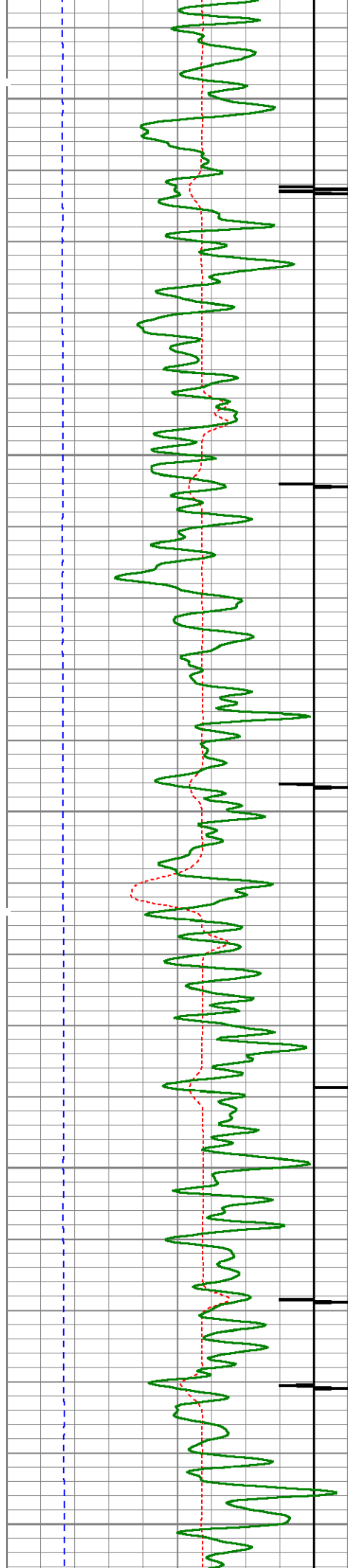
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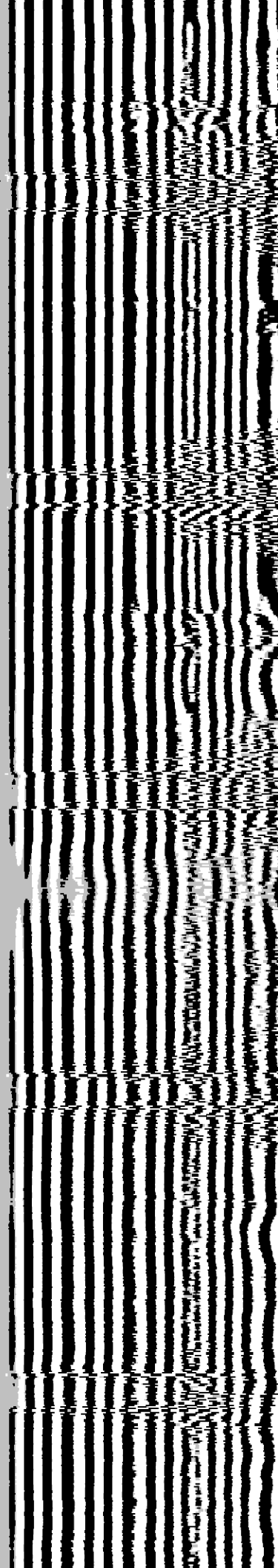
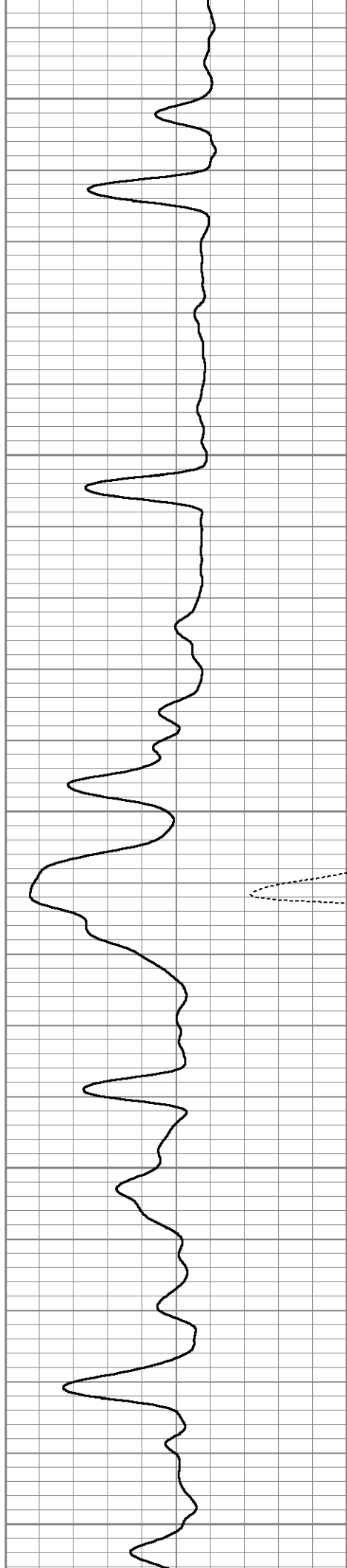
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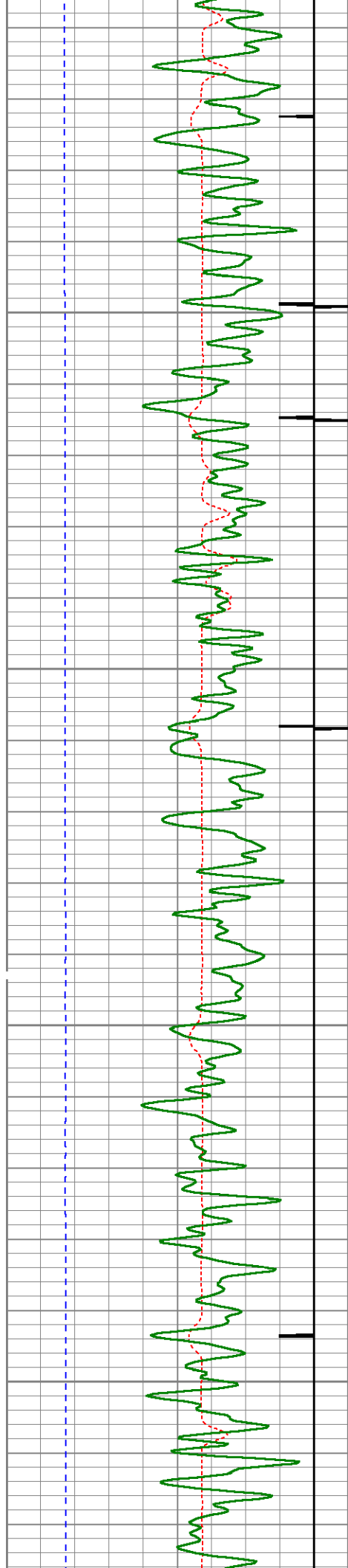
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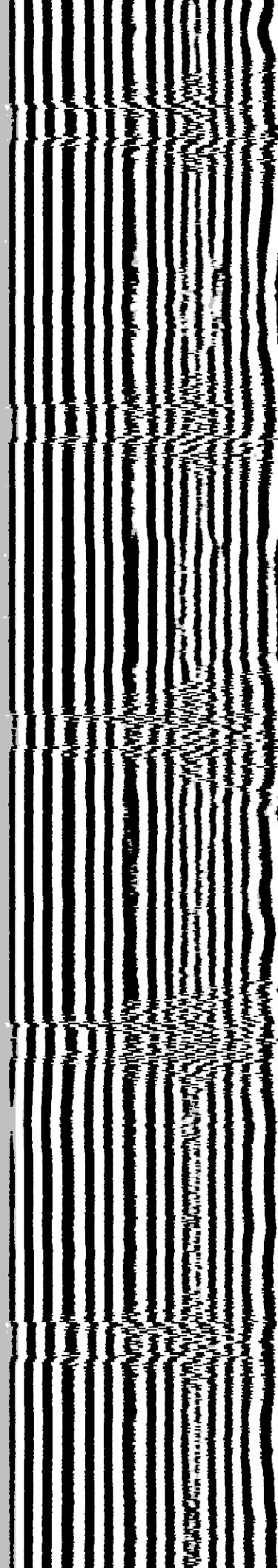
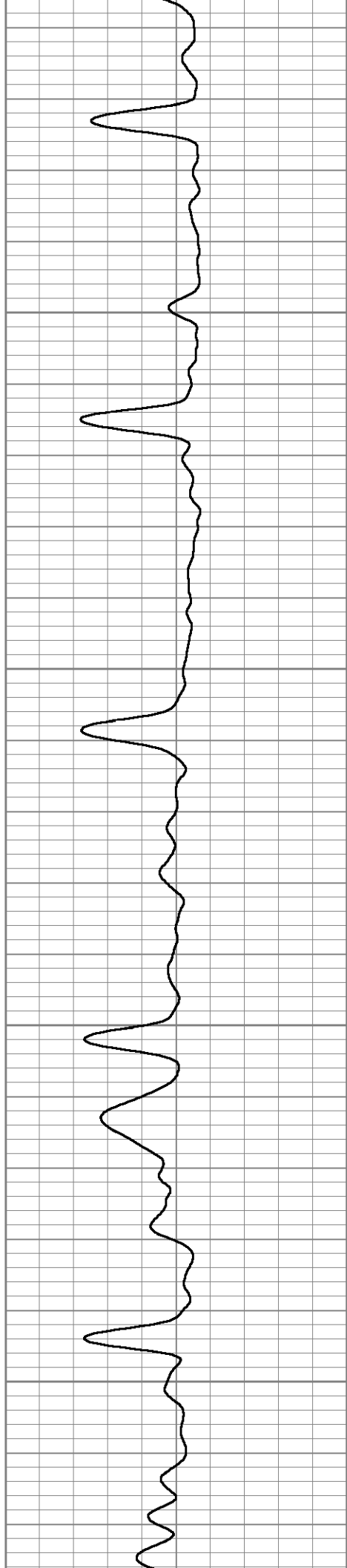


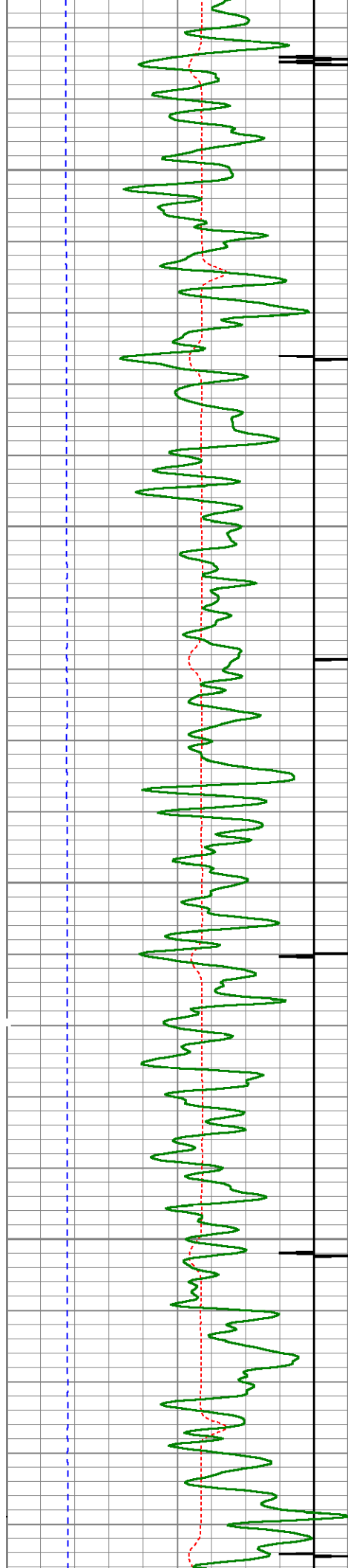
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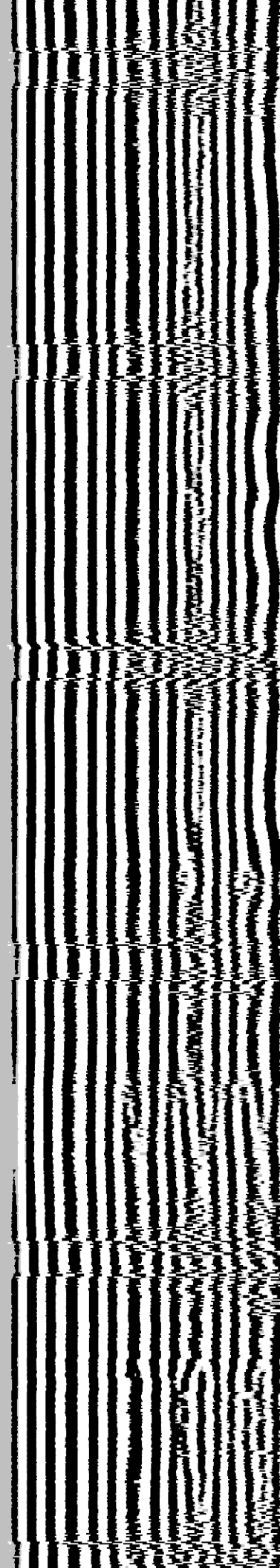
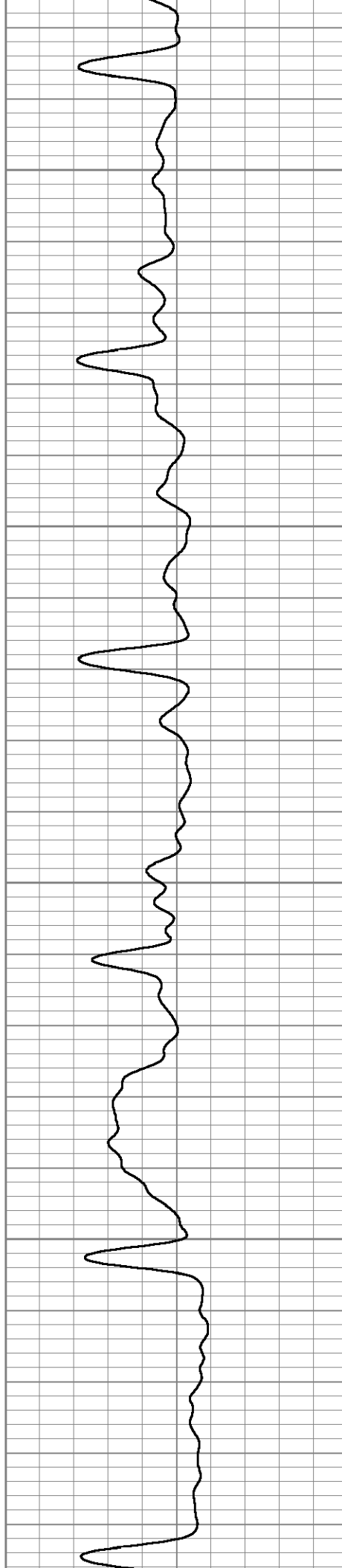


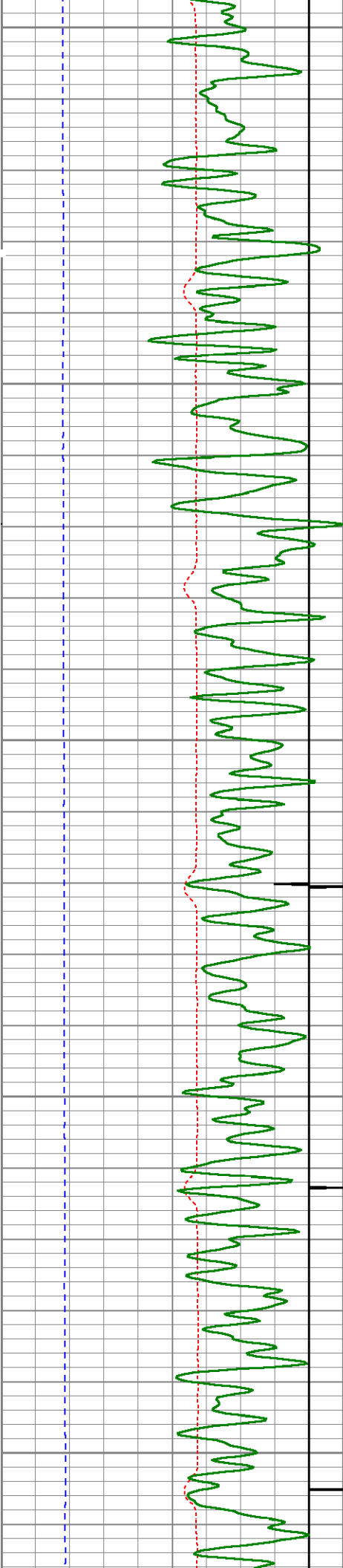
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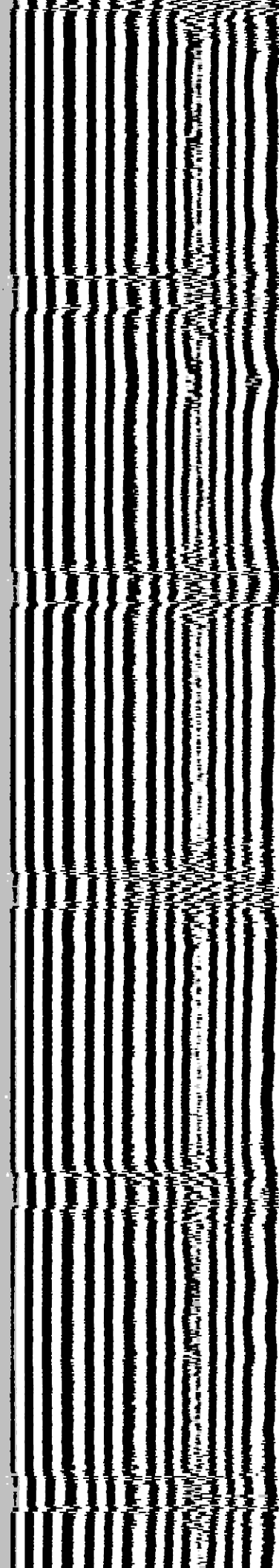
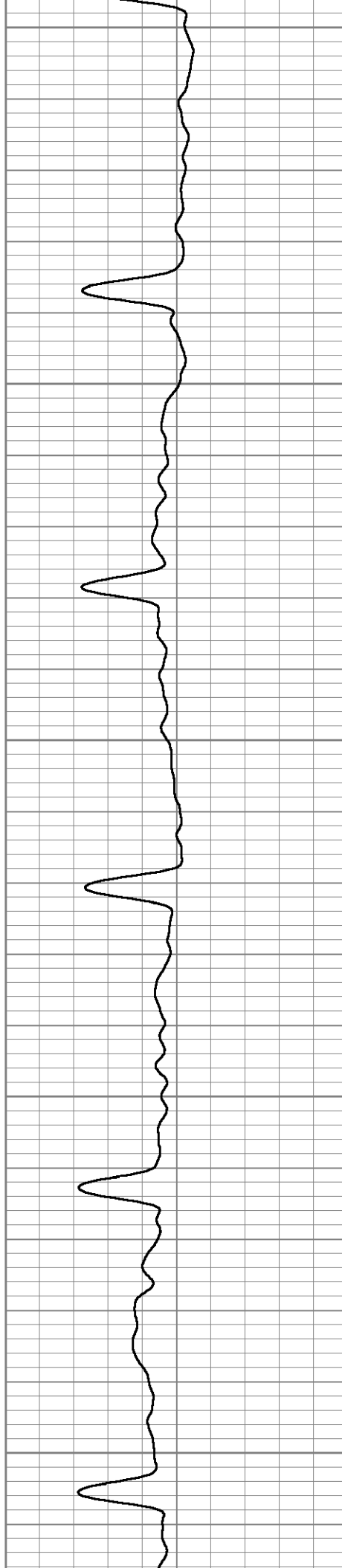
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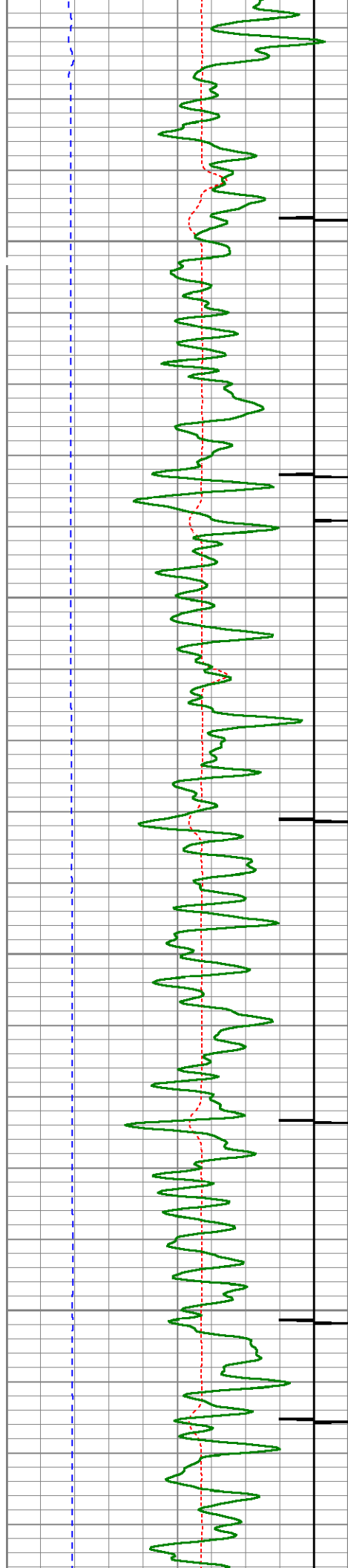
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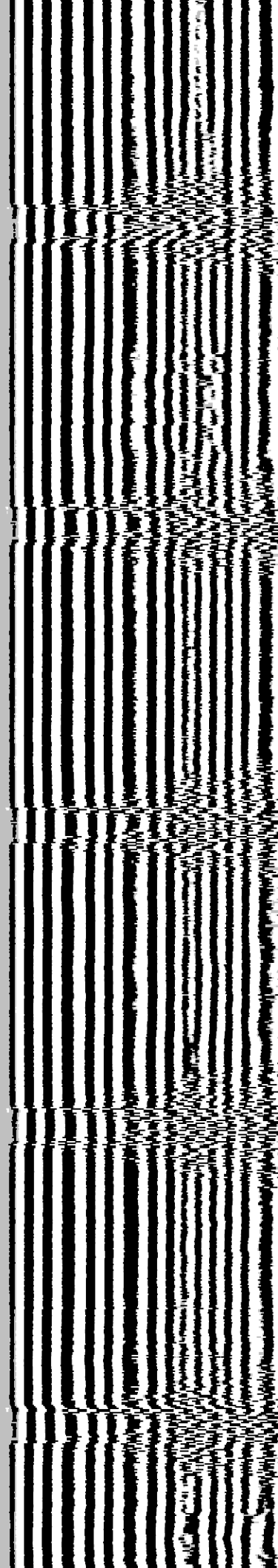
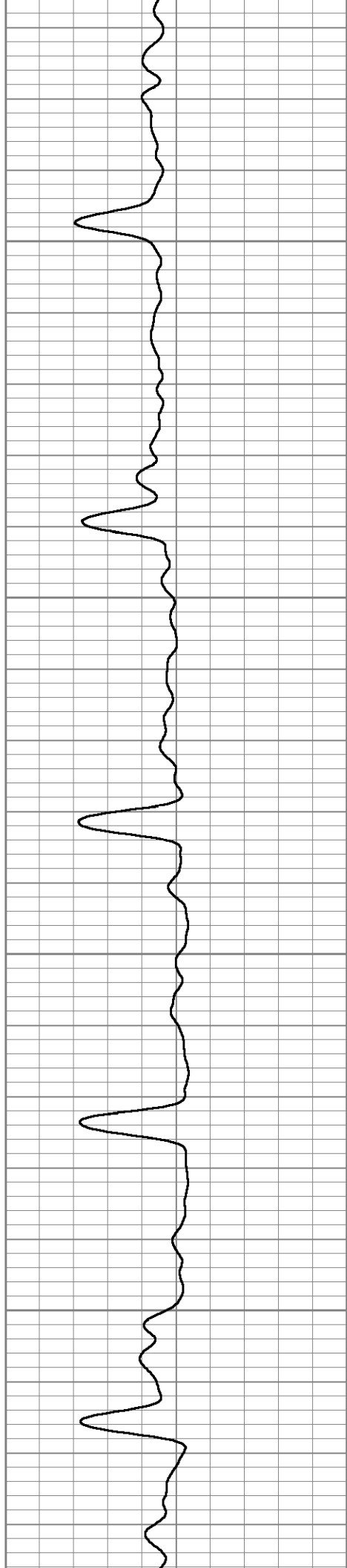


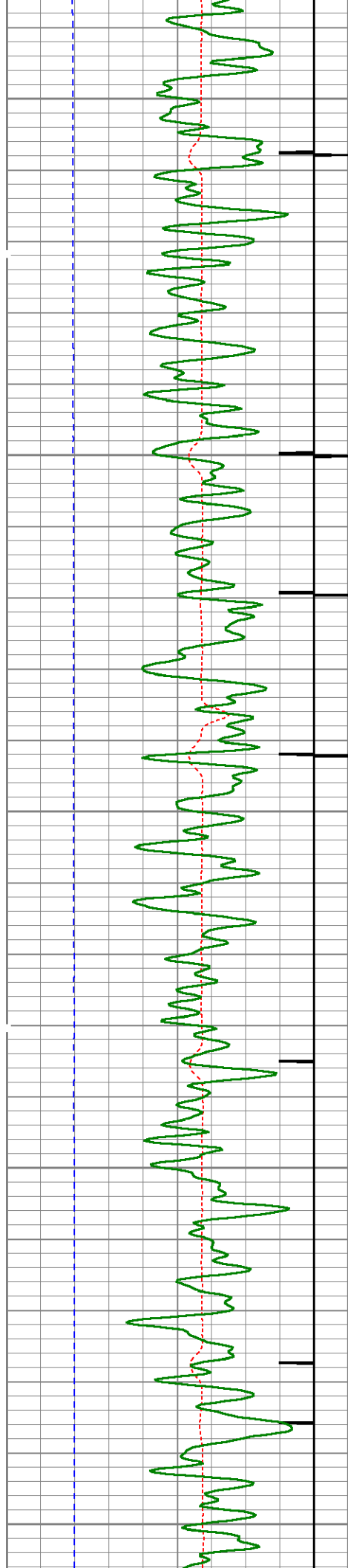
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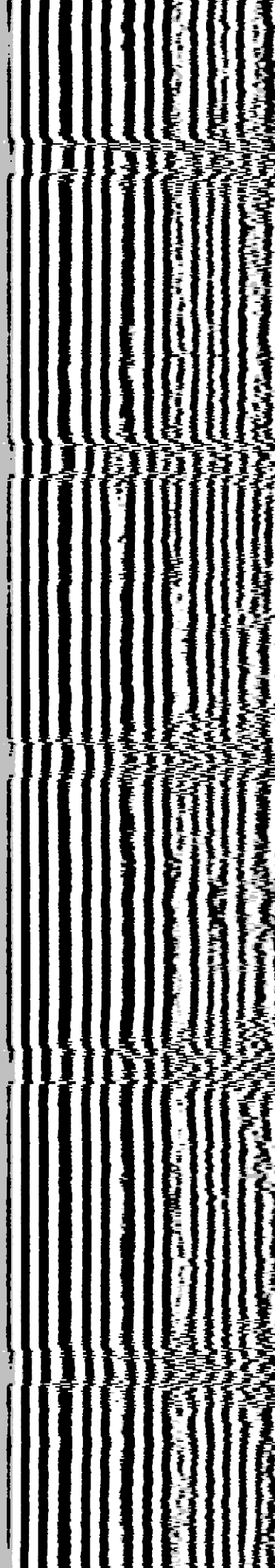
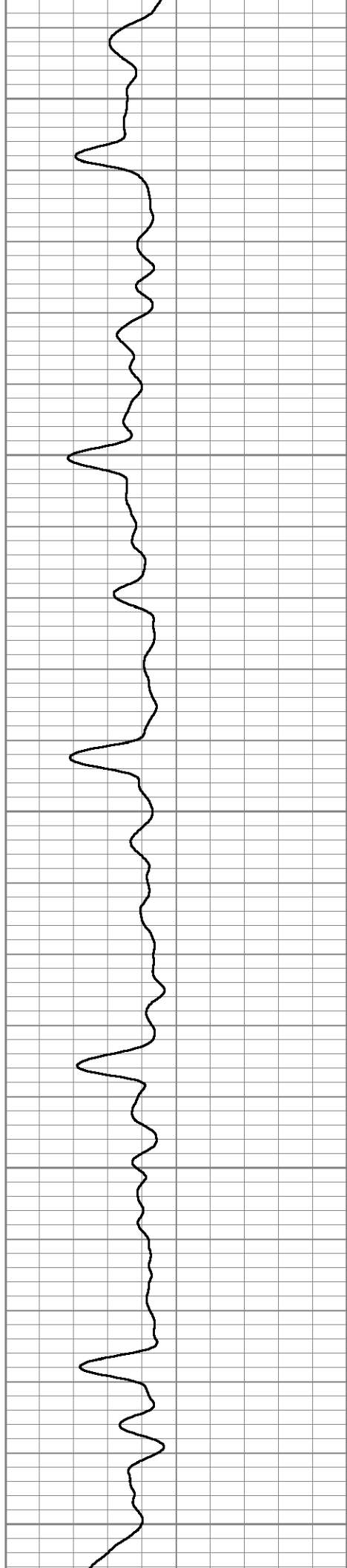
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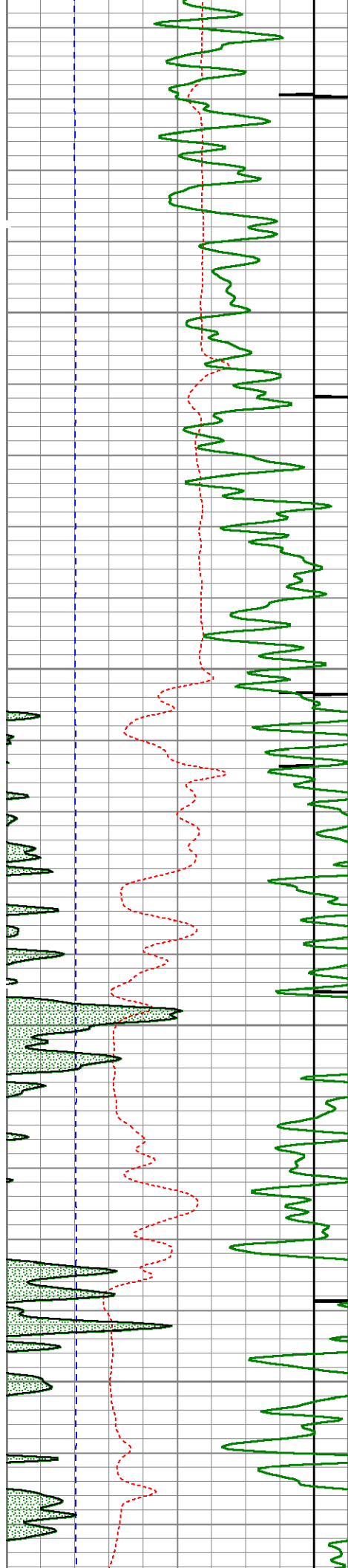
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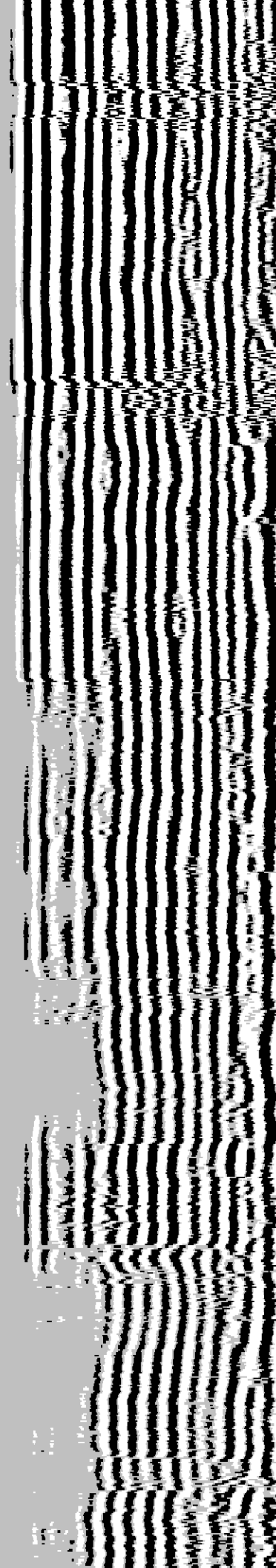
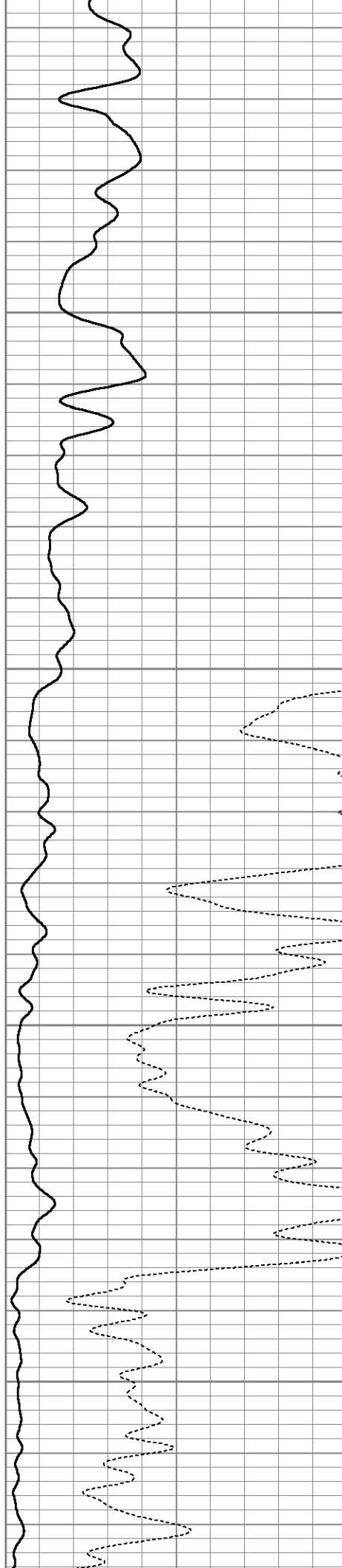


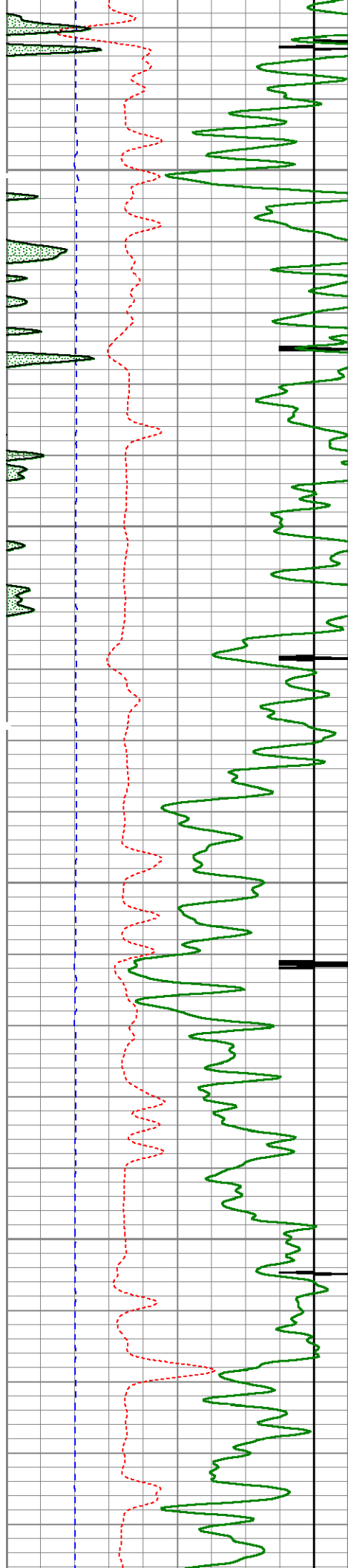
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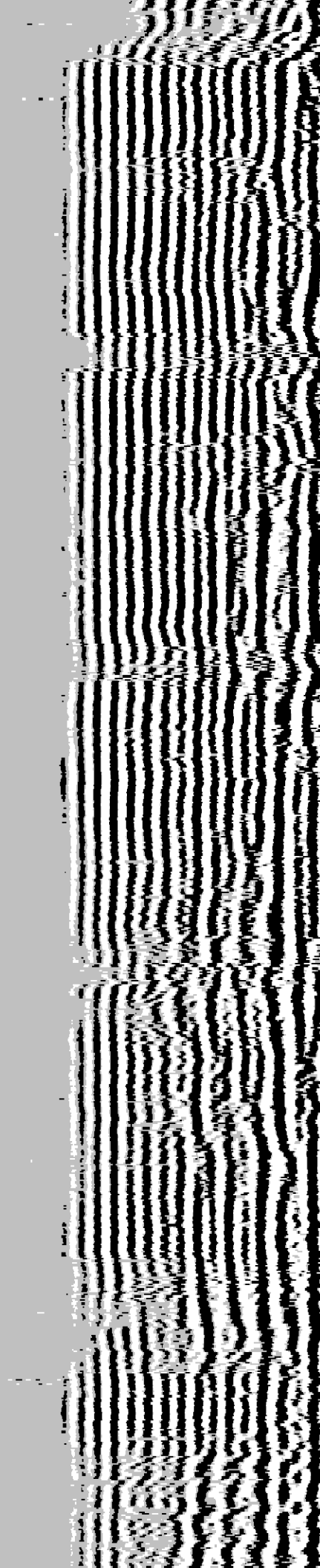
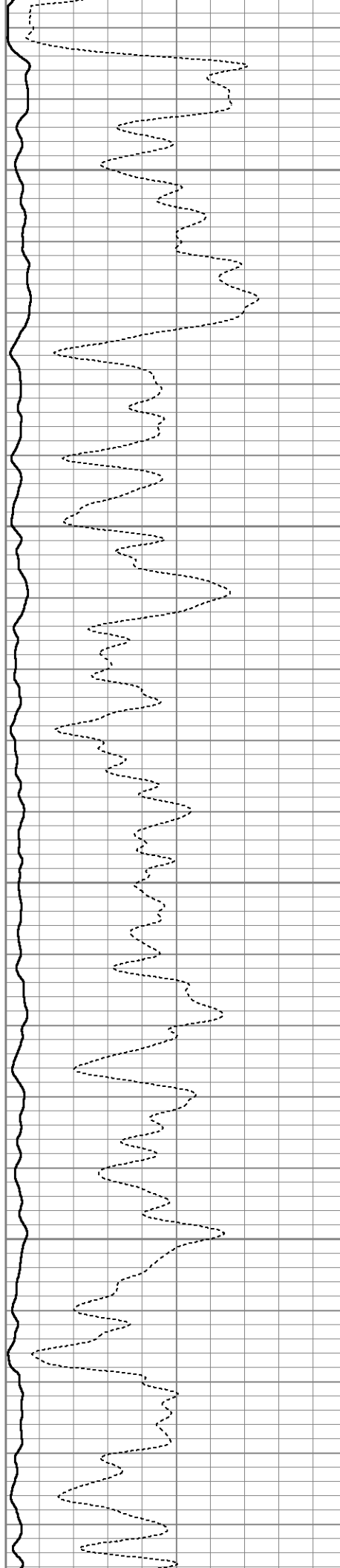


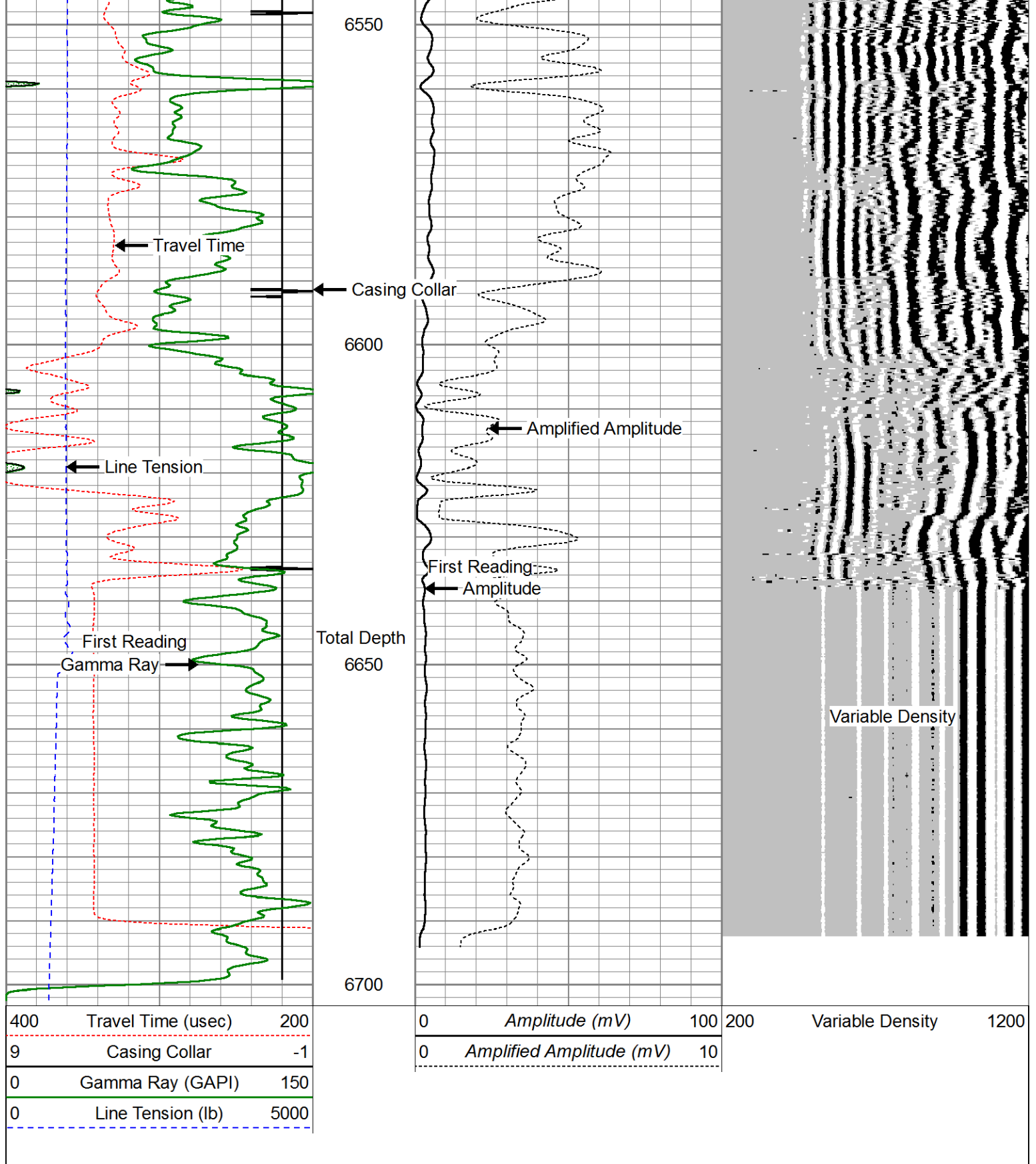
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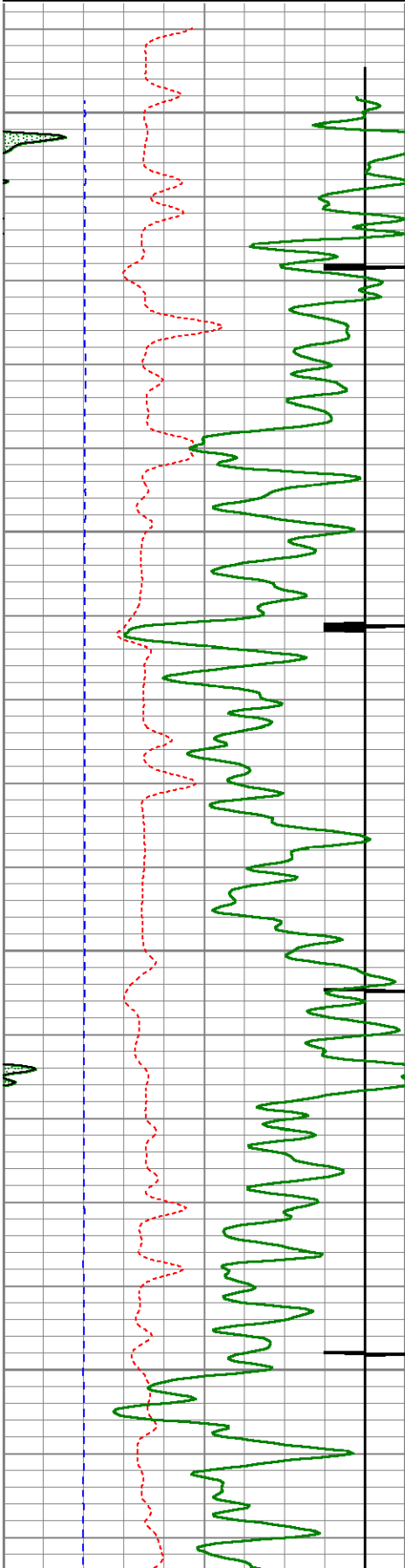
Repeat Pass (0 PSI)

Database File: c:\warrior\data\cased hole\bonanza creek\state north platte 11-14-26hc_cb\bonanza creek state north pla
Dataset Pathname: pass2
Presentation Format: cblprobe
Date: 11-15-00 14:00:10

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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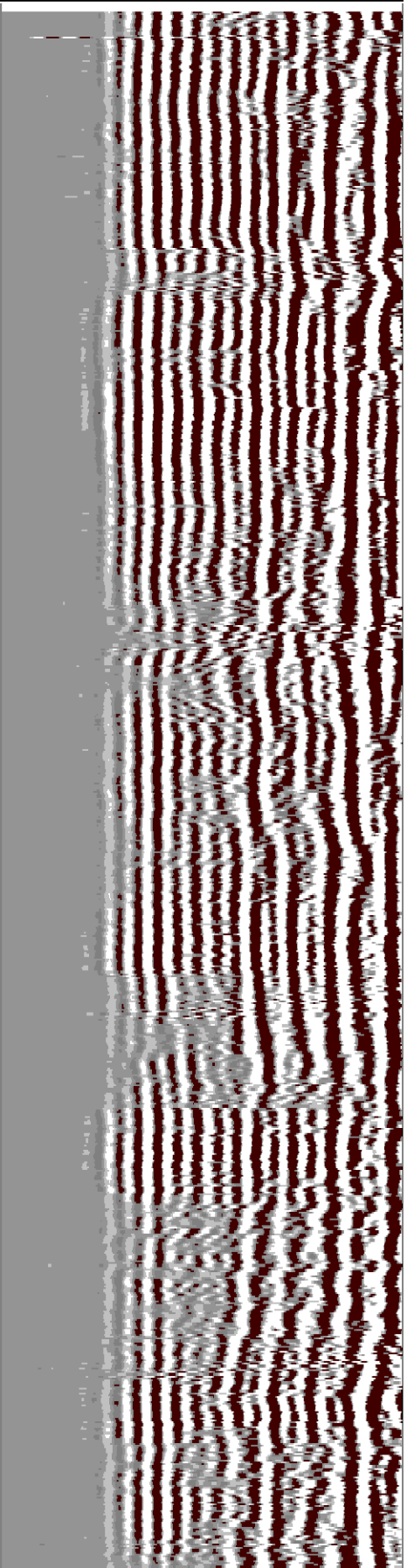
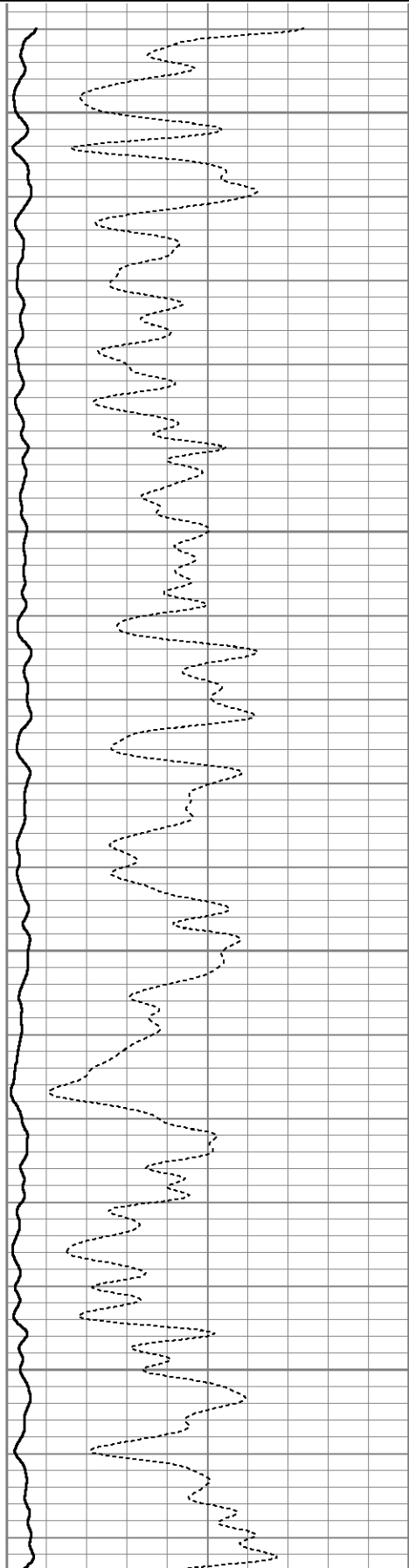


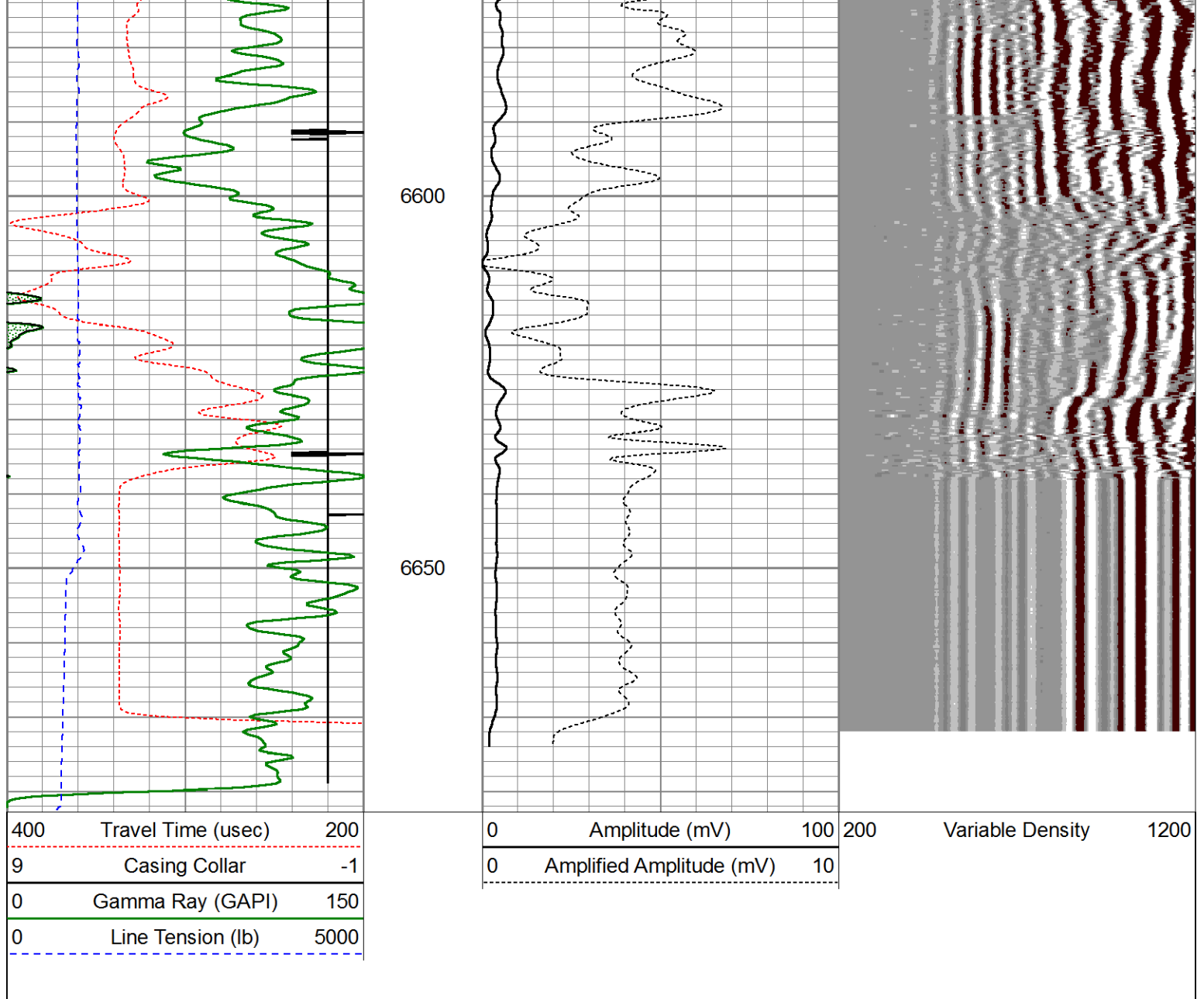
6400

6450

6500

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Calibration Report

Database File: C:\Warrior\Data\Cased Hole\Bonanza Creek\State North Platte 11-14-26HC_CBL\bonanza creek state north
 Dataset Pathname: pass4
 Dataset Creation: Wed Dec 11 15:27:30 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	
Offset:	0.00	
Delta Spacing	2	

Segmented Cement Bond Log Calibration Report

Serial Number:	101225	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	312.747	ft

Master Calibration, performed Fri Dec 06 17:28:42 2013:


	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.026	0.626	1.000	62.165	78.496	1.503
CAL	-0.030	0.881				
5'	-0.019	0.600	1.000	62.165	98.948	2.842
SUM						
S1	-0.010	0.694	0.000	100.000	142.057	1.356
S2	-0.017	0.756	0.000	100.000	129.342	2.236
S3	-0.023	0.749	0.000	100.000	129.446	2.999
S4	-0.021	0.699	0.000	100.000	138.845	2.983
S5	-0.022	0.627	0.000	100.000	154.078	3.337
S6	-0.021	0.570	0.000	100.000	168.994	3.606
S7	-0.022	0.542	0.000	100.000	177.400	3.917
S8	-0.021	0.540	0.000	100.000	178.192	3.726

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	-0.030	0.881	1.000	0.000

Air Zero Calibration, performed Thu Dec 05 13:36:03 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)
			Tip	4.00	4.44	40.00

