



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

Company	Bonanza Creek	Company	Bonanza Creek
Well	State Seventy Holes A-E-6HNB	Well	State Seventy Holes A-E-6HNB
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:		API # : 05-123-39858	Other Services
SEC 6 TWP 4N RGE 62W		NONE	
Permanent Datum	Ground Level	Elevation	4538'
Log Measured From	Kelly Bushing	16' APD	
Drilling Measured From	Kelly Bushing		
Date	October 4, 2014		
Run Number	One		
Depth Driller	-		
Depth Logger	6534'		
Bottom Logged Interval	6521'		
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	9:16		
Time Logger on Bottom	9:56		
Equipment Number	2633		
Recorded By	Brighton		
Witnessed By	C. Rall		
	K. Dodge		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
		From	To
Casing Record	Size	Wgt/Ft	Top
Surface String	9 5/8"	36#	Surface
Prod. String	7"	26#	Surface
Production String			
Liner	4.5"		6821'

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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 Well
Repeat & Main Pass Logged w/ 0 PSI

Logged from 16' KB

Logging Speed Requested by Company

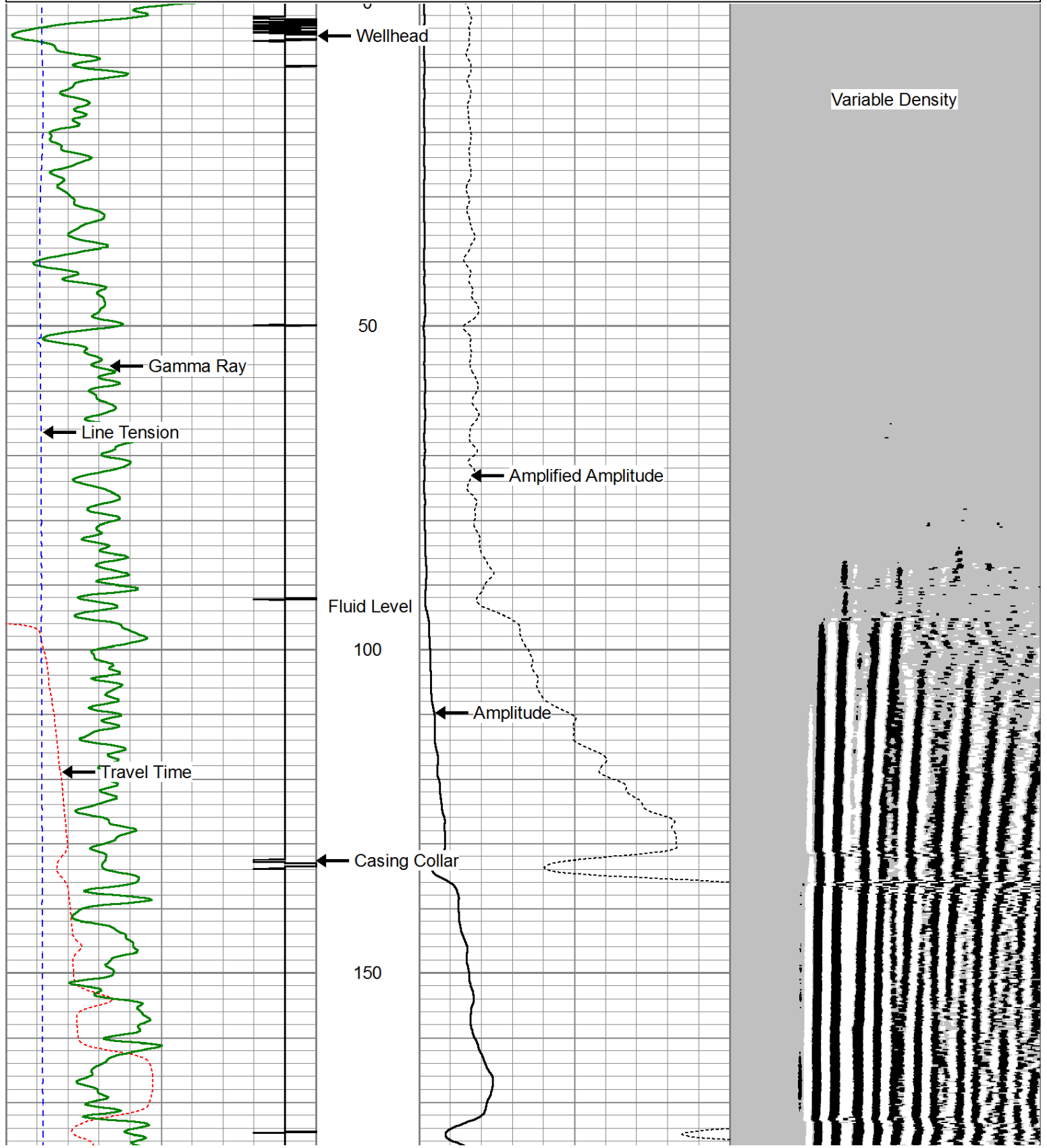
Thank You for using Allied-Horizontal Wireline Services
(303) 659-4609

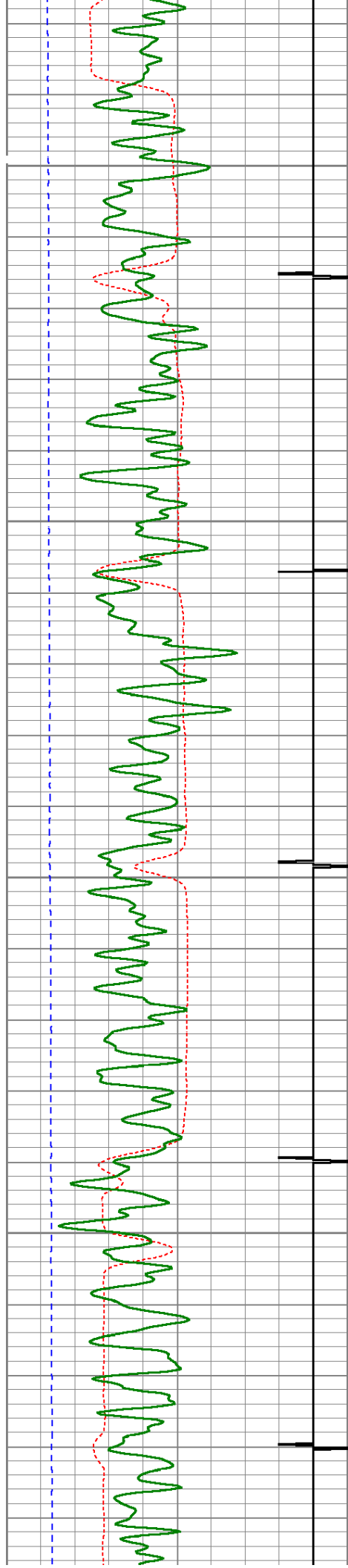


Main Pass (0 PSI)

Database File: bonanza creek state secenty holes a-e-6hnb_cbl.db
Dataset Pathname: pass4
Presentation Format: cblprobe
Dataset Creation: Sat Oct 04 10:01:03 2014 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

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)	2000						



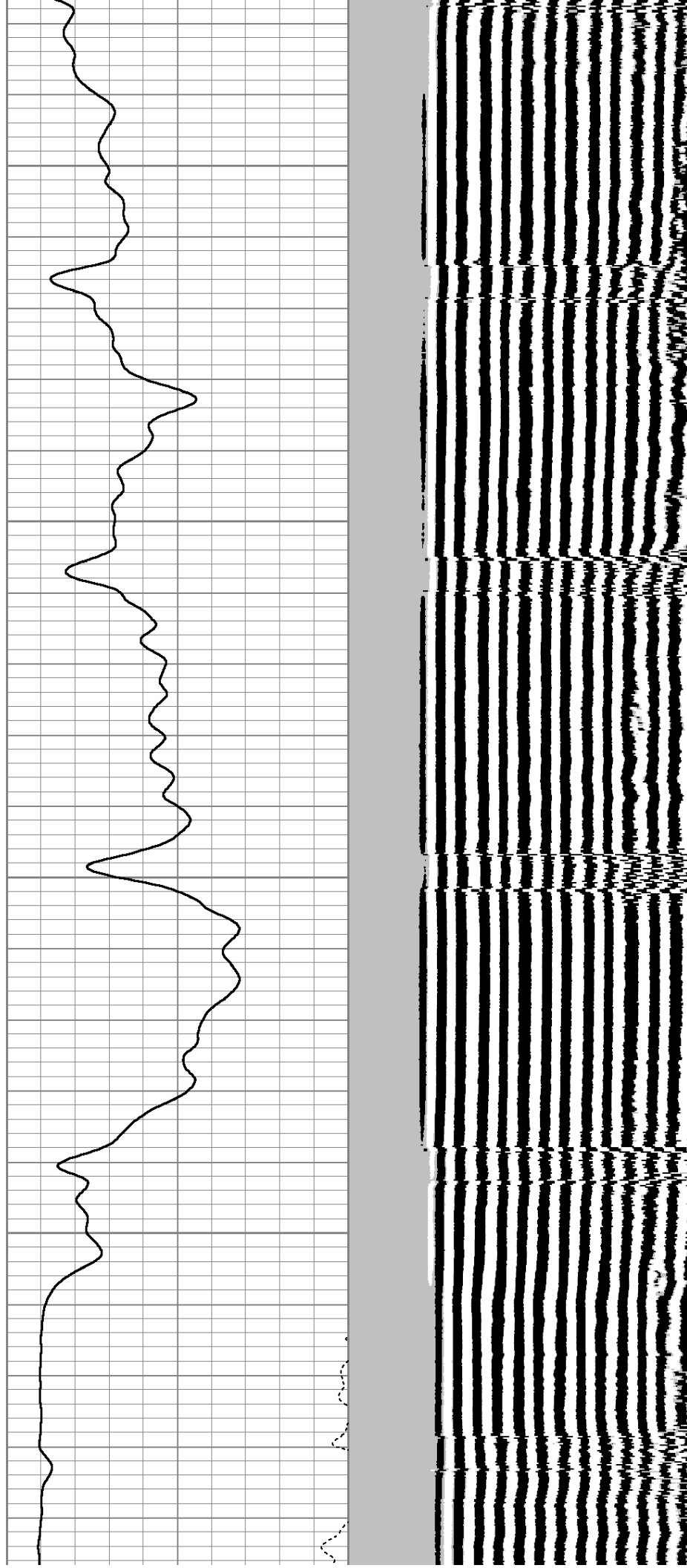


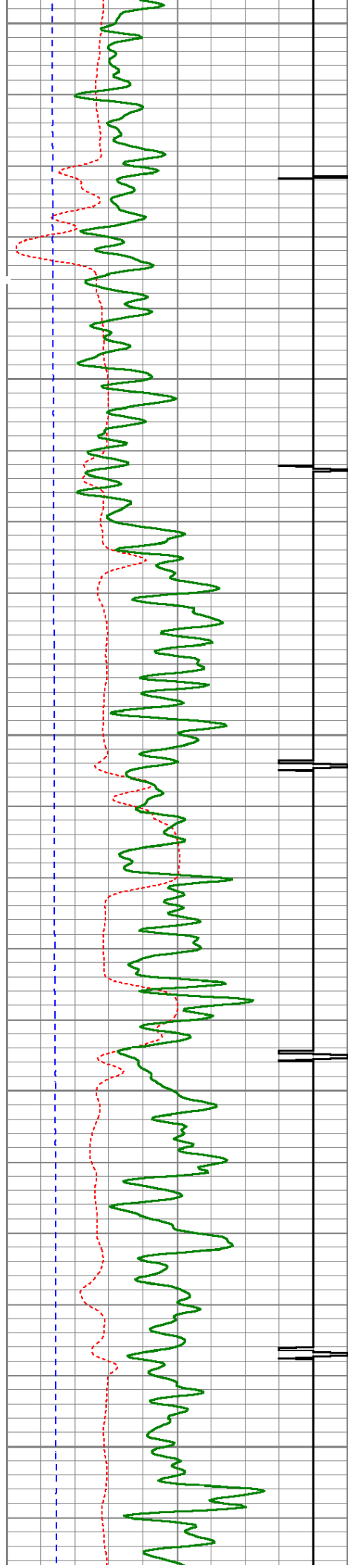
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250

300

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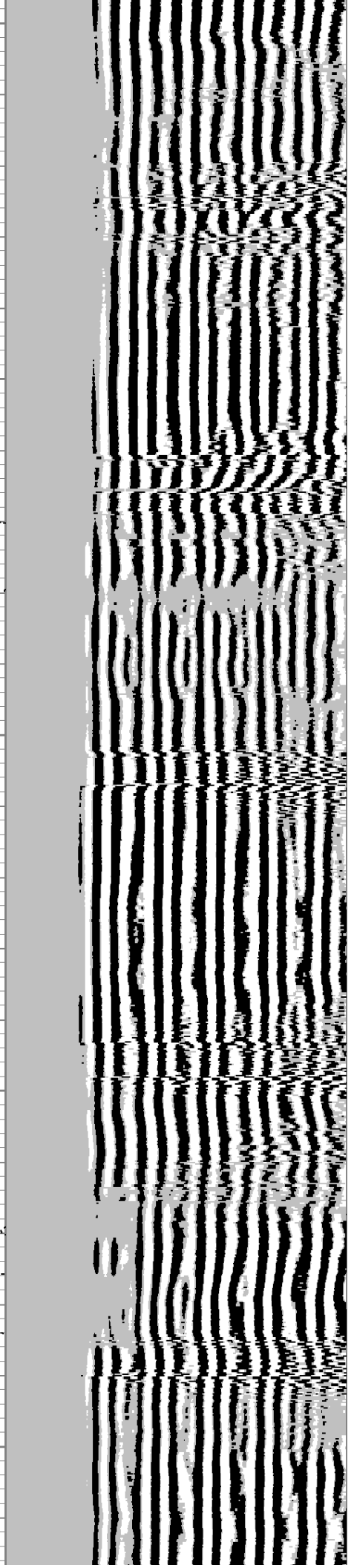
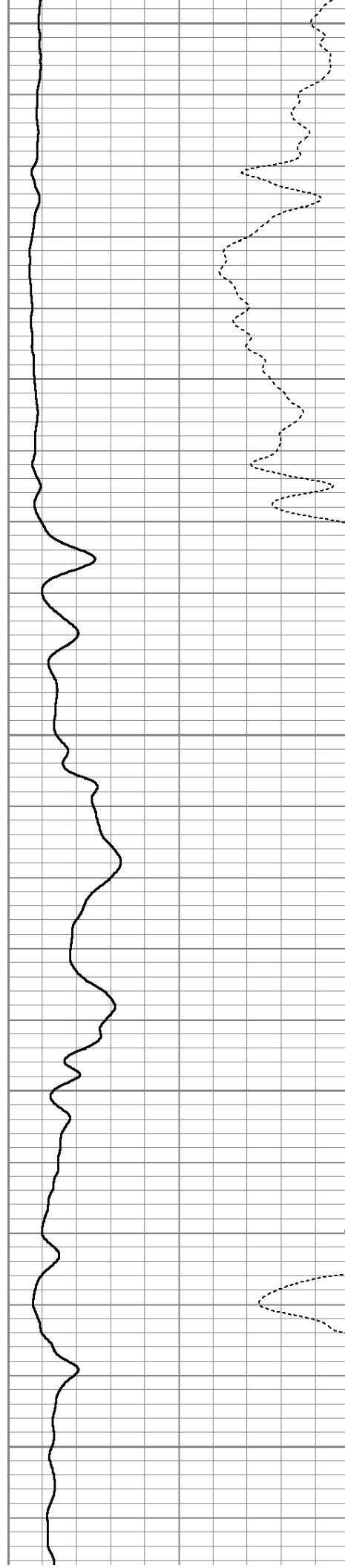
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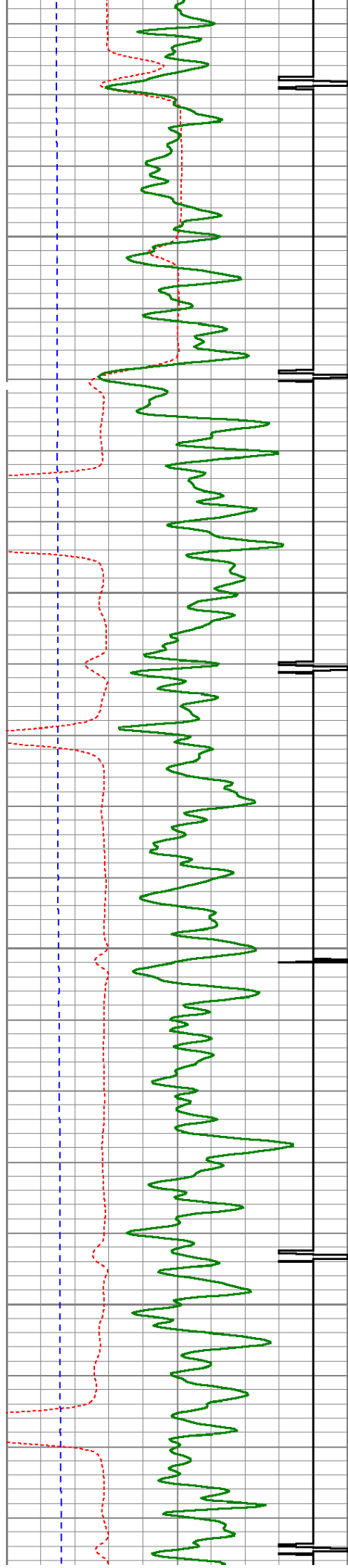
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600



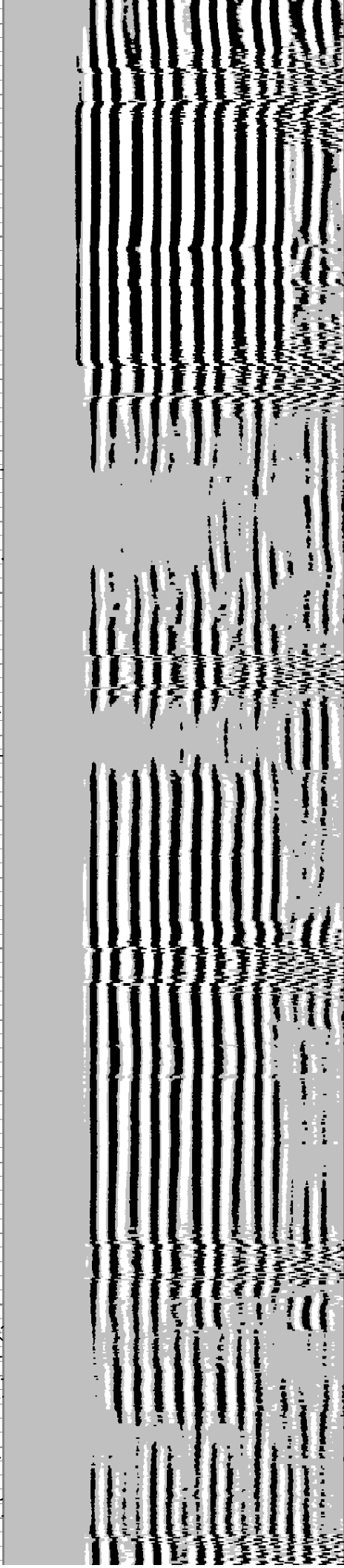
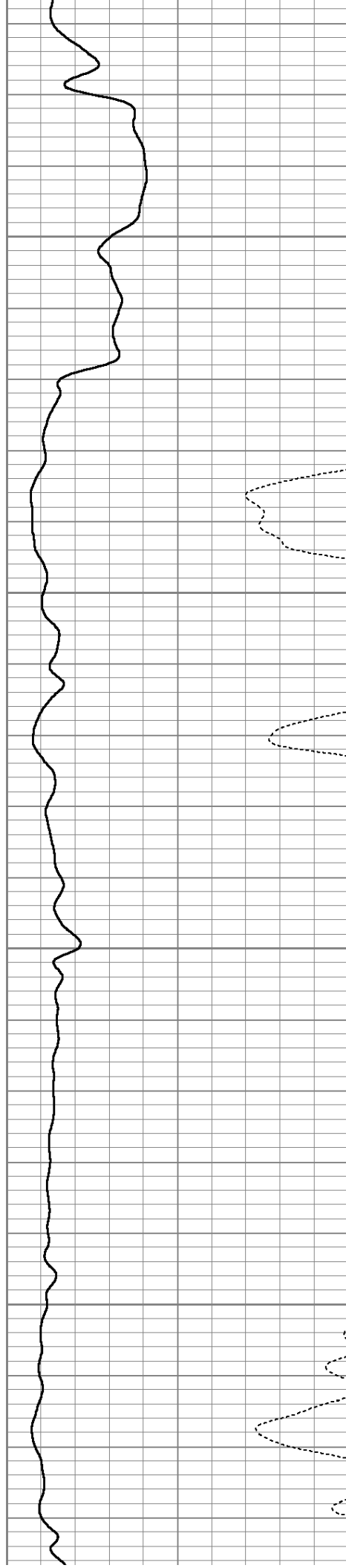


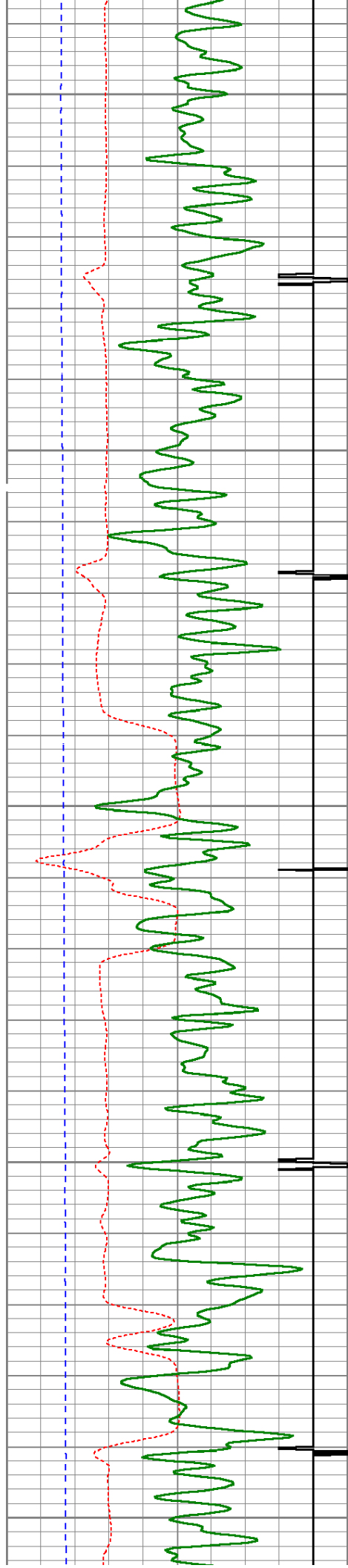
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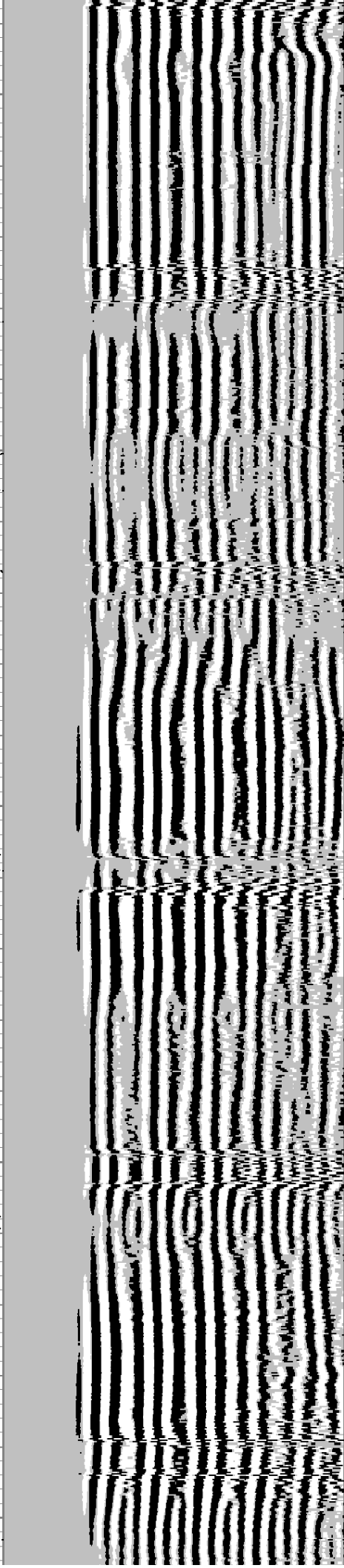
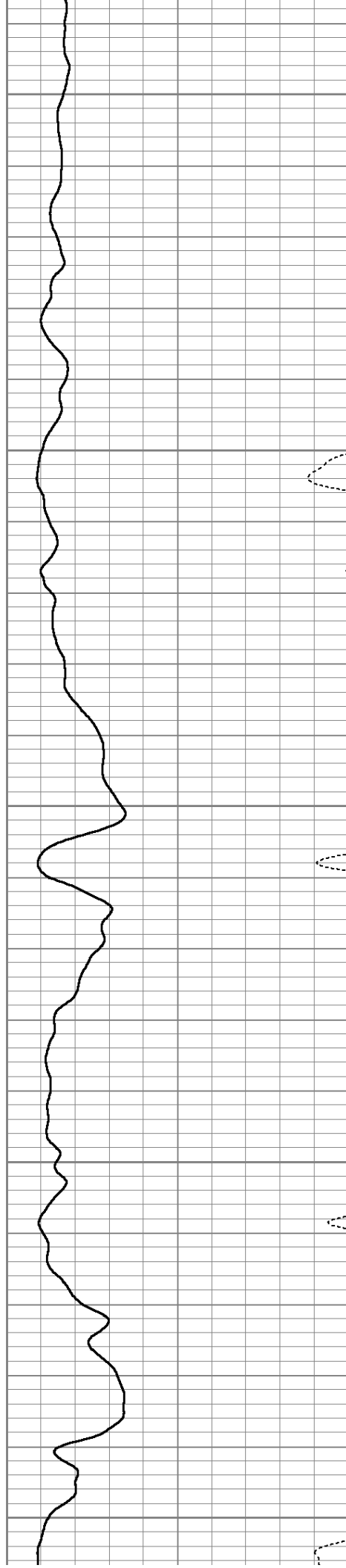
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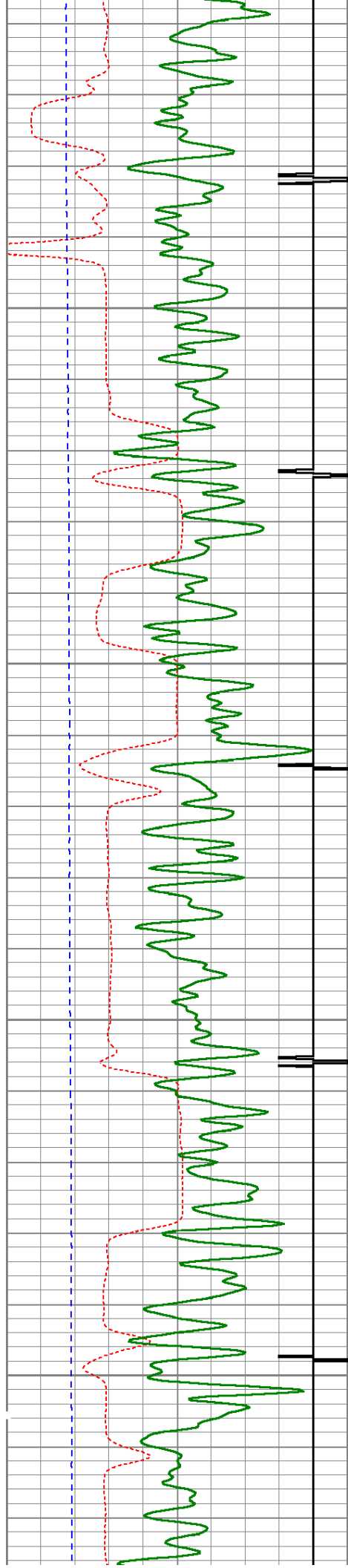
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1000

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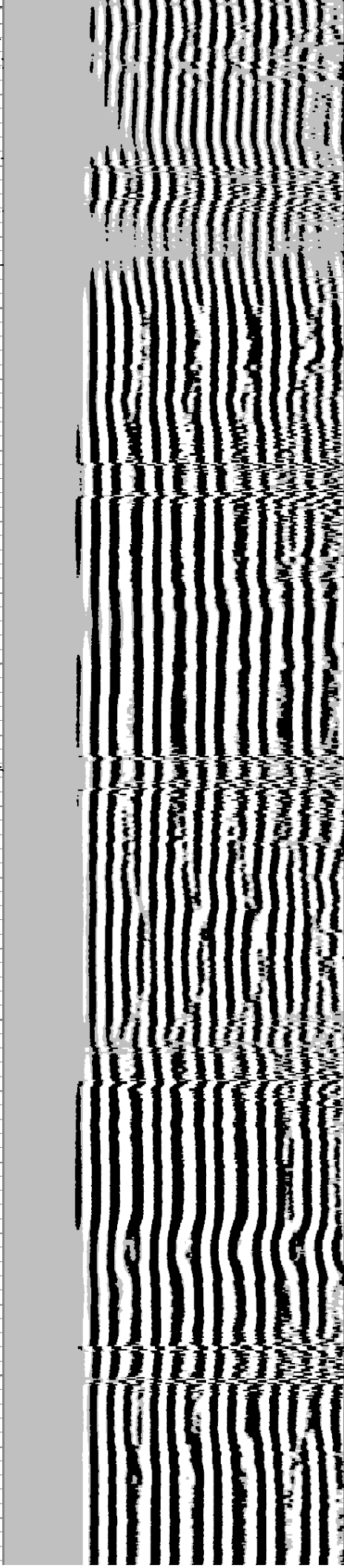
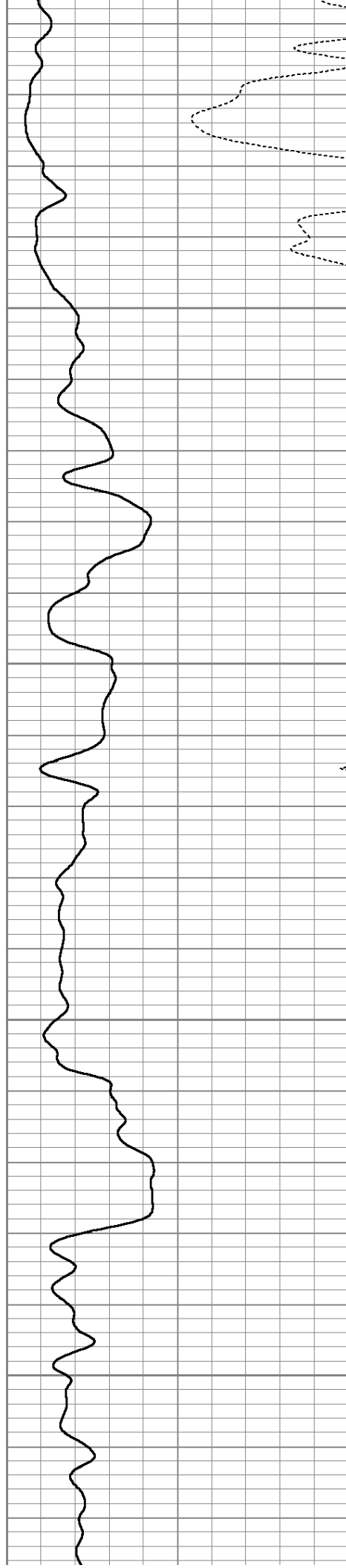


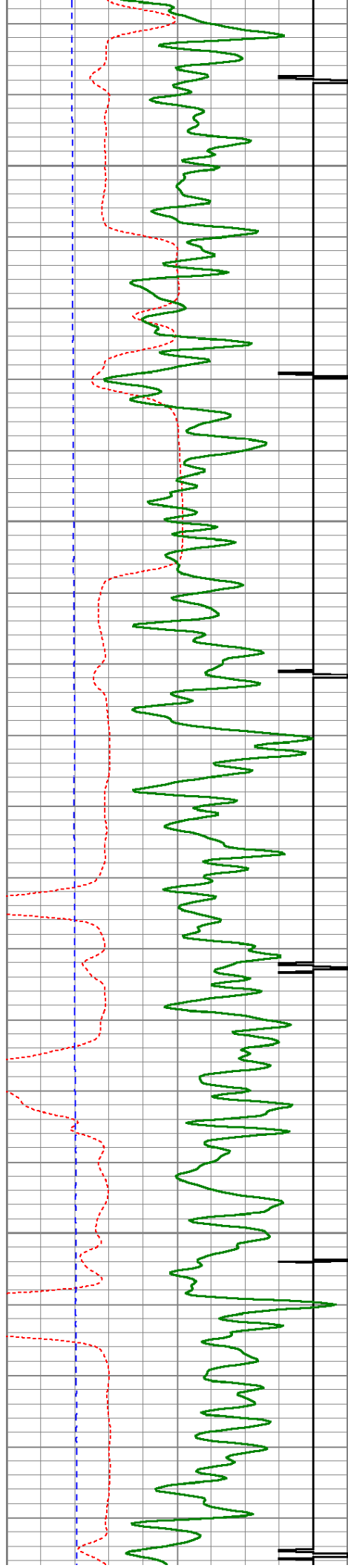
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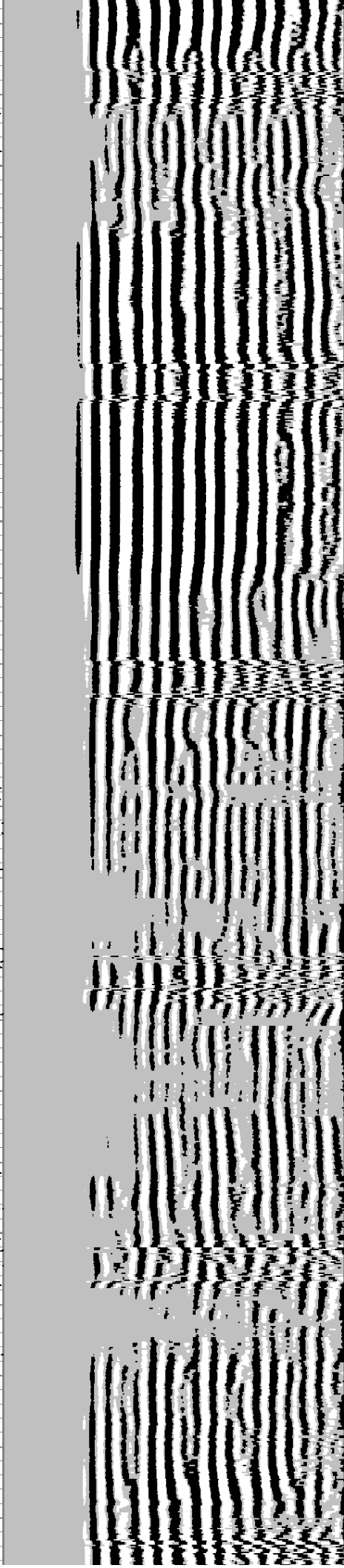
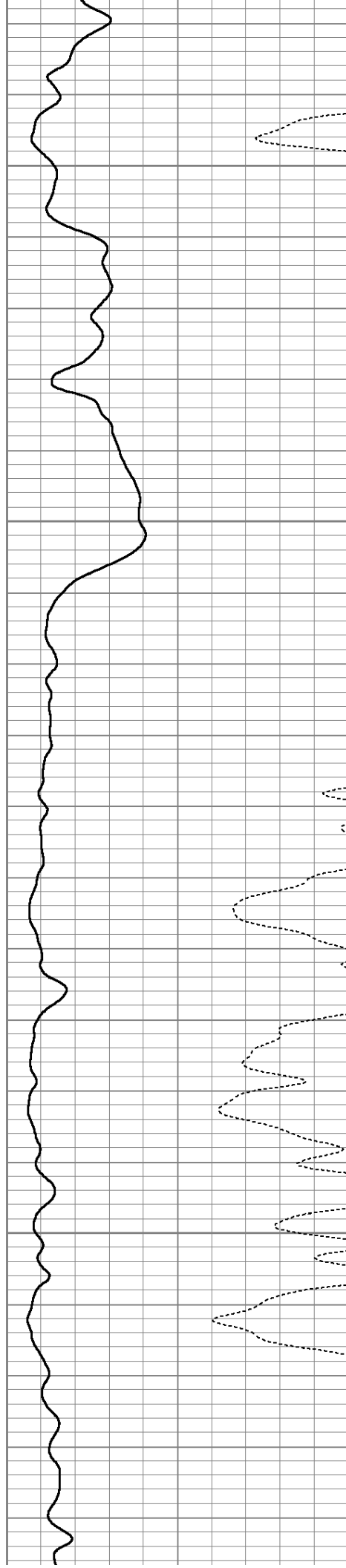


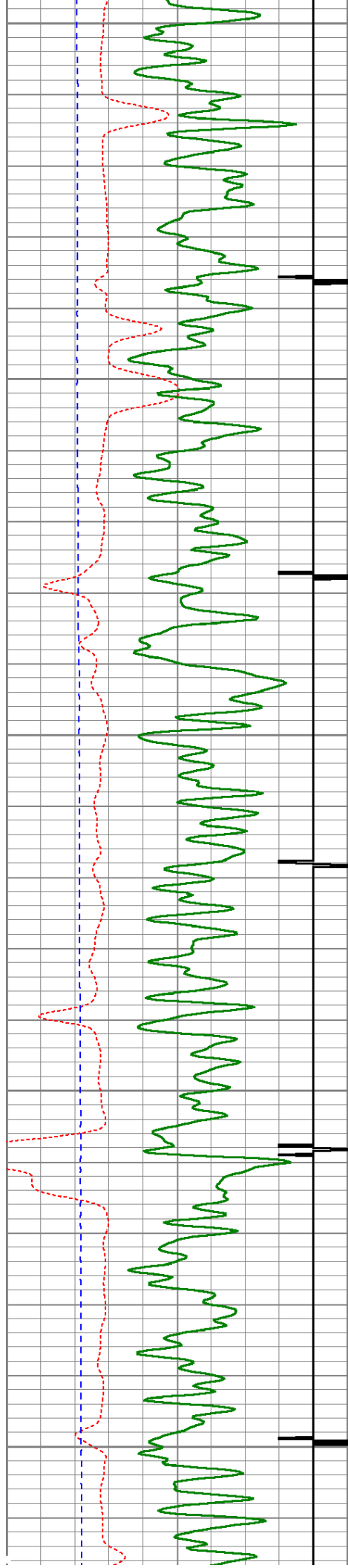
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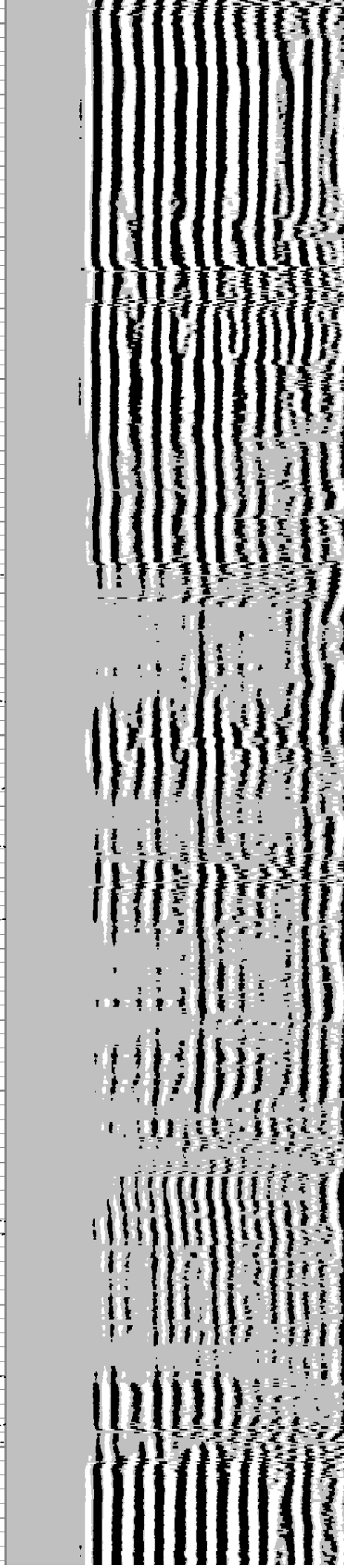
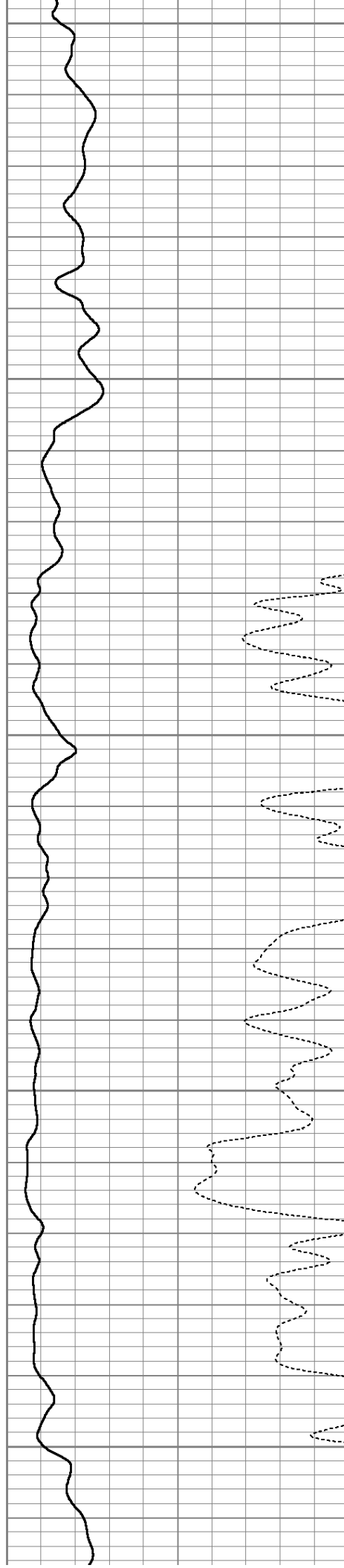
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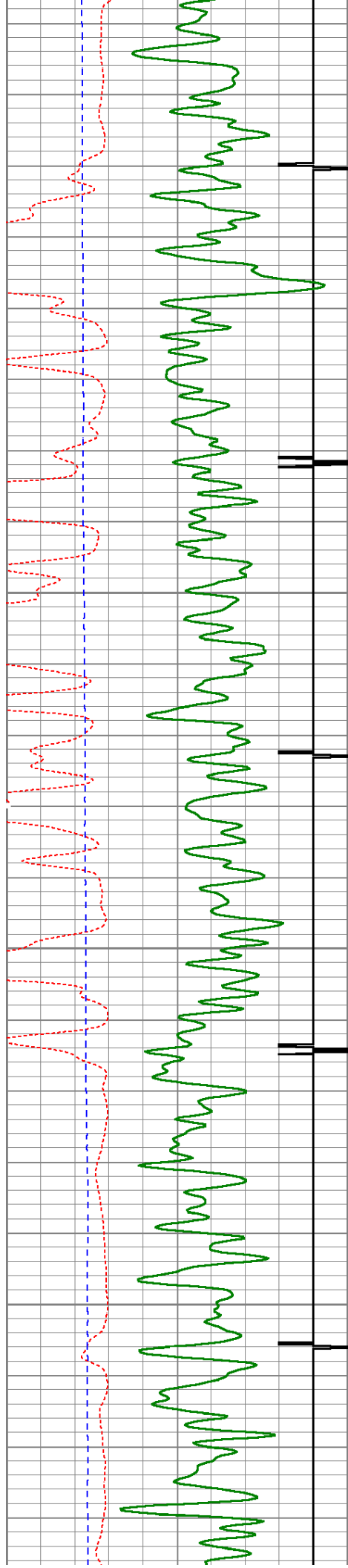
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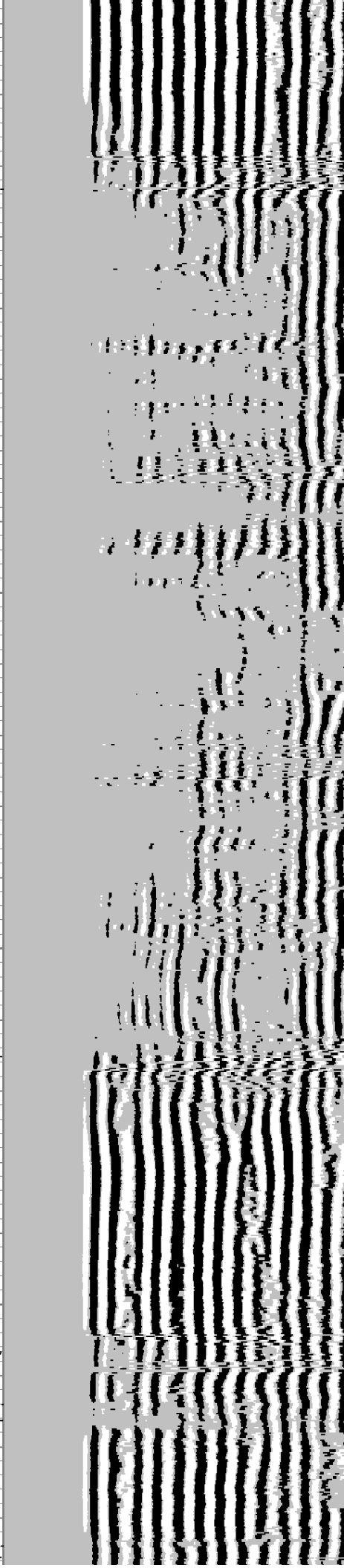
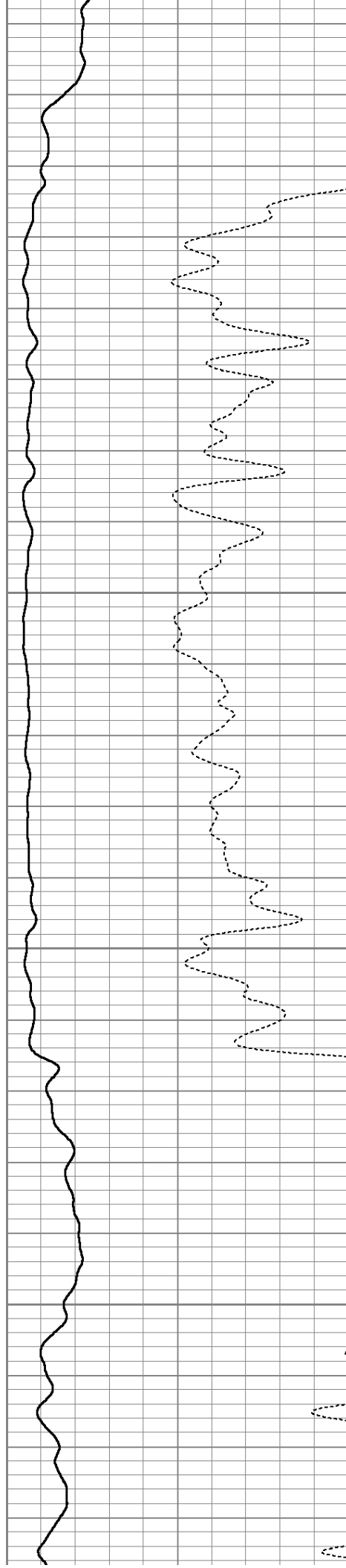


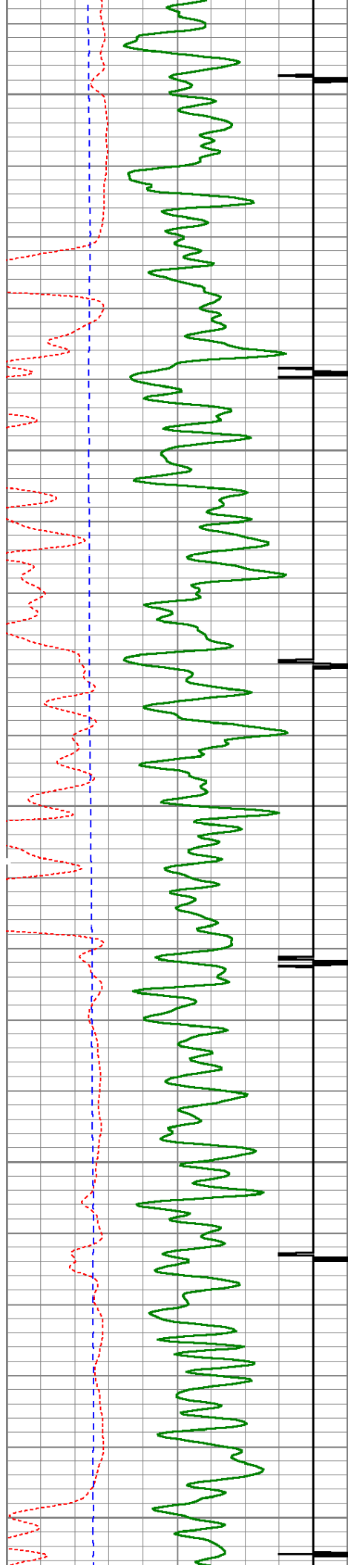
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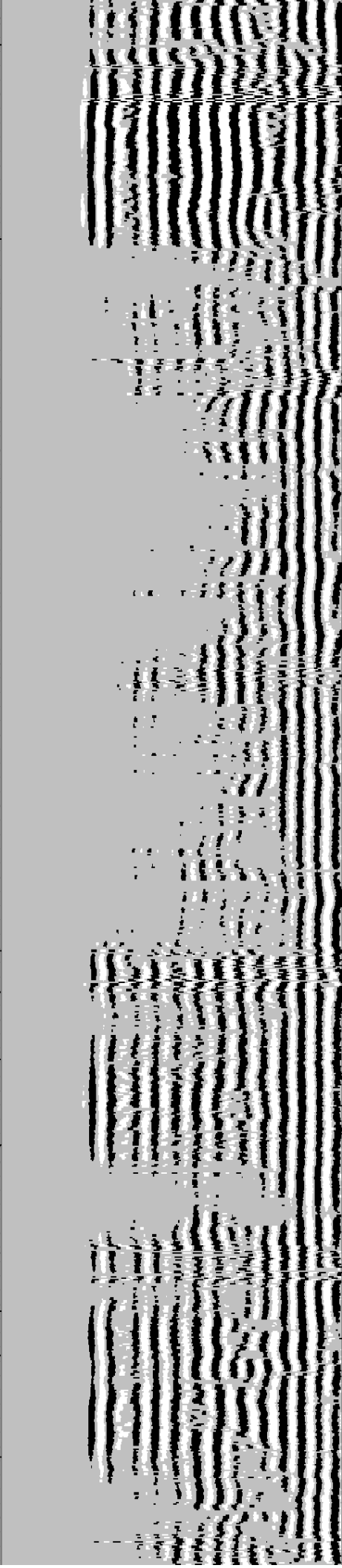
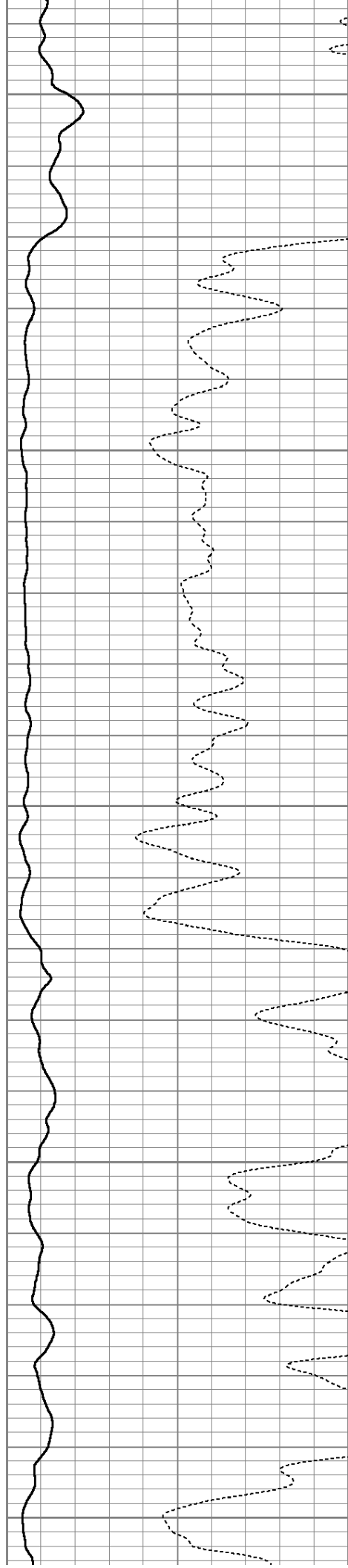
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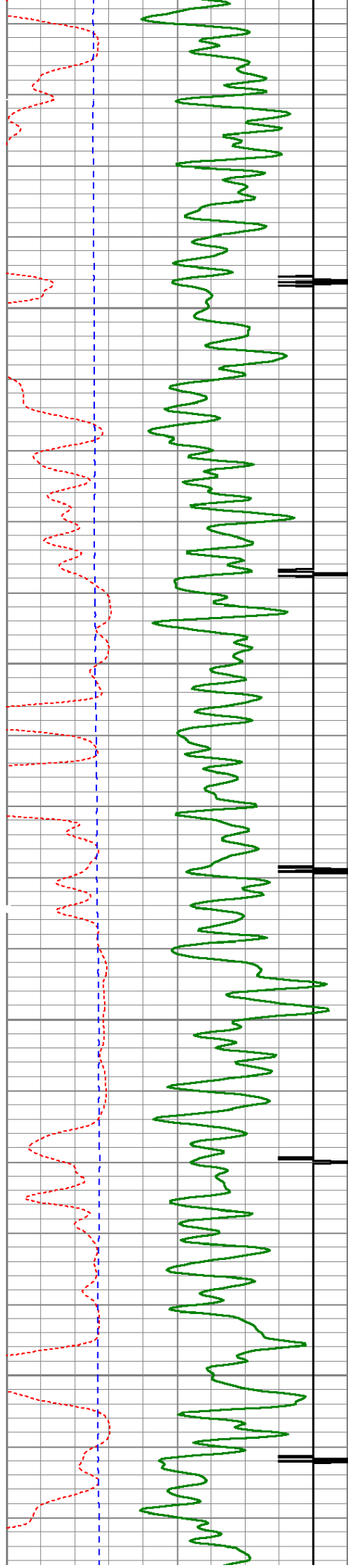
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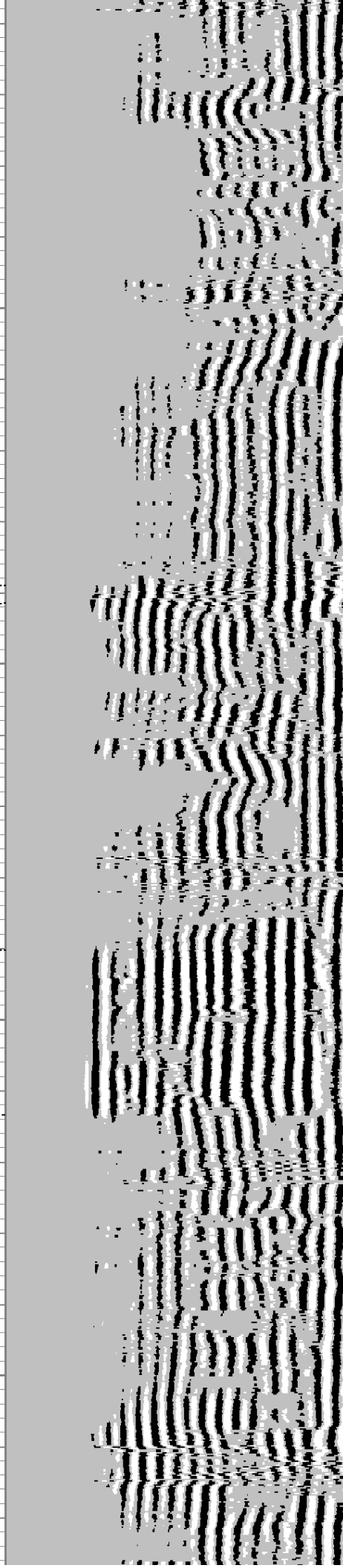
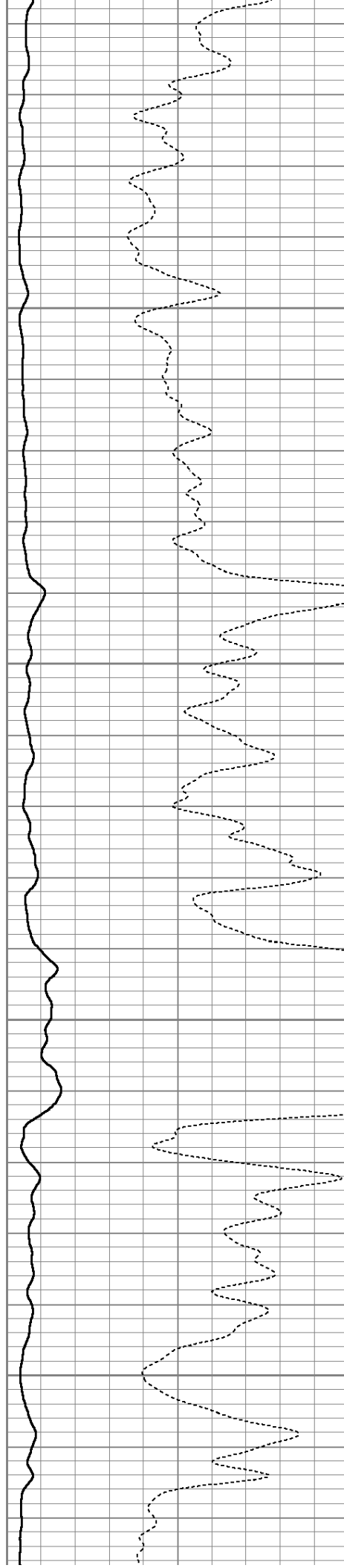


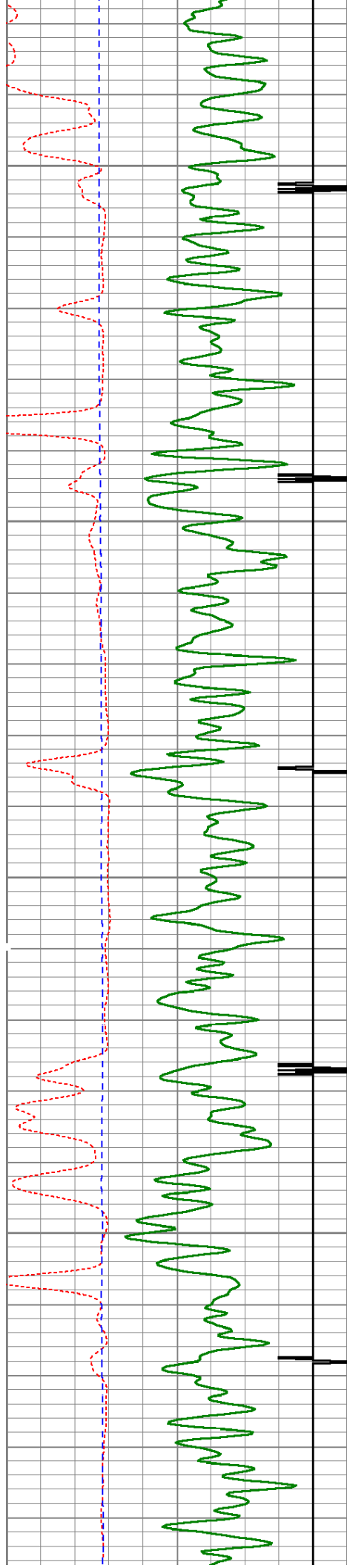
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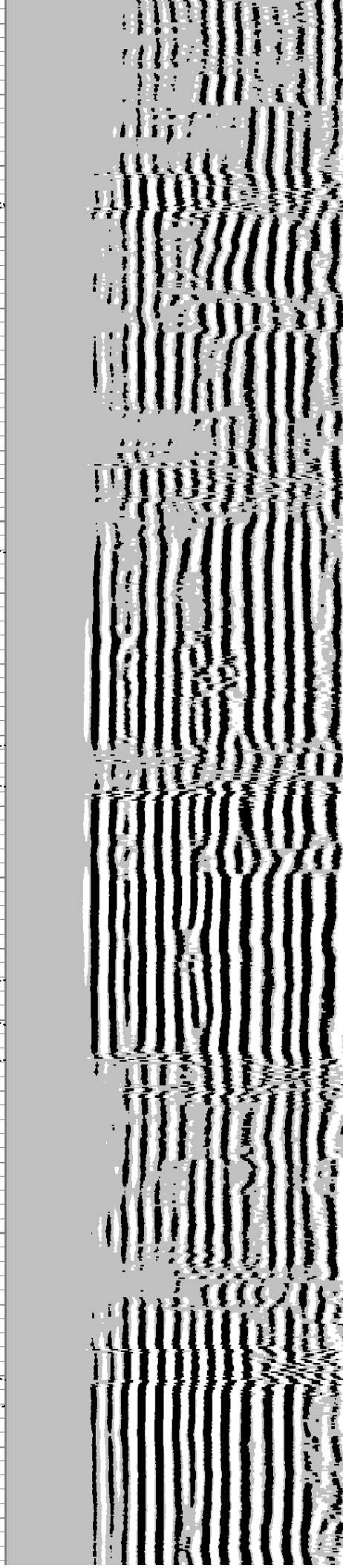
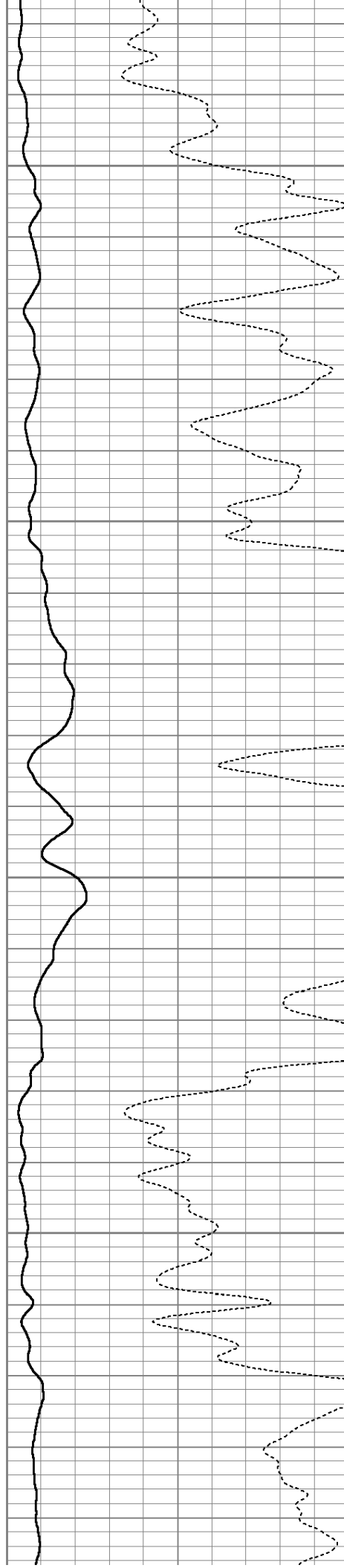


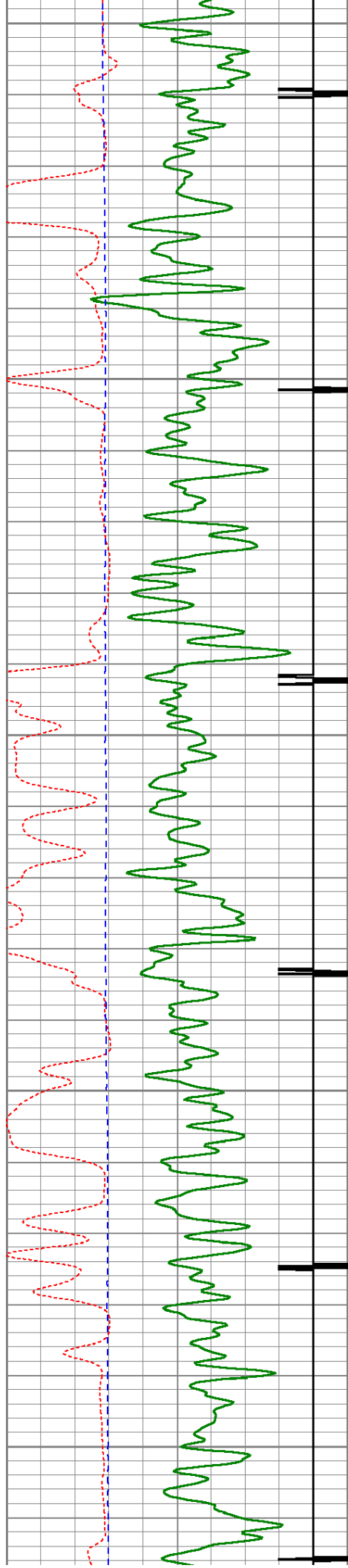
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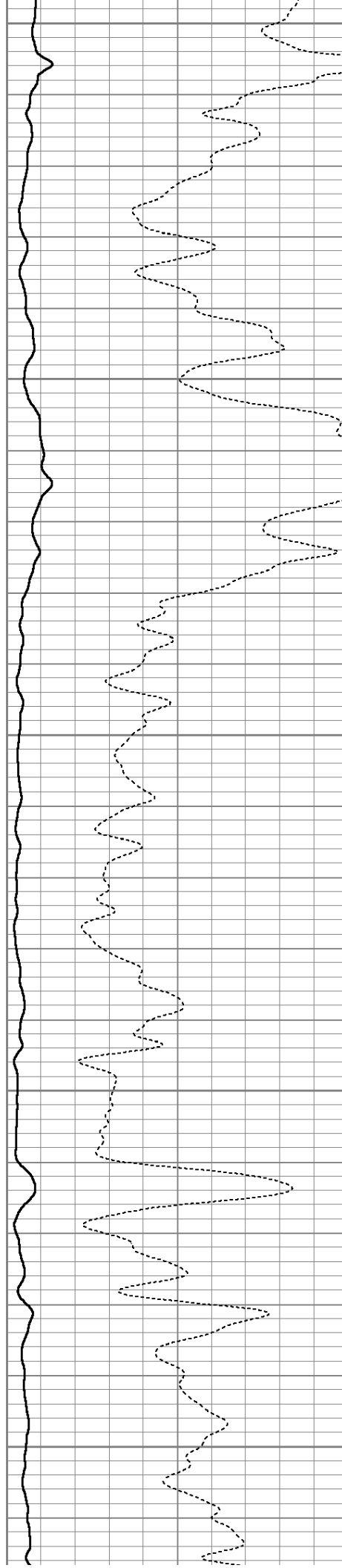
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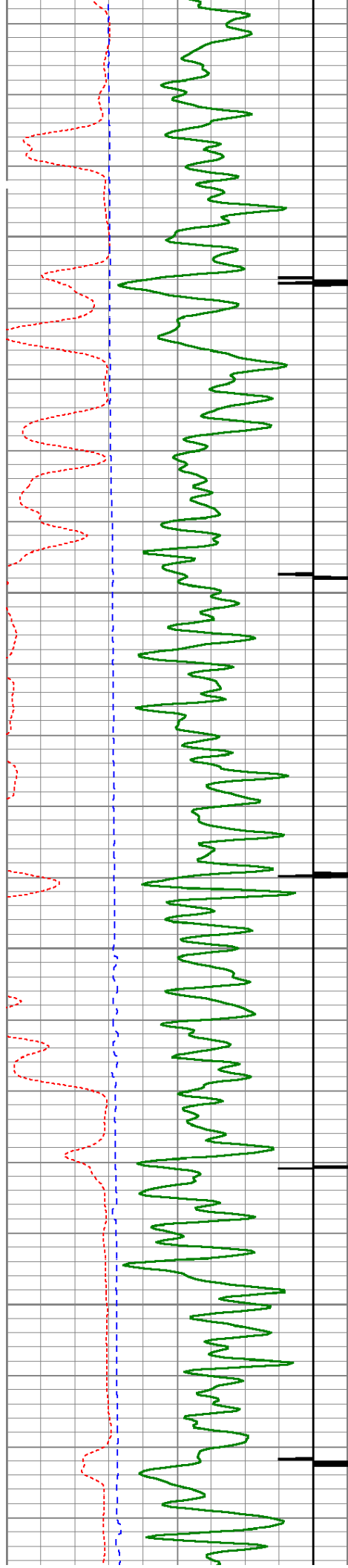
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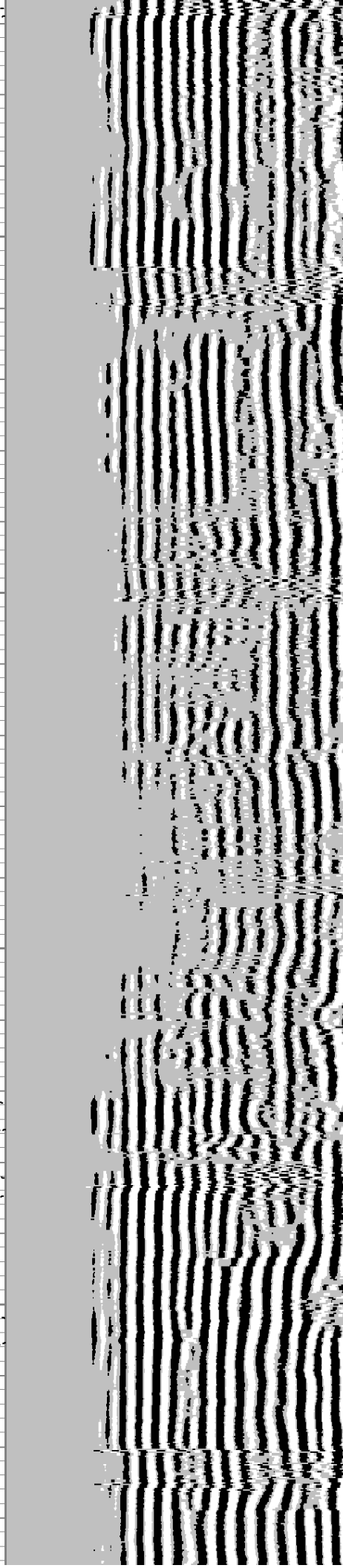
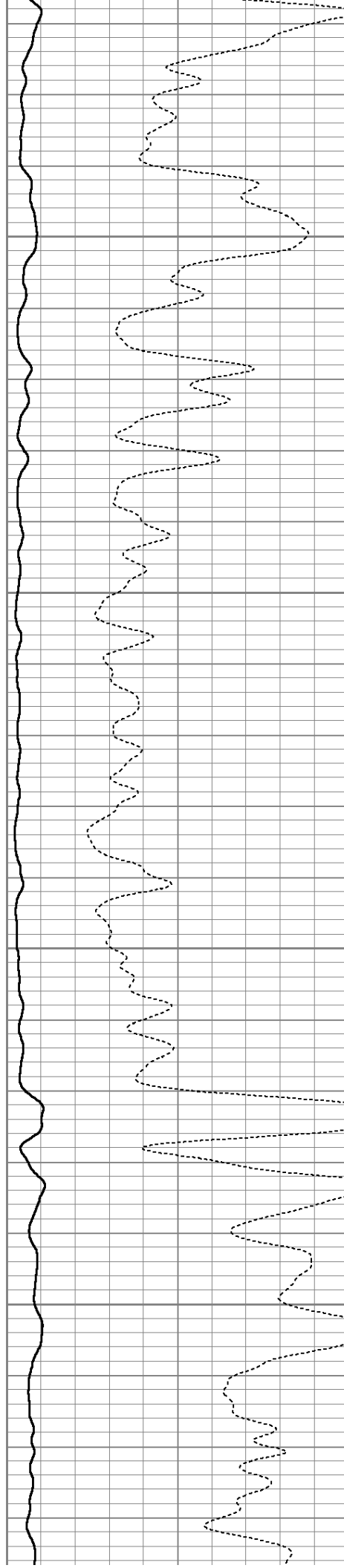


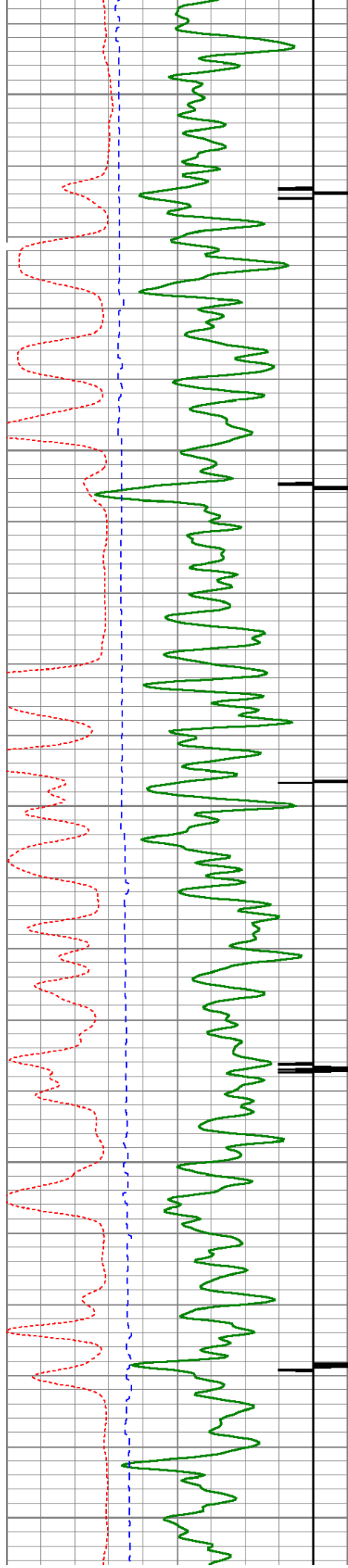
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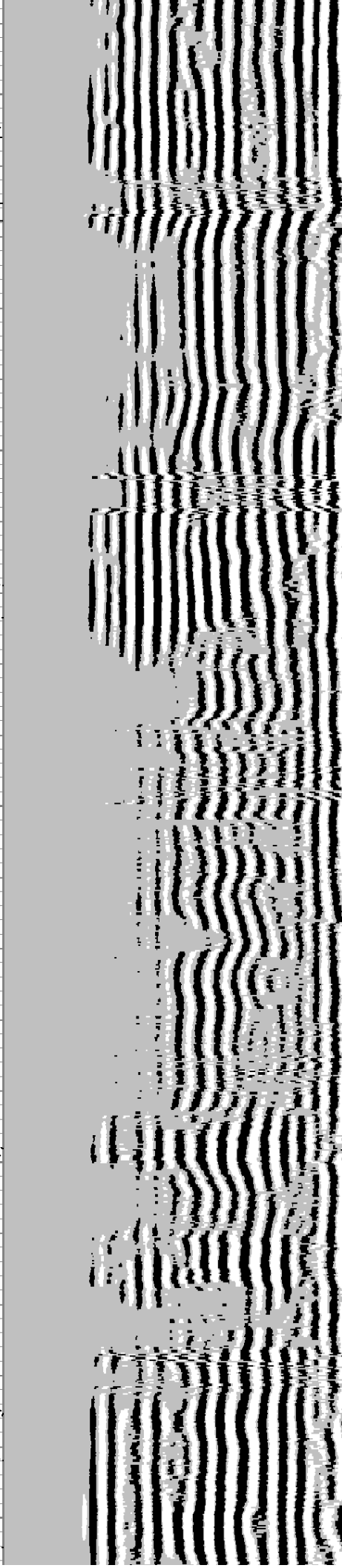
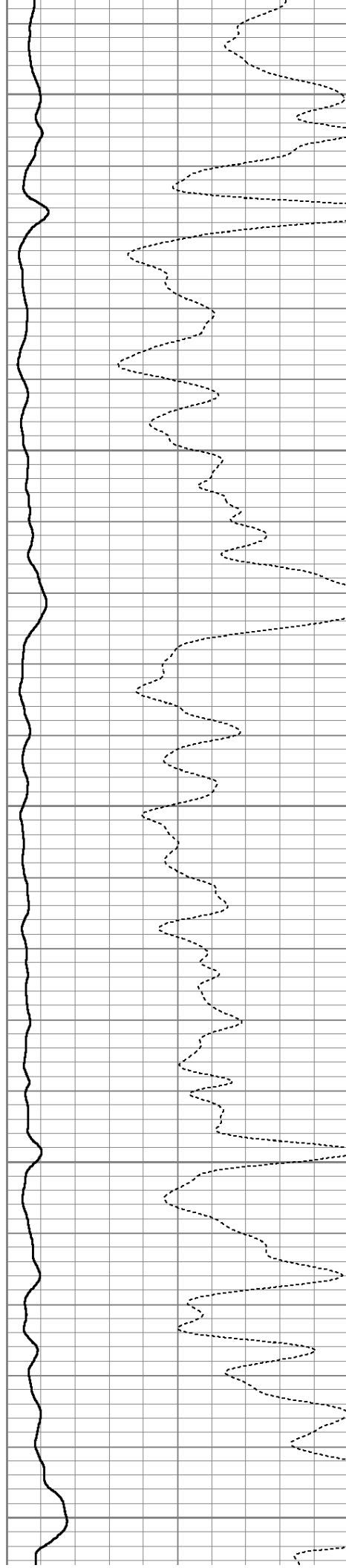
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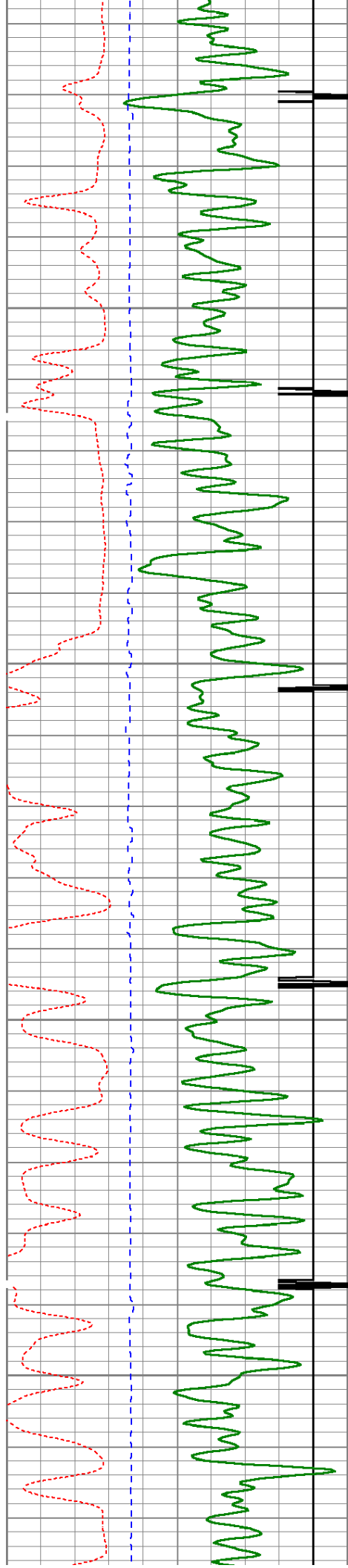
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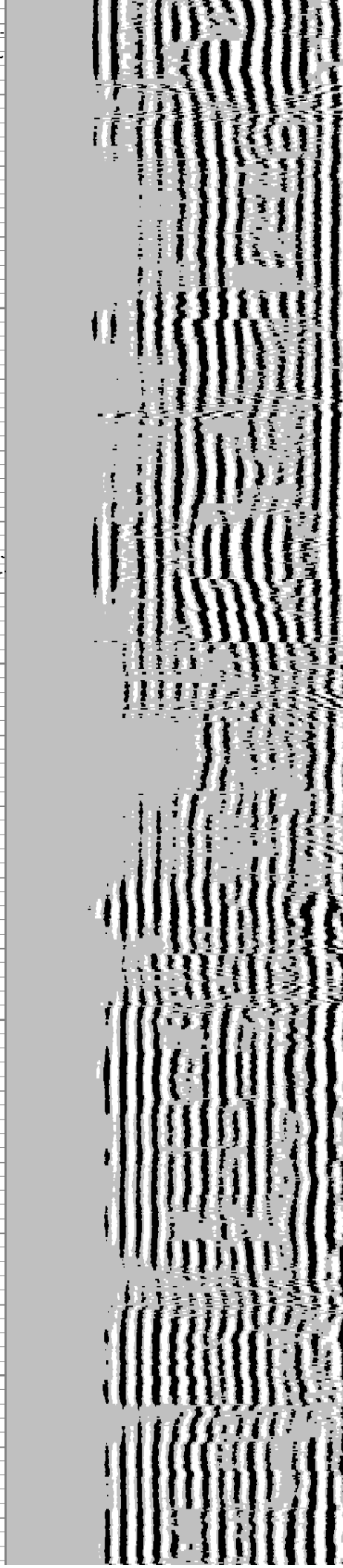
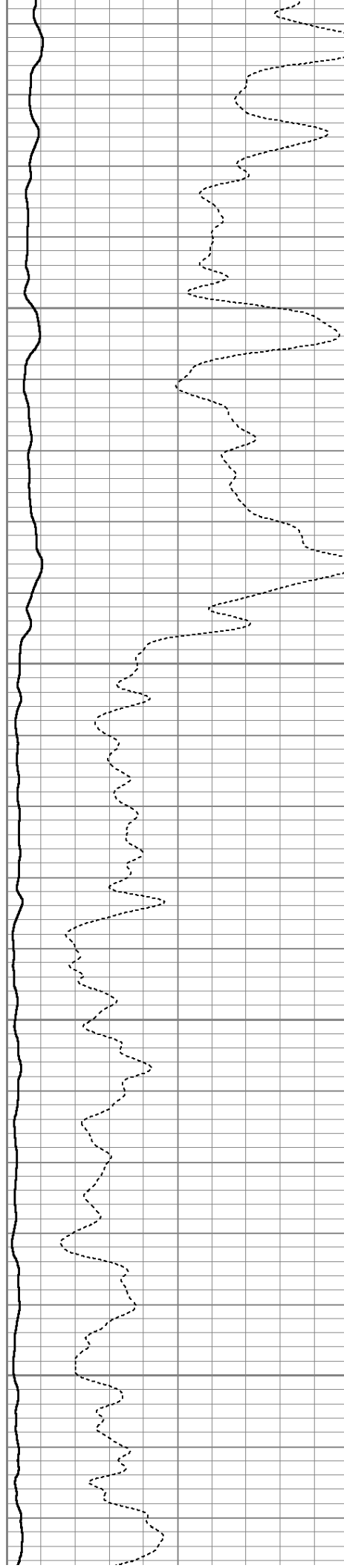


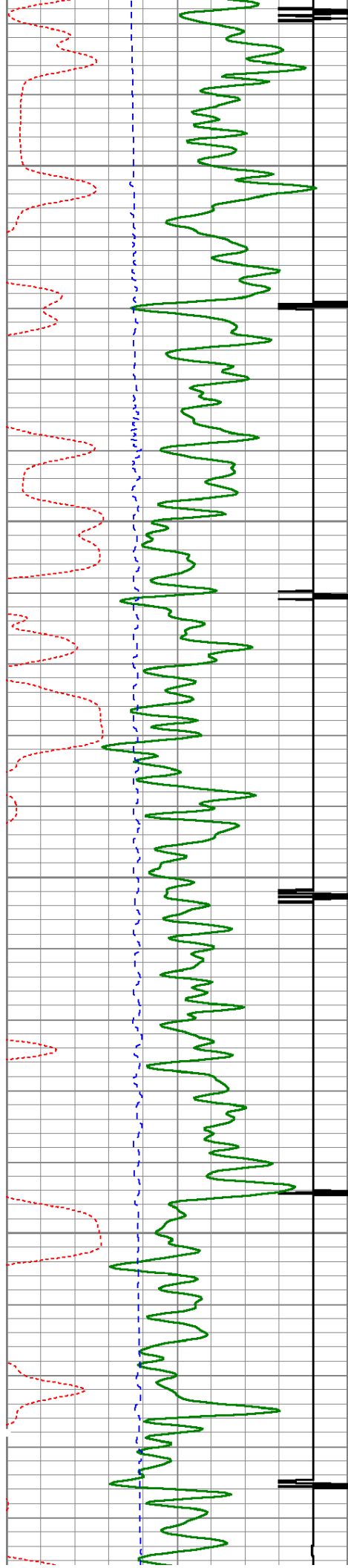
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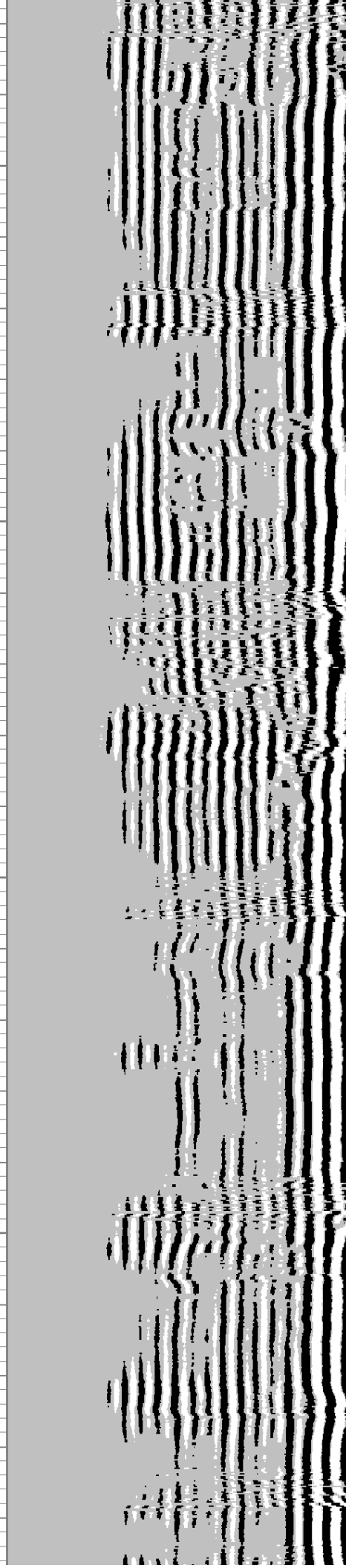
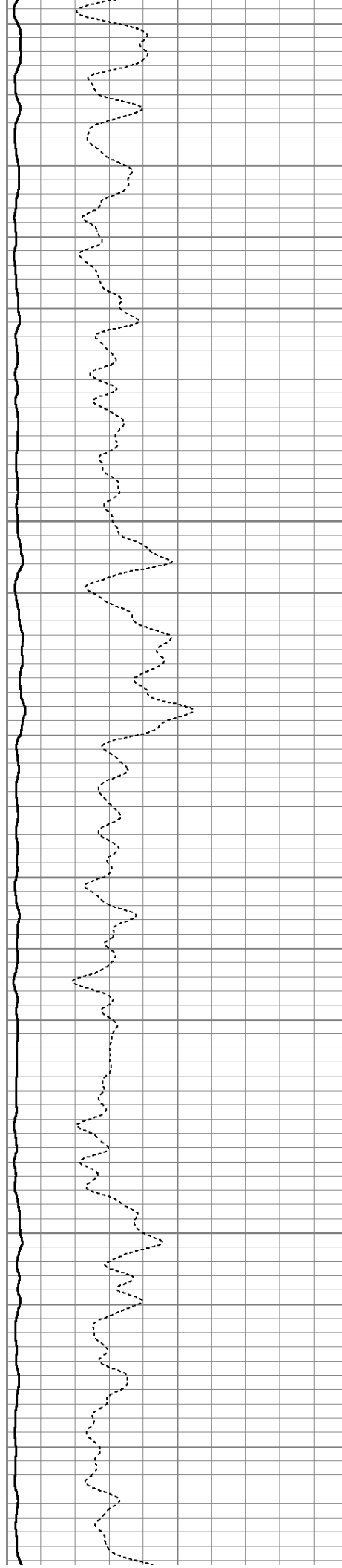


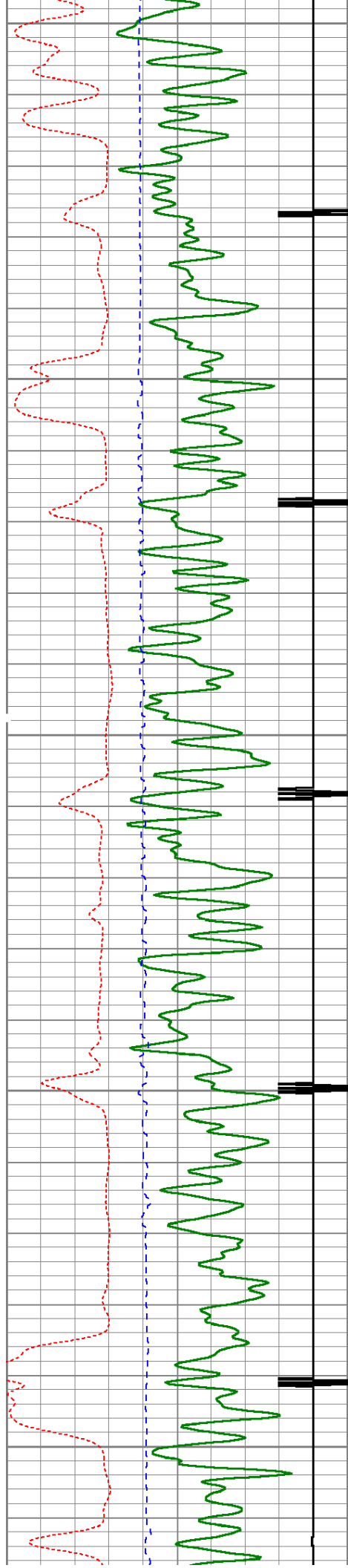
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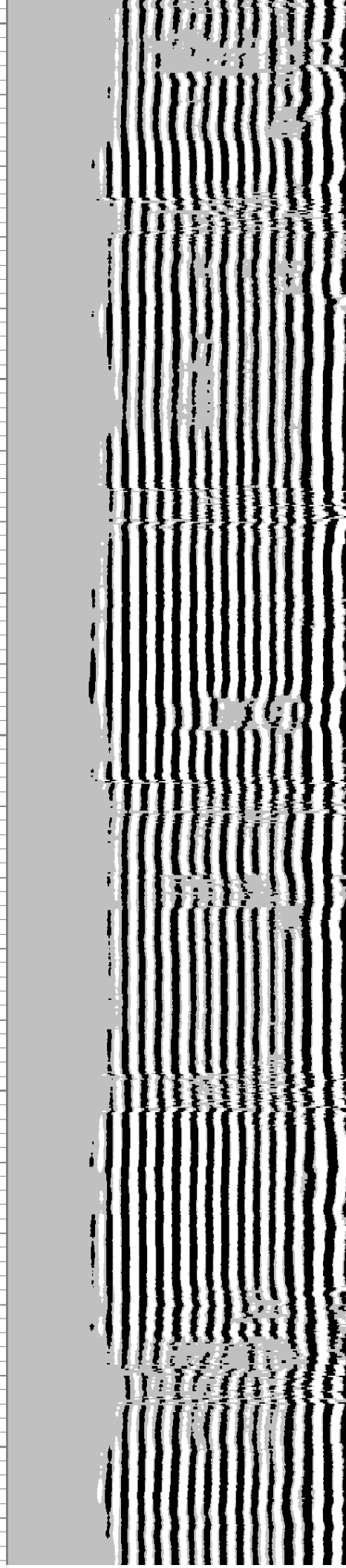
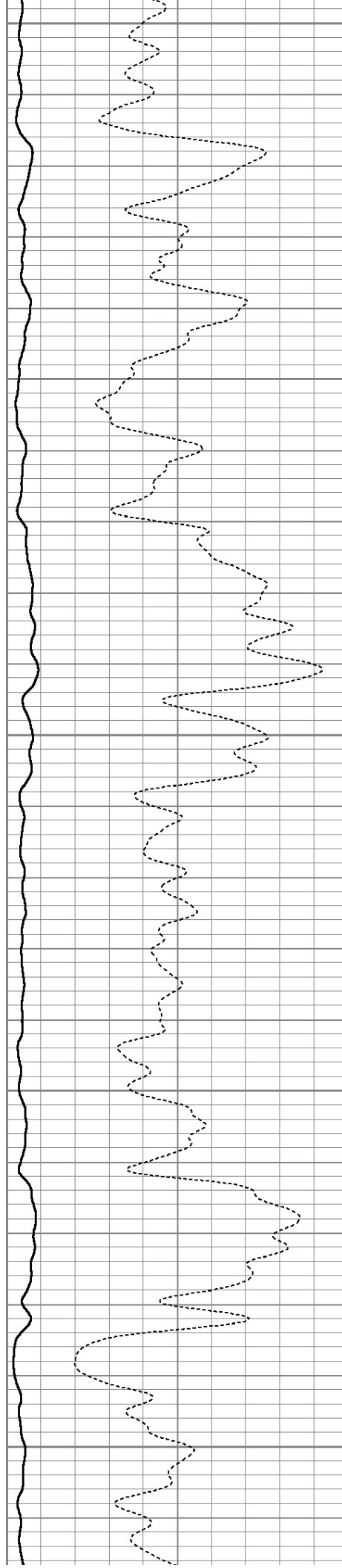
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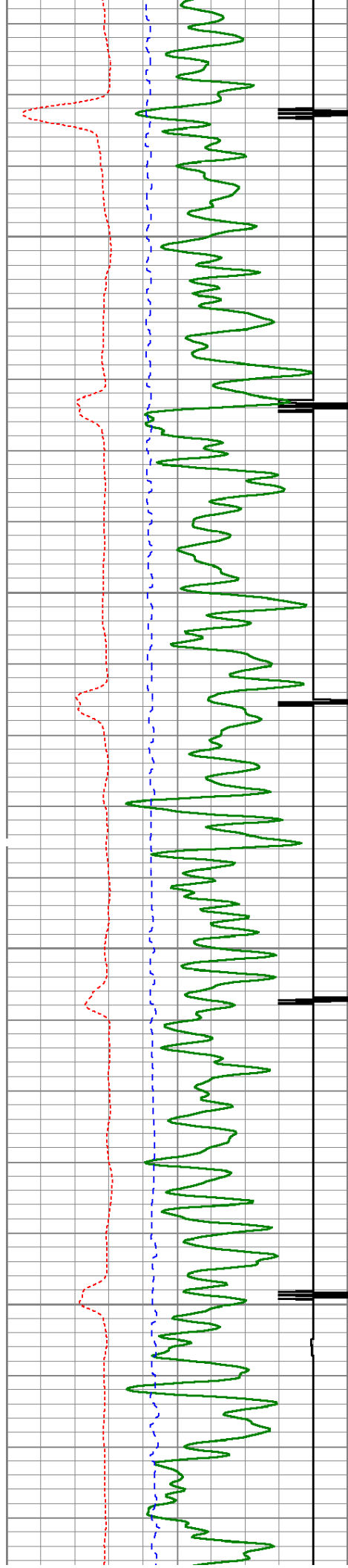
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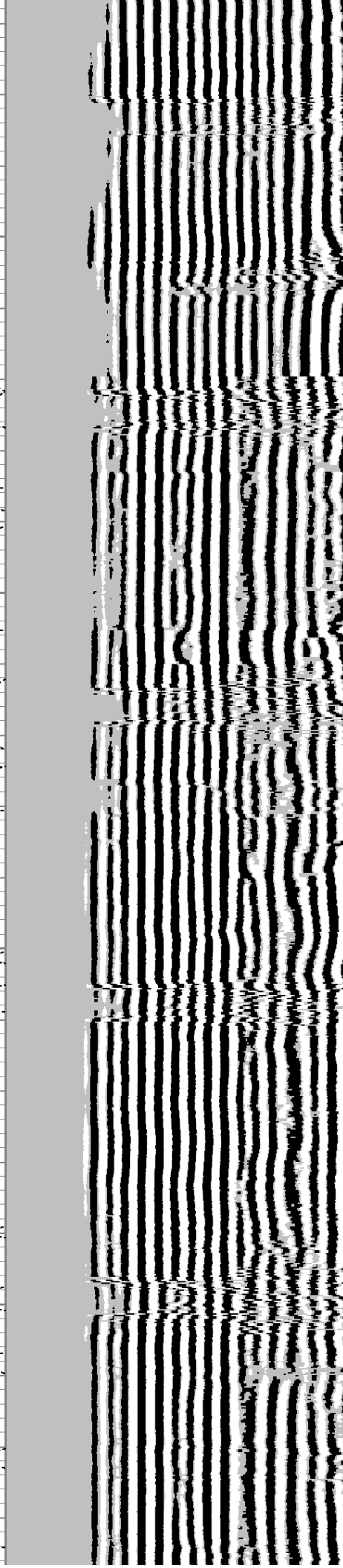
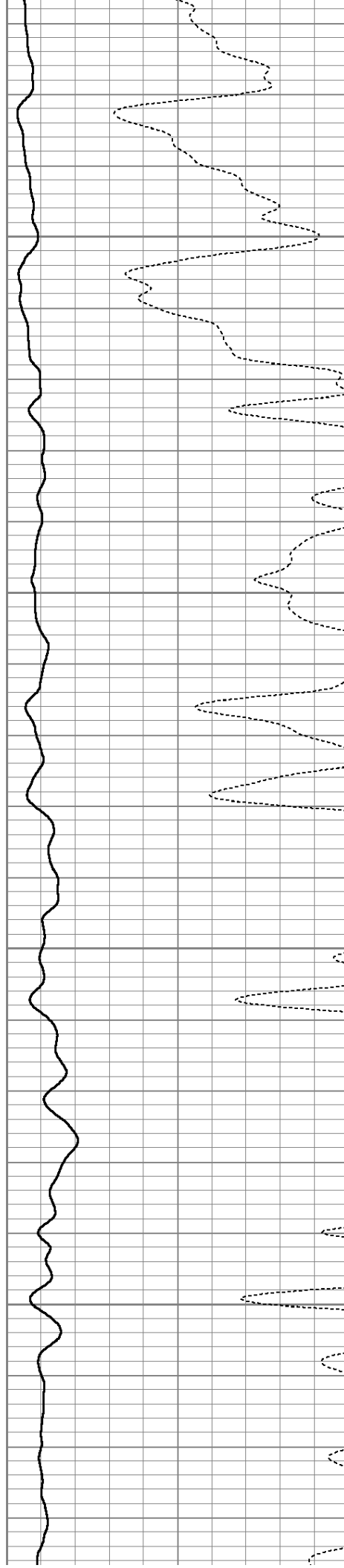


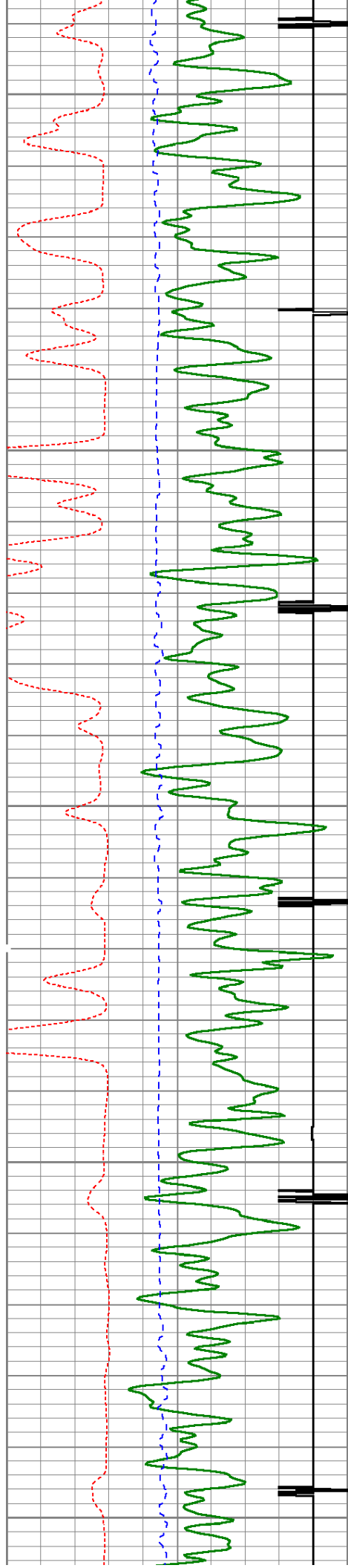
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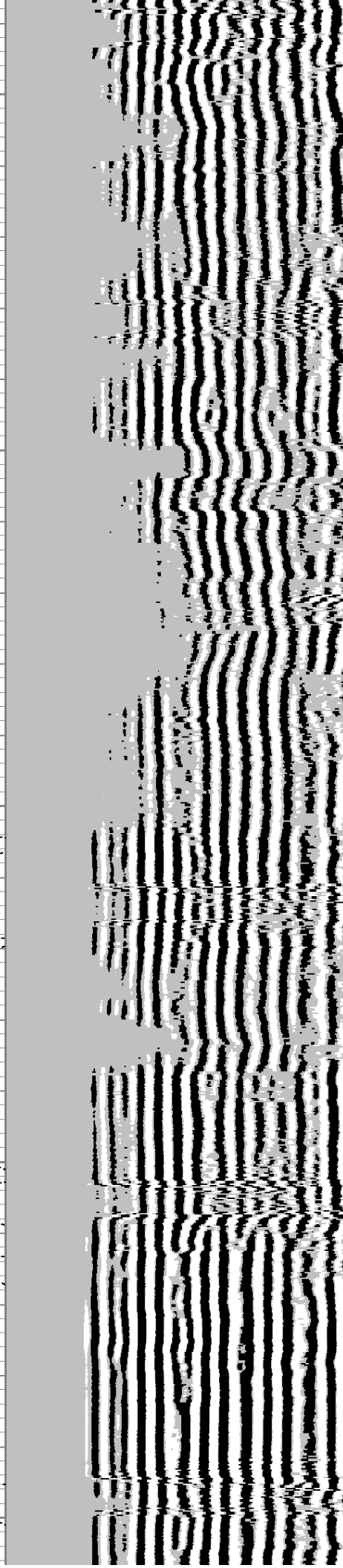
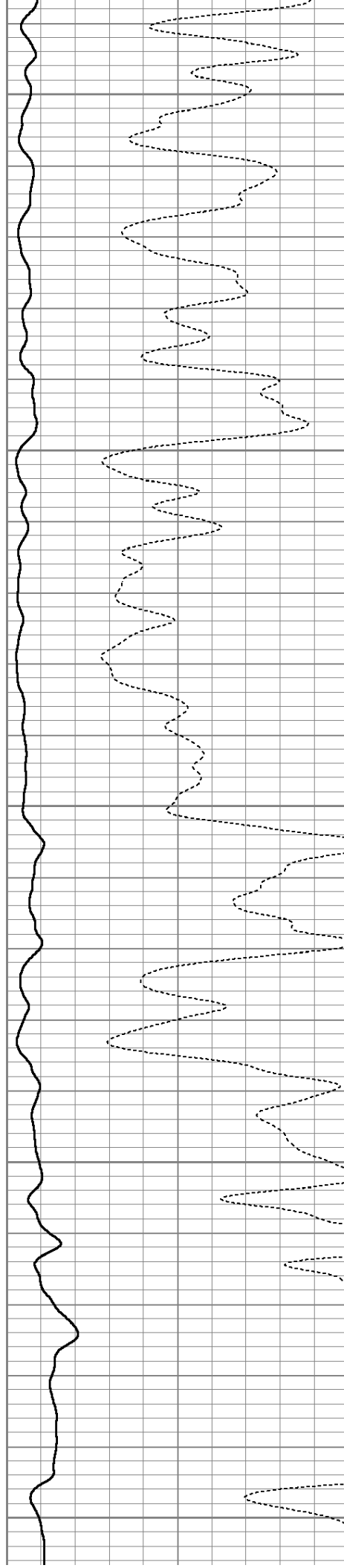
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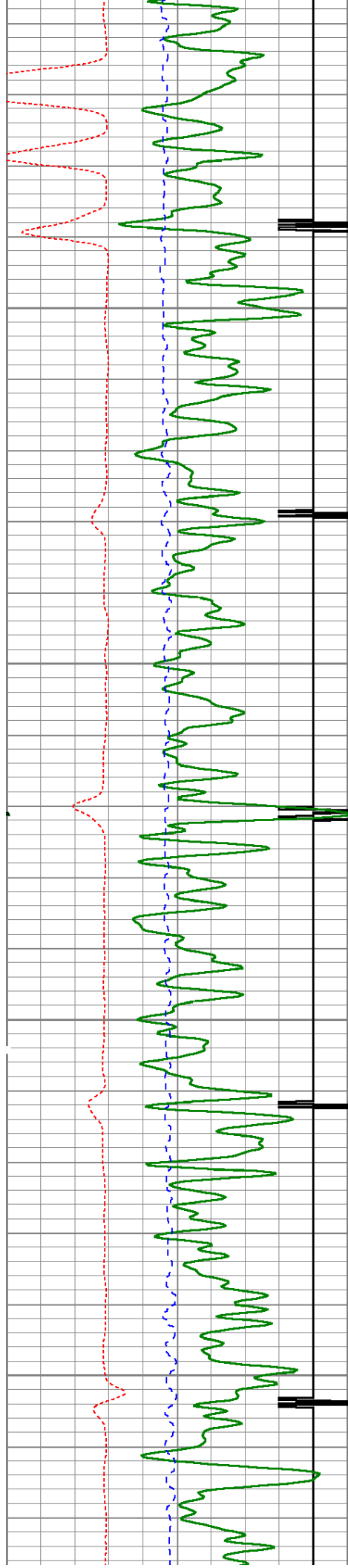
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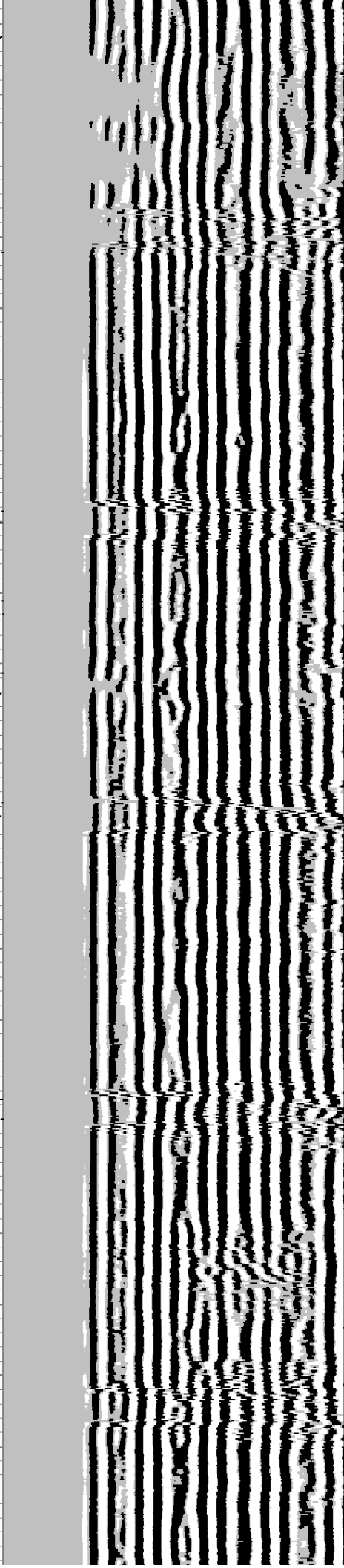
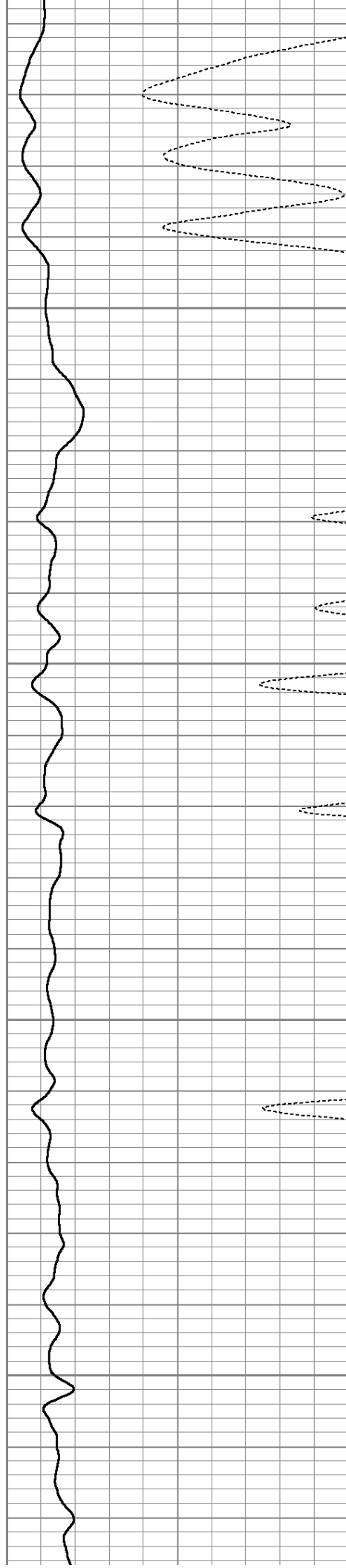


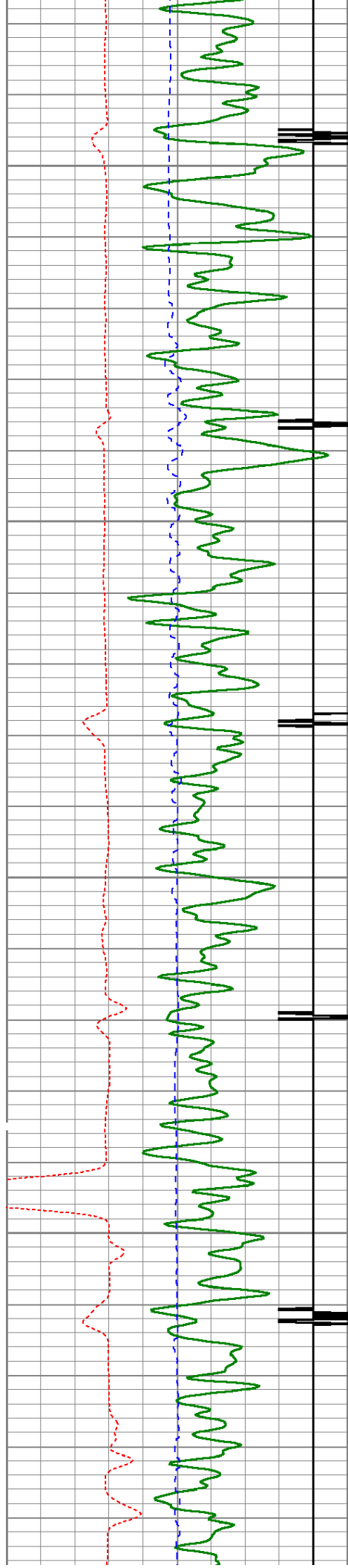
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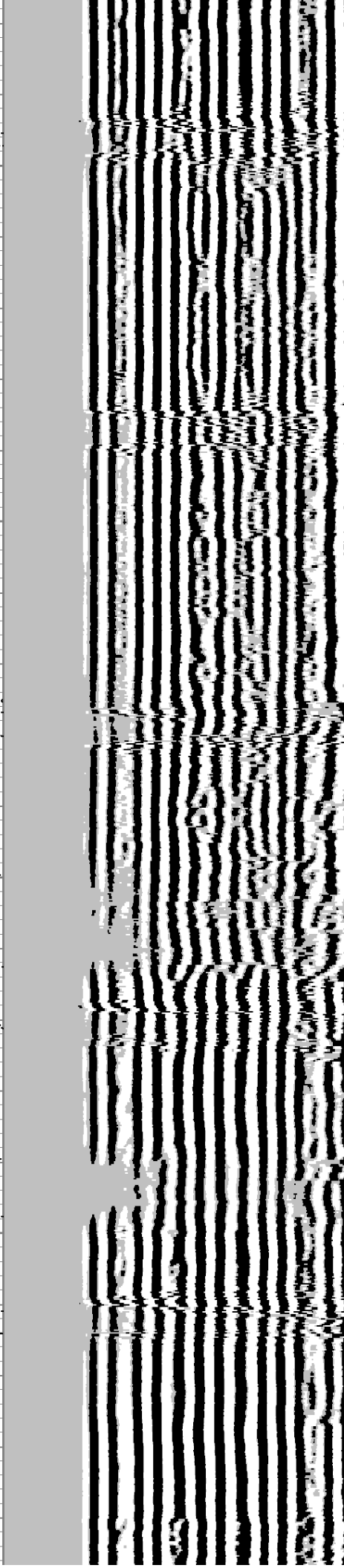
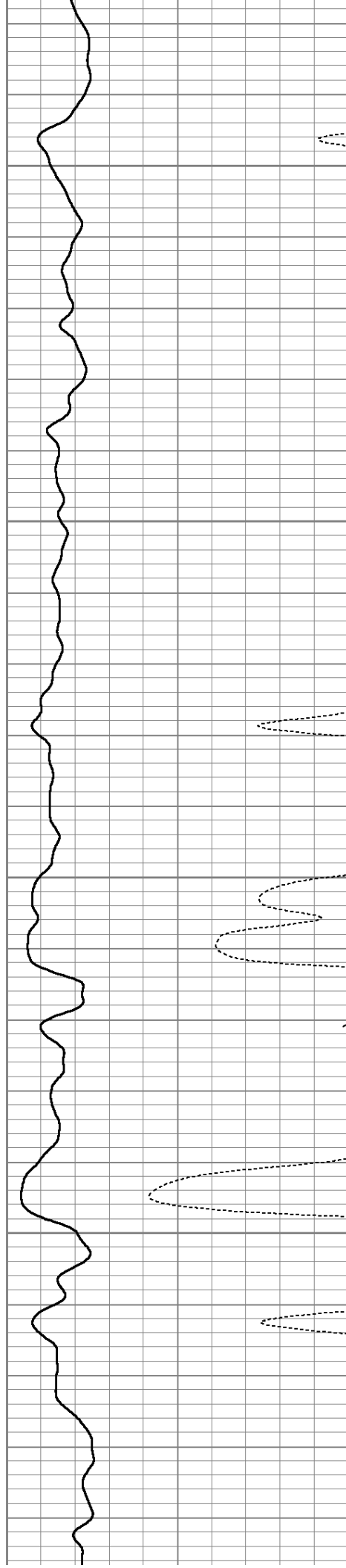


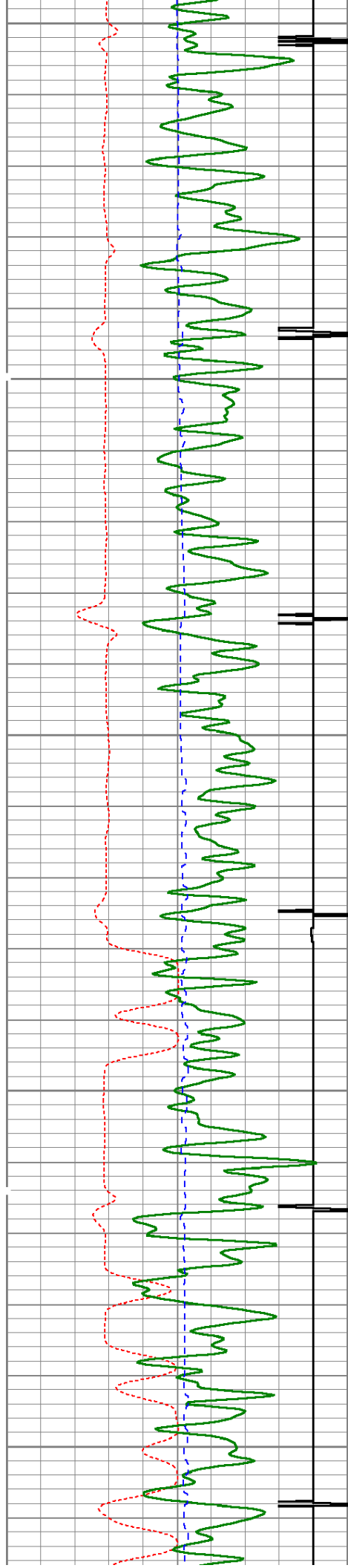
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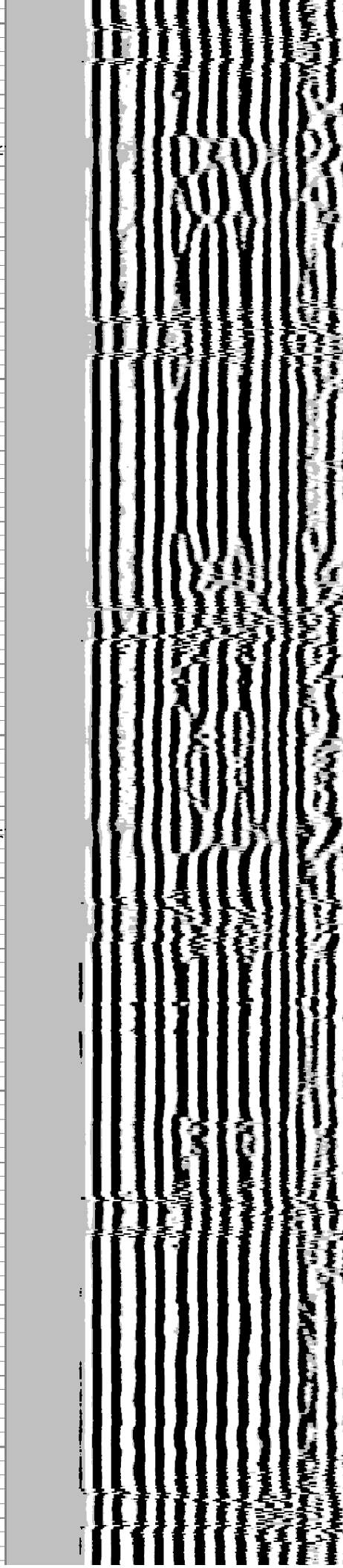
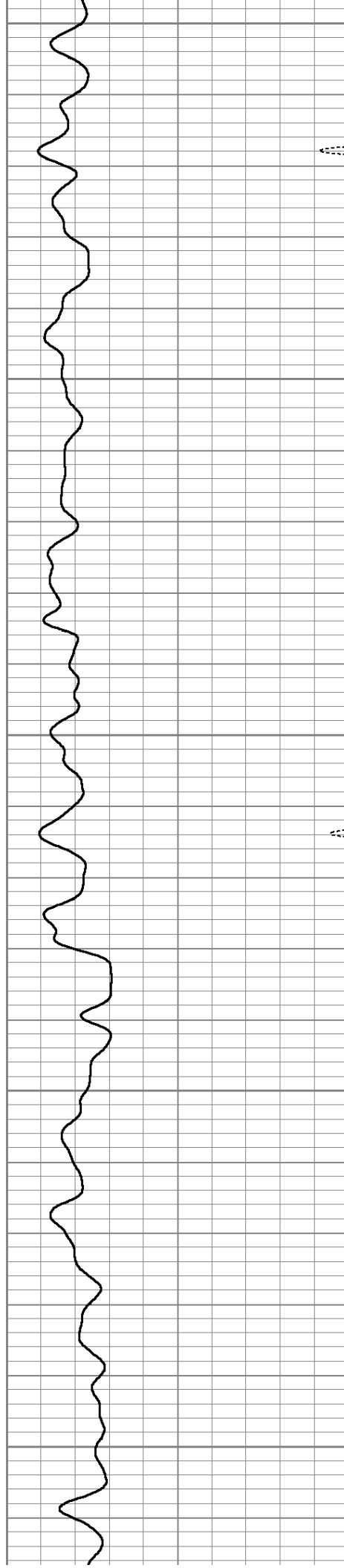
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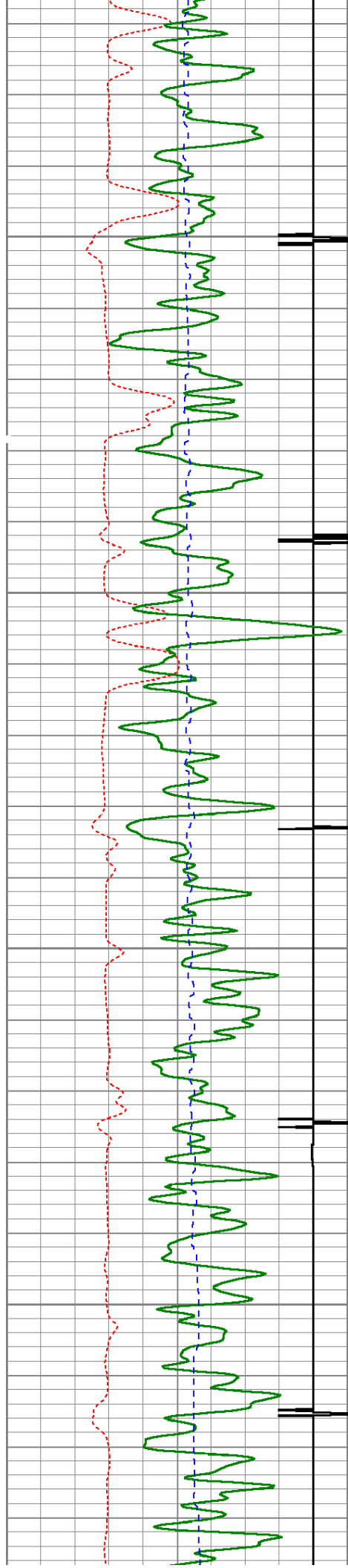
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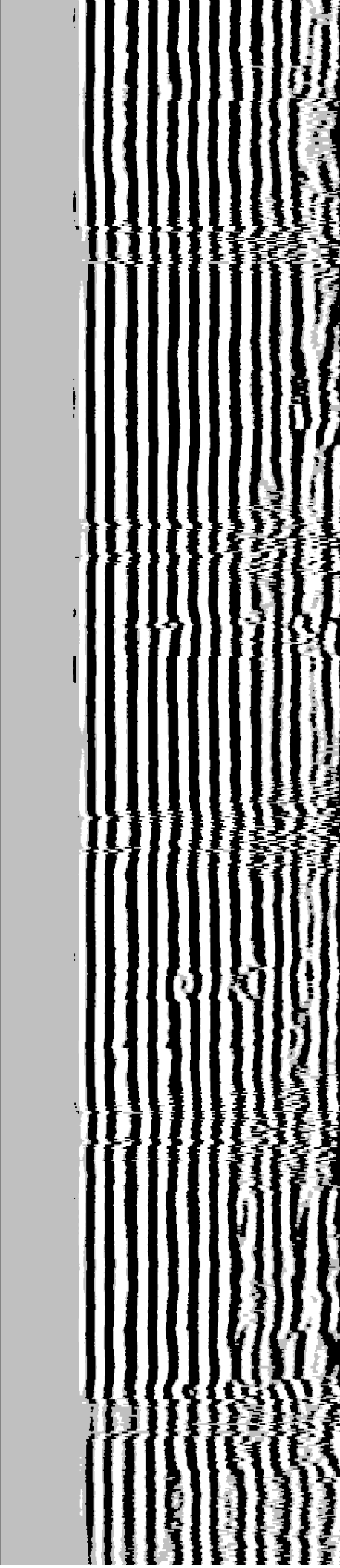
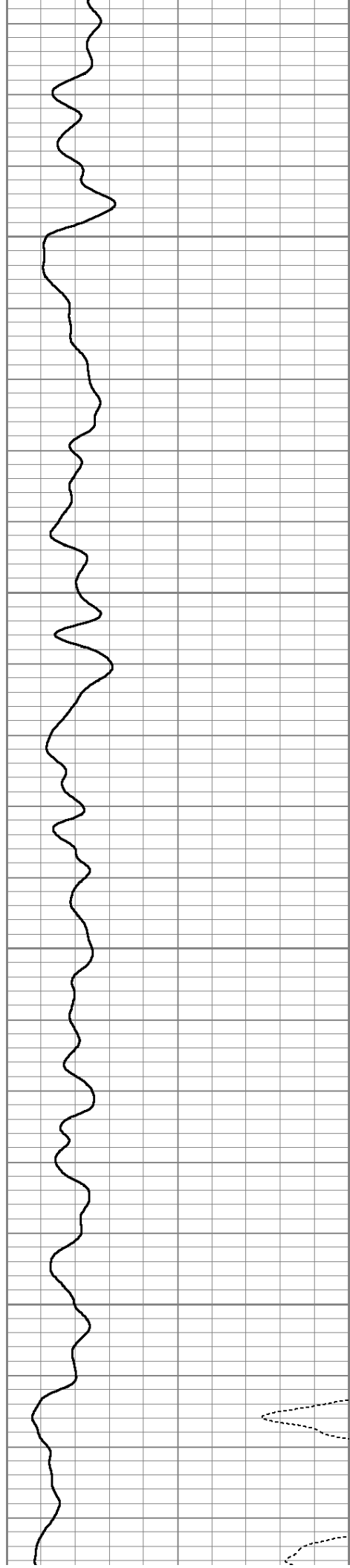


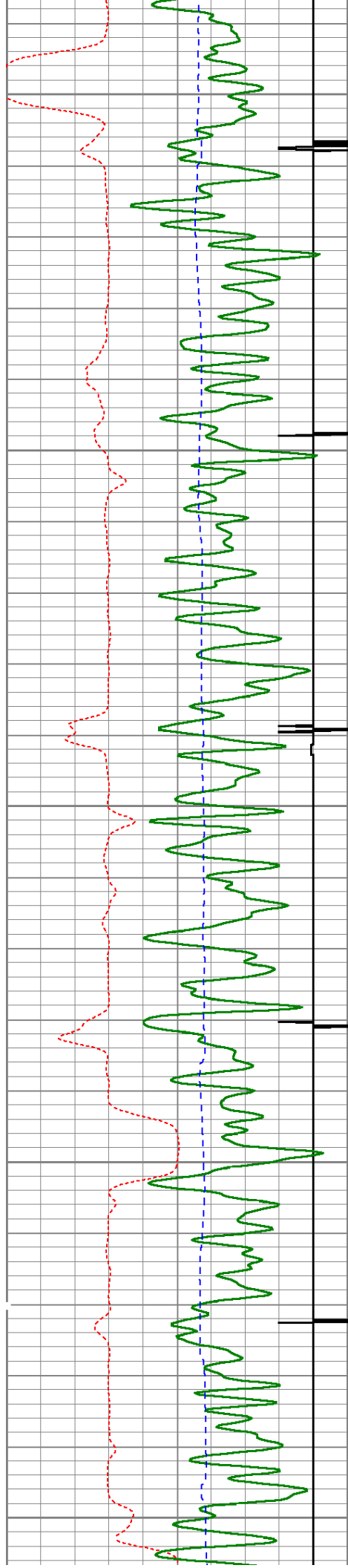
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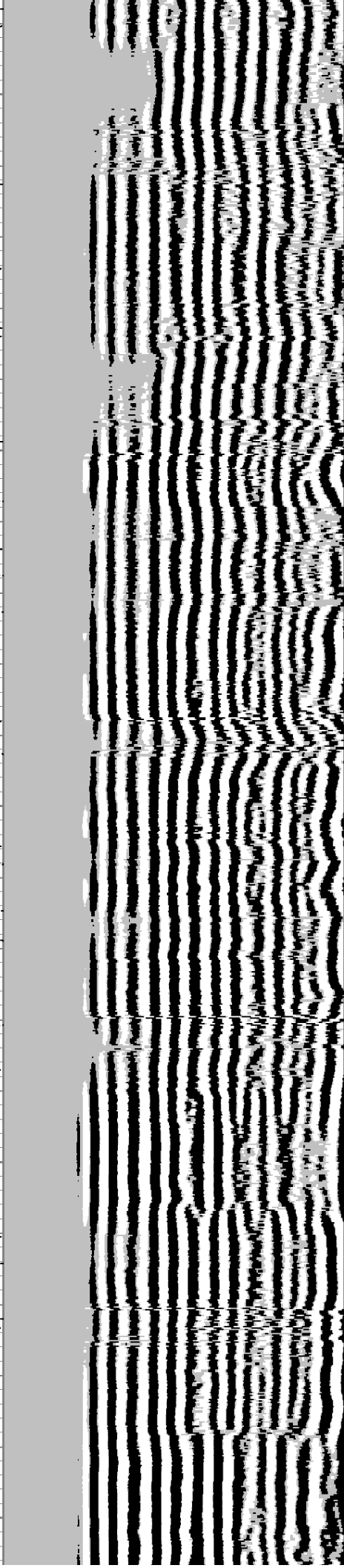
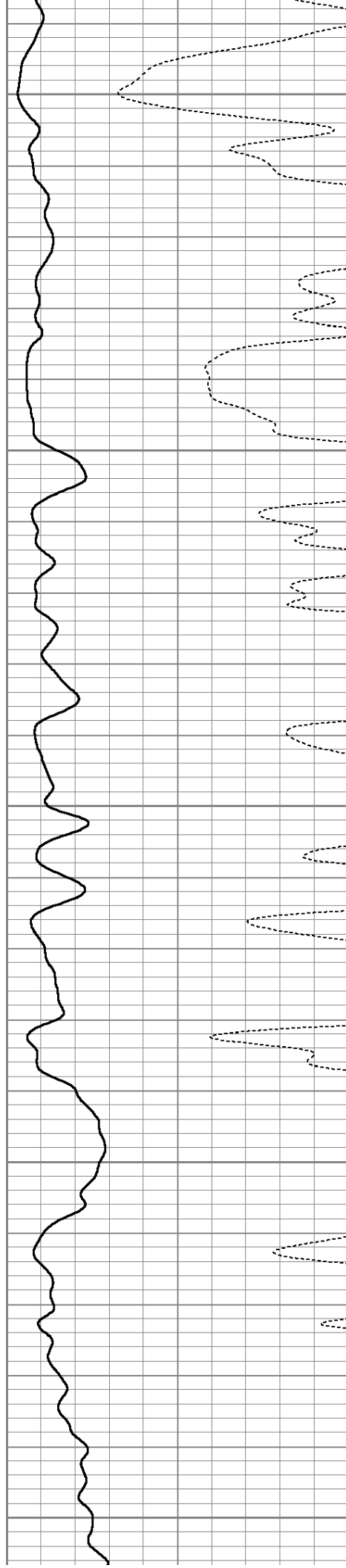
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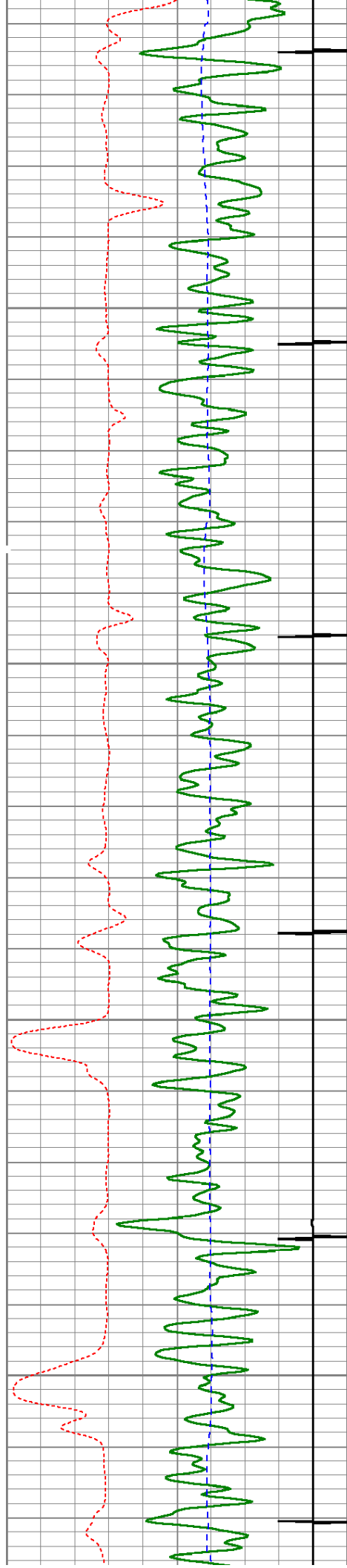
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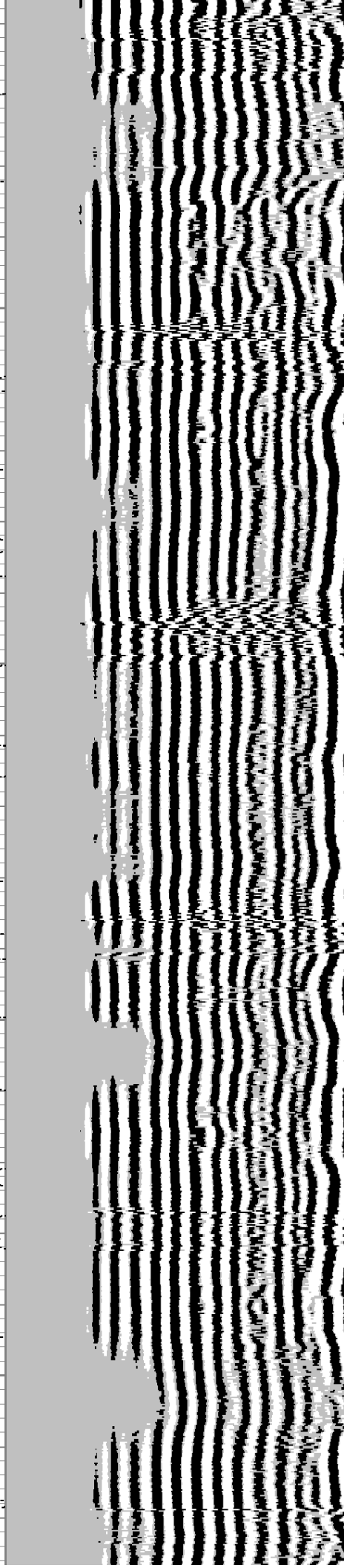
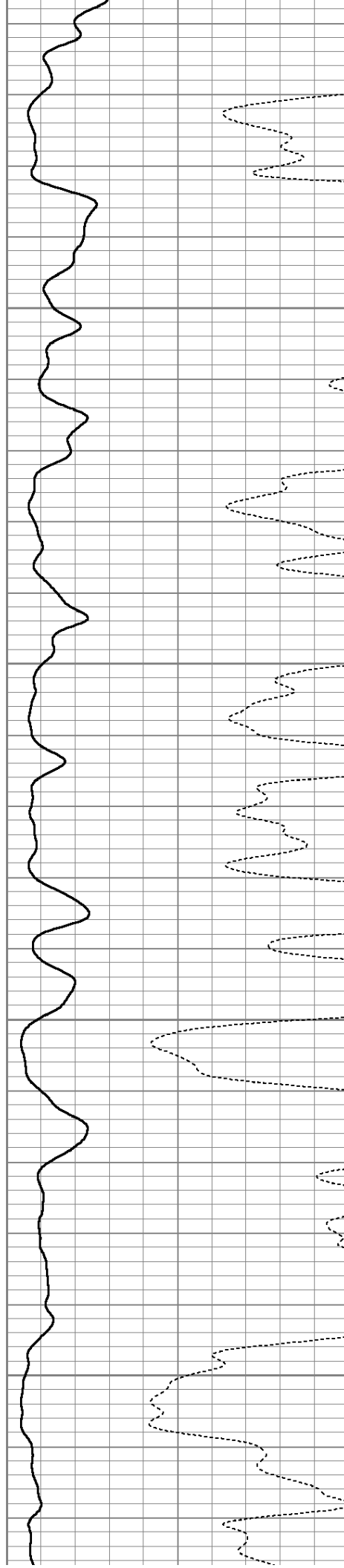


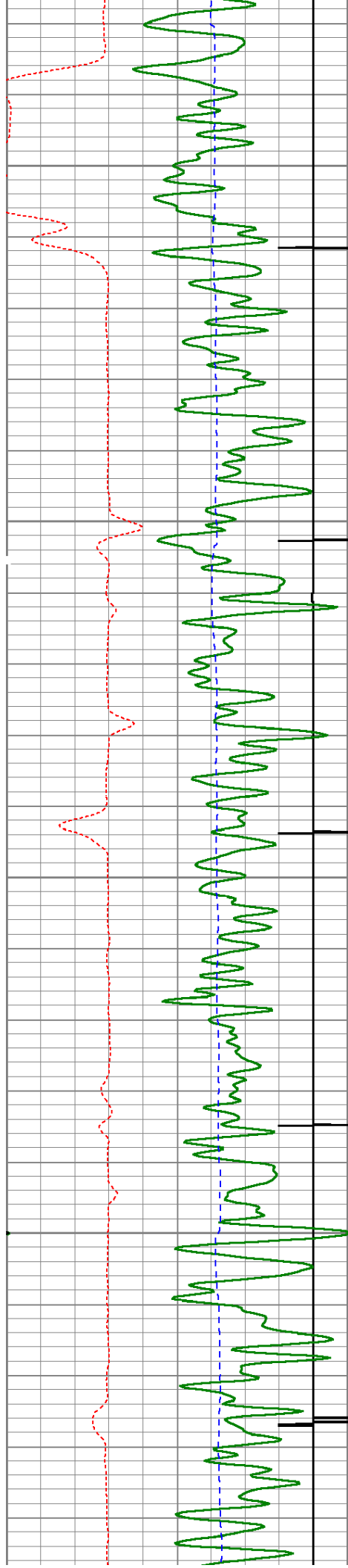
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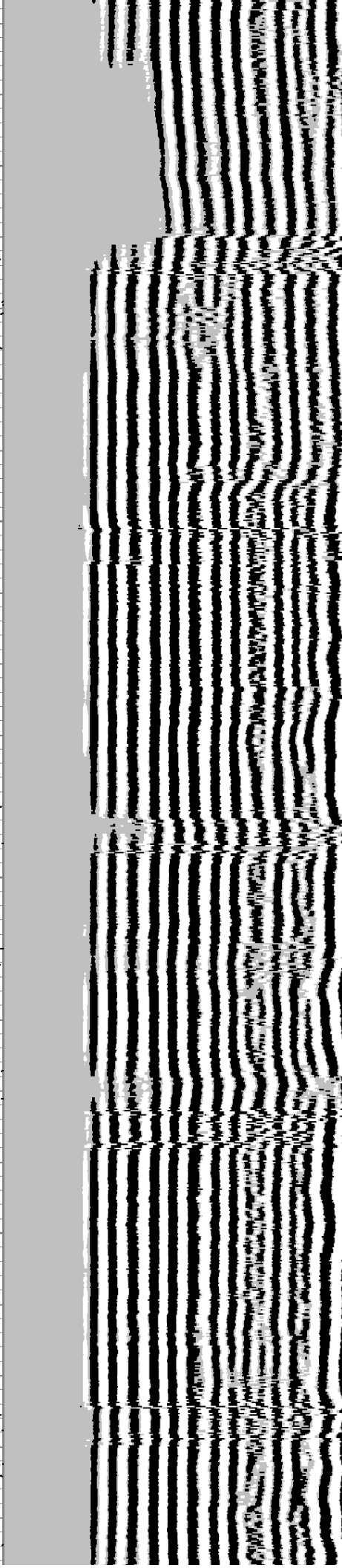
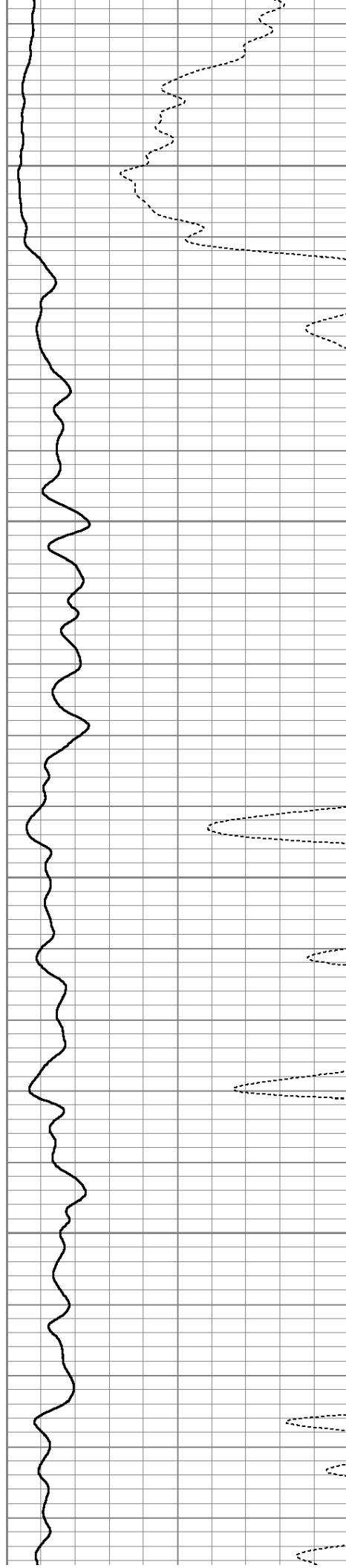


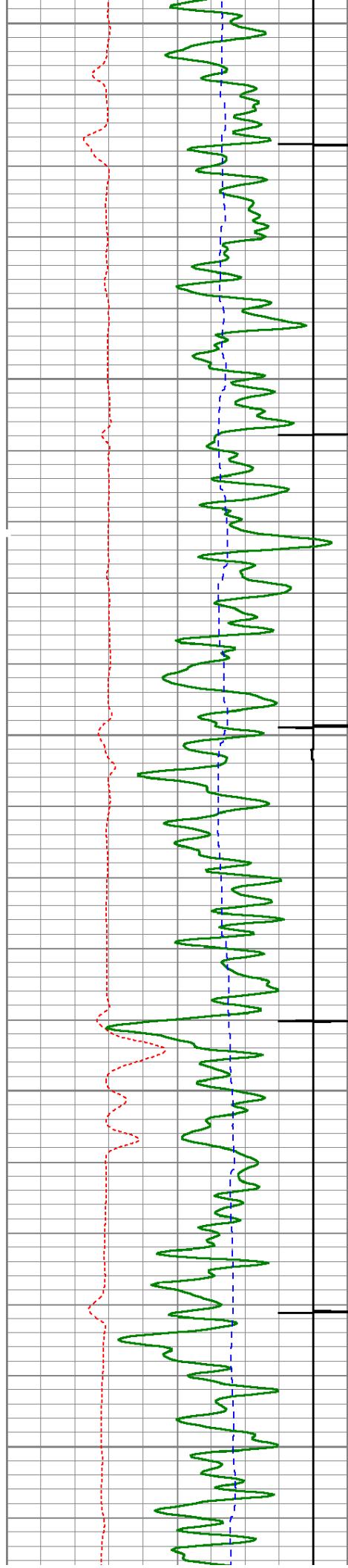
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5750

5800

5850





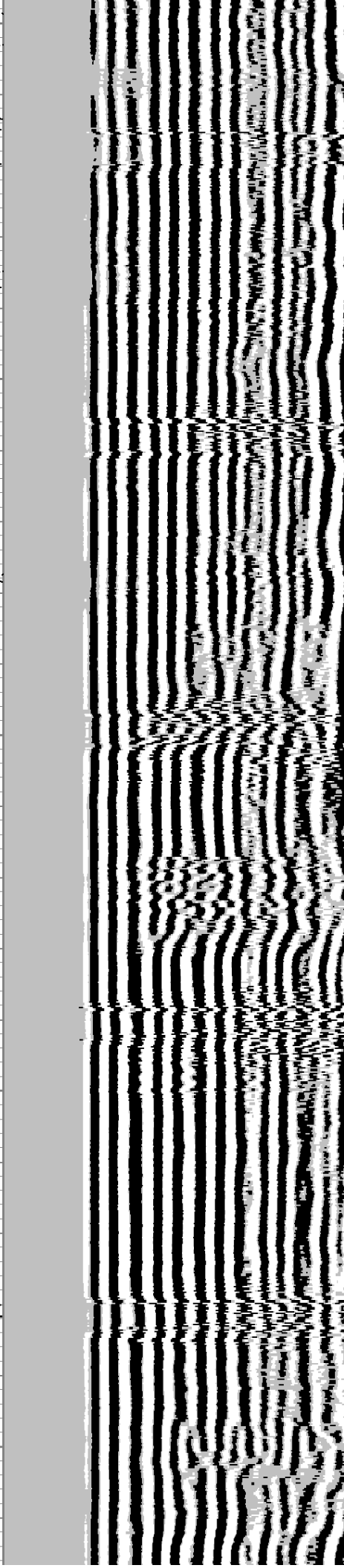
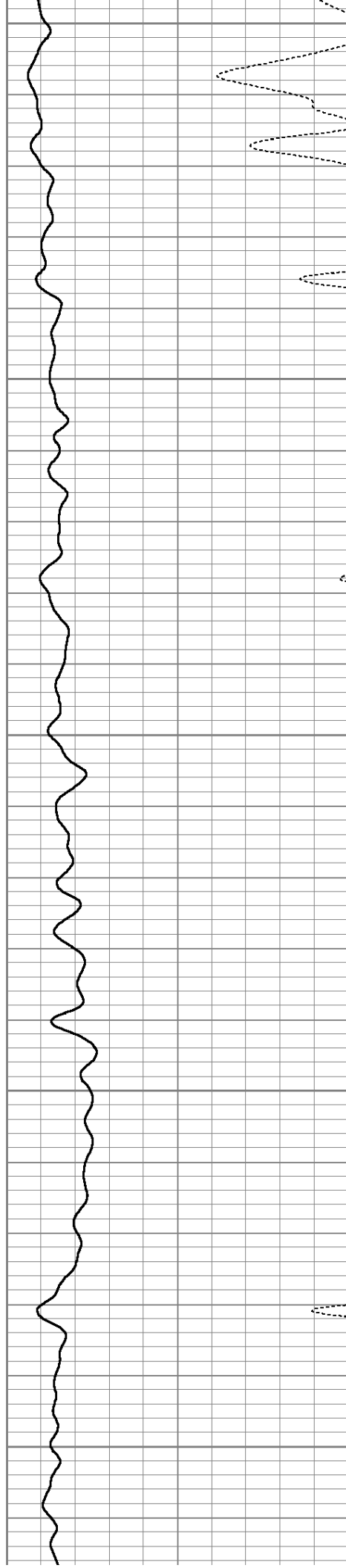
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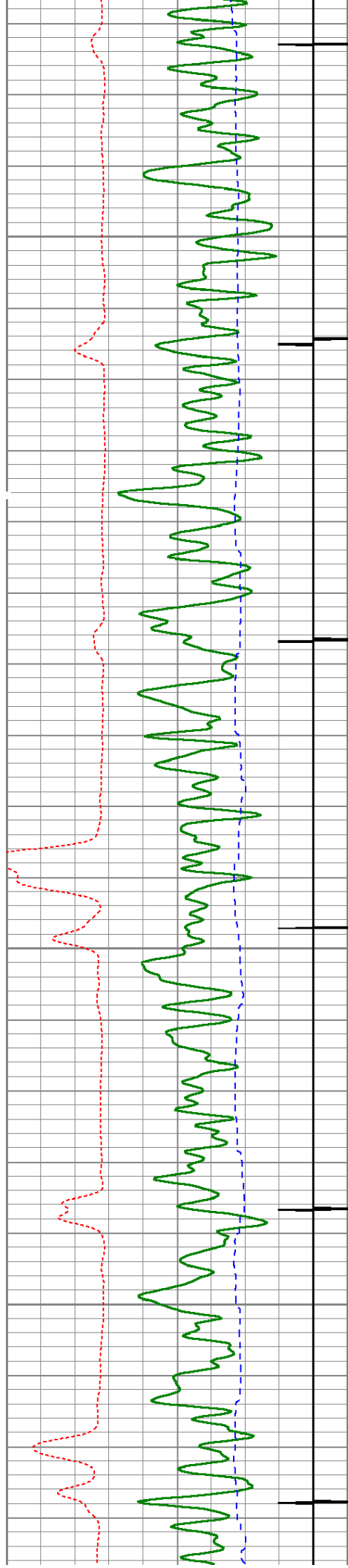
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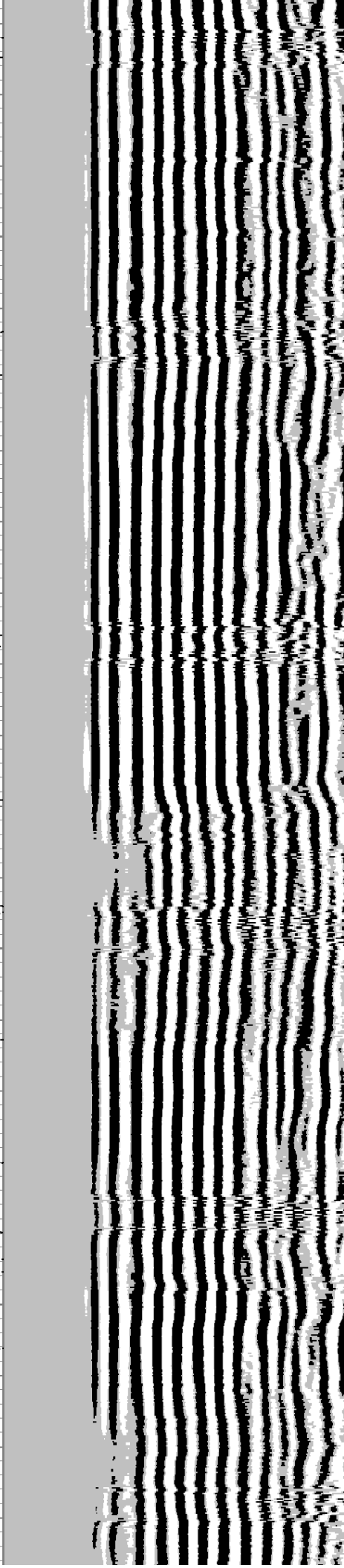
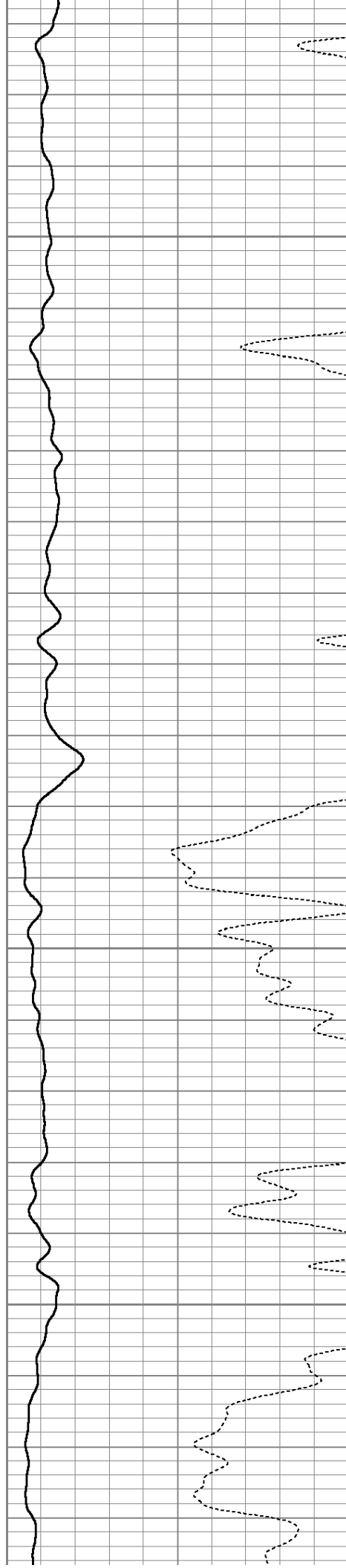


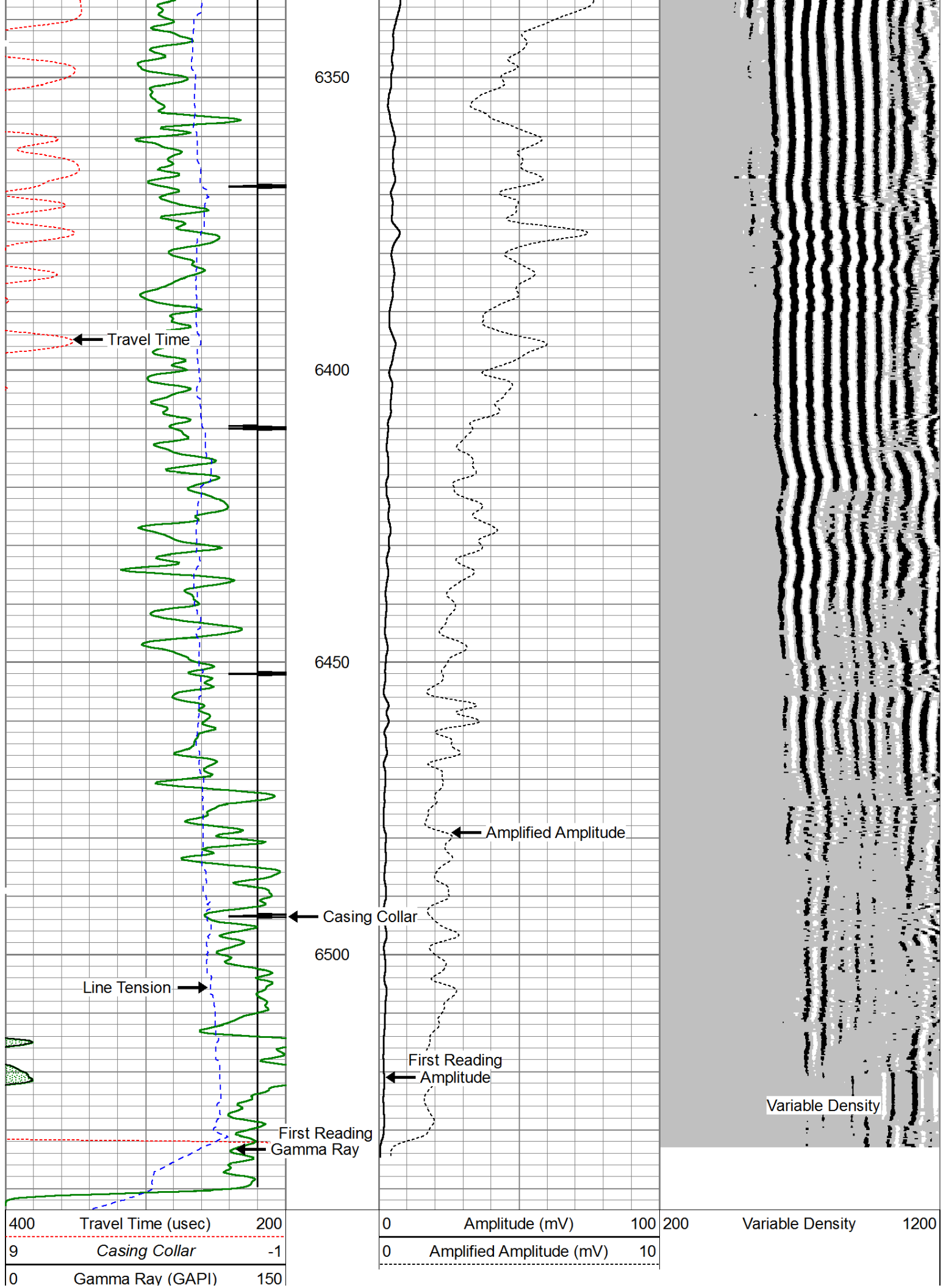
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6200

6250

6300





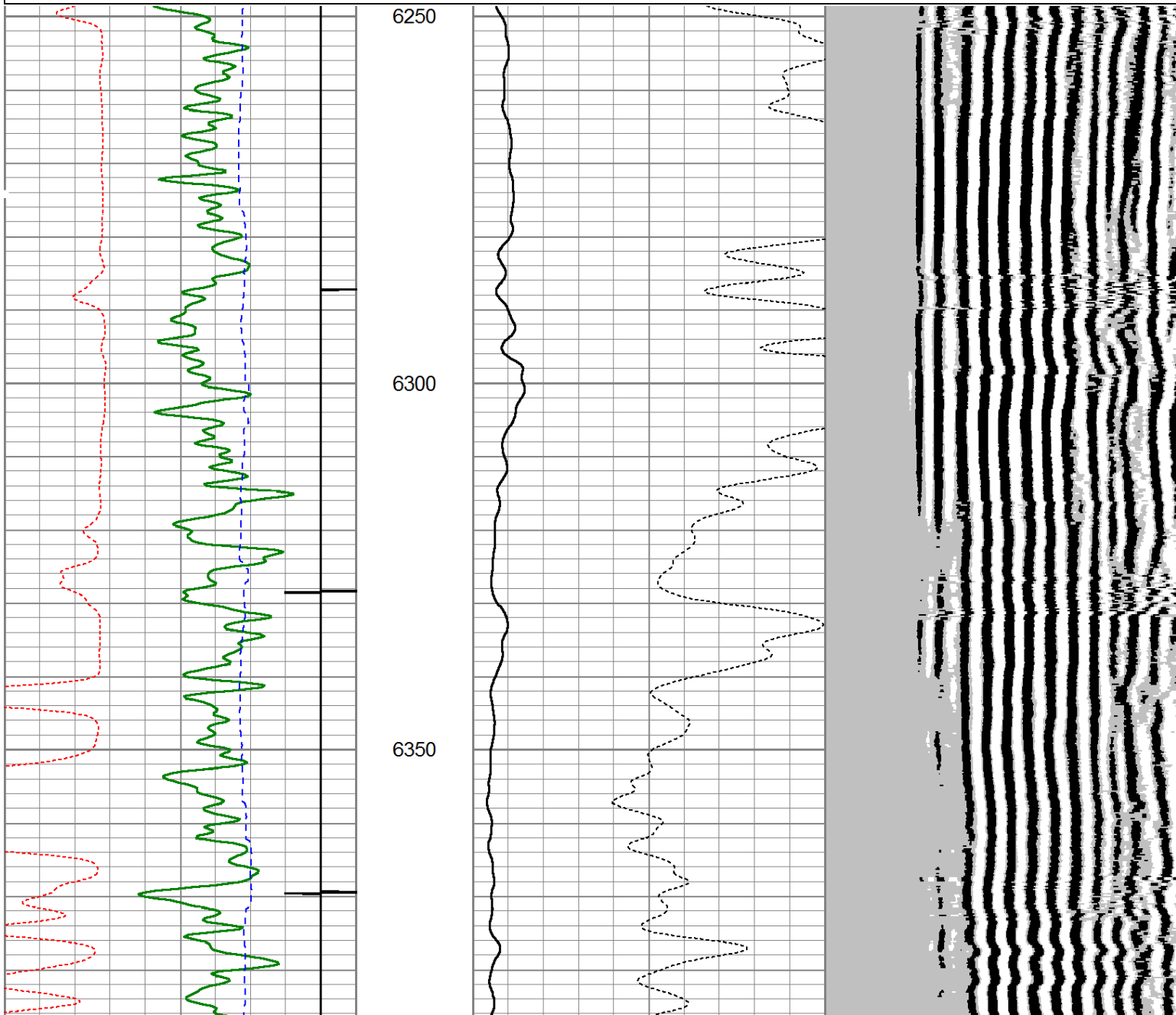
0	Line Tension (lb)	2000
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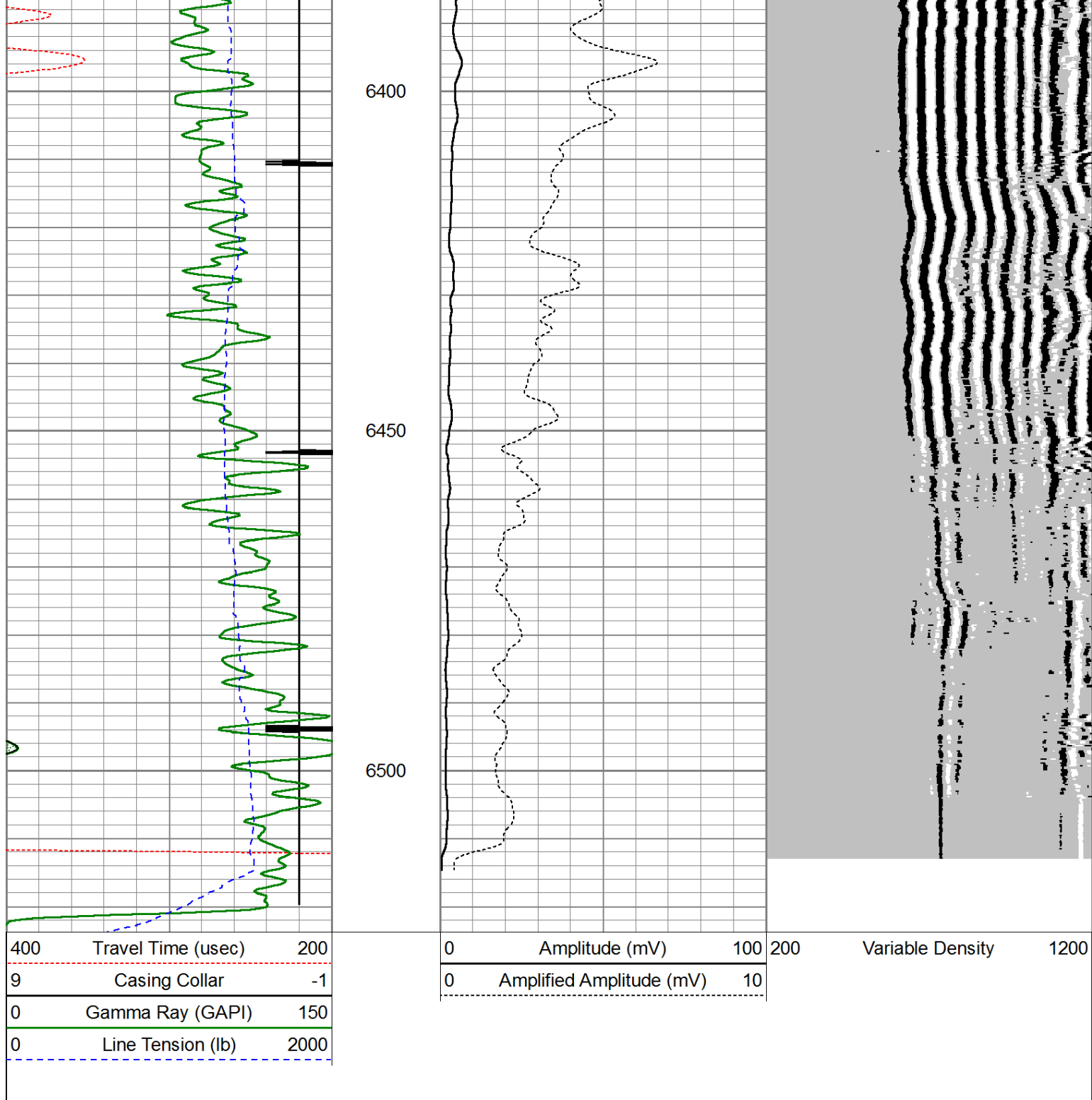


Repeat Pass (0 PSI)

Database File:	bonanza creek state secenty holes a-e-6hnb_cbl.db
Dataset Pathname:	pass2
Presentation Format:	cblprobe
Dataset Creation:	Sat Oct 04 09:53:49 2014 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

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)	2000						





Calibration Report

Database File: bonanza creek state secenty holes a-e-6hnb_cbl.db
 Dataset Pathname: pass4
 Dataset Creation: Sat Oct 04 10:01:03 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number: 110109-Dig
 Tool Model: Probe275
 Performed: Fri Oct 03 14:09:32 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity:

0.8500

GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 111107

Tool Model: Probe

Calibration Casing Diameter: 5.500 in

Calibration Depth: 0.000 ft

Master Calibration, performed Fri Oct 03 14:07:19 2014:

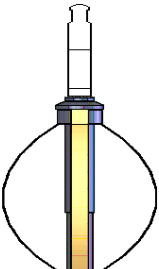
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.006	0.714	1.000	71.921	100.065	0.439
CAL	0.004	0.714				
5'	0.012	0.660	1.000	71.921	109.556	-0.360
SUM						
S1	-0.065	0.699	0.000	100.000	130.823	8.520
S2	0.019	0.717	0.000	100.000	143.322	-2.715
S3	0.008	0.696	0.000	100.000	145.375	-1.125
S4	0.007	0.718	0.000	100.000	140.681	-1.053
S5	0.007	0.731	0.000	100.000	138.196	-1.029
S6	0.008	0.715	0.000	100.000	141.451	-1.140
S7	0.009	0.692	0.000	100.000	146.338	-1.279
S8	0.009	0.696	0.000	100.000	145.550	-1.270

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.714	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	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

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