



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

Company		Bayswater EMP								
Well		Blehm 16-19								
Field		Wattenberg								
County		Weld								
State		Colorado								
Company		Bayswater EMP								
Well		Blehm 16-19								
Field		Wattenberg								
County		Weld								
State		Colorado								
Location:		API # : 05-123-37695								
Permanent Datum		Ground Level		Elevation						
Log Measured From		Kelly Bushing 13' APD		4978'						
Drilling Measured From		Kelly Bushing		Elevation						
SHL: 1785' FSL & 503' FEL NESE		SEC 19 TWP 7N RGE 67W		NONE						
BHL: 674' FSL & 682' FEL SESE										
February 11, 2014										
Run Number		1								
Depth Driller		7325'								
Depth Logger		7142'								
Bottom Logged Interval		7130'								
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		950'								
Time Well Ready		10:31								
Time Logger on Bottom		11:10								
Equipment Number		13033								
Location		Brighton								
Recorded By		C. Rail								
Witnessed By		Susan Sears								
Borehole Record		Tubing Record								
Run Number		Bit		From		To	Size	Weight	From	To
Casing Record		Size		Wgt/Ft		Top		Bottom		
Surface String		8 5/8#		24#		0		793'		
Prot. String		4 1/2"		11.6#		0		7216'		
Production String										
Liner						6753'				6769'

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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

Secondary Log on Well
Correlated With Triple Combo From Pioneer 1/05/2014 (+7)

Main Pass and Repeat Pass logged with 0 PSI
Logged from 13' Kelly Bushing

Estimated Top Of Cement @ 950'
Short Joint @ 6753' To 6769'
Thank You For using Allied Wireline Services
(303) 659-4609



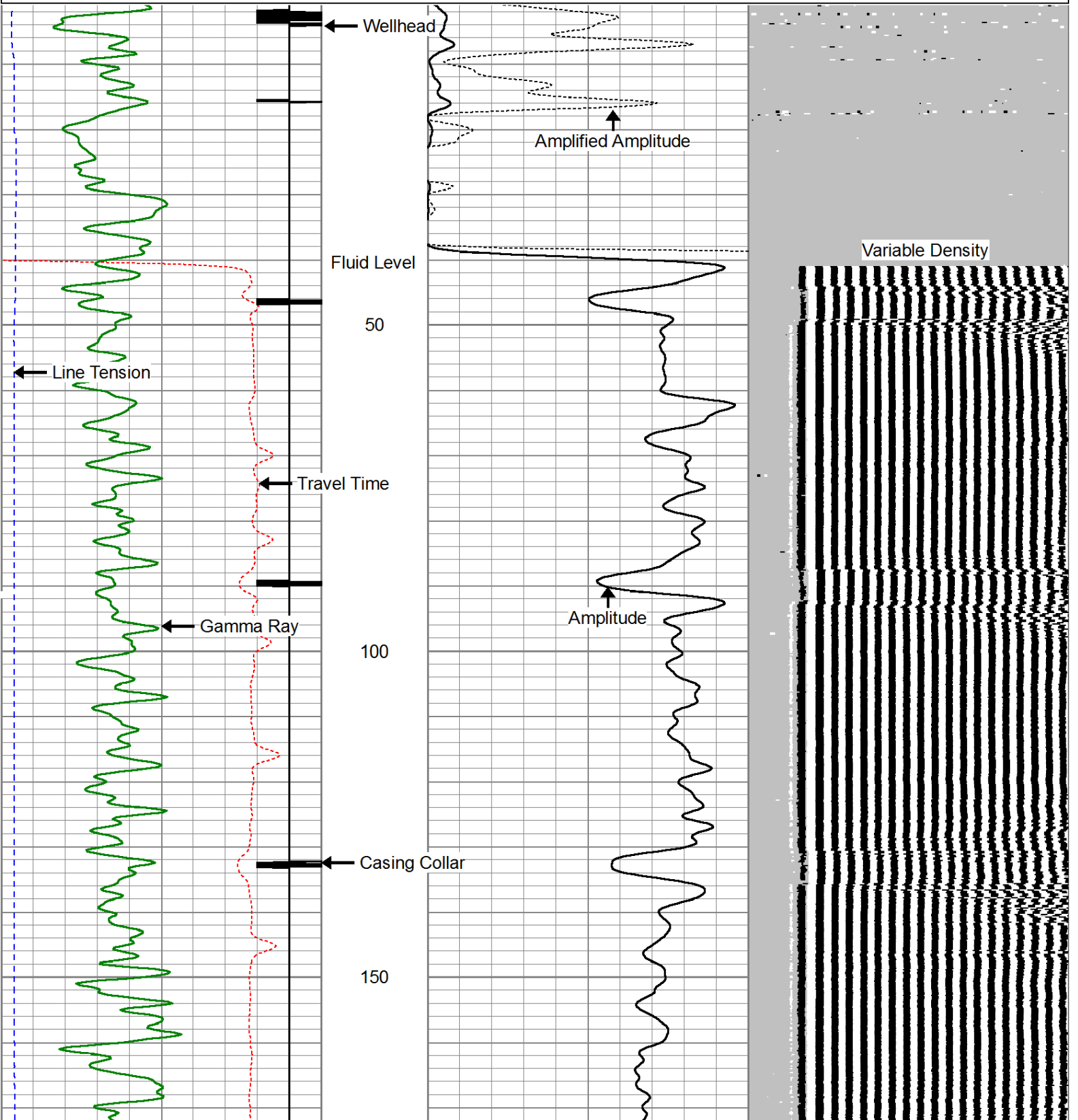
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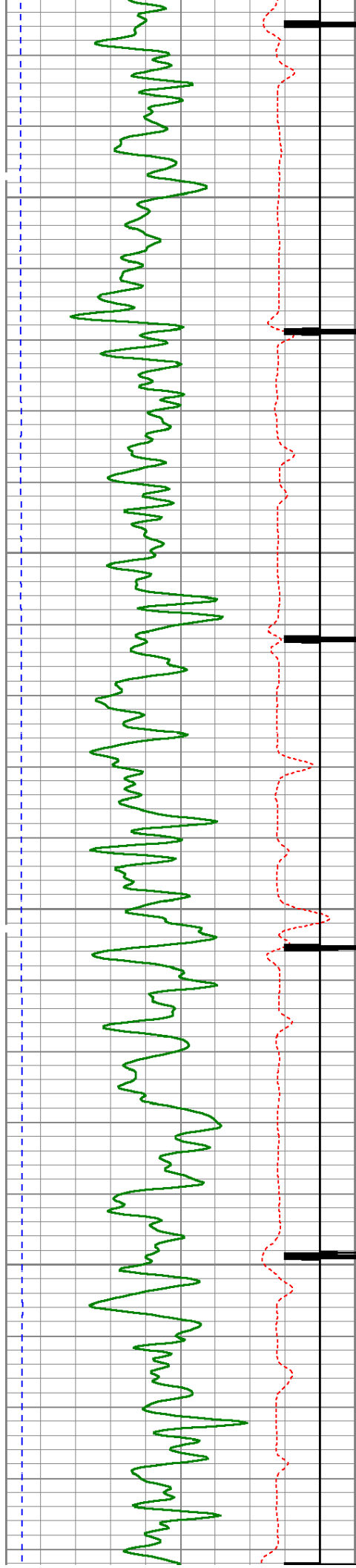
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Dataset Pathname: pass7
Presentation Format: cblprobe
Dataset Creation: Wed Feb 12 15:29:45 2014 by Calc 0
Charted by: Depth in Feet scaled 1:240

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



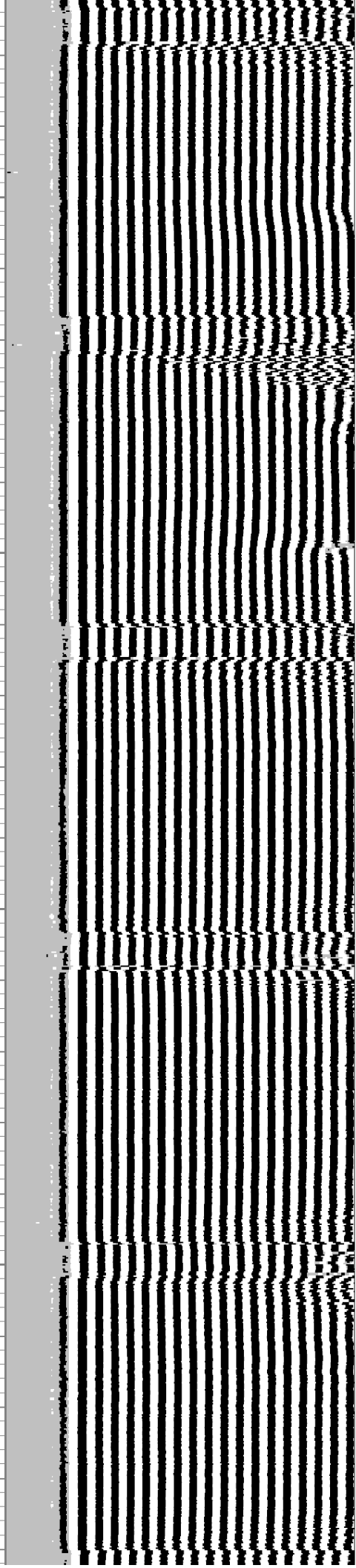
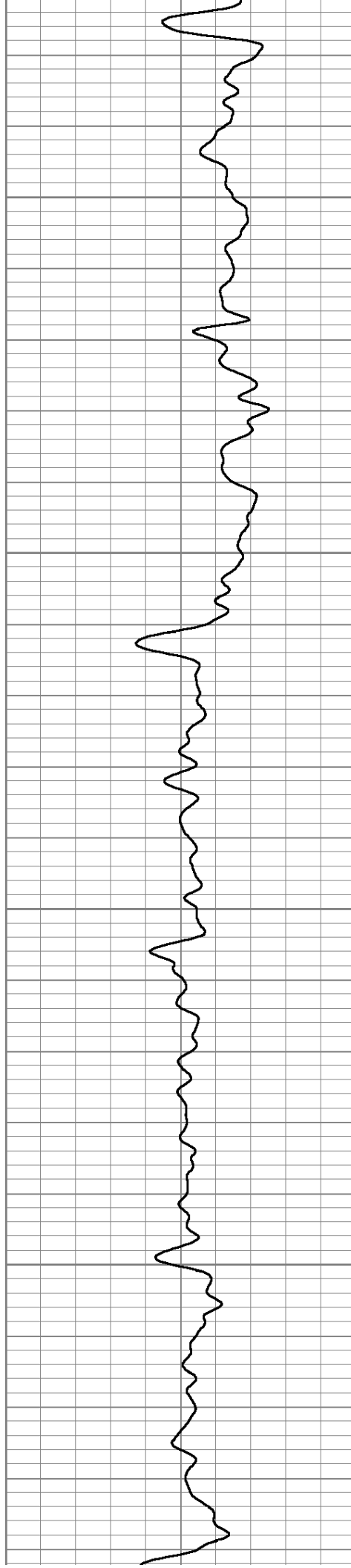


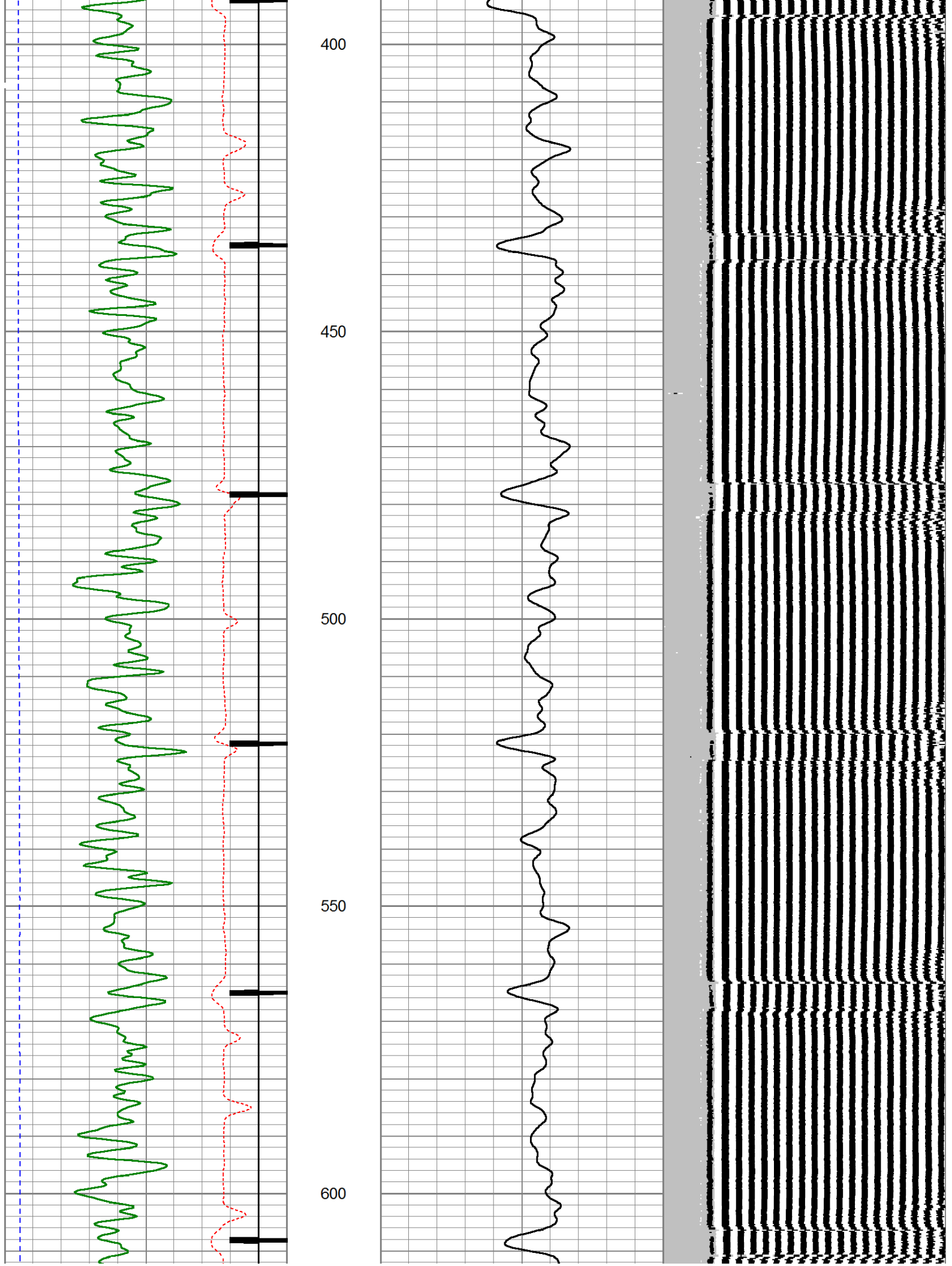
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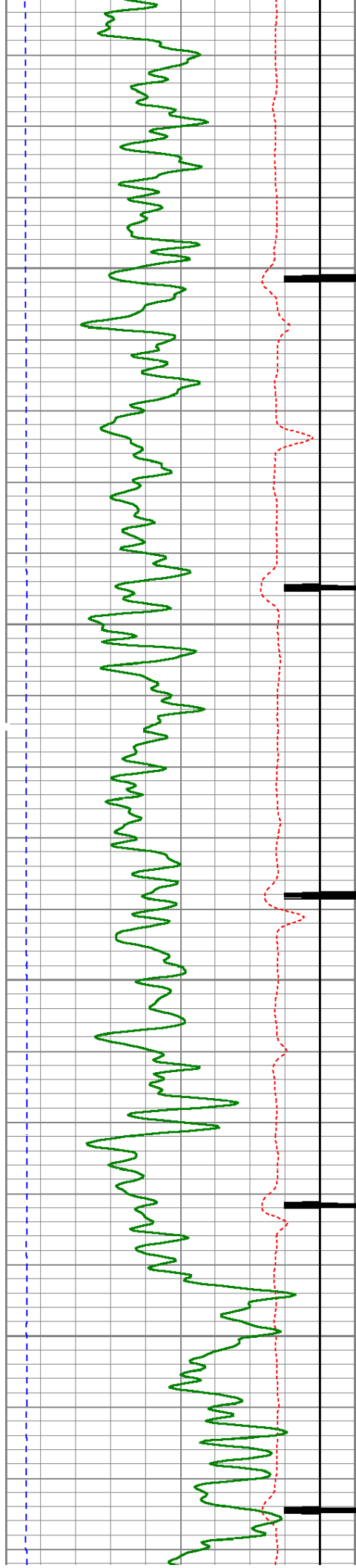
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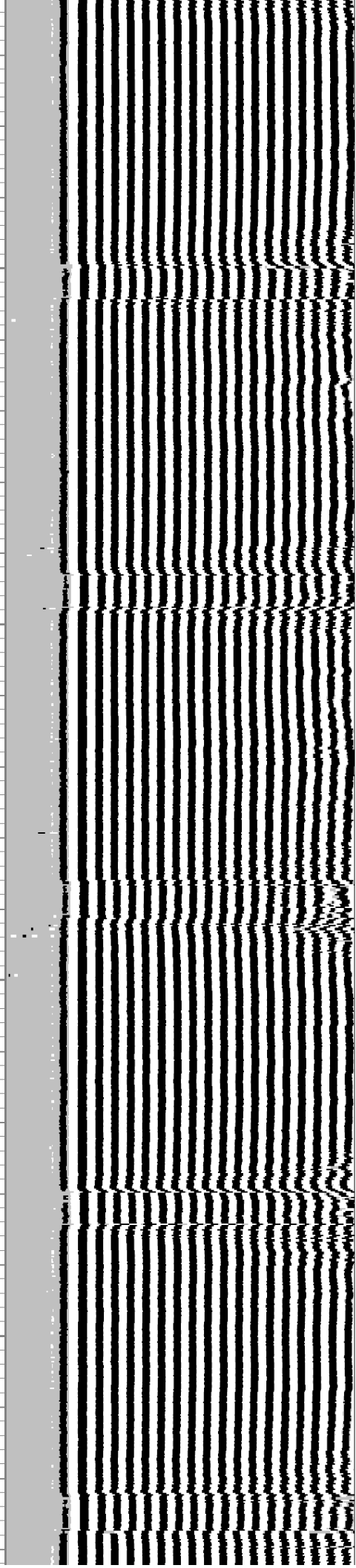
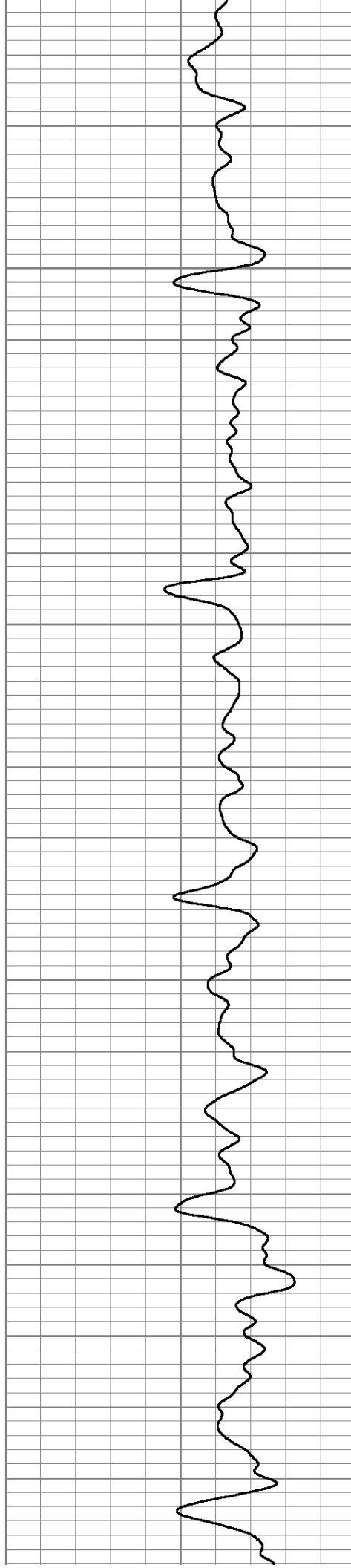


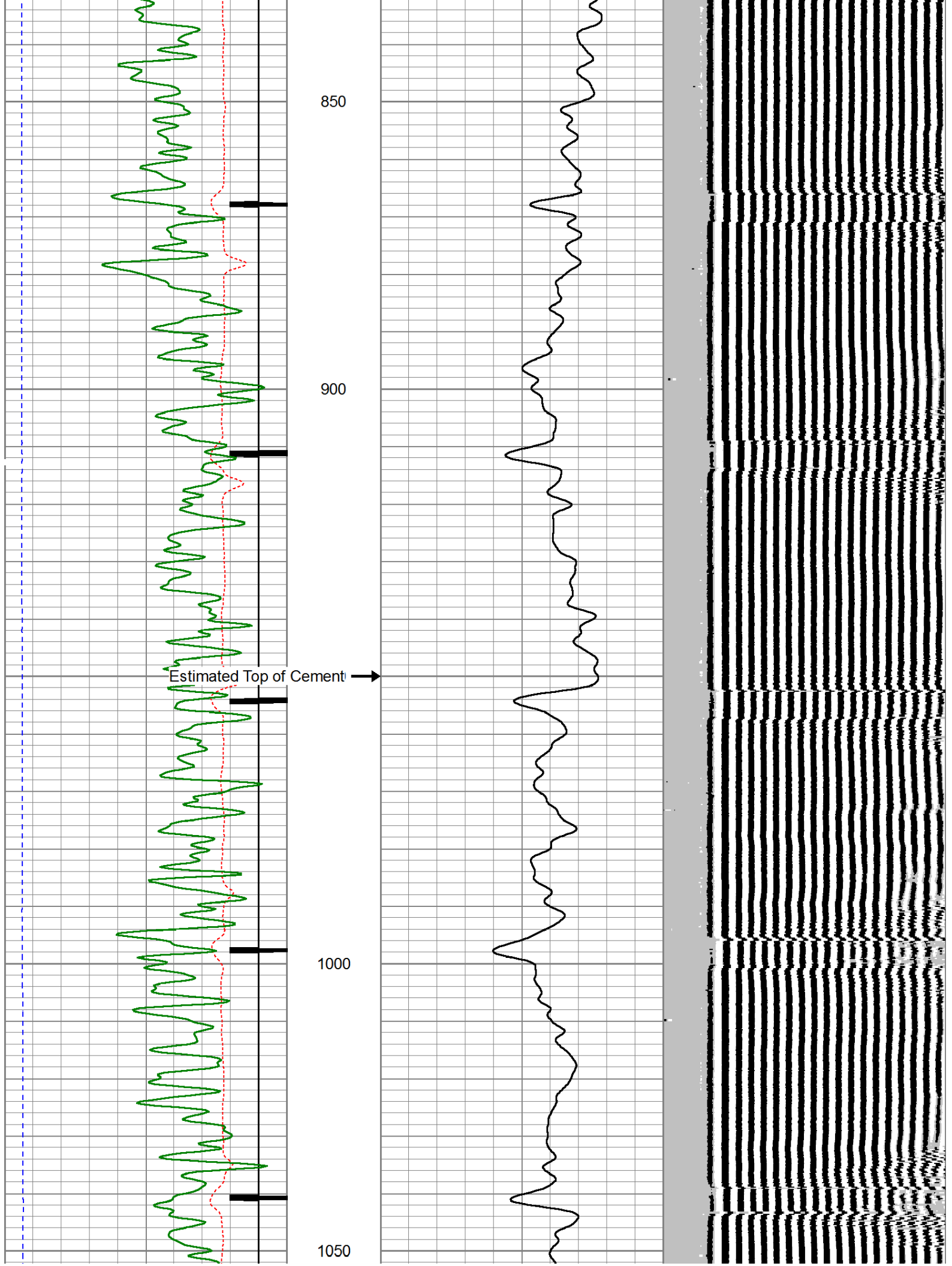
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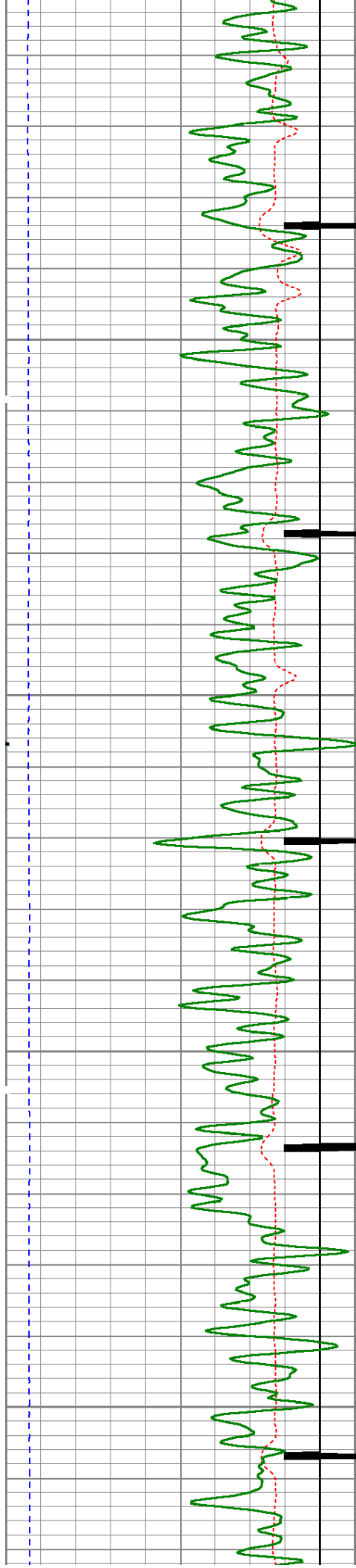
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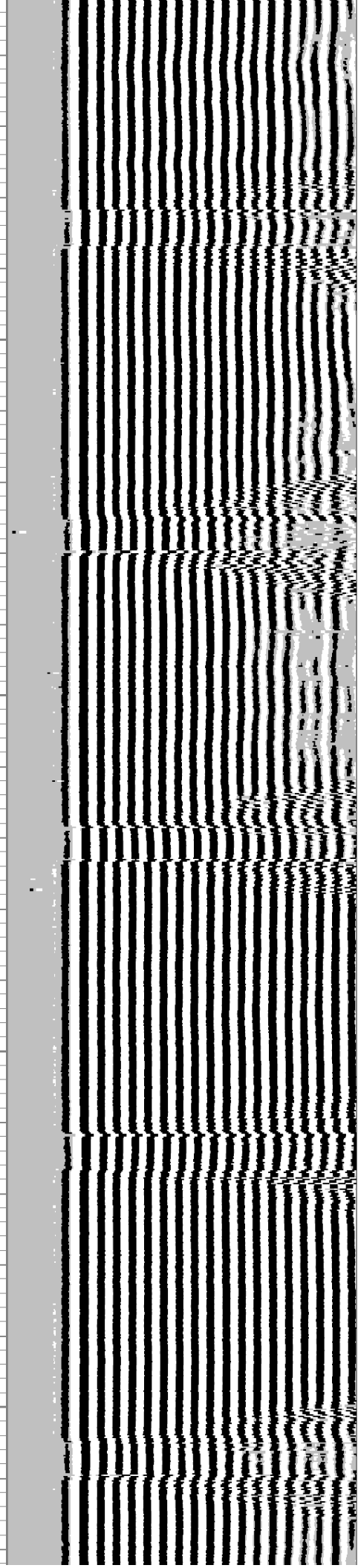
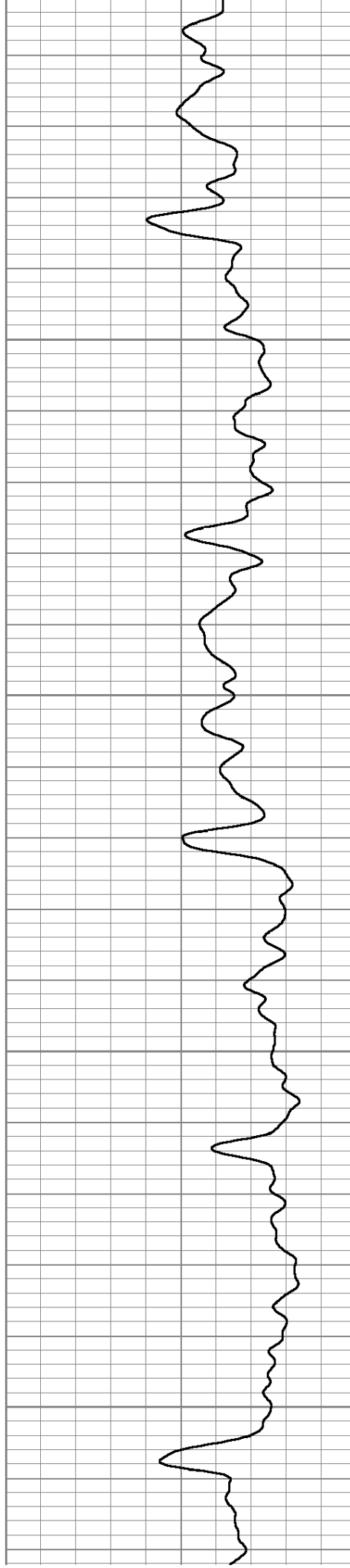


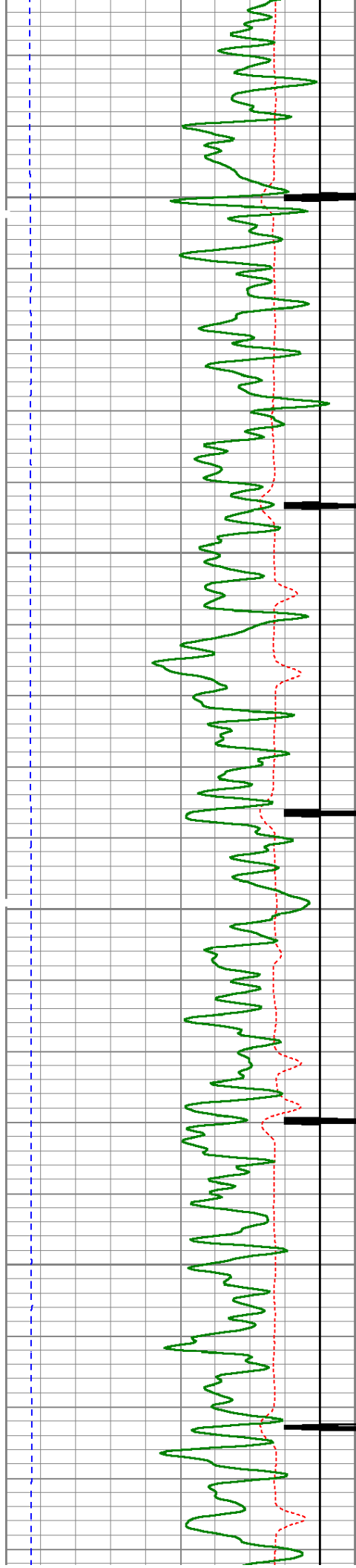
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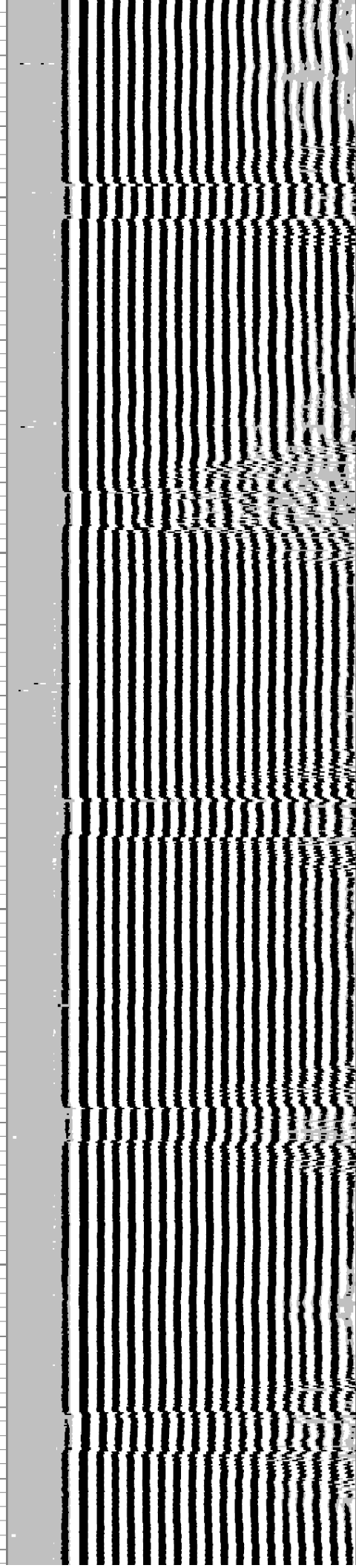
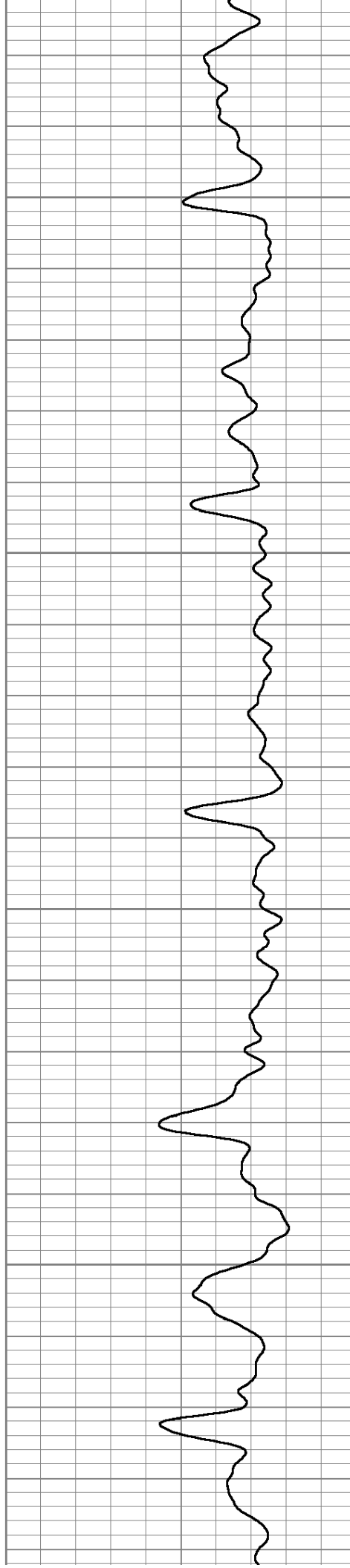


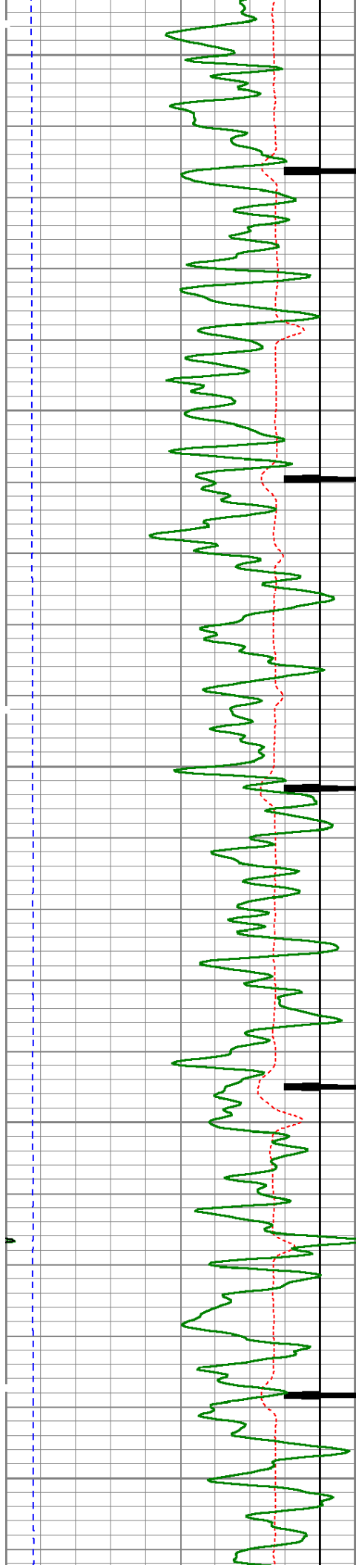
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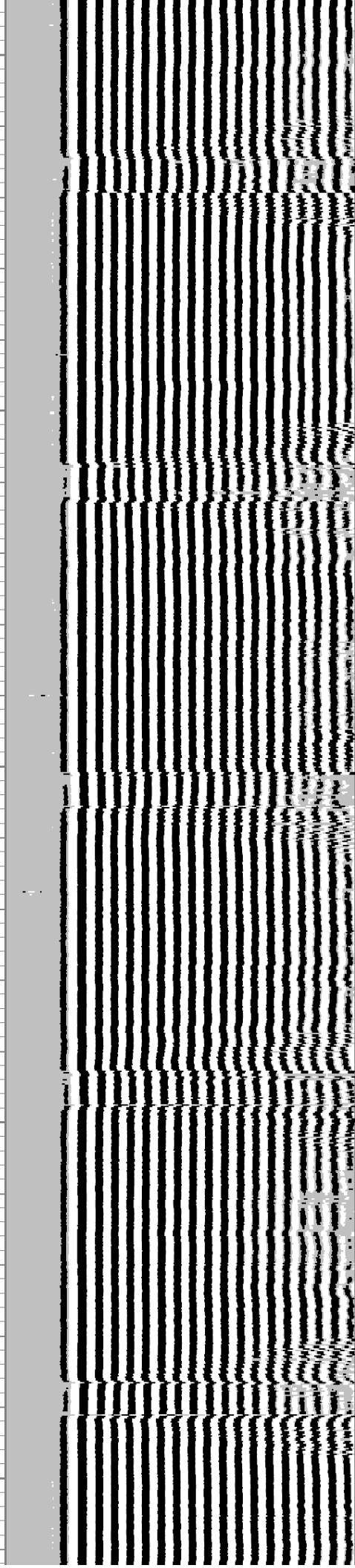
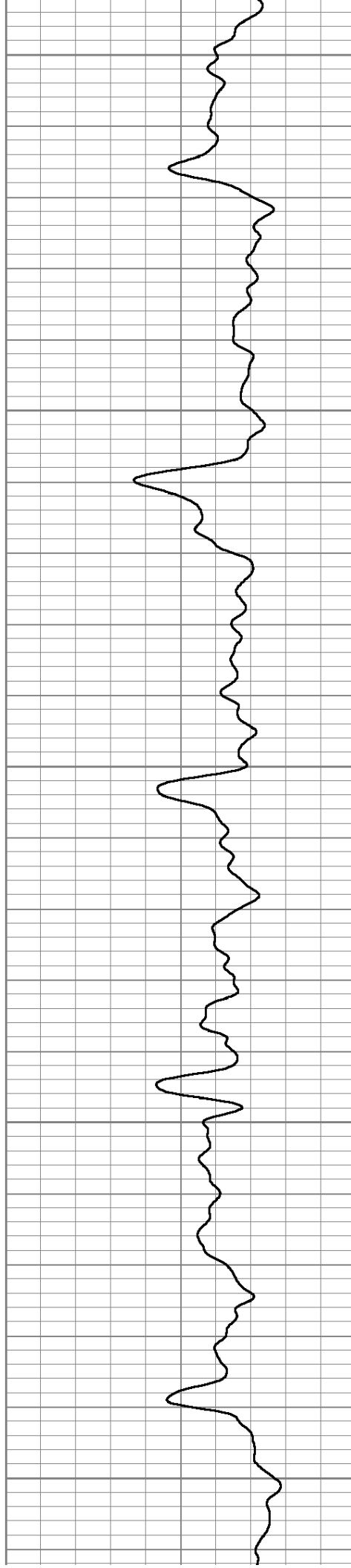
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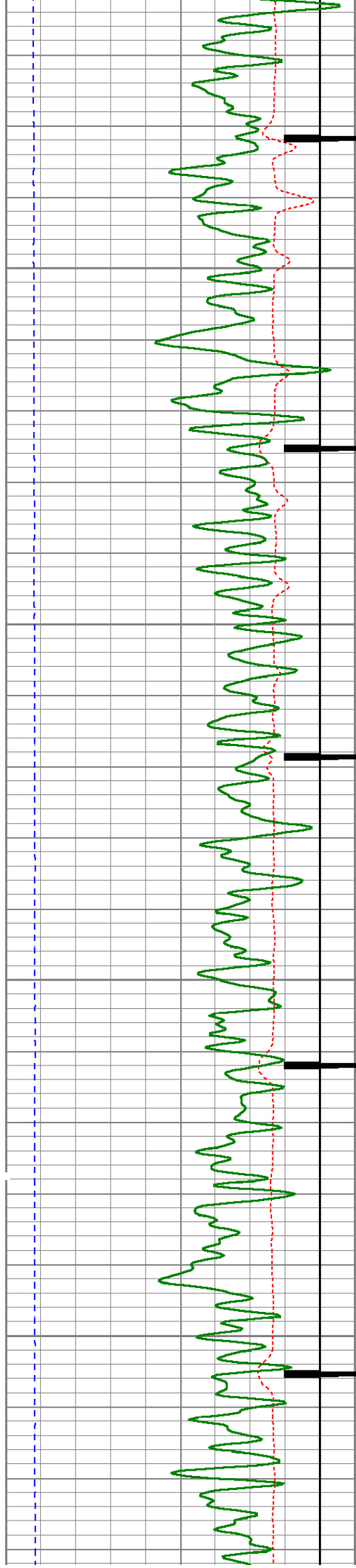
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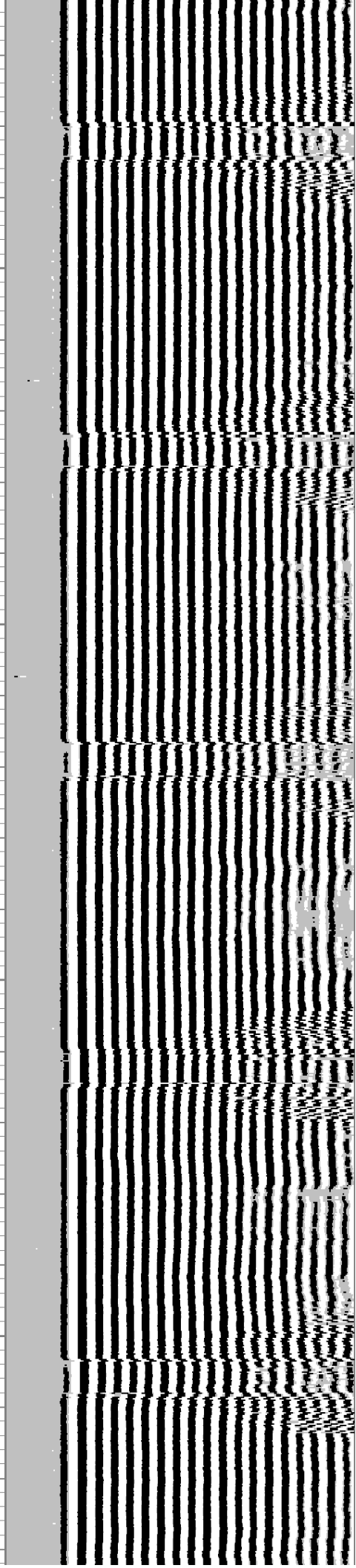
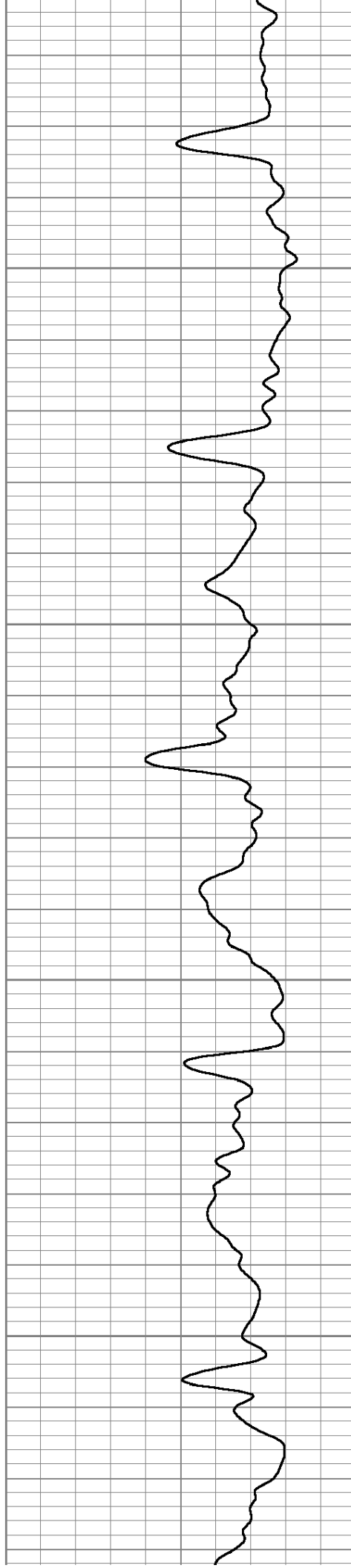


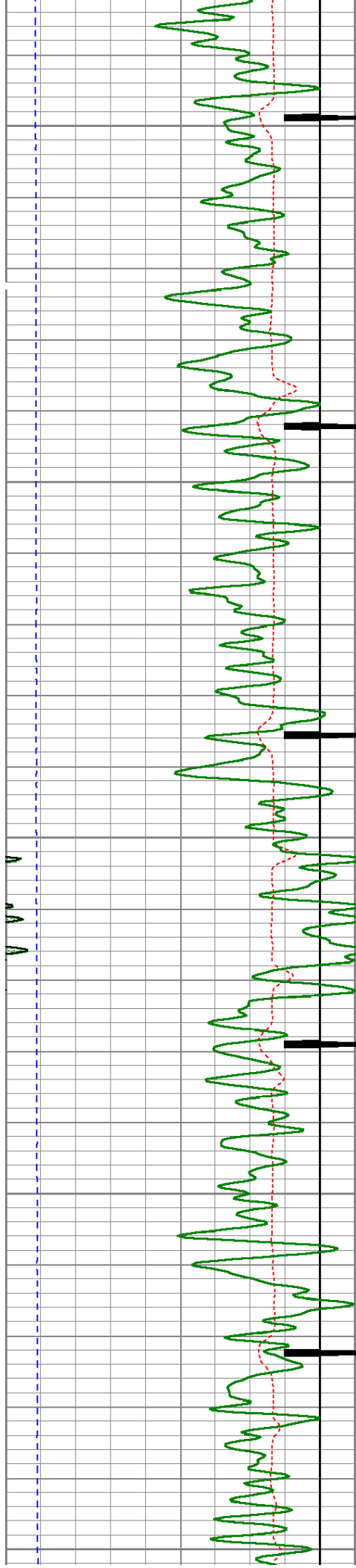
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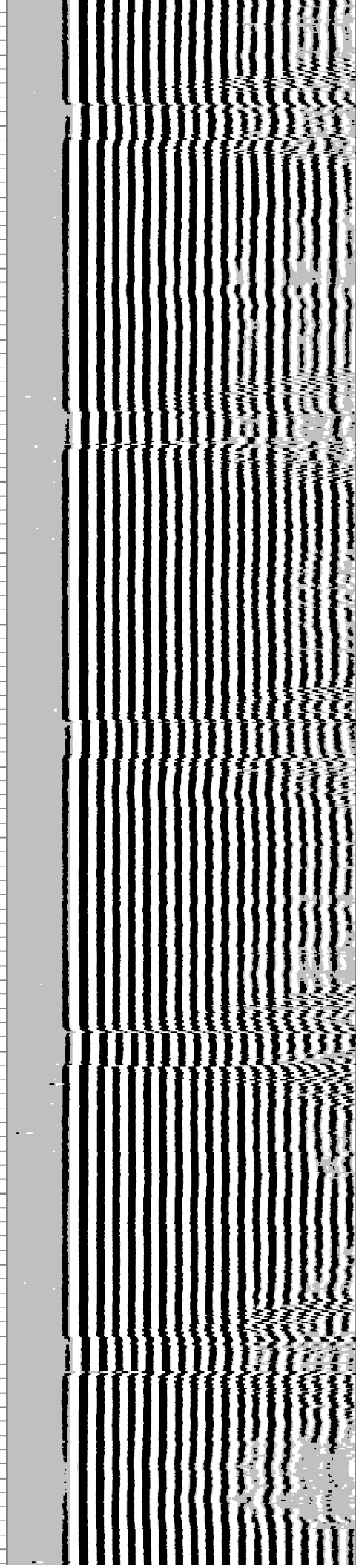
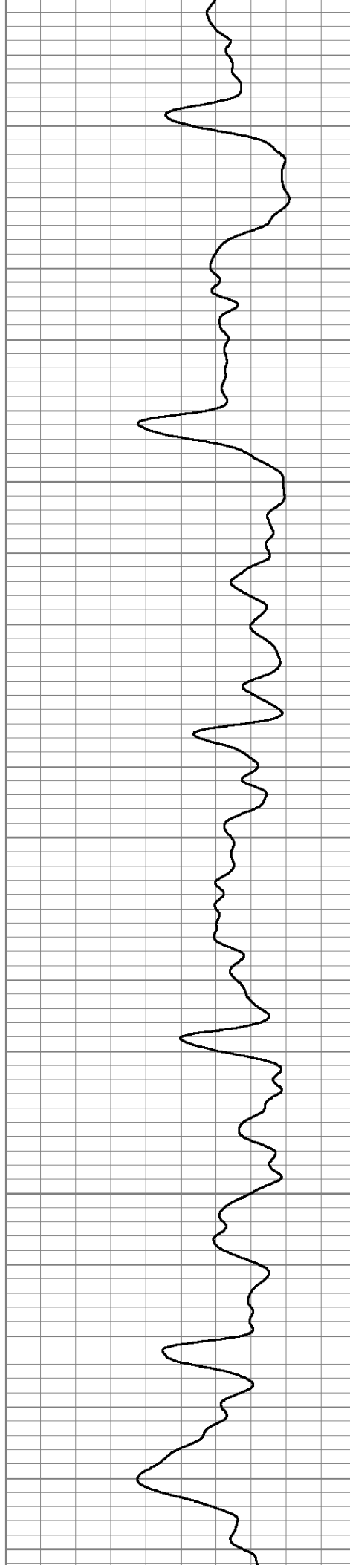
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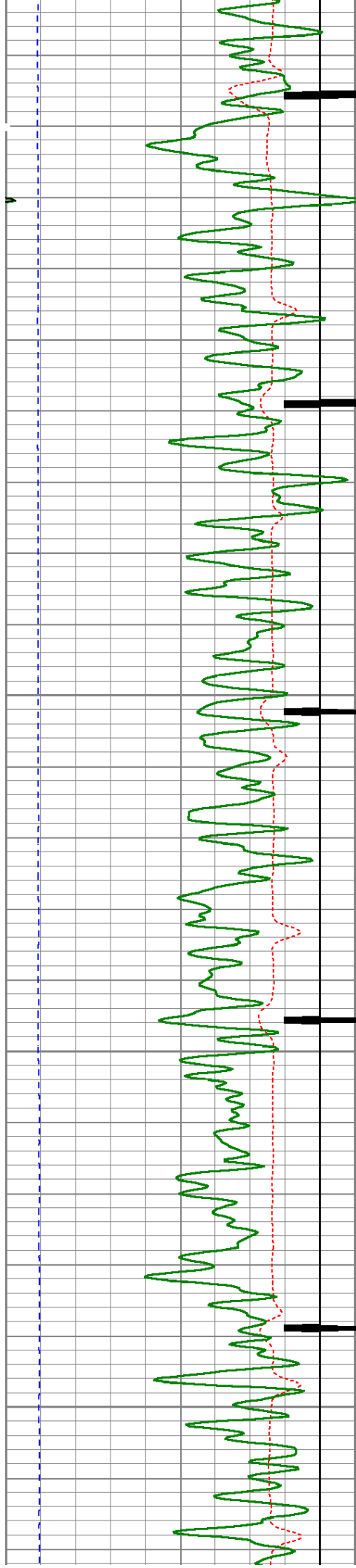
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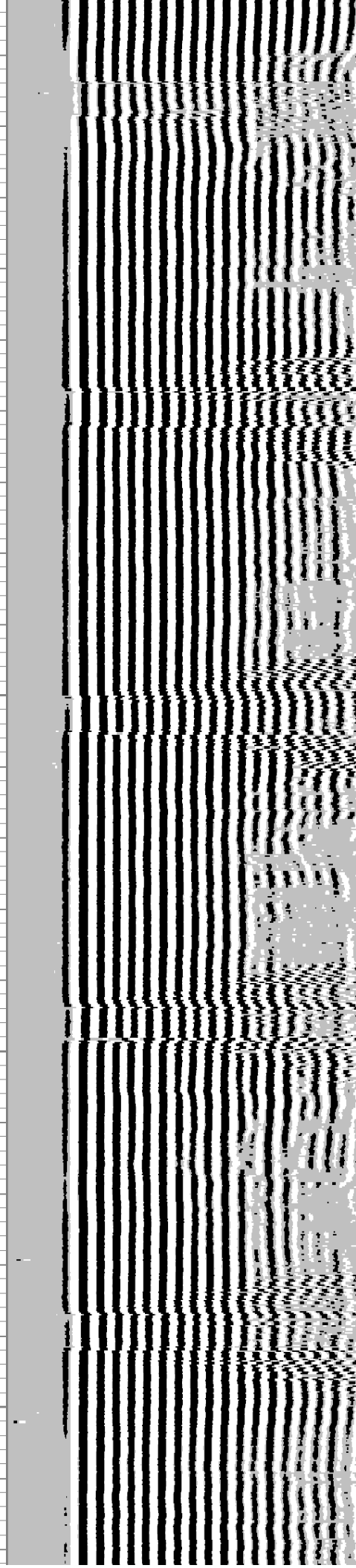
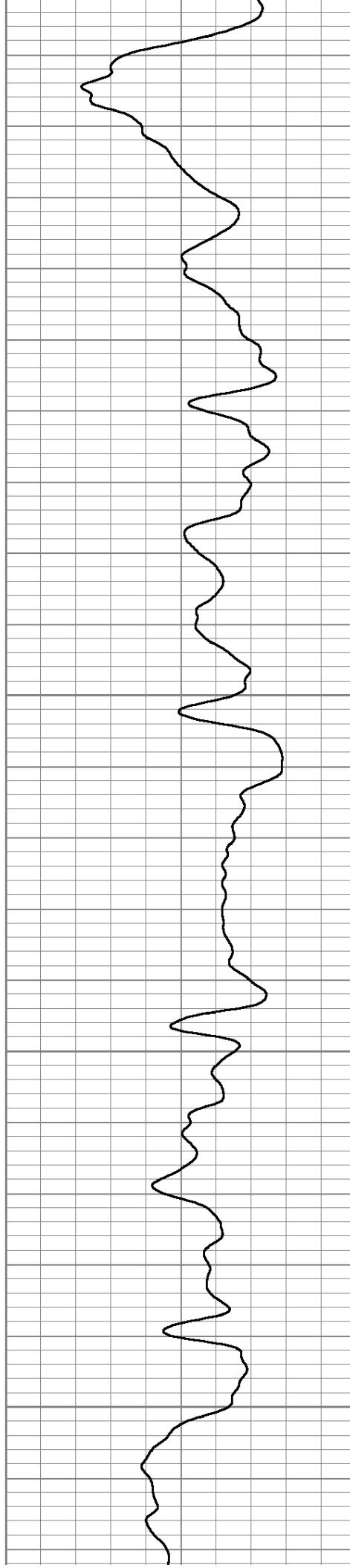


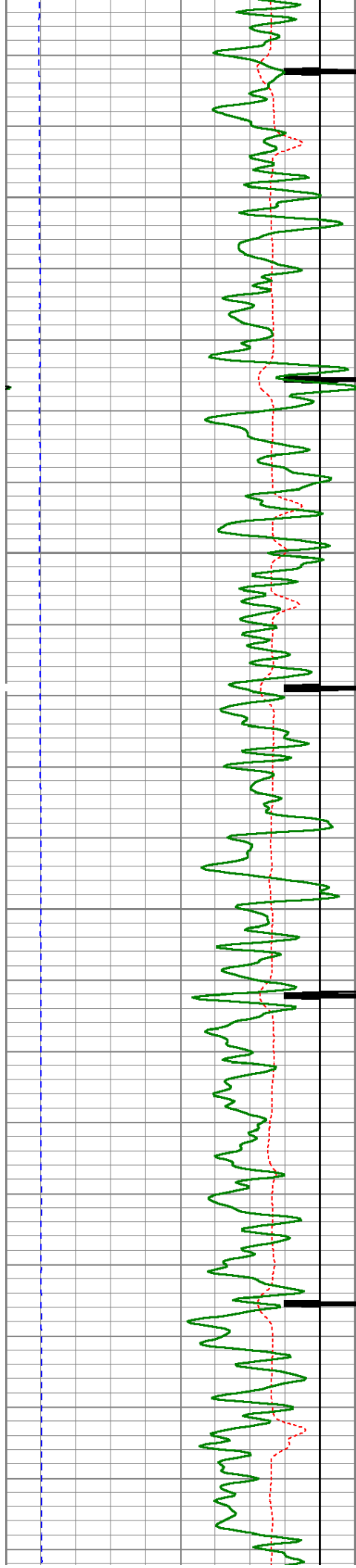
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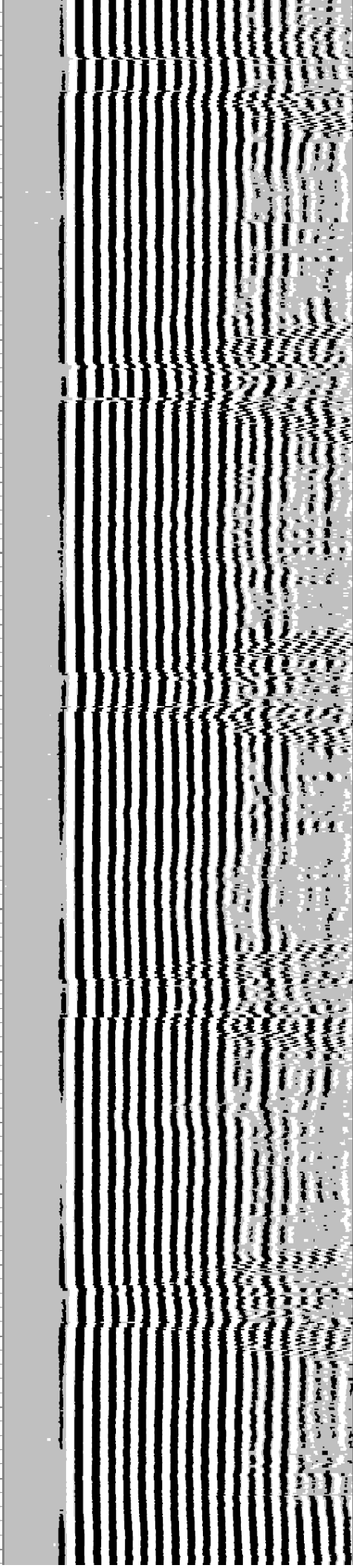
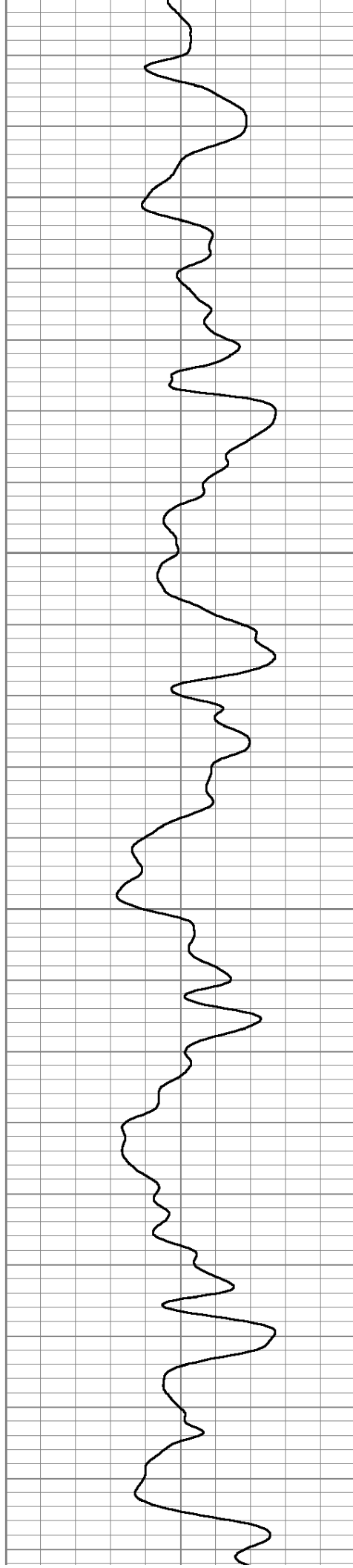


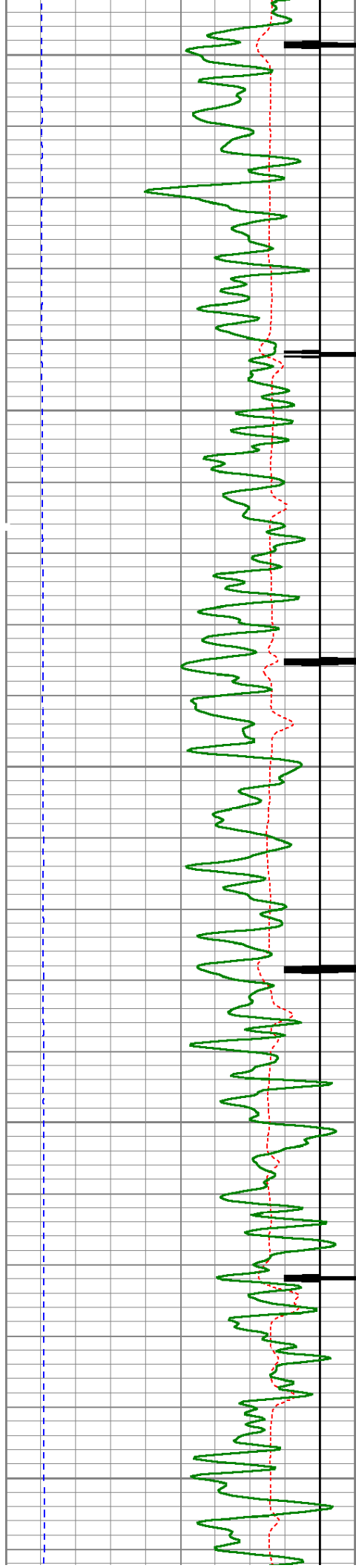
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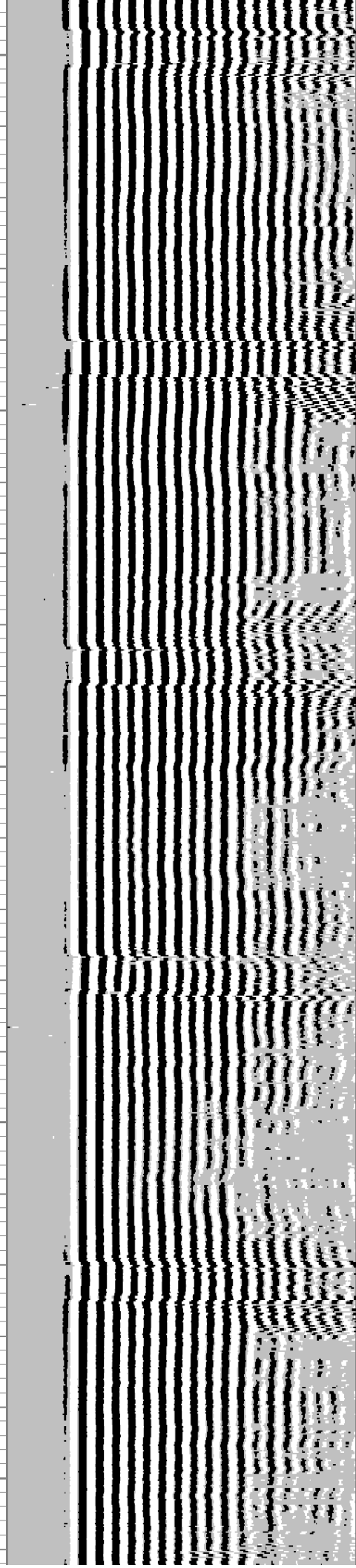
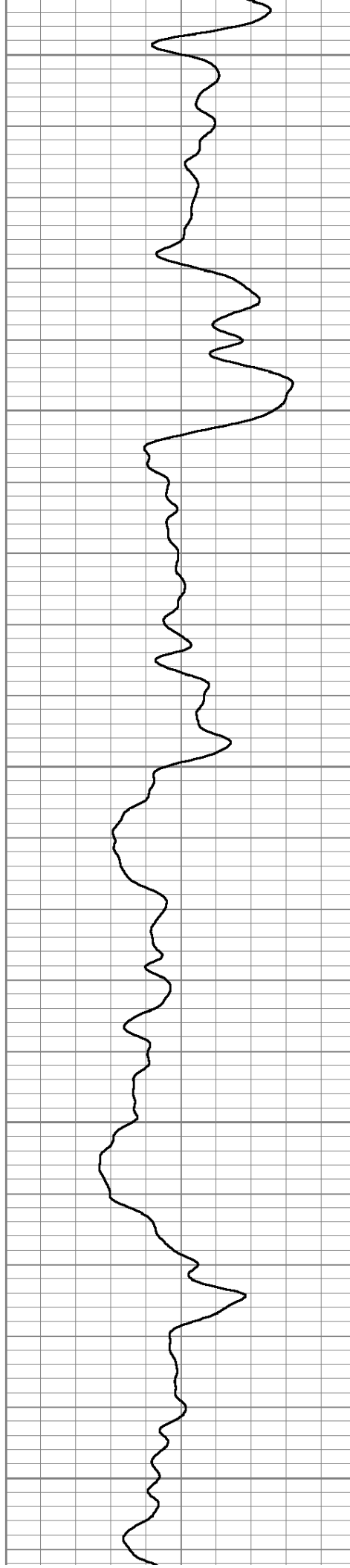
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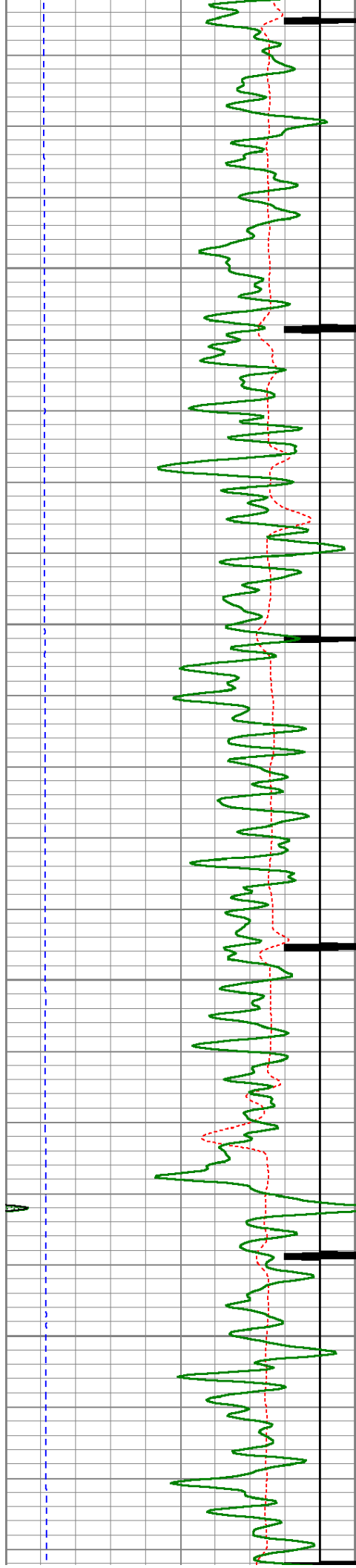
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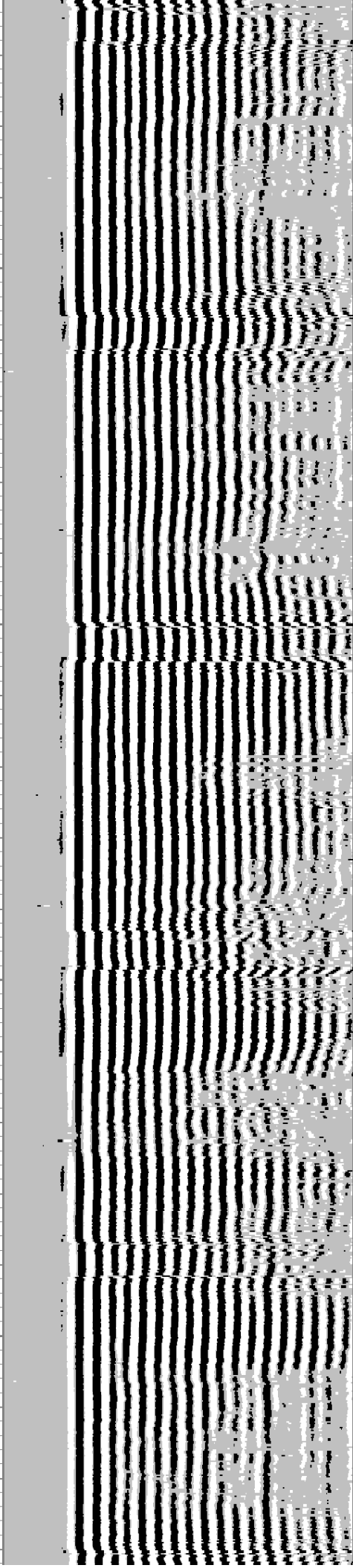
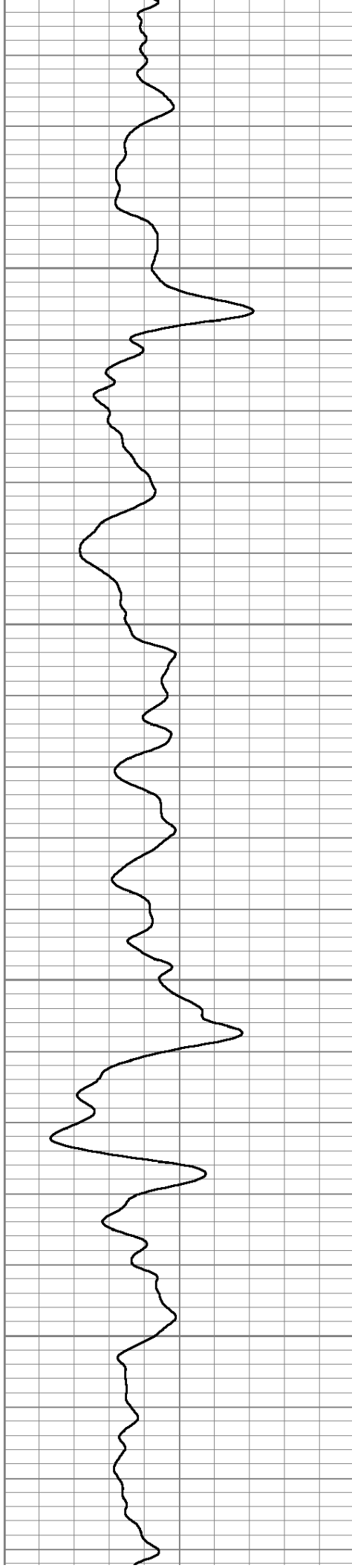


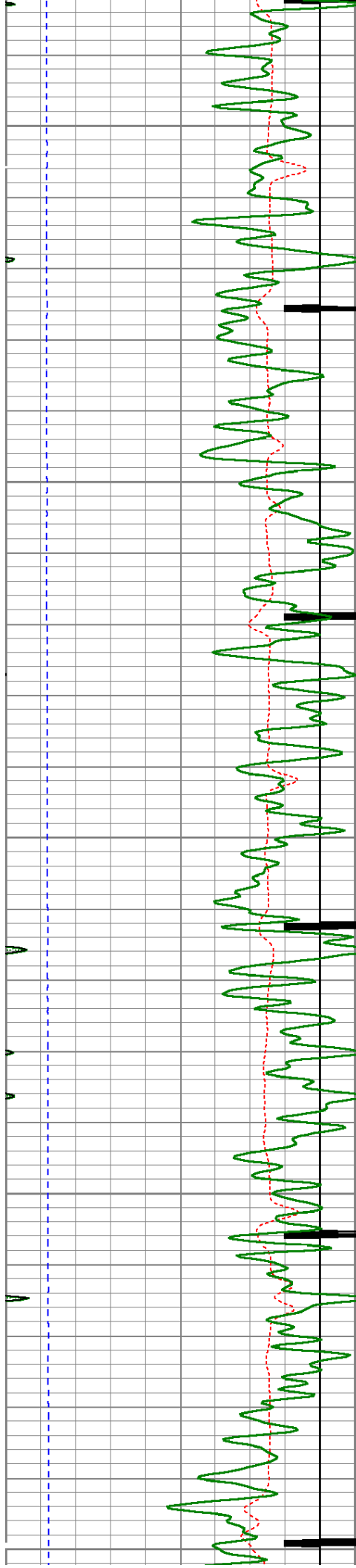
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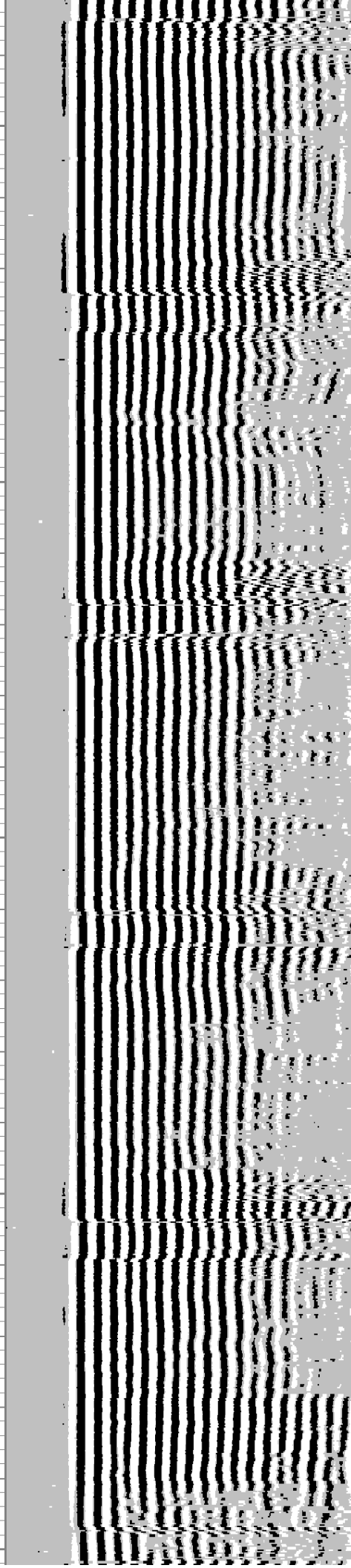
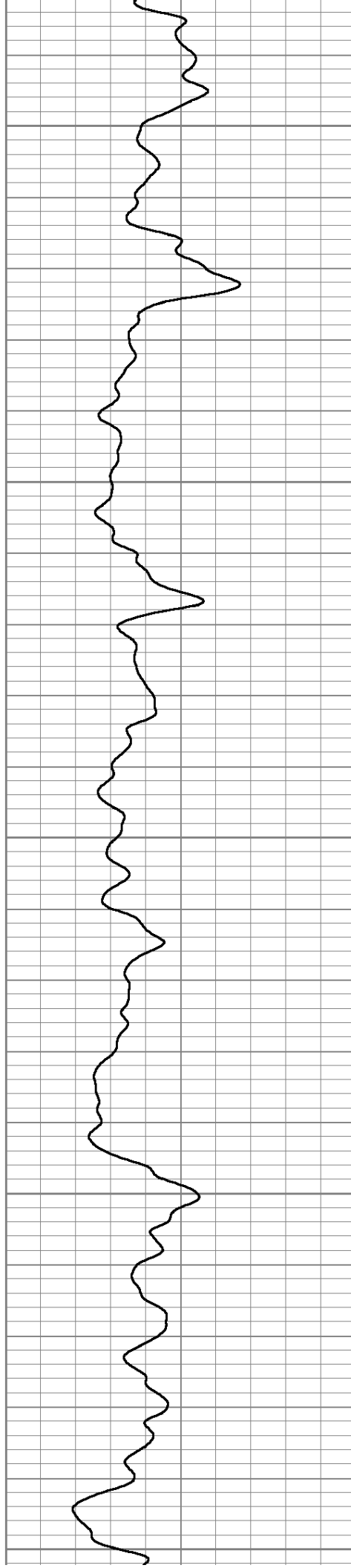
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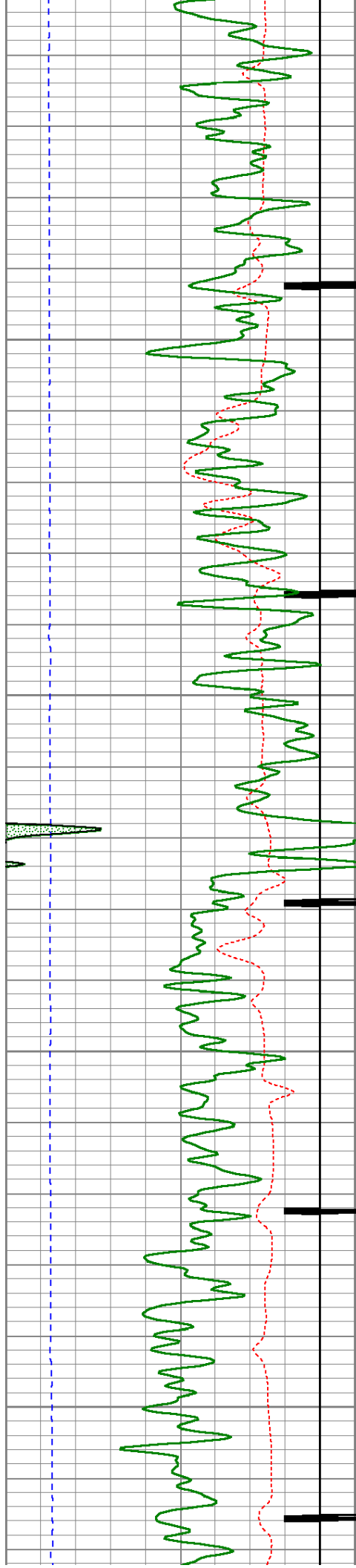
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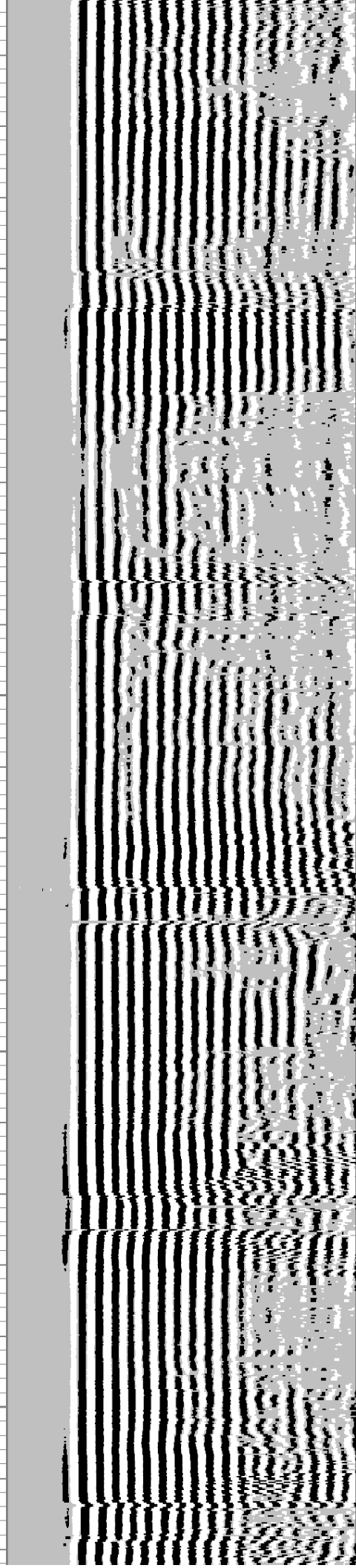
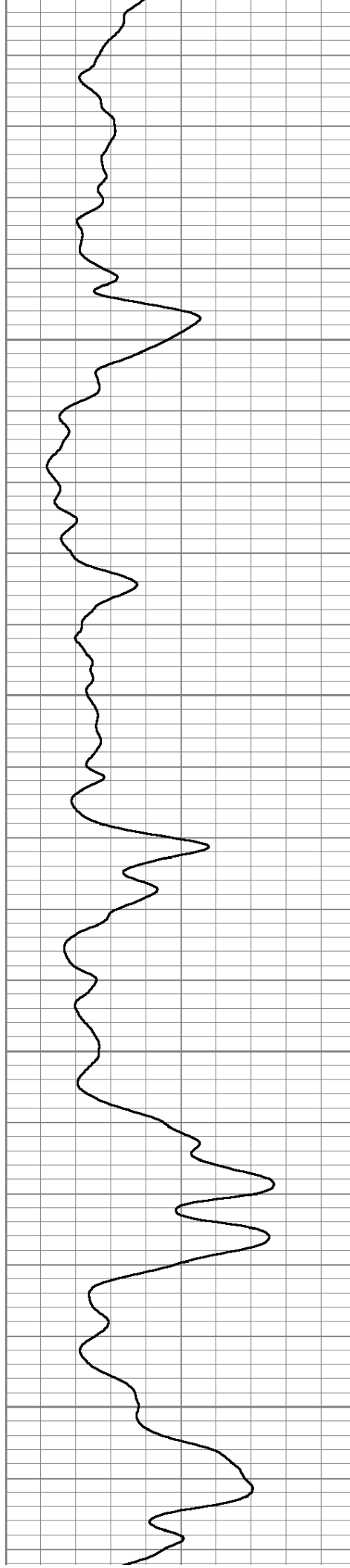


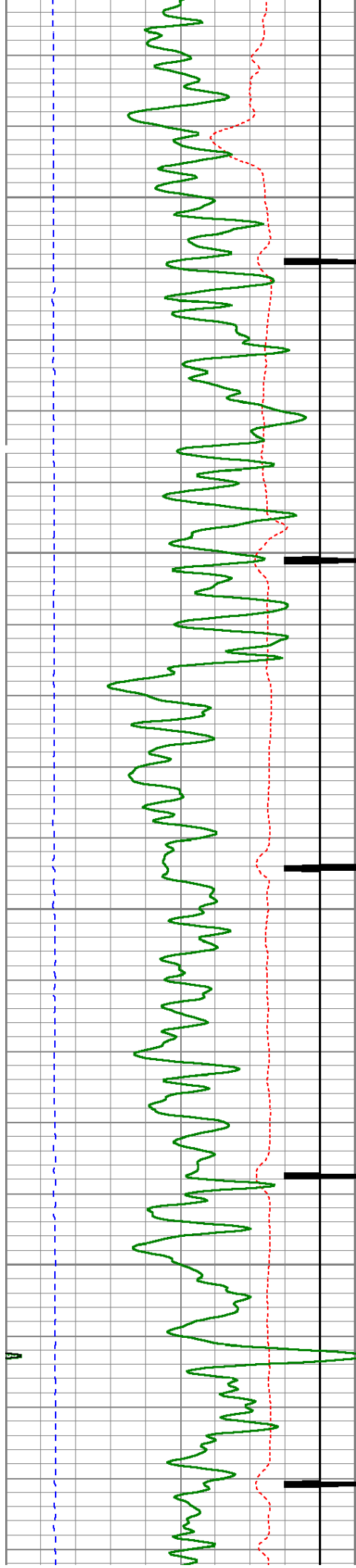
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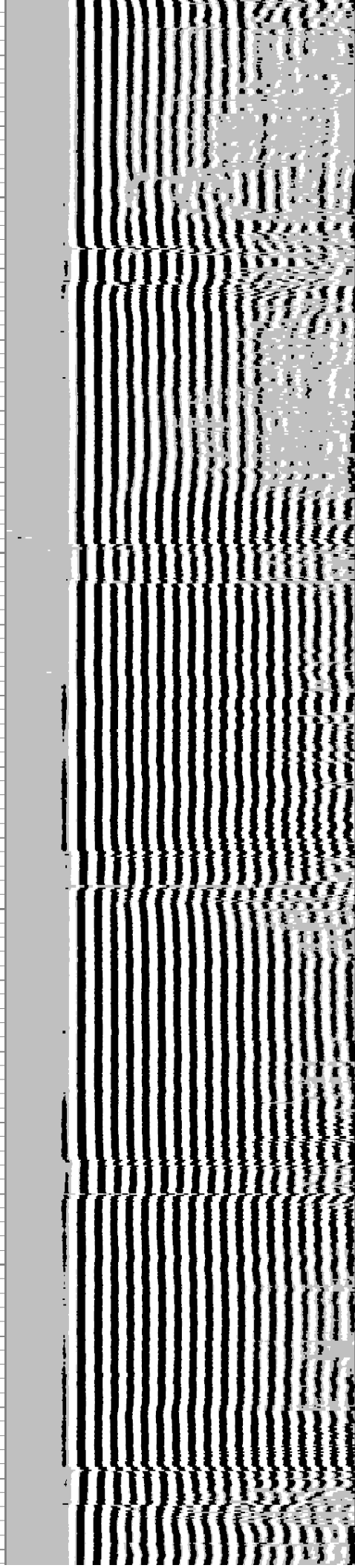
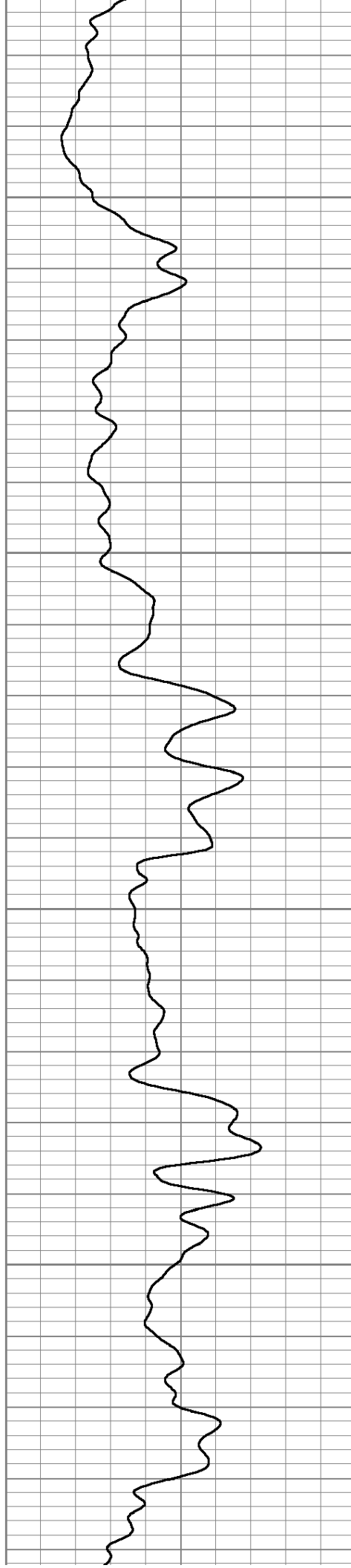


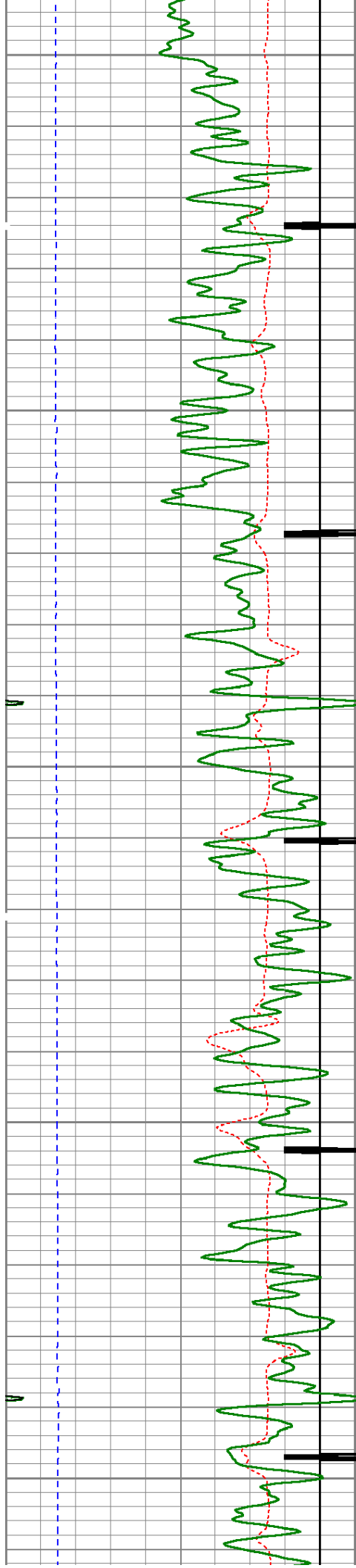
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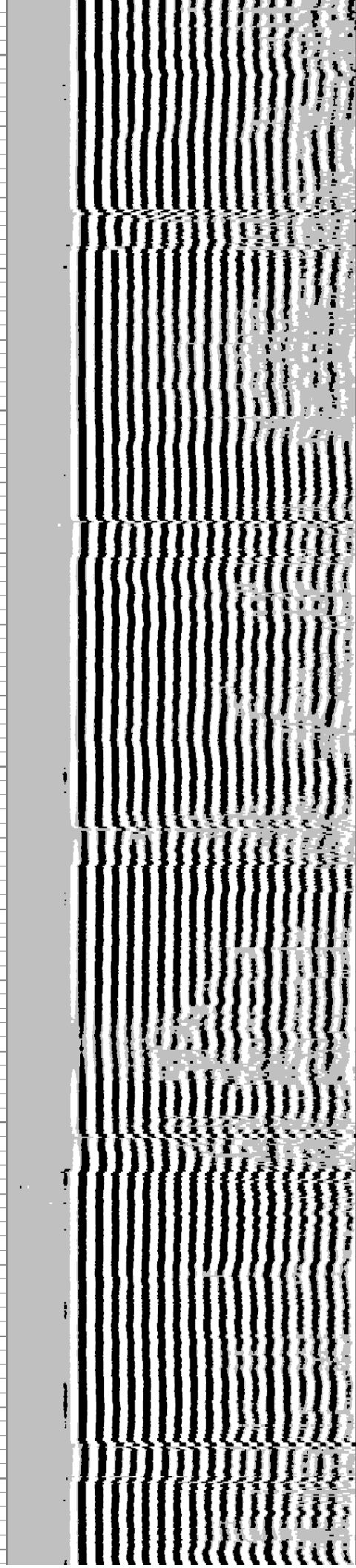
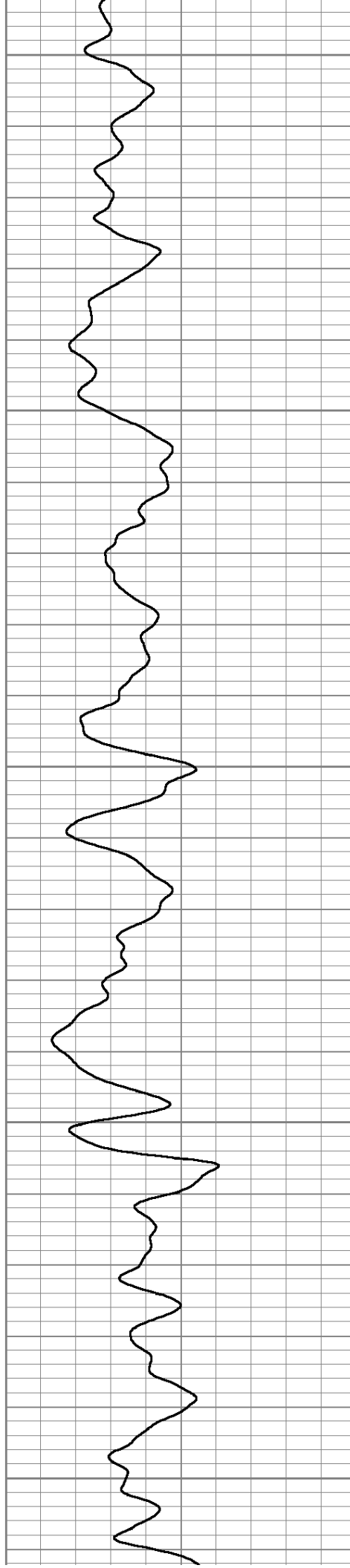
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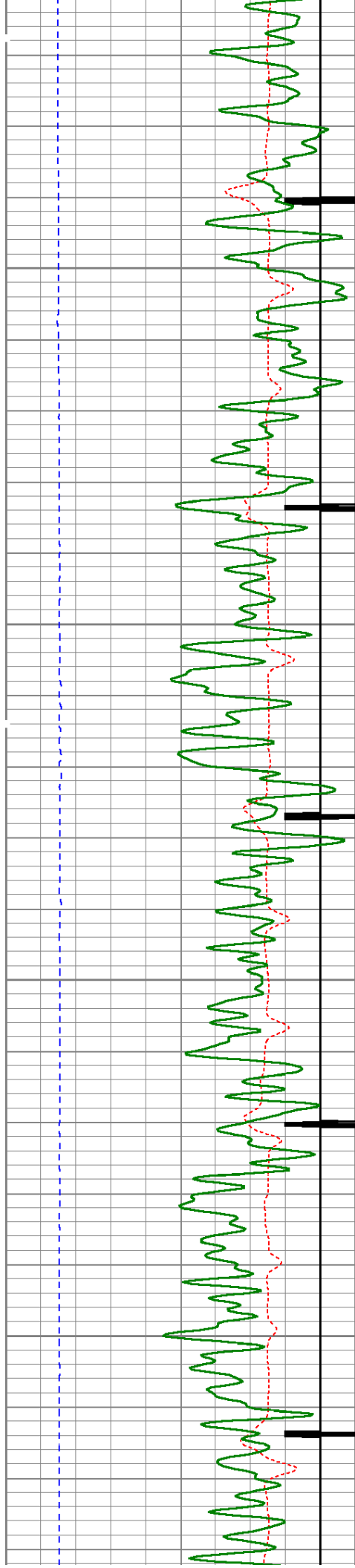
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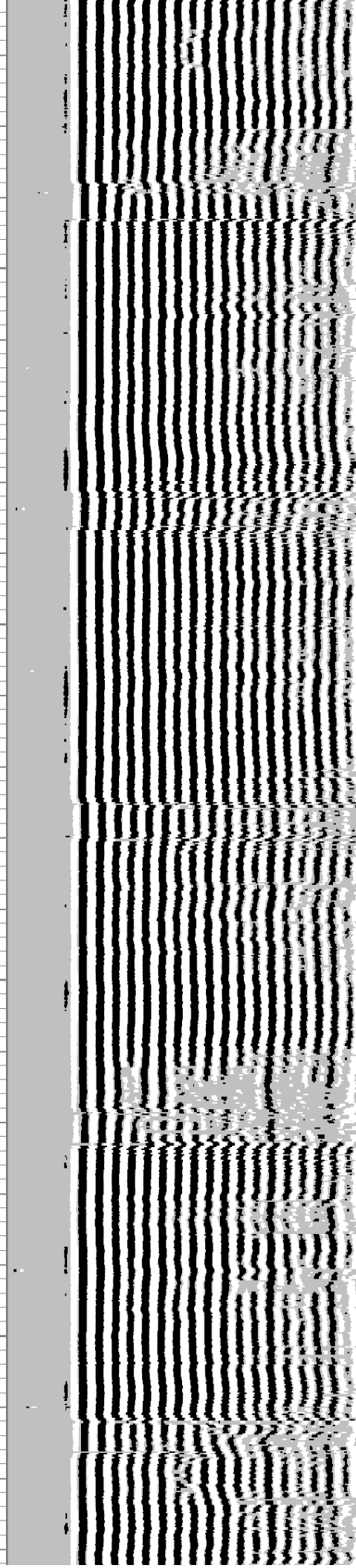
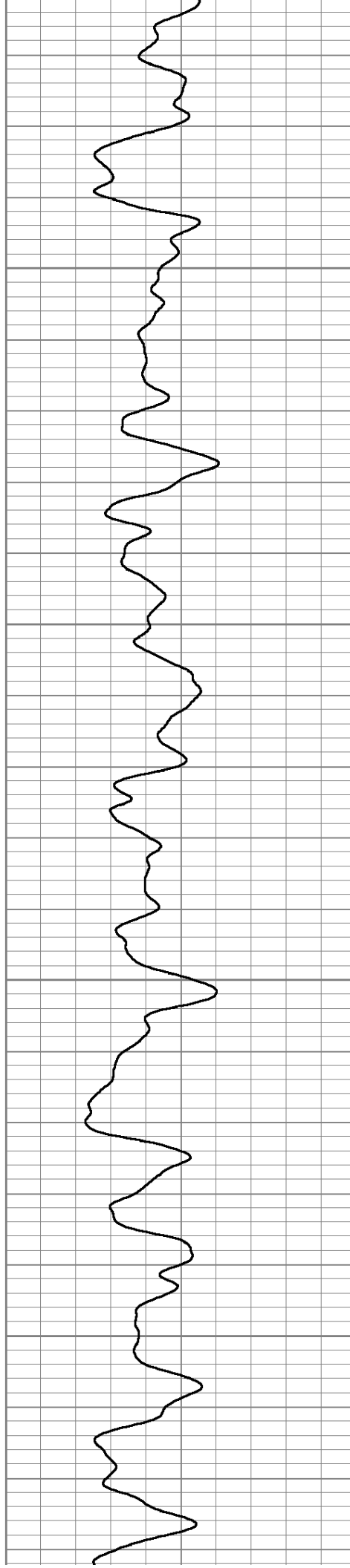


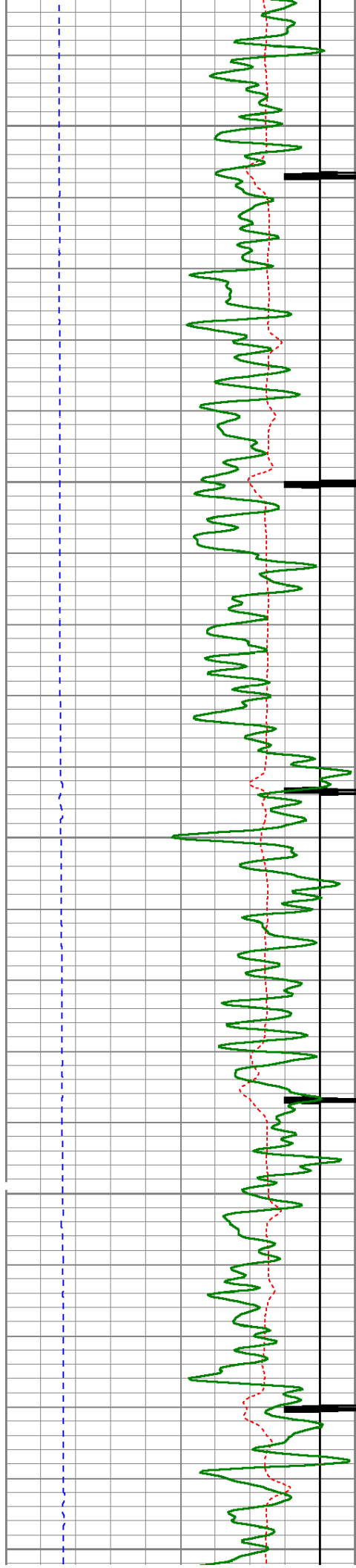
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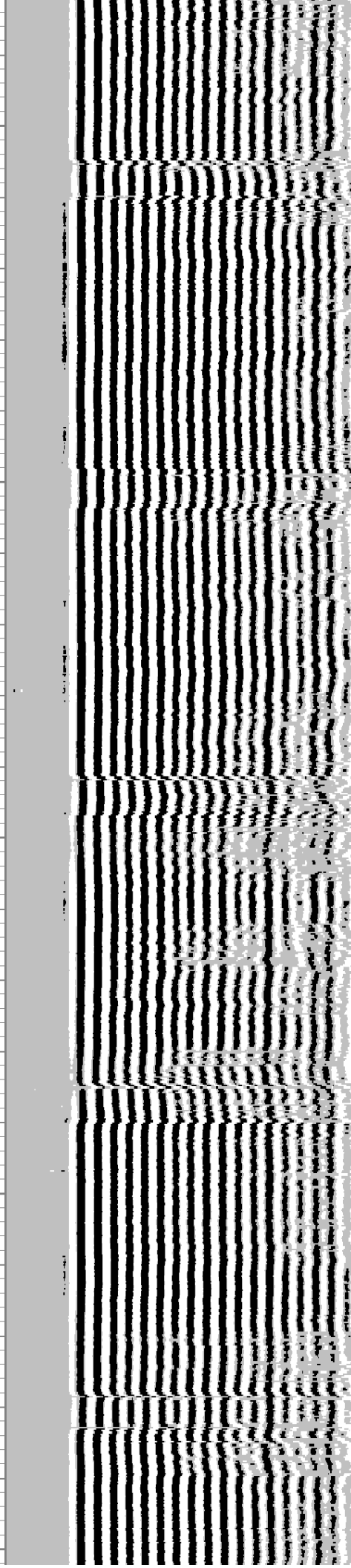
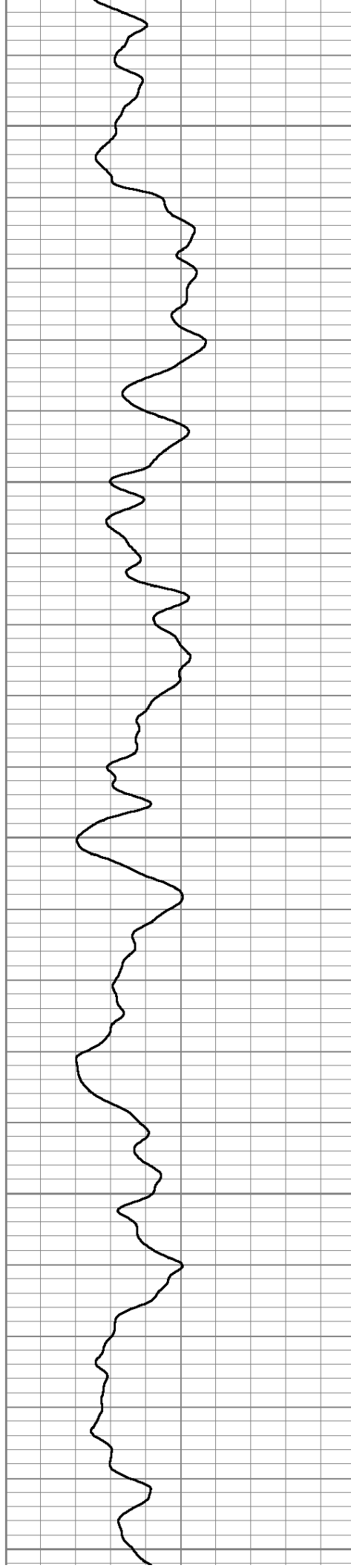
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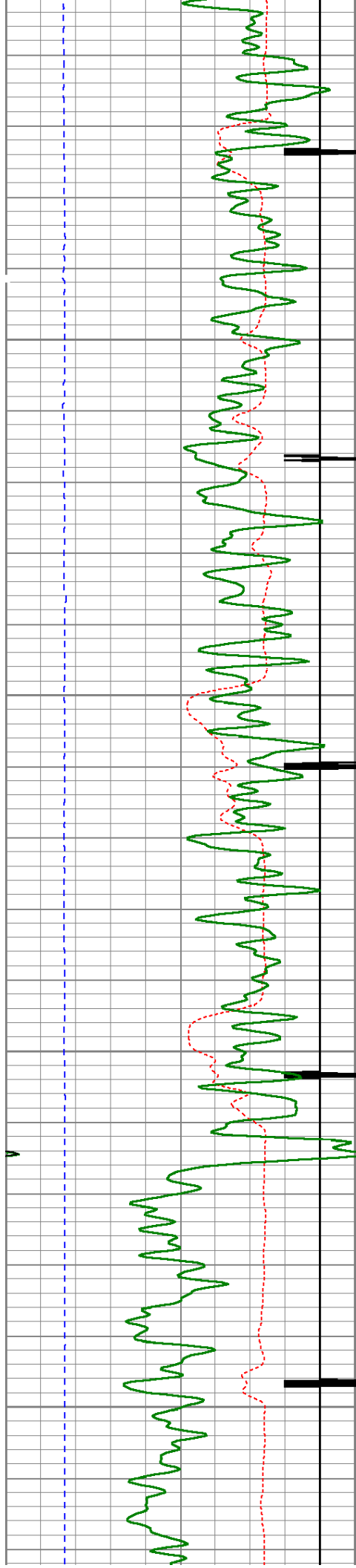
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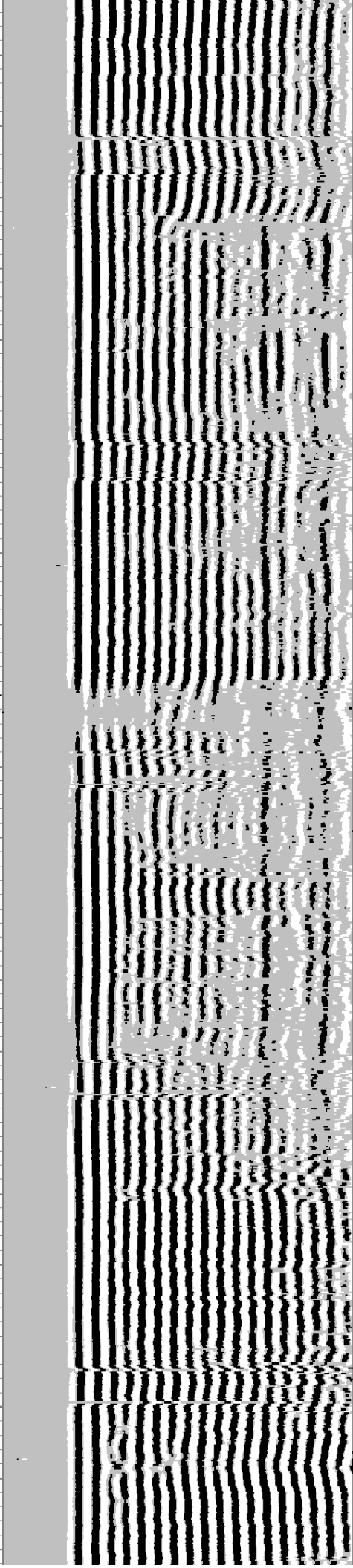
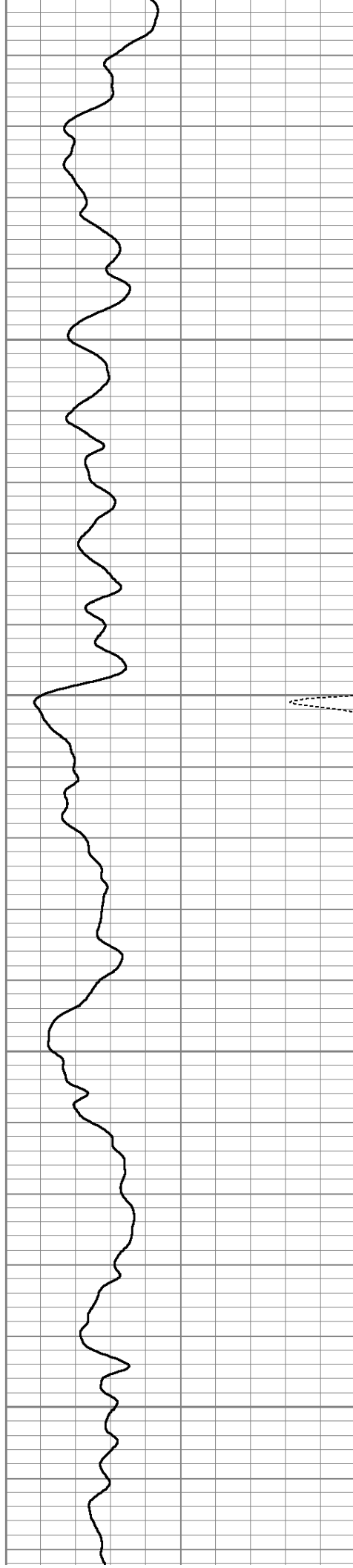


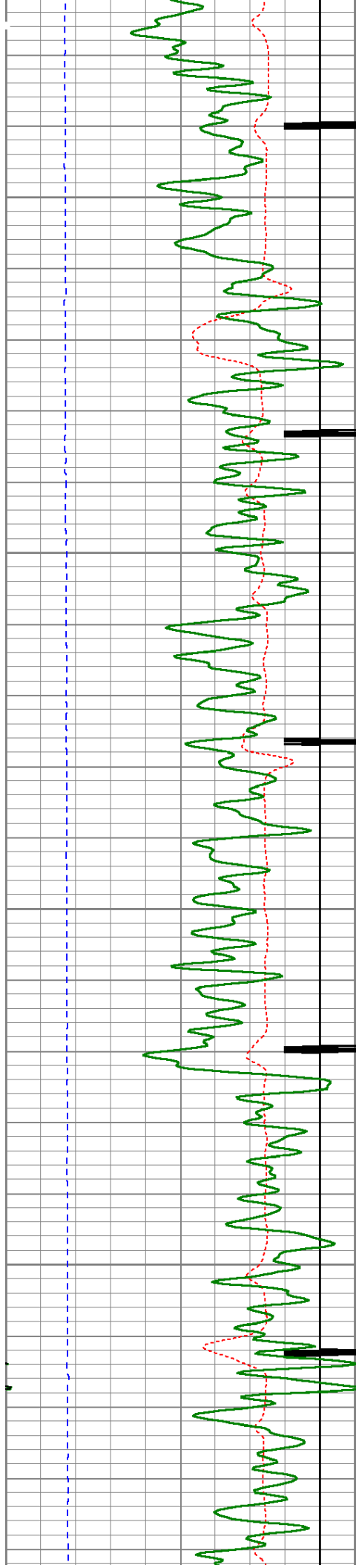
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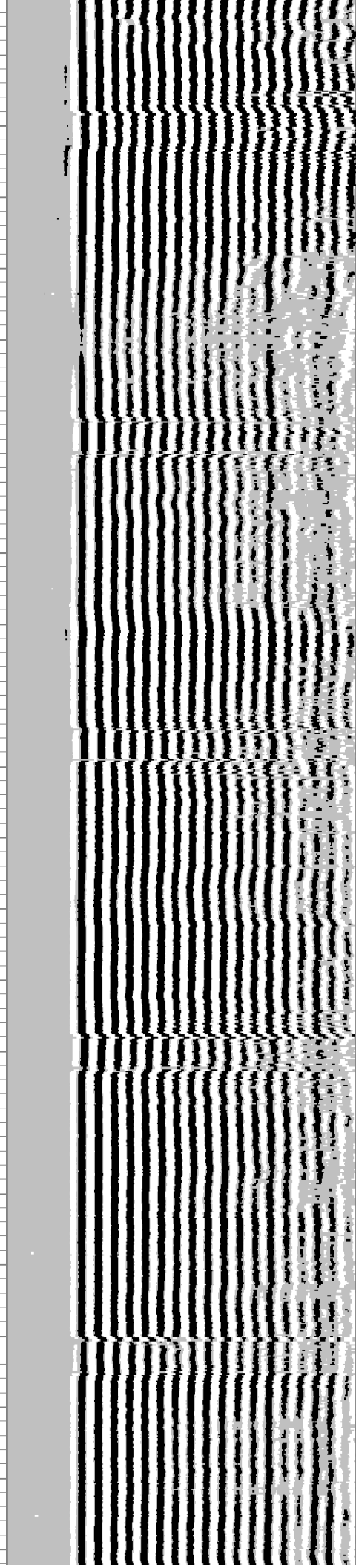
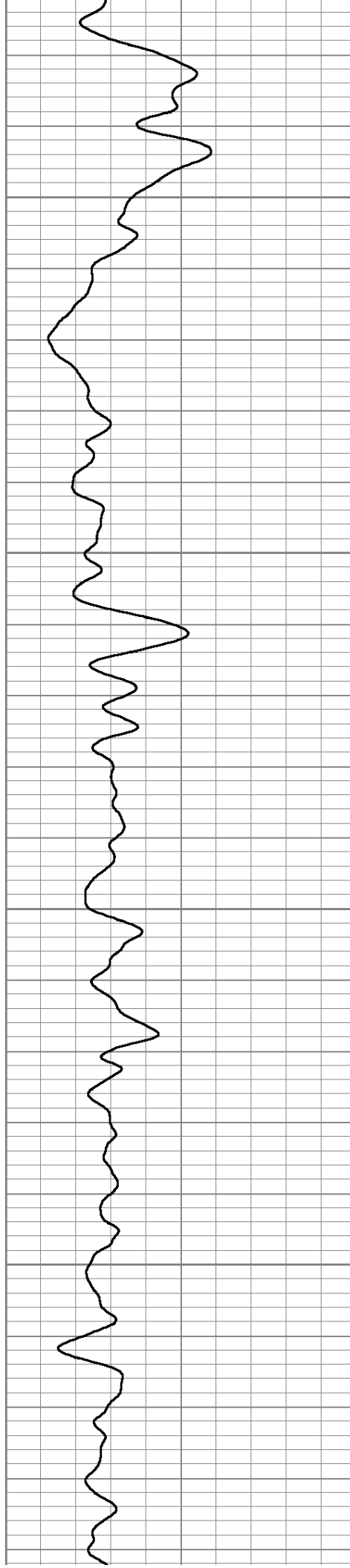


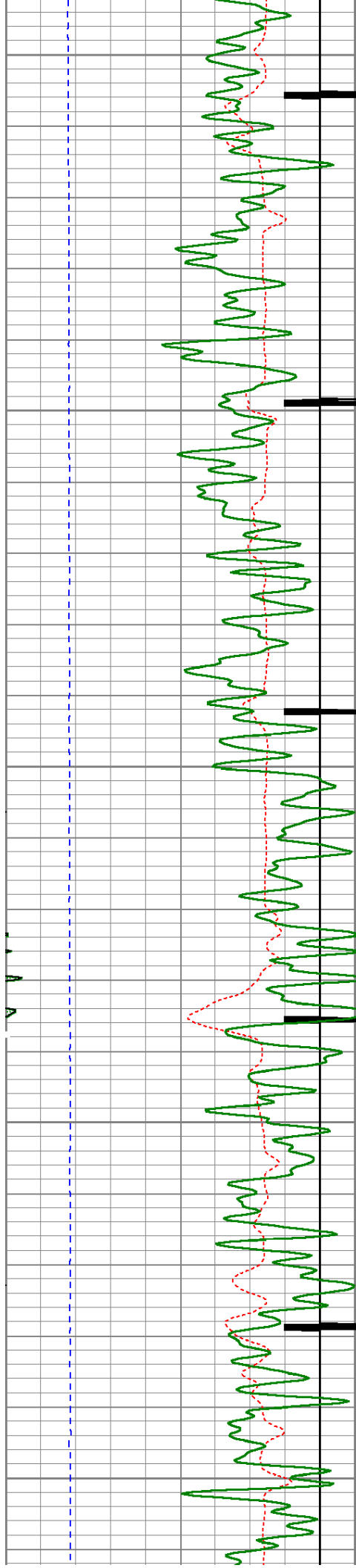
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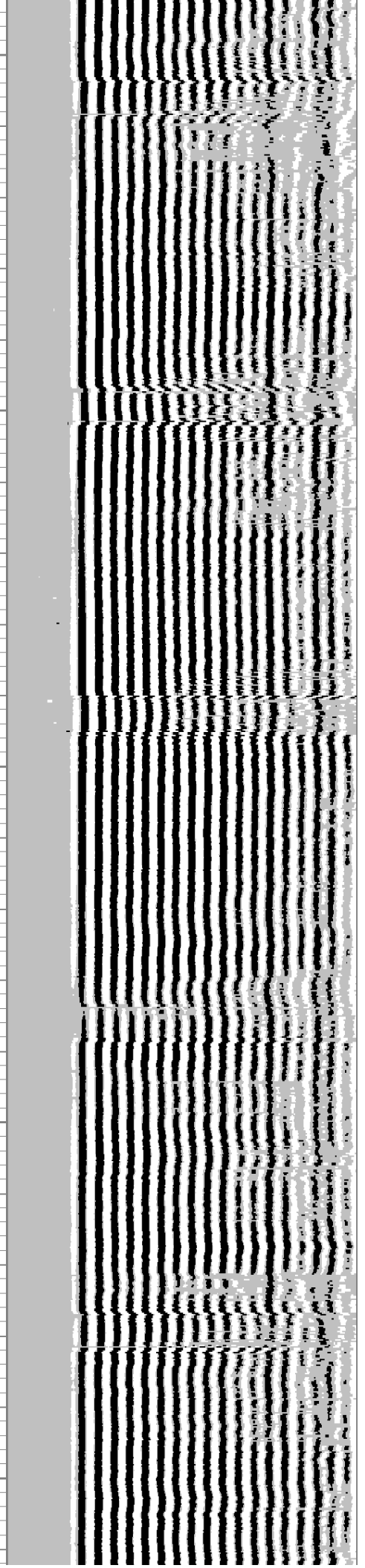
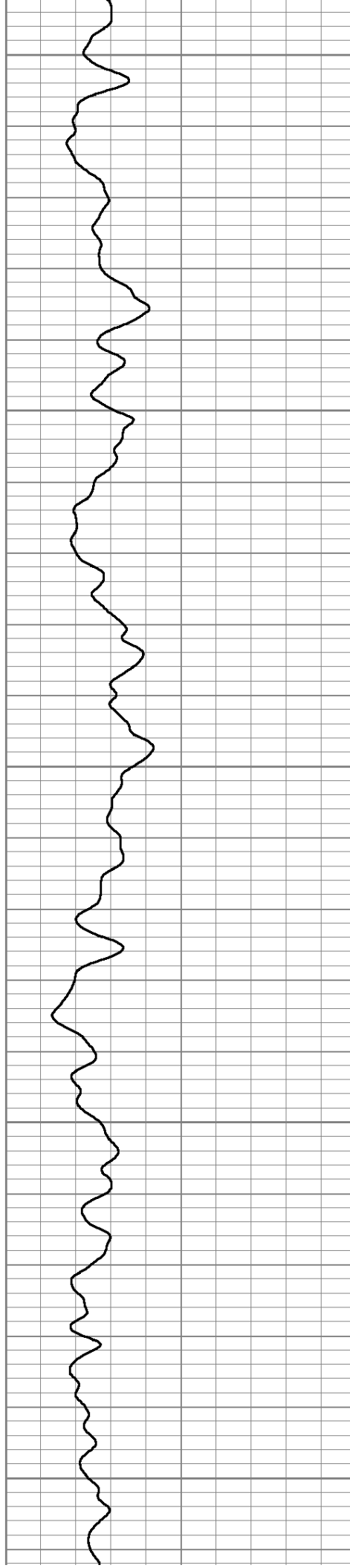
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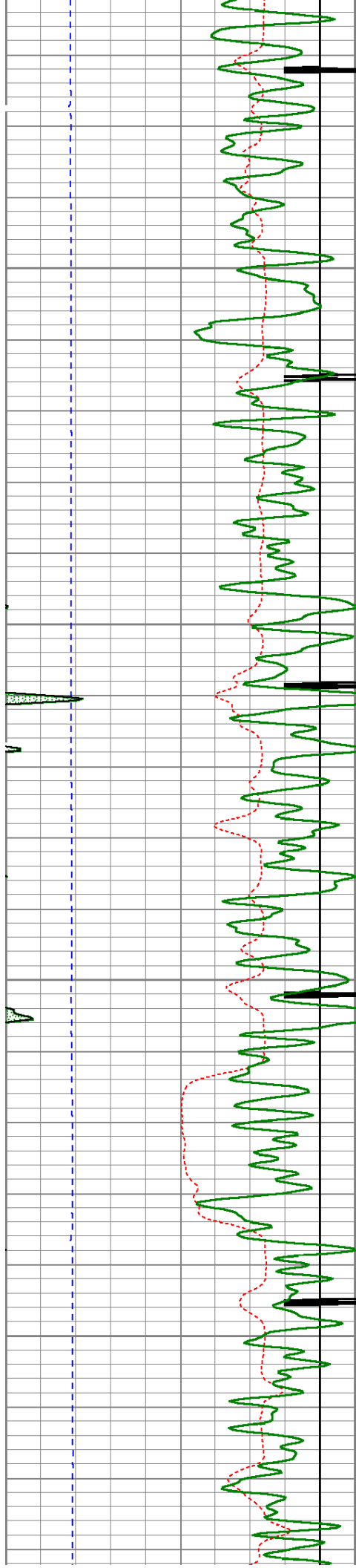
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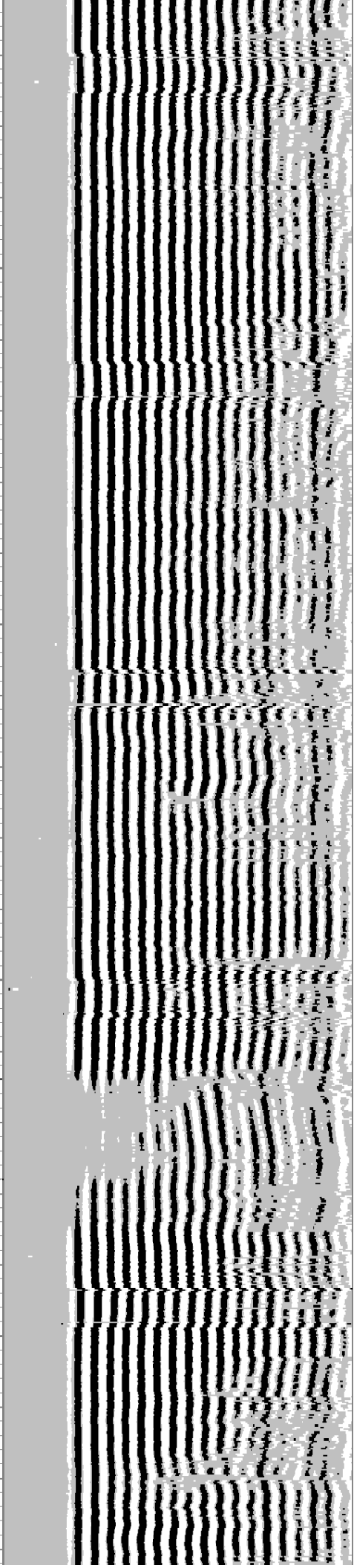
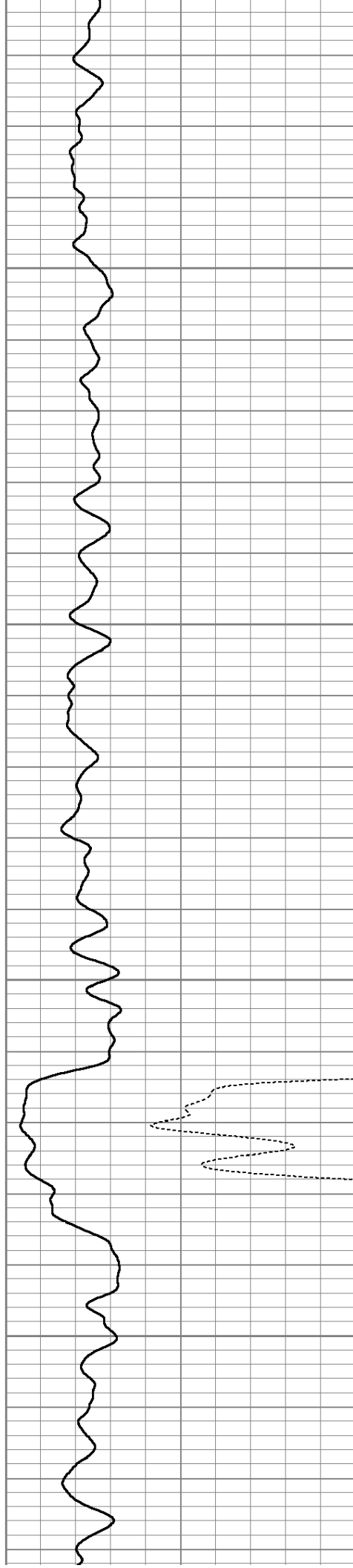


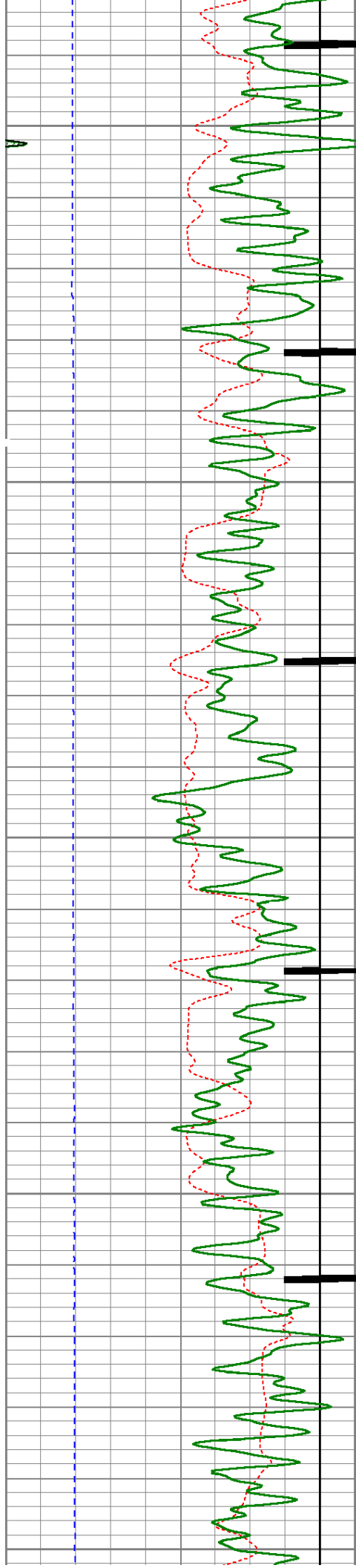
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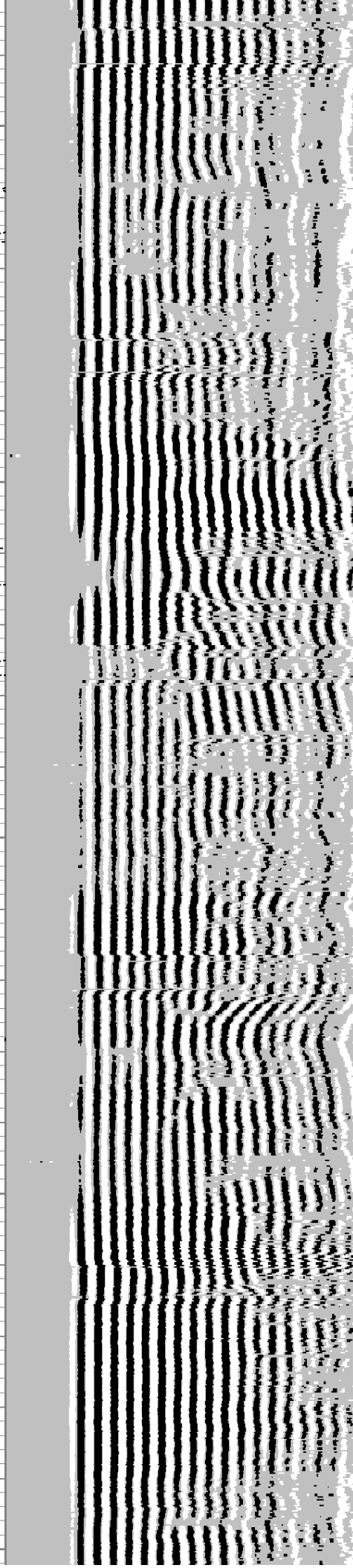
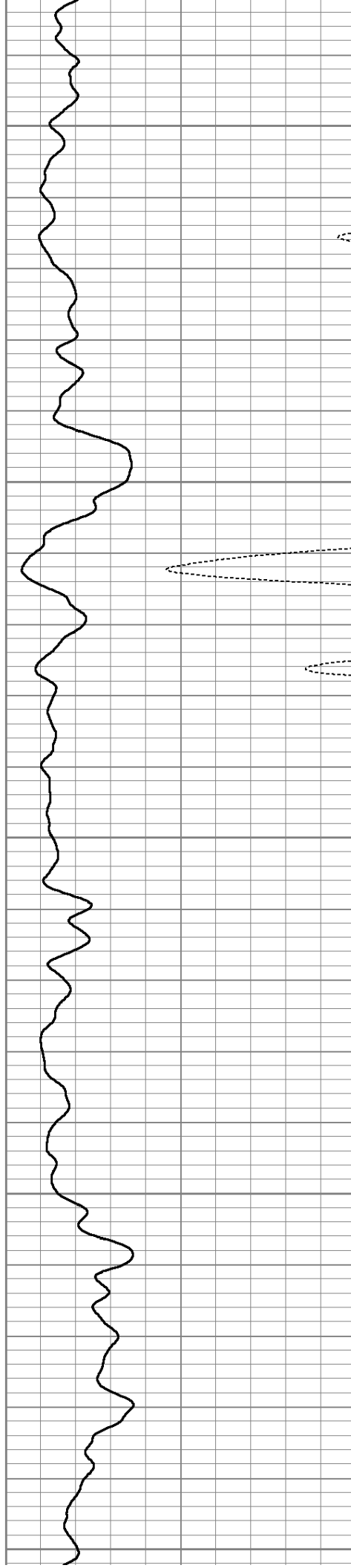
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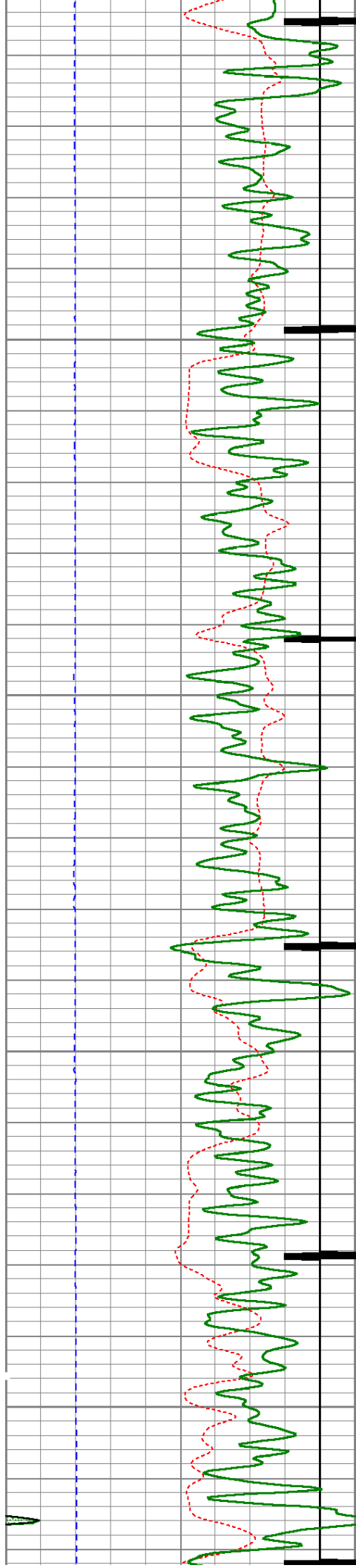
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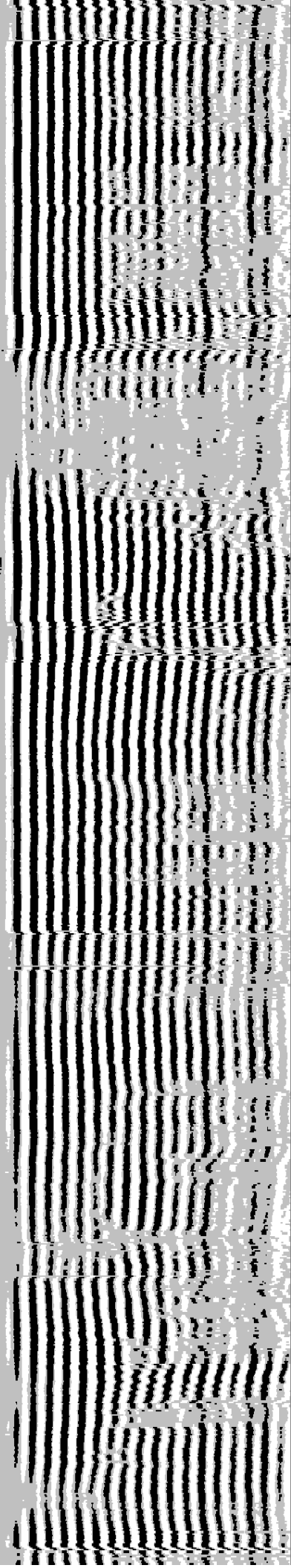
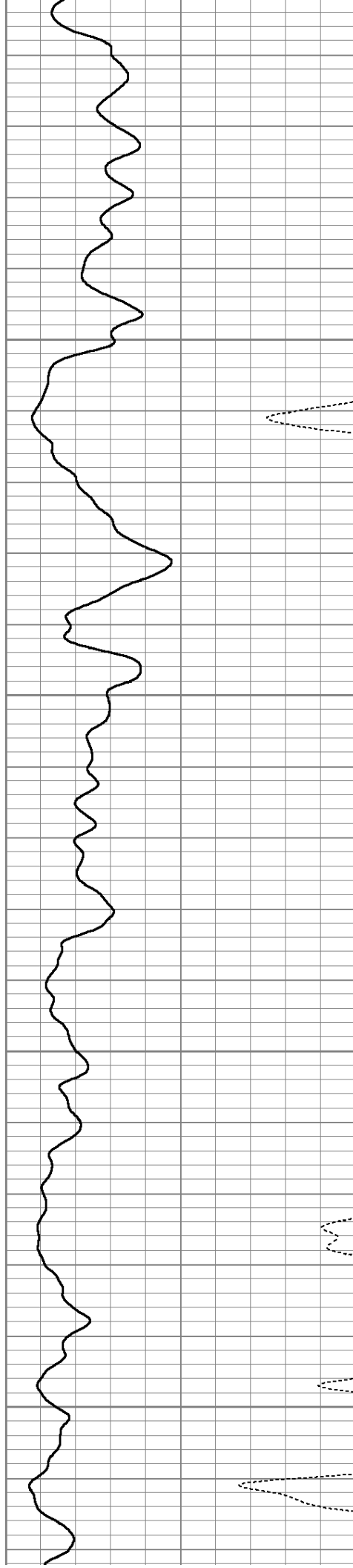


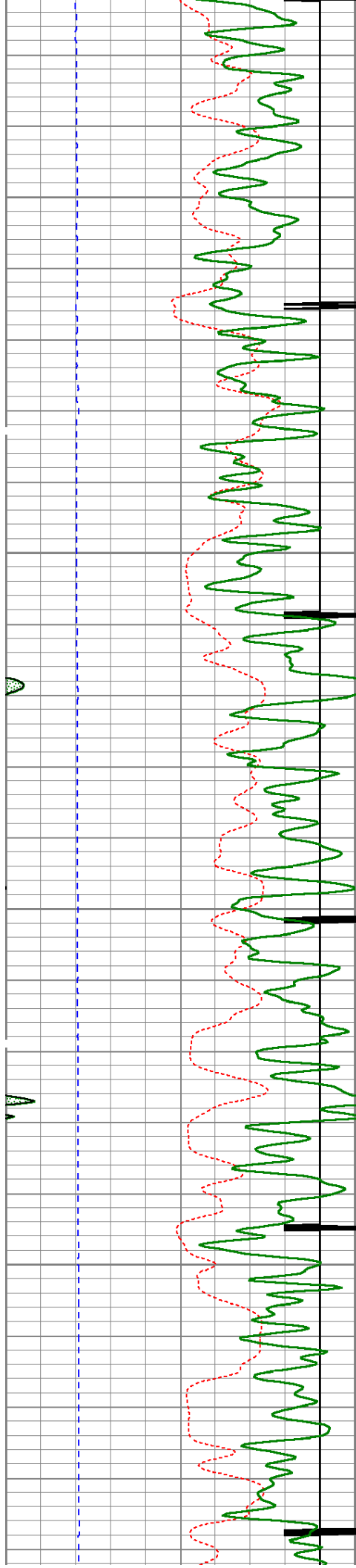
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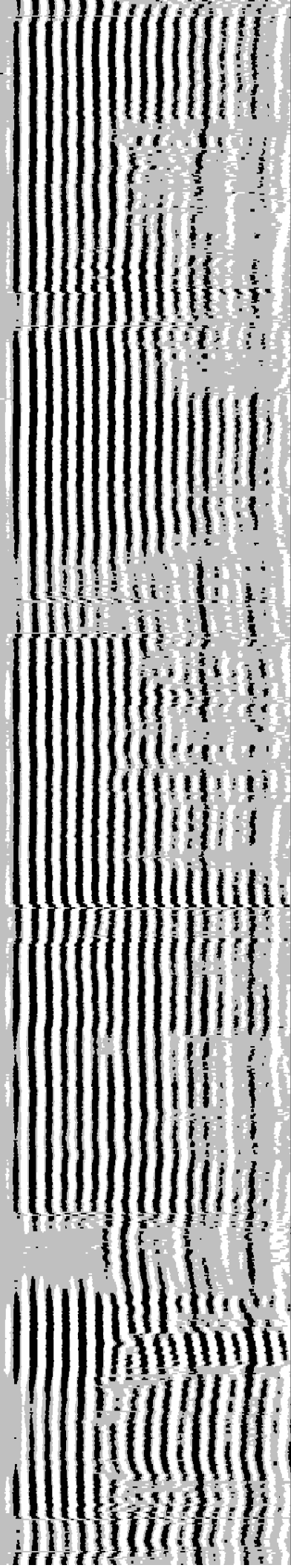
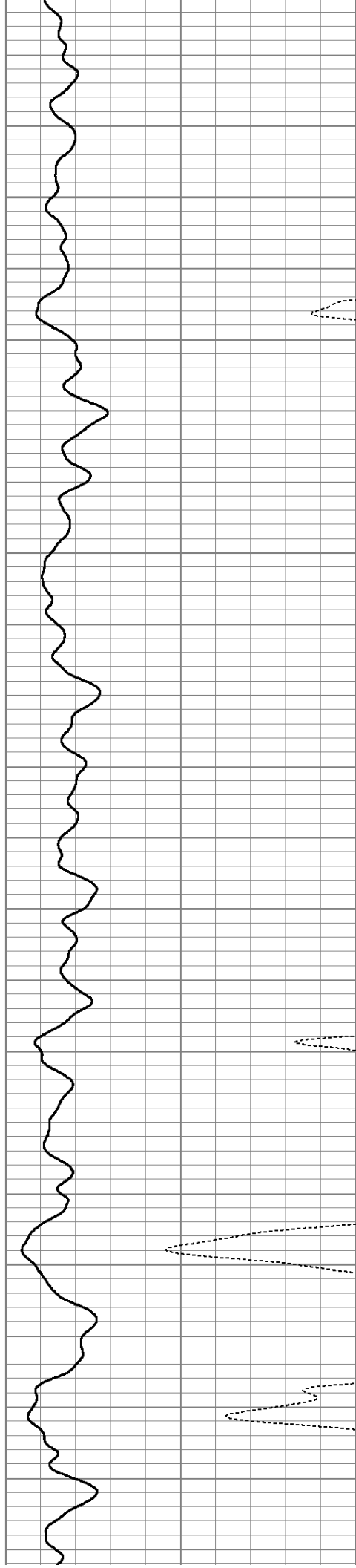


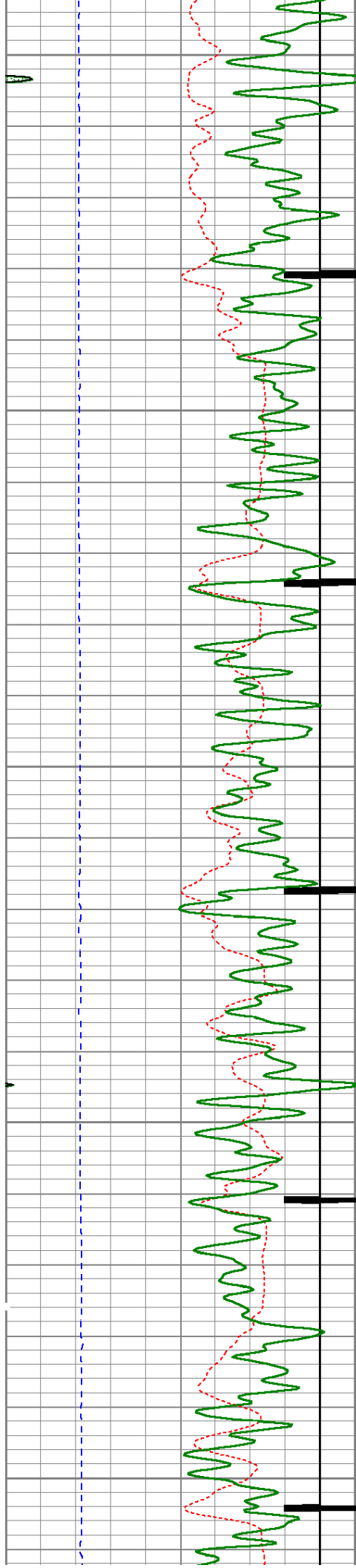
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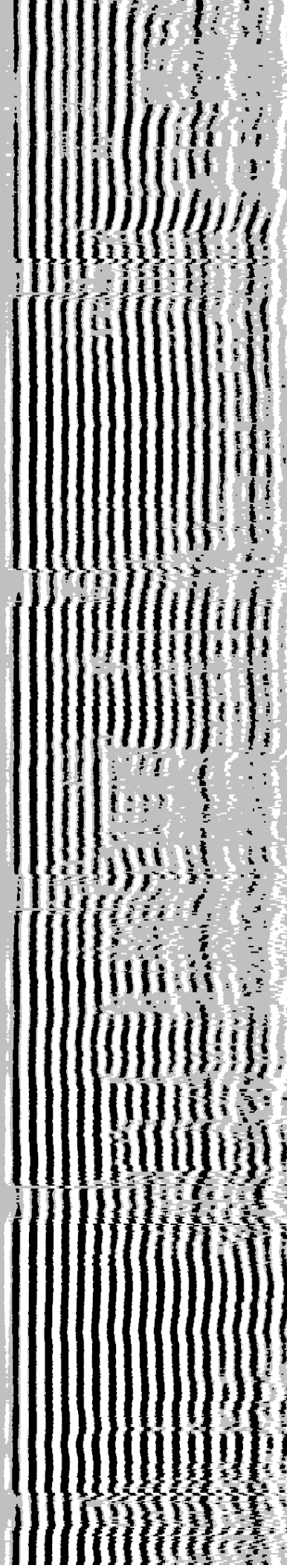
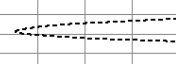
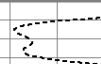
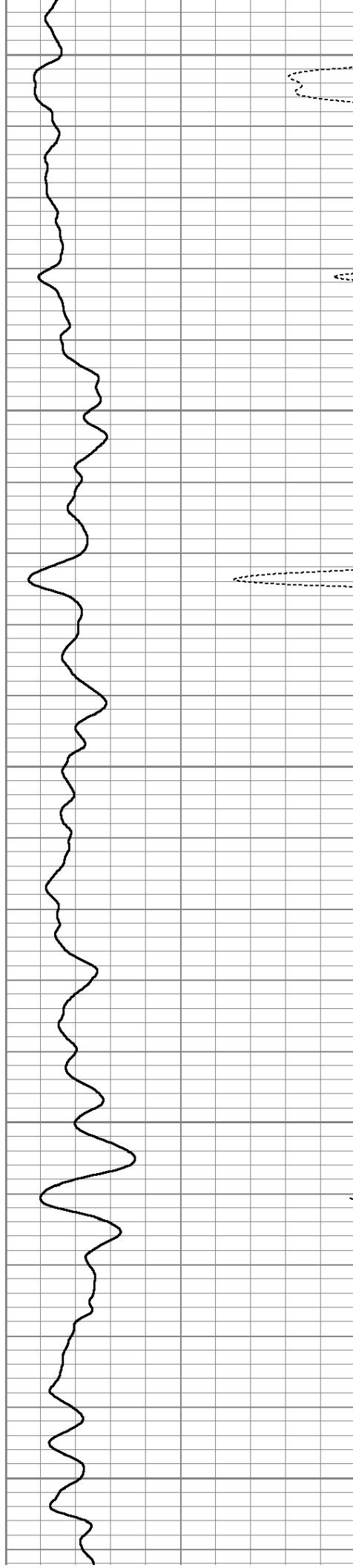
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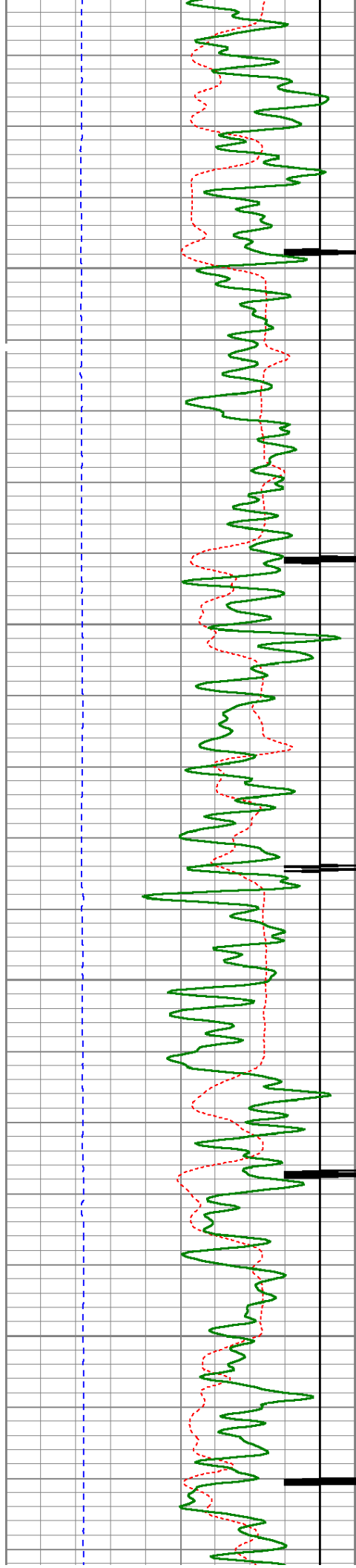
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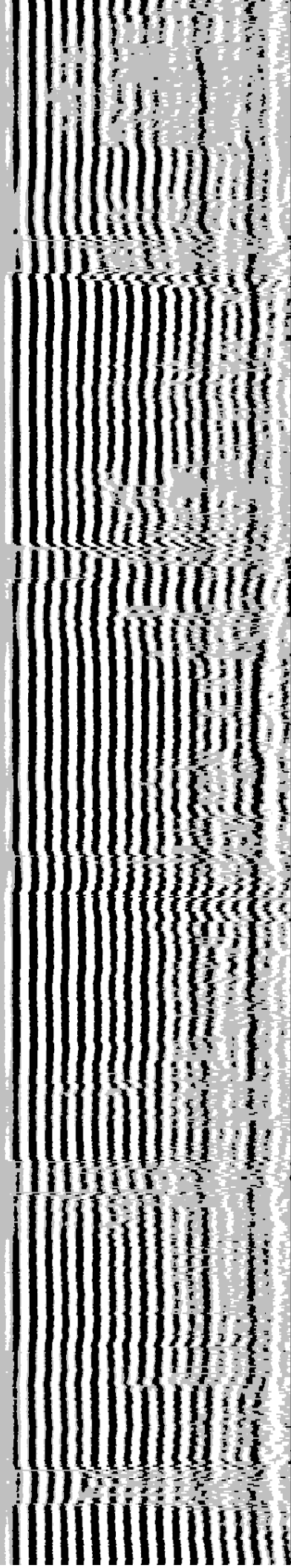
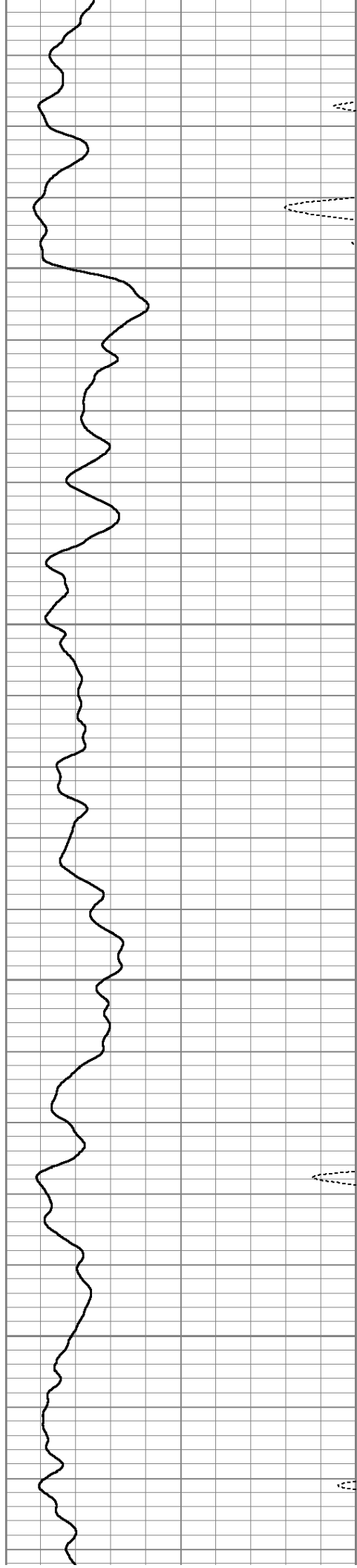


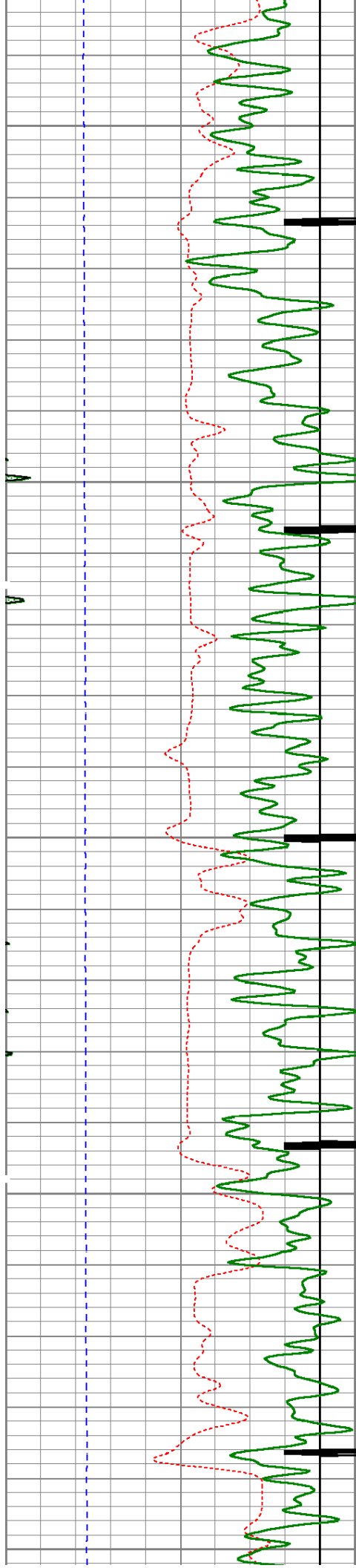
6150

6200

6250

6300





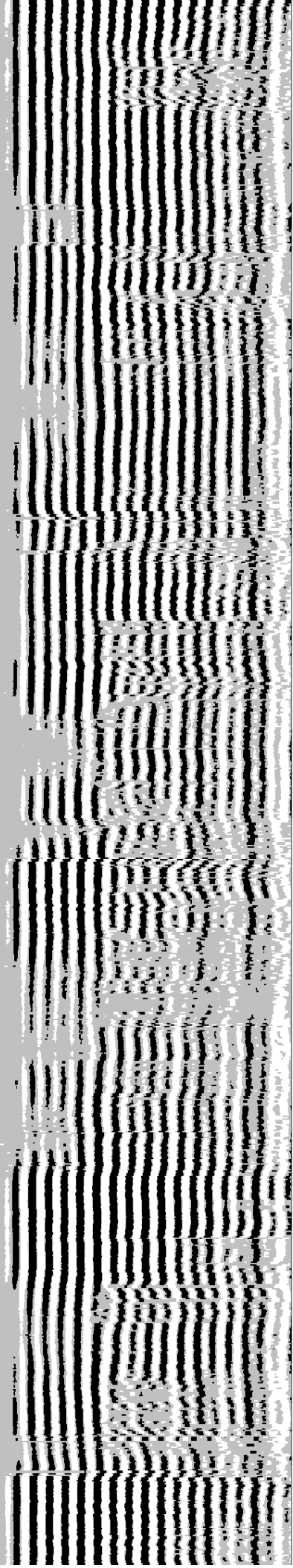
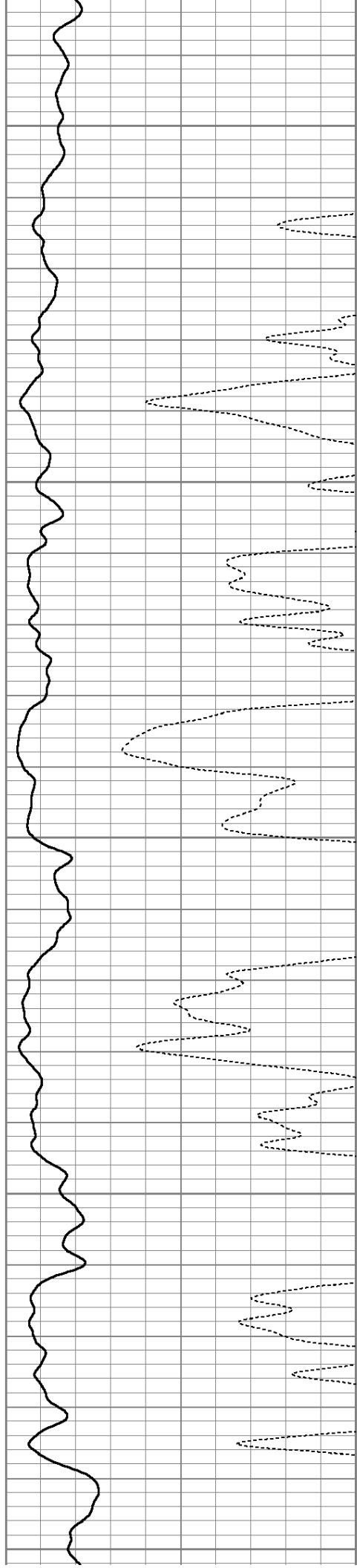
6350

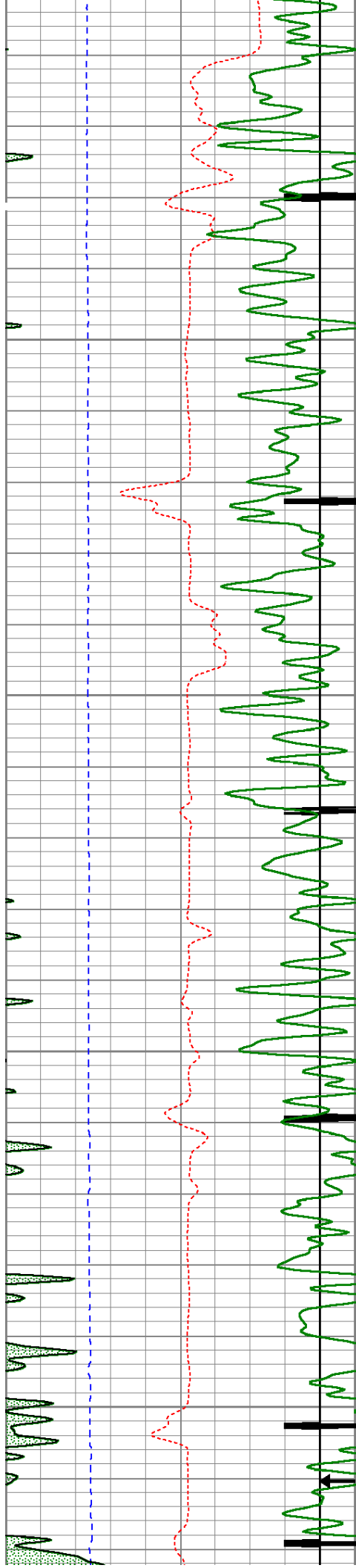
6400

6450

6500

6550





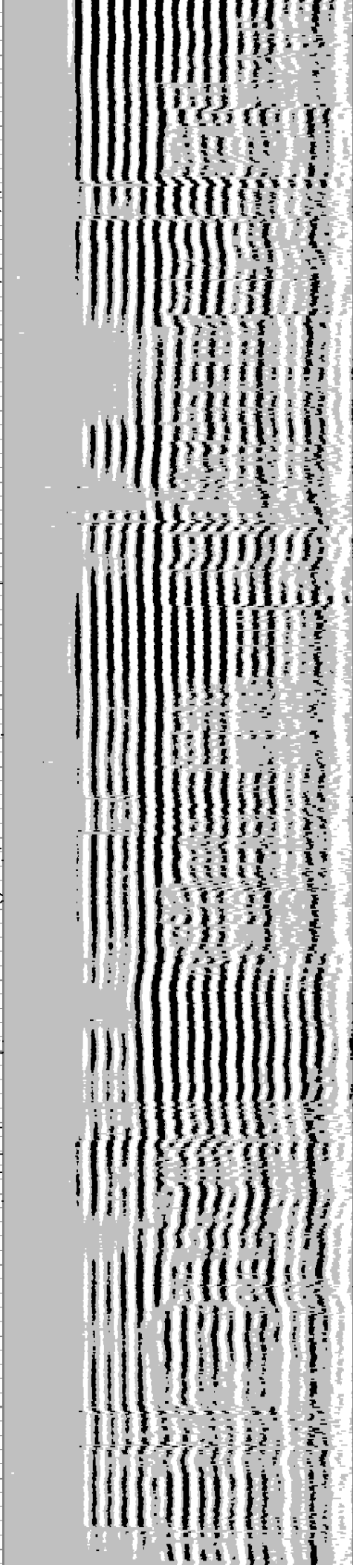
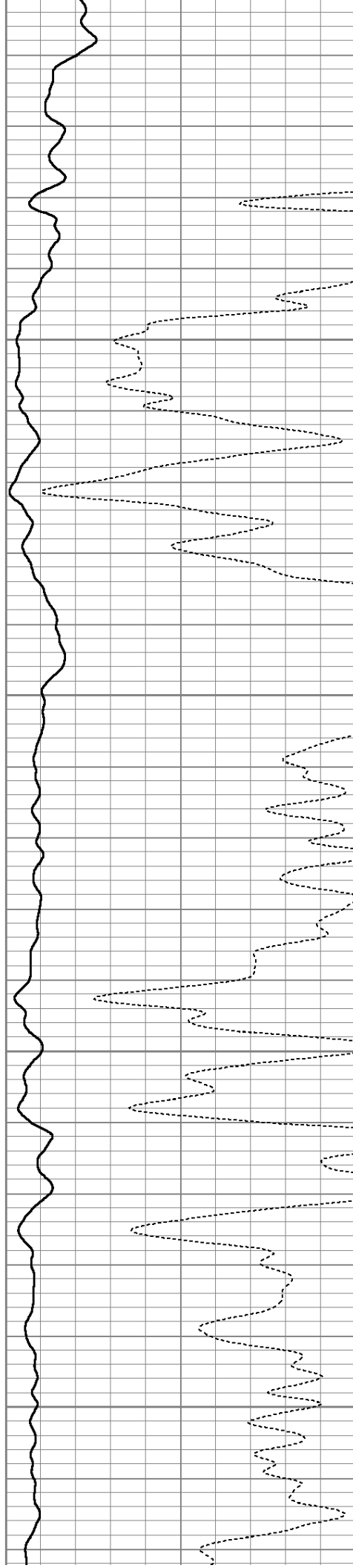
Short Joint

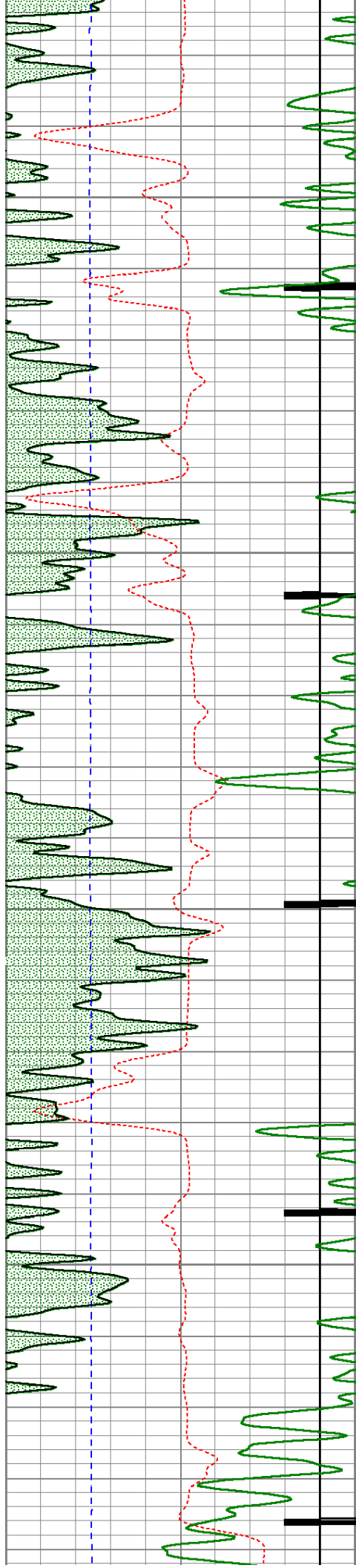
6600

6650

6700

6750



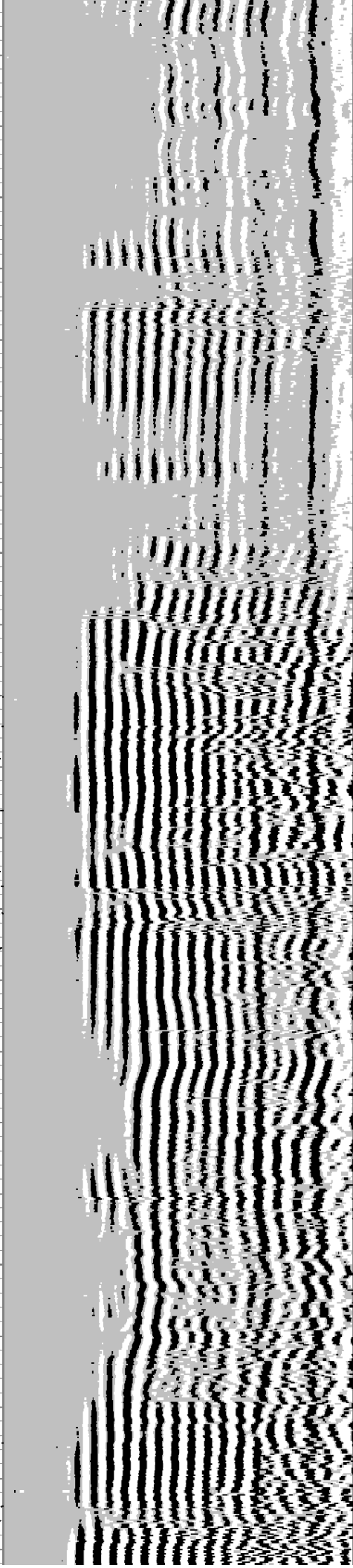
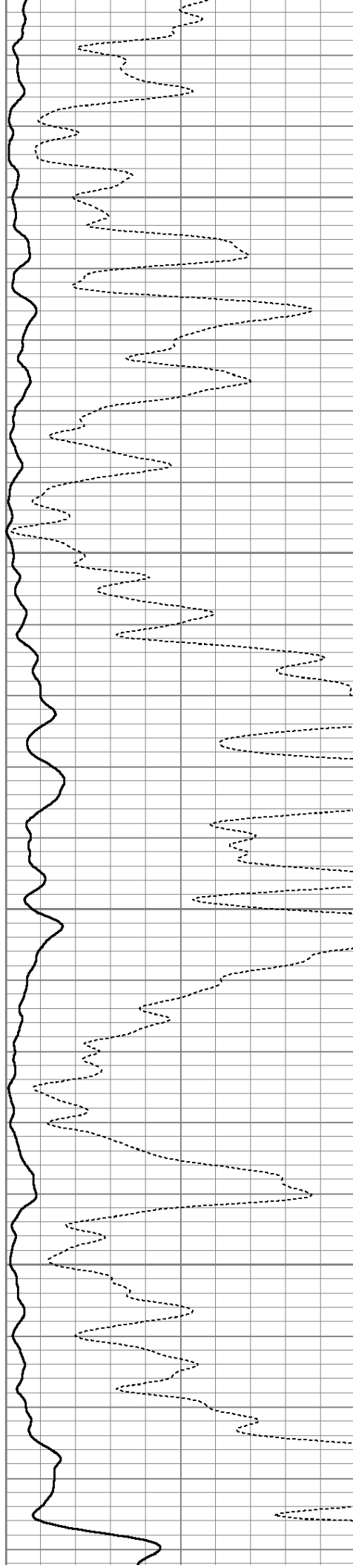


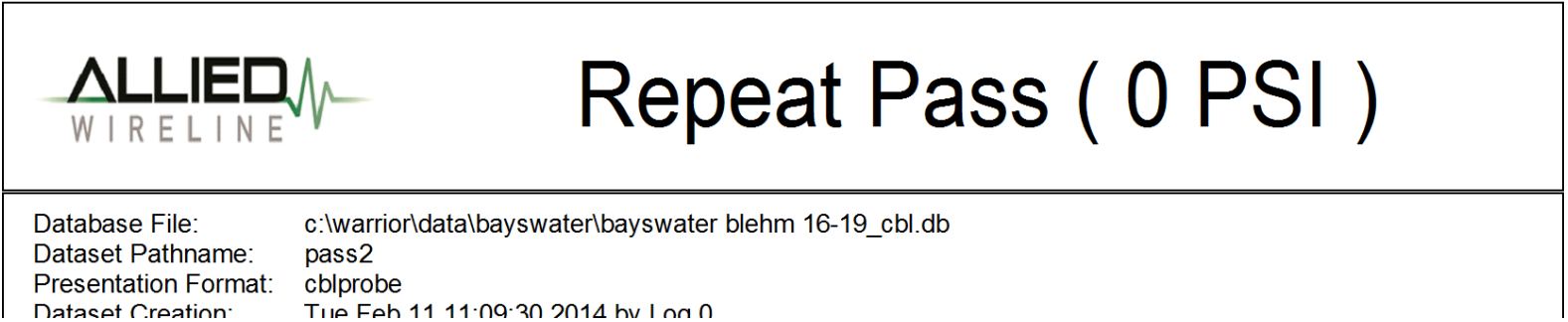
6800

6850

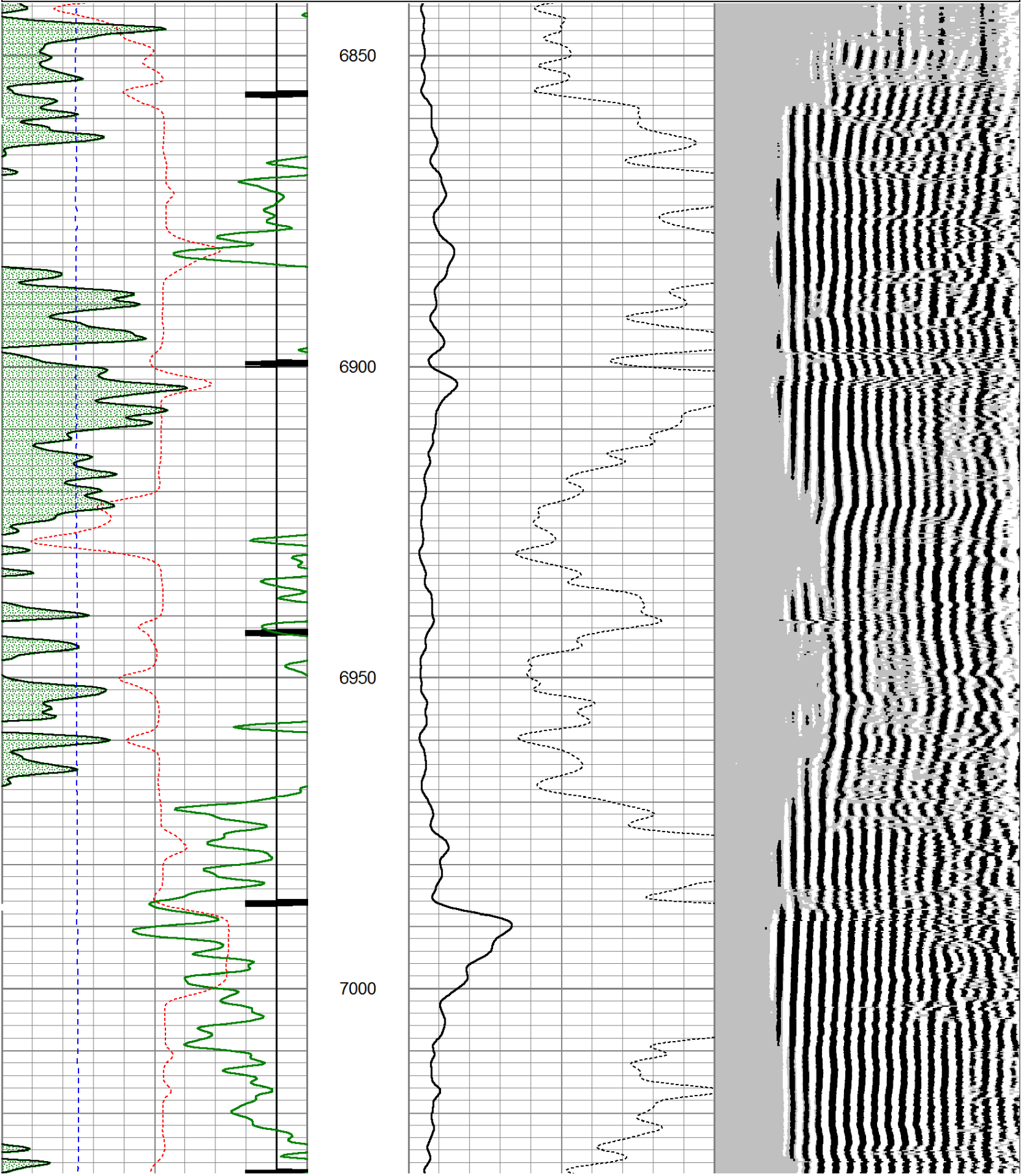
6900

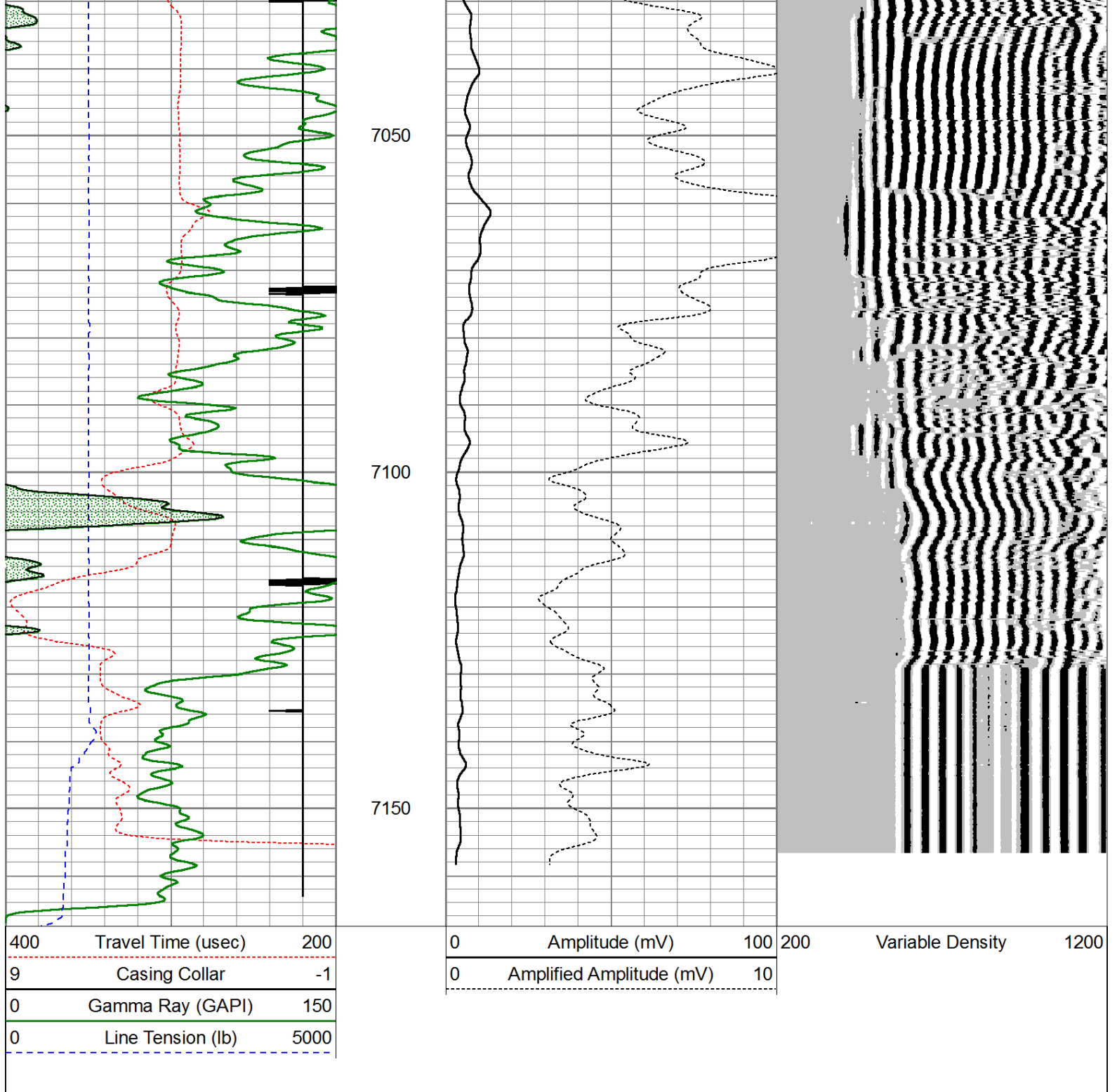
6950





Dataset Creation: Tue Feb 14 11:00:00 2017 by Log v			Depth in Feet scaled 1:240		
400	Travel Time (usec)	200	0	Amplitude (mV)	100
9	Casing Collar	-1	0	Amplified Amplitude (mV)	10
0	Gamma Ray (GAPI)	150	200 Variable Density 1200		
0	Line Tension (lb)	5000			





Calibration Report

Database File: C:\Warrior\Data\Bayswater\bayswater blehm 16-19_cbl.db
Dataset Pathname: pass4.1
Dataset Creation: Tue Feb 11 13:17:14 2014 by Calc 0

Gamma Ray Calibration Report

Serial Number:	111111	
Tool Model:	Probe275	
Performed:	Tue Feb 11 08:37:44 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Temperature Calibration Report

Serial Number: 111111
 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: 4.500 in
 Calibration Depth: 2000.462 ft

Master Calibration, performed Tue Feb 11 12:42:28 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.020	0.716	1.000	81.196	155.325	3.154
CAL	-0.016	0.836				
5'	-0.013	0.653	1.000	81.196	120.511	2.537
SUM						
S1	0.008	0.771	0.000	100.000	131.099	-1.040
S2	-0.025	0.708	0.000	100.000	136.304	3.444
S3	-0.019	0.723	0.000	100.000	134.783	2.558
S4	-0.021	0.729	0.000	100.000	133.427	2.766
S5	-0.021	0.722	0.000	100.000	134.622	2.777
S6	-0.021	0.713	0.000	100.000	136.265	2.808
S7	-0.020	0.711	0.000	100.000	136.770	2.778
S8	-0.021	0.715	0.000	100.000	135.953	2.793

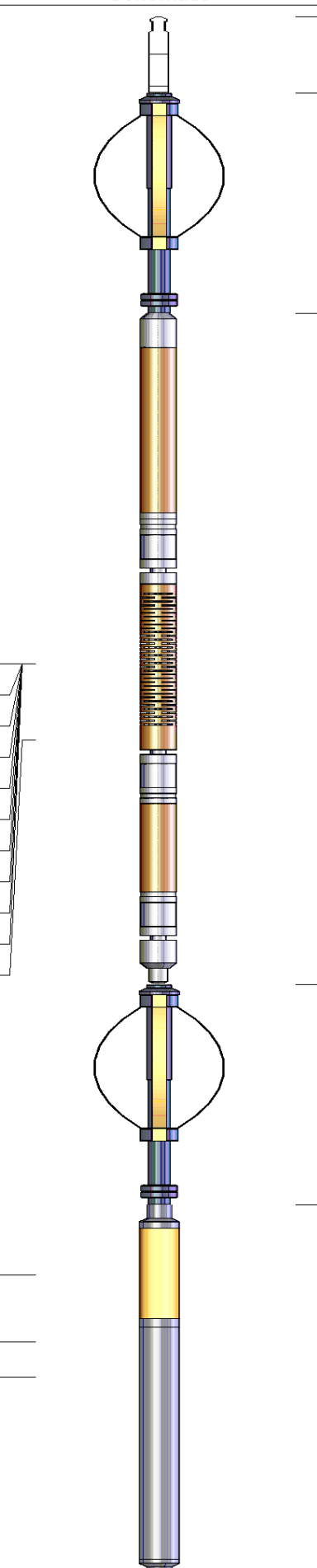
Internal Reference Calibration, performed Mon Oct 10 09:42:03 2005:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.016	0.836	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	

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
			RBT-Probe (101224) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFS3FT	11.84					
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					
WVF5FT	10.84					
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL	3.88					
TEMP	3.00					
GR	2.54		GR-Probe275 (111111) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00

Dataset:	bayswater blehm 16-19_cbl.db: field/well/run1/pass4.1
Total Length:	20.28 ft
Total Weight:	197.00 lb
O.D.	2.75 in