



CEMENT BOND
VARIABLE DENSITY LOG
W/ GAMMA RAY/ CCL

Company BONANZA CREEK ENERGY		Company BONANZA CREEK ENERGY	
Well Pronghorn 11-14-18HNB		Well Pronghorn 11-14-18HNB	
Field Wattenberg		Field Wattenberg	
County Weld		County Weld	
State Colorado		State Colorado	
Location: SHL: 200' FNL & 1311' FWL NW/NW SEC 18 TWP 5 N RGE 61 W		API # : 05-123-38973	
Permanent Datum Log Measured From Drilling Measured From		Ground Level Elevation 4569' Kelly Busing 16' APD Kelly Busing Elevation K.B. 4585' D.F. 4584' G.L. 4569'	
Date	April 8th, 2014		
Run Number	One		
Depth Driller	N/A		
Depth Logger	6234'		
Bottom Logged Interval	6220'		
Top Log Interval	Surface		
Open Hole Size	8.75"		
Type Fluid	WATER		
Density / Viscosity	8.33		
Max. Recorded Temp.	N/A		
Estimated Cement Top	3240'		
Time Well Ready	0900		
Time Logger on Bottom	0935		
Equipment Number	12029		
Location	Brighton, CO		
Recorded By	Robert Grissom		
Witnessed By	D. Barberousse		
Borehole Record		Tubing Record	
Run Number	Bit From To	Size	Weight From To
ONE	13.5" 0		
TWO	8.75" 0		
THREE	6.025"		
Casing Record	Size	Wgt/Ft	Top Bottom
Surface String	9.625"	36	0
Prot. String			
Production String	7"	26	0
Liner	4.5"	11.6	

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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 with (0) PSI

Kelly Busing = 16'

Thank You For Using Allied Wireline Services!!

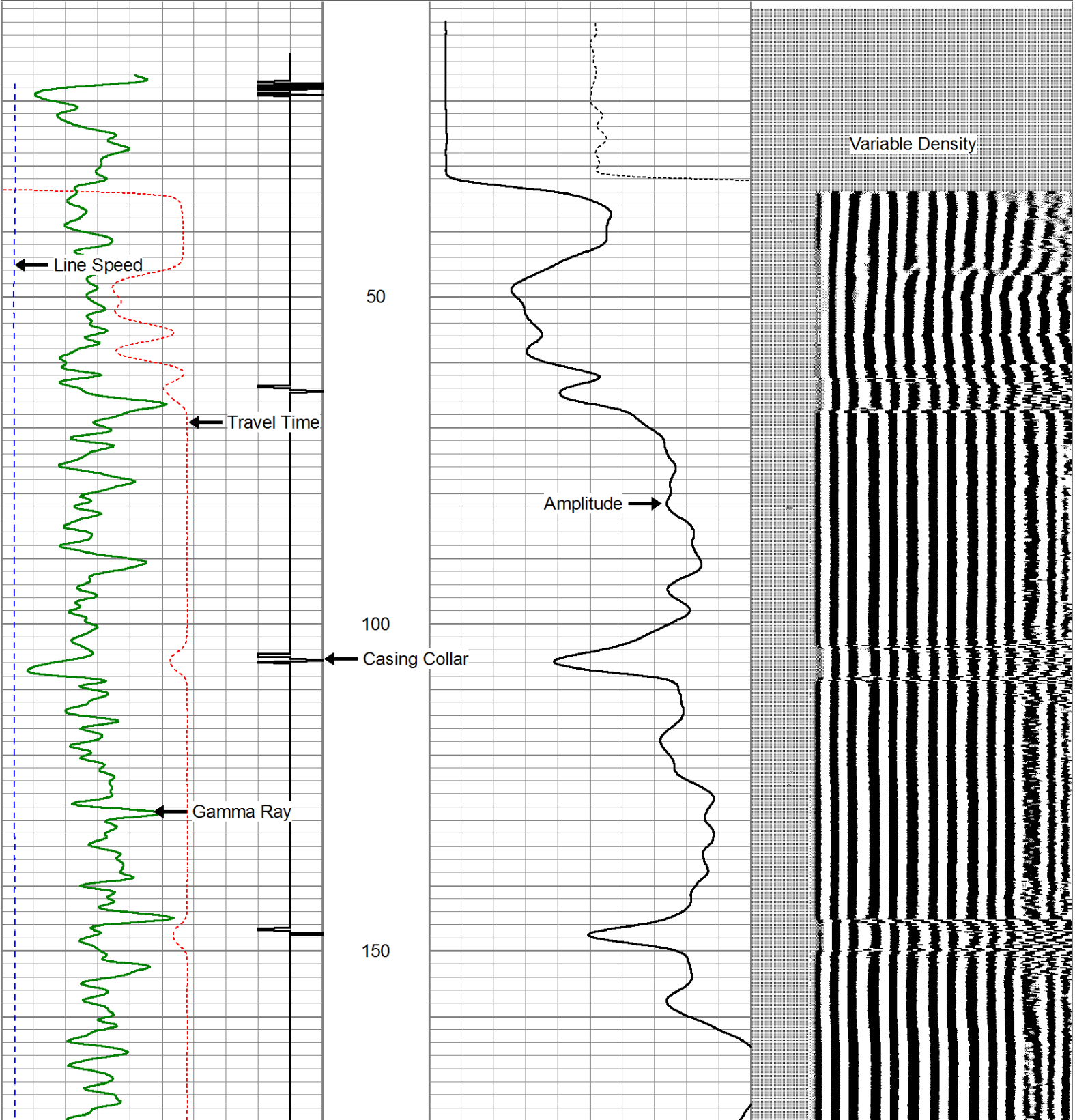
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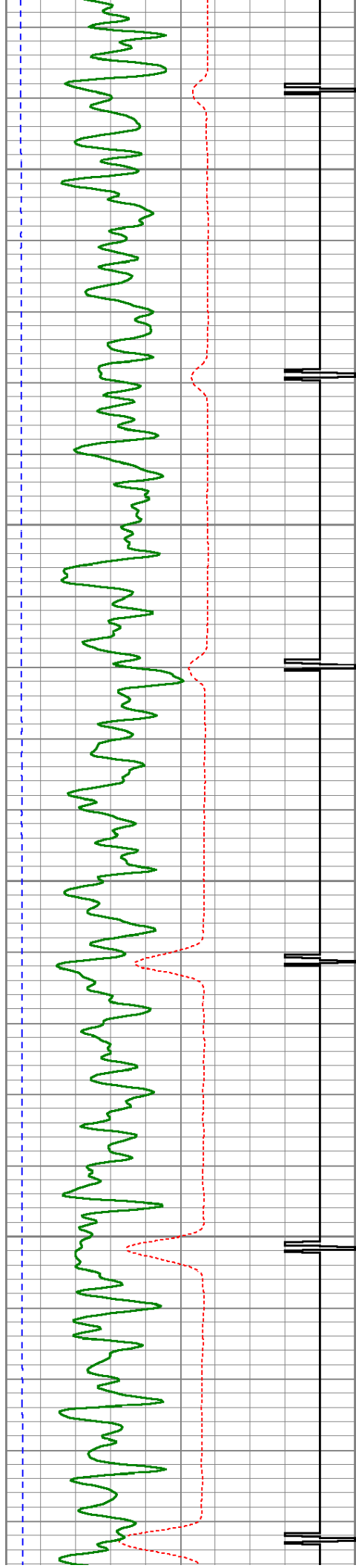


Main Pass (0PSI)

Database File: bonanza creek pronghorn 11-14-18hnb_cbl.db
Dataset Pathname: pass4
Presentation Format: cblprobe
Dataset Creation: Tue Apr 08 09:56:06 2014 by Log SCH 120126
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)	5000						



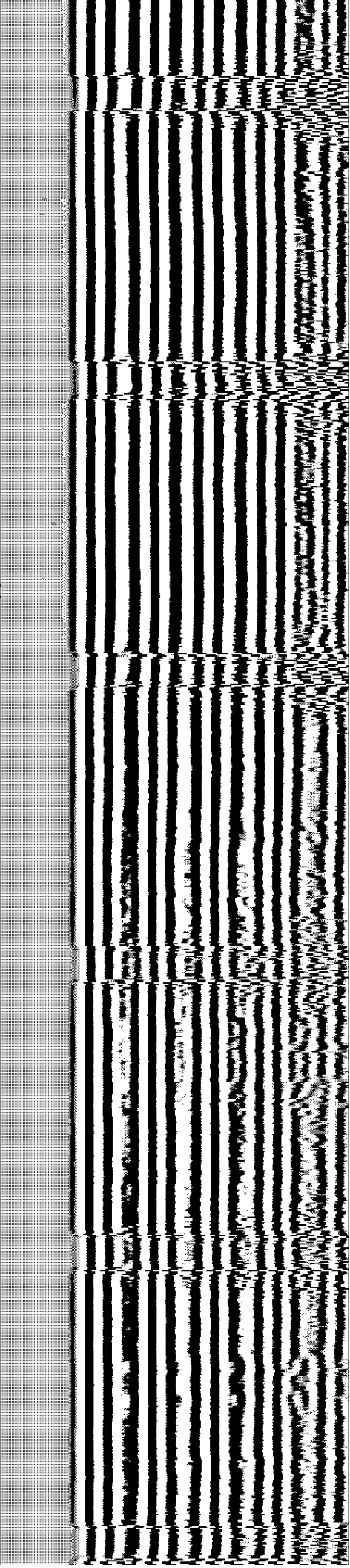
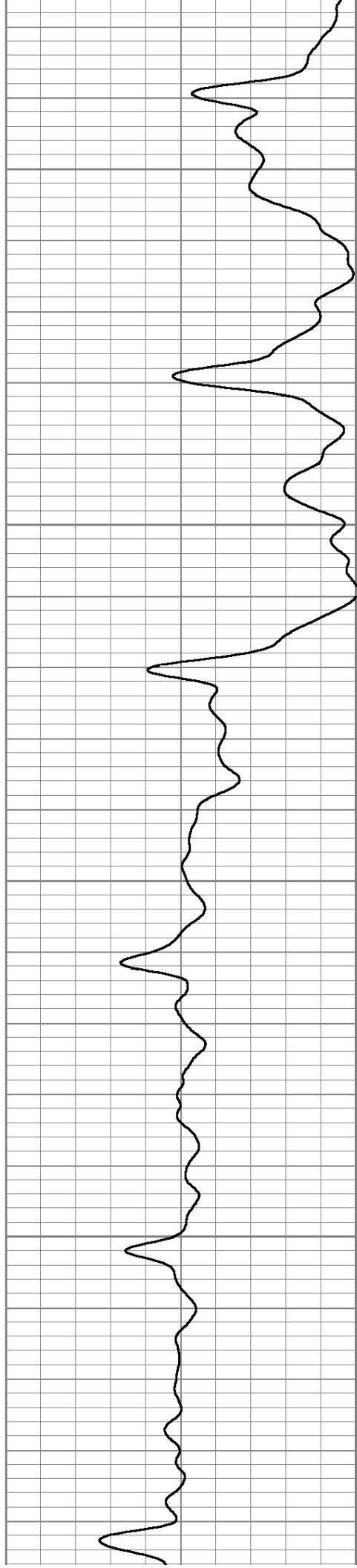


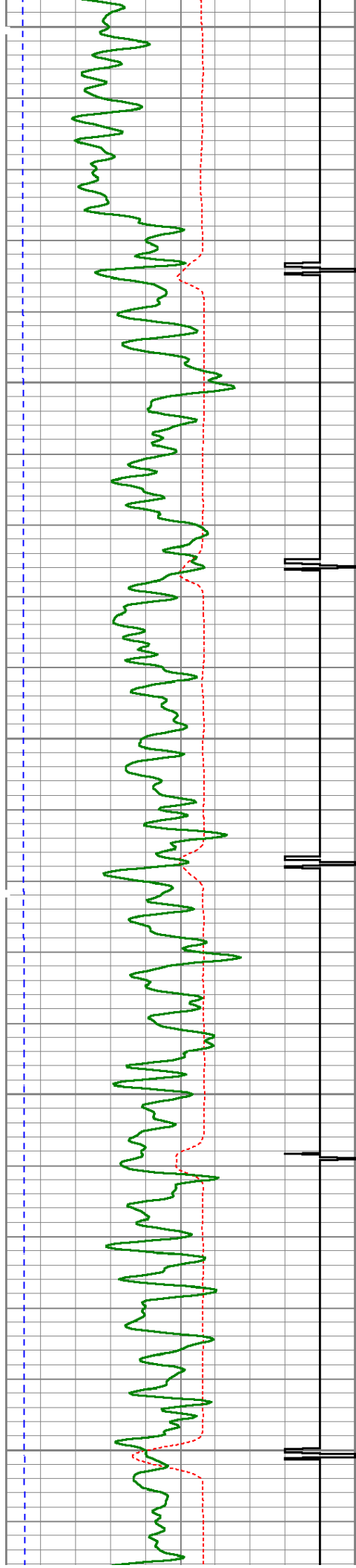
200

250

300

350





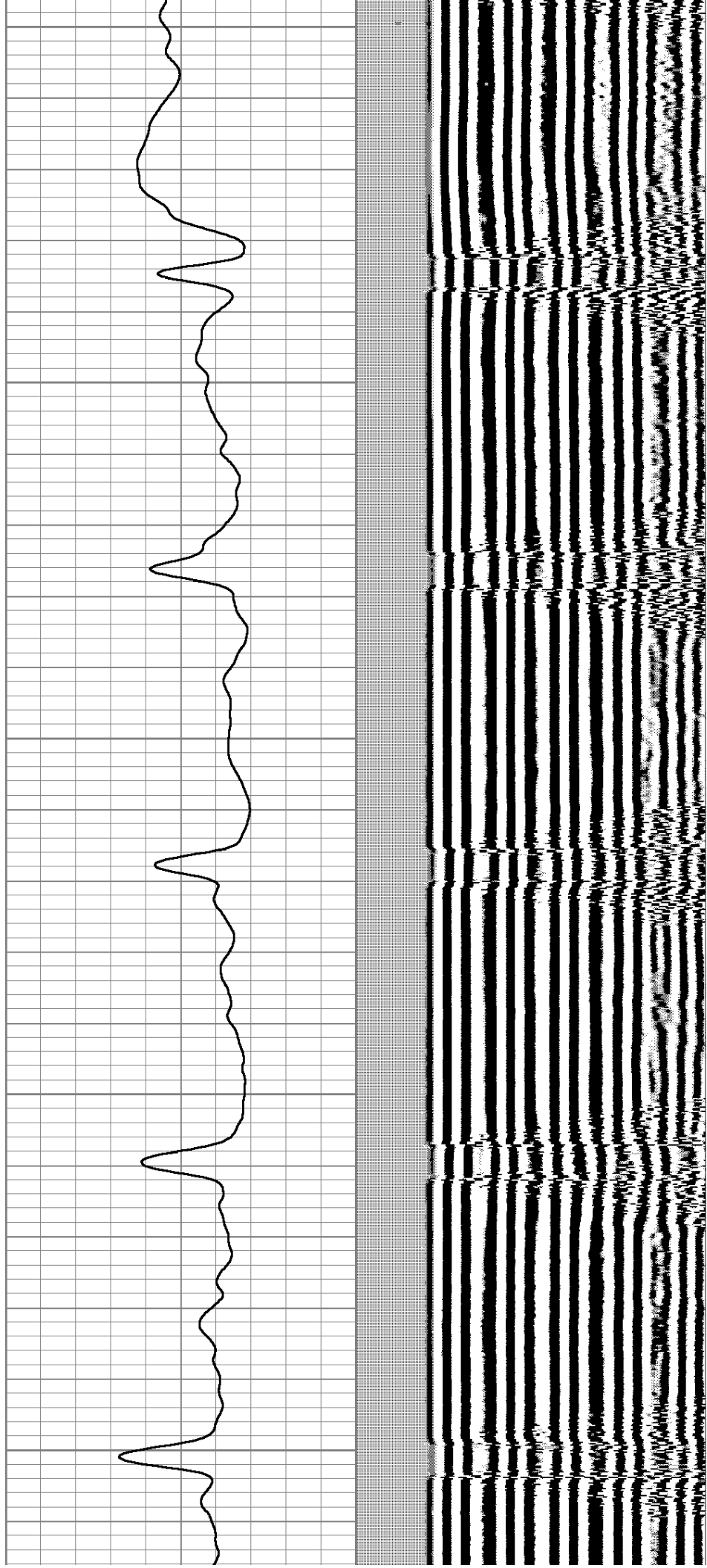
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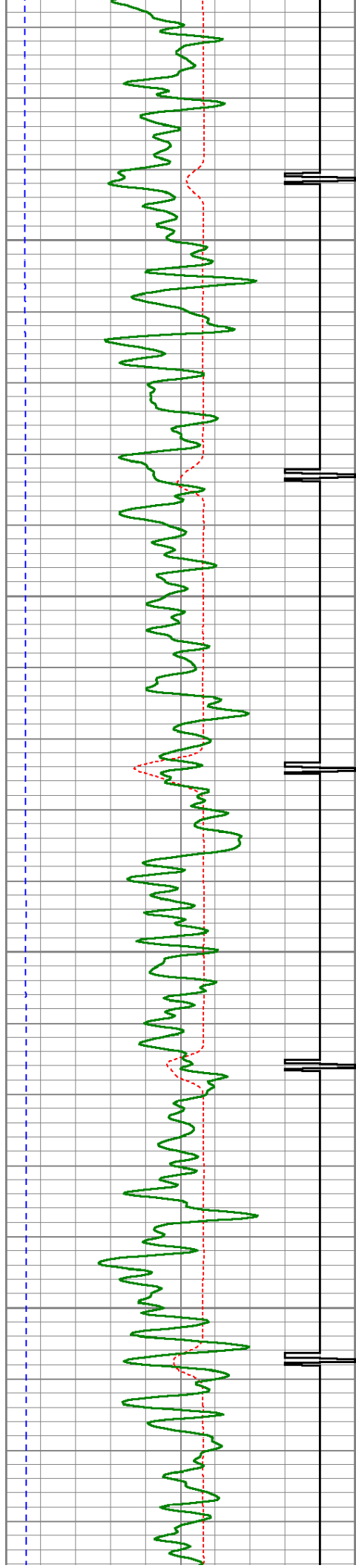
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600



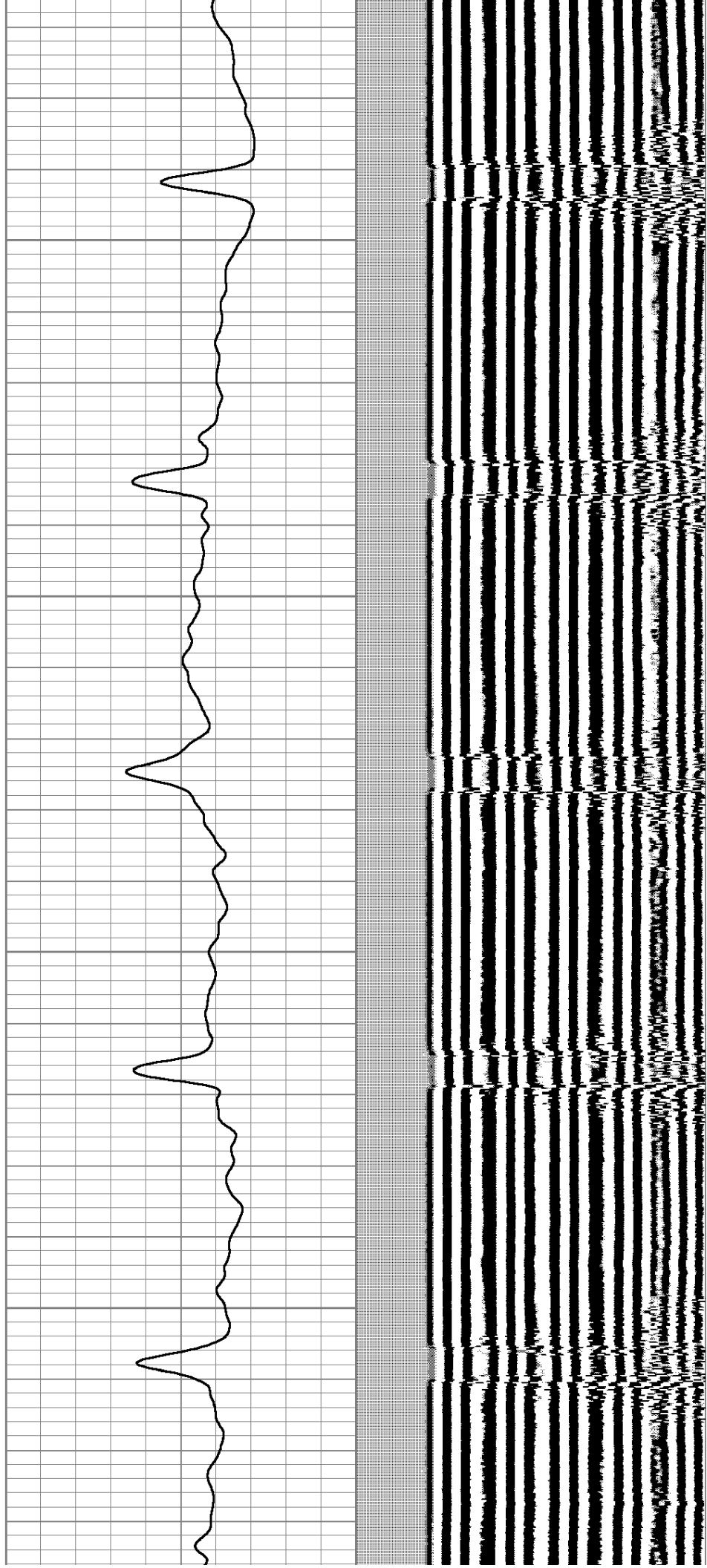


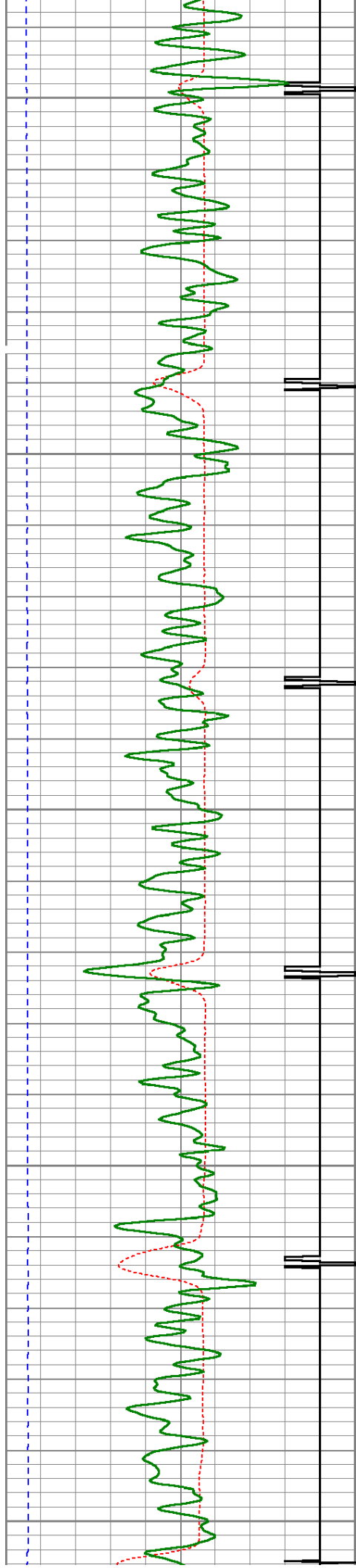
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700

750

800





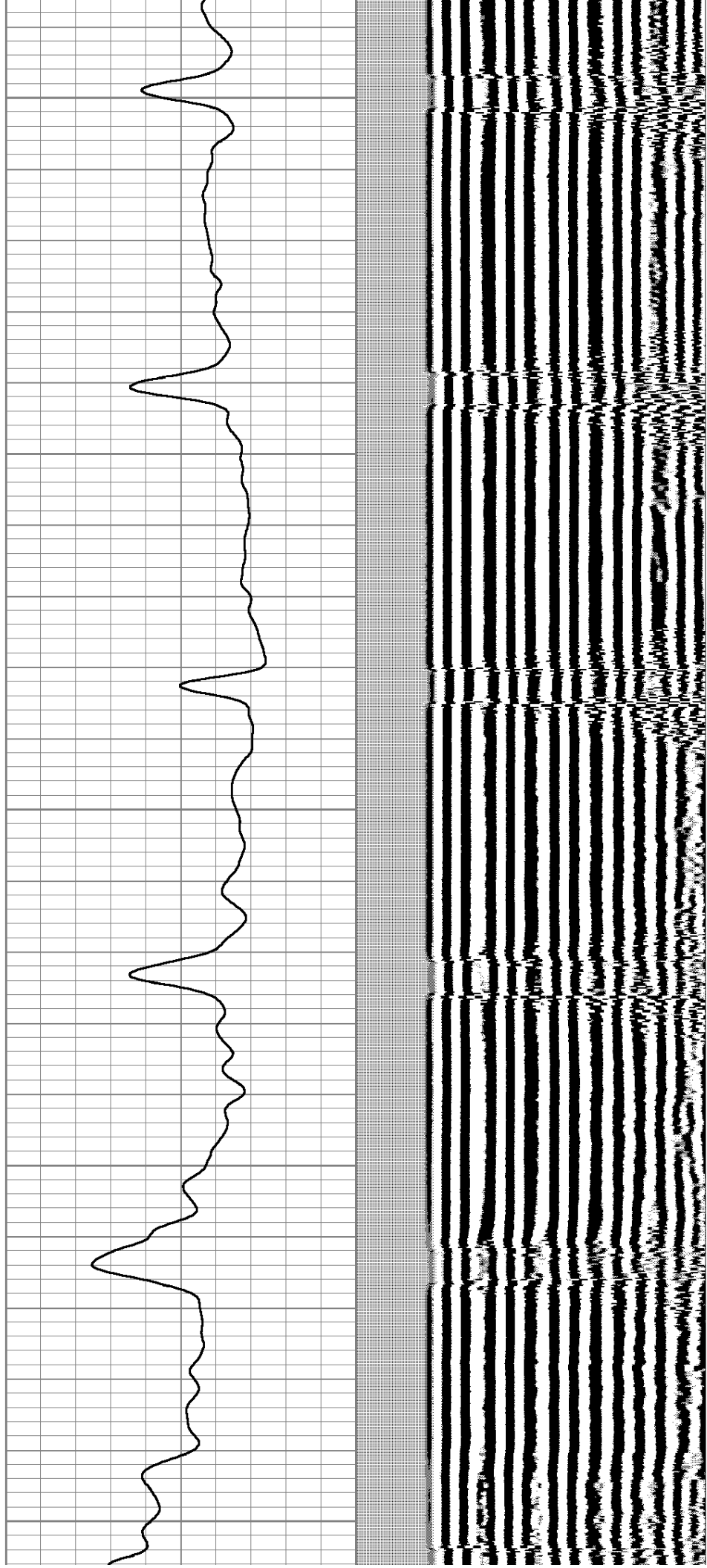
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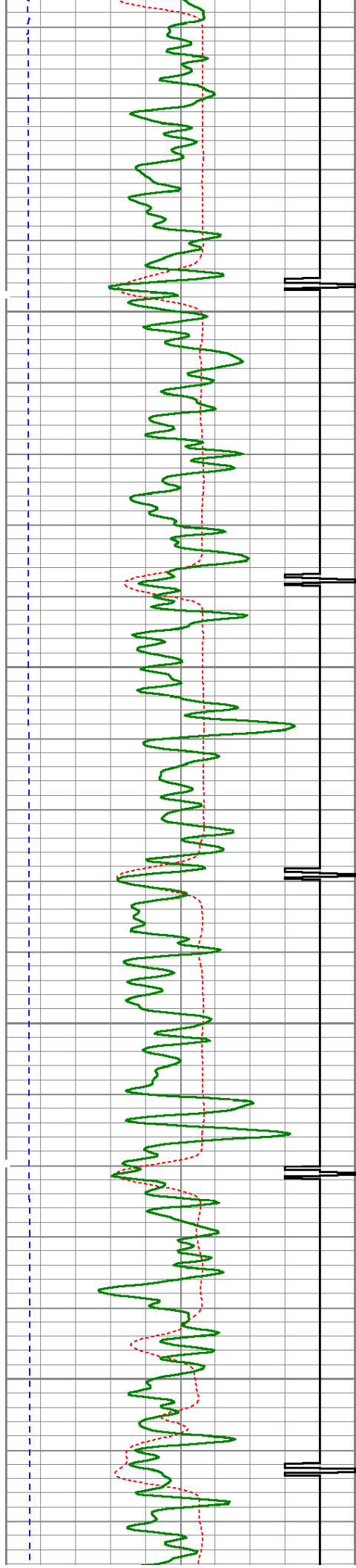
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1000

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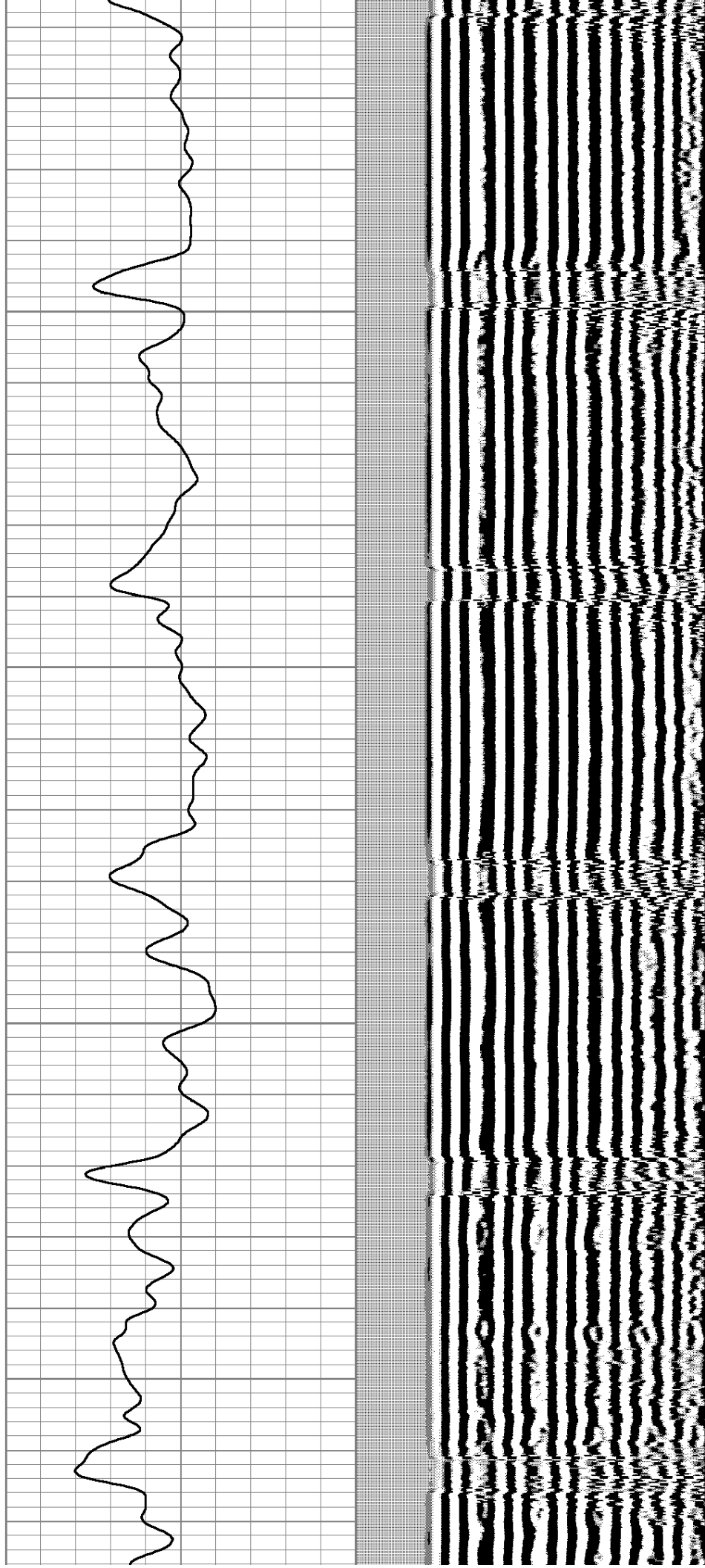


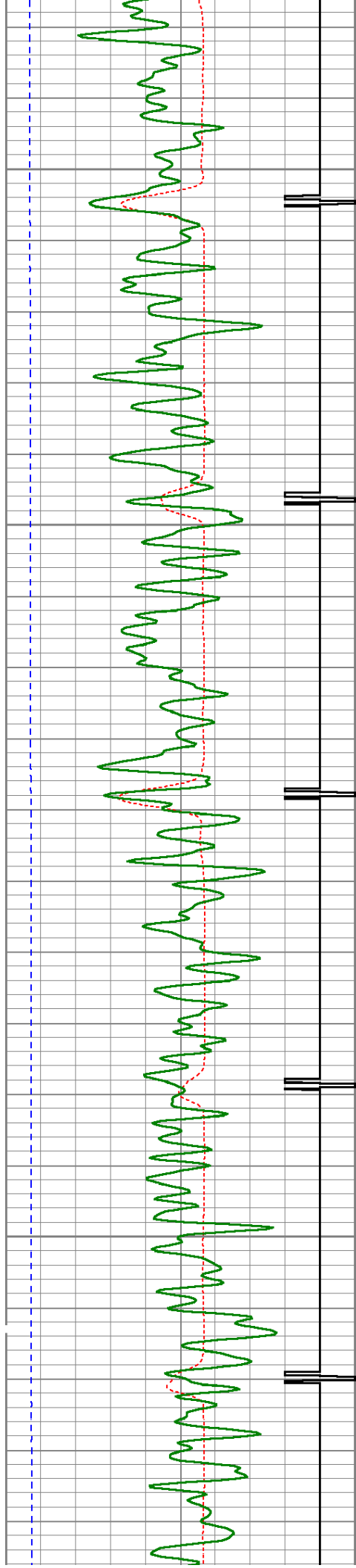
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1200

1250



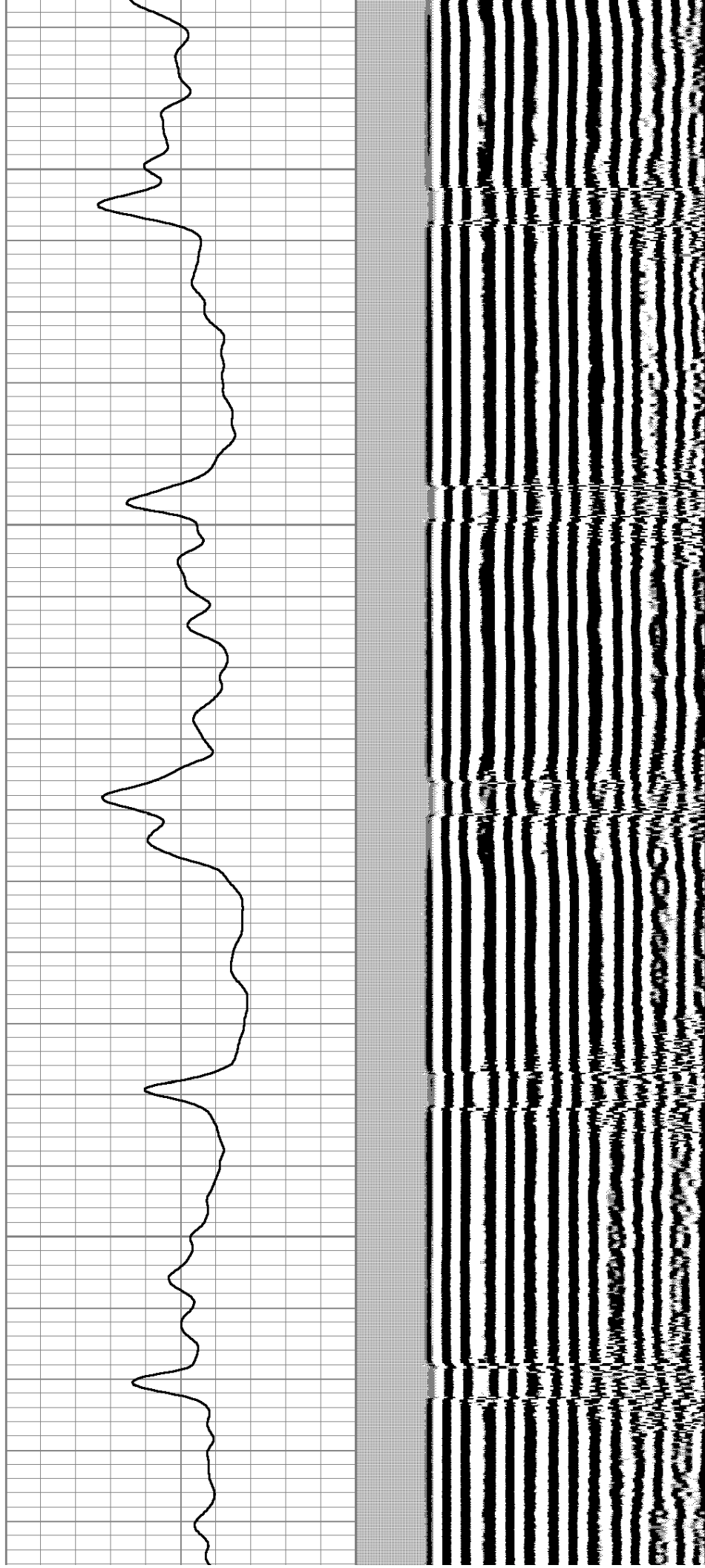


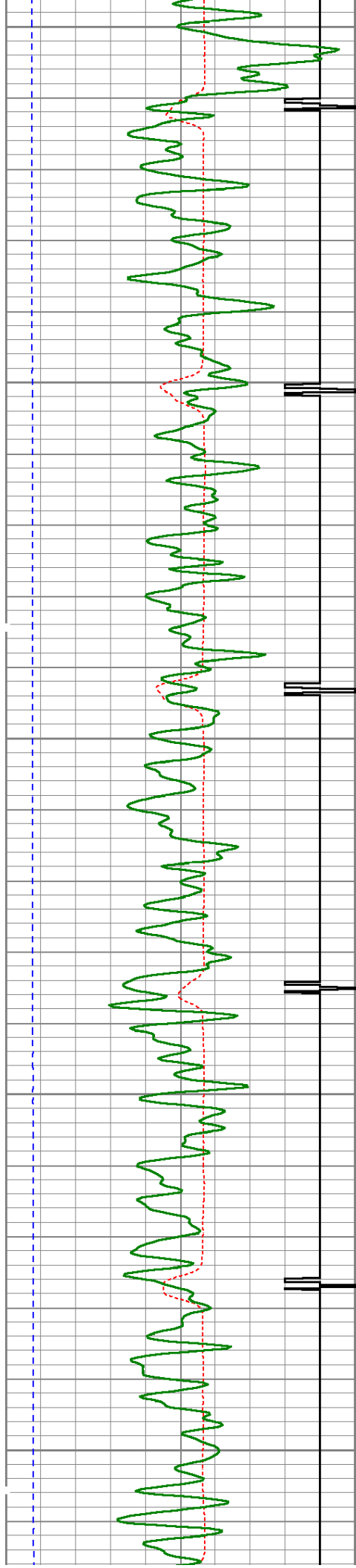
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1400

1450





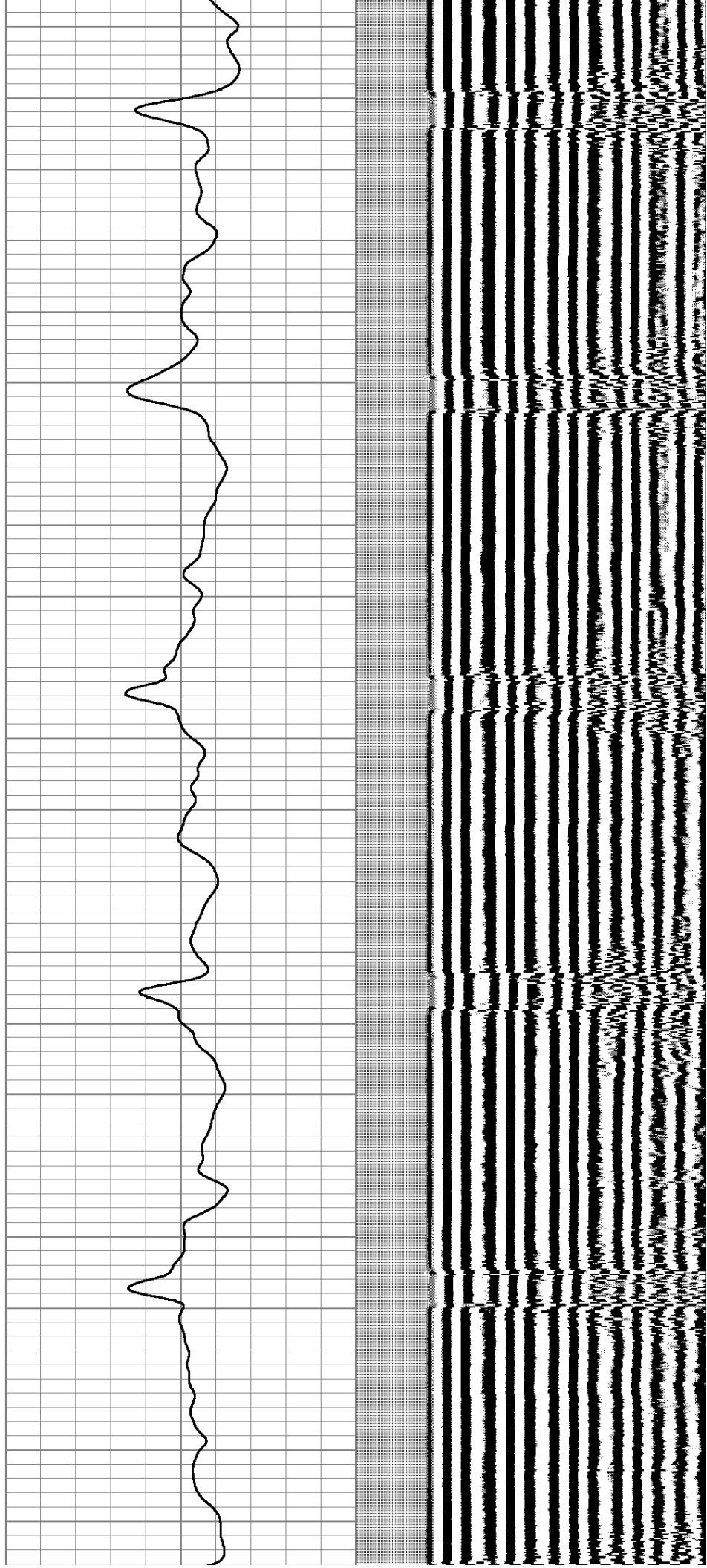
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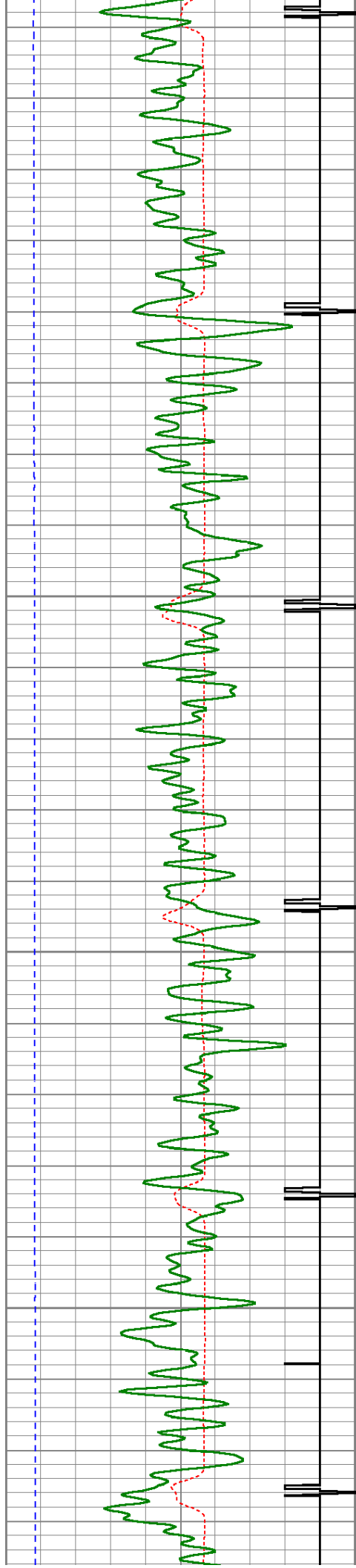
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1700



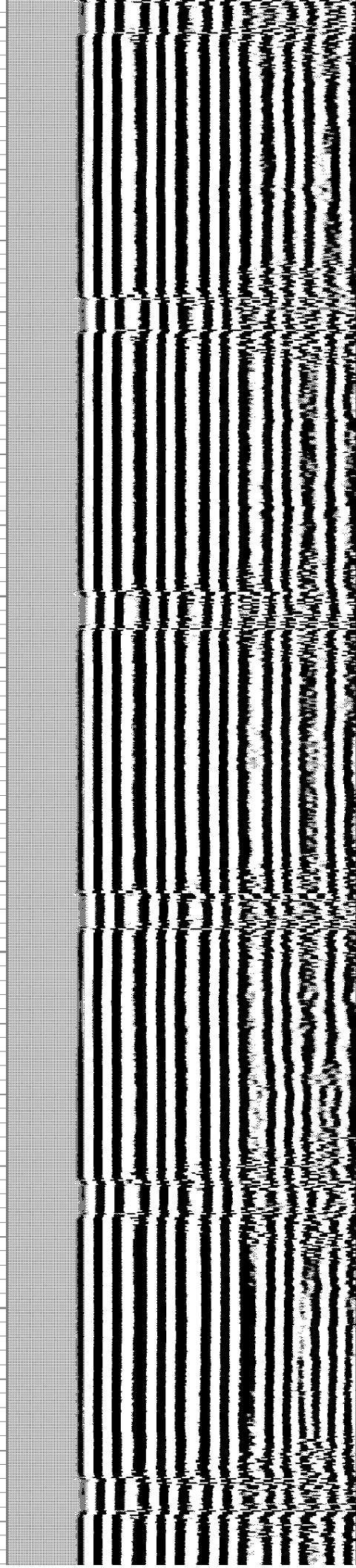
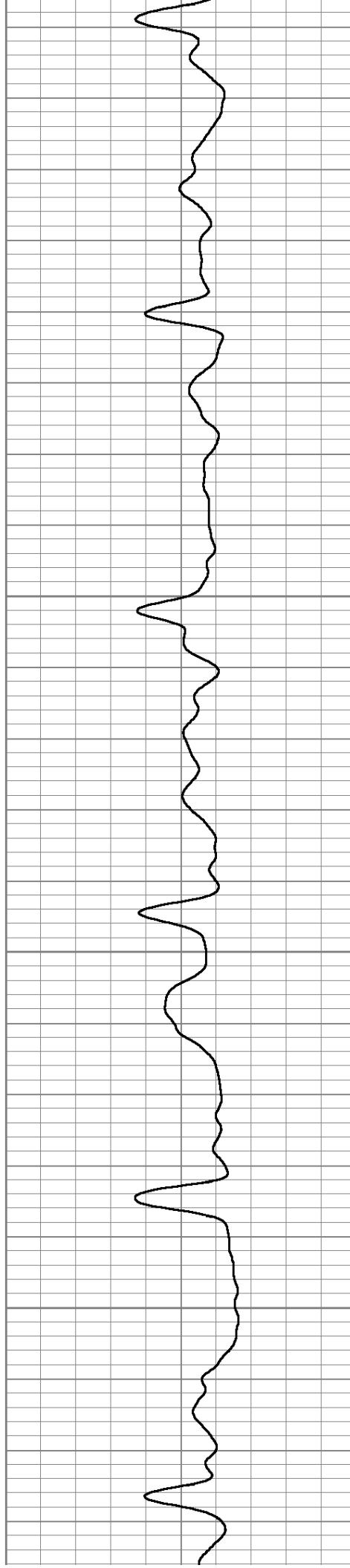


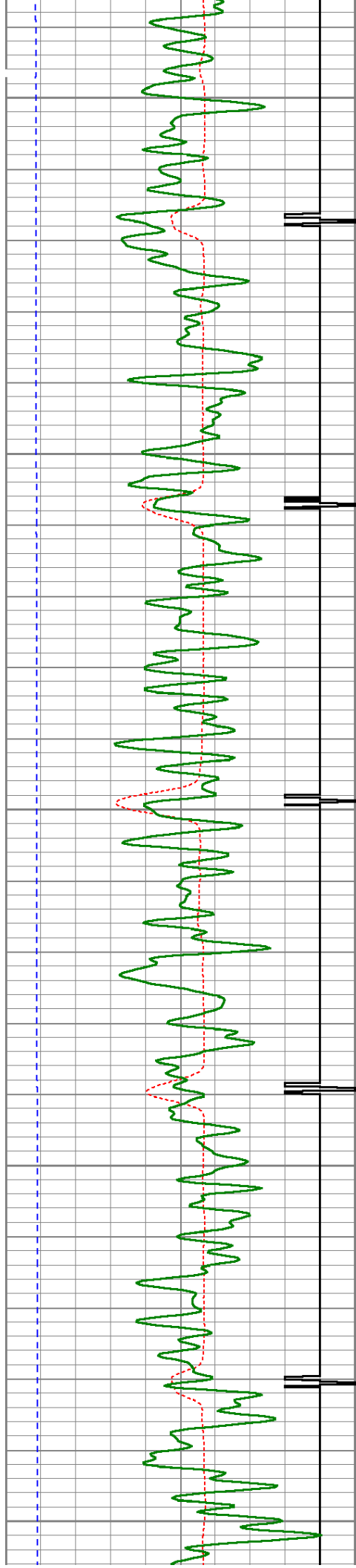
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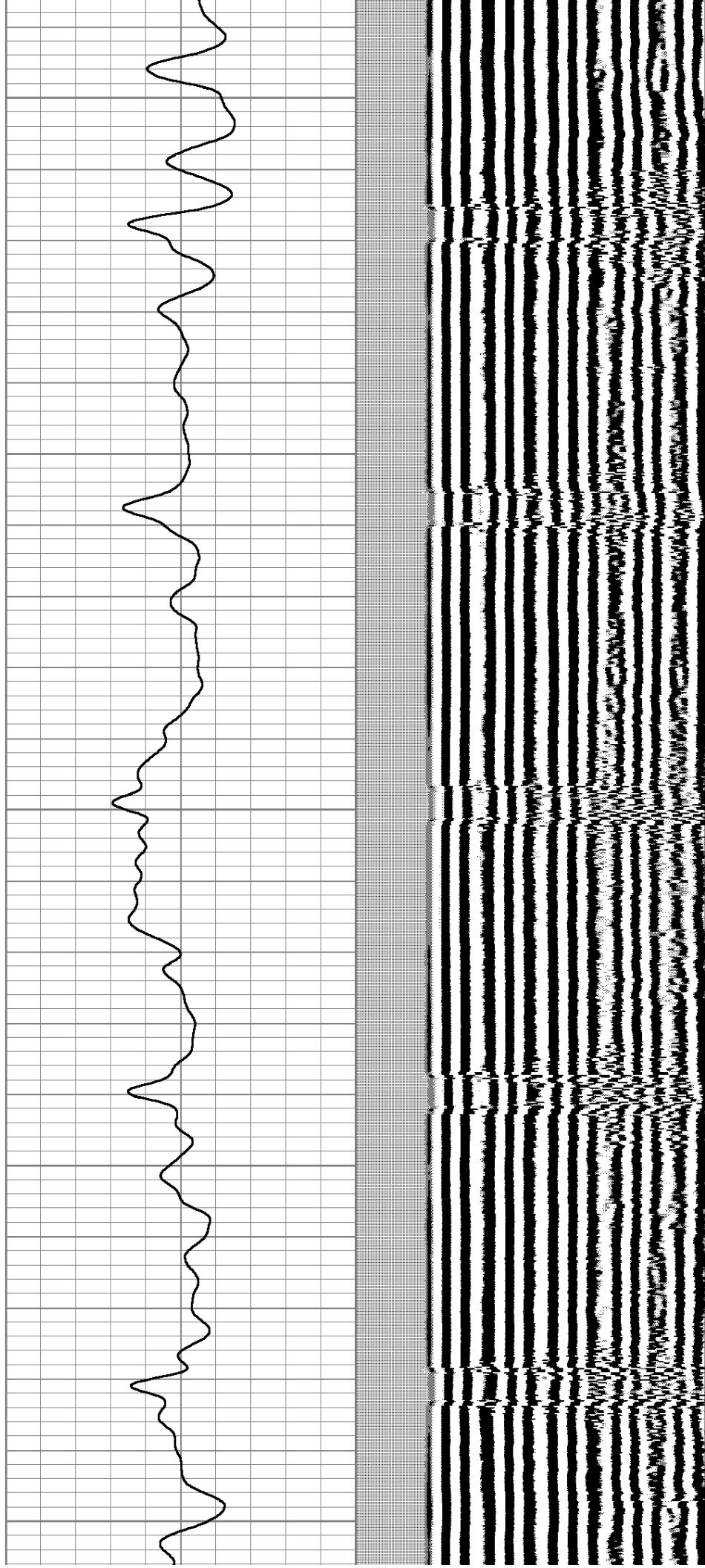
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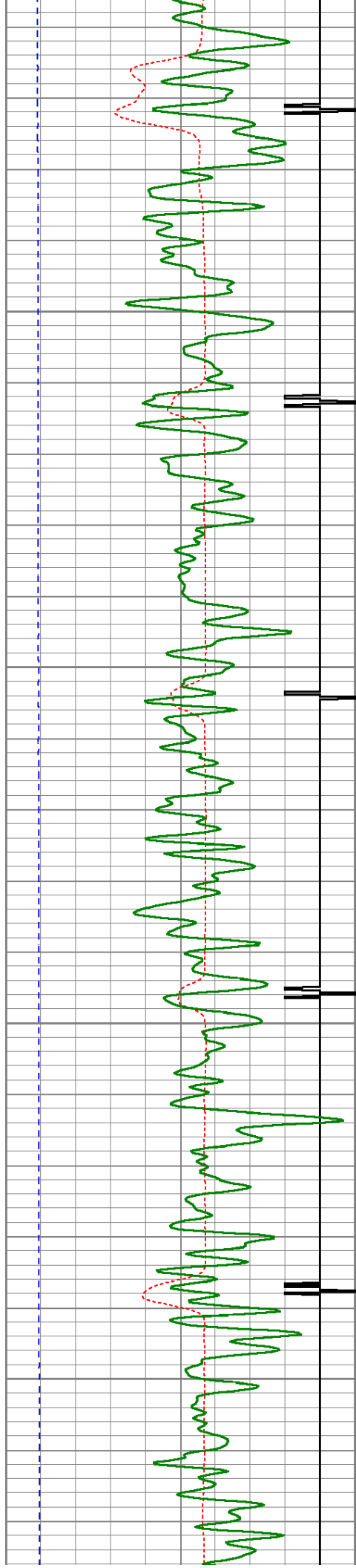
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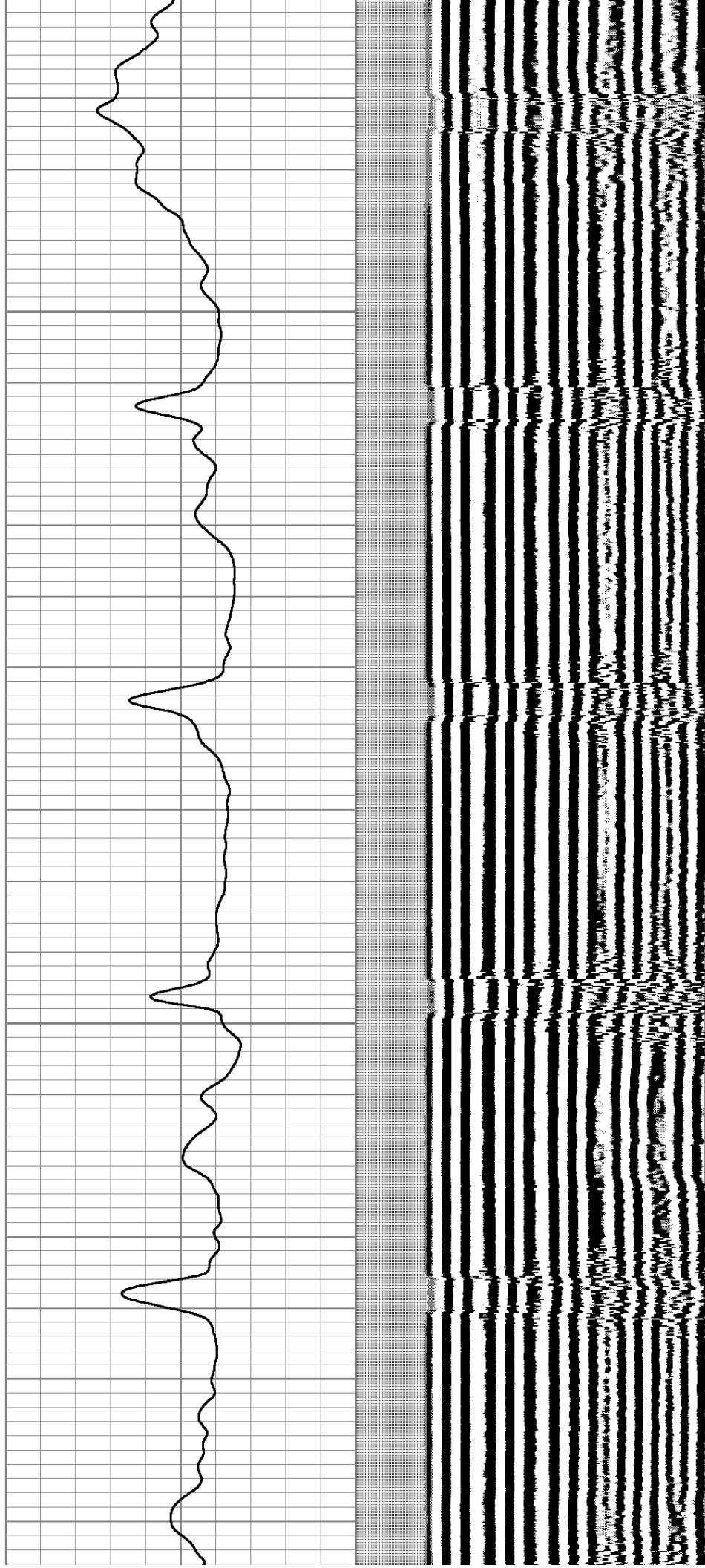


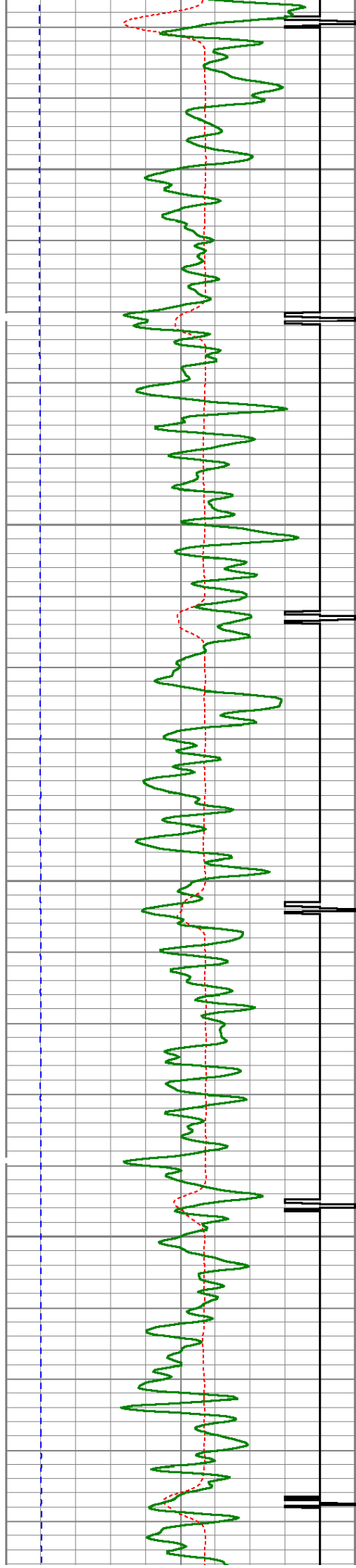
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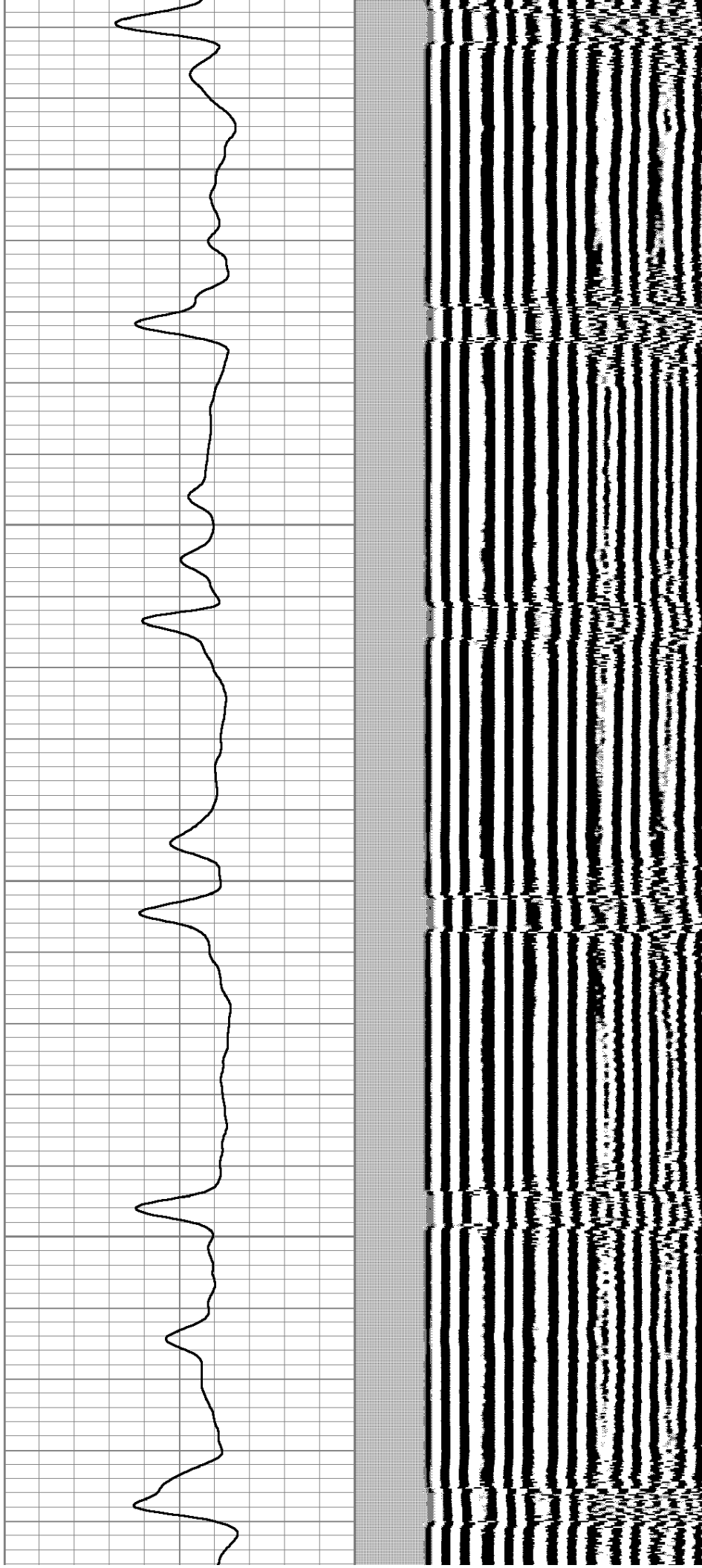


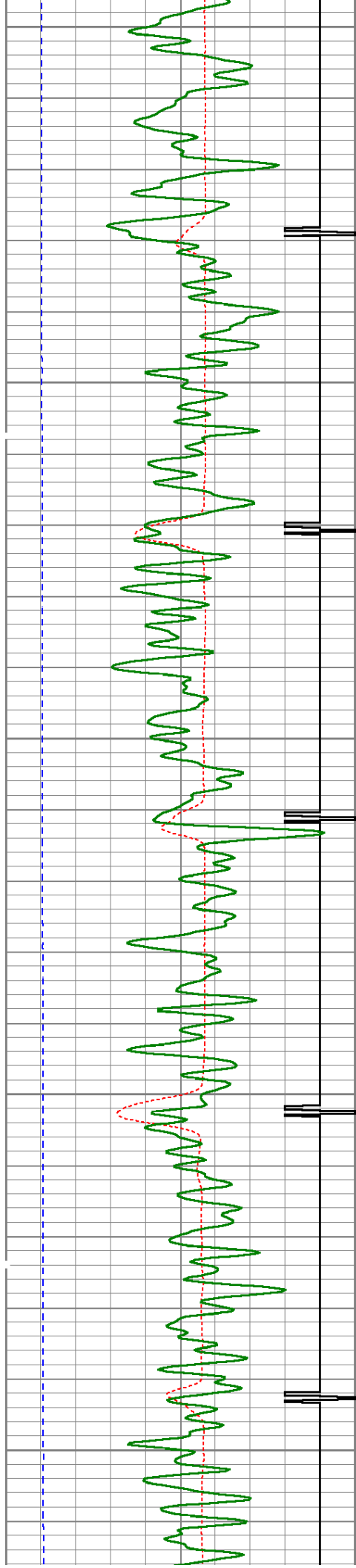
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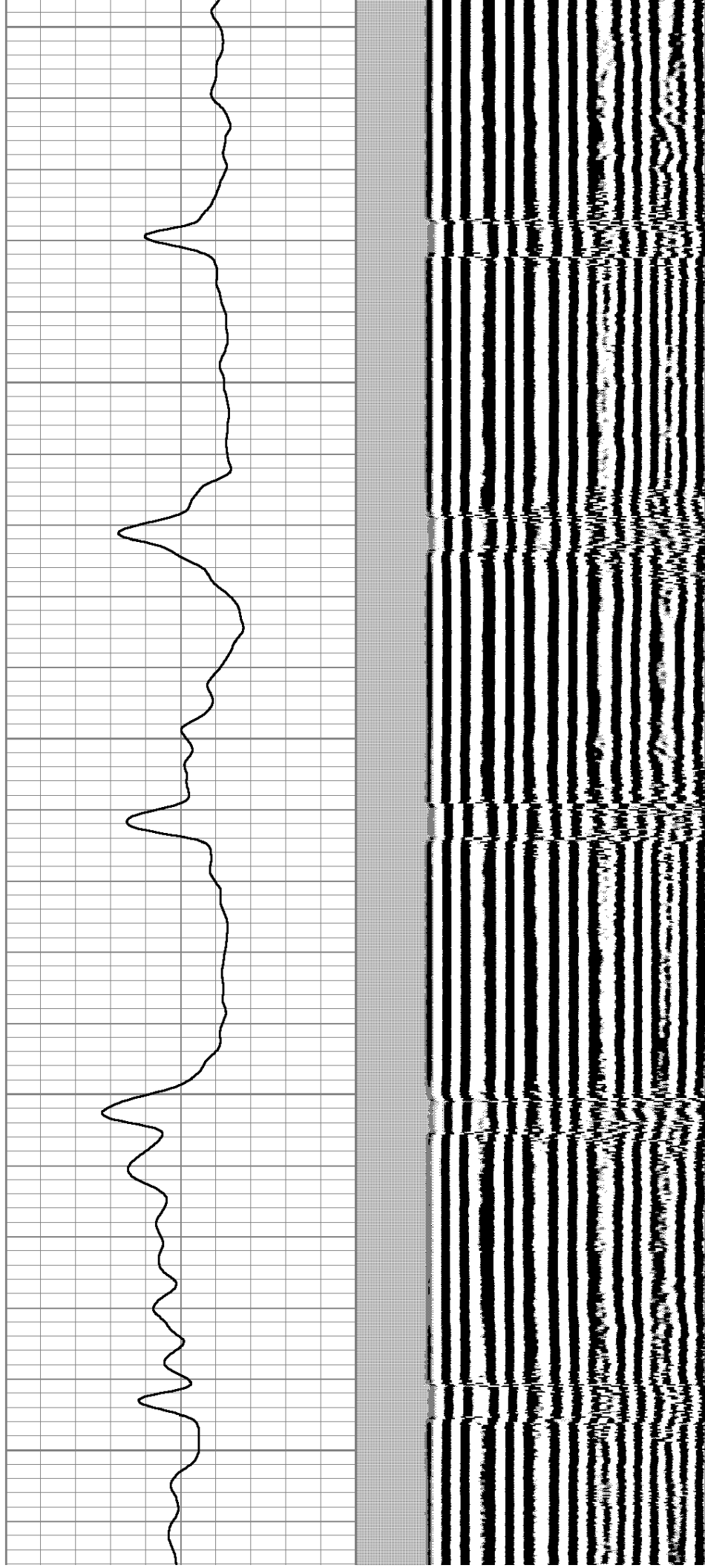
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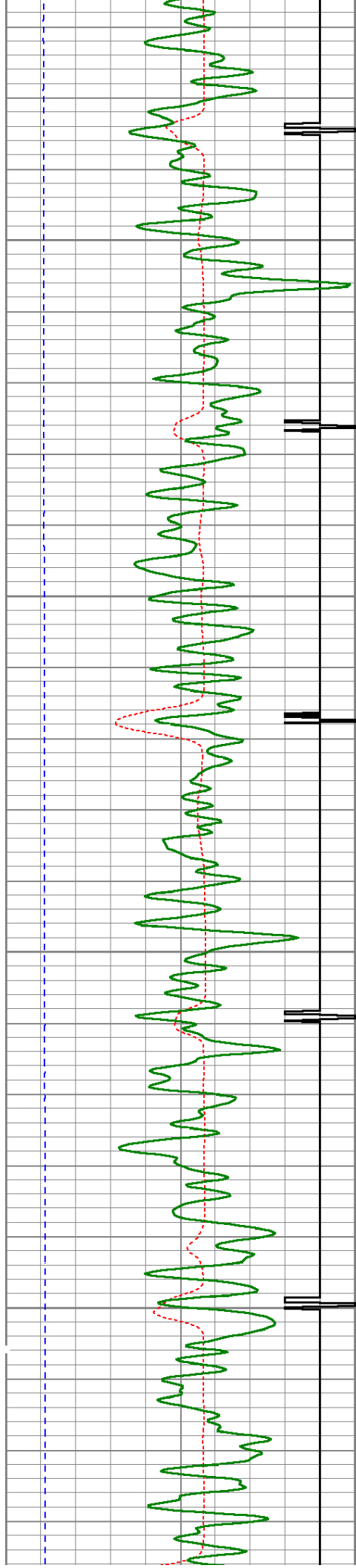
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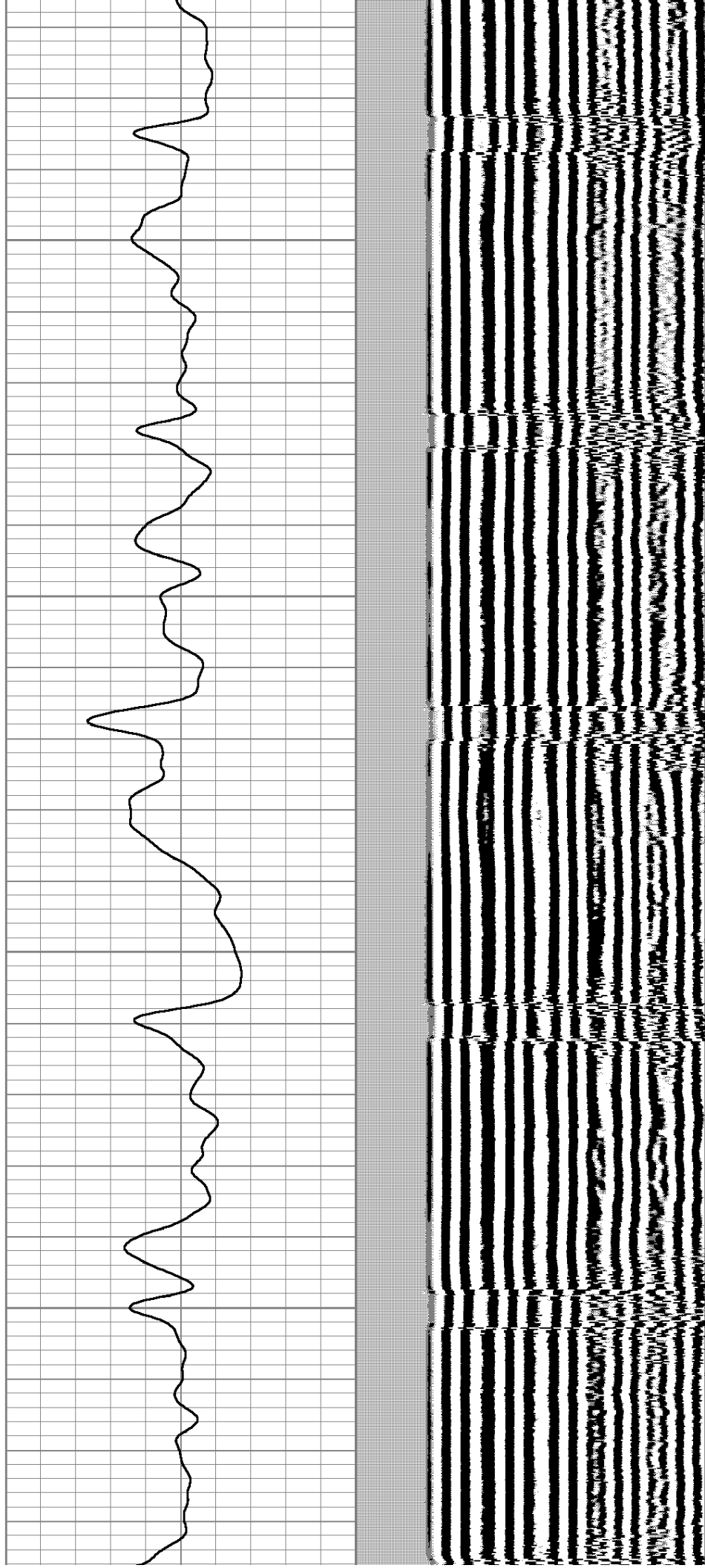


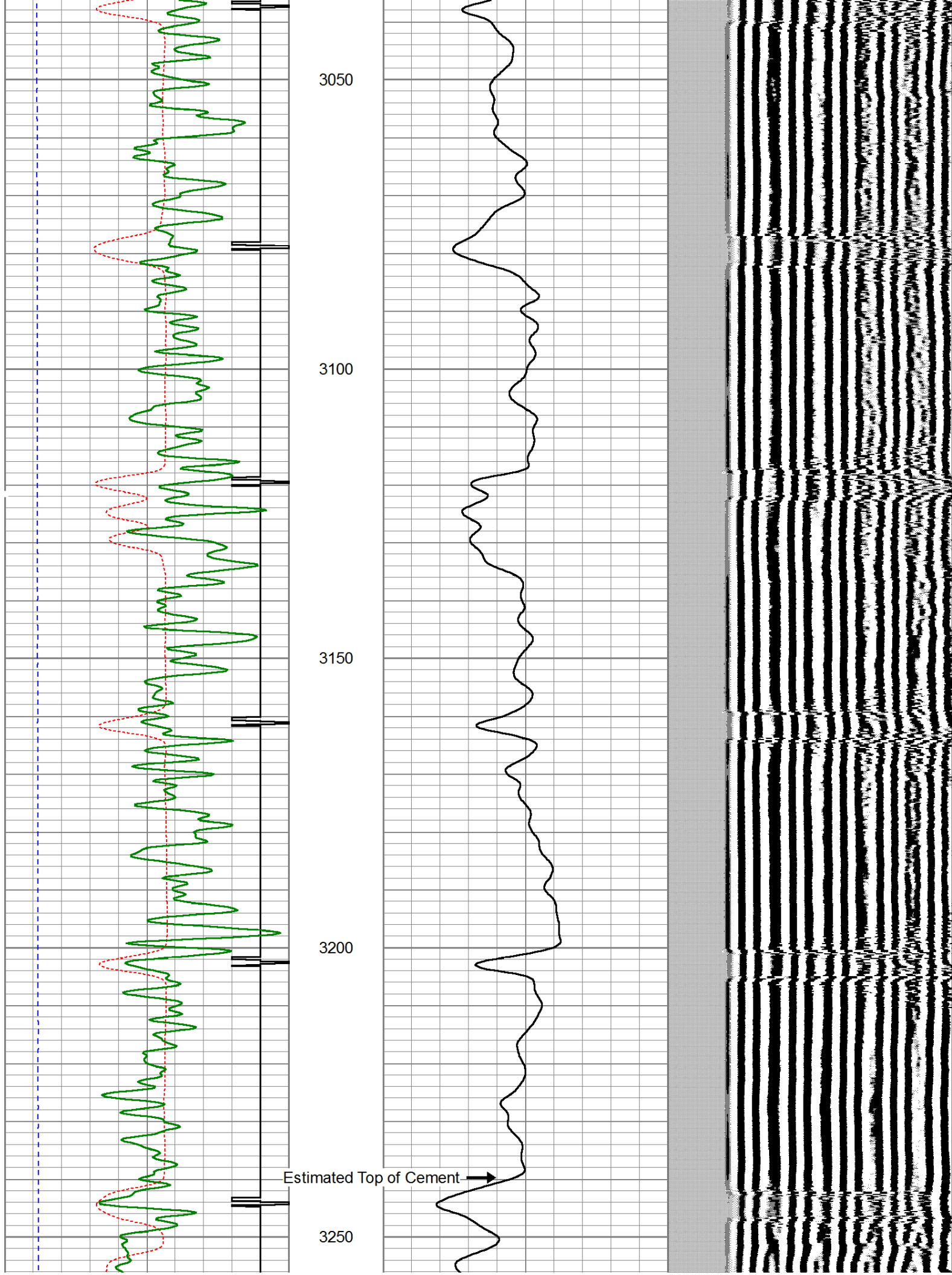
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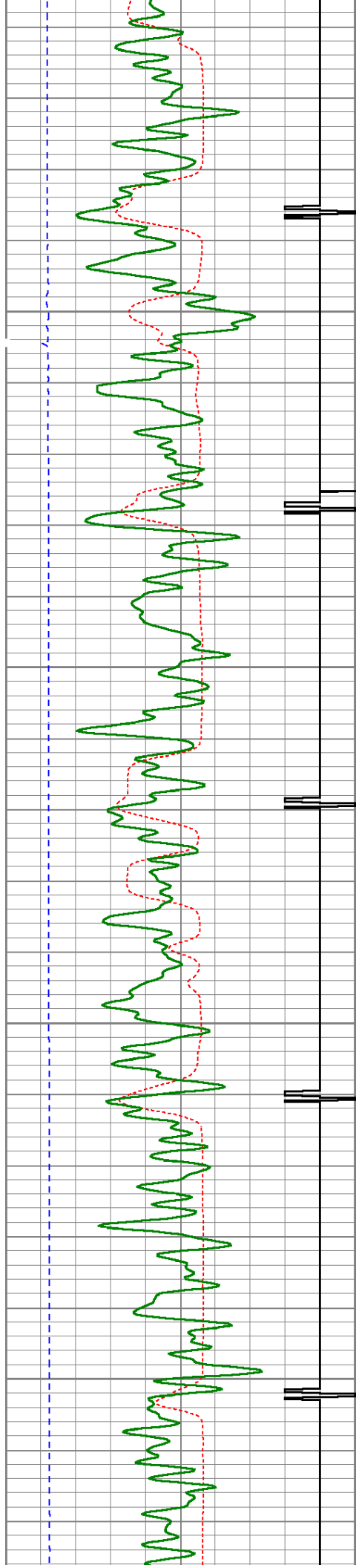
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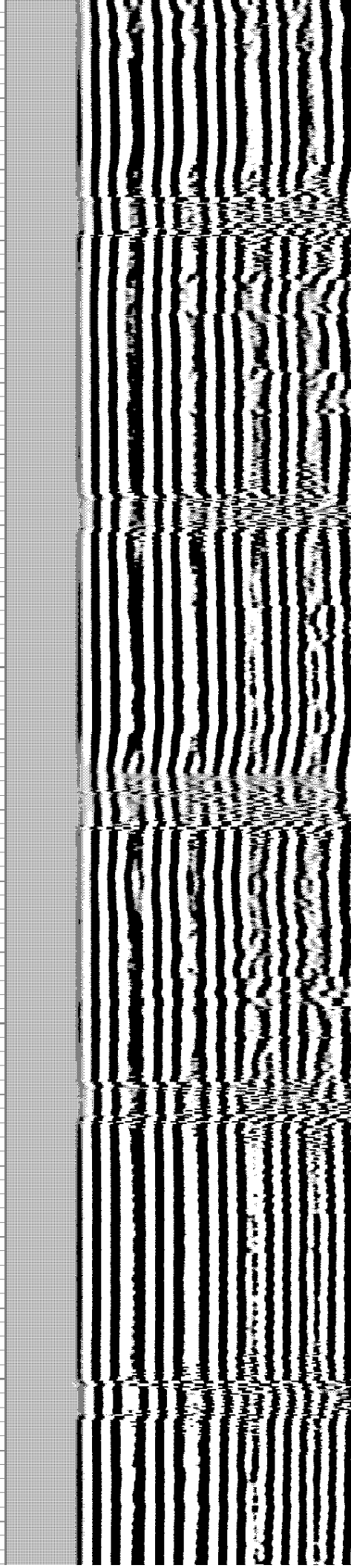
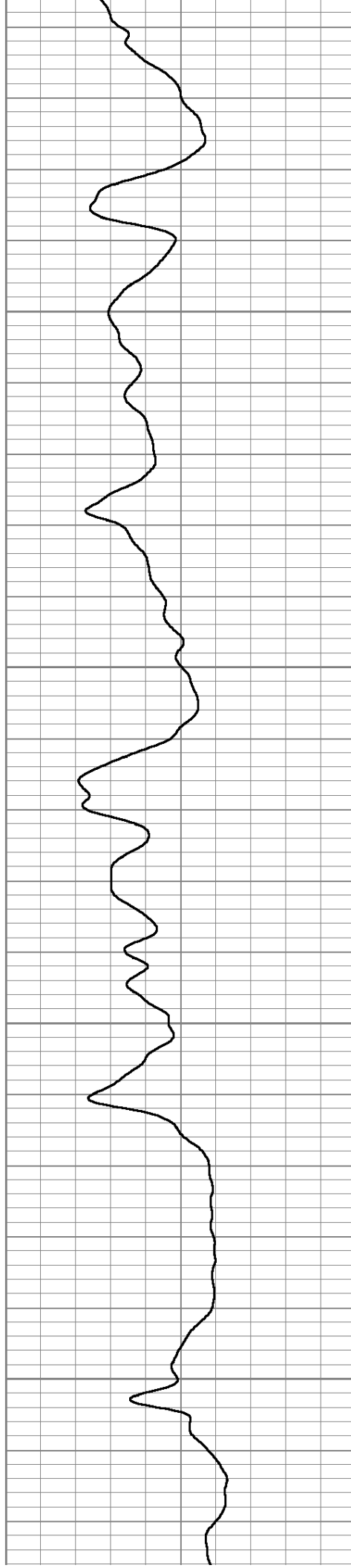


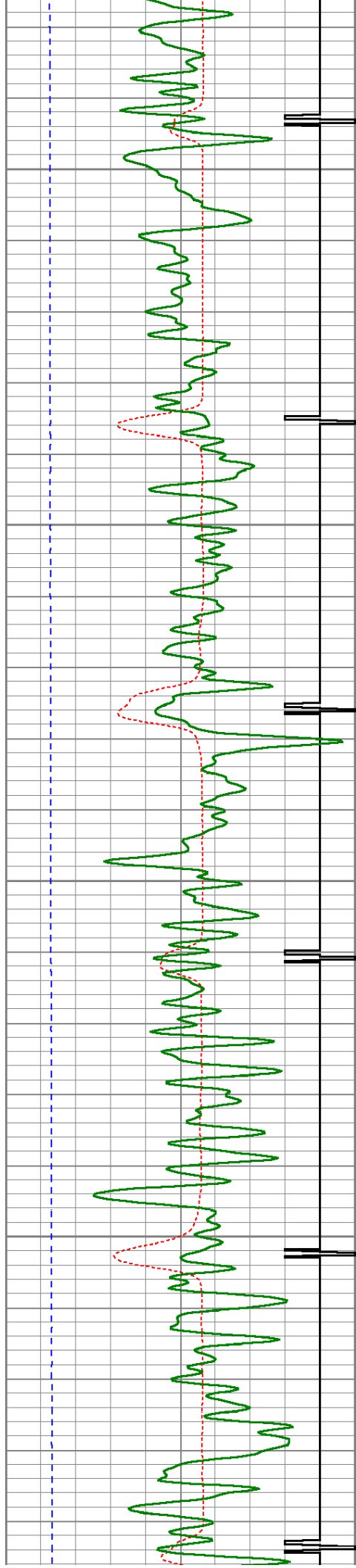
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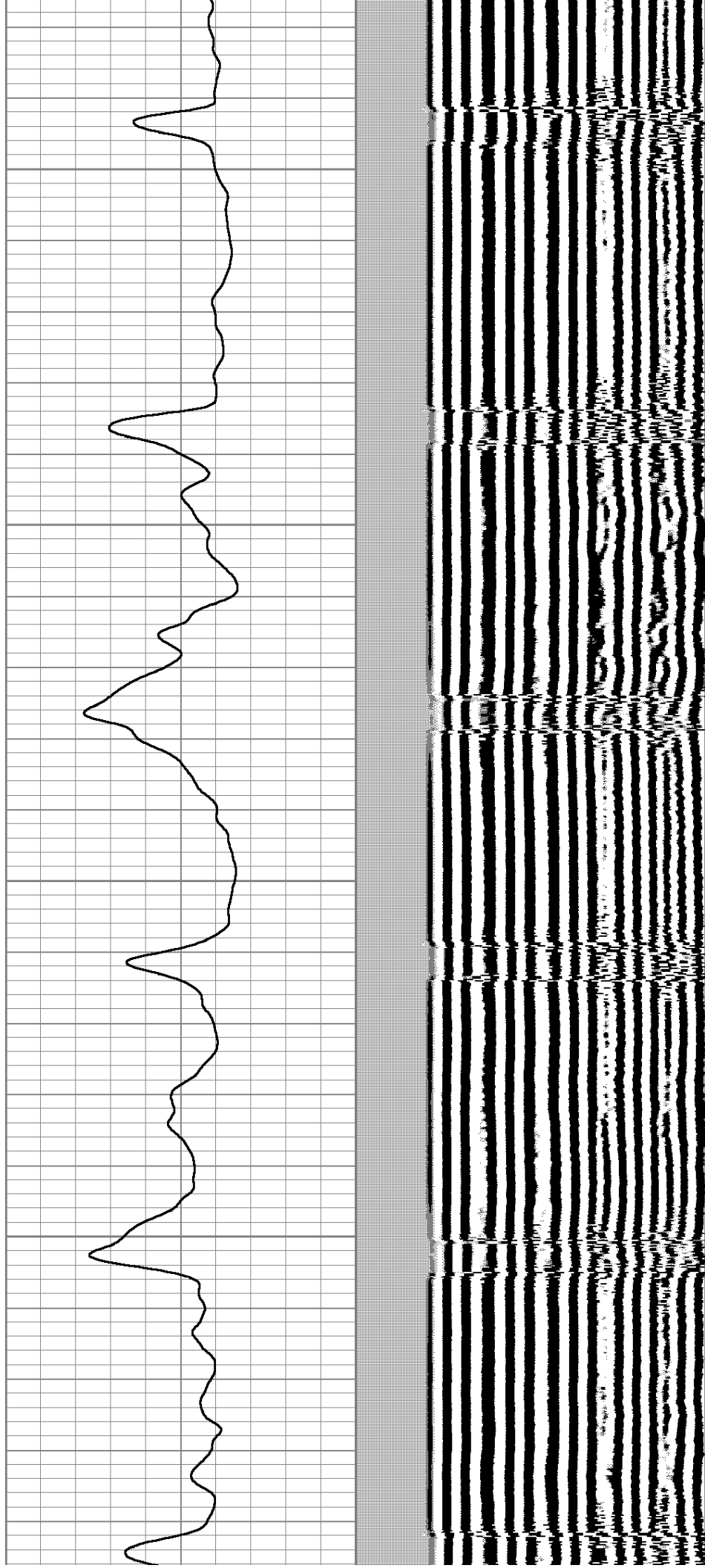


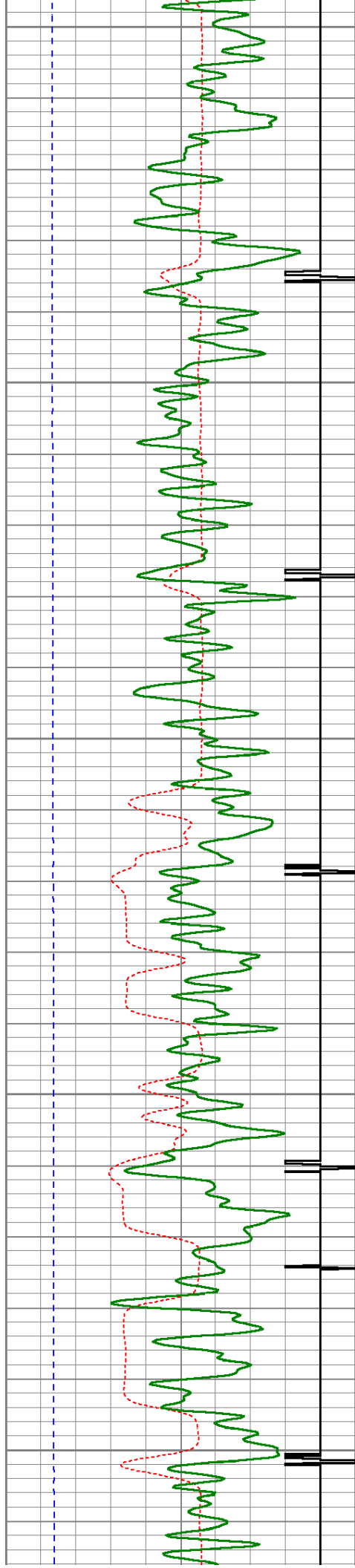
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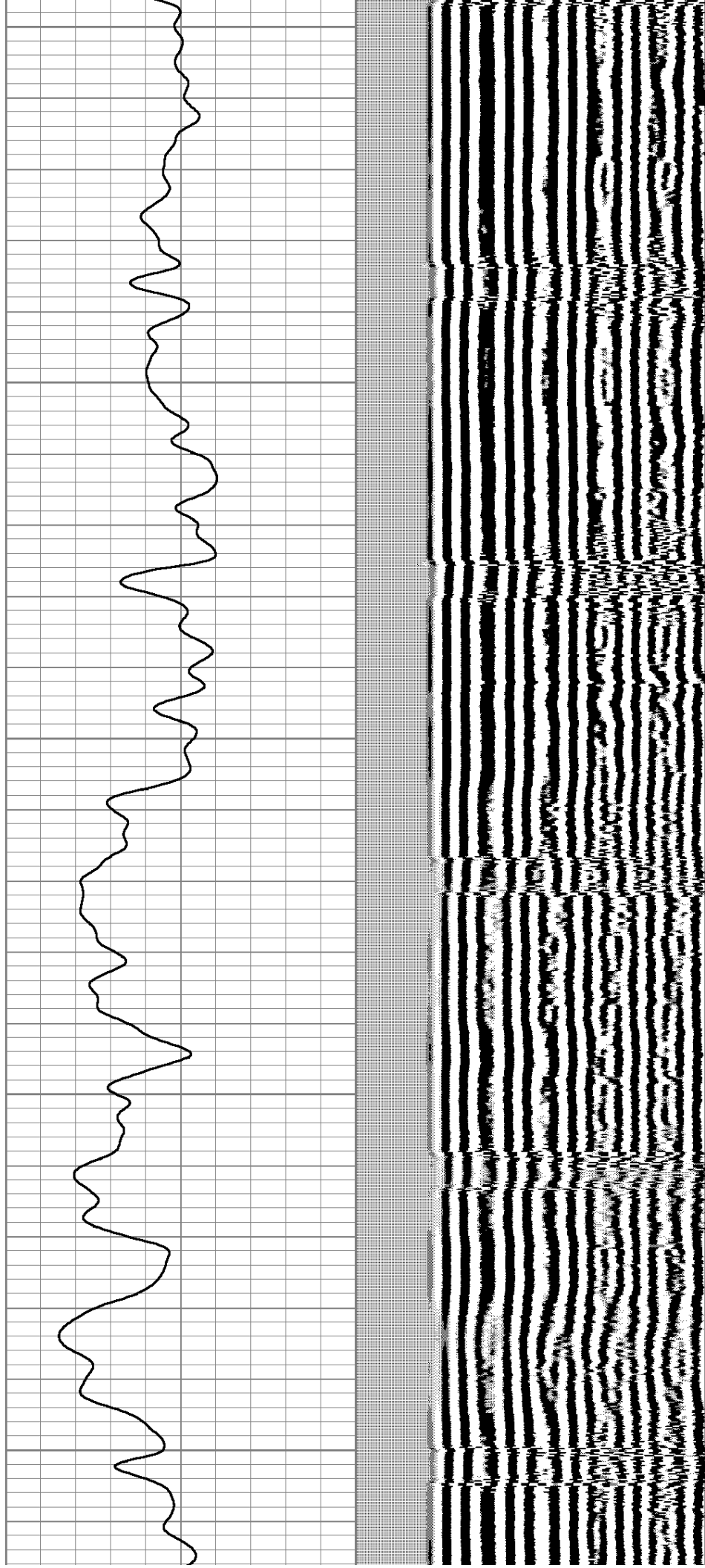
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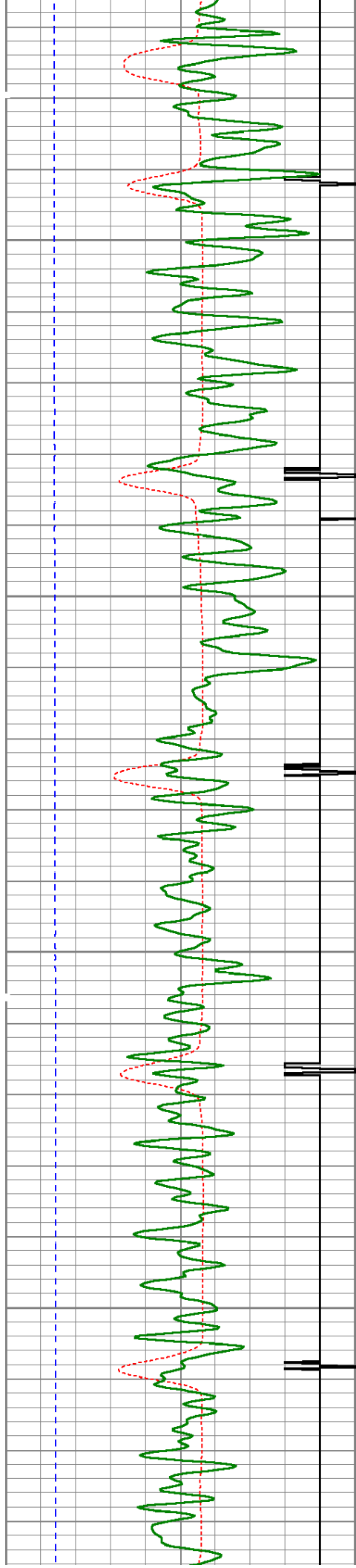
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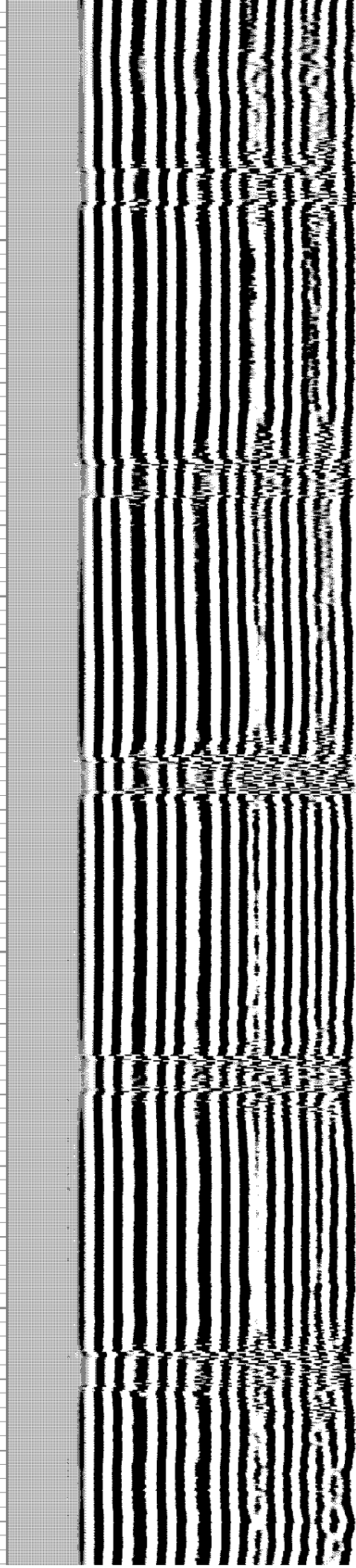
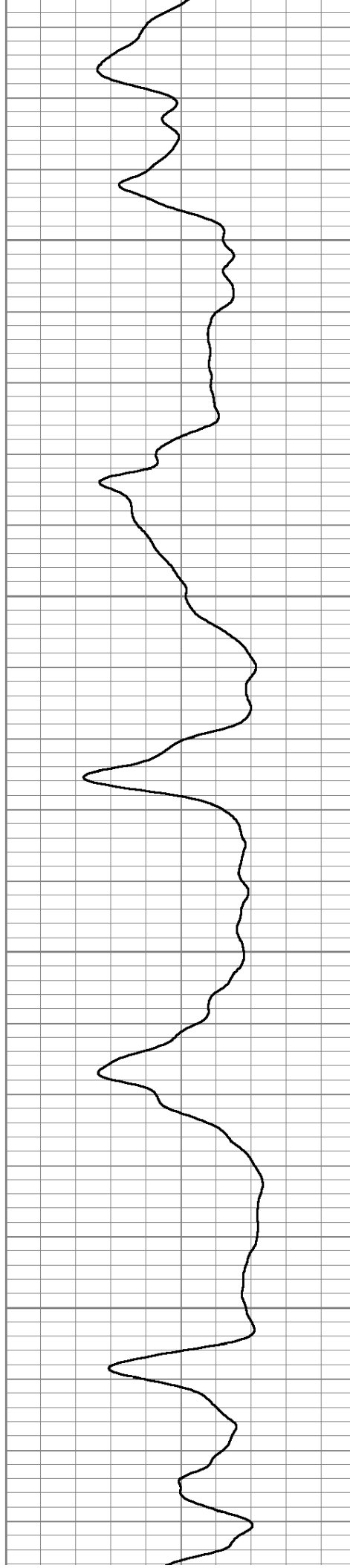


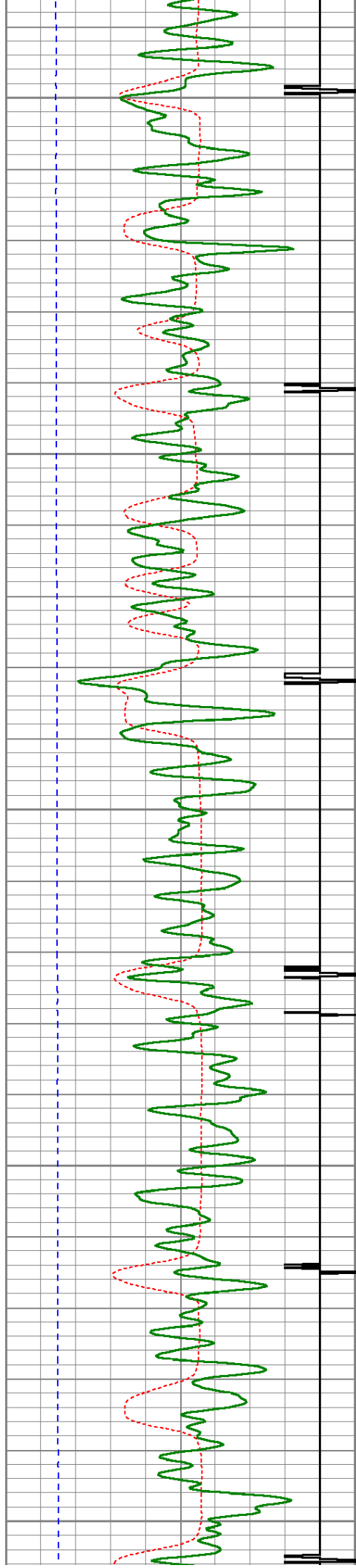
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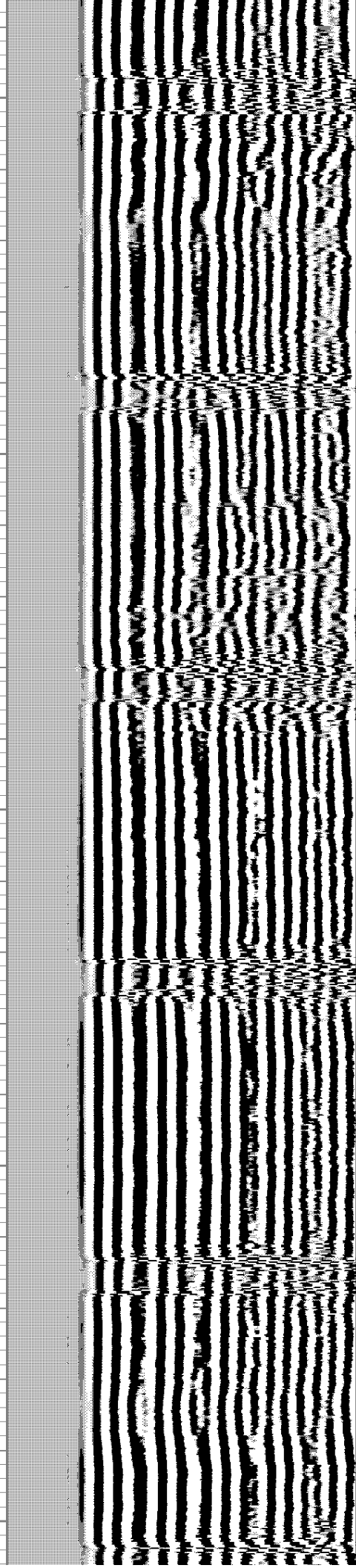
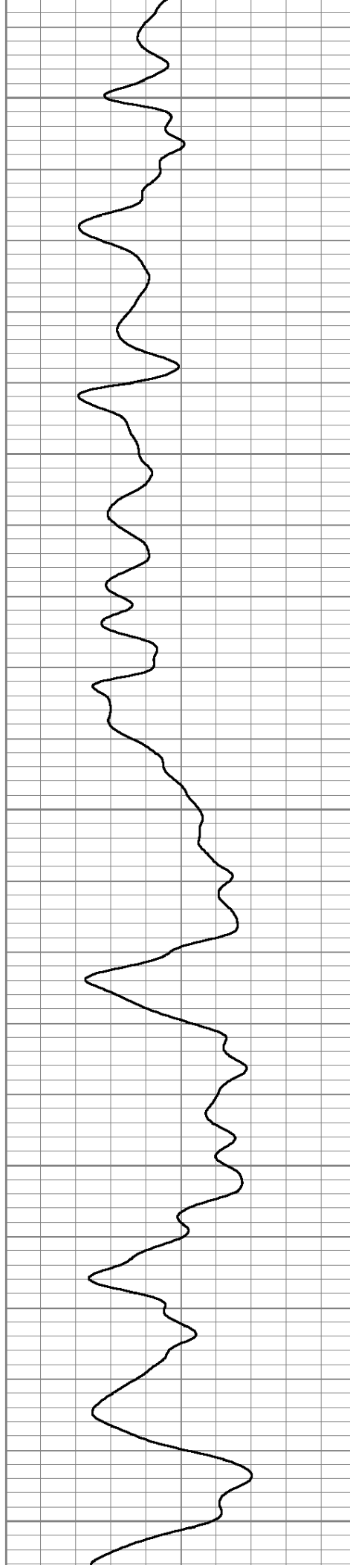
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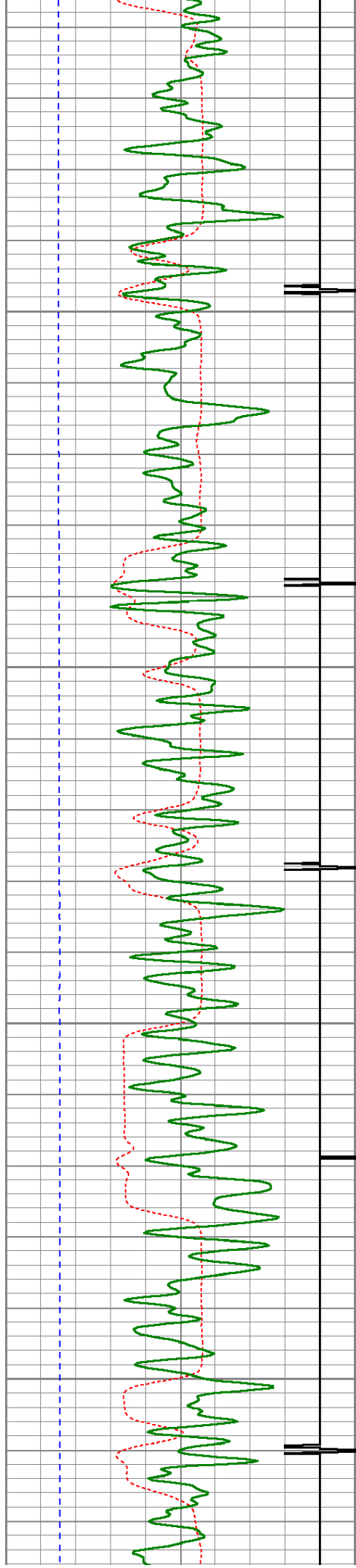
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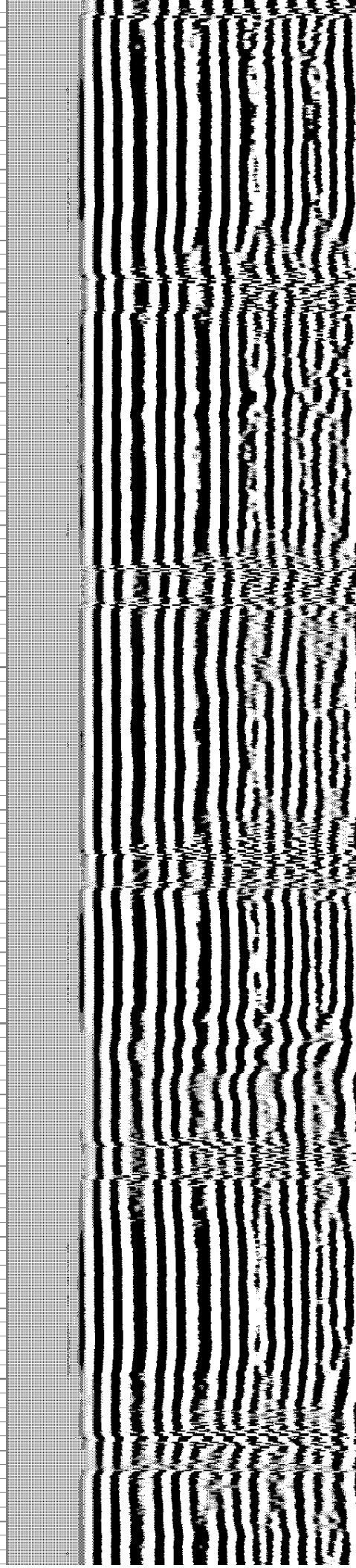
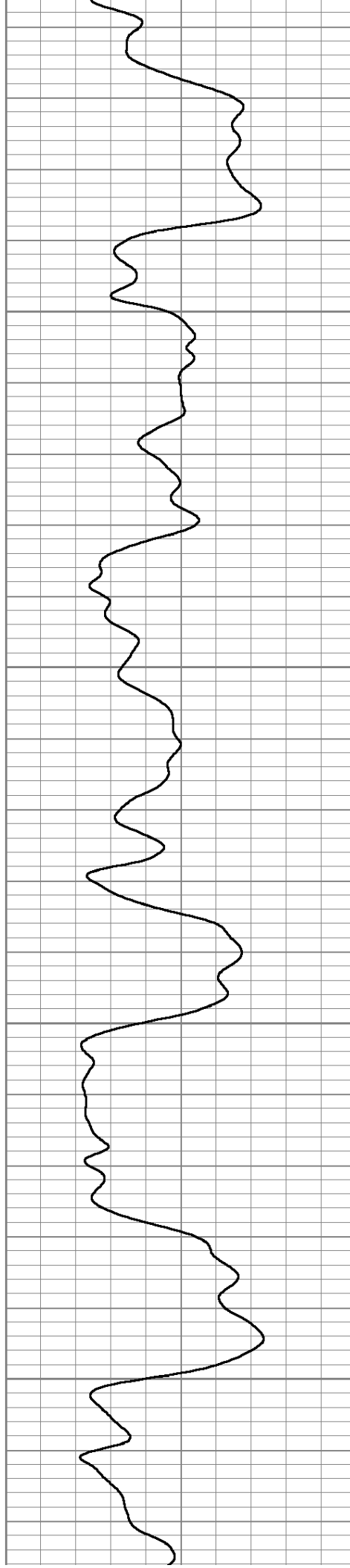


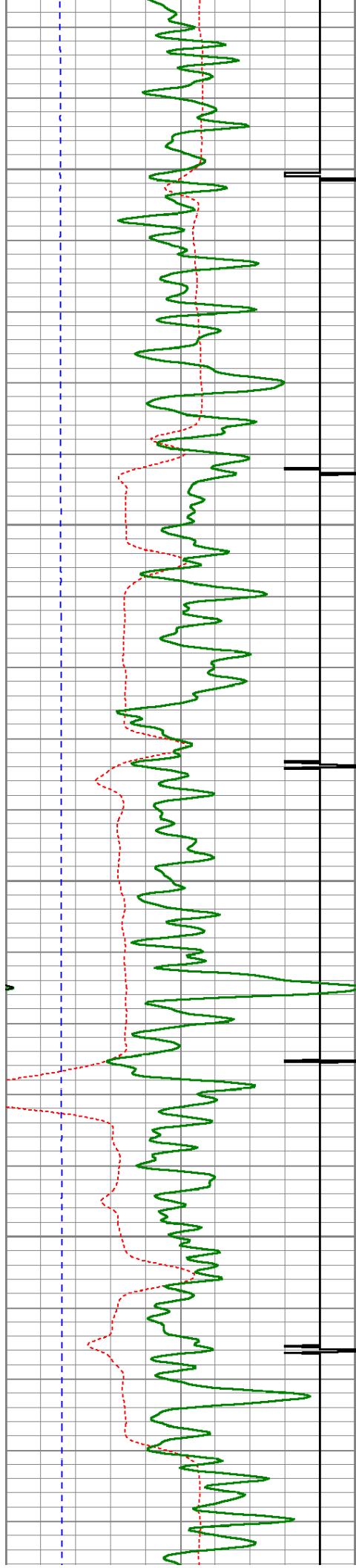
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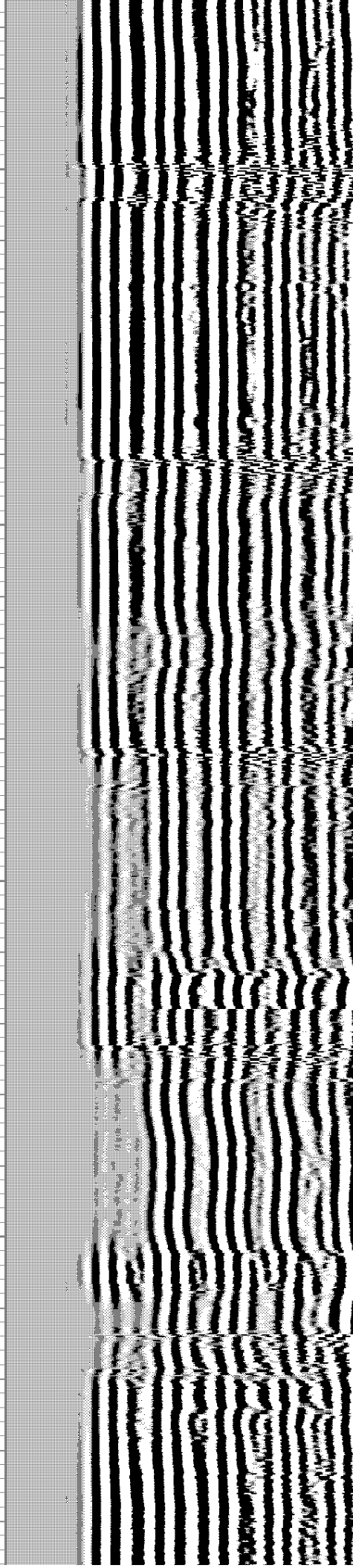
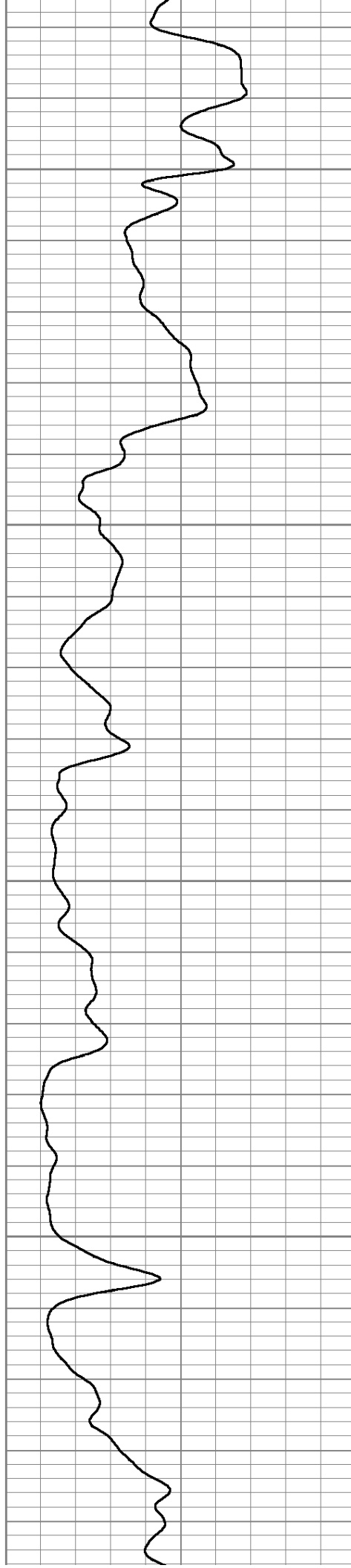


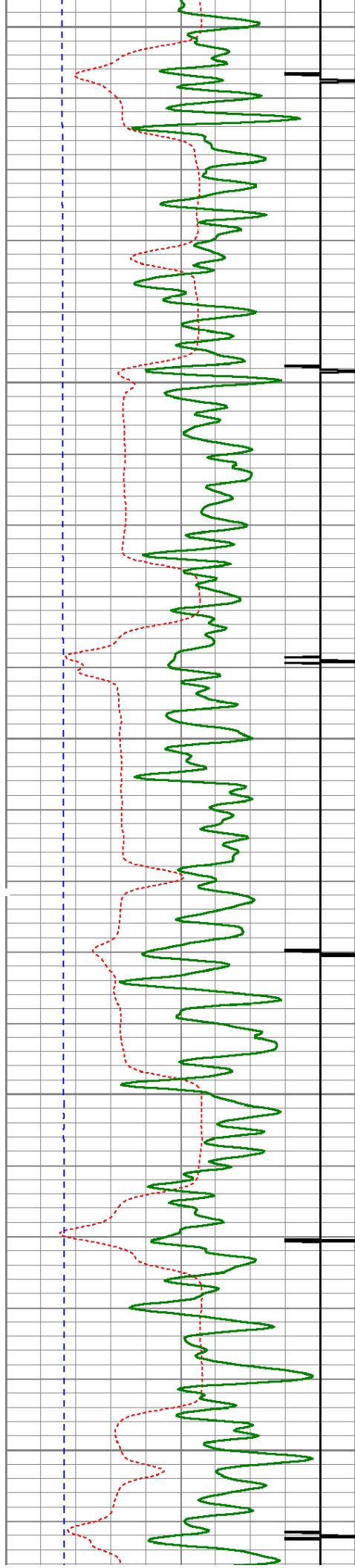
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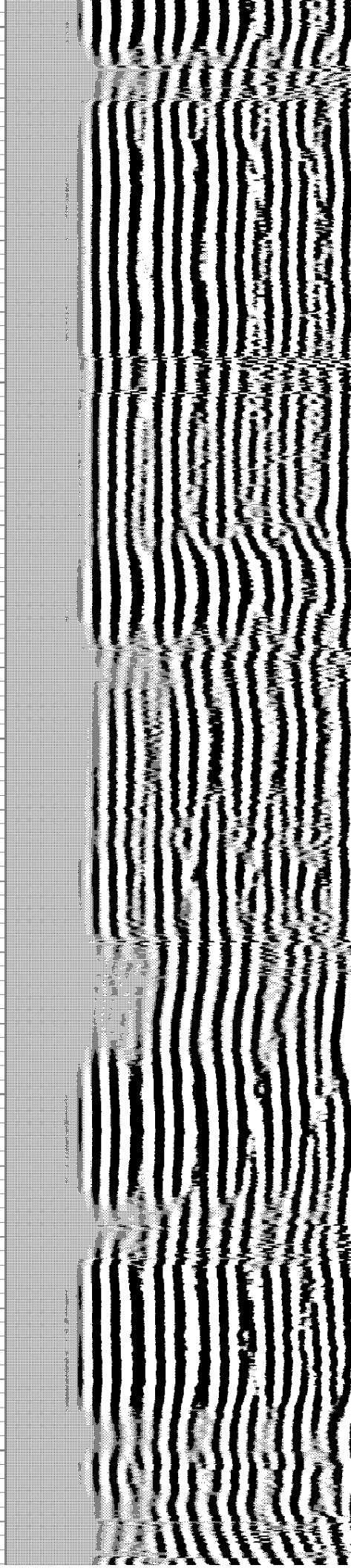
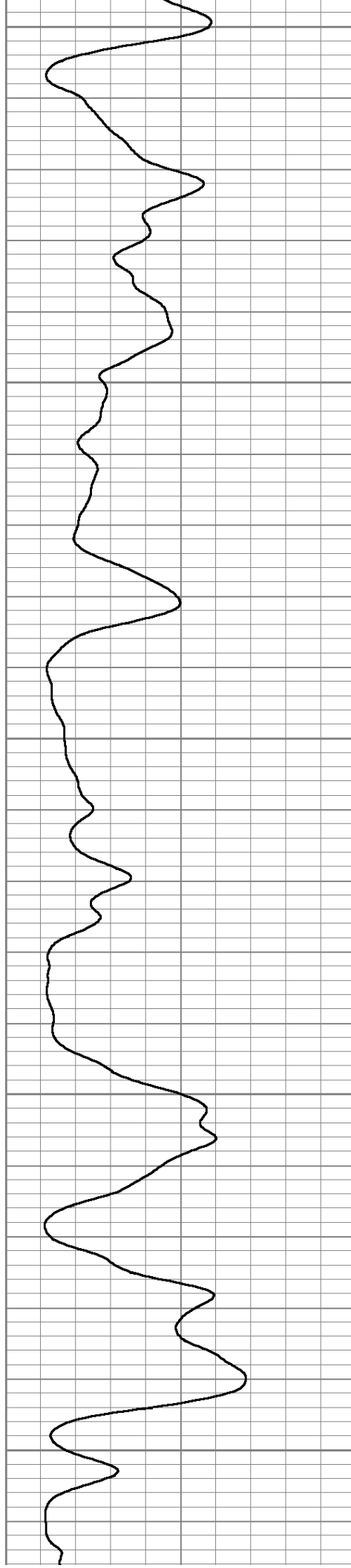
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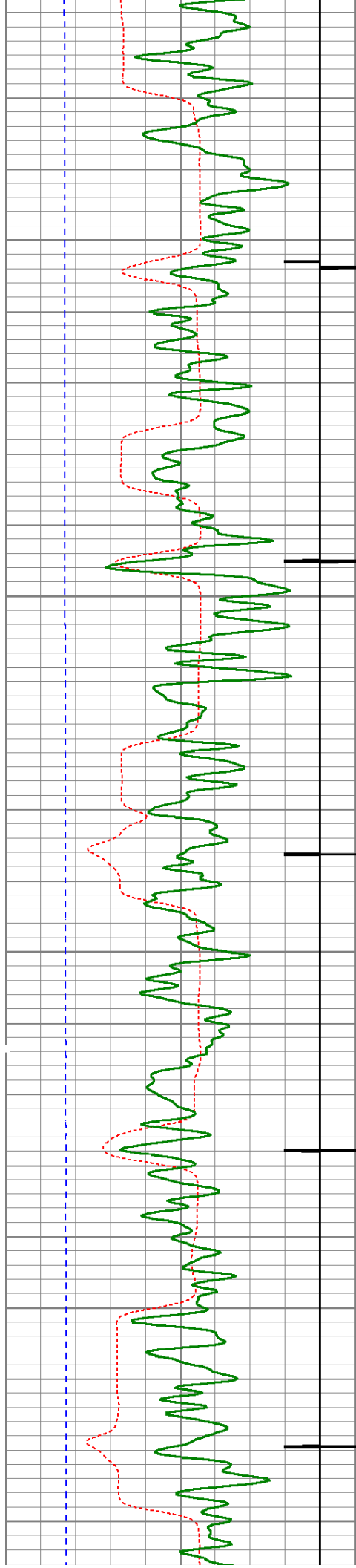
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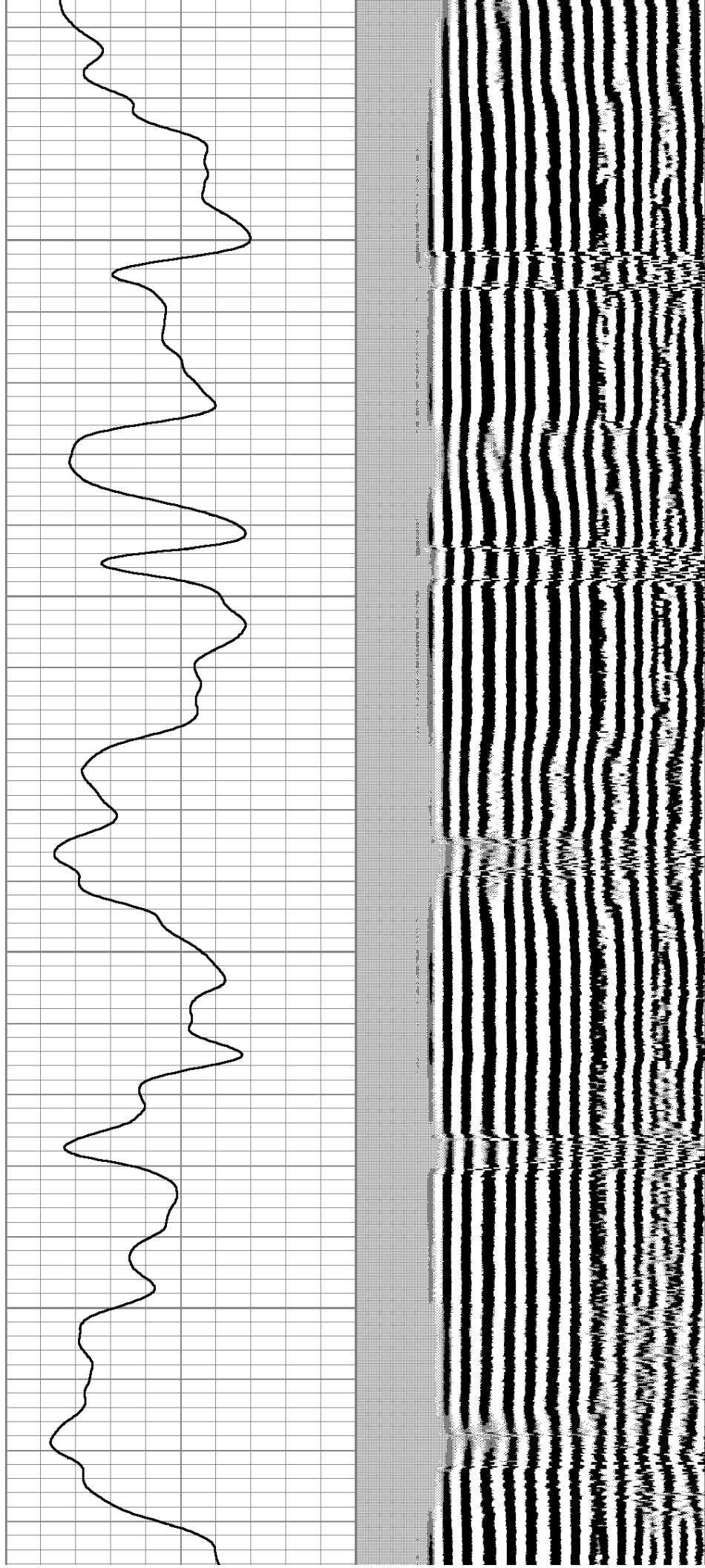


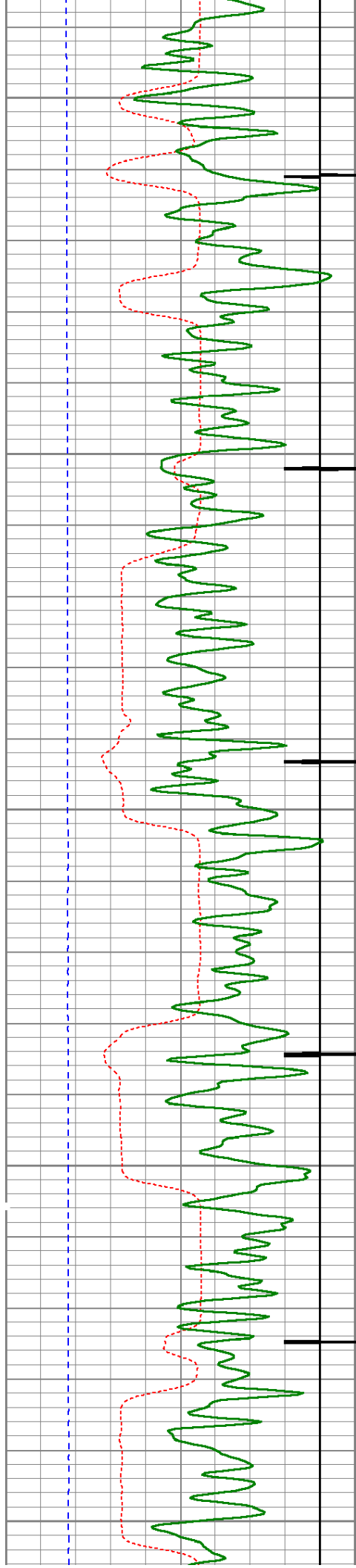
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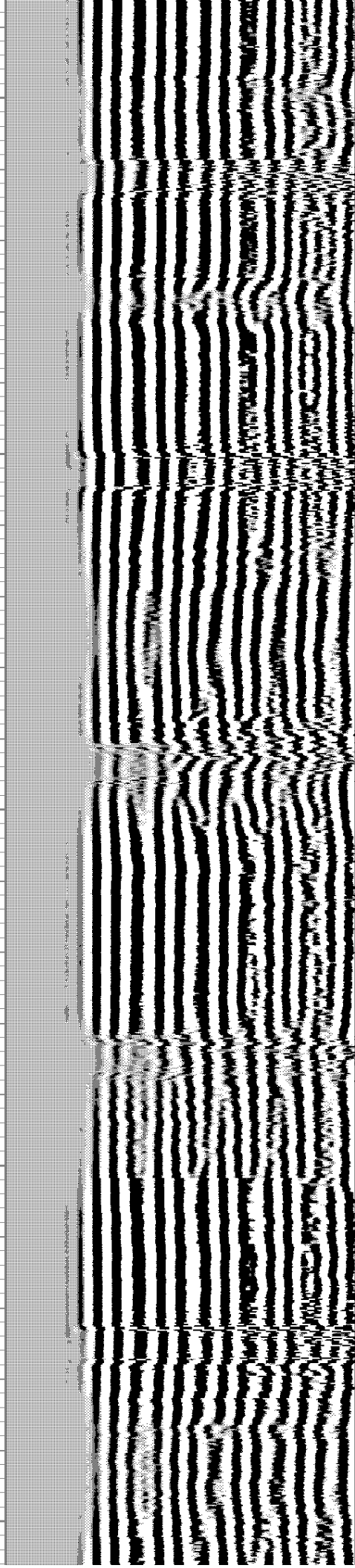
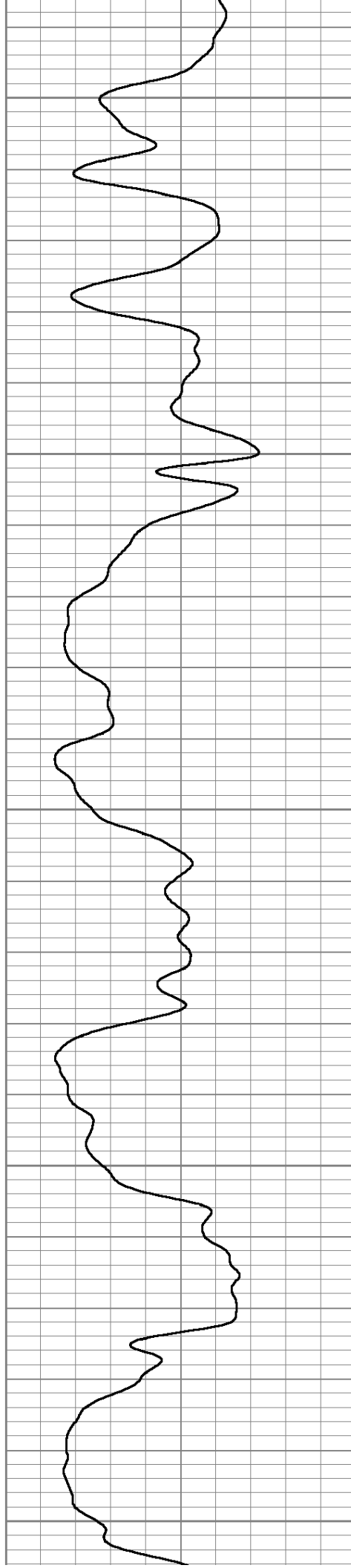
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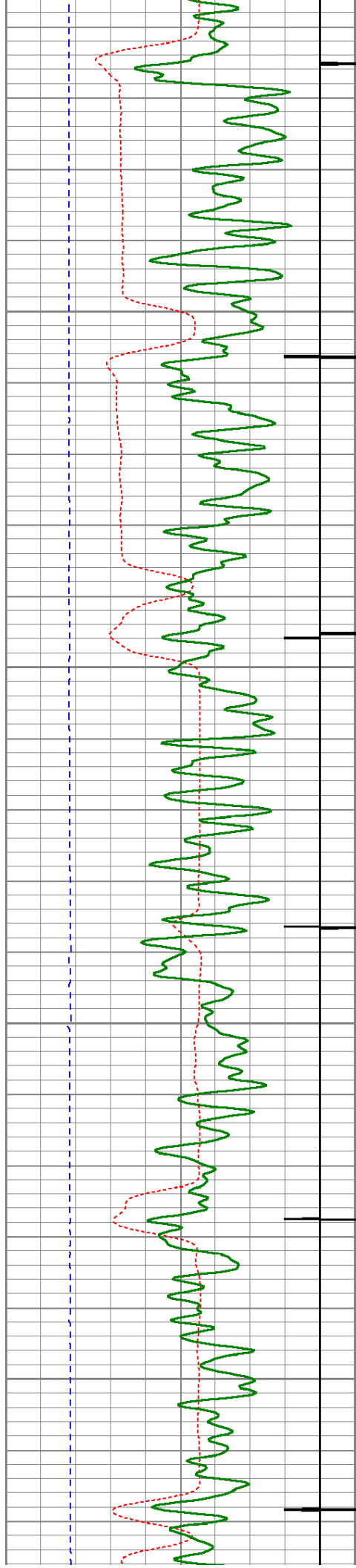
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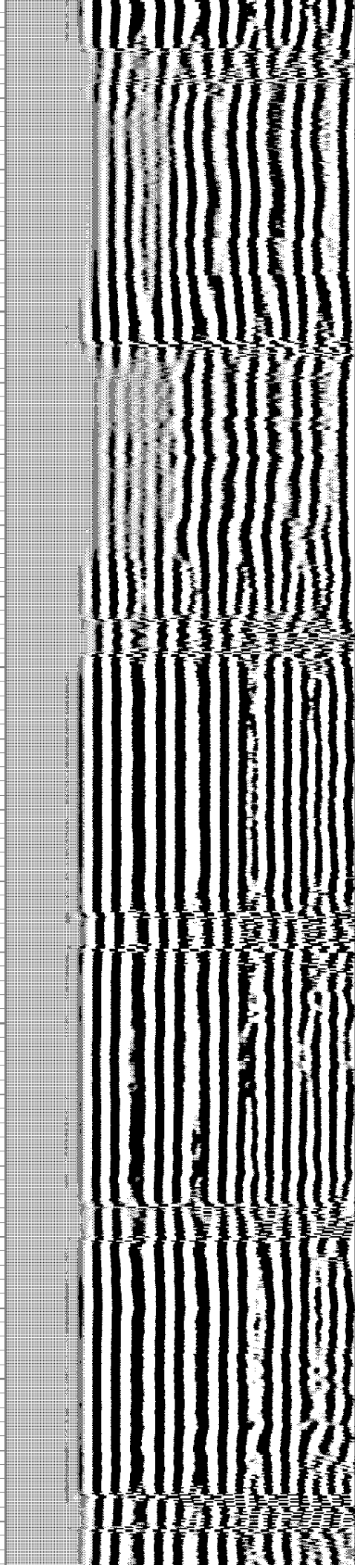
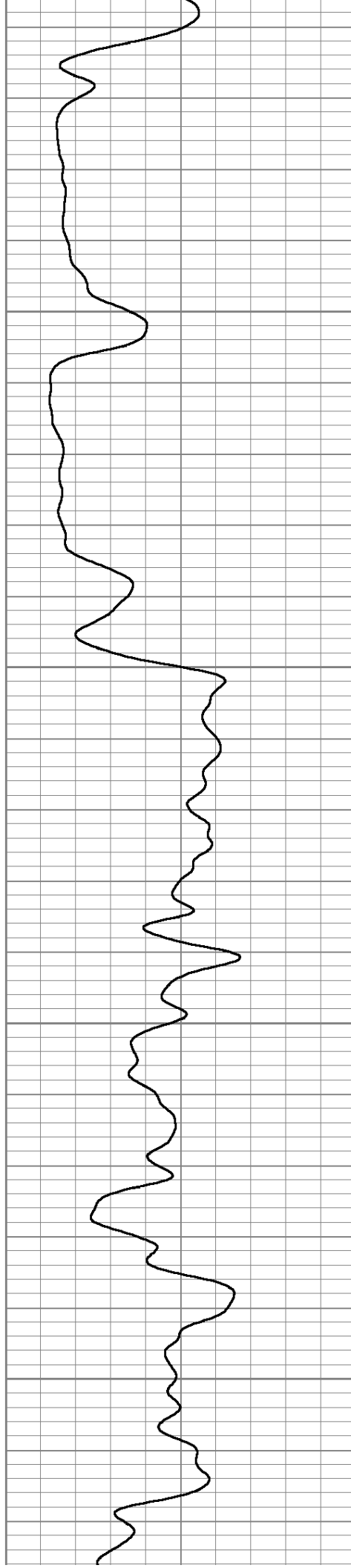


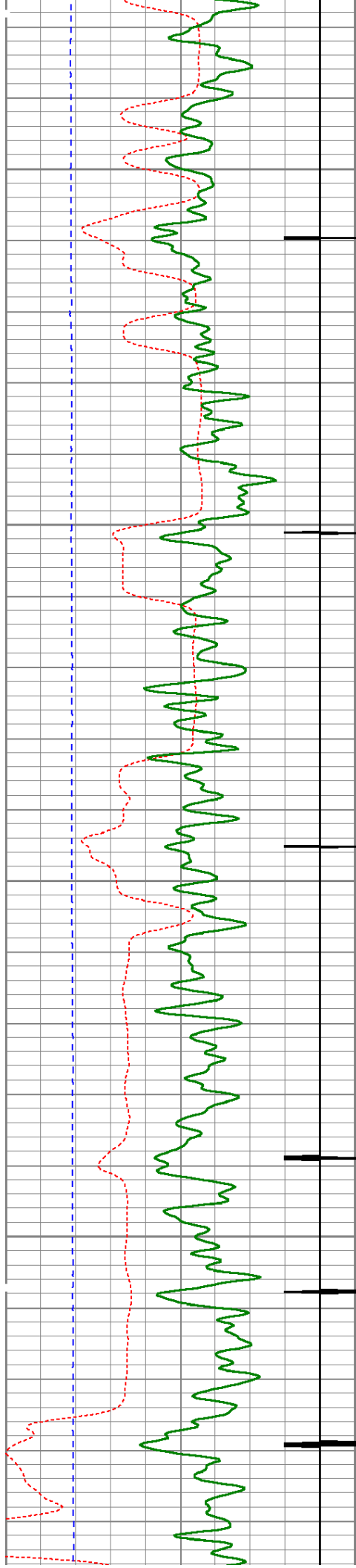
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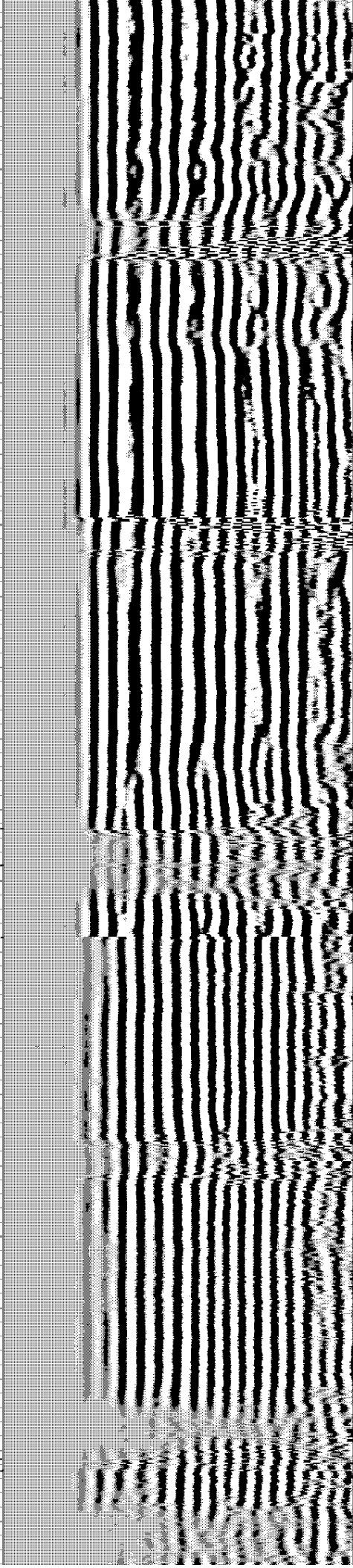
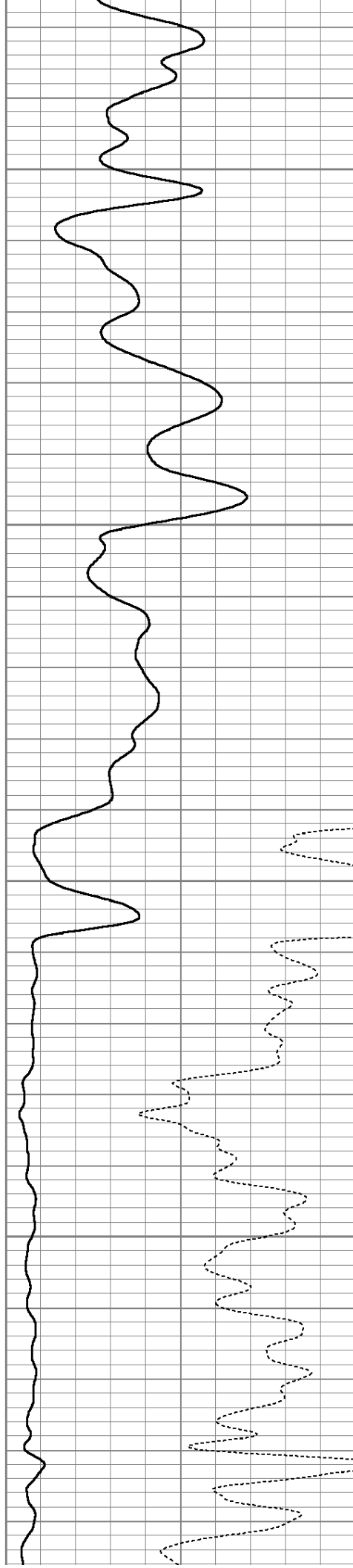


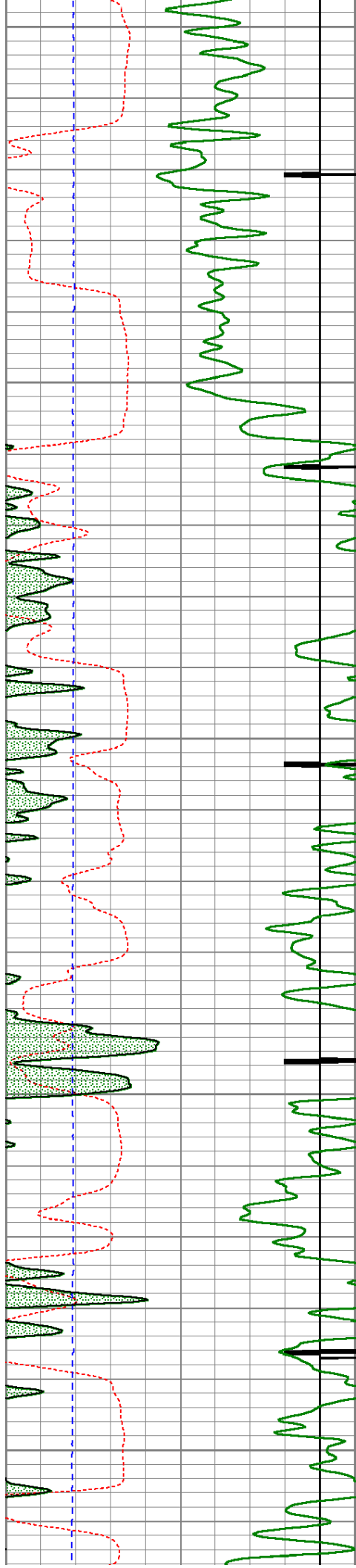
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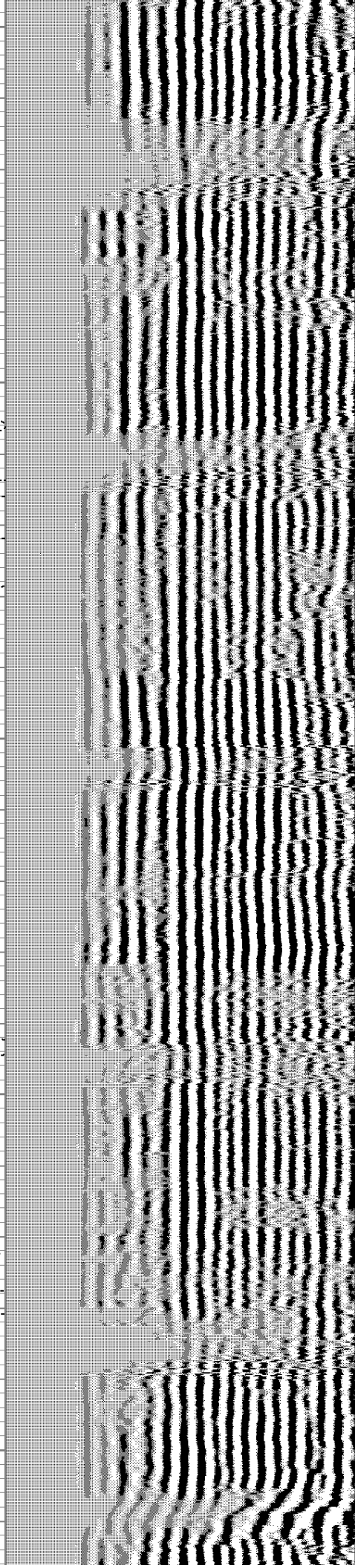
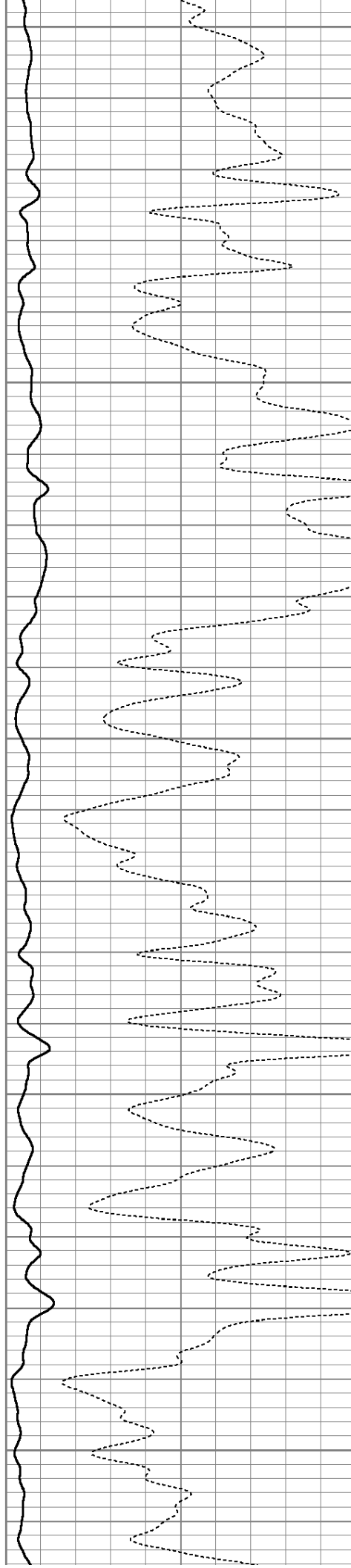
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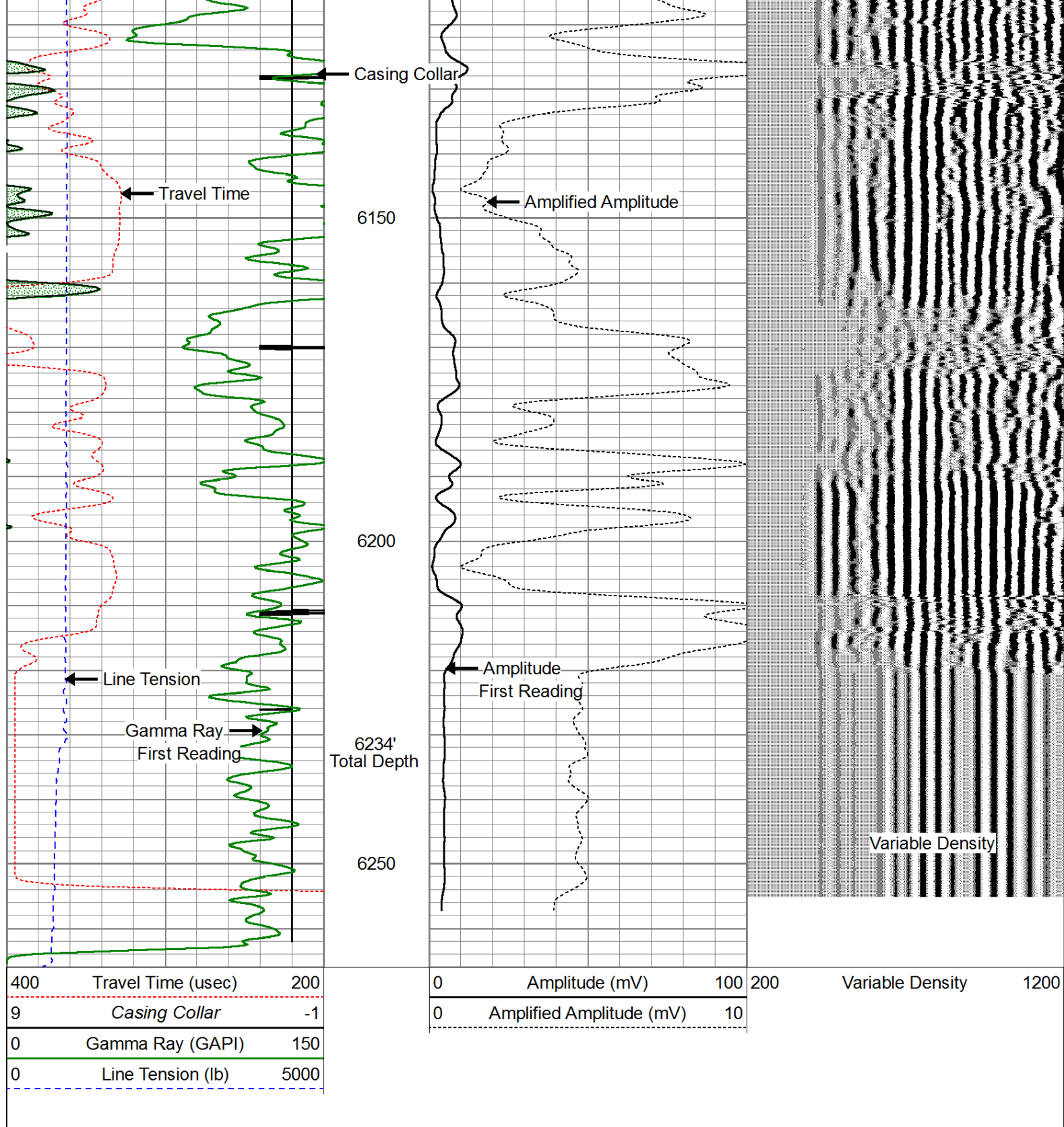
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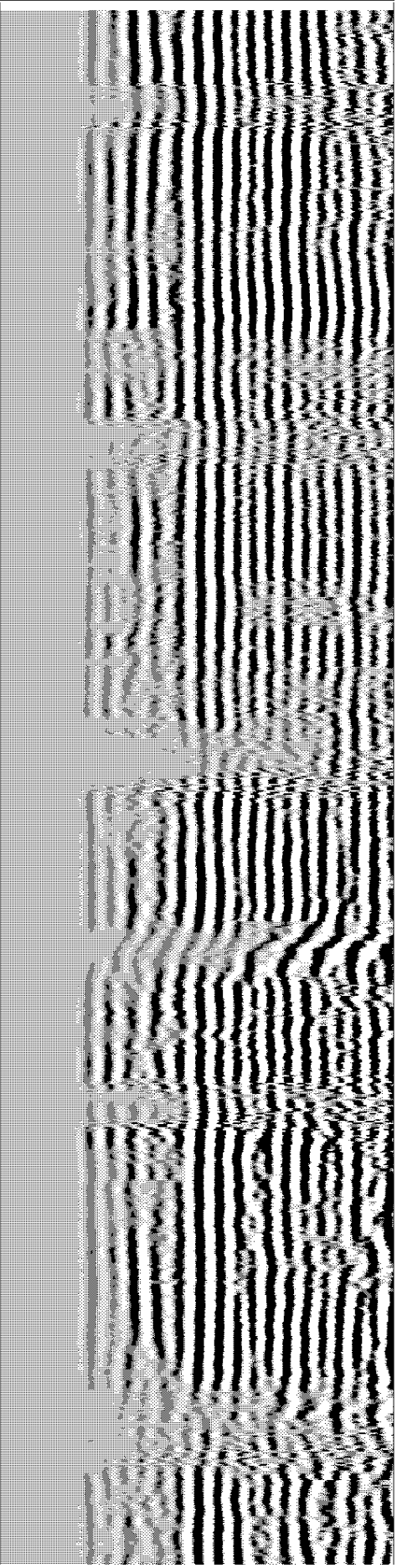
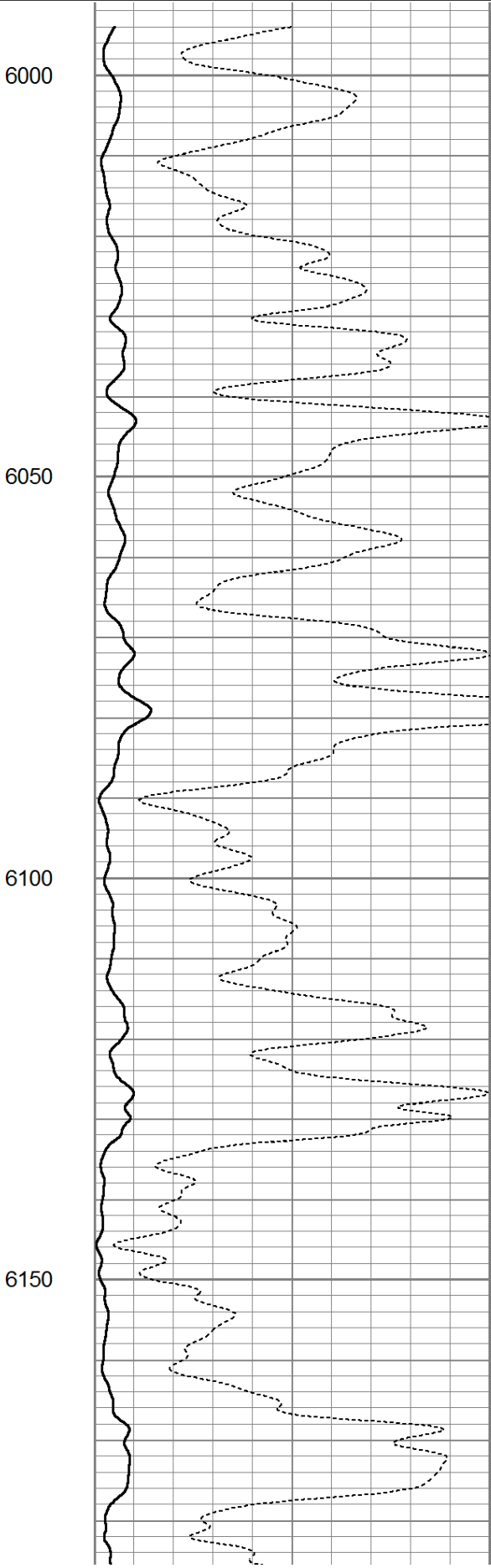
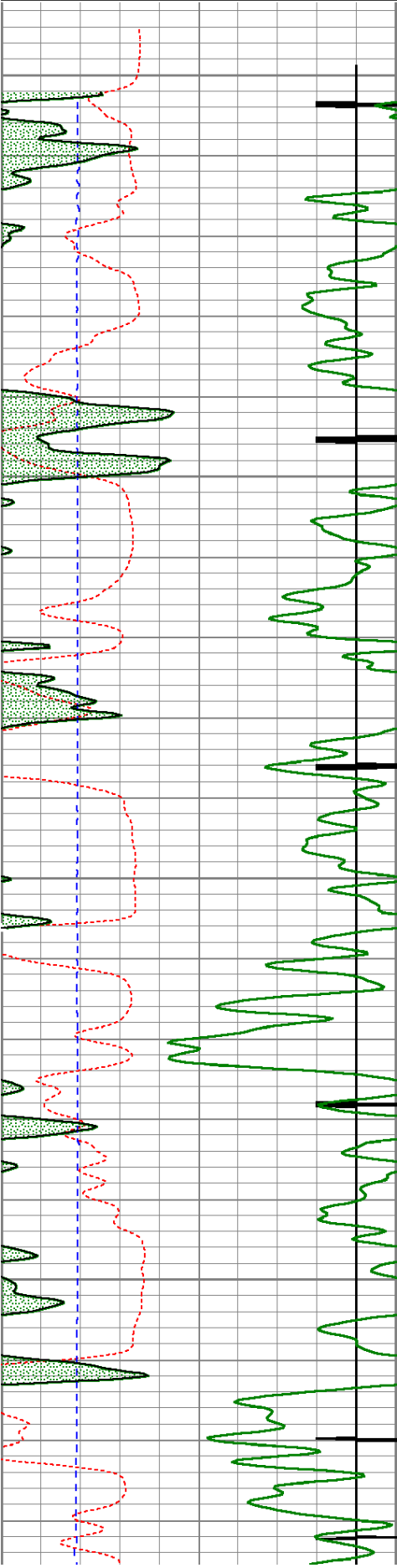
Repeat Section (0PSI)

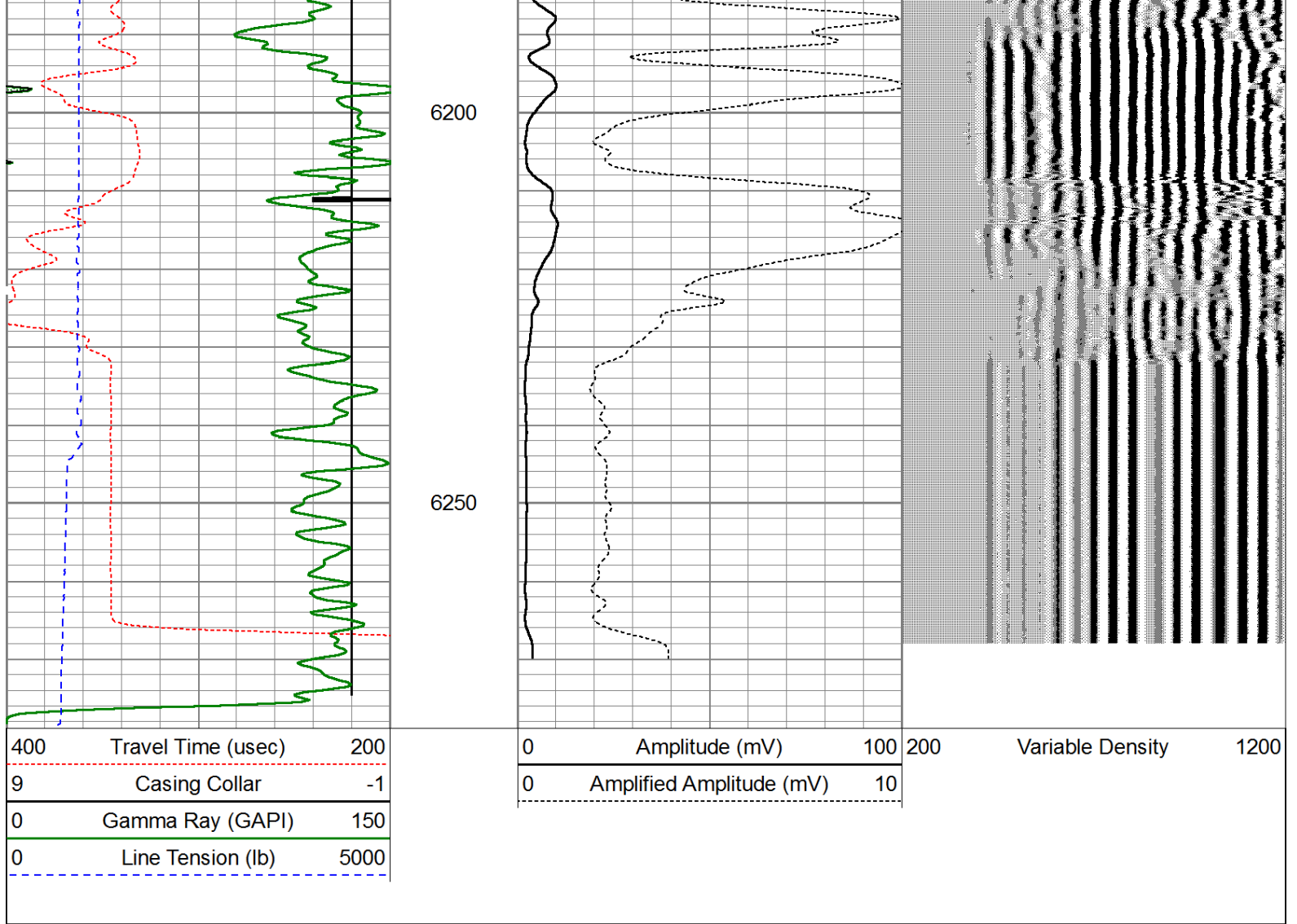
Database File: bonanza creek pronghorn 11-14-18hnb_cbl.db
 Dataset Pathname: pass3
 Presentation Format: cbprobe
 Dataset Creation: Tue Apr 08 09:45:31 2014 by Log SCH 120126
 Charted by: Depth in Feet scaled 1:240

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



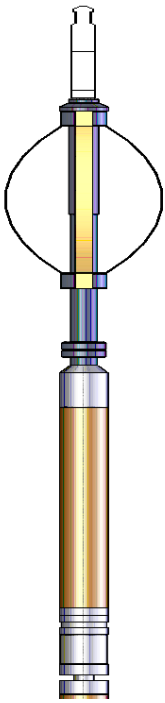


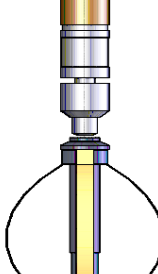
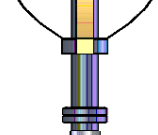
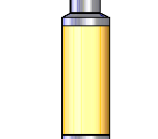
Calibration Report		
Database File:	bonanza creek pronghorn 11-14-18hnb_cbl.db	
Dataset Pathname:	pass4	
Dataset Creation:	Tue Apr 08 09:56:06 2014 by Log SCH 120126	
Gamma Ray Calibration Report		
Serial Number:	111111	
Tool Model:	Probe275	
Performed:	Tue Apr 08 09:42:50 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8500	GAPI/cps
Segmented Cement Bond Log Calibration Report		
Serial Number:	101254	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	4199.108	ft
Master Calibration, performed Sat Mar 22 15:06:33 2014:		
Raw (v)	Calibrated (mv)	Results

	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.046	0.616	1.000	62.165	112.870	3.946
CAL	0.007	0.864				
5'	0.007	0.568	1.000	62.165	109.027	0.196
SUM						
S1	0.002	0.662	0.000	100.000	151.505	-0.351
S2	0.010	0.587	0.000	100.000	173.434	-1.766
S3	0.007	0.523	0.000	100.000	193.770	-1.386
S4	0.008	0.502	0.000	100.000	202.402	-1.552
S5	0.007	0.553	0.000	100.000	183.422	-1.352
S6	0.007	0.635	0.000	100.000	159.241	-1.174
S7	0.007	0.698	0.000	100.000	144.720	-1.051
S8	0.007	0.698	0.000	100.000	144.825	-1.052

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	0.007	0.864	1.000	0.000

Air Zero Calibration, performed Mon Oct 10 09:41:05 2005:						
	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

WVF3FT	11.84		RBT-Probe (101254) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
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					
GR	2.54		GR-Probe275 (111111) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
Dataset: bonanza creek pronghorn 11-14-18hnb_cbl.db: field/well/run1/pass4 Total Length: 20.28 ft Total Weight: 197.00 lb O.D. 2.75 in						