



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

Company	Bonanza Creek Energy	Company	Bonanza Creek Energy
Well	State Antelope 41-44-30 HNB	Well	State Antelope 41-44-30 HNB
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:		API # : 05-123-37406	Other Services
SEC 30 TWP 5N RGE 62W		NENE	NONE
Permanent Datum	Ground Level	Elevation	4662'
Log Measured From	Kelly Bushing at 15'		
Drilling Measured From	Kelly Bushing		
Date	05-July-2013		
Run Number	1		
Depth Driller	10,915'		
Depth Logger	6498'		
Bottom Logged Interval	6486'		
Top Log Interval	180'		
Open Hole Size	8.75		
Type Fluid	Fresh Water		
Density / Viscosity	8.33		
Max. Recorded Temp.	-		
Estimated Cement Top	180'		
Time Well Ready	17.15		
Time Logger on Bottom	18.00		
Equipment Number	13033		
Location	Brighton		
Recorded By	C. Rall		L. Hobbs
Witnessed By	K. Dodge		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
1	13.5"	0'	437'
2	7"	0'	6563'
3	4.5"	6563'	10,915'
Casing Record	Size	Wgt/Ft	Top
Surface String	9.625"	36#	0'
Prod. String			
Production String	7"	26#	0'
Liner	4.5	11.6#	6563'
			10,915'

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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

Logged From Liner Top To 180' Per Client Request

Lack of Hyrdostatic Pressure, and
Surfacing Casing Interference Contribute to High Amp Reading From 437'

Main Pass and Repeat Pass logged with 0 PSI

Thank You For using Allied Wireline

(303) 659-4609

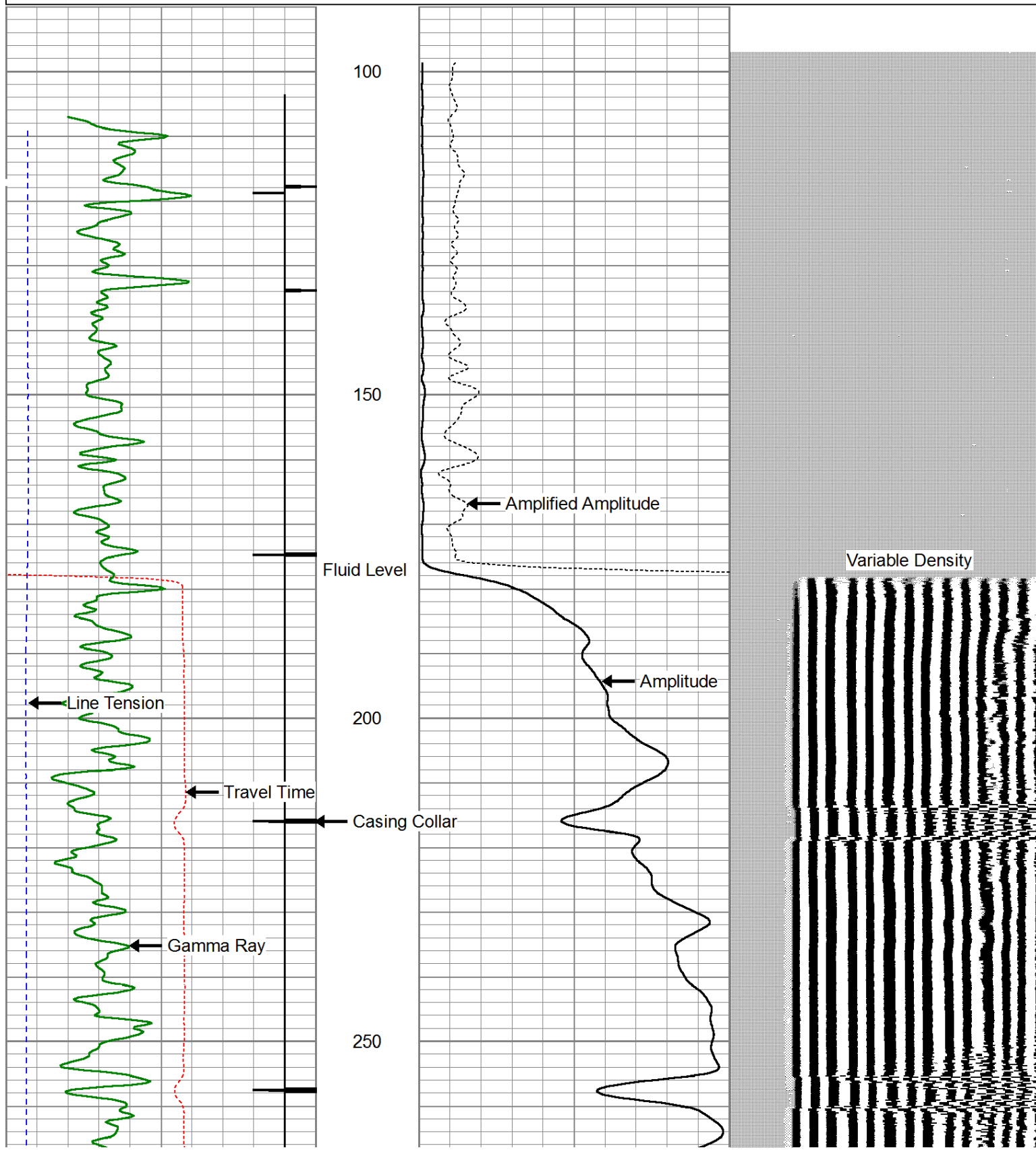


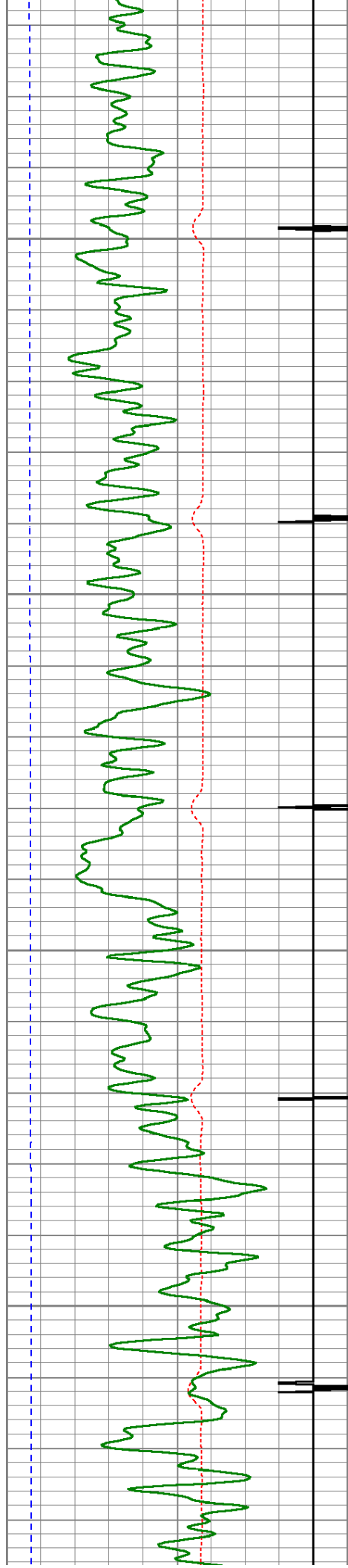
Main Pass (0 PSI)

Database File: bonanza_creek_antelope_41_44_30hnbcbi.db
Dataset Pathname: pass4
Presentation Format: cblprobe
Dataset Creation: Fri Jul 05 18:08:17 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	200	Variable Density	1200
0	Amplified Amplitude (mV)	10			



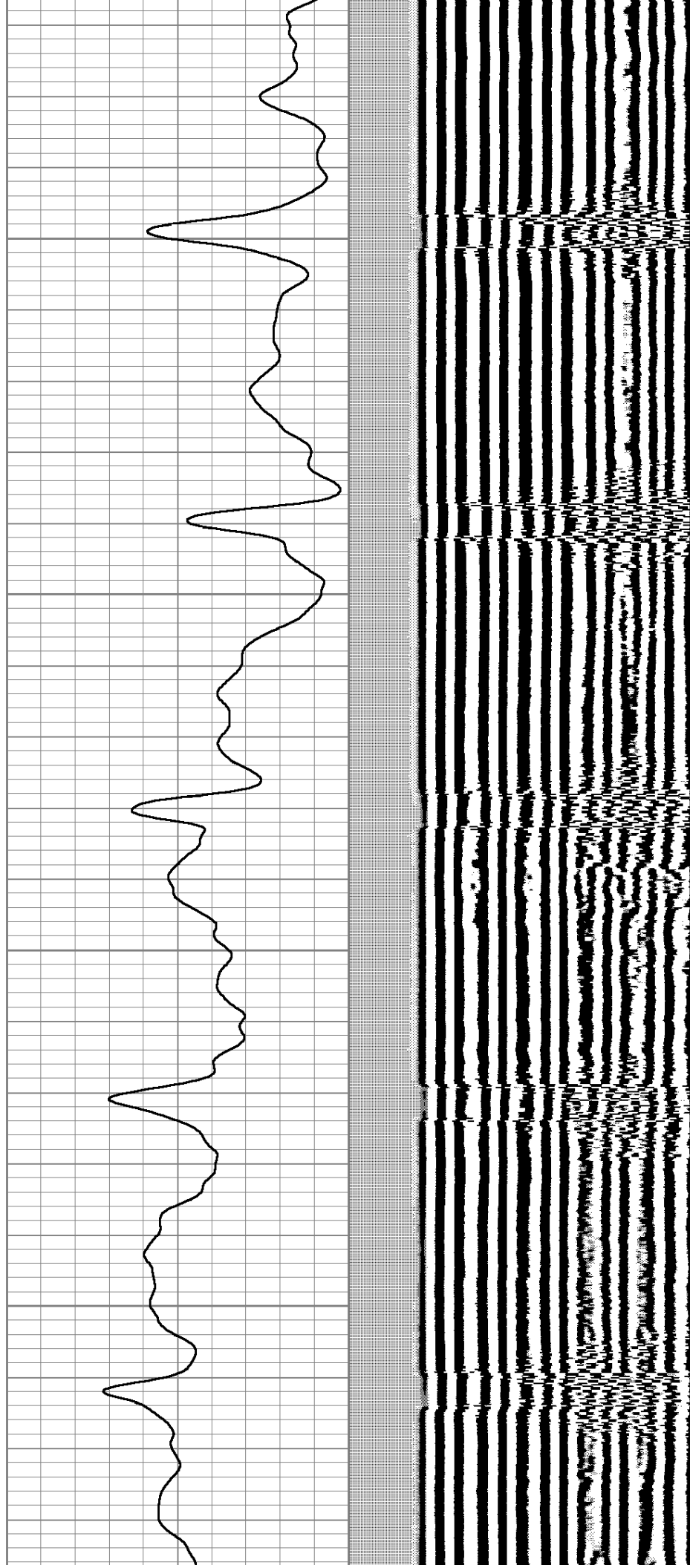


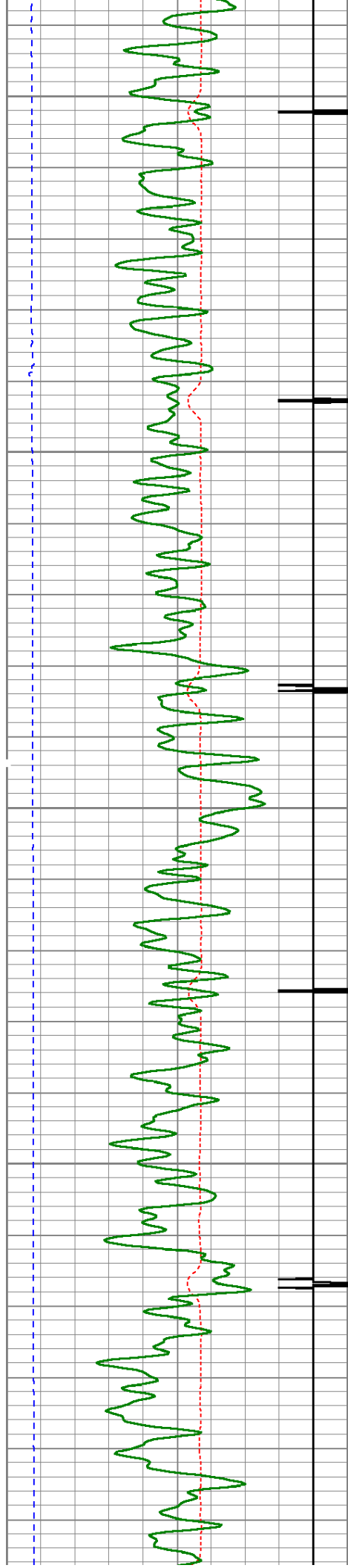
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350

400

450





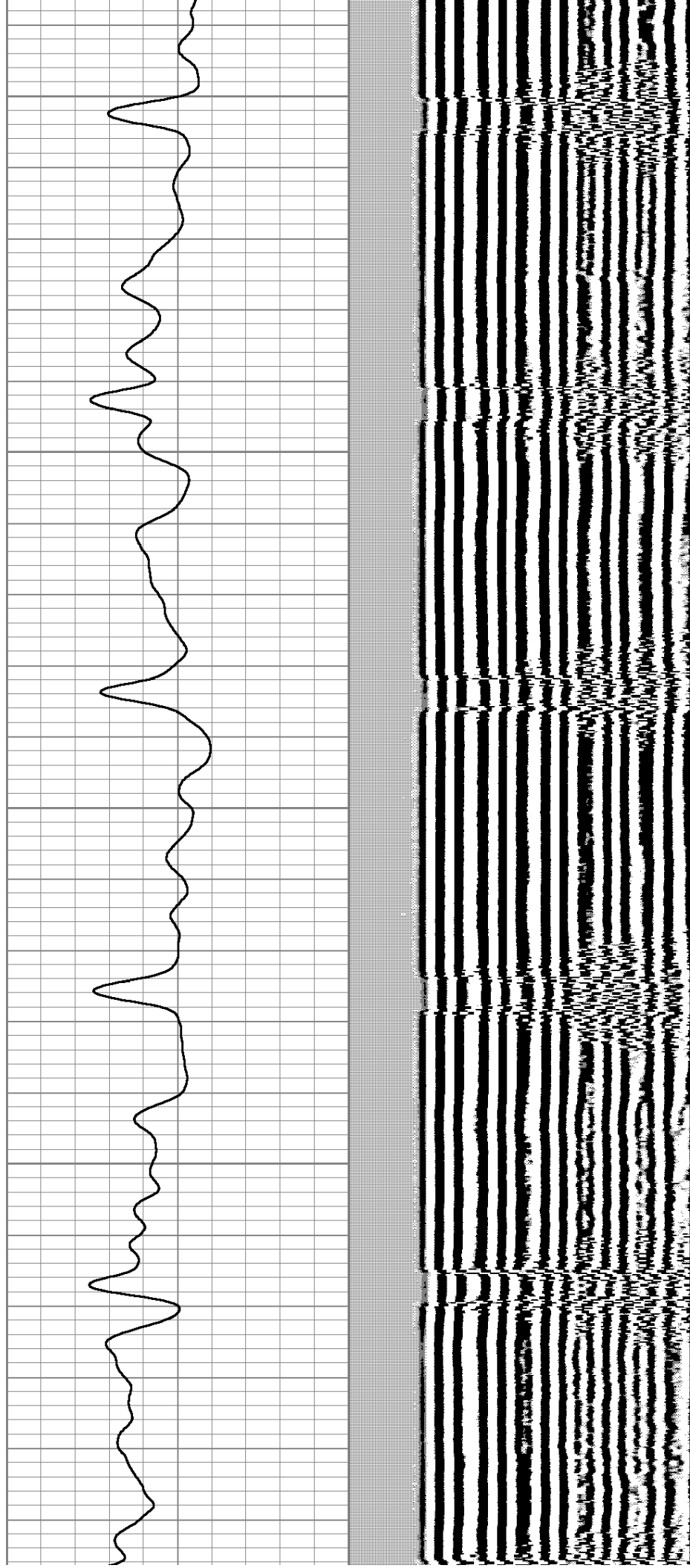
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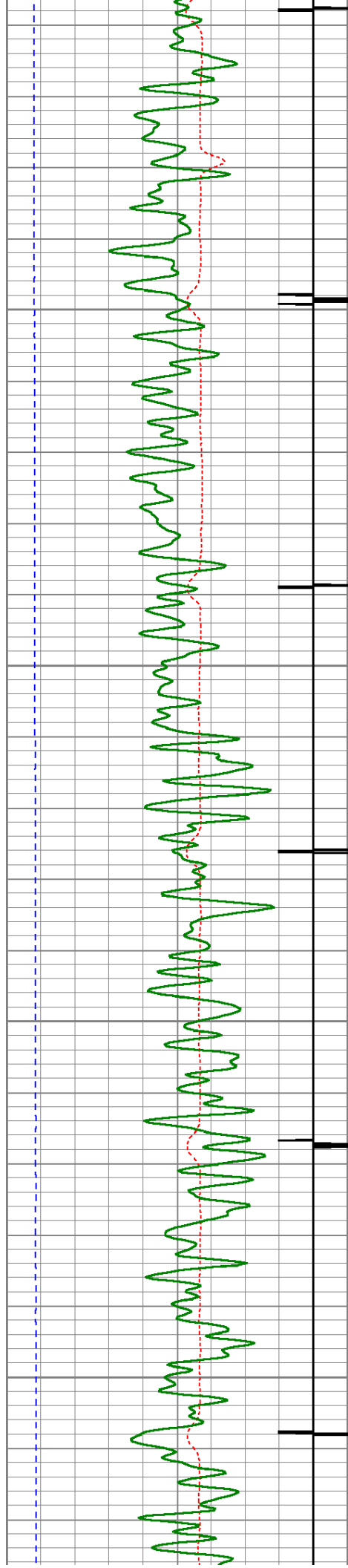
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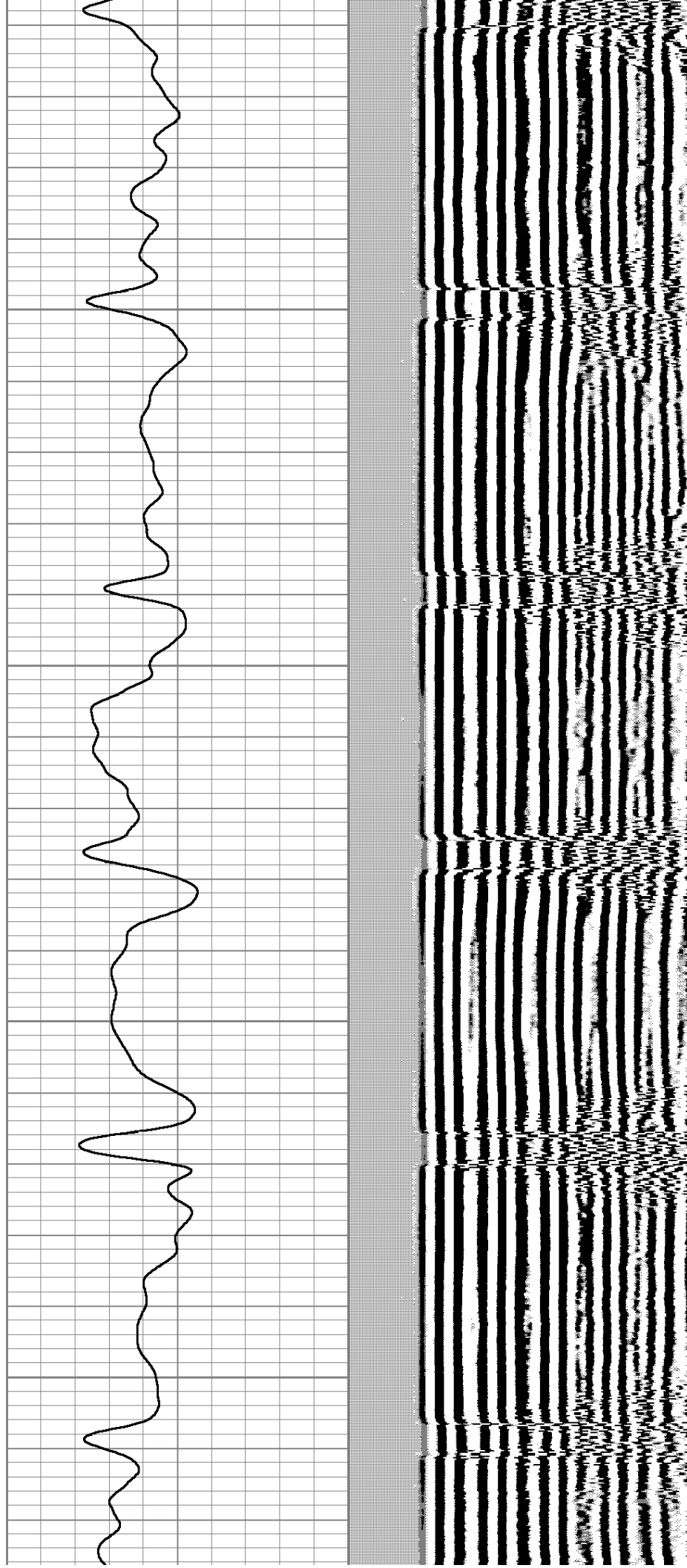


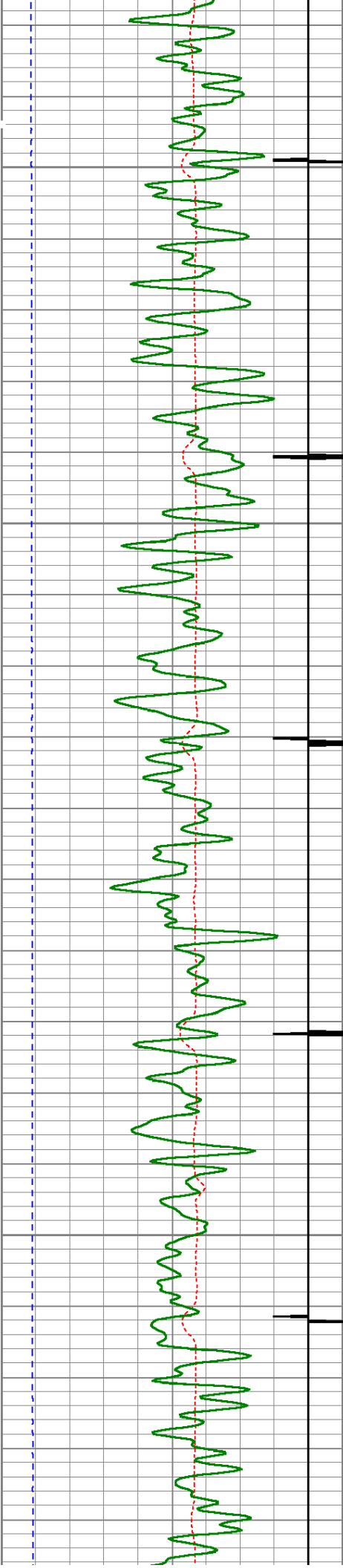
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850

900



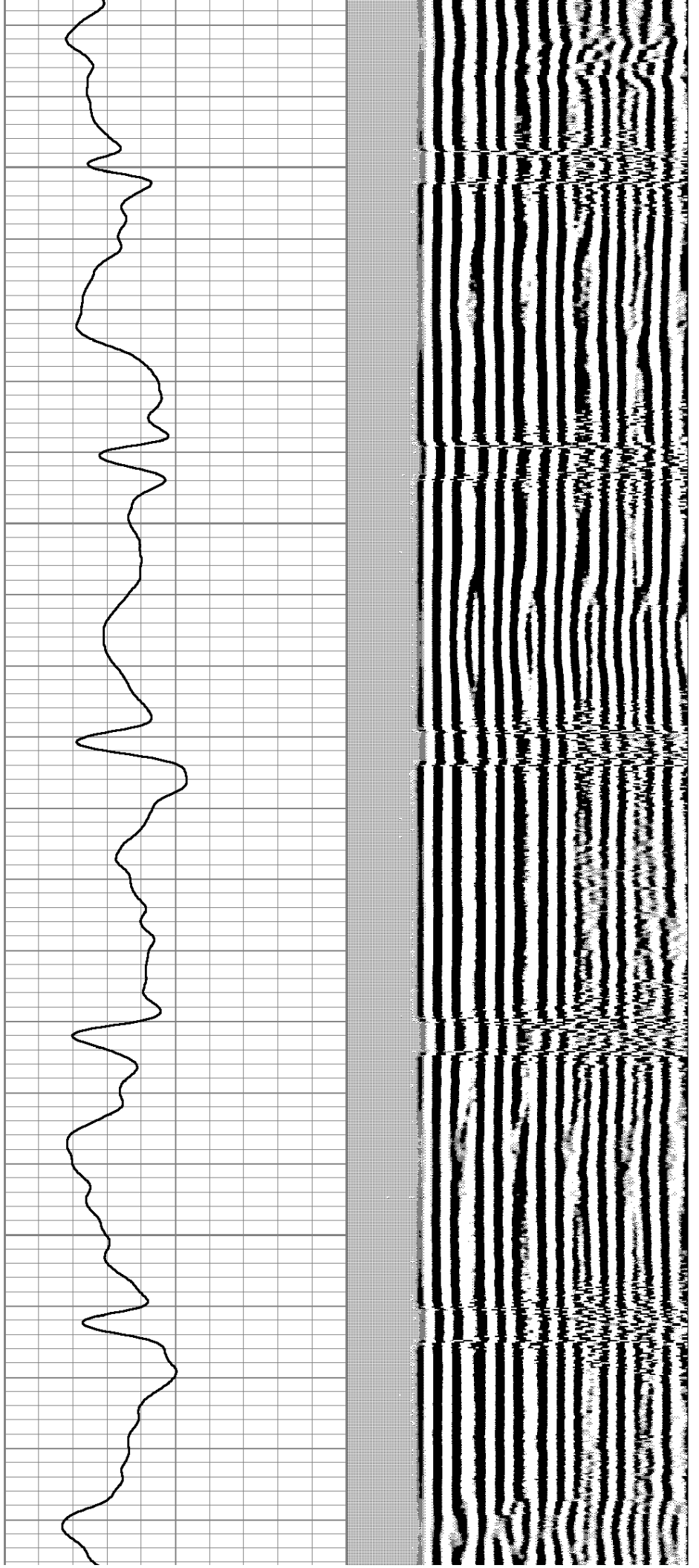


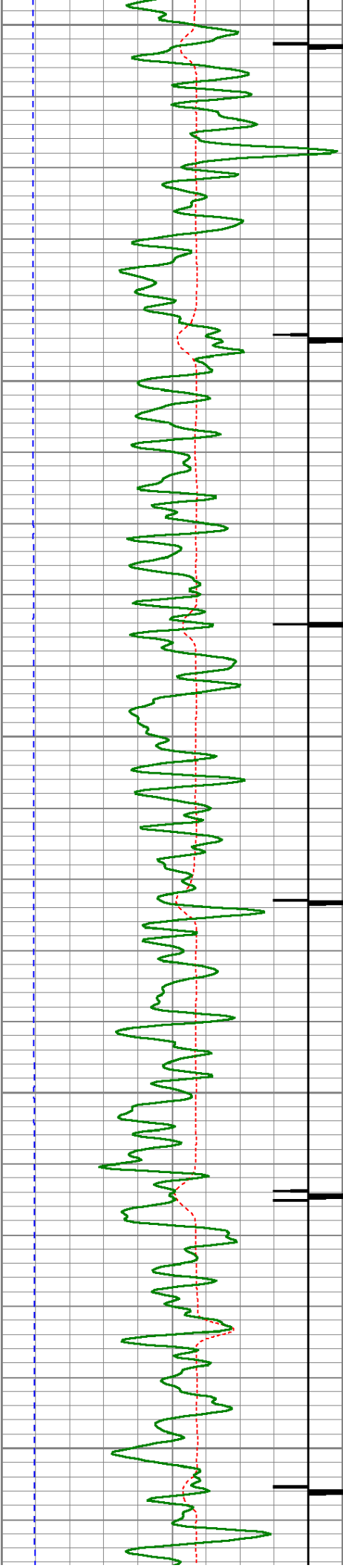
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1000

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1100





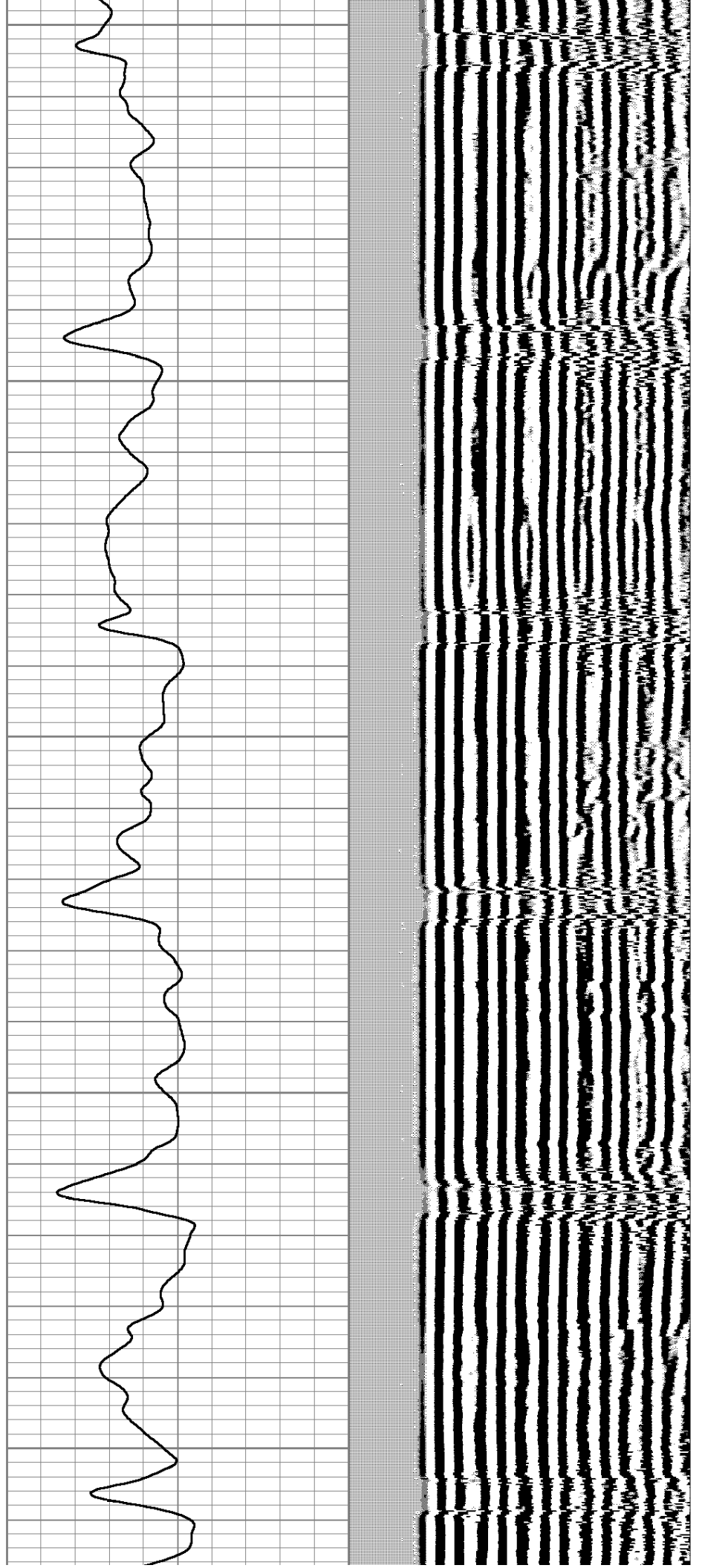
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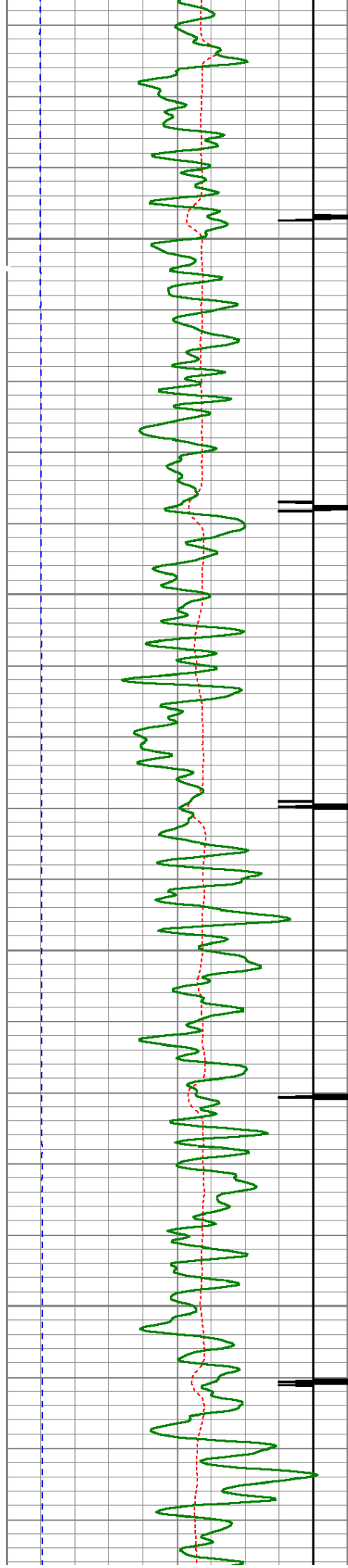
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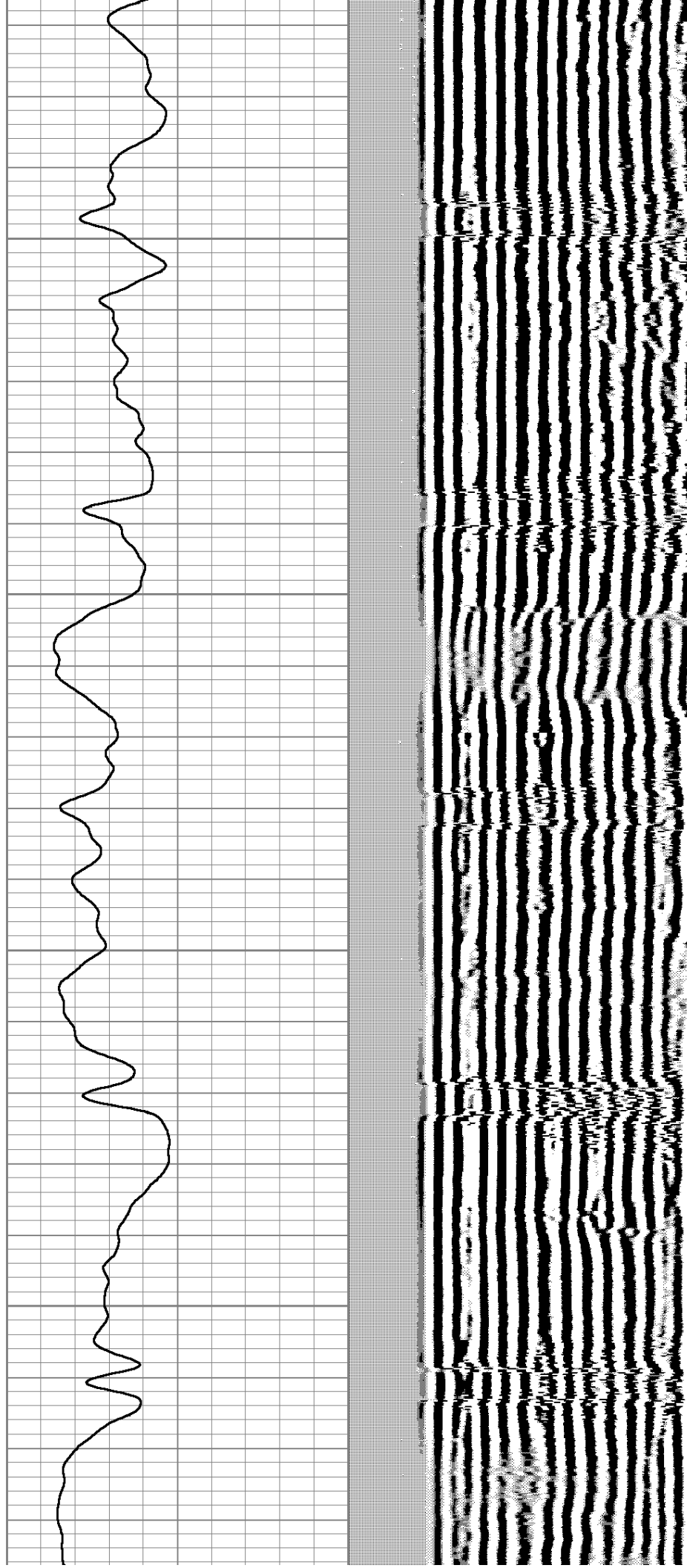


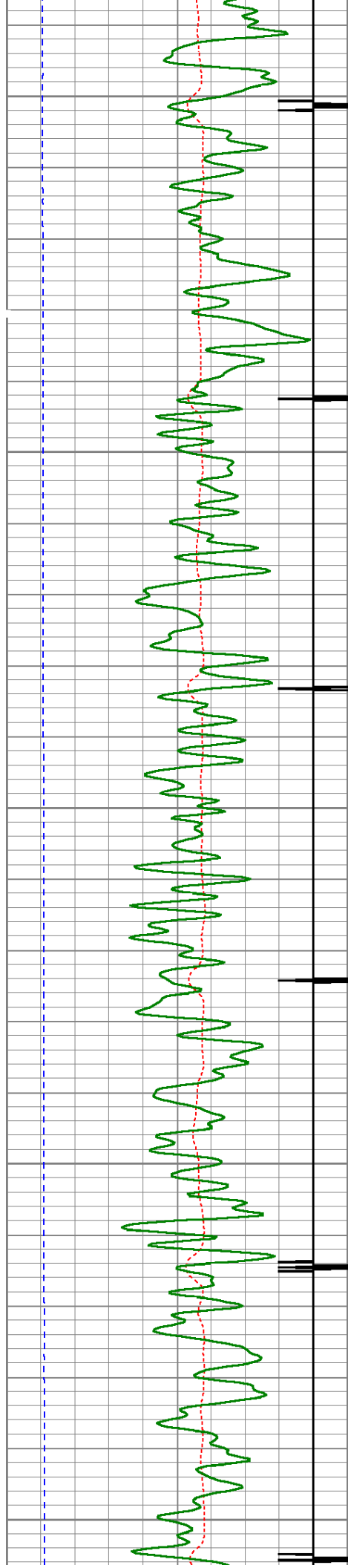
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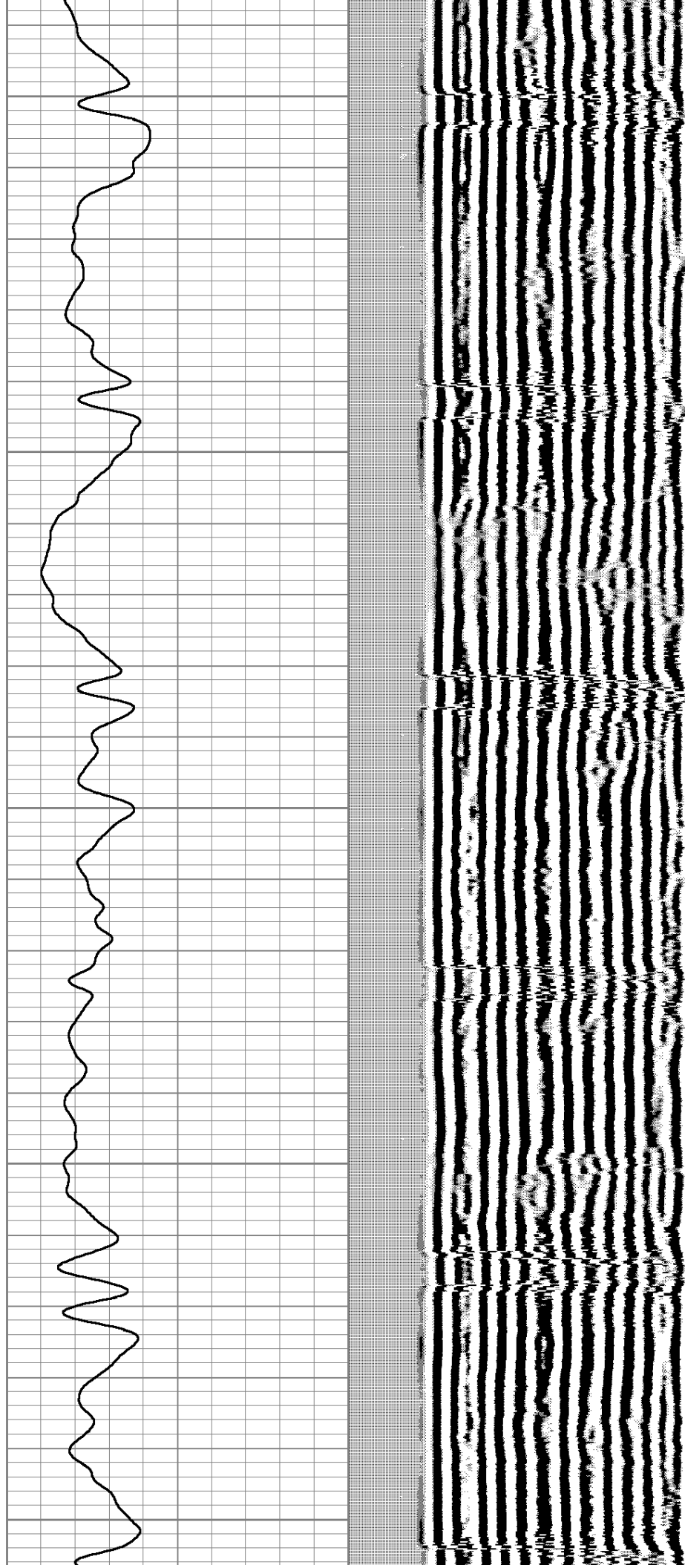
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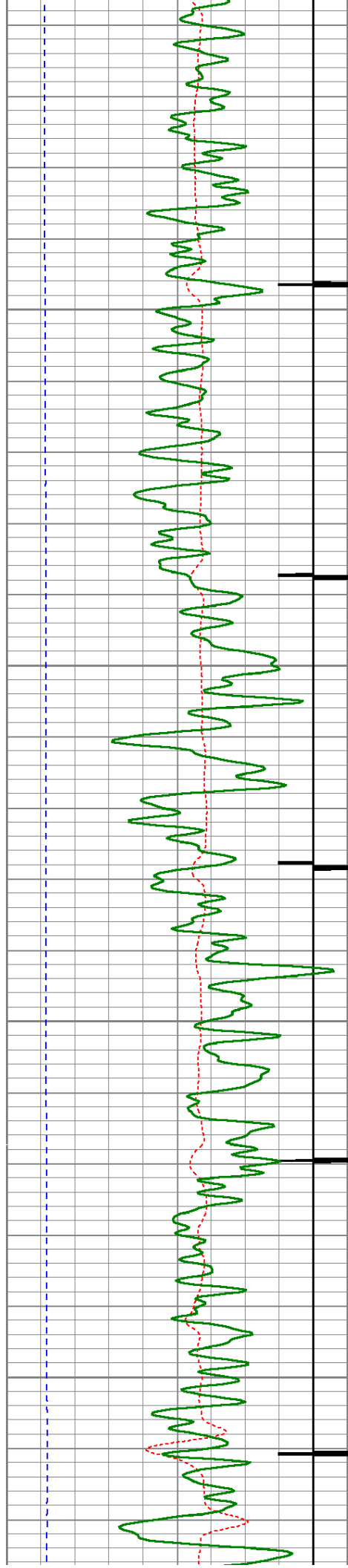
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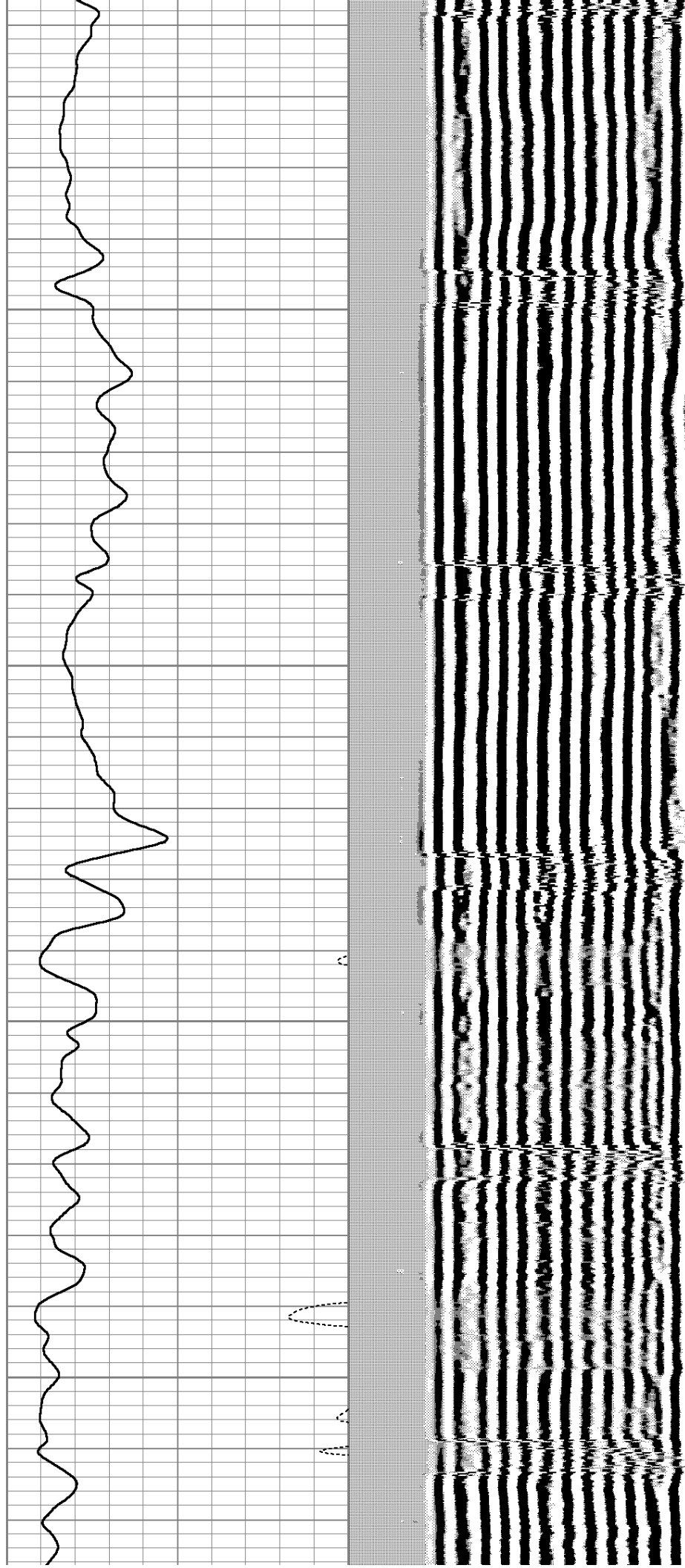


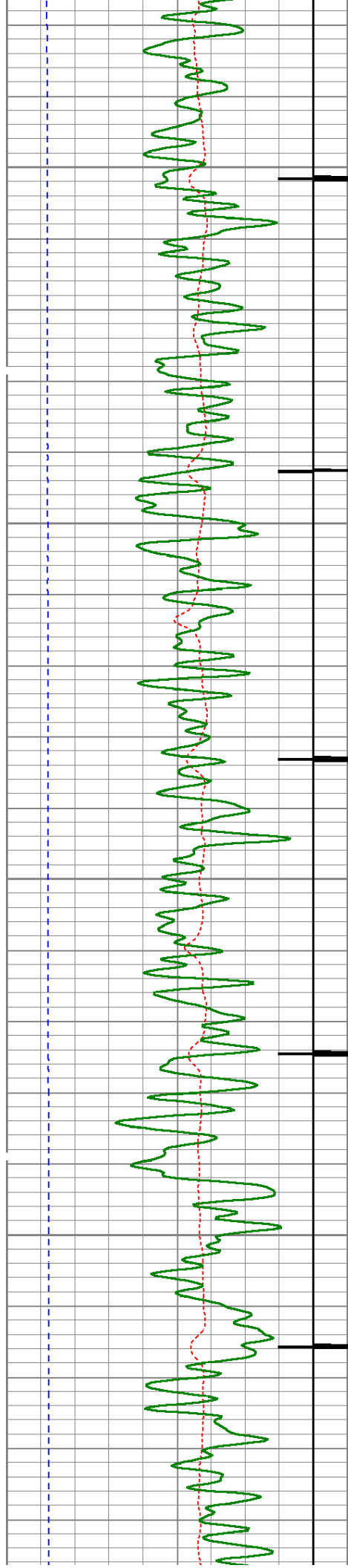
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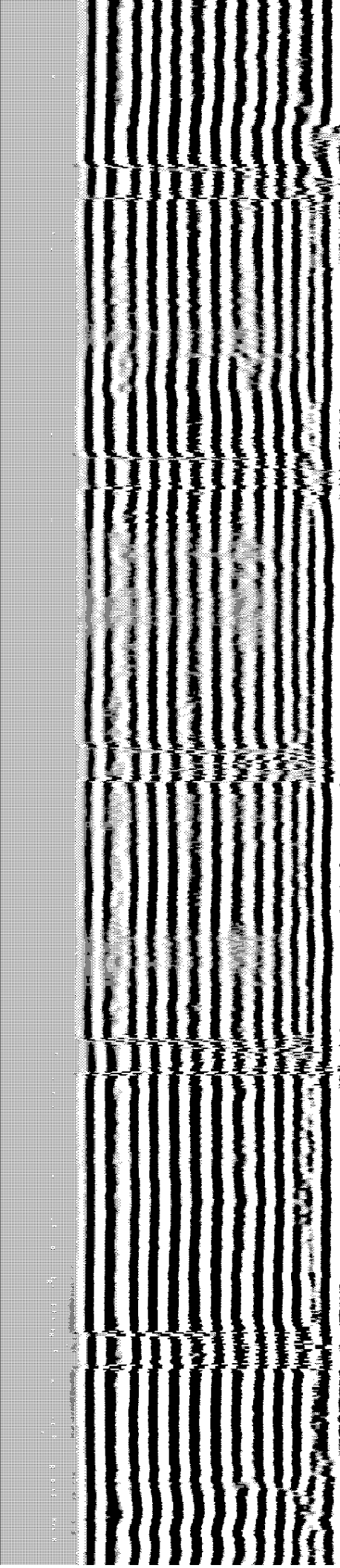
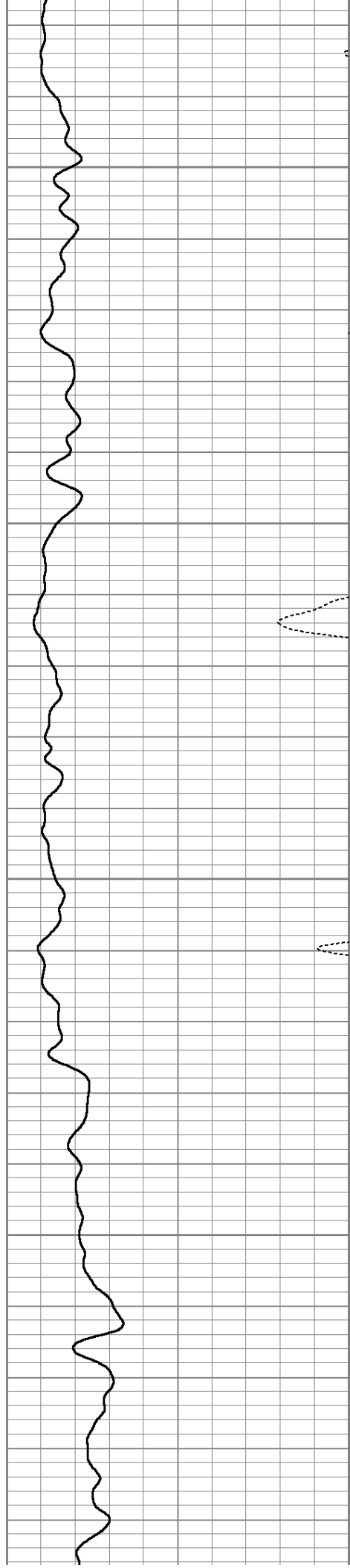


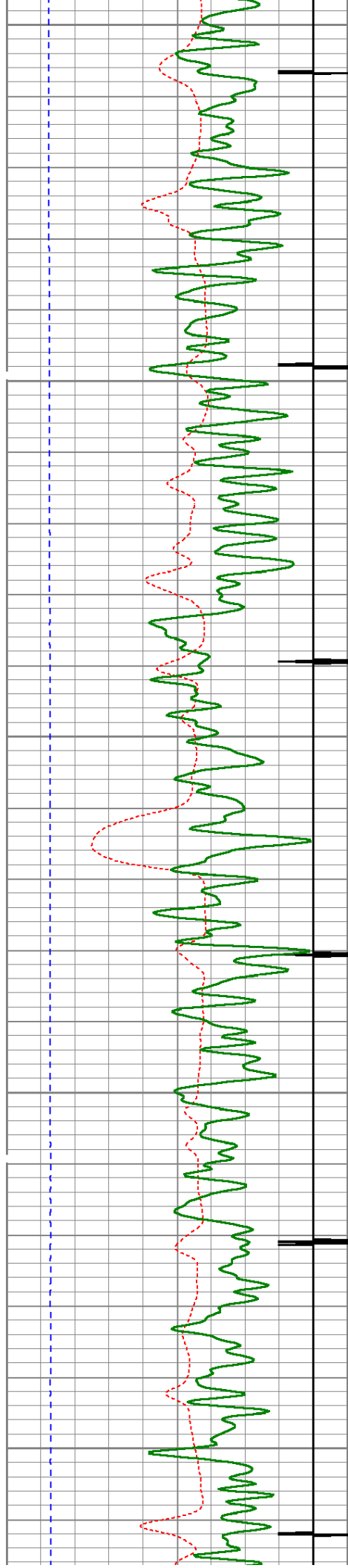
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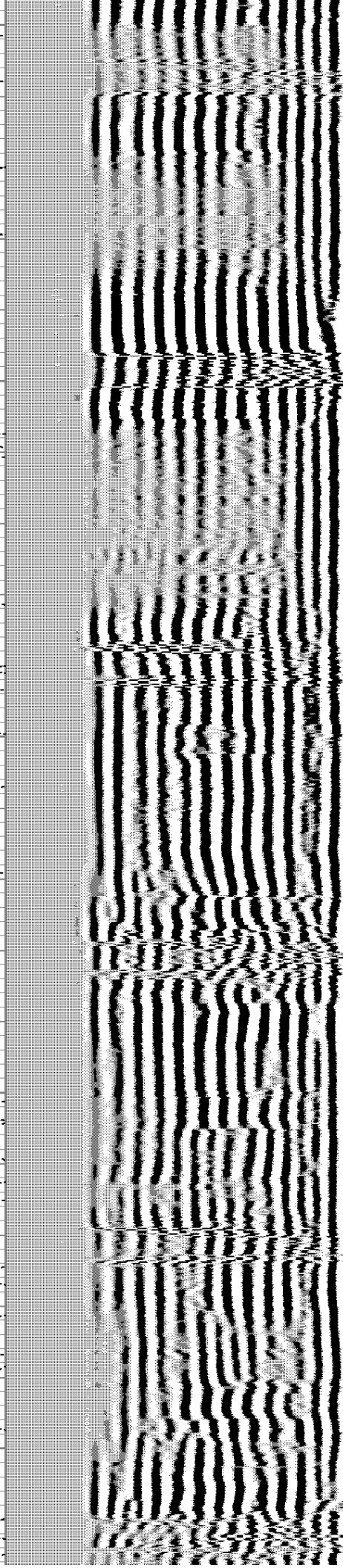
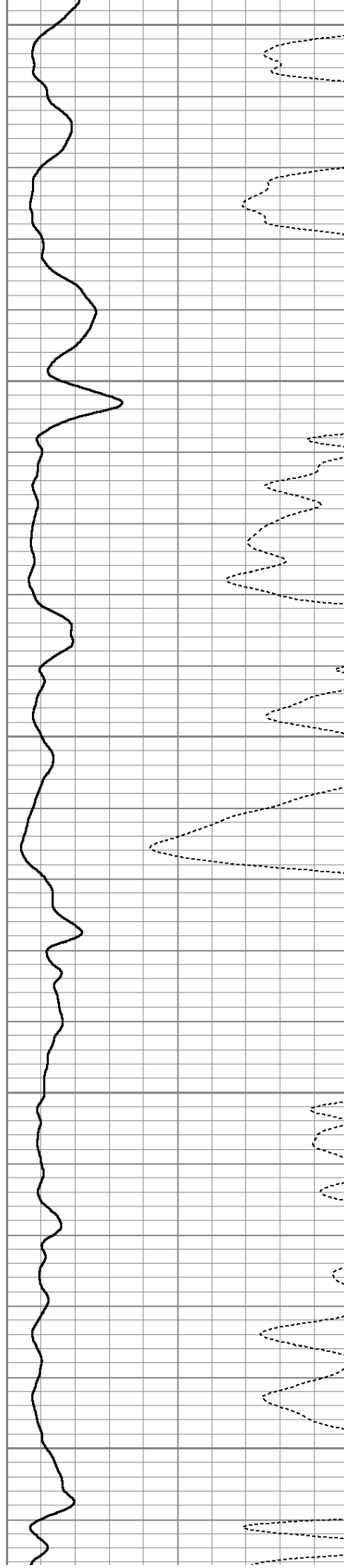
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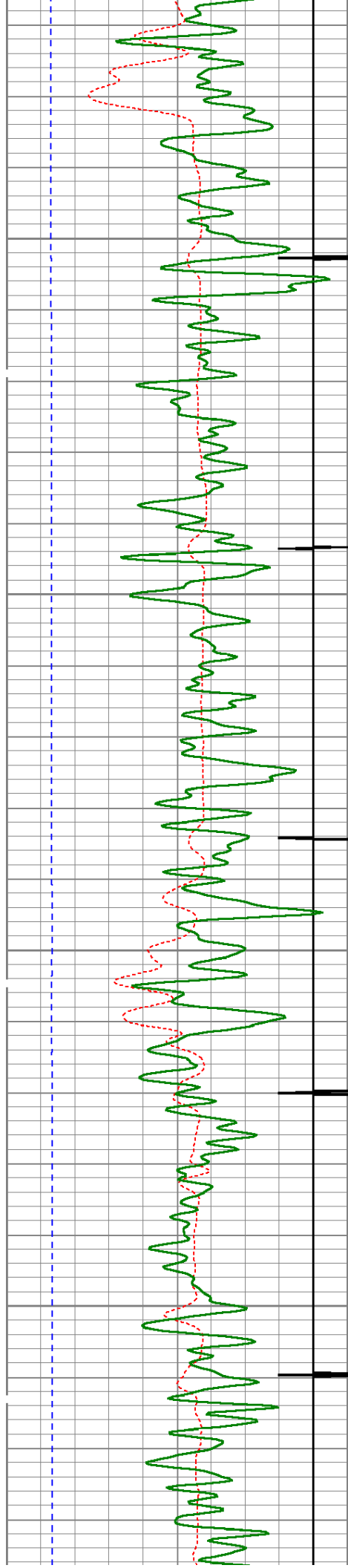
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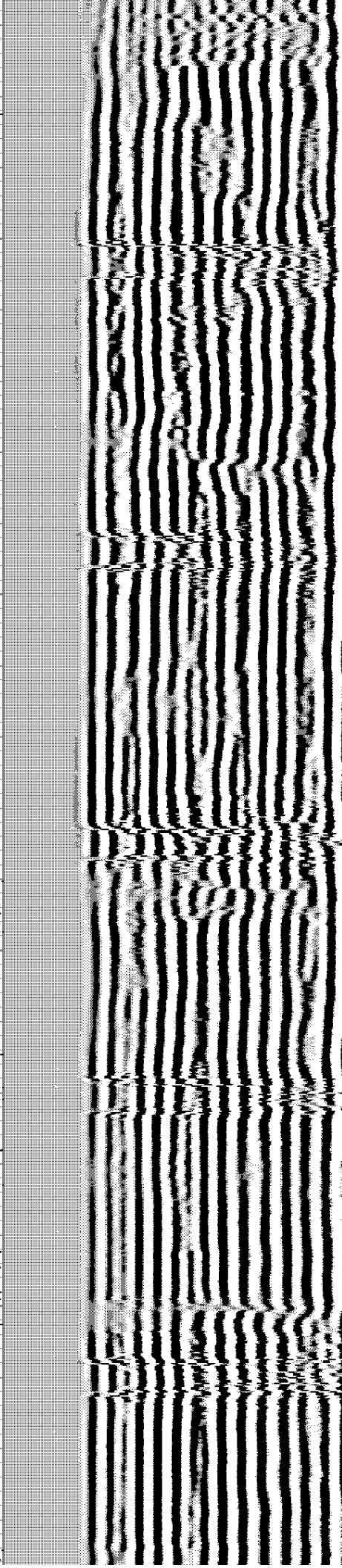


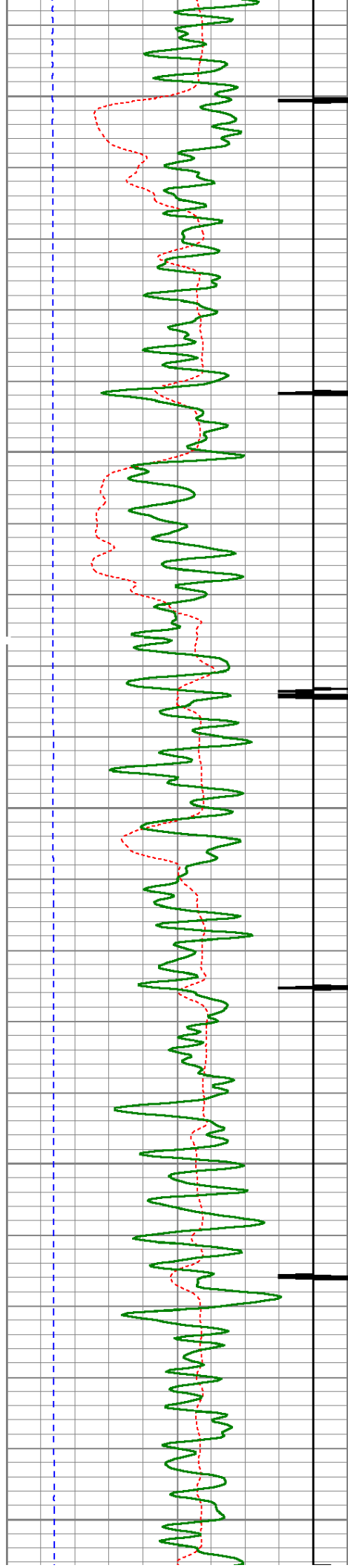
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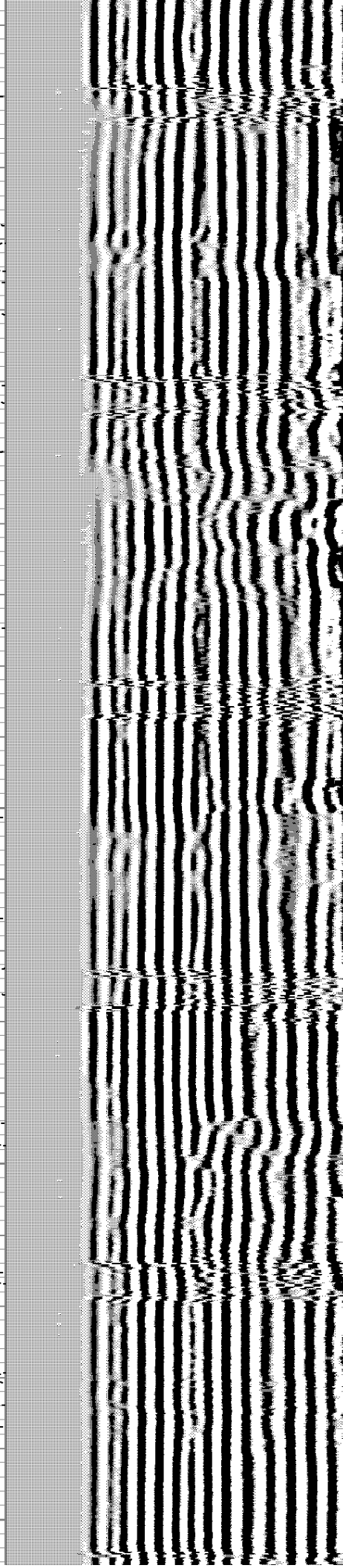
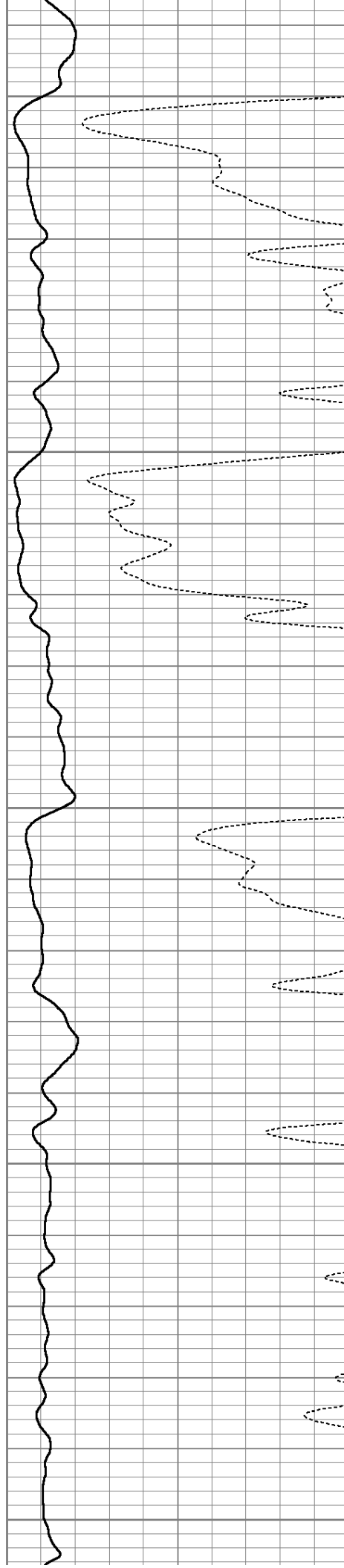
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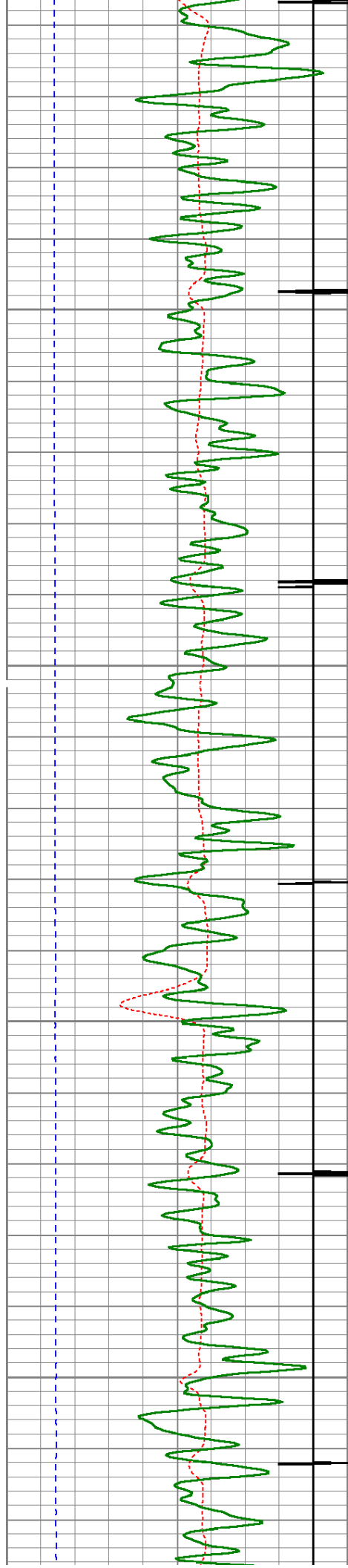
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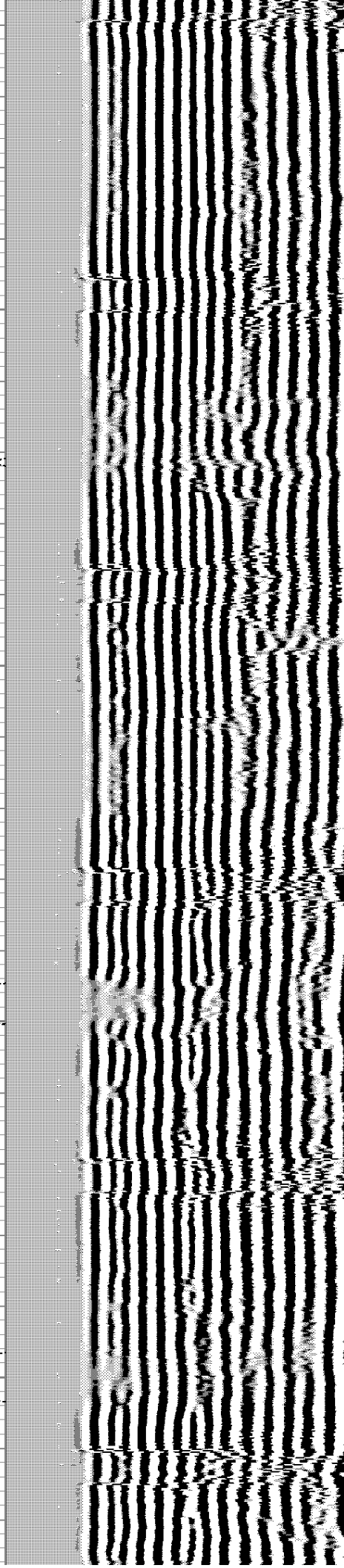
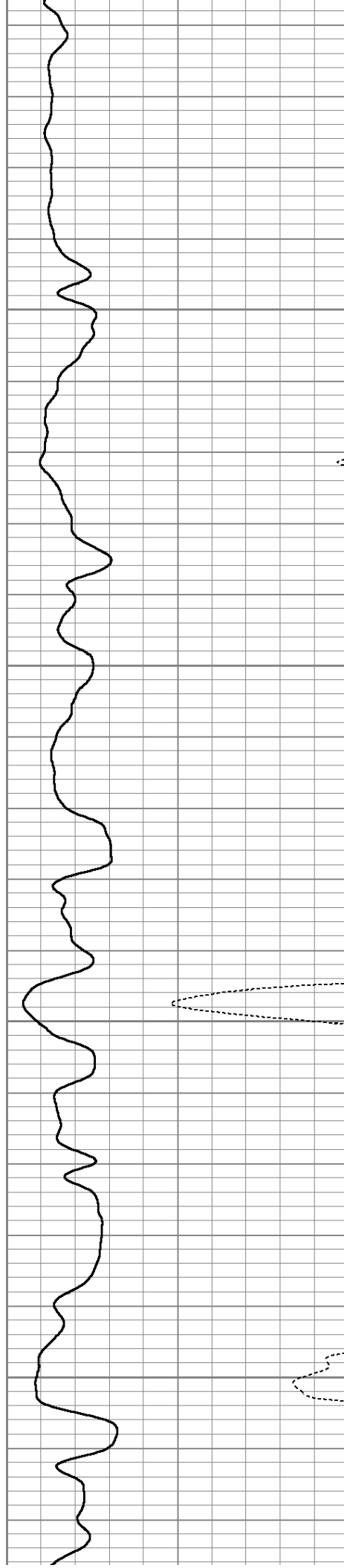


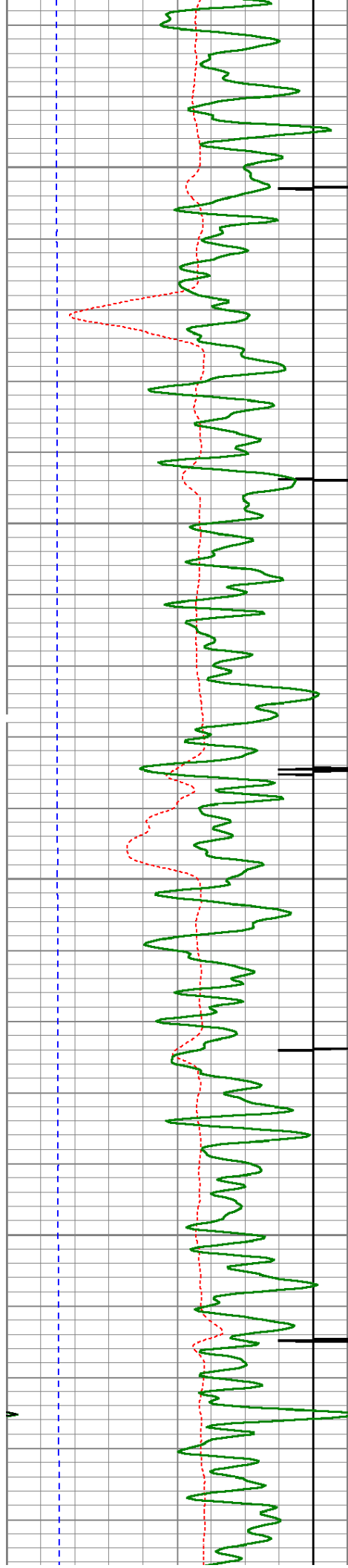
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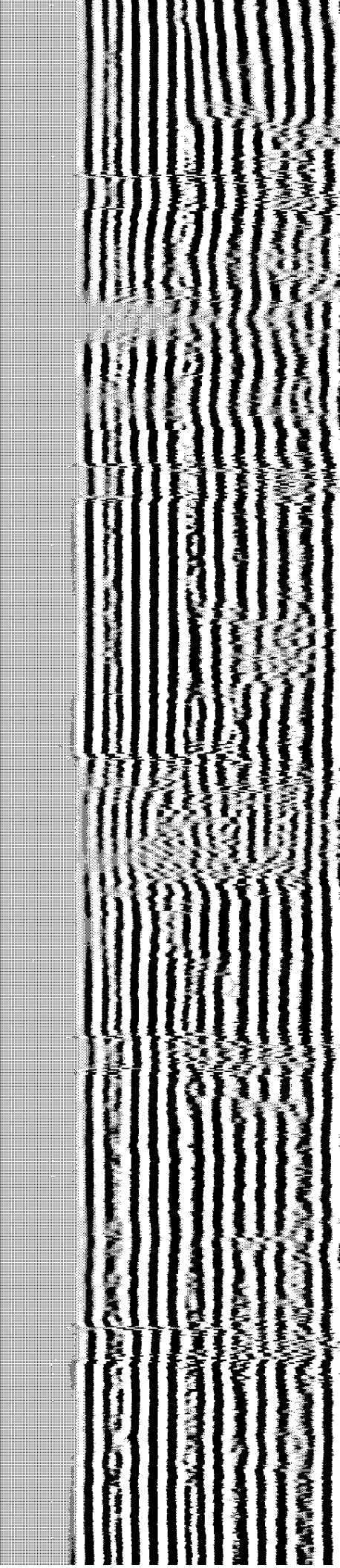
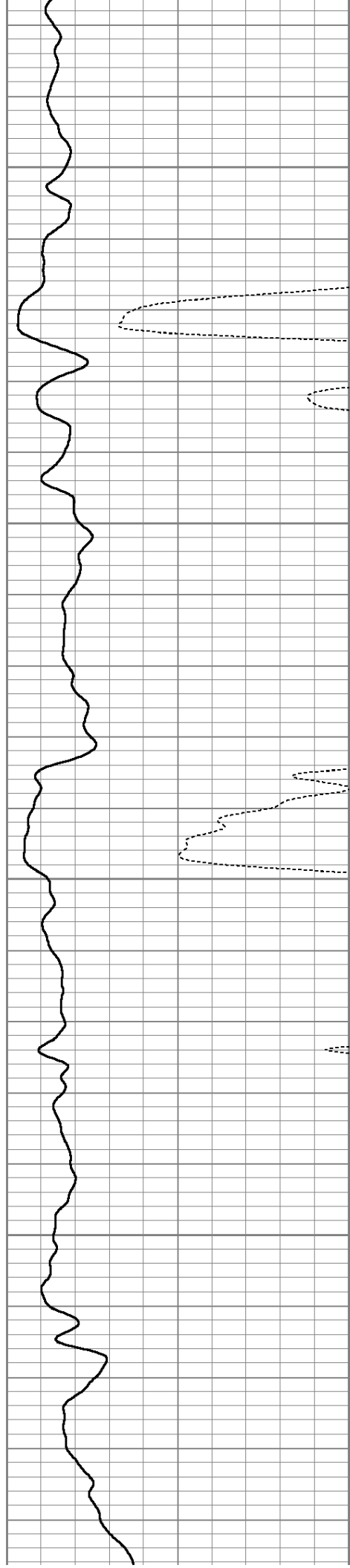


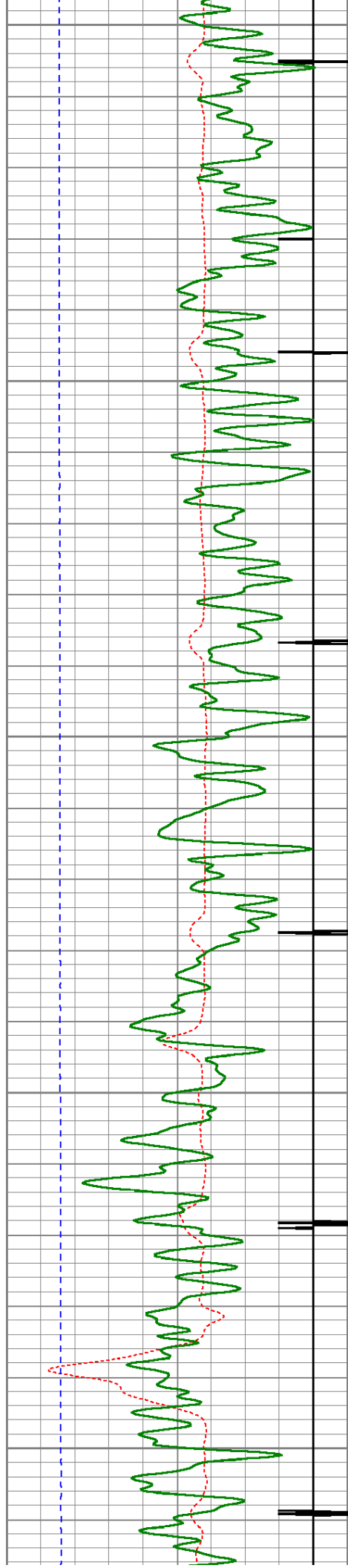
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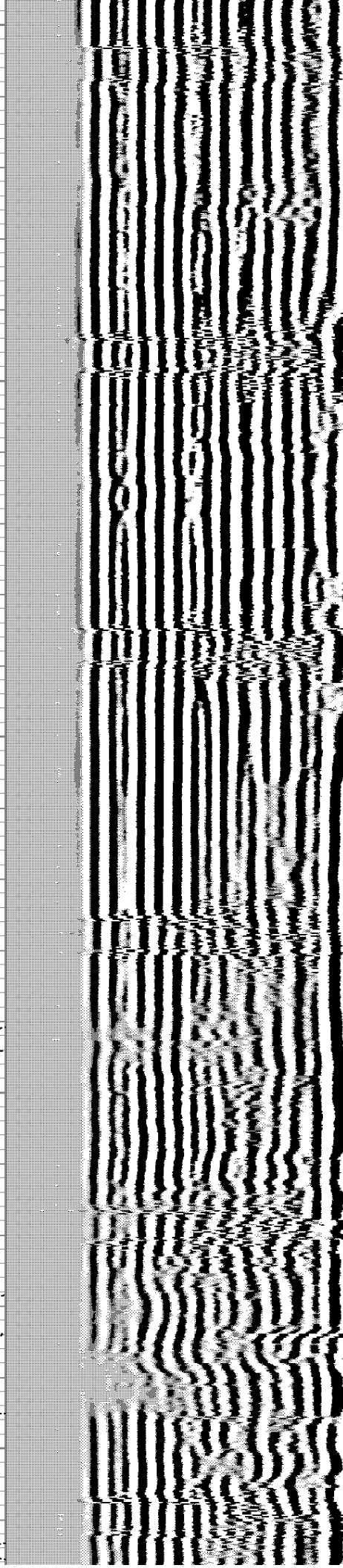
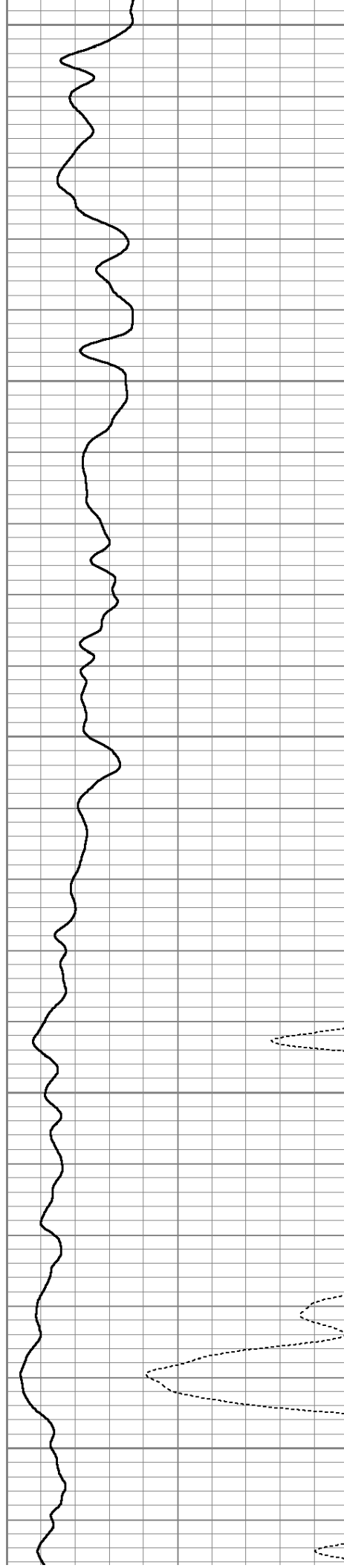
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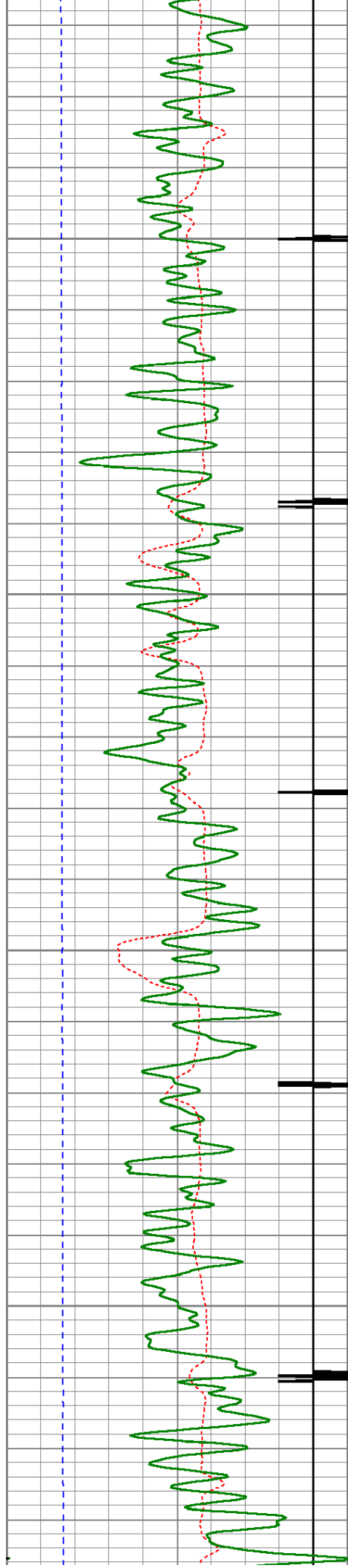
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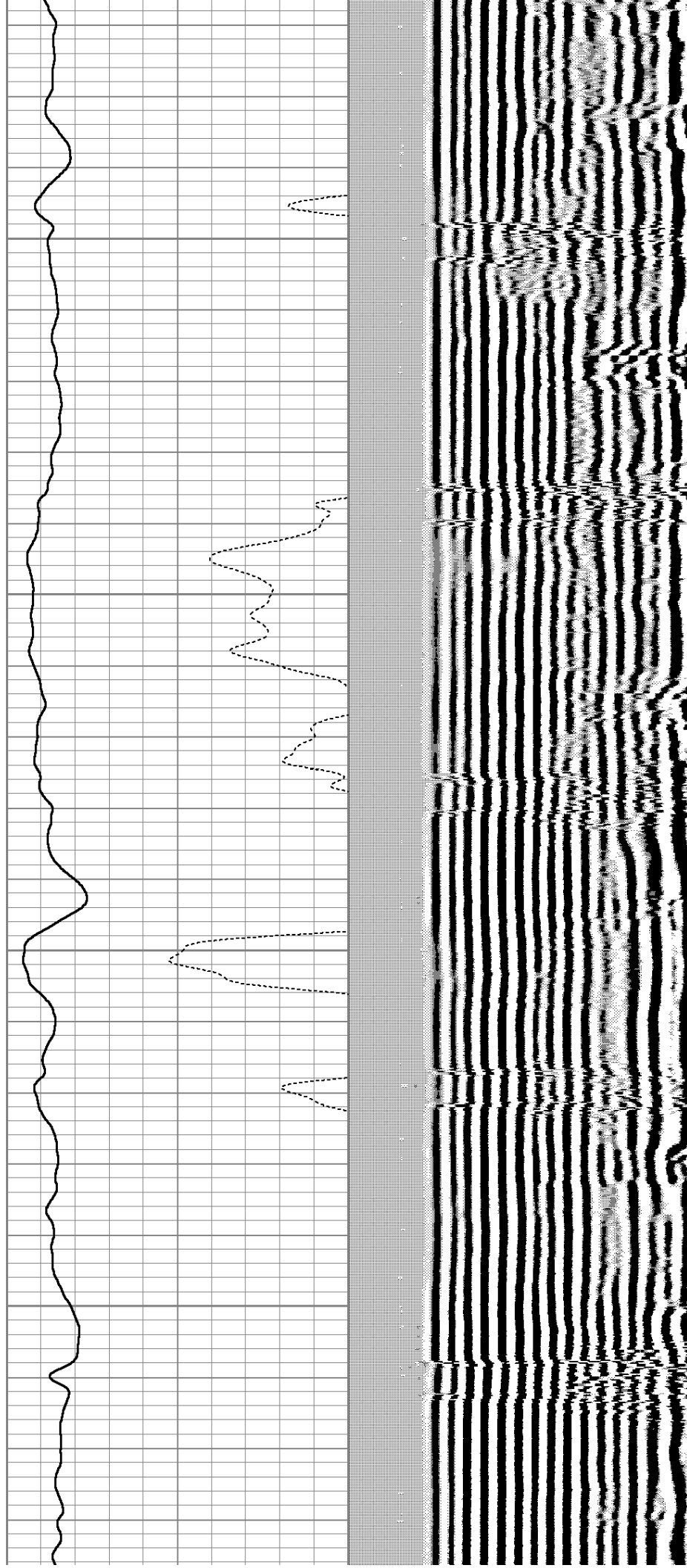


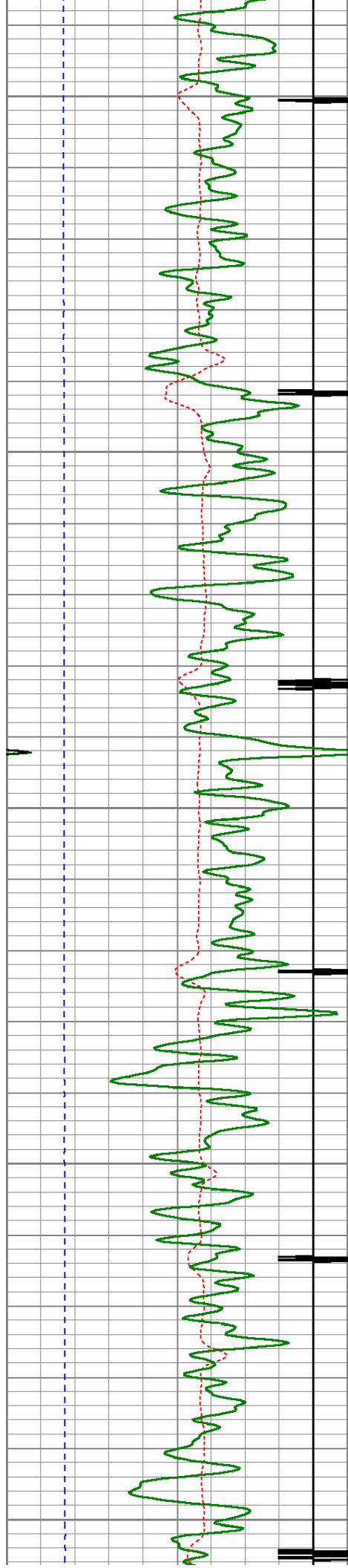
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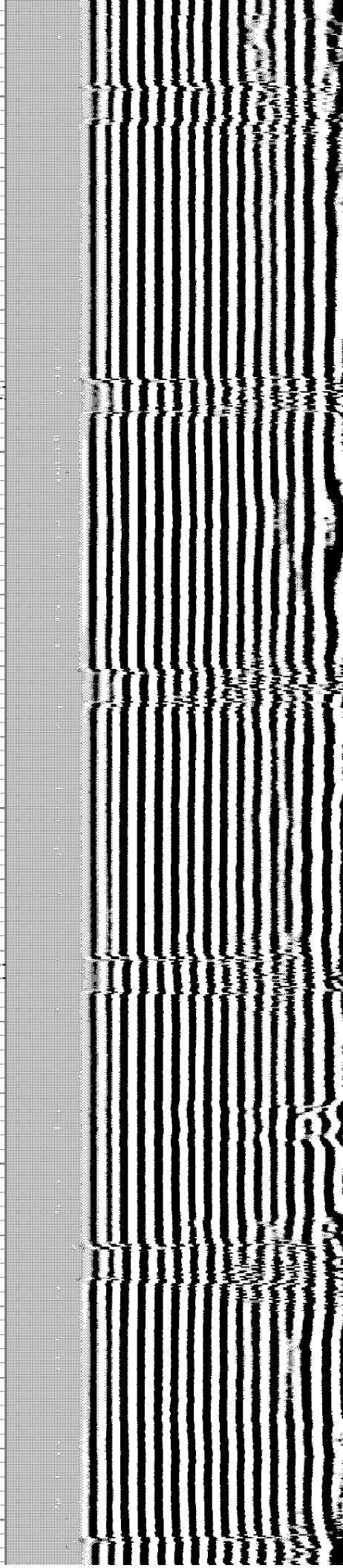
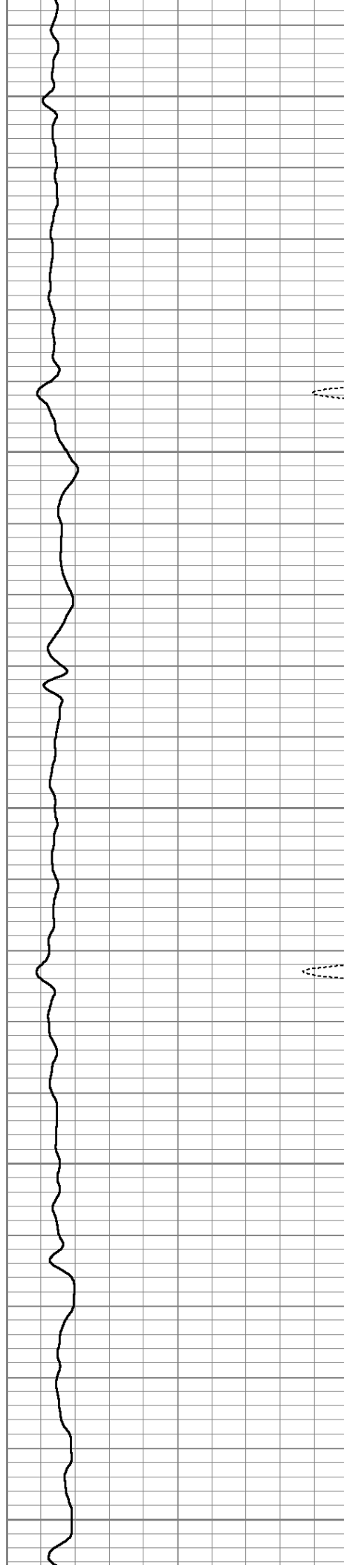
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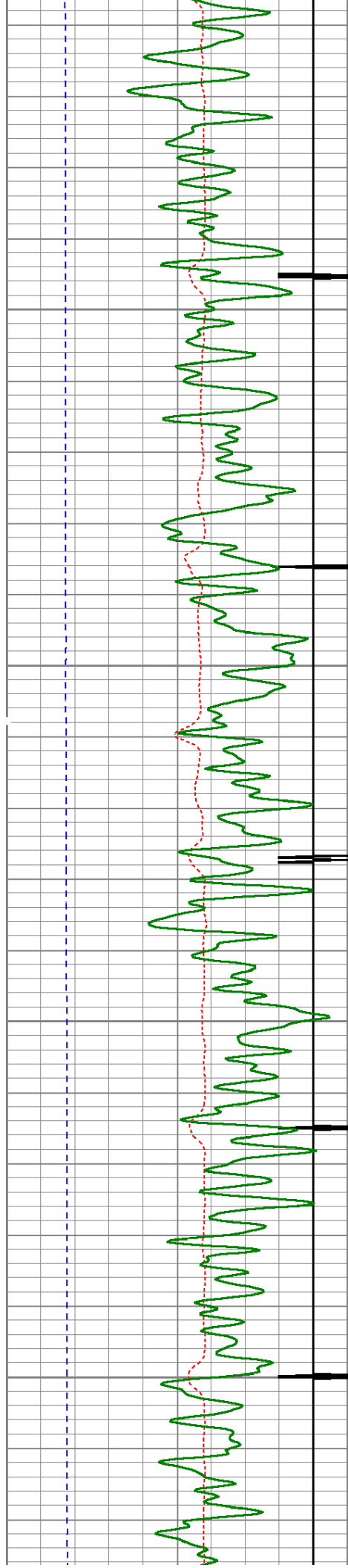
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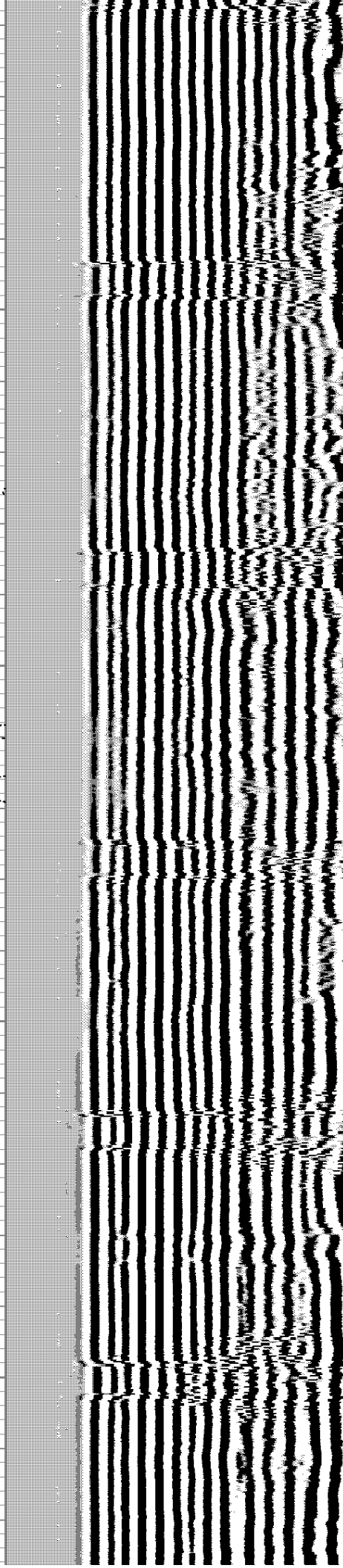
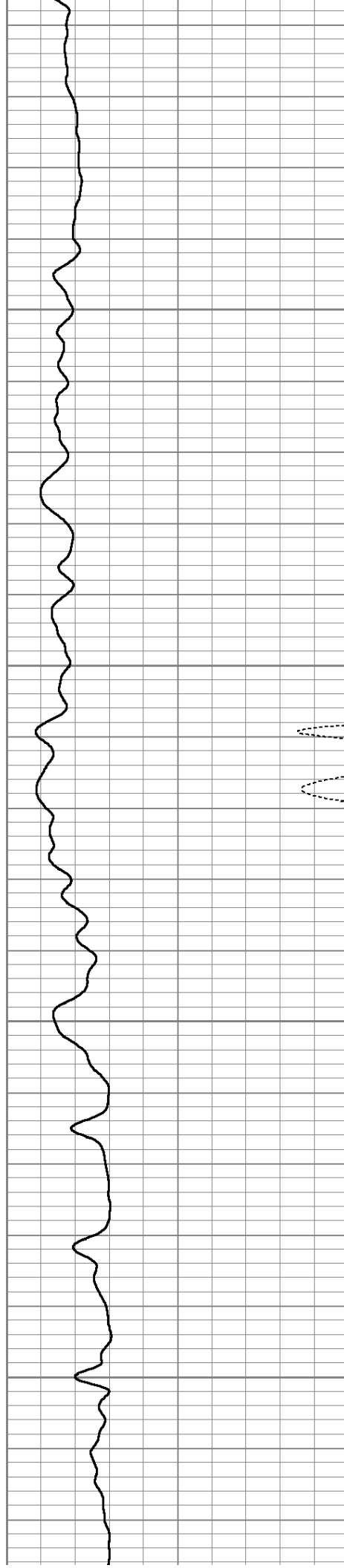


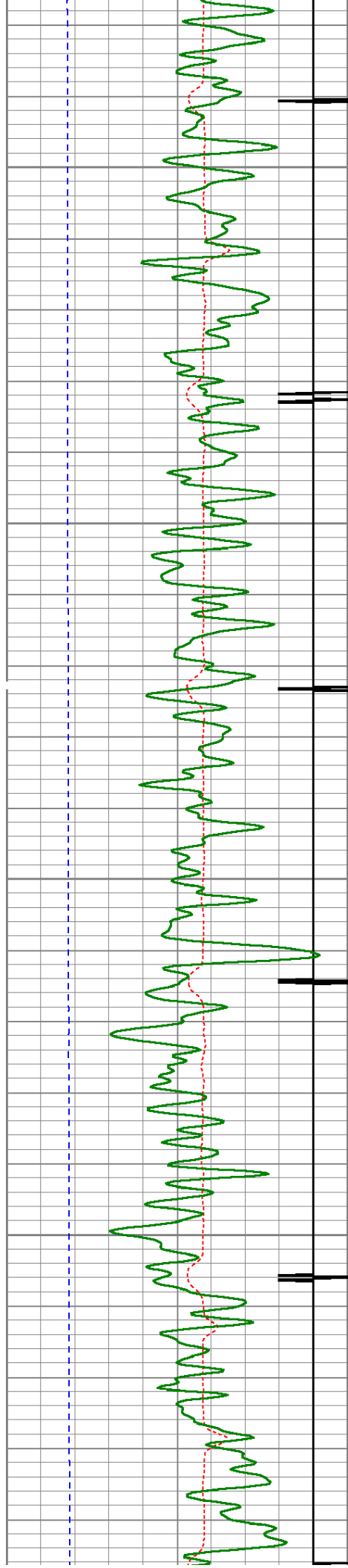
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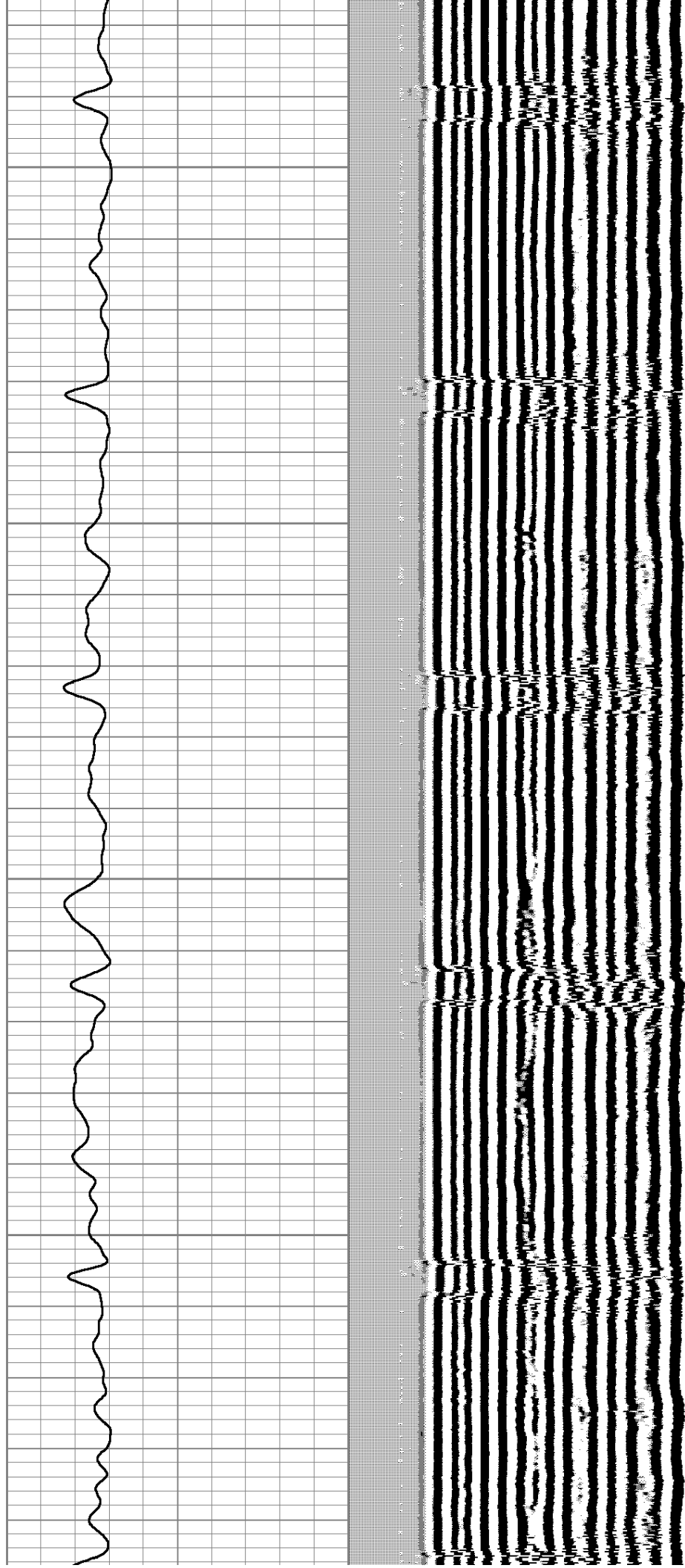


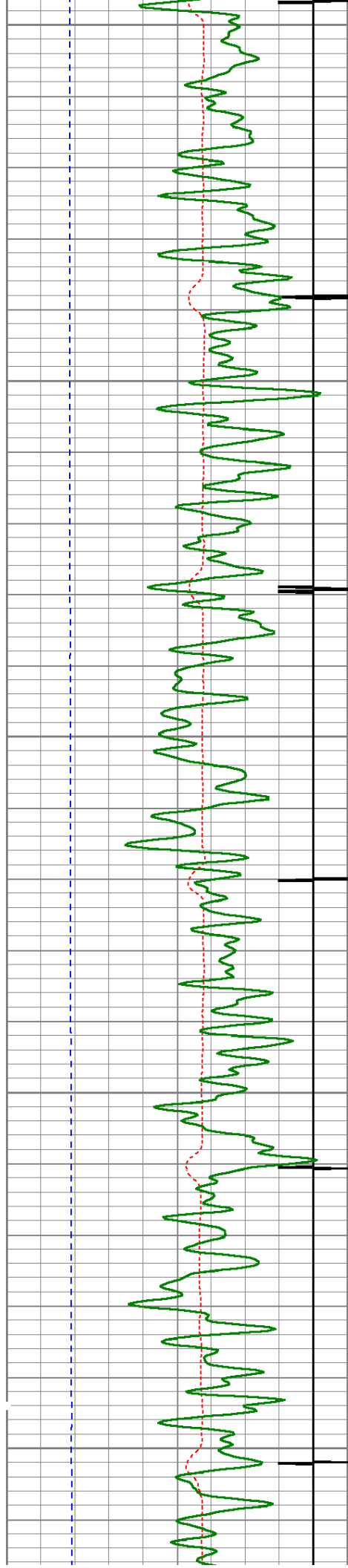
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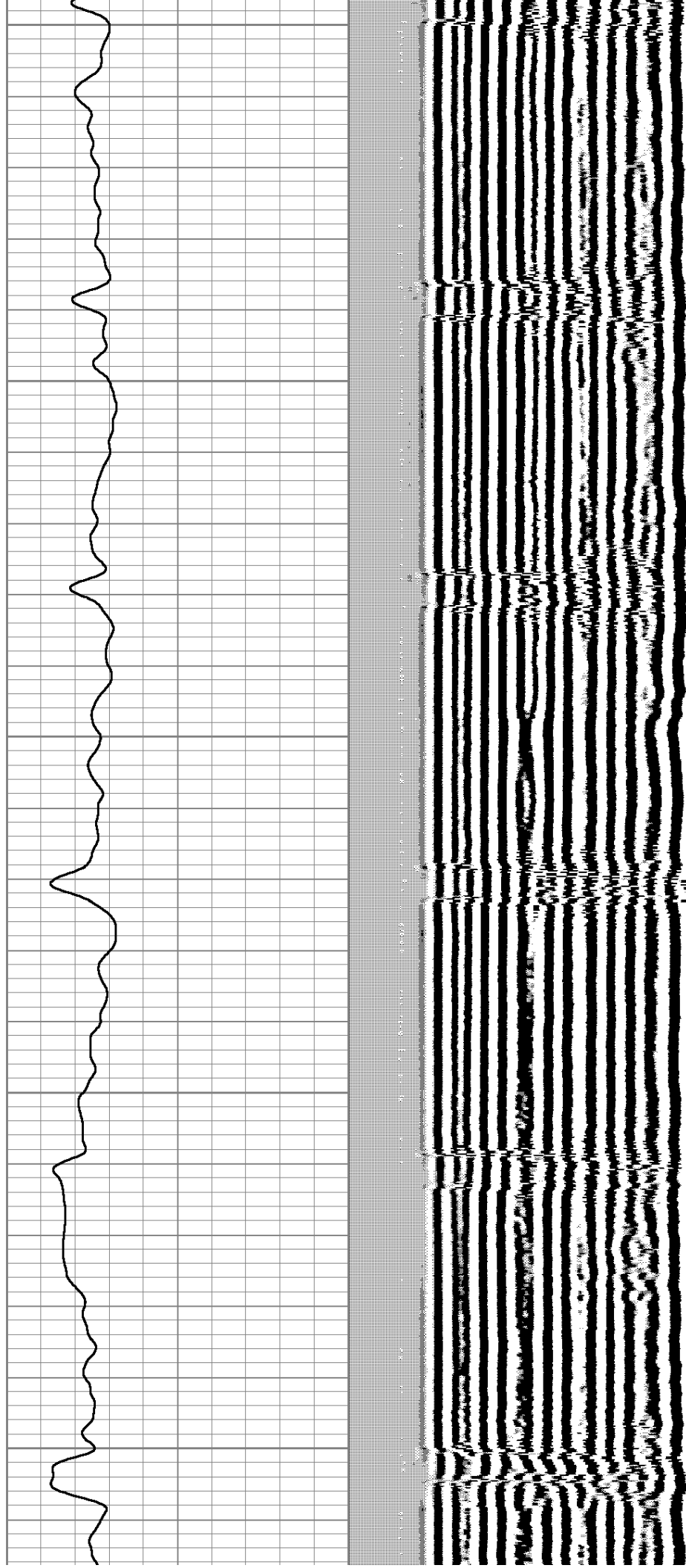
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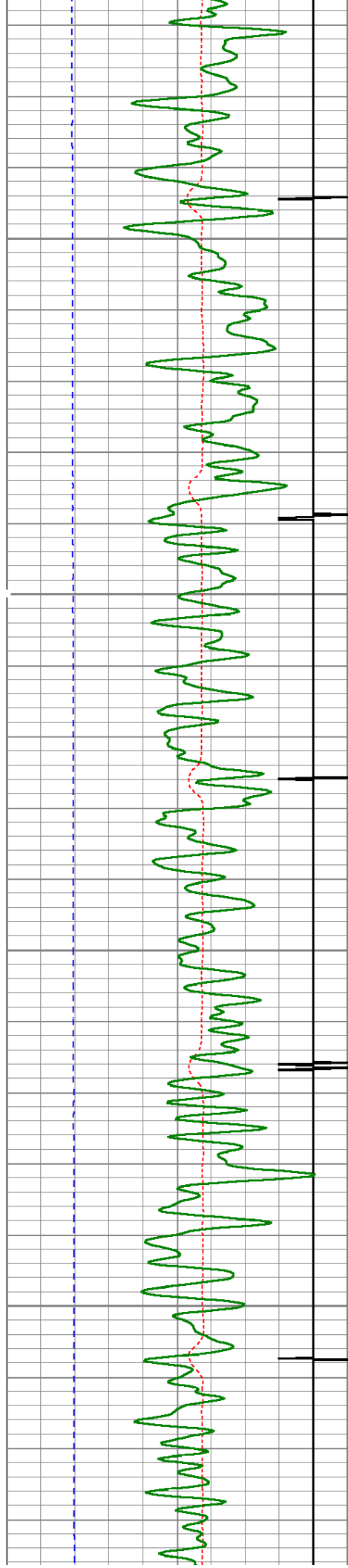
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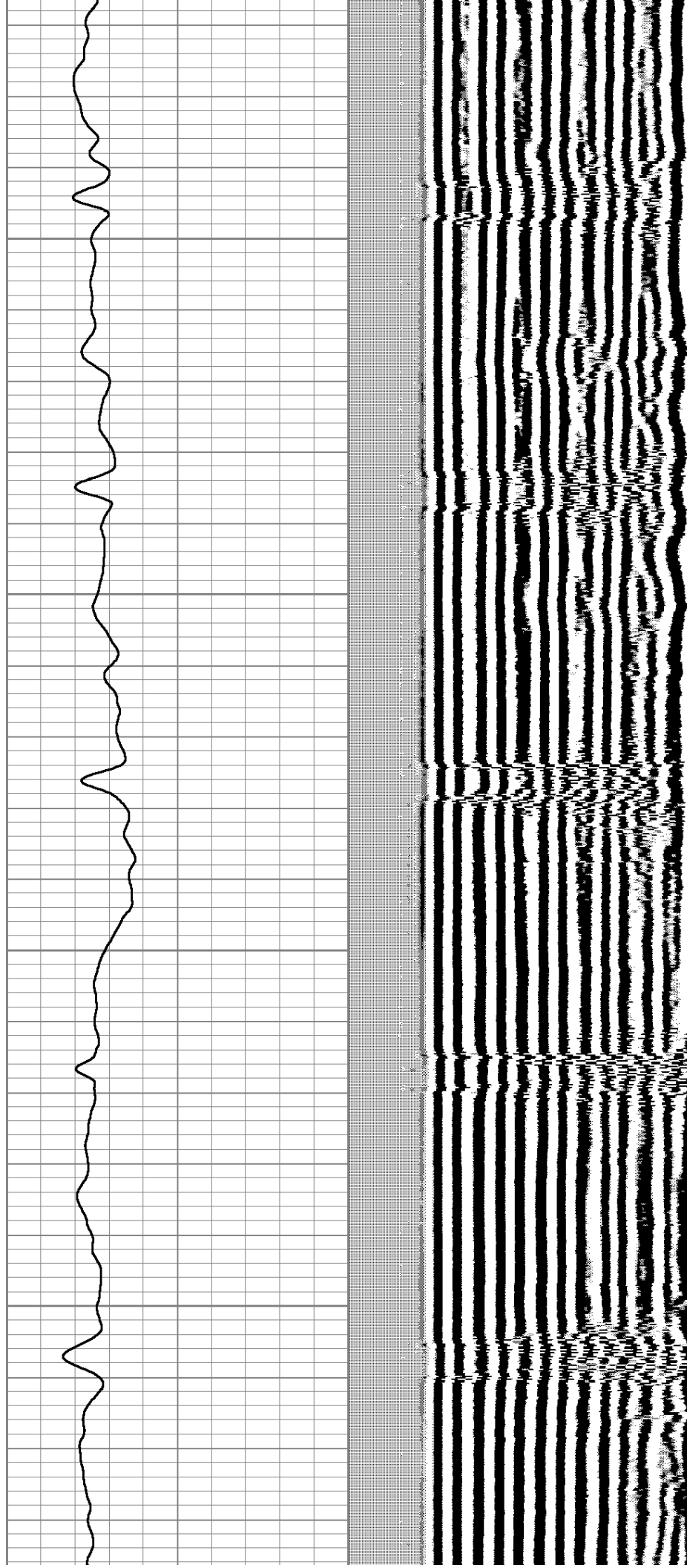


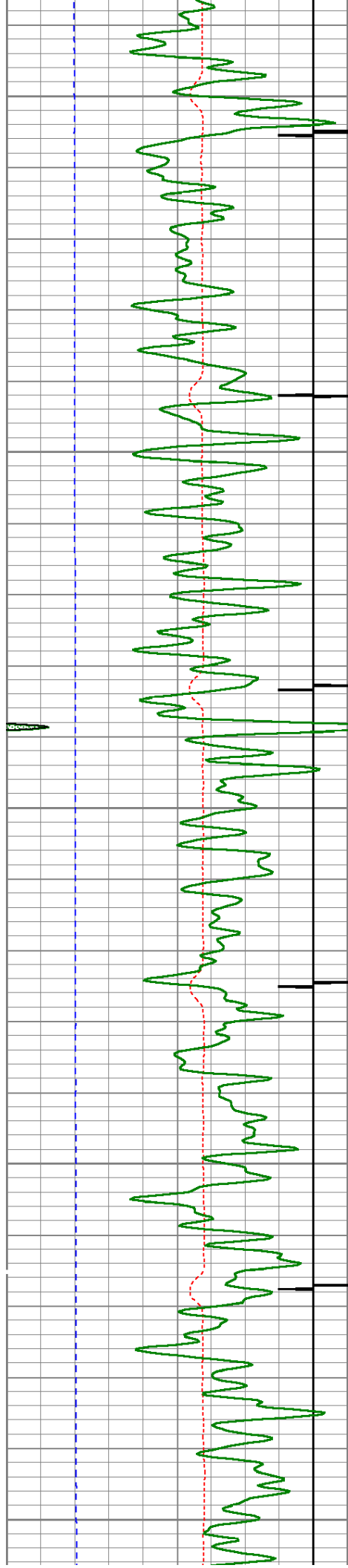
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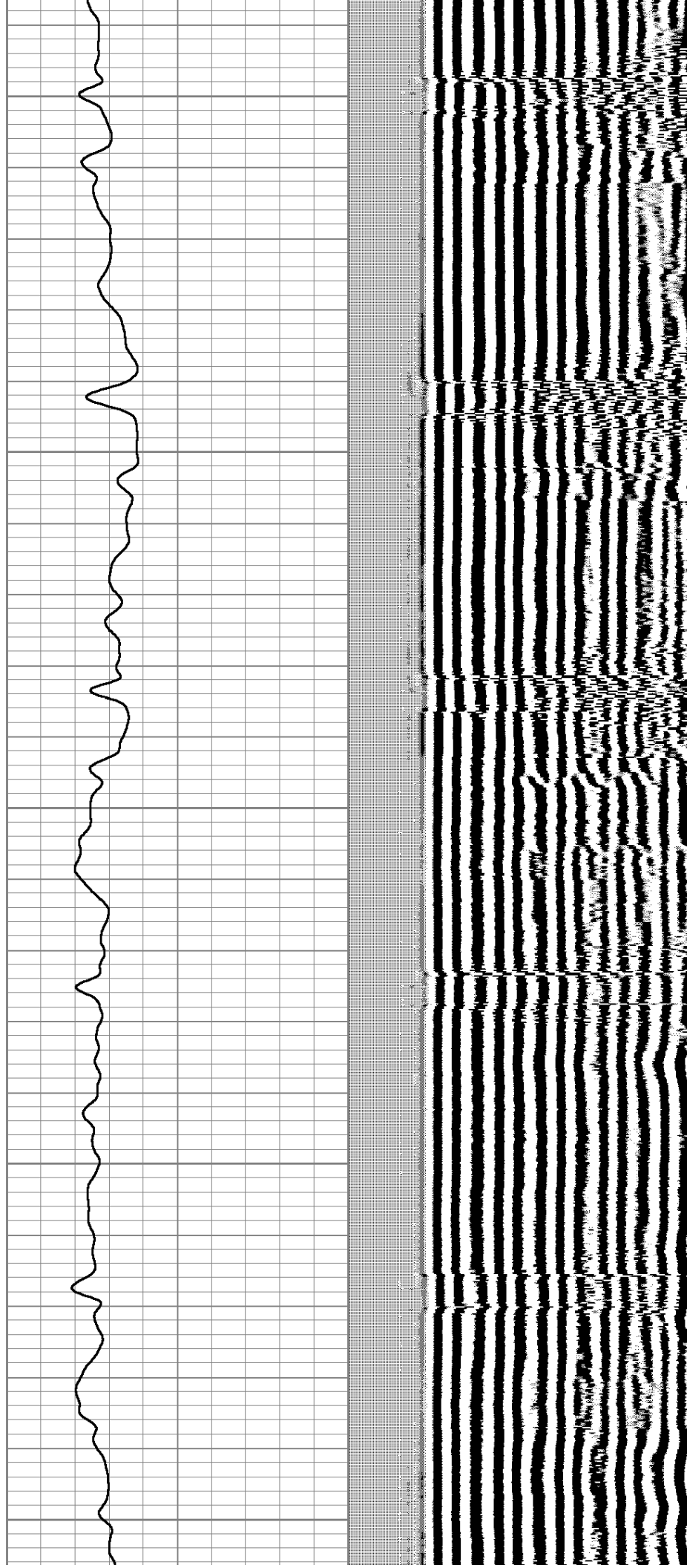
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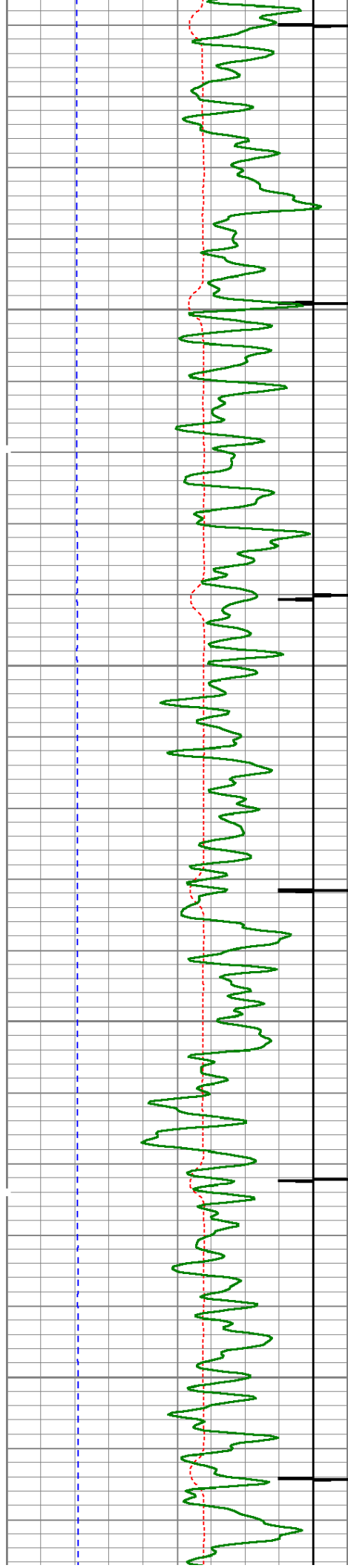
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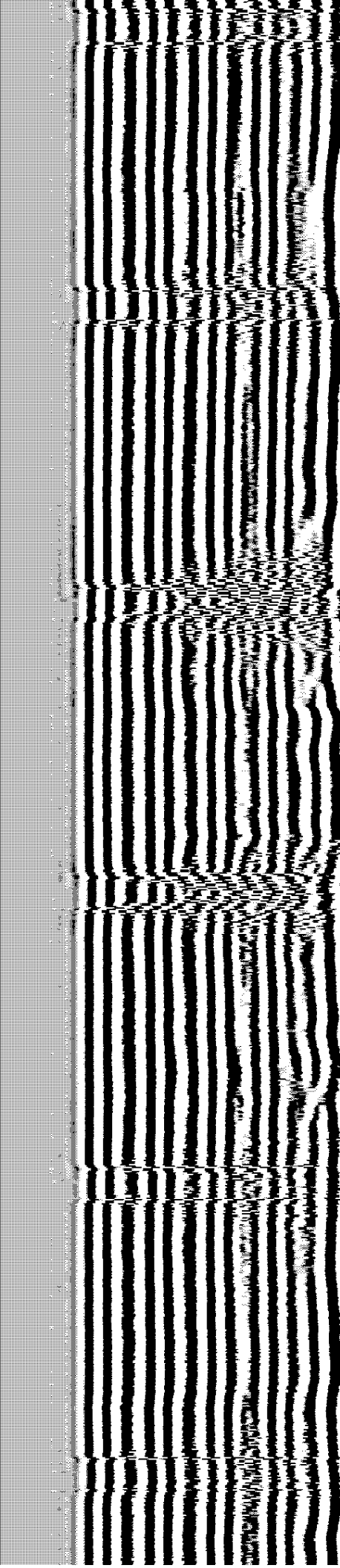
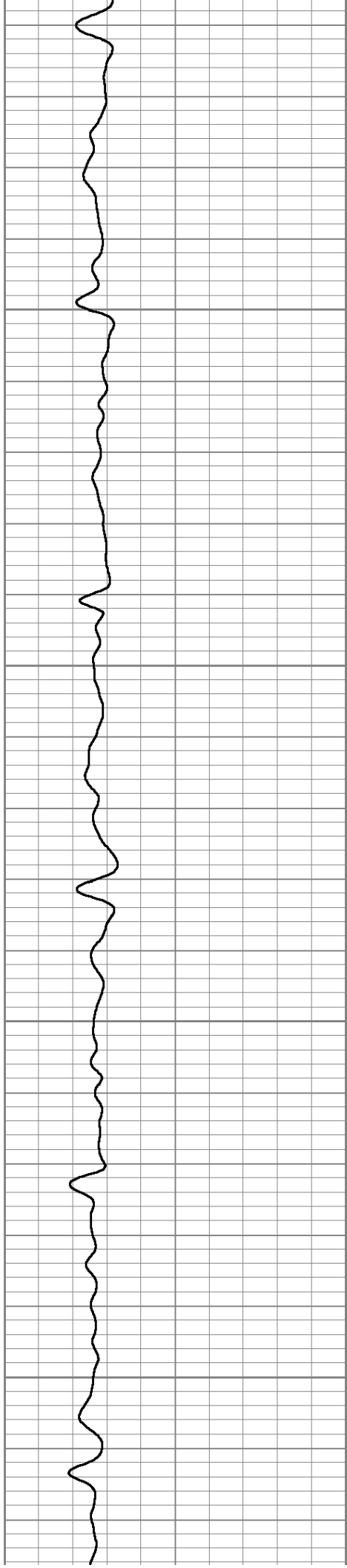


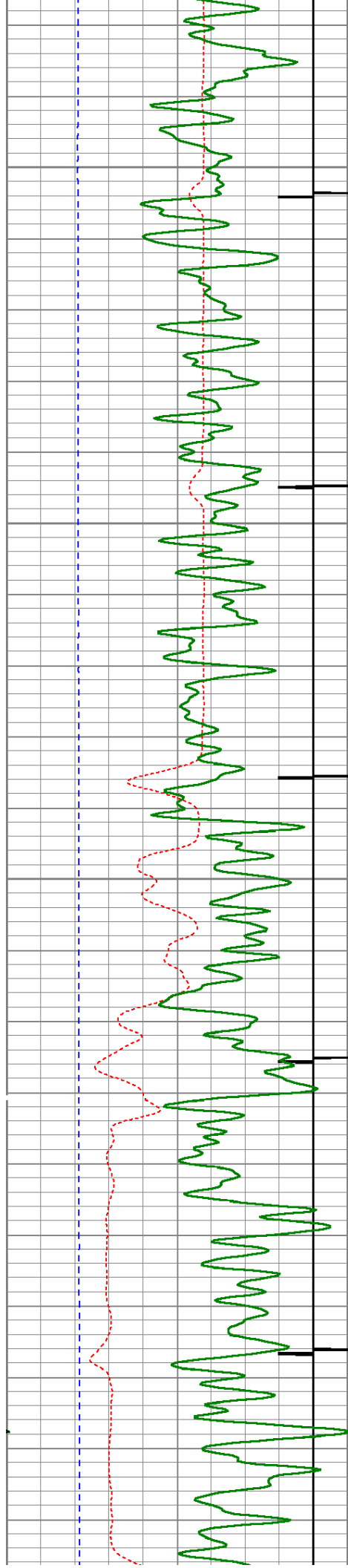
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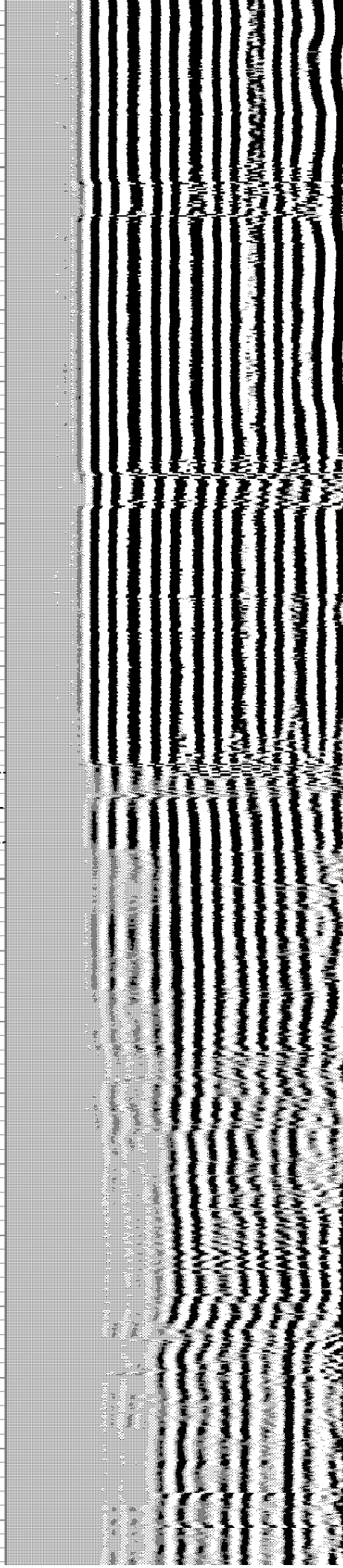
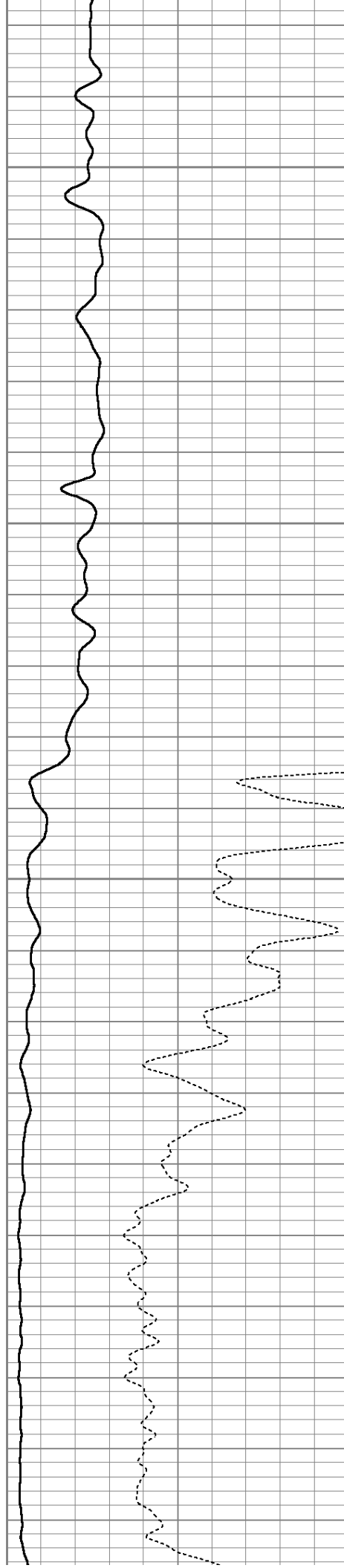


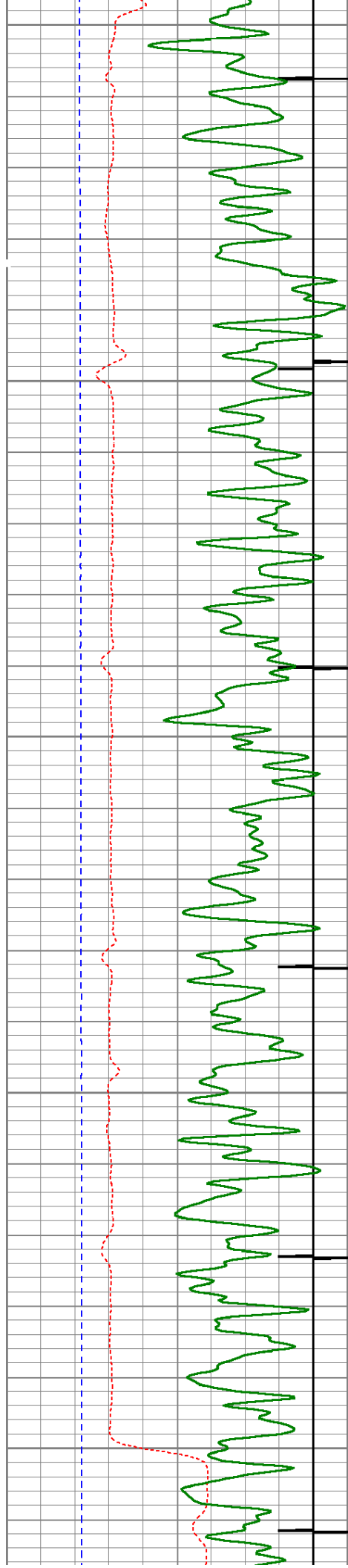
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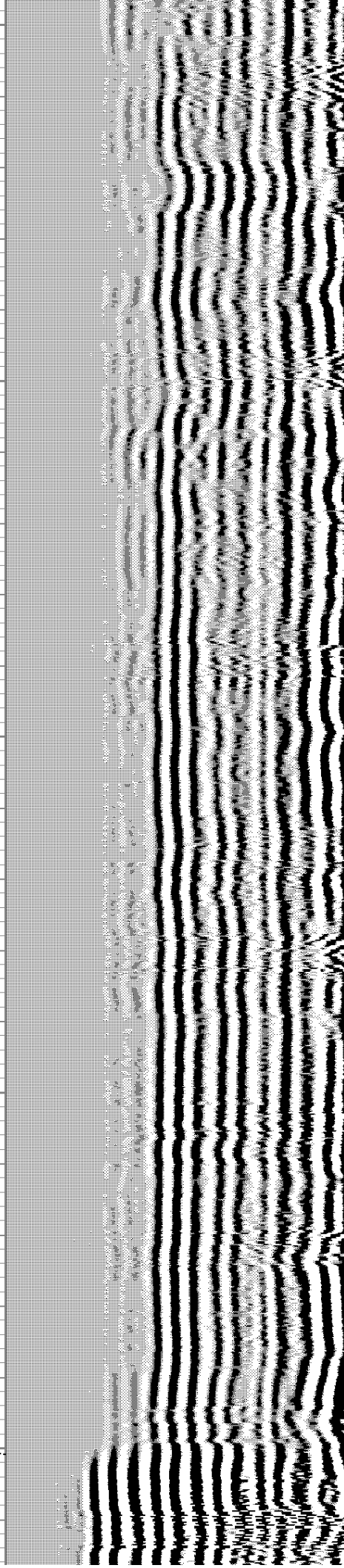
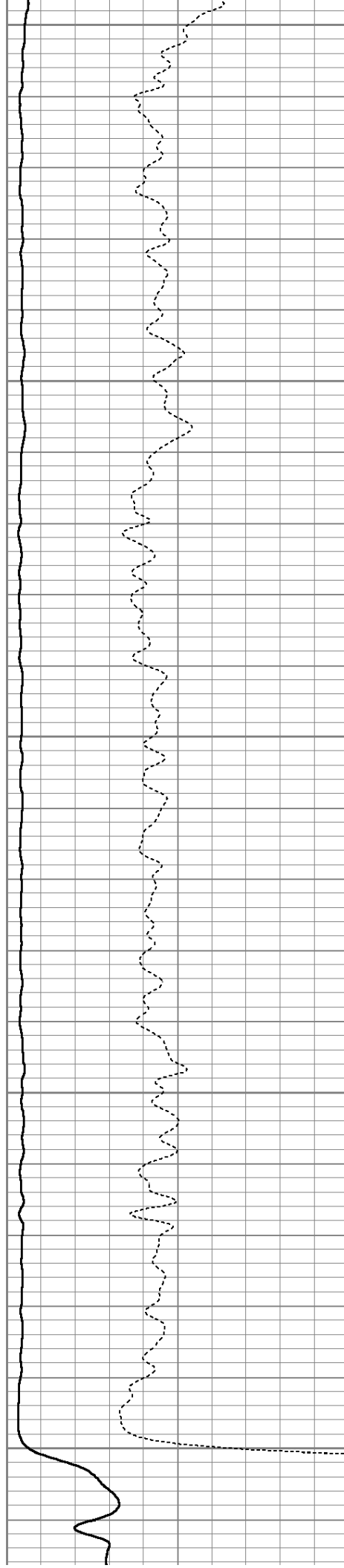
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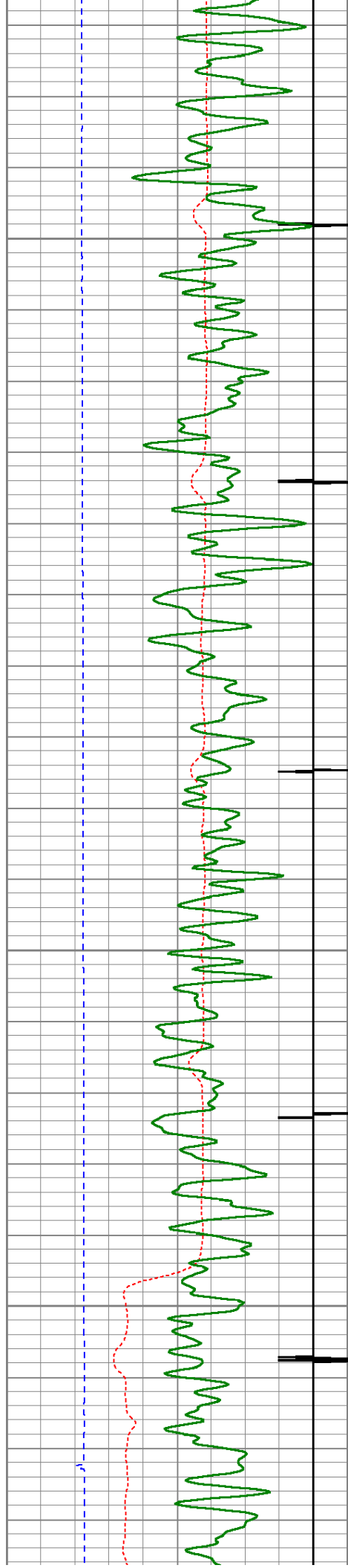
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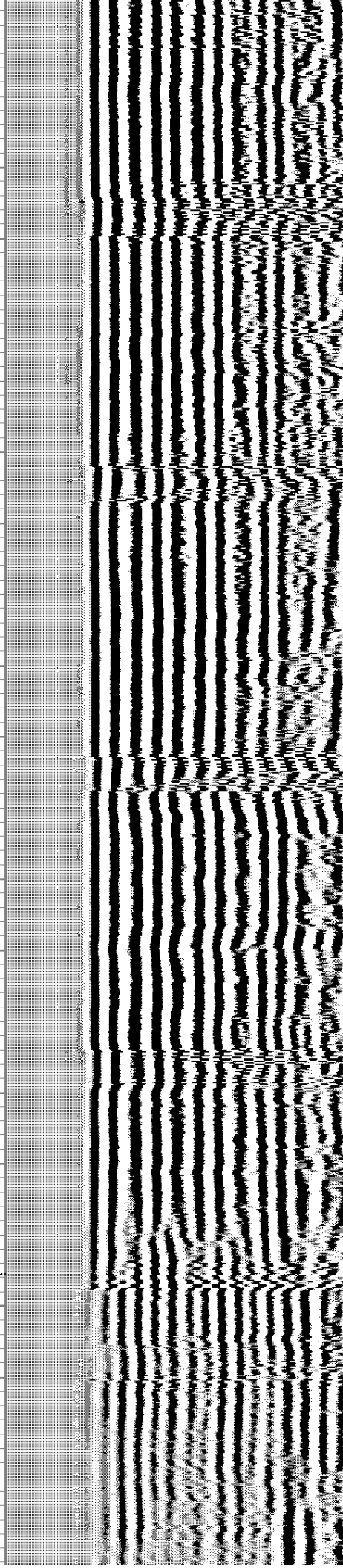
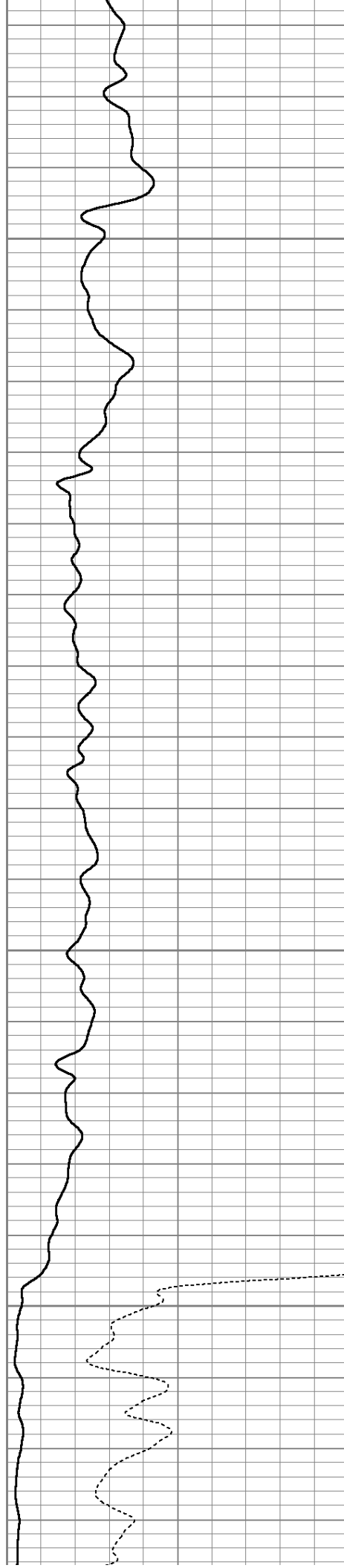


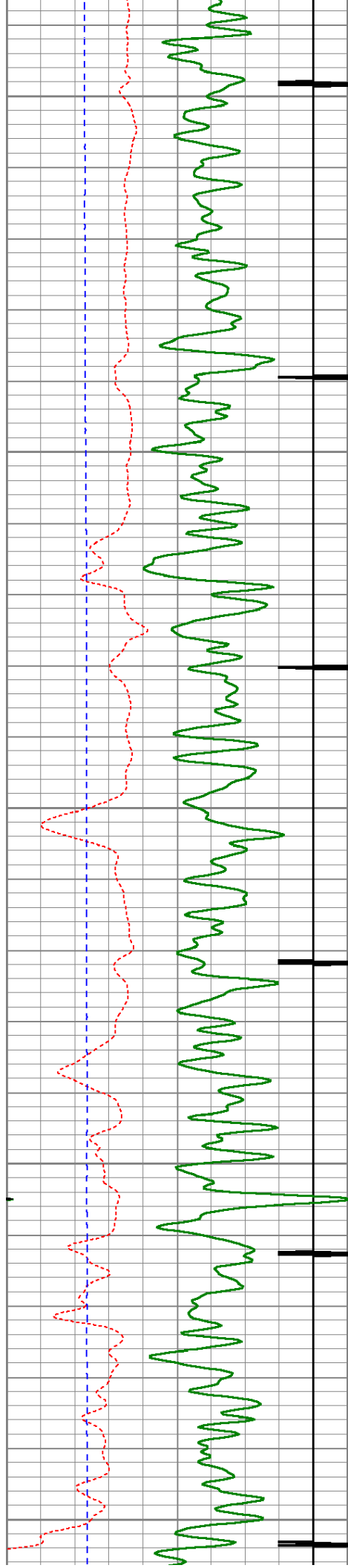
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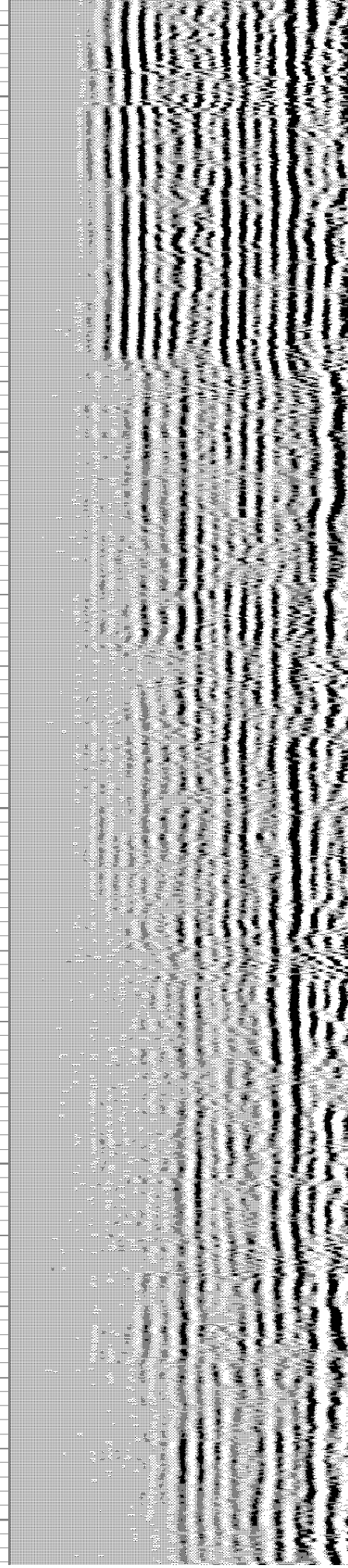
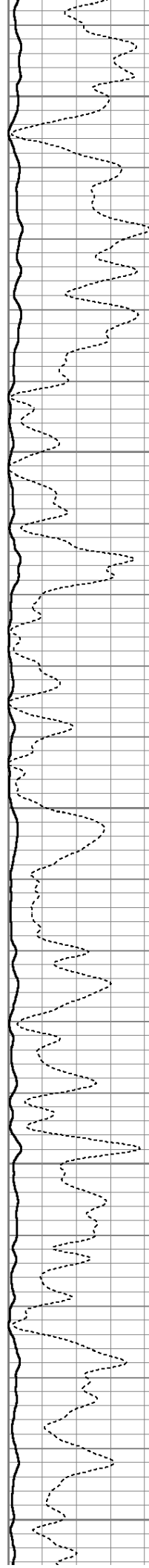
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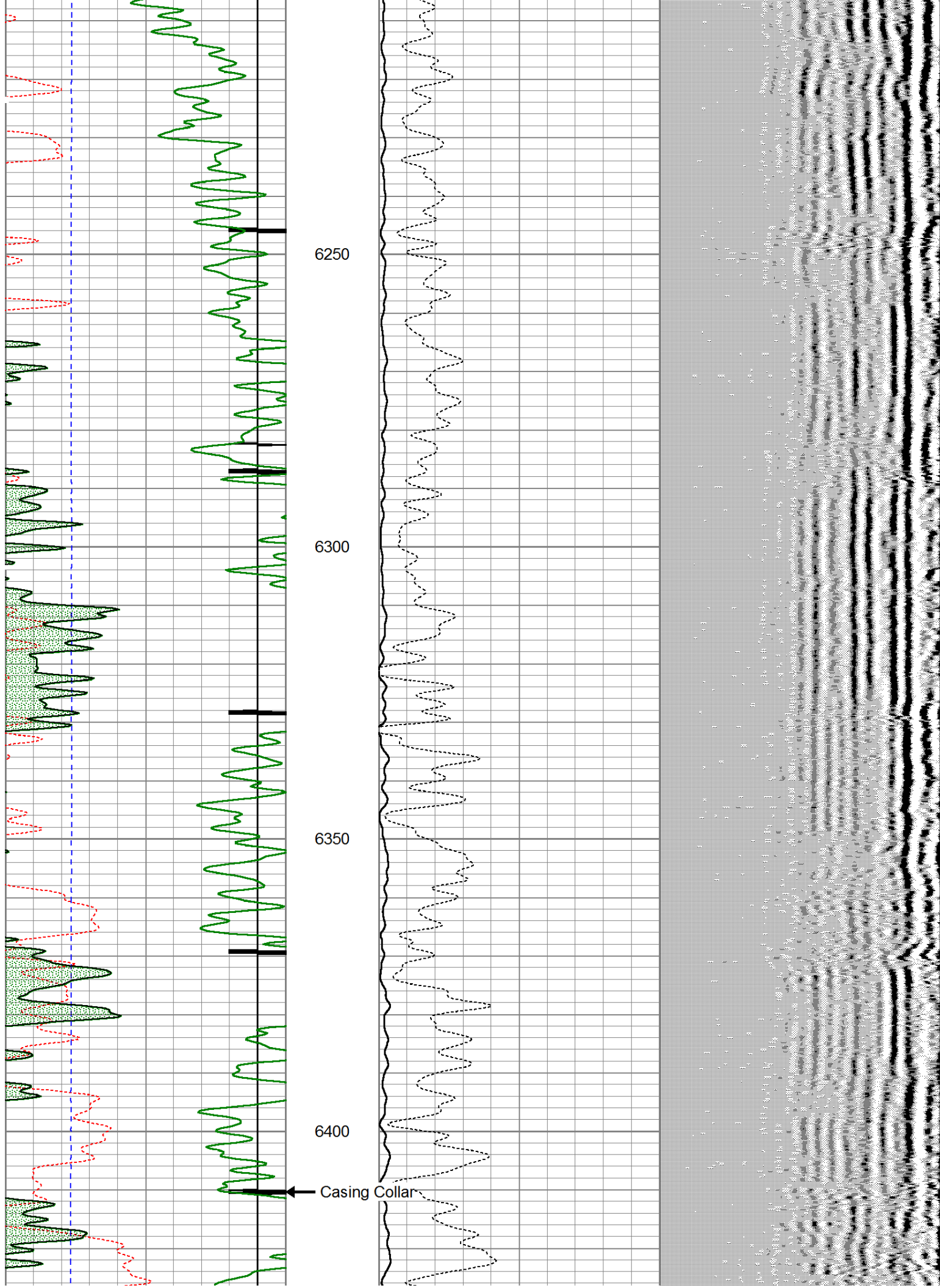
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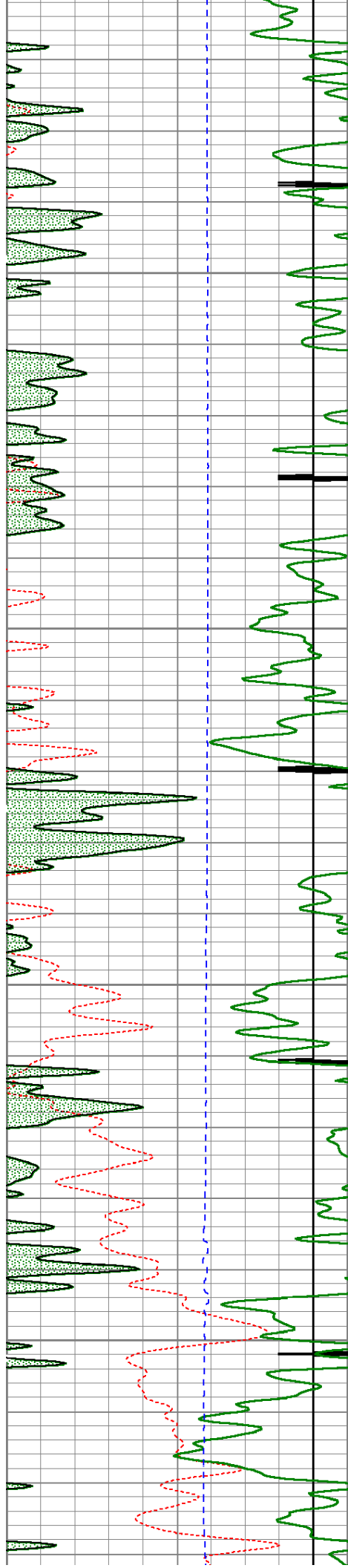
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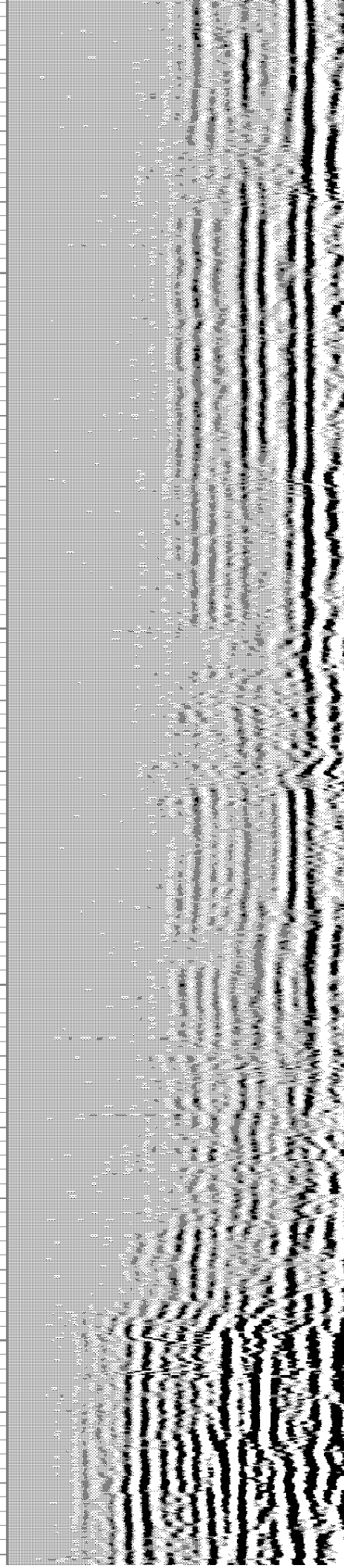
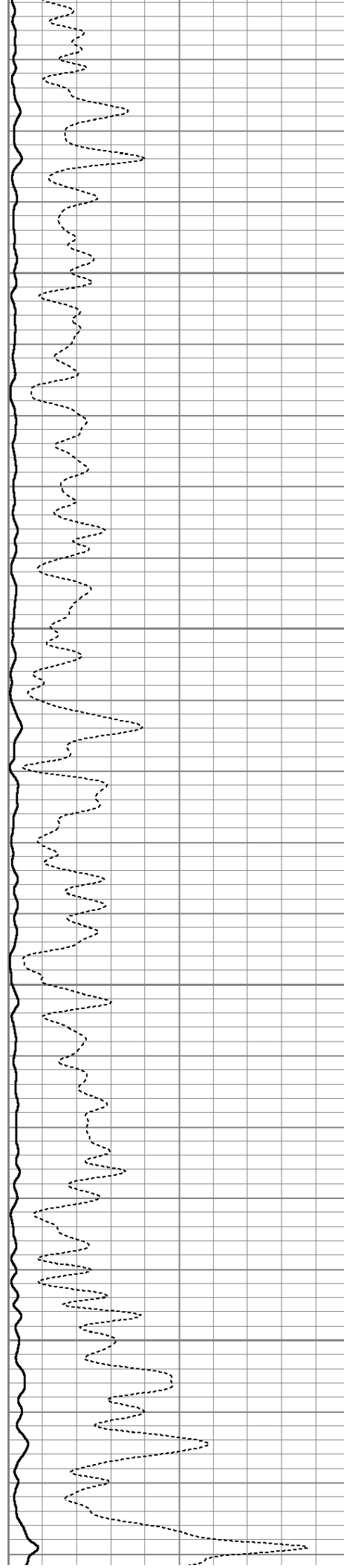


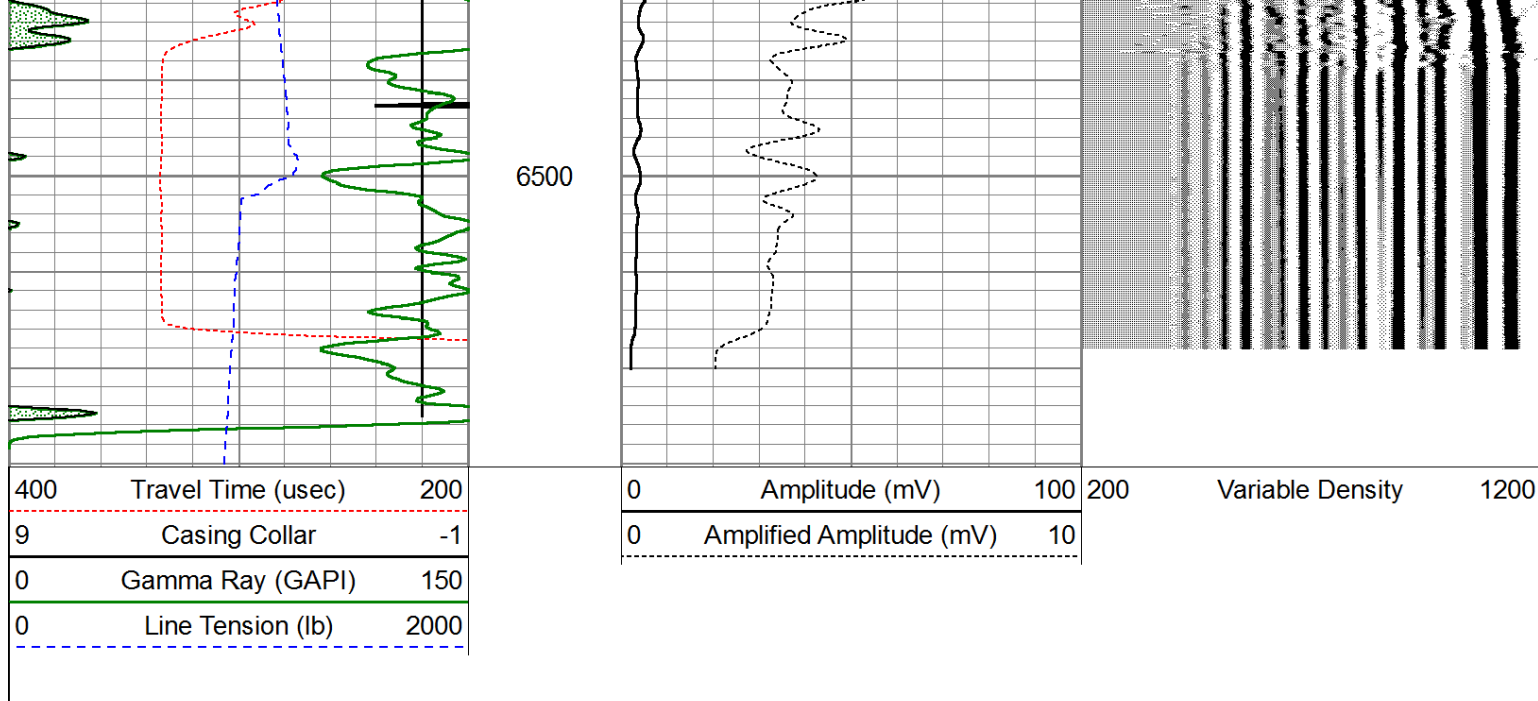
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6450





Calibration Report

Database File: bonanaza_creek_antelope_41_44_30hnbcbf.db
 Dataset Pathname: pass4
 Dataset Creation: Fri Jul 05 18:08:17 2013 by Log 0

Temperature Calibration Report

Serial Number: 101234
 Tool Model: 1.375TEMP
 Performed: Tue Apr 30 07:40:44 2013

	Reference	Reading
Low Reference:	1.00 degF	10.00 cps
High Reference:	1.00 degF	10.00 cps
Gain:	0.10	
Offset:	0.00	
Delta Spacing	2	

Gamma Ray Calibration Report

Serial Number: 110108-Dig
 Tool Model: Probe275
 Performed: Mon Jul 01 16:56:15 2013

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: 101224
 Tool Model: Probe

Calibration Casing Diameter: 7.000 in
 Calibration Depth: 643.233 ft

Master Calibration, performed Fri Jul 05 17:25:10 2013:

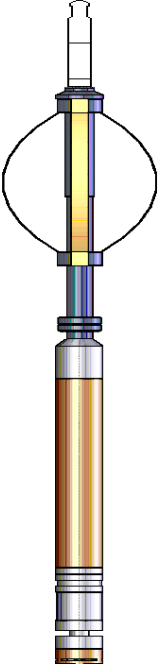
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.016	0.723	0.700	62.165	64.176	2.054
CAL	0.720	1.229				
5'	-0.015	0.606	0.700	62.165	98.883	2.232
SUM						
S1	-0.019	0.846	0.000	100.000	115.546	2.250
S2	-0.011	0.724	0.000	100.000	135.935	1.528
S3	-0.017	0.597	0.000	100.000	162.746	2.781
S4	-0.016	0.586	0.000	100.000	165.897	2.706
S5	-0.015	0.624	0.000	100.000	156.581	2.359
S6	-0.015	0.692	0.000	100.000	141.449	2.143
S7	-0.017	0.772	0.000	100.000	126.758	2.115
S8	-0.016	0.854	0.000	100.000	114.838	1.871

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	0.720	1.229	1.000	0.000

Air Zero Calibration, performed Fri Jul 05 17:03:23 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
			Probe275 2.75" Centralizer	2.88	2.75	20.00

Tool Name	Start Depth (ft)	End Depth (ft)	Length (ft)	Weight (lb)	O.D. (in)
WVF3FT	13.09				
WVFCAL	13.09				
WVFS1	13.09				
WVFS2	13.09				
WVFS3	13.09				
WVFS4	13.09				
WVFS5	13.09				
WVFS6	13.09				
WVFS7	13.09				
WVFS8	13.09				
WVF5FT	12.09				
RBT-Probe (101224) Probe Radii Bond Tool with Digital Telemetry			8.75	2.75	90.00
Probe275 2.75" Centralizer			2.88	2.75	20.00
CCL	5.13				
GR	3.79				
GR-Probe275 (110108-Dig) Probe 2 3/4" Logging Gamma Ray			4.78	2.75	57.00
Temp-1.375TEMP (101234) Temperature Tool			1.25	1.38	30.00
TEMP	0.08				

Dataset: bonanaza_creek_antelope_41_44_30hnbcbI.db: field/well/run1/pass4

Total Length: 21.53 ft

Total Weight: 227.00 lb

O.D.: 2.75 in