



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

Company	Bonanza CreekEnergy	Company	Bonanza CreekEnergy
Well	State Pronghorn F-J-16HNB	Well	State Pronghorn F-J-16HNB
Field	Wildcat	Field	Wildcat
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:		API # :	Other Services
SEC 16 TWP 5 N RGE 61 W			
370' FNL & 1259' FWL			
Permanent Datum	Ground Level	Elevation	4638'
Log Measured From	Kelly Bushing	15' APD	
Drilling Measured From	Kelly Bushing		
Date	02-March-2013		
Run Number	One		
Depth Driller	10883'		
Depth Logger	6215'		
Bottom Logged Interval	6200		
Top Log Interval	Surface		
Open Hole Size	8 3/4"		
Type Fluid	Water		
Density / Viscosity	-		
Max. Recorded Temp.	-		
Estimated Cement Top	NA		
Time Well Ready	0730		
Time Logger on Bottom	0838		
Equipment Number	Truck # 12029		
Location	Brighton, CO		
Recorded By	R.Grissom		
Witnessed By	Kurt Dodge		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
1	13.5"	Surface	410'
2	8.75"	410'	6537'
3	6.125"	6537'	10883'
Casing Record	Size	Wgt/Ft	Top
Surface String	9 5/8"	36#	Surface
Prot. String			
Production String	7"	26#	Surface
Liner	4.5"	11 6#	6437'

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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

Well logged using 15' KB

Main Pass and Repeat Pass logged with zero pressure on surface.

Your Crew Today: Grissom, Rall, Medina

Thank You for using Allied Wireline...!!!

(303) 659-4609



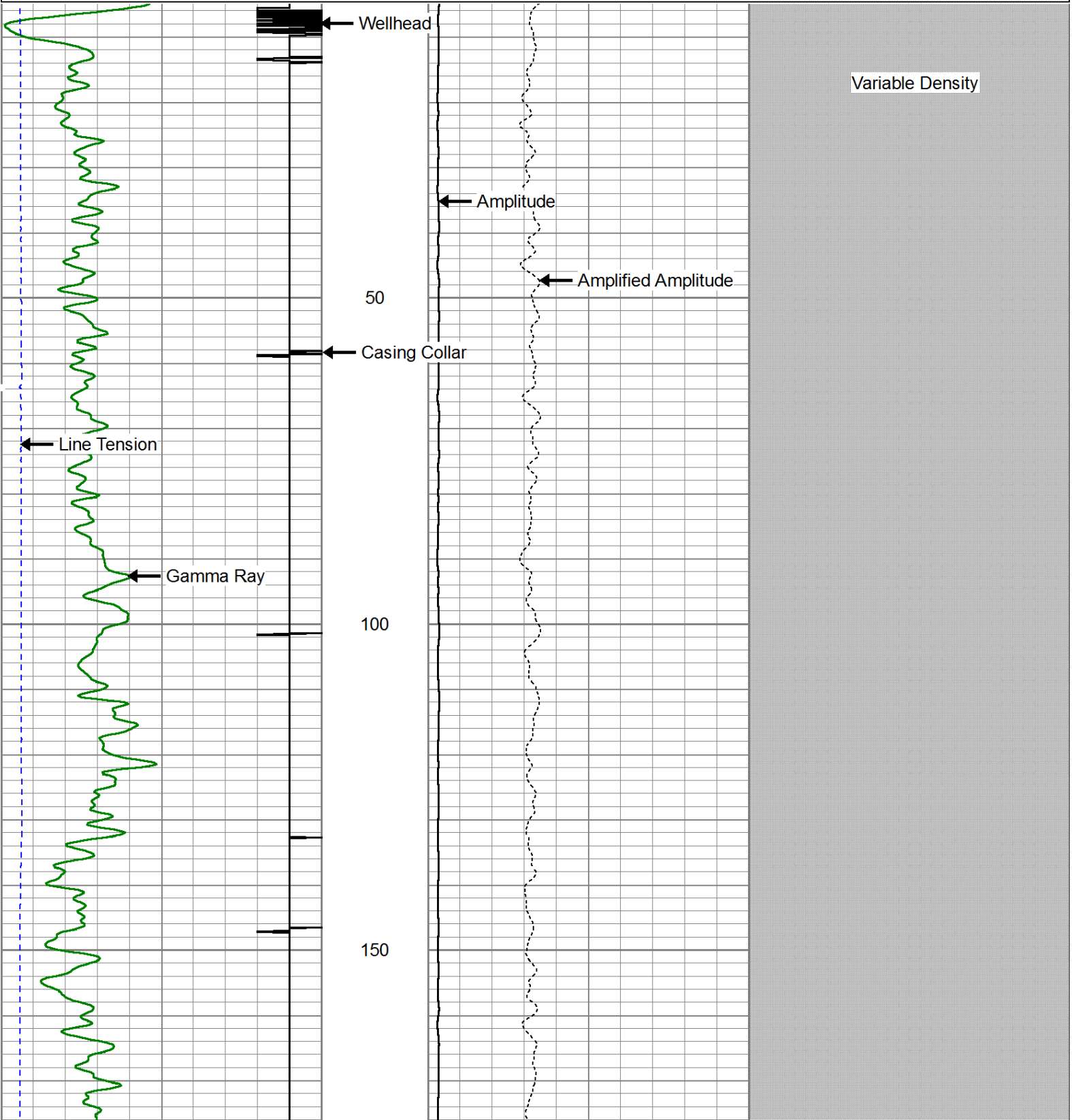
Main Pass (0 PSI)

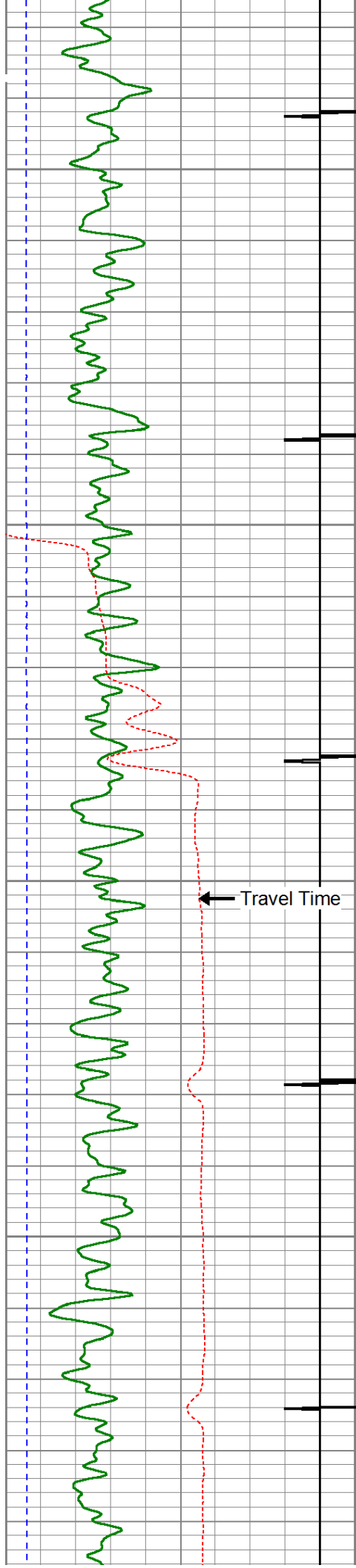
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Dataset Pathname: pass6
Presentation Format: cblprobe
Dataset Creation: Sat Mar 02 10:14:15 2013 by Calc SCH 120126
Charted by: Depth in Feet scaled 1:240

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





200

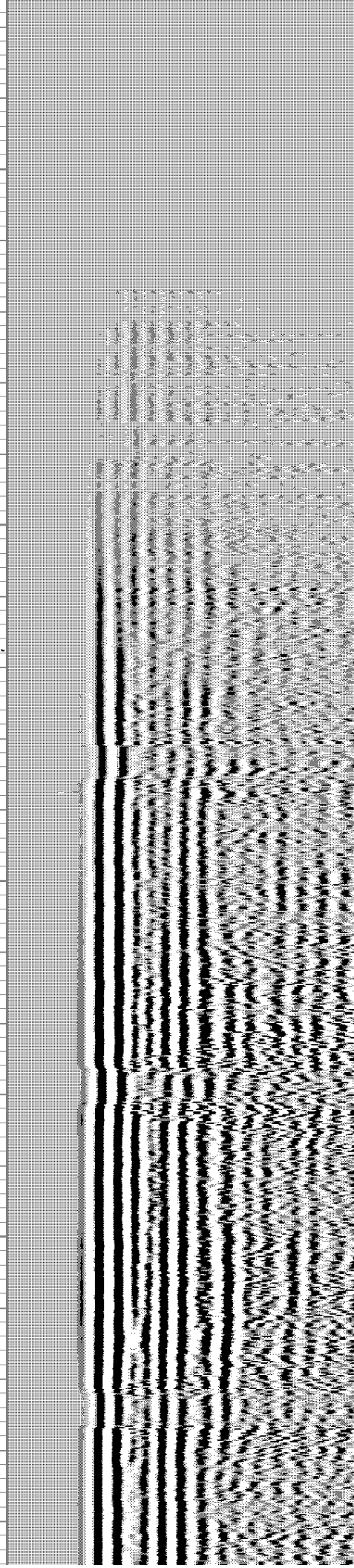
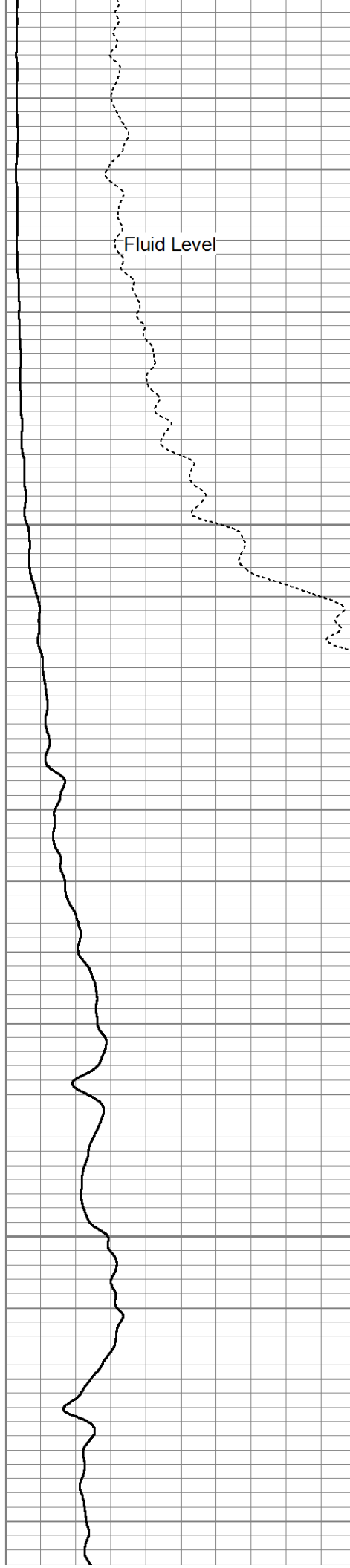
Fluid Level

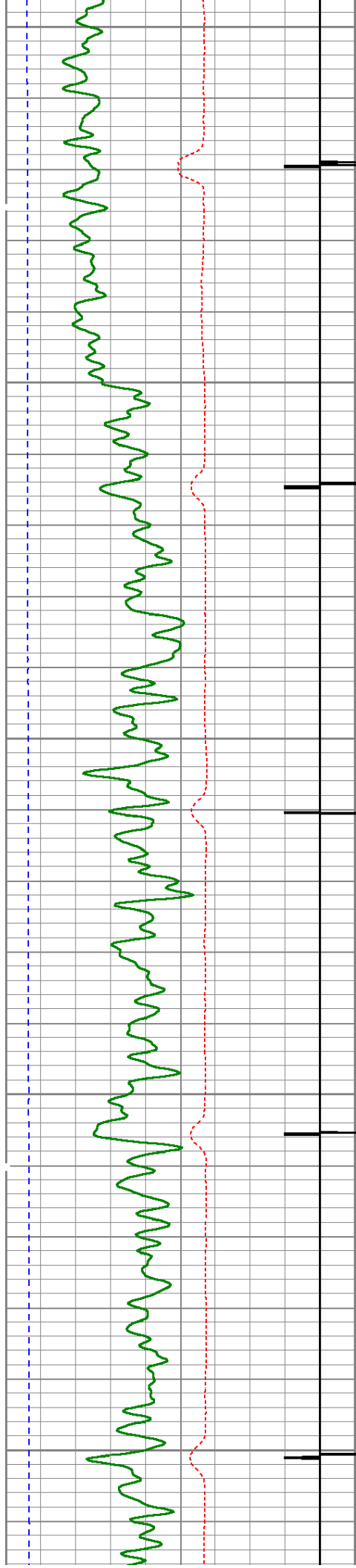
250

300

Travel Time

350





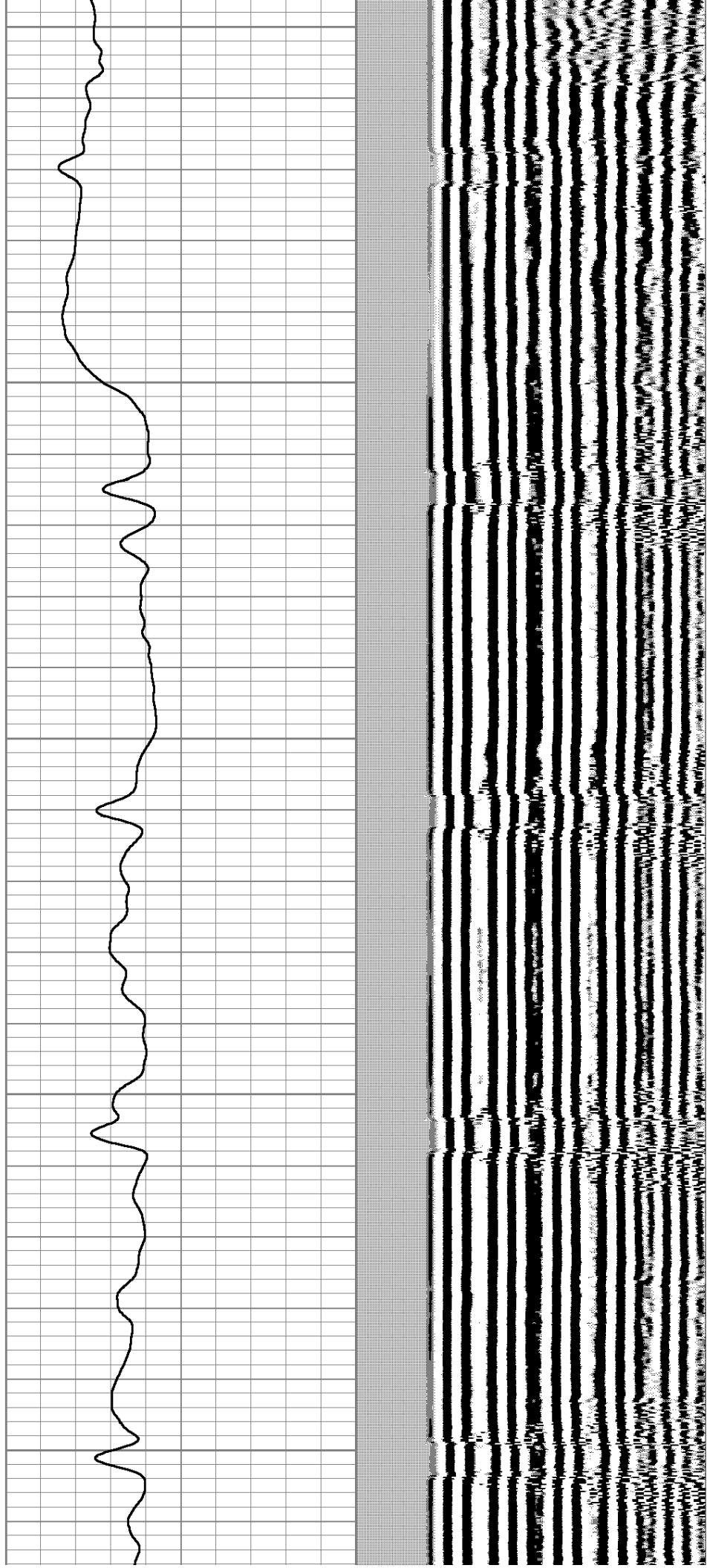
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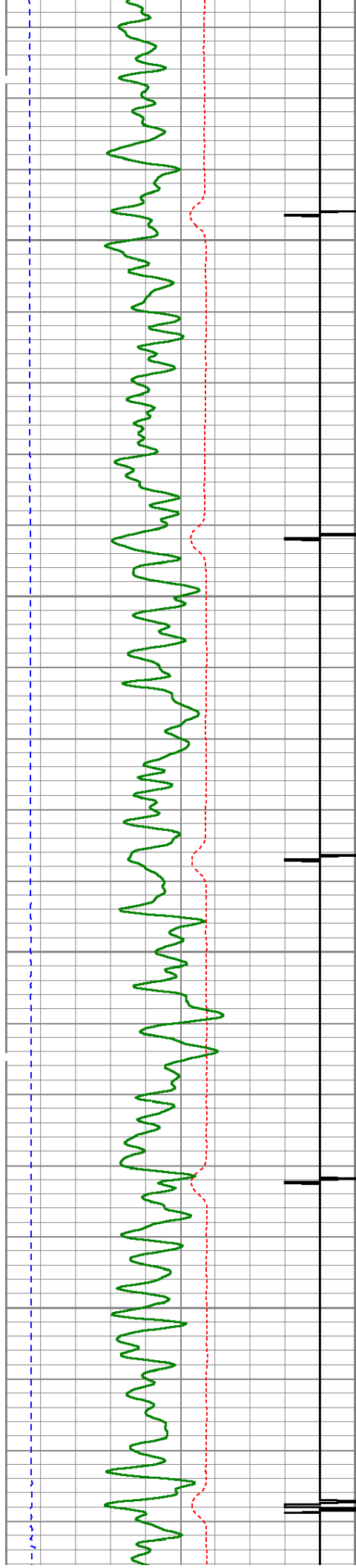
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500

550

600



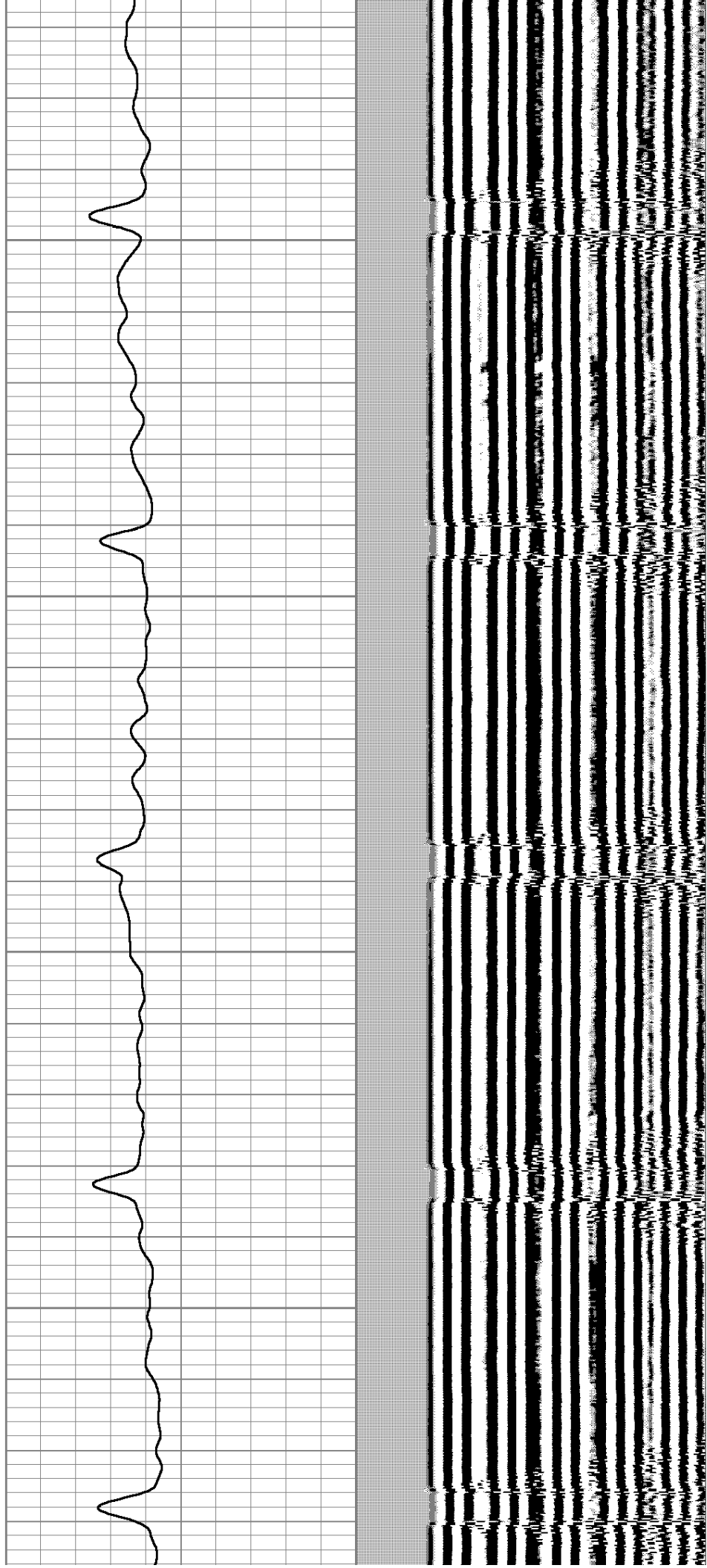


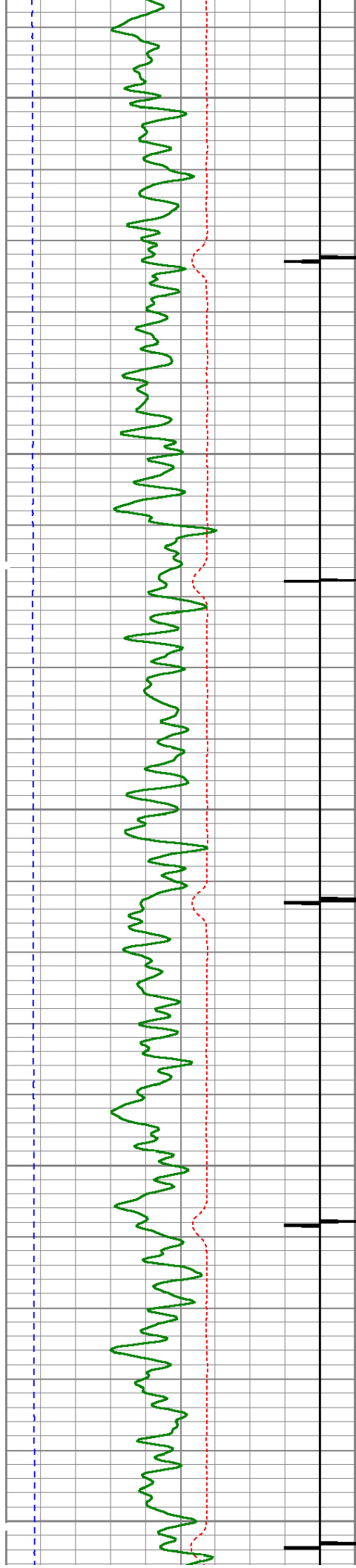
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700

750

800





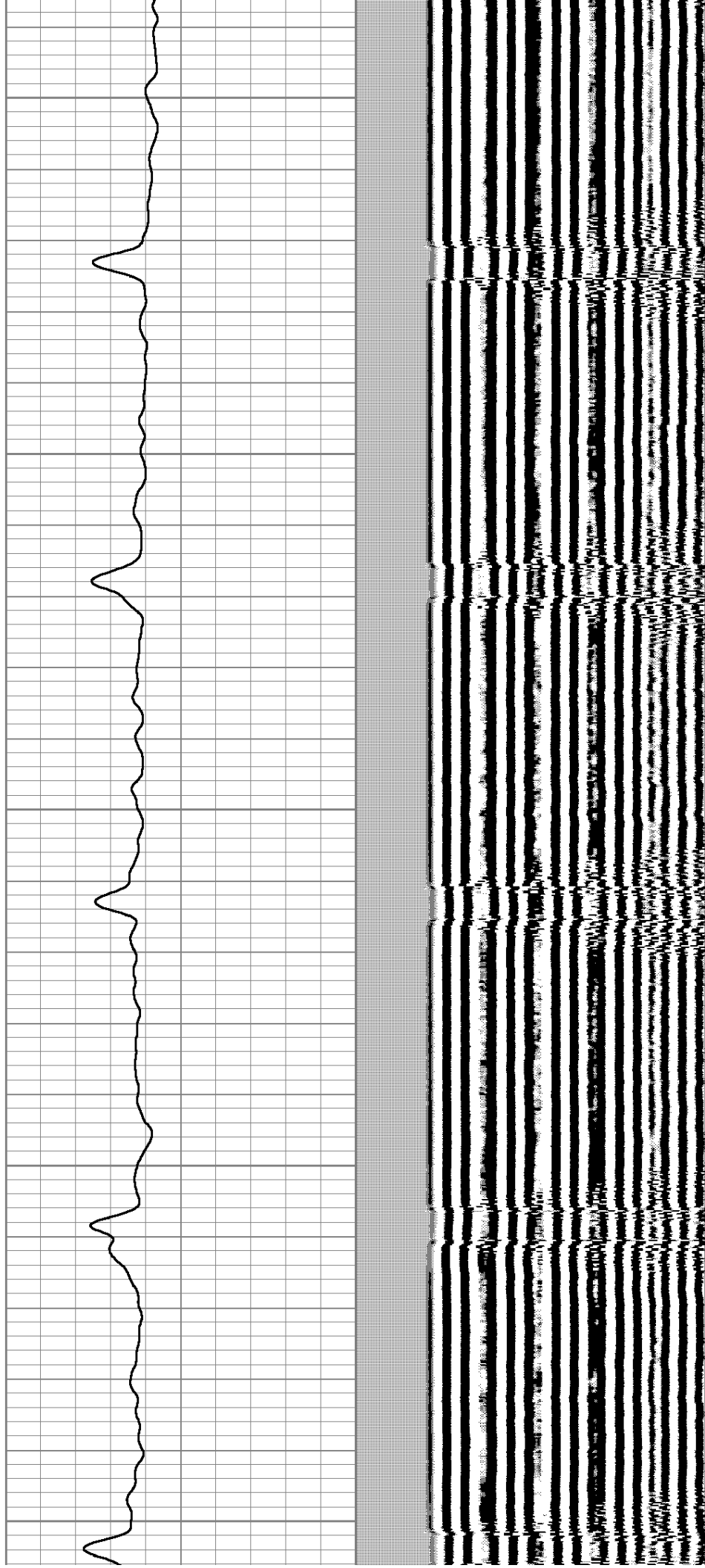
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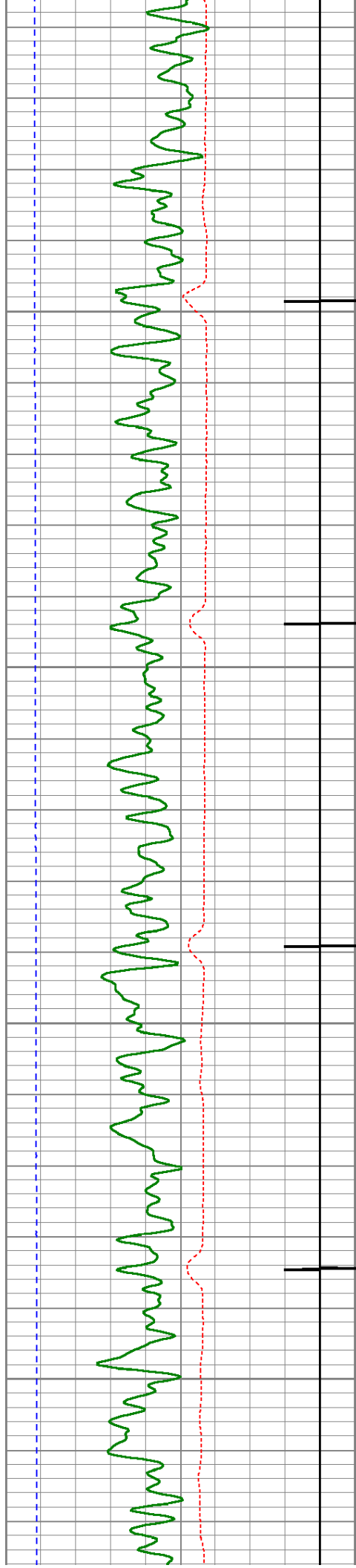
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950

1000

1050



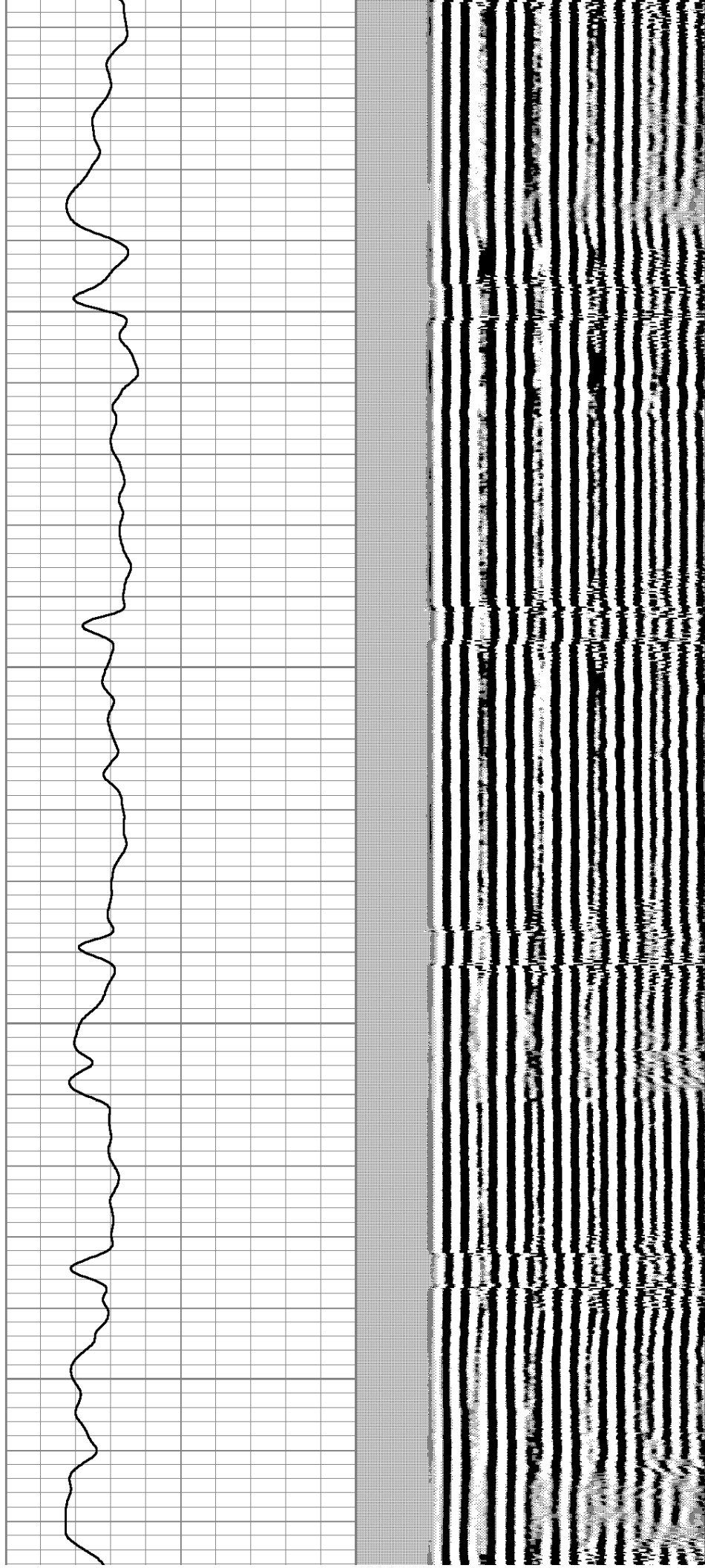


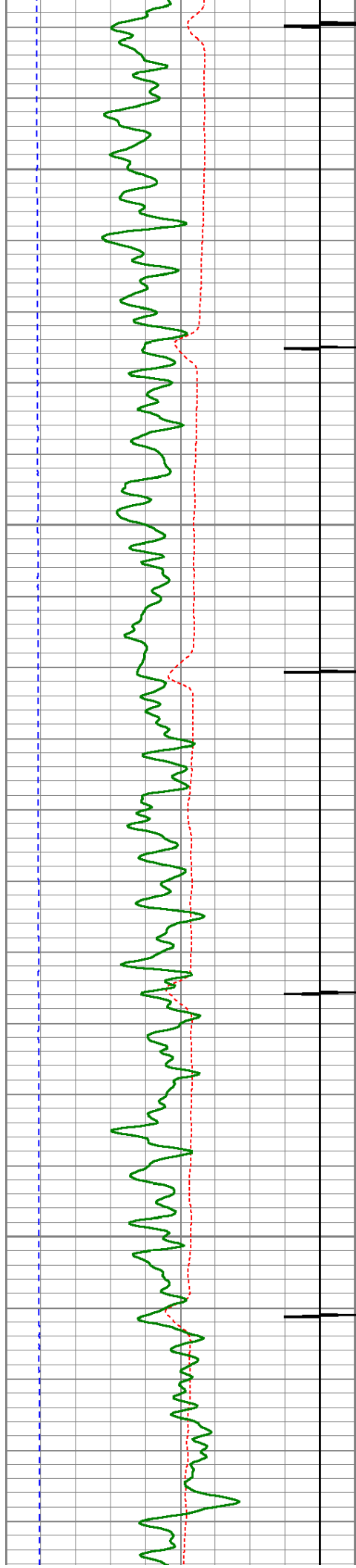
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1150

1200

1250



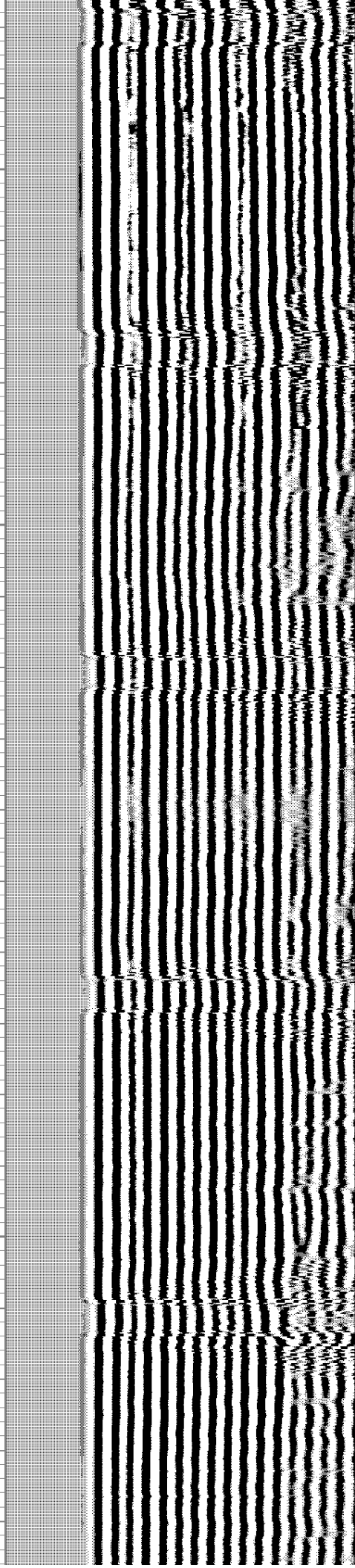
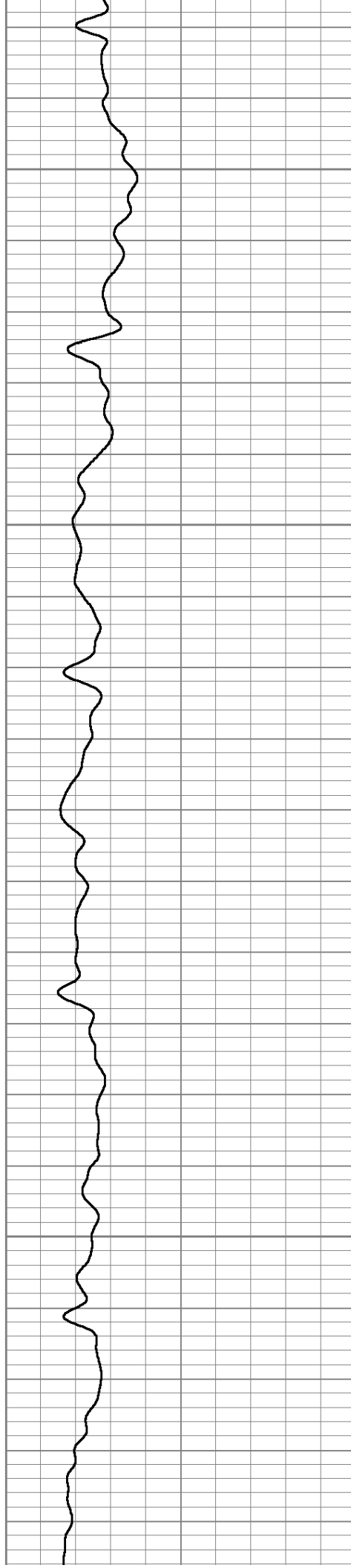


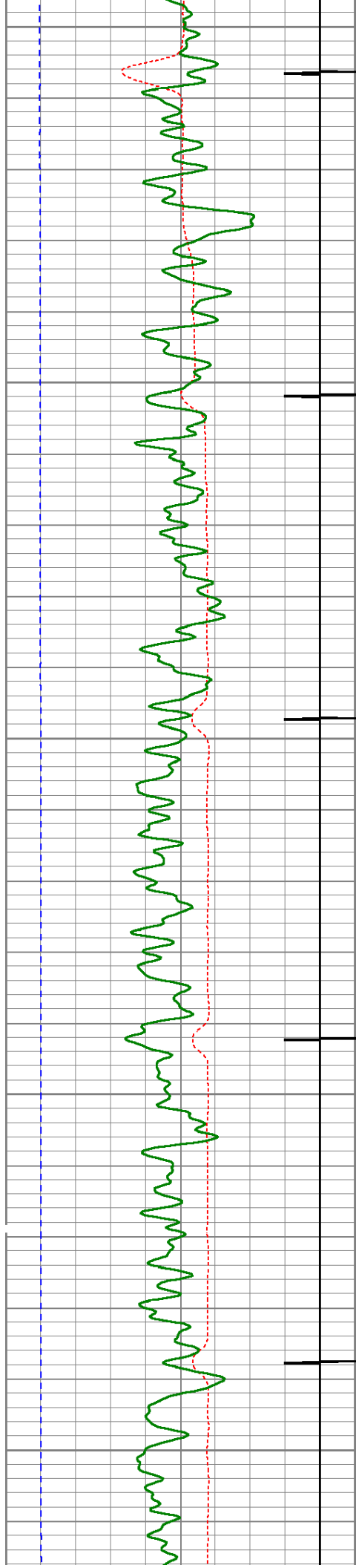
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1350

1400

1450





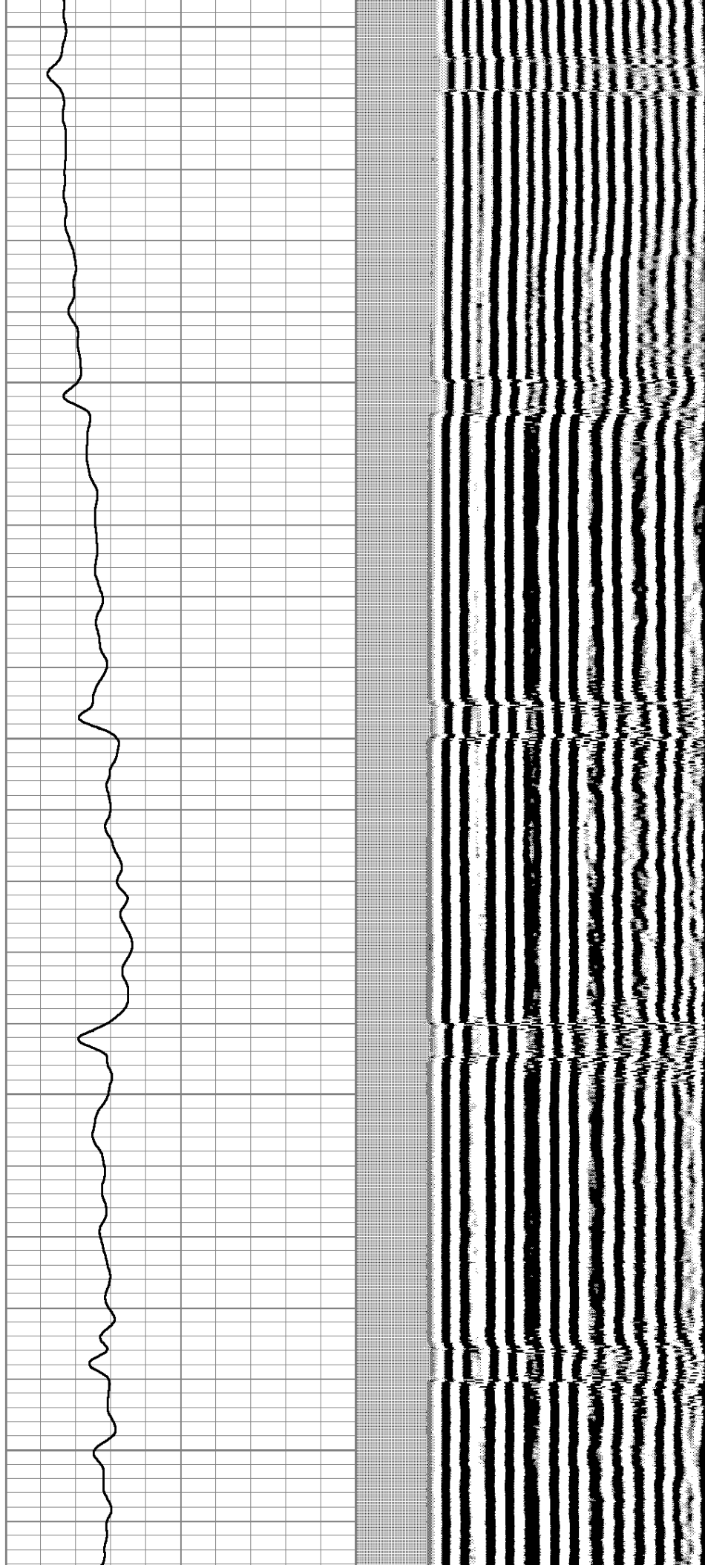
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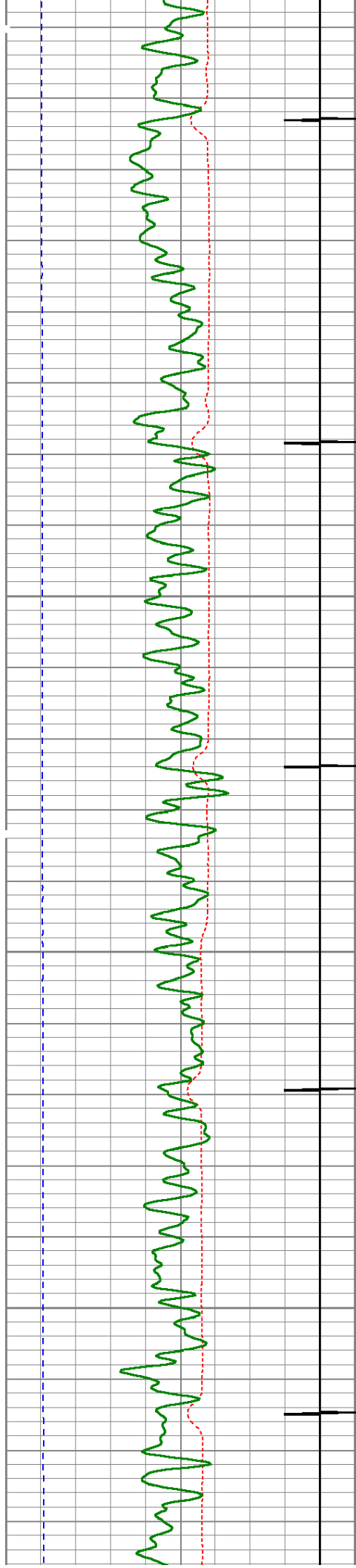
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1650

1700



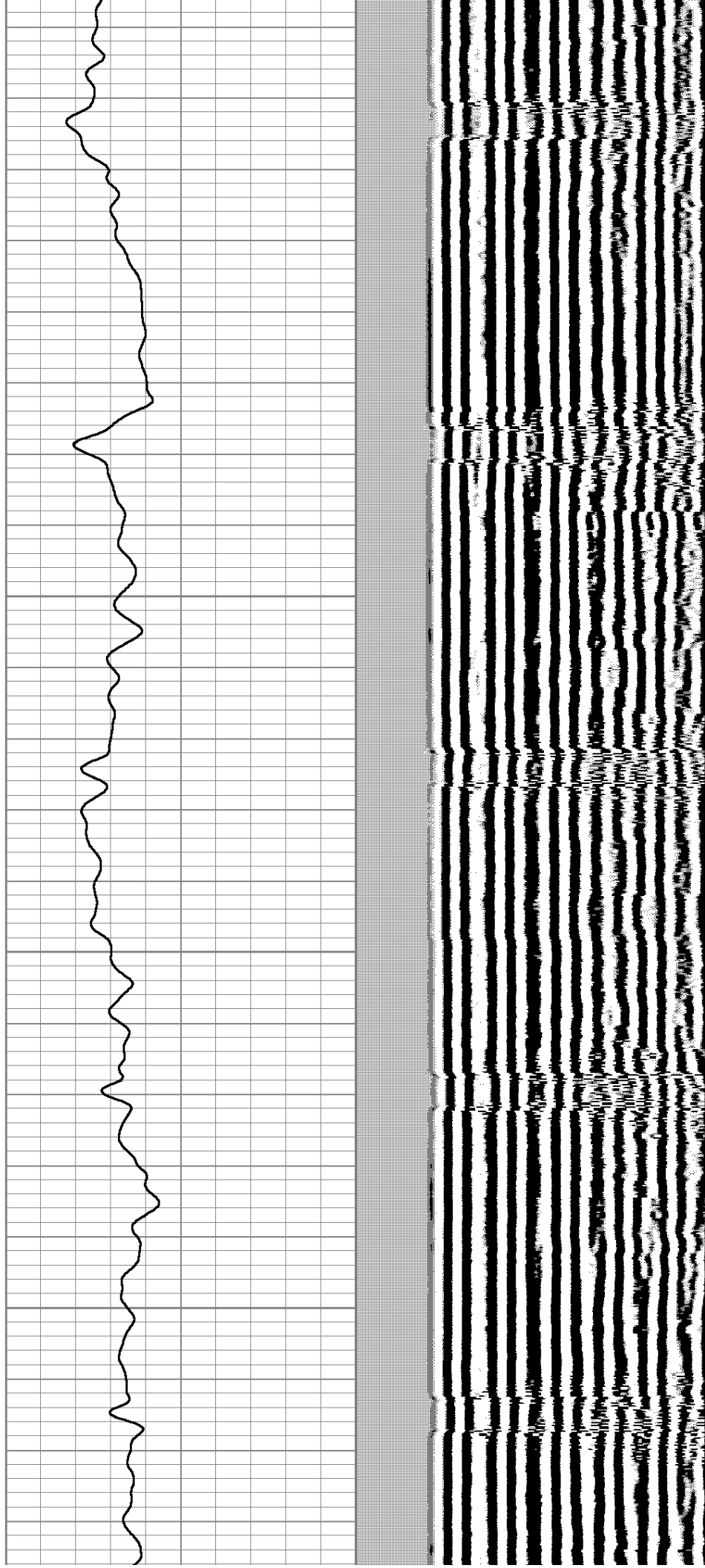


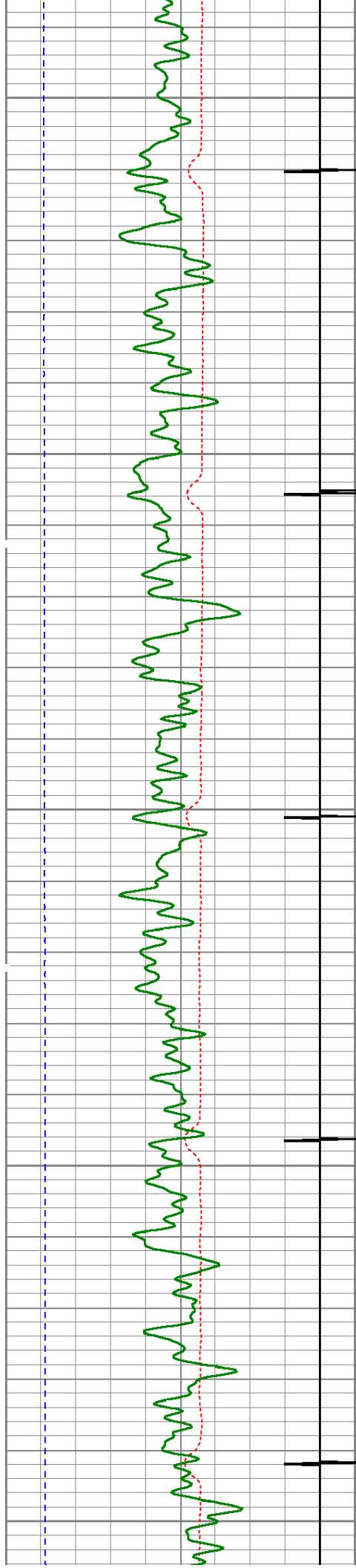
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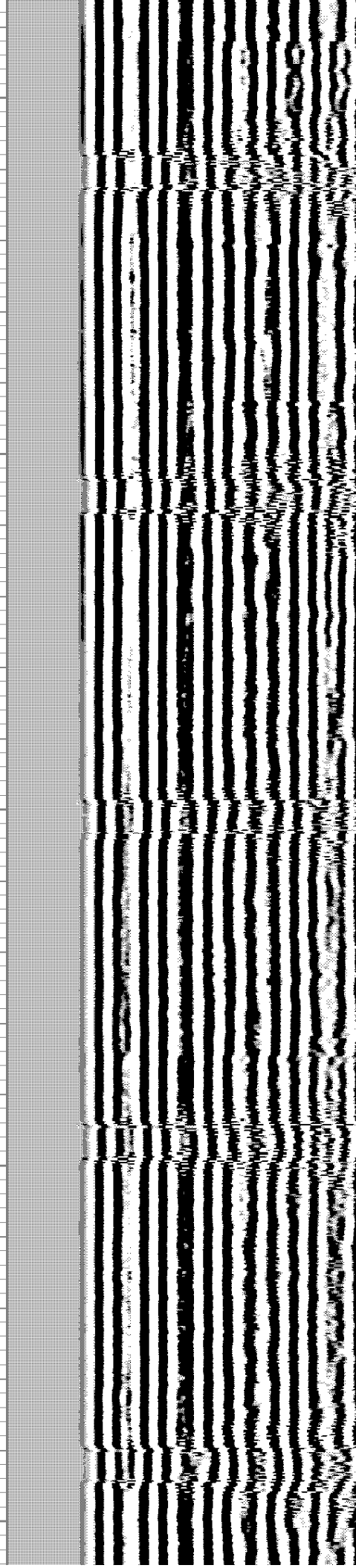
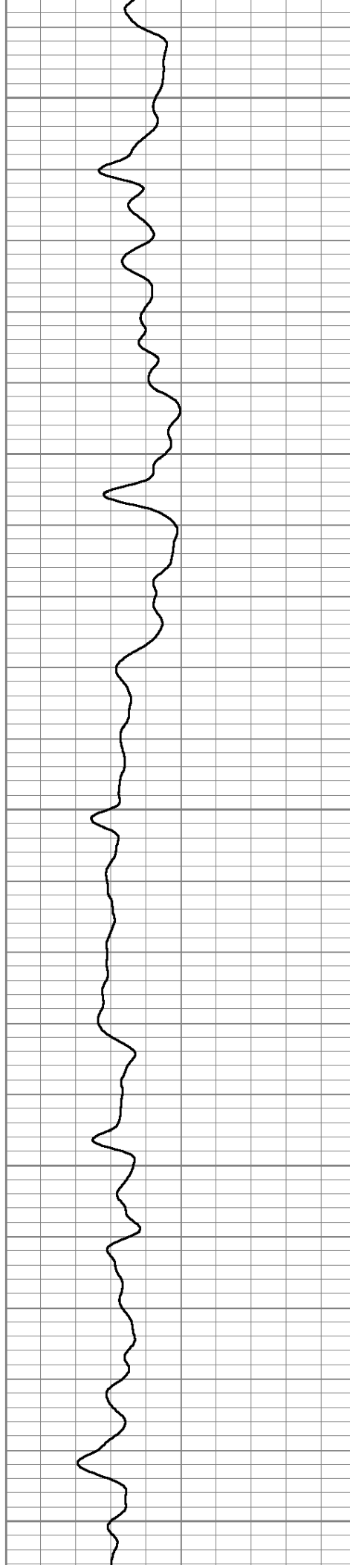
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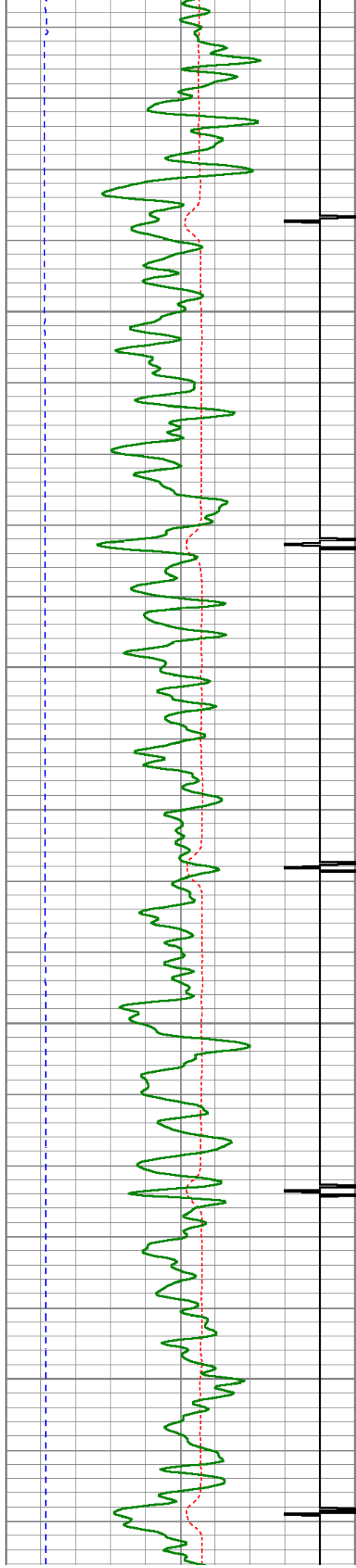
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2050

2100

2150



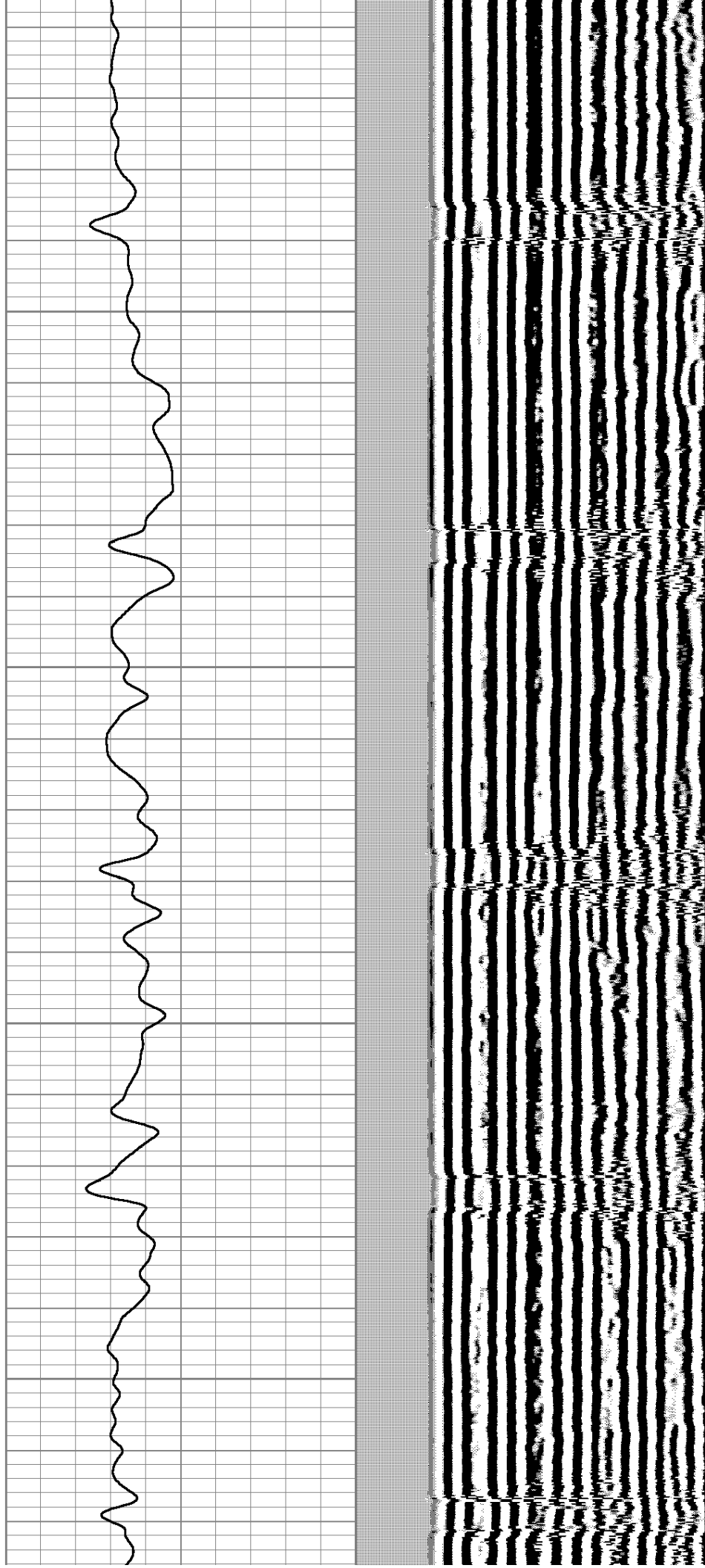


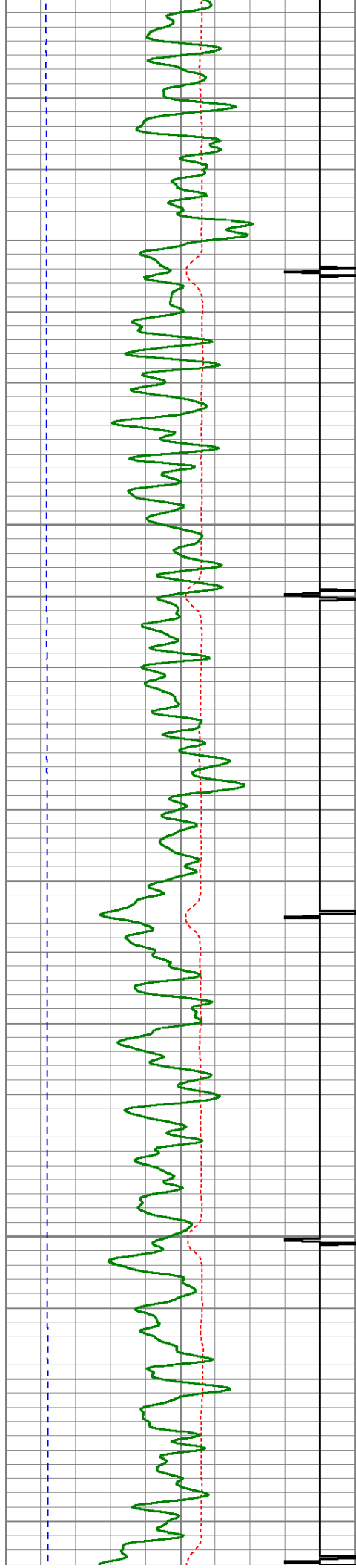
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2300

2350



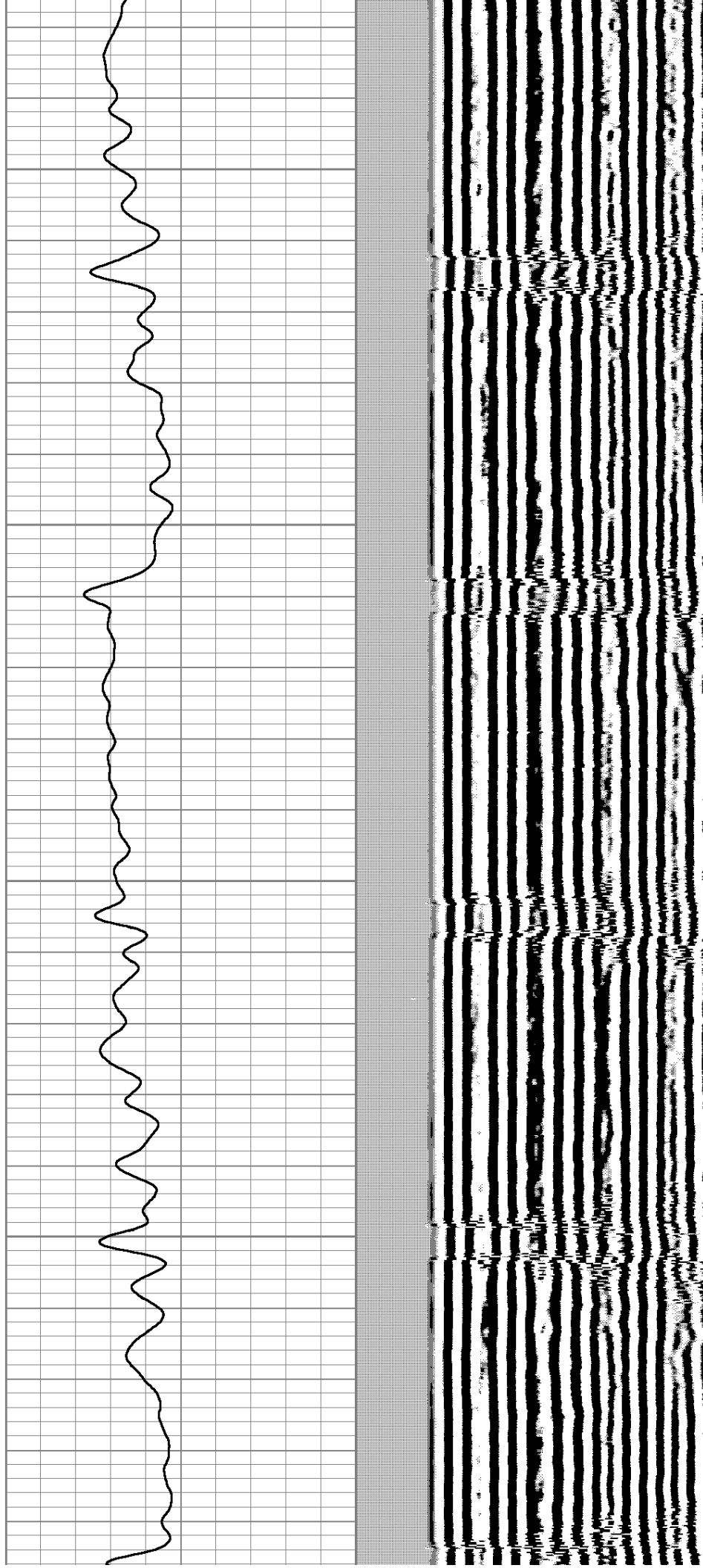


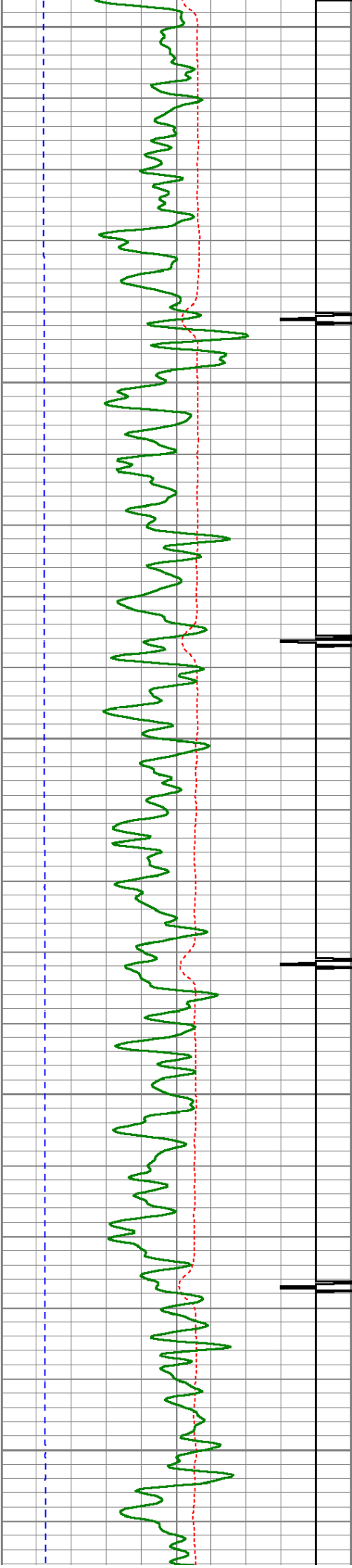
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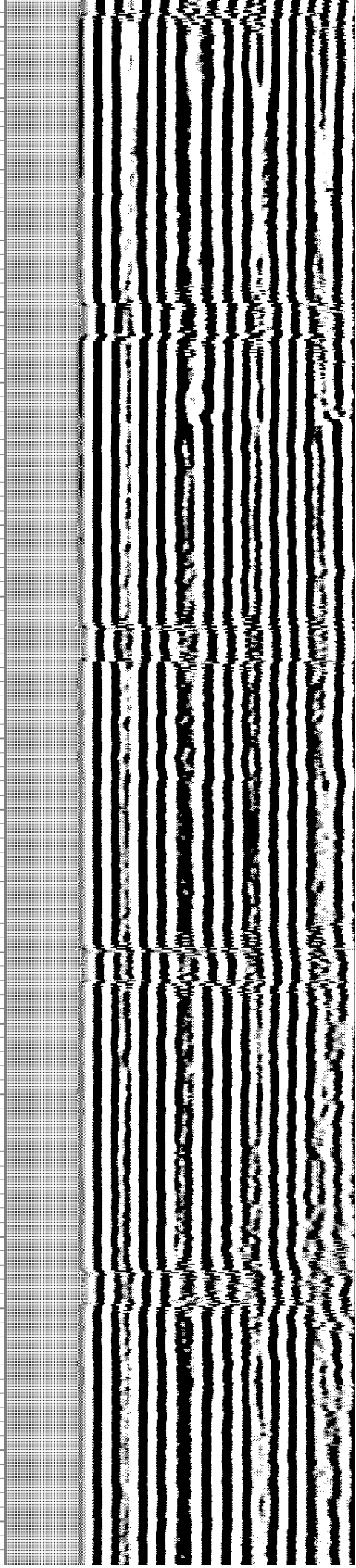
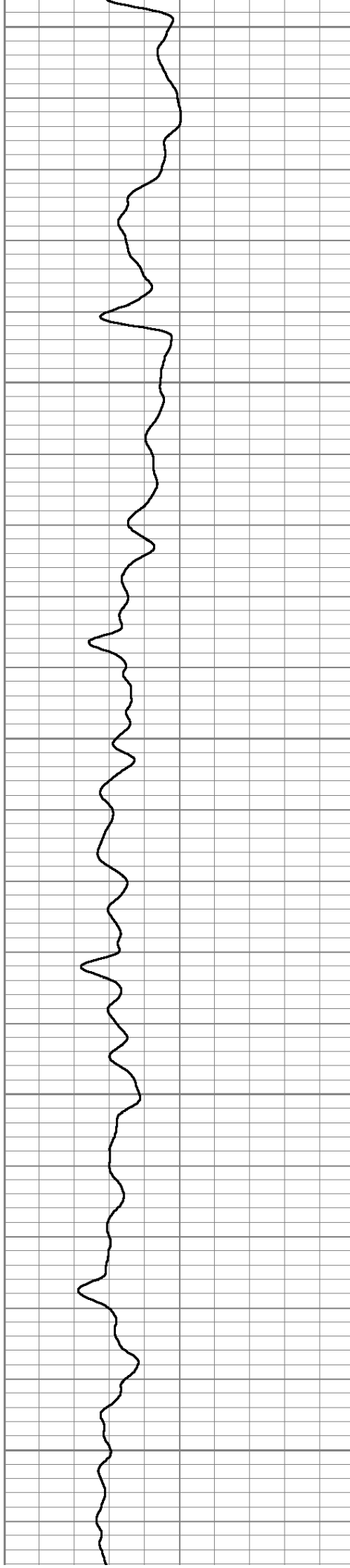
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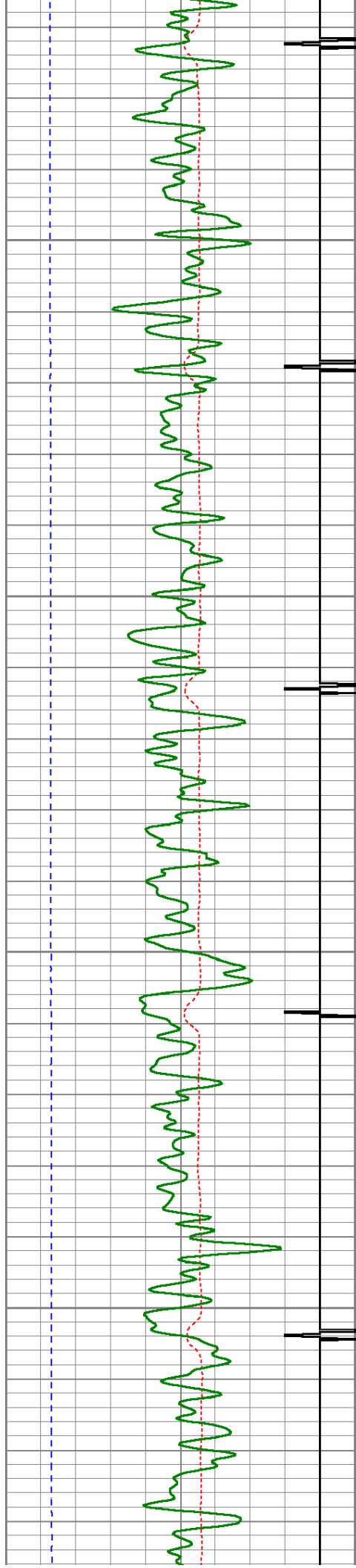
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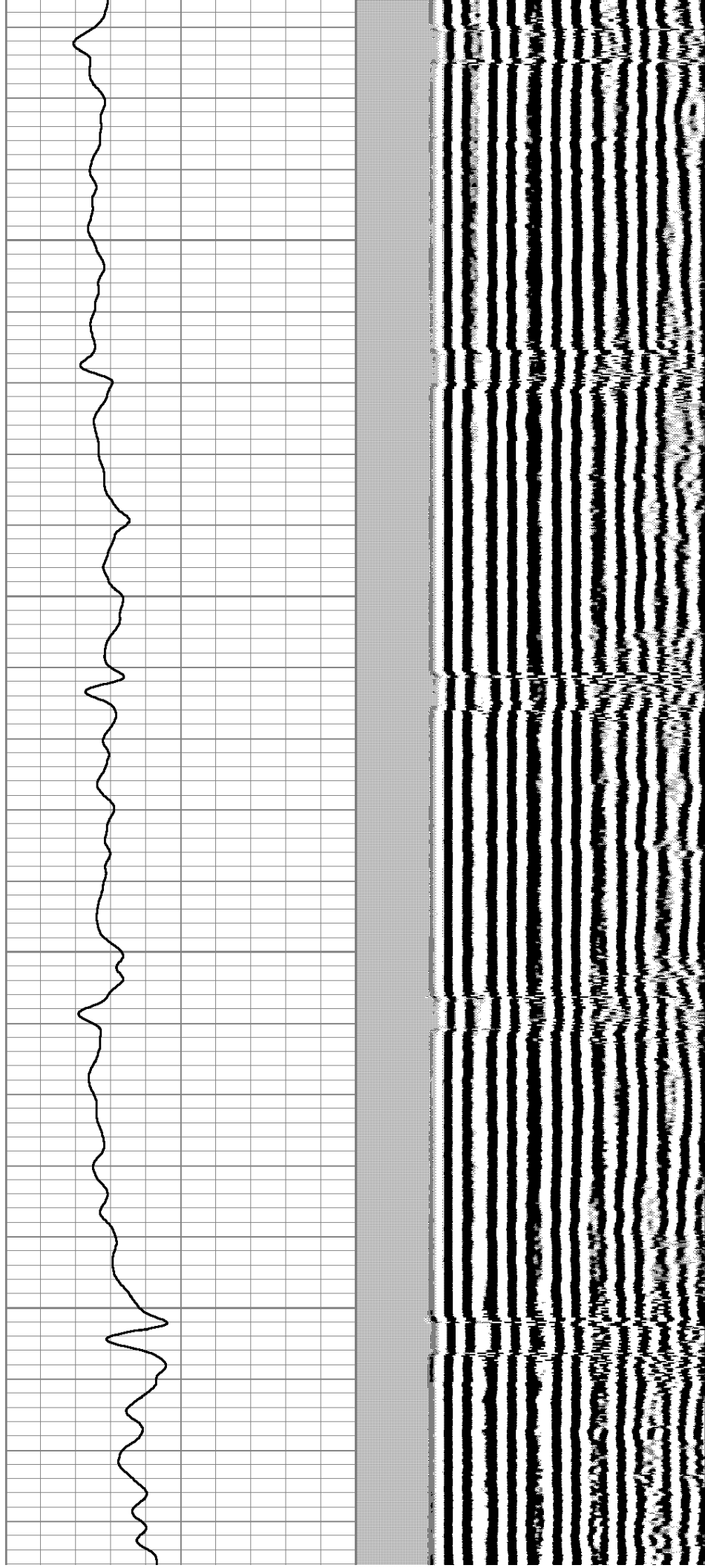


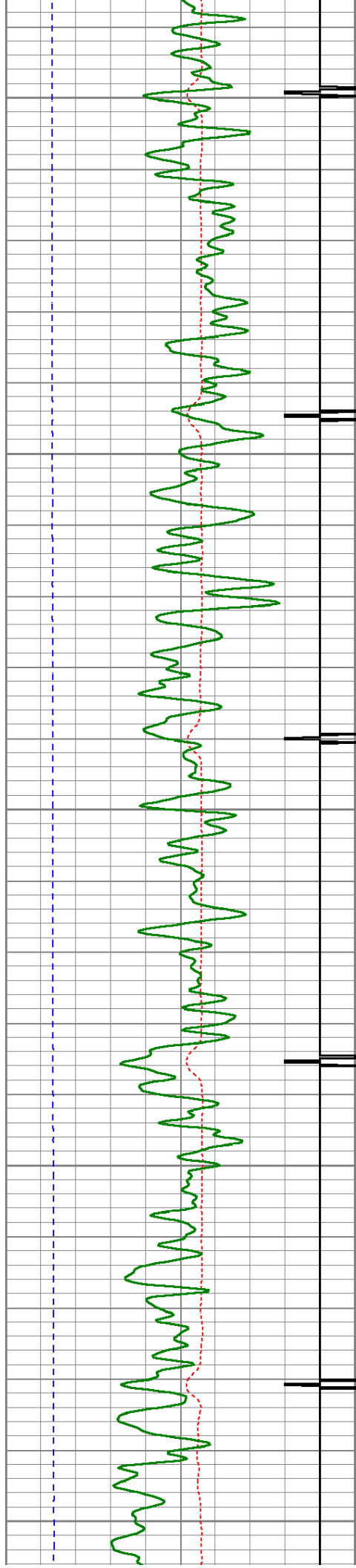
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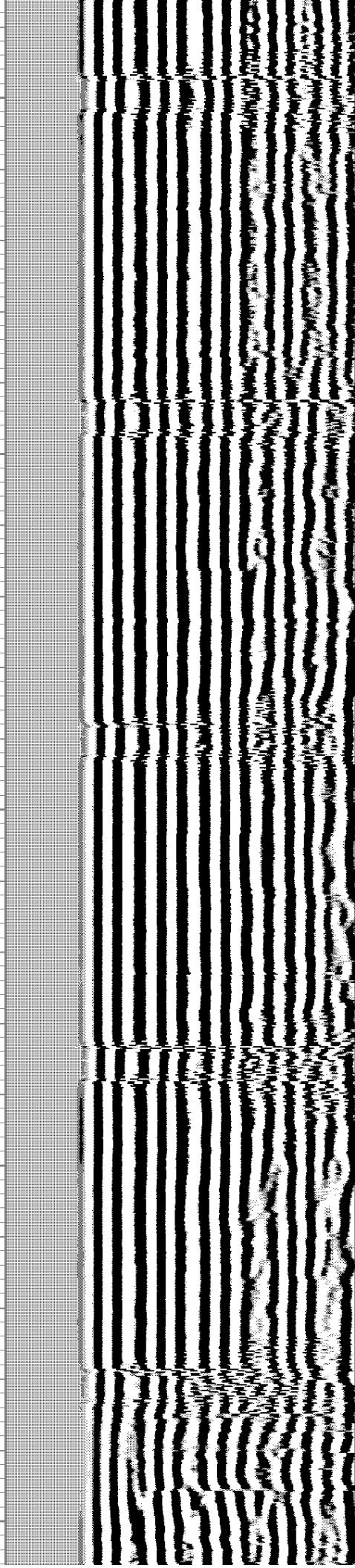
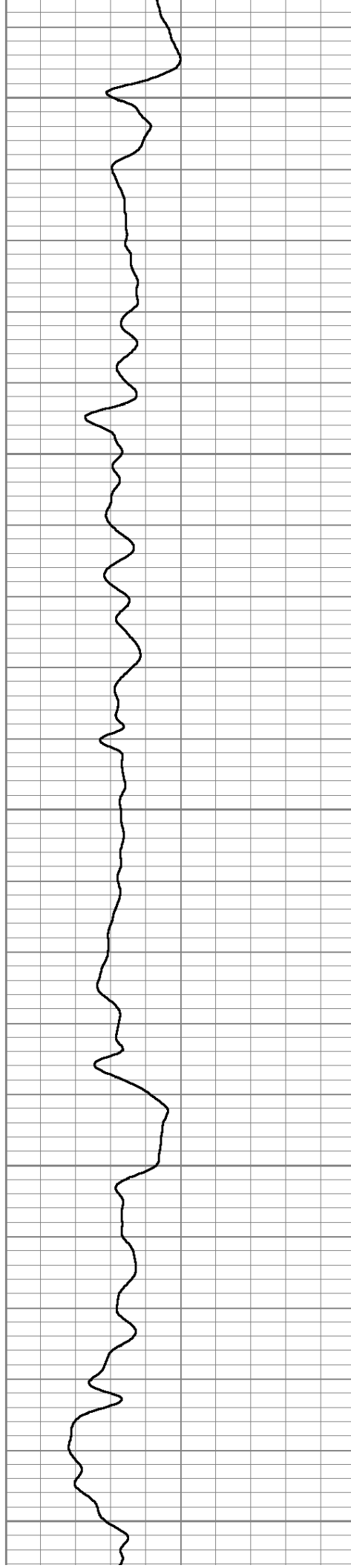
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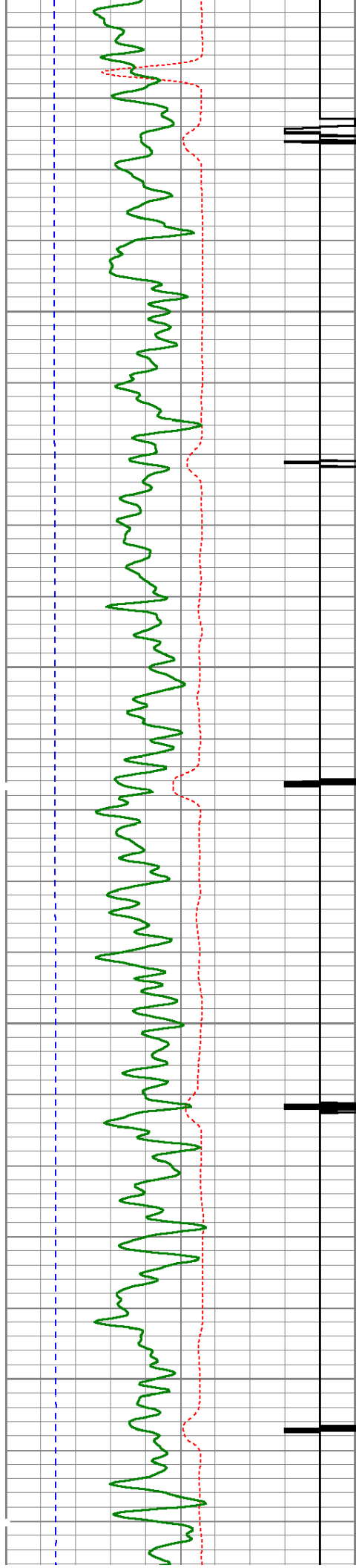
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3150

3200

3250



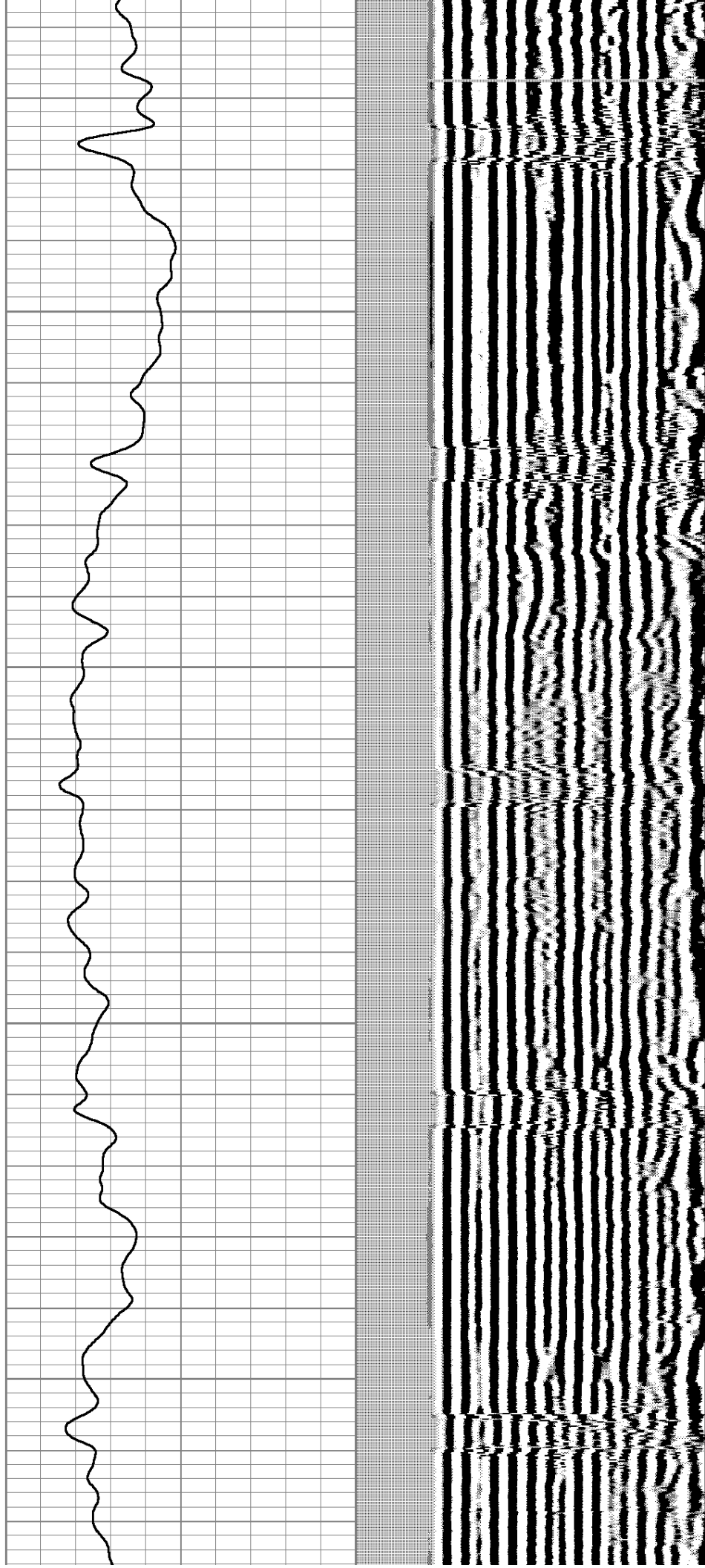


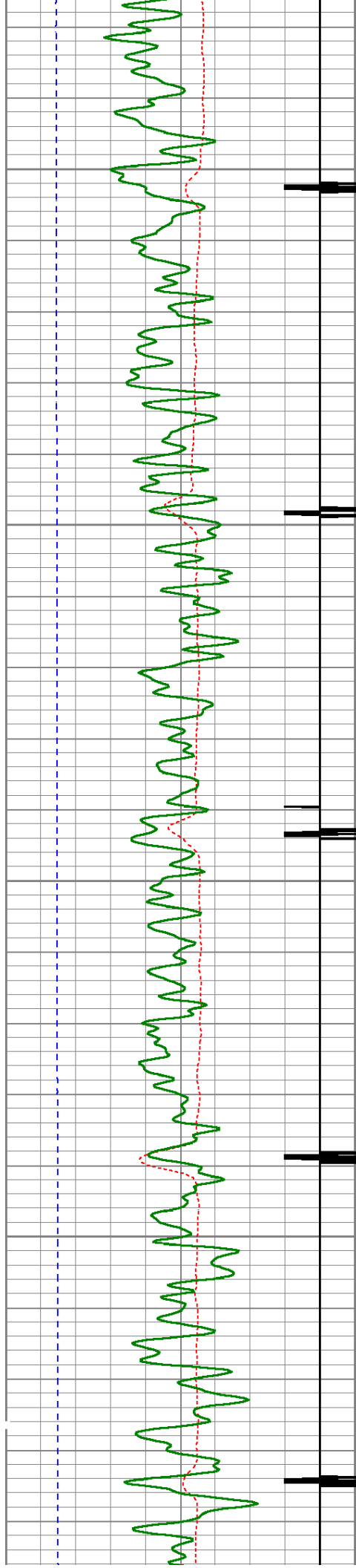
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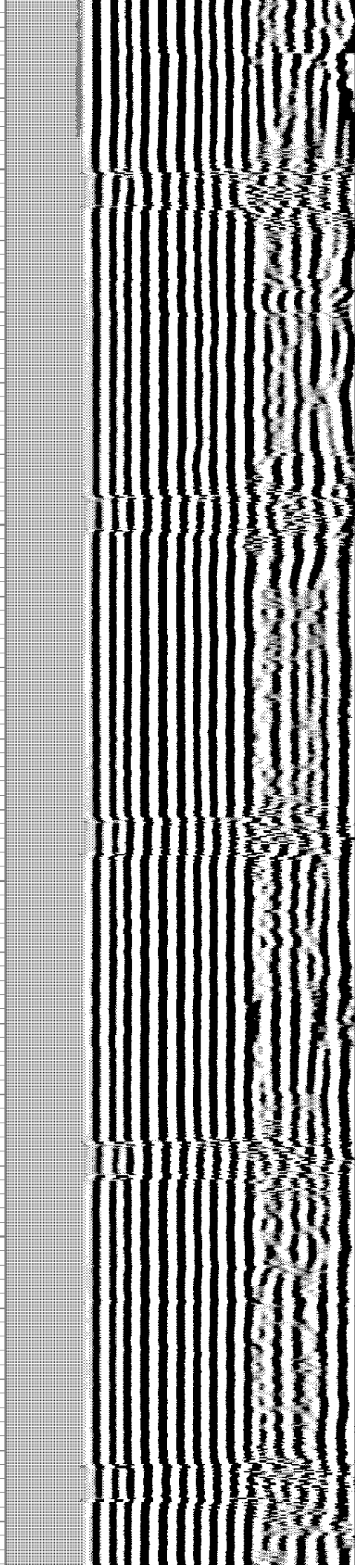
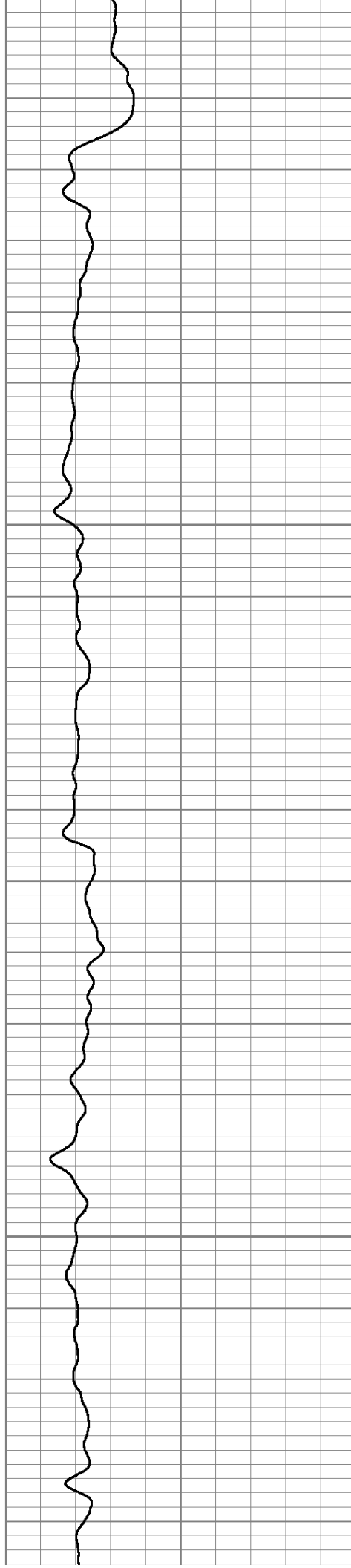


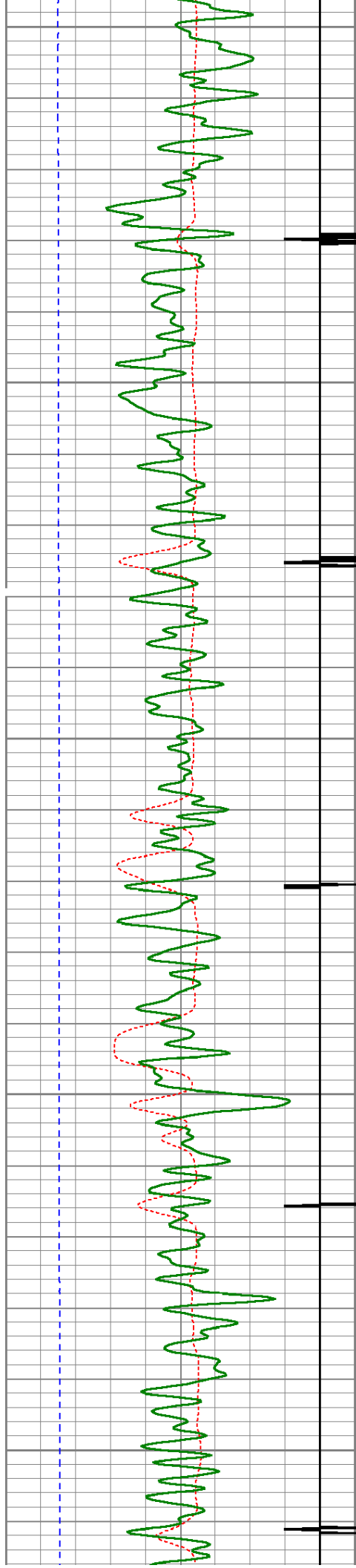
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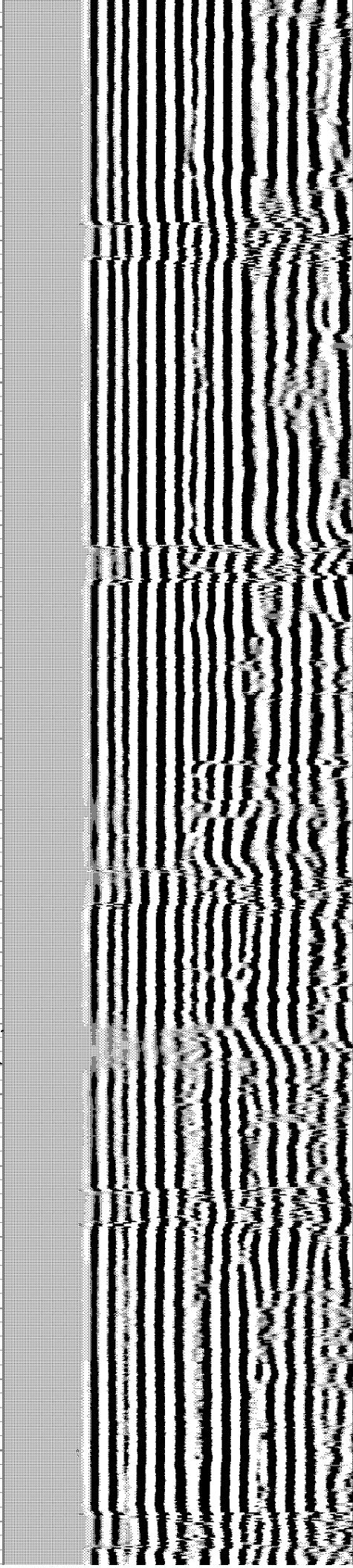
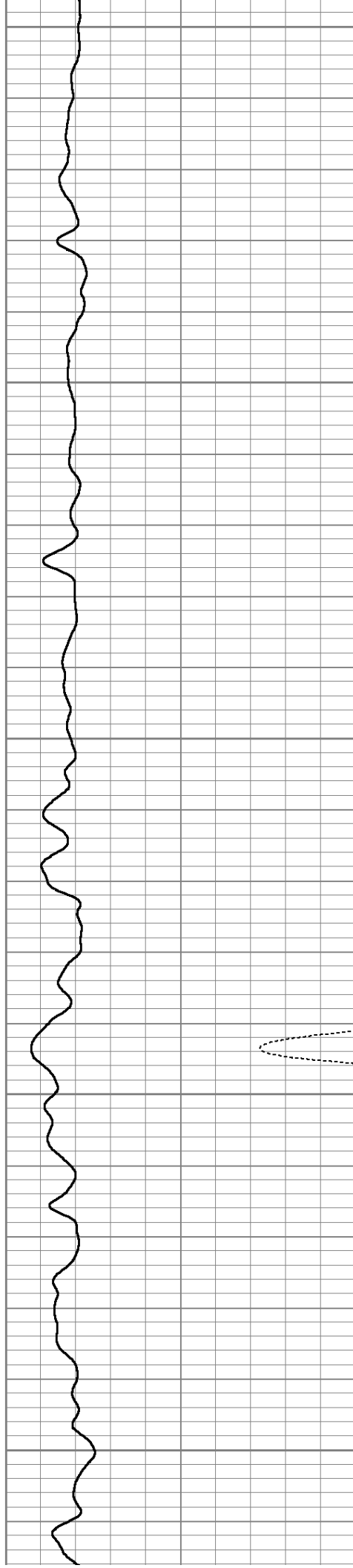
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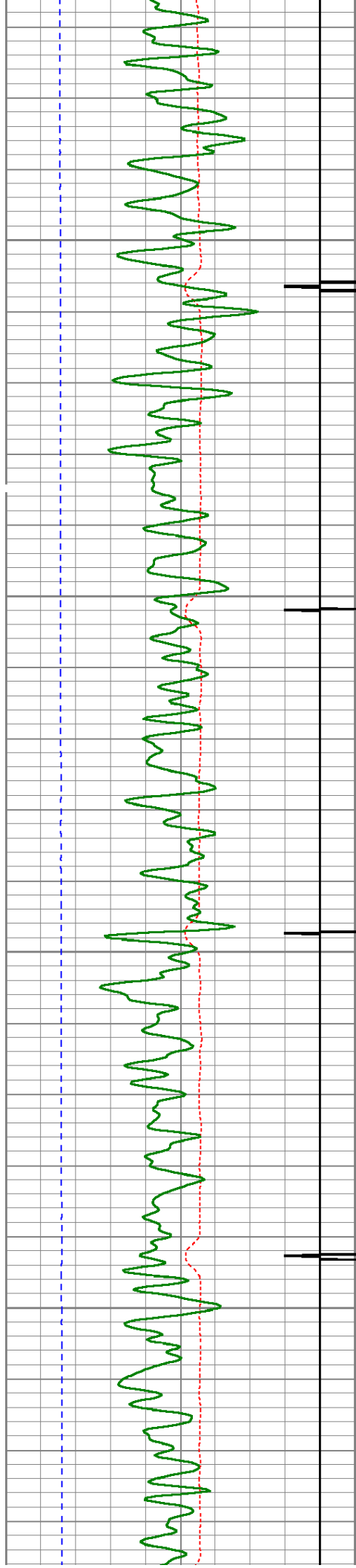
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3900



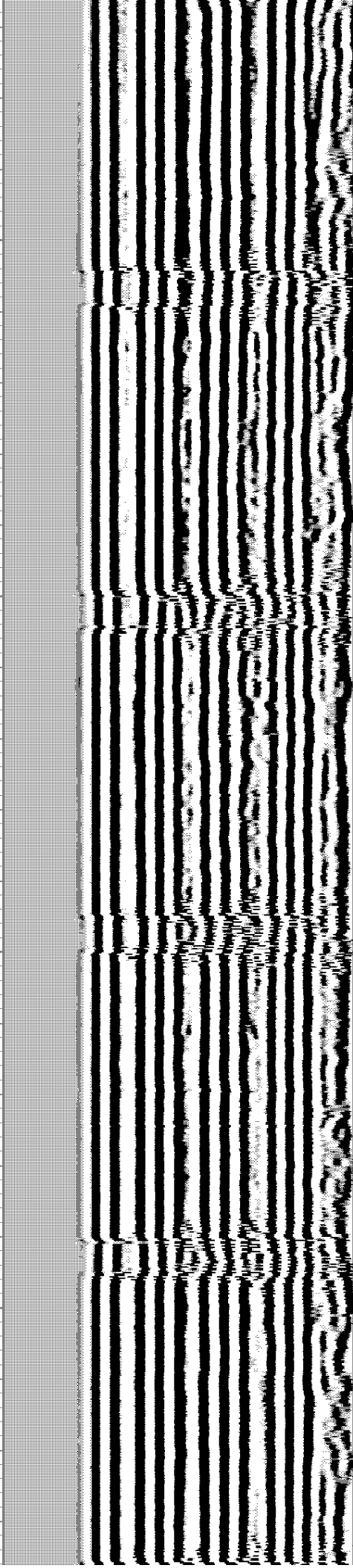
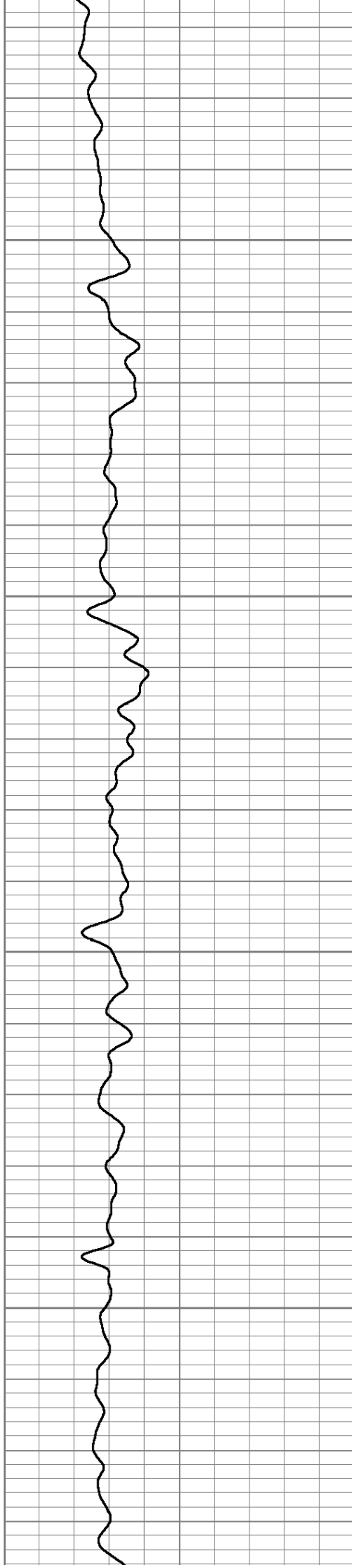


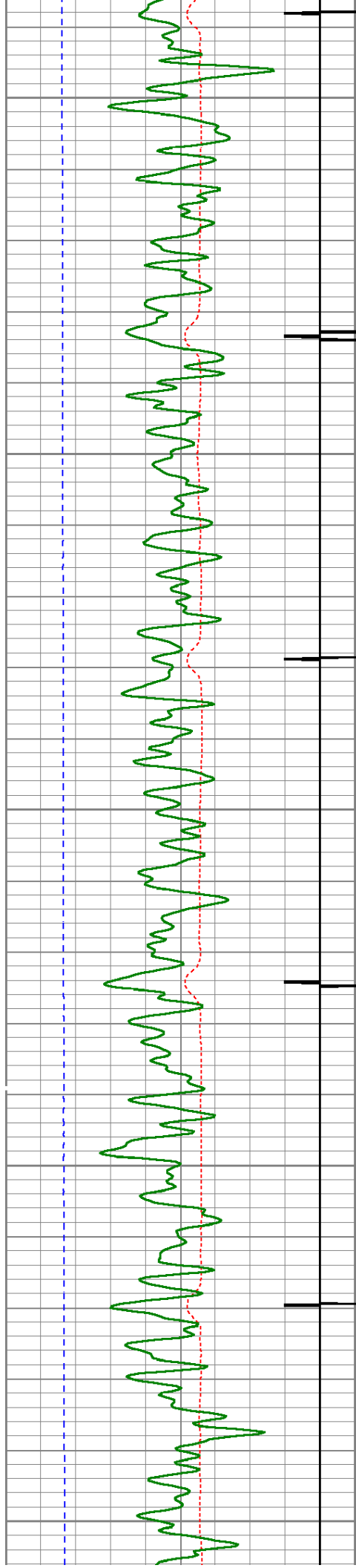
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4050

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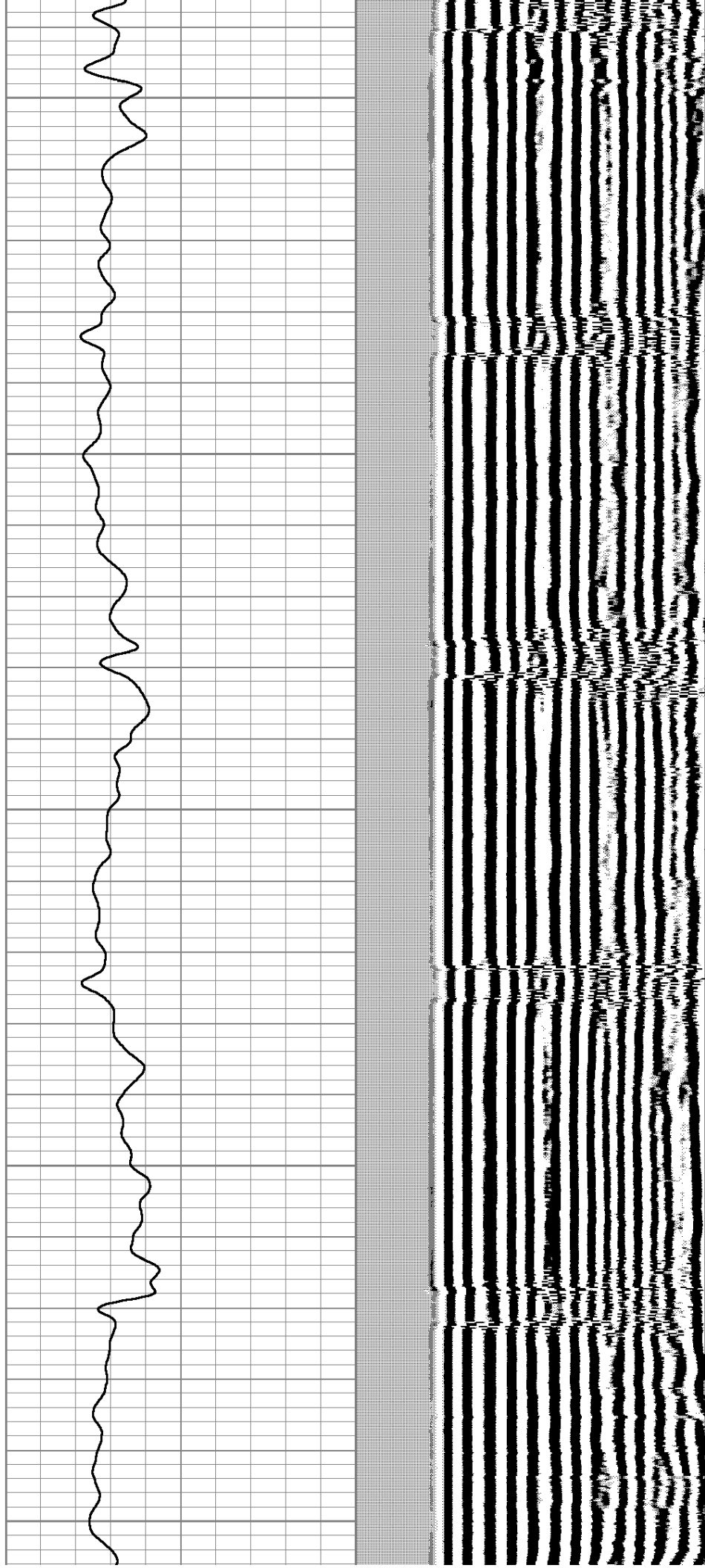
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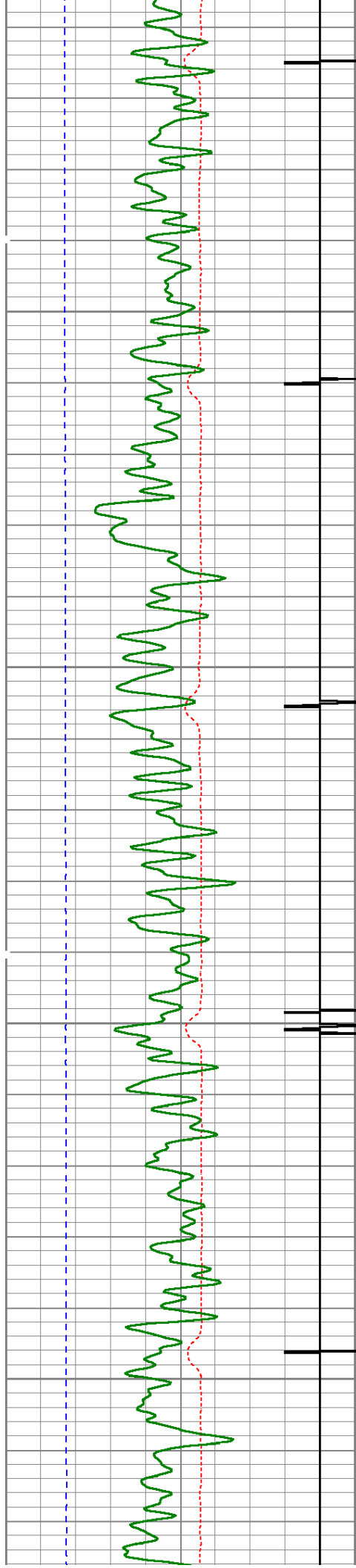
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4350



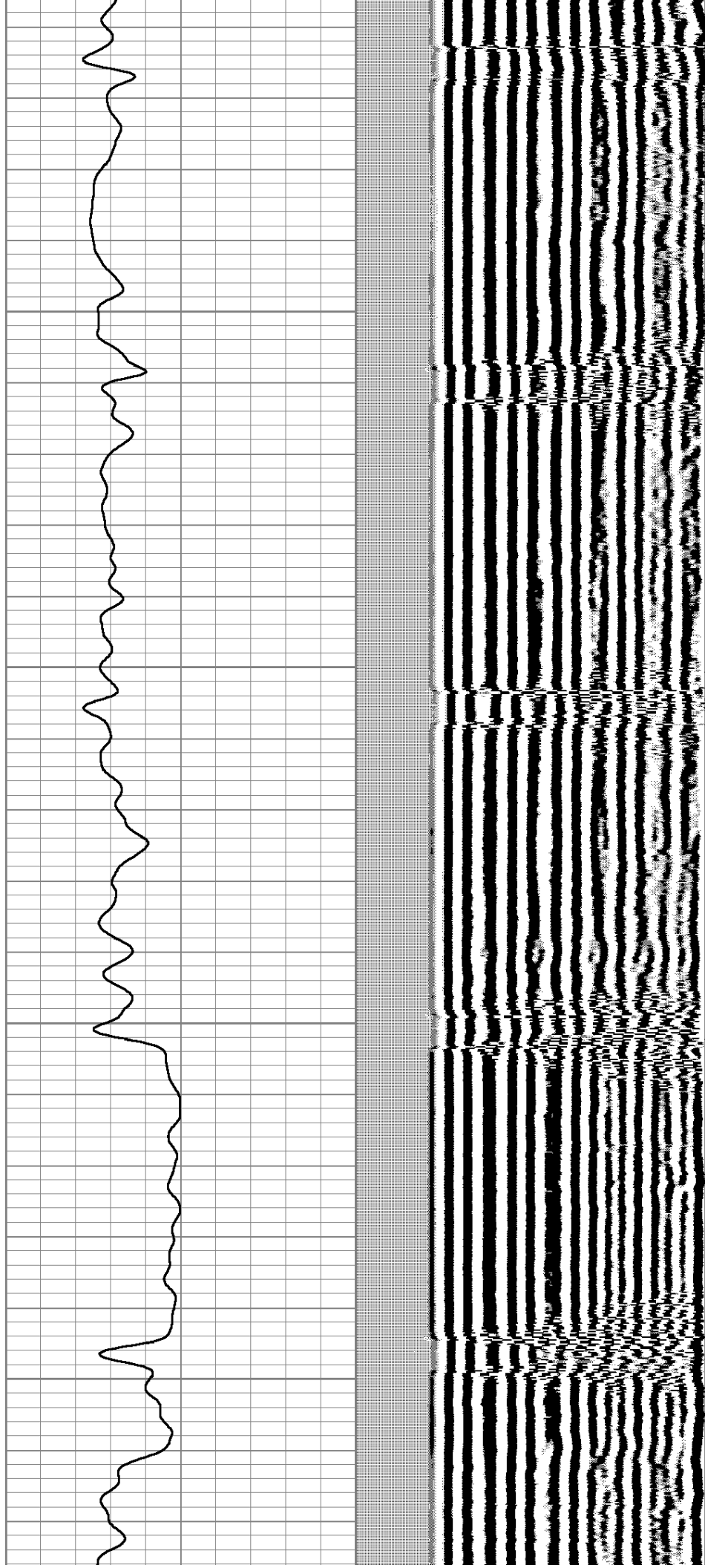


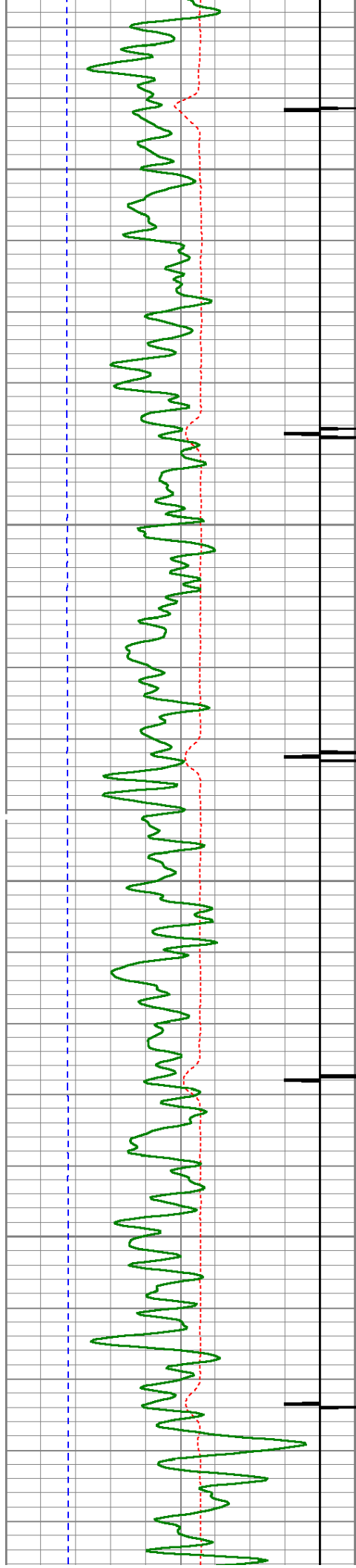
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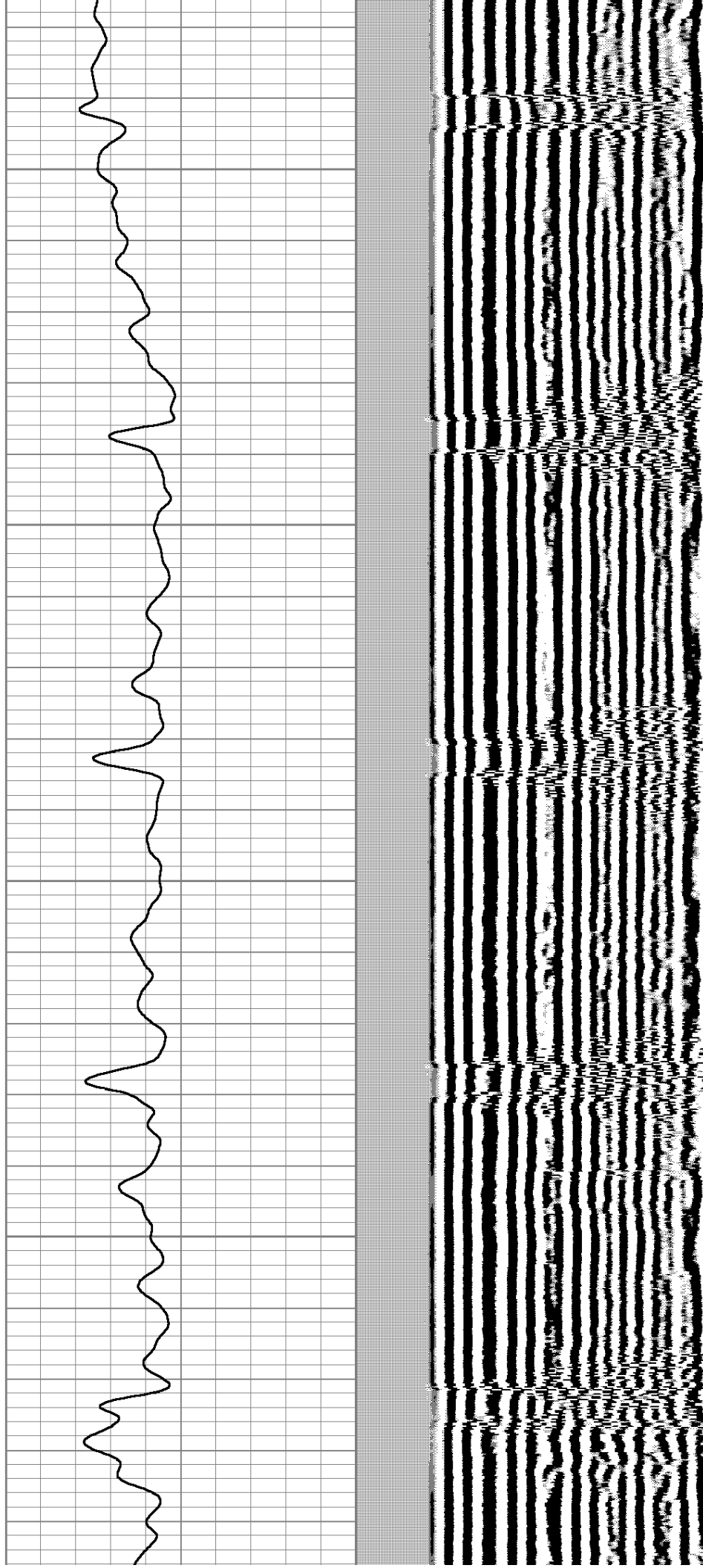


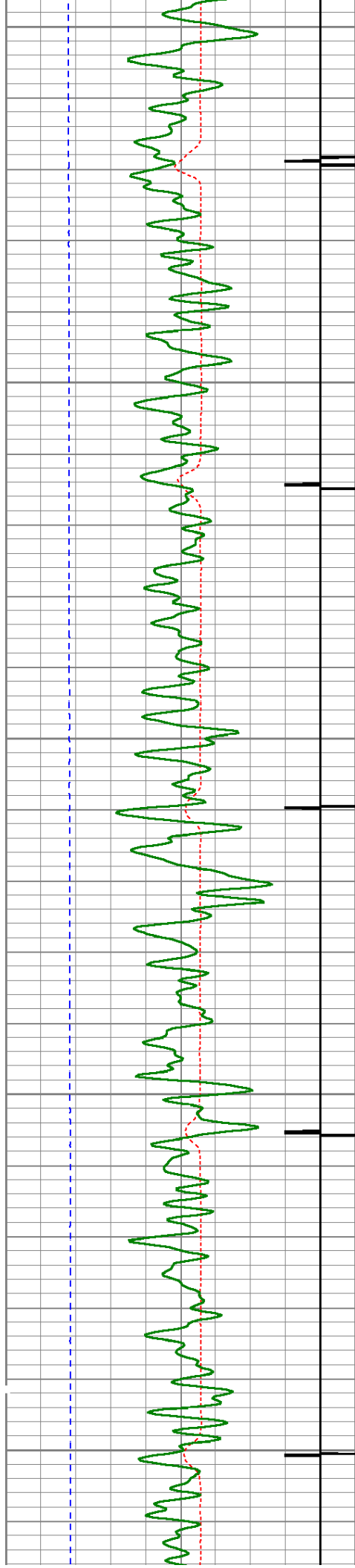
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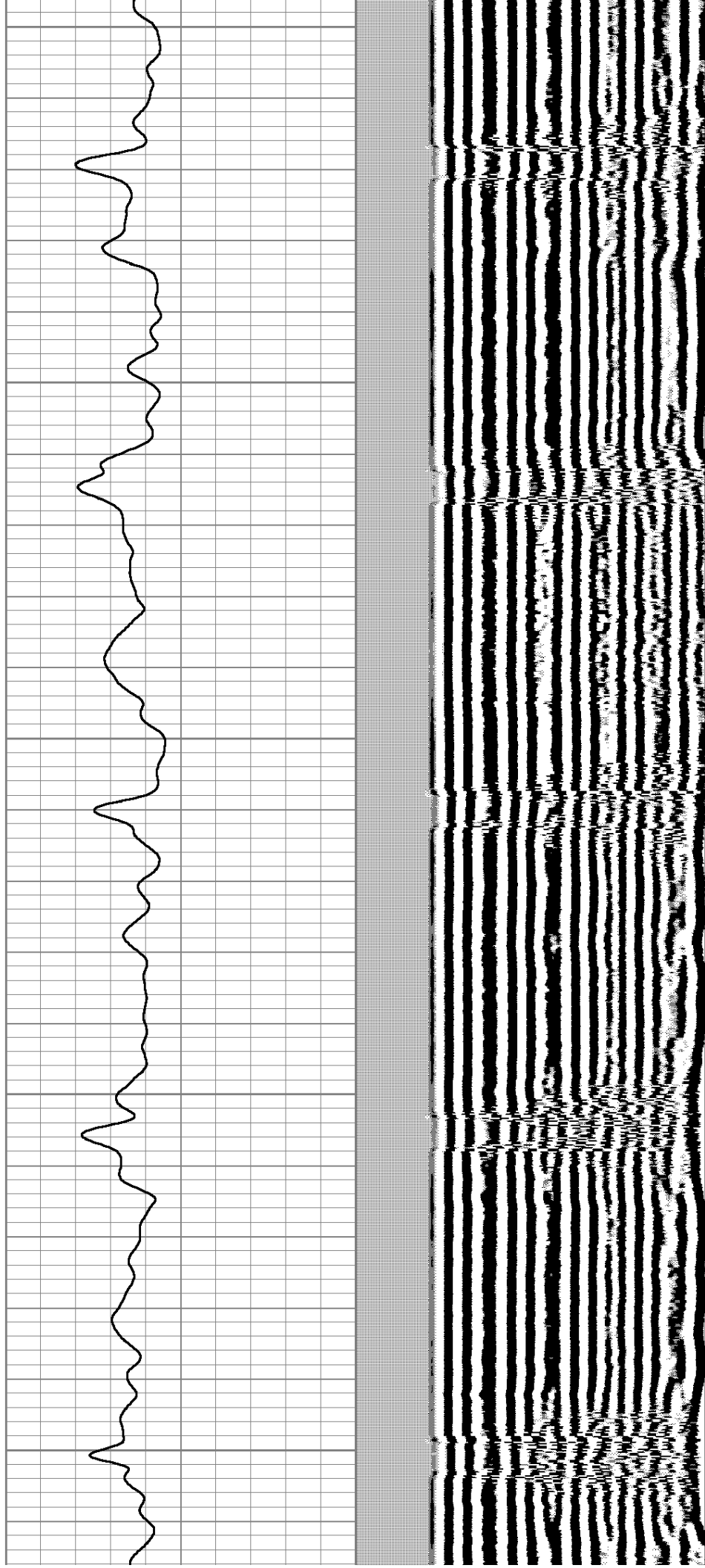
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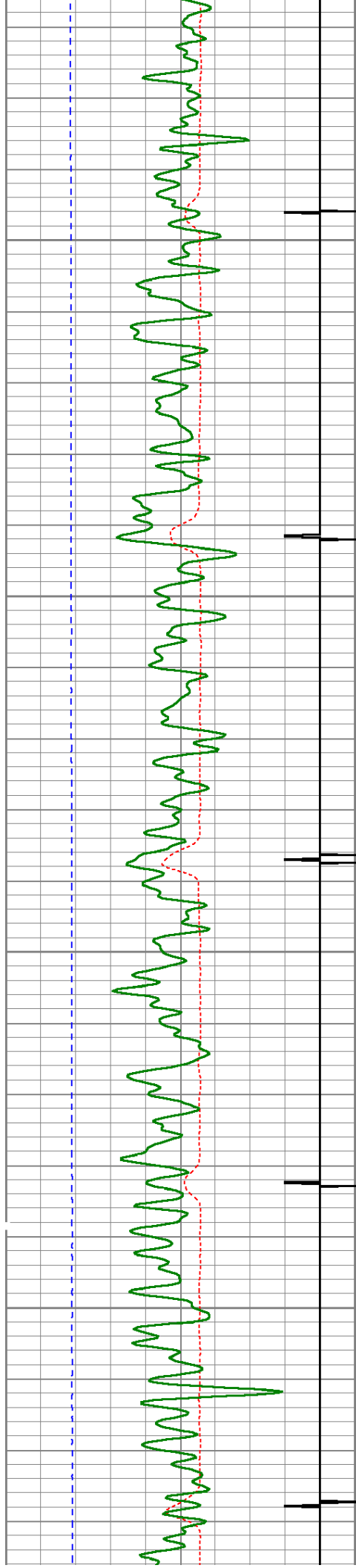
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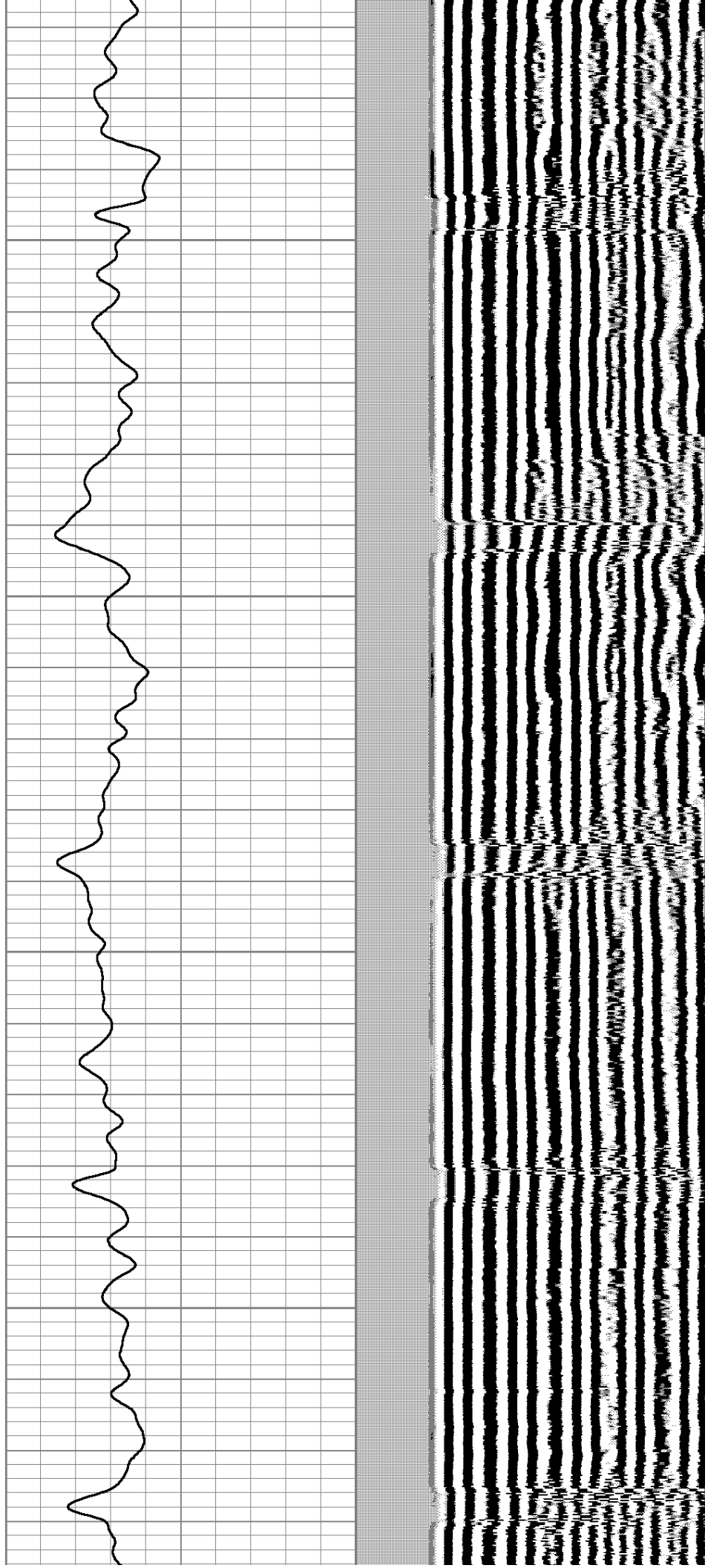


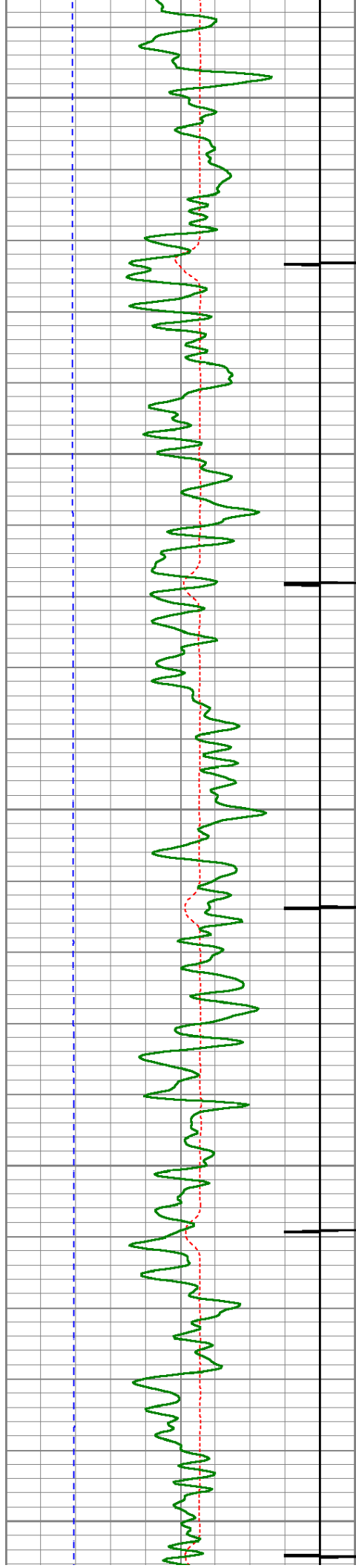
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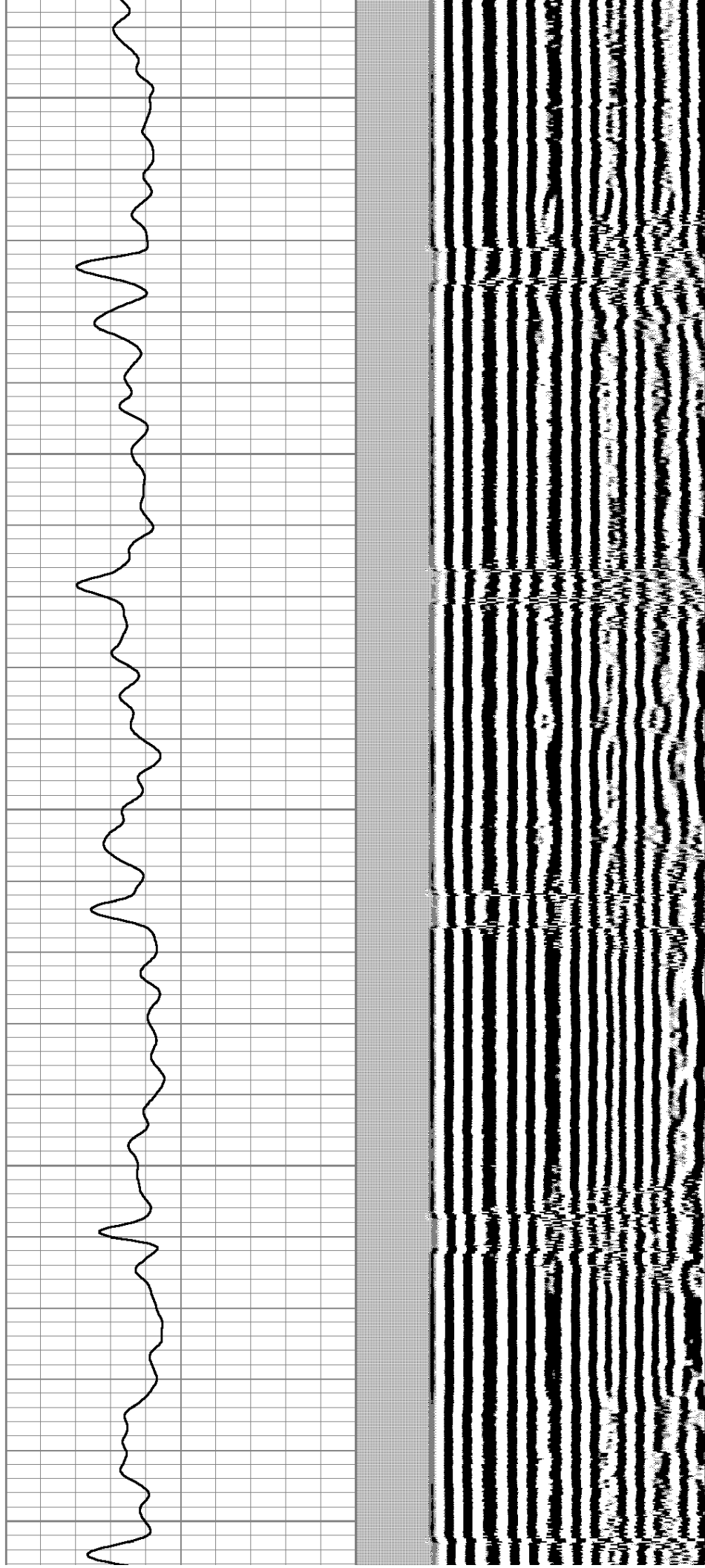
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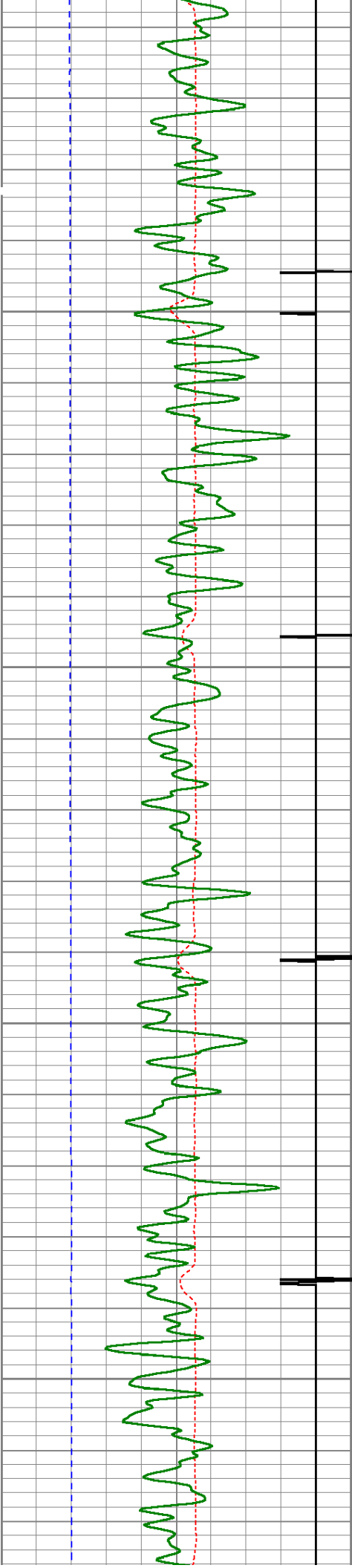
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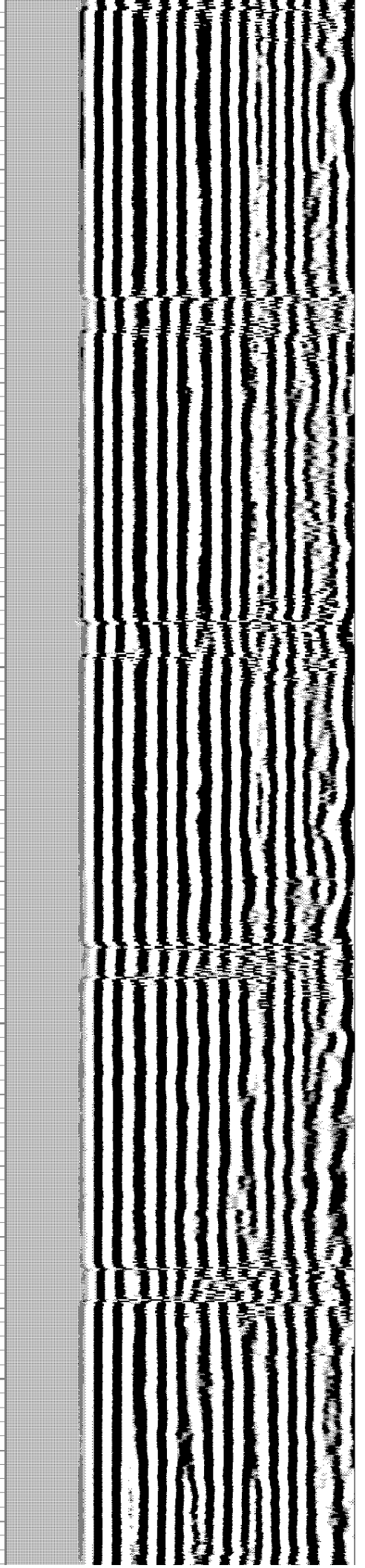
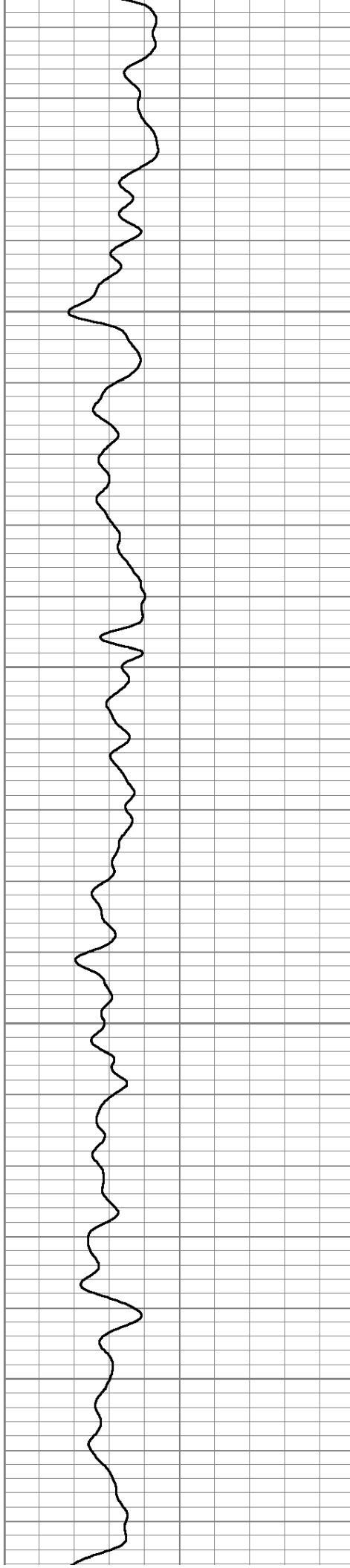


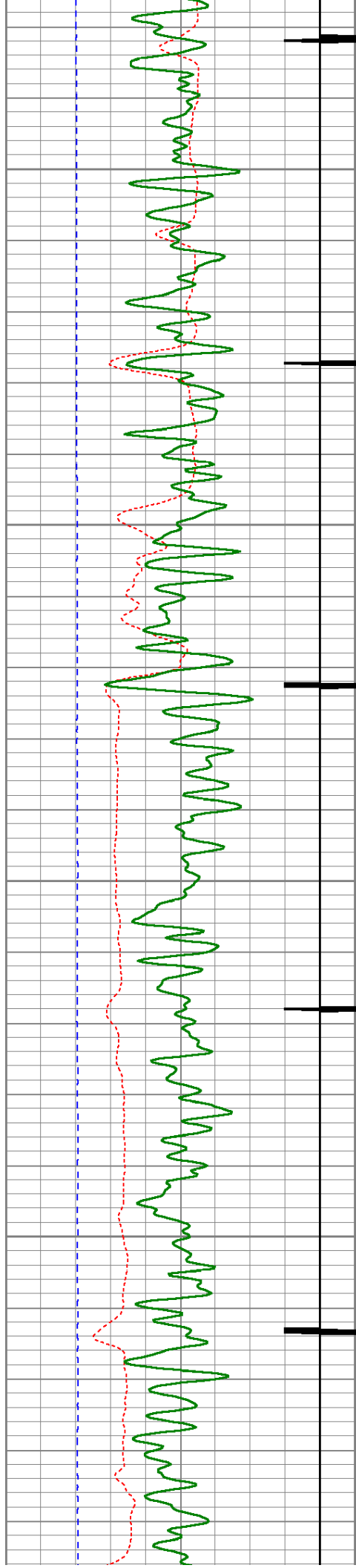
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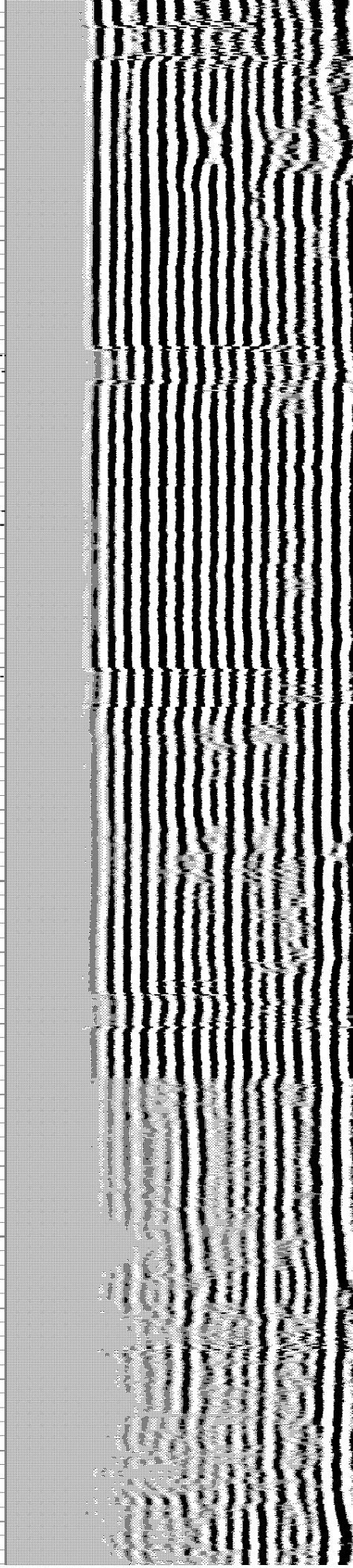
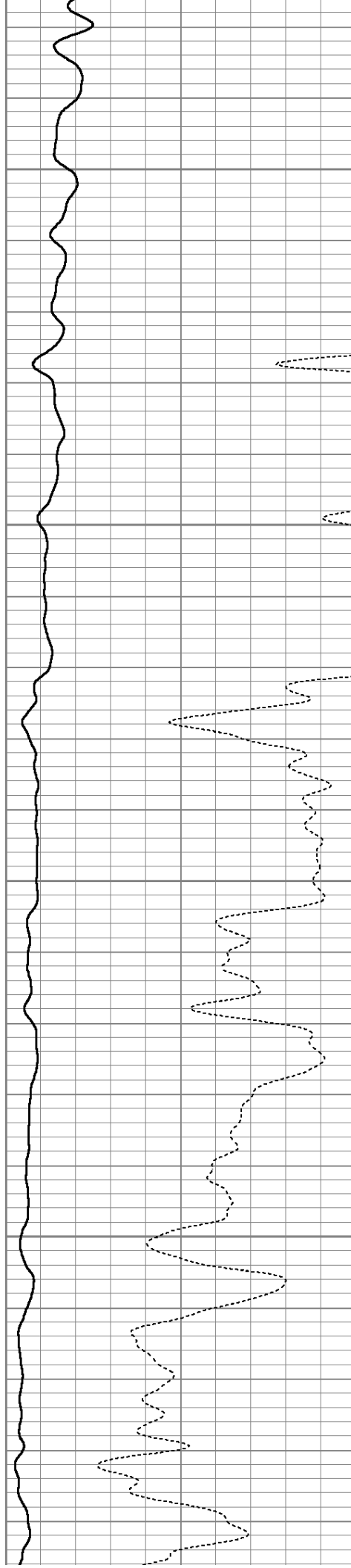


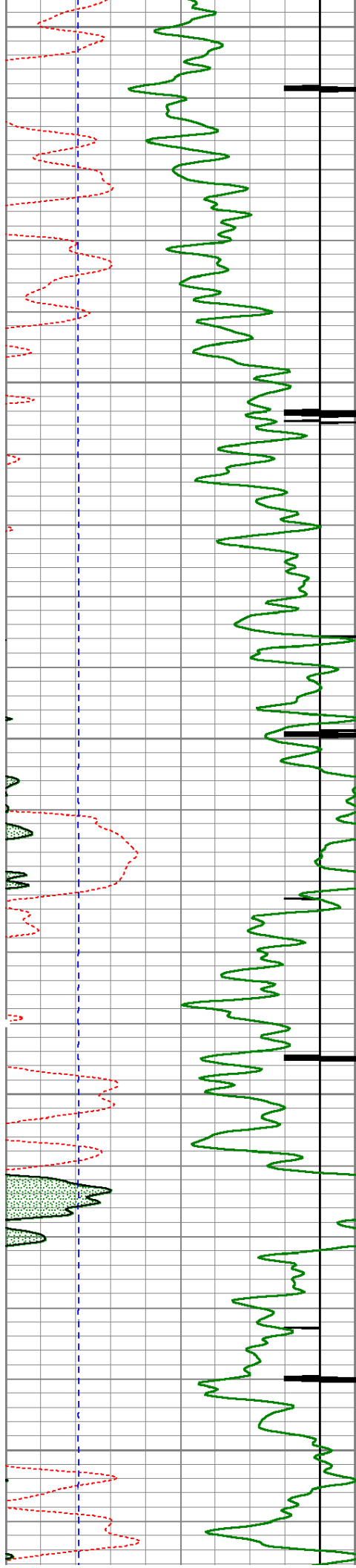
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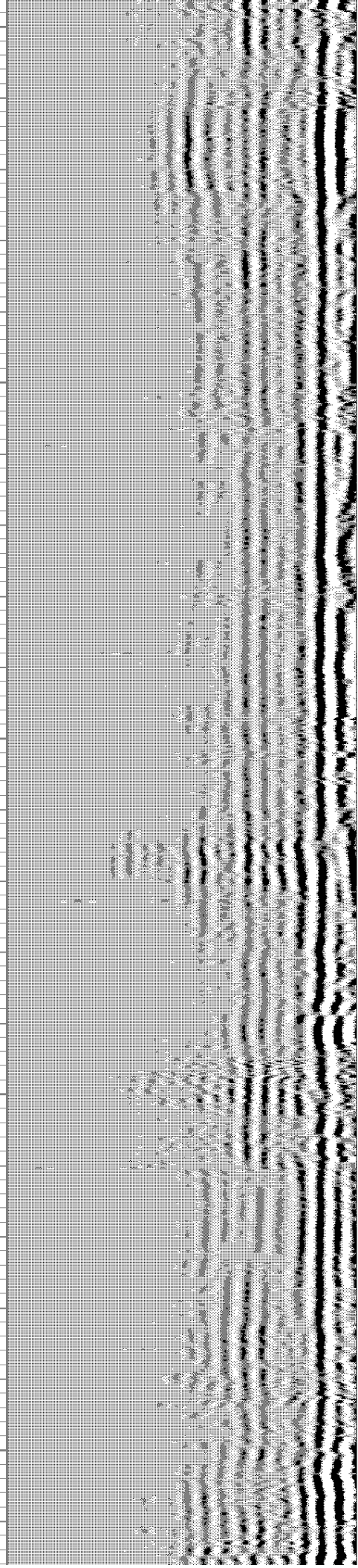
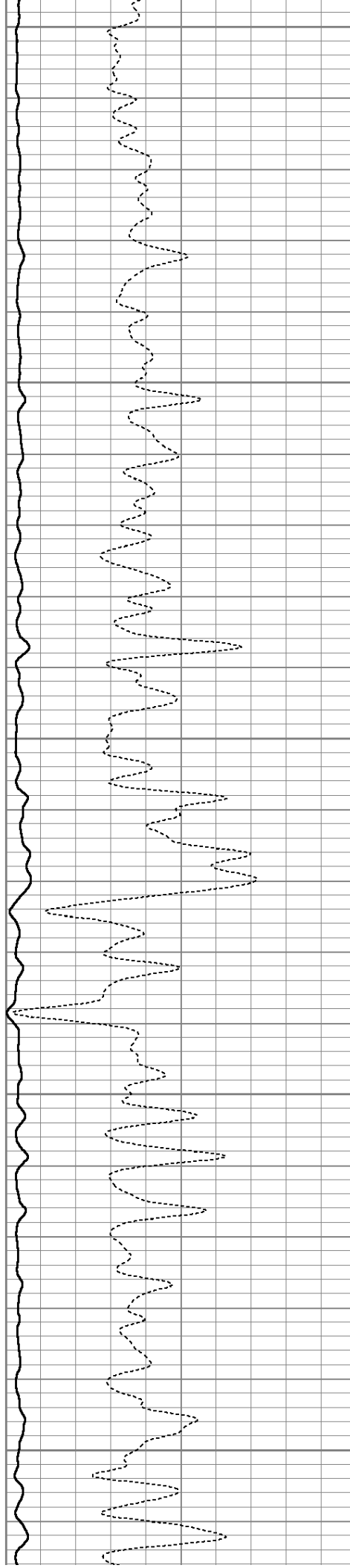
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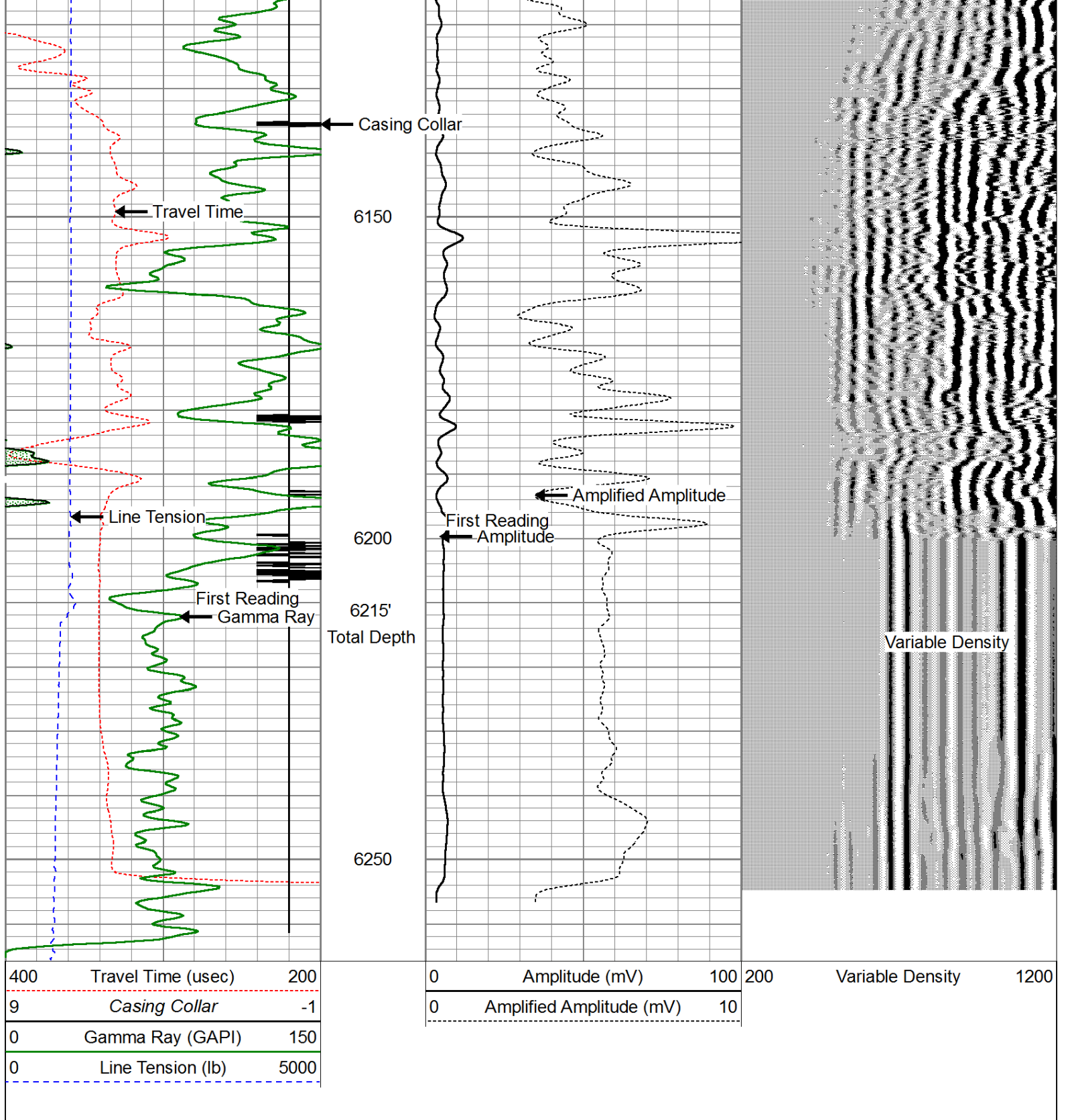
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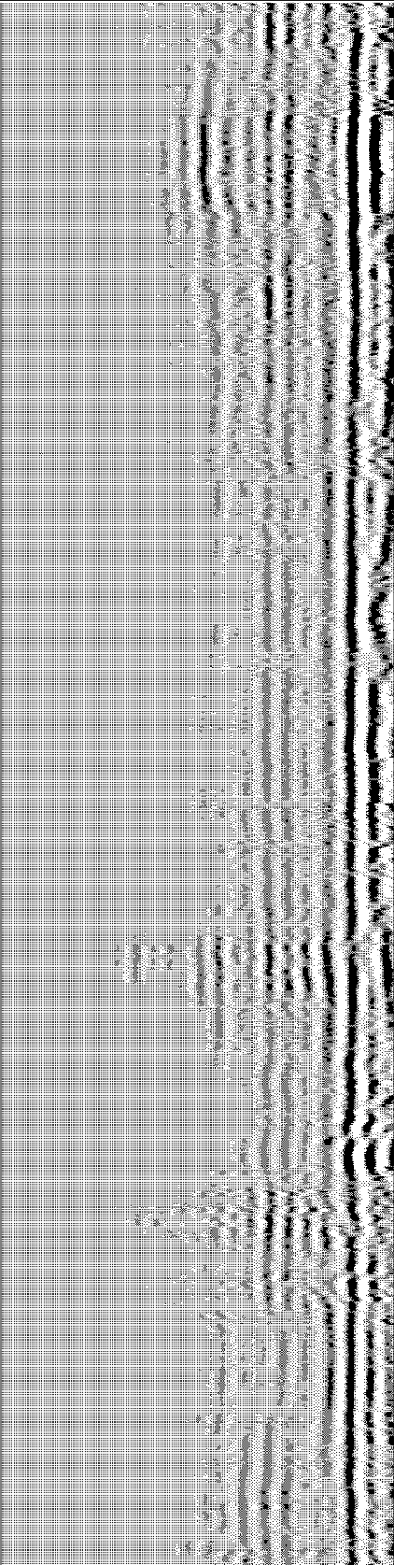
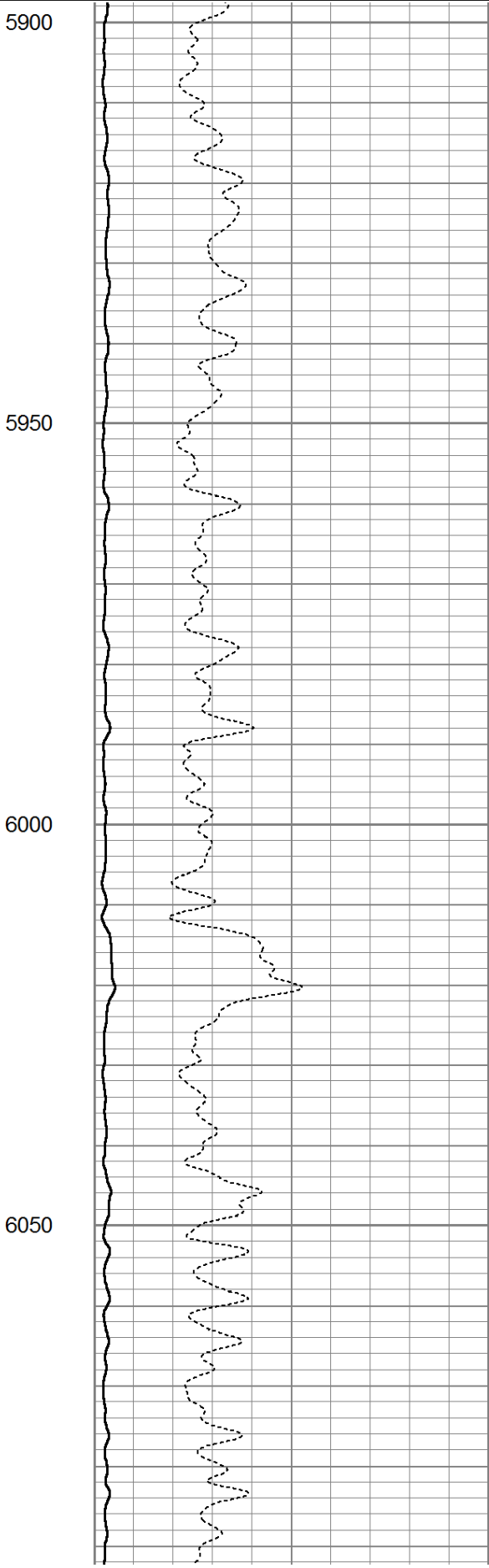
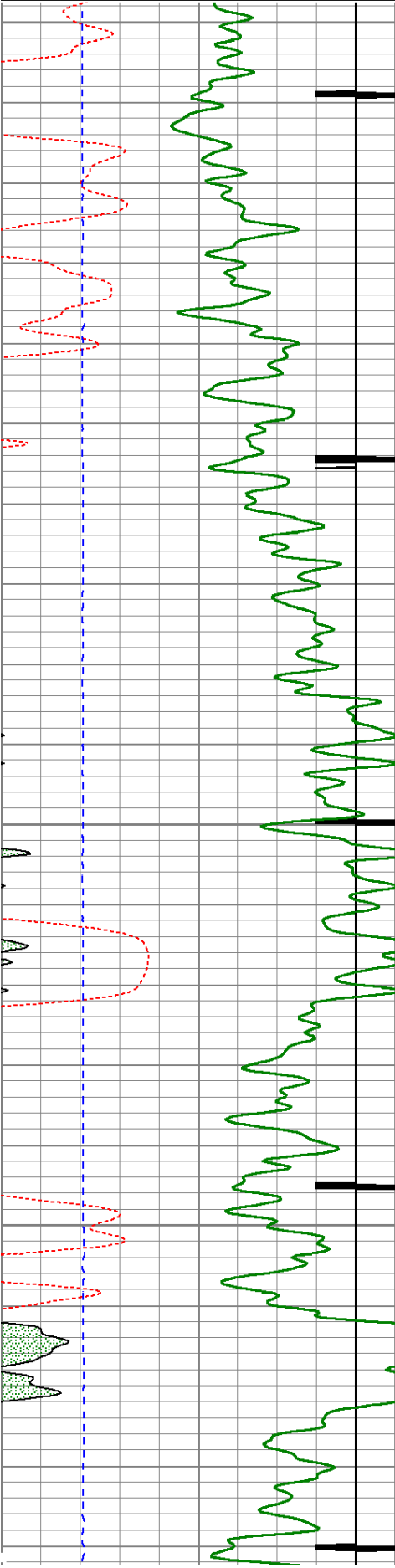
Repeat Pass (0 PSI)

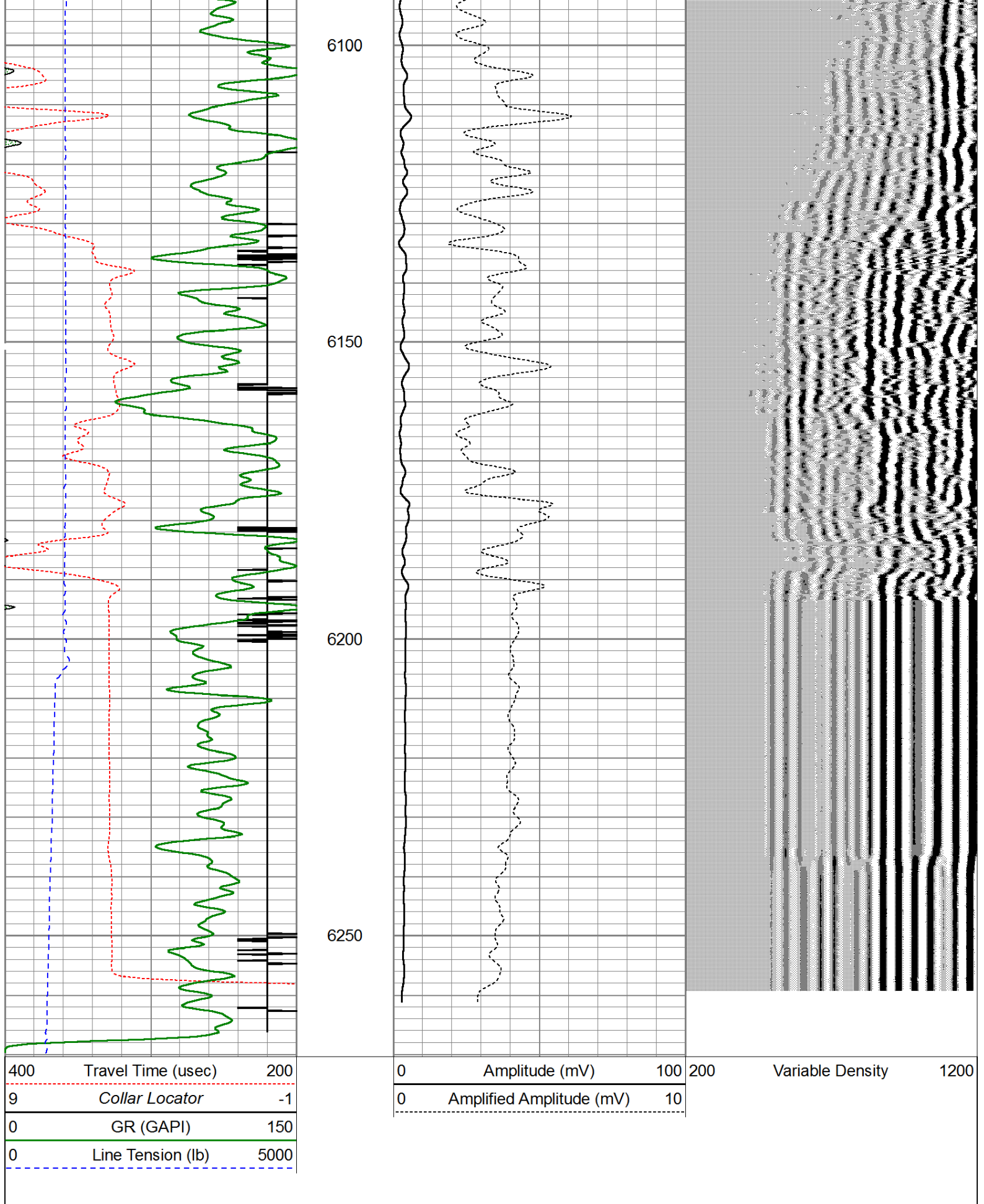
Database File: bonanza_creek_state_pronghorn_f_j_16hnb_rcbl.db
 Dataset Pathname: pass2
 Presentation Format: cblprobe
 Dataset Creation: Sat Mar 02 08:38:34 2013 by Log SCH 120126
 Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200
9	Collar Locator	-1
0	GR (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_state_pronghorn_f_j_16hnb_rcbl.db
Dataset Pathname: pass6

Gamma Ray Calibration Report

Serial Number: 101230-Dig
 Tool Model: Probe275
 Performed: Fri Jun 11 16:02:47 2004

 Calibrator Value: 138.0 GAPI

 Background Reading: 37.7 cps
 Calibrator Reading: 241.8 cps

 Sensitivity: 0.6763 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 120424
 Tool Model: Probe

 Calibration Casing Diameter: 5.500 in
 Calibration Depth: 6171.261 ft

Master Calibration, performed Sat Mar 02 08:59:46 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.005	0.460	1.200	71.921	93.644	3.504
CAL	0.716	0.716				
5'	-0.004	0.437	1.200	71.921	101.754	1.804
SUM						
S1	0.009	0.483	0.000	100.000	131.825	-1.877
S2	-0.004	0.447	0.000	100.000	139.834	0.958
S3	-0.006	0.441	0.000	100.000	139.871	1.251
S4	-0.006	0.442	0.000	100.000	139.539	1.275
S5	-0.005	0.446	0.000	100.000	138.553	1.196
S6	-0.005	0.456	0.000	100.000	135.413	1.143
S7	-0.005	0.470	0.000	100.000	131.647	0.959
S8	-0.003	0.474	0.000	100.000	131.042	0.717

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	0.716	0.716	1.000	0.000

Air Zero Calibration, performed Sat Mar 02 07:59:55 2013:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	-0.005	0.000	-0.000
5'	-0.003	0.000	-0.000
SUM			
S1	0.016	0.000	-0.007
S2	-0.002	0.000	-0.002
S3	-0.002	0.000	-0.003
S4	-0.002	0.000	-0.004
S5	-0.004	0.000	-0.001
S6	-0.003	0.000	-0.002
S7	-0.003	0.000	-0.002
S8	-0.004	0.000	0.000

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
				1.00	1.44	10.00
				2.88	2.75	20.00
WVF3FT	12.02		RBT-Probe (120424) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFCAL	12.02					
WVFS1	12.02					
WVFS2	12.02					
WVFS3	12.02					
WVFS4	12.02					
WVFS5	12.02					
WVFS6	12.02					
WVFS7	12.02					
WVFS8	12.02					
WVF5FT	11.02					
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL	4.00					
GR	2.54		GR-Probe275 (101230-Dig) Probe 2 3/4" Digital Gamma Ray/CCL	4.96	2.75	57.00

Total Weight:	197.00 lb
O.D.	2.75 in