



**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 # :	
SEC 16 TWP 5 N RGE 61 W		370' FNL & 1259' FWL	
Permanent Datum		Ground Level	
Log Measured From		Kelly Bushing 15' APD	
Drilling Measured From		Kelly Bushing	
Elevation		4638'	
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 Bottom	
Surface String		9 5/8" 36# Surface 410'	
Prot. String		7" 26# Surface 6537'	
Production String		4.5" 11 6# Surface 6437' 10883'	
Liner			

<<< Fold Here >>>

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



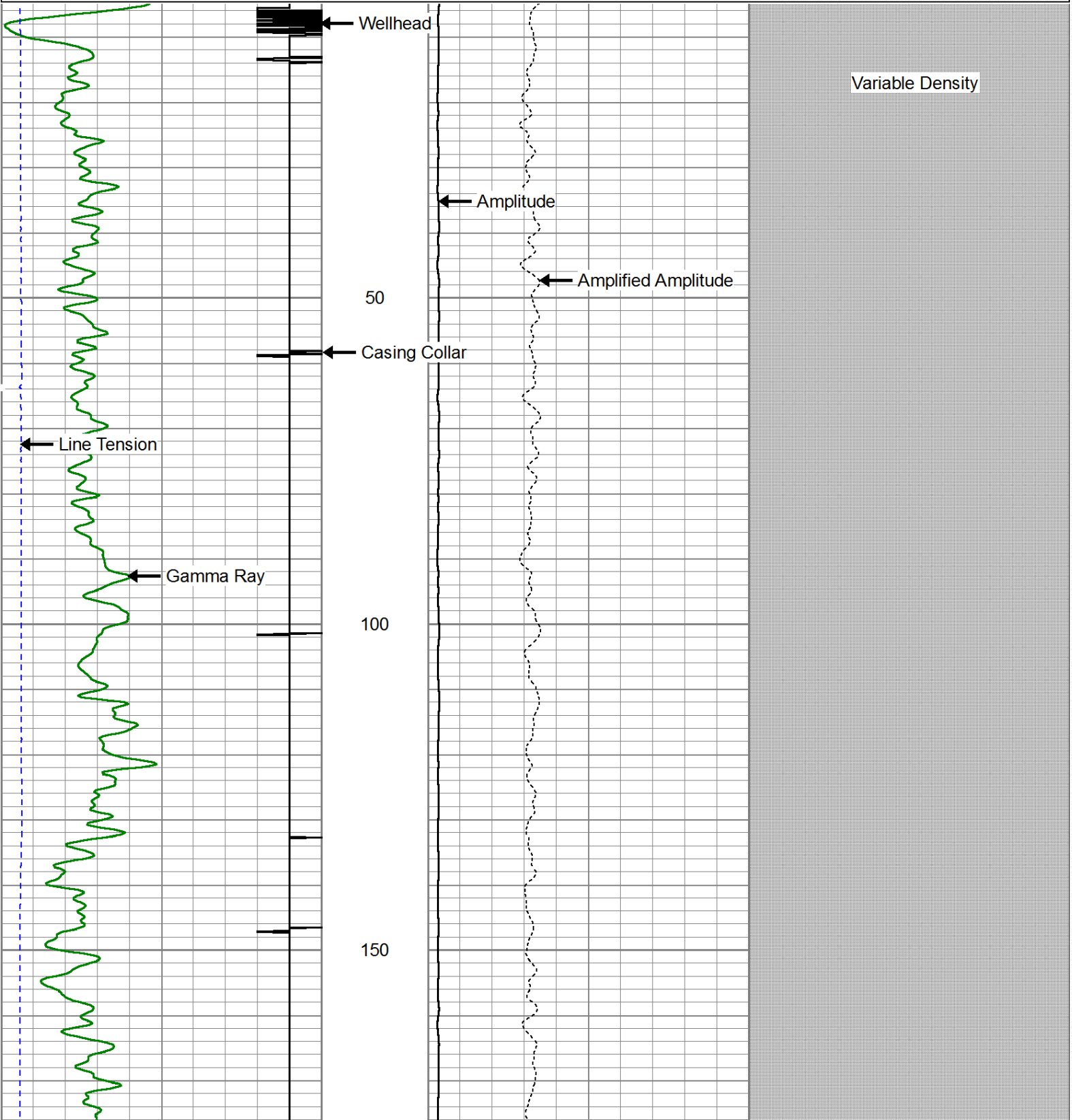
Main Pass (0 PSI)

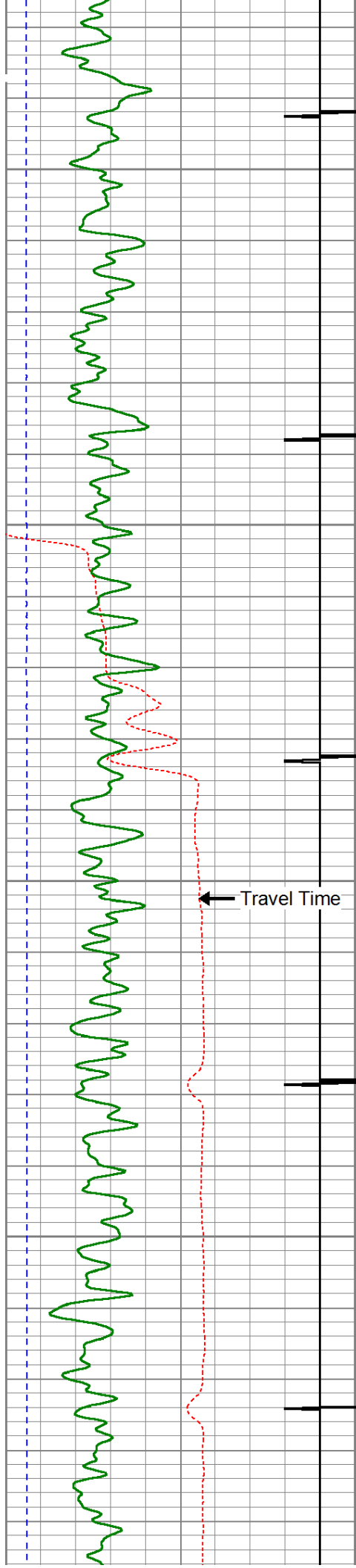
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Dataset Pathname: pass6
Presentation Format: cblprobe
Dataset Creation: Sat Mar 02 10:14:15 2013 by Calc SCH 120126
Charted by: Depth in Feet scaled 1:240

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





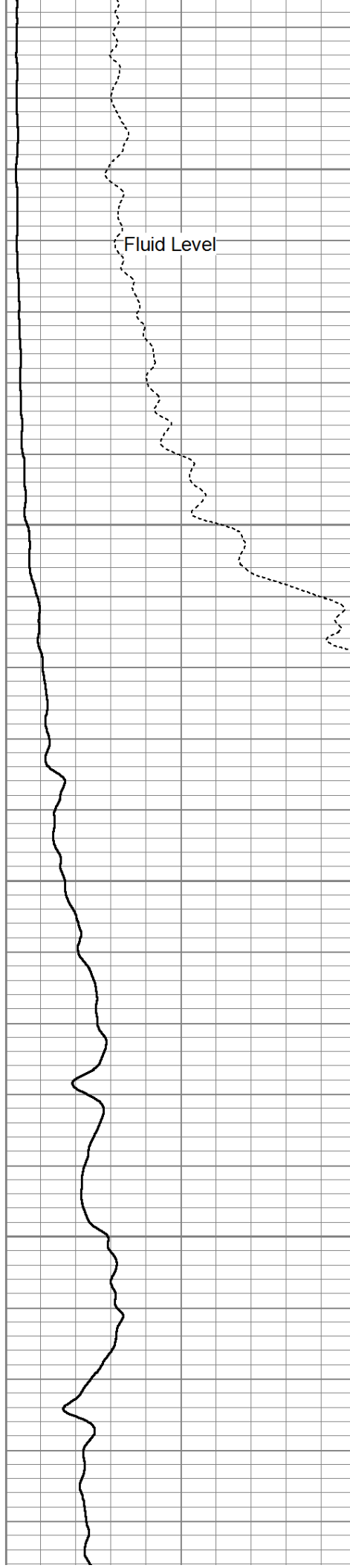
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250

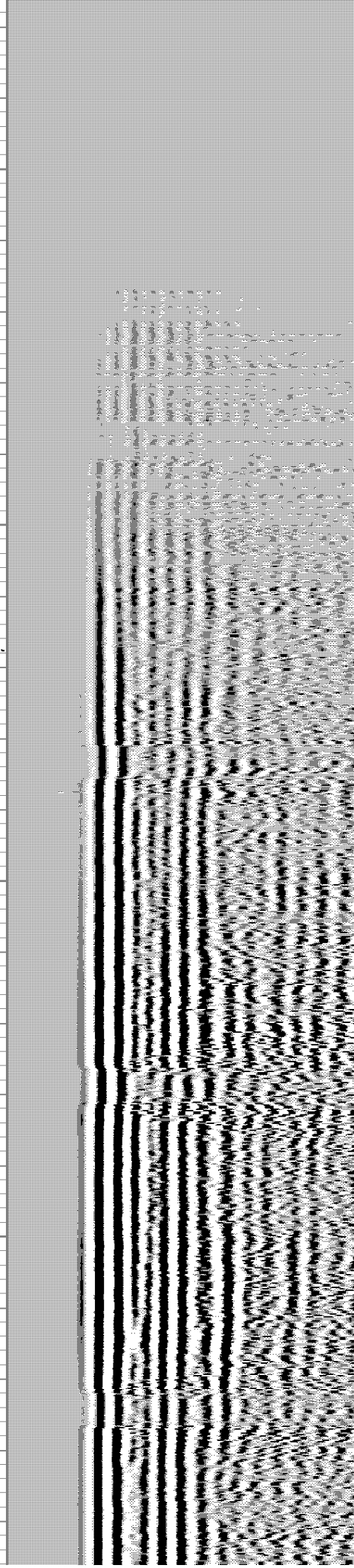
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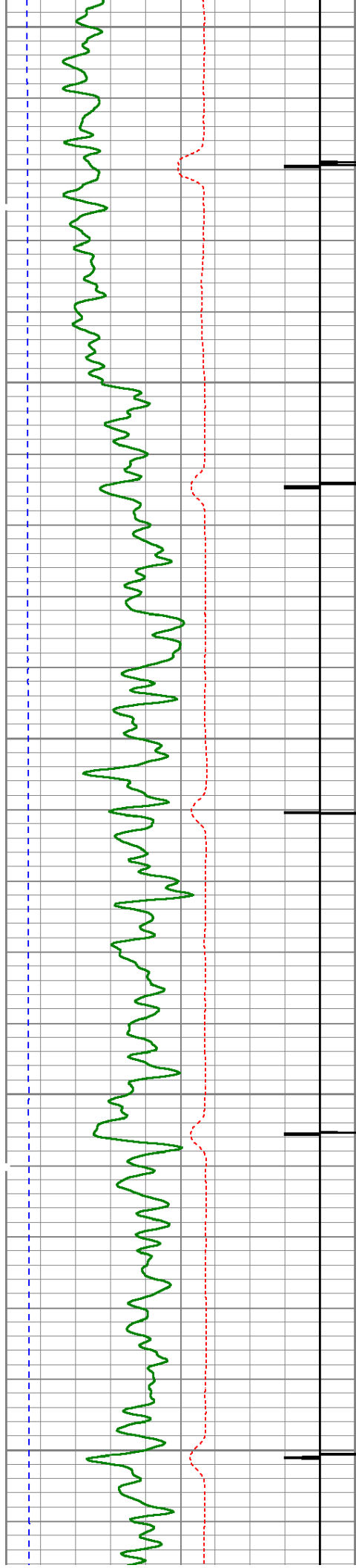
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Travel Time



Fluid Level





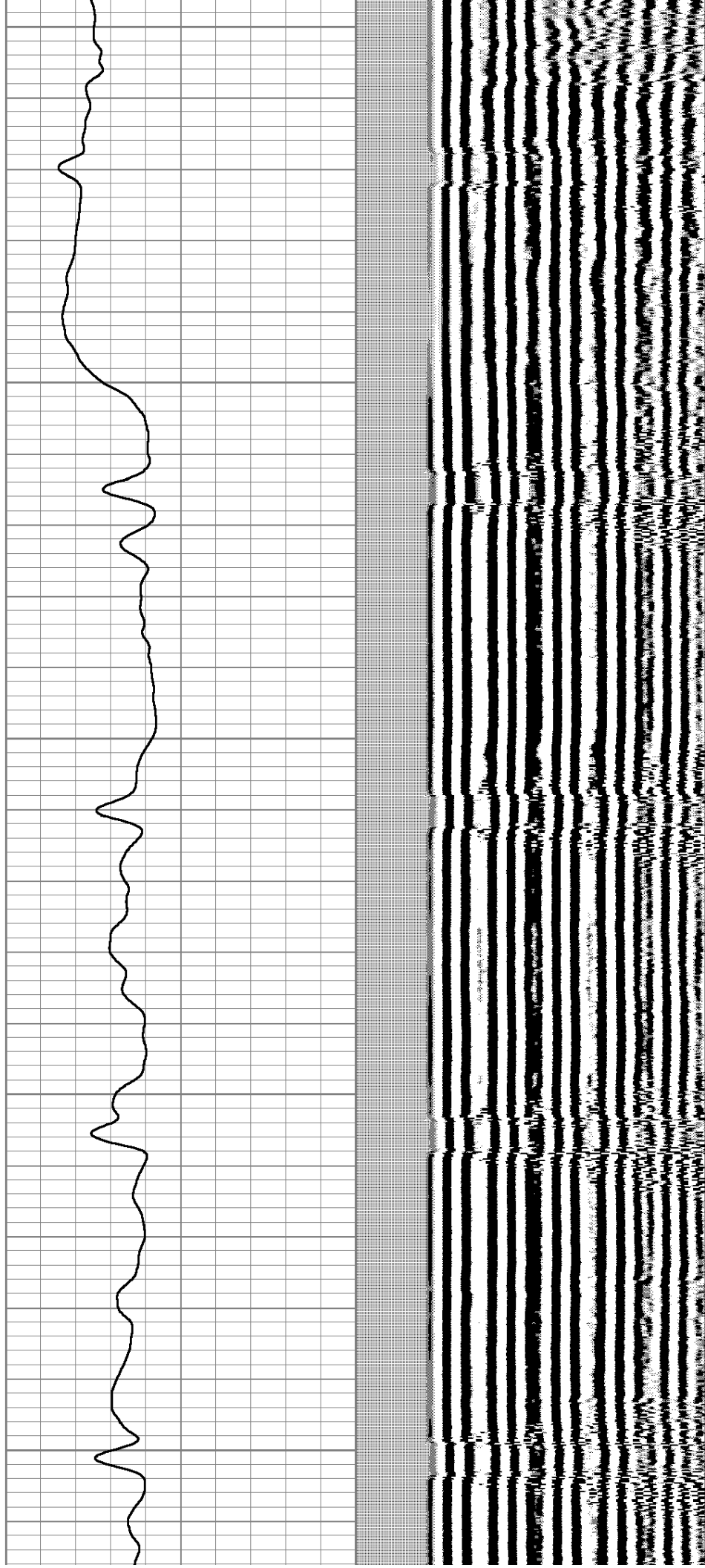
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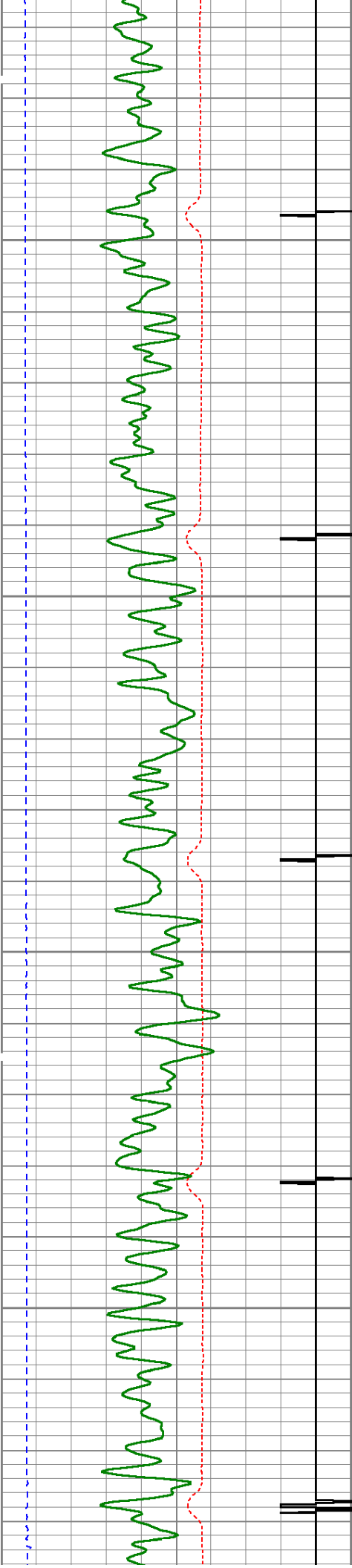
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500

550

600



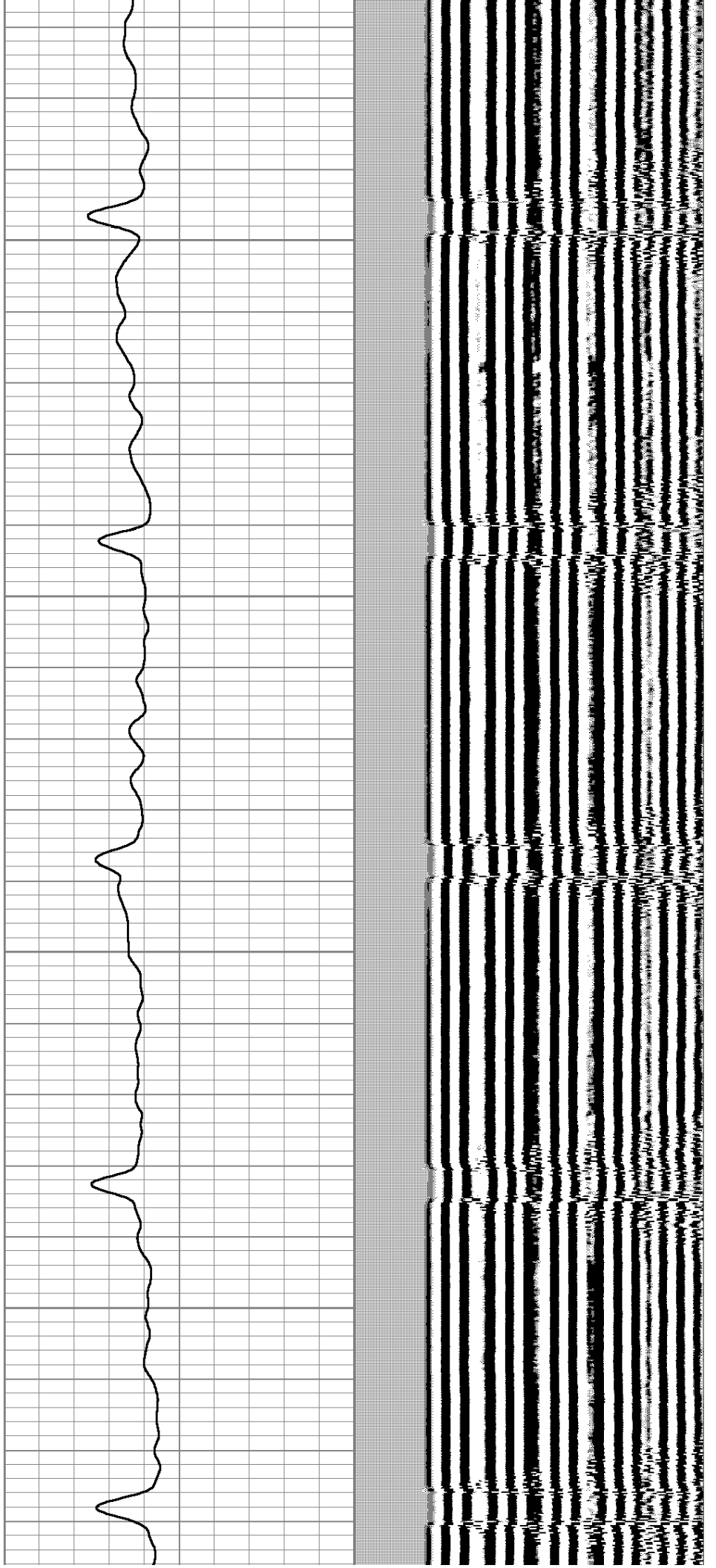


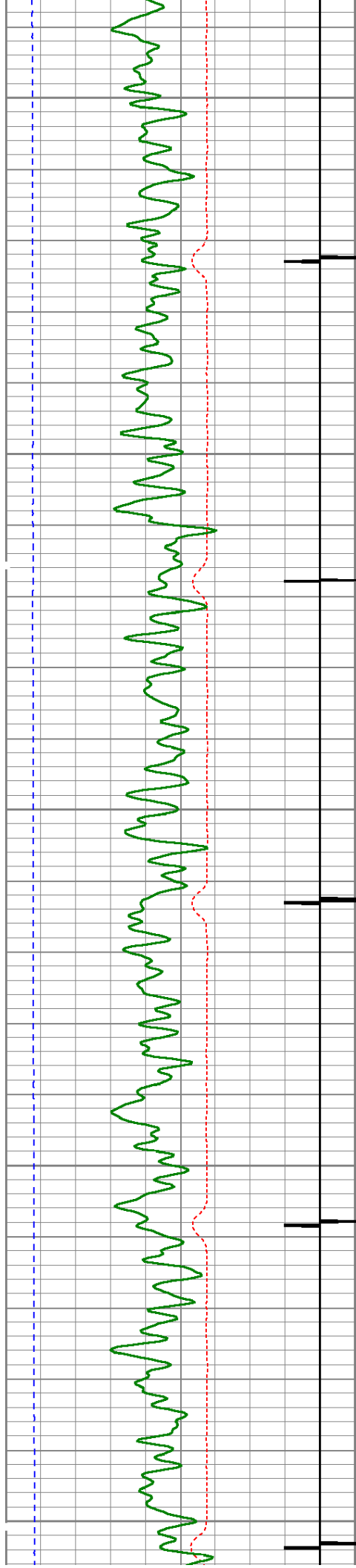
650

700

750

800





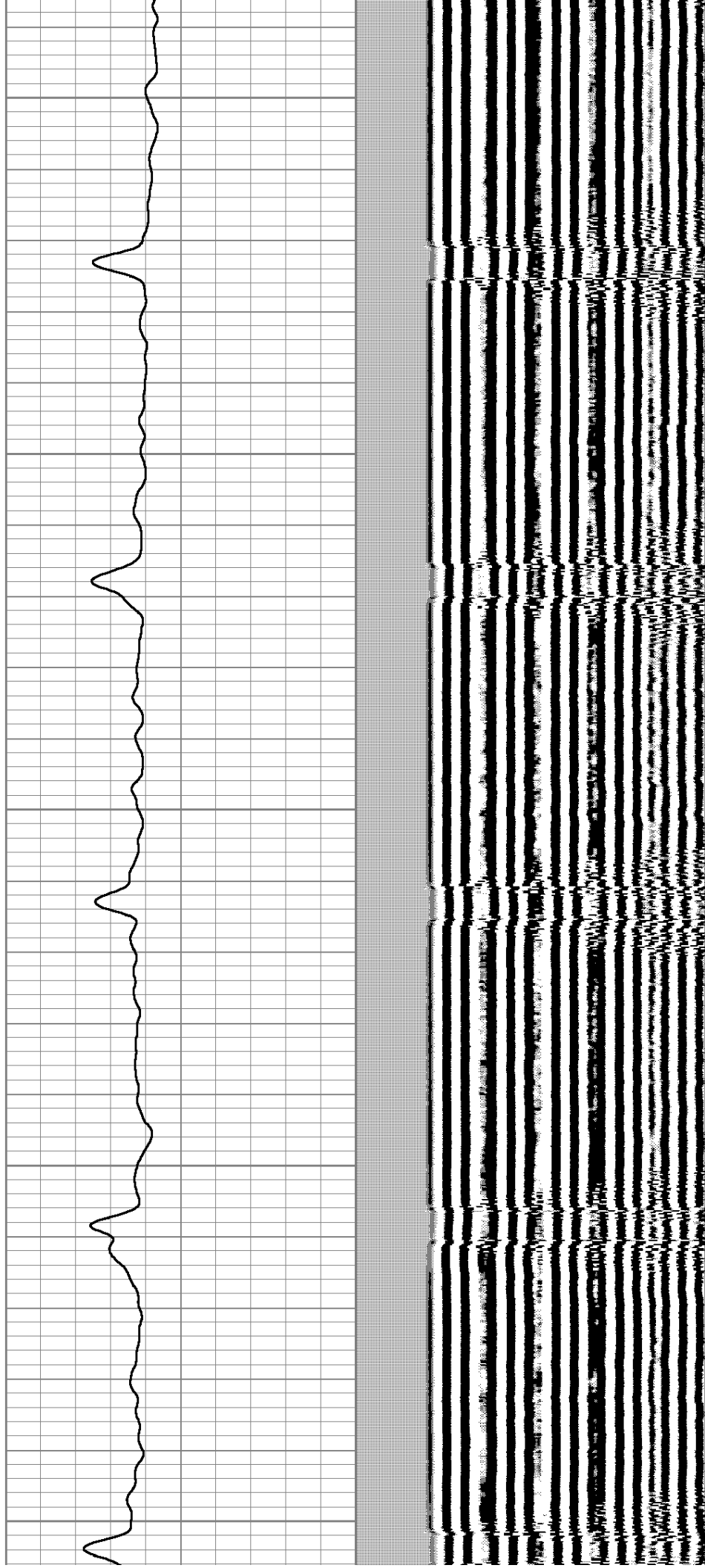
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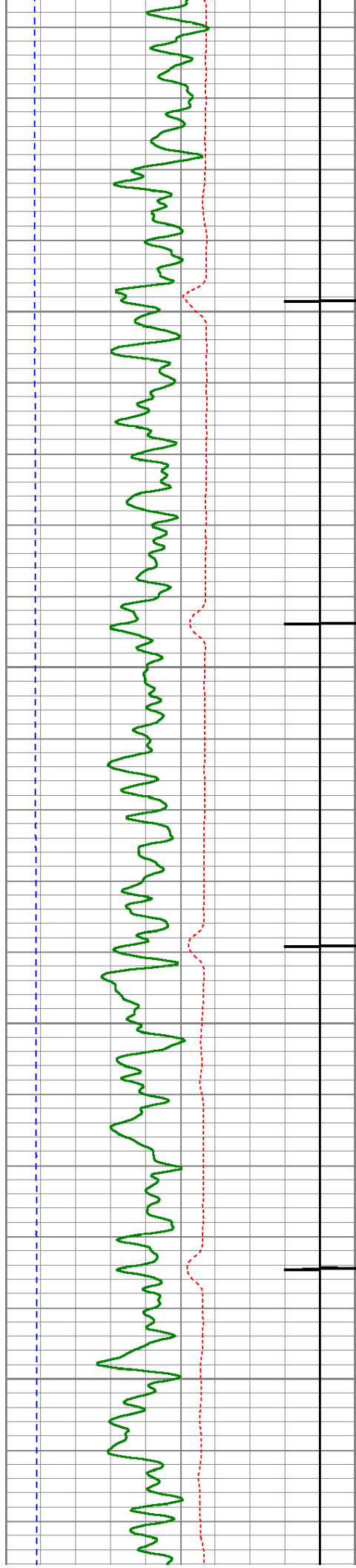
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950

1000

1050



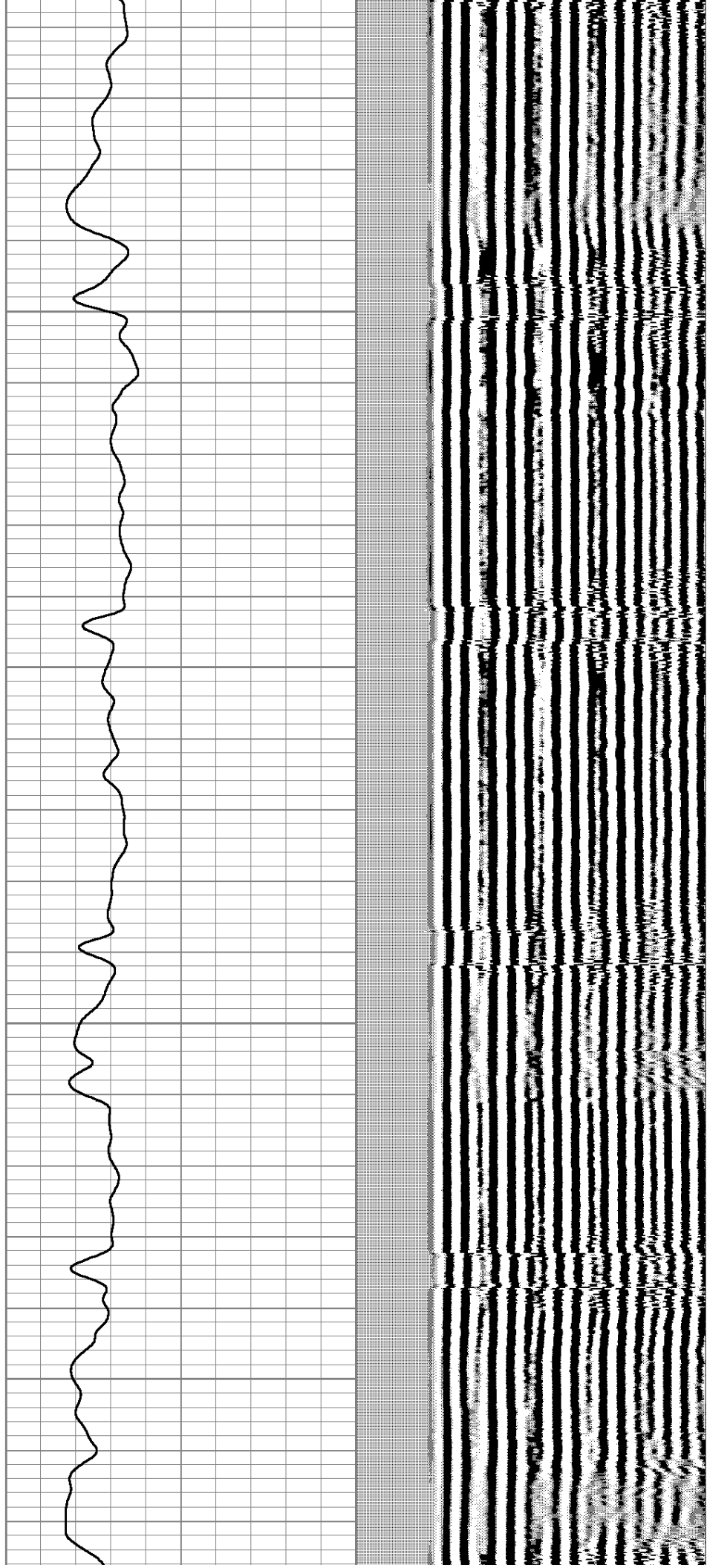


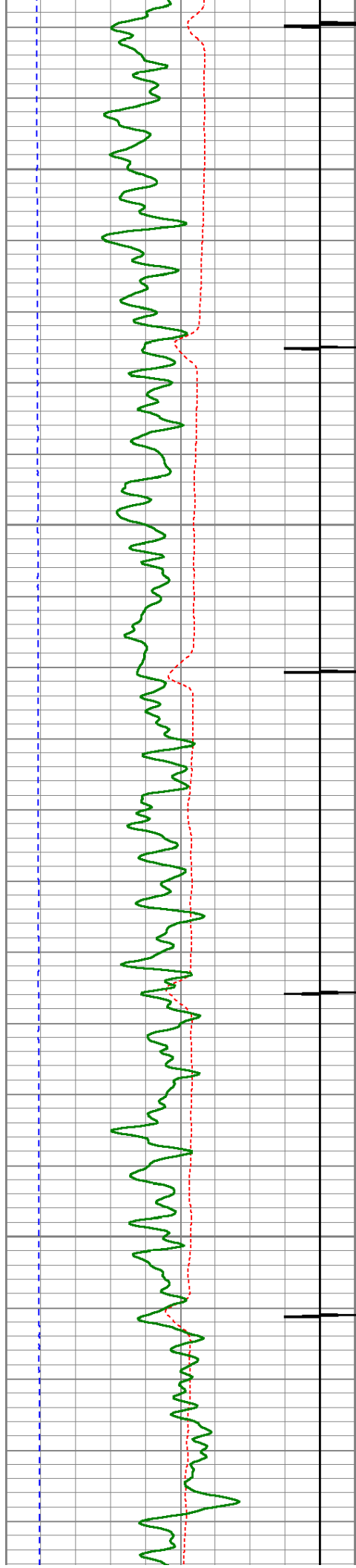
1100

1150

1200

1250



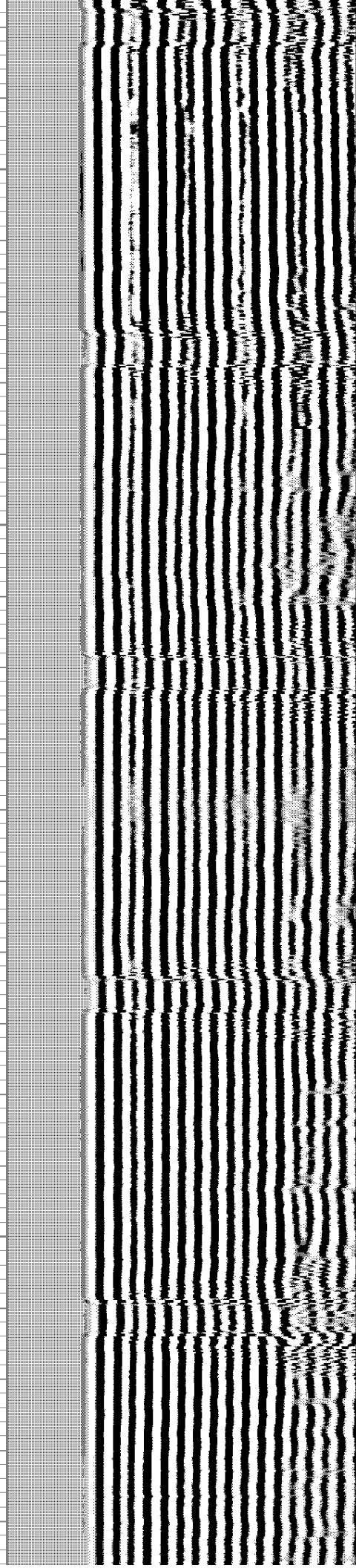
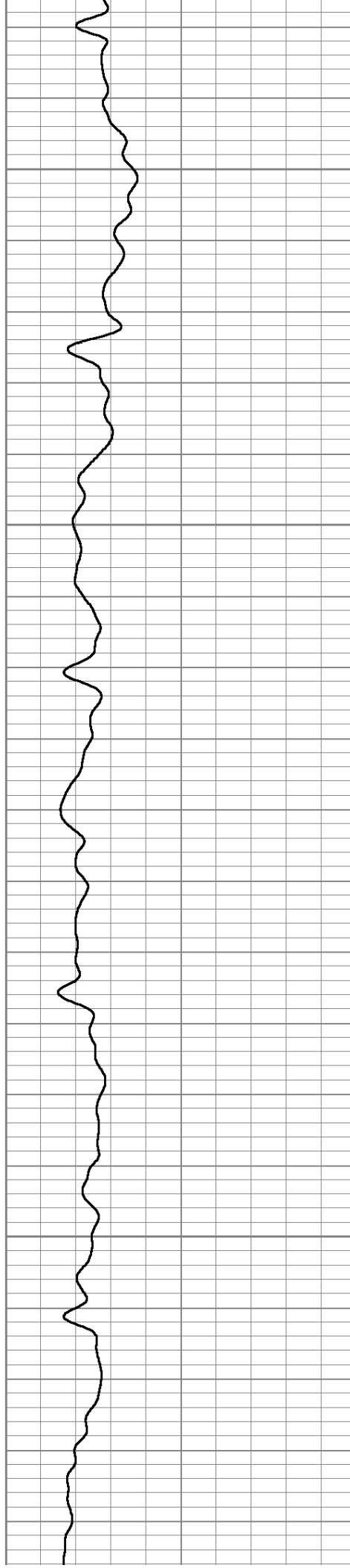


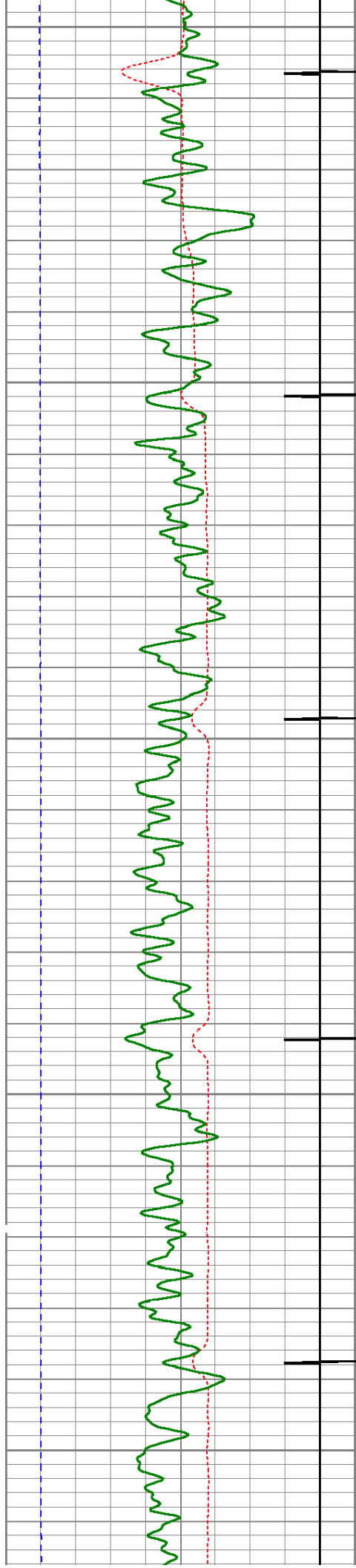
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1350

1400

1450





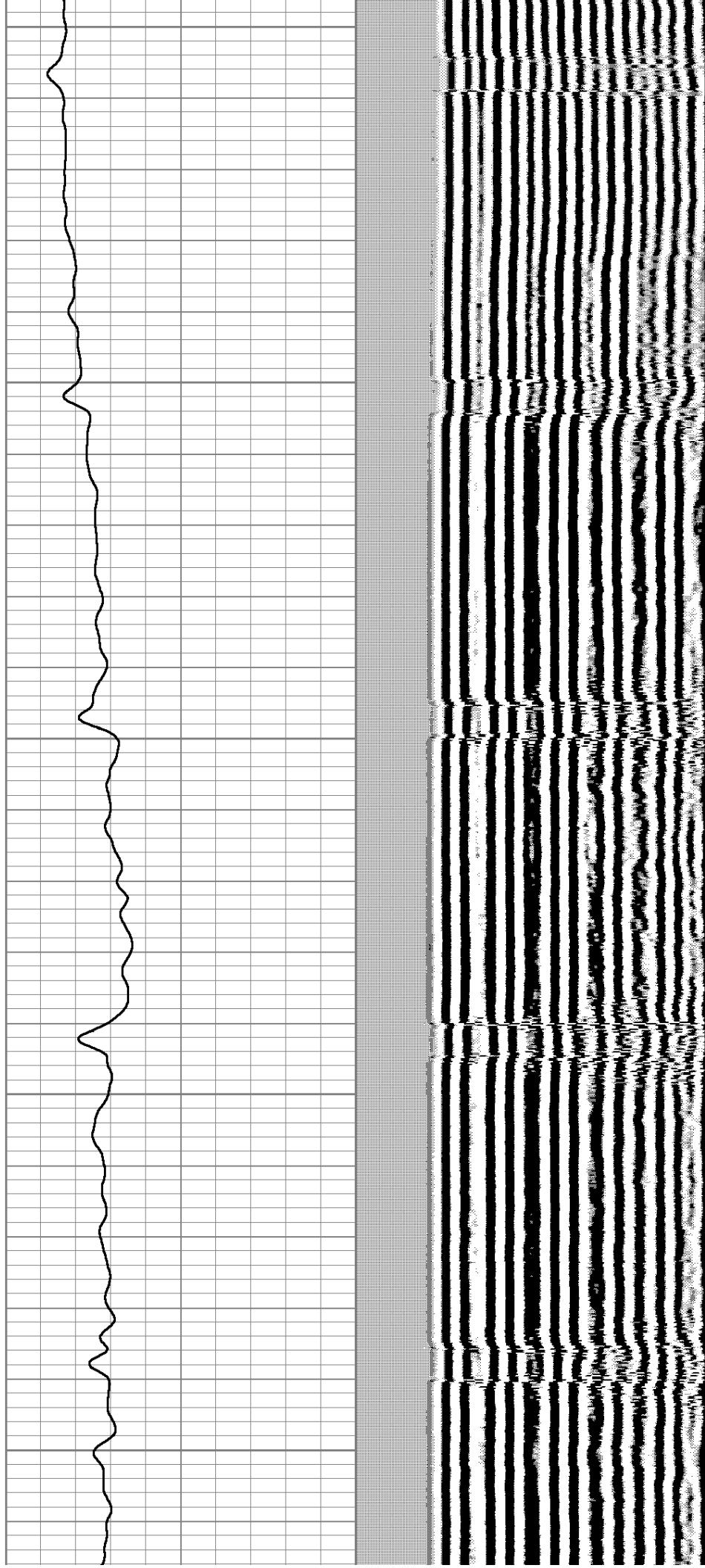
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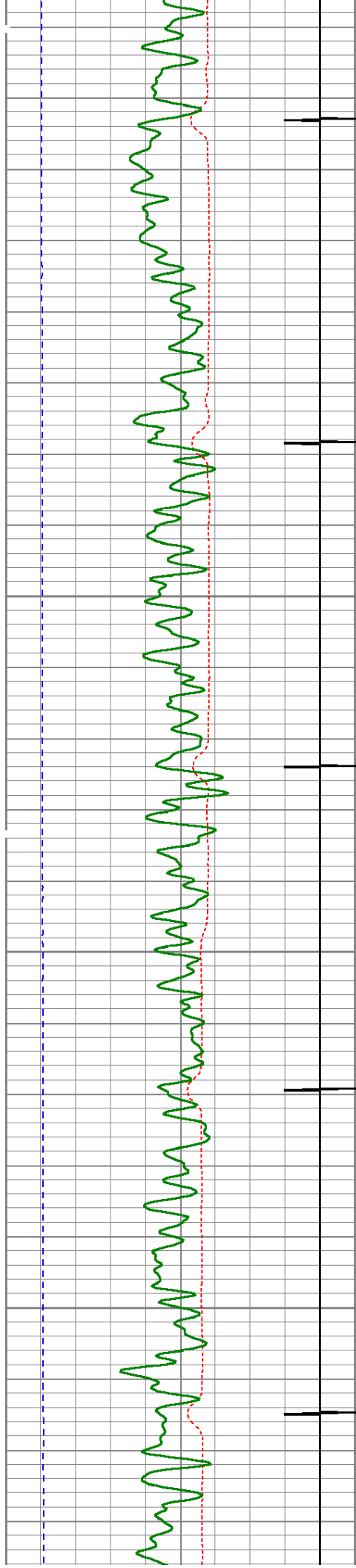
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1650

1700



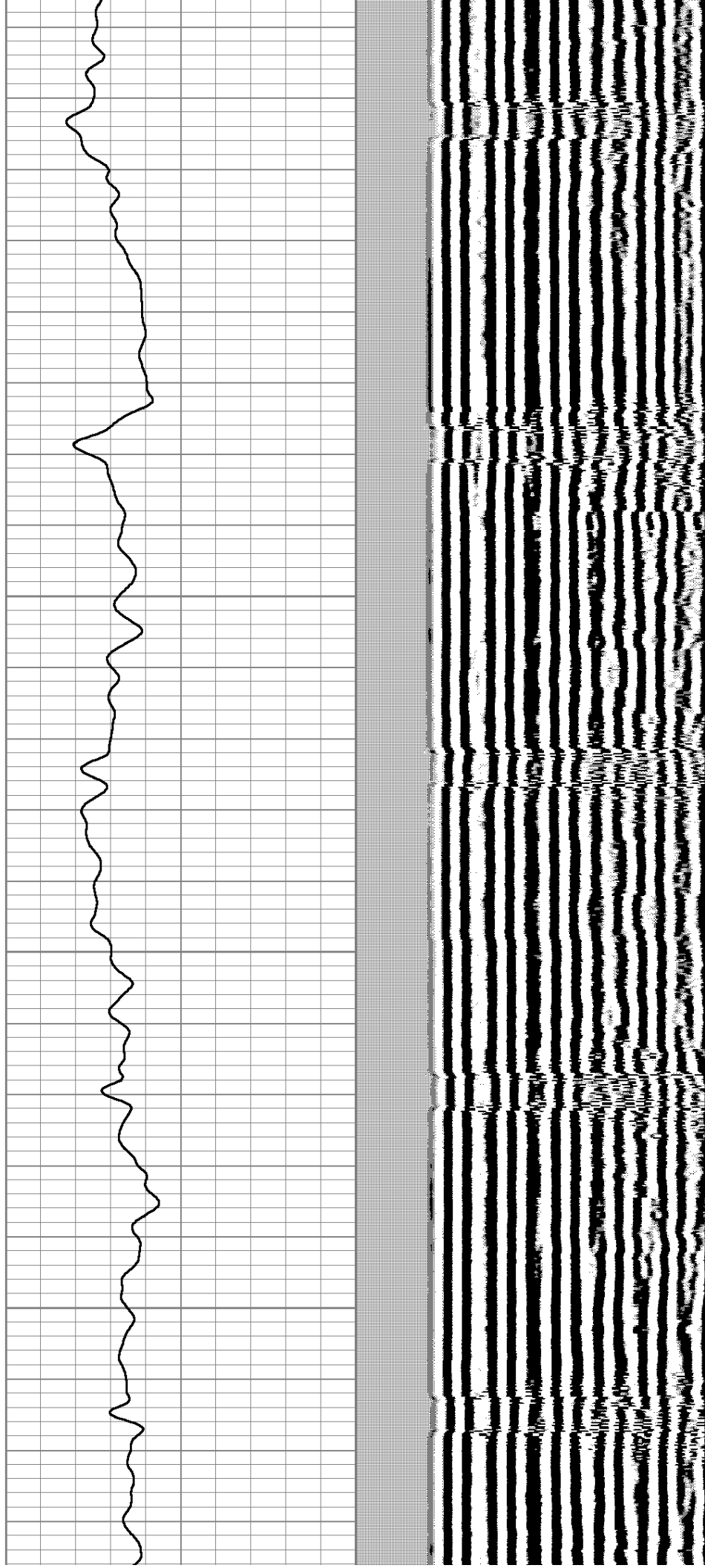


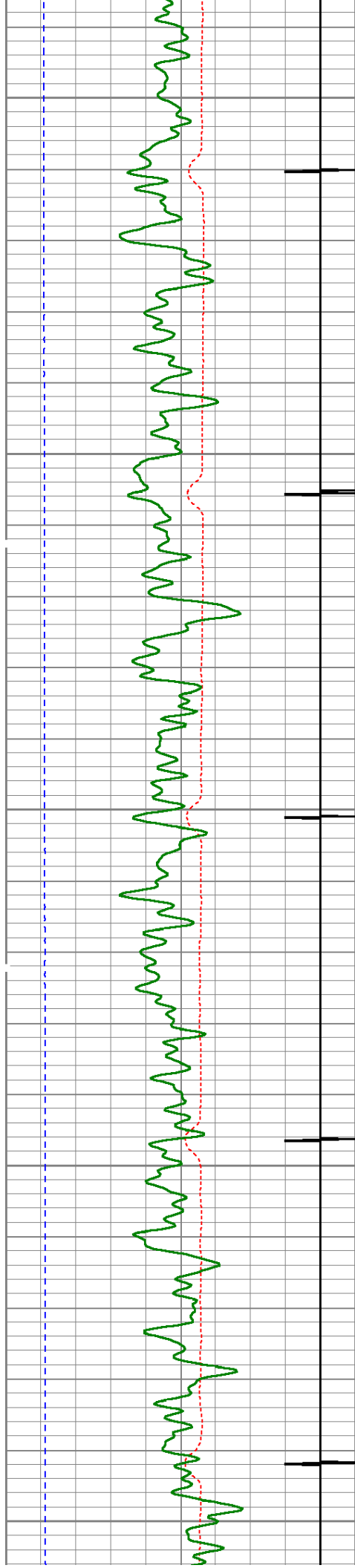
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1900





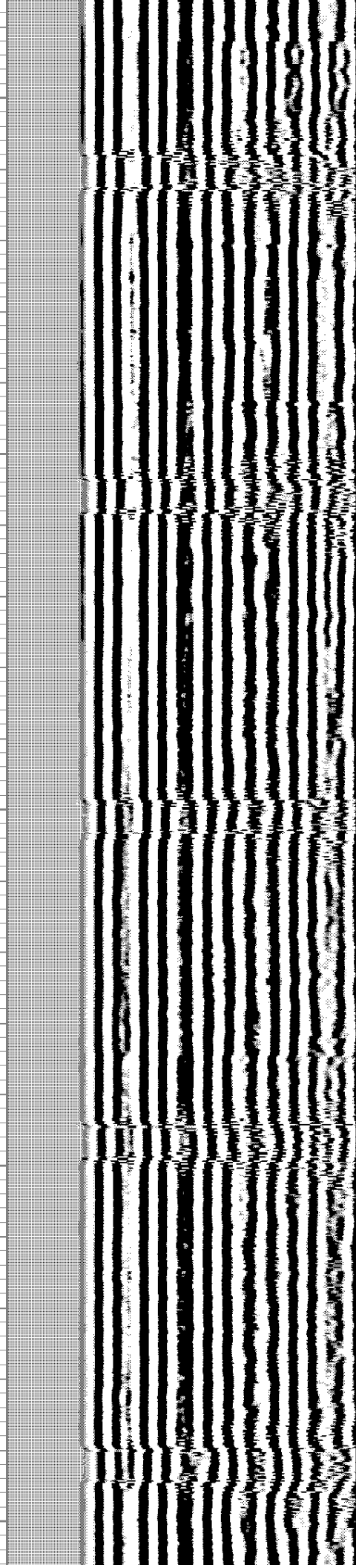
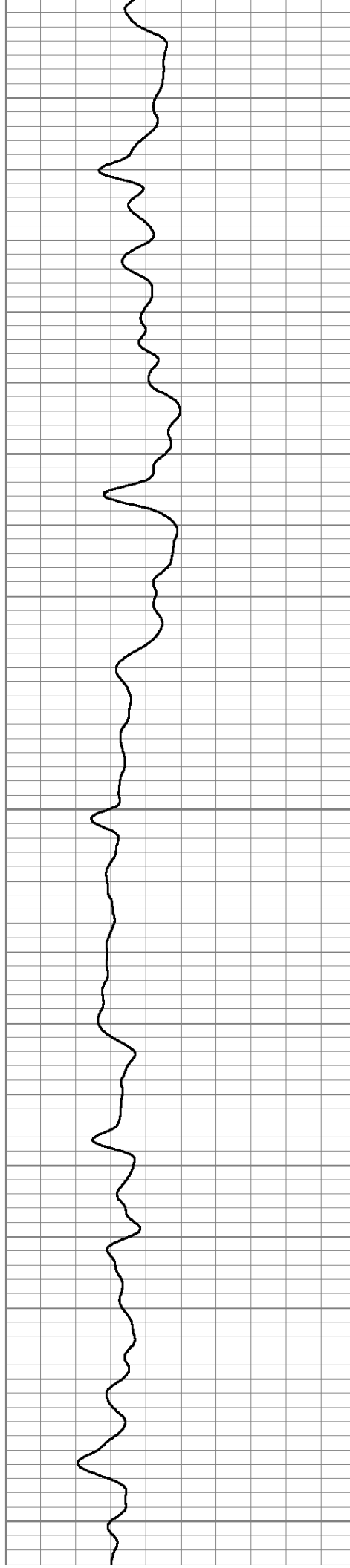
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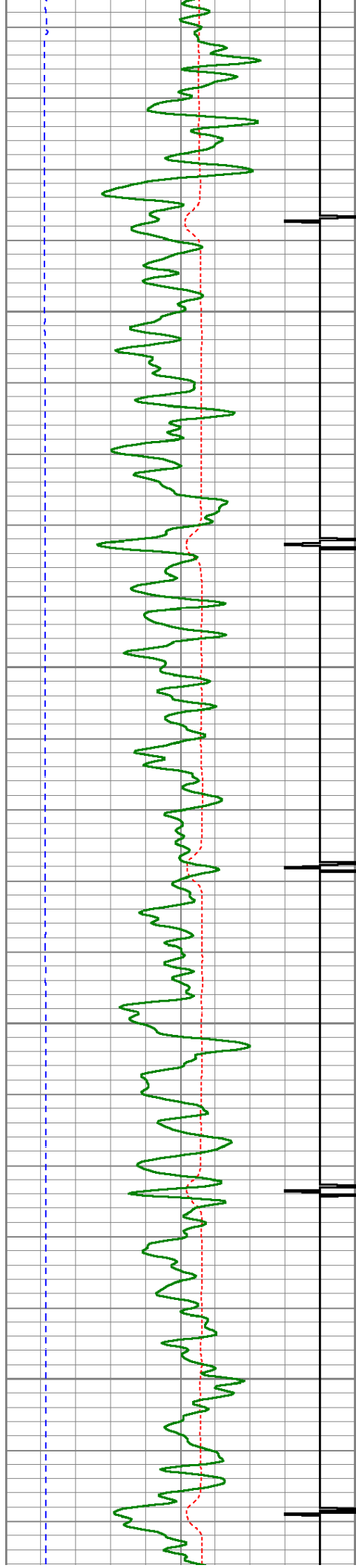
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2050

2100

2150



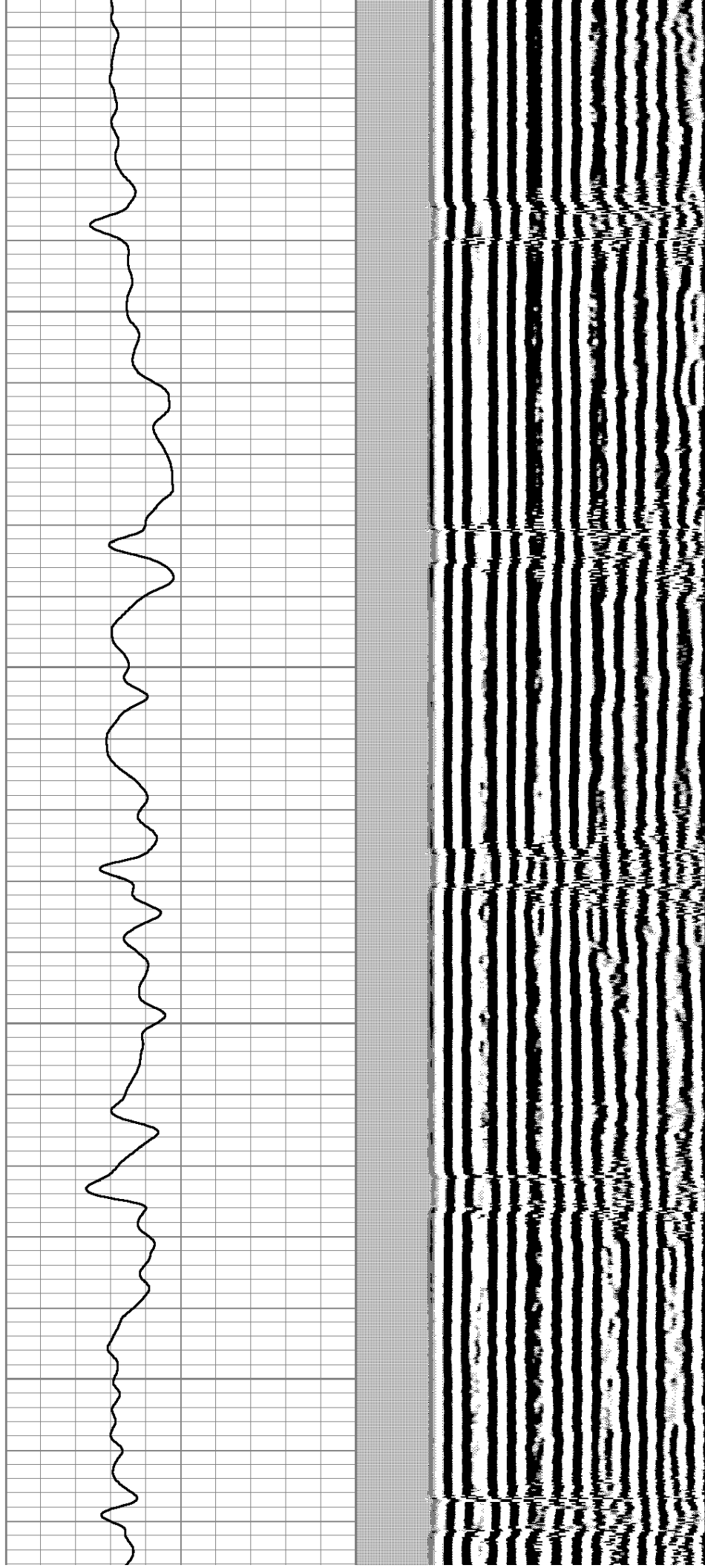


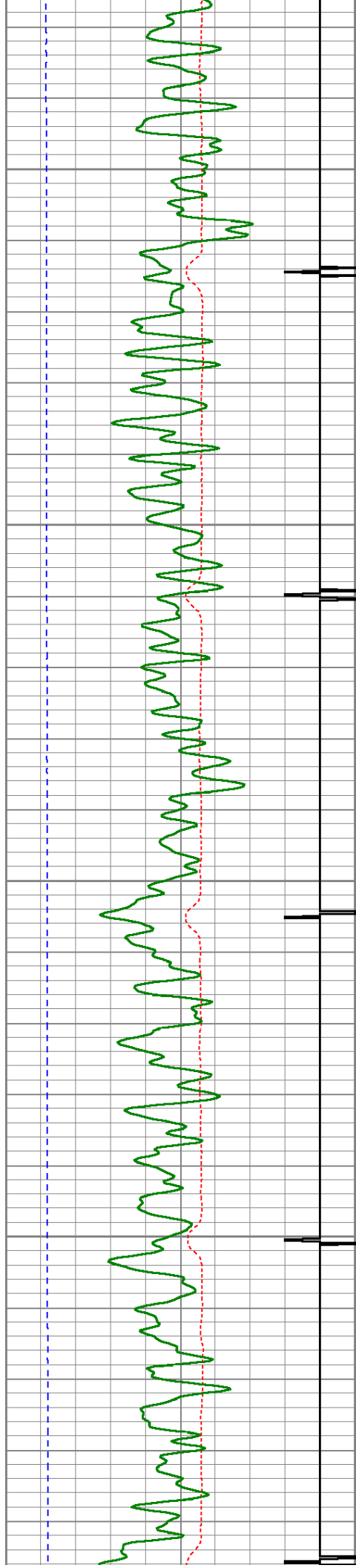
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2250

2300

2350



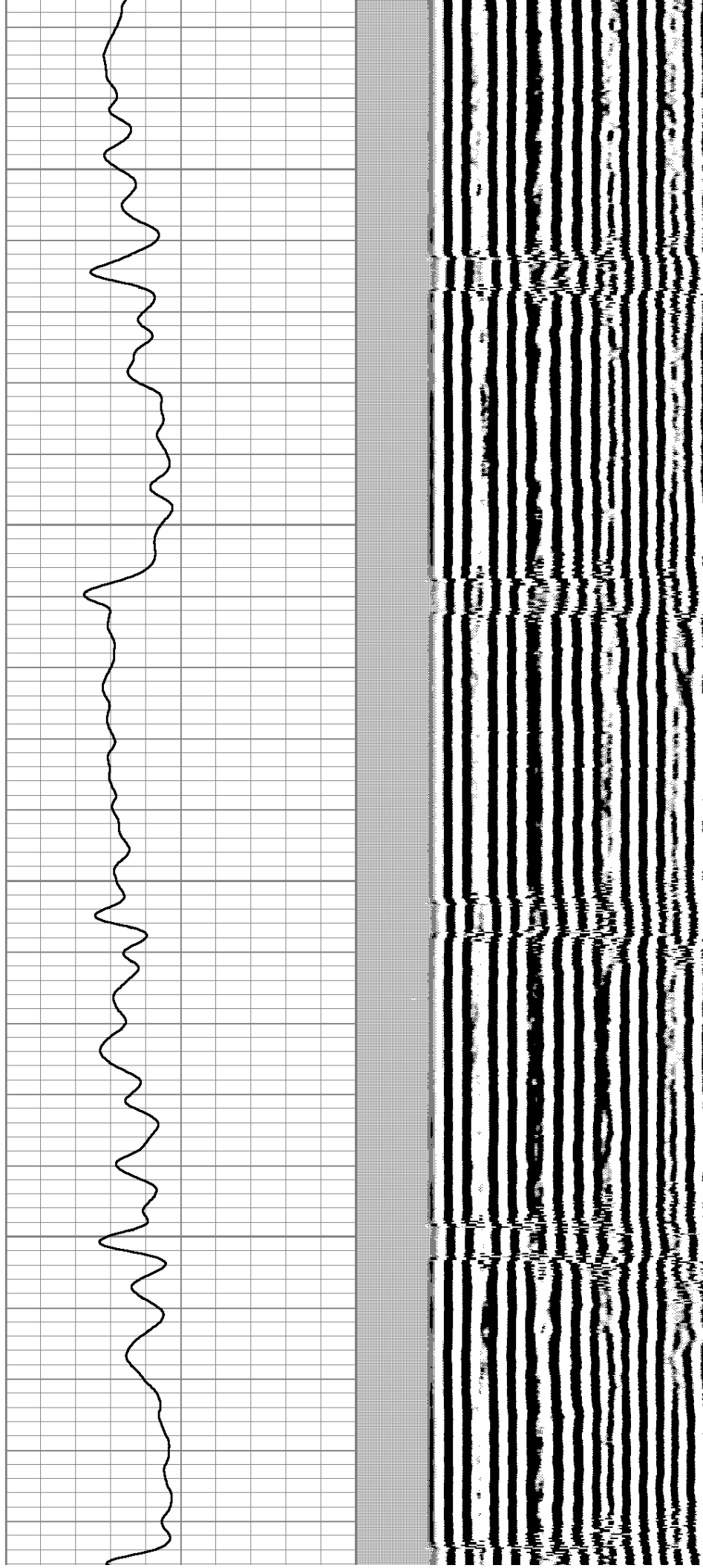


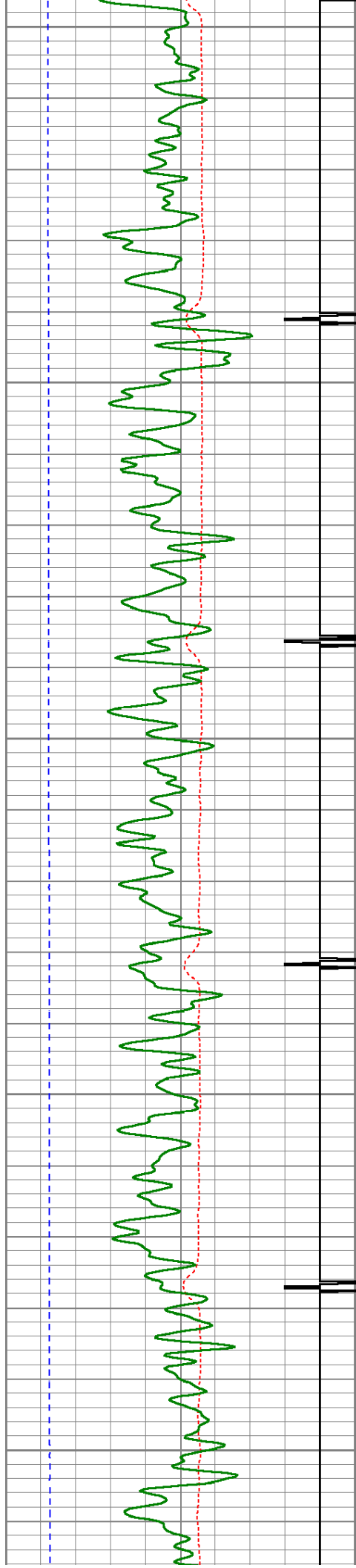
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2550





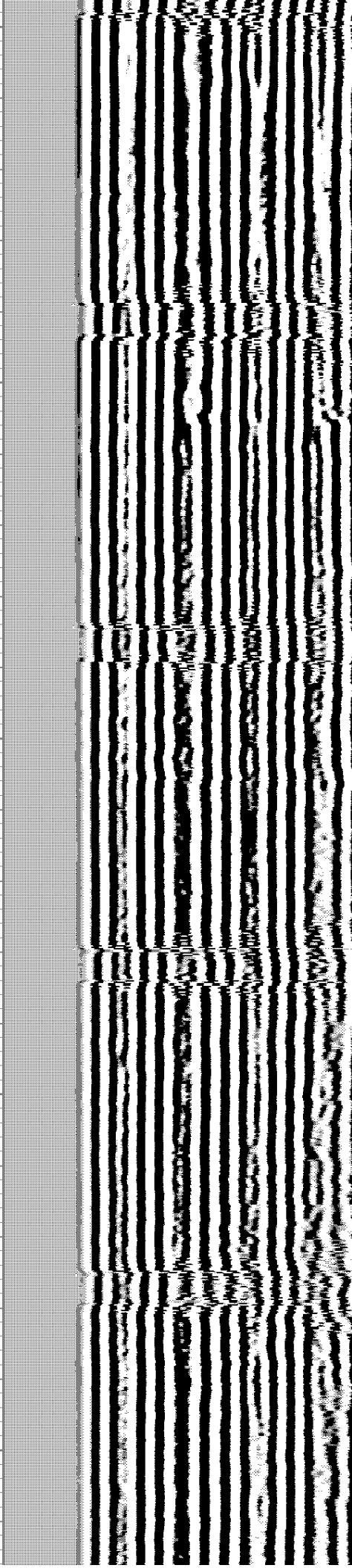
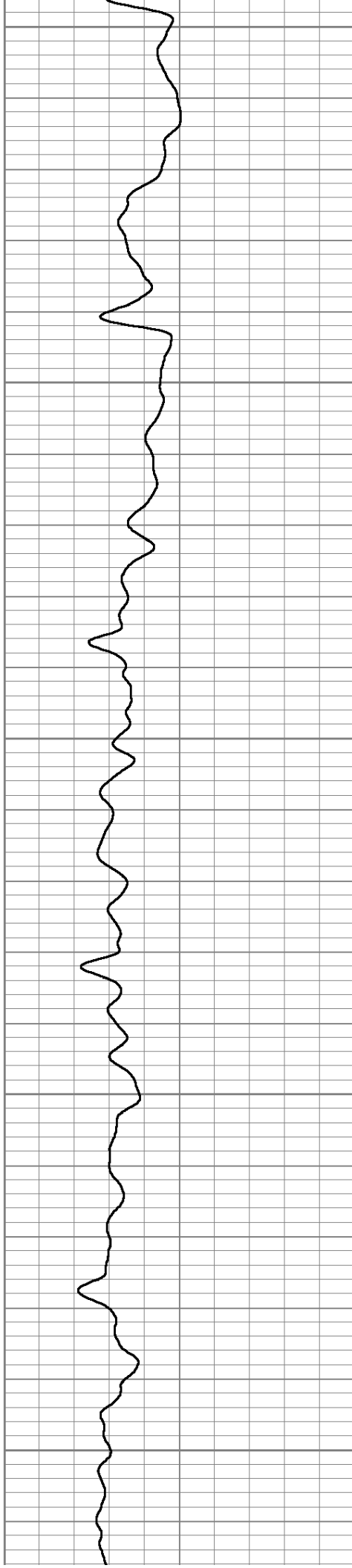
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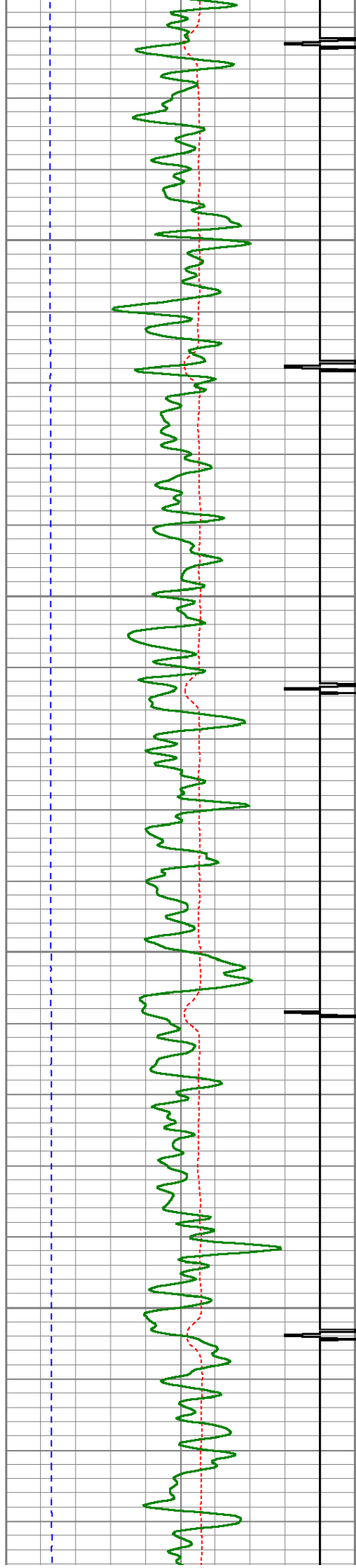
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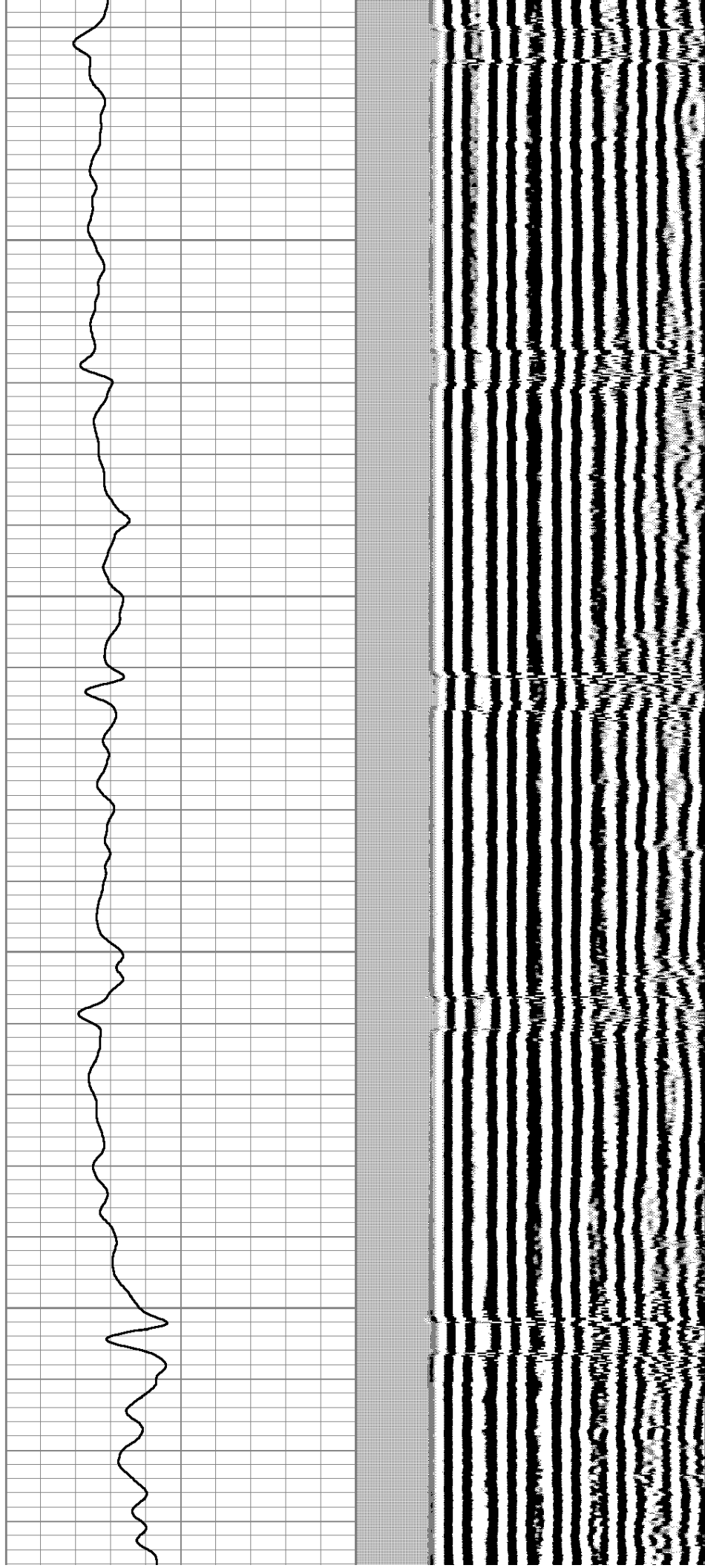


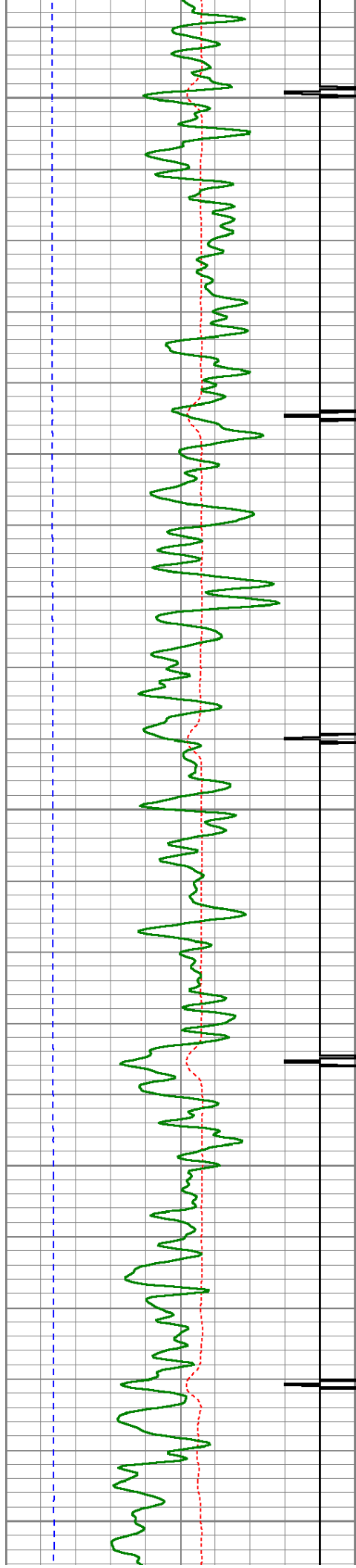
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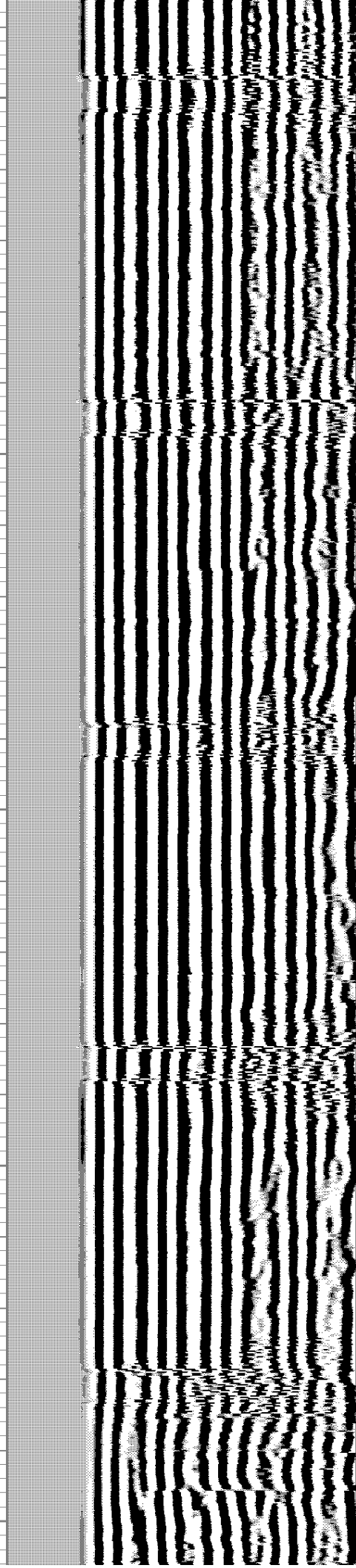
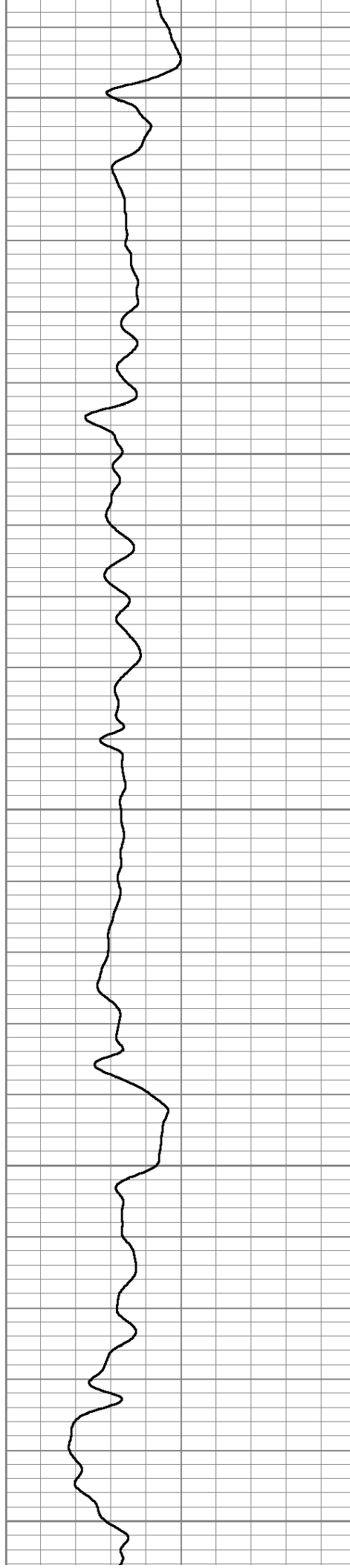
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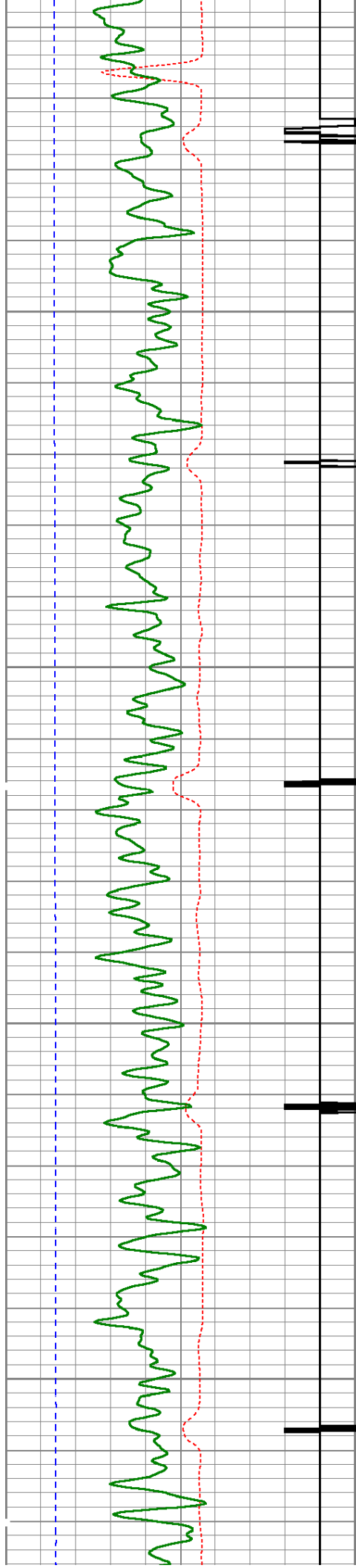
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3150

3200

3250



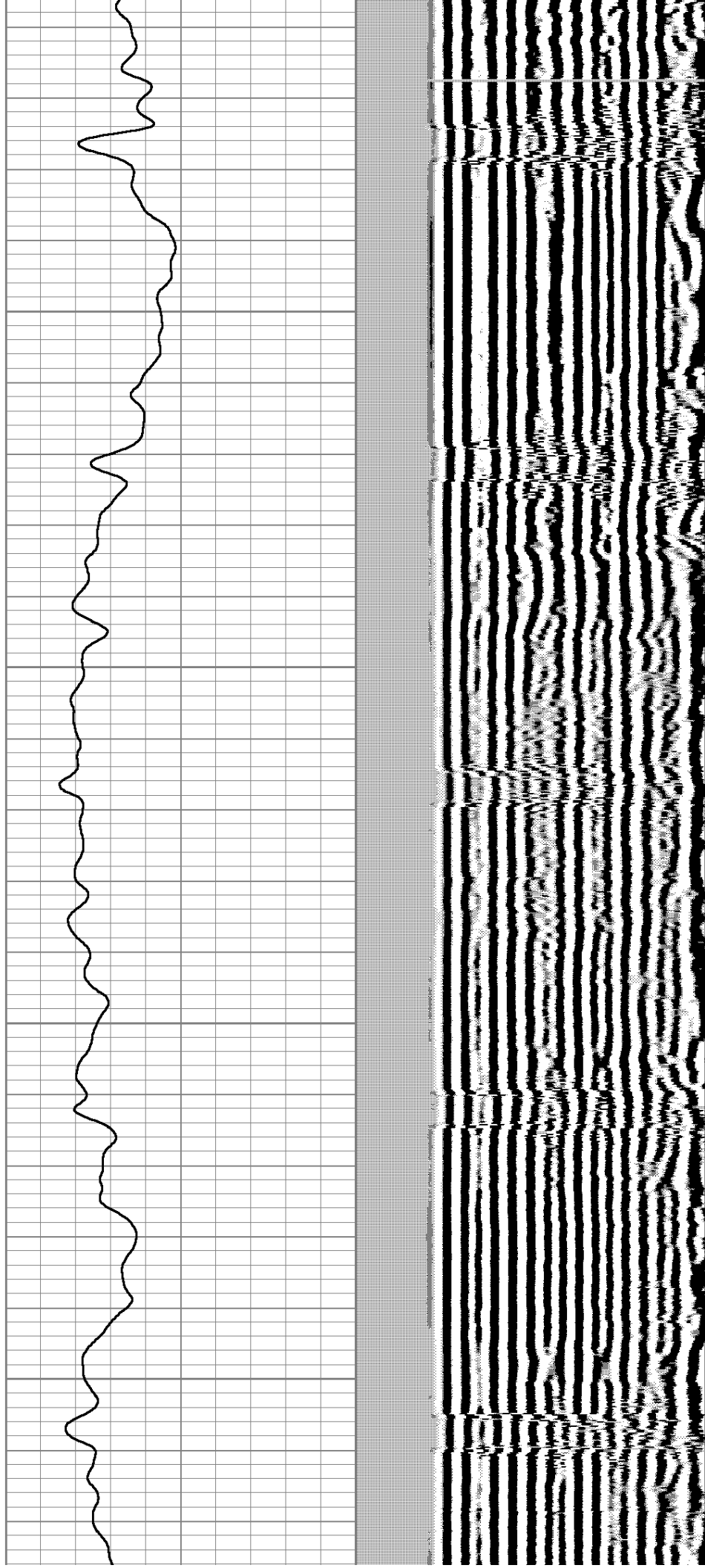


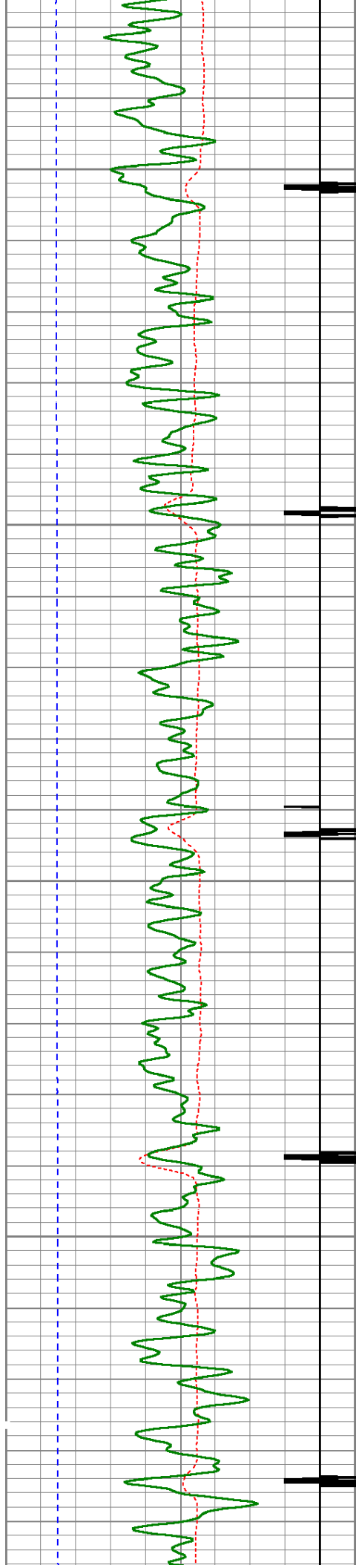
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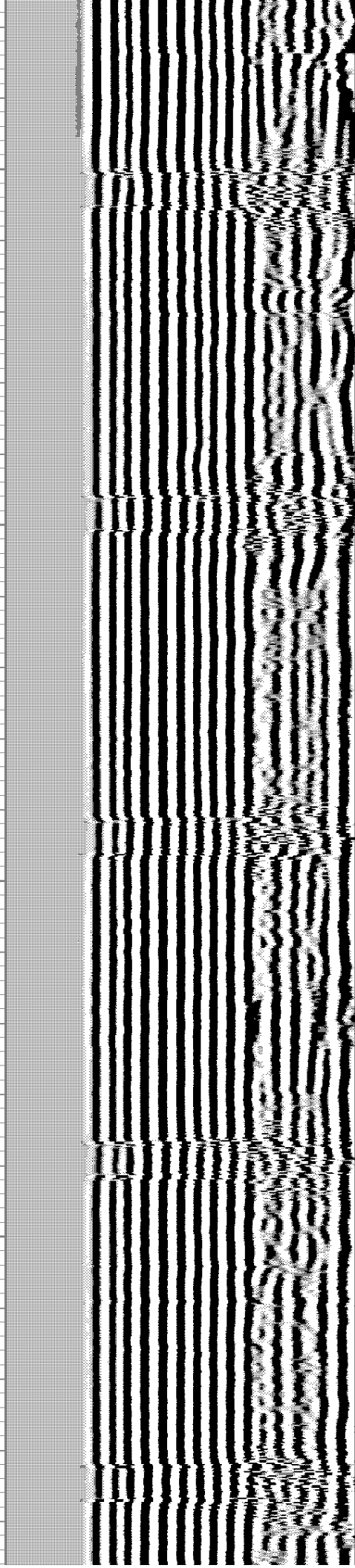
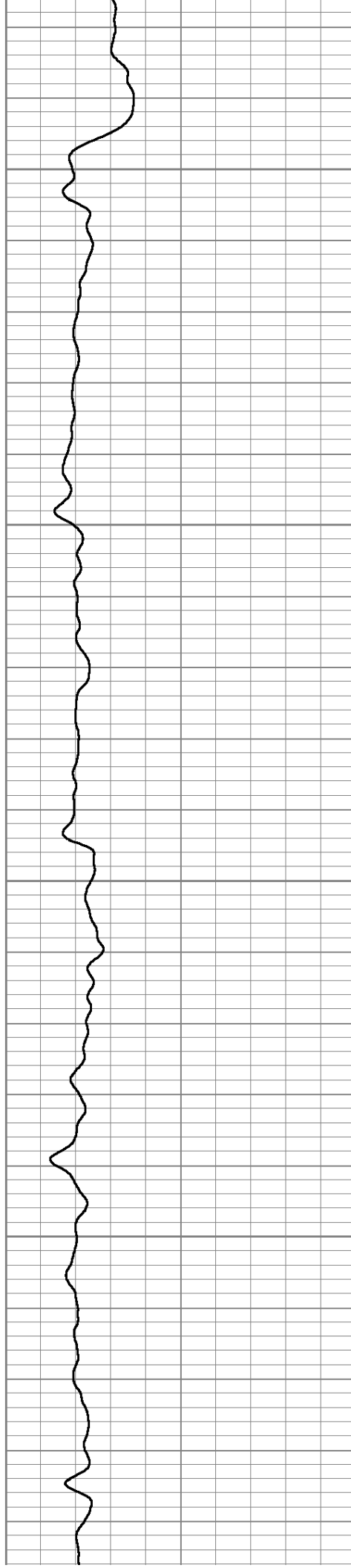


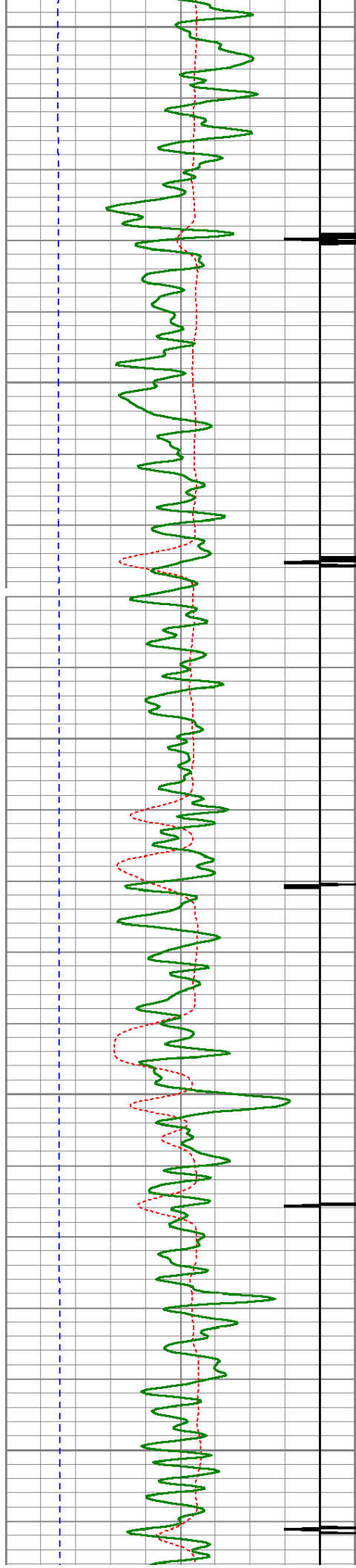
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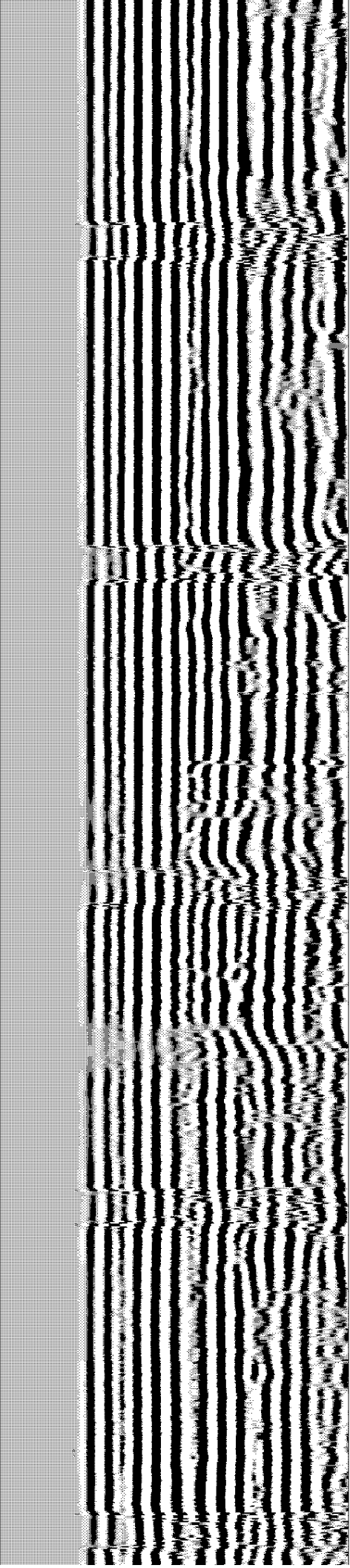
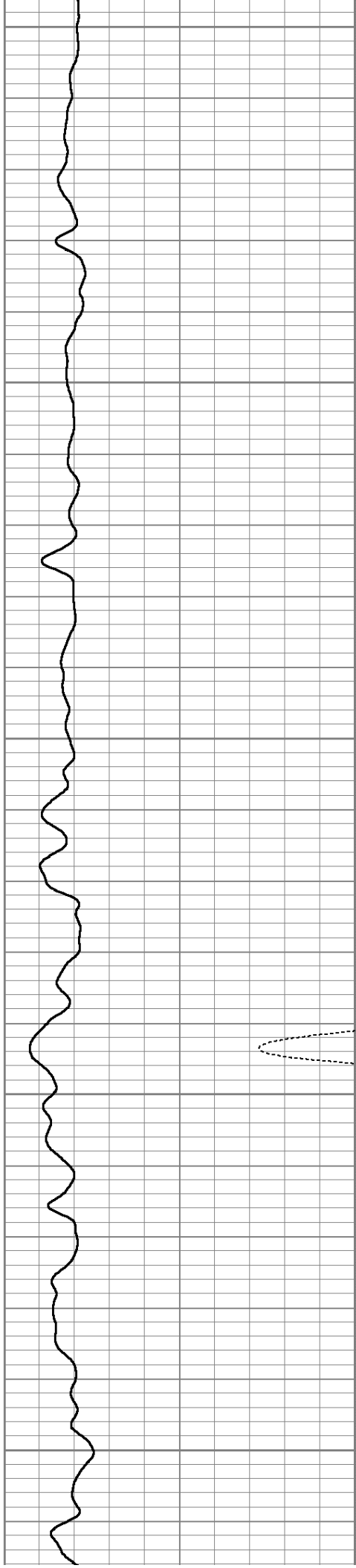
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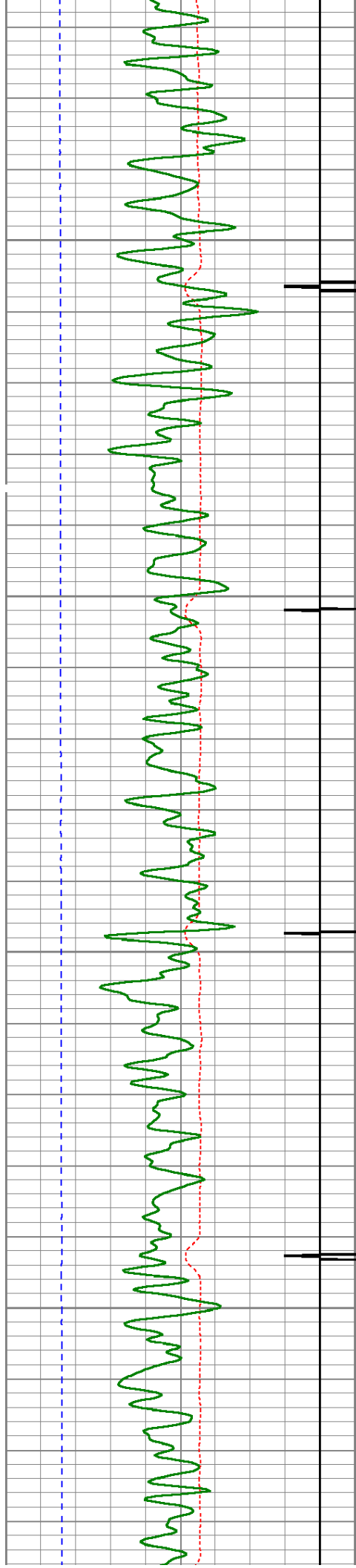
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3850

3900



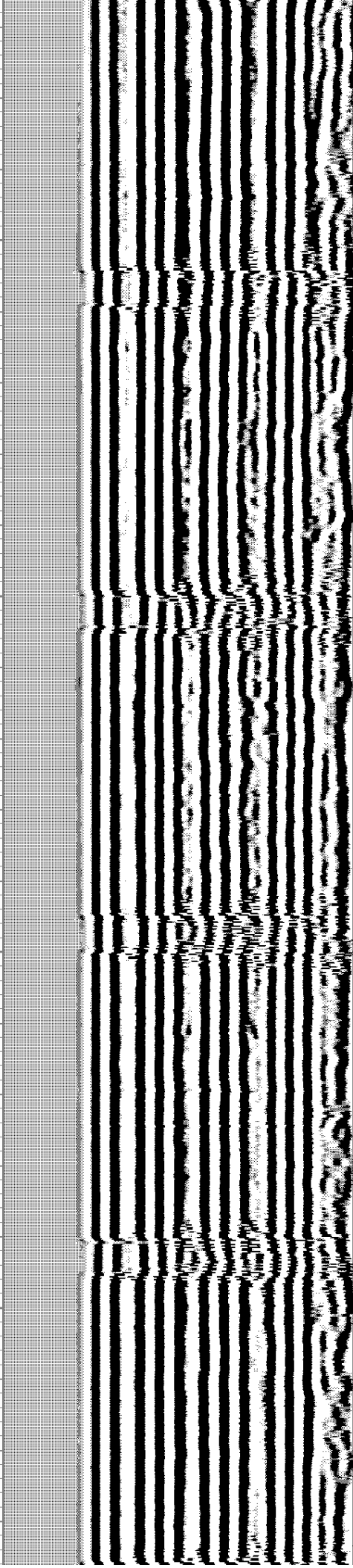
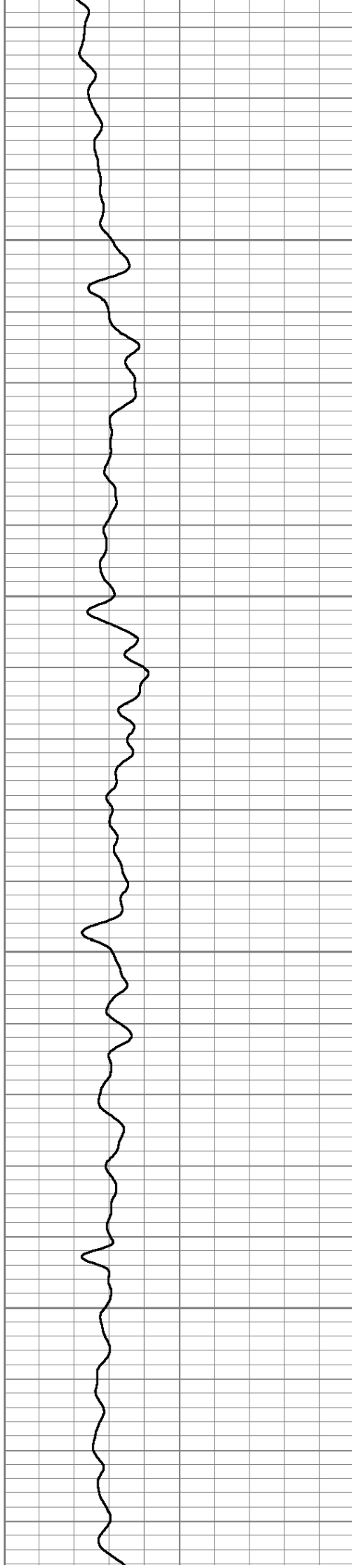


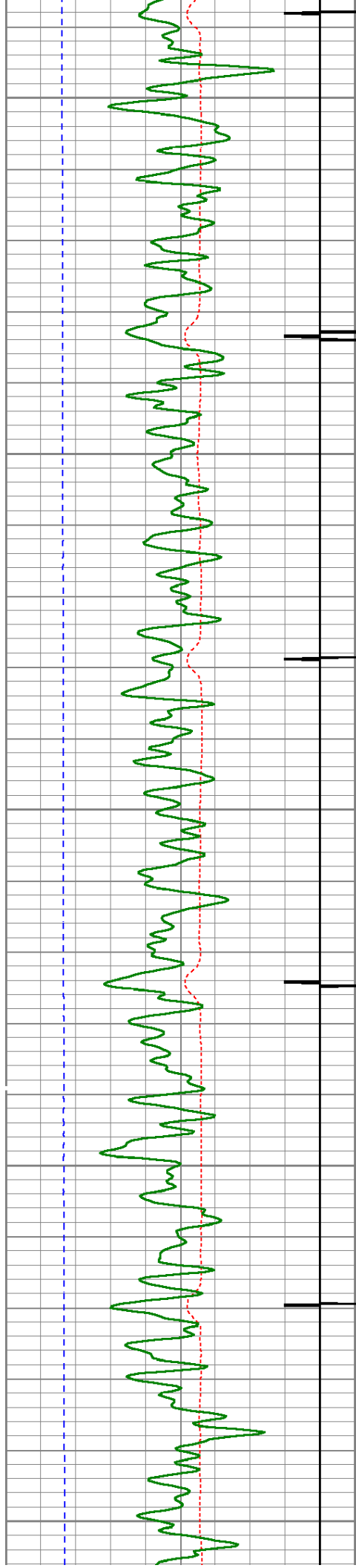
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4050

4100





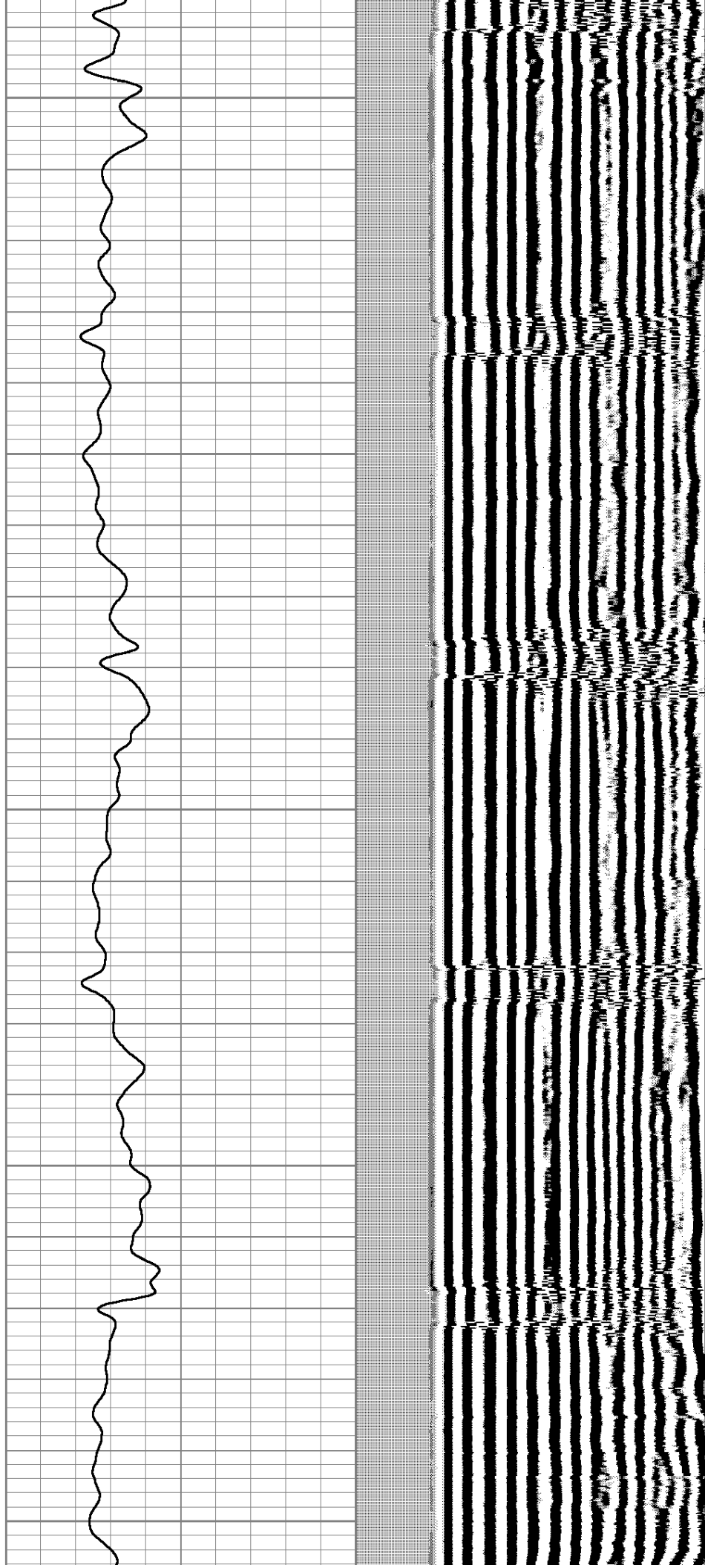
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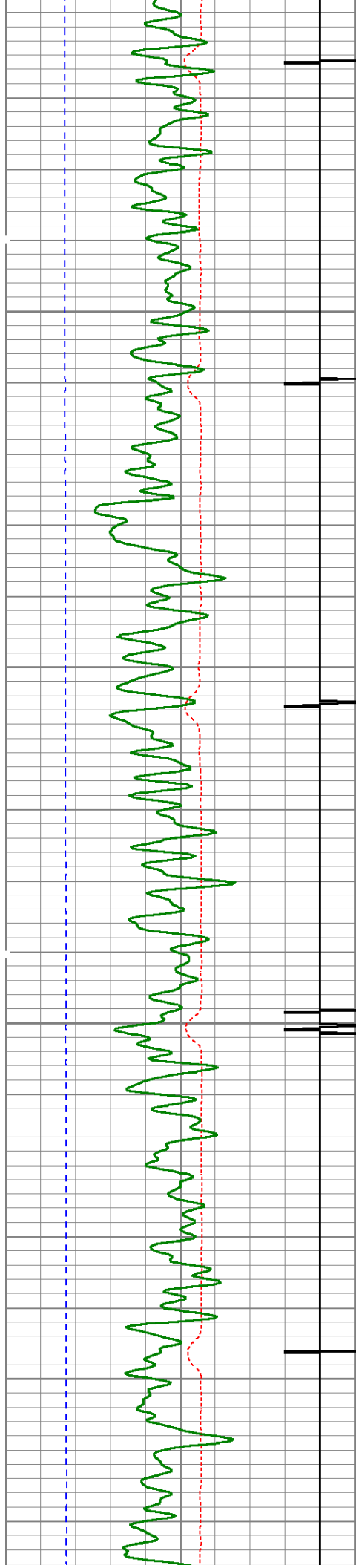
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4350



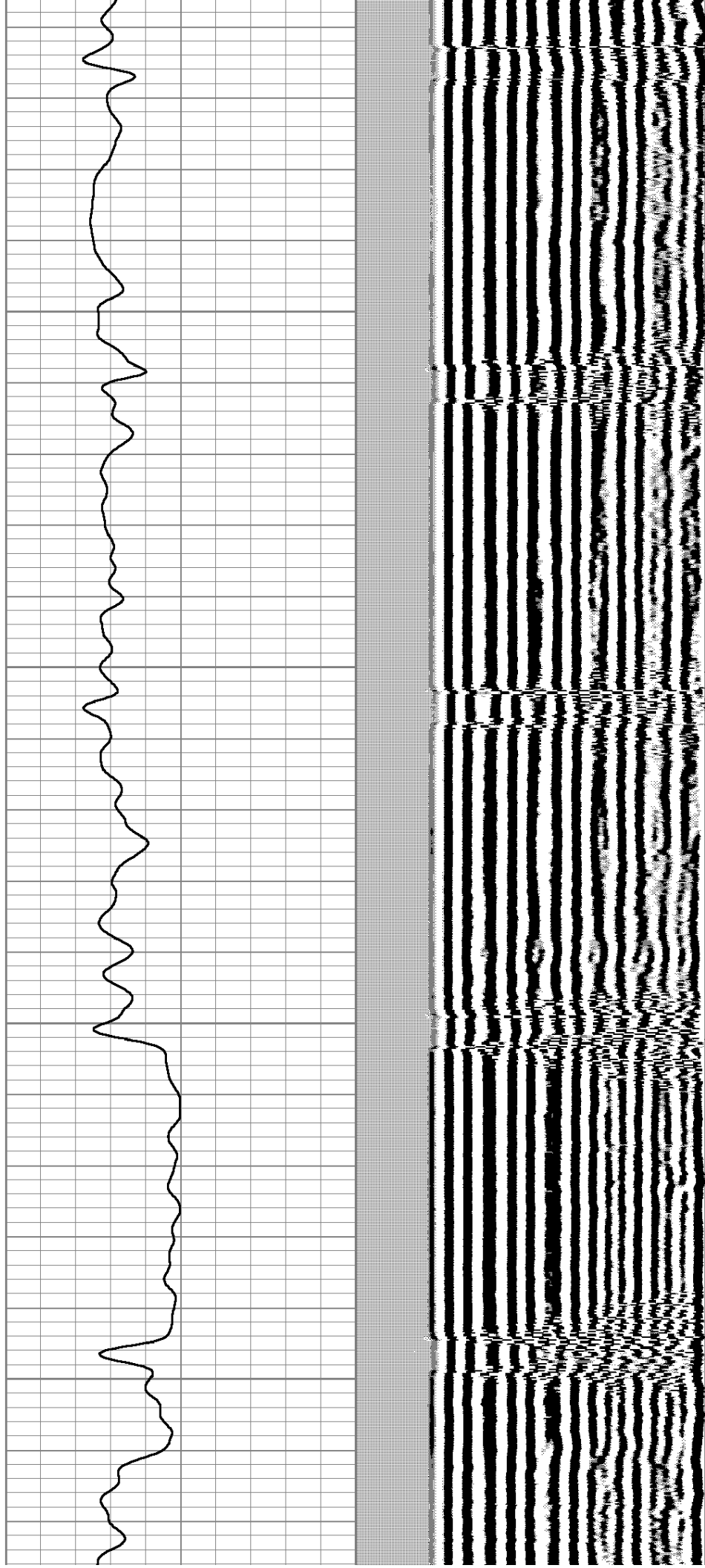


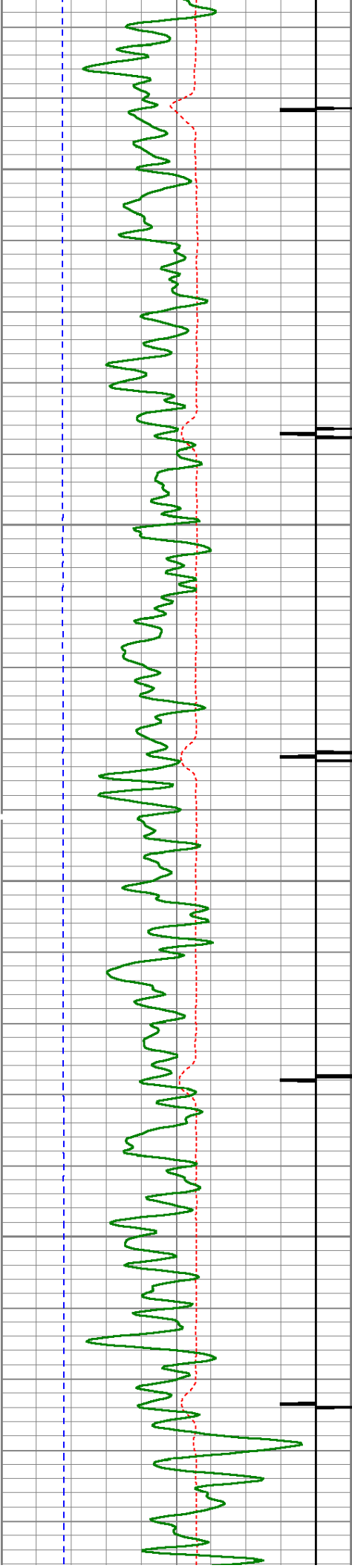
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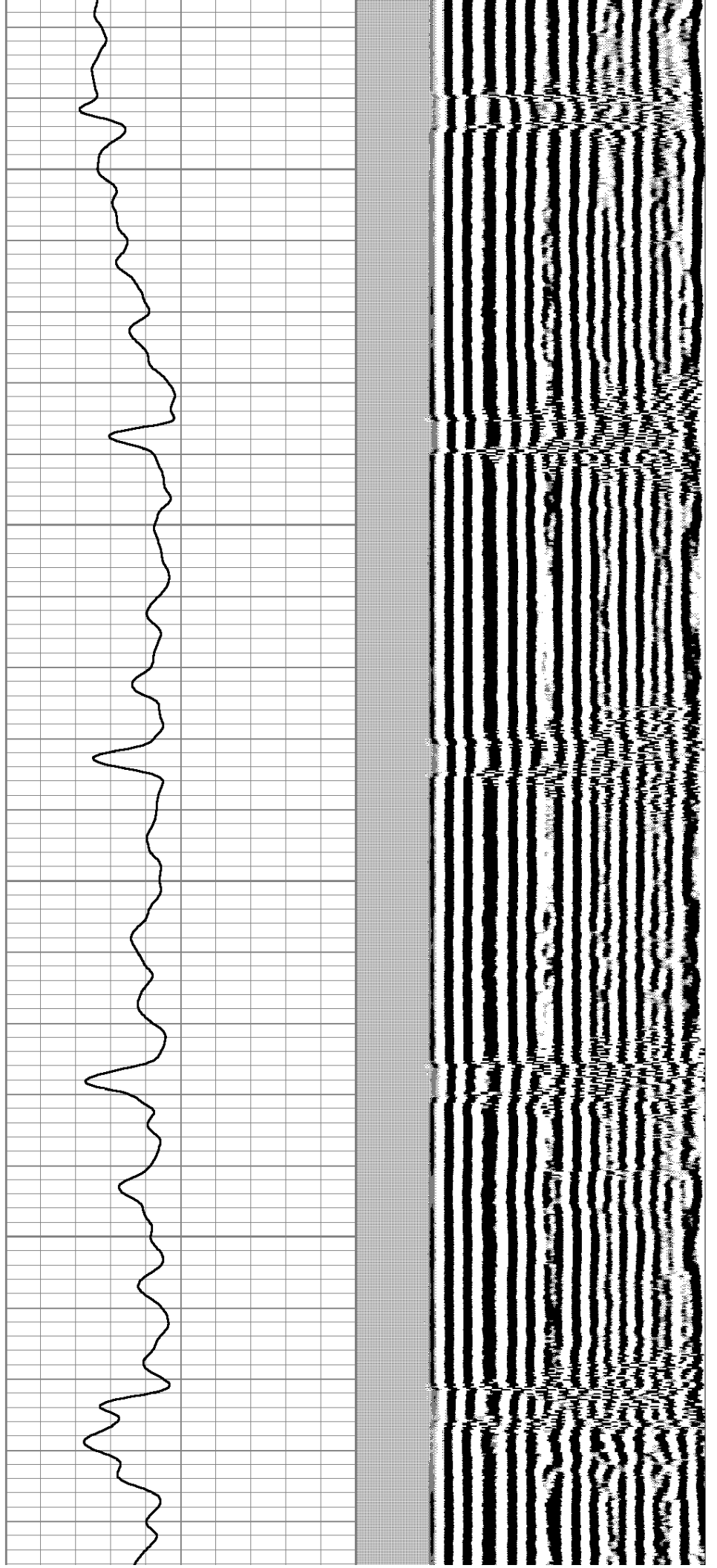


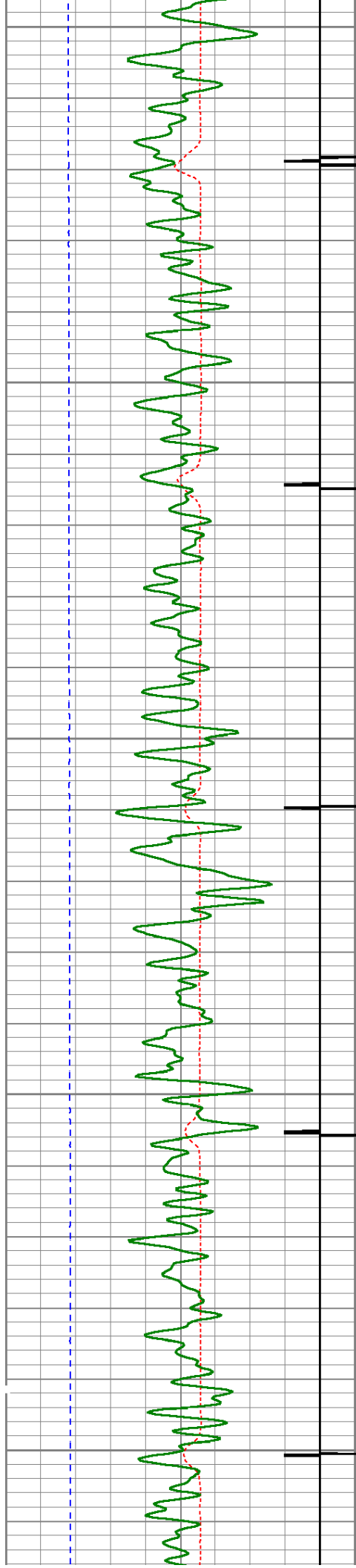
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4700

4750





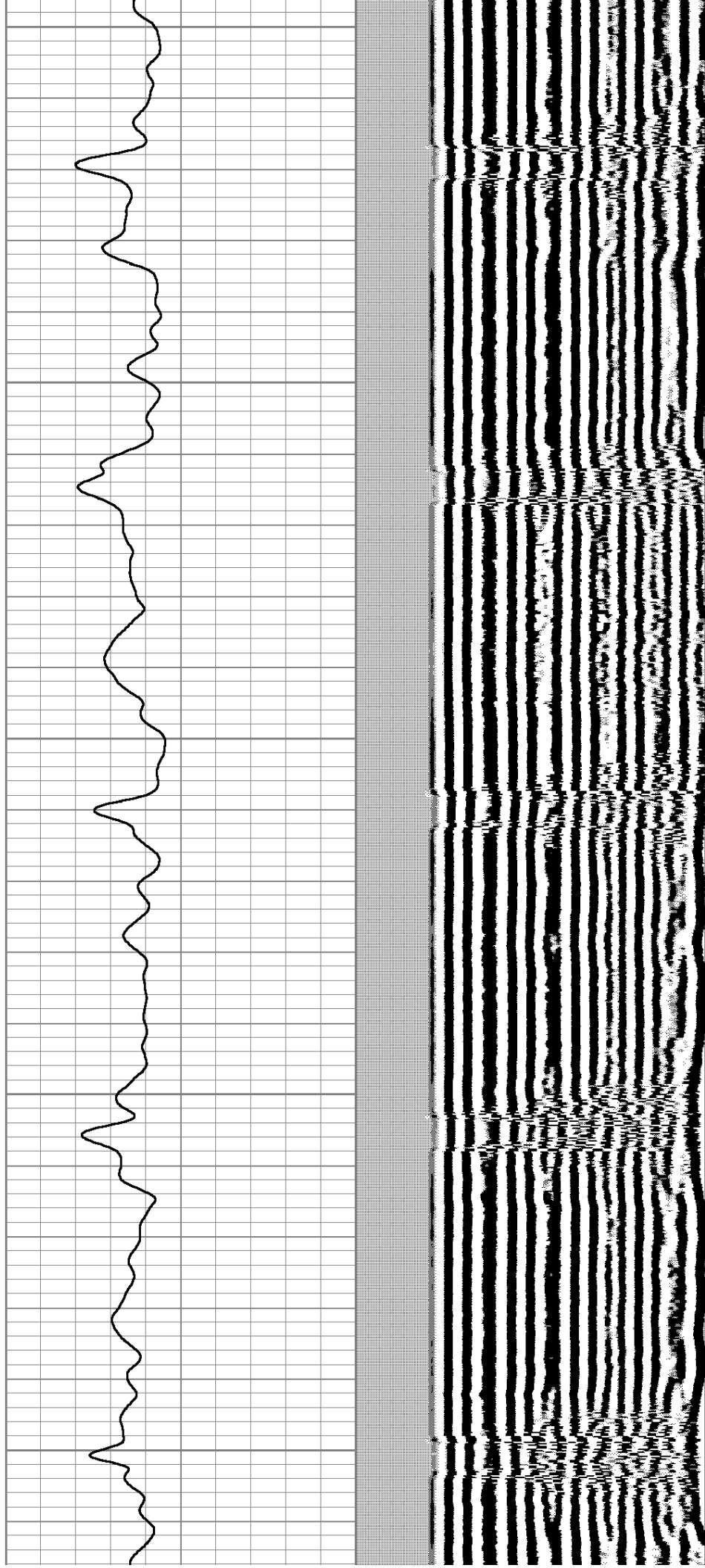
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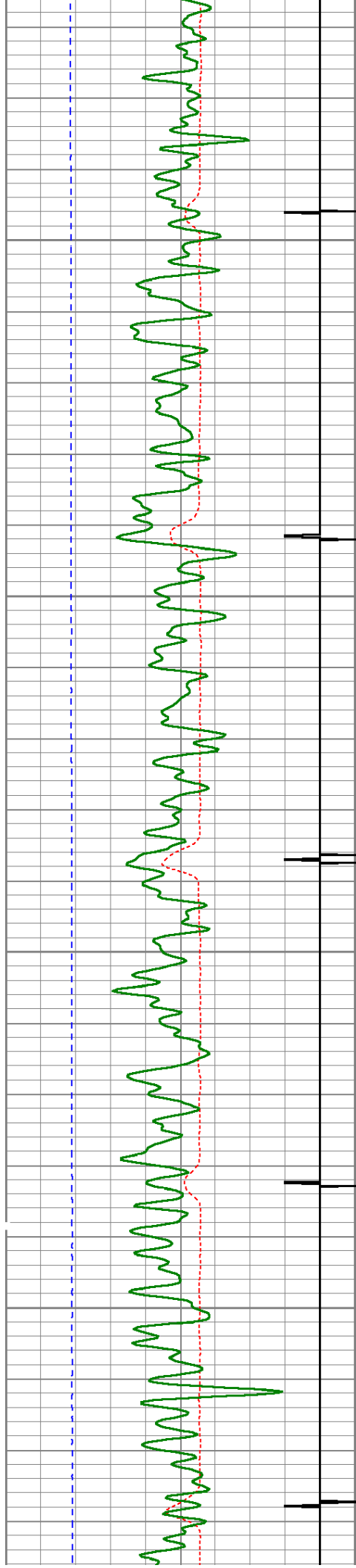
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4900

4950

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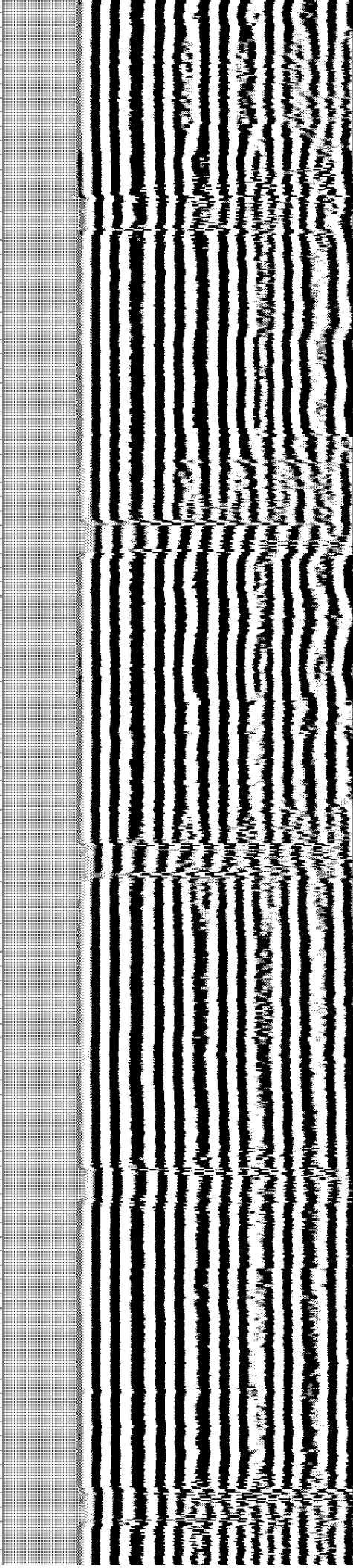
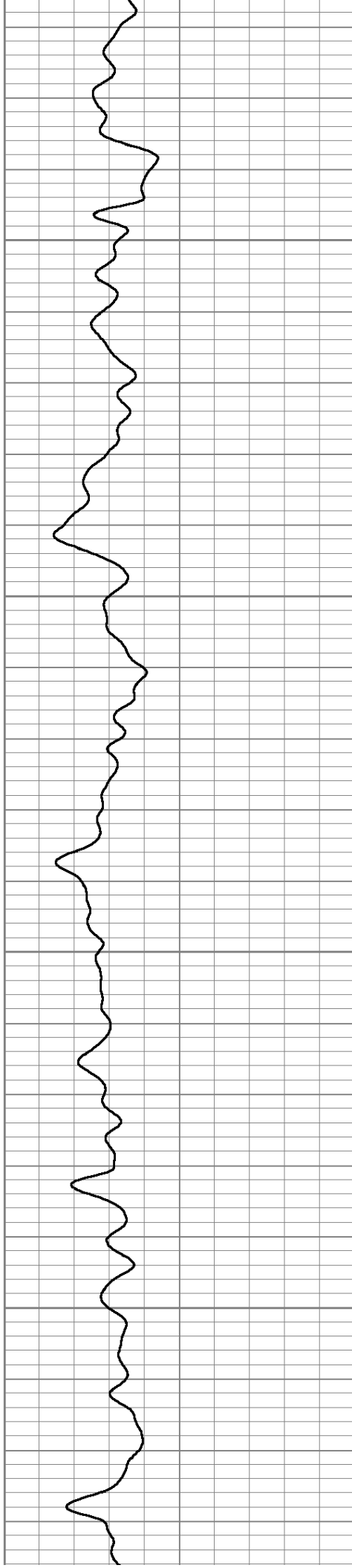


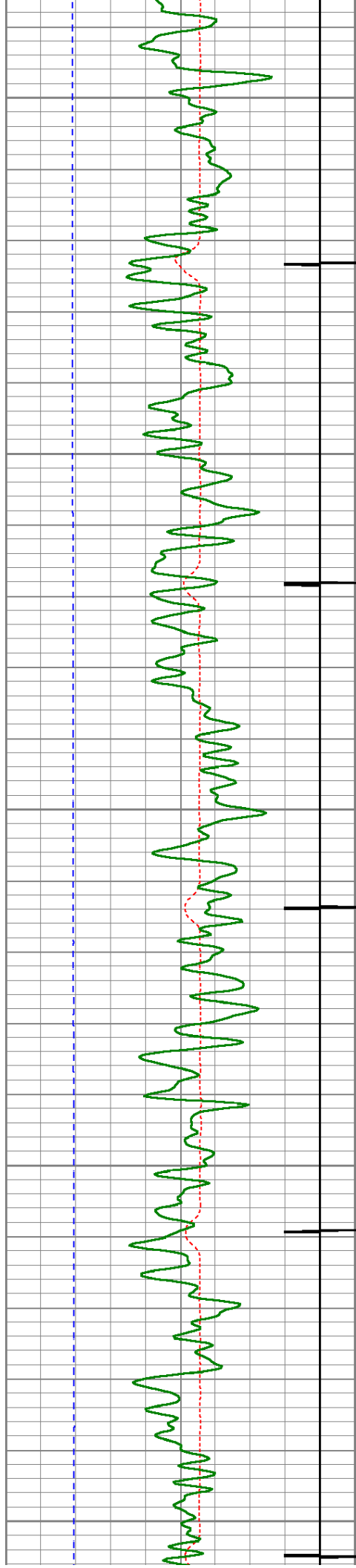
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5200





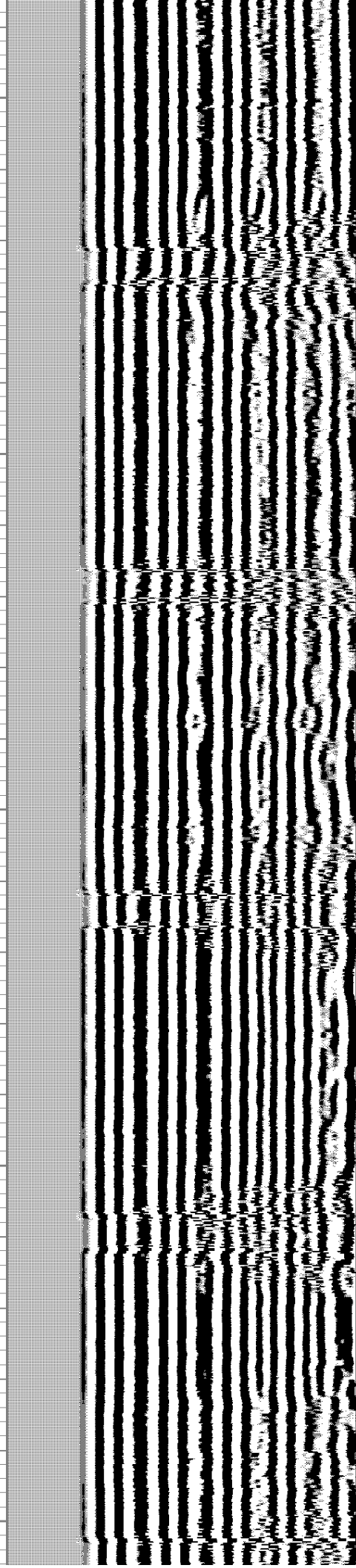
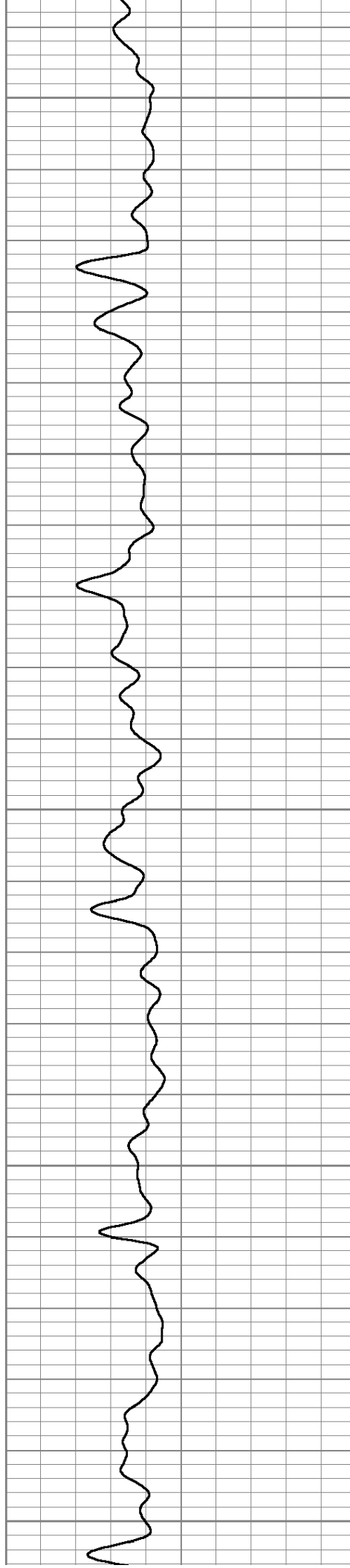
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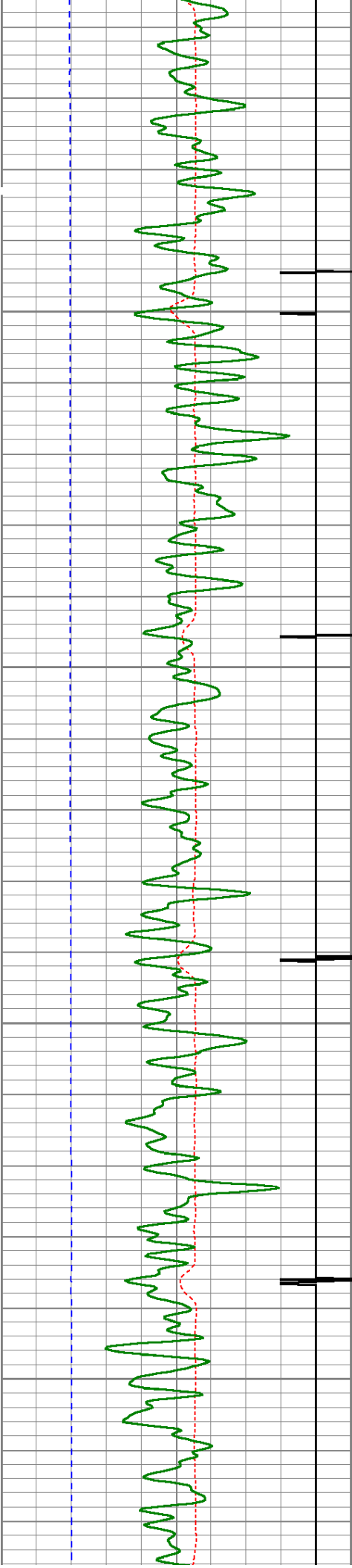
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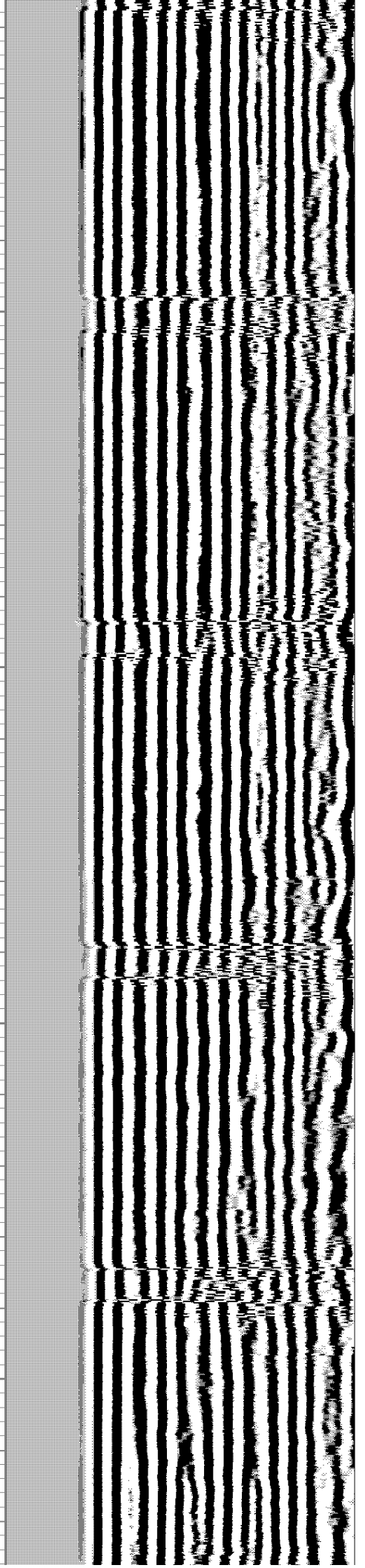
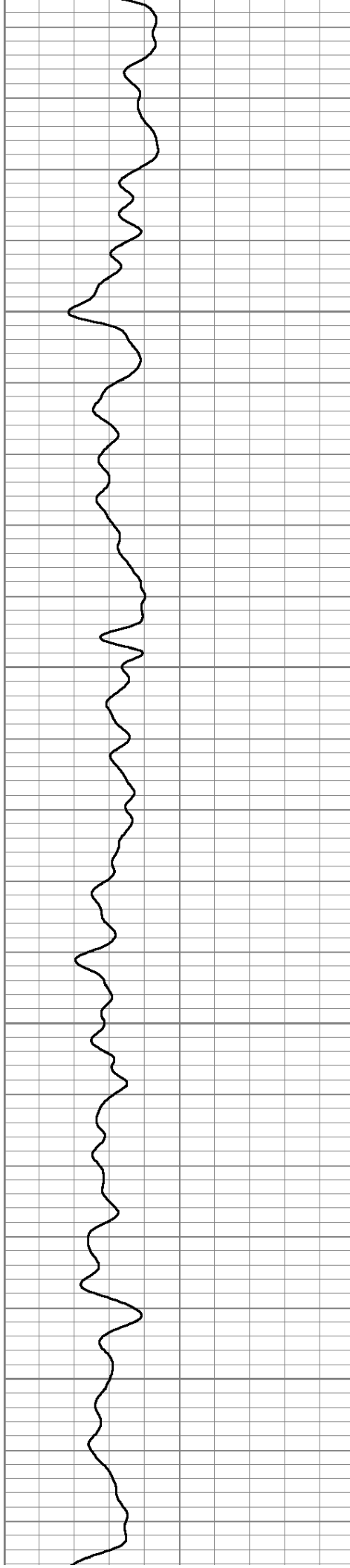


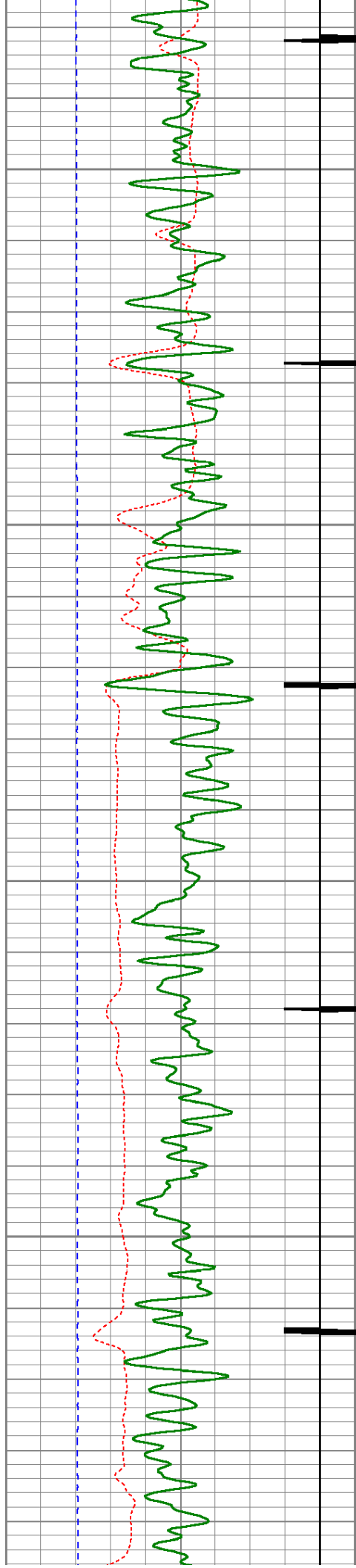
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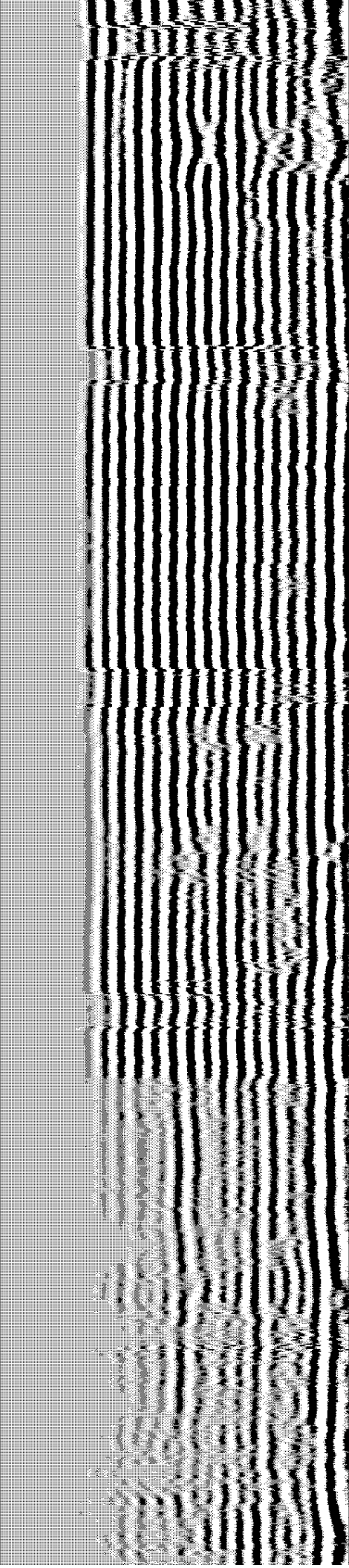
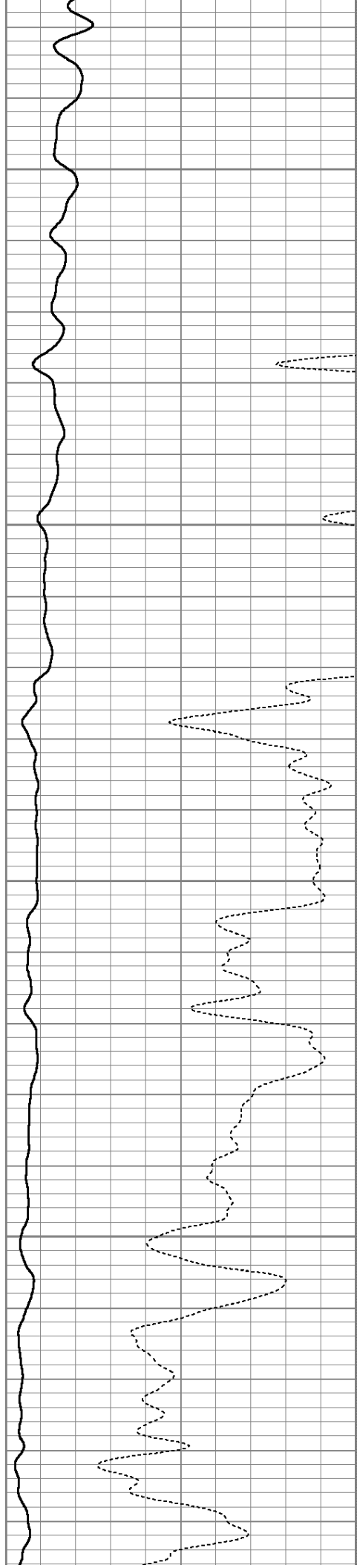


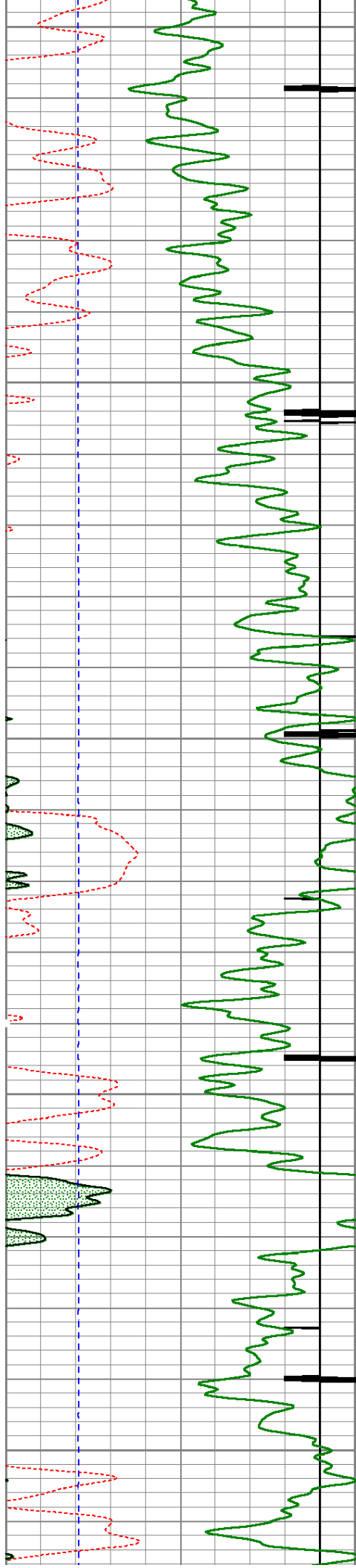
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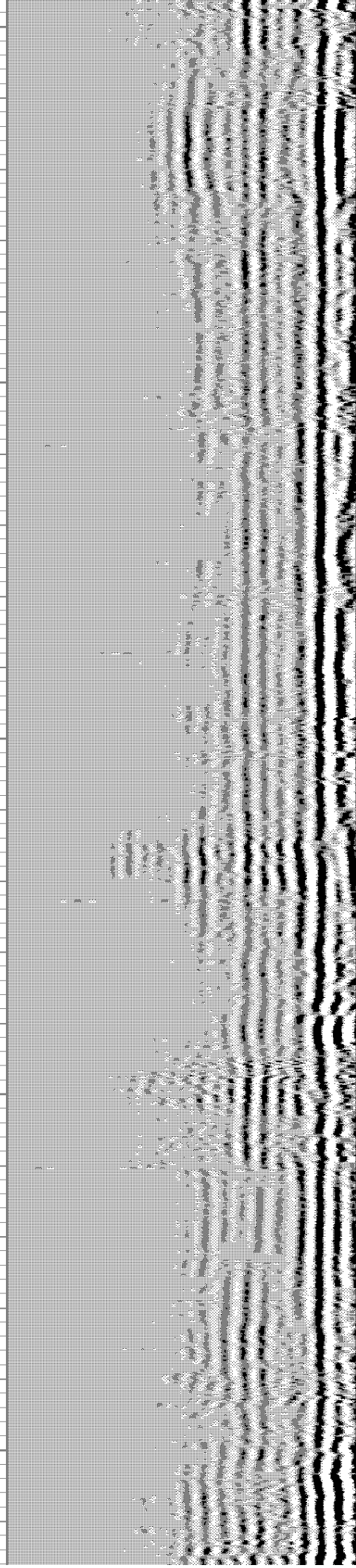
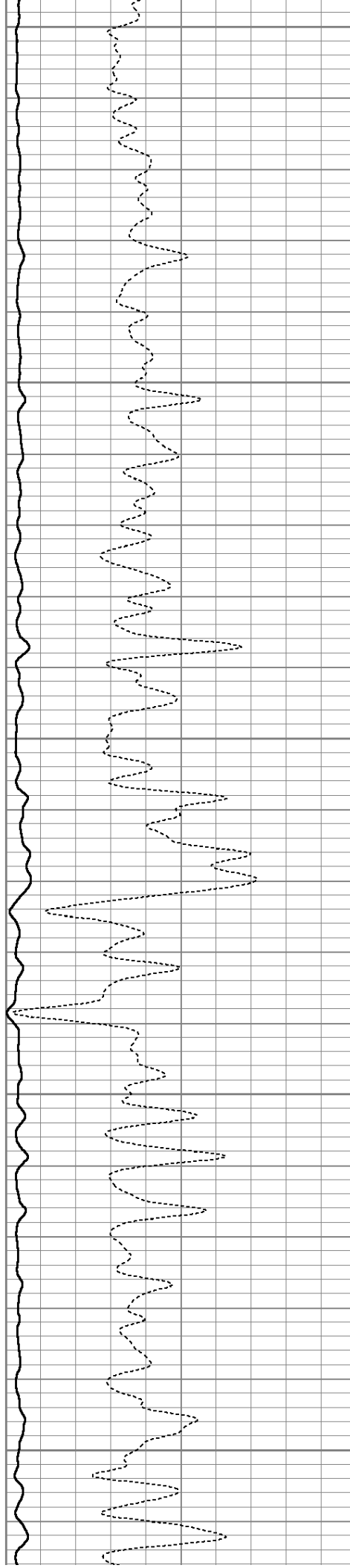
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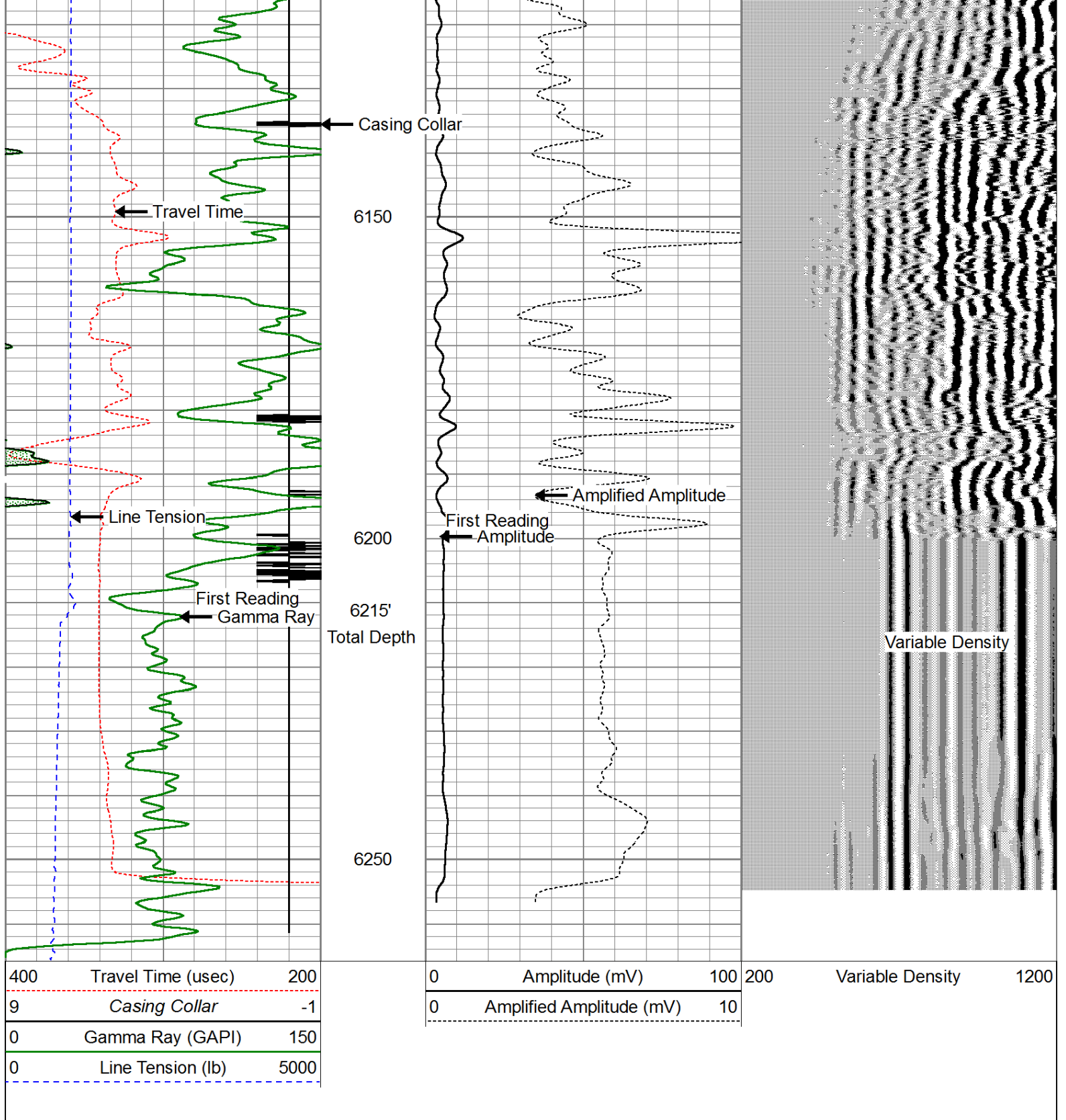
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6100





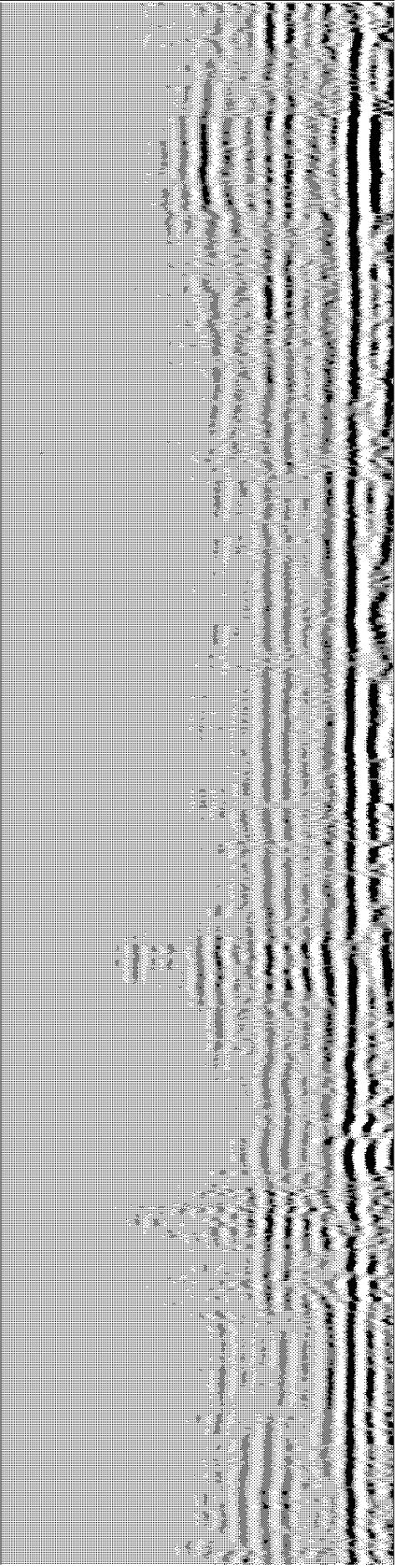
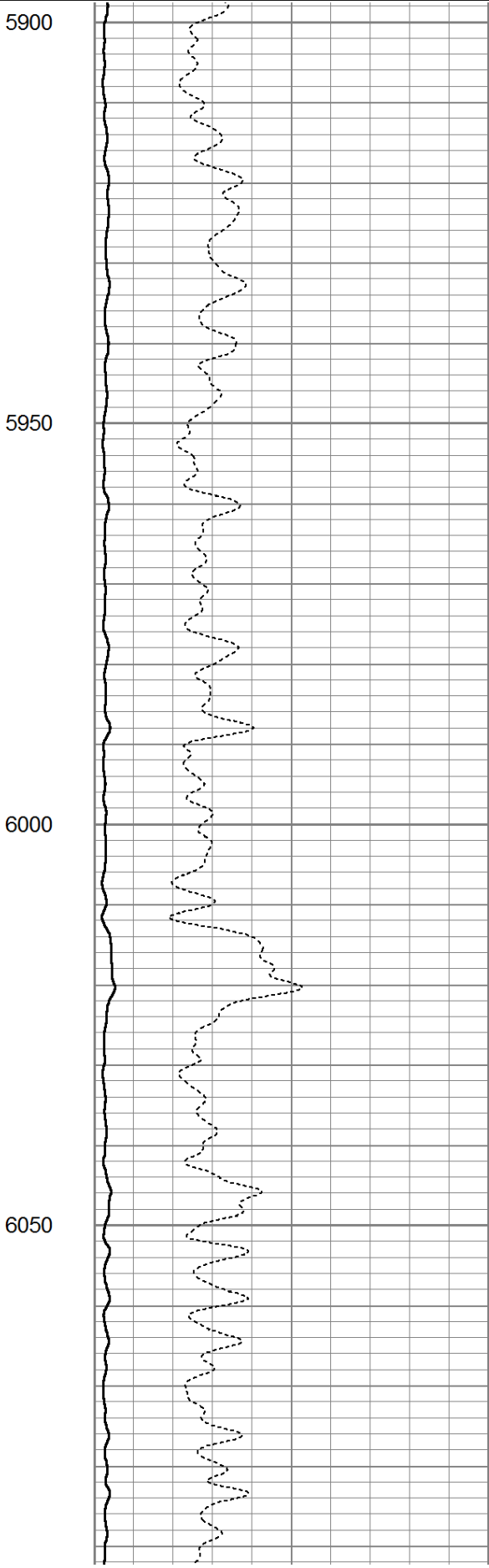
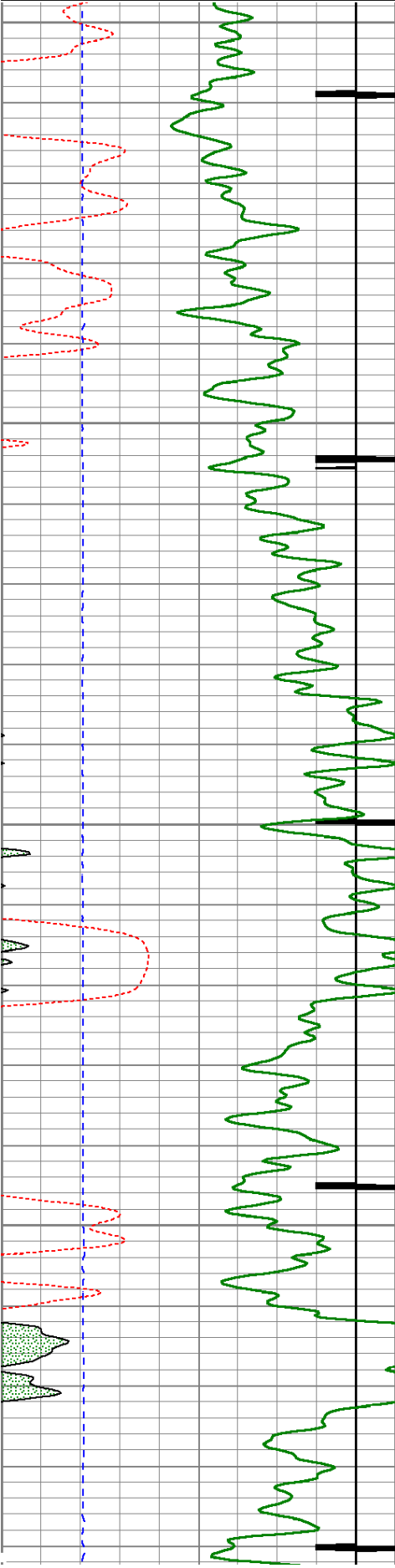
Repeat Pass (0 PSI)

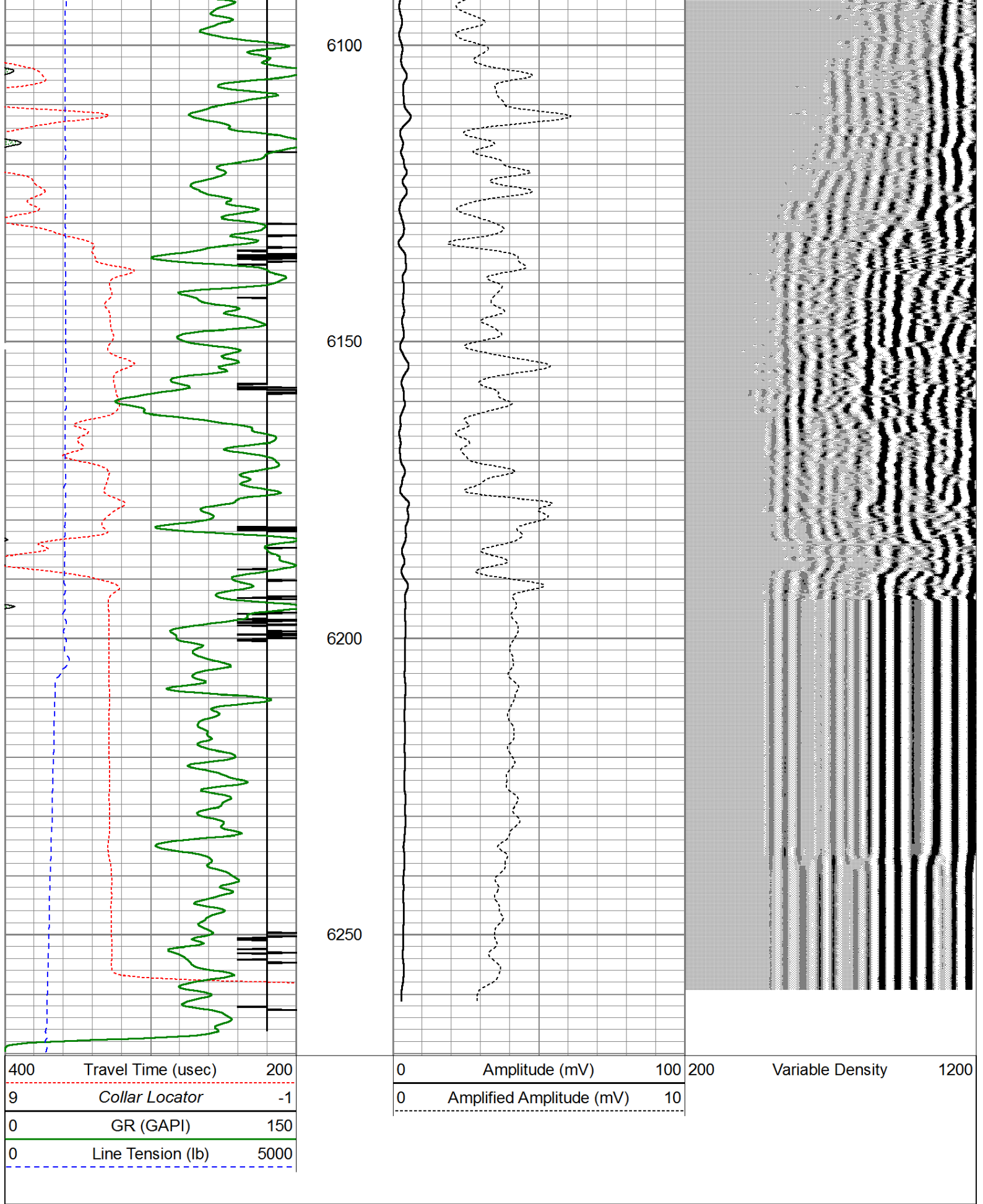
Database File: bonanza_creek_state_pronghorn_f_j_16hnb_rcbl.db
 Dataset Pathname: pass2
 Presentation Format: cblprobe
 Dataset Creation: Sat Mar 02 08:38:34 2013 by Log SCH 120126
 Charted by: Depth in Feet scaled 1:240

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)
			Titan Cable_head	1.00	1.44	10.00
			Probe275 2.75" Centralizer	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