



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

Company		Bonanza Creek Energy Operating	
Well		State North Platte P-T-26HNC	
Field		Wattenberg	
County		Weld	
State		Colorado	
Company		Bonanza Creek Energy Operating Company LLC	
Well		State North Platte P-T-26HNC	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API # : 05-123-3826700	
Permanent Datum		SEC 26 TWP 5N RGE 63W	
Log Measured From		Ground Level Elevation 4561'	
Drilling Measured From		Kelly Bushing 15'	
		Kelly Bushing	
		Elevation	
		K.B. 4576'	
		D.F. 4575'	
		G.L. 4561'	
Date		16-Dec-2013	
Run Number		One	
Depth Driller		10941'	
Depth Logger		6590'	
Bottom Logged Interval		6590'	
Top Log Interval		Surface	
Open Hole Size		-	
Type Fluid		Water	
Density / Viscosity		-	
Max. Recorded Temp.		-	
Estimated Cement Top		260'	
Time Well Ready		16:00	
Time Logger on Bottom		17:00	
Equipment Number		13034	
Location		Brighton, CO	
Recorded By		J.Staley	
Witnessed By		K.Dodge	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size	
Surface String		9 5/8"	
Prot. String		7"	
Production String		4.5"	
Liner		4.5"	
Short Joint			

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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

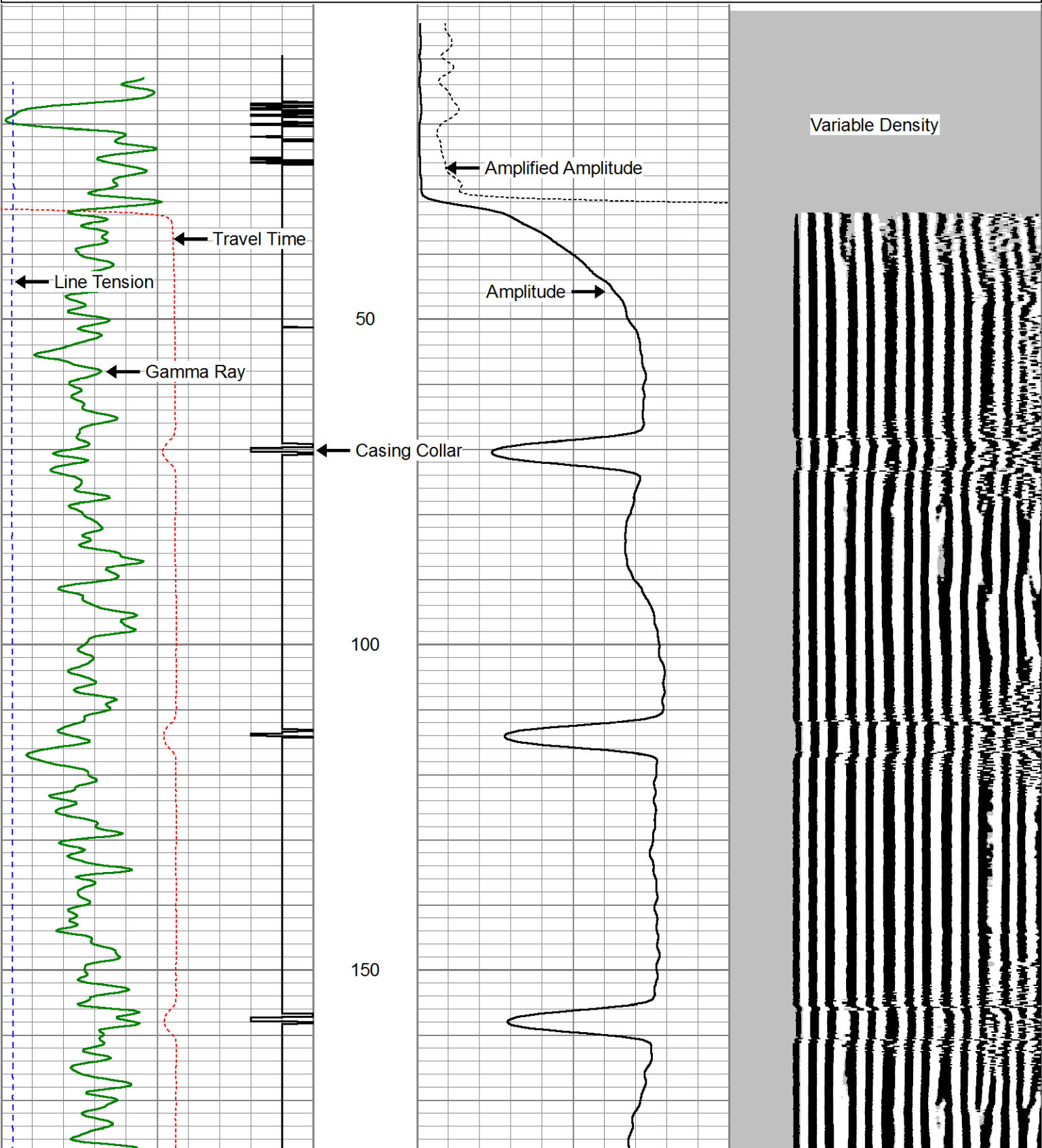
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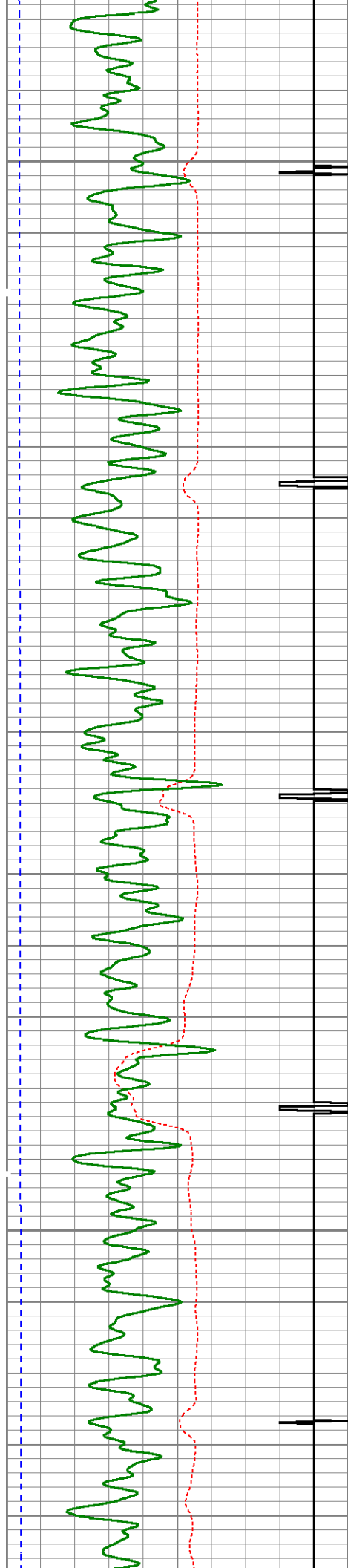
(303)659-4609



Main Pass(0 PSI)

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						





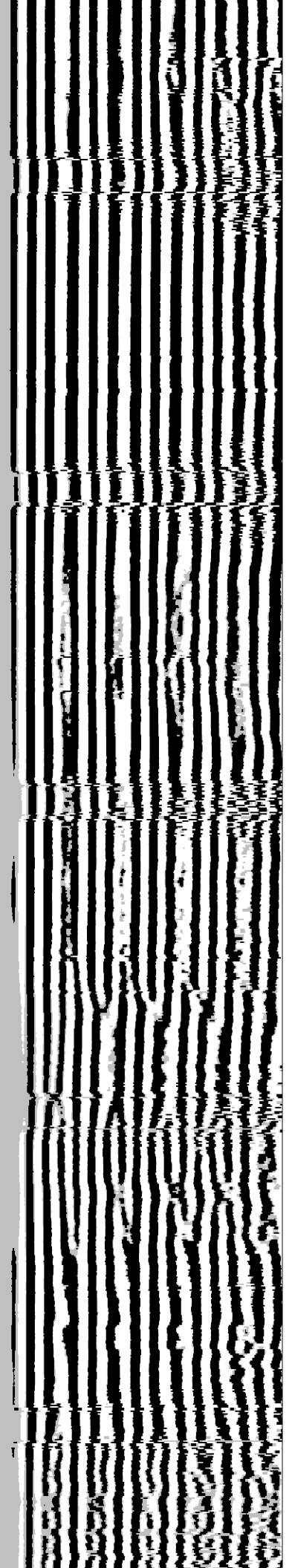
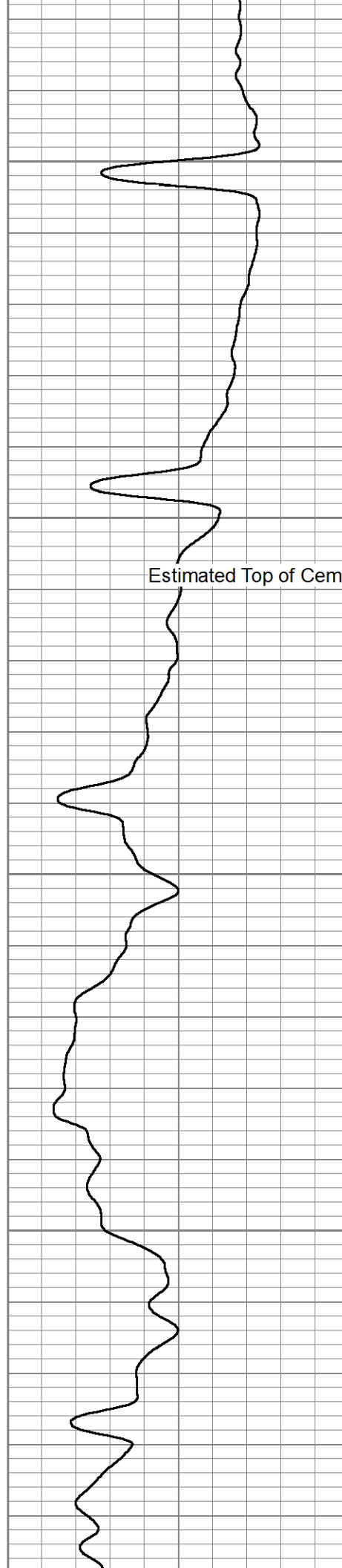
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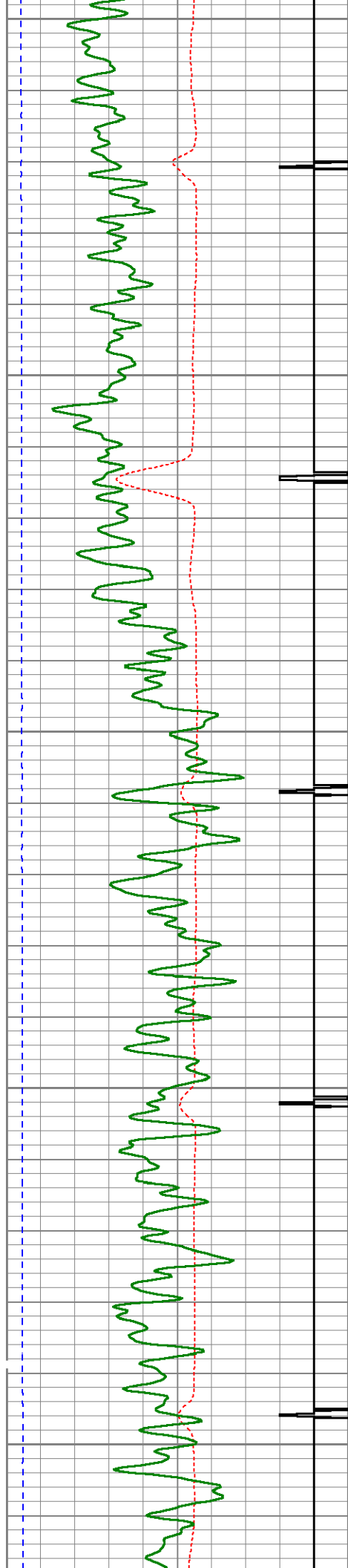
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300

350

Estimated Top of Cement





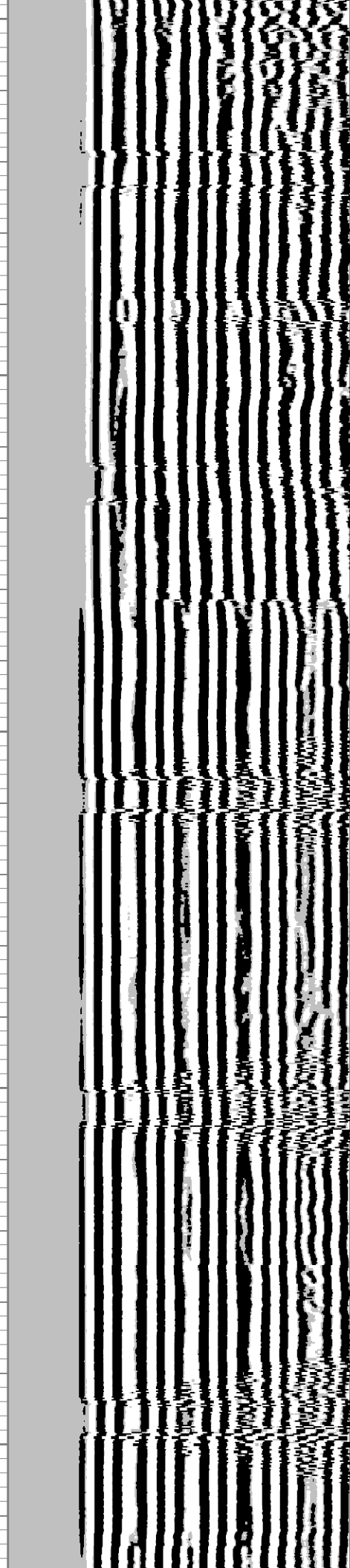
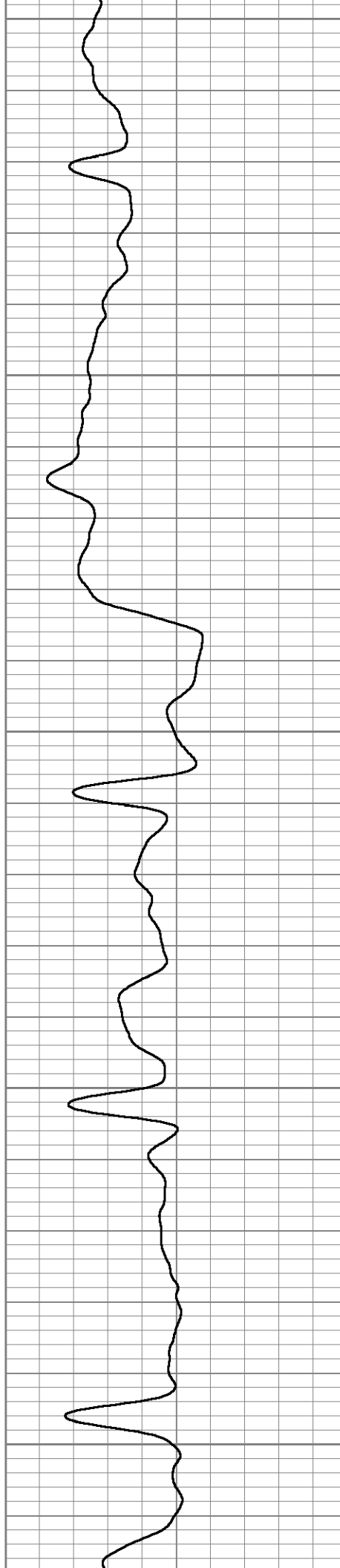
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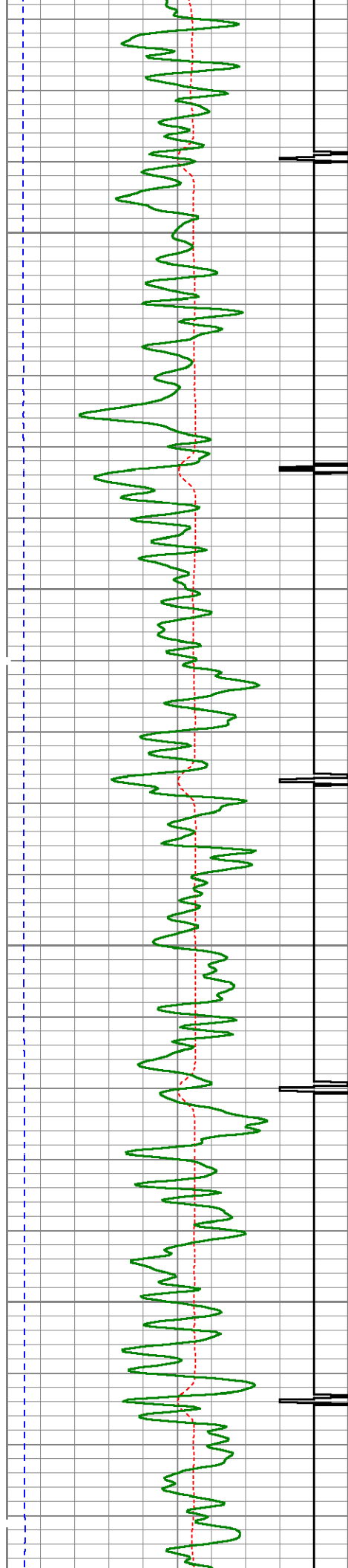
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600



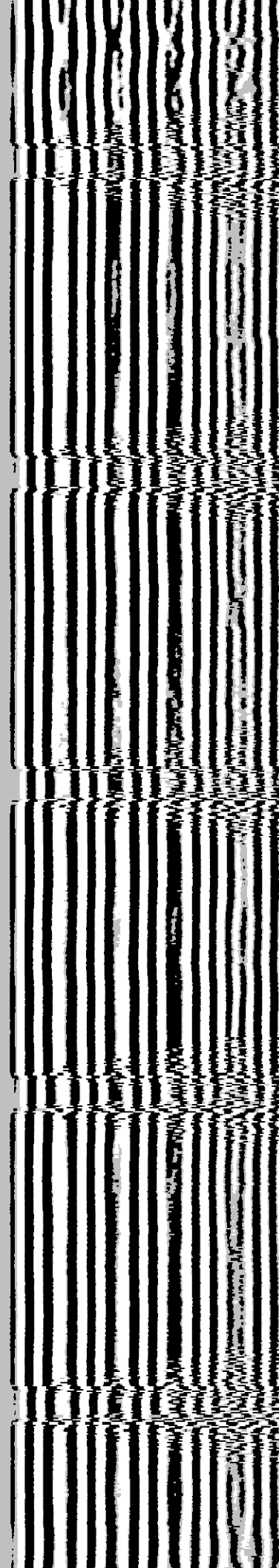
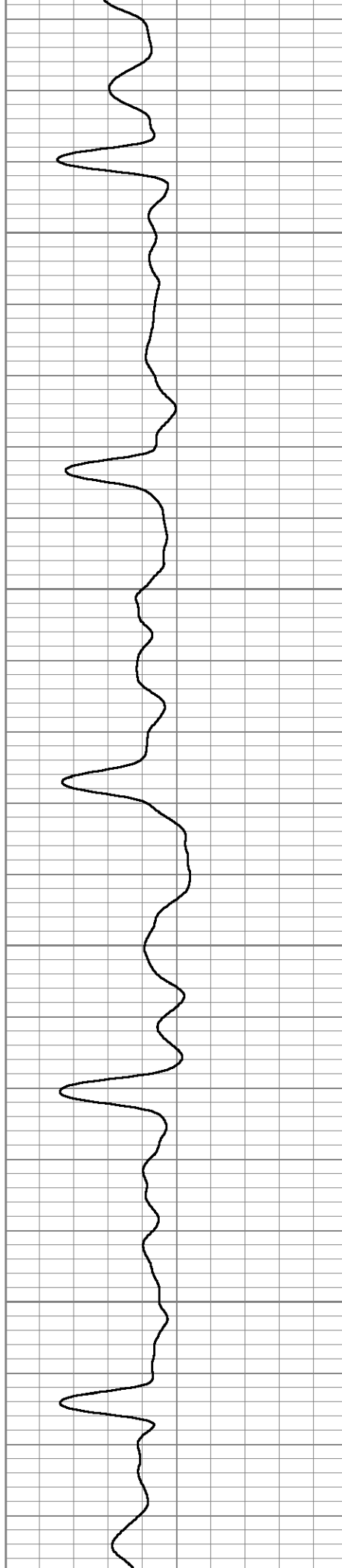


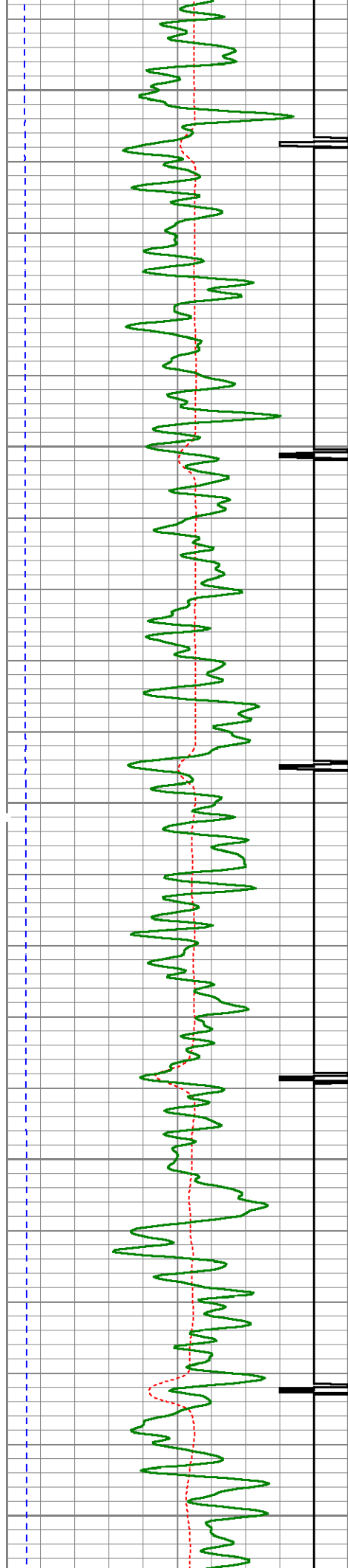
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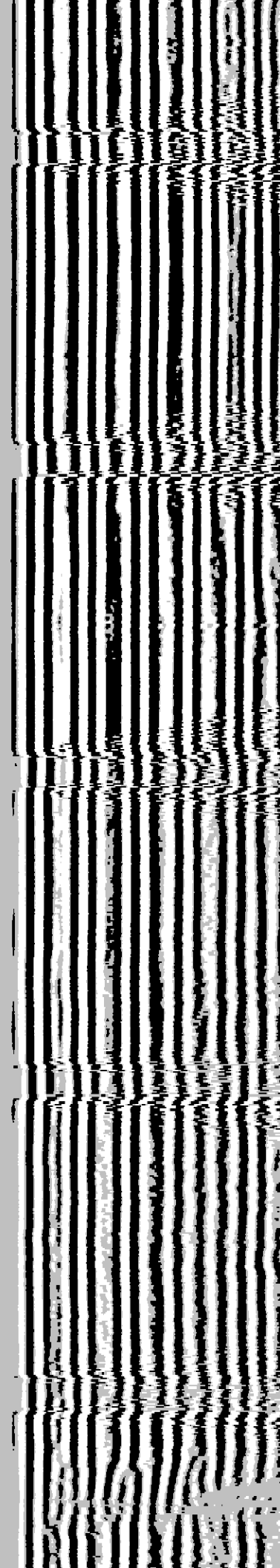
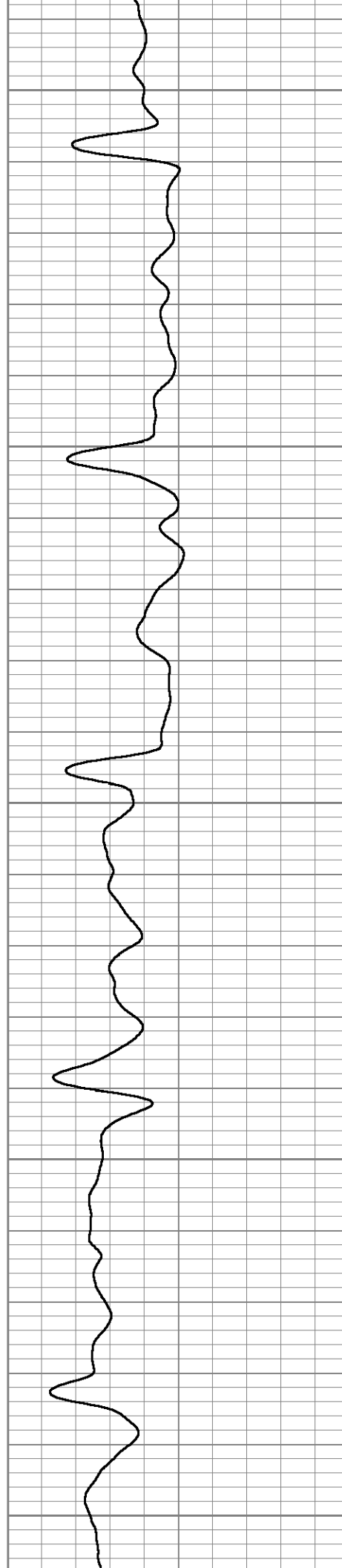
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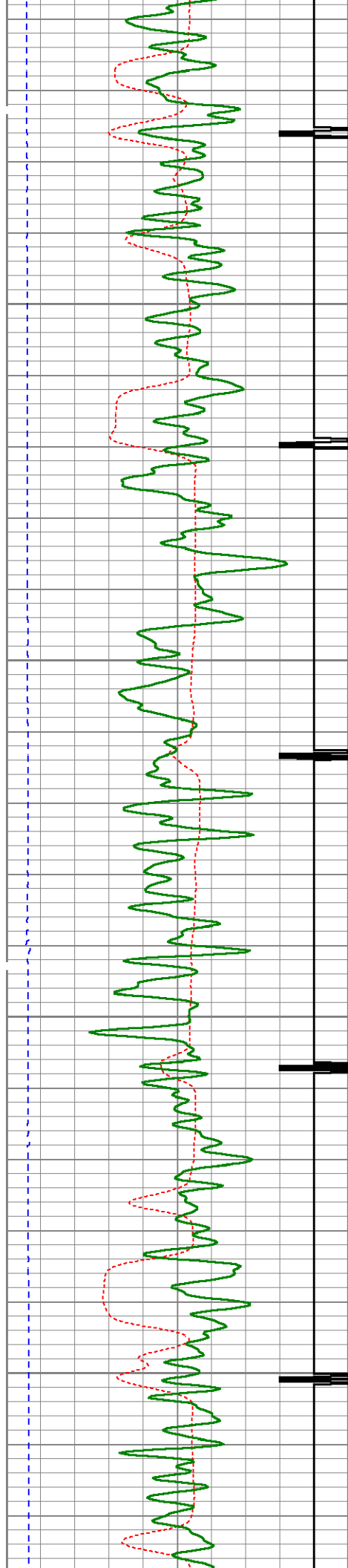
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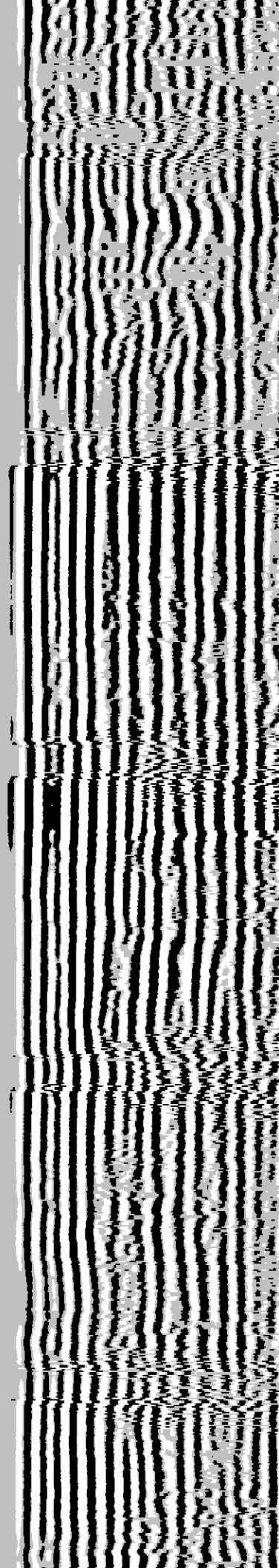
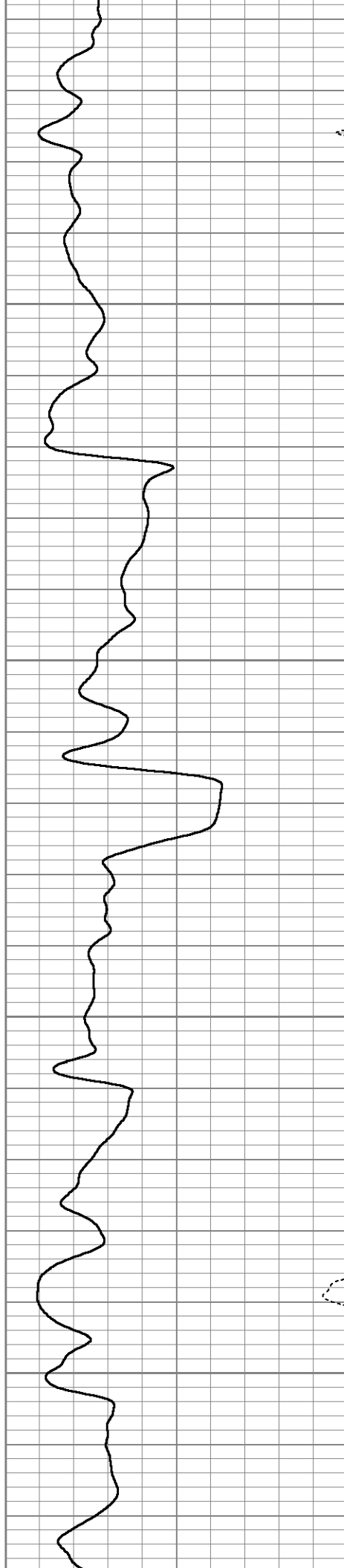


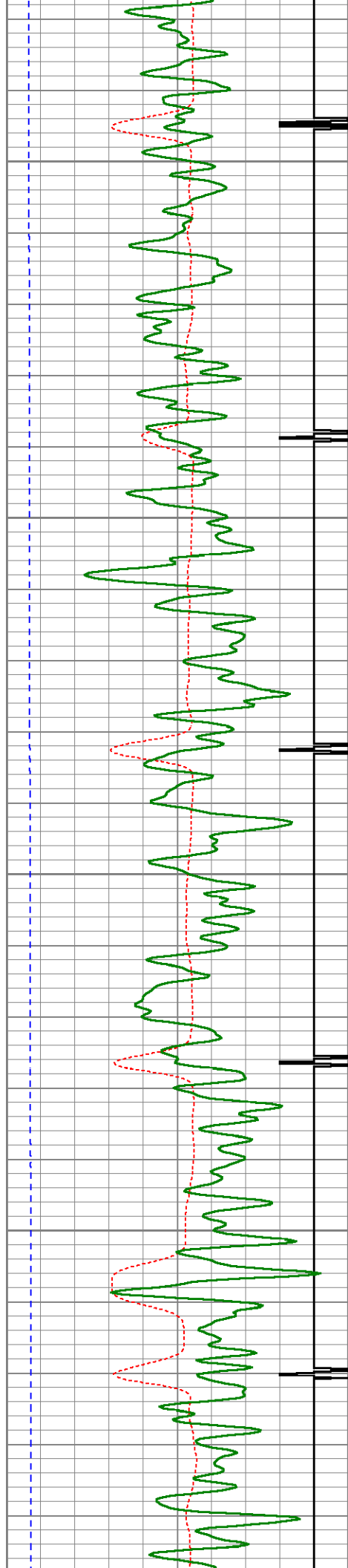
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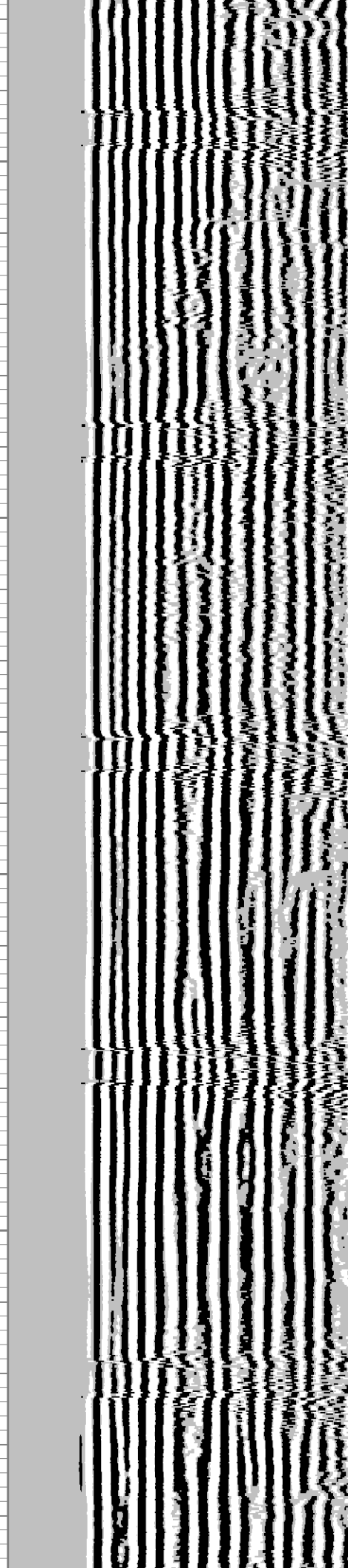
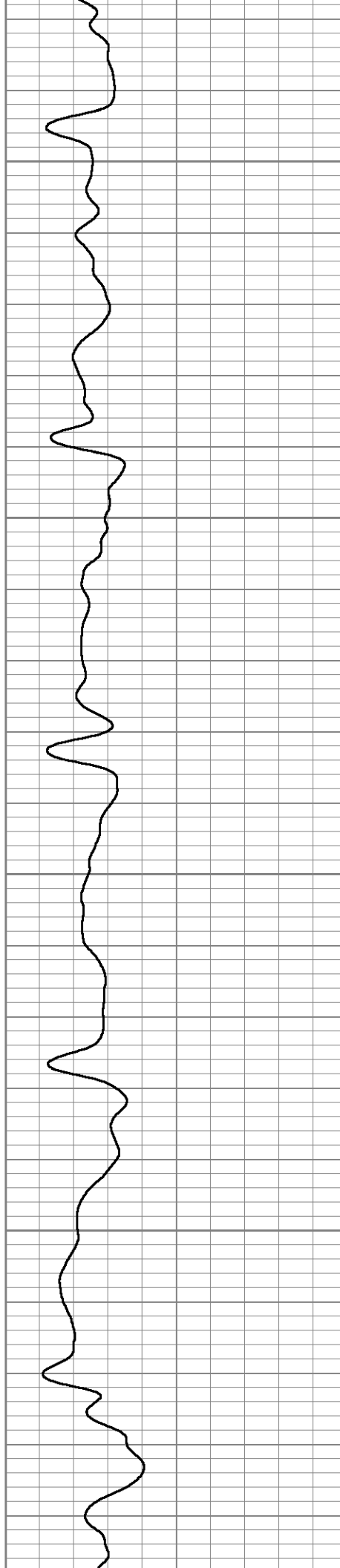


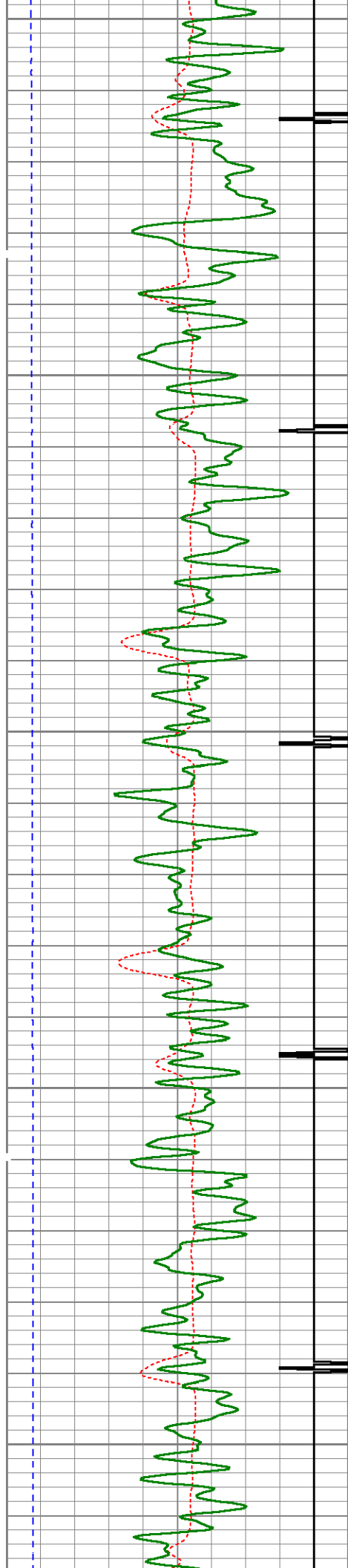
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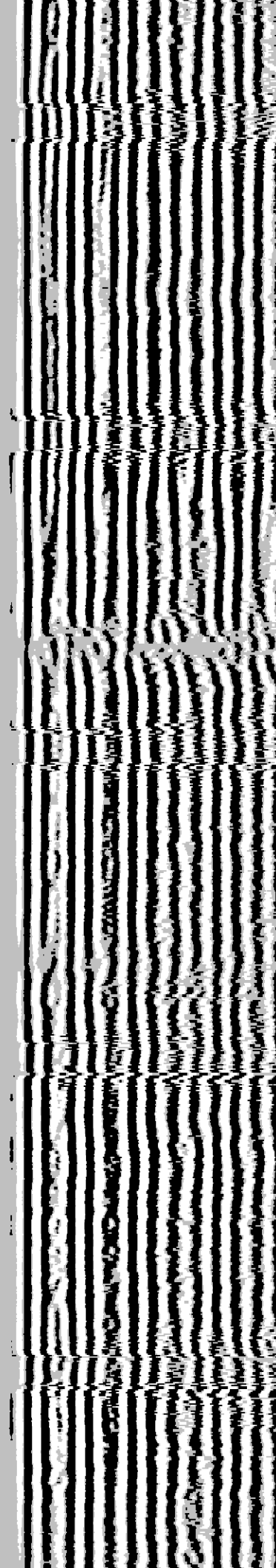
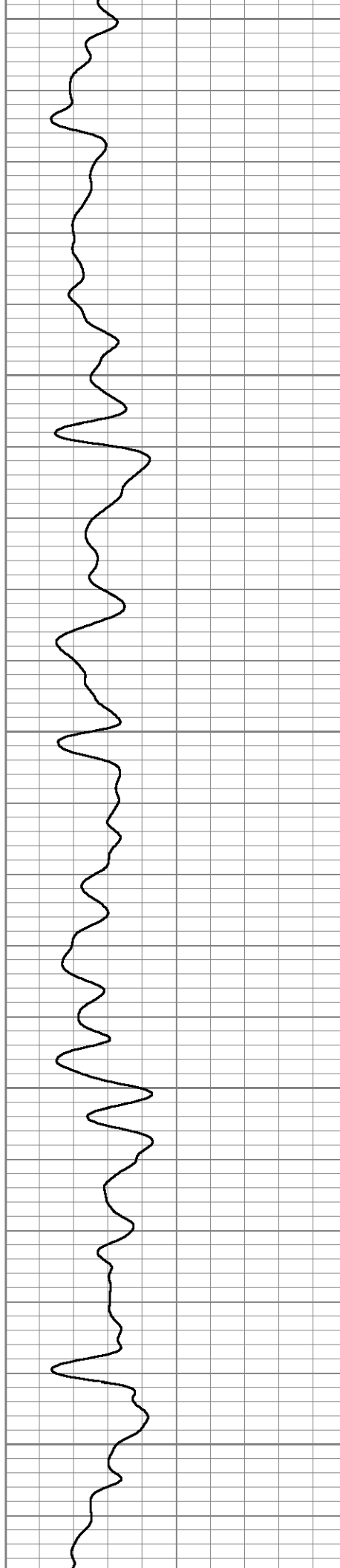
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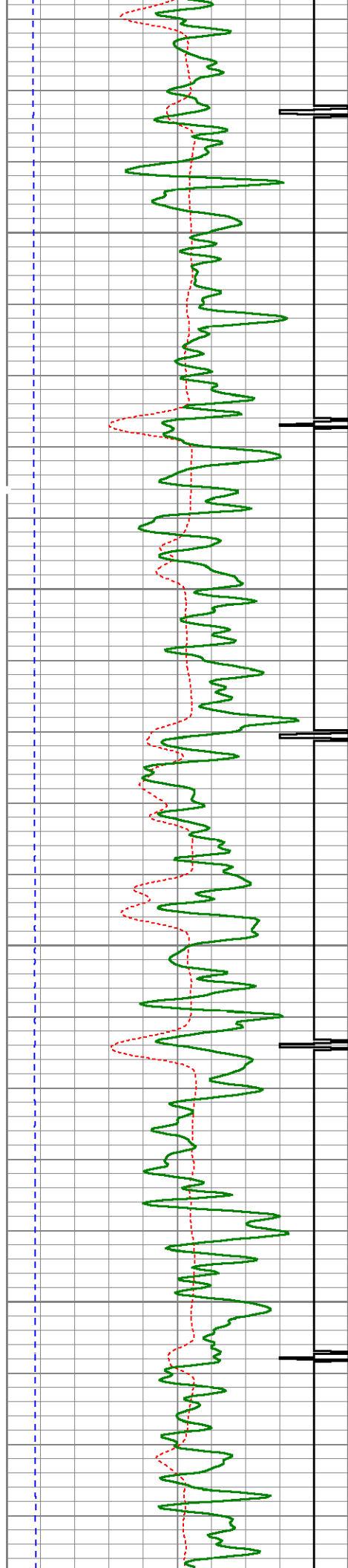
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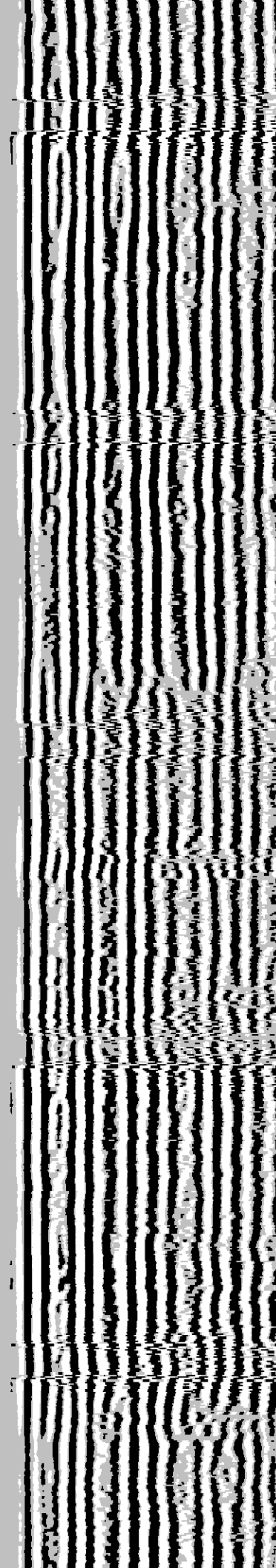
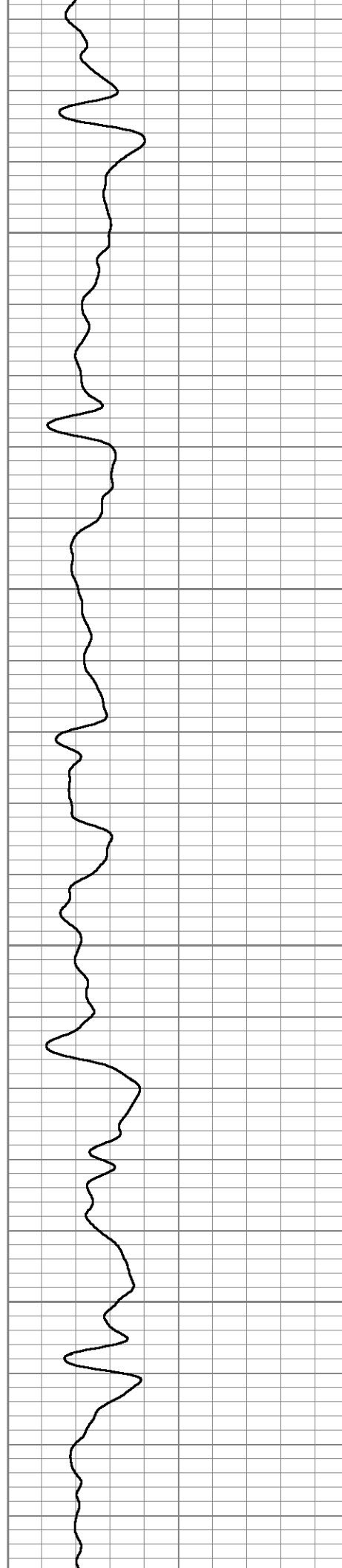


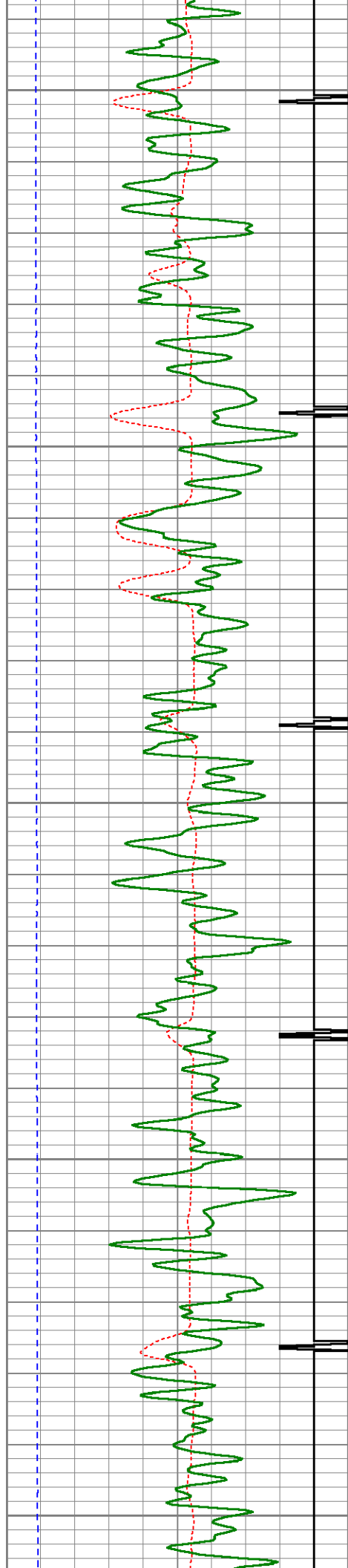
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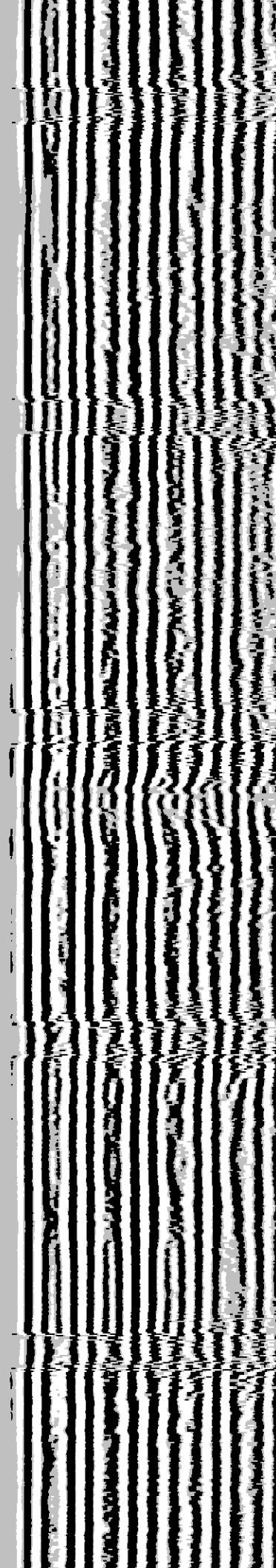
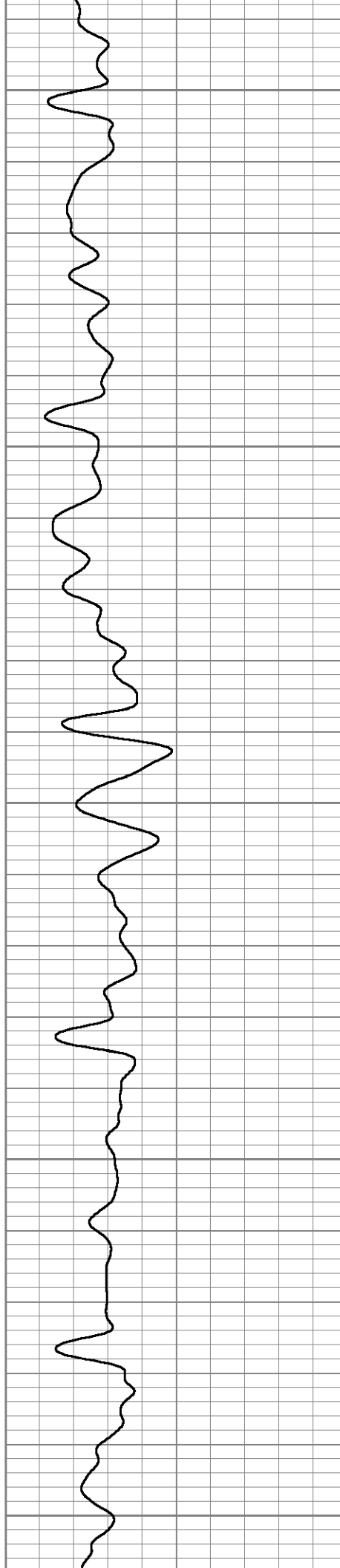
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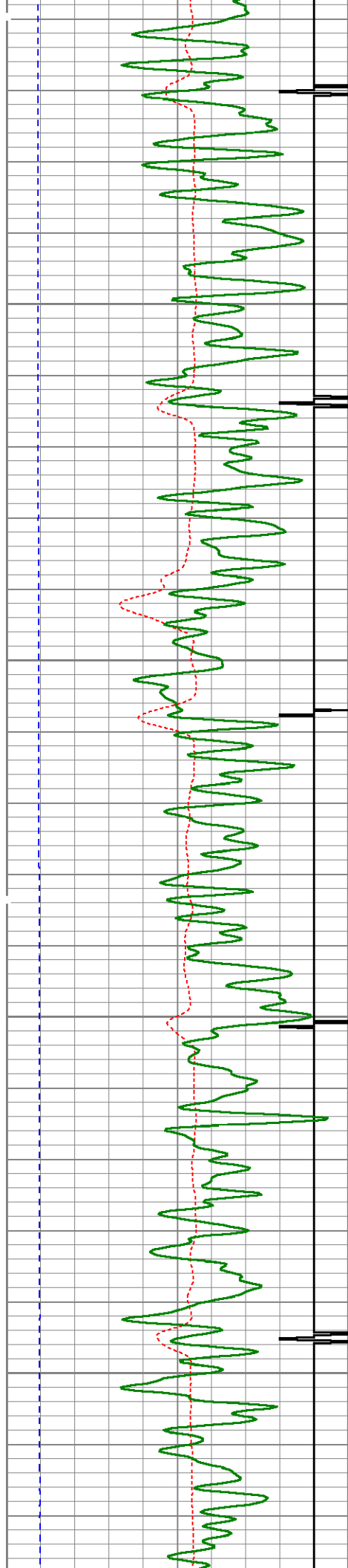
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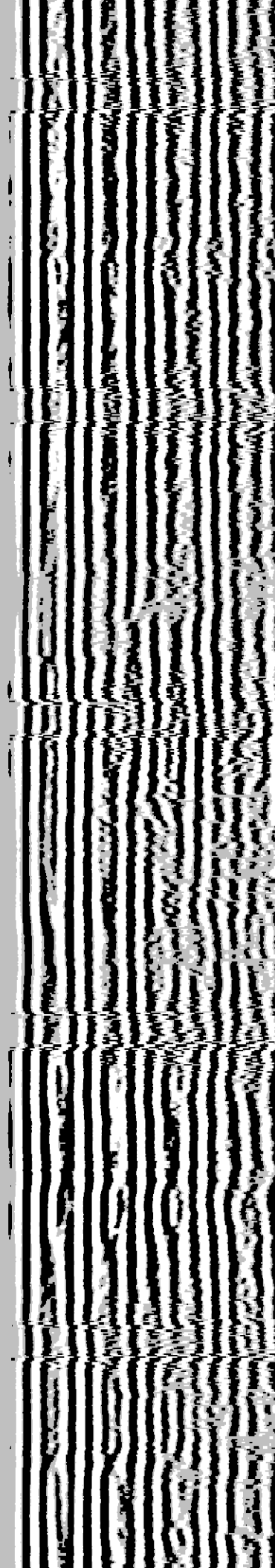
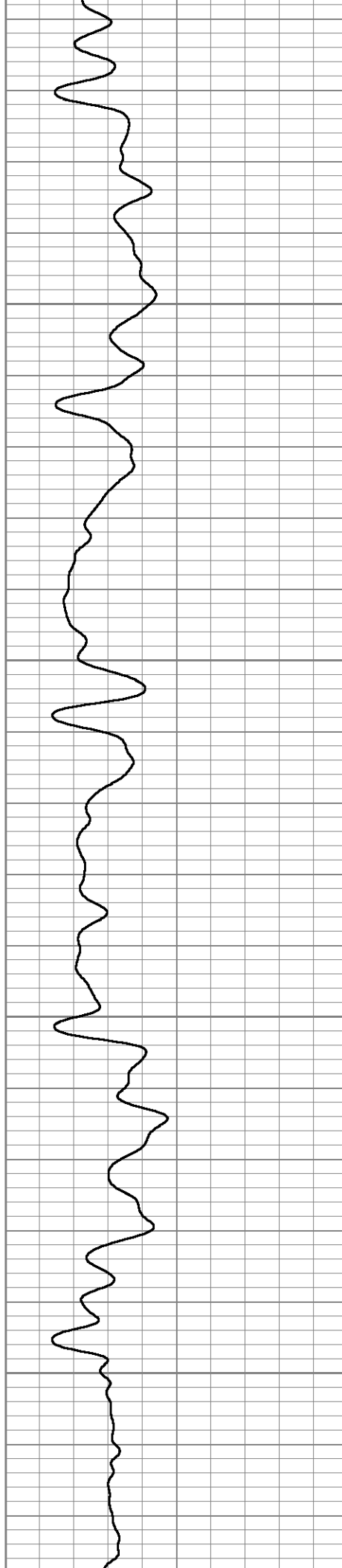


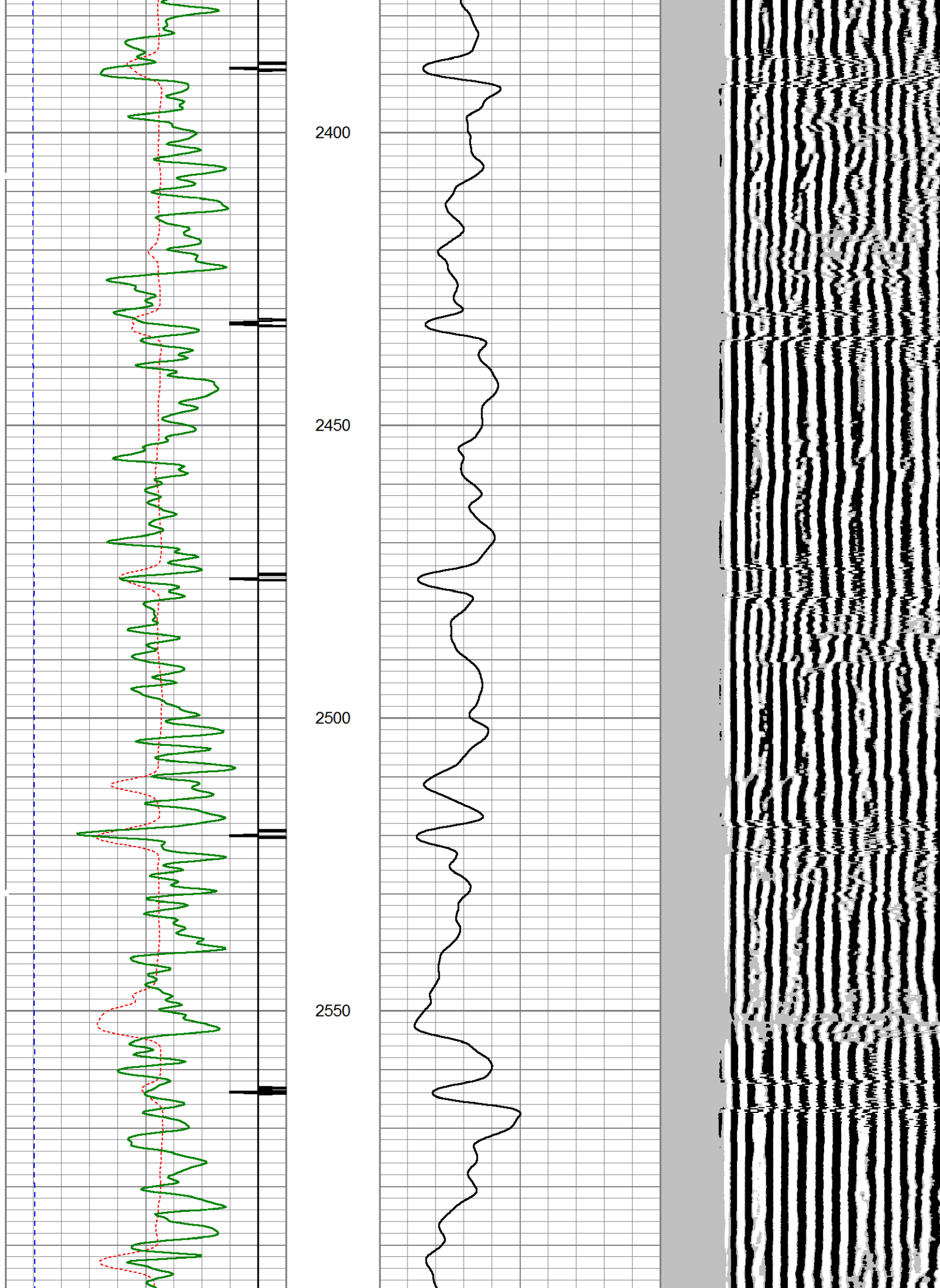
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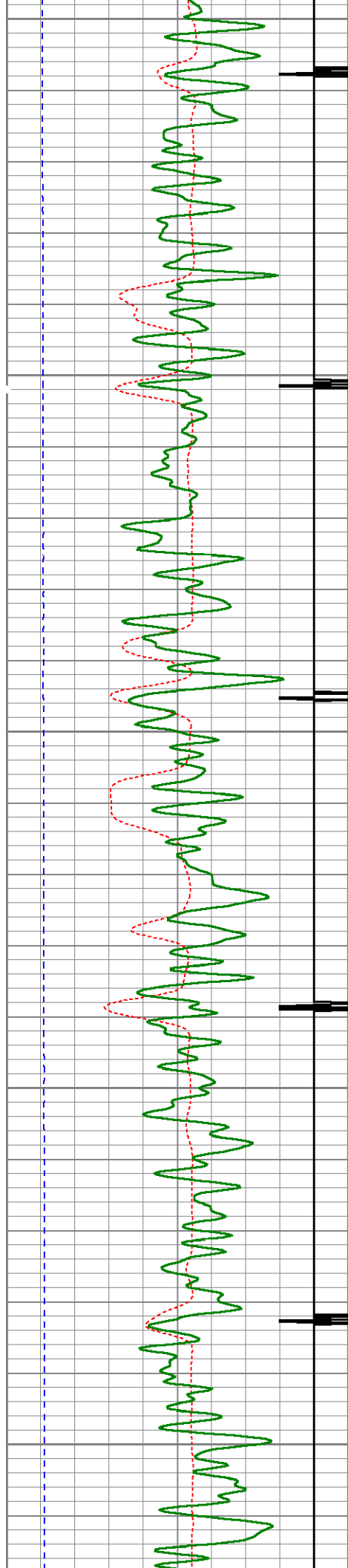
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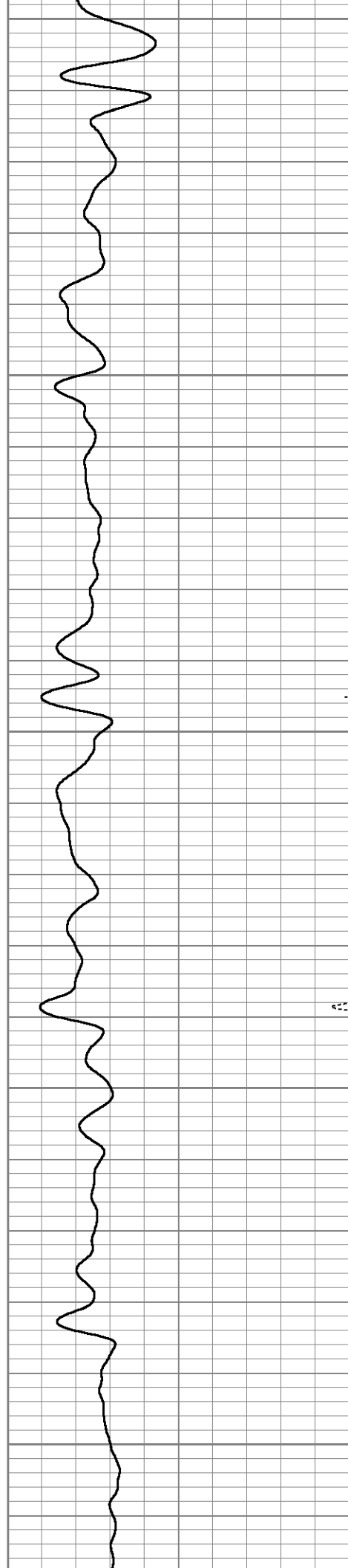
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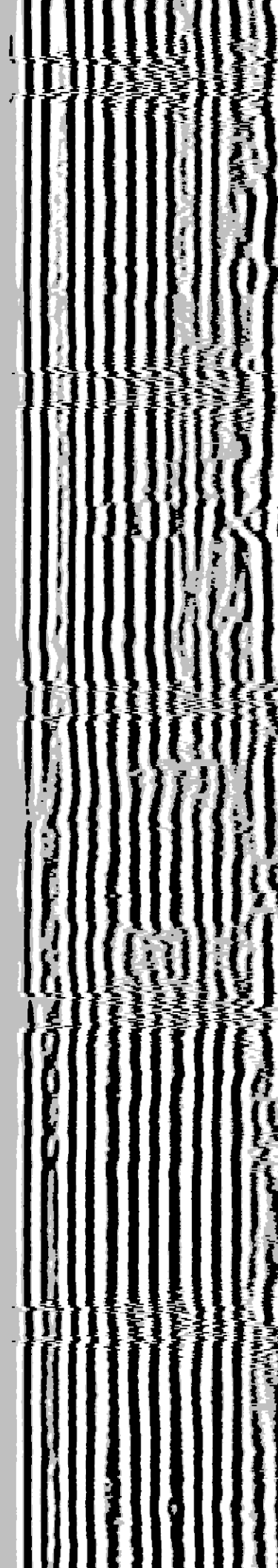
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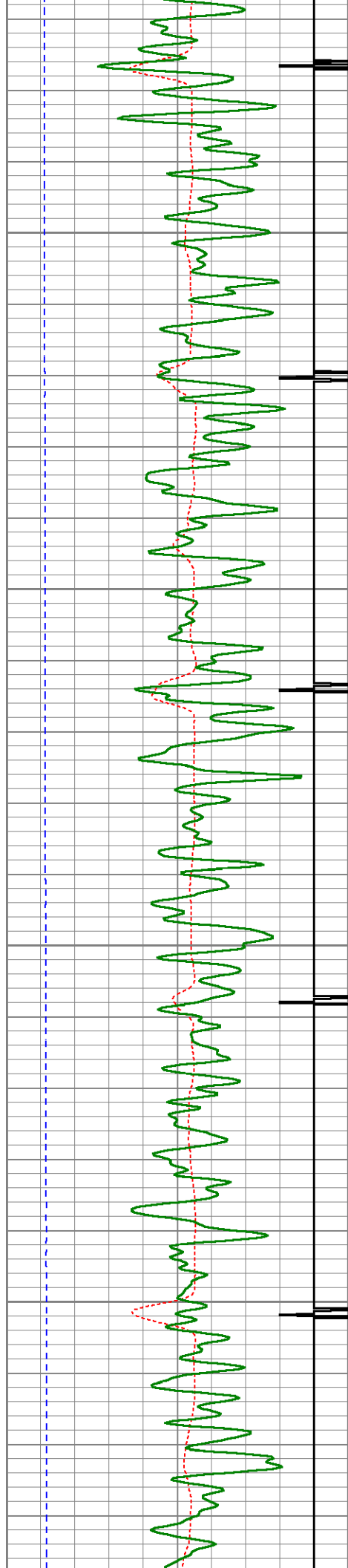
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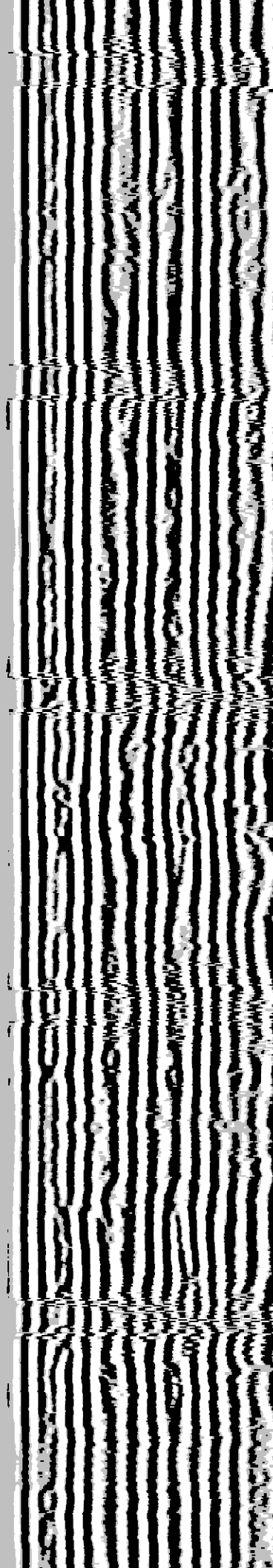
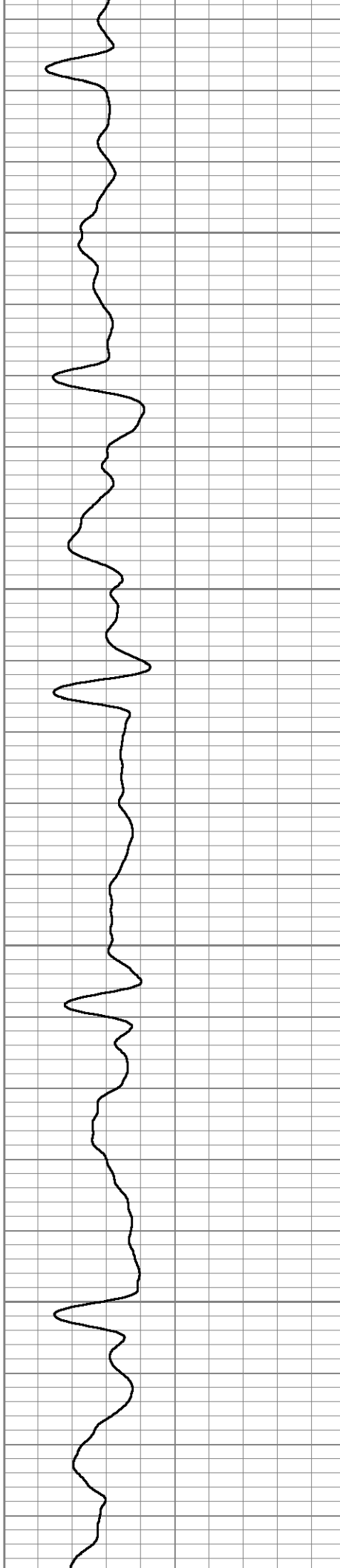


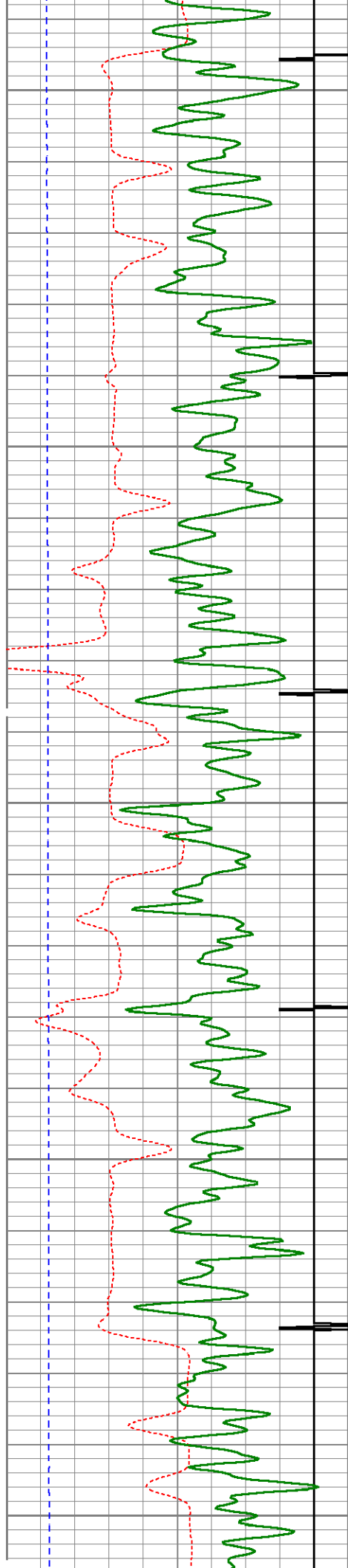
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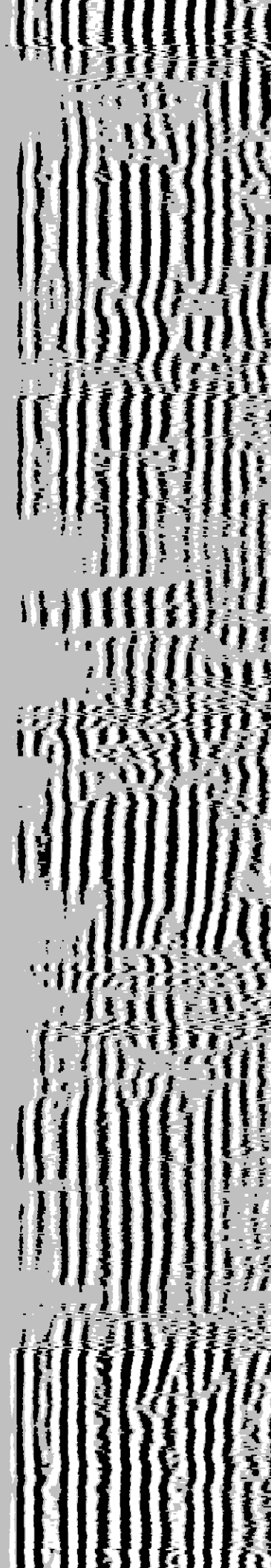
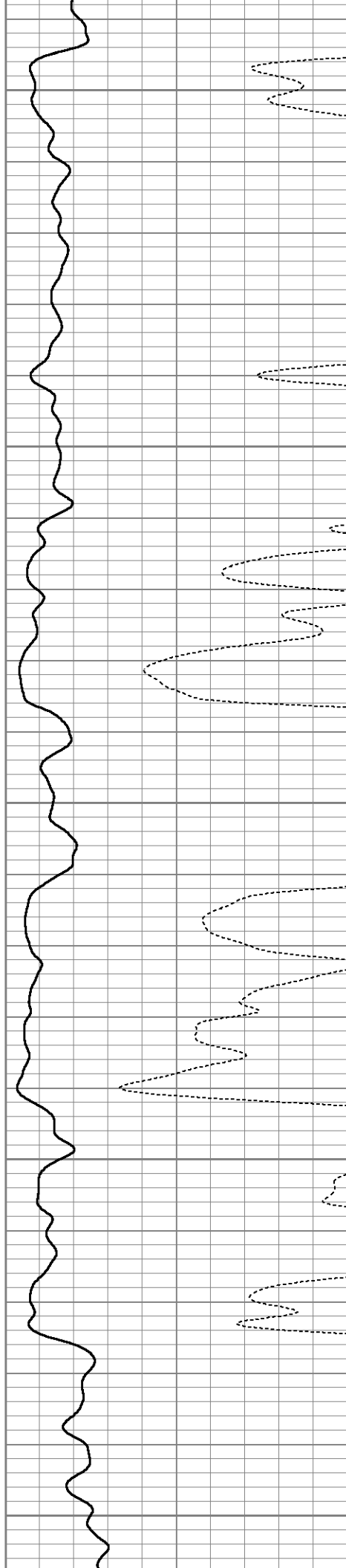
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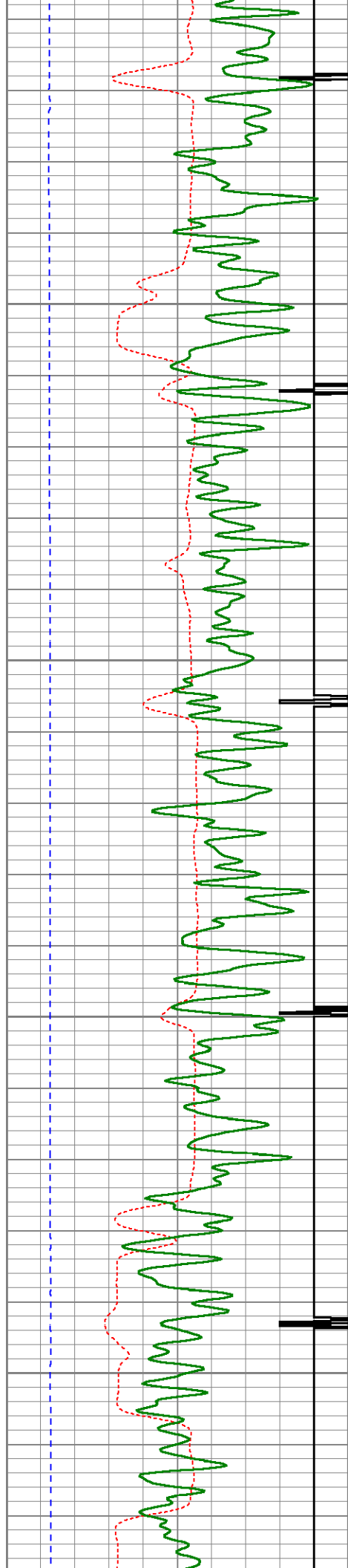
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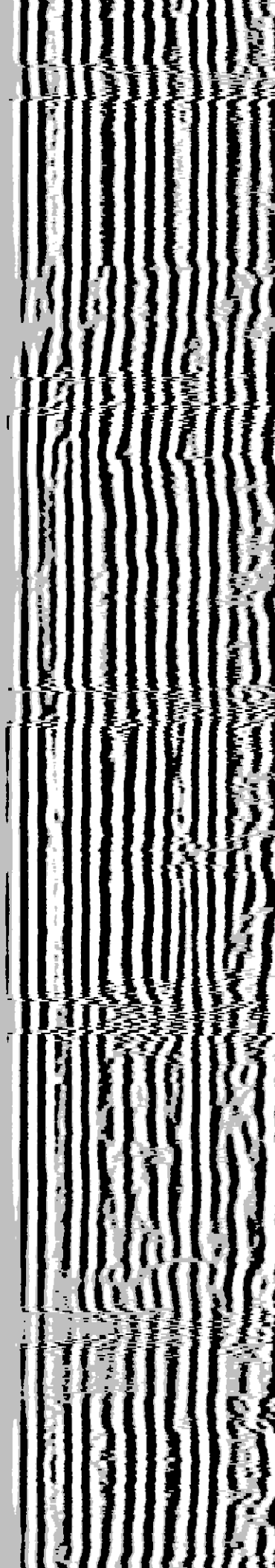
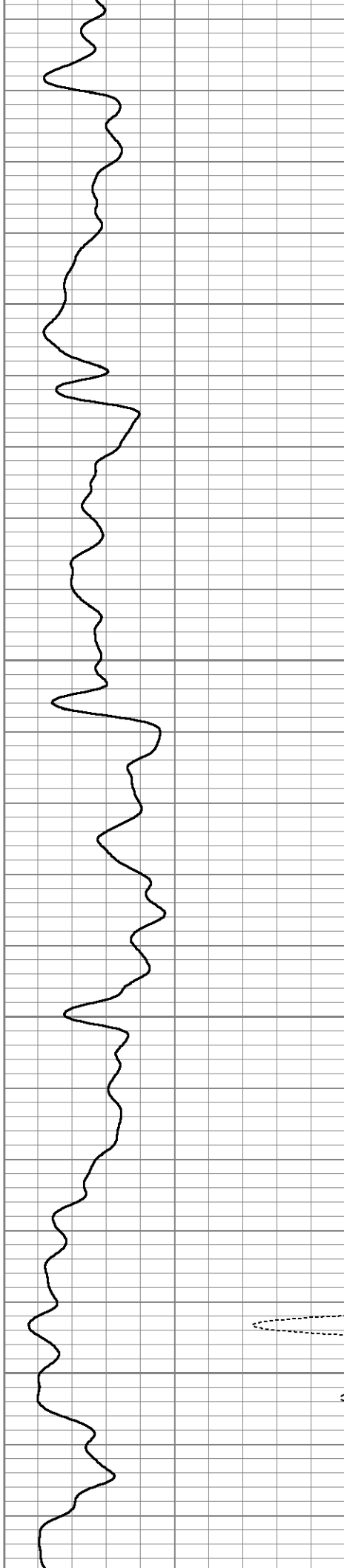


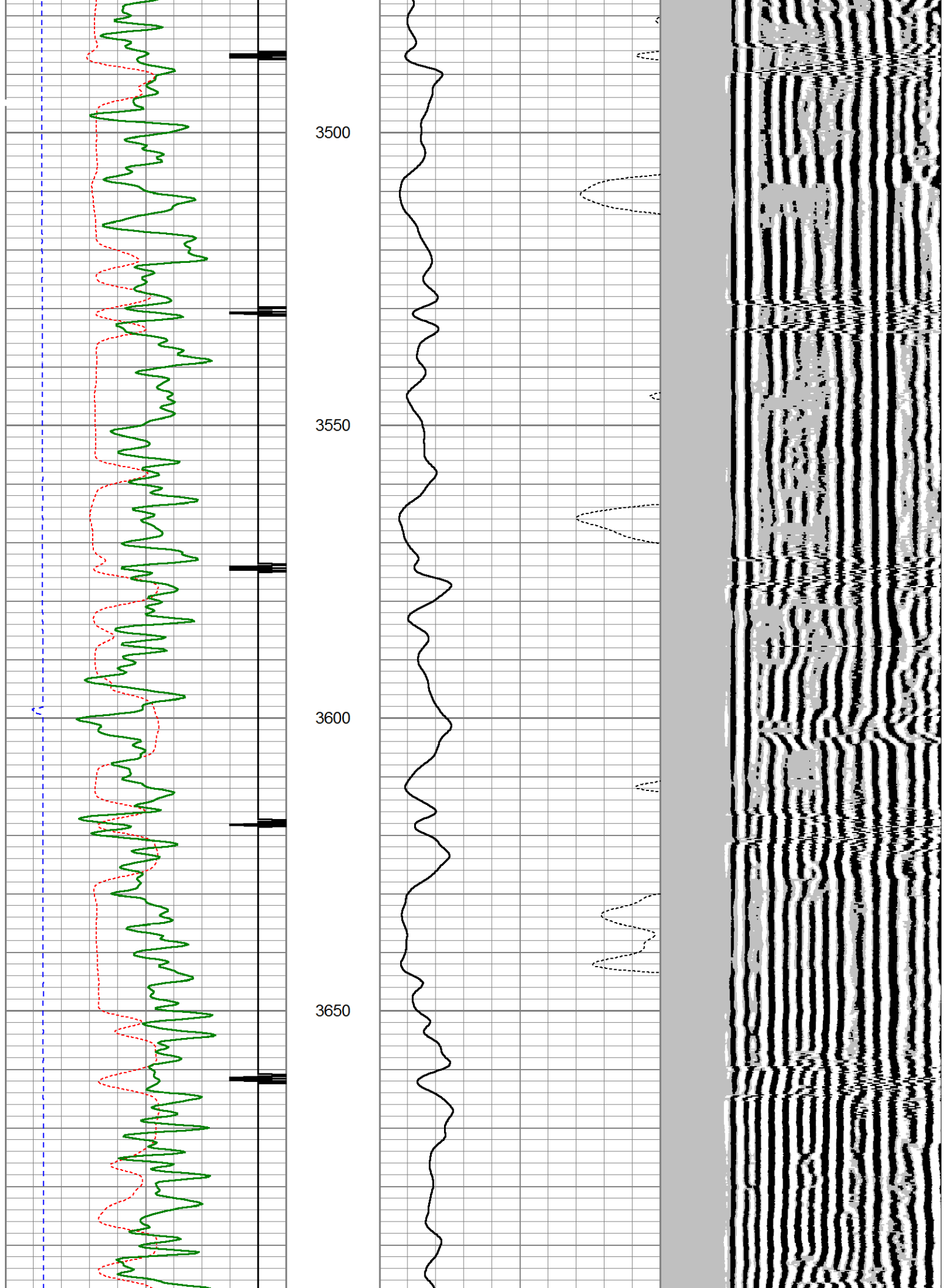
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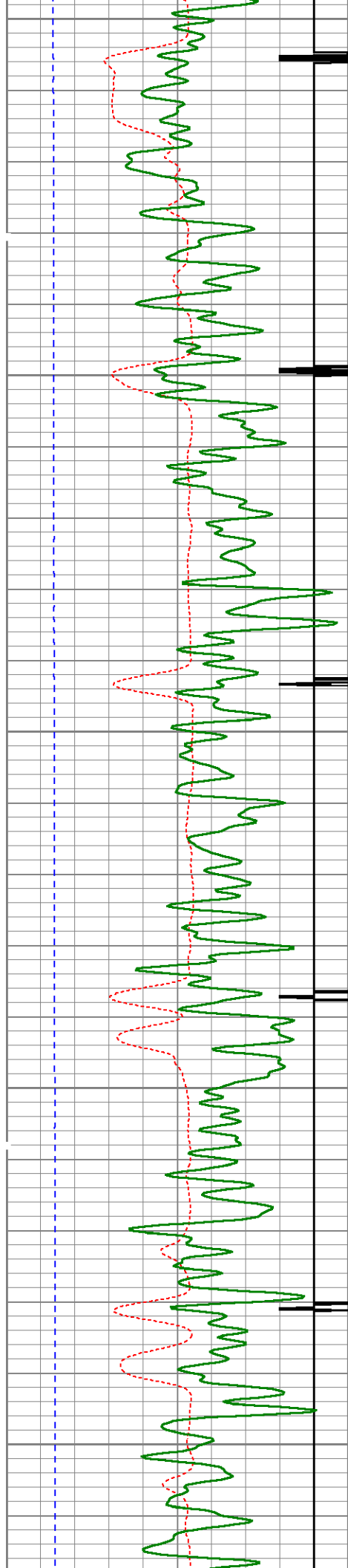
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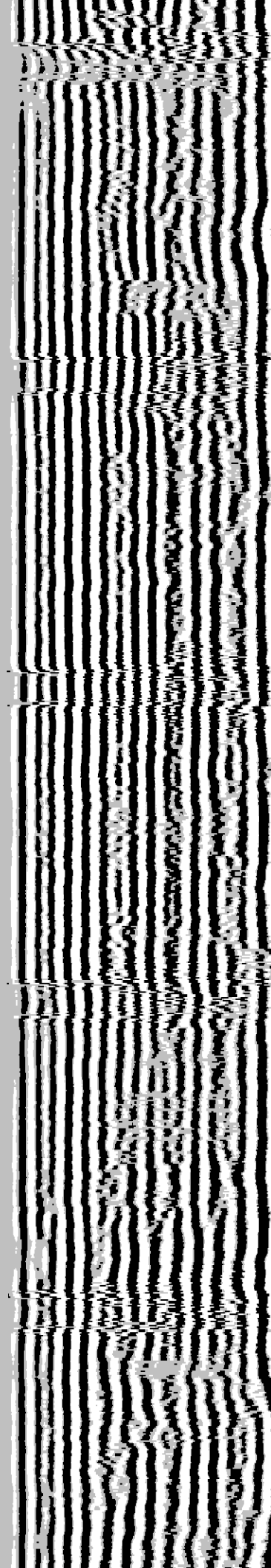
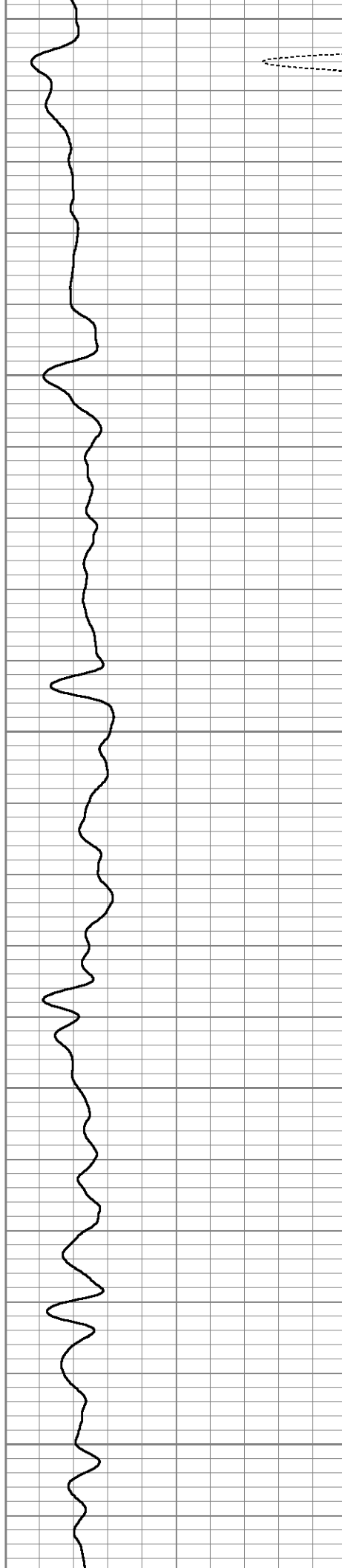
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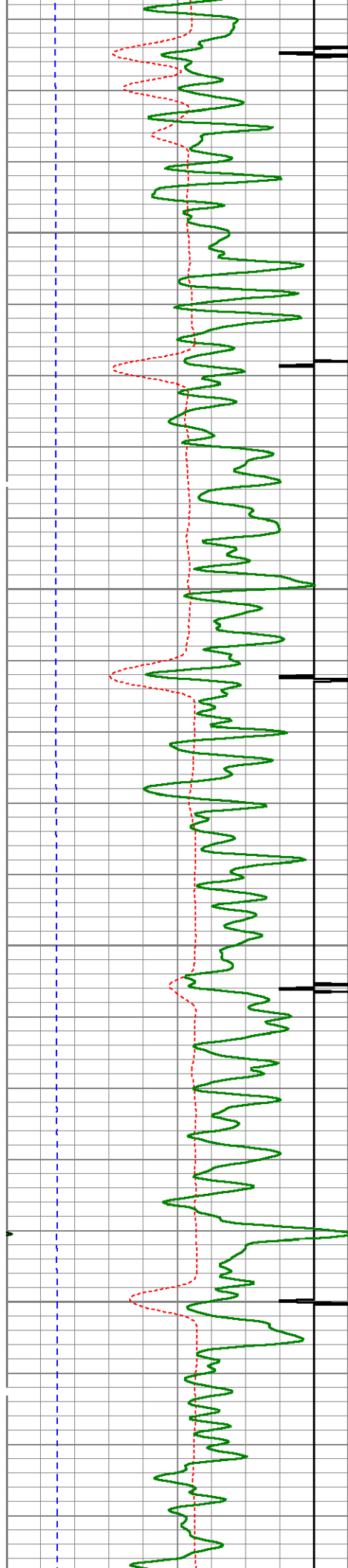
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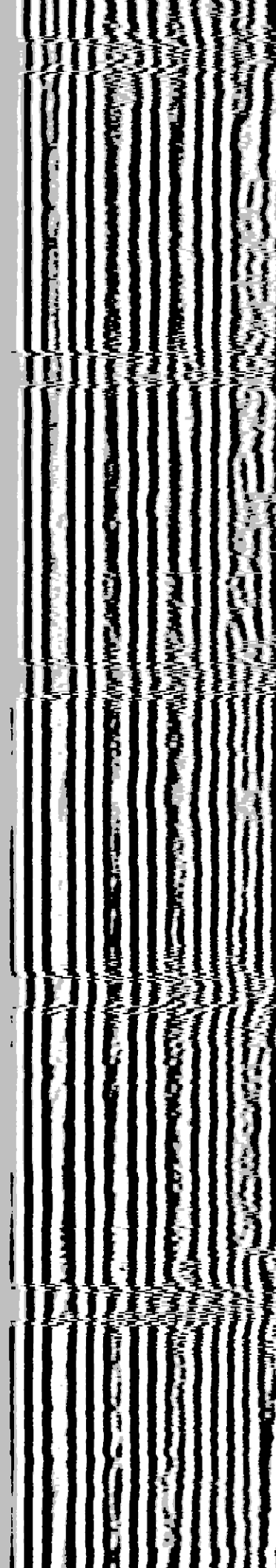
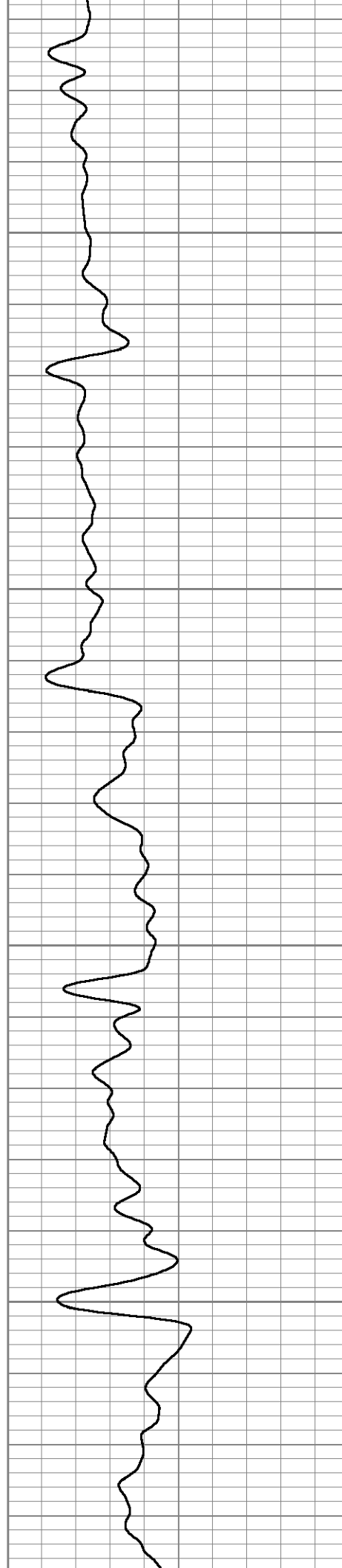


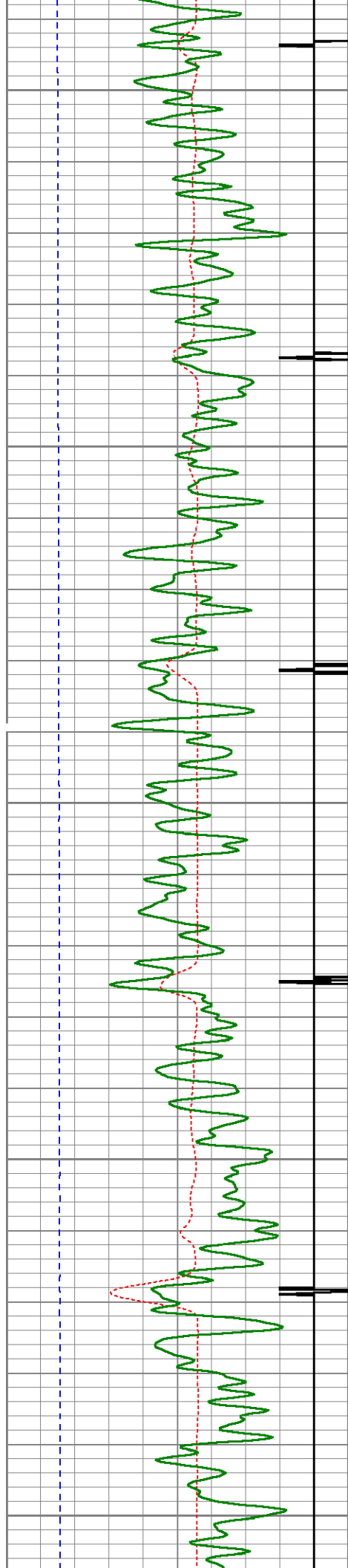
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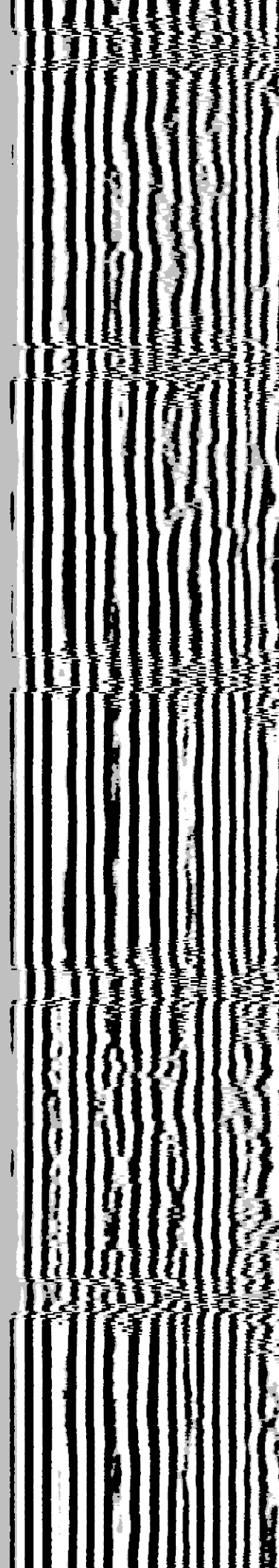
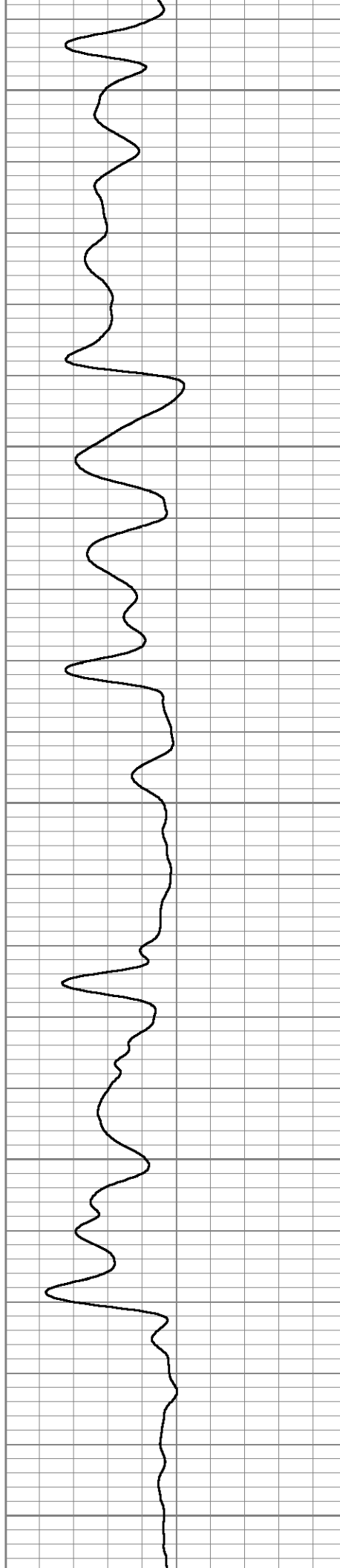
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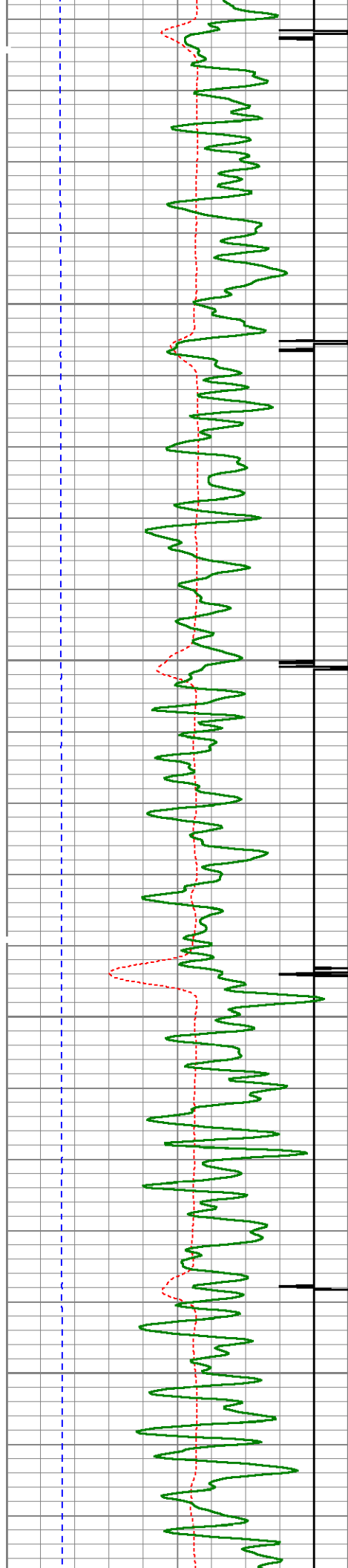
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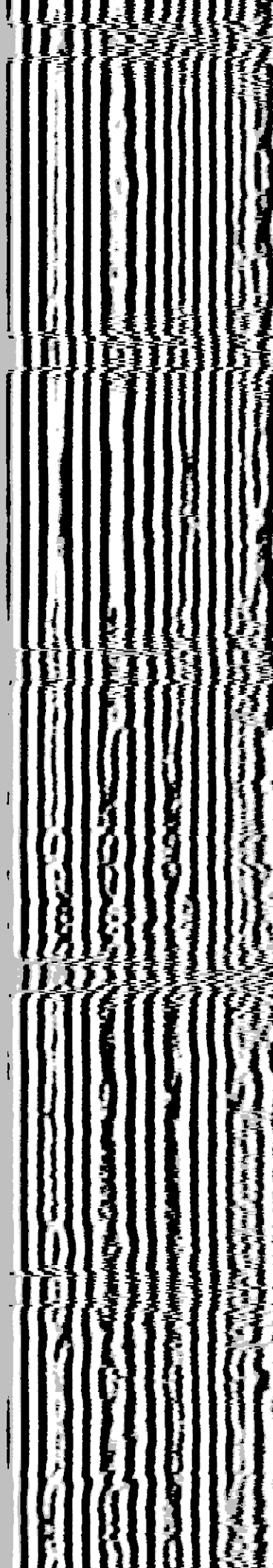
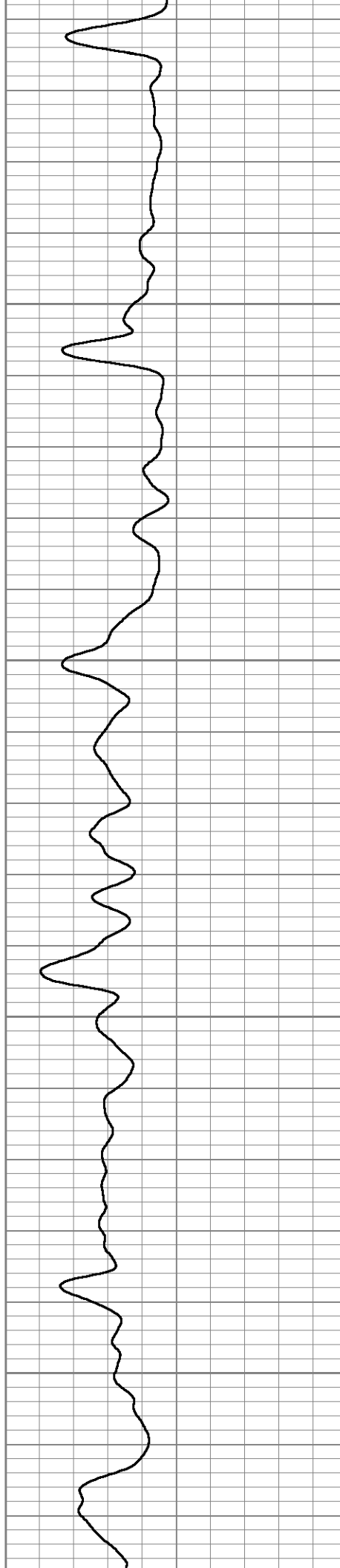


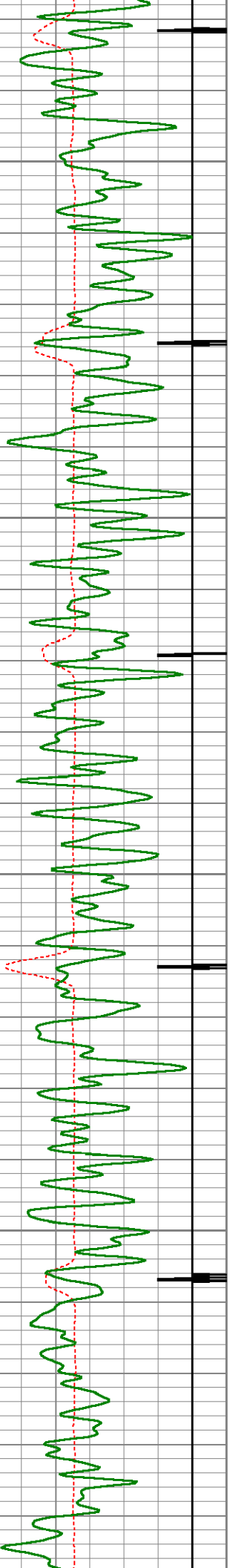
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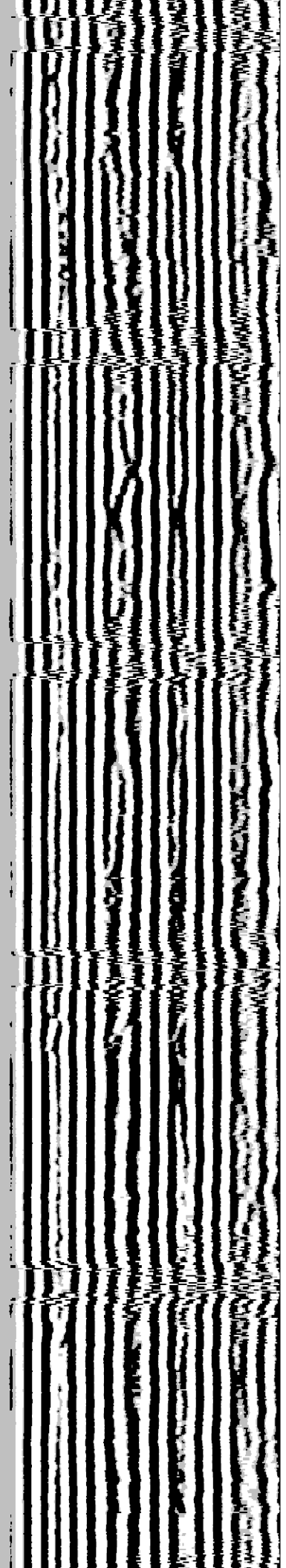
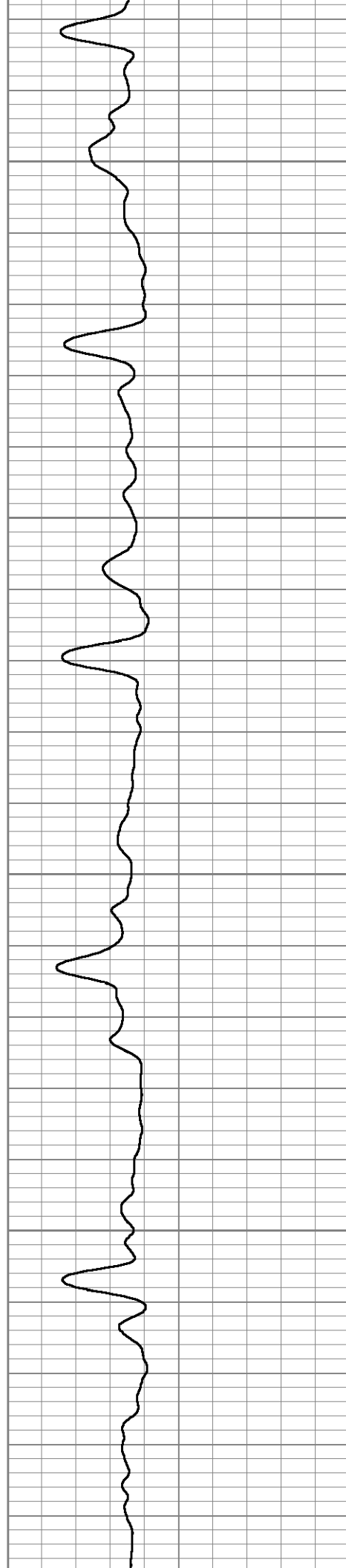


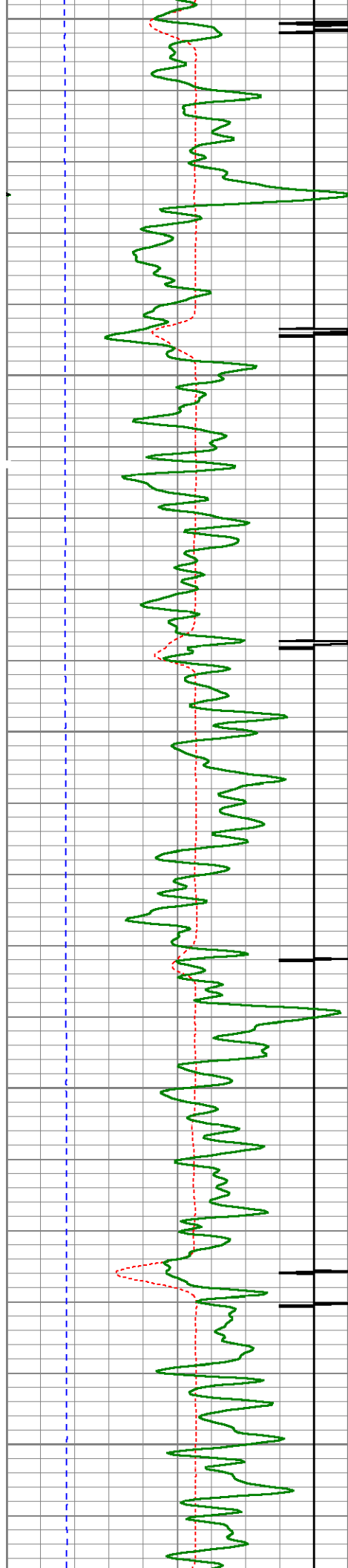
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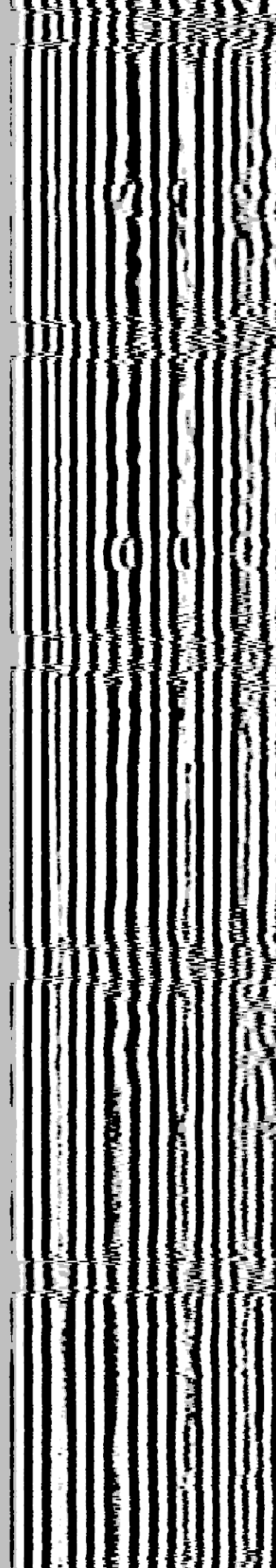
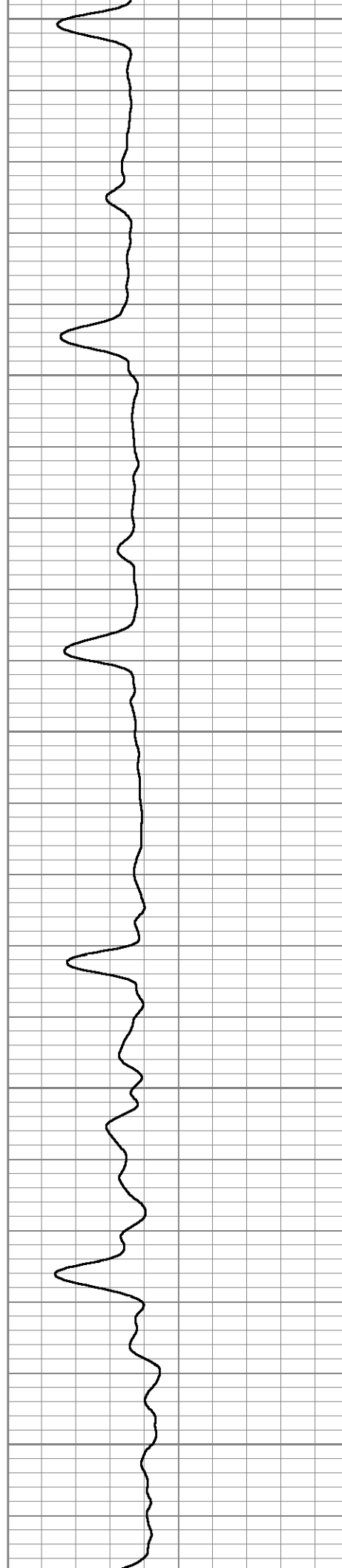
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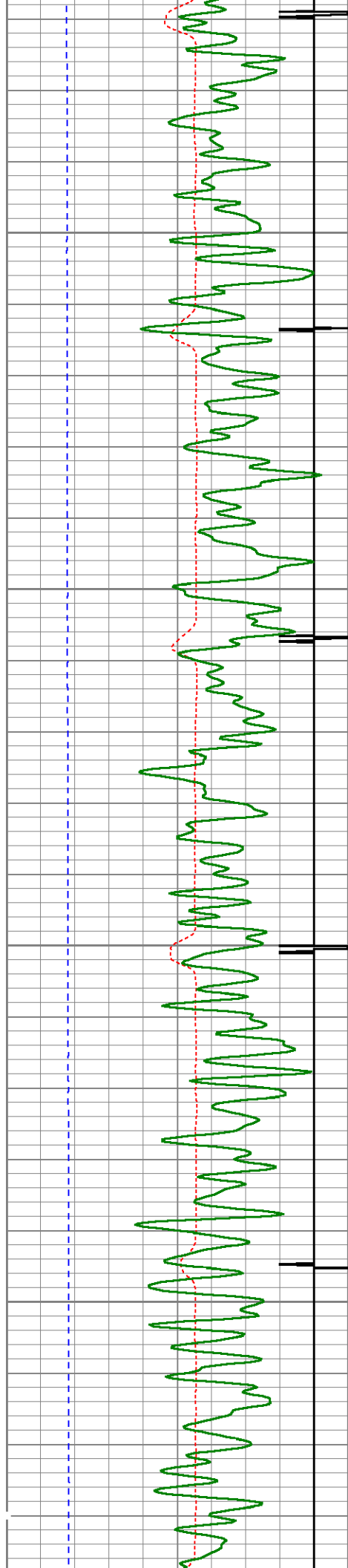
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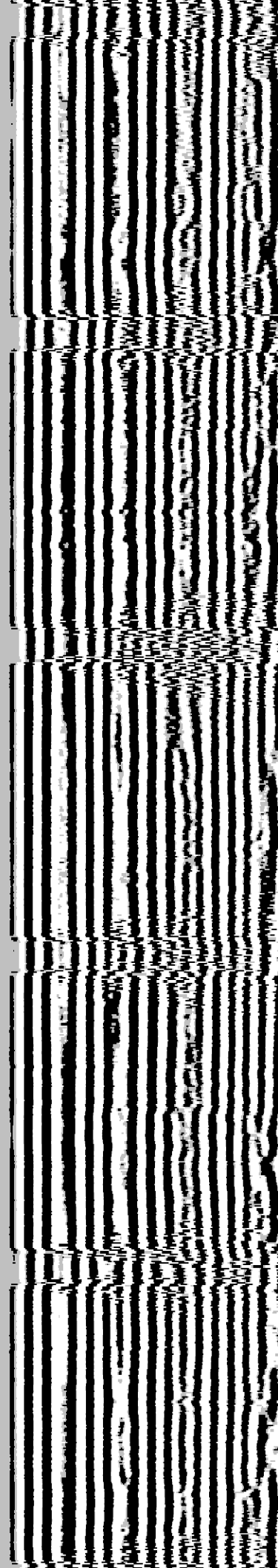
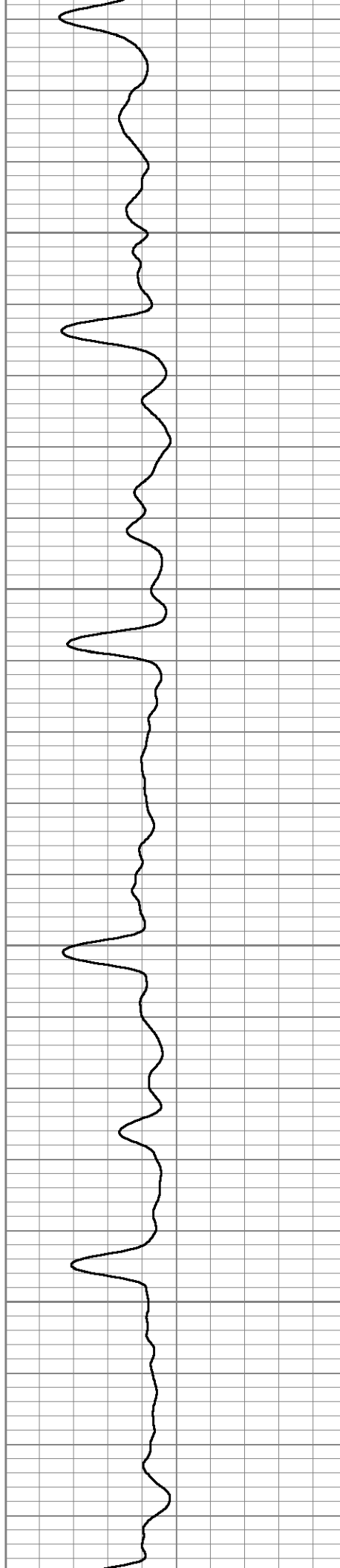


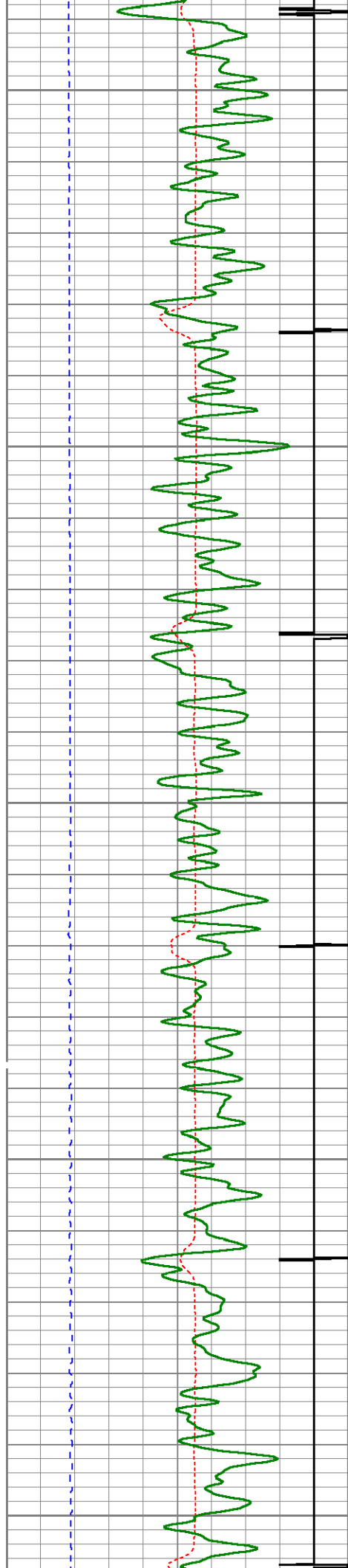
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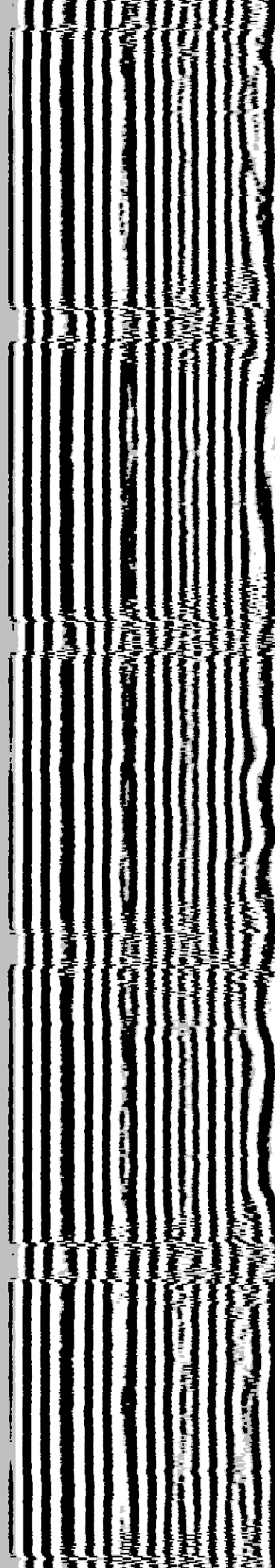
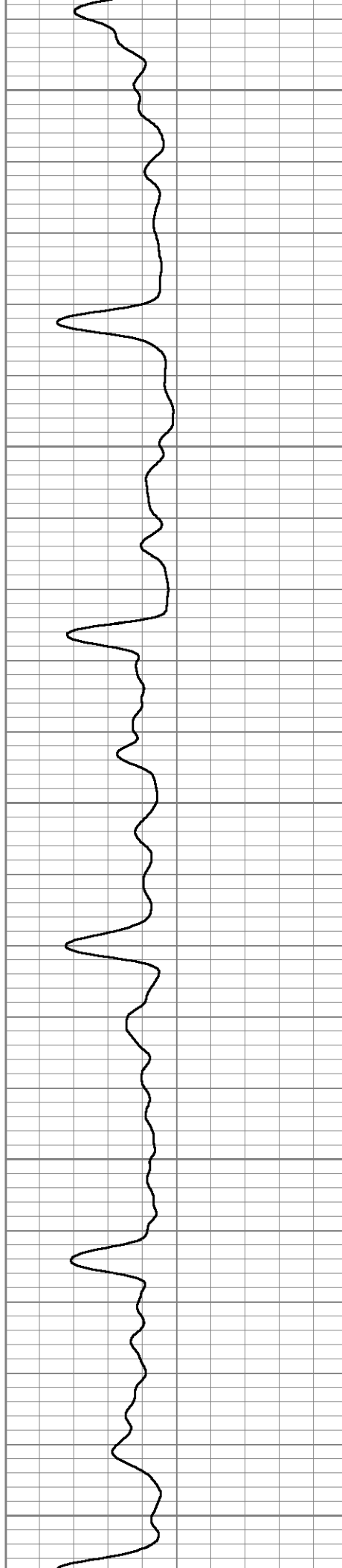
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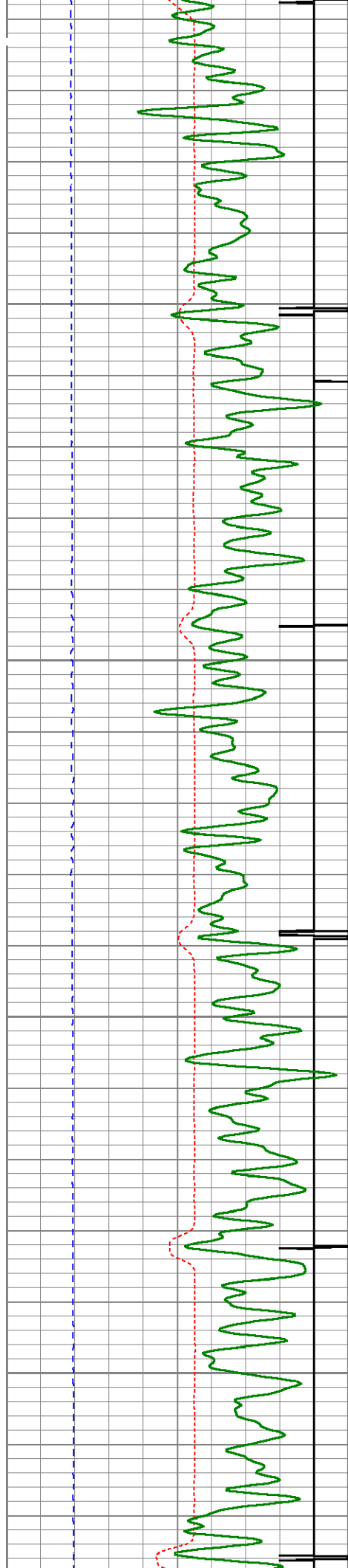
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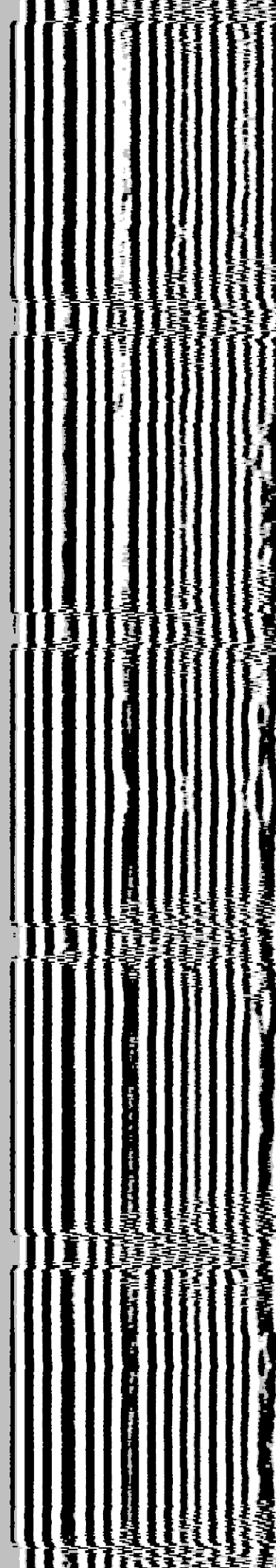
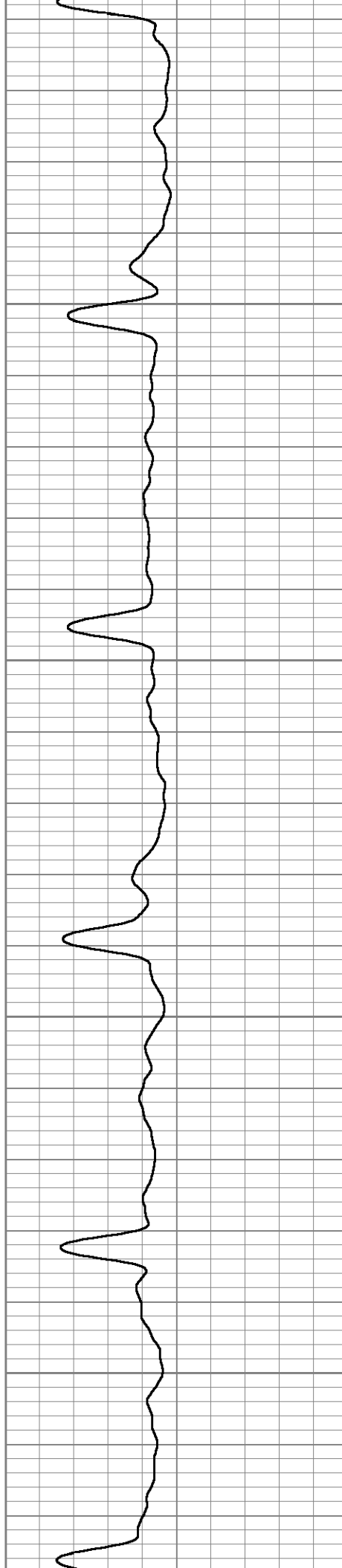


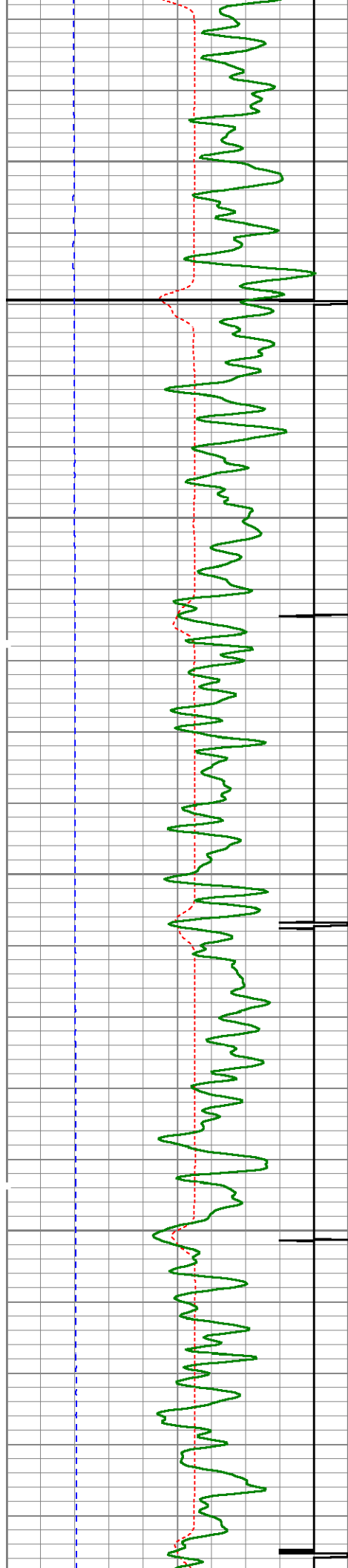
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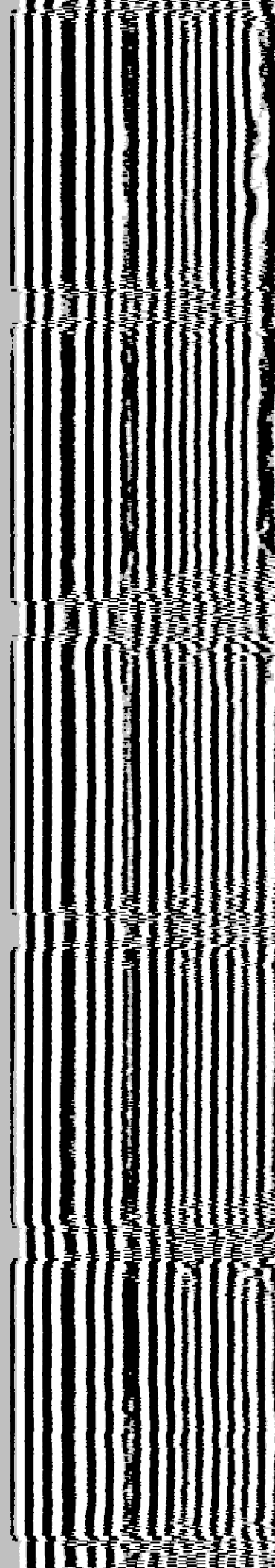
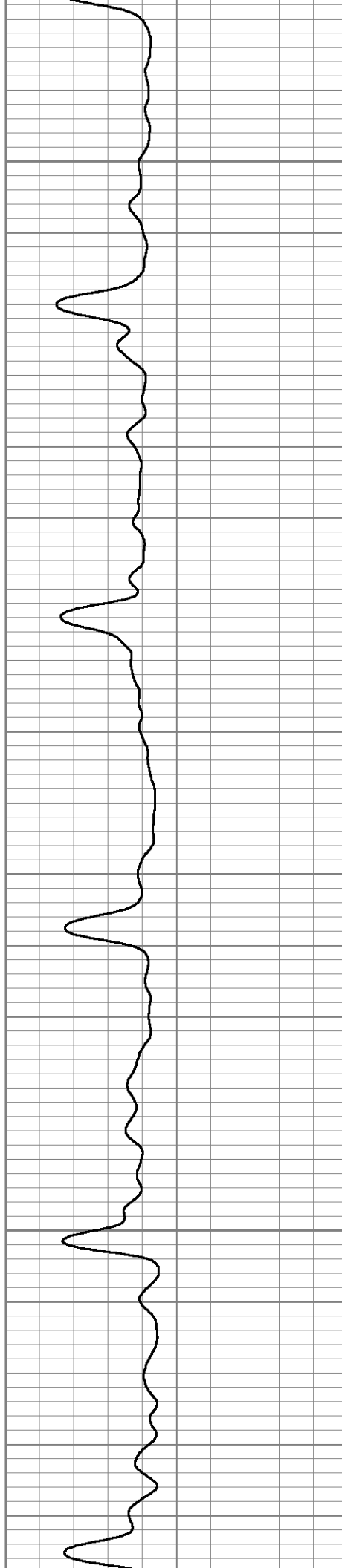


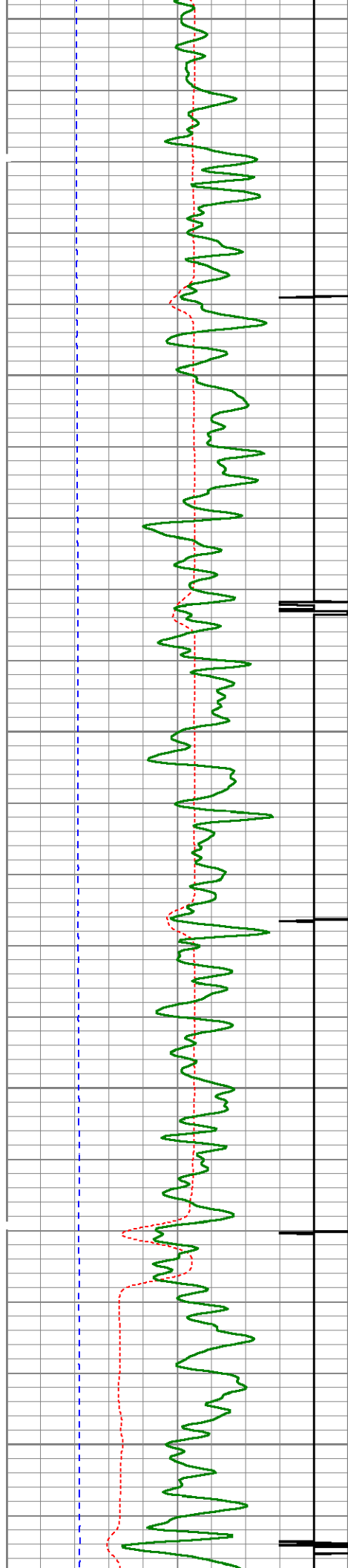
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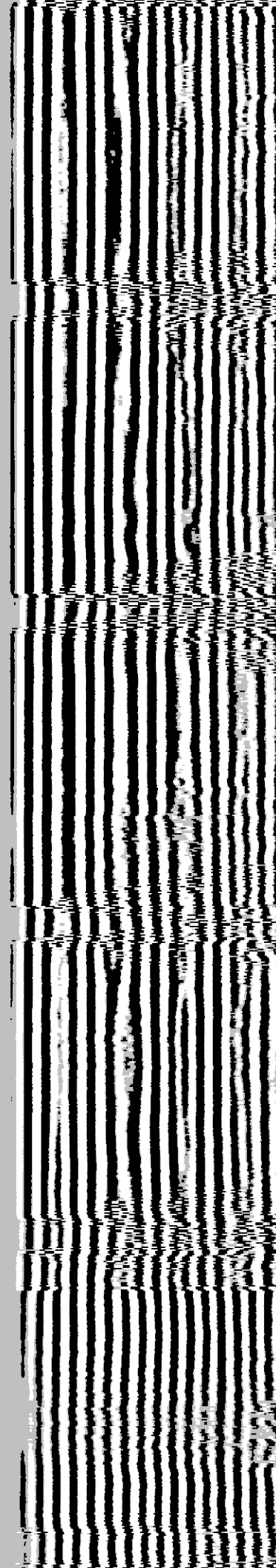
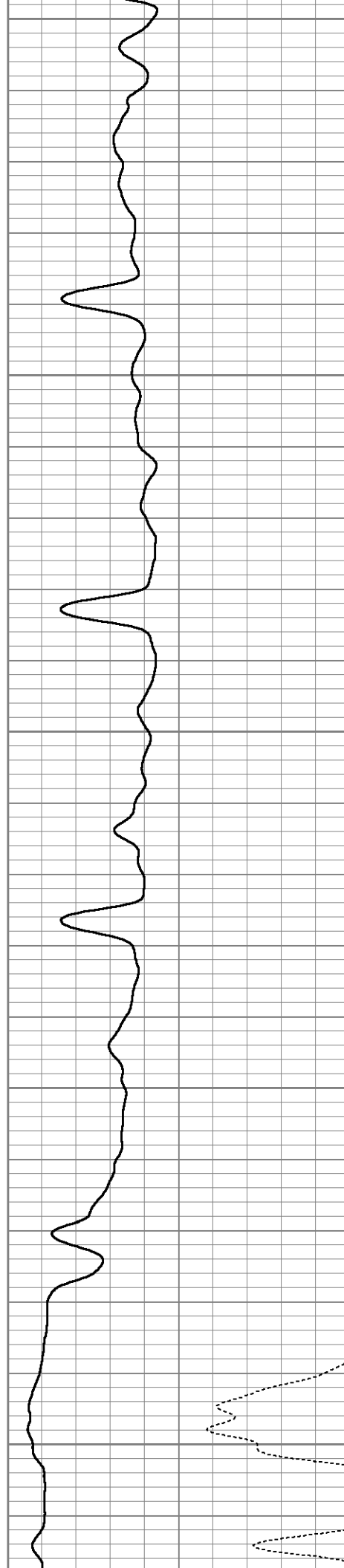
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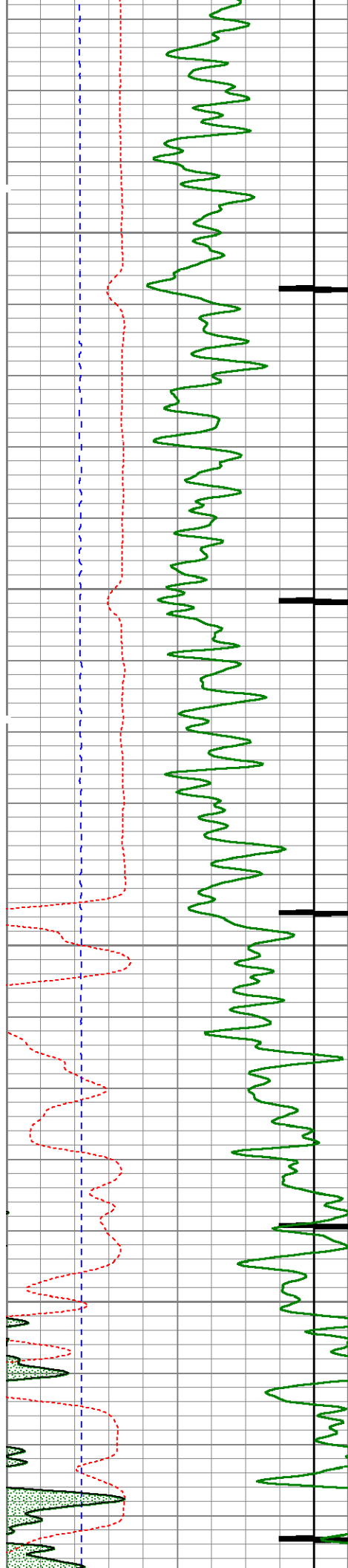
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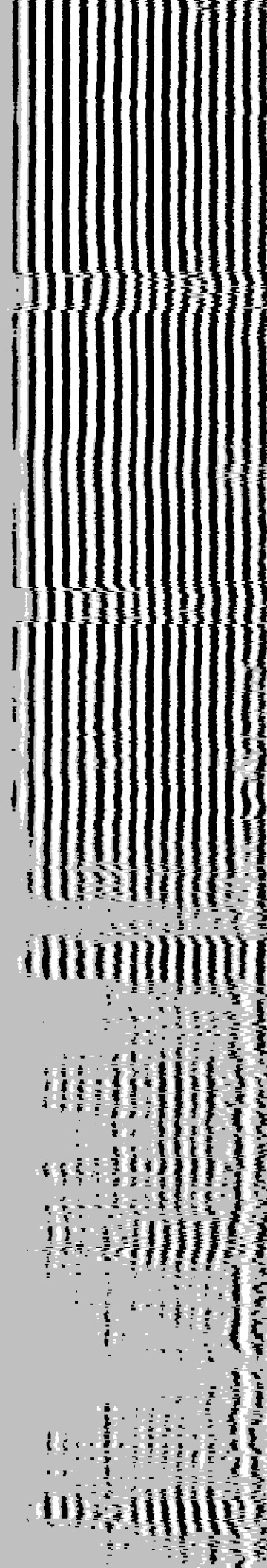
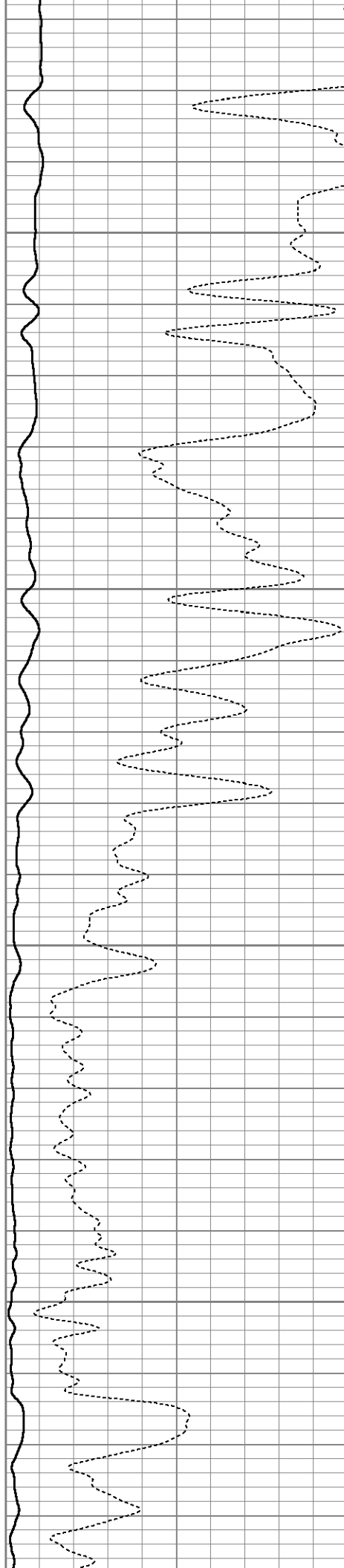


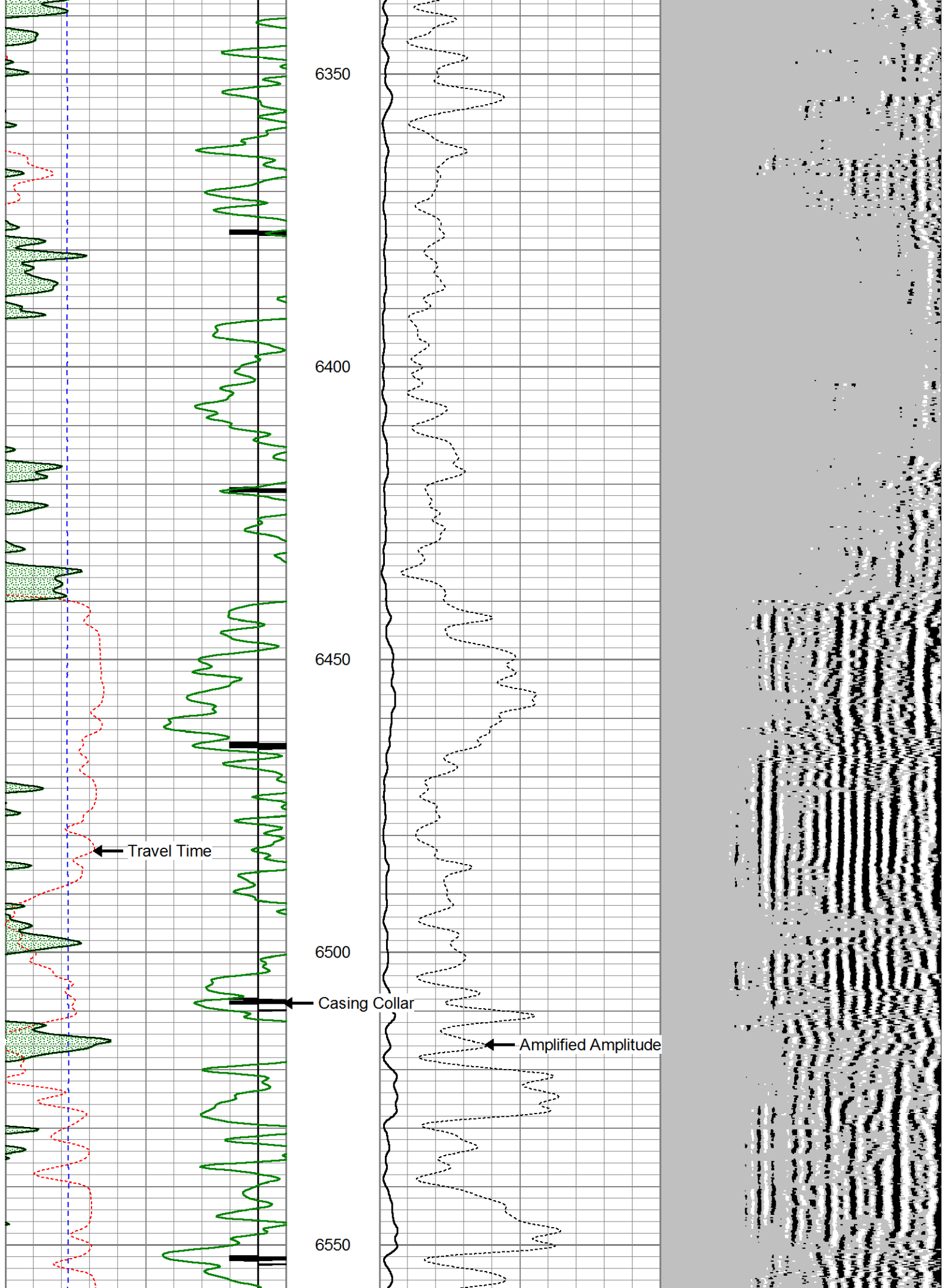
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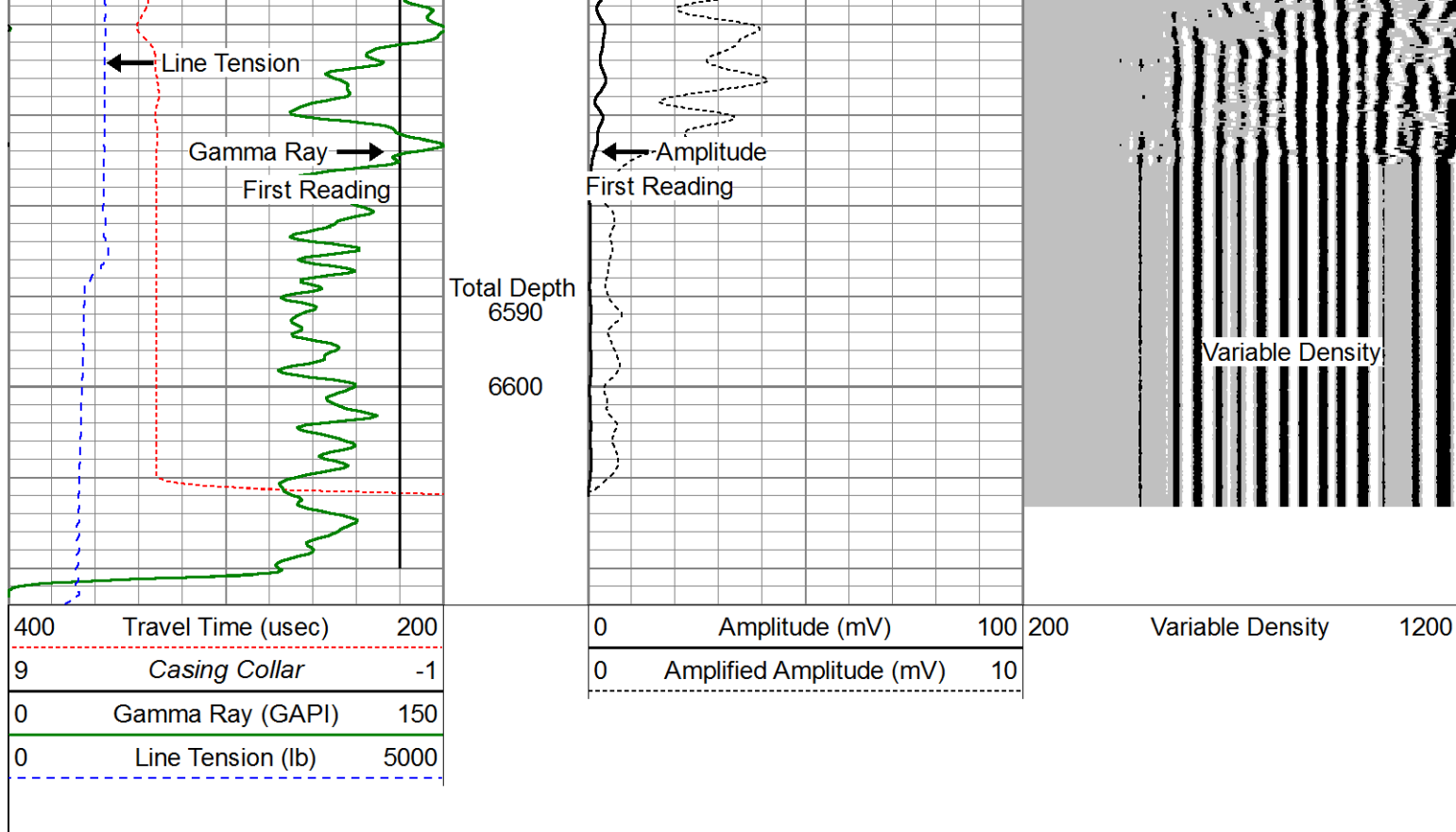
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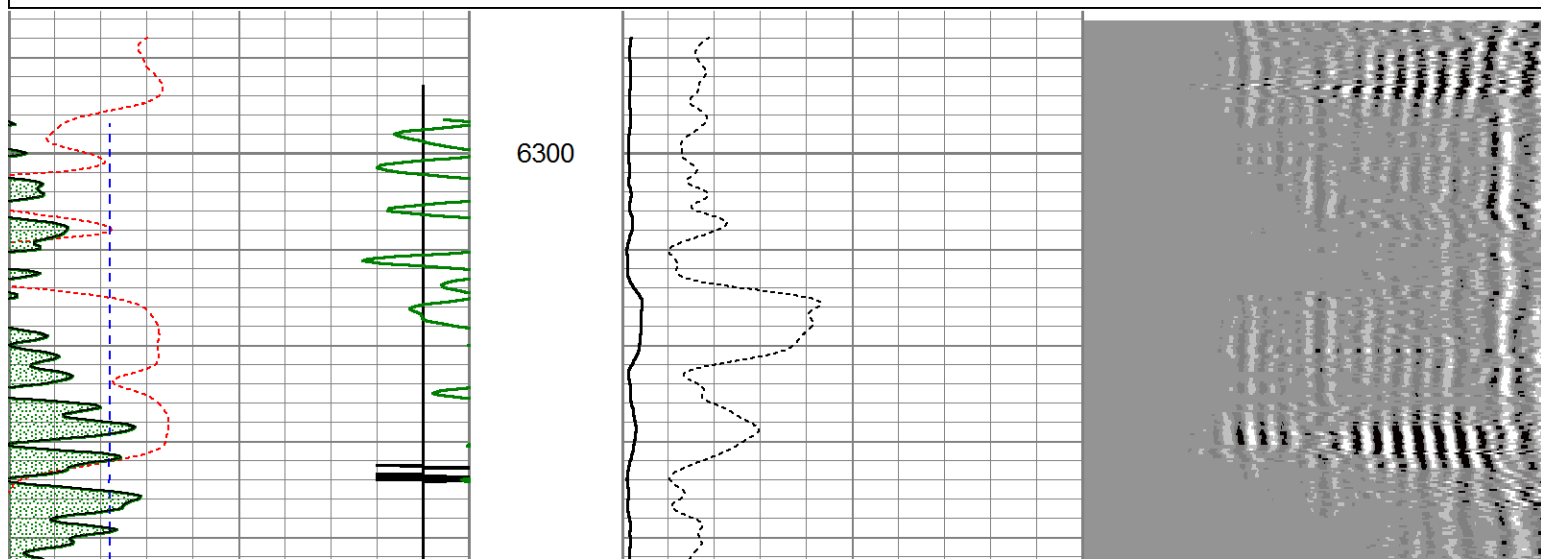
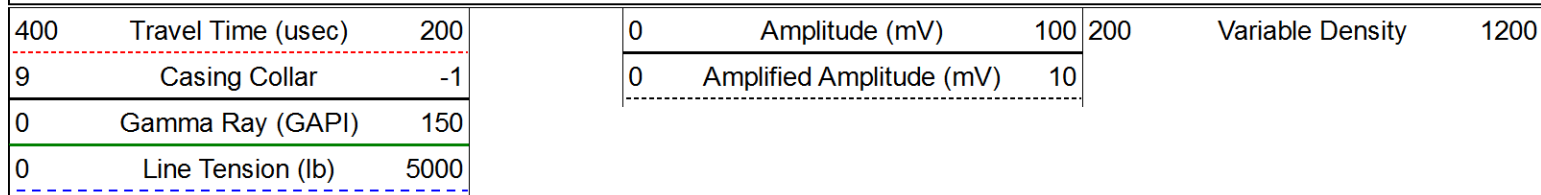


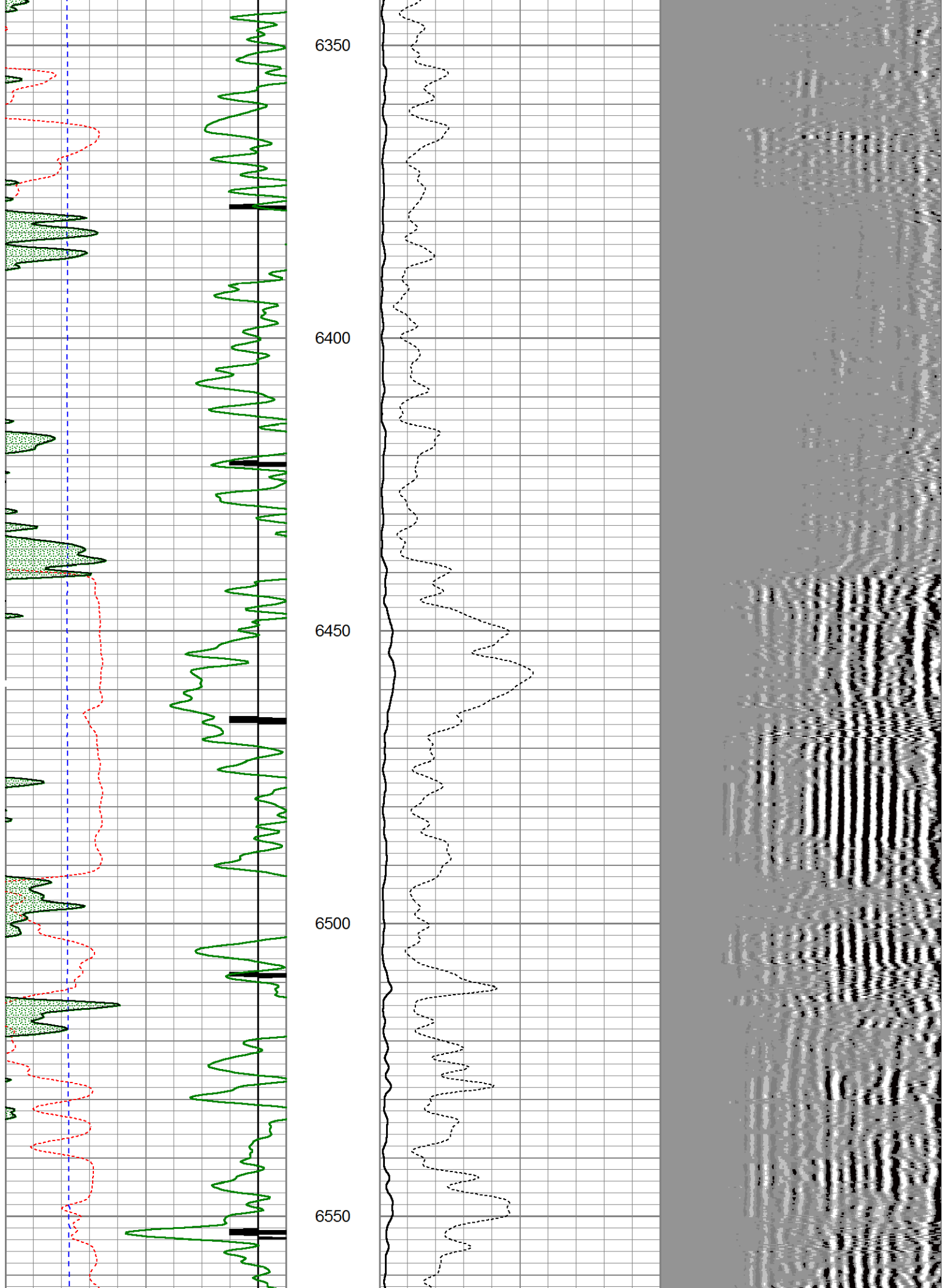


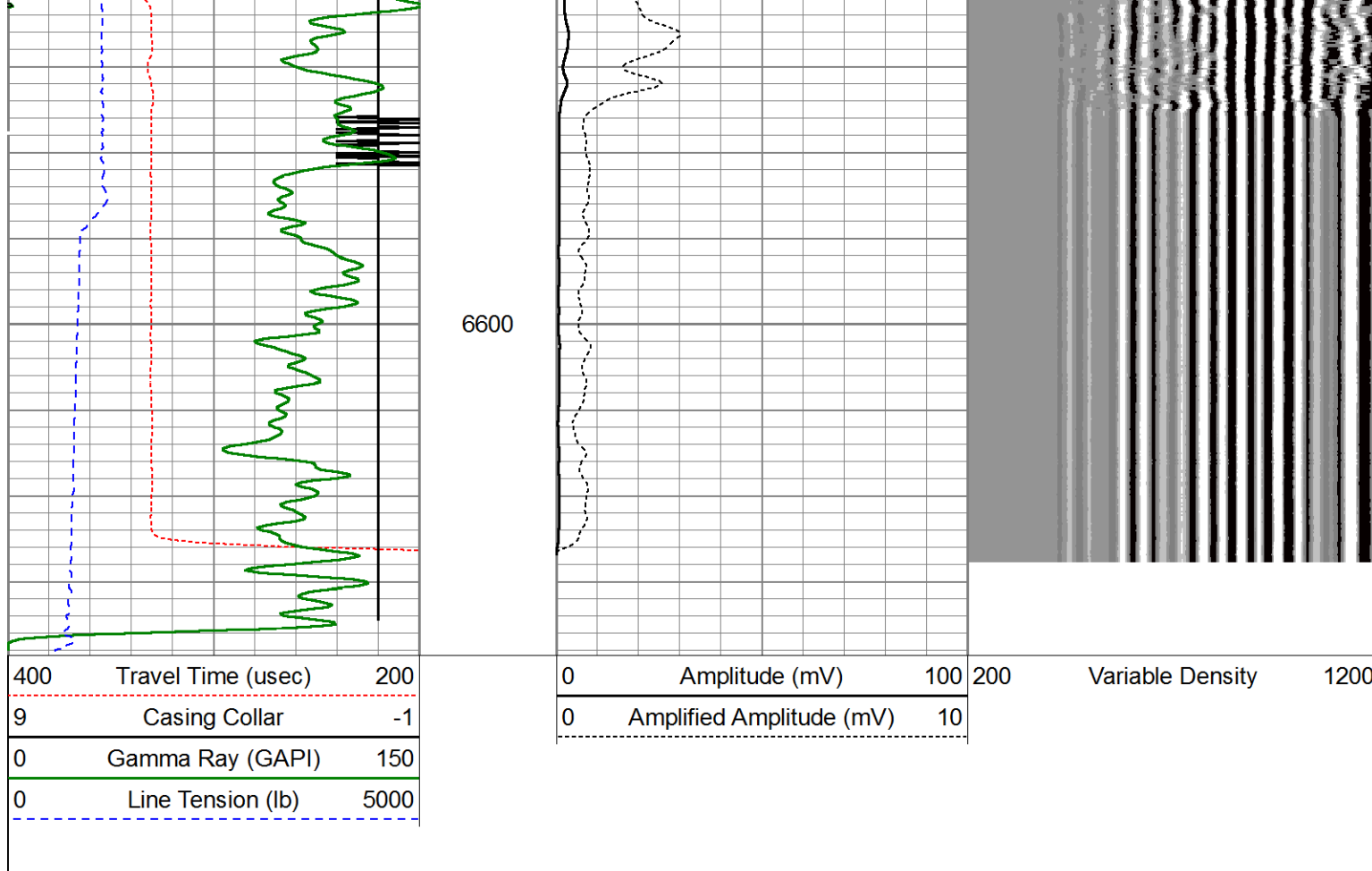


Repeat Pass(0 PSI)

Database File: c:\warrior\data\cased hole\bonanza creek\state north platte p-t-26hnc\bonanza creek energy operating co
 Dataset Pathname: pass3
 Presentation Format: cblprobe
 Dataset Creation: Mon Dec 16 16:23:47 2013 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240







Calibration Report		
Database File:	C:\Warrior\Data\Cased Hole\Bonanza Creek\State North Platte P-T-26HNC\bonanza creek energy operatin	
Dataset Pathname:	pass4.1	
Dataset Creation:	Mon Dec 16 17:37:12 2013 by Calc 7.0 B1	

Gamma Ray Calibration Report		
Serial Number:	110108-Dig	
Tool Model:	Probe275	
Performed:	Tue Nov 05 09:42:00 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:	5.500	in
Calibration Depth:	1252.300	ft

Master Calibration, performed Mon Dec 16 15:56:06 2013:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.720	1.000	71.921	167.875	-0.624
CAL	0.003	0.711				

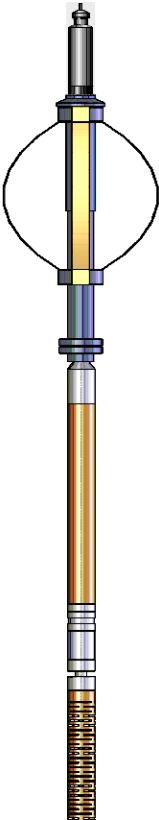
CAL	0.006	0.711	1.000	71.921	107.972	0.358
5'						
SUM						
S1	0.032	0.729	0.000	100.000	143.541	-4.626
S2	0.011	0.716	0.000	100.000	141.863	-1.553
S3	0.007	0.715	0.000	100.000	141.271	-1.059
S4	0.008	0.406	0.000	100.000	251.080	-1.989
S5	0.008	0.714	0.000	100.000	141.681	-1.117
S6	0.008	0.716	0.000	100.000	141.183	-1.062
S7	0.007	0.713	0.000	100.000	141.769	-1.033
S8	0.007	0.718	0.000	100.000	140.795	-1.042

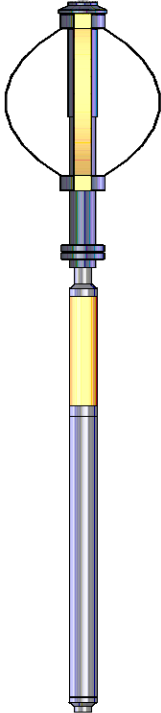
Internal Reference Calibration, performed Mon Oct 10 09:42:03 2005:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.711	1.000	0.000

Air Zero Calibration, performed Mon Dec 16 13:52:18 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)
WVF3FT WVF3FT	11.84		Titan Cable_head	1.00	1.44	10.00
	11.84		Probe275 2.75" Centralizer	2.88	2.75	20.00
	11.84		RBT-Probe (101224) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00

Tool Joint	Depth (ft)	Tool Joint Diagram	Tool Joint Description	Length (ft)	Weight (lb)	O.D. (in)
WVFCAL	11.84		Probe275 2.75" Centralizer	2.88	2.75	20.00
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					
CCL	3.88					
GR	2.54		GR-Probe275 (110108-Dig) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00

Dataset: bonanza creek energy operating company llc p-t-26hnc.db: field/well/run1/pass4.1

Total Length: 20.28 ft

Total Weight: 197.00 lb

O.D. 2.75 in