



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

Company		Bonanza Creek Energy	
Well		North Platte Federal K-O-22 HNB	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API # : 05-123-37700	
SEC 22 TWP 5N RGE 63W		NONE	
Permanent Datum		Ground Level Elevation 4649'	
Log Measured From		Kelly Bushing 17' APD	
Drilling Measured From		Kelly Bushing	
Elevation		K.B. 4666' D.F. 4665' G.L. 4649'	
Date	October 26, 2013		
Run Number	1		
Depth Driller	11,084'		
Depth Logger	6538'		
Bottom Logged Interval	6524'		
Top Log Interval	Surface		
Open Hole Size	8.75		
Type Fluid	Fresh Water		
Density / Viscosity	8.33		
Max. Recorded Temp.	N/A		
Estimated Cement Top	726'		
Time Well Ready	8:00		
Time Logger on Bottom	9:20		
Equipment Number	13033		
Location	Brighton		
Recorded By	C. Rall		
Witnessed By	K. Dodge		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
		From	To
Casing Record	Size	Wgt/Ft	Top
Surface String	9.625"	36#	0
Prot. String			
Production String	7"	26#	0
Liner	4.5"	11.6#	6999'
			11,084'

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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.

Primary Log on this Well

Logged from 17' Kelly Bushing

Main Pass and Repeat Pass logged with 0 PSI

Estimated Top of Cement @ 726

Tagged up @ 6586'

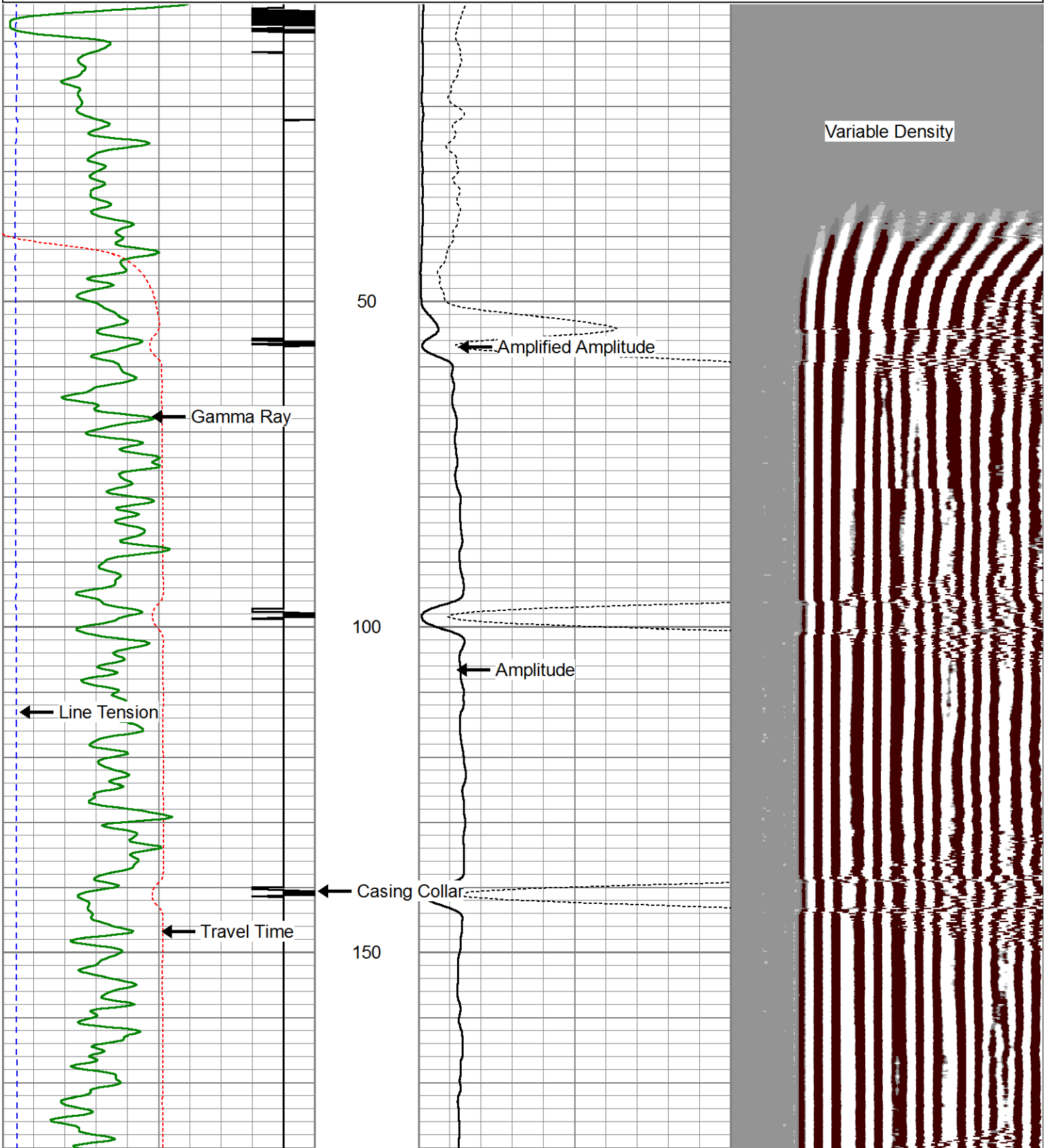
Thank You For using Allied Wireline Services

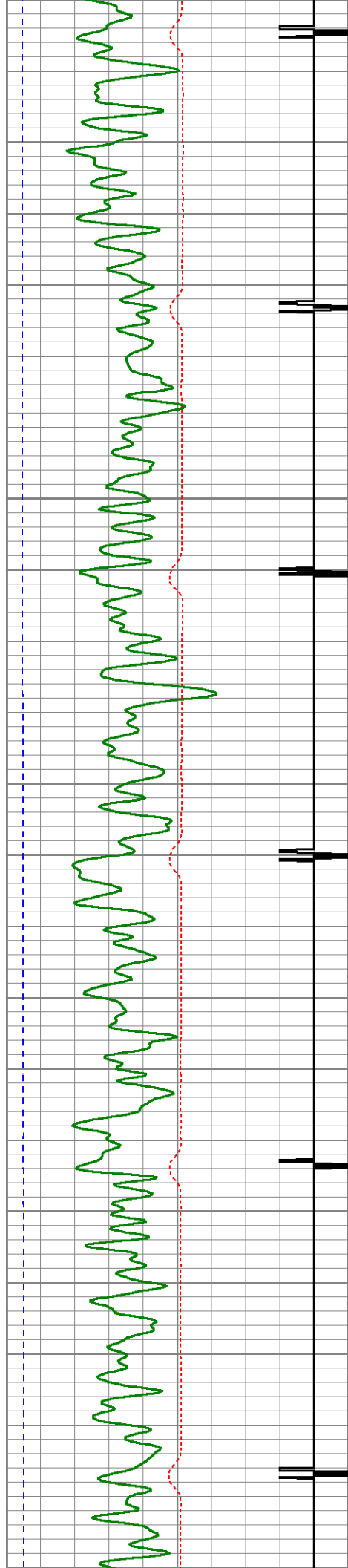
(303) 659-4609



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						





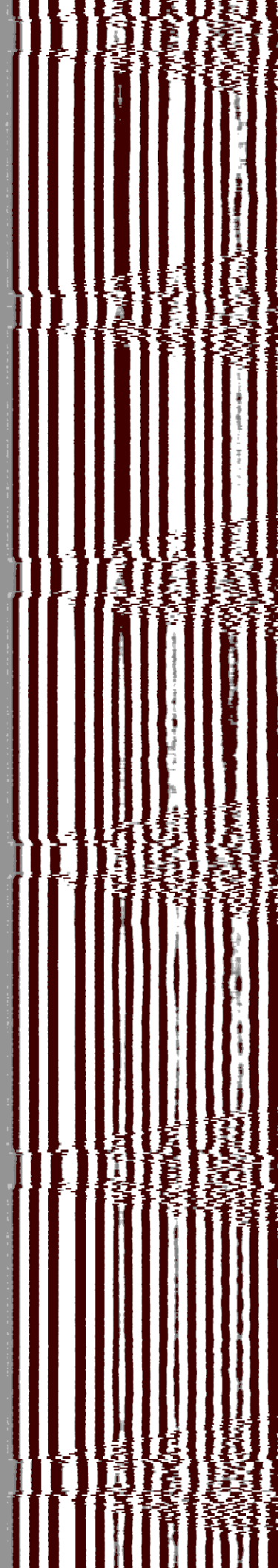
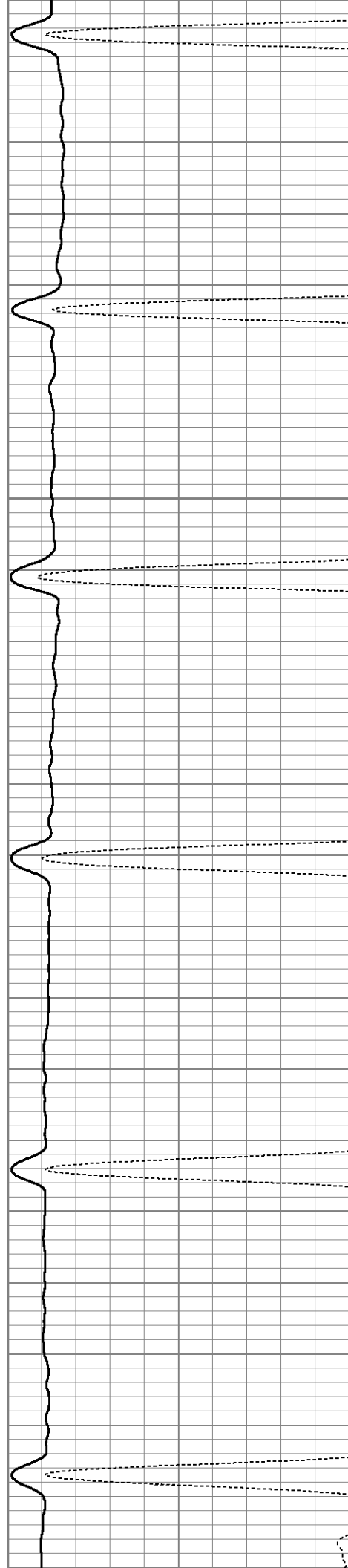
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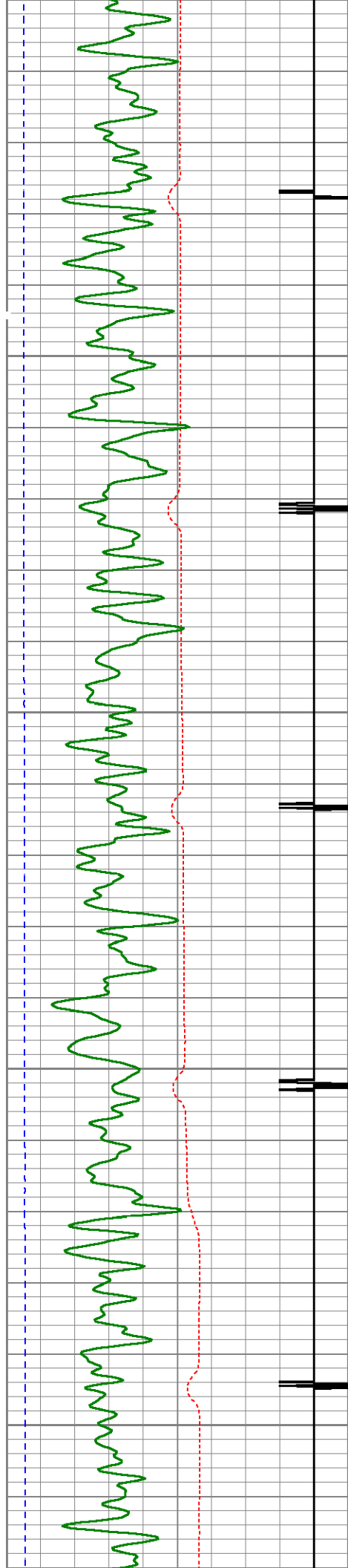
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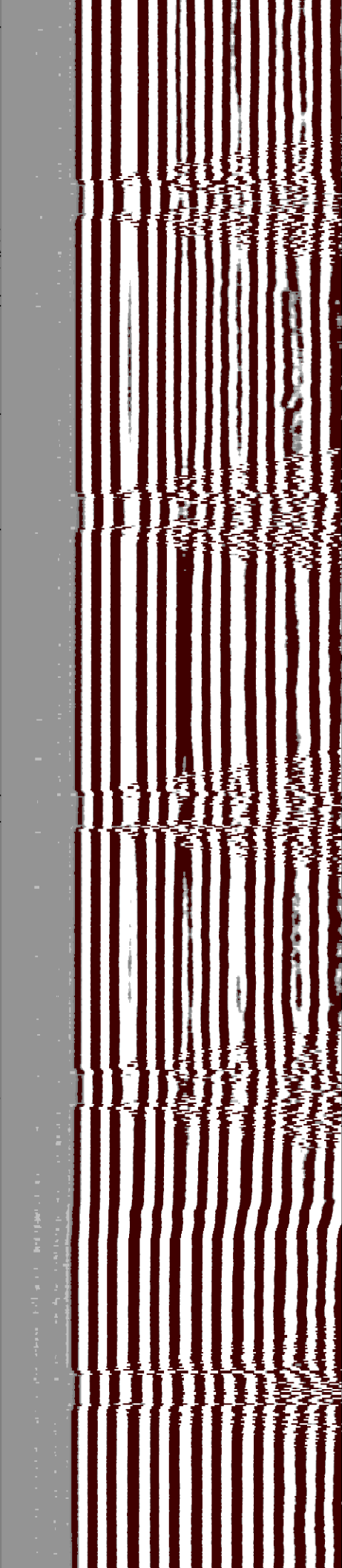
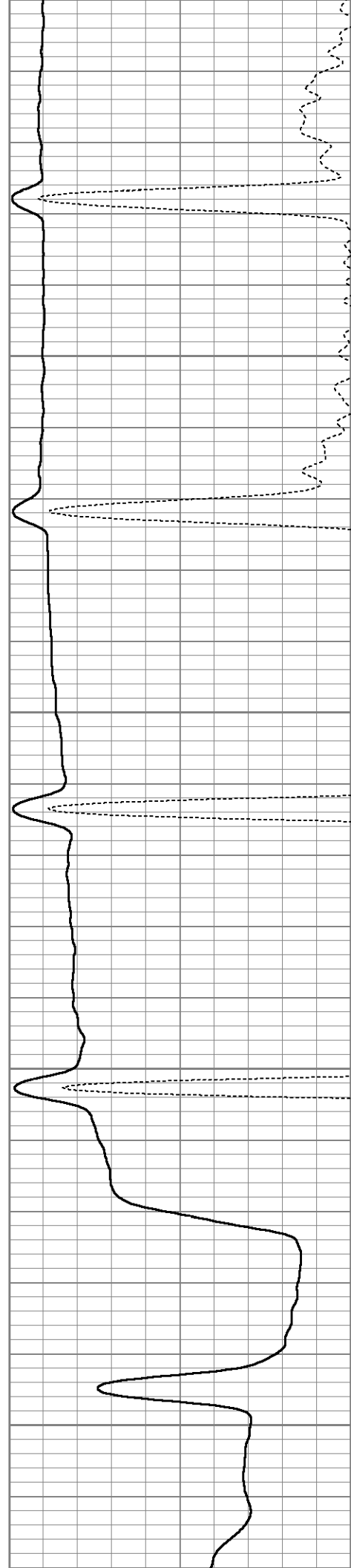
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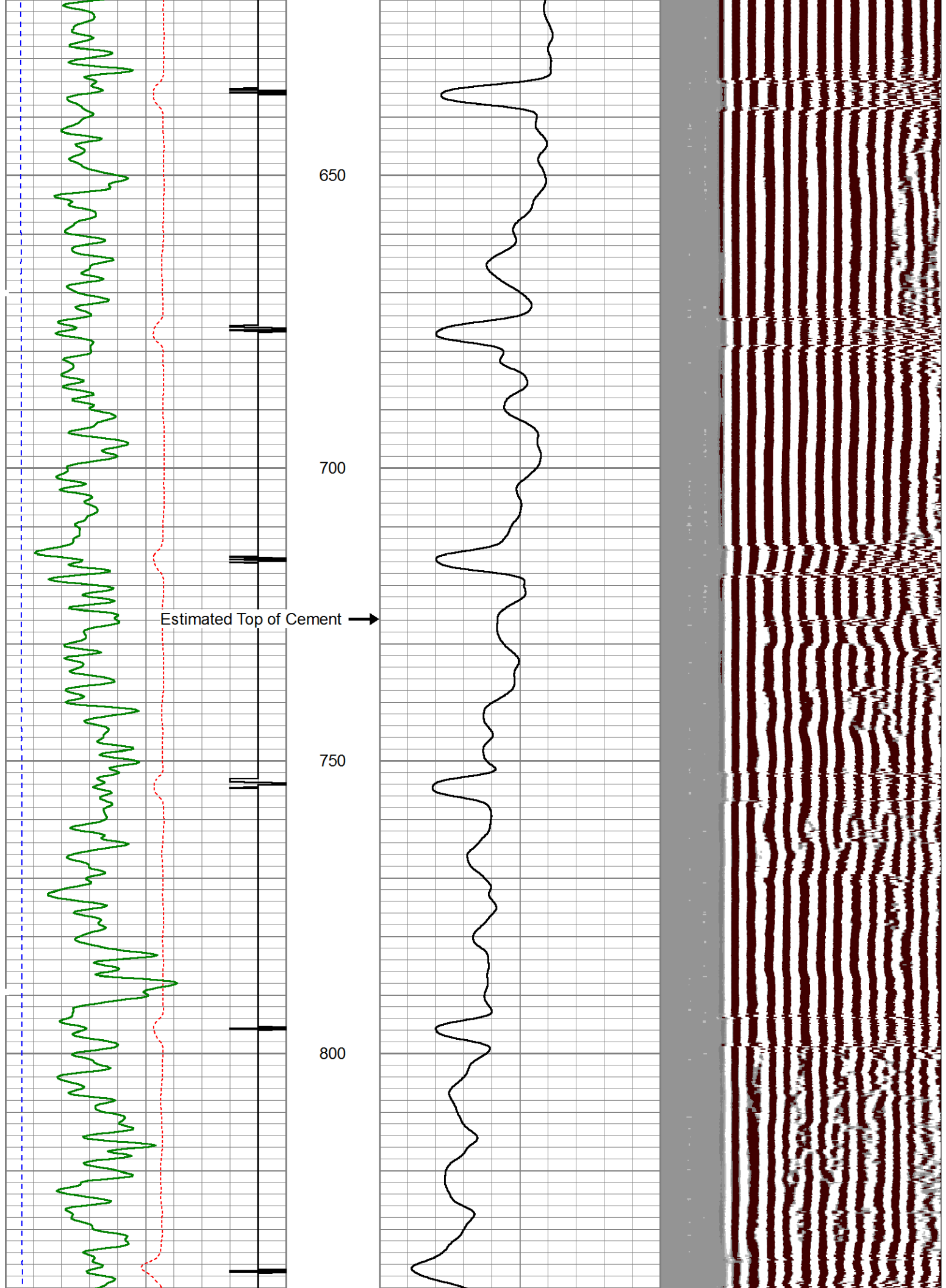
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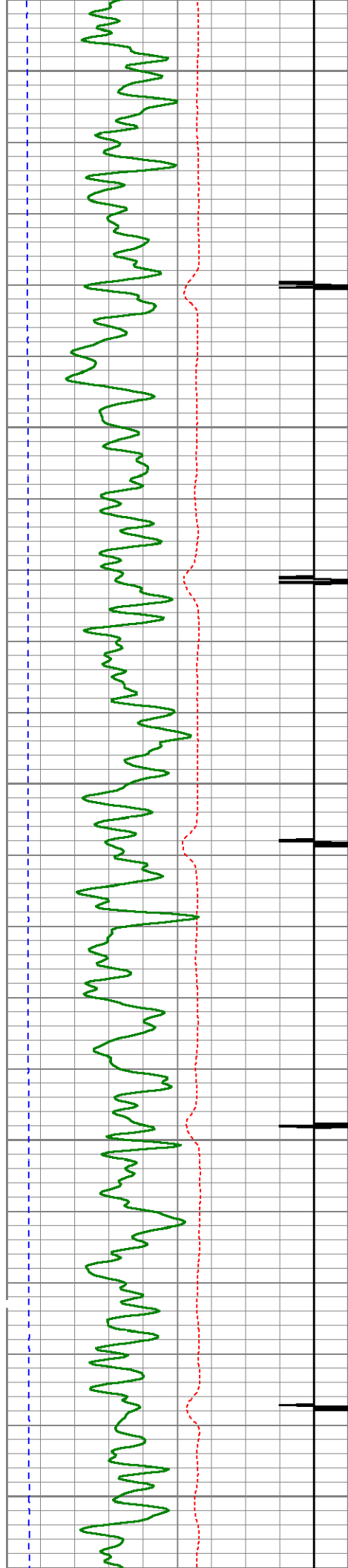




400
450
500
550
600







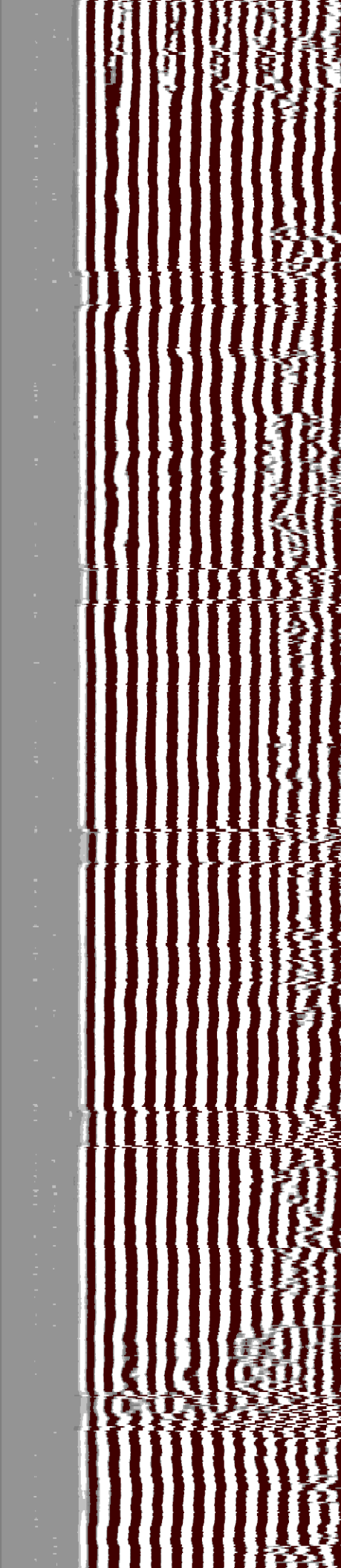
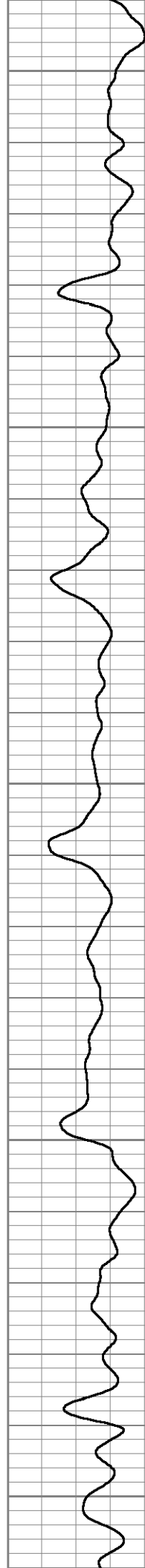
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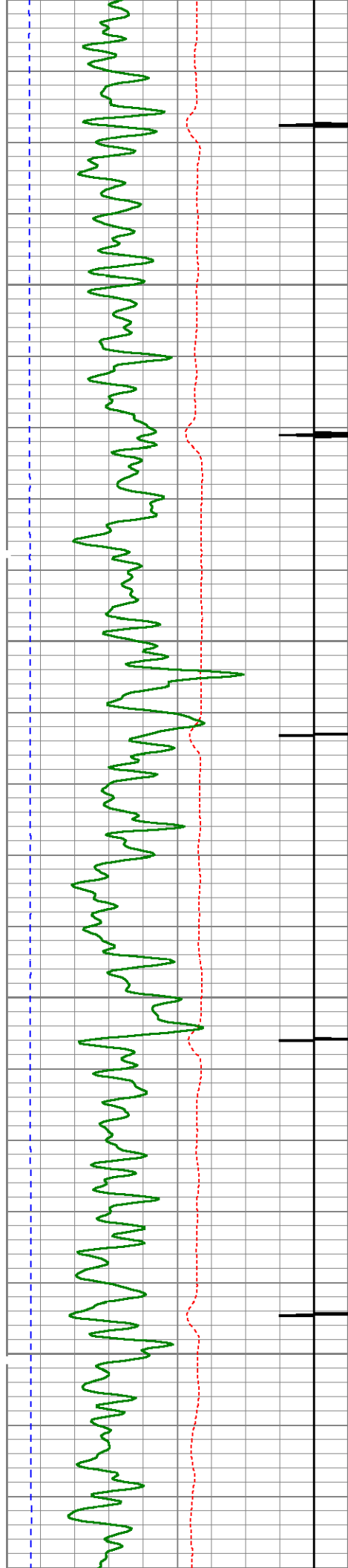
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950

1000

1050



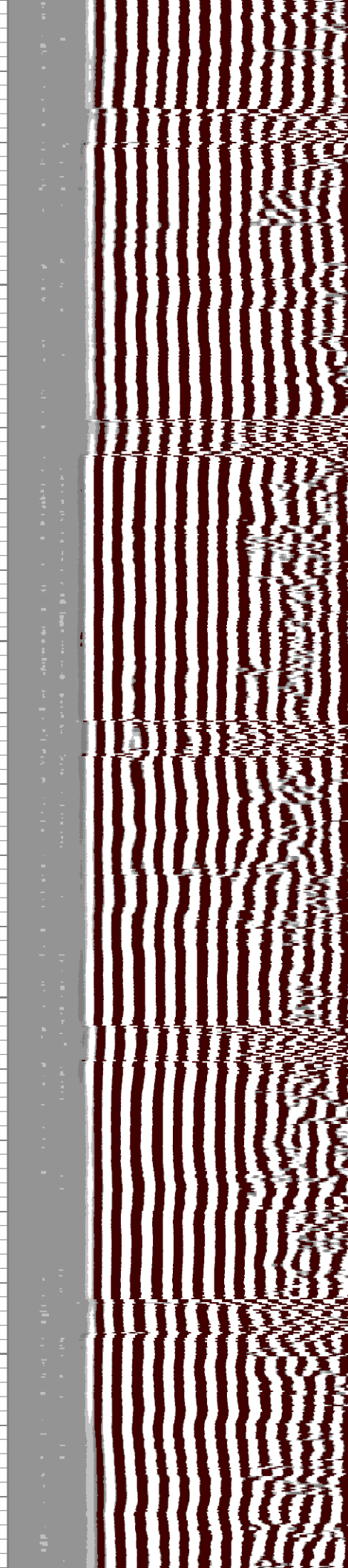
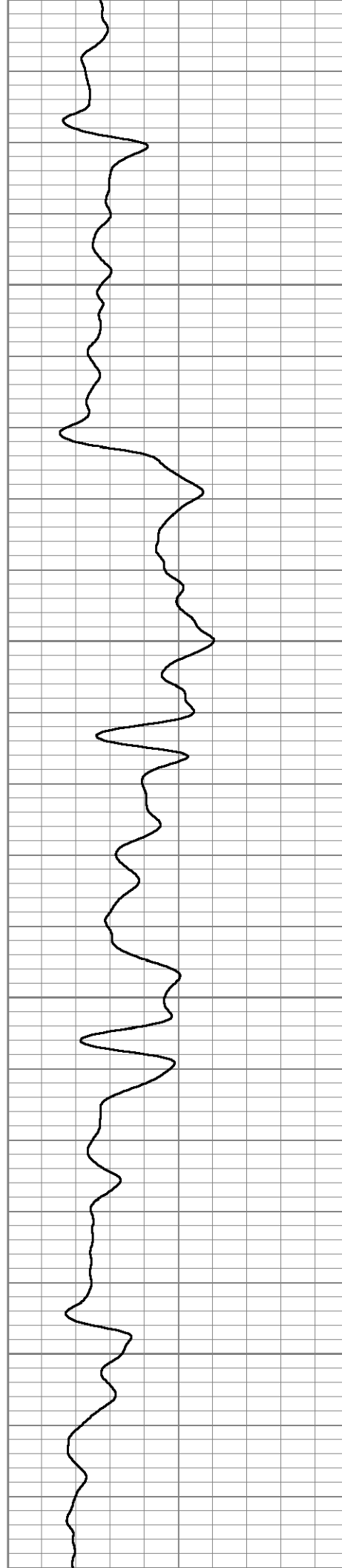


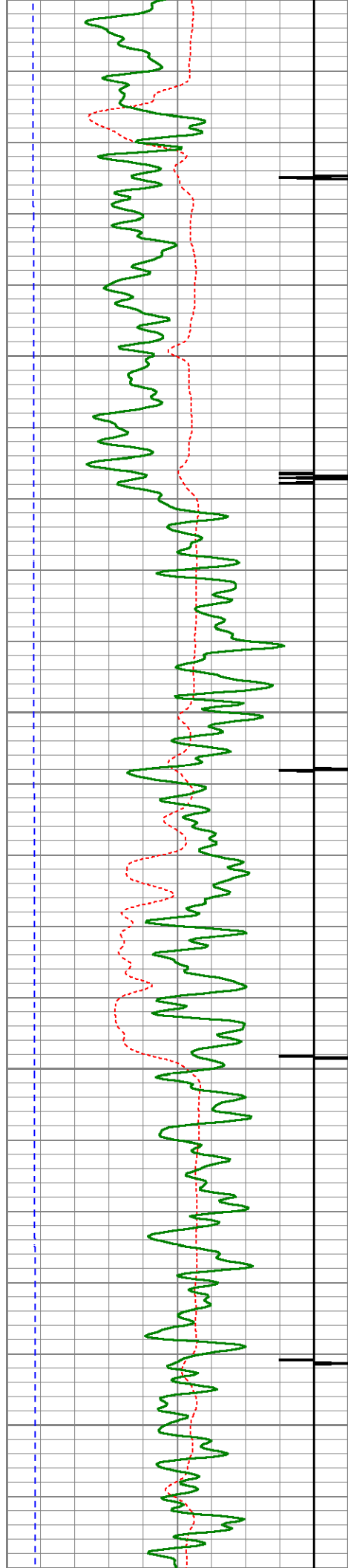
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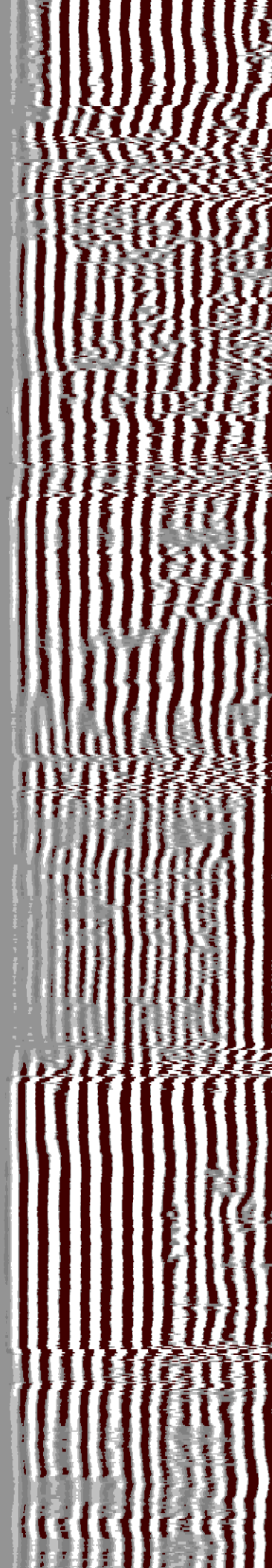
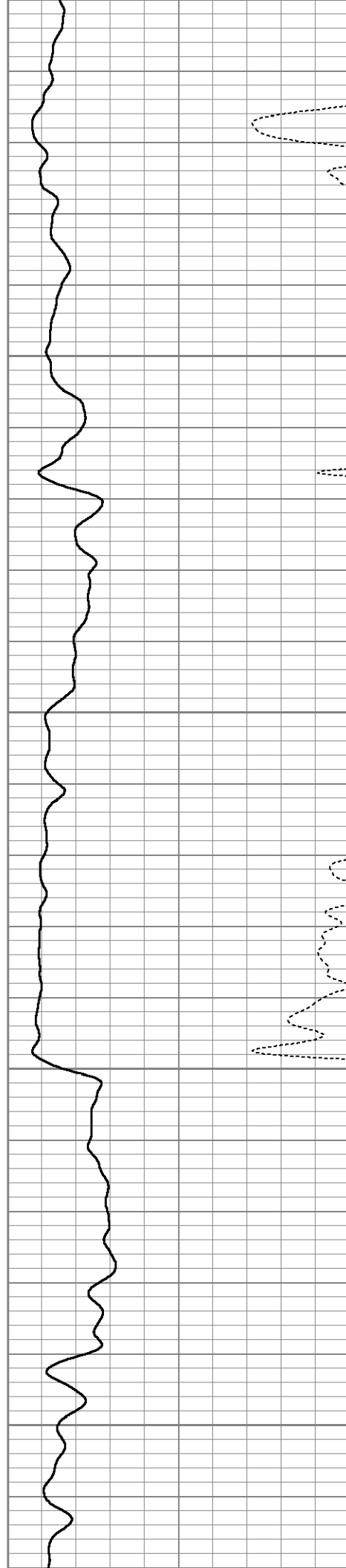
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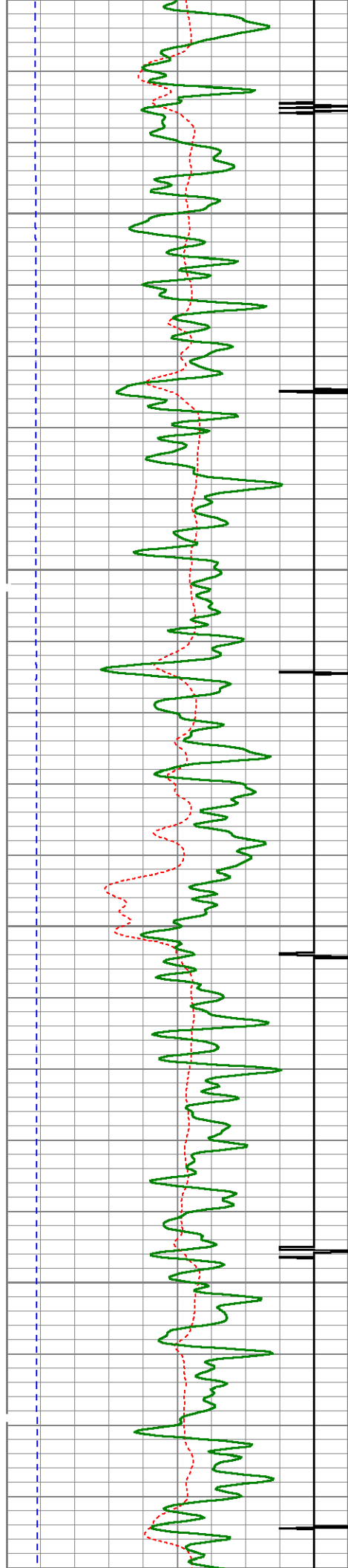
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1500
1550
1600
1650
1700



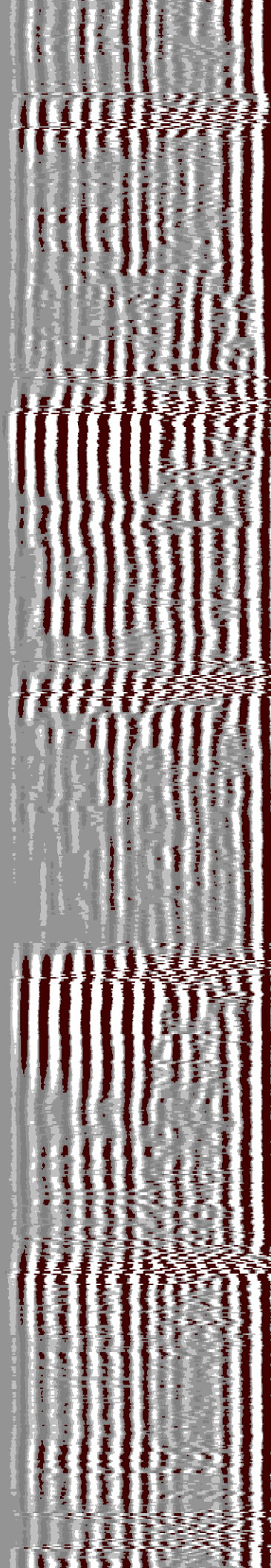
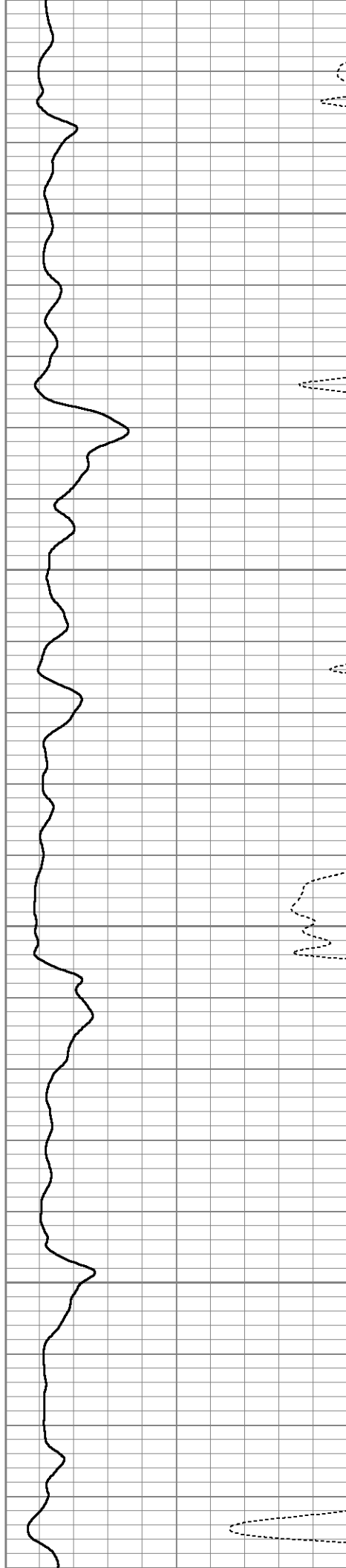


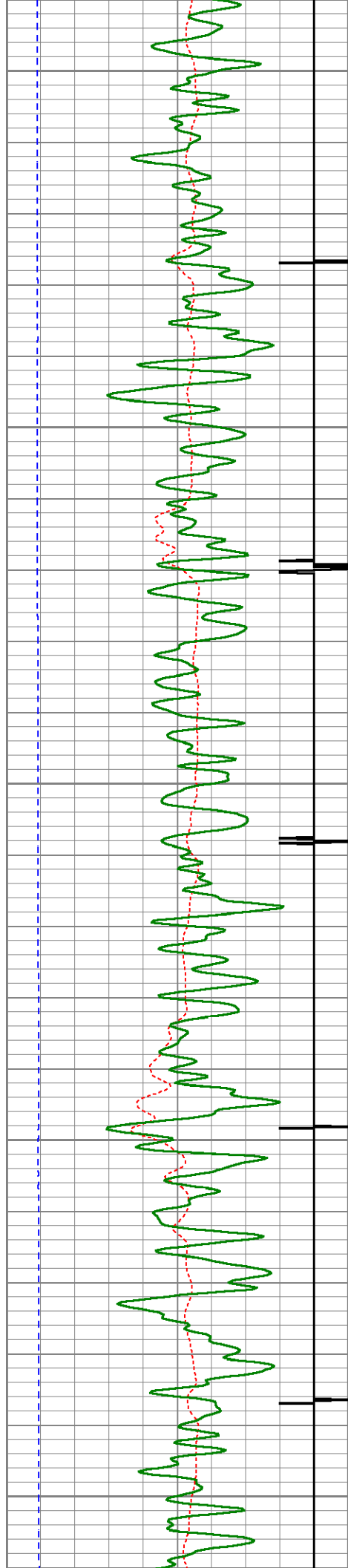
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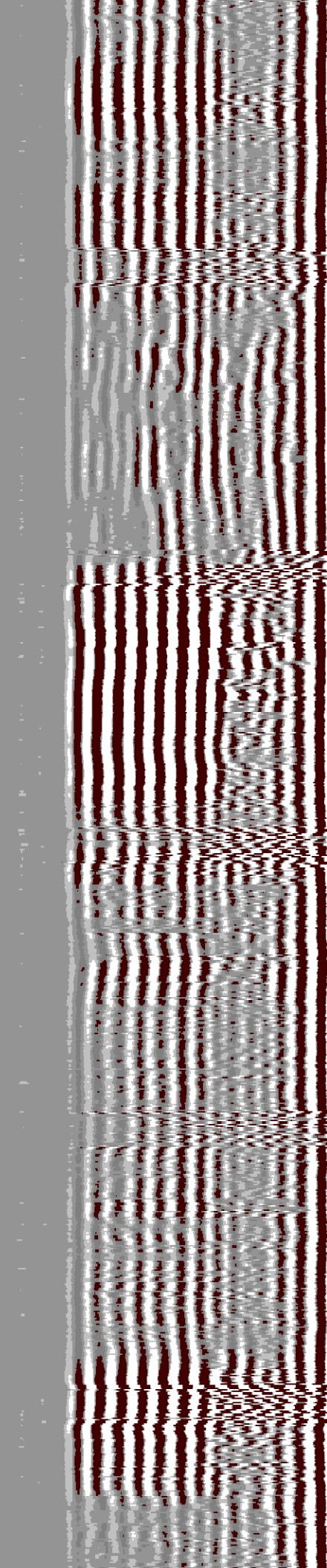
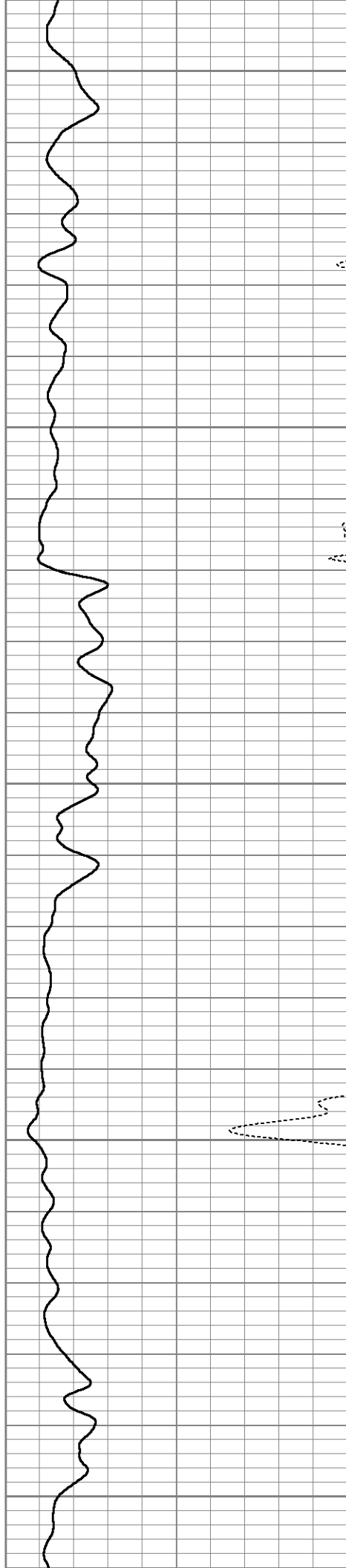
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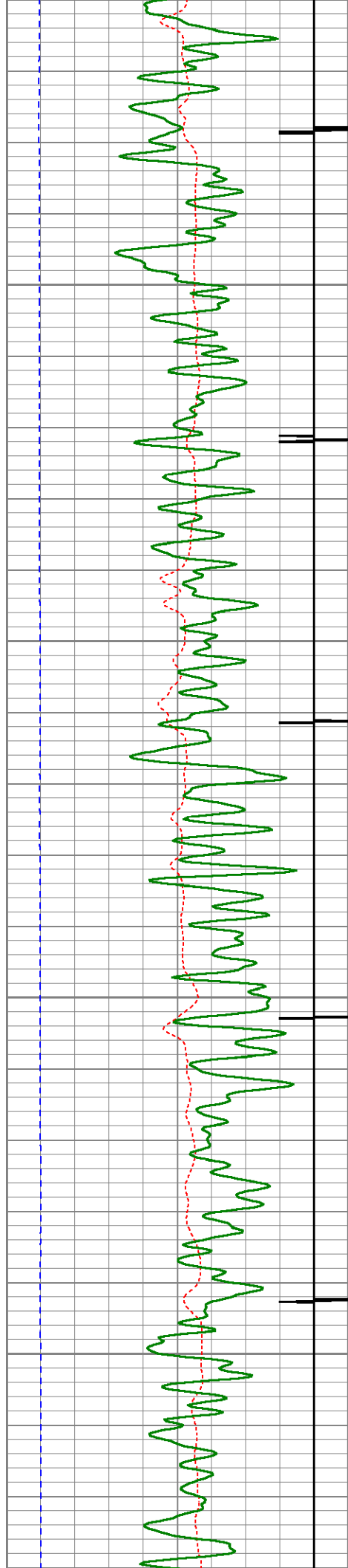
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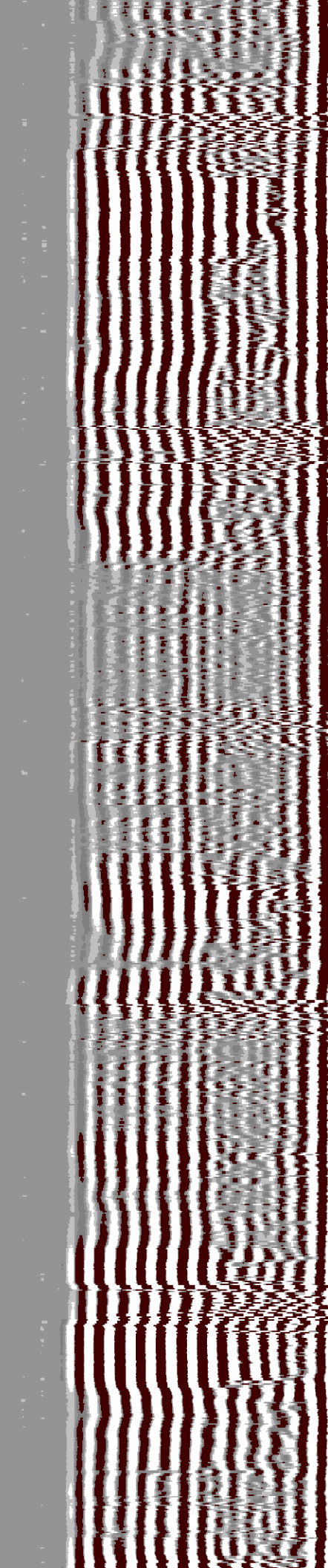
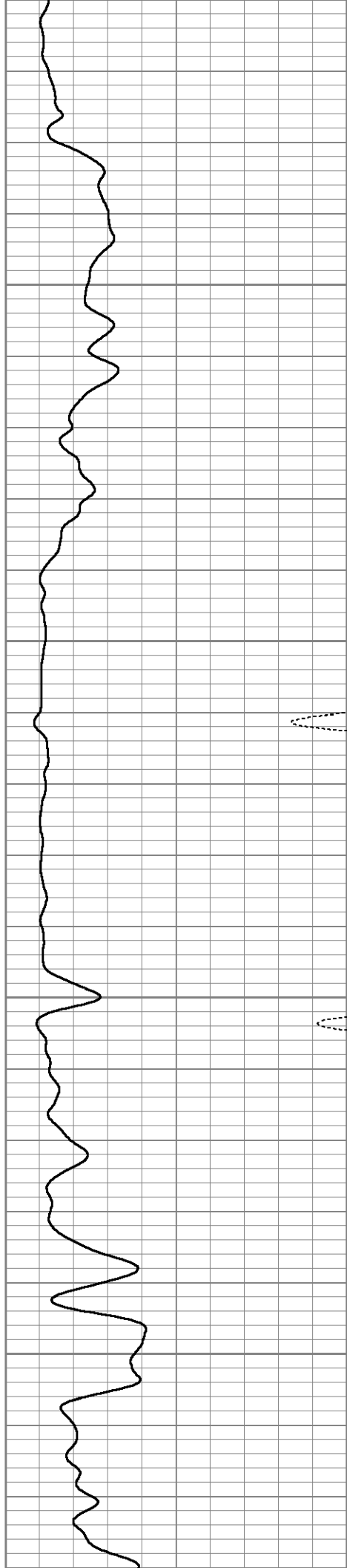


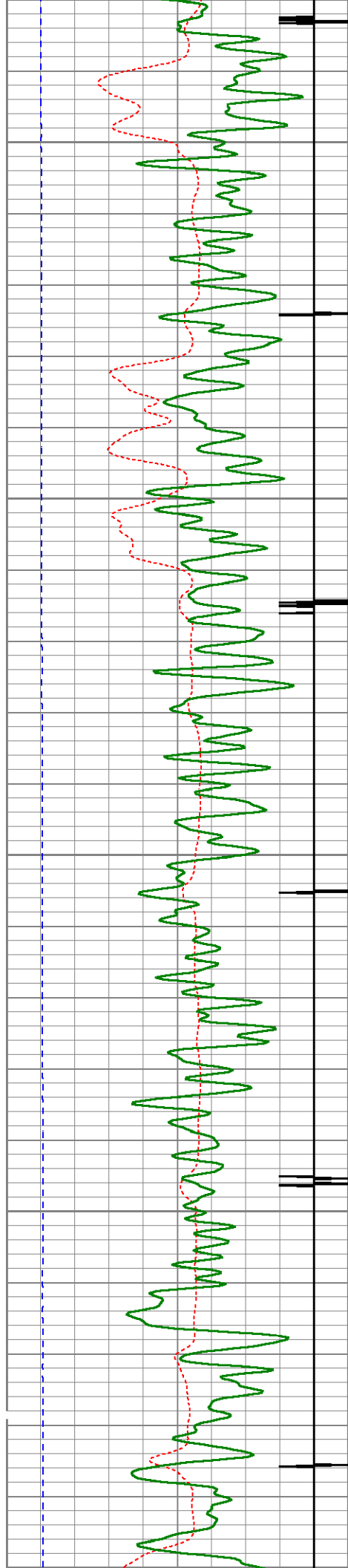
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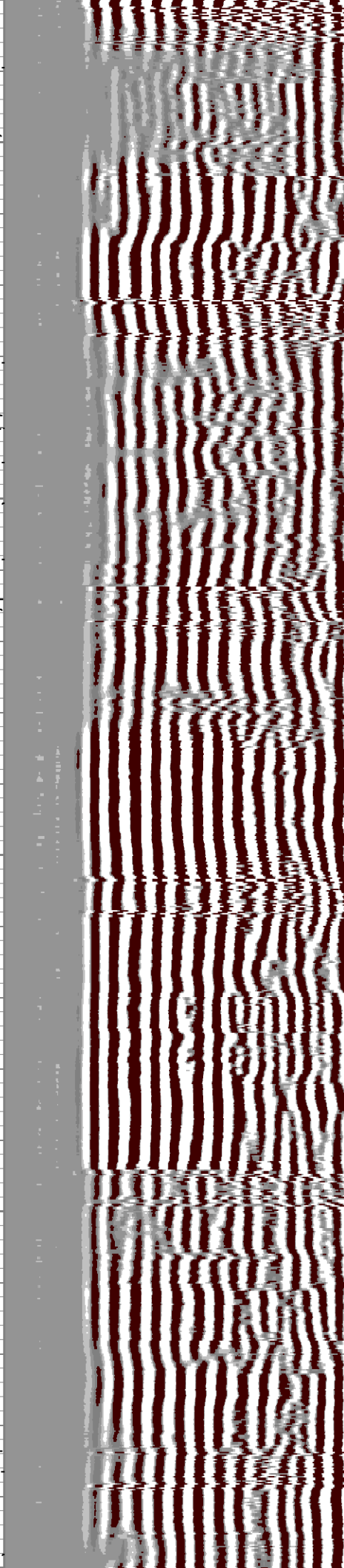
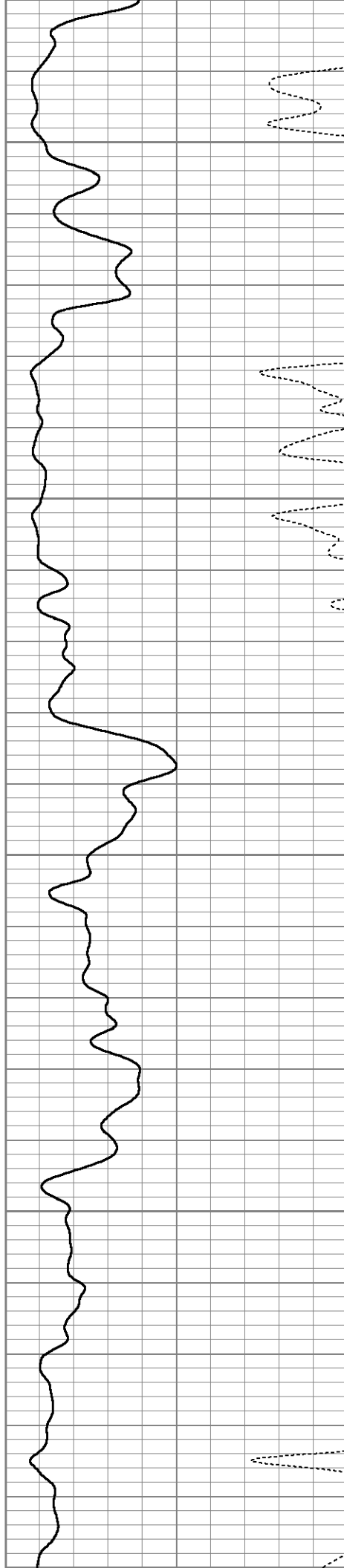
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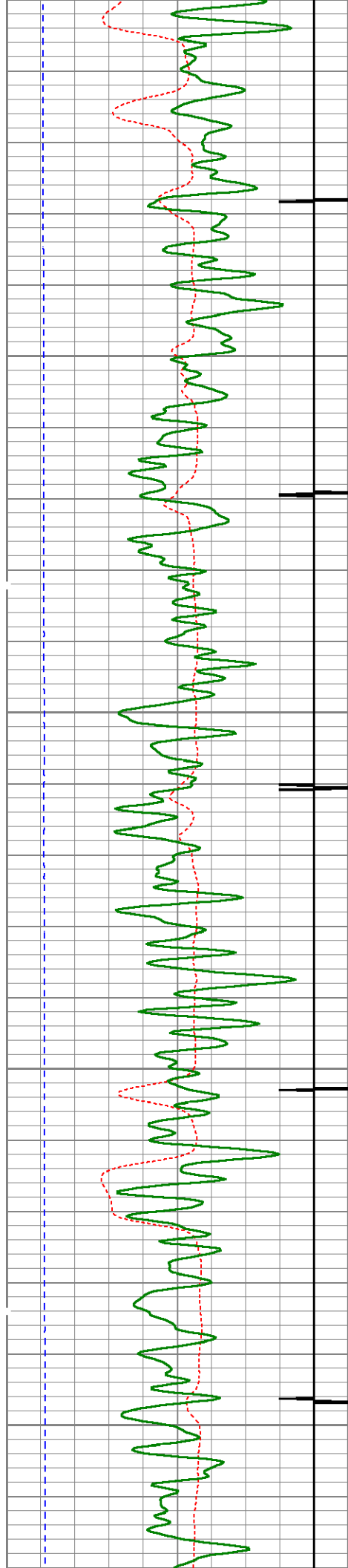
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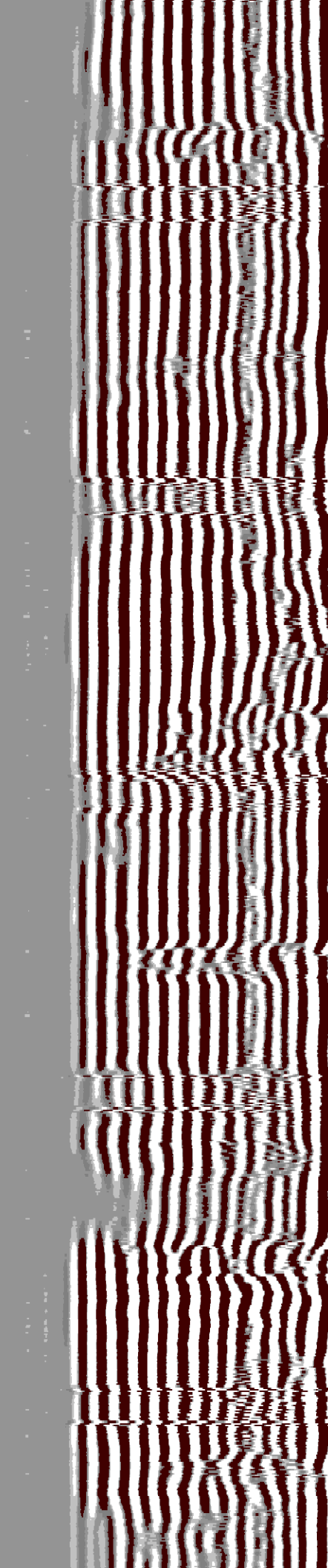
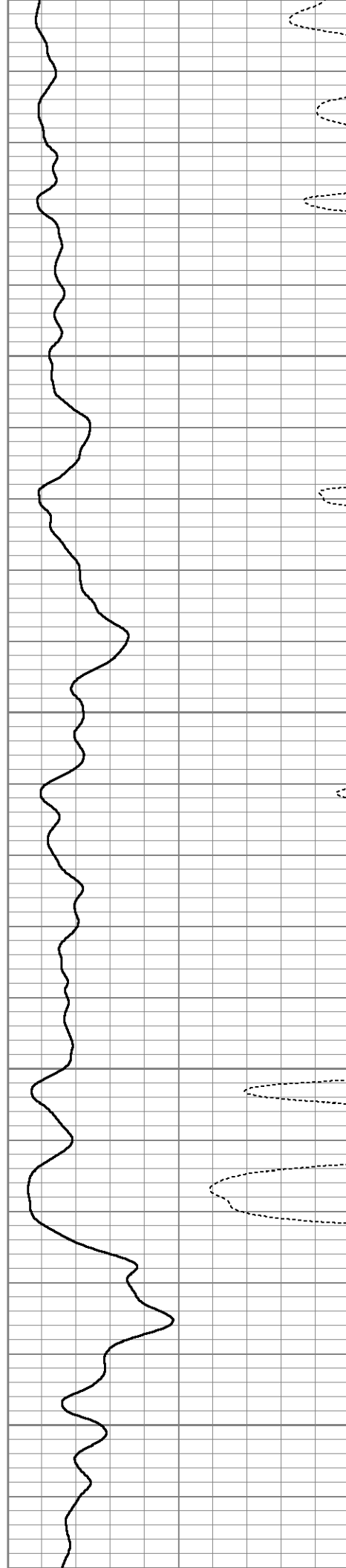
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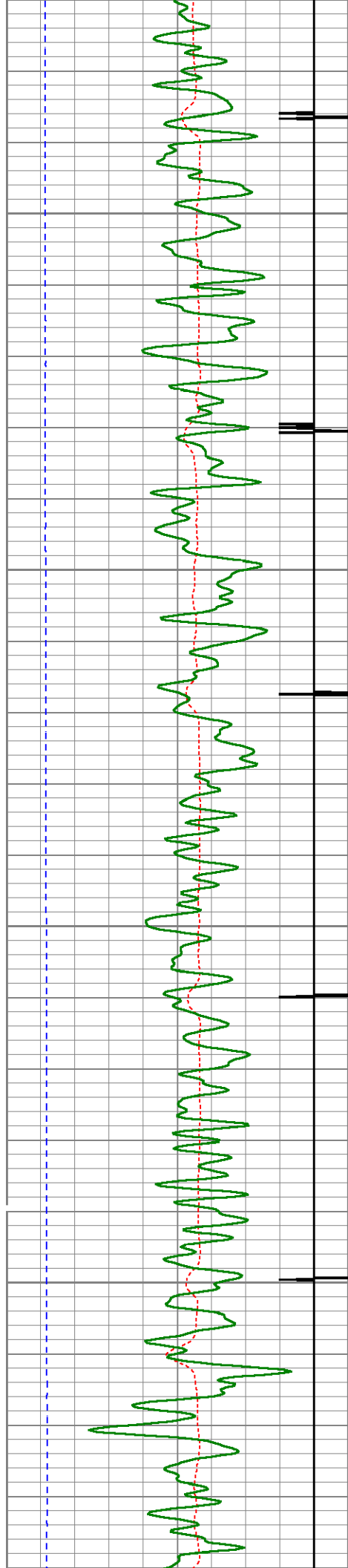
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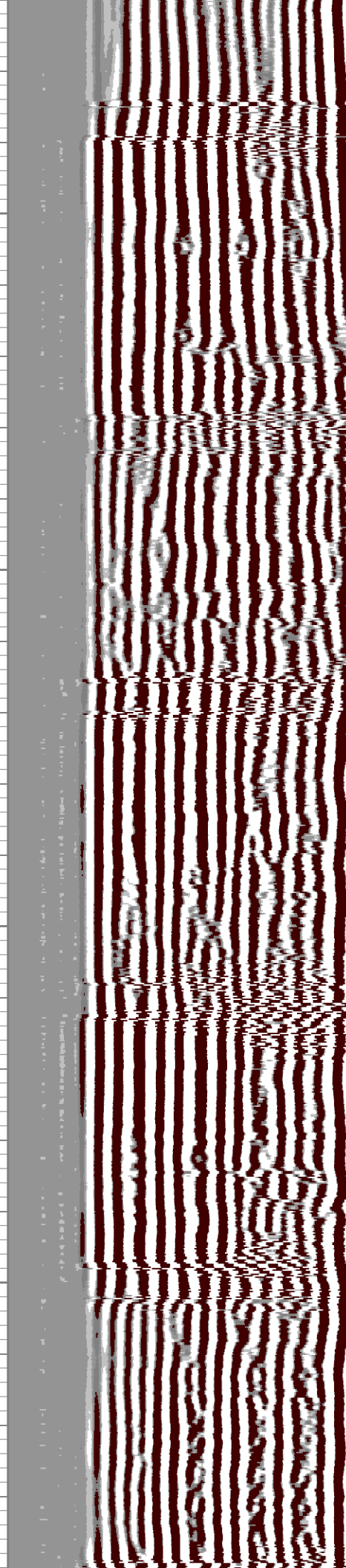
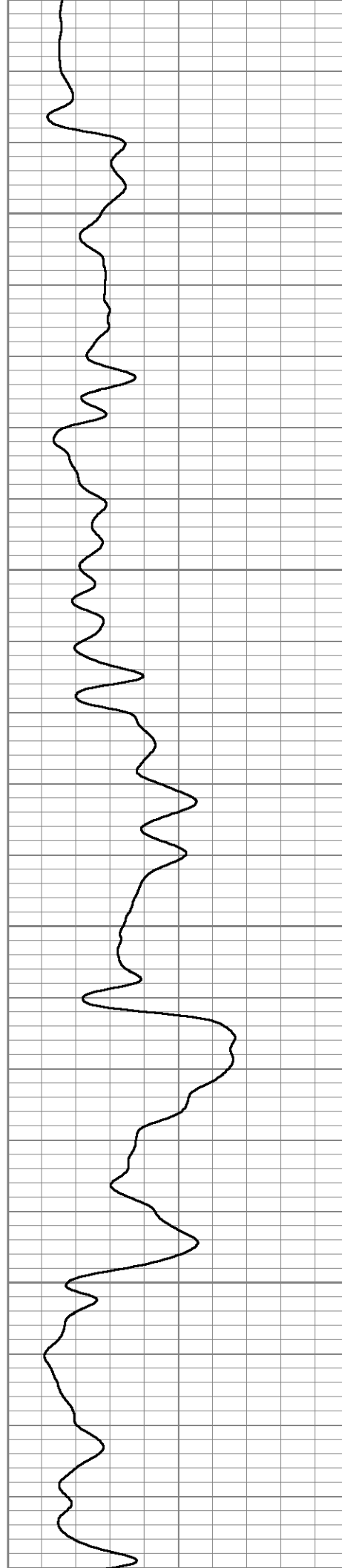


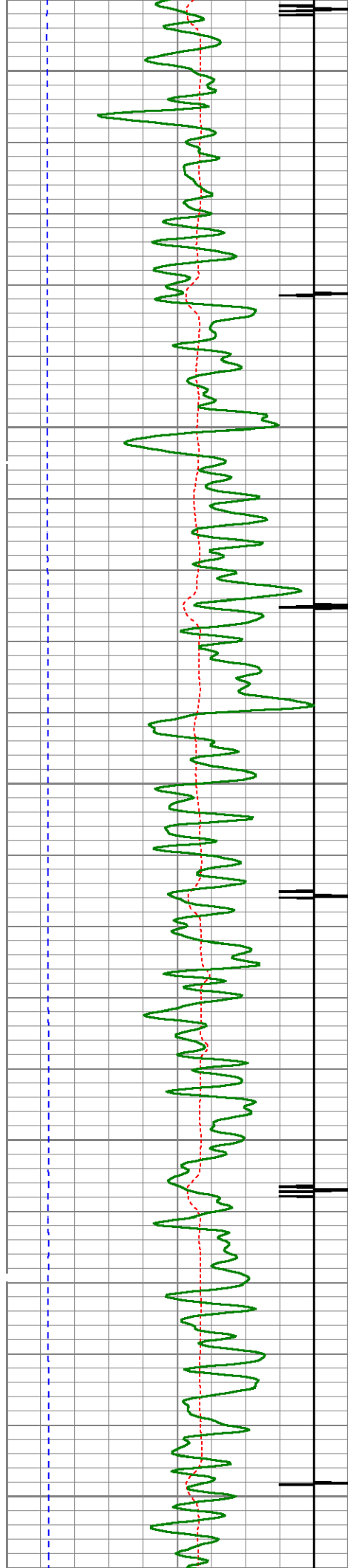
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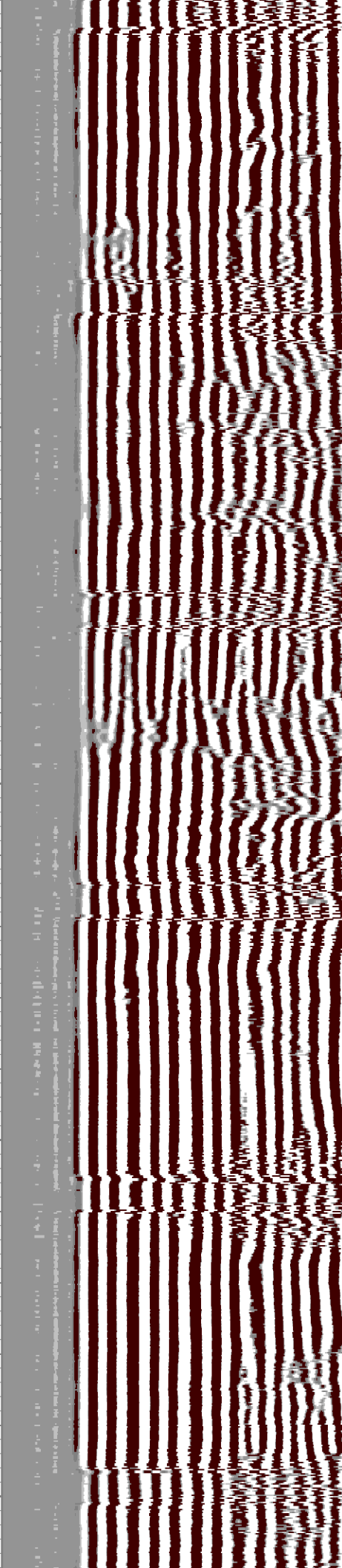
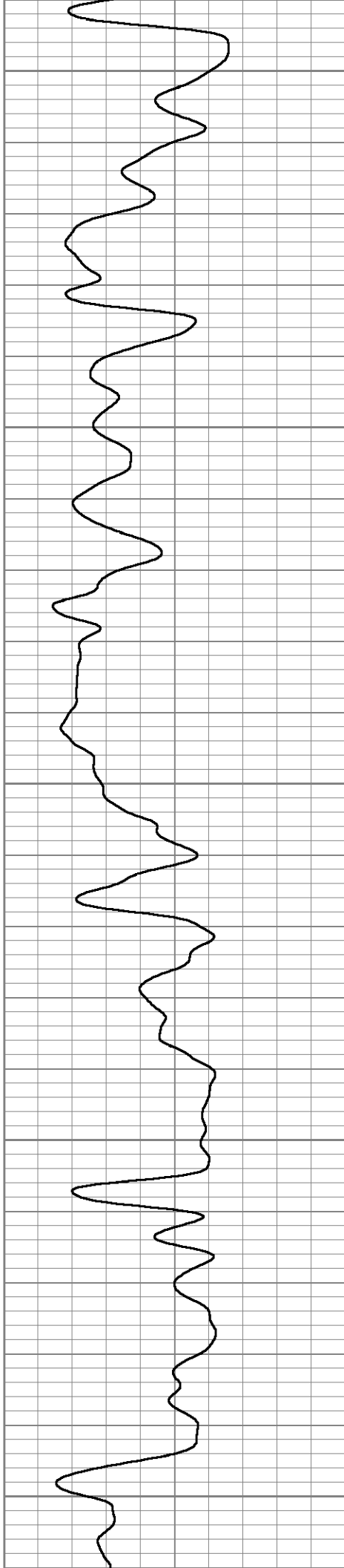
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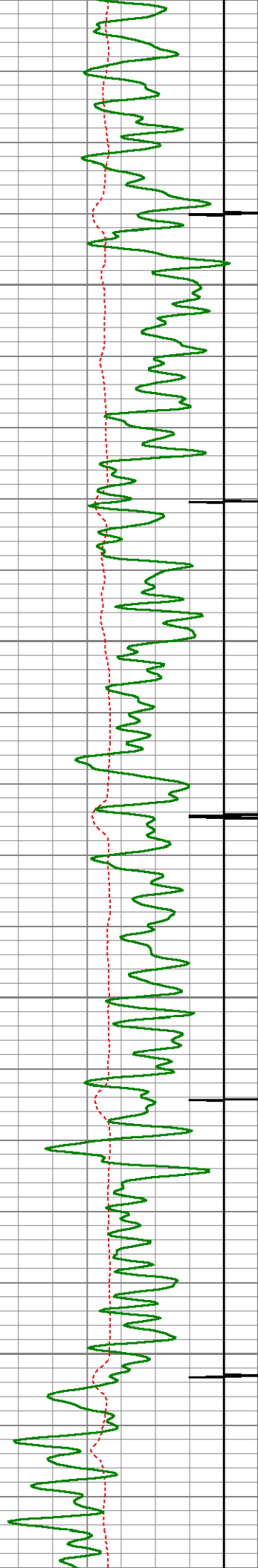
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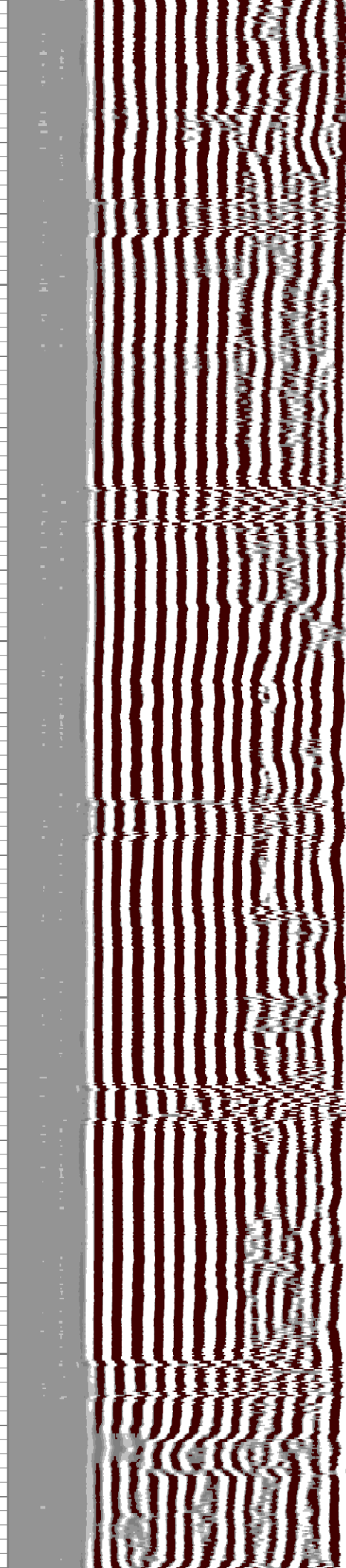
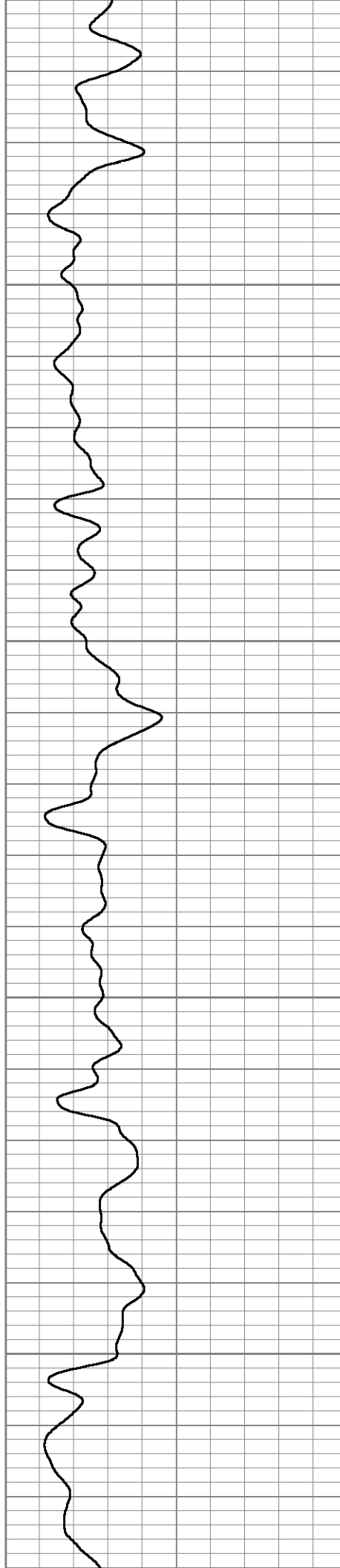


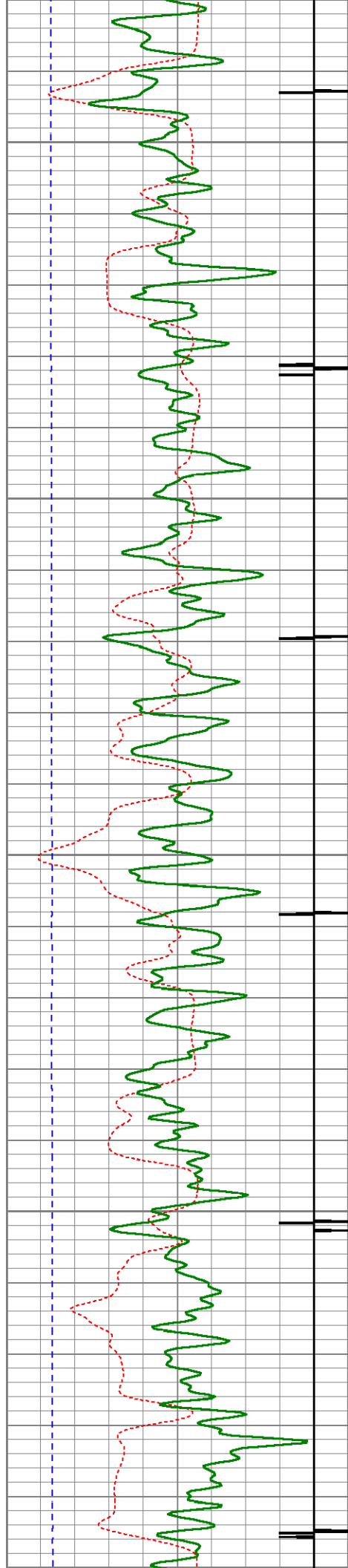
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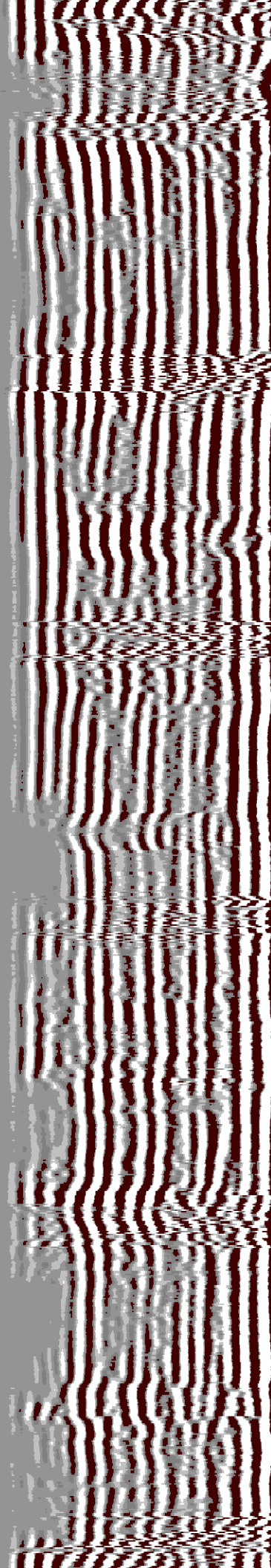
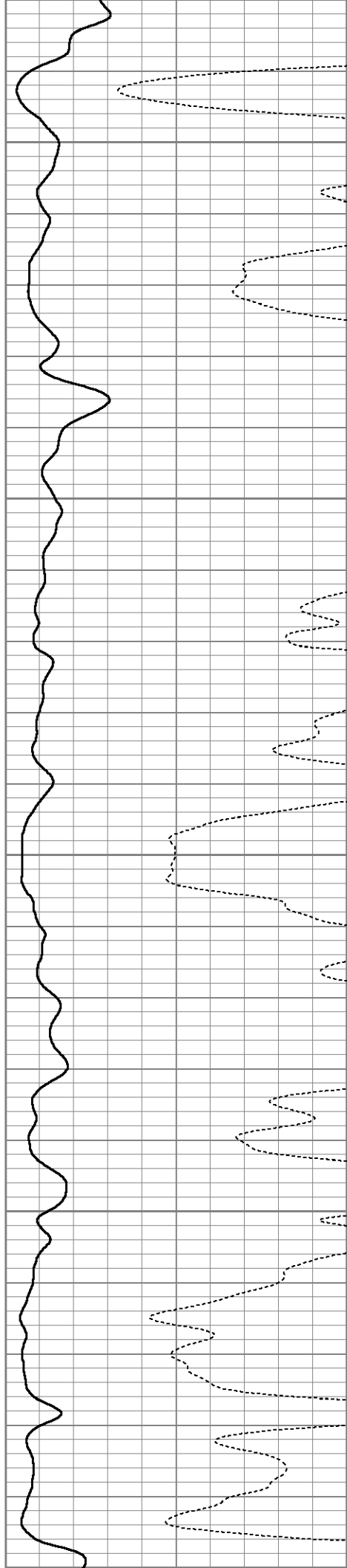
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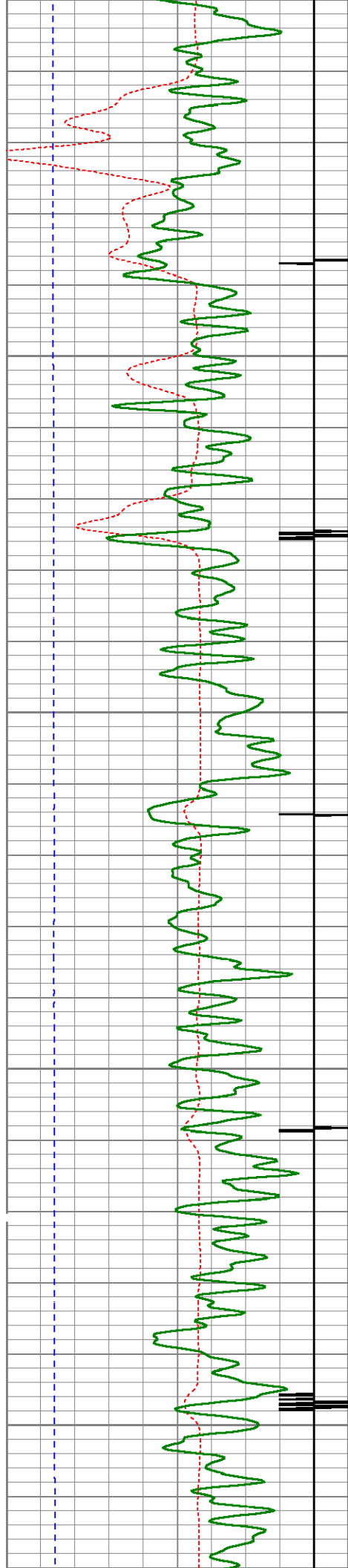
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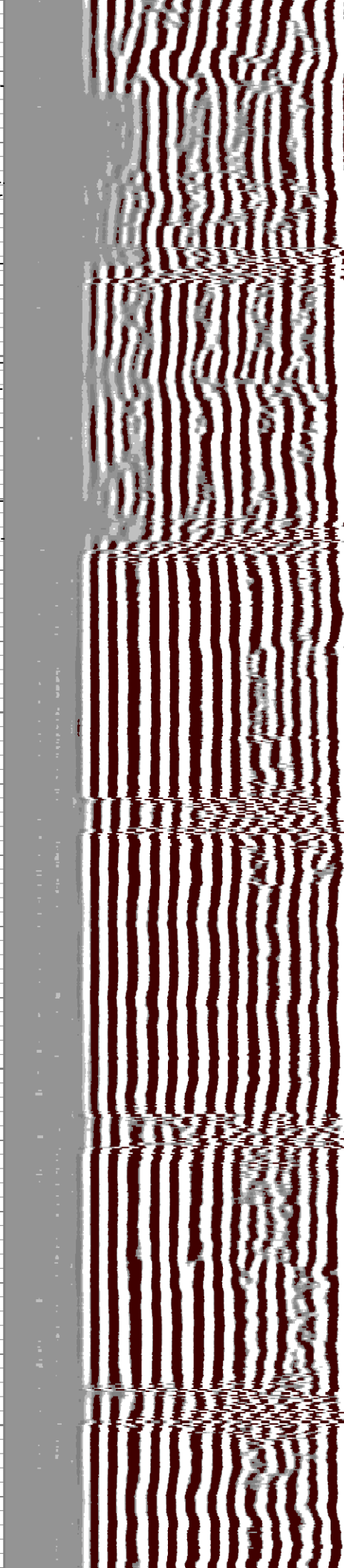
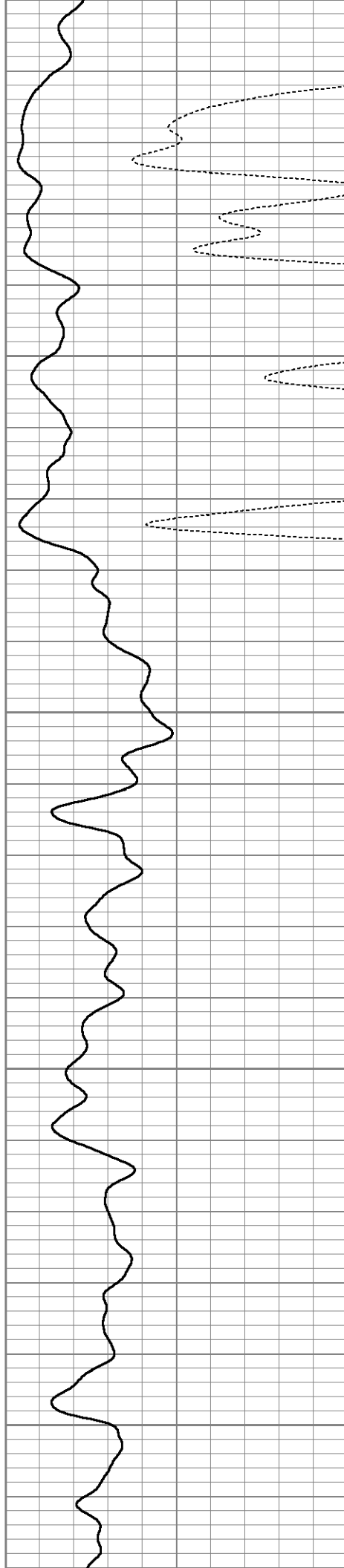
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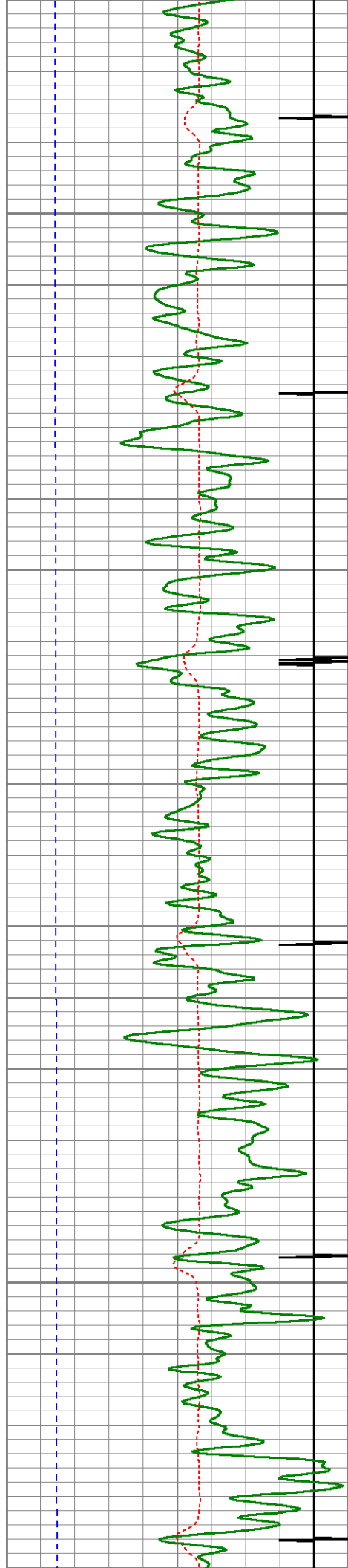
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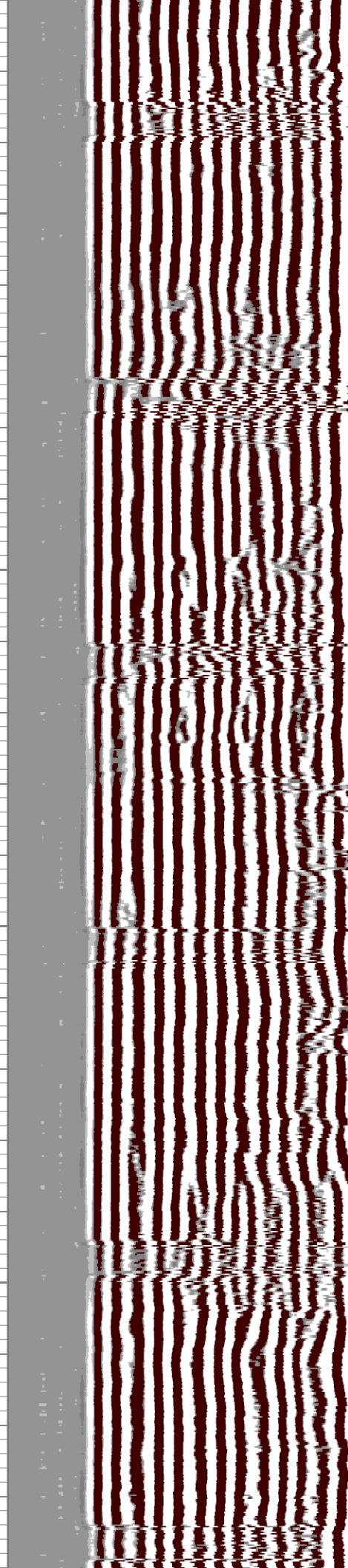
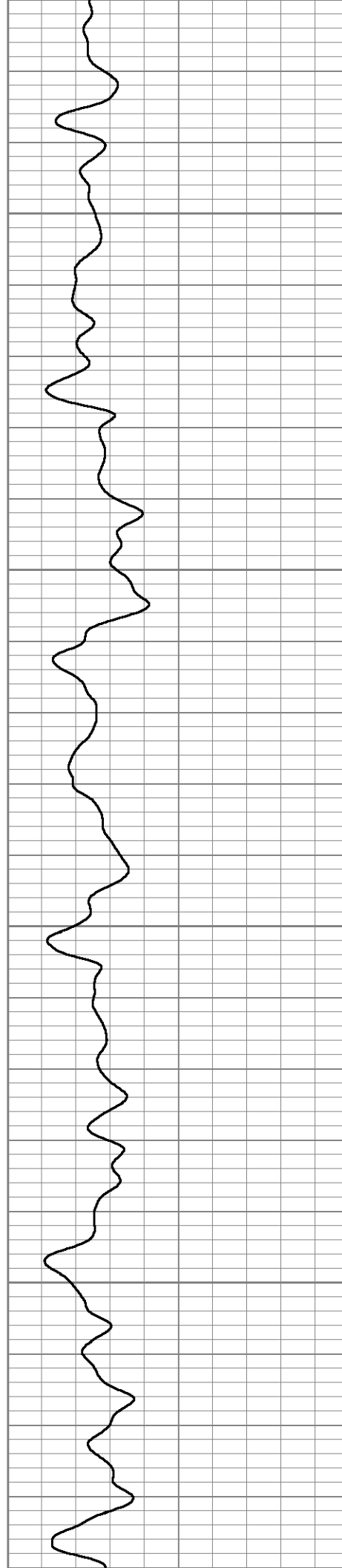


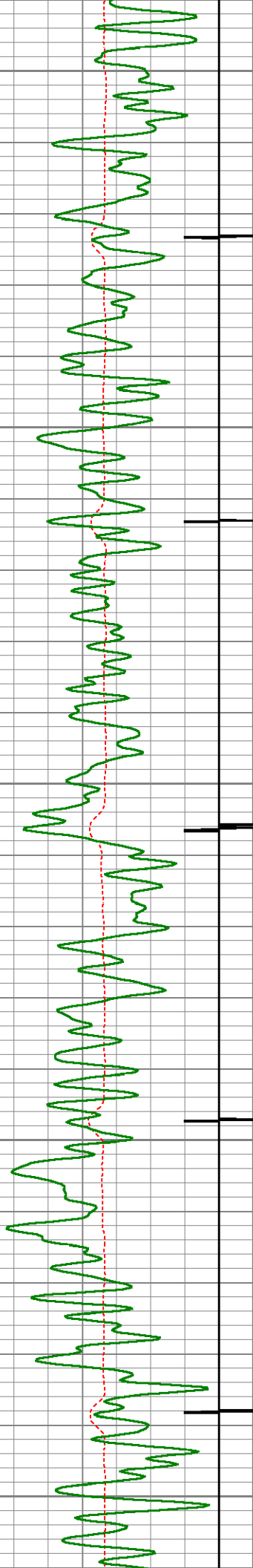
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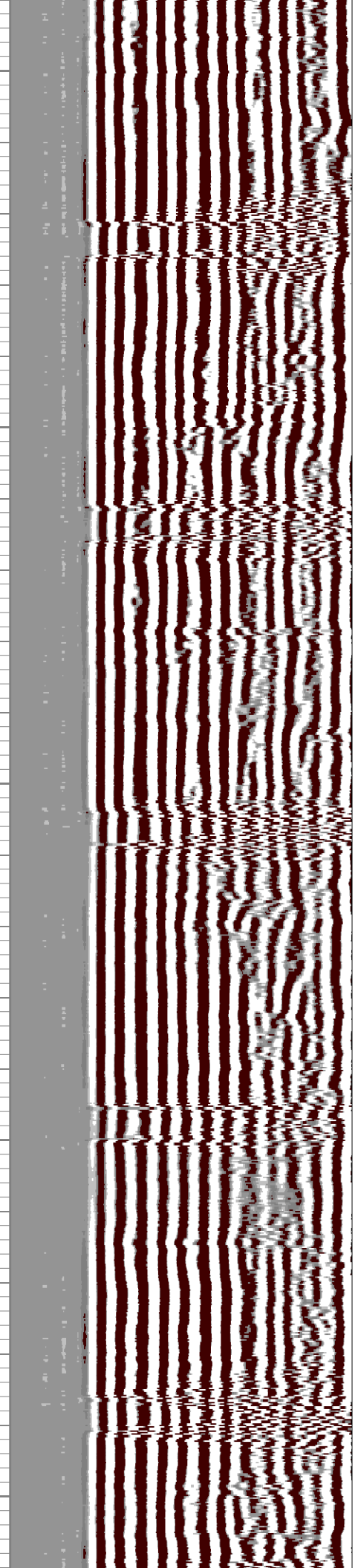
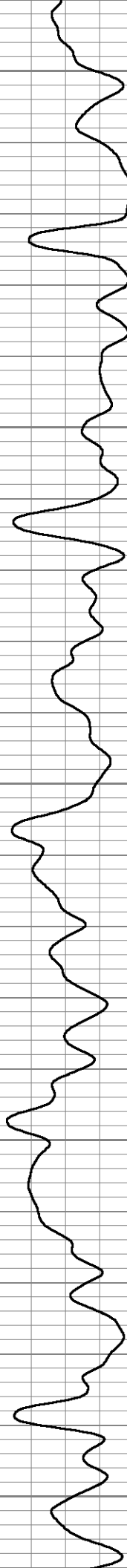
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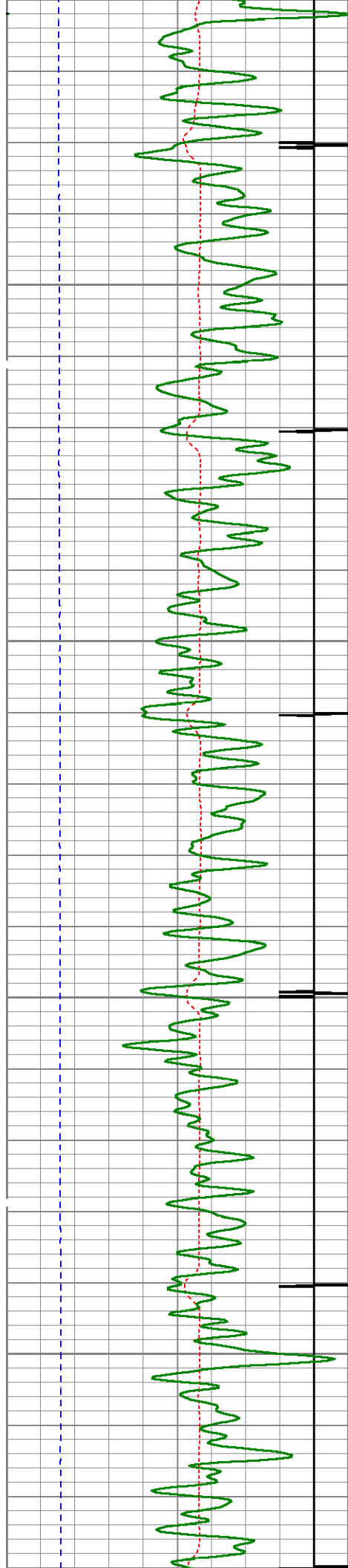
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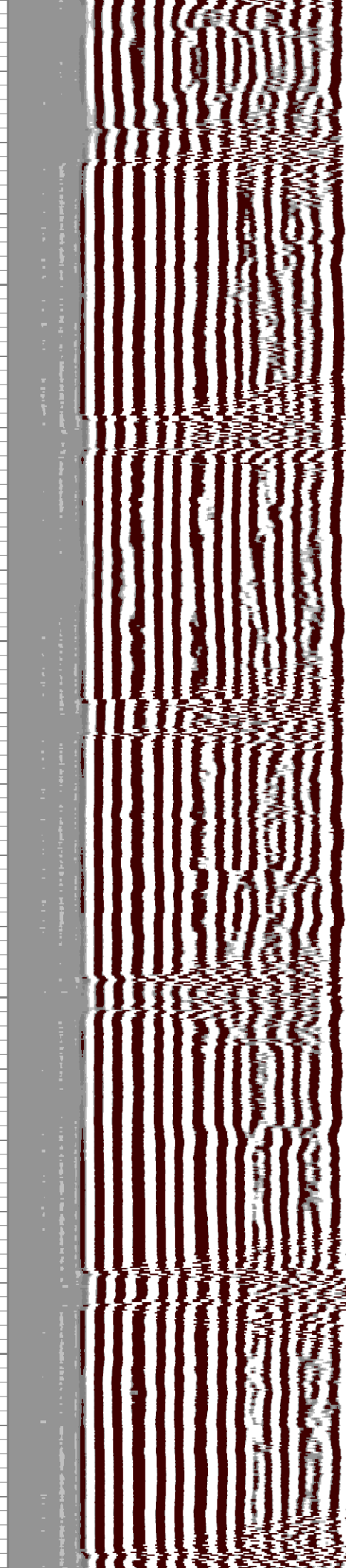
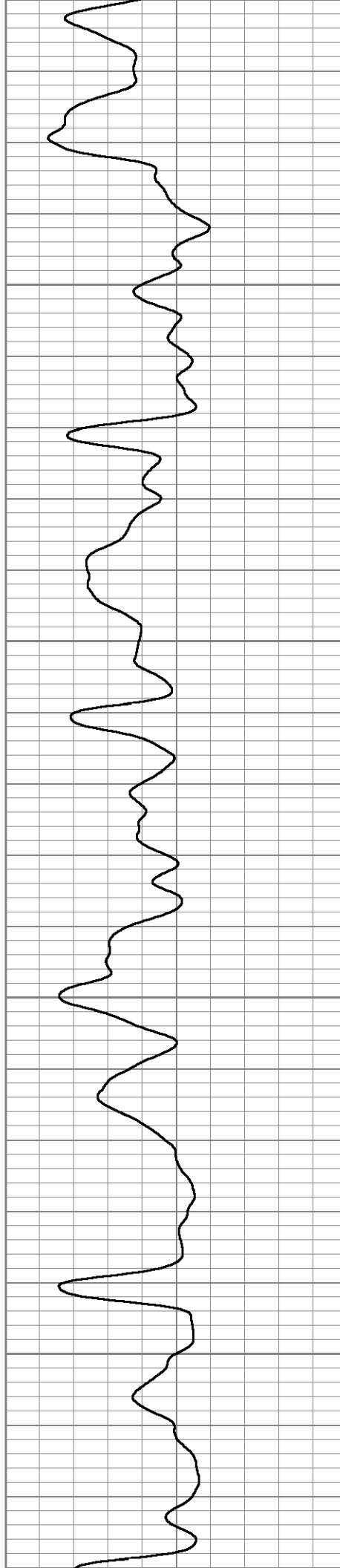


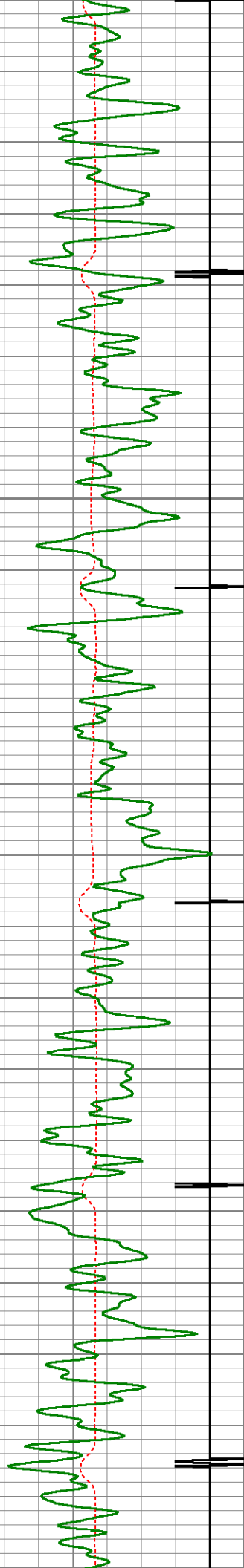
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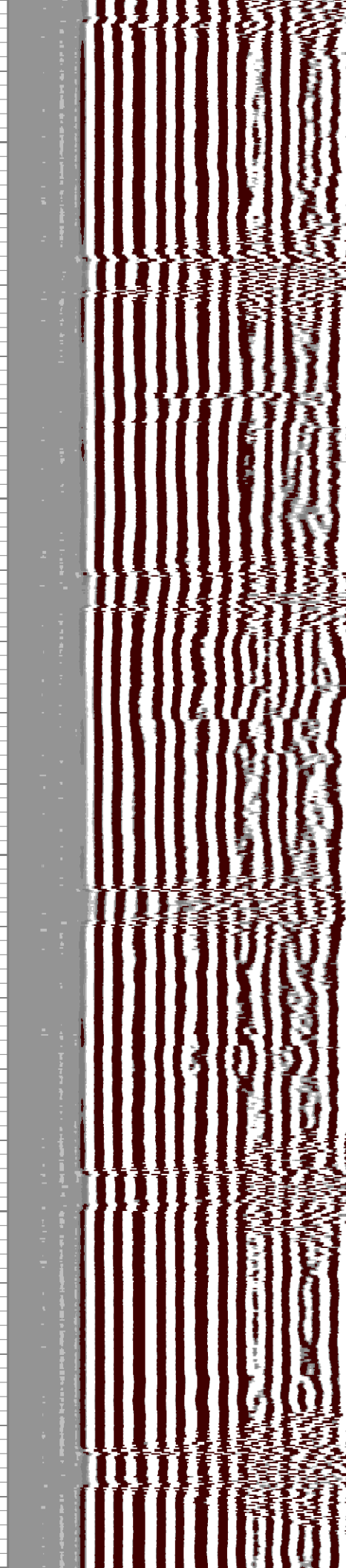
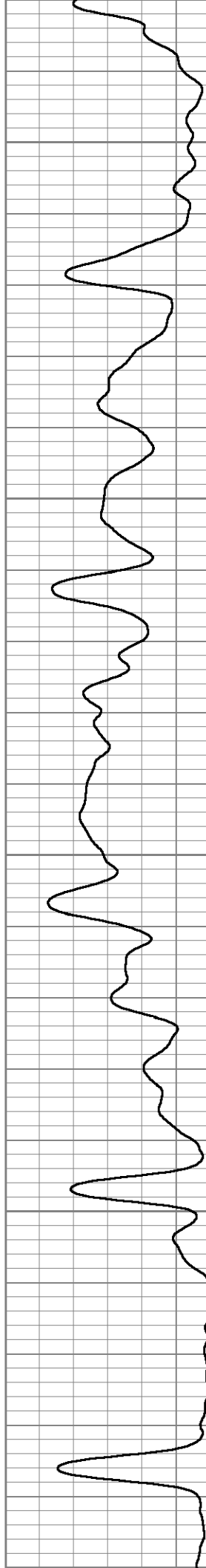
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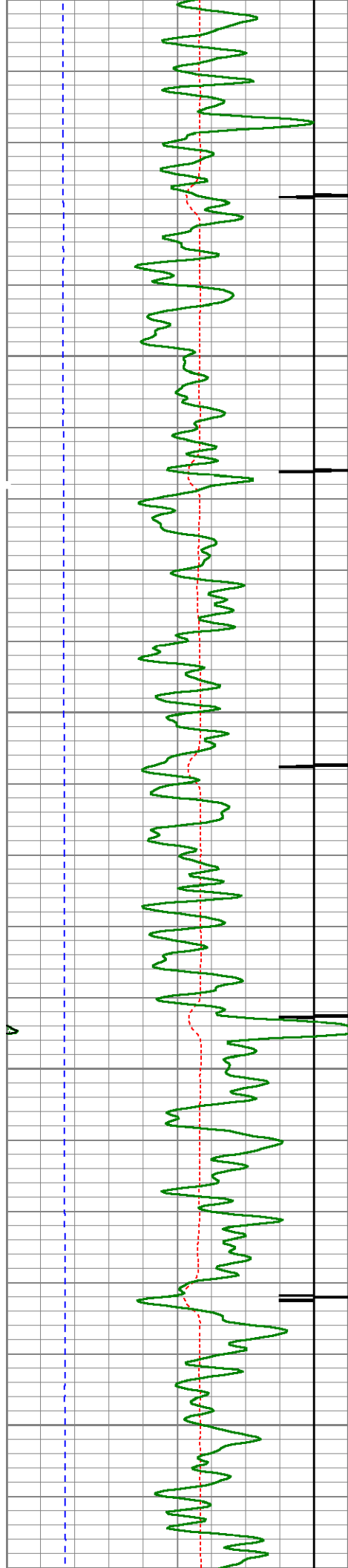
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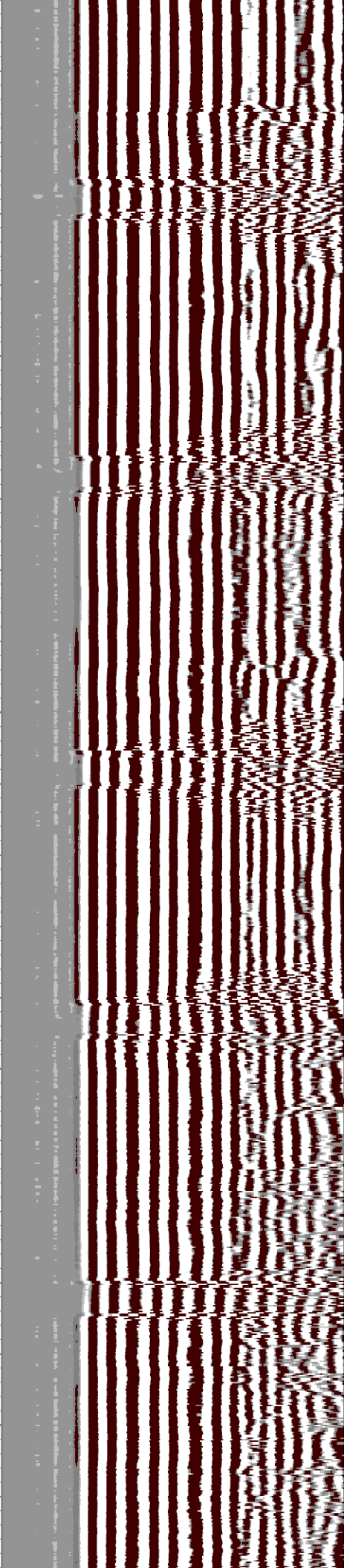
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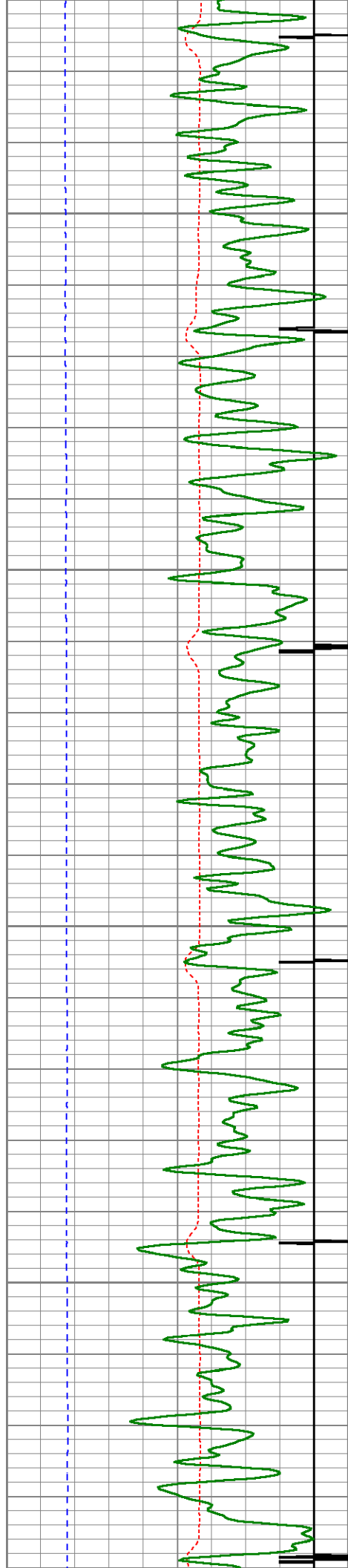
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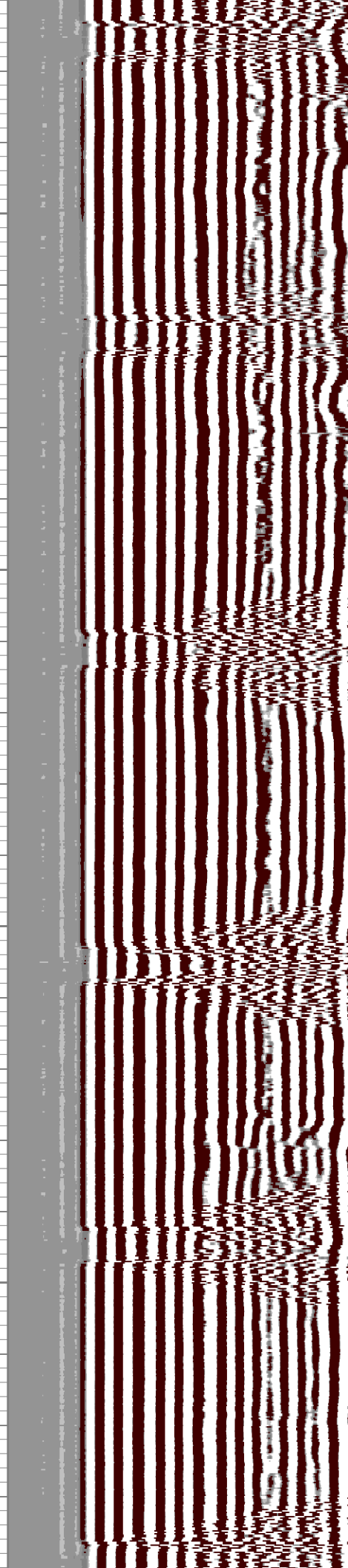
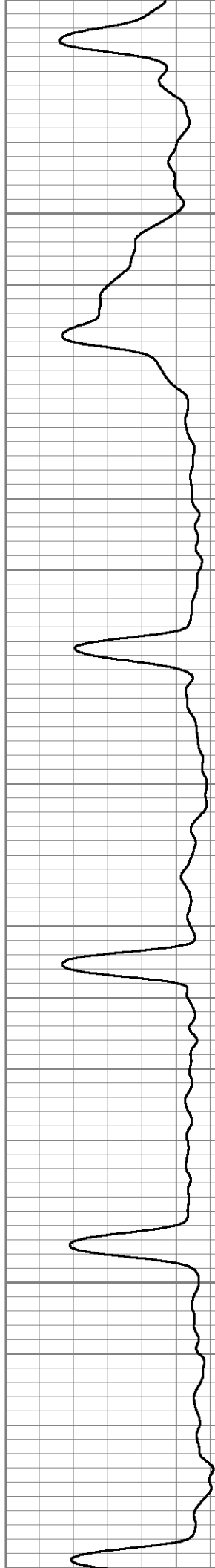


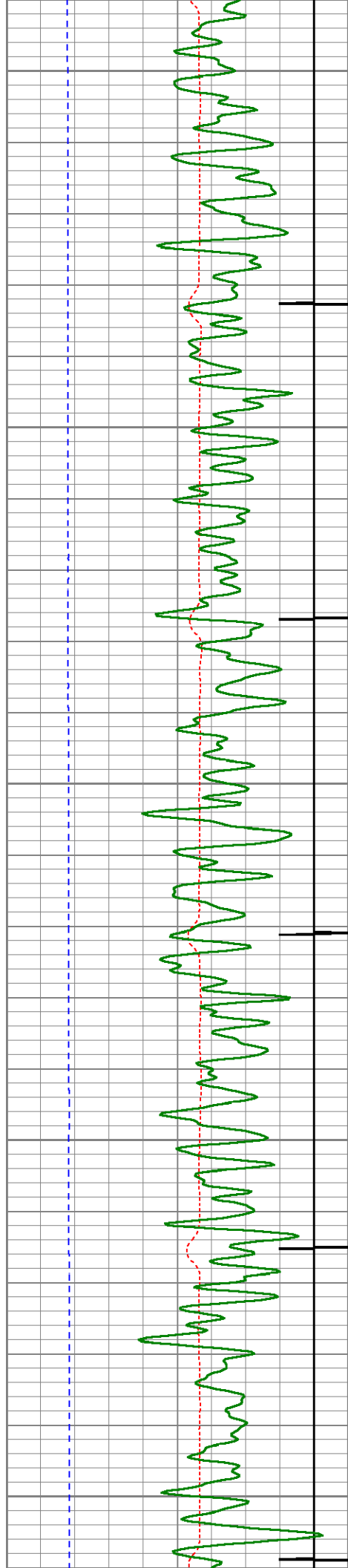
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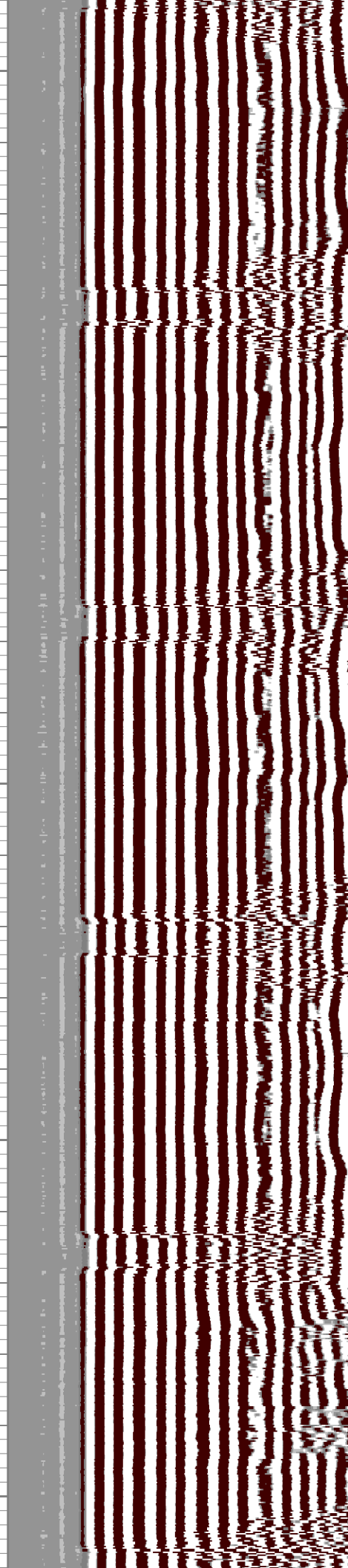
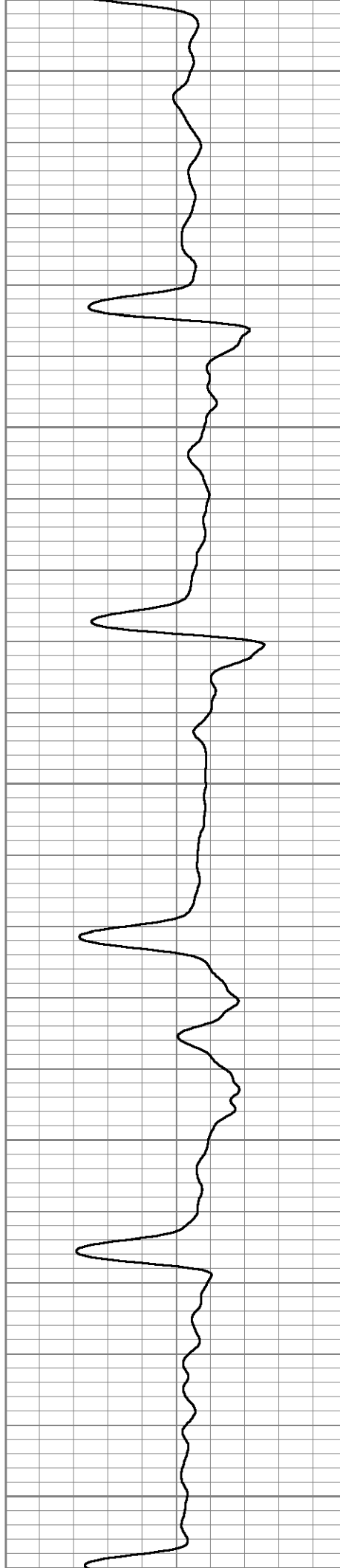
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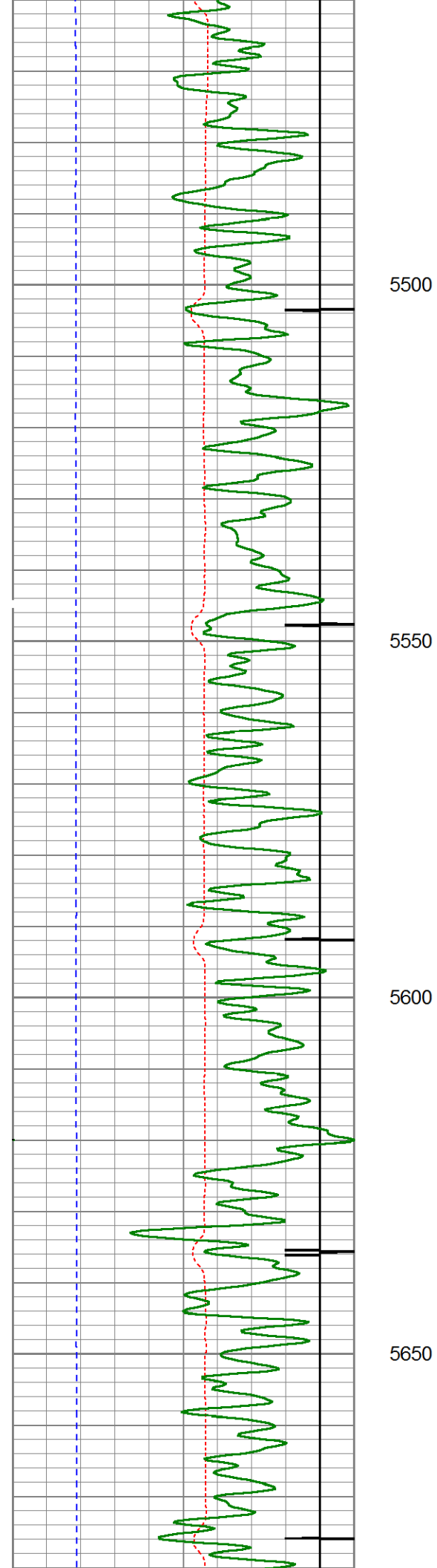
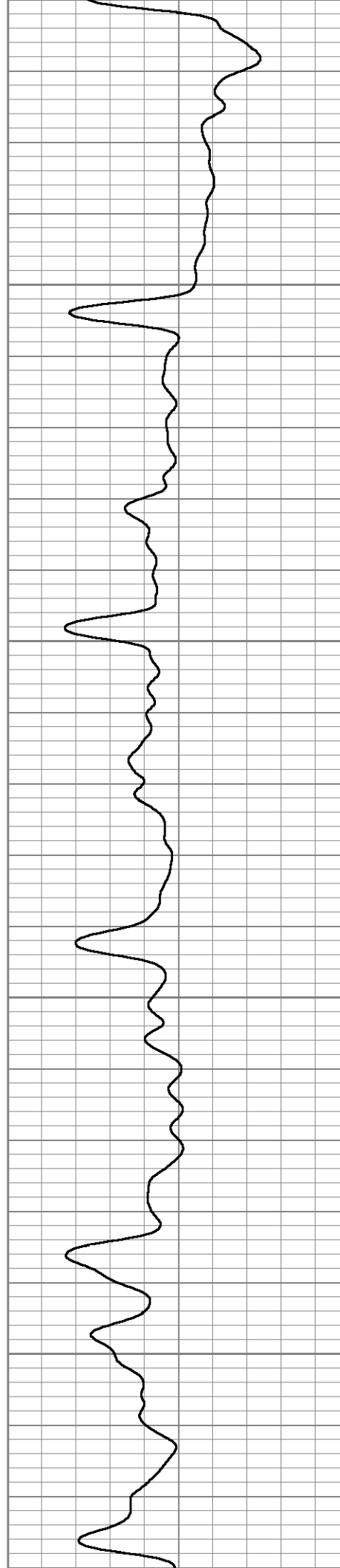
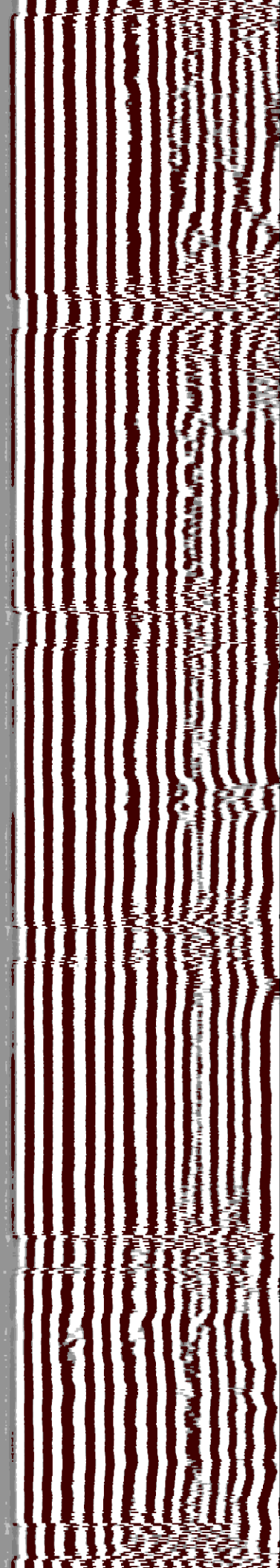
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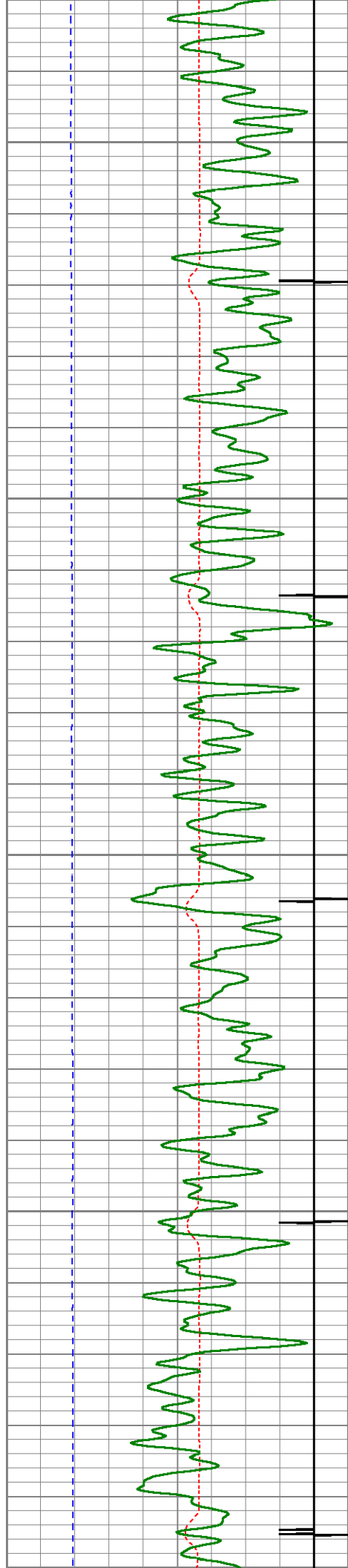
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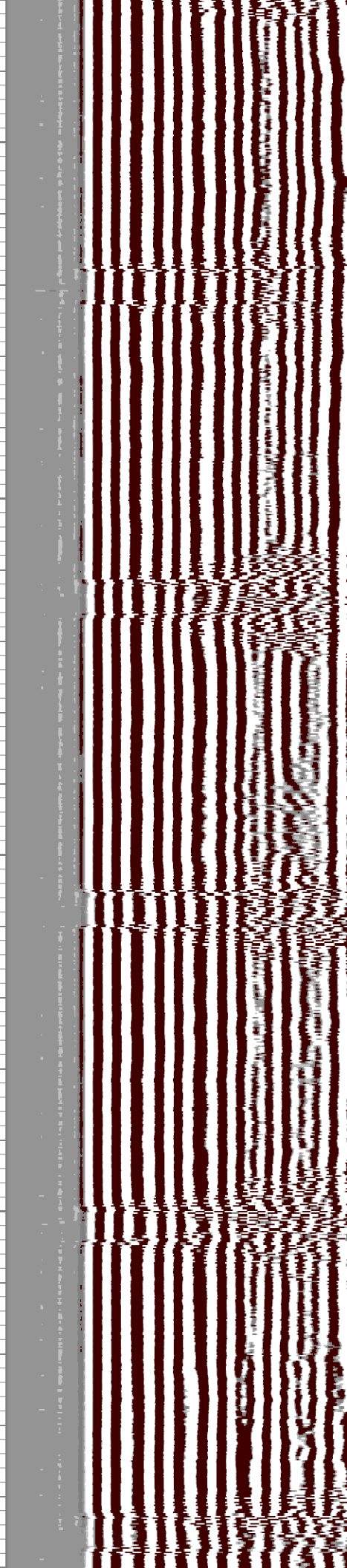
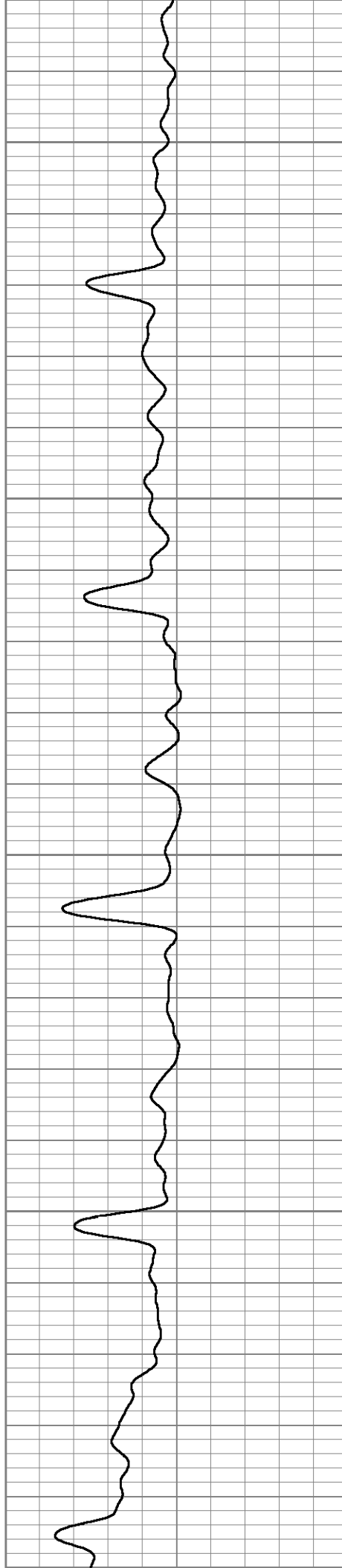
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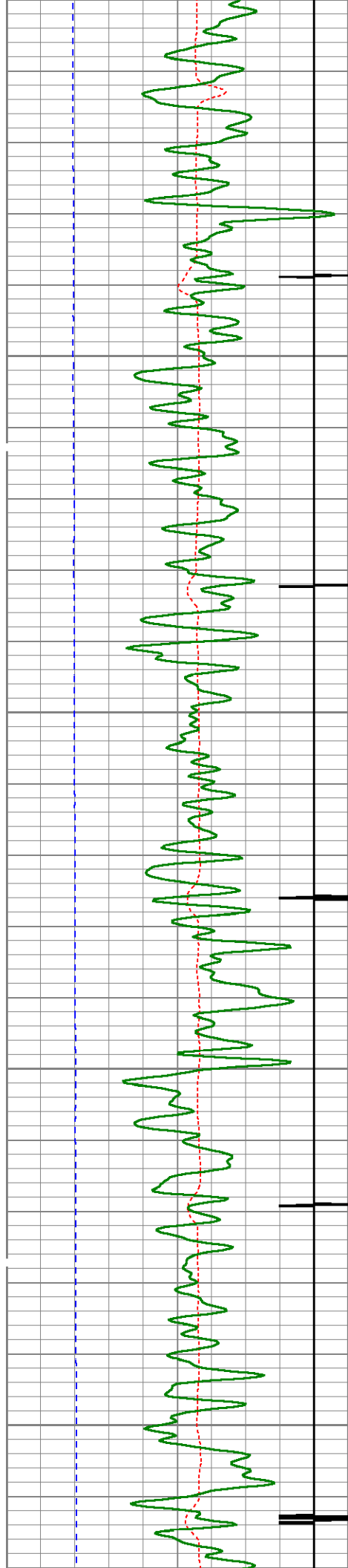
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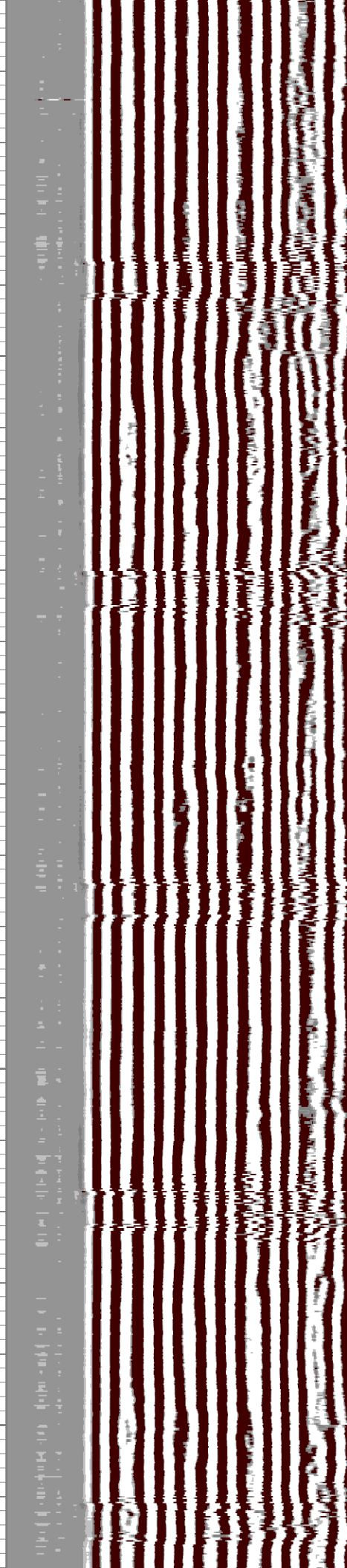
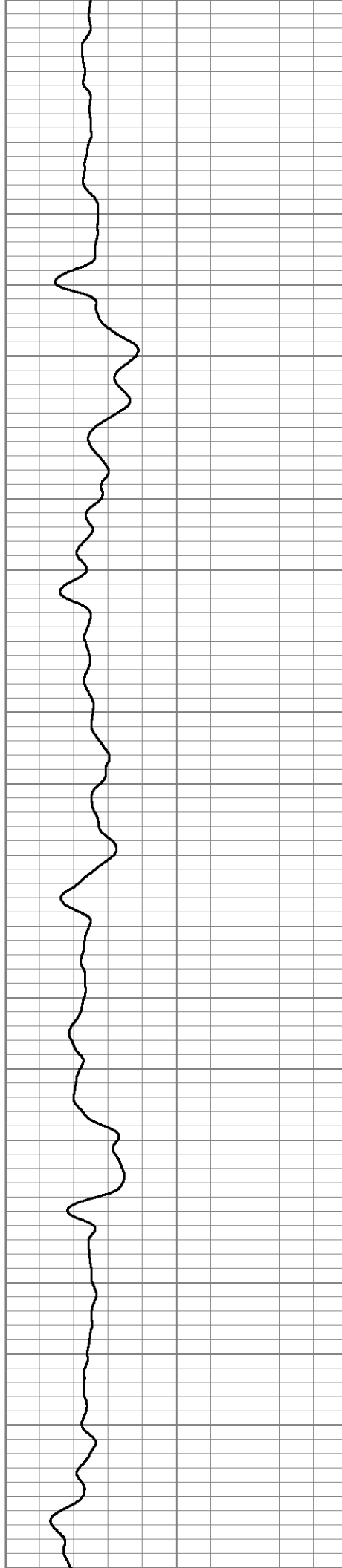
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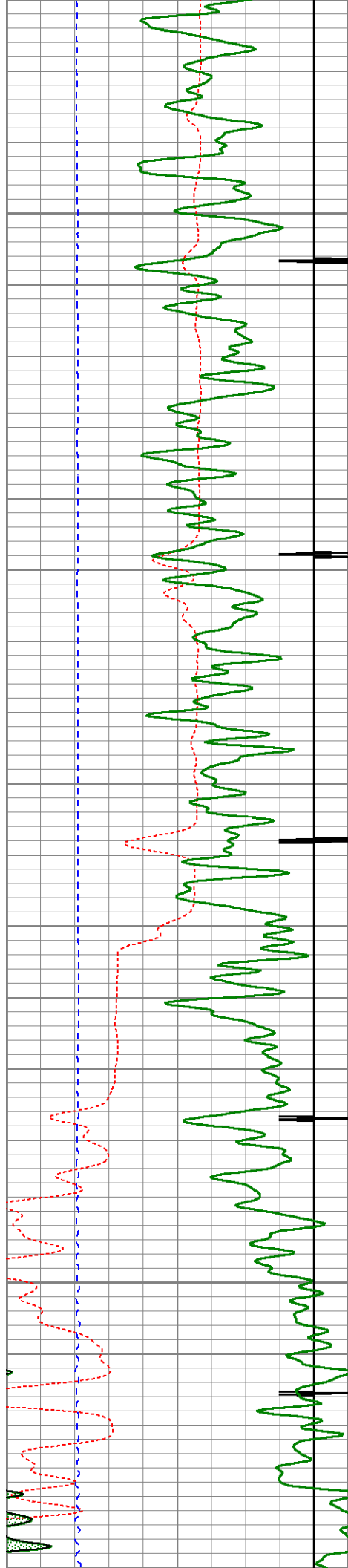
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5950
6000
6050
6100



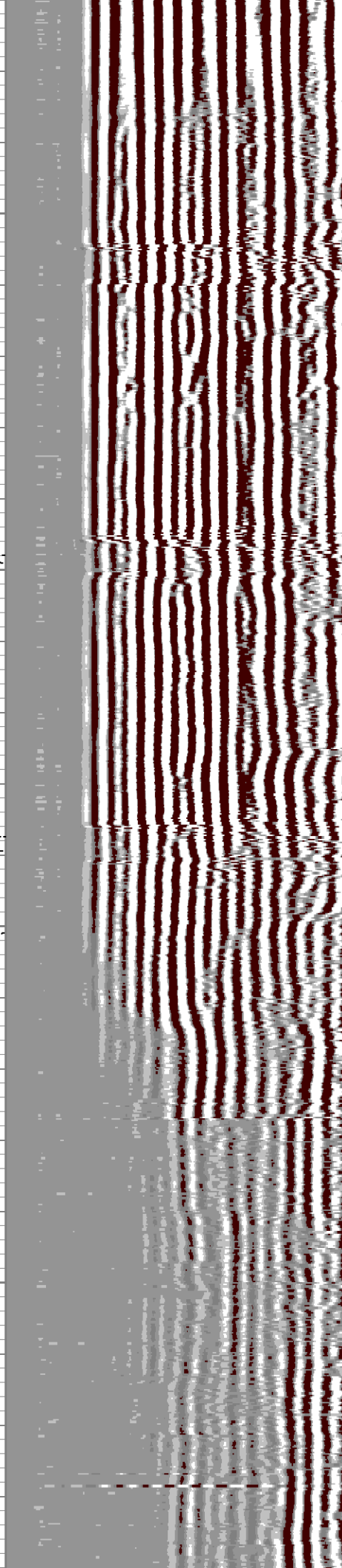
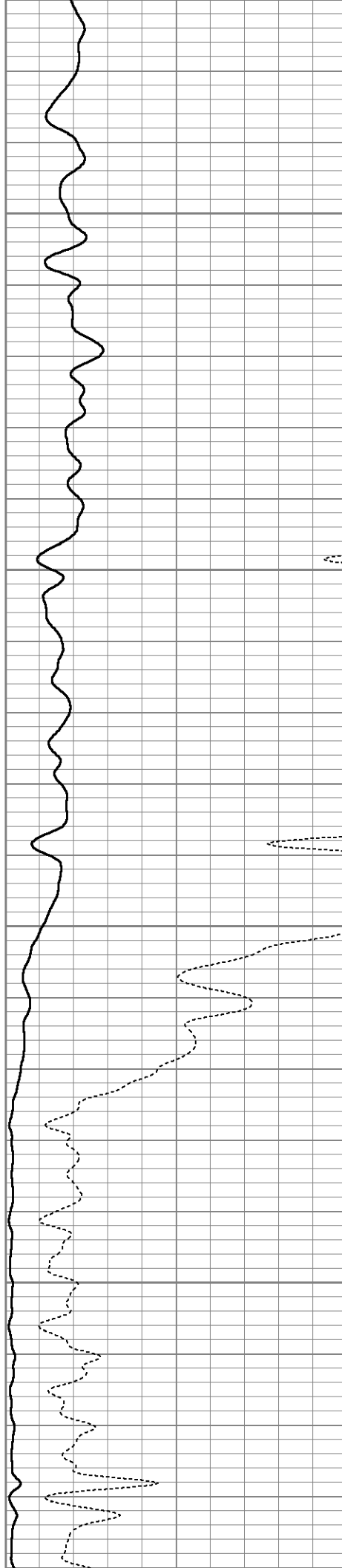


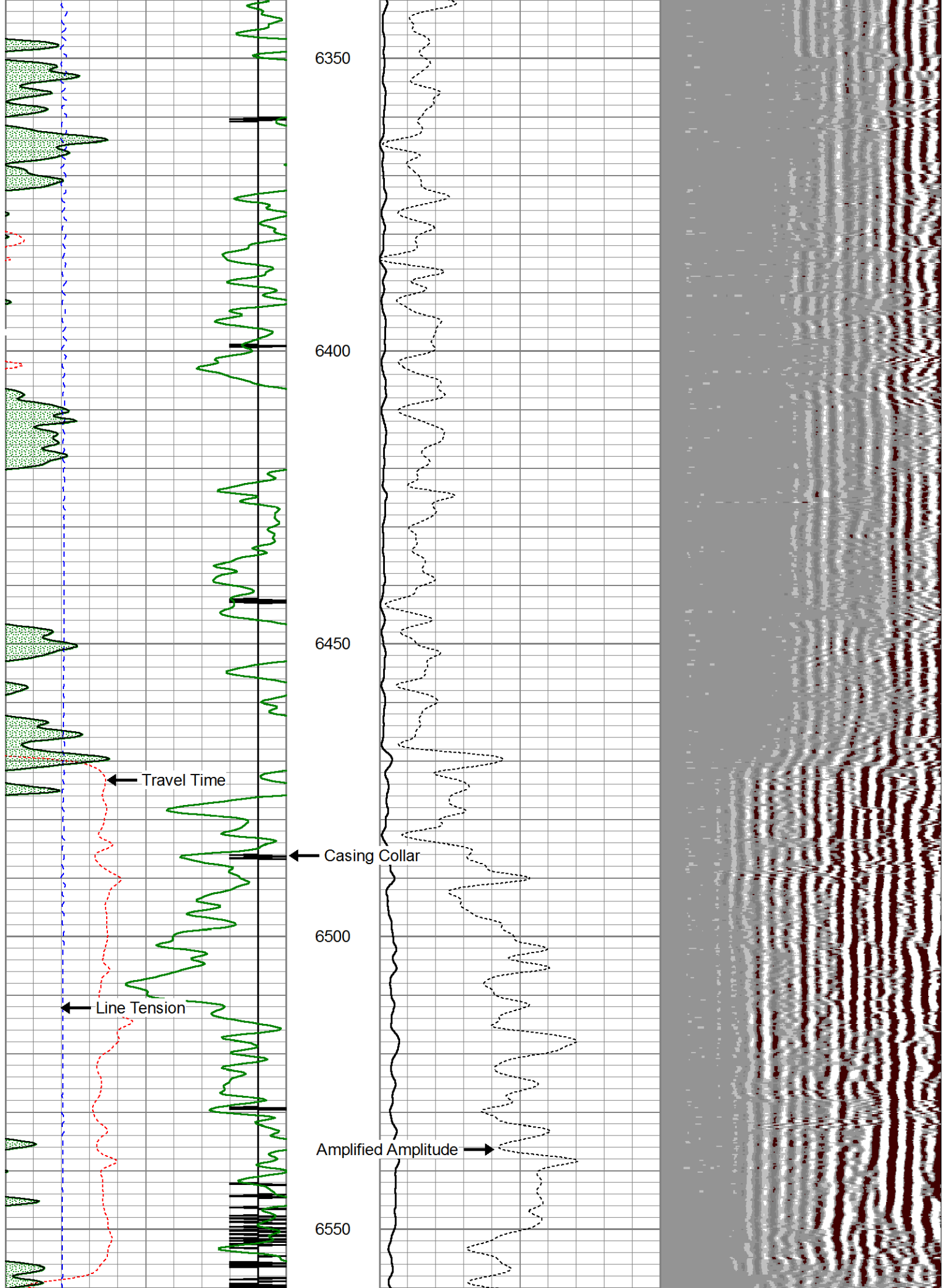
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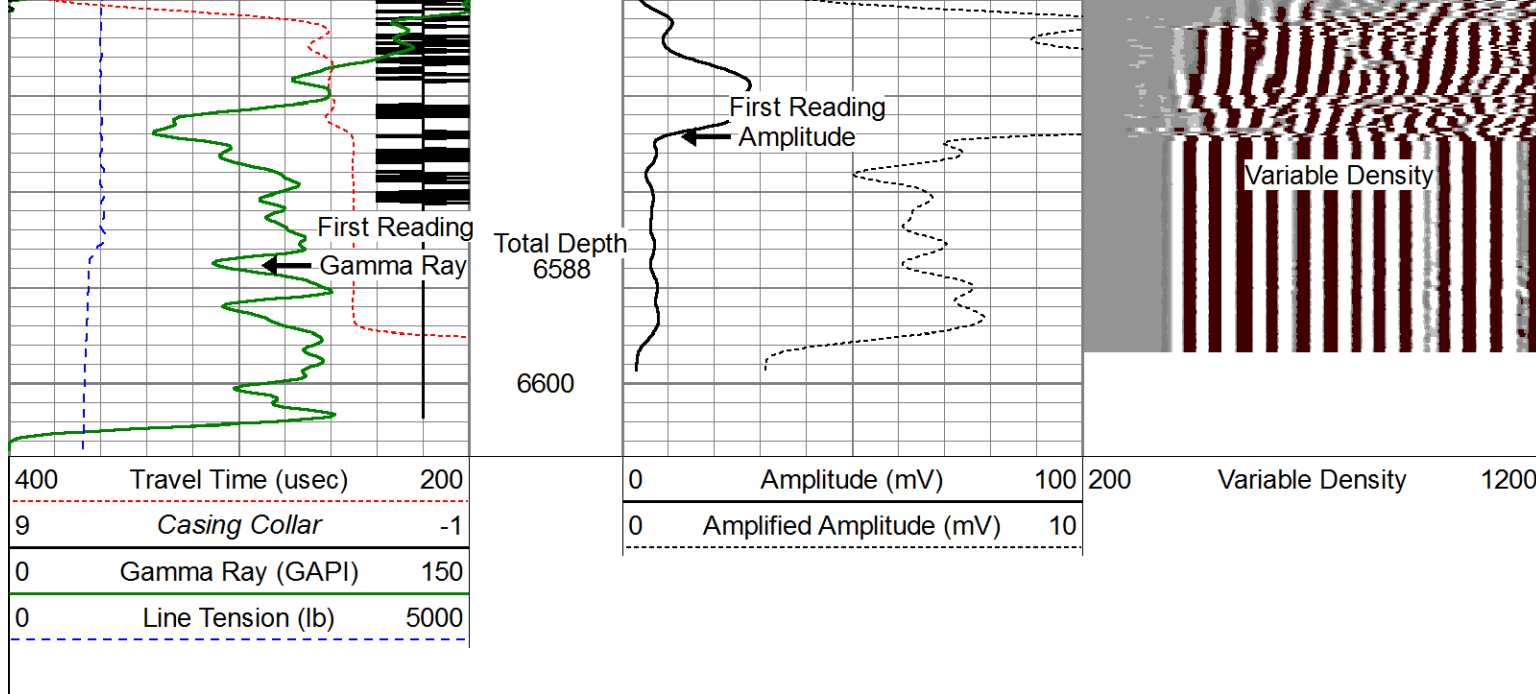
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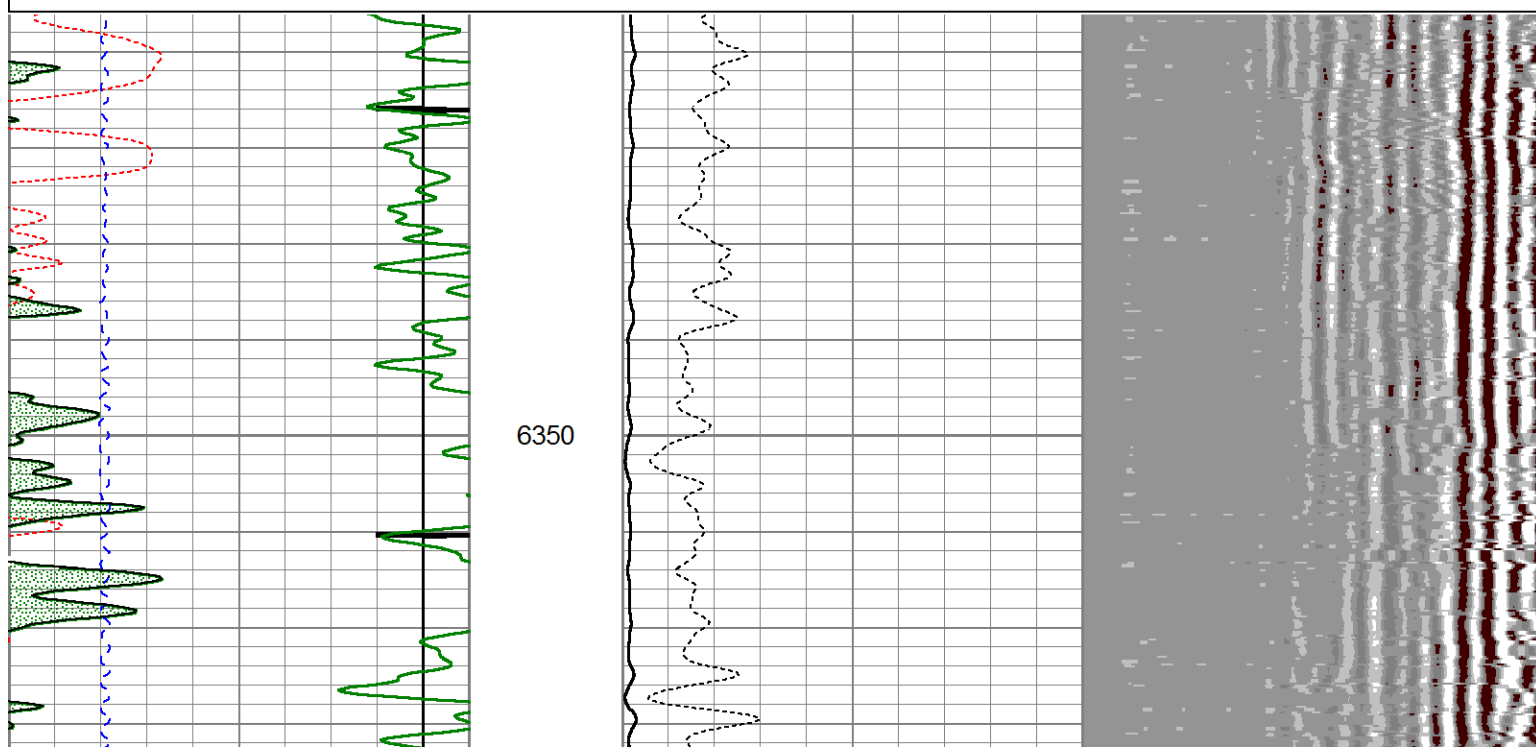
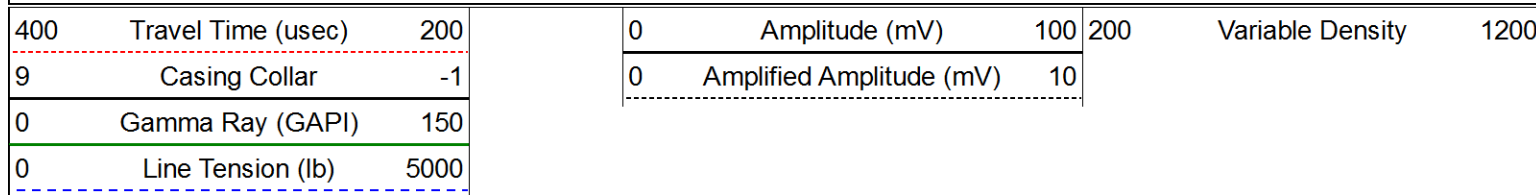


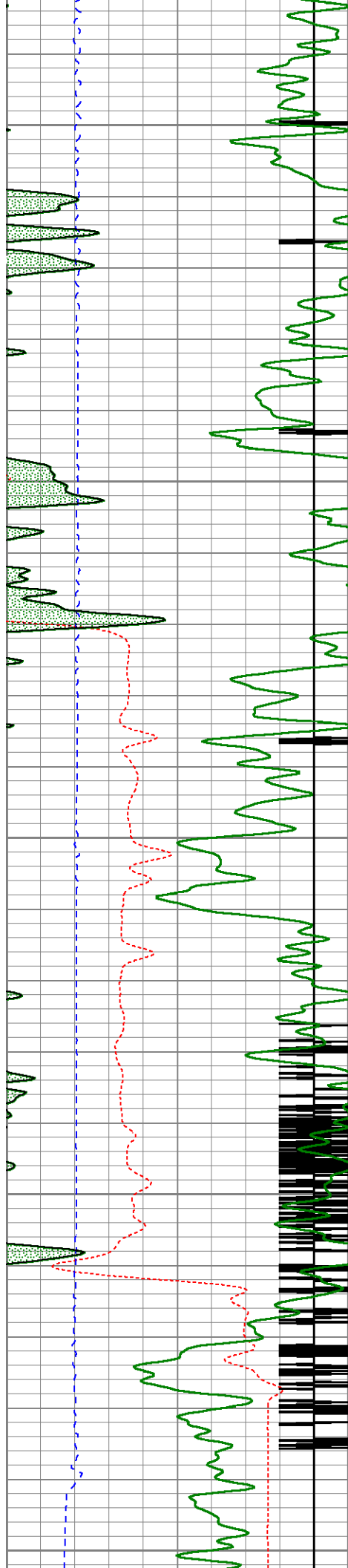




Repeat Pass (0 PSI)

Database File: c:\users\engineers\desktop\brtn logs\bonanza creek\north platte federal k-o-22 hnb\bonanza creek north p
 Dataset Pathname: pass6
 Presentation Format: cblprobe
 Dataset Creation: Sat Oct 26 09:15:45 2013 by Log 0
 Charted by: Depth in Feet scaled 1:240





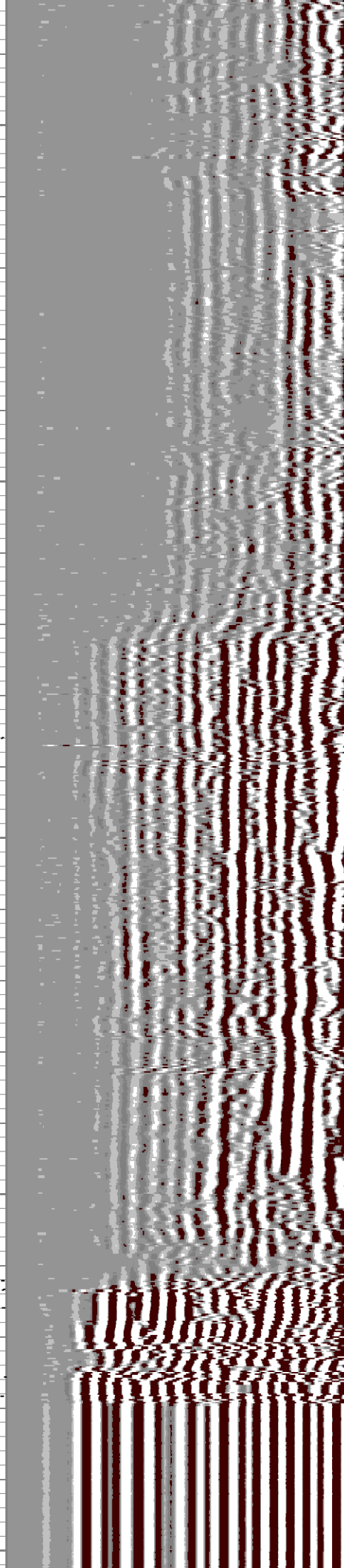
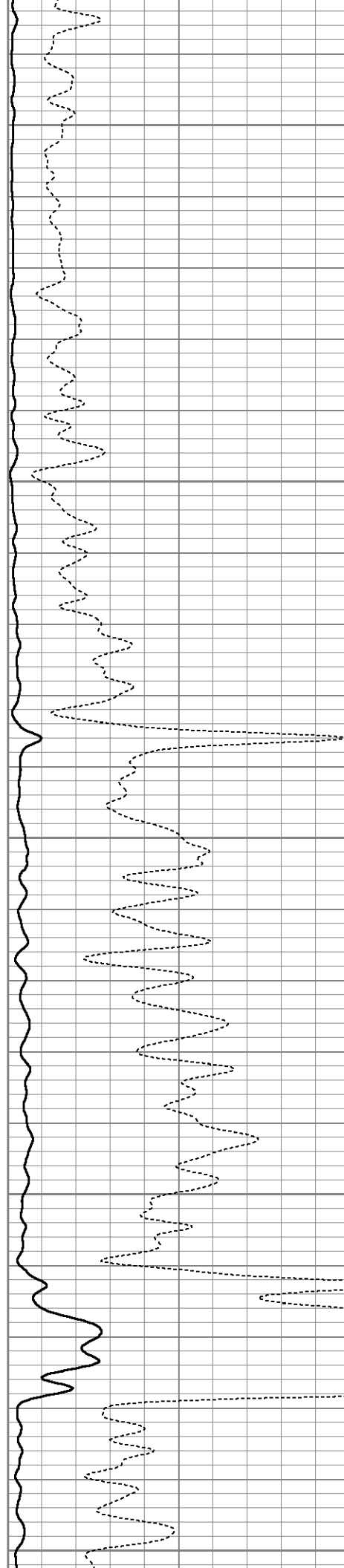
6400

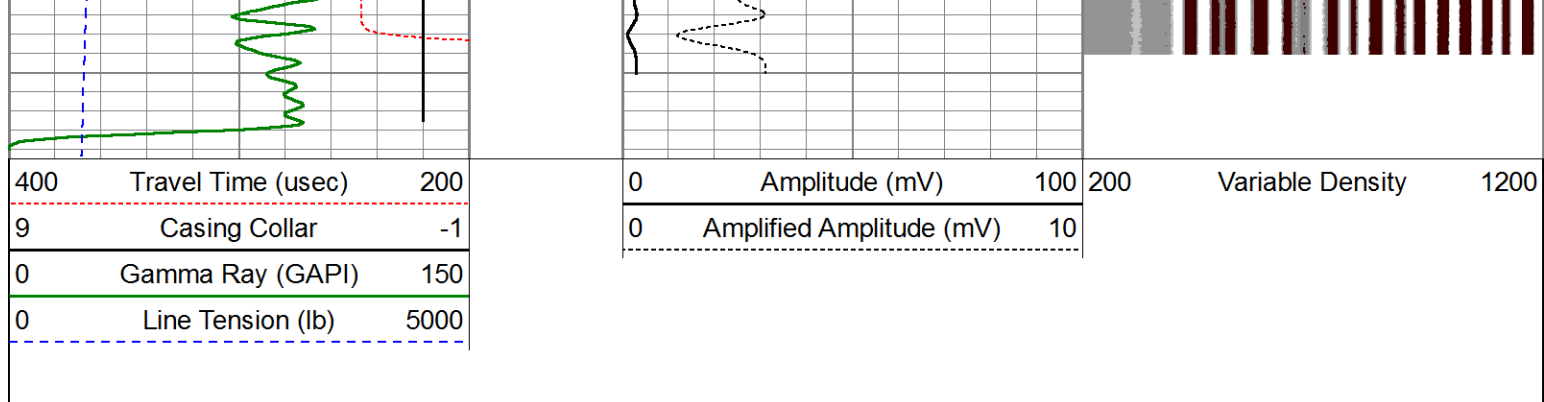
6450

6500

6550

6600





Calibration Report

Database File: C:\Users\Engineers\Desktop\BRTN LOGS\Bonanza Creek\North Platte Federal K-O-22 HNB\bonanza creek
Dataset Pathname: pass8
Dataset Creation: Sat Oct 26 09:26:08 2013 by Log 0

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	

Temperature Calibration Report			
Serial Number:	110108-Dig		
Tool Model:	Probe275		
Performed:	Sun Jun 13 13:33:21 1993		
	Reference	Reading	
Low Reference:	0.00 degF	0.00	cps
High Reference:	1.00 degF	1.00	cps
Gain:	1.00		
Offset:	0.00		
Delta Spacing	2		

Segmented Cement Bond Log Calibration Report			
Serial Number:	111107		
Tool Model:	Probe		
Calibration Casing Diameter:	7.000	in	
Calibration Depth:	639.605	ft	

Master Calibration, performed Sat Oct 26 08:54:07 2013:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.022	0.623	1.000	62.165	94.735	3.122
CAL	-0.039	1.177				
5'	-0.025	0.468	1.000	62.165	124.103	4.103
SUM						
S1	-0.029	0.678	0.000	100.000	141.463	4.148

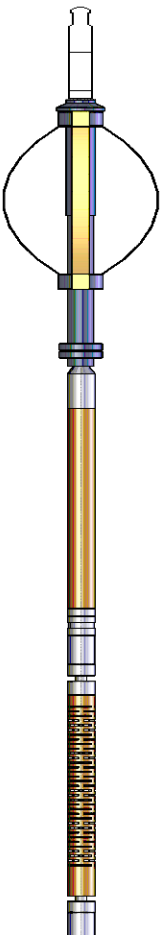
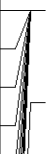
S2	-0.009	0.707	0.000	100.000	139.712	1.189
S3	-0.017	0.704	0.000	100.000	138.702	2.311
S4	-0.015	0.683	0.000	100.000	143.458	2.089
S5	-0.015	0.630	0.000	100.000	154.879	2.388
S6	-0.015	0.583	0.000	100.000	167.020	2.561
S7	-0.017	0.549	0.000	100.000	176.479	3.042
S8	-0.016	0.551	0.000	100.000	176.195	2.895

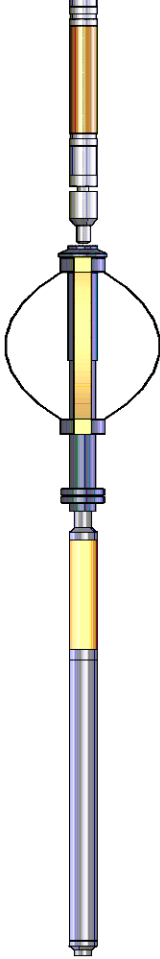
Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.039	1.177	1.000	0.000

Air Zero Calibration, performed Thu Oct 17 08:50:08 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
			RBT-Probe (111107) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVF3FT	11.84					
WVFCAL	11.84					
WVFS1	11.84					
WVFS2	11.84					

WVFS3	11.84		2.88	2.75	20.00
WVFS4	11.84				
WVFS5	11.84				
WVFS6	11.84				
WVFS7	11.84				
WVFS8	11.84				
WVF5FT	10.84				
CCL	3.88				
TEMP	3.00				
GR	2.54				
Dataset: bonanza creek North Platte Federal k-o_22 hnb_cbl.db: field/well/run1/pass8					
Total Length: 20.28 ft					
Total Weight: 197.00 lb					
O.D. 2.75 in					