



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

Company		Bonanza Creek Energy	
Well		Seventy Holes T-P-5HNB	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API # : 05-123-37579	
Permanent Datum		485' FSL & 799' FEL	
Log Measured From		Ground Level	
Drilling Measured From		Elevation	
SEC 5		TWP 4N	
RGE 62W		4531'	
Other Services		NONE	
K.B. 4546'		D.F. 4545'	
G.L. 4531'			
Date		26-Sept-2013	
Run Number		1	
Depth Driller		10952'	
Depth Logger		6400'	
Bottom Logged Interval		6400'	
Top Log Interval		Surface	
Open Hole Size		8.75	
Type Fluid		Fresh Water	
Density / Viscosity		8.34	
Max. Recorded Temp.		N/A	
Estimated Cement Top		770'	
Time Well Ready		11:00	
Time Logger on Bottom		12:00	
Equipment Number		13033	
Location		Brighton	
Recorded By		R. Grissom	
Witnessed By		K. Dodge	
L. Schubert			
Borehole Record		Tubing Record	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size	
Surface String		9.625"	
Prot. String		7"	
Production String		4.5"	
Liner			

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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

Primary Log on this well

Logged from 15' Kelly Bushing

Main Pass and Repeat Pass logged with 0 PSI

Thank You For using Allied Wireline

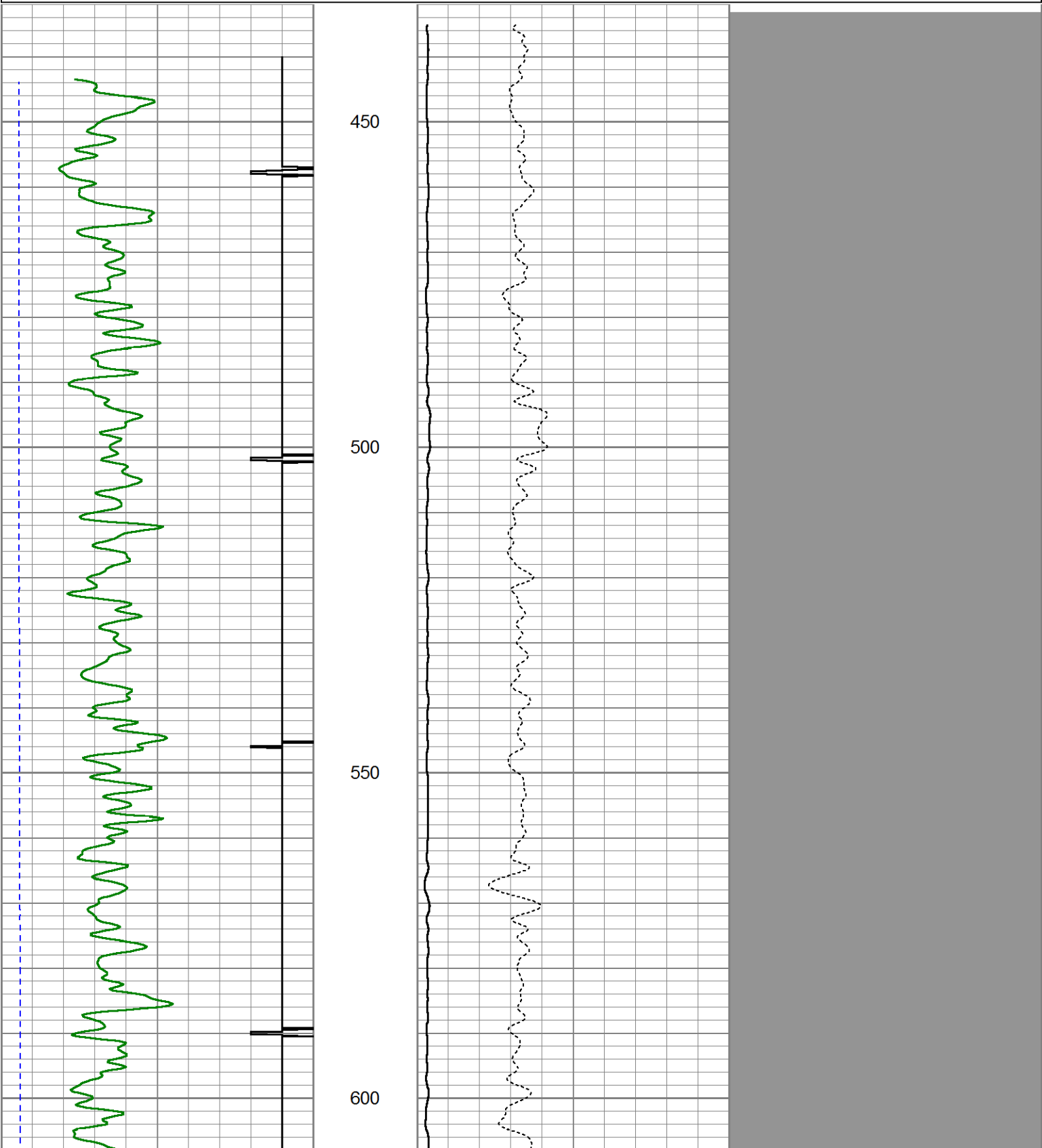
(303) 659-4609

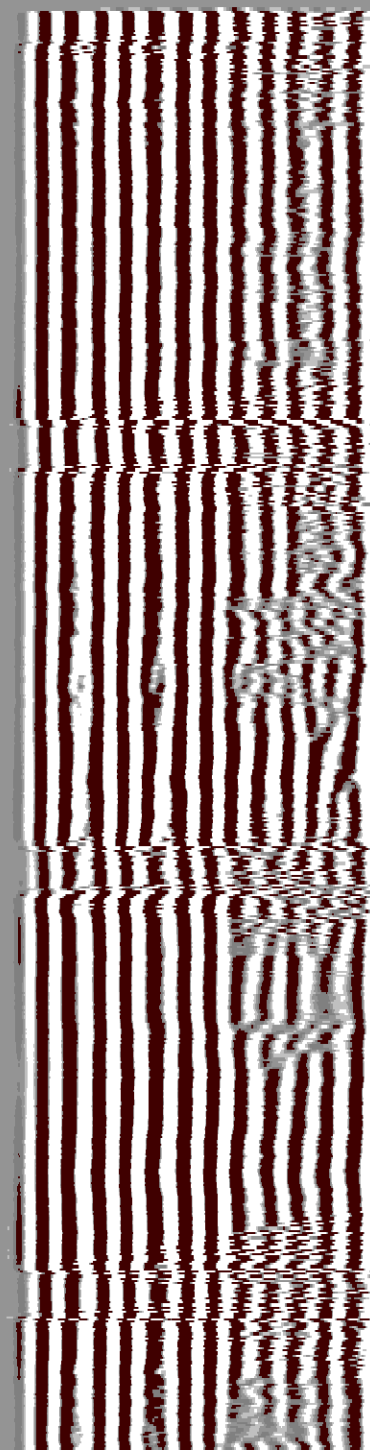
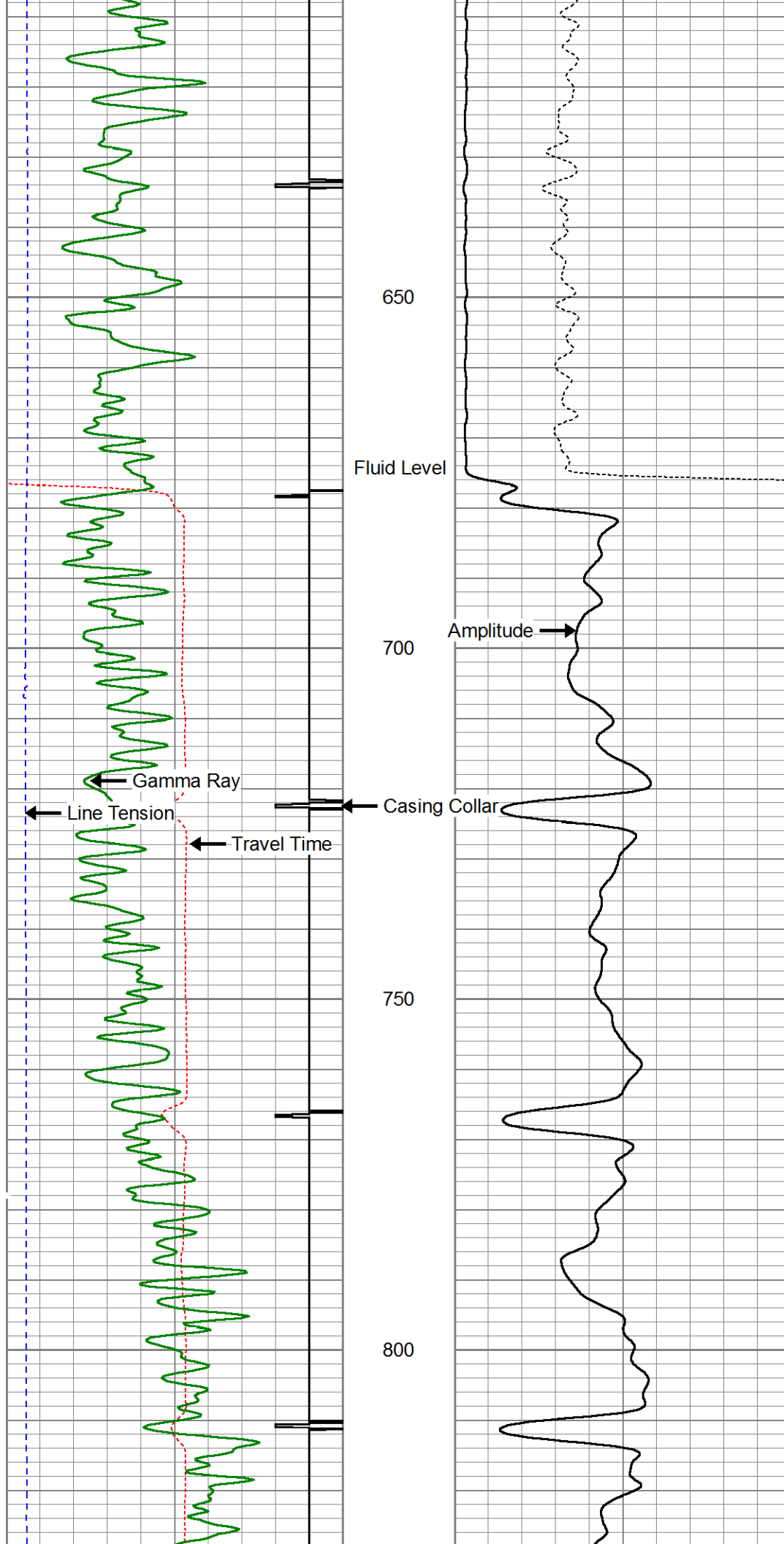
Your crew today: T. Cobb, T. Canfarelli

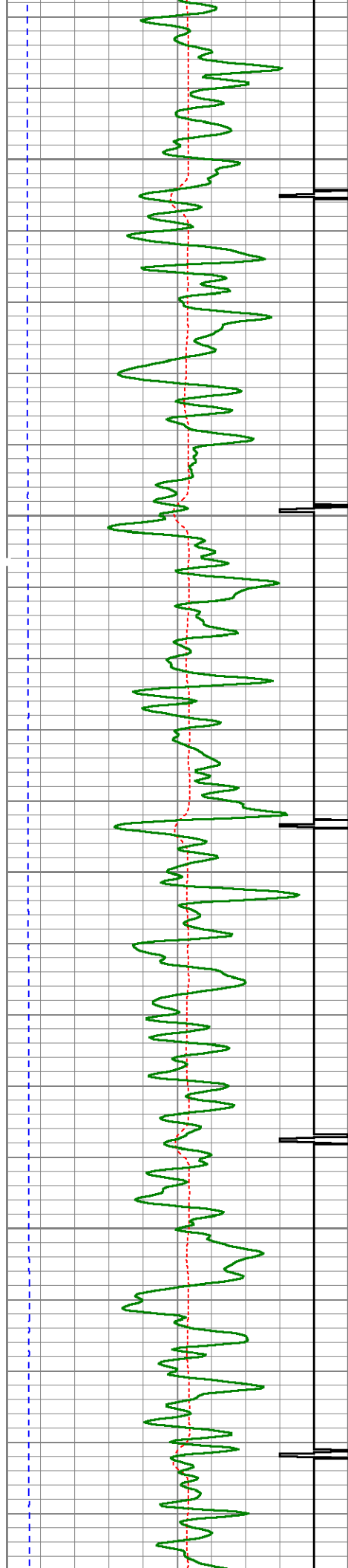


Main Pass - 0 PSI

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						





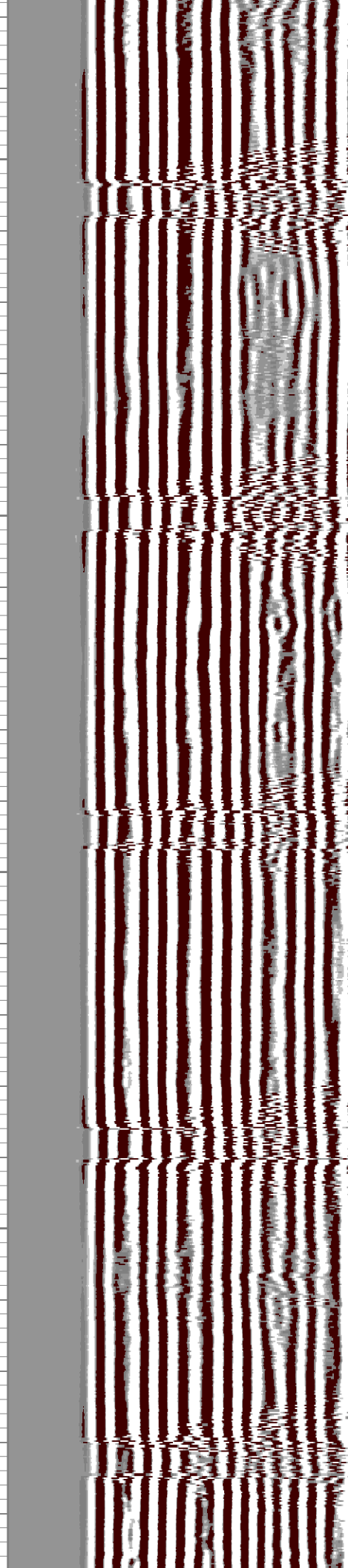
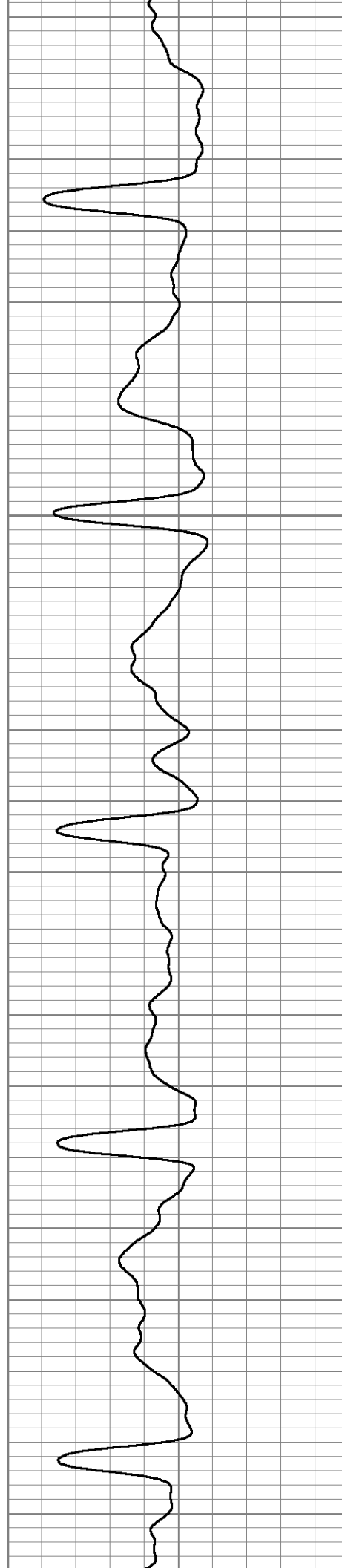


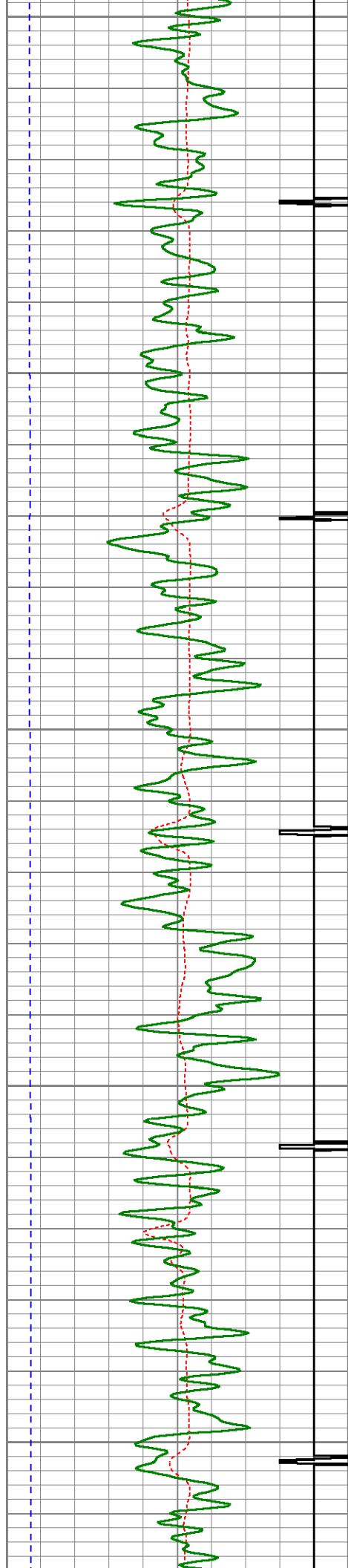
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900

950

1000





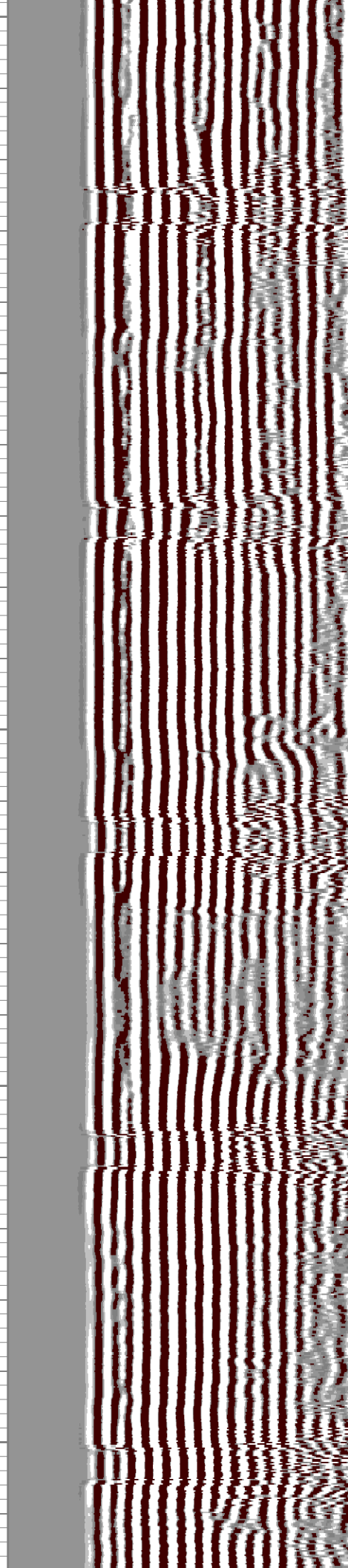
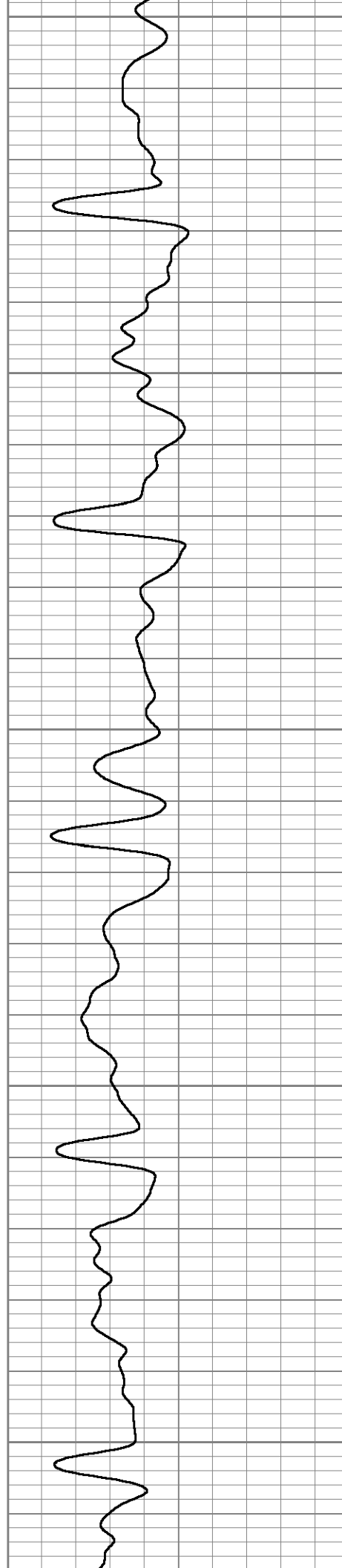
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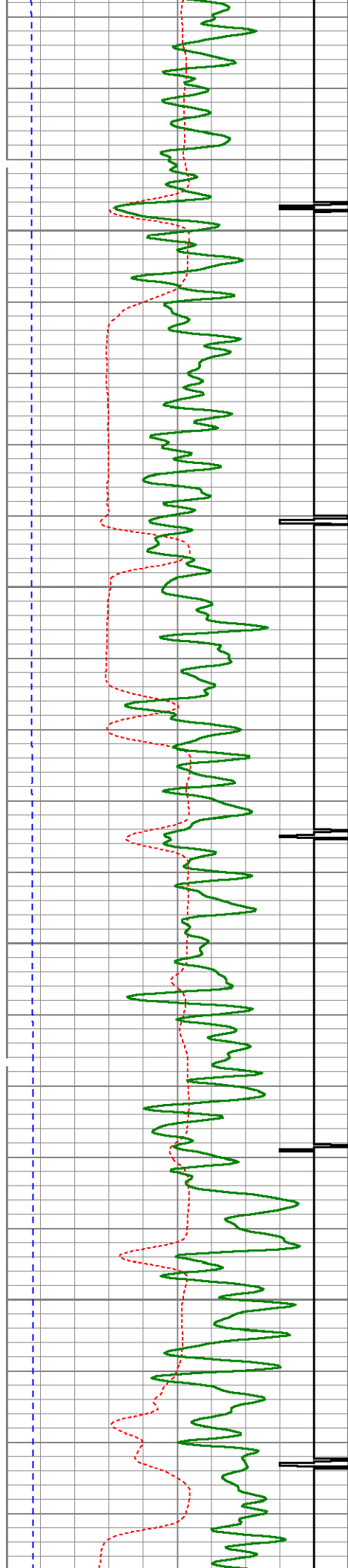
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1150

1200

1250



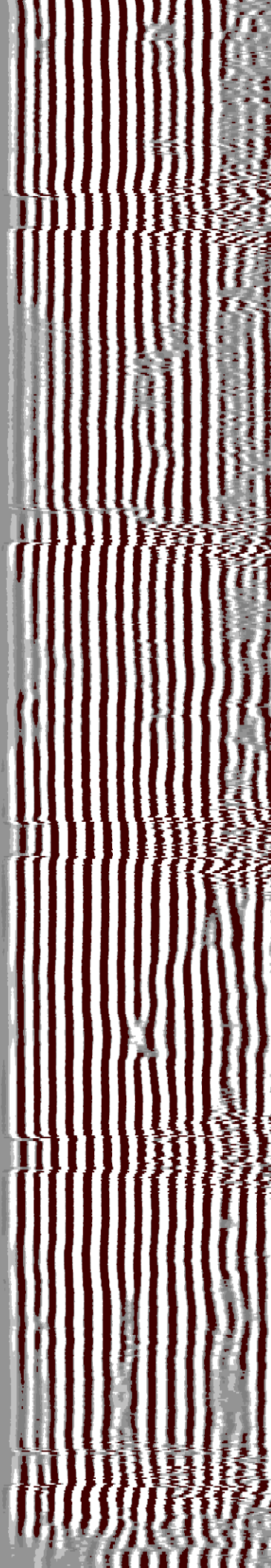
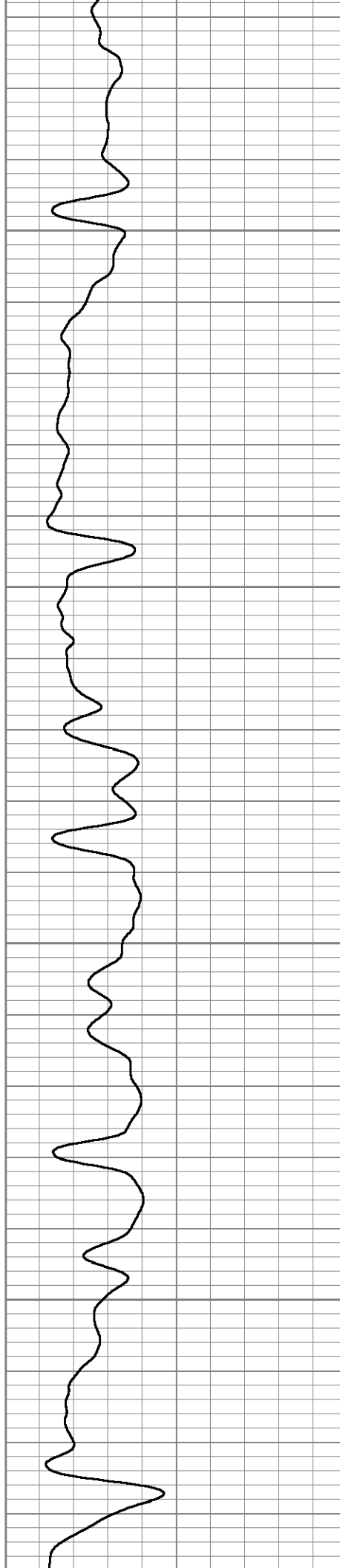


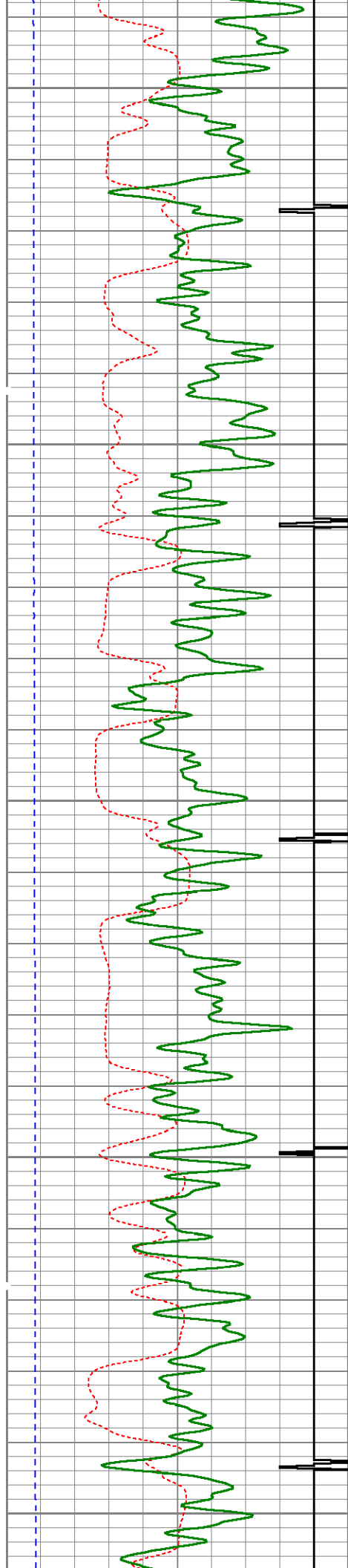
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1400

1450





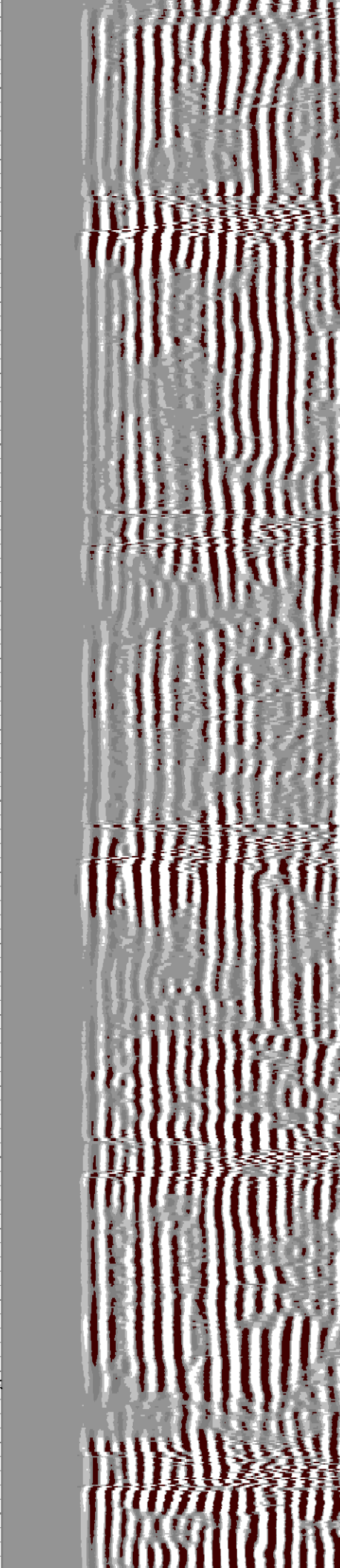
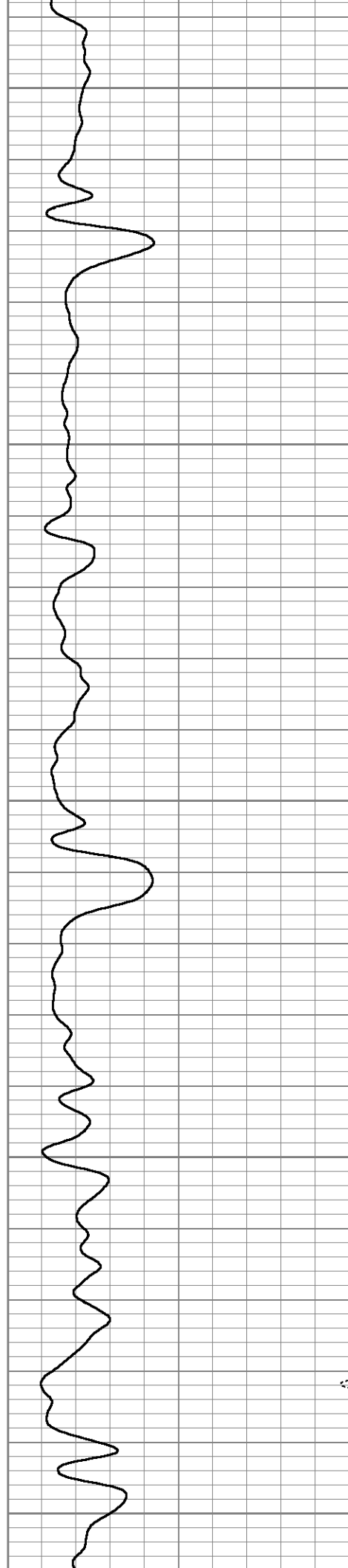
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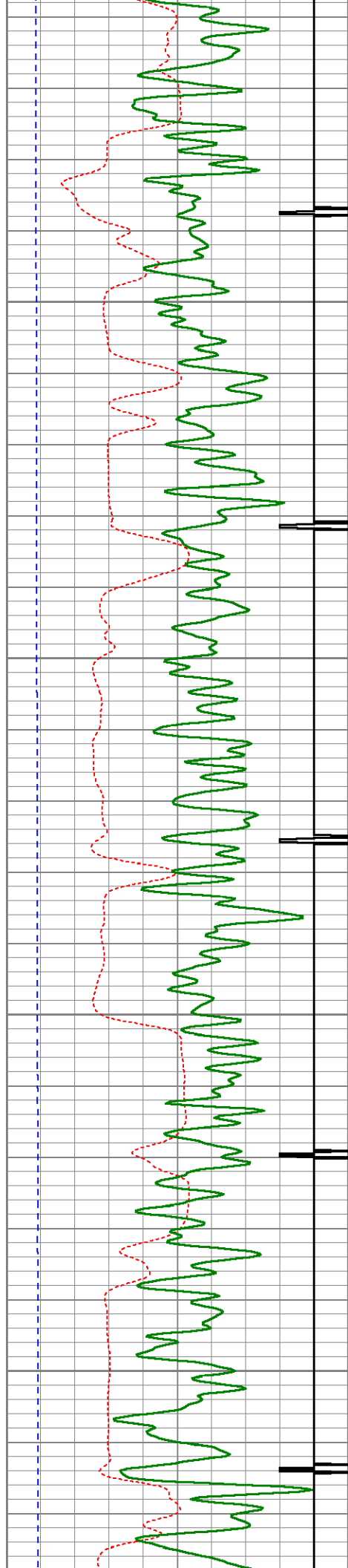
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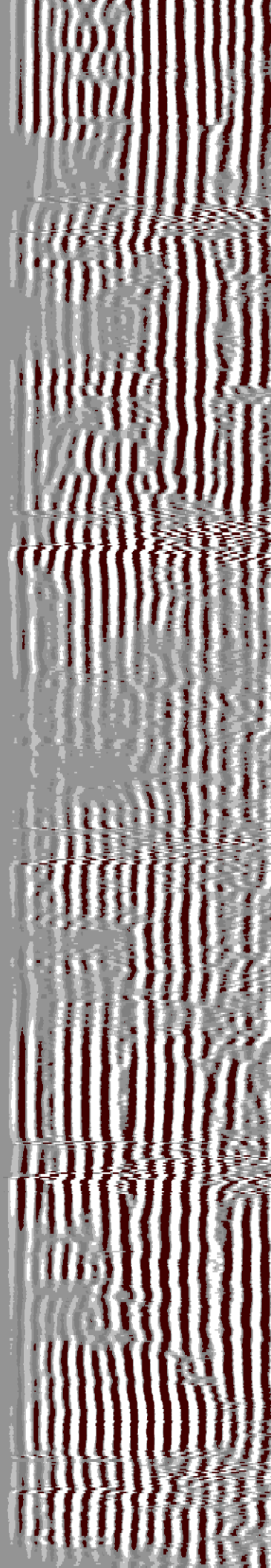
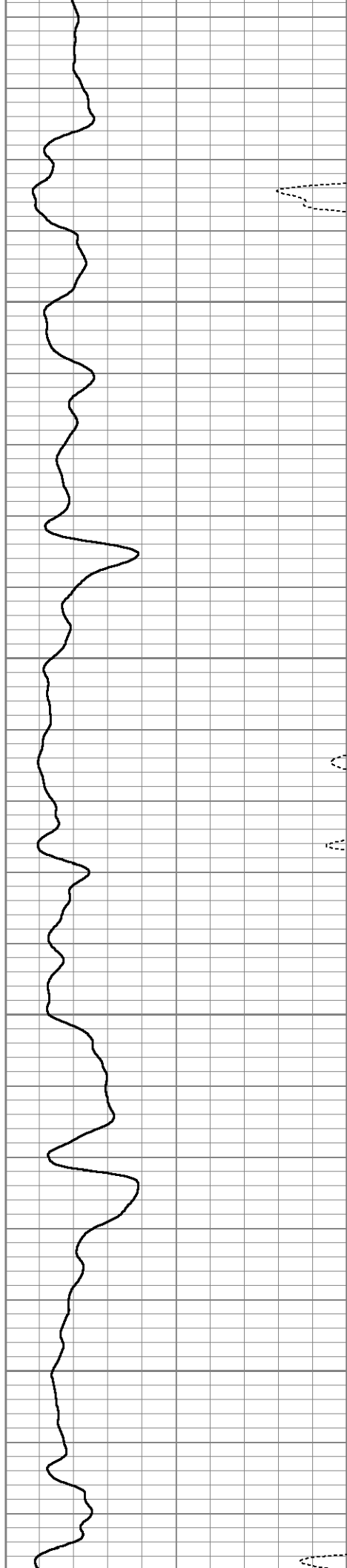


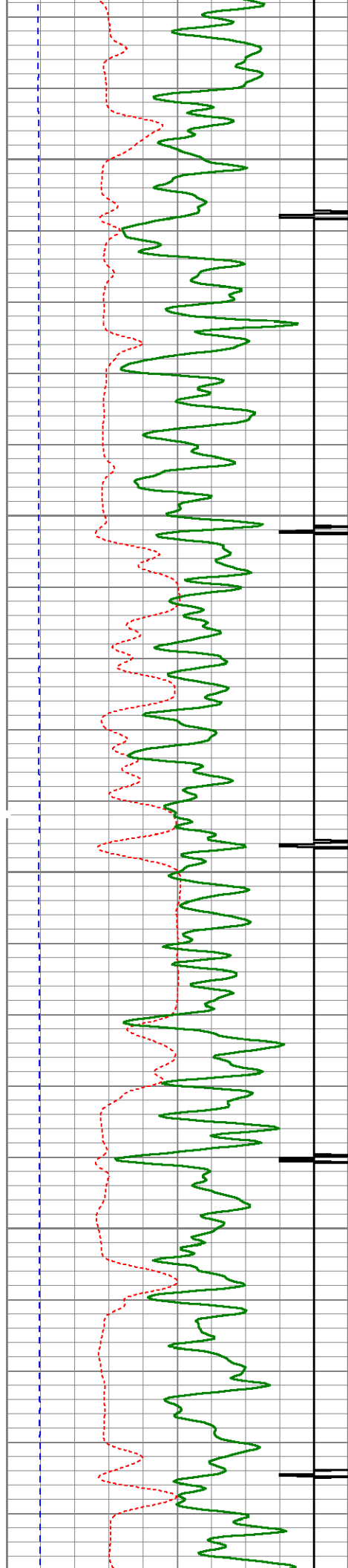
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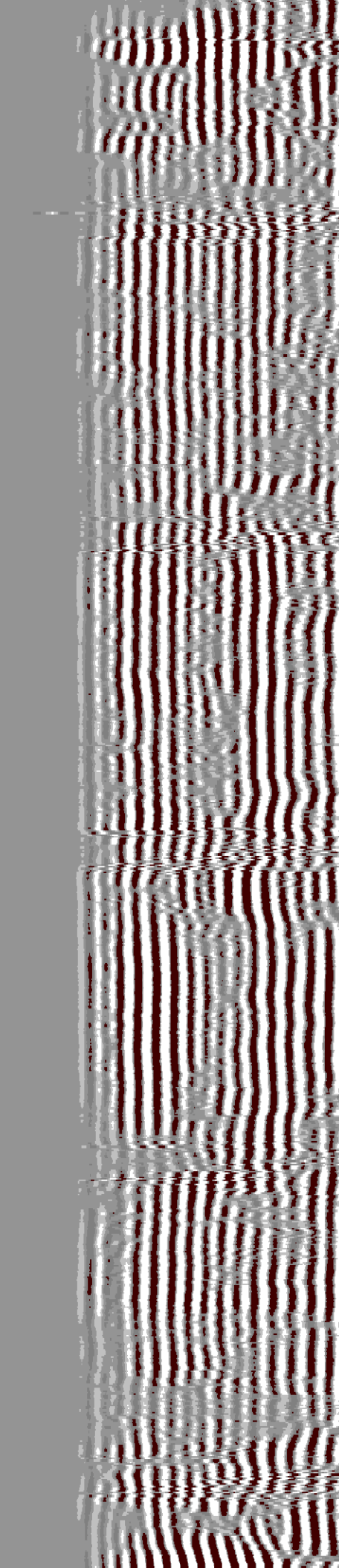
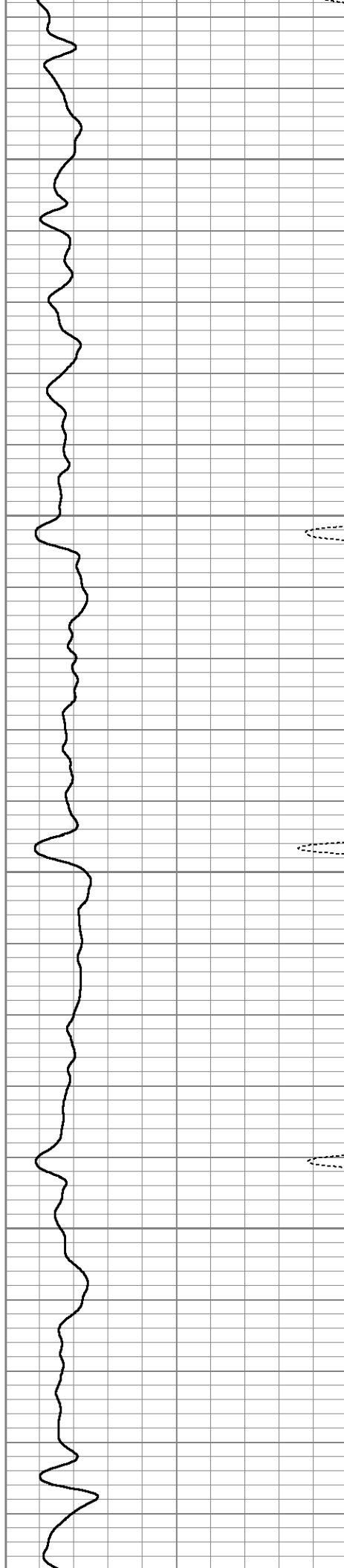


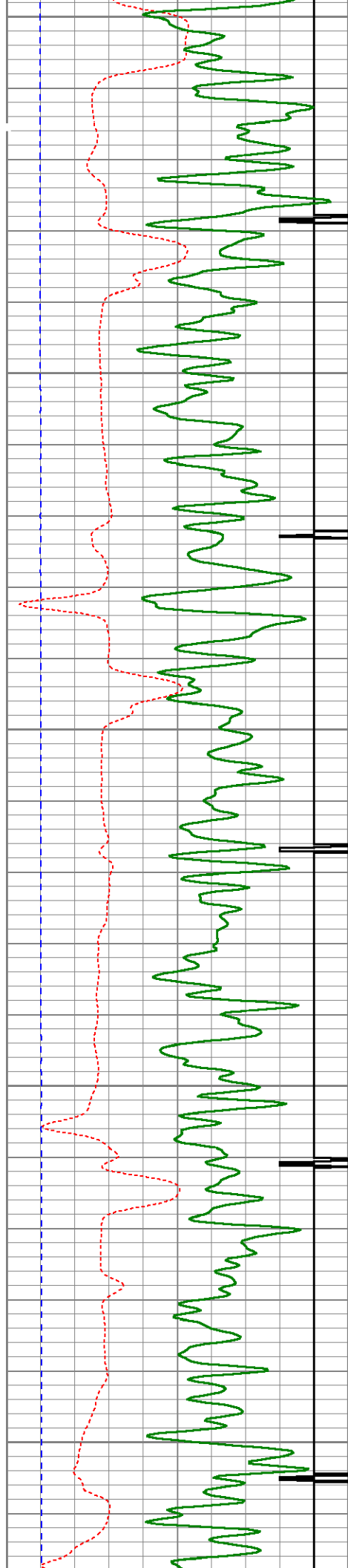
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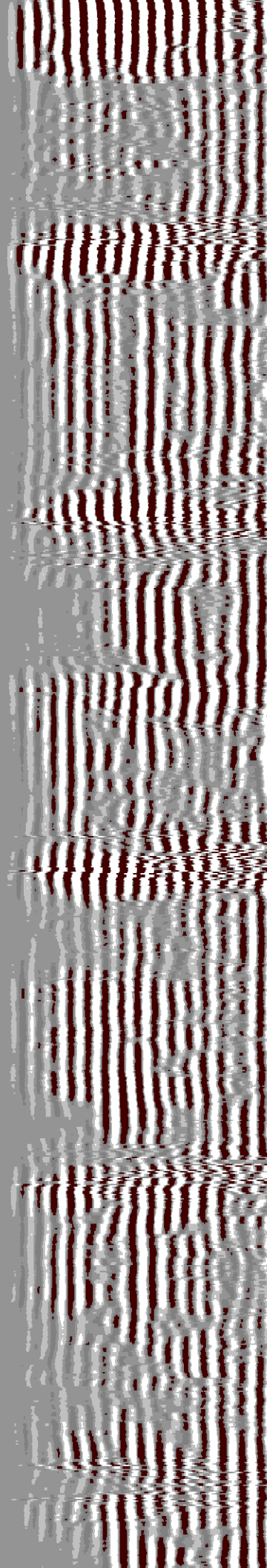
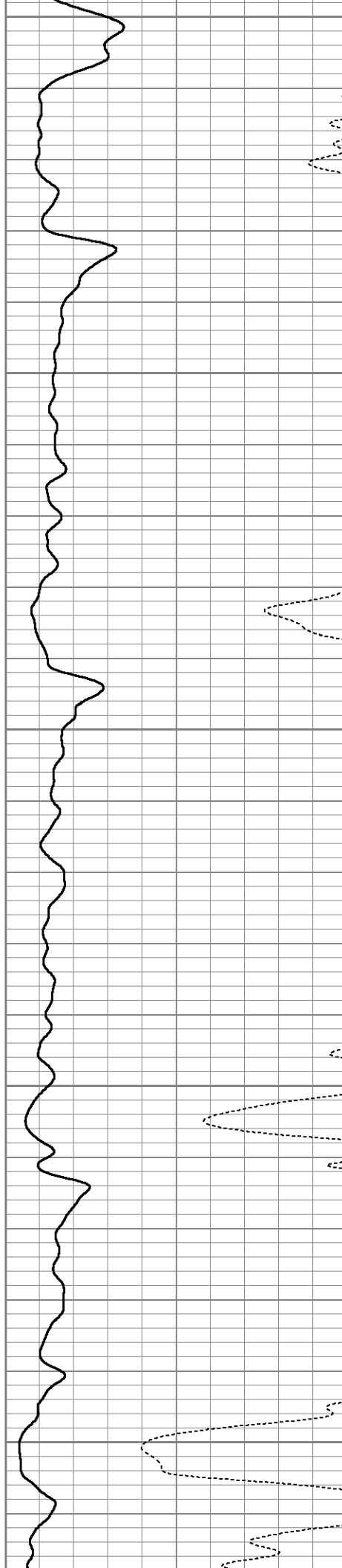
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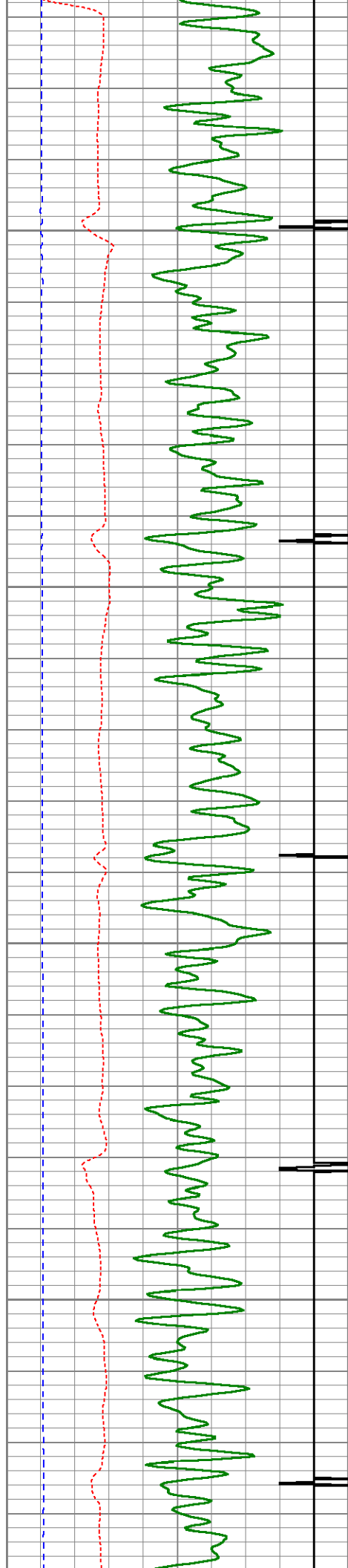
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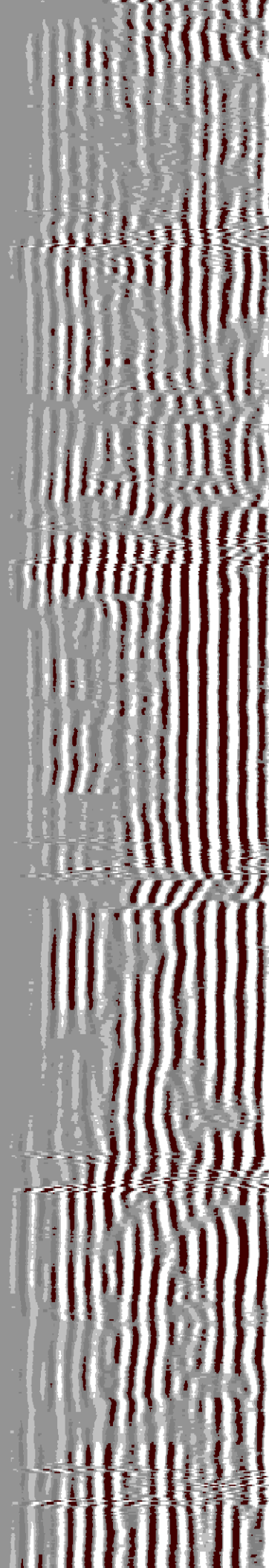
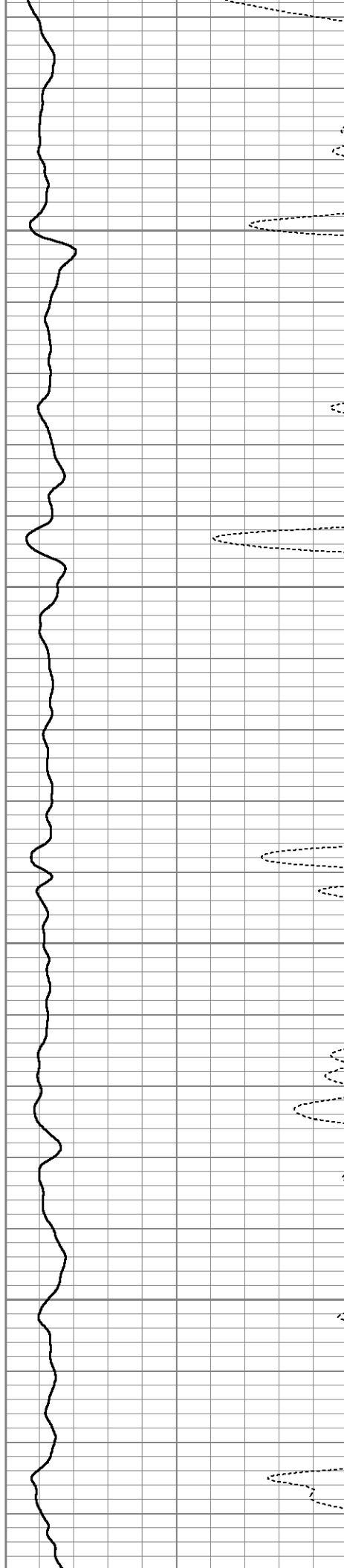


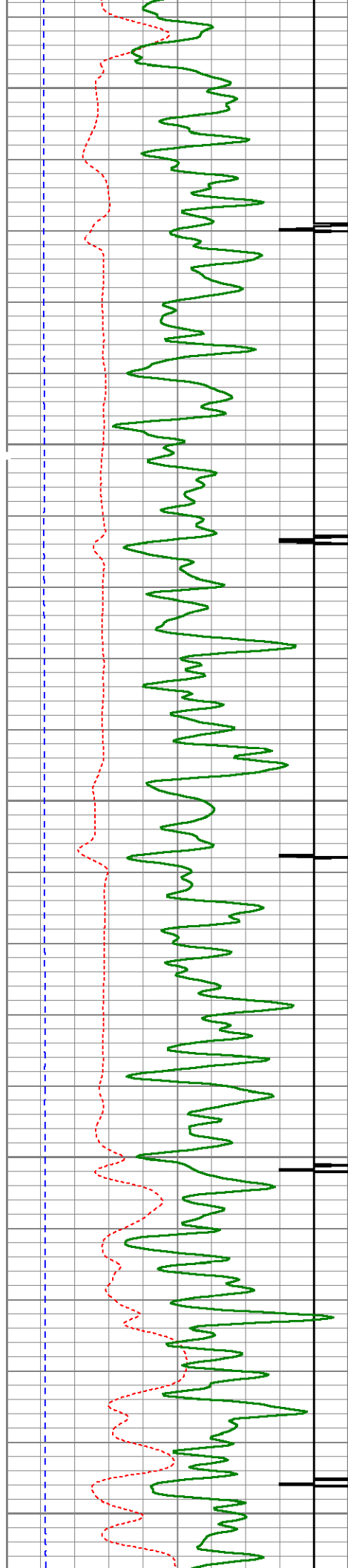
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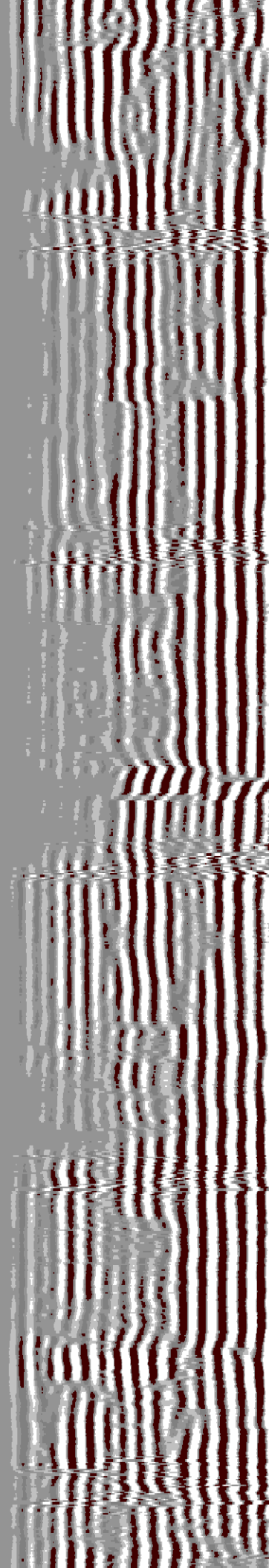
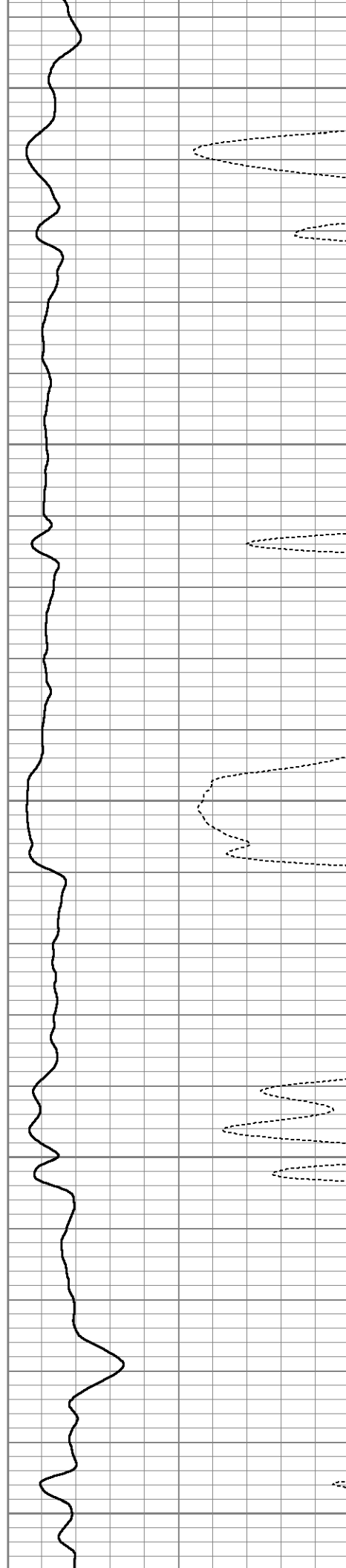
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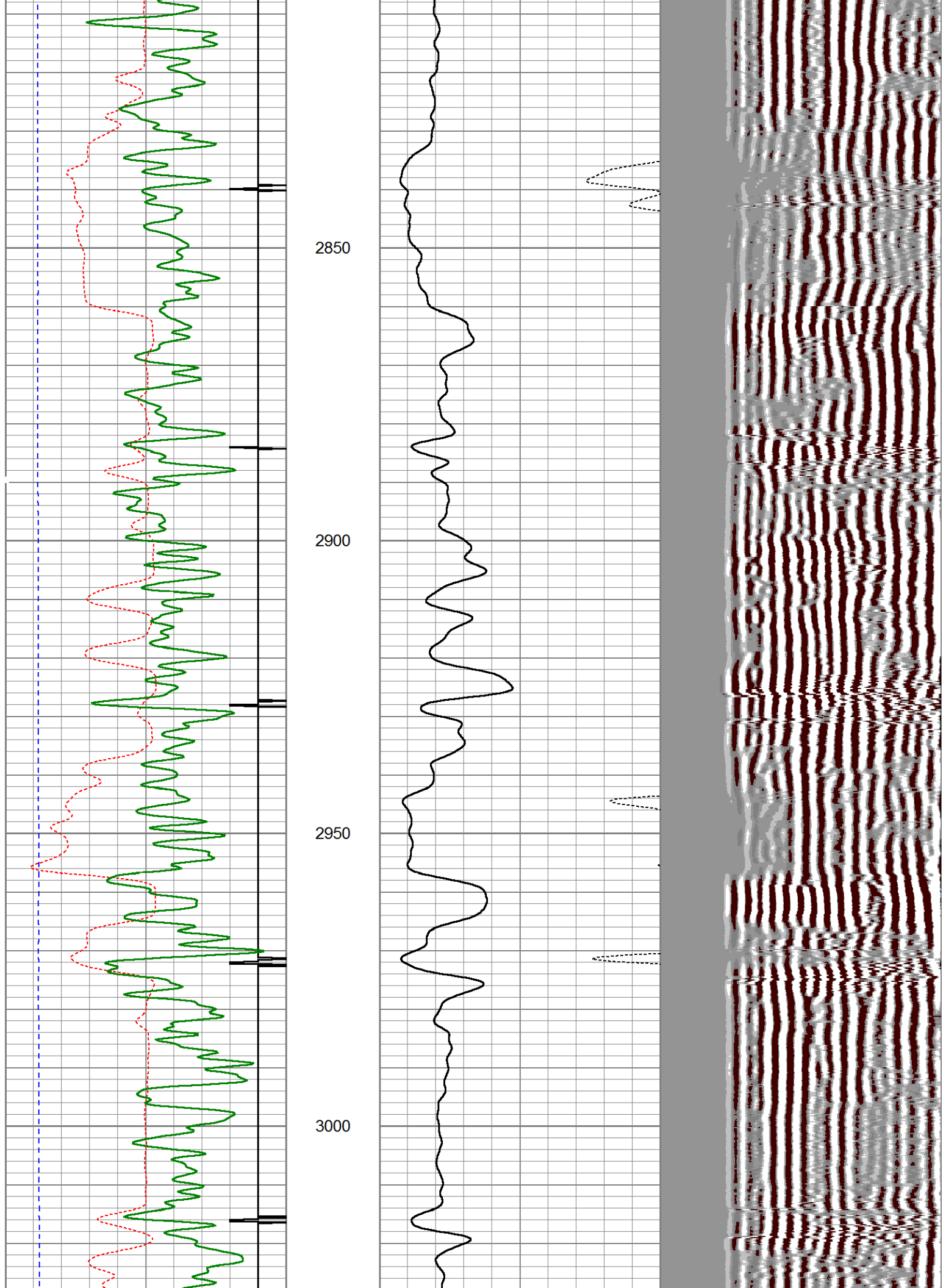
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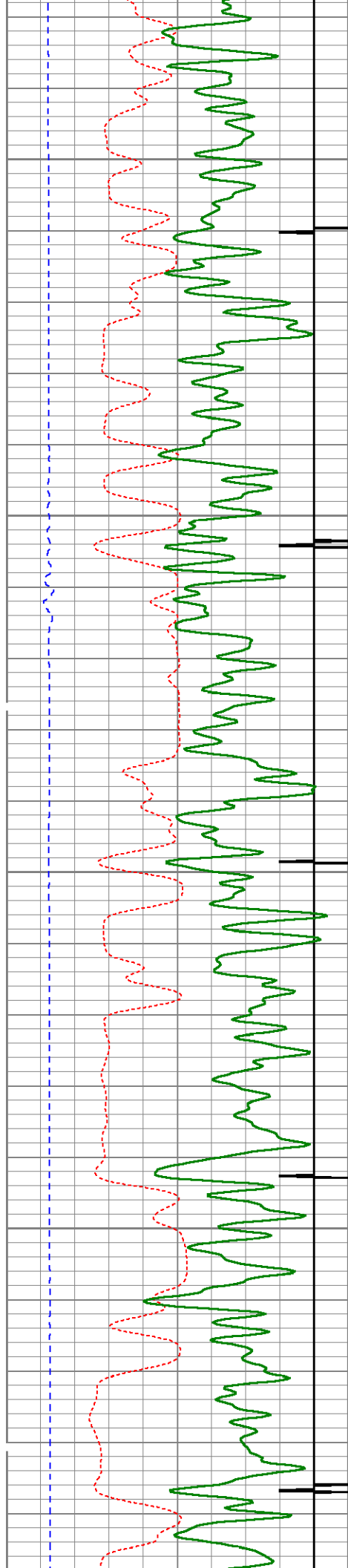
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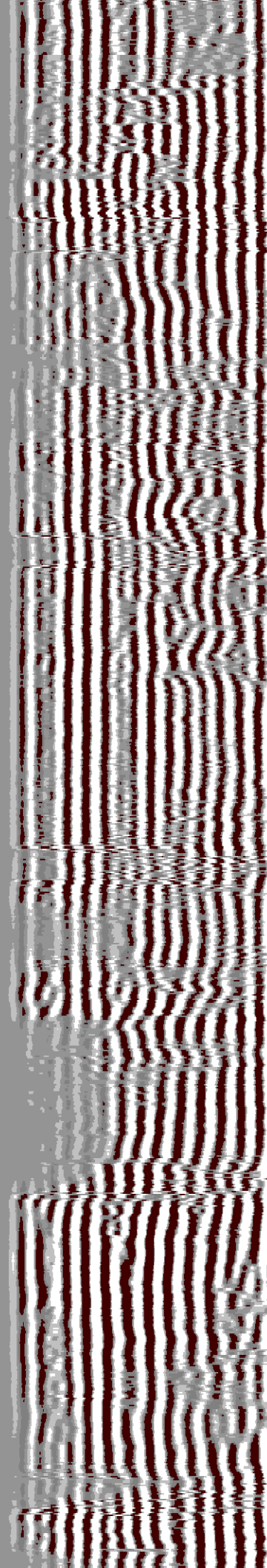
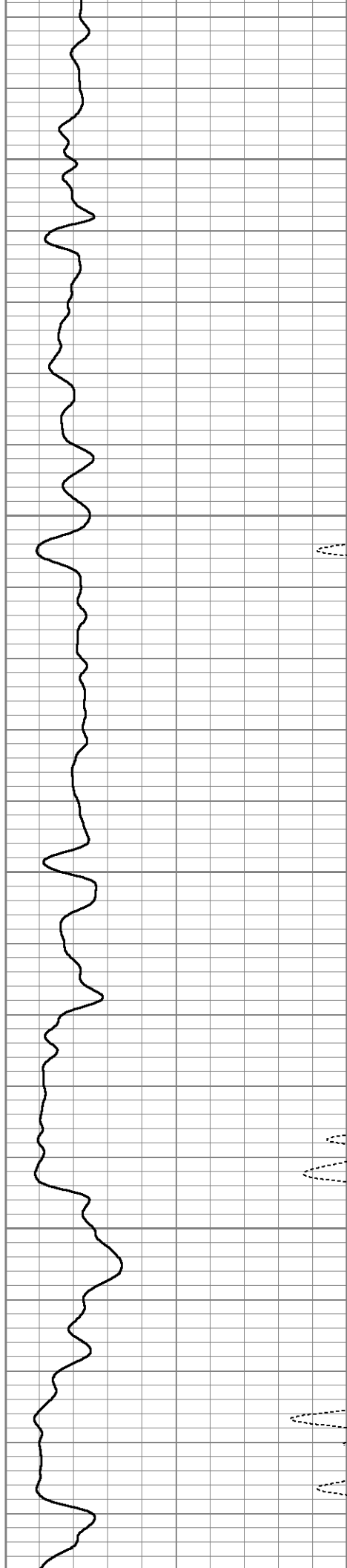


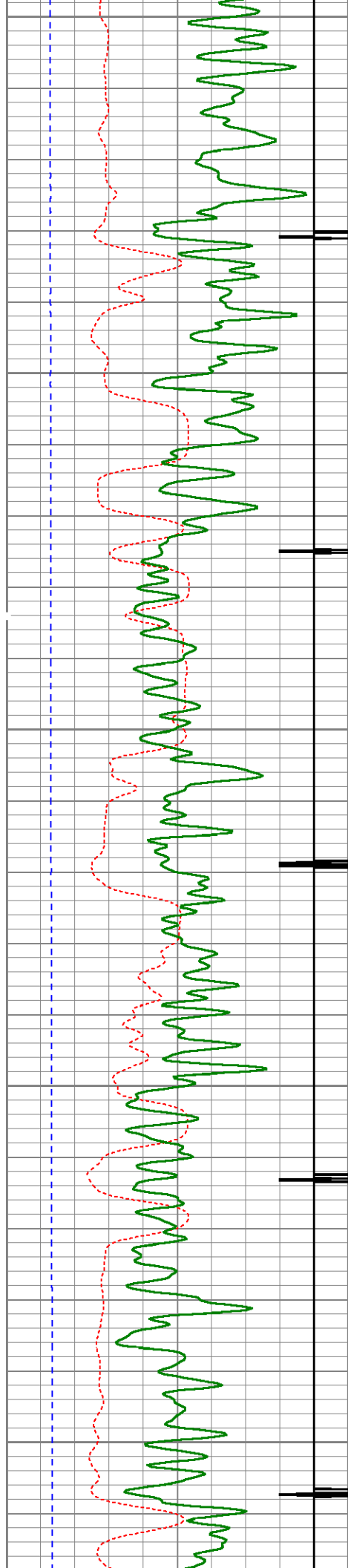
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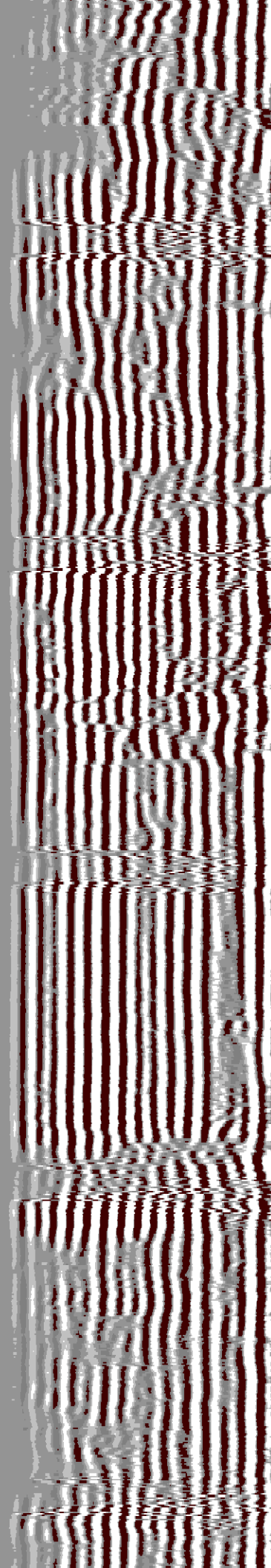
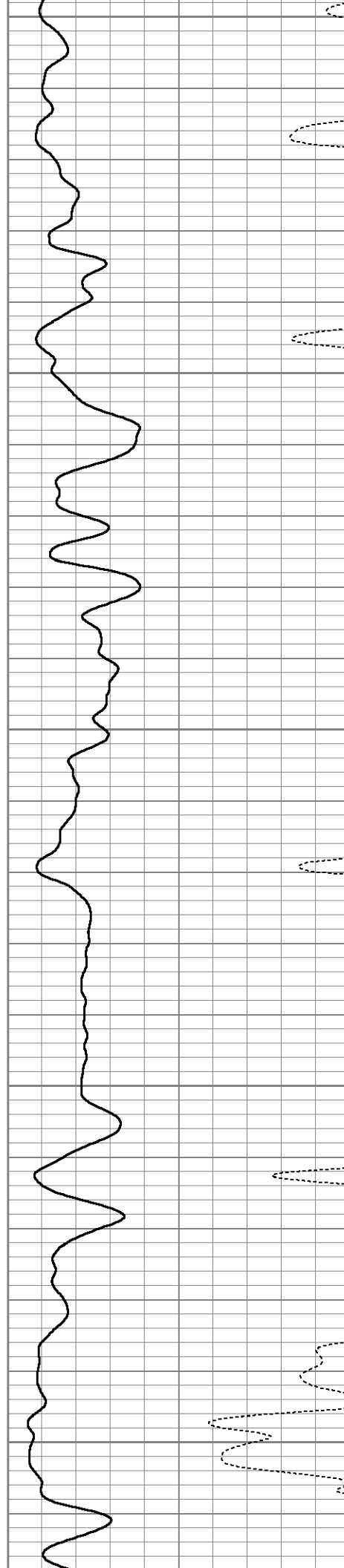
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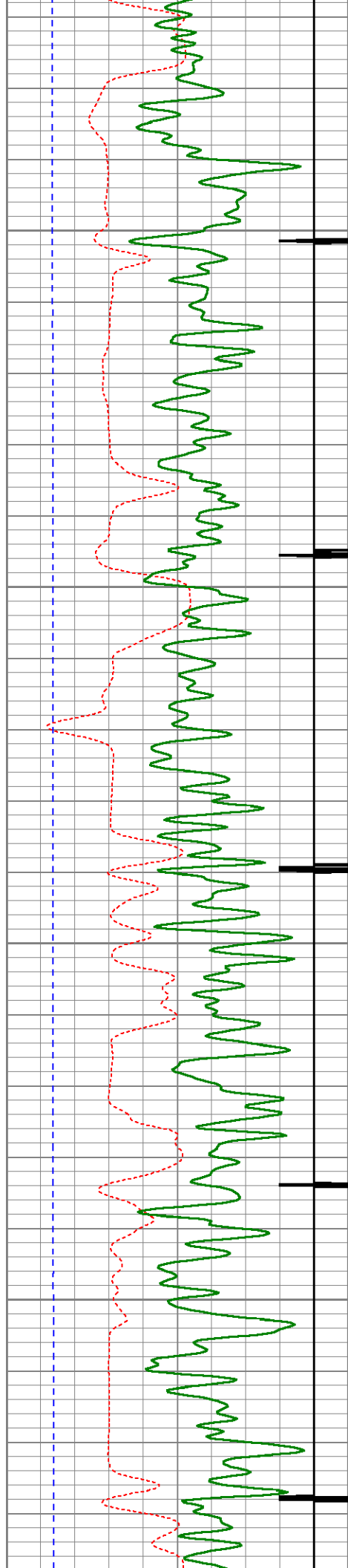
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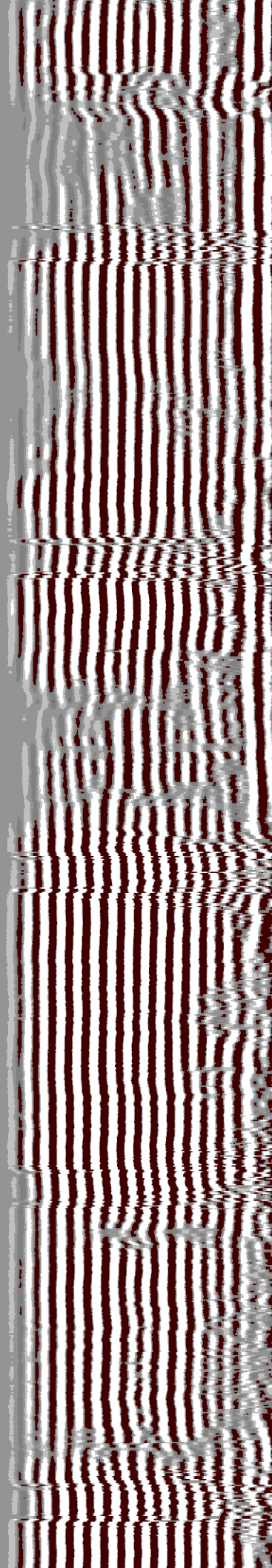


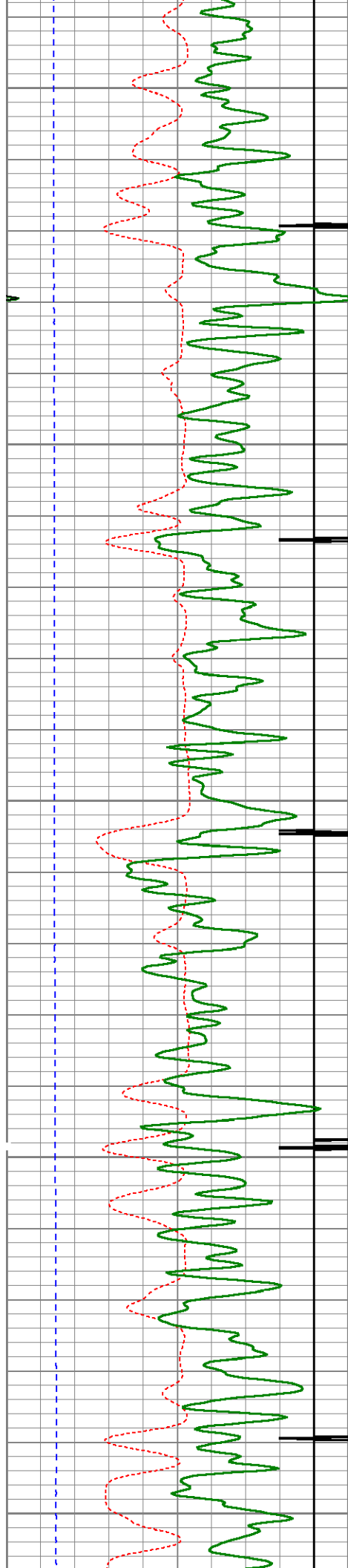
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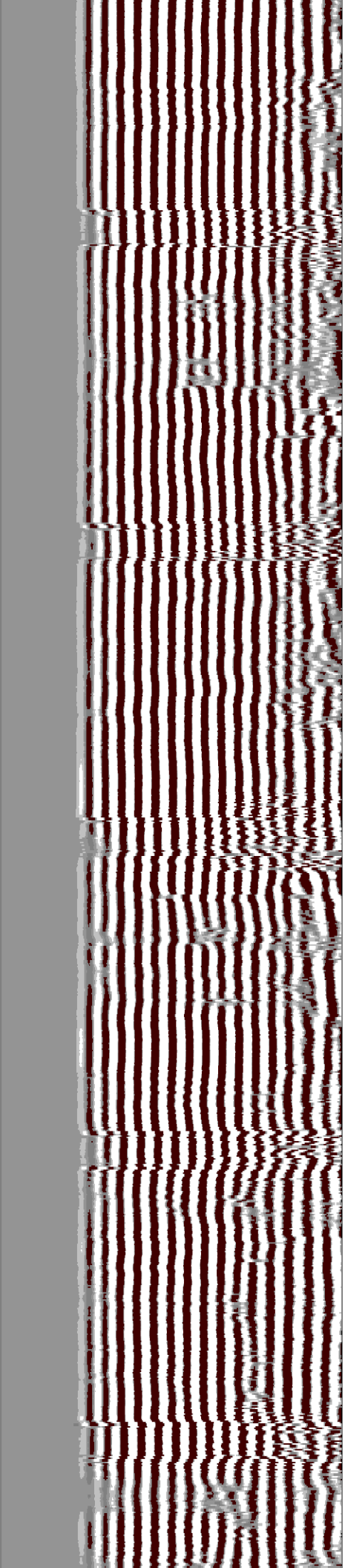
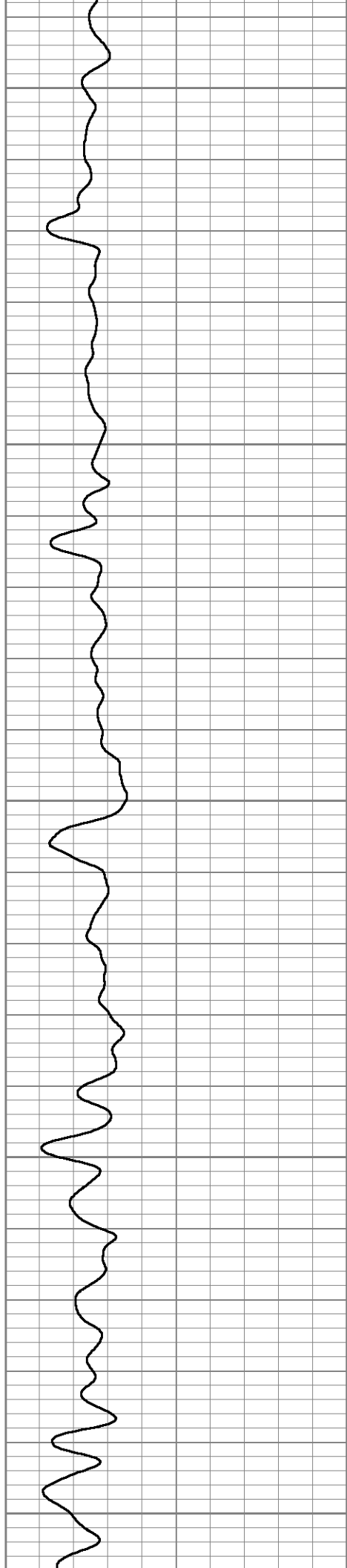
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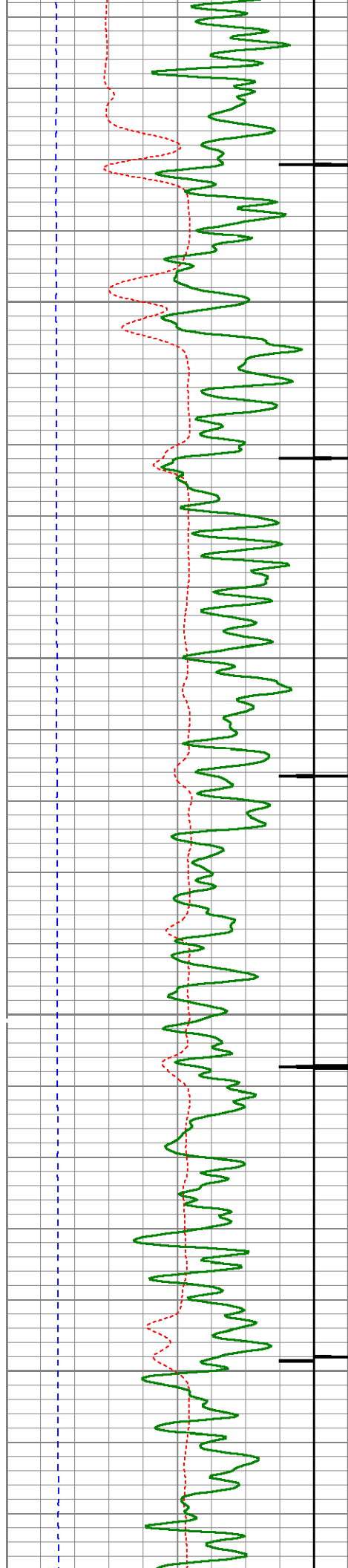
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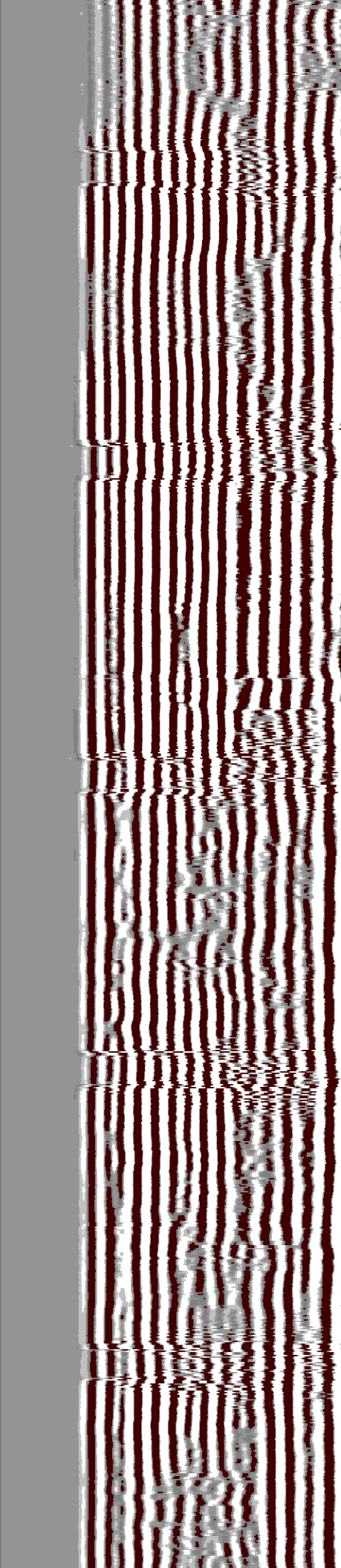
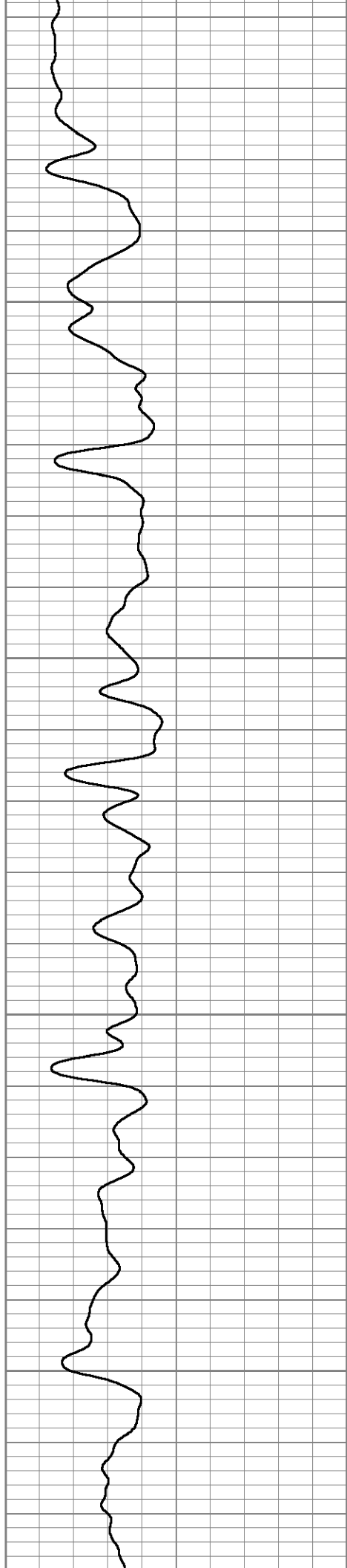


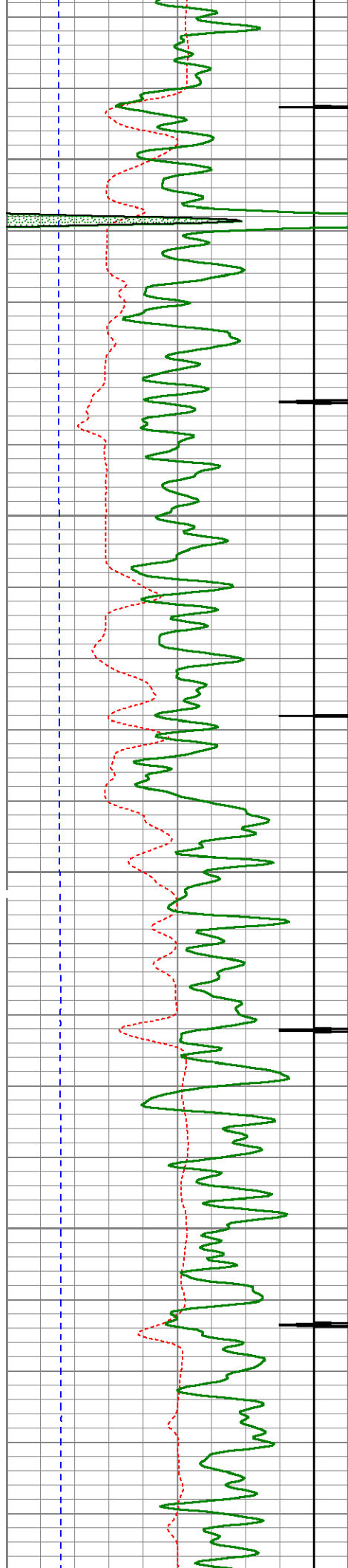
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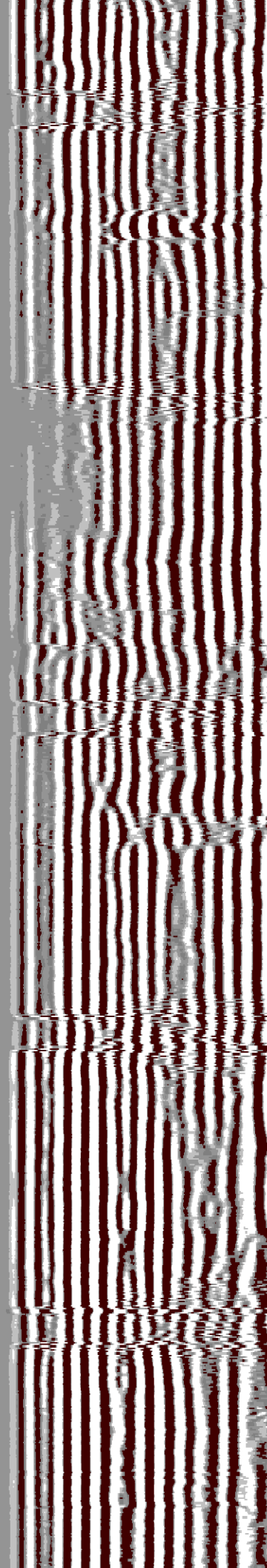
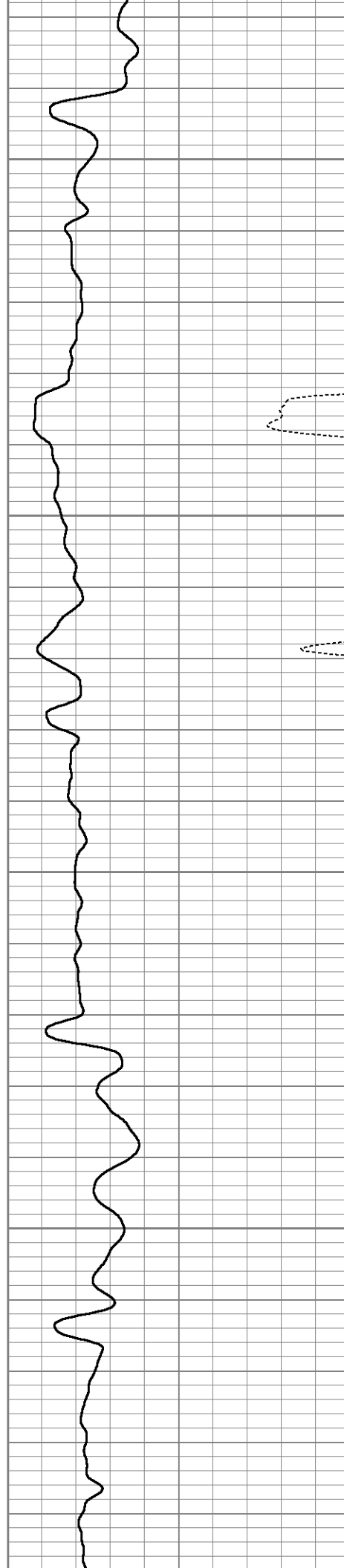


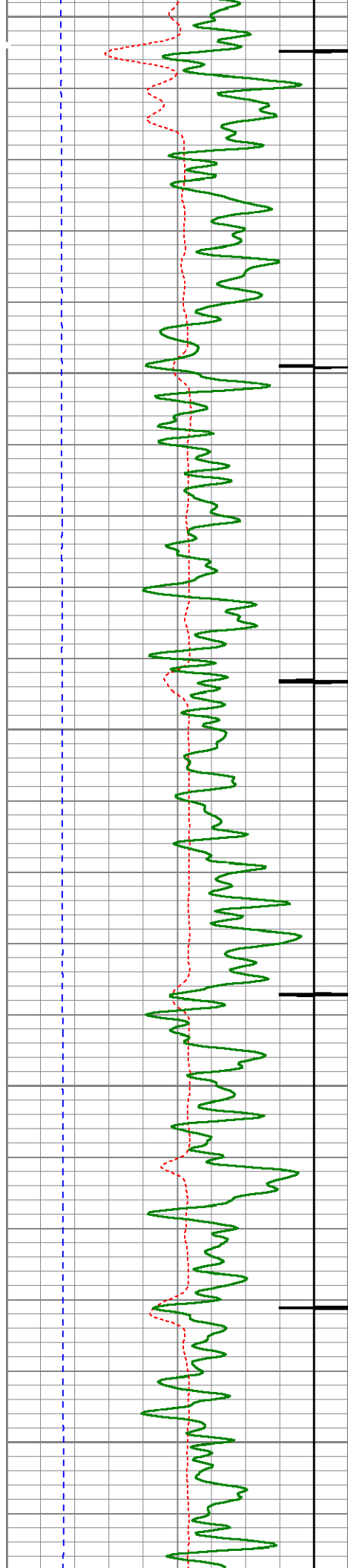
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4300





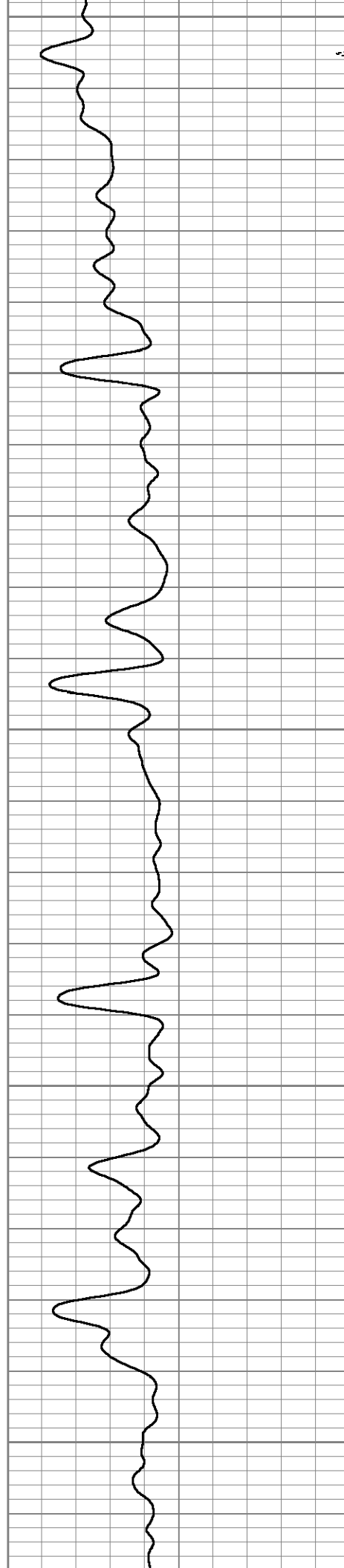
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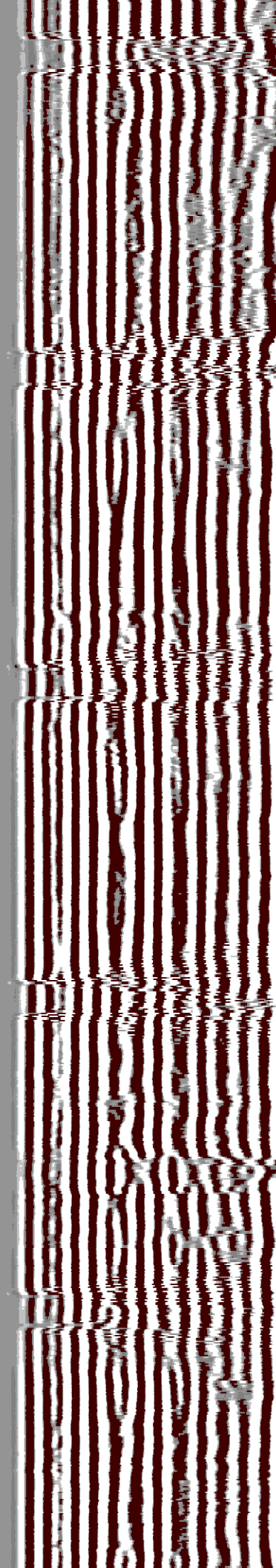
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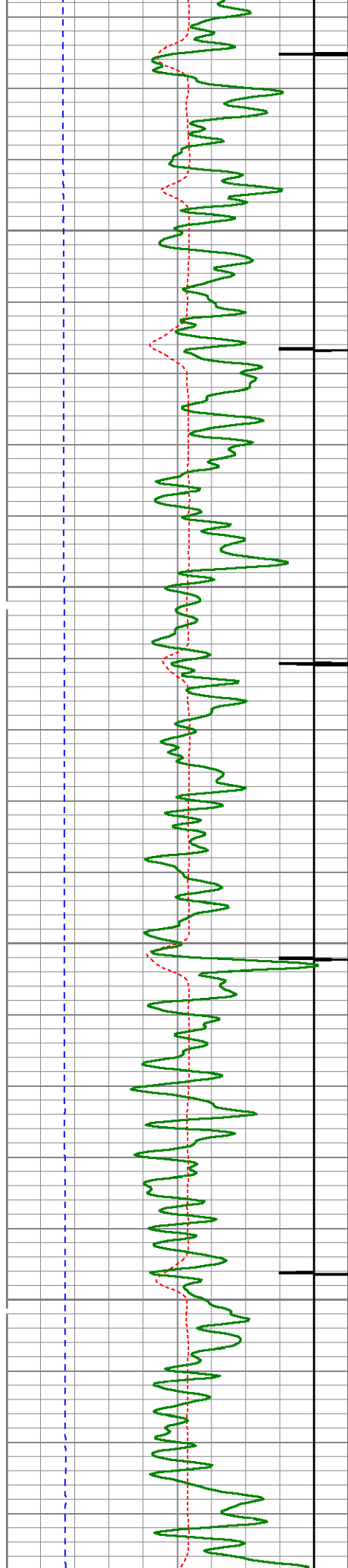
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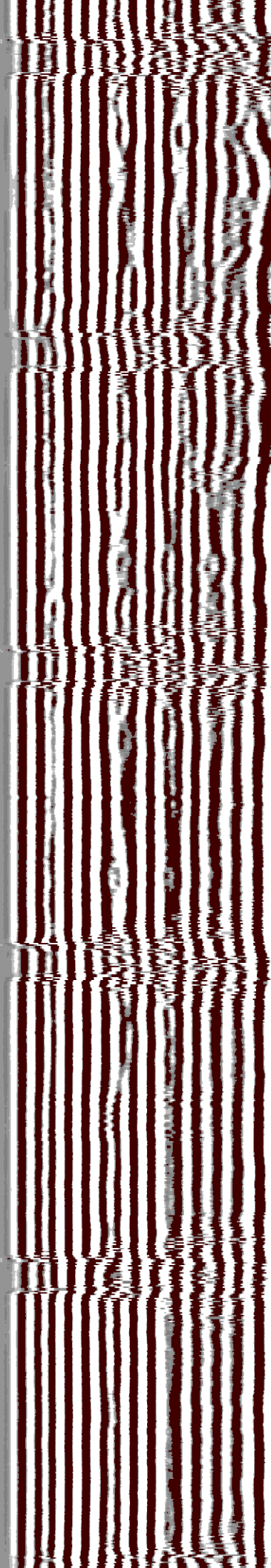
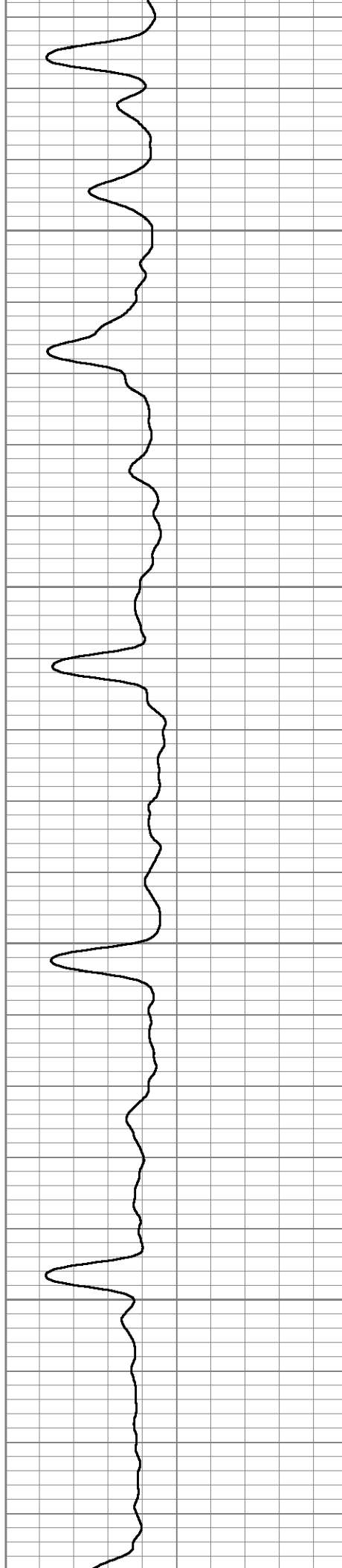


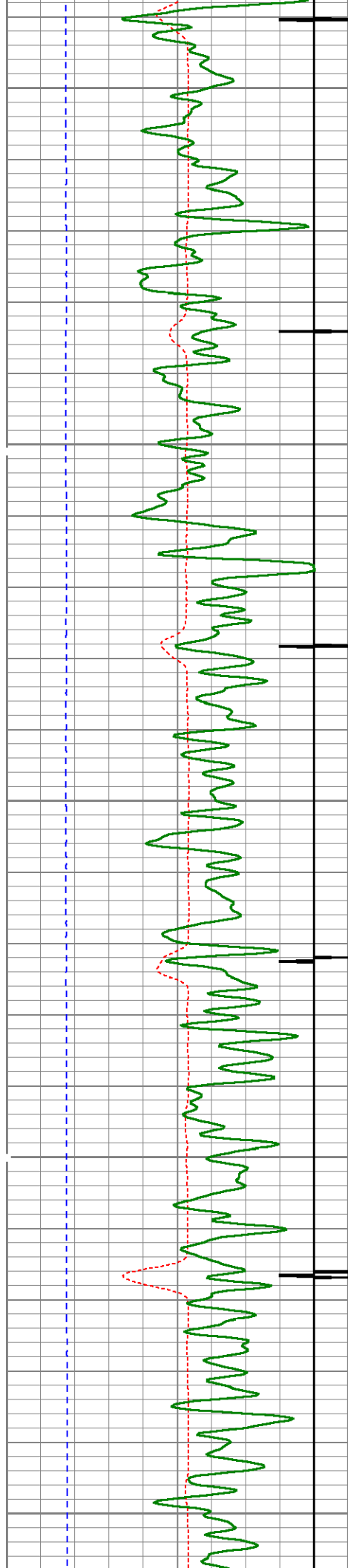
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4750





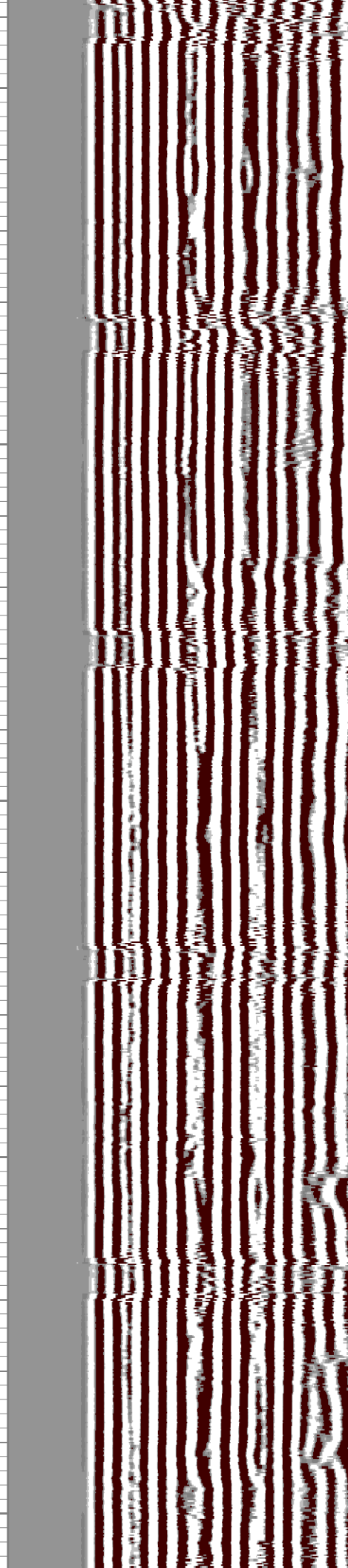
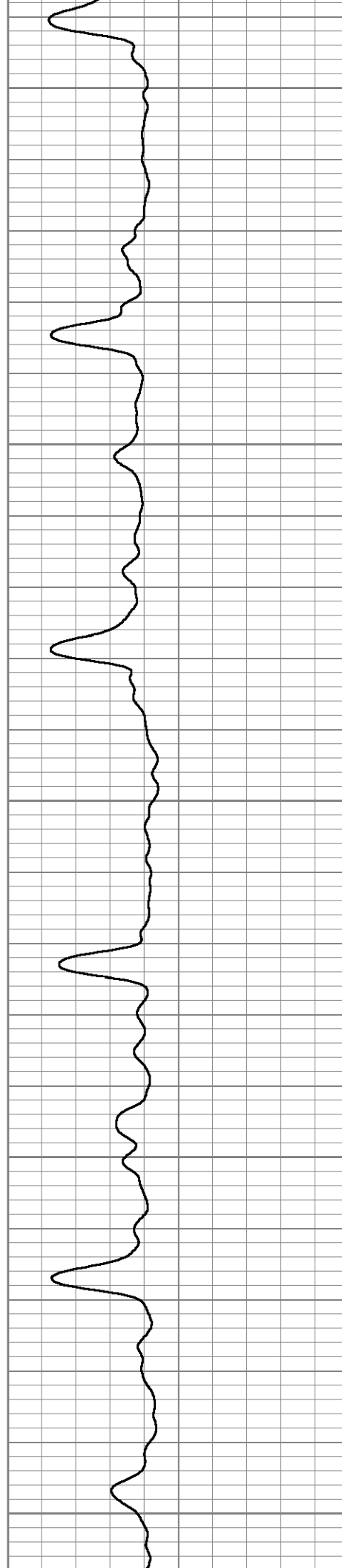
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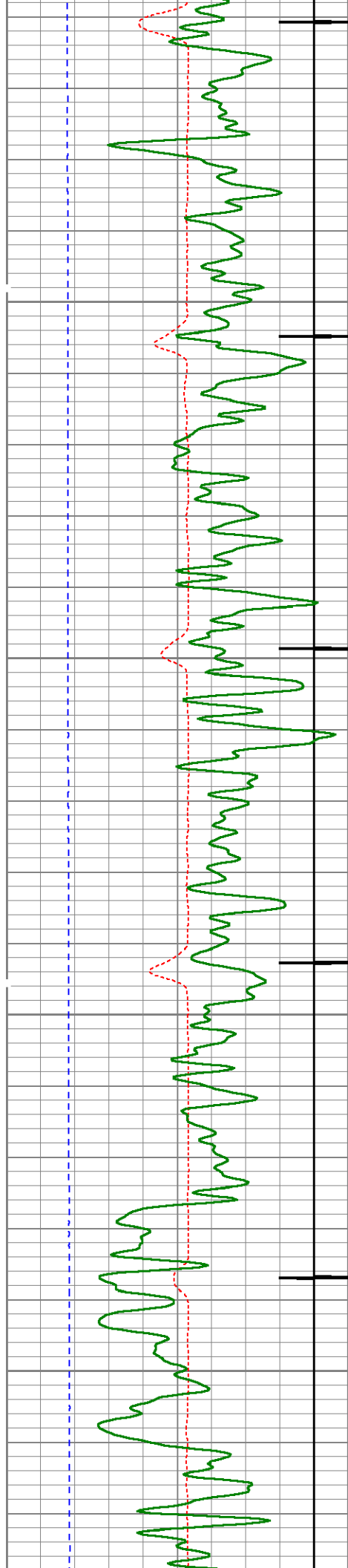
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4950

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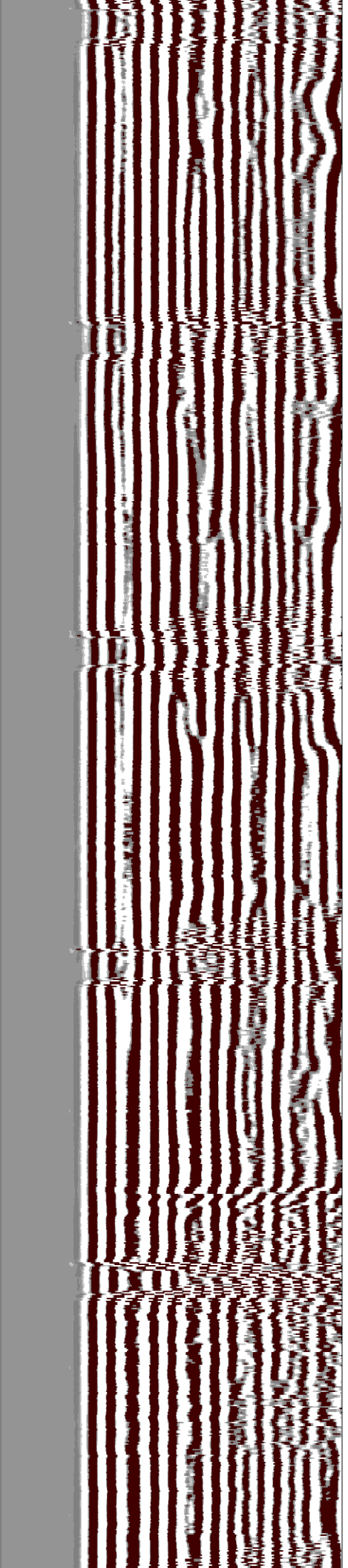
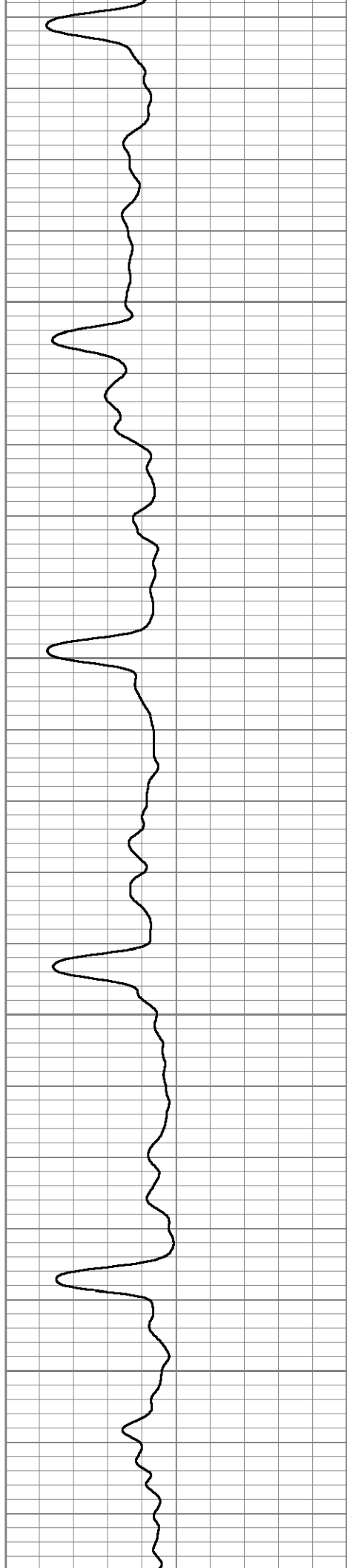


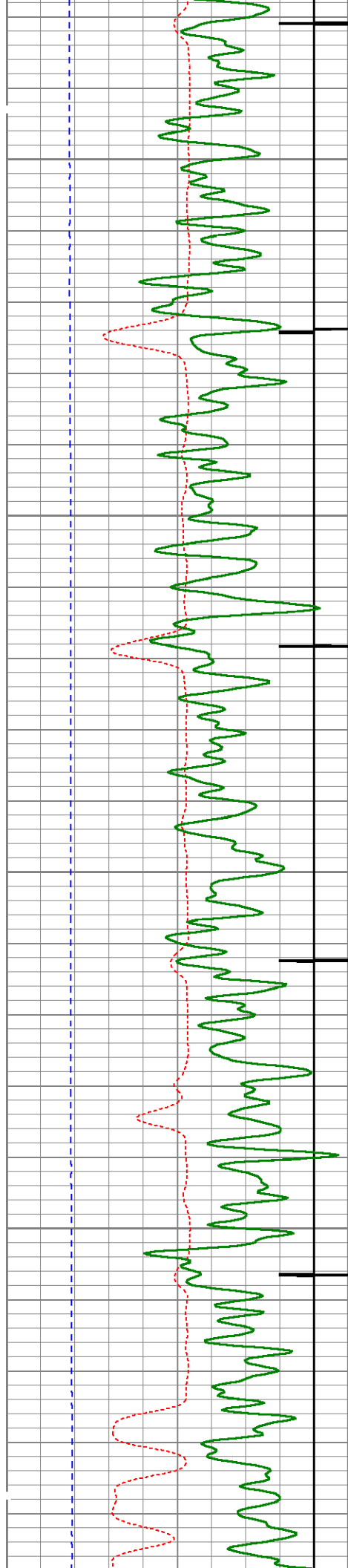
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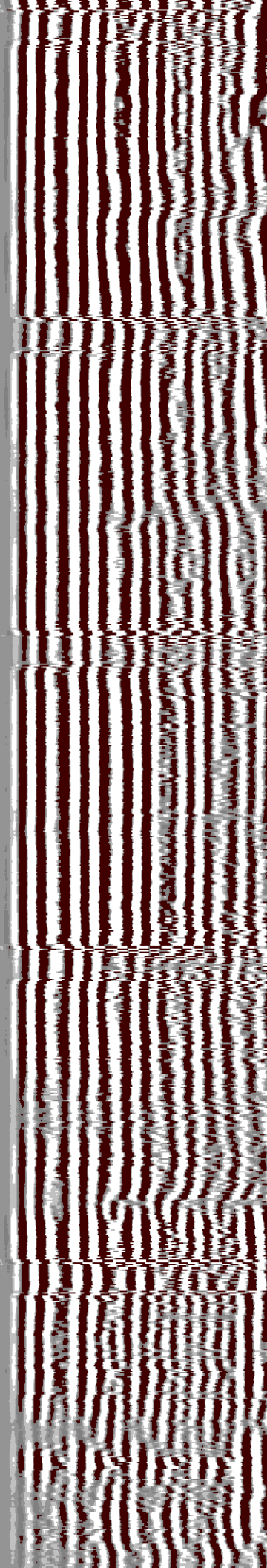
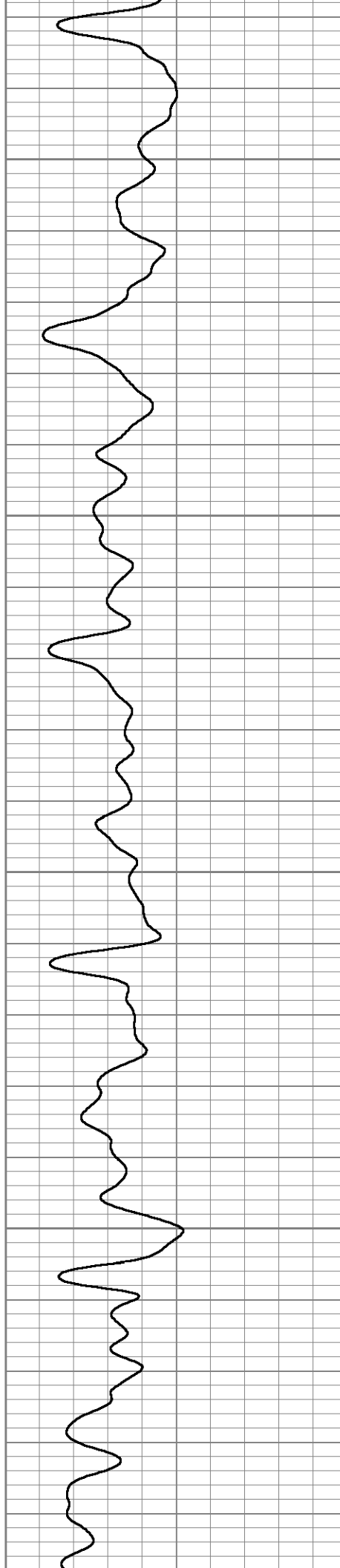


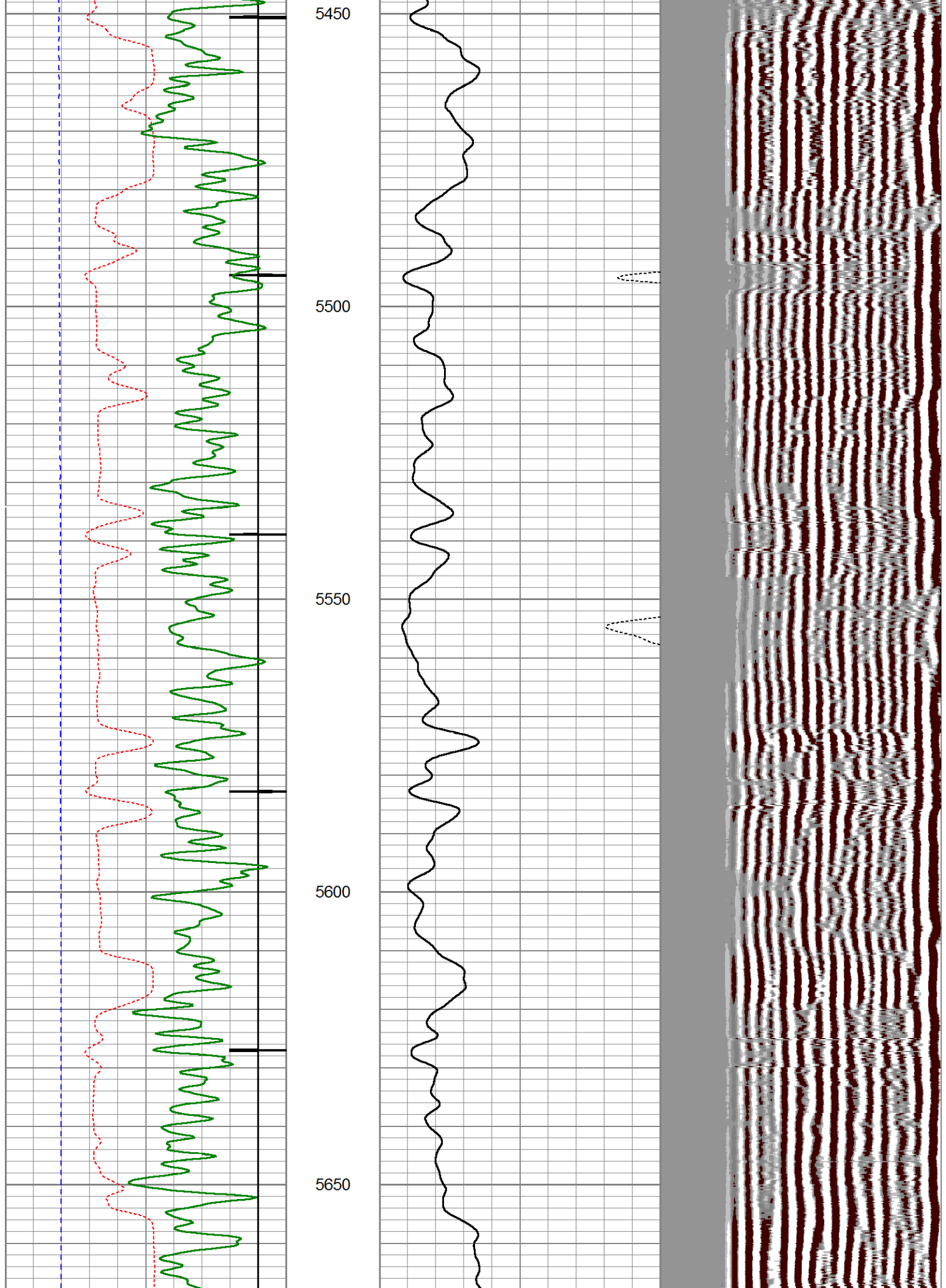
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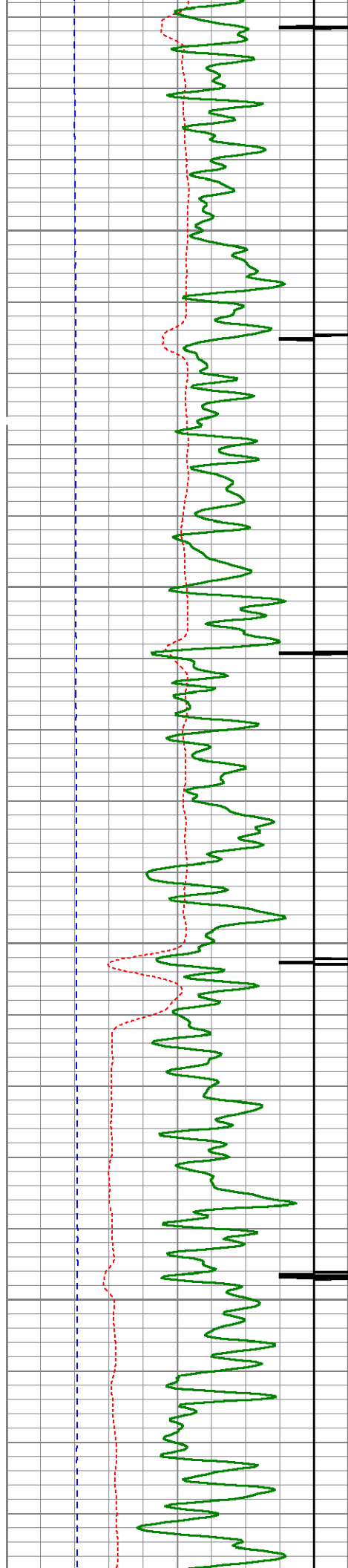
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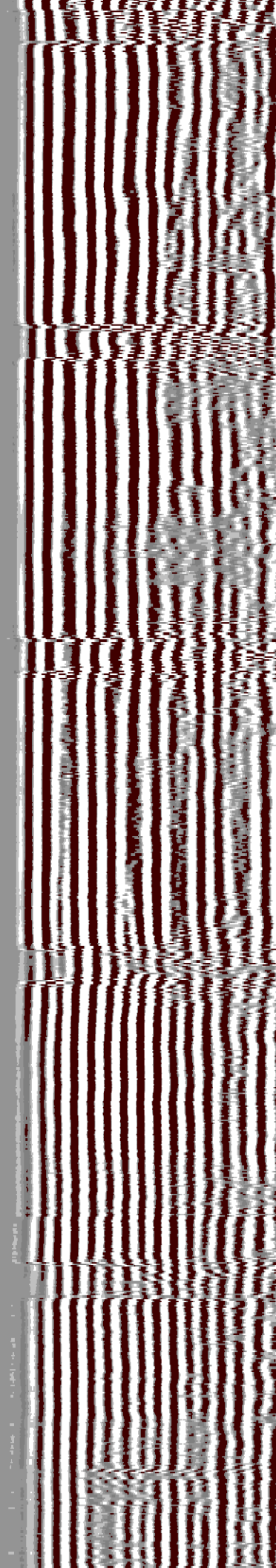
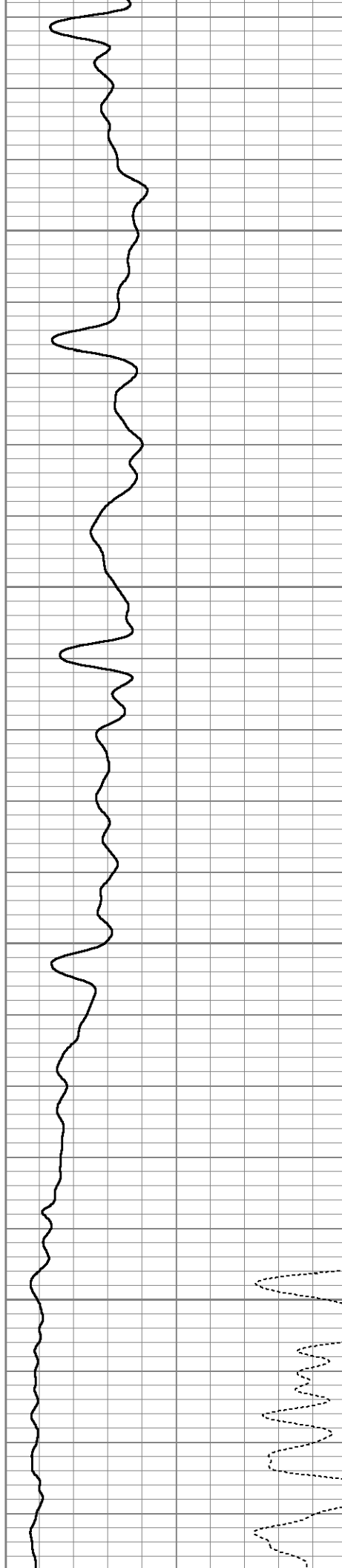


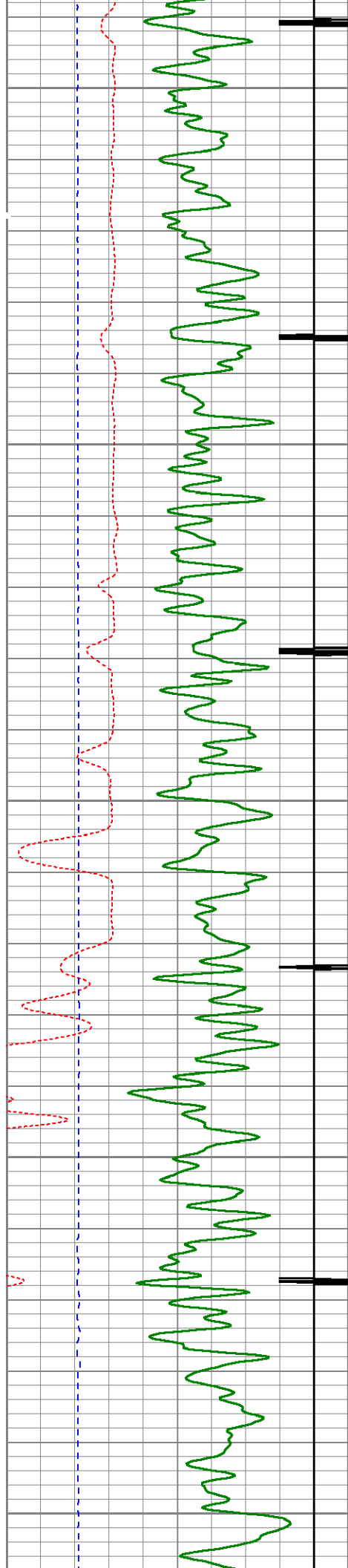
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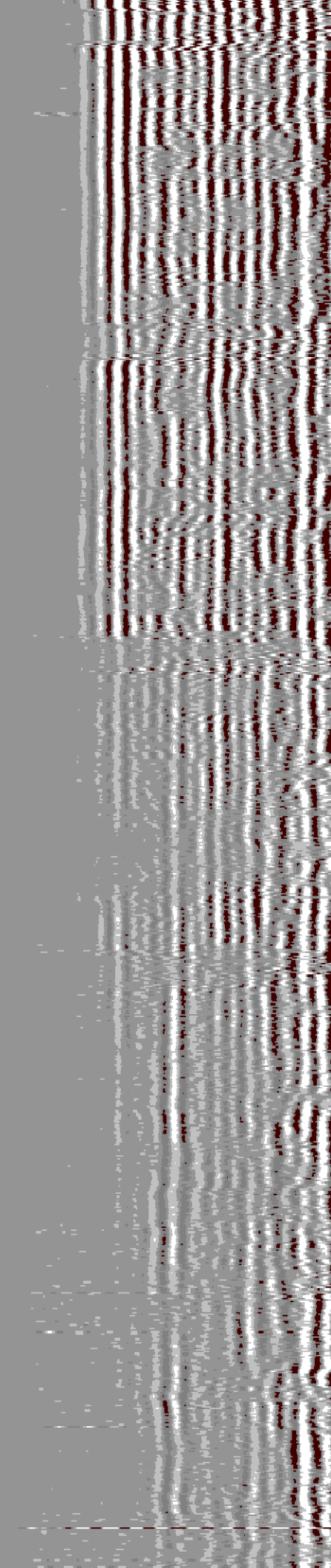
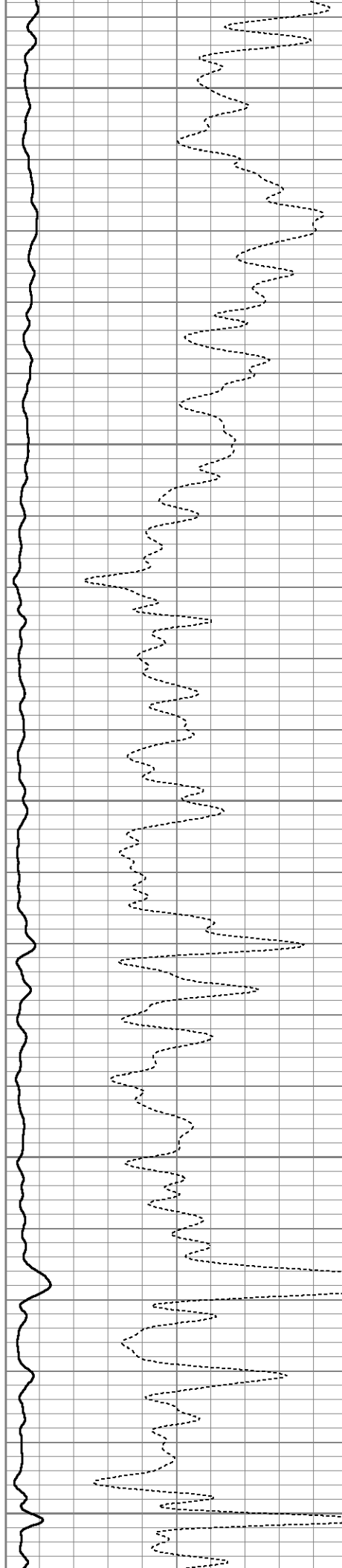
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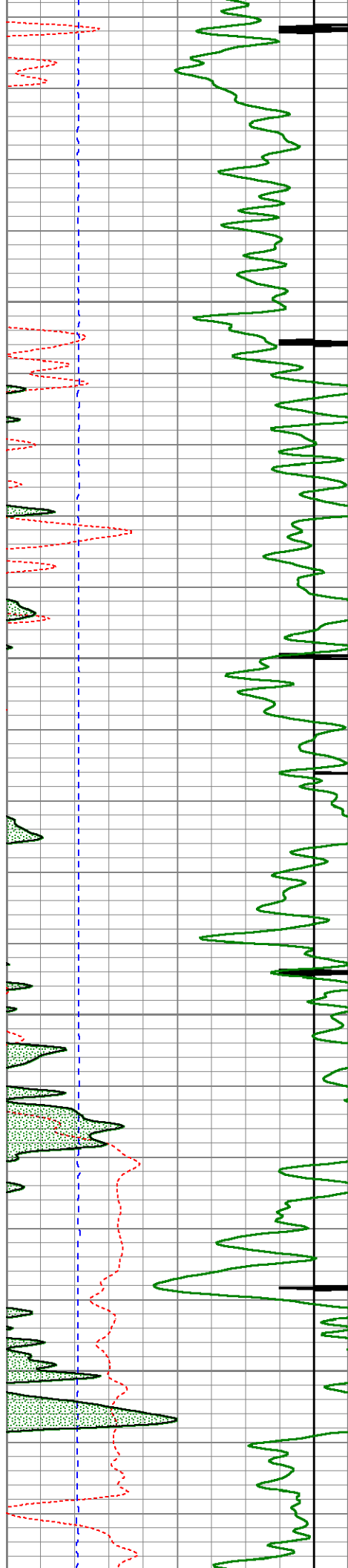
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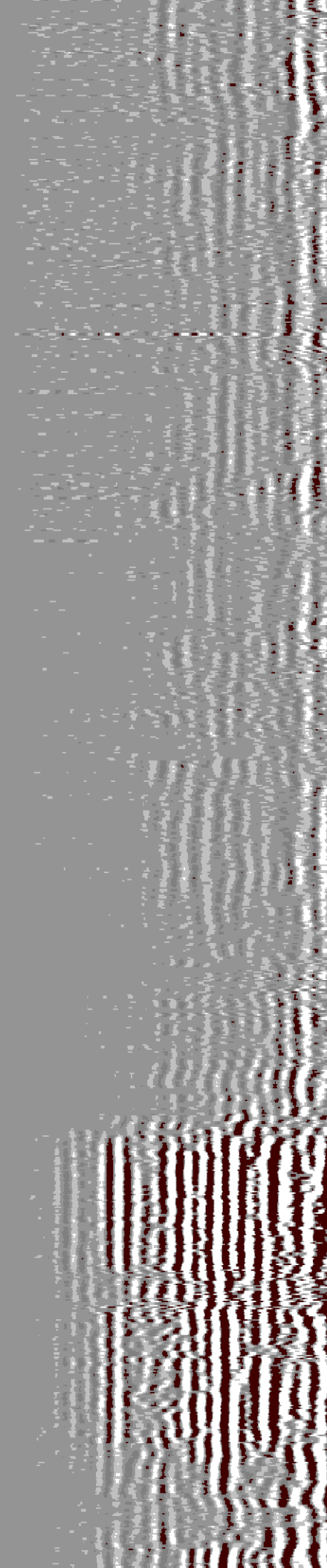
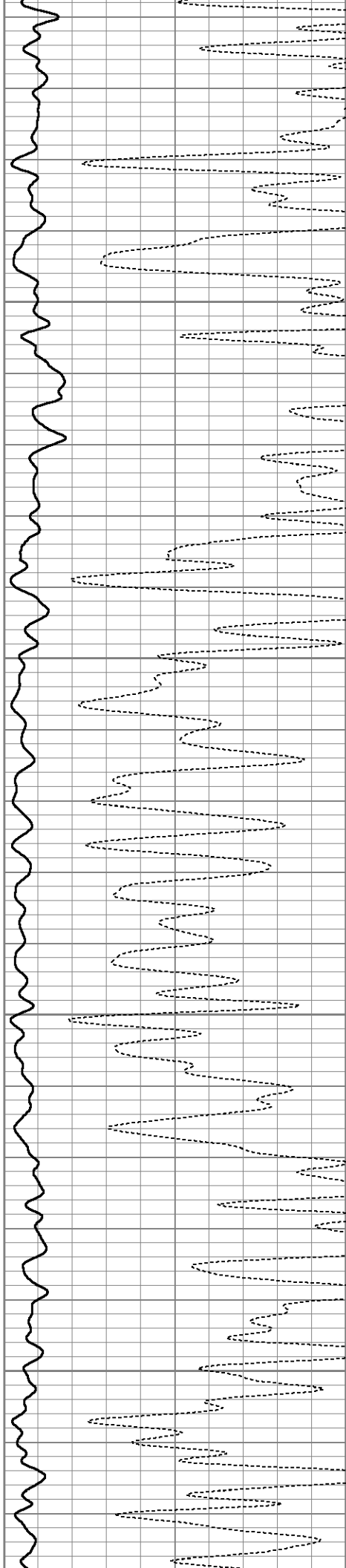


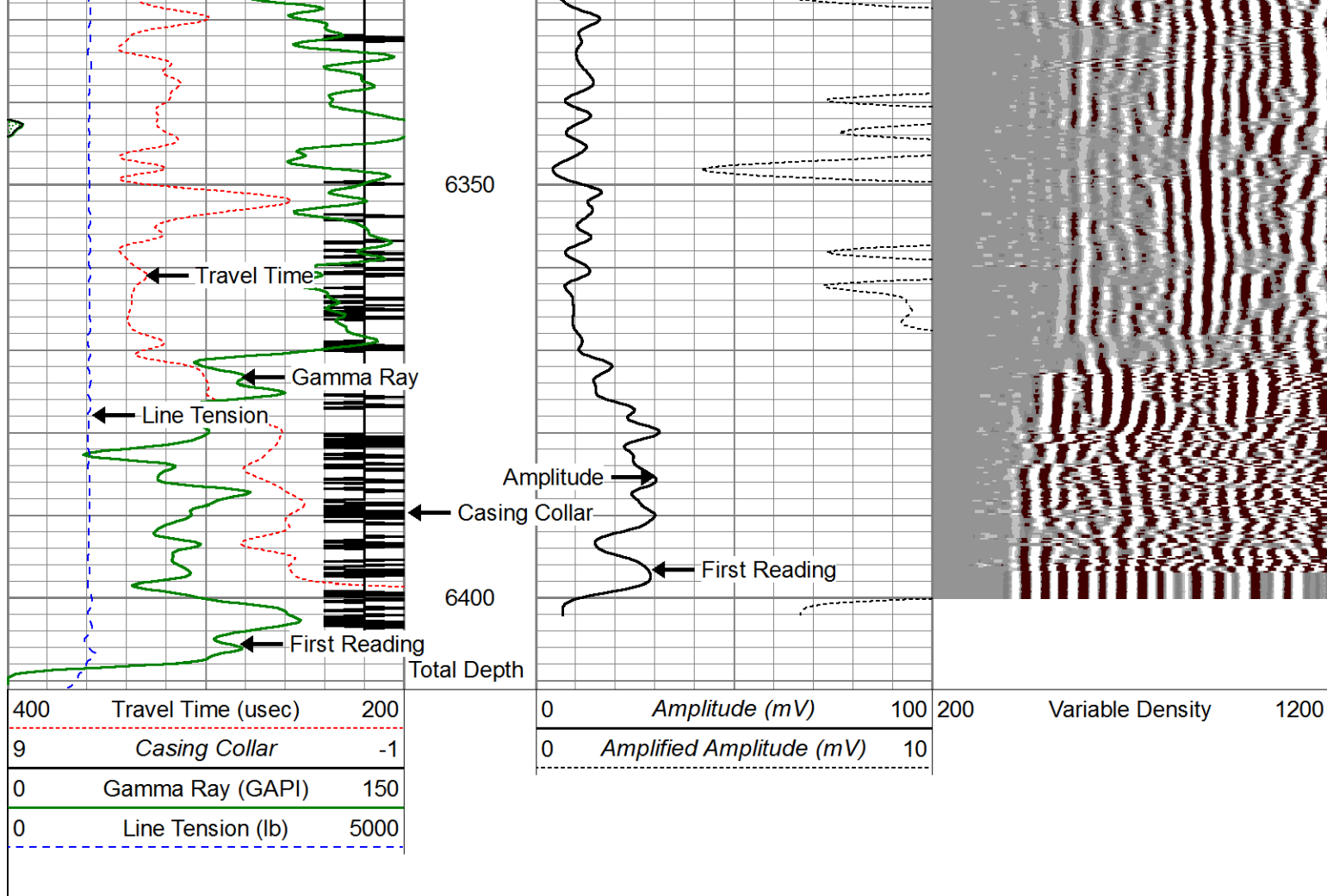
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6200

6250

6300

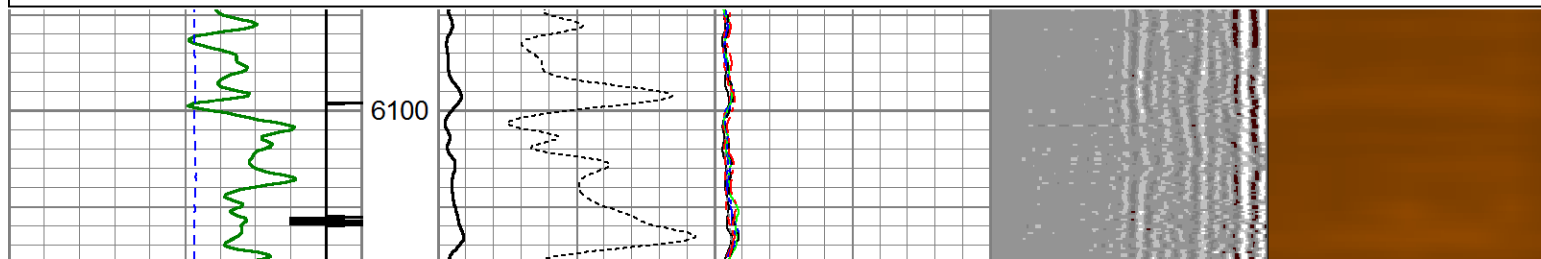


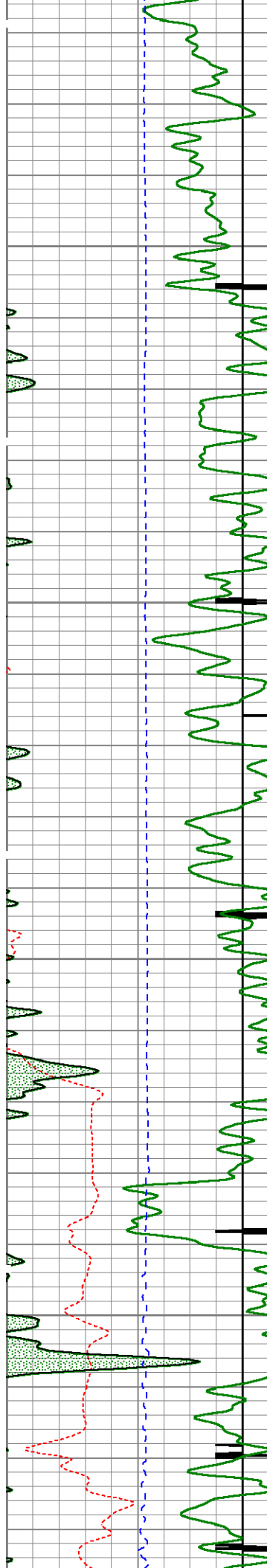


Repeat Pass - 0 PSI

Database File: c:\warrior\data\cased hole\bonanza creek\bonanza_creek_seventy_holes_t_p_5hb\bonanza_creek_seven
 Dataset Pathname: pass3.1
 Presentation Format: cblprobe
 Dataset Creation: Thu Sep 26 15:52:21 2013 by Calc 0
 Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	AMPS1	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1		Amplified Amplitude		-5	AMPS2	150	200	1200	0	100
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	AMPS3	150				
0	Line Tension (lb)	2000				-5	AMPS4	150				
						-5	AMPS5	150				
						-5	AMPS6	150				
						-5	AMPS7	150				
						-5	AMPS8	150				



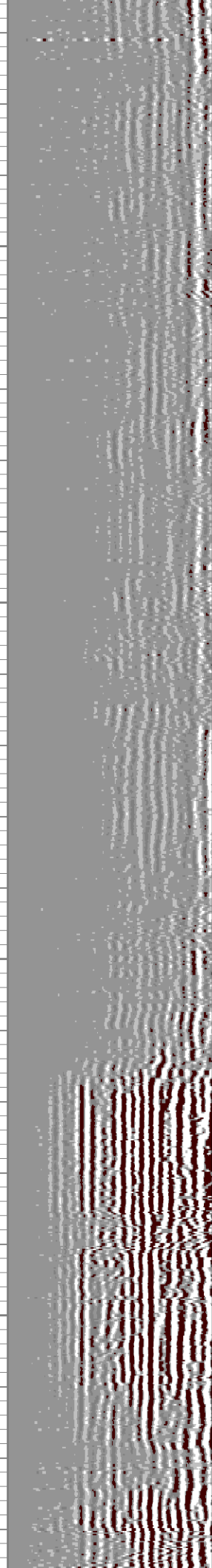
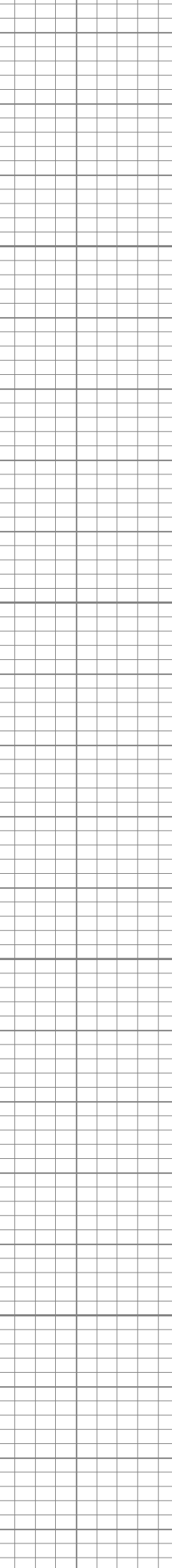
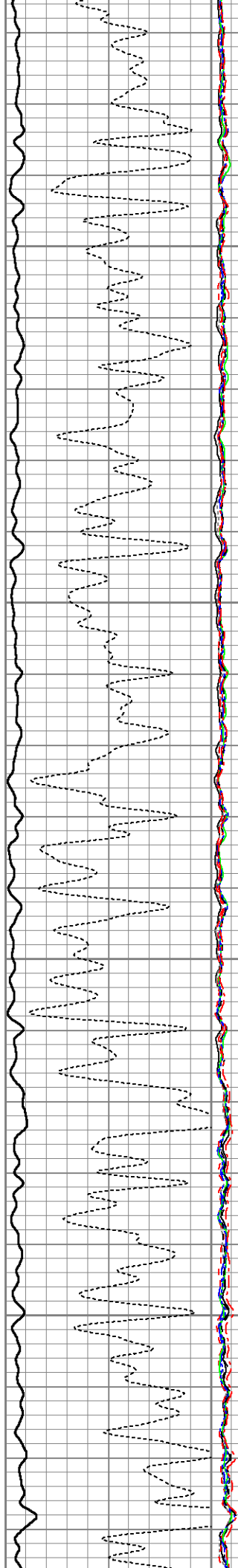


6150

6200

6250

6300



Segmented Cement Bond Log Calibration Report

Serial Number: 101224
 Tool Model: Probe
 Calibration Casing Diameter: 5.500 in
 Calibration Depth: -102.818 ft

Master Calibration, performed Thu Sep 26 11:29:26 2013:

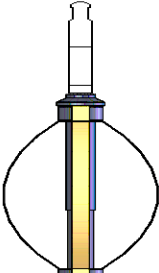
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	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.027	0.722	1.500	71.921	100.968	4.060
CAL	-0.026	0.734				
5'	-0.024	0.802	1.500	71.921	85.265	3.565
SUM						
S1	0.017	0.759	0.000	100.000	134.781	-0.236
S2	-0.016	0.732	0.000	100.000	133.647	2.121
S3	-0.018	0.712	0.000	100.000	137.084	2.455
S4	-0.023	0.710	0.000	100.000	136.483	3.159
S5	-0.024	0.721	0.000	100.000	134.255	3.230
S6	-0.025	0.718	0.000	100.000	134.668	3.352
S7	-0.026	0.699	0.000	100.000	137.929	3.541
S8	-0.027	0.721	0.000	100.000	133.821	3.579

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	-0.026	0.734	1.000	0.000

Air Zero Calibration, performed Thu Sep 26 11:29:58 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	-0.027		0.000		-0.000	
5'	-0.024		0.000		-0.000	
SUM						
S1	0.017		0.000		-0.000	
S2	-0.016		0.000		0.000	
S3	-0.018		0.000		0.000	
S4	-0.023		0.000		-0.000	
S5	-0.024		0.000		0.000	
S6	-0.025		0.000		-0.000	
S7	-0.026		0.000		-0.000	
S8	-0.027		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

