



CEMENT BOND
VARIABLE DENSITY LOG
W/ GAMMA RAY/ CCL

Company		Bonanza Creek Energy	
Well		State Seventy Holes 34-31-6HNB	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		AP1 # : 05-123-37914	
SEC 6		TWP 54N	
RGE 62 W		Elevation	
Permanent Datum		Ground Level	
Log Measured From		Kelly Bushing	
Drilling Measured From		Kelly Bushing	
Date		October 5th, 2013	
Run Number		ONE	
Depth Driller		10991'	
Depth Logger		6469'	
Bottom Logged Interval		6455'	
Top Log Interval		Surface	
Open Hole Size		8.75	
Type Fluid		WATER	
Density / Viscosity		8.33	
Max. Recorded Temp.		N/A	
Estimated Cement Top		NA	
Time Well Ready		1030	
Time Logger on Bottom		1100	
Equipment Number		12029CH	
Location		BRIGHTON	
Recorded By		R.Grisson	
Witnessed By		Kurt Dodge	
Run Number		Borehole Record	
ONE		Tubing Record	
TWO		To	
THREE		From	
Casing Record		Size	
Surface String		Wgt/Ft	
Prot. String		Top	
Production String		Bottom	
Liner		To	

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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

Main Pass and Repeat Pass logged at Zero PSI

Main Pass logged from 15' KB

Your Crew for Today: T.Canfarelli, M.Bingham

Thank You for using Allied Wireline

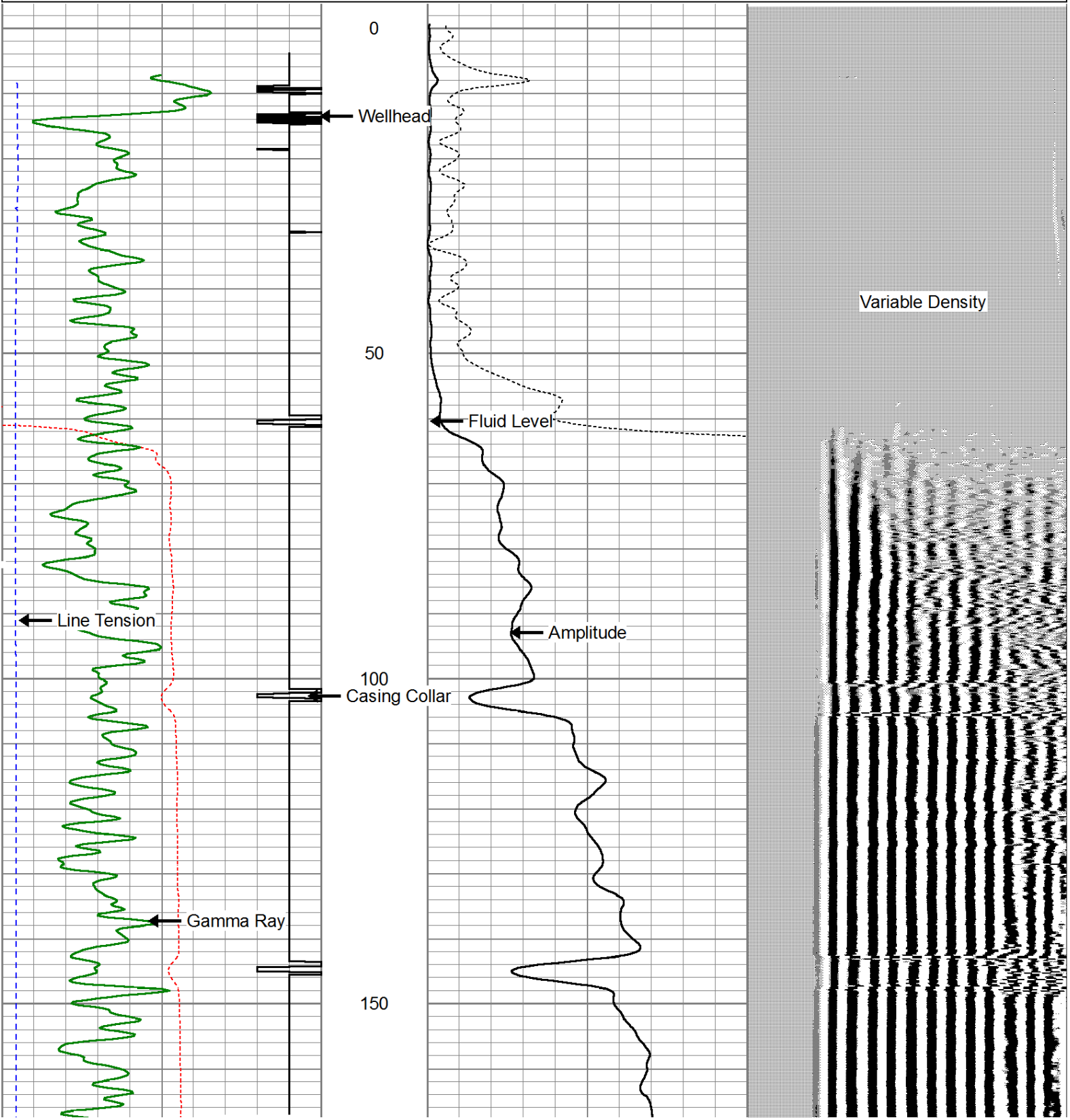
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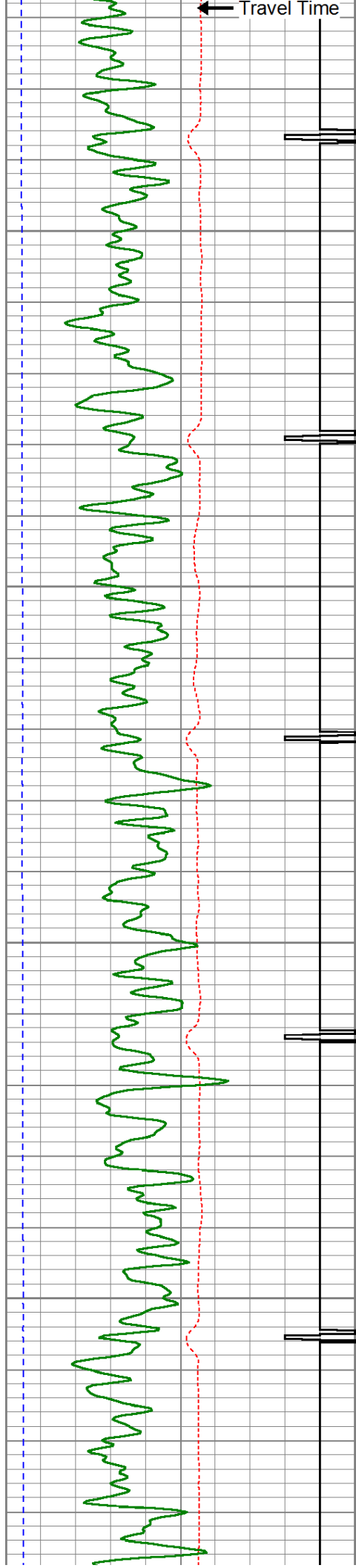


Main Pass (0 PSI)

Database File: bonanza creek sate seventy holes 34-31-6hnb_cbl.db
Dataset Pathname: pass5.3
Presentation Format: cblprobe
Dataset Creation: Sat Oct 05 12:36:14 2013 by Calc SCH 120126
Charted by: Depth in Feet scaled 1:240

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						



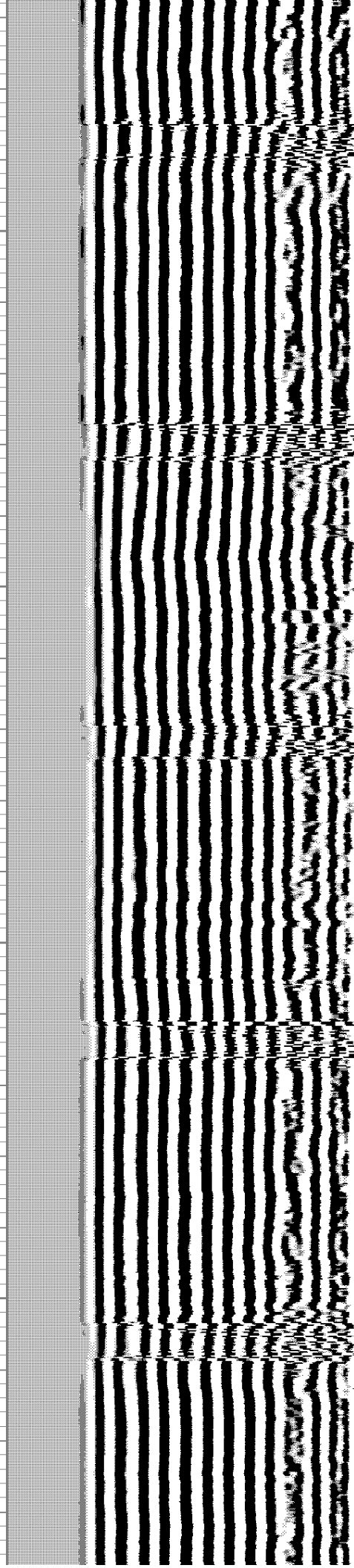
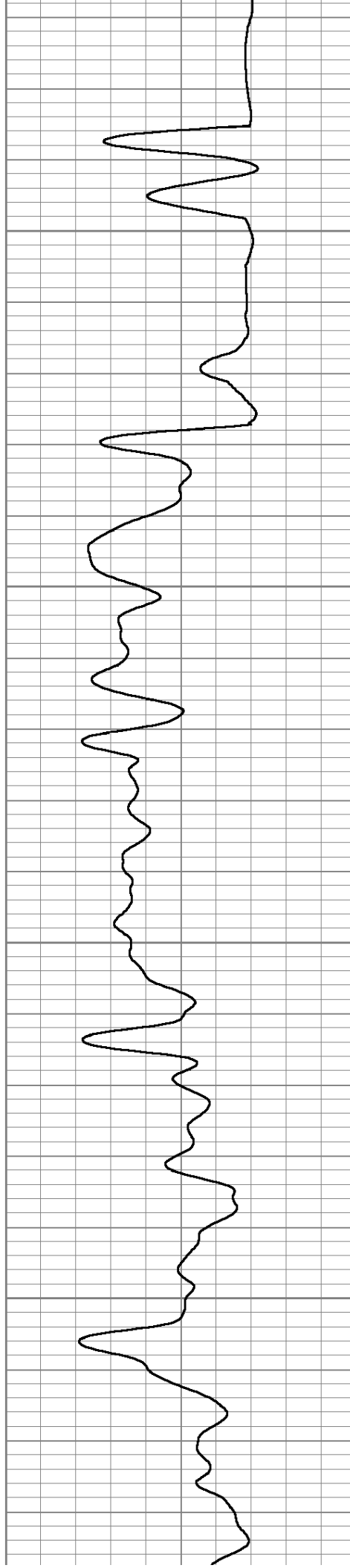


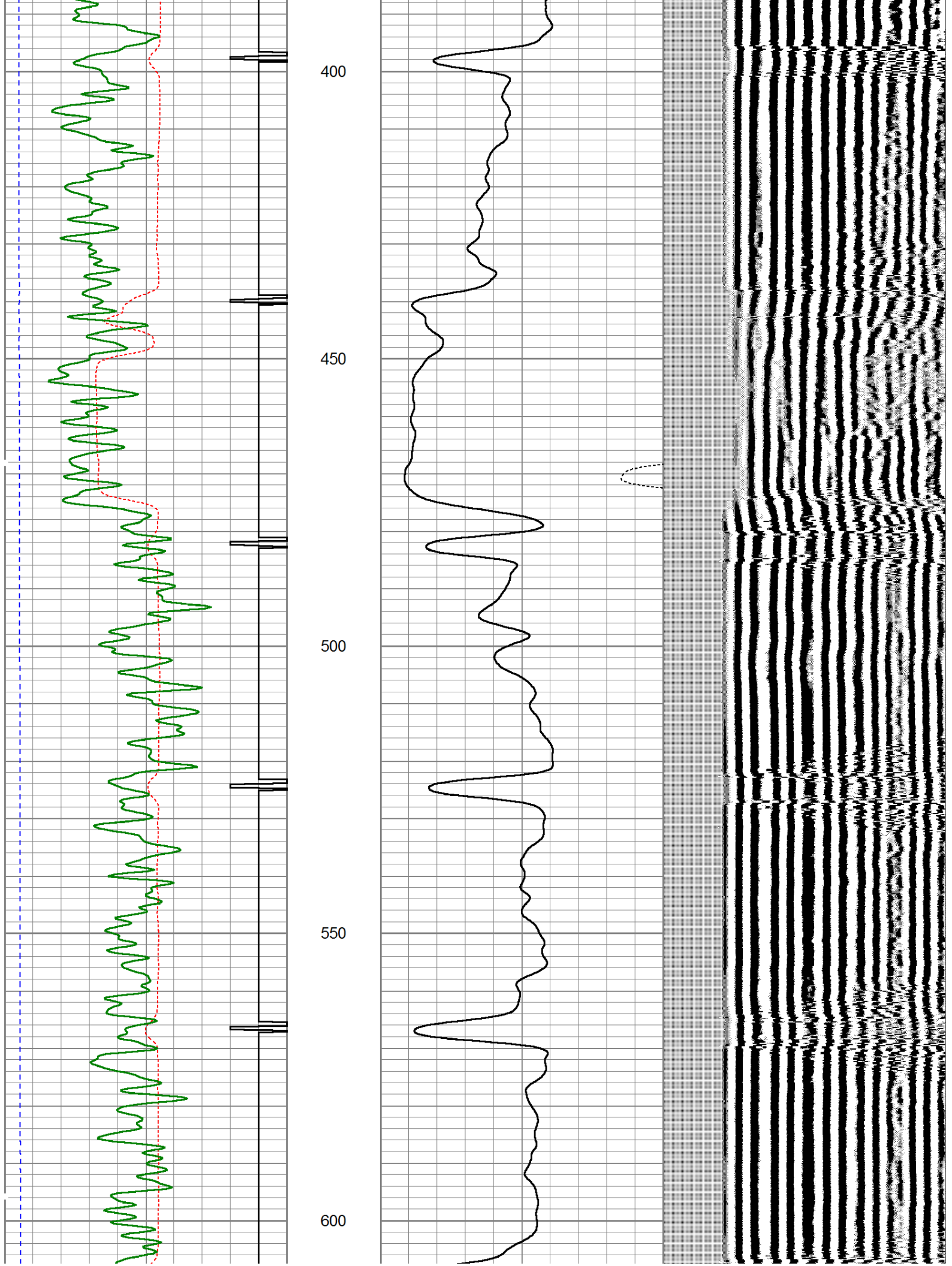
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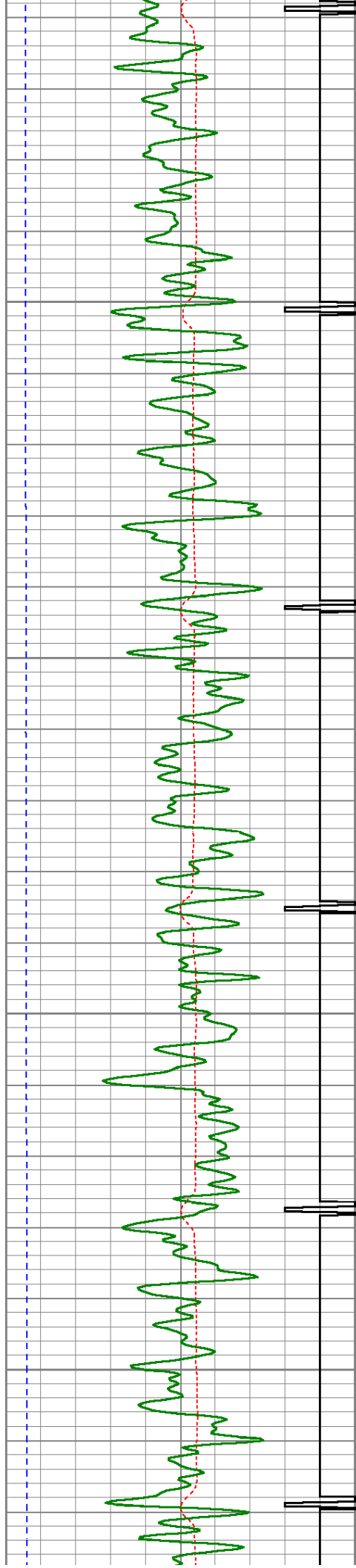
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300

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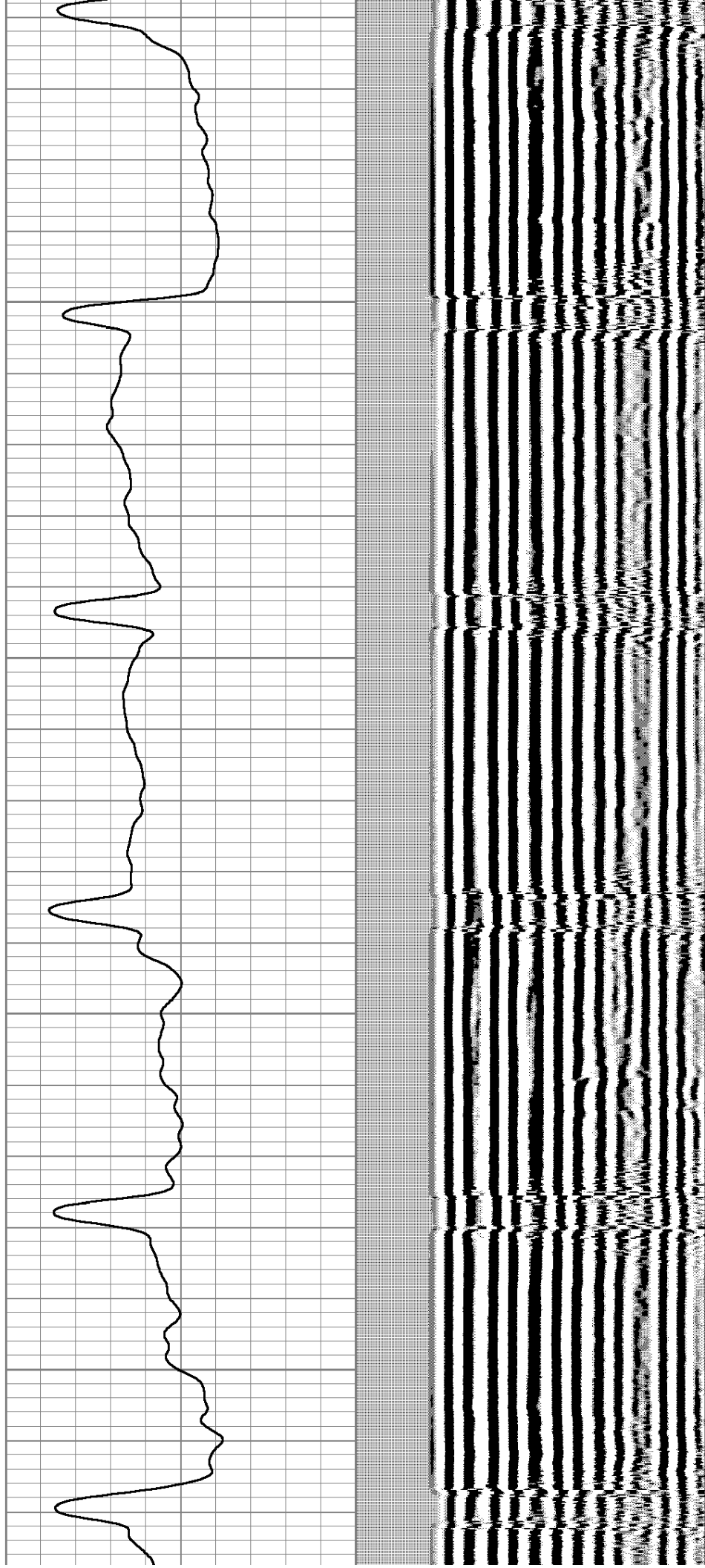


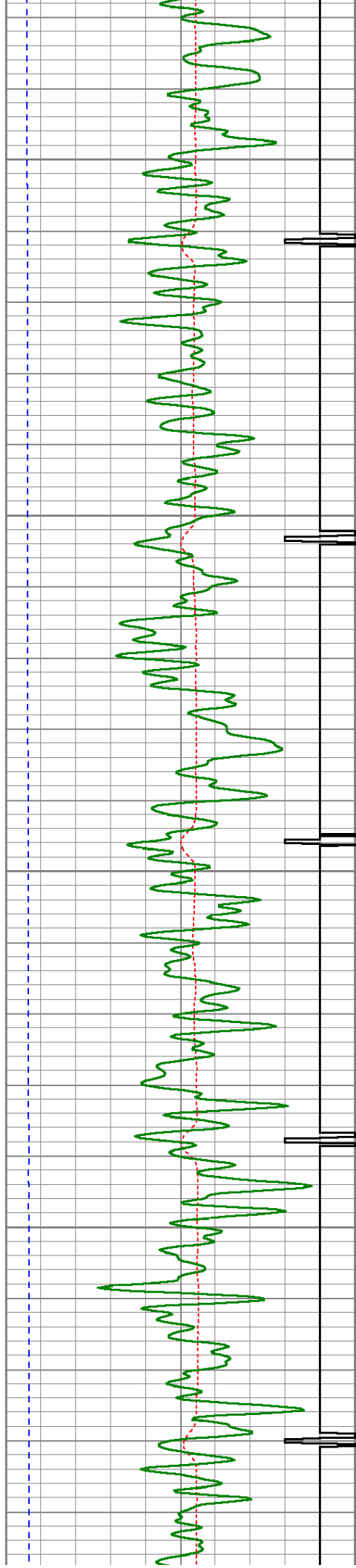
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750

800



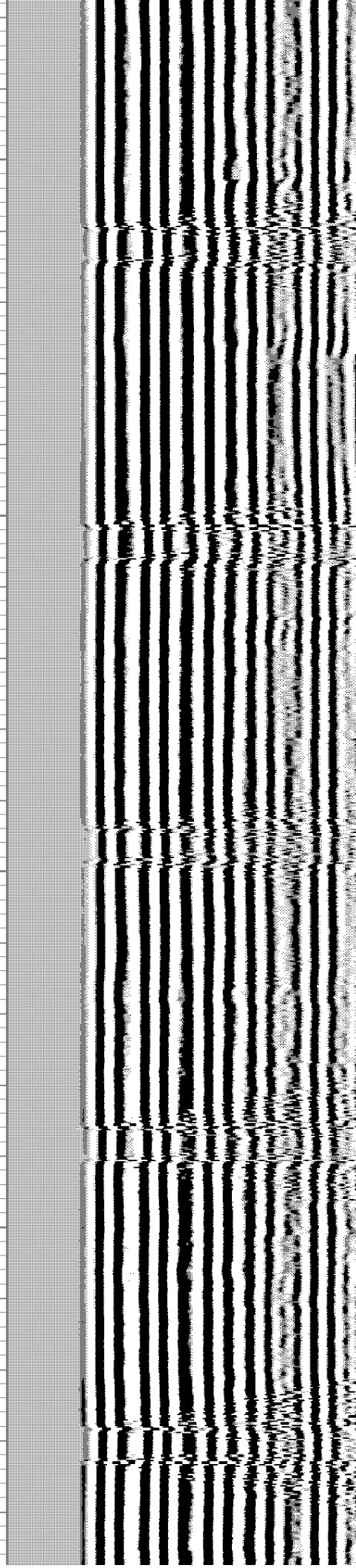
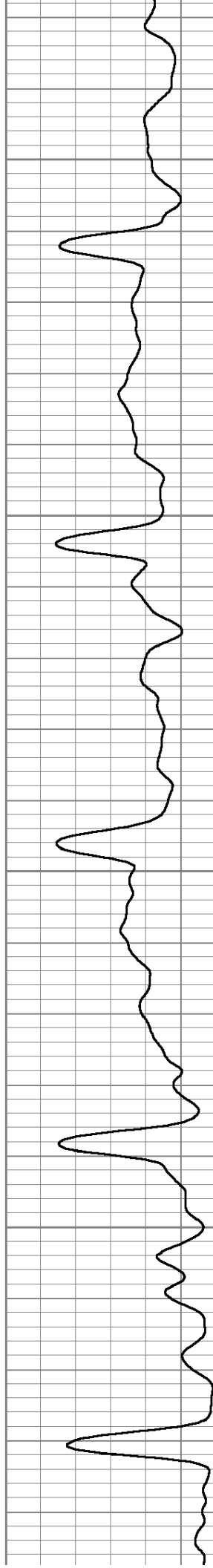


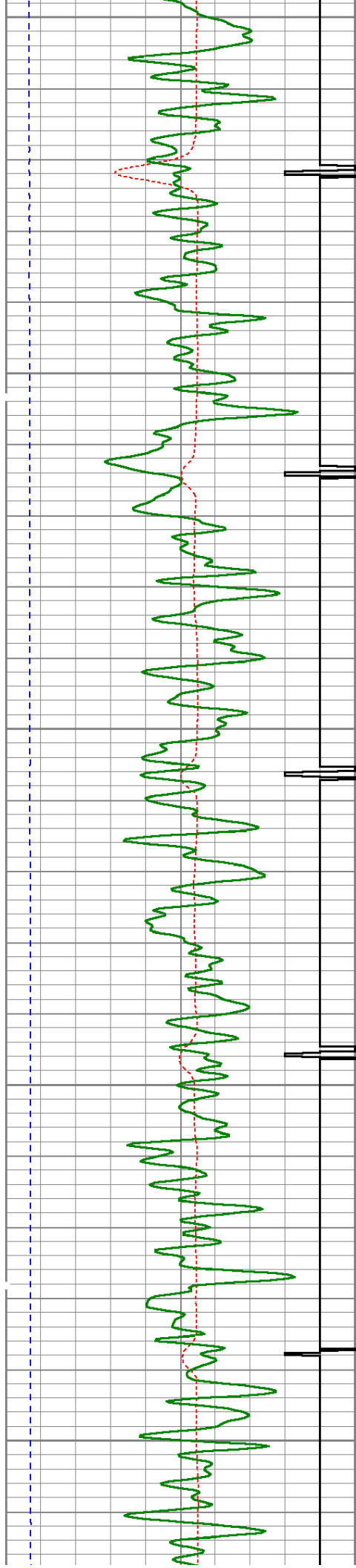
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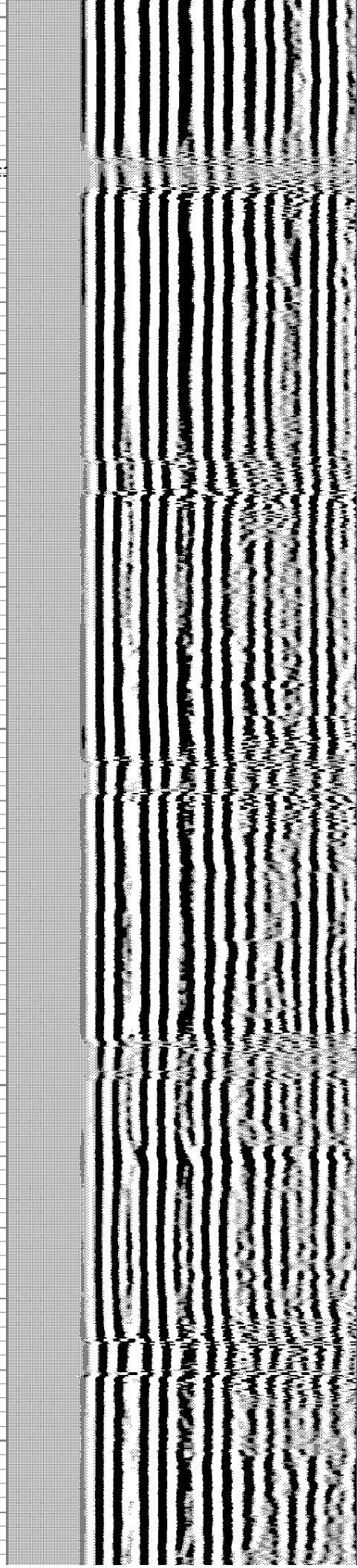
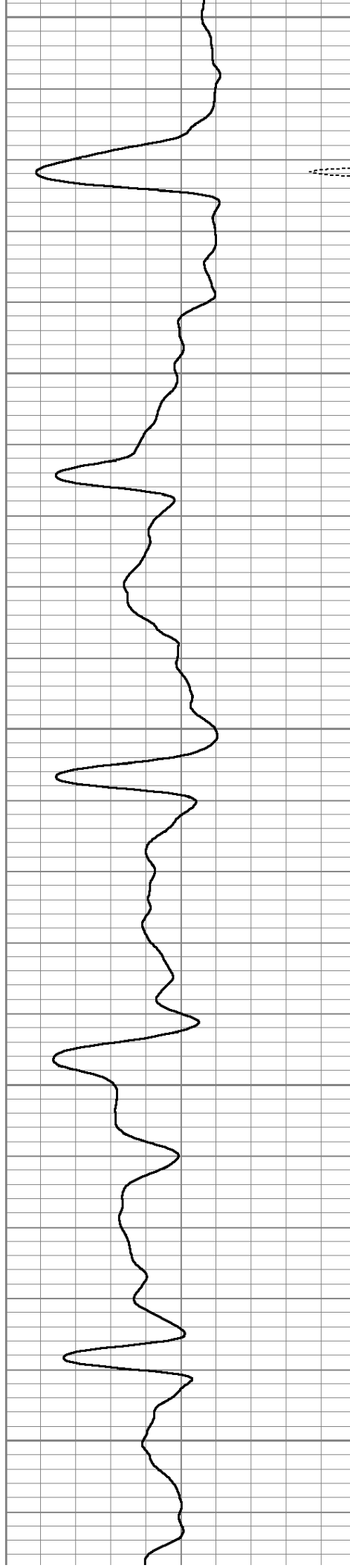
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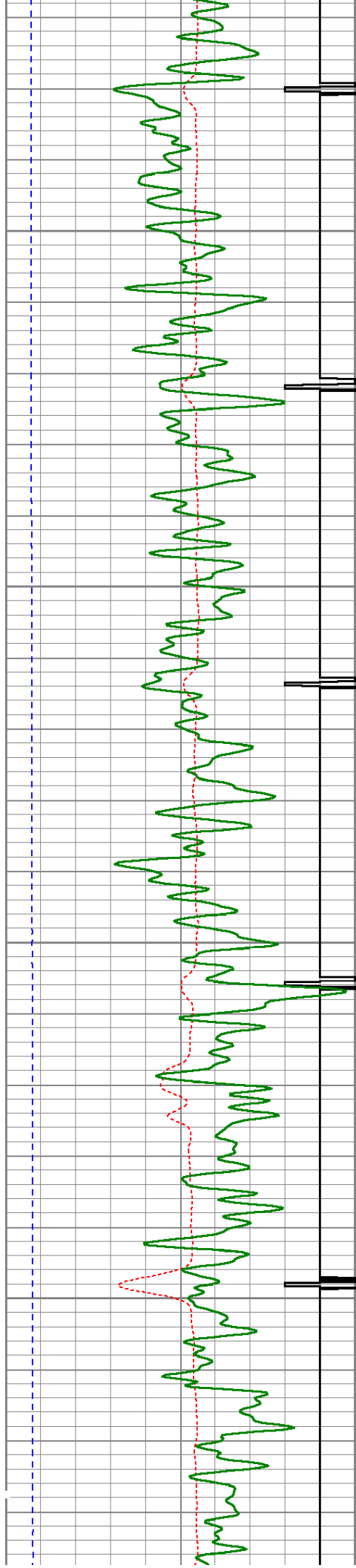
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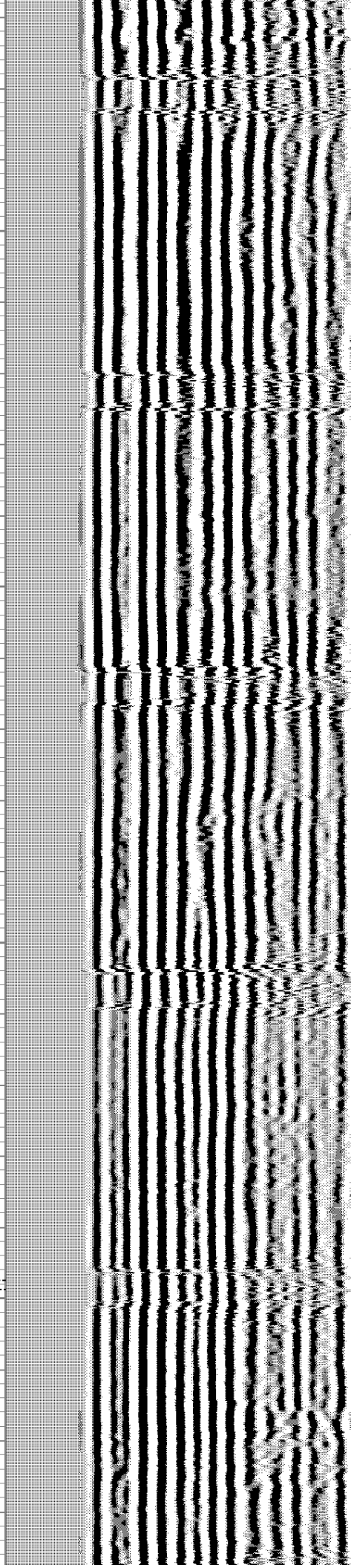
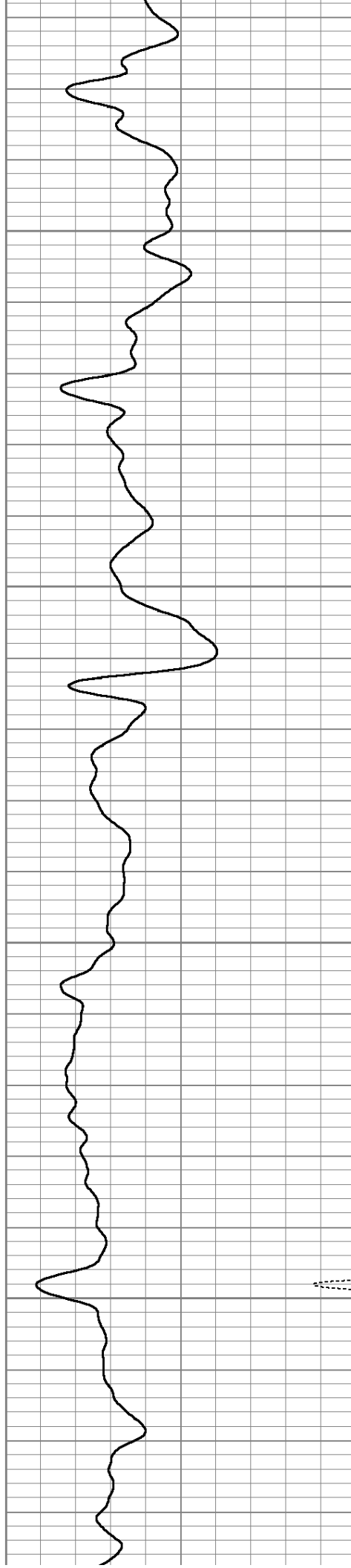


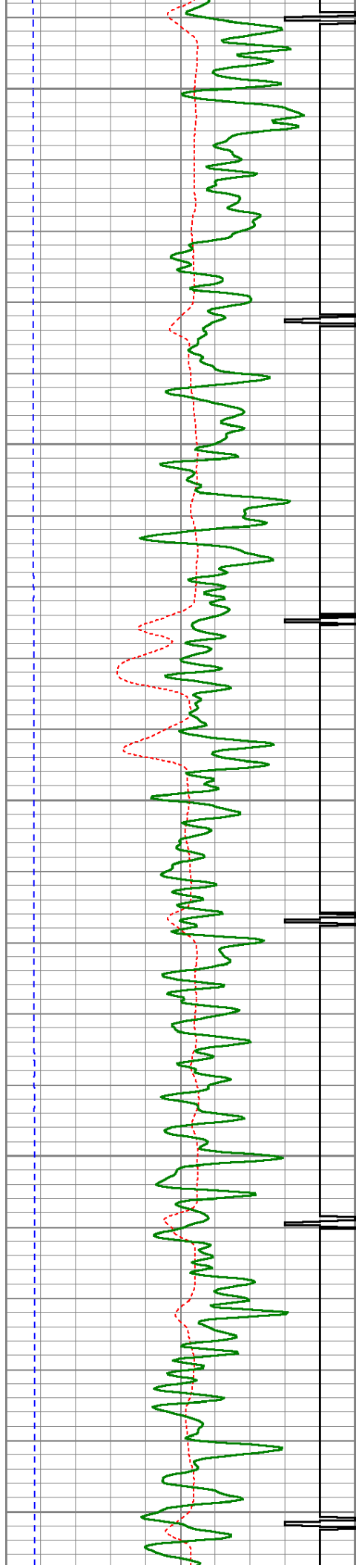
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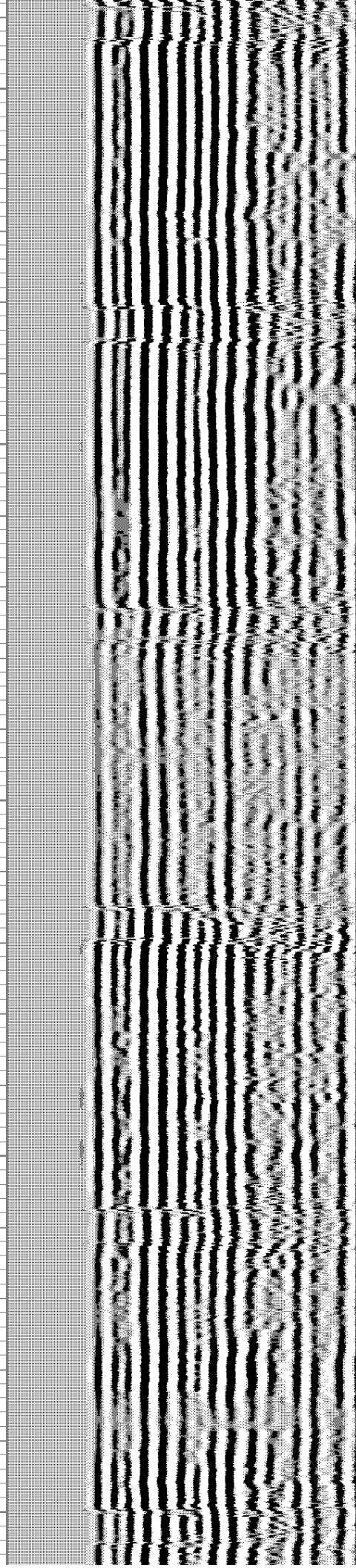
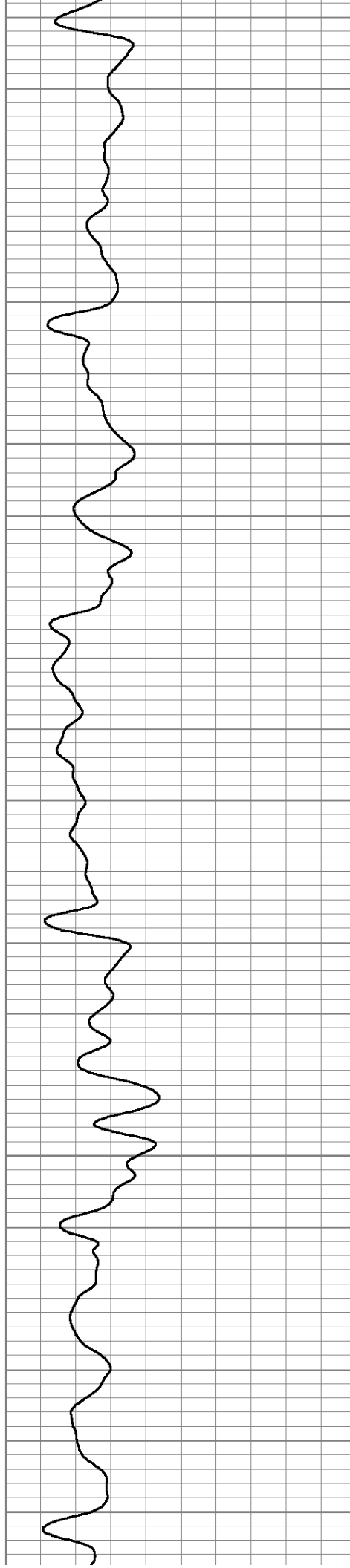
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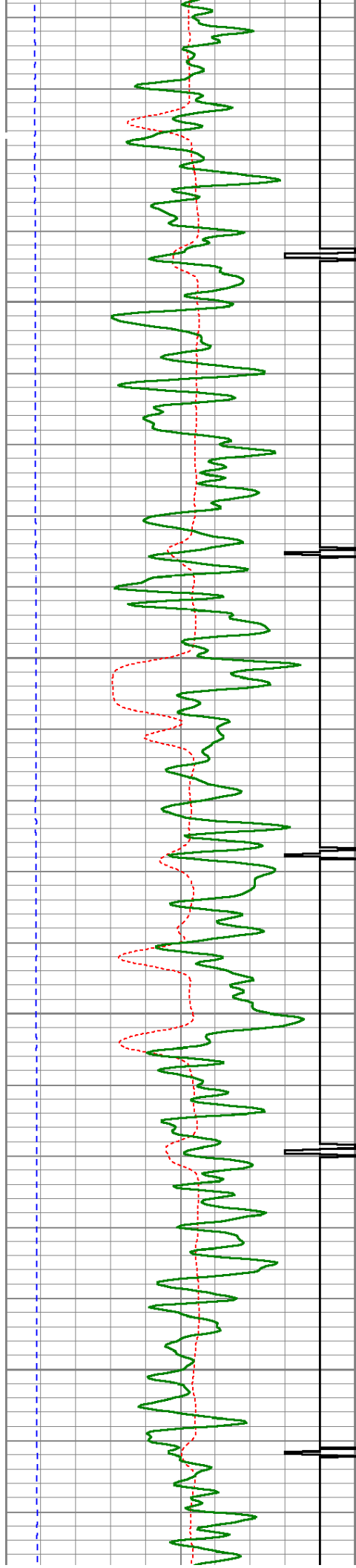
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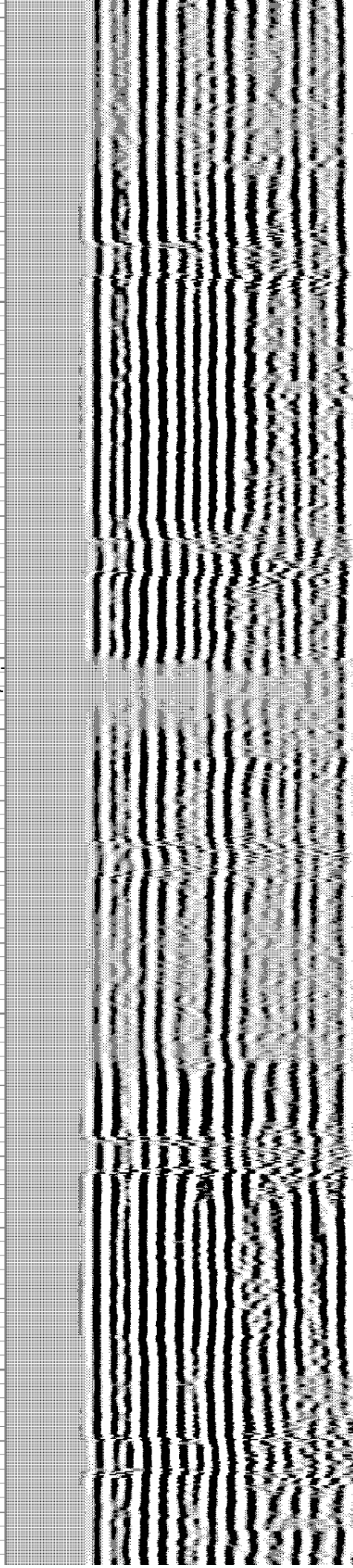
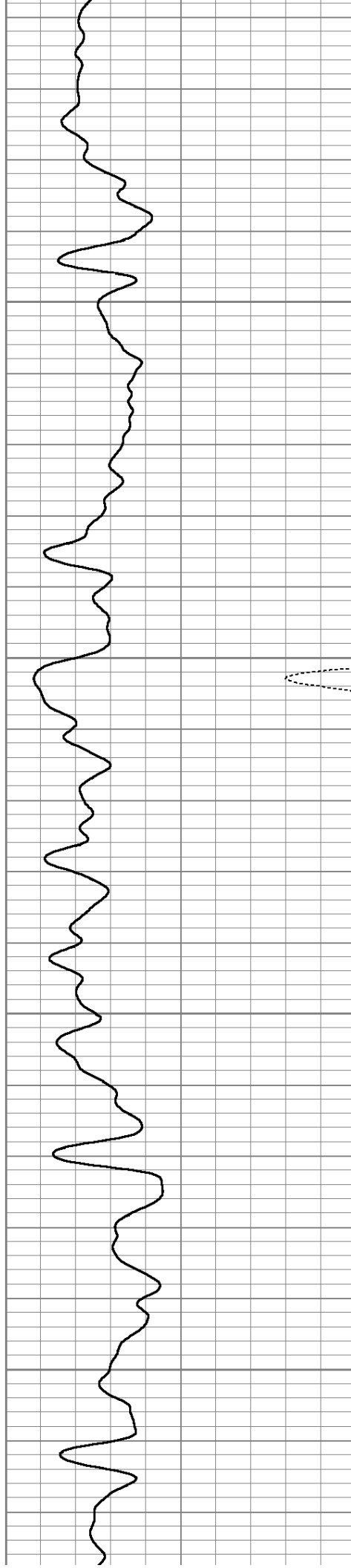


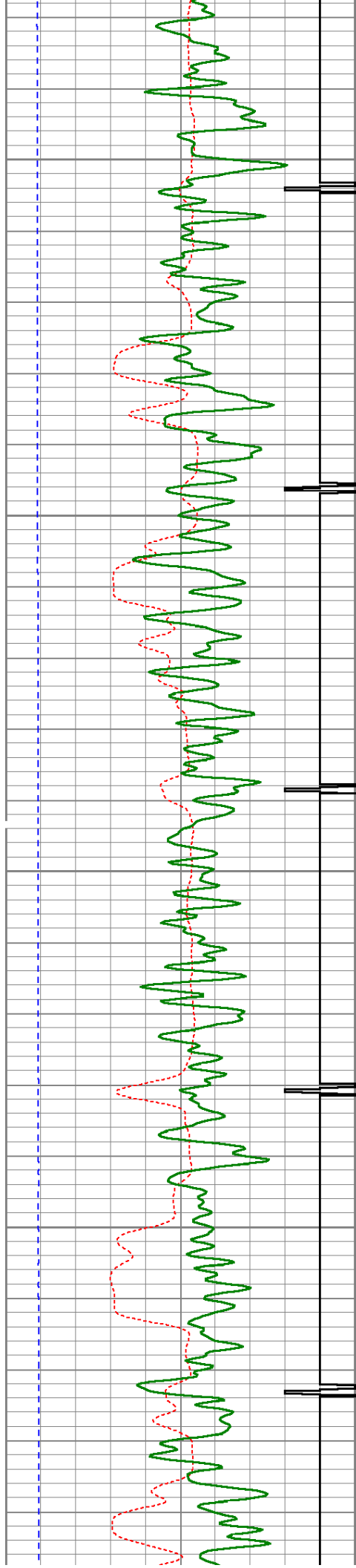
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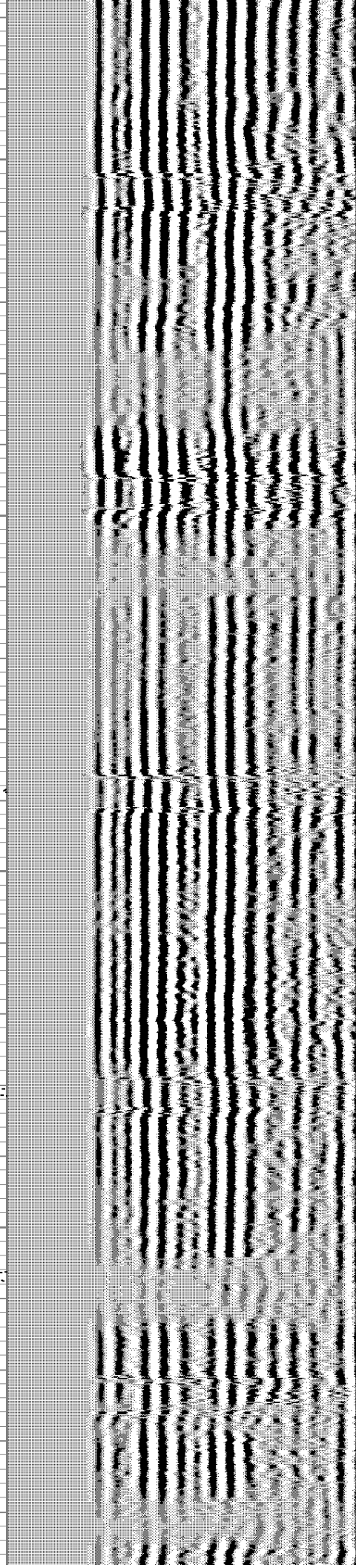
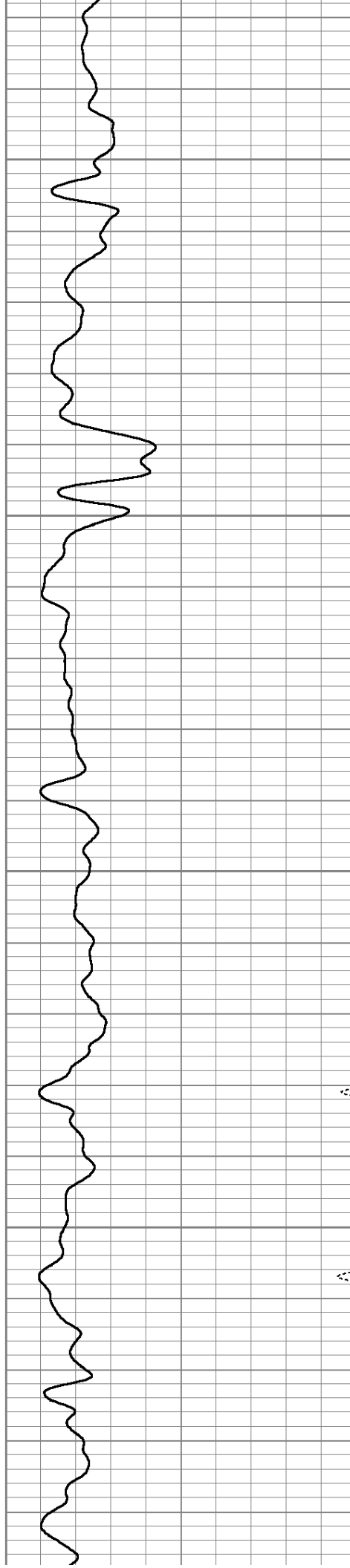


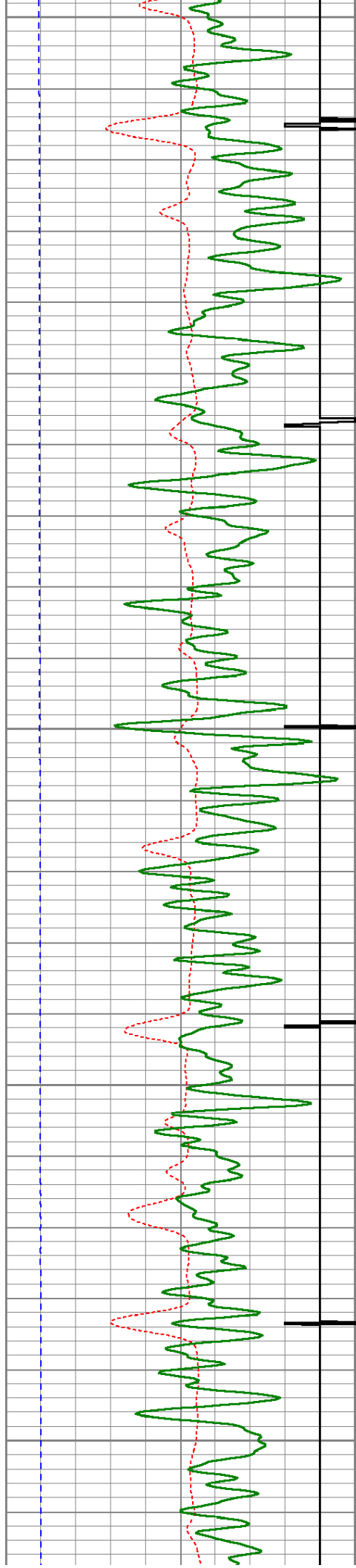
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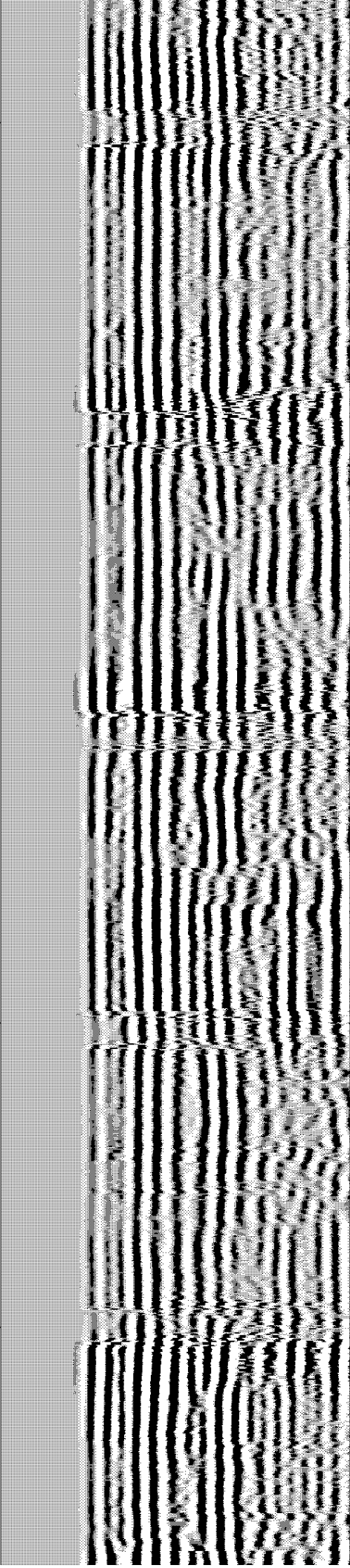
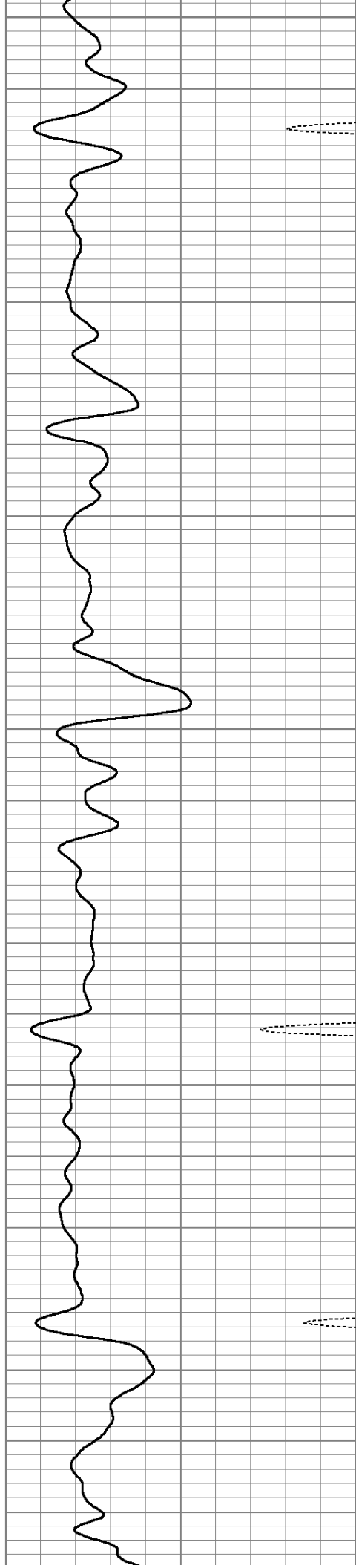
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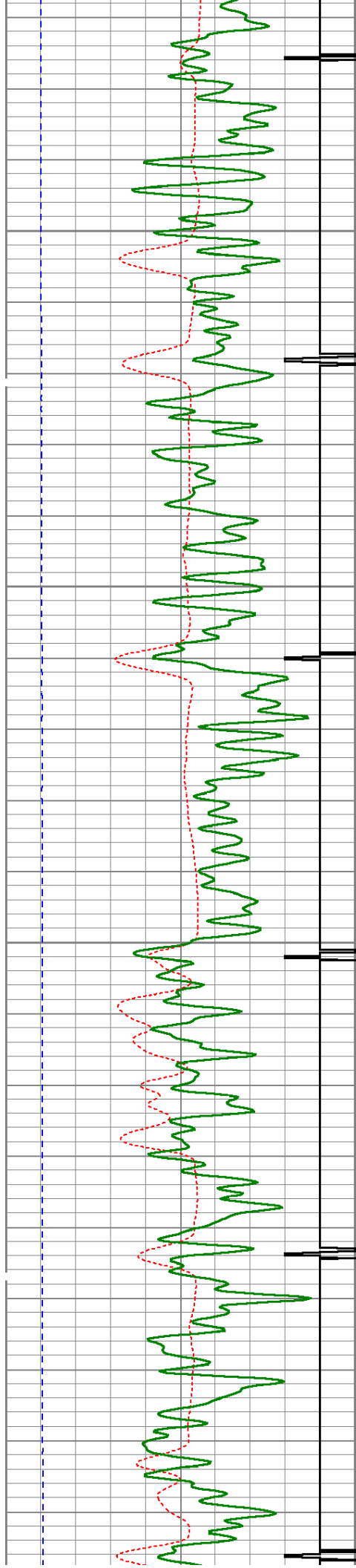
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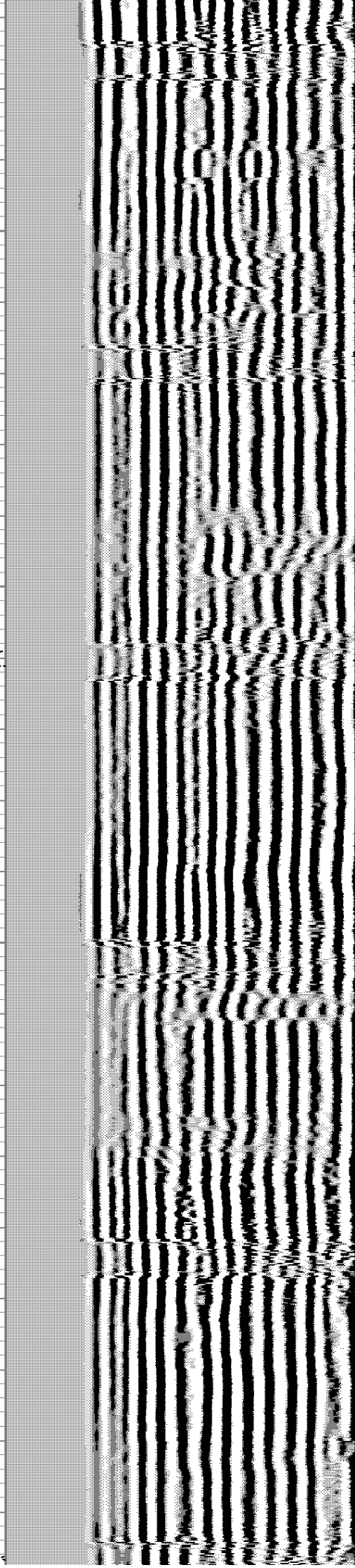
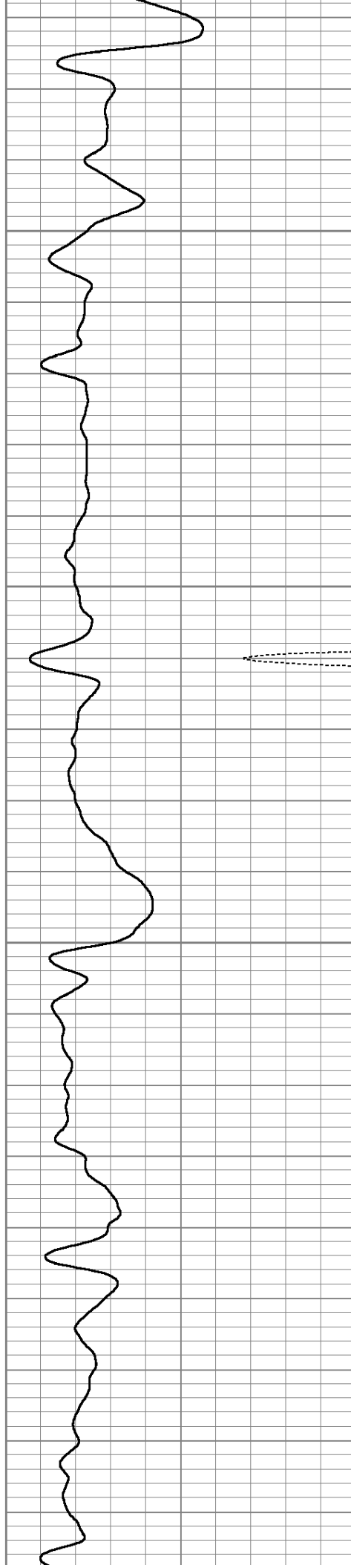


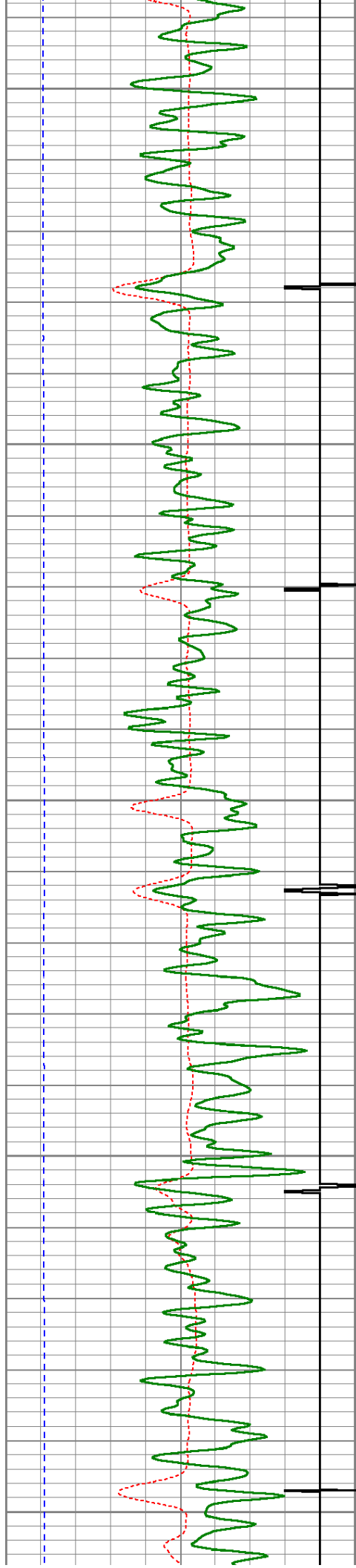
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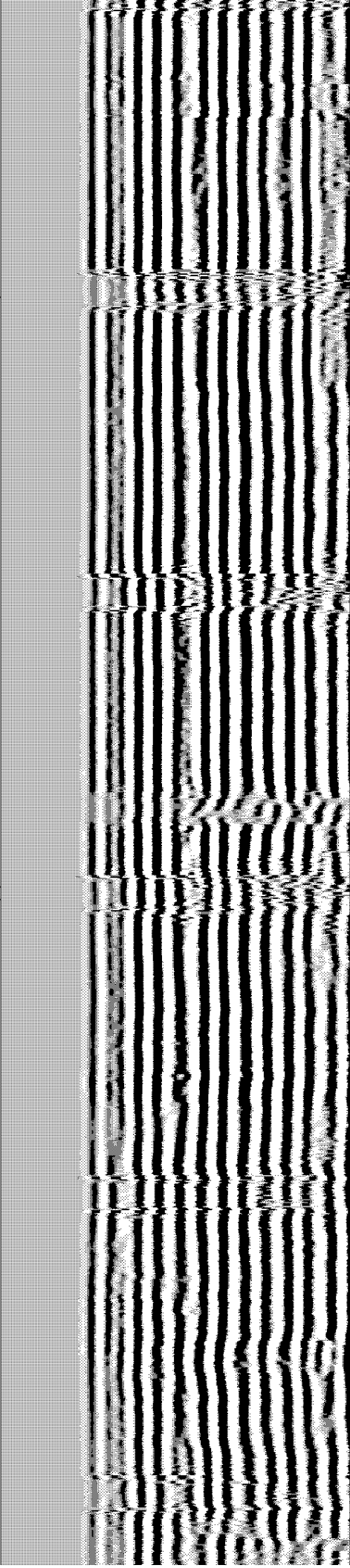
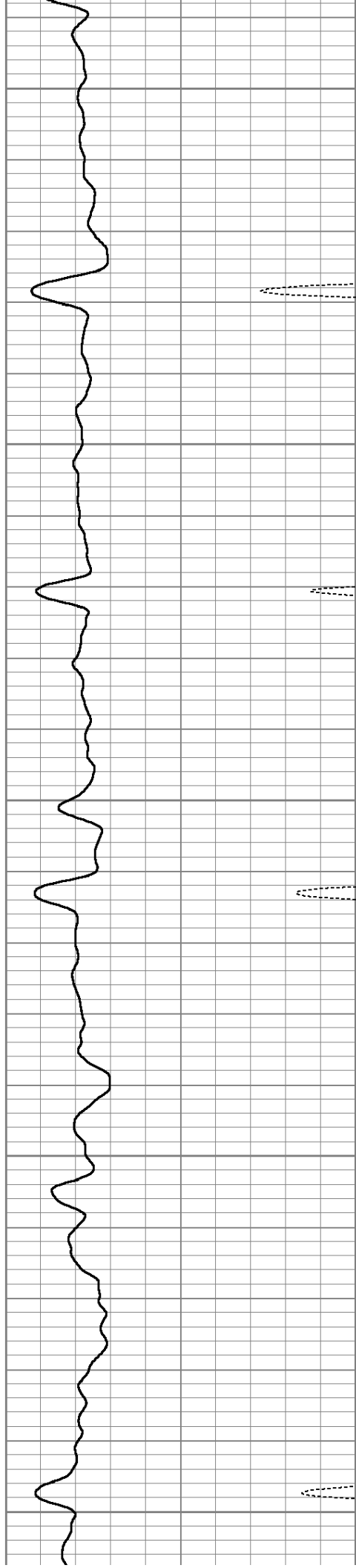
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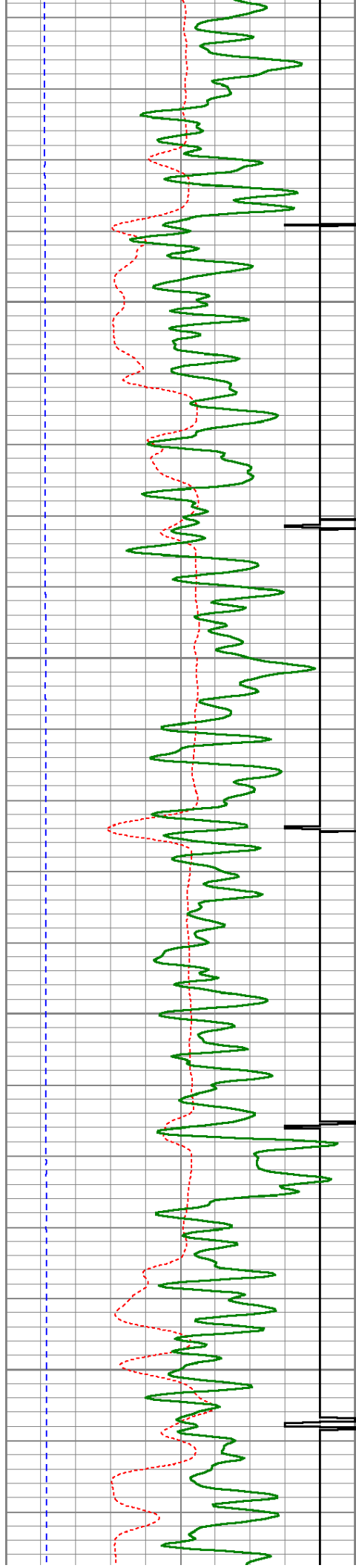
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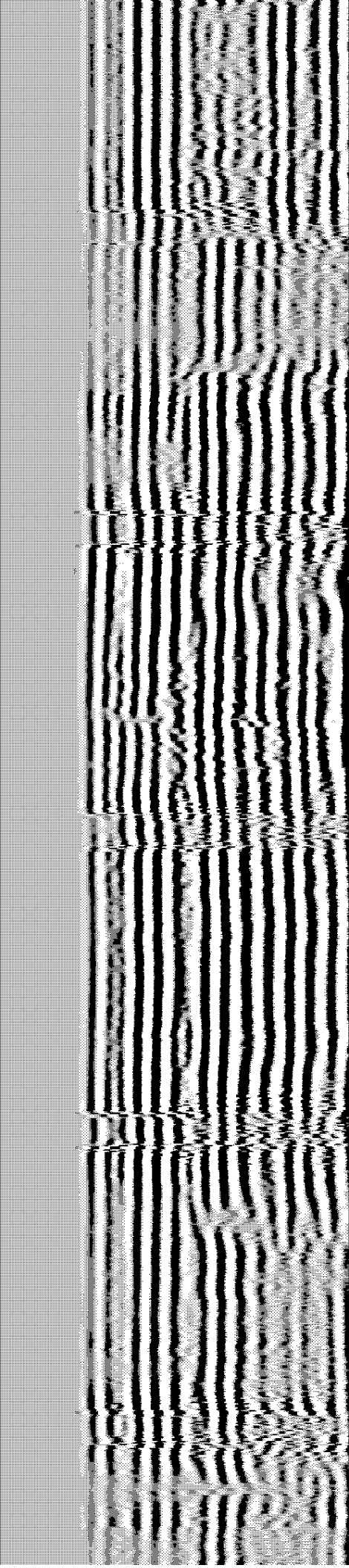
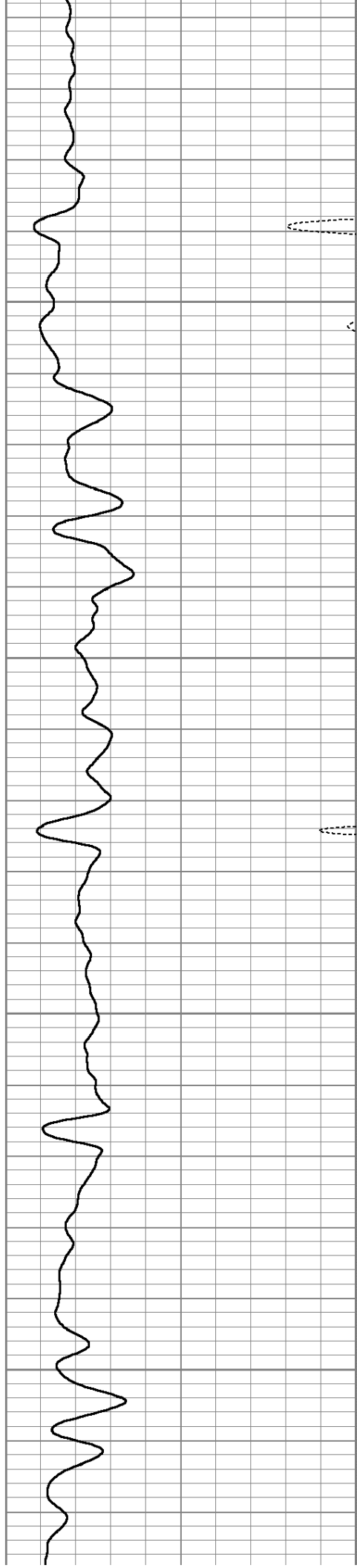


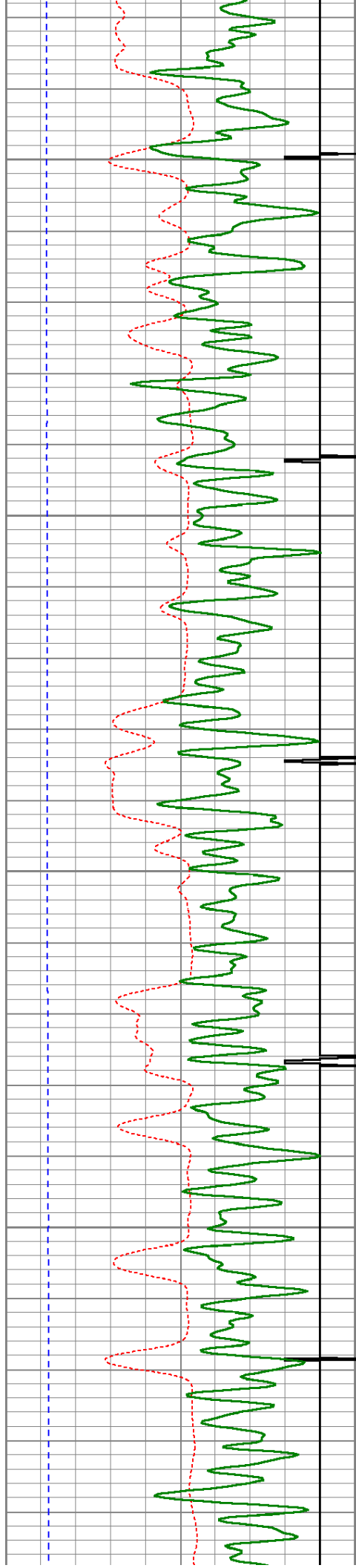
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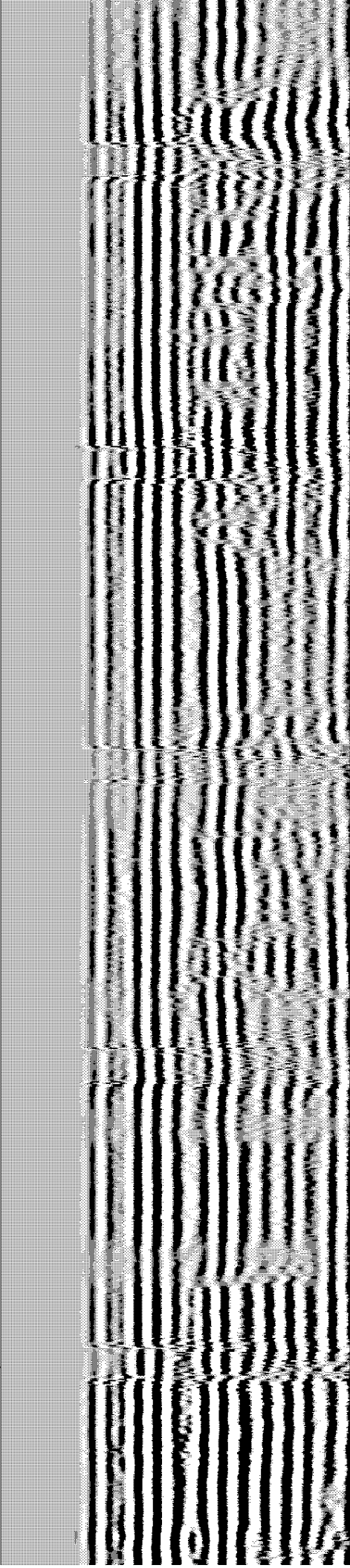
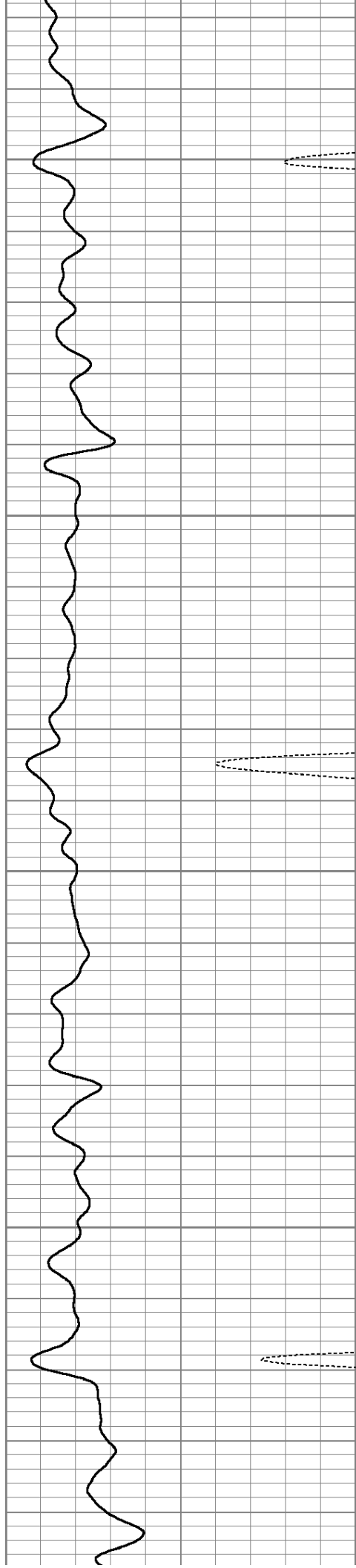


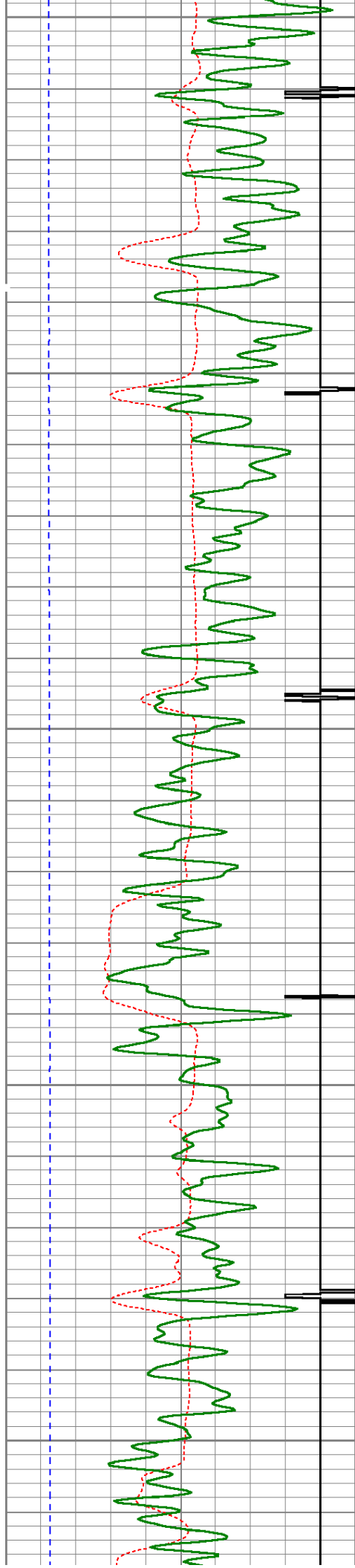
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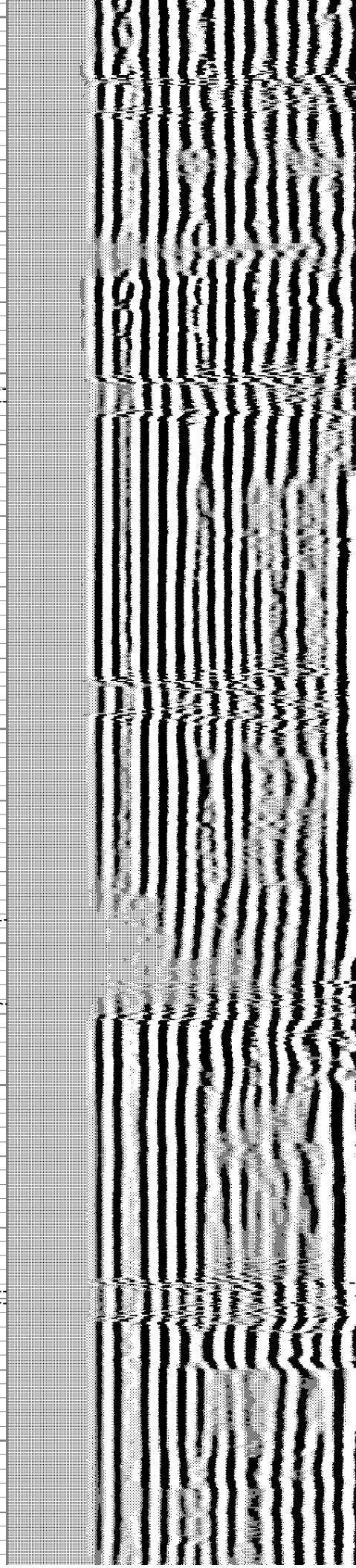
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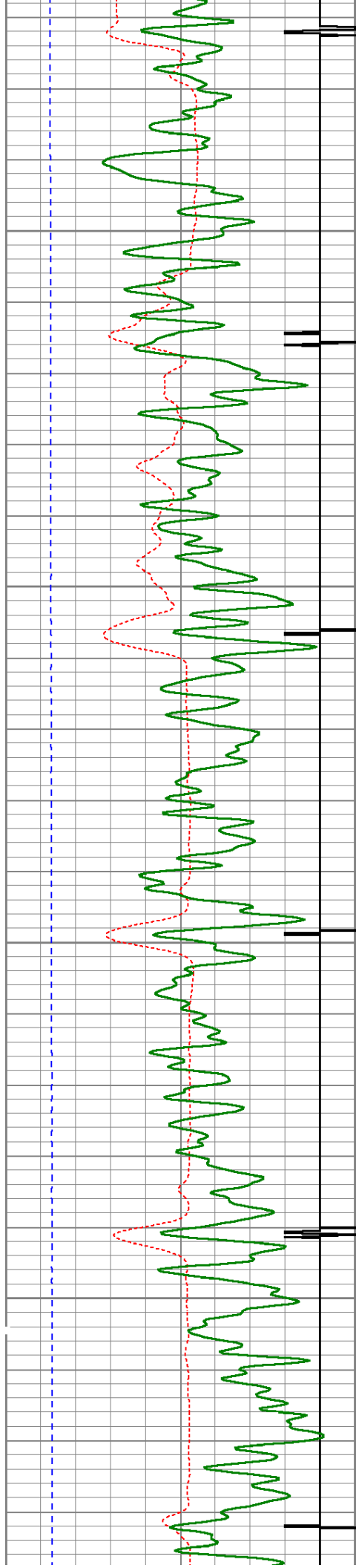
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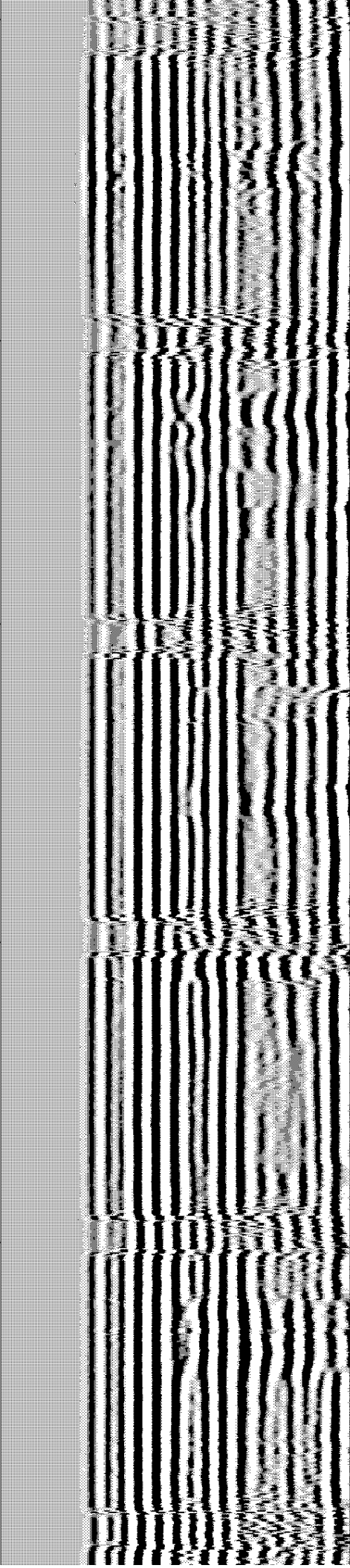
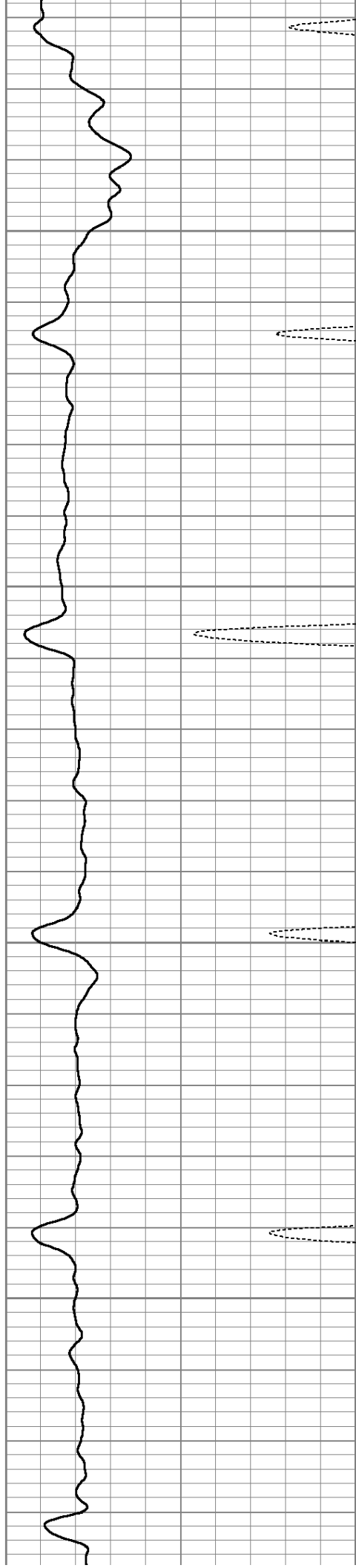


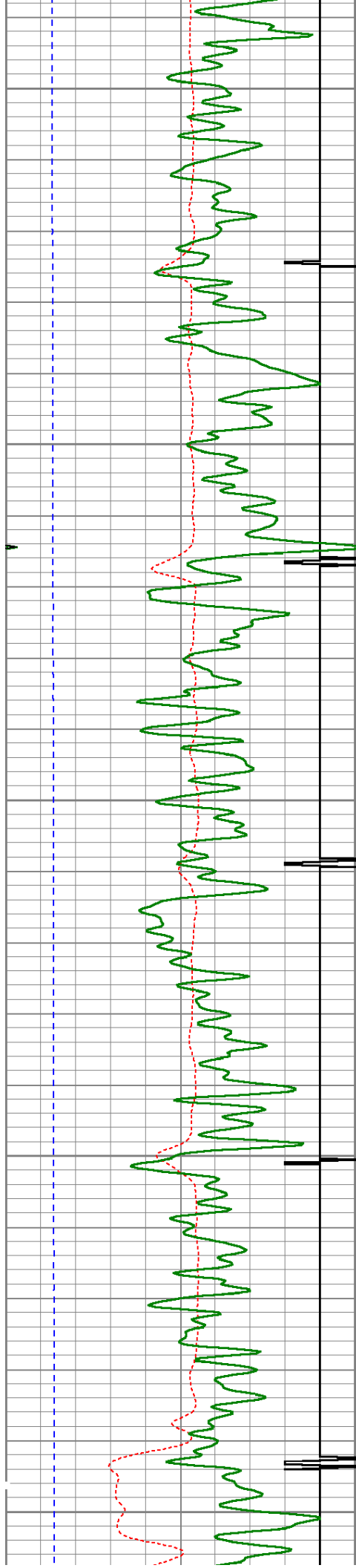
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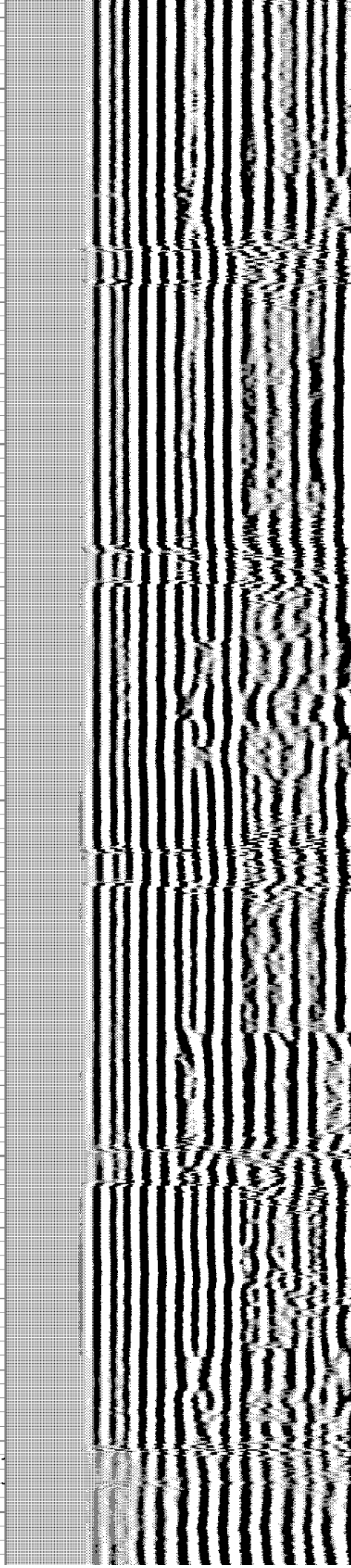
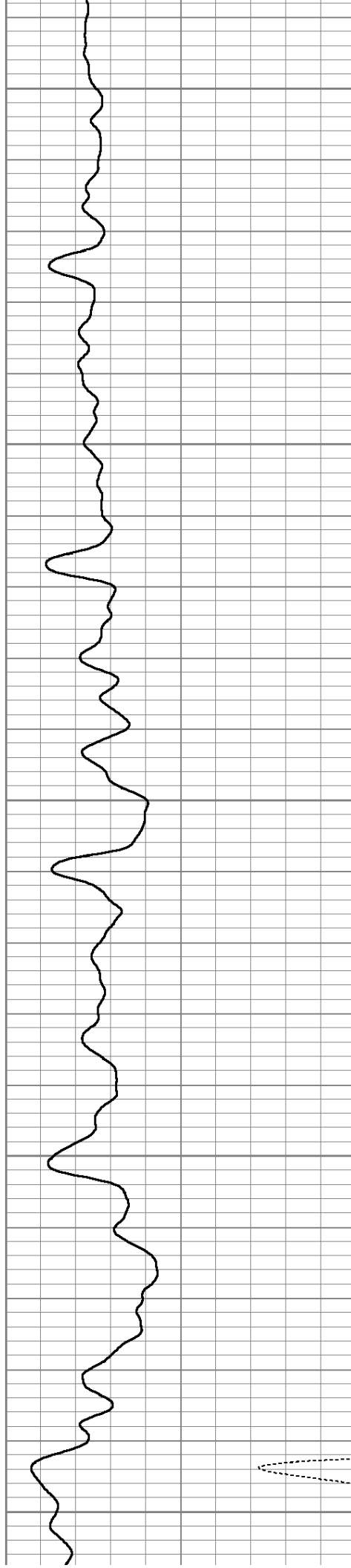
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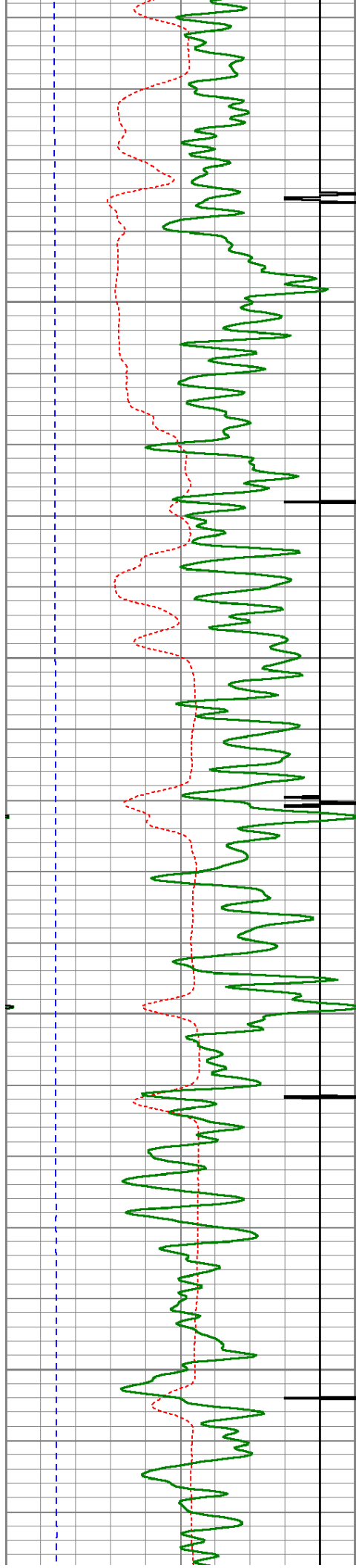
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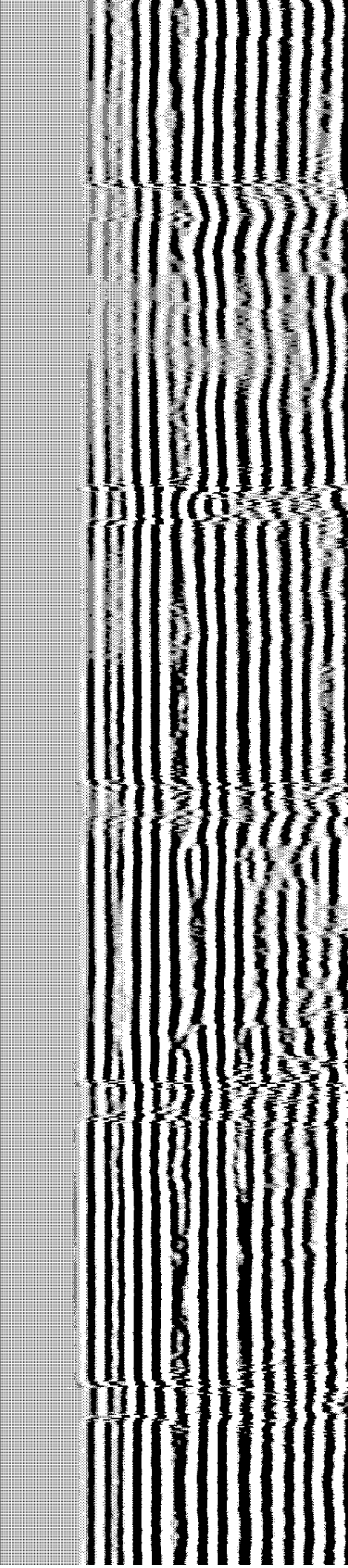
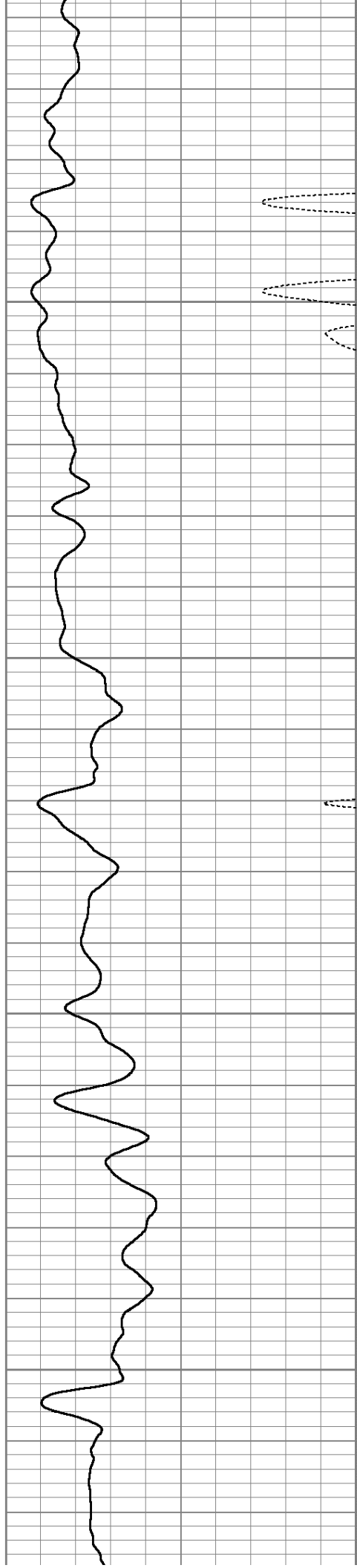


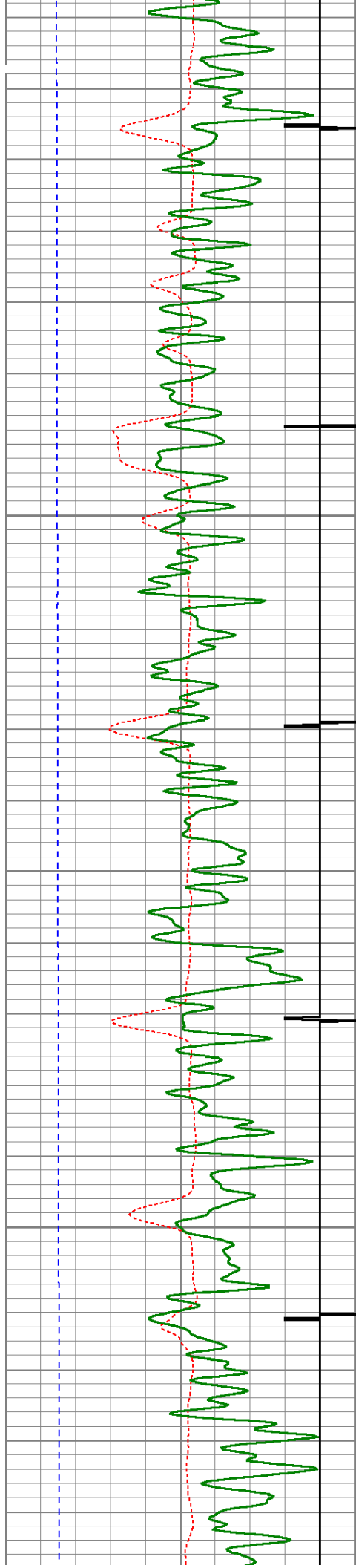
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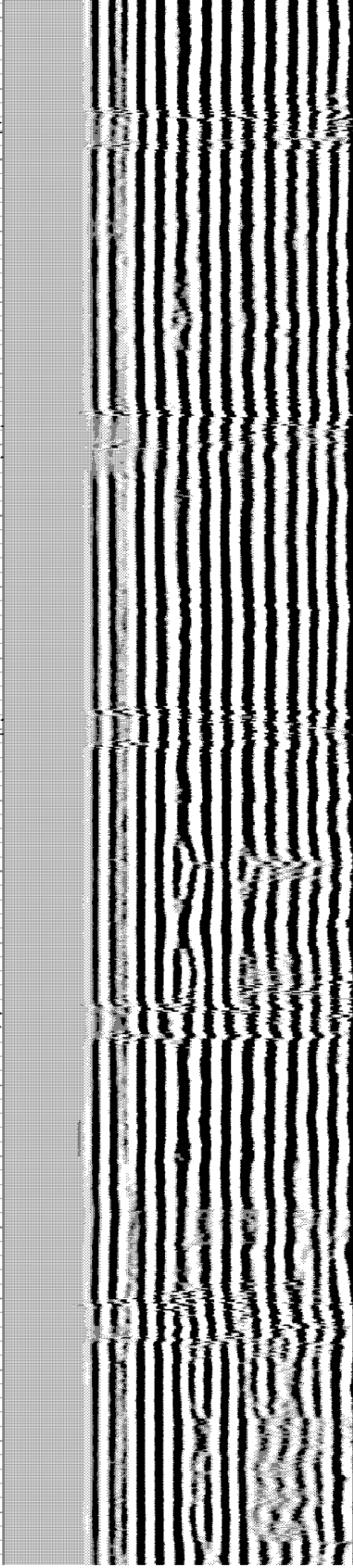
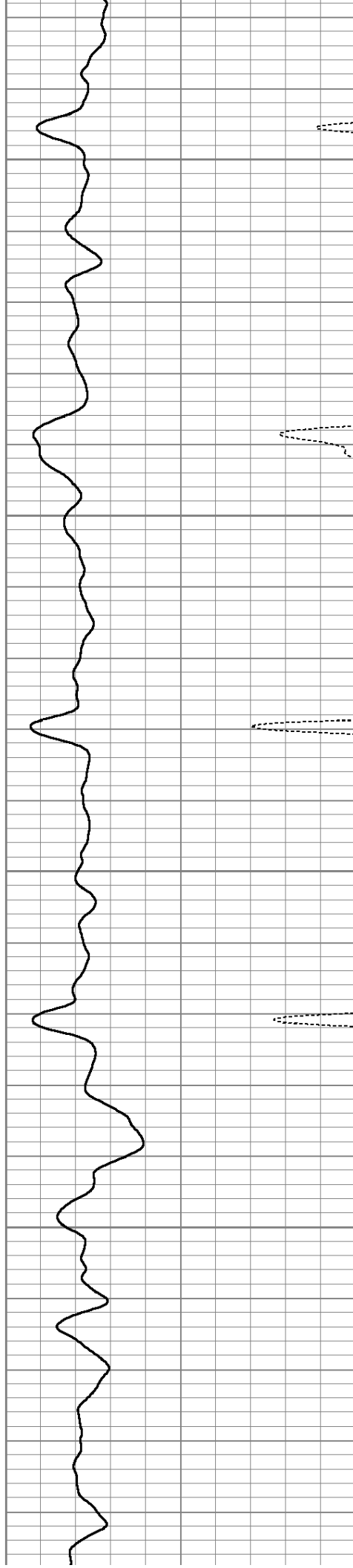


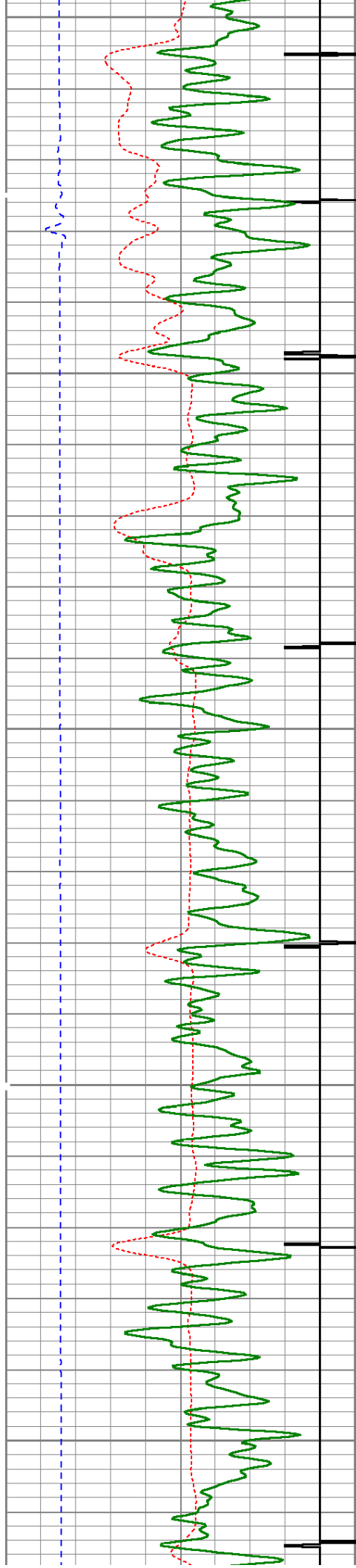
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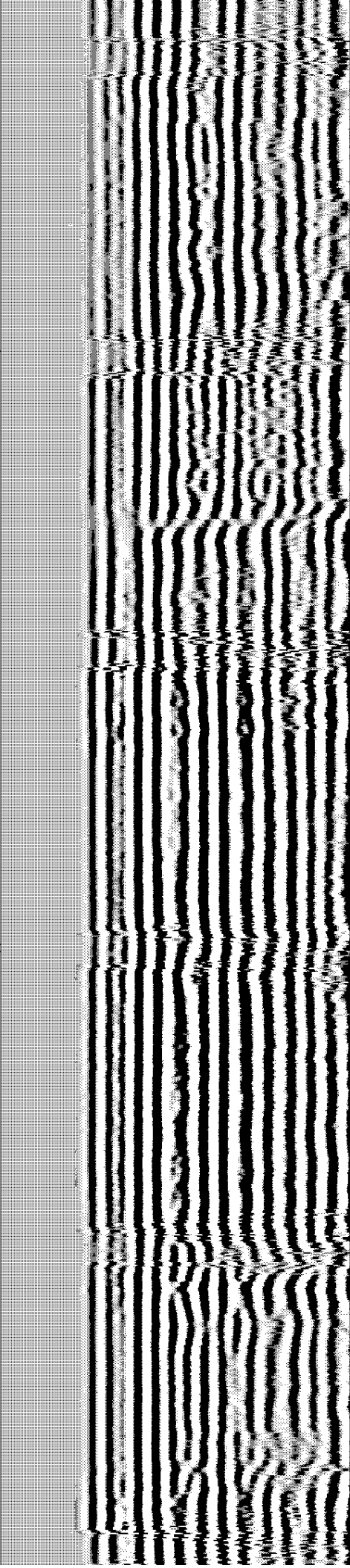
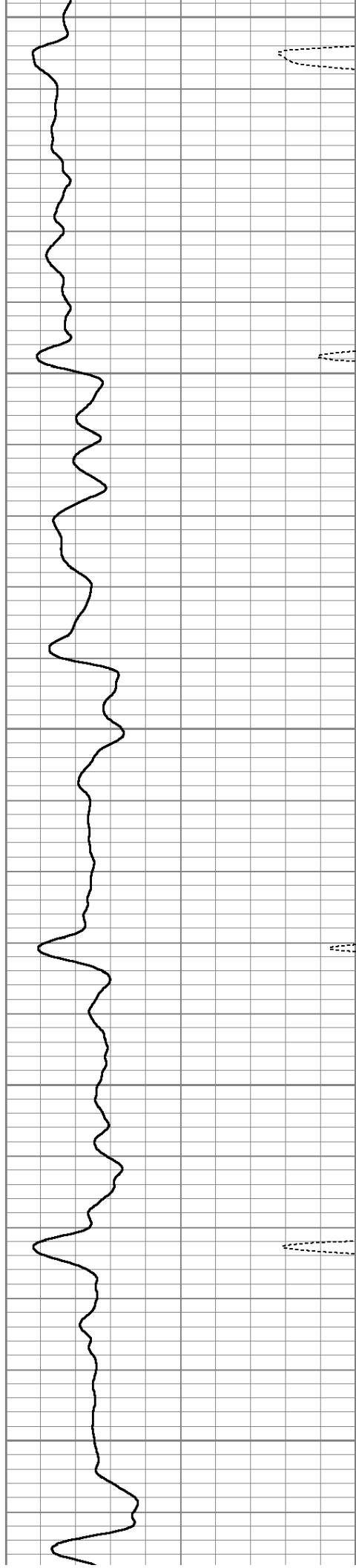
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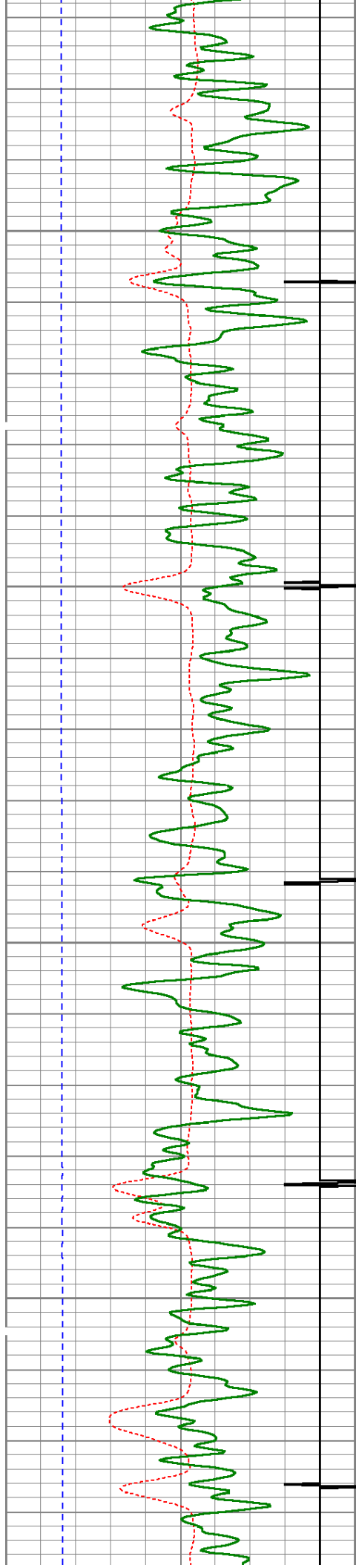
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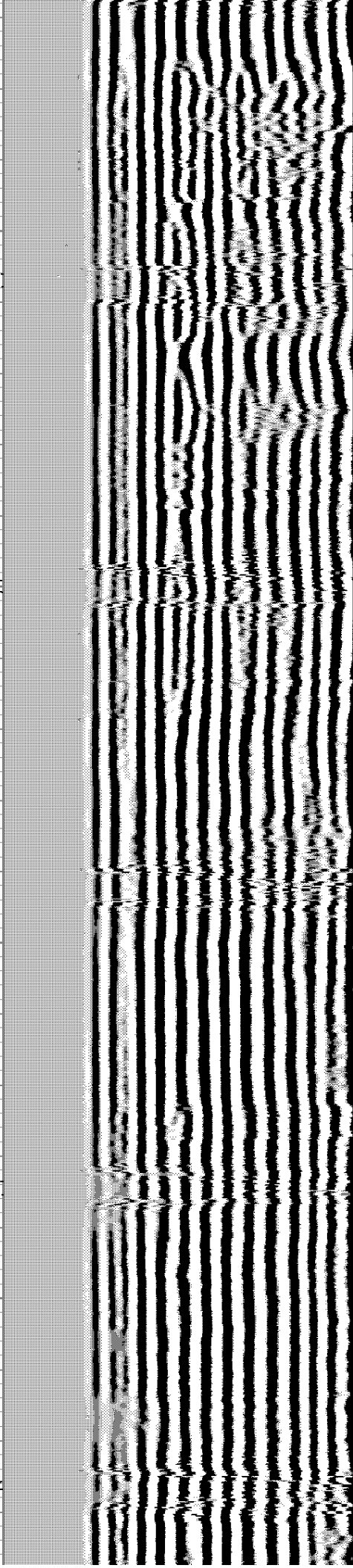
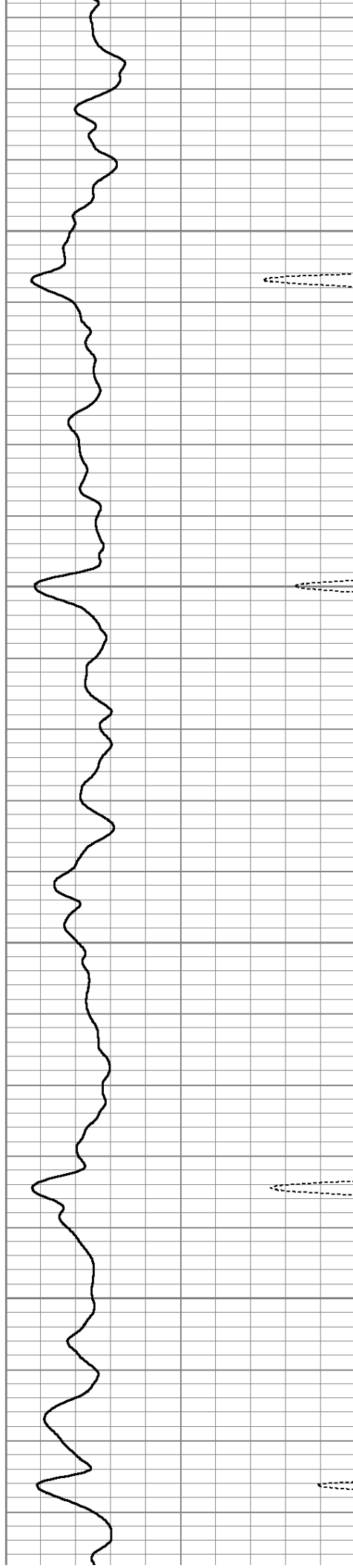


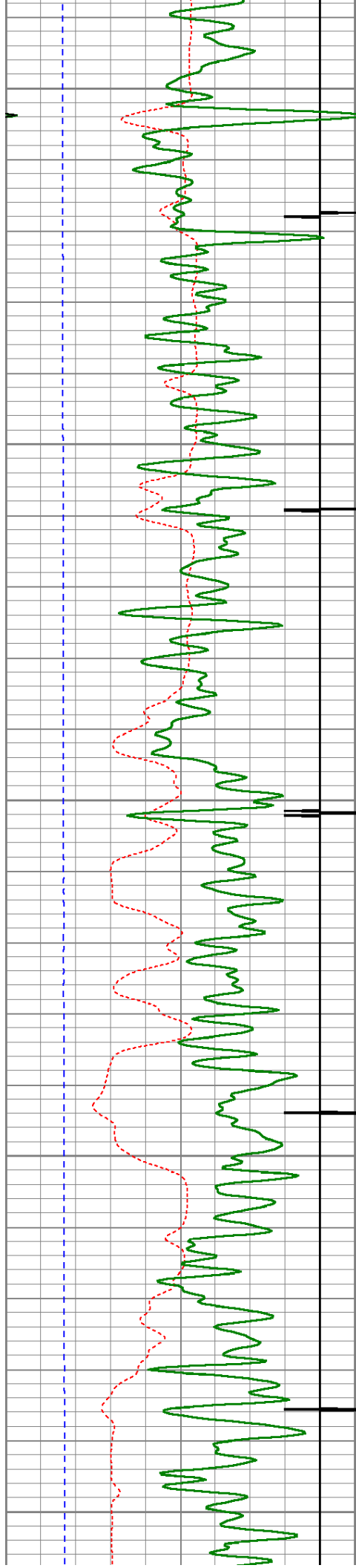
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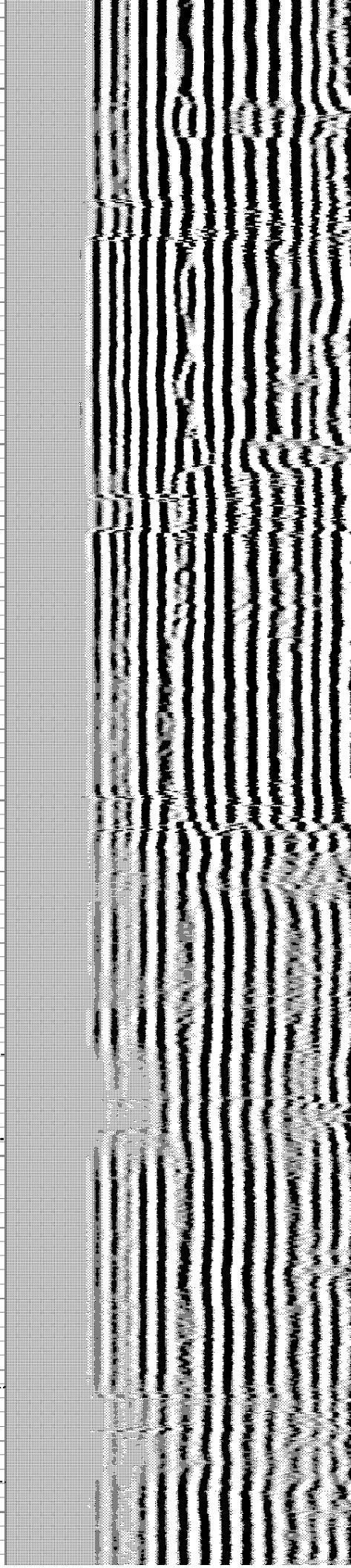
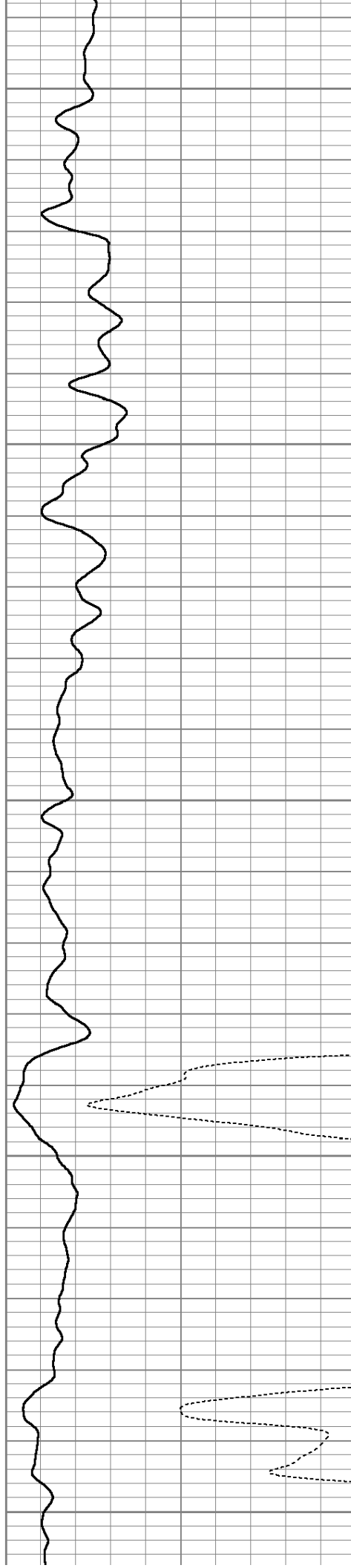
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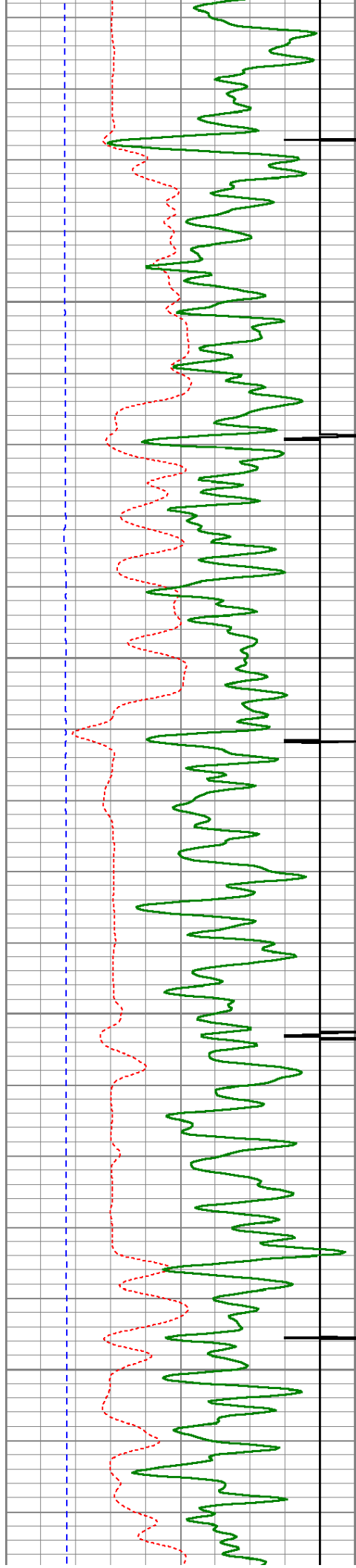
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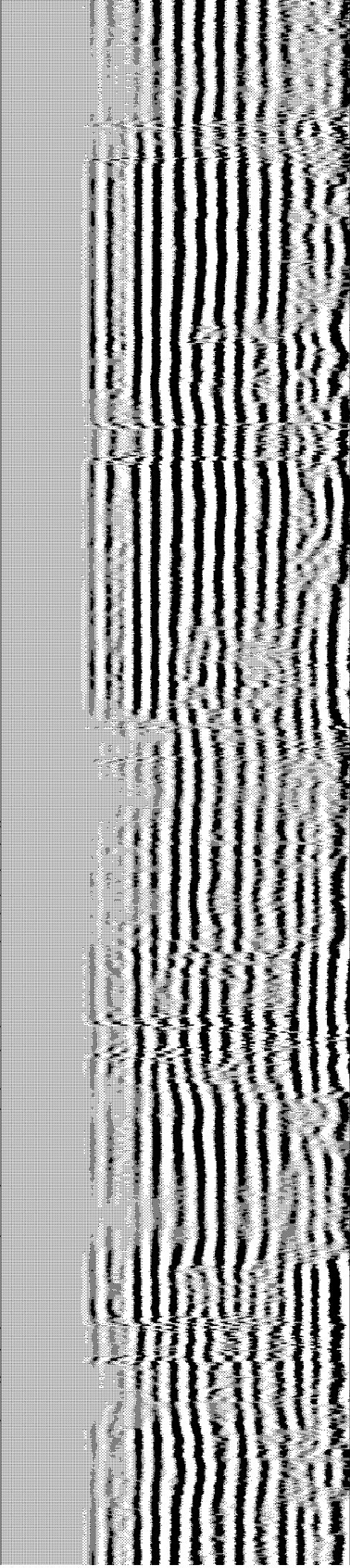
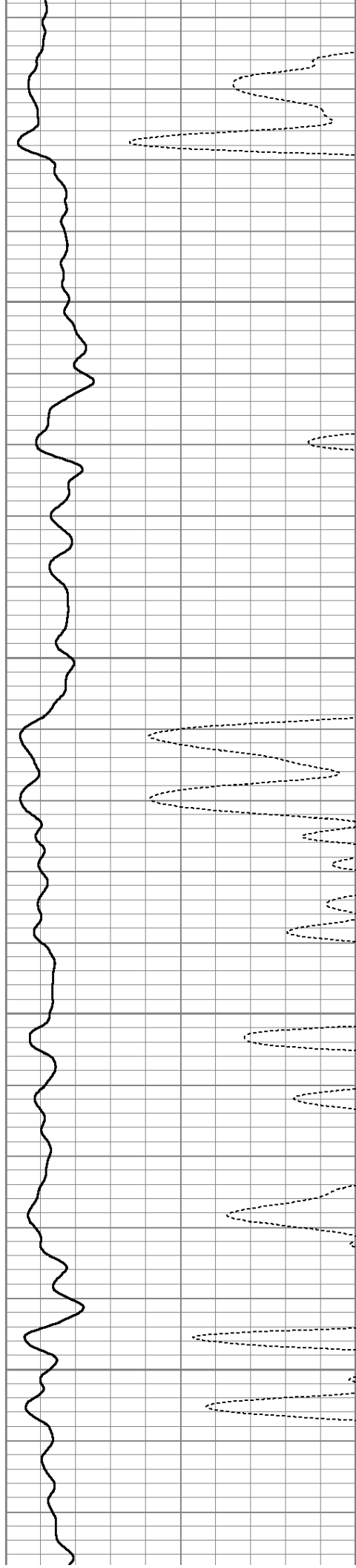


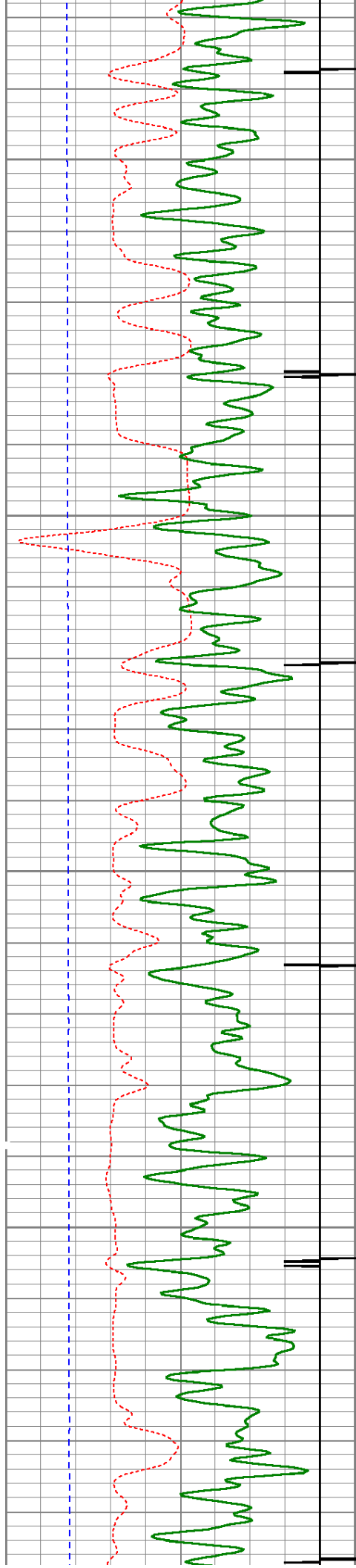
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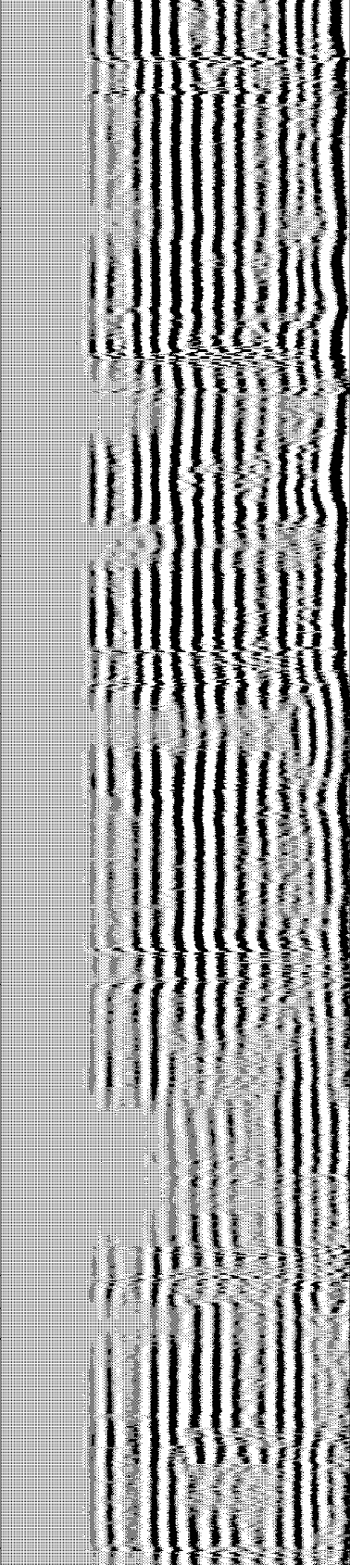
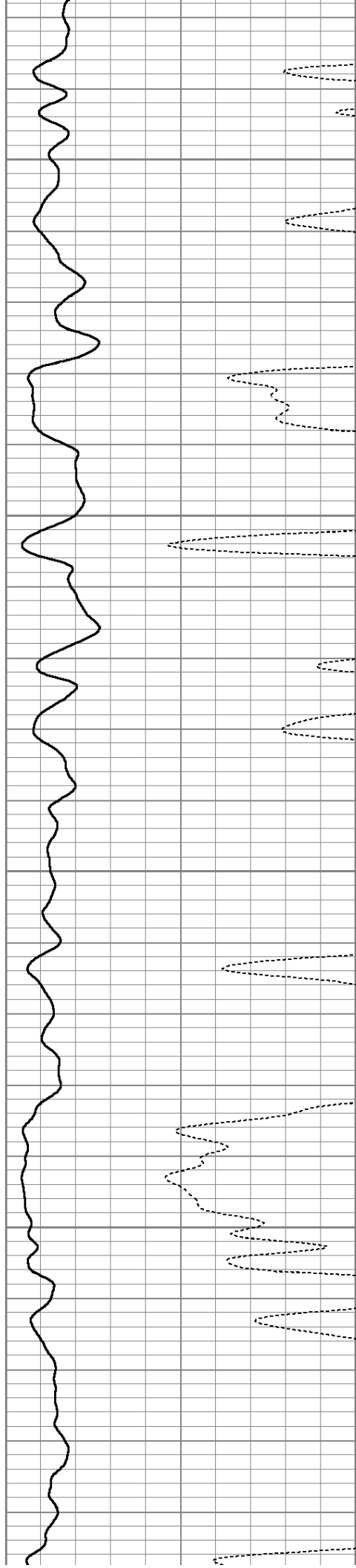


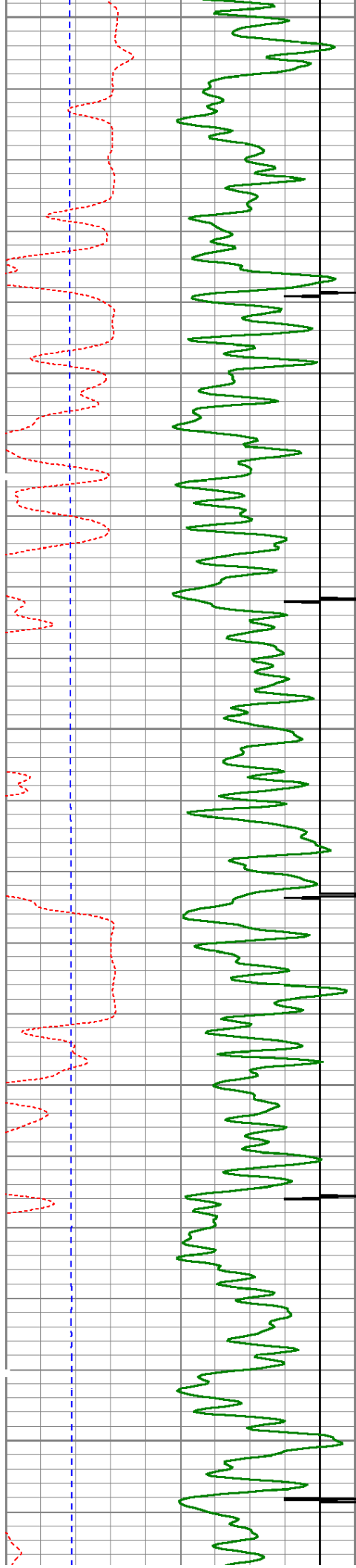
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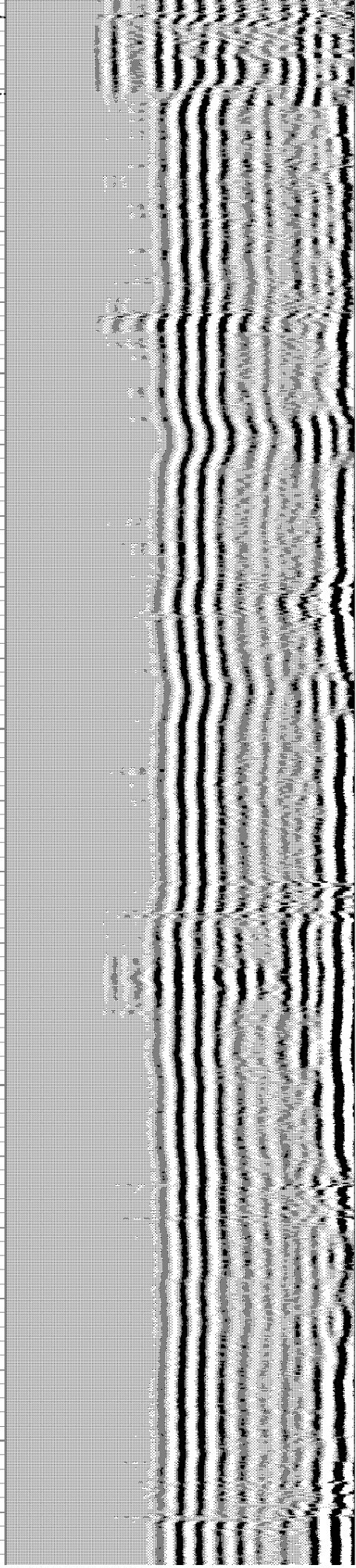
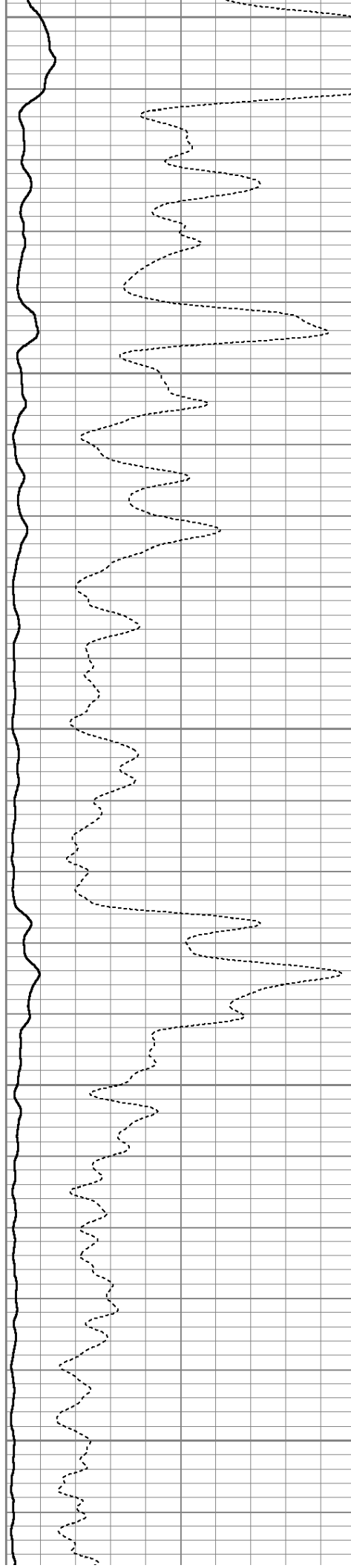
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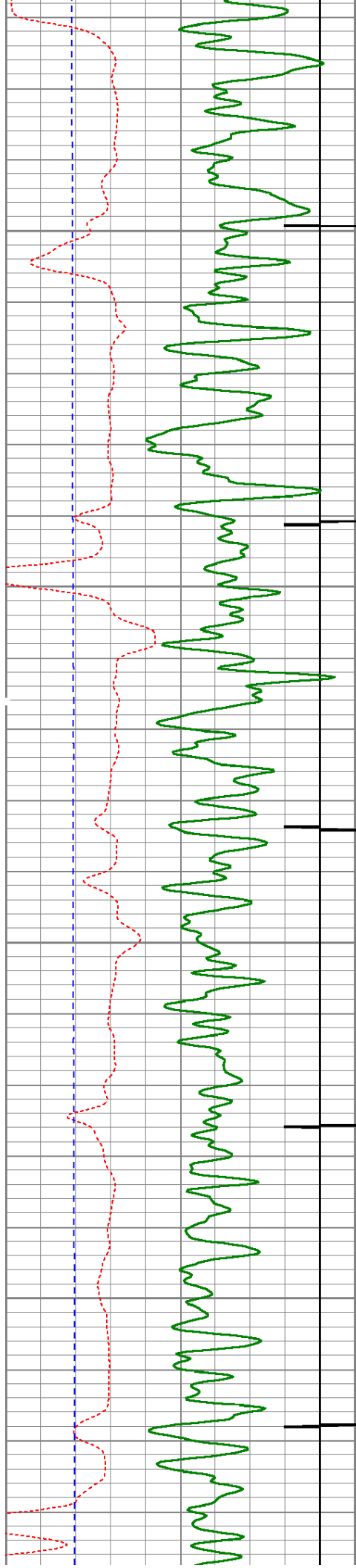
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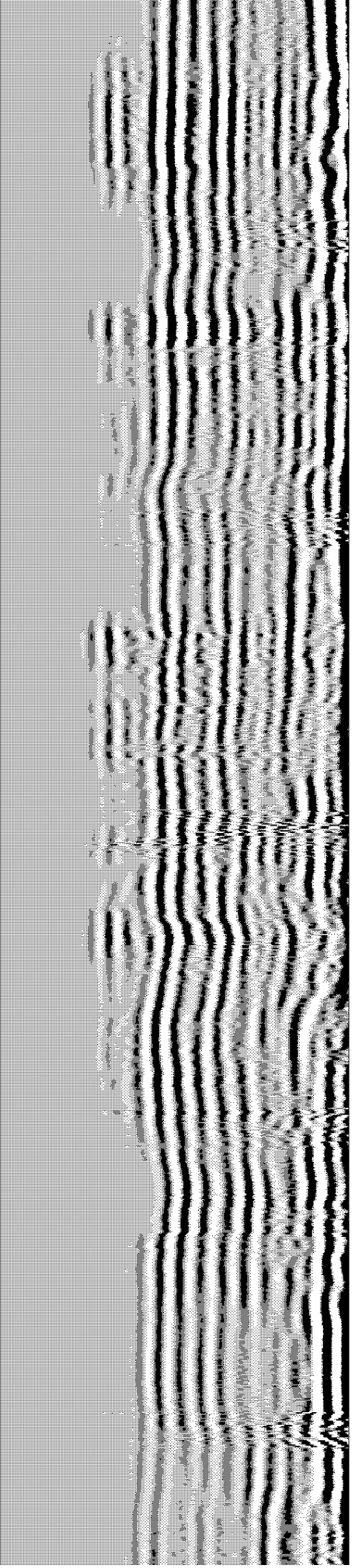
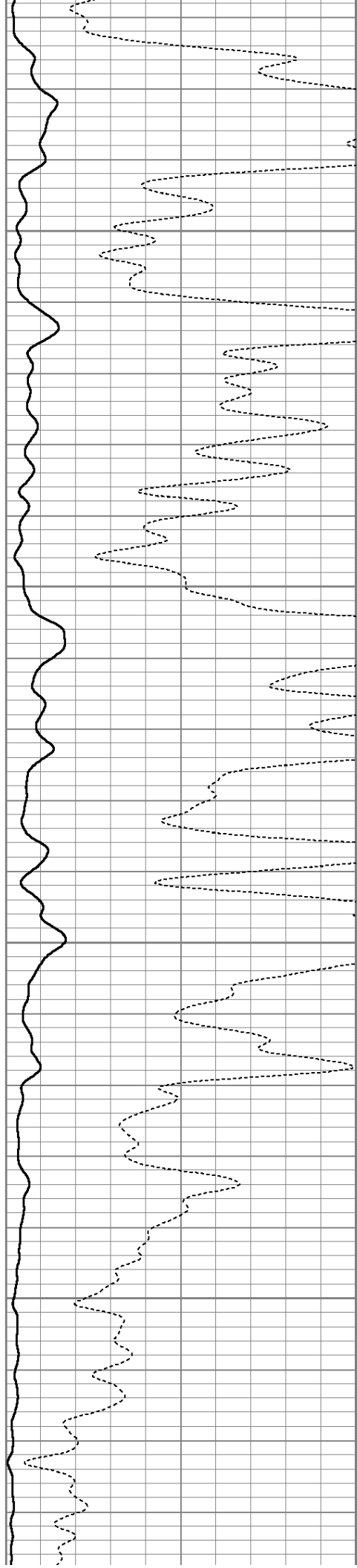


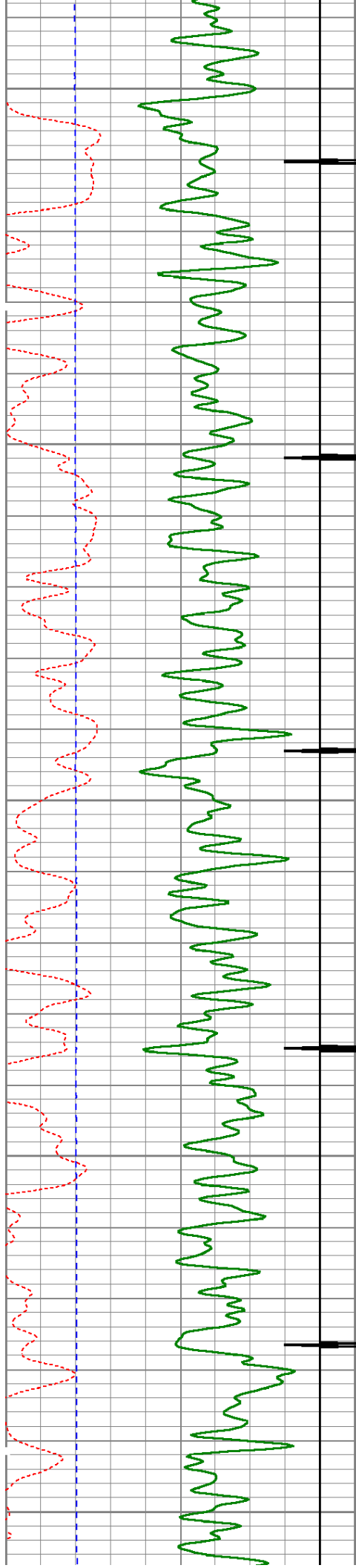
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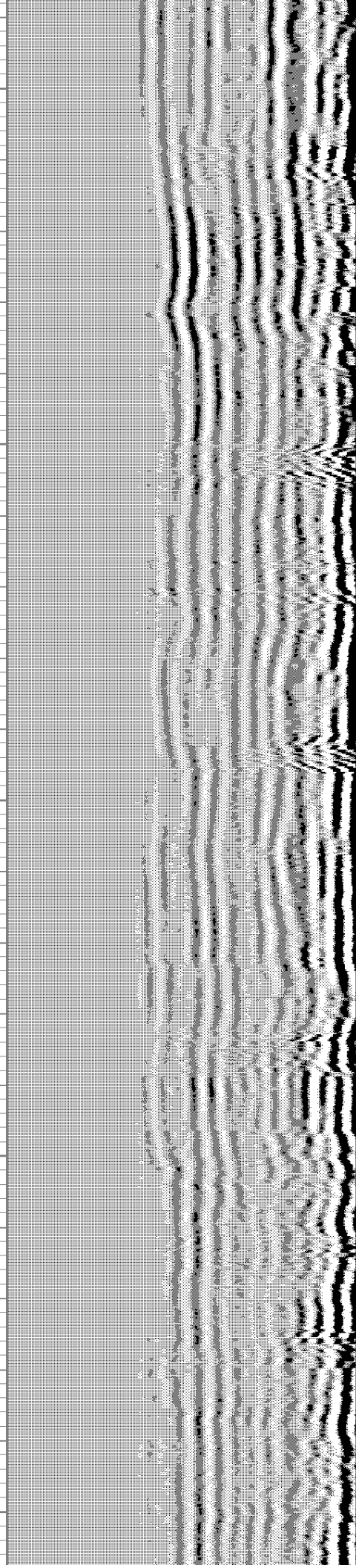
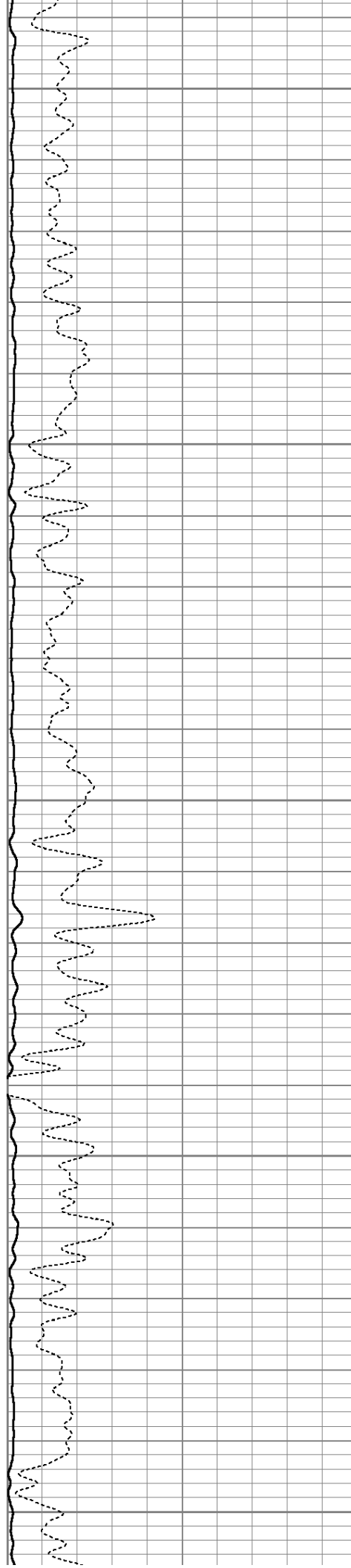
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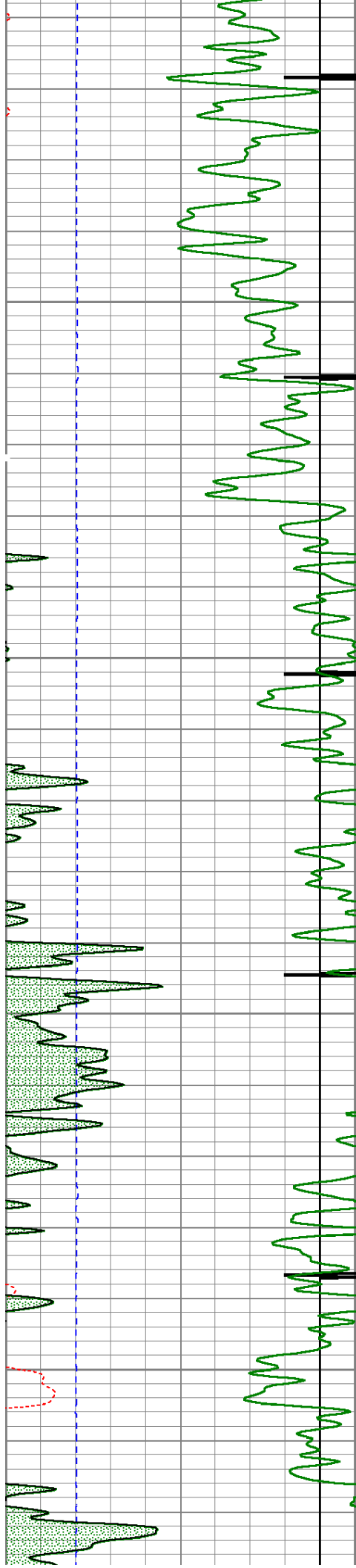
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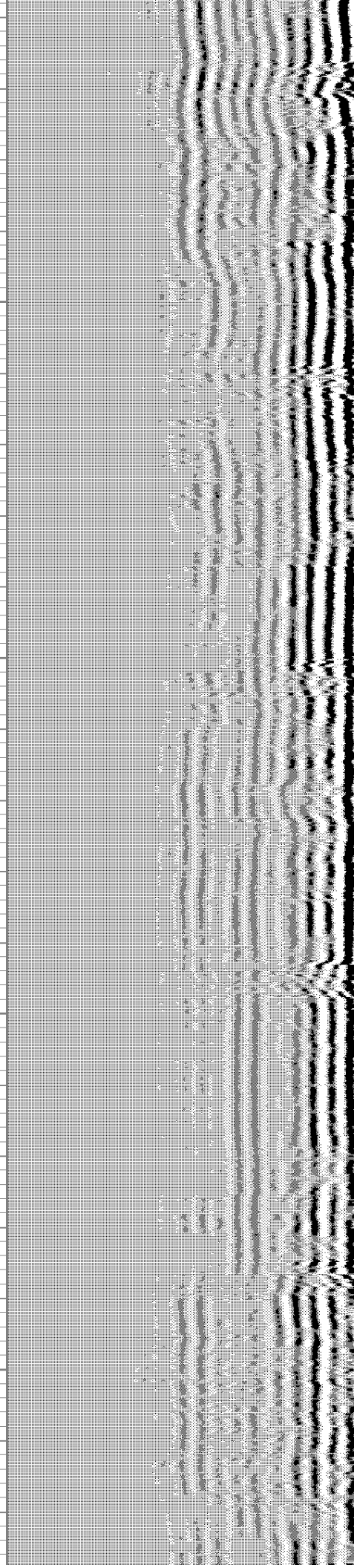
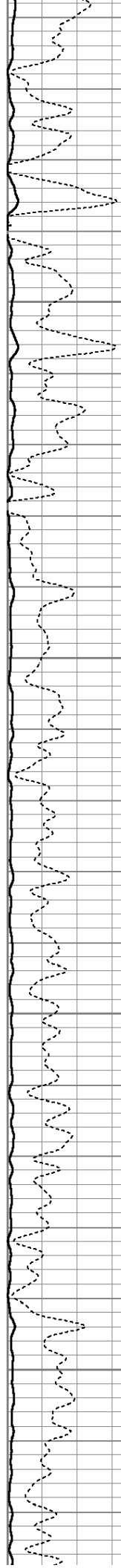


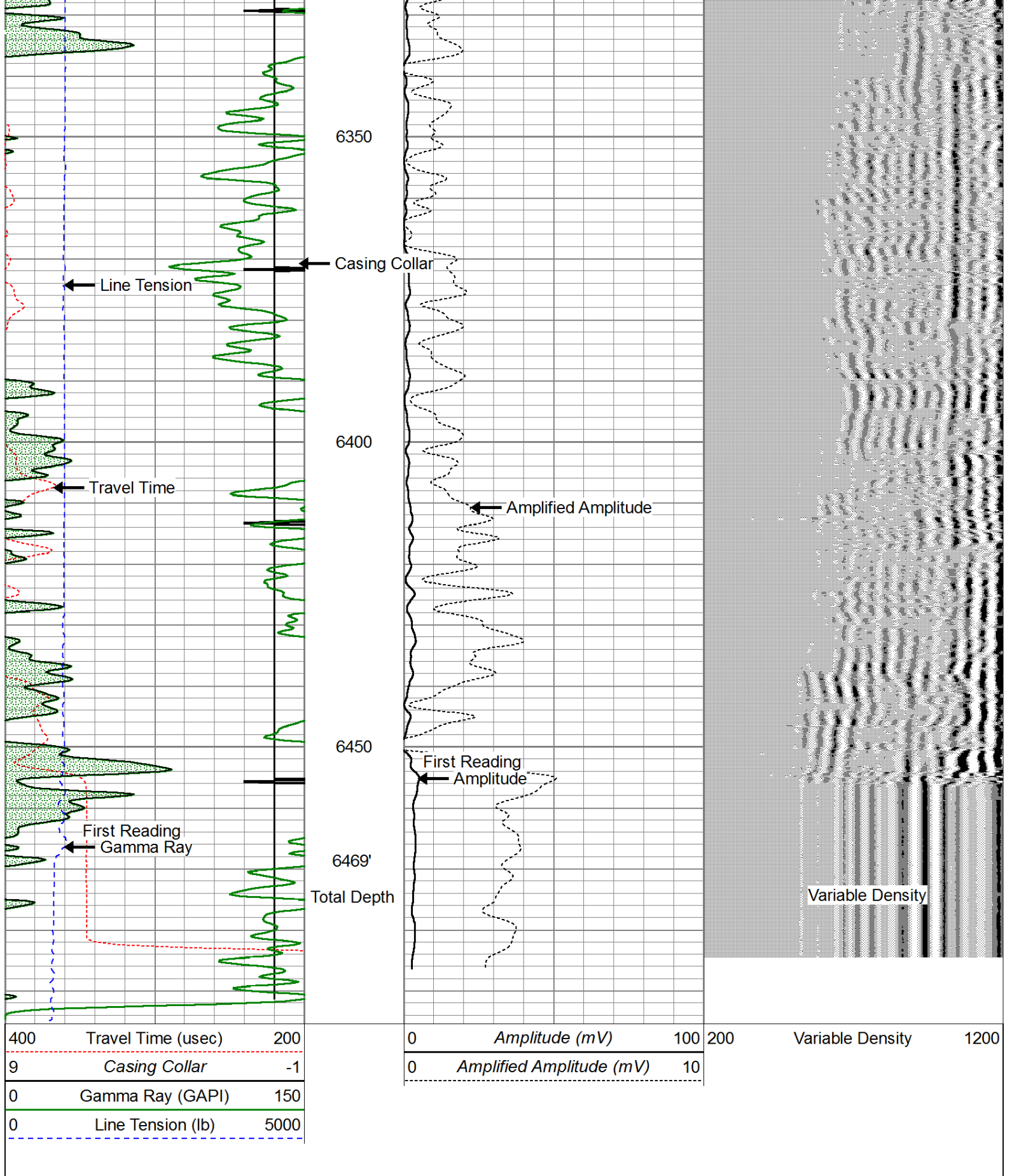
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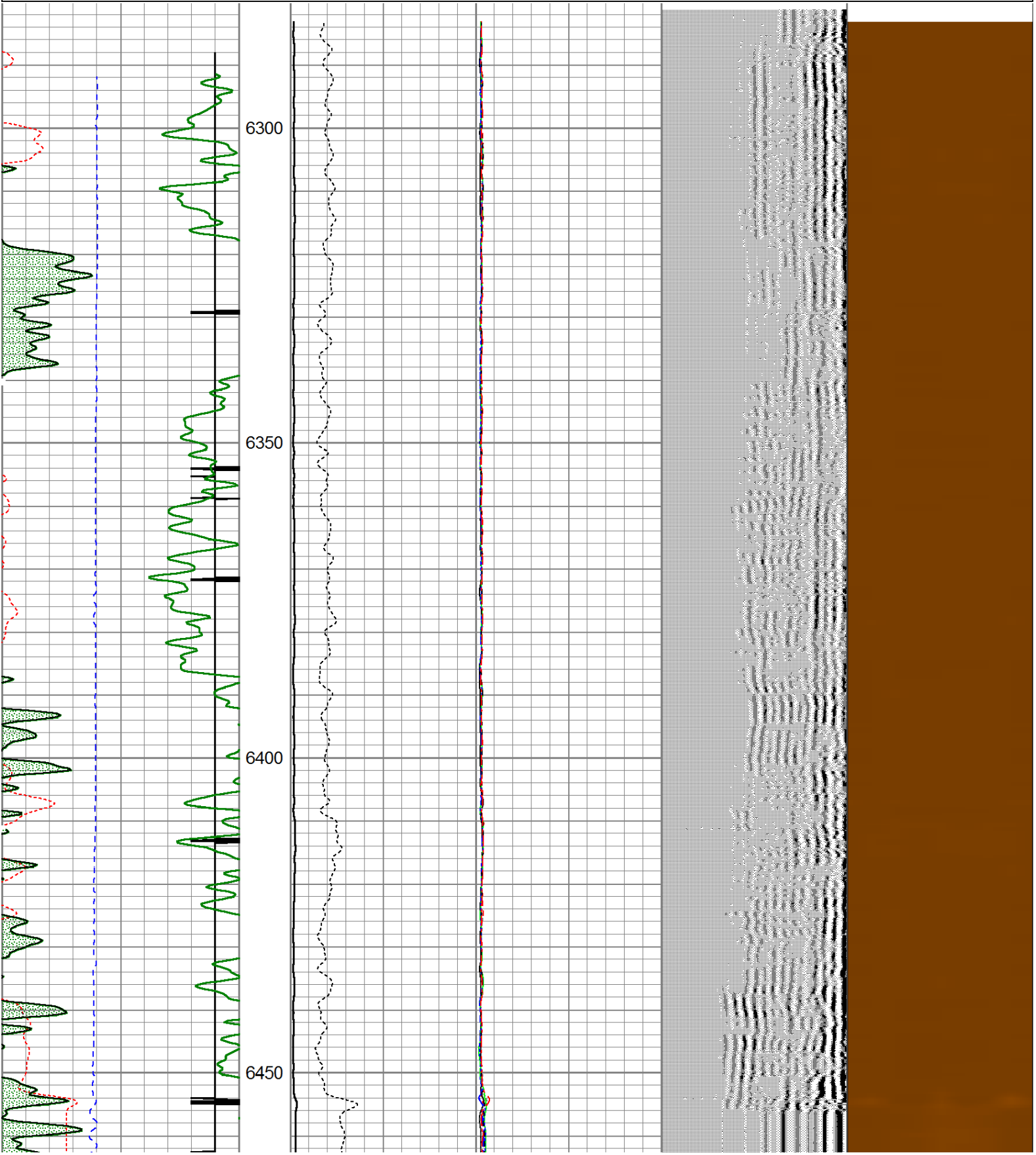


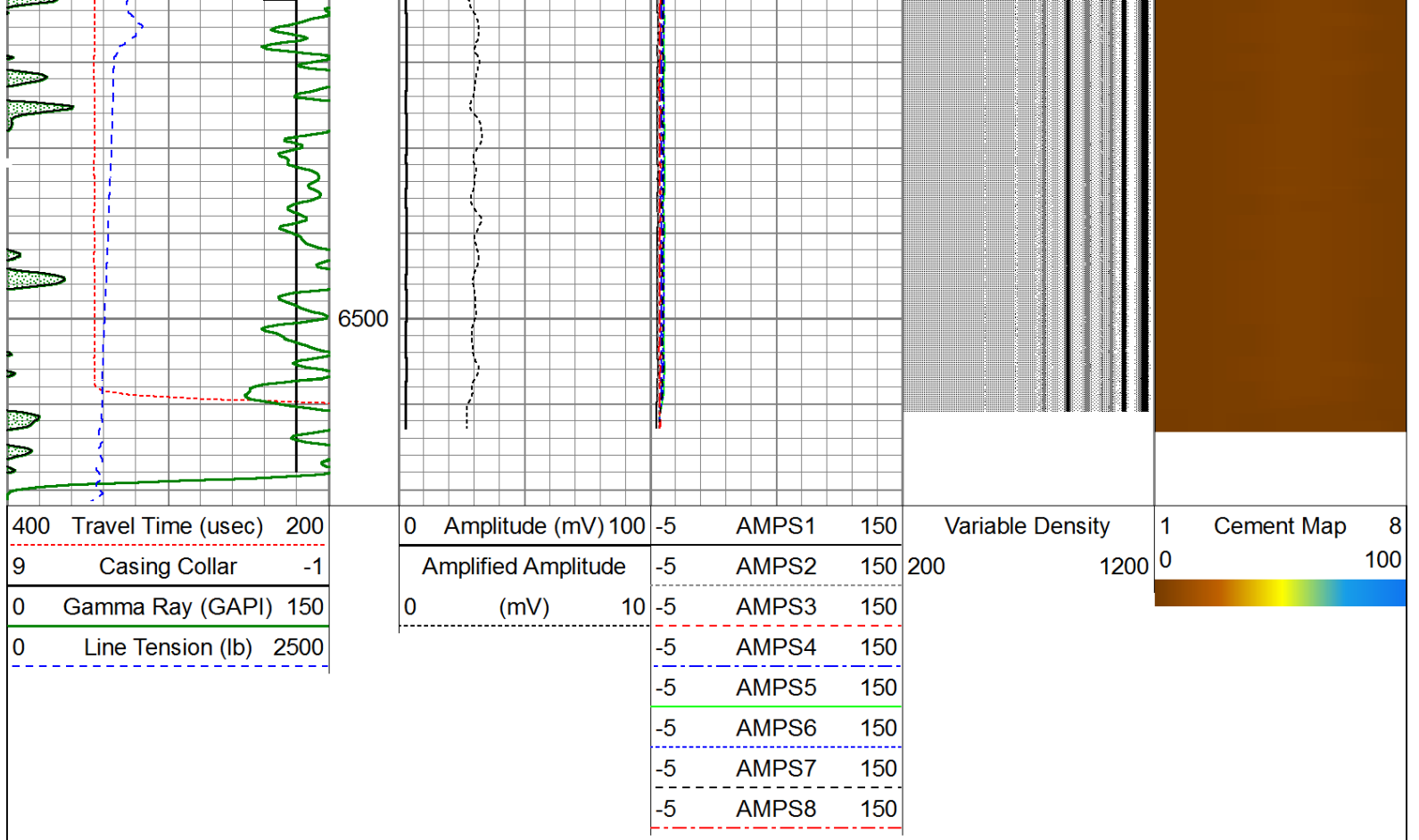


Database File: bonanza creek sate seventy holes 34-31-6hnb_cbl.db
 Dataset Pathname: pass3
 Presentation Format: cblprobe
 Dataset Creation: Sat Oct 05 11:11:54 2013 by Log SCH 120126
 Charted by: Depth in Feet scaled 1:240

400 Travel Time (usec) 200 0 Amplitude (mV) 100 5 AMP04 150 Variable Density 1000 1000

400	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	AMPS1	150	Variable Density		200	1200	0	100	8
9	Casing Collar	-1		Amplified Amplitude											
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	AMPS3	150							
0	Line Tension (lb)	2500				-5	AMPS4	150							
						-5	AMPS5	150							
						-5	AMPS6	150							
						-5	AMPS7	150							
						-5	AMPS8	150							





Calibration Report				
Database File:	bonanza creek sate seventy holes 34-31-6hnb_cbl.db			
Dataset Pathname:	pass5			
Dataset Creation:	Sat Oct 05 11:19:45 2013 by Log SCH 120126			
Gamma Ray Calibration Report				
Serial Number:	110108-Dig			
Tool Model:	Probe275			
Performed:	Wed Jul 10 19:14:22 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 Sep 29 11:21:21 2013			
	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	1			
Segmented Cement Bond Log Calibration Report				
Serial Number:	101224			

Tool Model:

Probe

Calibration Casing Diameter:

7.000

in

Calibration Depth:

3107.770

ft

Master Calibration, performed Sat Oct 05 10:21:13 2013:

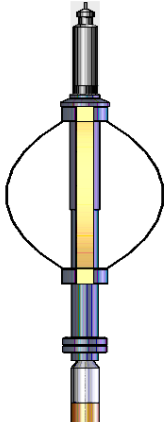
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.007	0.629	1.000	62.165	98.664	2.689
CAL	-0.016	1.131				
5'	-0.010	0.538	1.000	62.165	111.571	2.171
SUM						
S1	-0.001	0.674	0.000	100.000	148.124	0.170
S2	-0.007	0.638	0.000	100.000	155.122	1.085
S3	-0.011	0.602	0.000	100.000	163.230	1.795
S4	-0.012	0.598	0.000	100.000	163.981	1.892
S5	-0.012	0.599	0.000	100.000	163.706	1.970
S6	-0.011	0.614	0.000	100.000	159.757	1.835
S7	-0.014	0.646	0.000	100.000	151.496	2.069
S8	-0.011	0.643	0.000	100.000	152.867	1.638

Internal Reference Calibration, performed Wed Jul 10 20:06:34 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.016	1.131	1.000	0.000

Air Zero Calibration, performed Sat Oct 05 08:30:48 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	-0.007		0.000		0.000	
5'	-0.007		0.000		-0.003	
SUM						
S1	0.007		0.000		-0.008	
S2	-0.004		0.000		-0.003	
S3	-0.008		0.000		-0.003	
S4	-0.006		0.000		-0.006	
S5	-0.007		0.000		-0.006	
S6	-0.007		0.000		-0.005	
S7	-0.007		0.000		-0.006	
S8	-0.007		0.000		-0.004	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	20.28		Titan Cable_head	1.00	1.44	10.00
CENT	19.28		Probe275 2.75" Centralizer	2.88	2.75	20.00

WVF3FT	11.84		RBT-Probe (101224) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFCAL	11.84					
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					
CENT	7.66		Probe275 2.75" Centralizer	2.88	2.75	20.00
GR	4.78					
TEMP	4.00					
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 sate seventy holes 34-31-6hnb_cbl.db: field/well/run1/pass5.3				
Total Length:		20.28 ft				
Total Weight:		197.00 lb				
O.D.		2.75 in				