

**CEMENT BOND LOG
GAMMA RAY CCL
V D L**

Company Noble Energy INC.
Well MARLEY C01-24D
Field Wattenberg
County Weld
State Colorado

Location: API #: 05123313400000

Other Services

SHL: 1980' FSL & 613' FWL NESW
BHL: 1245' FSL & 2500' FEL SWSE
SEC 01 TWP 4N RGE 64W

Elevation

Permanent Datum GL
Log Measured From KB 15'
Drilling Measured From KB

K.B. 4625
D.F. 4624
G.L. 4611

Date January 26, 2012

Run Number	One	
Depth Driller	7360	
Depth Logger	7297	
Bottom Logged Interval	7296	
Top Log Interval	1046	
Casing Size	4 1/2"	
Type Fluid	Water	
Max. Recorded Temp.	222 deg F	
Estimated Cement Top	1880	
Time Well Ready	Crane	
Time Logger On Bottom	AM	
Unit Number	4367	4515
Tool Size / ID Number	2.75 Probe 110802	2.75 Probe 101010
Location	Platteville, CO	
Recorded By	K. Monaghan	
Witnessed By	J. Brnak	

Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24 lb/ft J-55	Surface	696
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	7357
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.

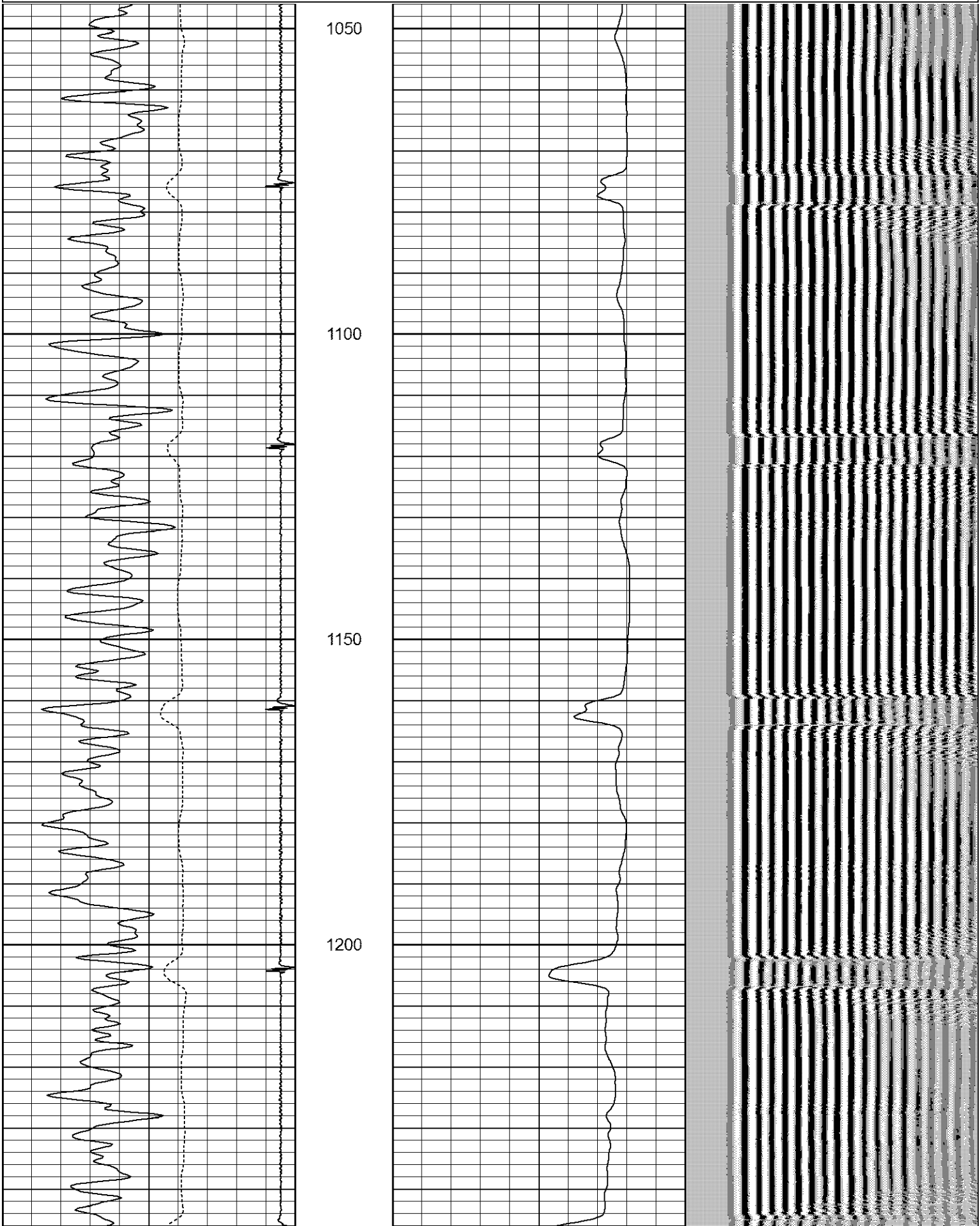
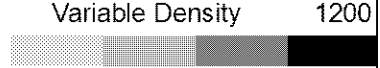
Comments

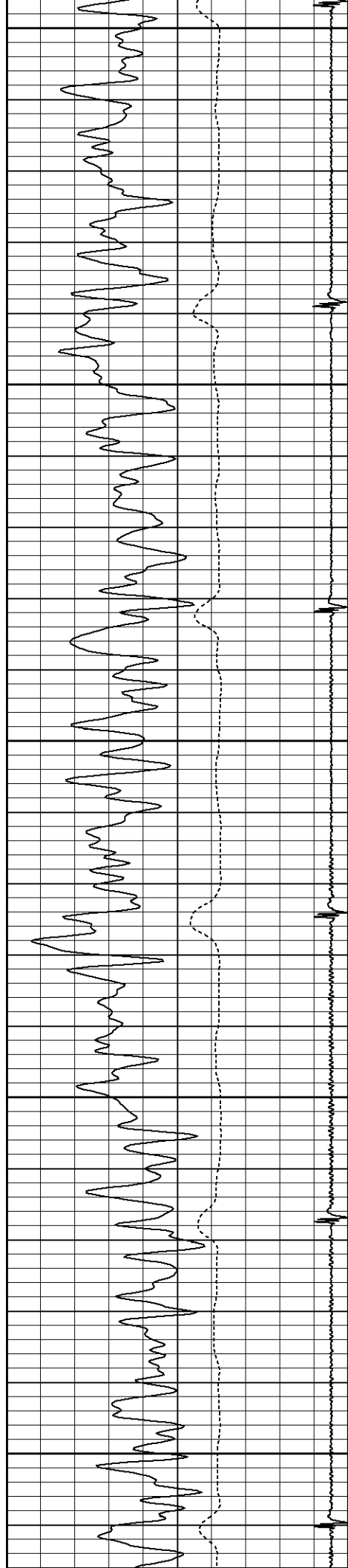
Thank You For Choosing Superior Well Services!!!
API# 05-123-31340-0000
Correlated to PSI's
Compensated Density / Compensated Neutron / Microlog
Dated: January 8, 2012
Directions: 48 & 59, N 4/10, E into
(Center Well of 3 Well Pad)

Database File: cblmarley c01-24d.db
Dataset Pathname: pass3
Presentation Format: noble en
Dataset Creation: Thu Jan 26 10:44:07 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

80	CCL	-4
30	Gamma Ray (GAPI)	130
340	TT3 (usec)	240

0	Amplified Amplitude (mV)	30
0	Amplitude (mV)	100





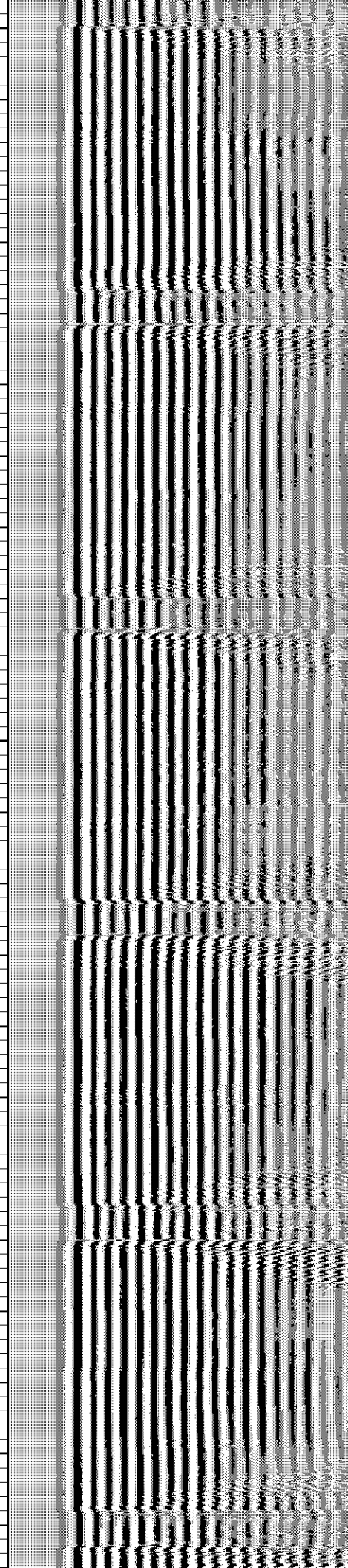
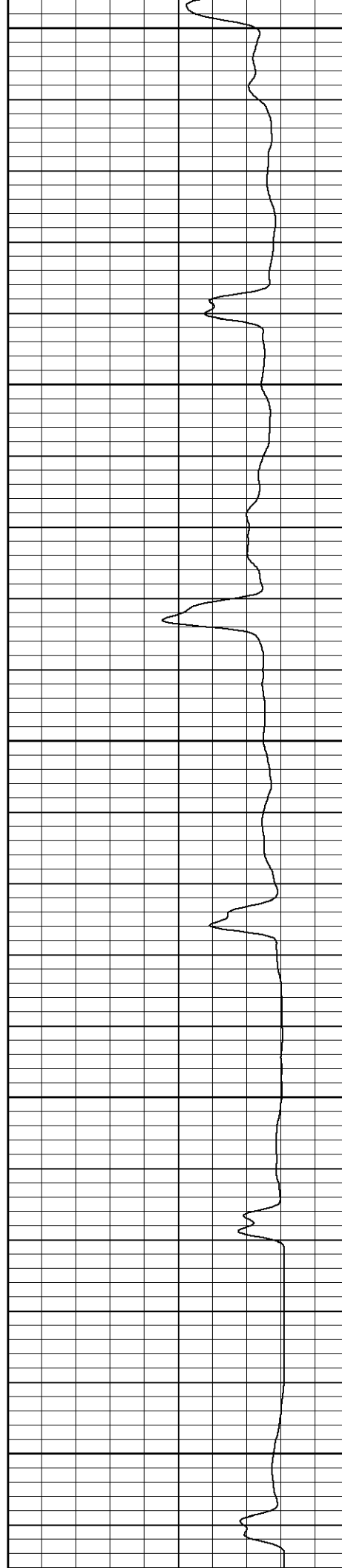
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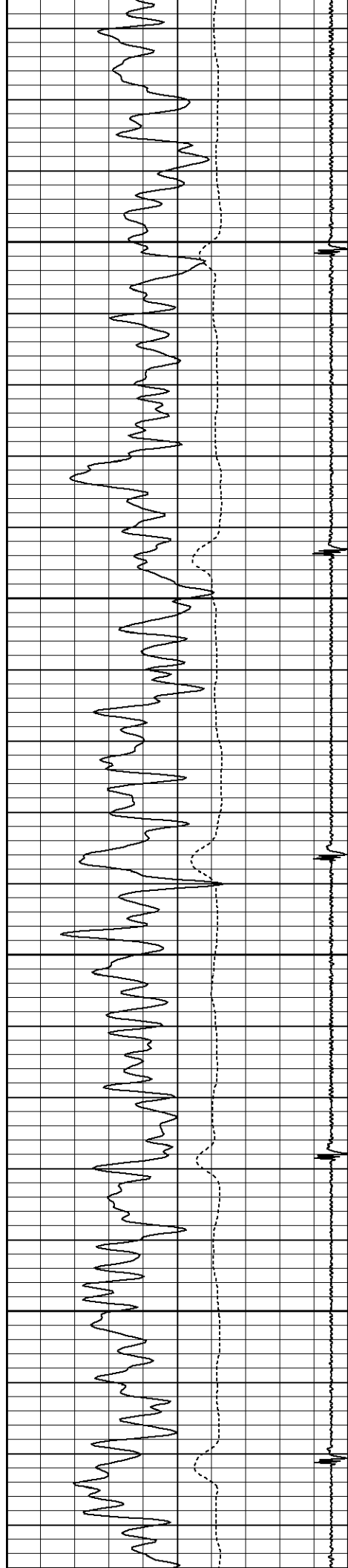
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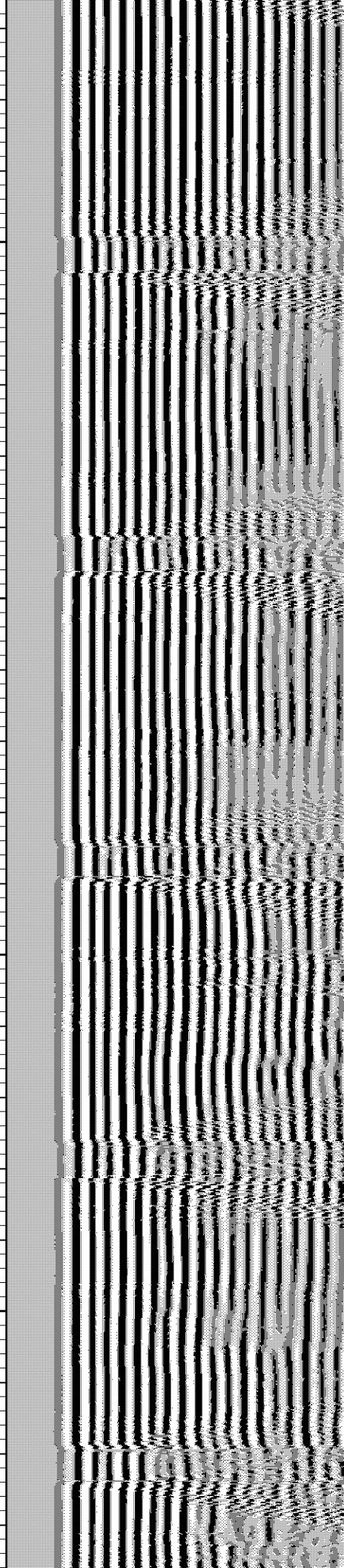
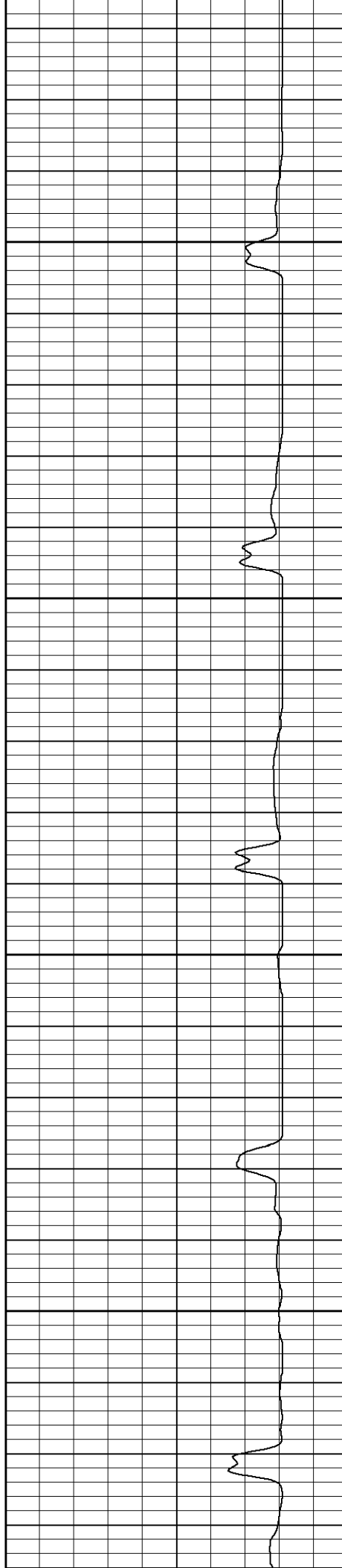


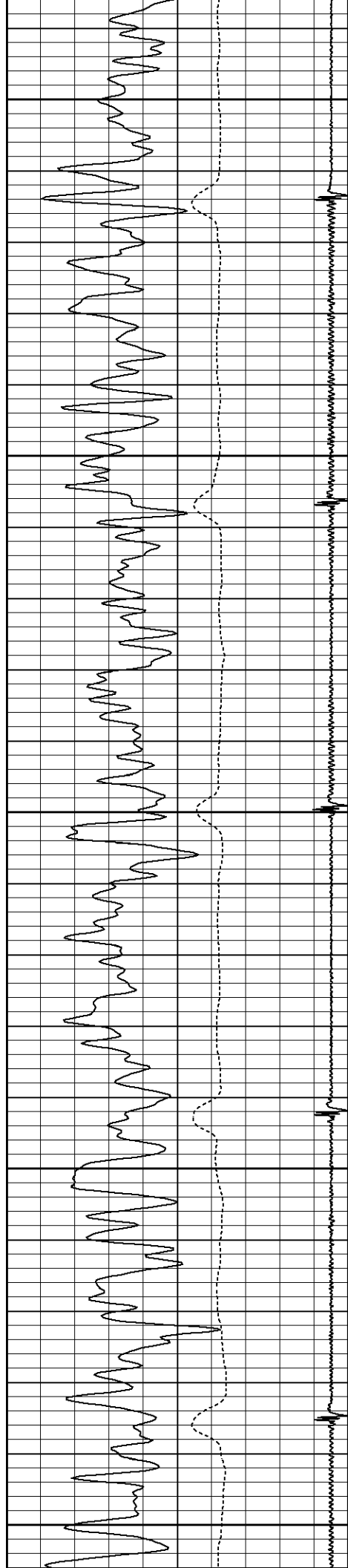
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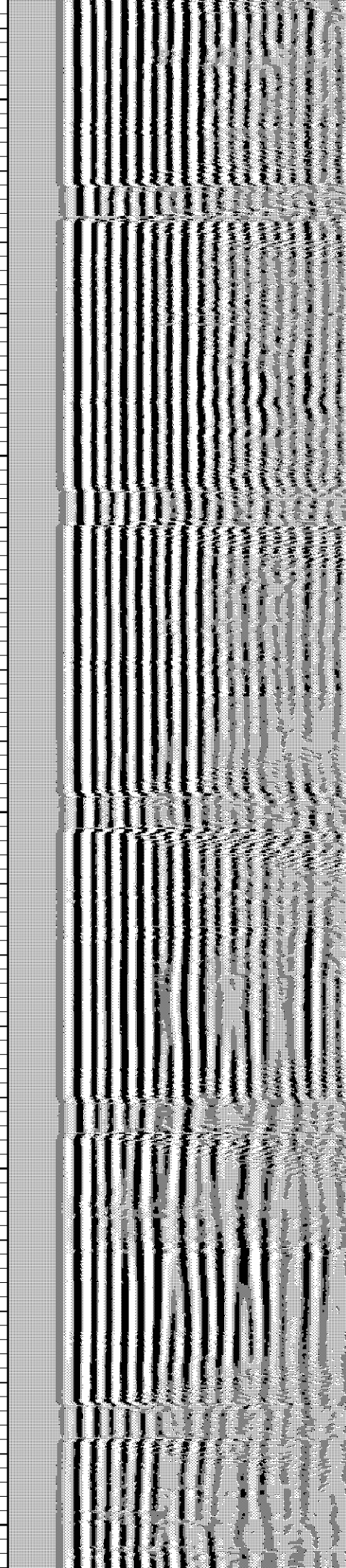
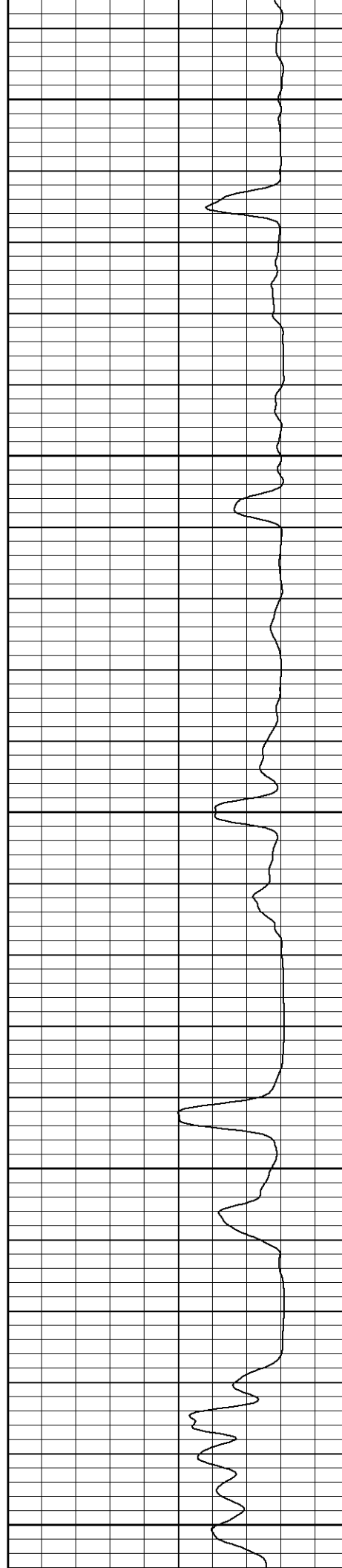
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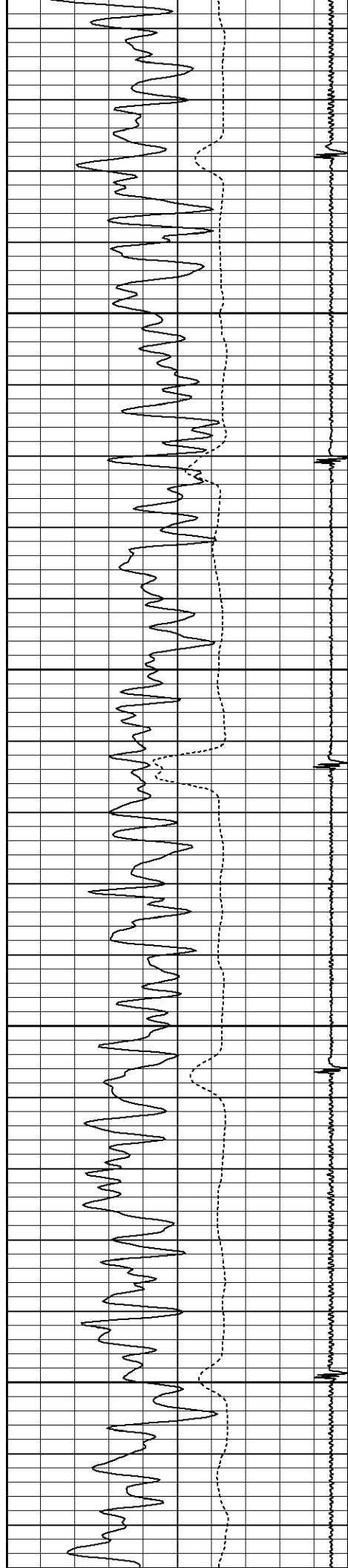
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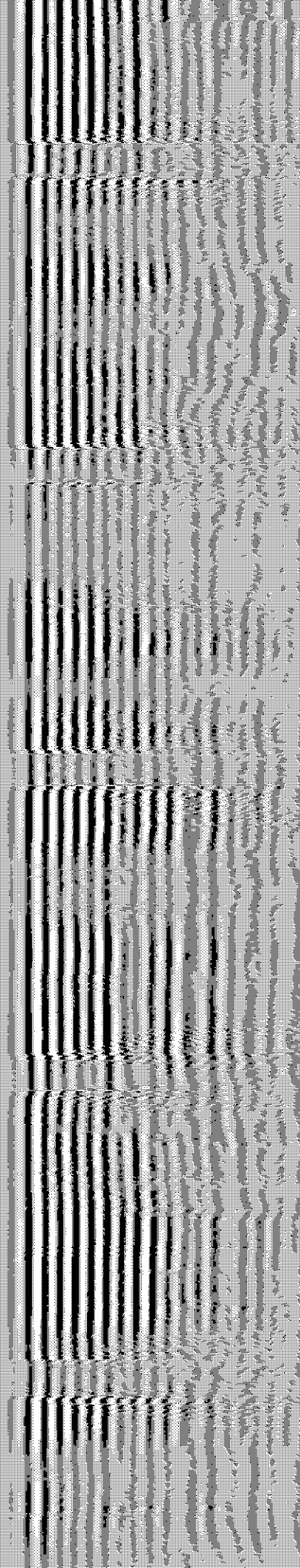
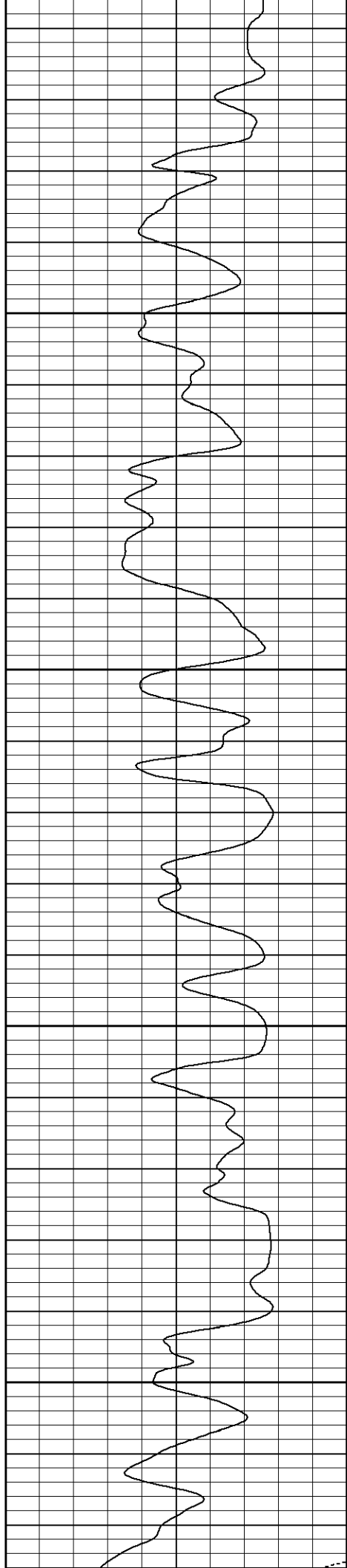


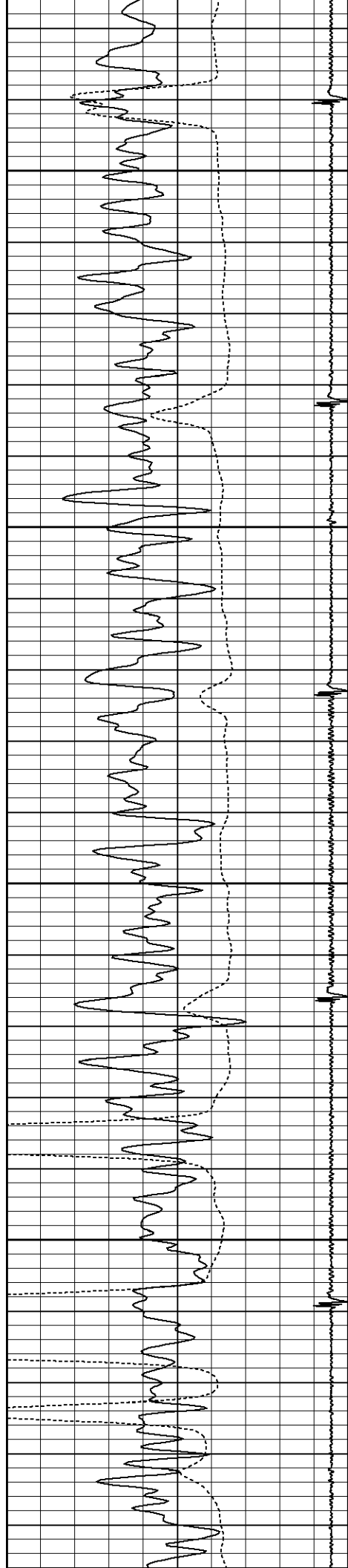
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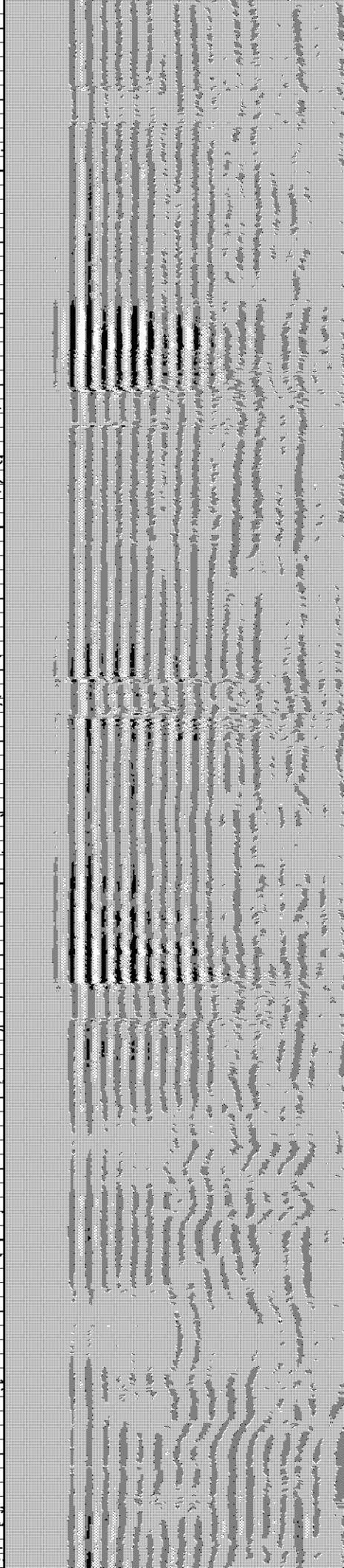
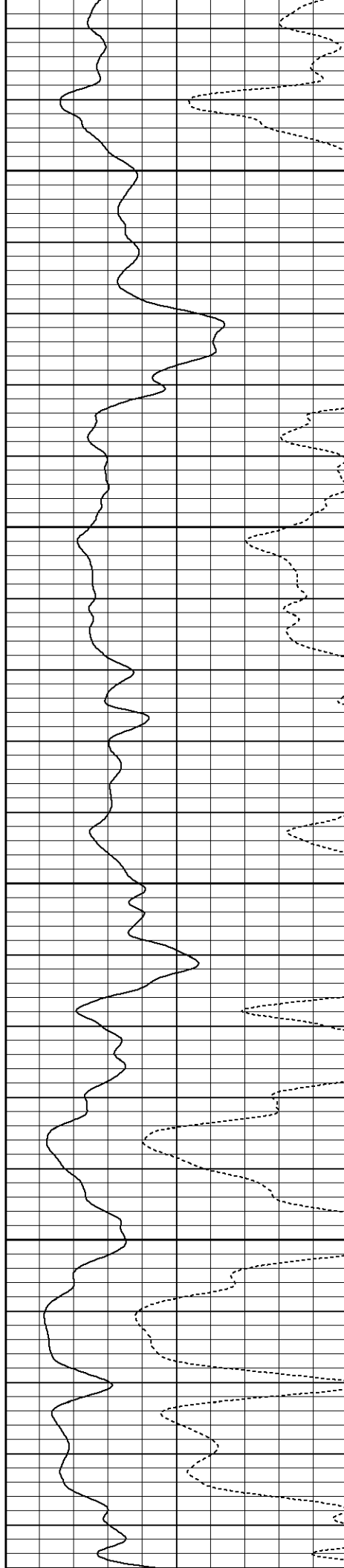


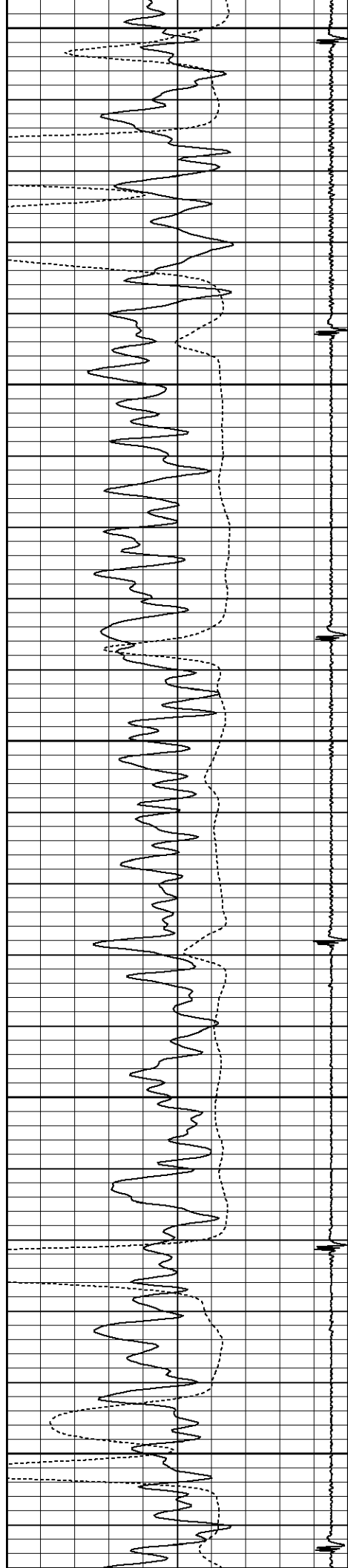
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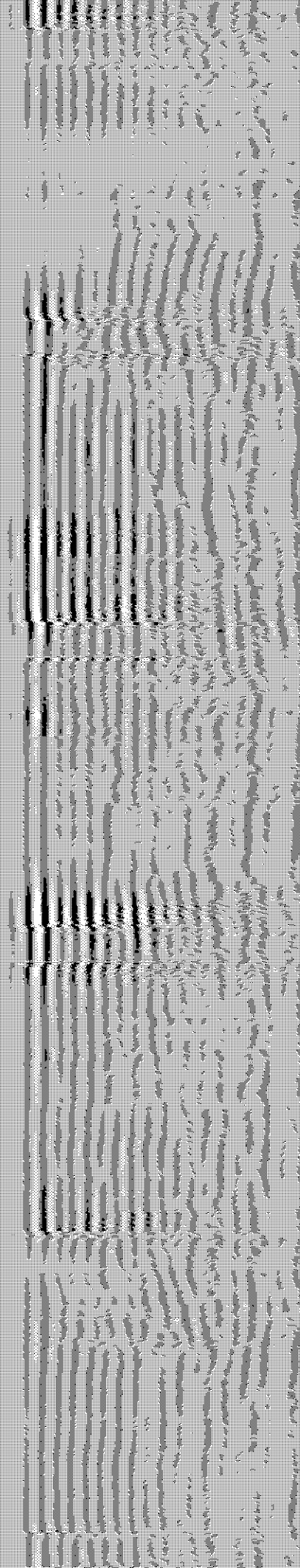
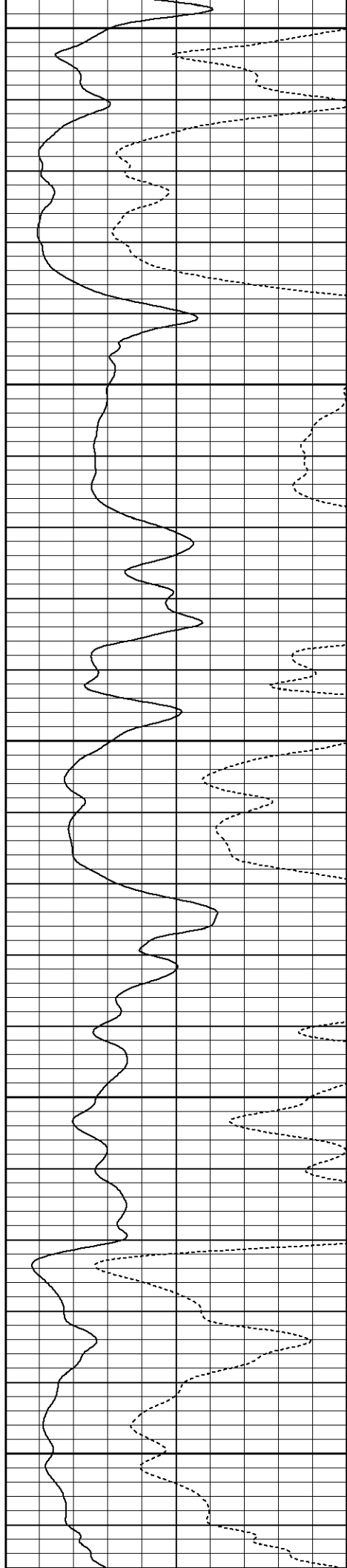
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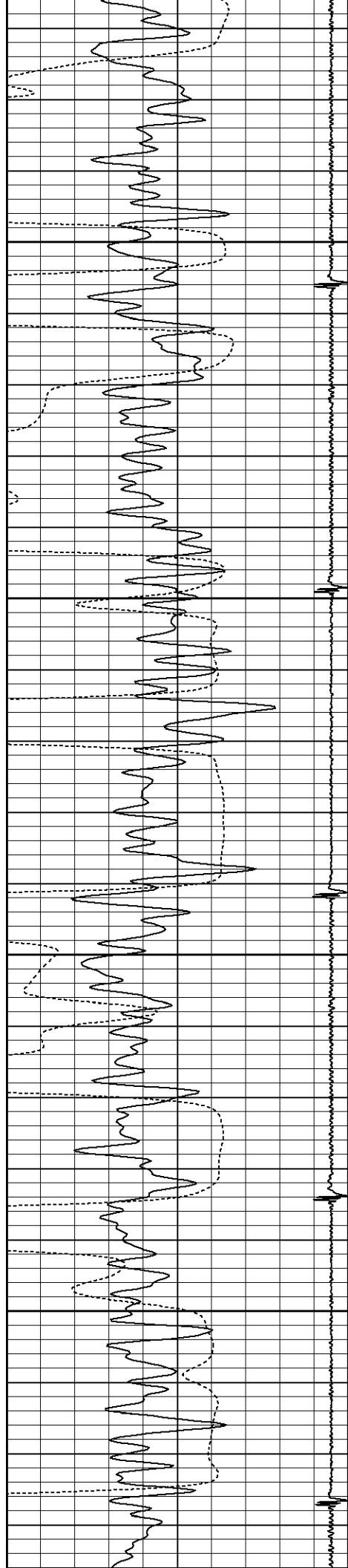
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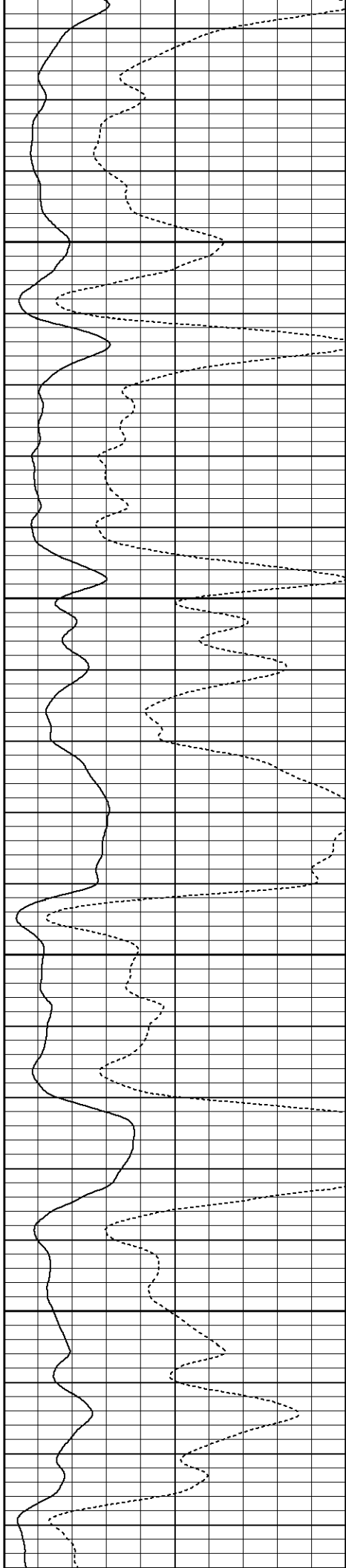


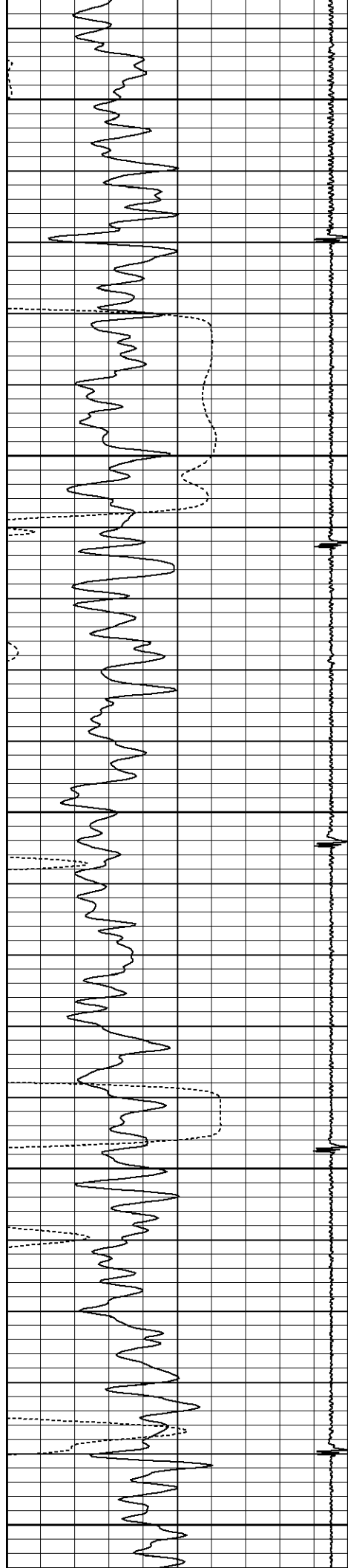
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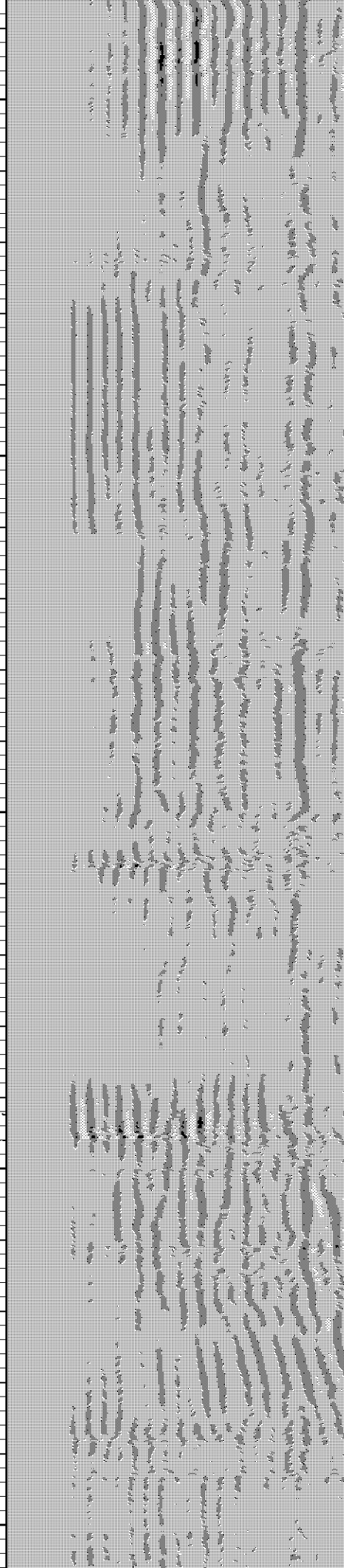
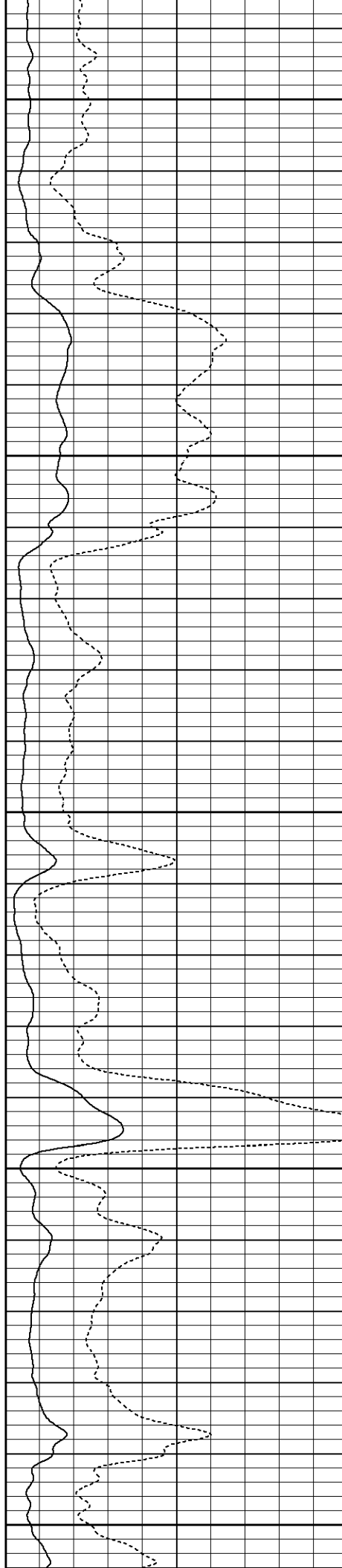
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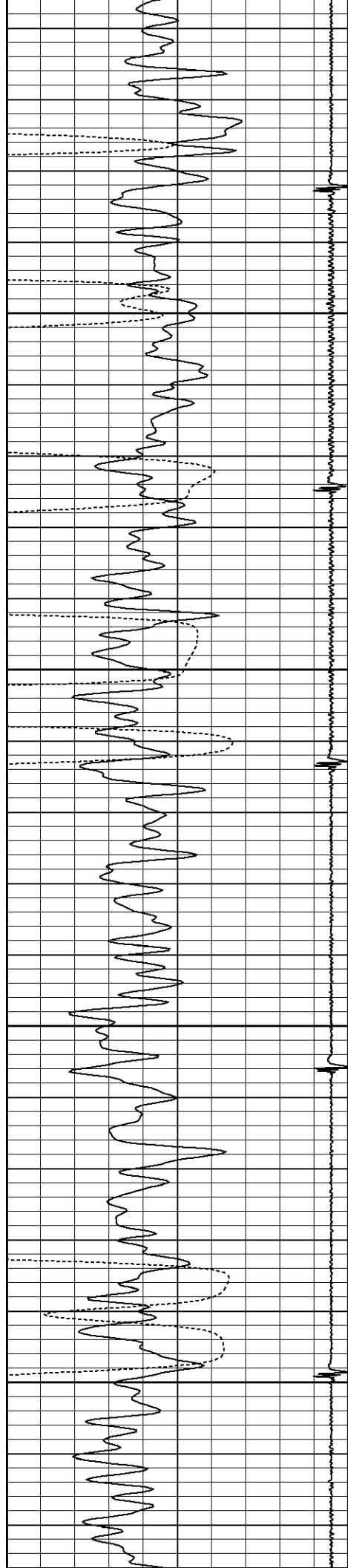
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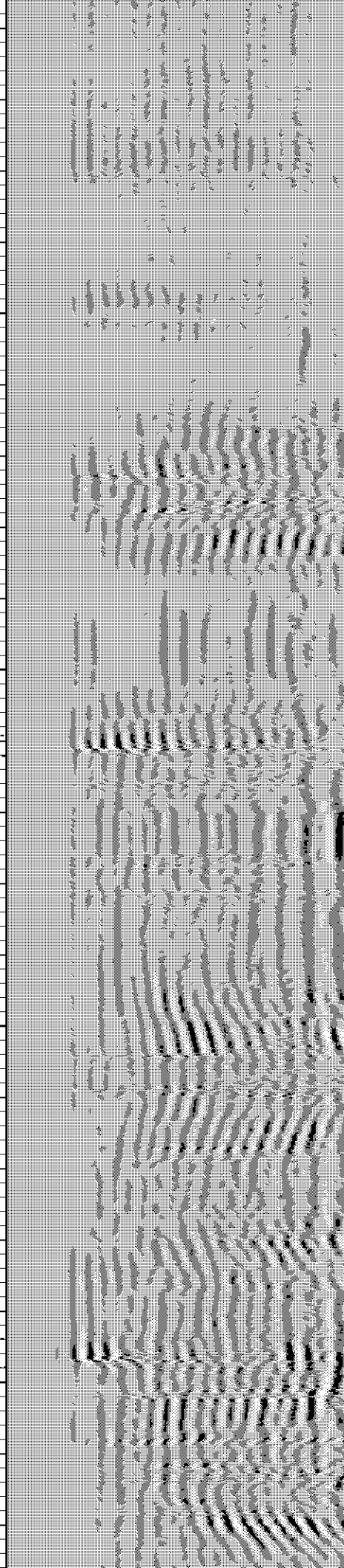
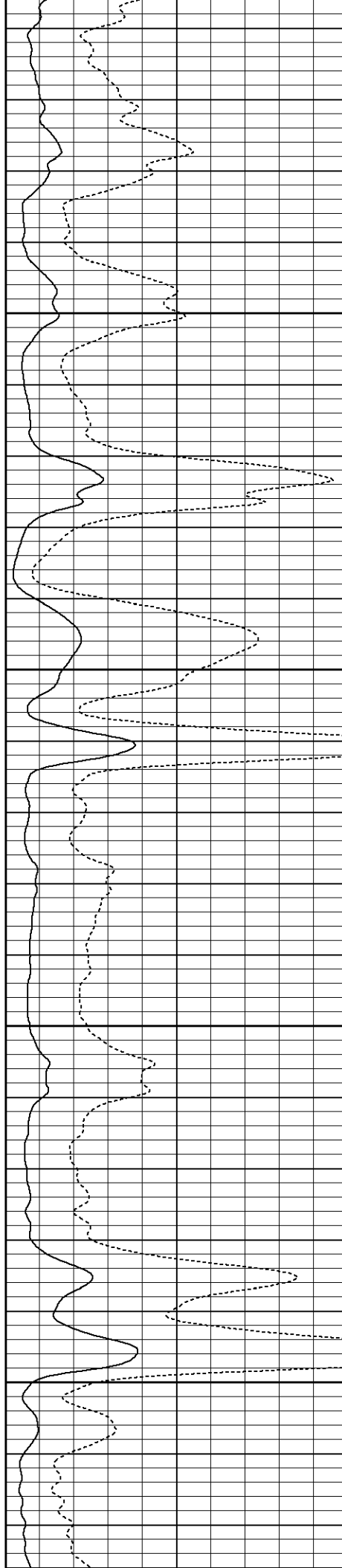


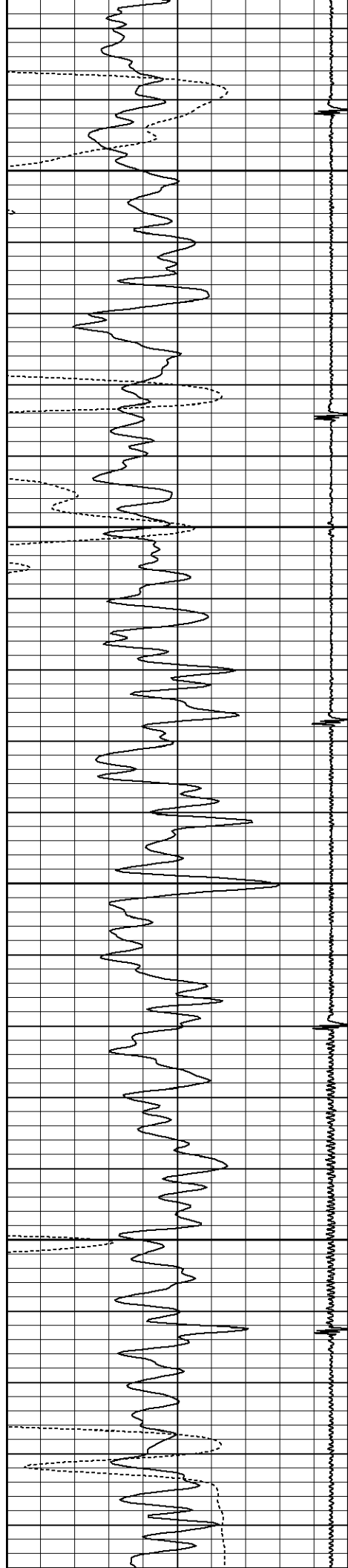
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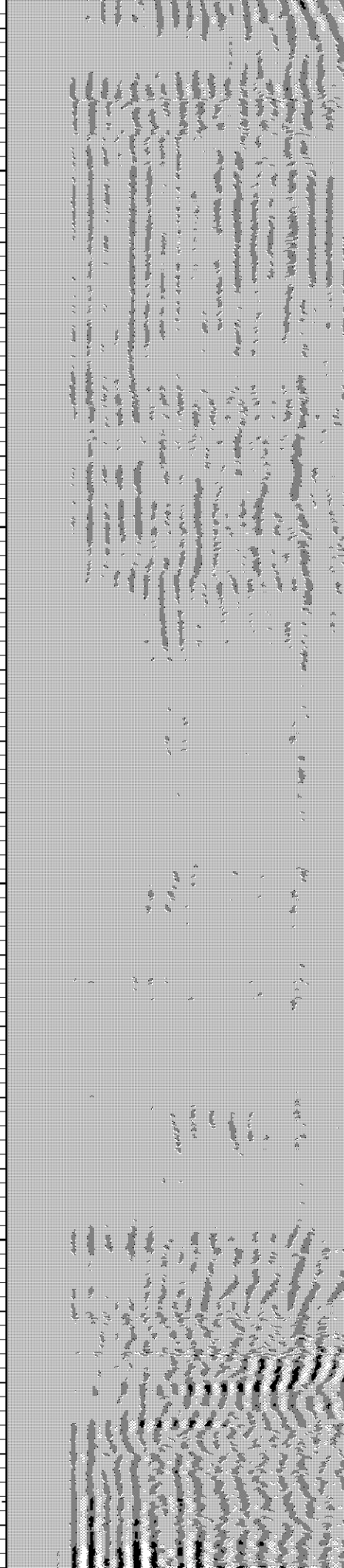
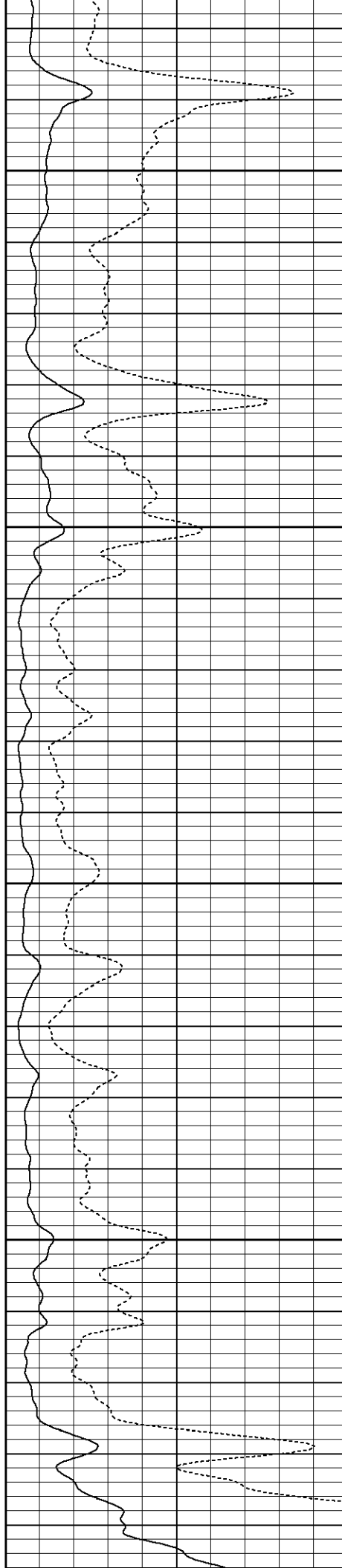


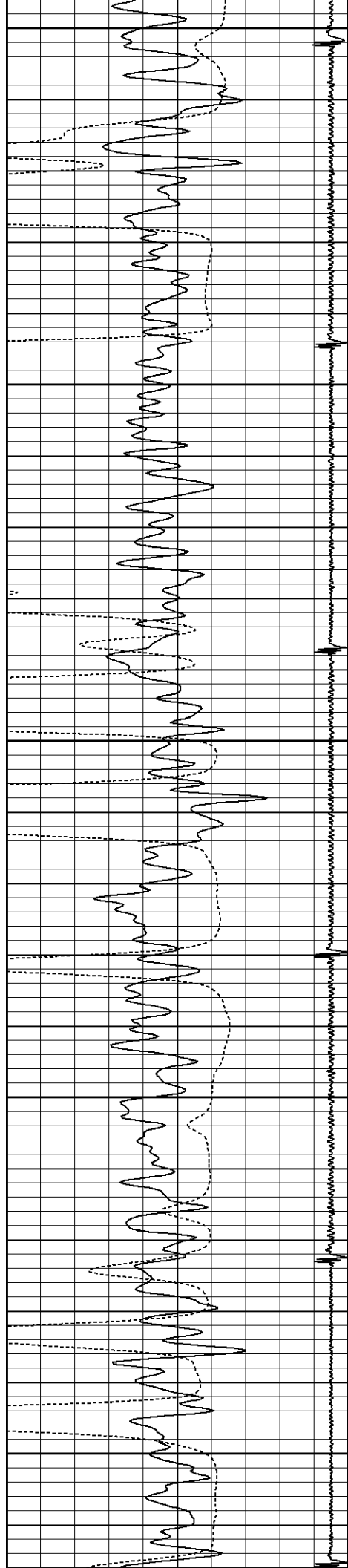
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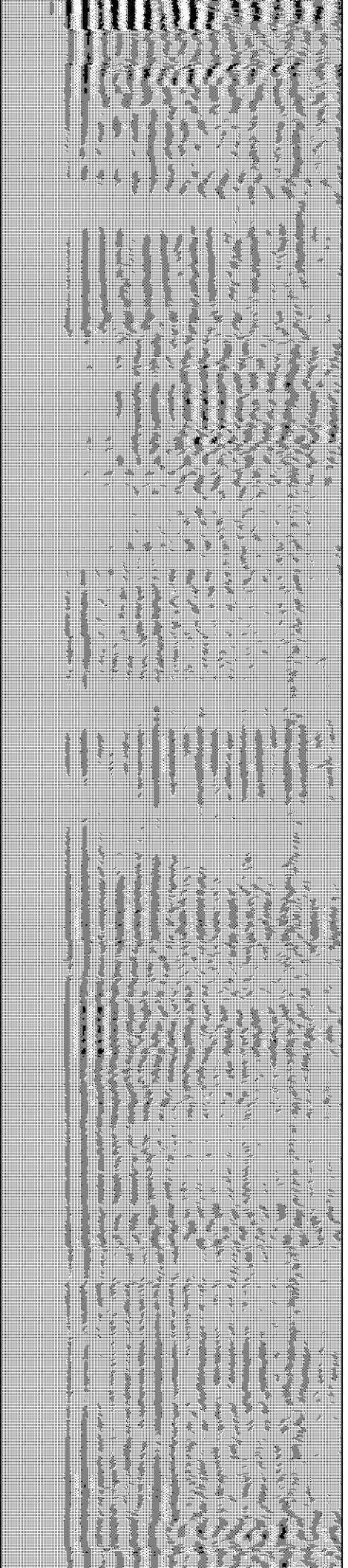
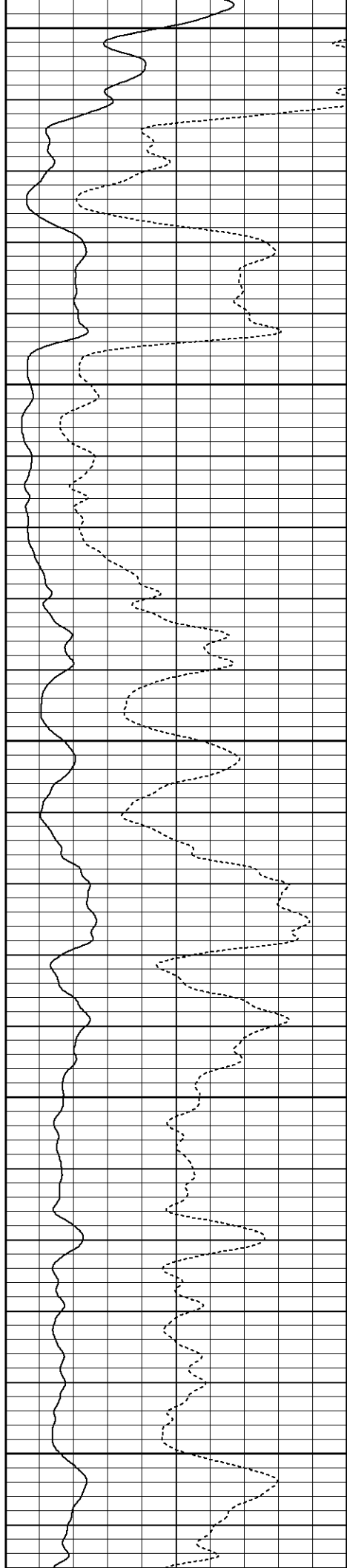
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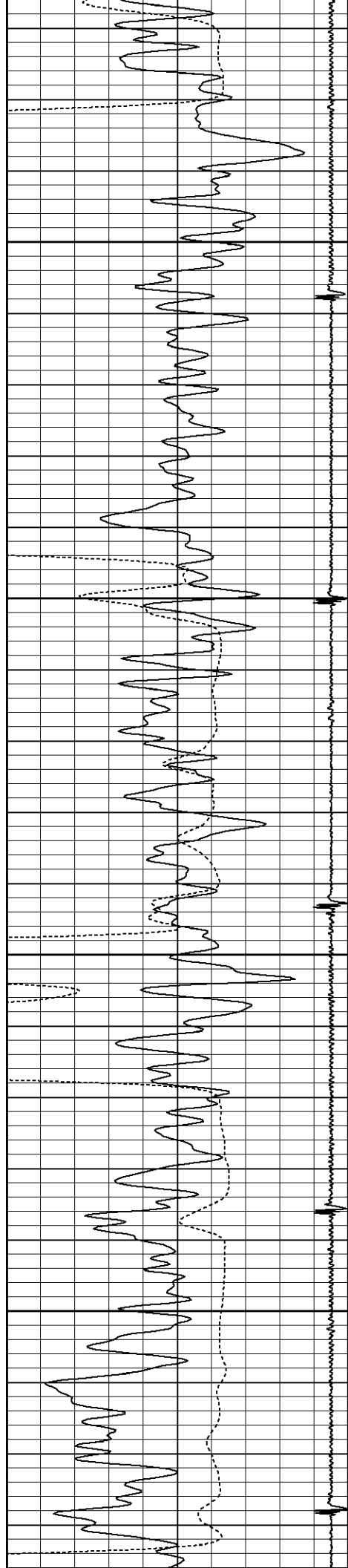
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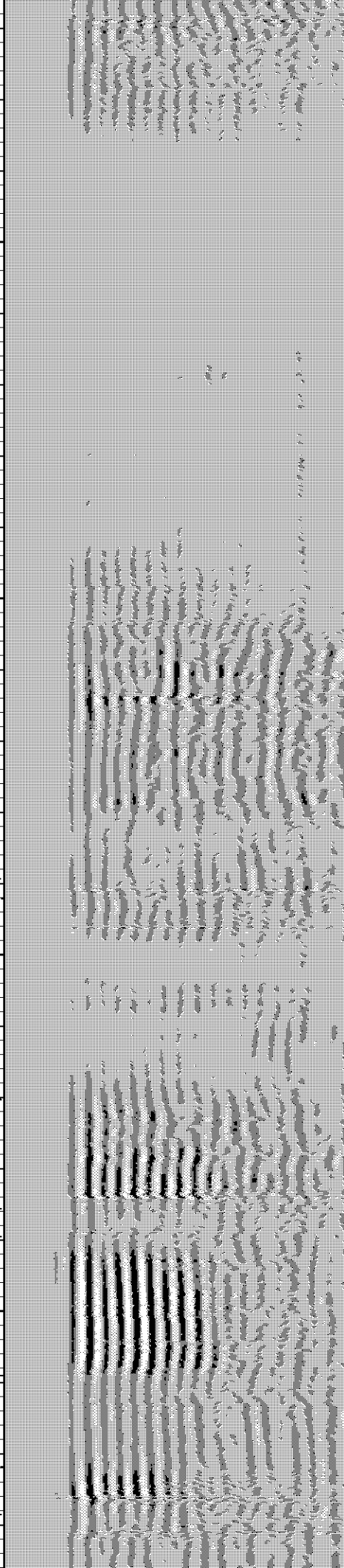
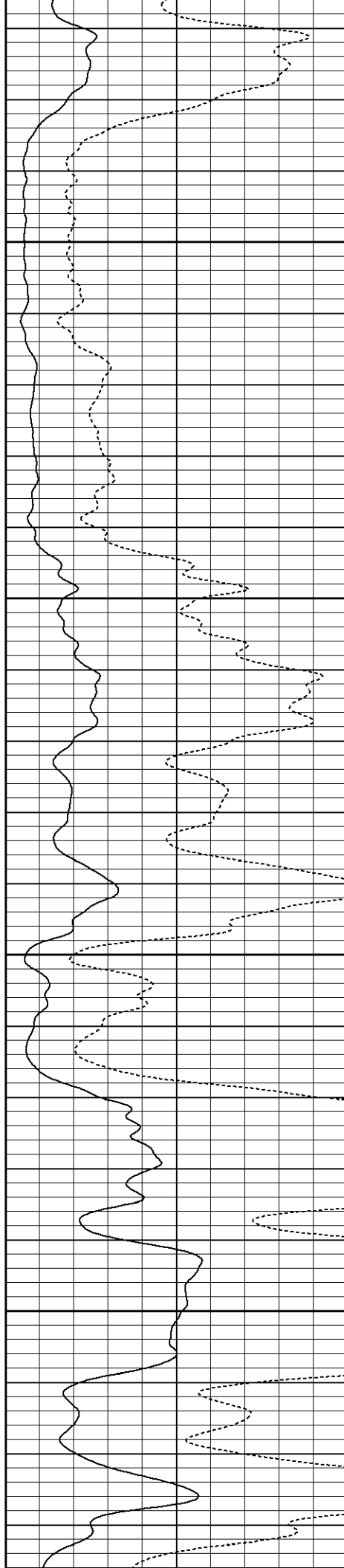


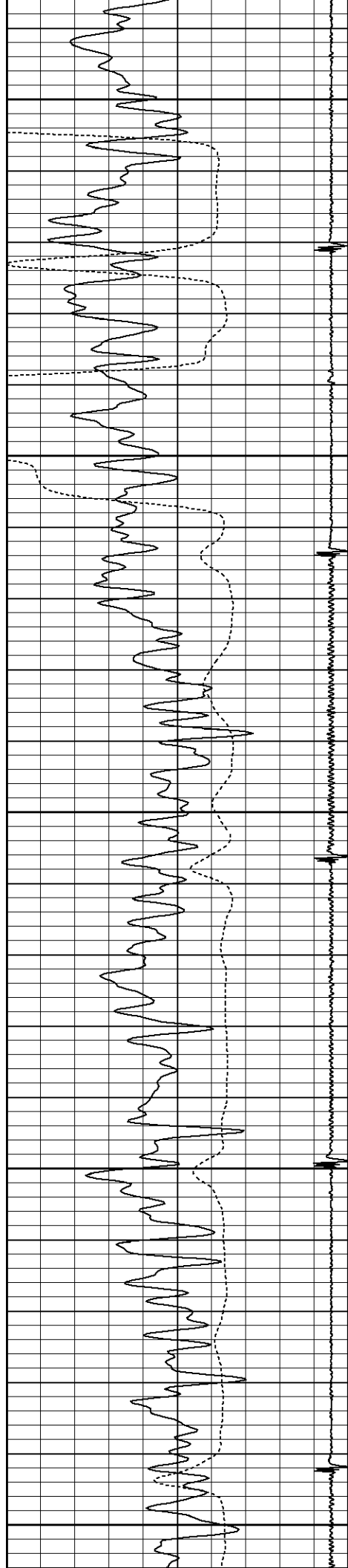
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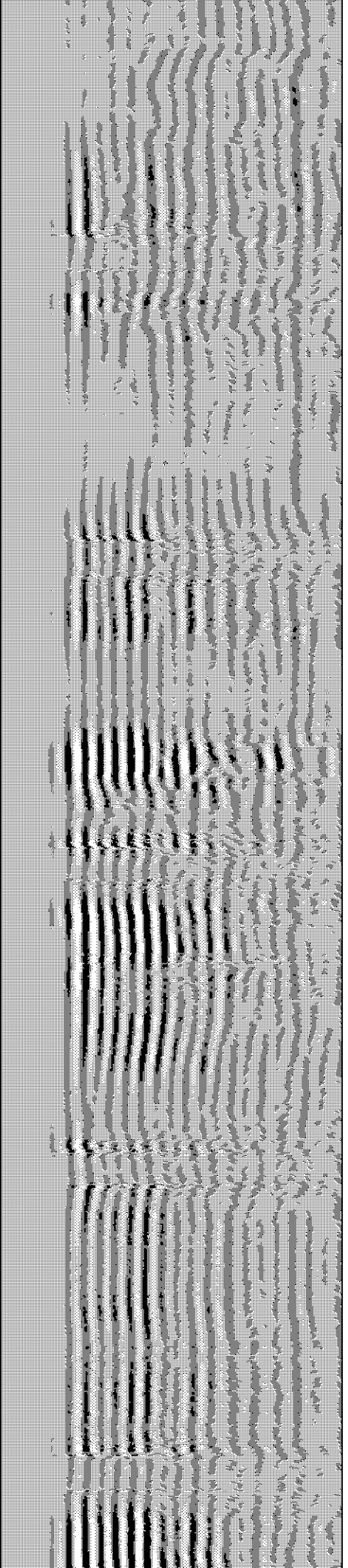
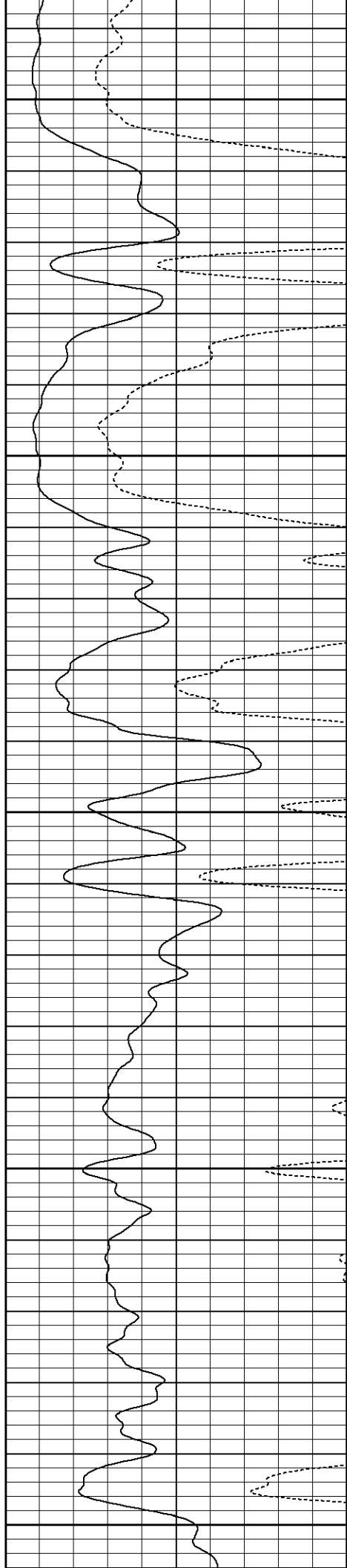
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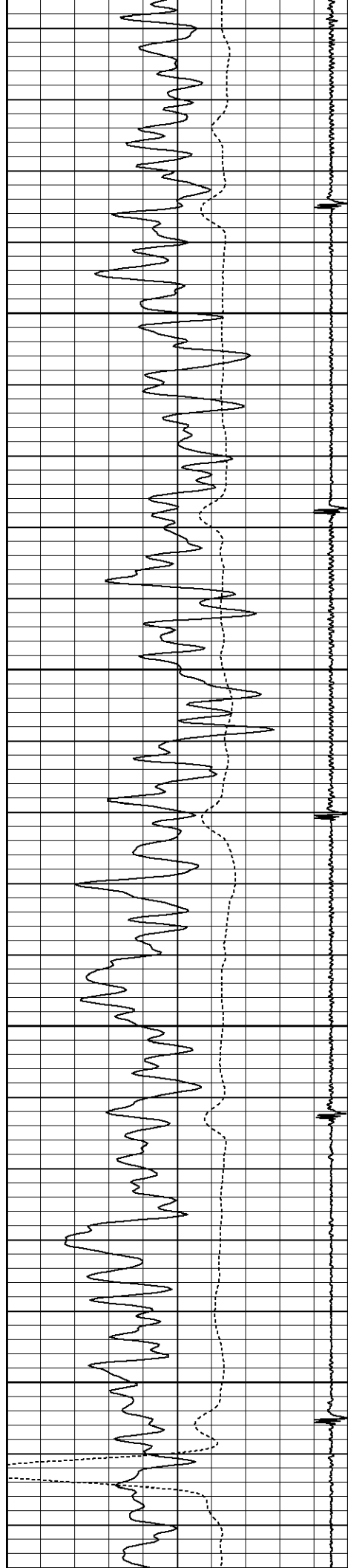
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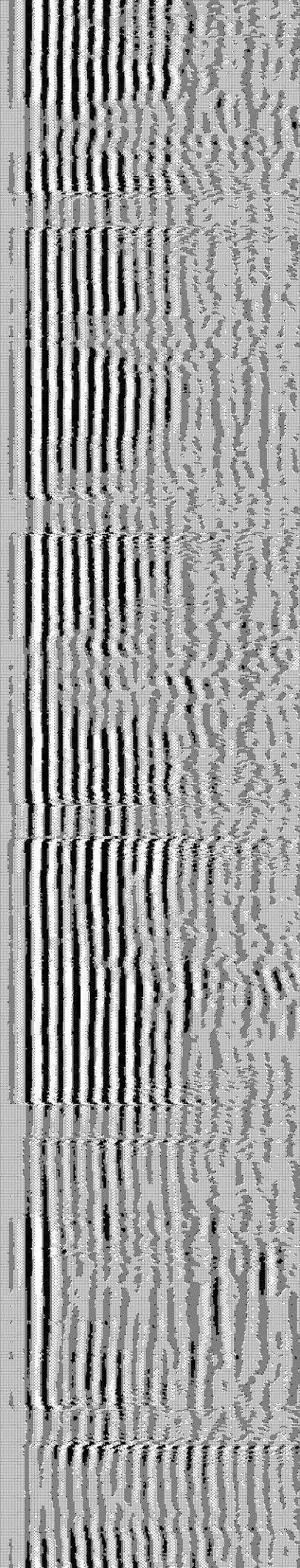
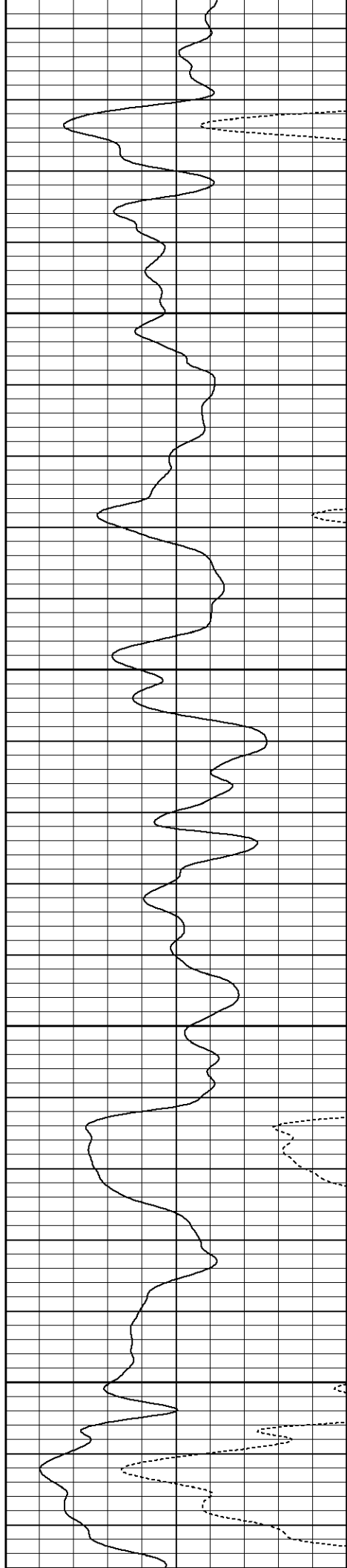


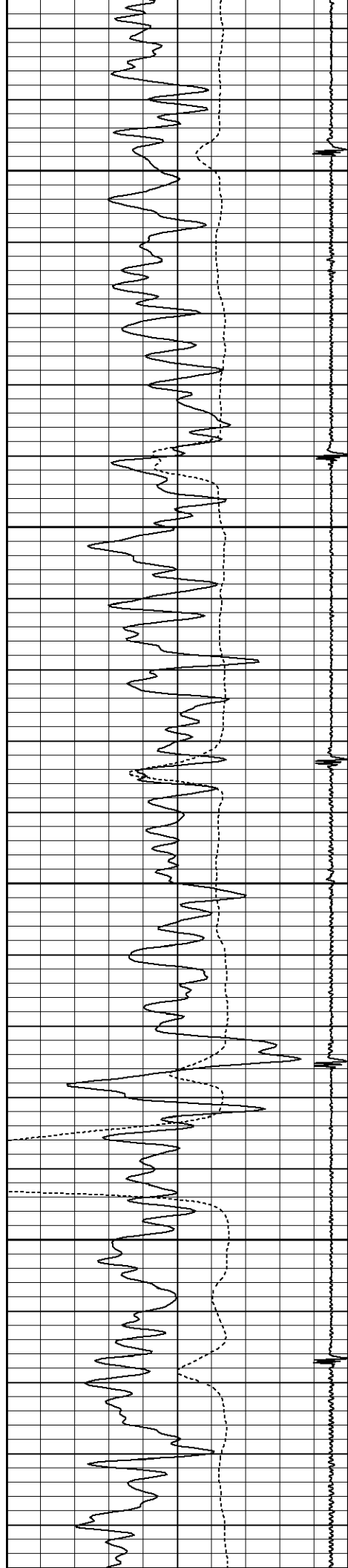
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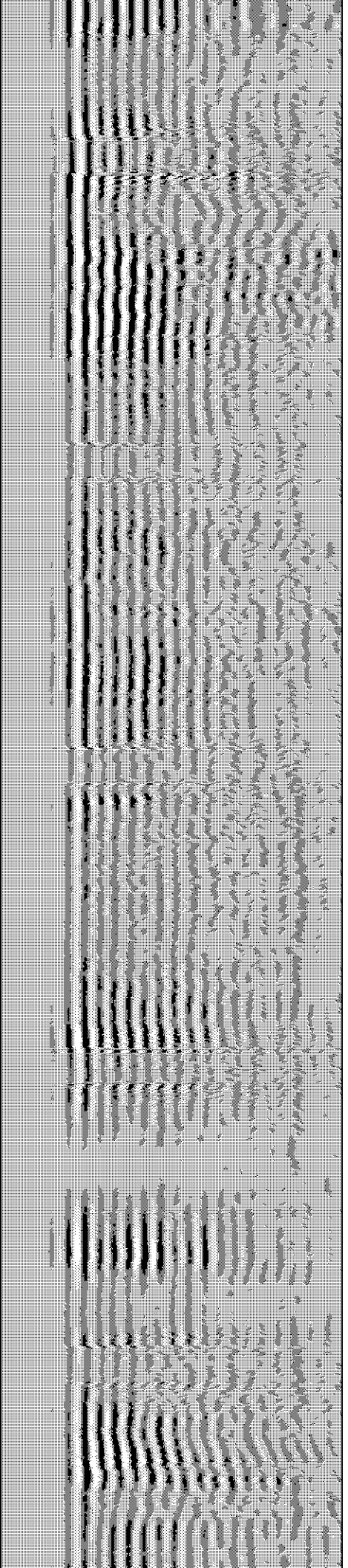
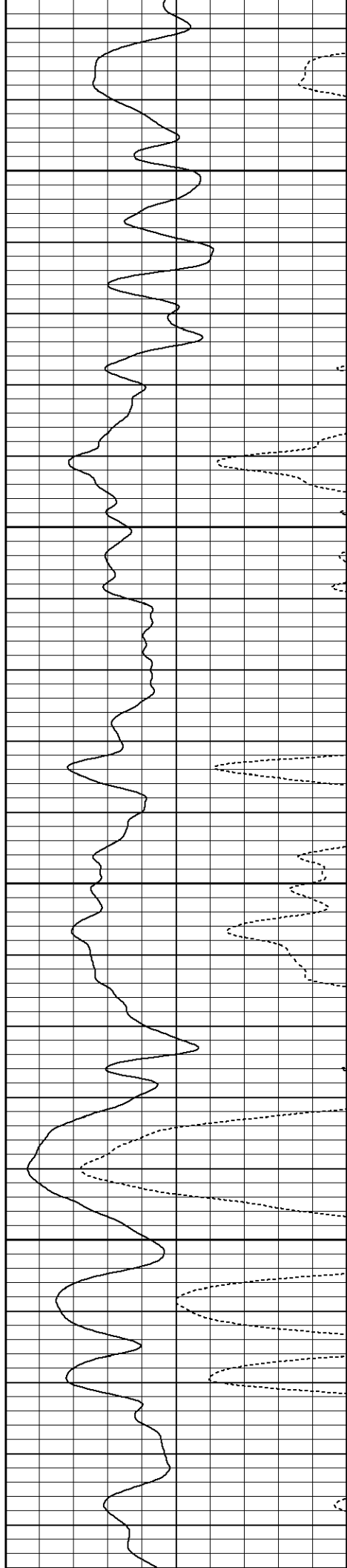


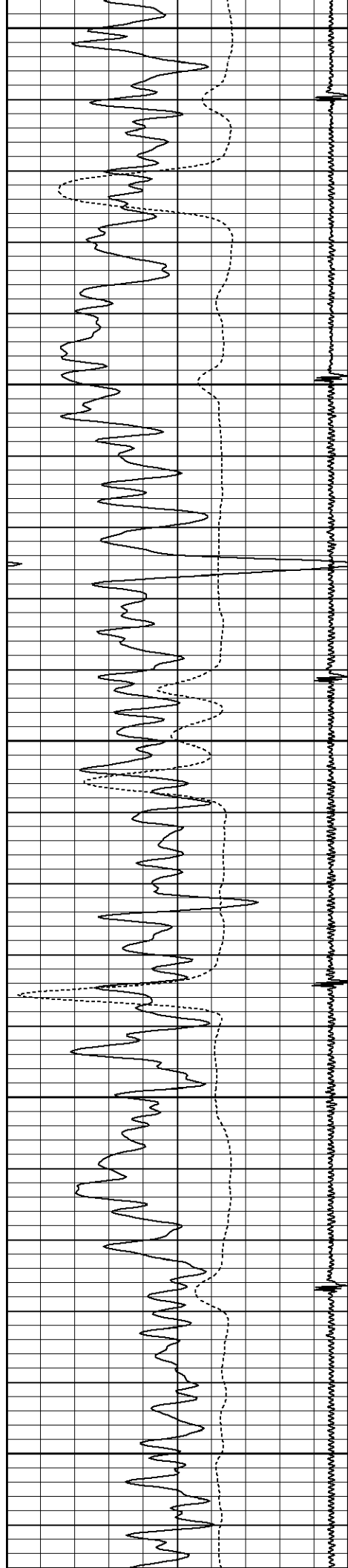
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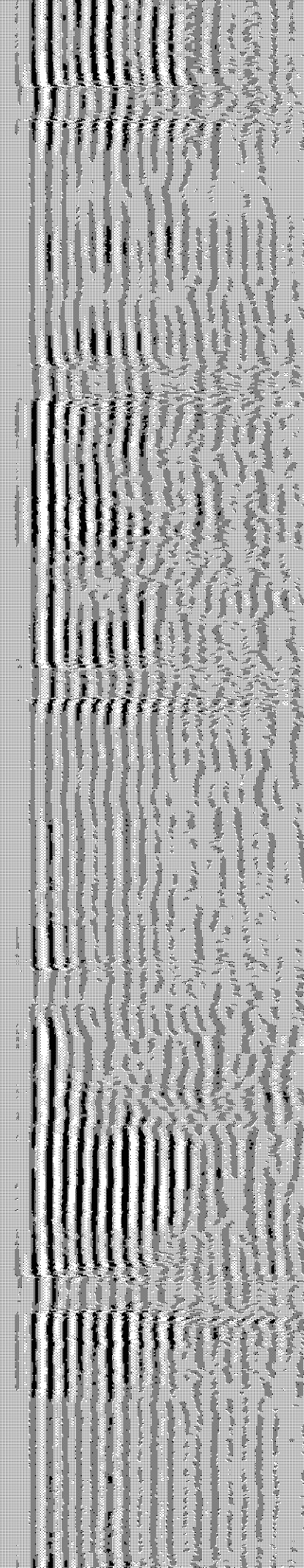
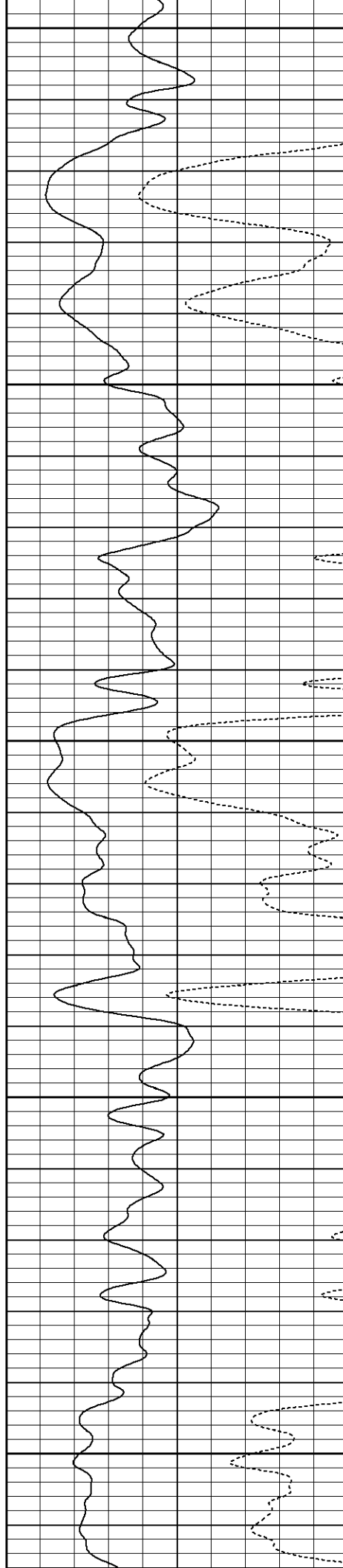
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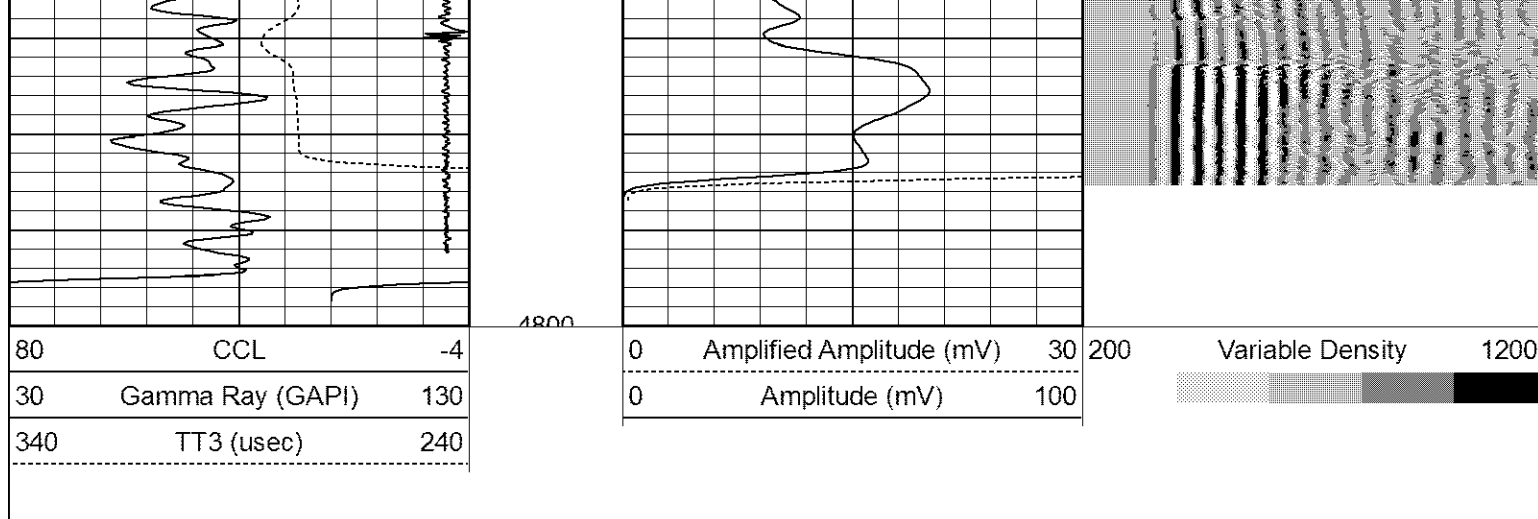
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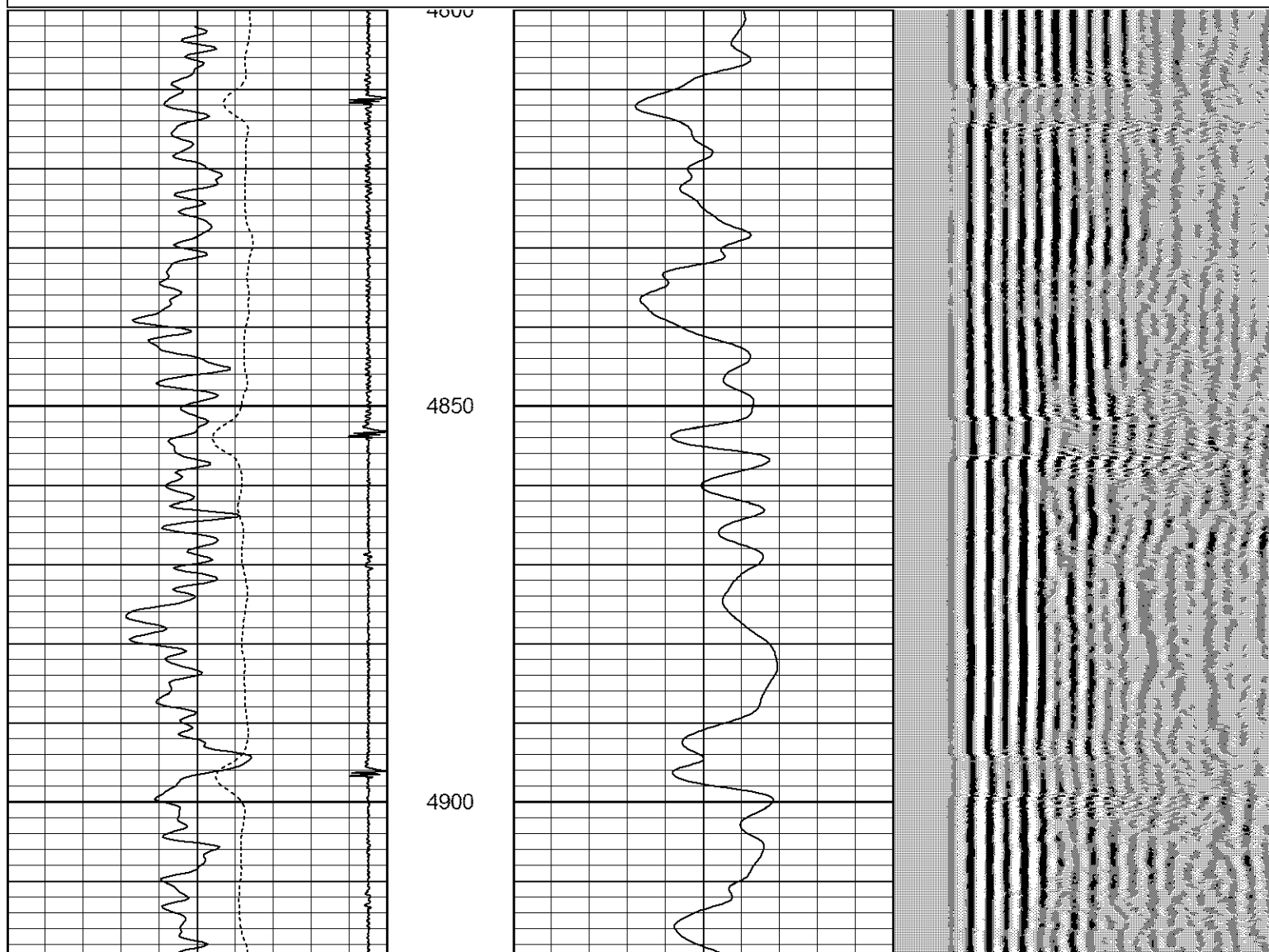
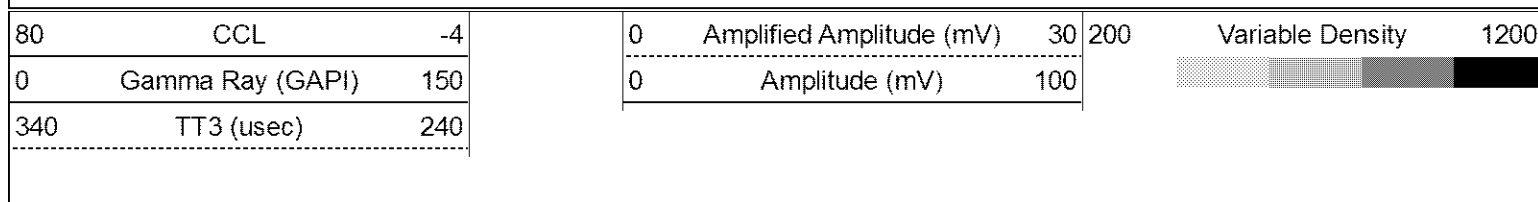
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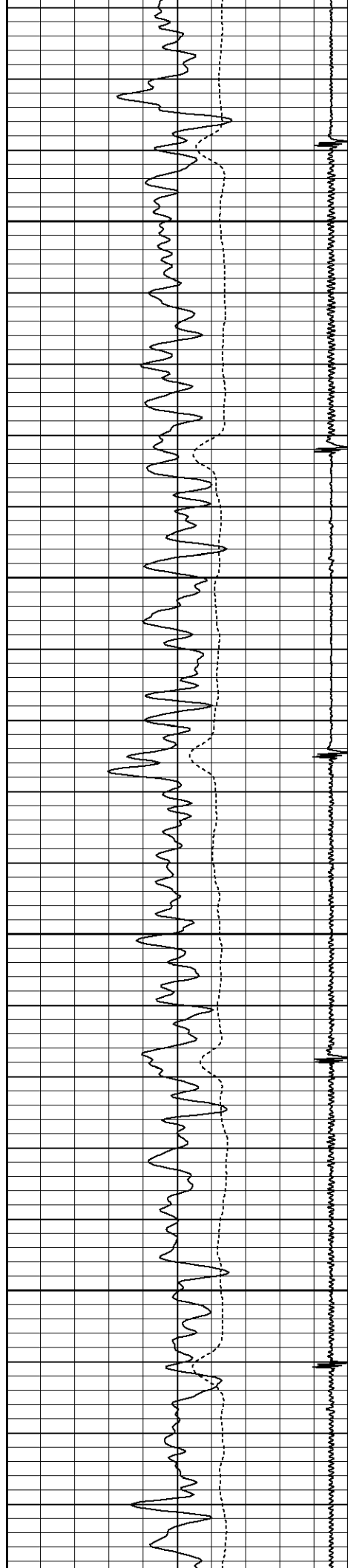
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Database File: cblmarley c01-24d.db
 Dataset Pathname: pass2
 Presentation Format: noble en
 Dataset Creation: Thu Jan 26 10:23:16 2012 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240



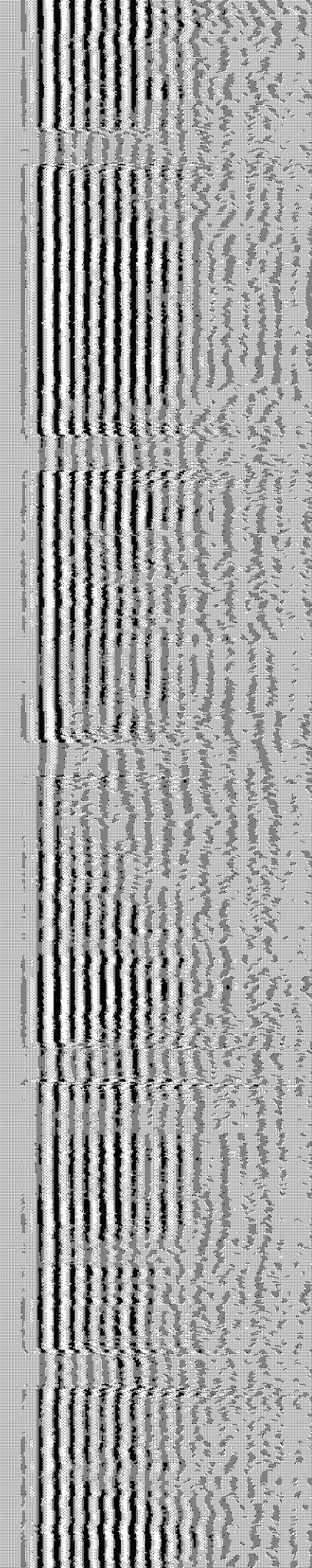
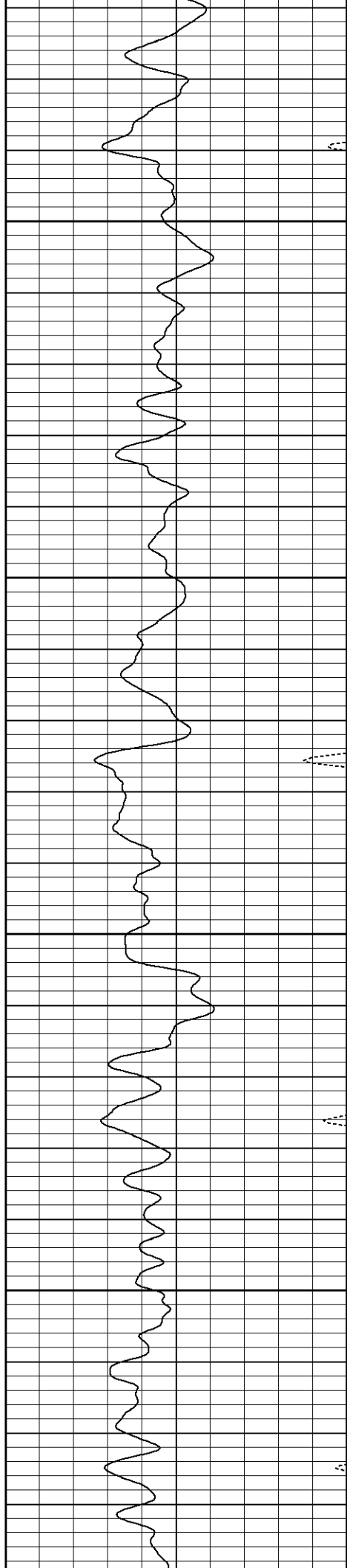


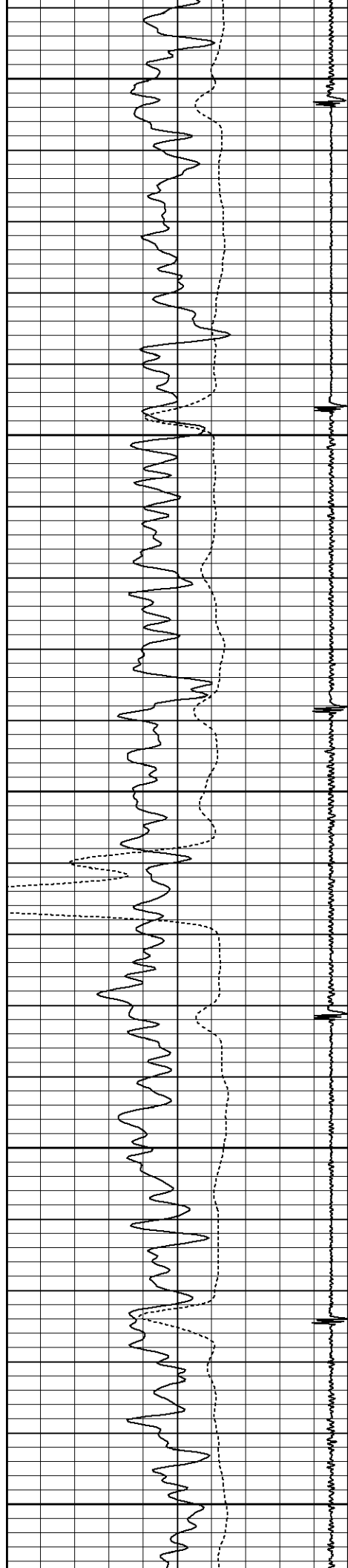
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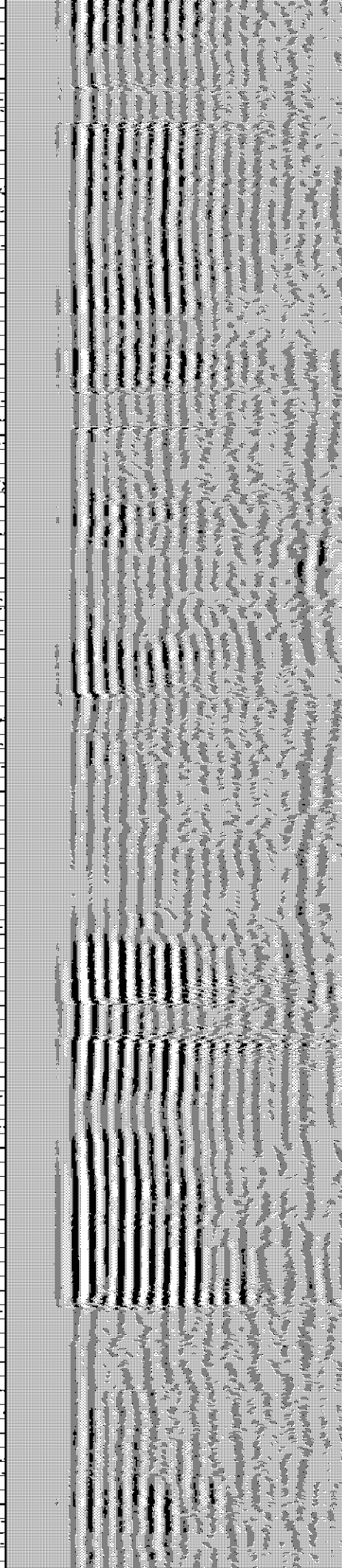
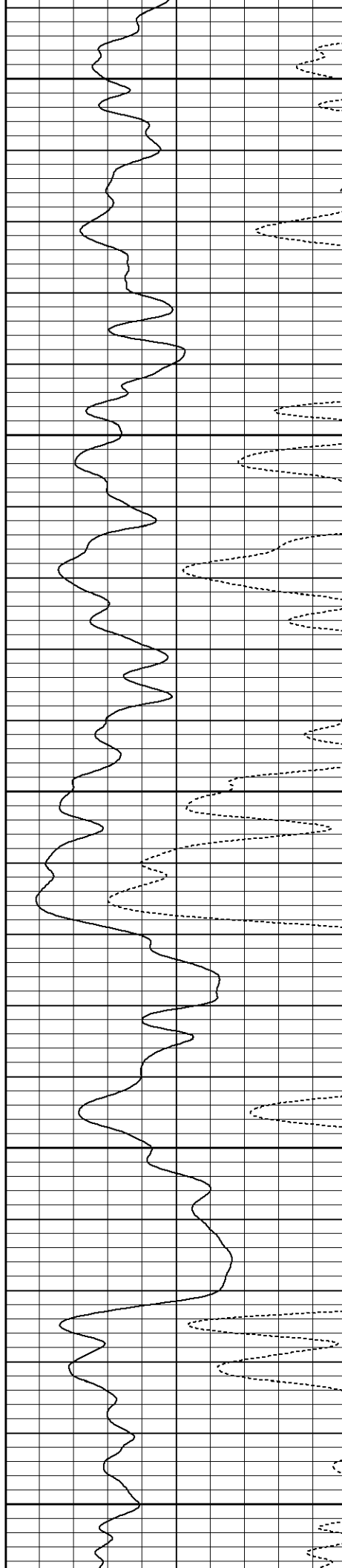
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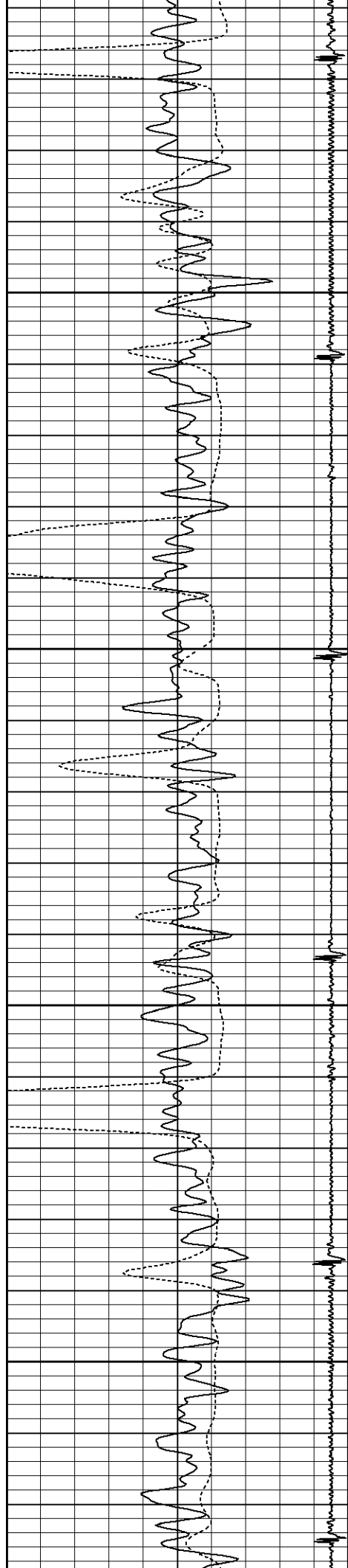
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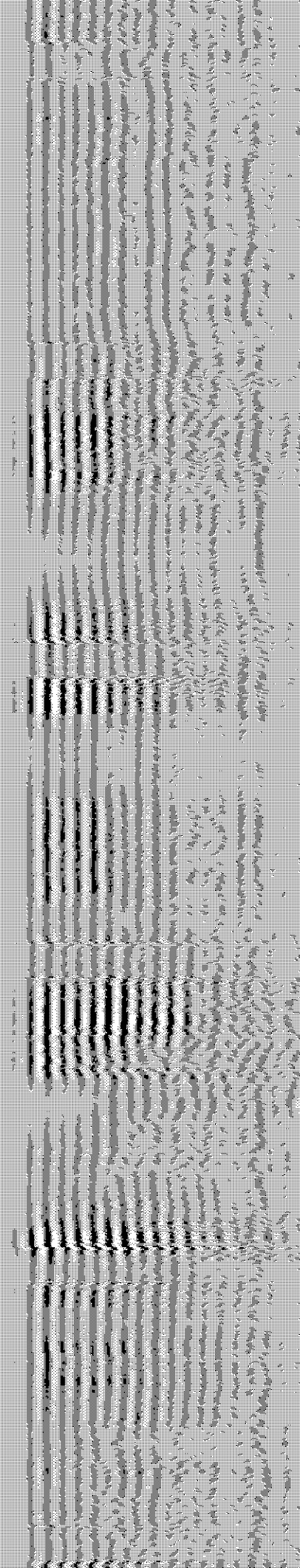
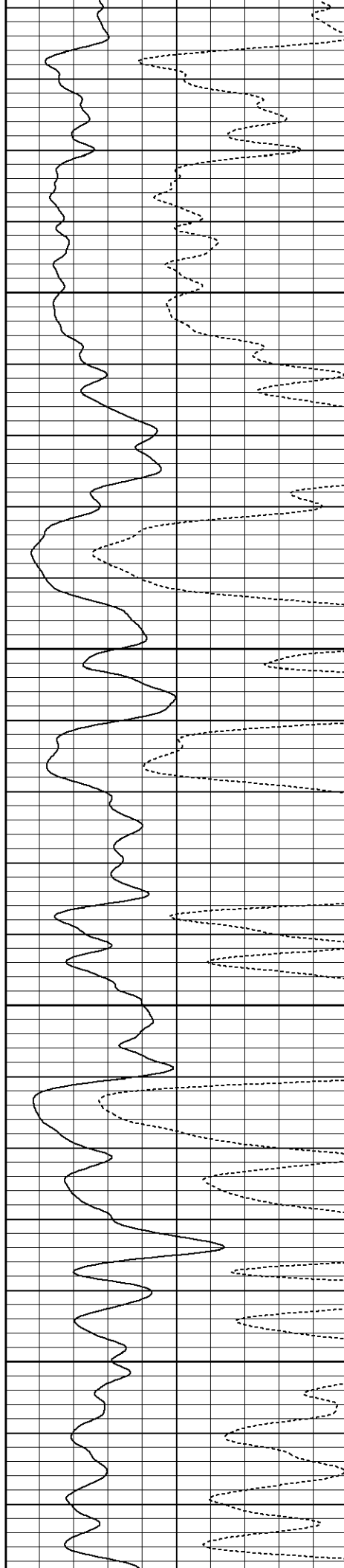


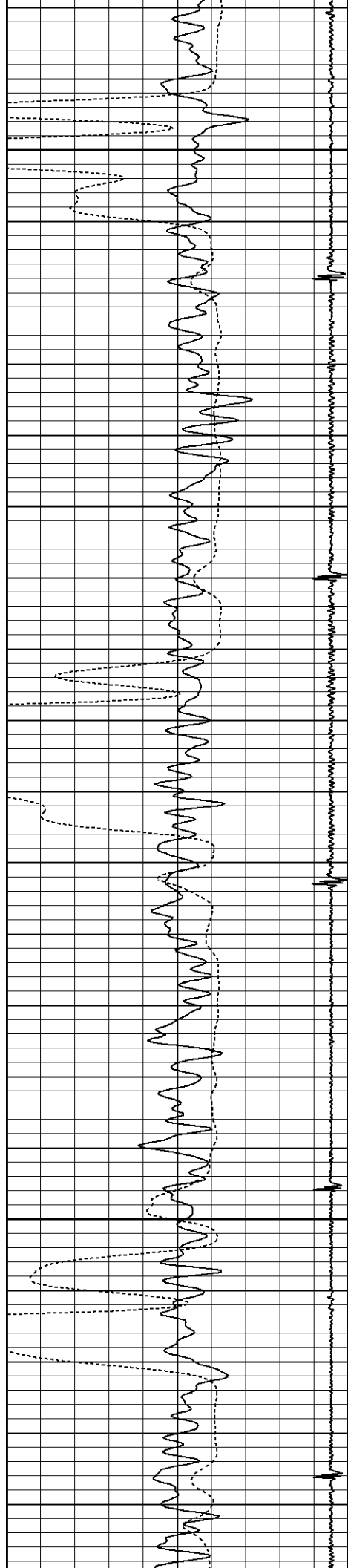
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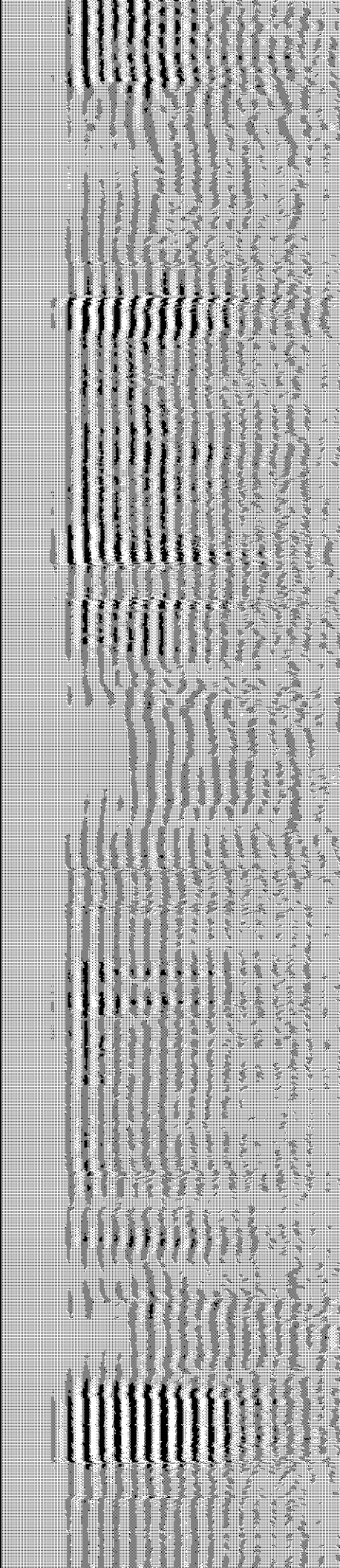
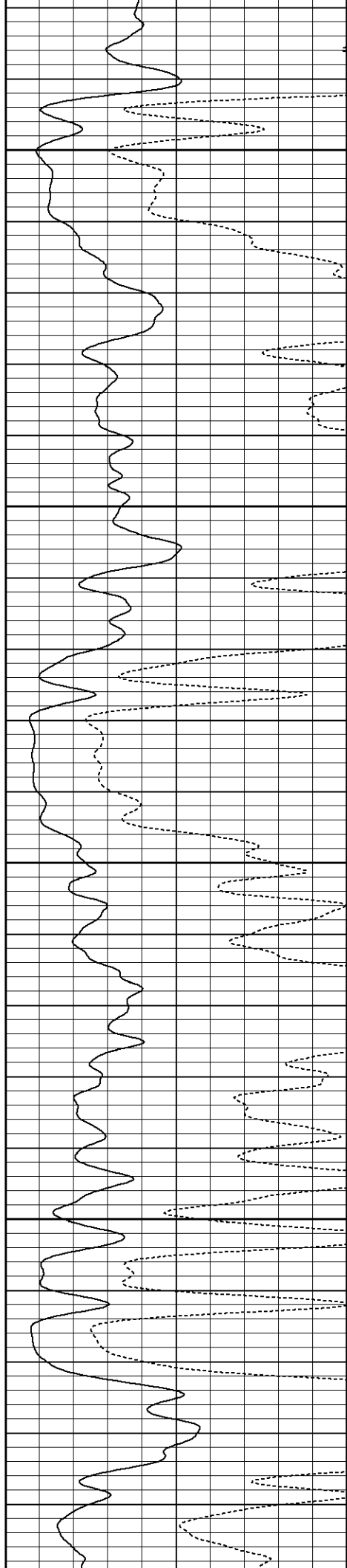


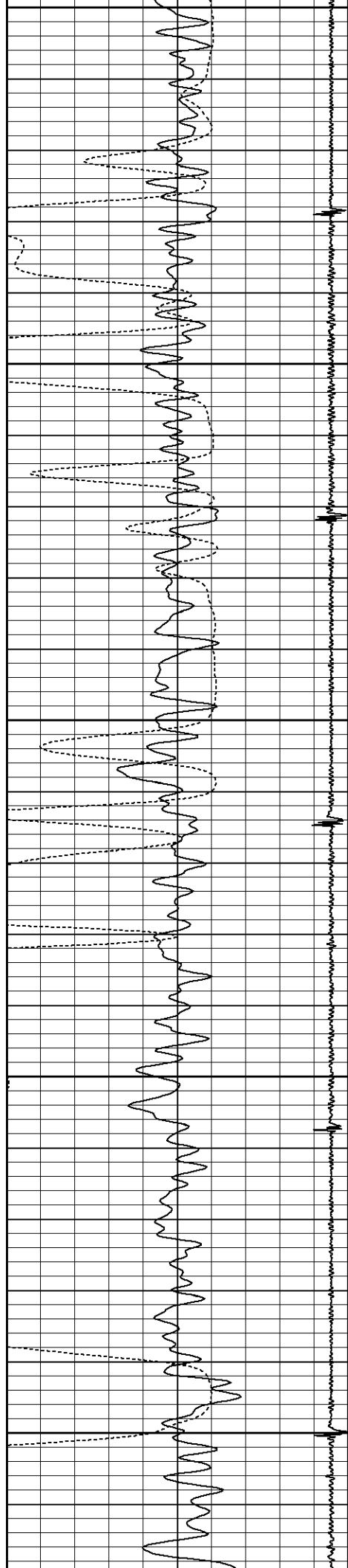
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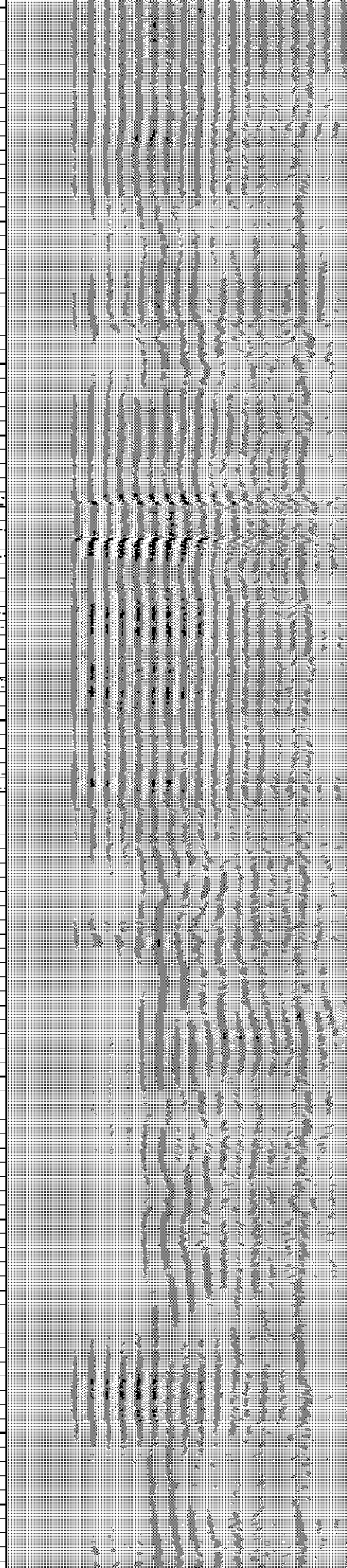
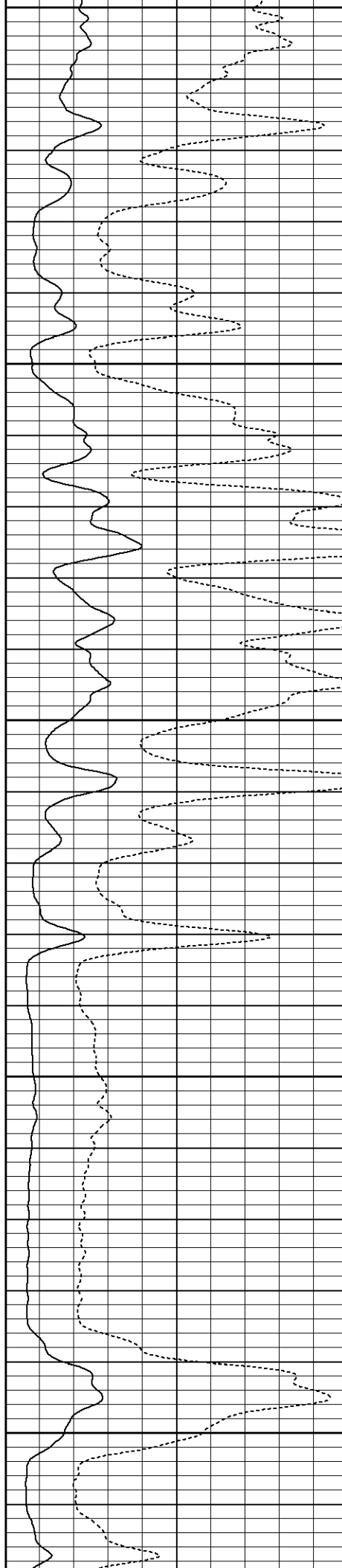
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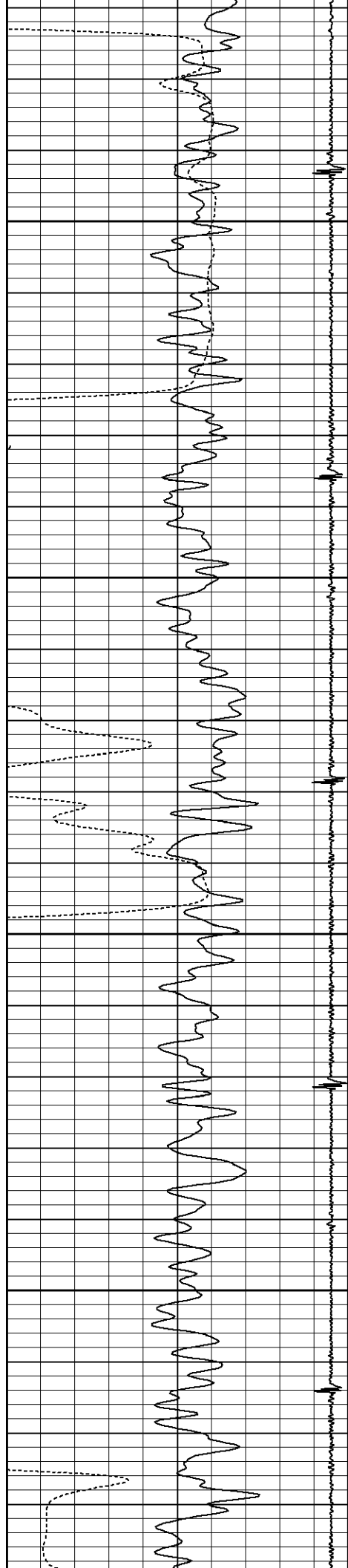
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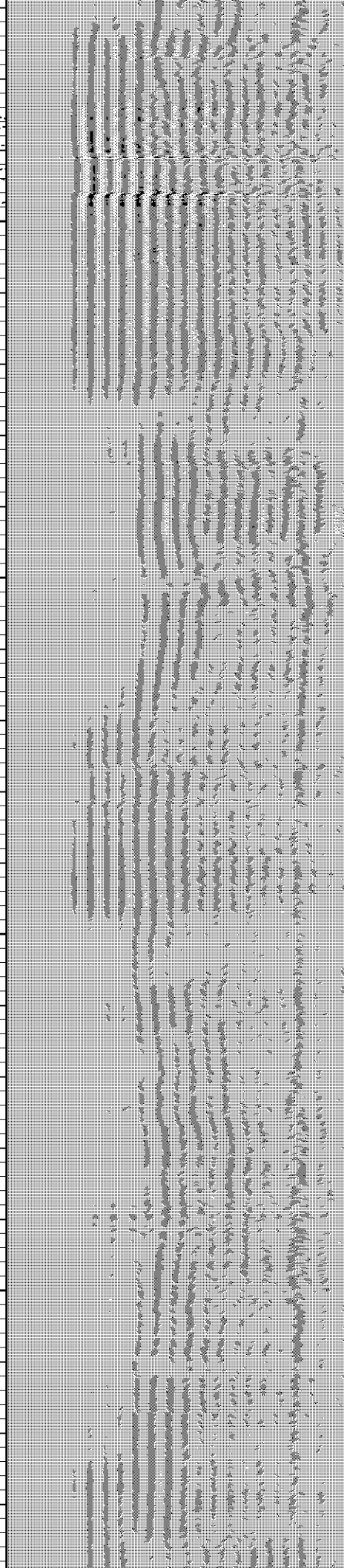
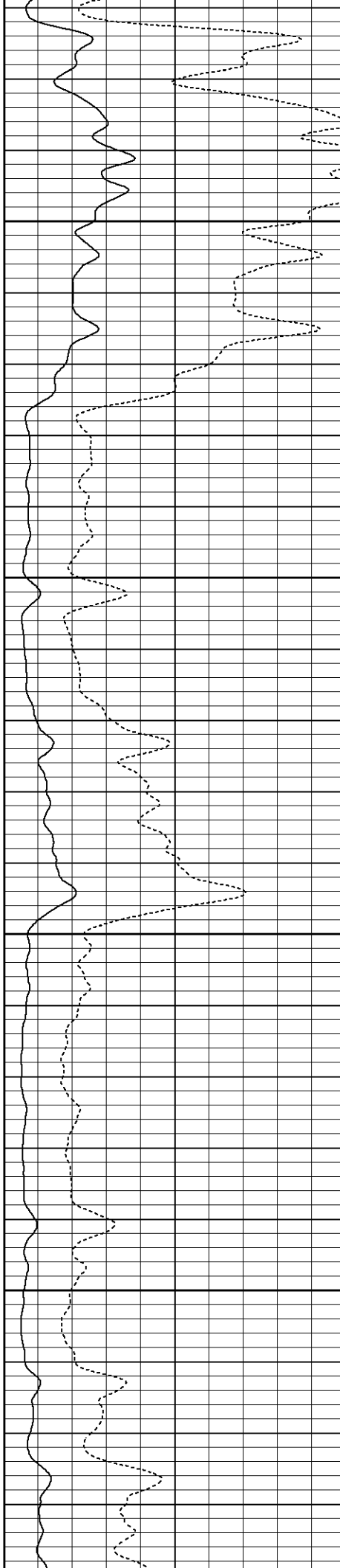


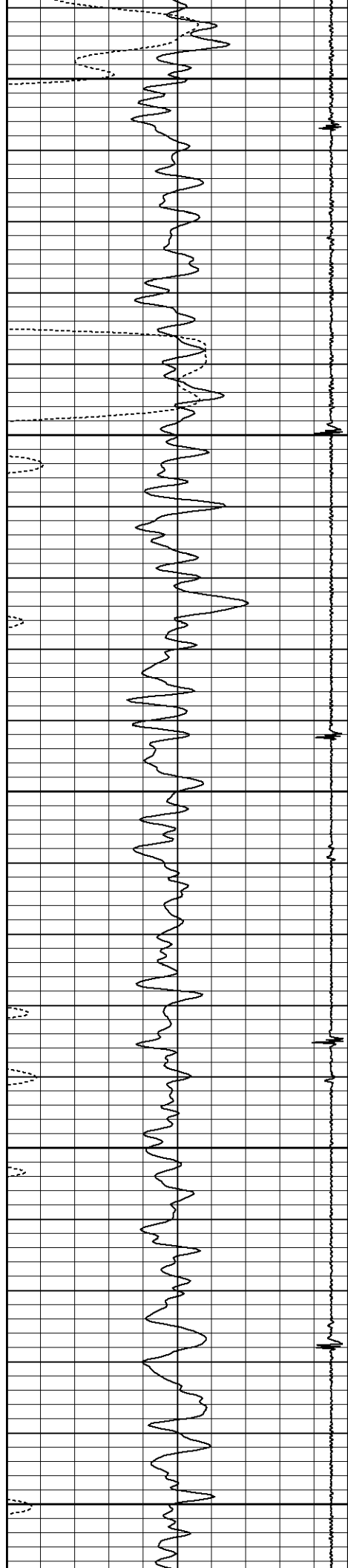
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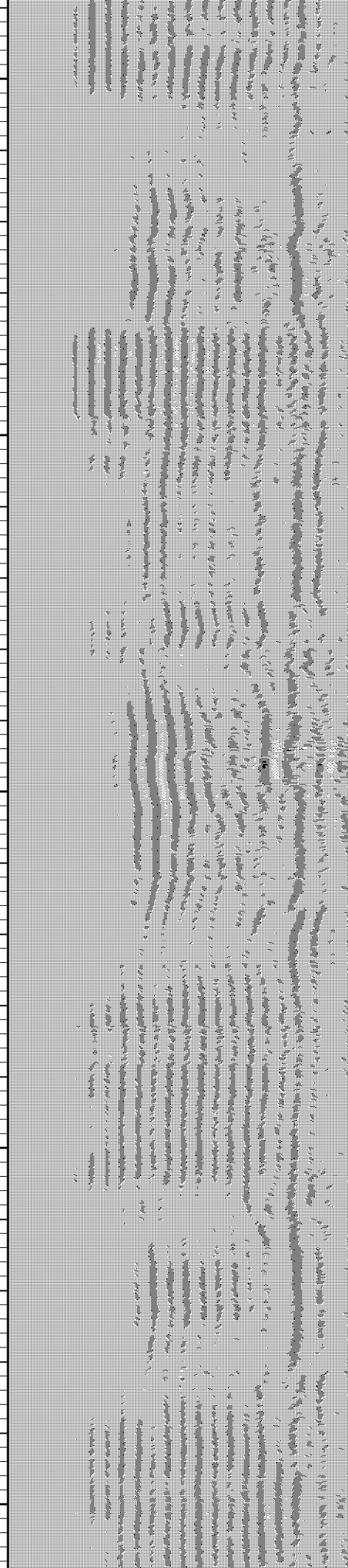
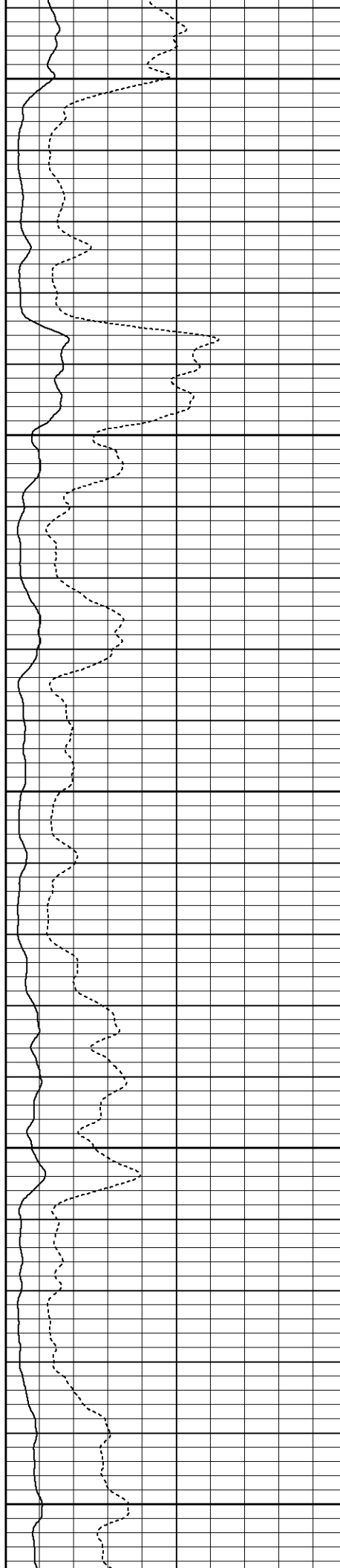
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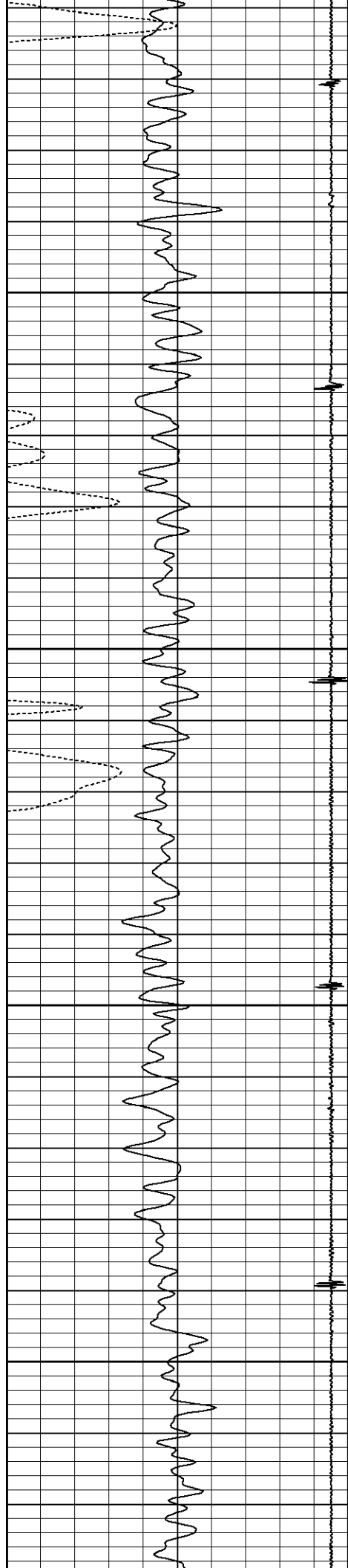
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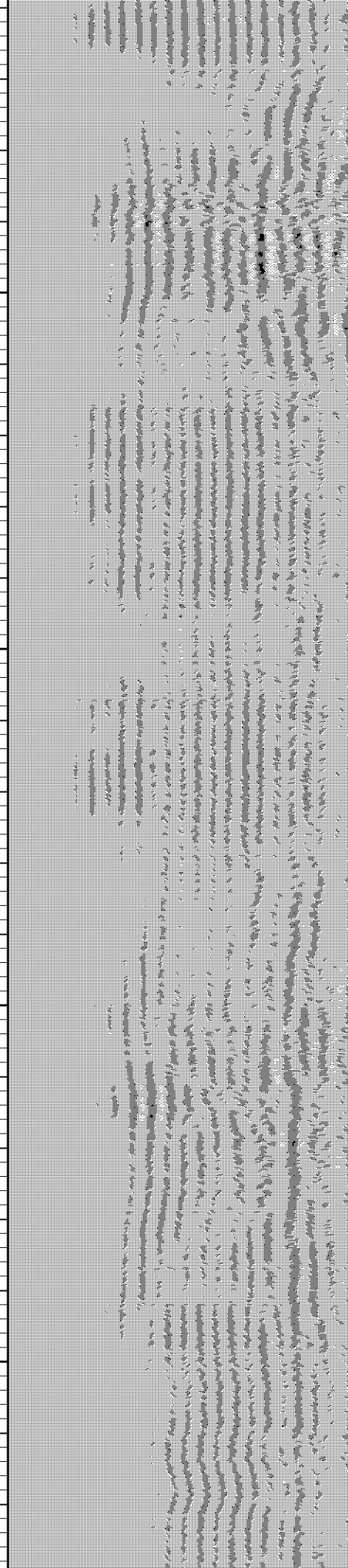
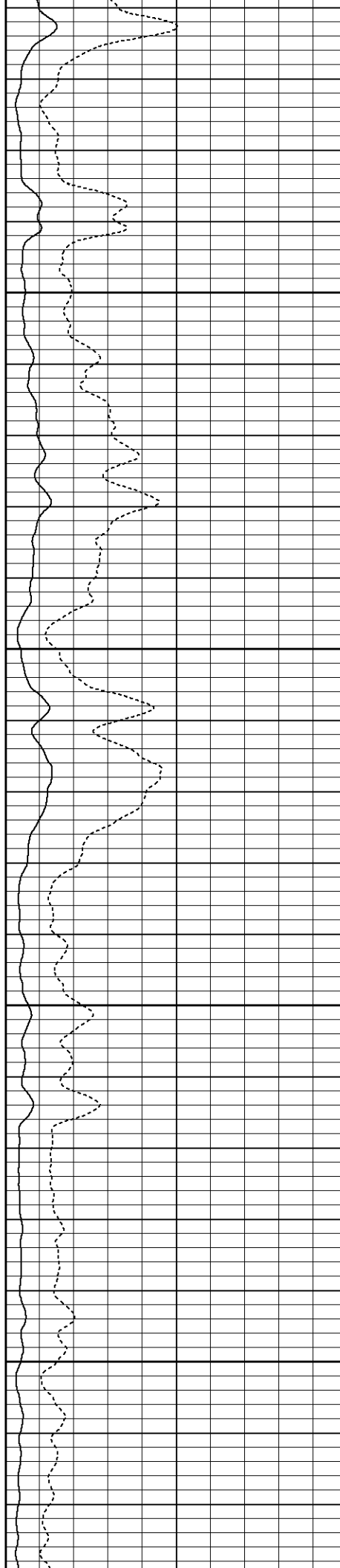


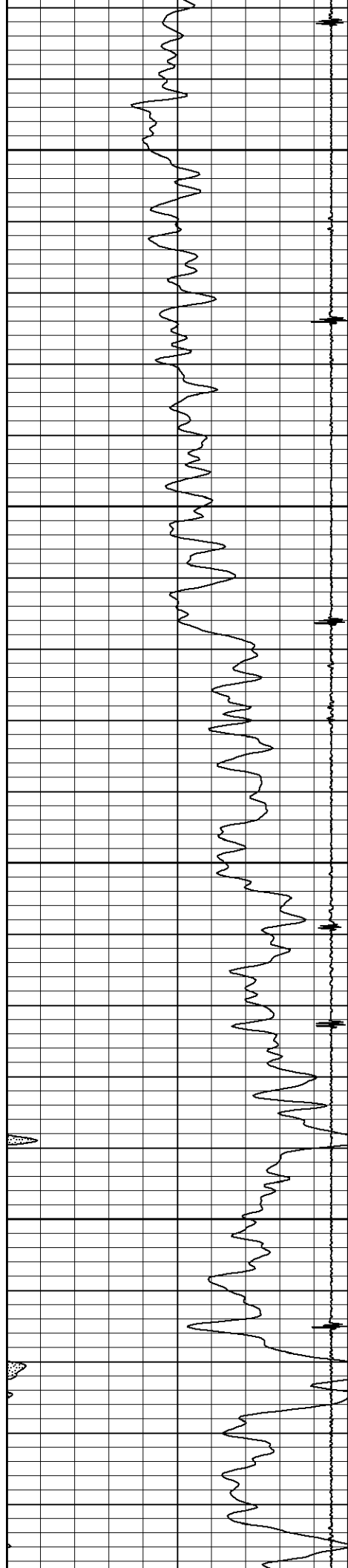
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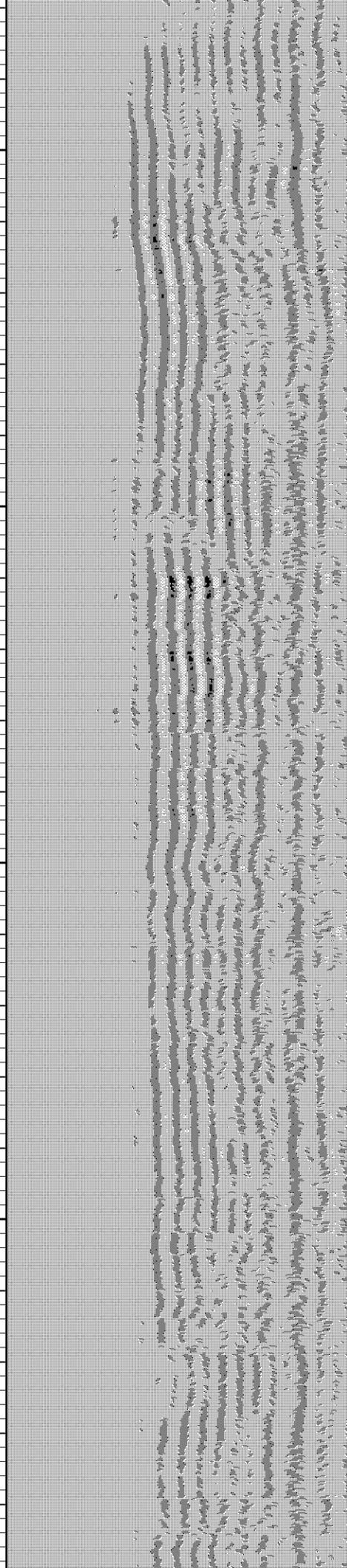
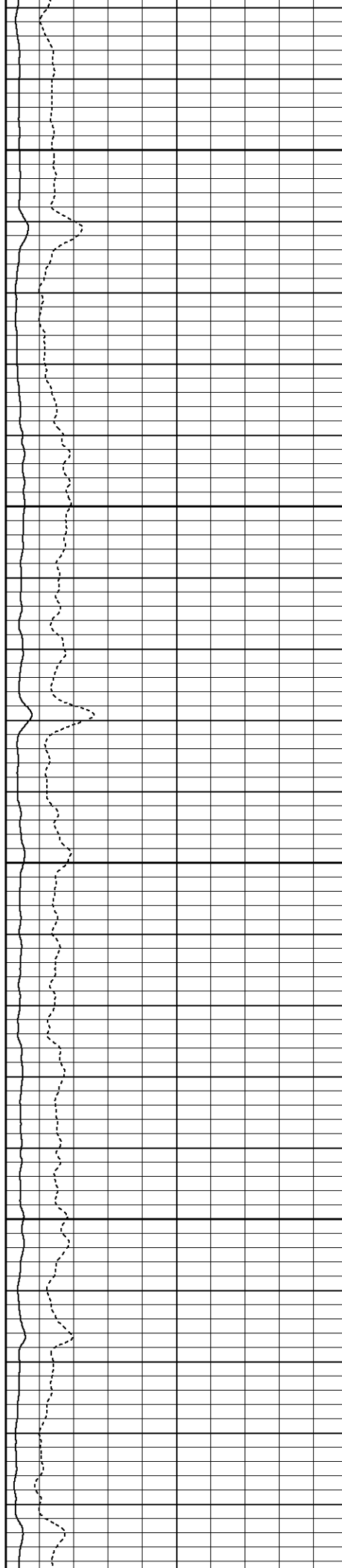
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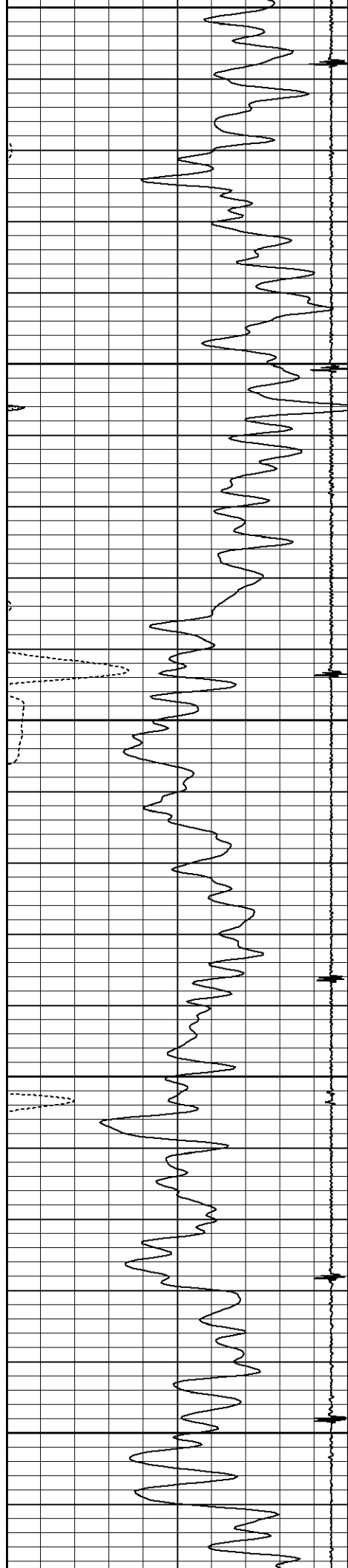
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6800

Flag Joint

6850





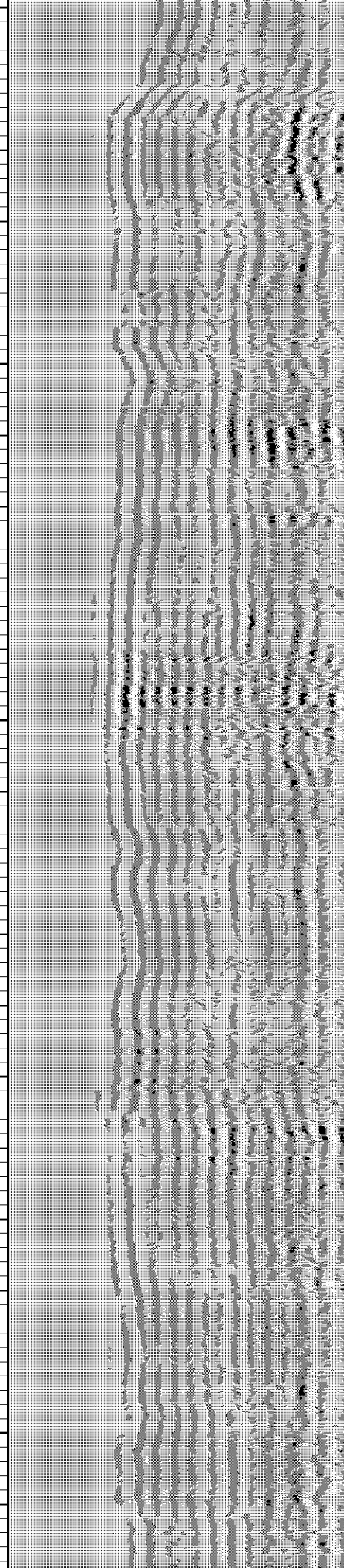
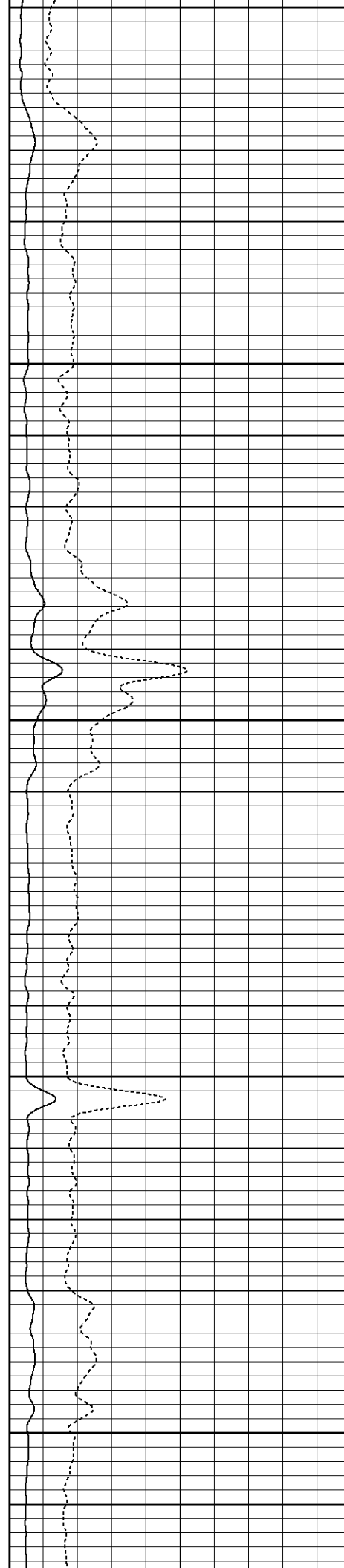
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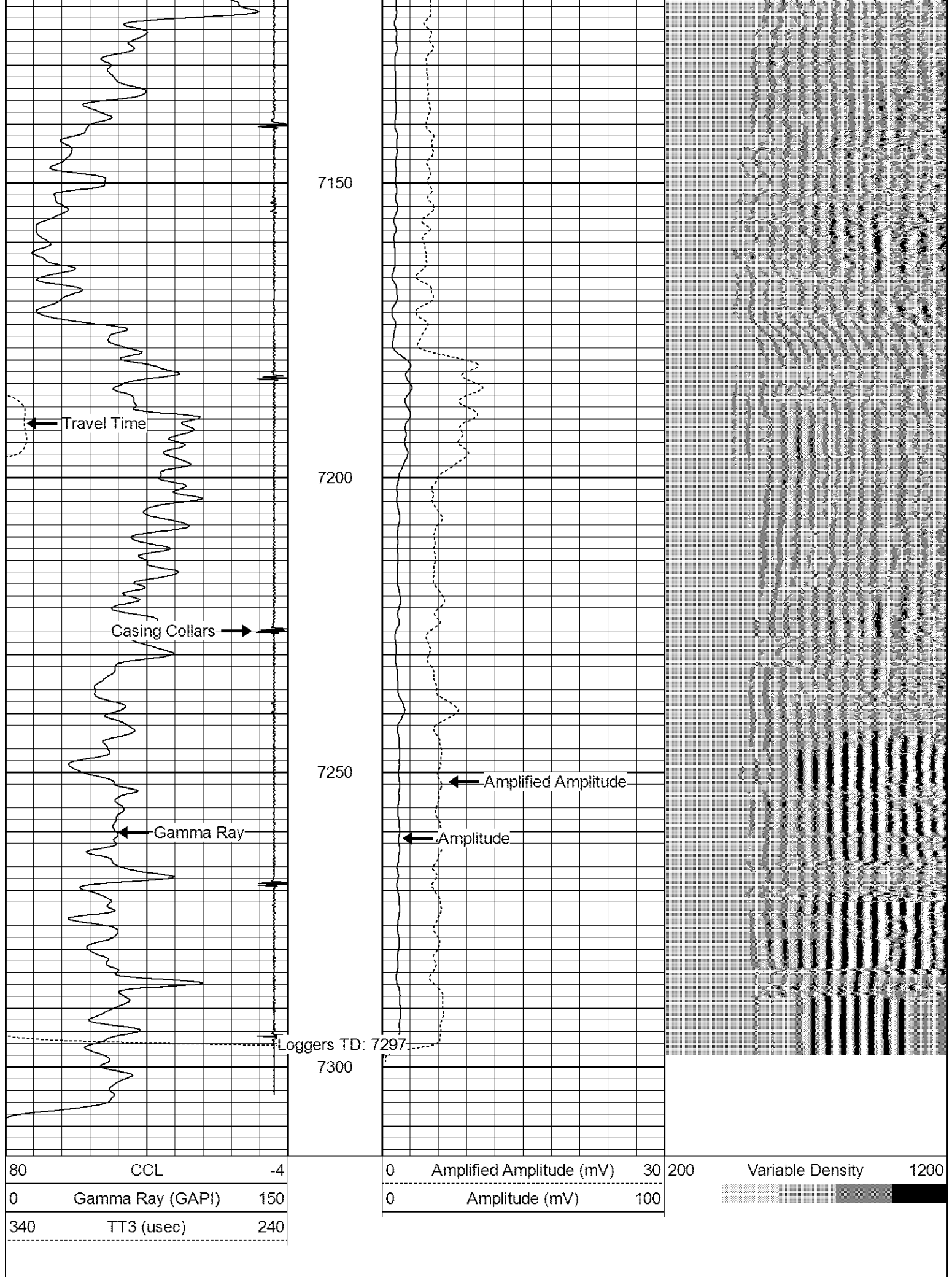
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7000

7050

7100





Calibration Report

Database File: cblmarley c01-24d.db
 Dataset Pathname: pass3
 Dataset Creation: Thu Jan 26 10:44:07 2012 by Log SCH 111116

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION

Tue Jan 24 11:05:24 2012

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.5800			GAPI/cps

PRIMARY VERIFICATION

Background	0.0			cps
Calibrator	0.0			cps
Difference			0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0			cps
Calibrator	0.0			cps
Difference			0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0			cps
Calibrator	0.0			cps
Difference			0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 110802
 Tool Model: Probe275Digital
 Performed: Thu Jan 26 09:00:11 2012

Depth: 714.267 ft
 Casing Diameter: 4.5 in

3' Spacing 5' Spacing

Signal Zero:	0.9	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0155273	0.0216797	V
Reading in Free Pipe:	2.49836	2.35986	V

Gain:	32.3405	34.7261
Offset:	0.397838	-0.752852