

CEMENT BOND LOG GAMMA RAY CCL V D L

Company Noble Energy INC.
Well NOVACEK C28-27D
Field Wattenberg
County Weld State Colorado

Location: API #: 05123345620000

Other Services

SHL: 566' FSL & 830' FEL
BHL: 75' FNL & 1320' FEL
SEC 21 TWP 4N RGE 64W

Elevation

Permanent Datum GL Elevation 4710
Log Measured From KB 14'
Drilling Measured From KB

K.B. 4724
D.F. 4723
G.L. 4710

Date March 2, 2012

Run Number	One	
Depth Driller	7185 est.	
Depth Logger	7127	
Bottom Logged Interval	7126	
Top Log Interval	580	
Casing Size	4 1/2"	
Type Fluid	Water	
Max. Recorded Temp.	220 deg F	
Estimated Cement Top	1920	
Time Well Ready	Crane	
Time Logger On Bottom	AM	
Unit Number	4367	4515
Tool Size / ID Number	2.75 Probe 101010	2.75 Probe 110802
Location	Platteville, CO	
Recorded By	K. Monaghan	
Witnessed By	J. Brnak	

Borehole Record Bit From To Size Weight Tubing Record From To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24 lb/ft J-55	Surface	904
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	7185
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

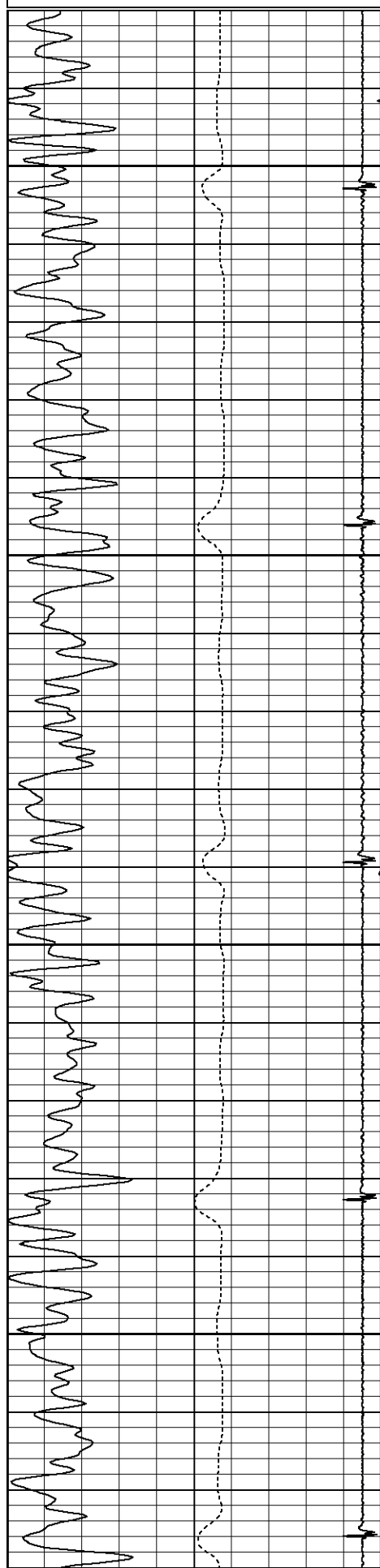
Than You For Choosing Superior Well Services!!!
API# 05-123-34562-0000
NO OPEN HOLE LOG TO CORRELATE WITH
Wireline Zero @ 14' KB
Directions: 42 & 55, W 1/10, N 1/10, W Into
(Southern Most Well of 2 Well Pad)

Database File: cblnovacek c28-27d.db
Dataset Pathname: pass3
Presentation Format: noble en
Dataset Creation: Fri Mar 02 10:24:03 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

Variable Density	1200
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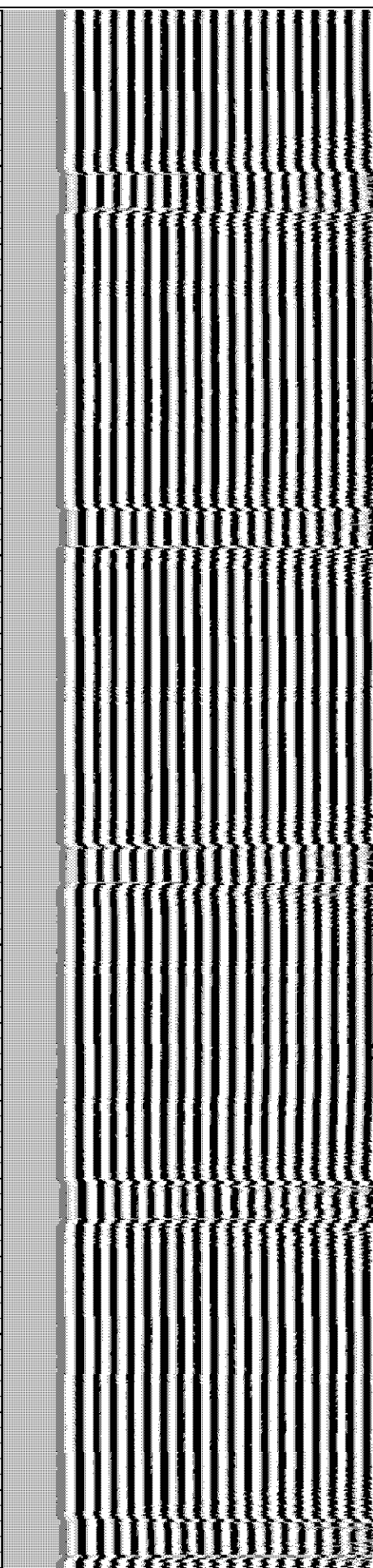
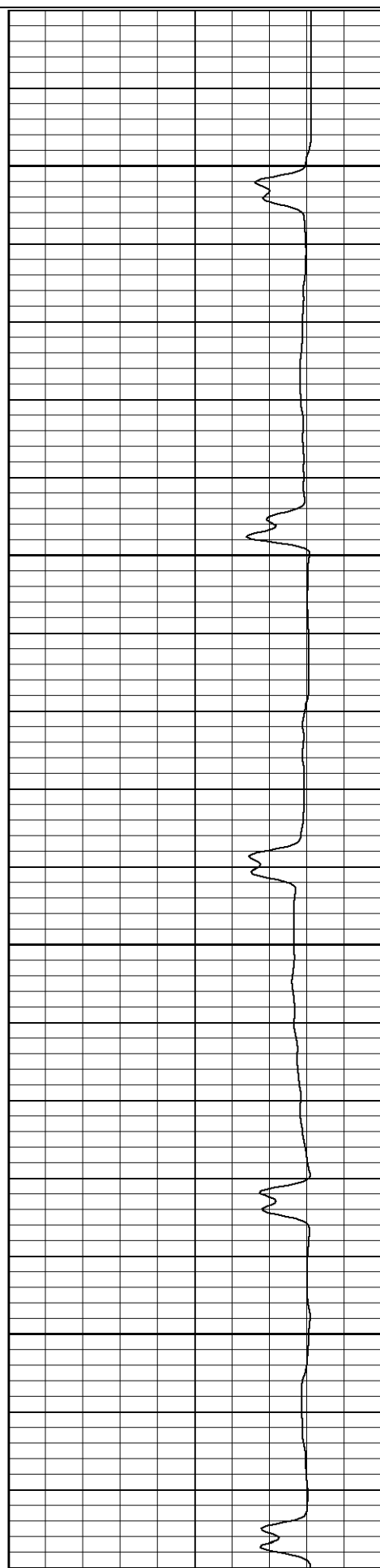


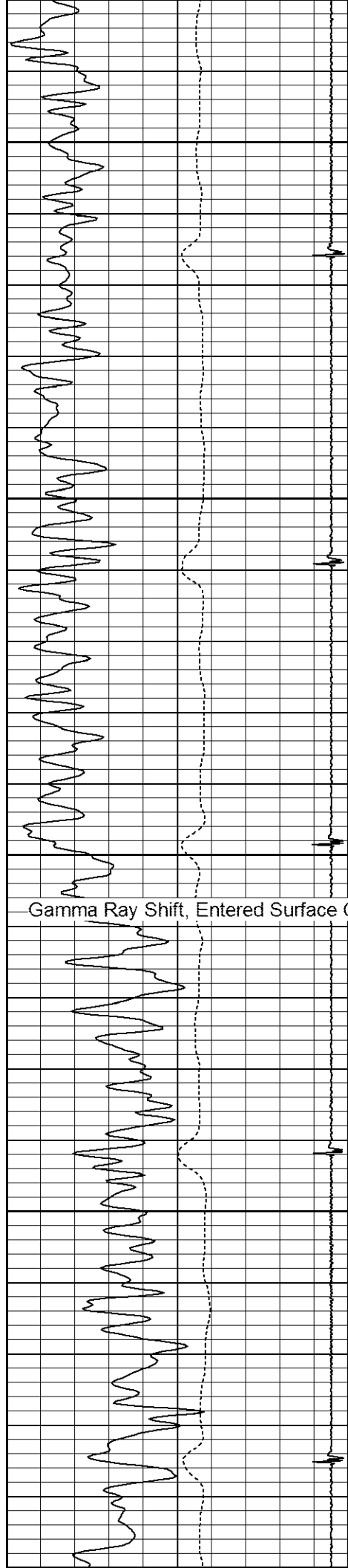
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650

700

750





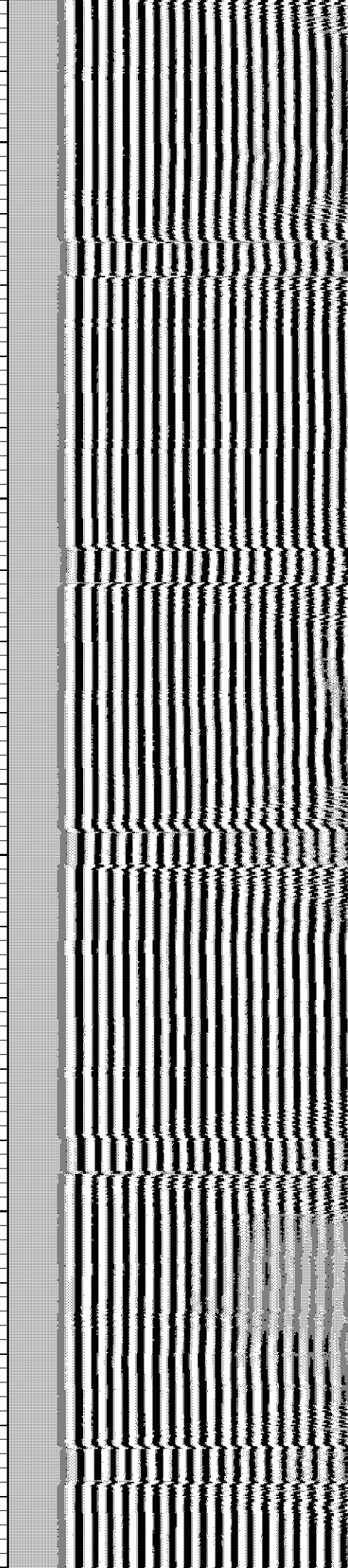
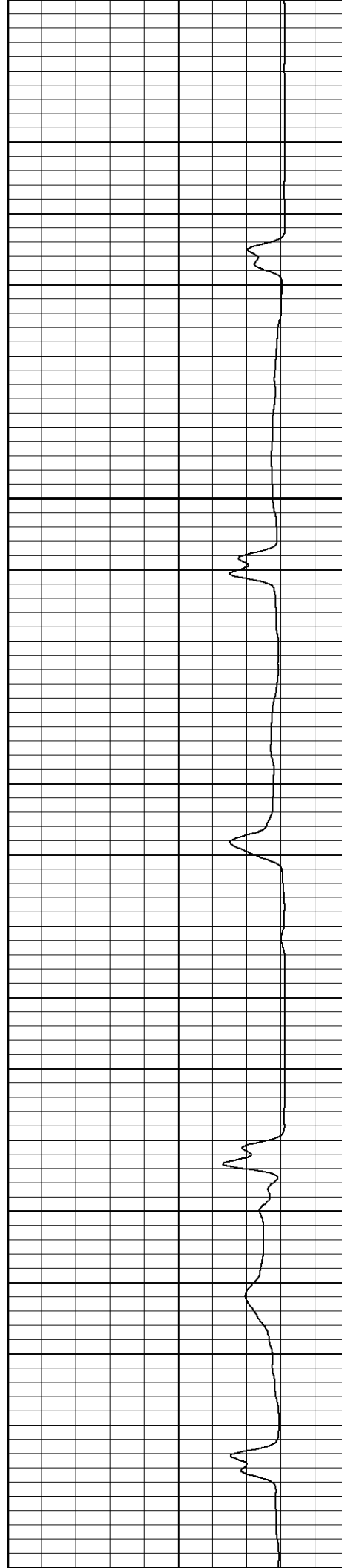
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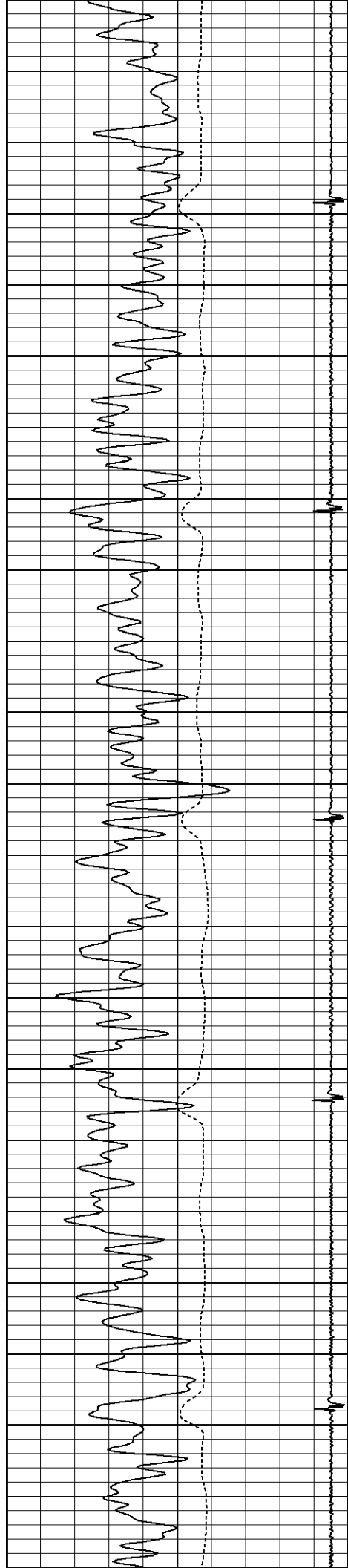
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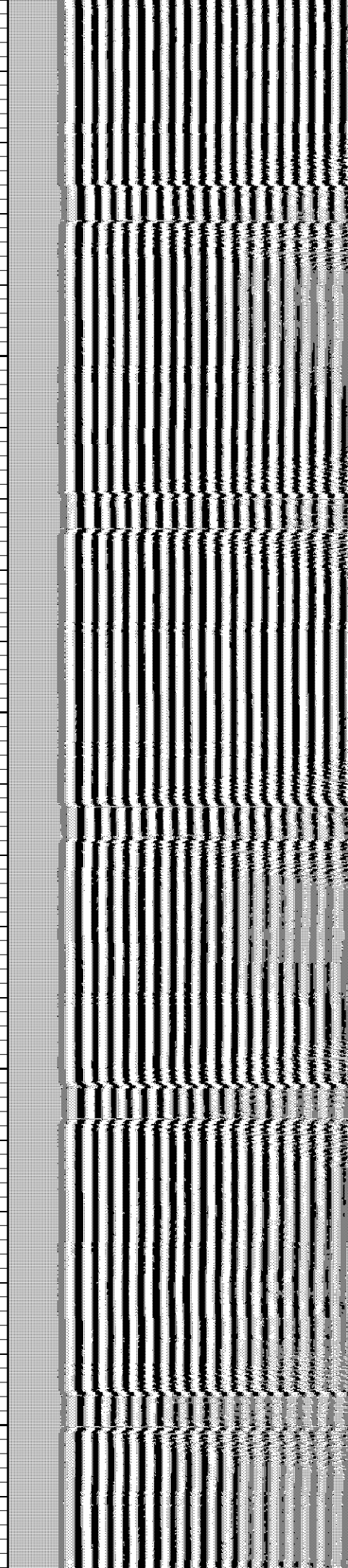
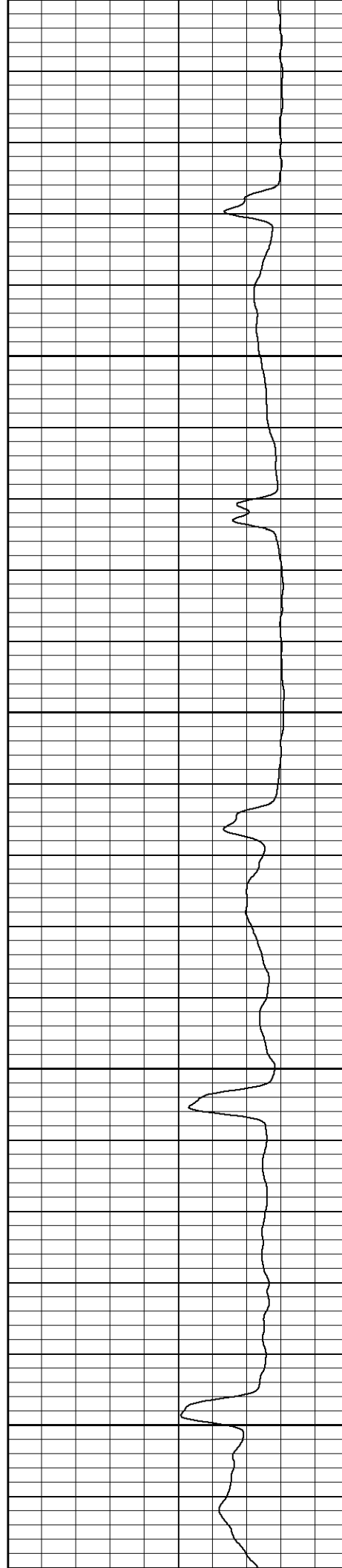
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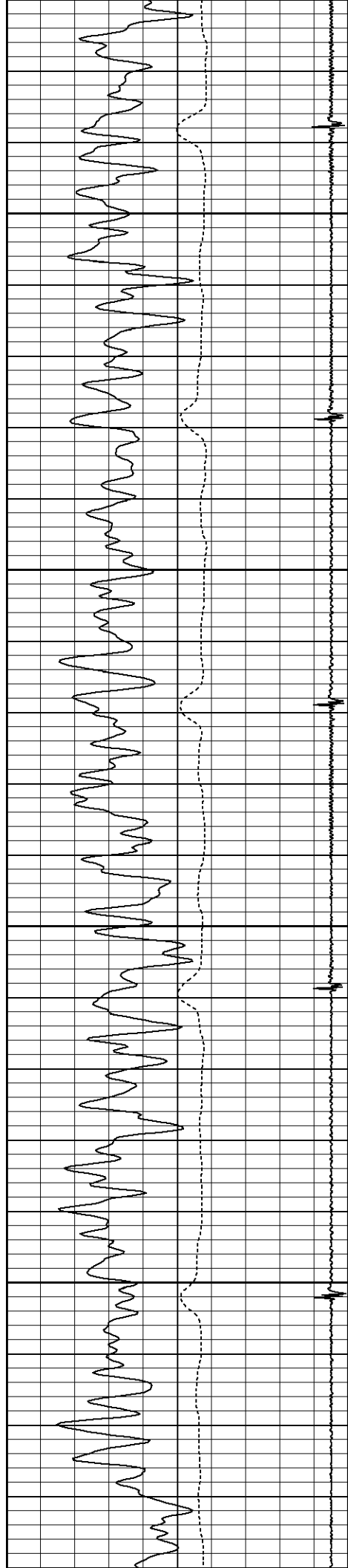
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1150

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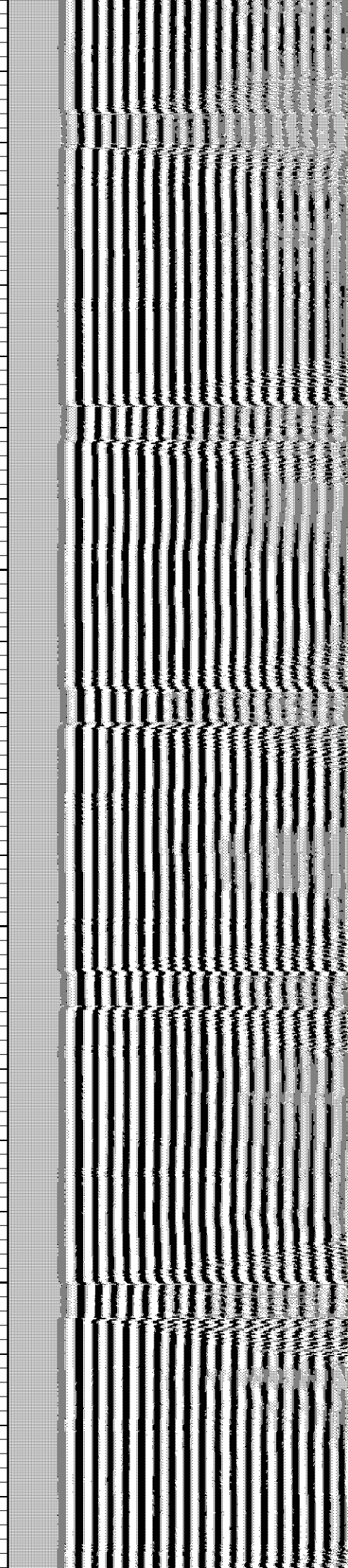
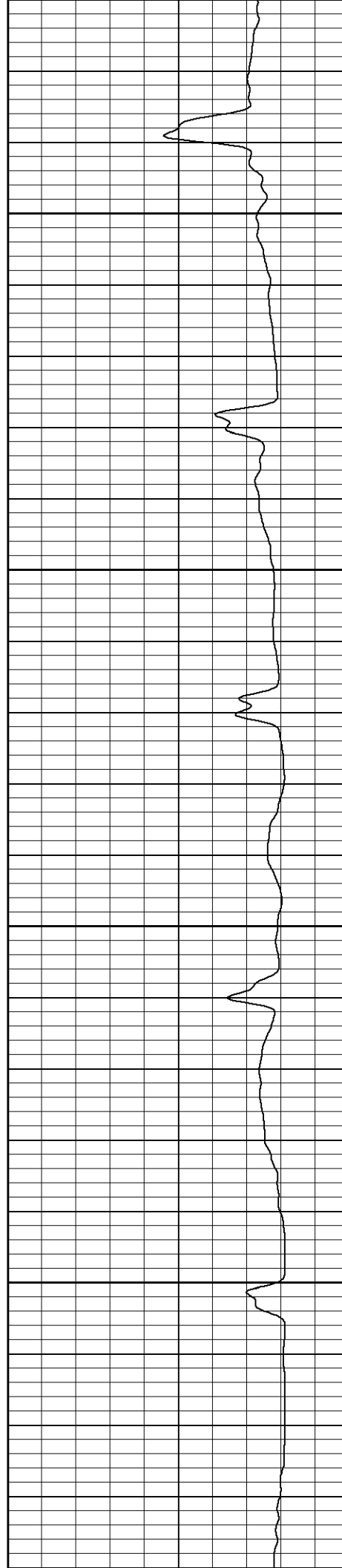


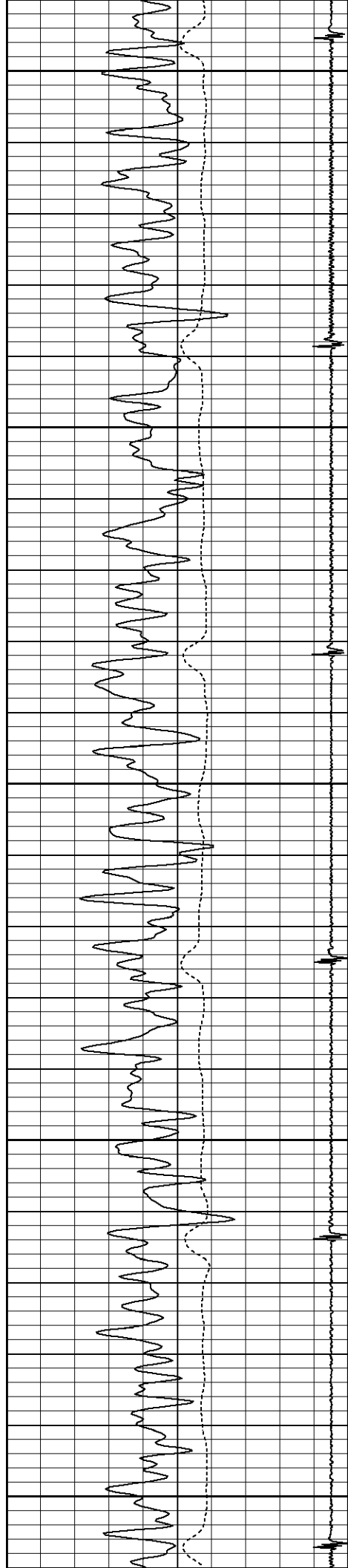
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1400





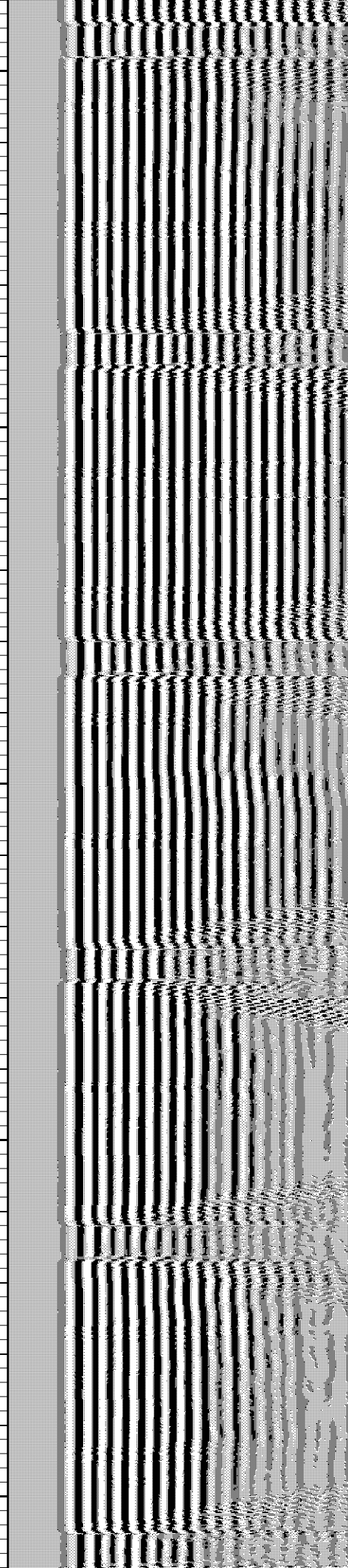
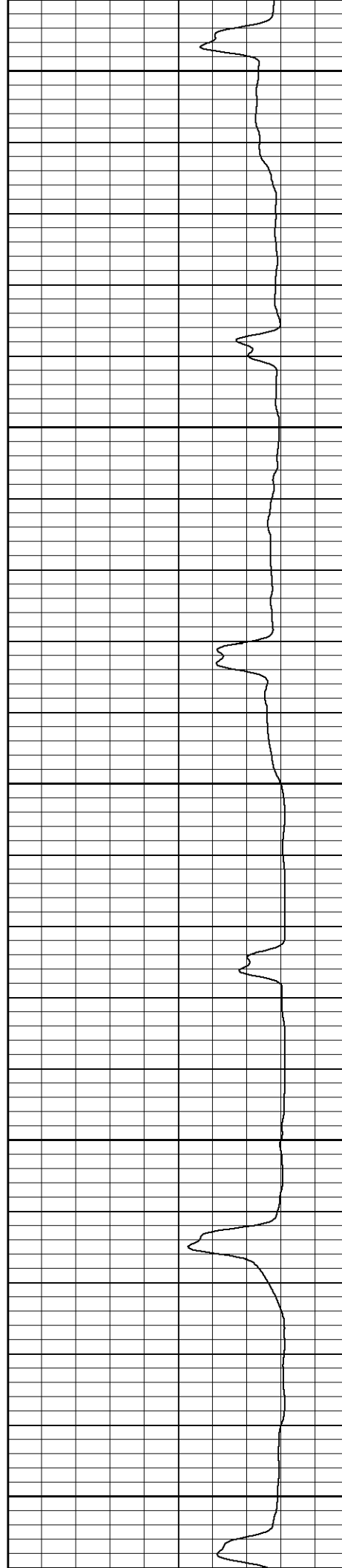
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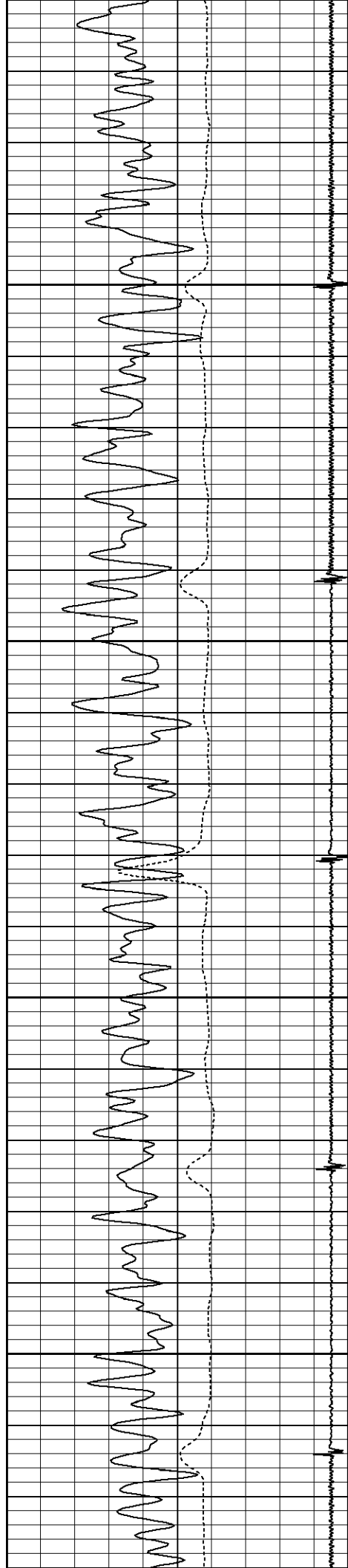
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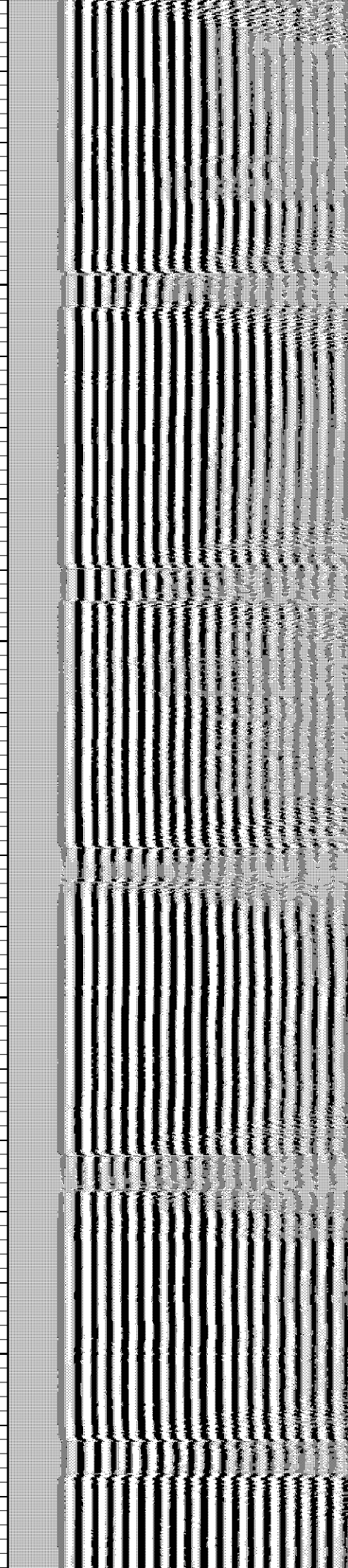
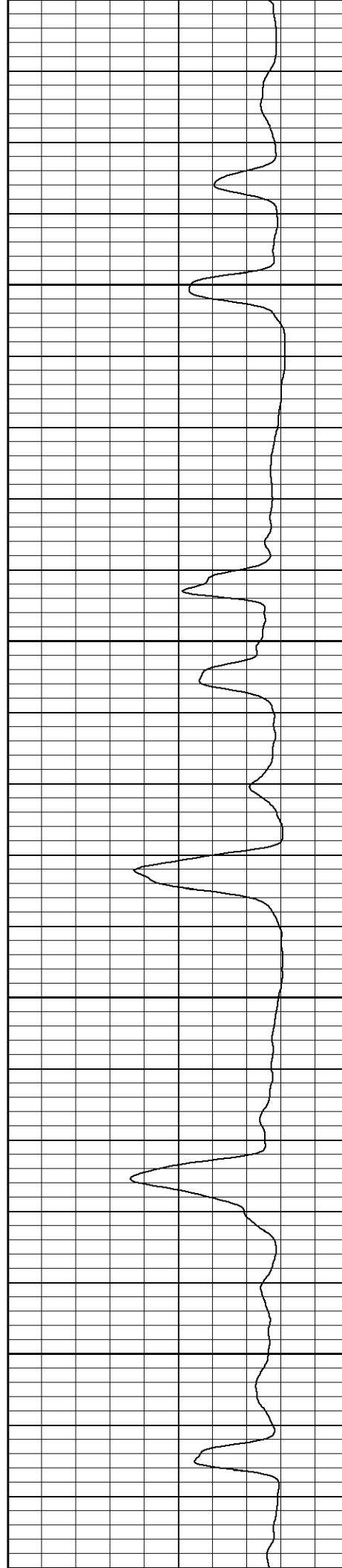


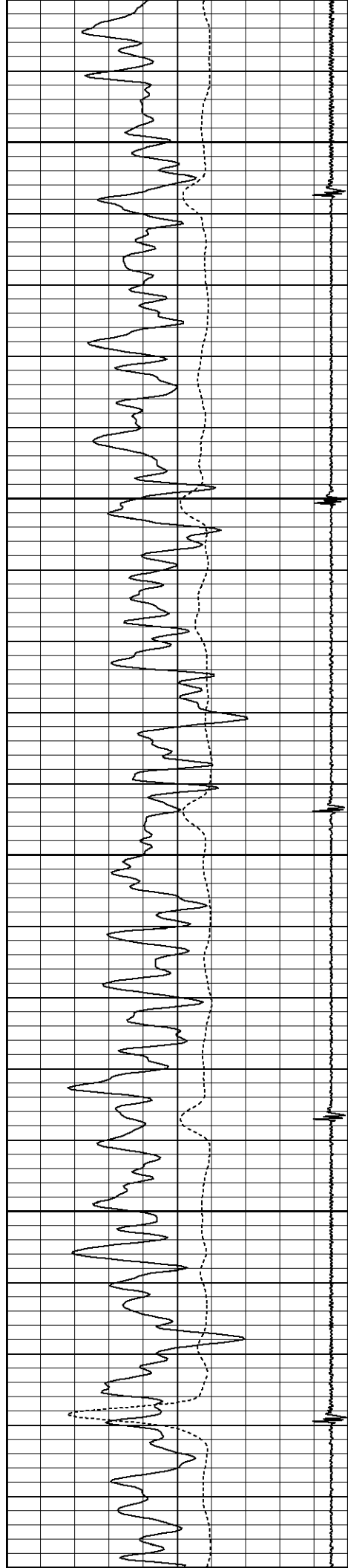
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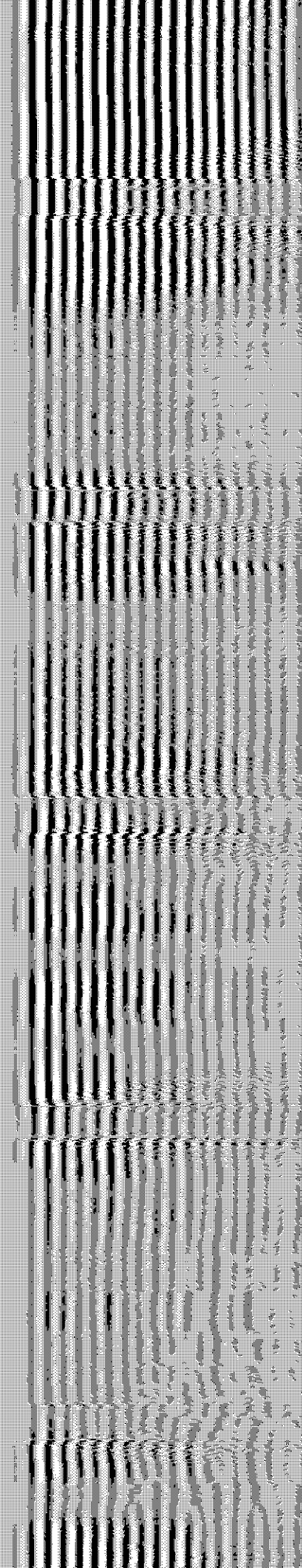
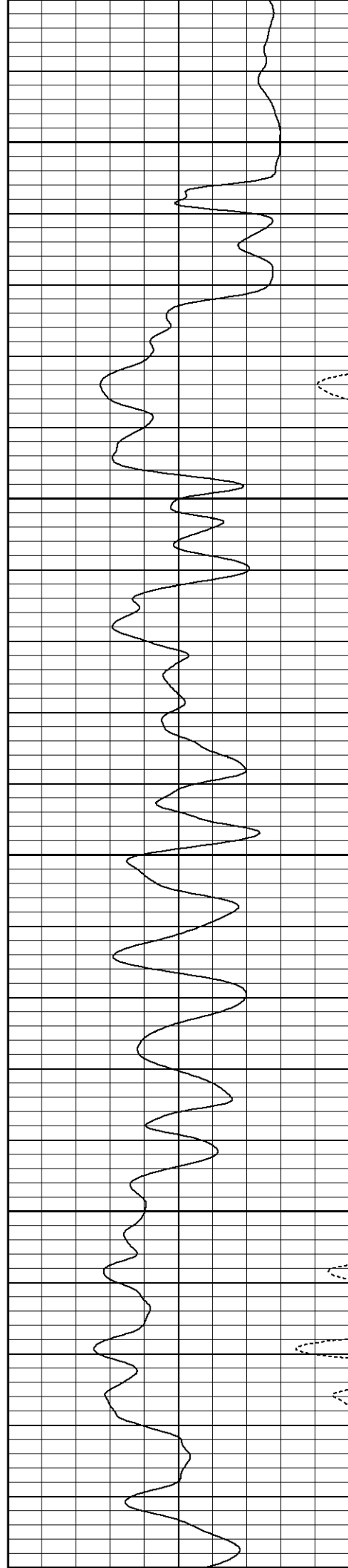
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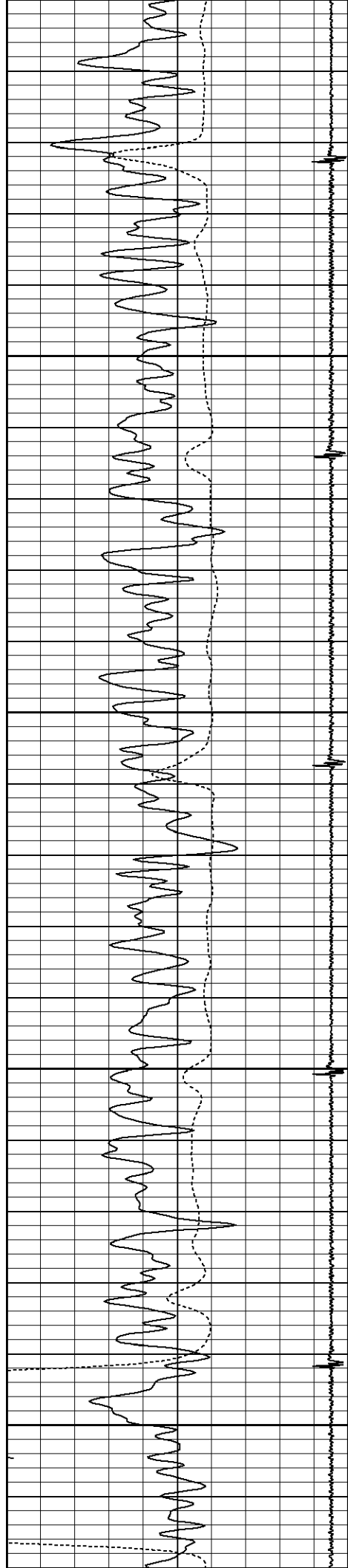
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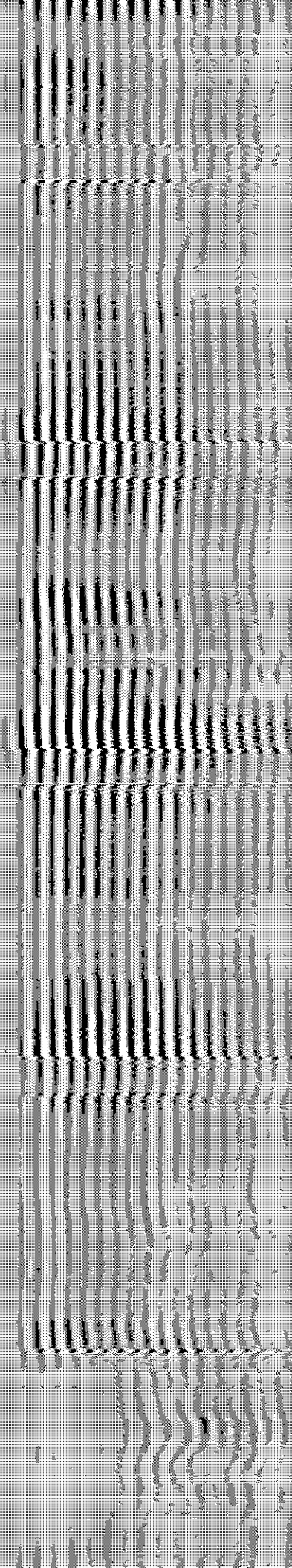
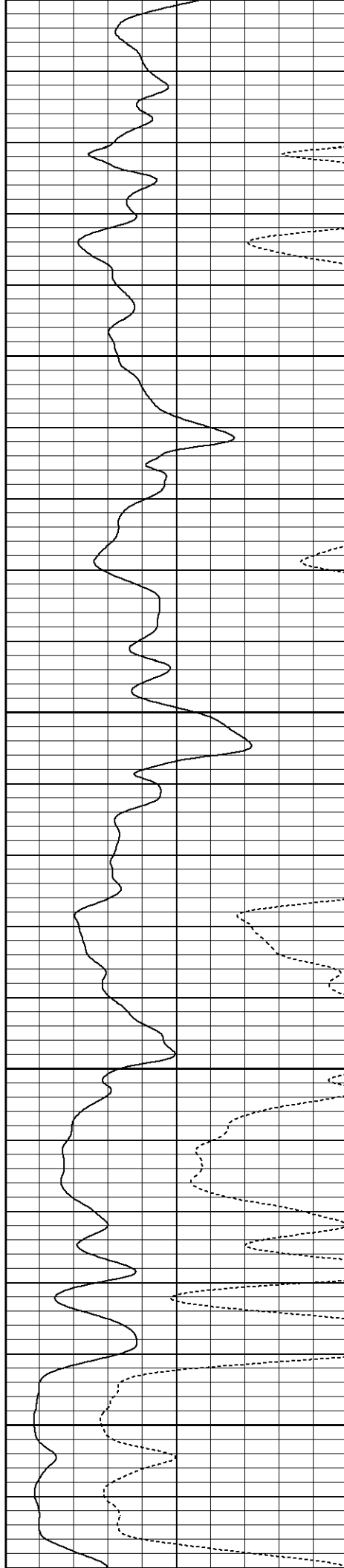
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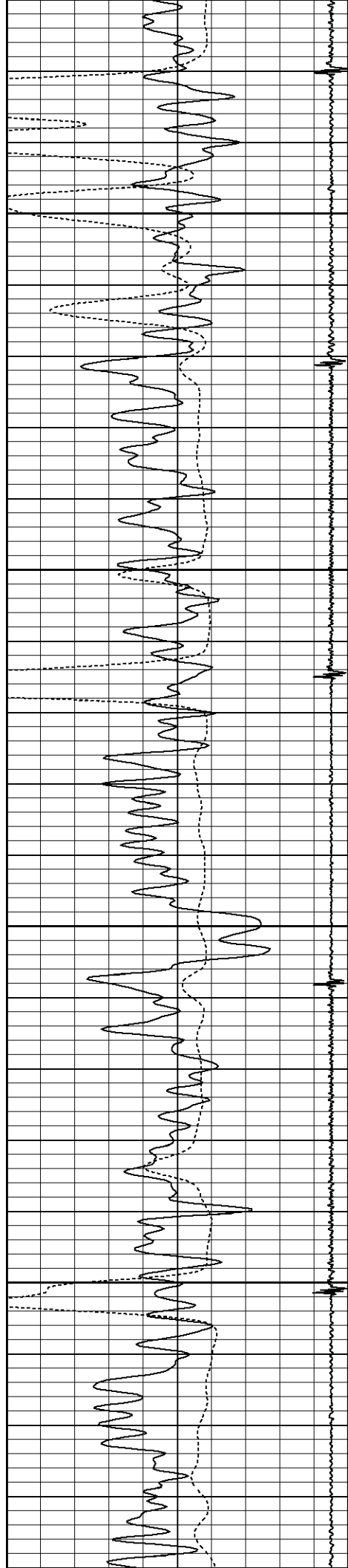
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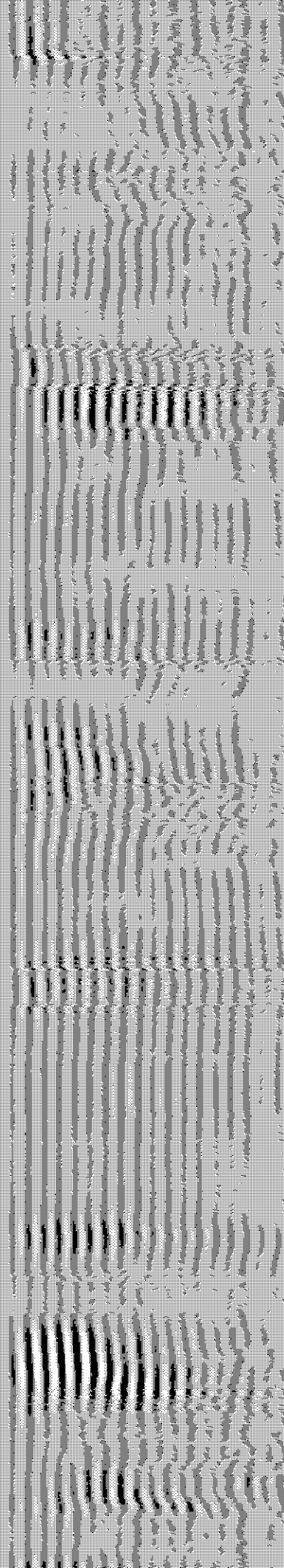
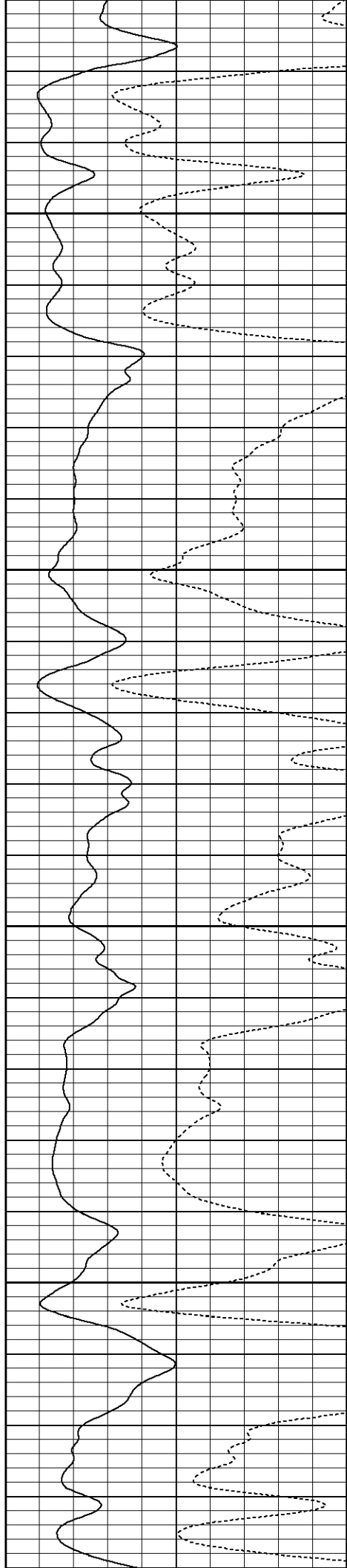


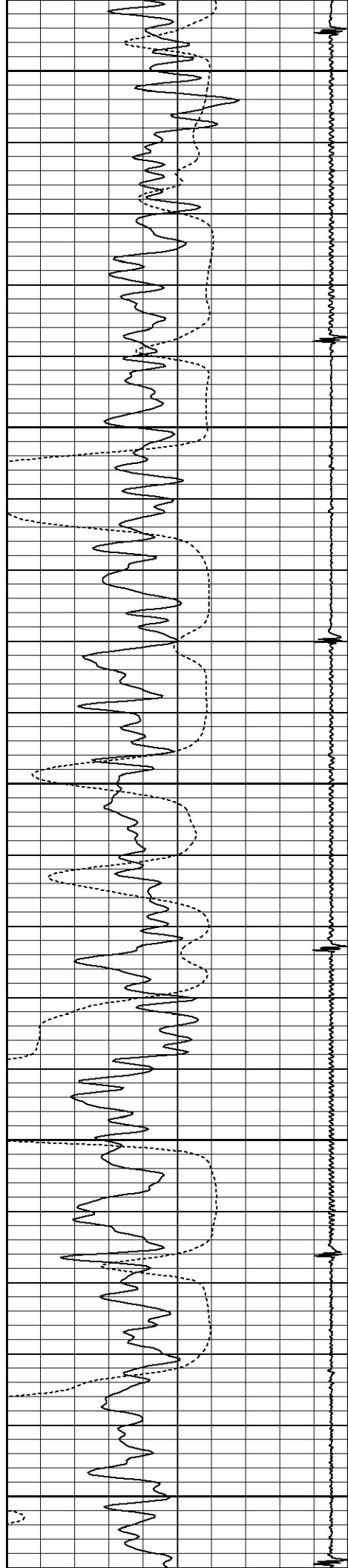
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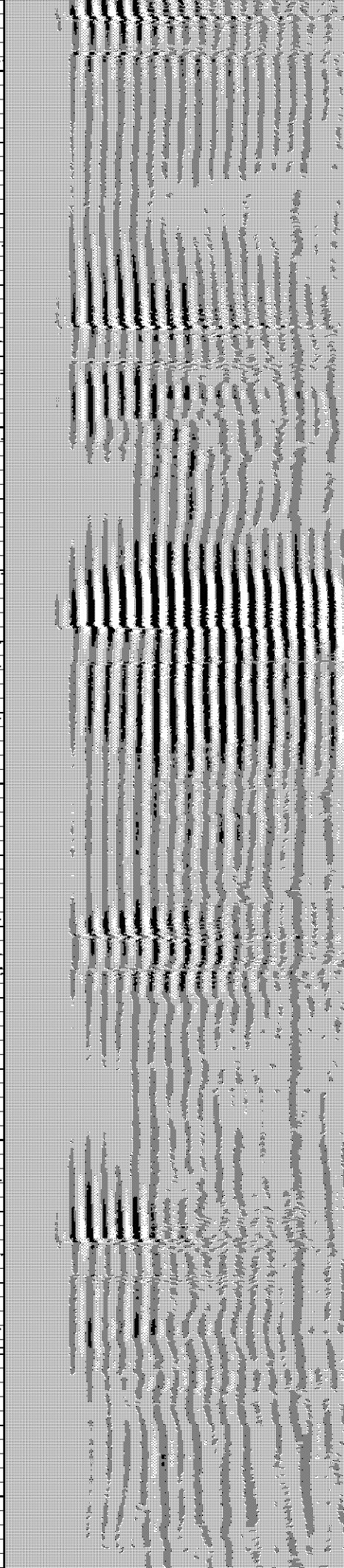
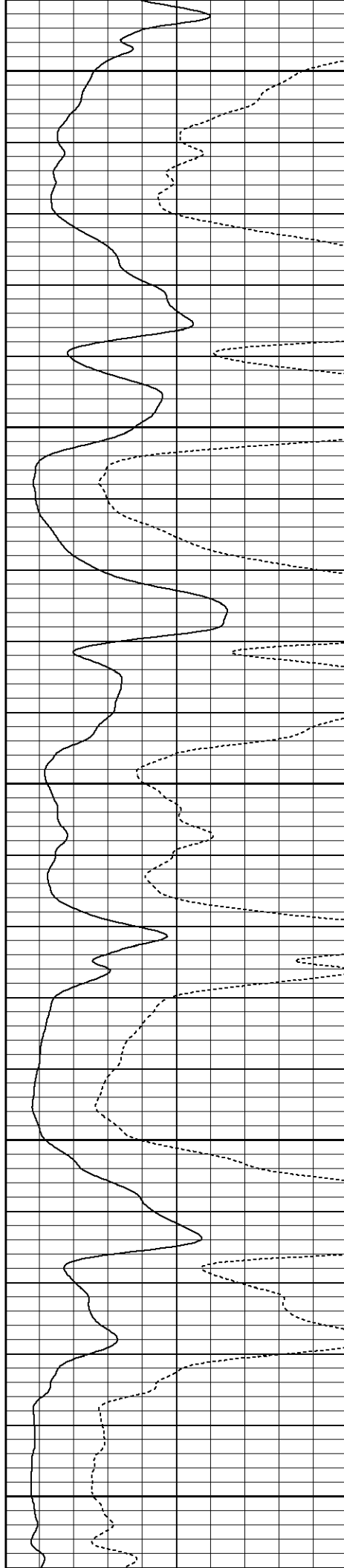
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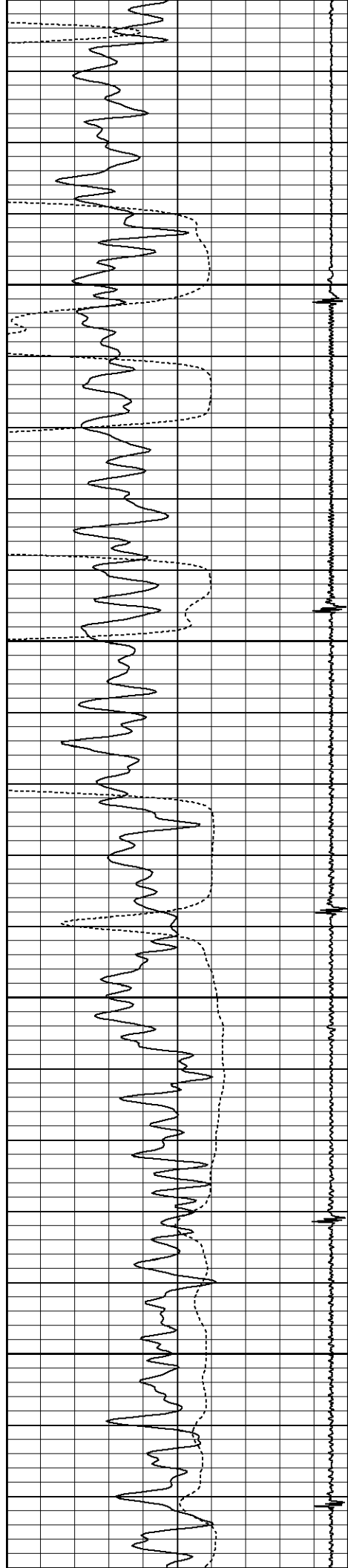
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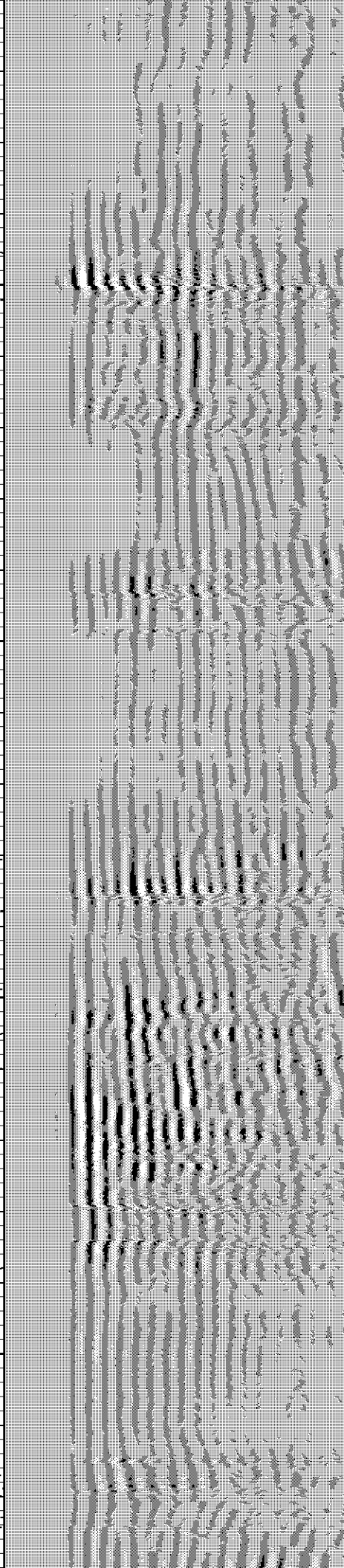
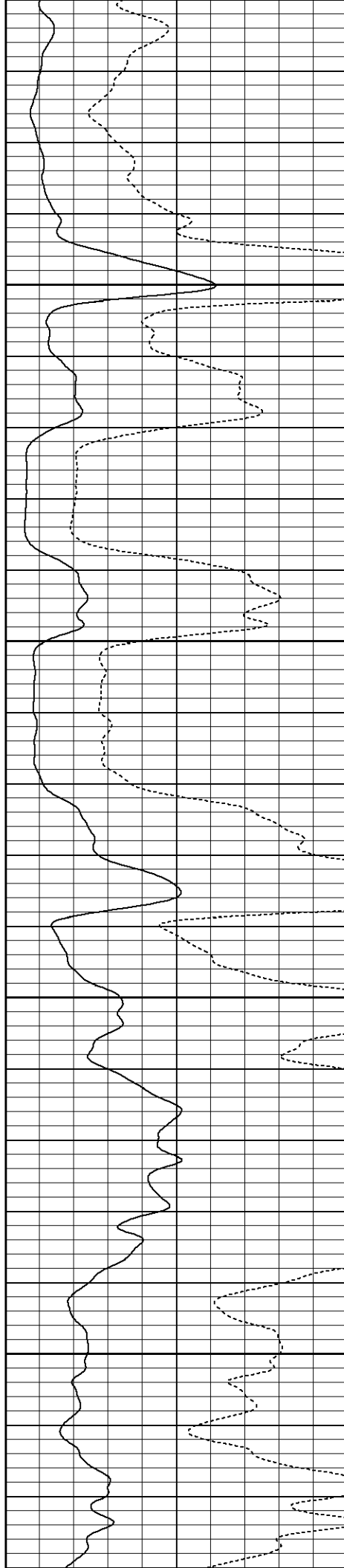


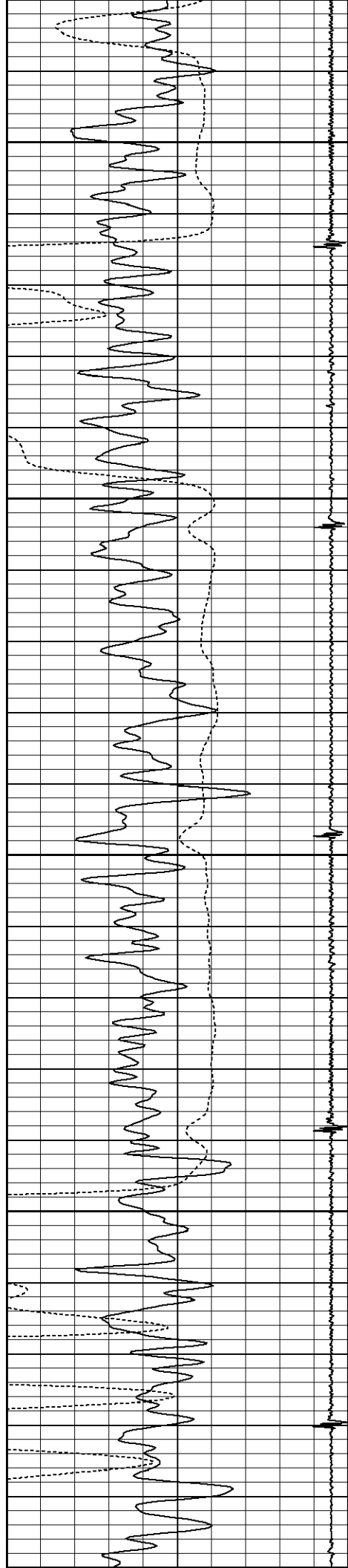
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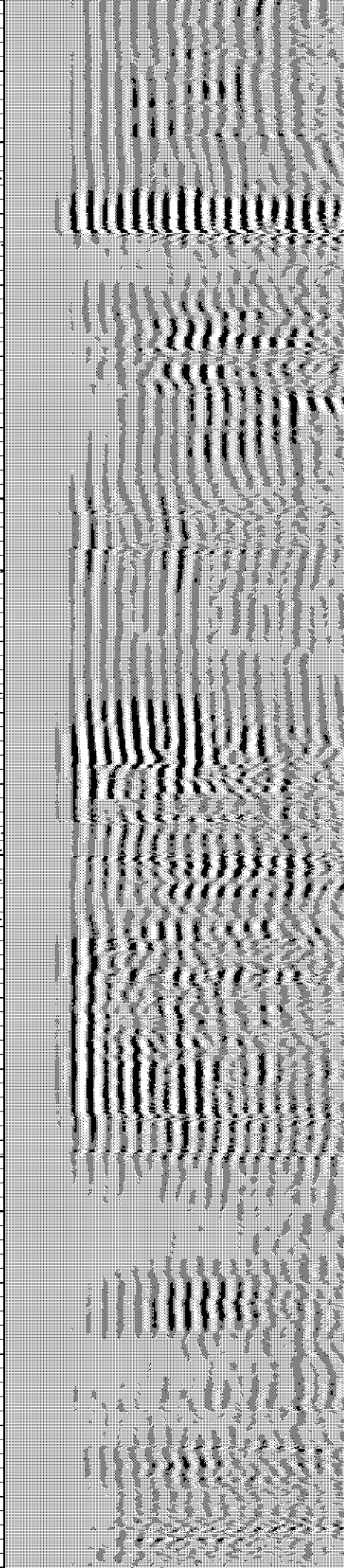
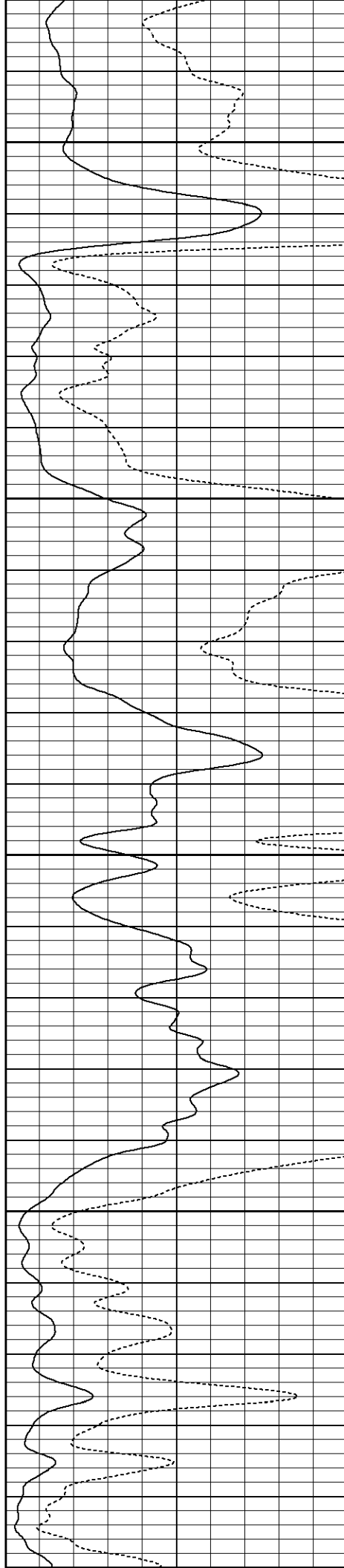
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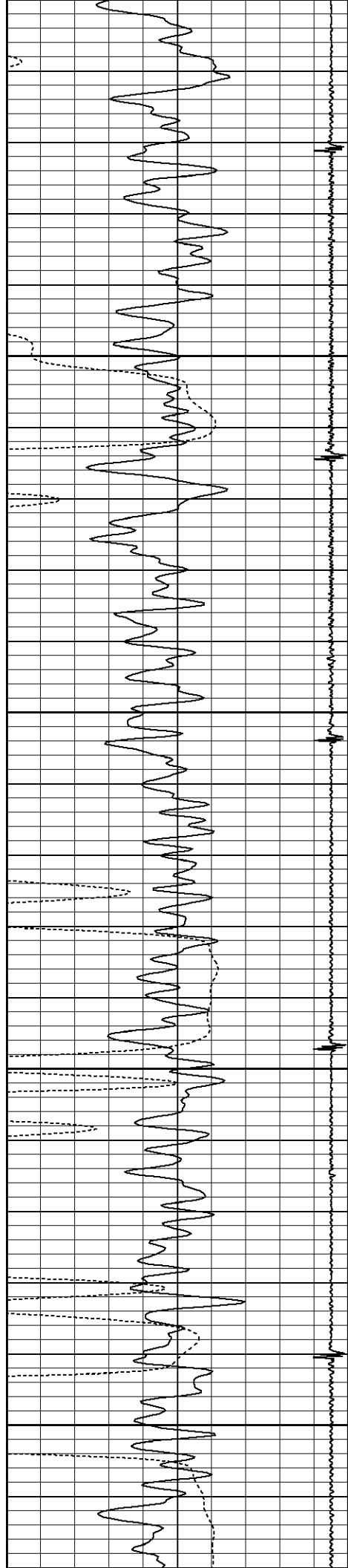
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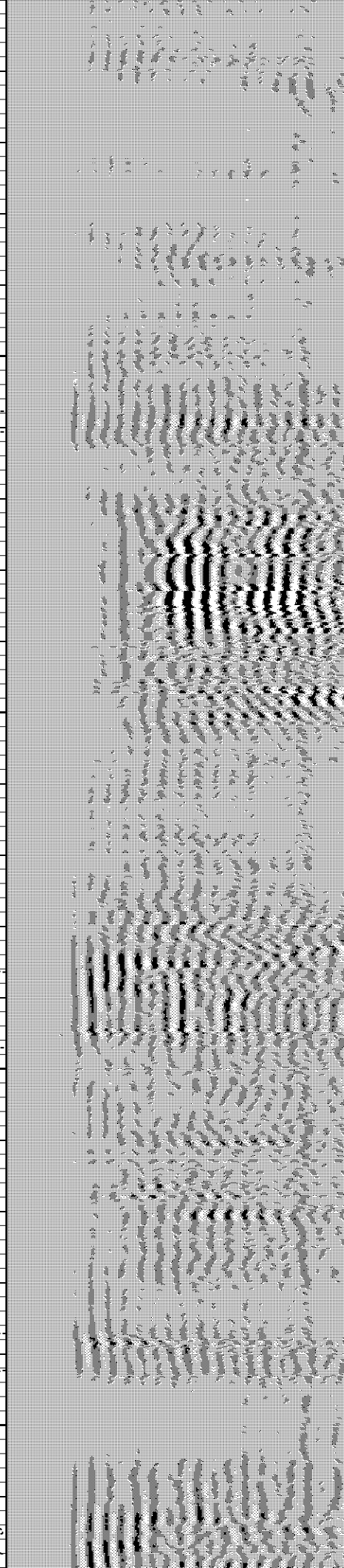
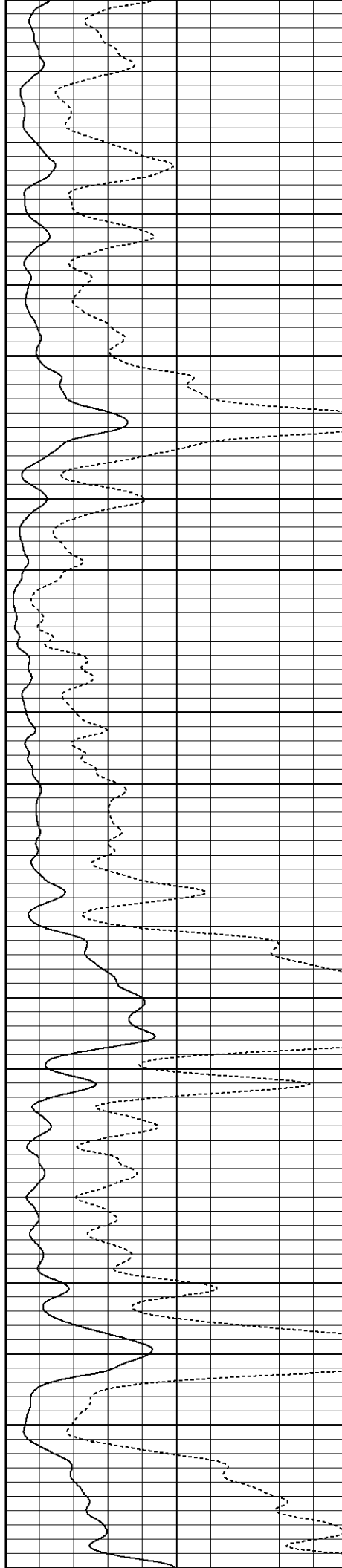
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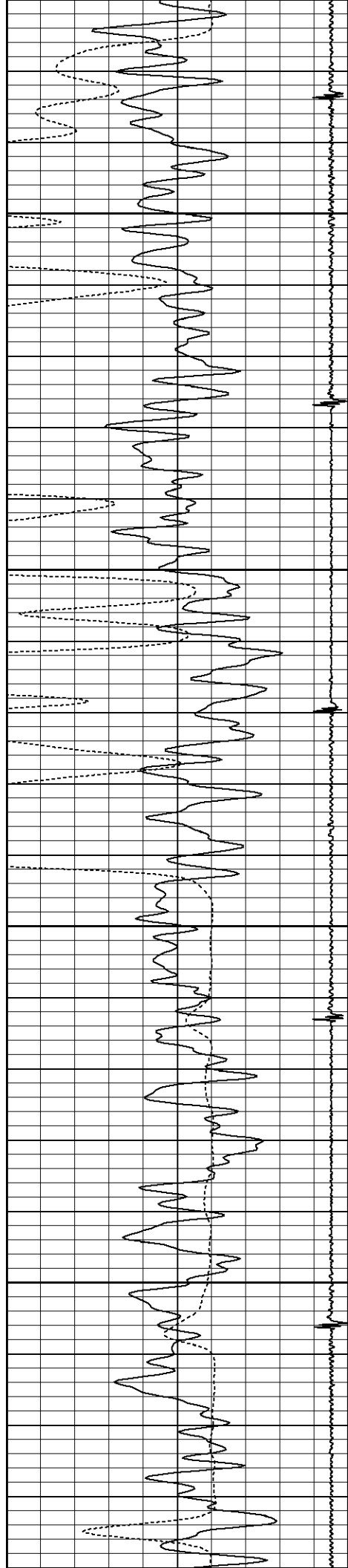
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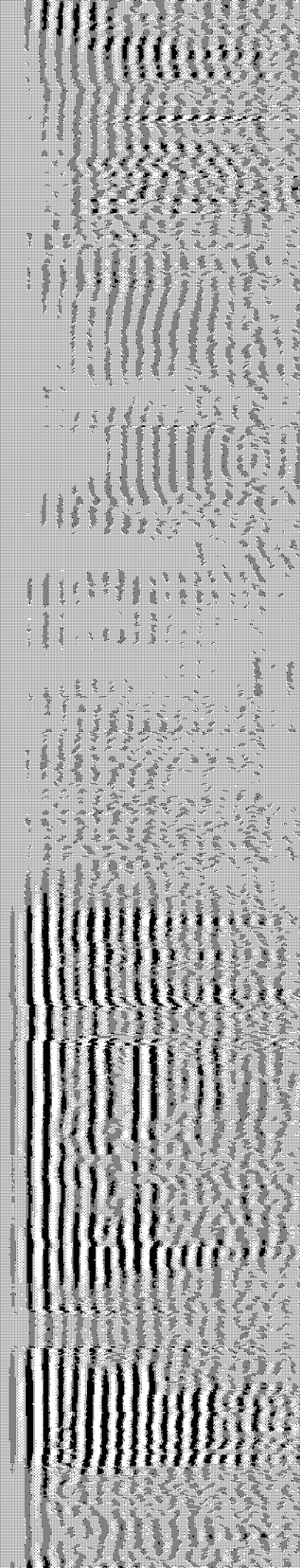
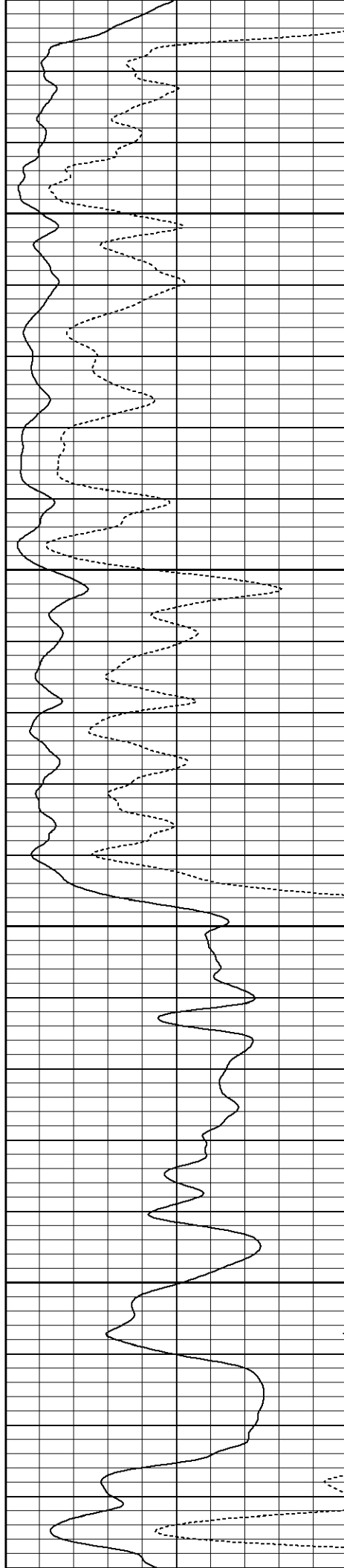


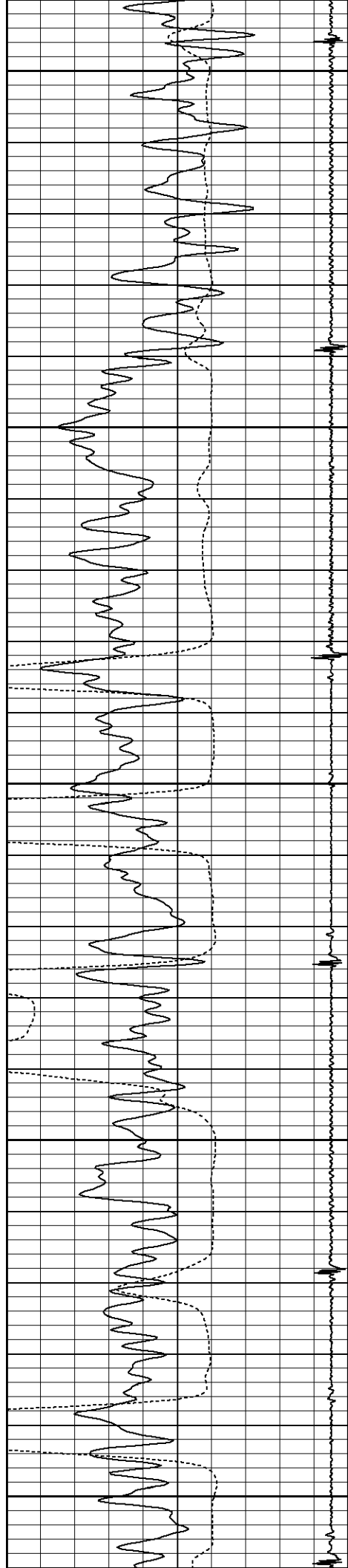
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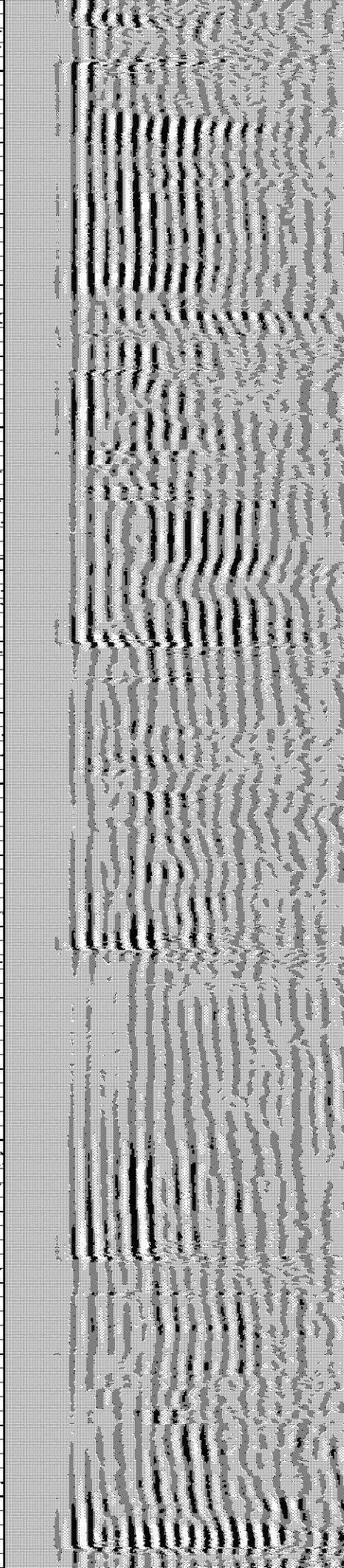
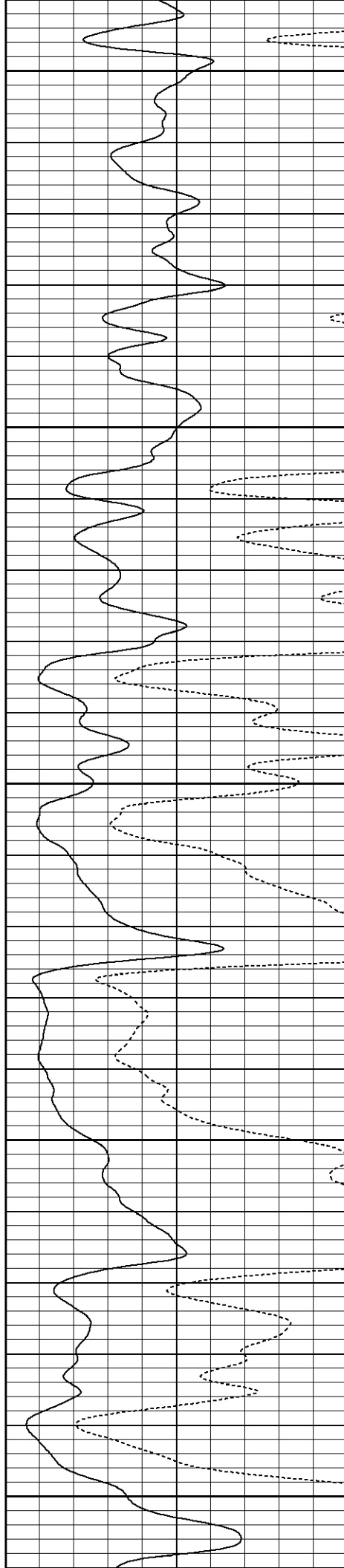
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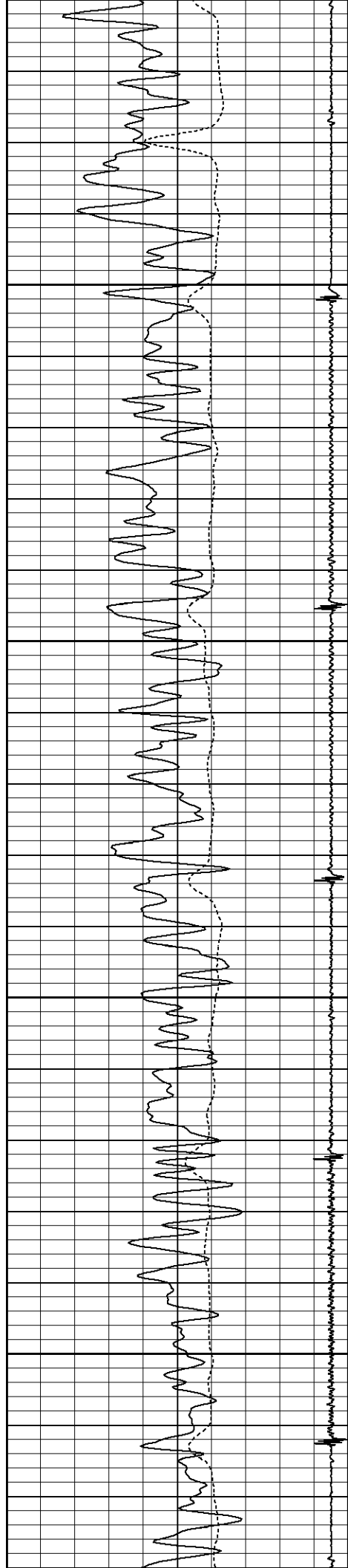
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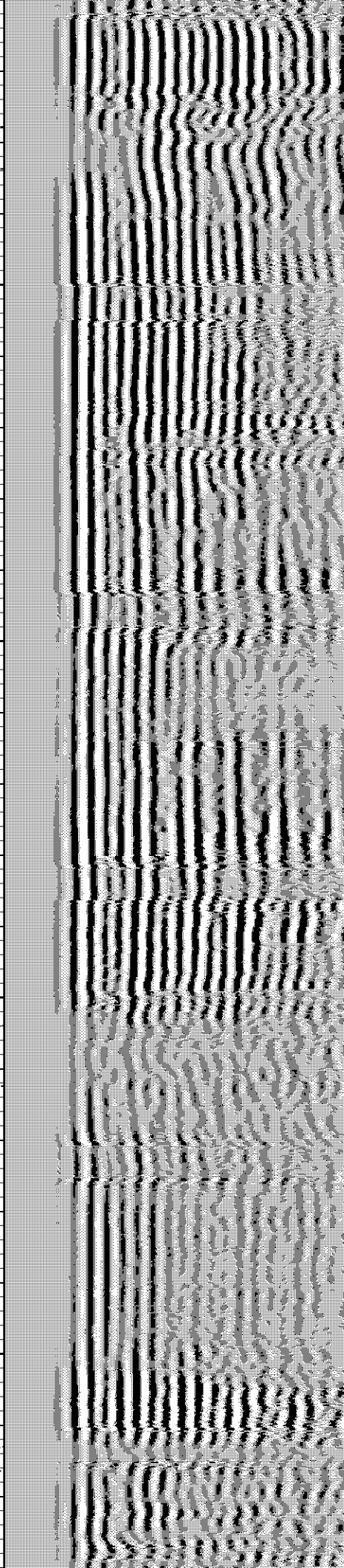
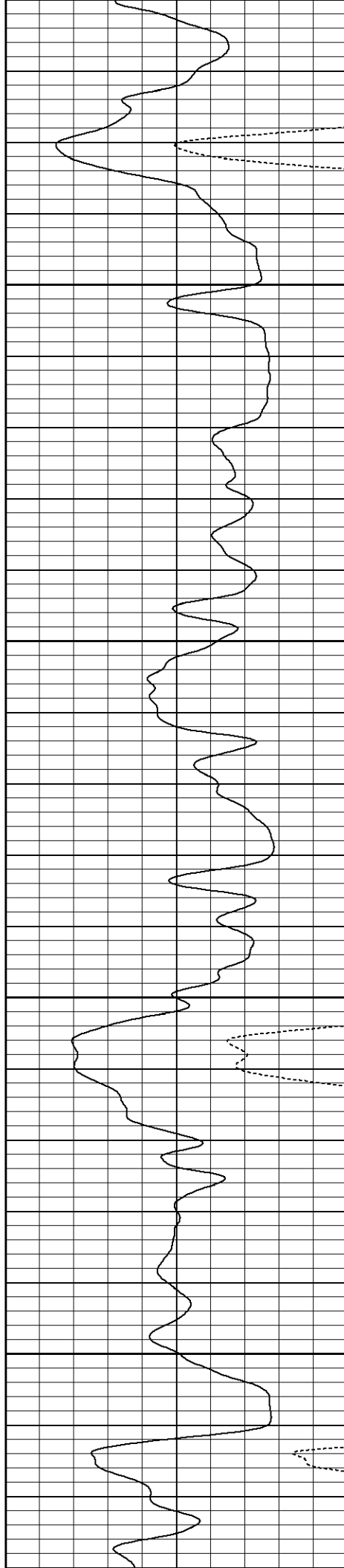


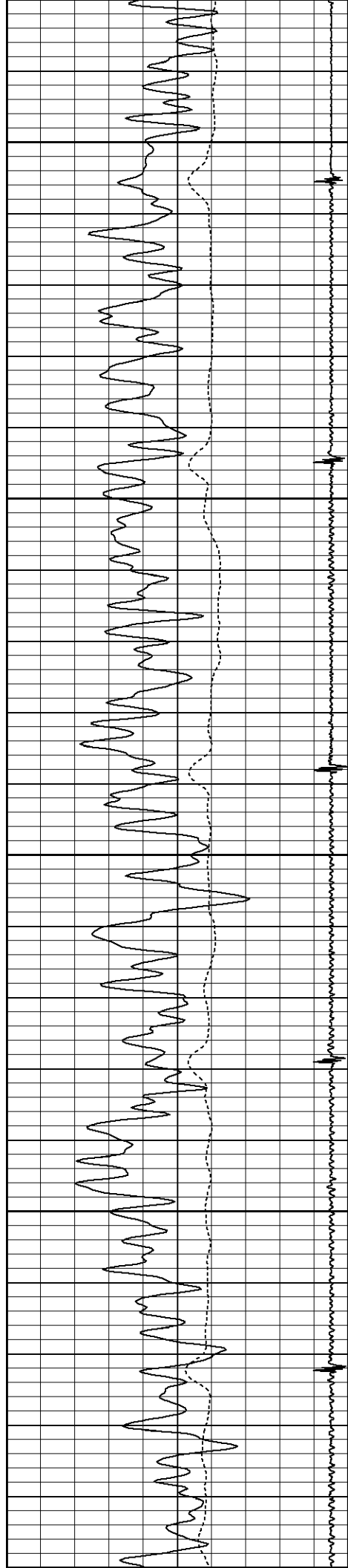
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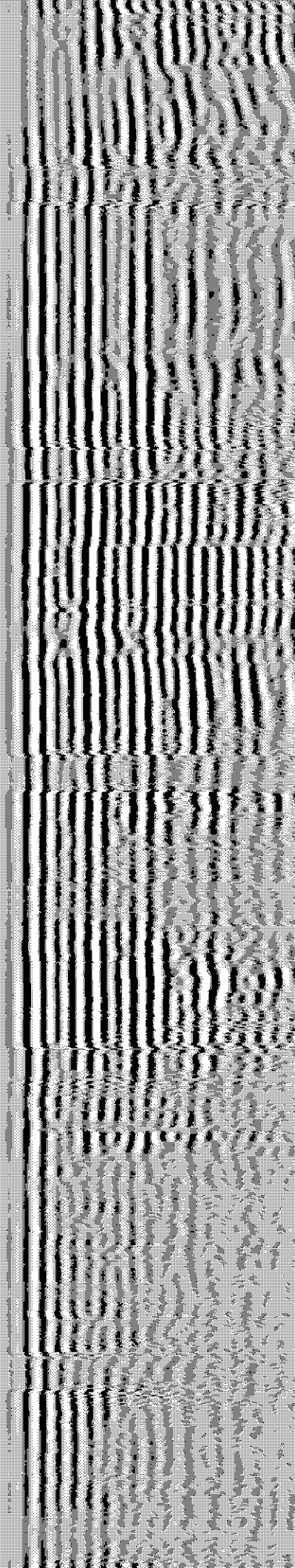
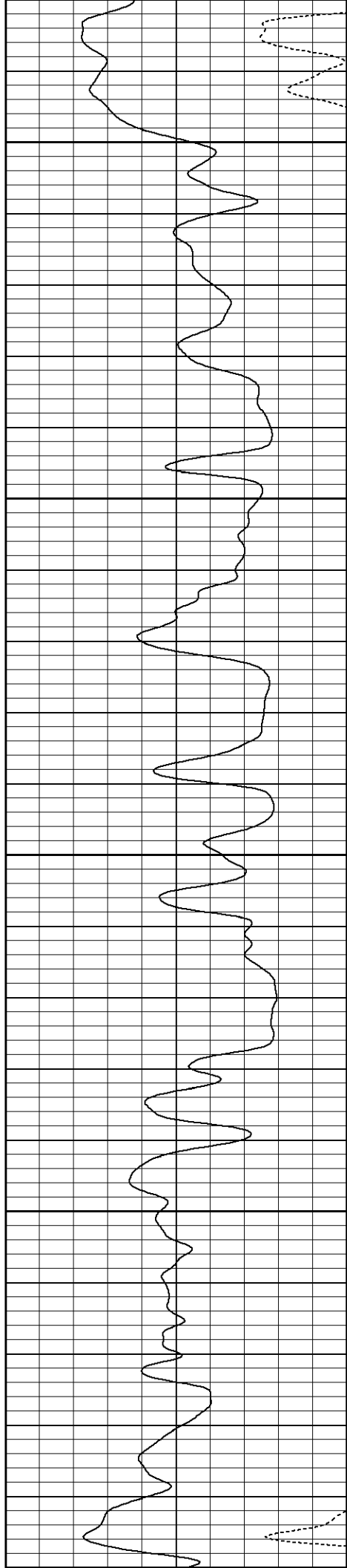
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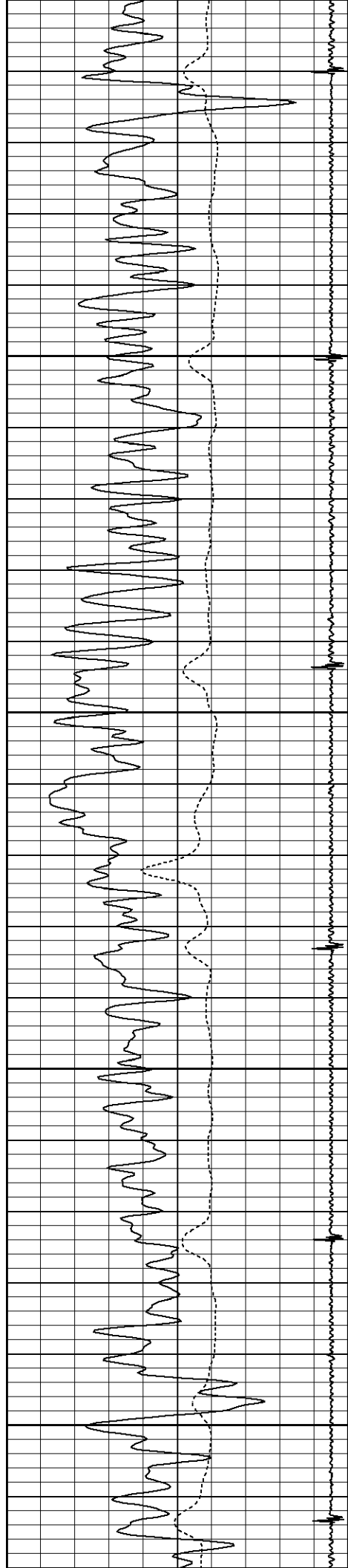
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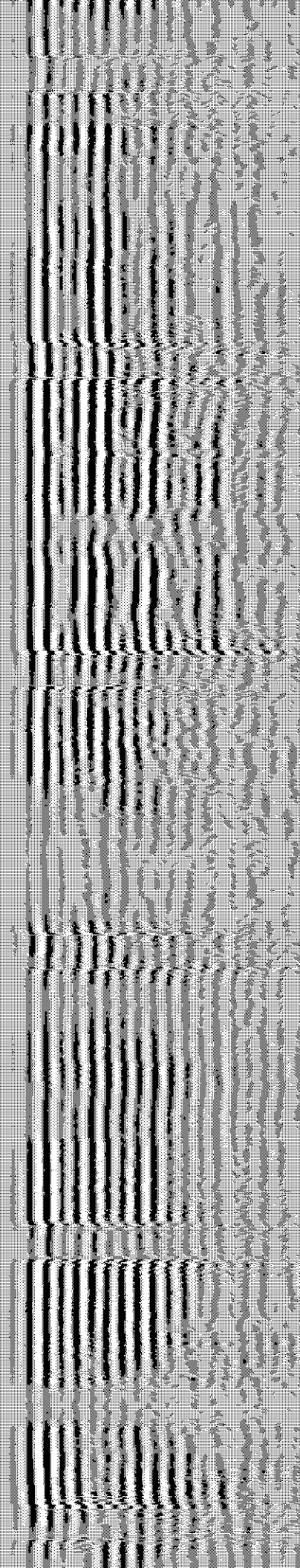
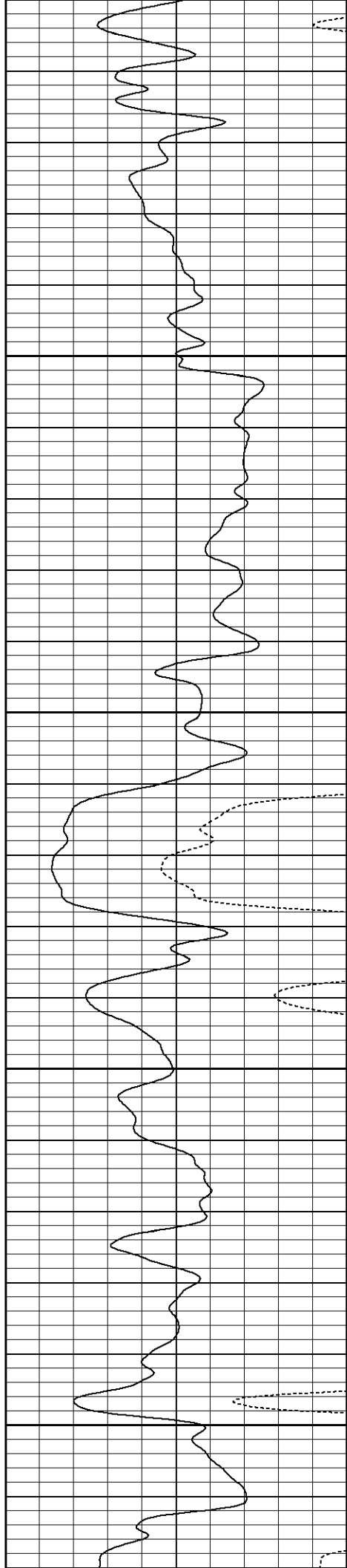
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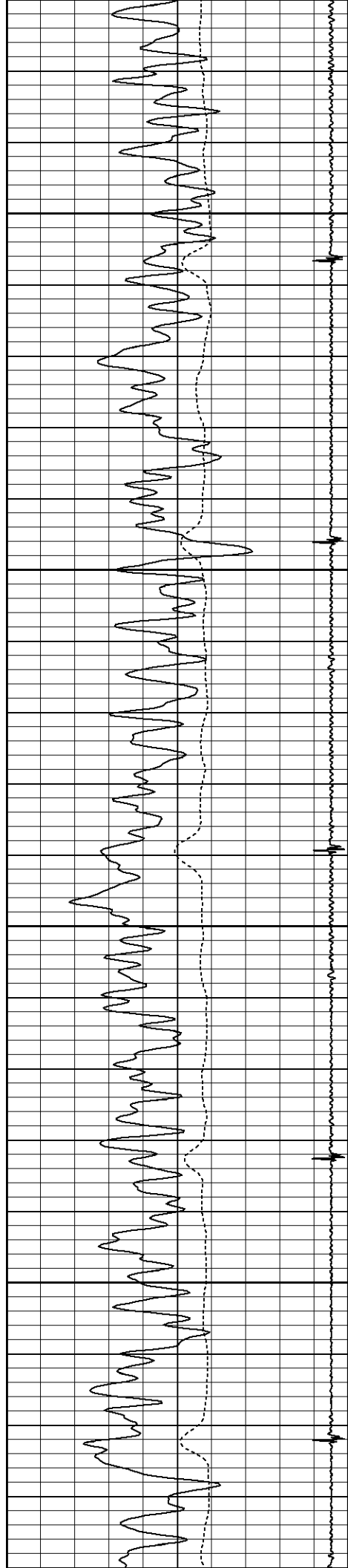
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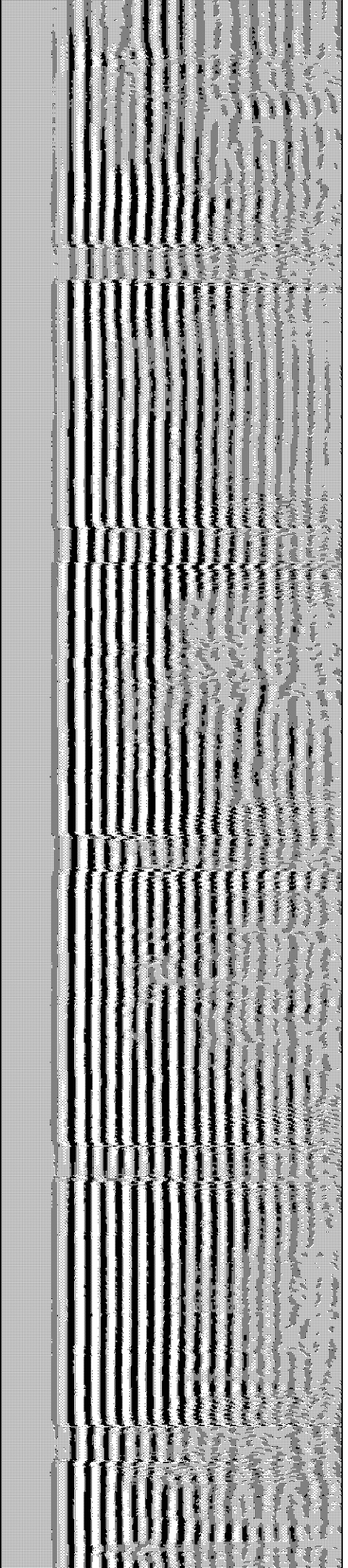
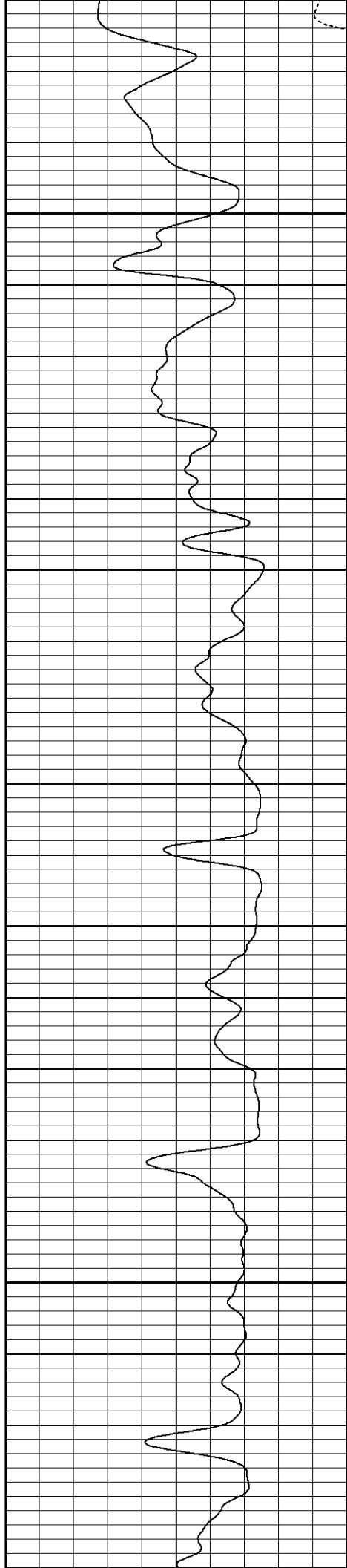


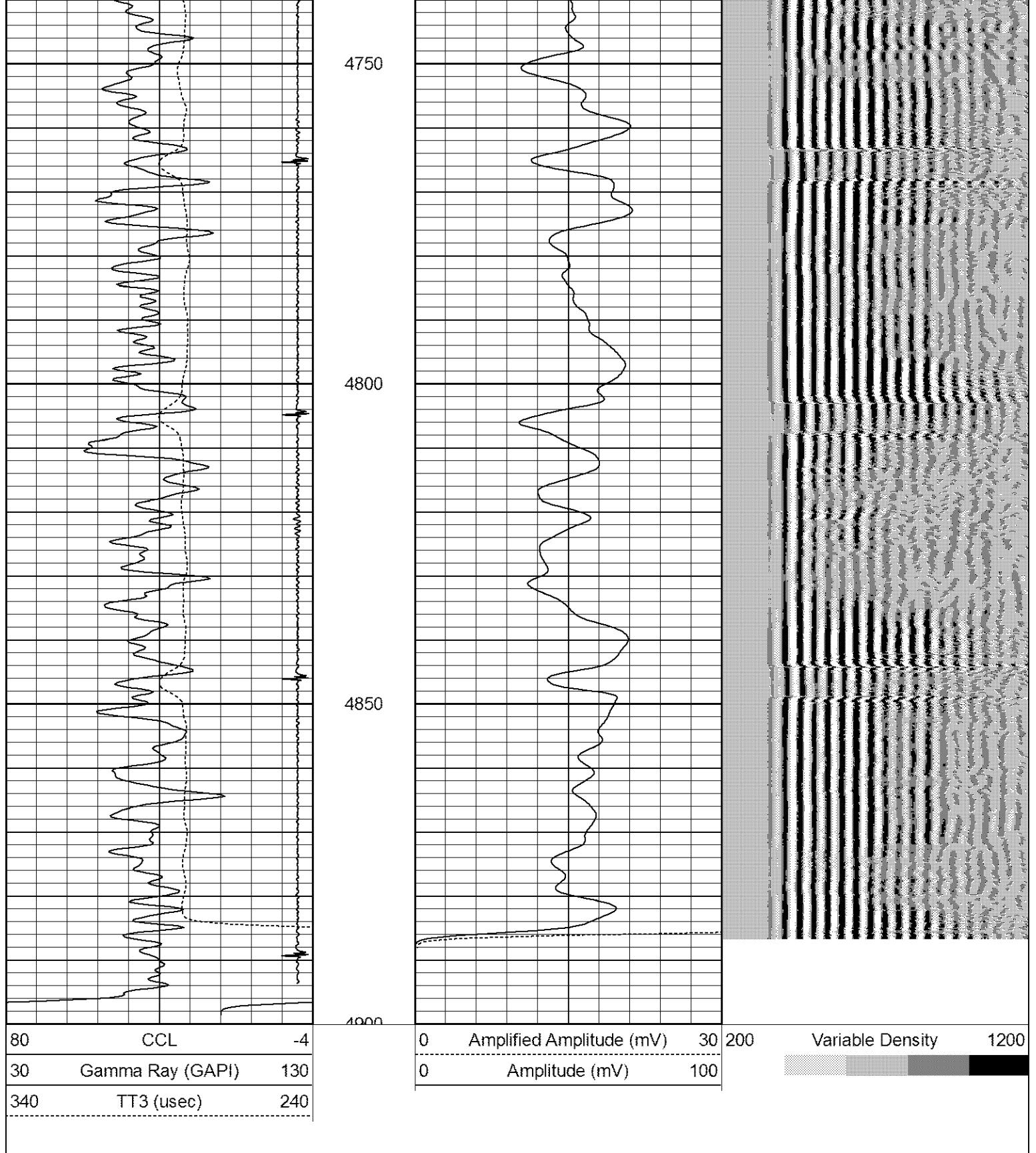
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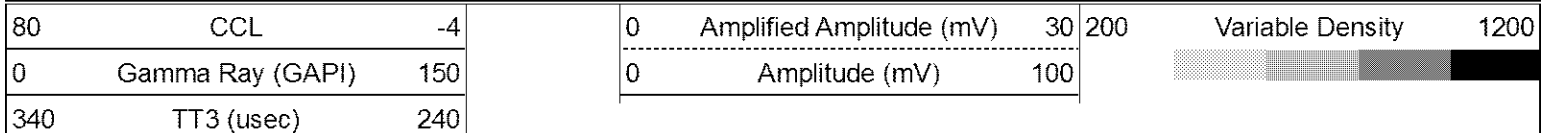
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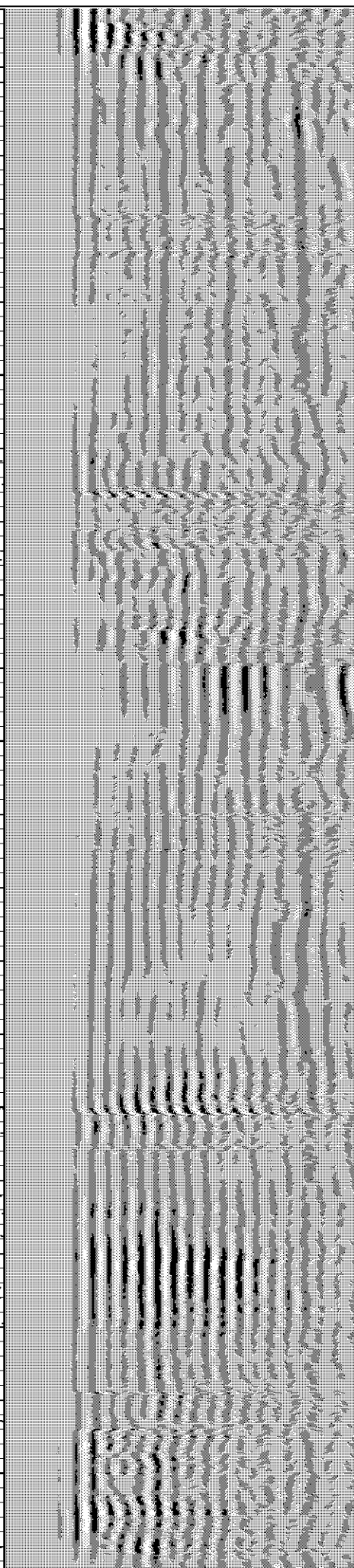
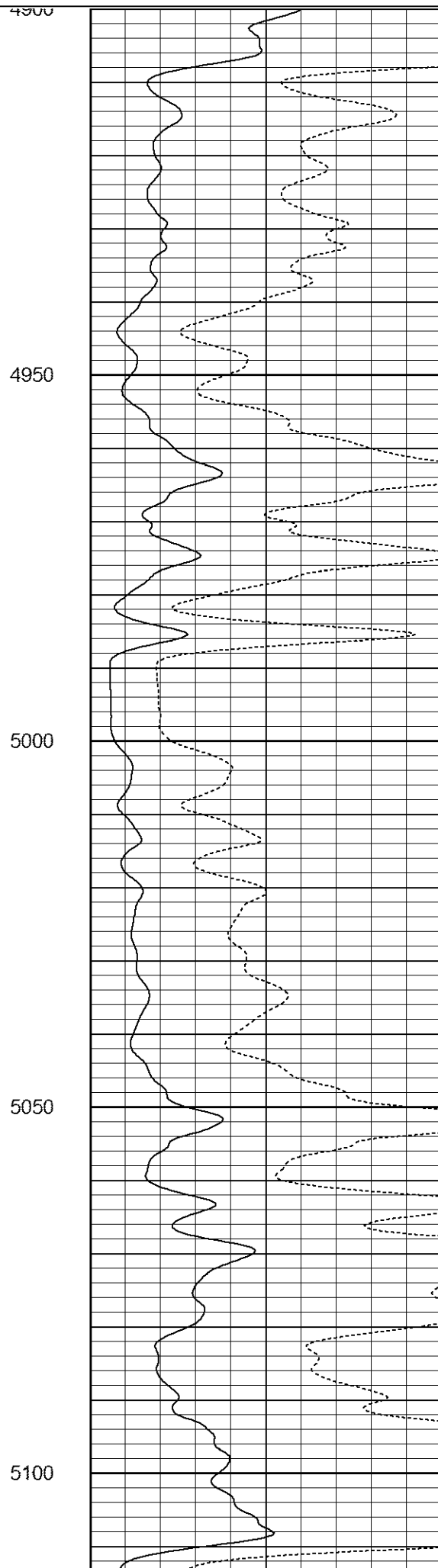
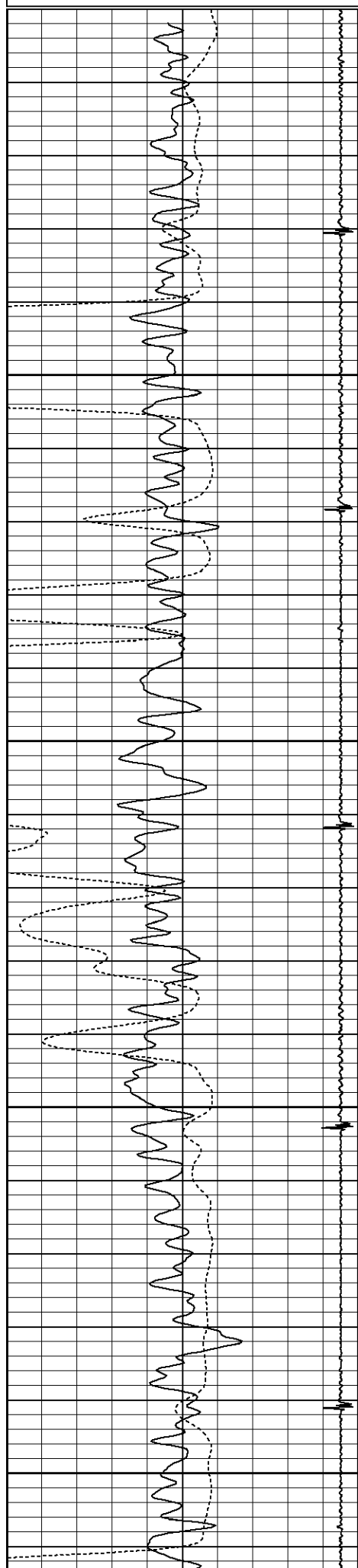
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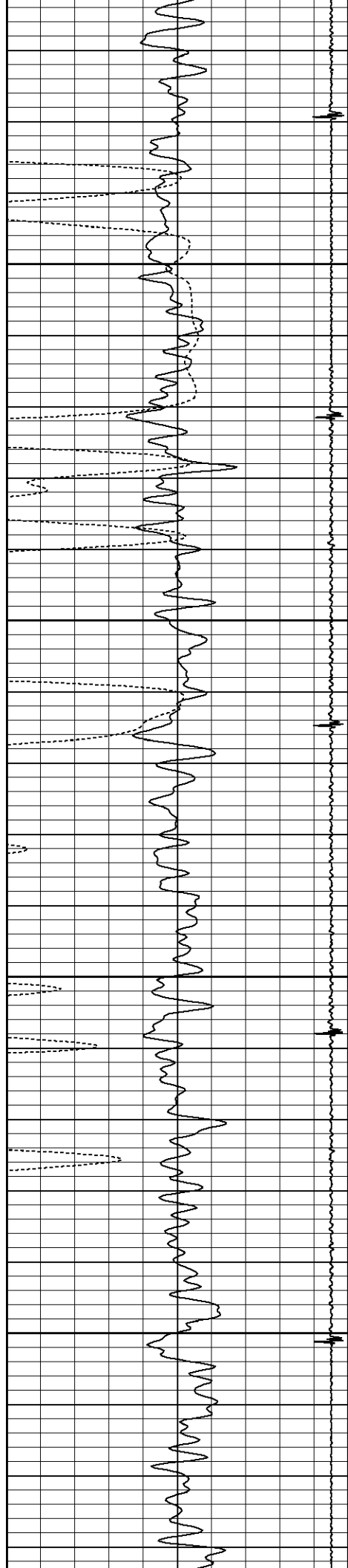




Database File: cblnovacek c28-27d.db
Dataset Pathname: pass2
Presentation Format: noble en
Dataset Creation: Fri Mar 02 10:04:52 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240





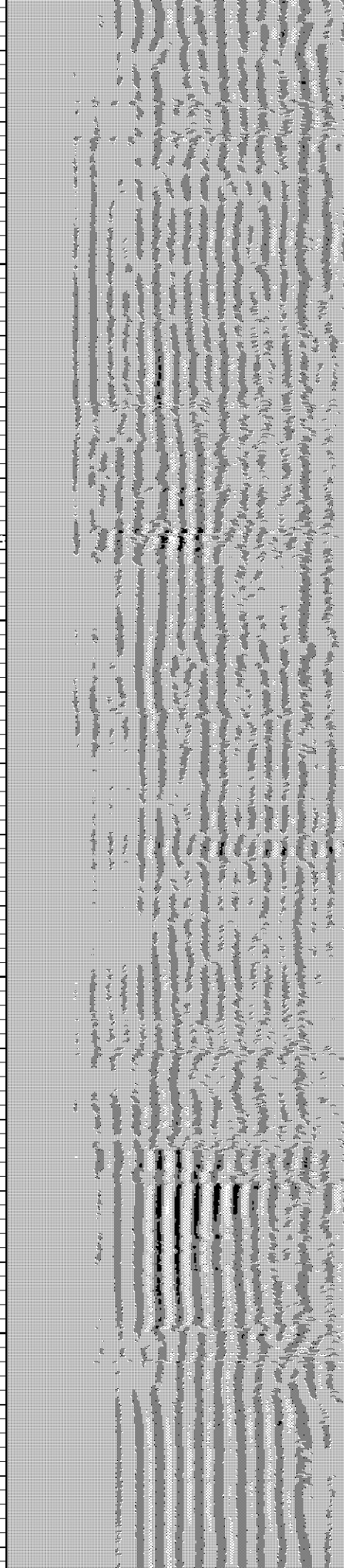
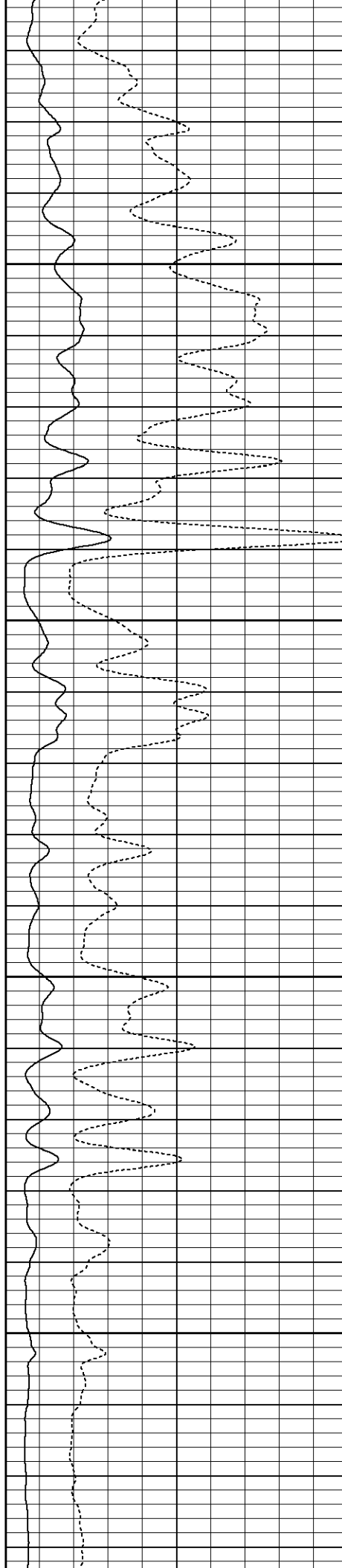


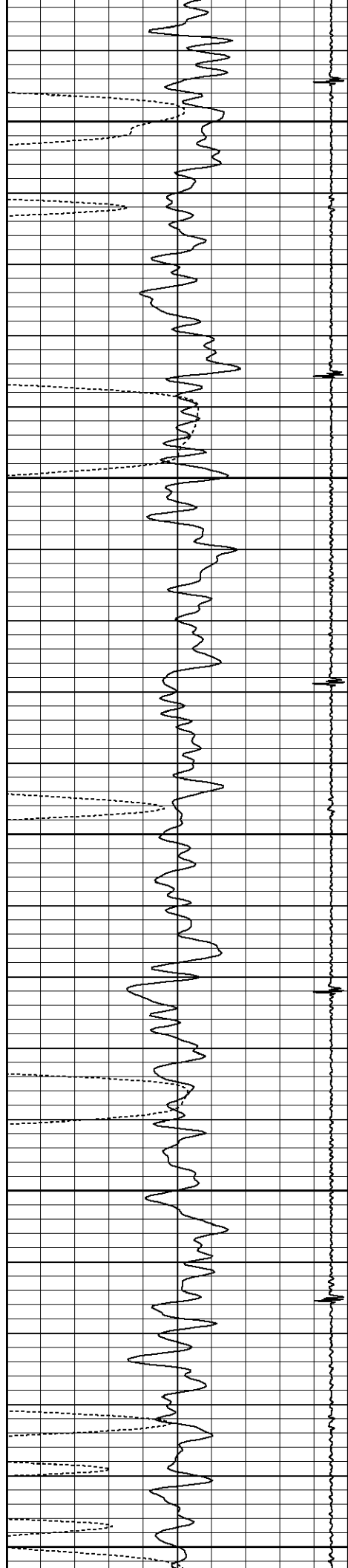
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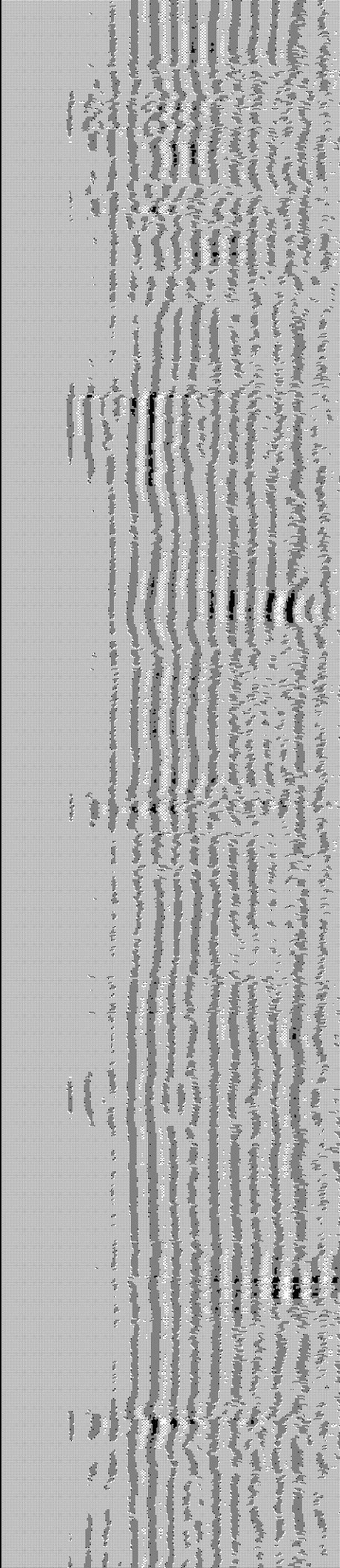
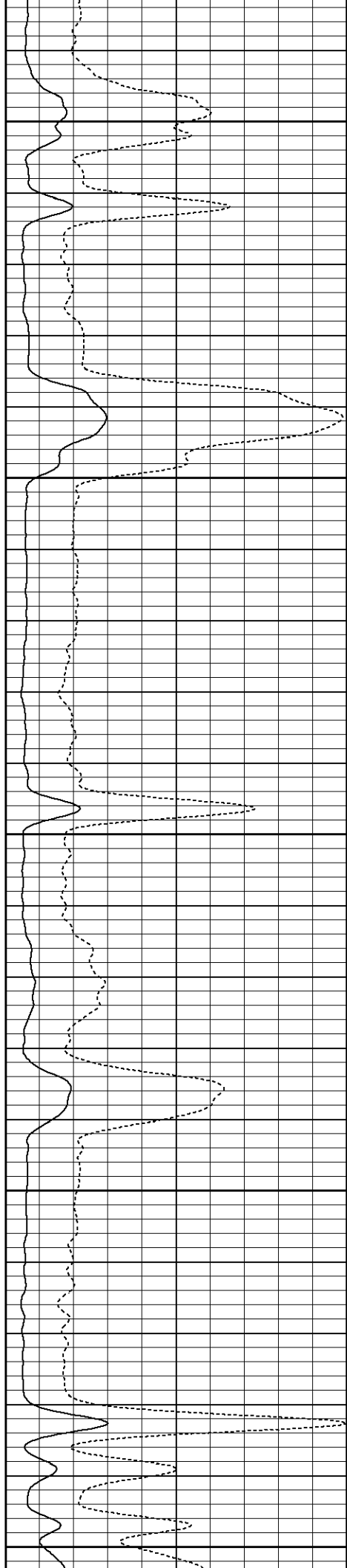
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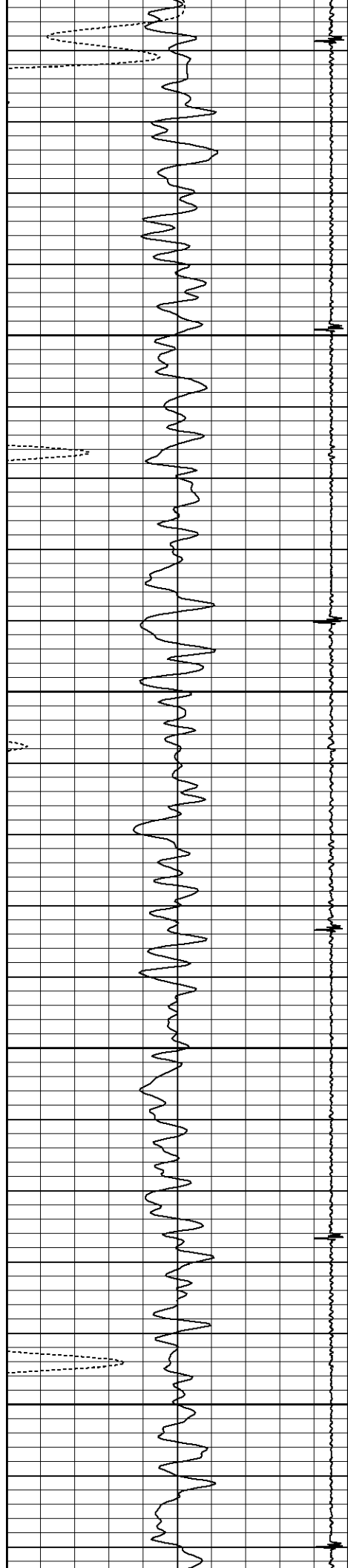
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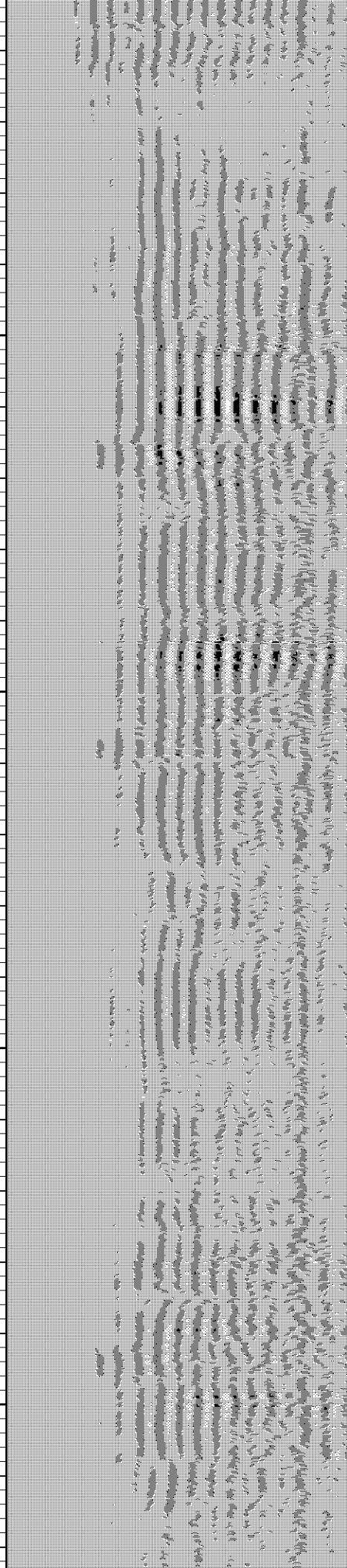
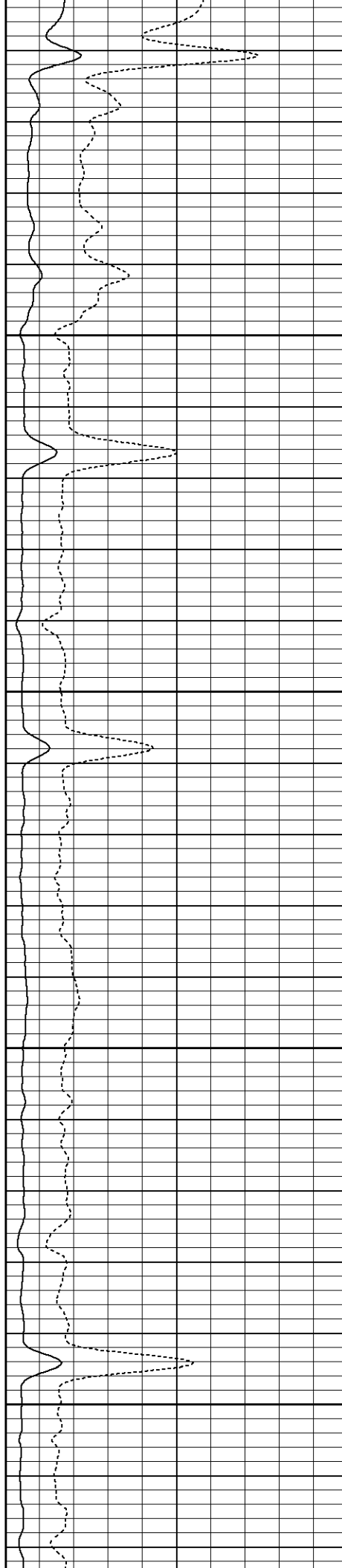


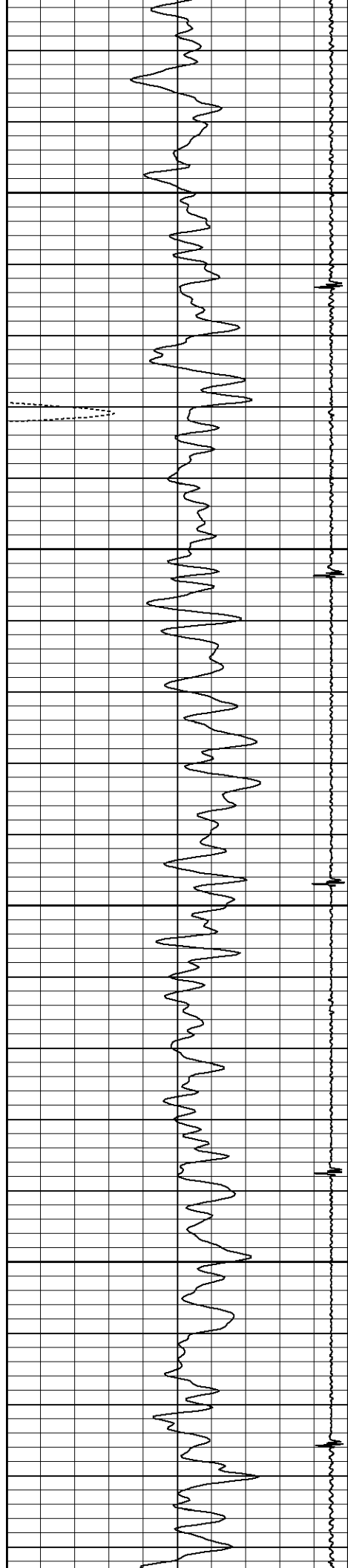
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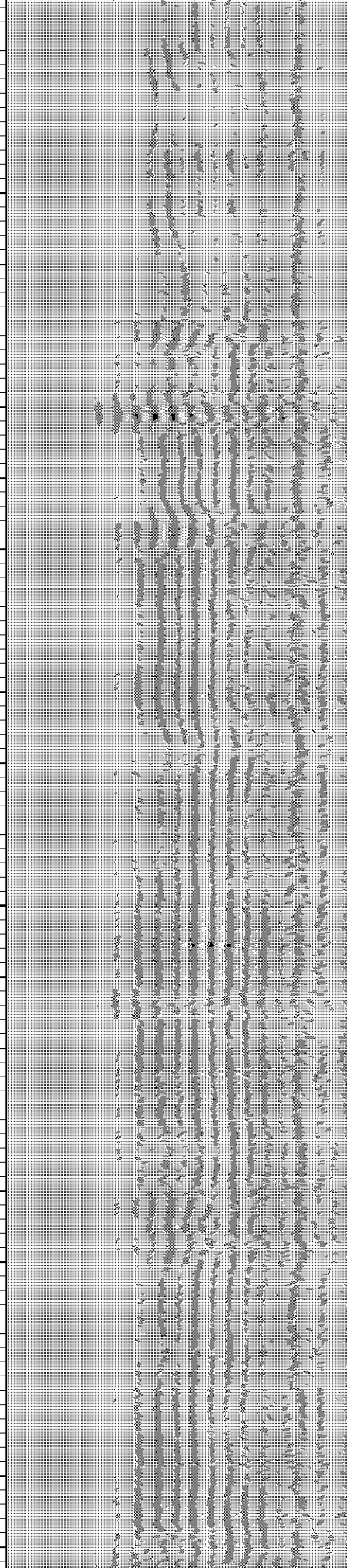
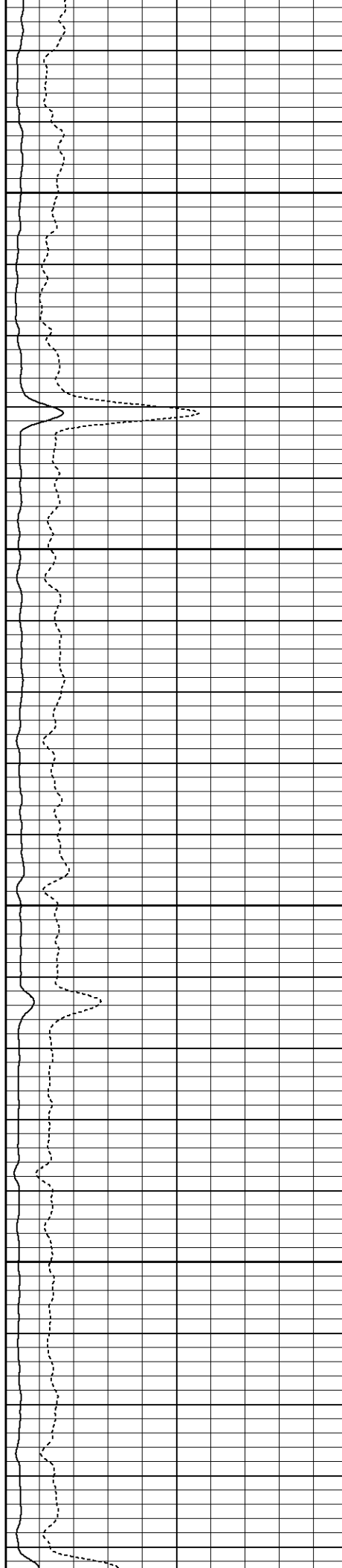


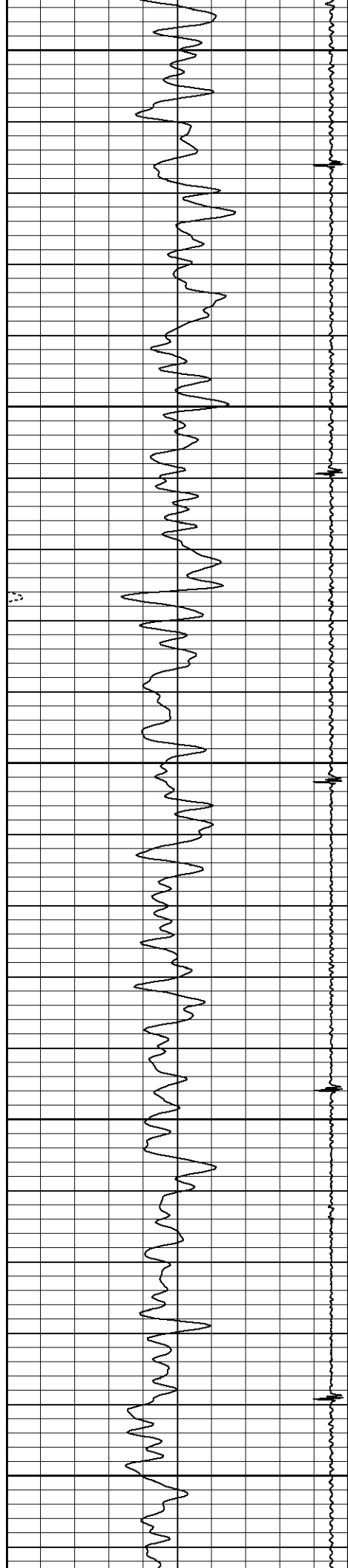
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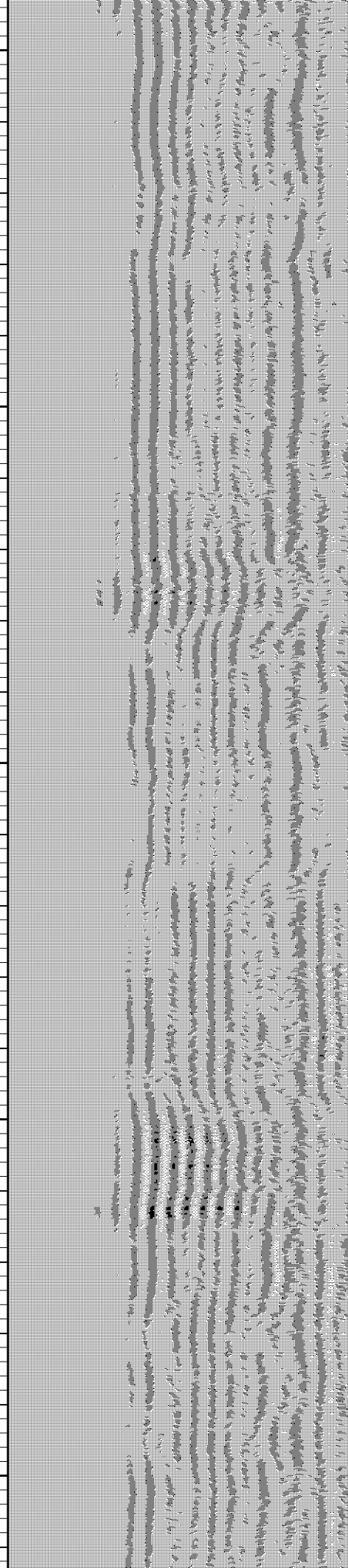
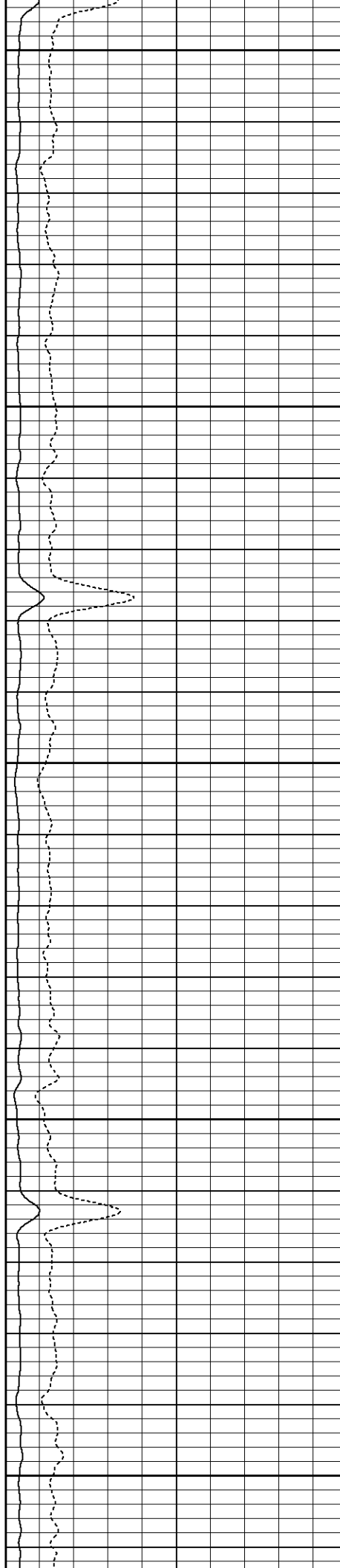
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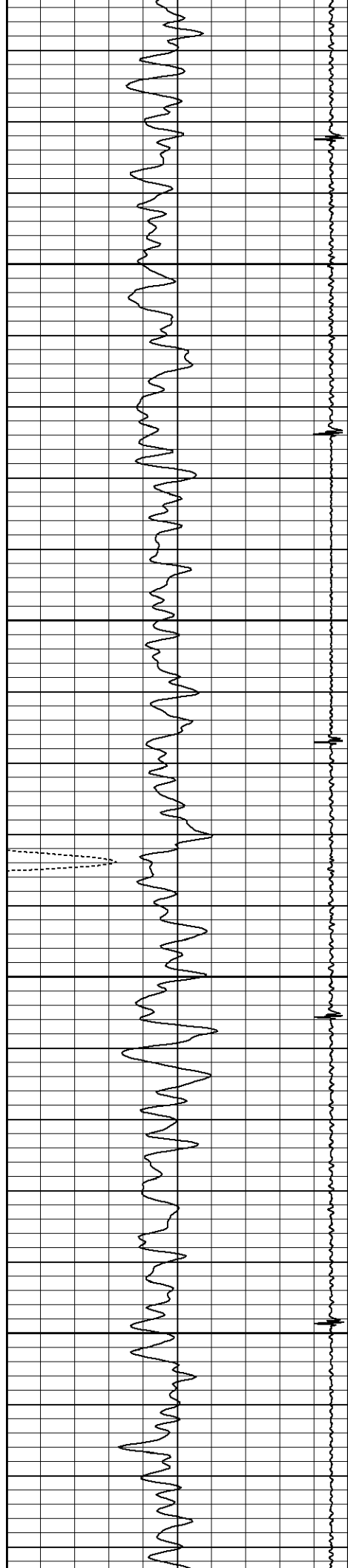
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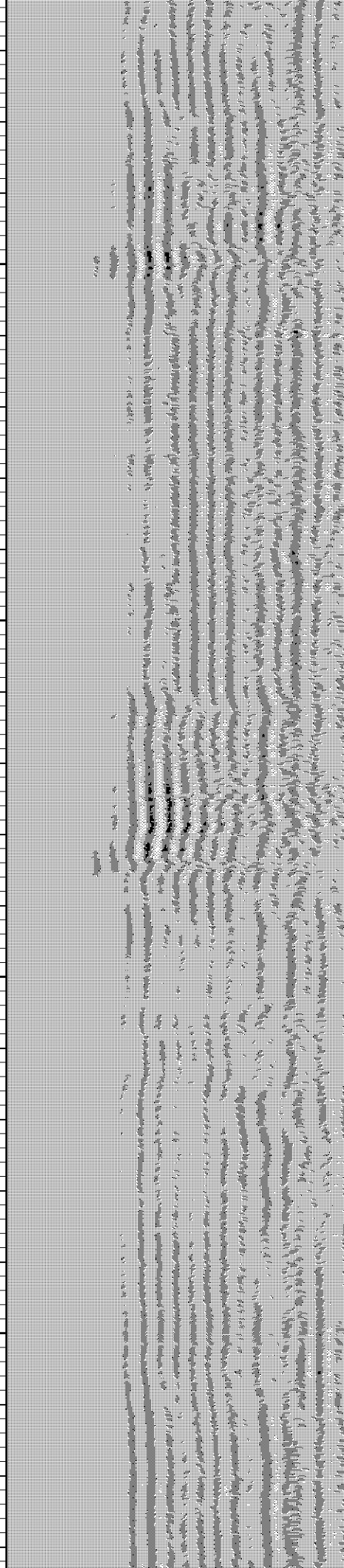
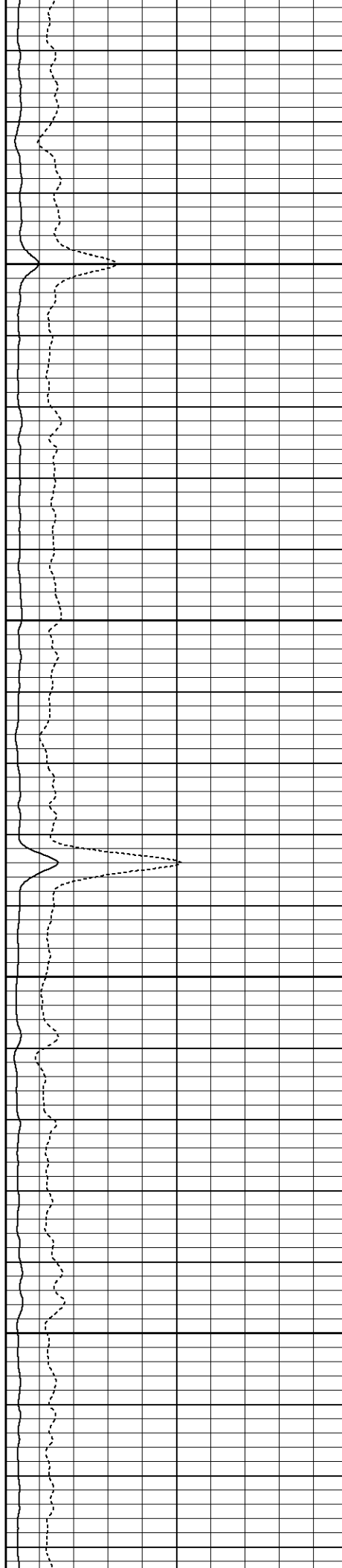


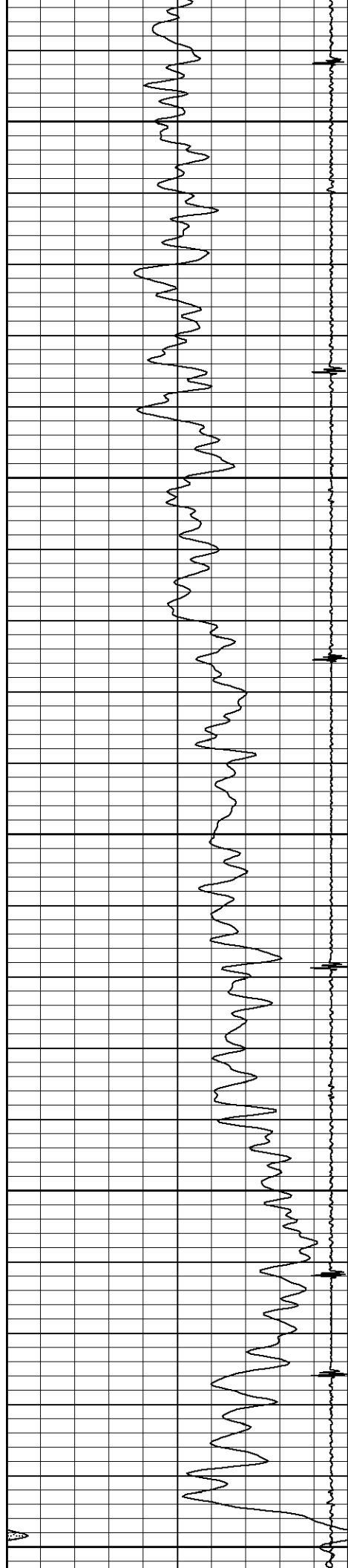
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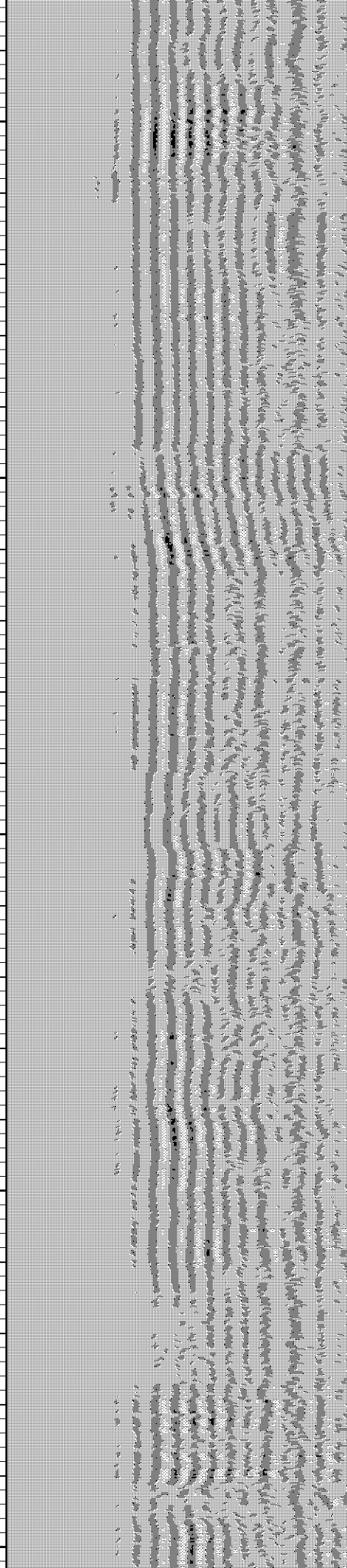
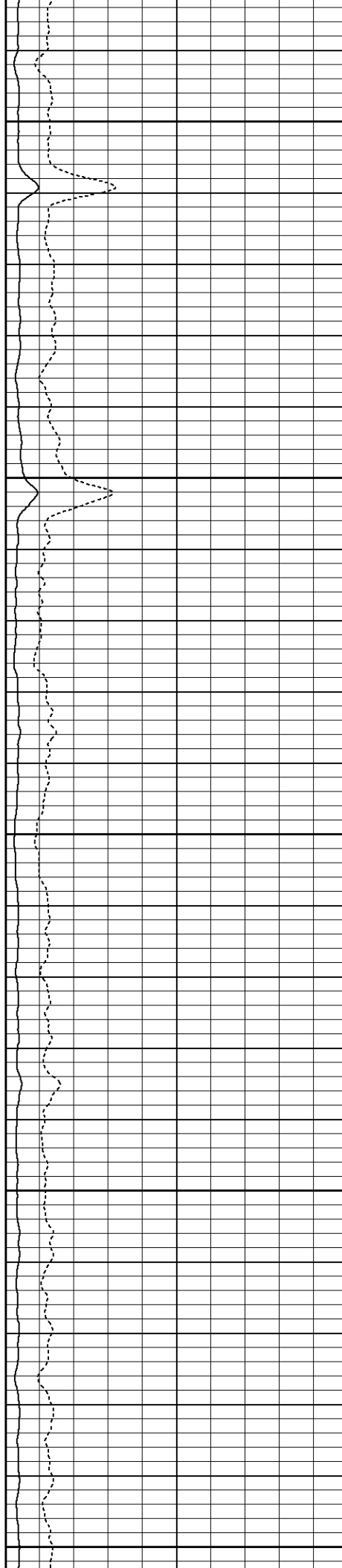
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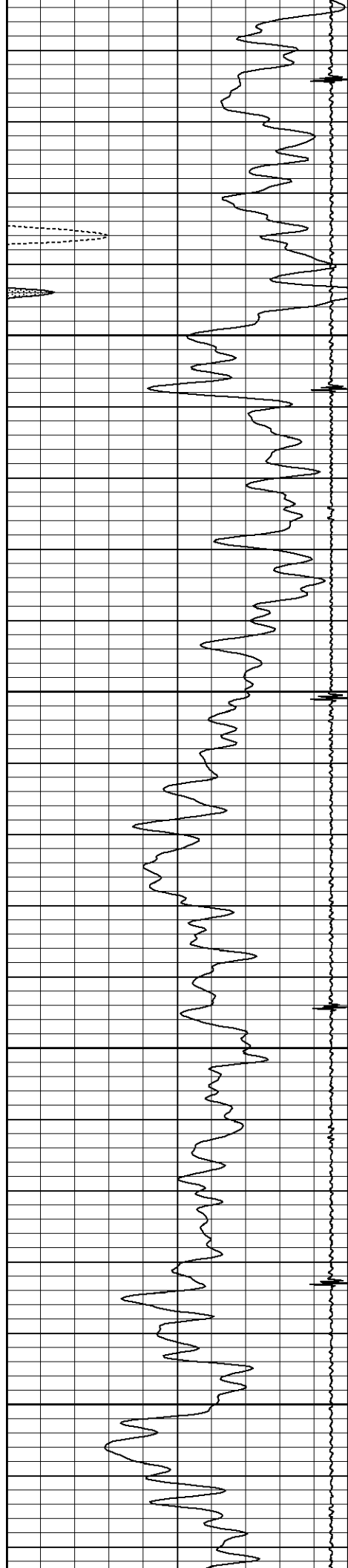
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Flag Joint

6650



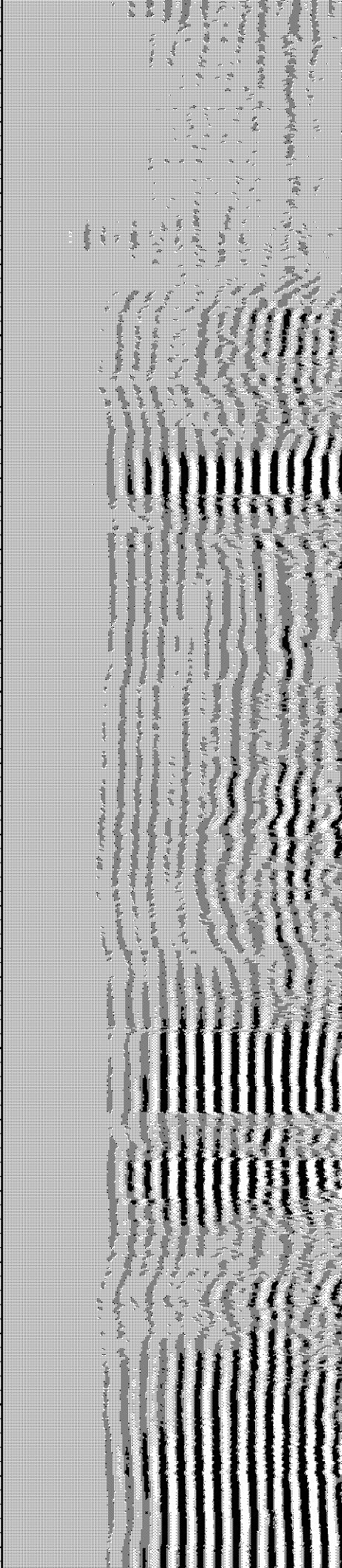
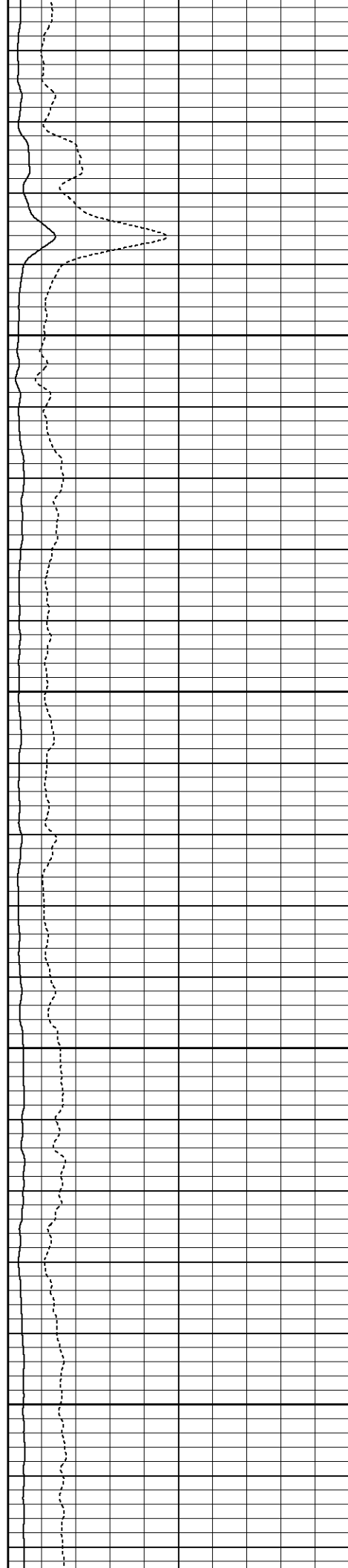


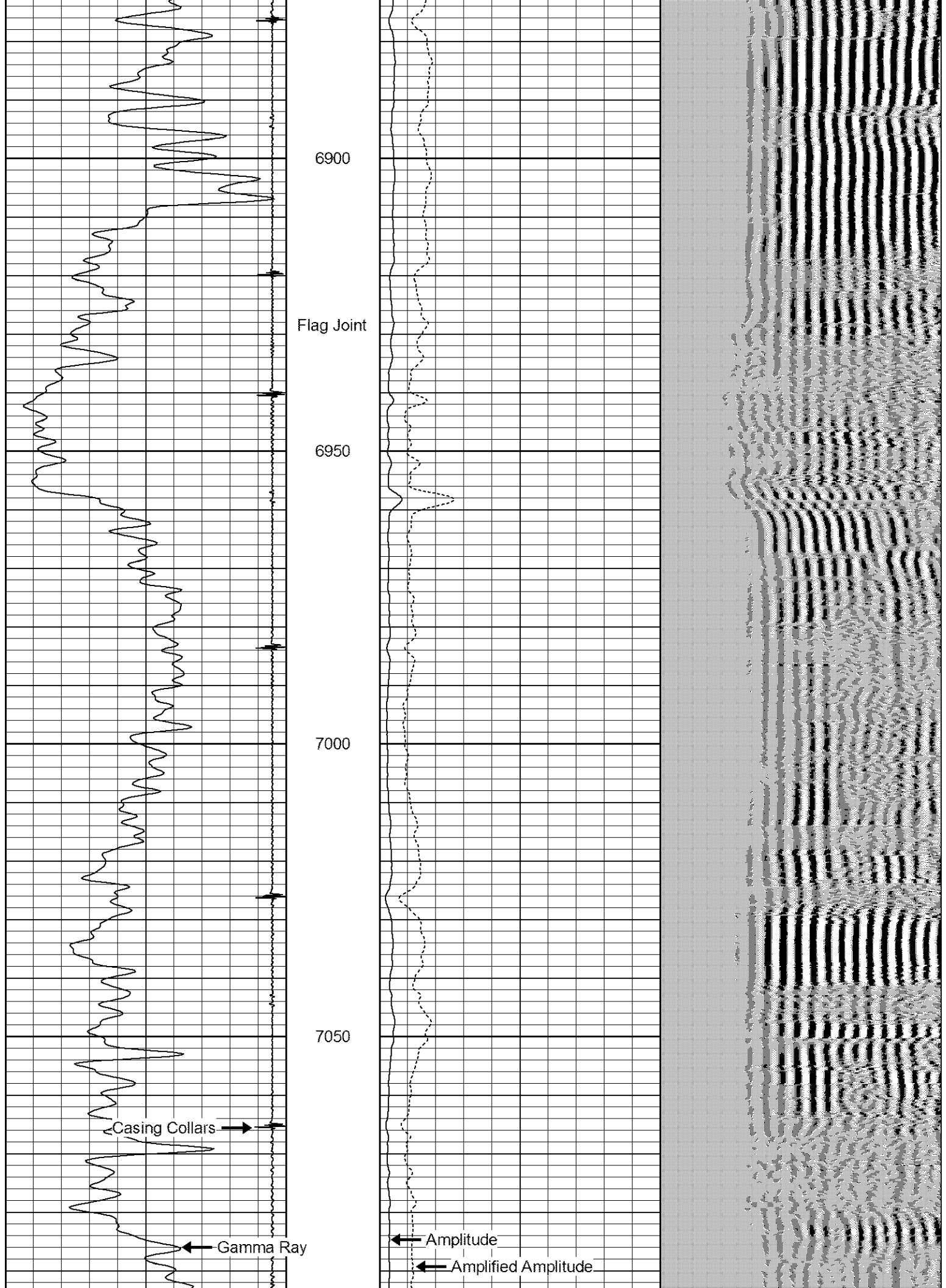
6700

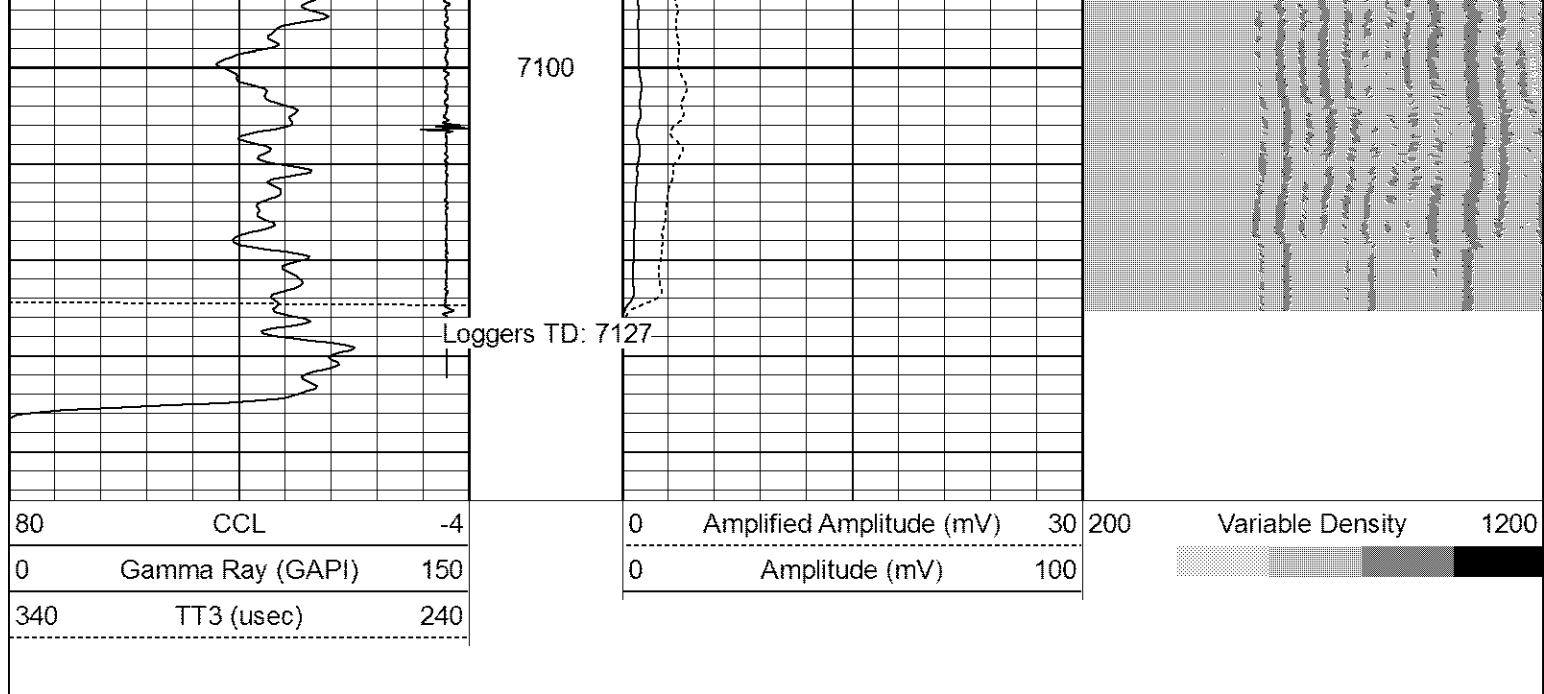
6750

6800

6850







Calibration Report

Database File: cblnovacek c28-27d.db
 Dataset Pathname: pass3
 Dataset Creation: Fri Mar 02 10:24:03 2012 by Log SCH 111116

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION

Thu Mar 01 09:59:16 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: Fri Mar 02 07:30:04 2012

Depth: 744.425 ft
 Casing Diameter: 4.5 in

3' Spacing

5' Spacing

	5" Spacing	5" Spacing	
Signal Zero:	0.7	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0134277	0.0133789	V
Reading in Free Pipe:	2.49517	2.36689	V
Gain:	32.4354	34.4999	
Offset:	0.264466	-0.461571	