

CEMENT BOND LOG GAMMA RAY CCL V D L

Company		Noble Energy INC.	
Well		WELLS RANCH USX AA13-67HN	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API # : 05123336770000	
Permanent Datum		GL	
Log Measured From		KB 24'	
Drilling Measured From		KB	
SEC 13 TWP 6N RGE 63W		NW NW	
Elevation 4836		Elevation	
K.B. 4860		D.F. 4859	
G.L. 4836			
Date		May 2, 2012	
Run Number		One	
Depth Driller		10,993	
Depth Logger		6903	
Bottom Logged Interval		6902	
Top Log Interval		Surface	
Casing Size		7.0"	
Type Fluid		Water	
Max. Recorded Temp.		214 deg F	
Estimated Cement Top		2127	
Time Well Ready		Crane	
Time Logger On Bottom		AM	
Unit Number		4367	
Tool Size / ID Number		2.75 Probe 101010	
Location		Platteville, CO	
Recorded By		K. Monaghan	
Witnessed By		B. Mansfield	
Borehole Record		Tubing Record	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size	
Surface String		9 5/8"	
Prot. String		36 lb/ft J-55	
Production String		7.0"	
Liner		4 1/2"	
Mgt/Ft		Top	
Surface		Bottom	
26 lb/ft P-110		587.6	
Surface		6993.3	
11.6 lb/ft P-110		6889.1	
10,978			

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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

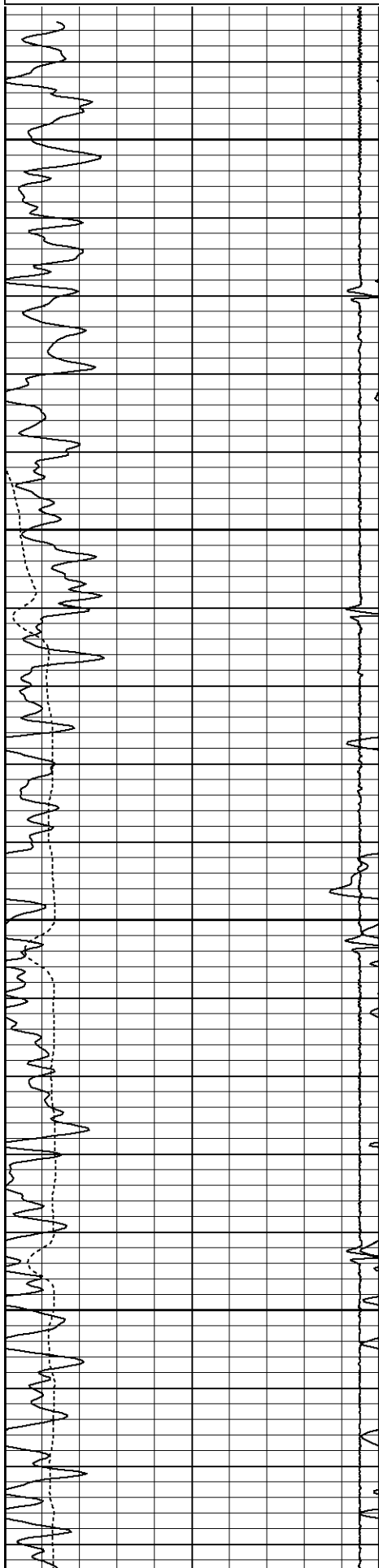
Thank You For Choosing Superior Well Services!!!
API# 05-123-33677-0000
Wirline Zero @ 24' KB
Directions: 68 & 69, E 1.25mi, S 3/4, W Into

Database File: cblwells ranch usx aa13-67hn.db
Dataset Pathname: pass3
Presentation Format: noble en
Dataset Creation: Wed May 02 07:26:01 2012 by Log SCH 120126
Charted by: Depth in Feet scaled 1:240

95	CCL	-5
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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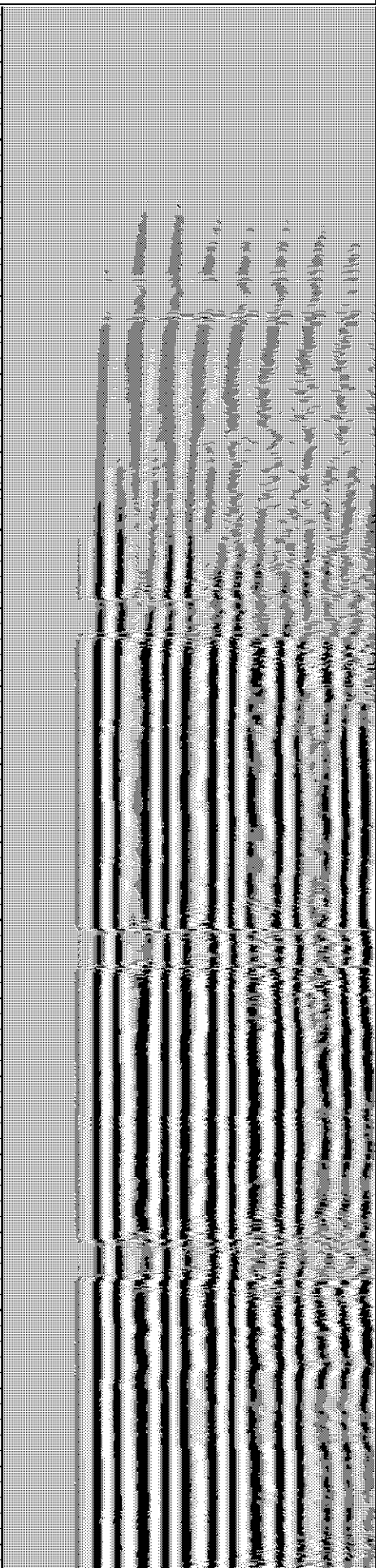
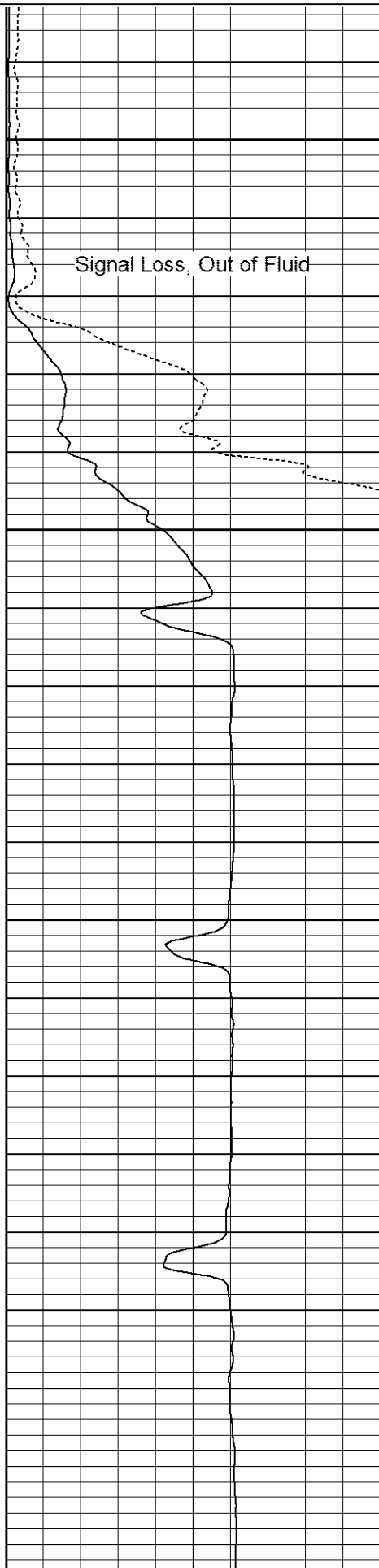
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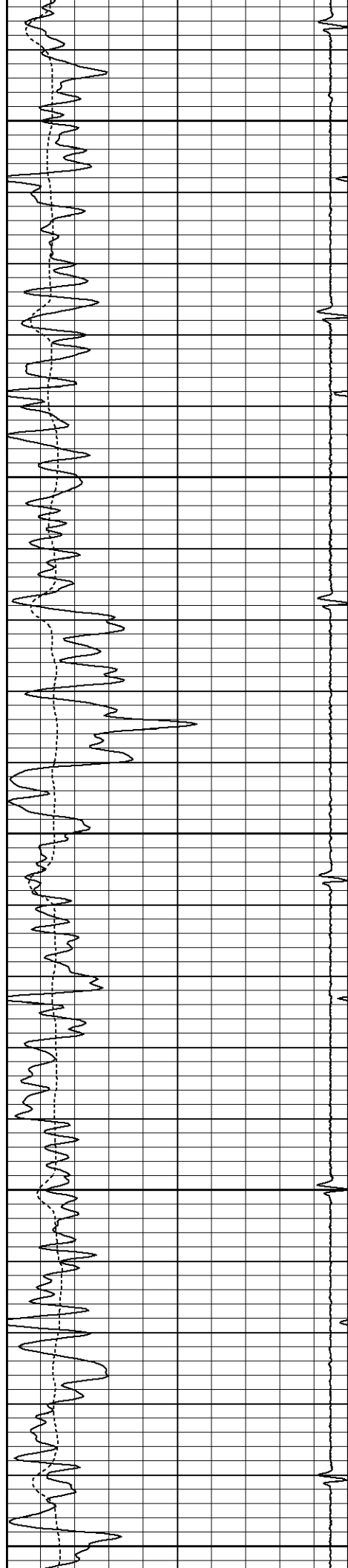
Signal Loss, Out of Fluid

100

150

200





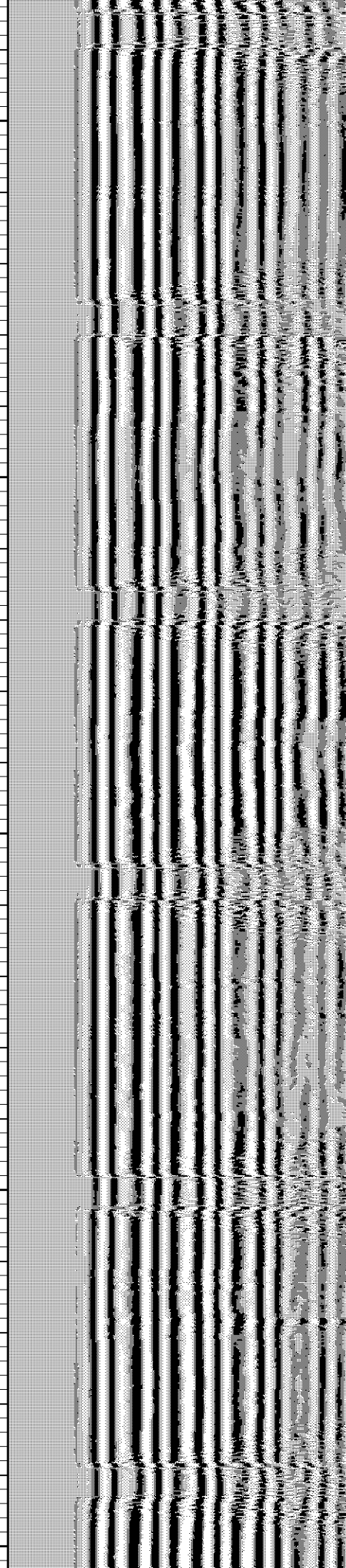
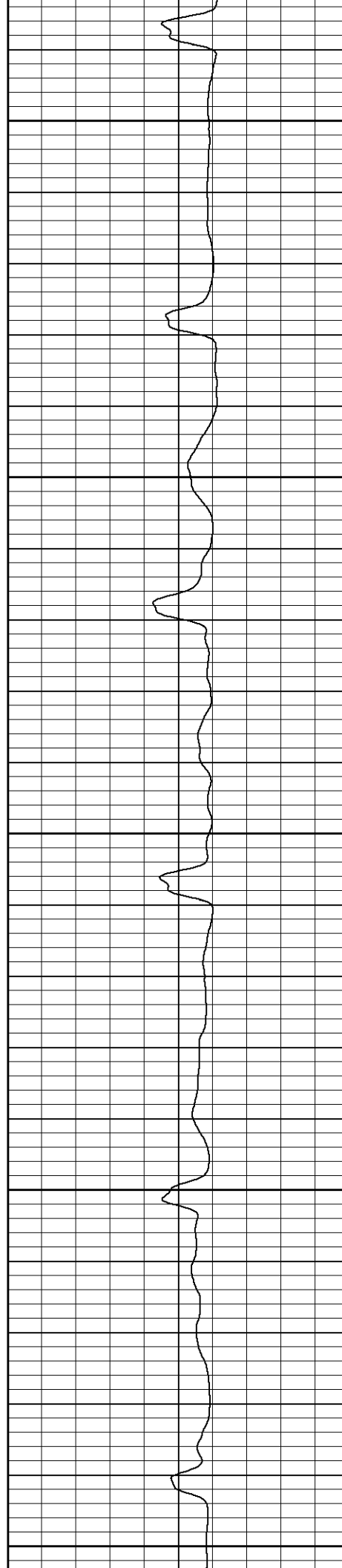
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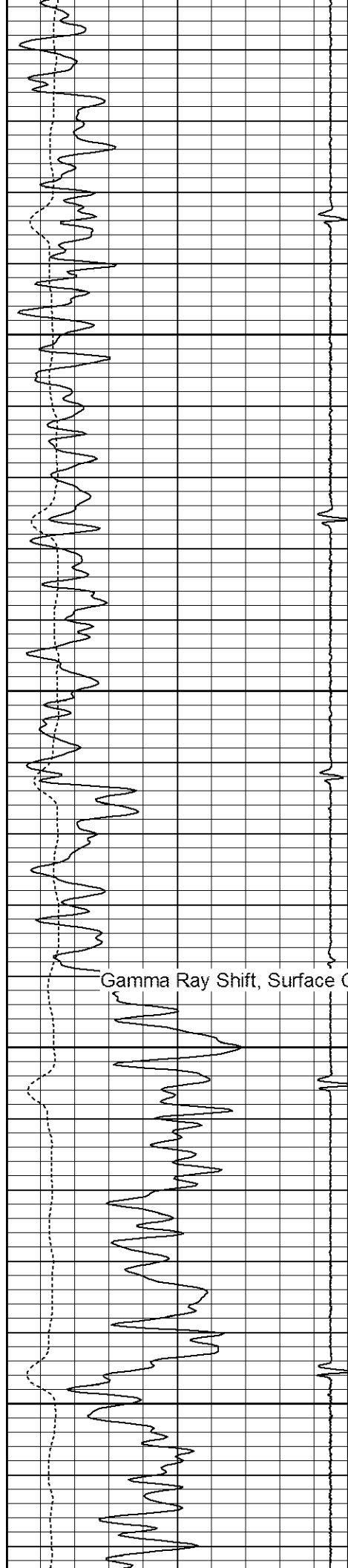
300

350

400

450





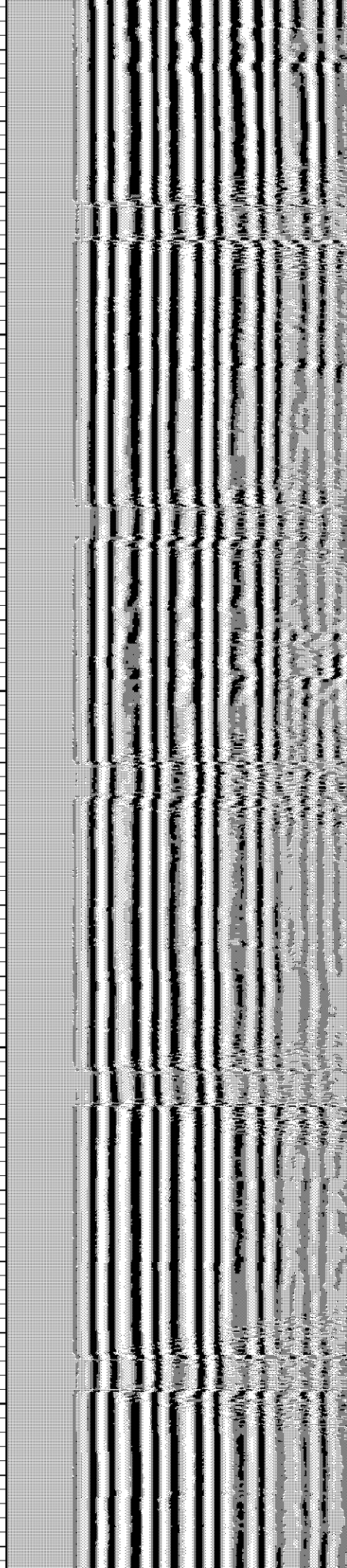
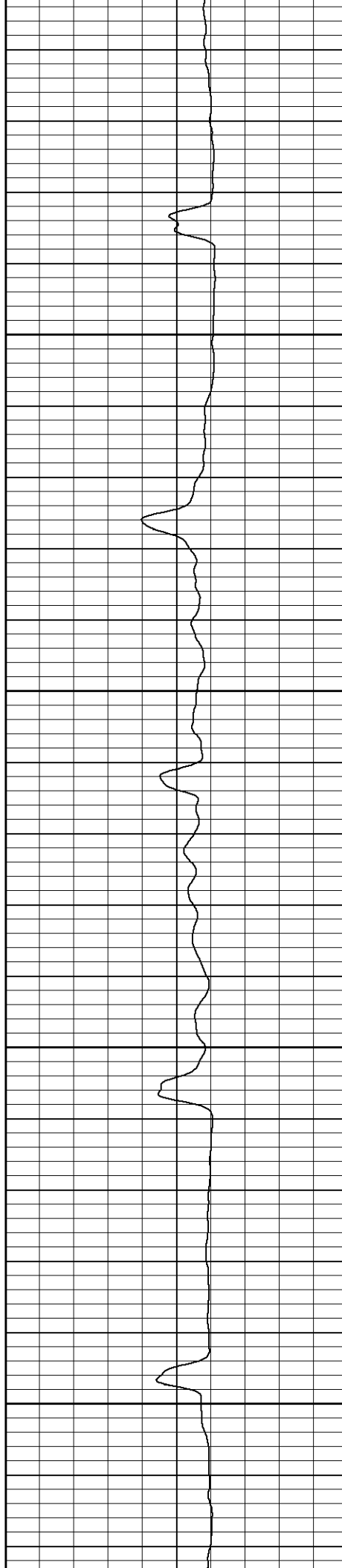
Gamma Ray Shift, Surface Casing

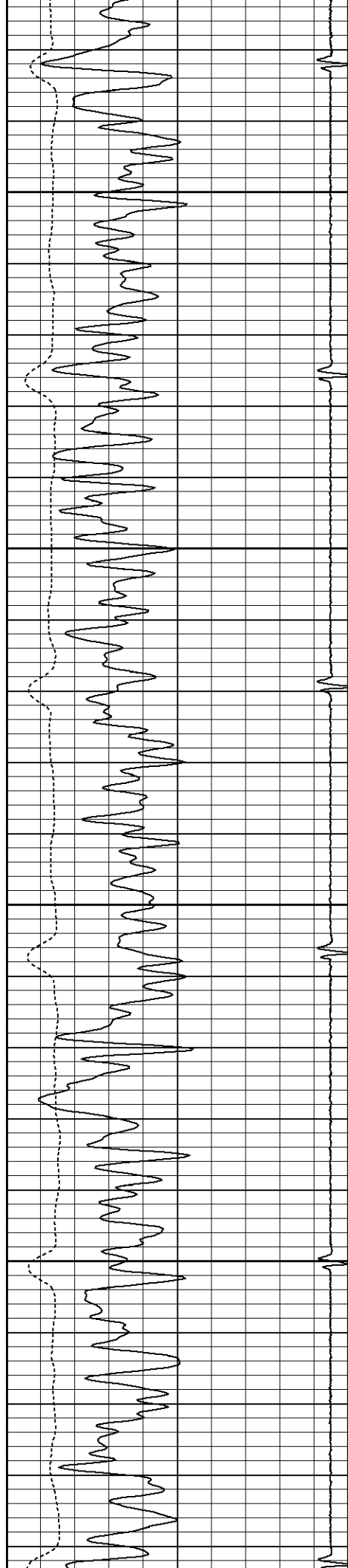
500

550

600

650



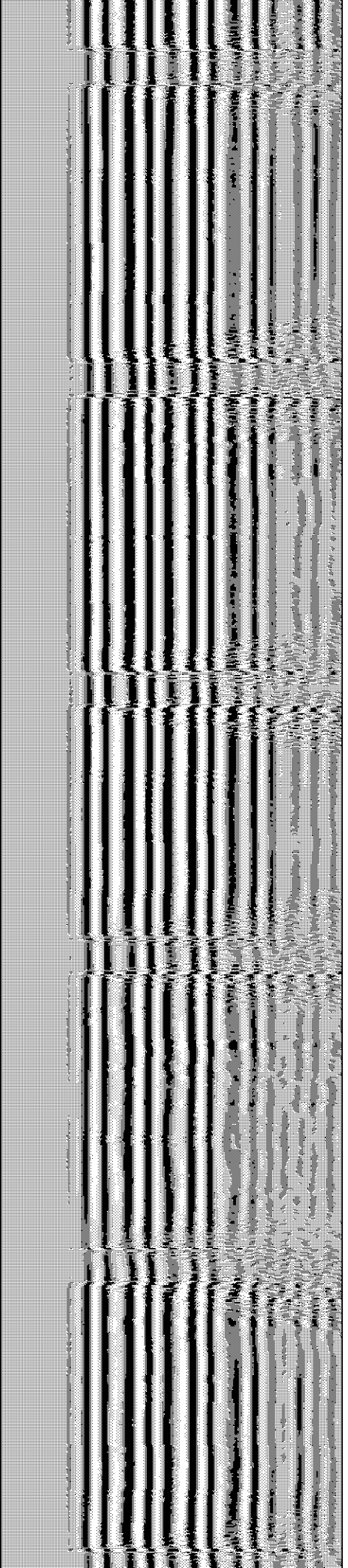
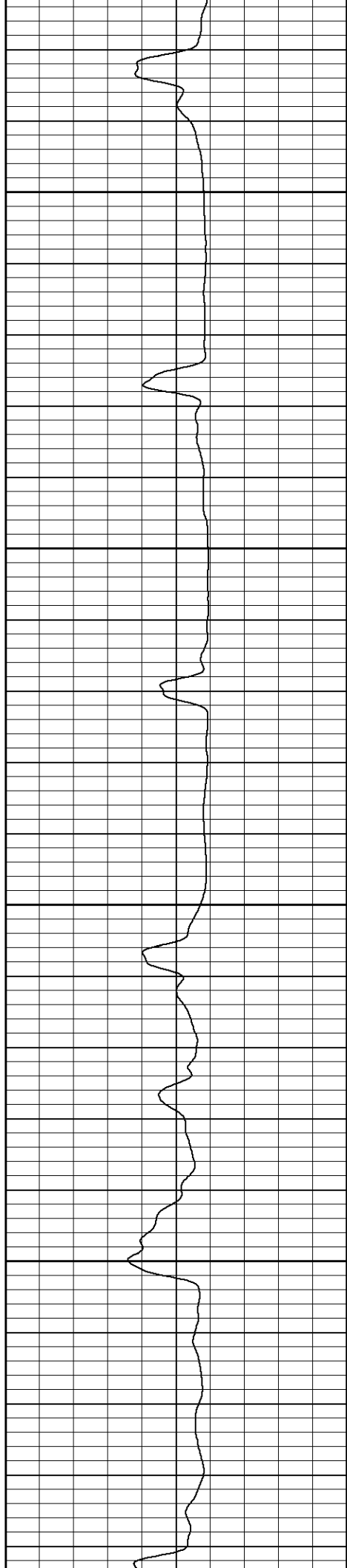


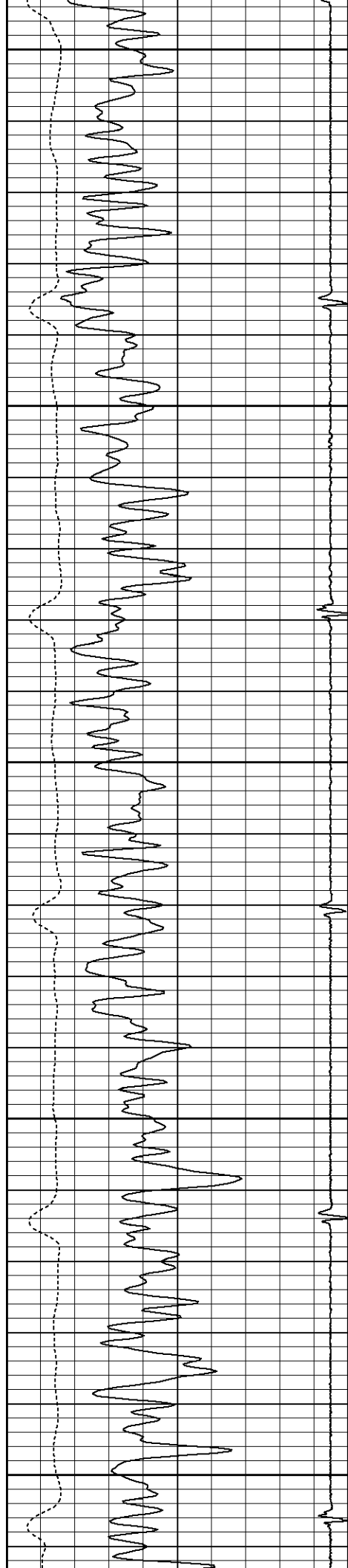
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750

800

850





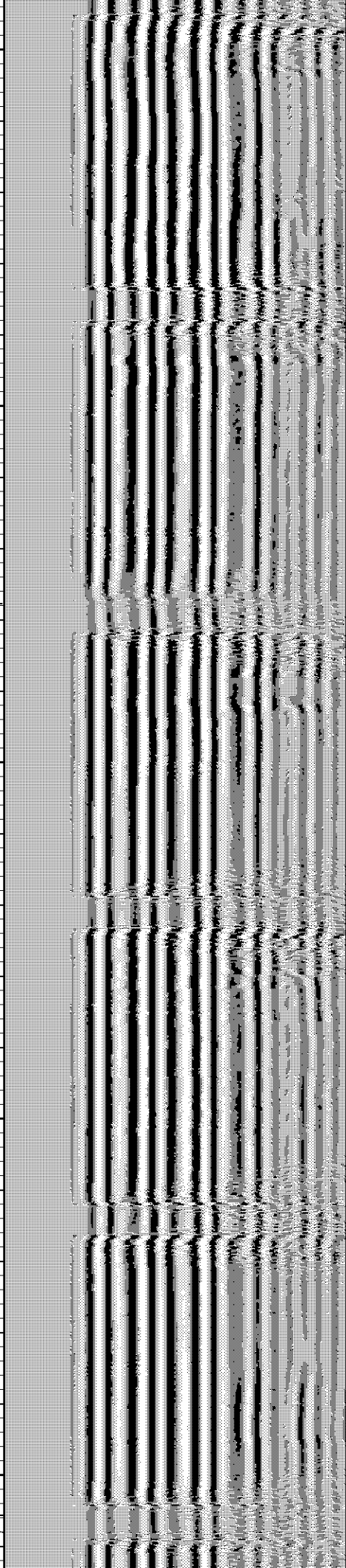
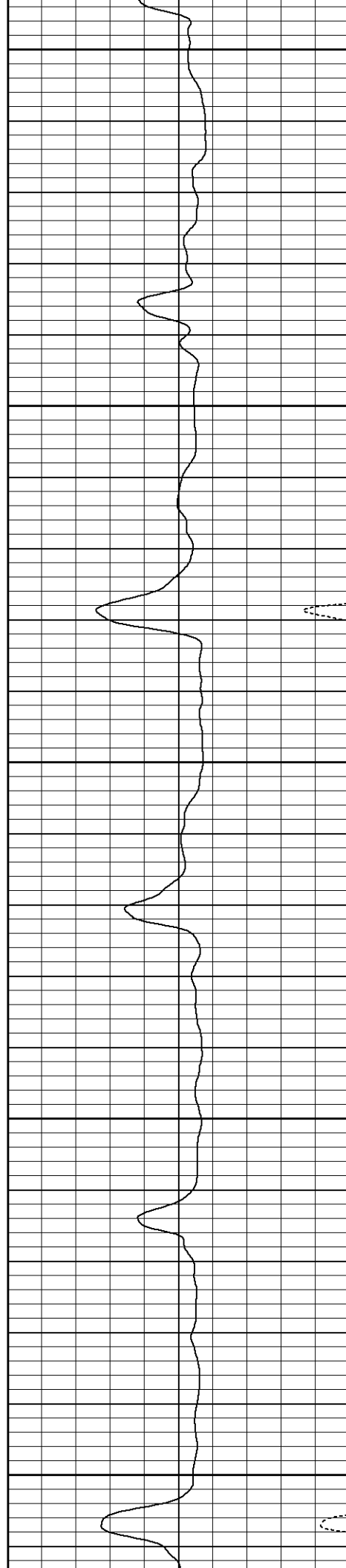
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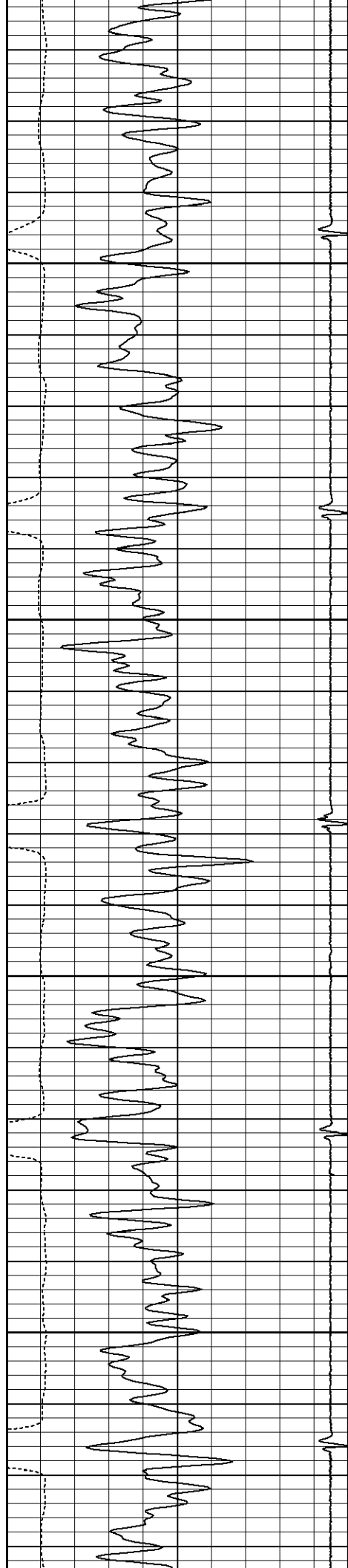
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1000

1050

1100



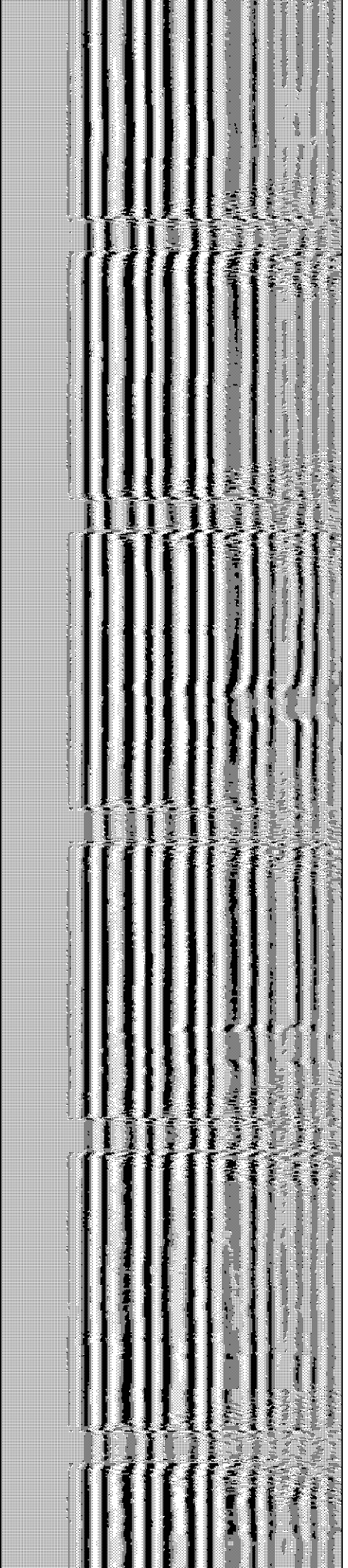
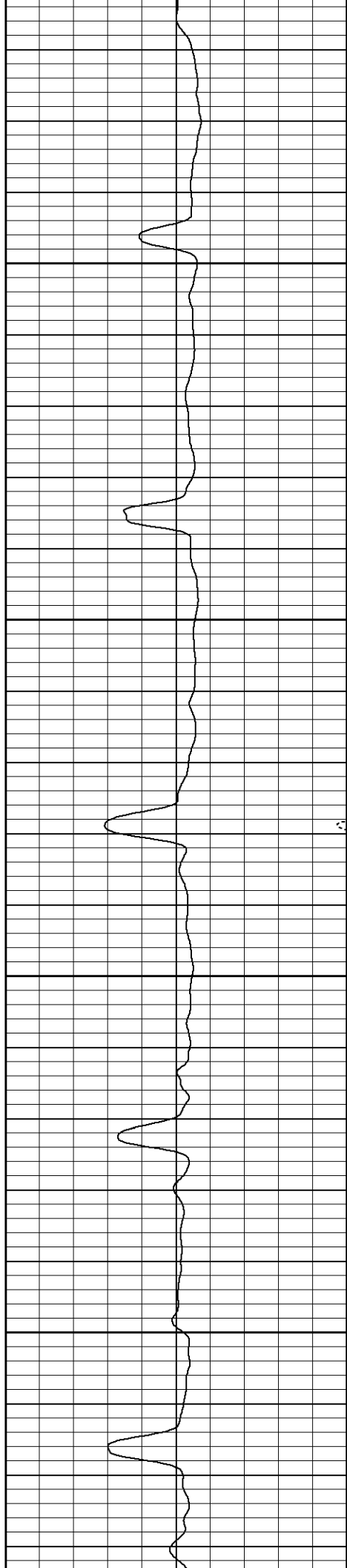


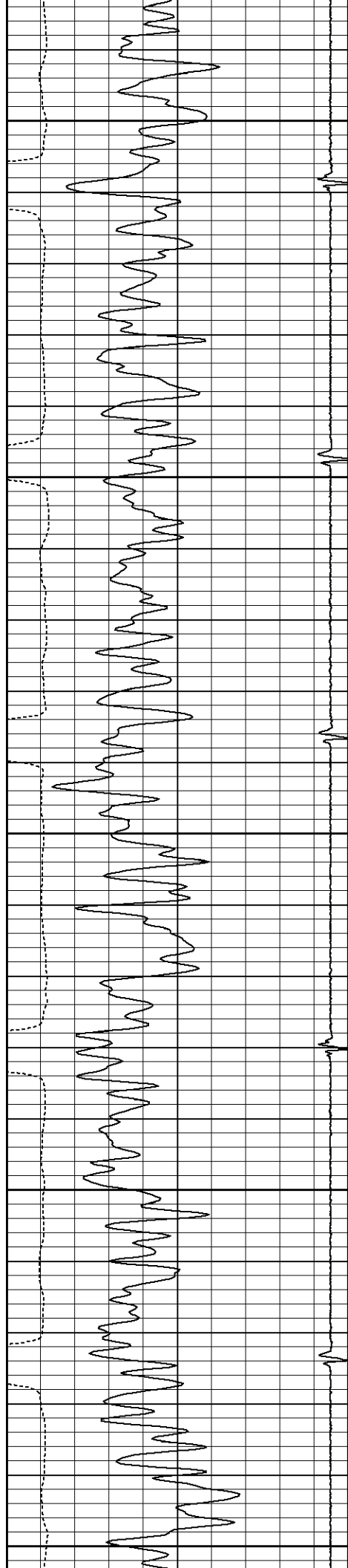
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1200

1250

1300





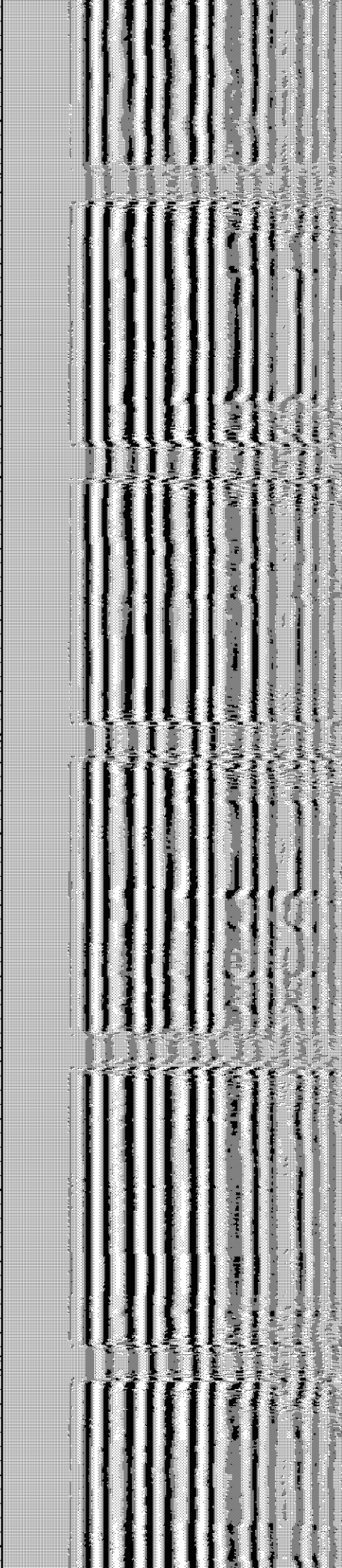
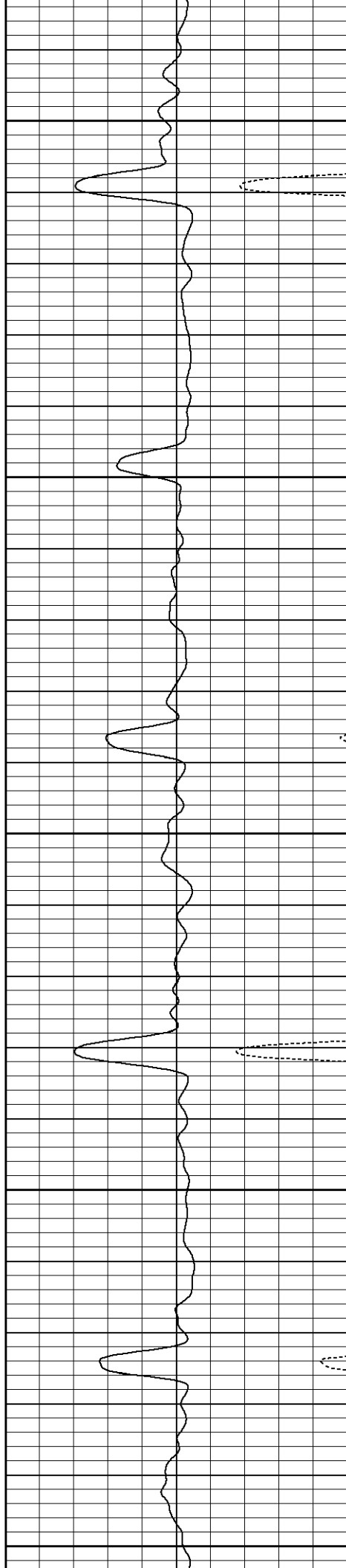
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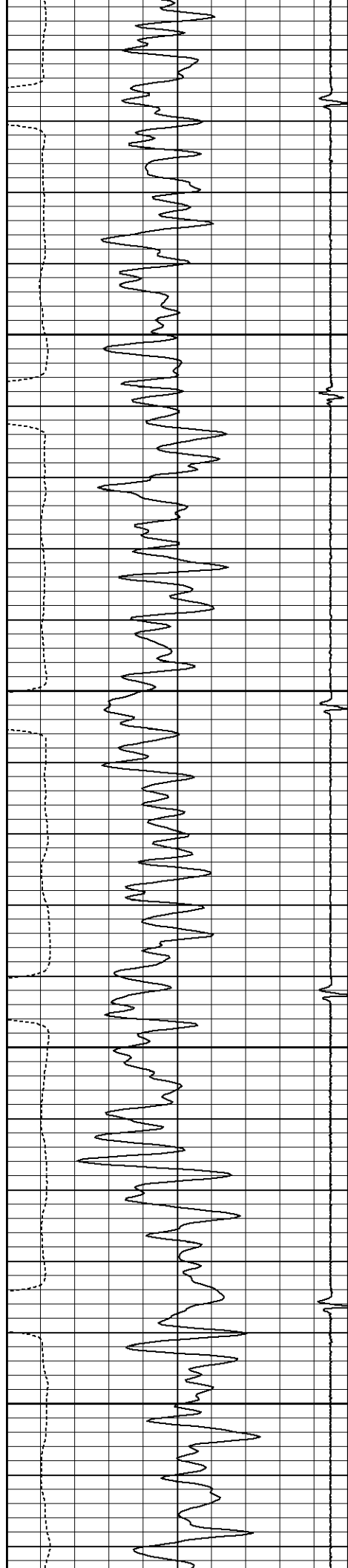
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1550



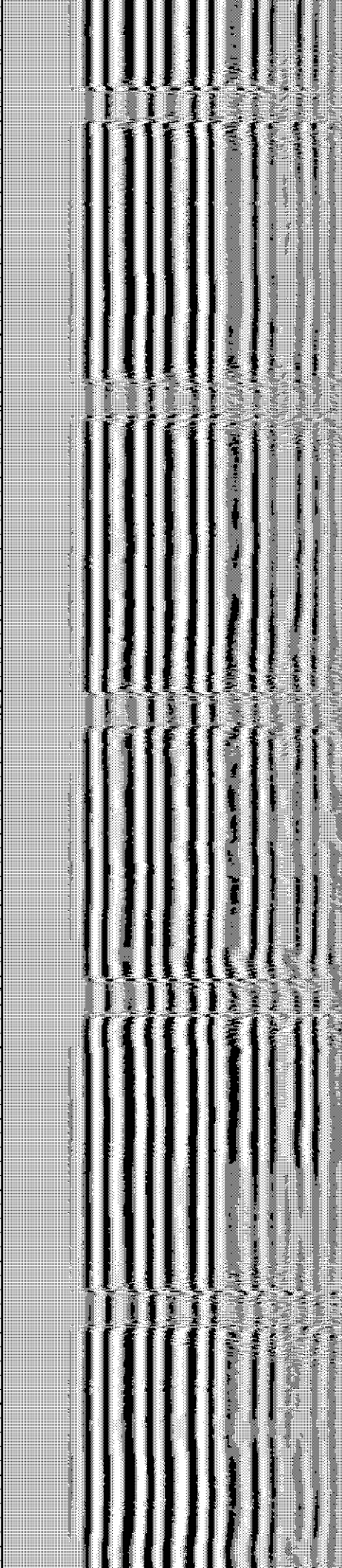
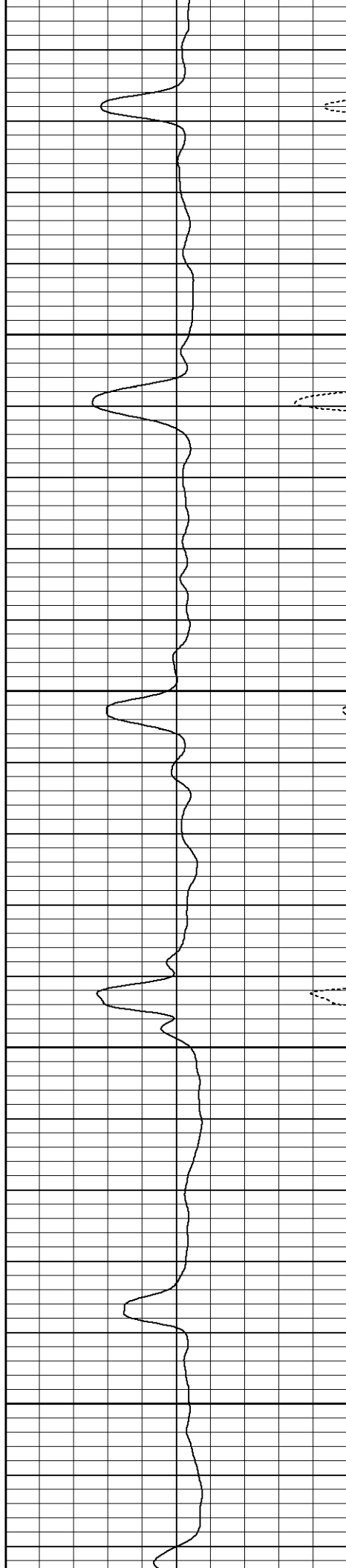


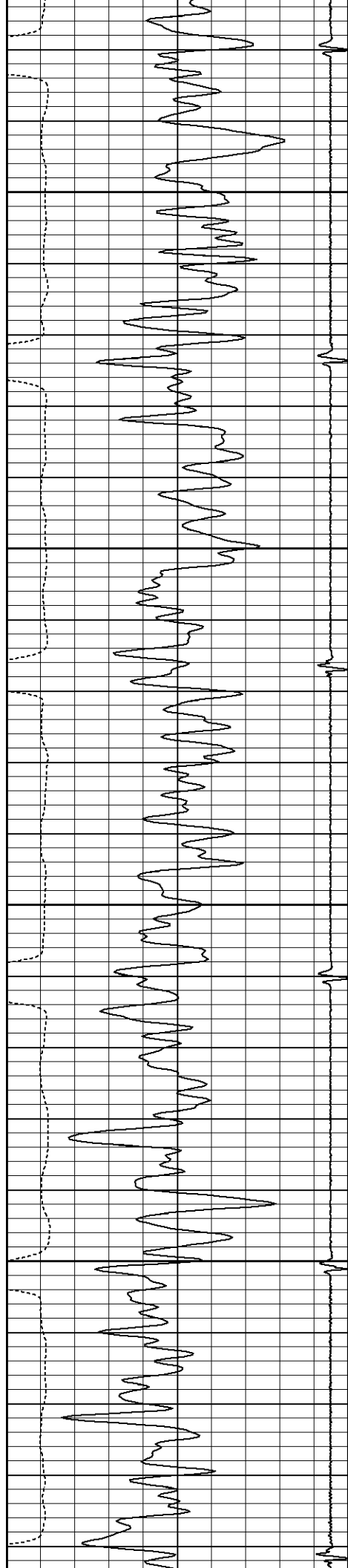
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1650

1700

1750



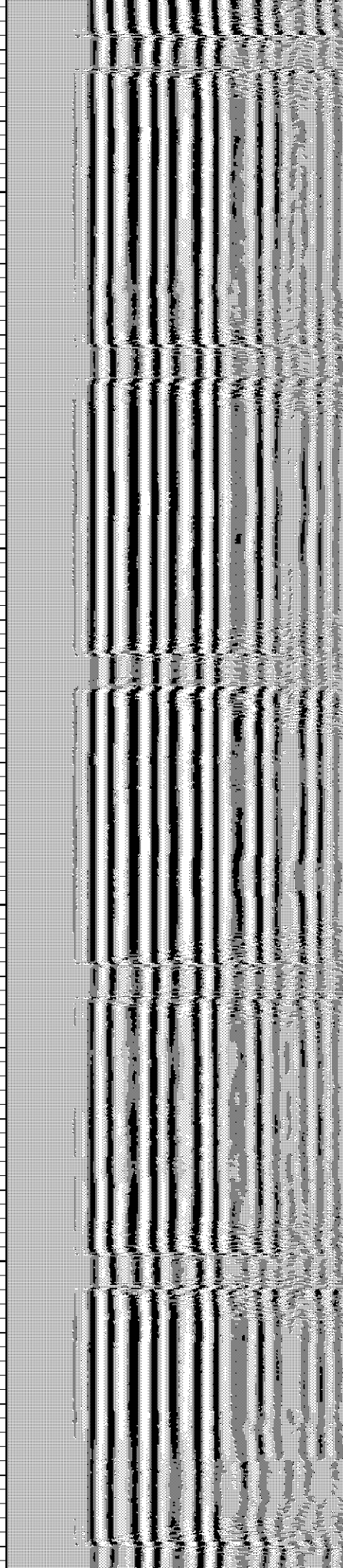
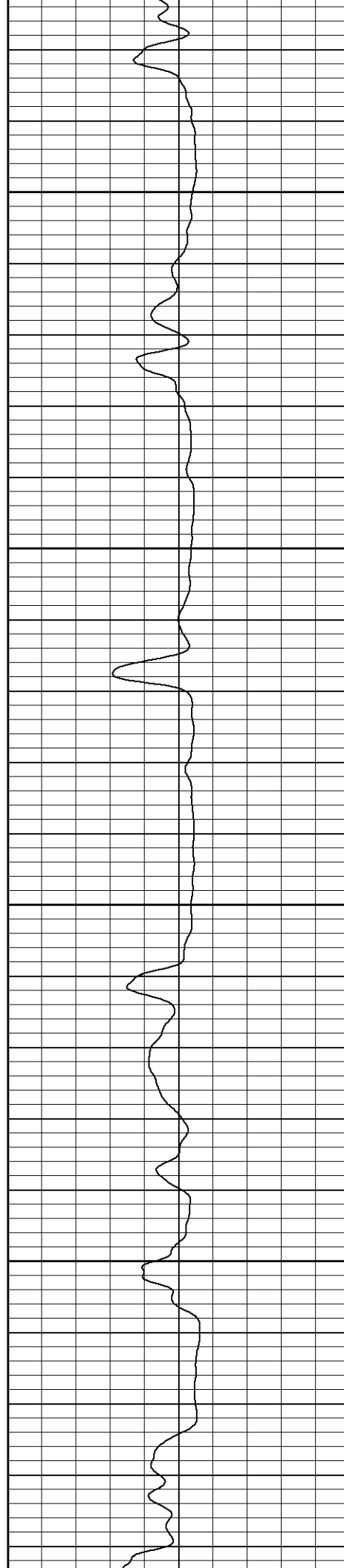


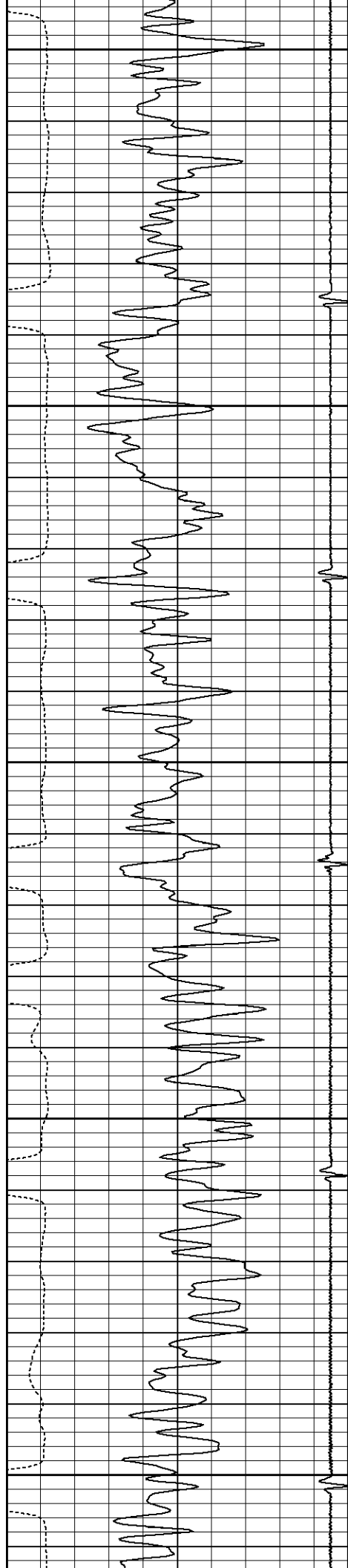
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1950





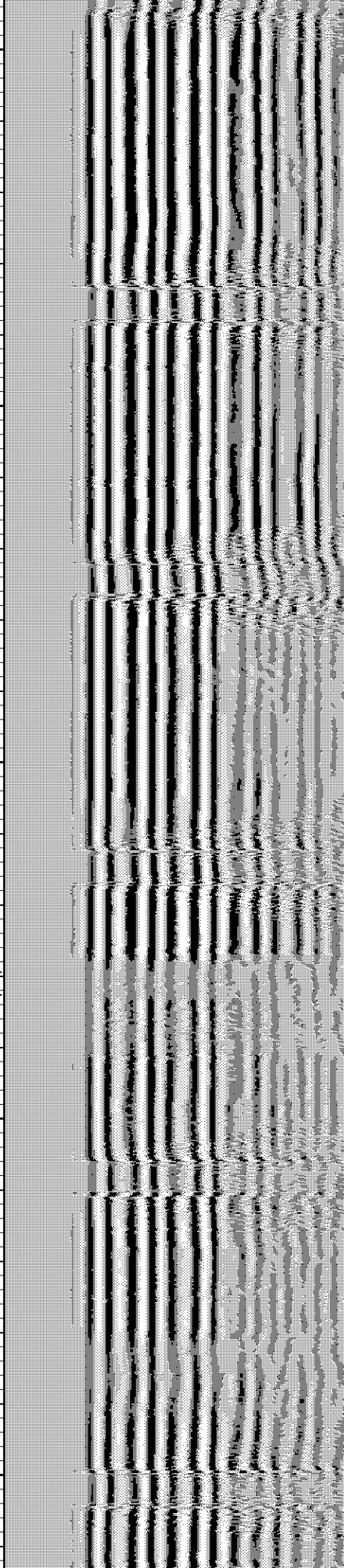
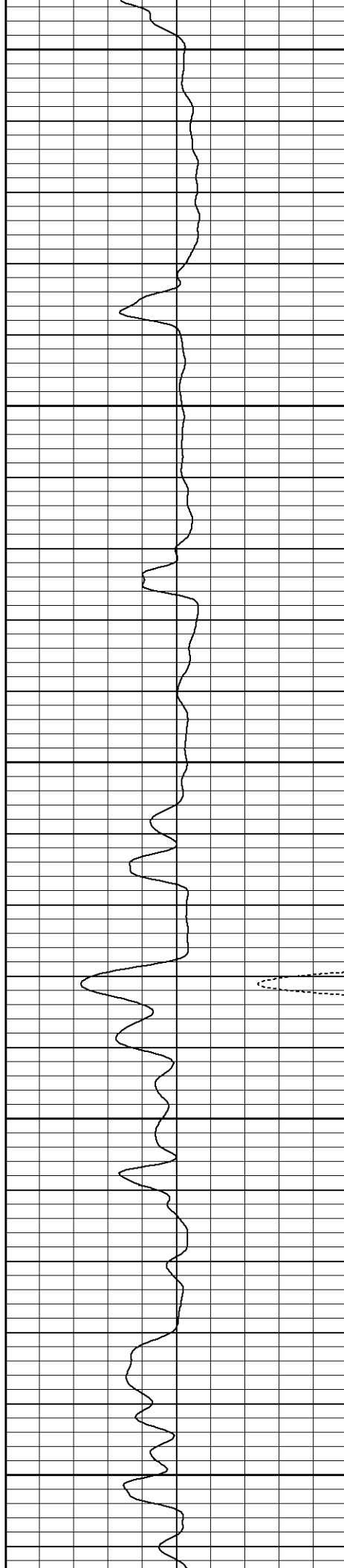
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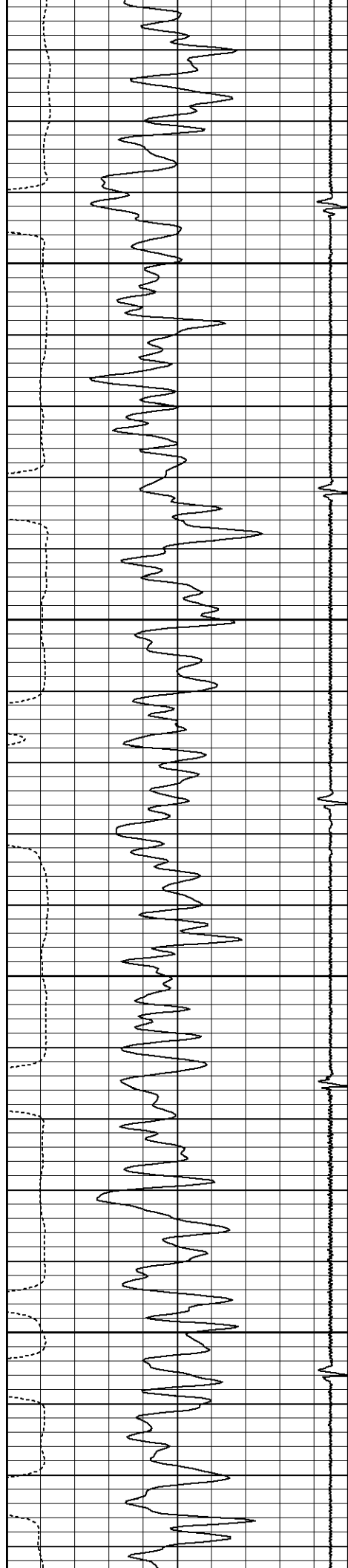
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2100

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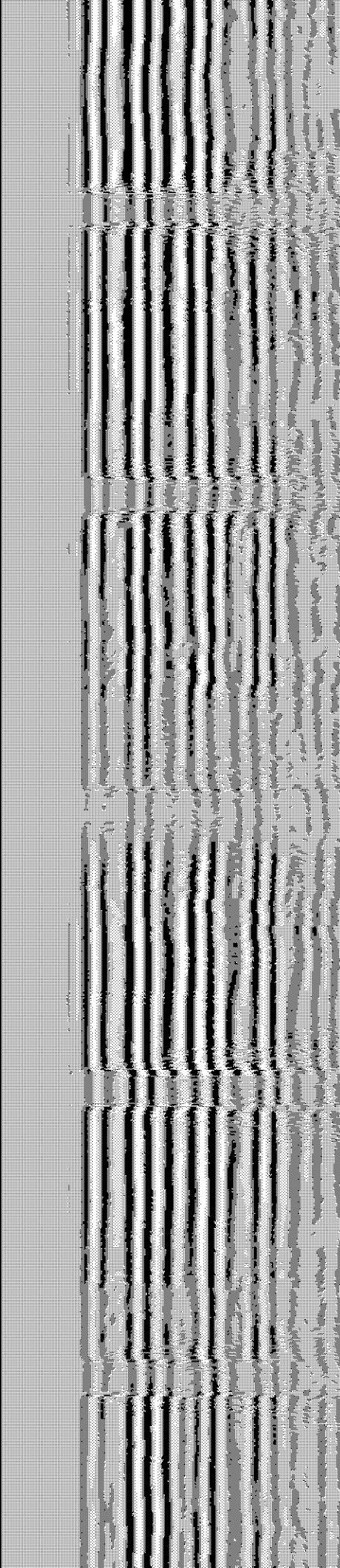
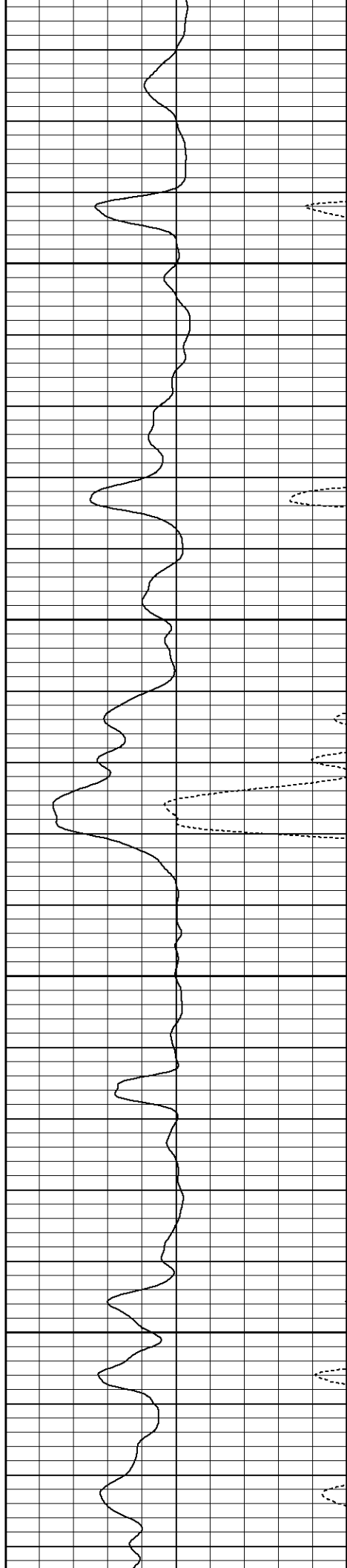


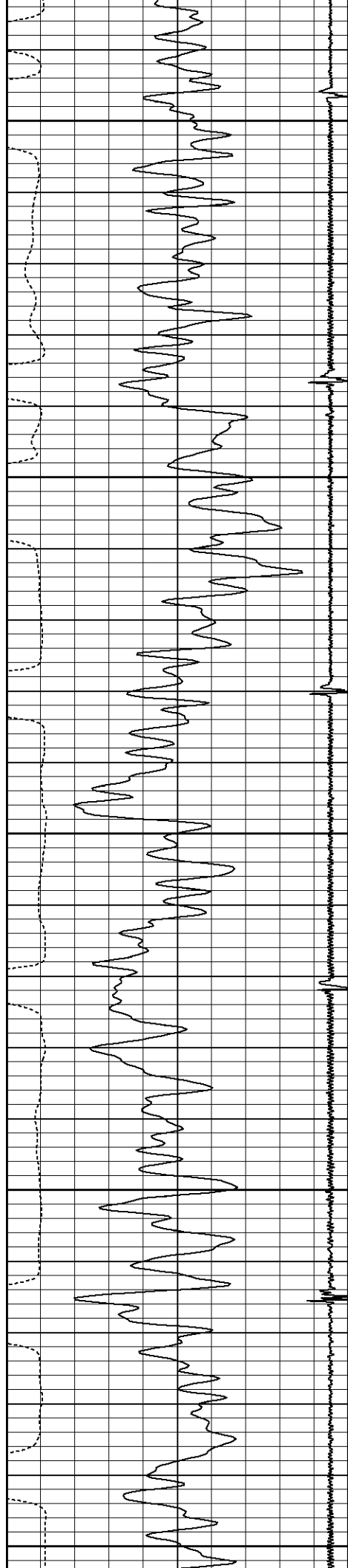
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2400





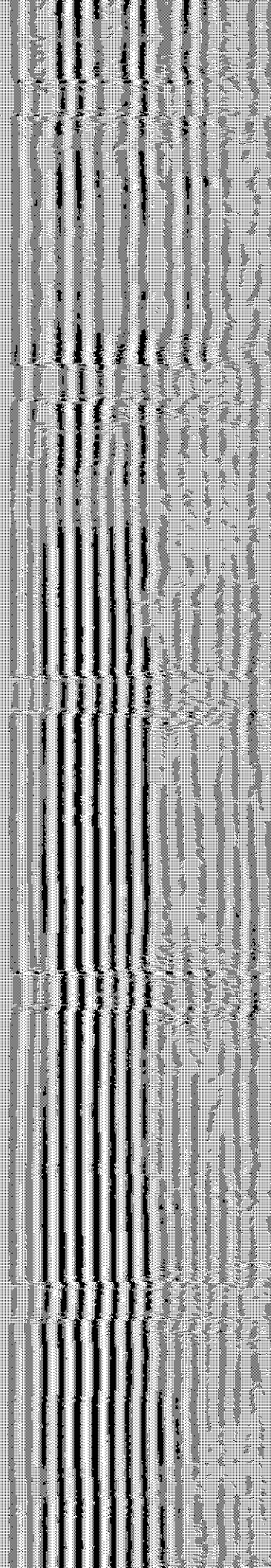
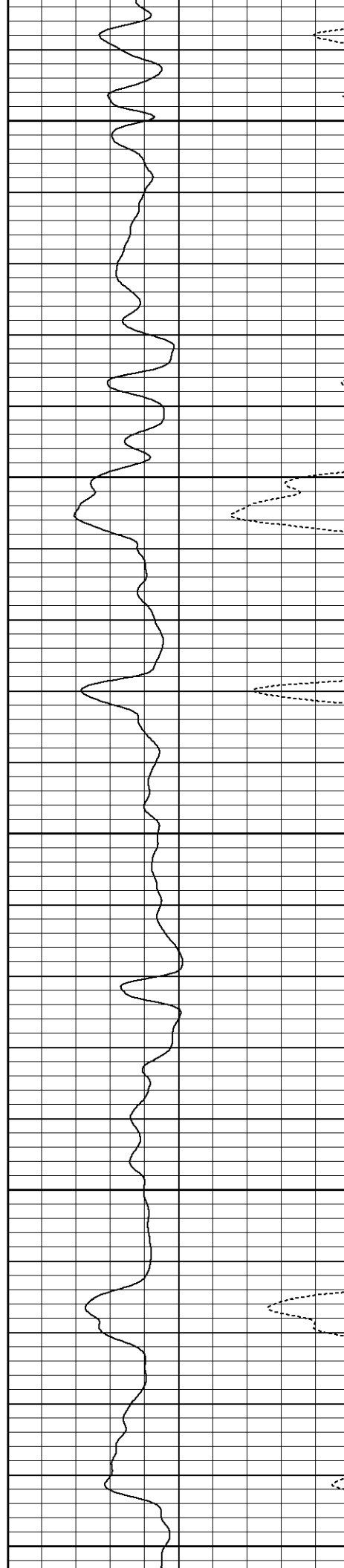
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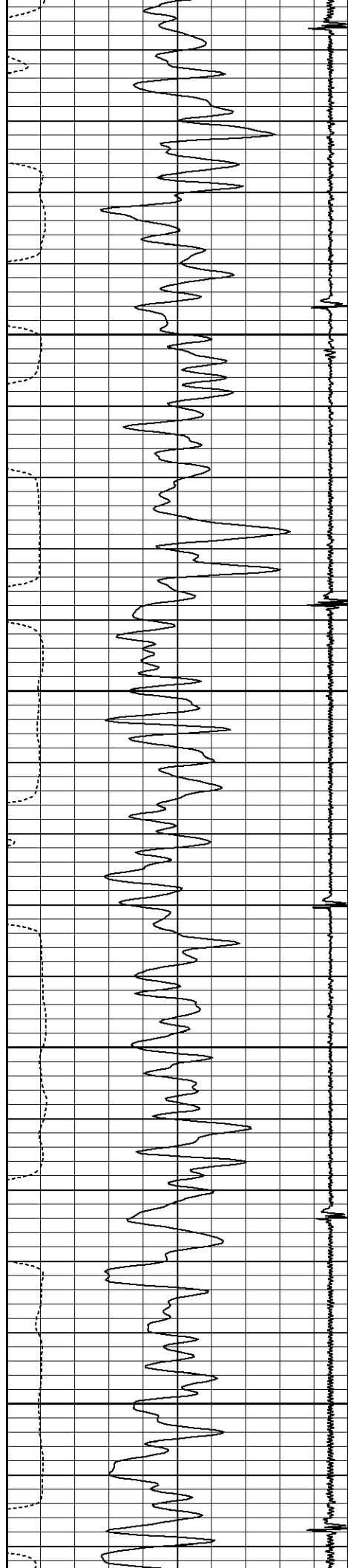
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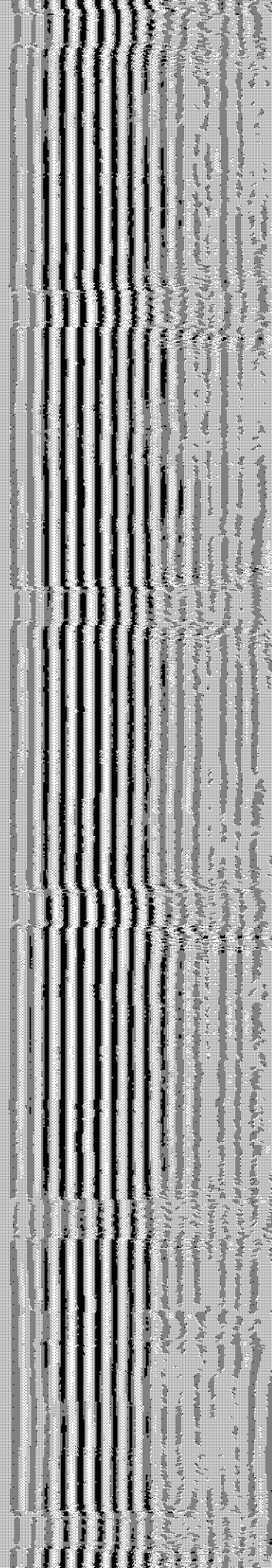
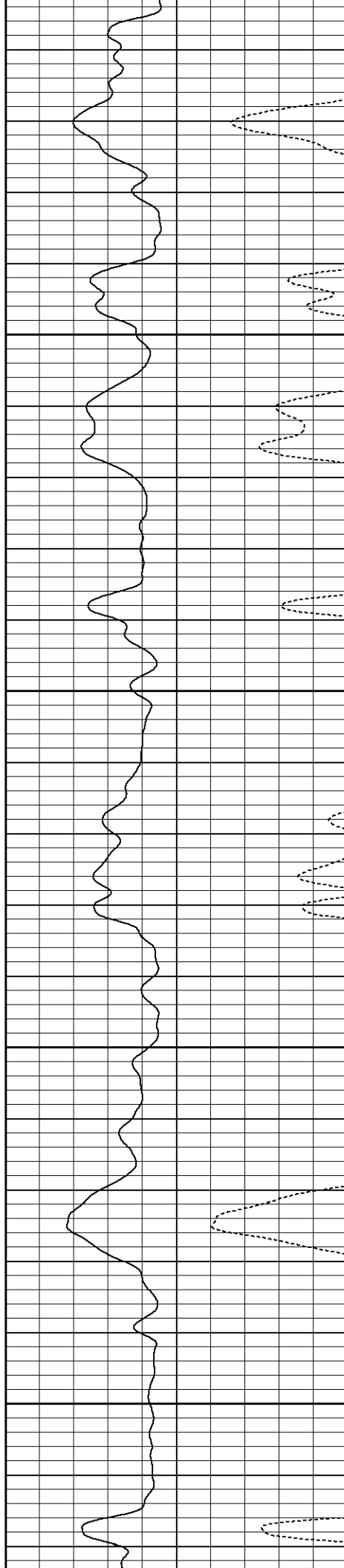


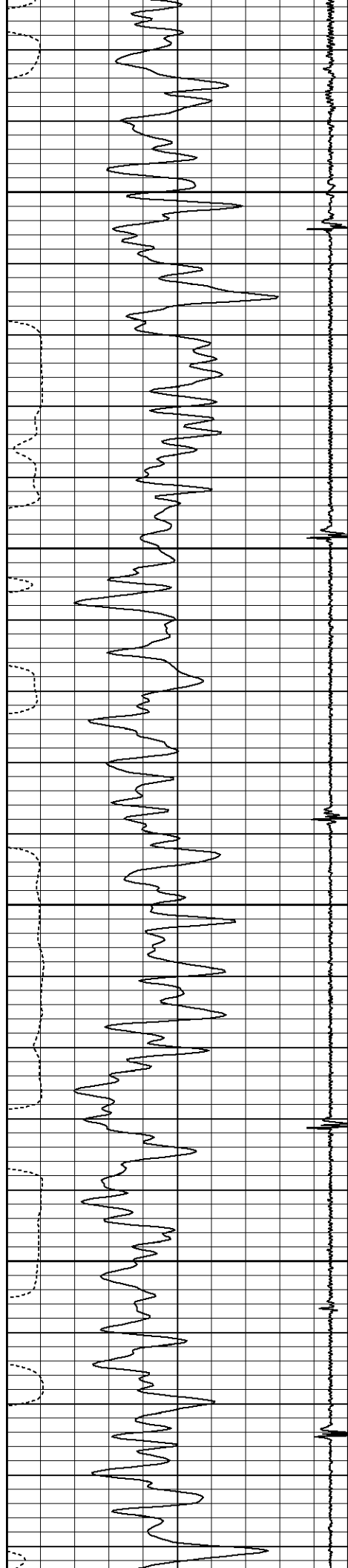
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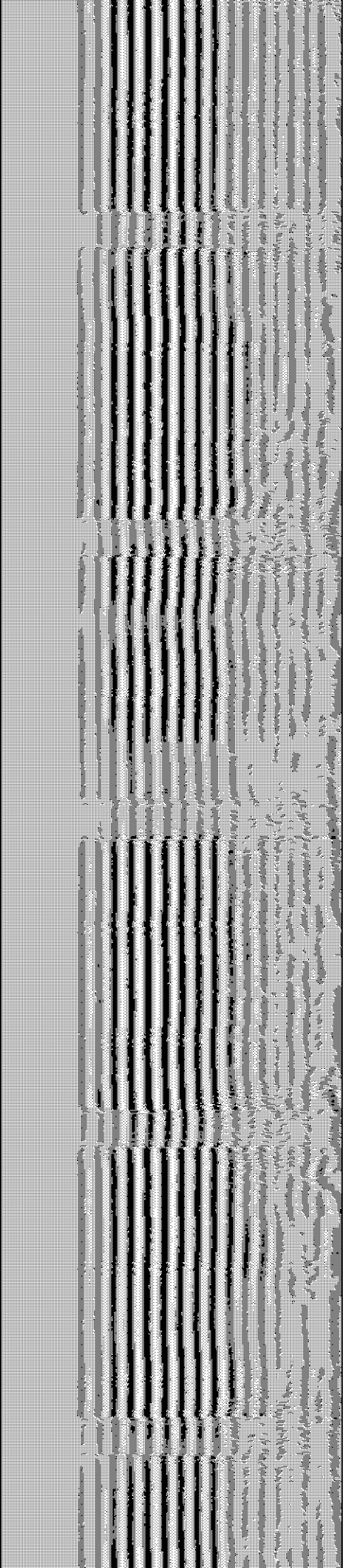
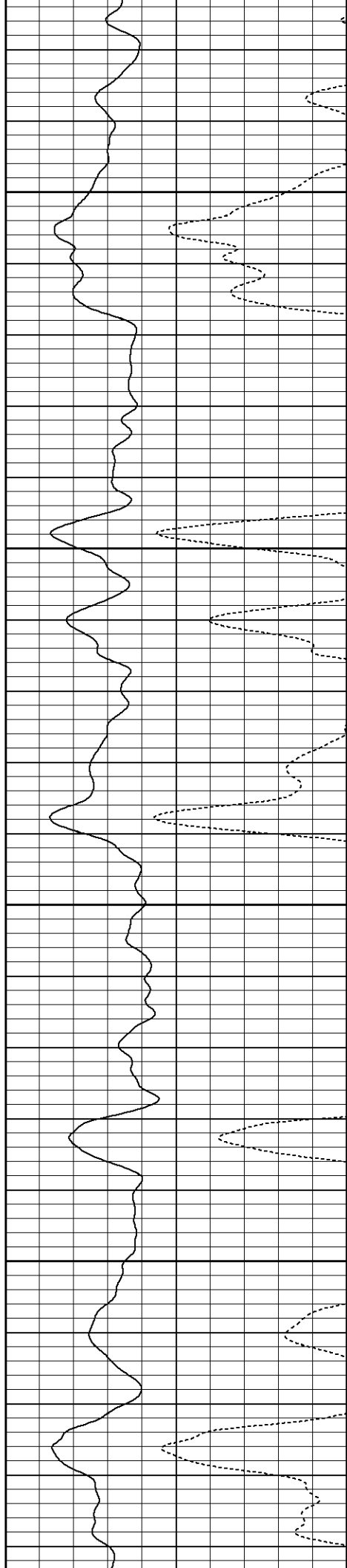


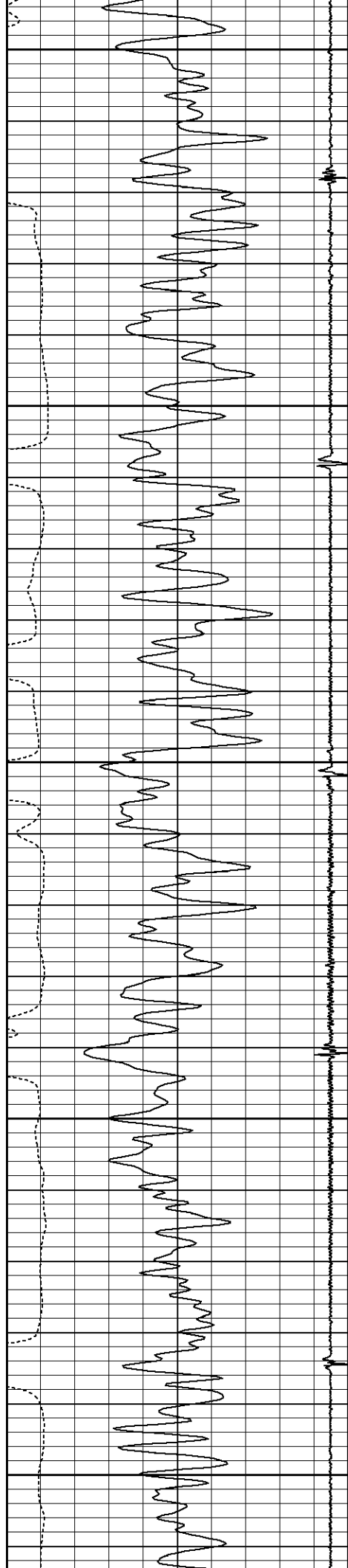
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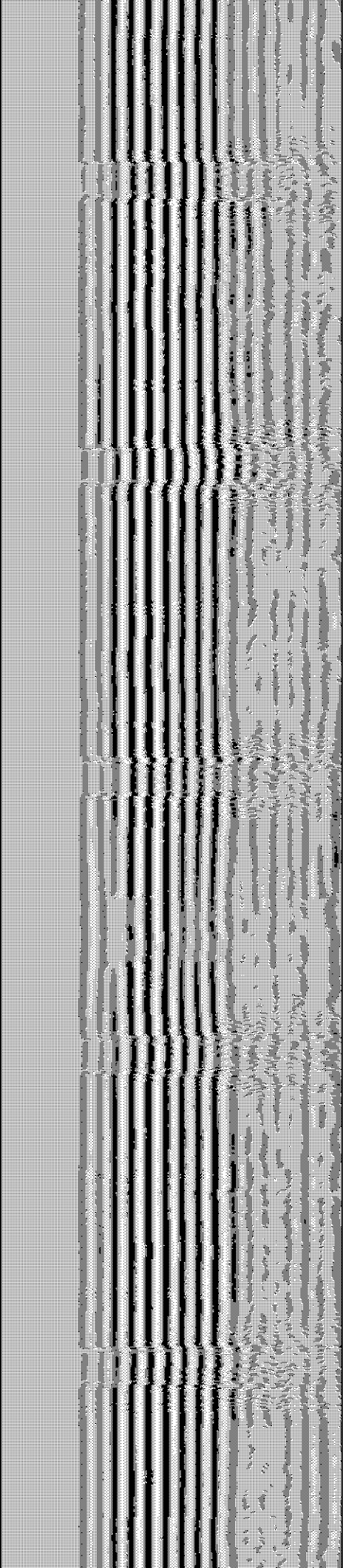
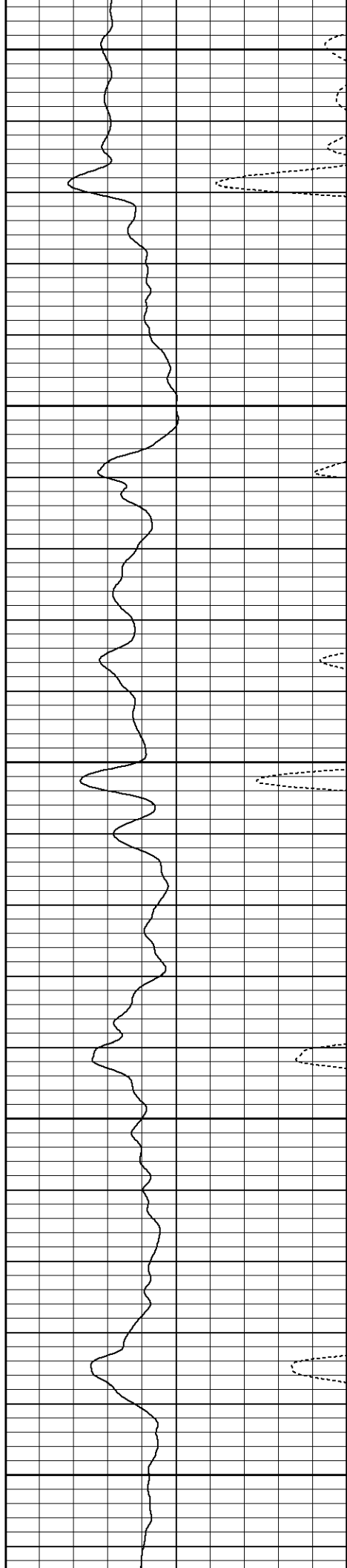
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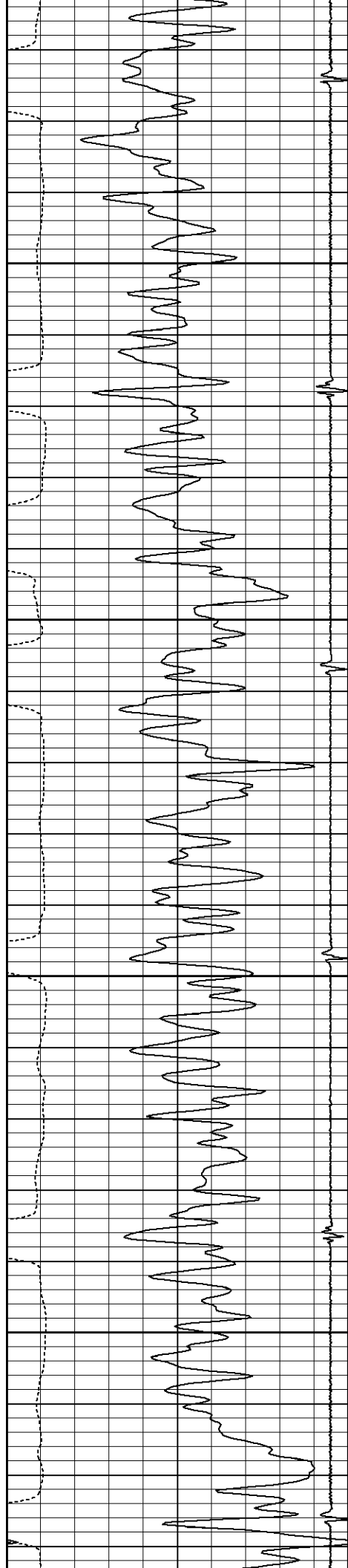
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3300



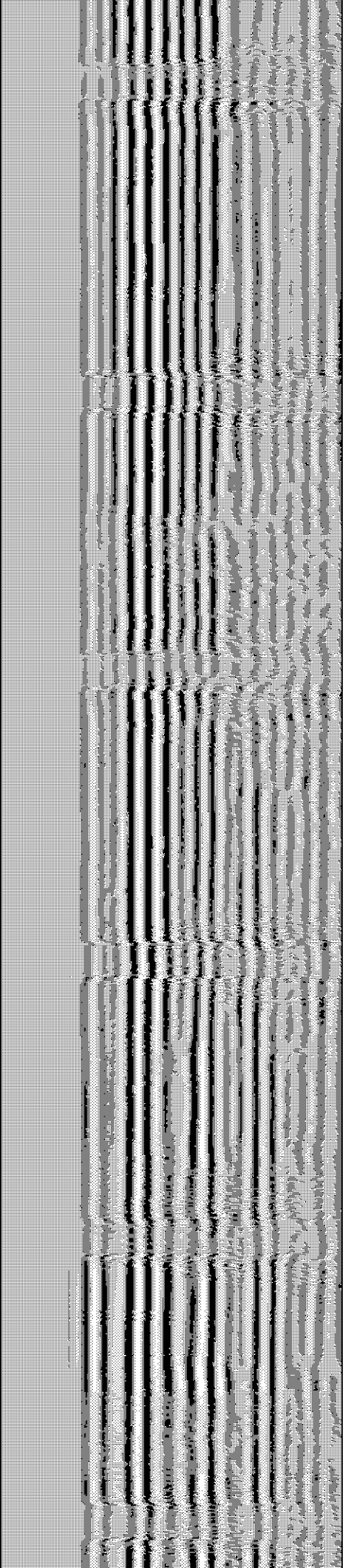
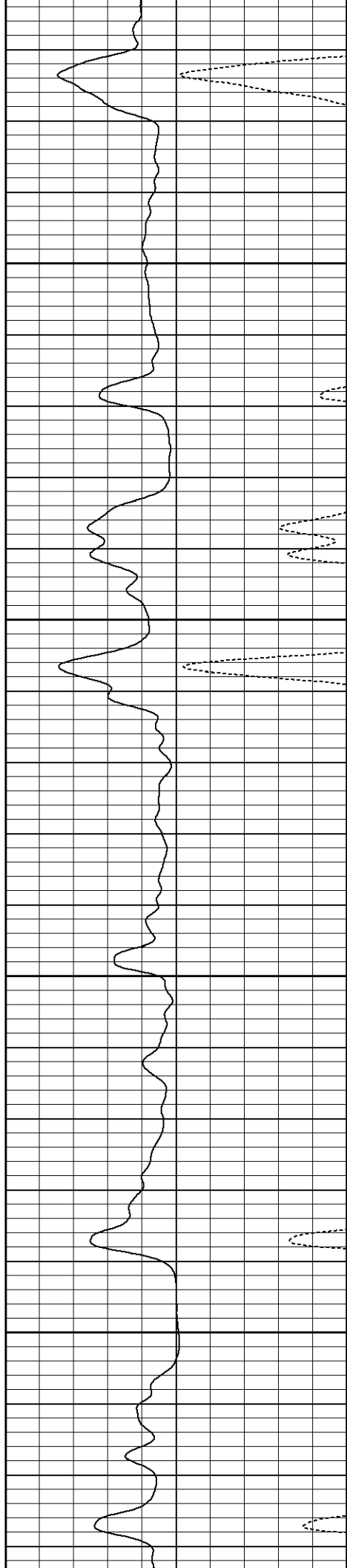


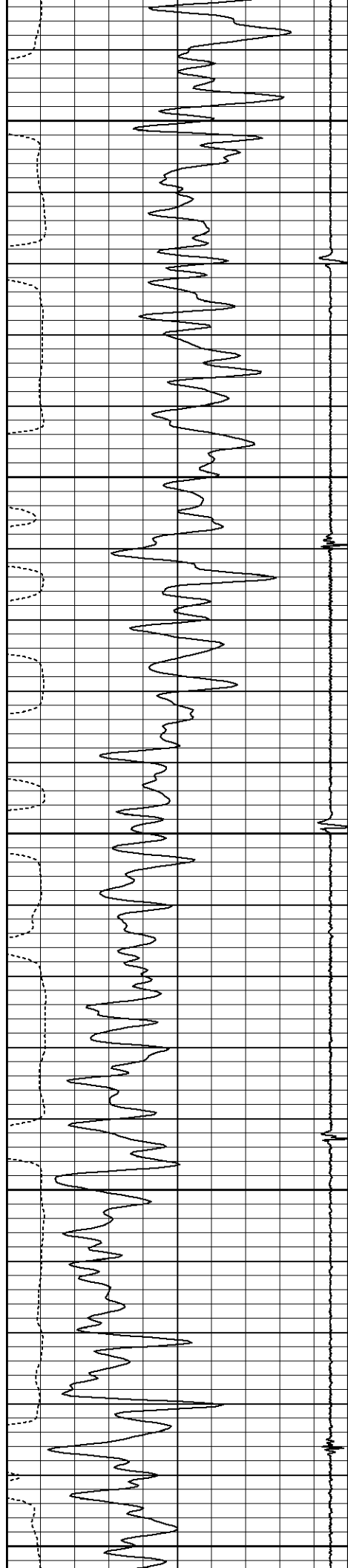
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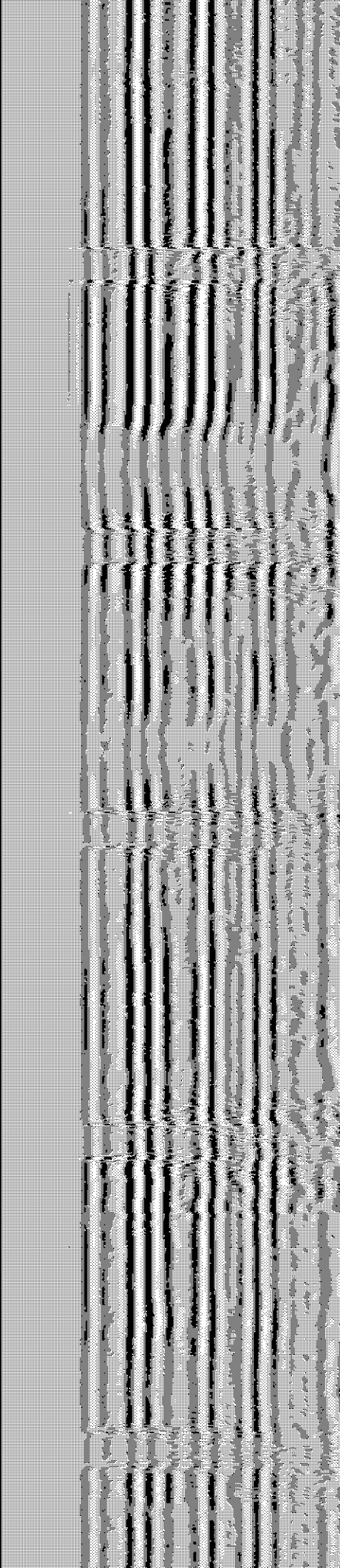
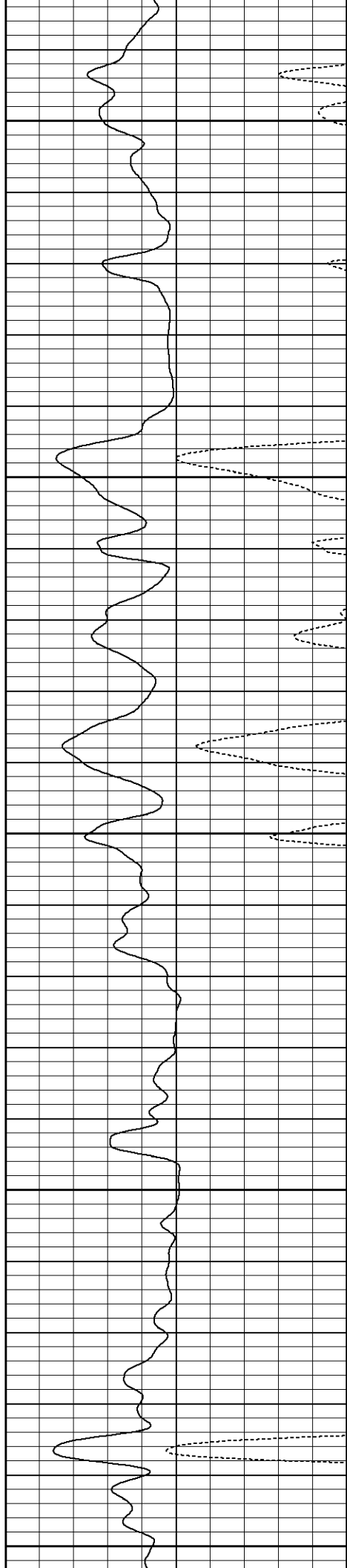
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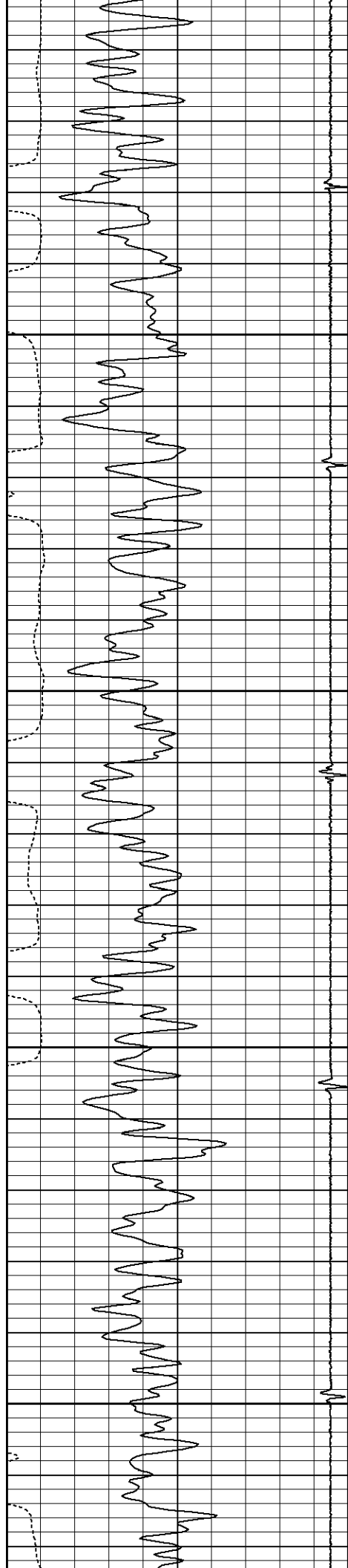
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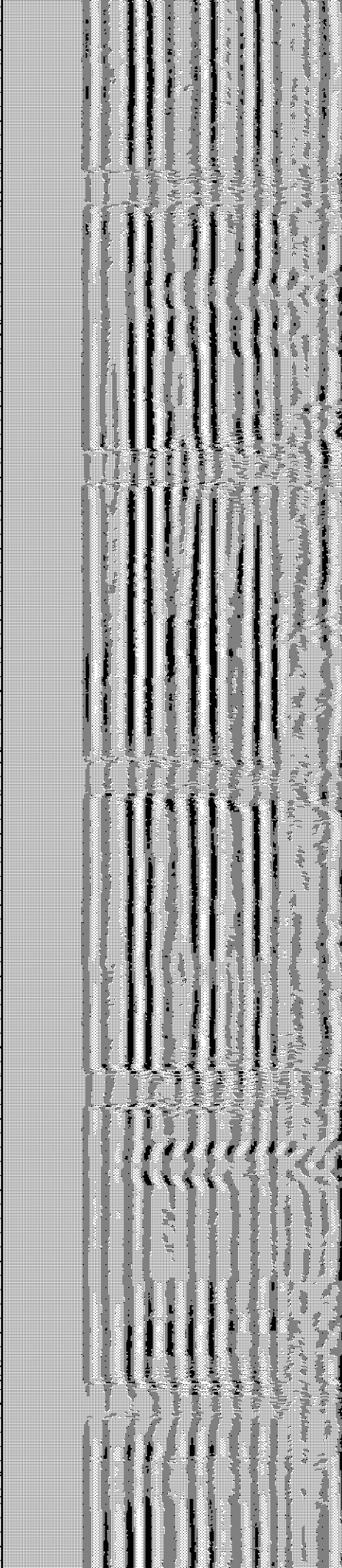
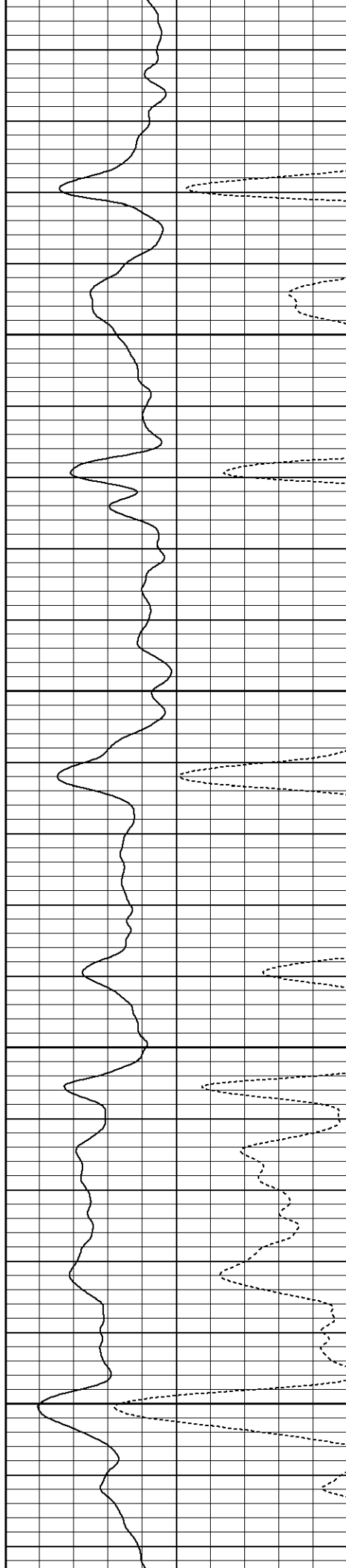


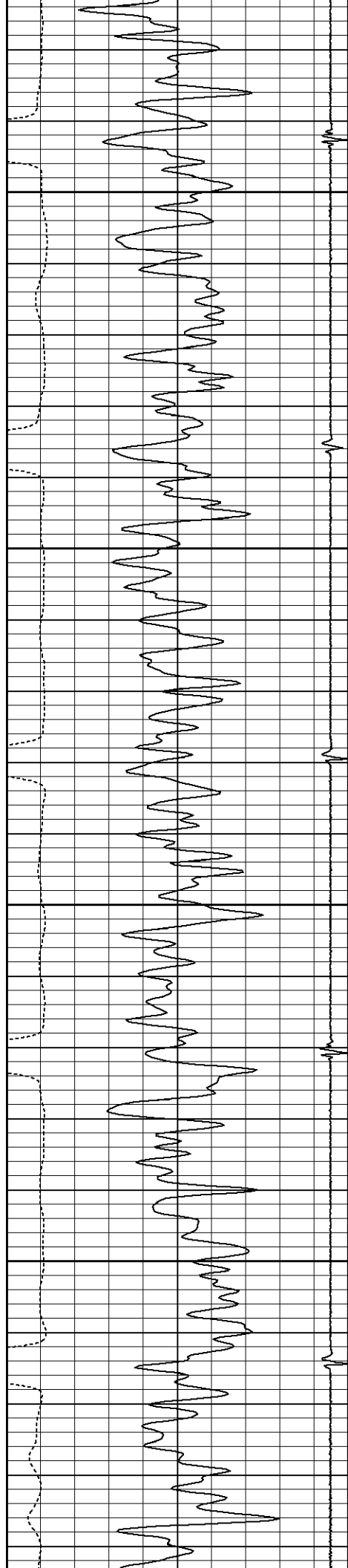
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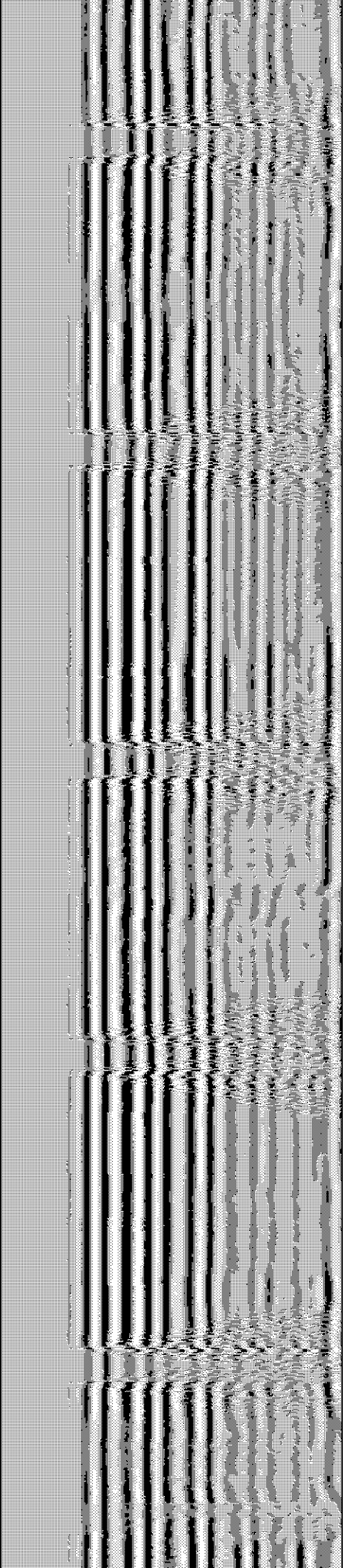
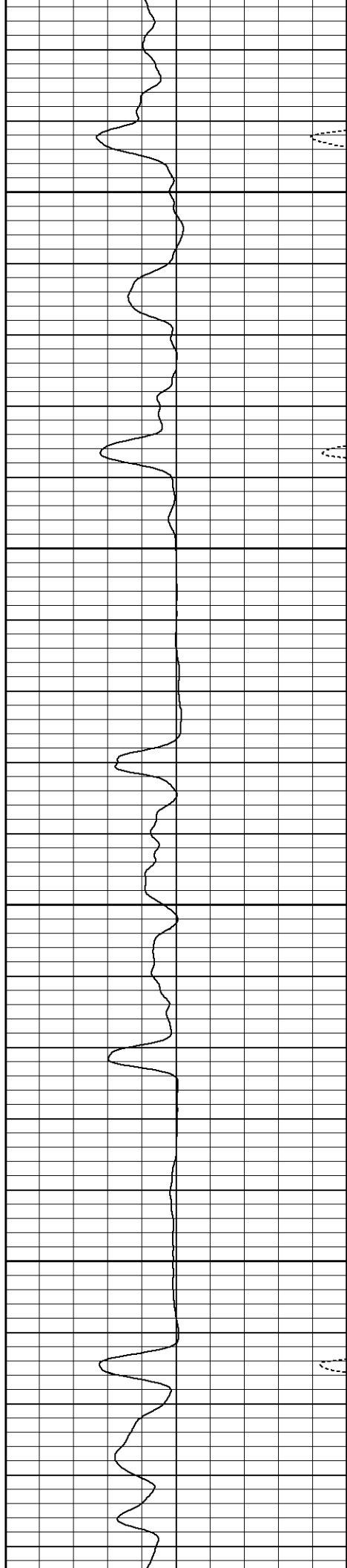


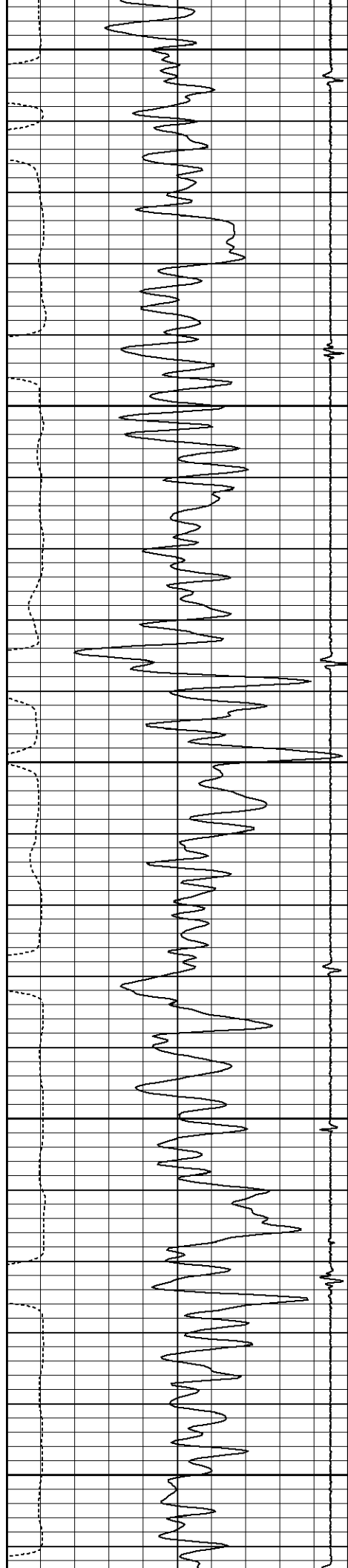
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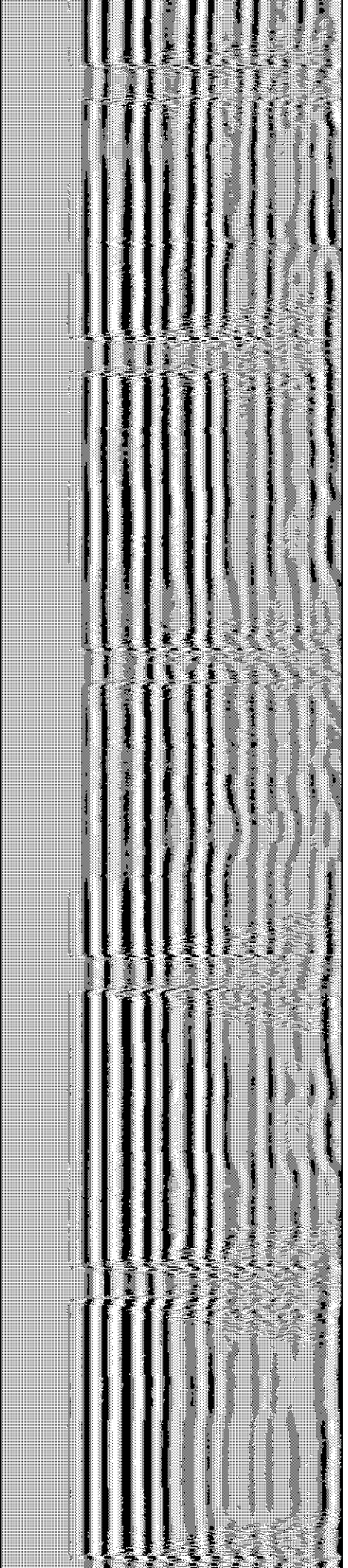
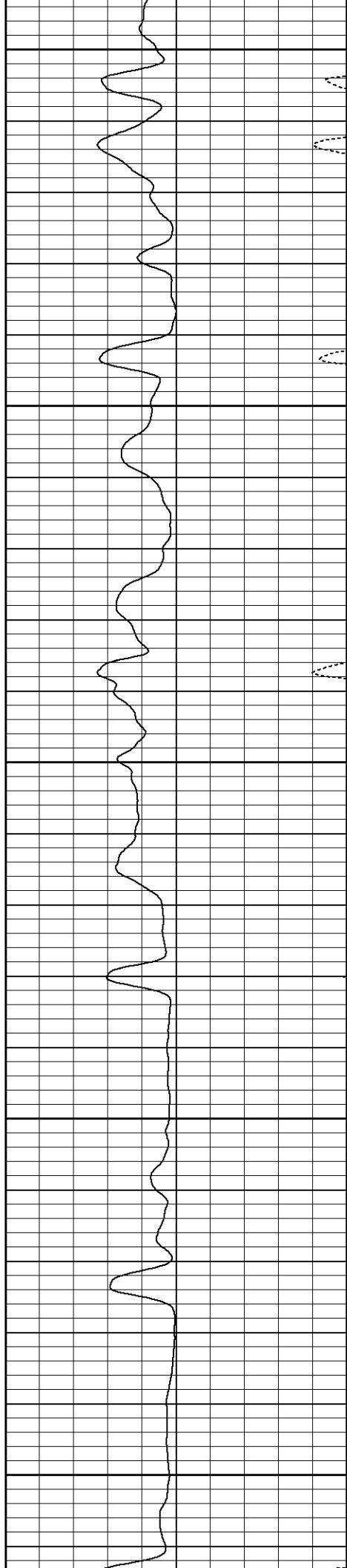
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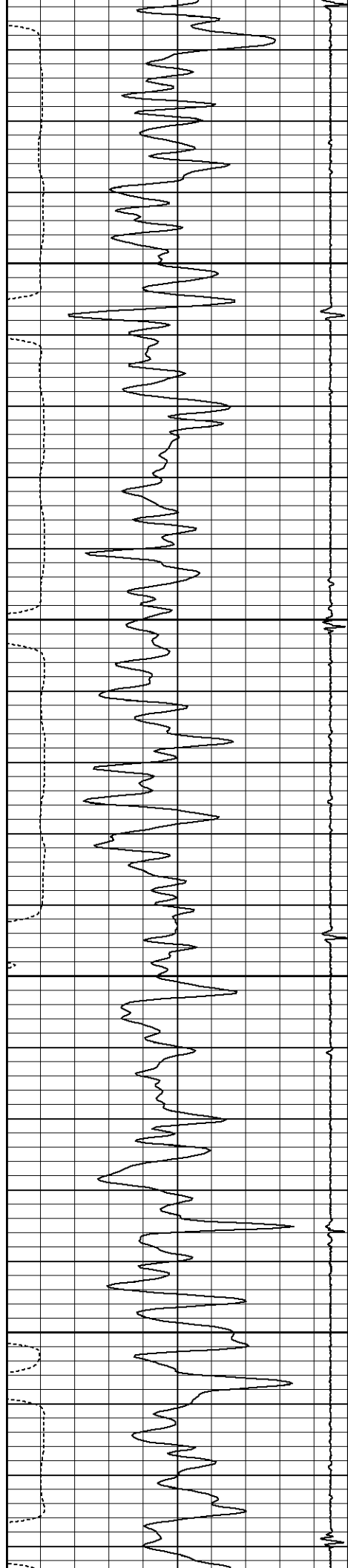
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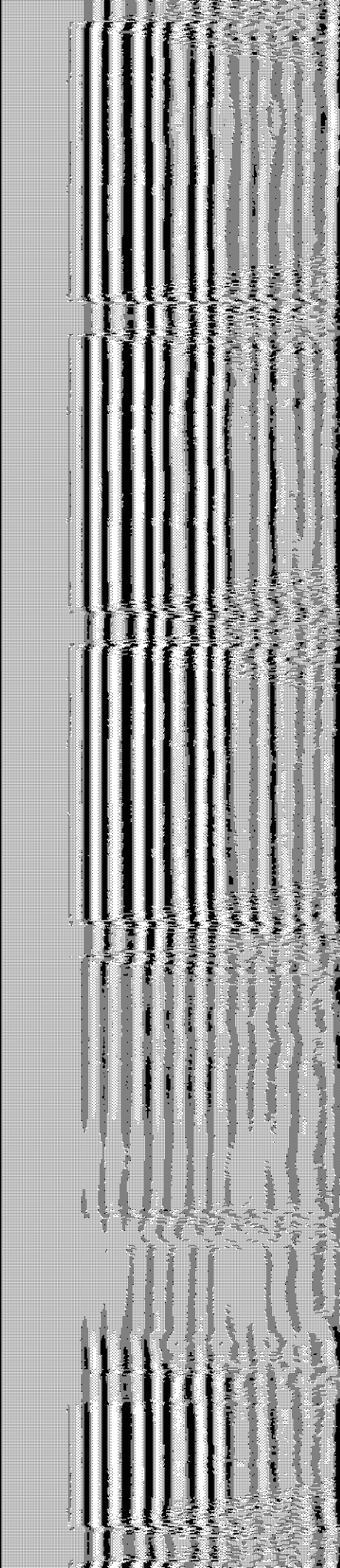
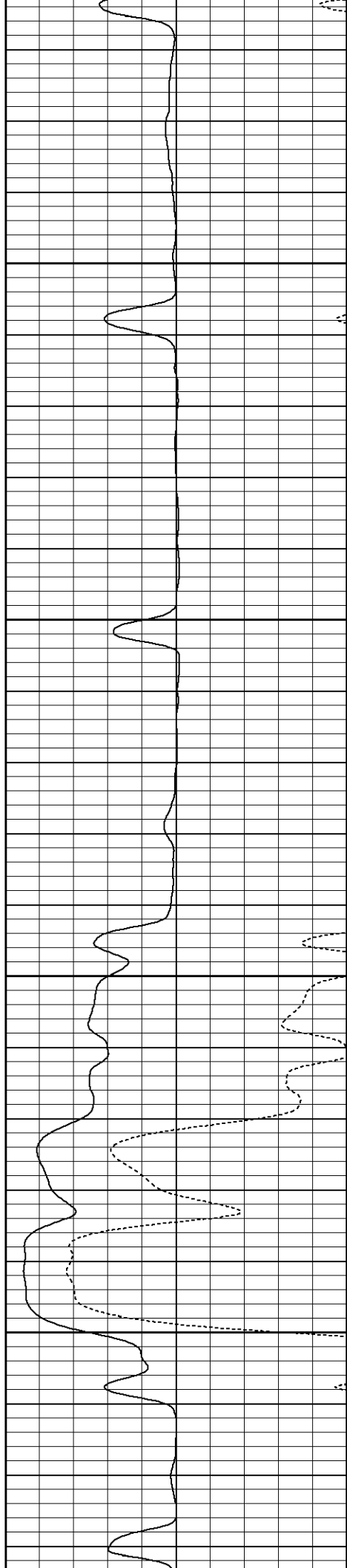


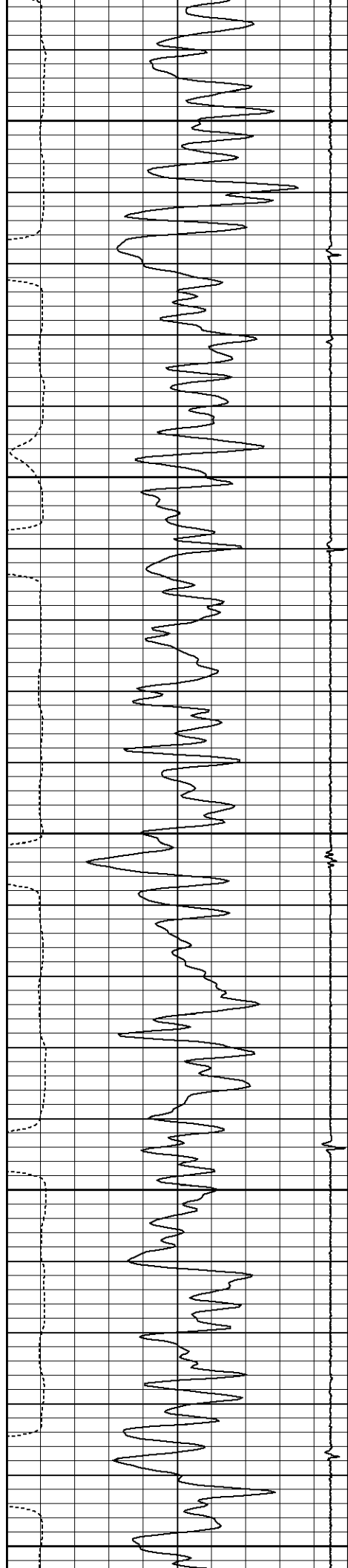
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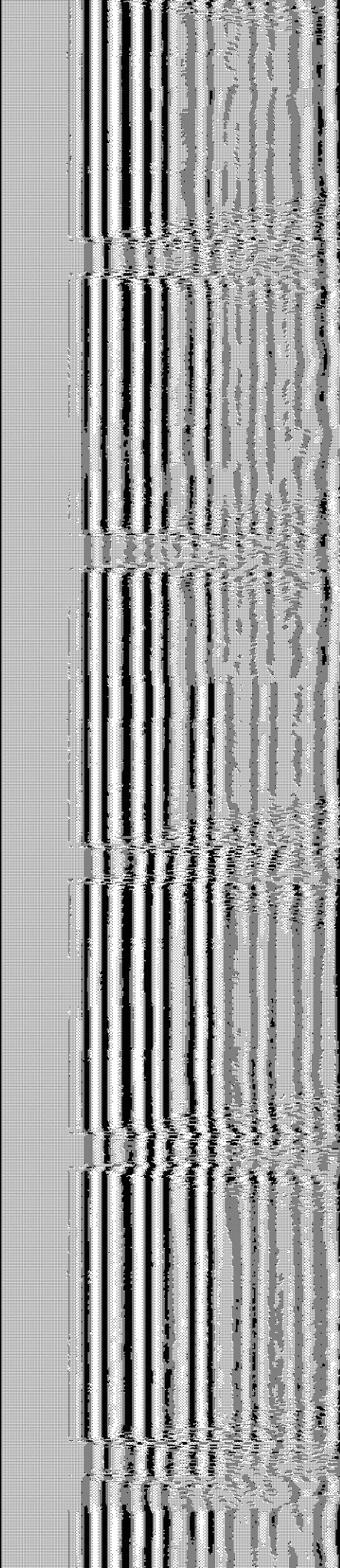
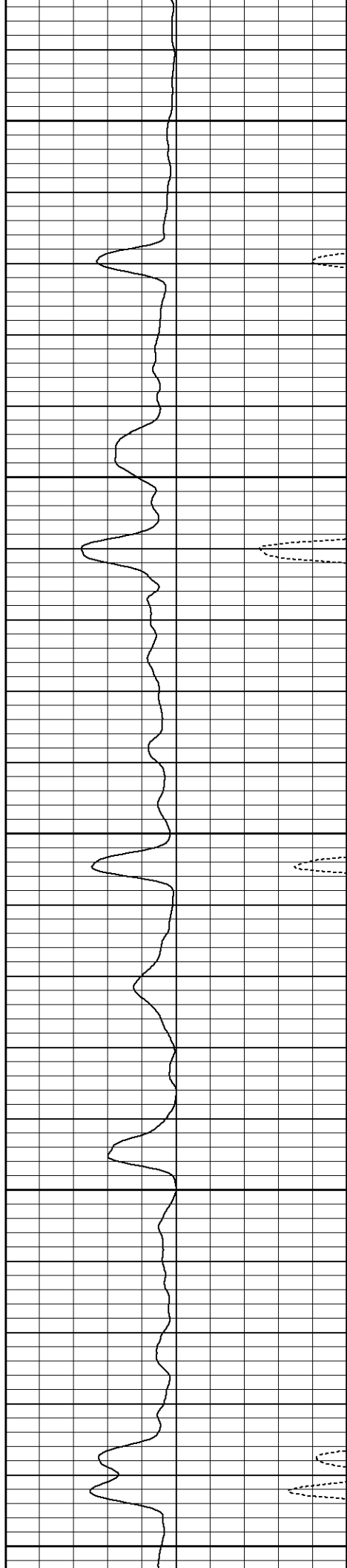
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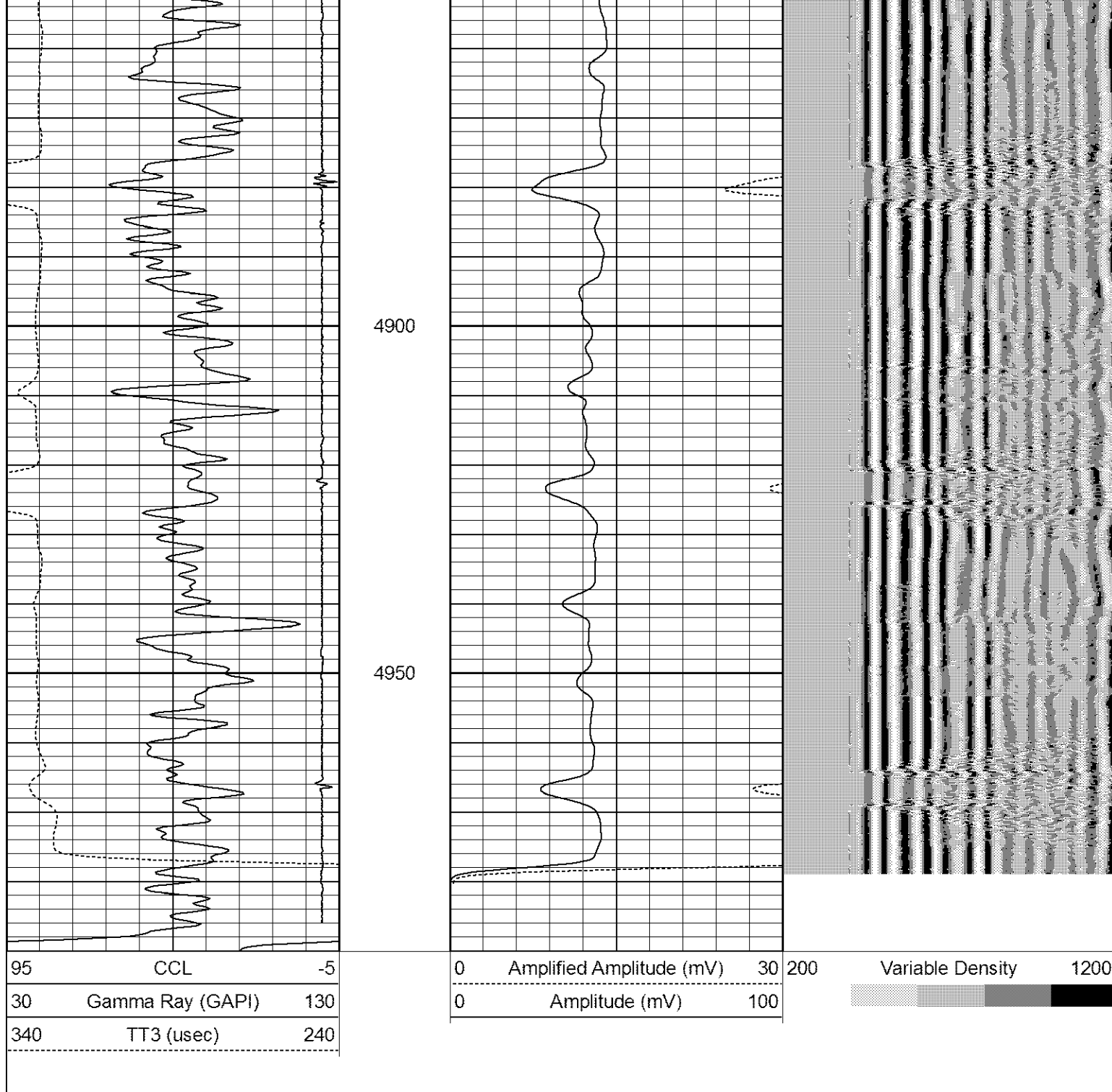
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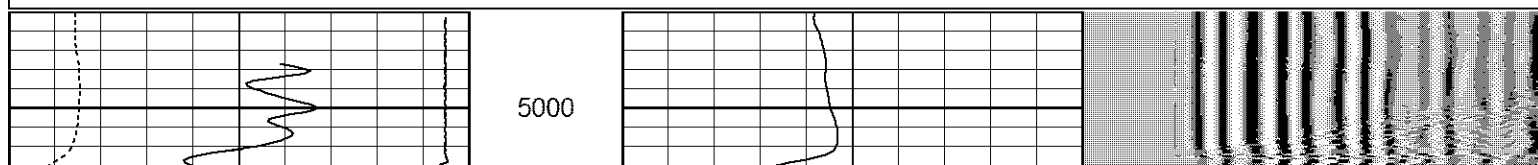
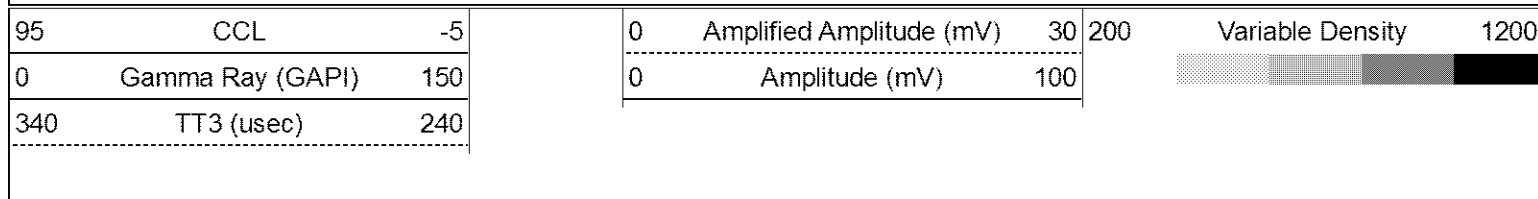
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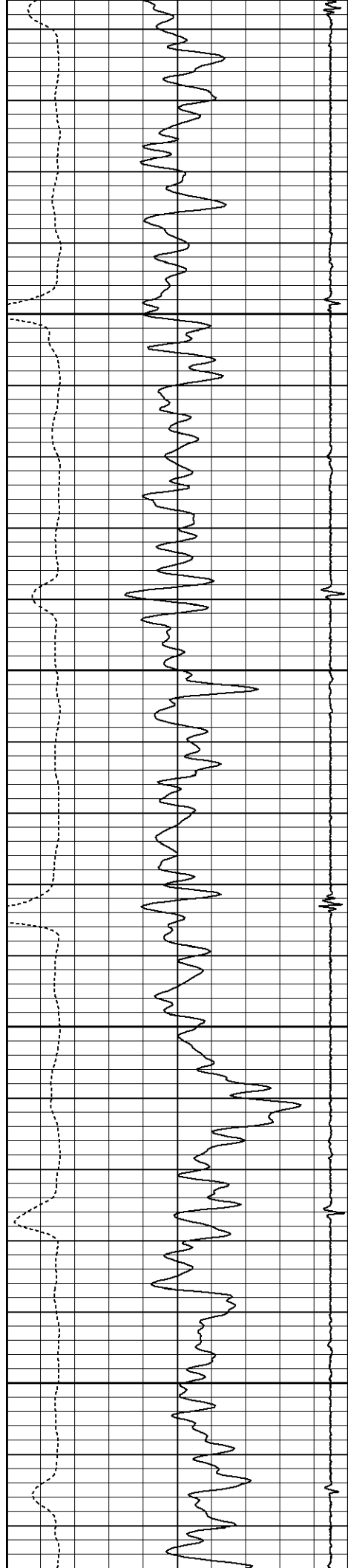
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Database File: cblwells ranch usx aa13-67hn.db
 Dataset Pathname: pass2
 Presentation Format: noble en
 Dataset Creation: Wed May 02 07:08:47 2012 by Log SCH 120126
 Charted by: Depth in Feet scaled 1:240



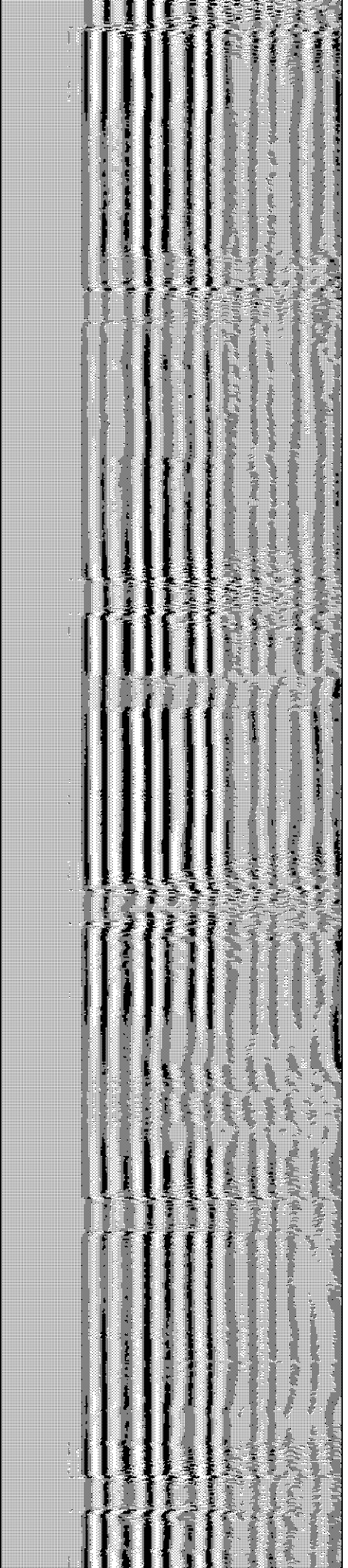
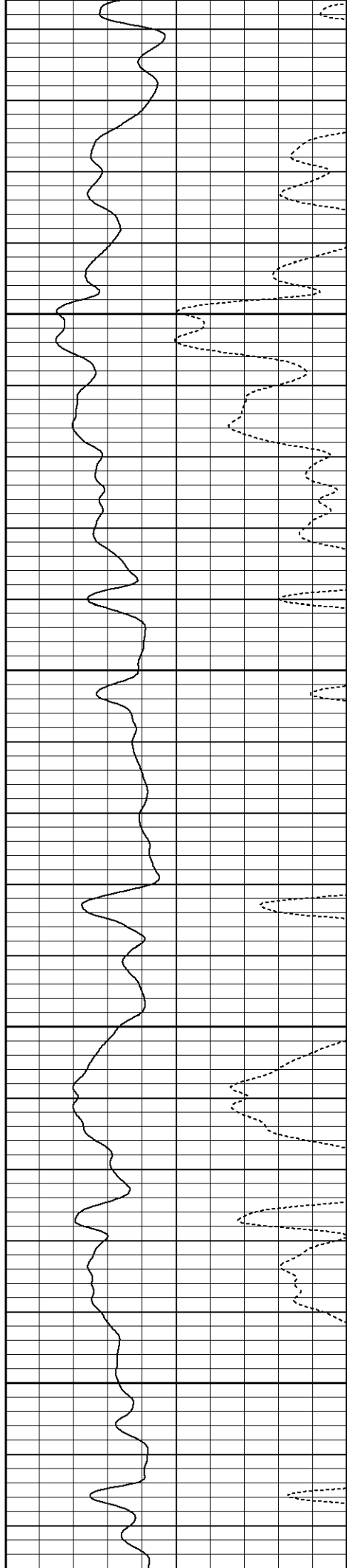


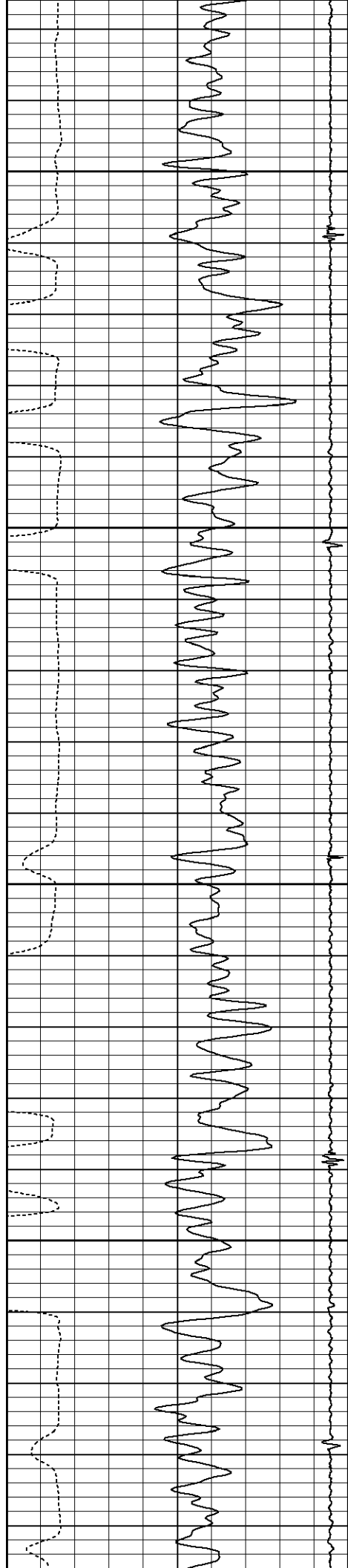
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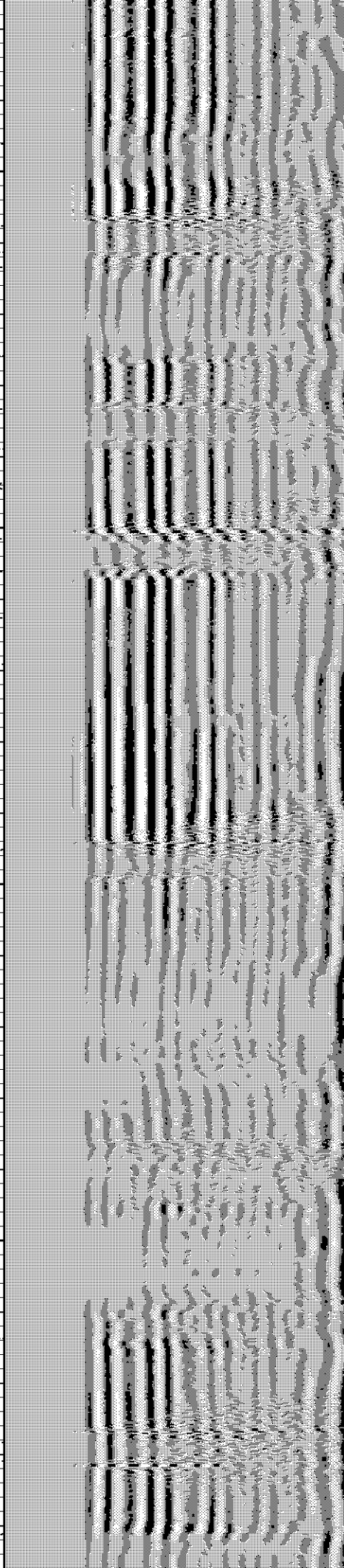
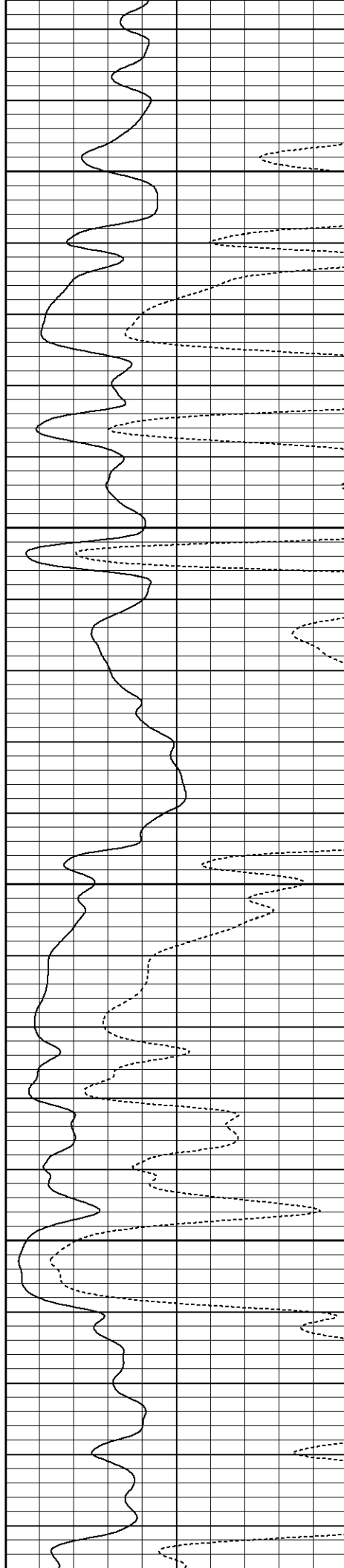


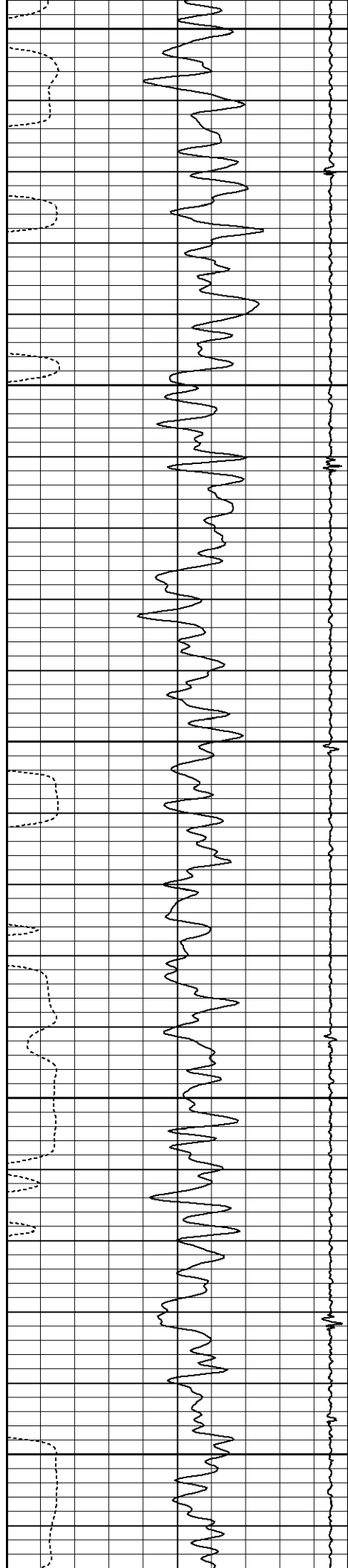
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5400





5450

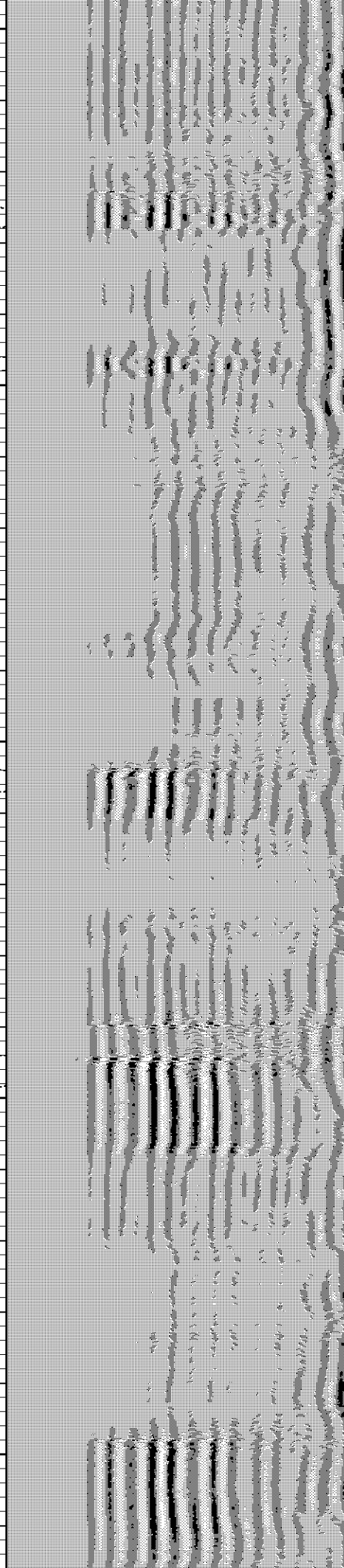
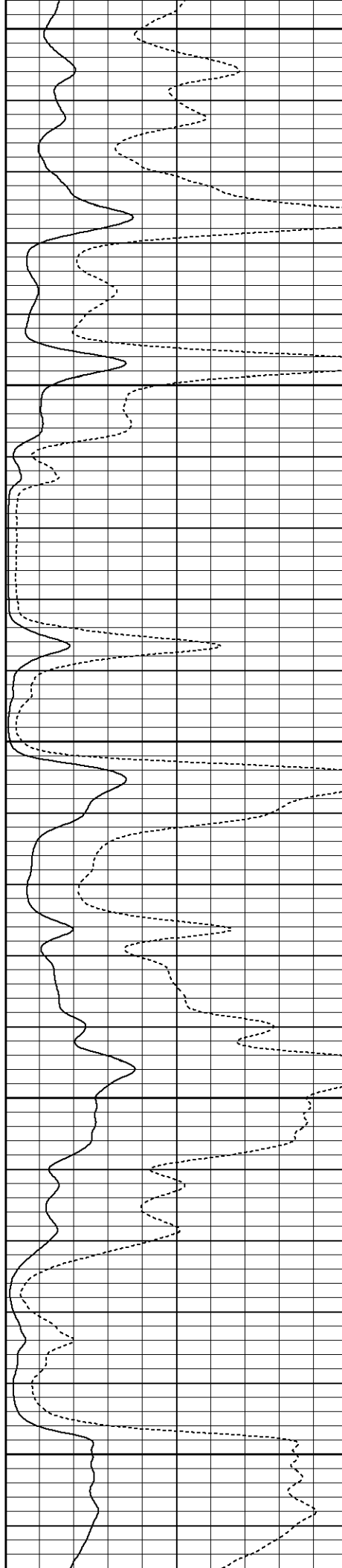
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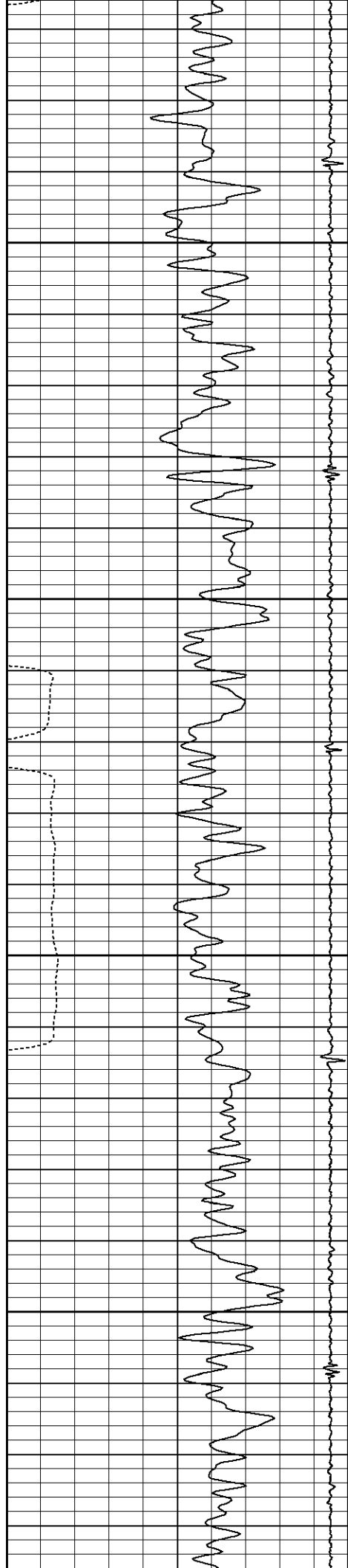
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5600

Flag Joint

5650



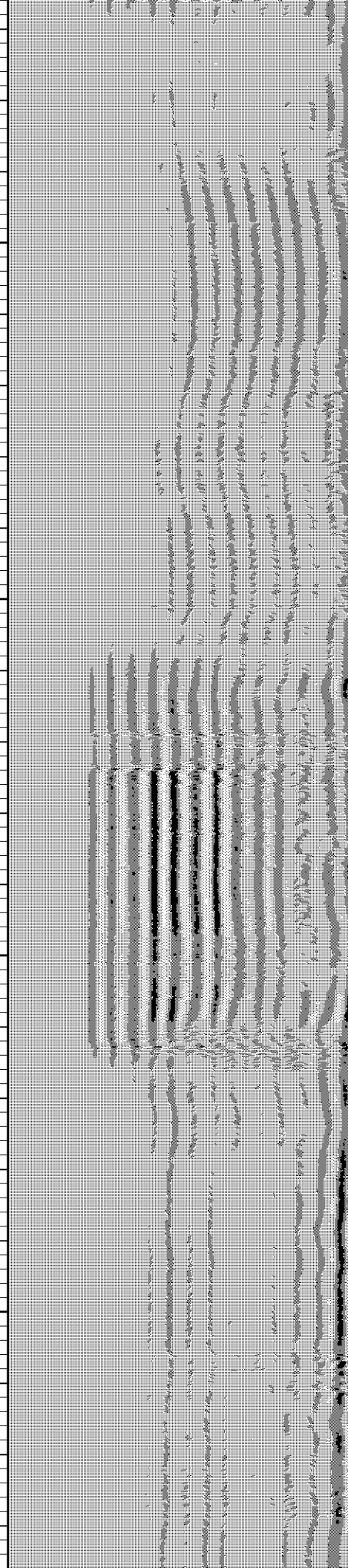
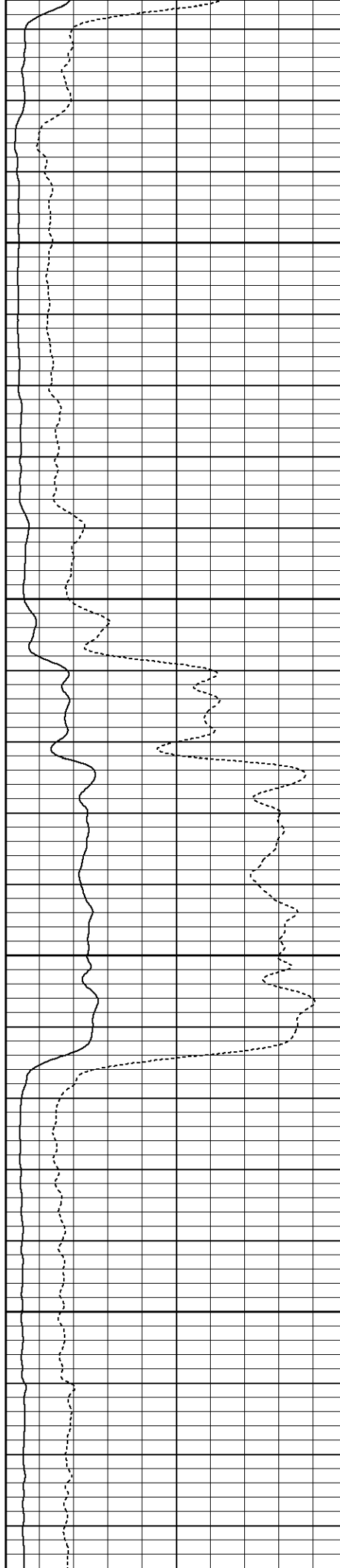


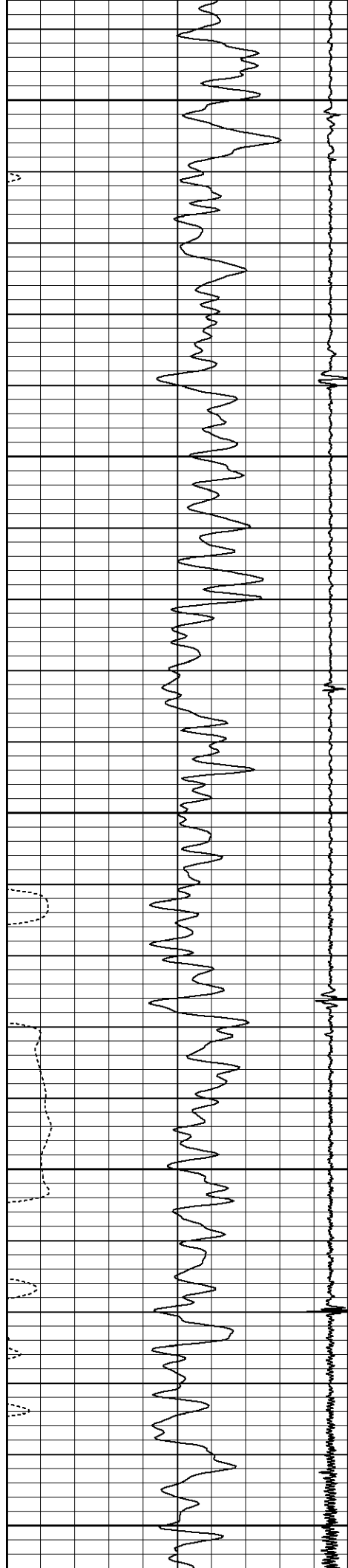
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5850





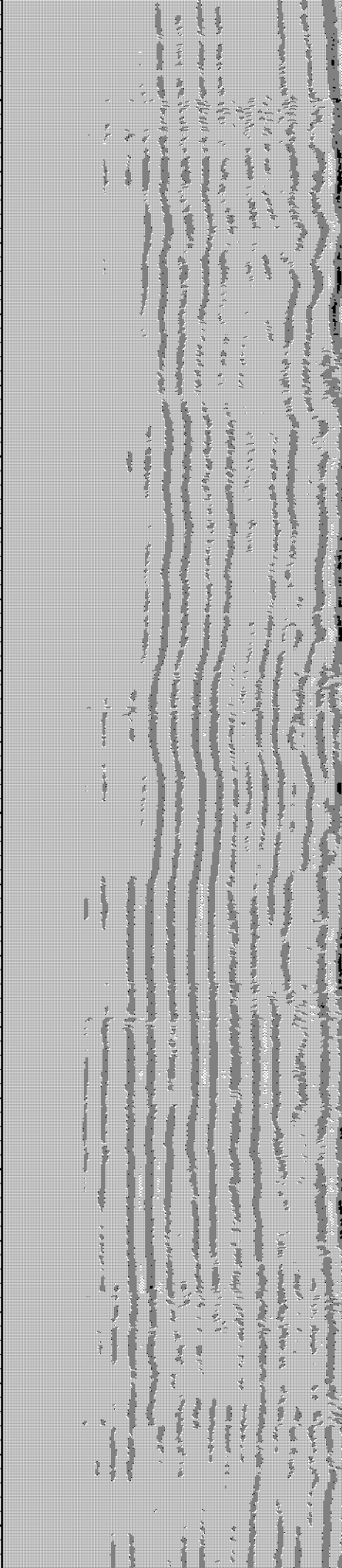
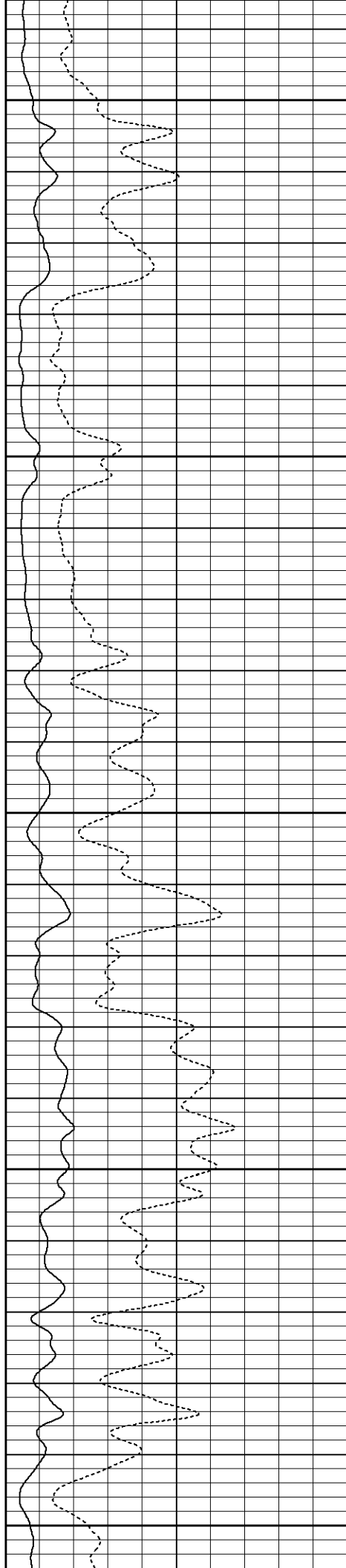
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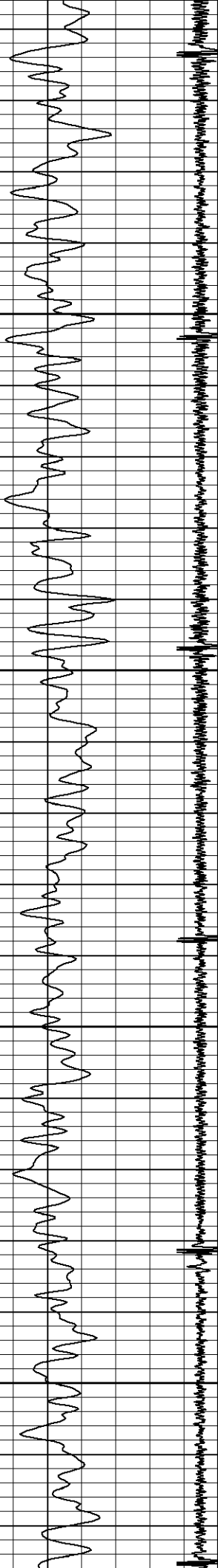
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6100



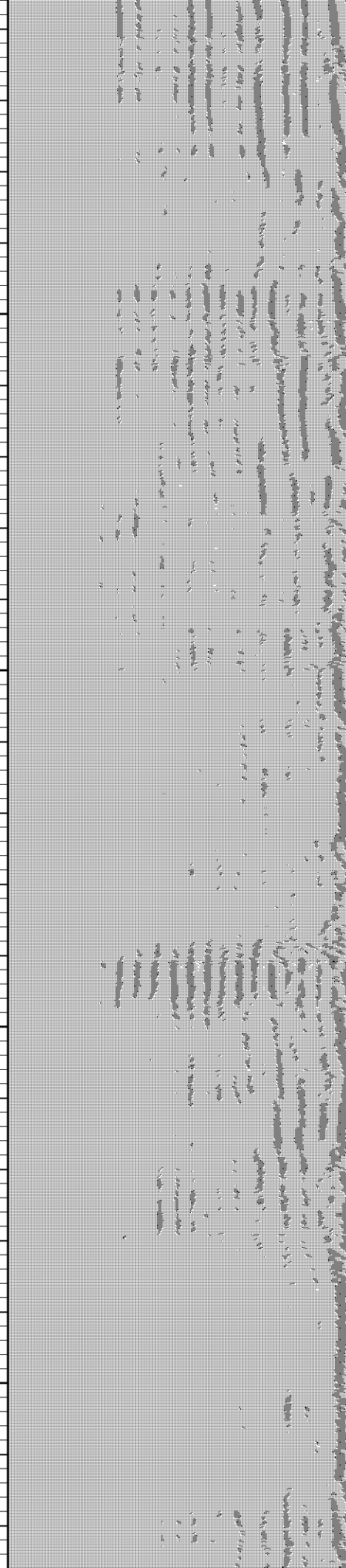
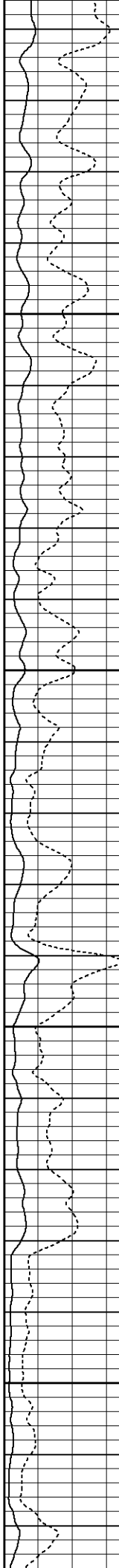


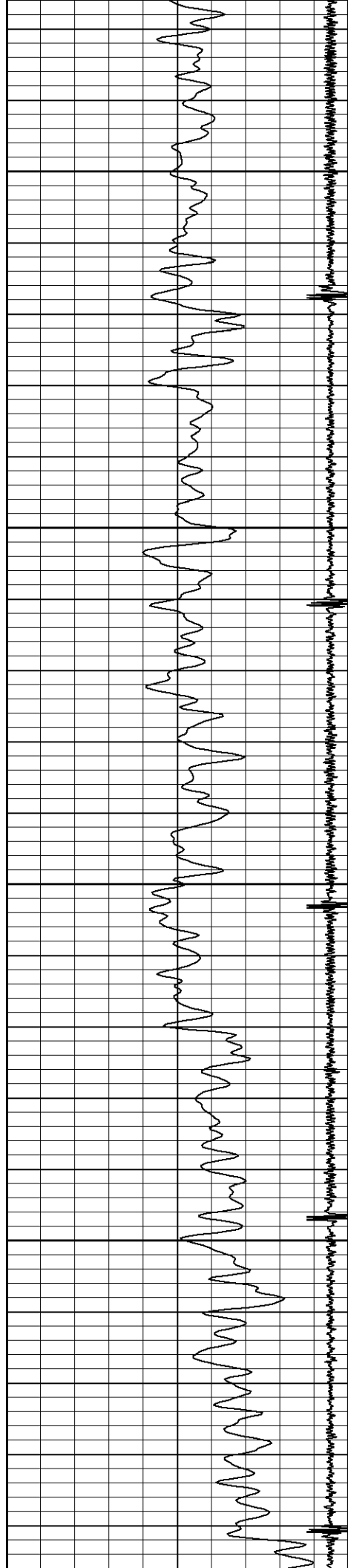
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6300



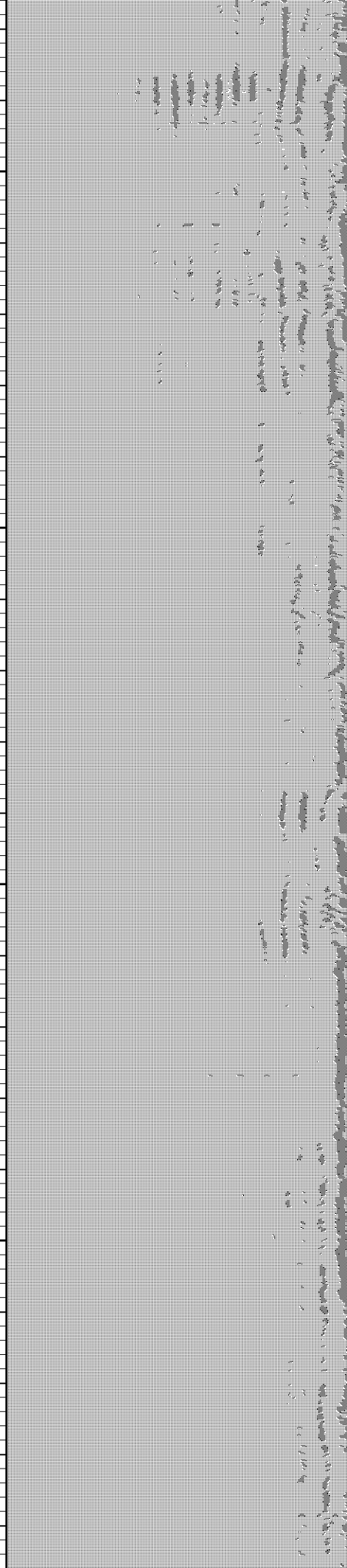
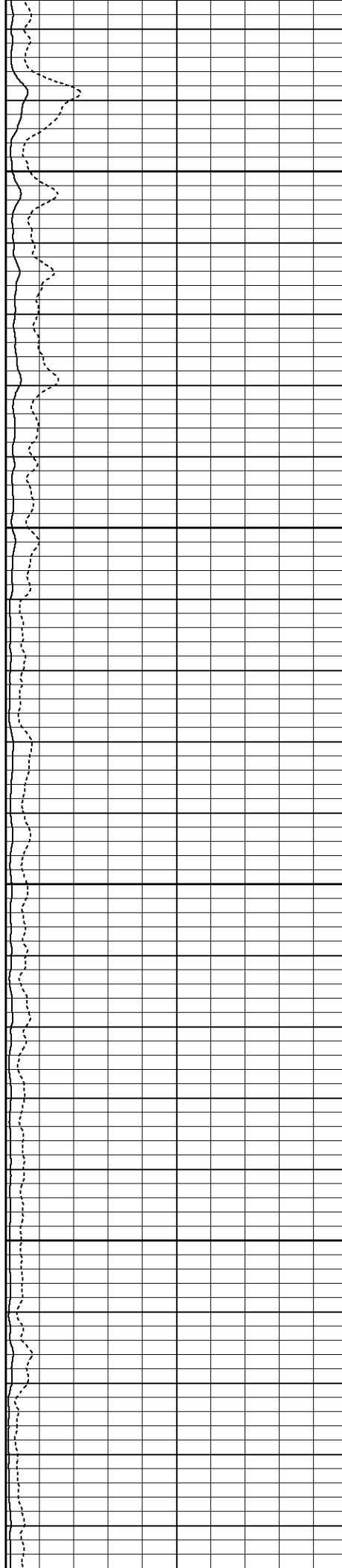


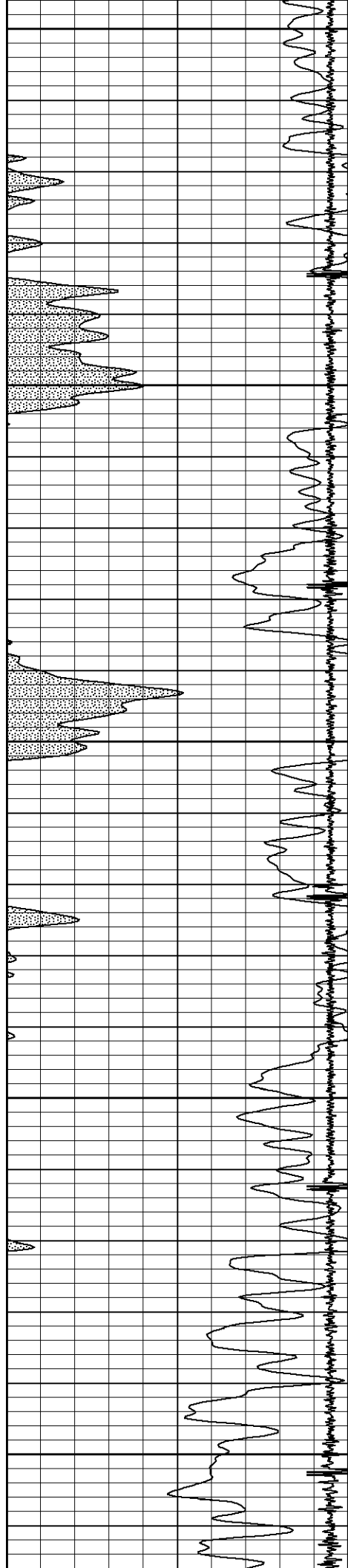
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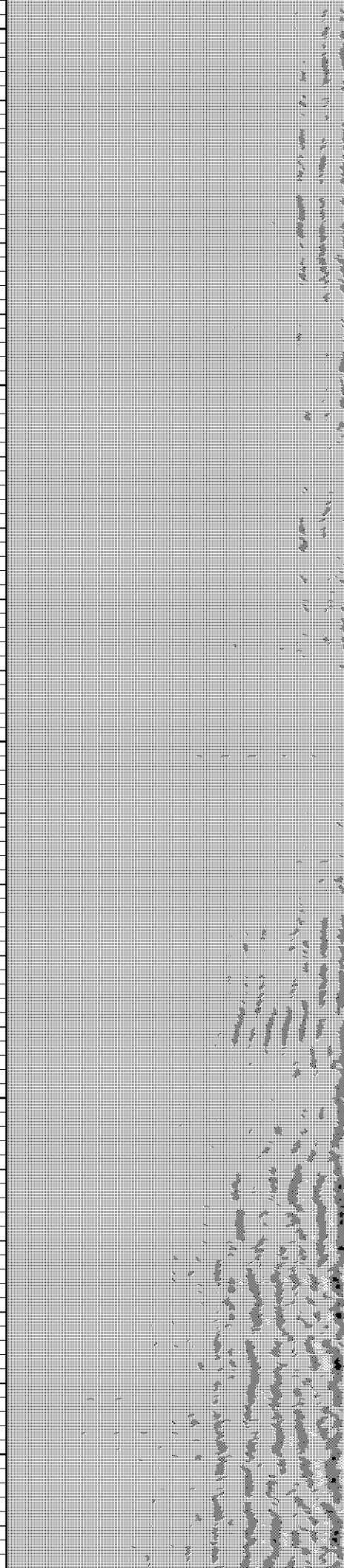
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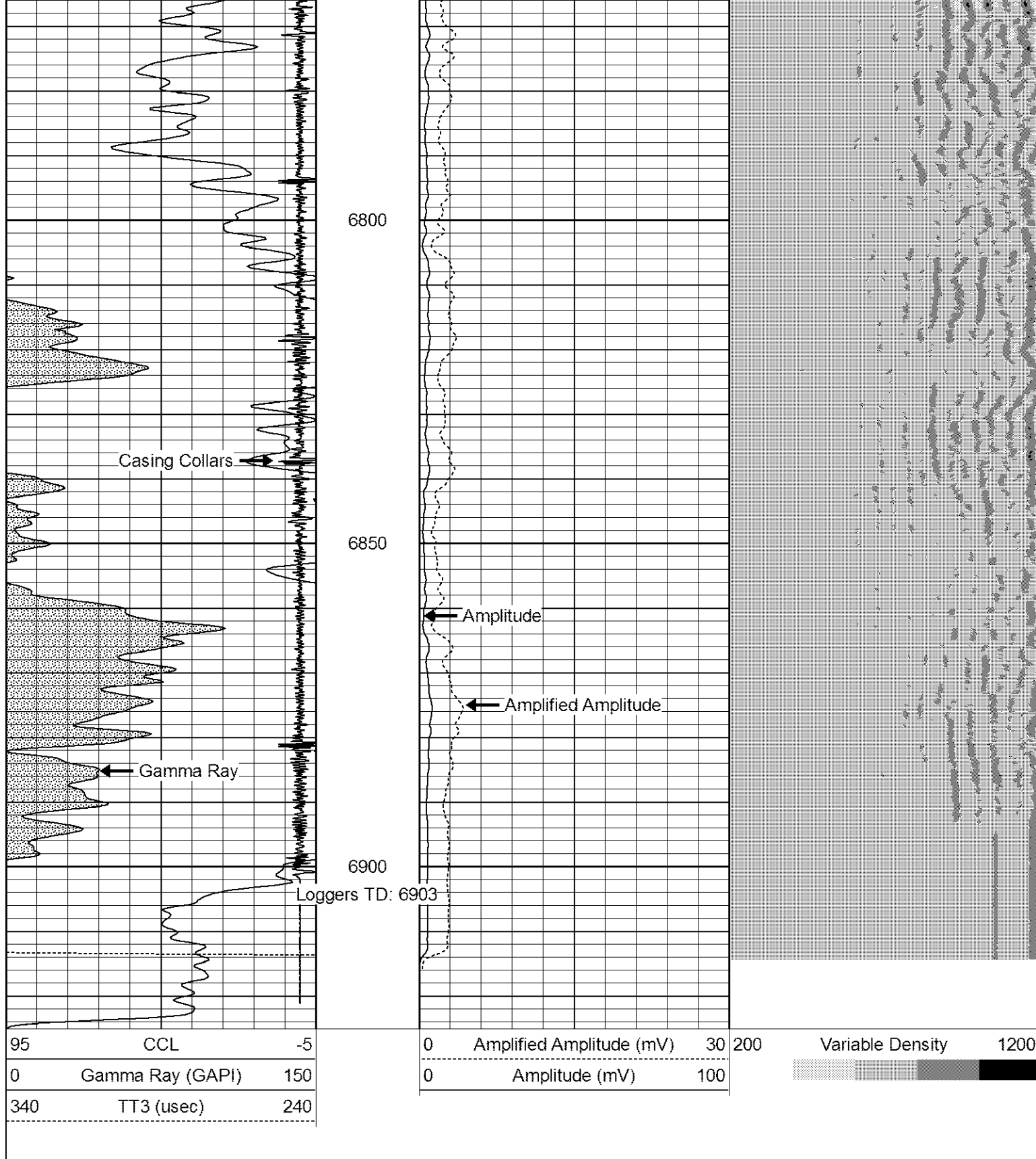
6600

6650

6700

6750





Calibration Report

Database File: cblwells ranch usx aa13-67hn.db
 Dataset Pathname: pass3
 Dataset Creation: Wed May 02 07:26:01 2012 by Log SCH 120126

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION

Wed May 02 07:10:03 2012

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.8000			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:	Wed May 02 06:49:11 2012		
Depth:	283.6	ft	
Casing Diameter:	7	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.7	0	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	0.013623	0.013501	V
Reading in Free Pipe:	2.4936	2.37004	V
Gain:	24.7845	26.3798	
Offset:	0.362359	-0.356153	