

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

Company Noble Energy INC.
Well MARLEY C01-33D
Field Wattenberg
County Weld
State Colorado

Location: API #: 05123311850000

Other Services

SHL: 1981' FSL & 588' FWL NW SW
BHL: 1337' FSL & 157' FWL NW SW
SEC 01 TWP 4N RGE 64W

Elevation

Permanent Datum GL
Log Measured From KB 15'
Drilling Measured From KB
Elevation 4611

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

Date January 26, 2012

Run Number	One	
Depth Driller	6978	
Depth Logger	6904	
Bottom Logged Interval	6903	
Top Log Interval	1300	
Casing Size	4 1/2"	
Type Fluid	Water	
Max. Recorded Temp.	219 deg F	
Estimated Cement Top	1876	
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	690
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	6975
Liner				

<<< Fold Here >>>

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

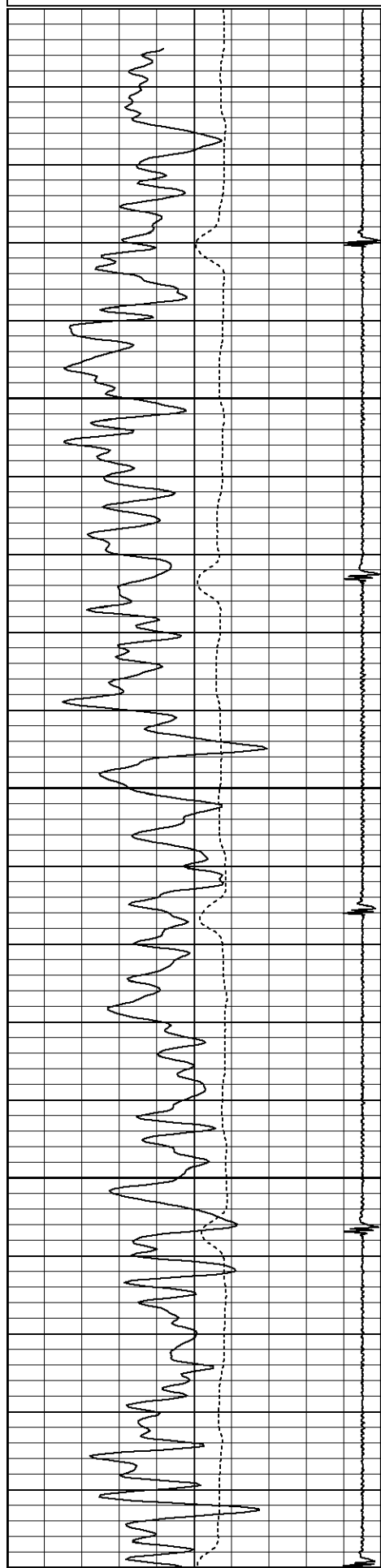
Thank You For Choosing Superior Well Services!!!
API# 05-123-31185-0000
Correlated to PSI's
Compensated Density / Compensated Neutron / Microlog
Dated: January 12, 2012
Directions: 48 & 59, N 4/10, E Into
(Western Most Well of 3 Well Pad)

Database File: cblmarley c01-33d.db
Dataset Pathname: pass3
Presentation Format: noble en
Dataset Creation: Thu Jan 26 09:34:08 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

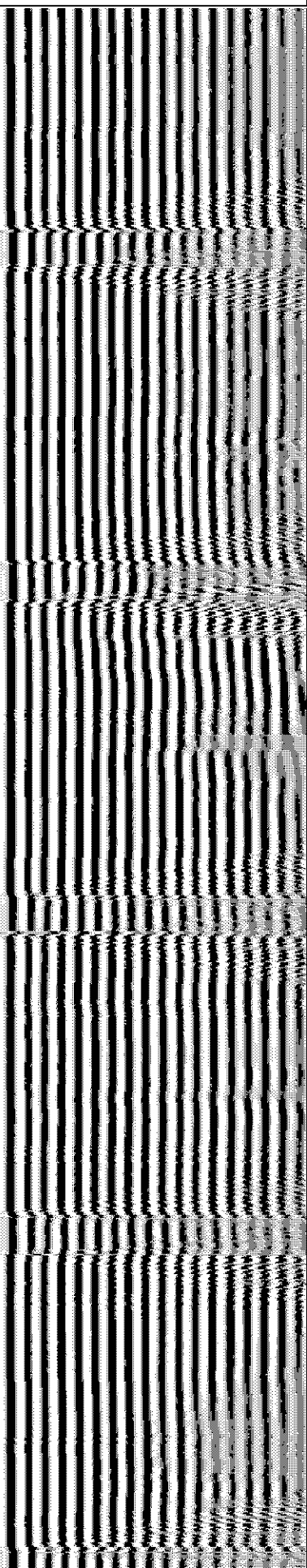
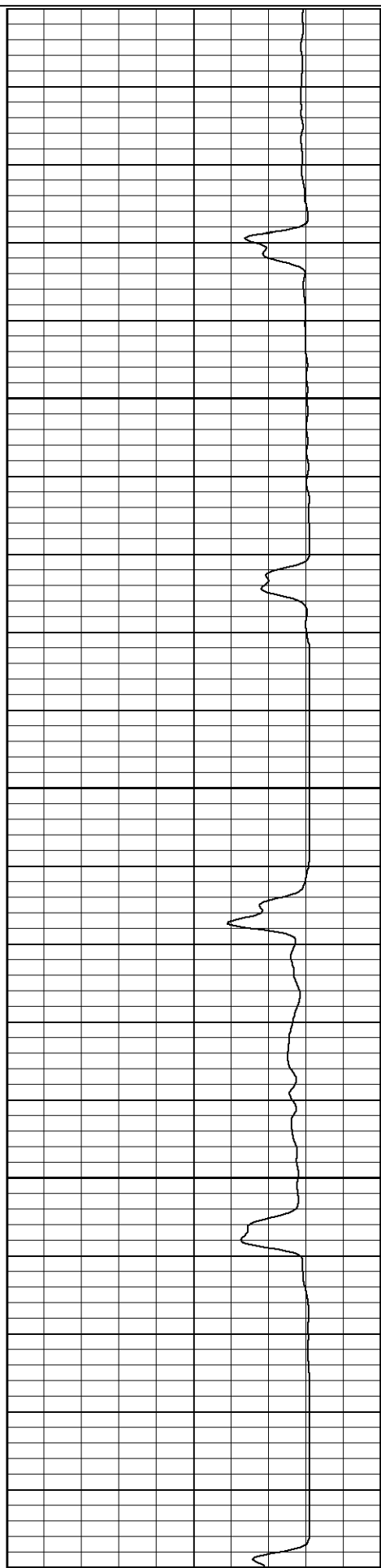
85	CCL	-4.3
30	Gamma Ray (GAPI)	130
340	TT3 (usec)	240

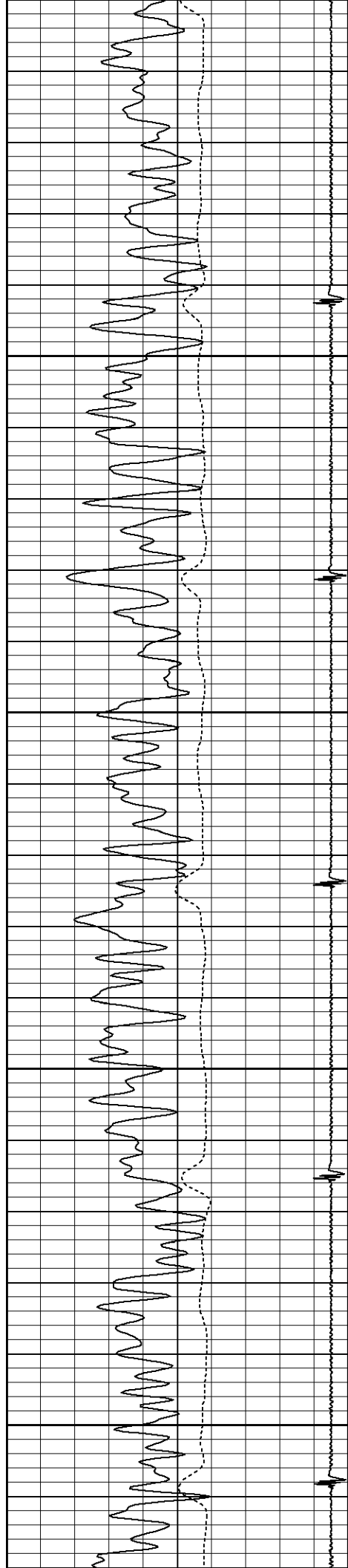
0	Amplified Amplitude (mV)	30
0	Amplitude (mV)	100

Variable Density	1200
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1300
1350
1400
1450
1500





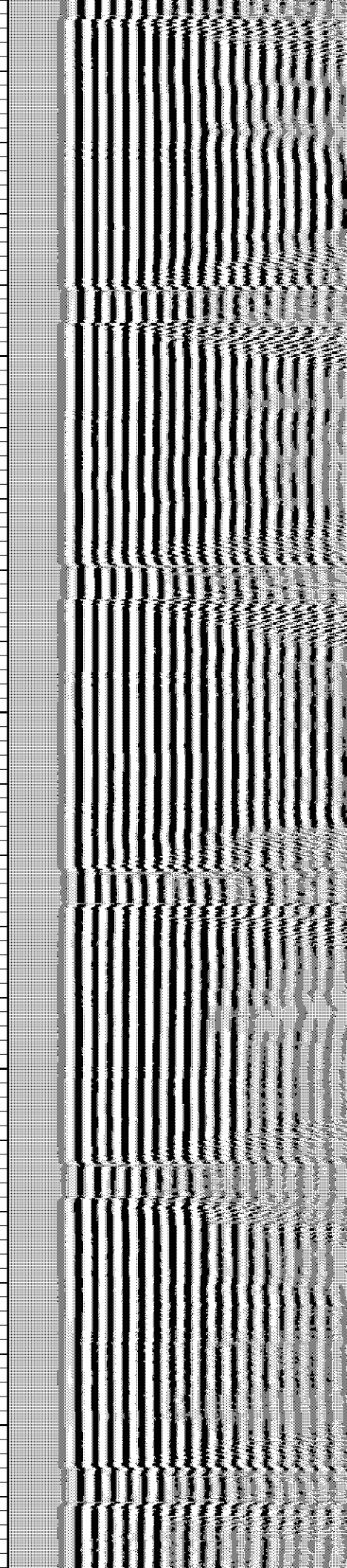
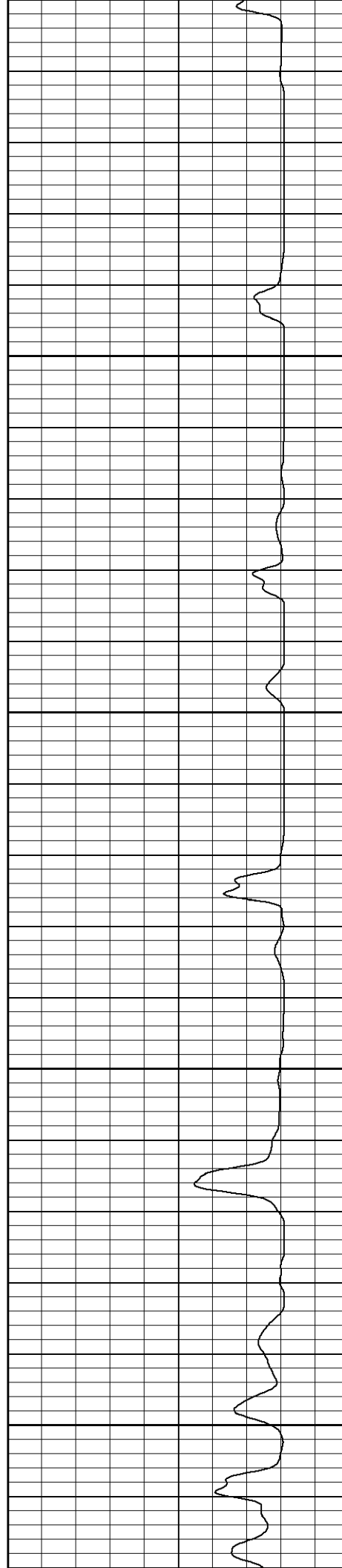
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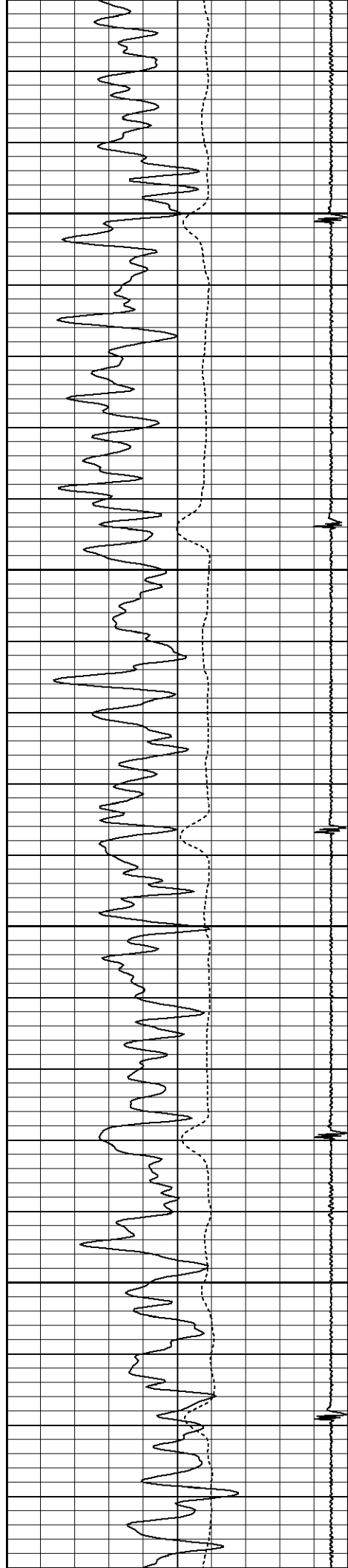
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1600

1650

1700



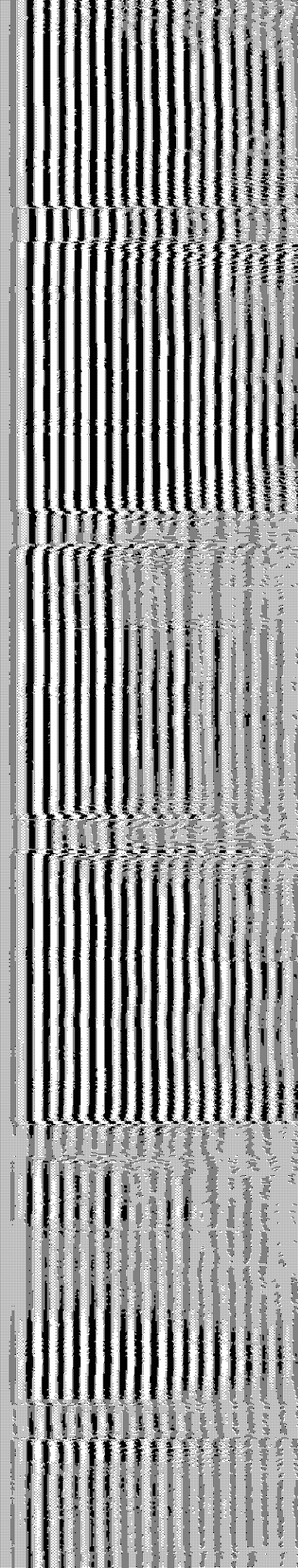
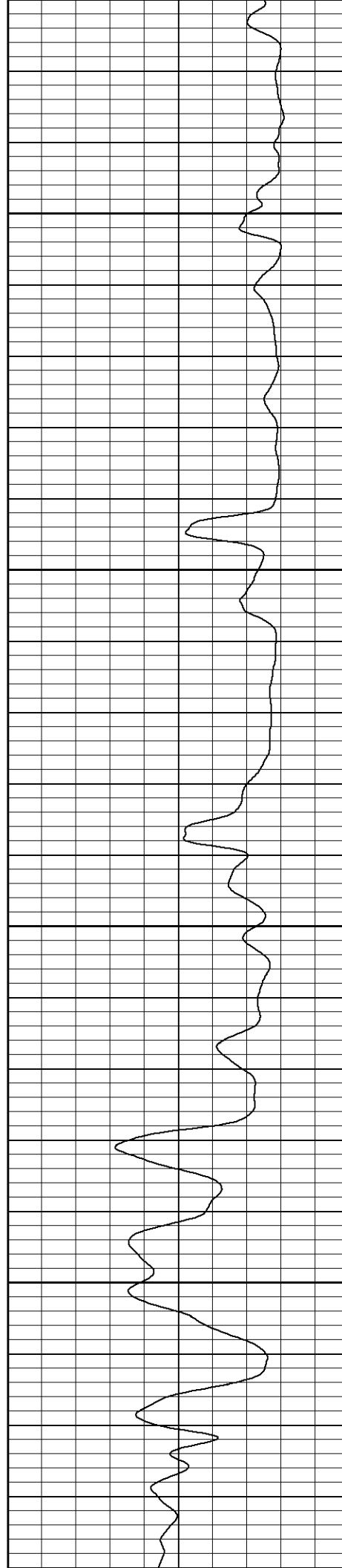


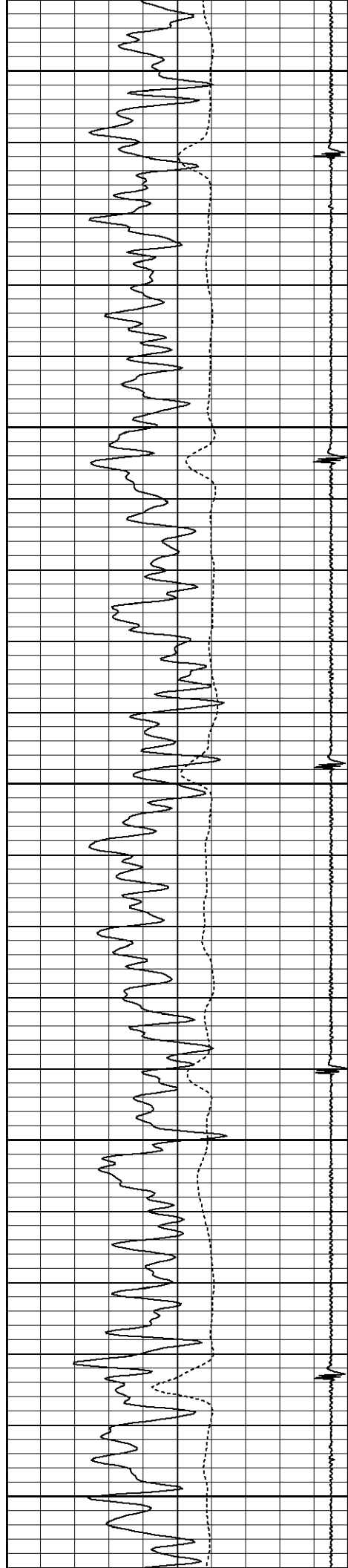
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1800

1850

1900





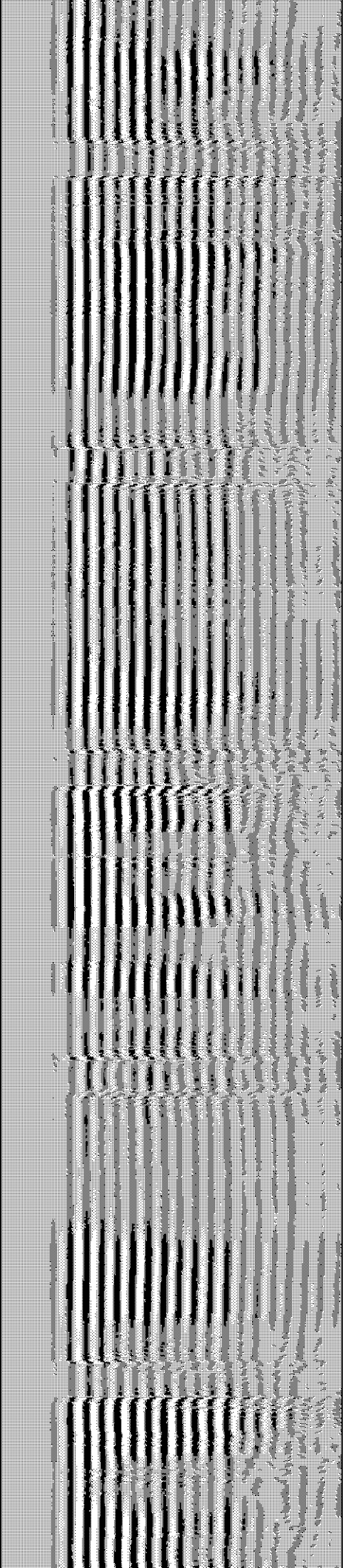
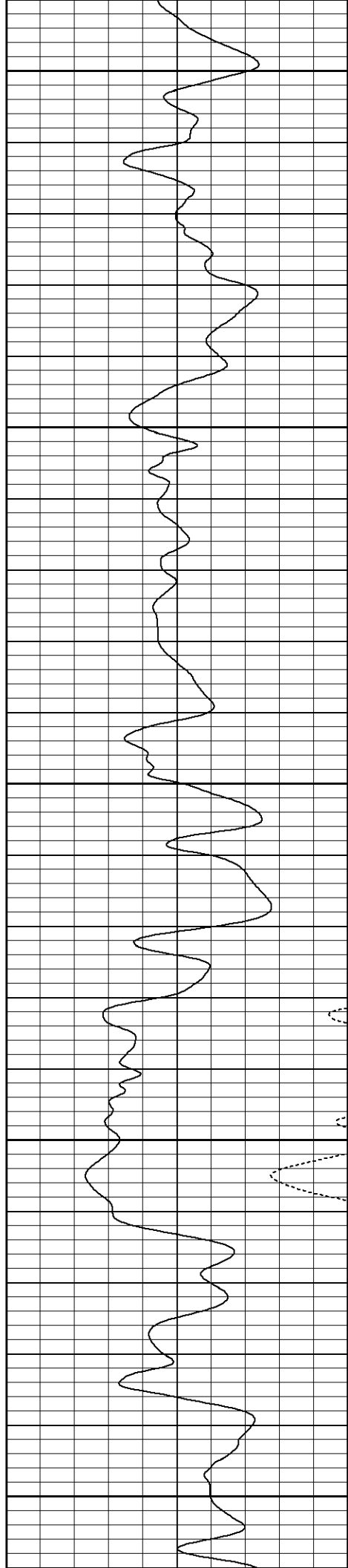
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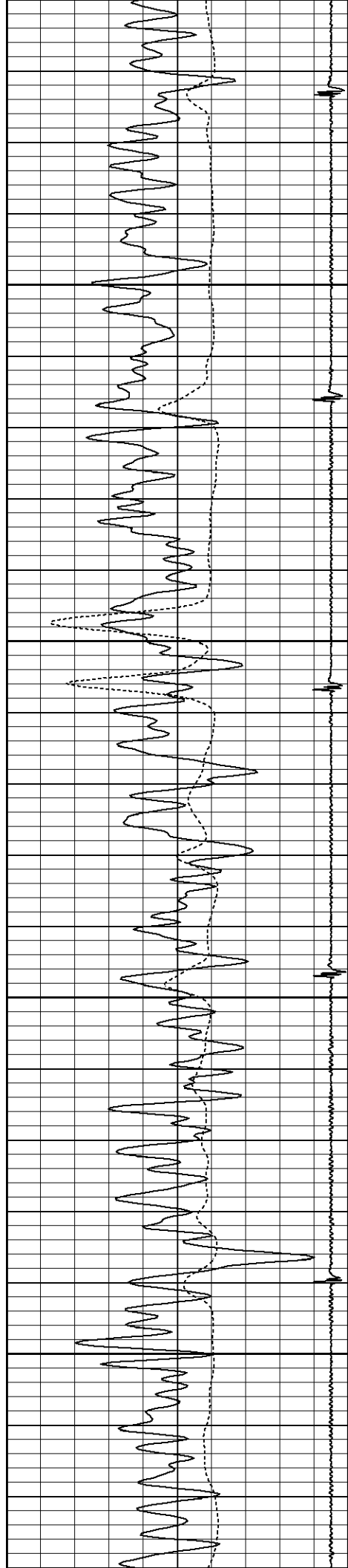
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2050

2100

2150



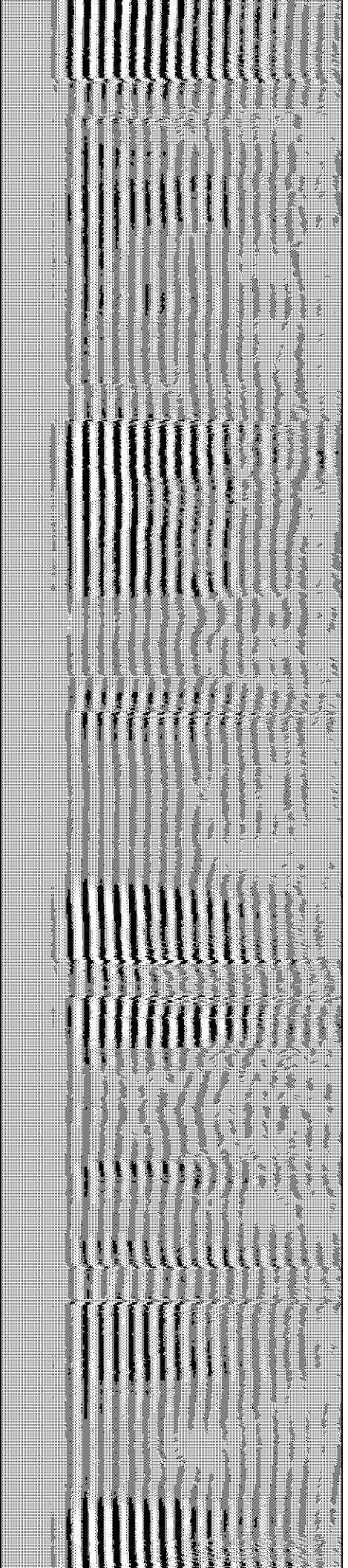
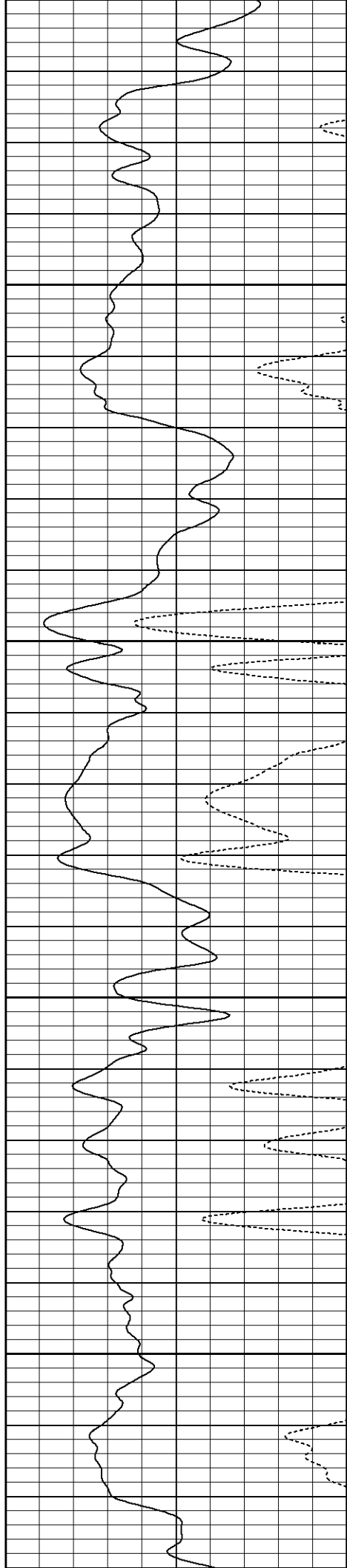


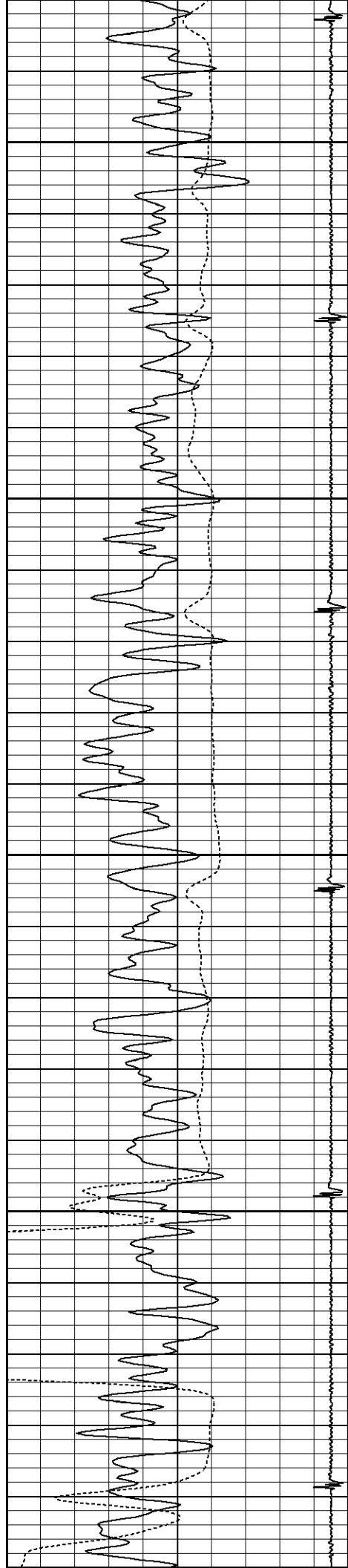
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2250

2300

2350





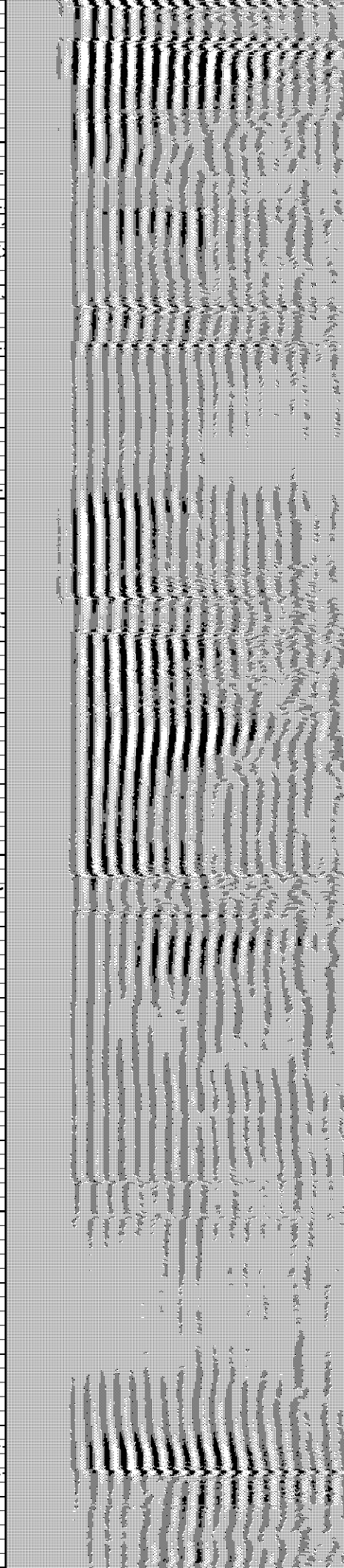
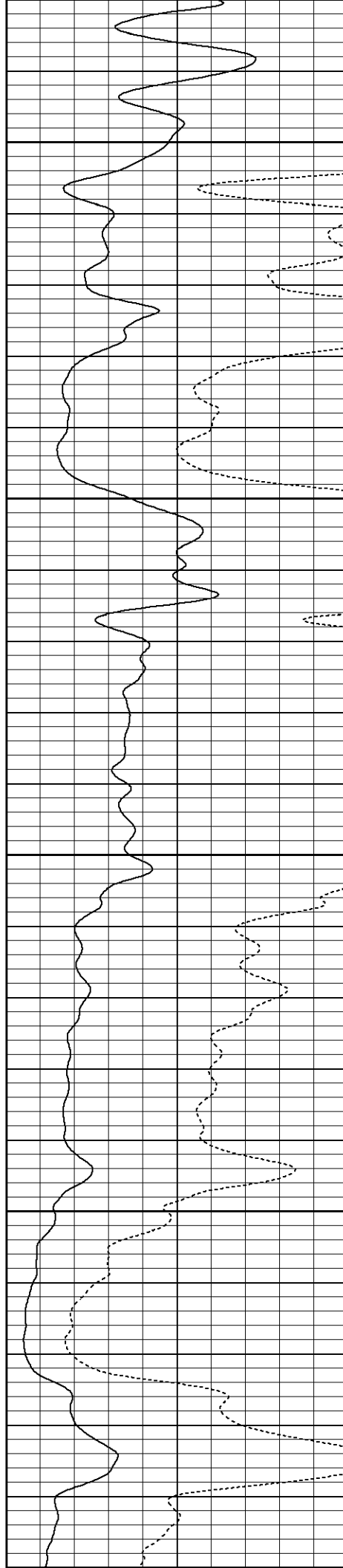
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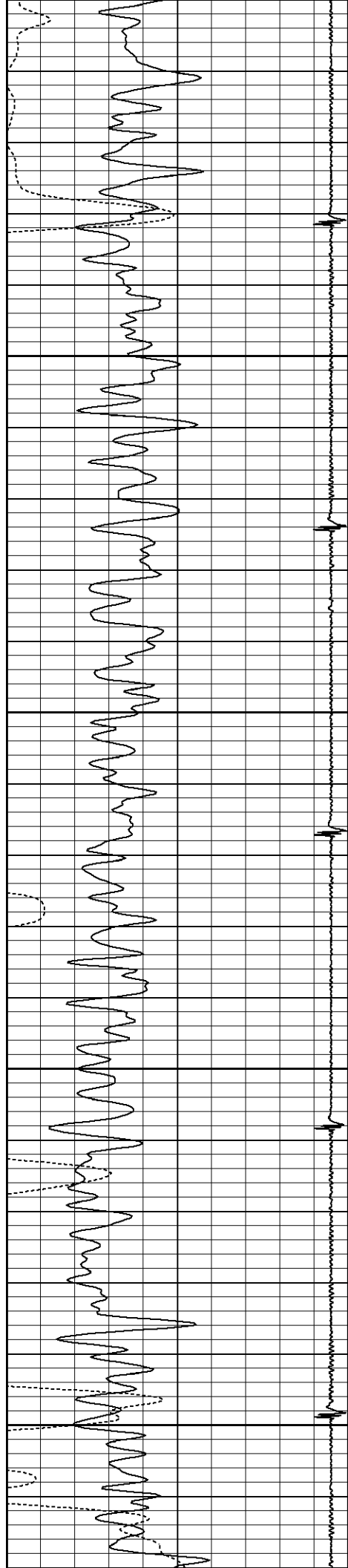
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2500

2550

2600





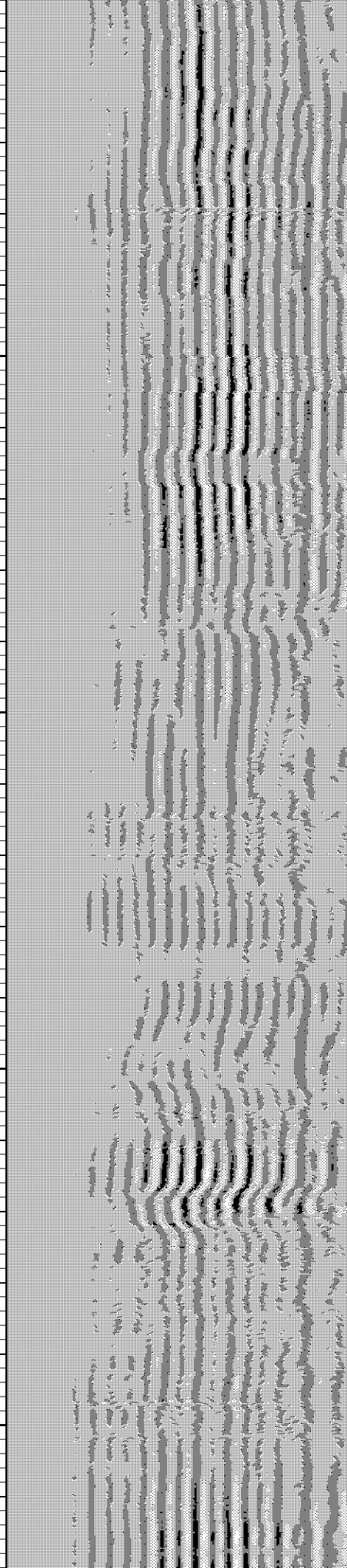
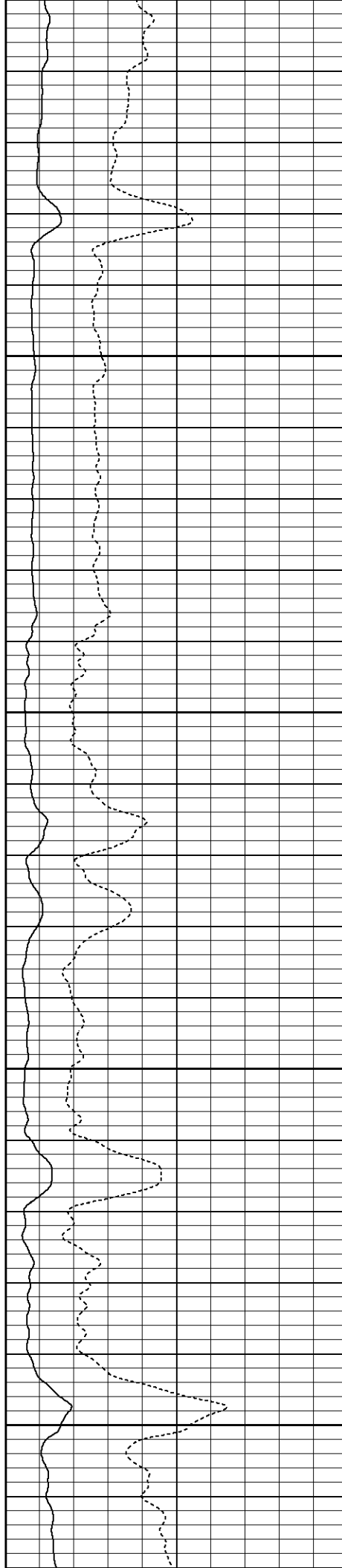
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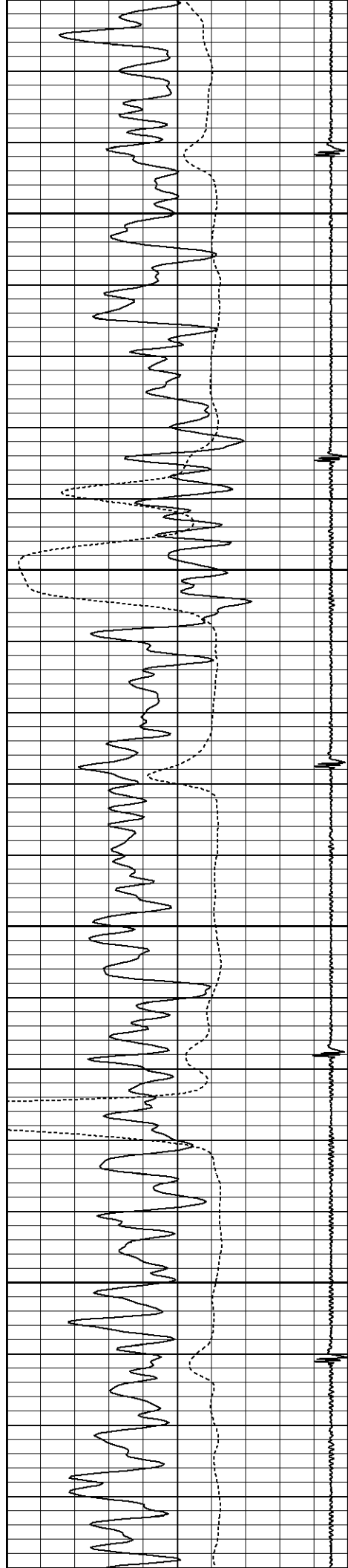
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2700

2750

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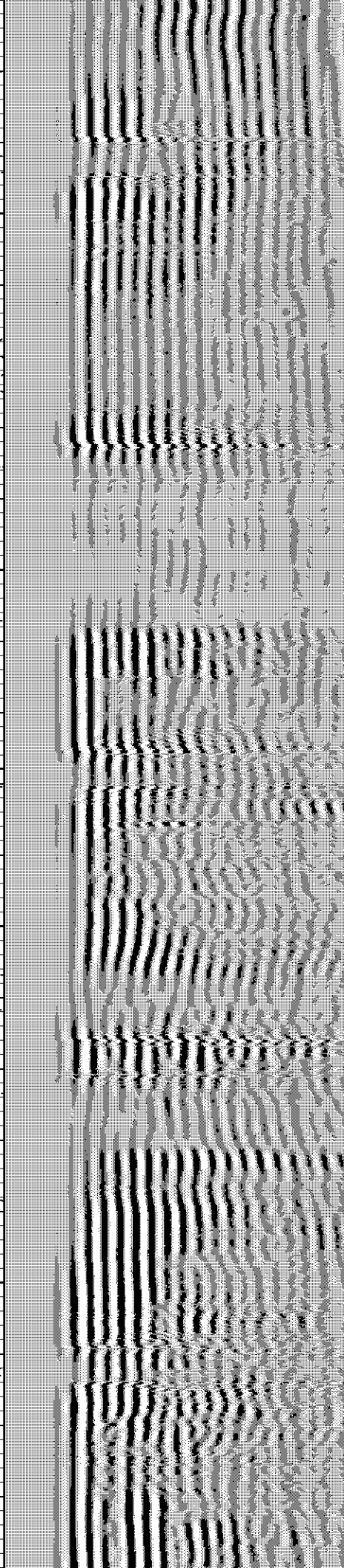
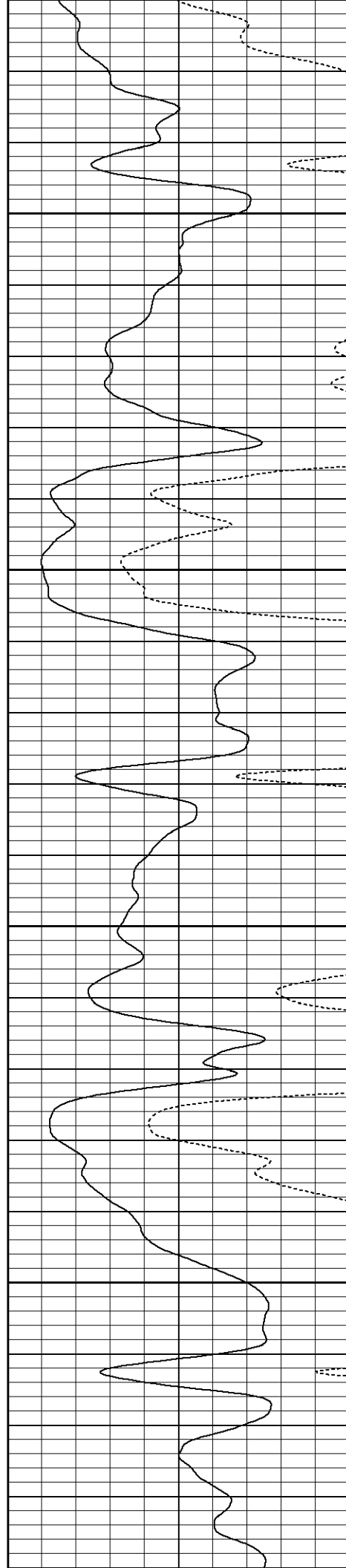


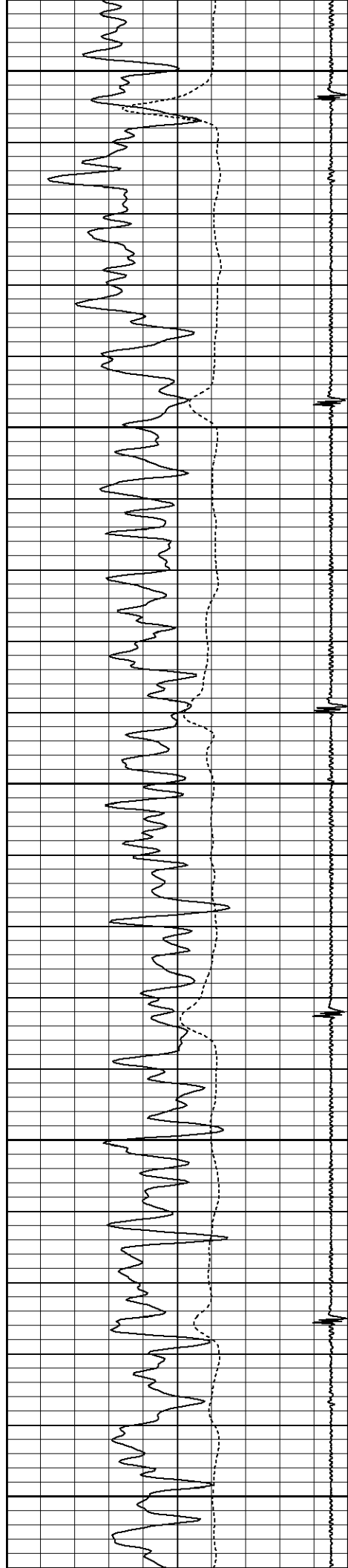
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2900

2950

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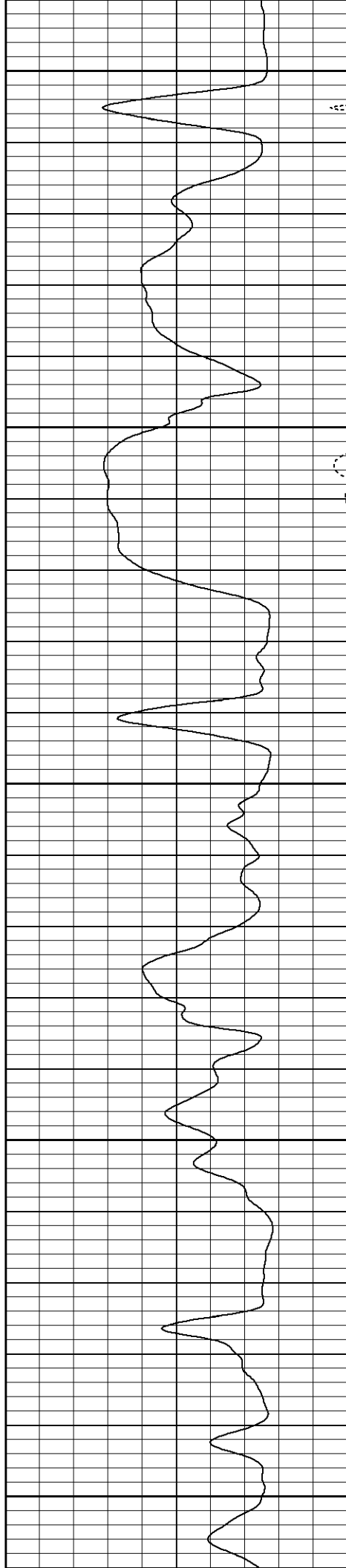
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3100

3150

3200

3250



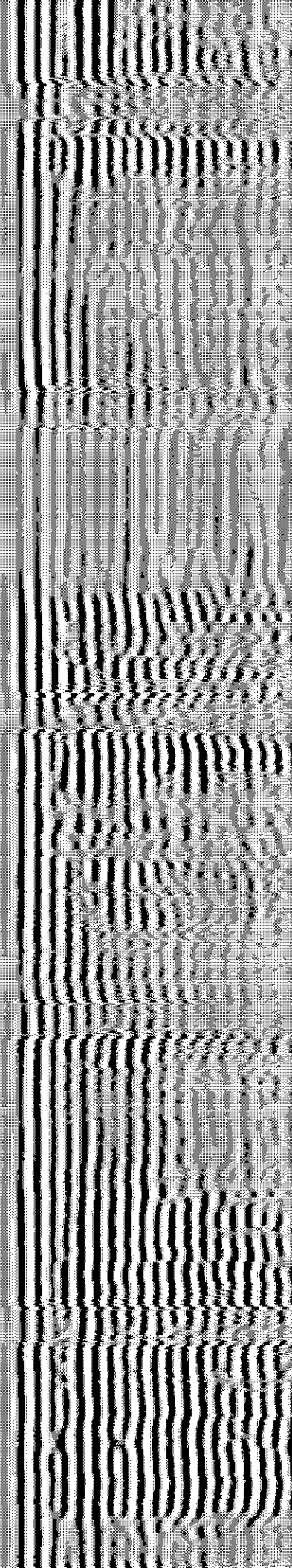
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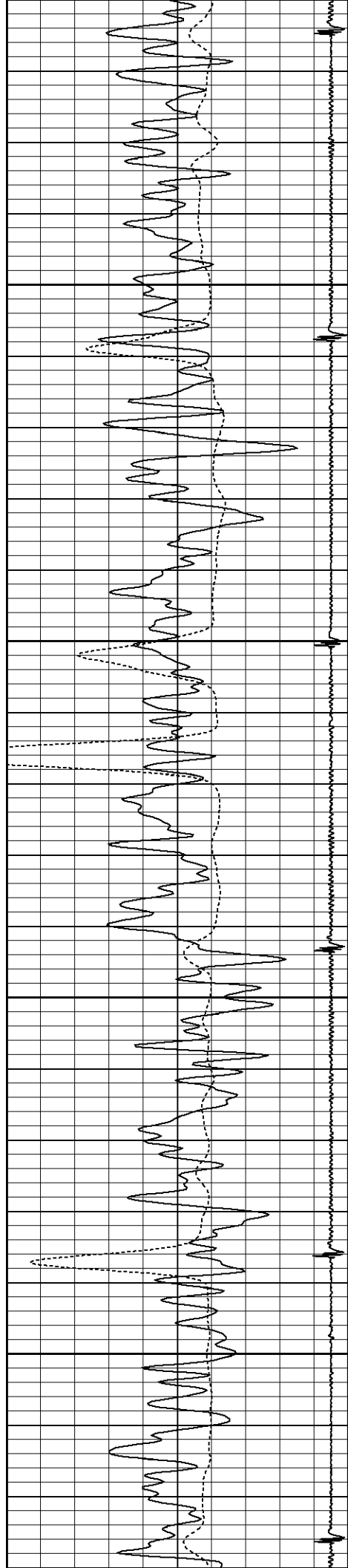
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400

400

400



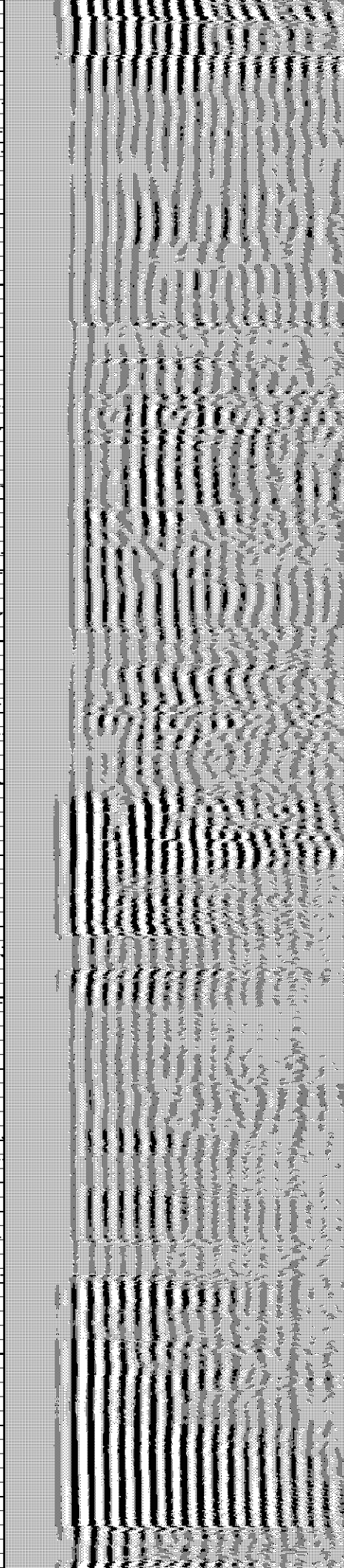
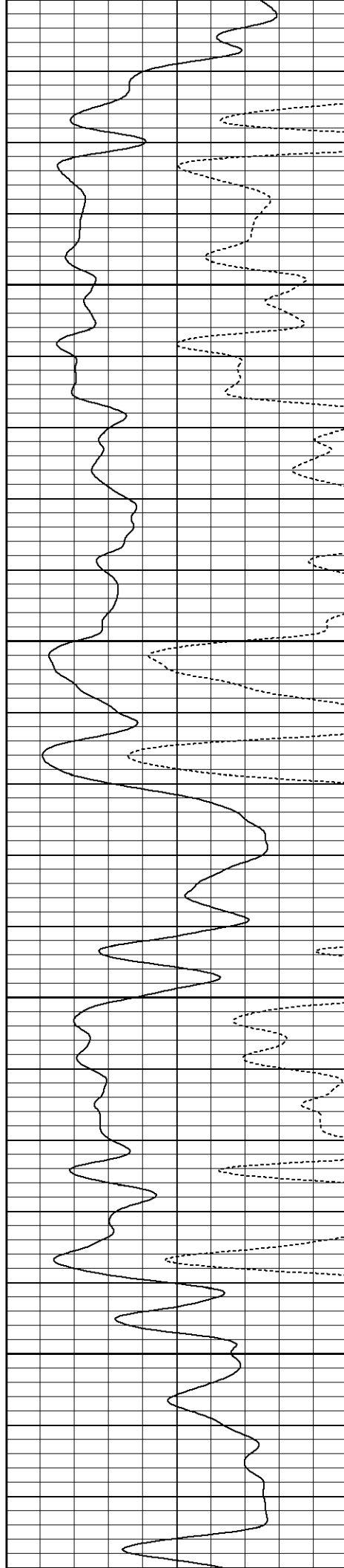


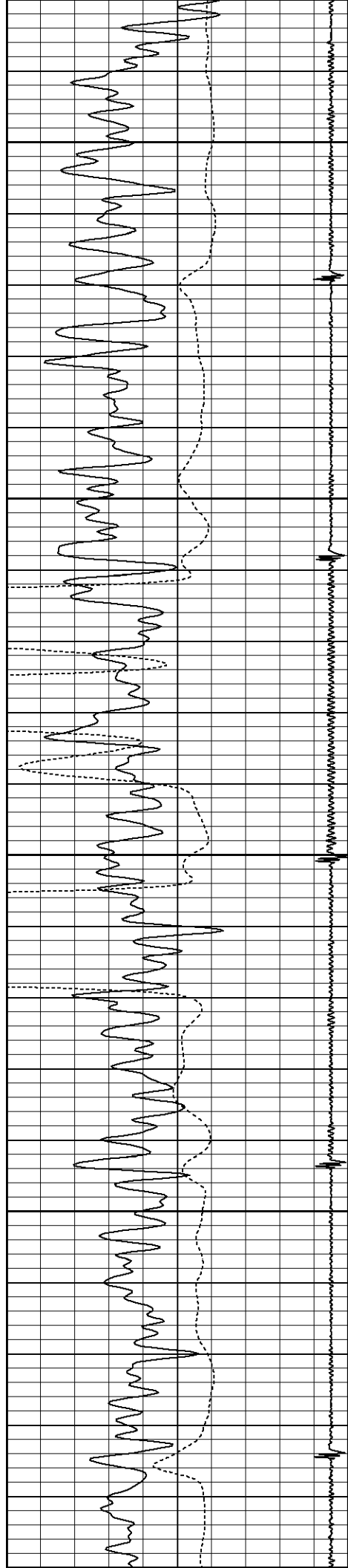
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3400

3450





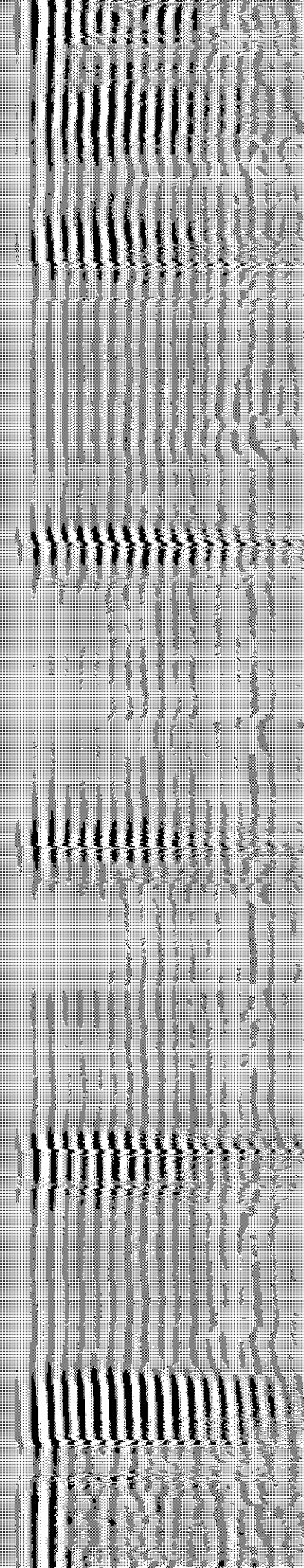
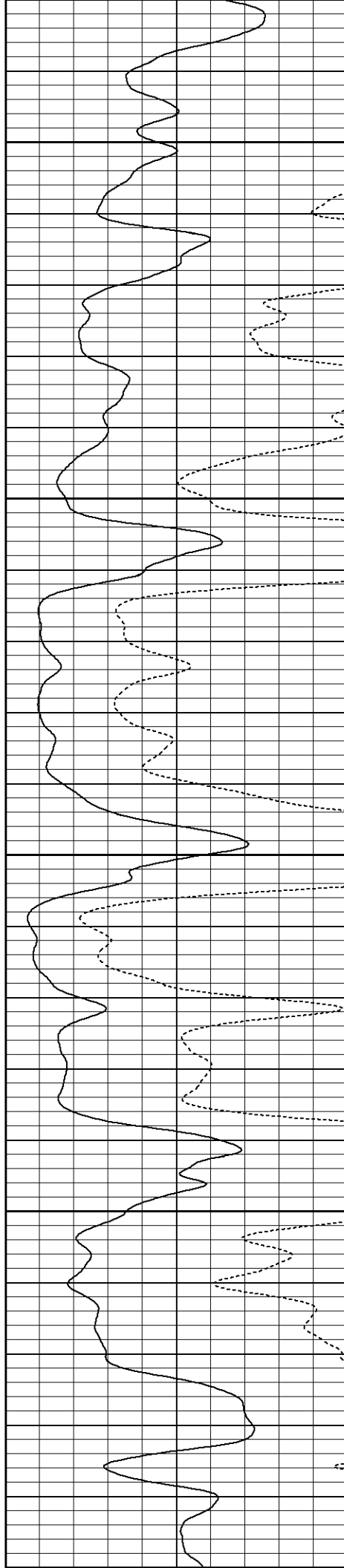
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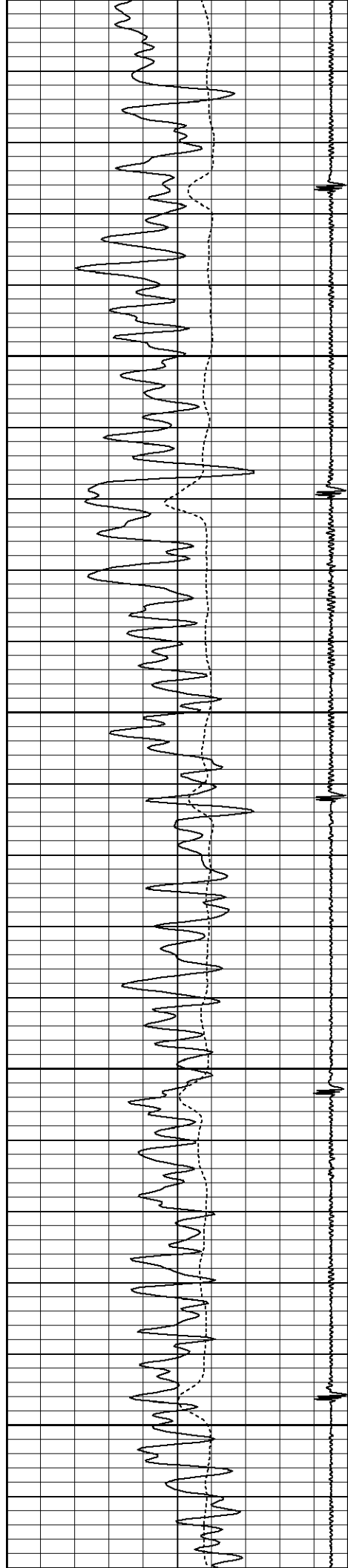
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3700





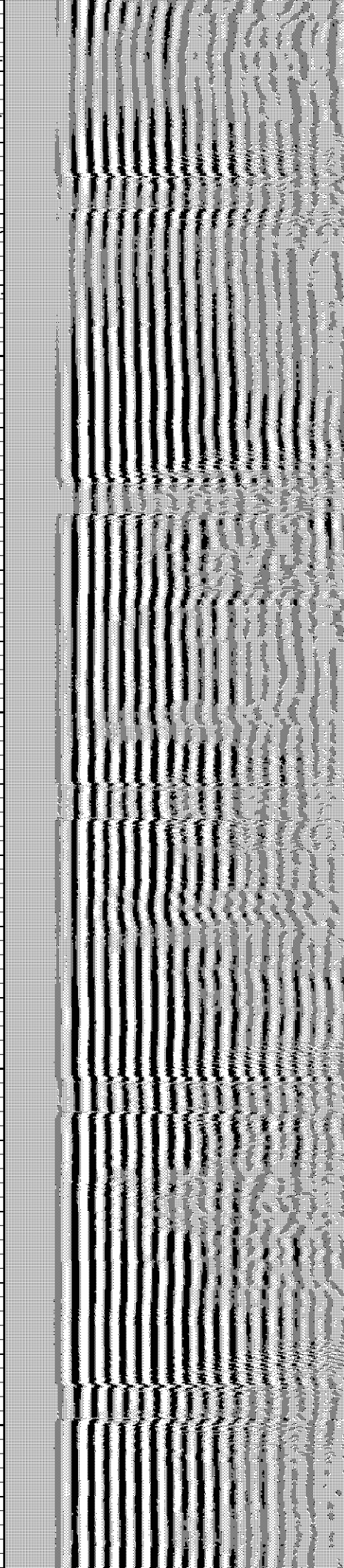
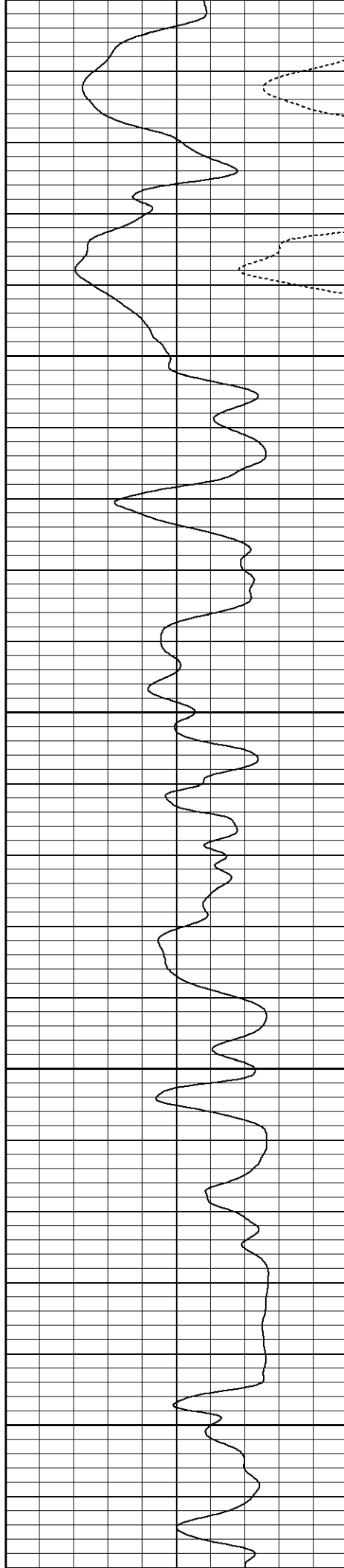
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3900



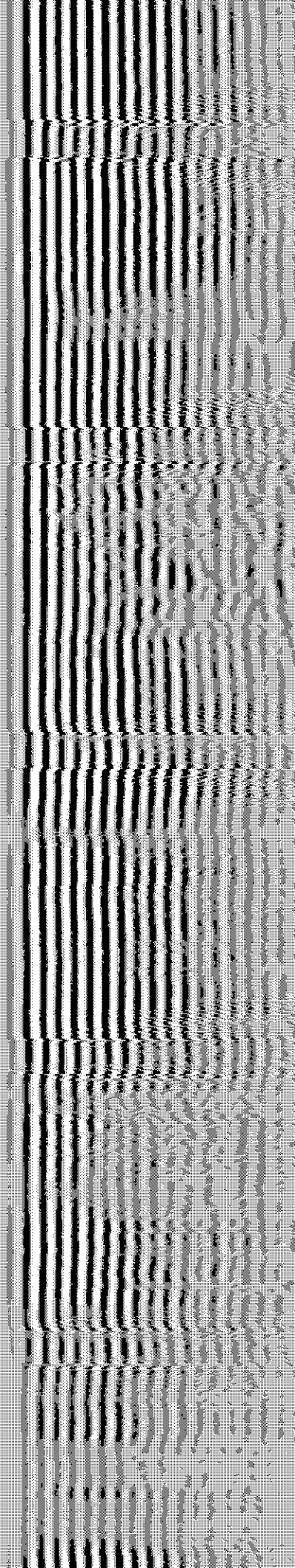
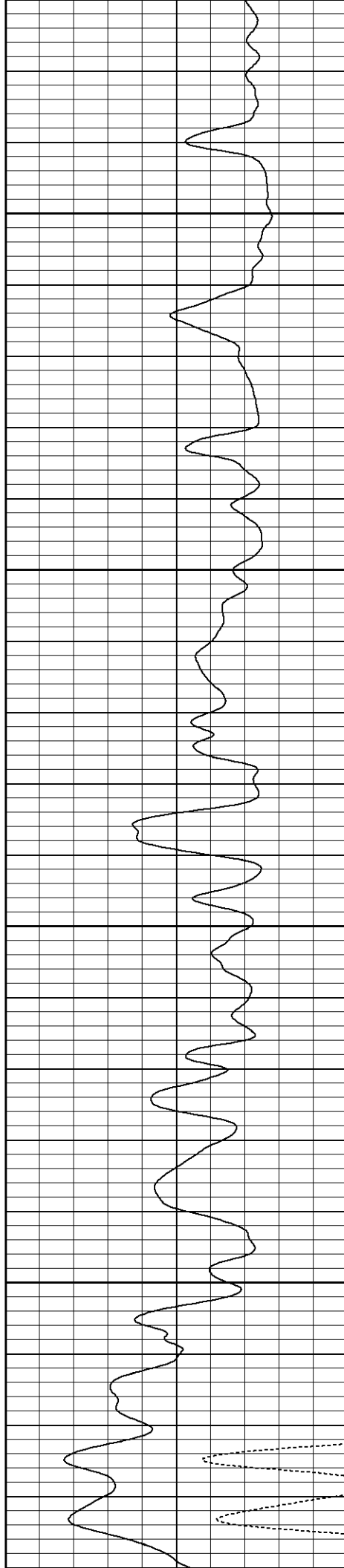


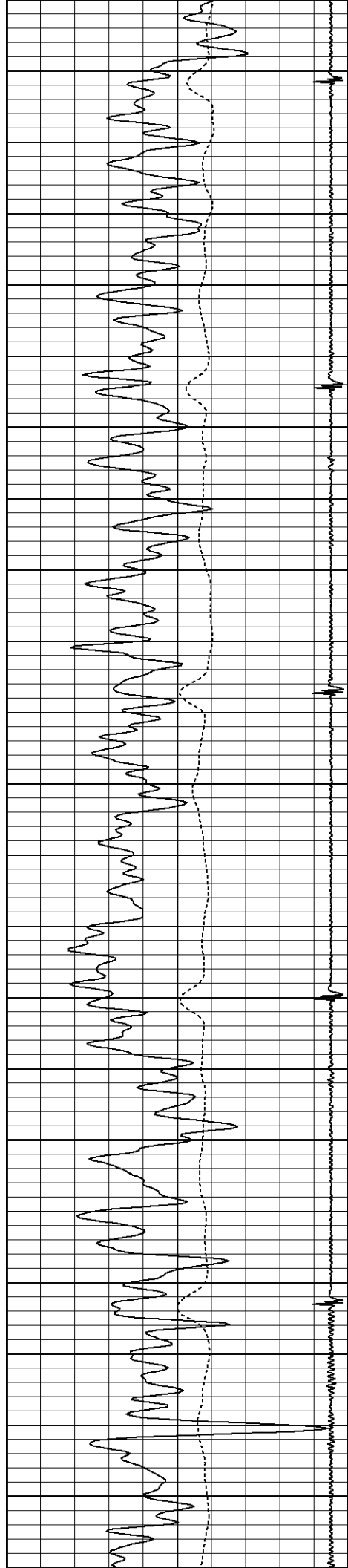
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4000

4050

4100





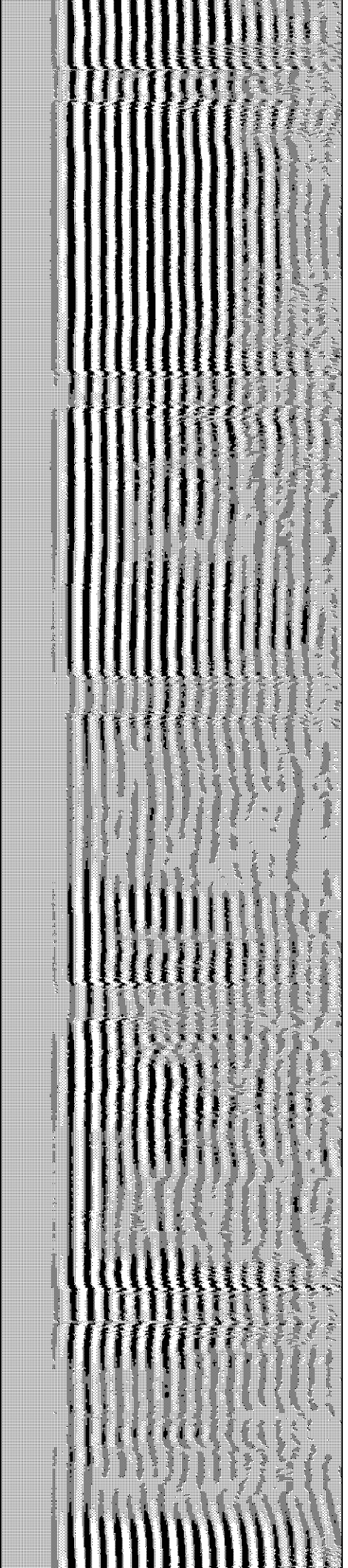
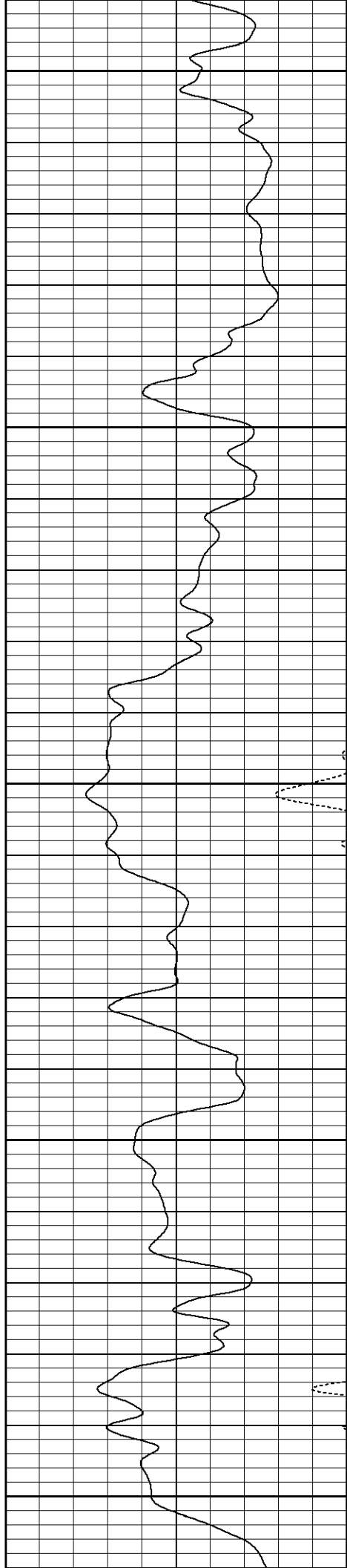
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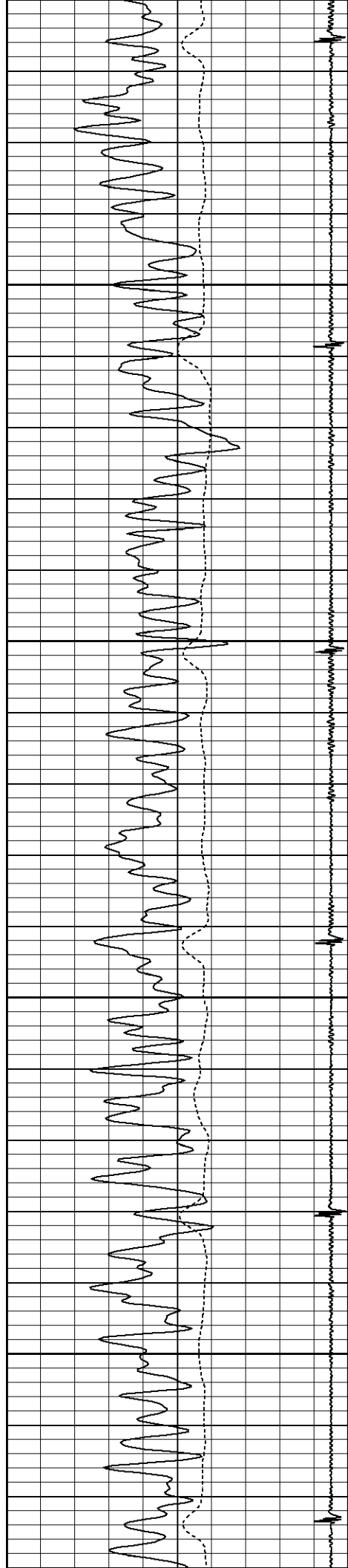
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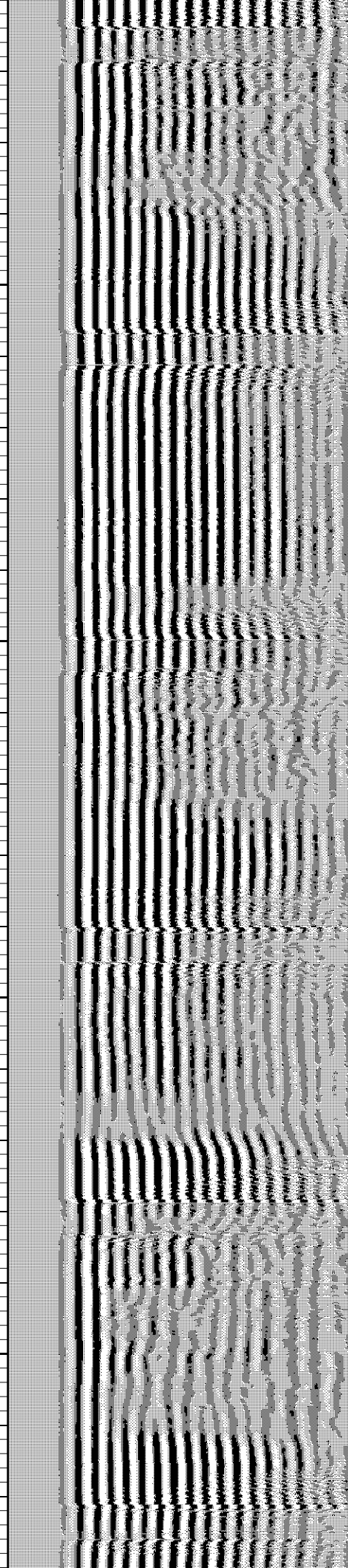
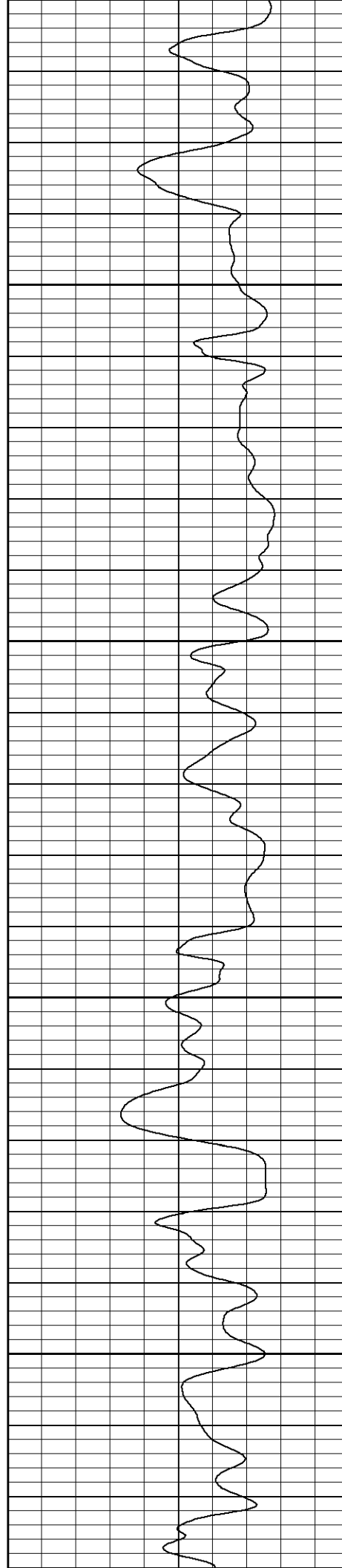


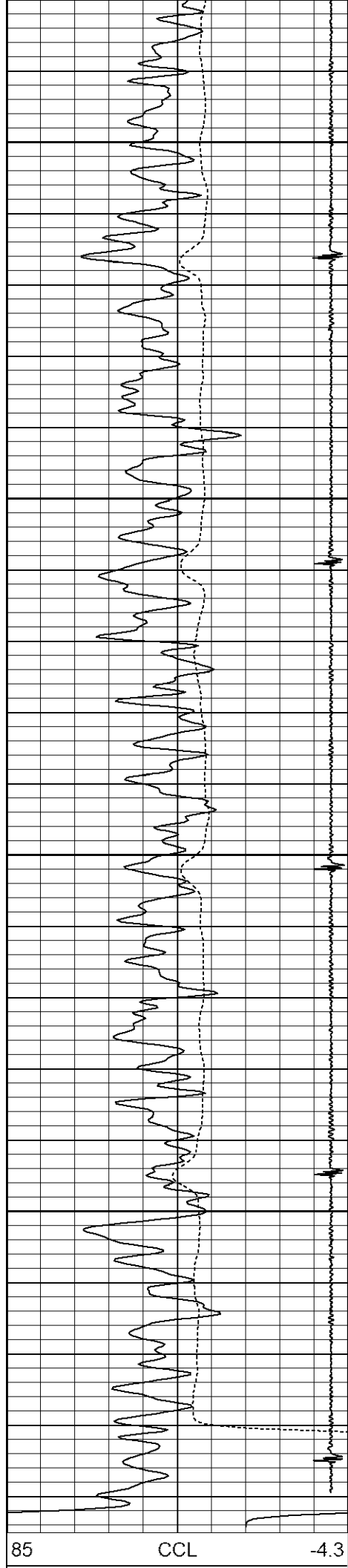
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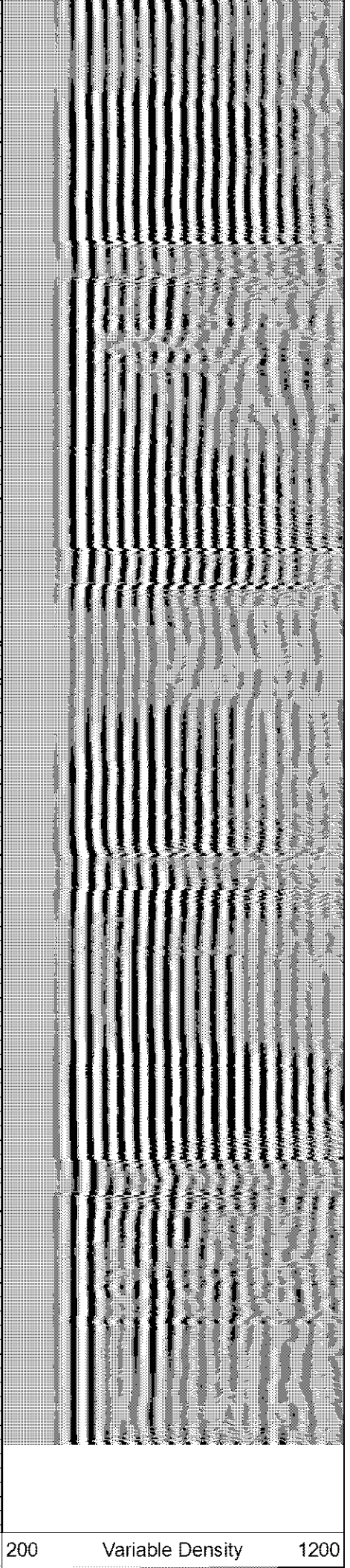
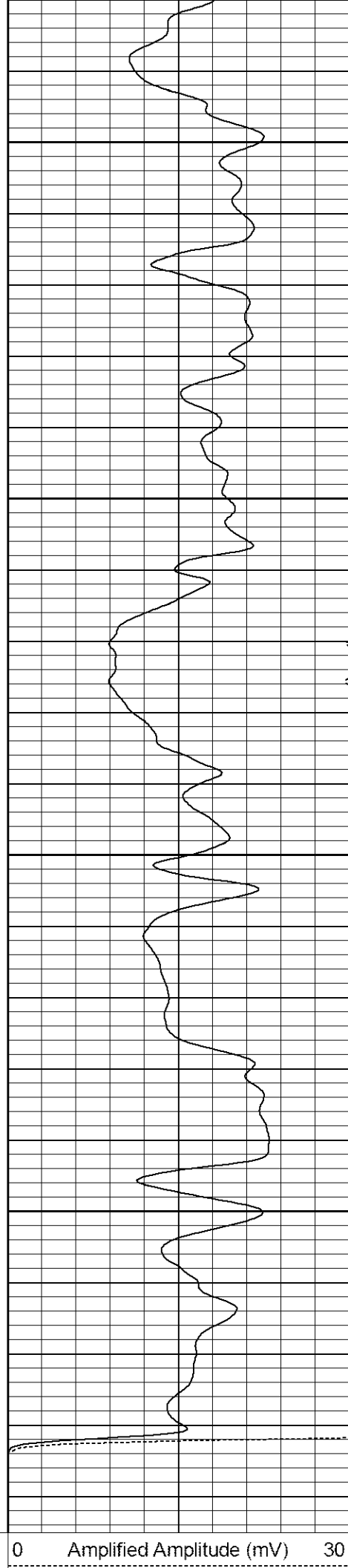


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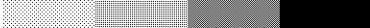
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4750



30	Gamma Ray (GAPI)	130
340	TT3 (usec)	240

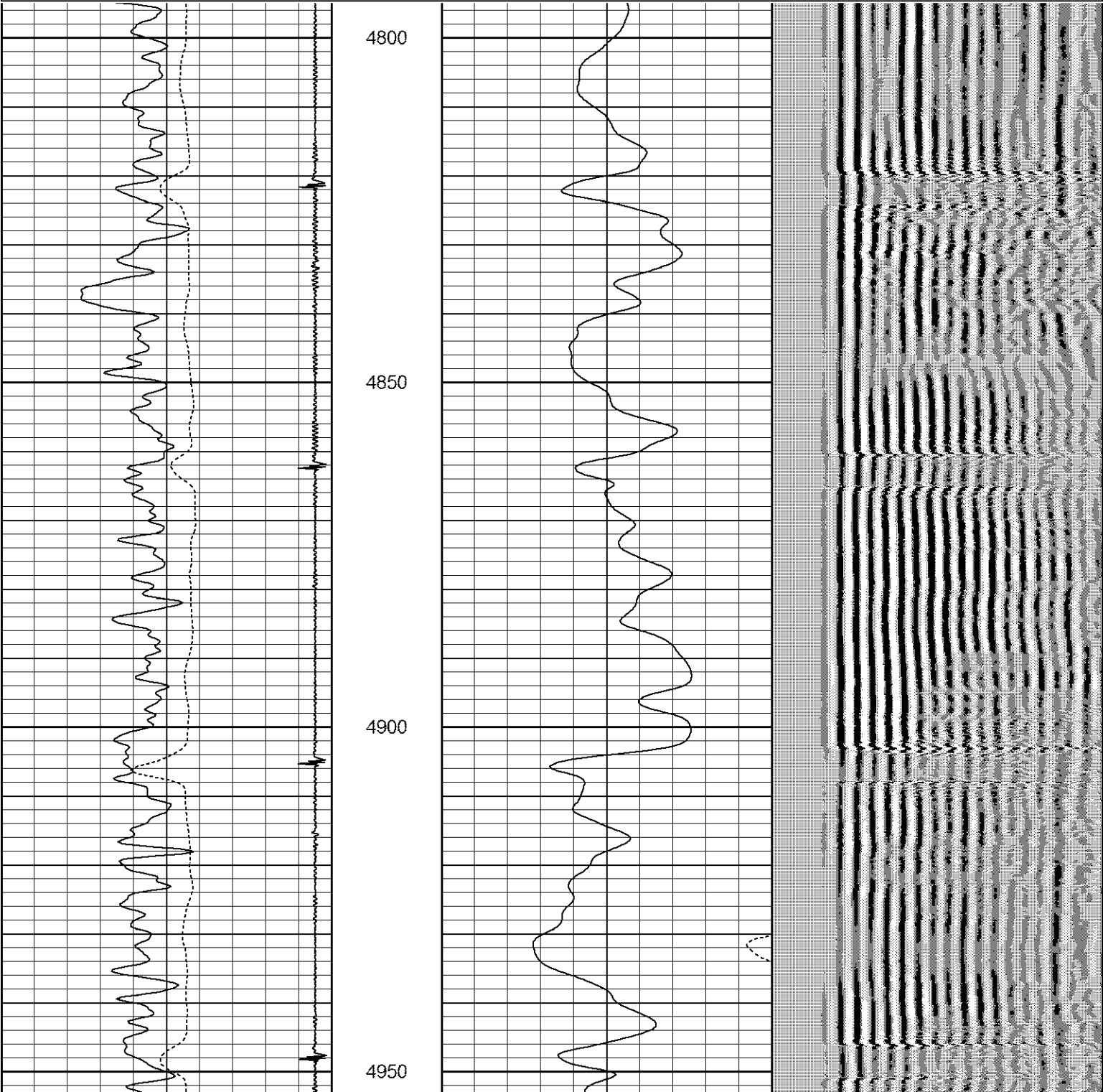
0	Amplitude (mV)	100
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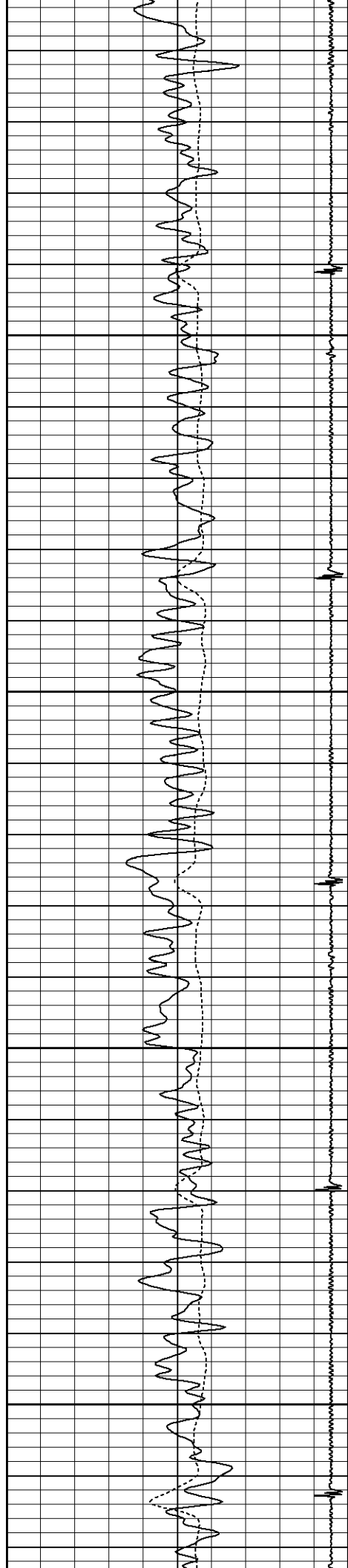


Database File: cblmarley c01-33d.db
 Dataset Pathname: pass2
 Presentation Format: noble en
 Dataset Creation: Thu Jan 26 09:16:18 2012 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

85	CCL	-4.3
0	Gamma Ray (GAPI)	150
340	TT3 (usec)	240

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



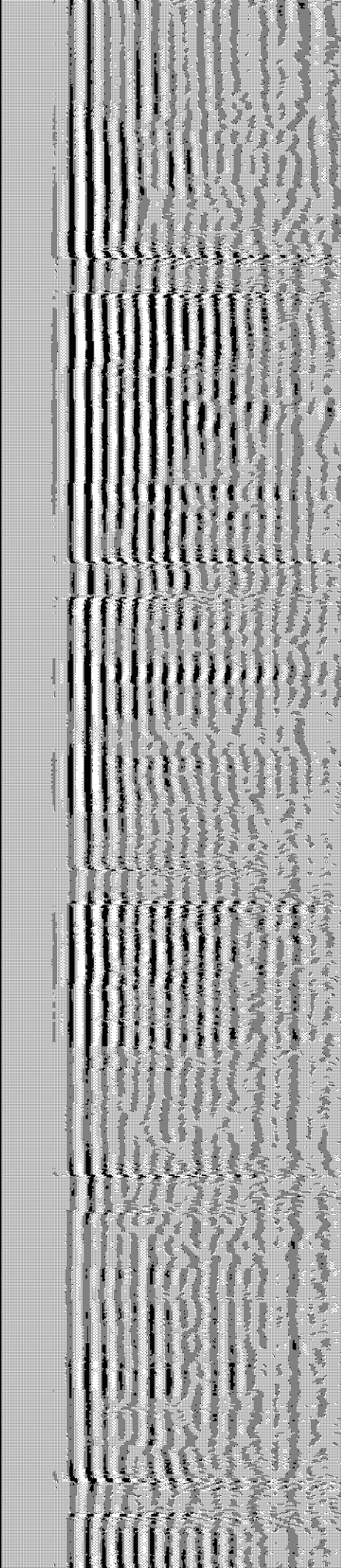
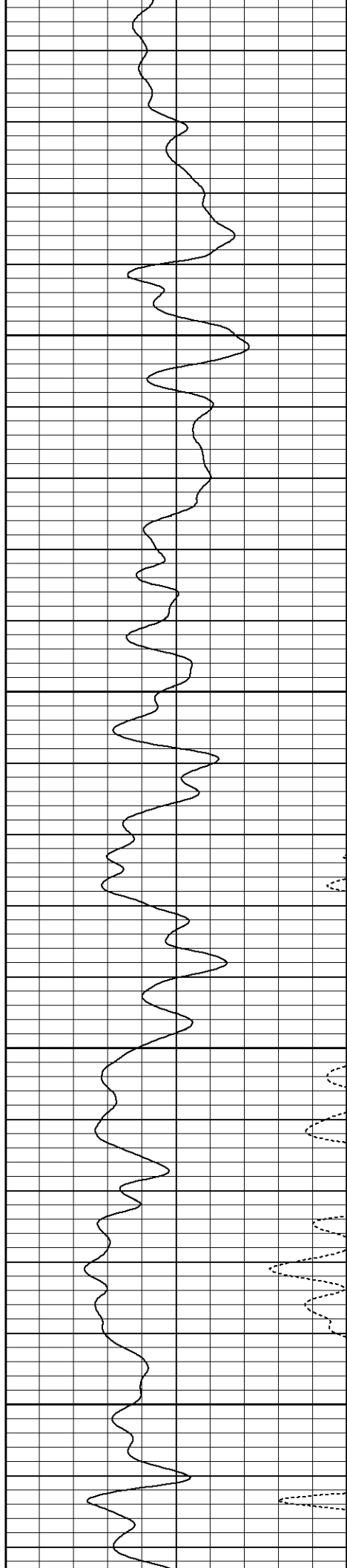


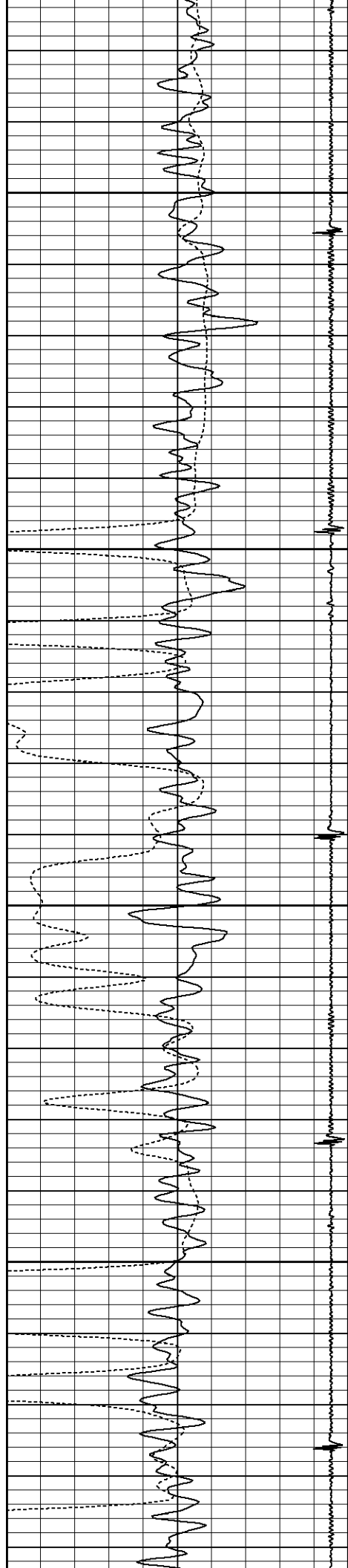
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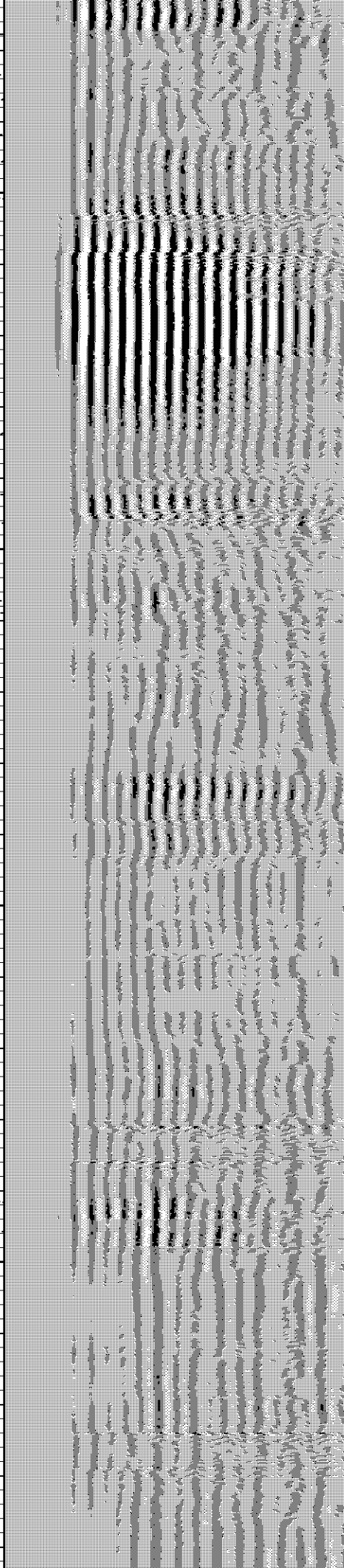
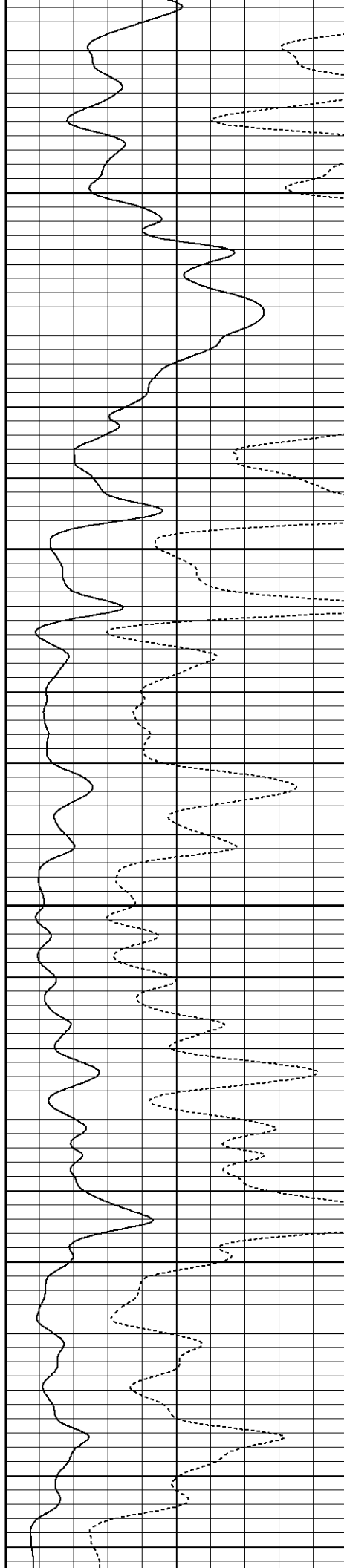


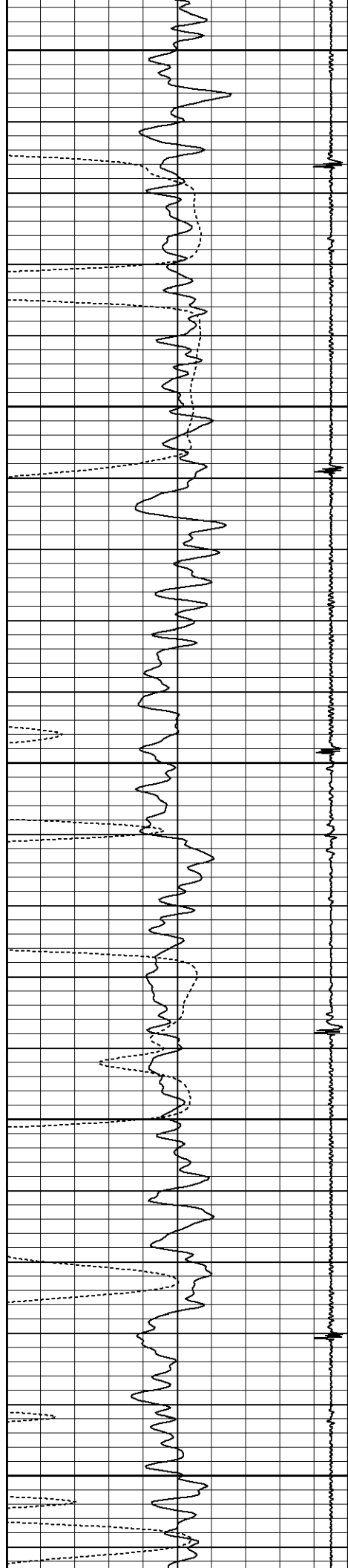
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5350





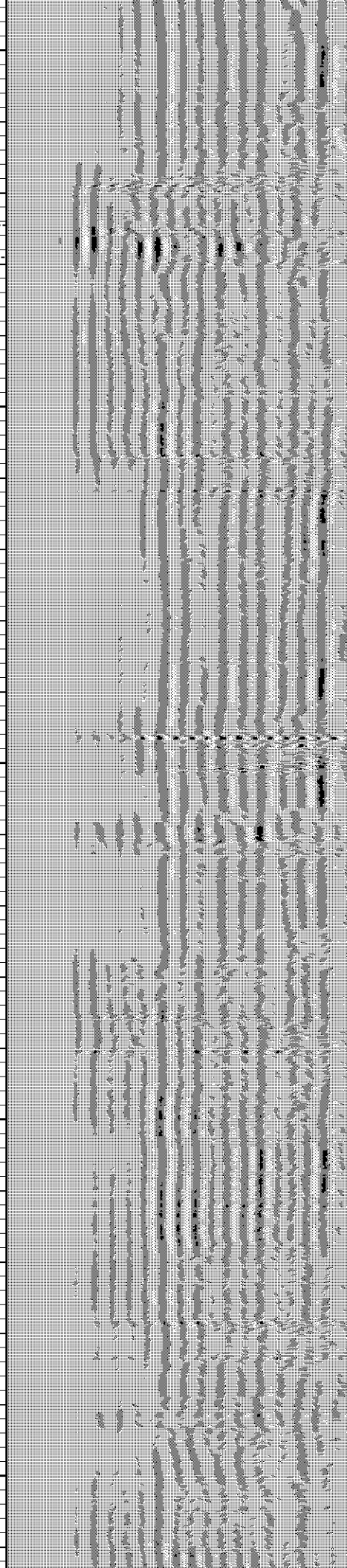
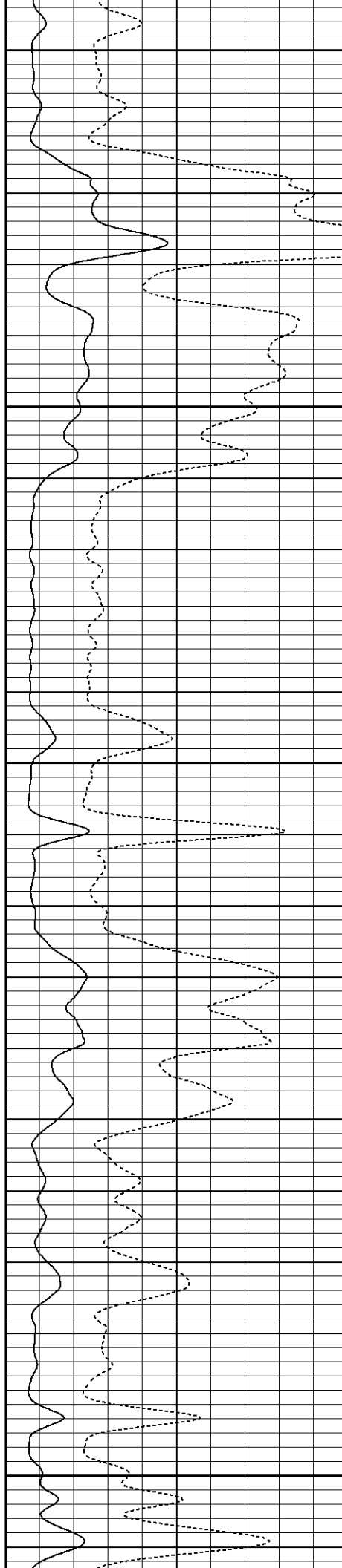
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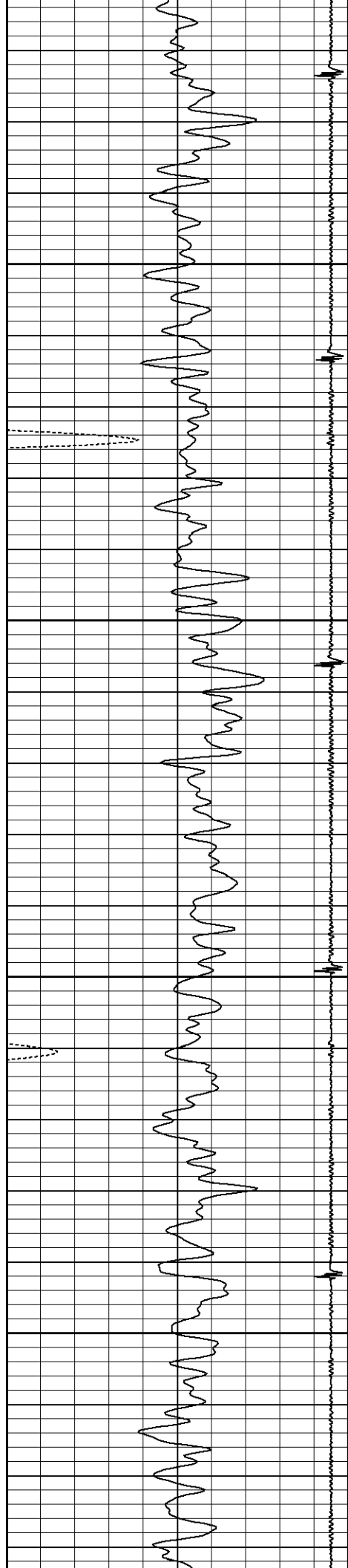
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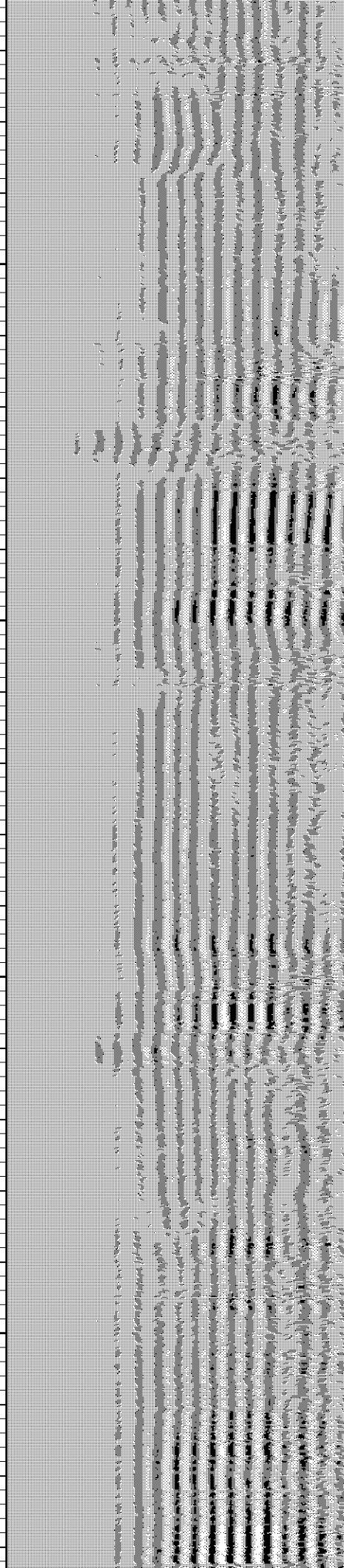
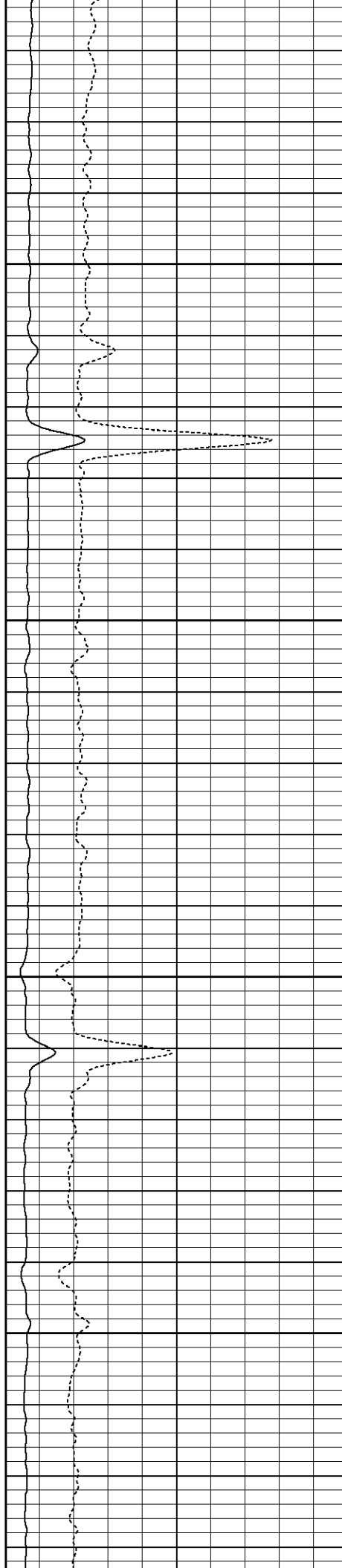


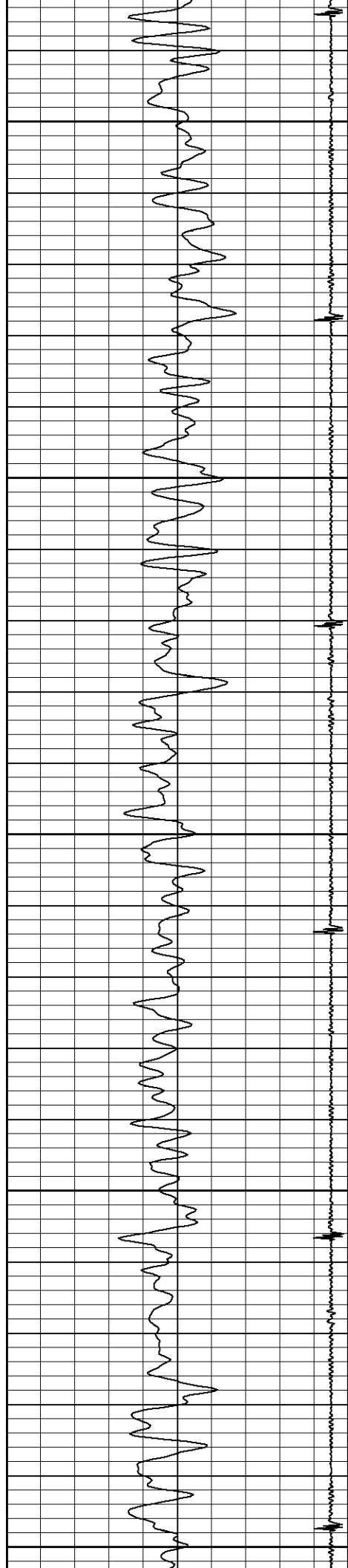
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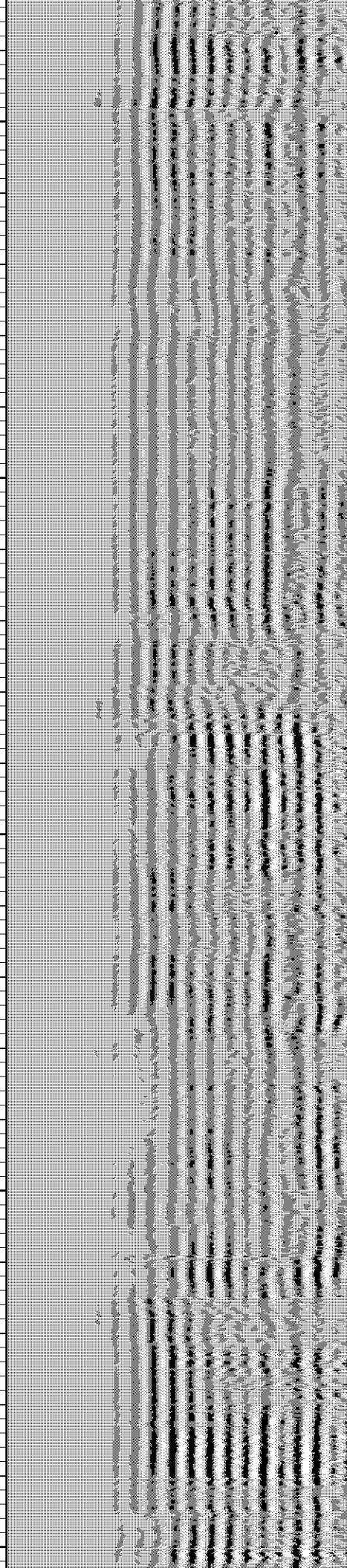
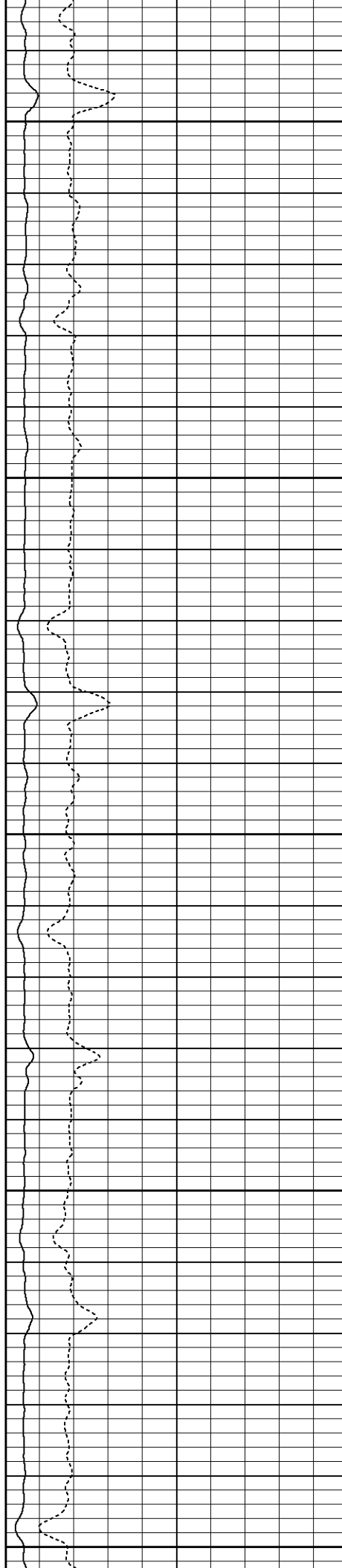
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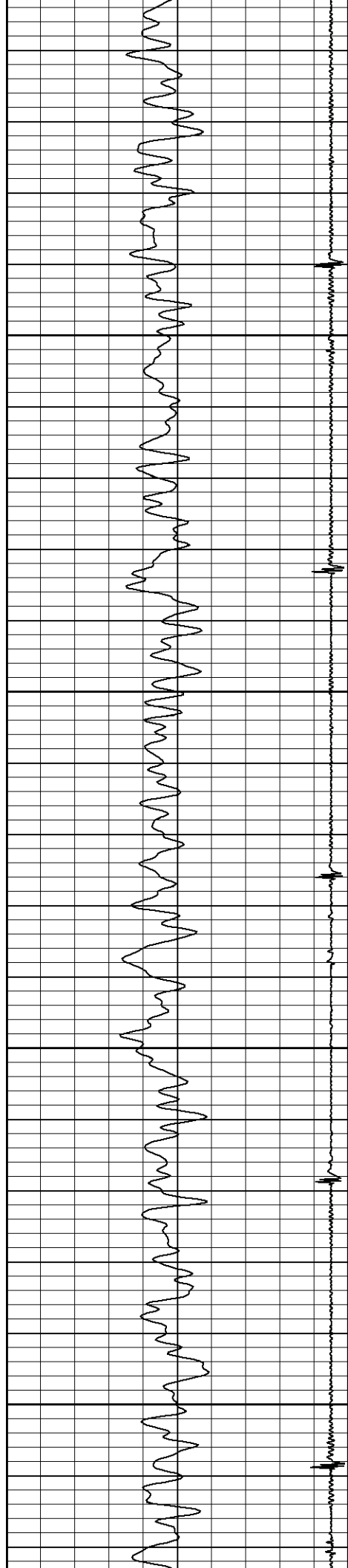
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6050



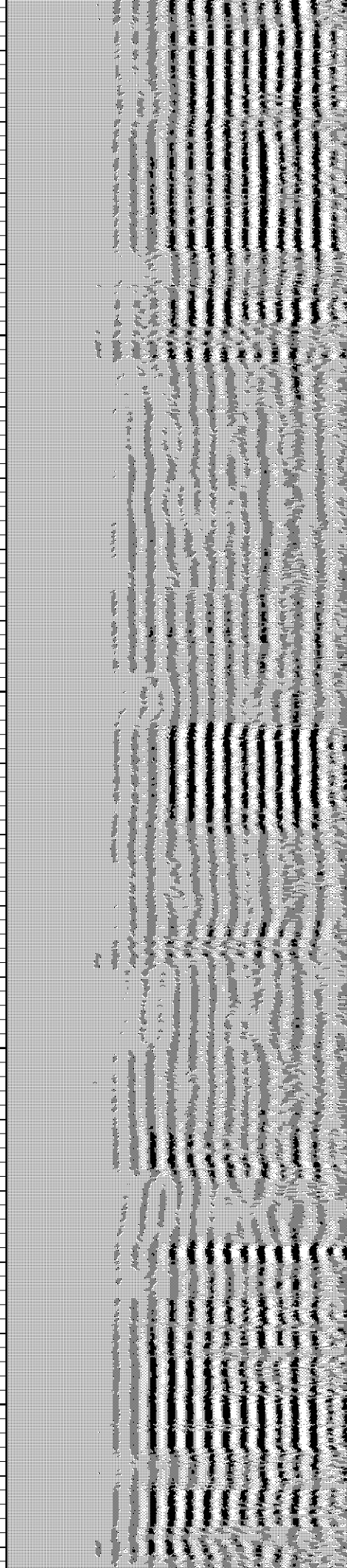
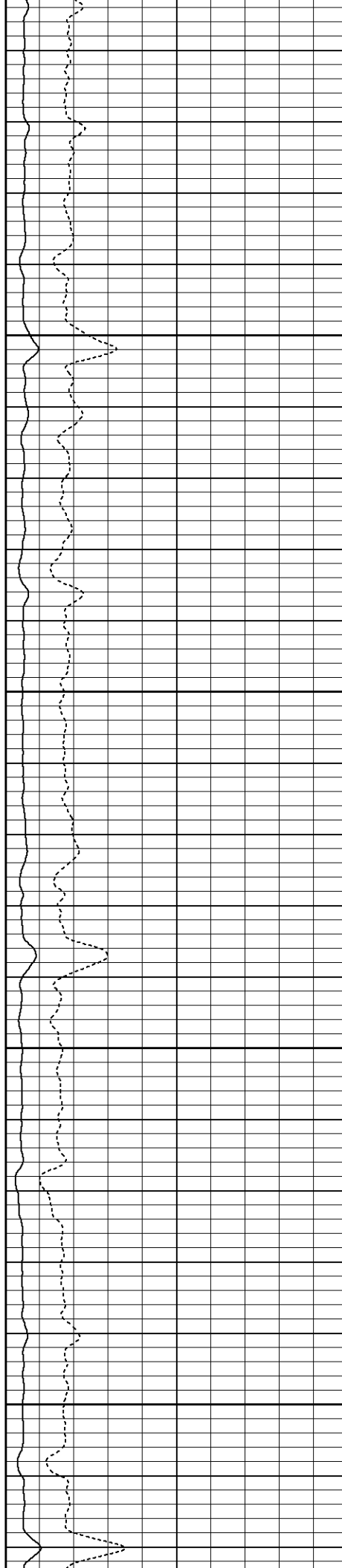


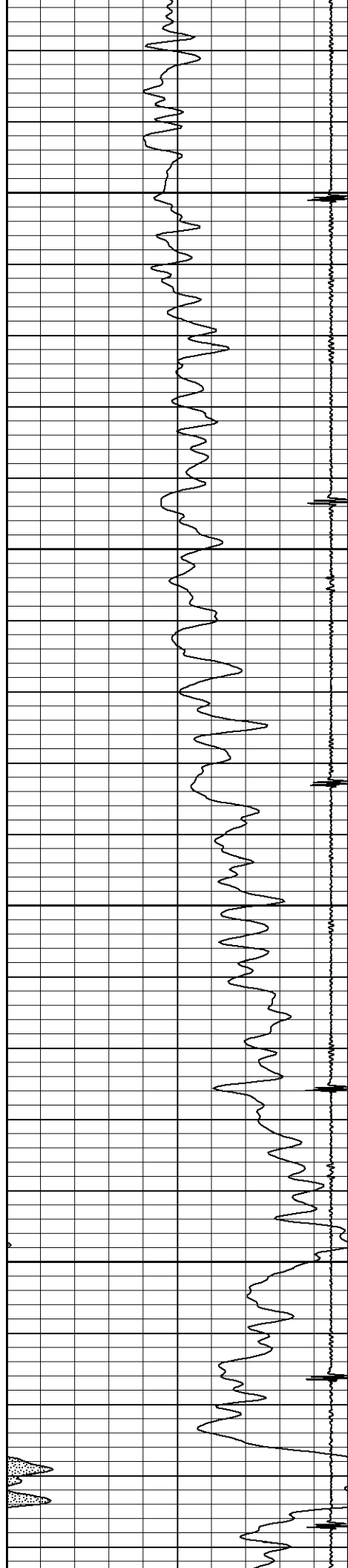
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6150

6200

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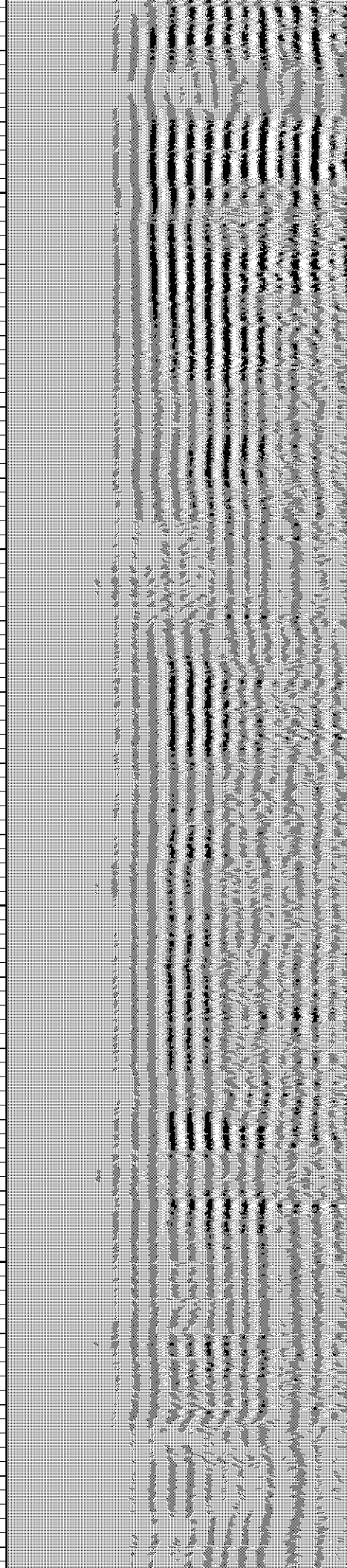
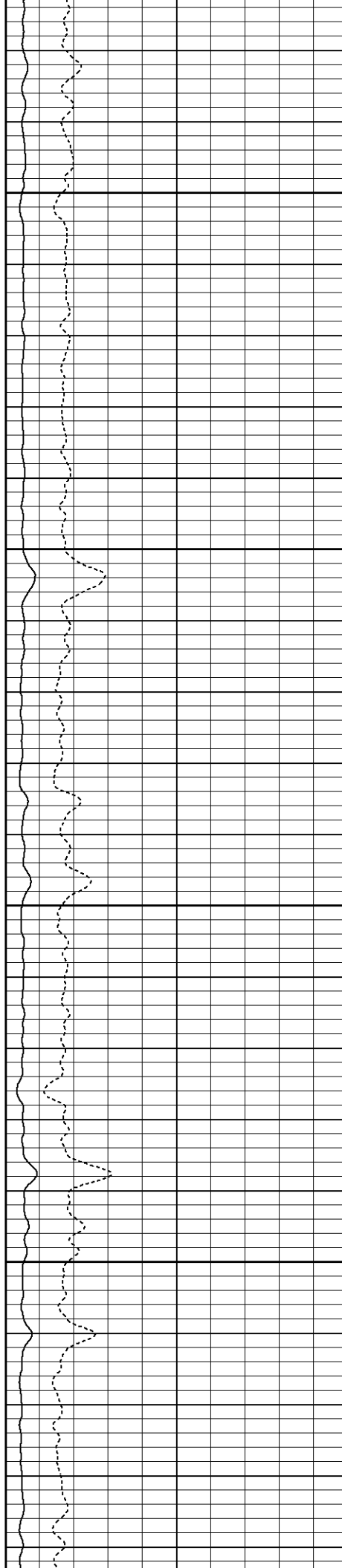
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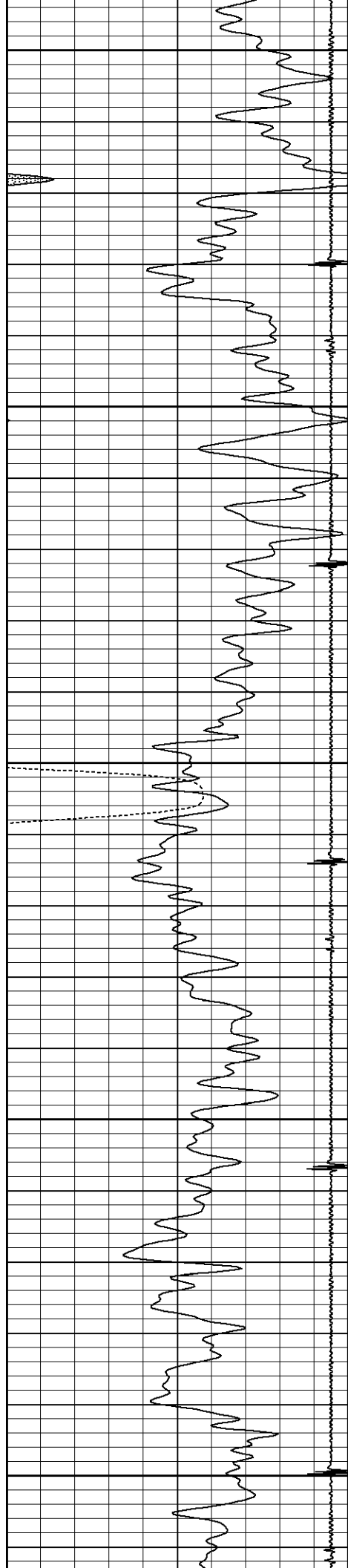
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6400

6450

Flag Joint





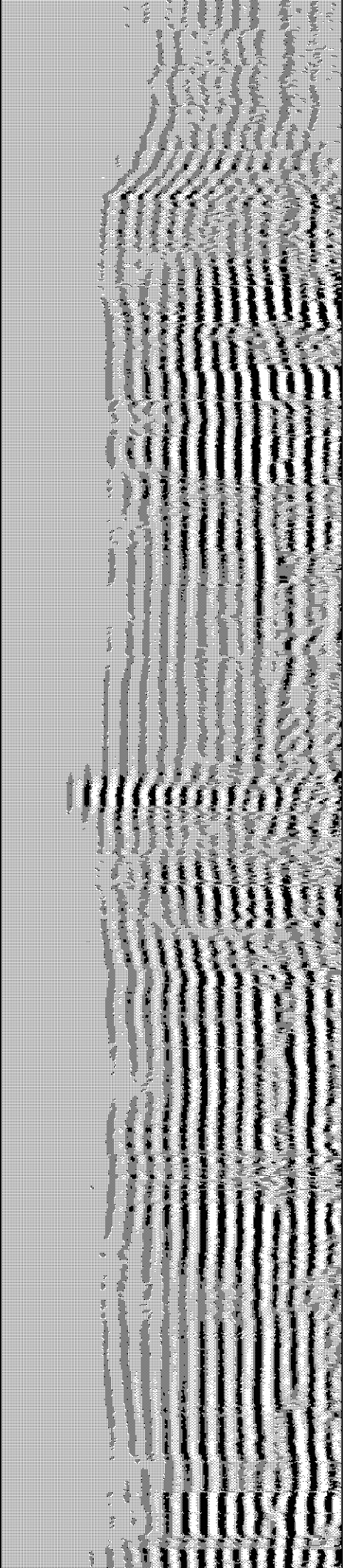
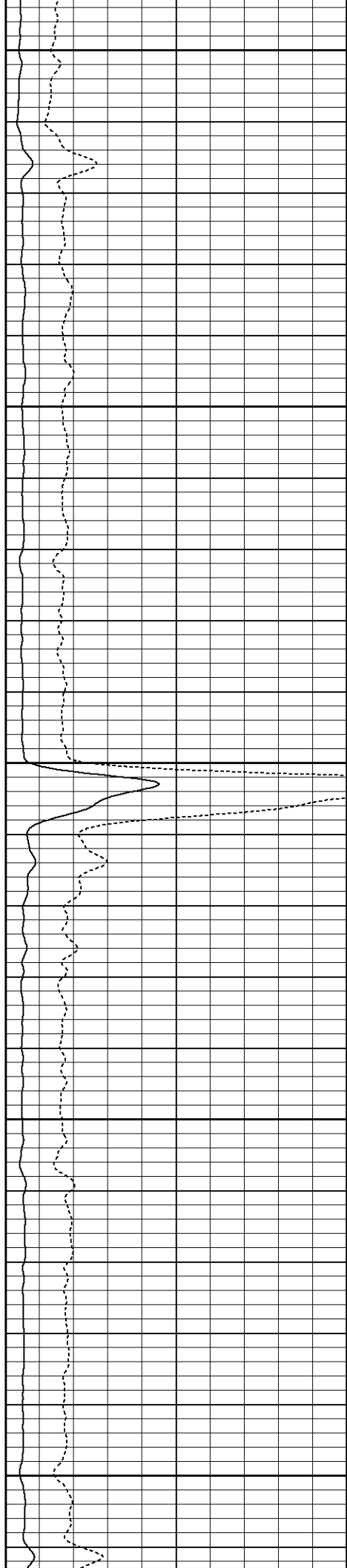
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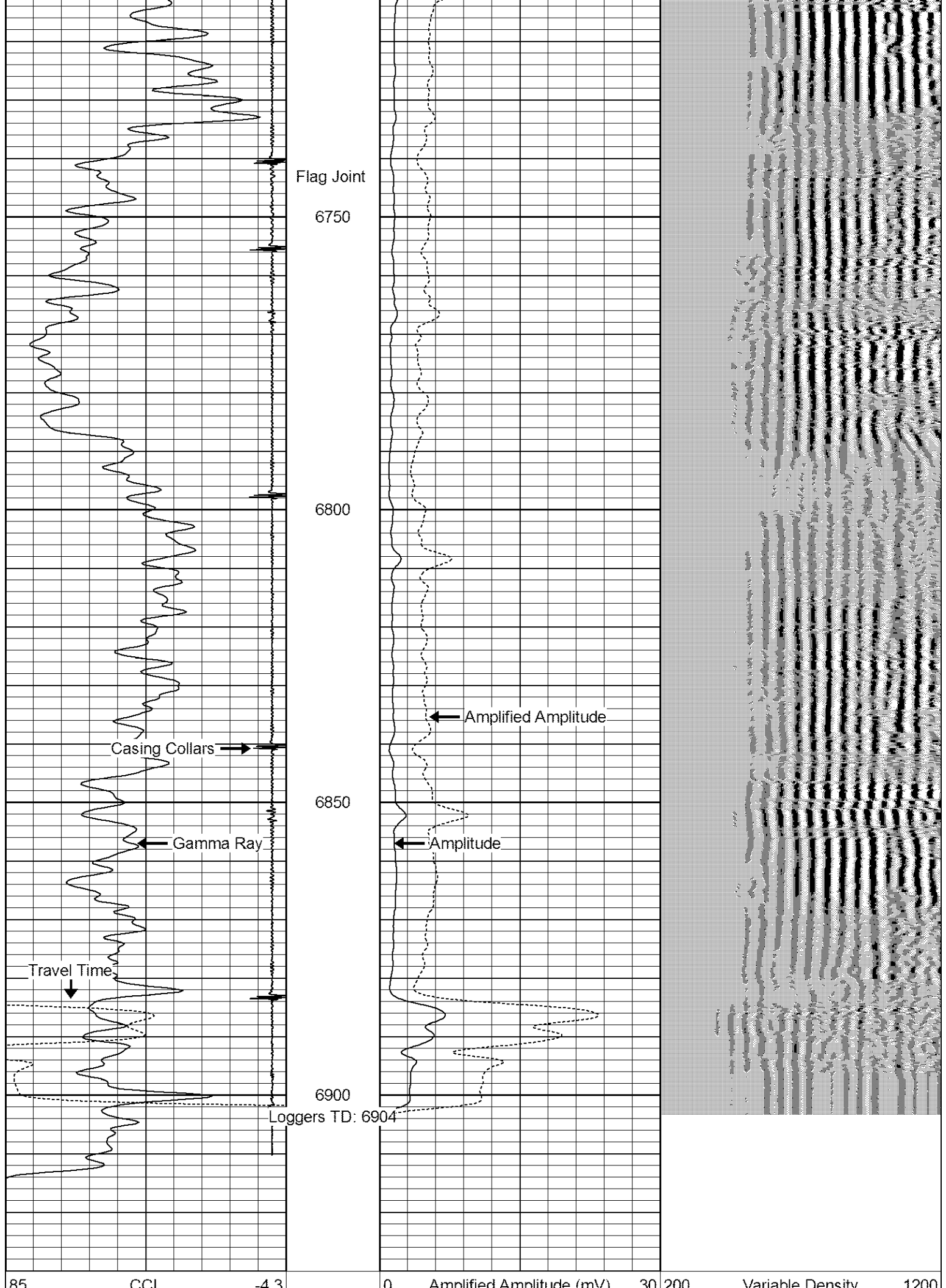
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6600

6650

6700





0	Gamma Ray (GAPI)	150
340	TT3 (usec)	240

0	Amplitude (mV)	100
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Variable Density	1200
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Calibration Report

Database File: cblmarley c01-33d.db
 Dataset Pathname: pass3
 Dataset Creation: Thu Jan 26 09:34:08 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