

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

Company Noble Energy INC.
Well MOSER H28-29
Field Wattenberg
County Weld State Colorado

Location: API #: 05123317690000
1161' FNL & 1223' FWL
NW NW
SEC 28 TWP 3N RGE 65W
Permanent Datum GL Elevation 4843
Log Measured From KB 13'
Drilling Measured From KB
Other Services
K.B. 4856
D.F. 4855
G.L. 4843

Date February 7, 2012

Run Number One
Depth Driller 7800
Depth Logger 7691
Bottom Logged Interval 7690
Top Log Interval 710
Casing Size 4 1/2"
Type Fluid Water
Max. Recorded Temp. 241 deg F
Estimated Cement Top 1500 est.
Time Well Ready Crane
Time Logger On Bottom AM
Unit Number 4367
Tool Size / ID Number 2.75 Probe 101010 2.75 Probe 110802
Location Plattville, CO
Recorded By K. Monaghan
Witnessed By J. Brnak

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

Run Number	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		738
Prot. String								
Production String	4 1/2"			11.6 lb/ft M-80		Surface		7775
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

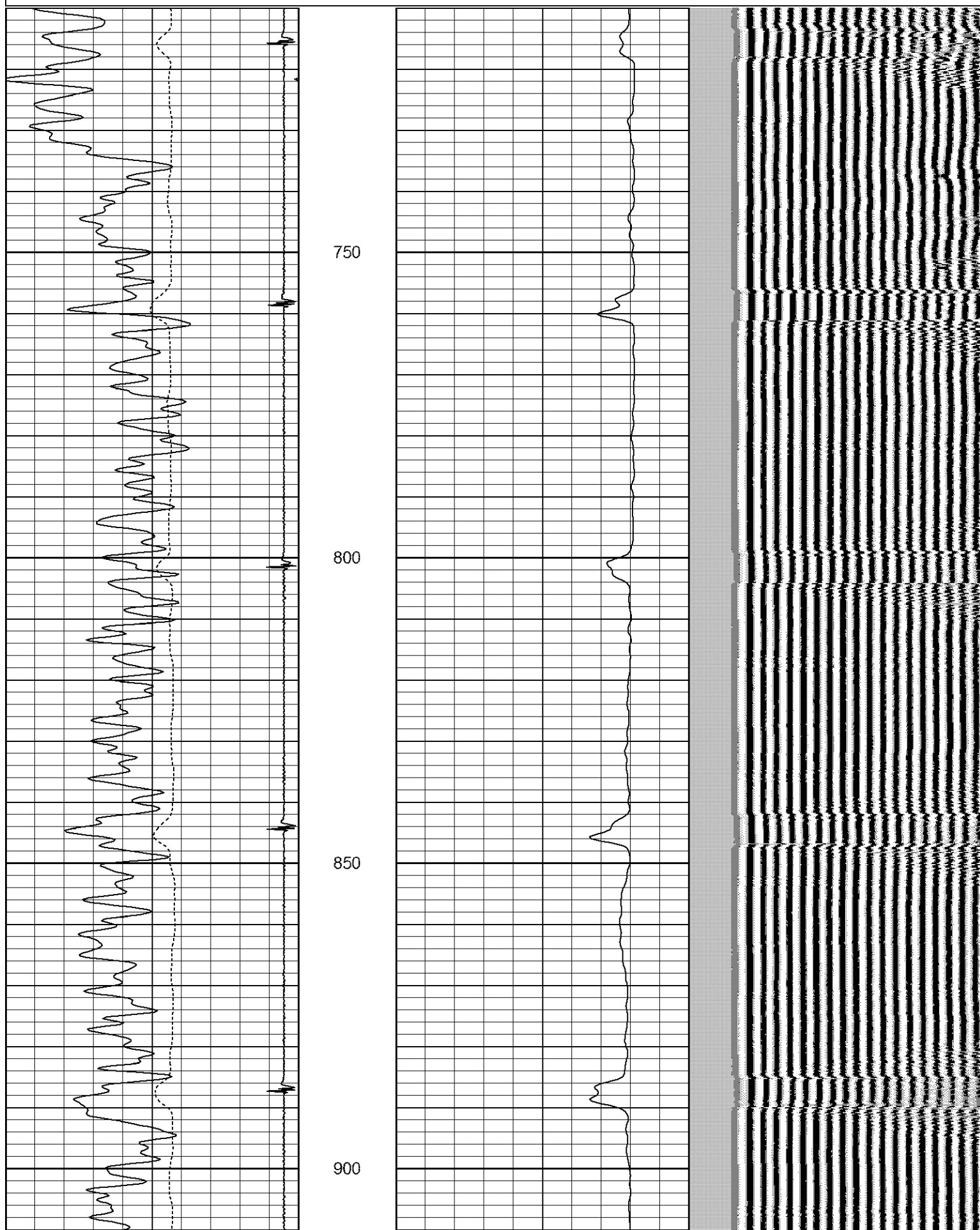
Thank You For Choosing Superior Well Services!!!
API# 05-123-31769-0000
Correlated to PSI's
Compensated Density / Compensated Neutron / Microlog
Dated: January 20, 2012
Directions: 43 & 30, W 6/10, Into

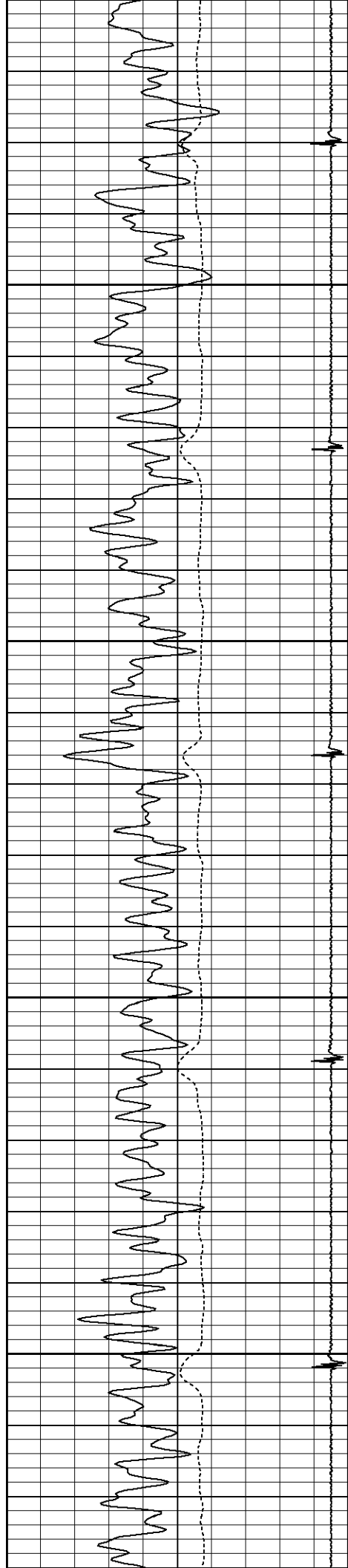
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Dataset Pathname: pass4
Presentation Format: noble en
Dataset Creation: Tue Feb 07 09:59:57 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

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

0	Amplified Amplitude (mV)	30	200
0	Amplitude (mV)	100	

Variable Density	1200
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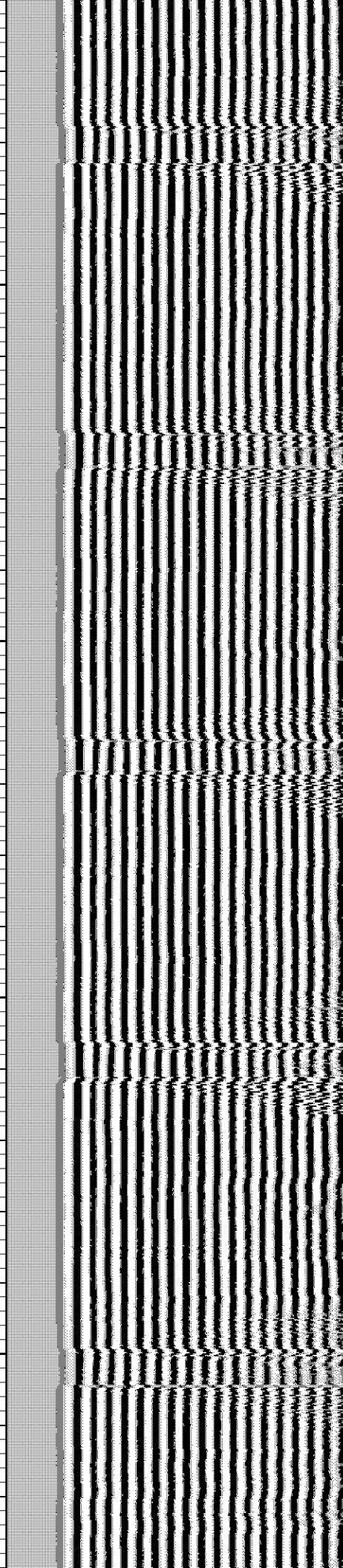
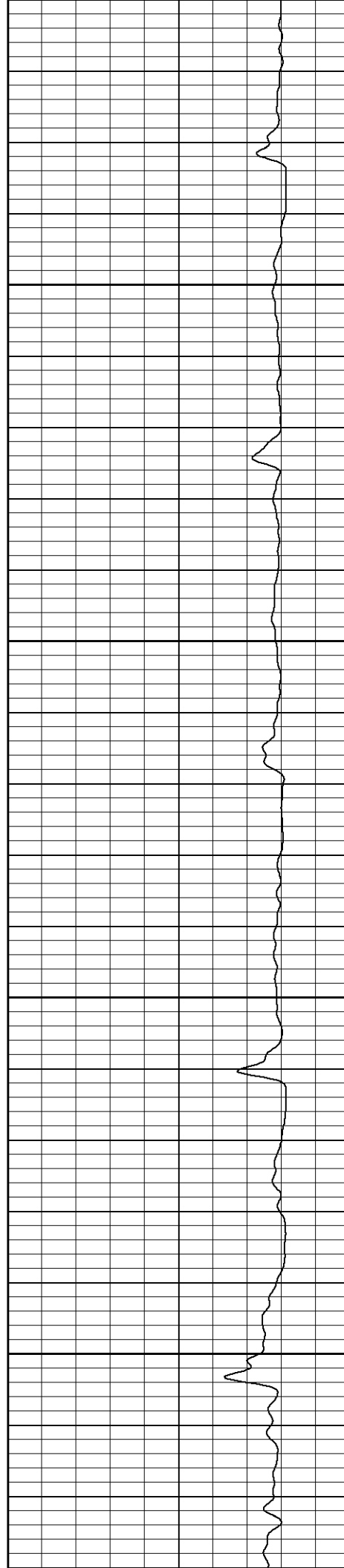


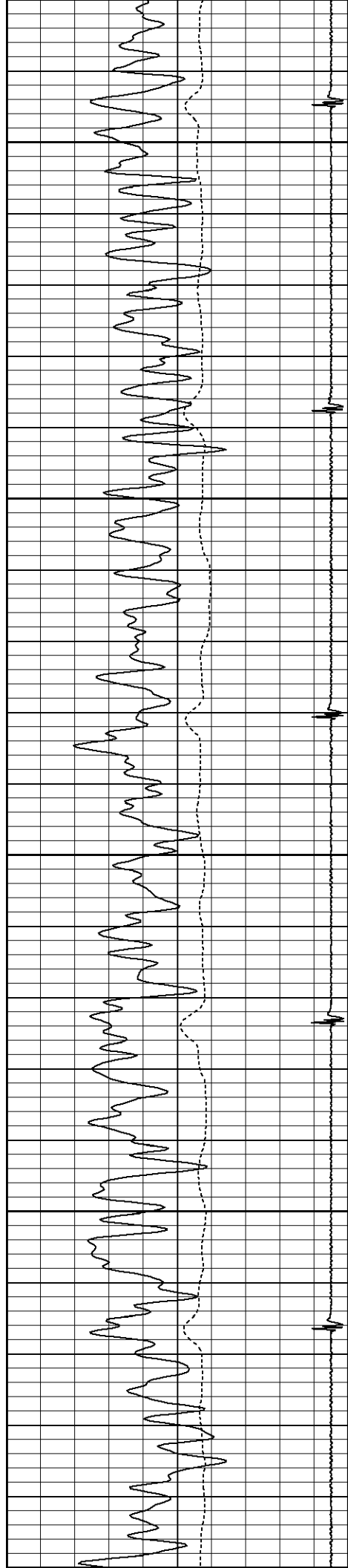
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1000

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1100





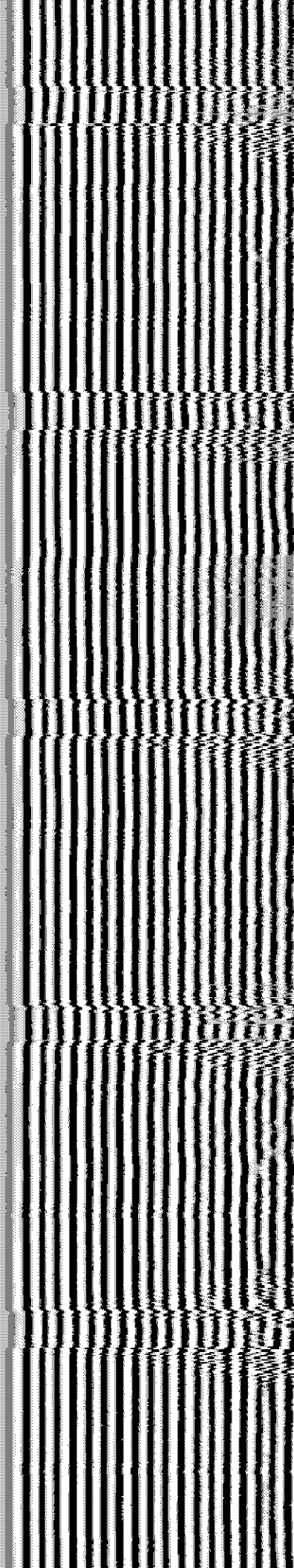
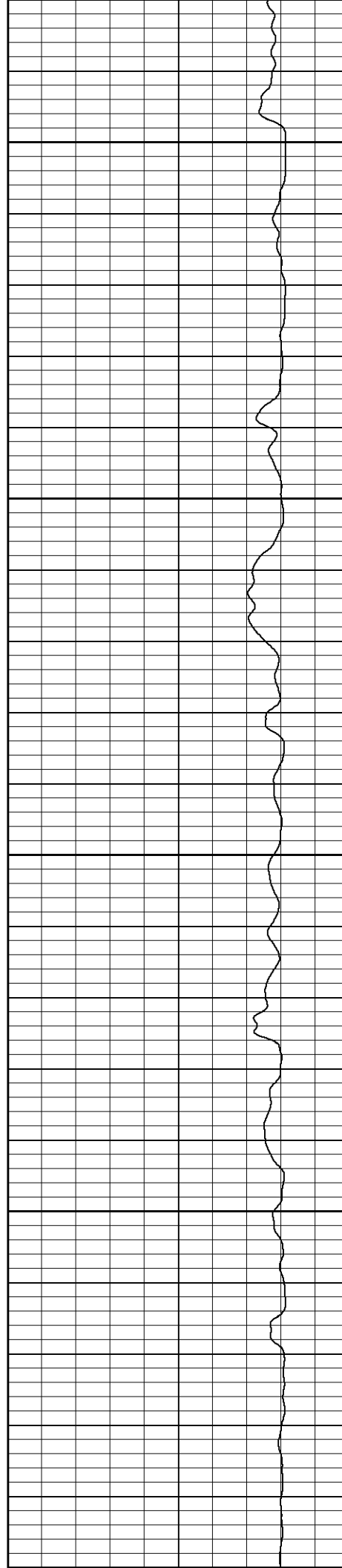
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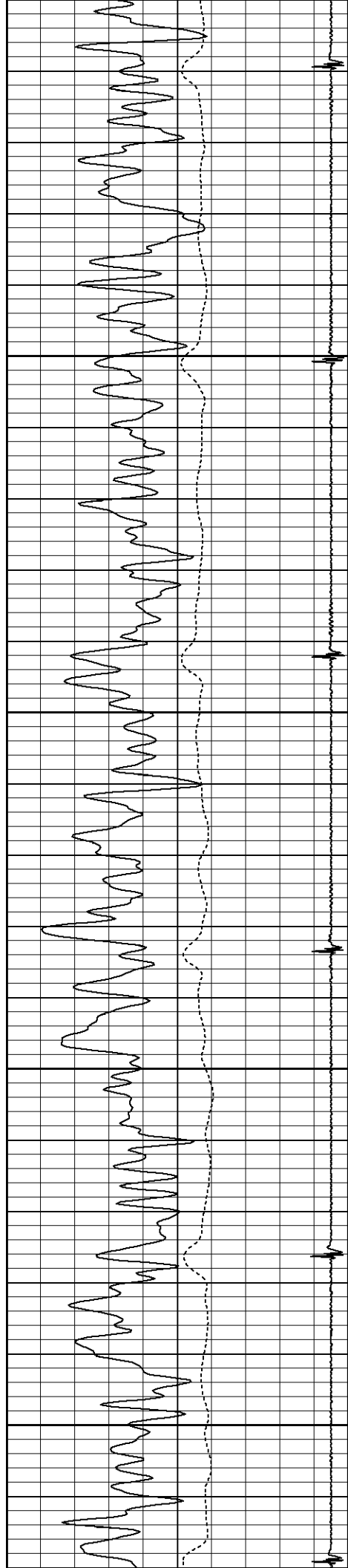
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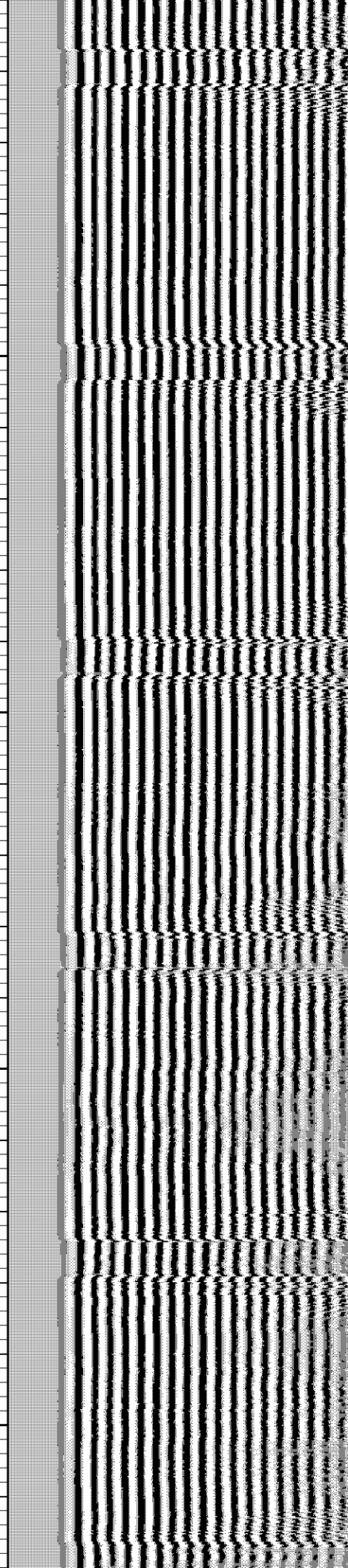
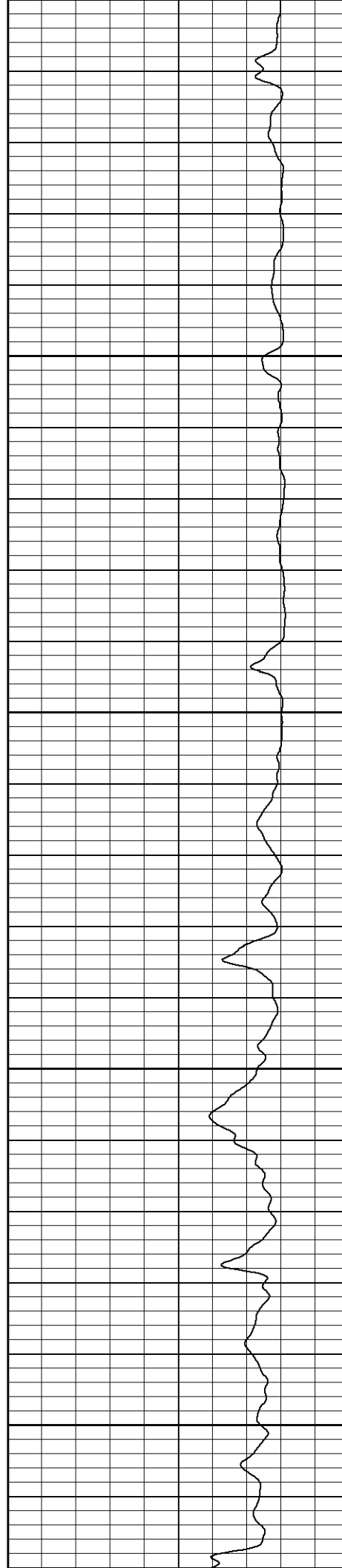
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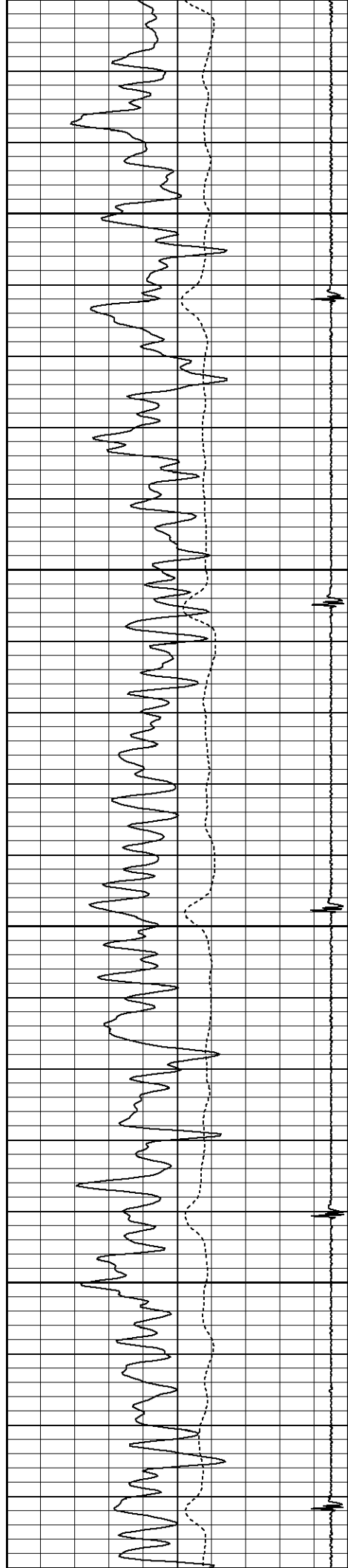
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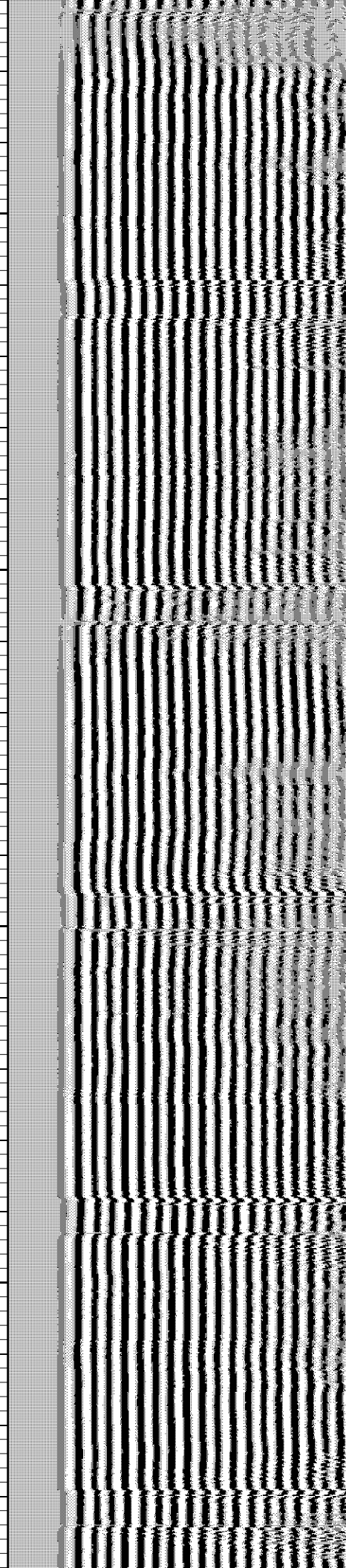
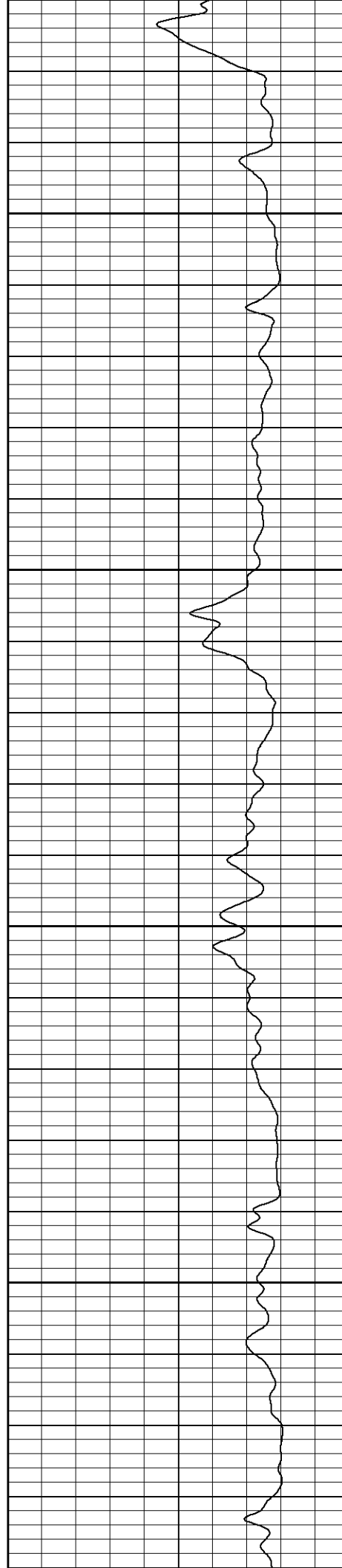


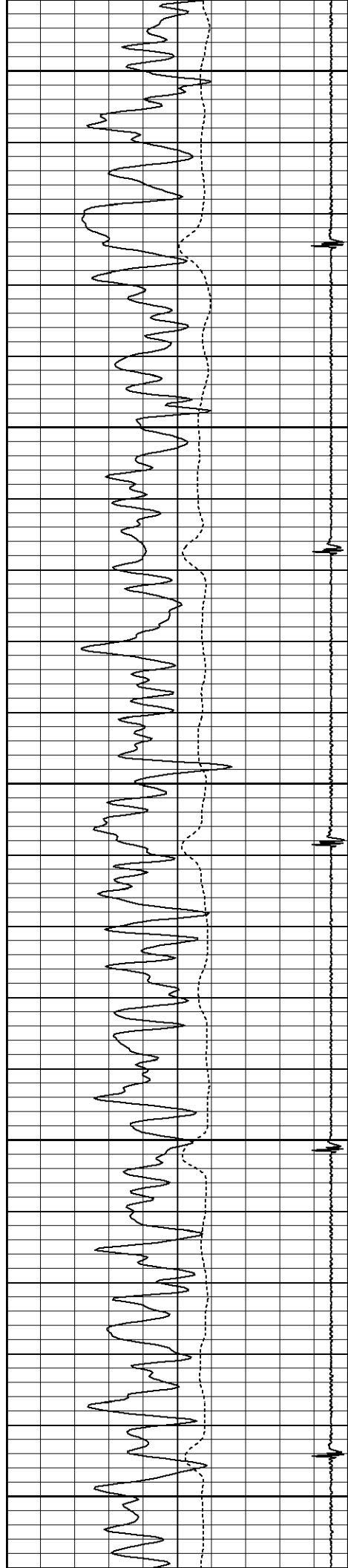
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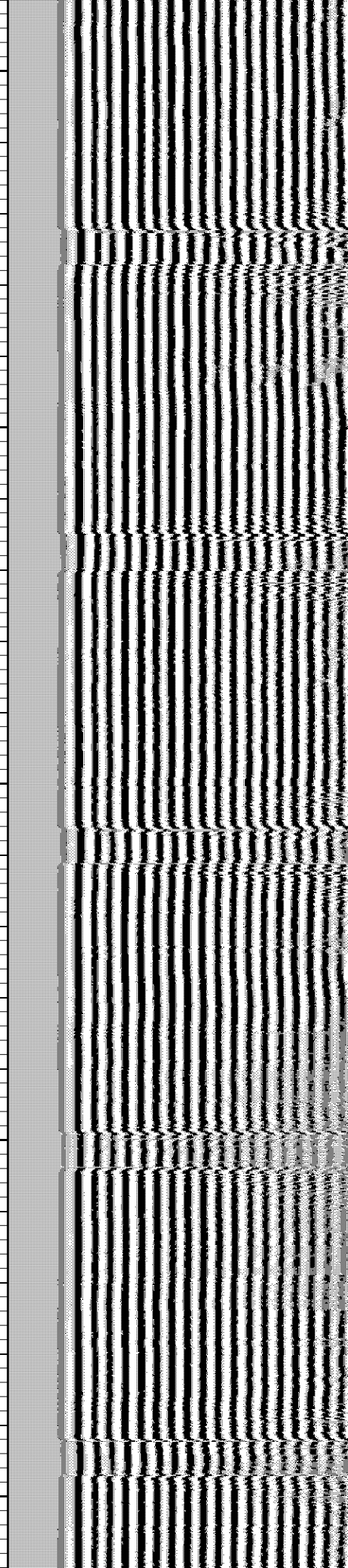
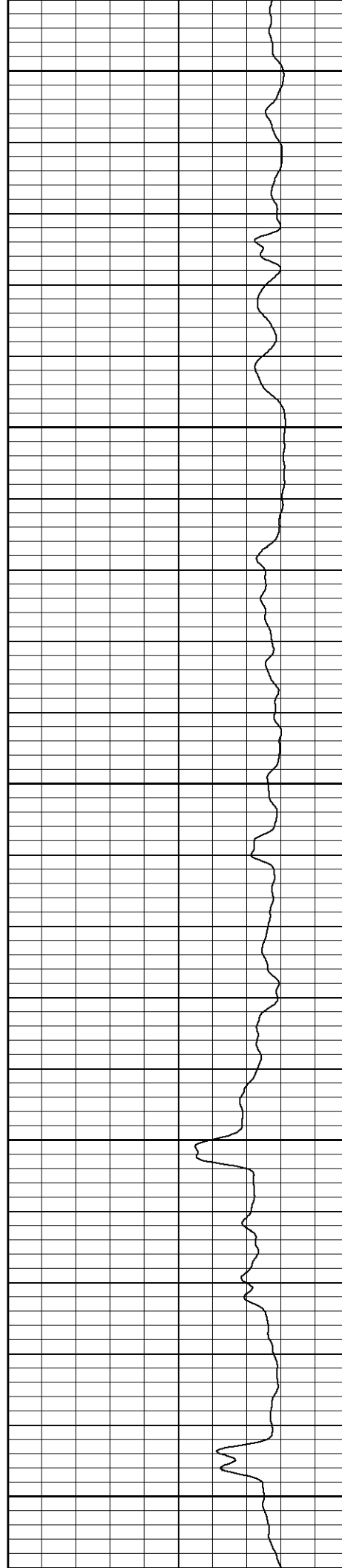
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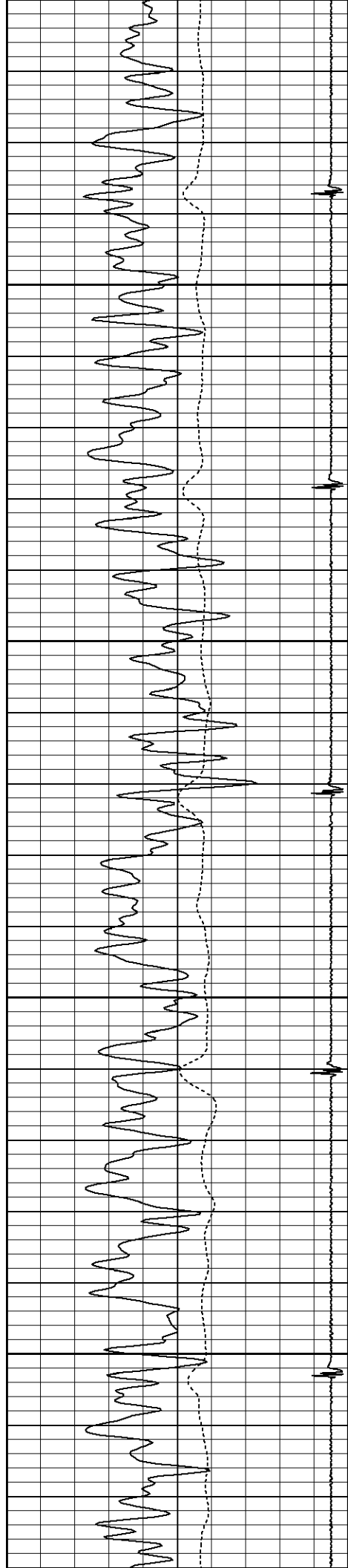
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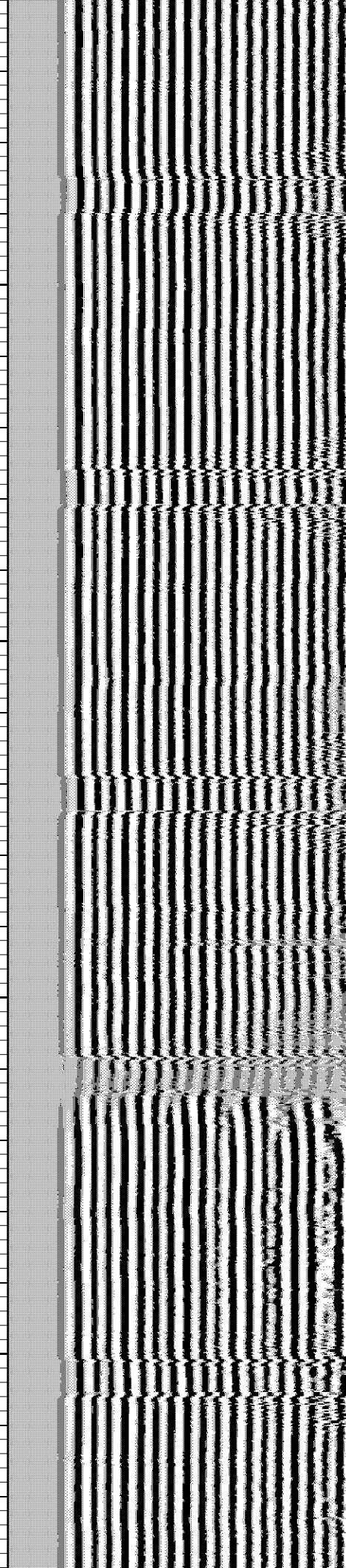
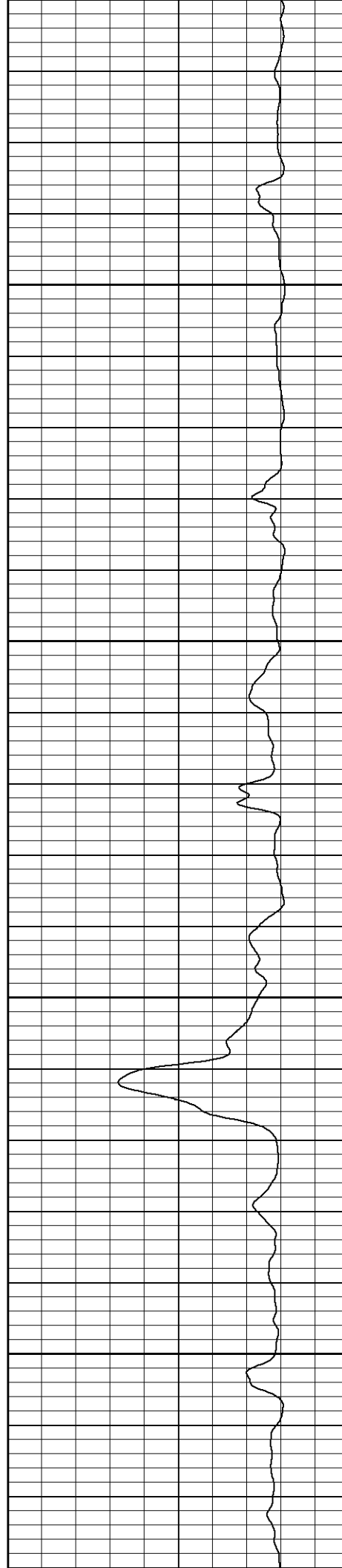


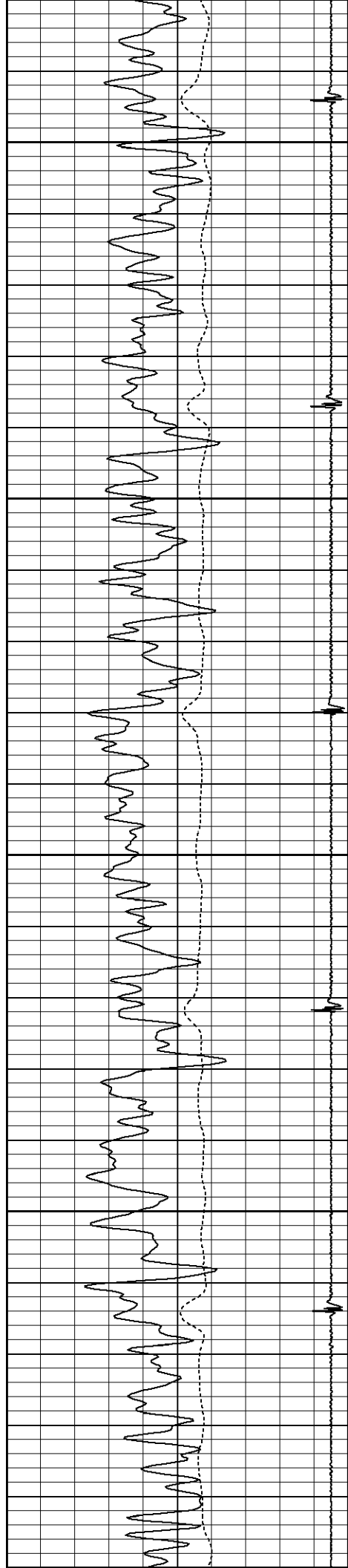
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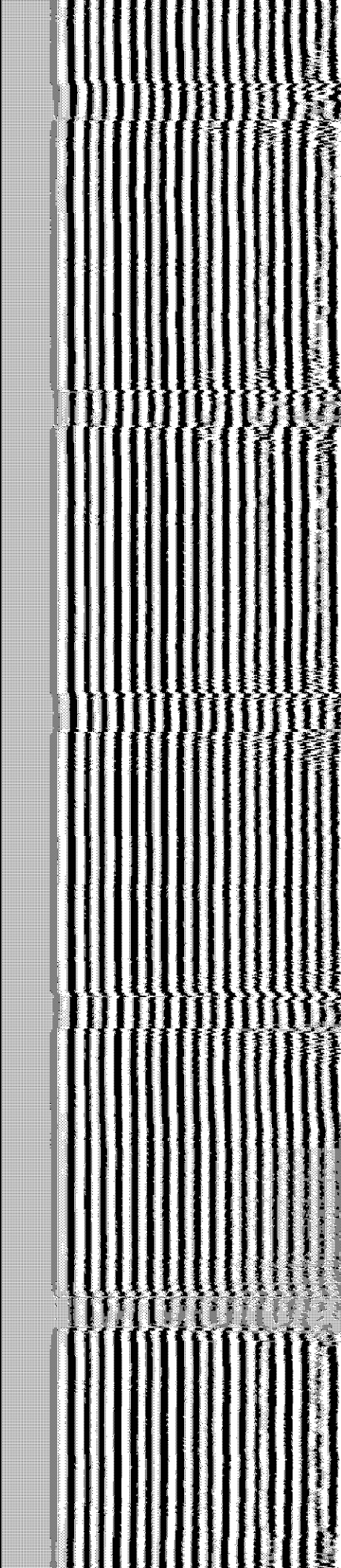
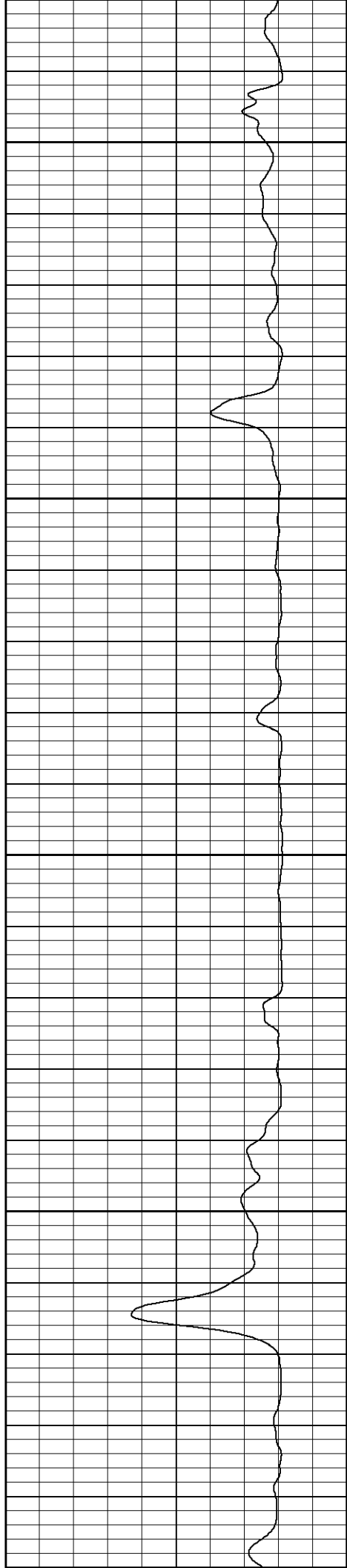
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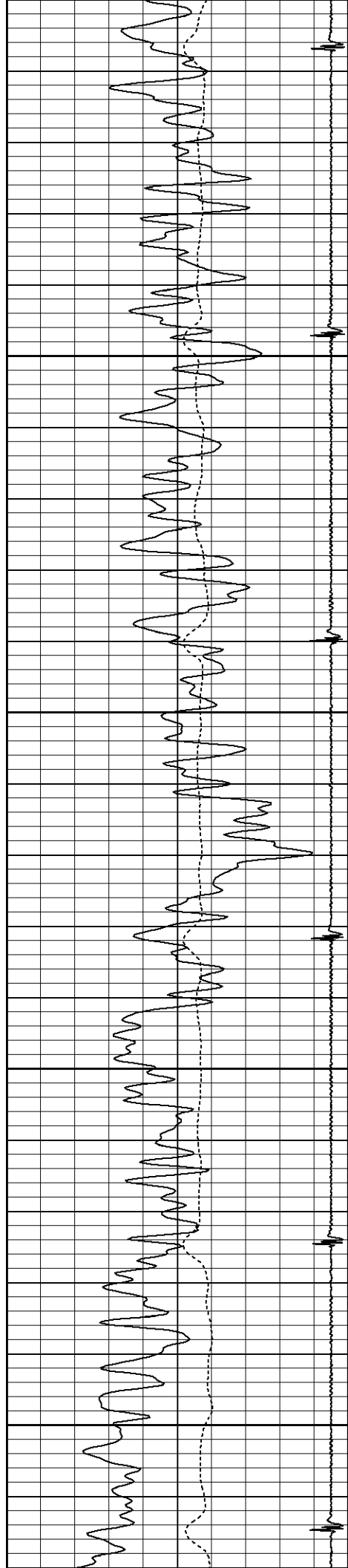
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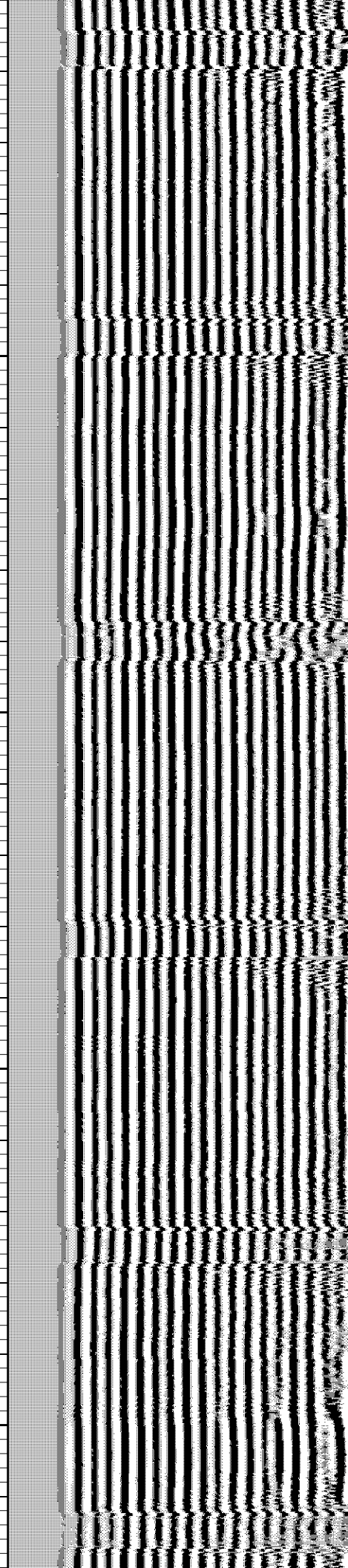
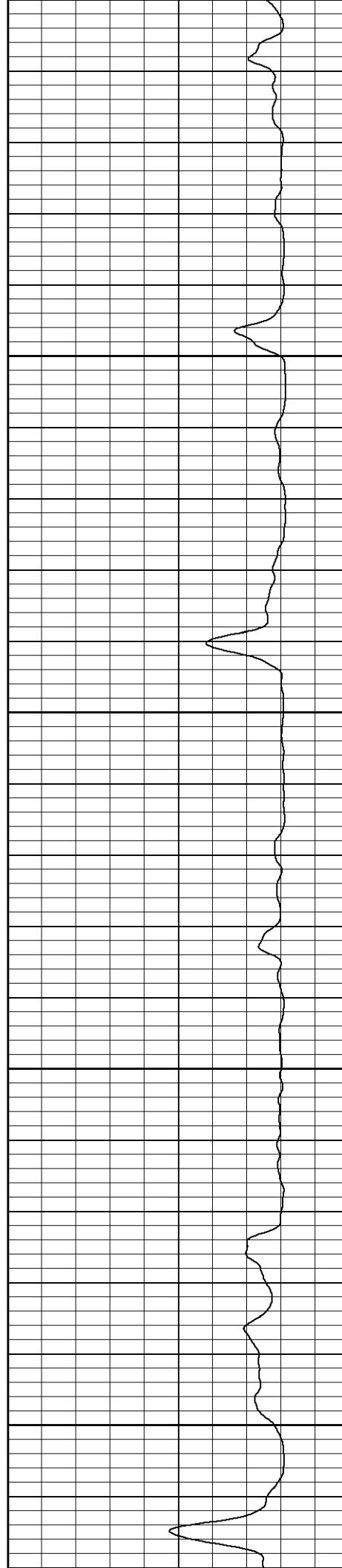
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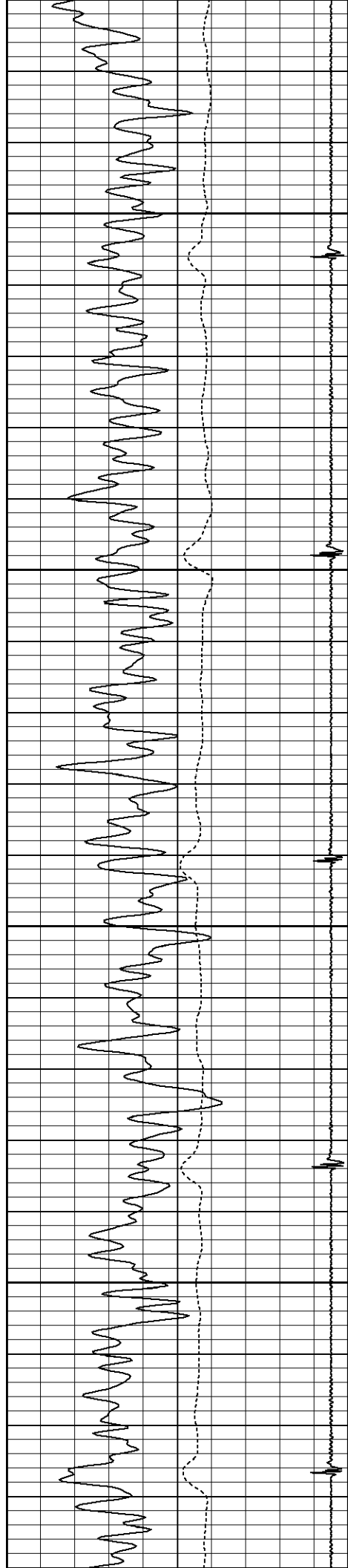
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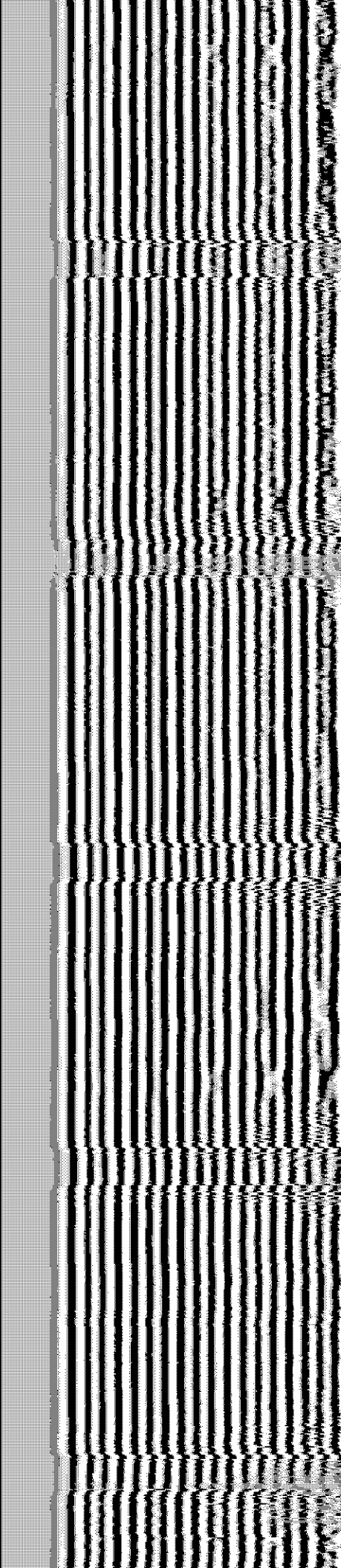
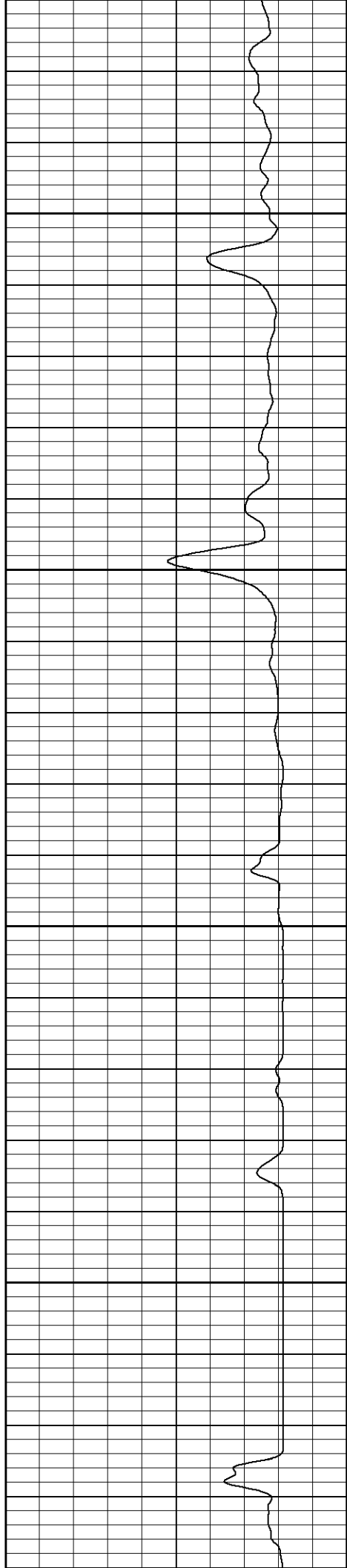


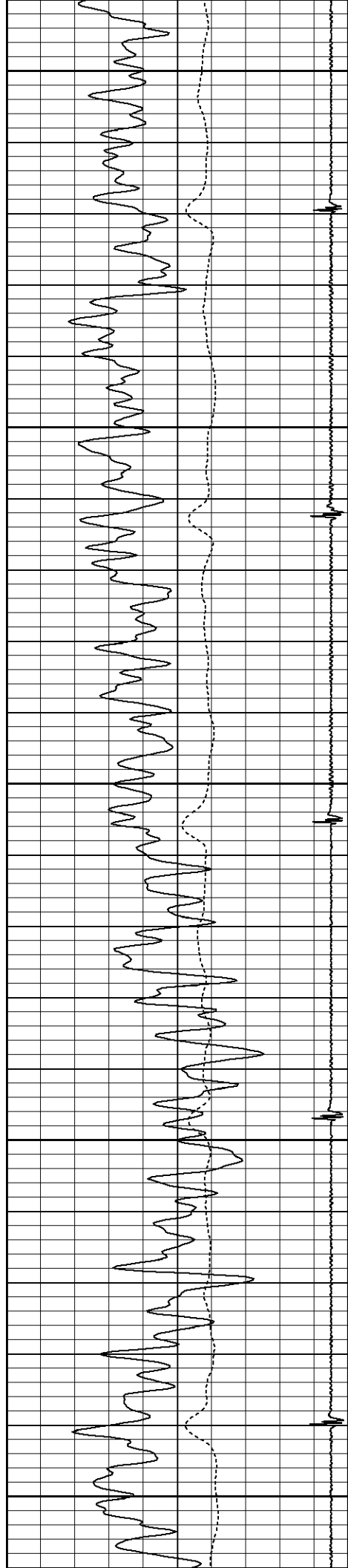
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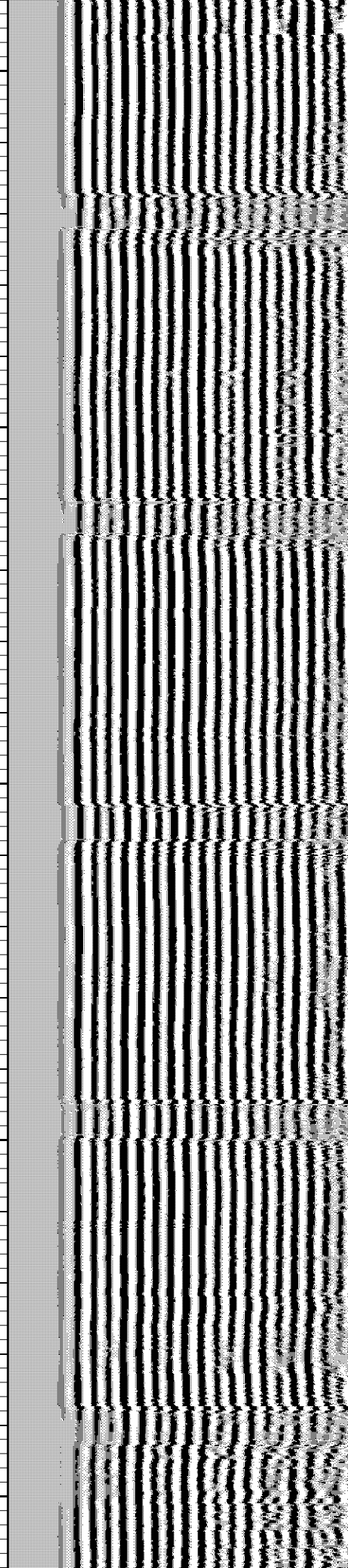
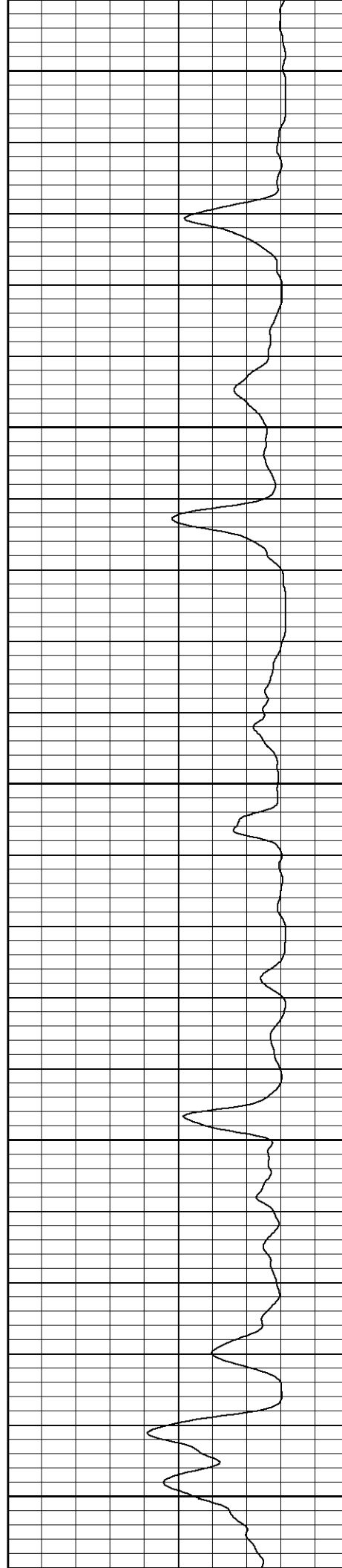
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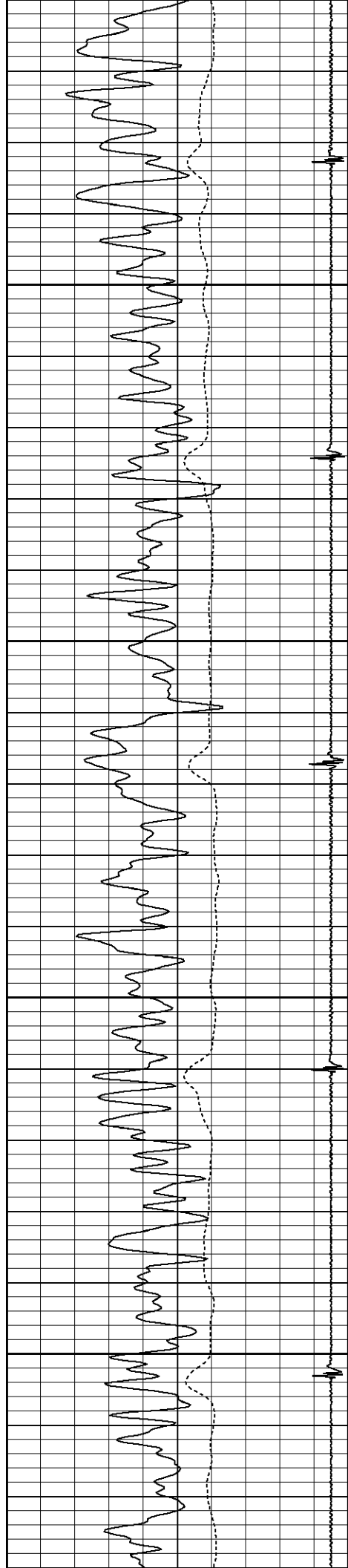
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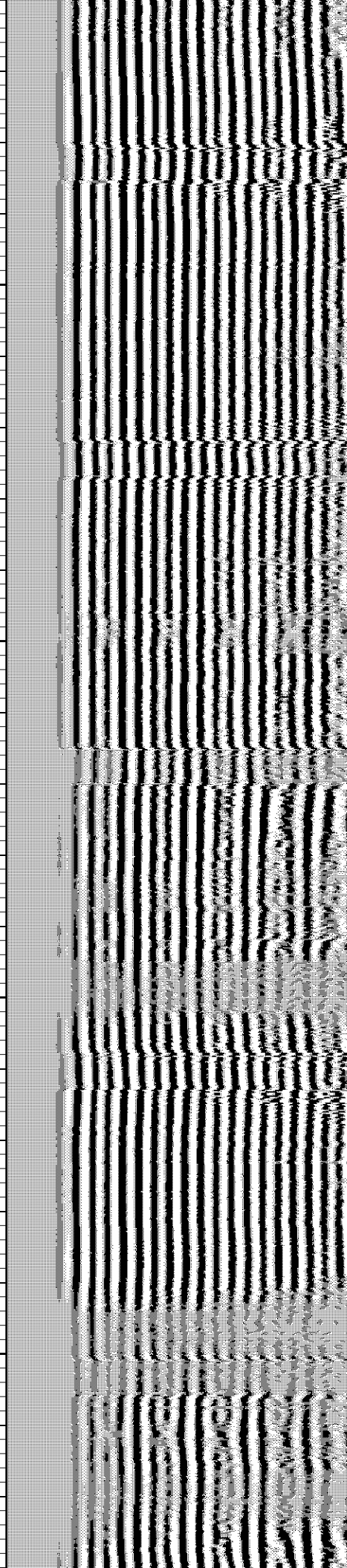
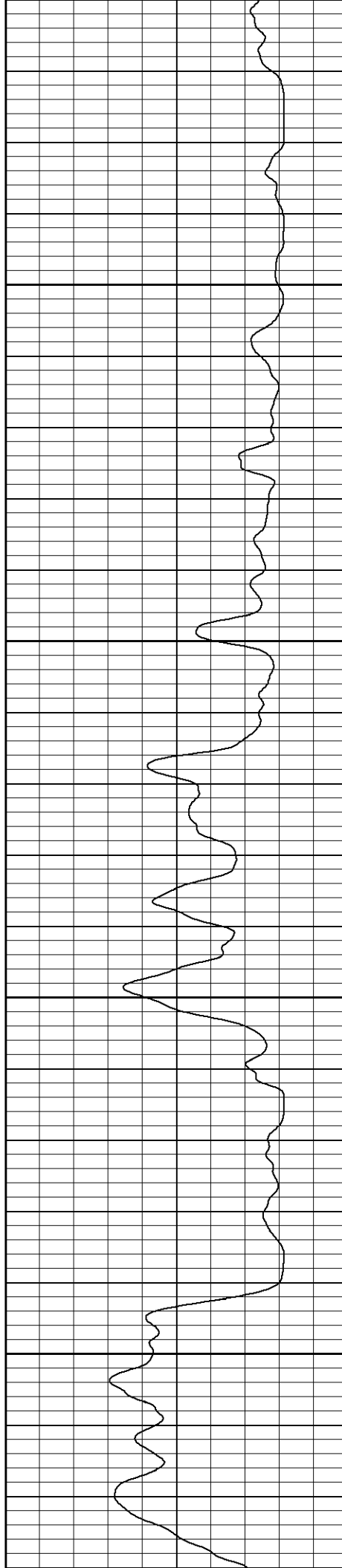


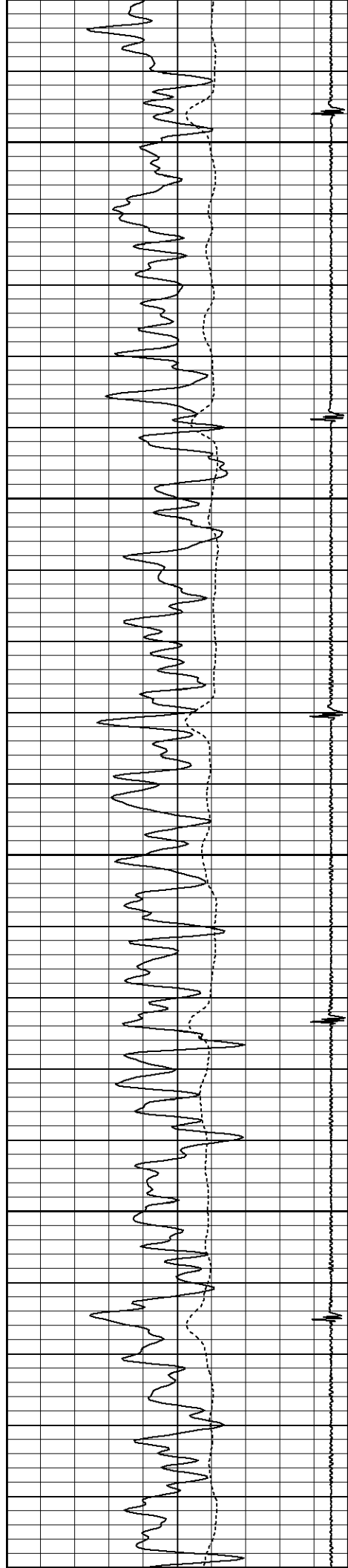
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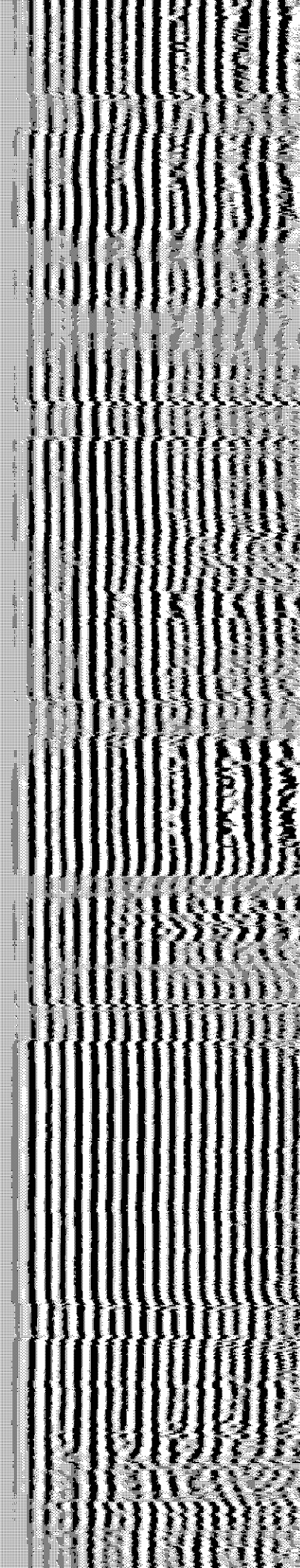
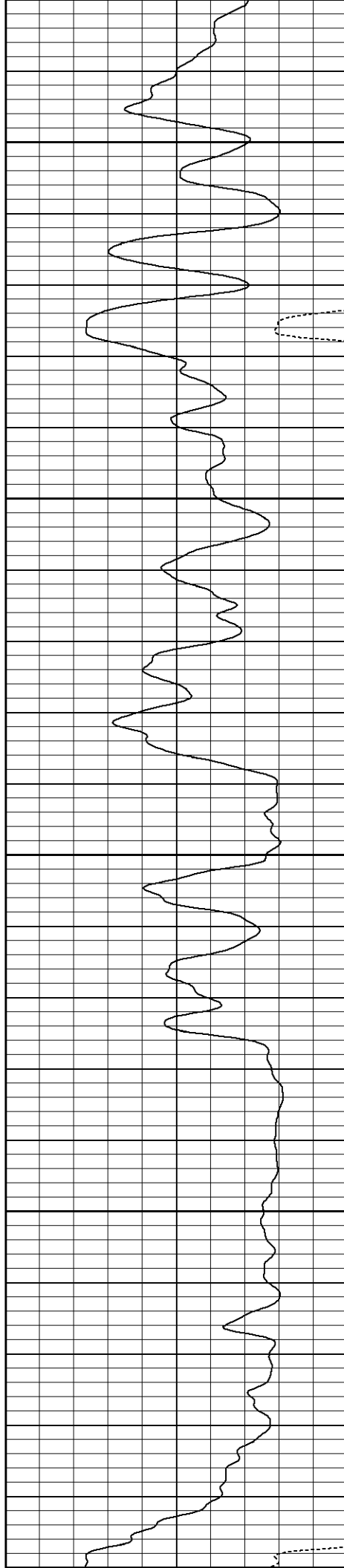
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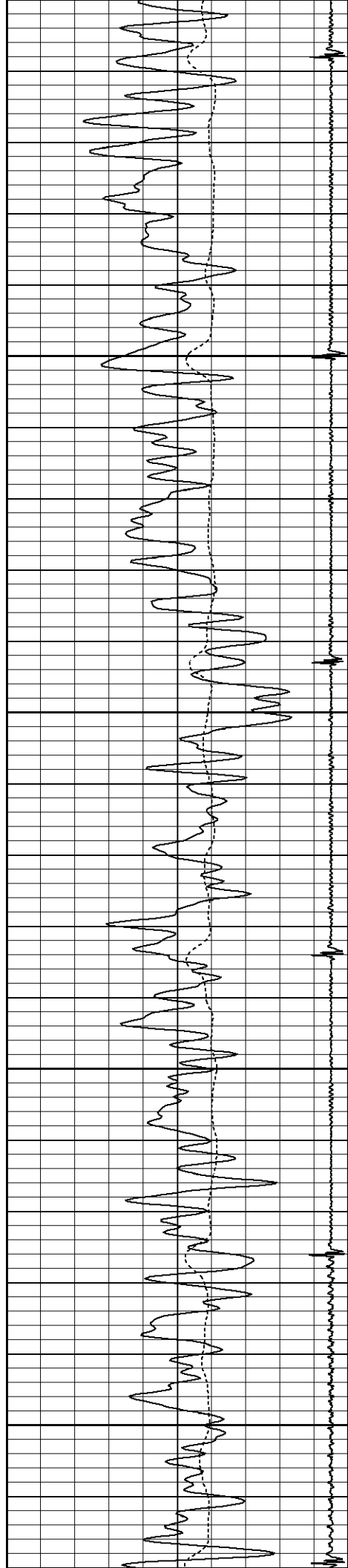
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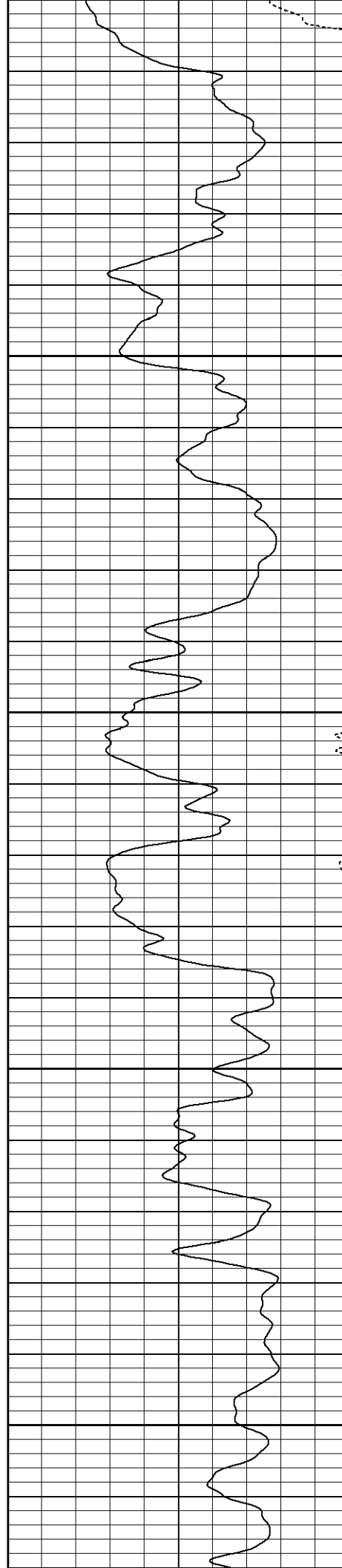


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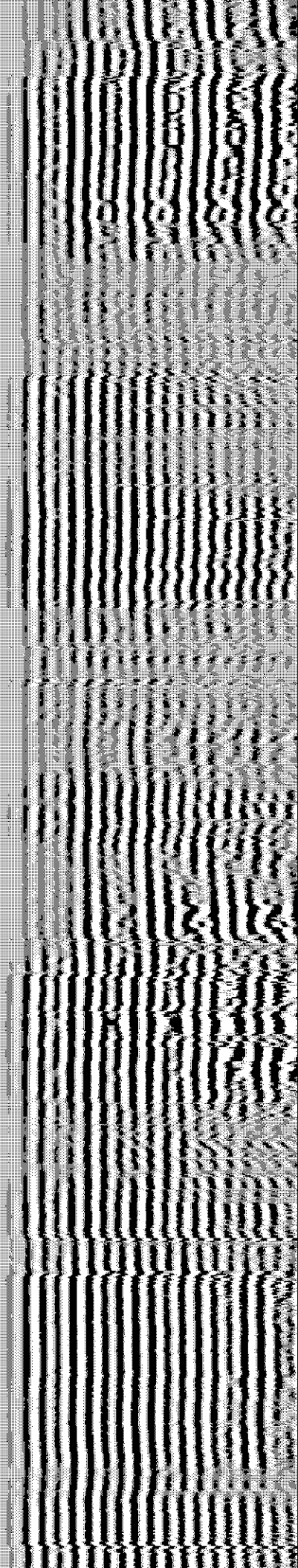
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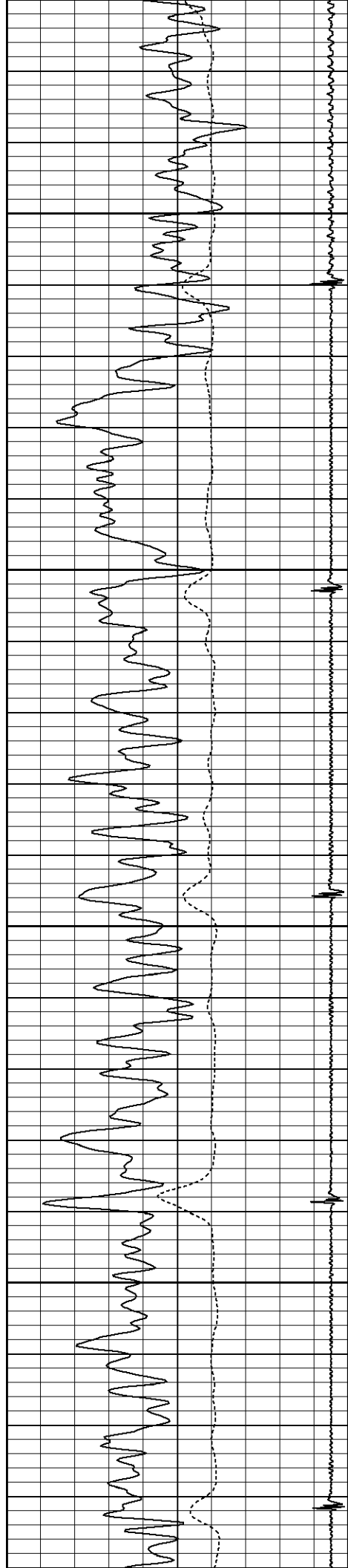
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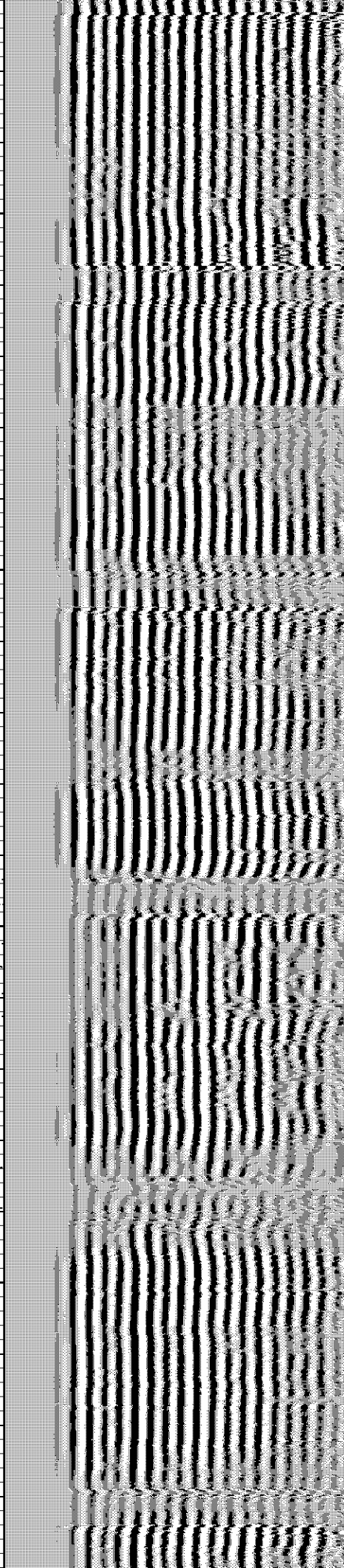
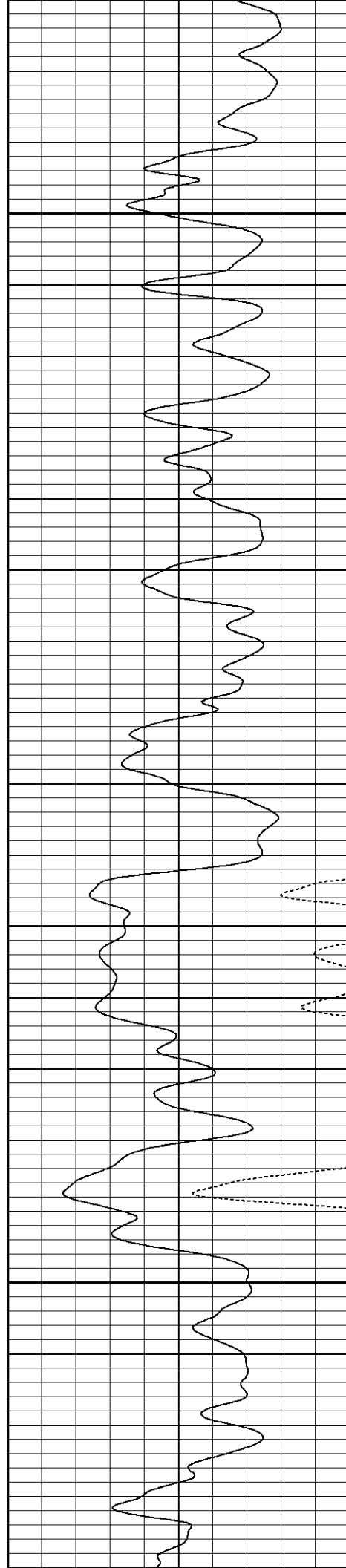


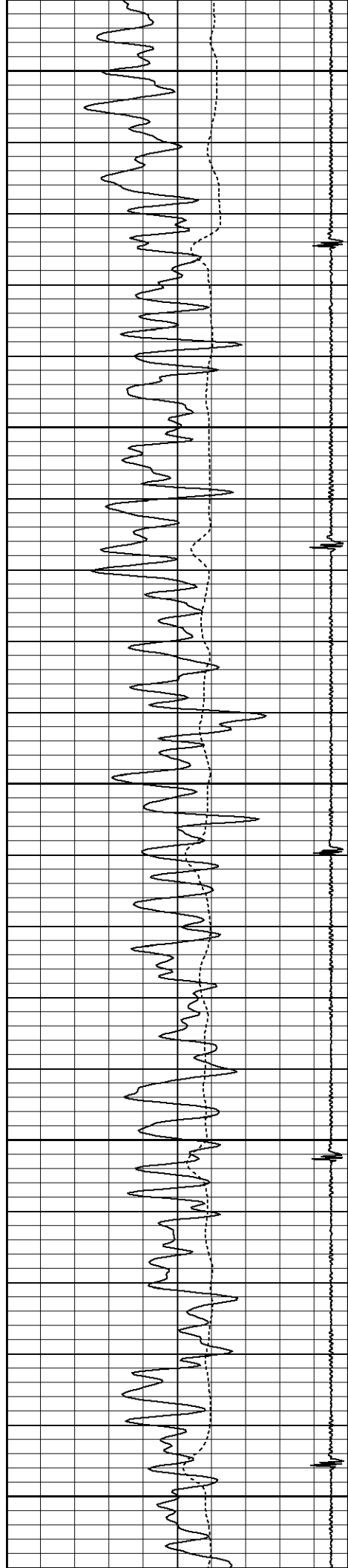
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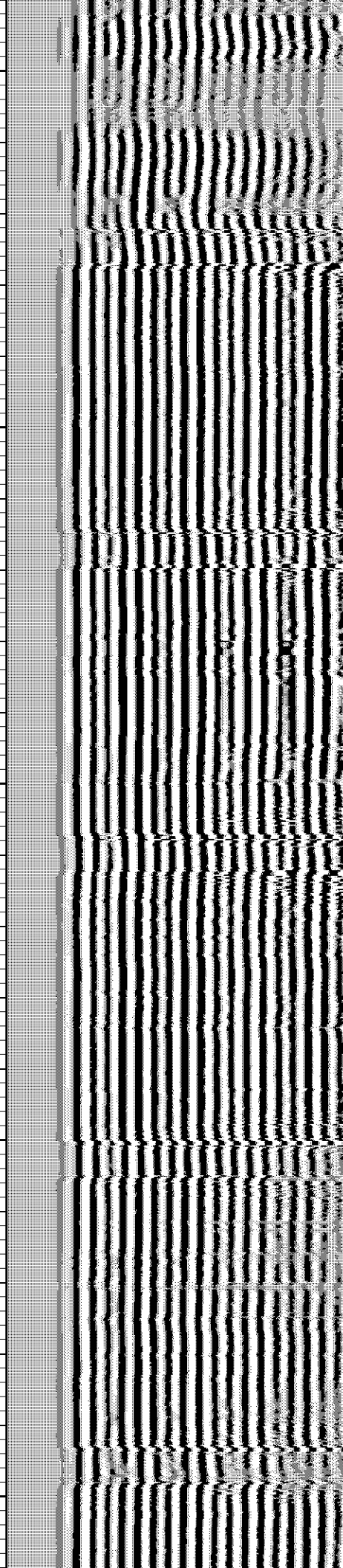
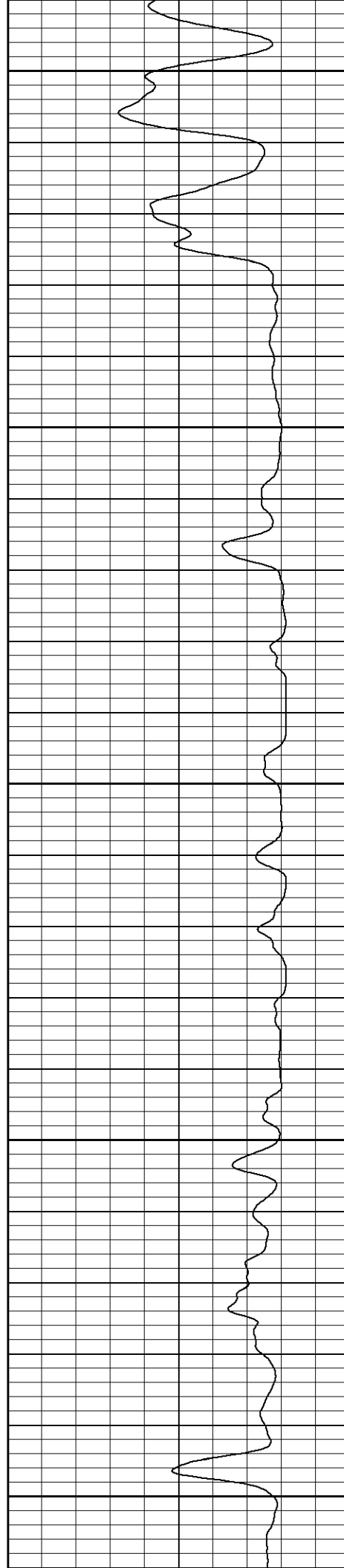
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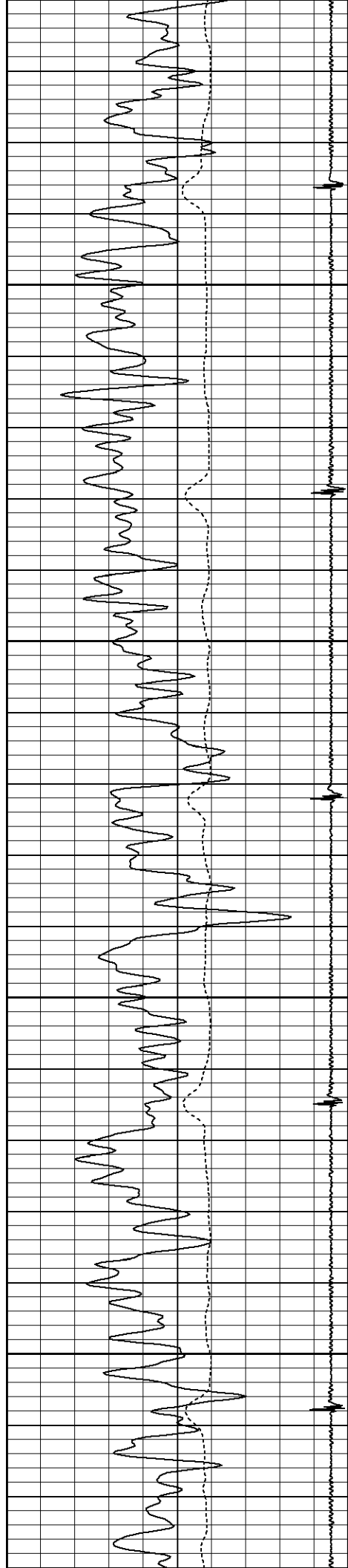
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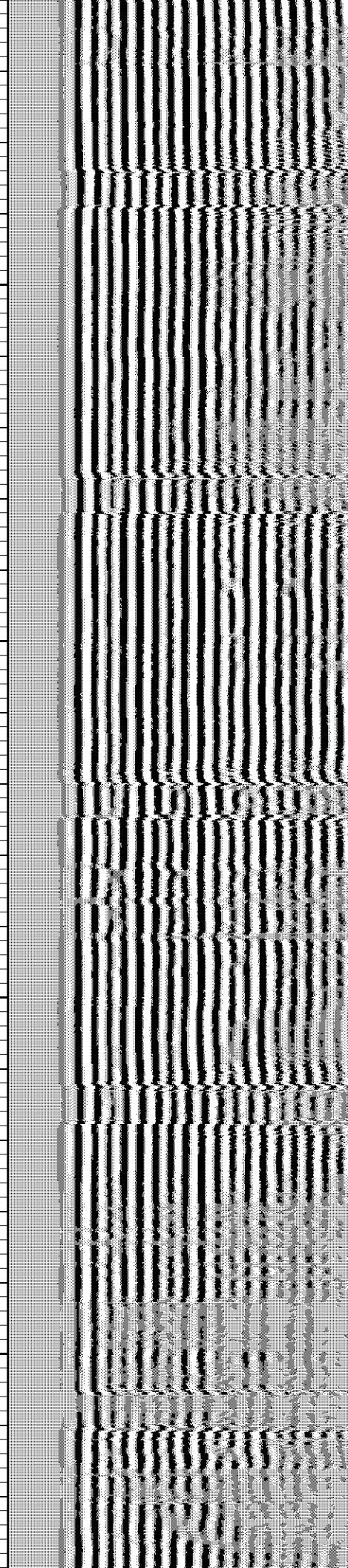
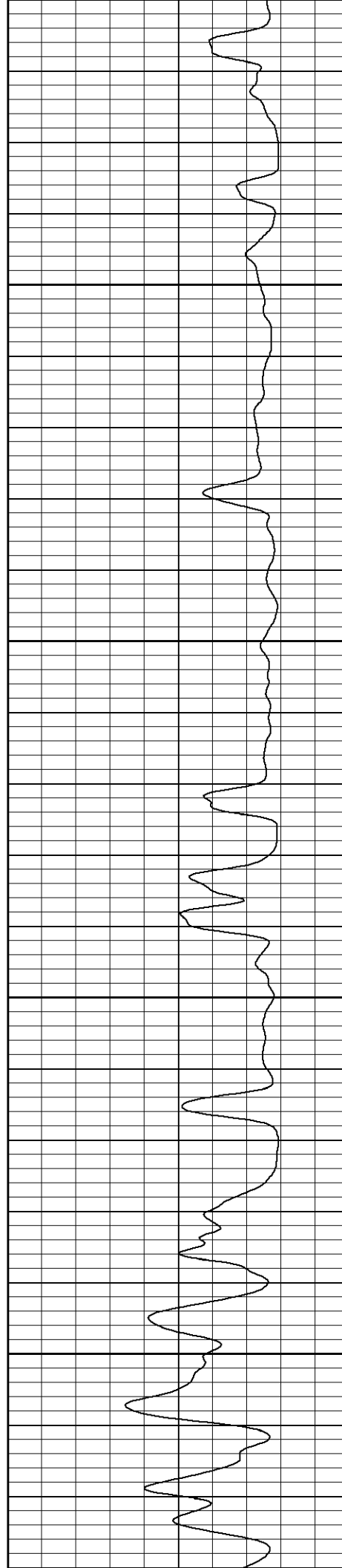


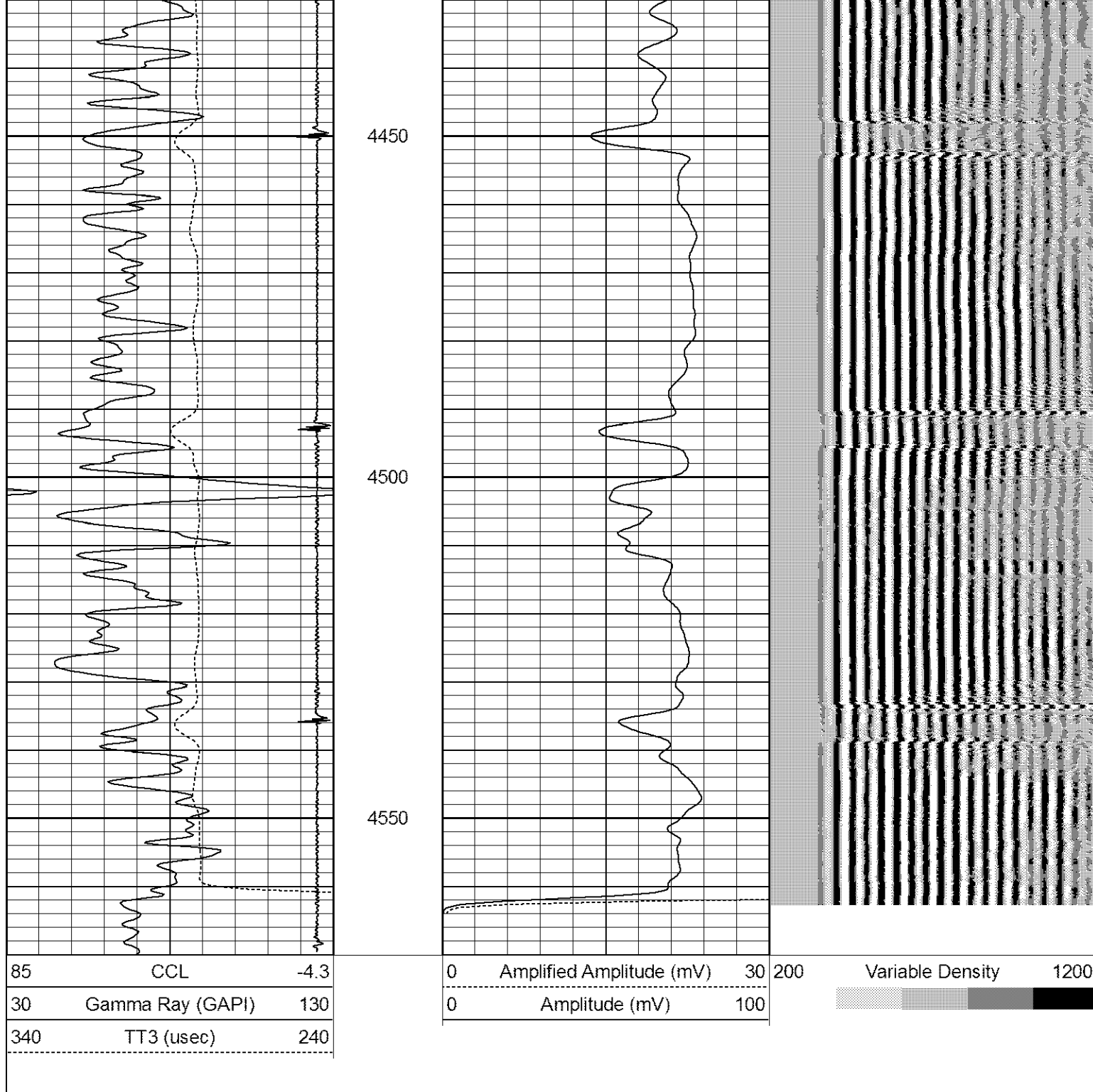
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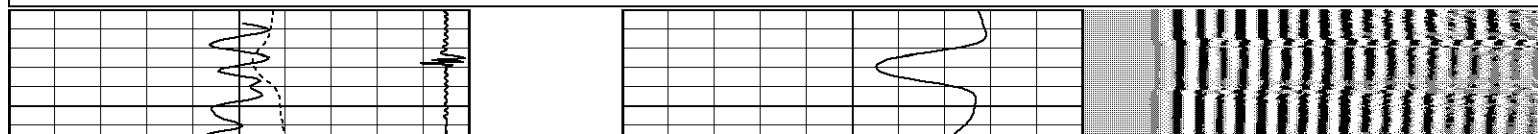
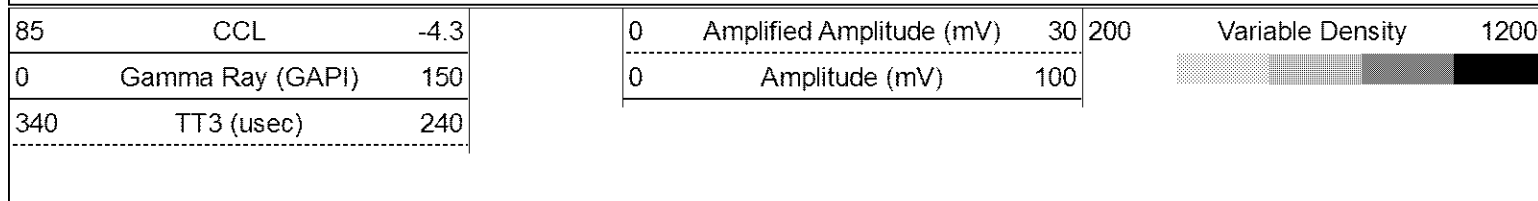
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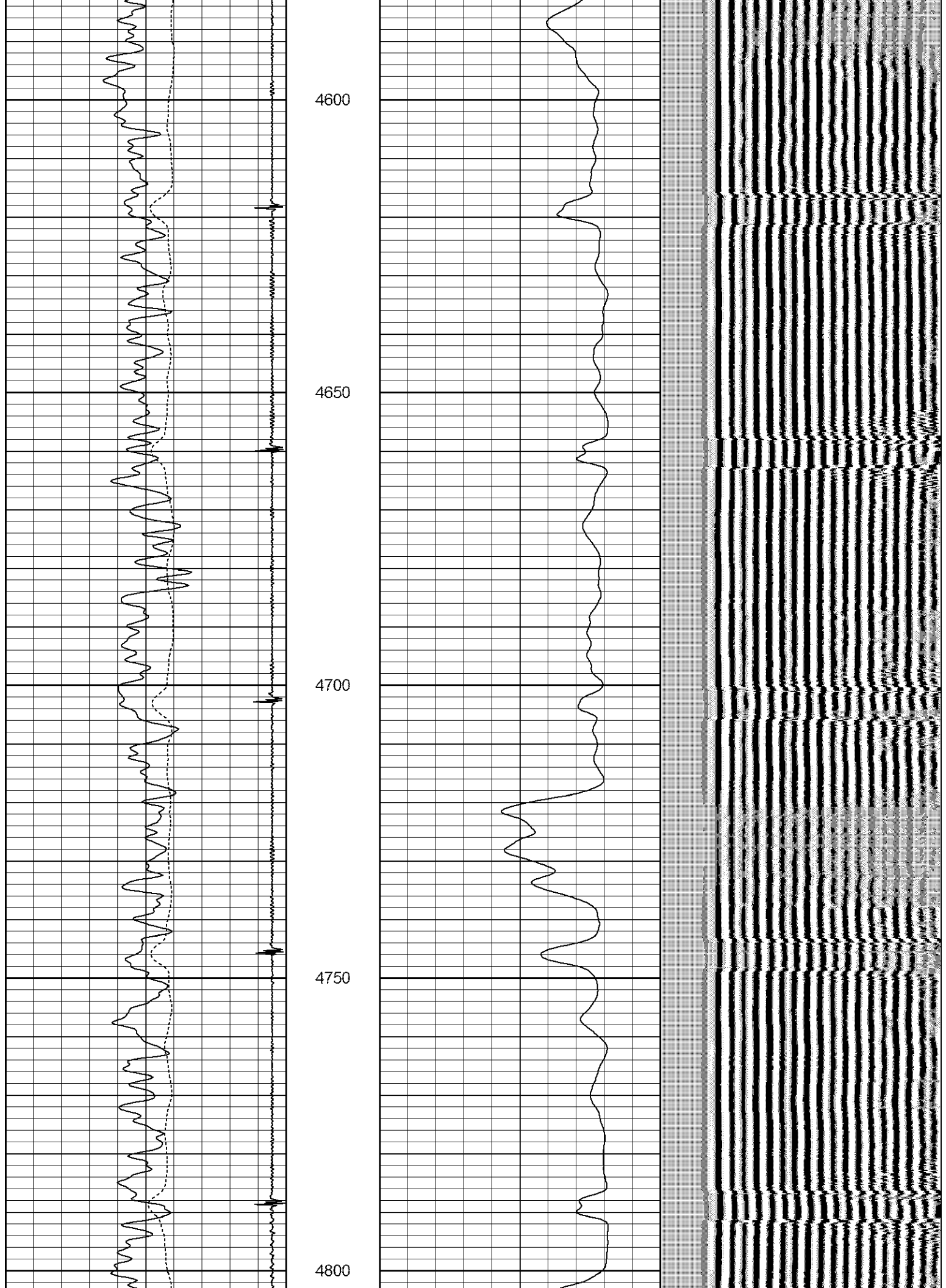
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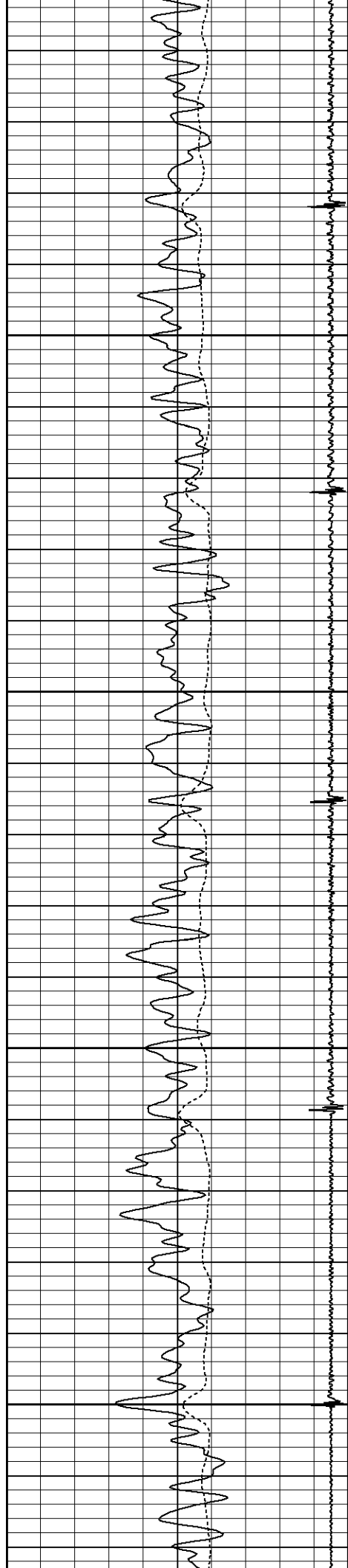




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 Presentation Format: noble en
 Dataset Creation: Tue Feb 07 09:35:47 2012 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240





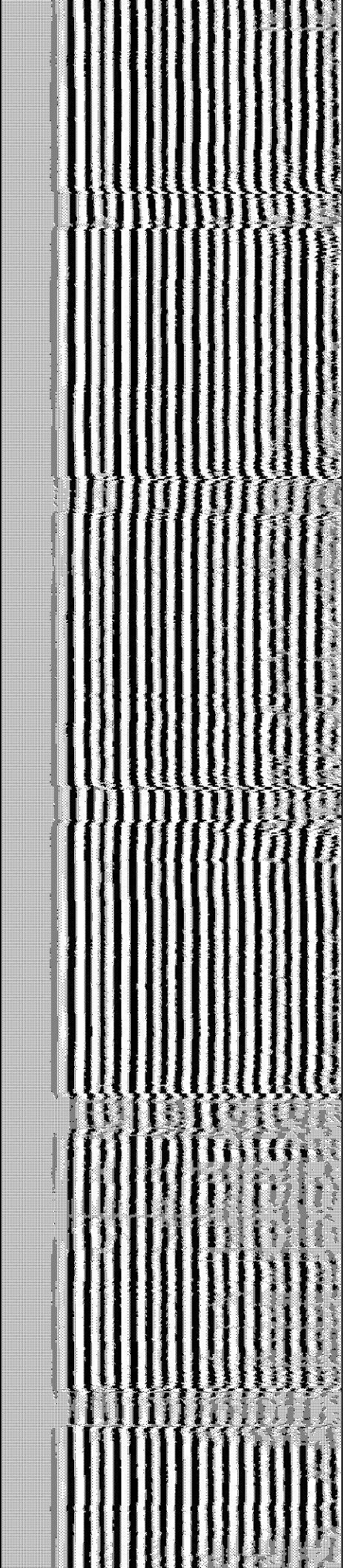
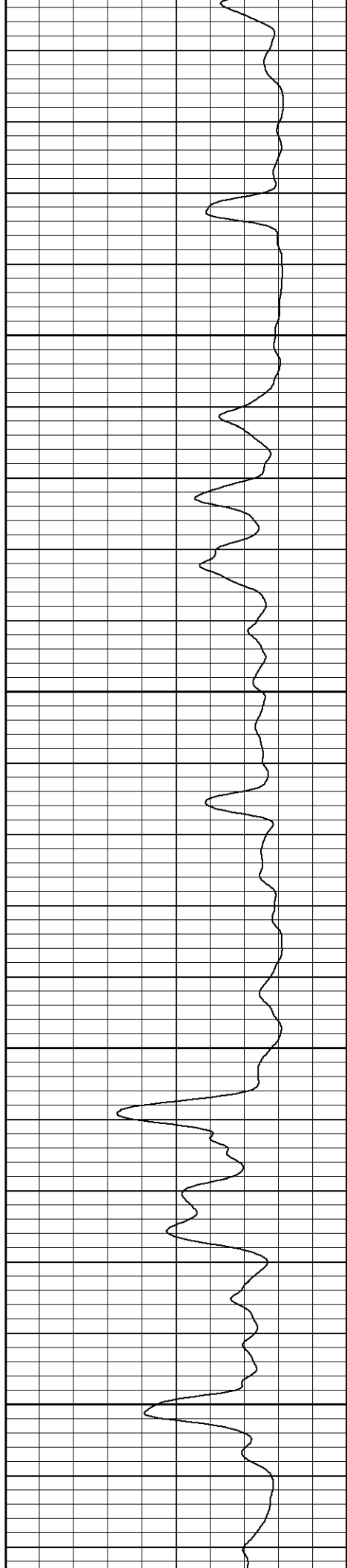


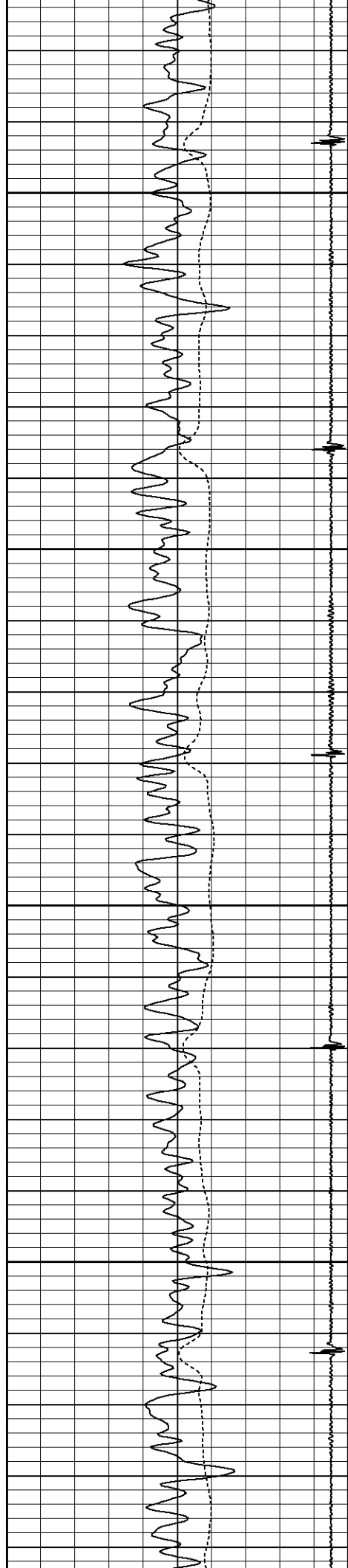
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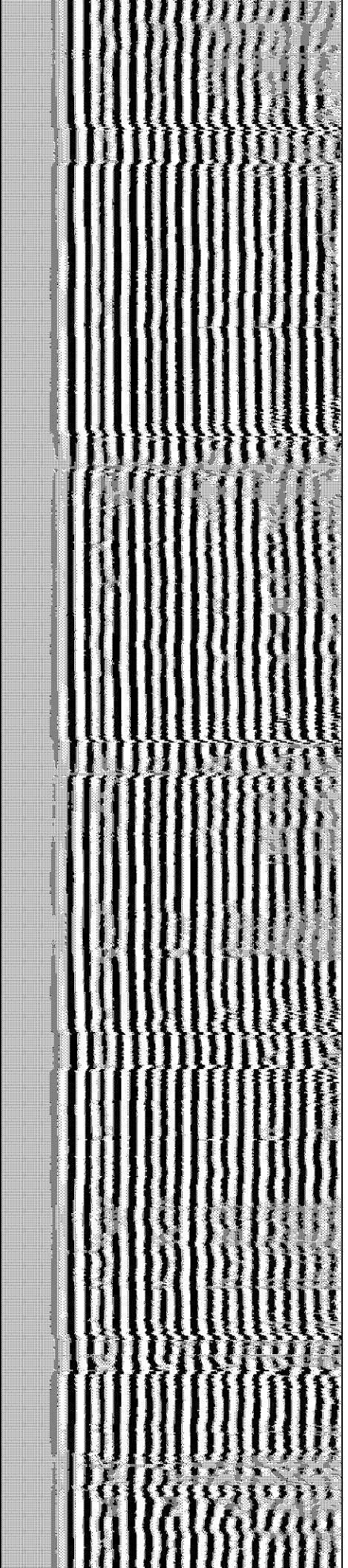
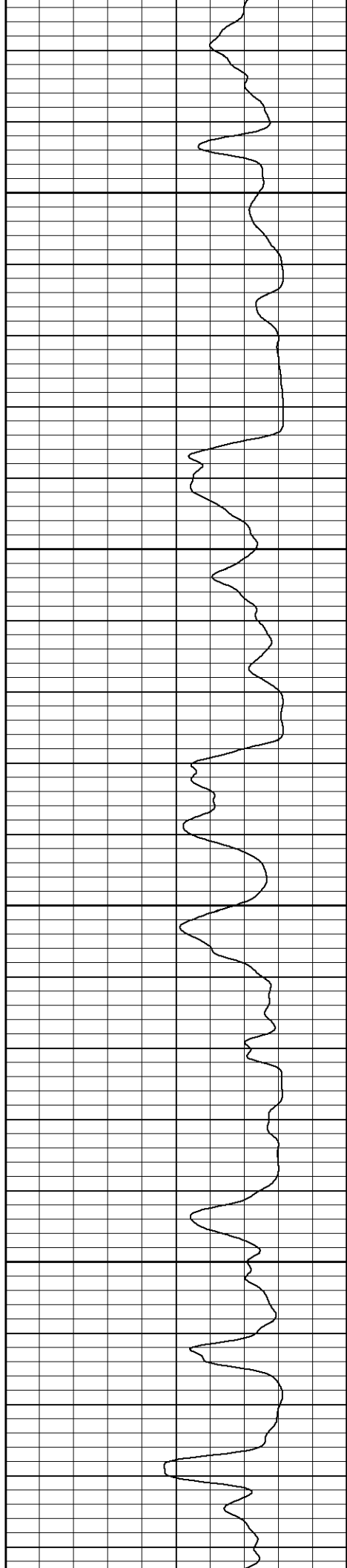


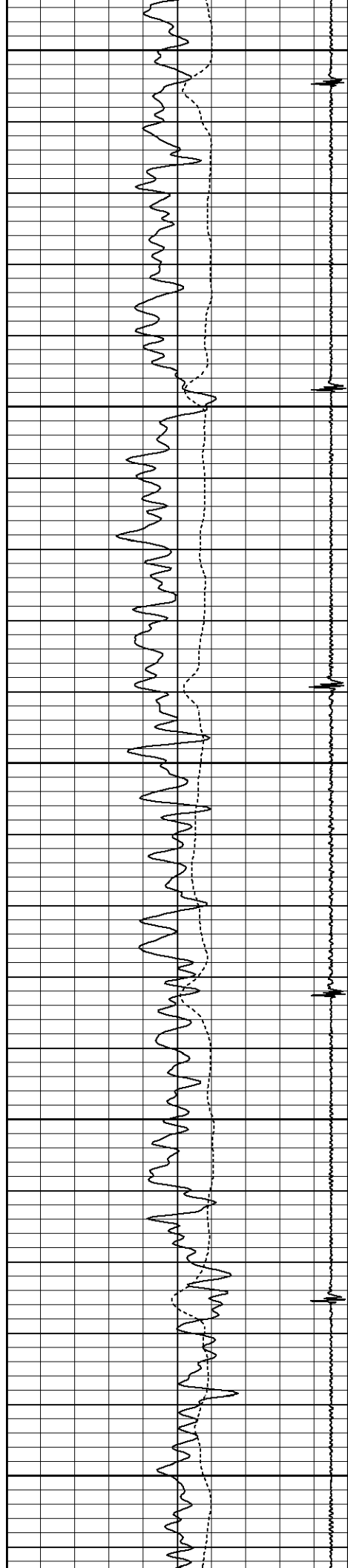
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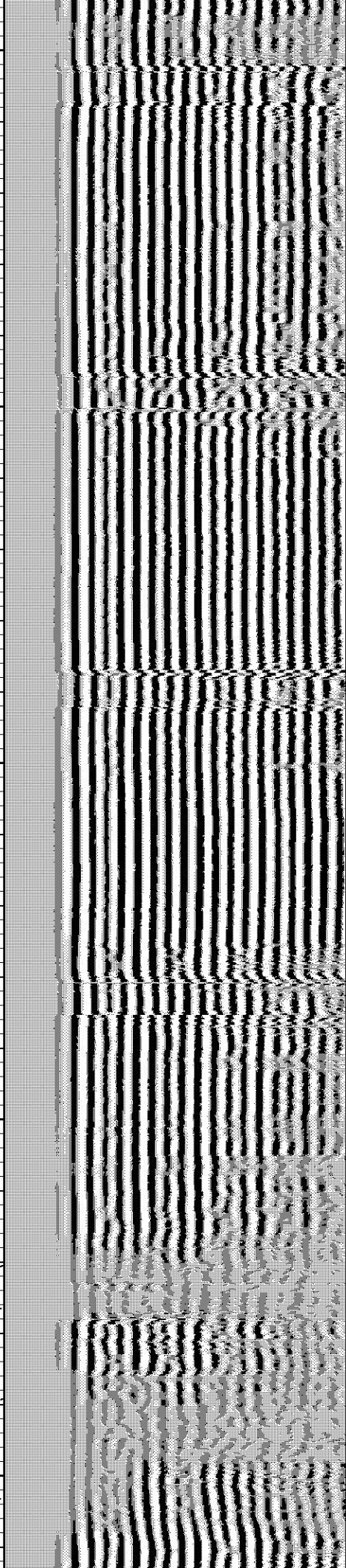
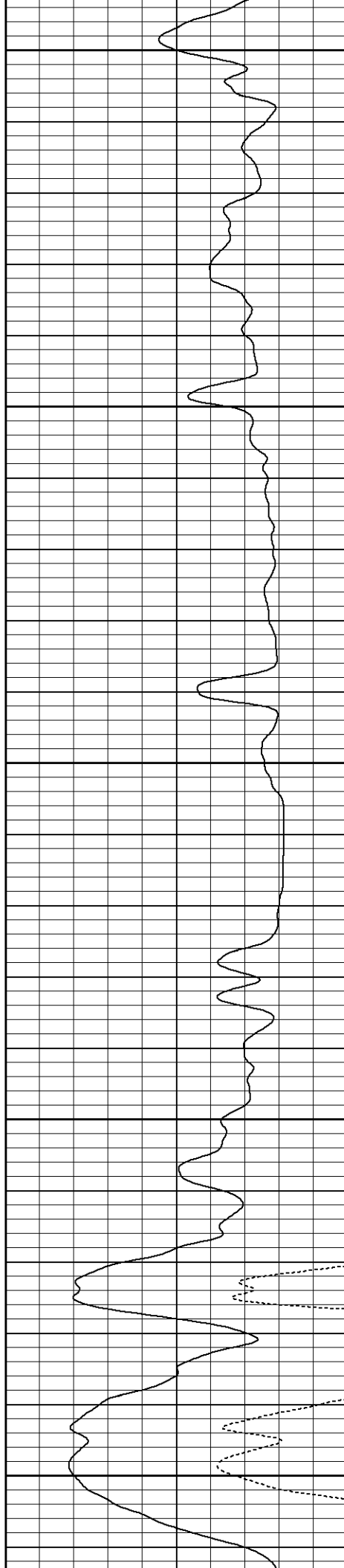
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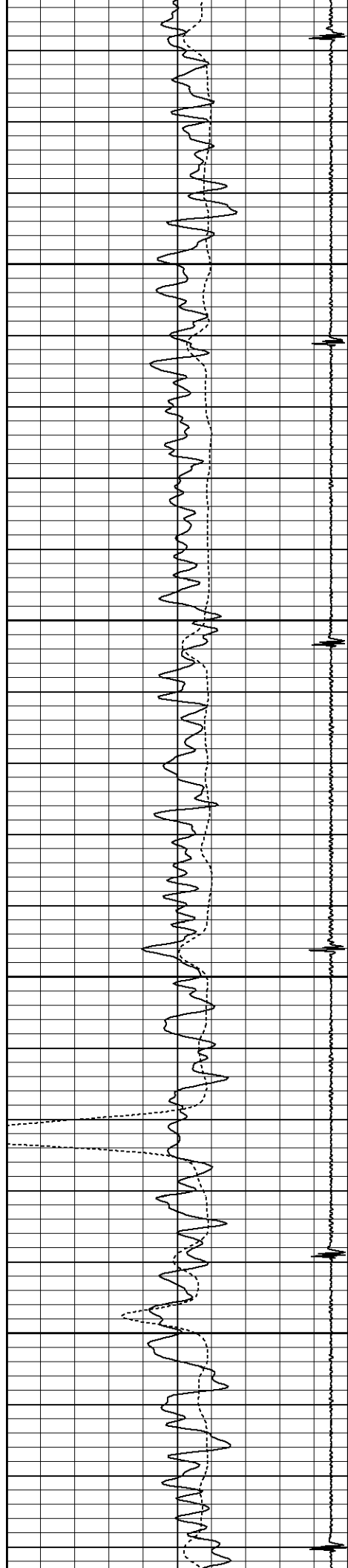
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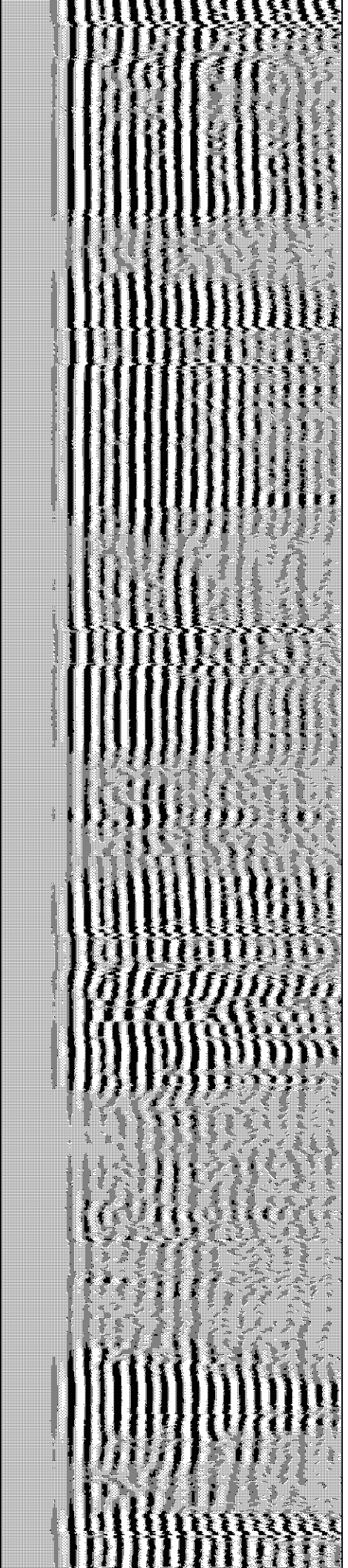
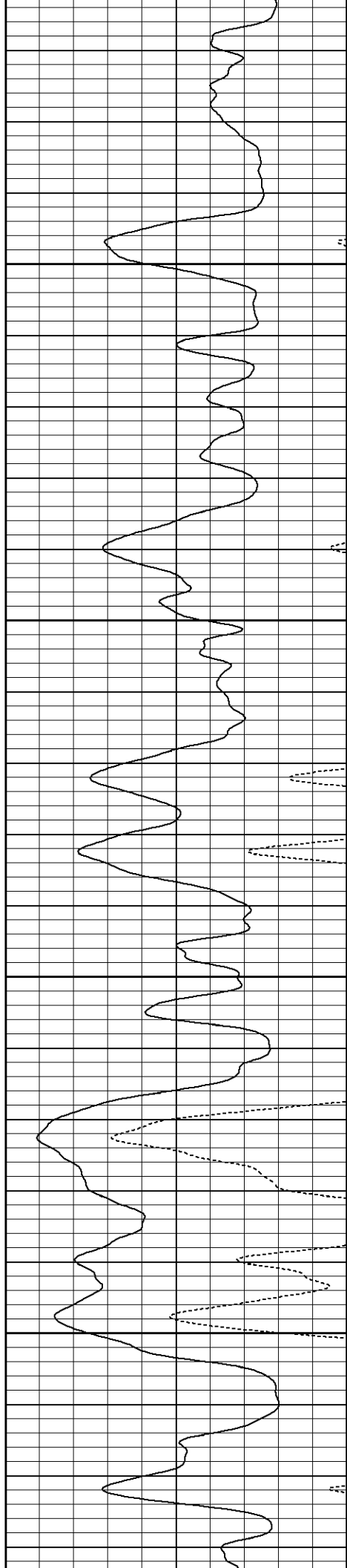


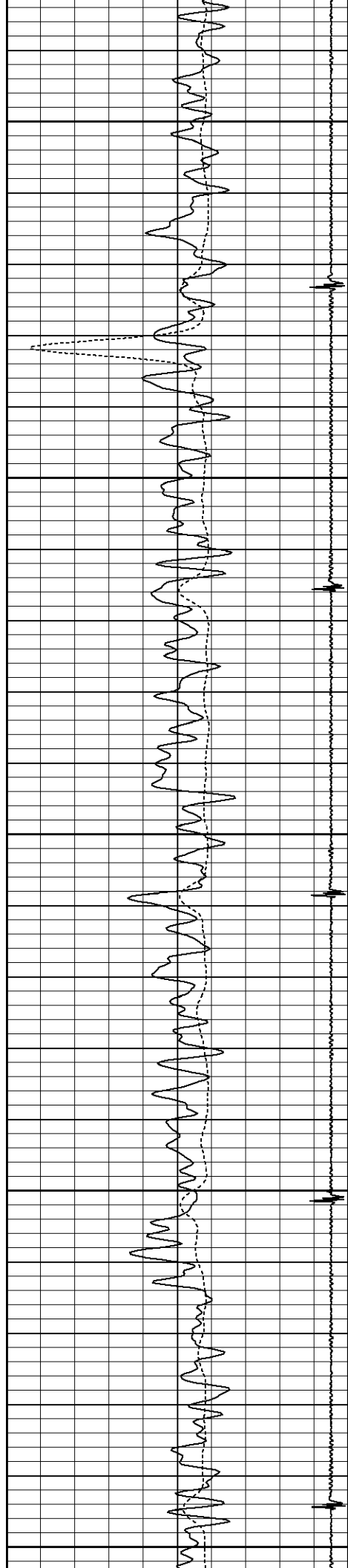
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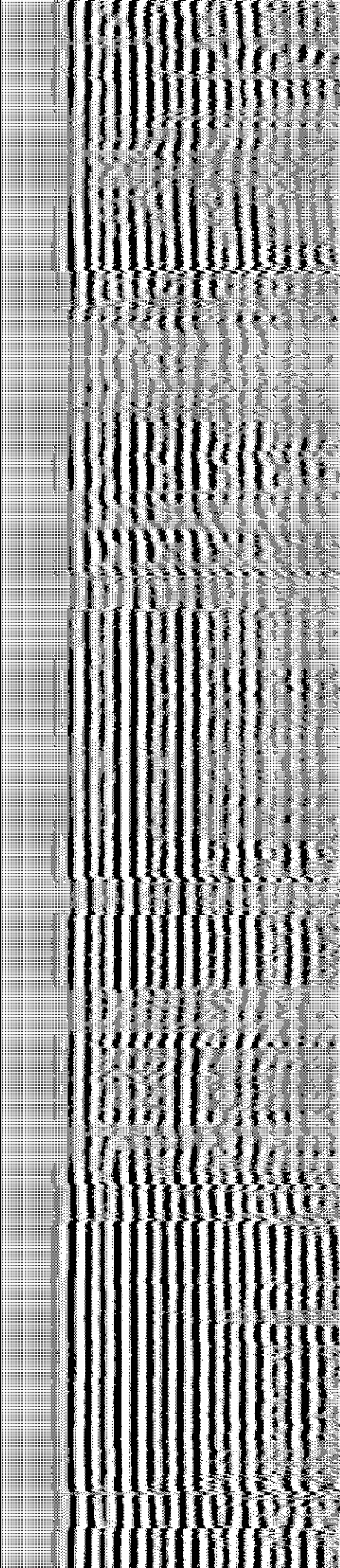
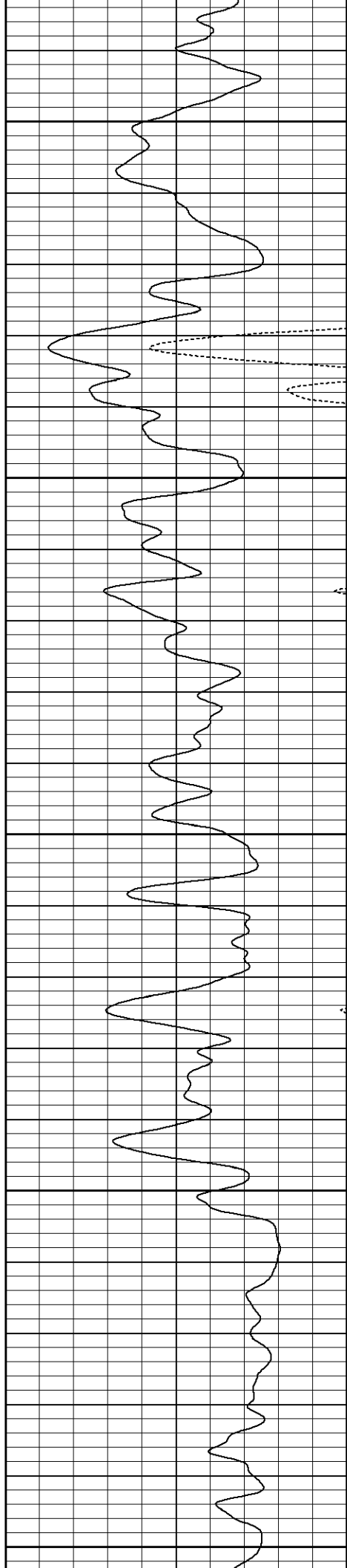
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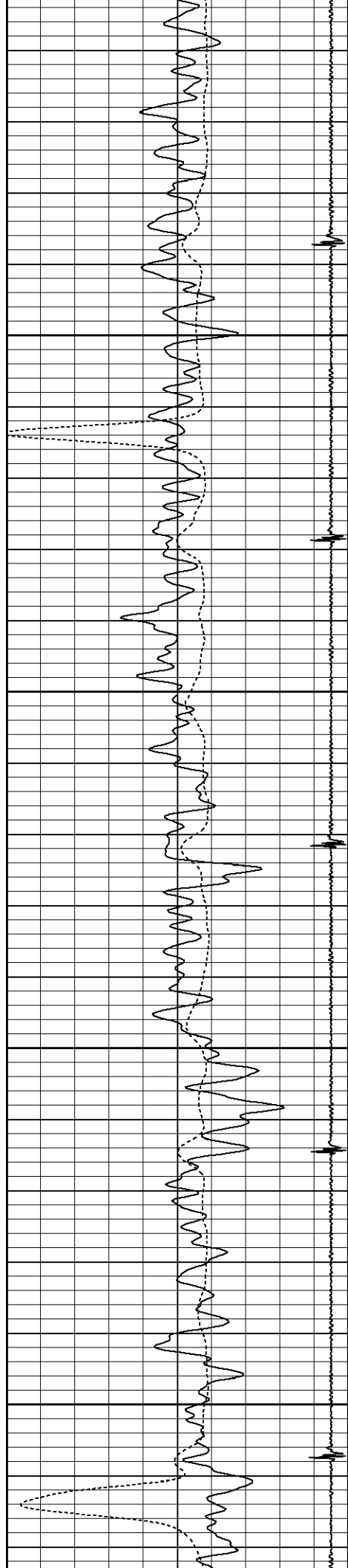
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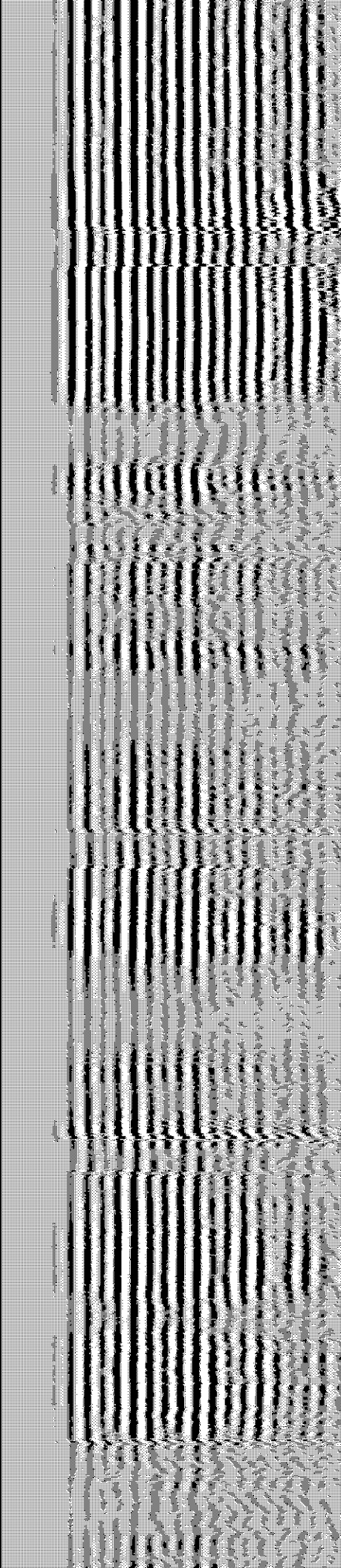
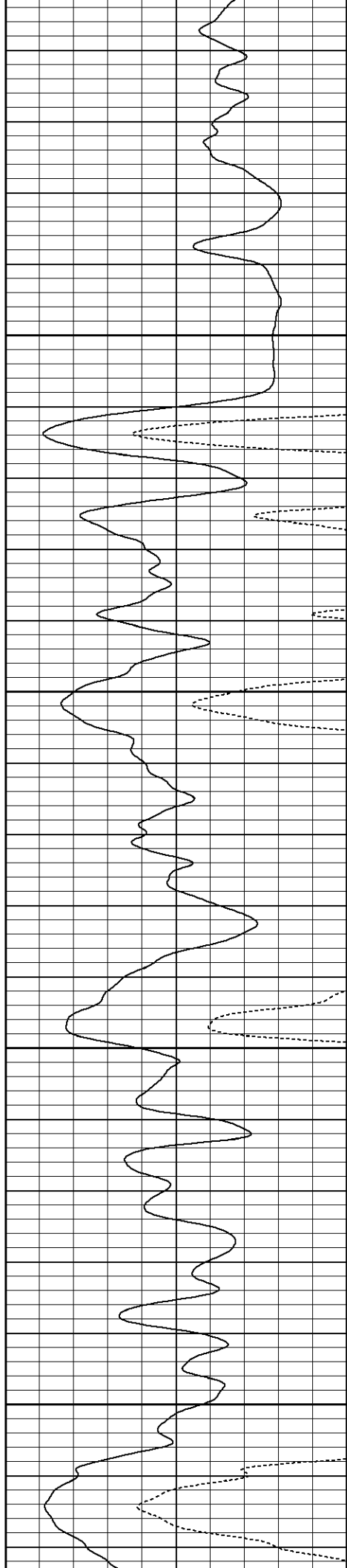


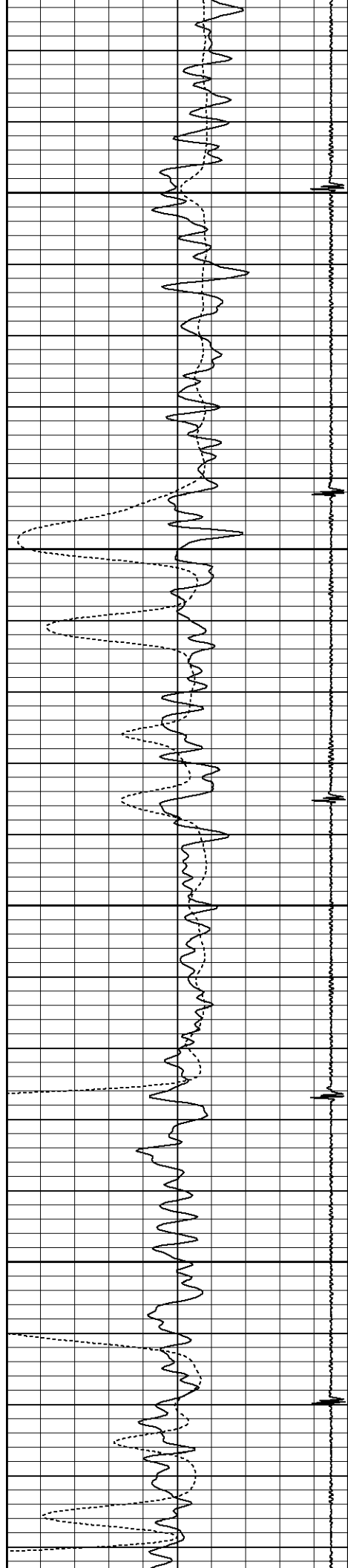
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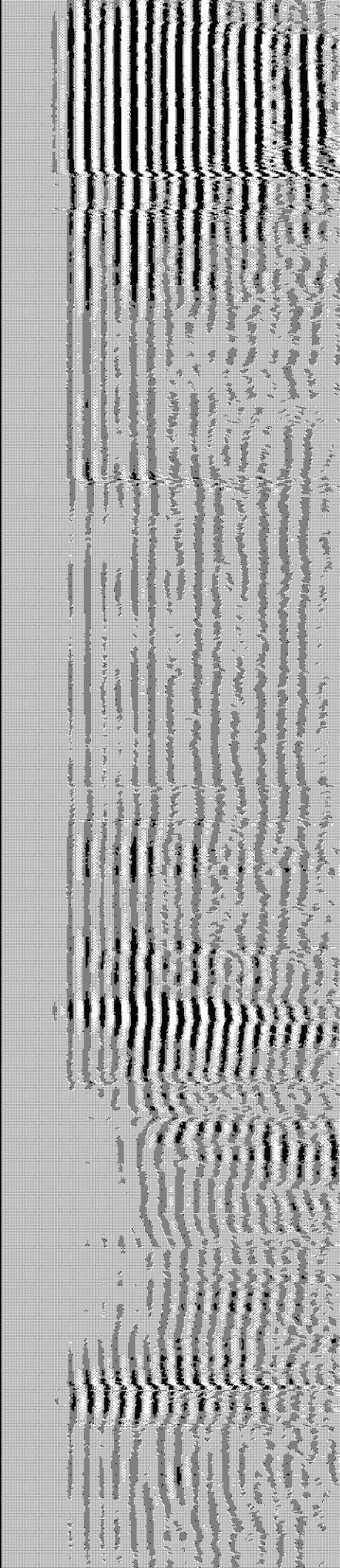
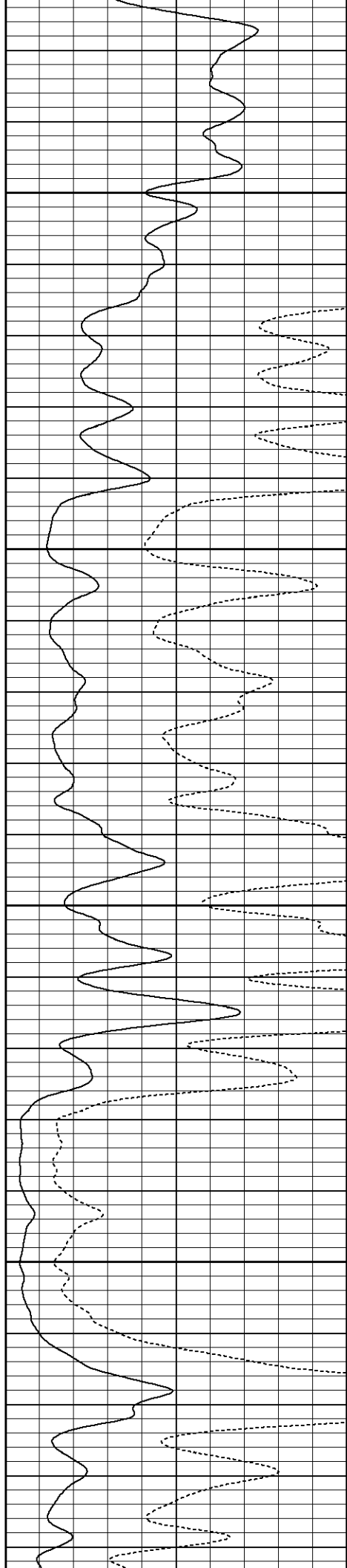


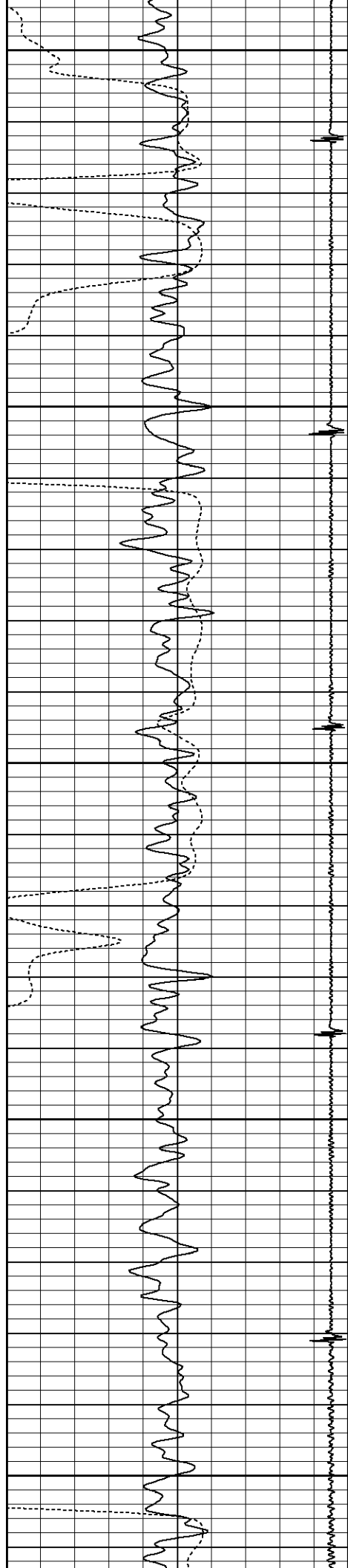
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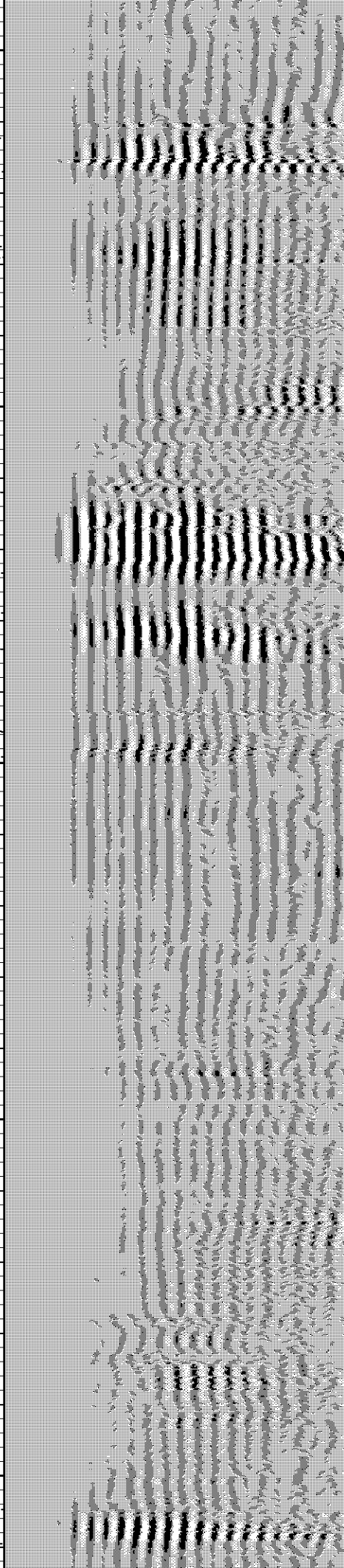
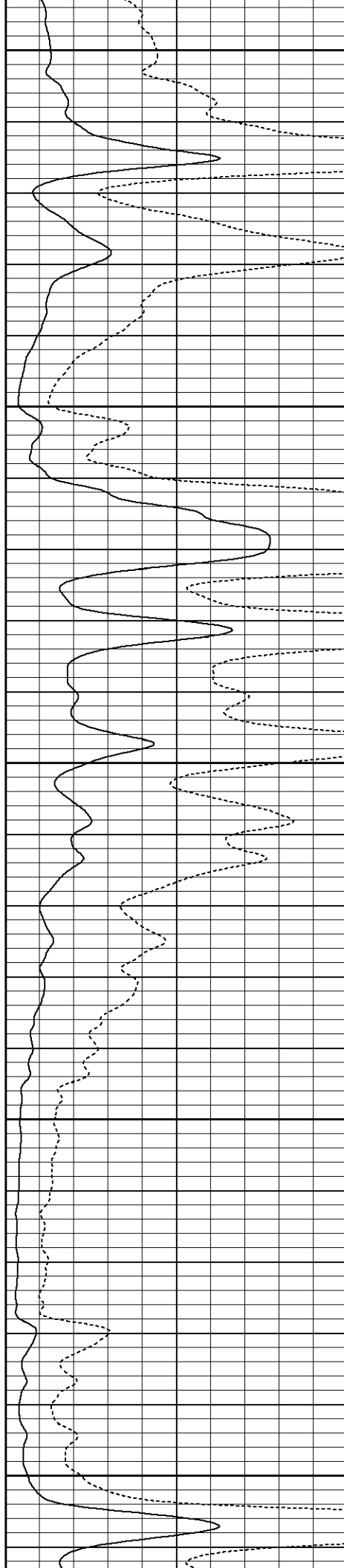
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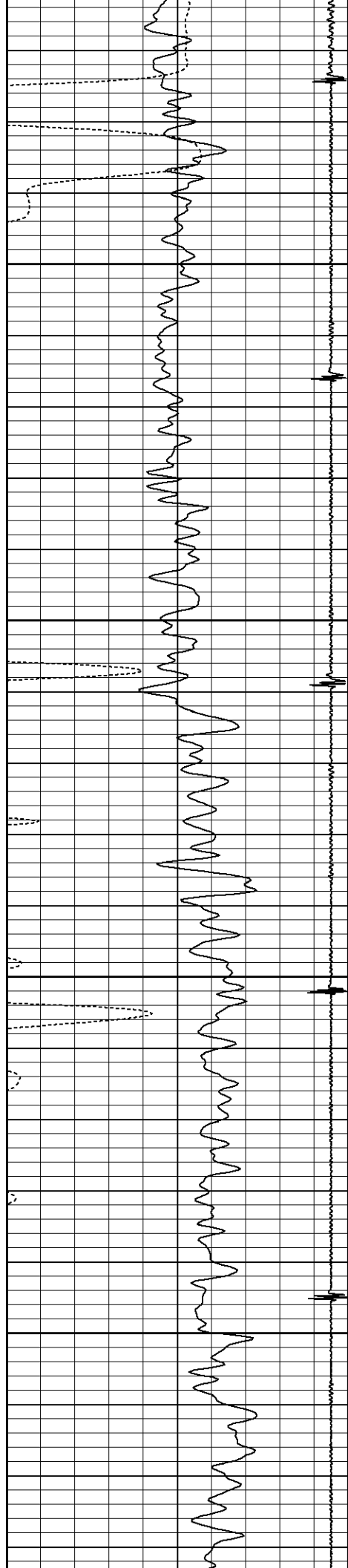
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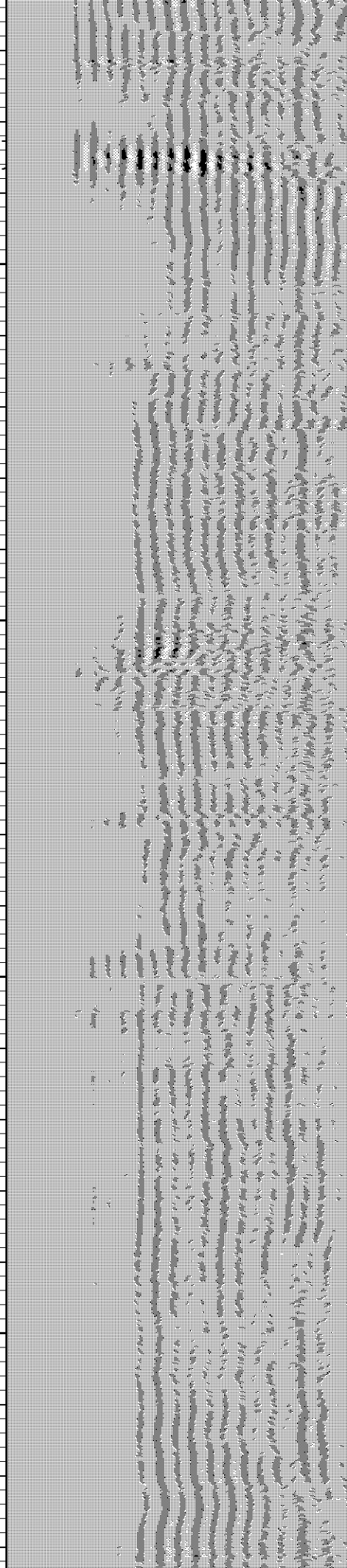
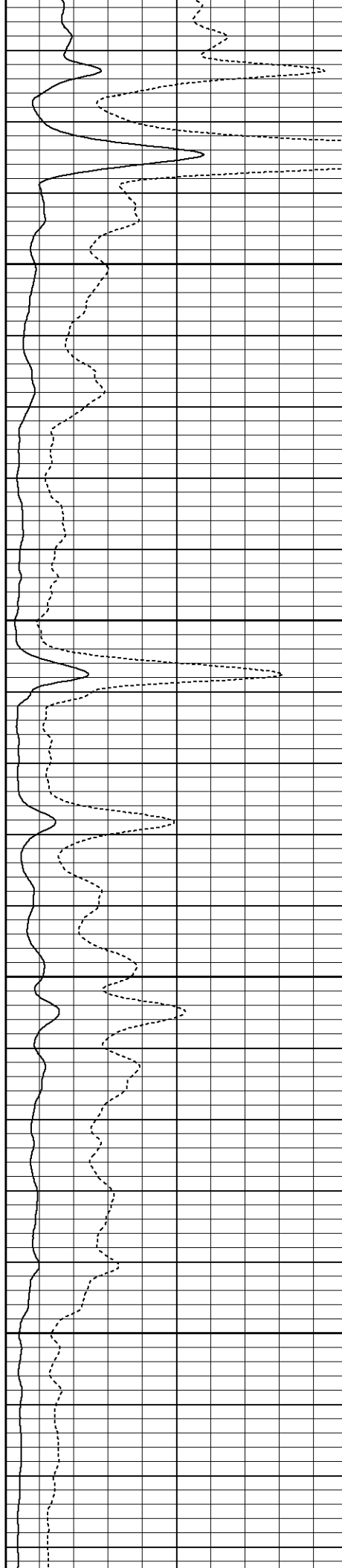


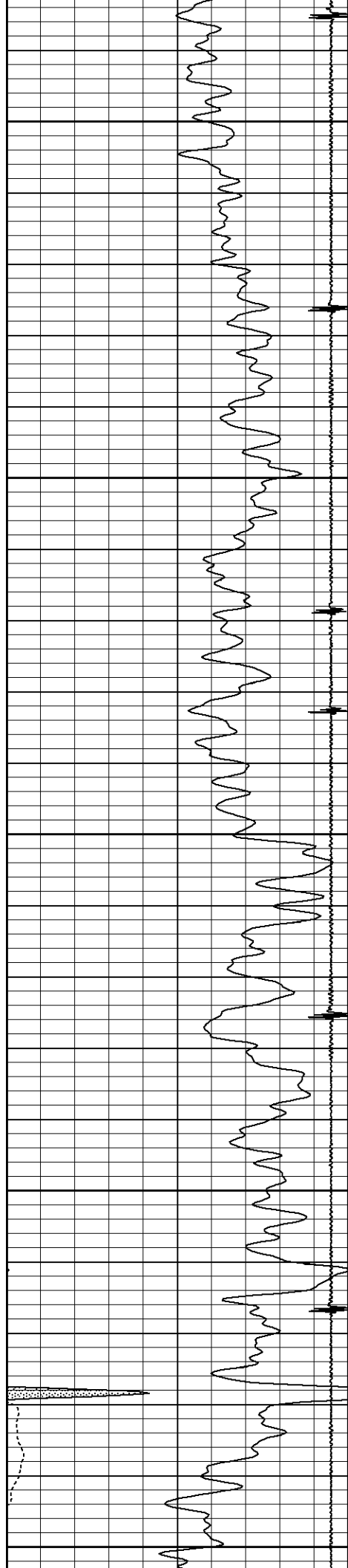
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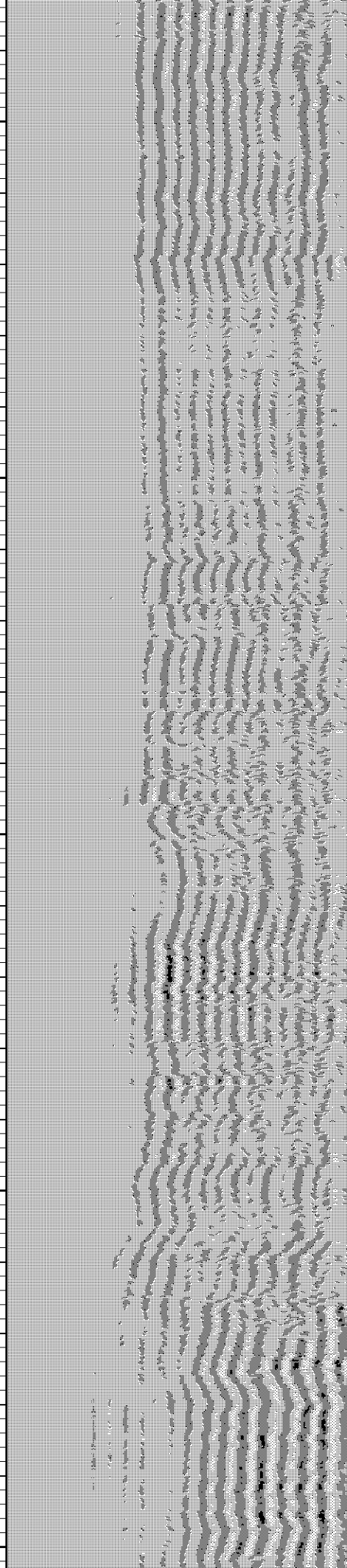
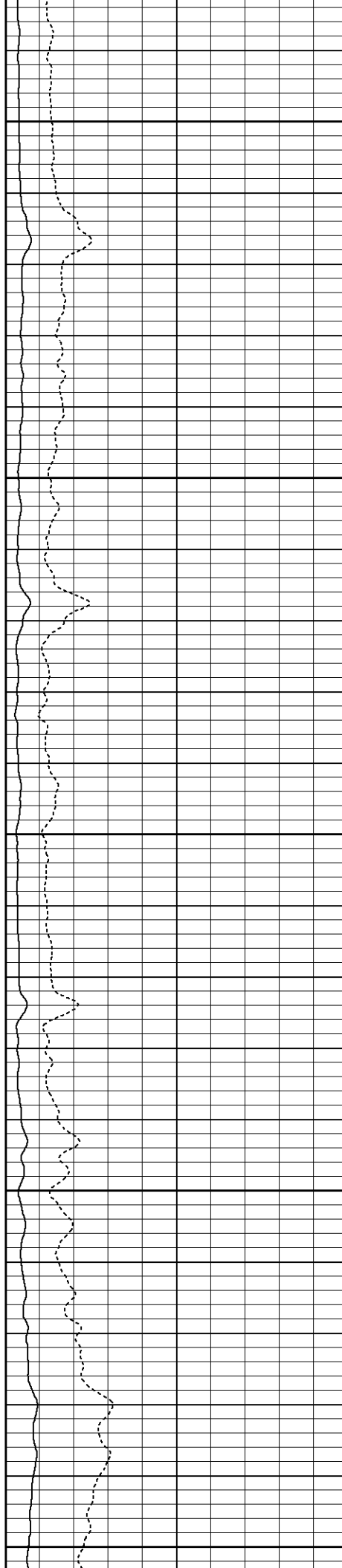
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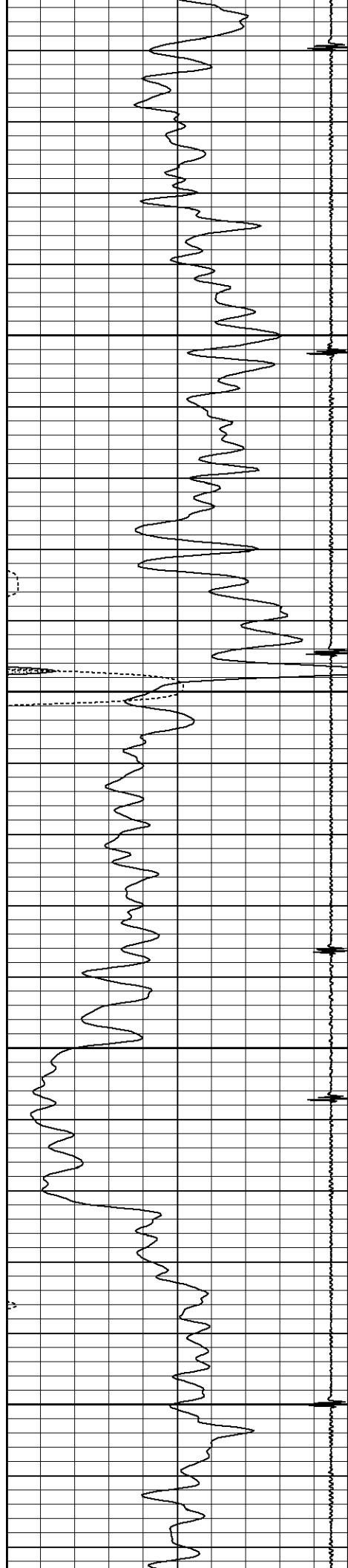
Flag Joint

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6950

7000





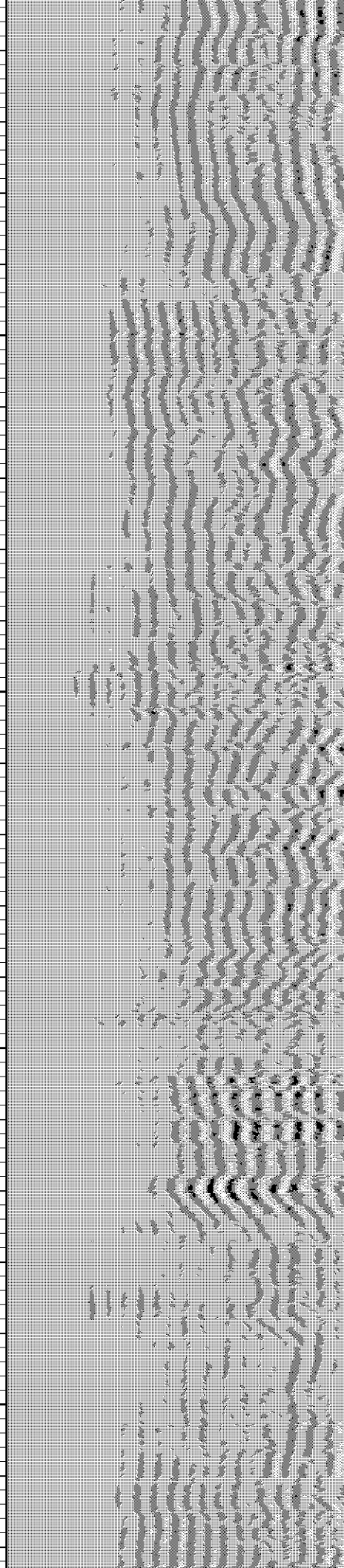
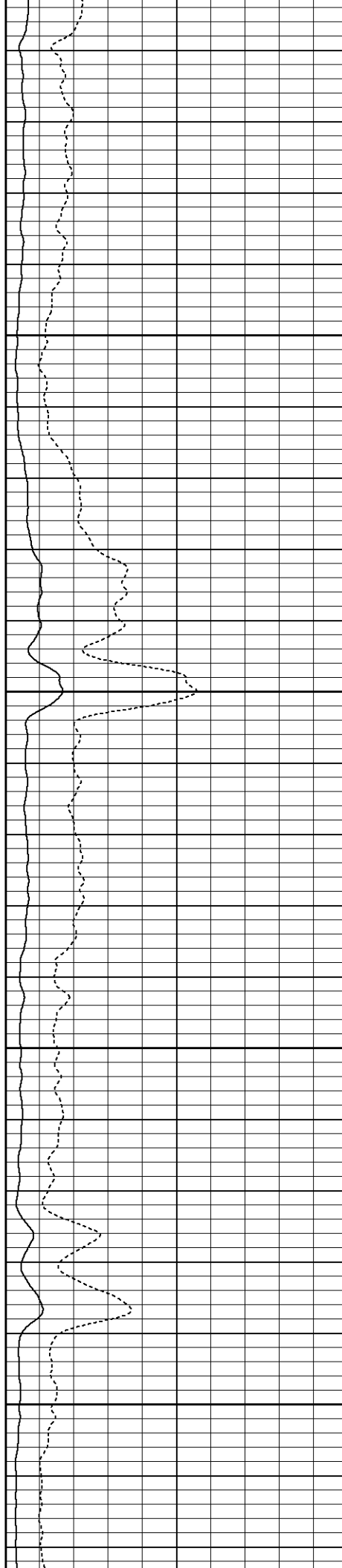
7050

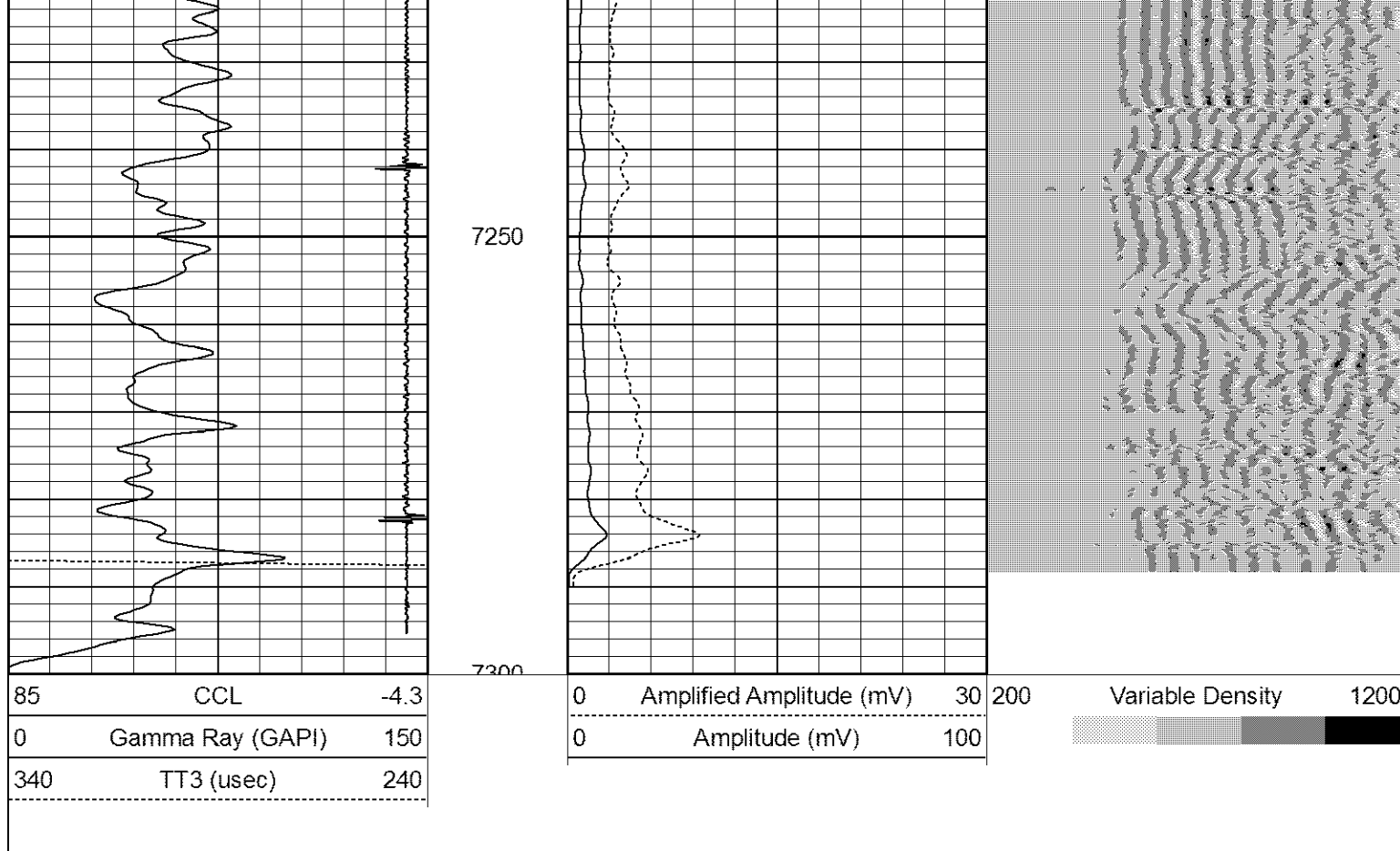
7100

Flag Joint

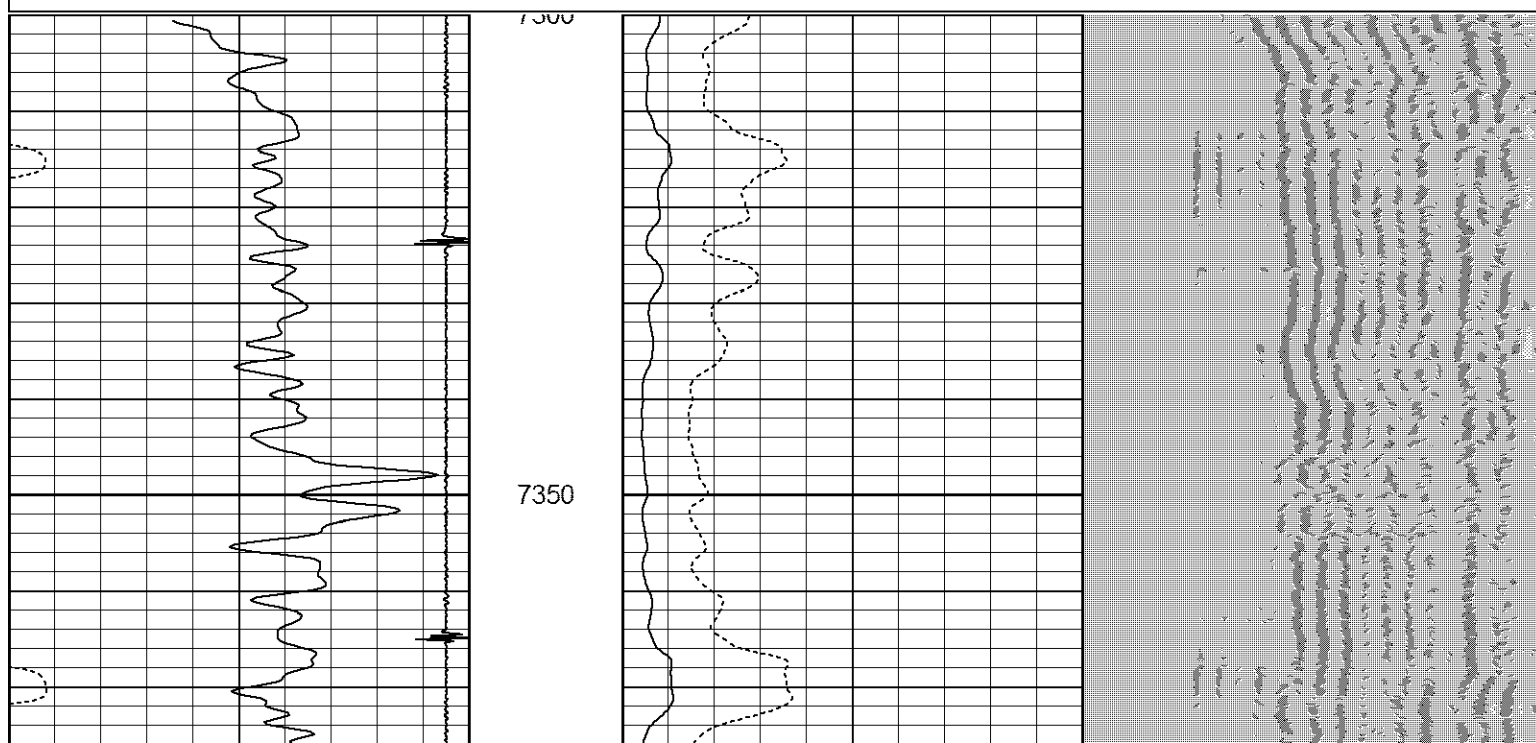
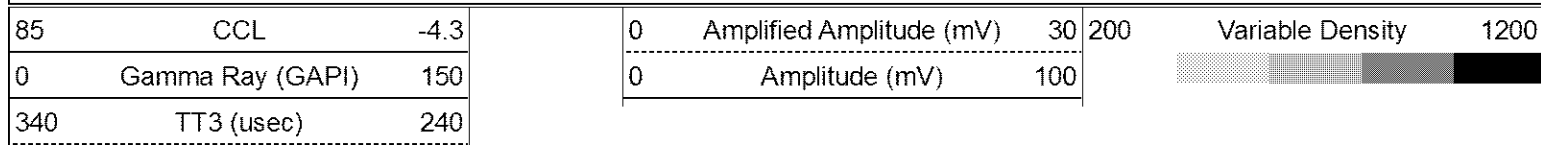
7150

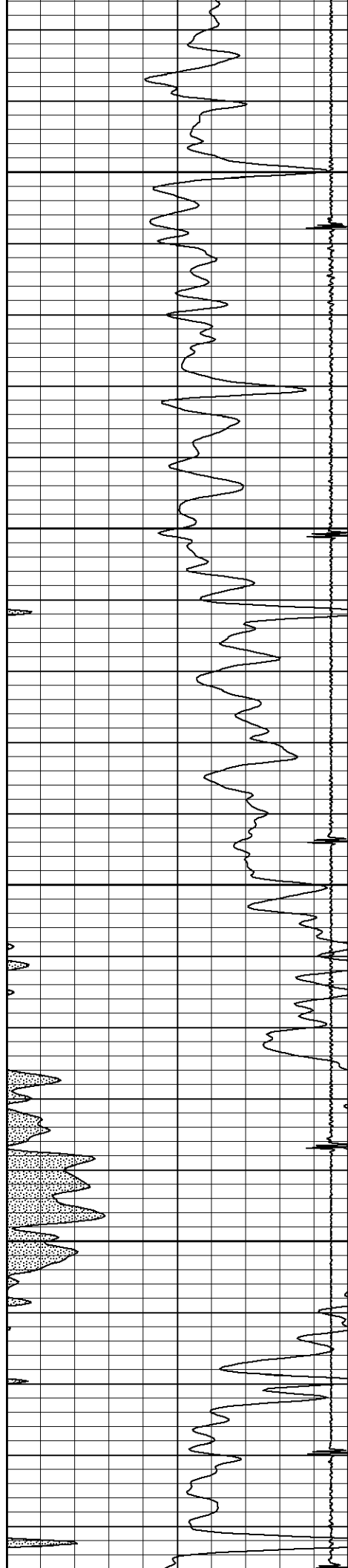
7200





Database File: cblmoser h28-29.db
 Dataset Pathname: pass2
 Presentation Format: noble en
 Dataset Creation: Tue Feb 07 09:30:57 2012 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240





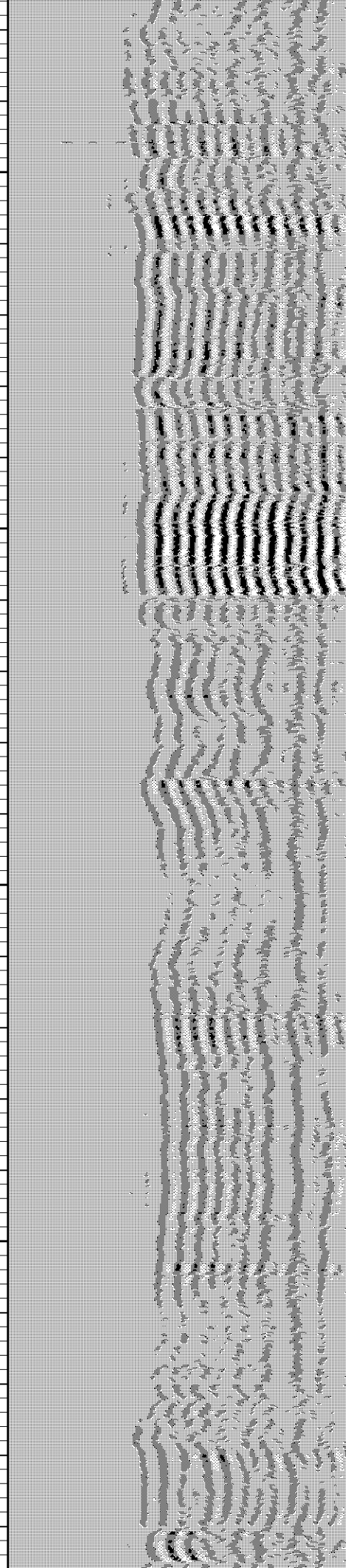
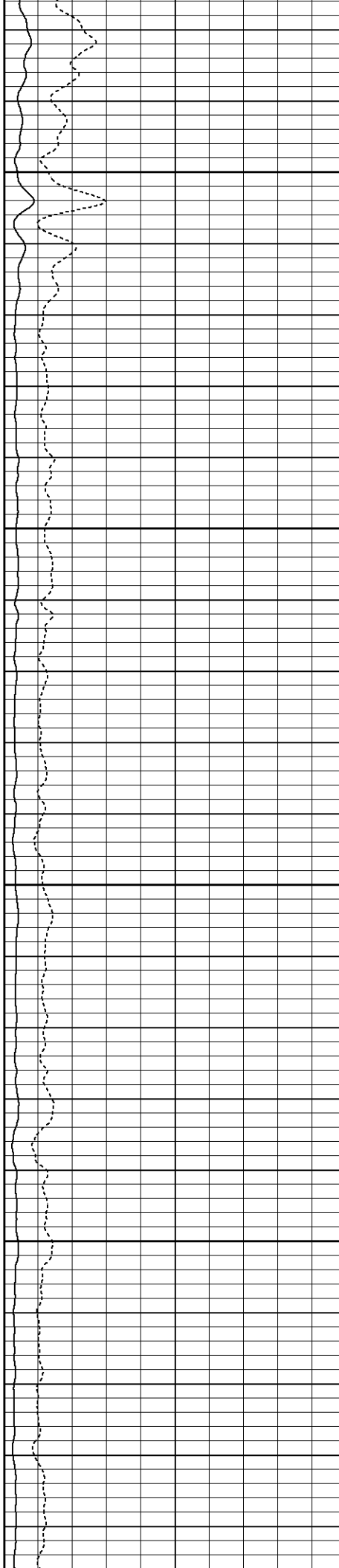
7400

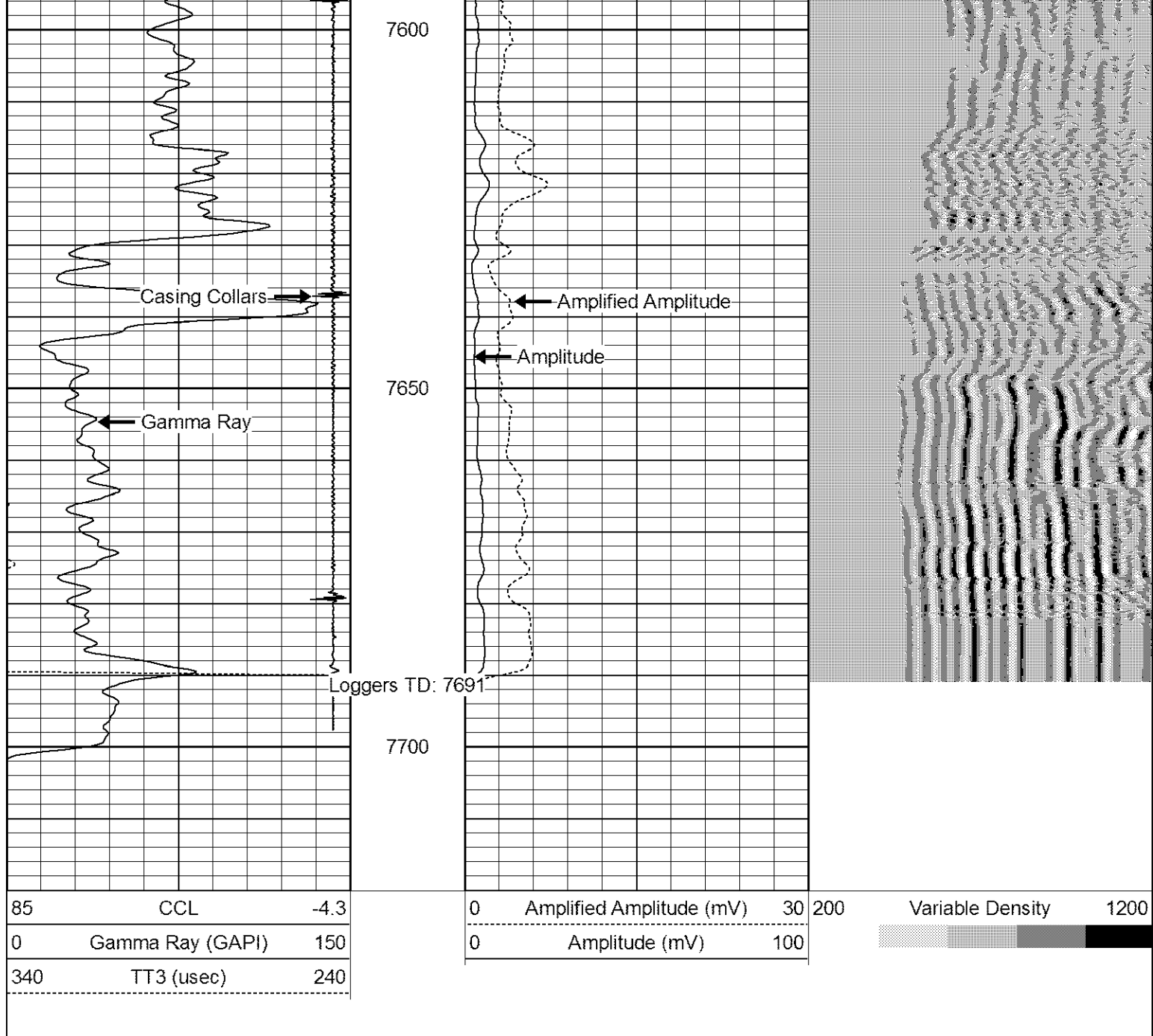
7450

7500

7550

Flag Joint





Calibration Report

Database File: cblmoser h28-29.db
 Dataset Pathname: pass4
 Dataset Creation: Tue Feb 07 09:59:57 2012 by Log SCH 111116

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION

Thu Feb 02 09:29:21 2012

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

PRIMARY VERIFICATION

Background	0.0	cps
Calibrator	0.0	cps
Difference		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 Feb 02 09:14:37 2012		
Depth:	971.475	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:	0.0133789	0.0133545	V
Reading in Free Pipe:	2.48728	2.31978	V
Gain:	32.4573	35.2044	
Offset:	0.465757	-0.470137	