

CEMENT BOND LOG GAMMA RAY CCL V D L

Company Noble Energy INC.
Well DYER USX AB35-68-1HN
Field Wattenberg
County Weld State Colorado

Location: API #: 05123347730000 Other Services

SEC 34 TWP 7N RGE 64W
Permanent Datum GL Elevation 4871
Log Measured From KB 24'
Drilling Measured From KB
Elevation
K.B. 4895
D.F. 4894
G.L. 4871

Date April 25, 2012

Run Number One
Depth Driller 11,351 est
Depth Logger 7161
Bottom Logged Interval 7160
Top Log Interval Surface
Casing Size 7.0"
Type Fluid Water
Max. Recorded Temp. 211 deg F
Estimated Cement Top Surface
Time Well Ready Crane
Time Logger On Bottom AM
Unit Number 4367 3839
Tool Size / ID Number 2.75 Probe 101010 2.75 Probe 110802
Location Platteville, CO
Recorded By K. Monaghan
Witnessed By B. Mansfield

Borehole Record
Run Number Bit From To Size Weight From To

Casing Record
Surface String 9 5/8" 36 lb/ft J-55 Top Surface Bottom 839.7

Prot. String 7.0" 26 lb/ft P-110 Surface 7396.1
Production String 4 1/2" 11.6 lb/ft P-110 7274.3 11,351
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

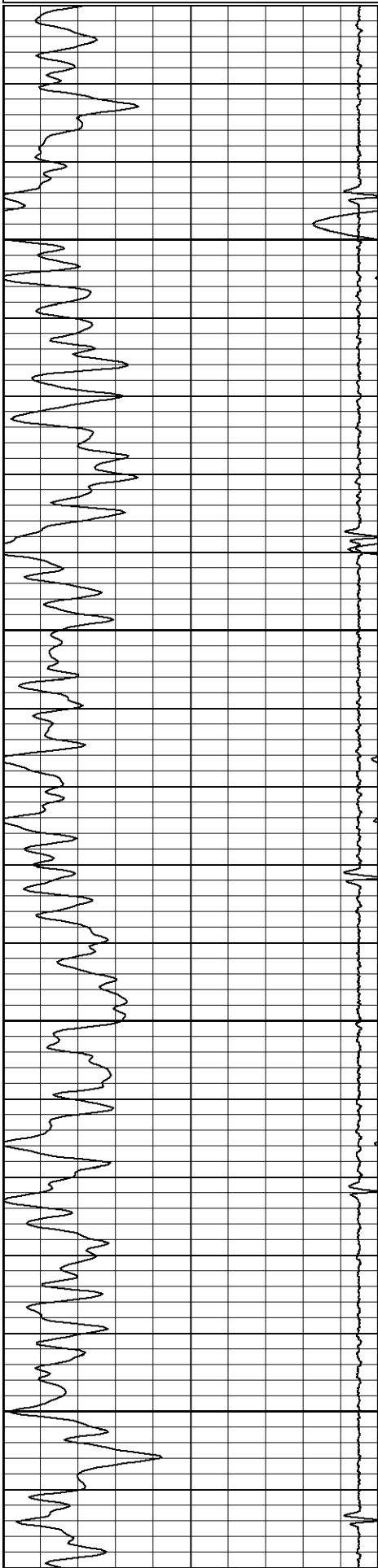
Thank You For Choosing Superior Well Services!!!
API# 05-123-34773-0000
Wireline Zero @ 24' KB
Directions: 76 & 57, W 1/10, S Into
(West Well of 3 Well Pad)

Database File: cblodyer usx ab35-68-1hn.db
Dataset Pathname: pass4
Presentation Format: noble en
Dataset Creation: Wed Apr 25 10:48:45 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	200
0	Amplitude (mV)	100	

	Variable Density	1200
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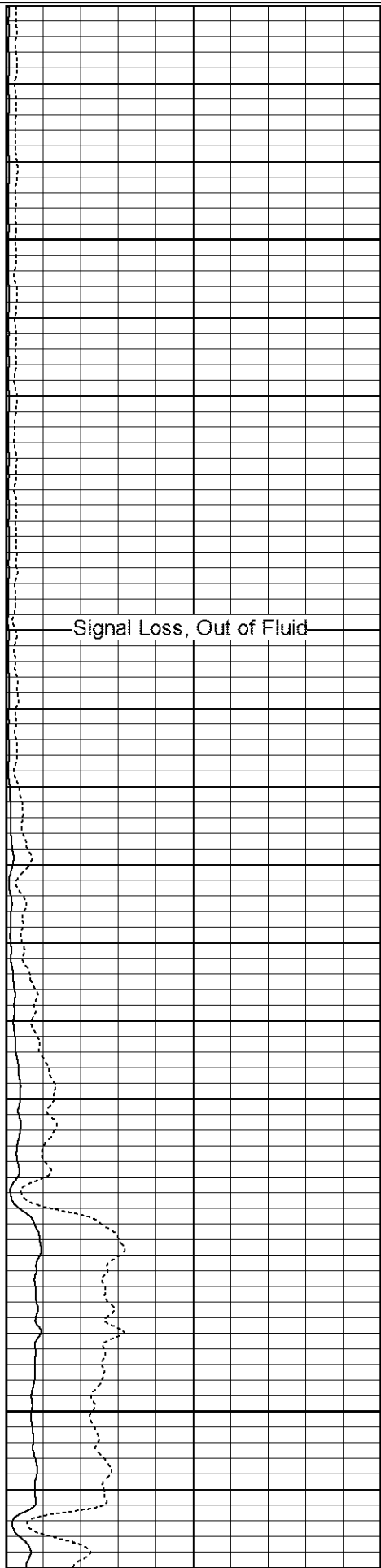


250

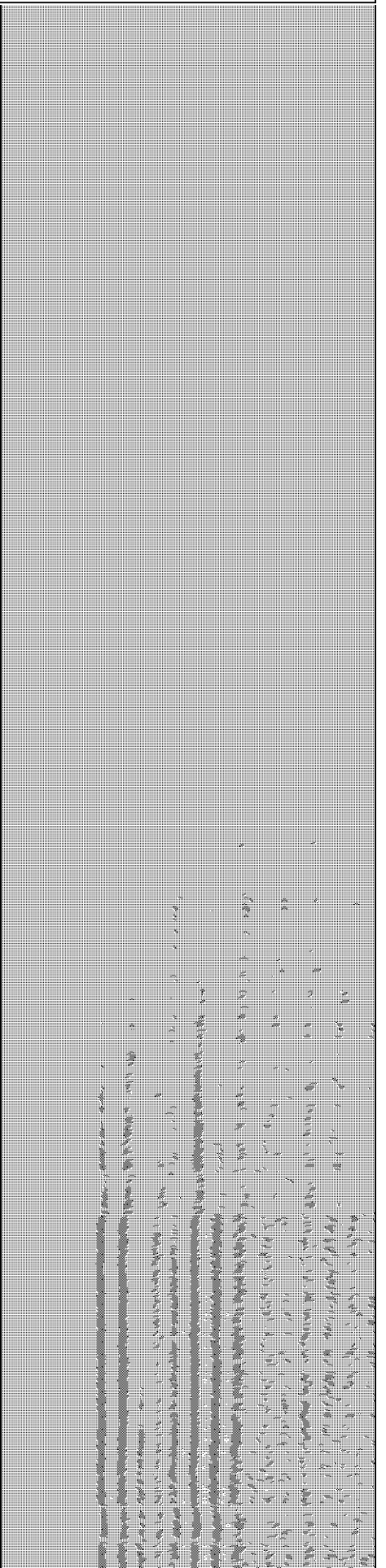
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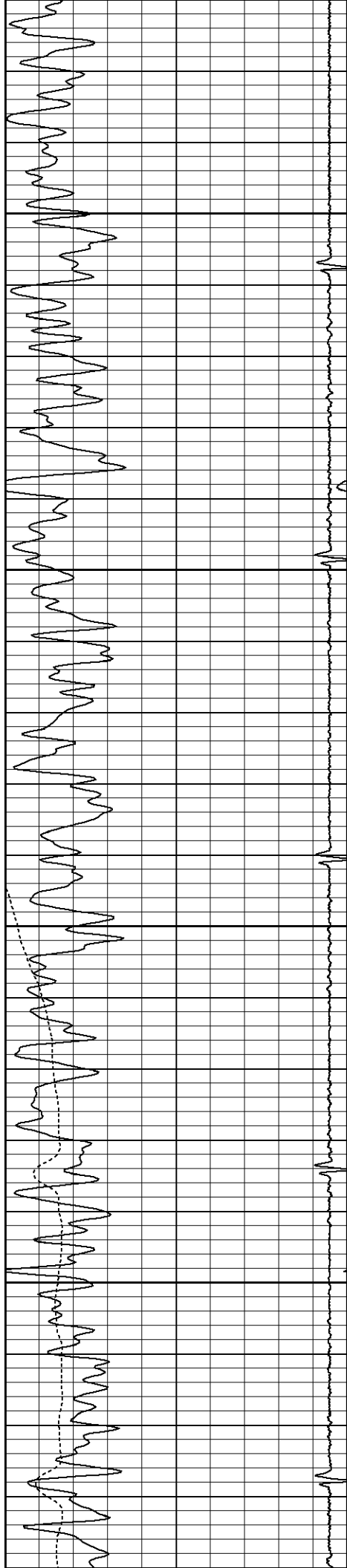
350

400



Signal Loss, Out of Fluid





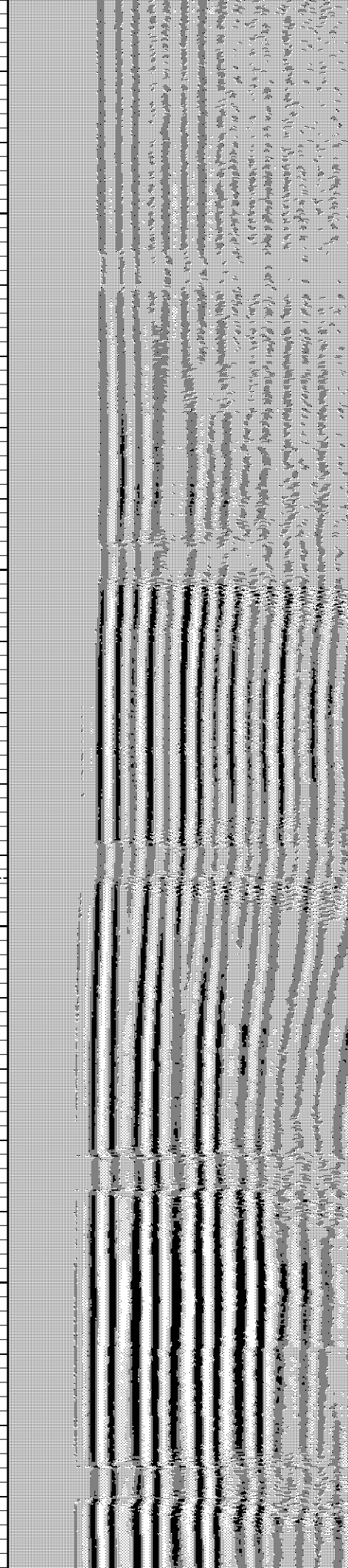
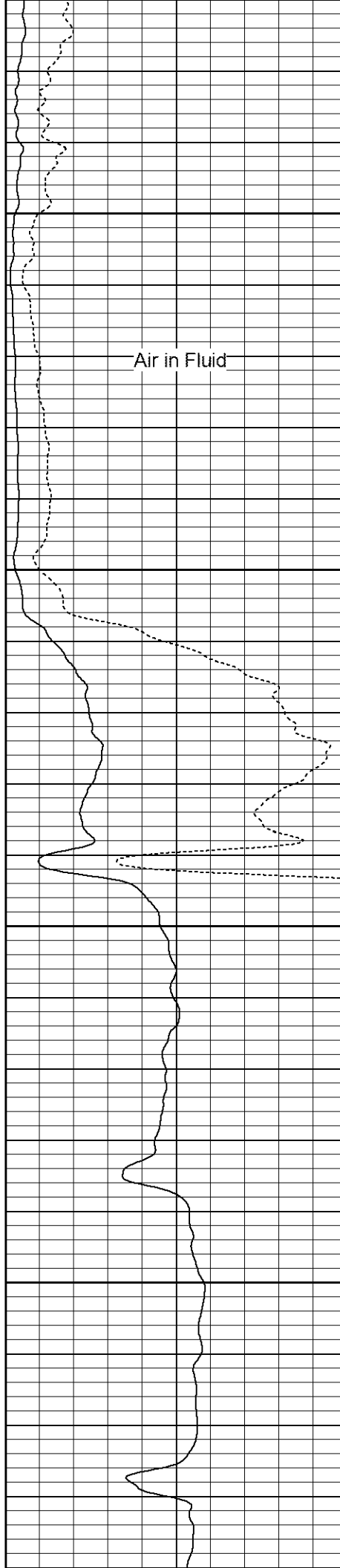
450

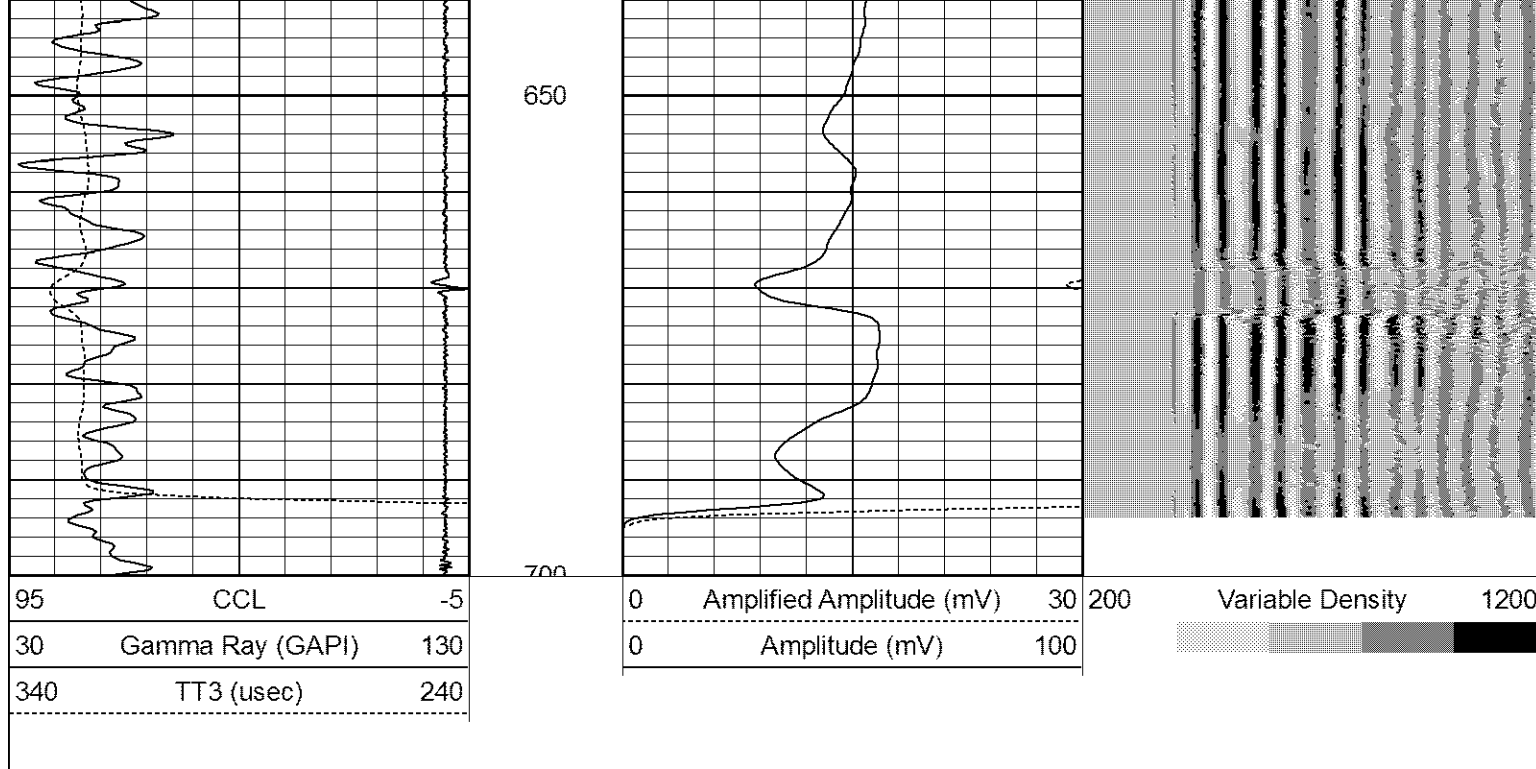
Air in Fluid

500

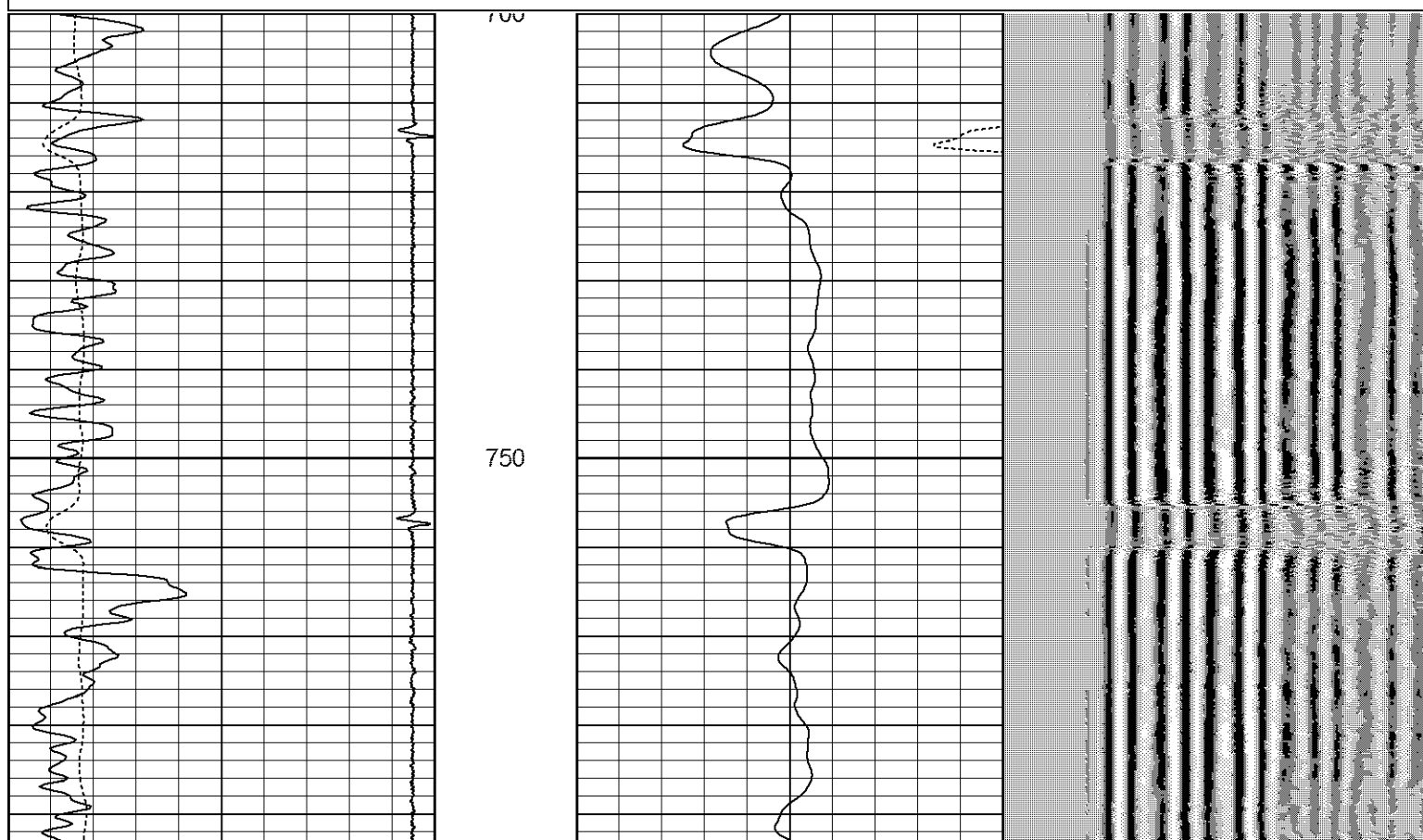
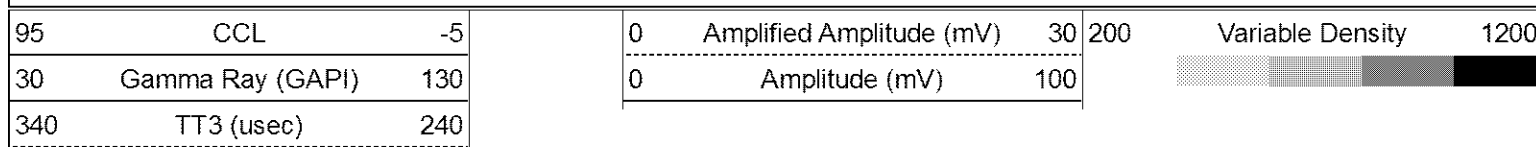
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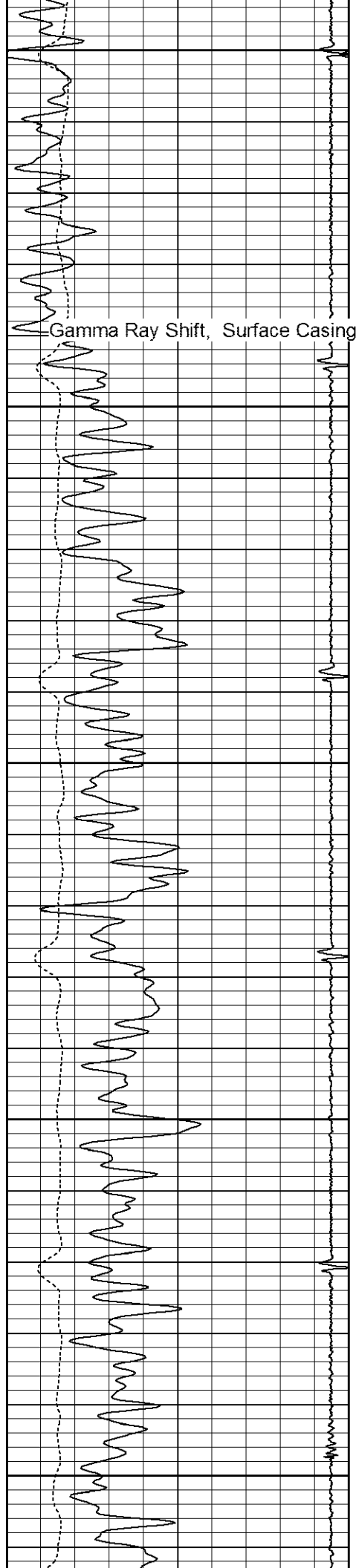
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Database File: cblayer usx ab35-68-1hn.db
 Dataset Pathname: pass3
 Presentation Format: noble en
 Dataset Creation: Wed Apr 25 10:07:21 2012 by Log SCH 120126
 Charted by: Depth in Feet scaled 1:240





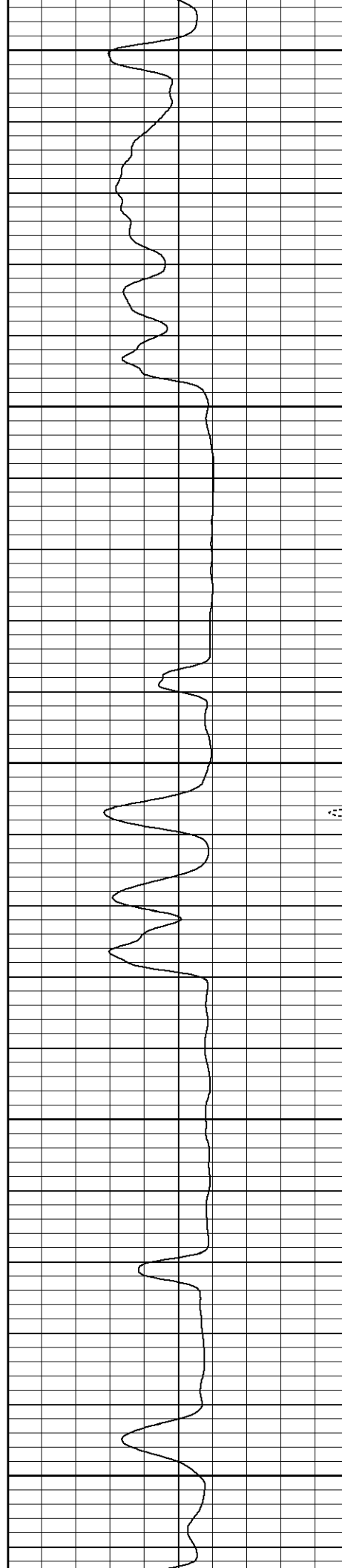
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850

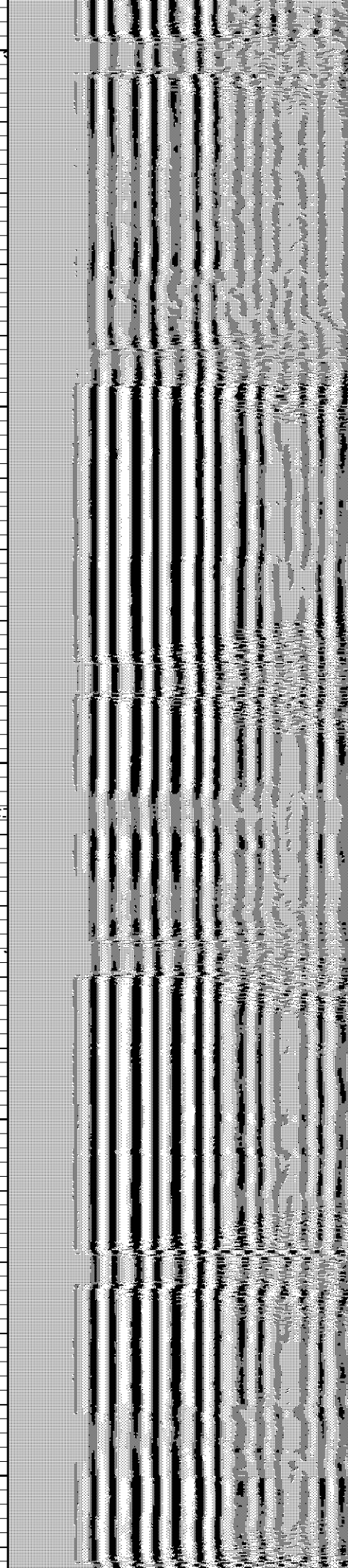
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950

1000



A



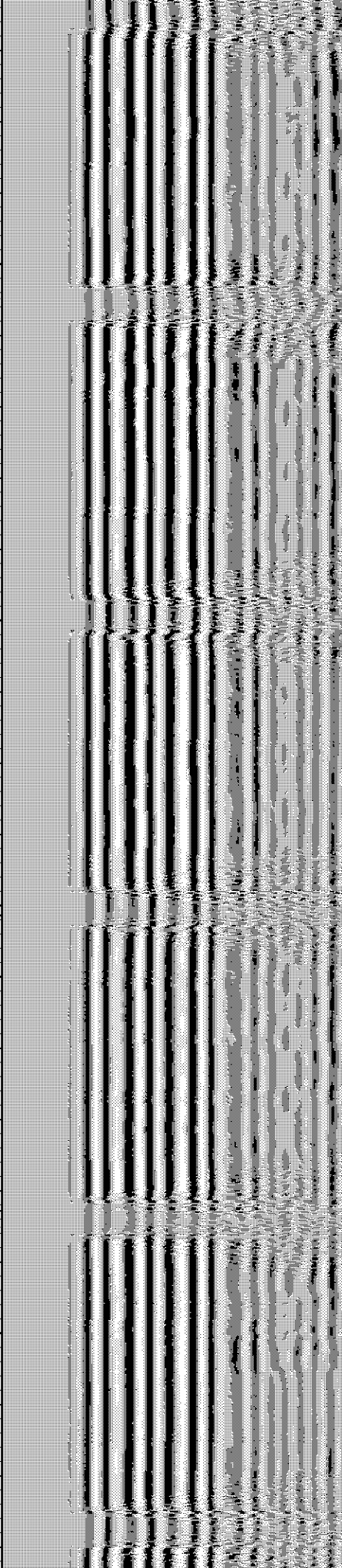
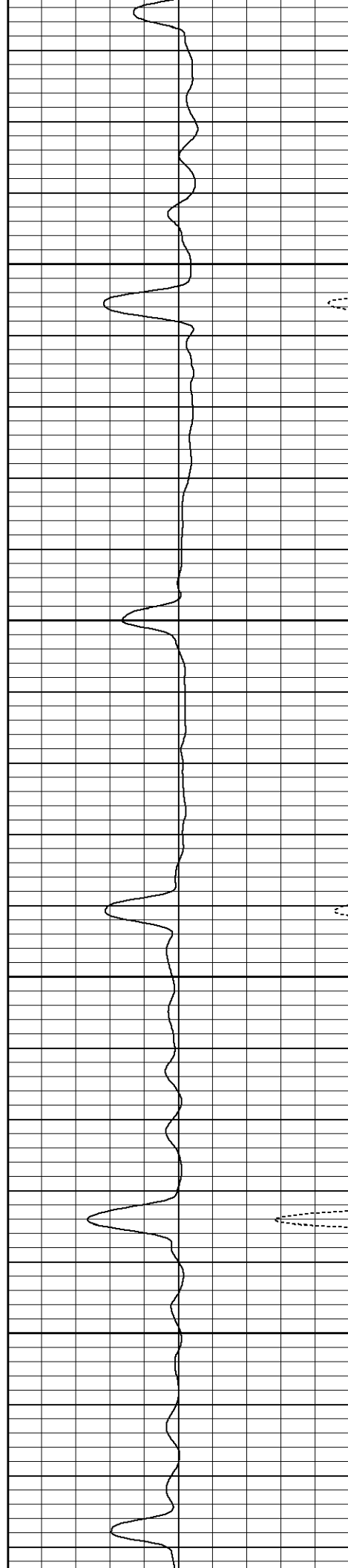


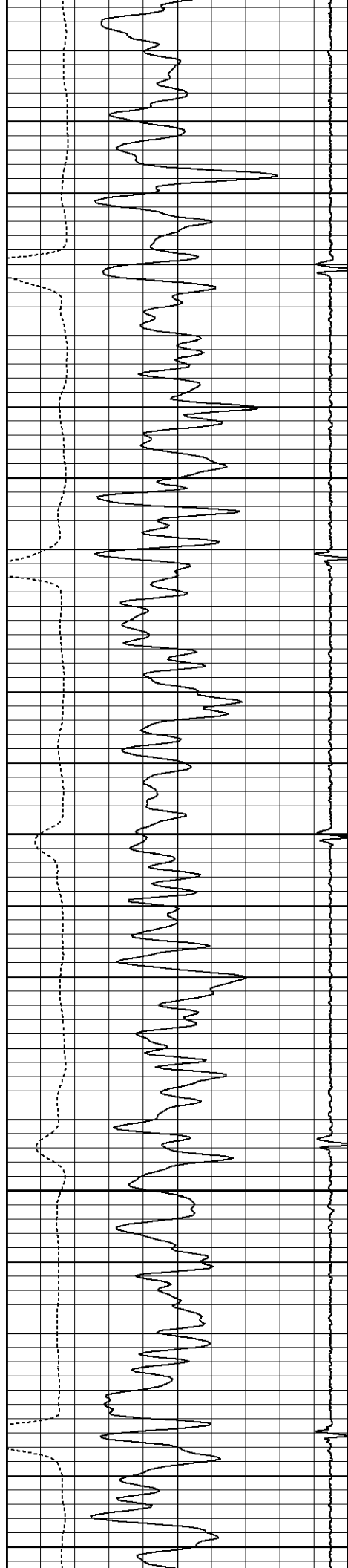
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1100

1150

1200





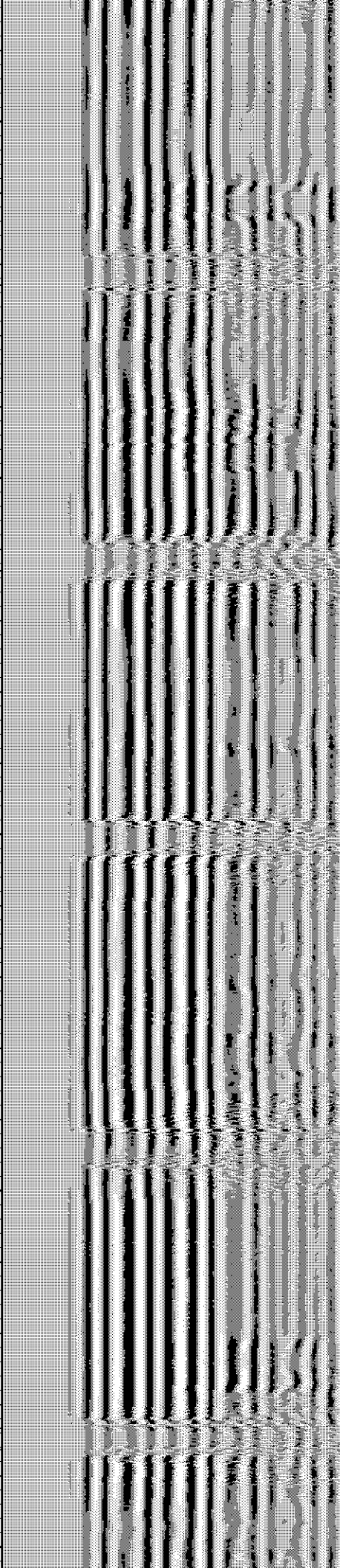
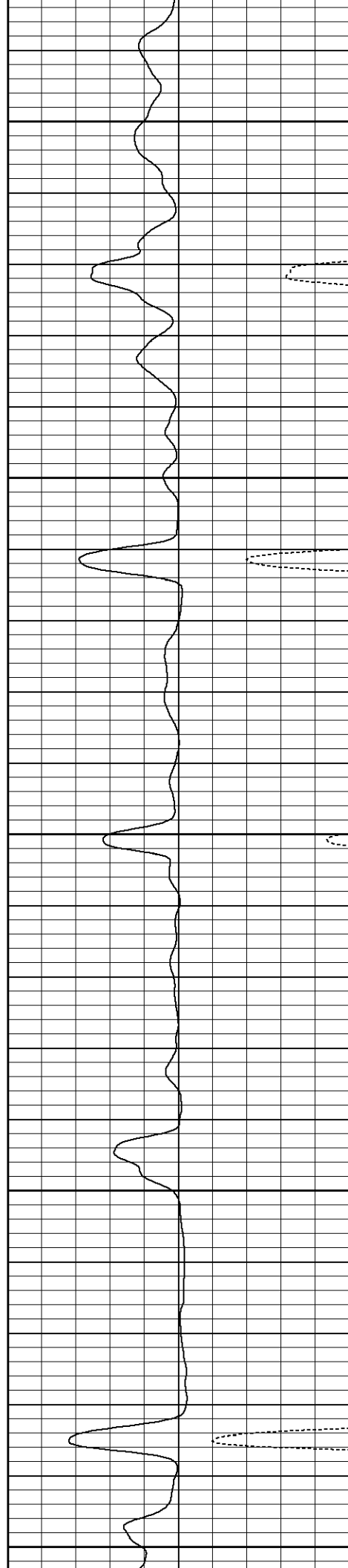
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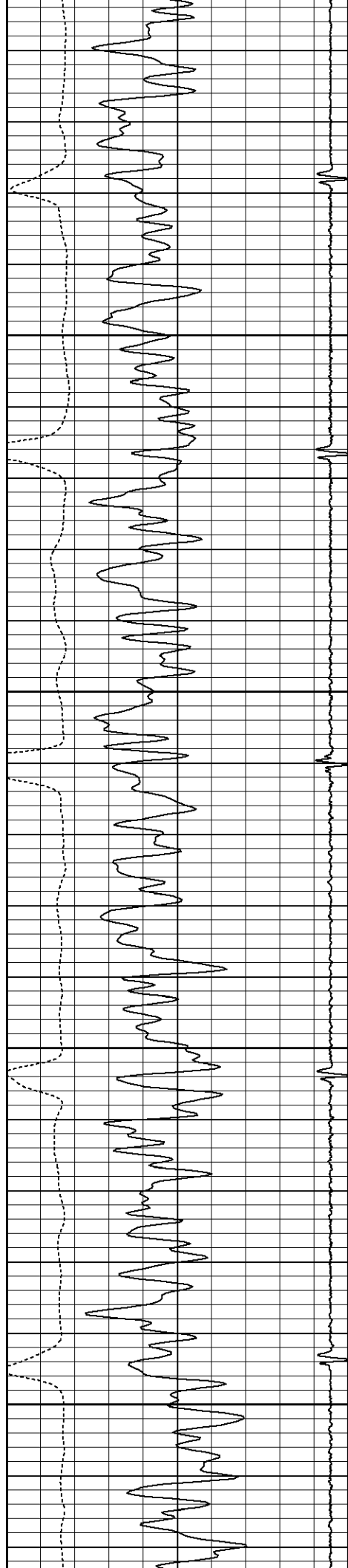
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1450



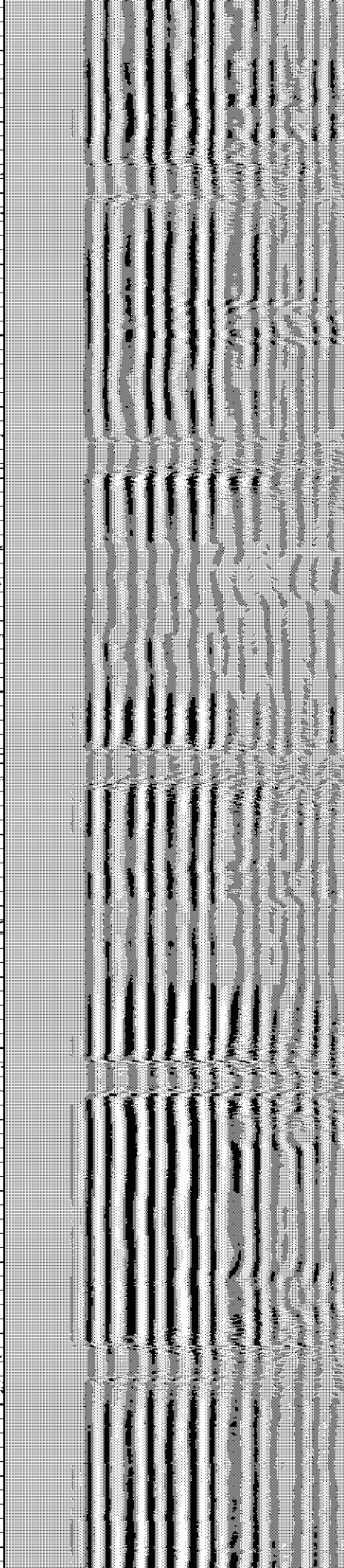
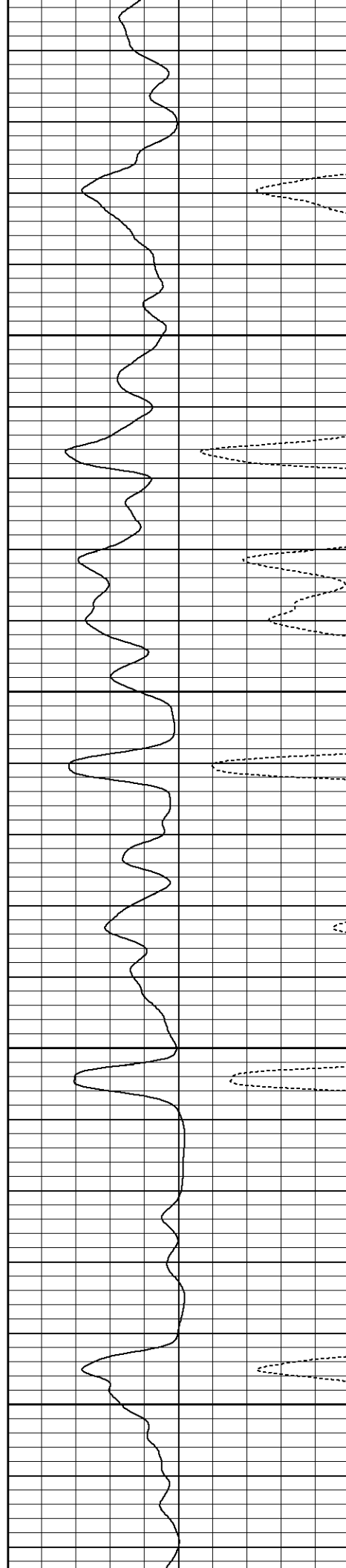


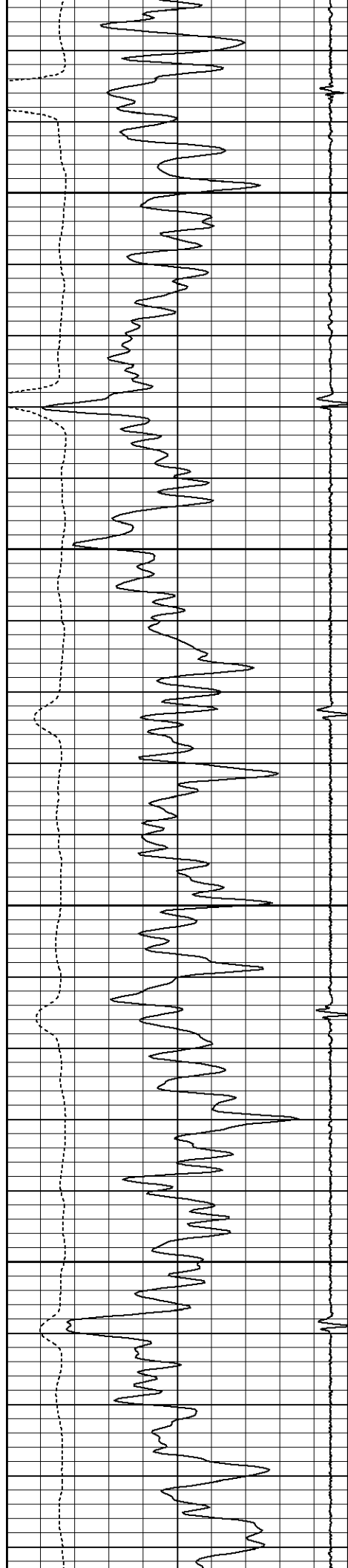
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1600

1650



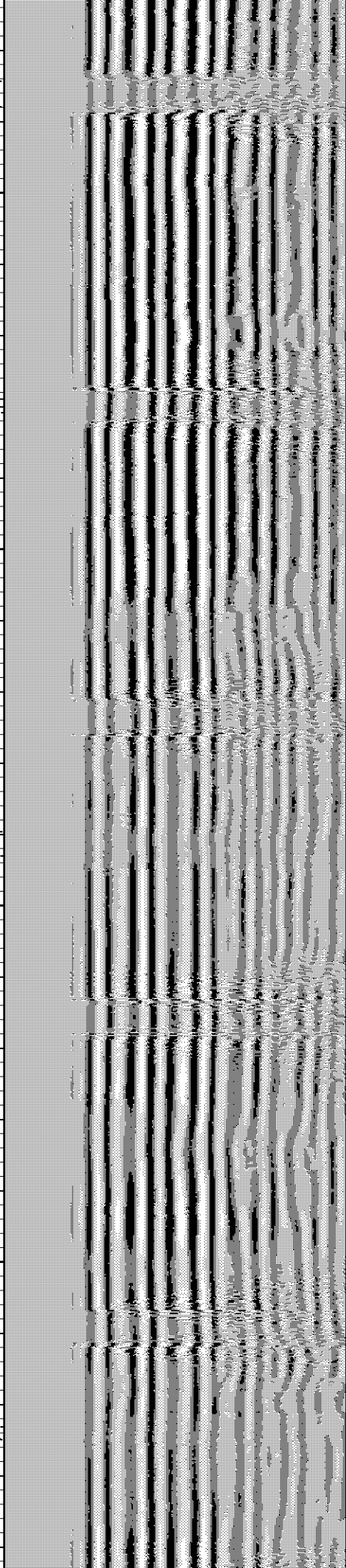
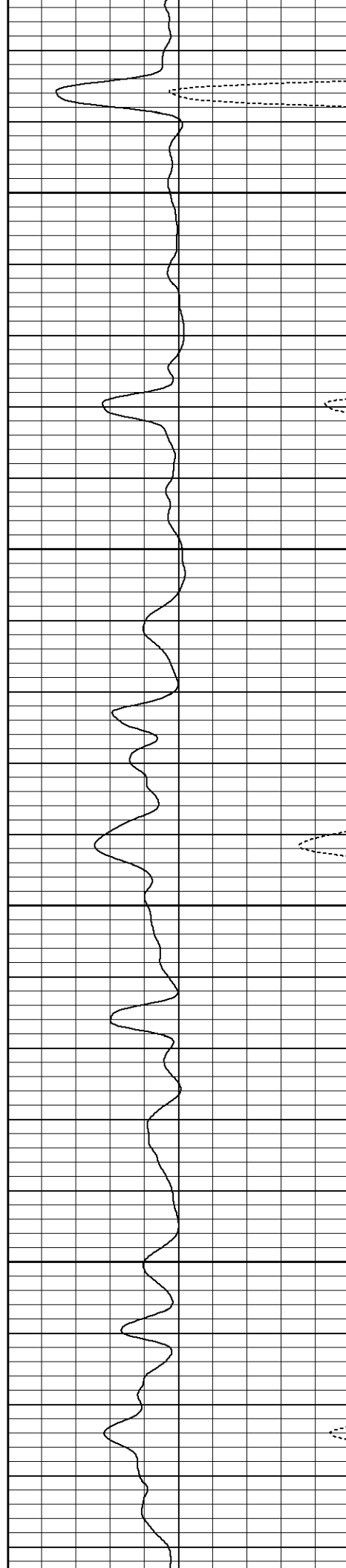


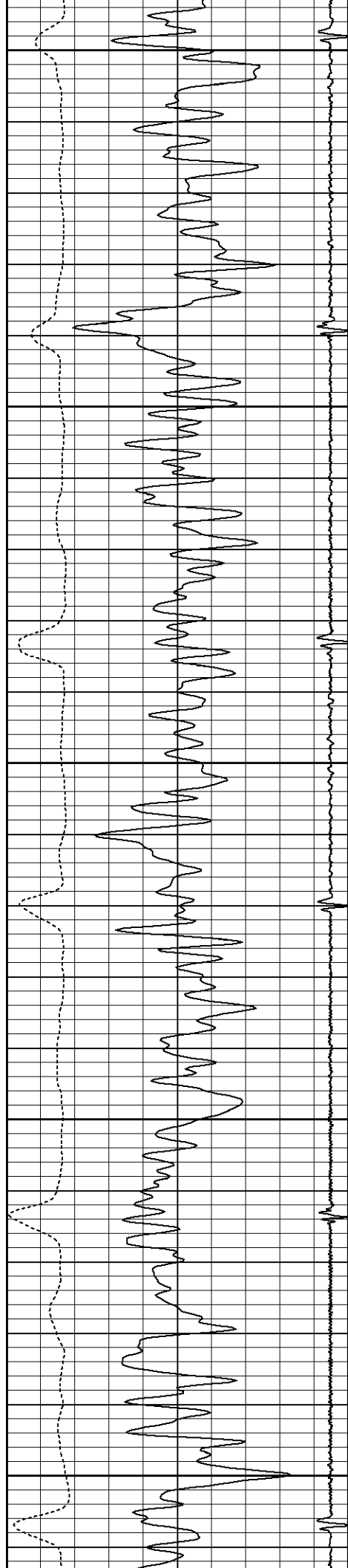
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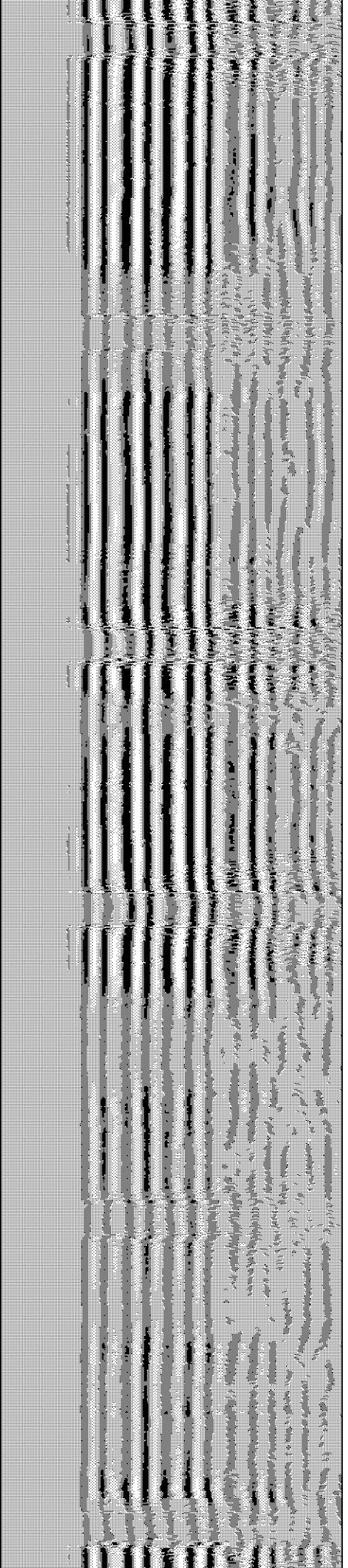
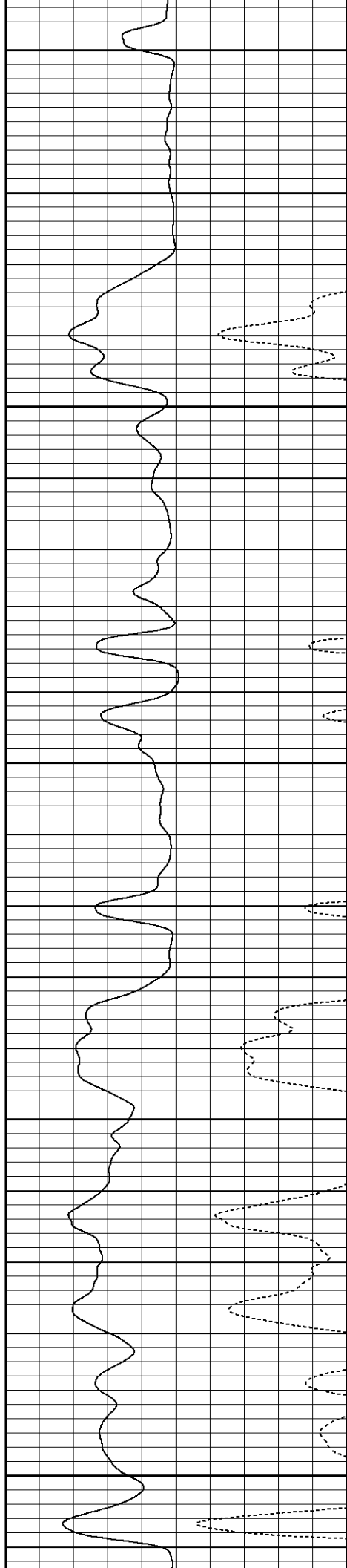
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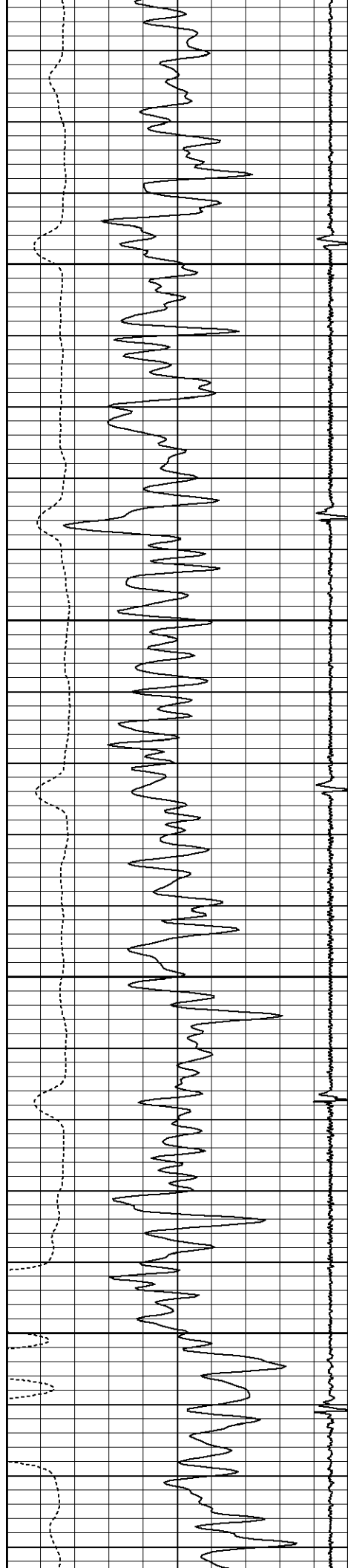
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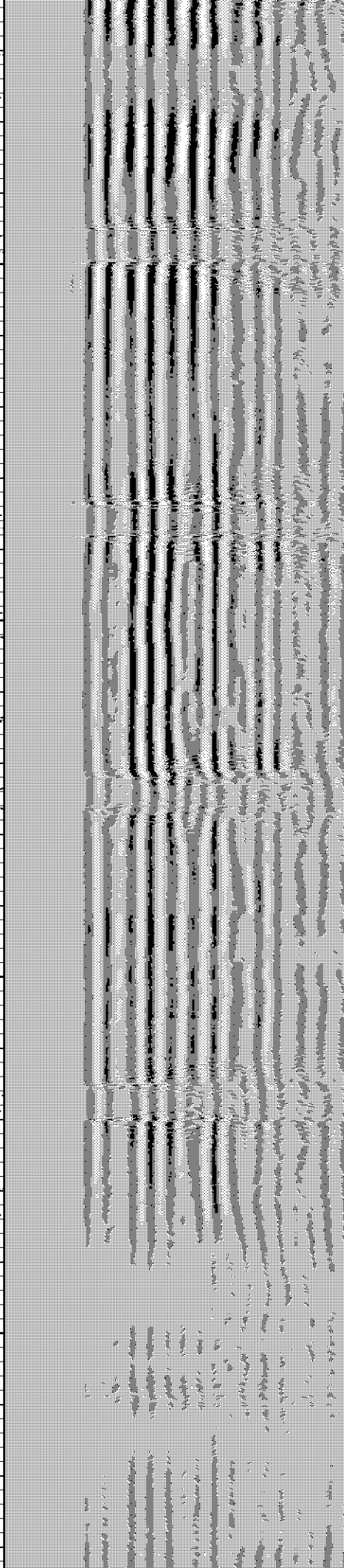
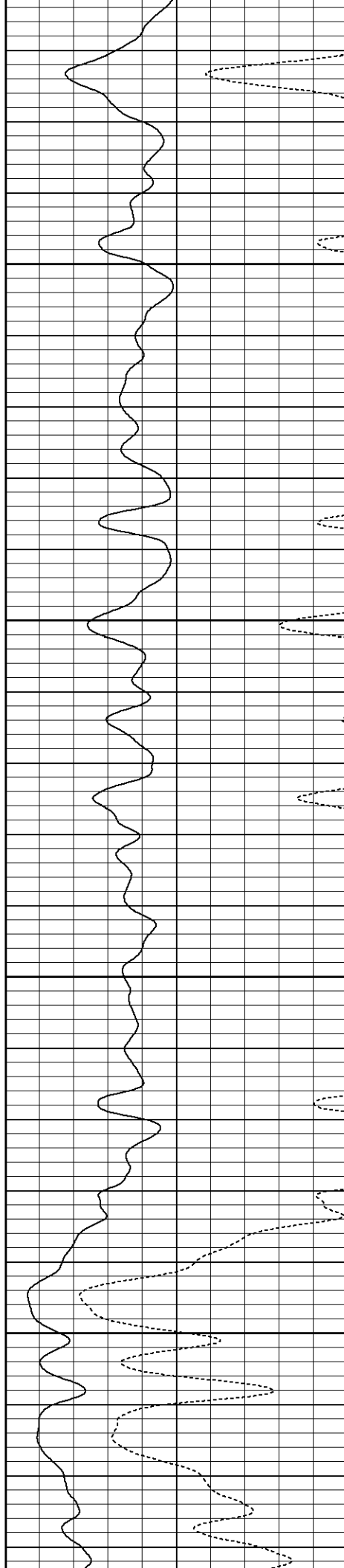


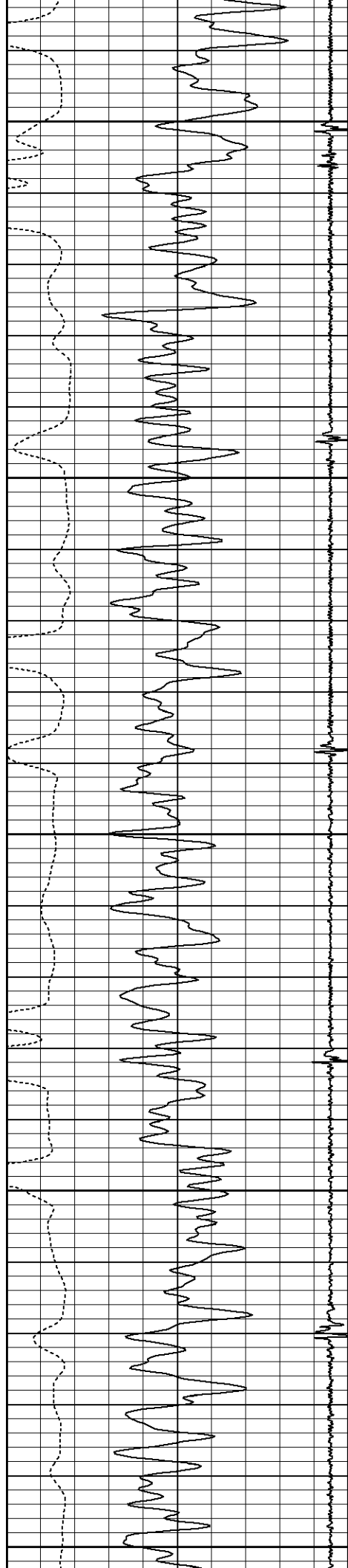
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2300





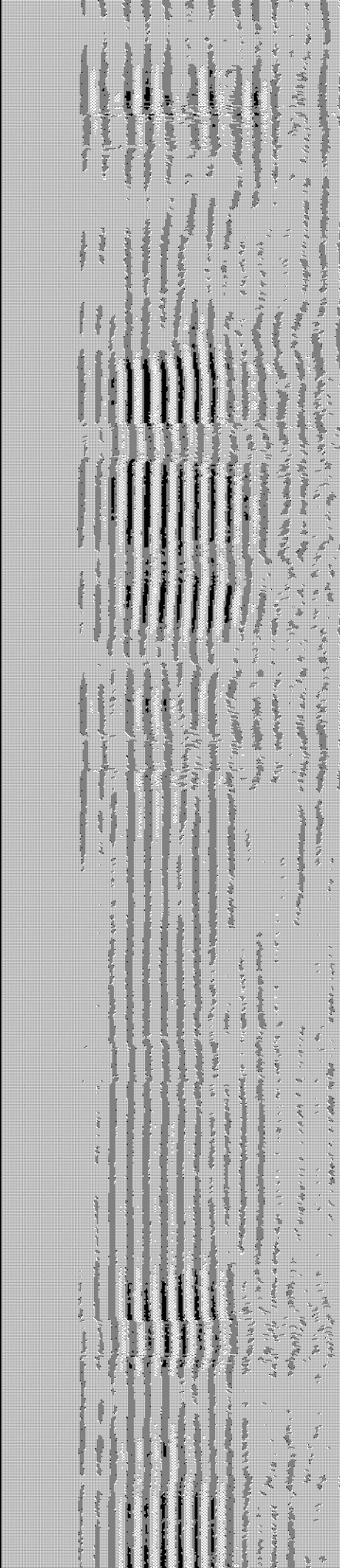
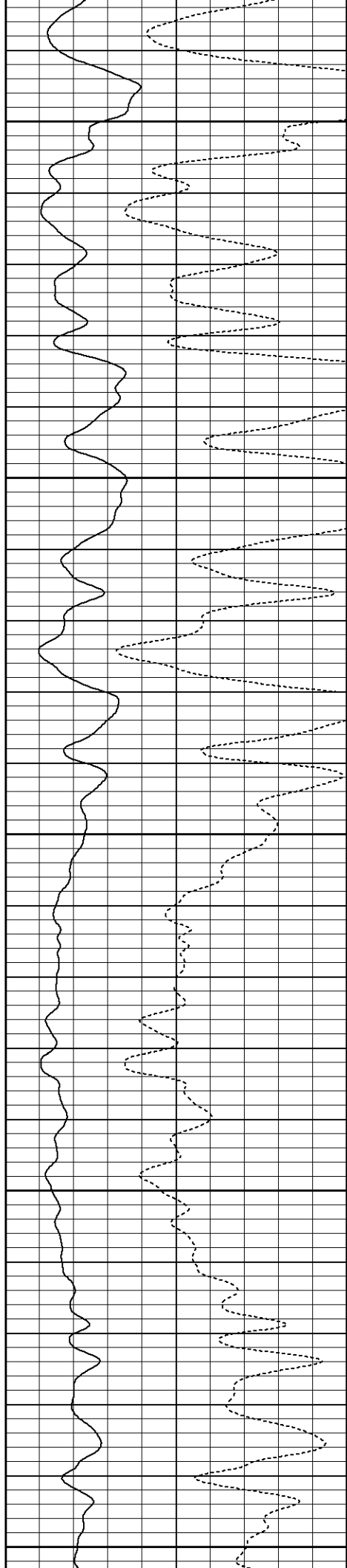
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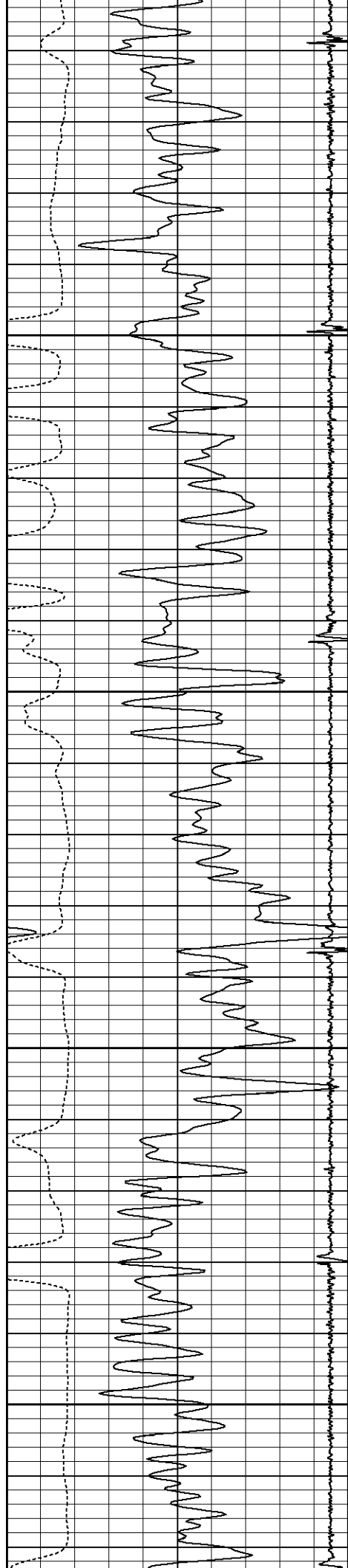
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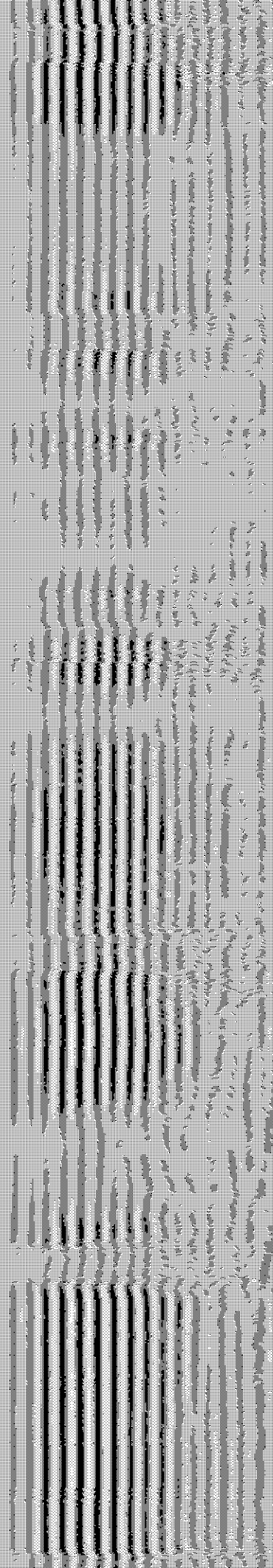
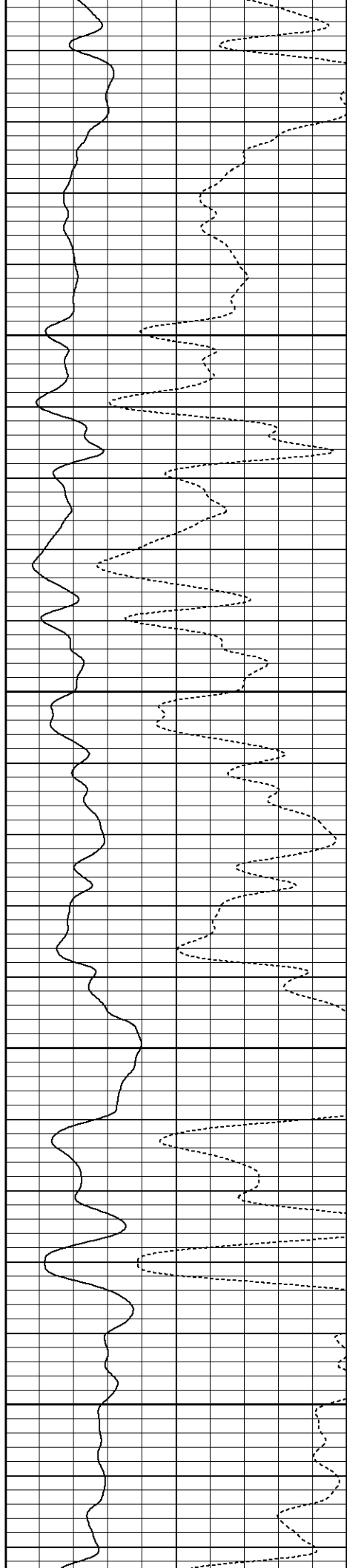


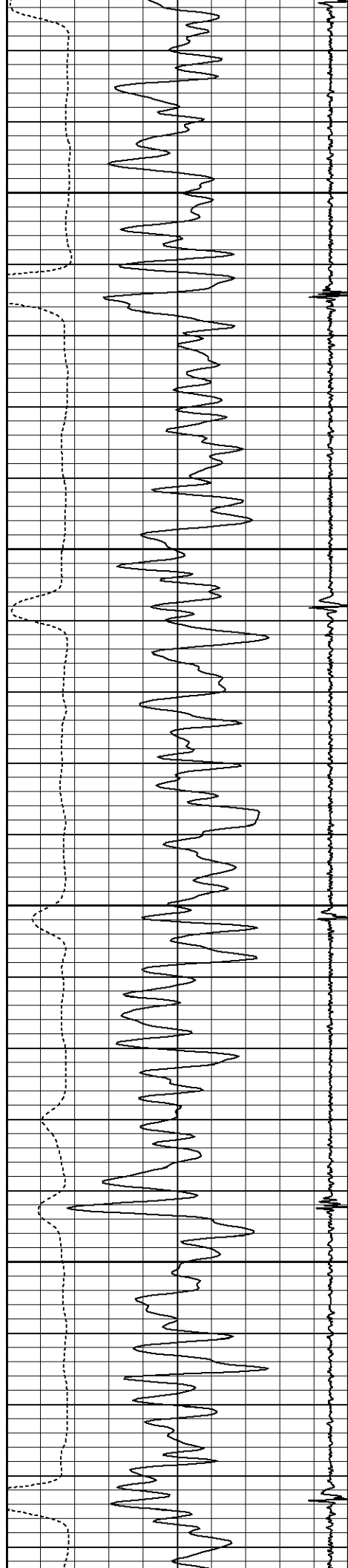
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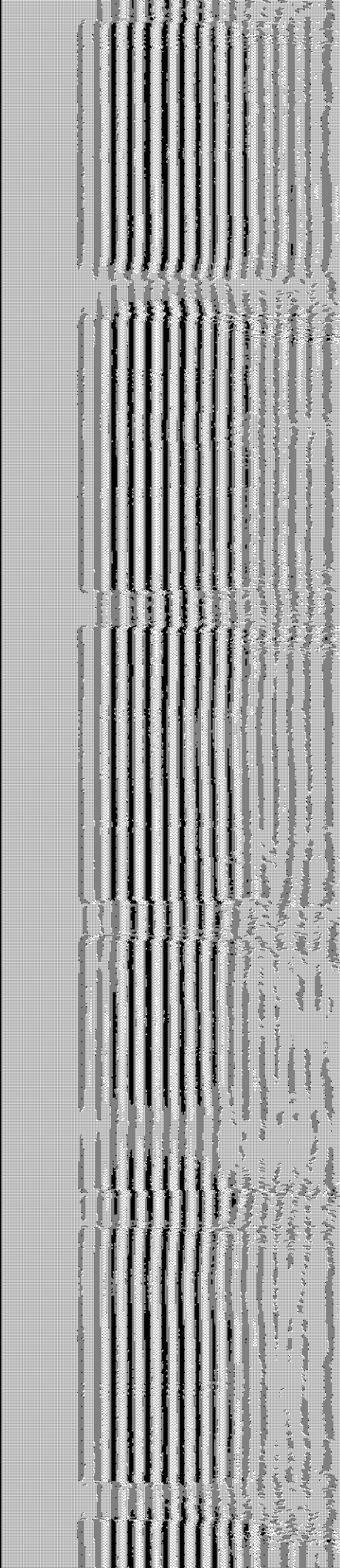
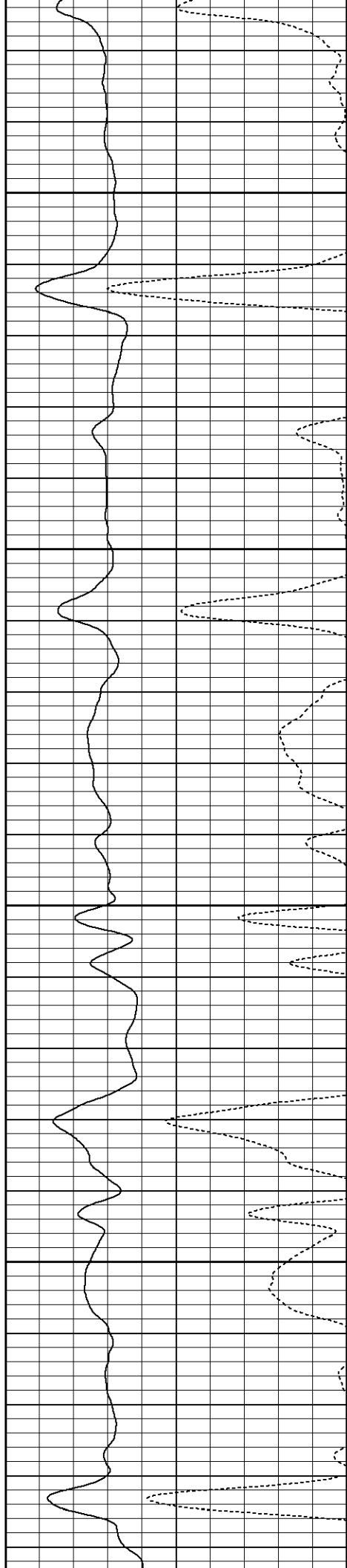


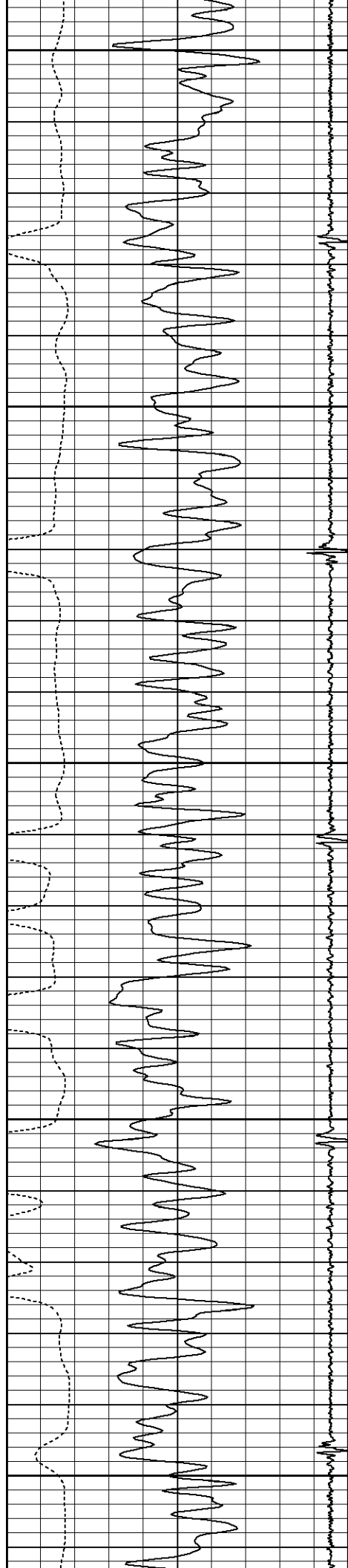
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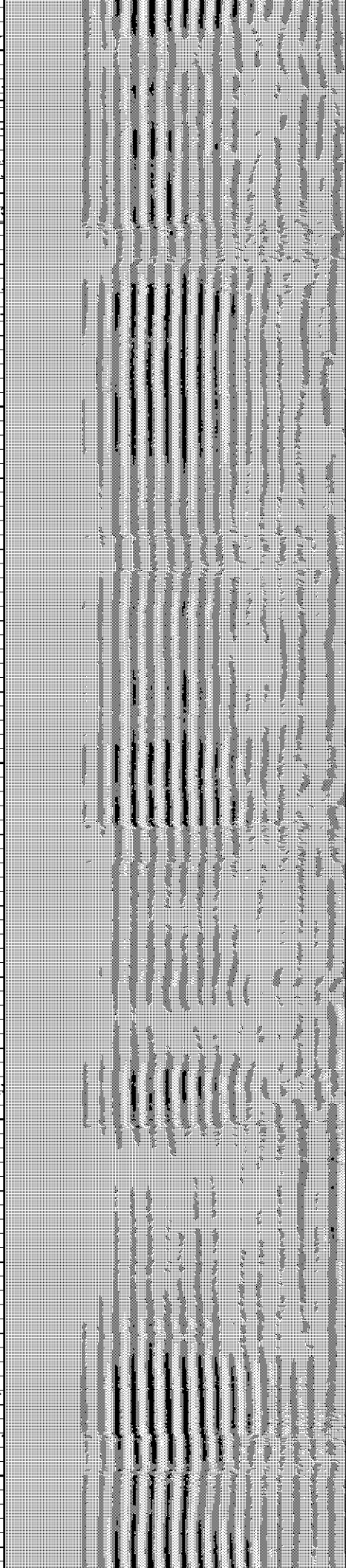
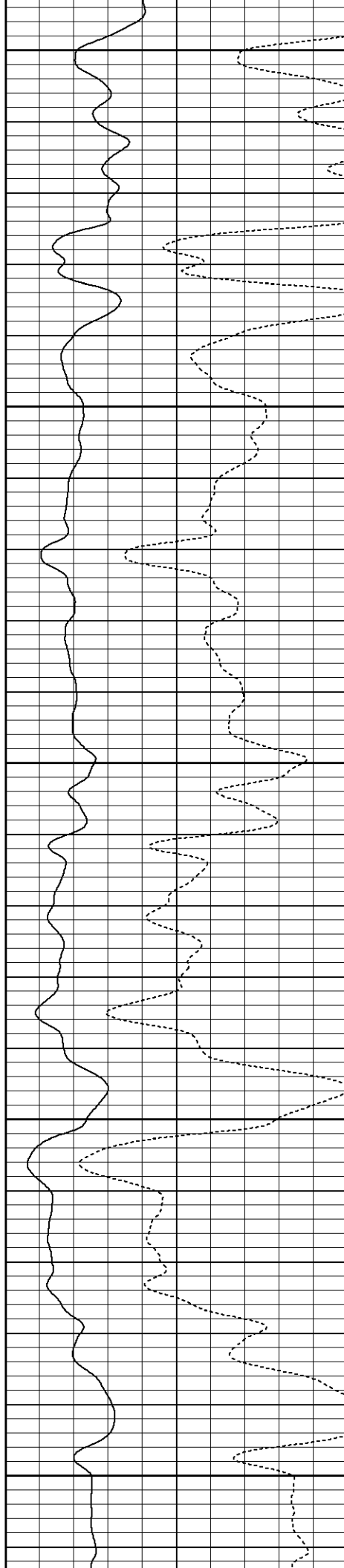
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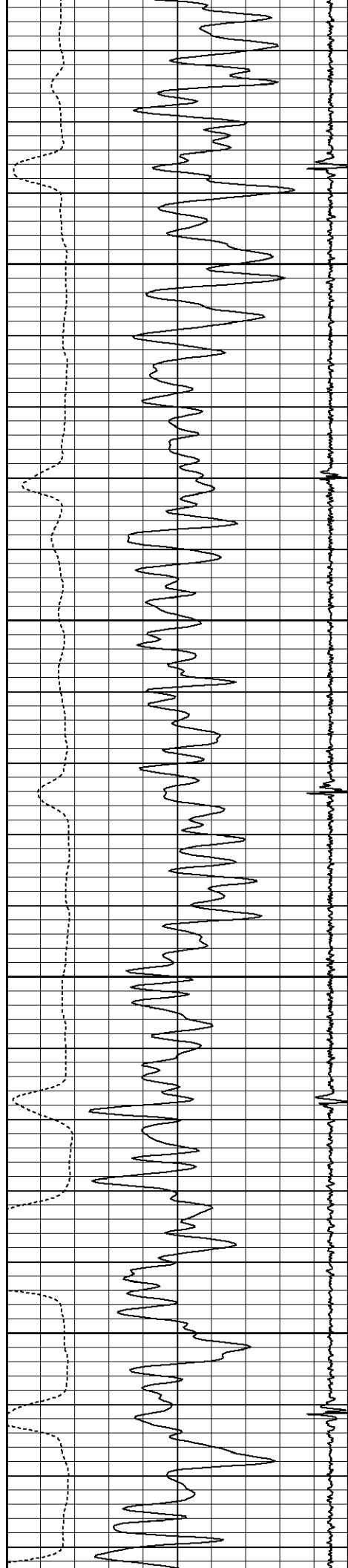
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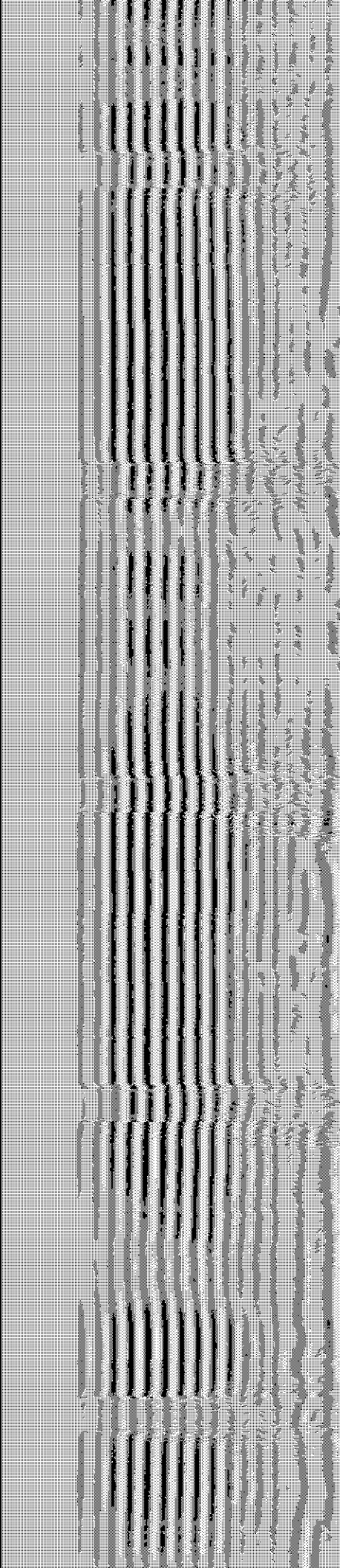
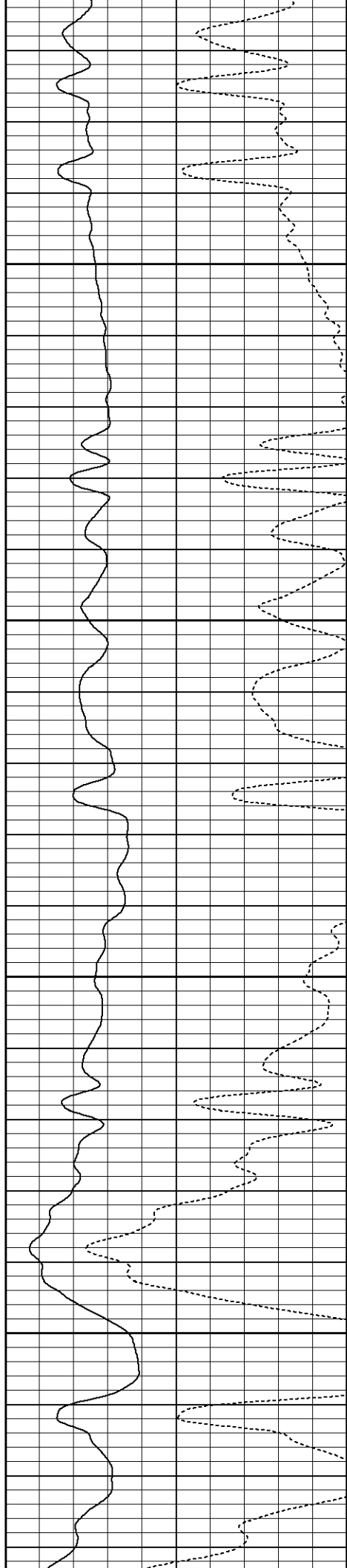


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3400





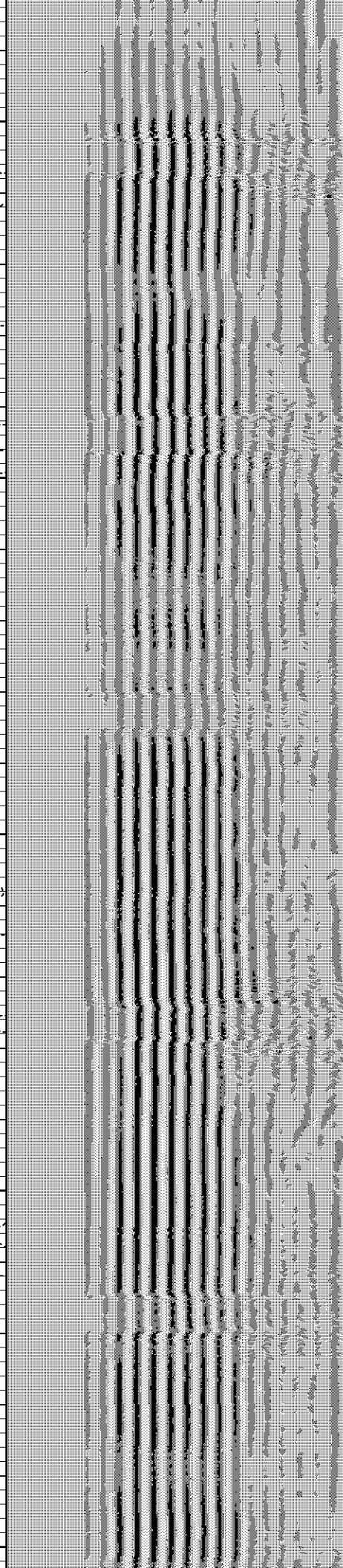
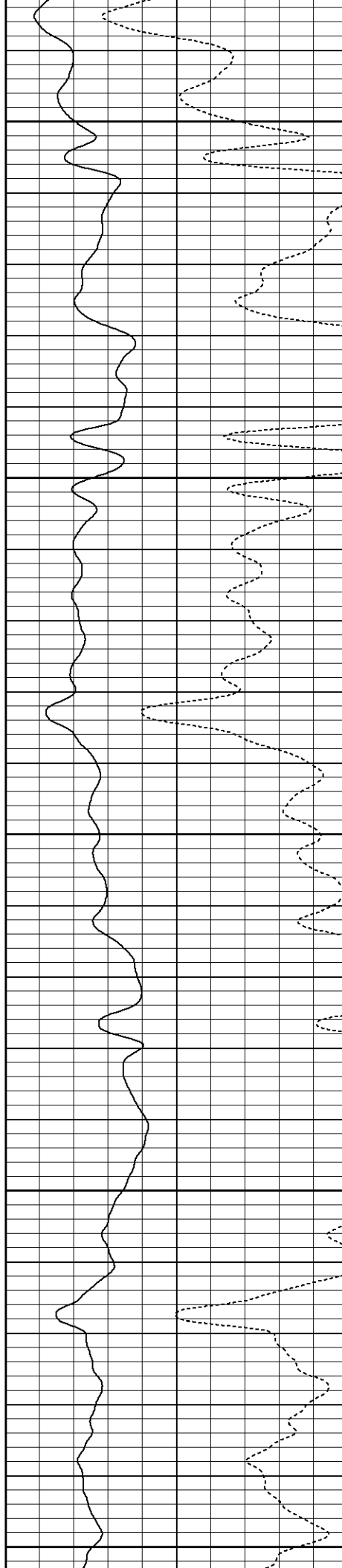
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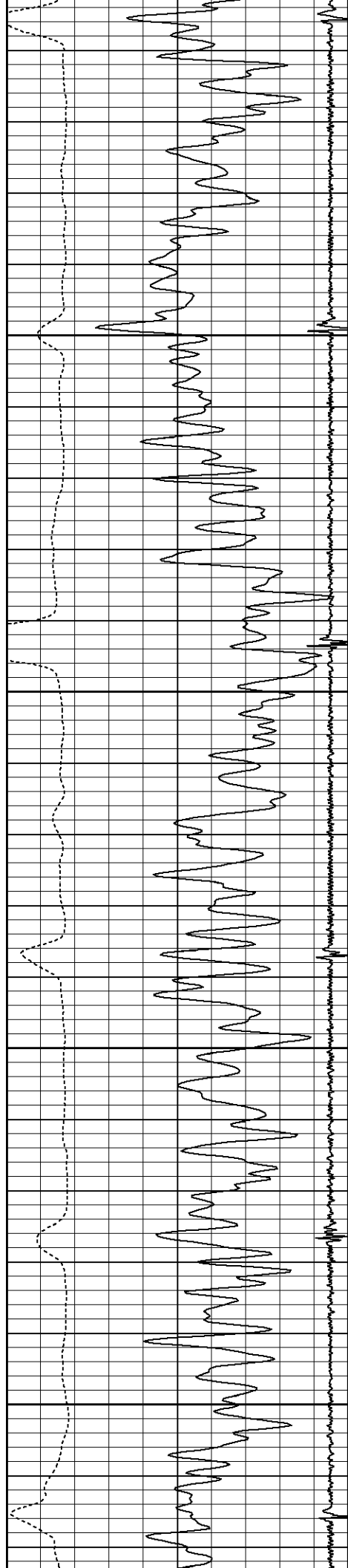
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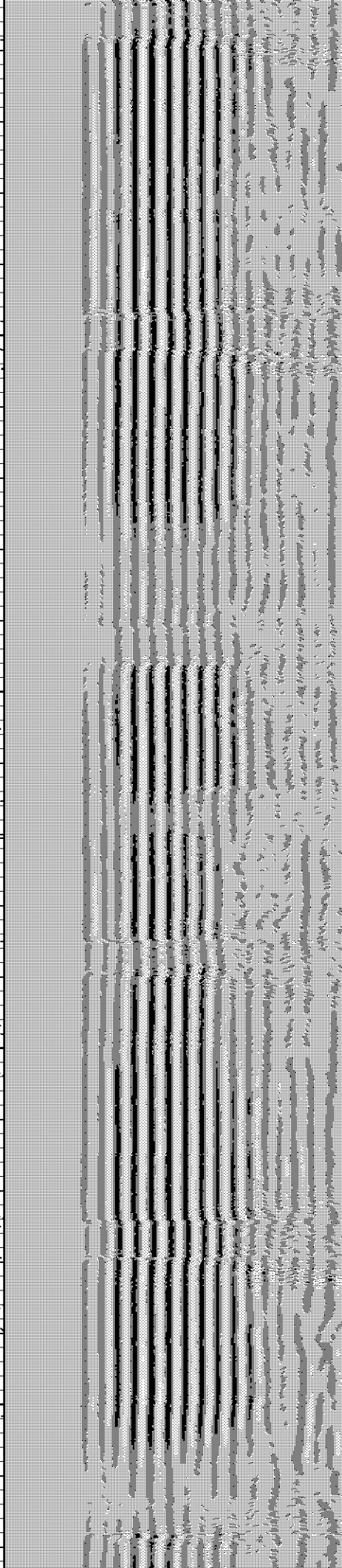
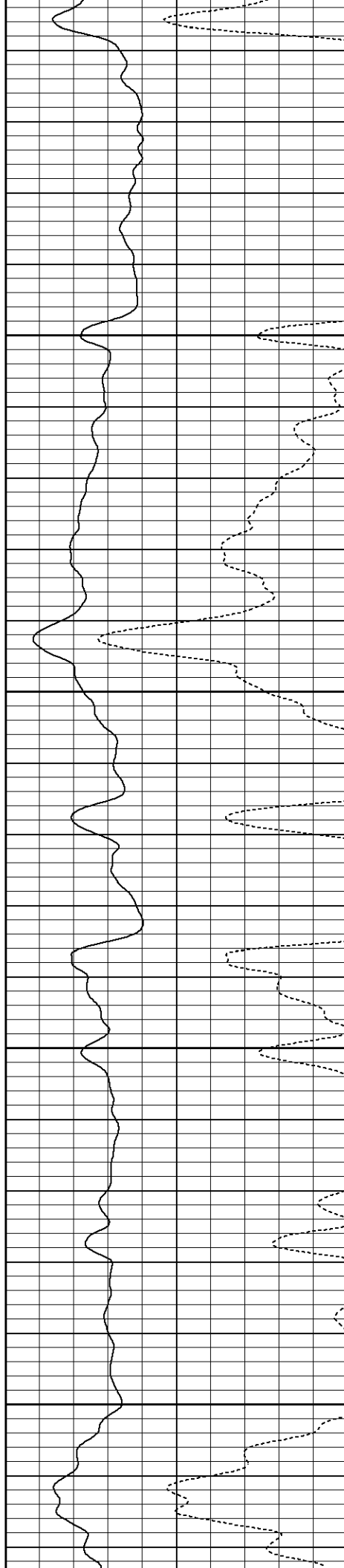


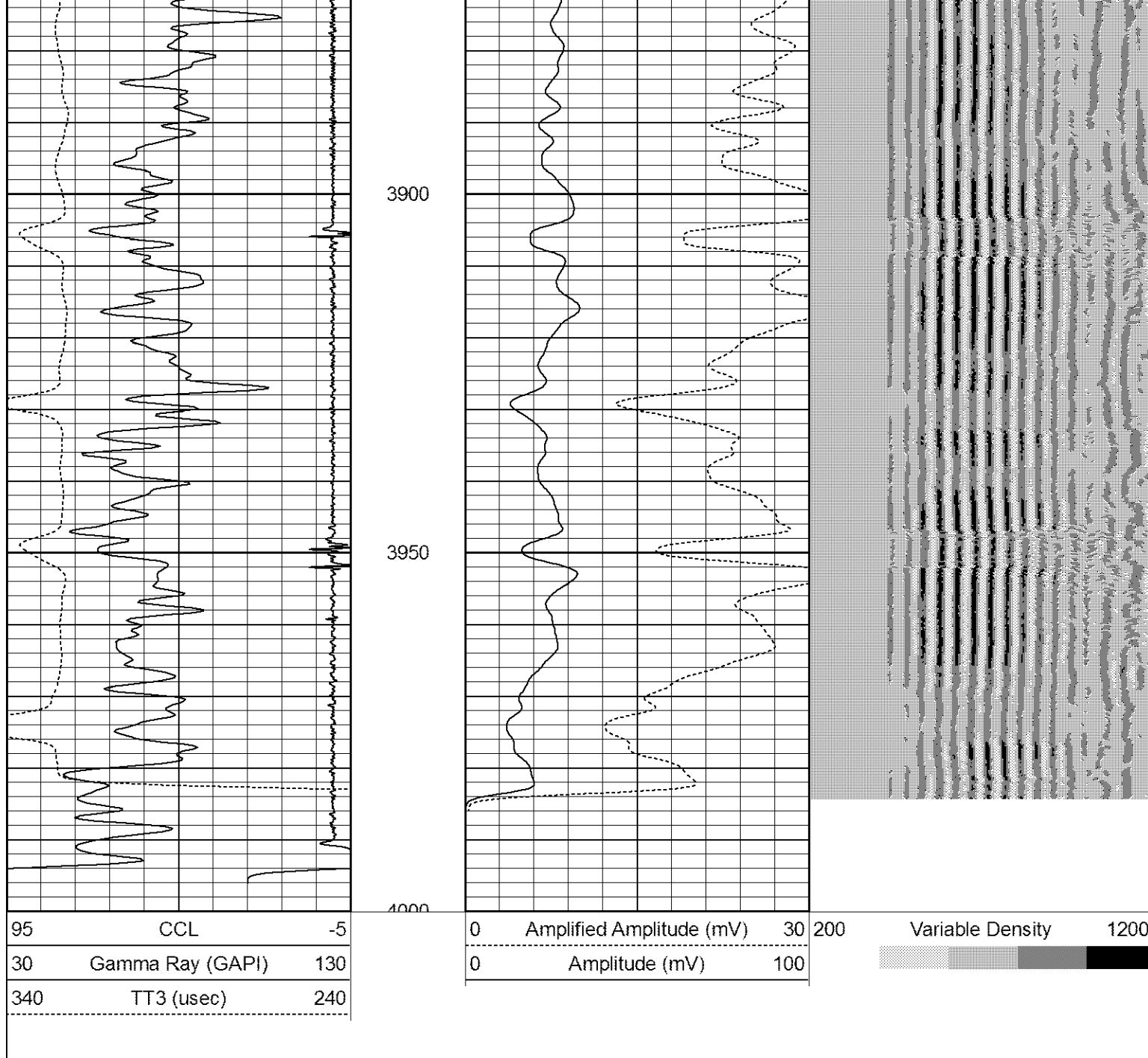
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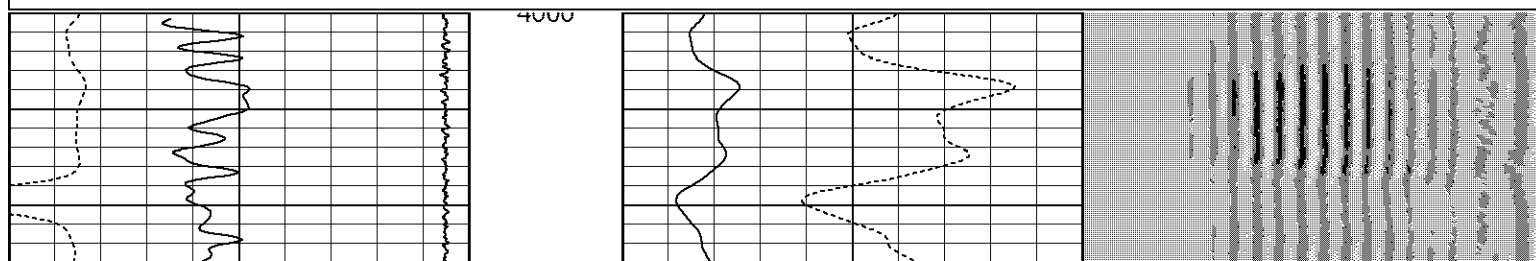
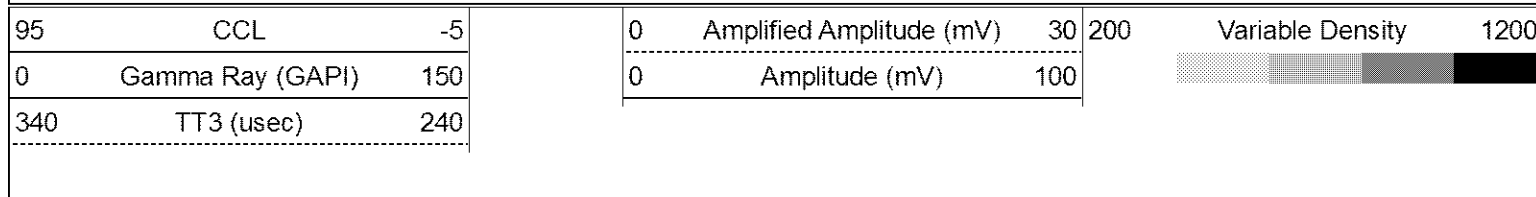
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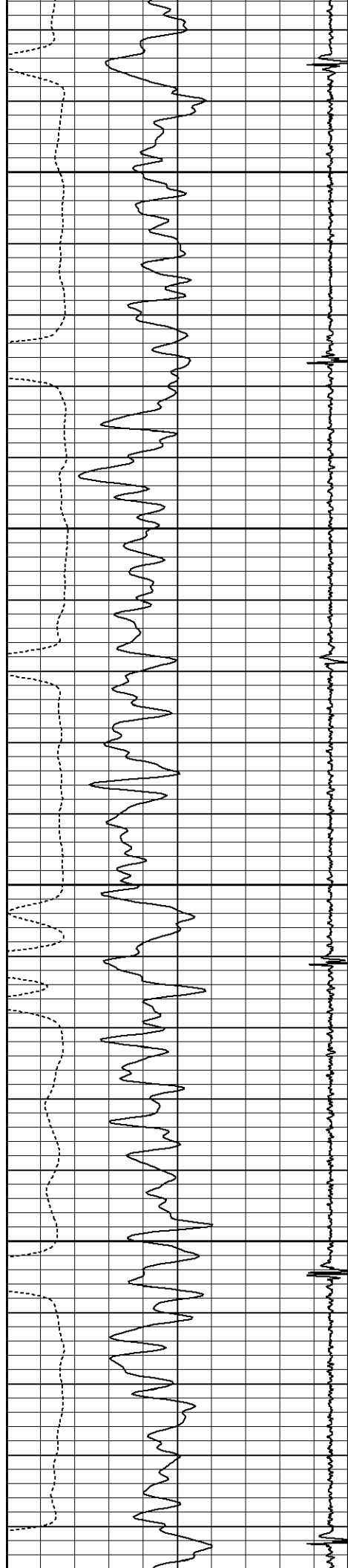
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Database File: cblayer usx ab35-68-1hn.db
 Dataset Pathname: pass2
 Presentation Format: noble en
 Dataset Creation: Wed Apr 25 09:42:55 2012 by Log SCH 120126
 Charted by: Depth in Feet scaled 1:240



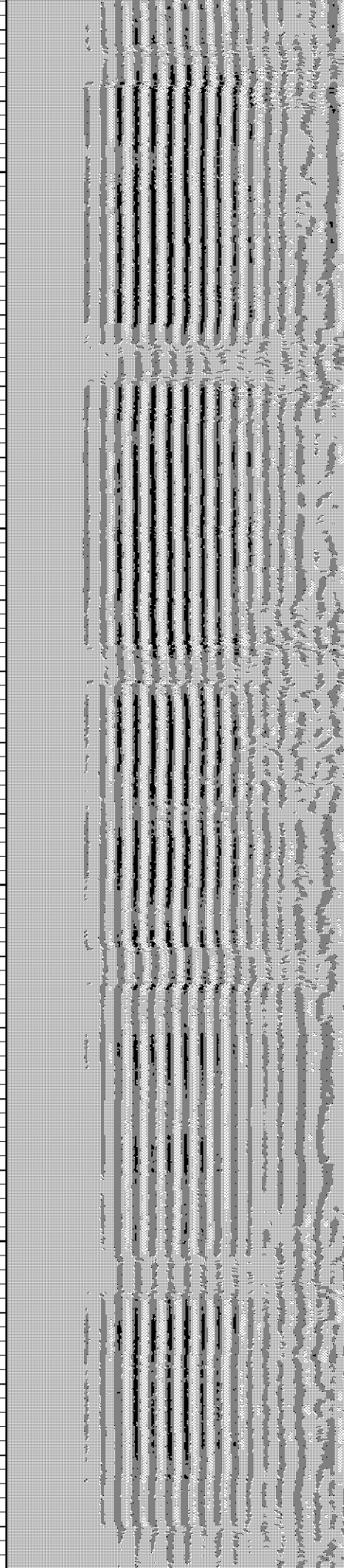
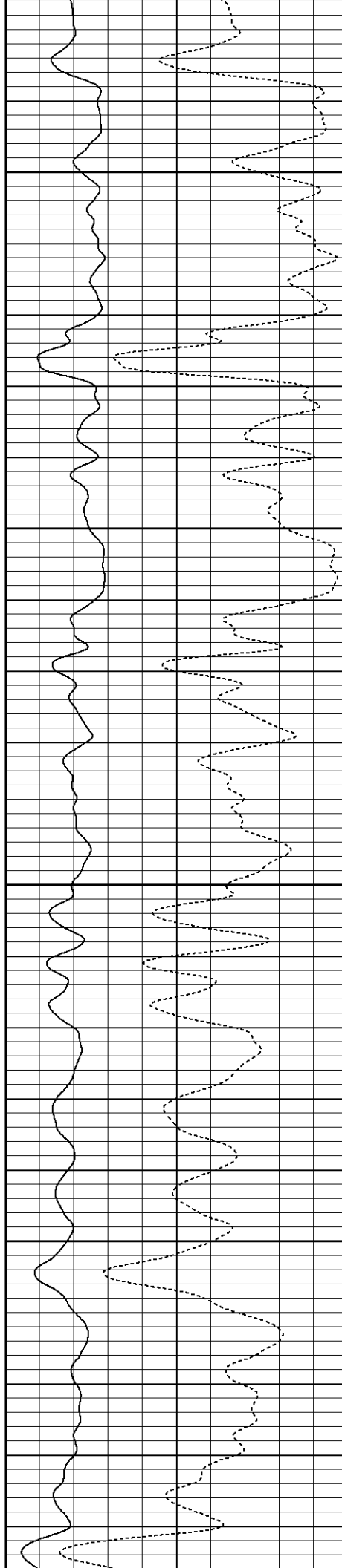


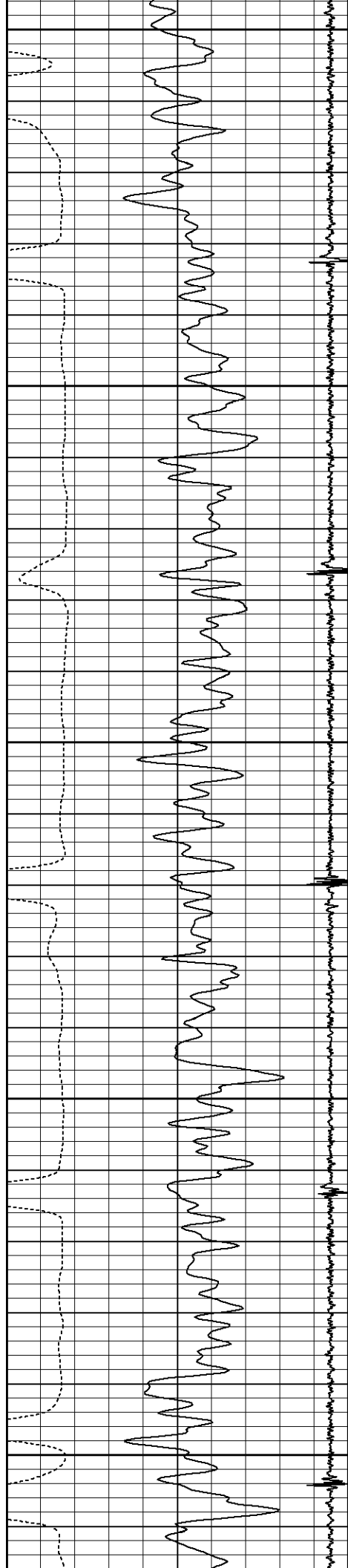
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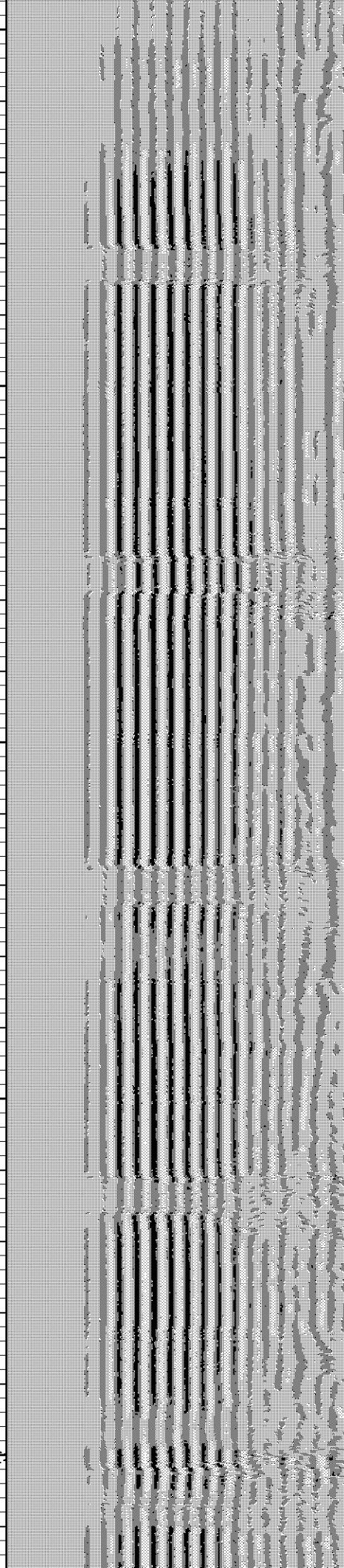
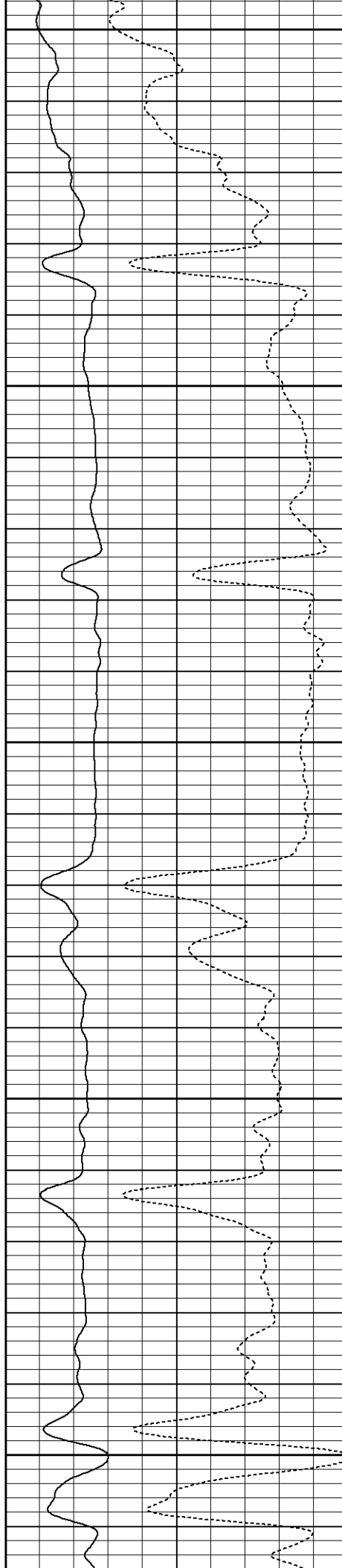
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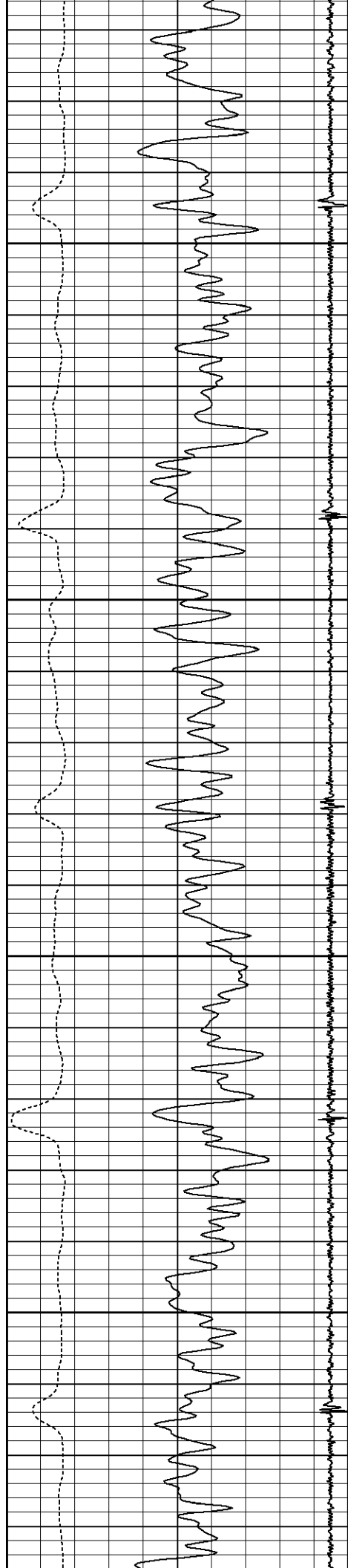
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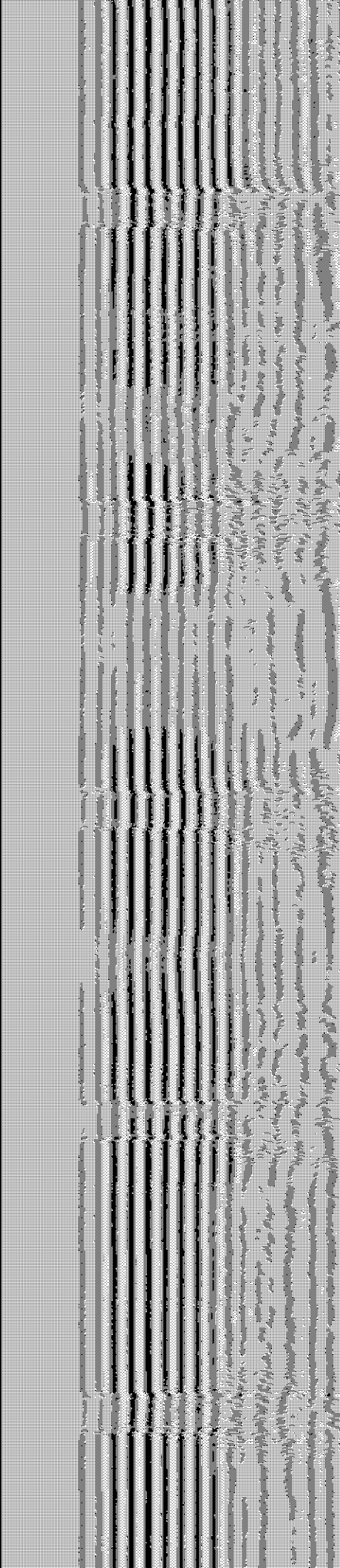
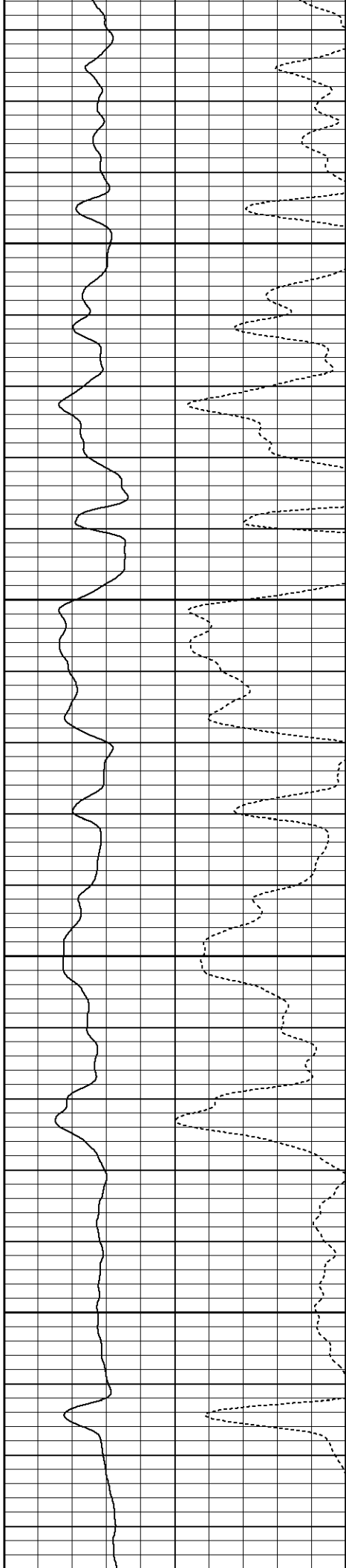


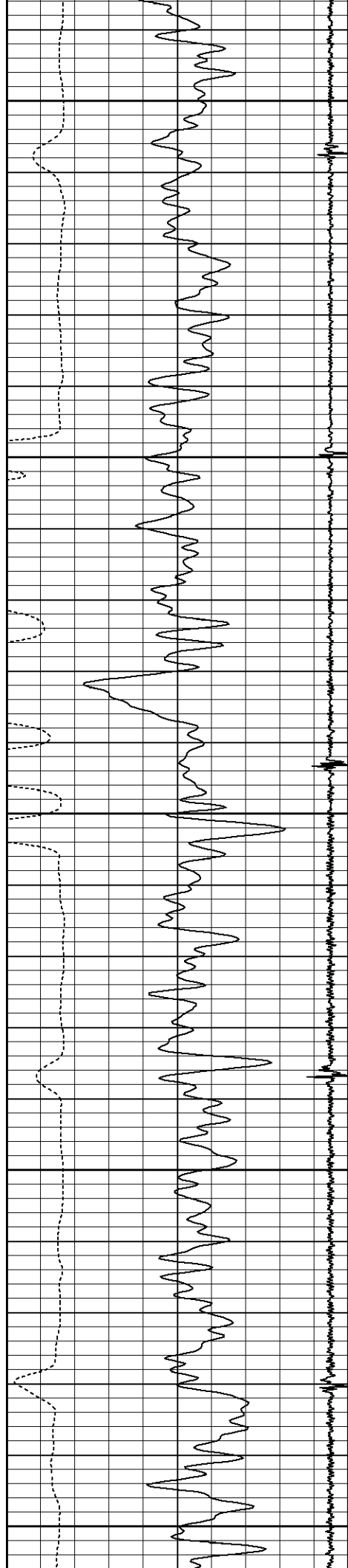
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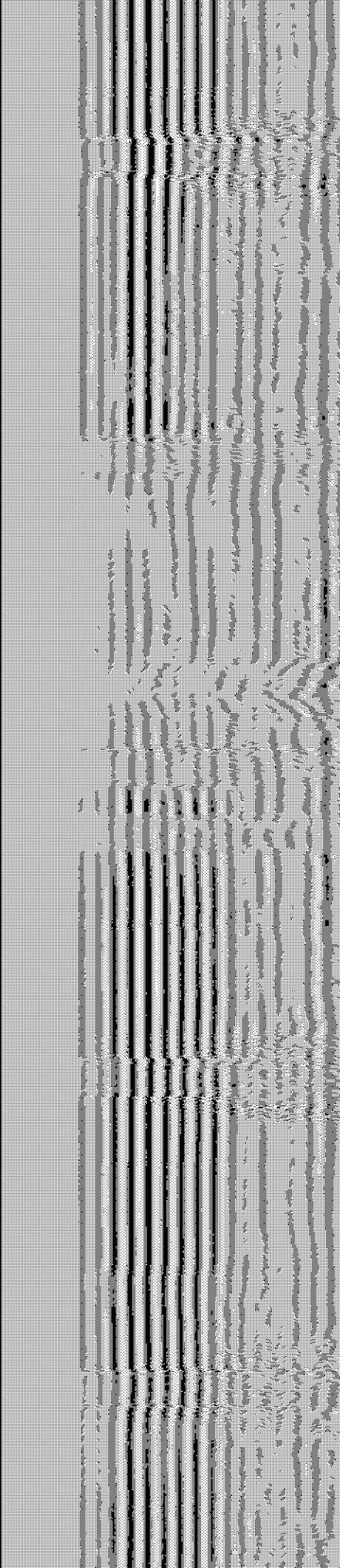
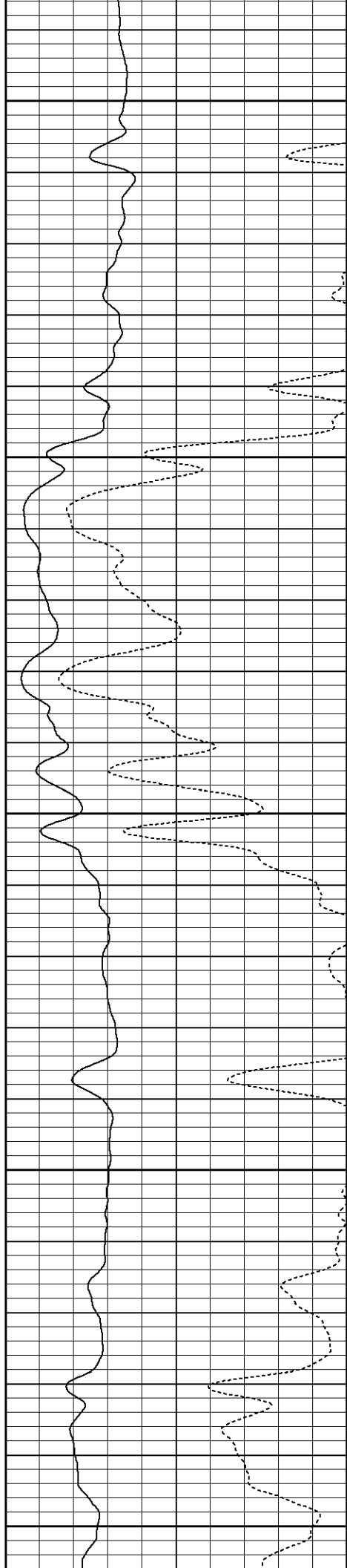
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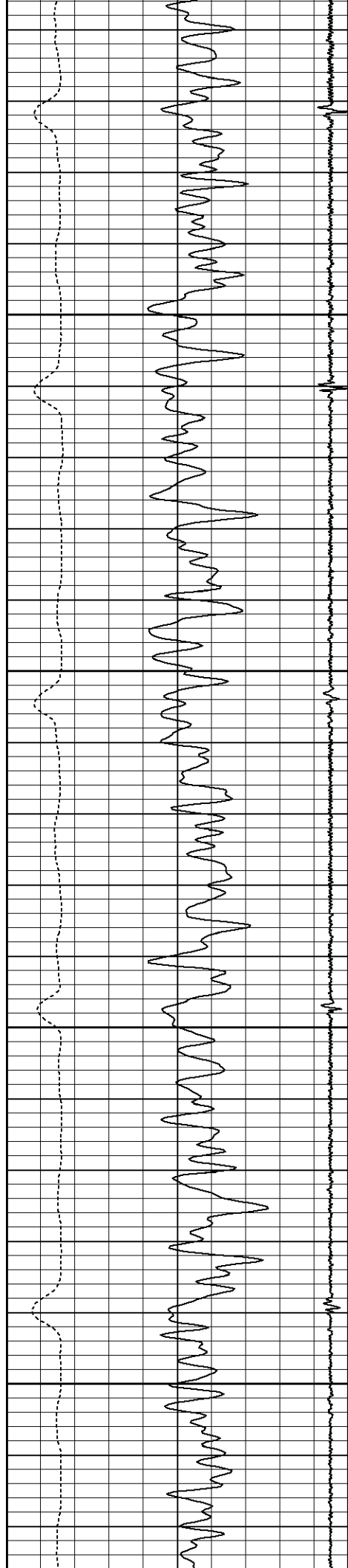
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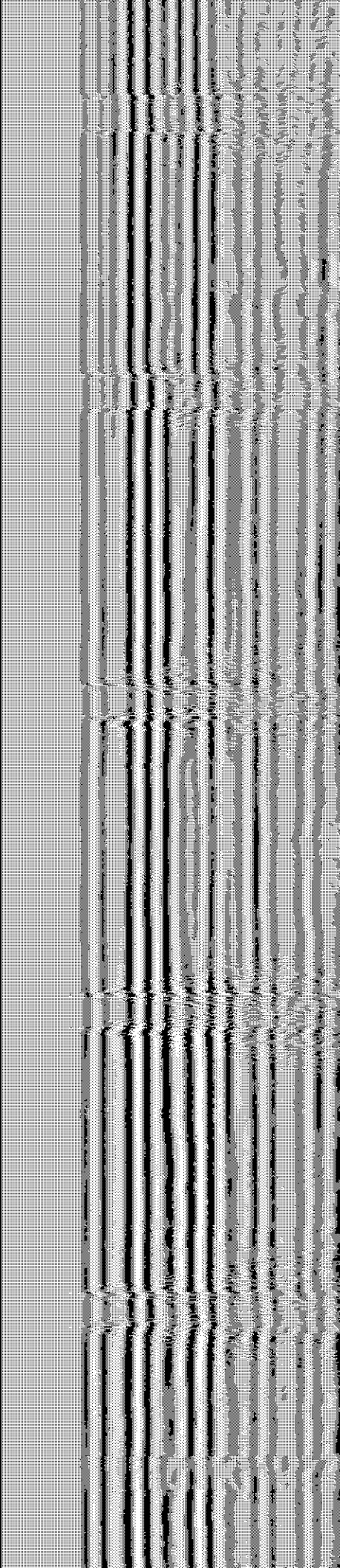
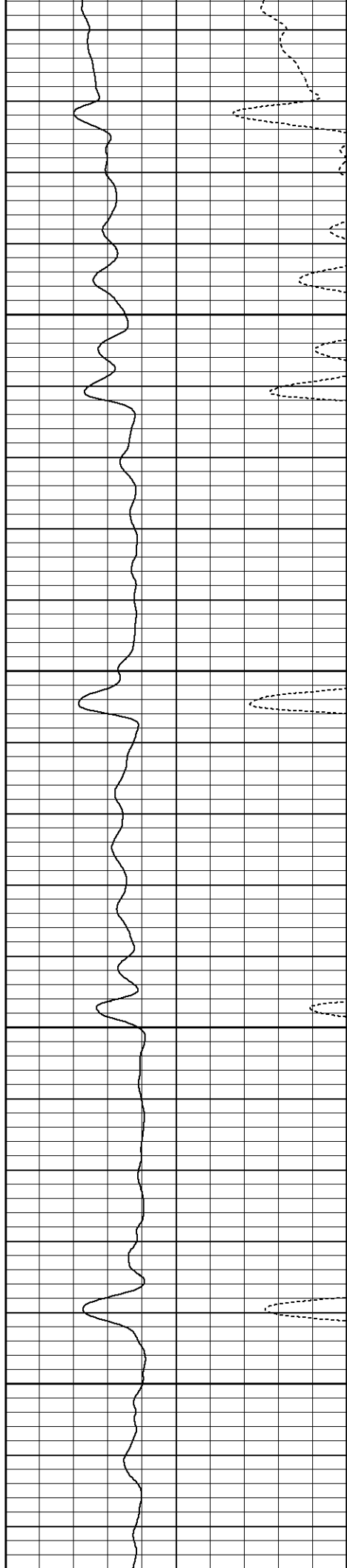


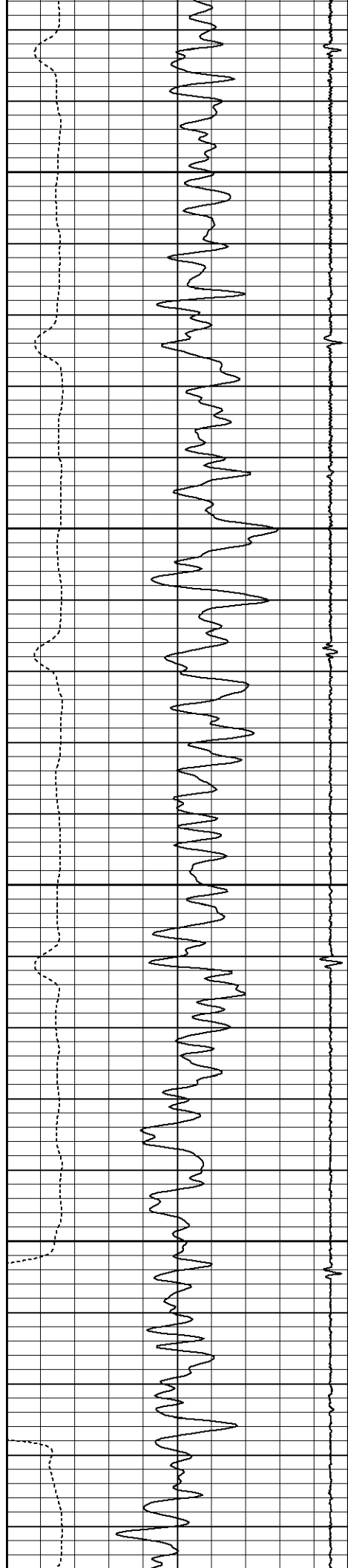
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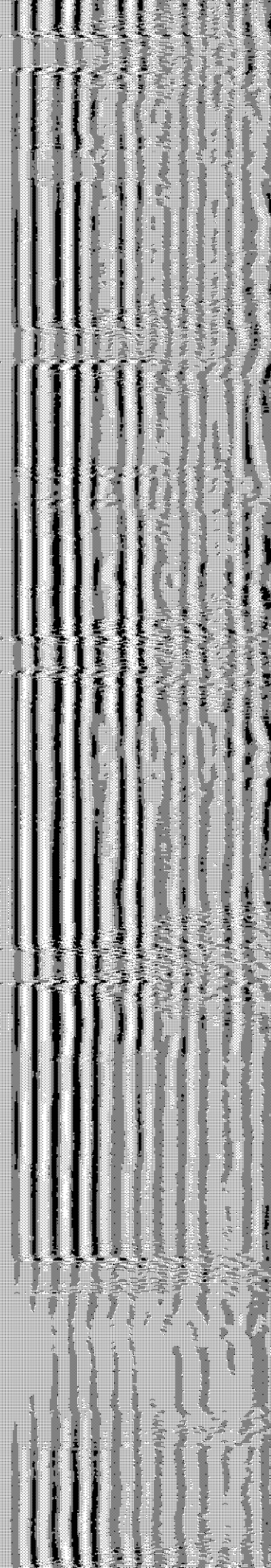
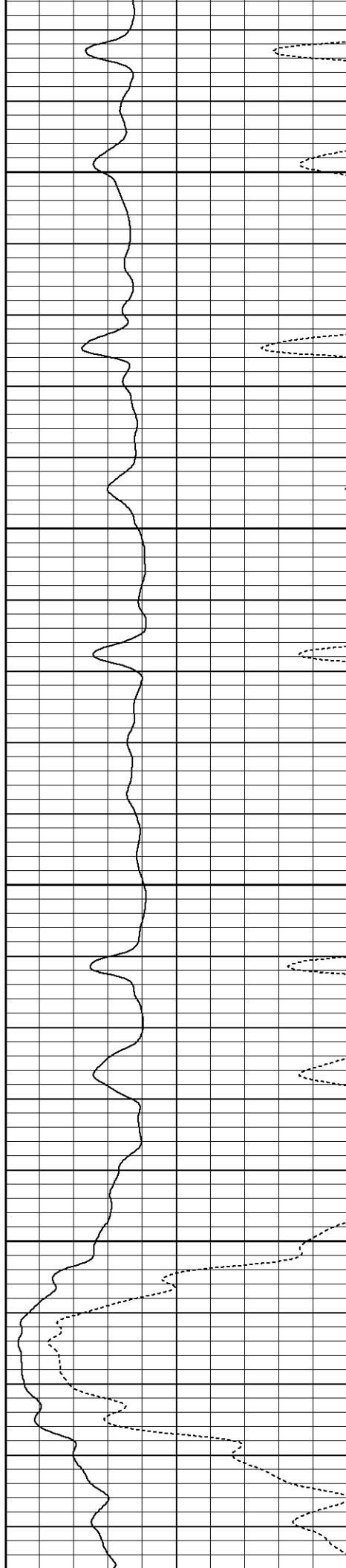


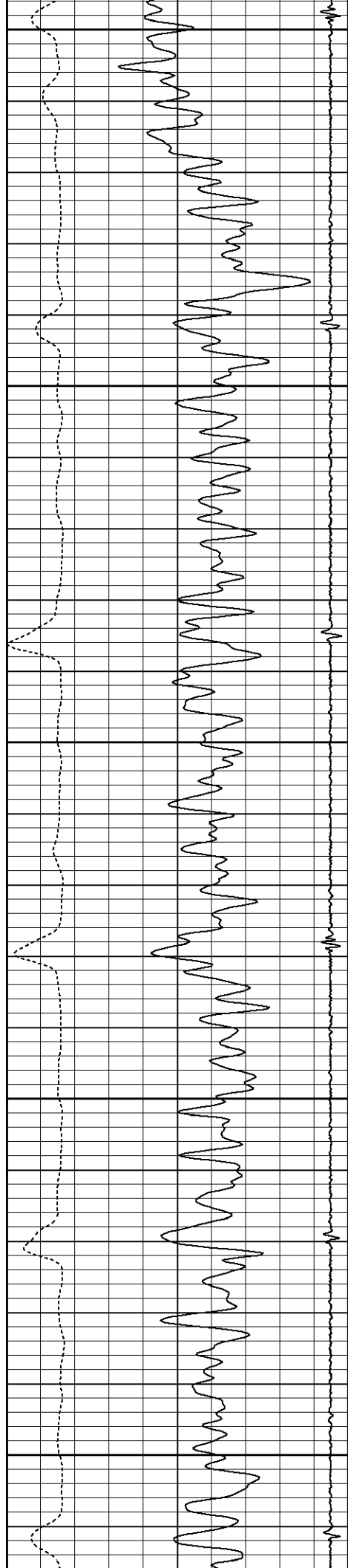
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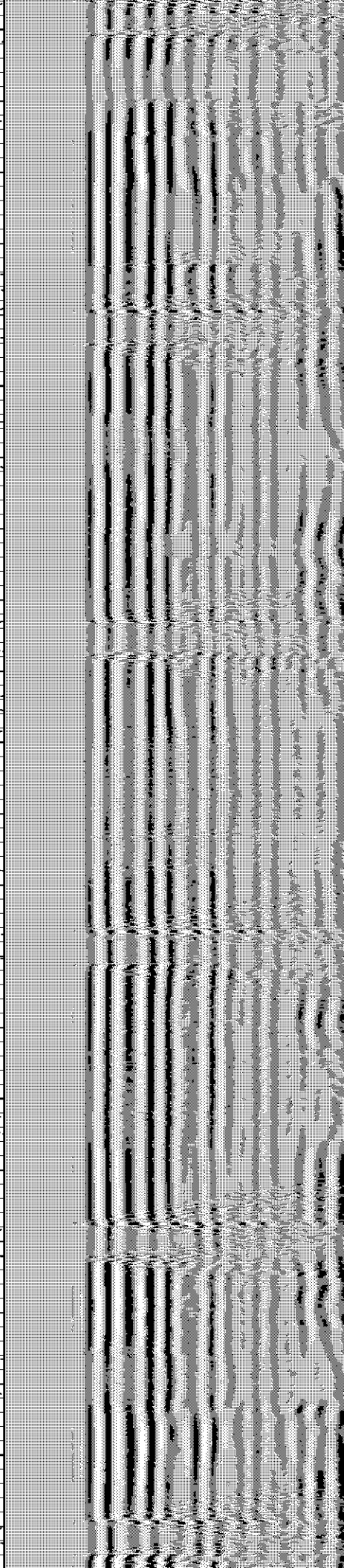
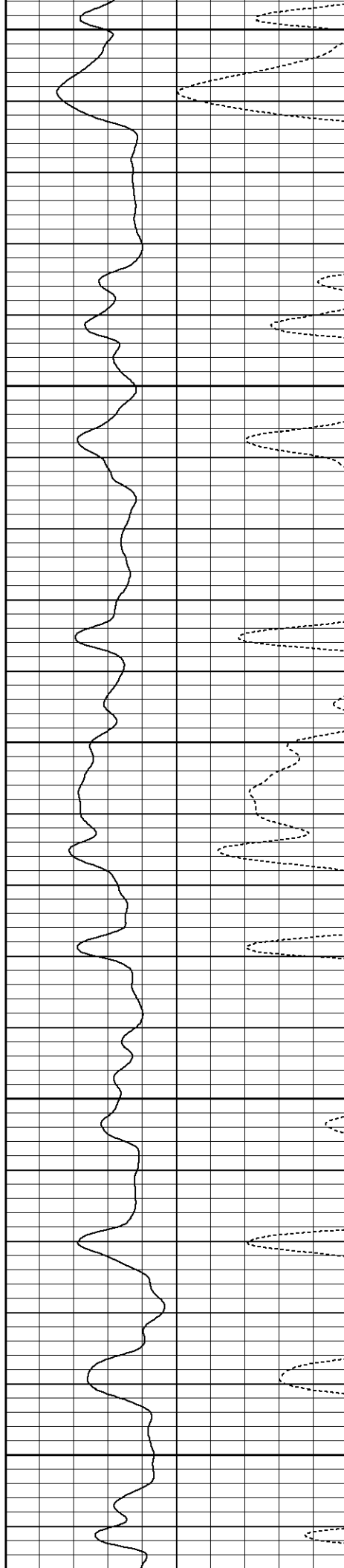
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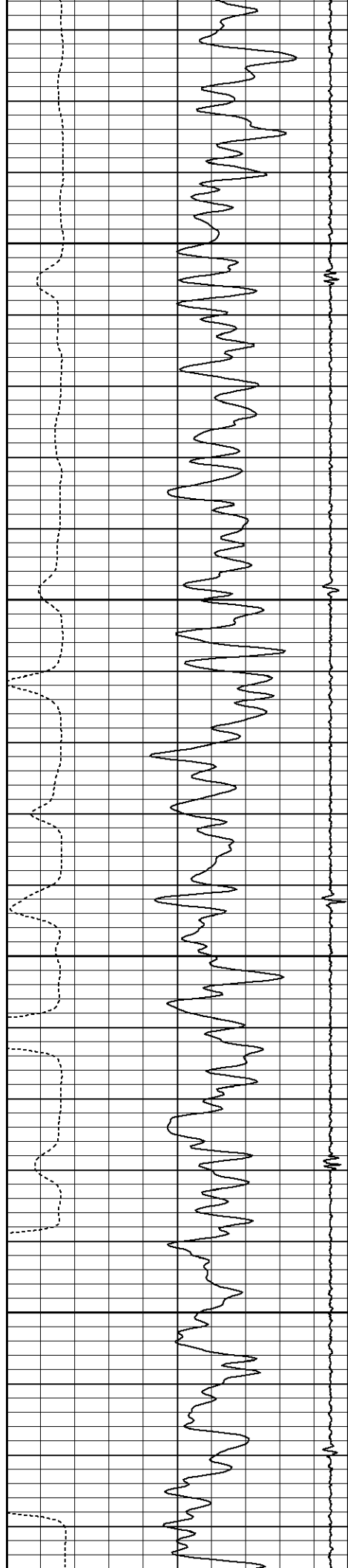
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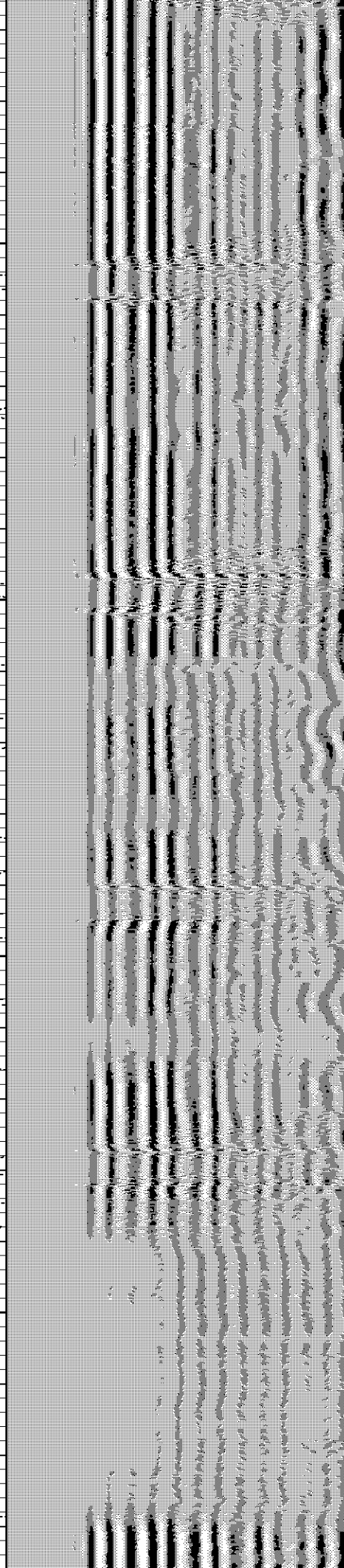
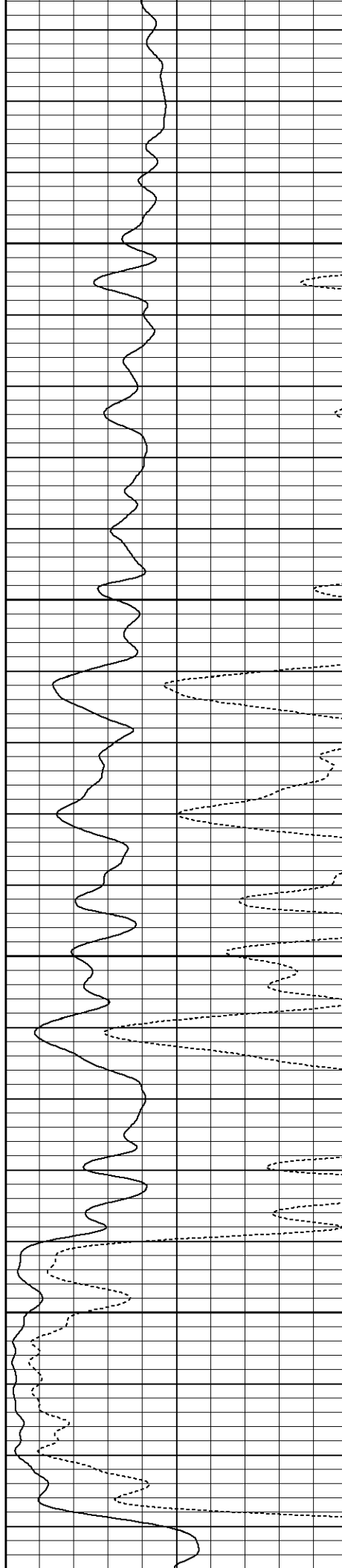


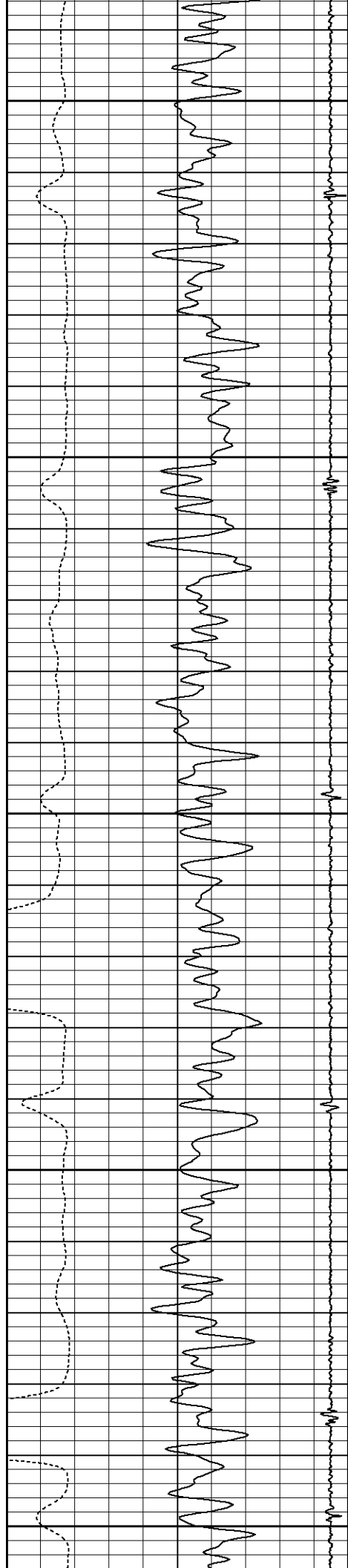
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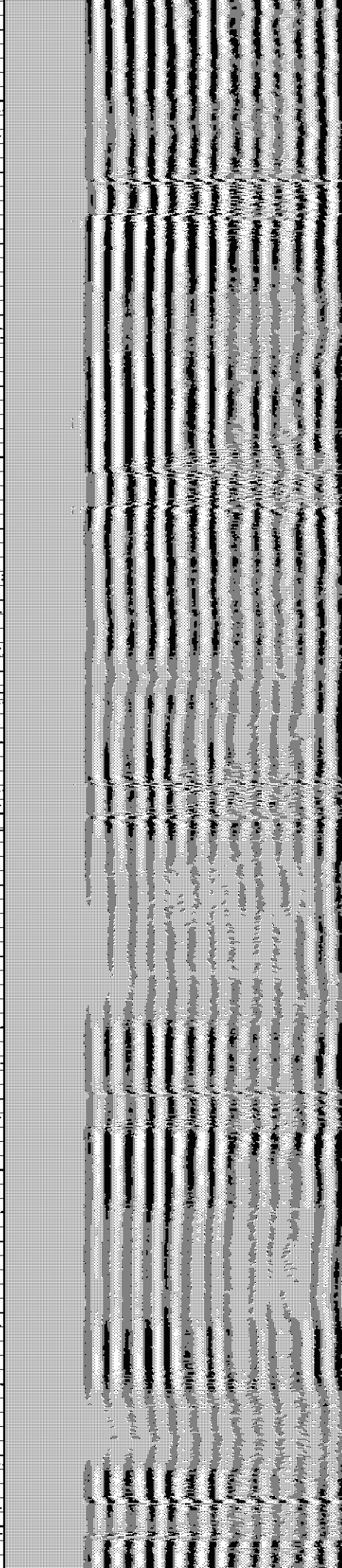
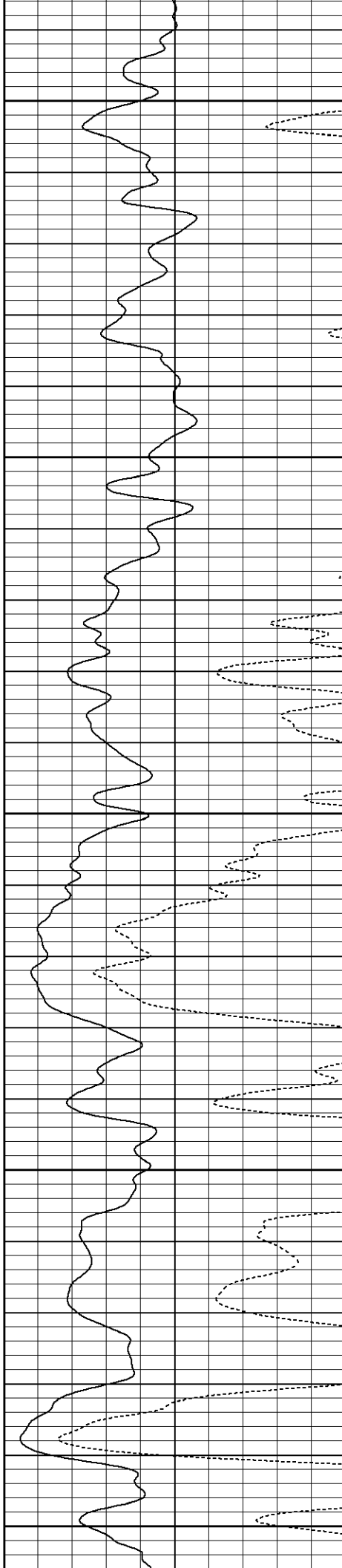
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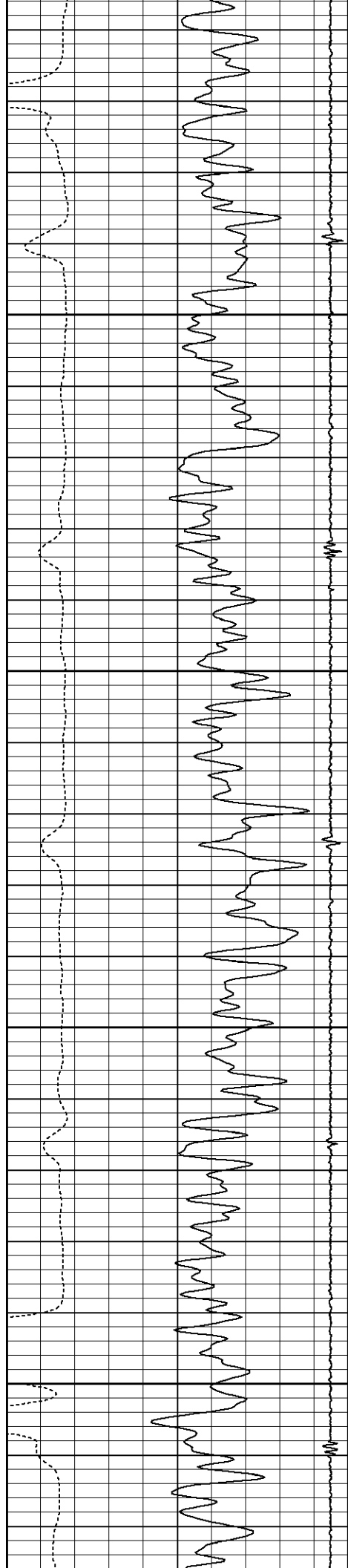
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5950

Flag Joint

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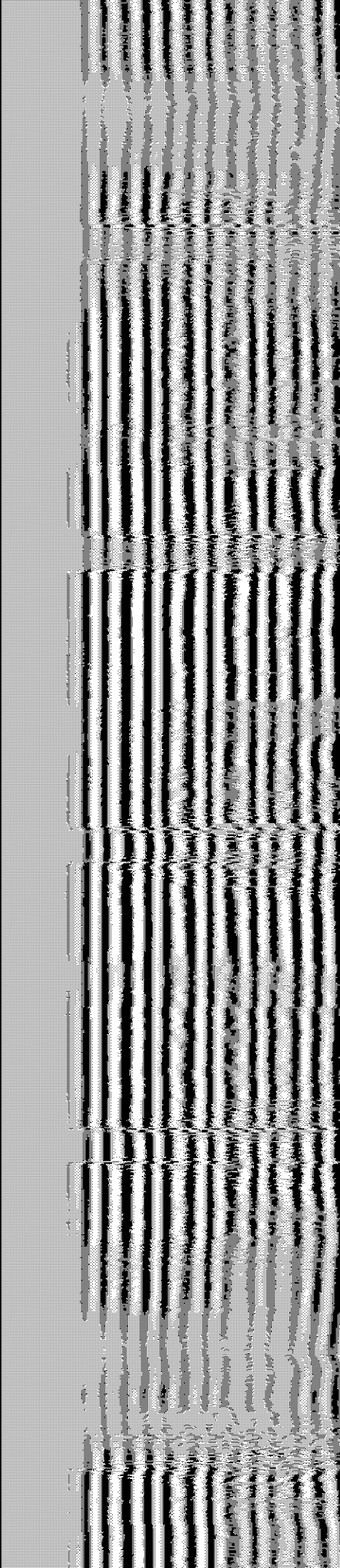
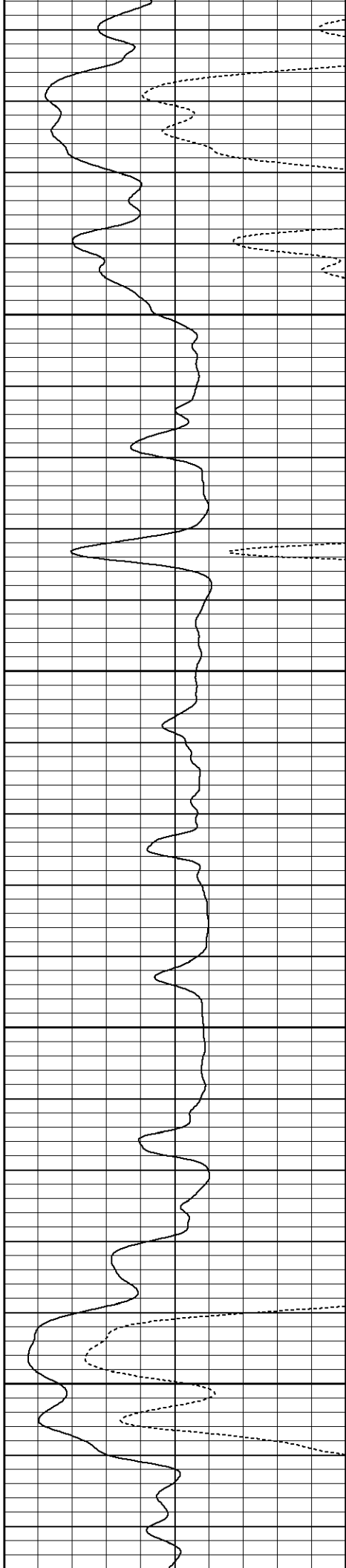


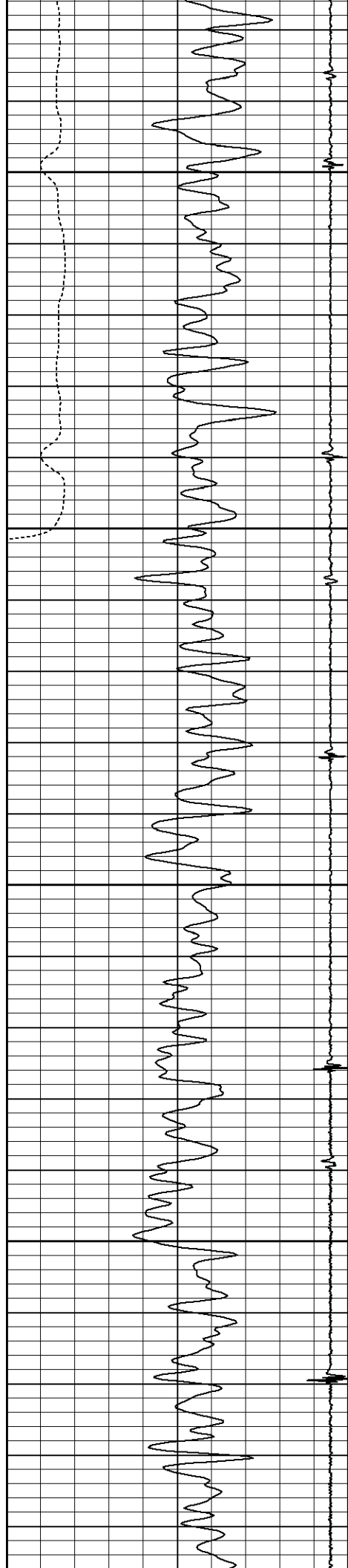
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6100

6150

6200



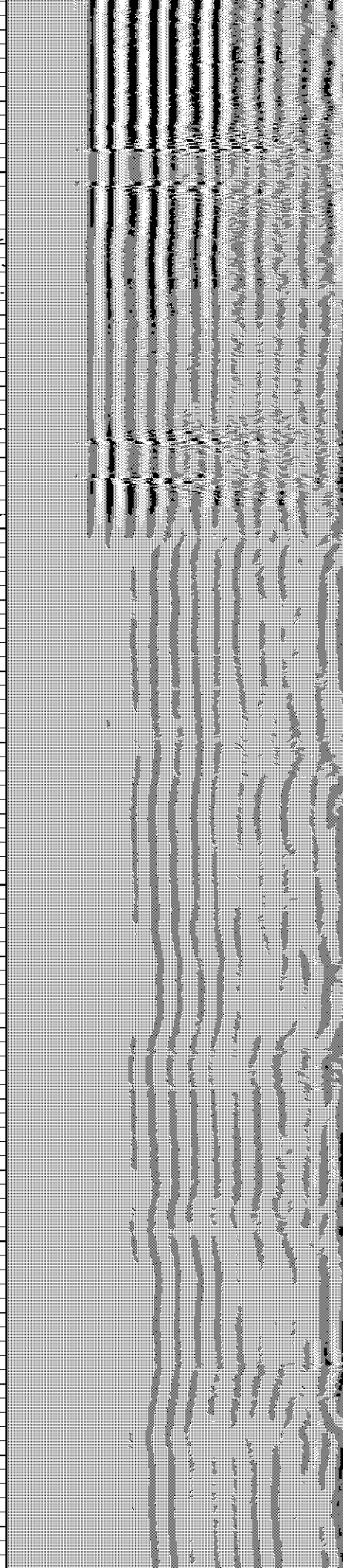
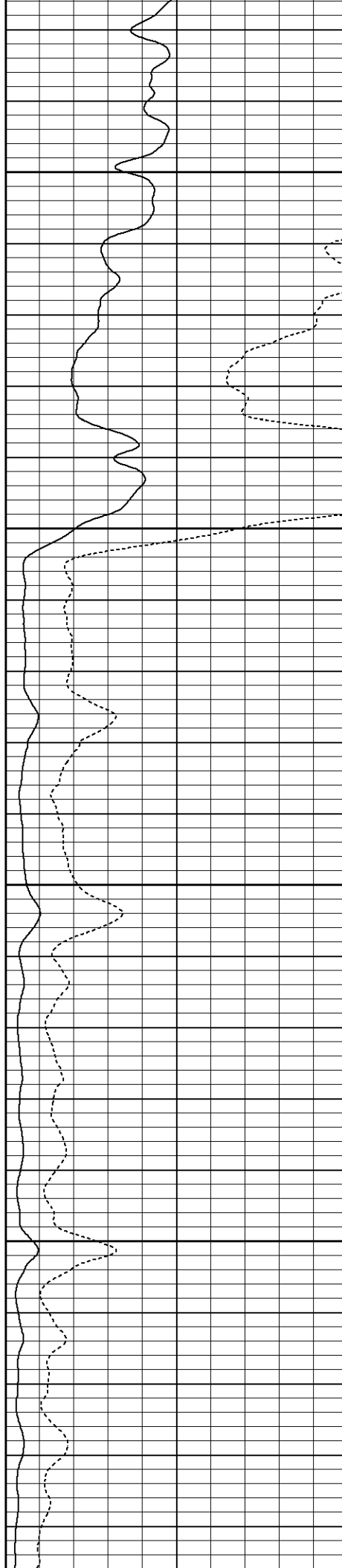


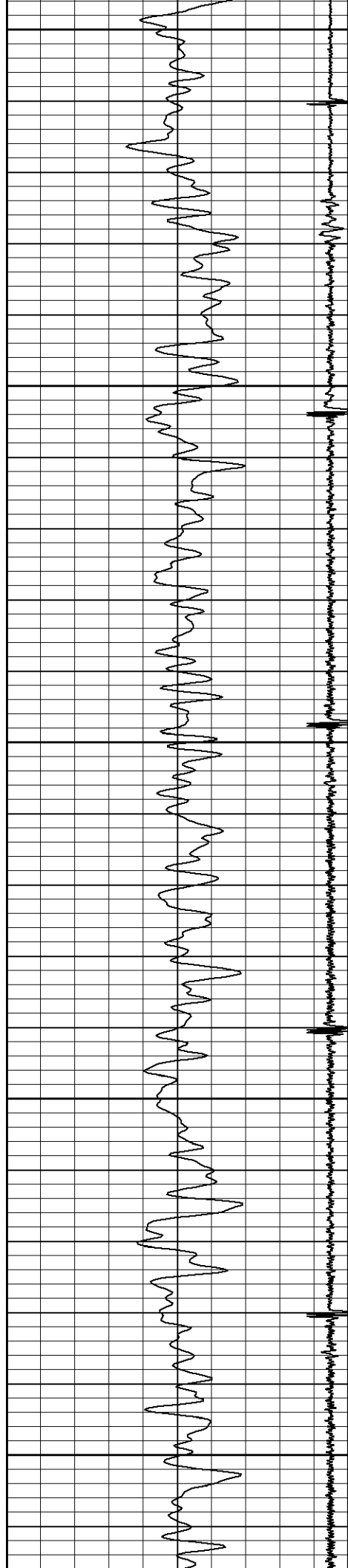
6250

6300

6350

6400





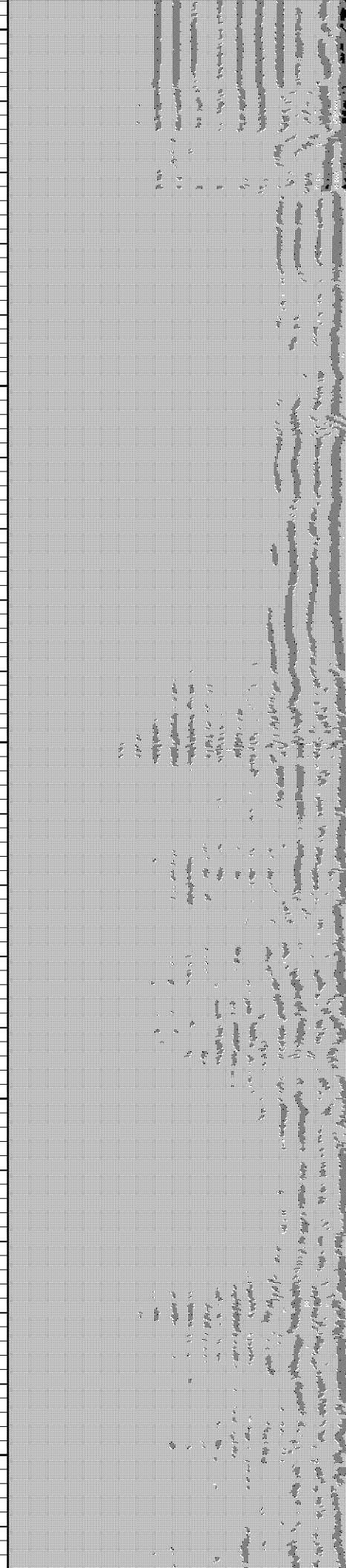
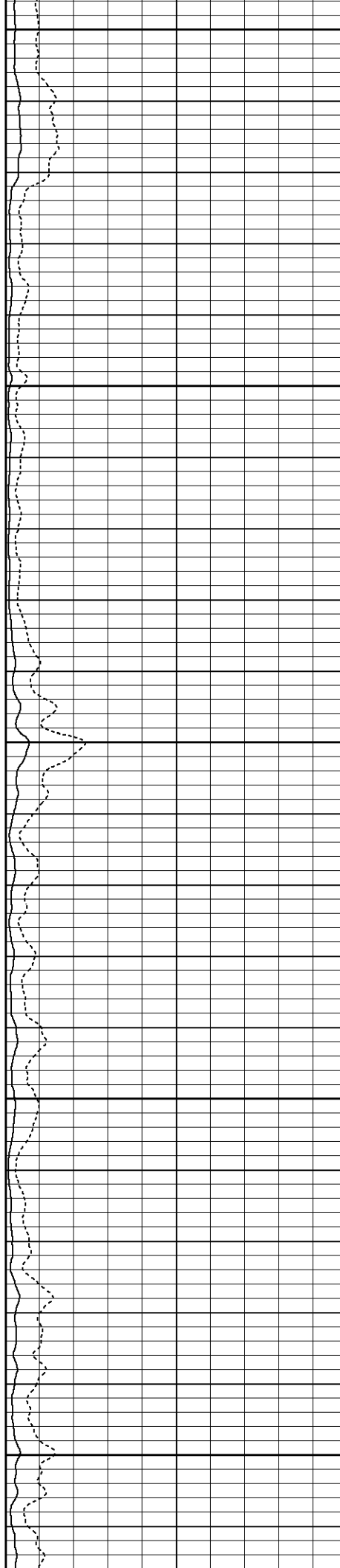
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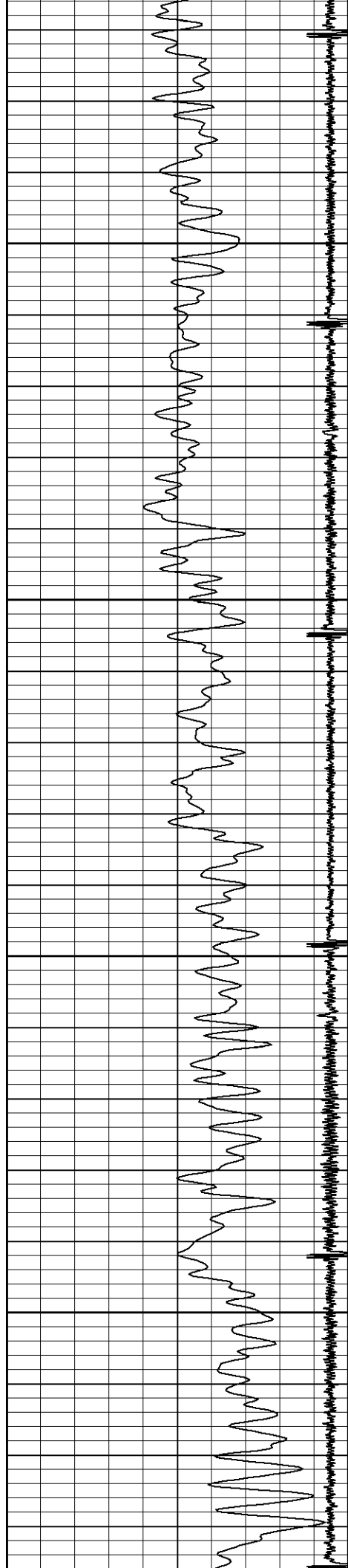
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6550

6600

6650



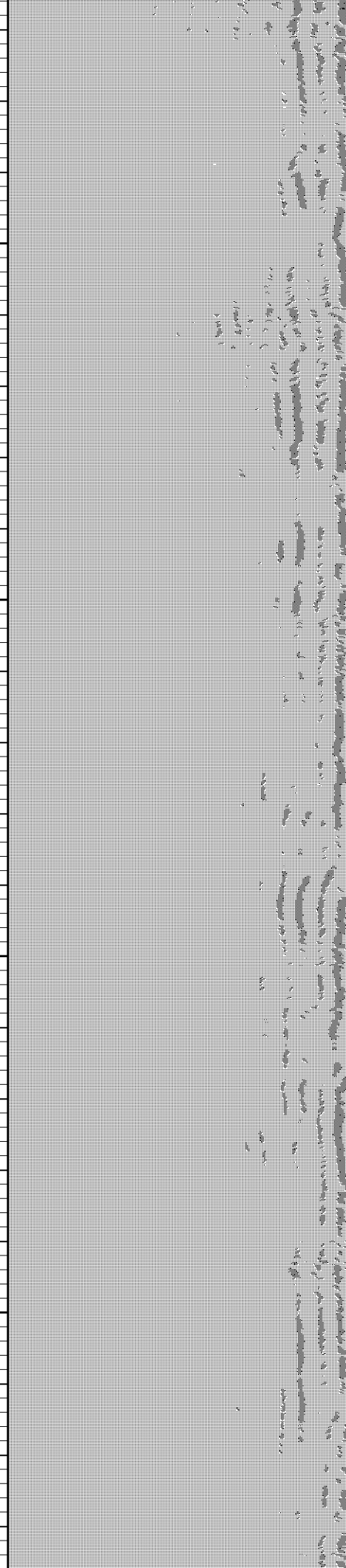
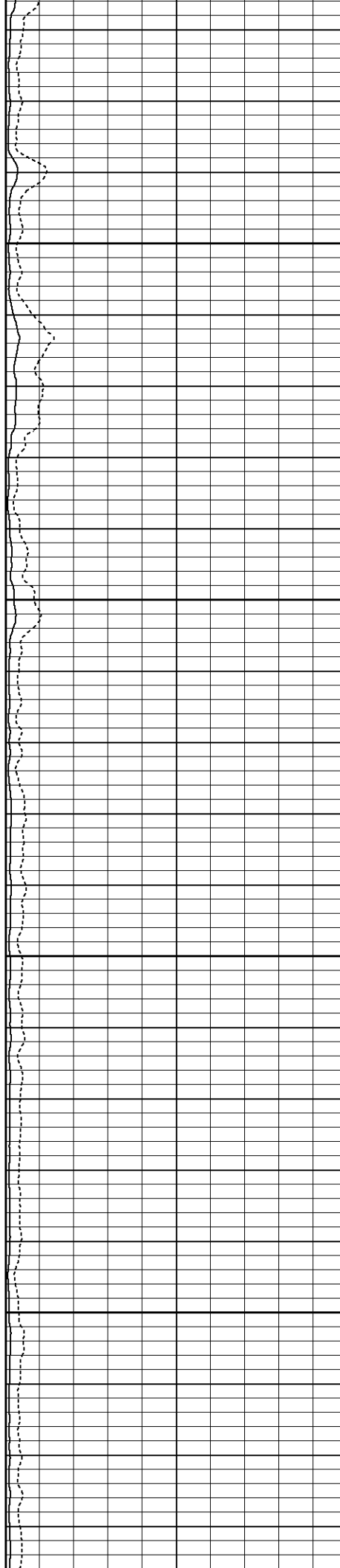


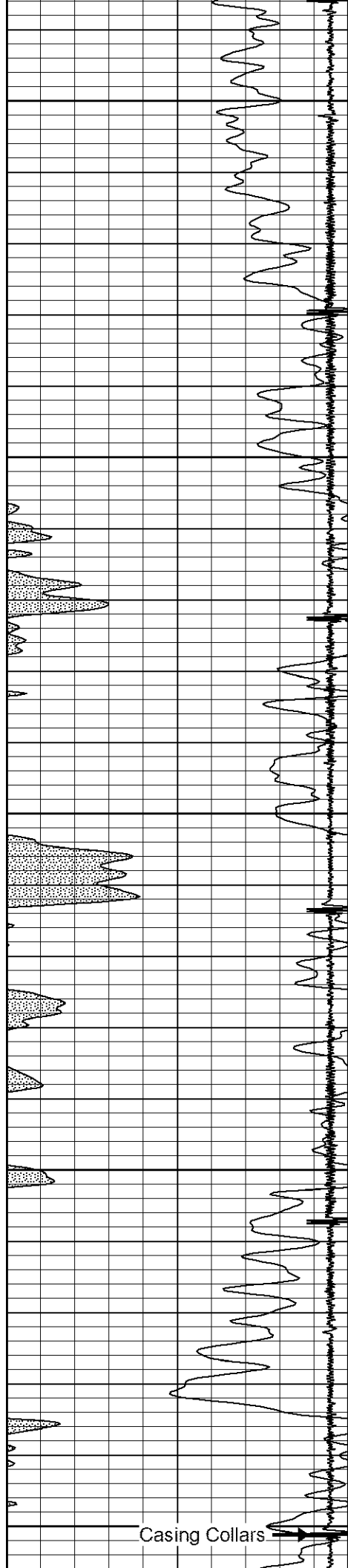
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6750

6800

6850





6900

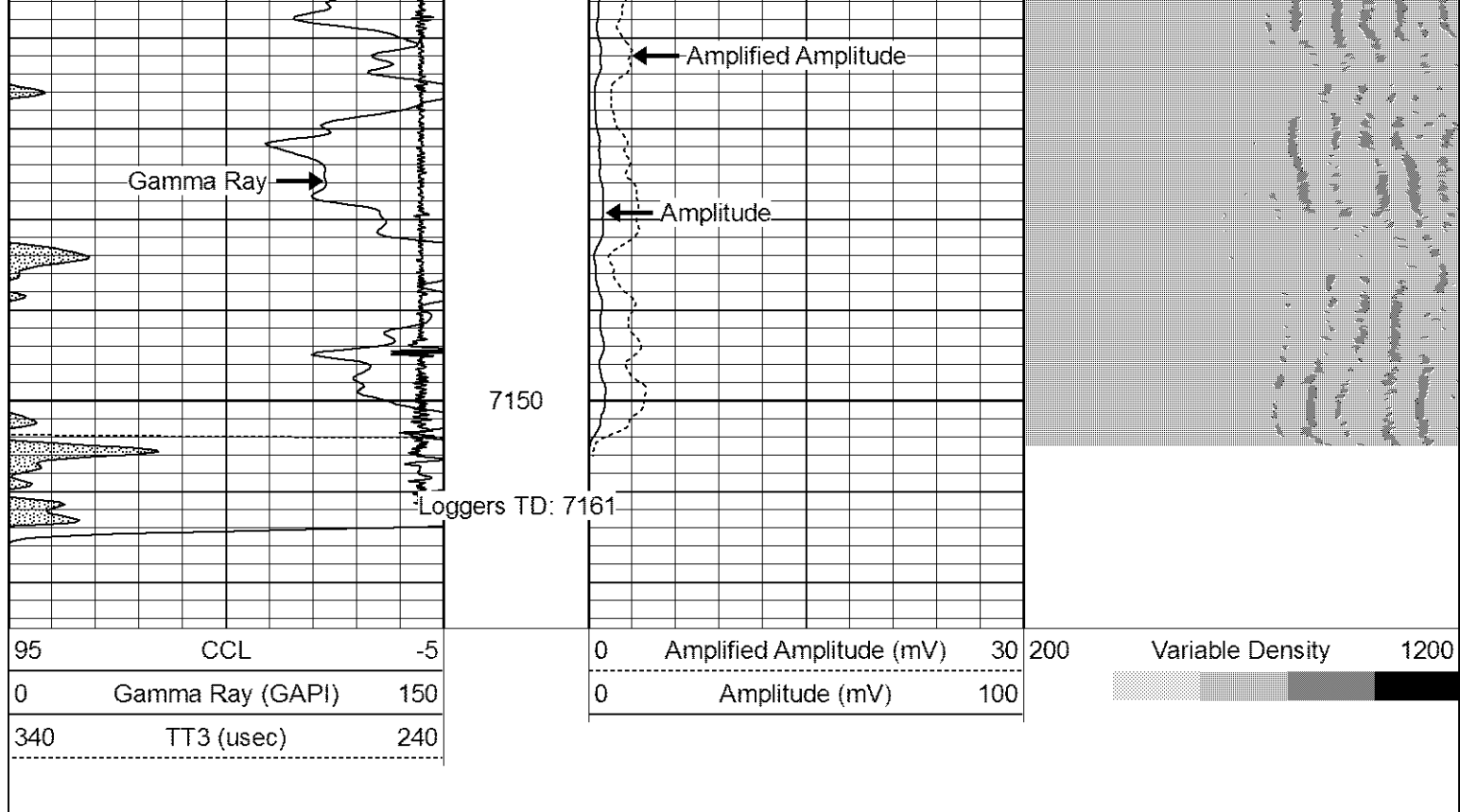
6950

7000

7050

7100

Casing Collars



Calibration Report						
Database File:		cblayer usx ab35-68-1hn.db				
Dataset Pathname:		pass4				
Dataset Creation:		Wed Apr 25 10:48:45 2012 by Log SCH 120126				
Gamma Ray Calibration Report						
Type / Serial:		Probe275dig / 101010				
SHOP CALIBRATION		Wed Apr 25 06:50:11 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 Apr 25 06:49:36 2012

Depth:	273.175	ft
Casing Diameter:	7	in

3' Spacing	5' Spacing
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Signal Zero:	0.7	0	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	0.0134033	0.0135498	V
Reading in Free Pipe:	2.49878	2.47039	V

Gain:	24.7307	25.3029
Offset:	0.368526	-0.342849