

**GAMMA RAY C.C.L.  
CEMENT BOND V.D.L.**

Company		CRIMSON EXPLORATION	
Well		DAHLINGER E UNIT #1	
Field		BUGLER	
County		ADAMS	
State		COLORADO	
Location:		API # : 05-001-06811	
SEC 4		TWP 2S	
RGE 66W		Elevation 5,151'	
Permanent Datum		GL	
Log Measured From		KB	
Drilling Measured From		KB	
Date		12-JUL-2016	
Run Number		ONE	
Depth Driller		8.27'	
Depth Logger		8.18'	
Bottom Logged Interval		8.180'	
Top Log Interval		SURFACE	
Open Hole Size		7-7/8"	
Type Fluid		WATER	
Density / Viscosity		8.34#	
Max. Recorded Temp.		228°F	
Estimated Cement Top		894'	
Time Well Ready		8:00AM	
Time Logger on Bottom		8:55AM	
Equipment Number		346043	
Location		STERLING.CO	
Recorded By		LEROY HOBBS	
Witnessed By		ROY WILLIAMS	
Run Number		Borehole Record	
Bit		From	
To		Size	
Weight		From	
To		Tubing Record	
Casing Record		Size	
Surface String		8-5/8"	
Prot. String		24# / J-55	
Production String		5-11/2"	
Liner		14# / K-55	

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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

LOG RAN OFF A 12' K.B.

THANK YOU FOR USING KLX ENERGY SERVICES.  
1-970-580-5940

Calibration Report

Database File: crimson.db  
Dataset Pathname: pass4  
Dataset Creation: Tue Jul 12 08:20:31 2016 by Log 7.0 B1

# Gamma Ray Calibration Report

Serial Number:	080222	
Tool Model:	Probe	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

## Segmented Cement Bond Log Calibration Report

Serial Number:	080430	
Tool Model:	Digital	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	271.042	ft

Master Calibration, performed Tue Jul 12 08:20:29 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	0.894	0.700	71.921	79.947	0.477
CAL						
5'	0.003	0.896	0.700	71.921	79.768	0.472
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

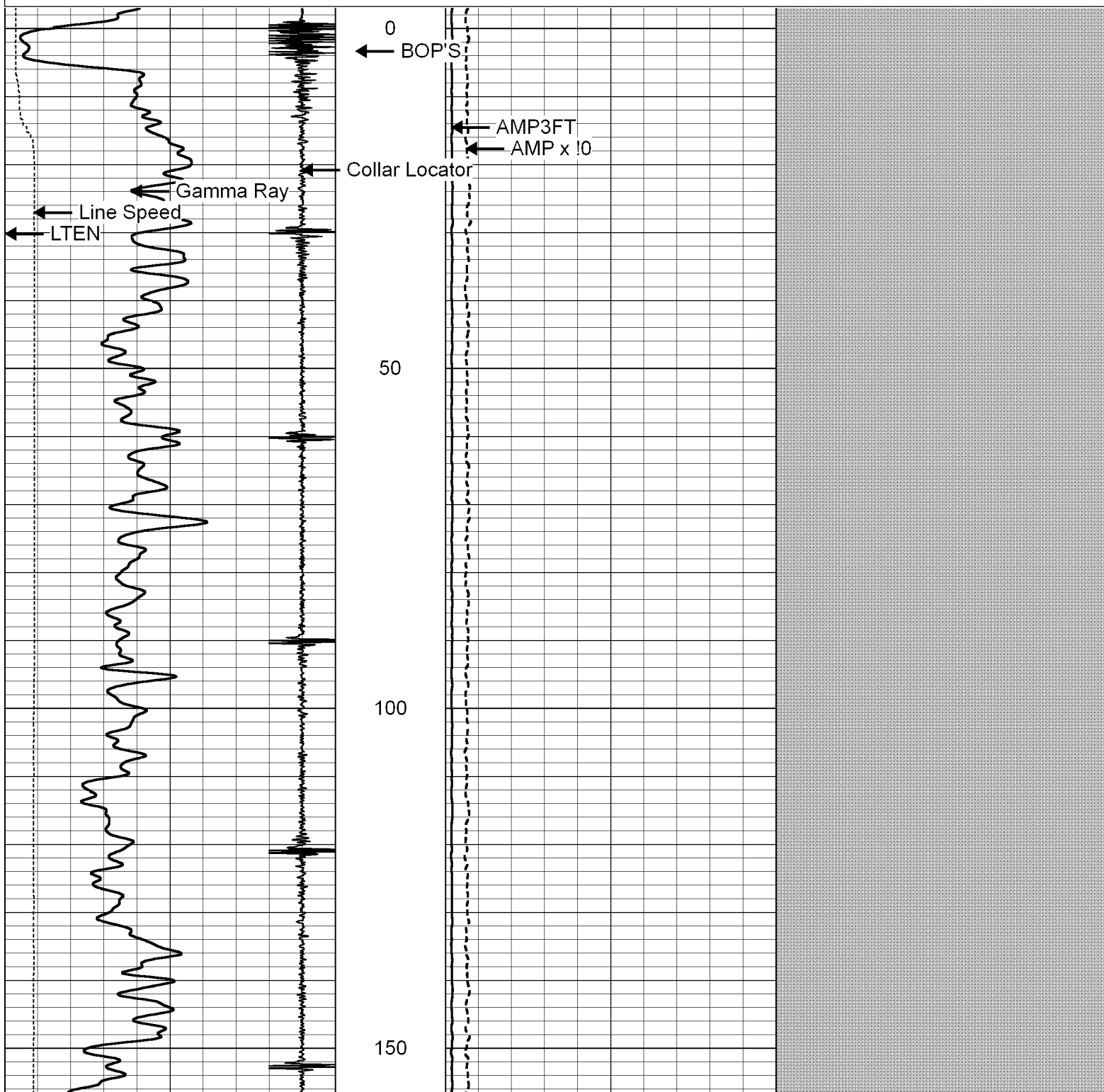
Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

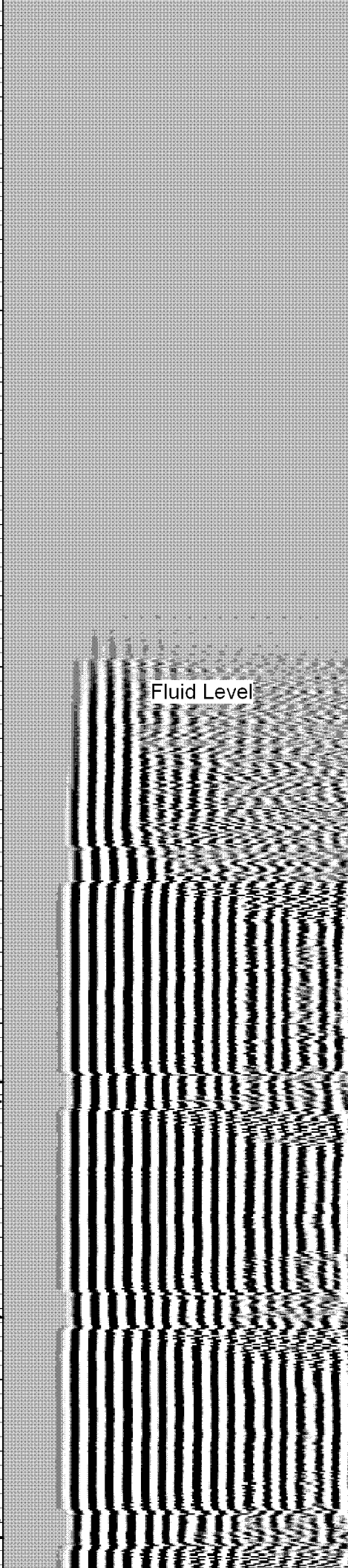
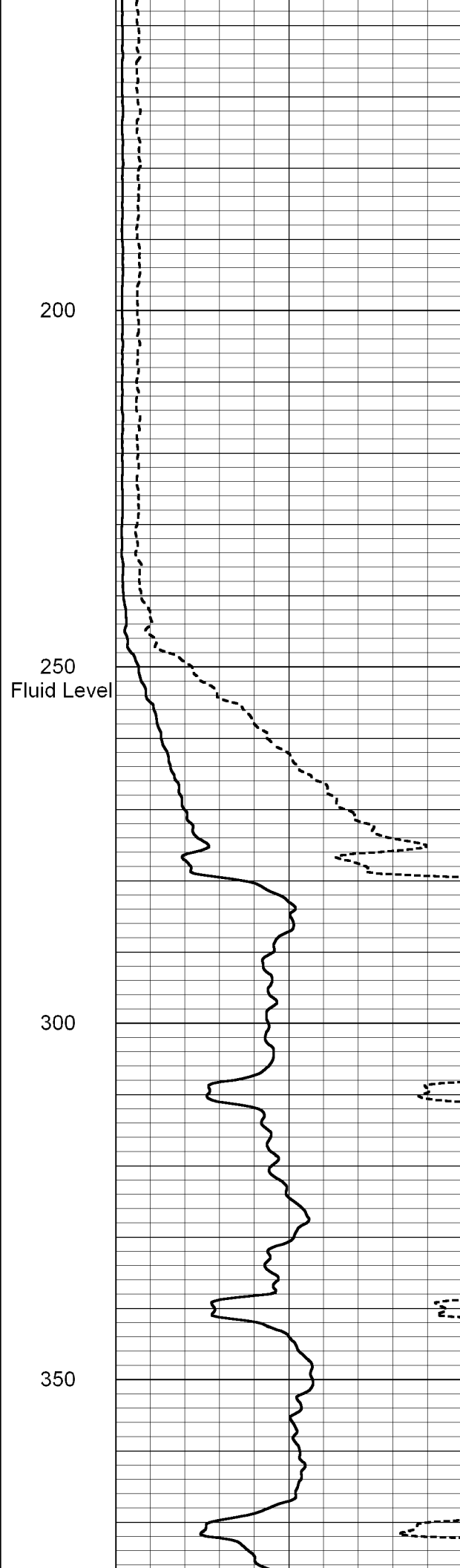
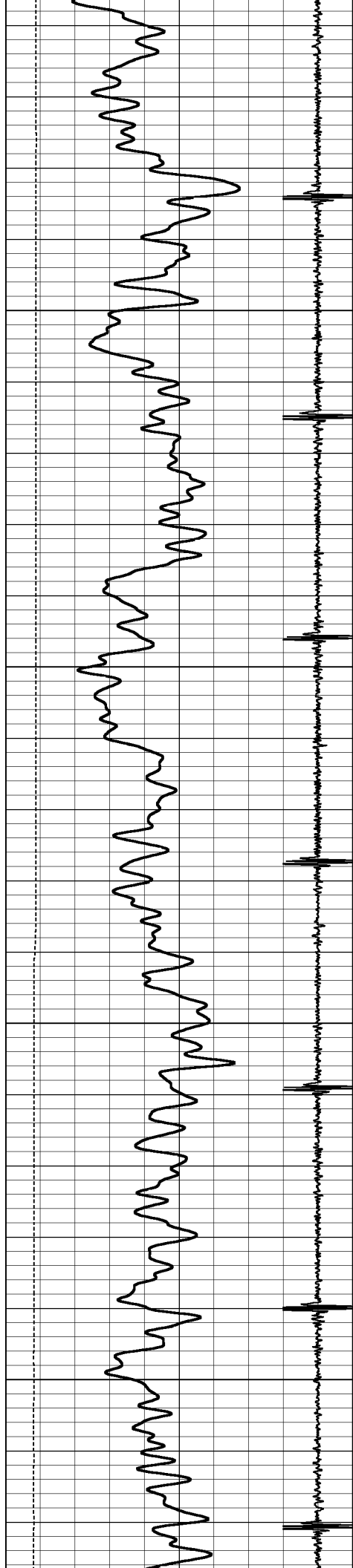
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1			
S2			
S3			
S4			
S5			
S6			

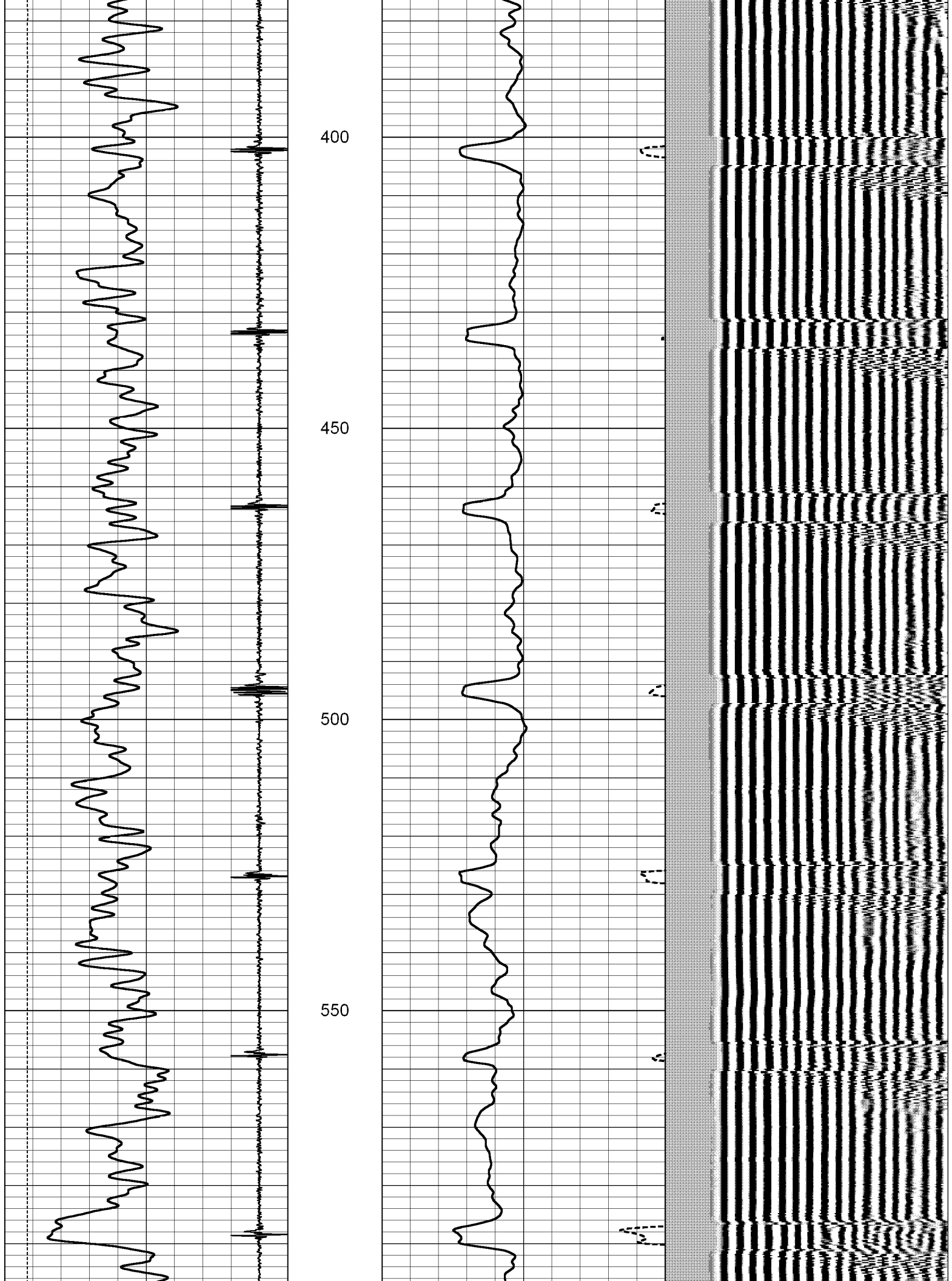
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 Dataset Pathname: pass1  
 Presentation Format: radiicbl  
 Dataset Creation: Tue Jul 12 08:54:53 2016 by Log 7.0 B1  
 Charted by: Depth in Feet scaled 1:240

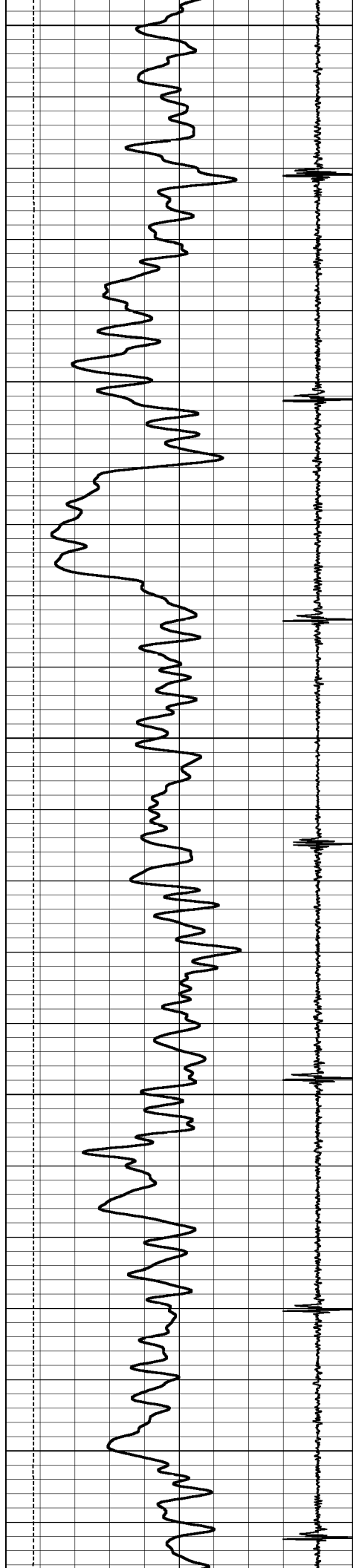
90	Collar Locator	-10
0	Gamma Ray (GAPI)	200
-10	Line Speed (ft/min)	-1200
0	LTEN (lb)	5000

0	AMP3FT (mV)	100	200	Variable Density	1200
0	AMP x !0 (mV)	30			









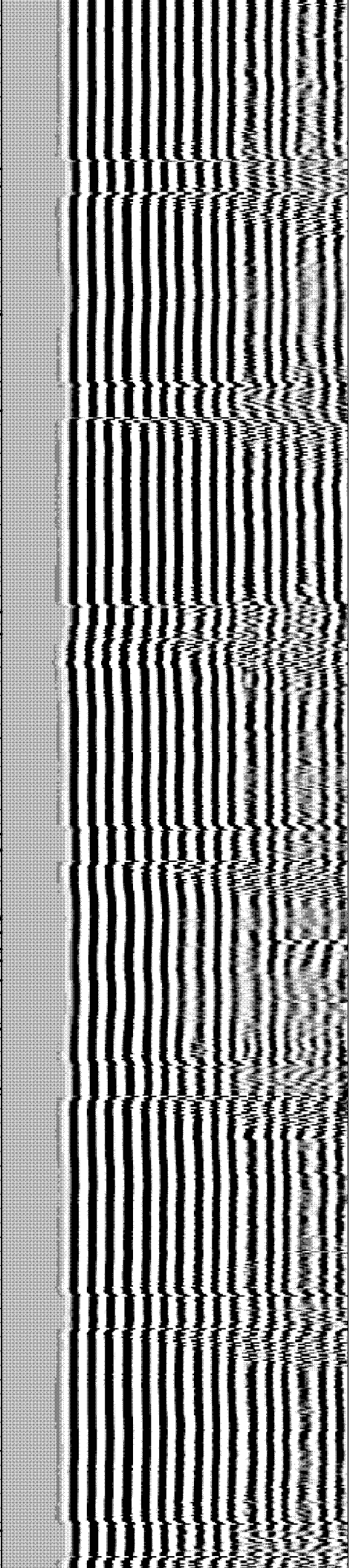
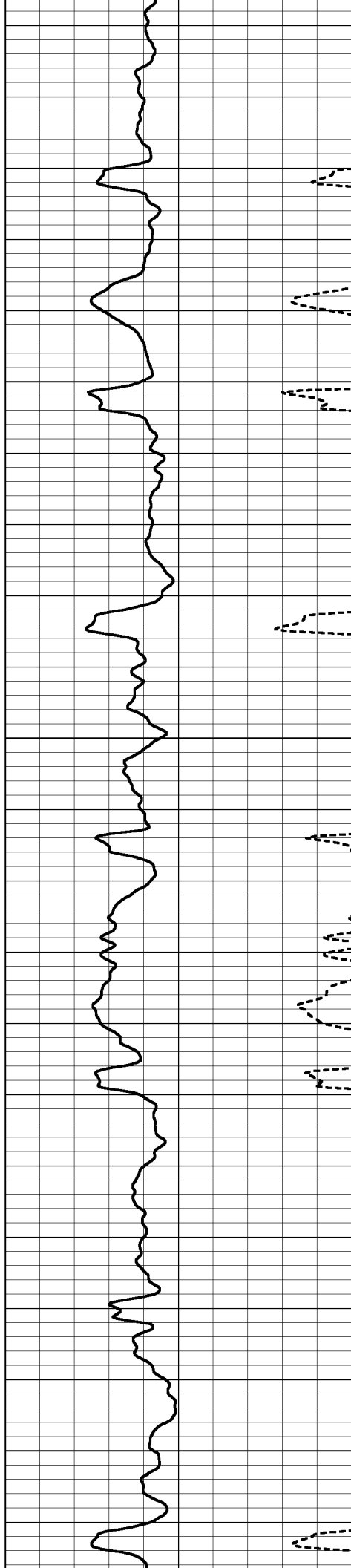
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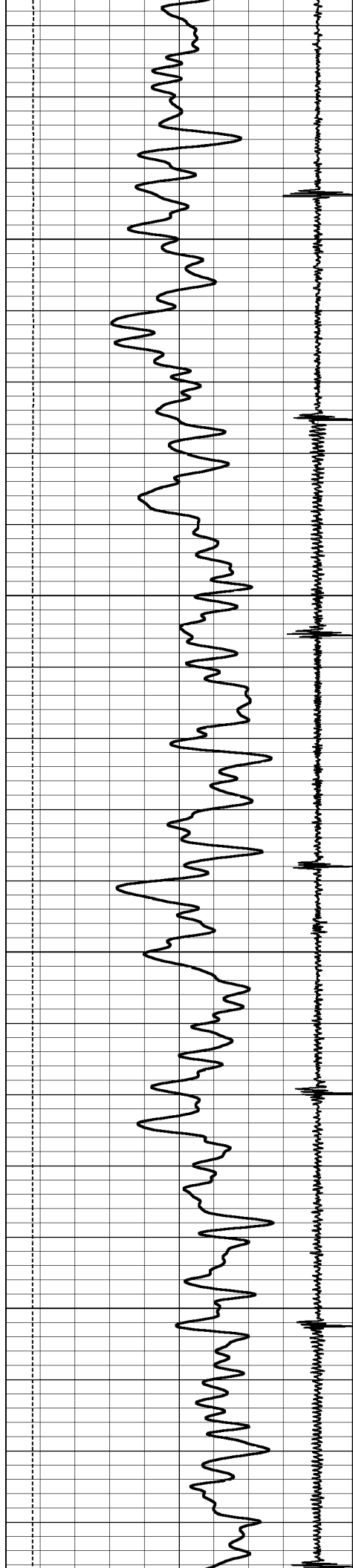
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700

750

800



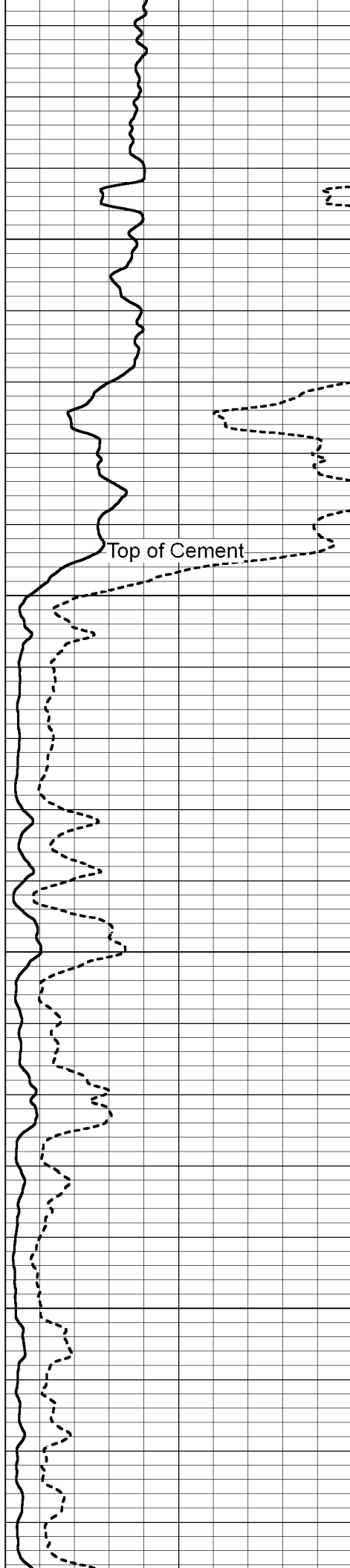


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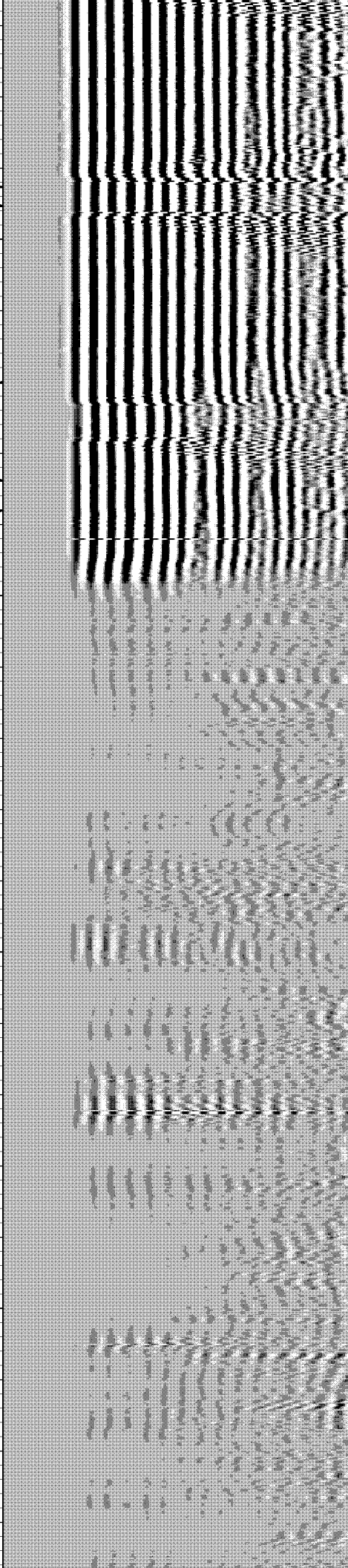
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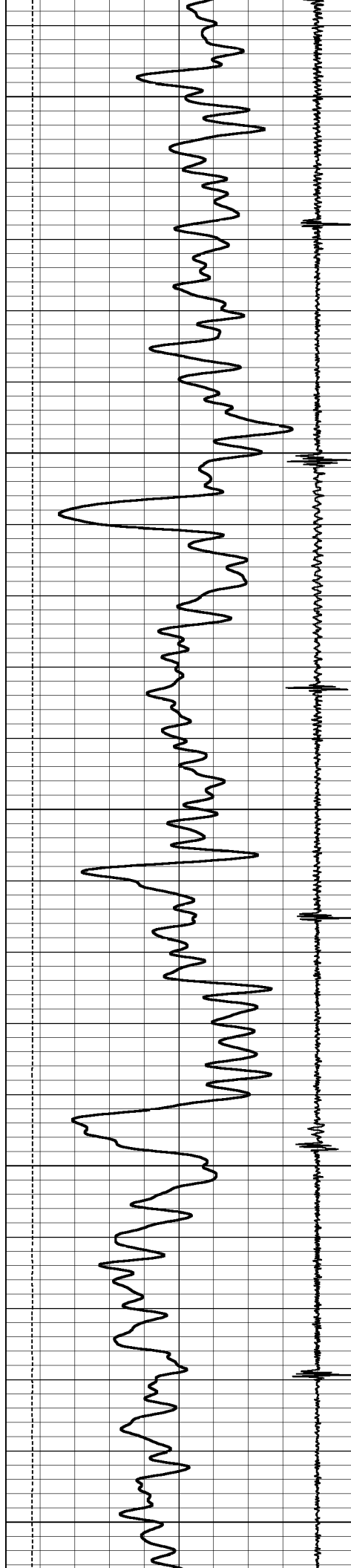
1000



Top of Cement







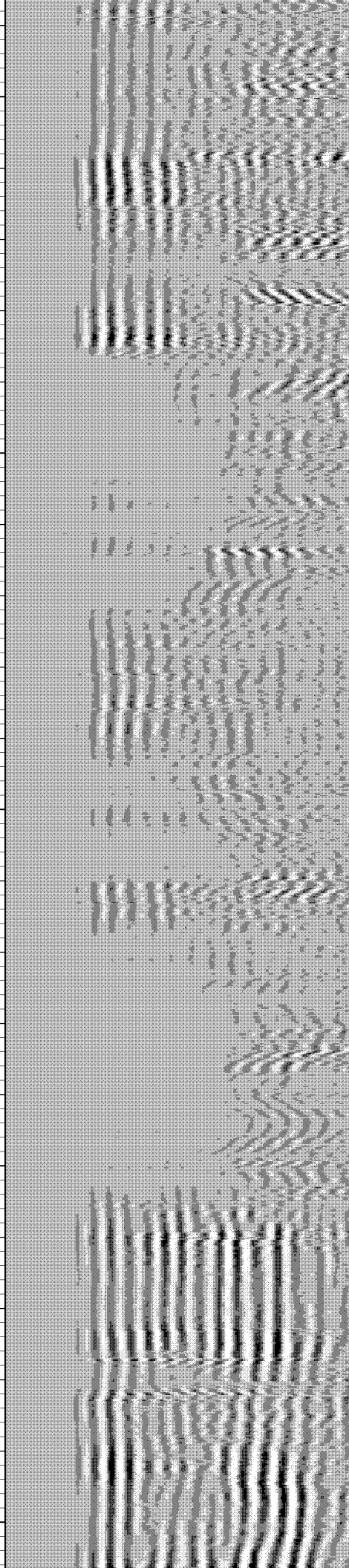
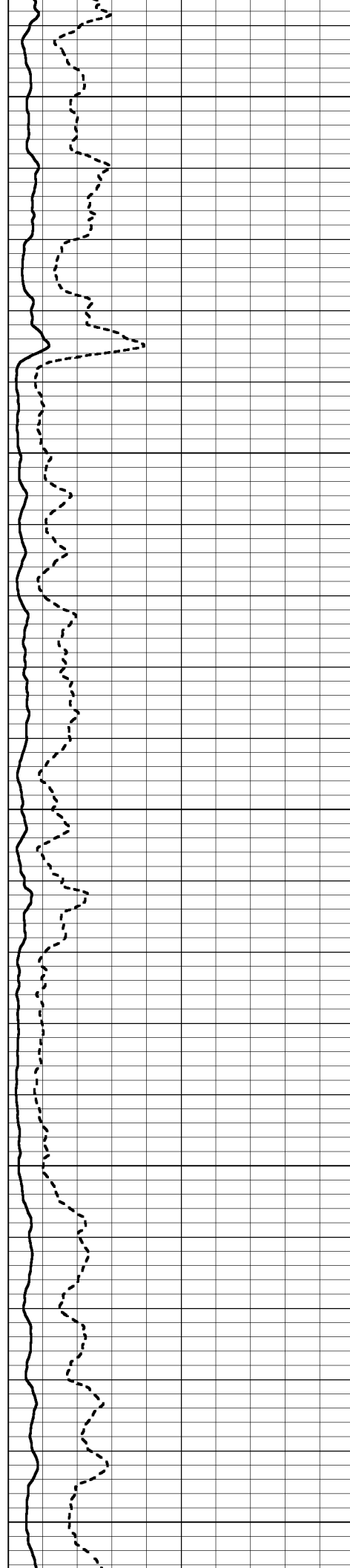
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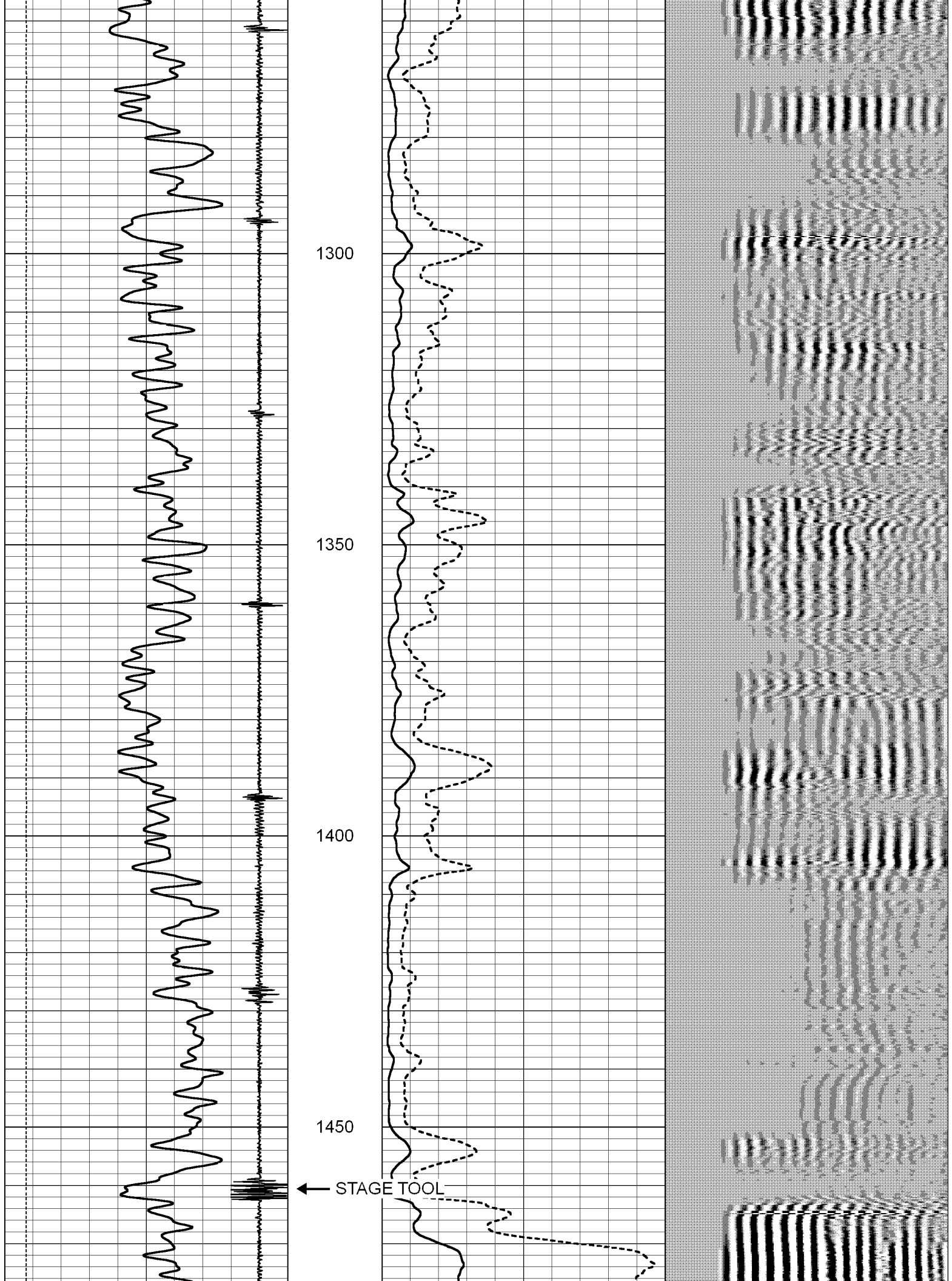
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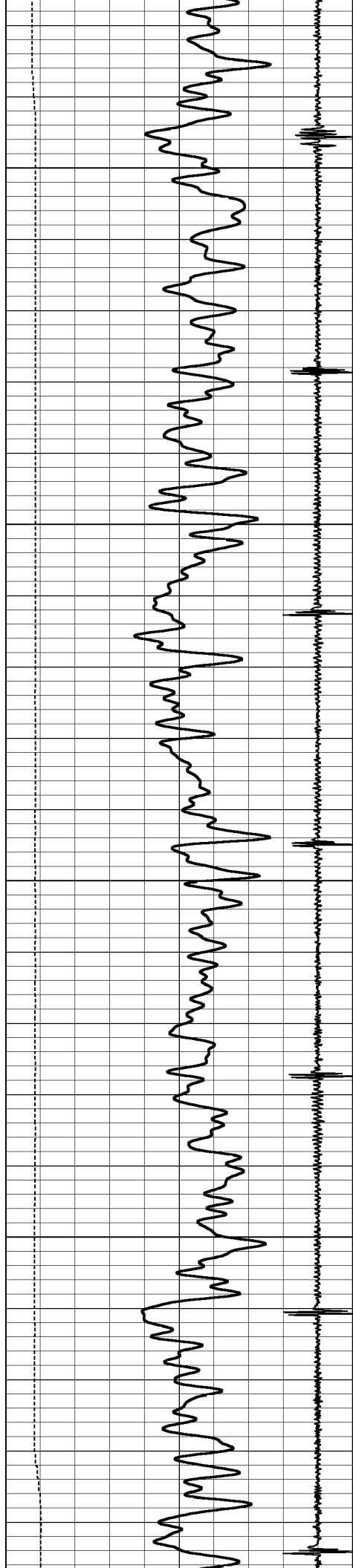
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1250







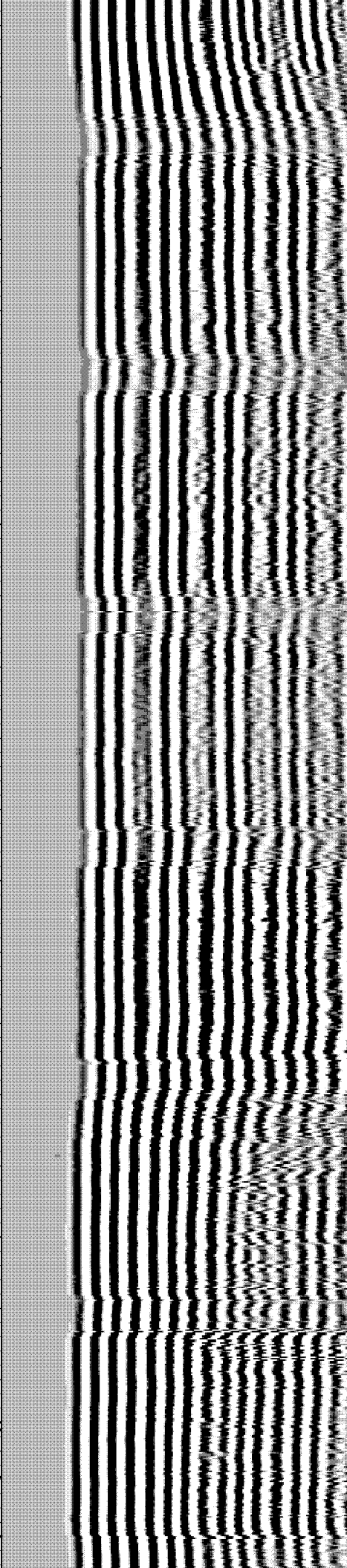
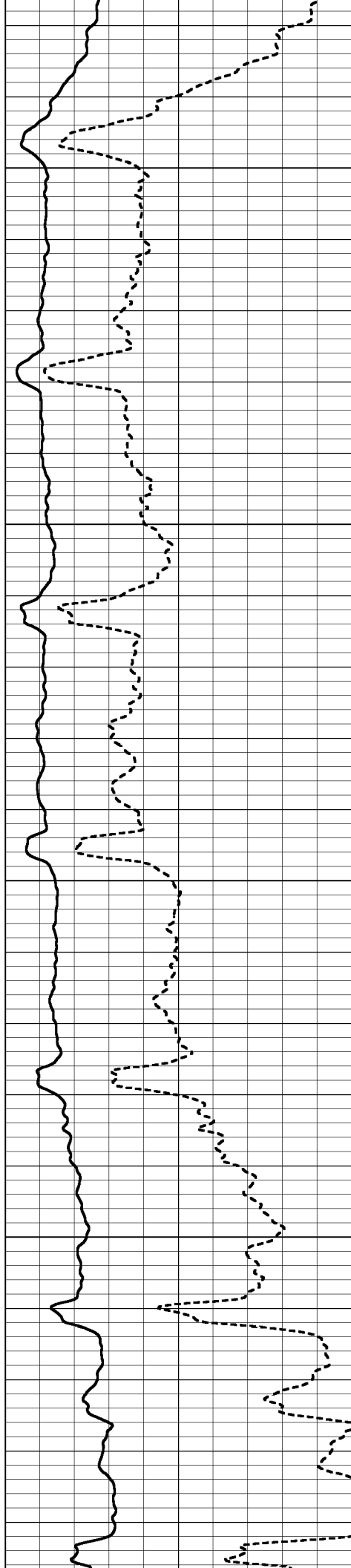


1500

1550

1600

1650





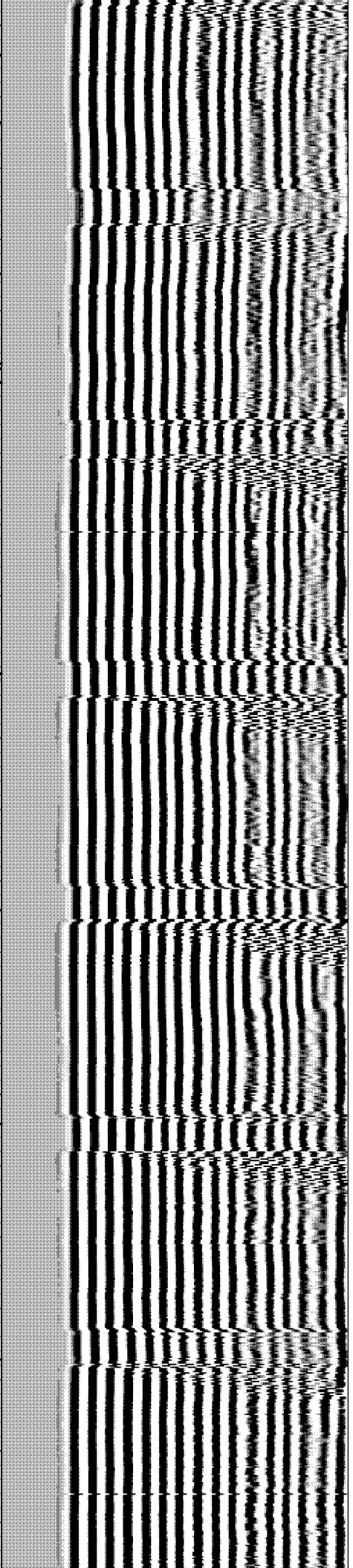
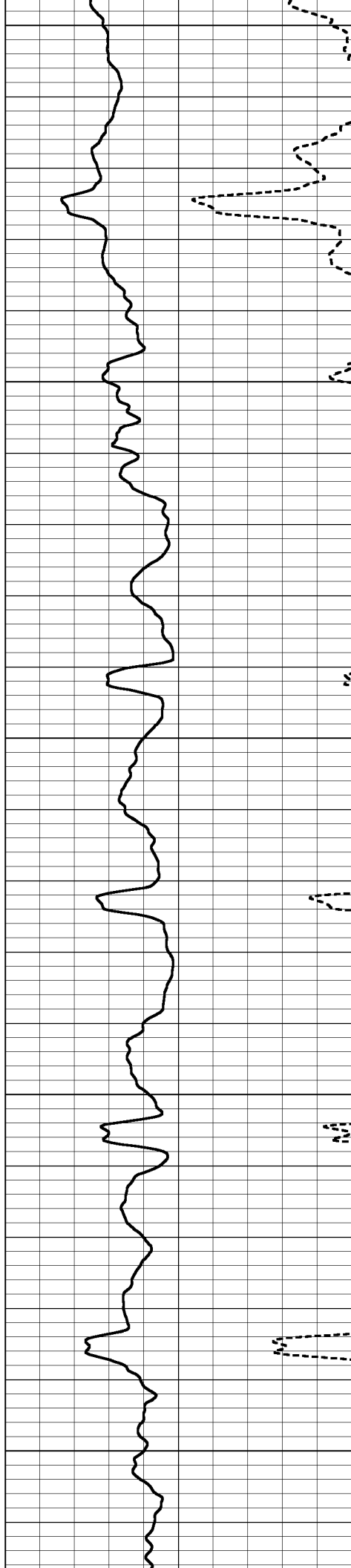
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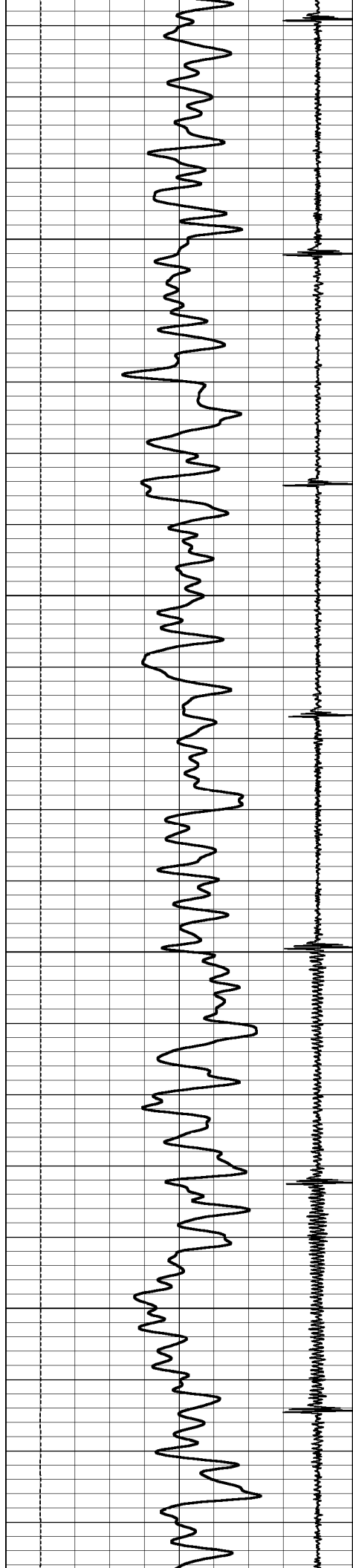
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1900



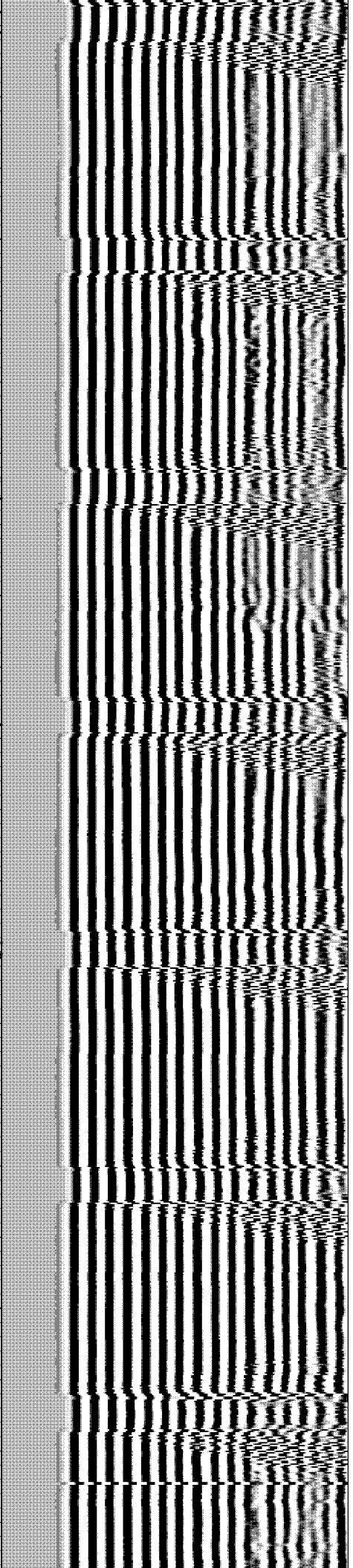
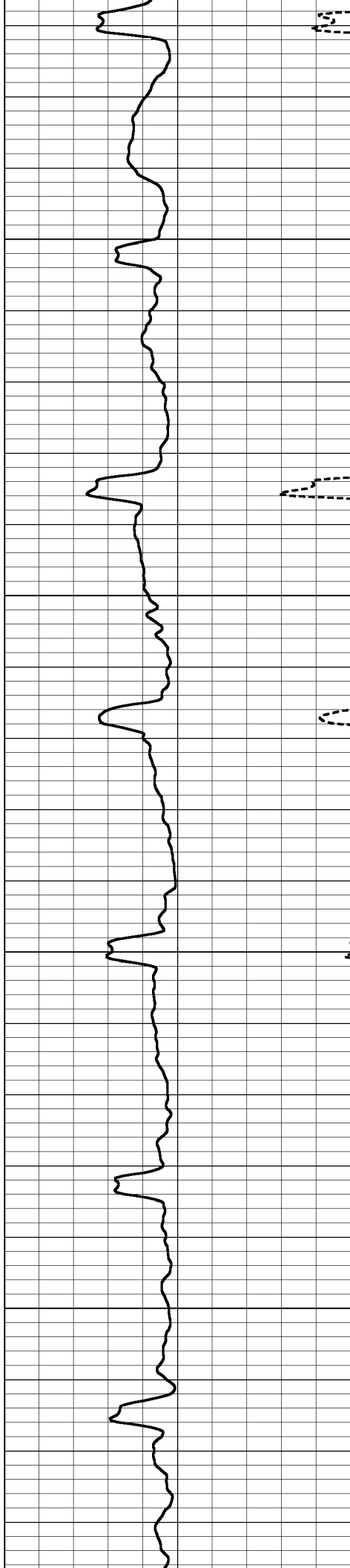


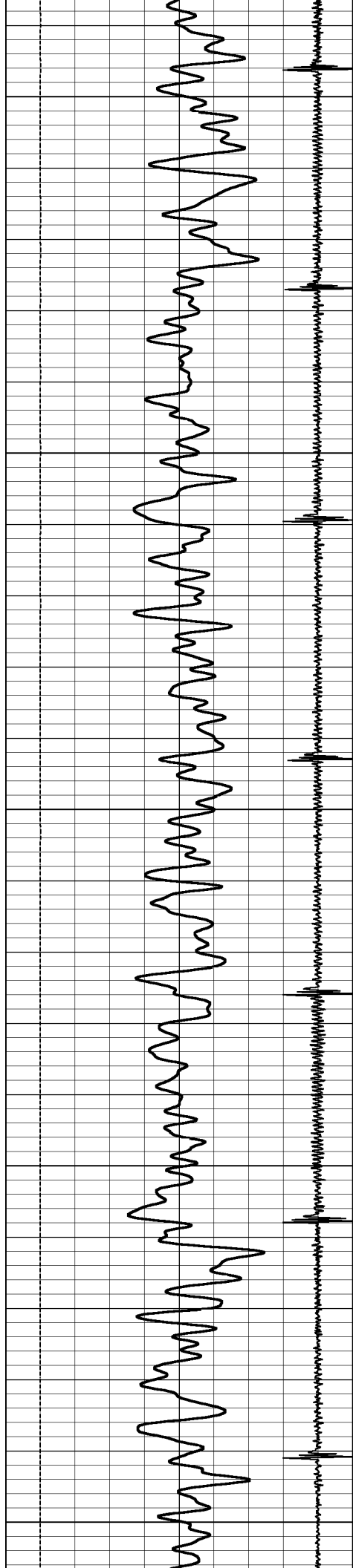
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2000

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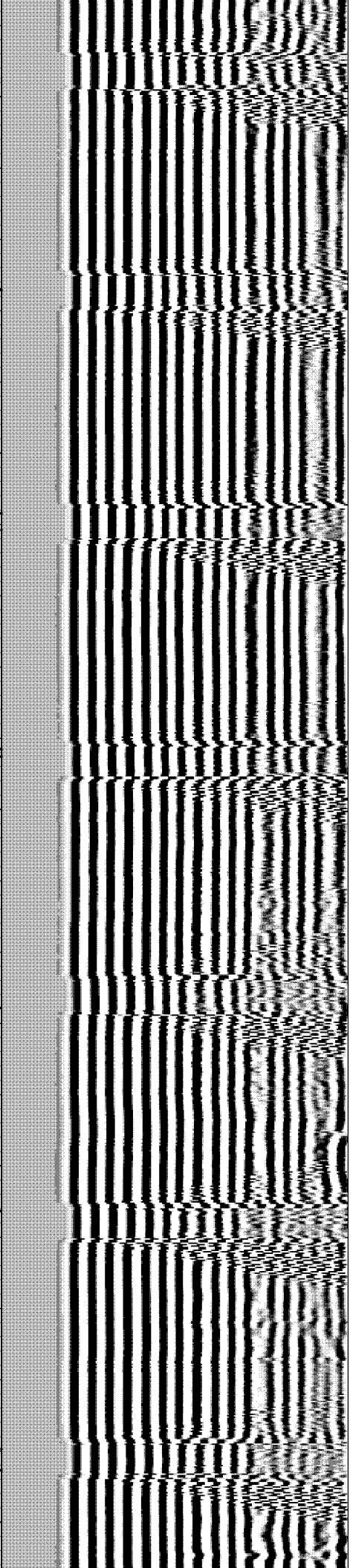
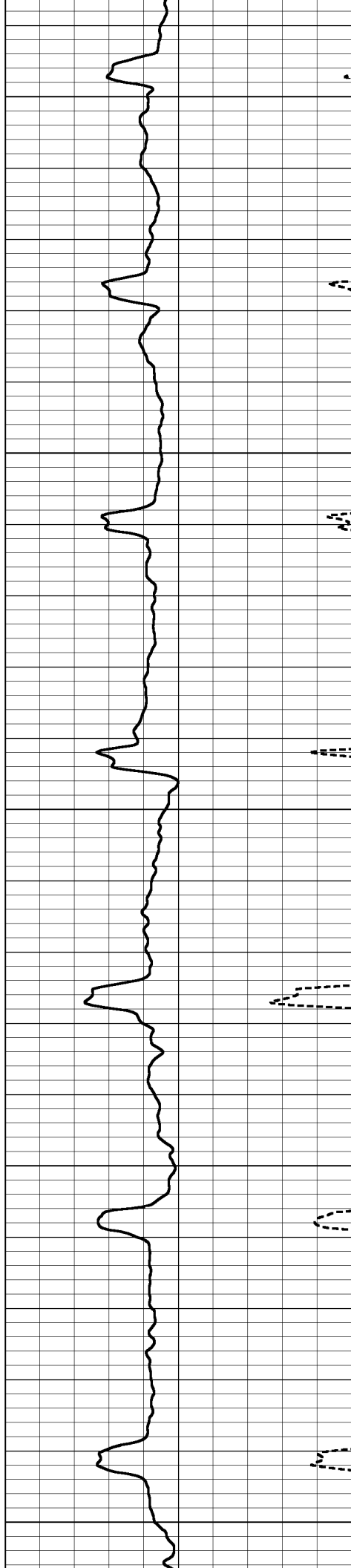
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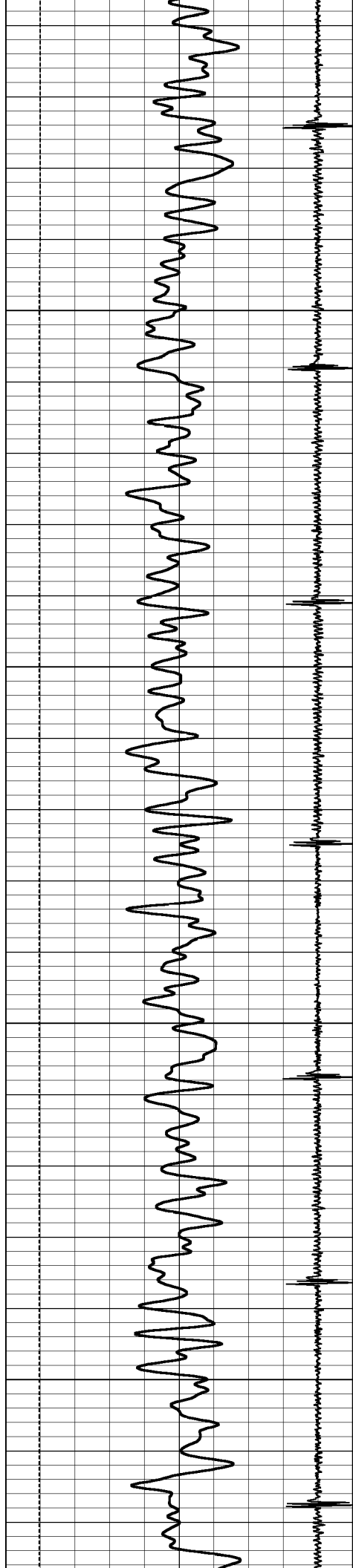
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2250

2300

2350



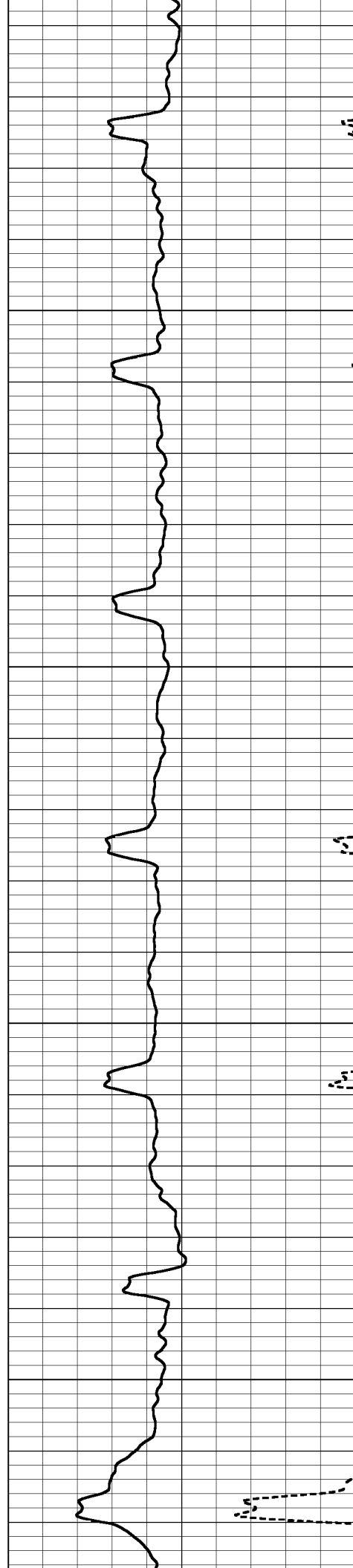


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2450

2500

2550

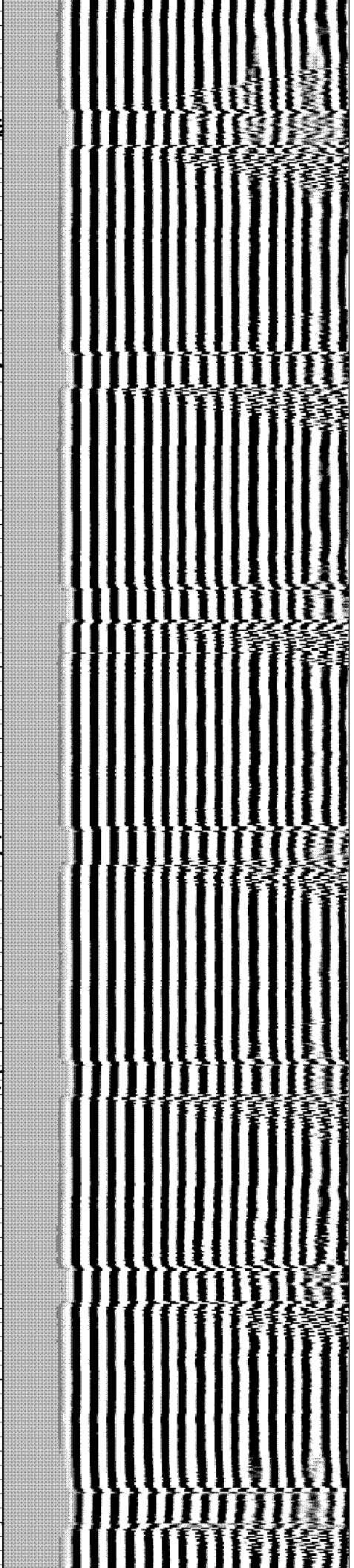


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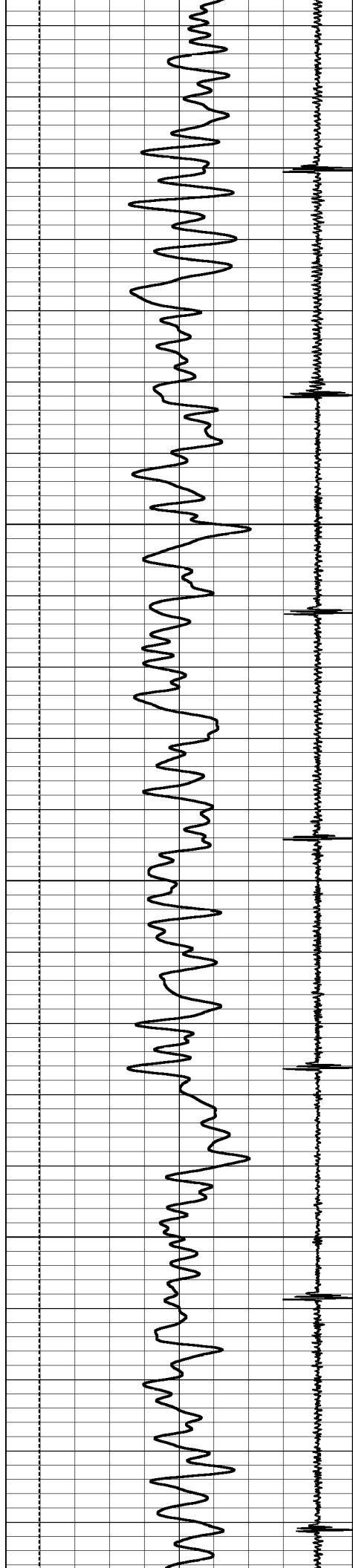
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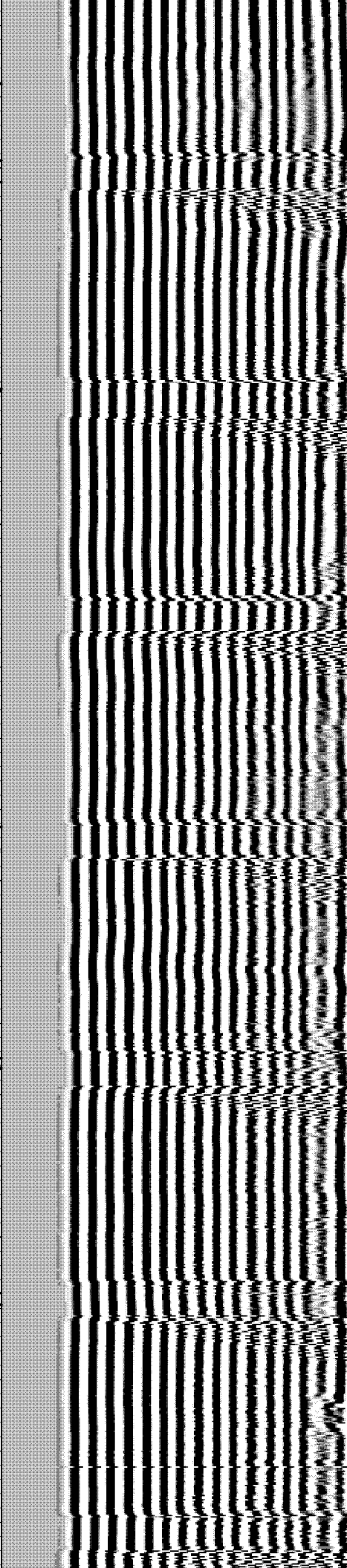
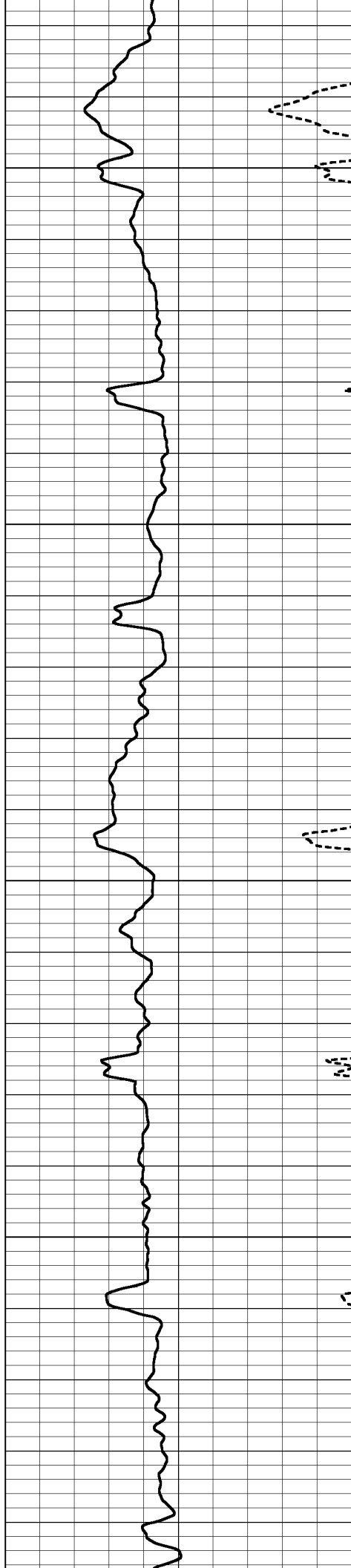


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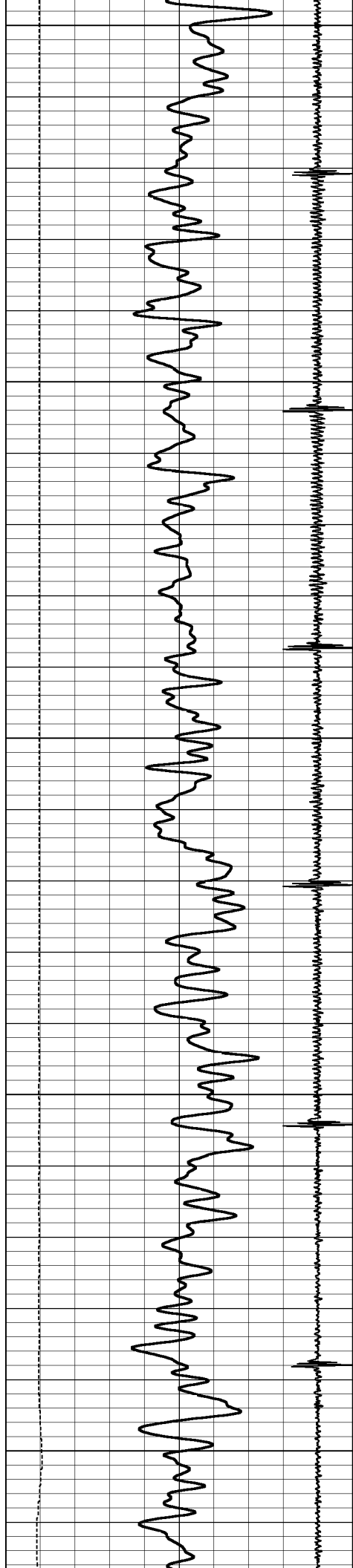
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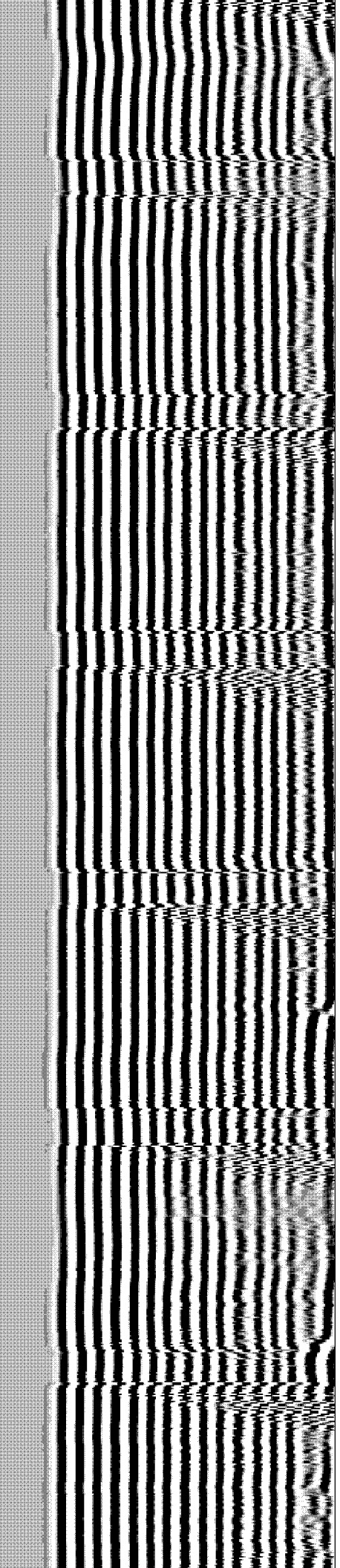
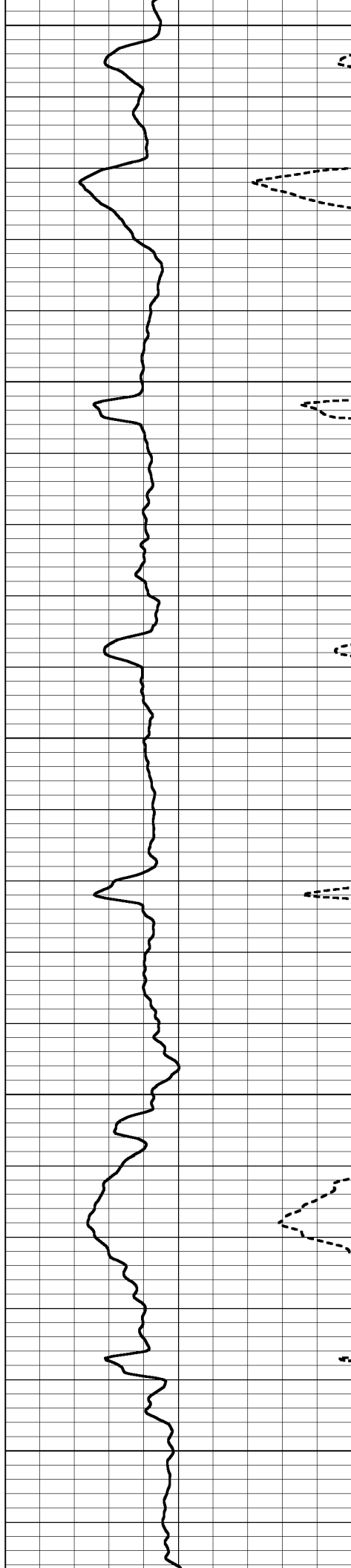
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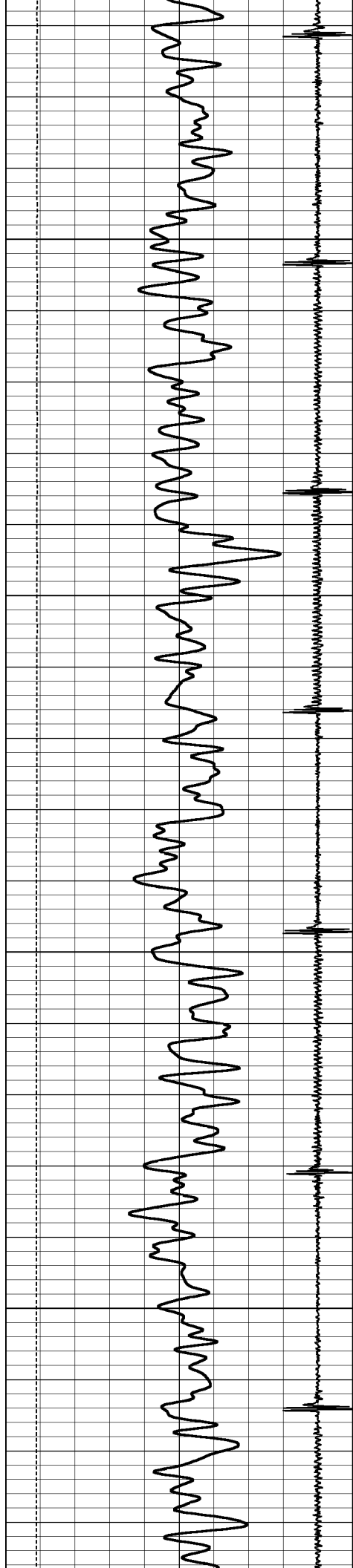
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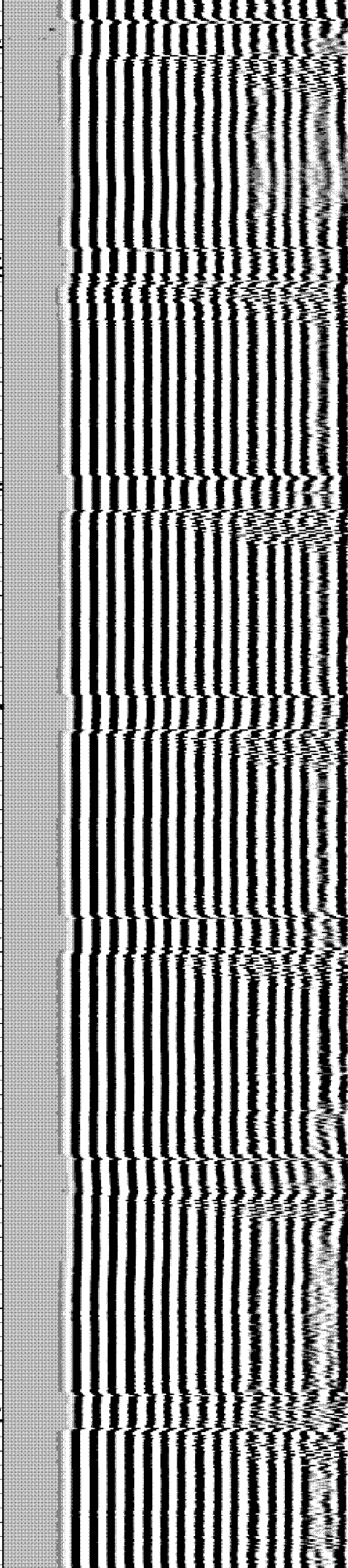
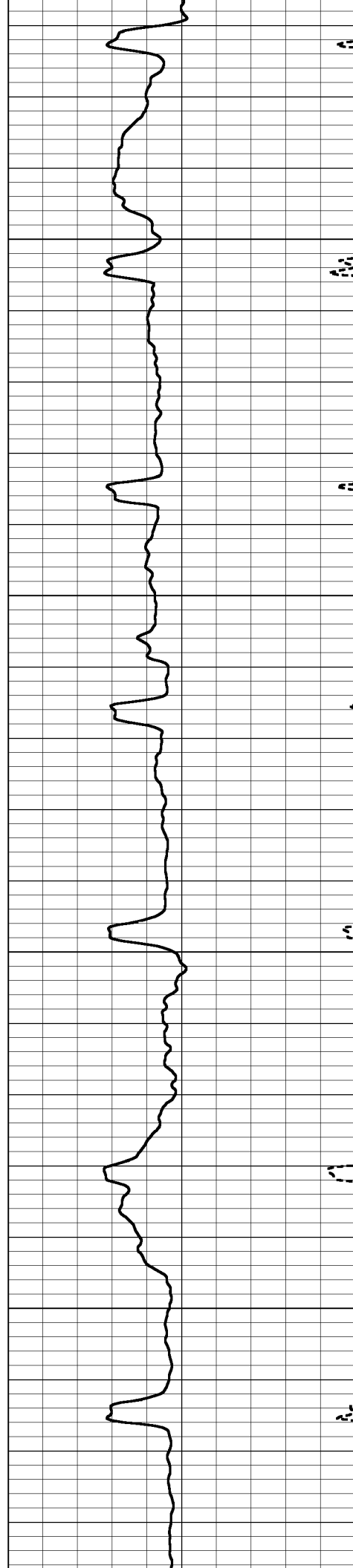


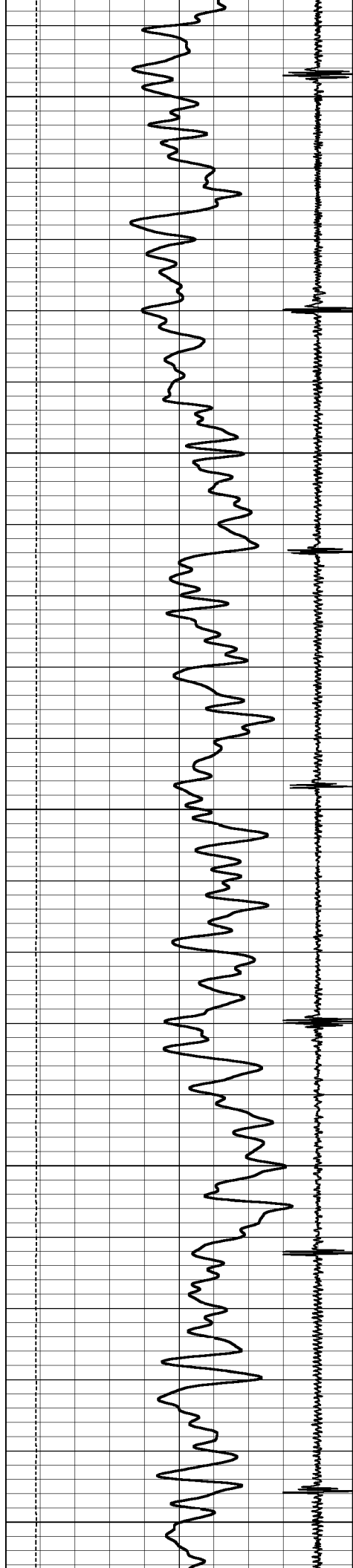
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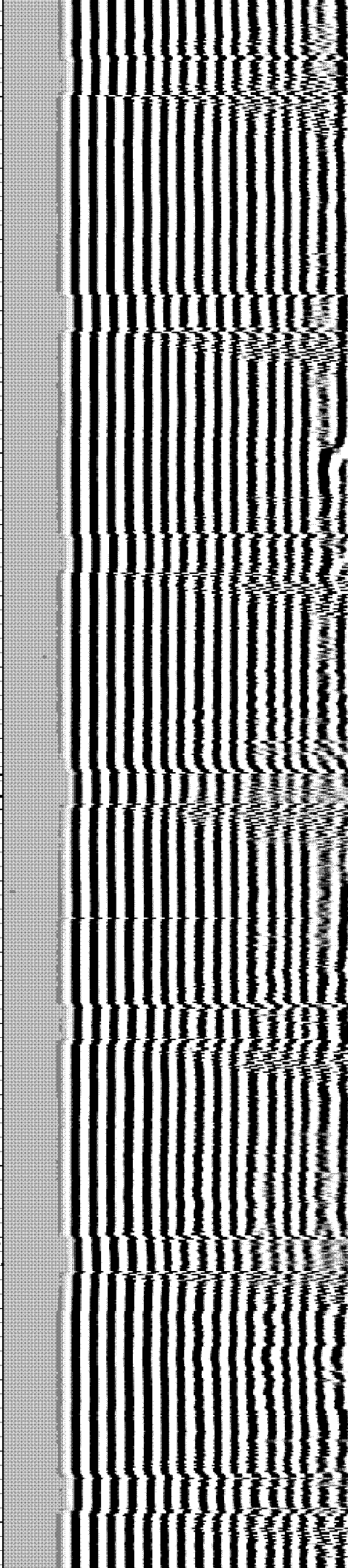
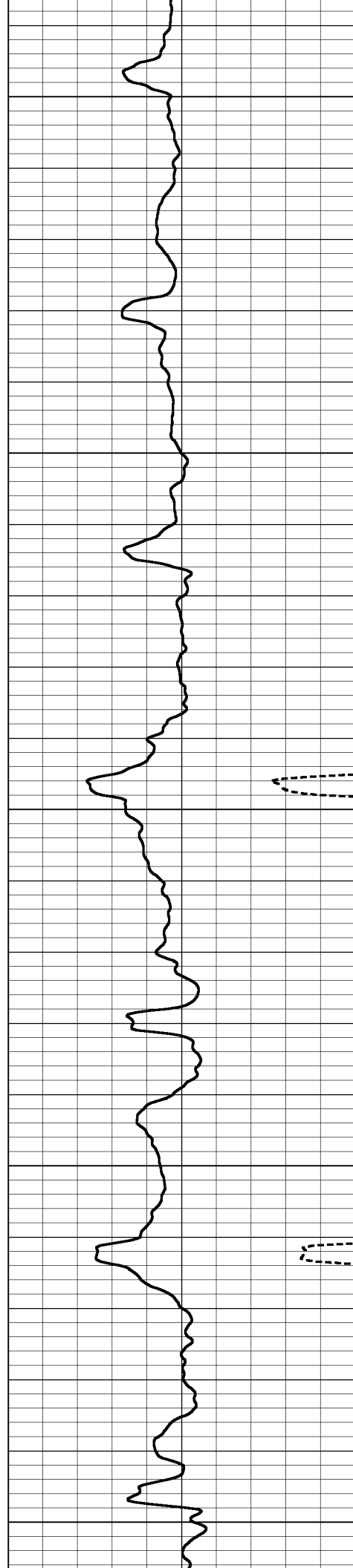
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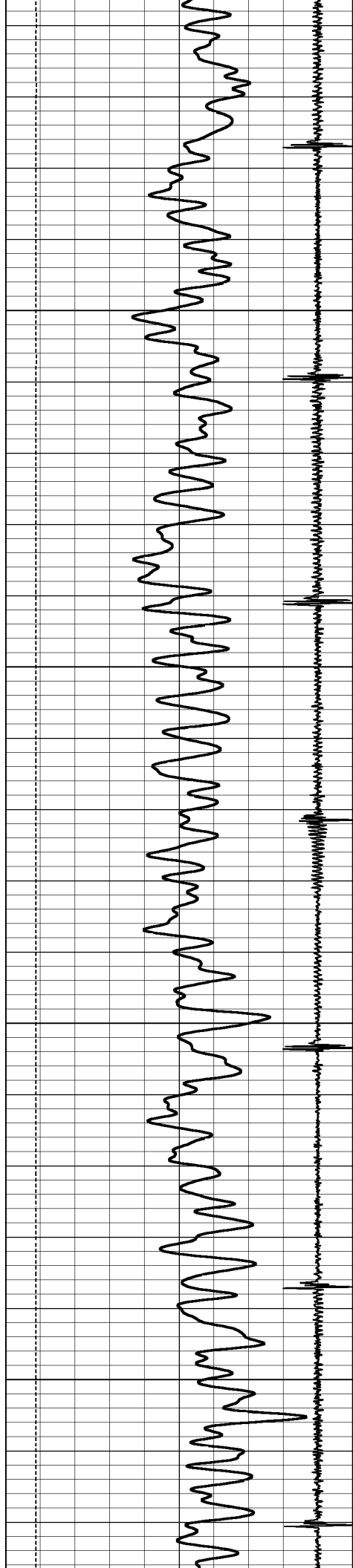
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3400

3450



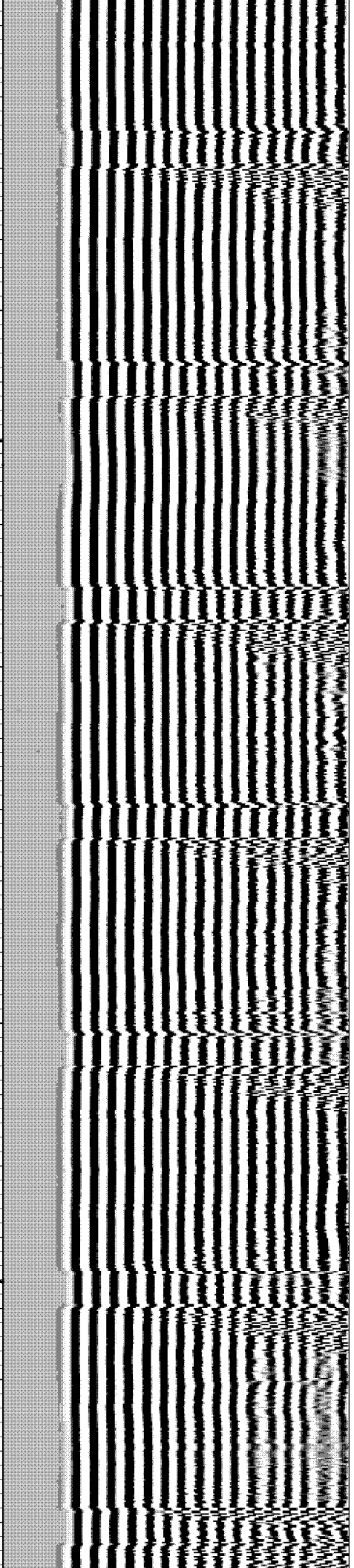
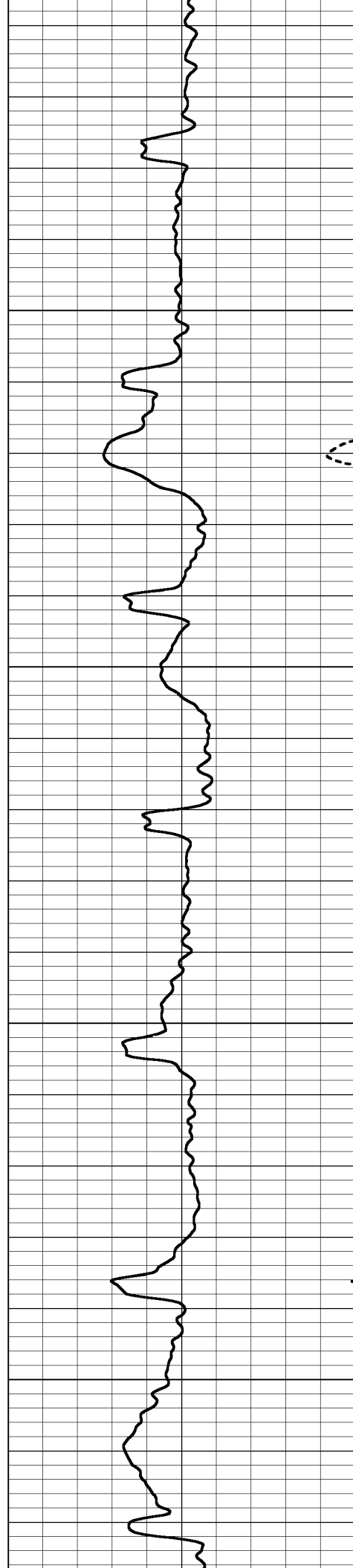


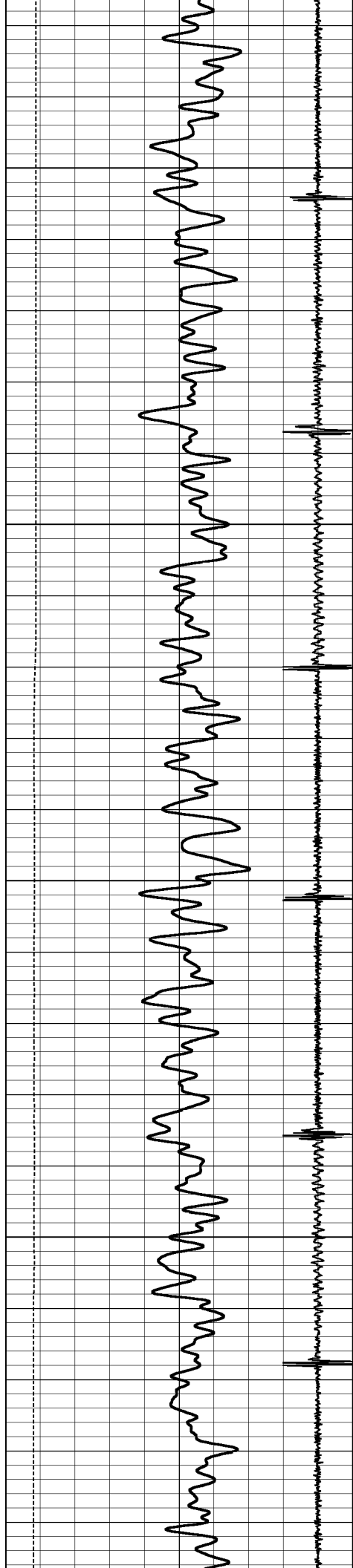
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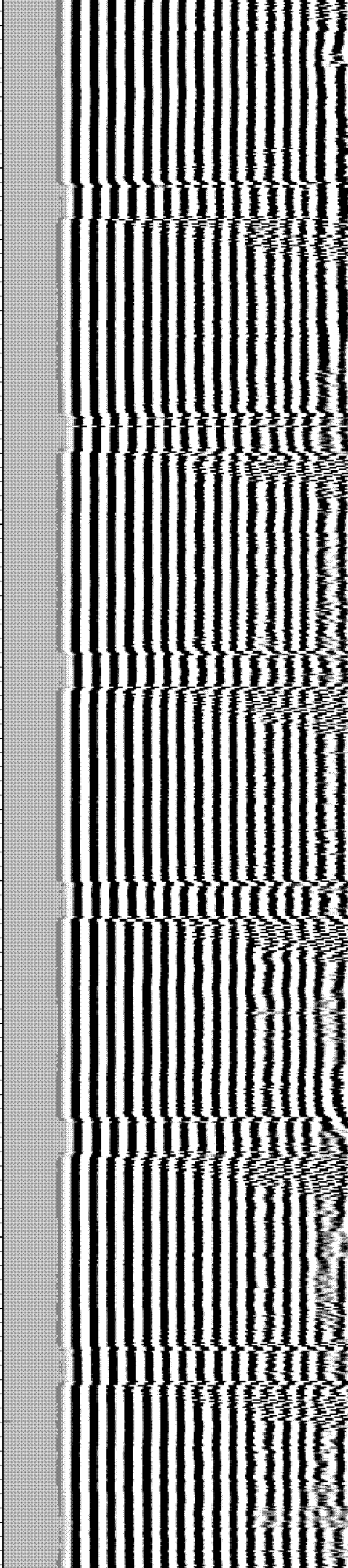
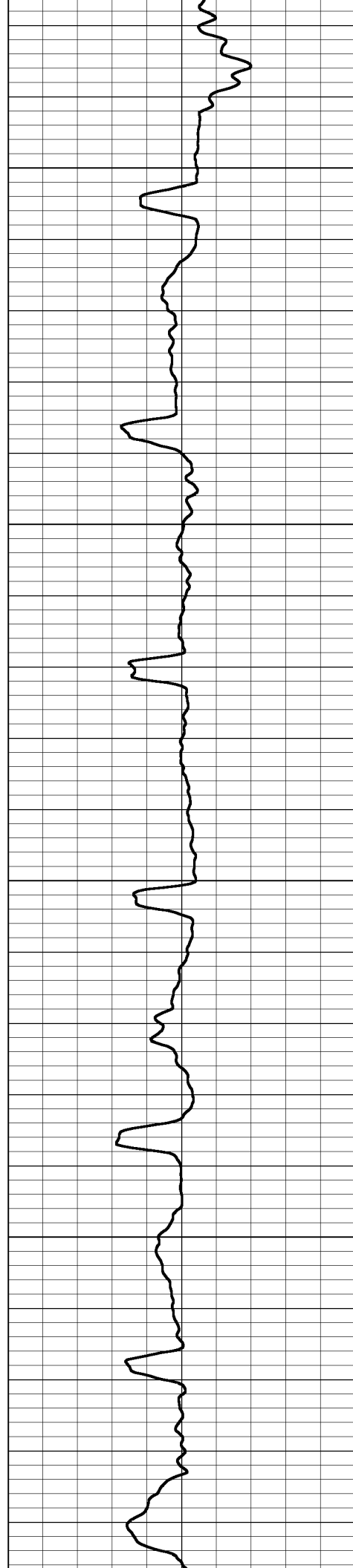


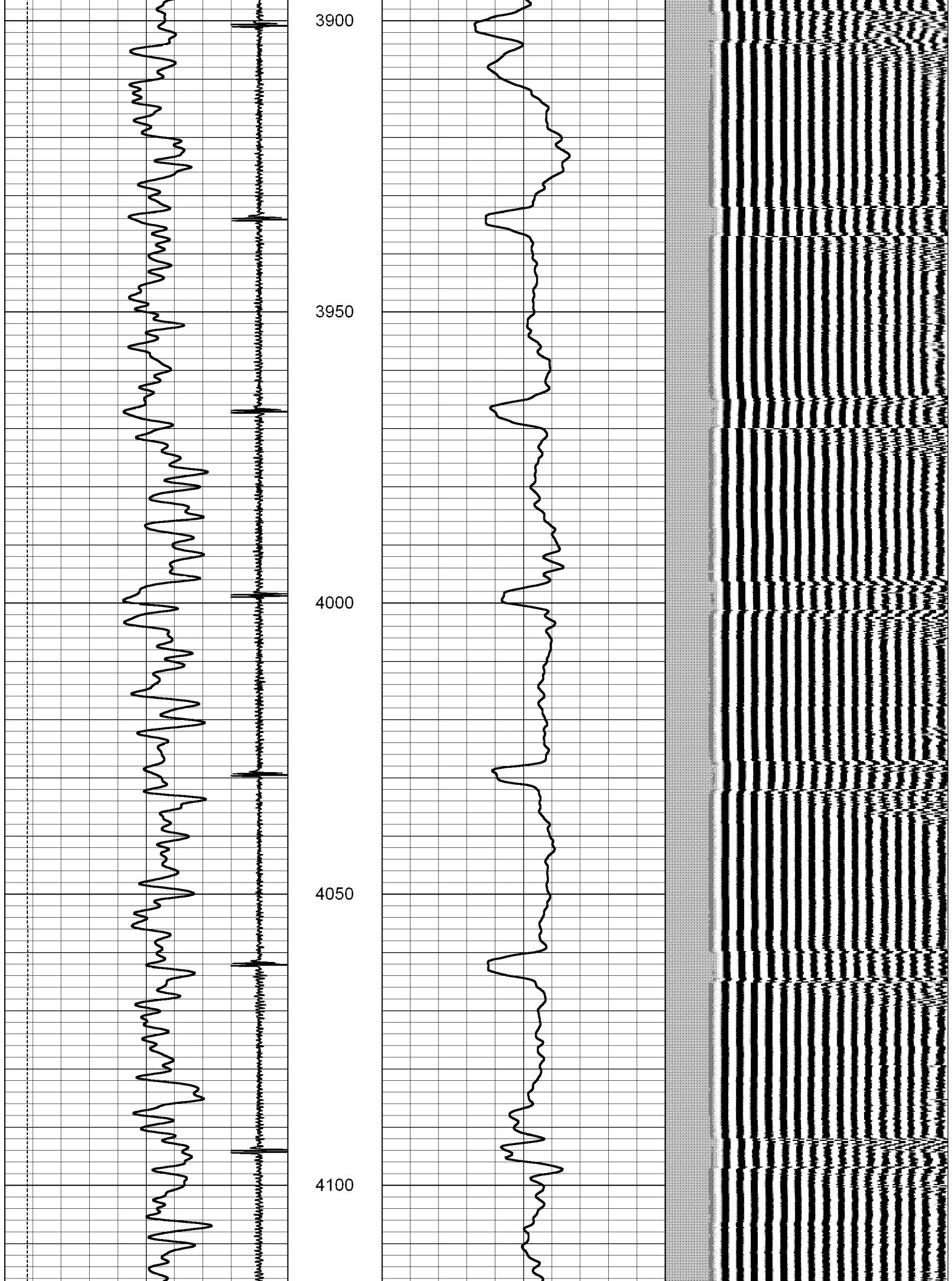
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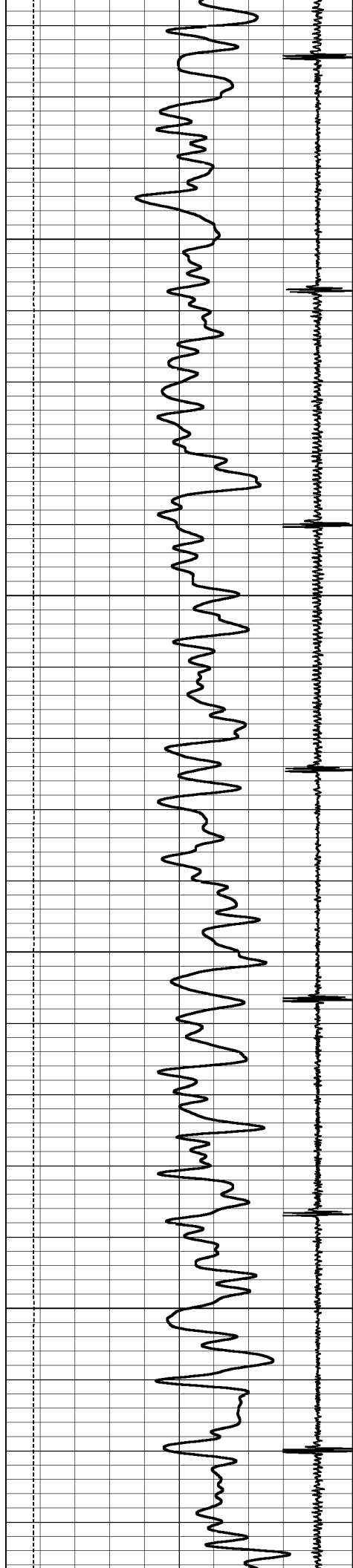
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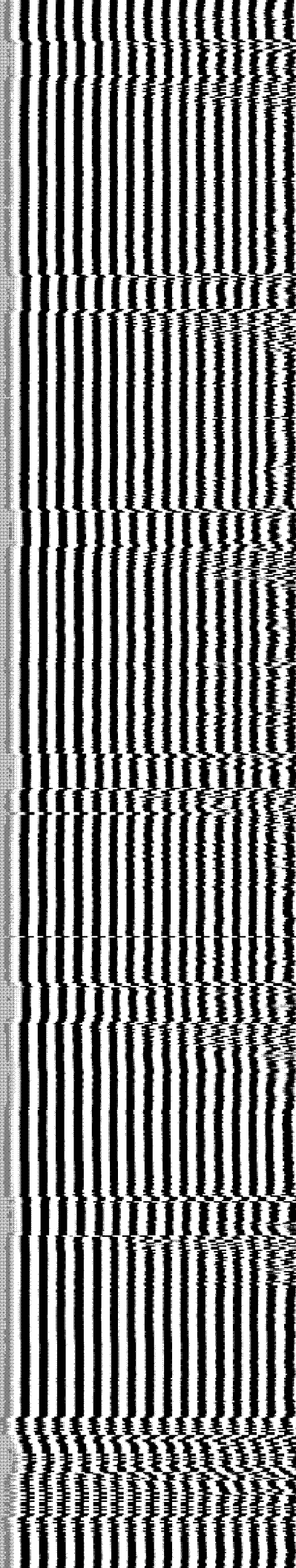
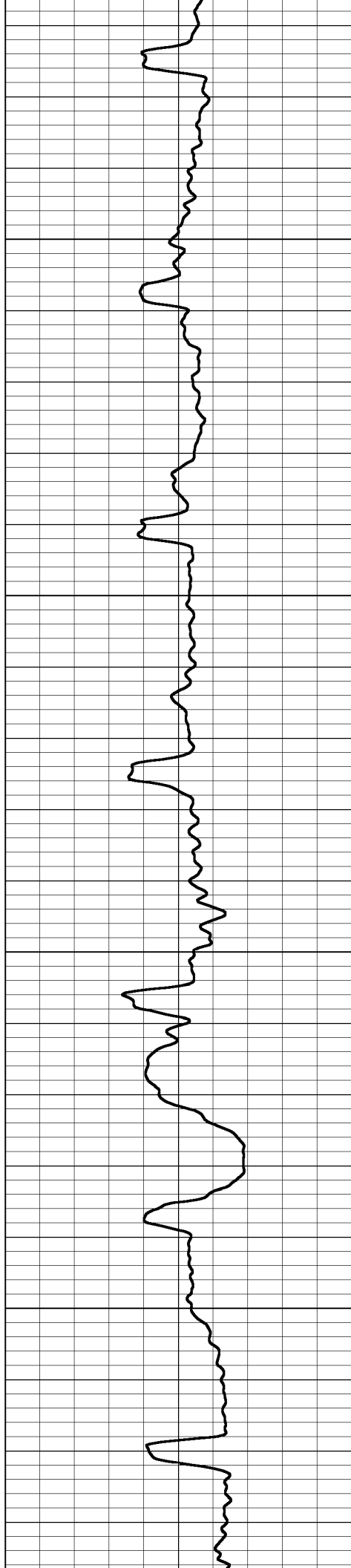


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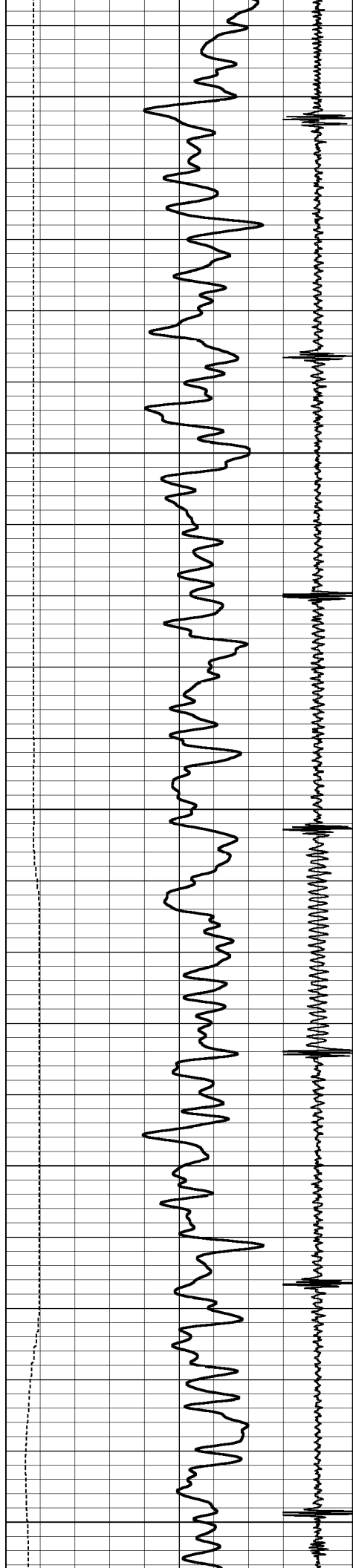
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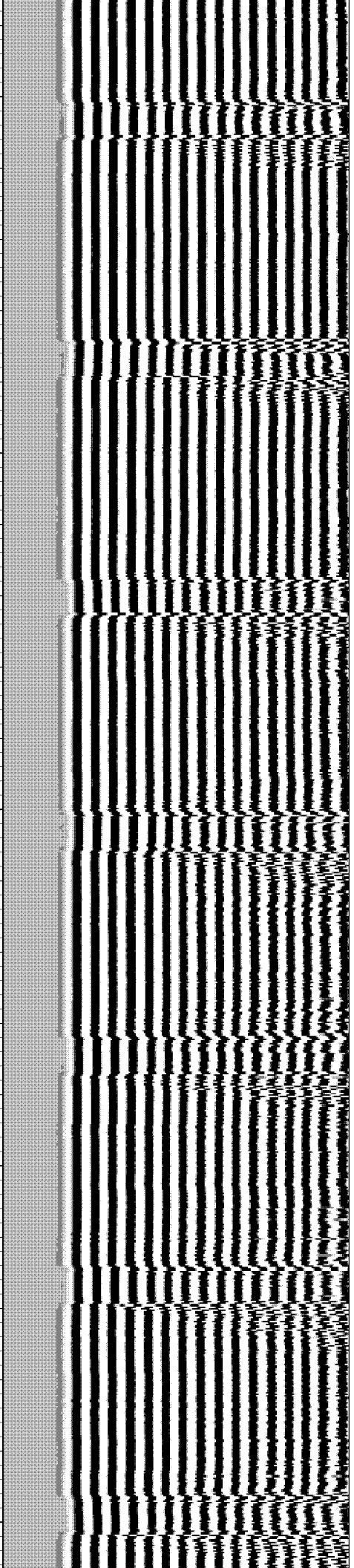
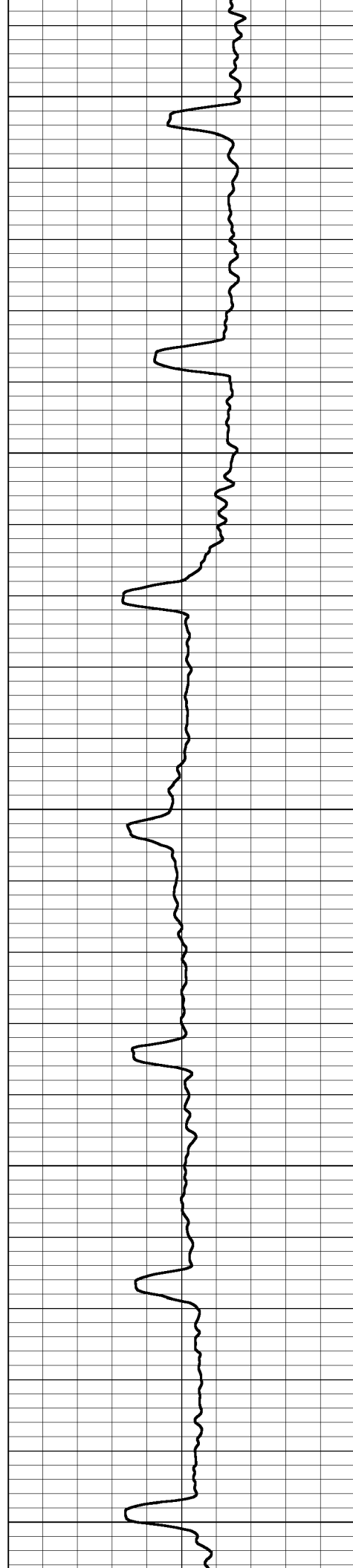
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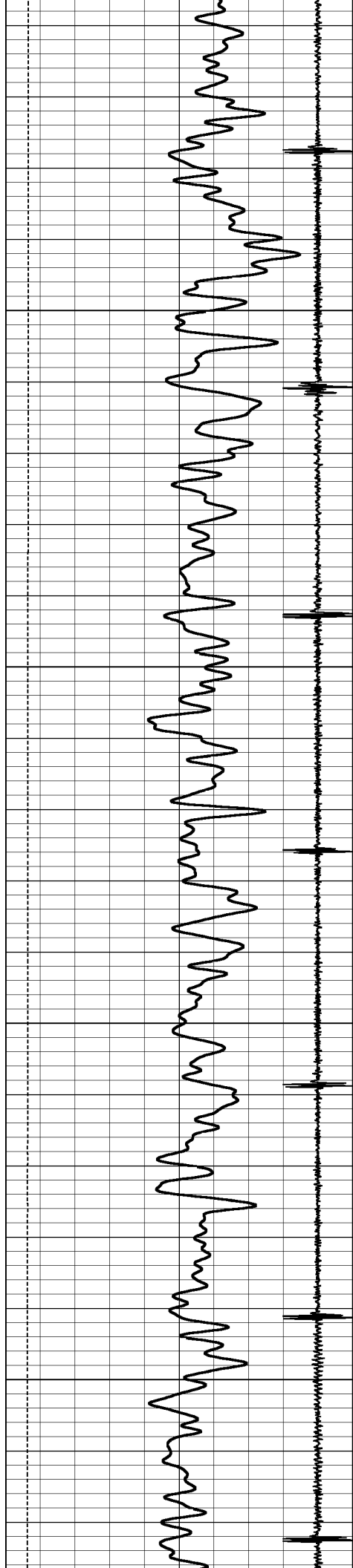
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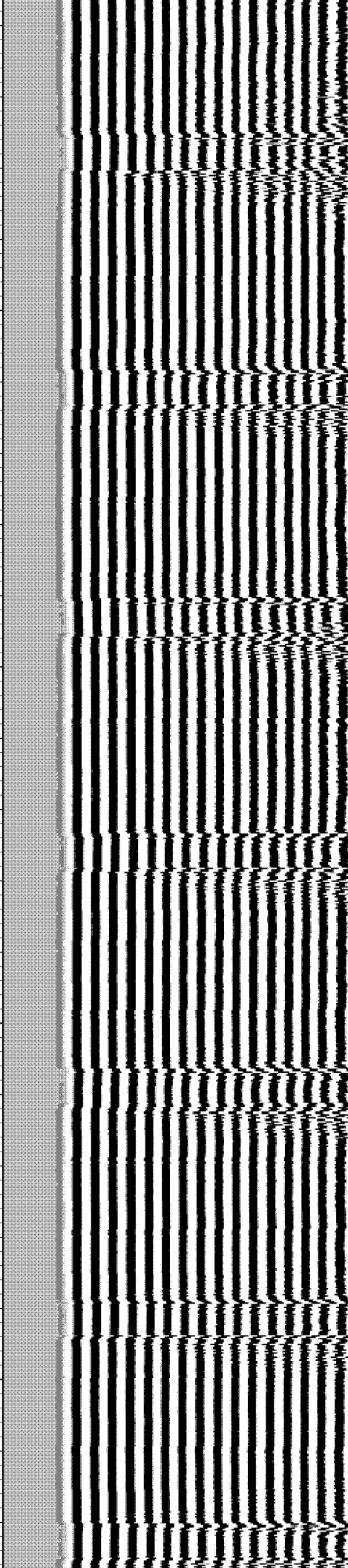
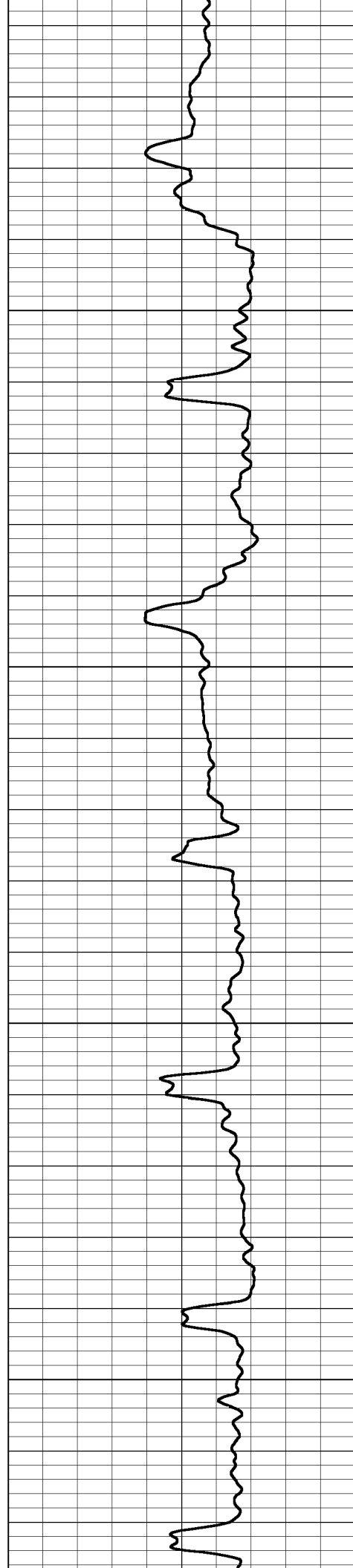


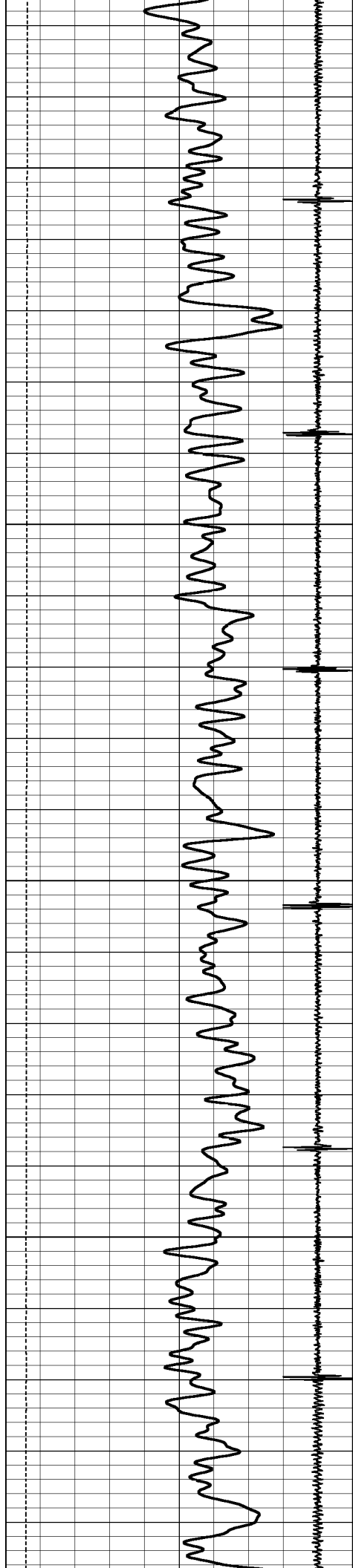
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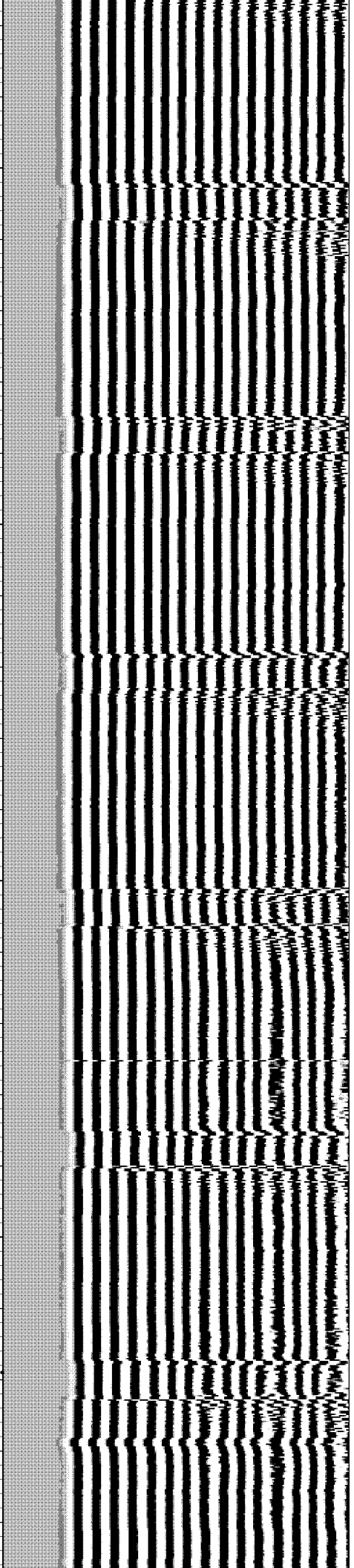
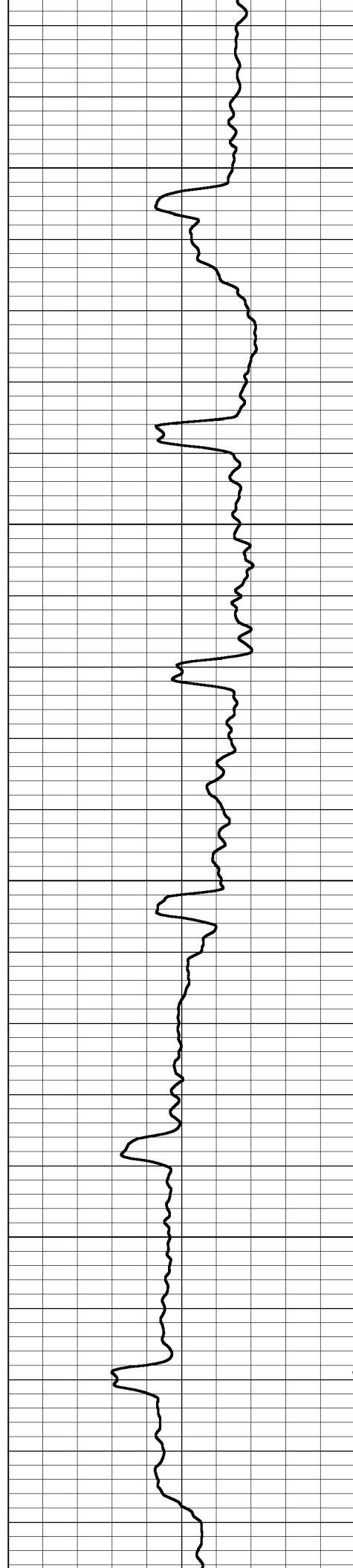


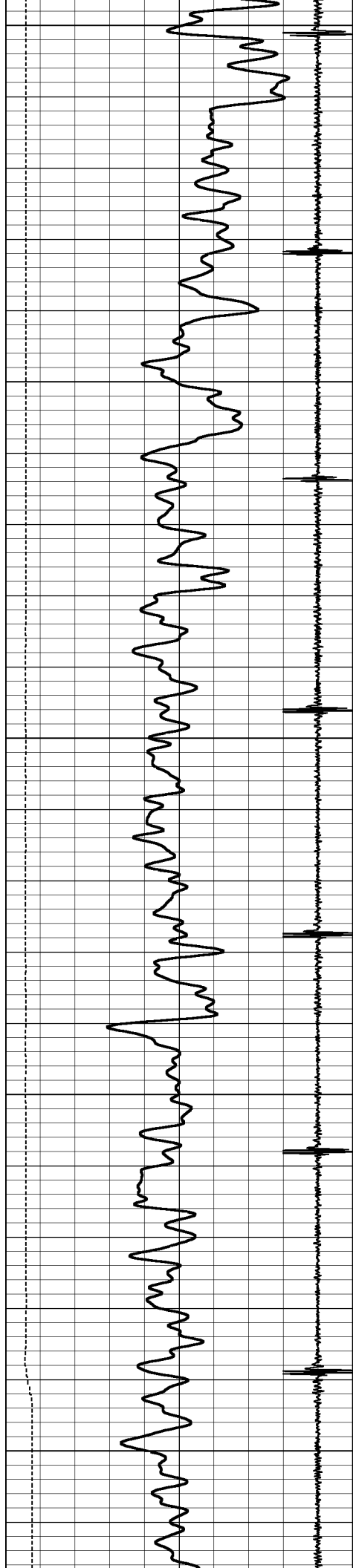
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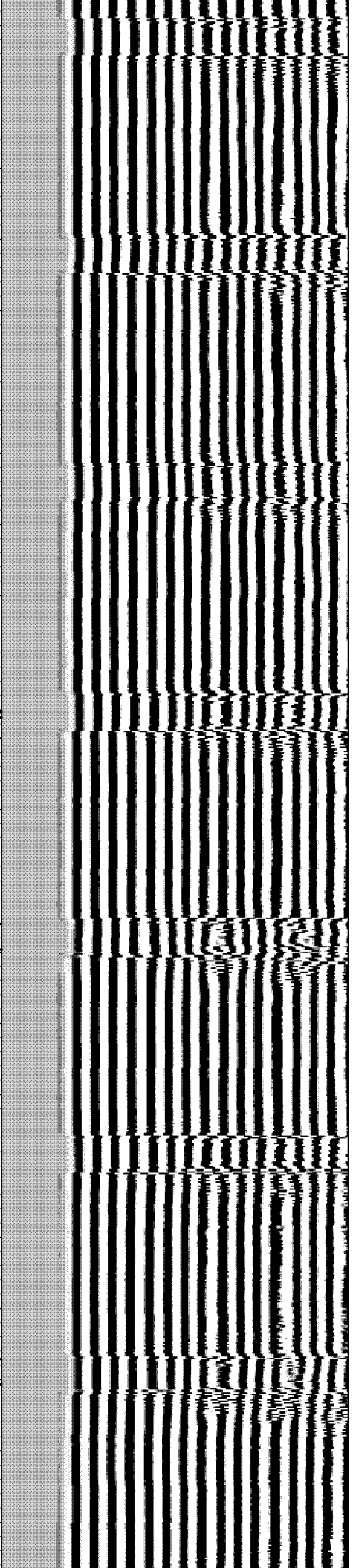
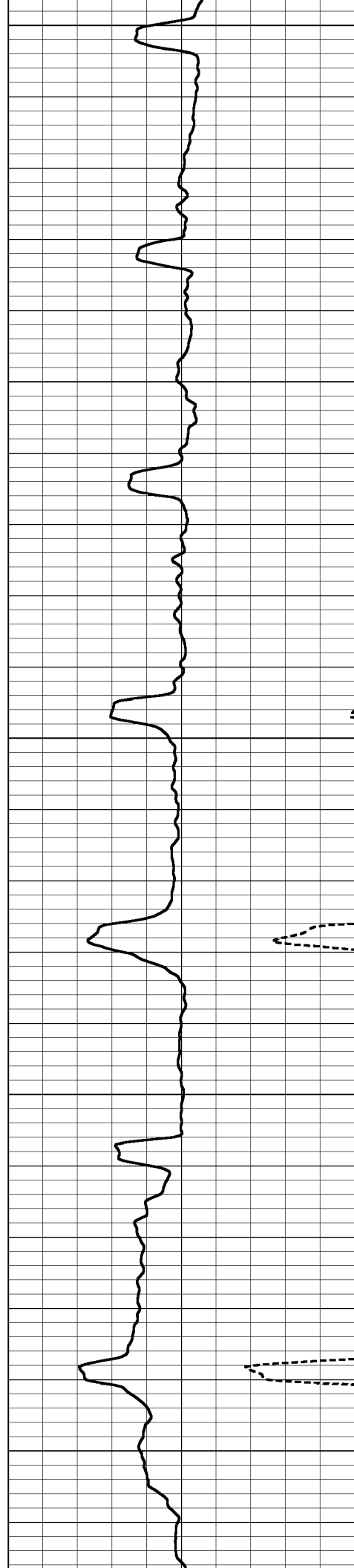
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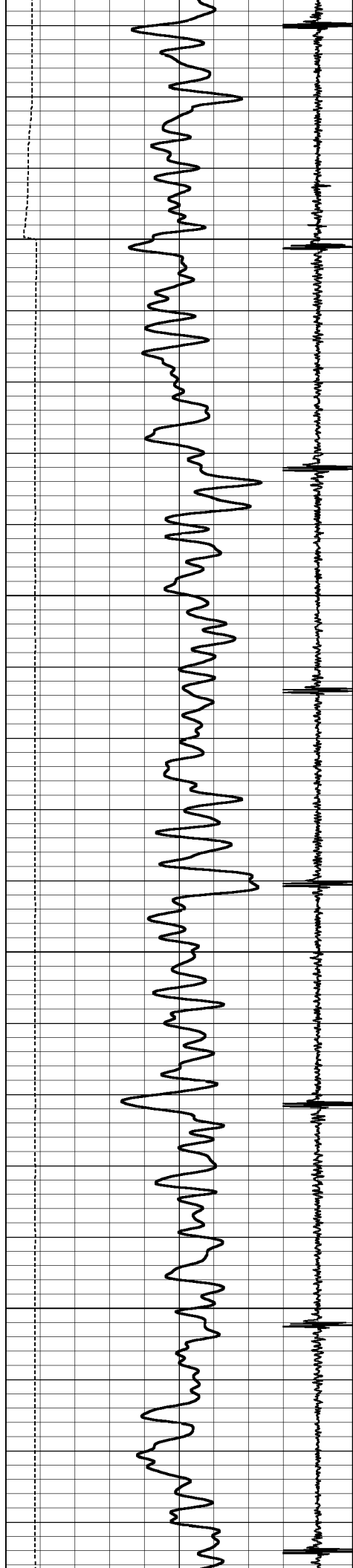
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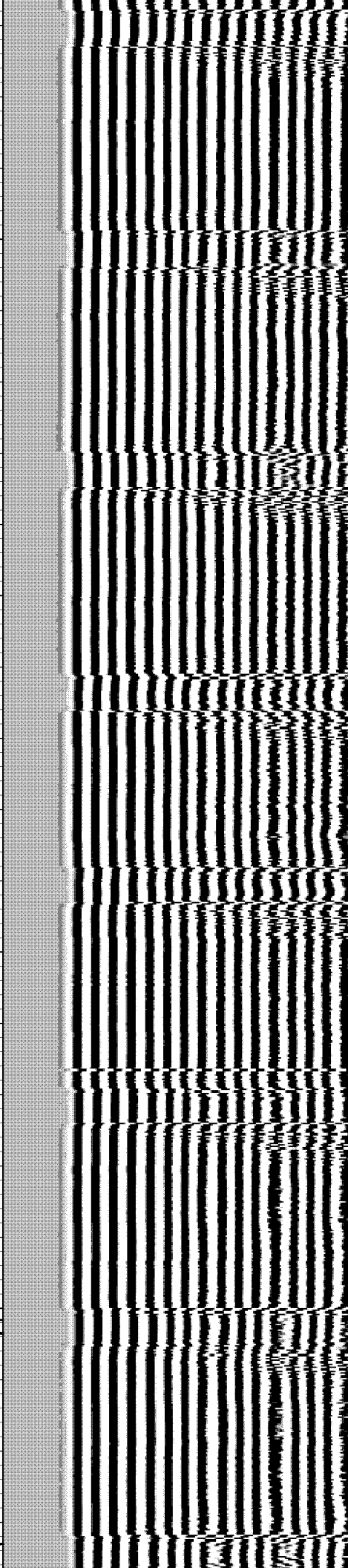
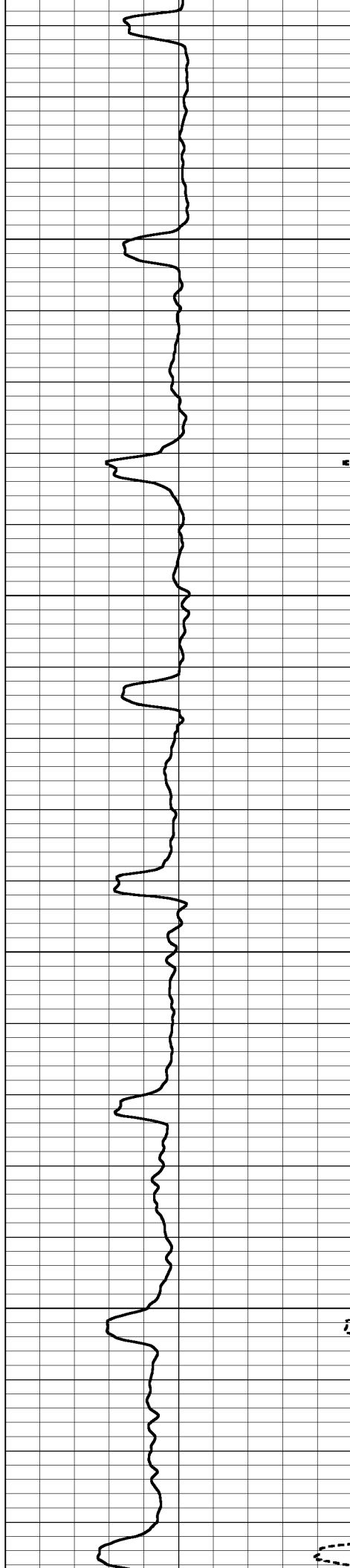


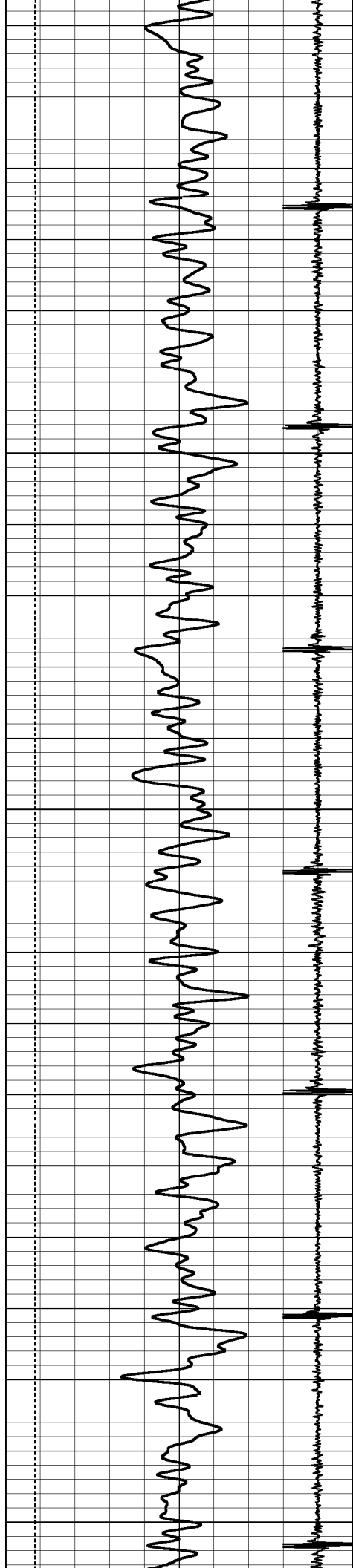
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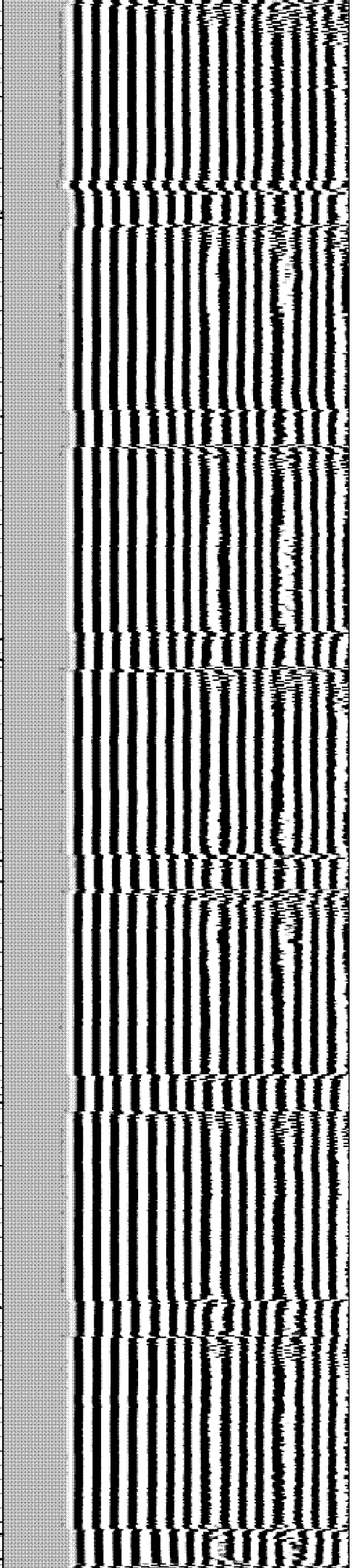
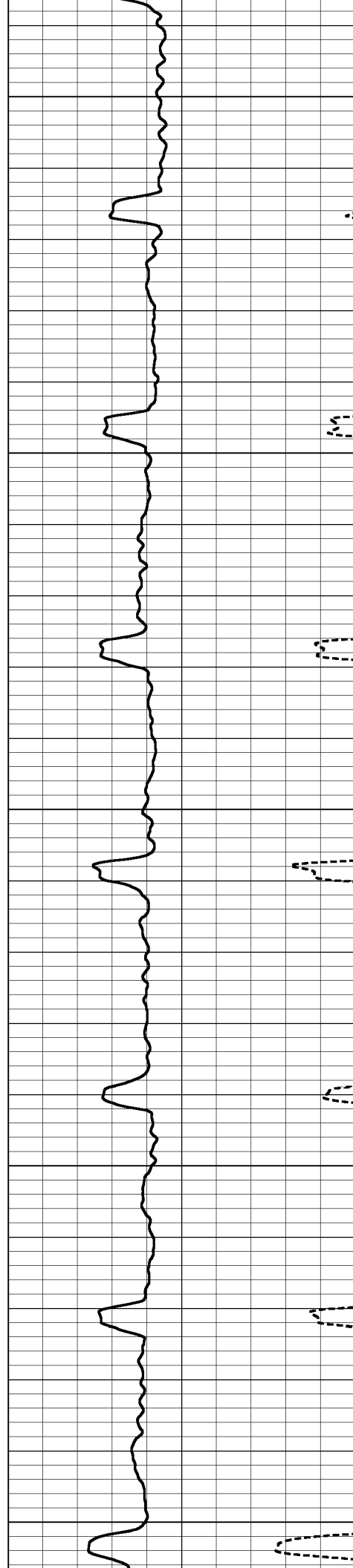
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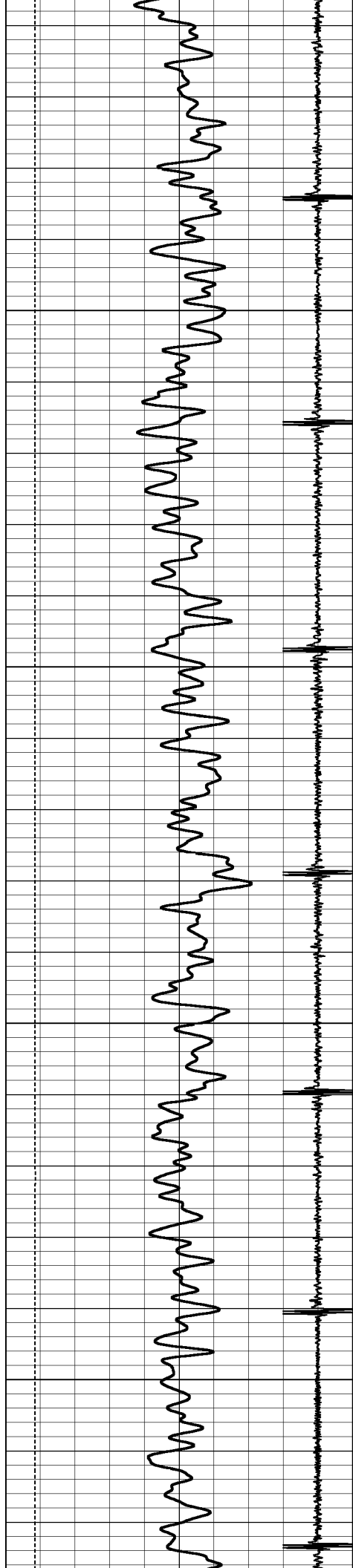
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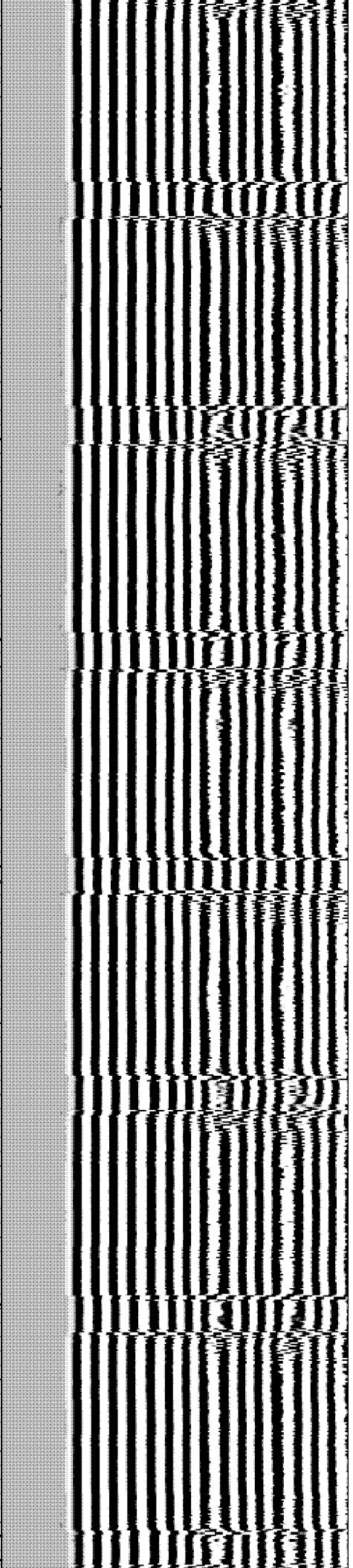
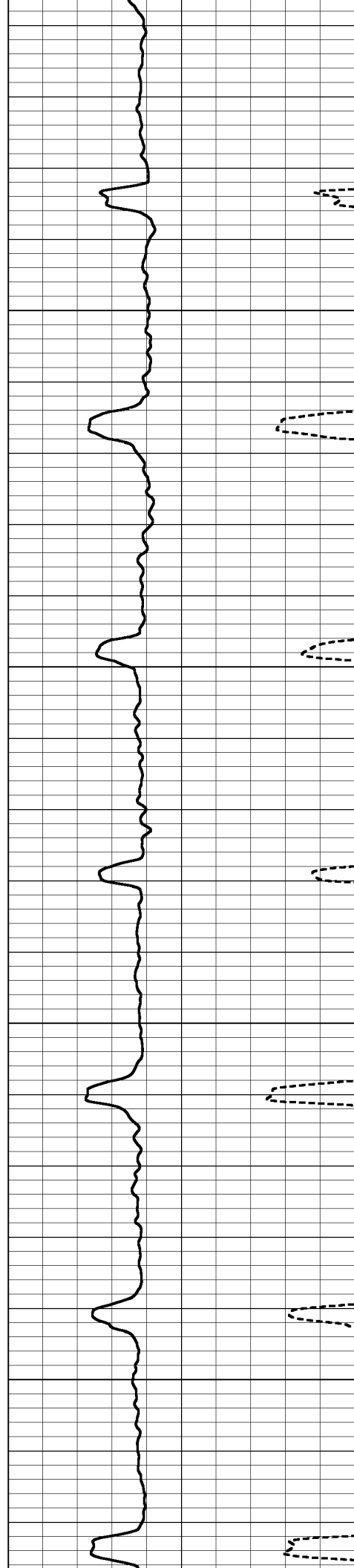


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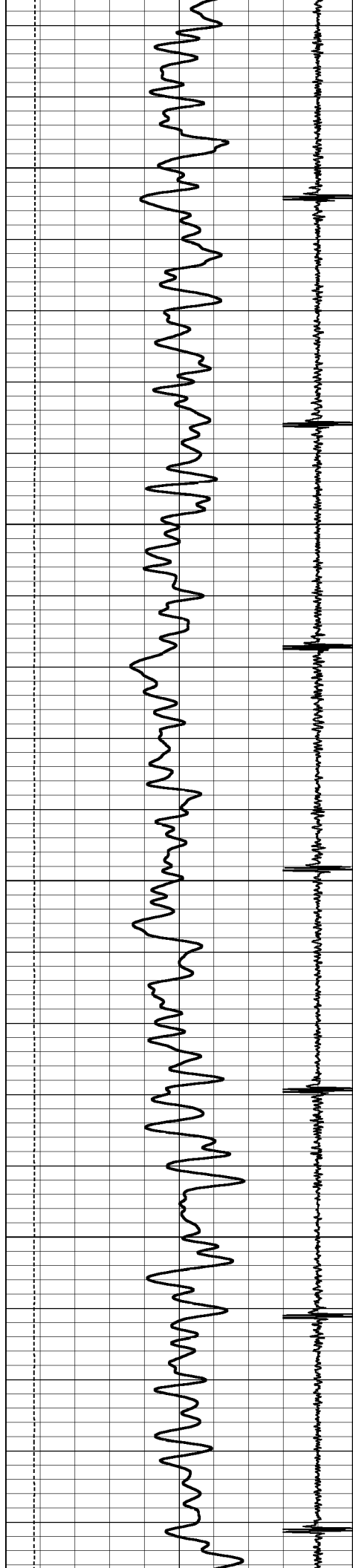
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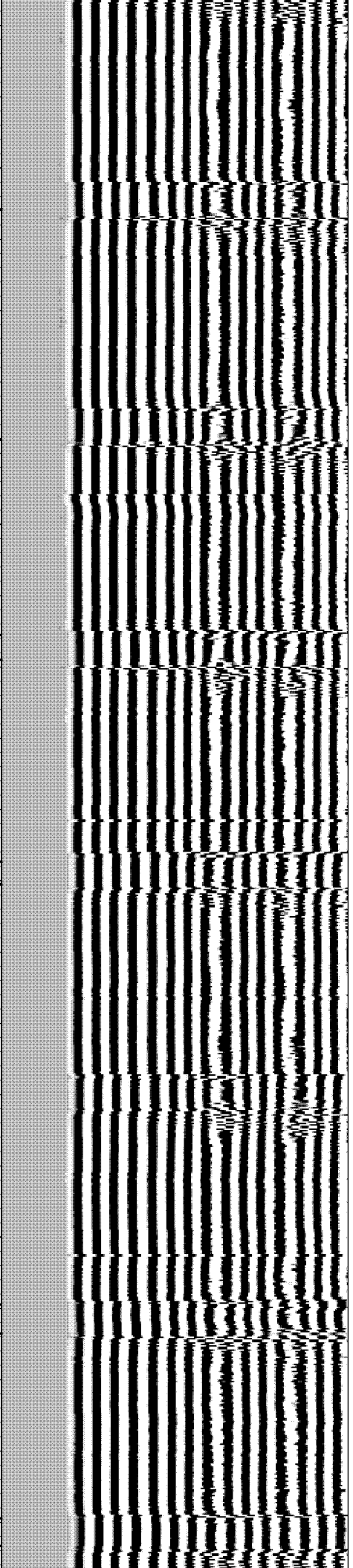
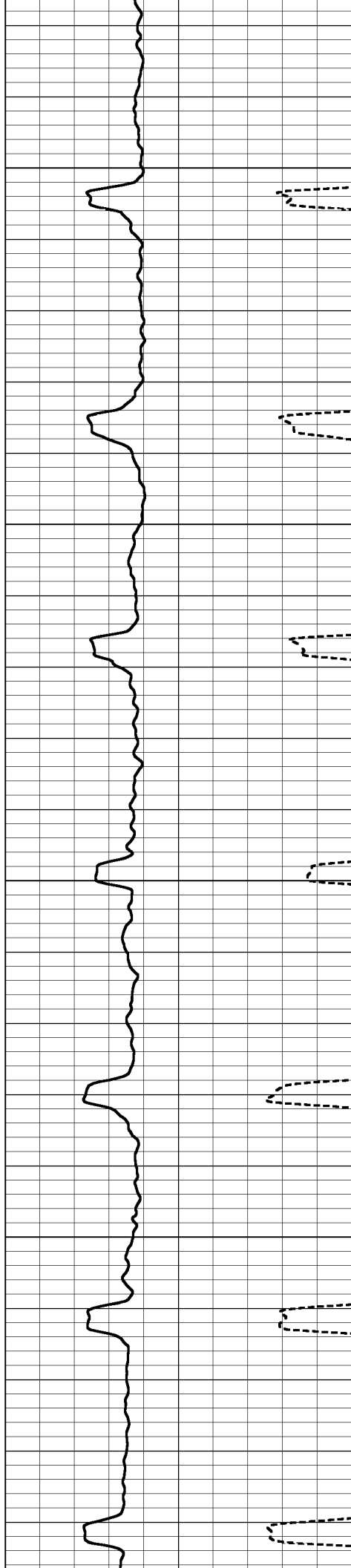


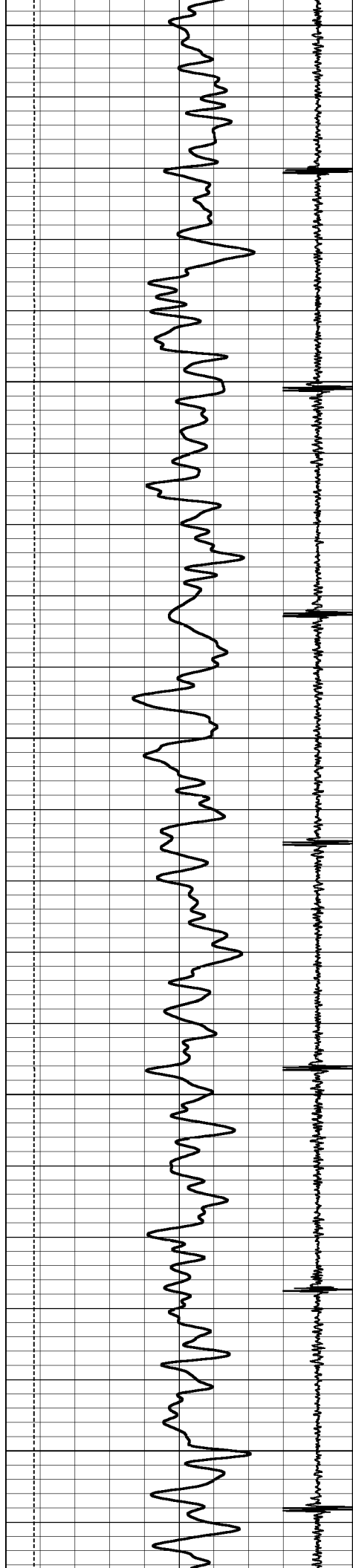
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5950

6000

6050





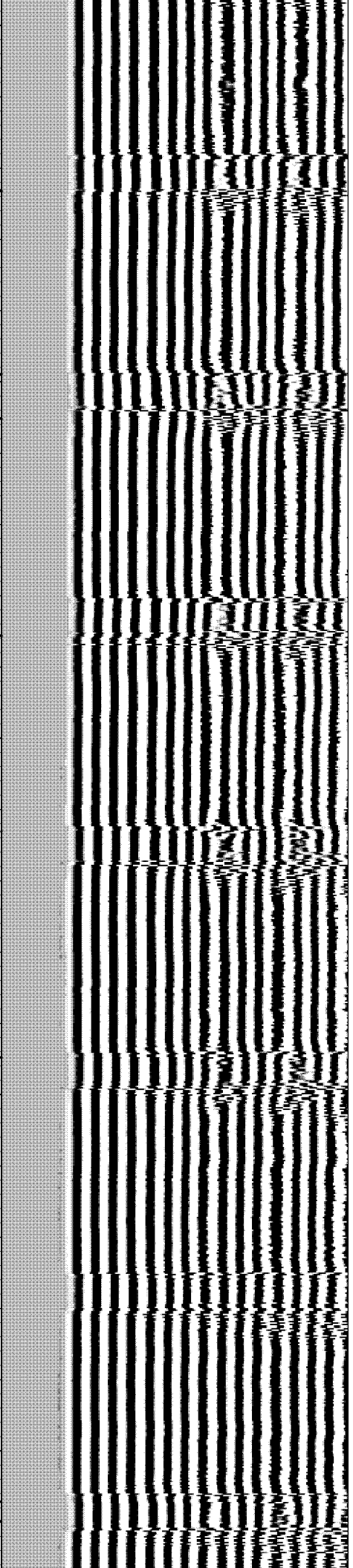
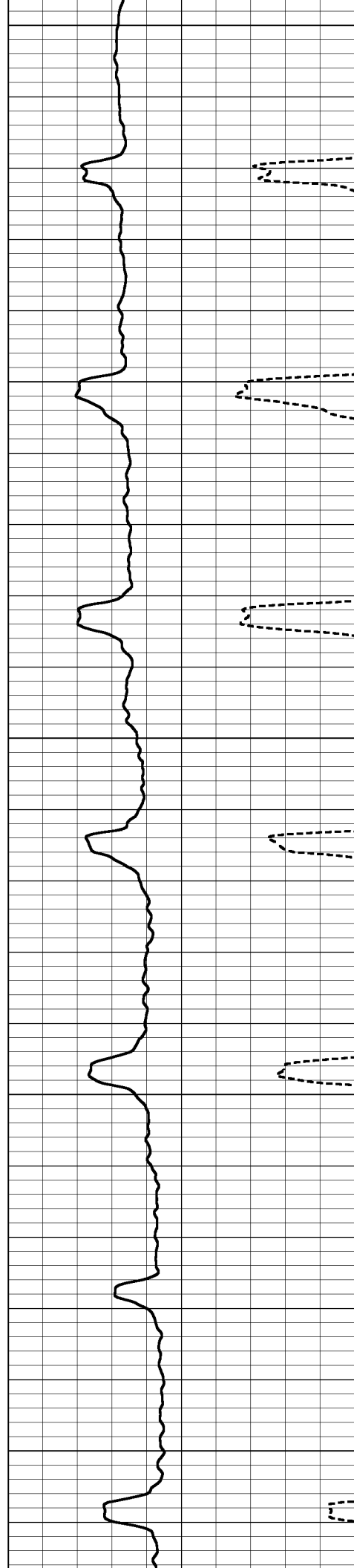
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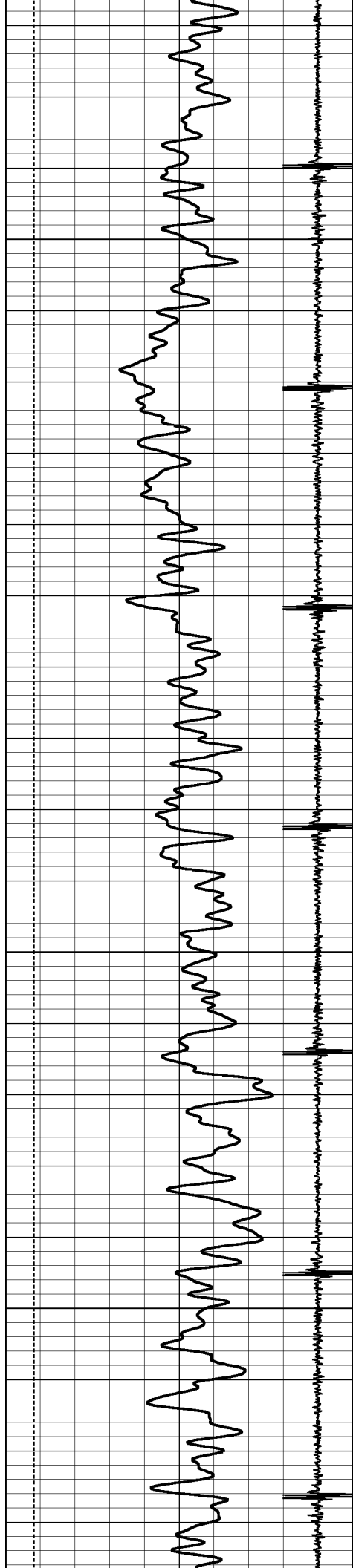
6150

6200

6250

6300



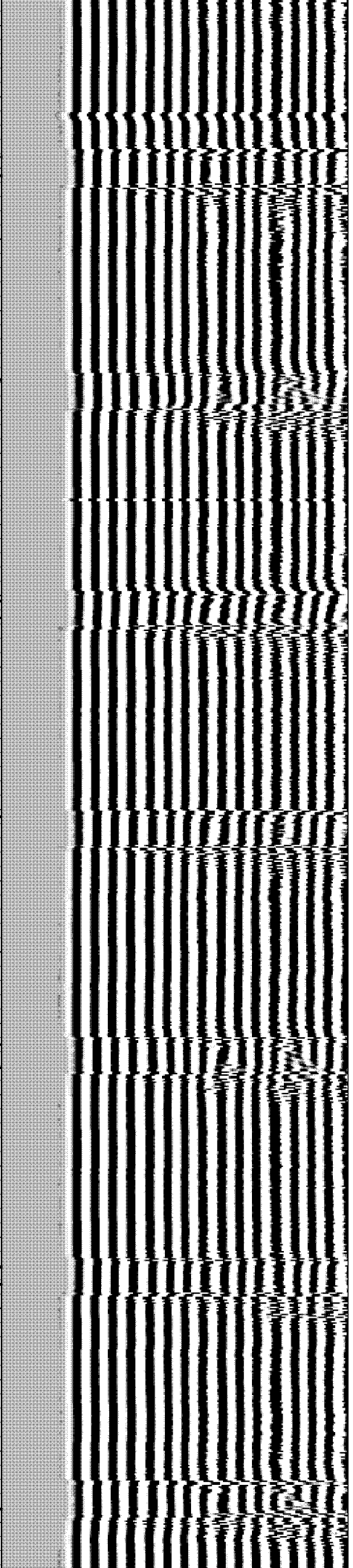
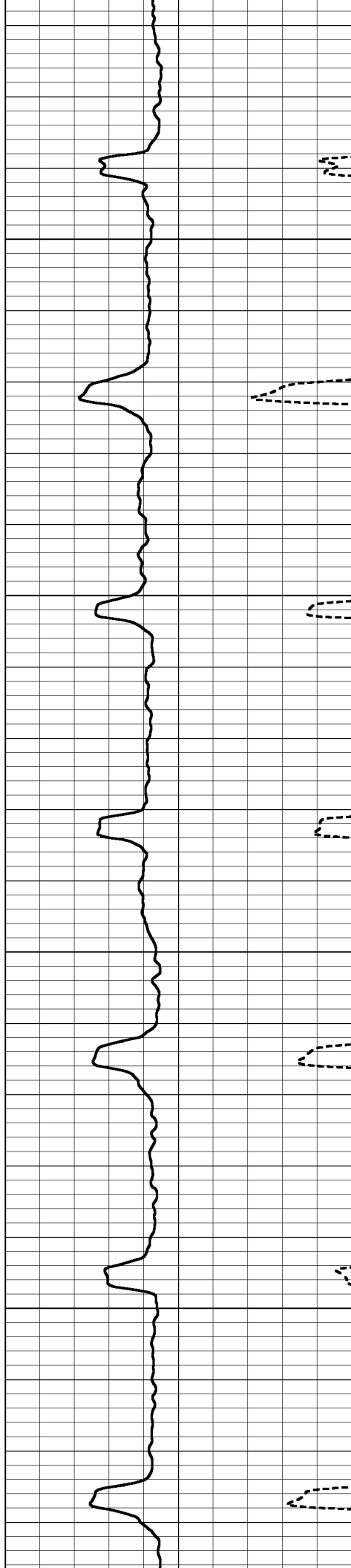


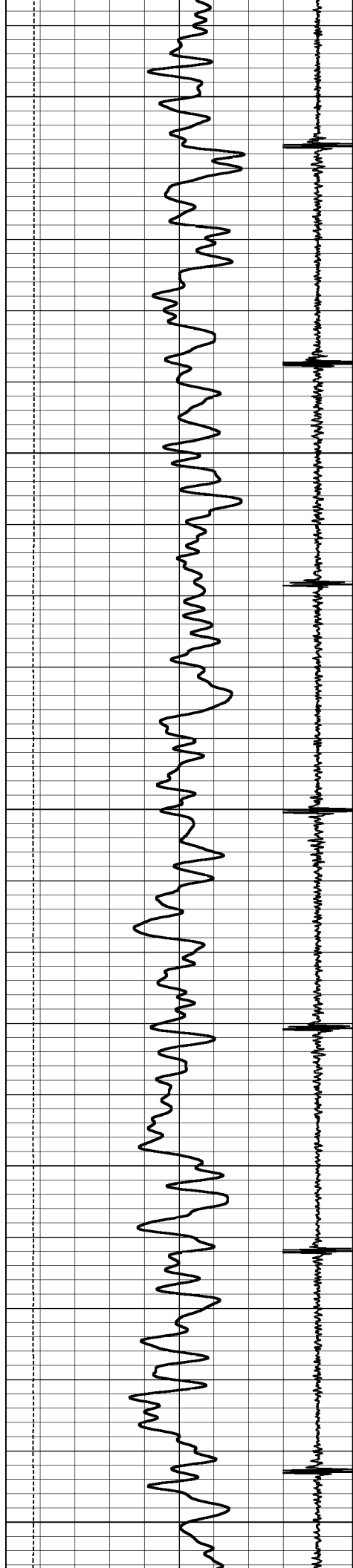
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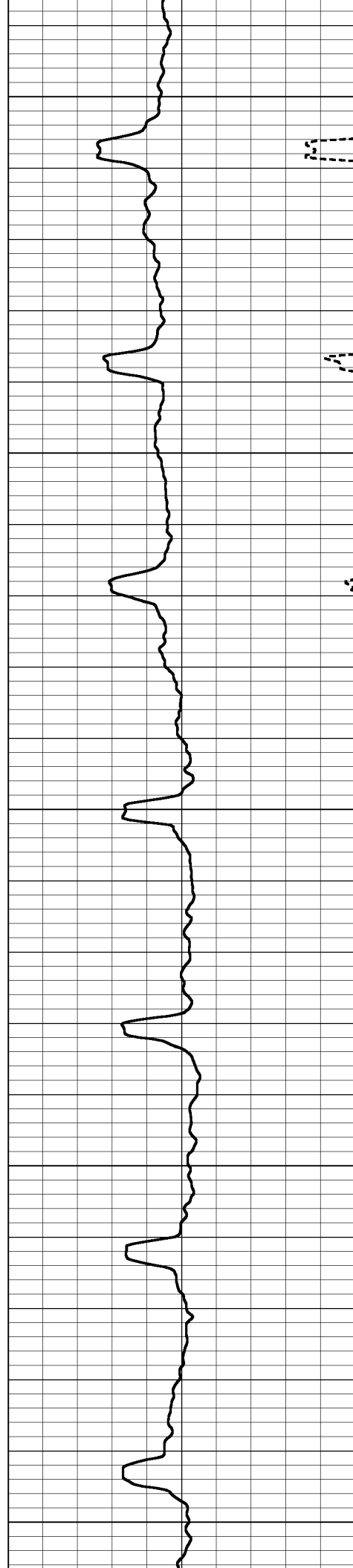
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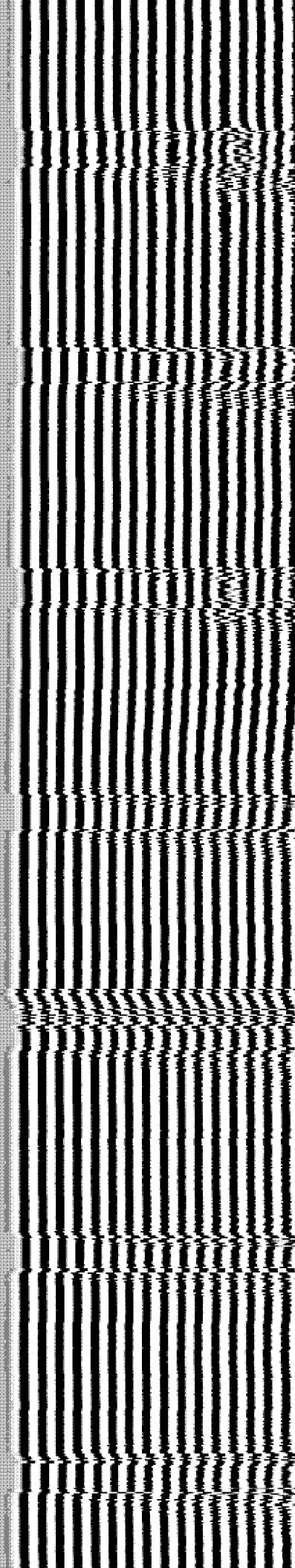
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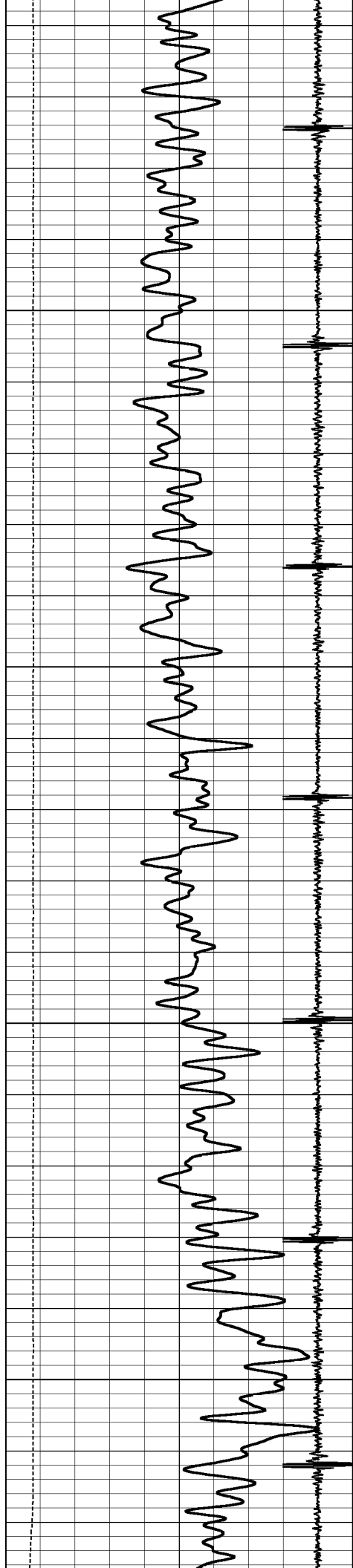


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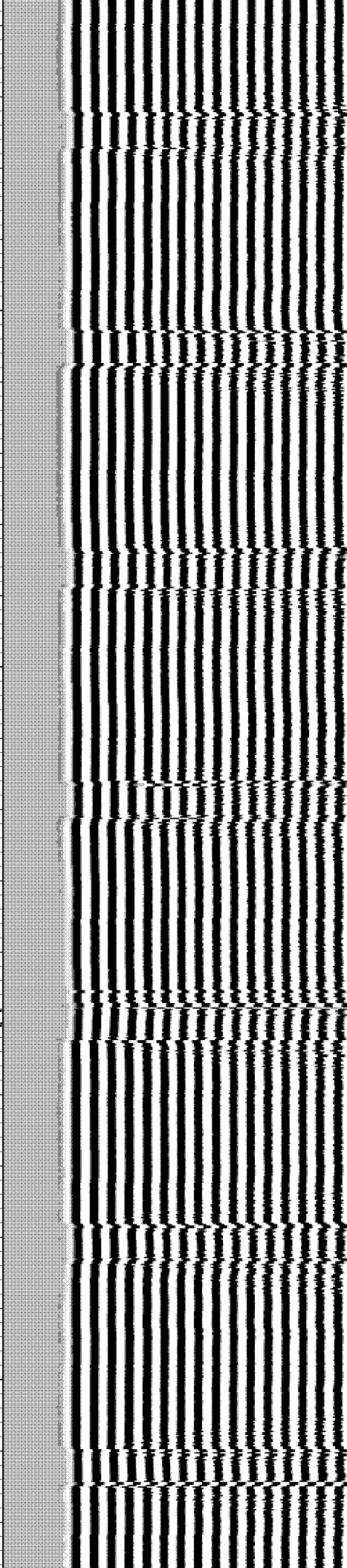
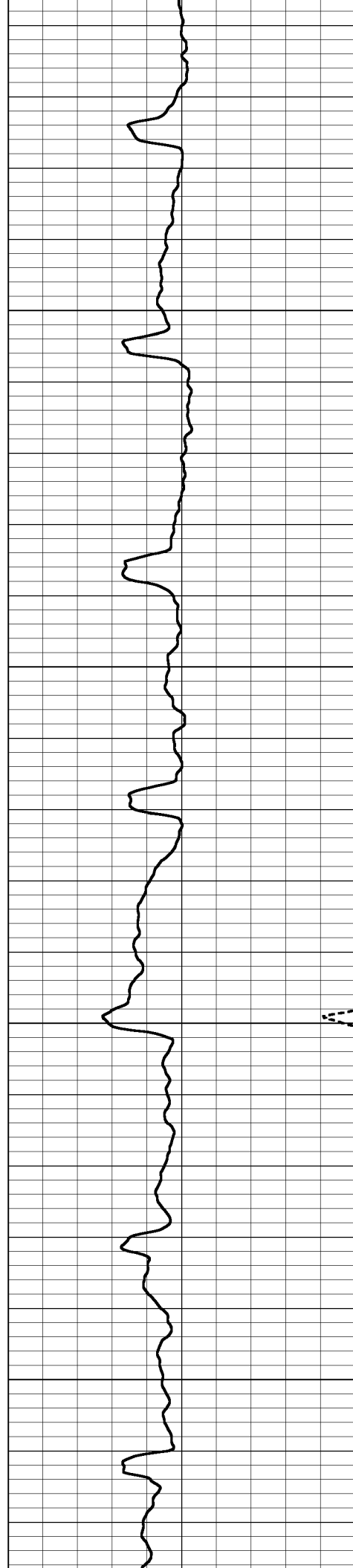


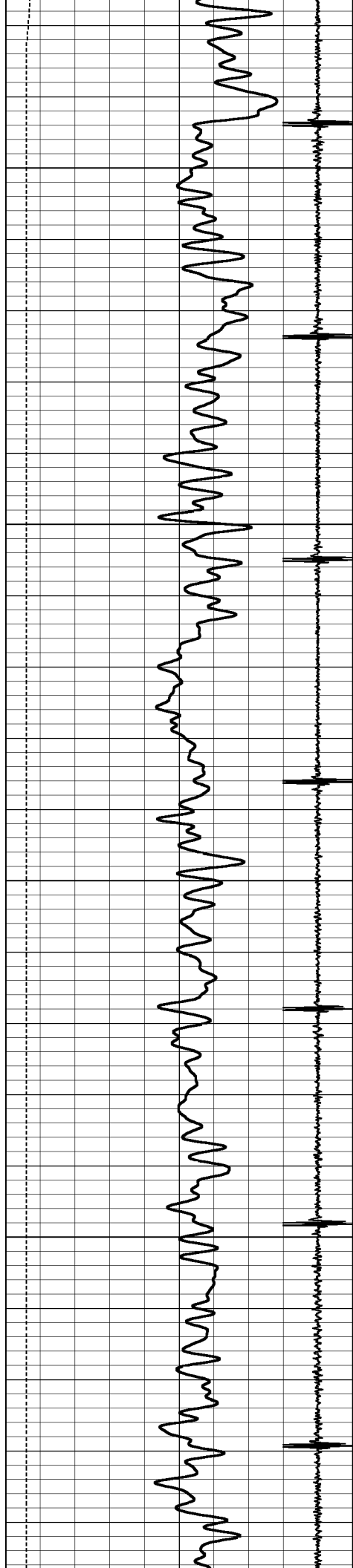
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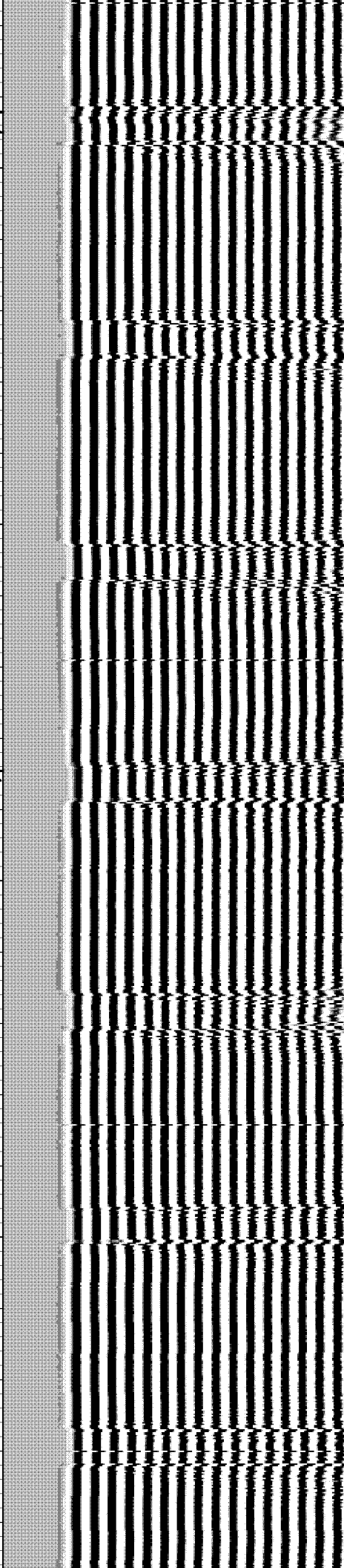
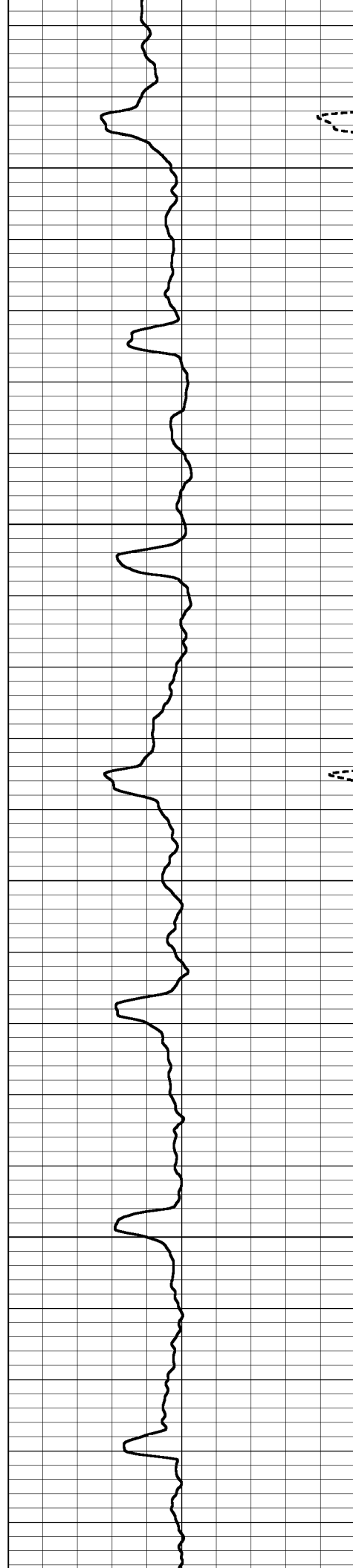


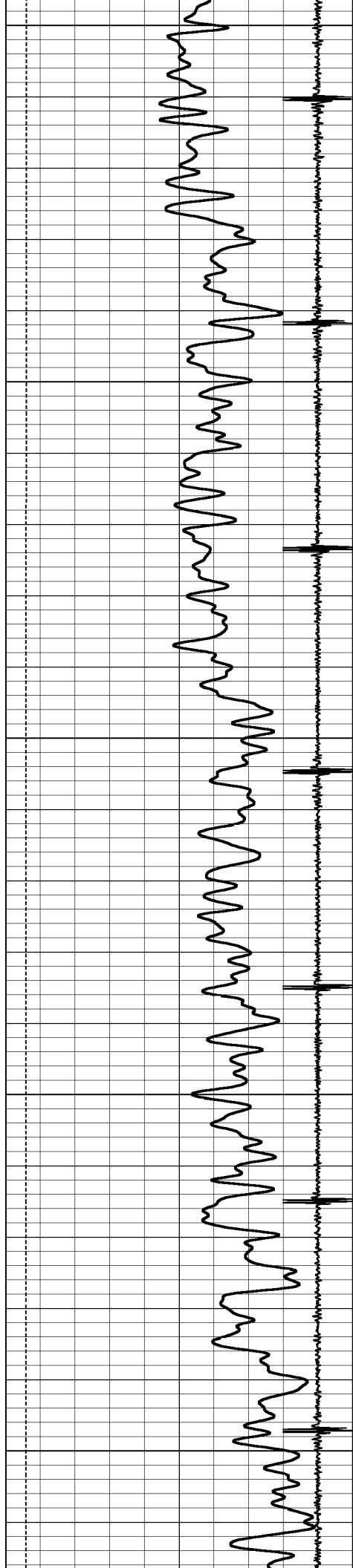
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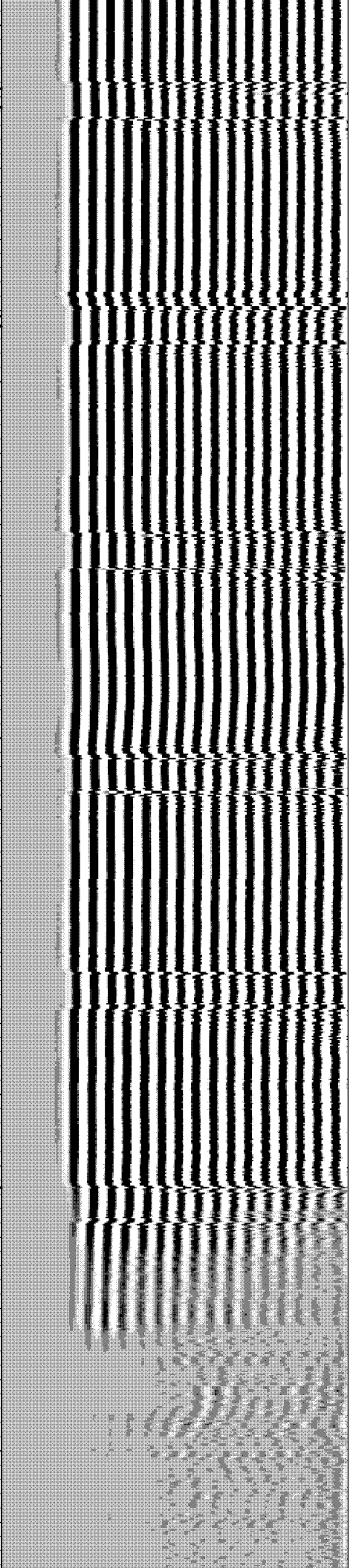
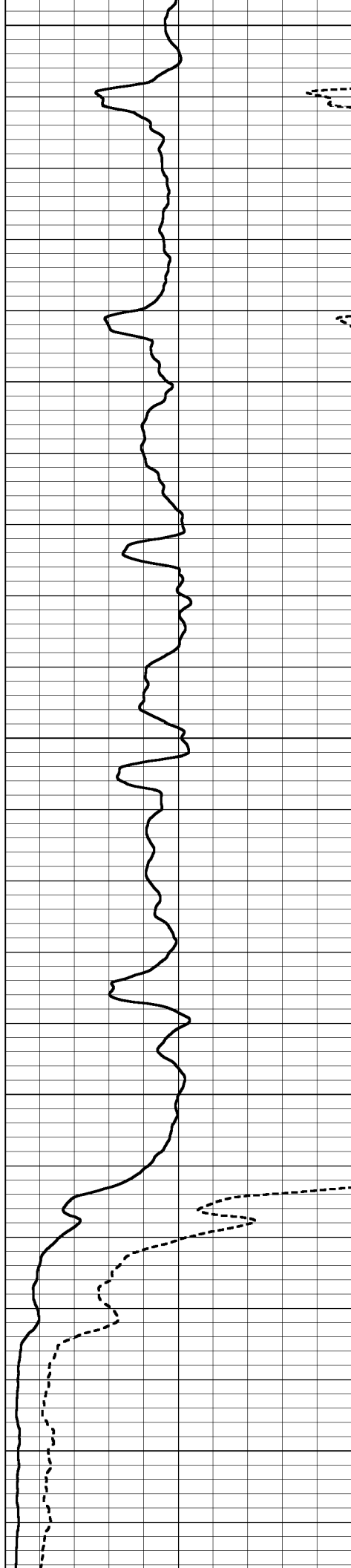
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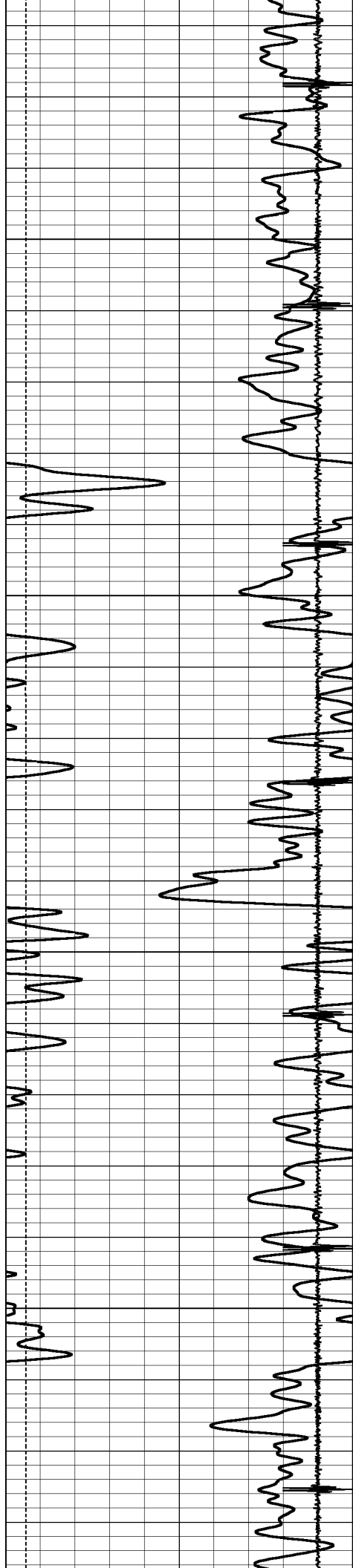
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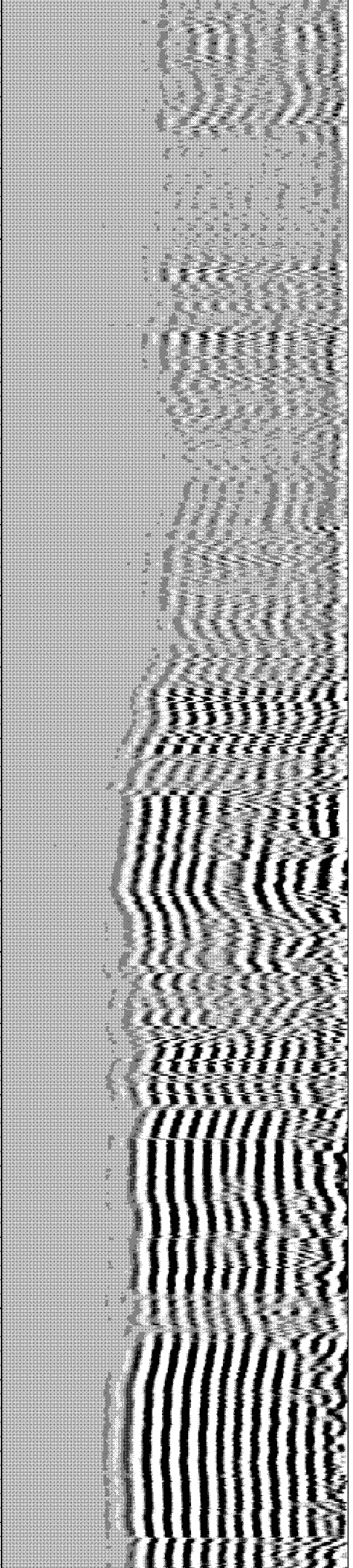
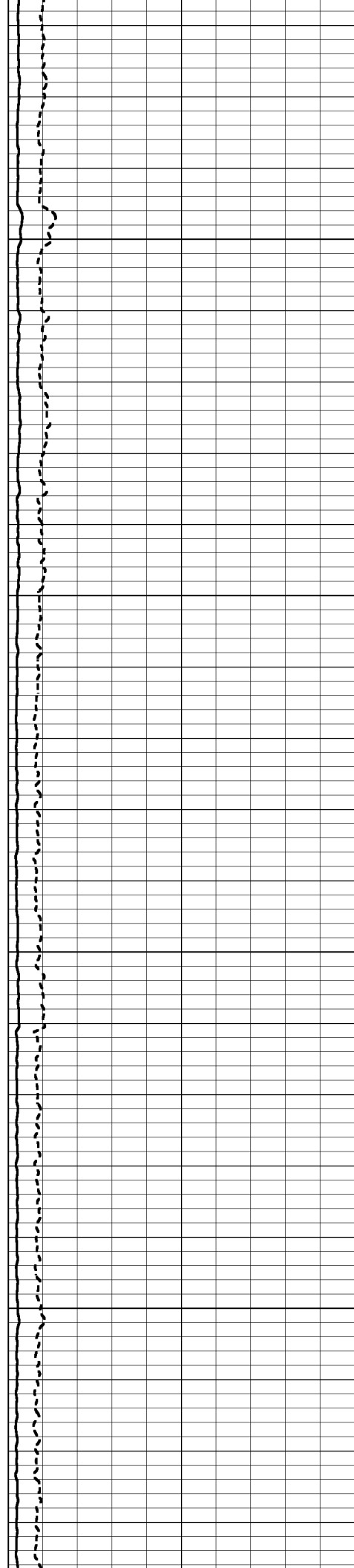


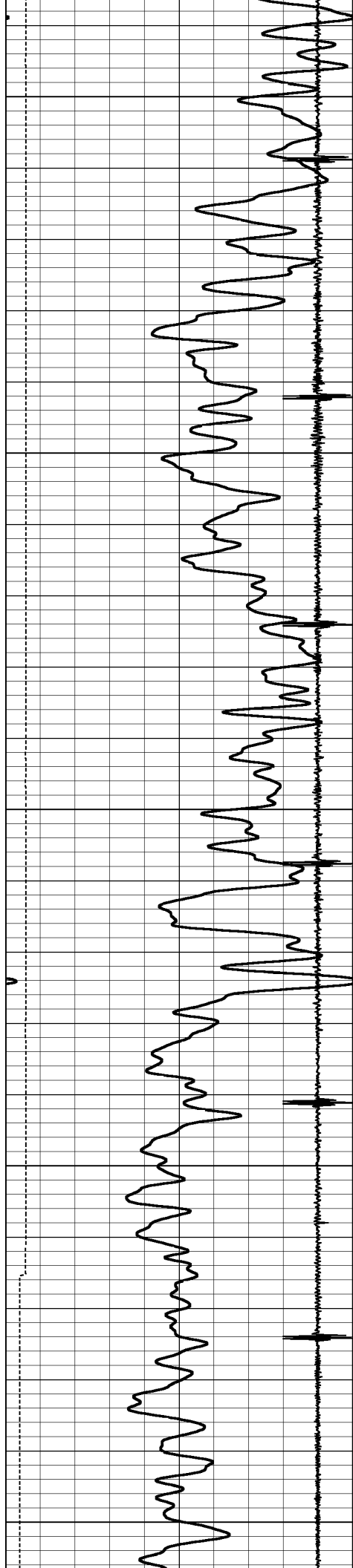
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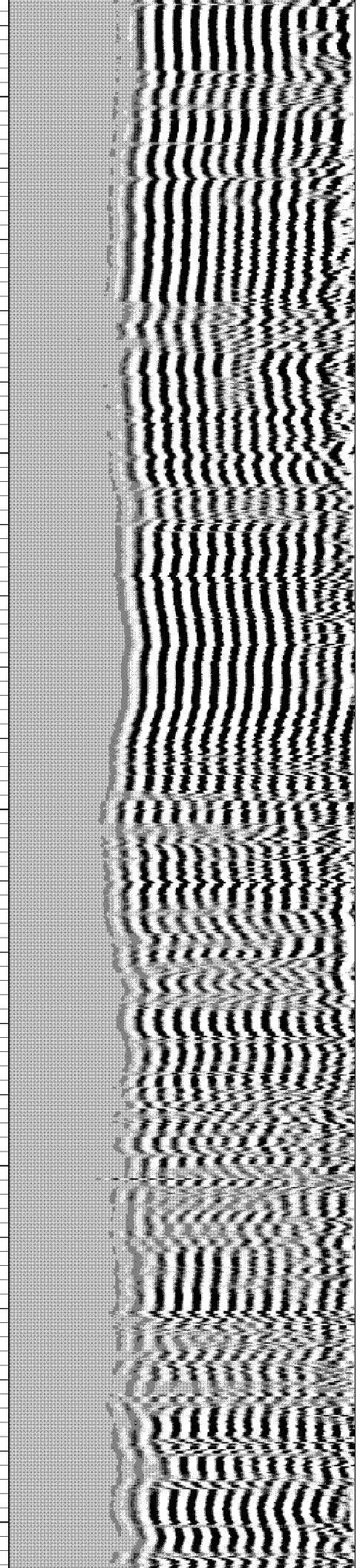
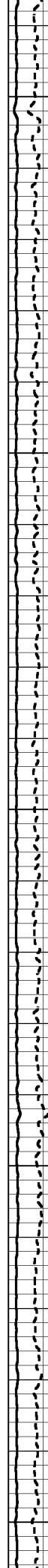
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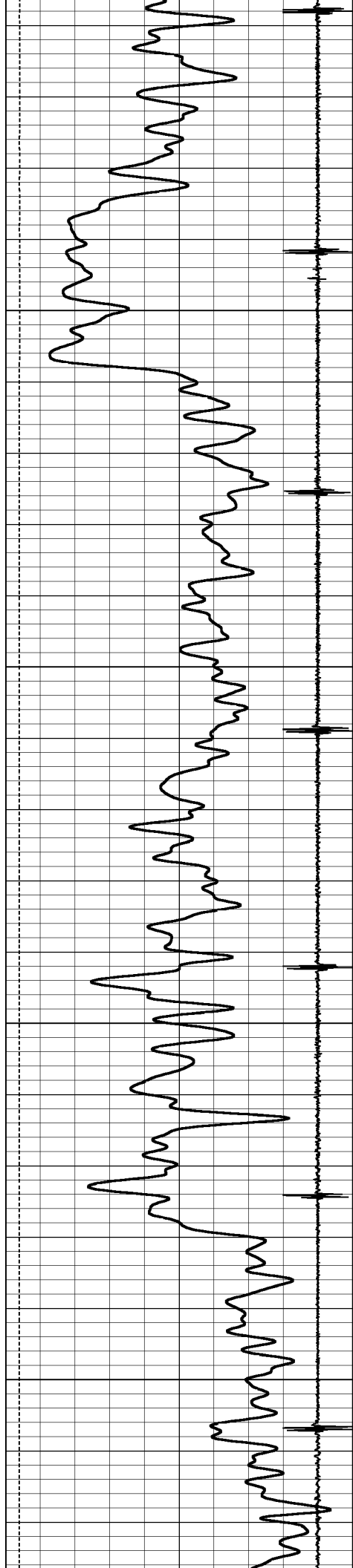
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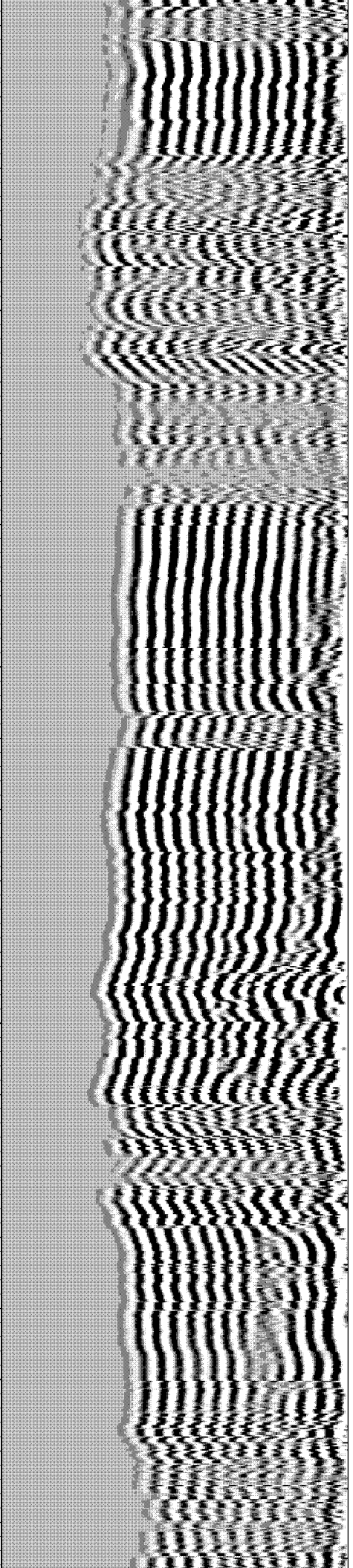
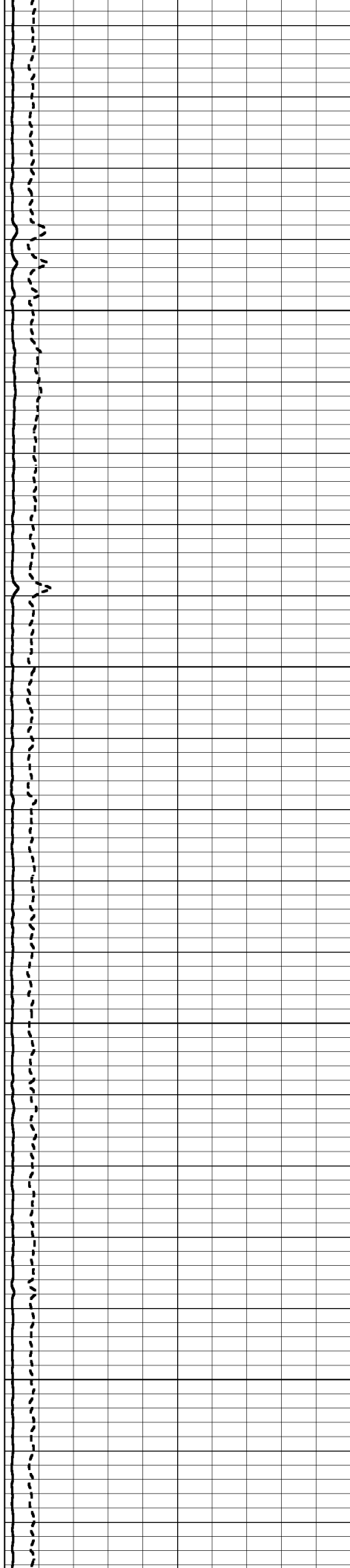


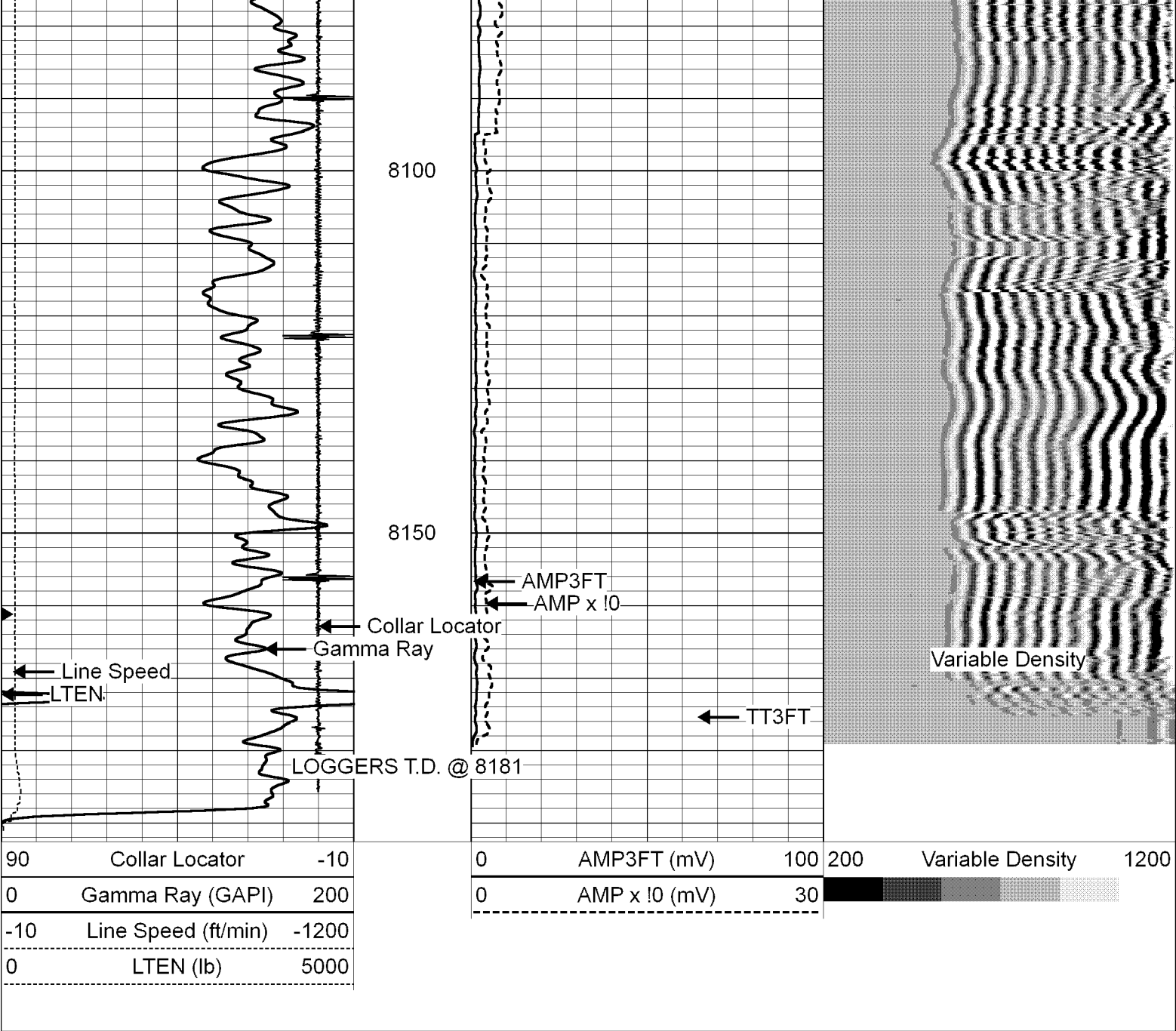
7900

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8000

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Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	23.25		CHD-STNDRD (GOI) Standard Cable Head	1.00	1.69	10.00
CENT	22.25		PTS275	2.83	2.75	

Tool Joint Location	Tool Joint Depth (ft)	Tool Joint Description	Length (ft)	Weight (lb)	O.D. (in)
WVF3FT	14.50	CBL-Digital (080430) Probe 275 CBL Standard	9.17	2.75	100.00
WVF5FT	13.50				
WVFSYNC CENT	10.25 10.25				
GR	7.42	PTS275	2.83	2.75	
CCL	6.47				
GR	3.73	GR-Probe (080222) Probe 2.75" 4 Channel Pulse	4.58	2.75	30.00
CENT	2.83	PTS275	2.83	2.75	

Dataset: dahlinger\_e\_unit1\_crimsonexp.db: field/well/run1/pass1

Total Length: 23.25 ft

Total Weight: 140.00 lb

O.D. 2.75 in