

Company Bonanza Creek Energy			
Well	Pronghorn 21-24-22HNB		
Field	Wattenberg		
County	Weld	State	Colo.
Company Bonanza Creek Energy		Location: API # : 05123395450000	
Well Pronghorn 21-24-22HNB		Other Services	
Field Wattenberg		NONE	
County Weld		State Colo.	
SEC 22 TWP 5n RGE 61w			
Permanent Datum	GL	Elevation	4661'
Log Measured From	KB		
Drilling Measured From	KB		
Date of Service	2-7-15		
Run Number	1		
Depth Driller or PBTD	6520'		
Depth Logger	6251'		
Bottom Log Interval	6239'		
Top Log Interval	surface		
Open Hole Size	na		
Type Fluid	water		
Fluid Level	surface		
Fluid Density	na		
Max. Recorded Temperature	221		
Max. Wellhead Pressure	0		
Wellhead Connection	5k flange		
Estimated Cement Top	surface		
Unit Number	96		
Wireline Size	1/4"		
Location	FLMorgan		
Recorded By	Nathan Bivens		
Witnessed By	Kurt Dodge		
Size		WMFt	Top
Tubing Record			Bottom
Surface Casing			
Production Casing		7"	26#
Liner Record			surface
			6520'

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services will 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 Pioneer Wireline Services's general terms and conditions set out in our current Price Schedule.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
S.O. # 2-220113

THANK YOU FOR USING PIONEER WIRELINE SERVICES

Your Pioneer Wireline Services Crew	Tool Data - Services	Serial Number
Engineer: N.Bivens Operator: W.Brigante Operator: T.Krien Operator: M.Ramirez		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVF3FT	13.18		RBT-Probe (4.5040904) Prototype Probe Radii Bond Tool with Digital Telemetry	8.88	2.75	90.00
WVFCAL	13.18					
WVFS1	13.18					
WVFS2	13.18					
WVFS3	13.18					
WVFS4	13.18					
WVFS5	13.18					
WVFS6	13.18					
WVFS7	13.18					
WVFS8	13.18					
WVF5FT	12.18					
			PTS275	2.83	2.75	
CCL	5.18					
GR	3.85		GR-Probe275 (030606)	4.54	2.75	57.00
			TEMP-Probe (P071024) Probe temp tool	1.55	1.69	5.00
TEMP	0.01					

Calibration Report

Database File: 05123395450000_pronghorn_21_24_22hnb_cbl.db
 Dataset Pathname: pass4
 Dataset Creation: Sat Feb 07 10:14:19 2015 by Log 7.0 B1

Temperature Calibration Report

Serial Number: P071024
 Tool Model: Probe
 Performed: Mon Jan 19 07:10:38 2015

	Reference	Reading
Low Reference:	56.00 degF	596.24 cps
High Reference:	100.00 degF	1200.00cps
Gain:	0.07	
Offset:	10.96	
Delta Spacing	1	

Gamma Ray Calibration Report

Serial Number: 030606
 Tool Model: Probe275
 Performed: Thu Jul 03 10:46:52 2014

Calibrator Value:	138.0	GAPI
Background Reading:	35.9	cps
Calibrator Reading:	244.8	cps
Sensitivity:	0.7607	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 4.5040904
 Tool Model: Probe

Calibration Casing Diameter:	7.000	in
Calibration Depth:	649.333	ft


Master Calibration, performed Sat Feb 07 09:48:57 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.019	0.751	1.000	62.165	63.590	0.500
CAL	-0.000	1.451				
5'	0.013	0.802	1.000	62.165	77.484	0.004
SUM						
S1	0.027	0.757	0.000	95.000	130.167	-3.545
S2	0.031	0.737	0.000	95.000	134.539	-4.213
S3	0.039	0.709	0.000	95.000	141.844	-5.596
S4	0.034	0.707	0.000	95.000	141.162	-4.813
S5	0.031	0.722	0.000	95.000	137.613	-4.297
S6	0.030	0.728	0.000	95.000	136.227	-4.152
S7	0.039	0.747	0.000	95.000	134.094	-5.218
S8	0.028	0.745	0.000	95.000	132.363	-3.656

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

	Raw (v)	Calibrated (v)	Results
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	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.000	1.451	1.000	0.000
Air Zero Calibration, performed Tue Jan 27 10:16:17 2015:						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	



PIONEER

Pioneer Energy Services

Main Pass

Database File: 05123395450000_pronghorn_21_24_22hnb_cbl.db

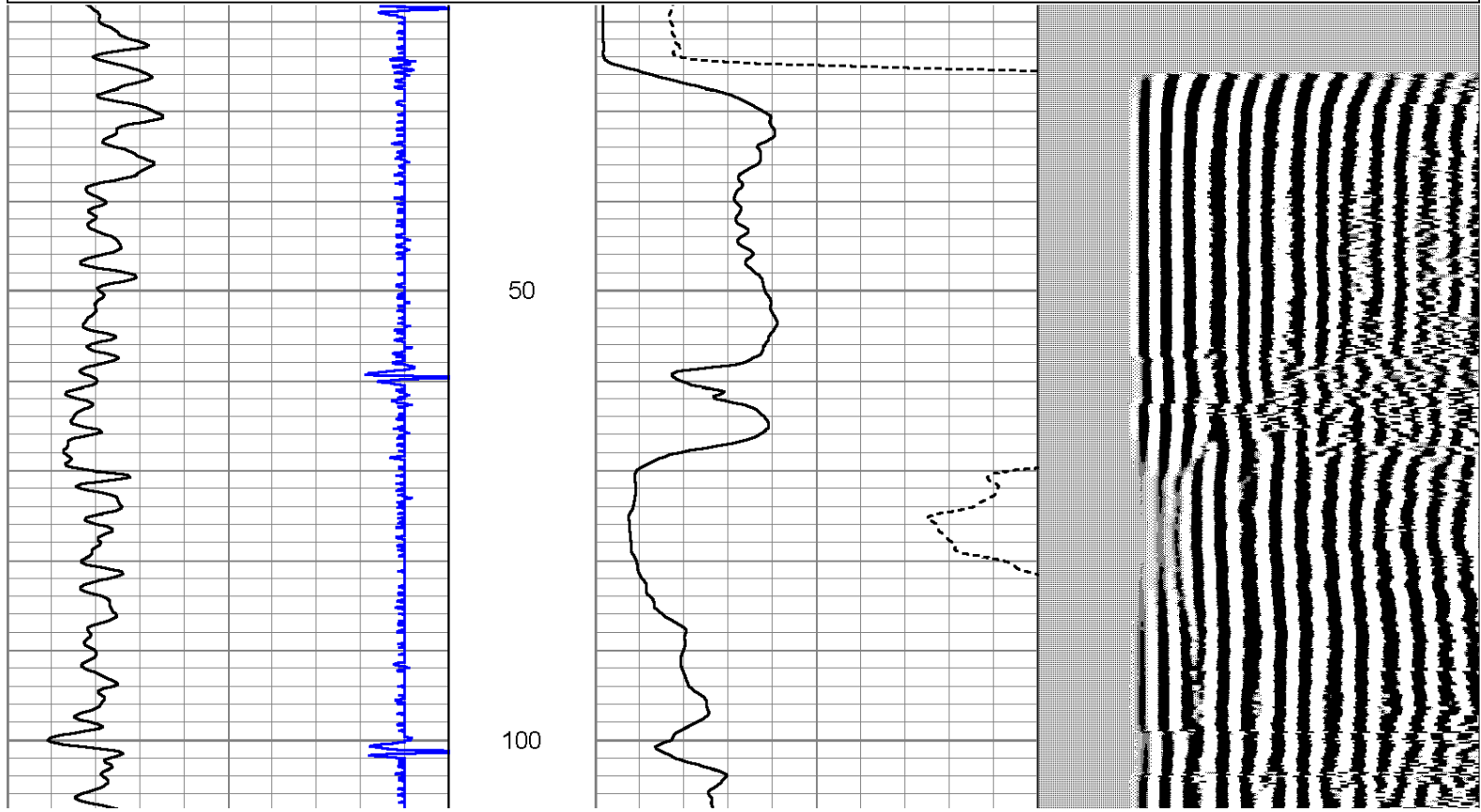
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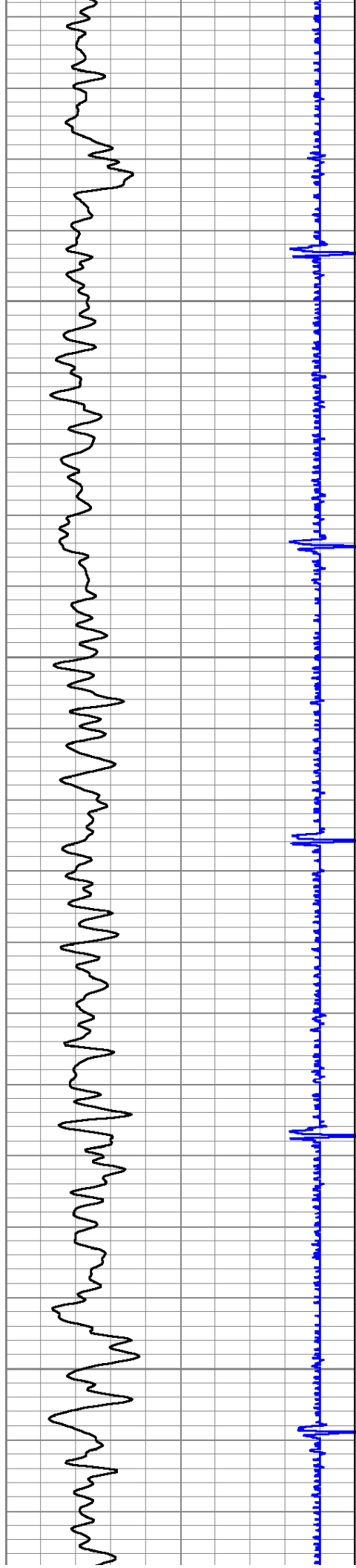
Presentation Format: cbl_drs

Dataset Creation: Sat Feb 07 10:14:19 2015 by Log 7.0 B1

Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	0	AMP AMPLITUDE (mV)	10	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	AMPLITUDE (mV)	100			



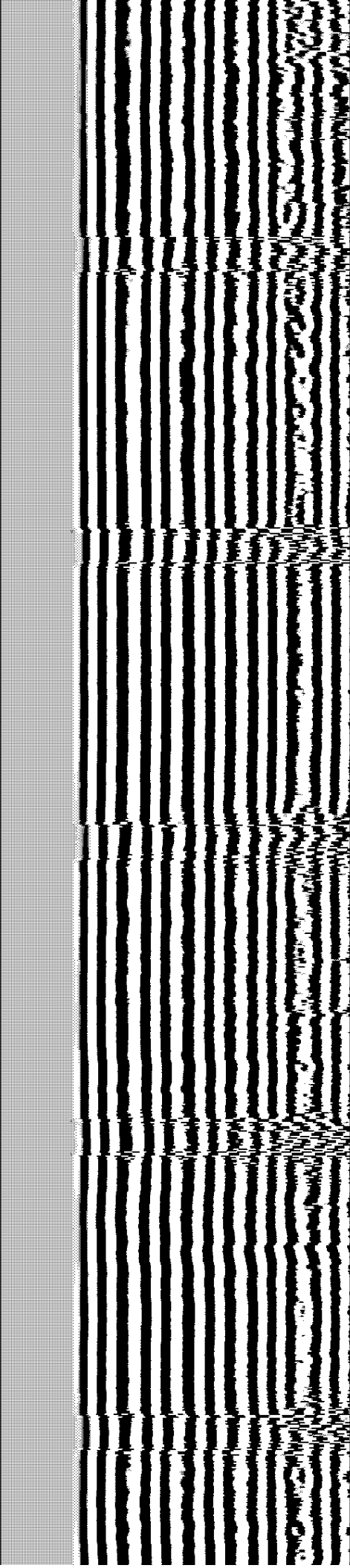
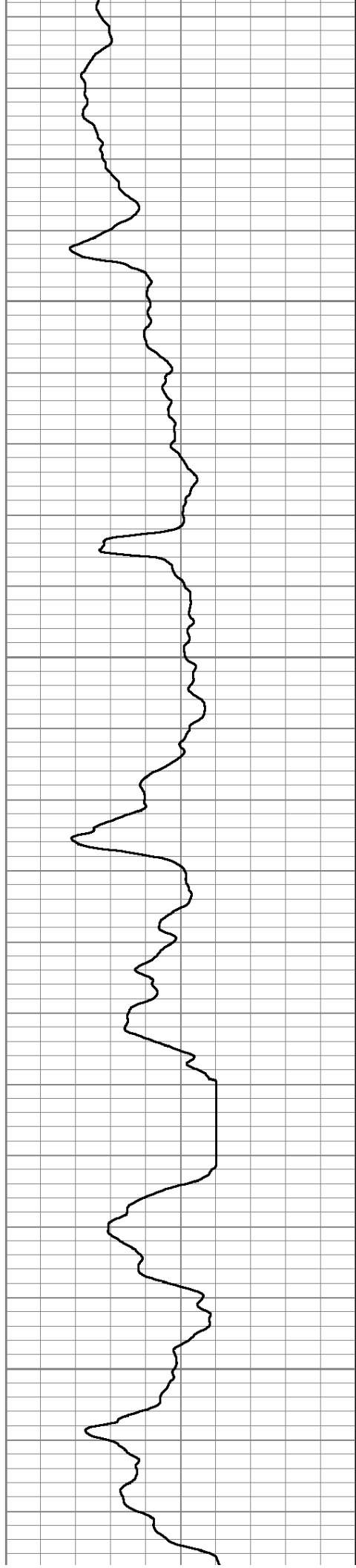


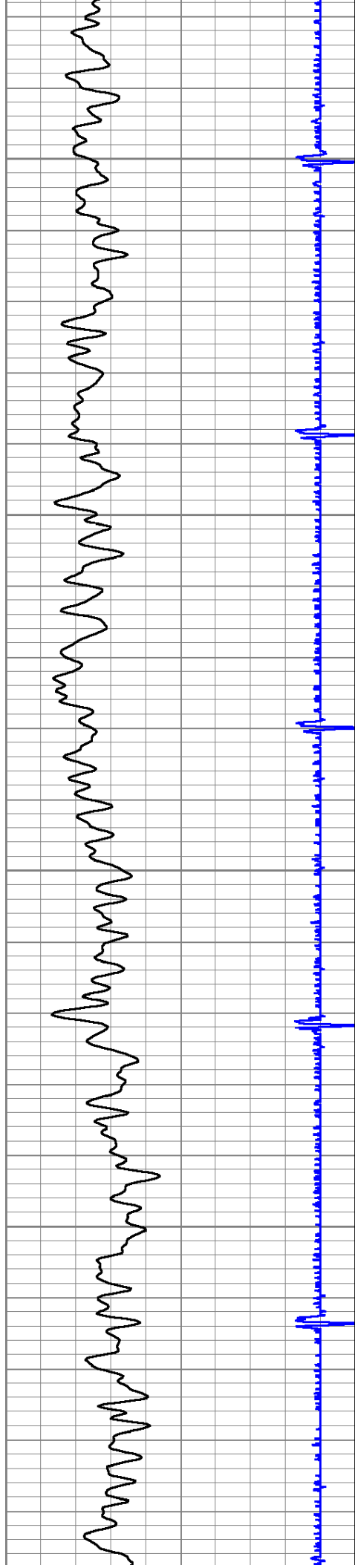
150

200

250

300



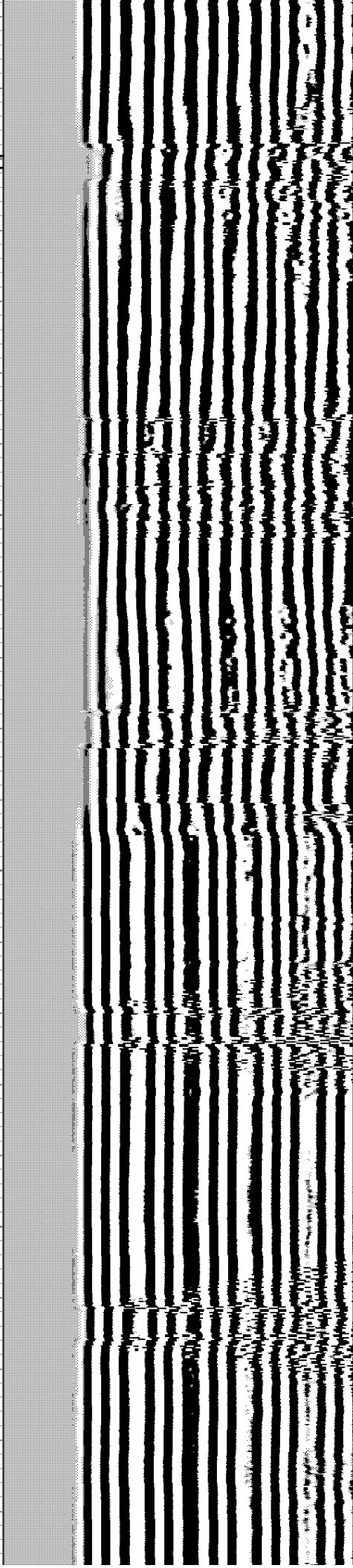
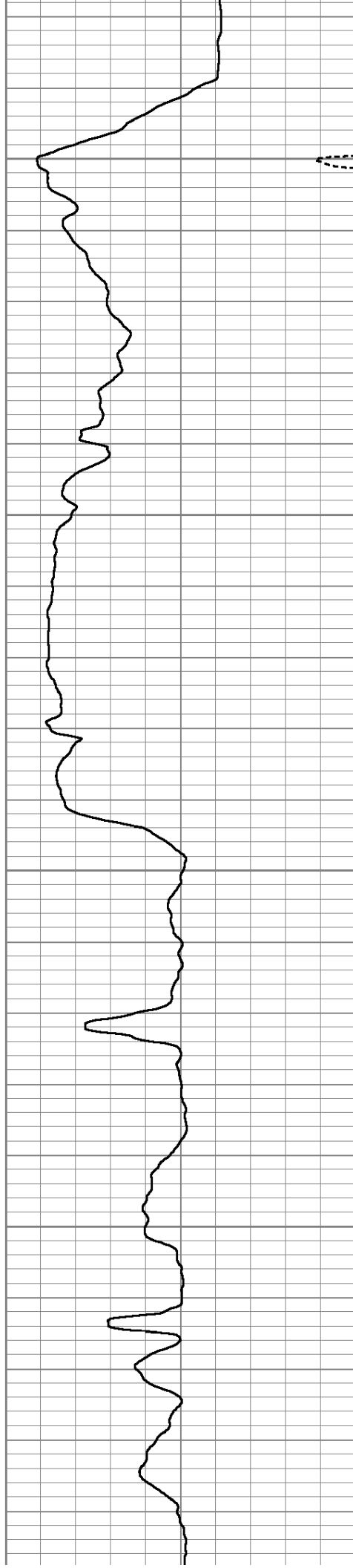


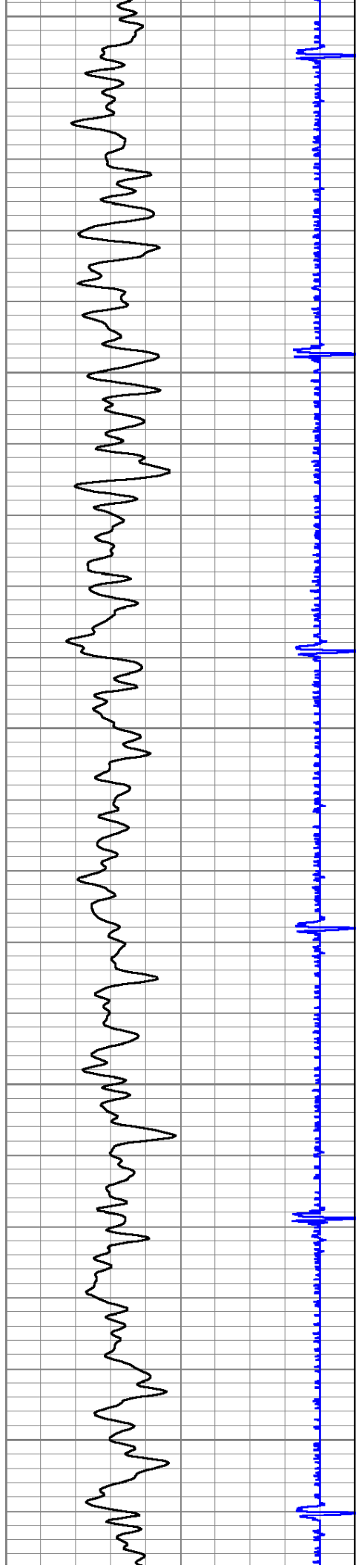
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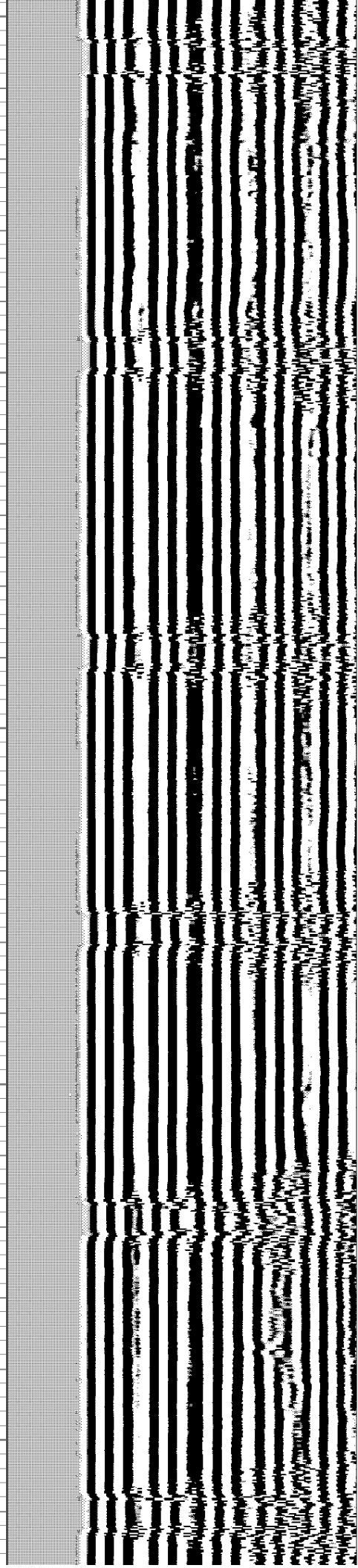
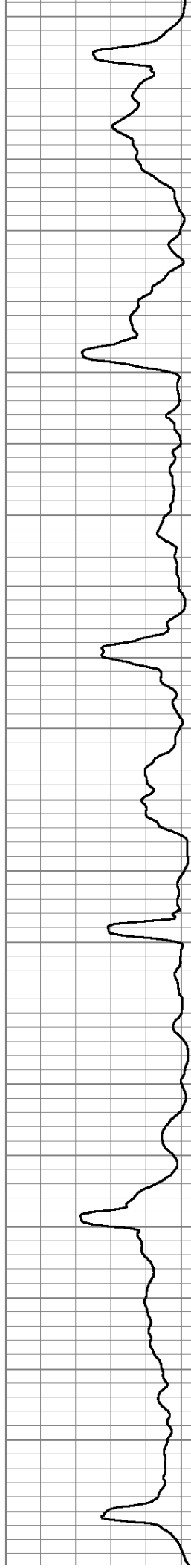
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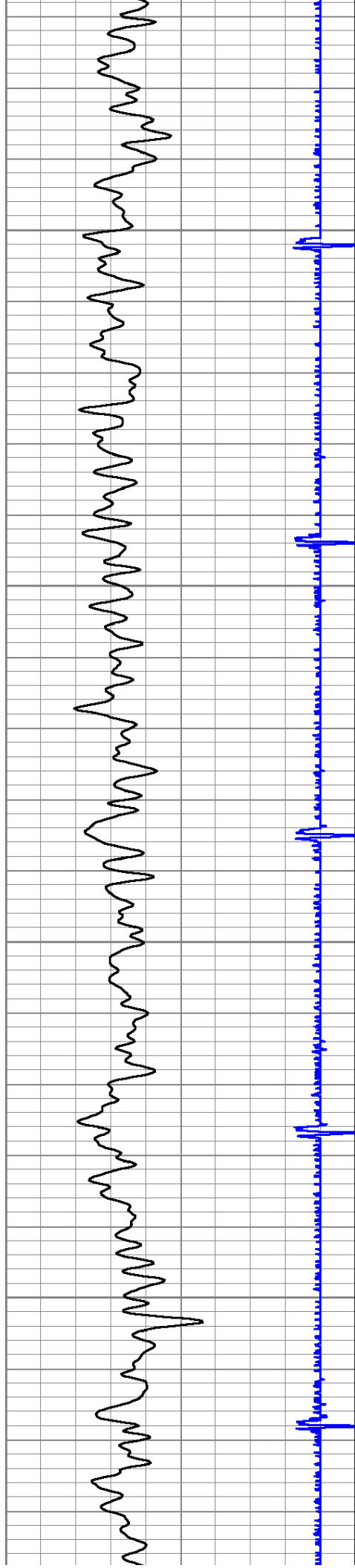
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550
600
650
700
750



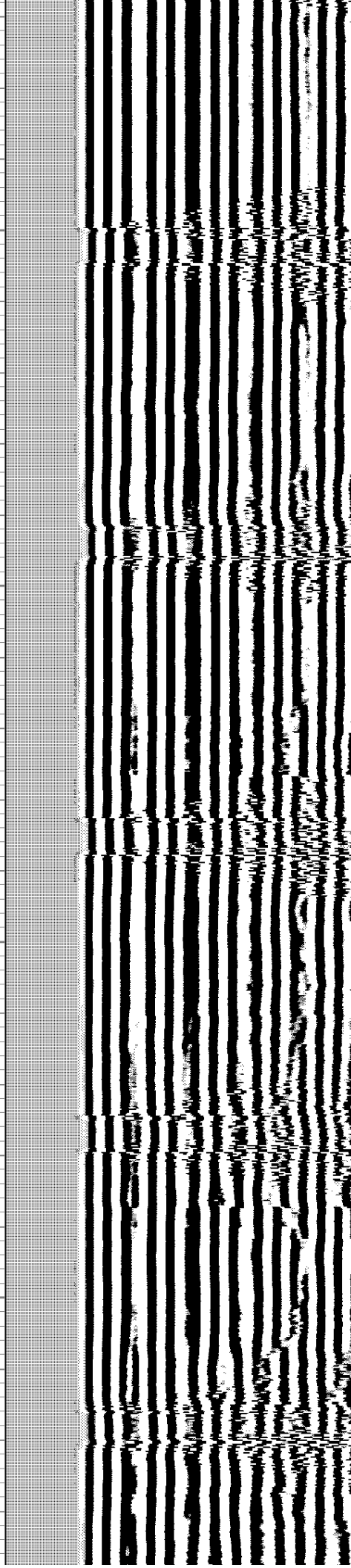
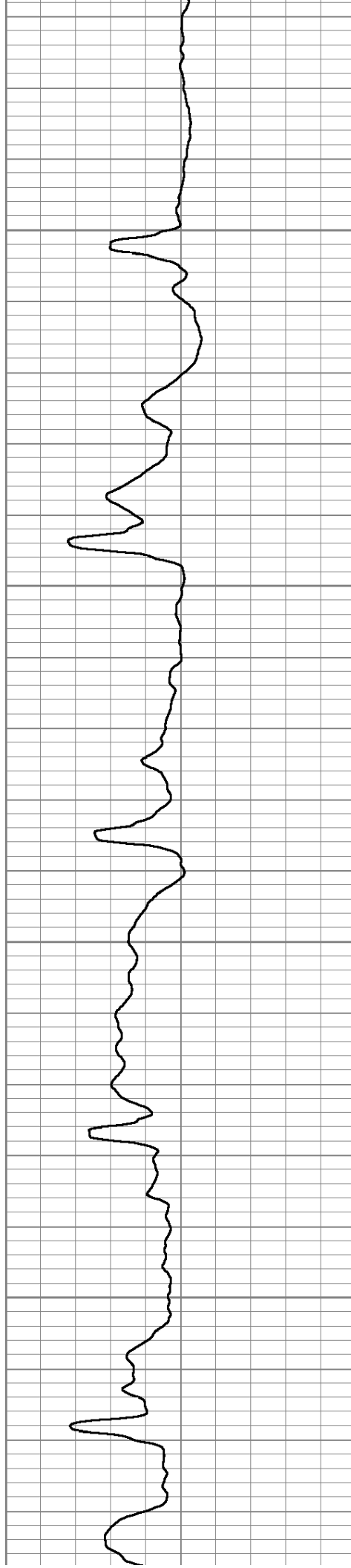


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850

900

950





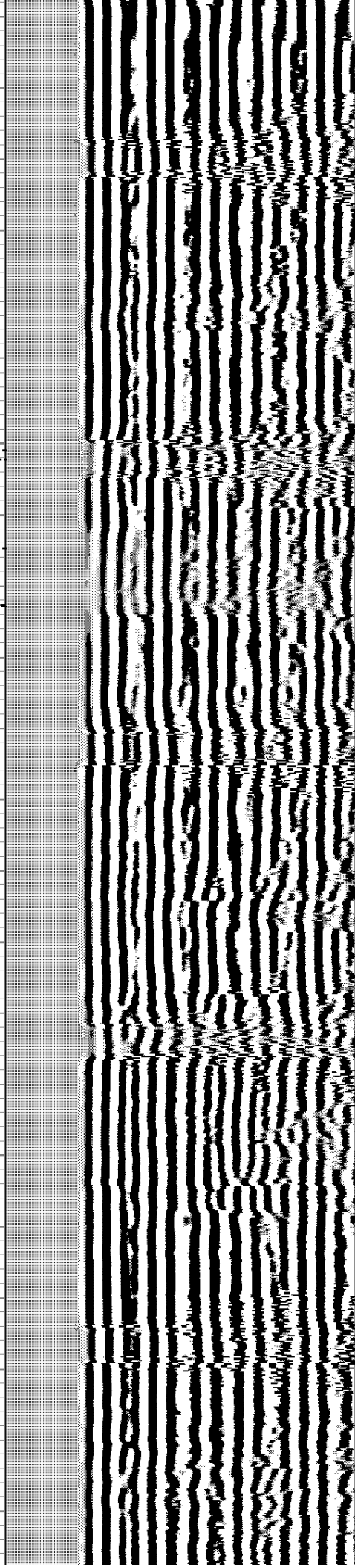
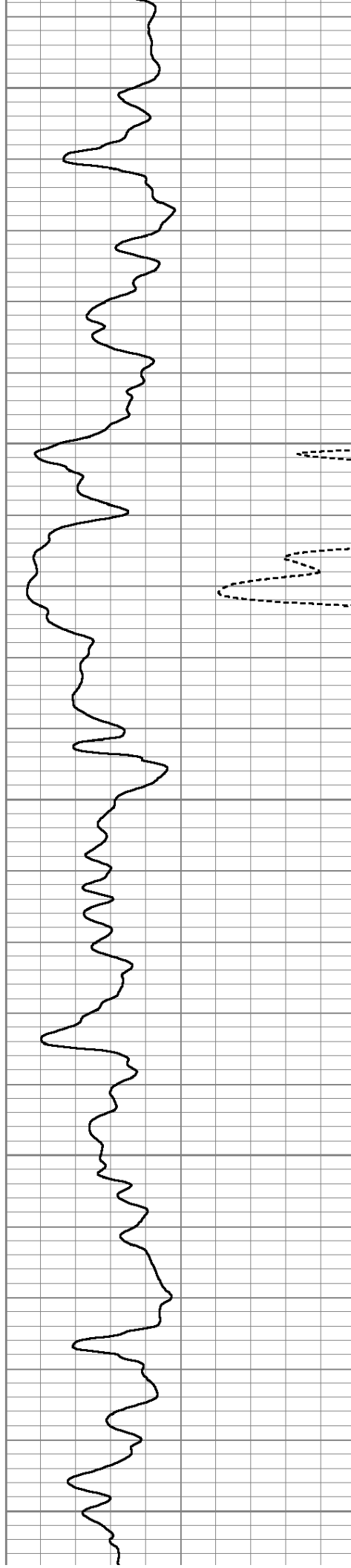
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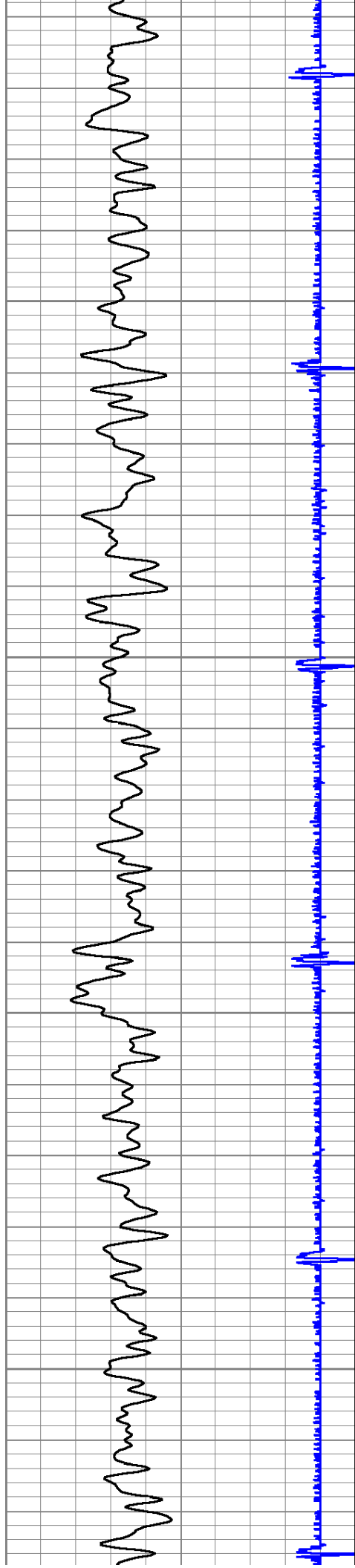
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1100

1150

1200



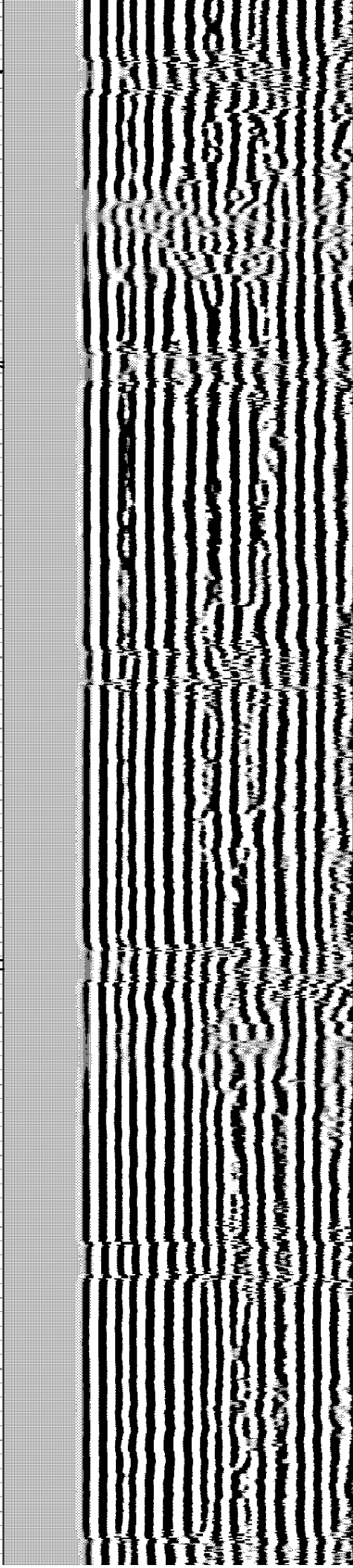
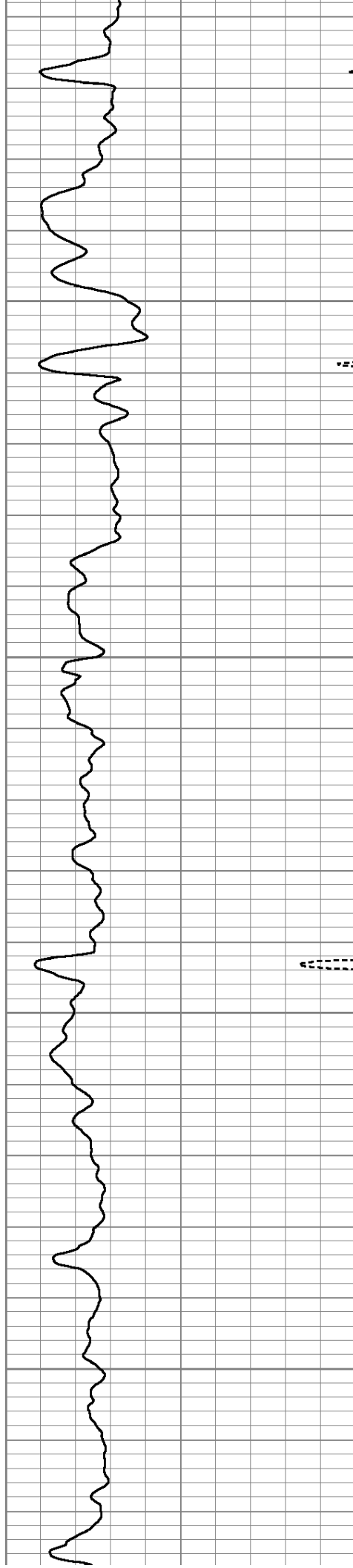


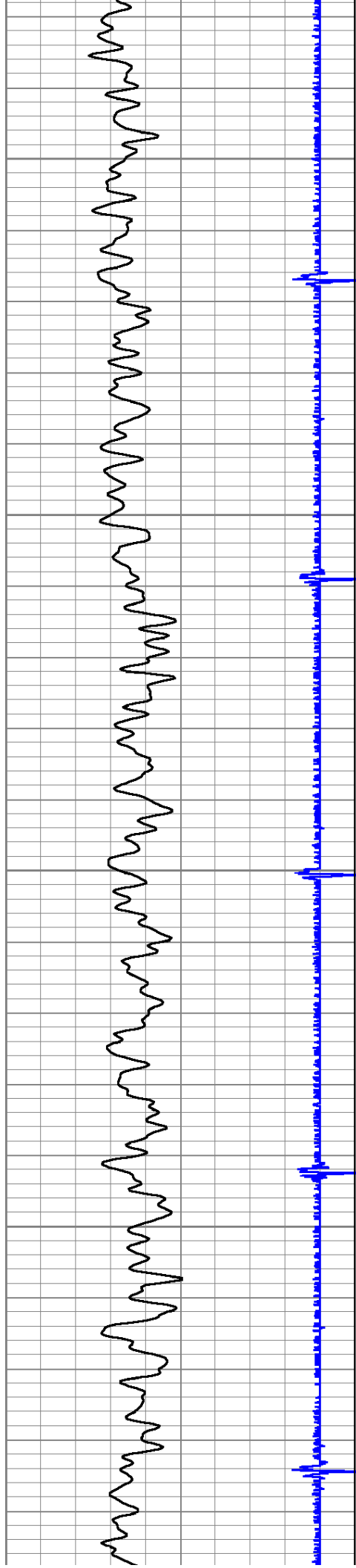
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1300

1350

1400



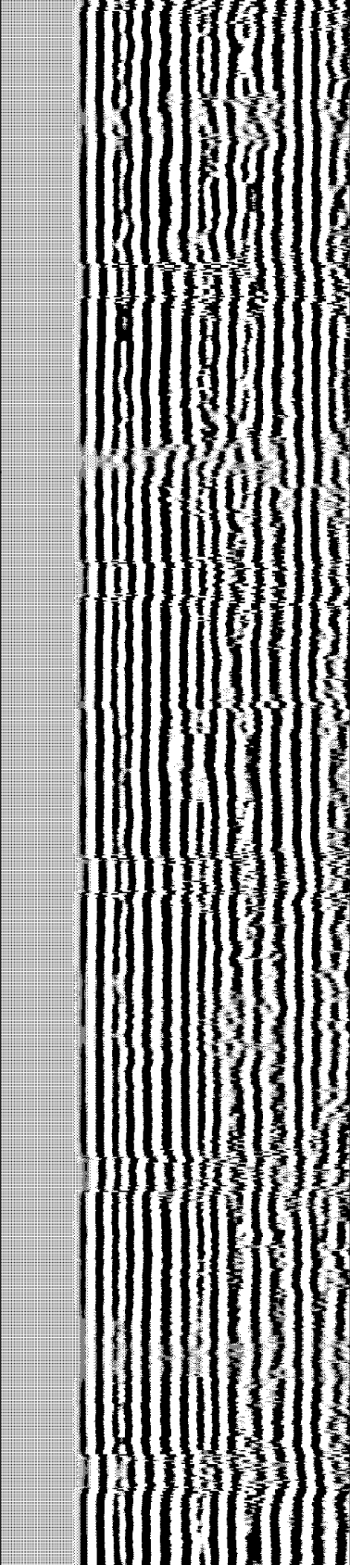
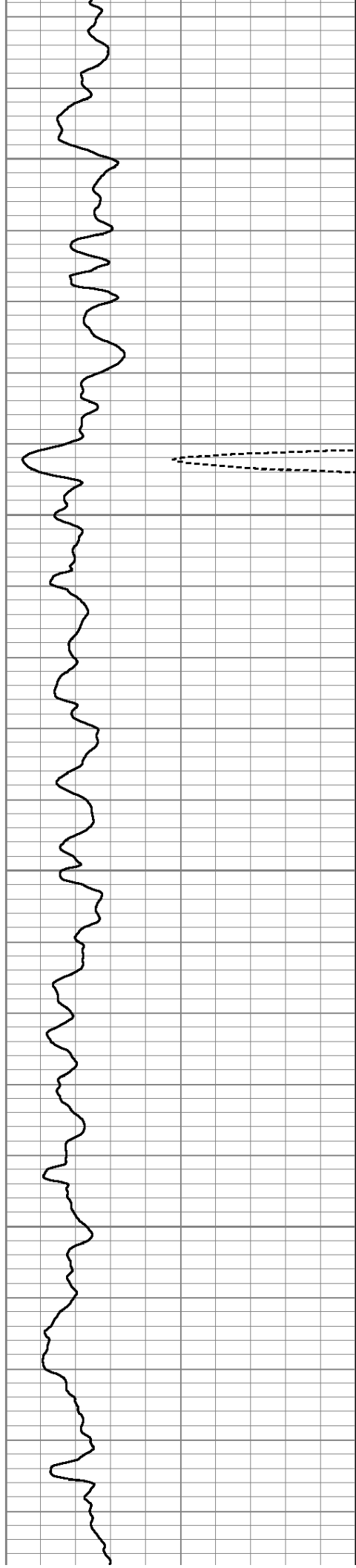


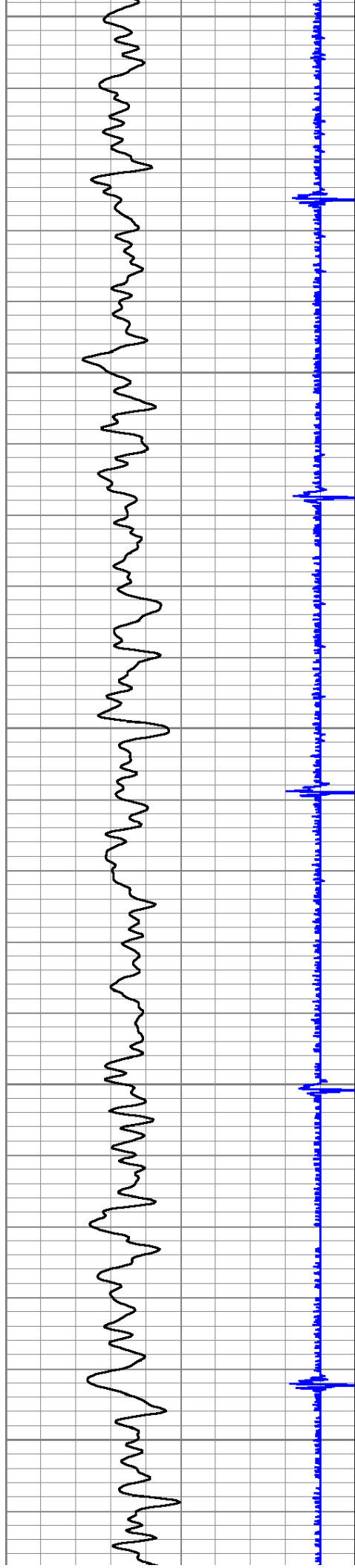
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1550

1600





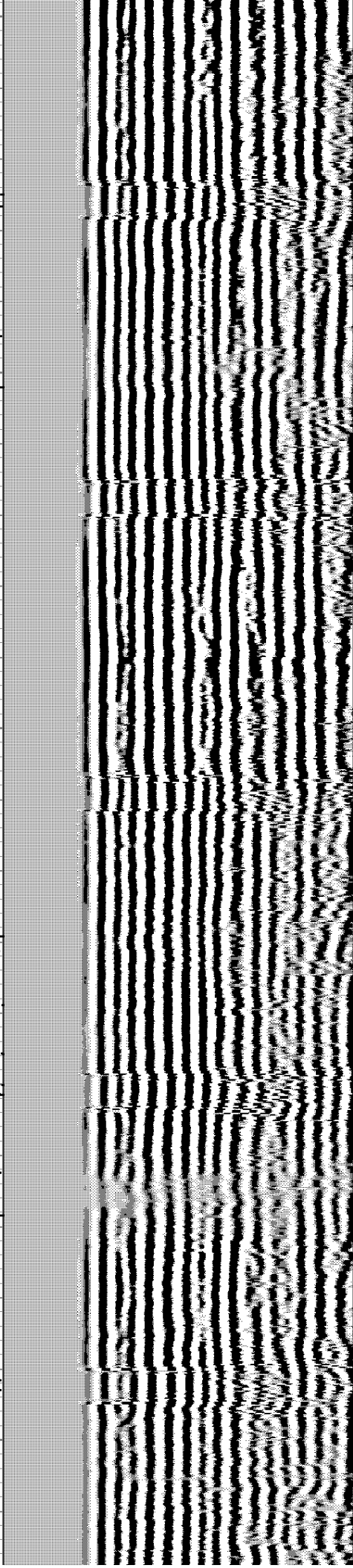
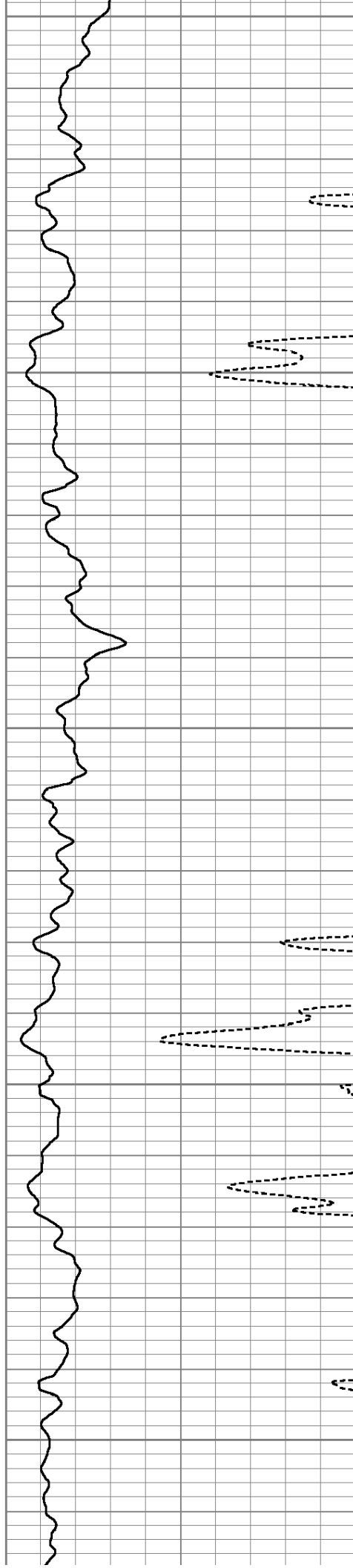
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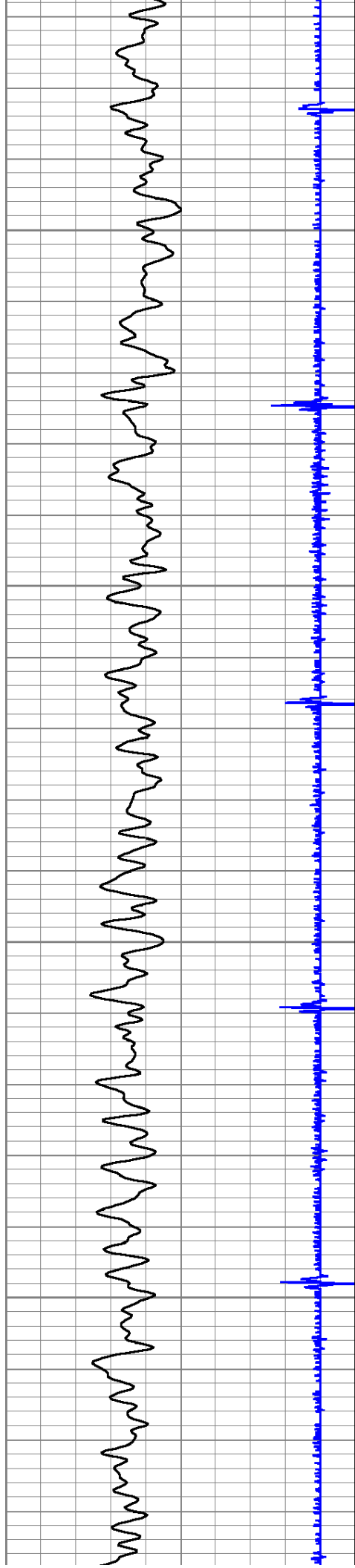
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1850



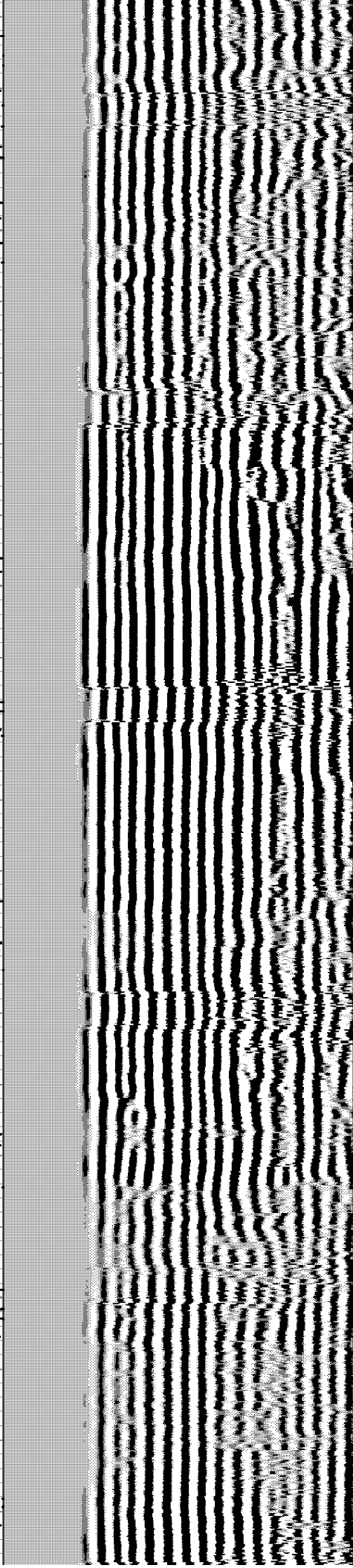
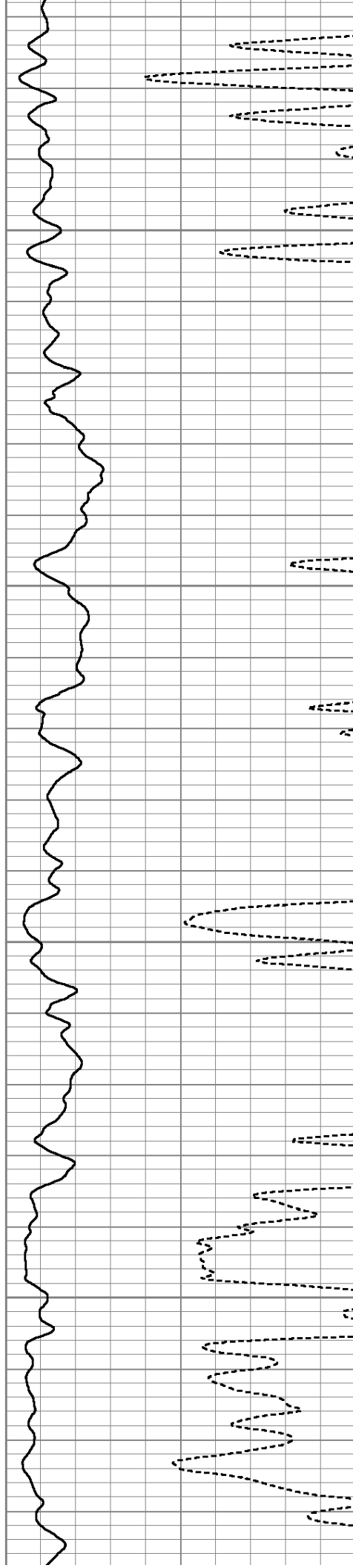


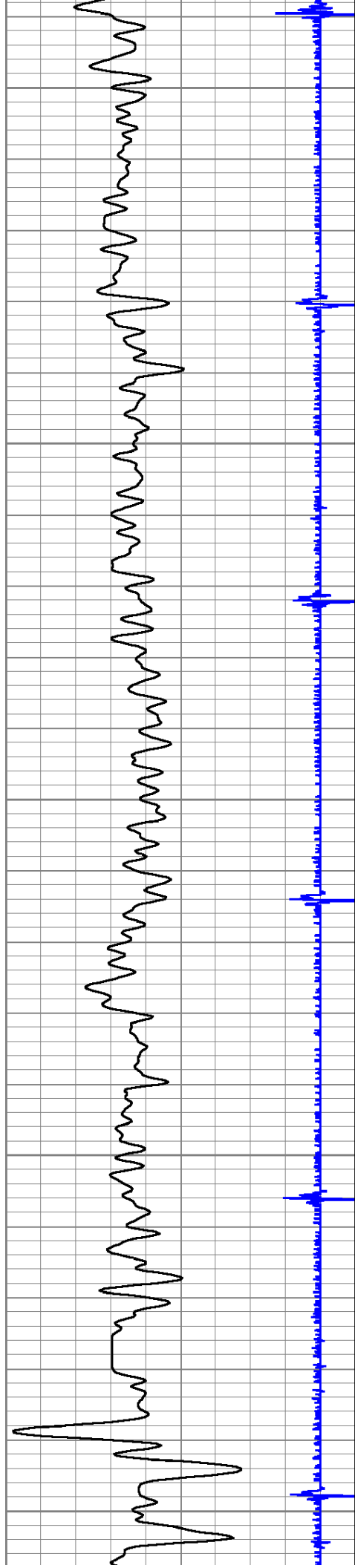
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1950

2000

2050





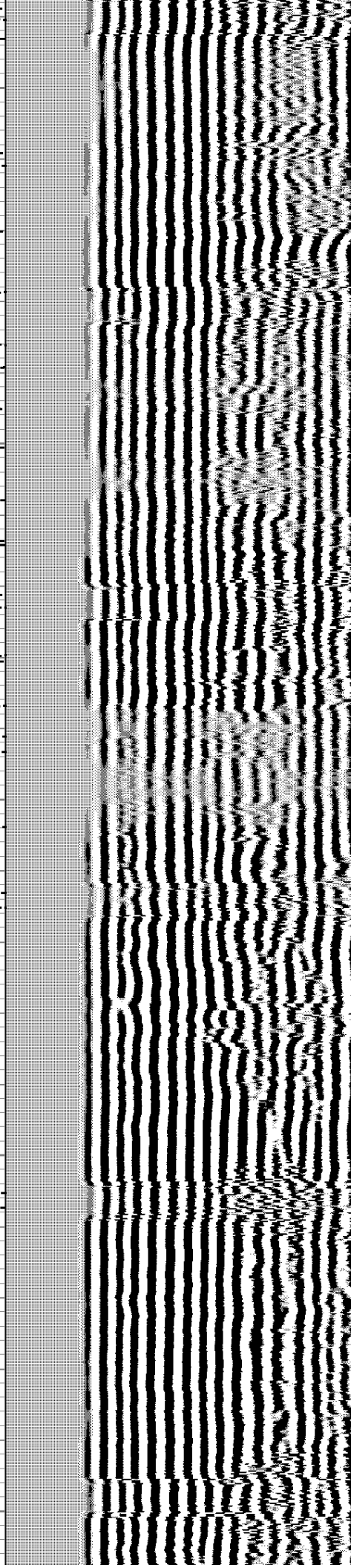
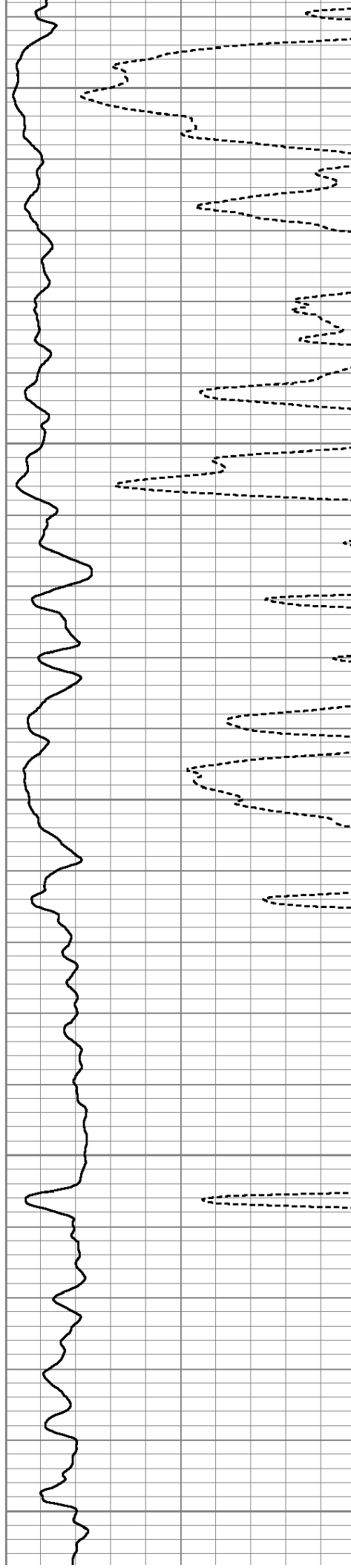
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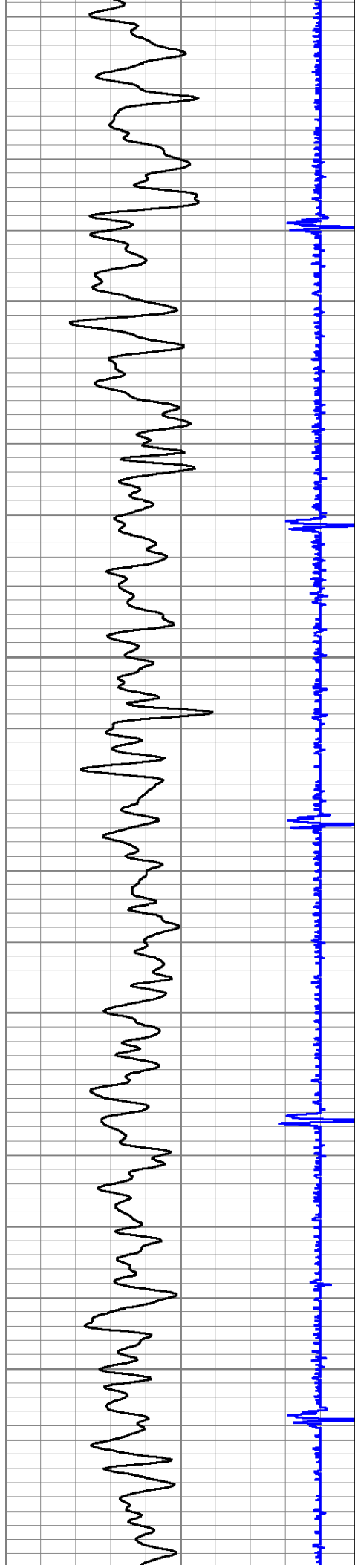
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2200

2250

2300



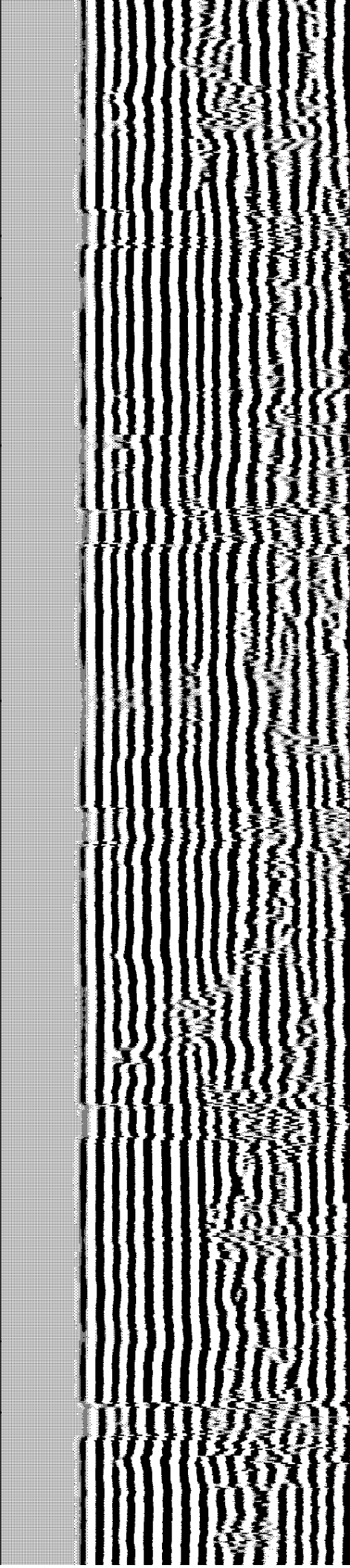
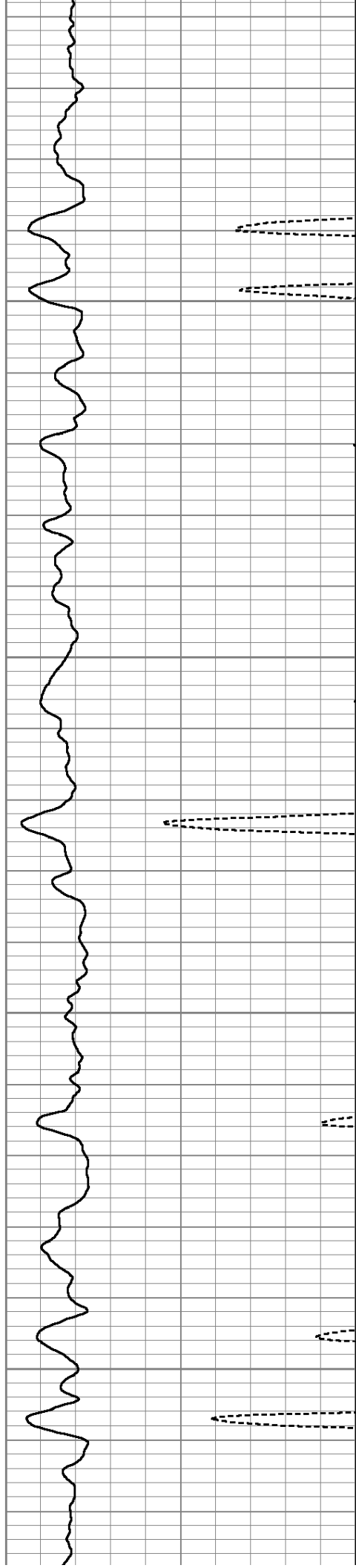


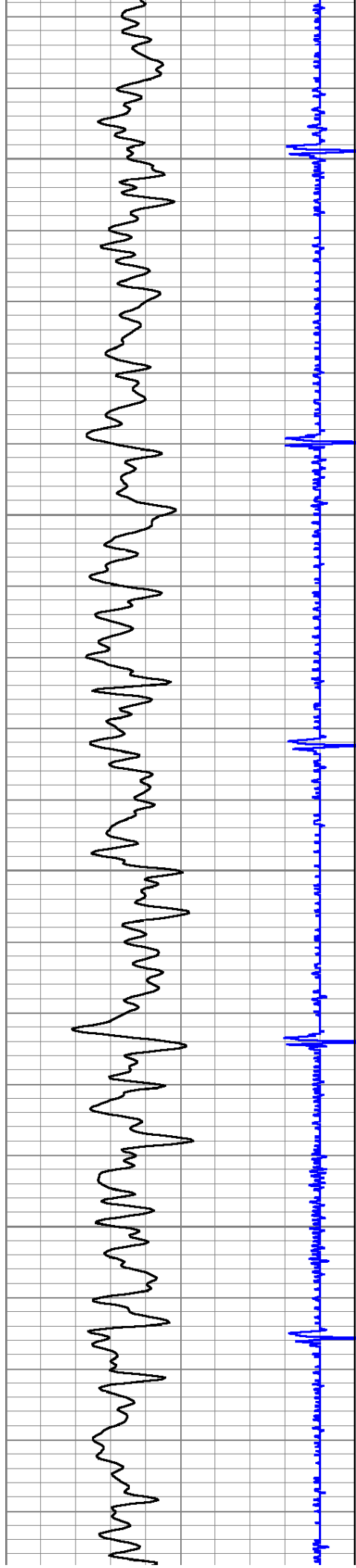
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2400

2450

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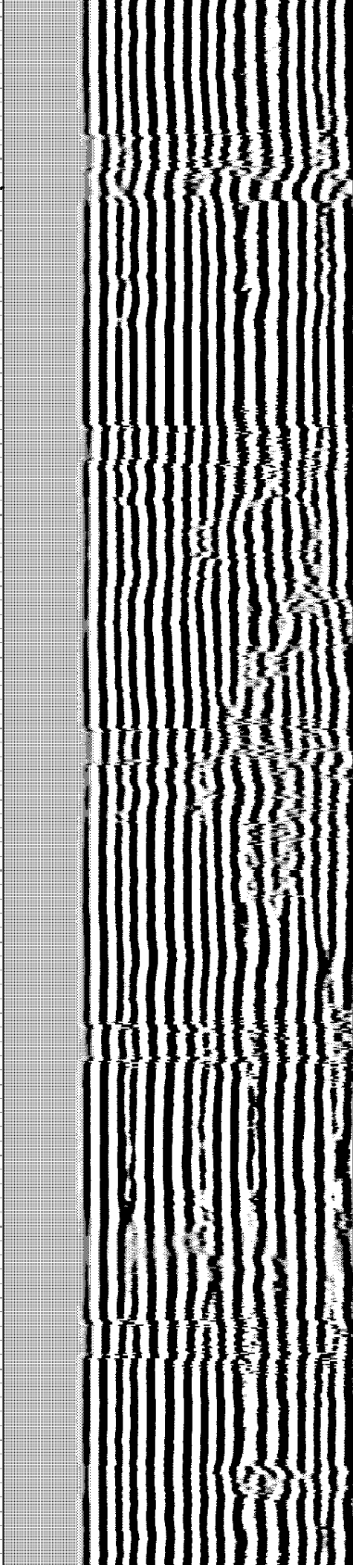
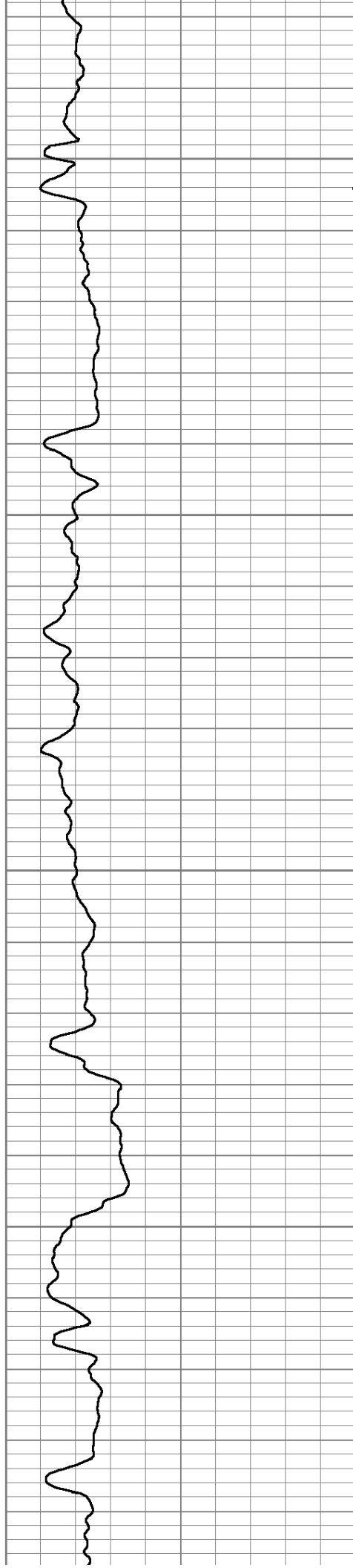


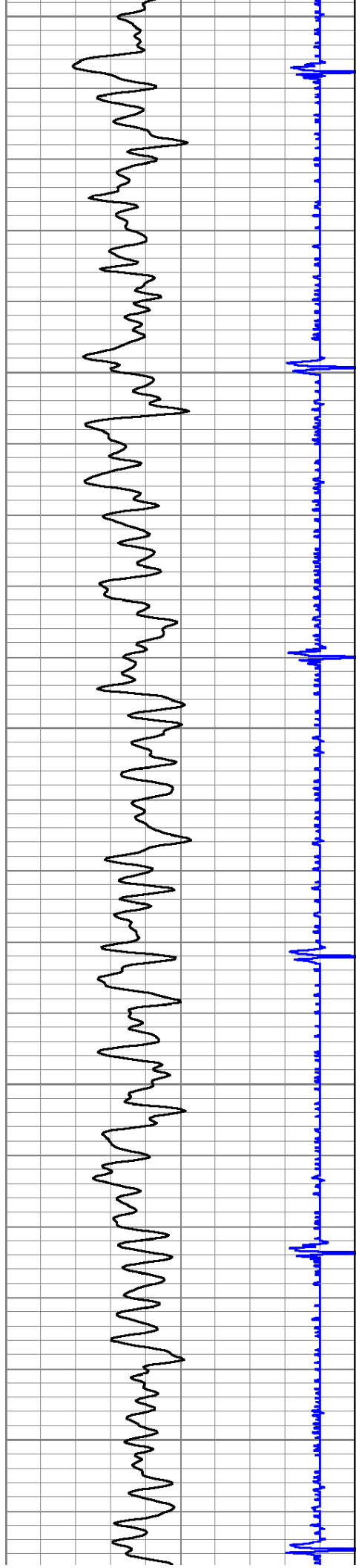
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2700





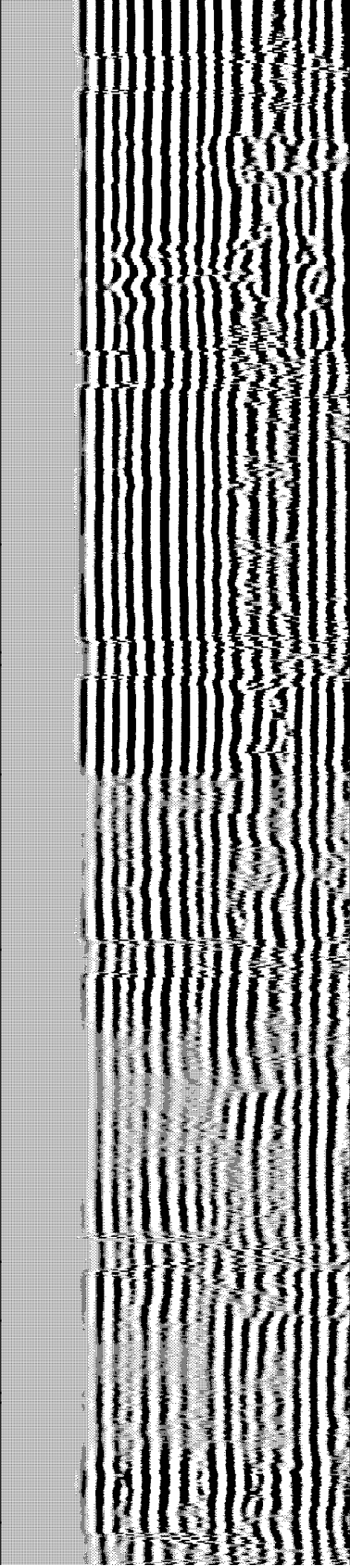
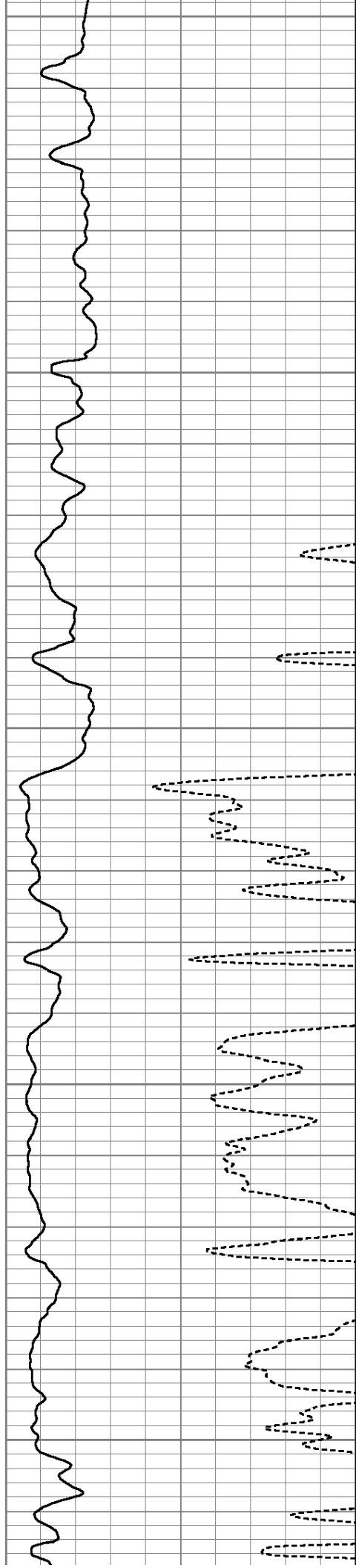
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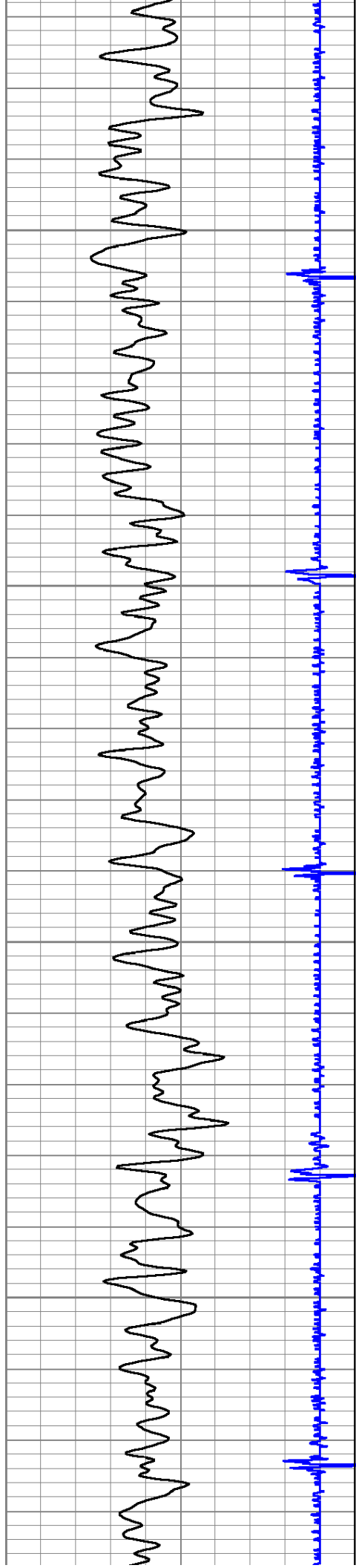
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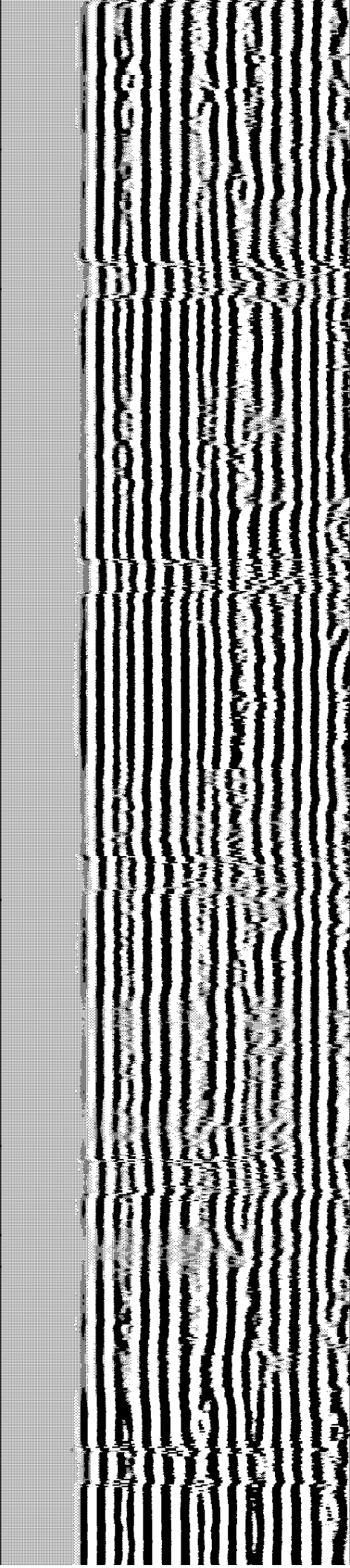
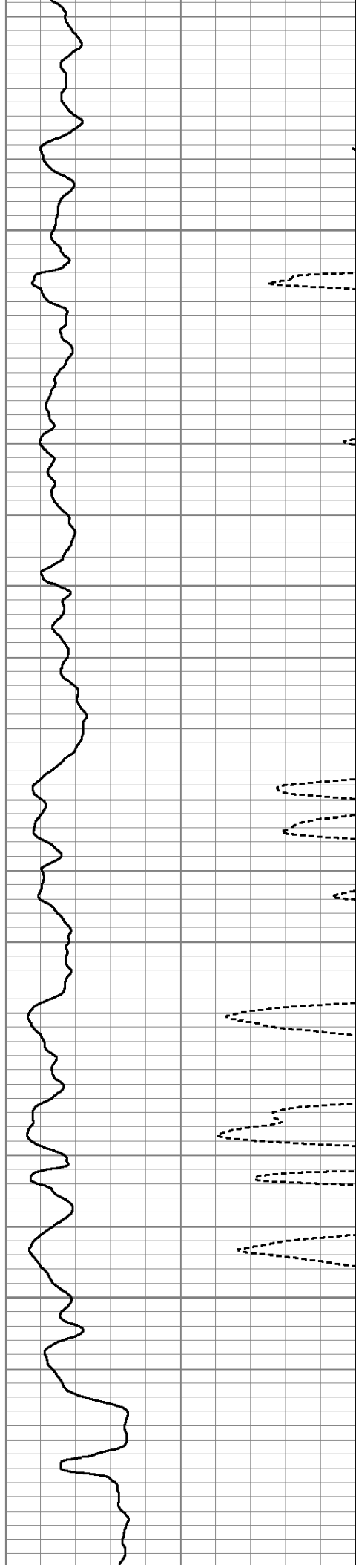


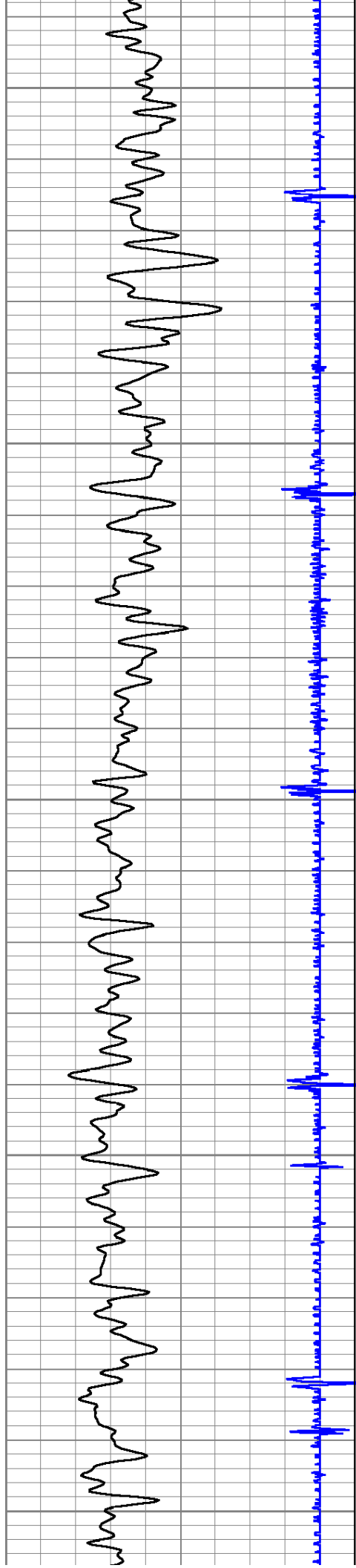
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3050

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3150





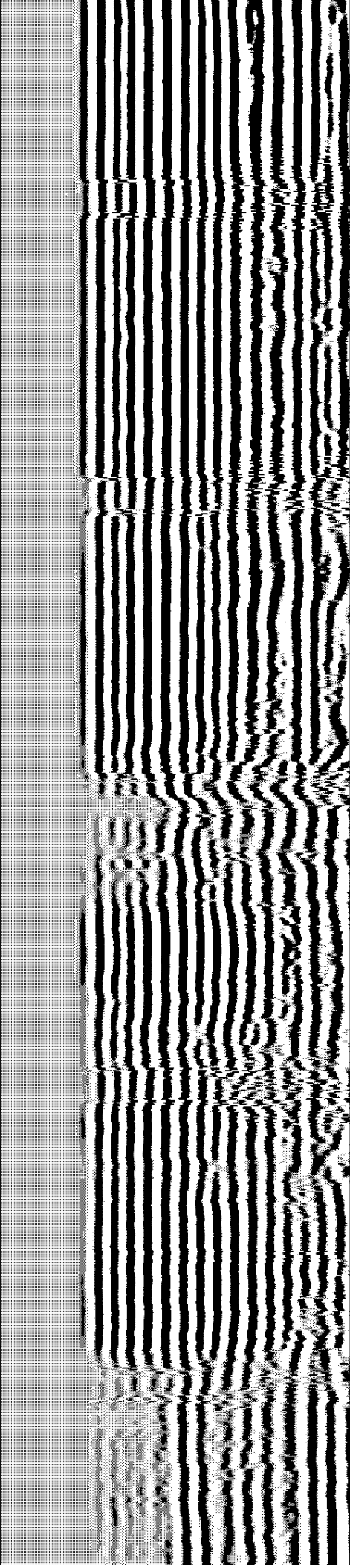
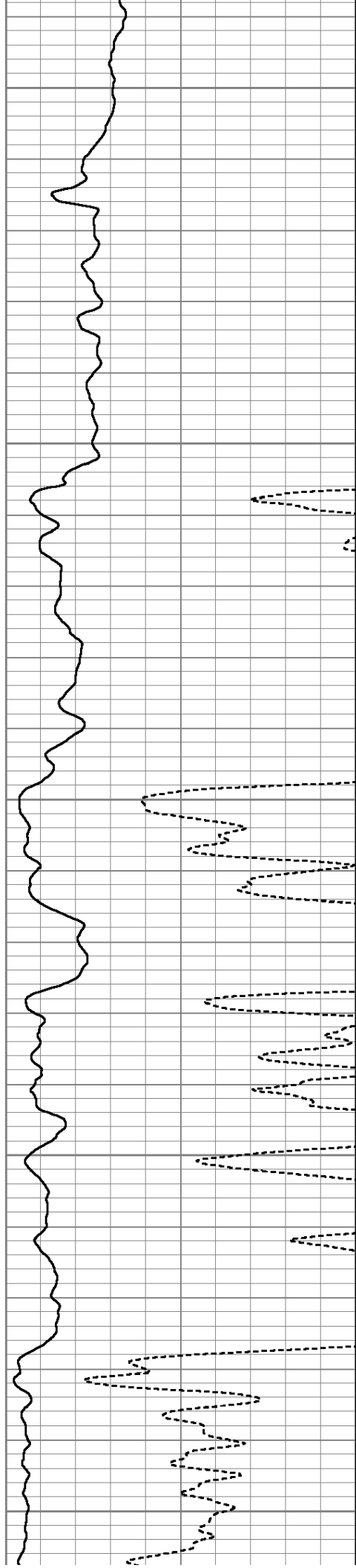
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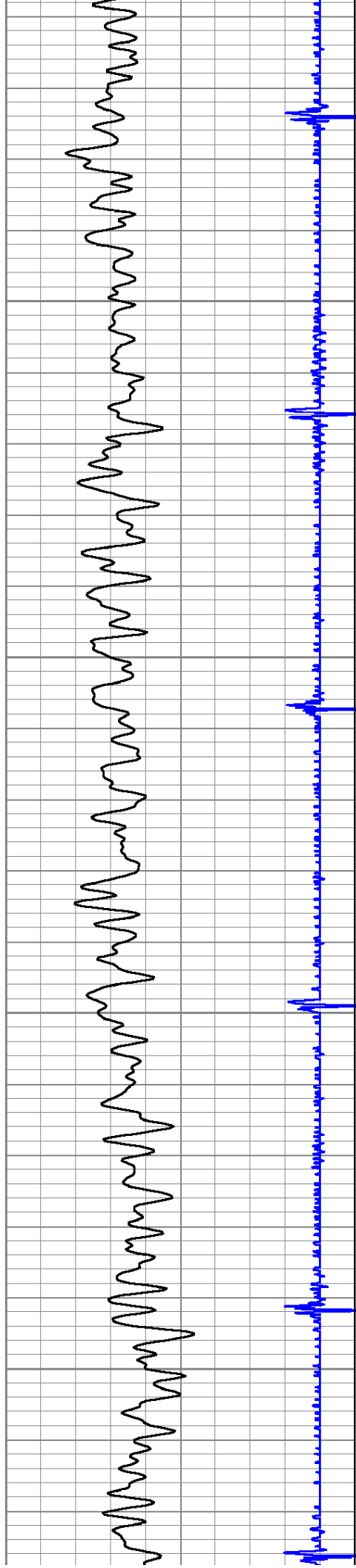
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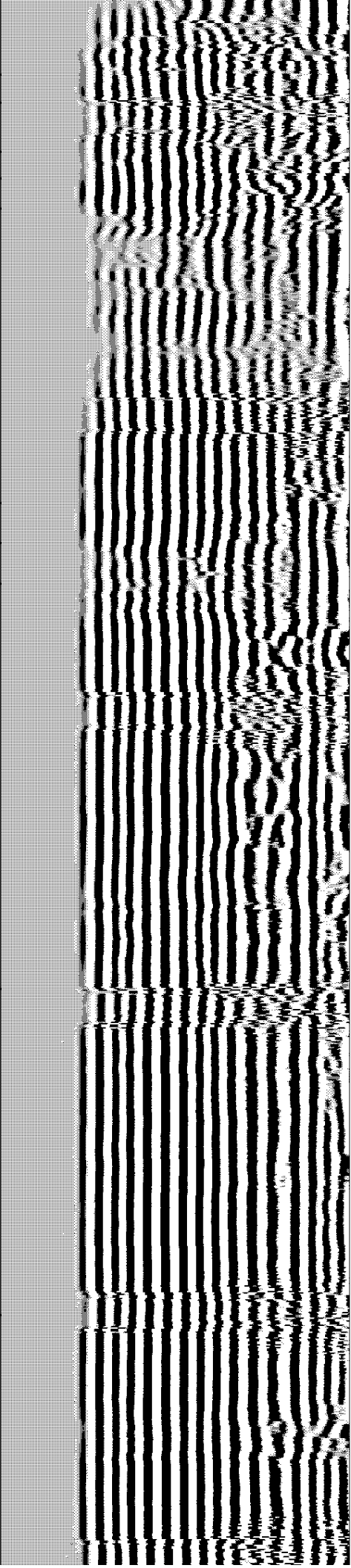
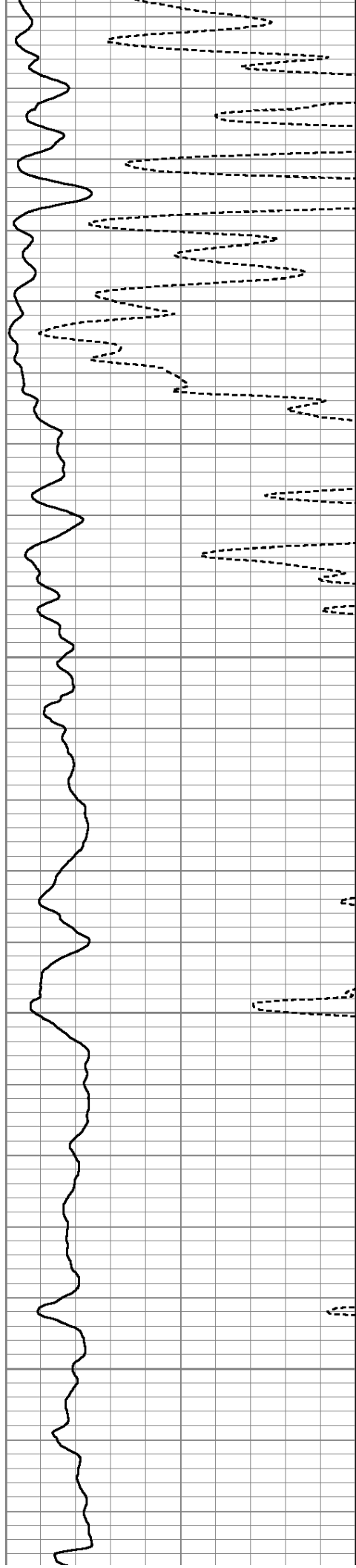


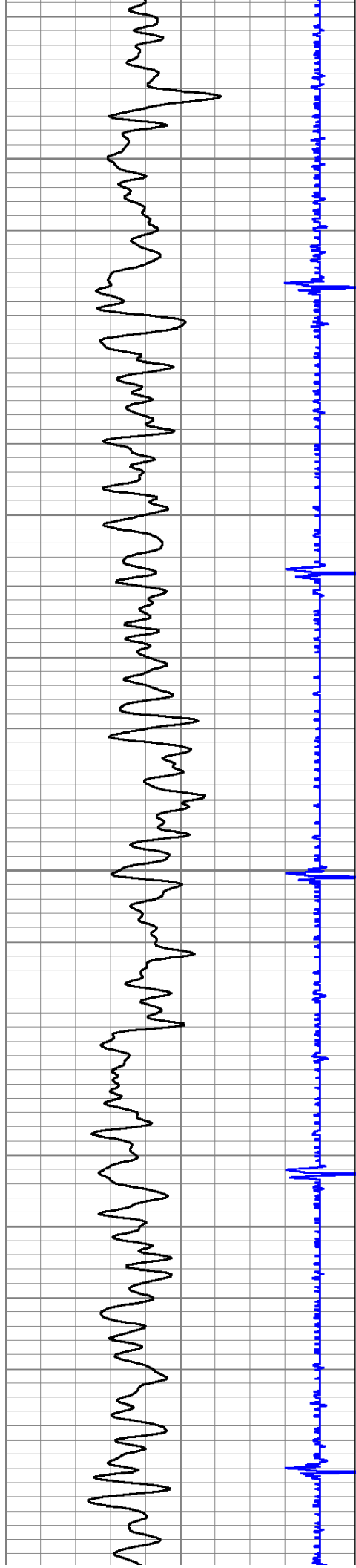
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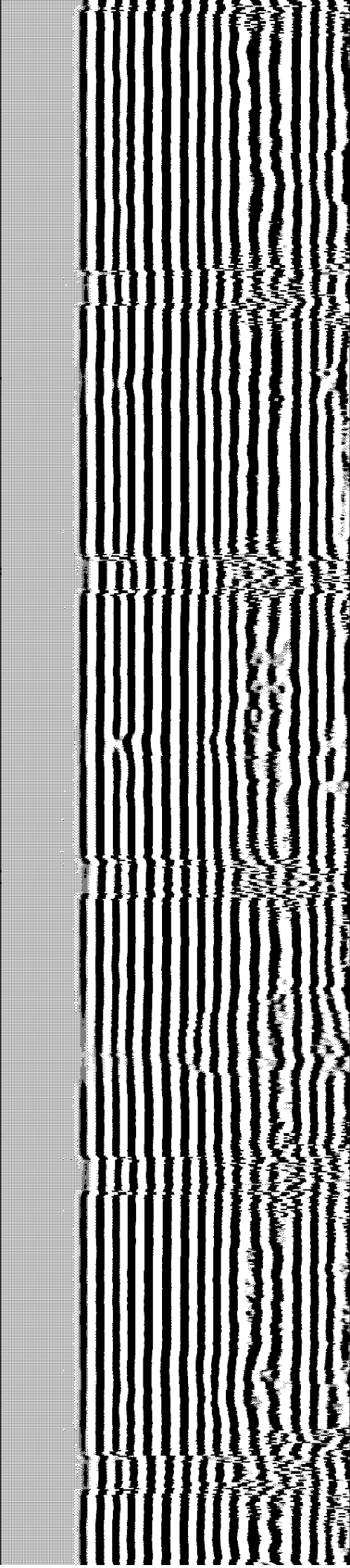
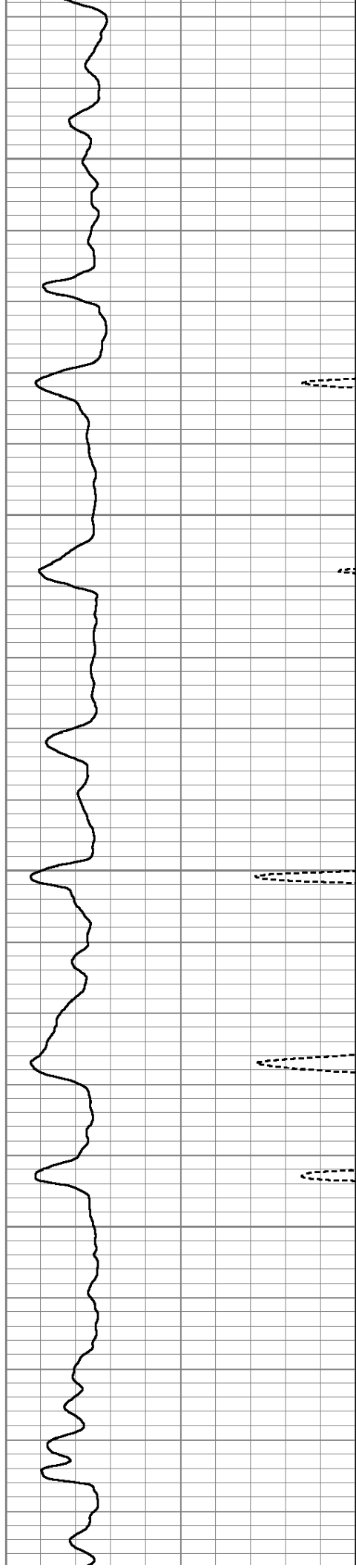


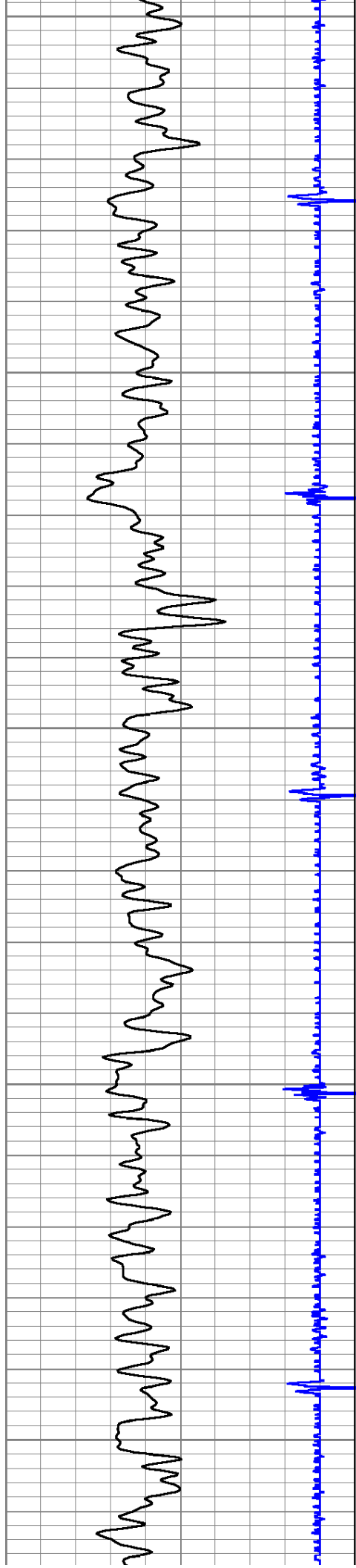
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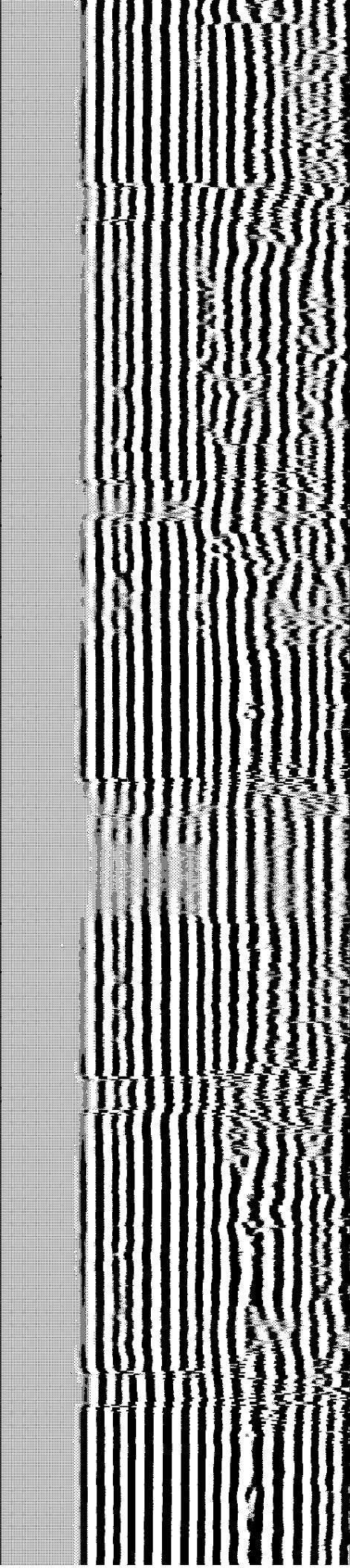
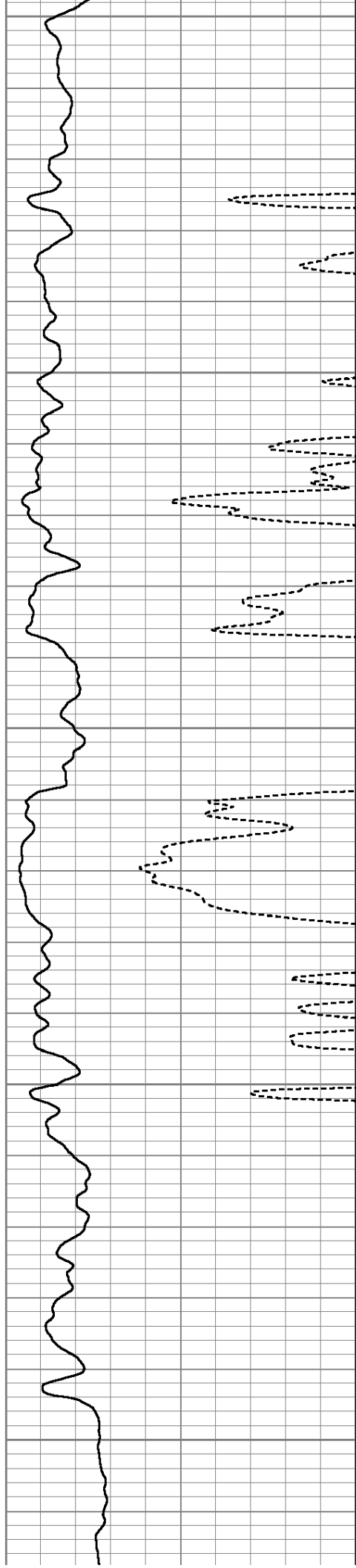
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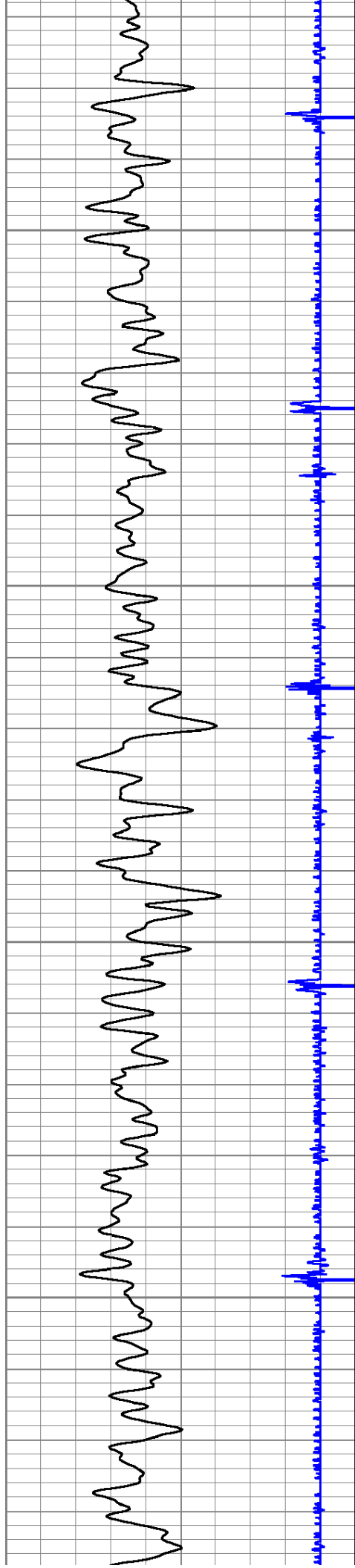
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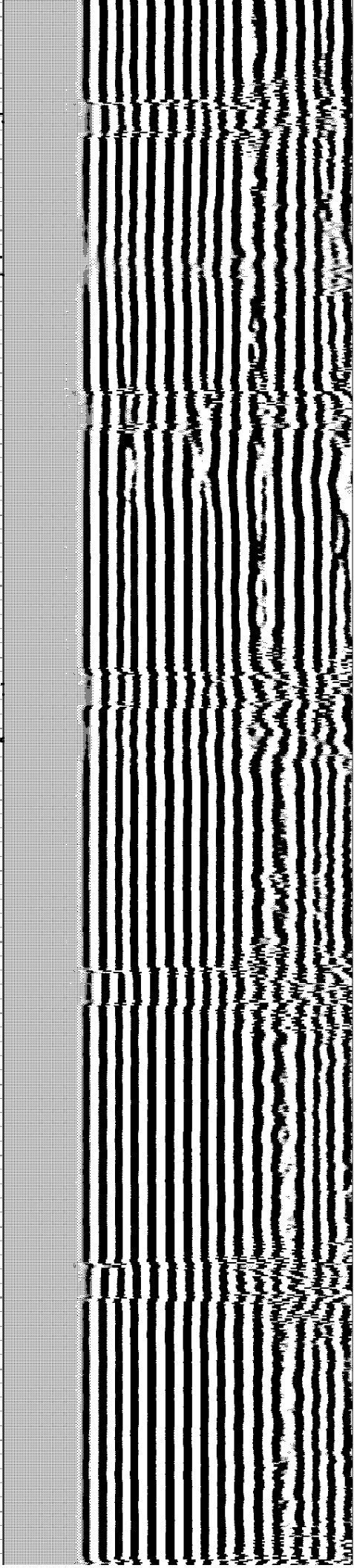
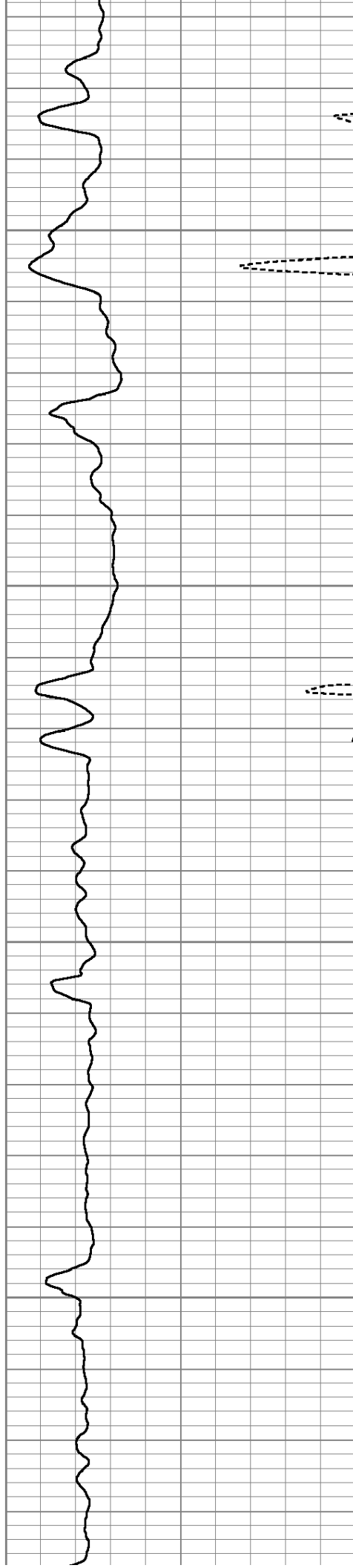


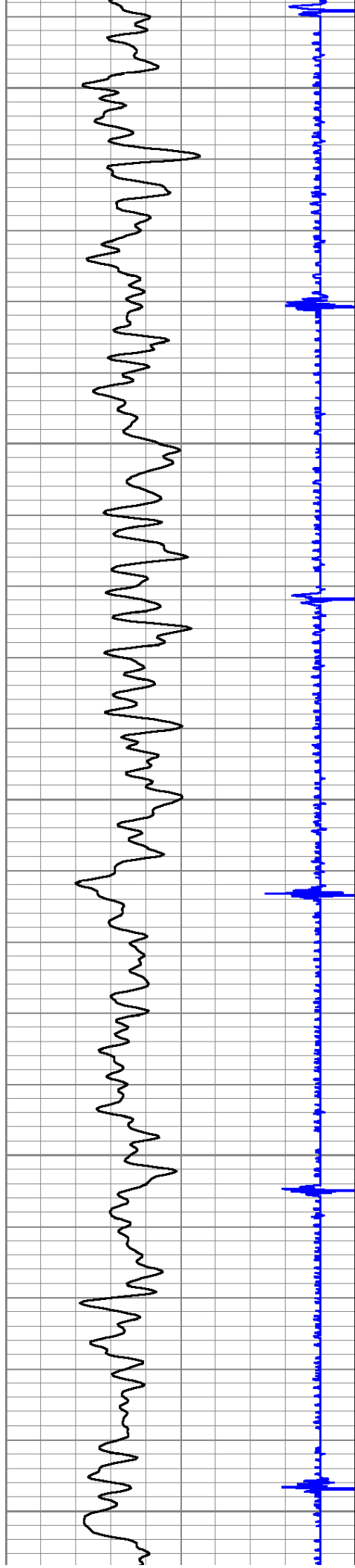
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4200

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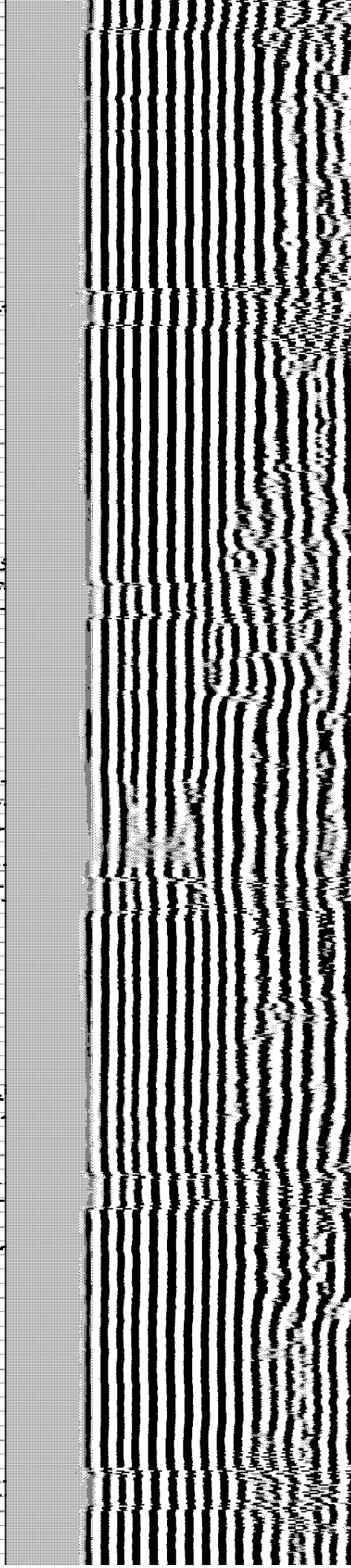
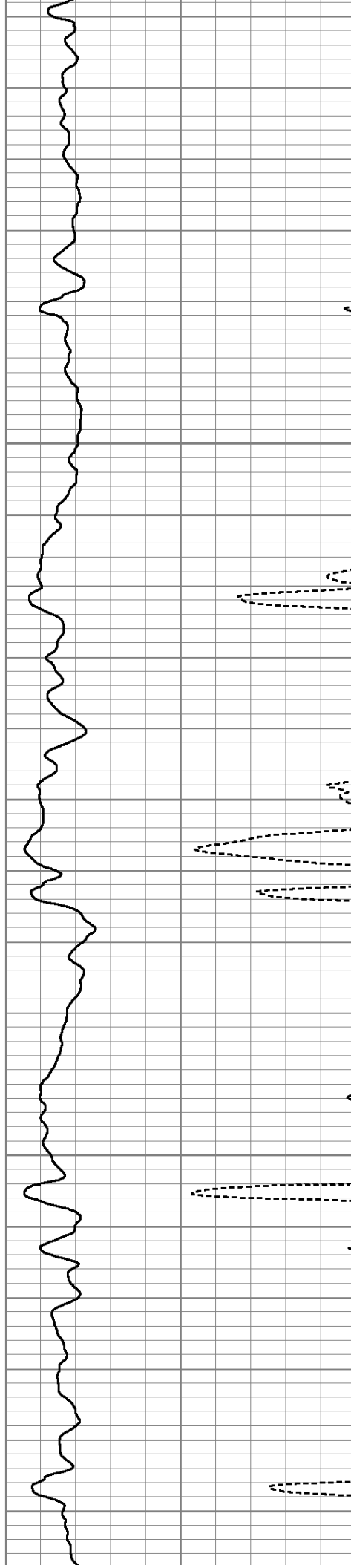
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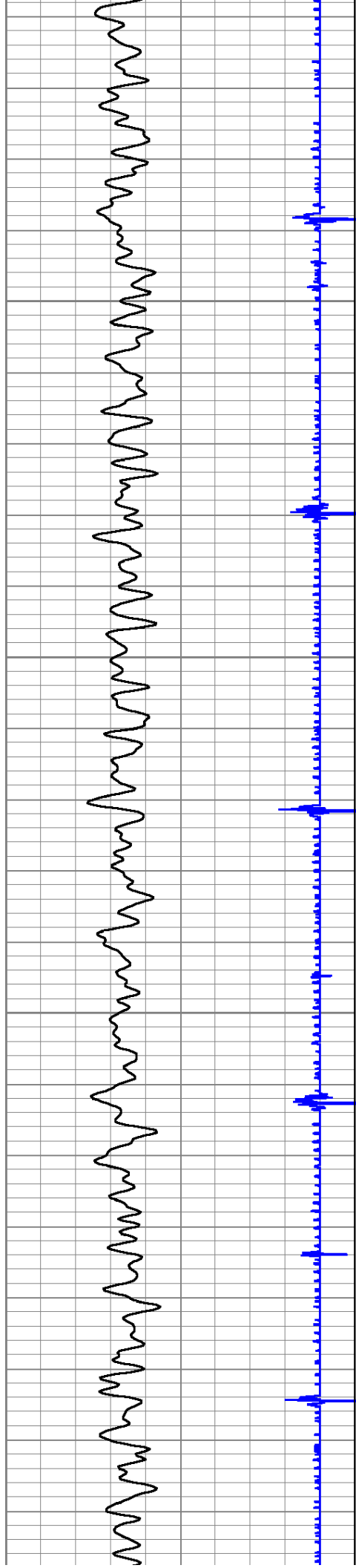
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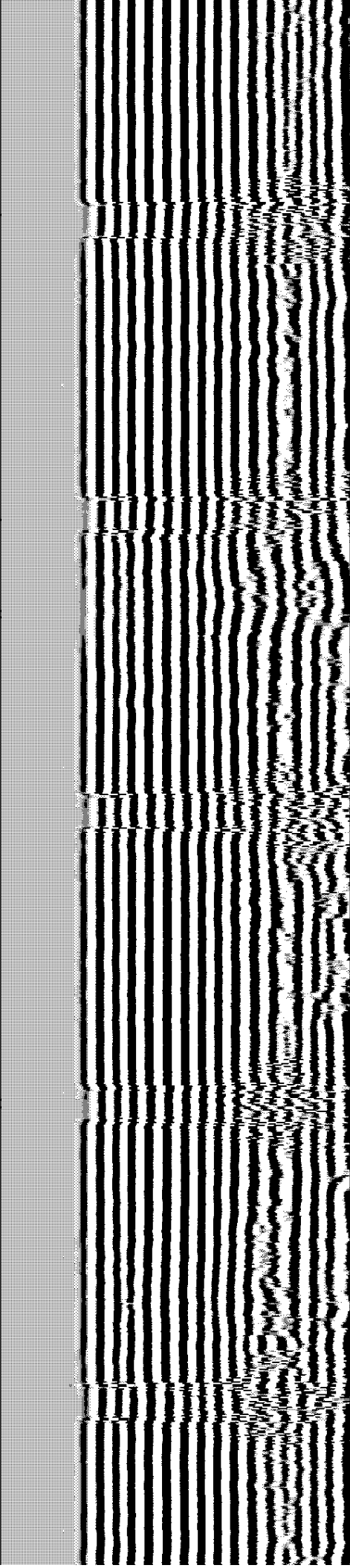
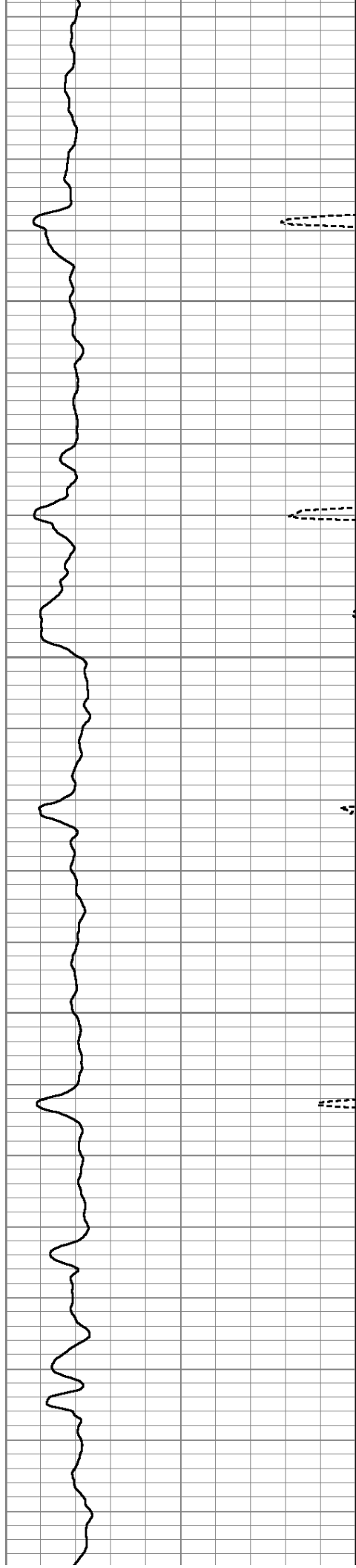


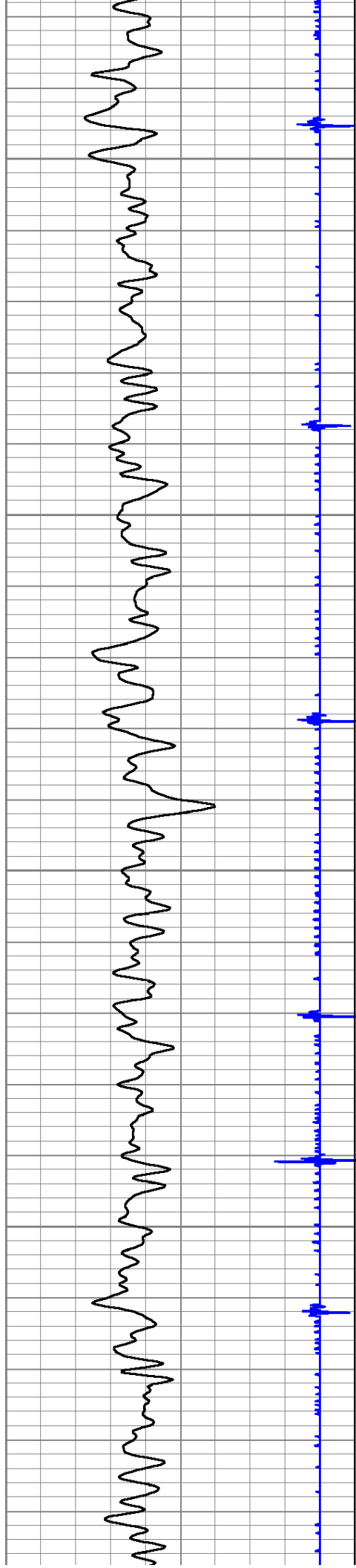
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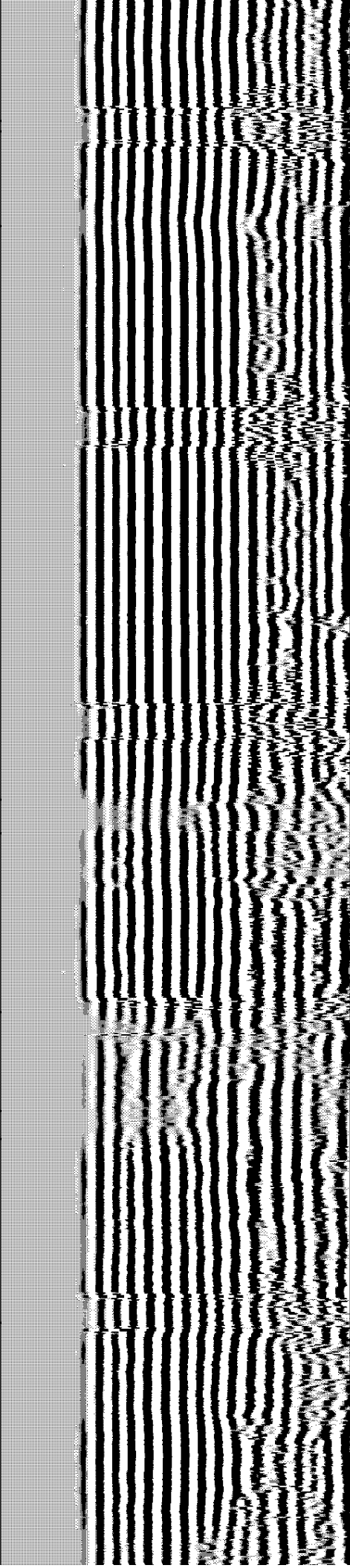
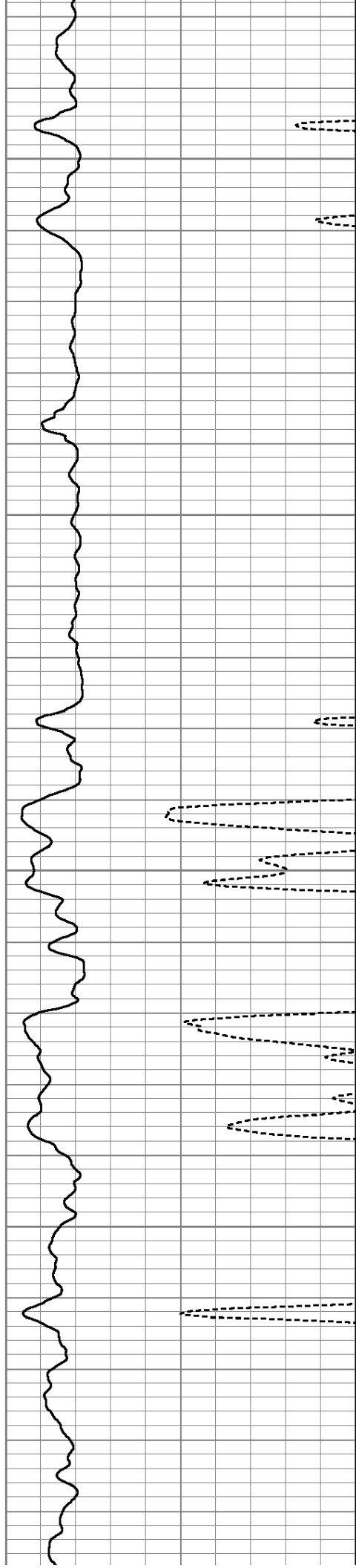


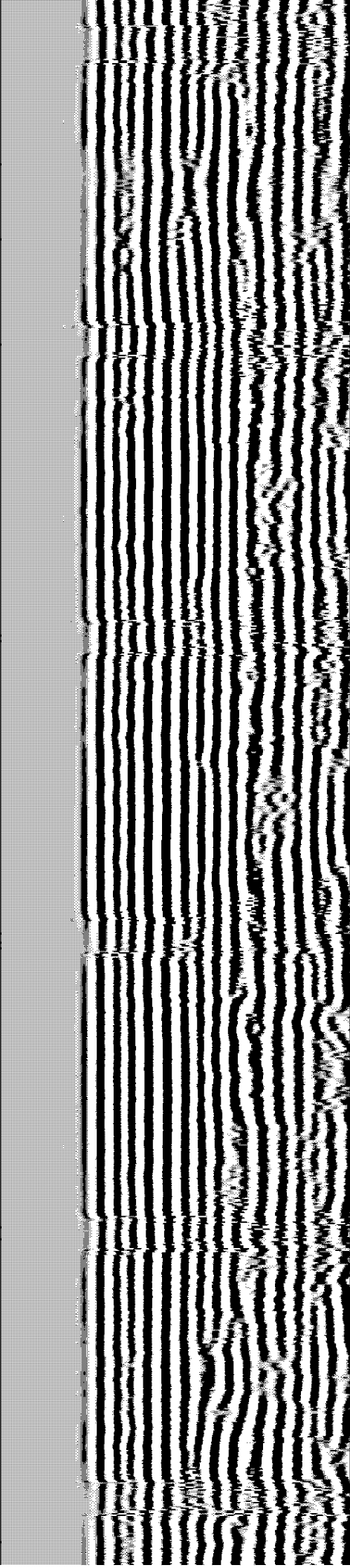
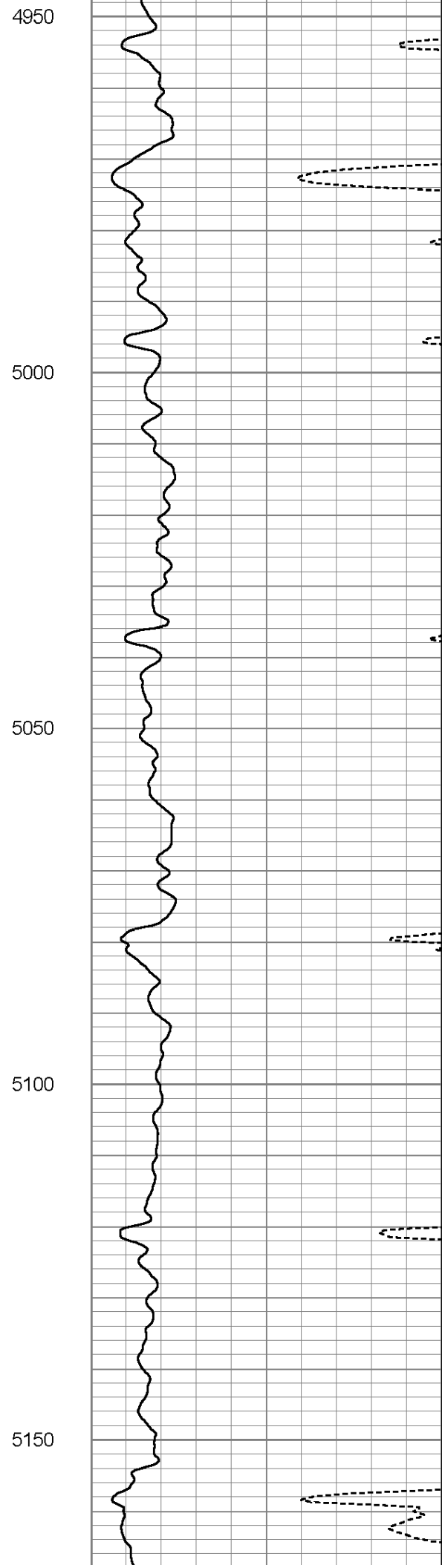
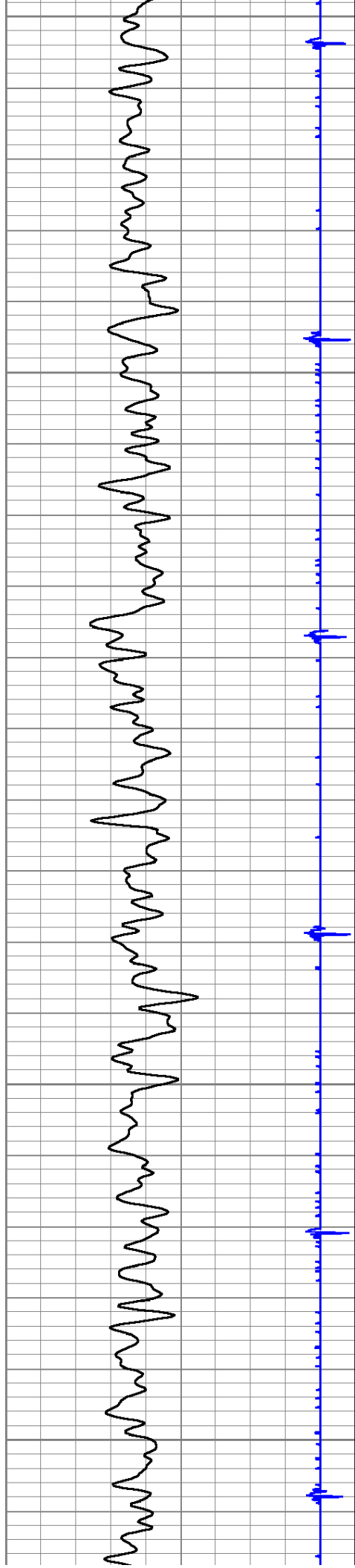
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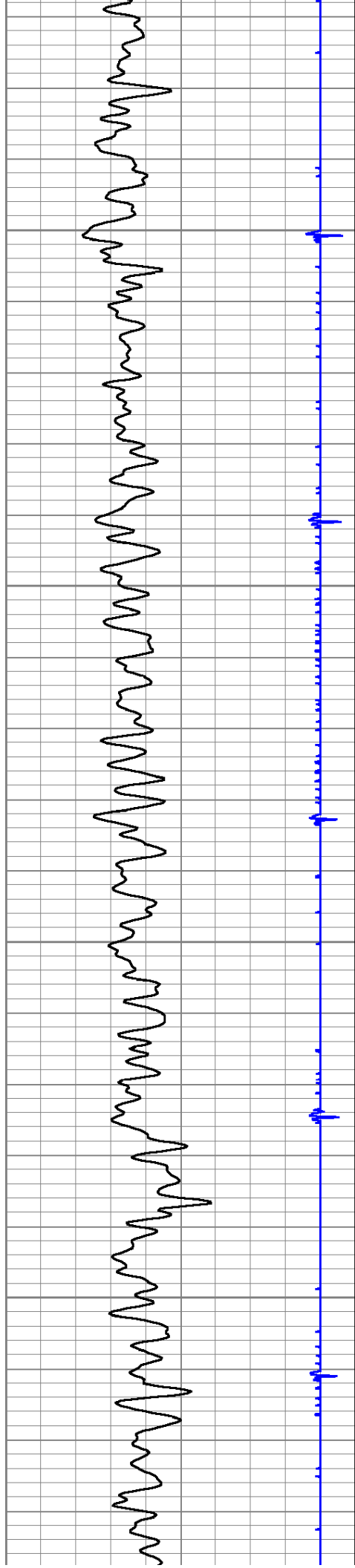
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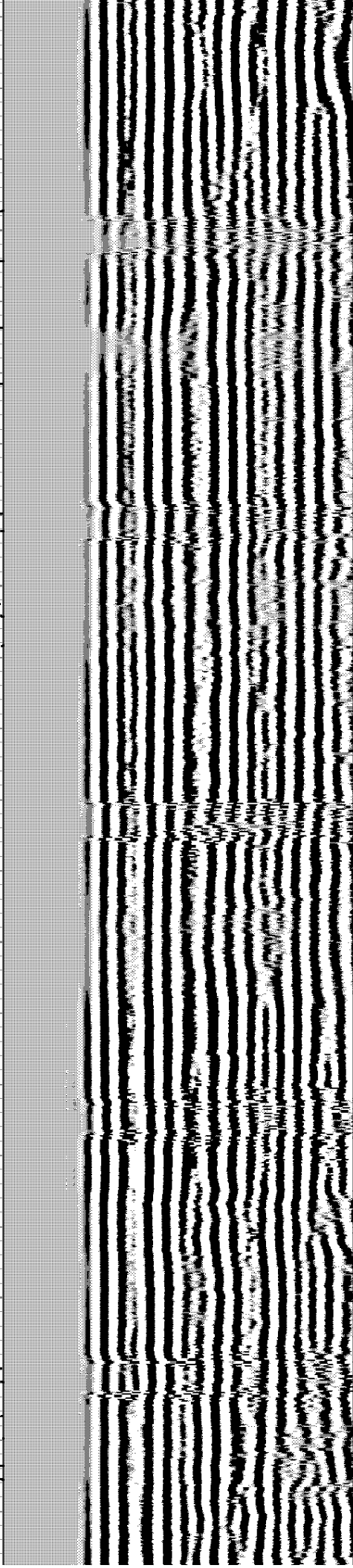
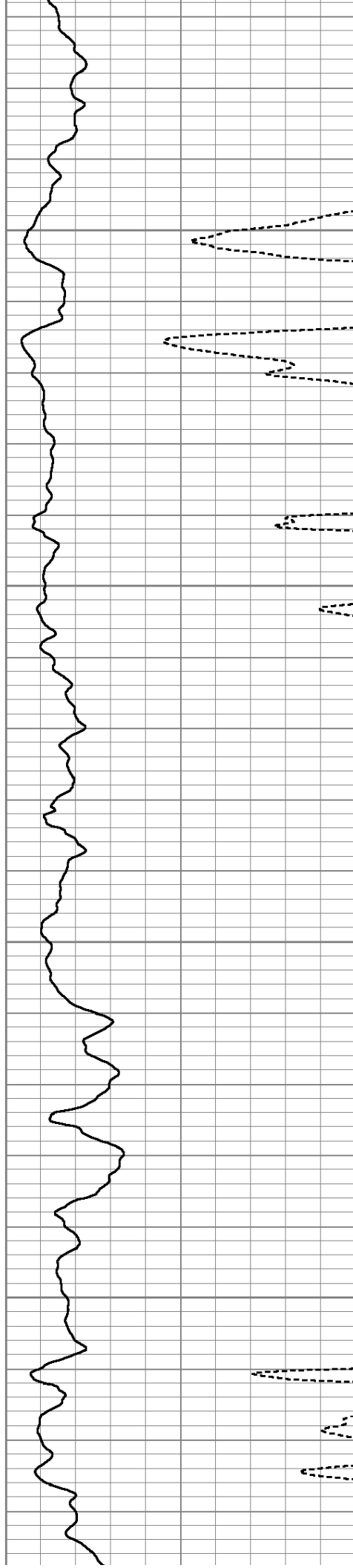


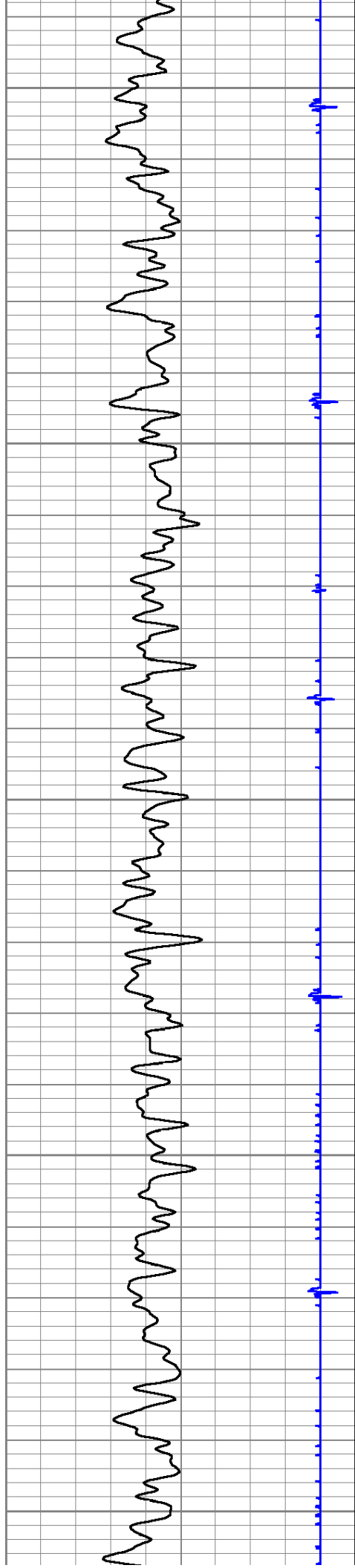
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5350





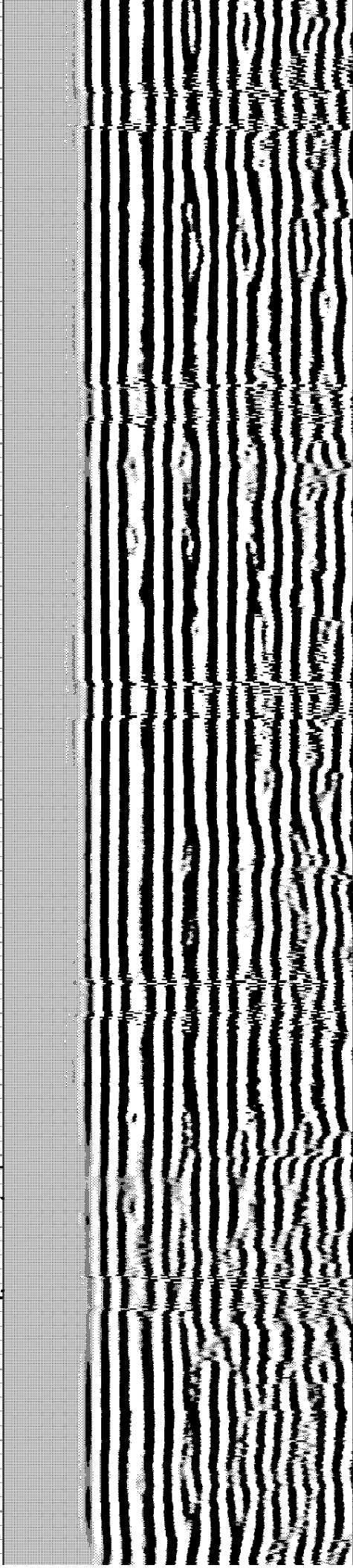
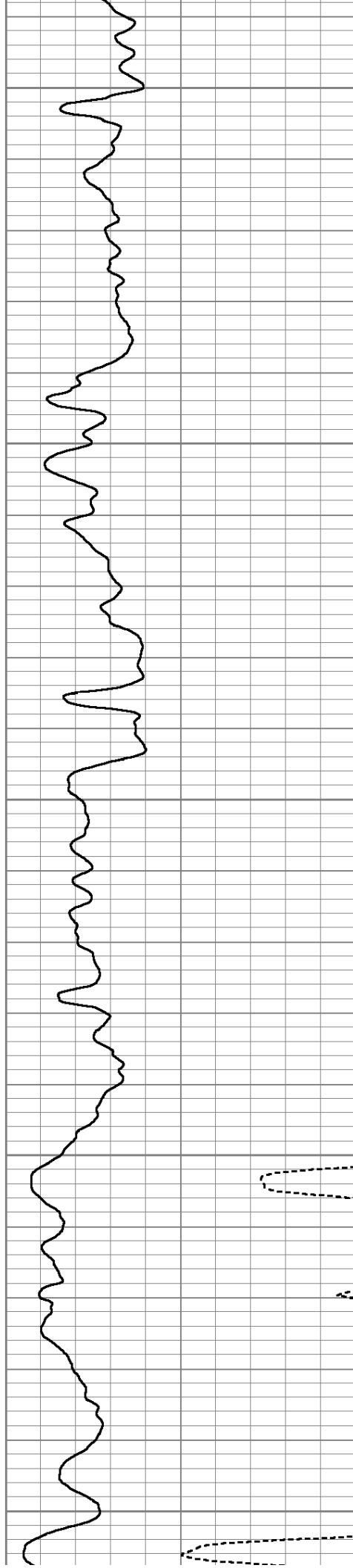
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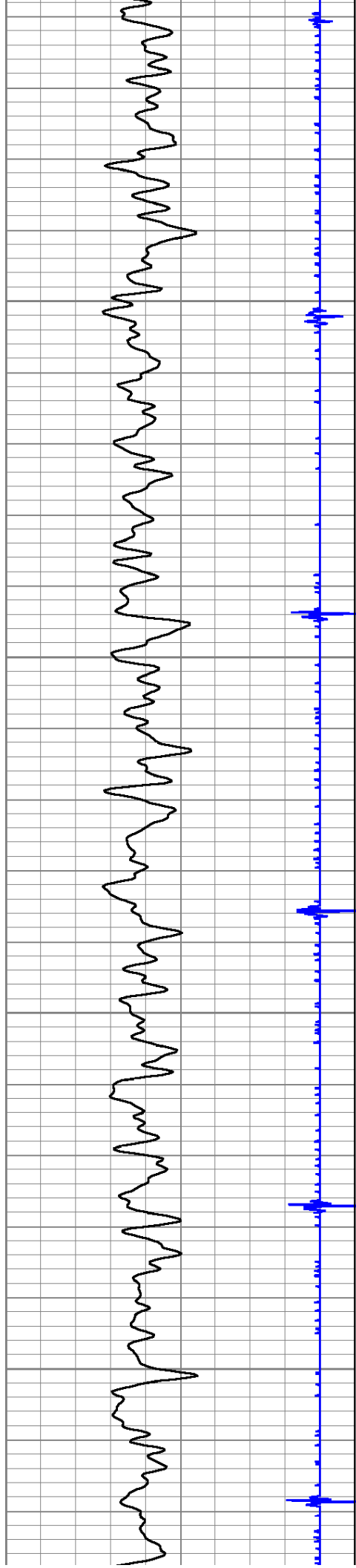
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5500

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5600



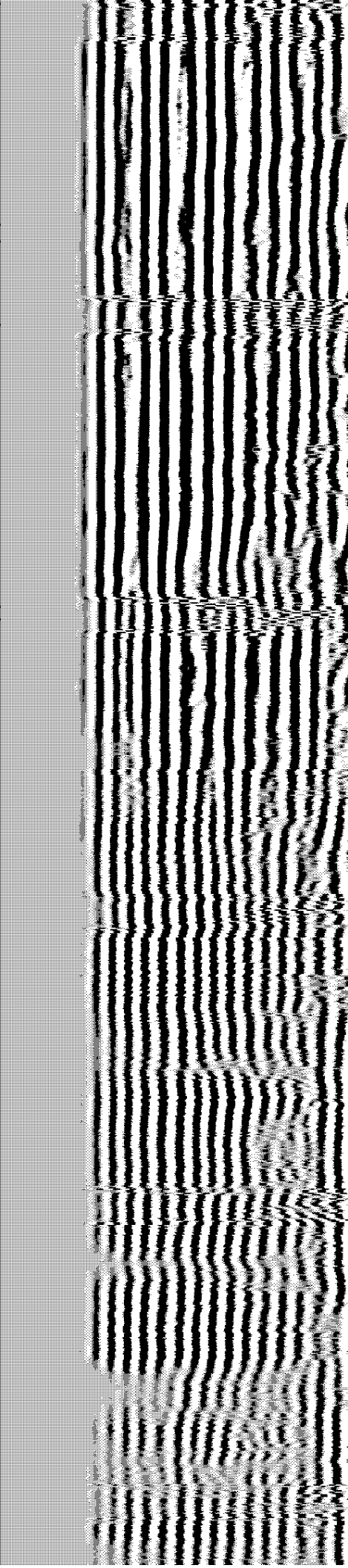
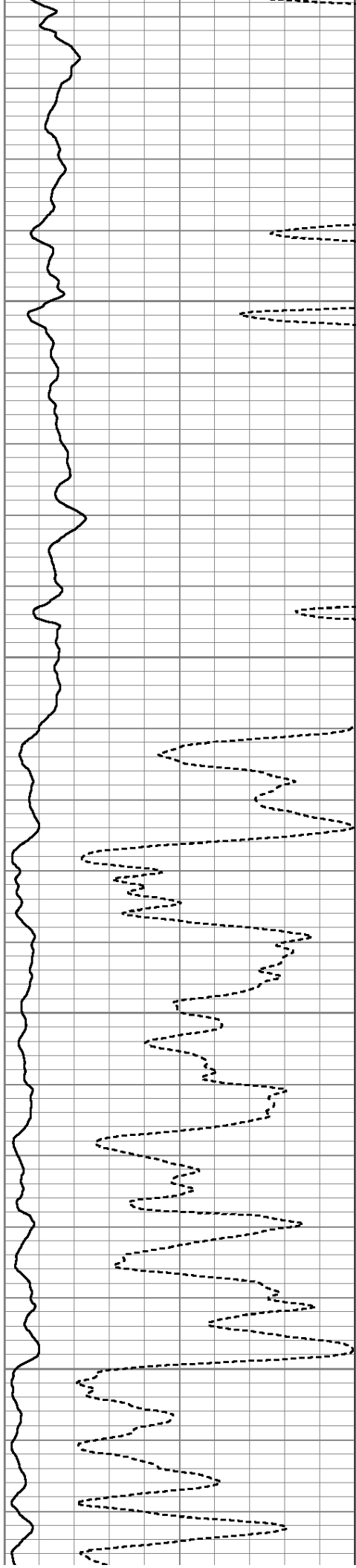


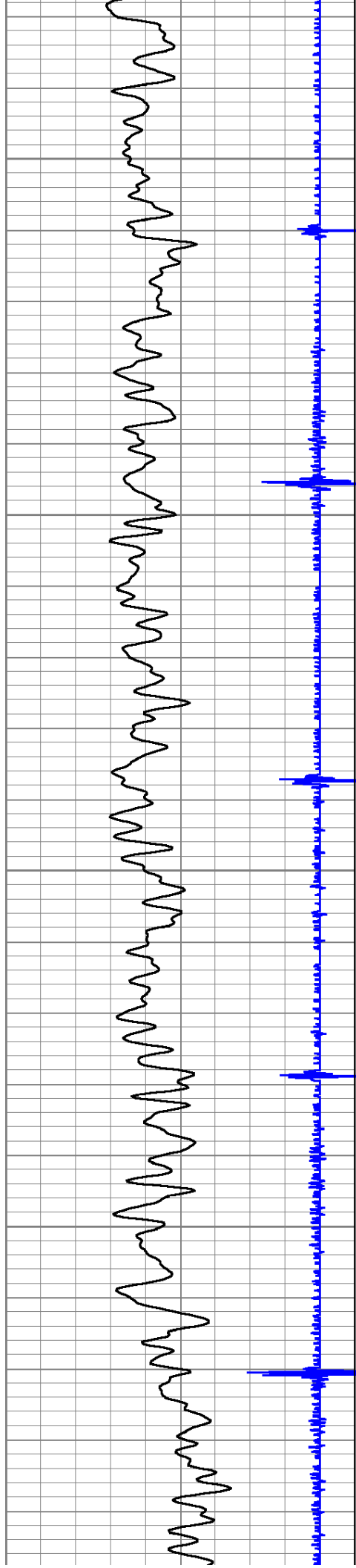
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5800



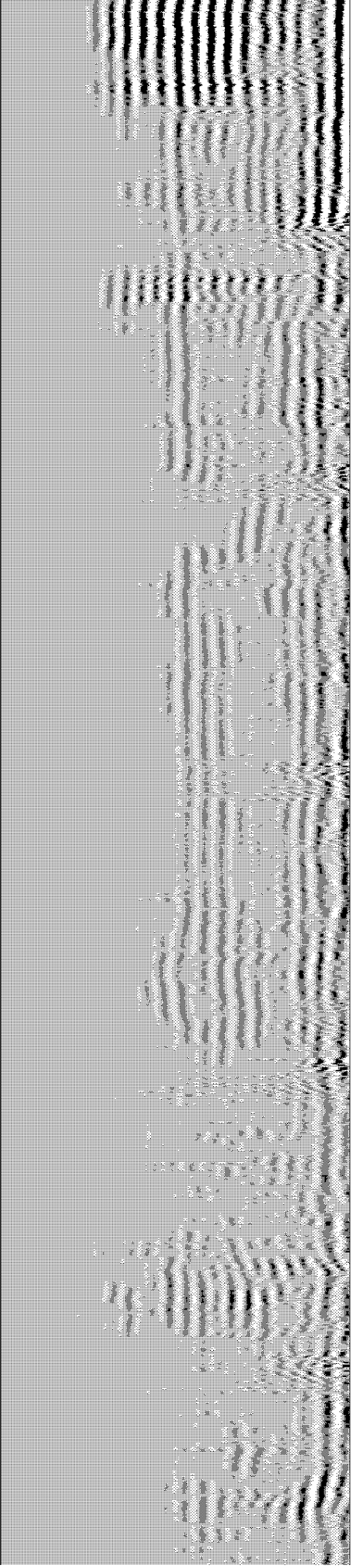
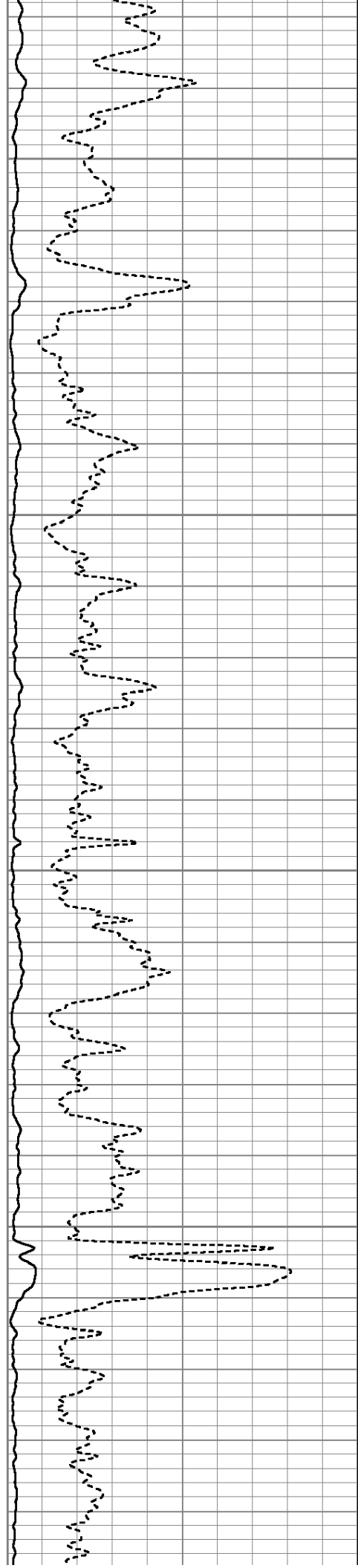


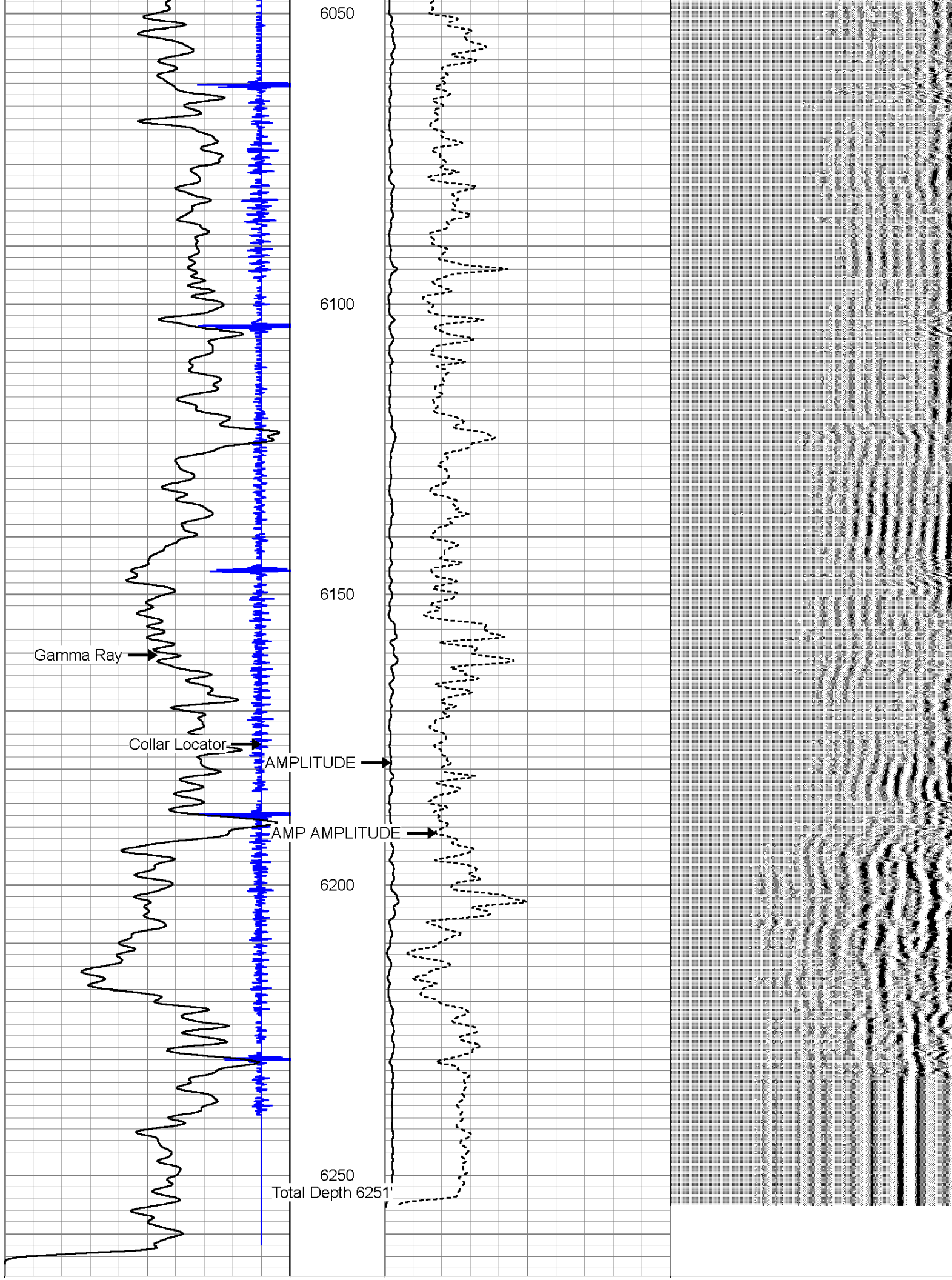
5850

5900

5950

6000





9	Collar Locator	-1
0	Gamma Ray (GAPI)	200

0	AMP AMPLITUDE (mV)	10
0	AMPLITUDE (mV)	100

200

VDL

1200



Main Pass



Repaet Pass

Database File: 05123395450000_pronghorn_21_24_22hnb_cbl.db
 Dataset Pathname: pass3
 Presentation Format: cbl_drs
 Dataset Creation: Sat Feb 07 10:09:10 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

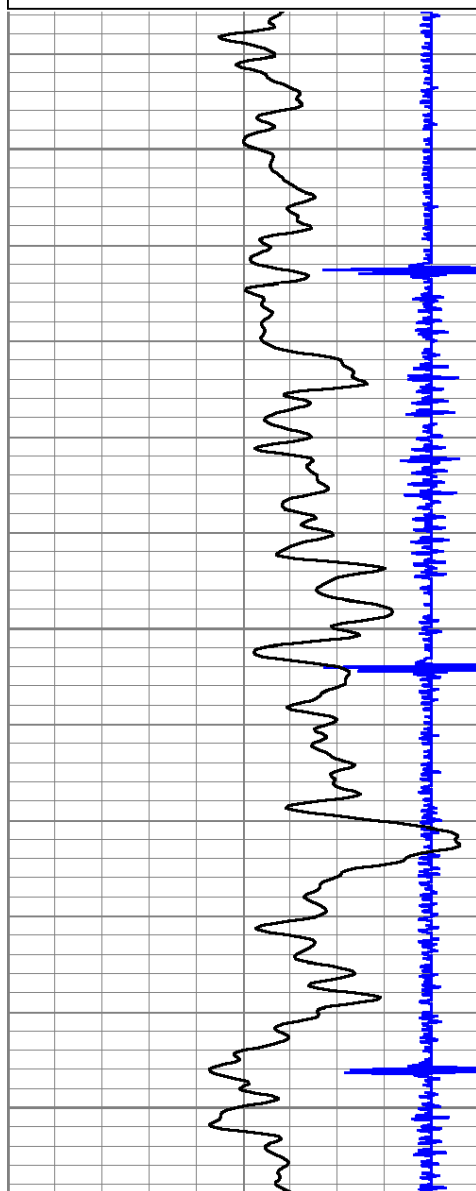
9	Collar Locator	-1
0	Gamma Ray (GAPI)	200

0	AMP AMPLITUDE (mV)	10
0	AMPLITUDE (mV)	100

200

VDL

1200



6050

6100

6150

