



# CEMENT BOND LOG CCLV/DL GAMMA RAY

Pioneer Energy Services

Company ANADARKO PETROLEUM CORP  
Well WEBBER ELMER "A" #1  
Field WATTENBERG  
County WELD  
State COLORADO Country USA

Location: API # : 05-123-09345

Other Services

Permanent Datum SEC 10 TWP 3N RGE 66W SW/SW  
Log Measured From Elevation 4856'  
Drilling Measured From Elevation 4866'  
K.B. 4866'  
D.F. 4856'  
G.L. 4856'

Date 4/9/2014

Run Number	1
Depth Driller	NA
Depth Logger	7100'
Bottom Logged Interval	7100'
Top Log Interval	SURFACE
Open Hole Size	8.63"
Type Fluid	WATER
Density / Viscosity	8.33
Max. Recorded Temp.	NA
Estimated Cement Top	7000'
Time Well Ready	14:00
Time Logger on Bottom	15:00
Equipment Number	24
Location	FORT MORGAN
Recorded By	TIM REESE
Witnessed By	TRAUX

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

Casing Record	Size	Mgt/Ft	Top	Bottom
Surface String	8.625"	24	SURFACE	760'
Prot. String	4.5"	11.6	SURFACE	7434'
Production String				
Liner				

<<< Fold Here >>>

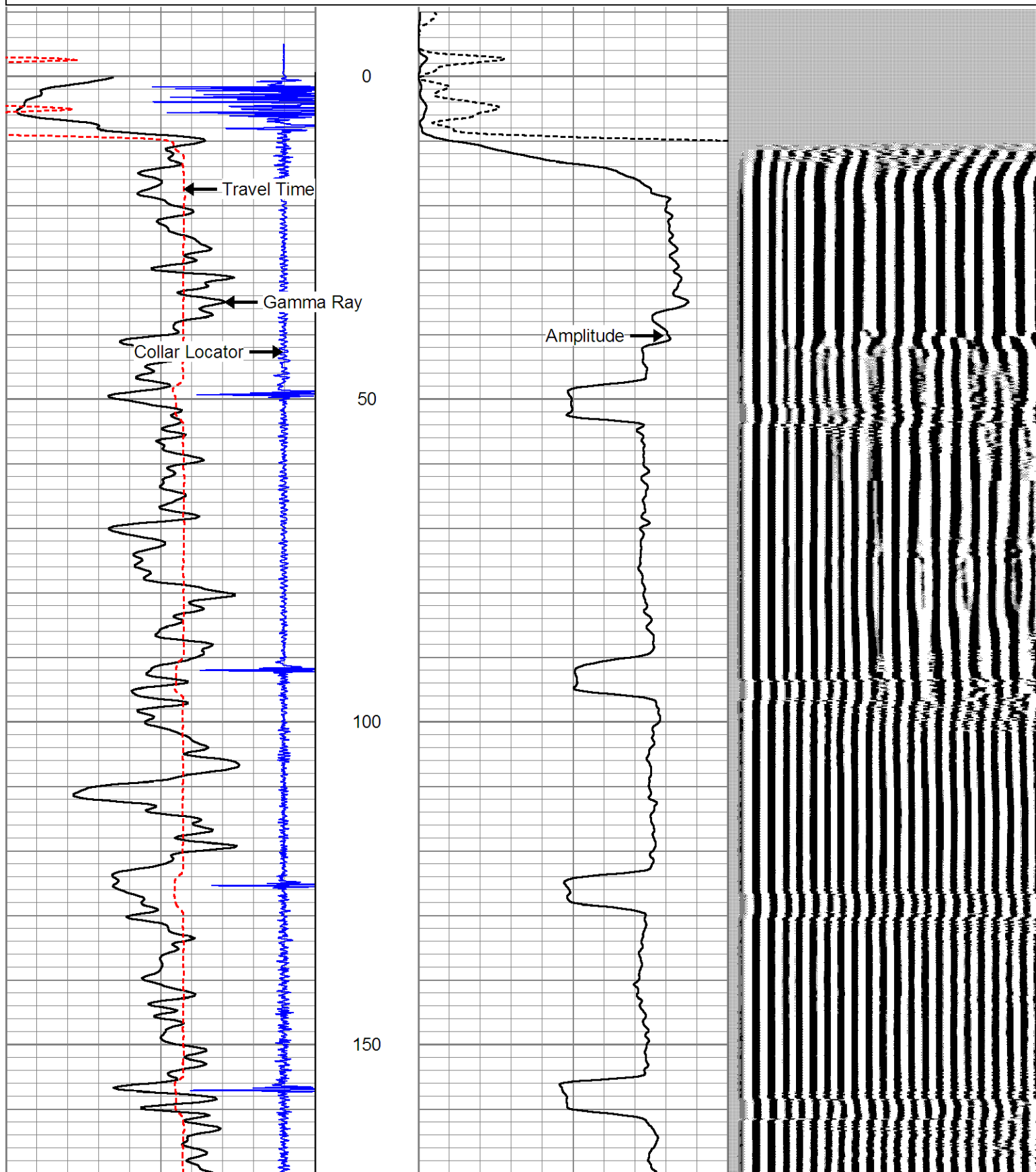
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

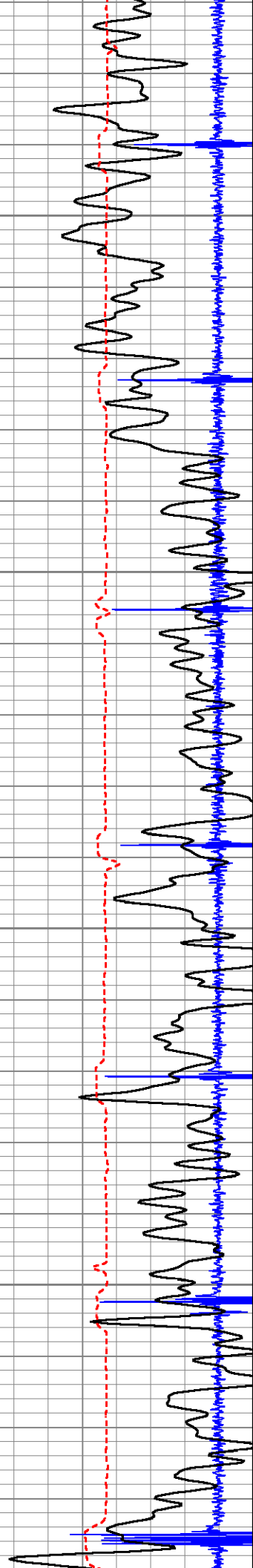
## Comments

THANKYOU FOR USING PIONEER ENERGY  
2-250032

Database File: webber elmer a #1.db  
Dataset Pathname: pass4  
Presentation Format: cbl\_dr  
Dataset Creation: Wed Apr 09 15:06:39 2014 by Log 7.0 B1  
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	Line Tension	0	Amplified Amplitude (mV)	10	200	Variable Density	1200
0	Gamma Ray (GAPI)	150	0 (lb/1000)	0	Amplitude (mV)	100			
450	Travel Time (usec)	250							



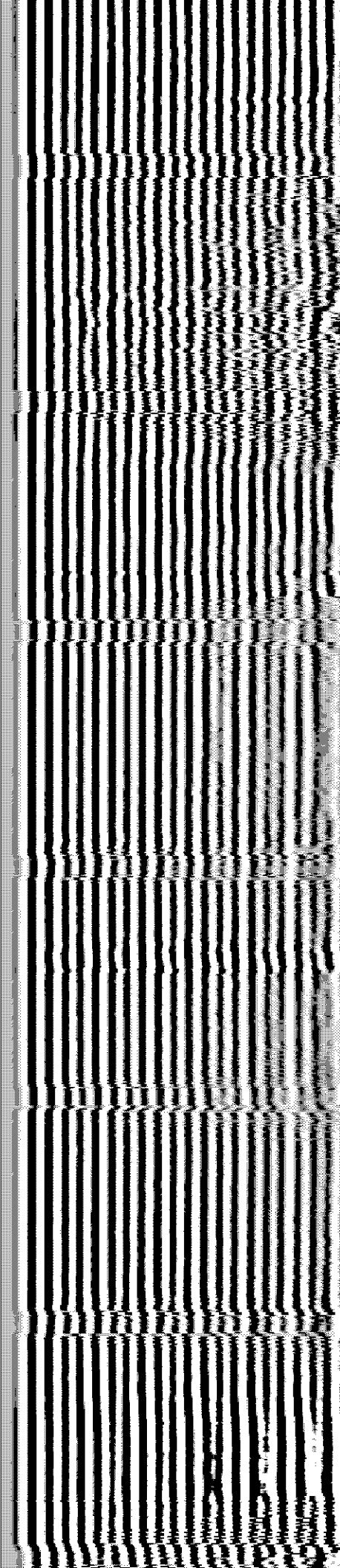
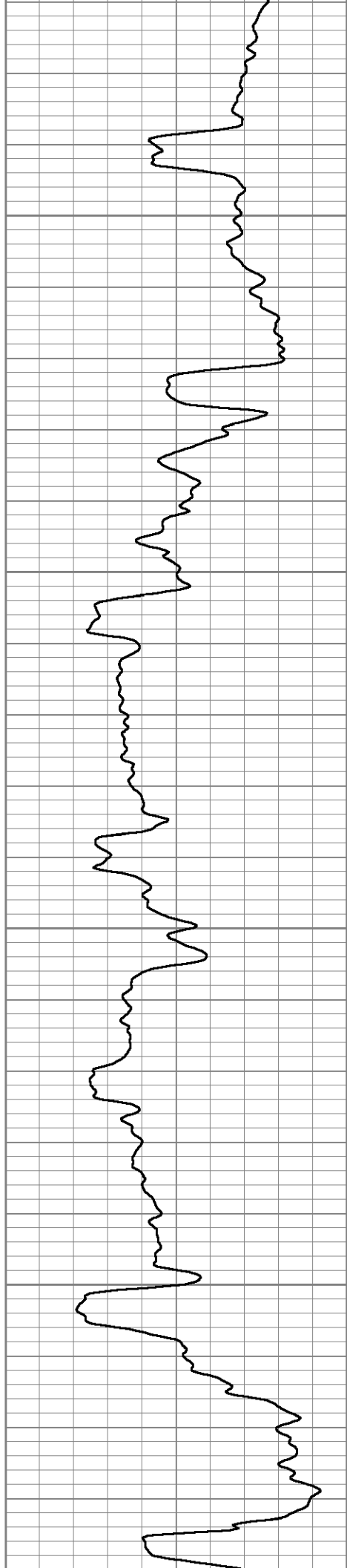


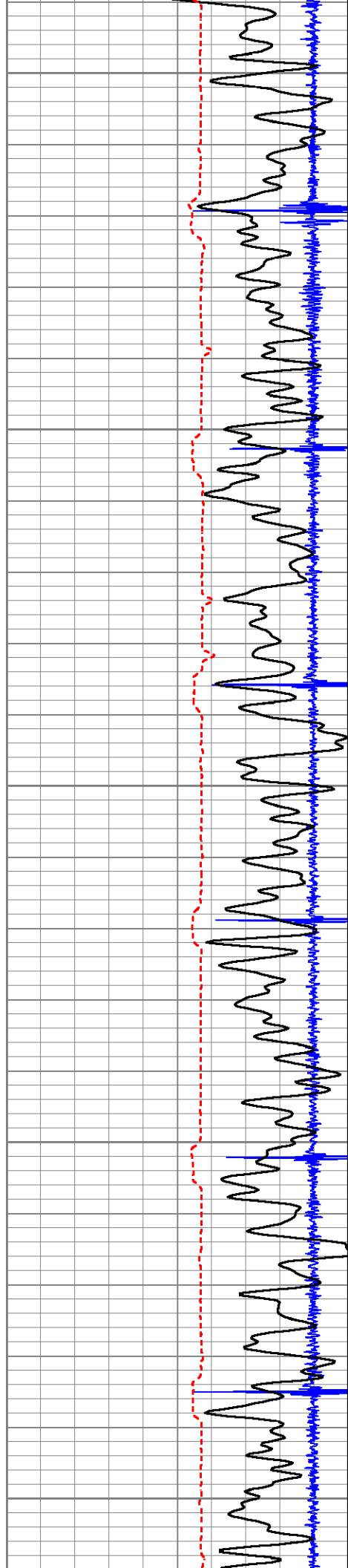
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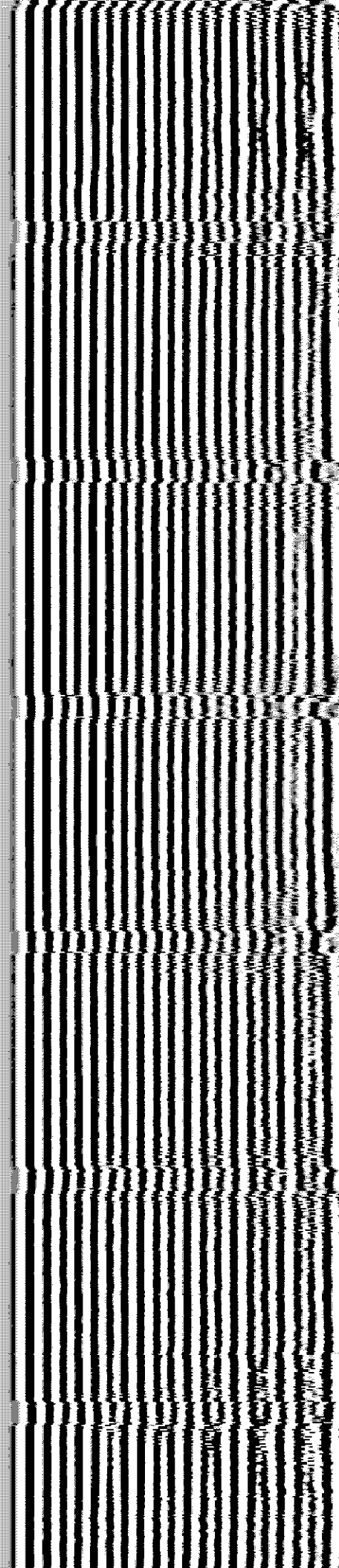
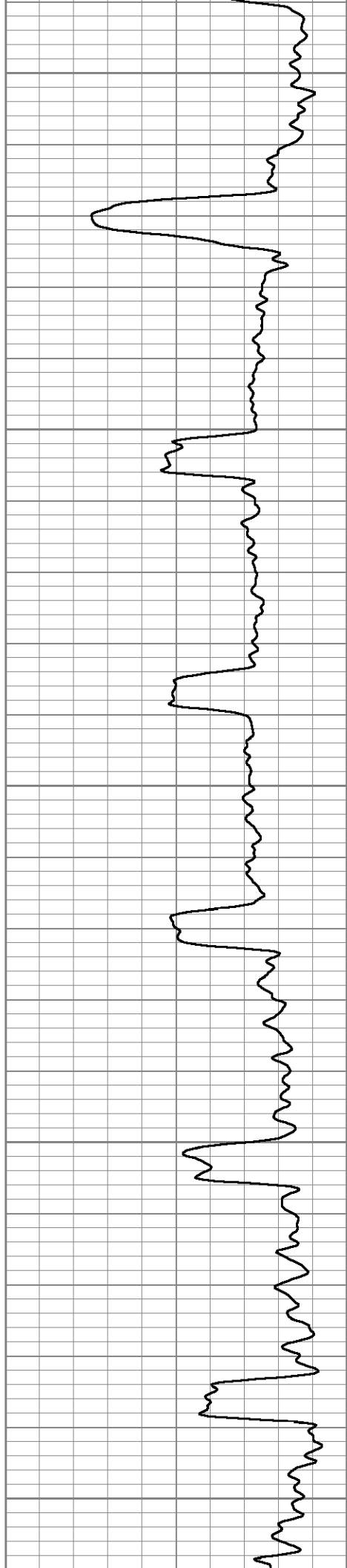
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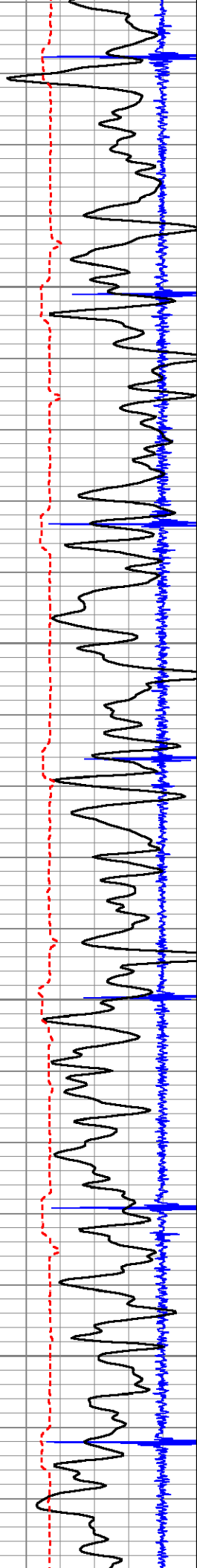
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550

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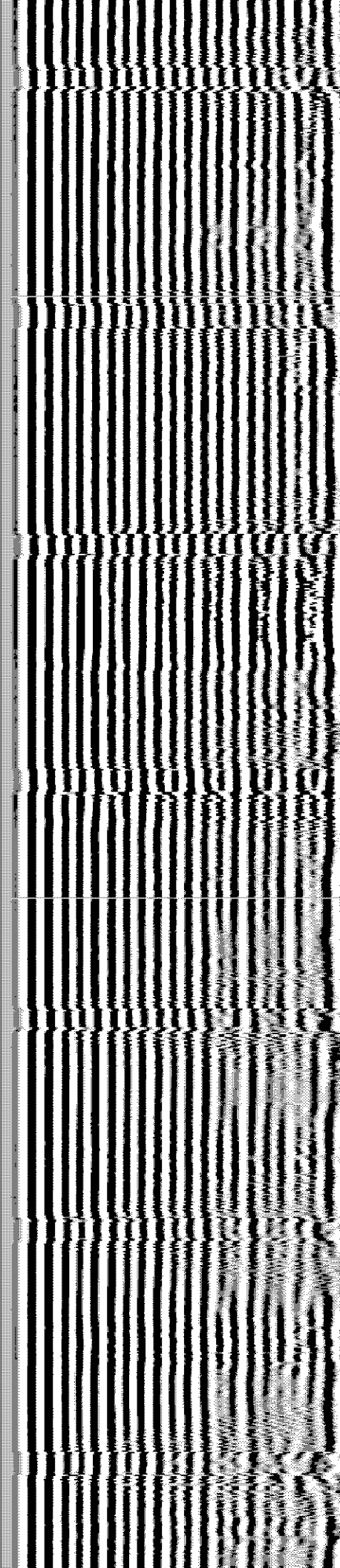
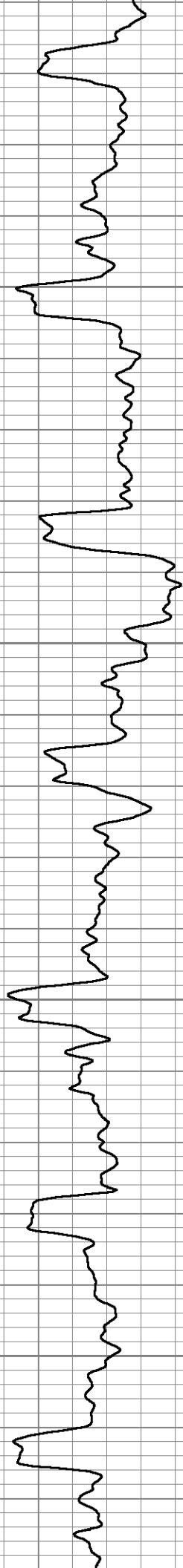


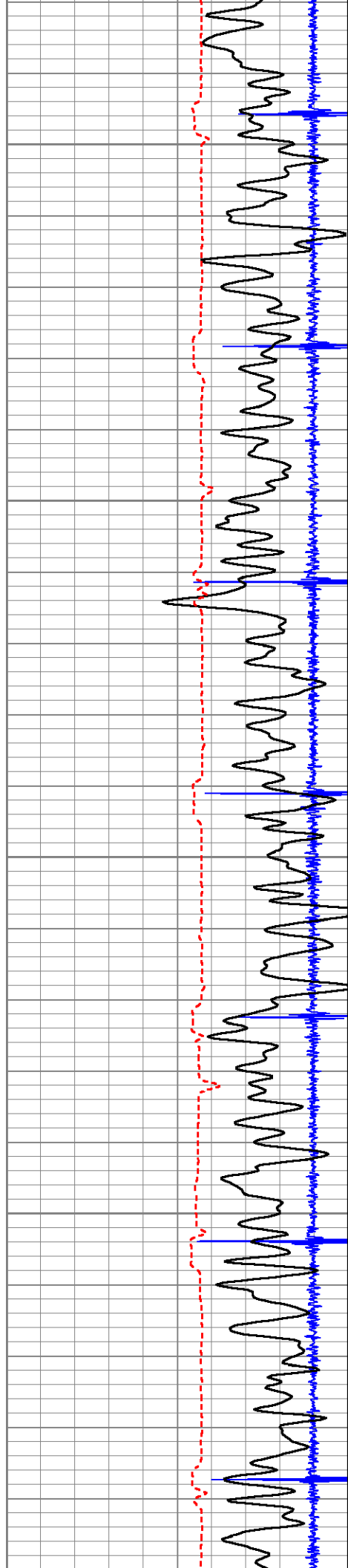
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800





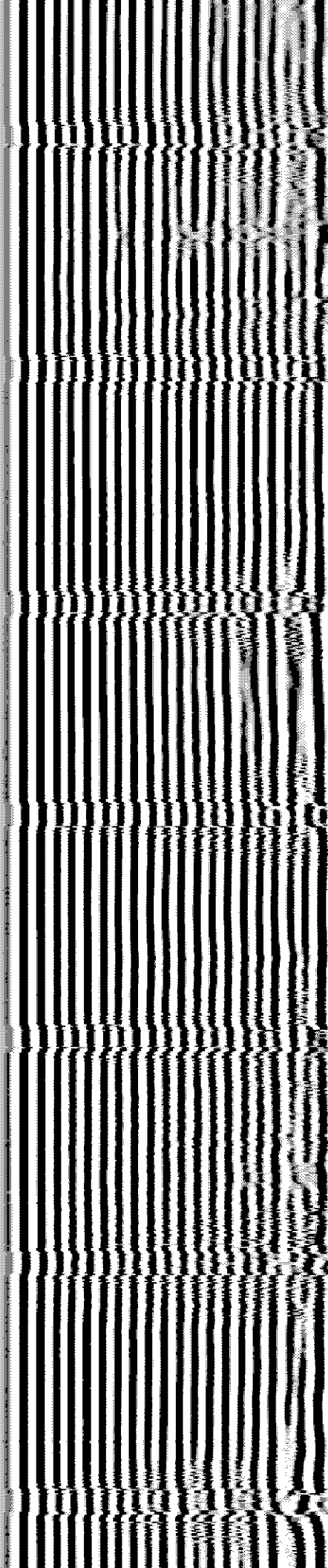
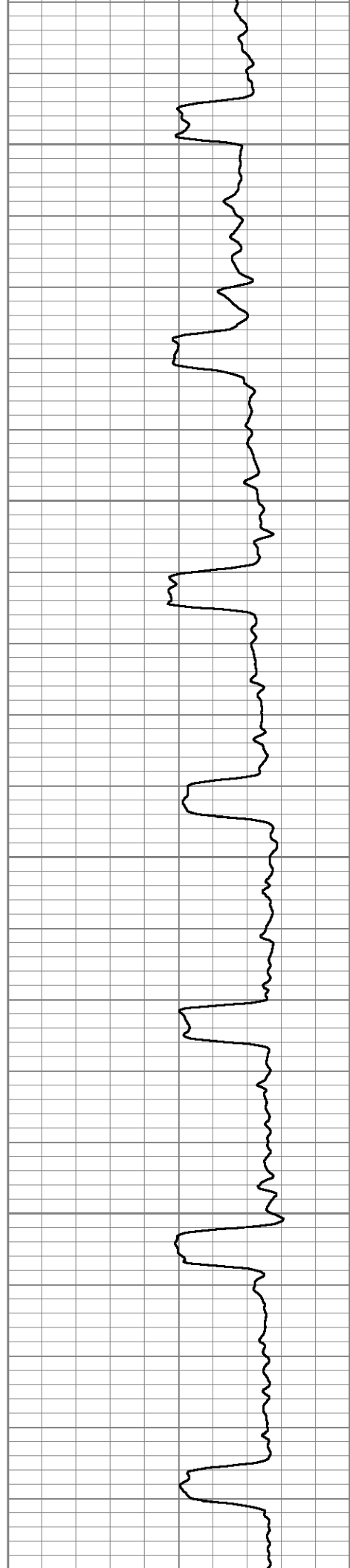
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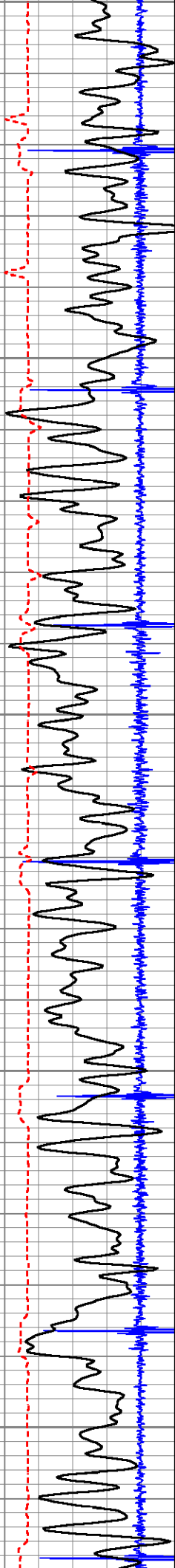
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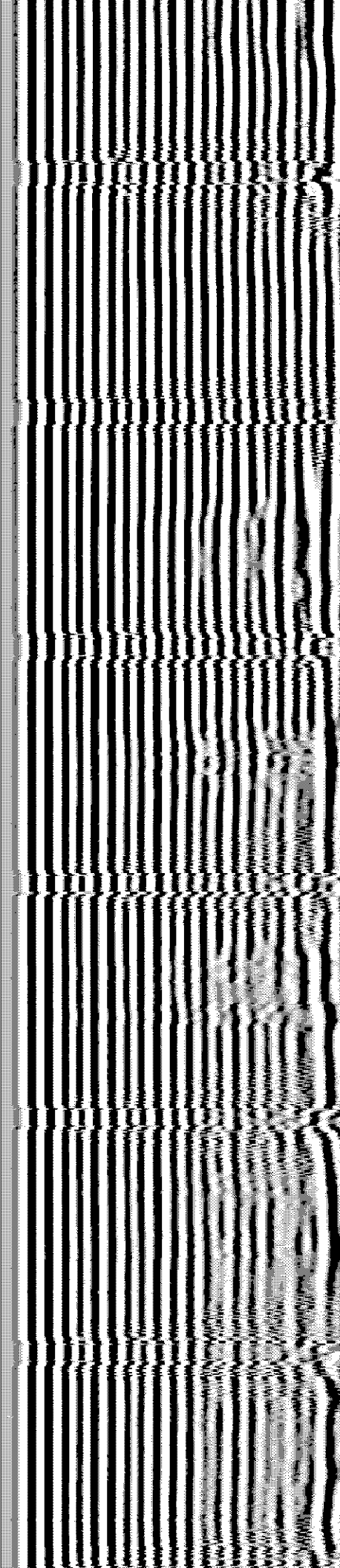
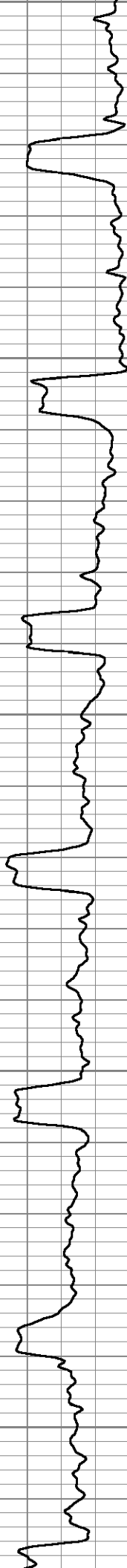
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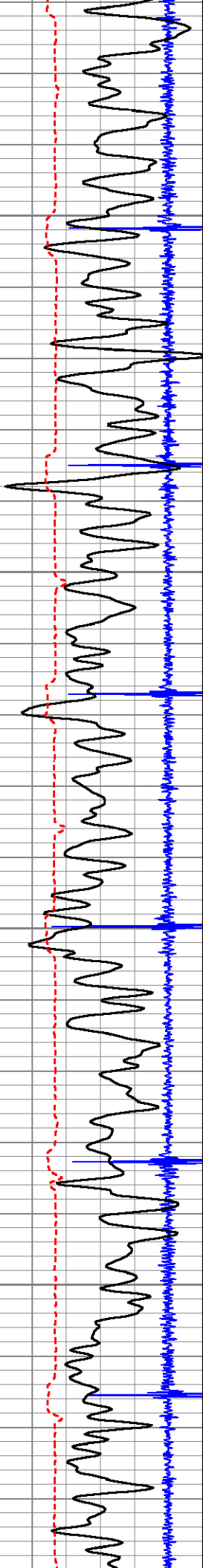
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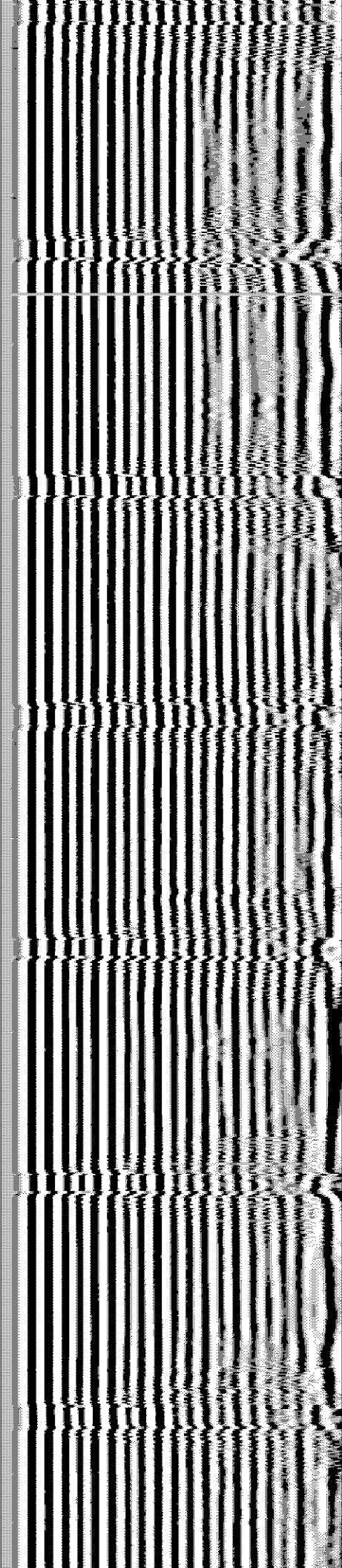
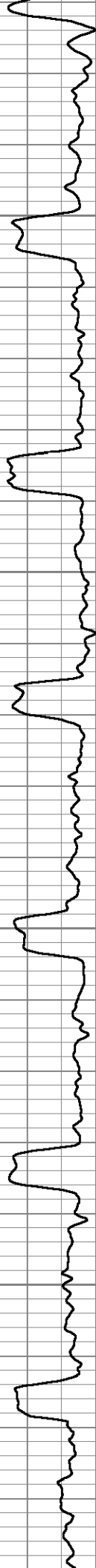


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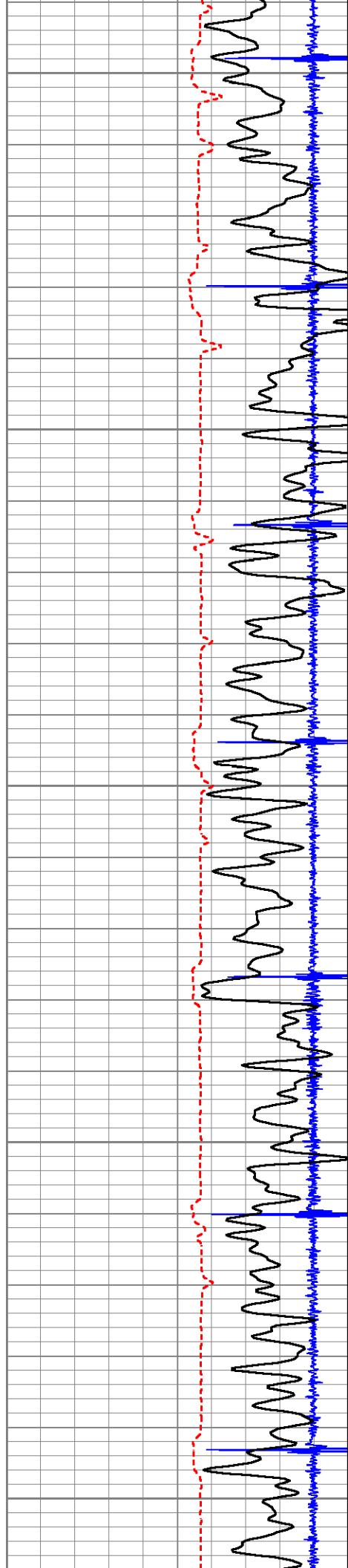
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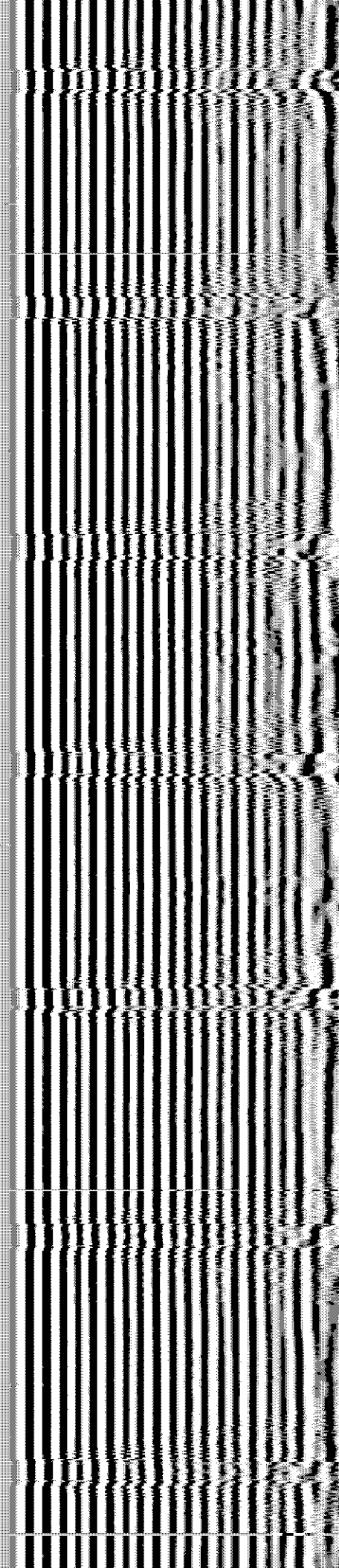
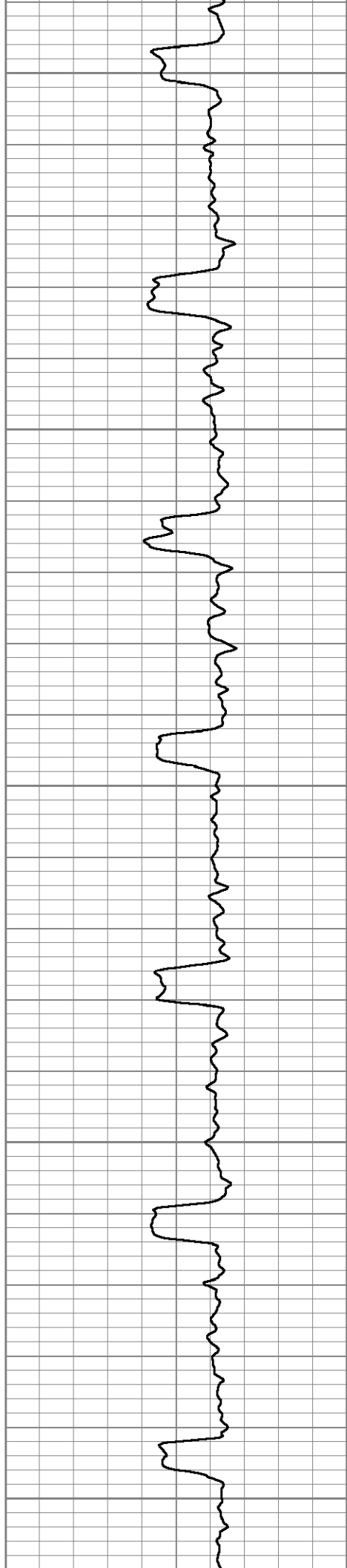
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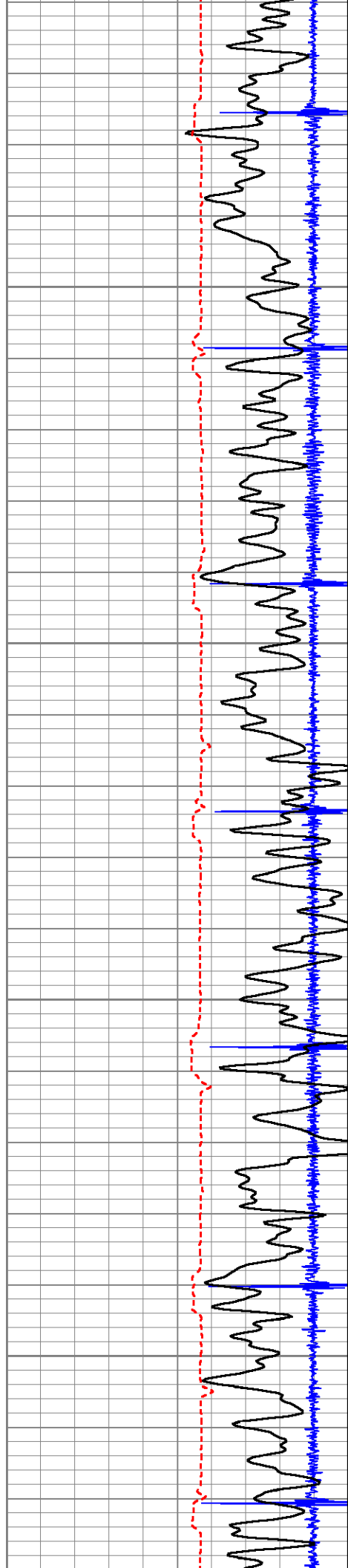
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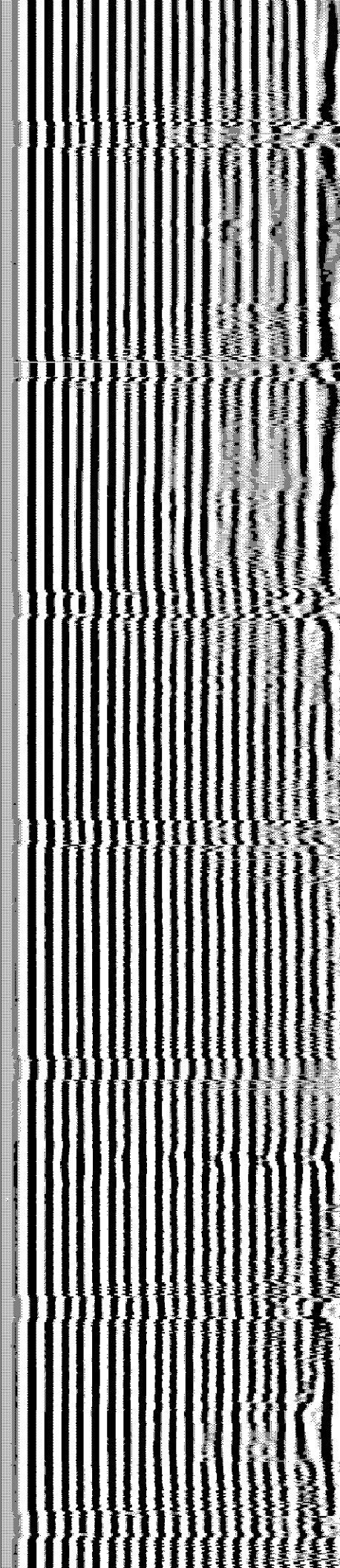
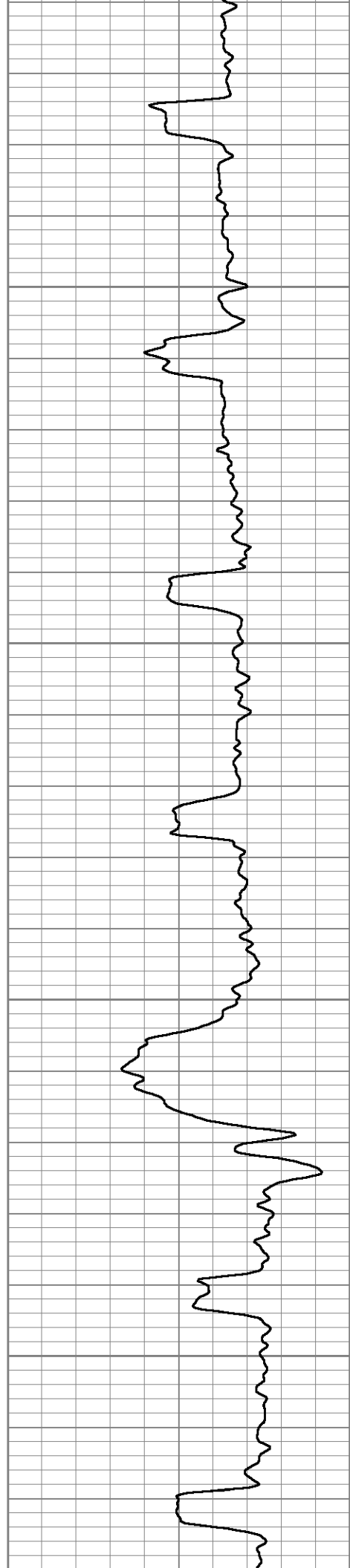


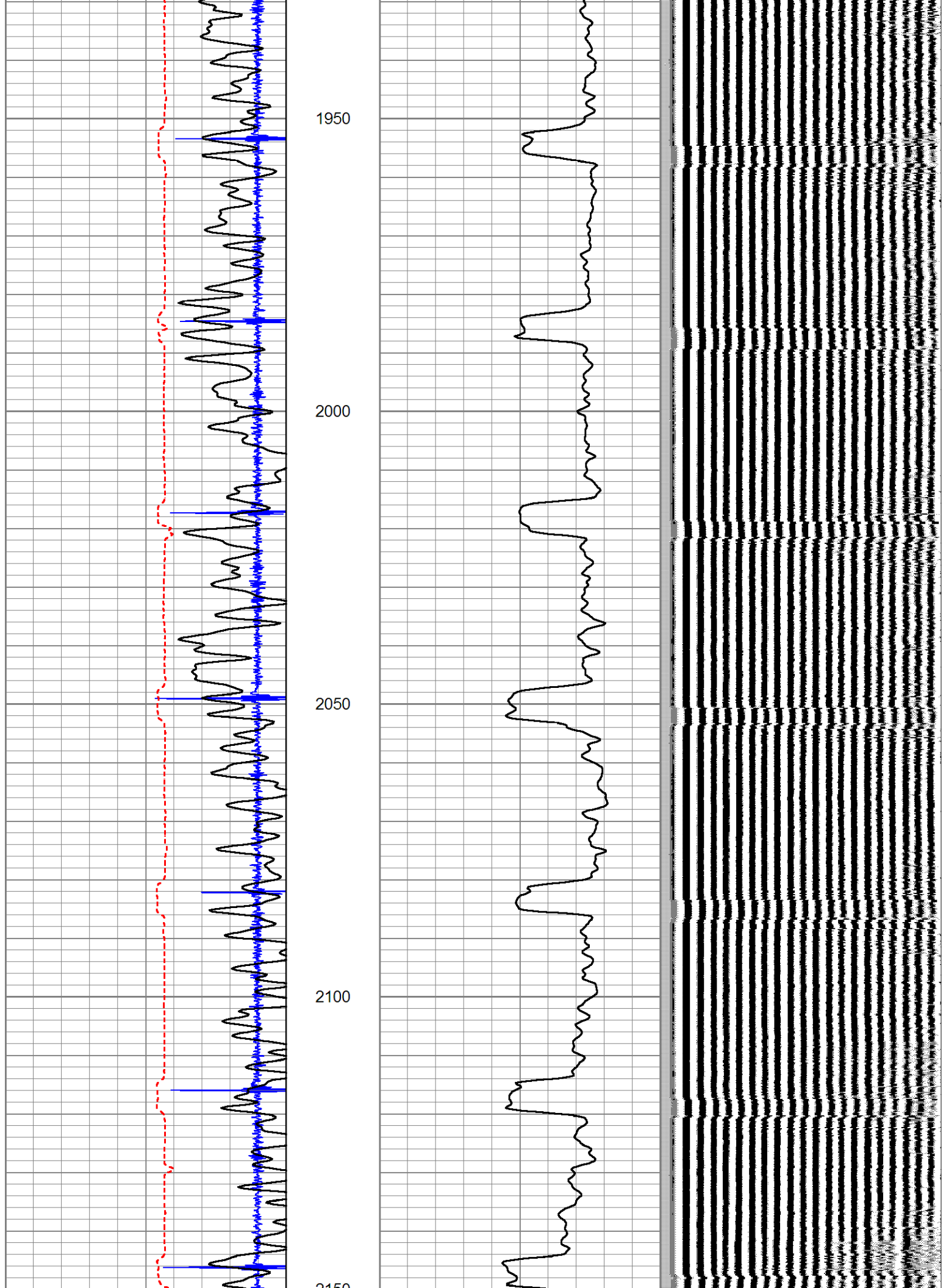
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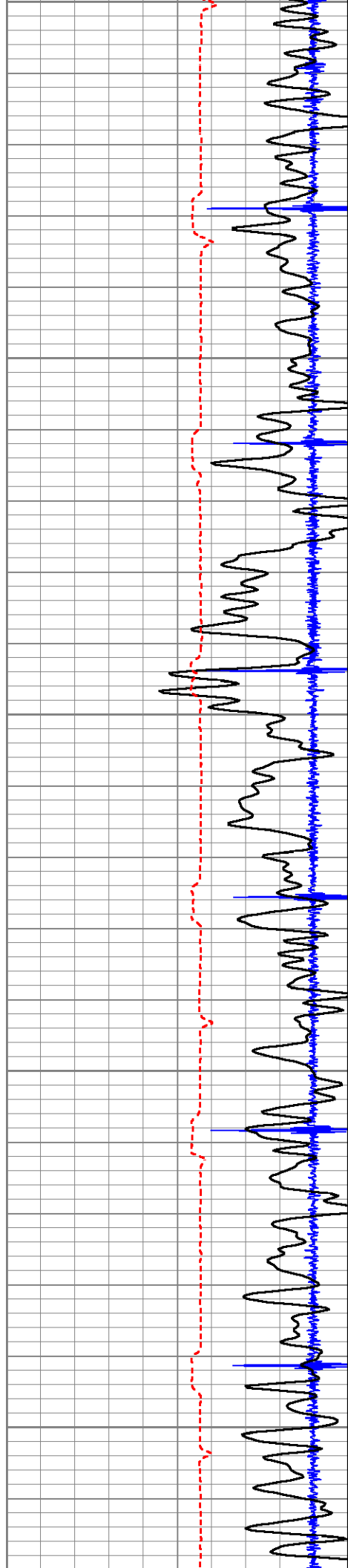
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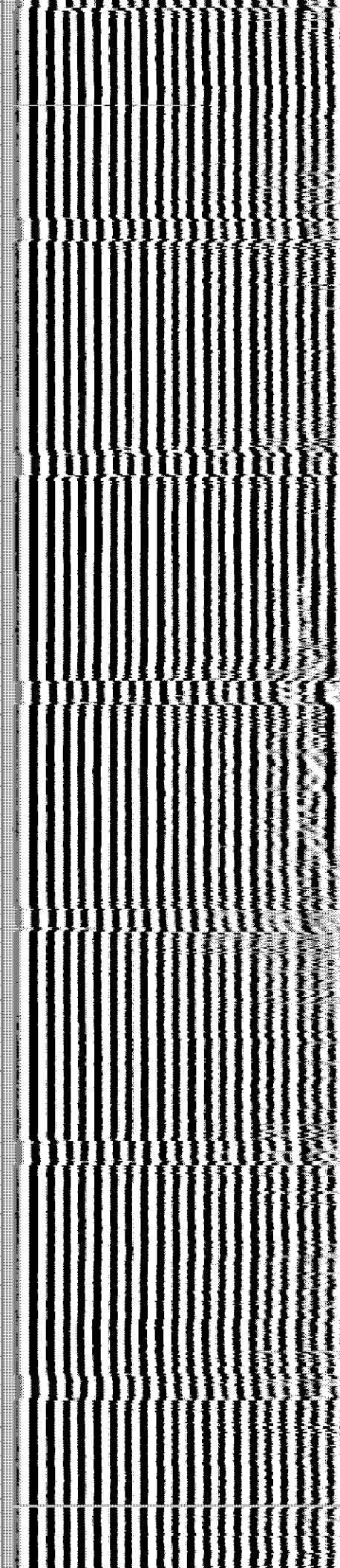
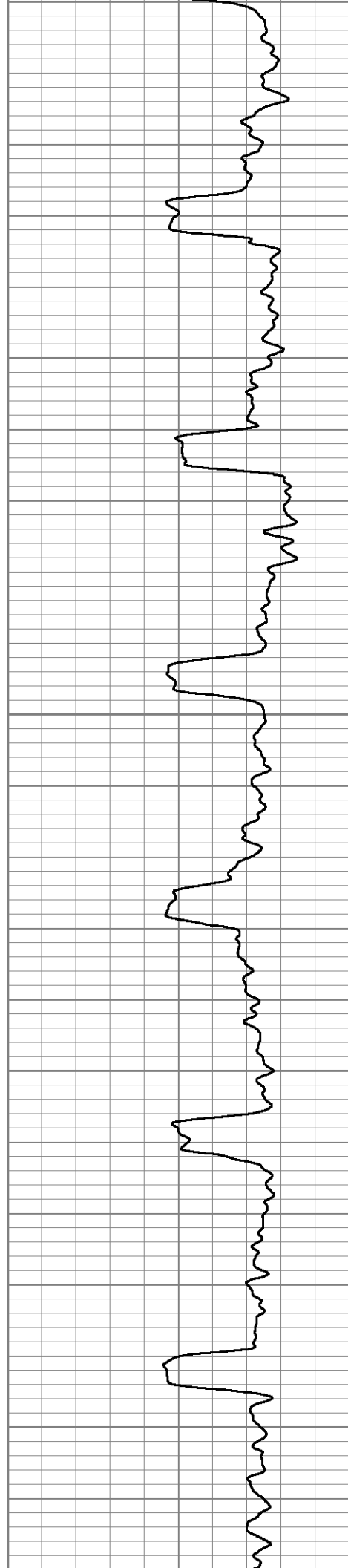
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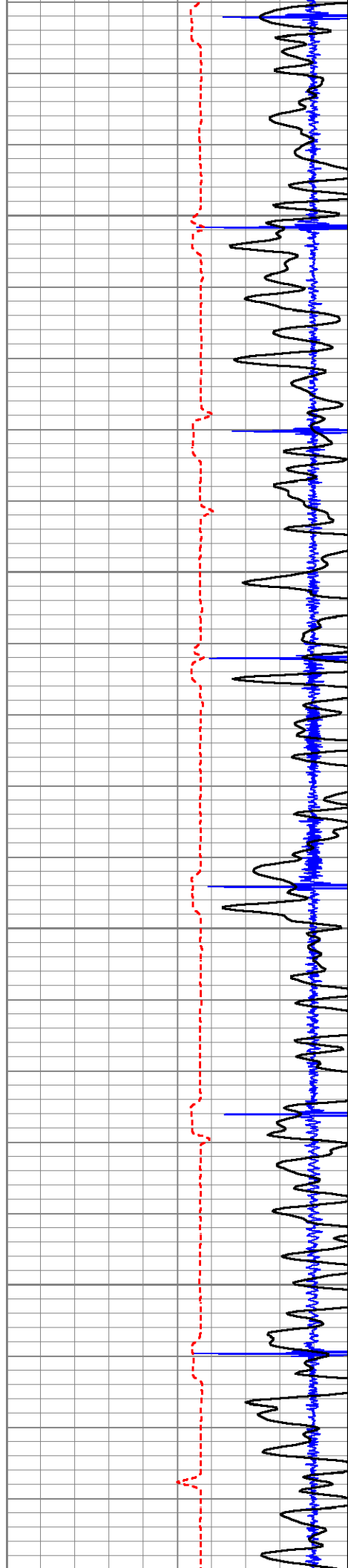
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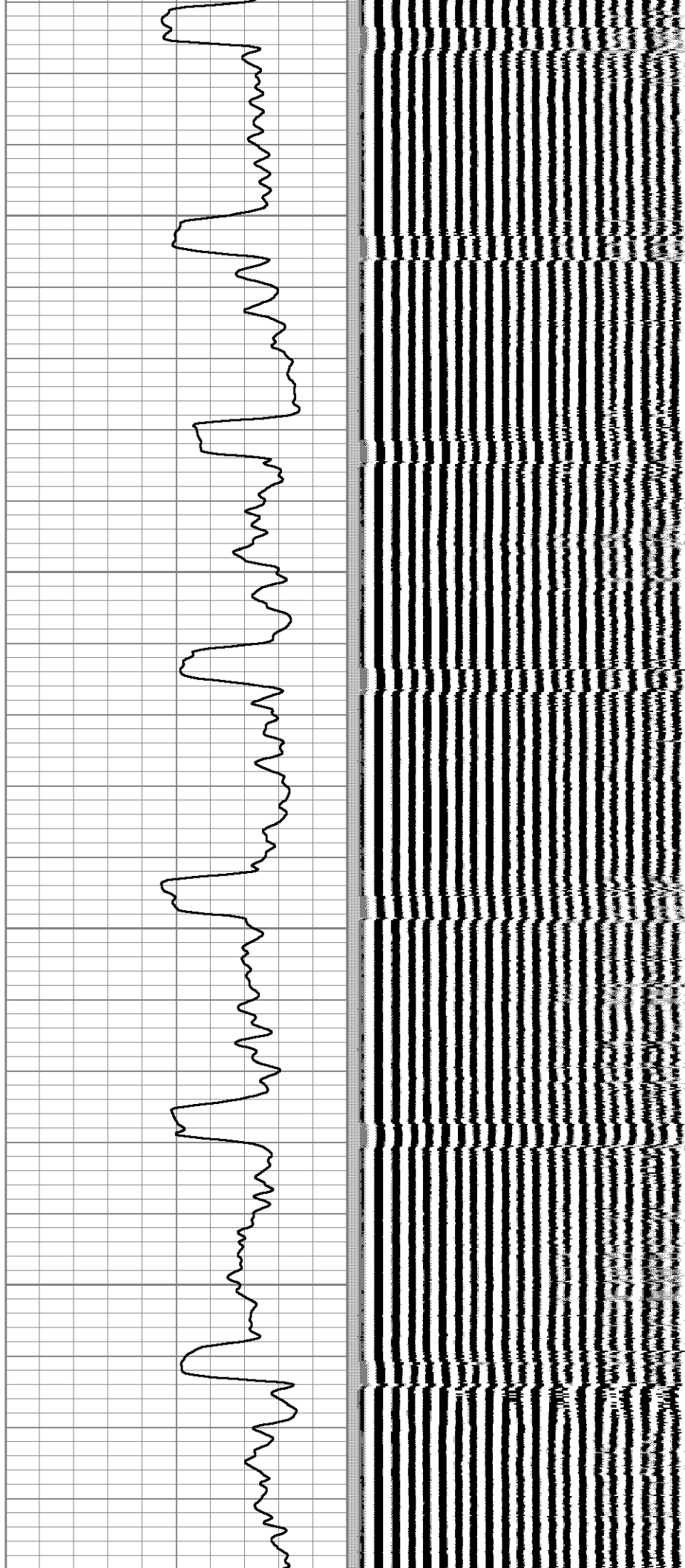


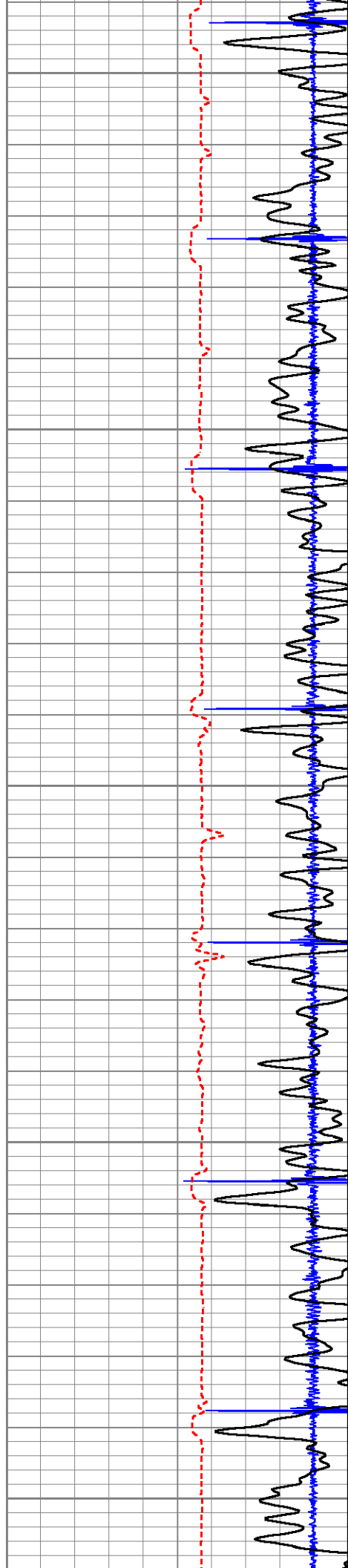
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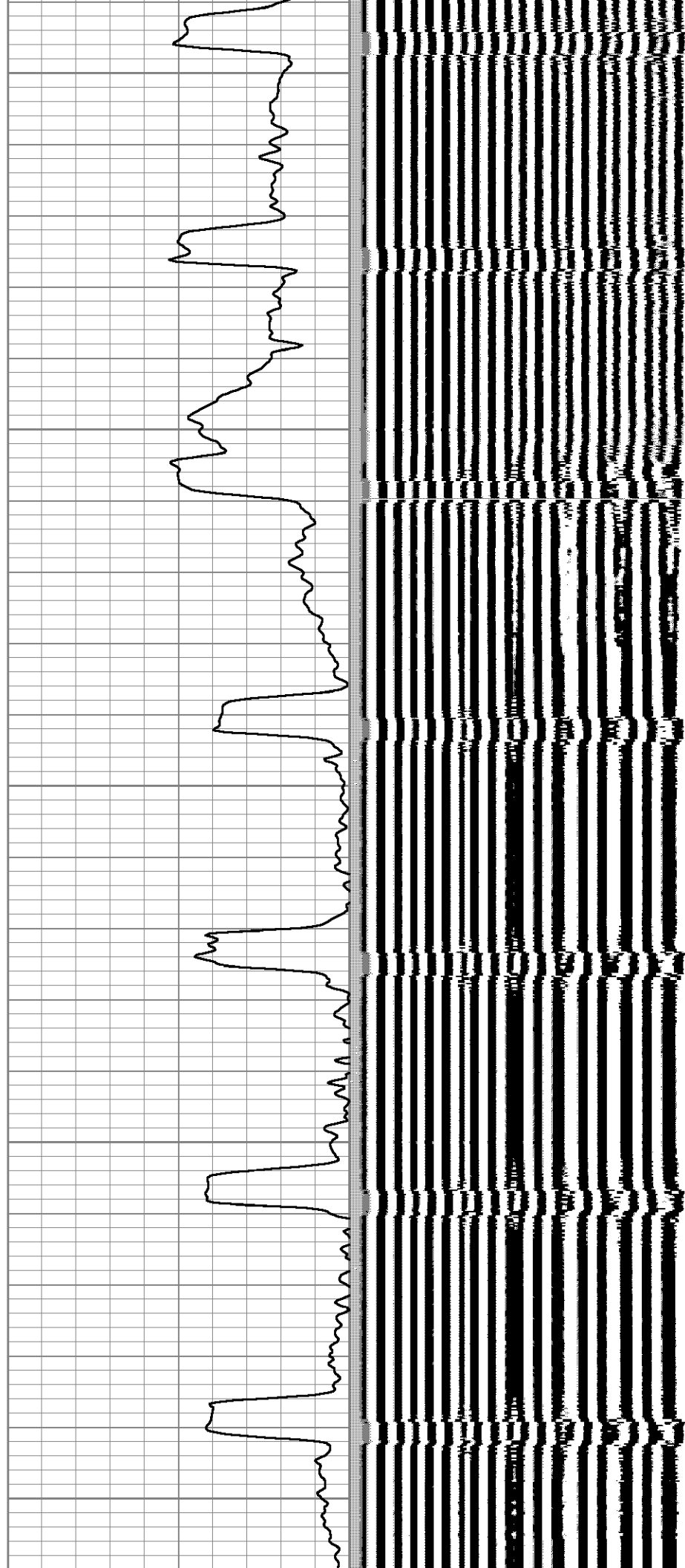
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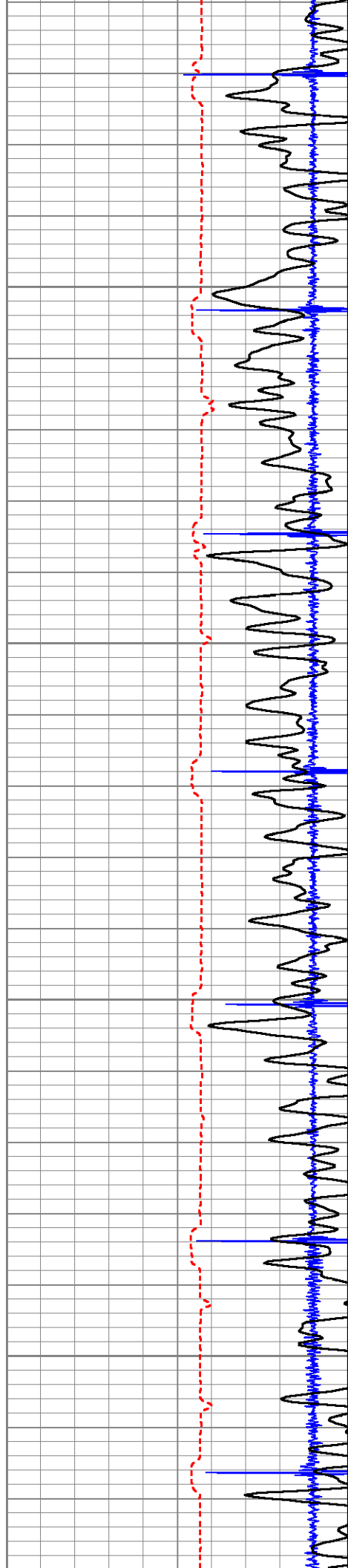
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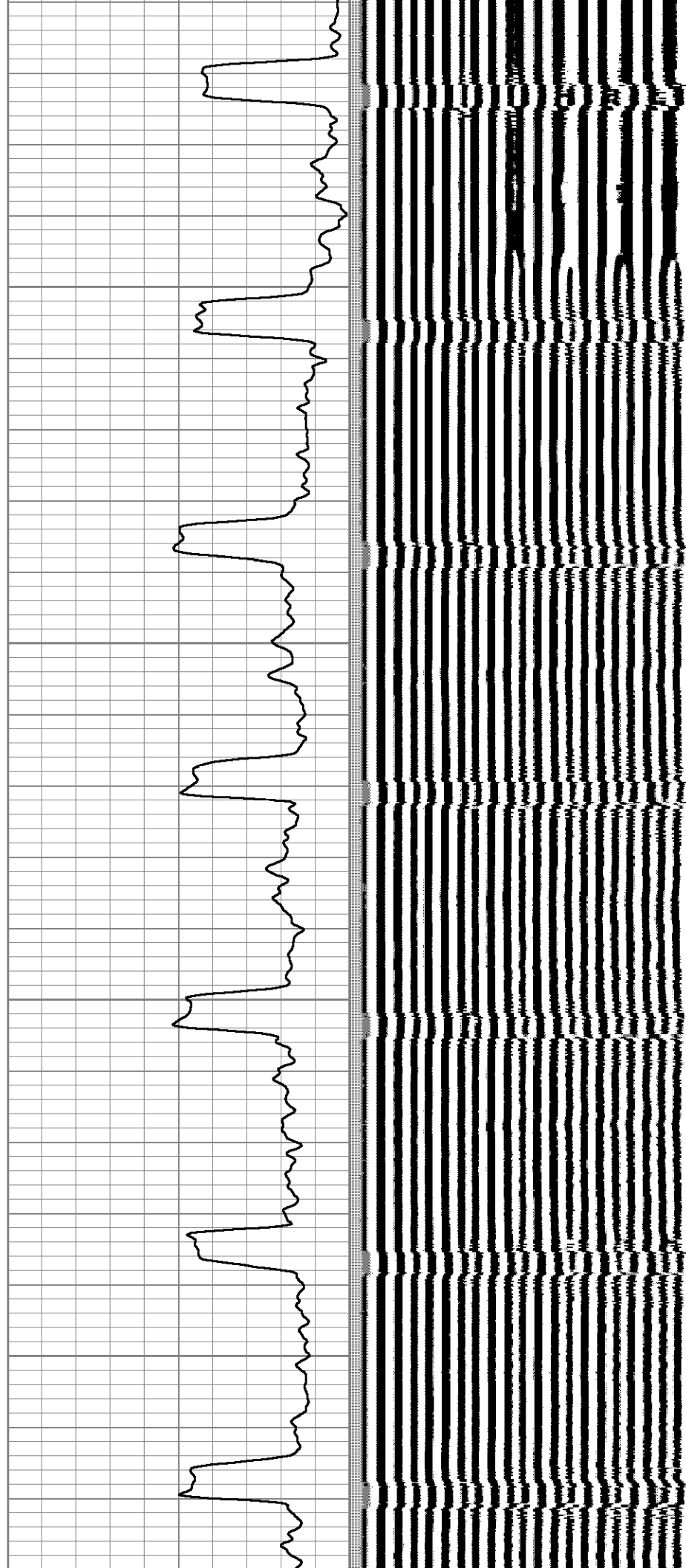


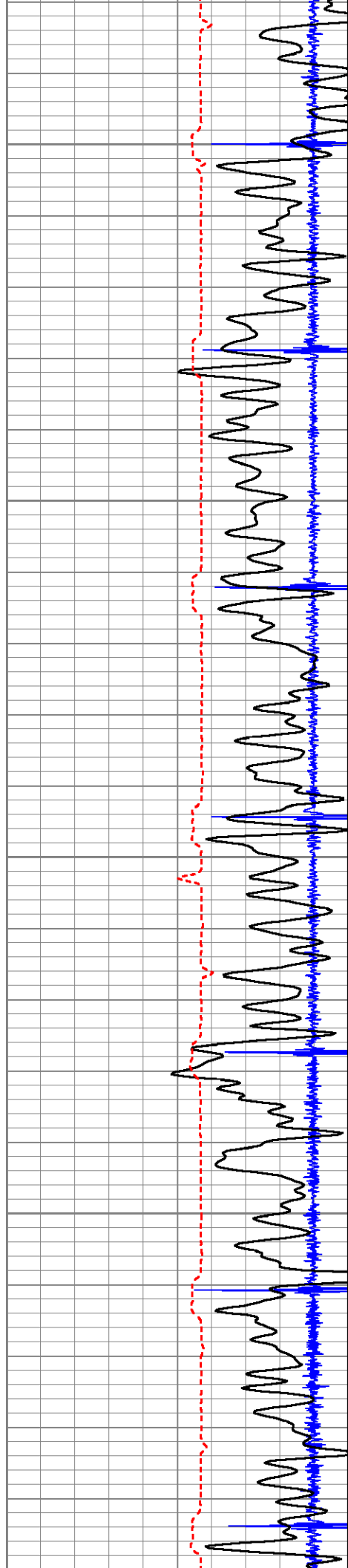
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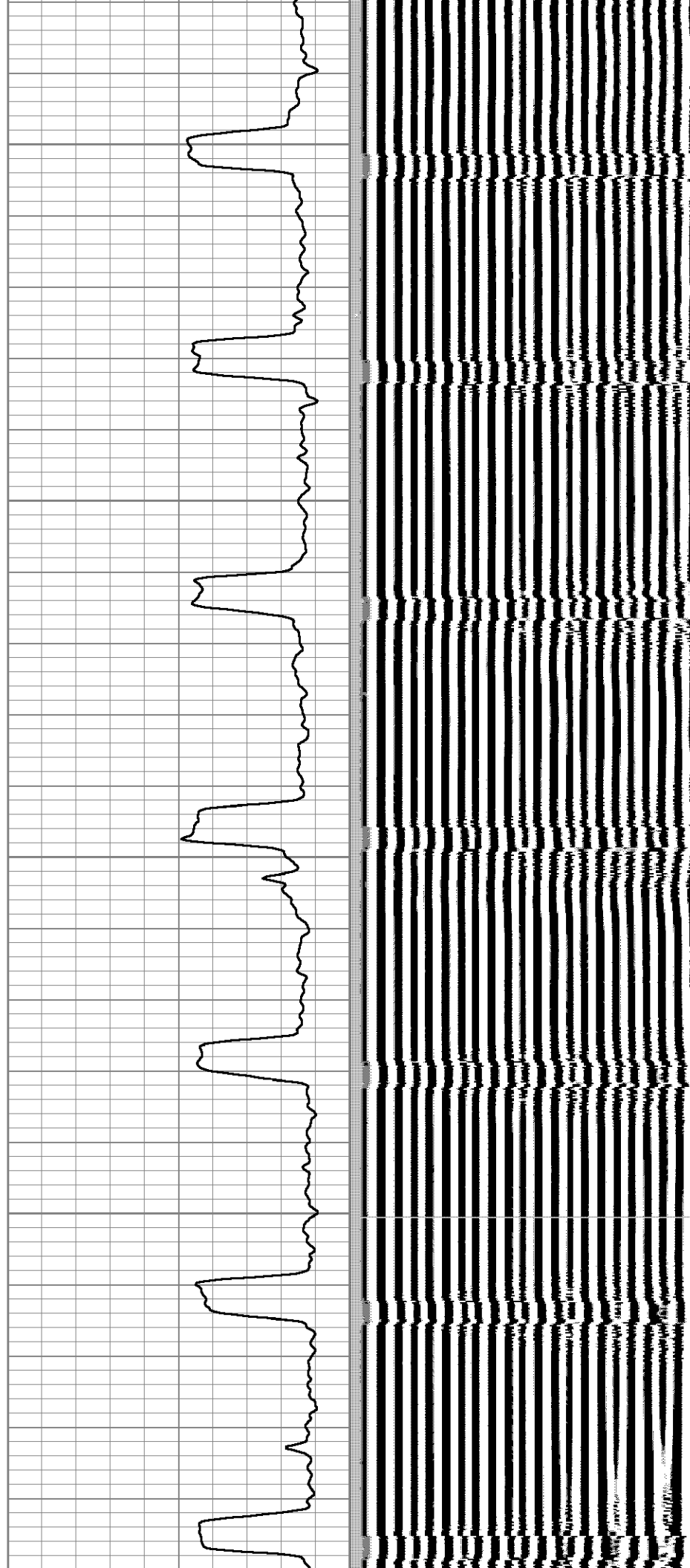
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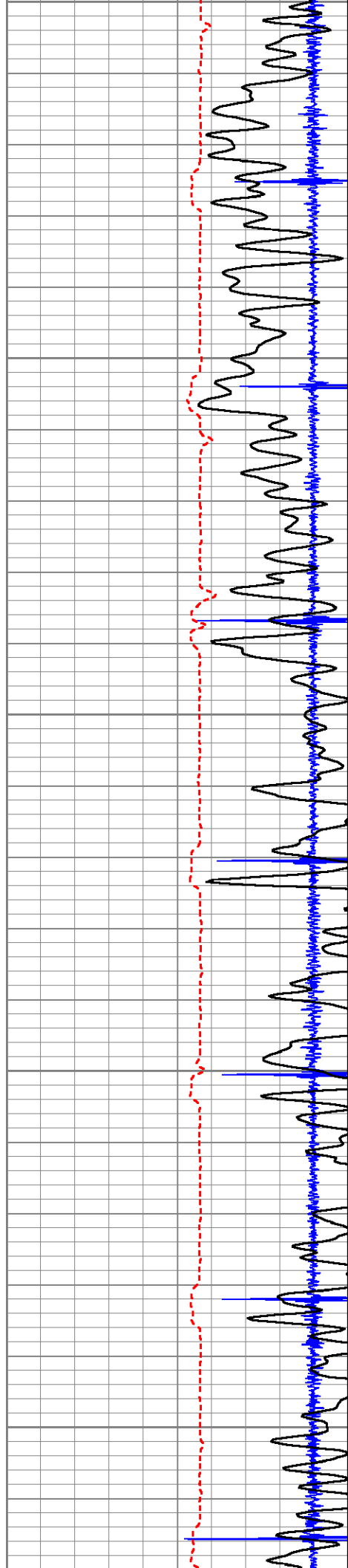
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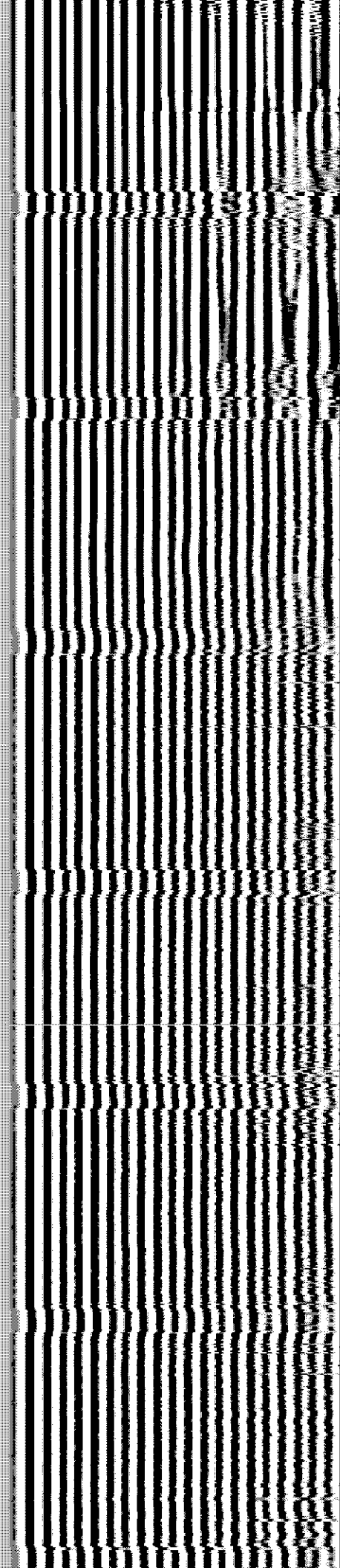
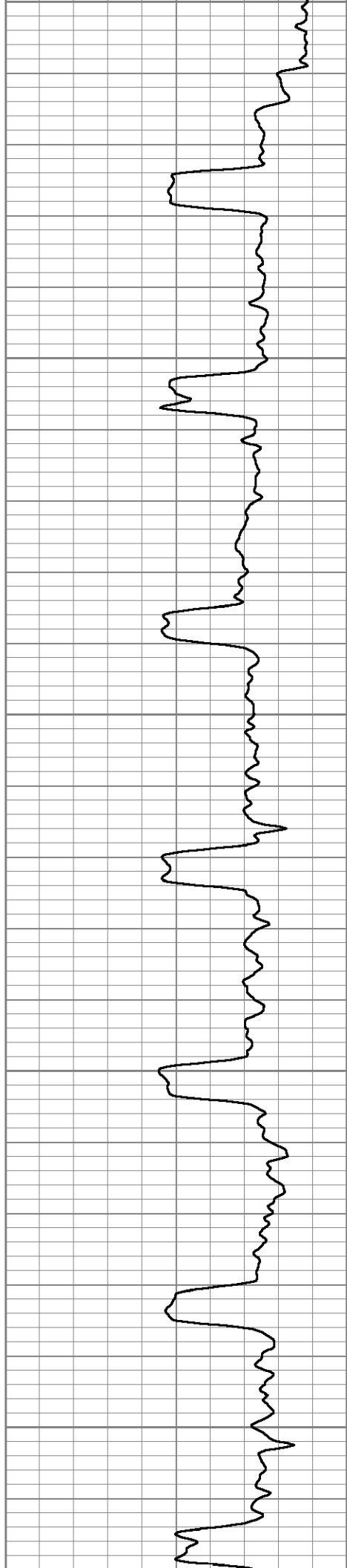
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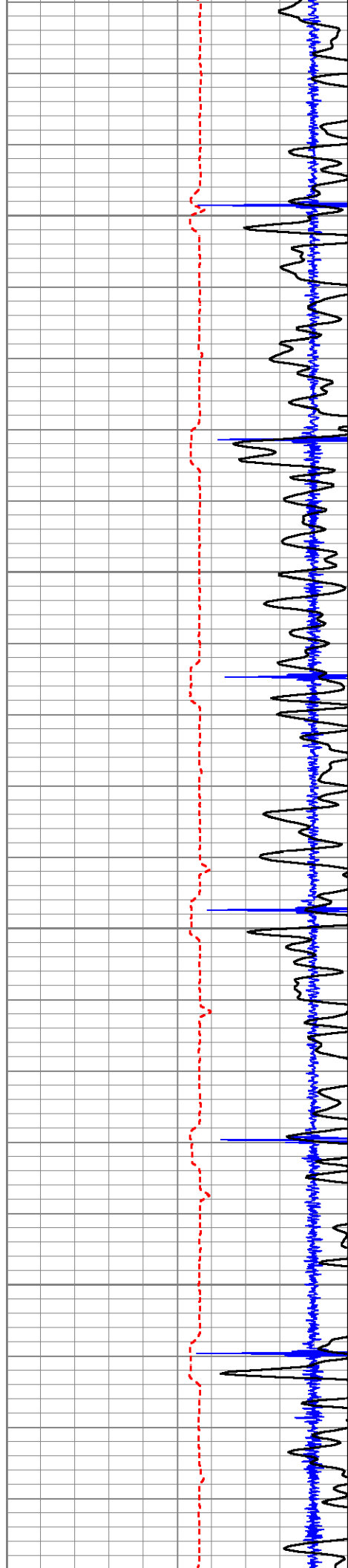
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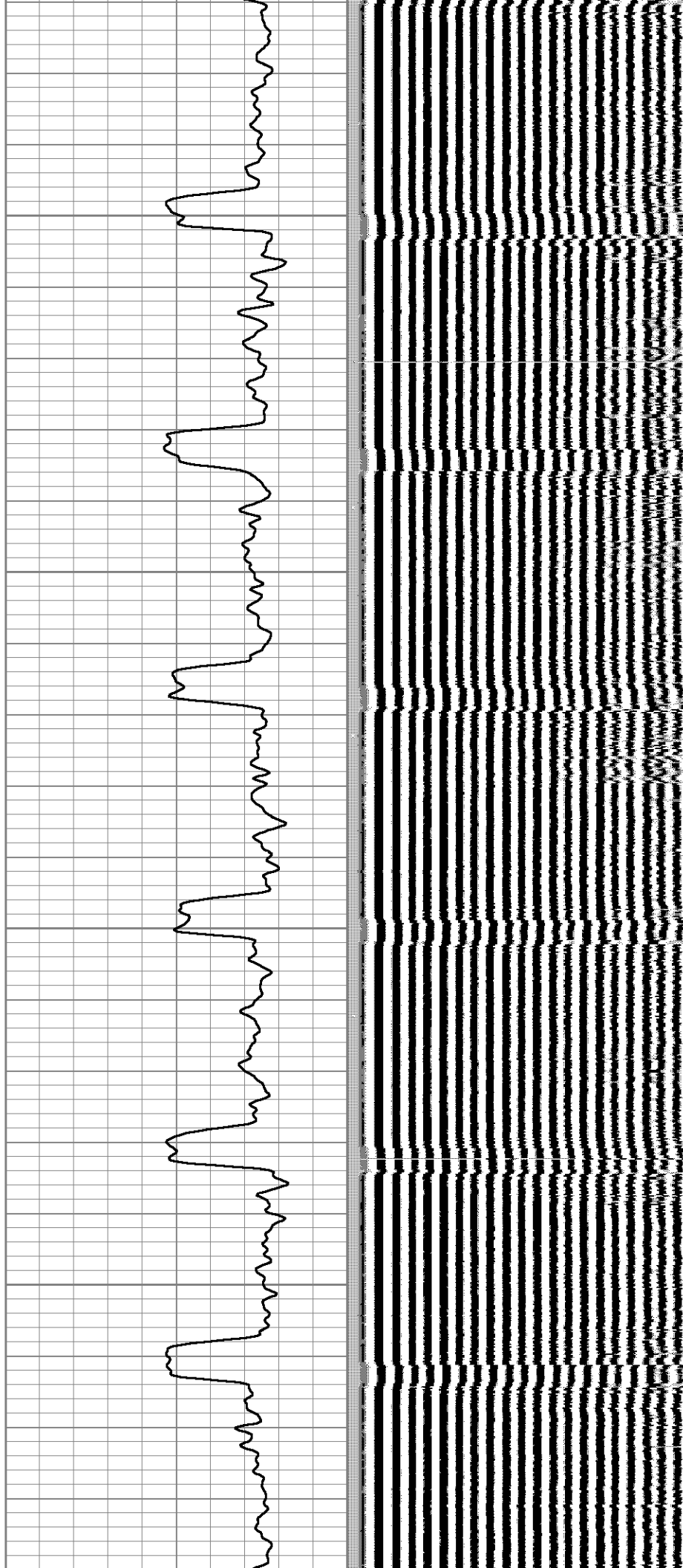


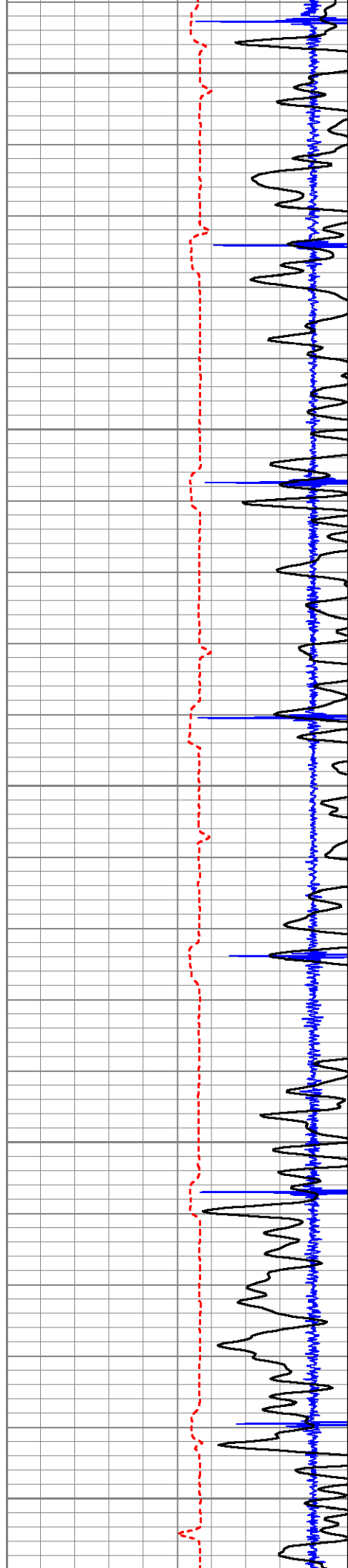
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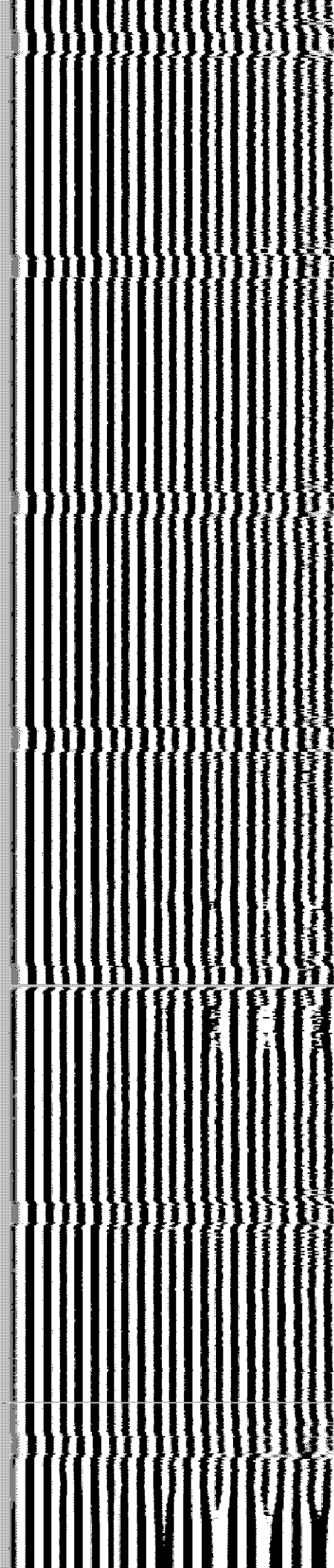
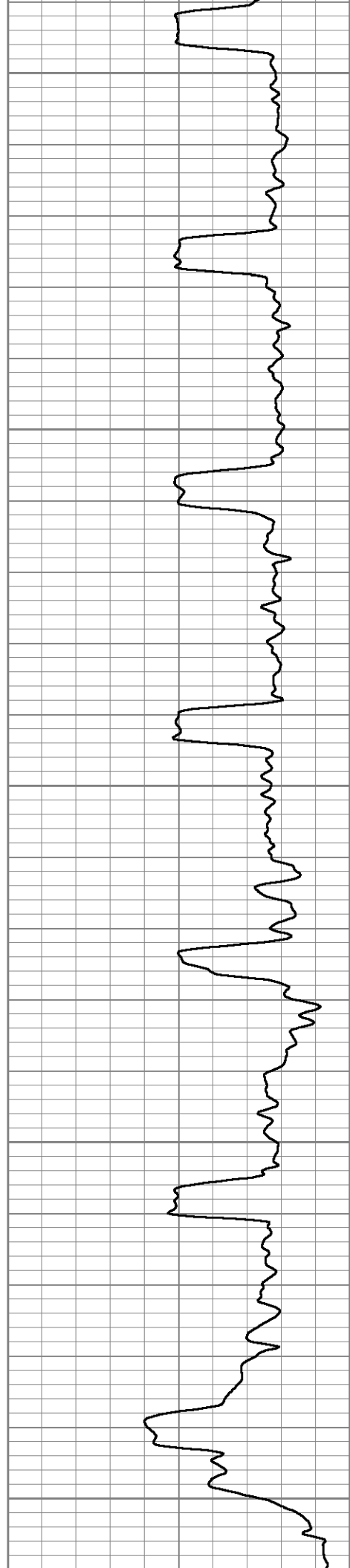
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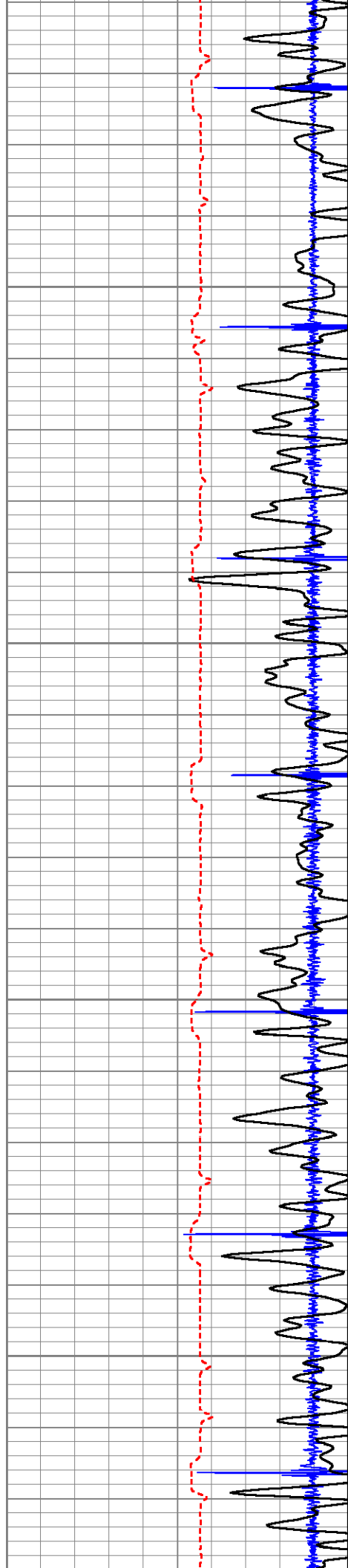
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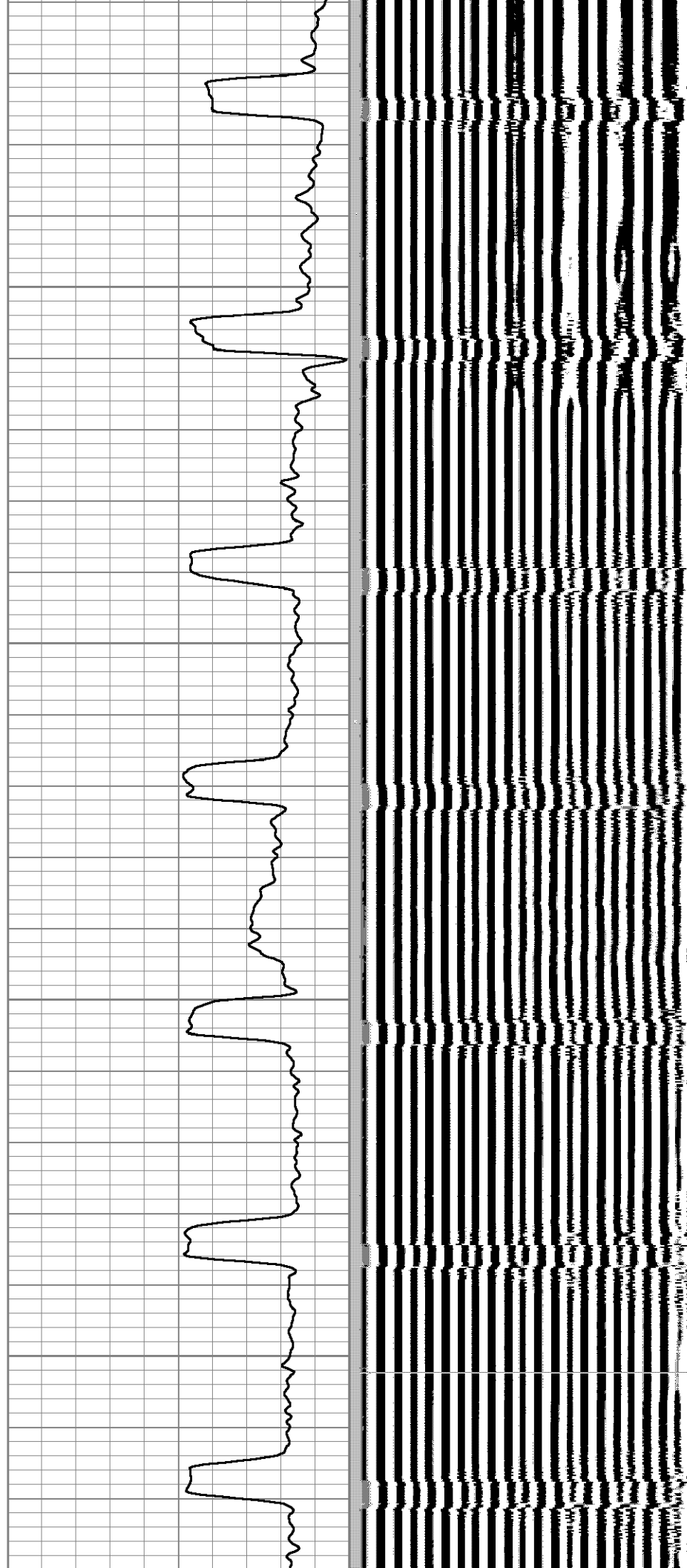


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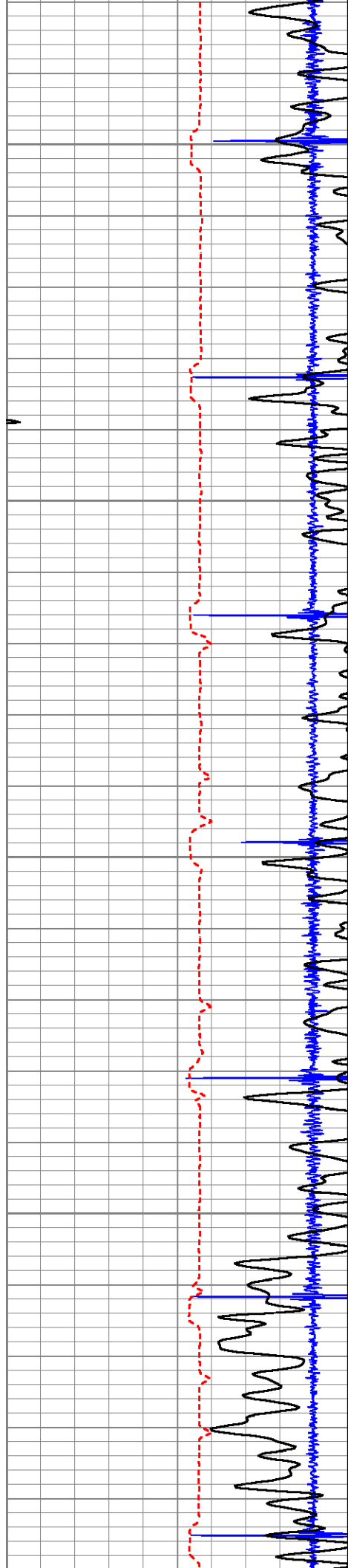
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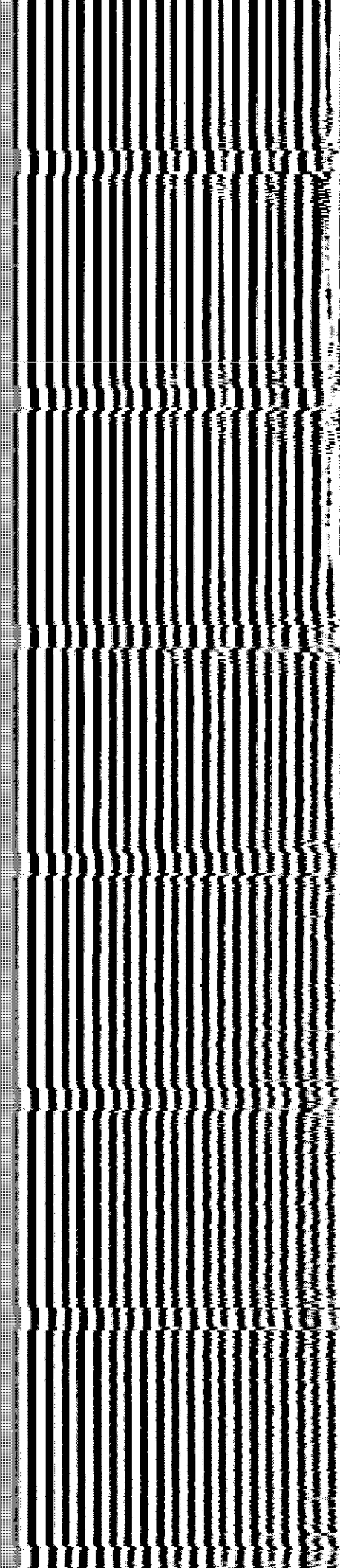
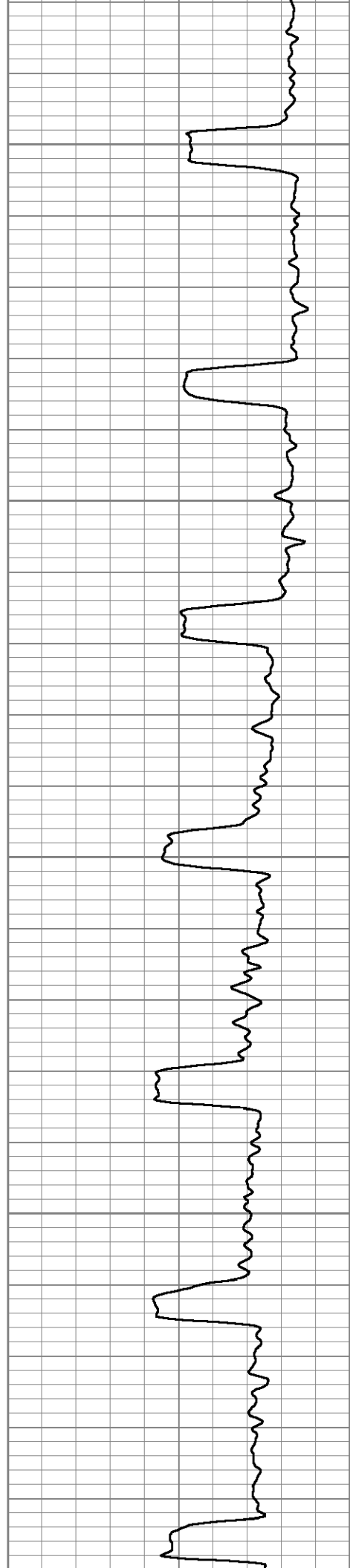
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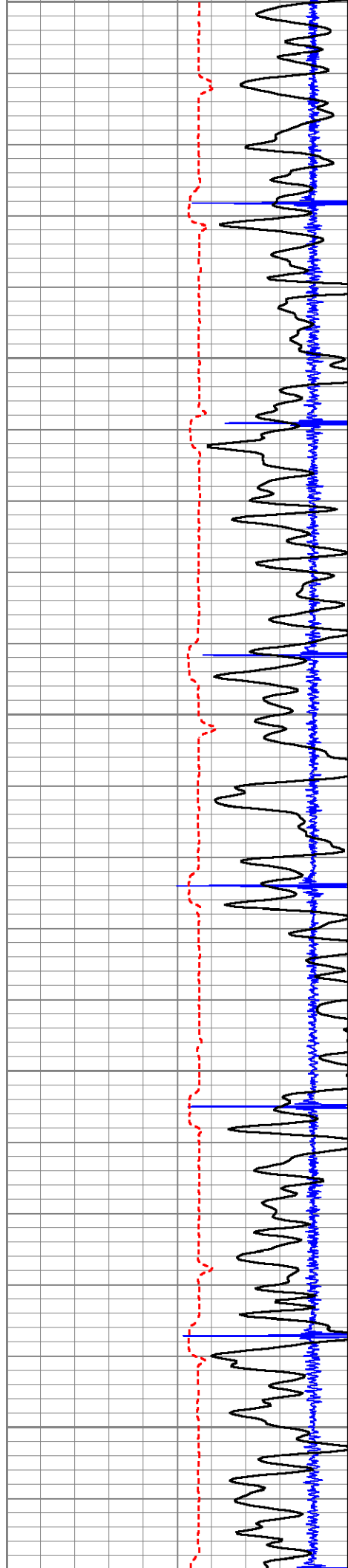
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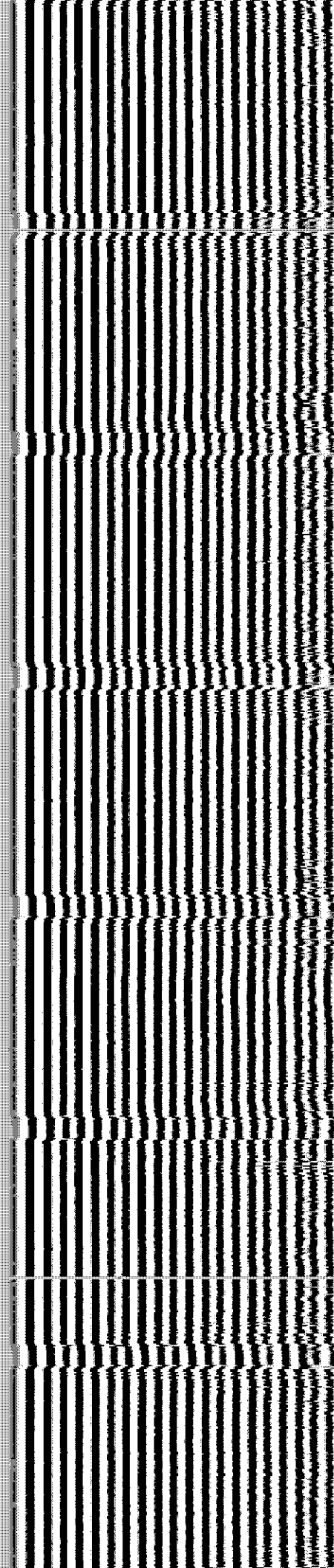
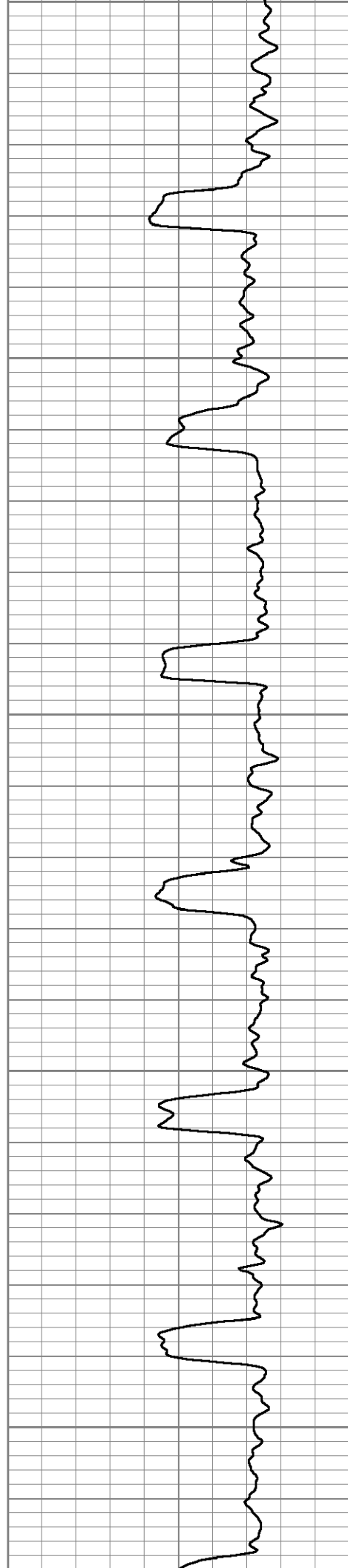
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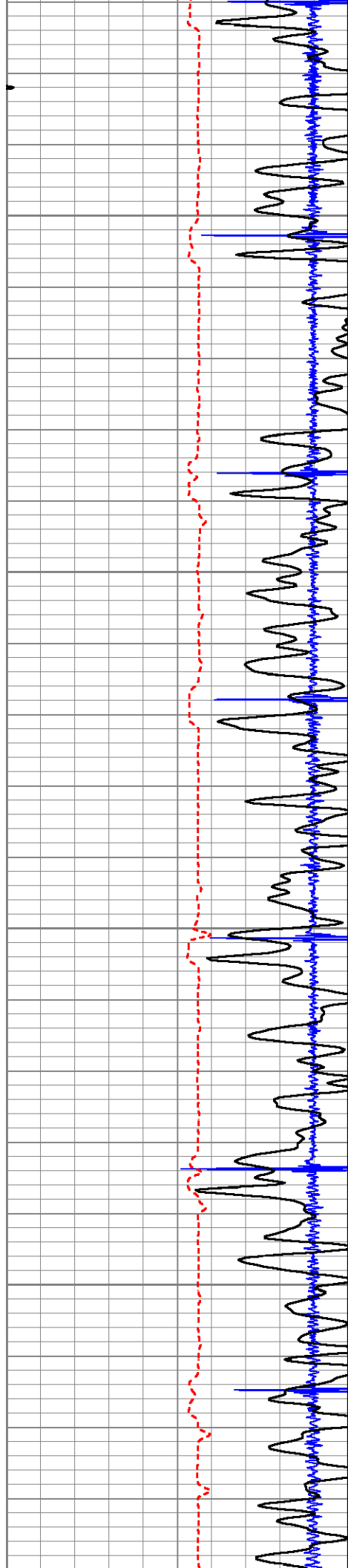
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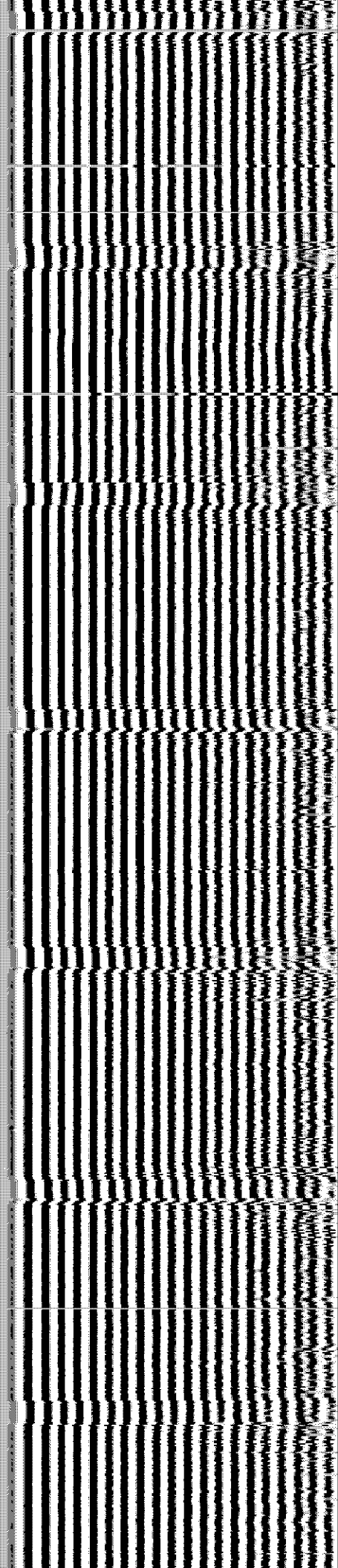
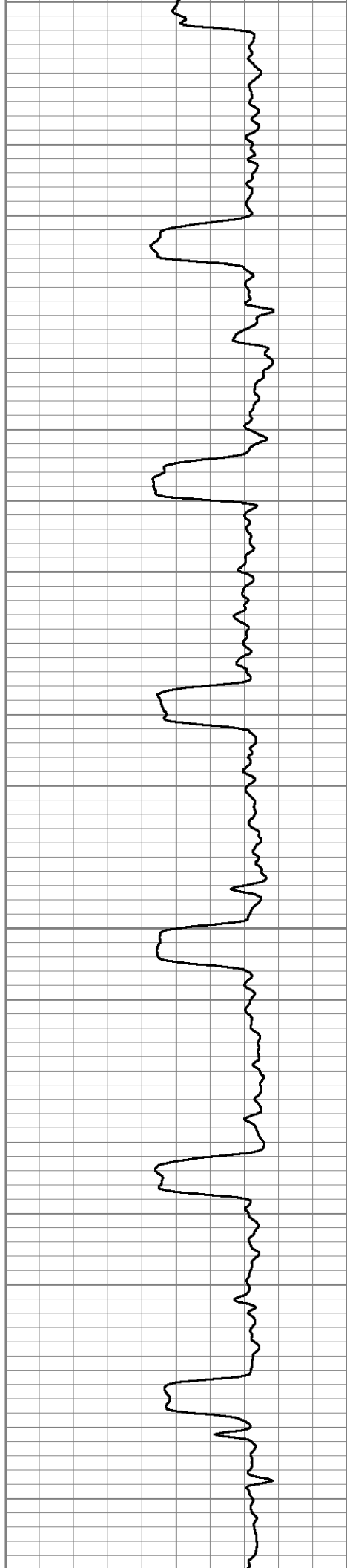


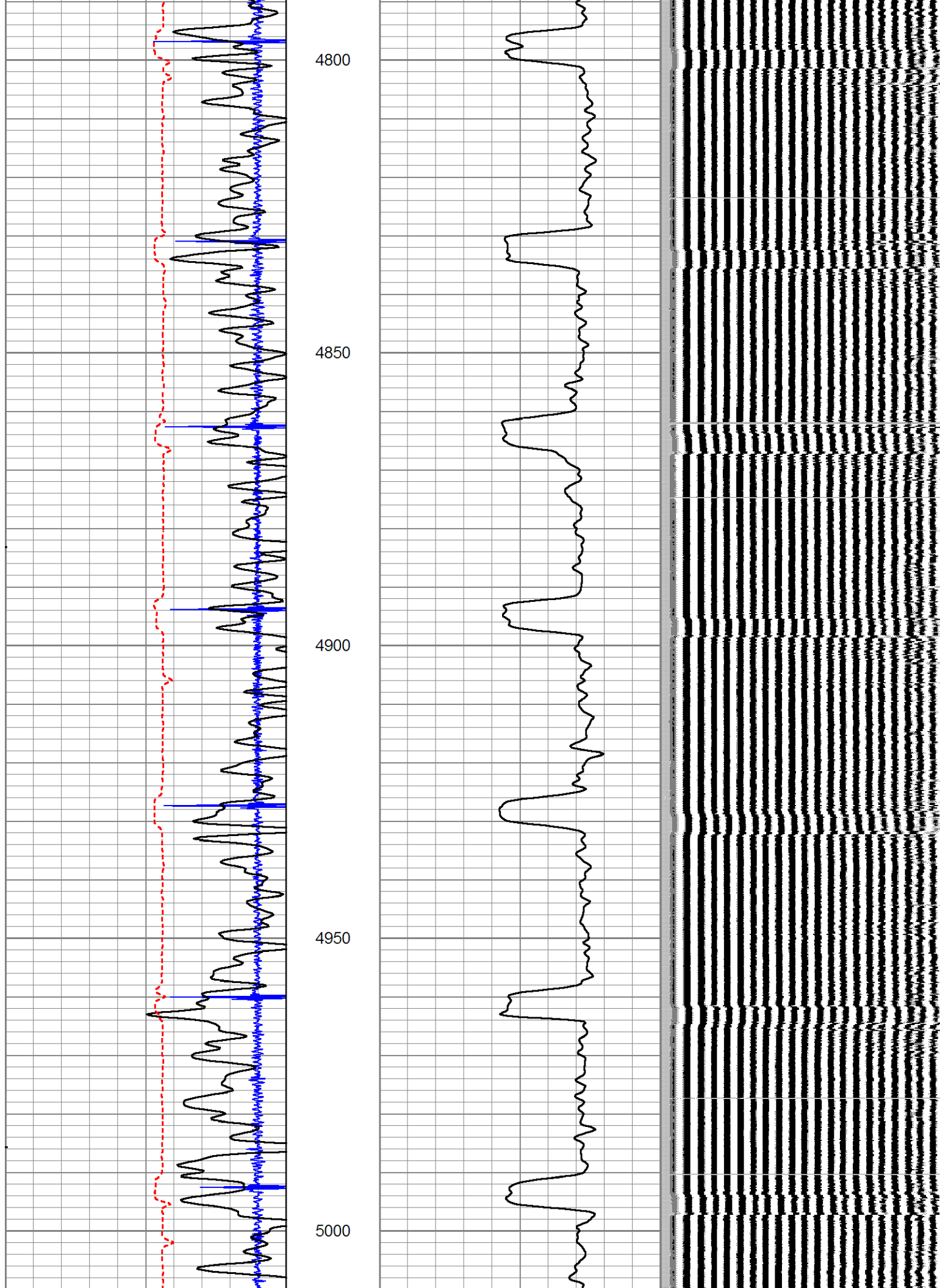
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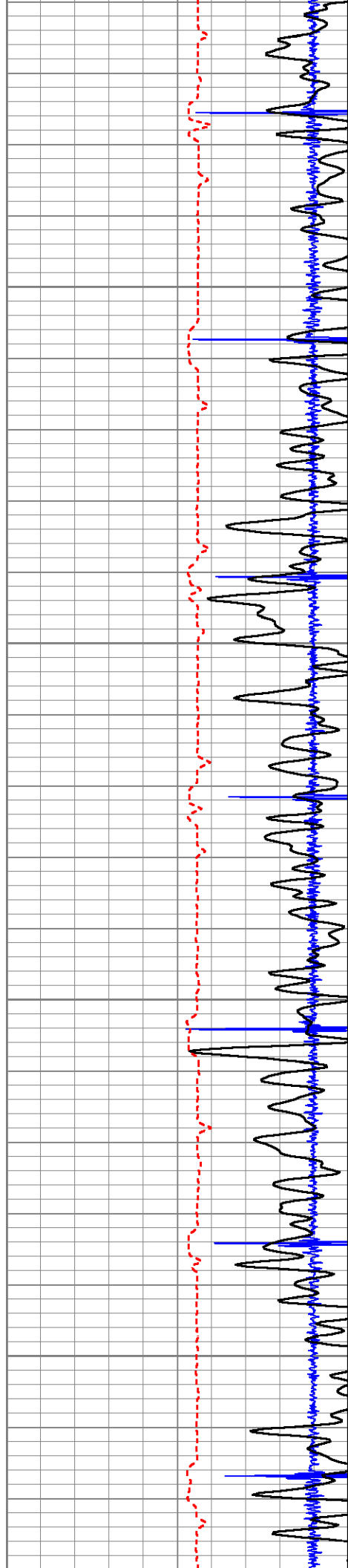
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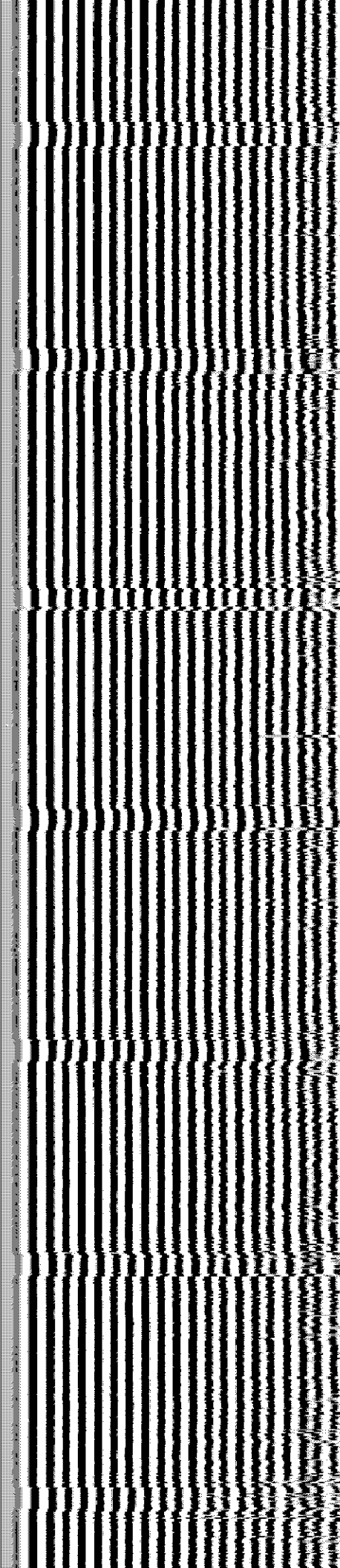
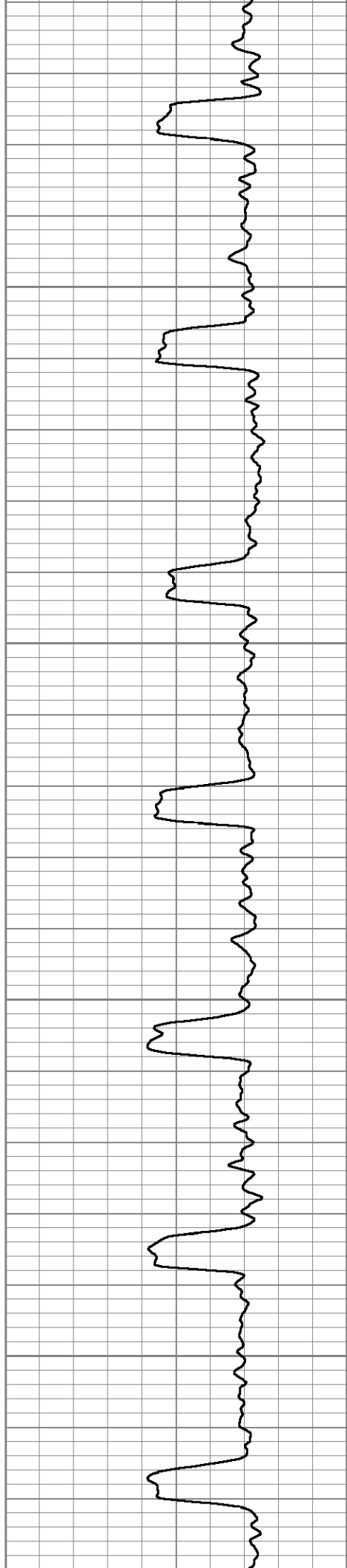


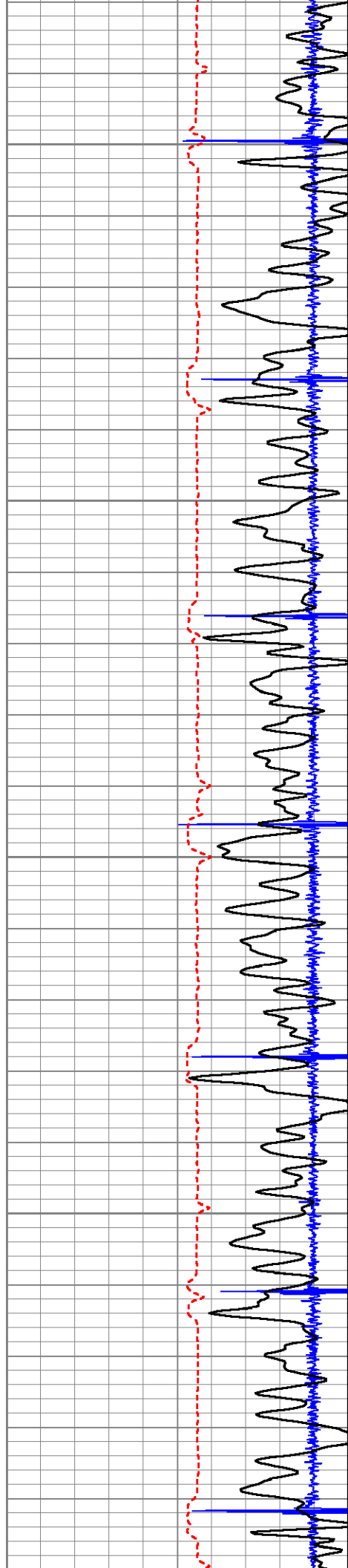
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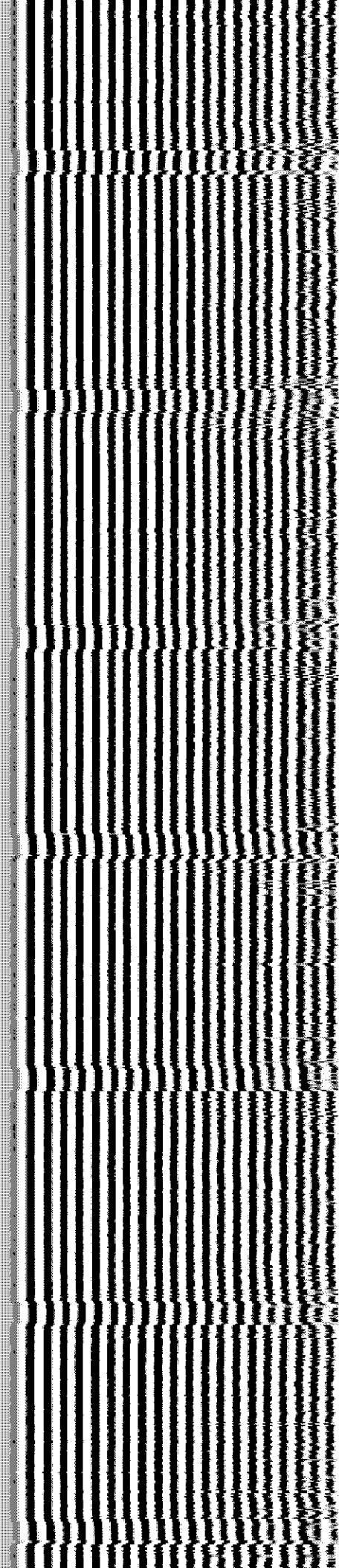
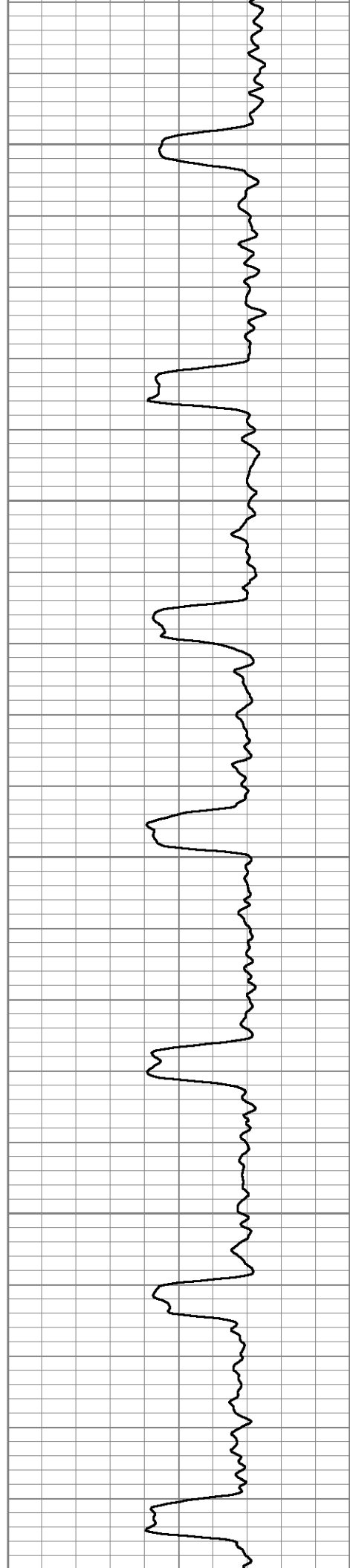
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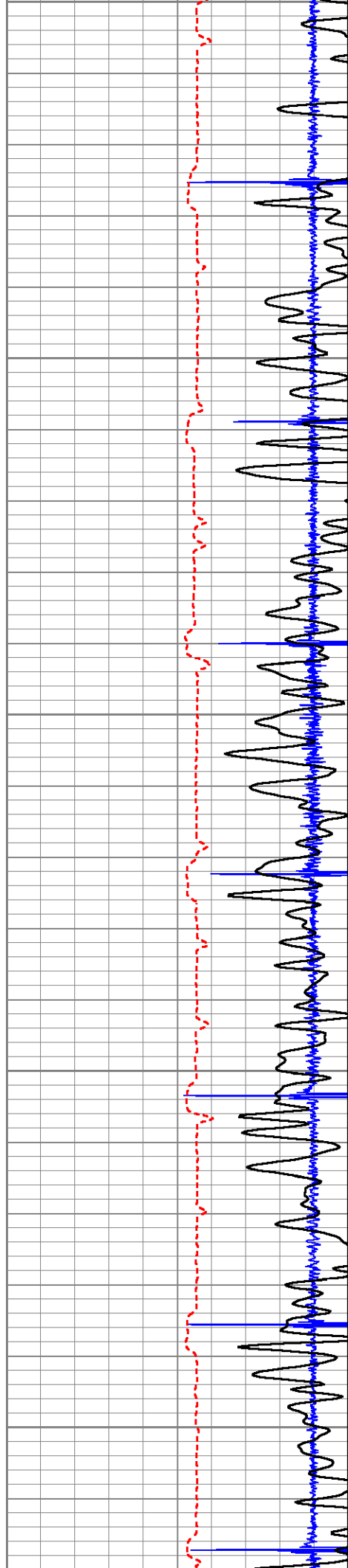
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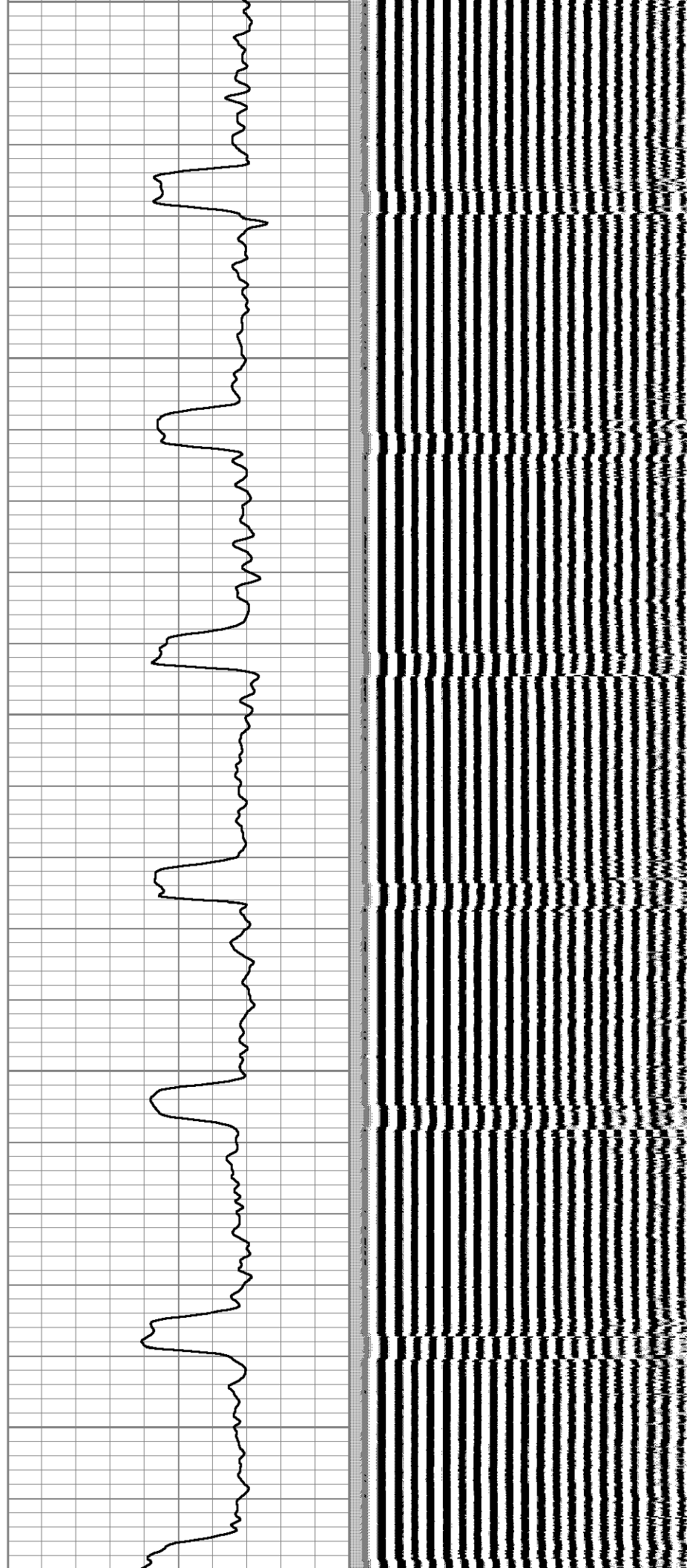
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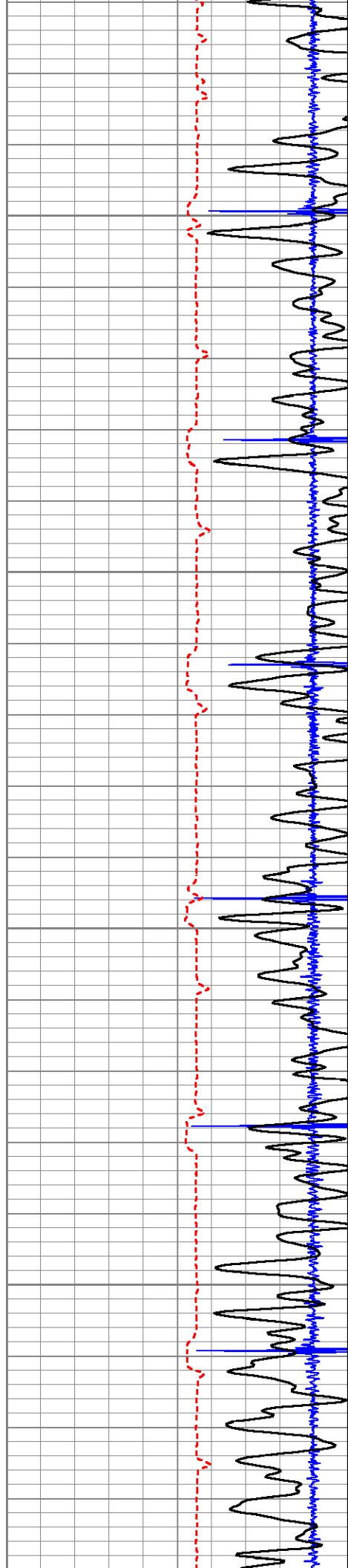
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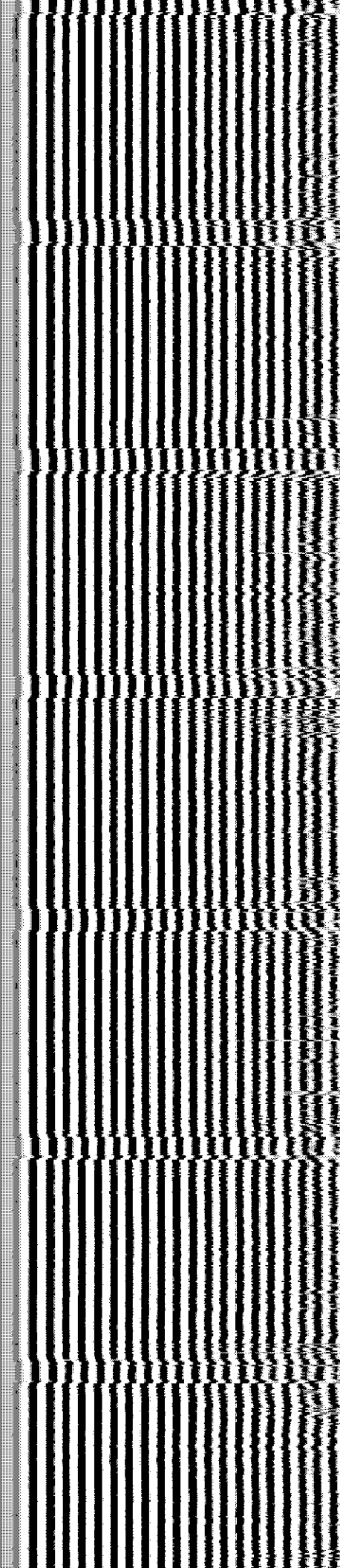
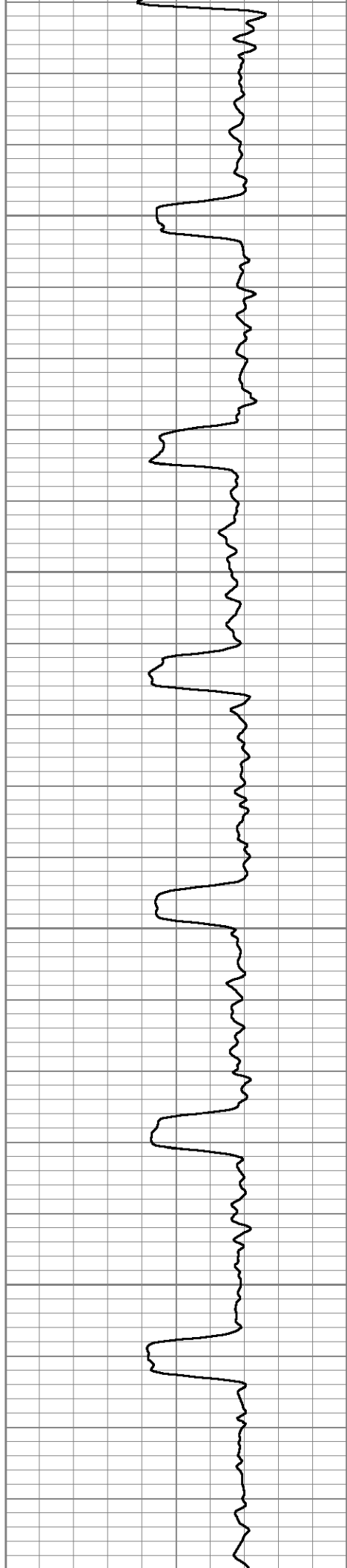


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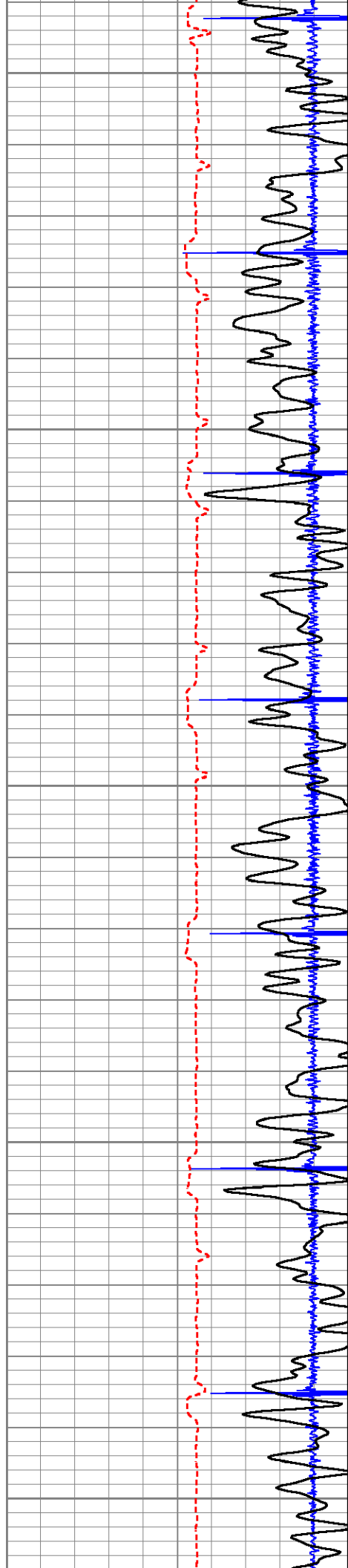
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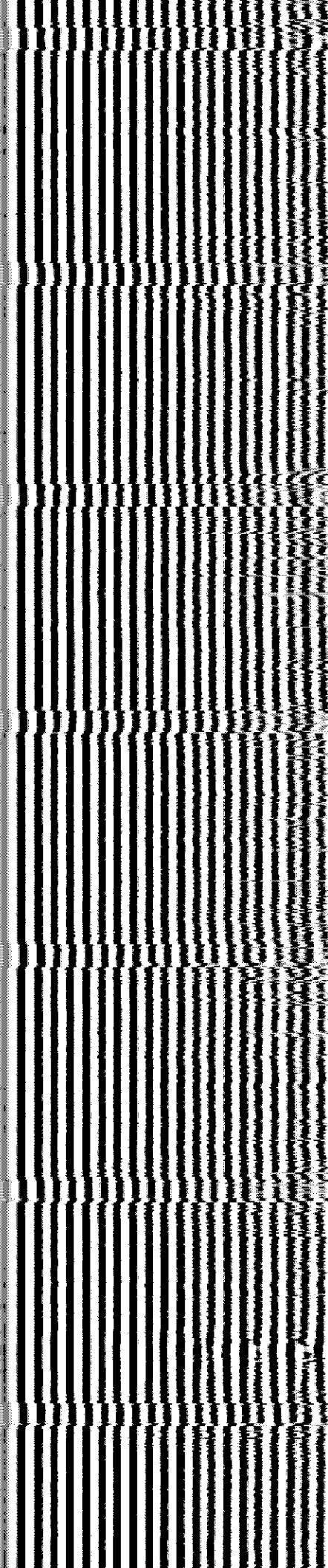
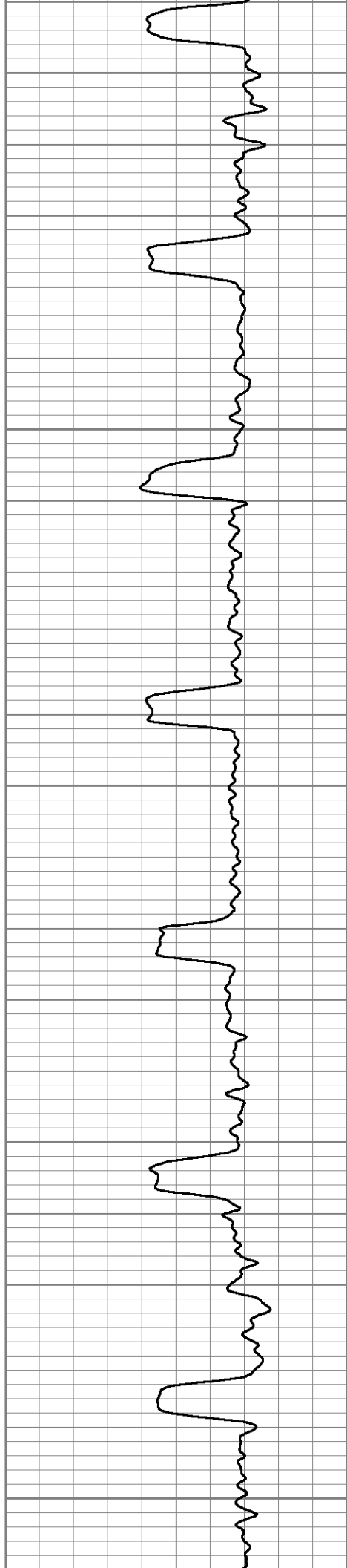
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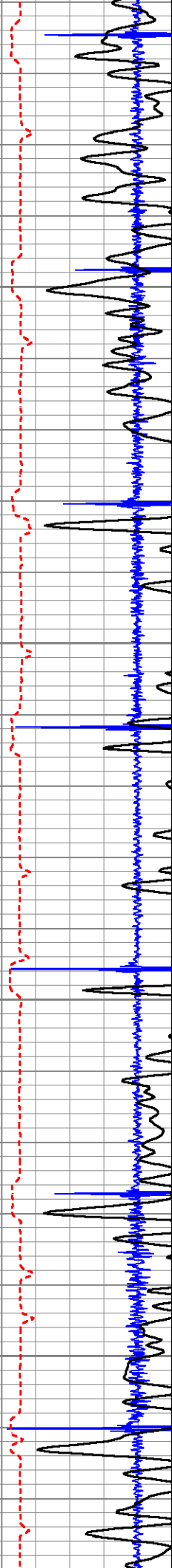
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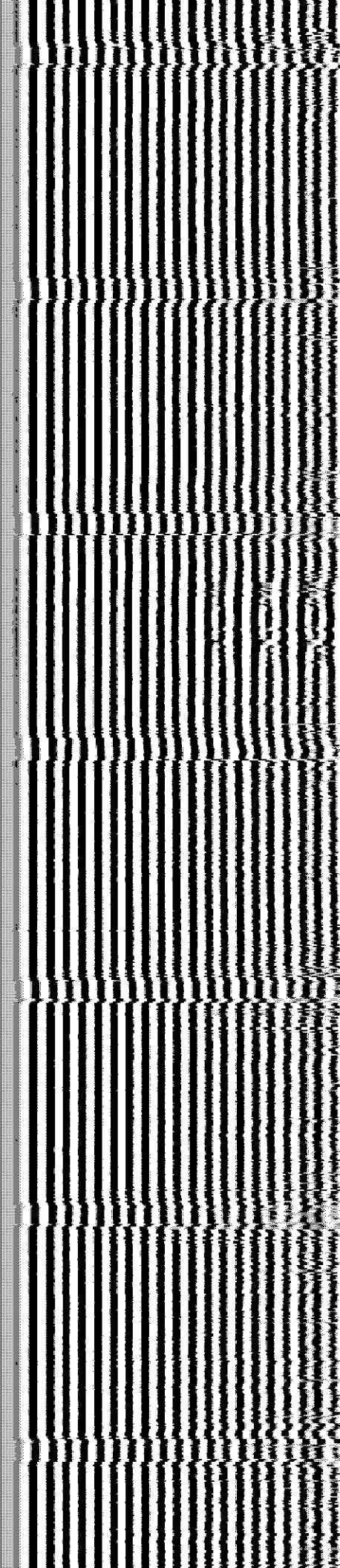
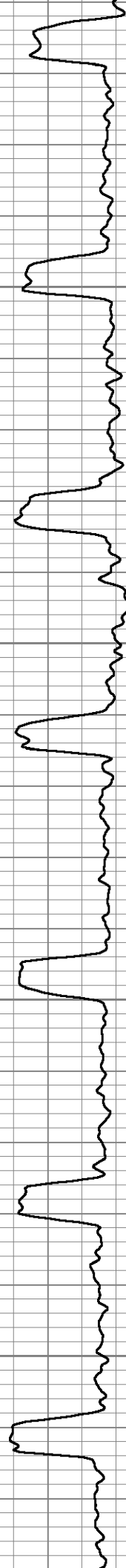


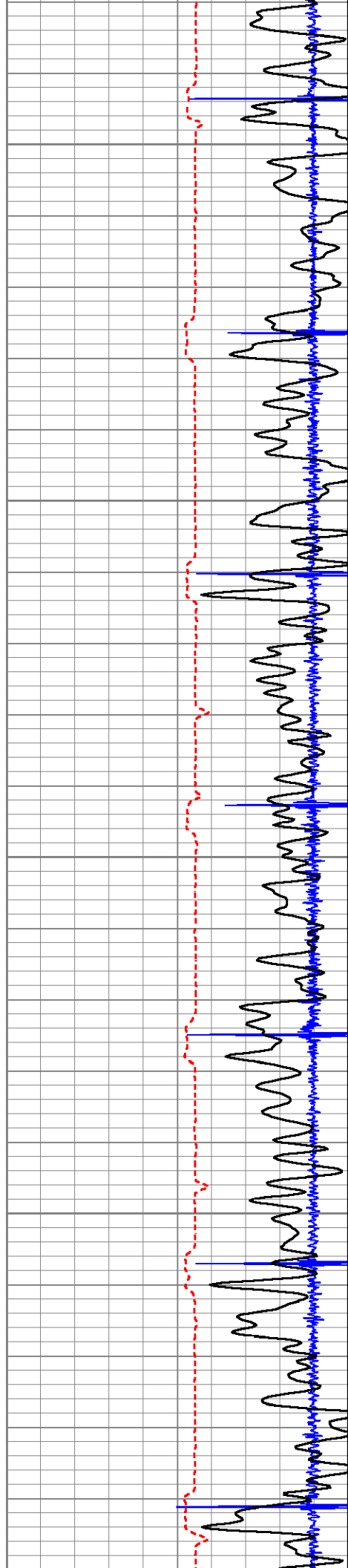
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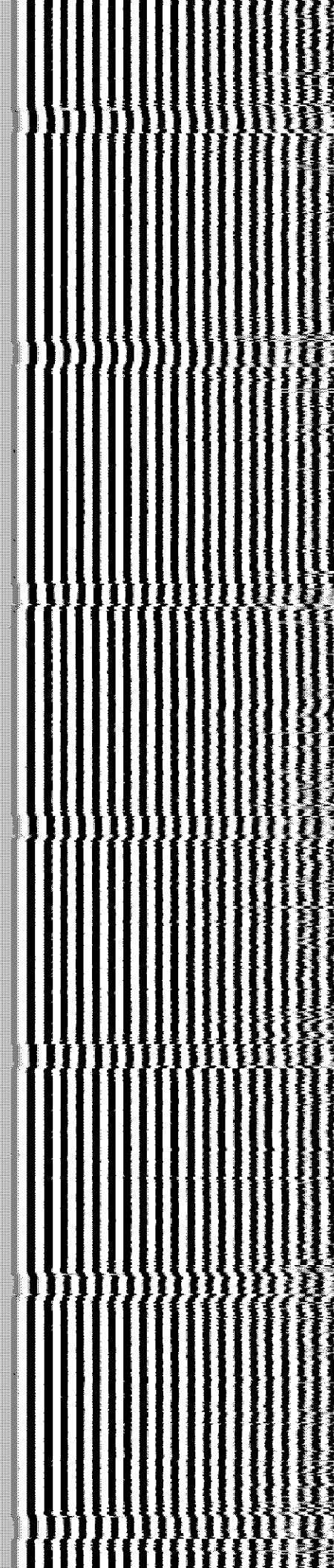
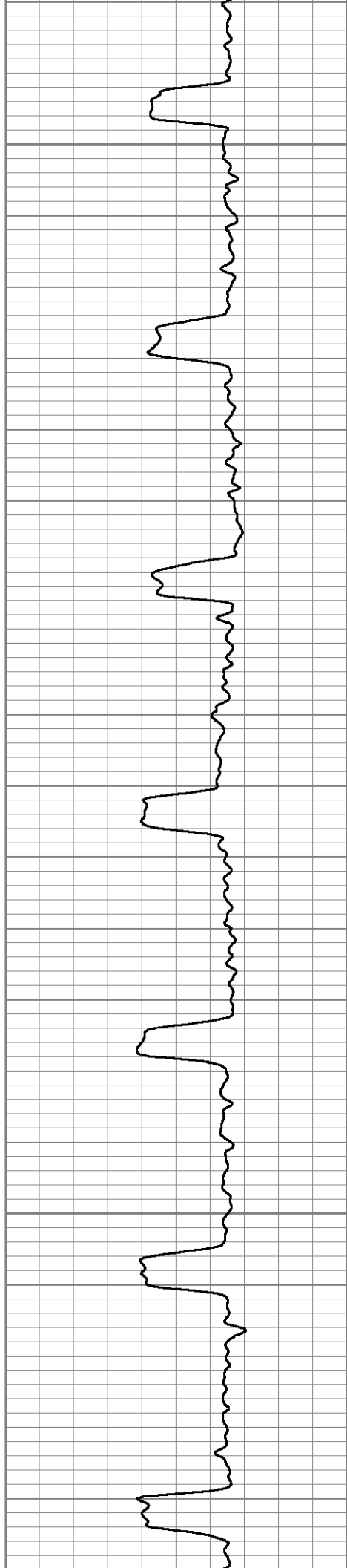
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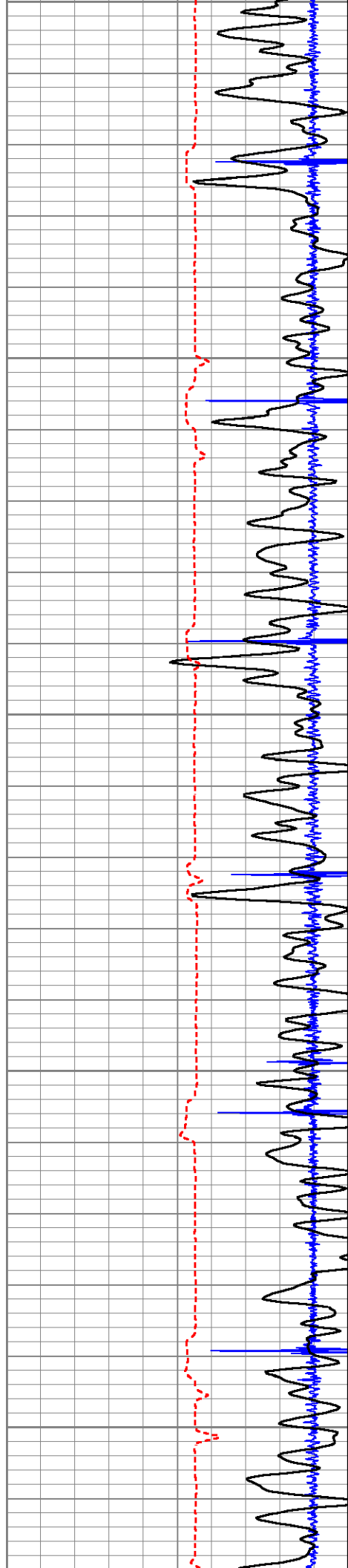
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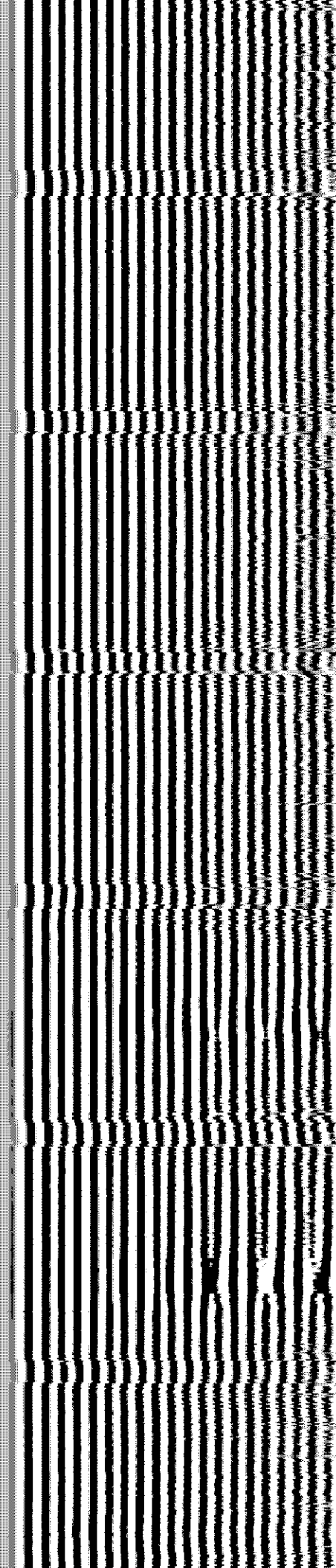
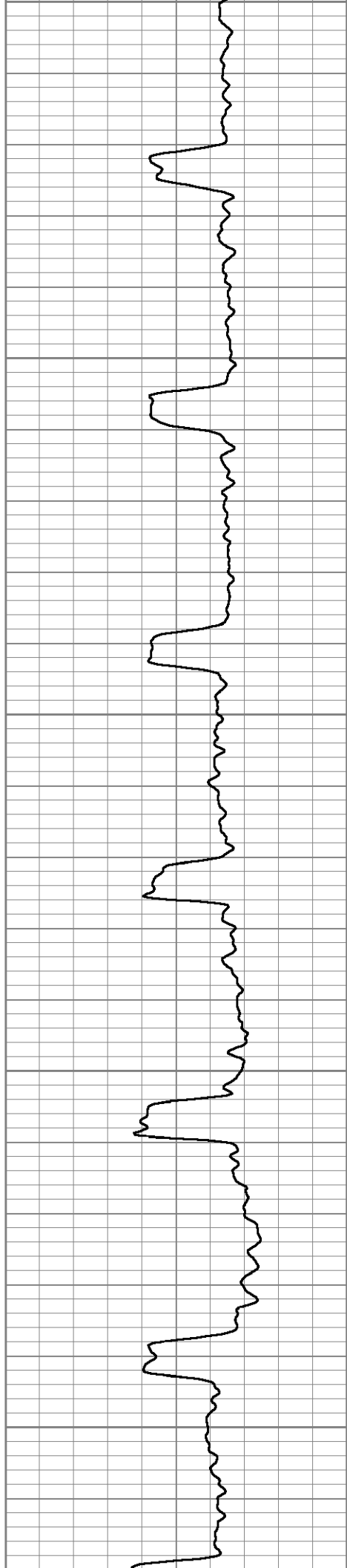
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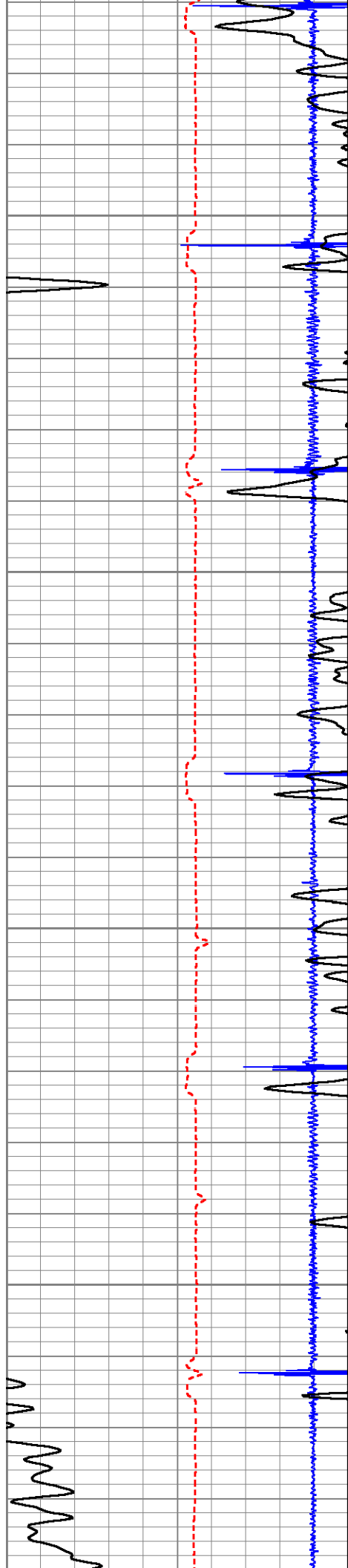
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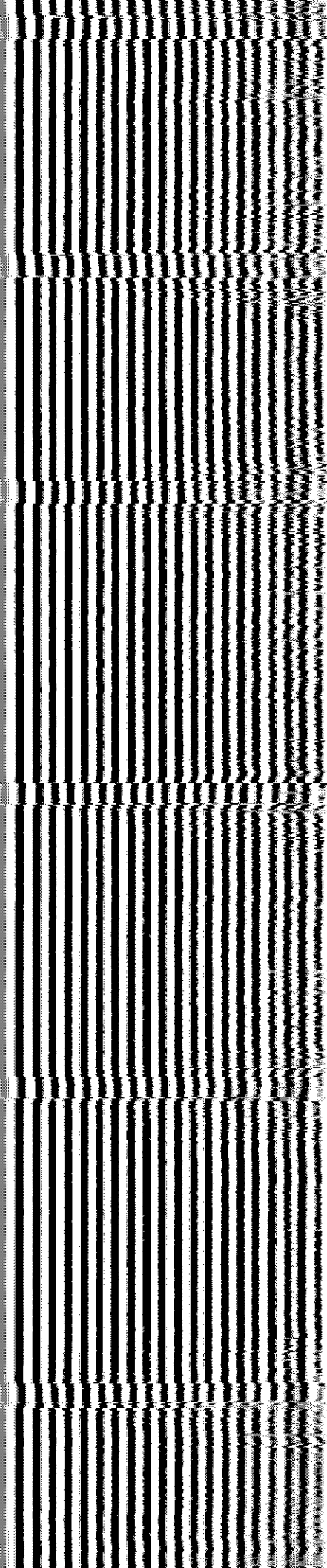
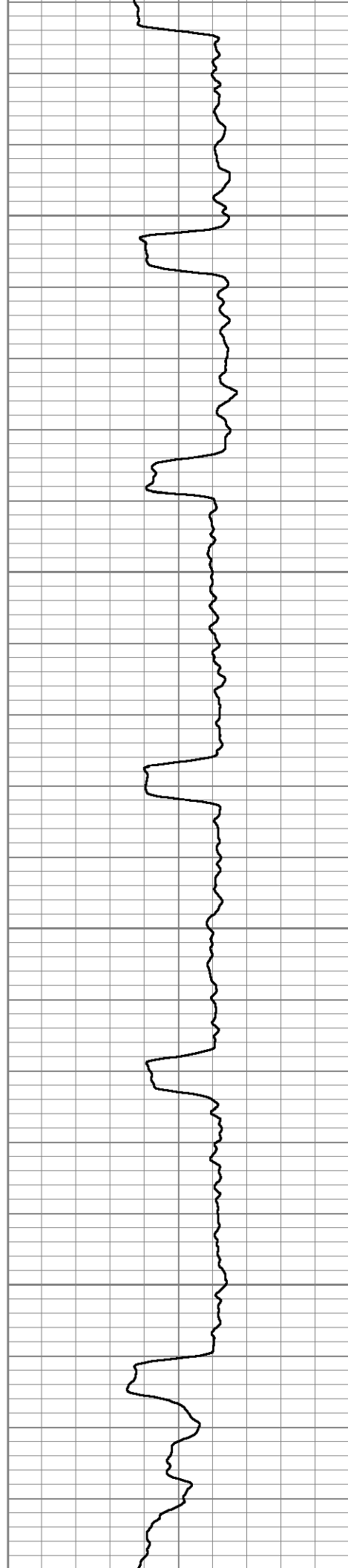


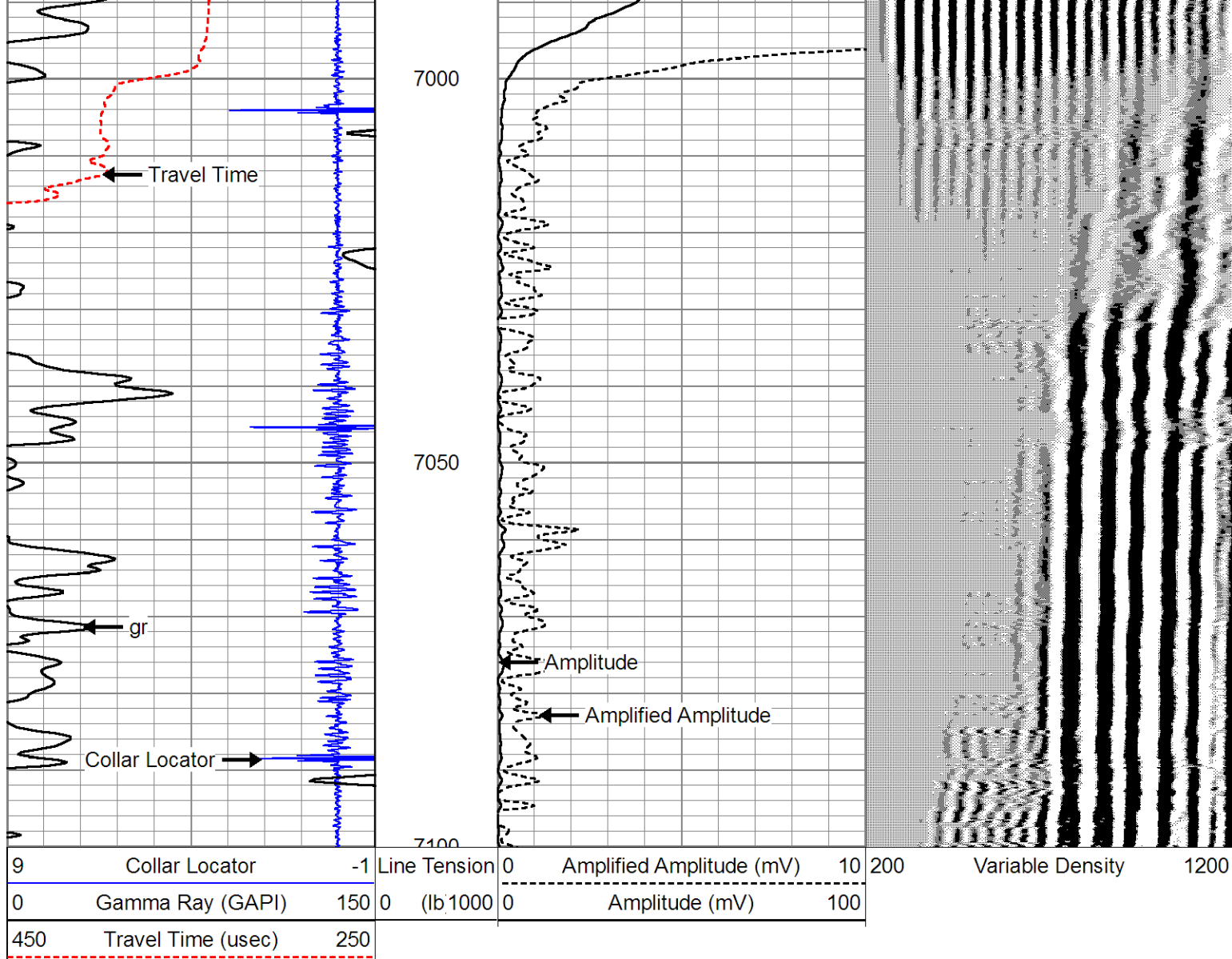
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**PIONEER**  
Pioneer Energy Services

# MAIN PASS

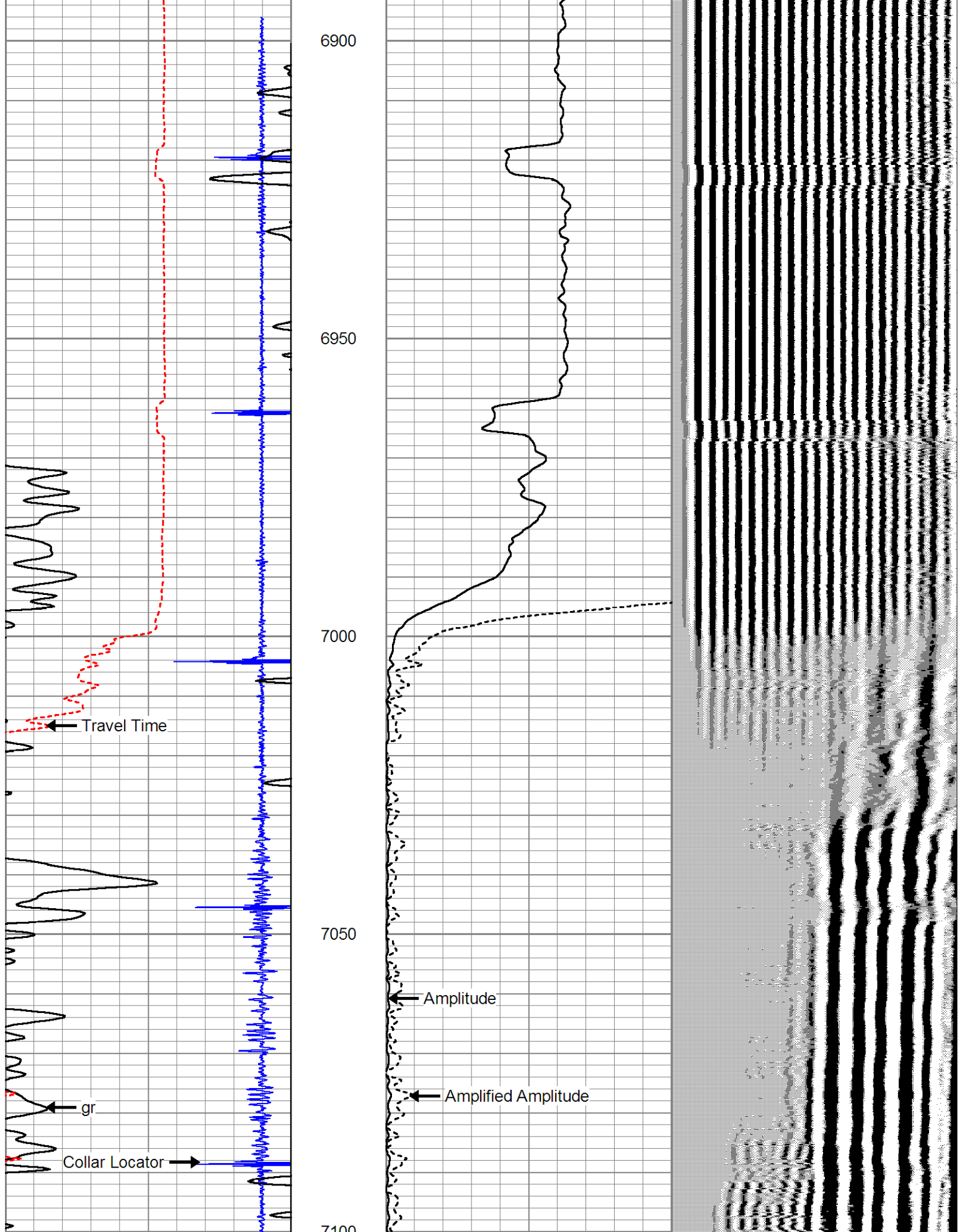


**PIONEER**  
Pioneer Energy Services

# REPEAT PASS

Database File: webber elmer a #1.db  
Dataset Pathname: pass3  
Presentation Format: cbl\_dr  
Dataset Creation: Wed Apr 09 15:02:43 2014 by Log 7.0 B1  
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	Line Tension	0	Amplified Amplitude (mV)	20	200	Variable Density	1200
0	Gamma Ray (GAPI)	150	0 (lb 1000)	0	Amplitude (mV)	100			
450	Travel Time (usec)	250							



9	Collar Locator	-1	Line Tension	0	Amplified Amplitude (mV)	20	200	Variable Density	1200
0	Gamma Ray (GAPI)	150	0 (lb 1000	0	Amplitude (mV)	100			
450	Travel Time (usec)	250							

# REPEAT PASS

## Calibration Report

Database File: webber elmer a #1.db  
Dataset Pathname: pass4  
Dataset Creation: Wed Apr 09 15:06:39 2014 by Log 7.0 B1

## Gamma Ray Calibration Report

Serial Number: 51013  
Tool Model: probe 2.75  
Performed: Thu Feb 23 11:03:07 2012

Calibrator Value: 1400.0 GAPI

Background Reading: 26.8 cps  
Calibrator Reading: 1120.0 cps

Sensitivity: 0.9000 GAPI/cps

## Temperature Calibration Report

Serial Number: 51013  
Tool Model: probe 2.75  
Performed: Sun Jun 13 13:33:21 1993

	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	1.00 degF	1.00 cps
Gain:	1.00	
Offset:	0.00	
Delta Spacing	1	

## Cement Bond Log Calibration Report

Serial Number: 050215  
Tool Model: Probe  
Performed: Wed Apr 09 14:44:36 2014

Depth: 54.4222 ft  
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing
Signal Zero:	0	0 mV
Calibrated Amplitude:	81.1961	81.1961 mV
Reading at Signal Zero:	0.00986328	0.0098877 V
Reading in Free Pipe:	0.47605	0.530664 V
Gain:	174.171	155.914
Offset:	-1.7179	-1.54163

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
		