



VDL CCL GAMMA-RAY
CEMENT BOND LOG

Pioneer Energy Services

Company GREAT WESTERN OIL & GAS LLC
Well 17-32-12
Field BRACEWELL
County WELD State COLORADO

Company GREAT WESTERN OIL & GAS LLC
Well 17-32-12
Field BRACEWELL
County WELD
State COLORADO

Location: SHL 718' FSL & 642' FEL SESE
BHL 2640' FSL & 1320' FEL CE 1/2
SEC 17 TWP 6N RGE 66W
Permanent Datum GL Elevation 4771'
Log Measured From KB
Drilling Measured From KB
Other Services

Date 9/29/12

Run Number ONE
Depth Driller NA
Depth Logger 7722'
Bottom Logged Interval 7704'
Top Log Interval 32'
Open Hole Size 7 7/8:
Type Fluid NA
Density / Viscosity NA
Max. Recorded Temp. NA
Estimated Cement Top NA
Time Well Ready NA
Time Logger on Bottom NA
Equipment Number 9605
Location FT MORGAN
Recorded By TODD YOUNG
Witnessed By SHAWN ARMSTRONG

Borehole Record
Run Number Bit From To Size Weight From To


Casing Record
Surface String
Prot. String
Production String
Liner
Size Wgt/Ft Top Bottom

<<< 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.

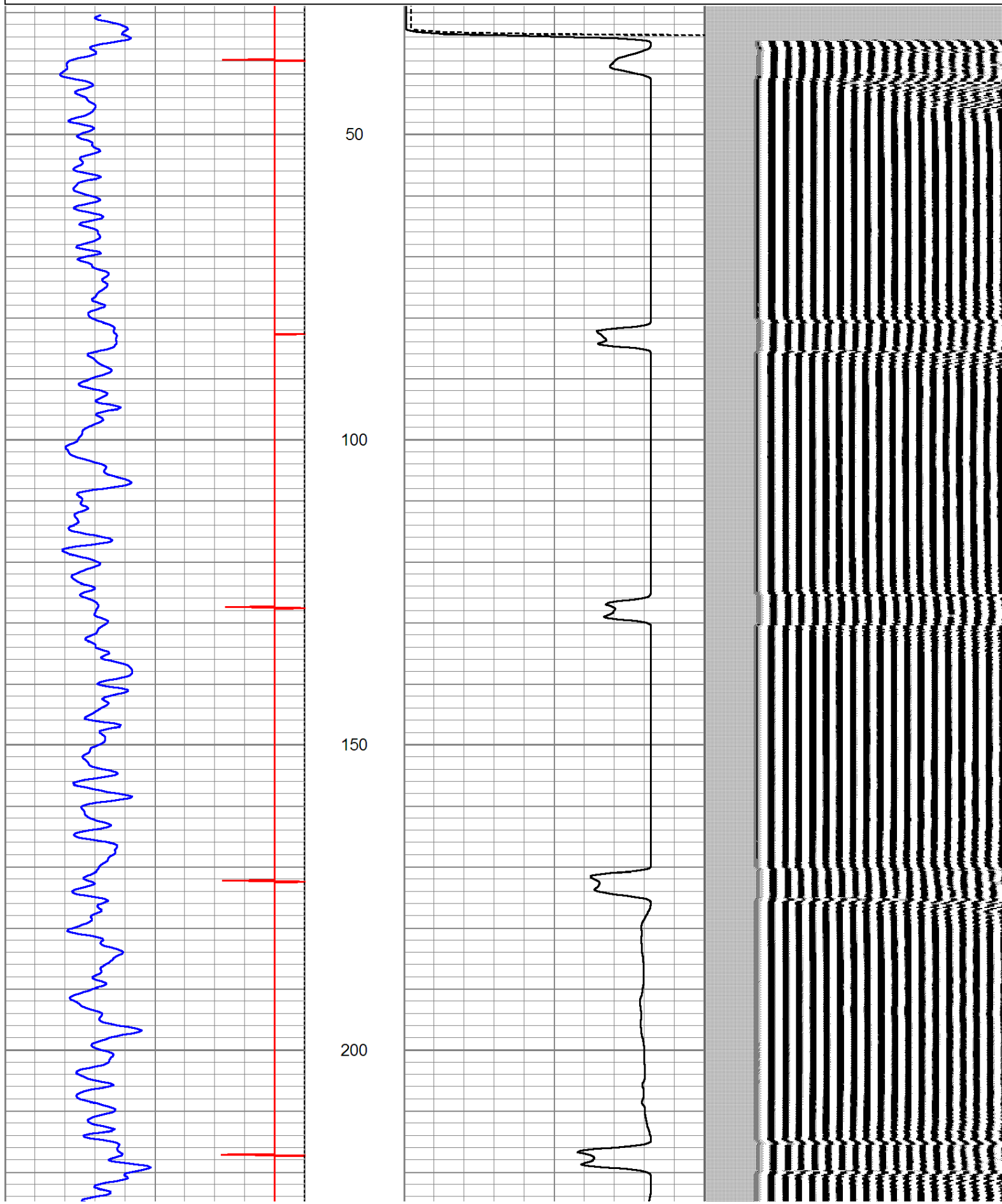
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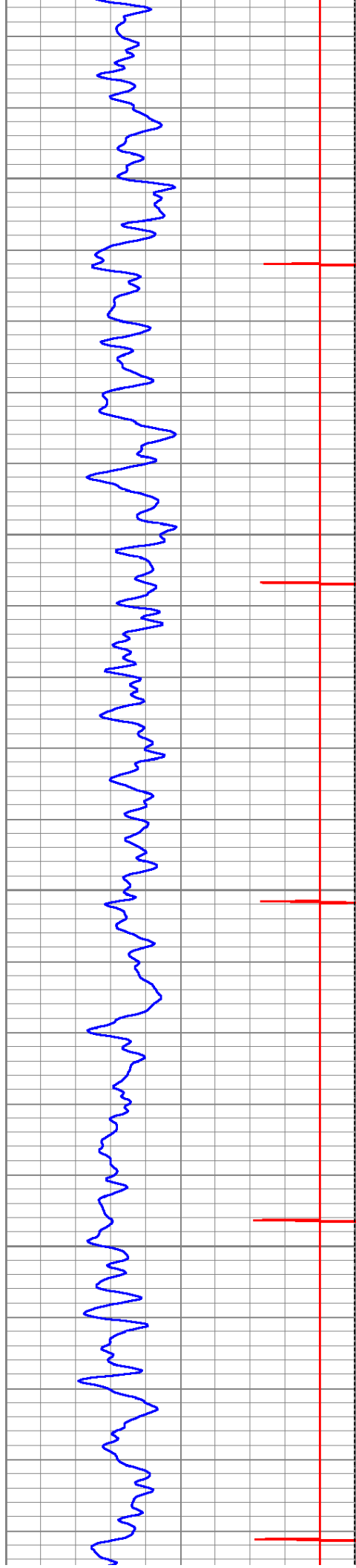
SO# 203115
THANK YOU FOR USING
PIONEER ENERGY SERVICES

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.31		CCL-titan01 (01t)	1.92	2.75	

			SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3	10.92					
WVF5	9.92		CBL-Probe (050215) 2.75 digital probe	8.75	2.75	106.50
			SDSCENT Centralizer for testing	3.00	3.25	20.00
GR	1.13		GR-probe 2.75 (51013)	3.67	2.75	100.00
Dataset: fritzler 17-32-12.db: field/well/run1/pass3 Total Length: 20.33 ft Total Weight: 246.50 lb O.D. 3.25 in						

9	Collar Locator	-1	LTEN	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
0	Gamma Ray (GAPI)	200	0	(lb)2000	0	Amplitude (mV)	100		



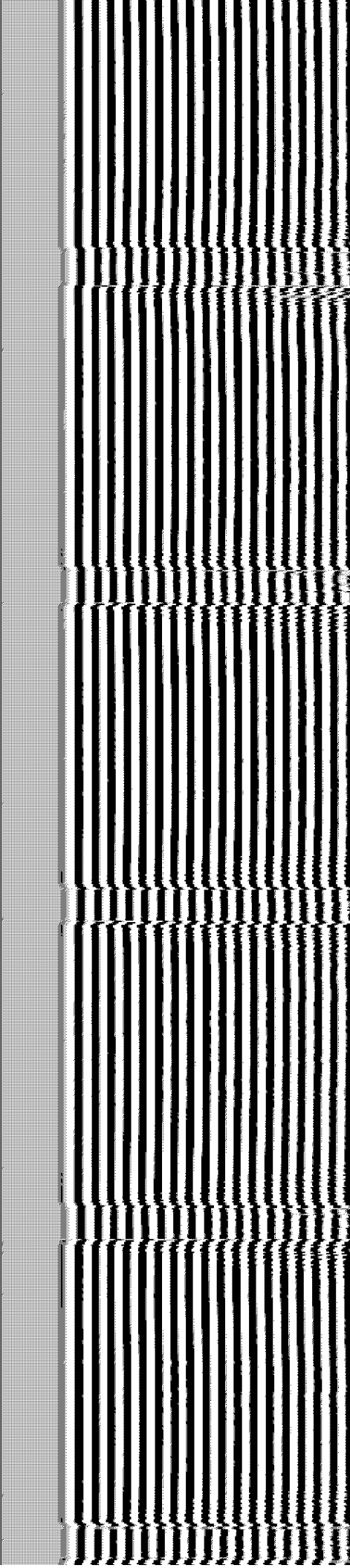
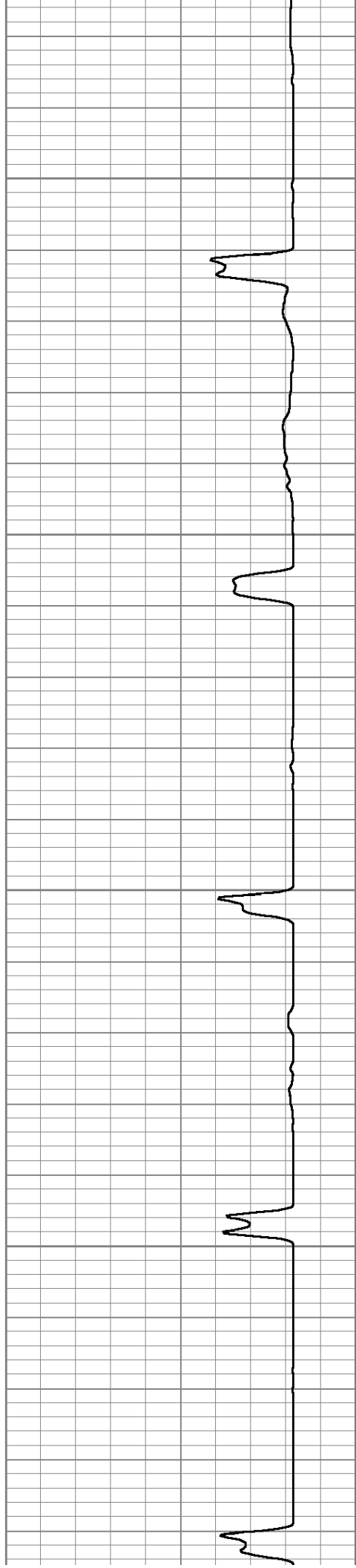


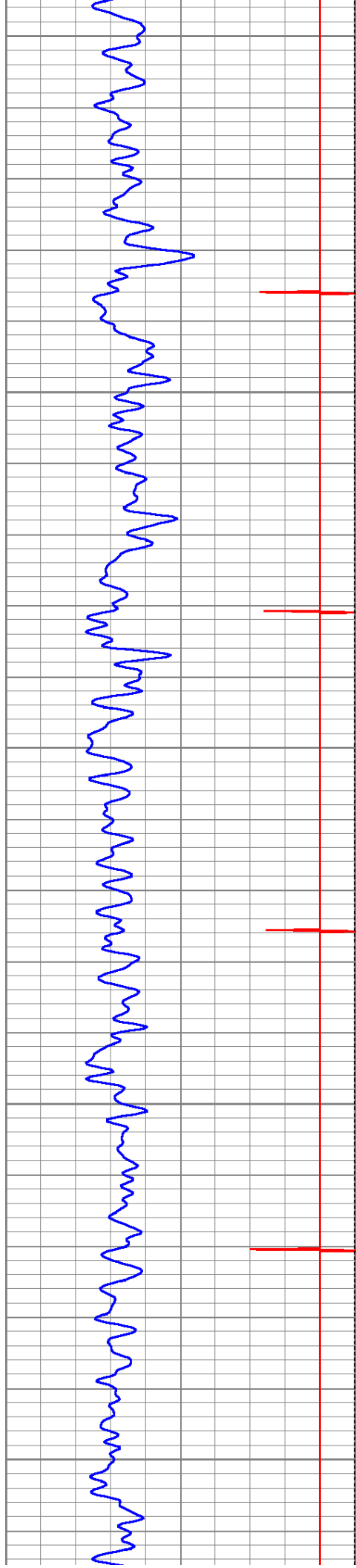
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300

350

400





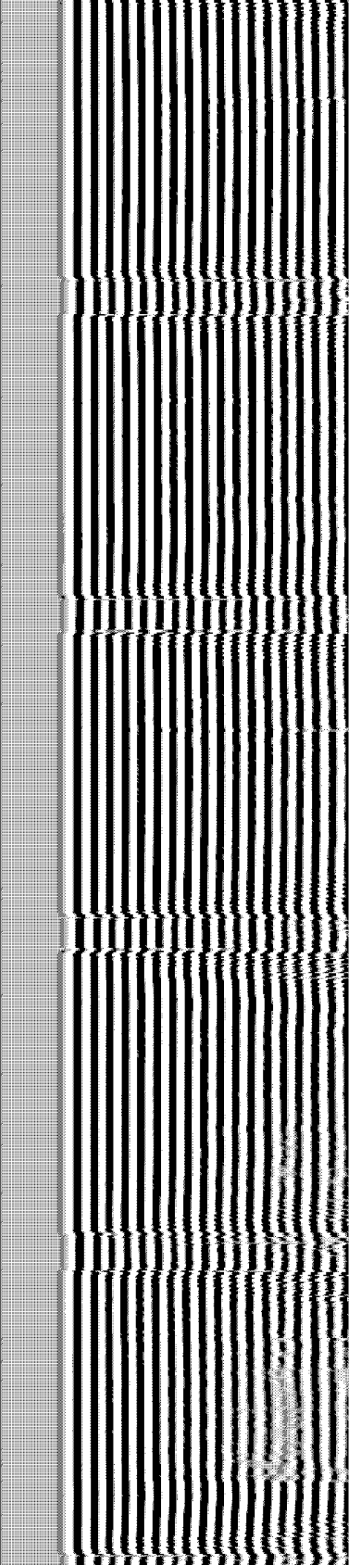
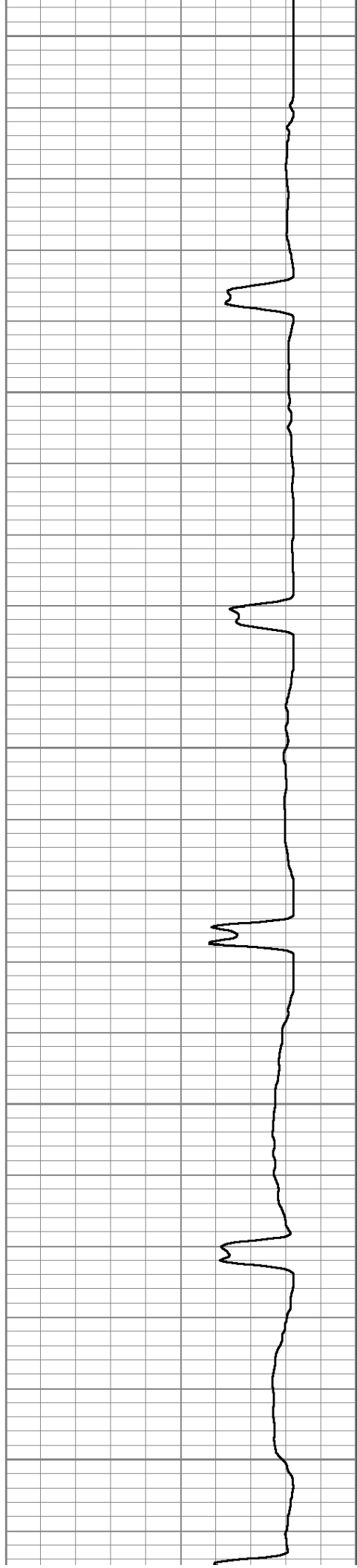
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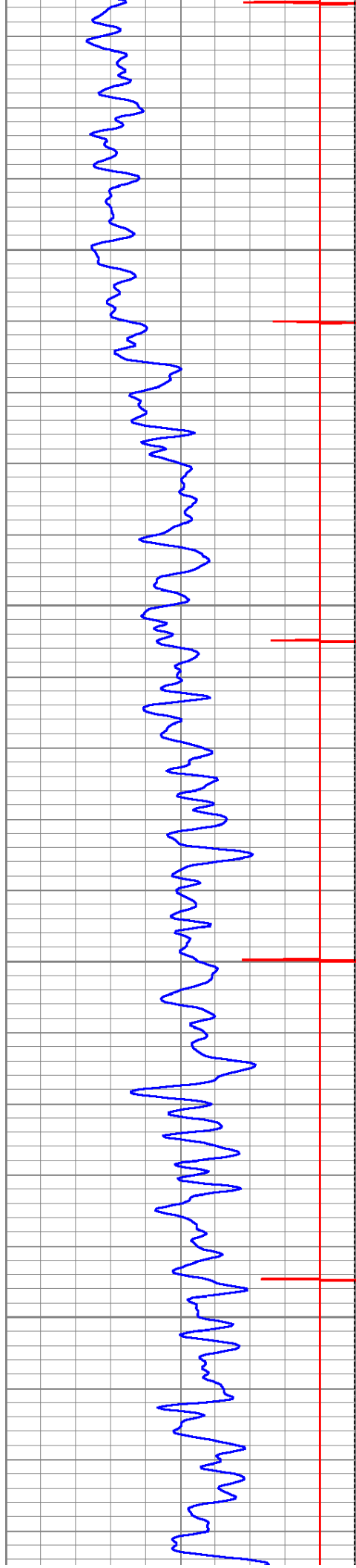
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550

600

650



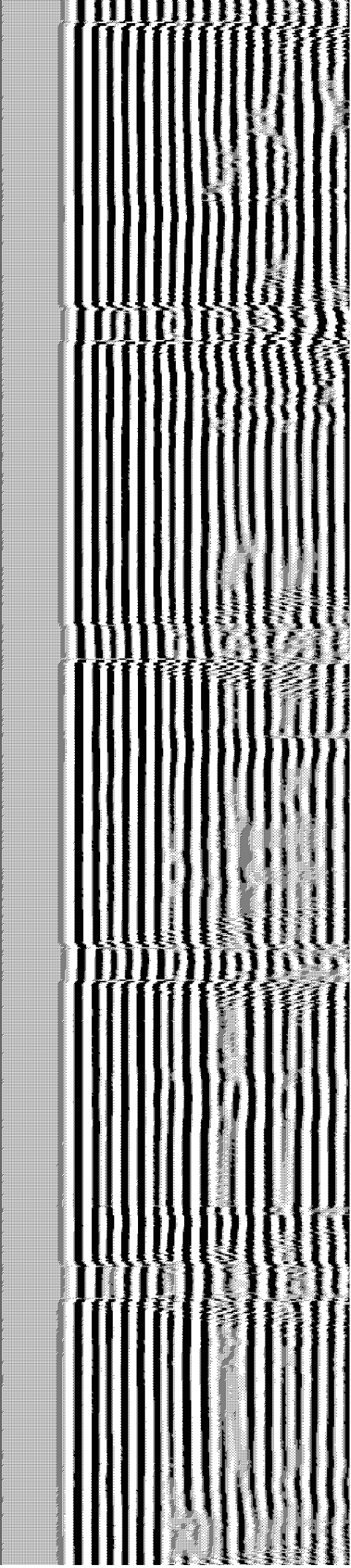
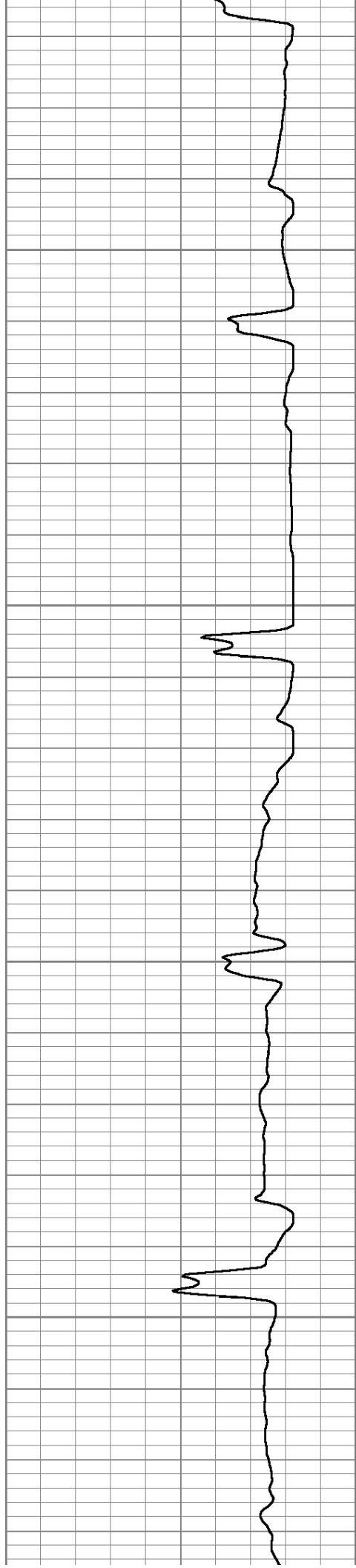


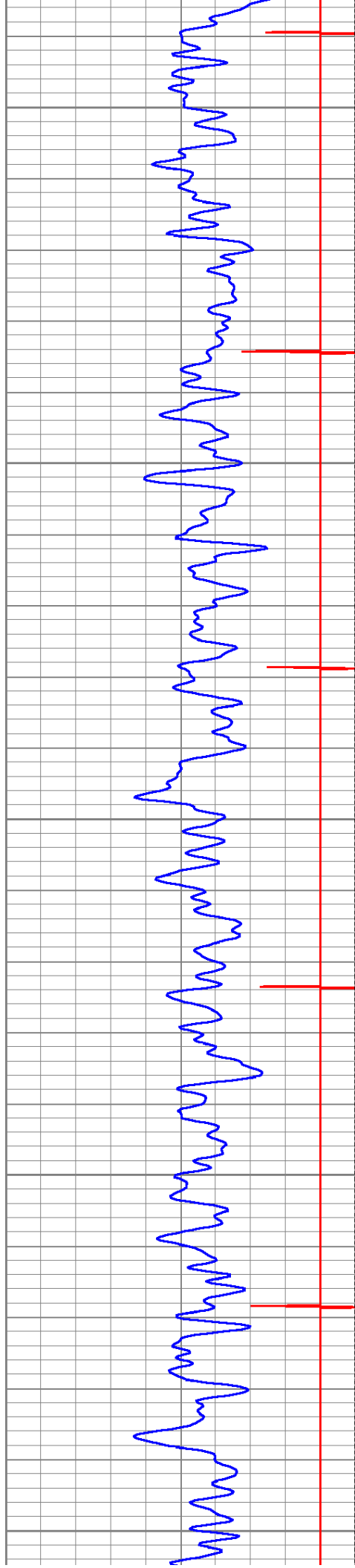
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850





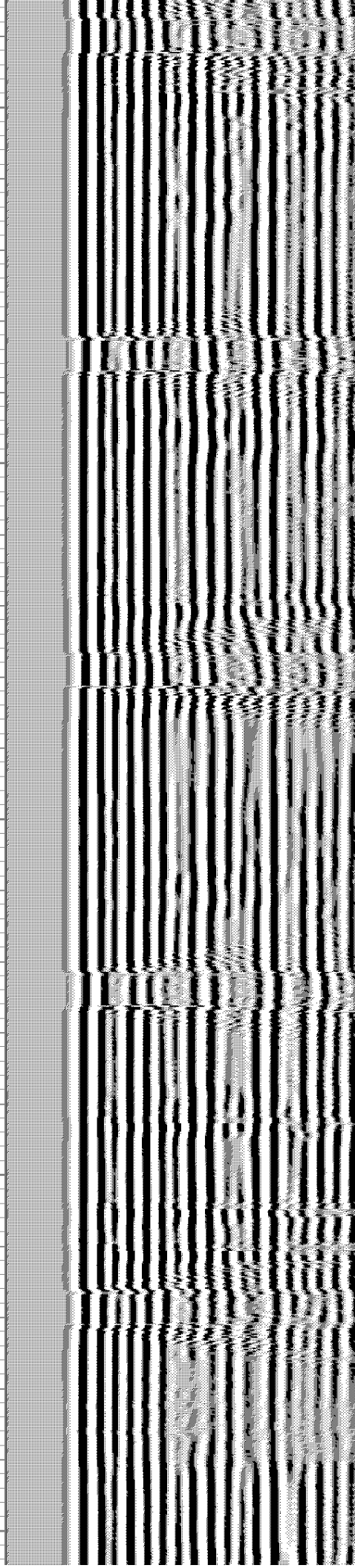
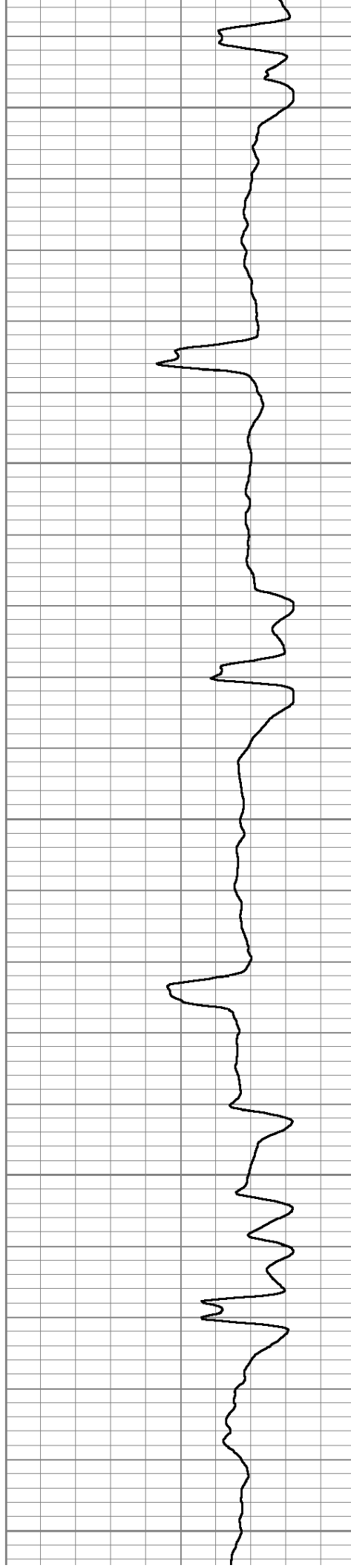
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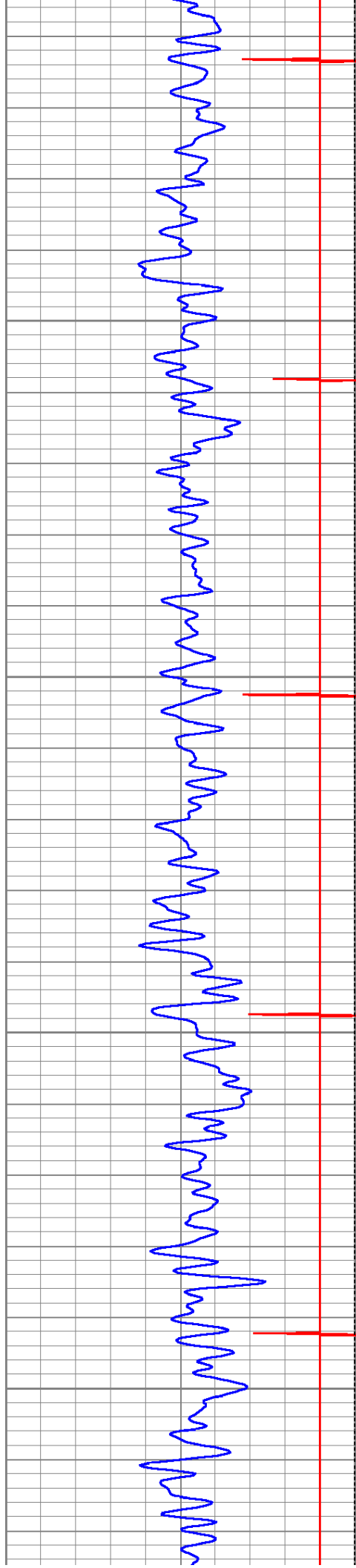
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1000

1050

1100



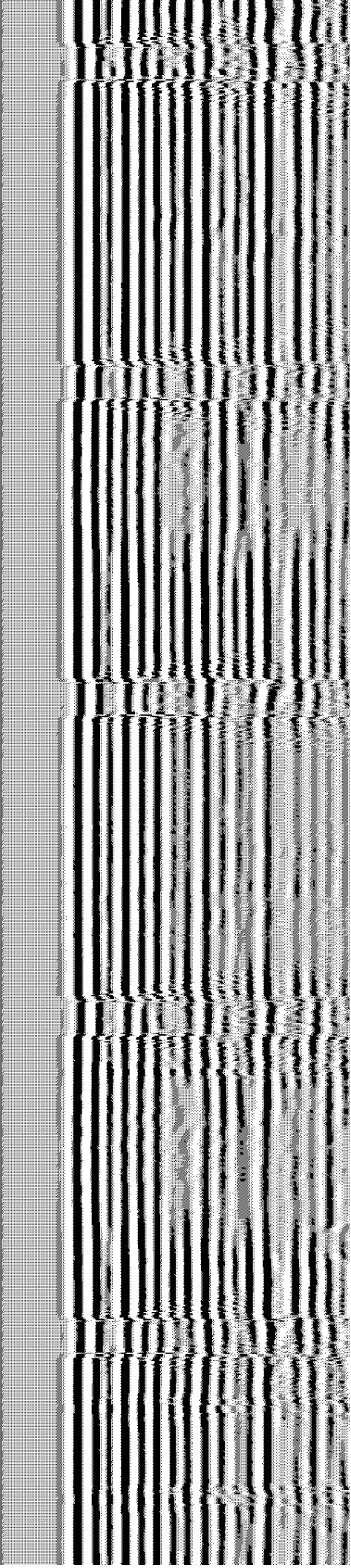
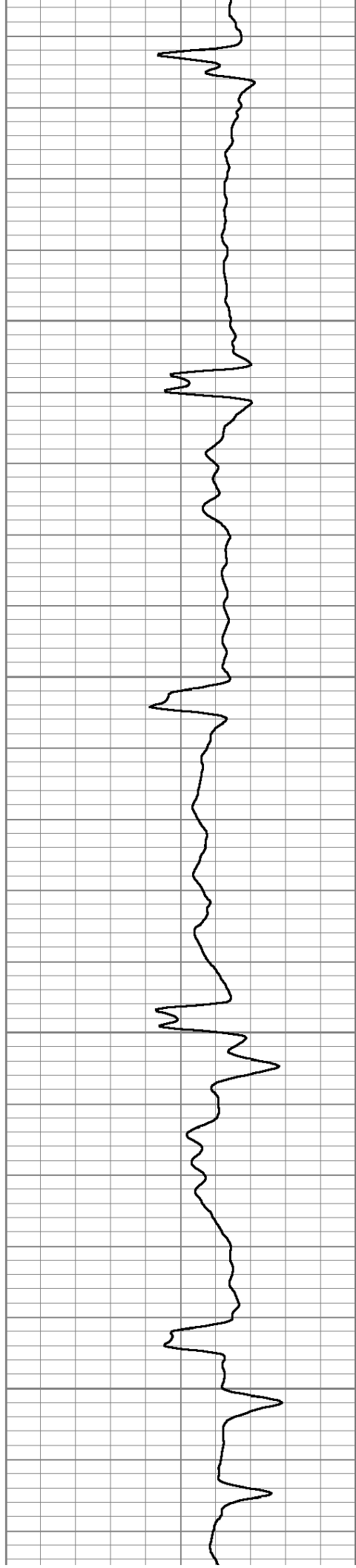


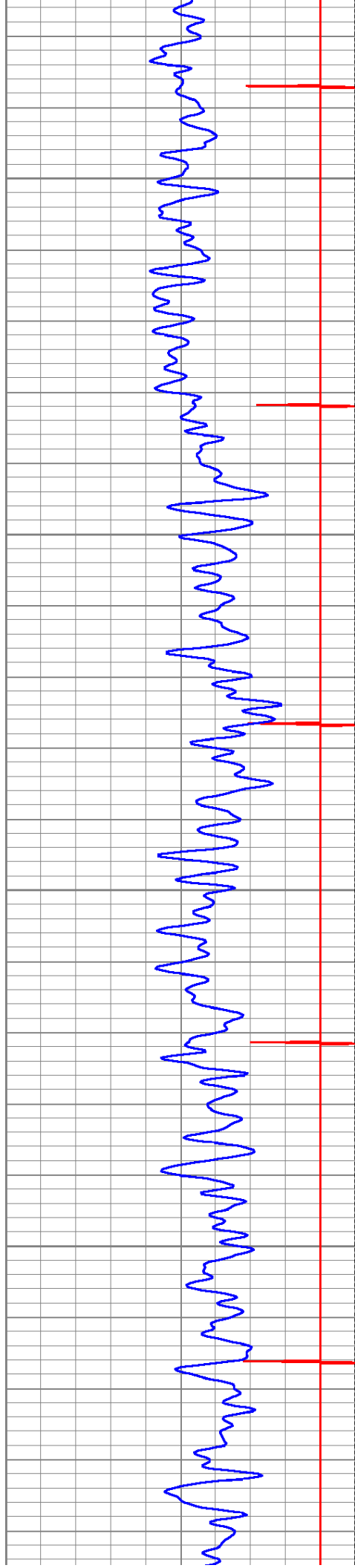
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1200

1250

1300



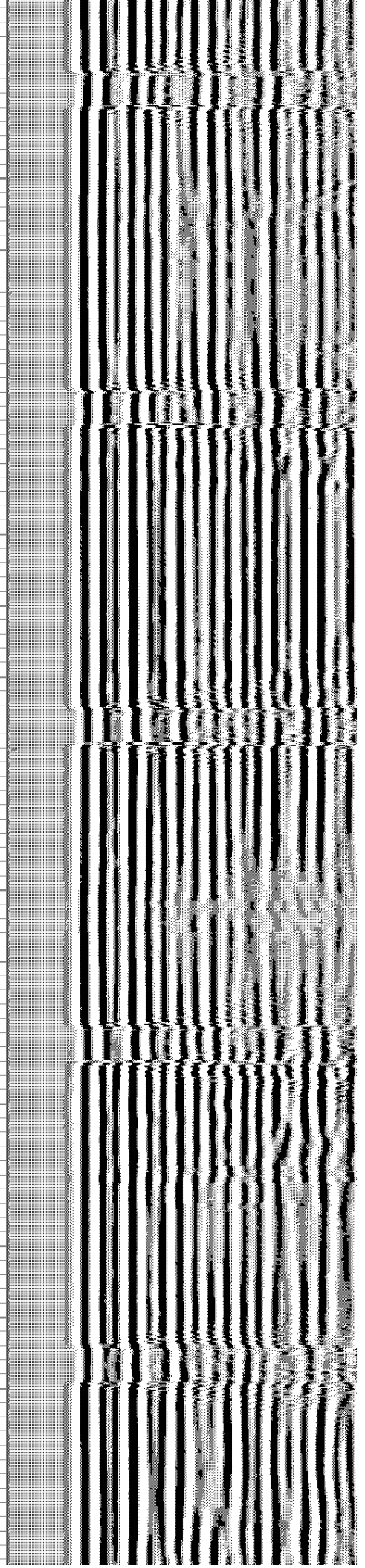
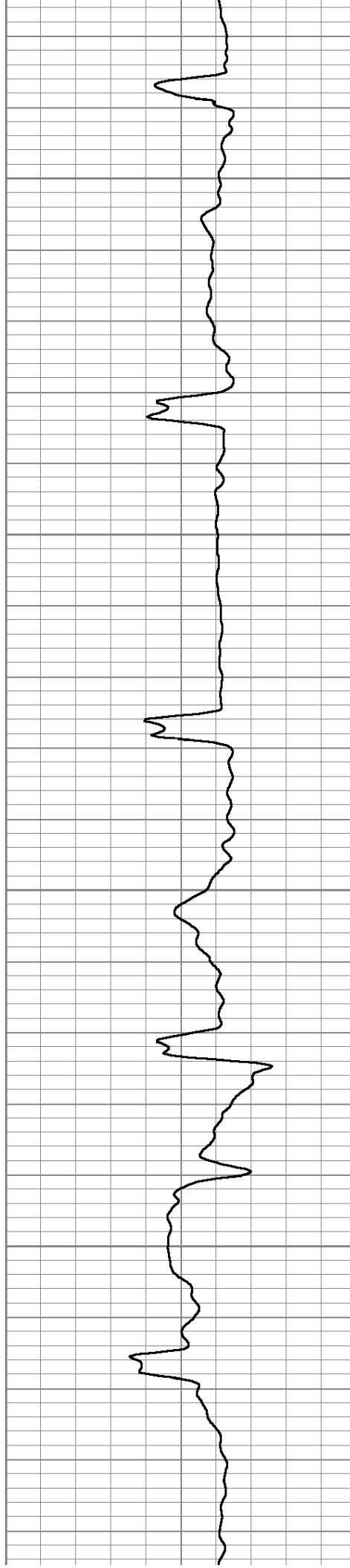


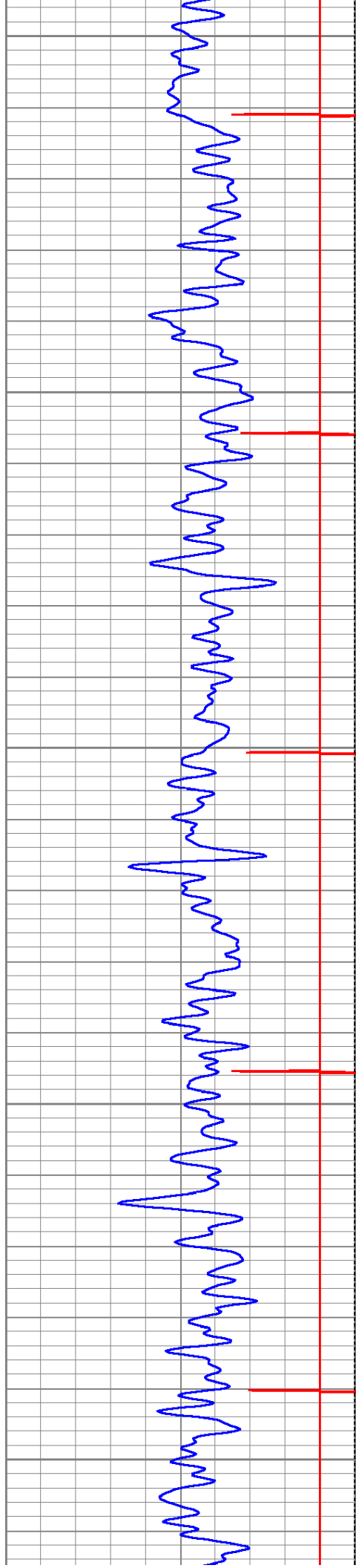
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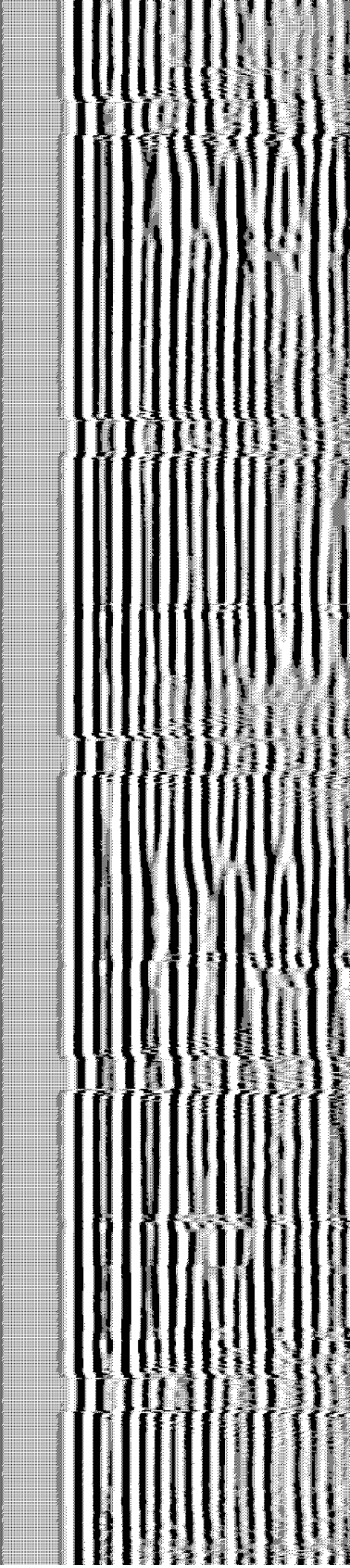
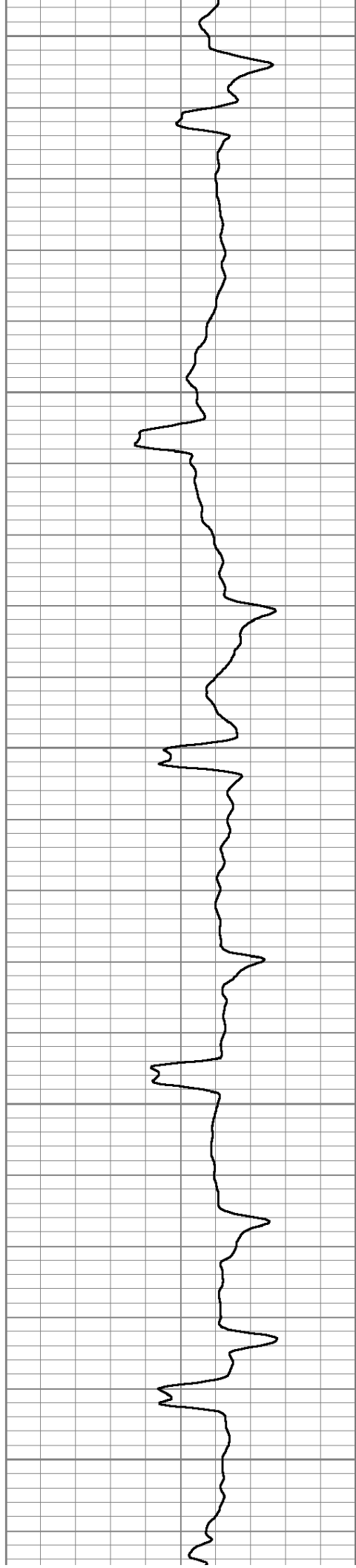
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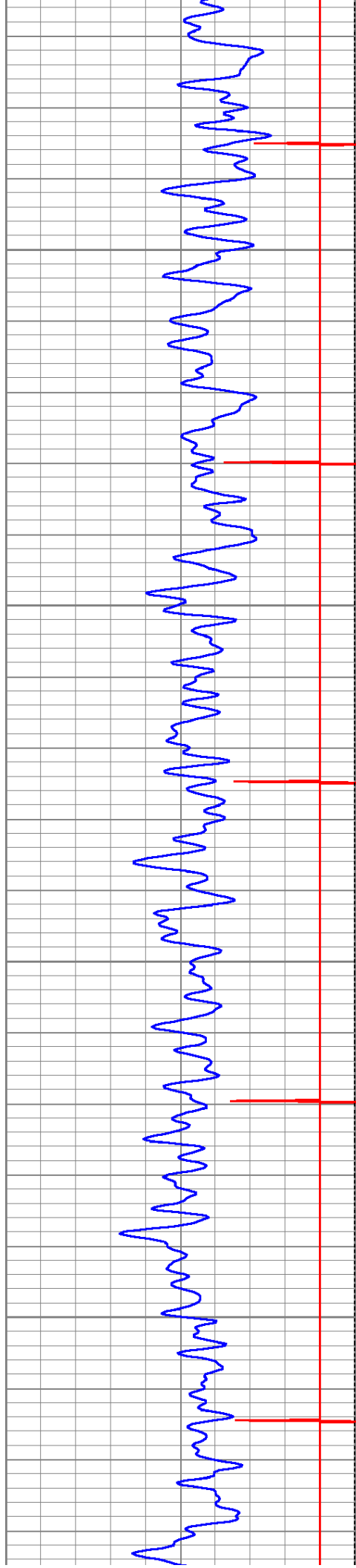
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1750



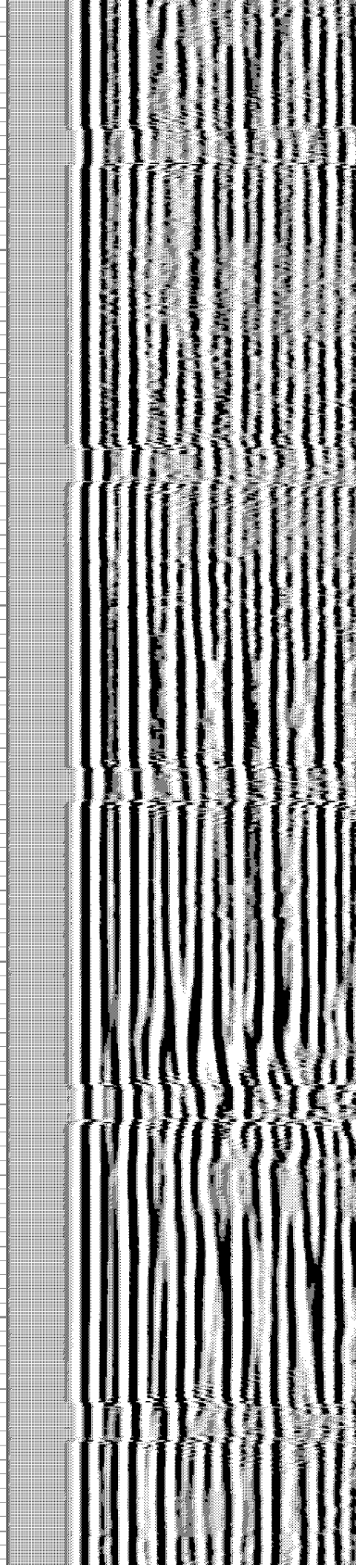
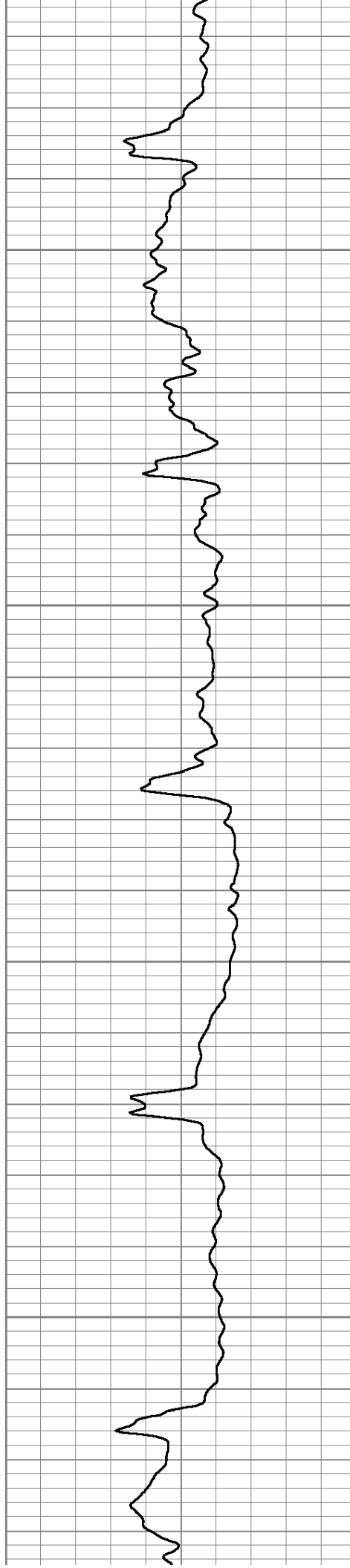


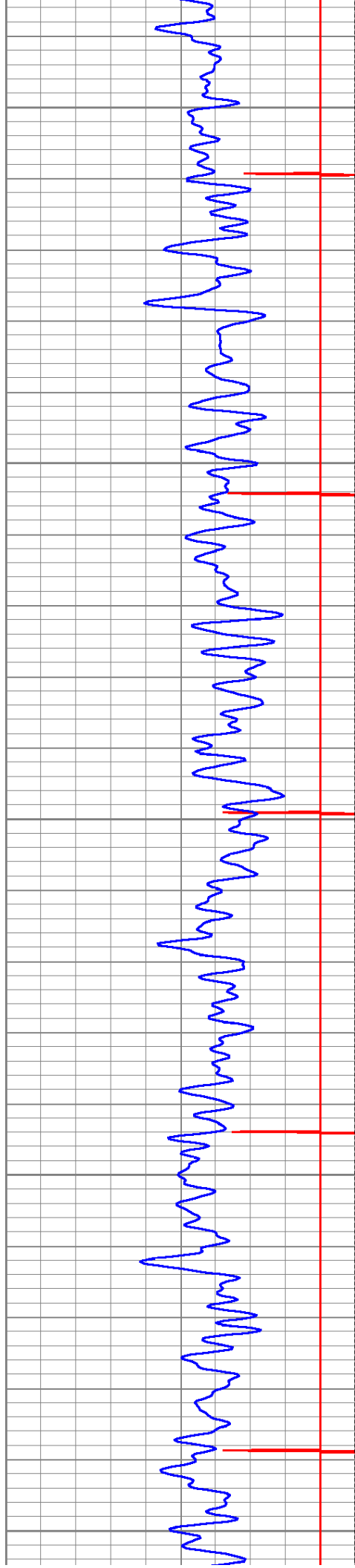
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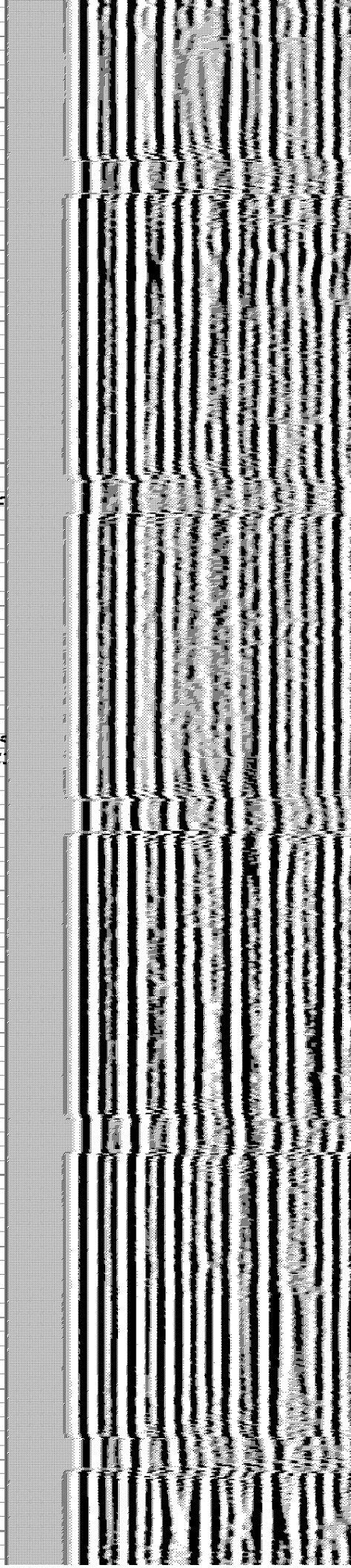
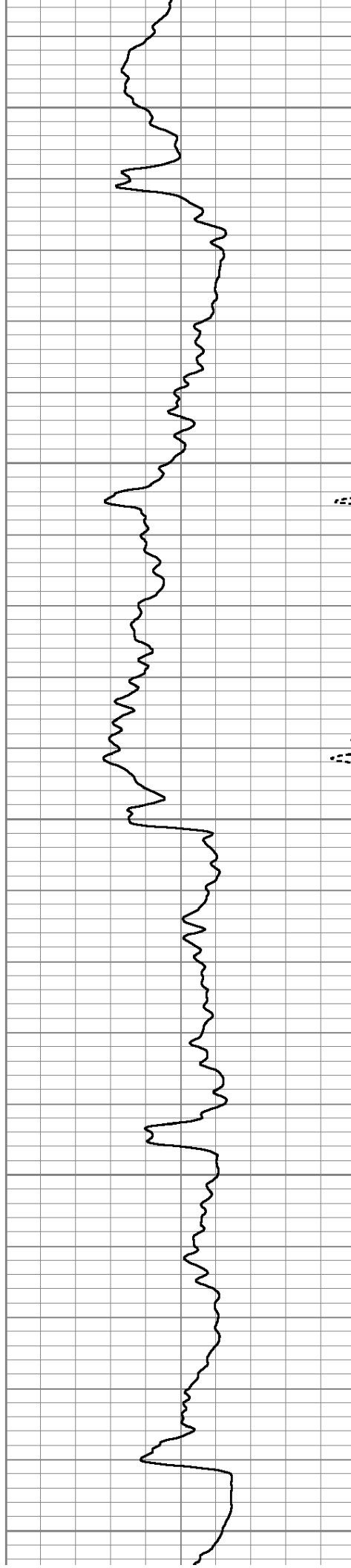
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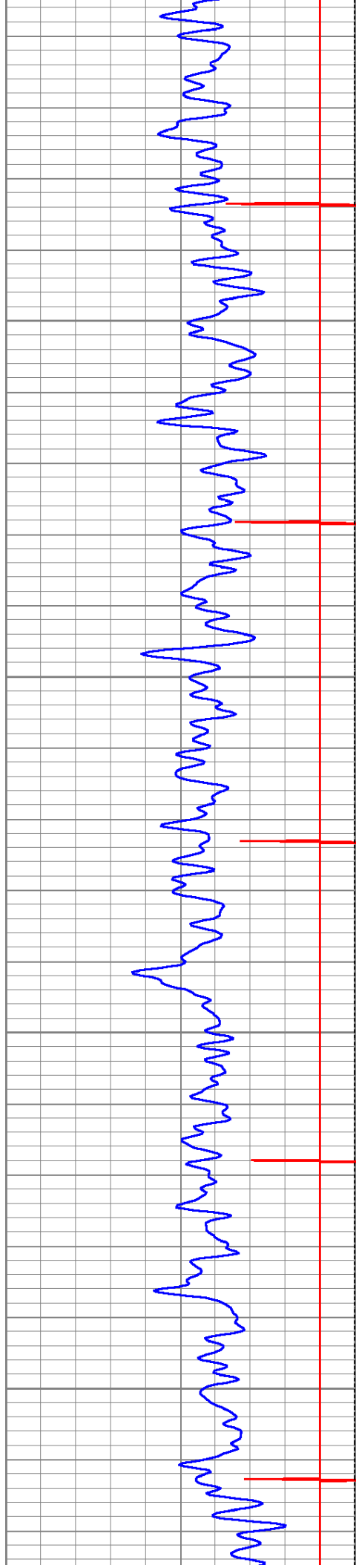
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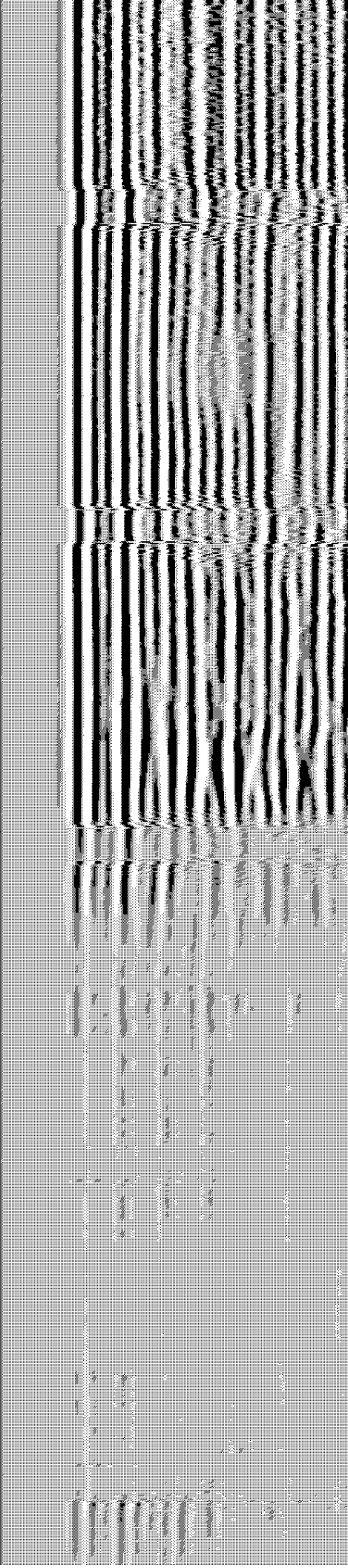
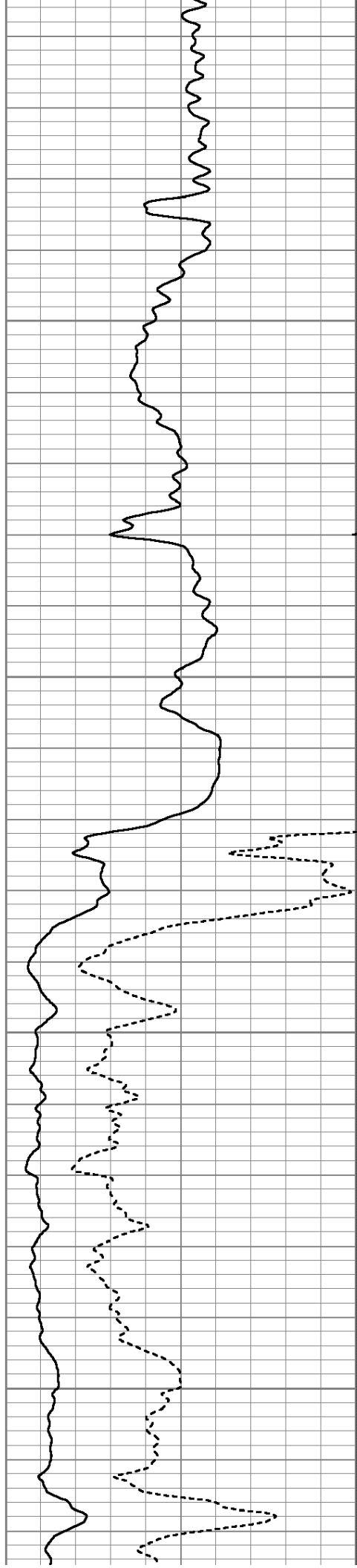


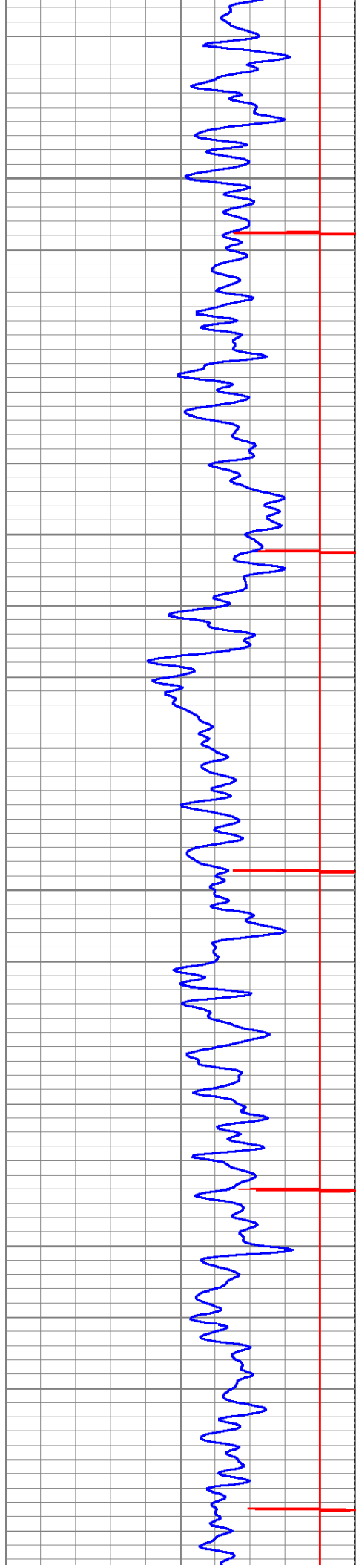
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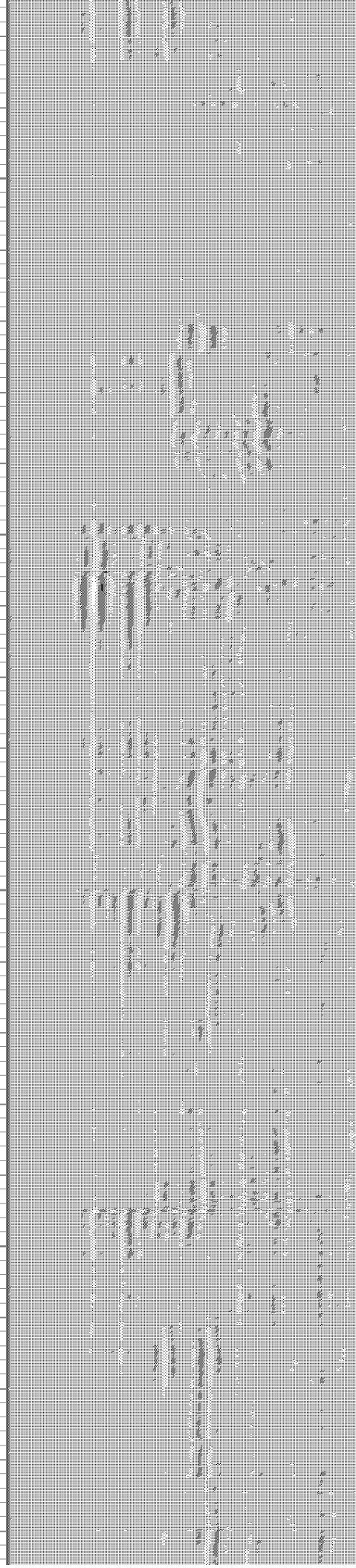
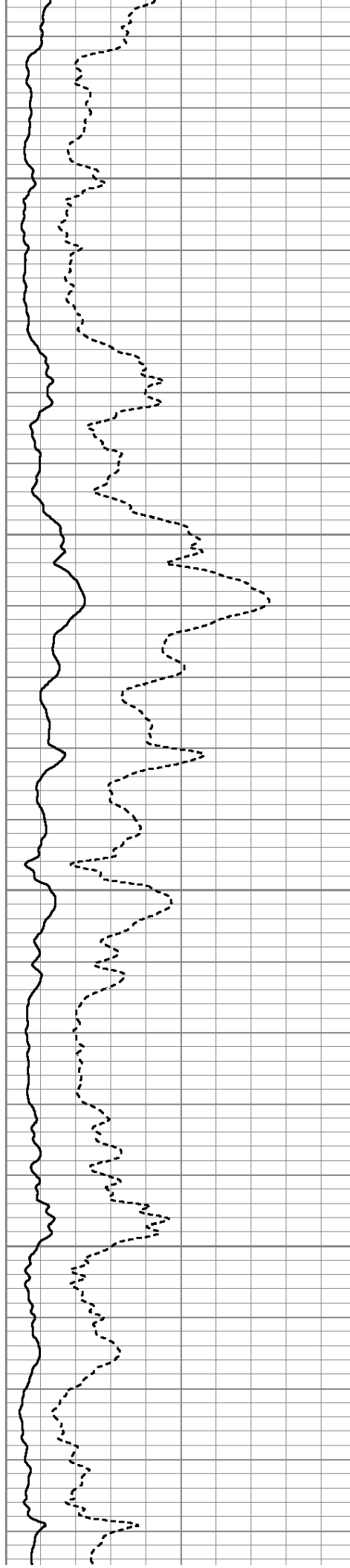


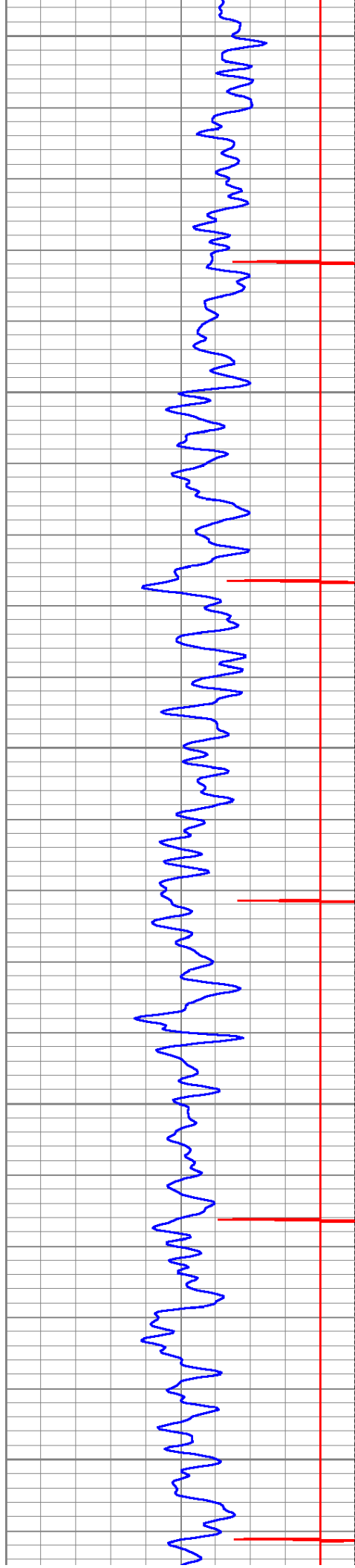
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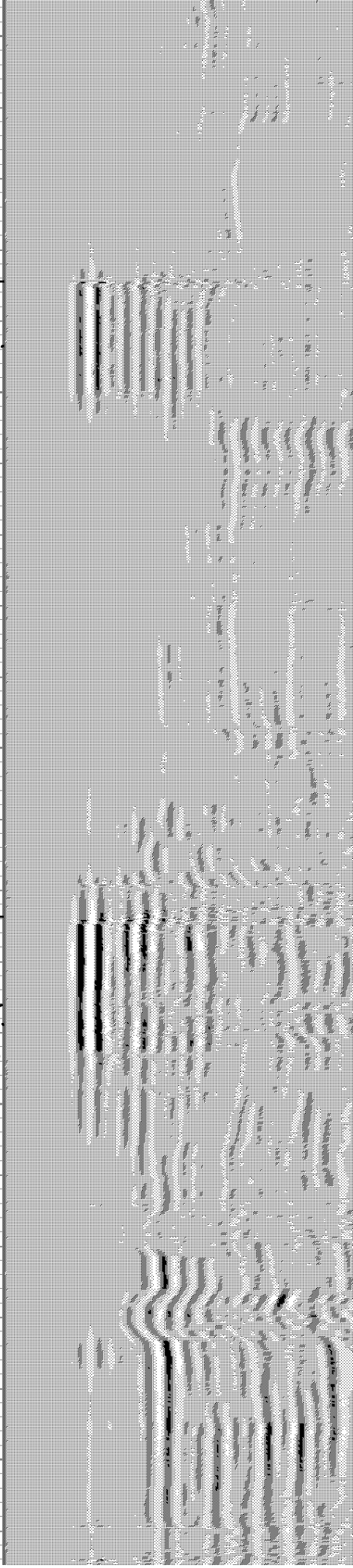
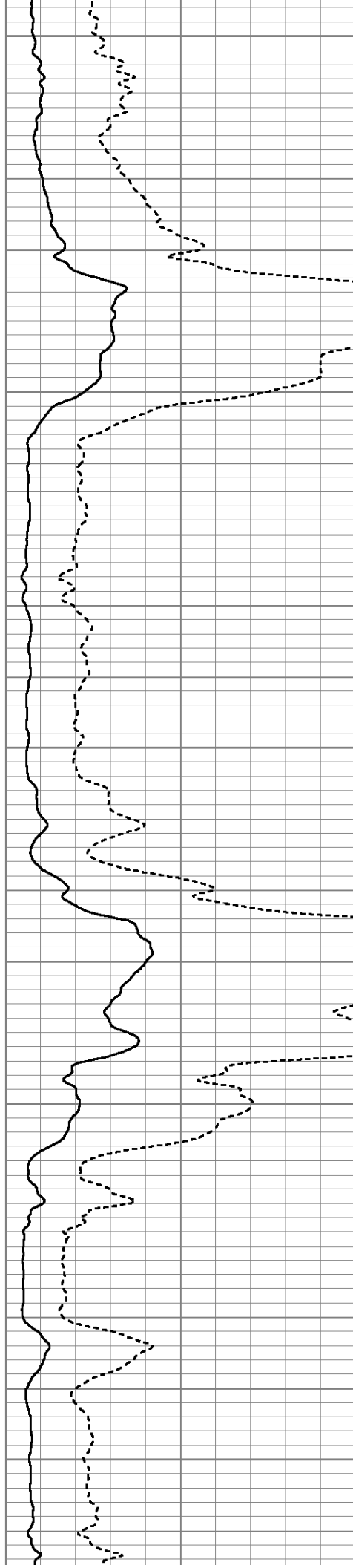
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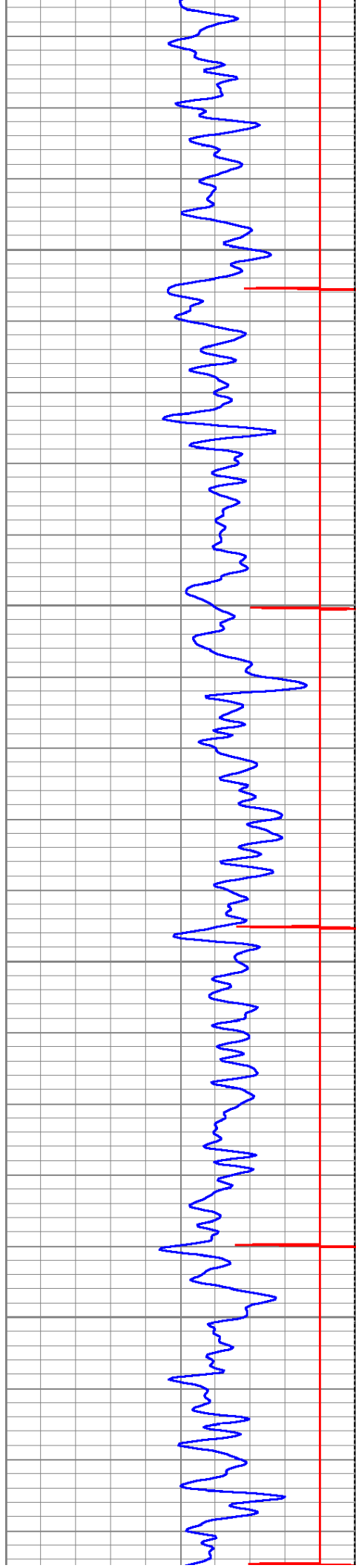
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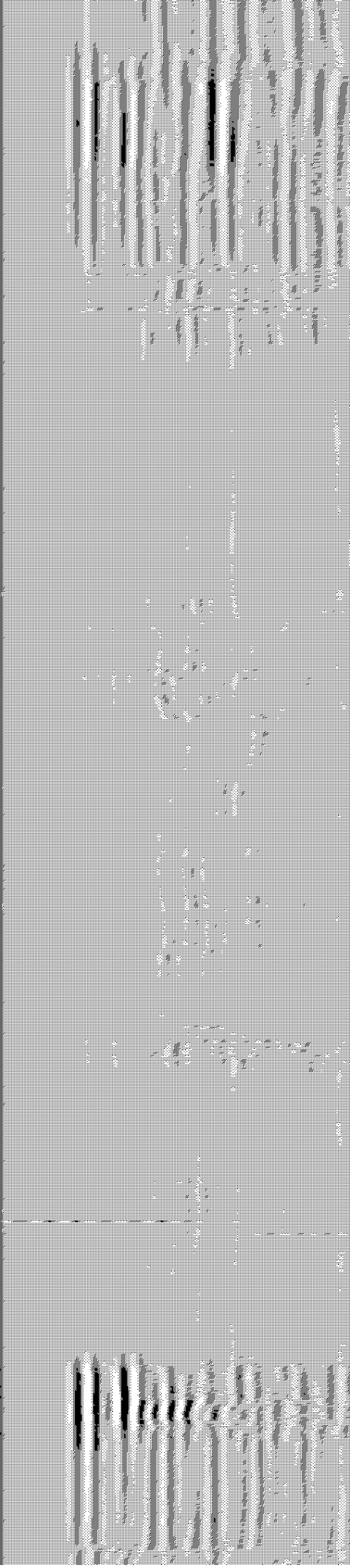
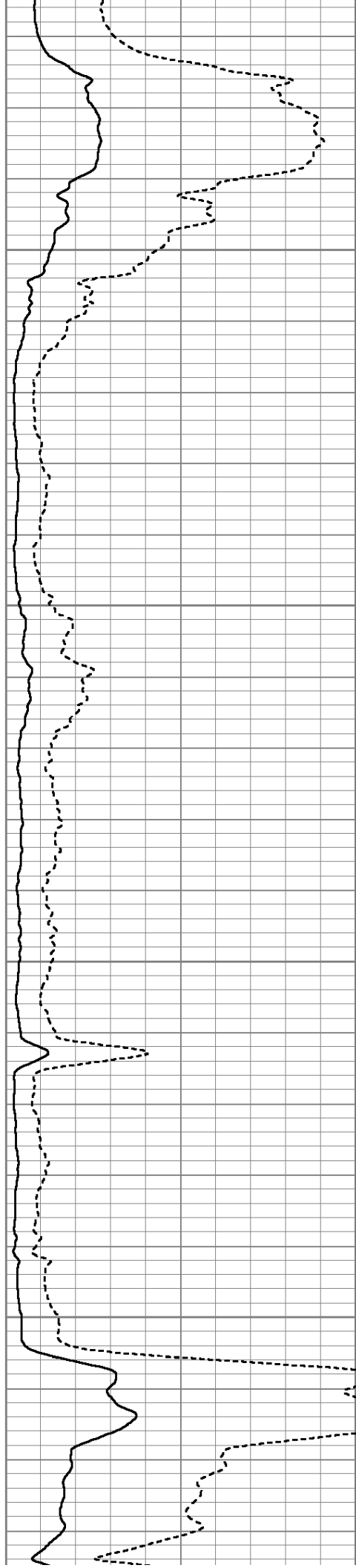


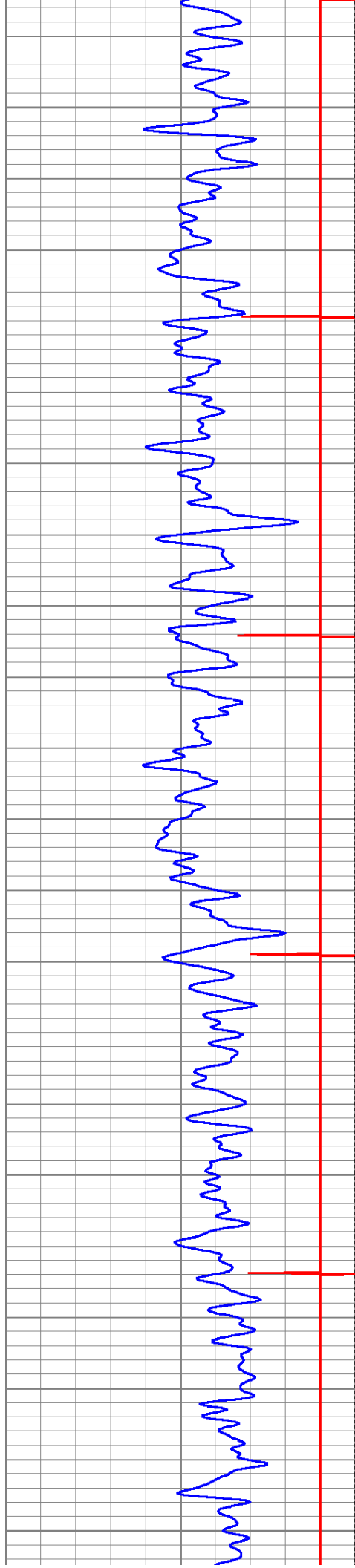
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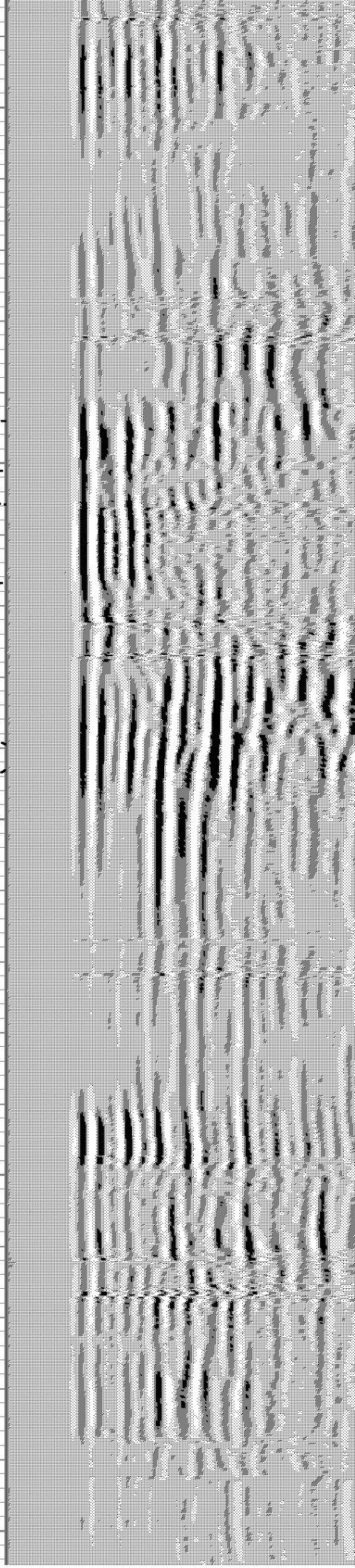
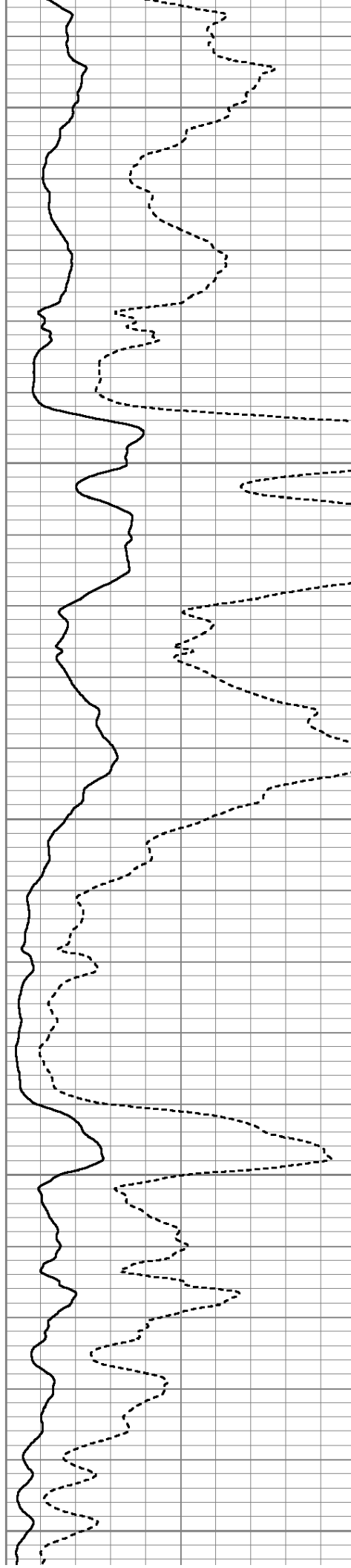
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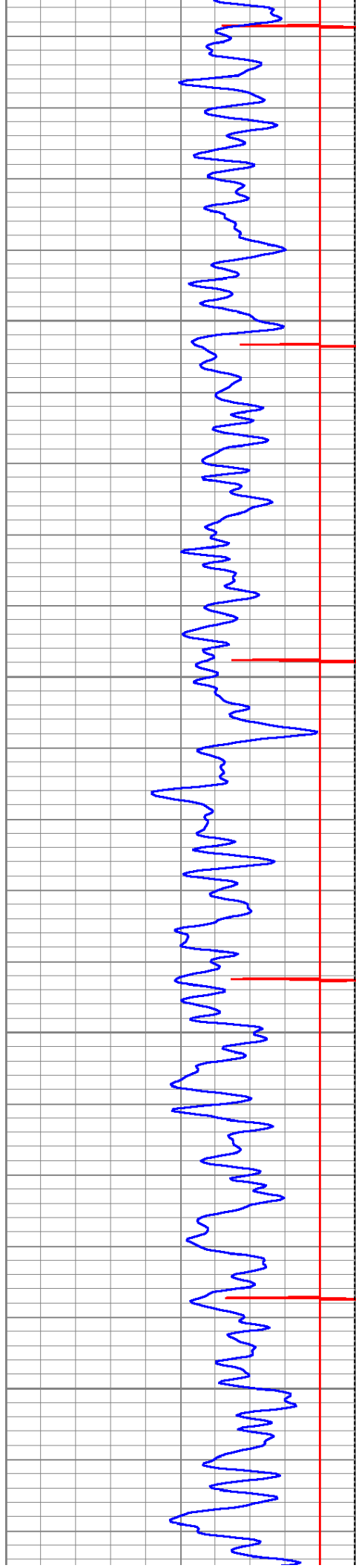
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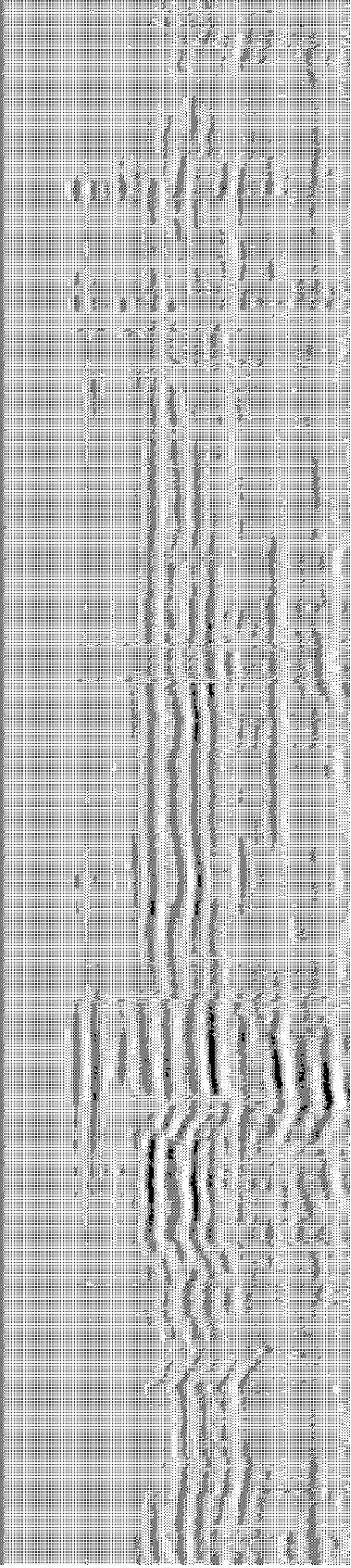
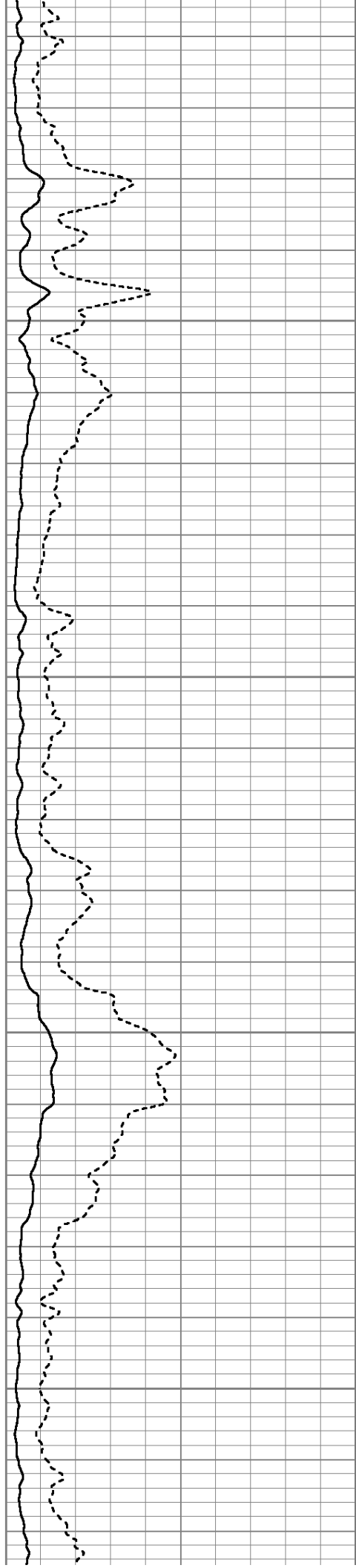


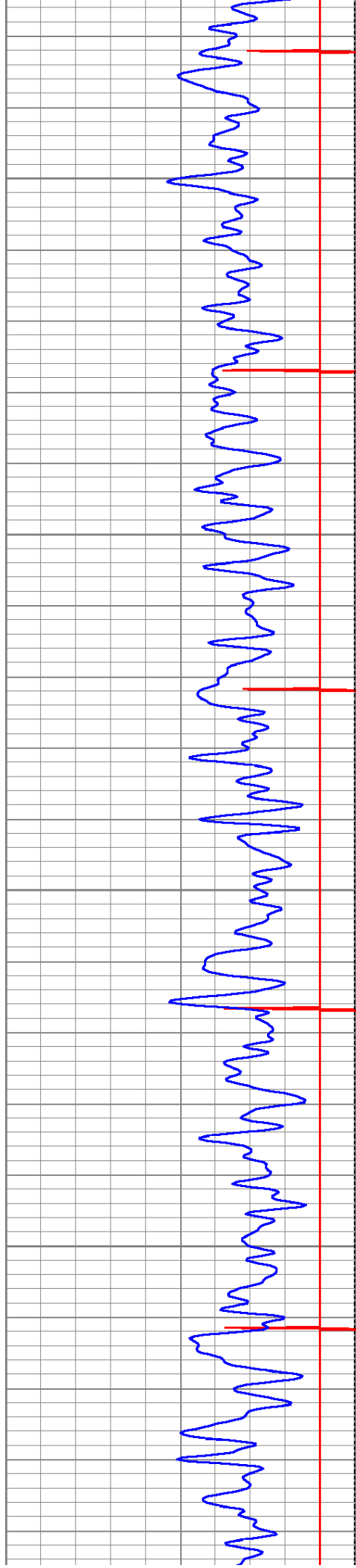
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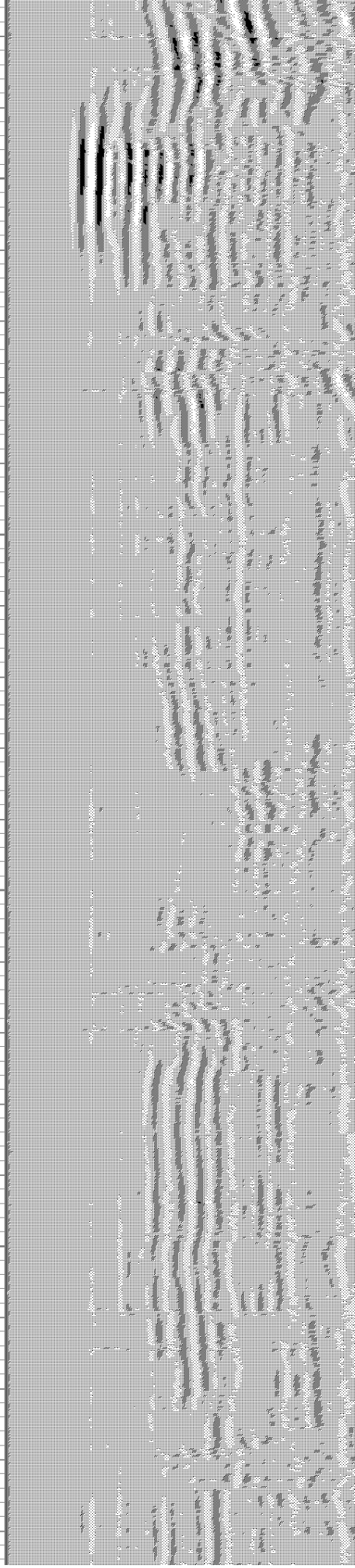
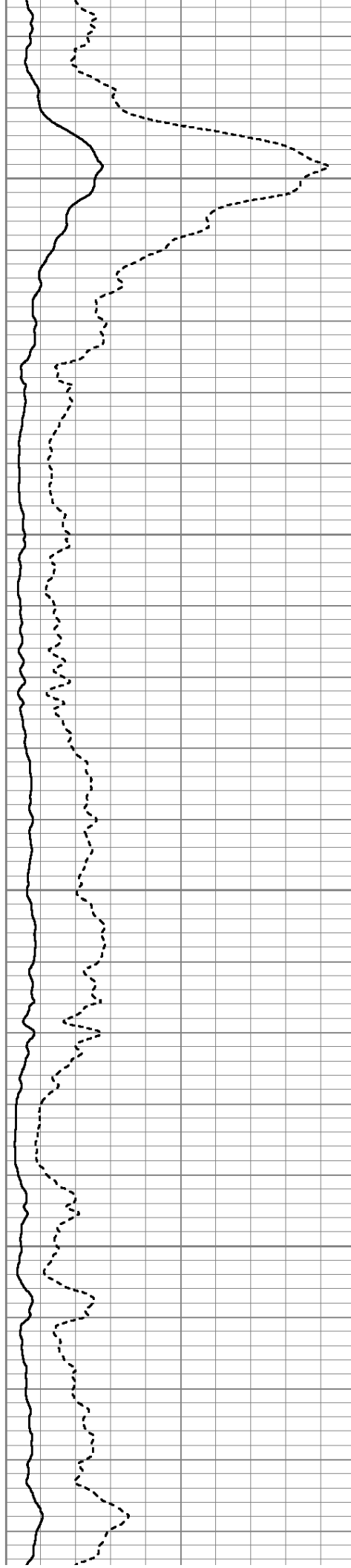


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3700





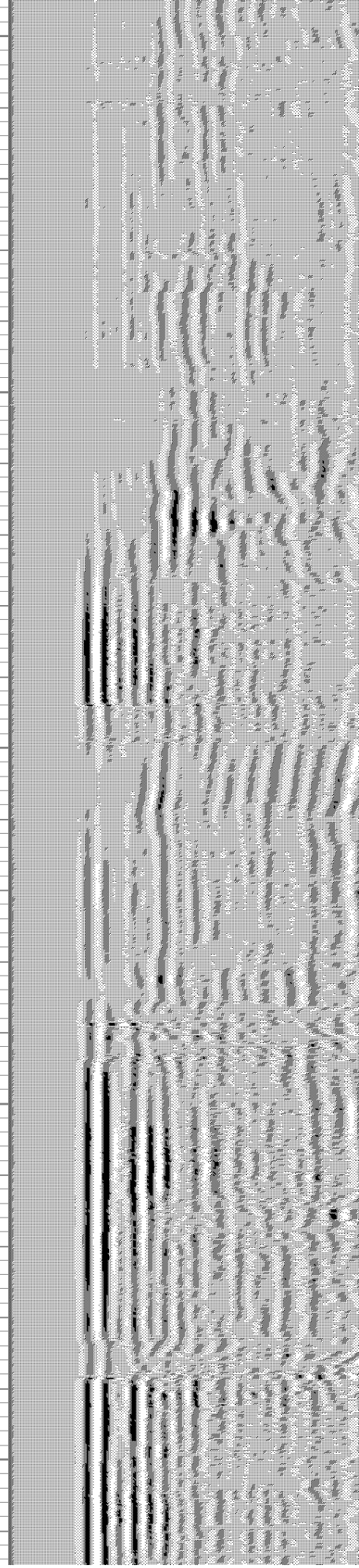
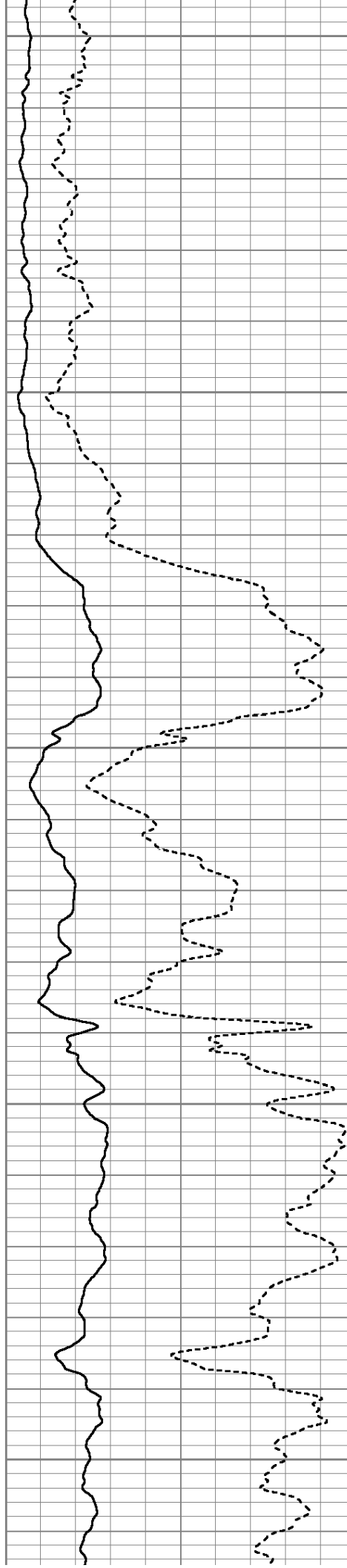
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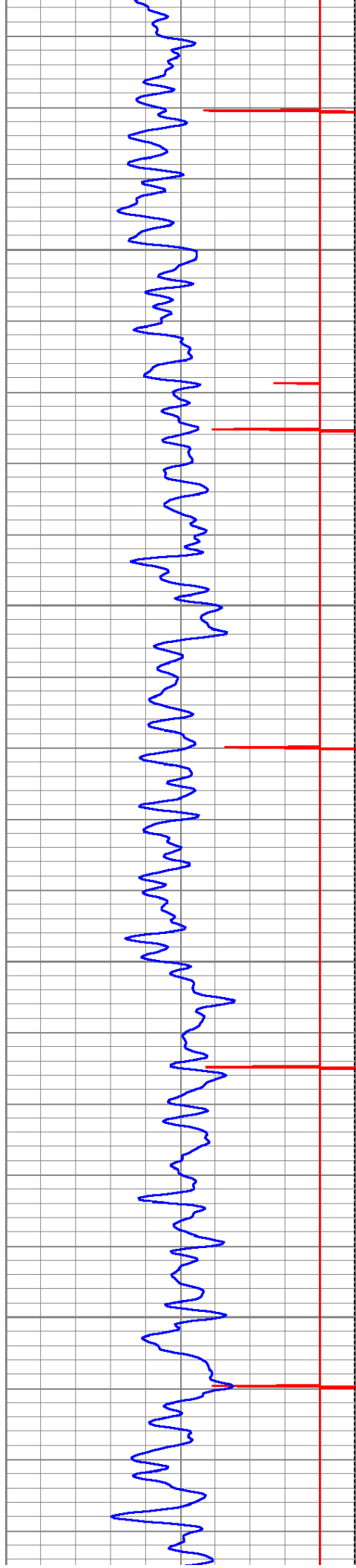
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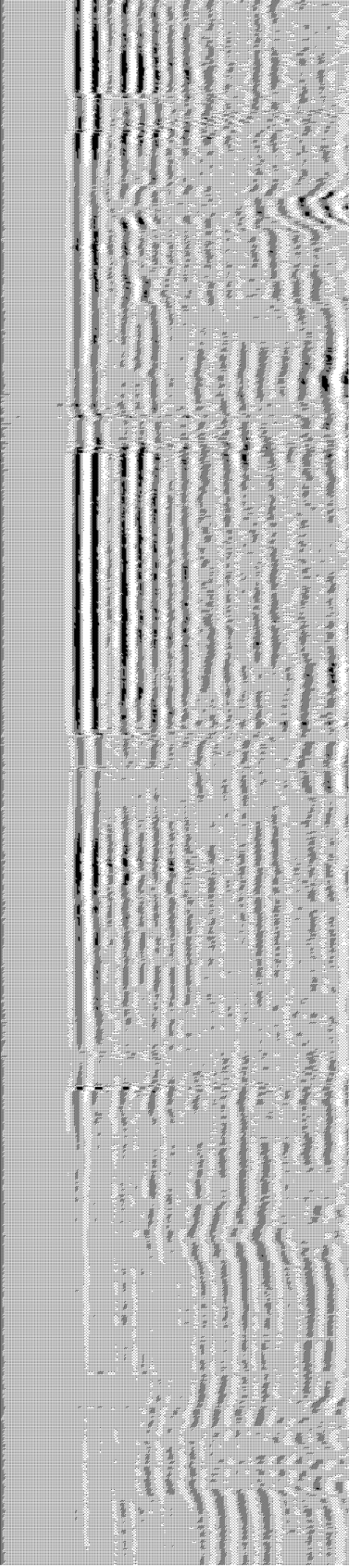
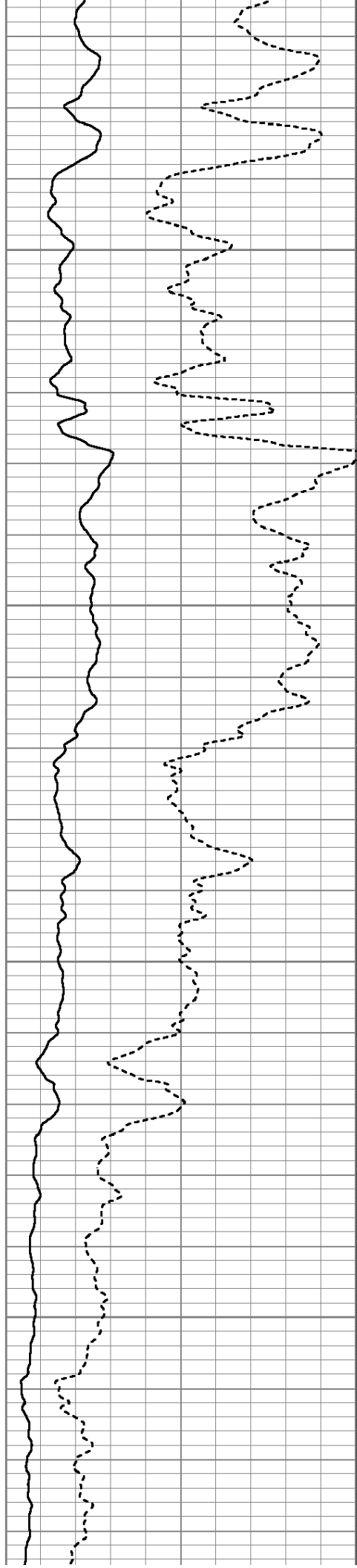


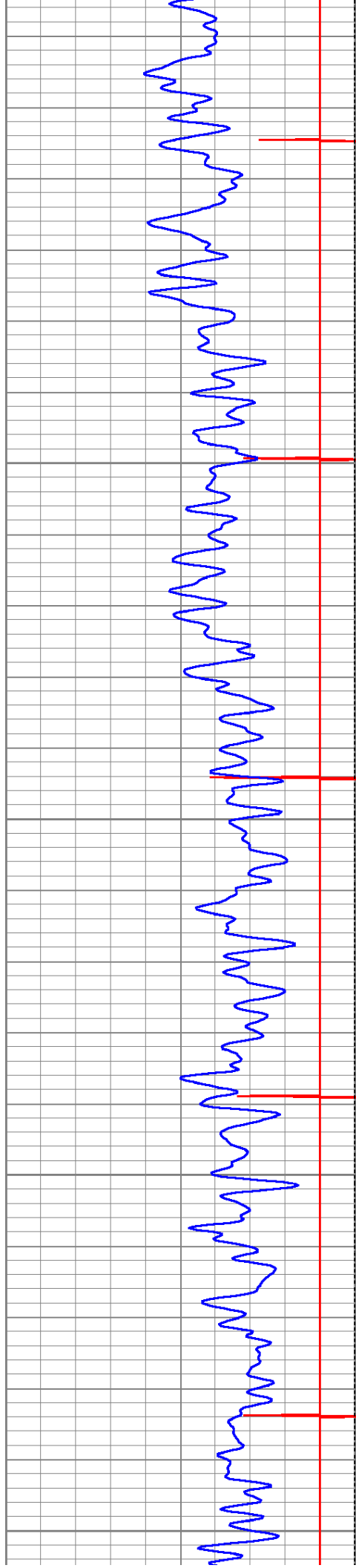
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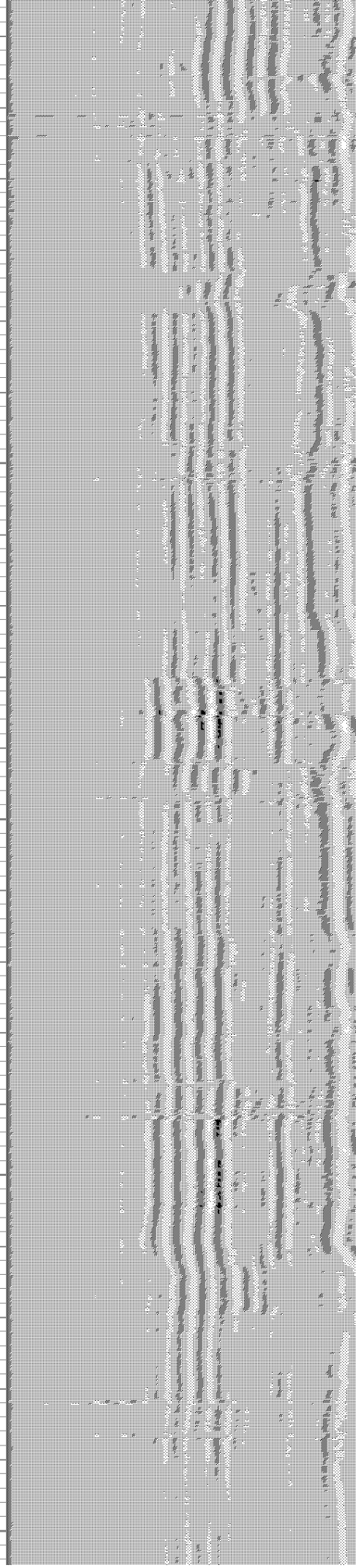
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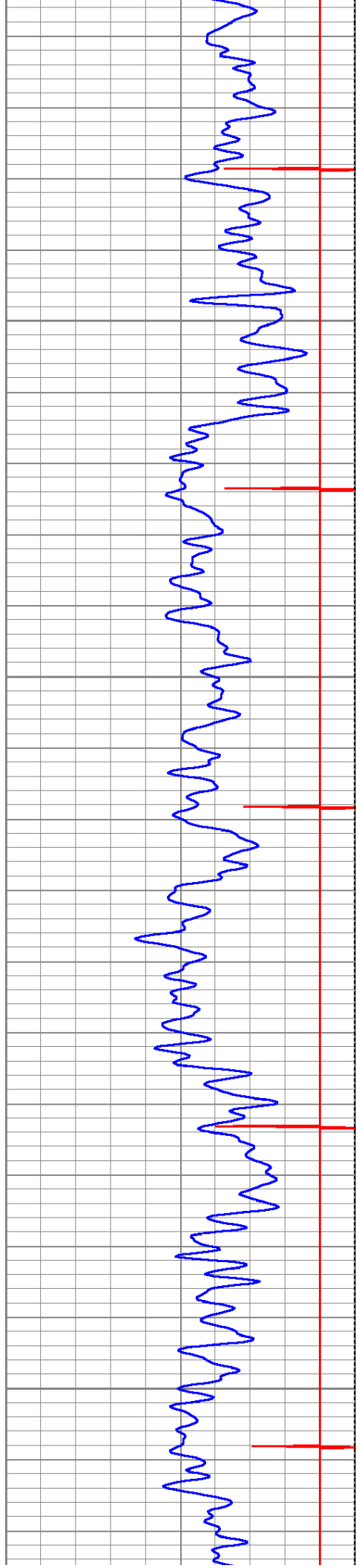
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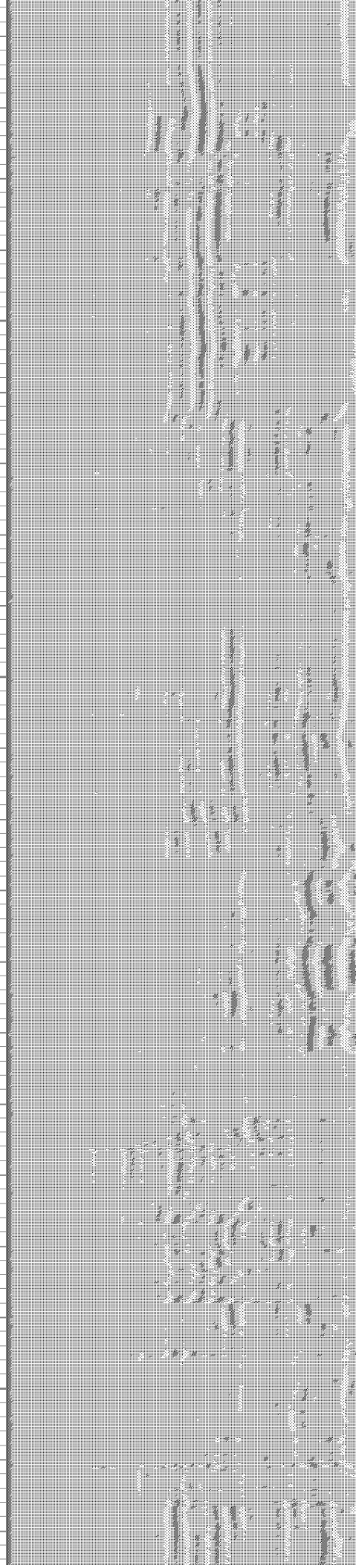
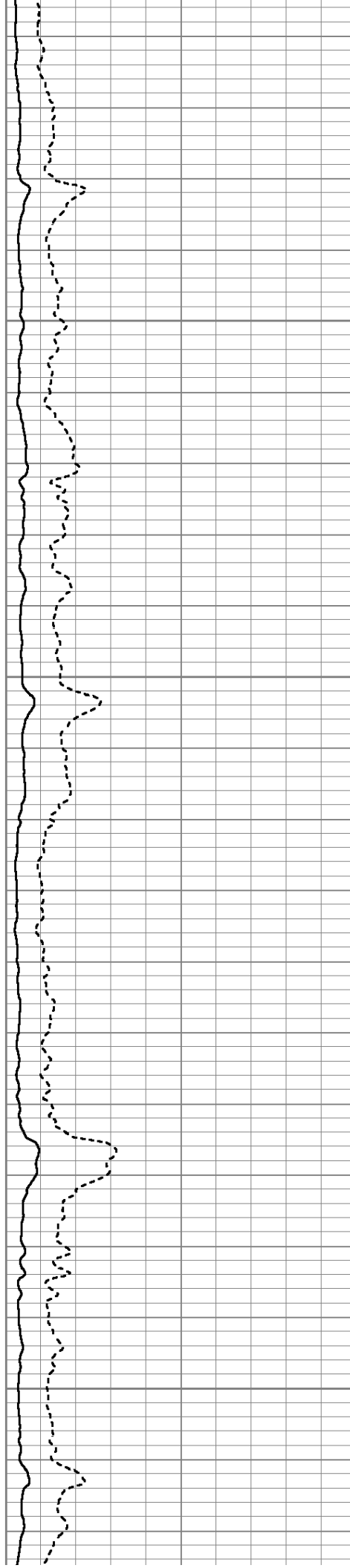


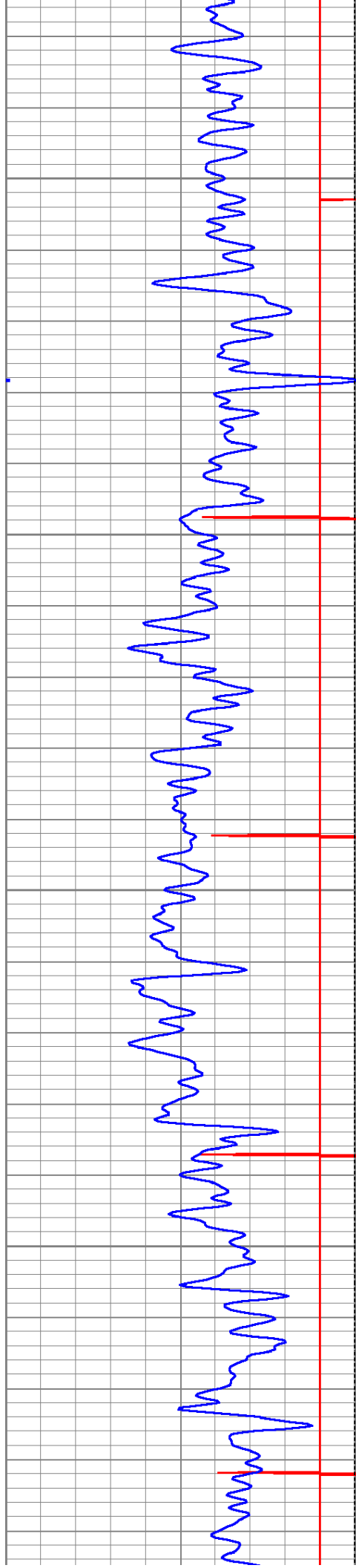
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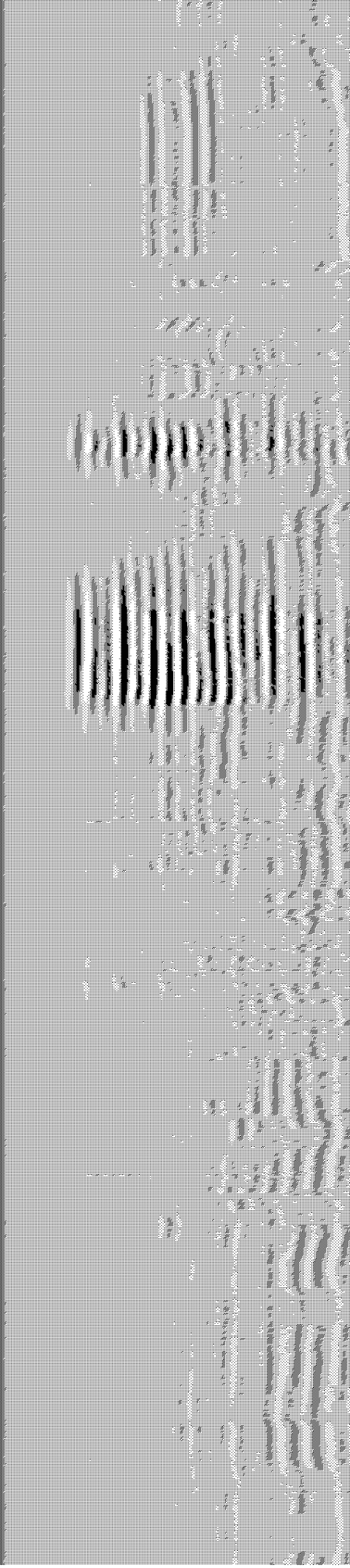
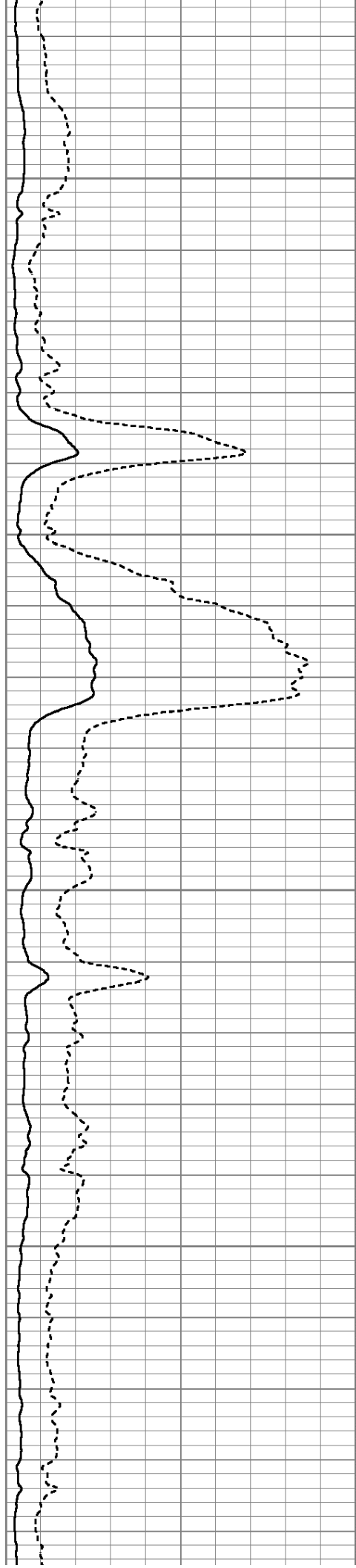


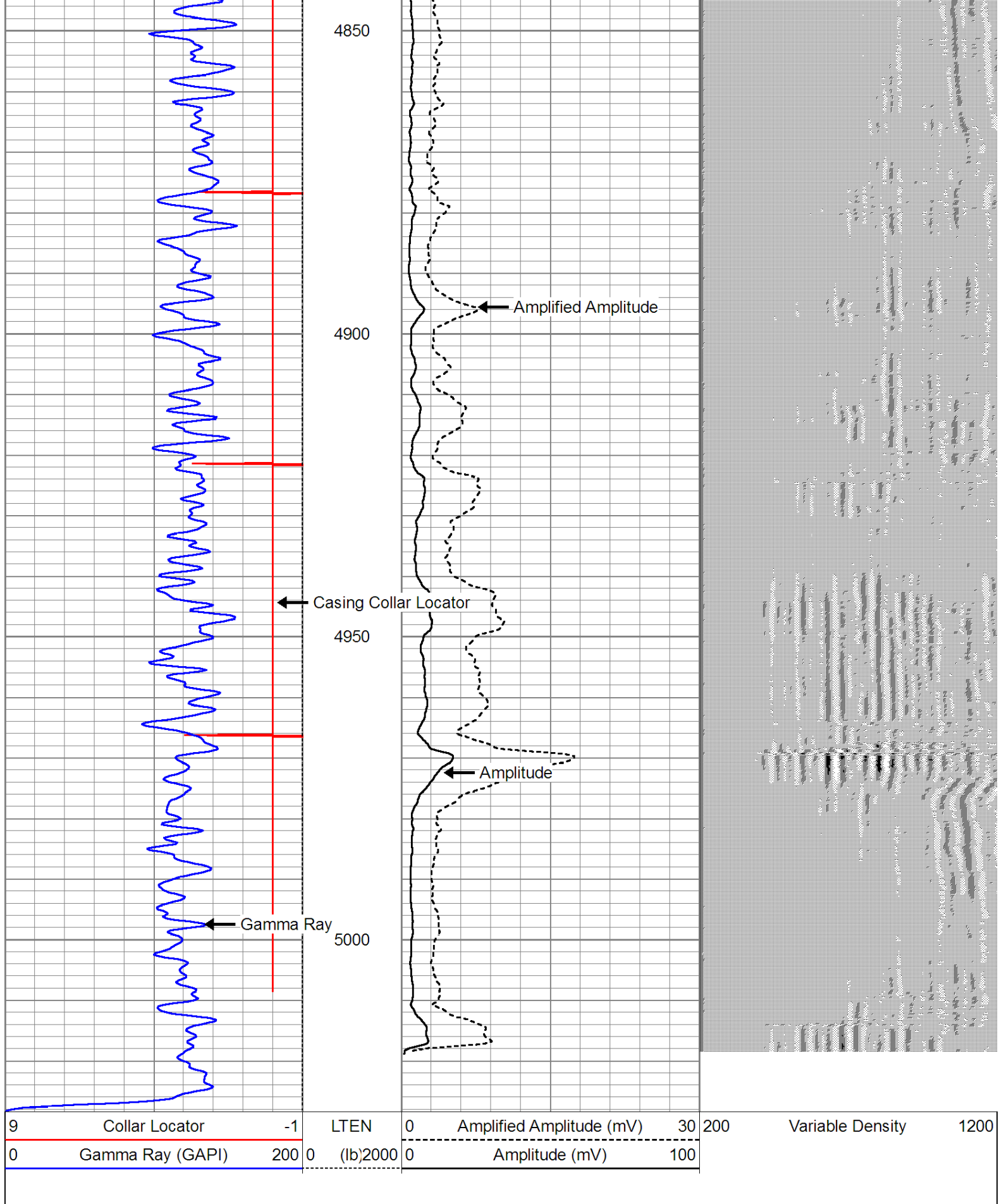
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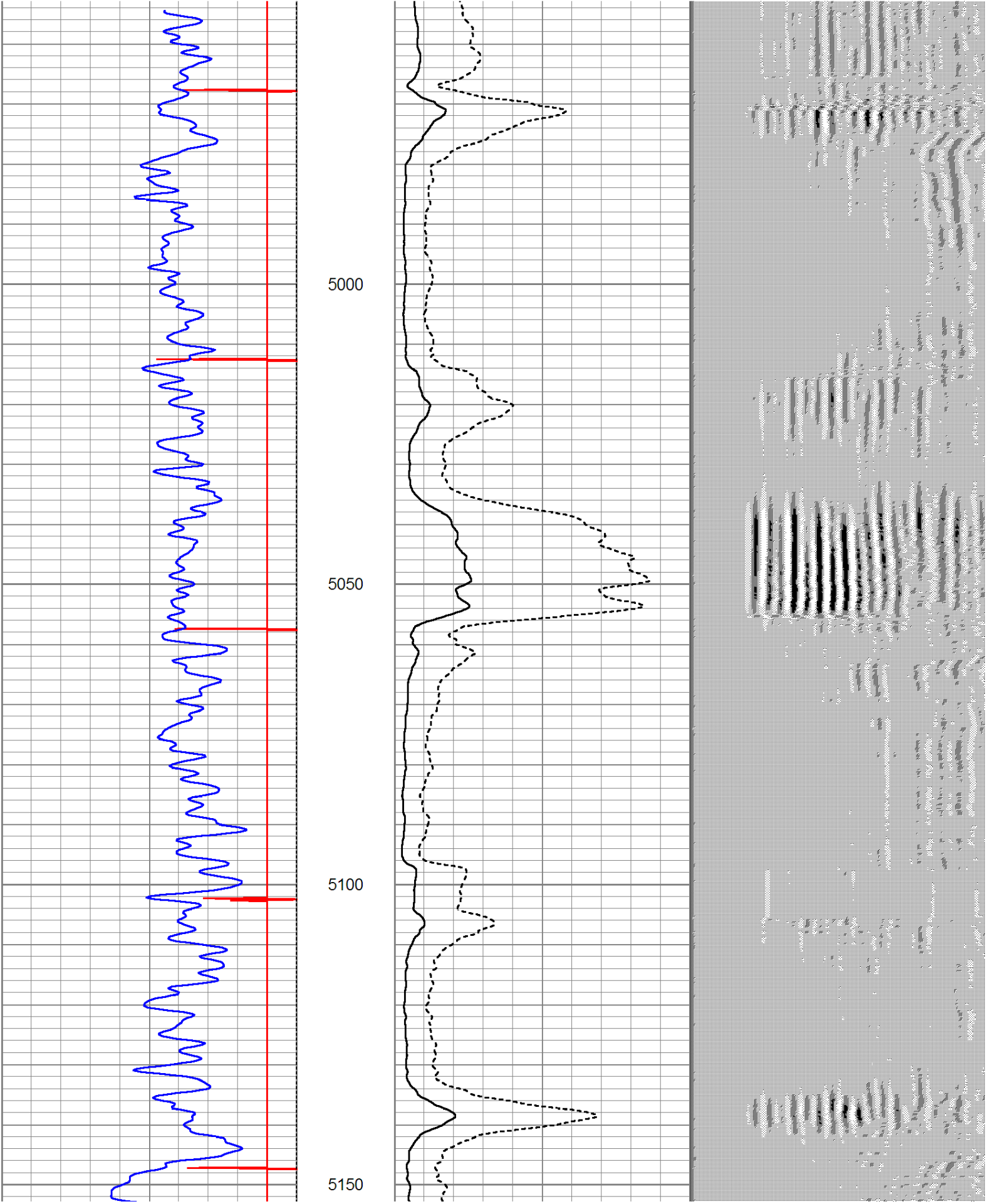
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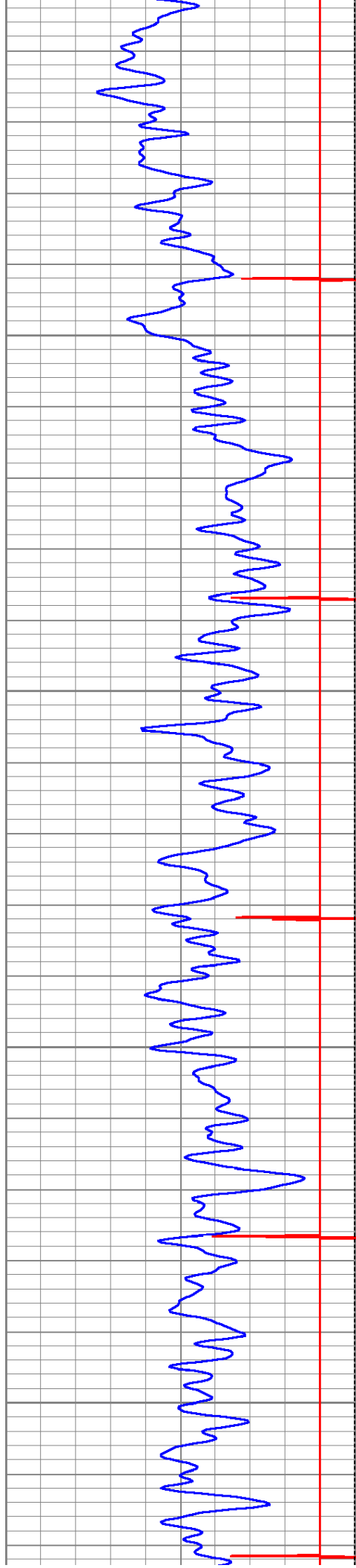




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Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Fri Sep 28 23:34:16 2012 by Log SCH 120126
Checked by: [illegible]

9	Collar Locator	-1	LTEN	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
0	Gamma Ray (GAPI)	200	0 (lb)2000	0	Amplitude (mV)	100			



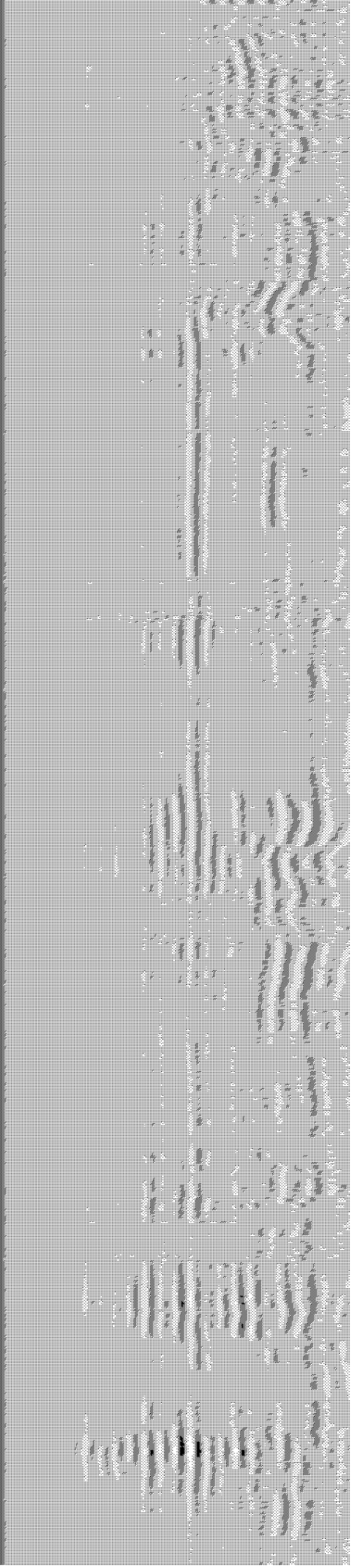
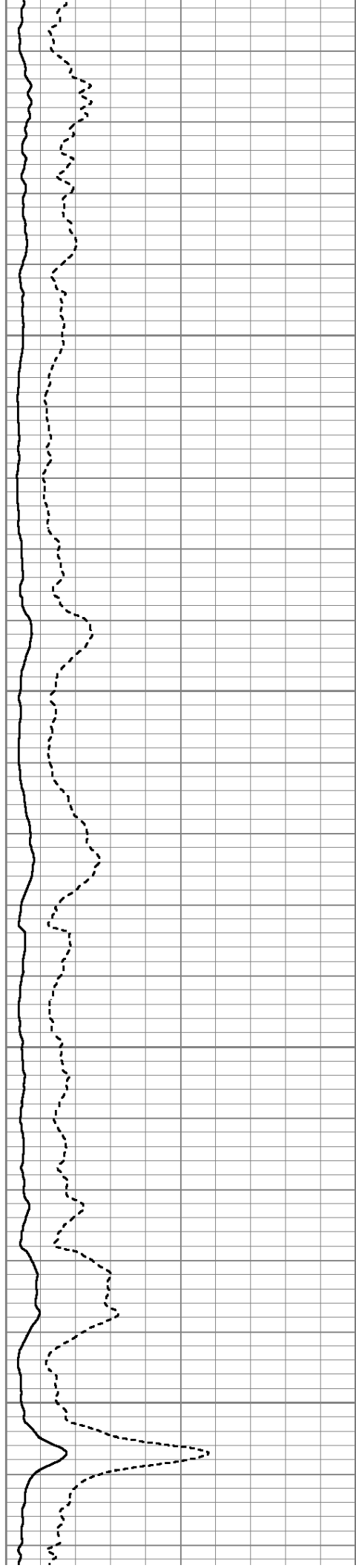


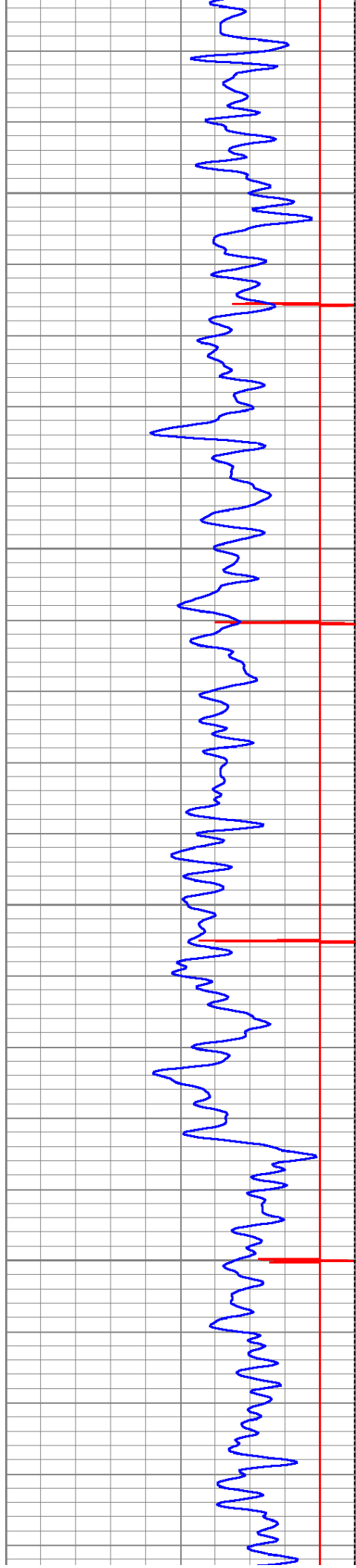
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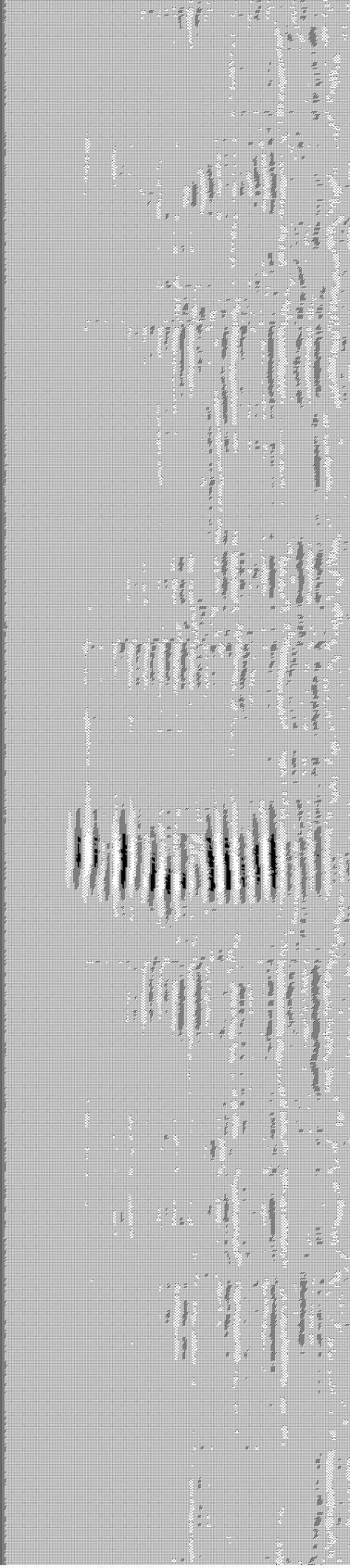
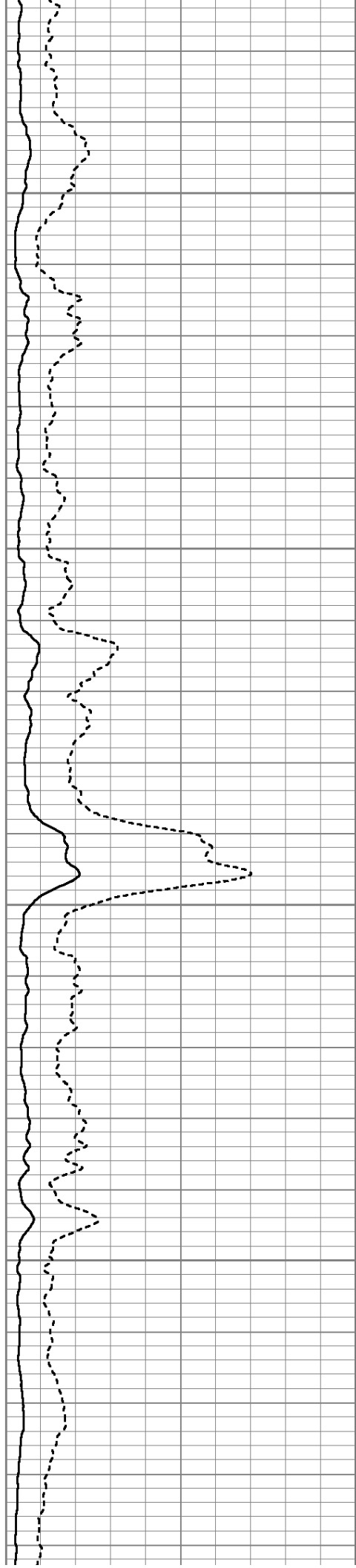


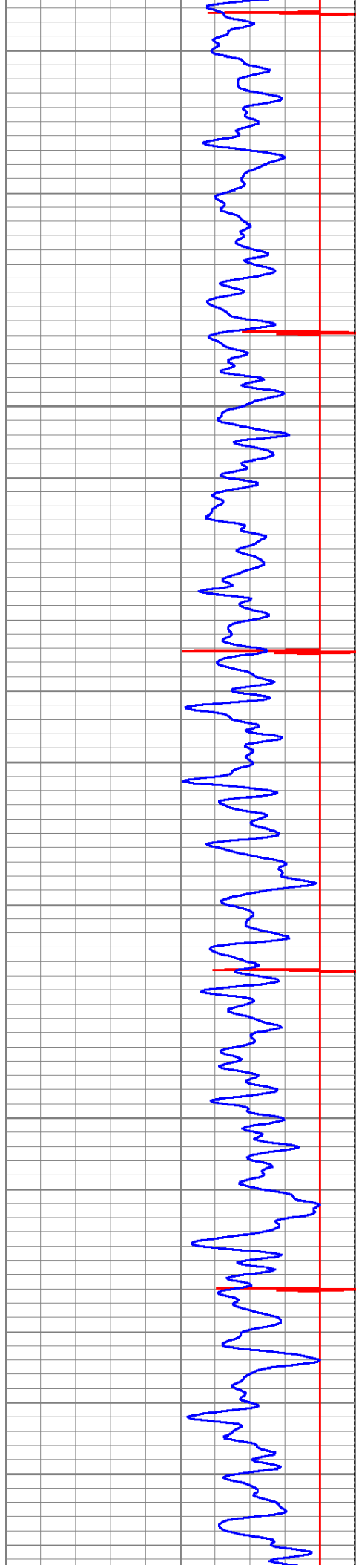
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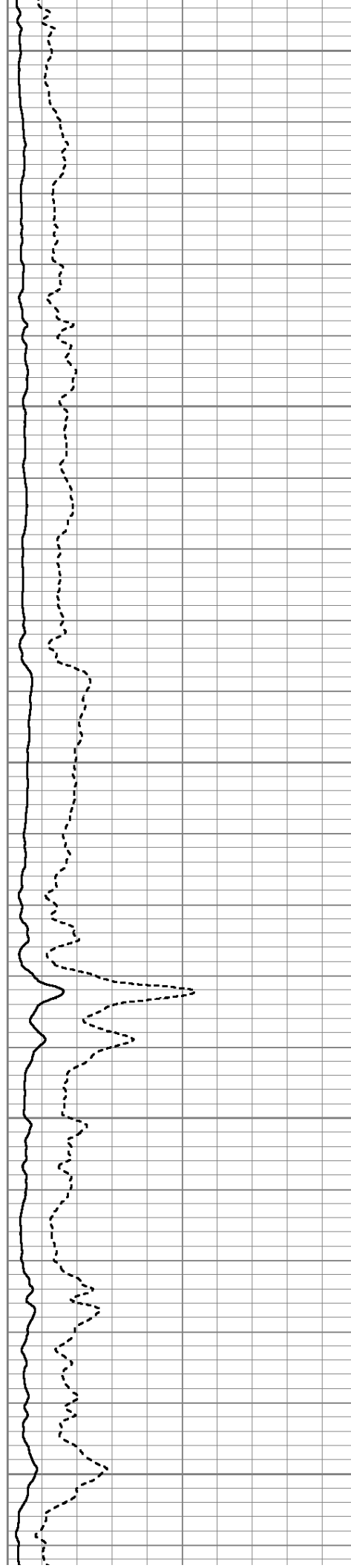
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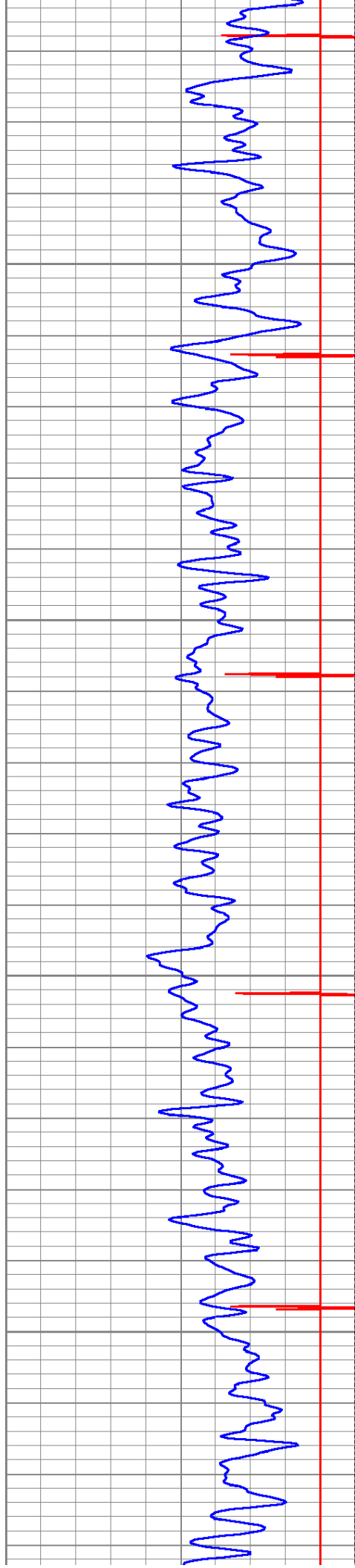
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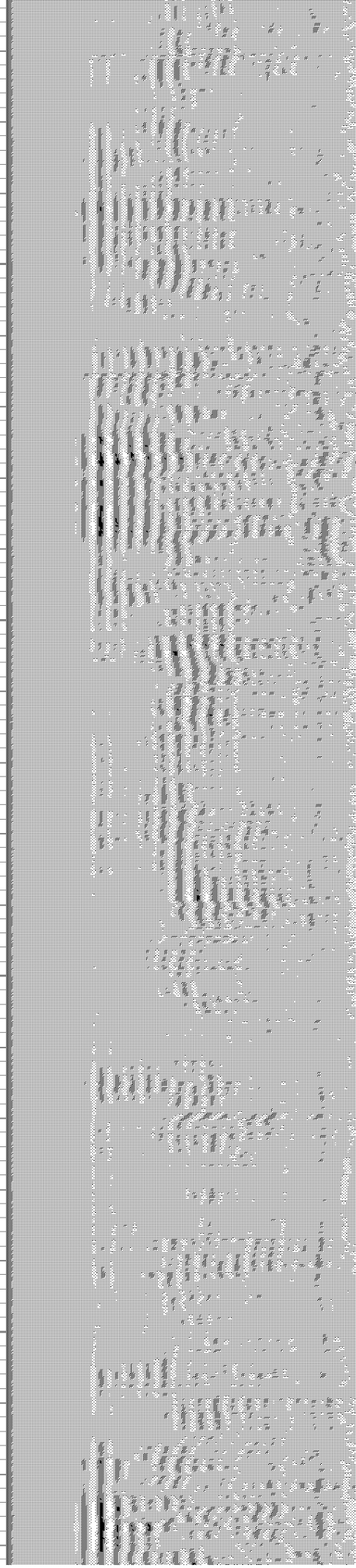
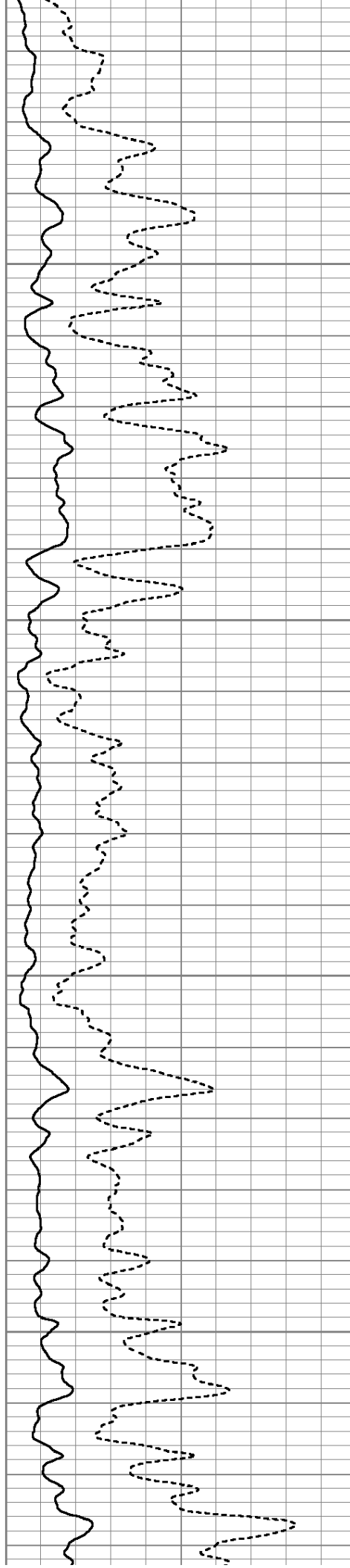


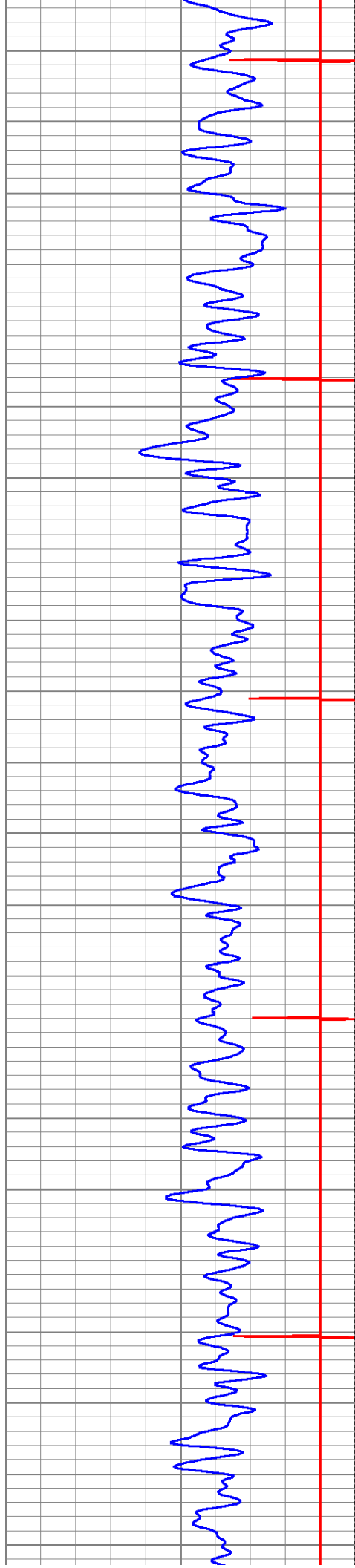
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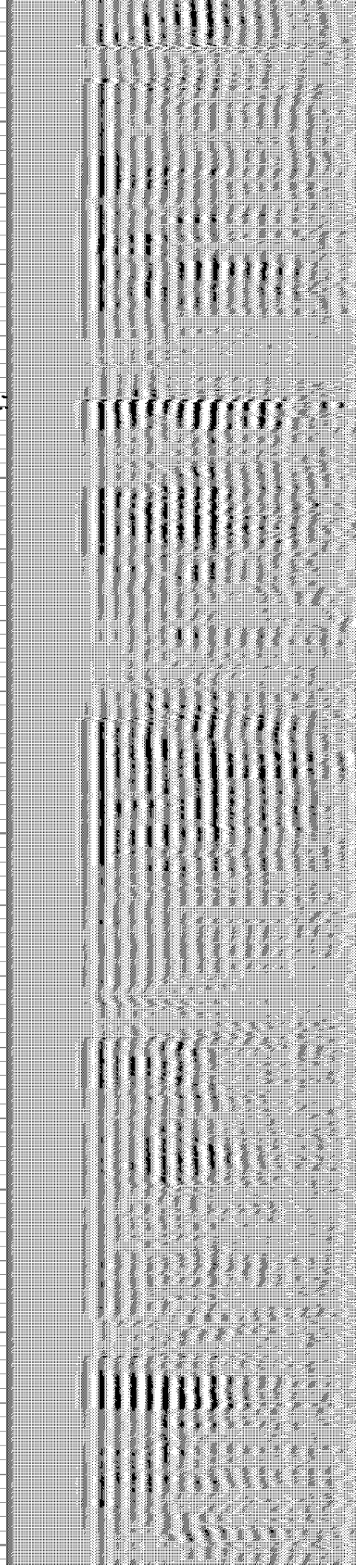
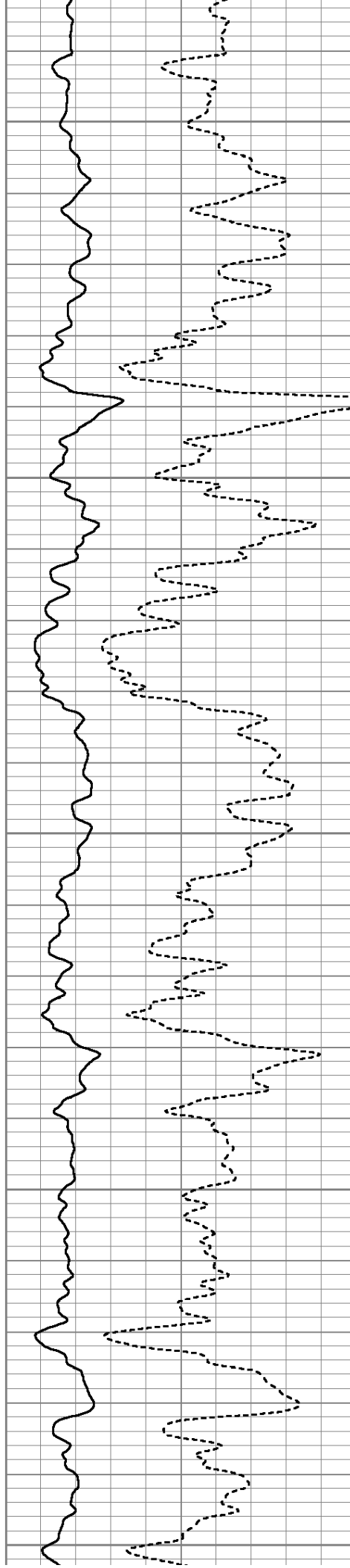
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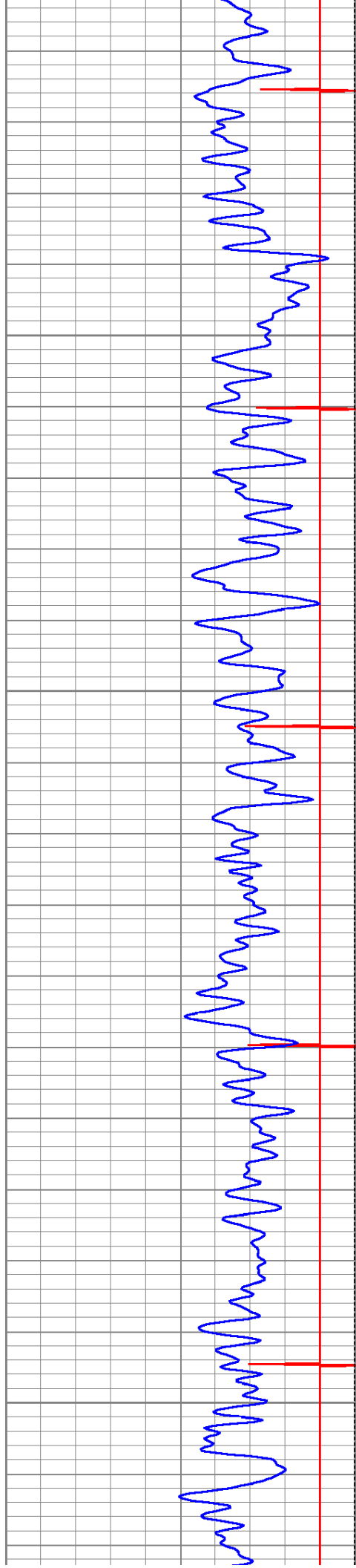
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6200

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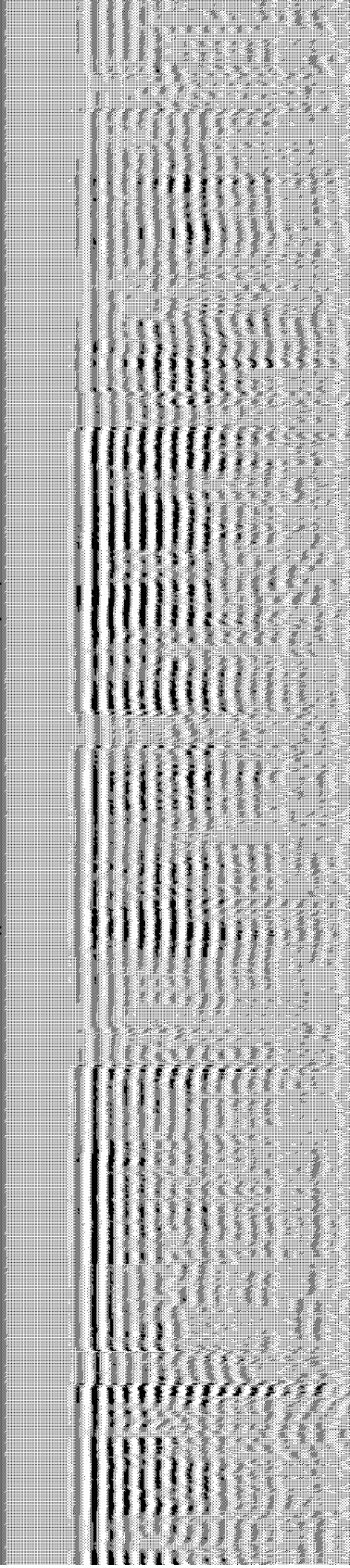
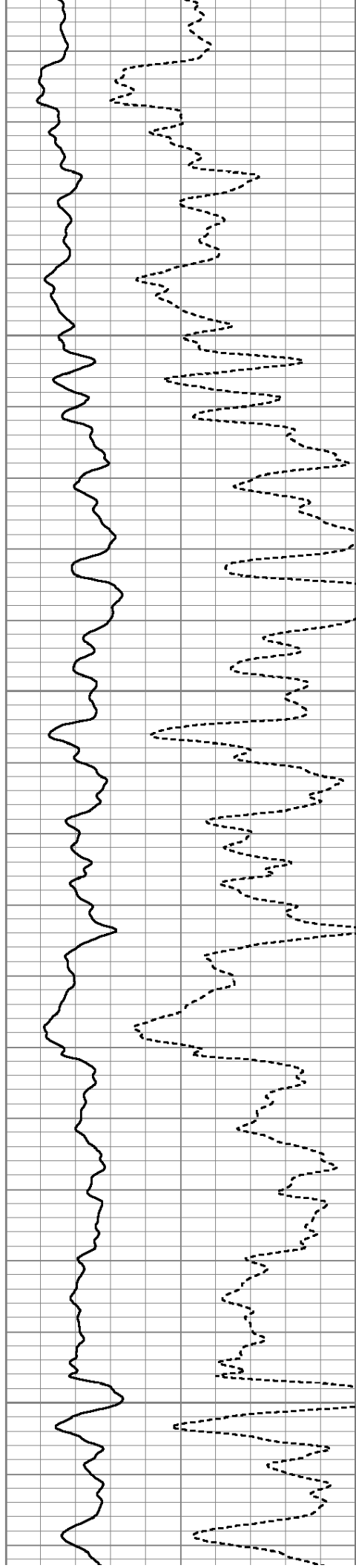


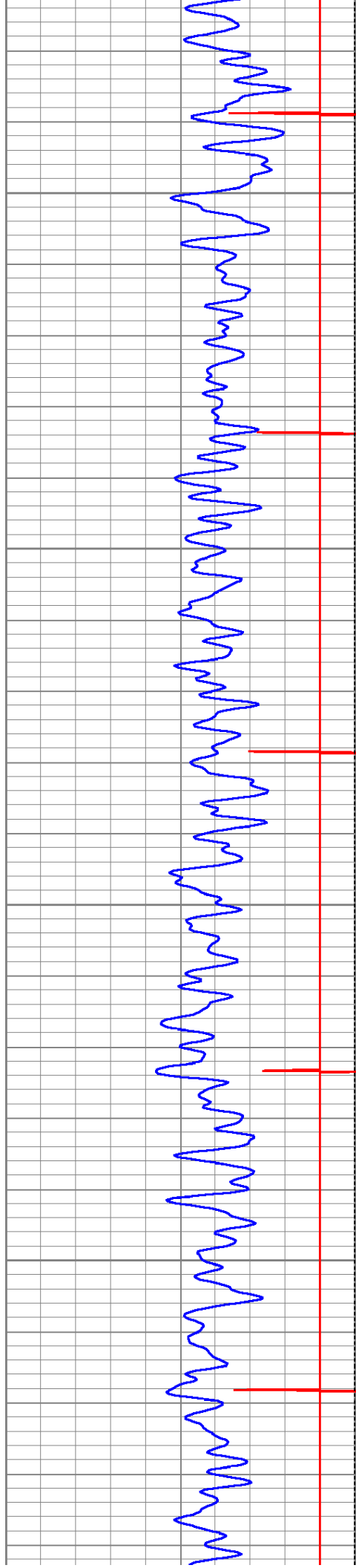
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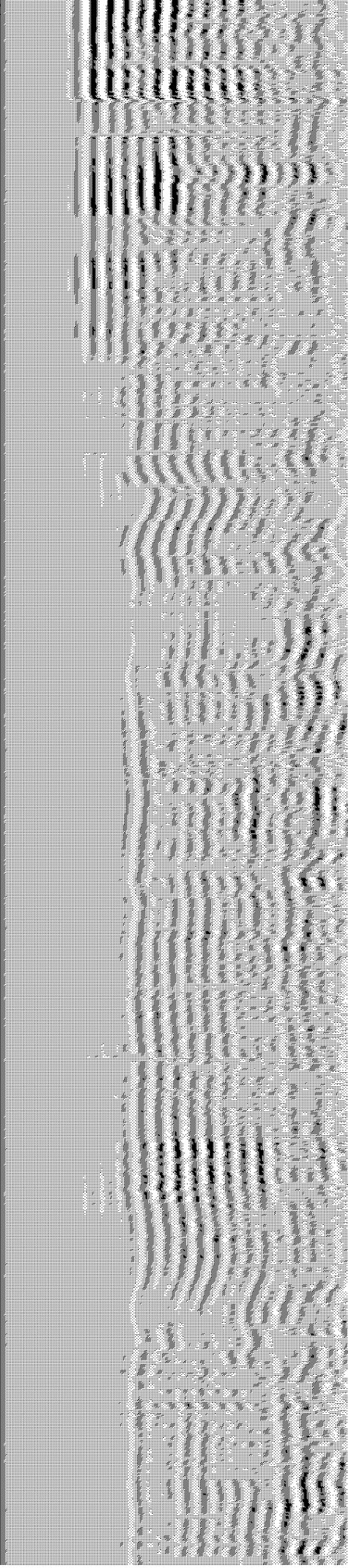
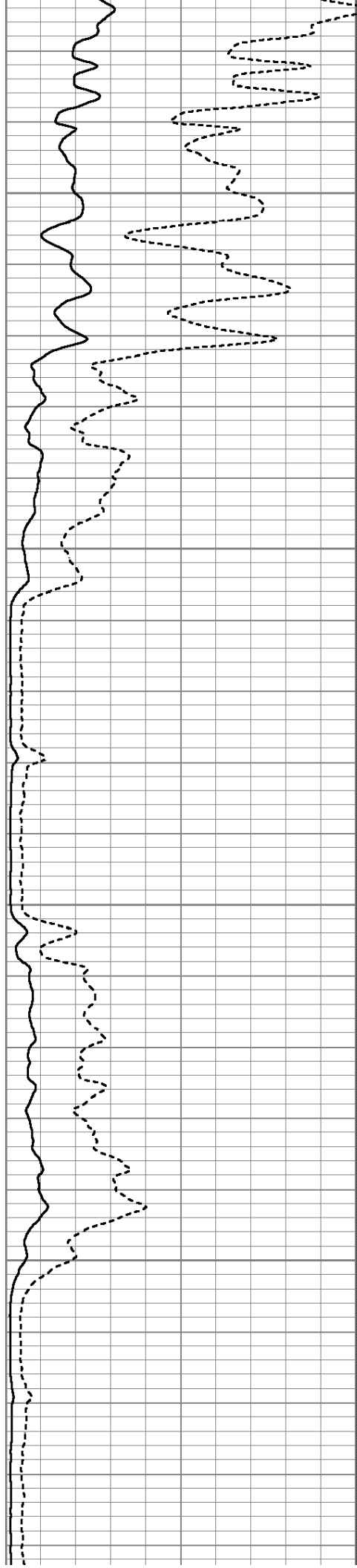


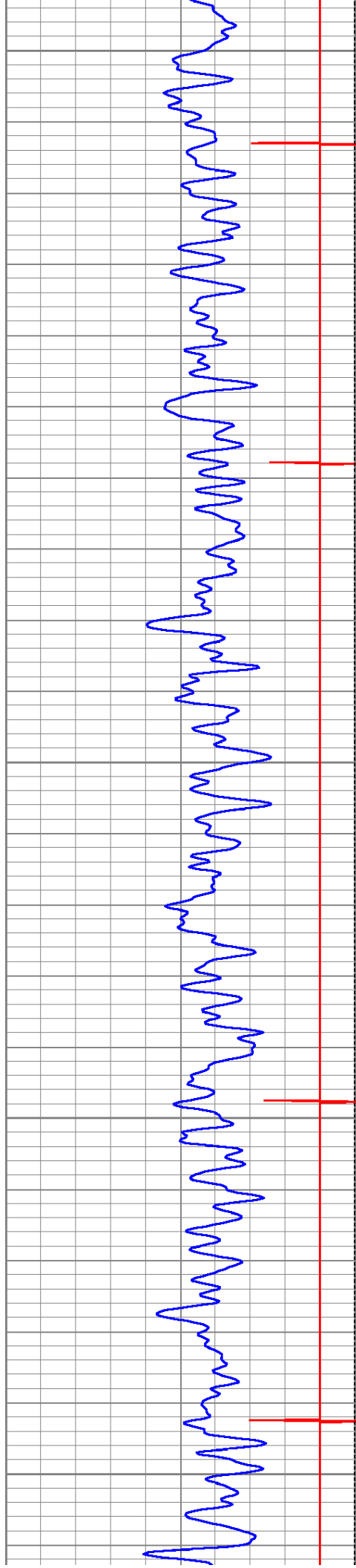
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