



VDL CCL GAMMA-RAY CEMENT BOND LOG

Pioneer Energy Services

Company ENCANA OIL & GAS (USA) INC
Well NORTH RINN 2-4-9
Field WATTENBERG
County WELD State COLORADO

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County WELD
State COLORADO

Location: SHL 1180' FSL & 1133' FWL SWSW
BHL 2575' FSL & 1400' FWL NESW
SEC 9 TWP 2N RGE 68W
Permanent Datum GL Elevation 4866'
Log Measured From KB
Drilling Measured From KB
Other Services
Elevation
K.B. 4879'
D.F. 4879'
G.L. 4866'

Date

Run Number 8/8/13

Depth Driller ONE

Depth Logger 8198'

Bottom Logged Interval 8166'

Top Log Interval 8148'

Open Hole Size 50'

Type Fluid 7 7/8" WATER

Density / Viscosity NA

Max. Recorded Temp. 224 DEG. F

Estimated Cement Top 3180'

Time Well Ready NA

Time Logger on Bottom NA

Equipment Number 1

Location FT MORGAN

Recorded By TODD YOUNG

Witnessed By TOM MAJORS

Borehole Record
Run Number Bit From To Size Weight From To

Casing Record
Surface String Size Wgt/Ft Top Bottom

Prot. String 4.5" 11.6# SURFACE TD

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.

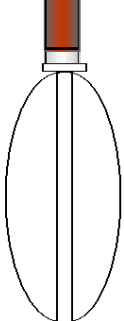

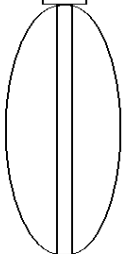
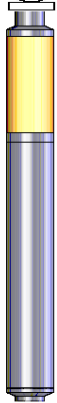
Comments

SO # 2-204236

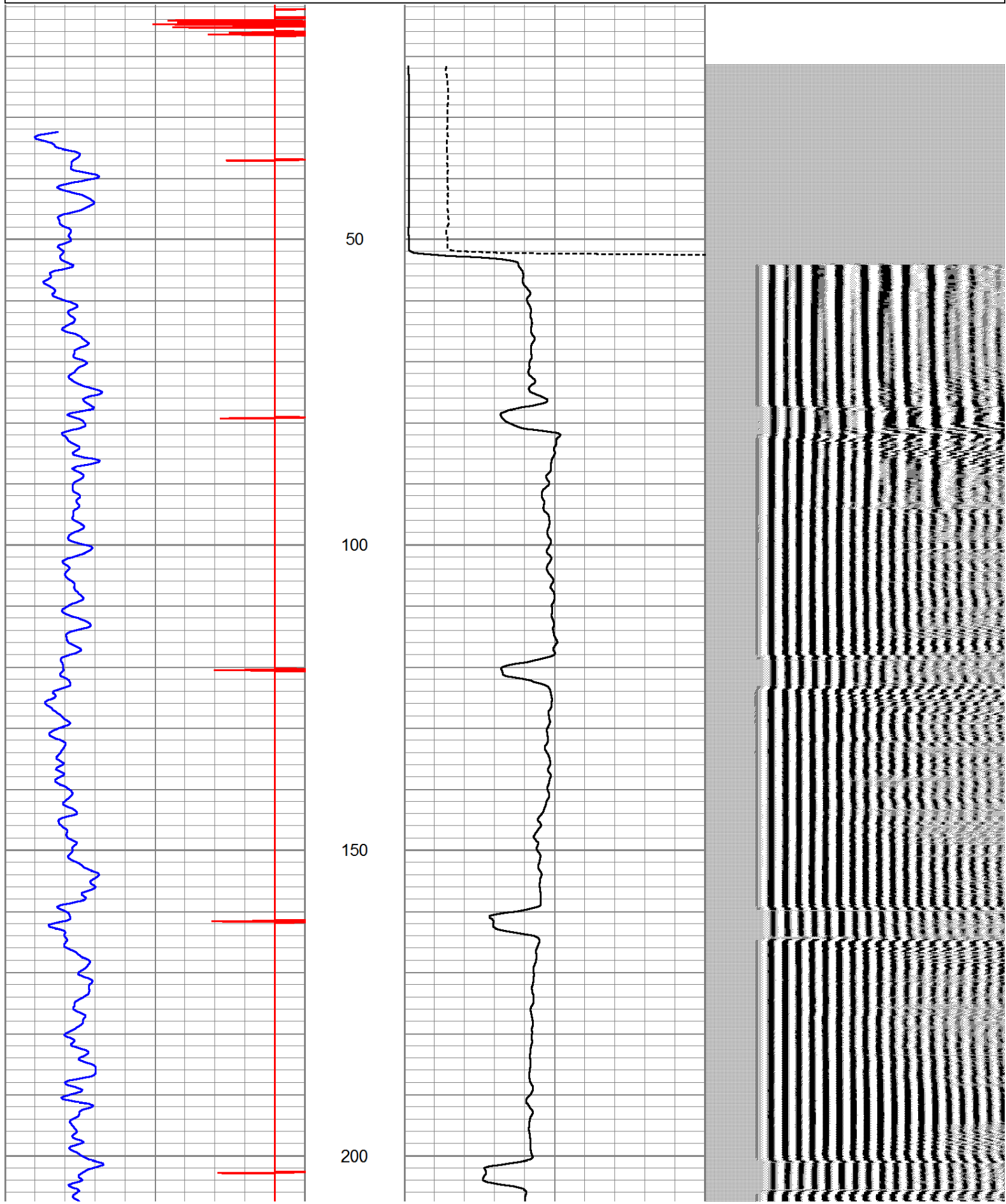
LOG CORRELATED TO PES OPEN HOLE LOG
DATED 7/31/13

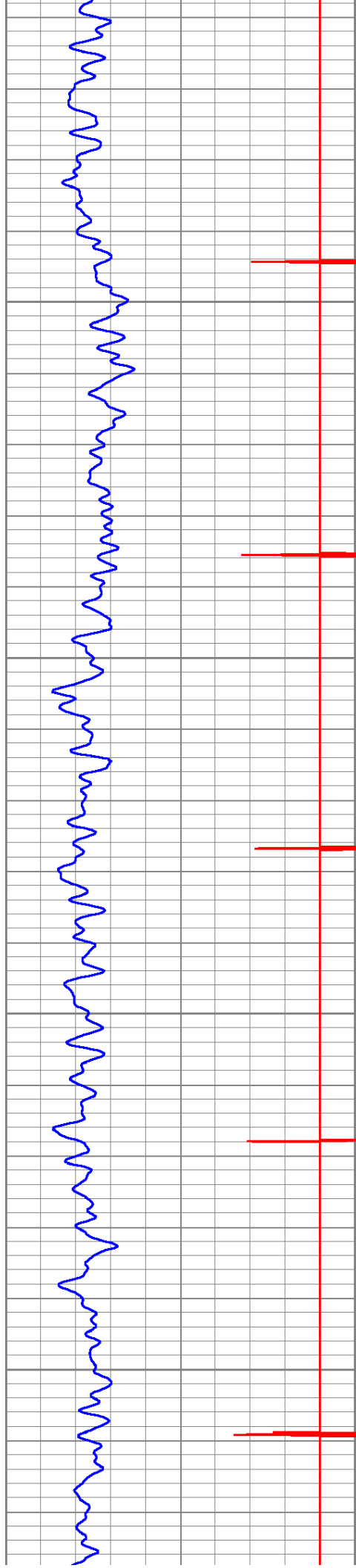
THANK YOU FOR USING
PIONEER ENERGY SERVICES

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.98		CCL-titan01 (01t)	1.92	2.75	

				SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3	11.58						
WVF5	10.58			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) PROBE_GCT	4.33	2.75	100.00
Dataset: north rinn 2-4-9.db: field/well/run1/pass4 Total Length: 21.00 ft Total Weight: 246.50 lb O.D. 3.25 in							

9	Collar Locator	-1	0	Amplified Amplitude (mV)	10	200	Variable Density	1200
0	Gamma Ray (GAPI)	300	0	Amplitude (mV)	100			



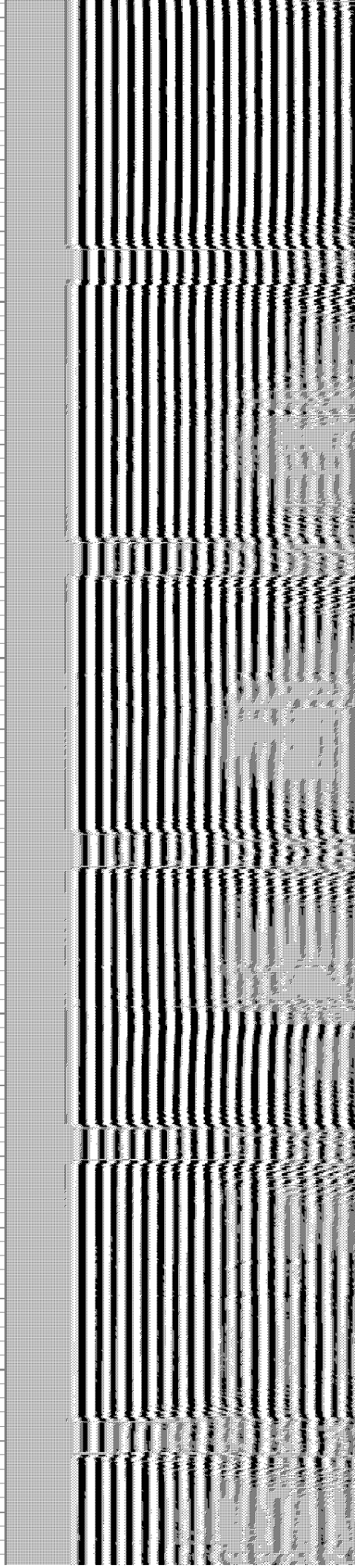
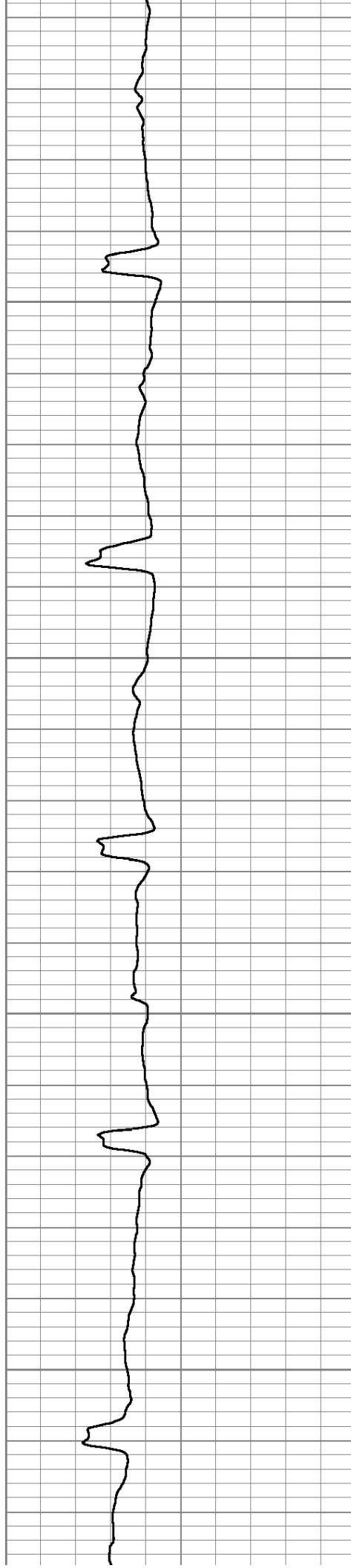


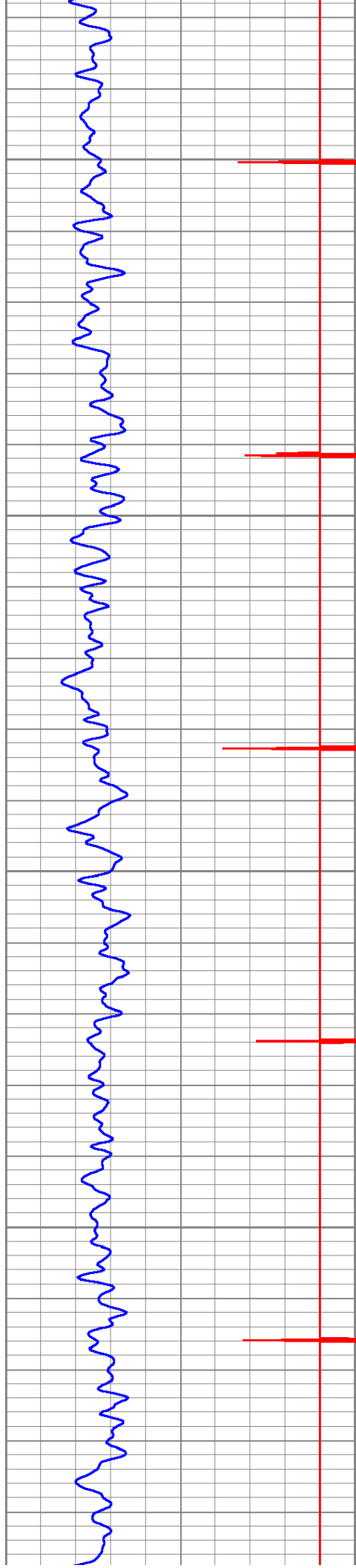
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300

350

400



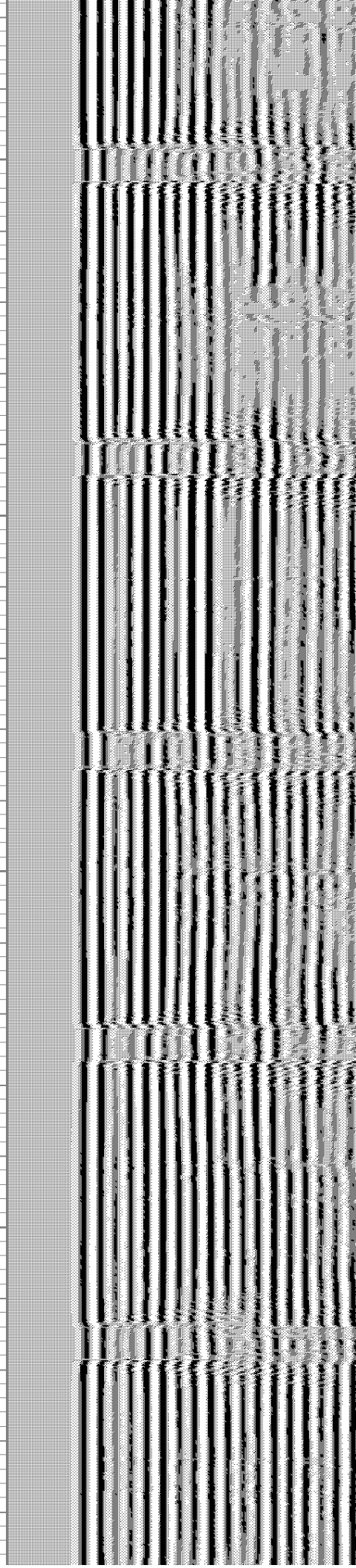
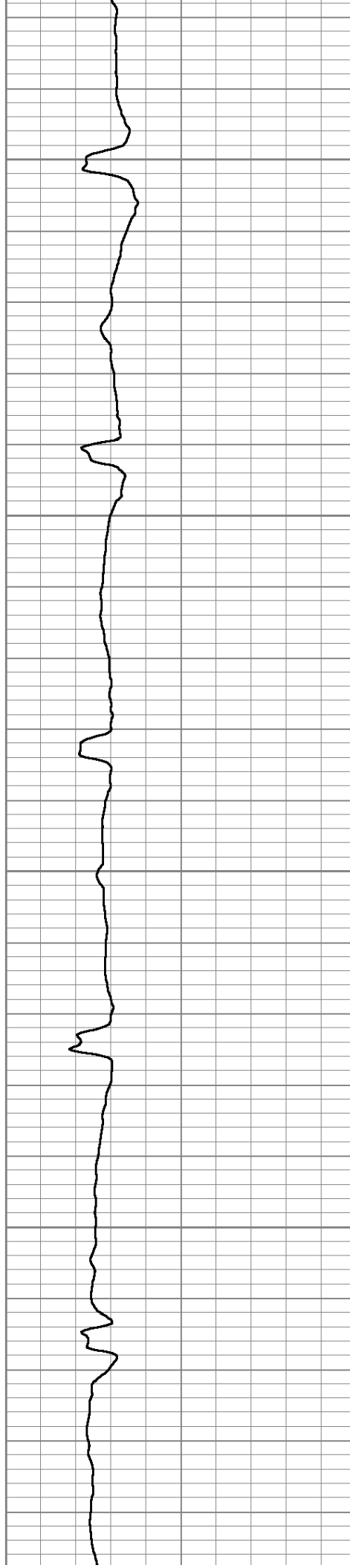


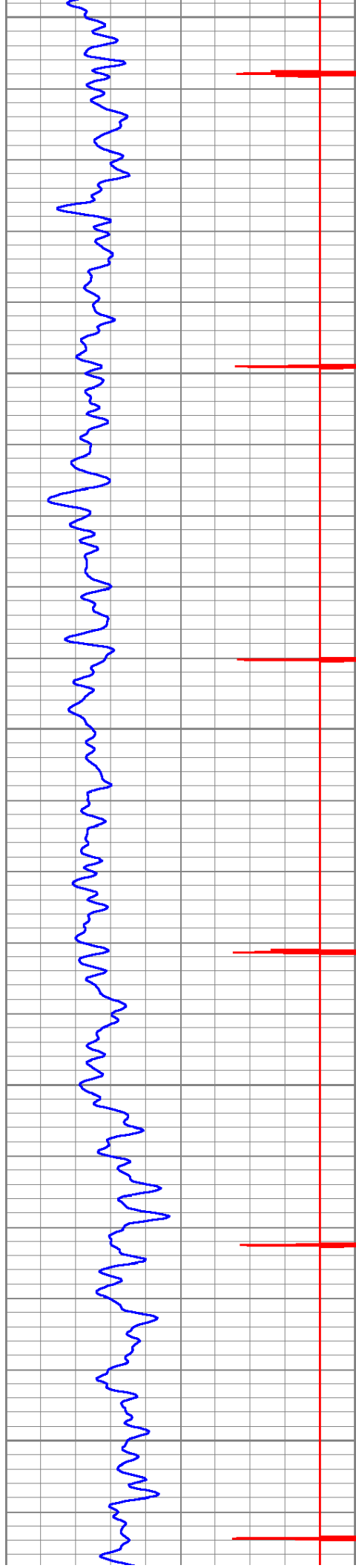
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500

550

600





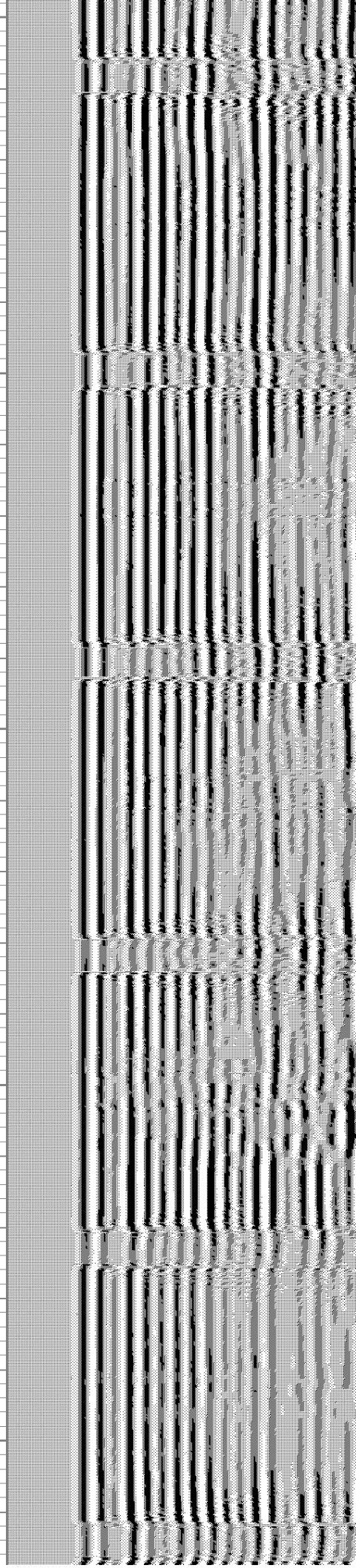
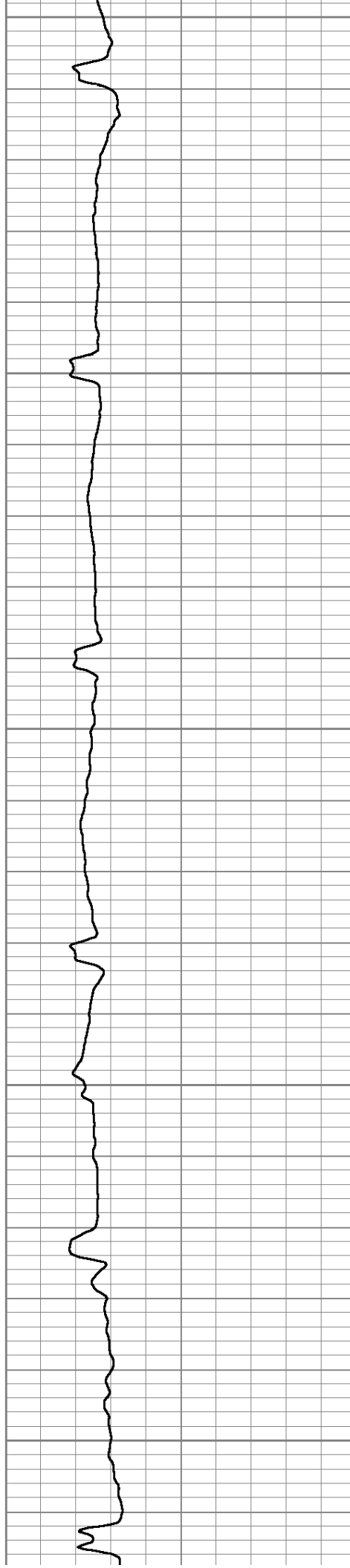
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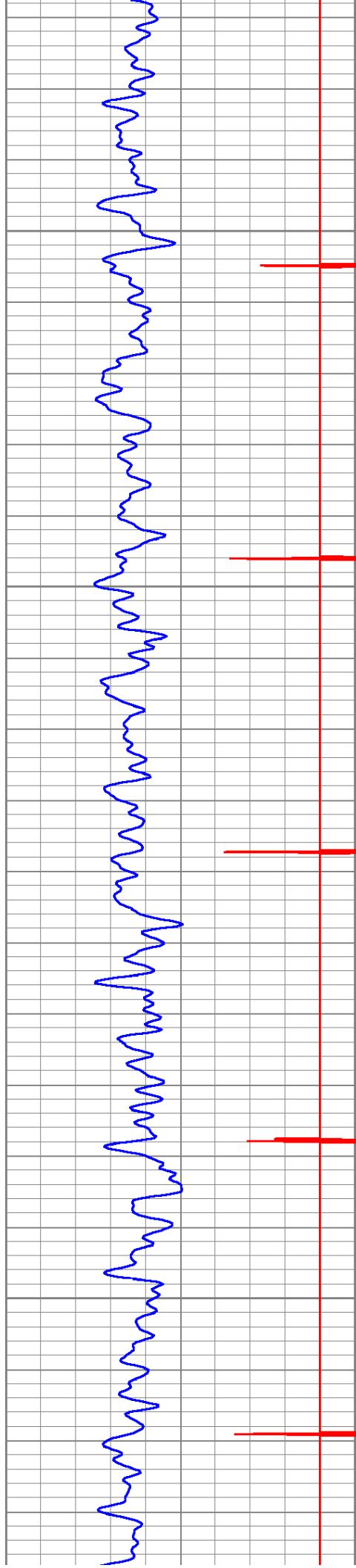
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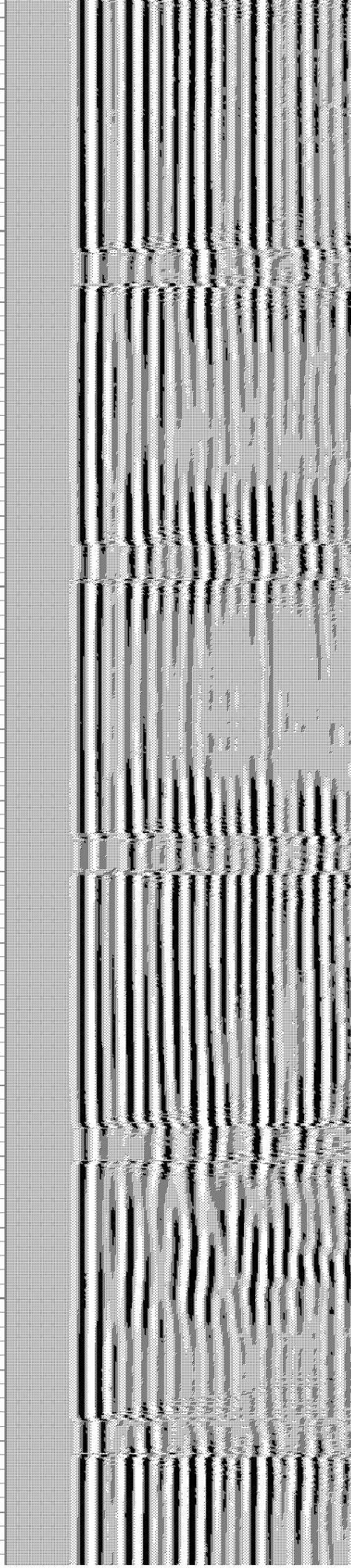
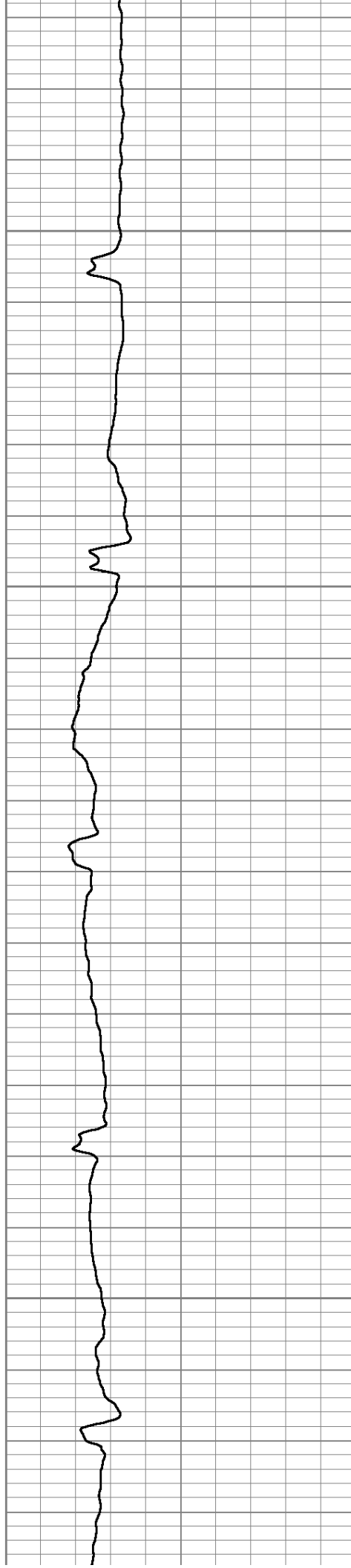


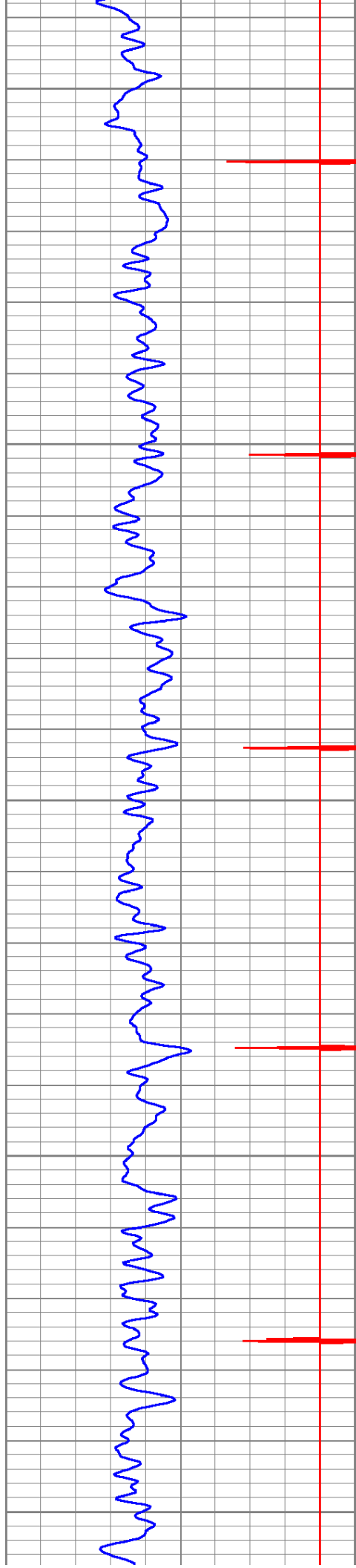
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950

1000

1050





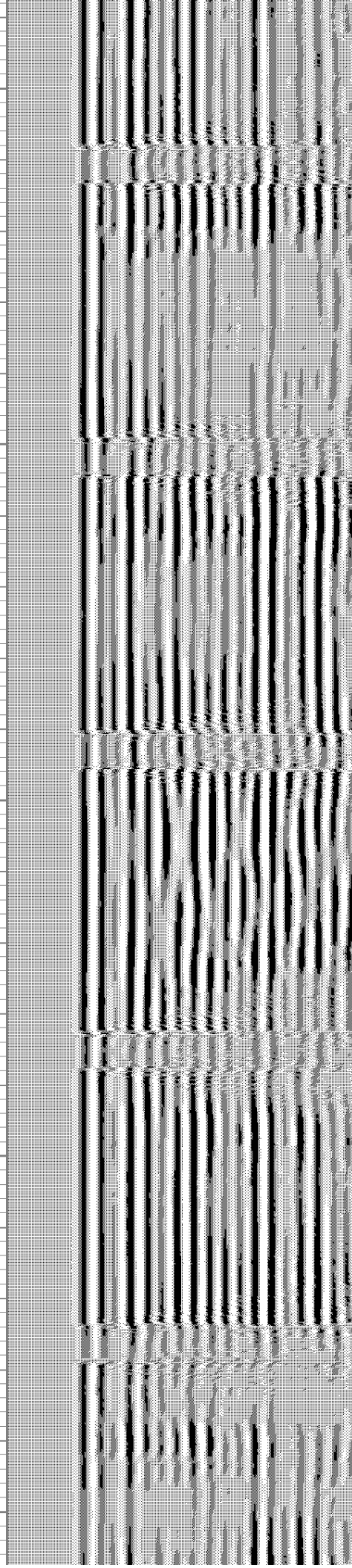
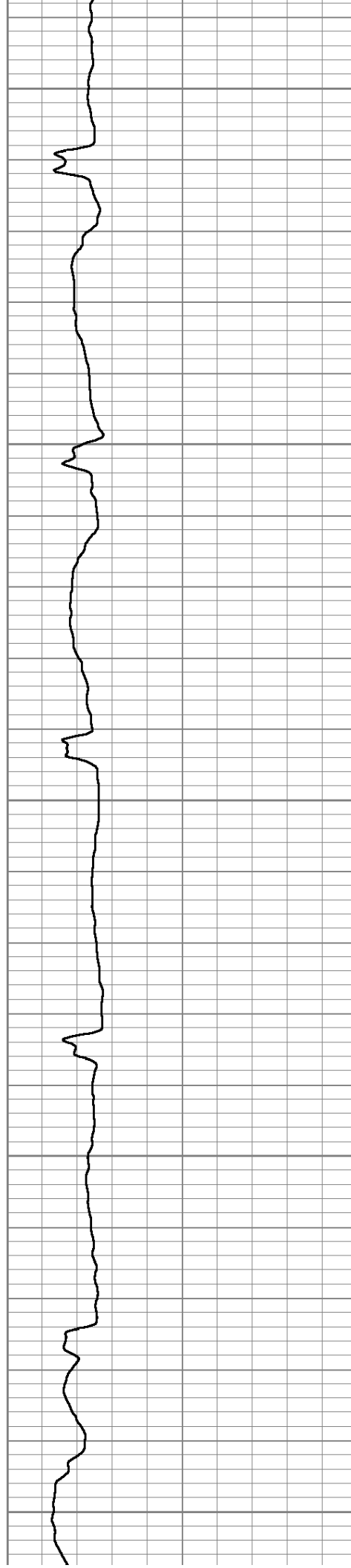
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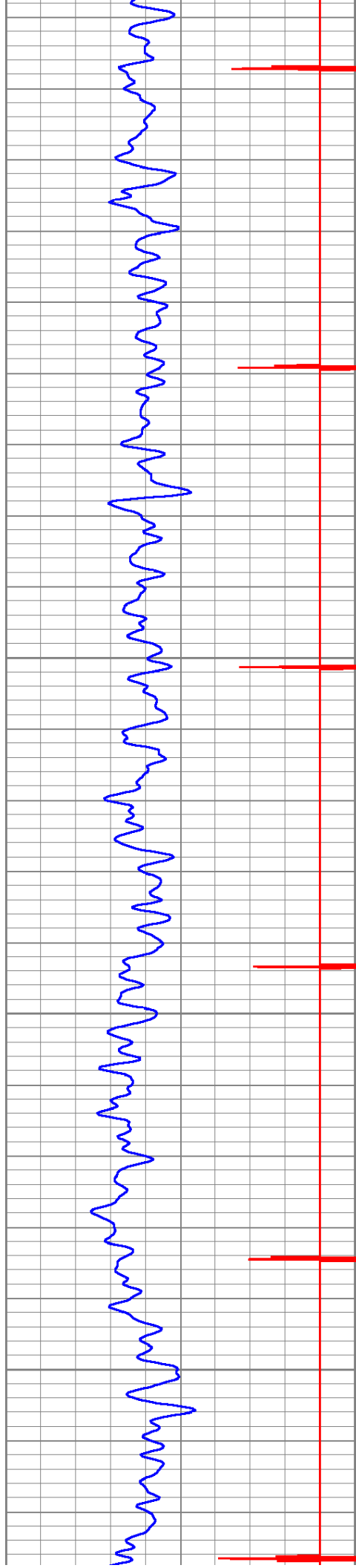
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1300



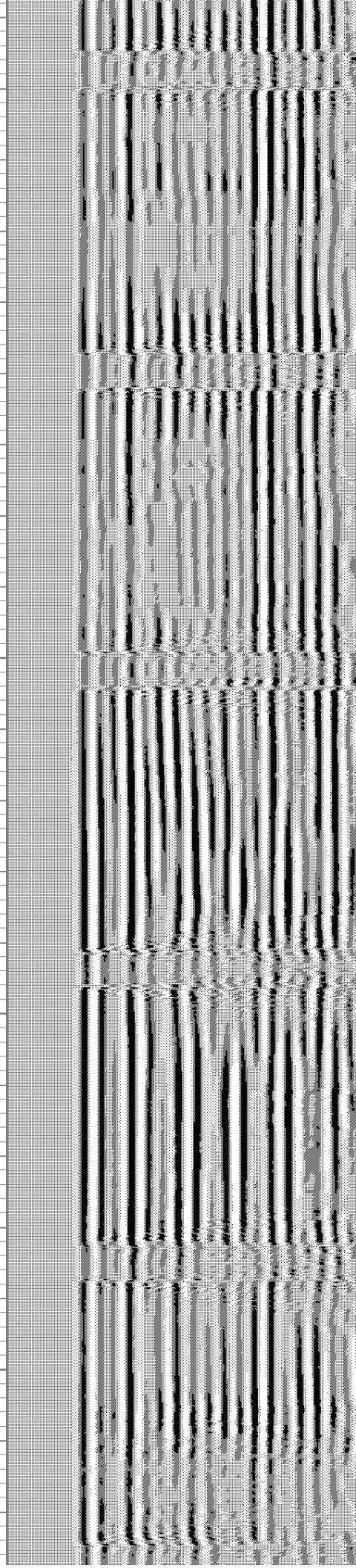
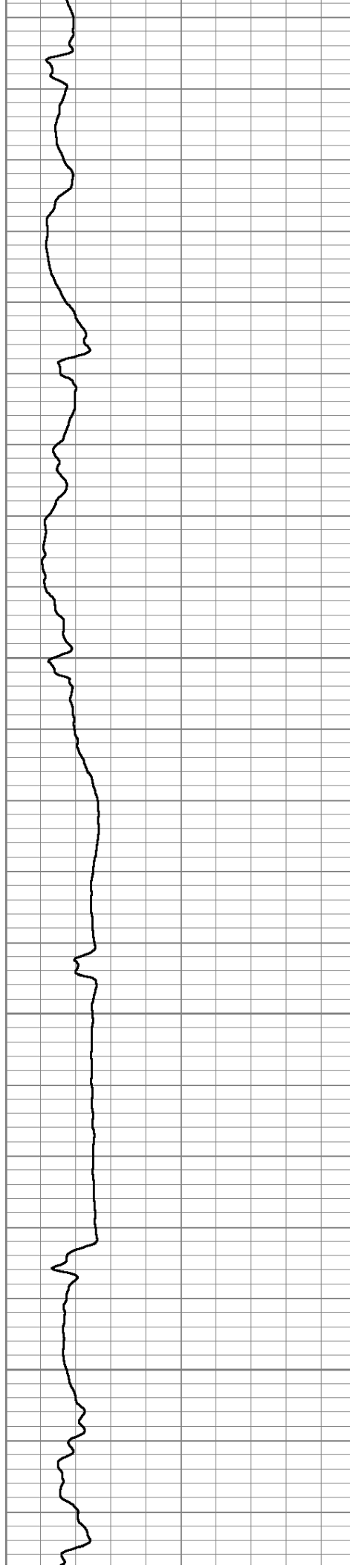


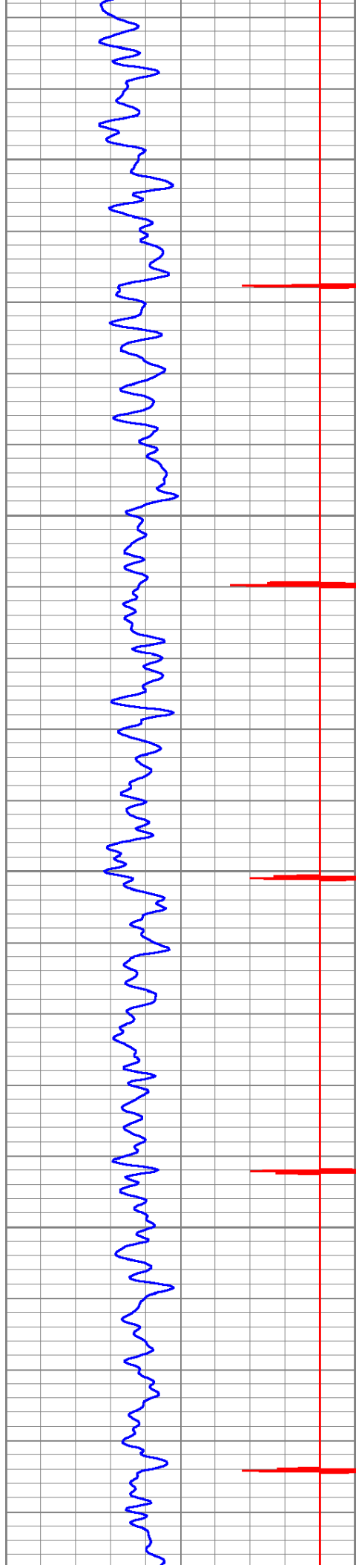
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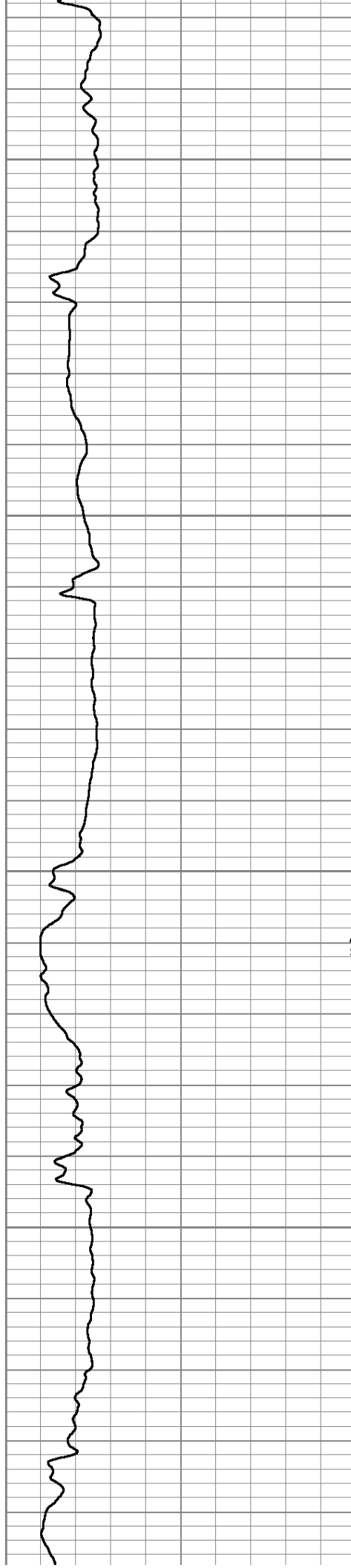


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1600

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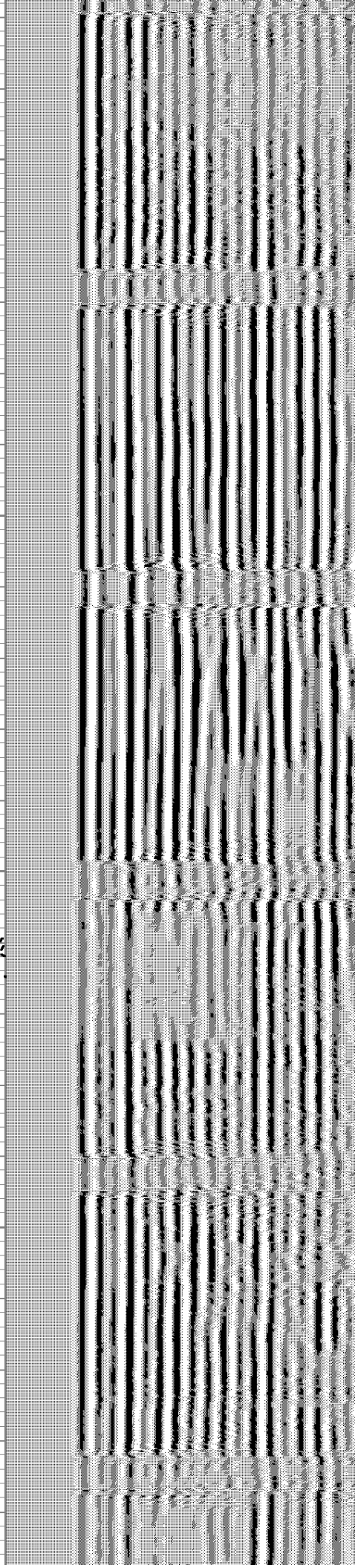


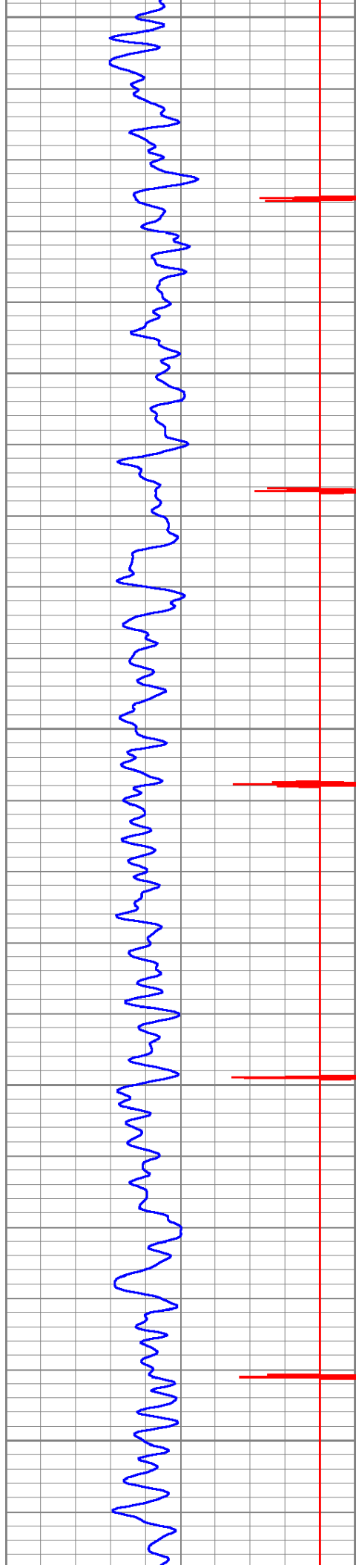
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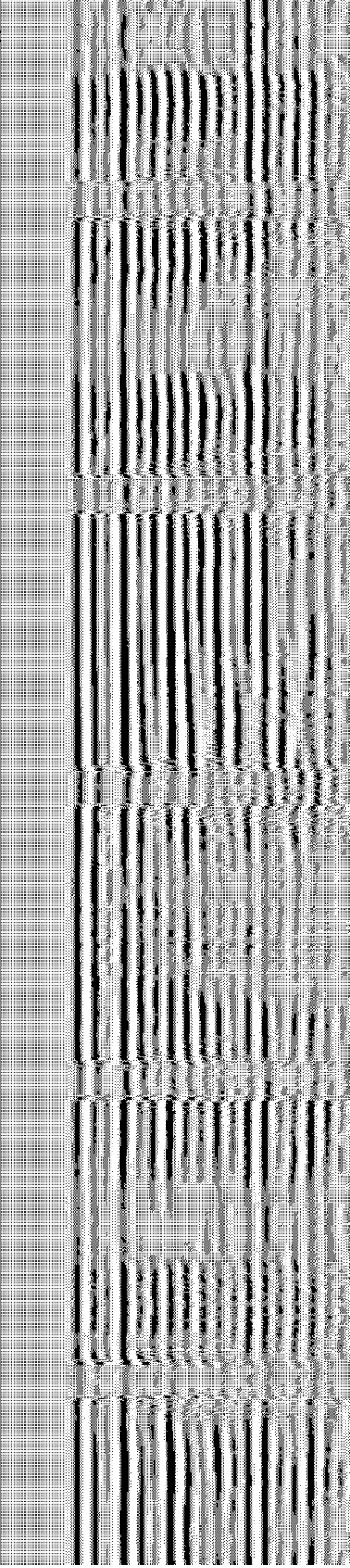
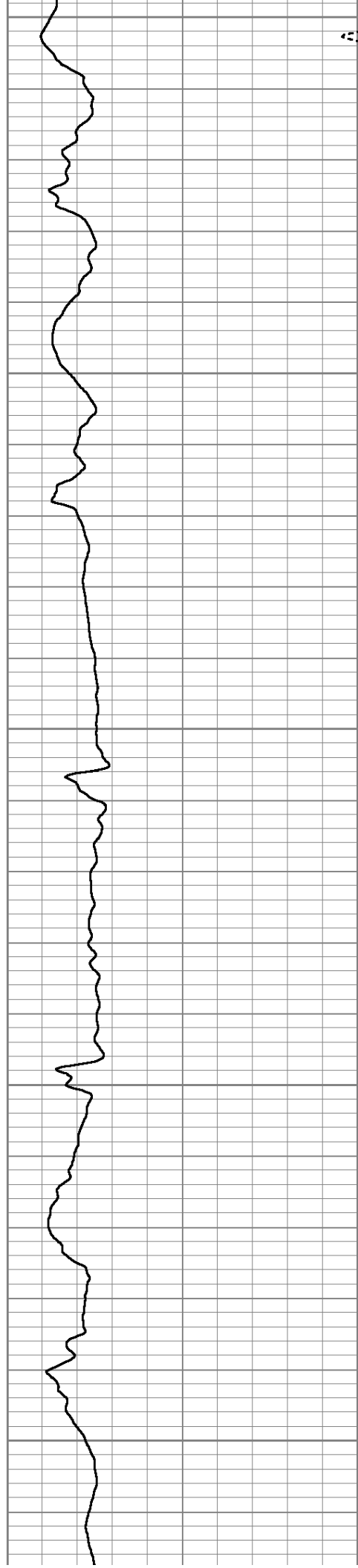
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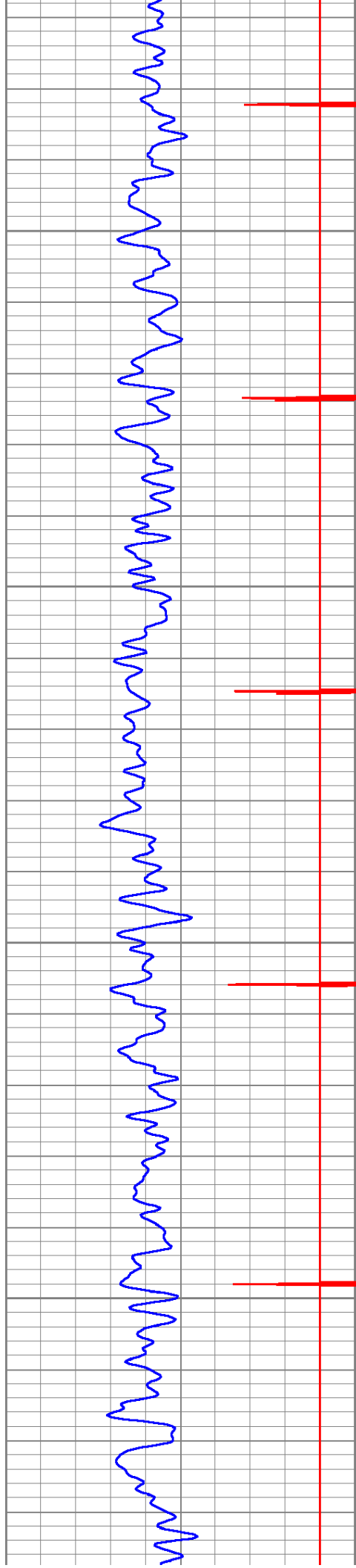
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1800
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1900
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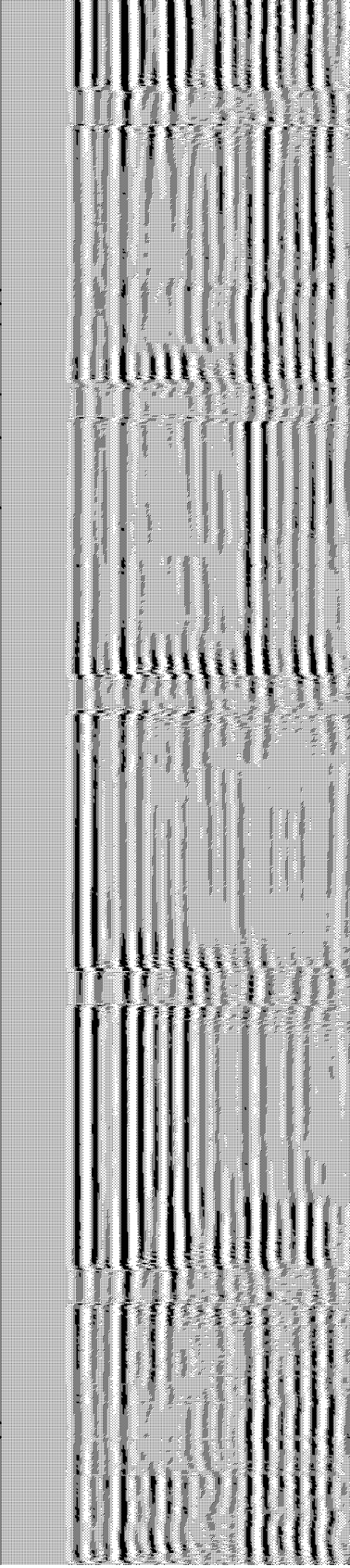
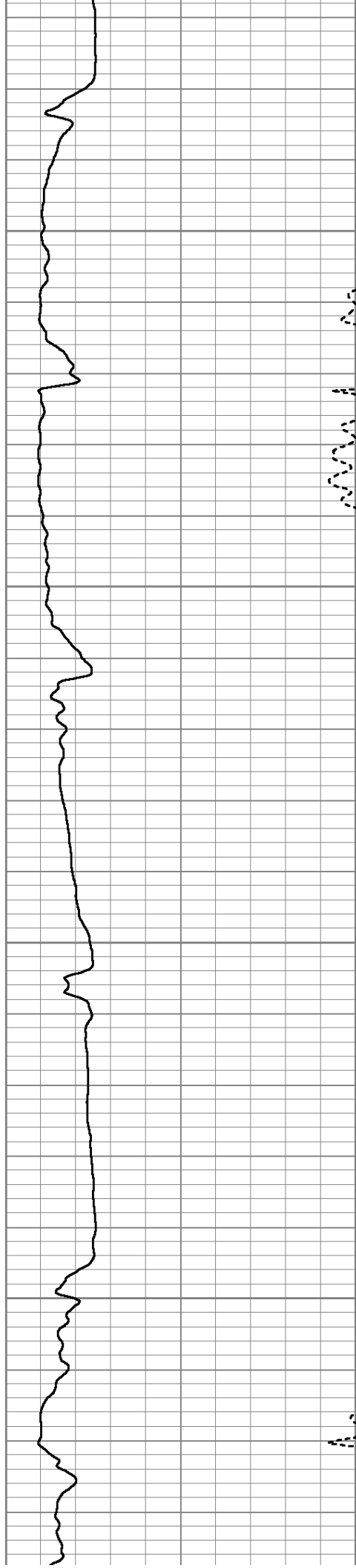


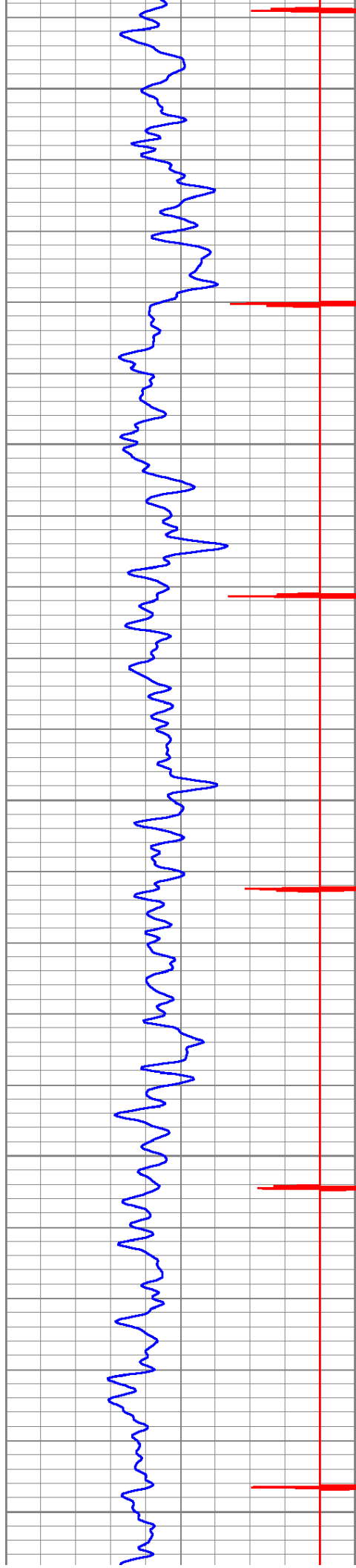
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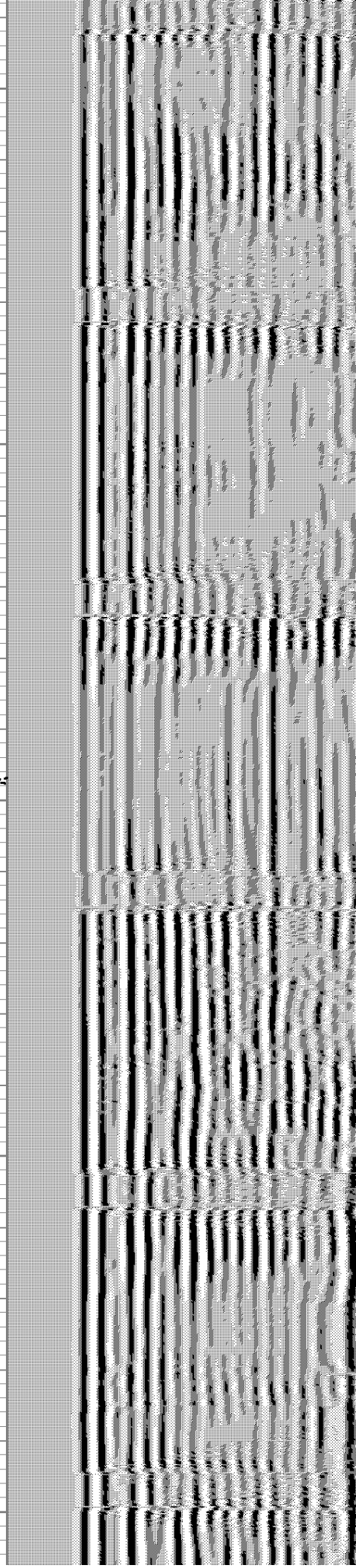
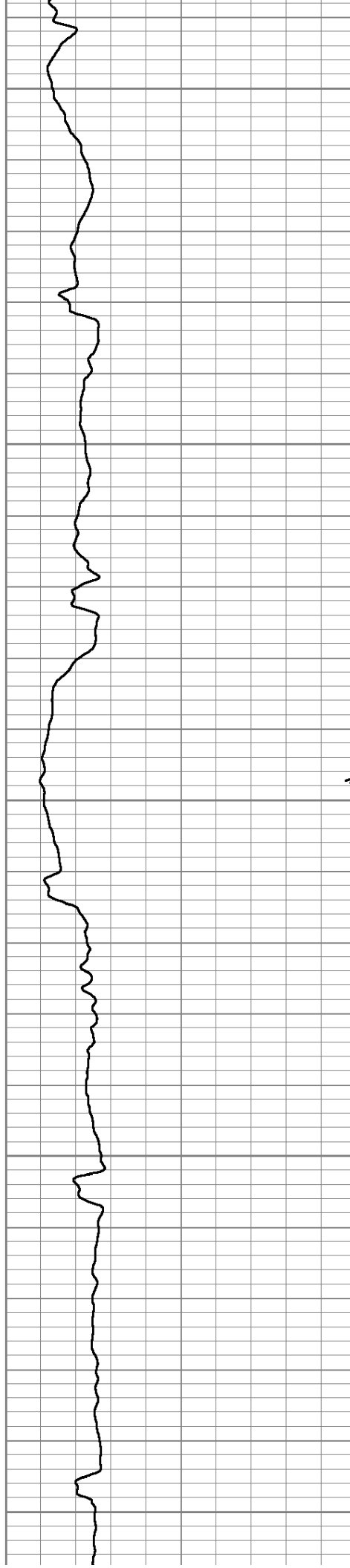
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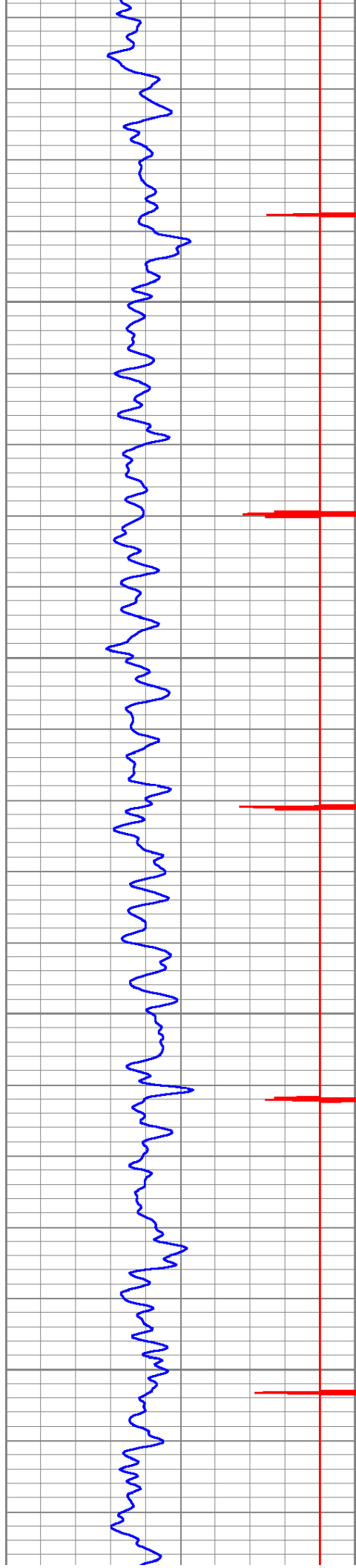
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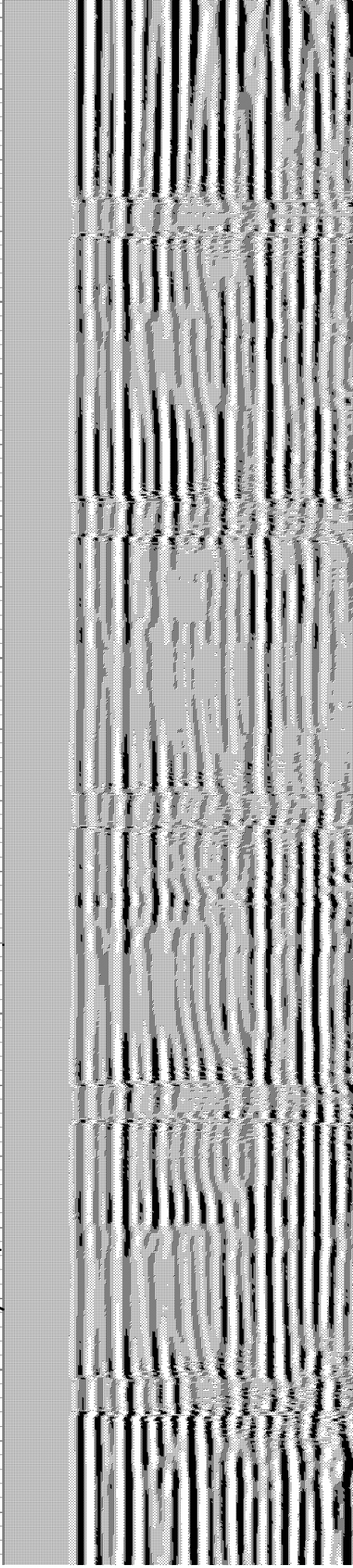
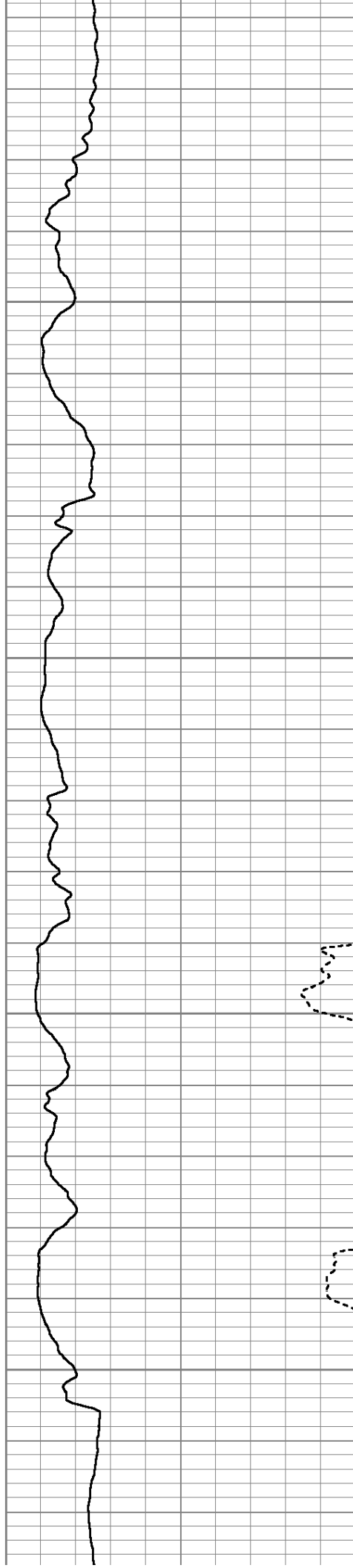


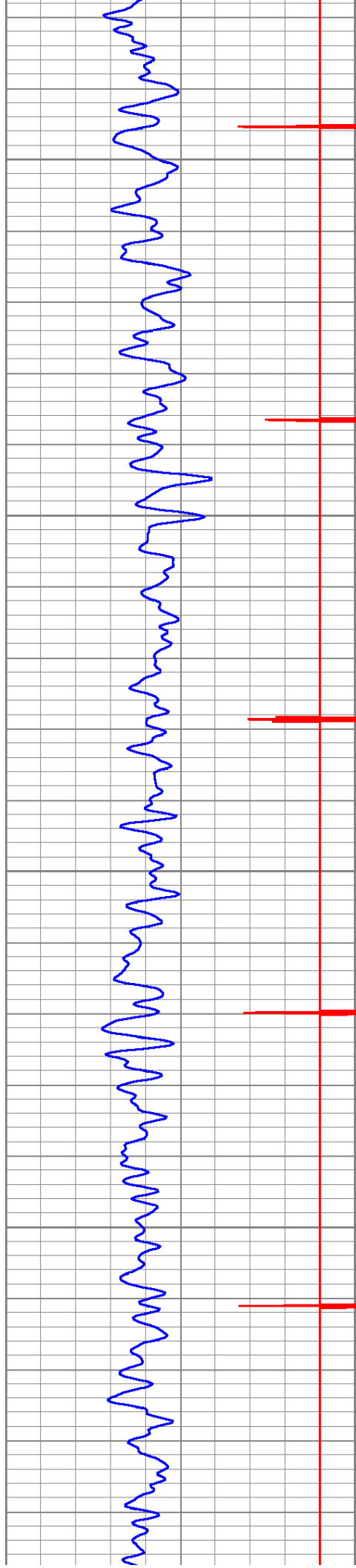
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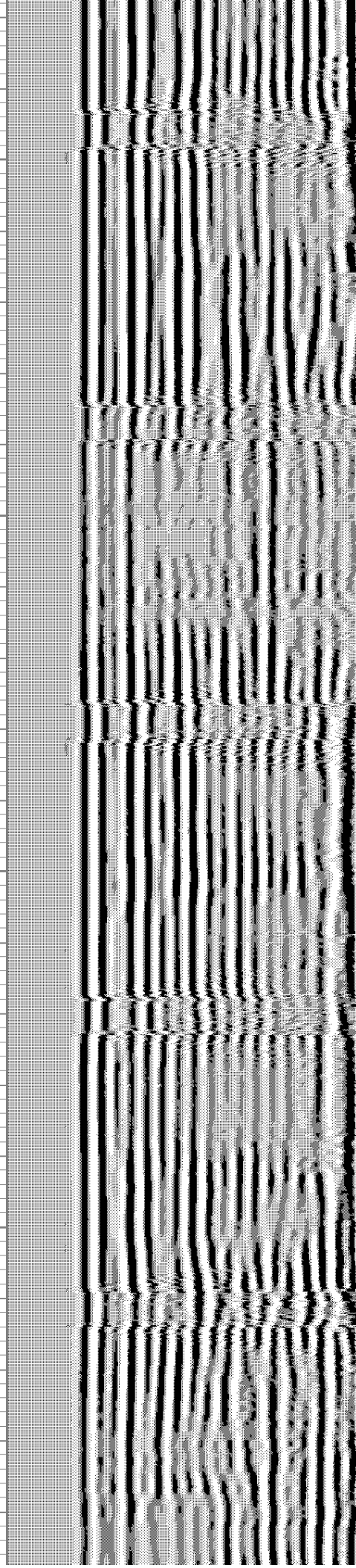
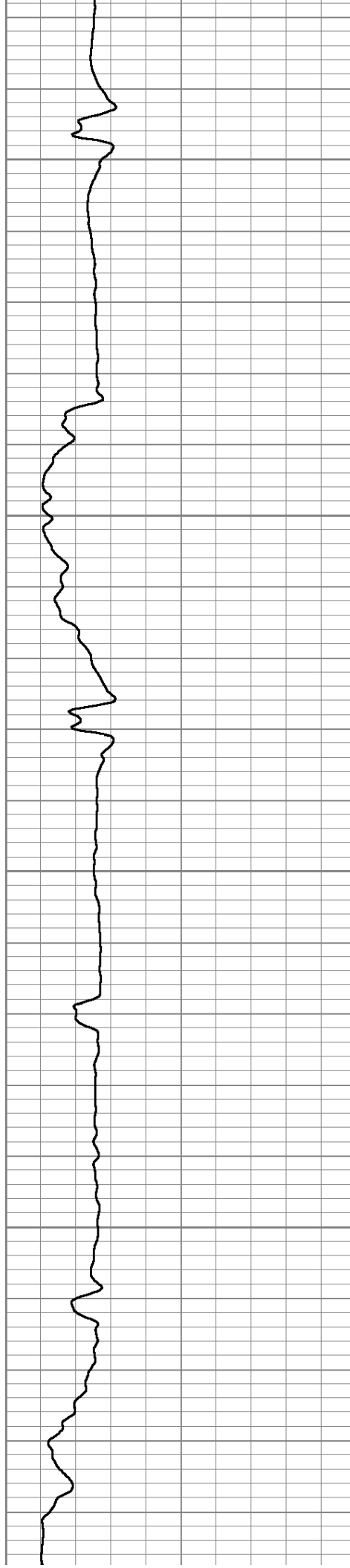


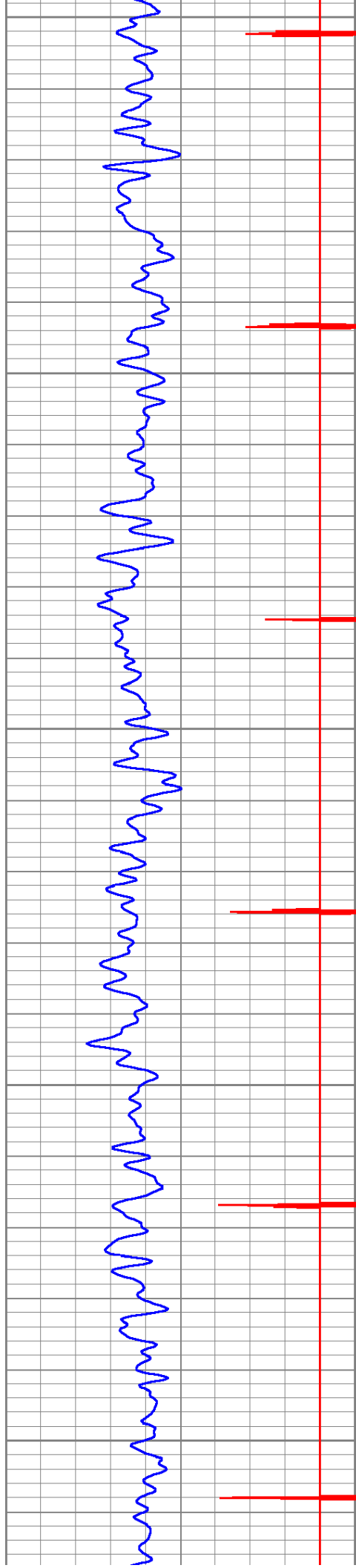
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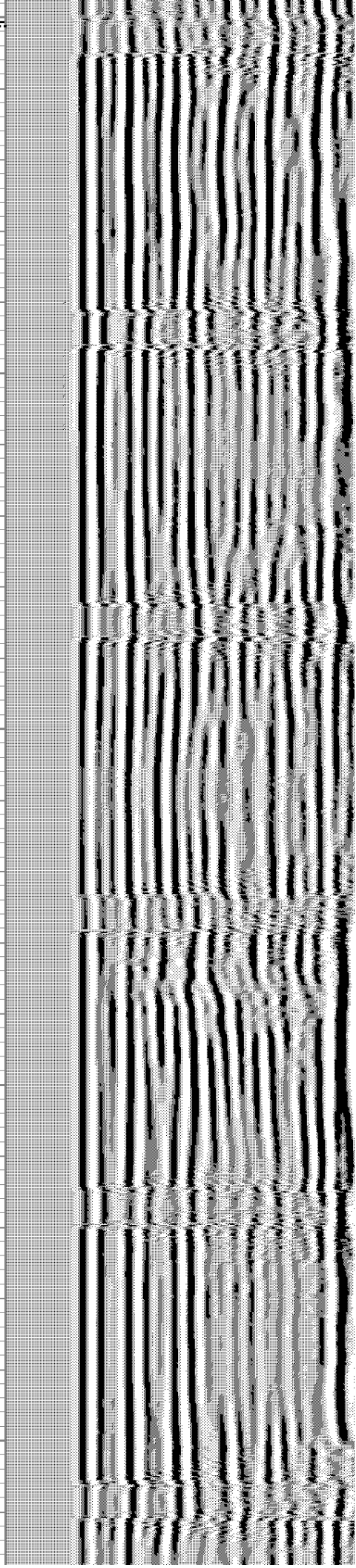
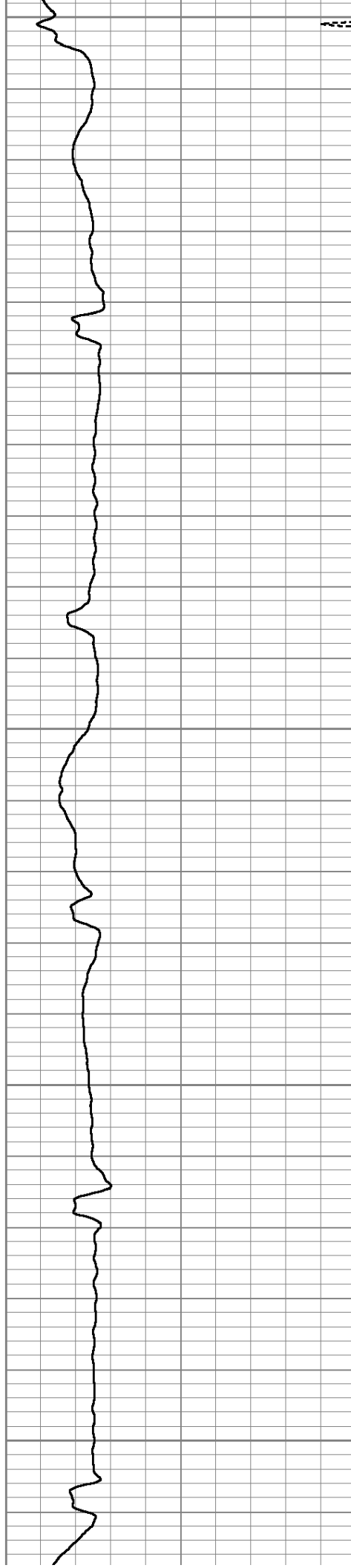
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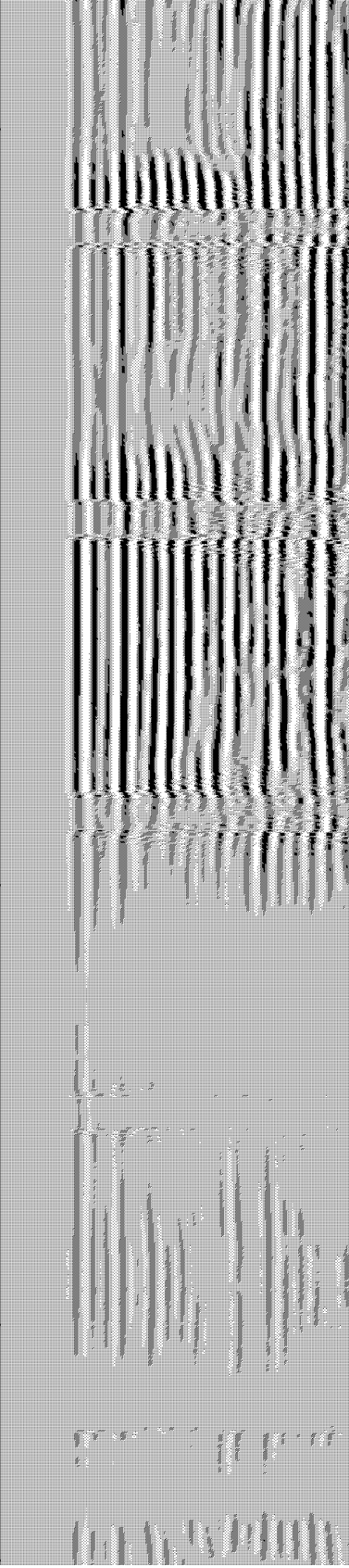
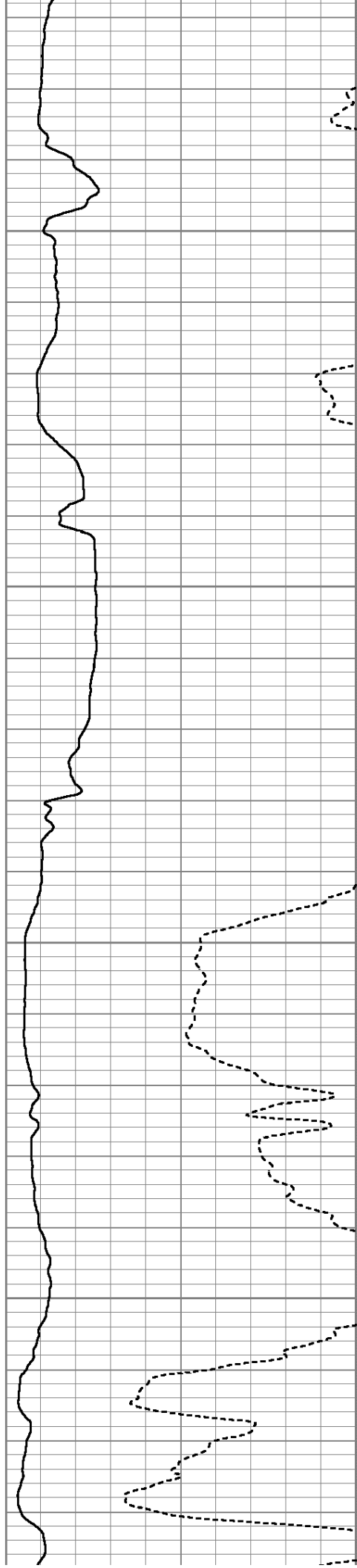


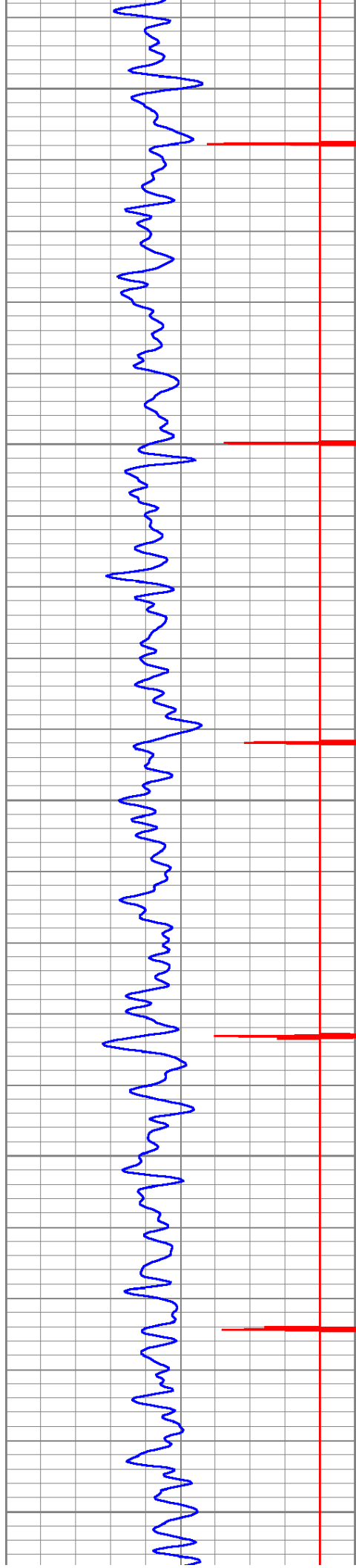
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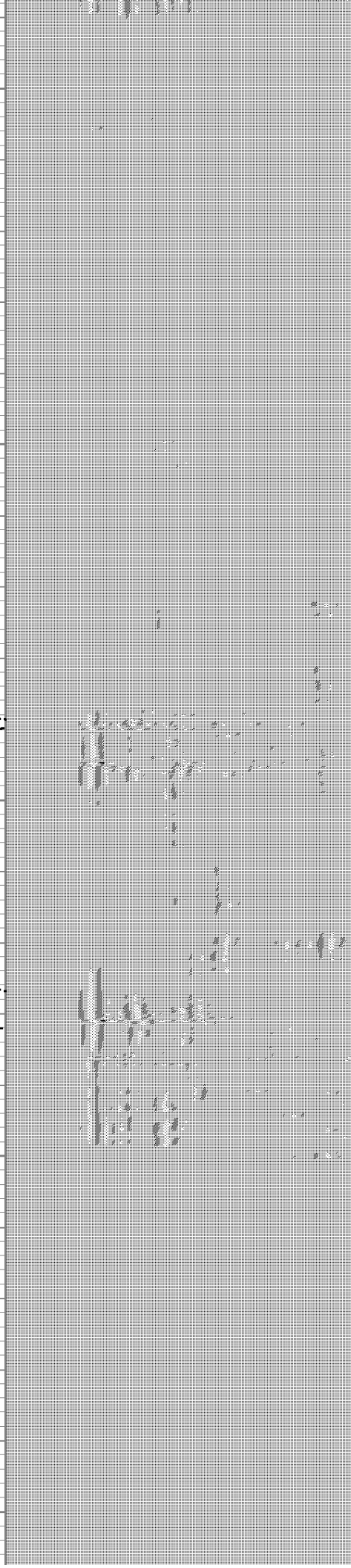
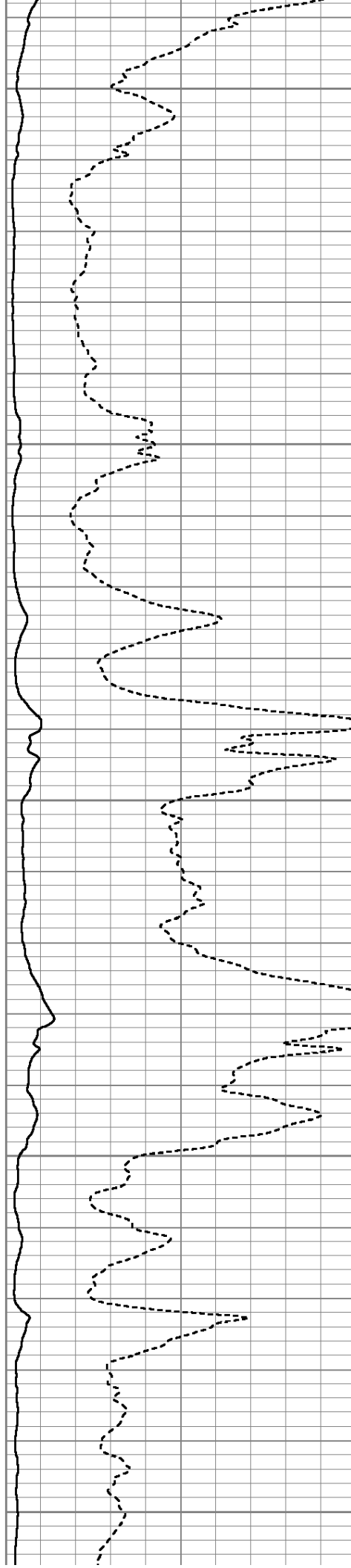
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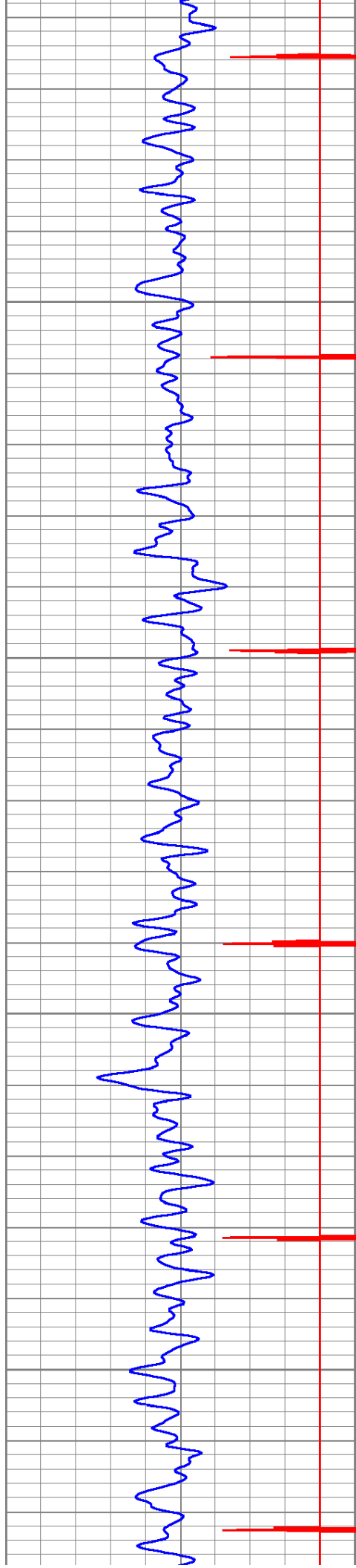
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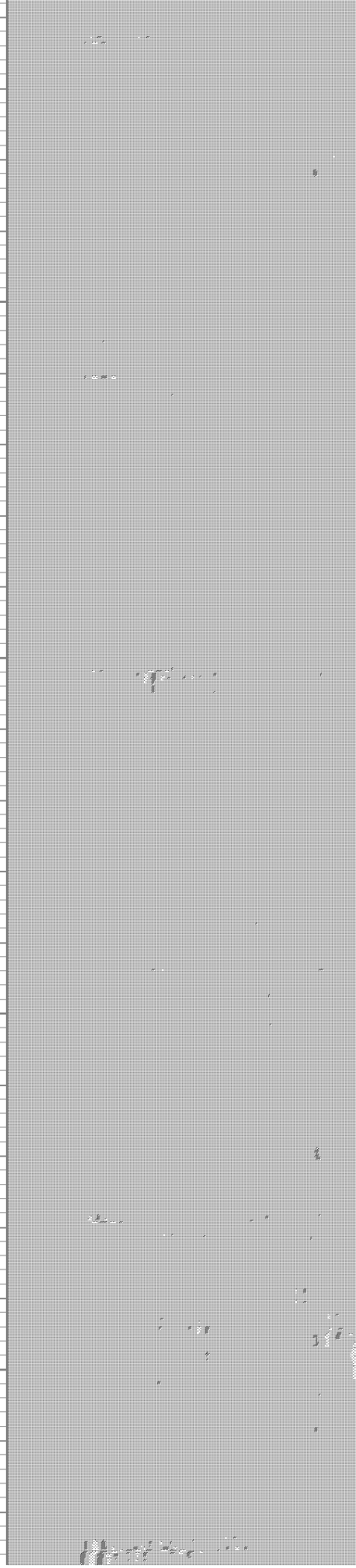
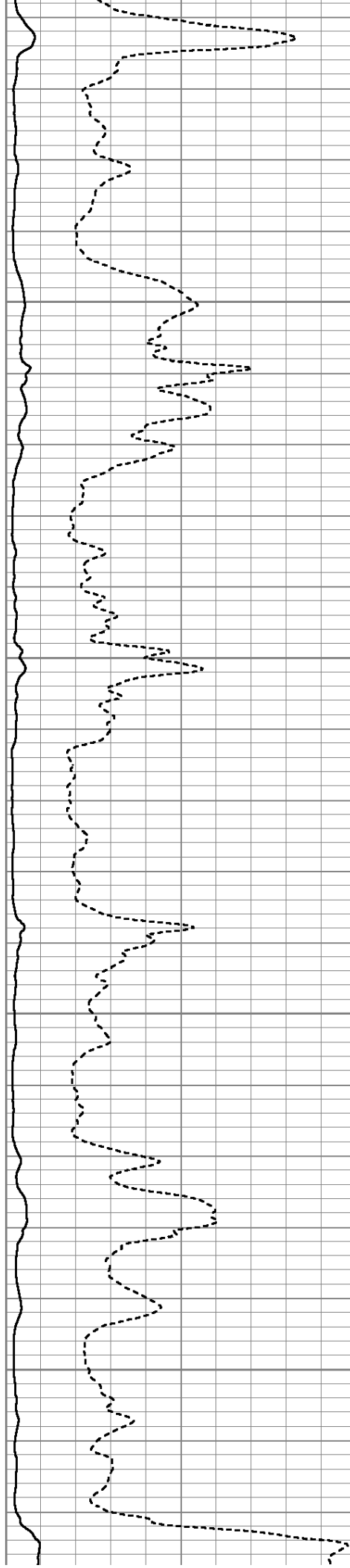


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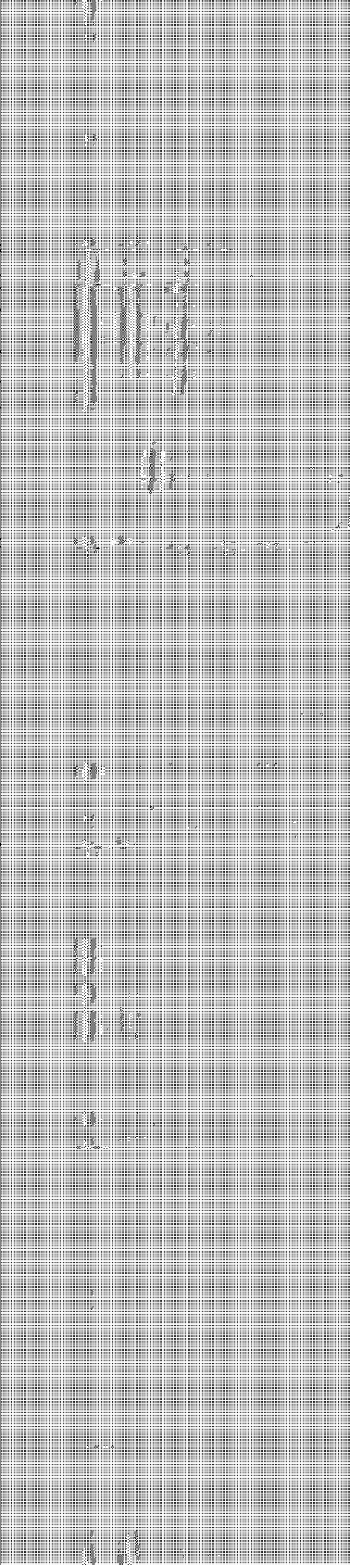
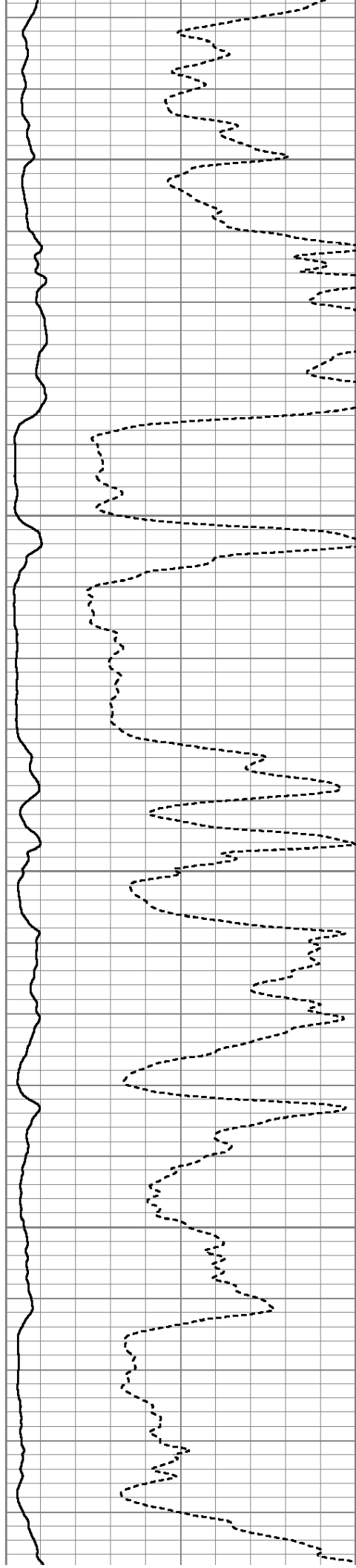


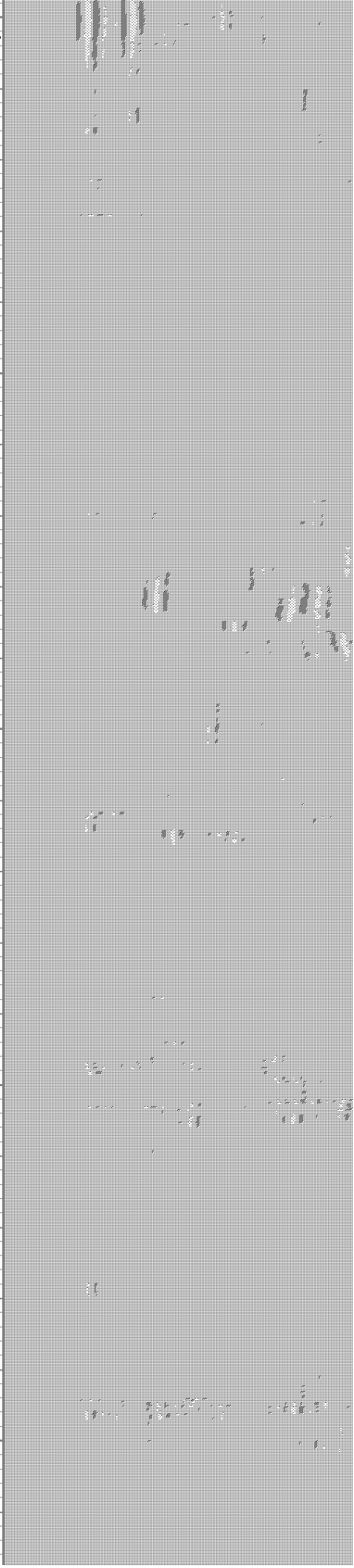
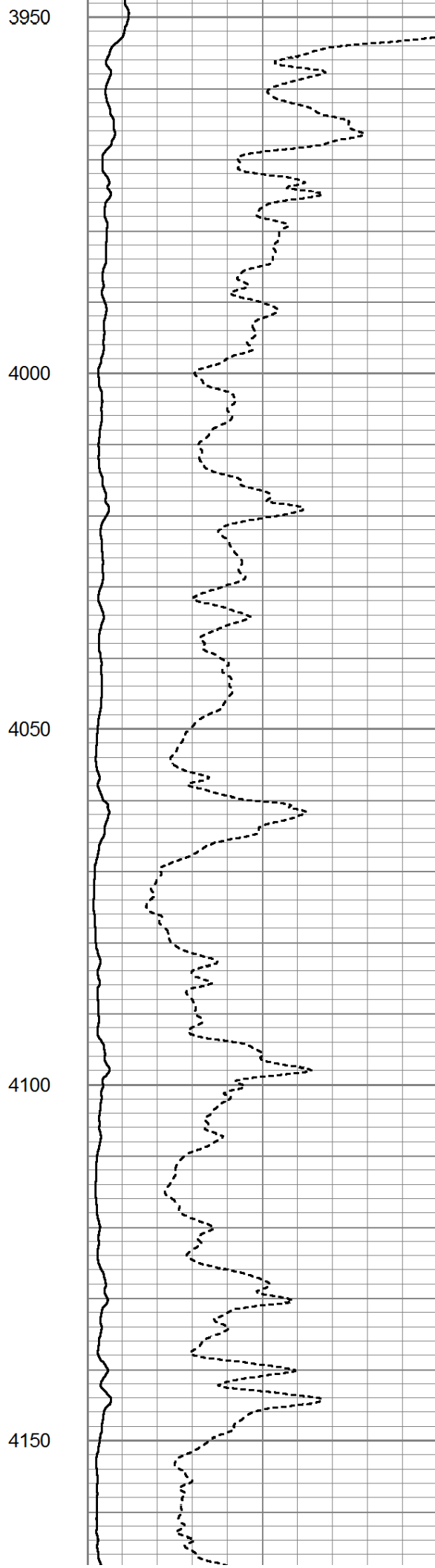
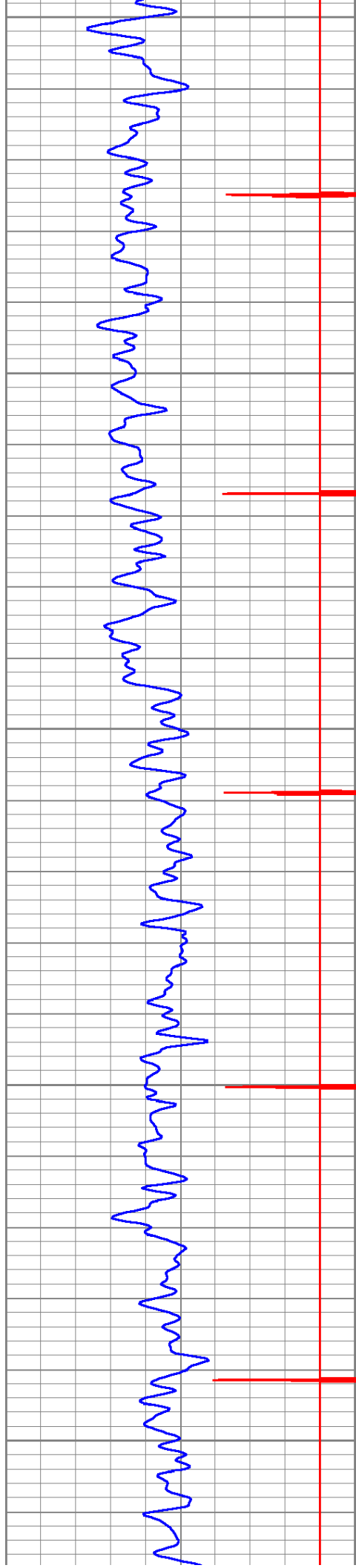
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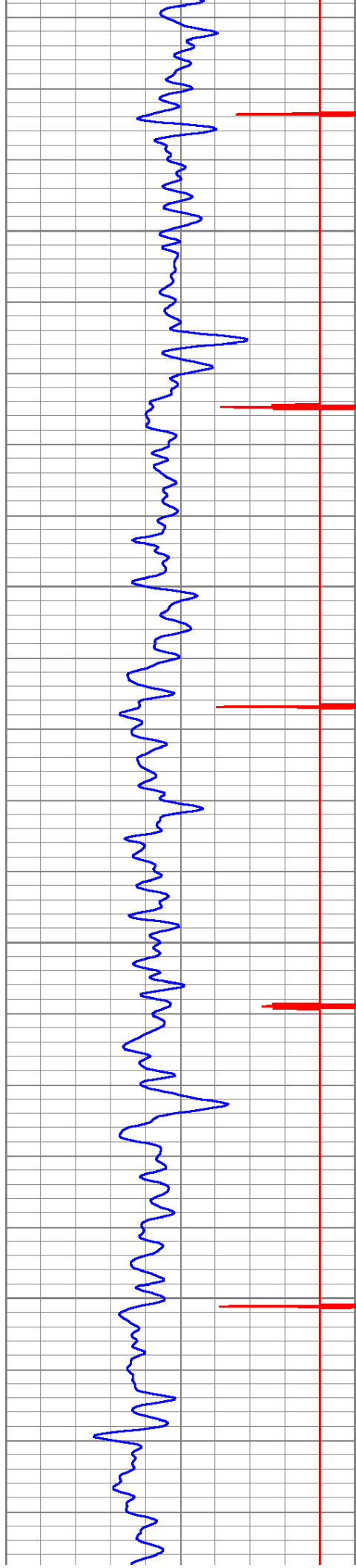
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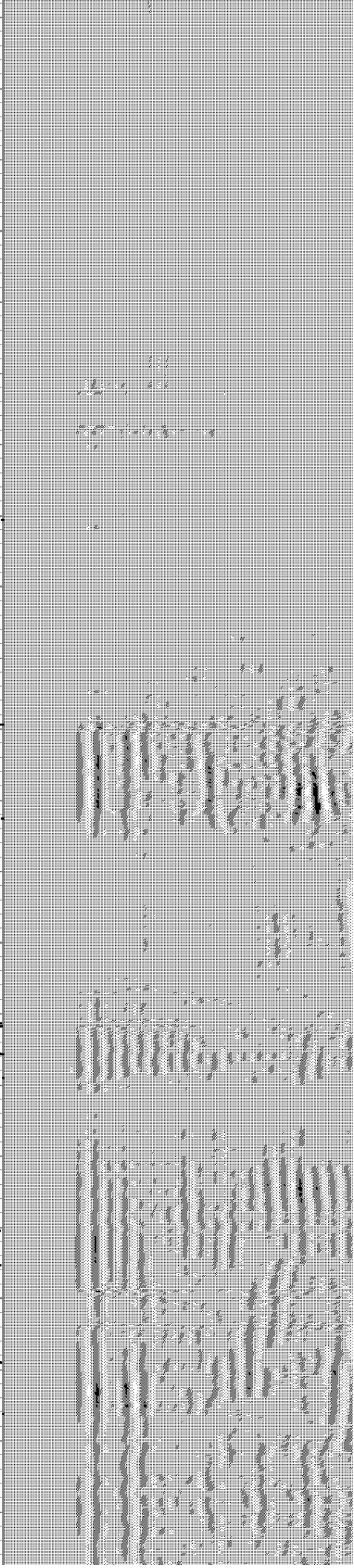
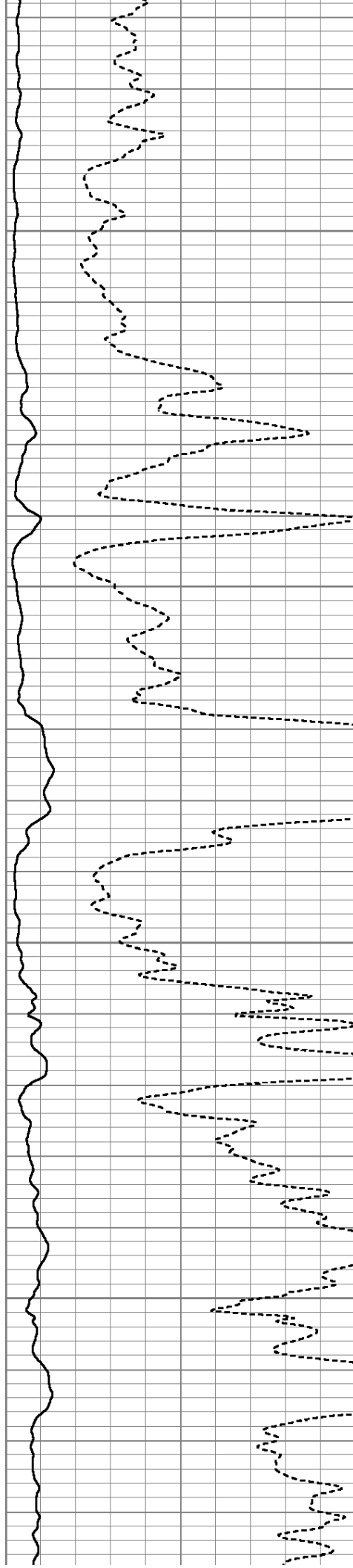


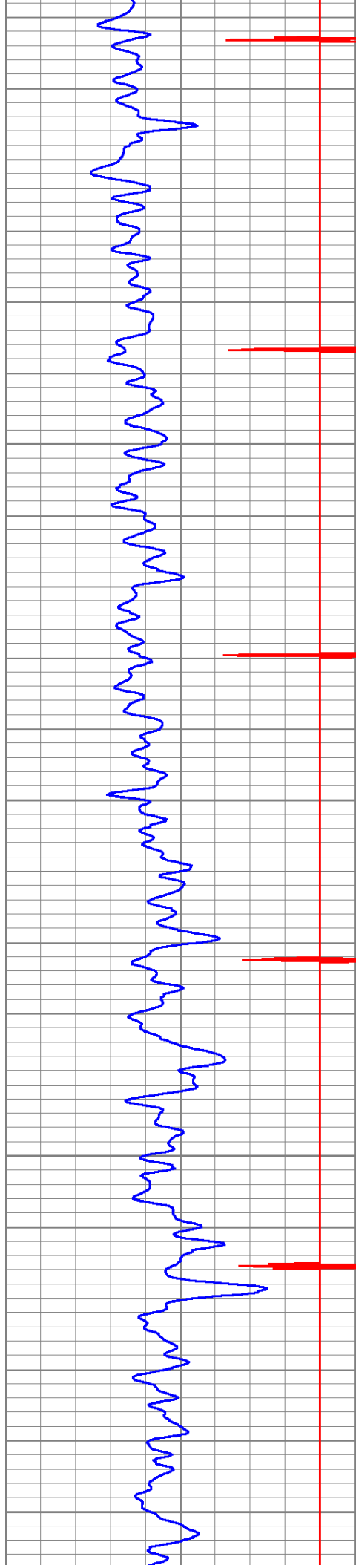
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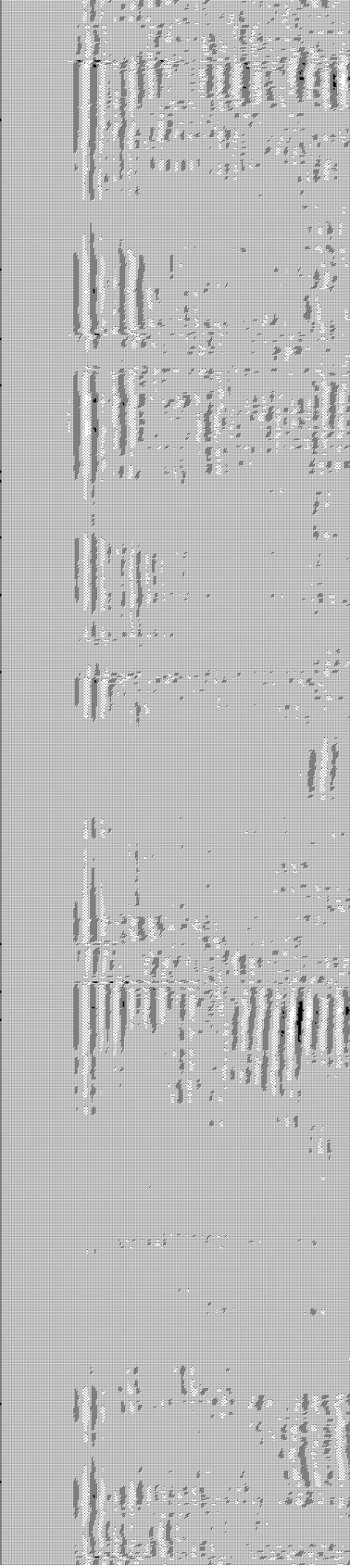
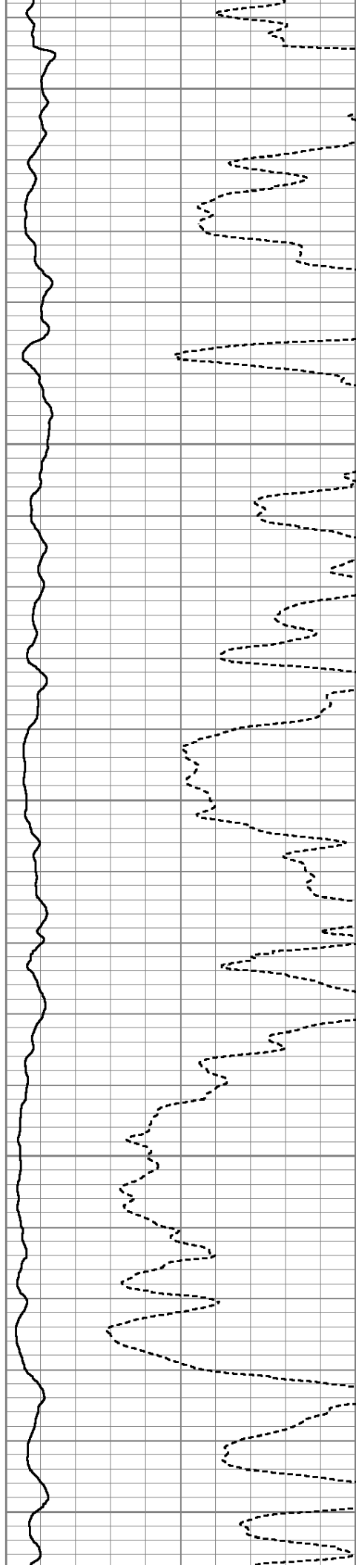
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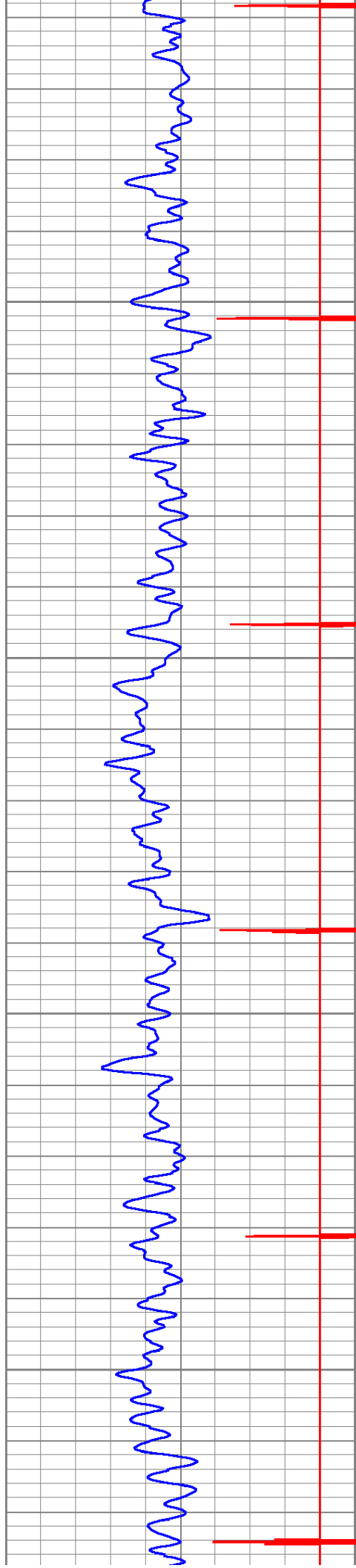
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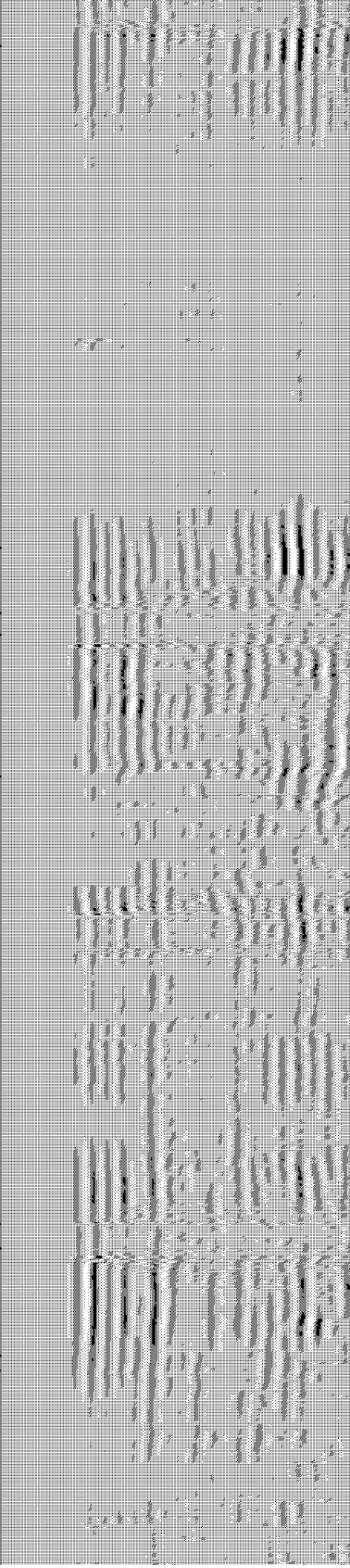
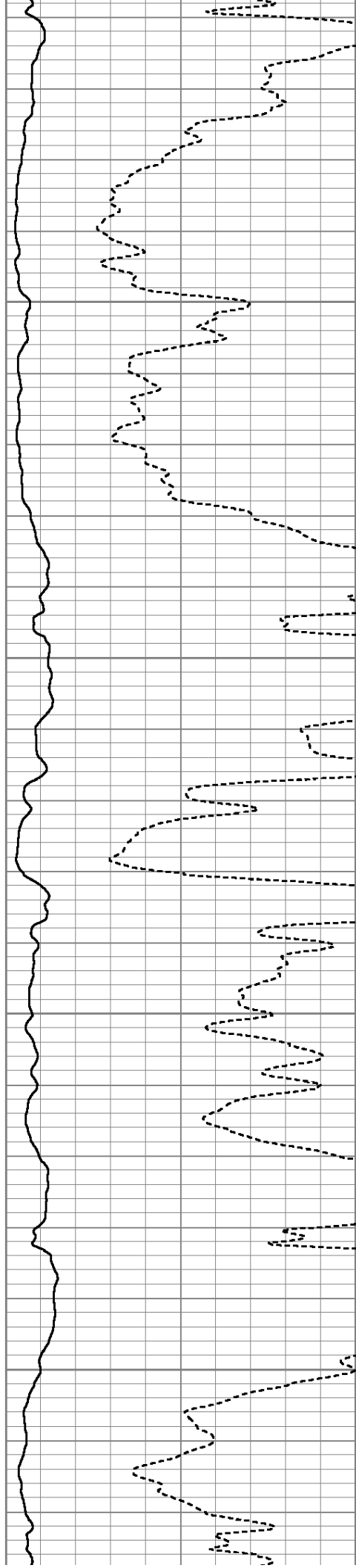


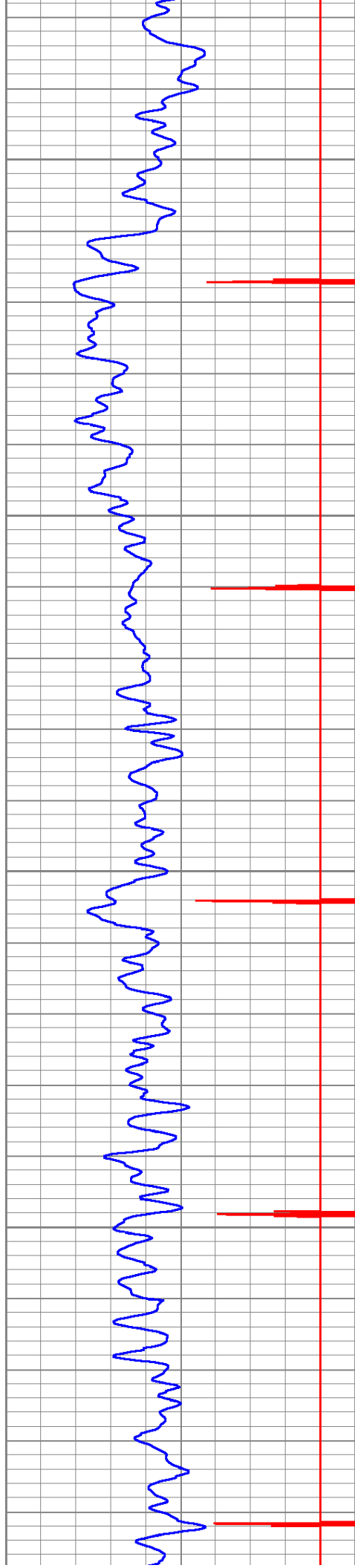
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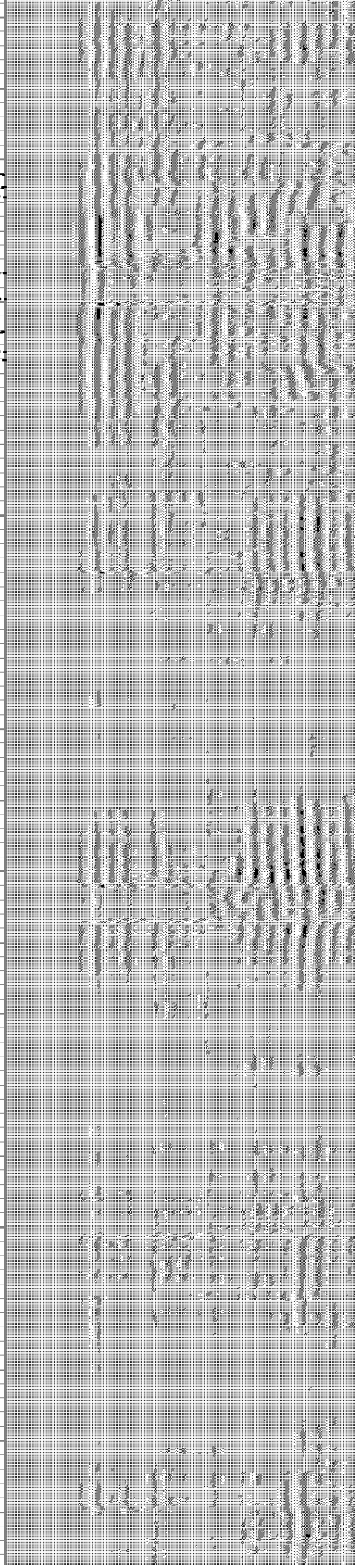
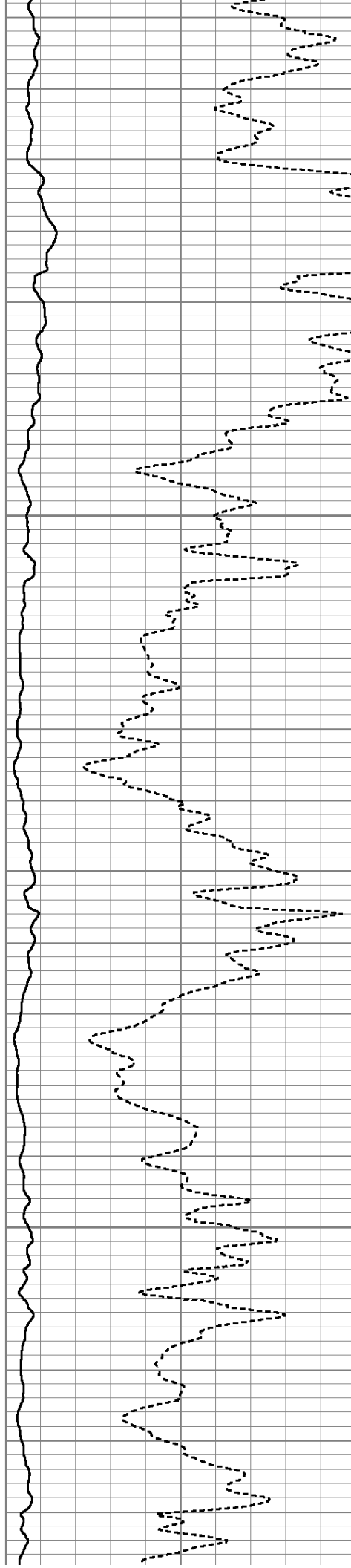


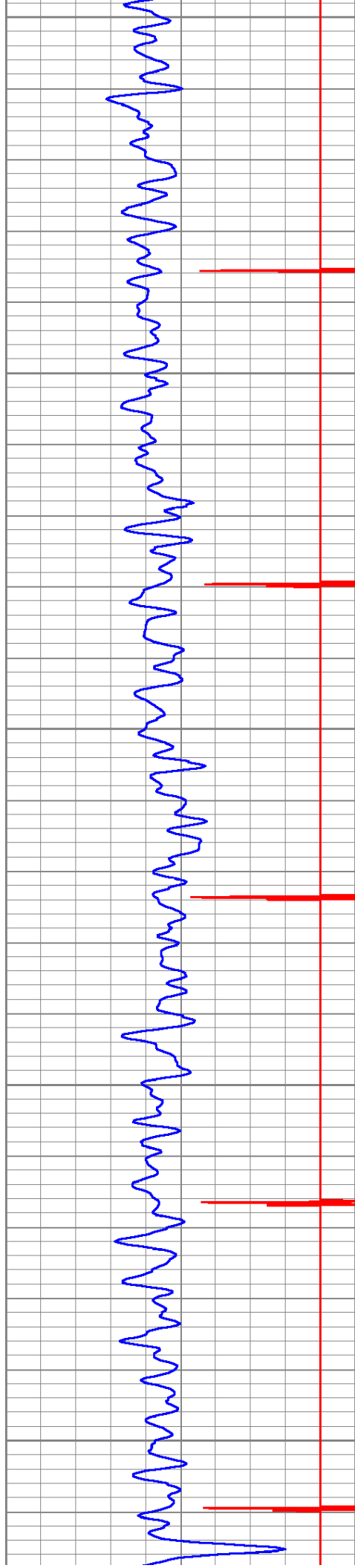
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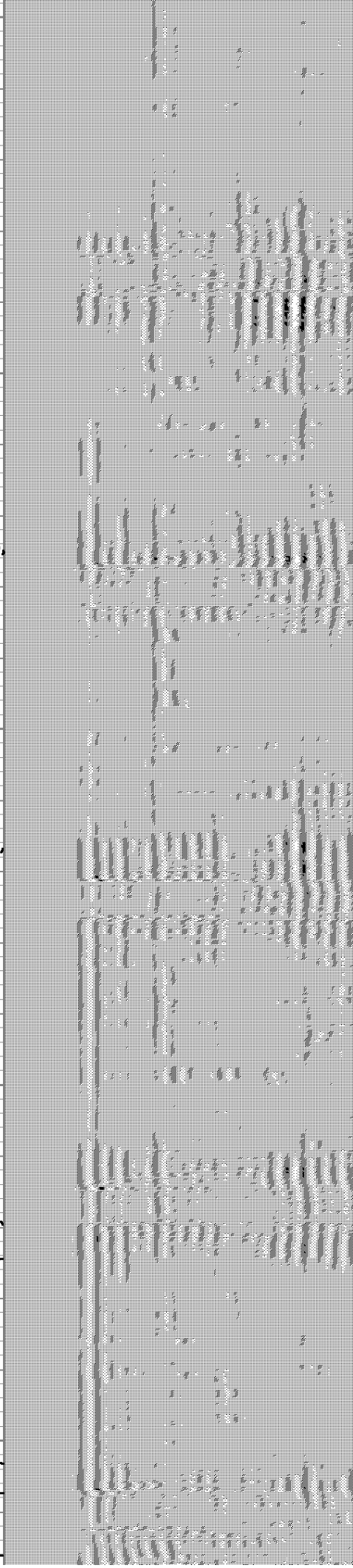
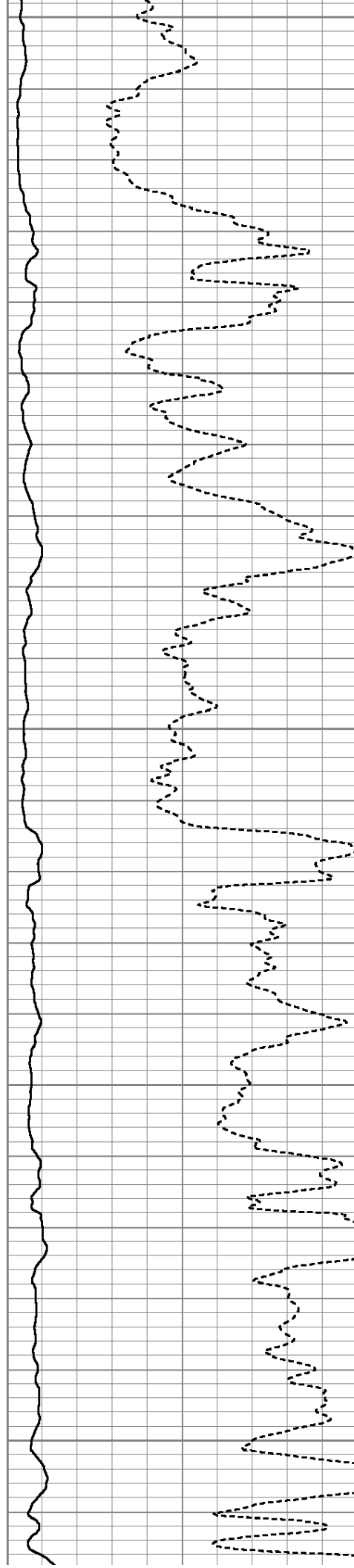
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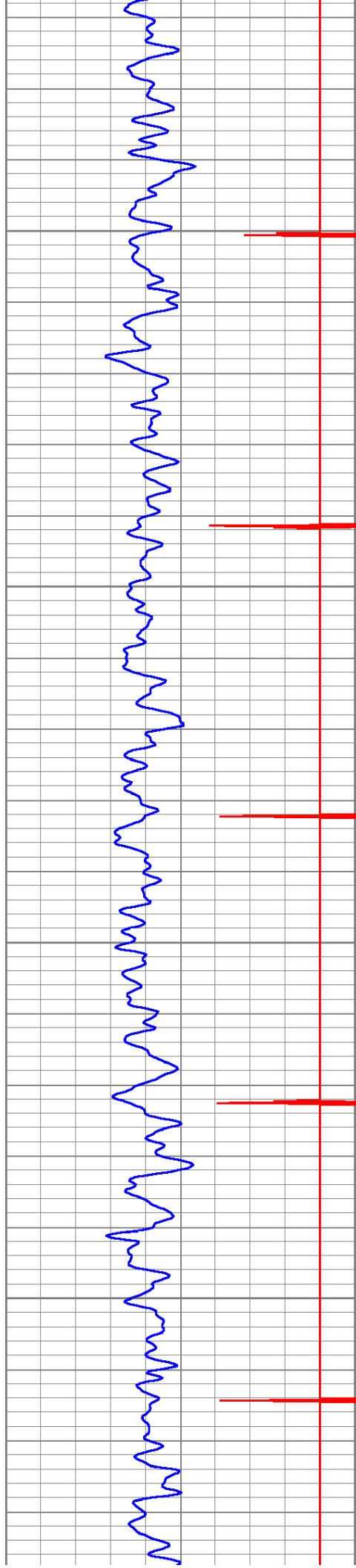
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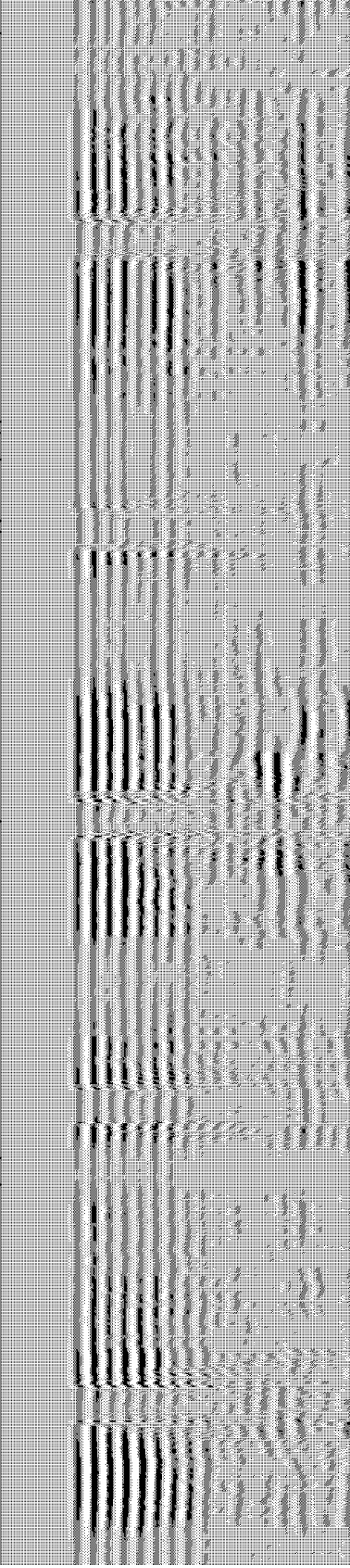
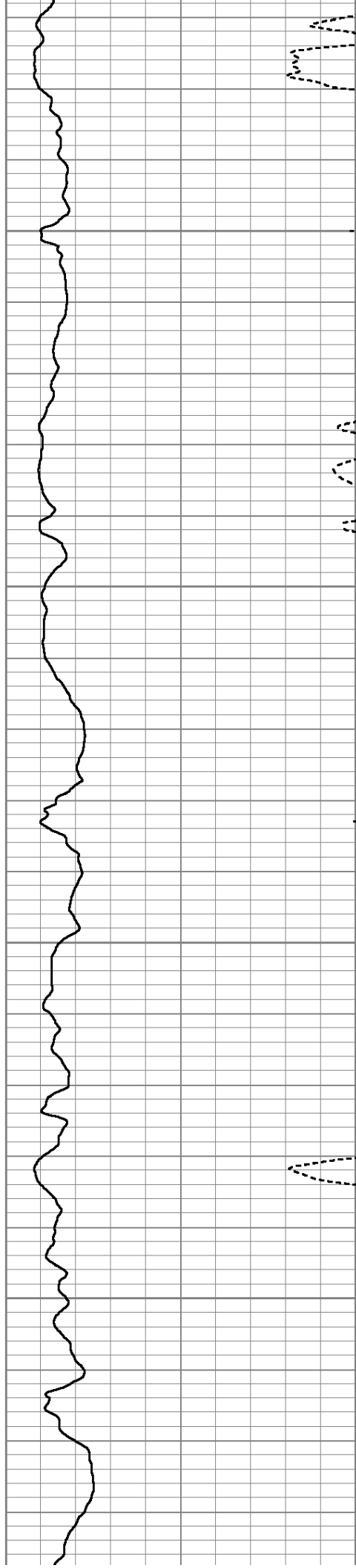


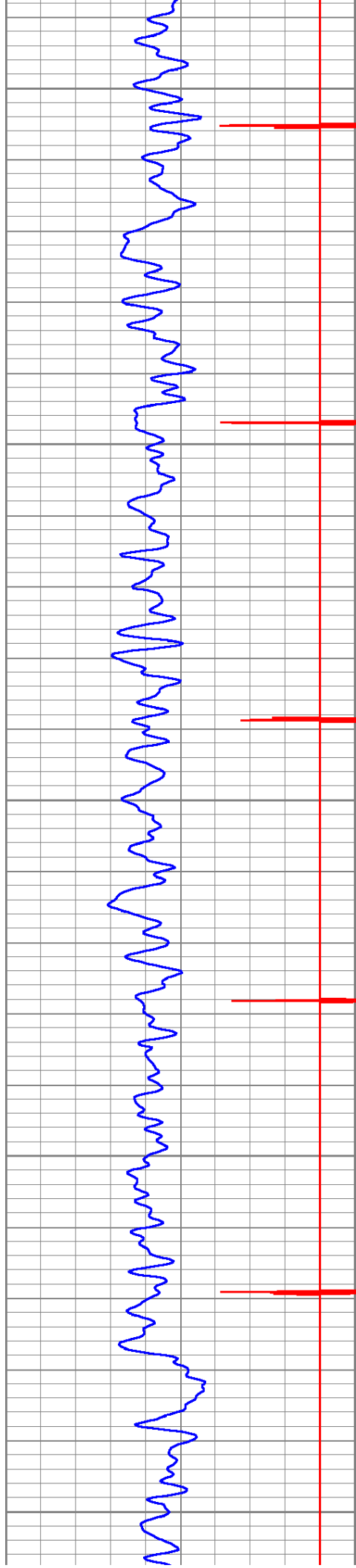
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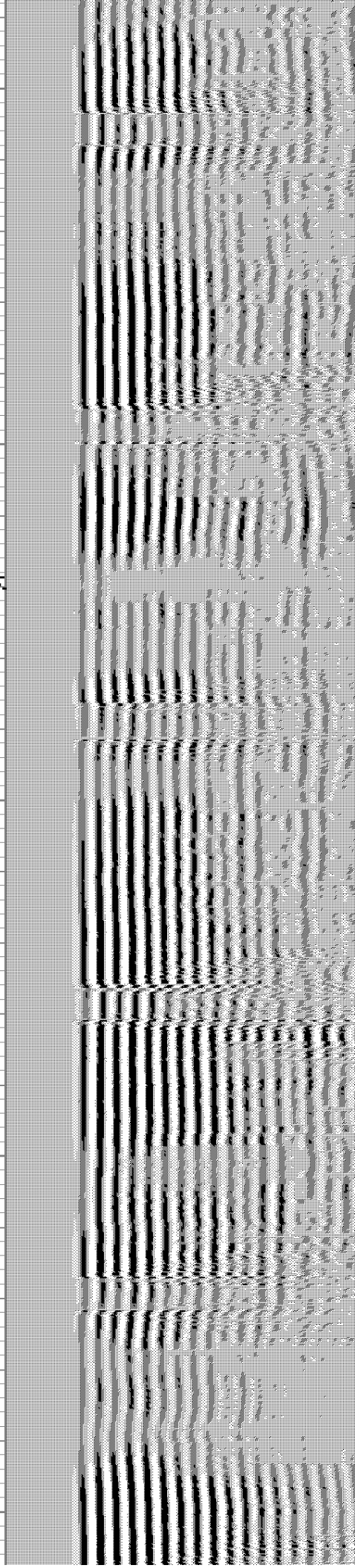
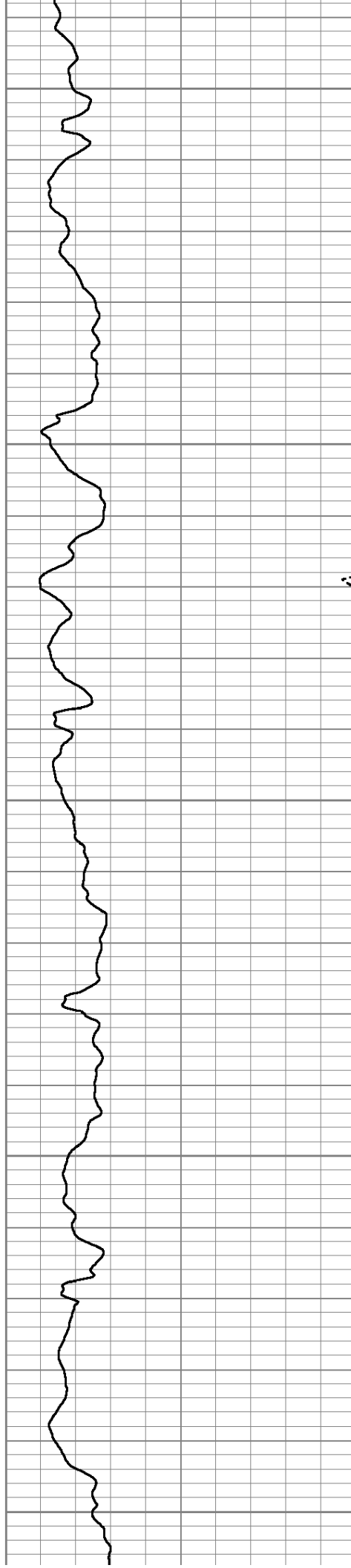
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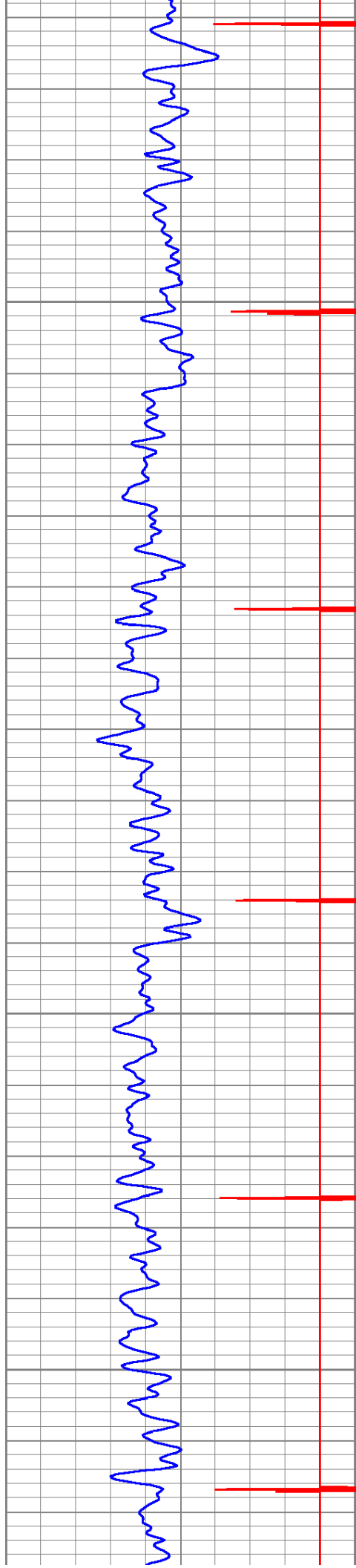
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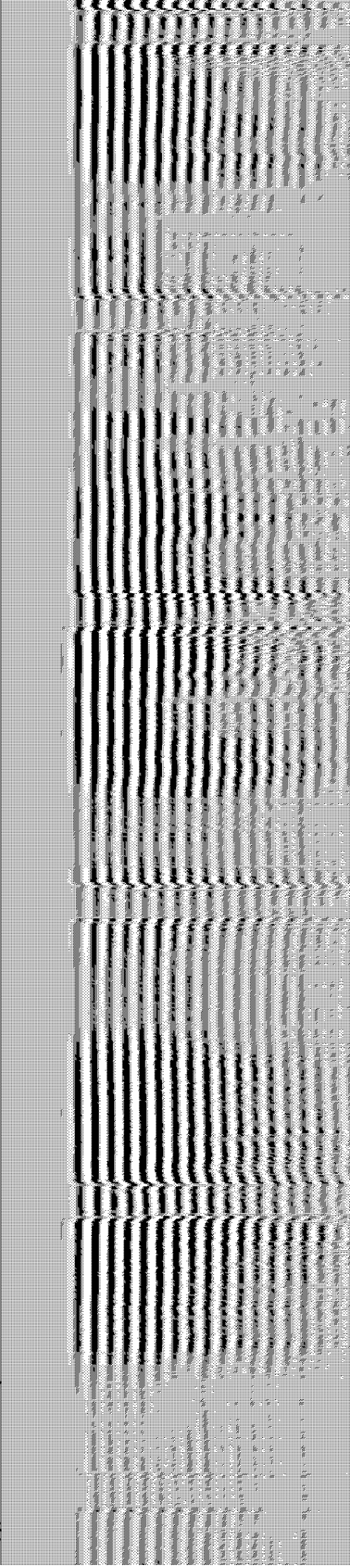
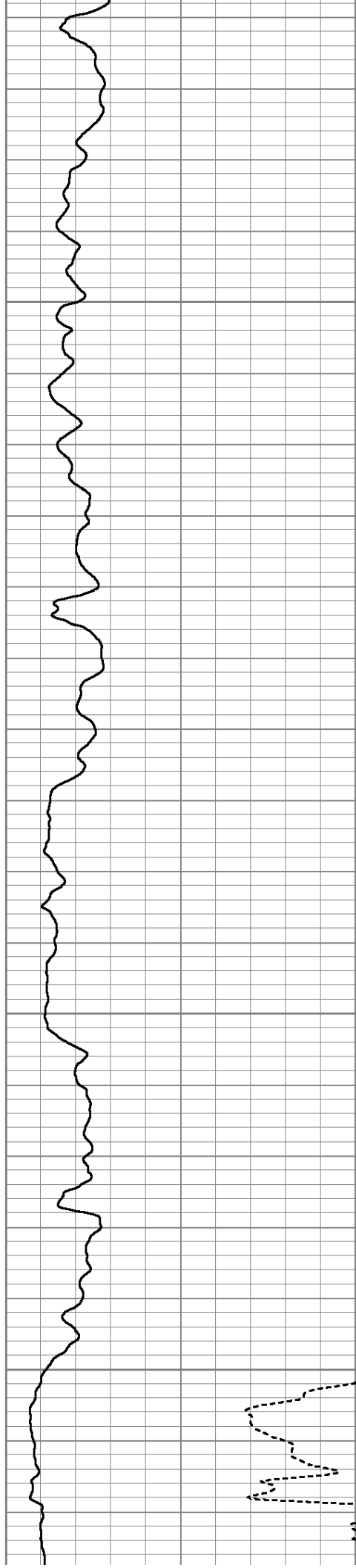


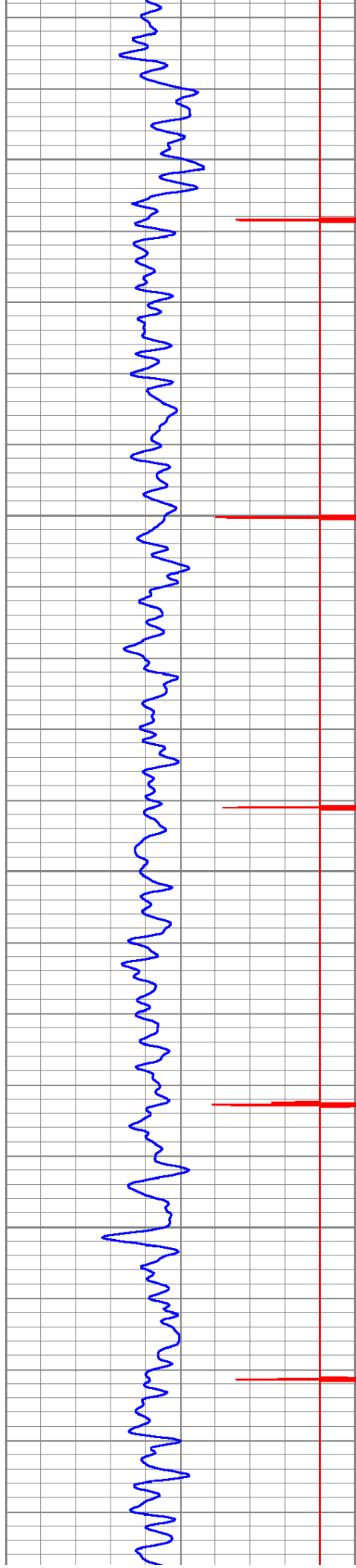
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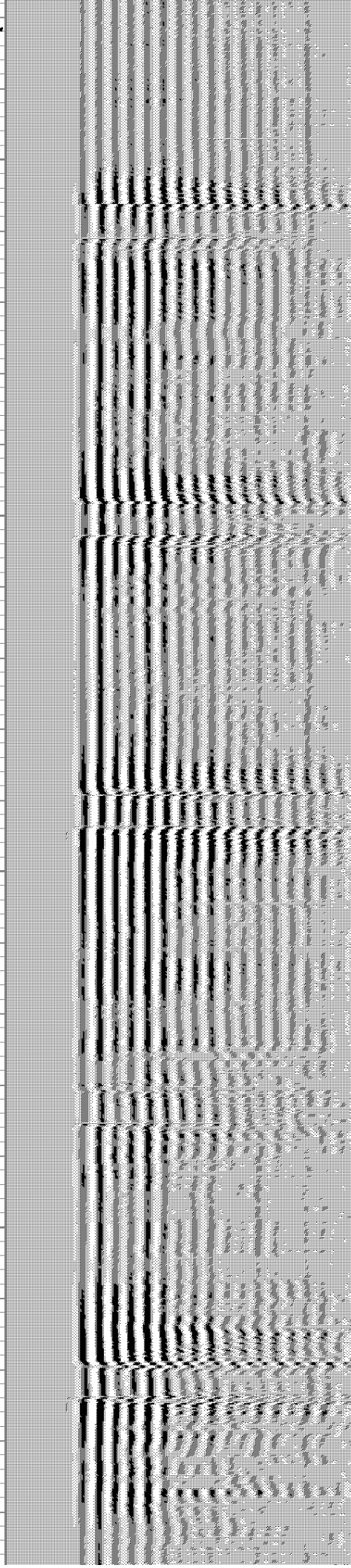
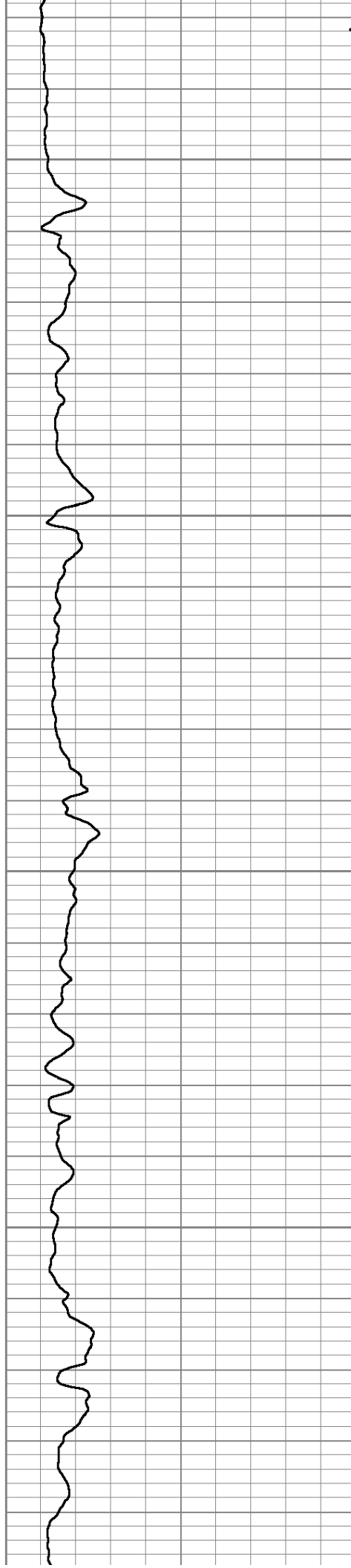


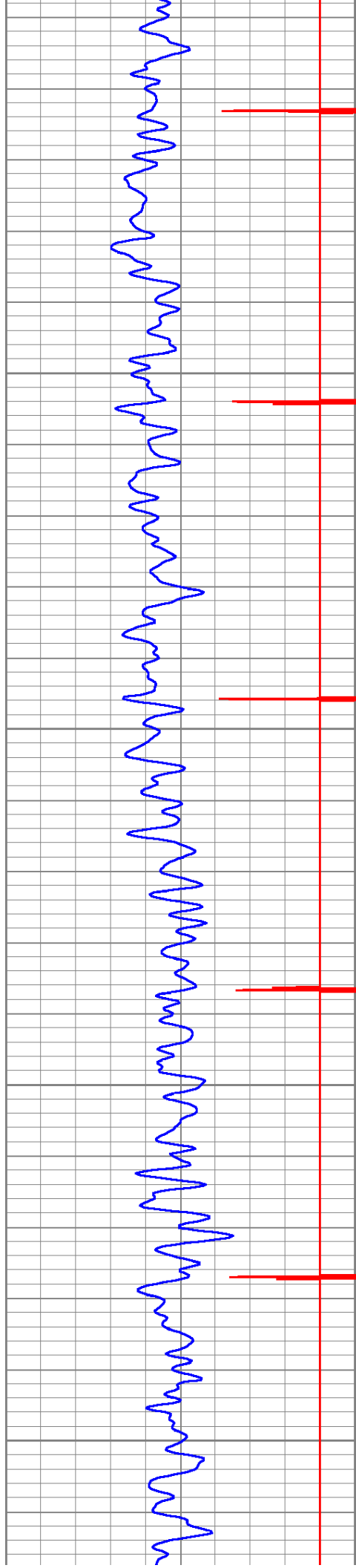
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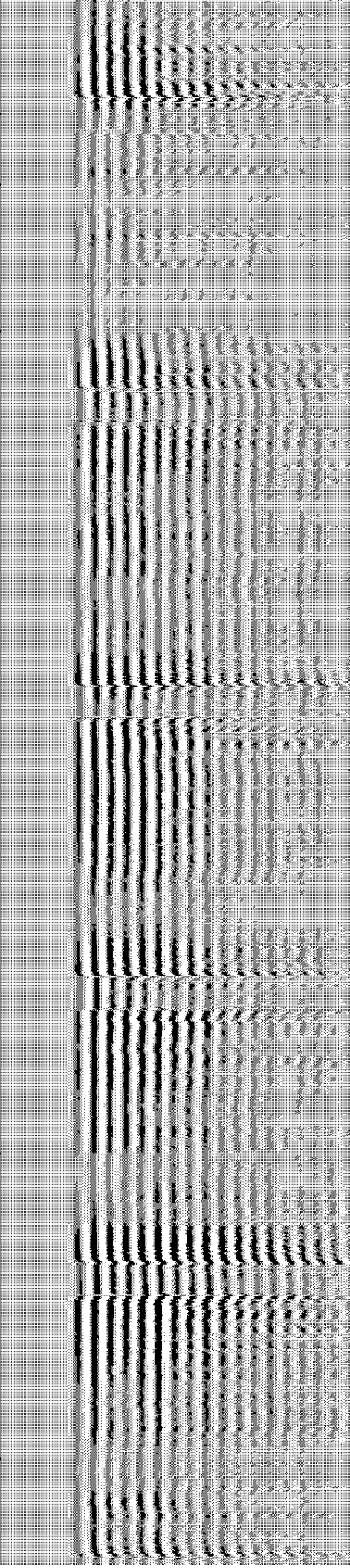
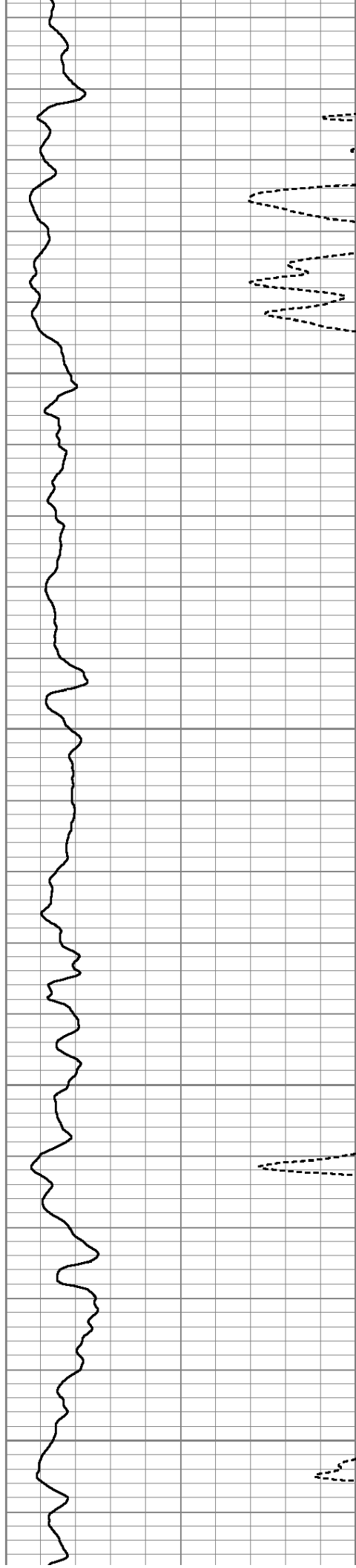
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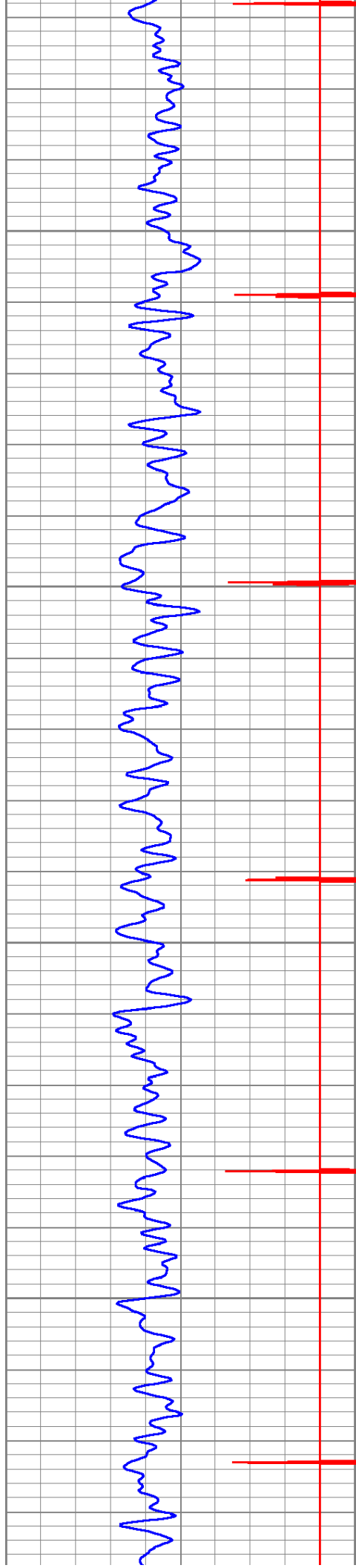
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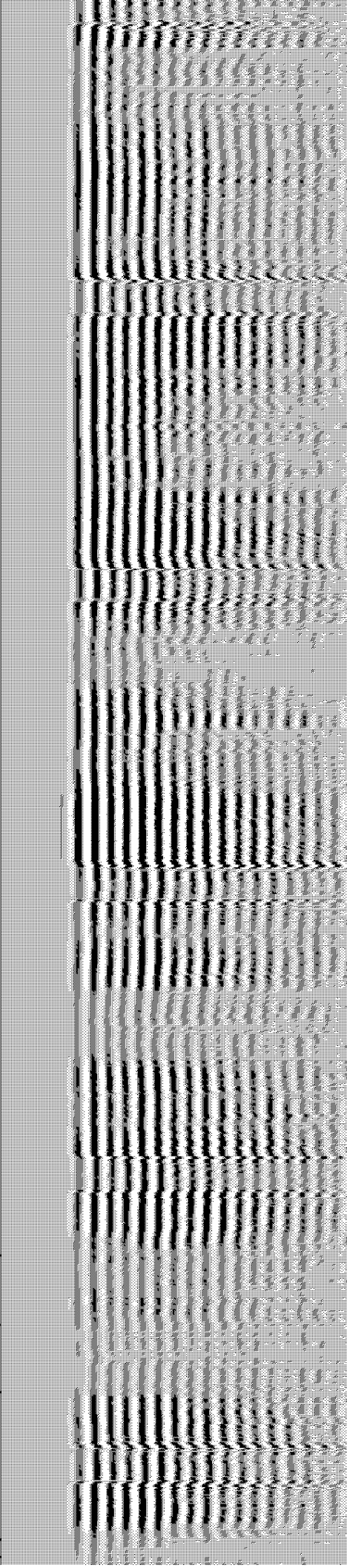
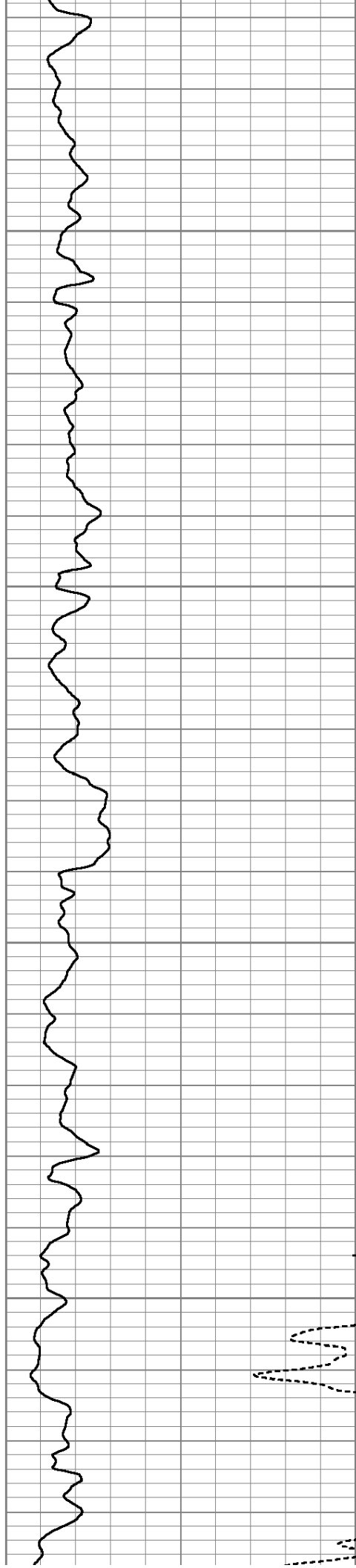


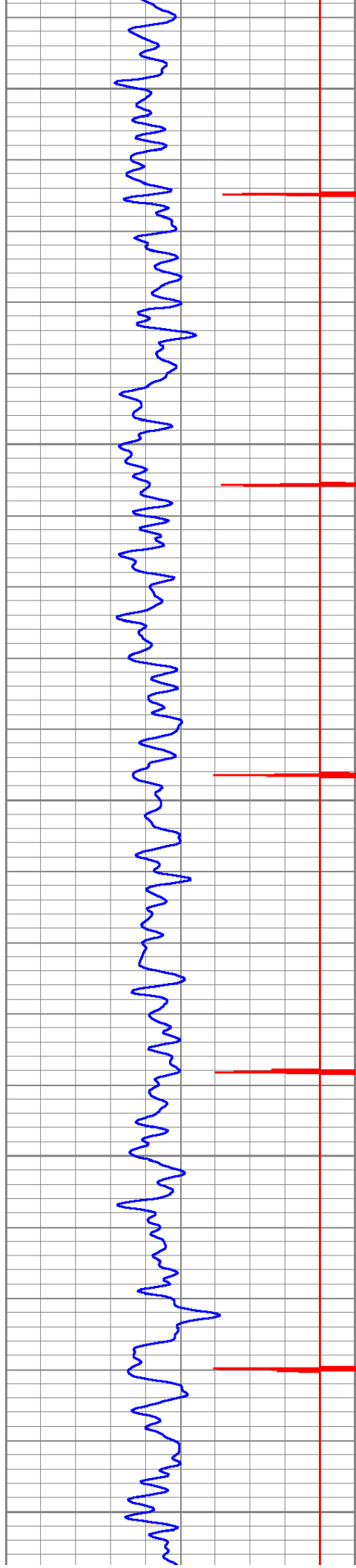
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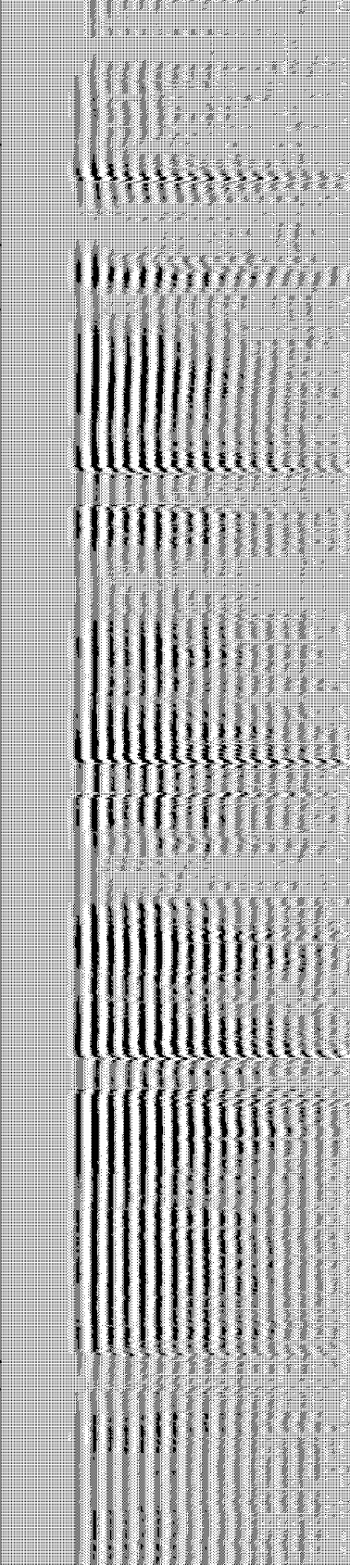
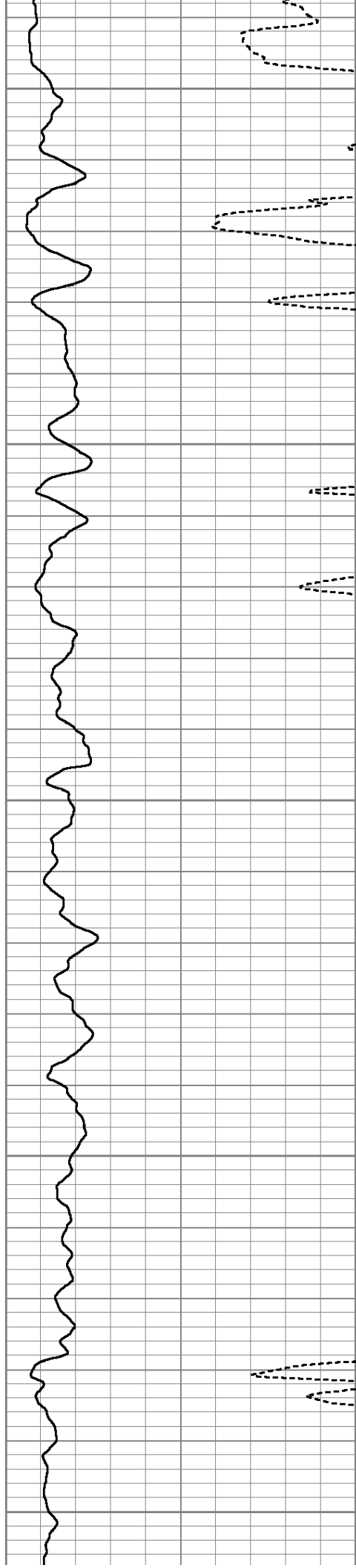
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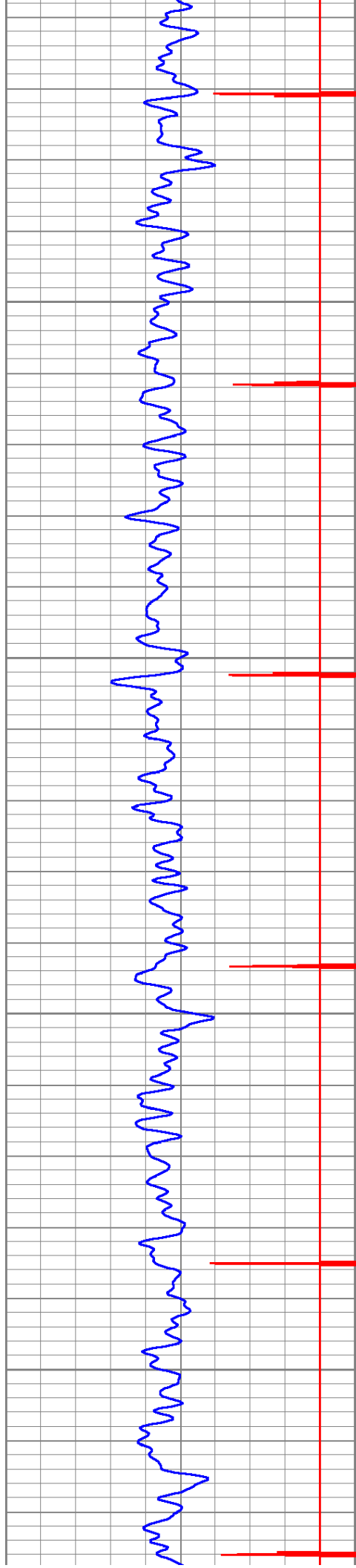
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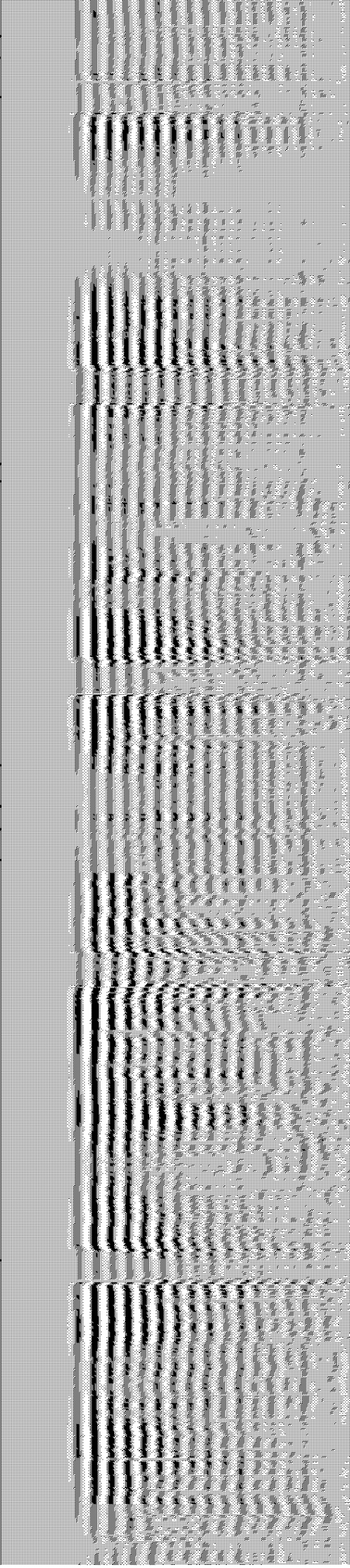
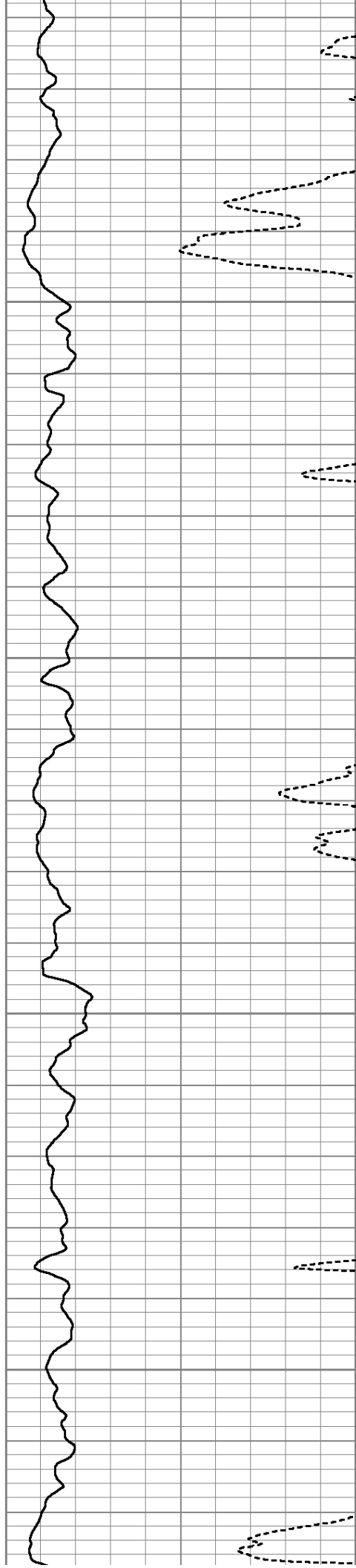


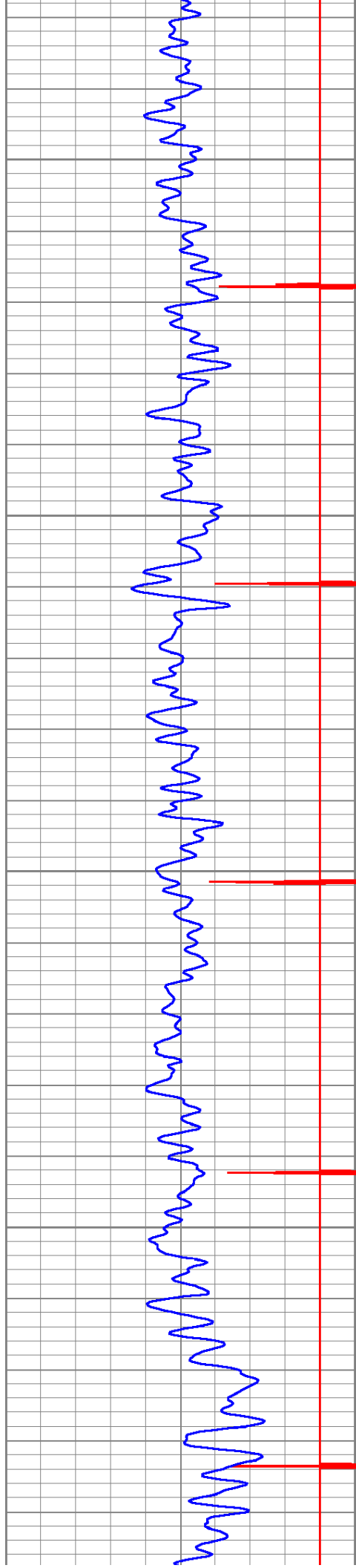
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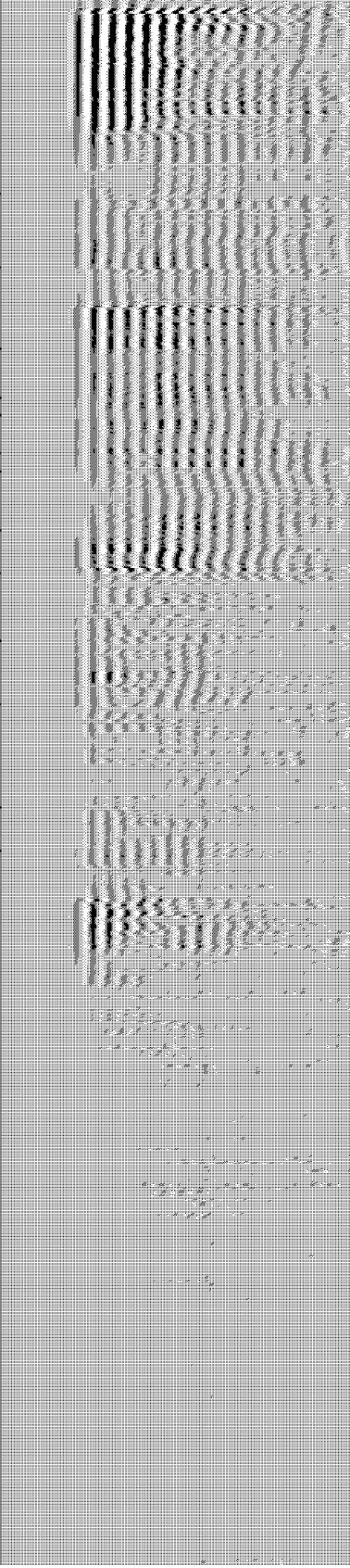
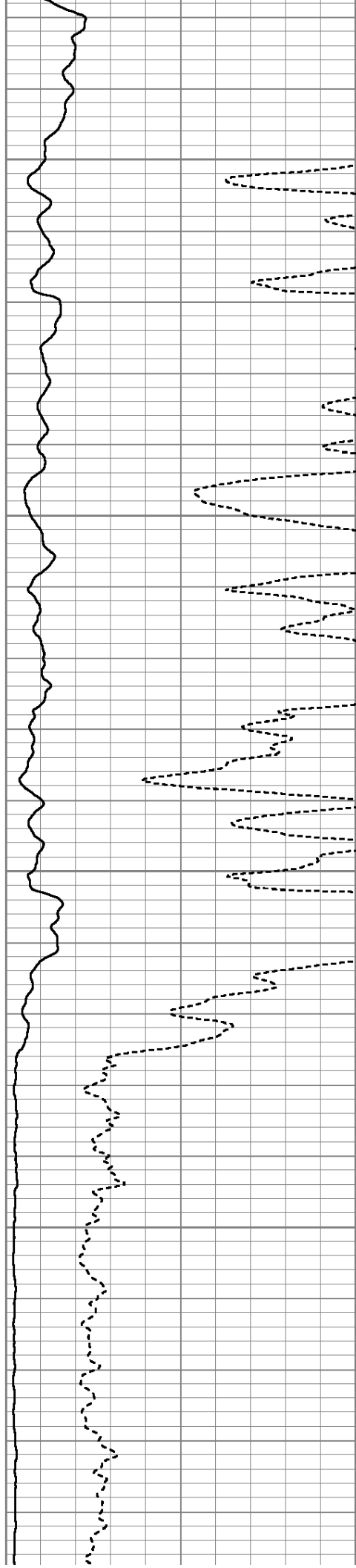


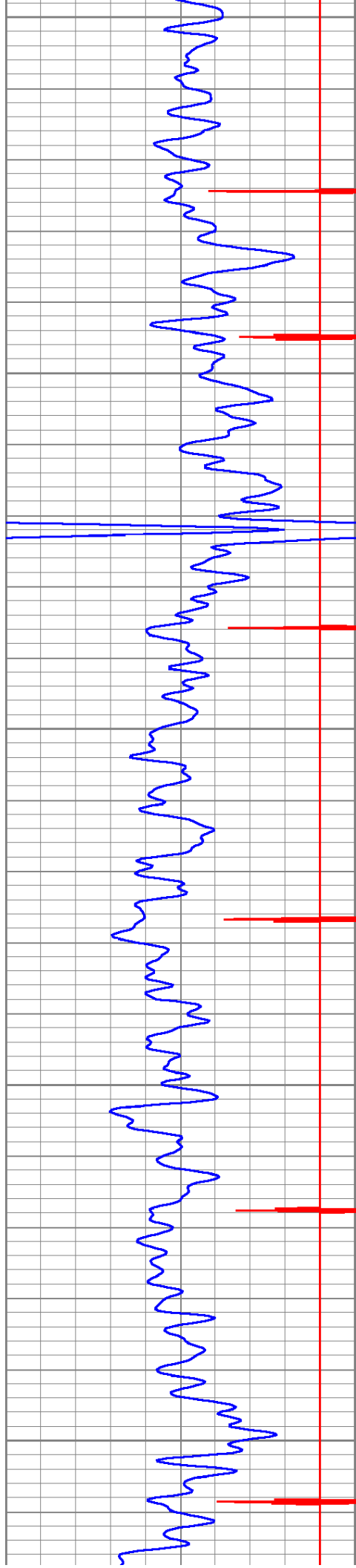
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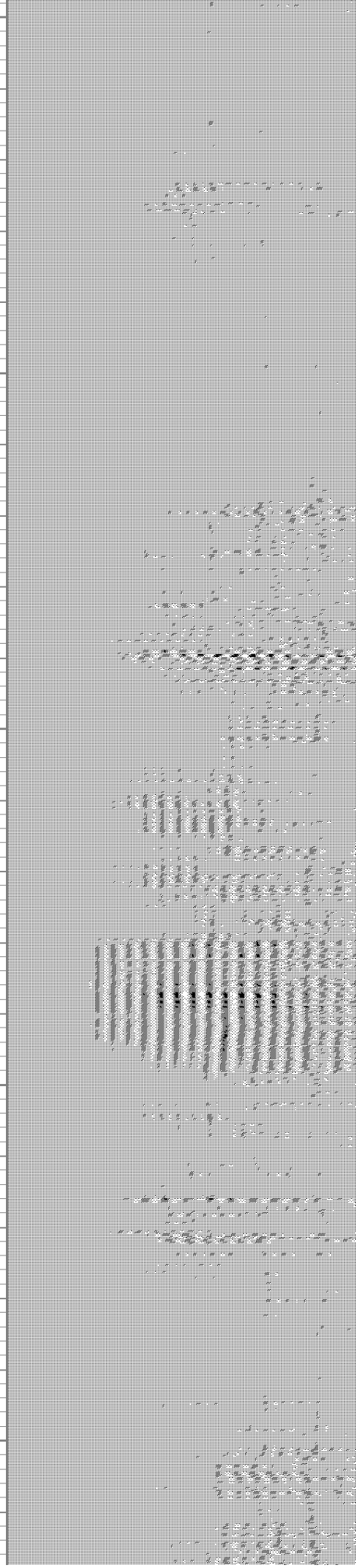
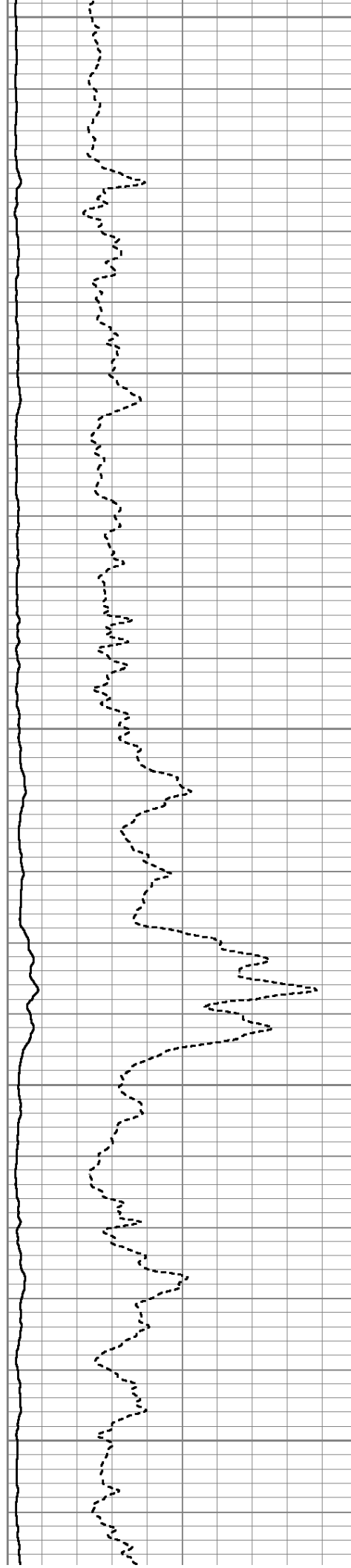
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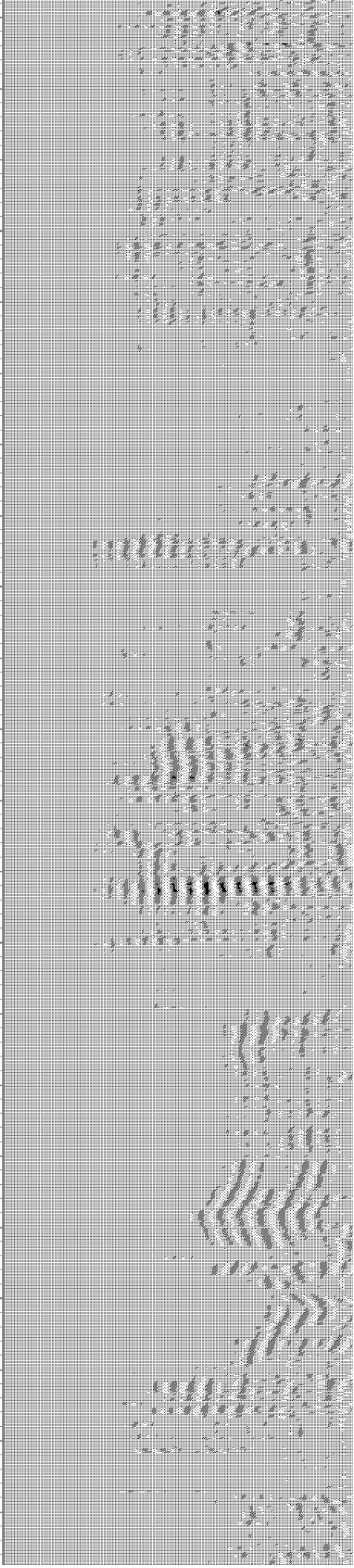
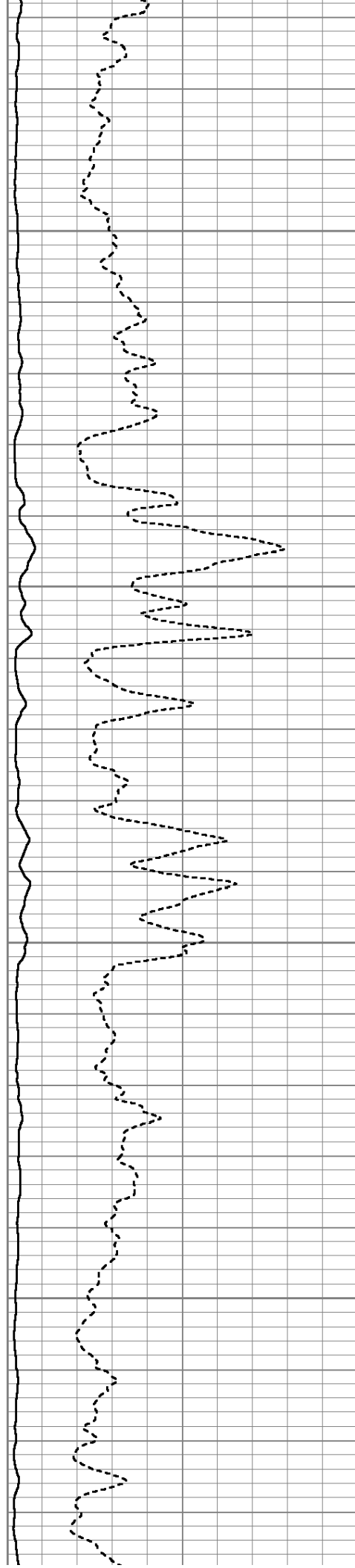


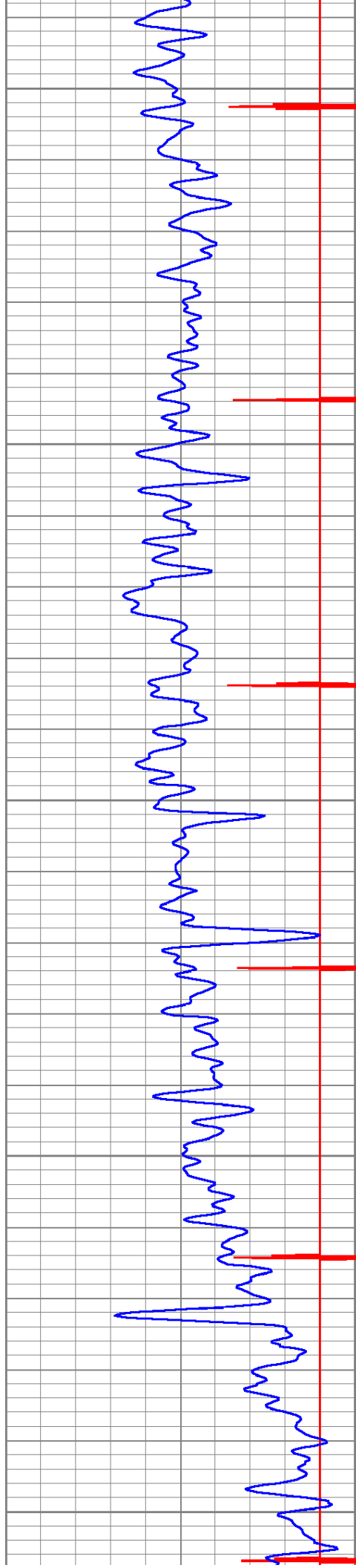
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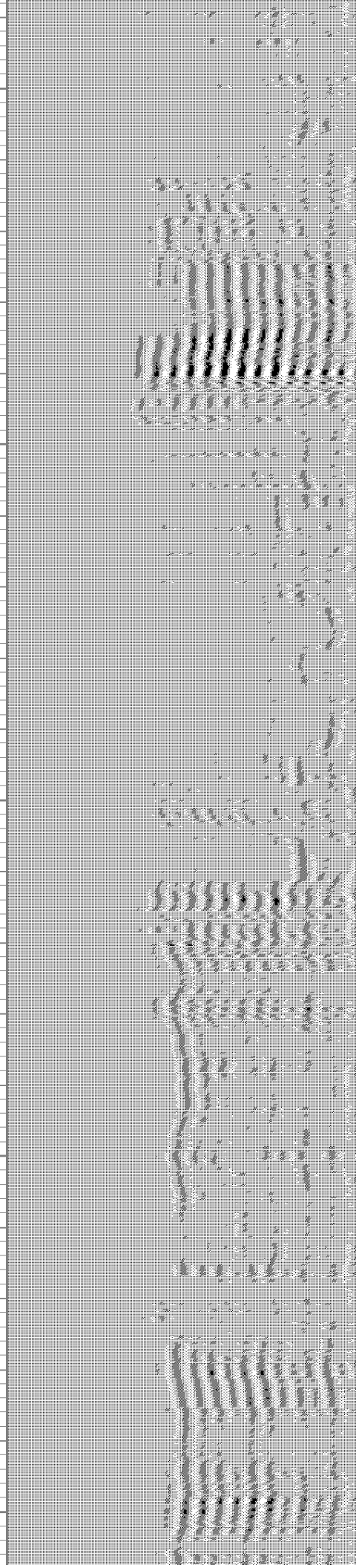
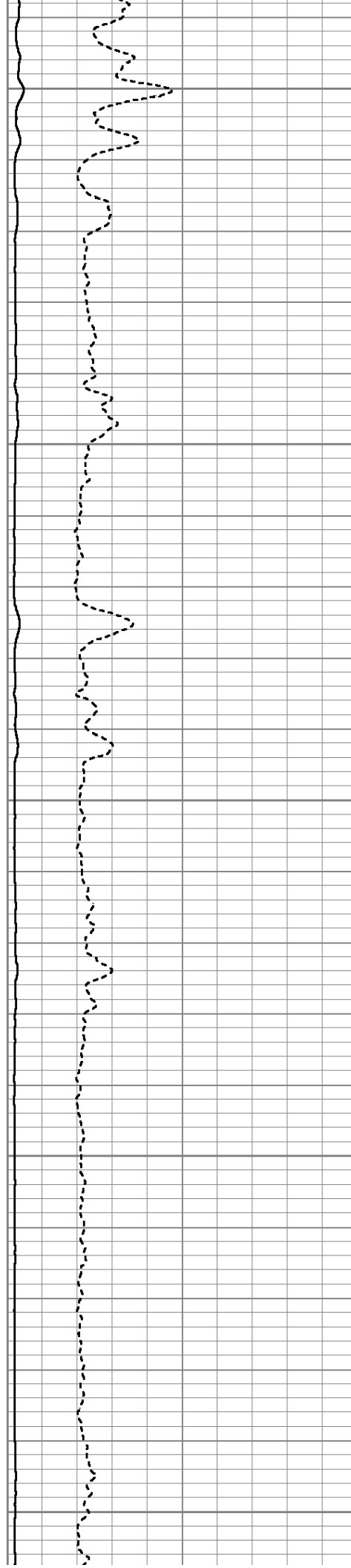
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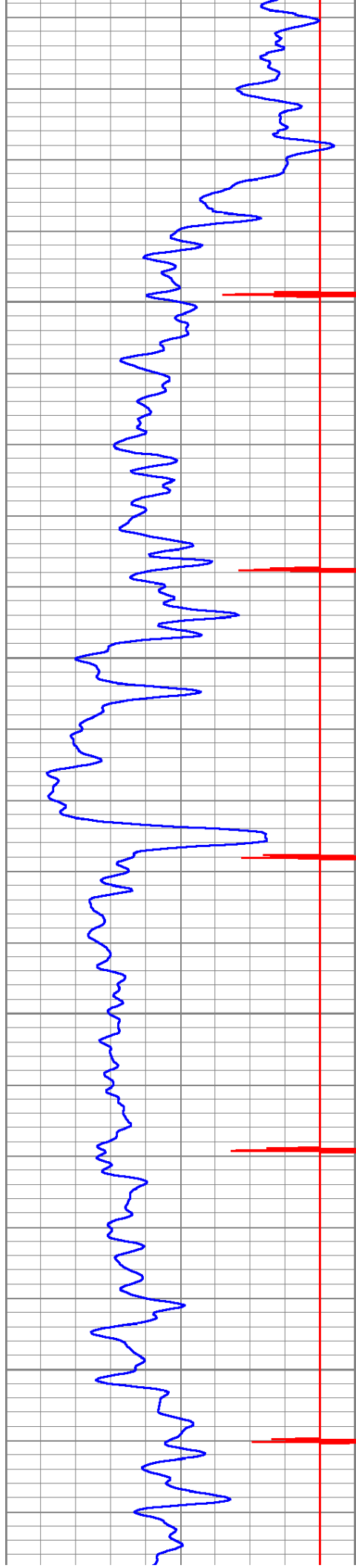
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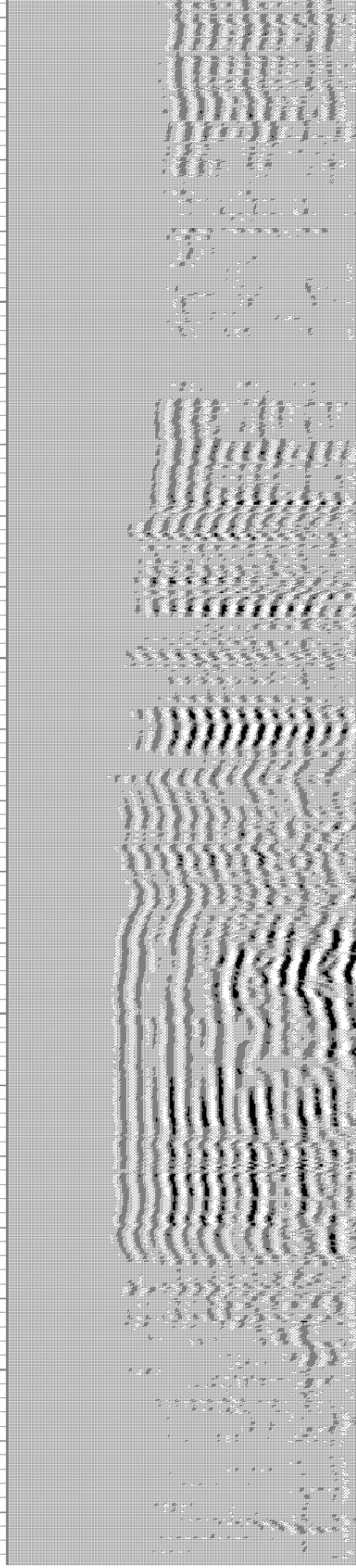
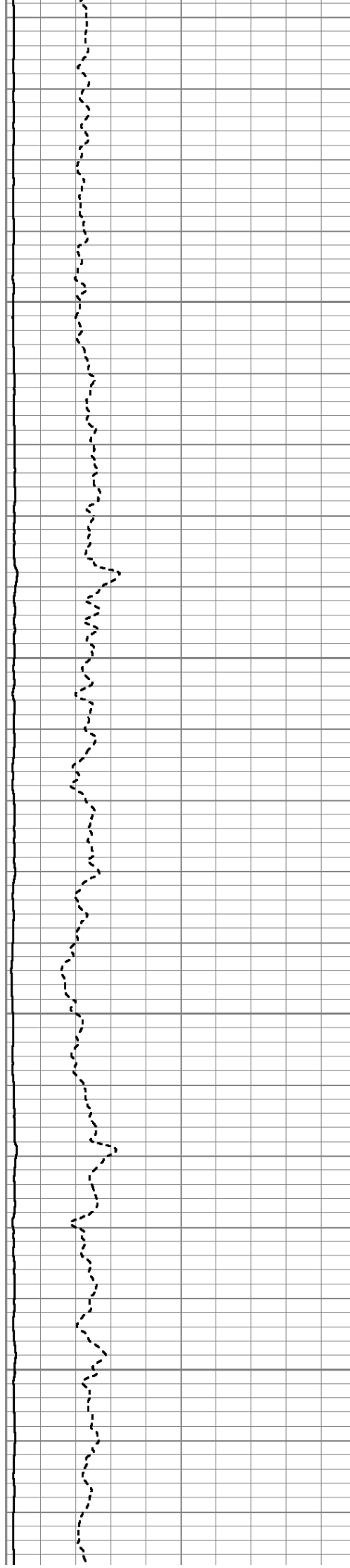


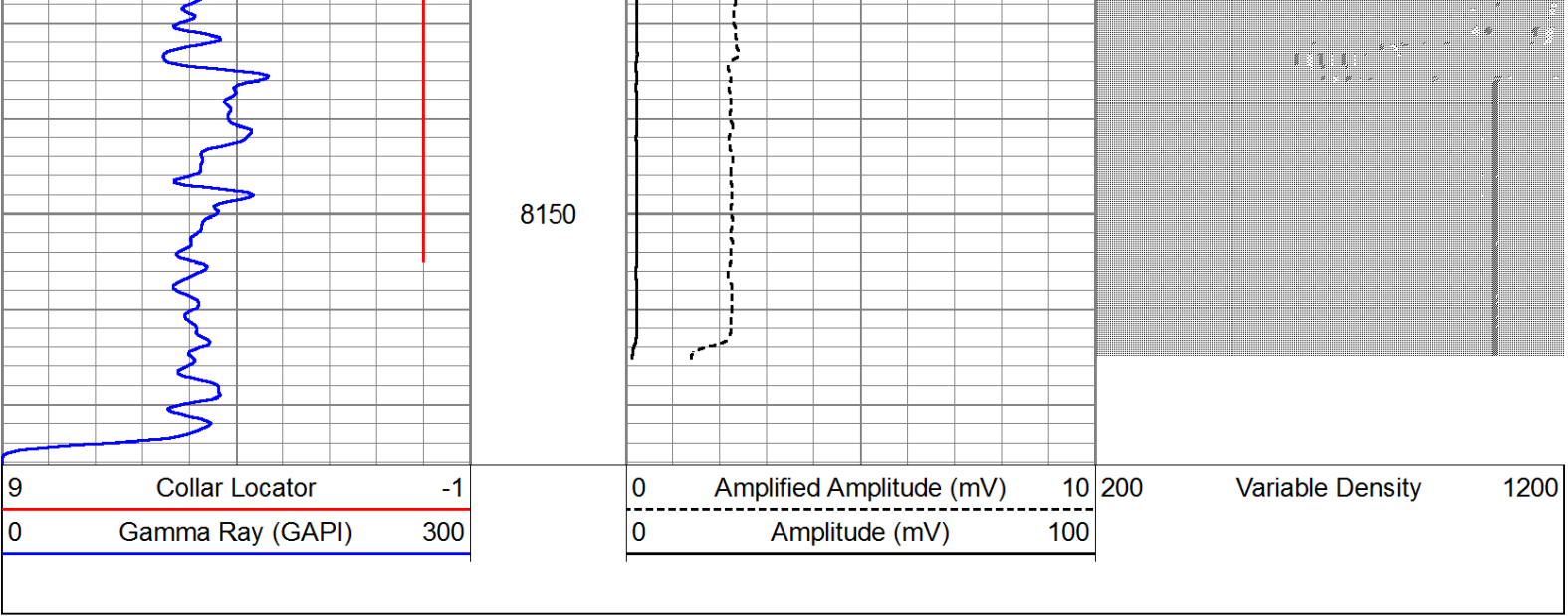
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Pioneer Energy Services

REPEAT PASS

Database File: north rinn 2-4-9.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Thu Aug 08 08:26:54 2013 by Log SCH 120126
Charted by: Depth in Feet scaled 1:240

