



VDL CCL GAMMA-RAY  
CEMENT BOND LOG

Pioneer Energy Services

Company GREAT WESTERN OIL & GAS LLC  
Well PETERSON CX GH 30-40 D  
Field WATTENBERG  
County WELD State COLORADO

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Well PETERSON CX GH 30-40 D  
Field WATTENBERG  
County WELD  
State COLORADO

Location: SHL 1427' FNL & 2261' FEL SWNE  
EST. BHL 2621' FNL & 20' FEL SENE  
SEC 30 TWP 5N RGE 63W  
Permanent Datum GL Elevation 4574'  
Log Measured From KB  
Drilling Measured From KB  
Other Services

Date JAN. 22 2013

Run Number ONE  
Depth Driller 7347'  
Depth Logger 7320'  
Bottom Logged Interval 7302'  
Top Log Interval 40'  
Open Hole Size 7 7/8"  
Type Fluid WATER  
Density / Viscosity NA  
Max. Recorded Temp. 211 DEG. F  
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

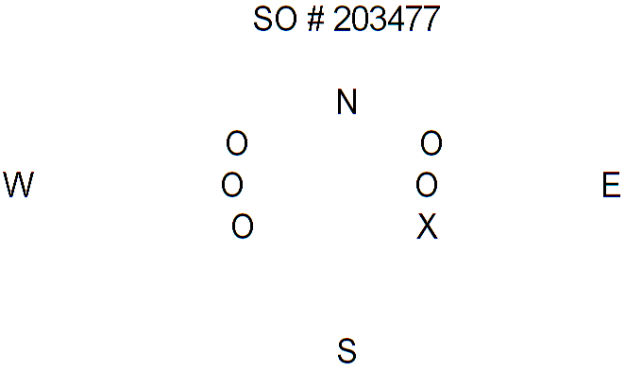
Borehole Record  
Run Number Bit From To Size Weight From To

Casing Record  
Surface String Size Wgt/Ft Top Bottom  
Prot. String 4.5" 11.6# SURFACE TD  
Production String  
Liner

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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.

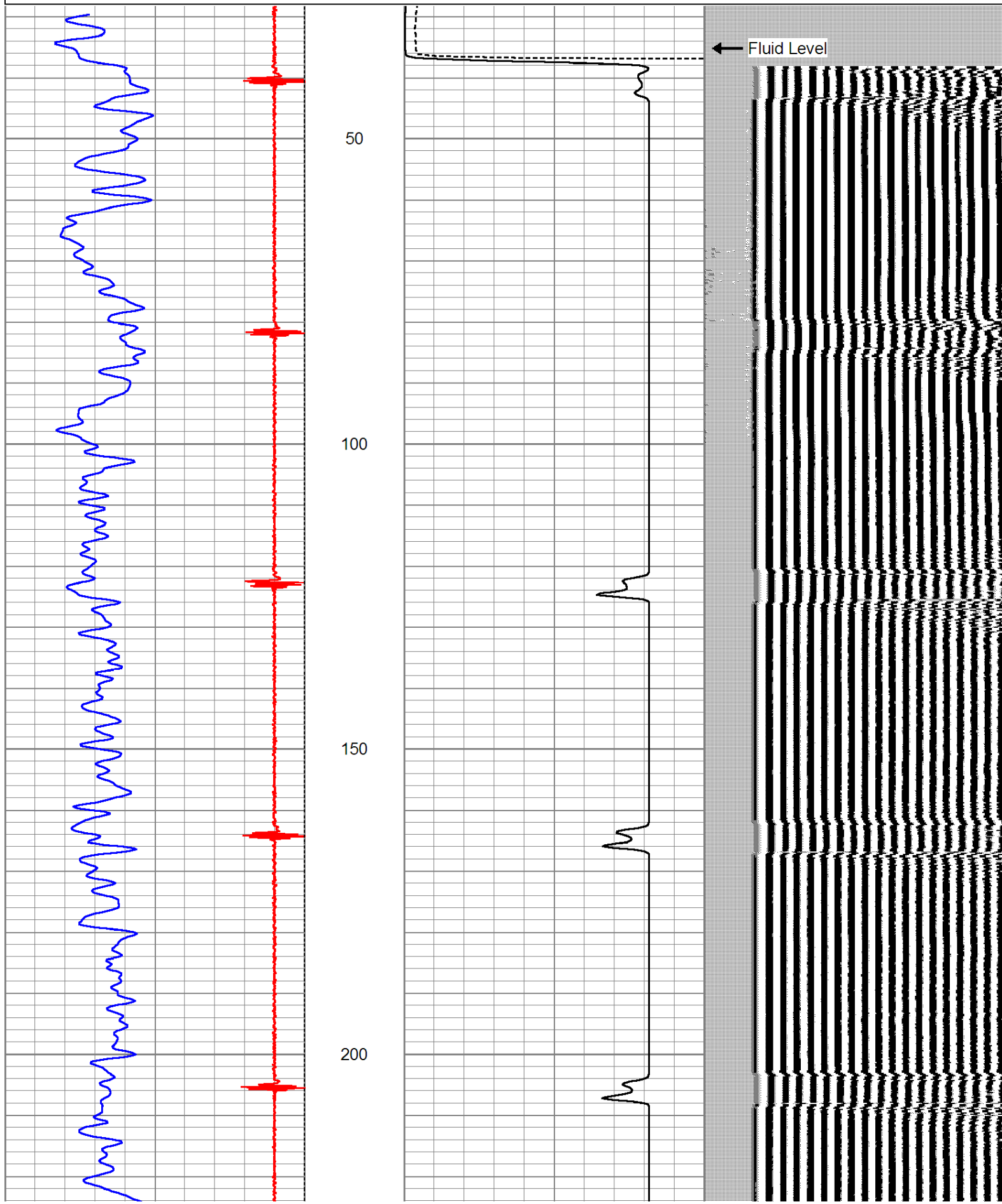
Comments

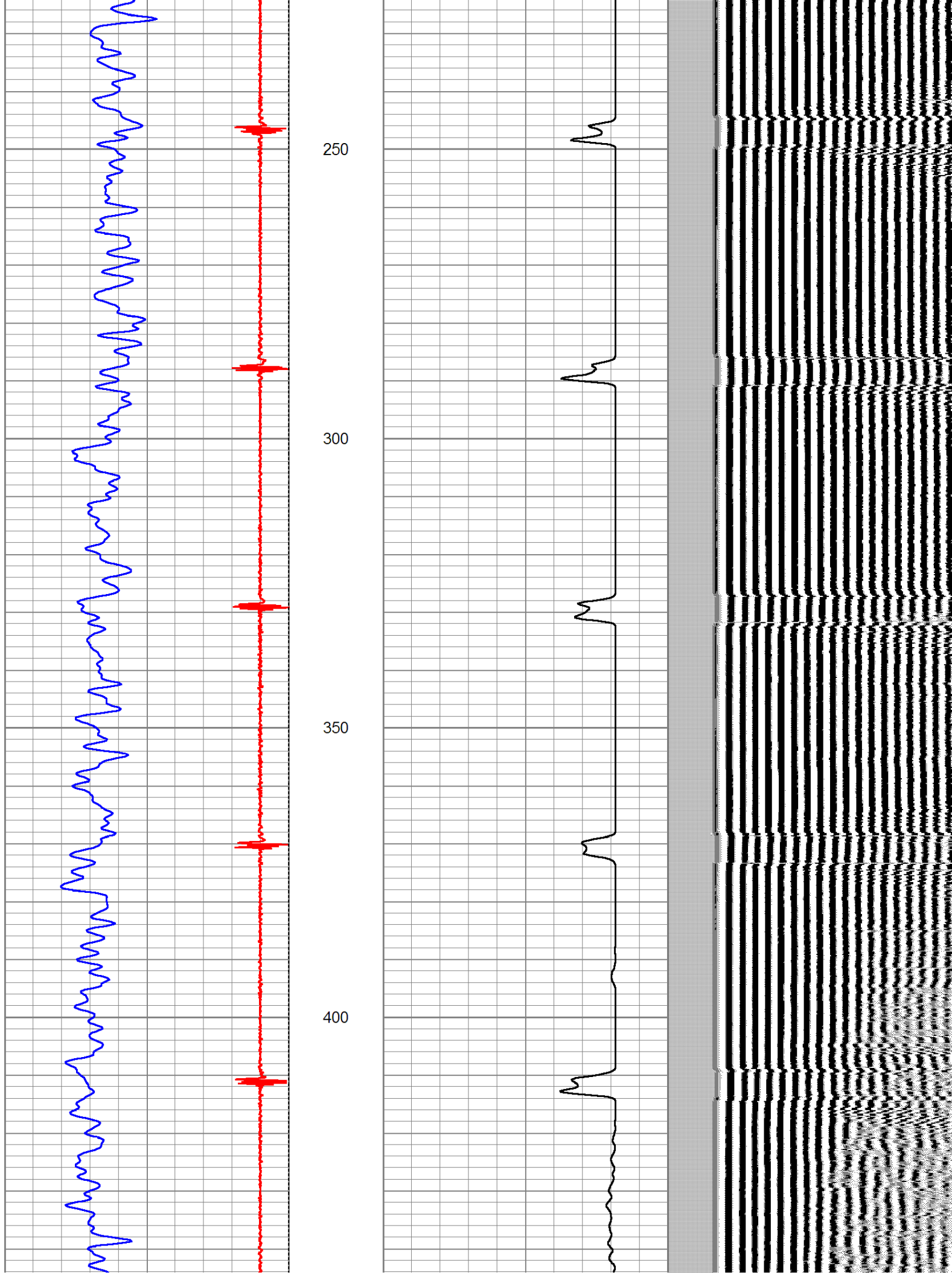


| Sensor | Offset (ft) | Schematic | Description       | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|-----------|-------------------|----------|---------|---------|
| CCL    | 19.31       |           | CCL-titan01 (01t) | 1.92     | 2.75    |         |

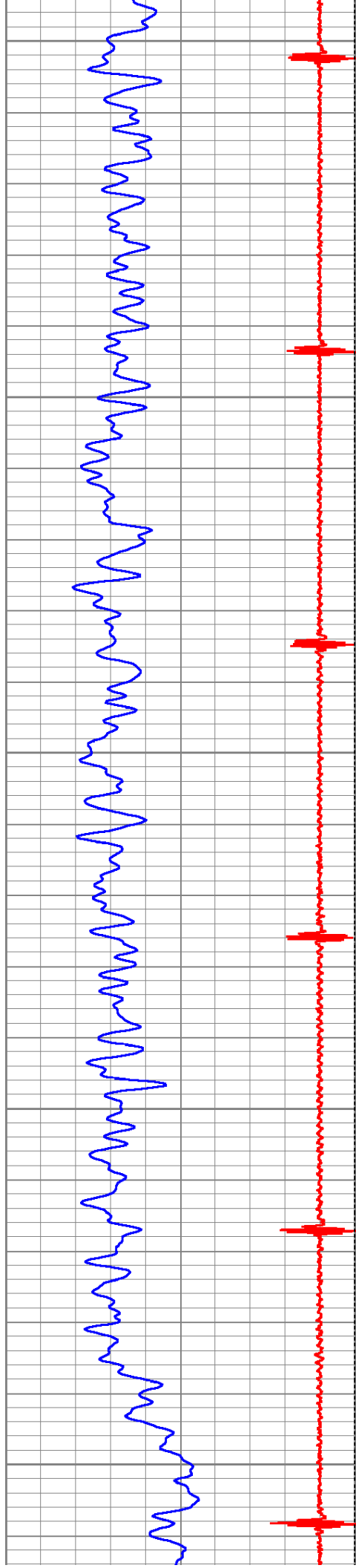
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|--|-------|--|--|------|------|--------|
|  |       |  |  |      |      |        |
|  |       |  | SDSCENT<br>Centralizer for testing       | 3.00 | 3.25 | 20.00  |
| WVF3   | 10.92 |  |  |      |      |        |
| WVF5   | 9.92  |  | CBL-Probe (050215)<br>2.75 digital probe | 8.75 | 2.75 | 106.50 |
|  |       |  |  |      |      |        |
|  |       |  | SDSCENT<br>Centralizer for testing       | 3.00 | 3.25 | 20.00  |
|  |       |  |  |      |      |        |
| GR   | 1.13  |  | GR-probe 2.75 (51013)                    | 3.67 | 2.75 | 100.00 |
| Dataset: peterson cx gh 30-40 d.db: field/well/run1/pass3<br>Total Length: 20.33 ft<br>Total Weight: 246.50 lb<br>O.D. 3.25 in |       |  |  |      |      |        |

|   |                  |     |            |   |                          |     |     |                  |      |
|---|------------------|-----|------------|---|--------------------------|-----|-----|------------------|------|
| 9 | Collar Locator   | -1  | LTEN       | 0 | Amplified Amplitude (mV) | 10  | 200 | Variable Density | 1200 |
| 0 | Gamma Ray (GAPI) | 200 | 0 (lb)2000 | 0 | Amplitude (mV)           | 100 |     |                  |      |









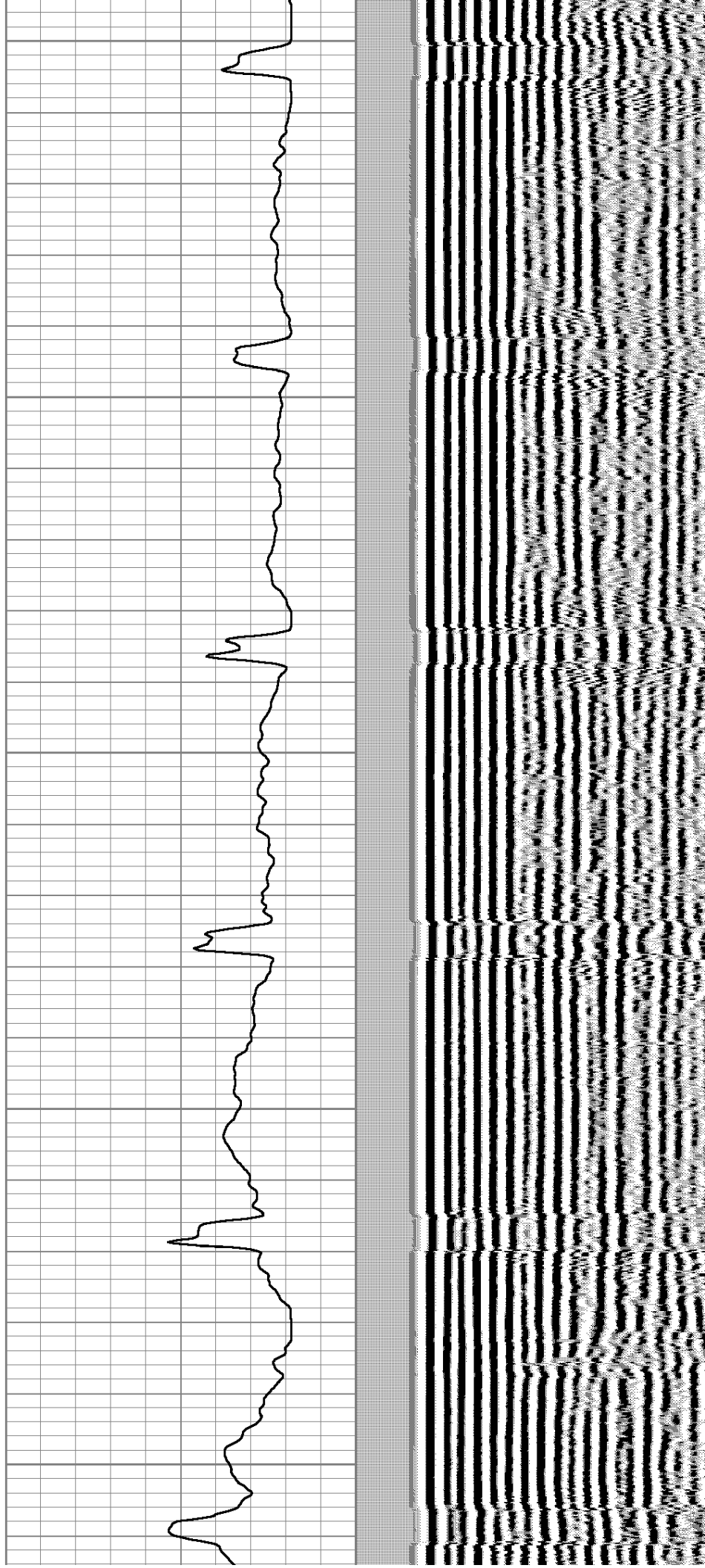
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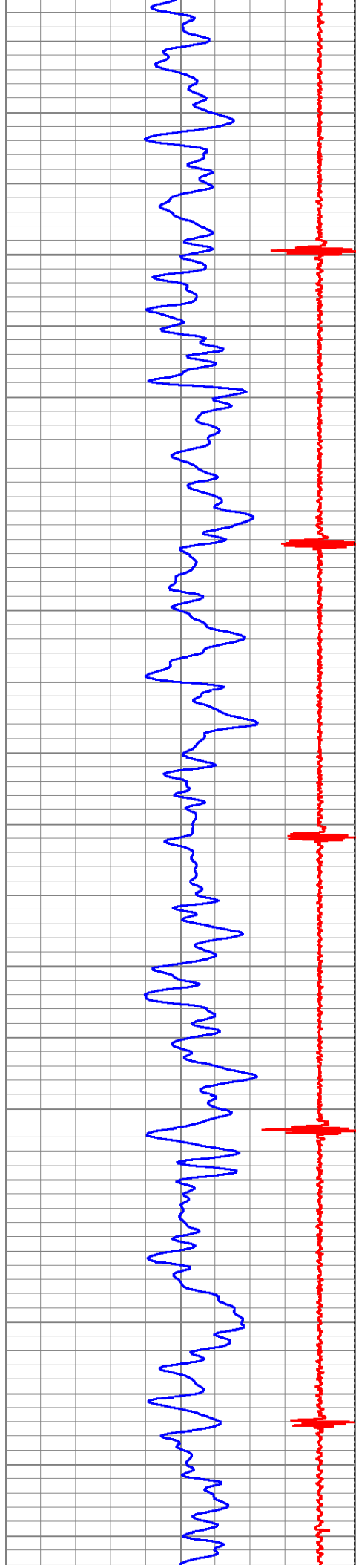
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600

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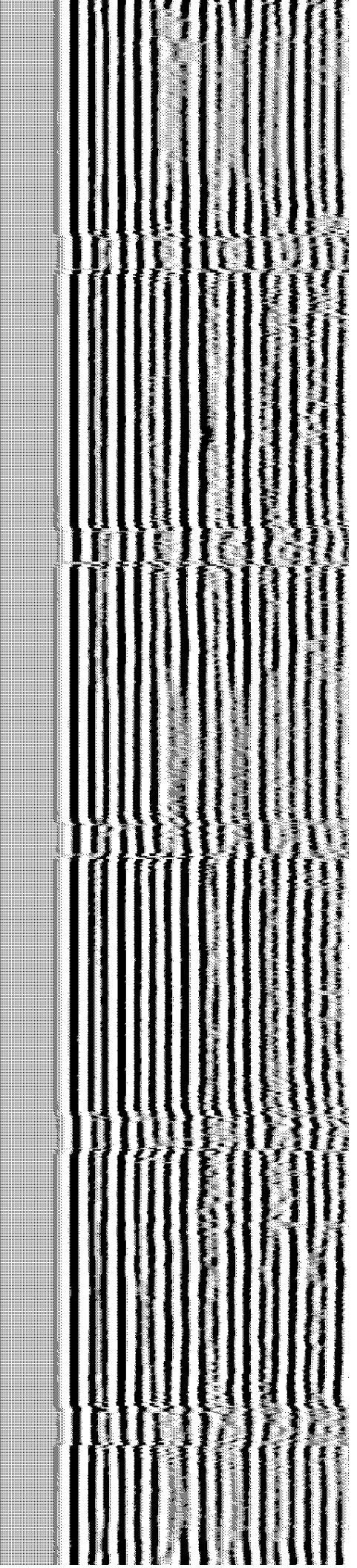
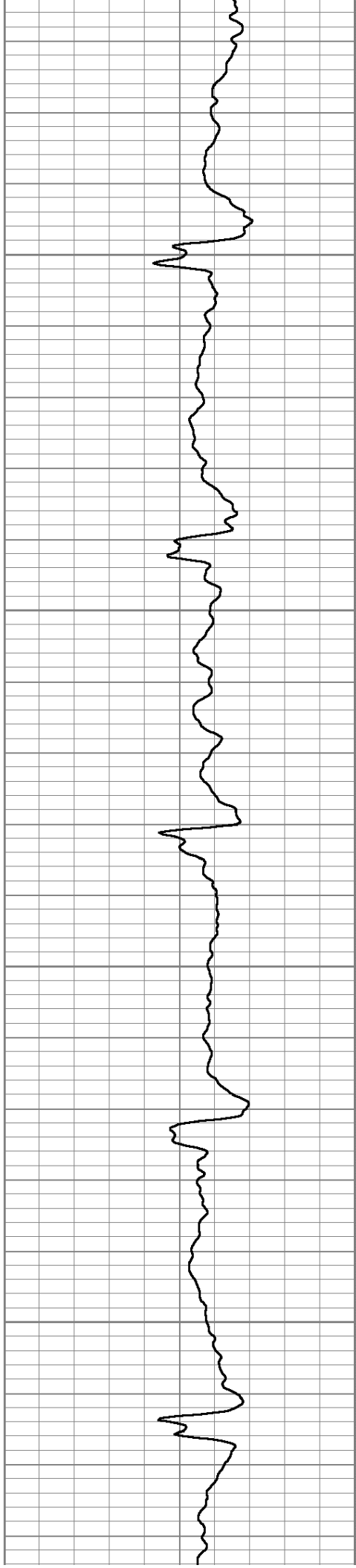


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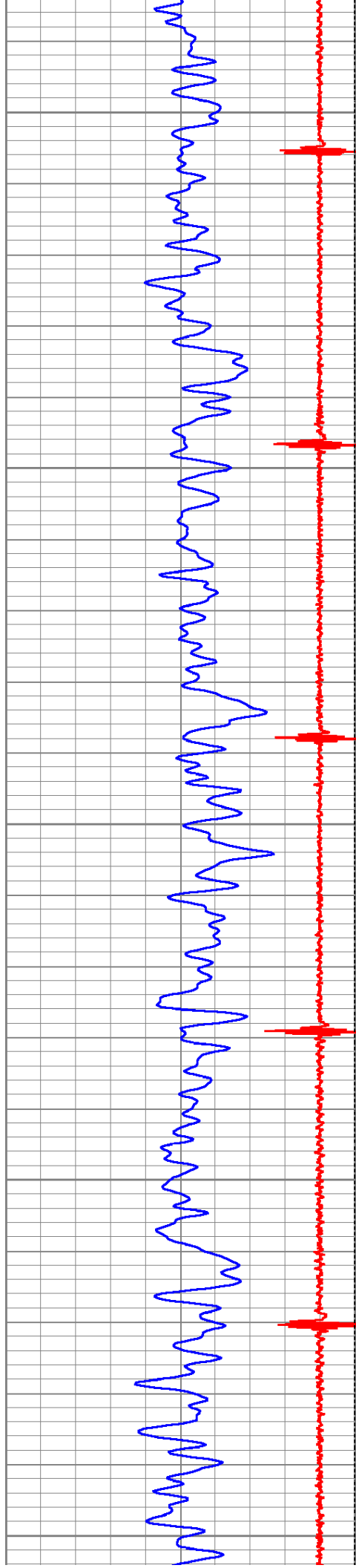
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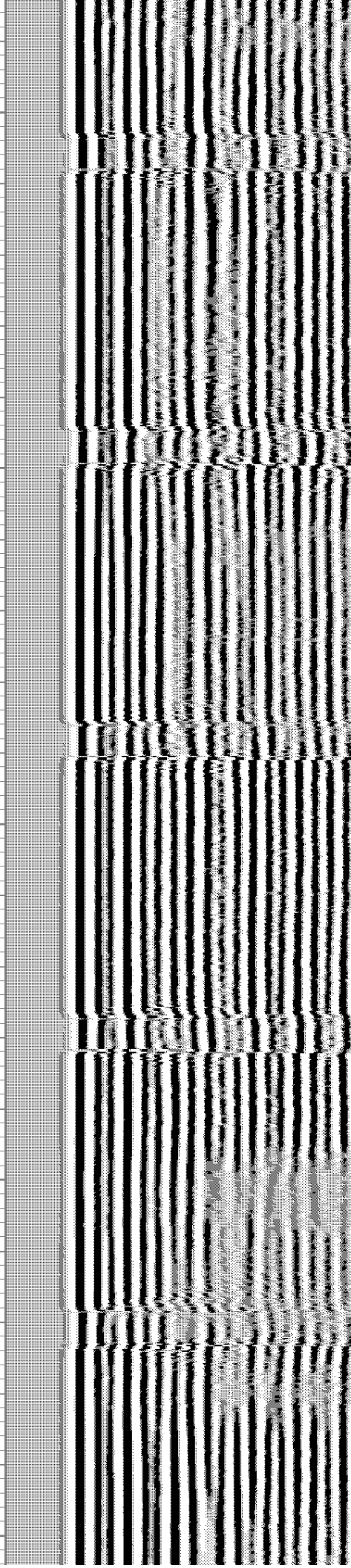
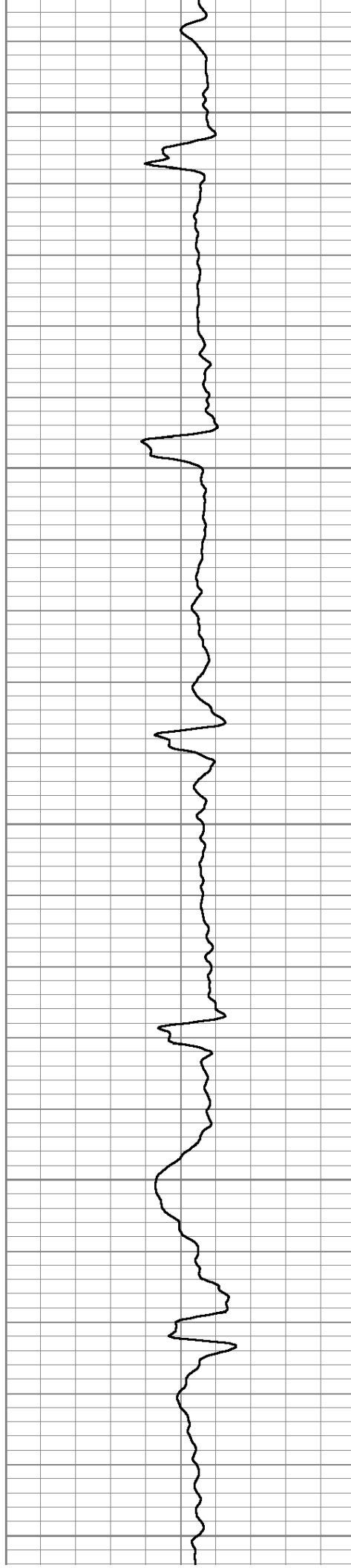
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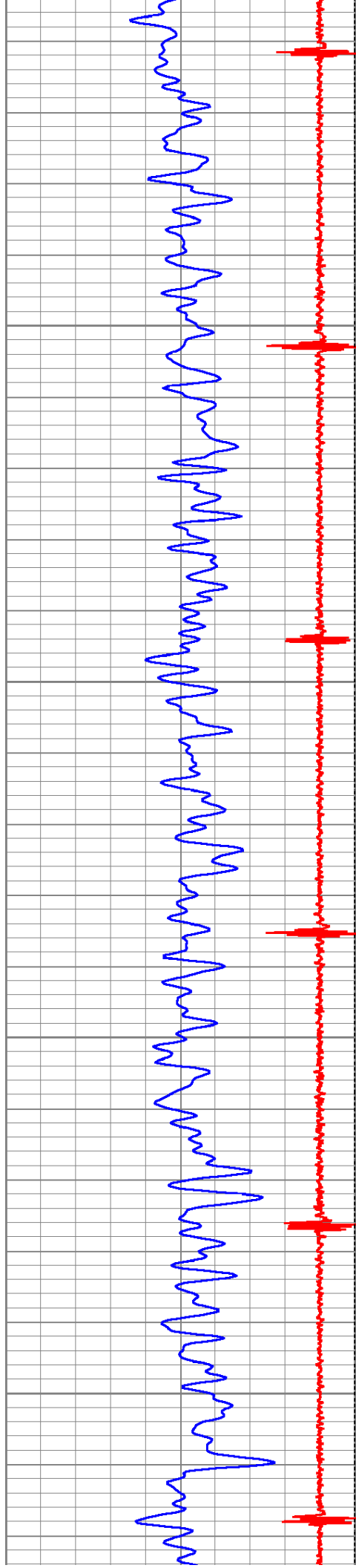
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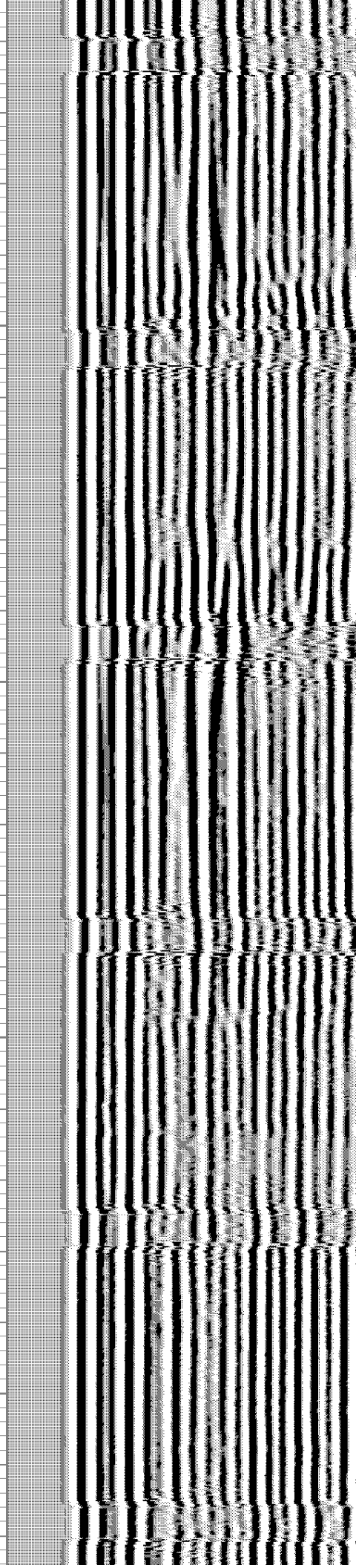
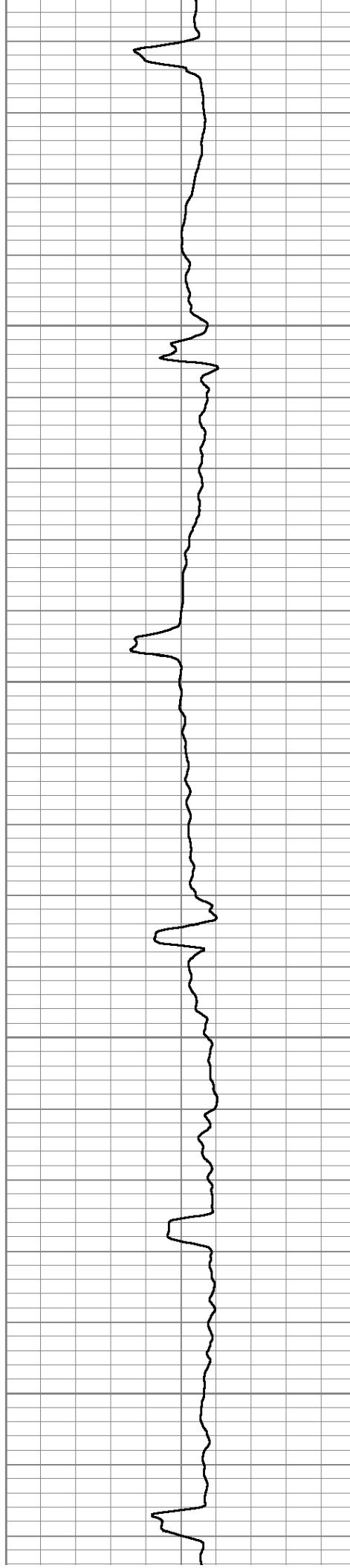


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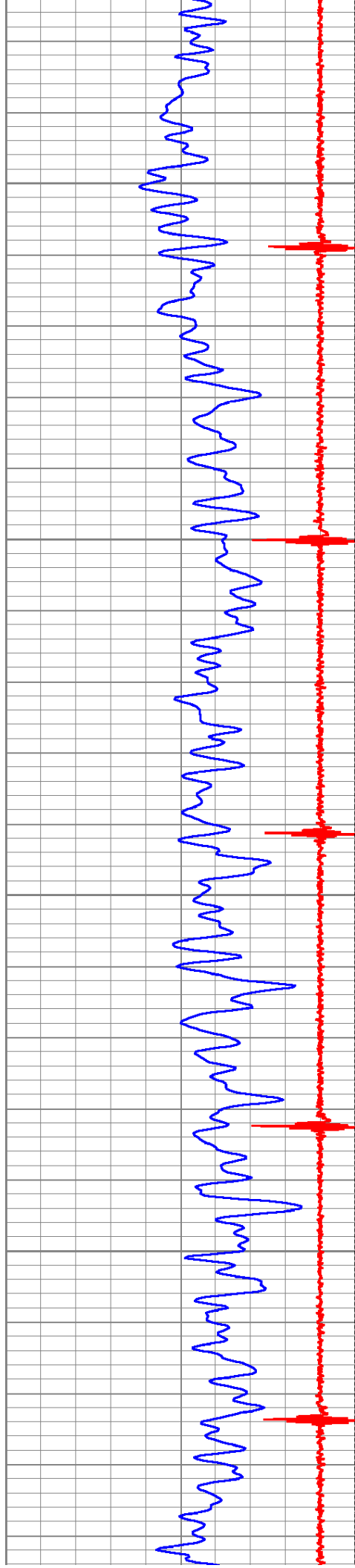
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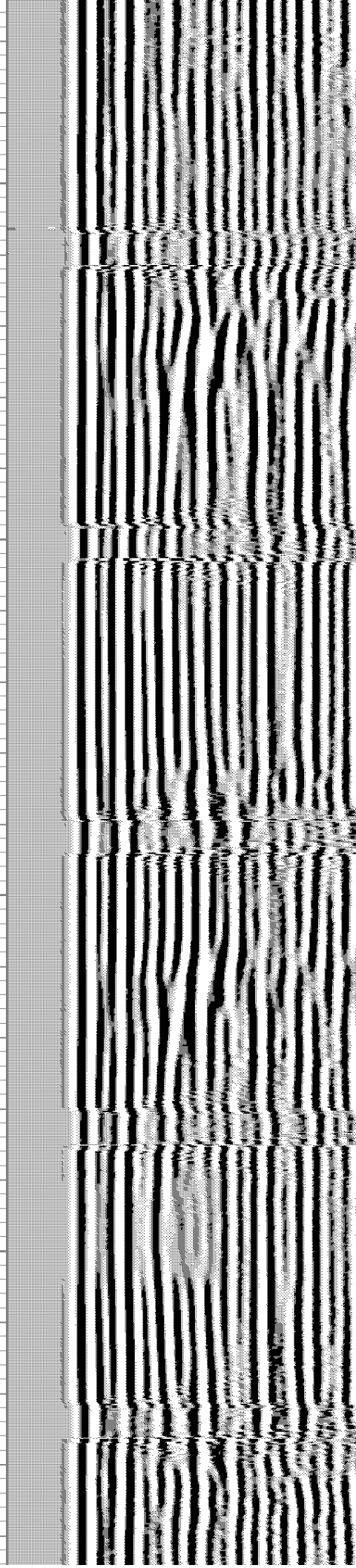
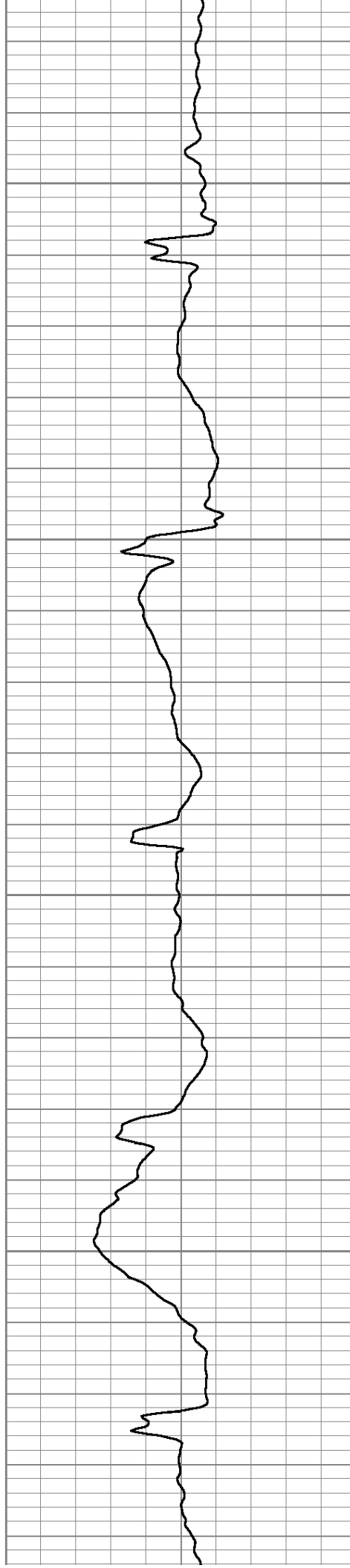


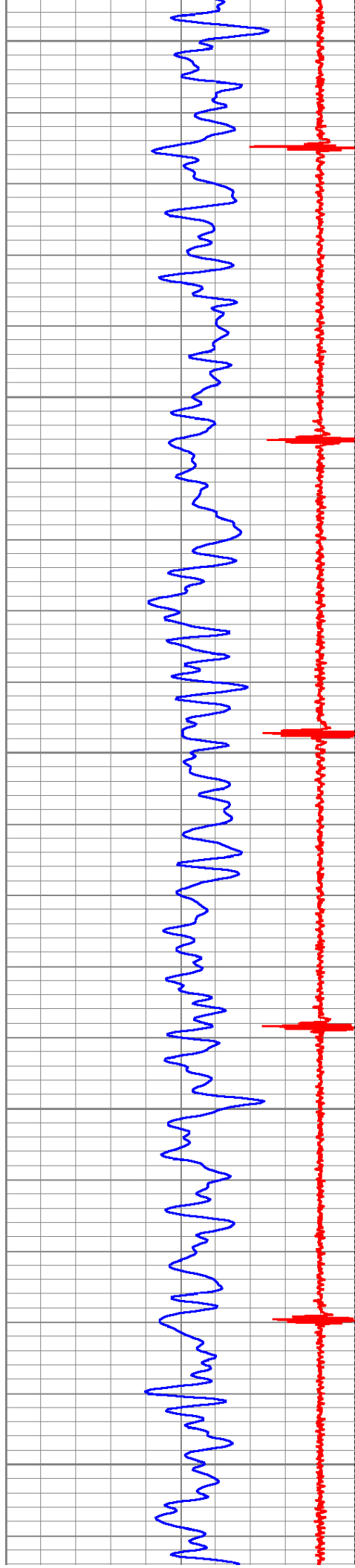
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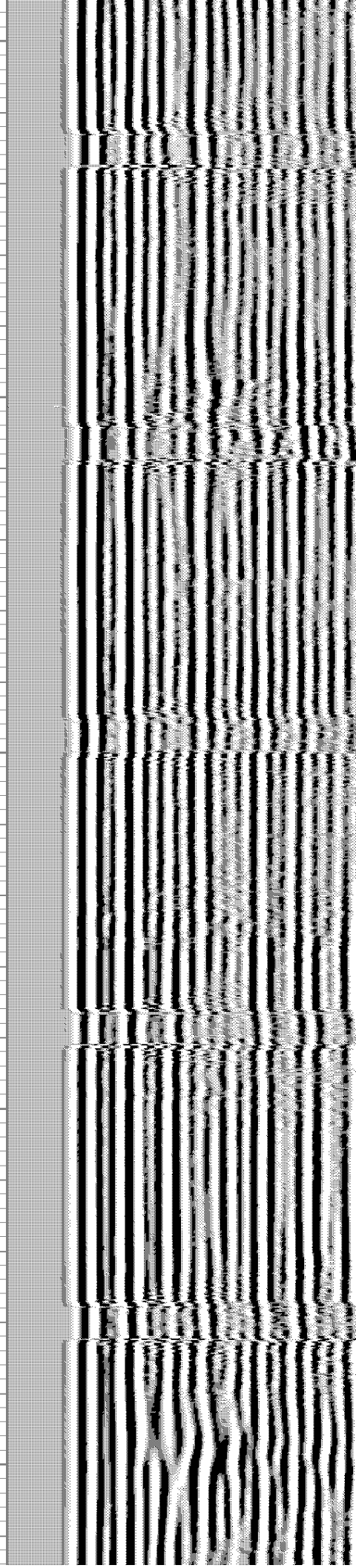
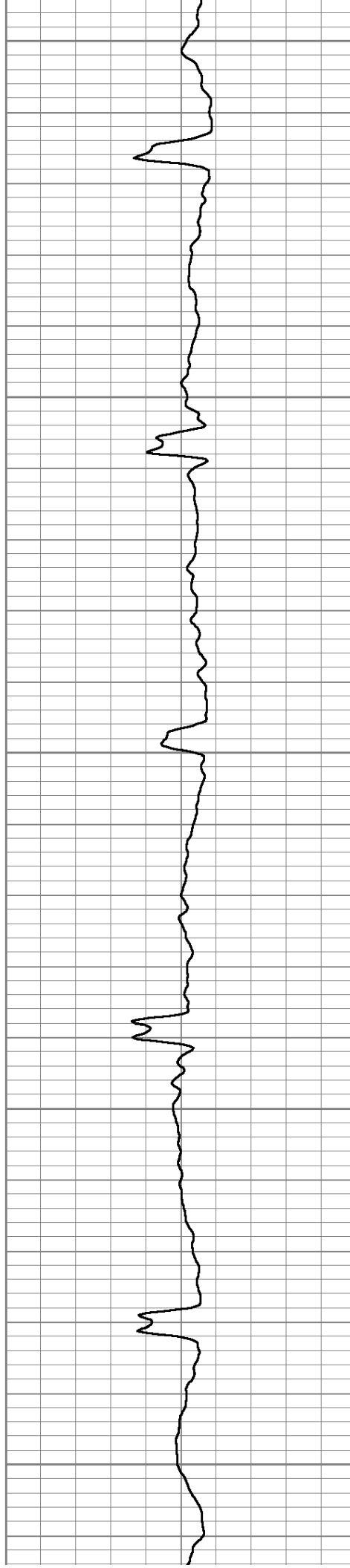
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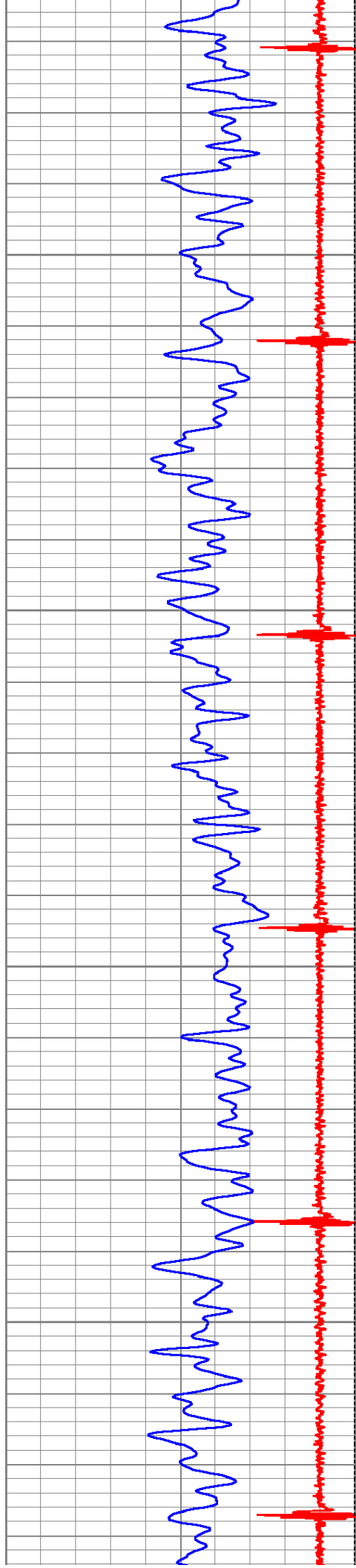
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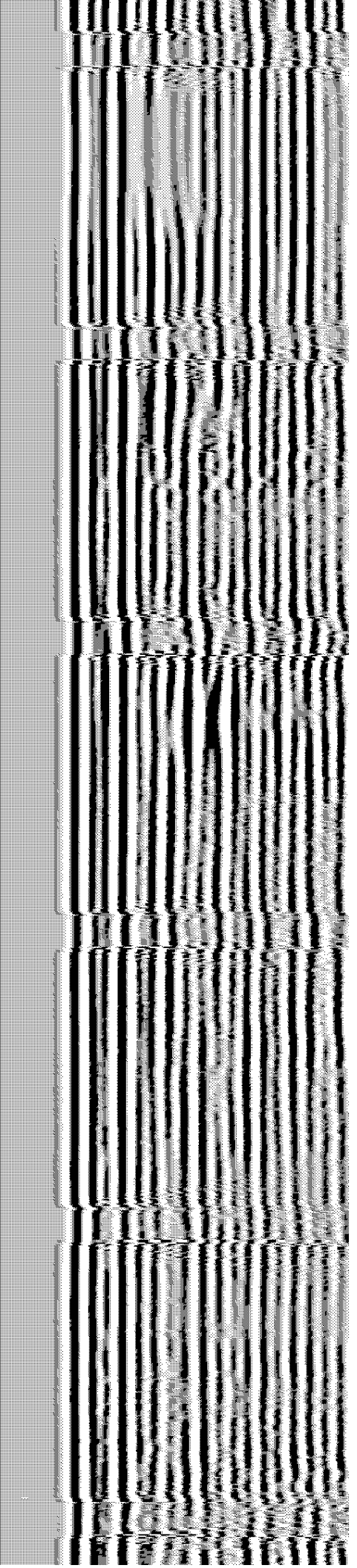
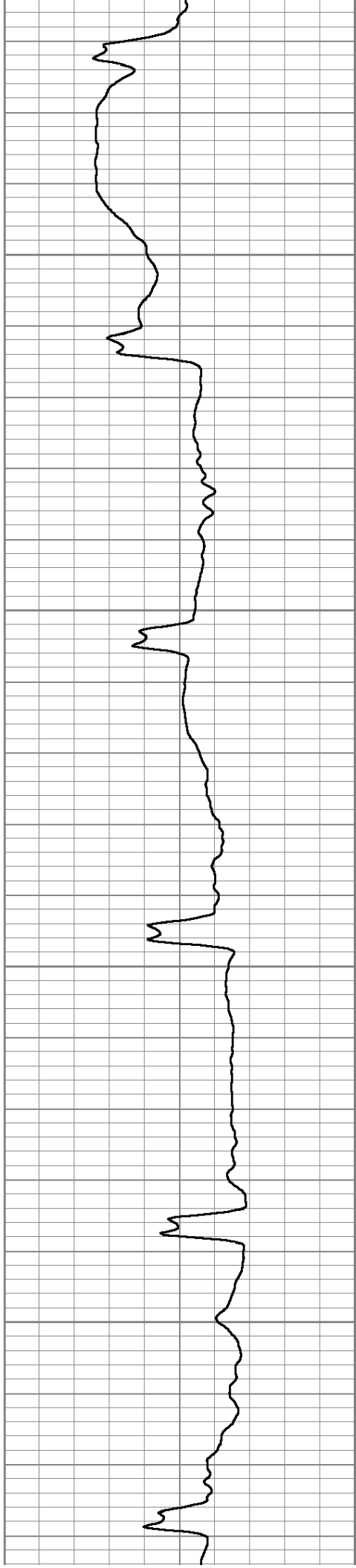


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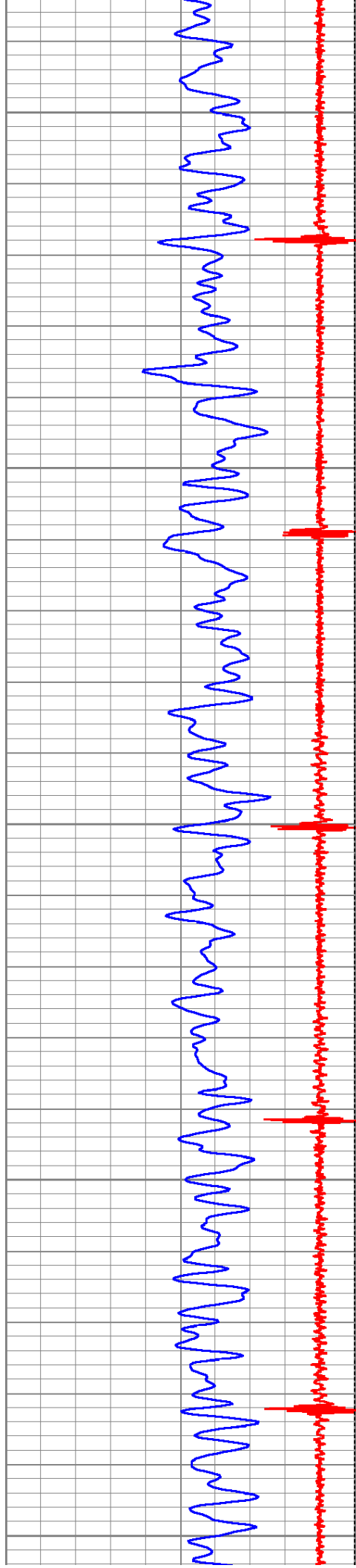
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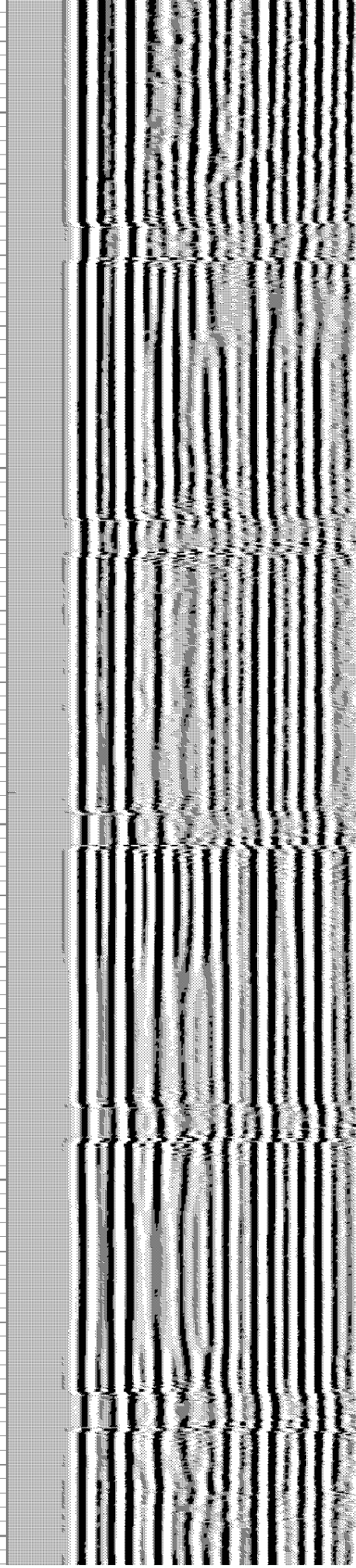
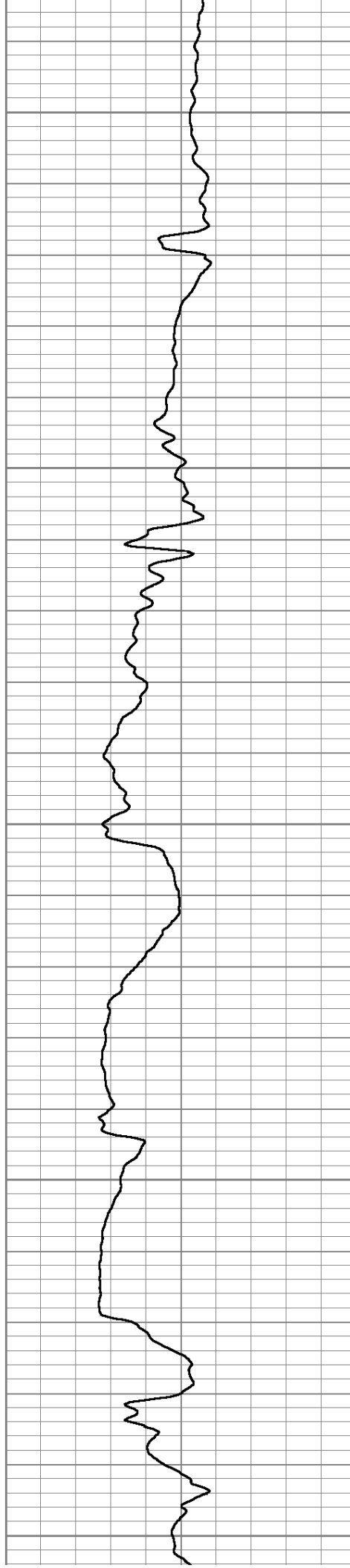
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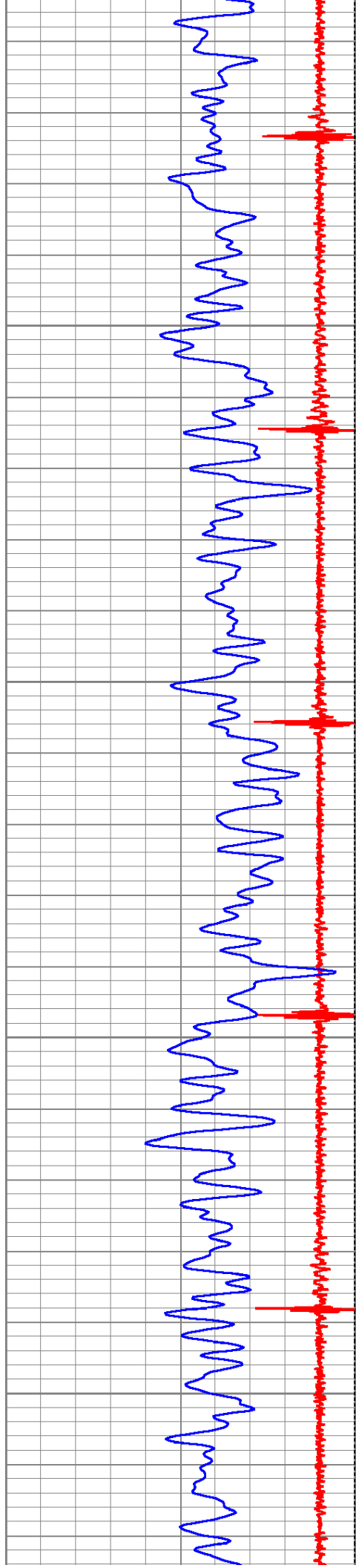
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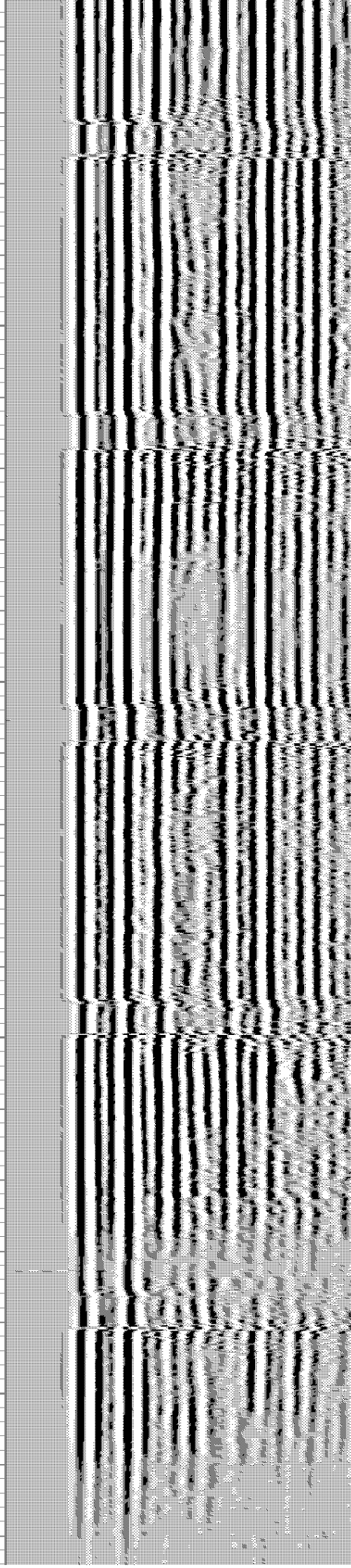
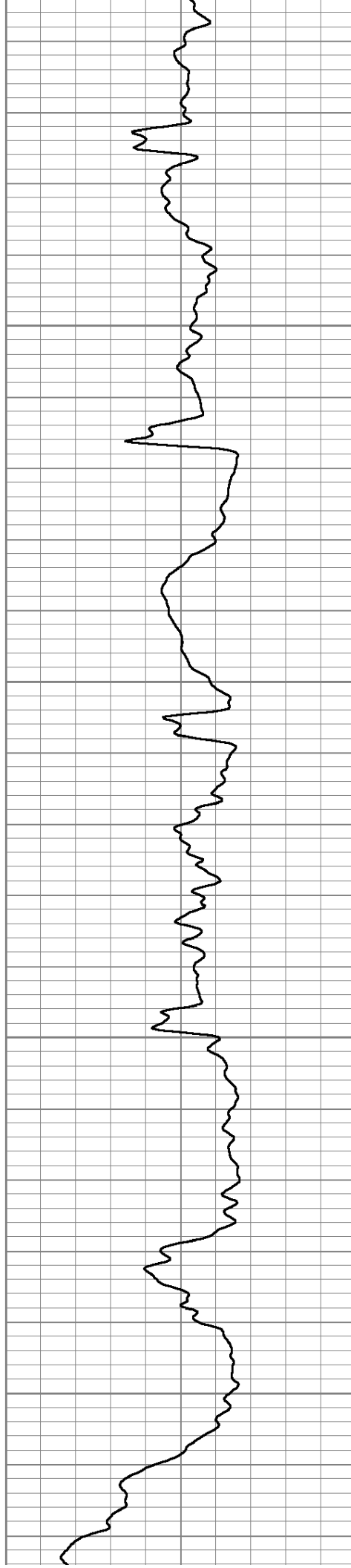


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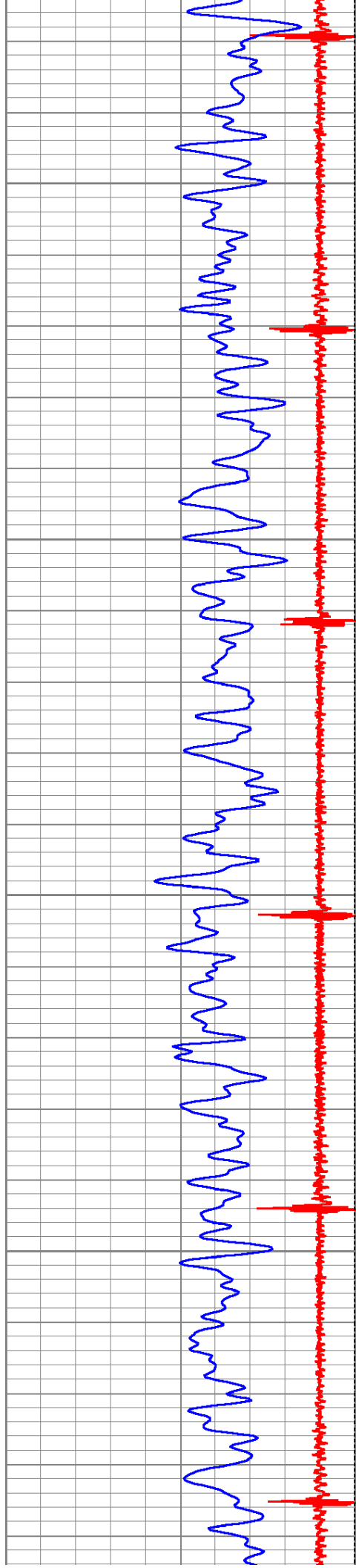
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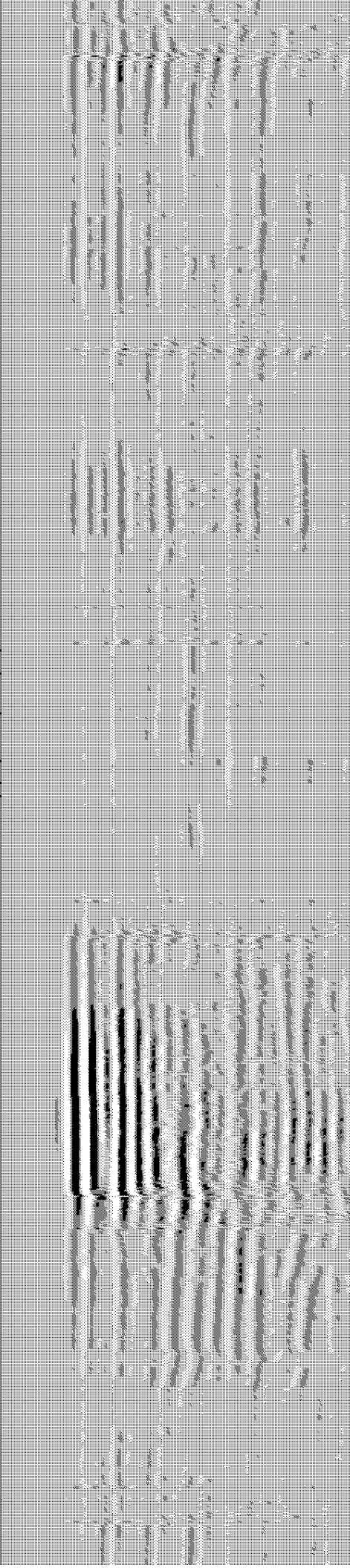
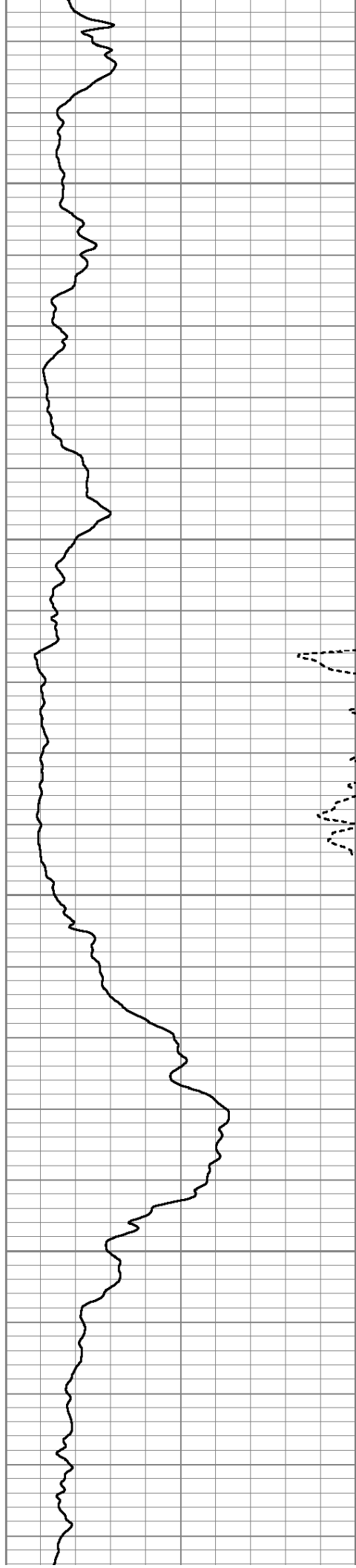


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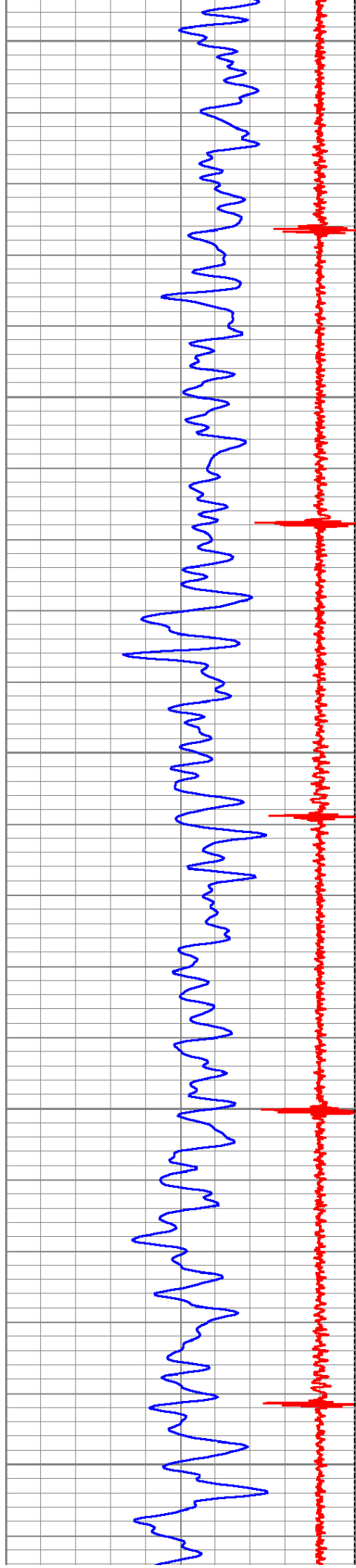
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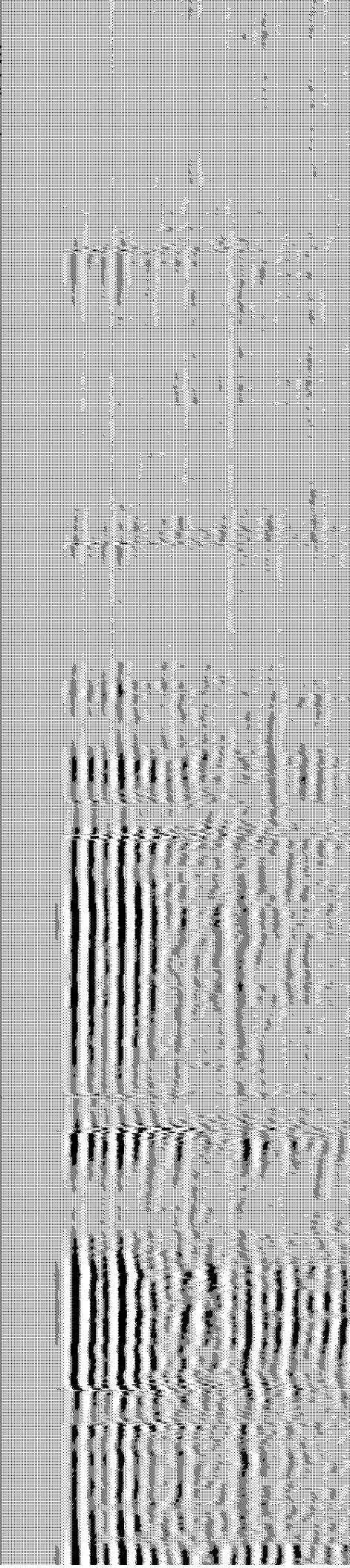
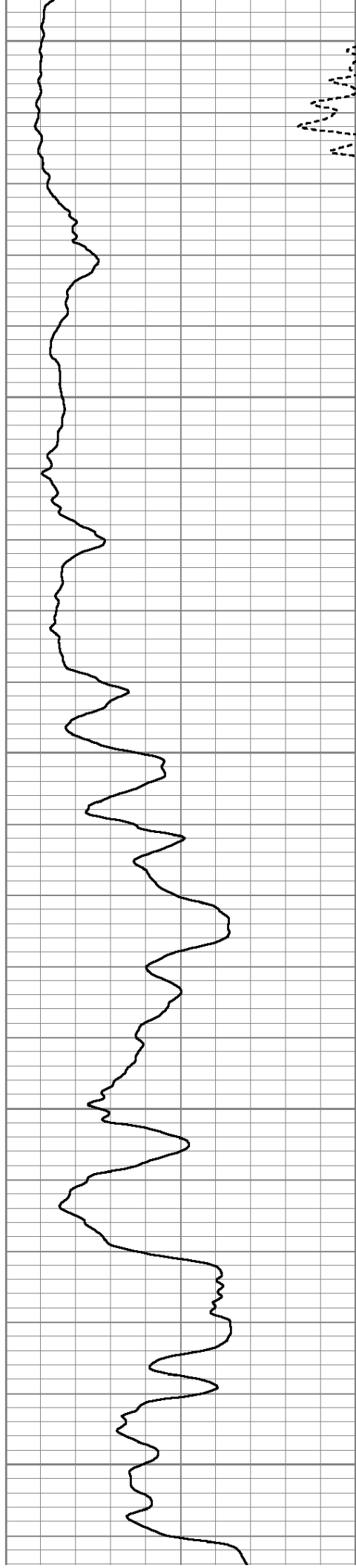
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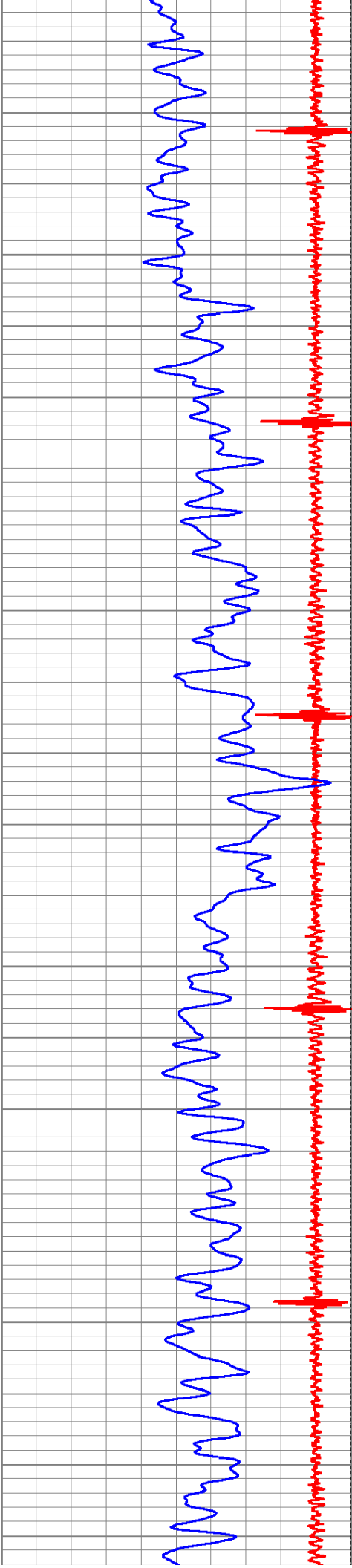
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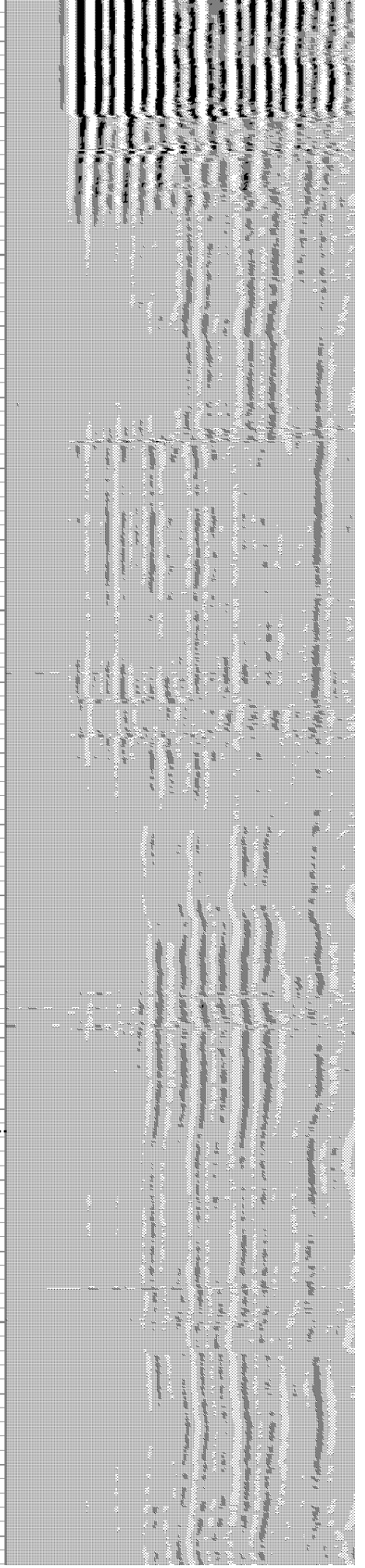
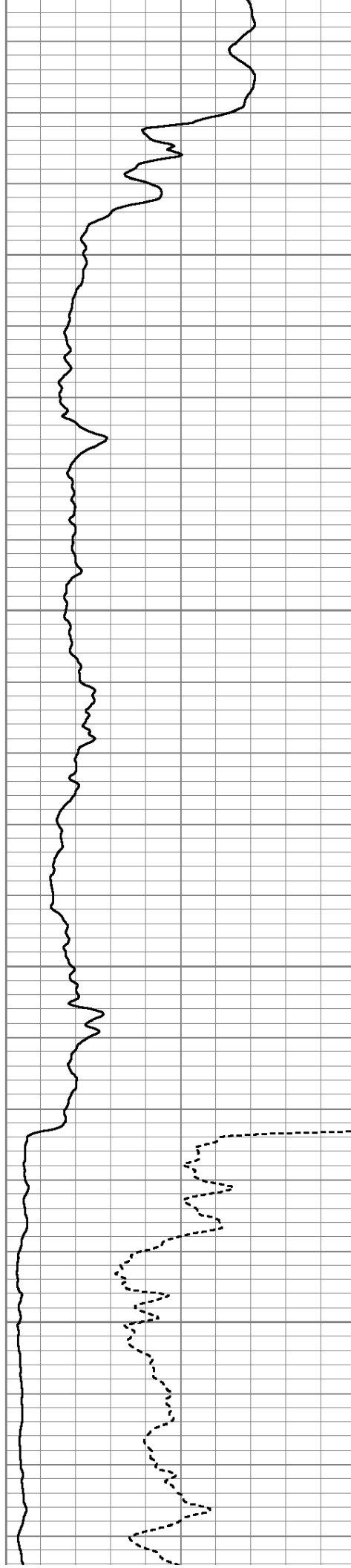


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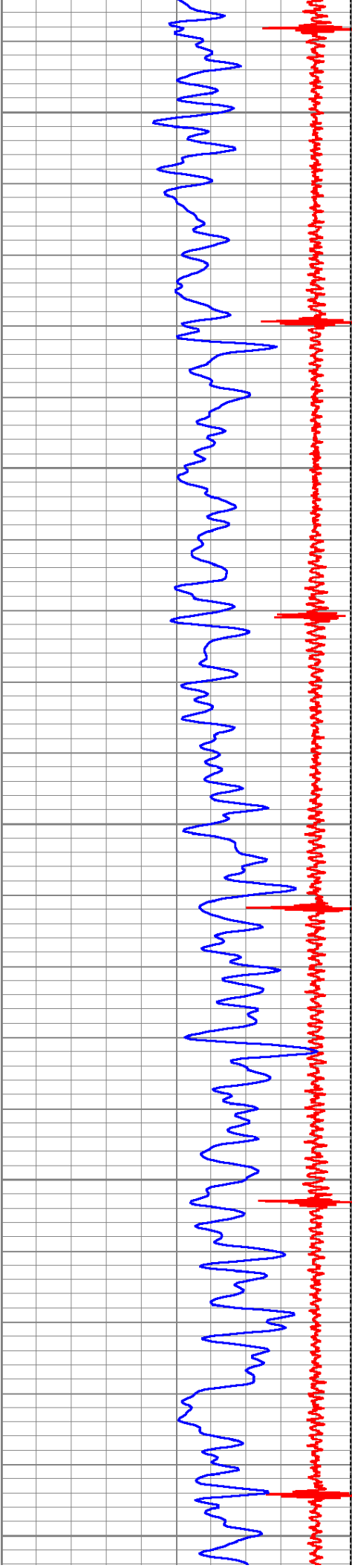
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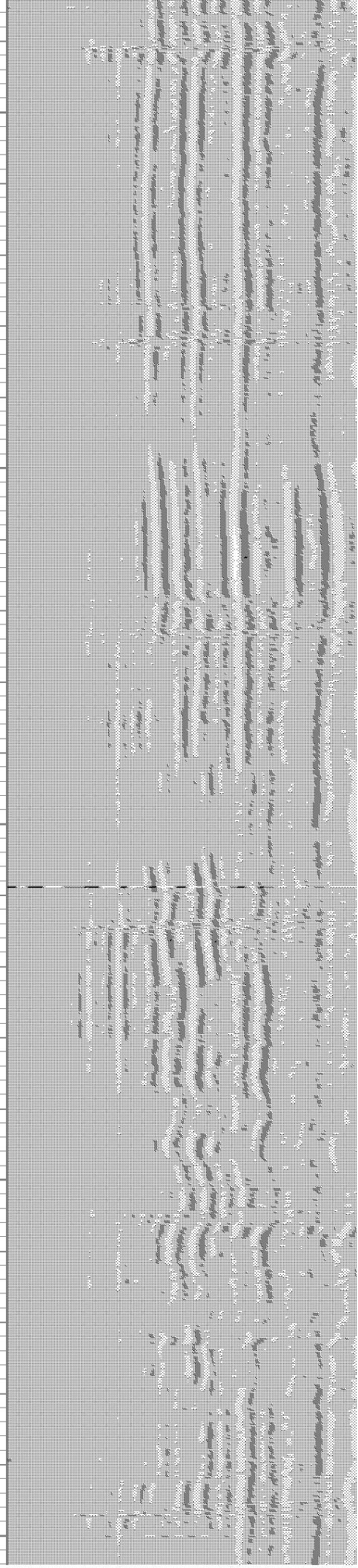
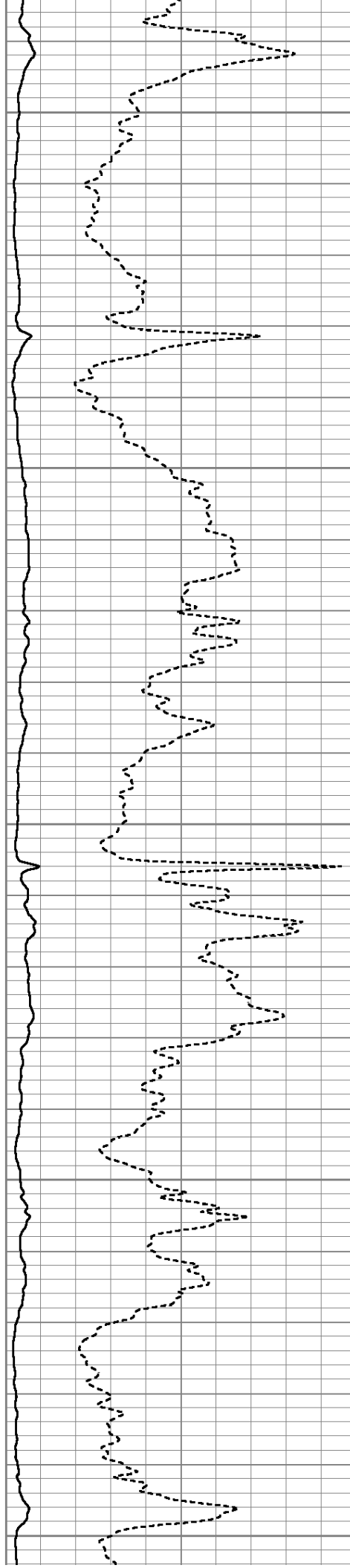
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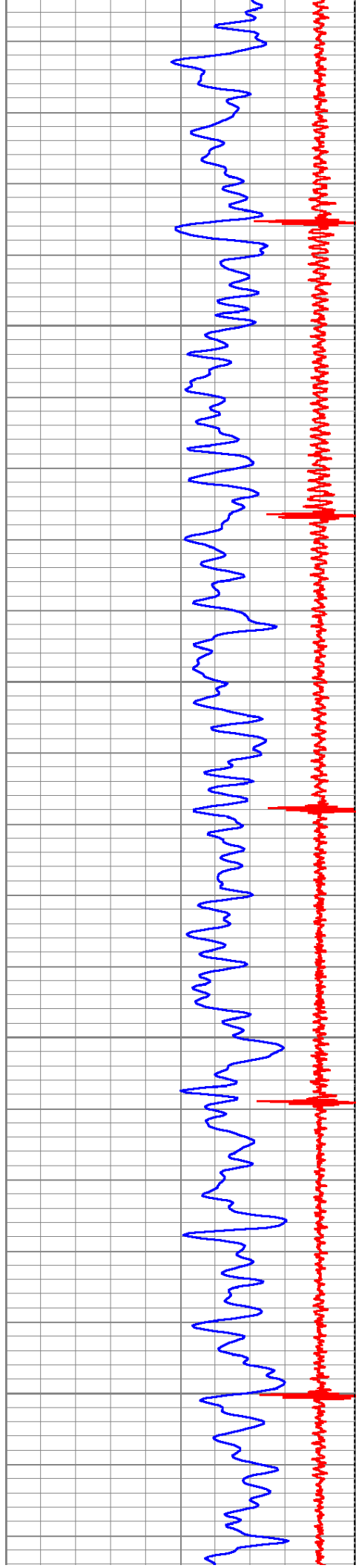
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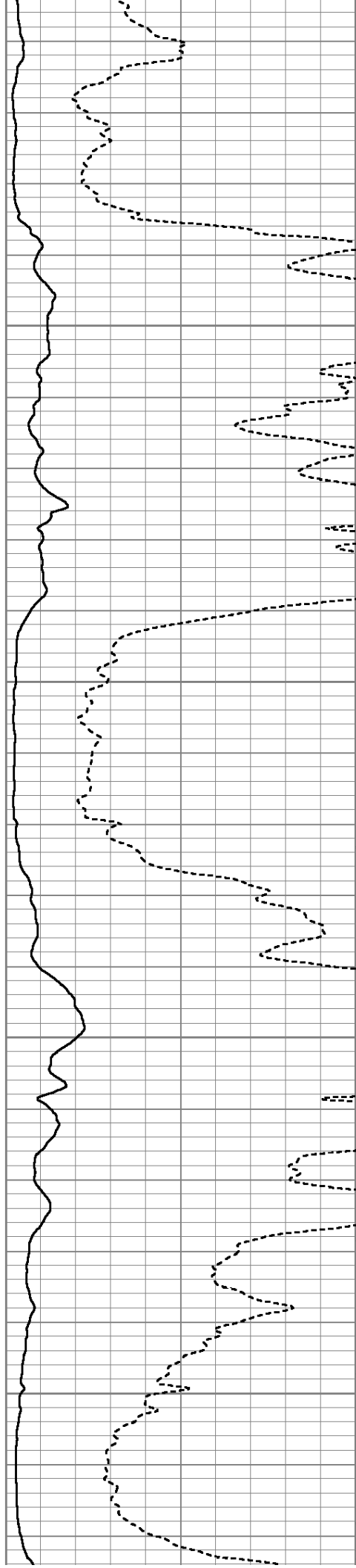


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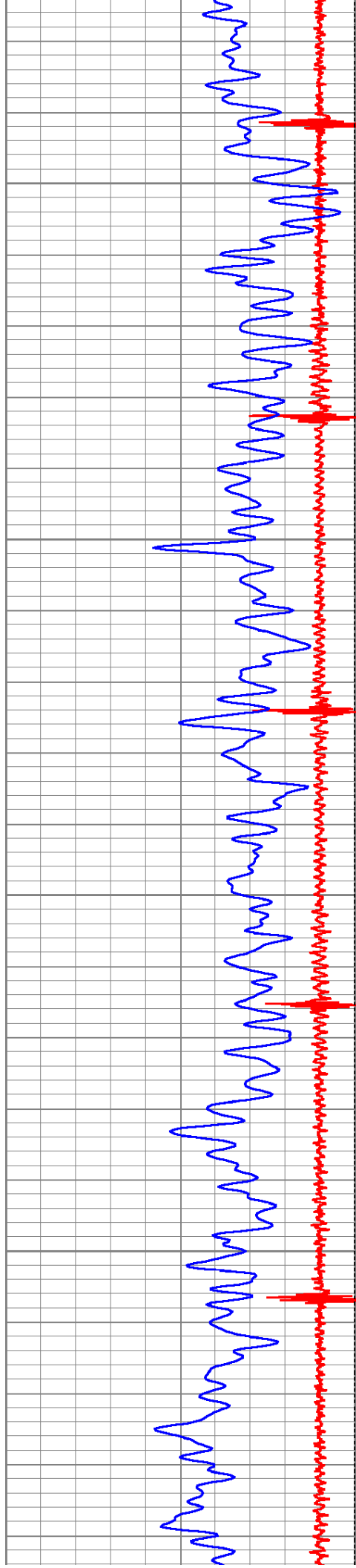
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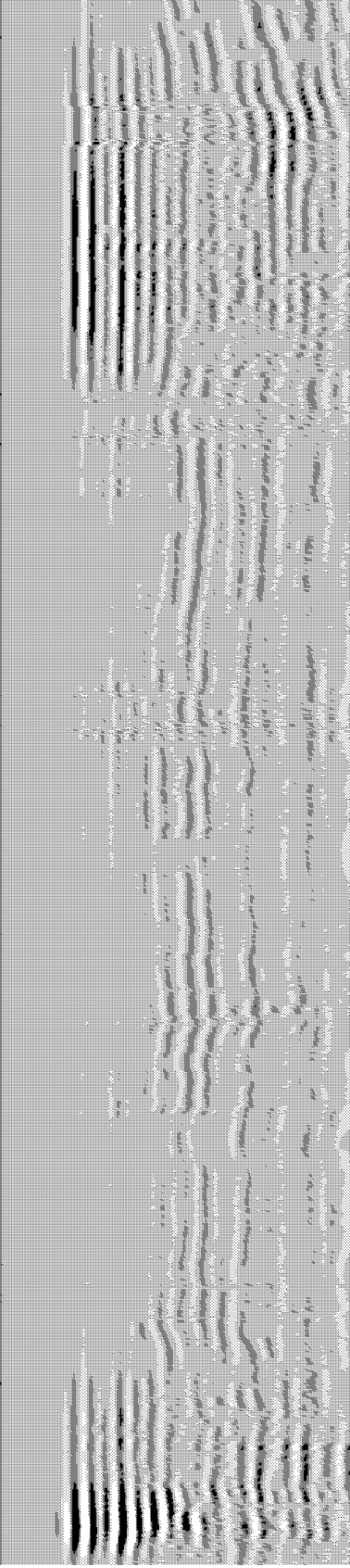
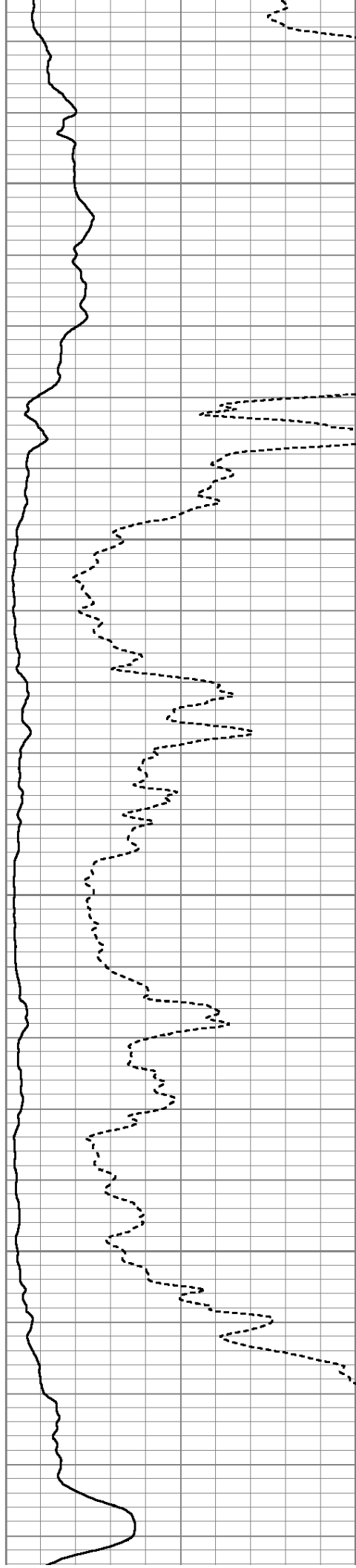


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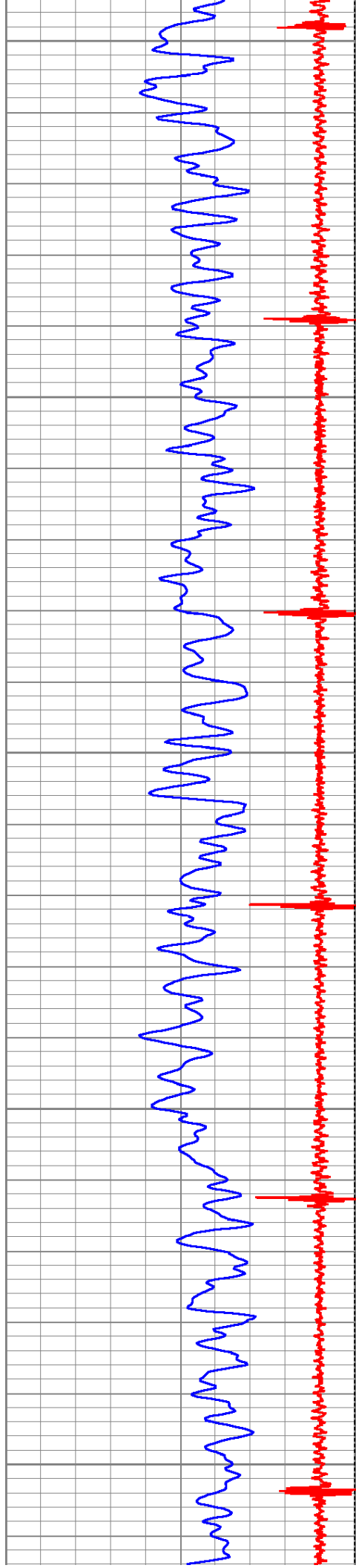
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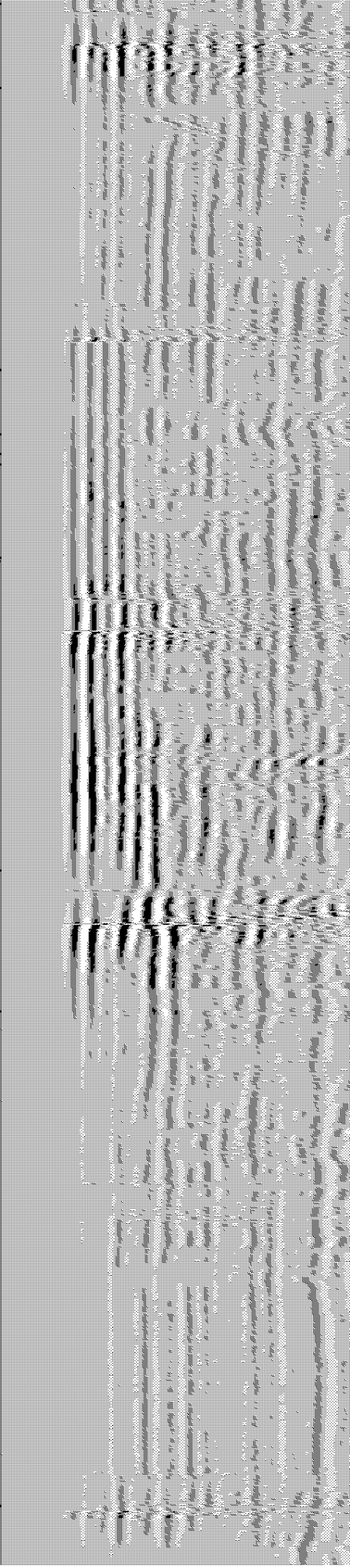
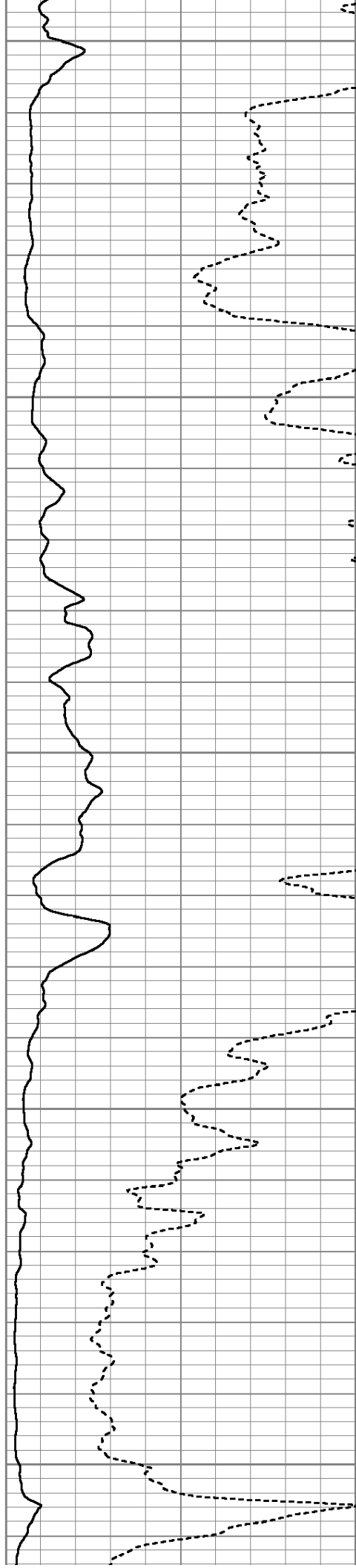
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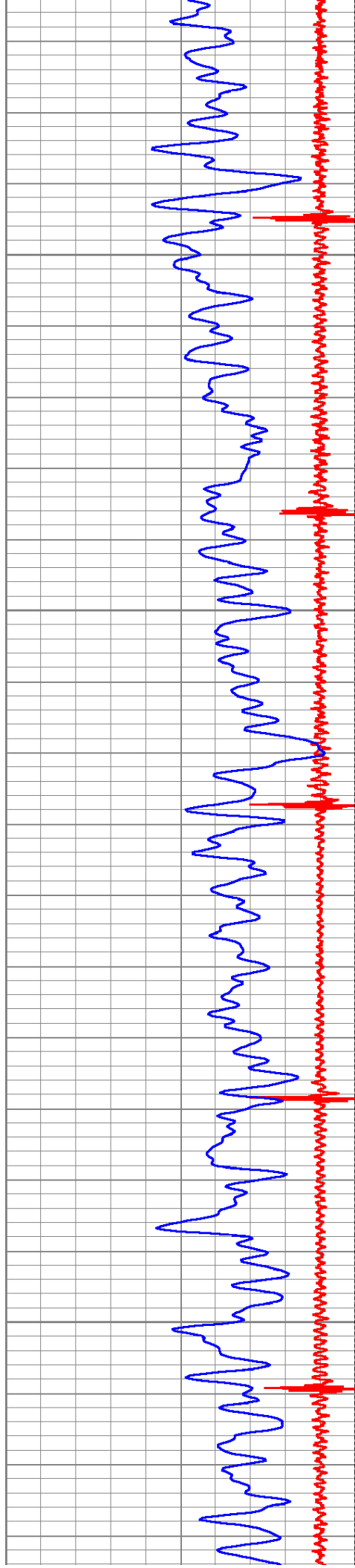
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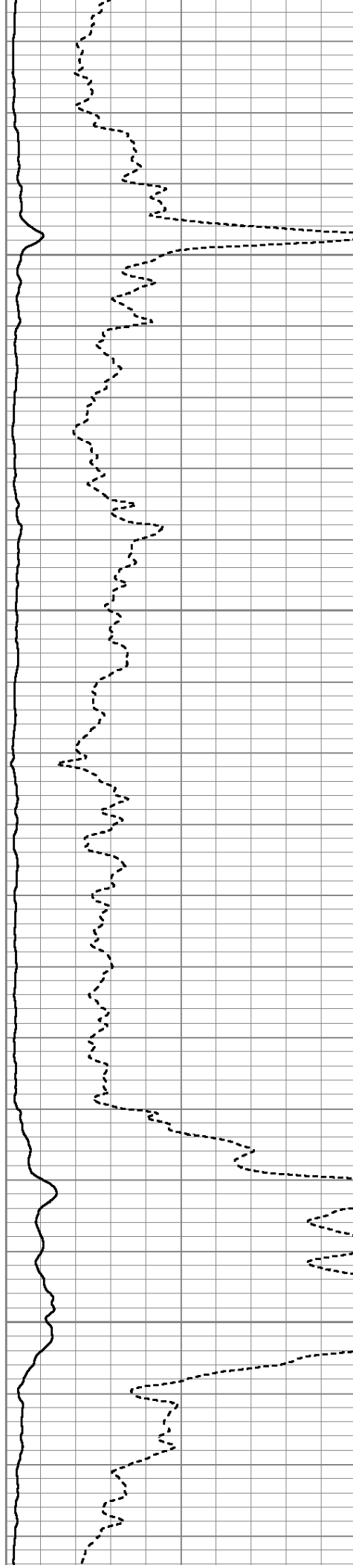


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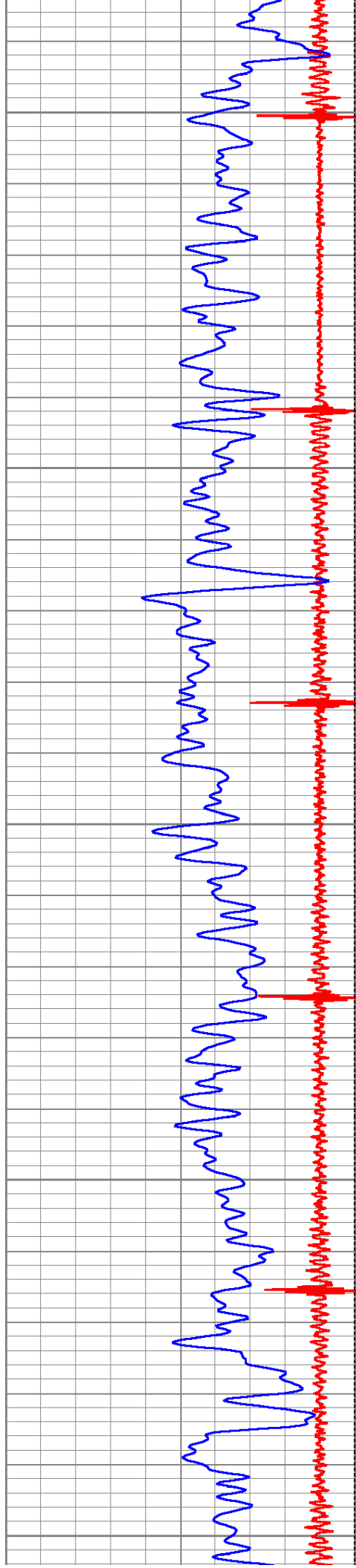
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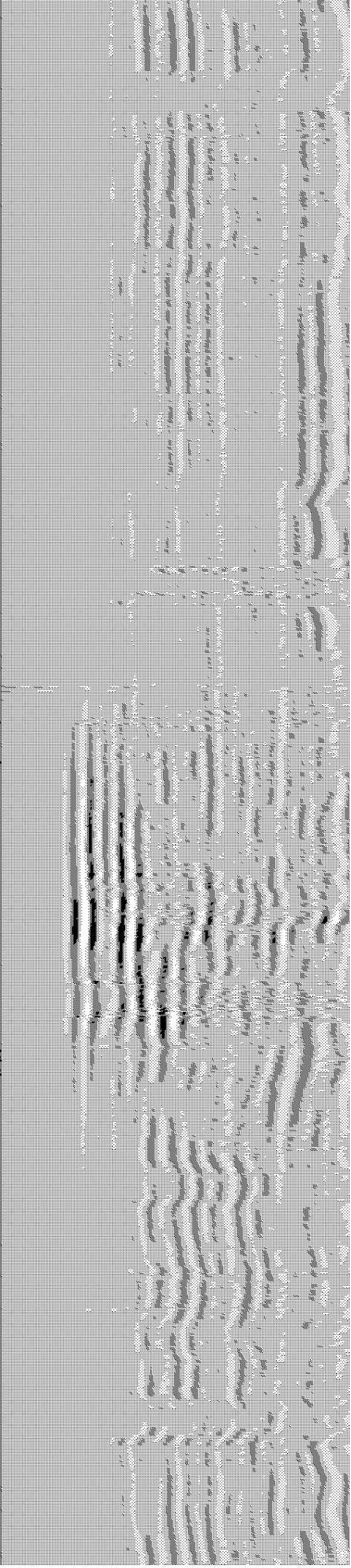
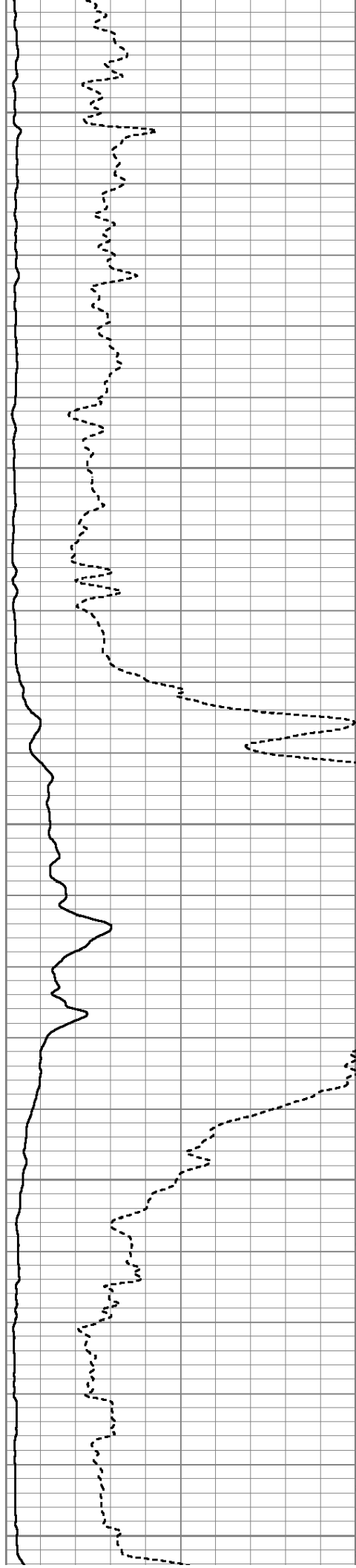
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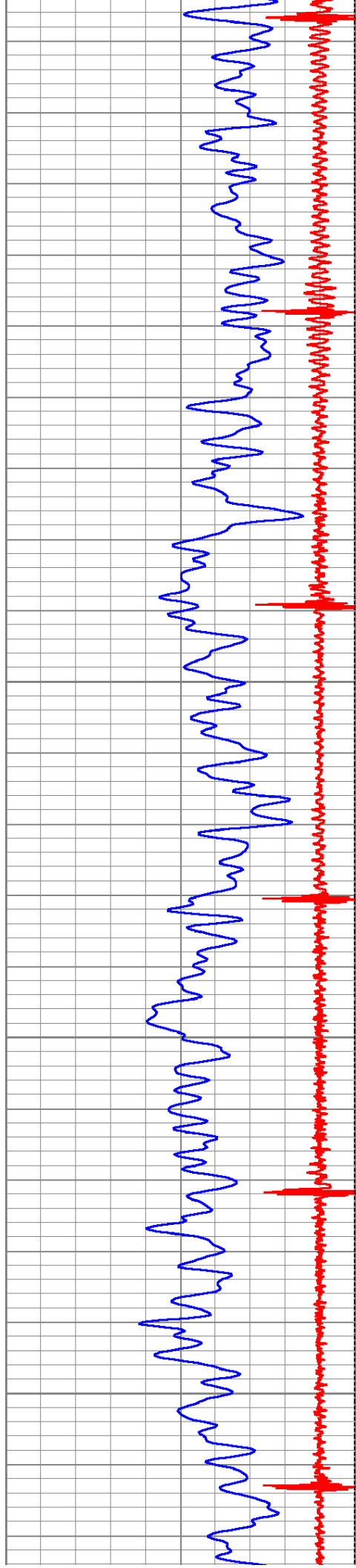
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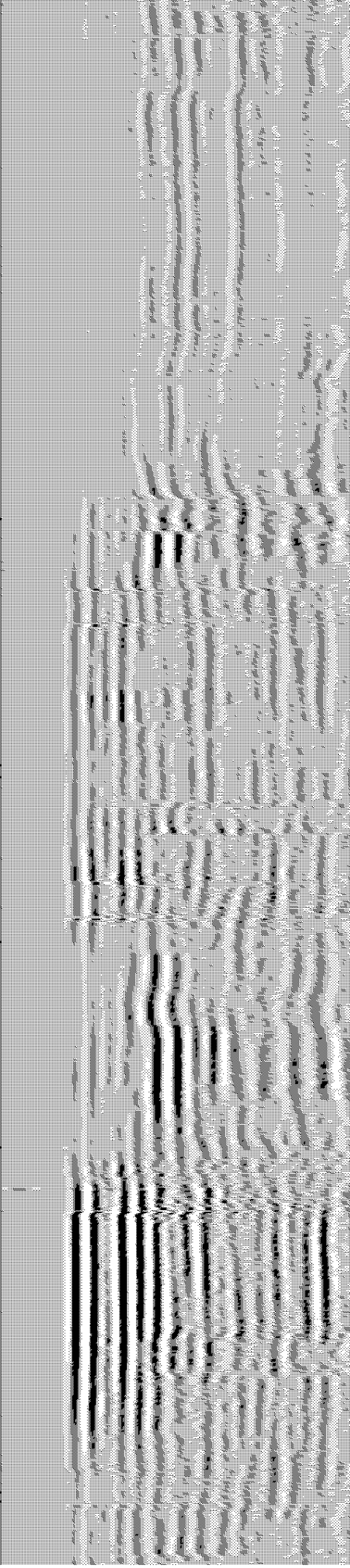
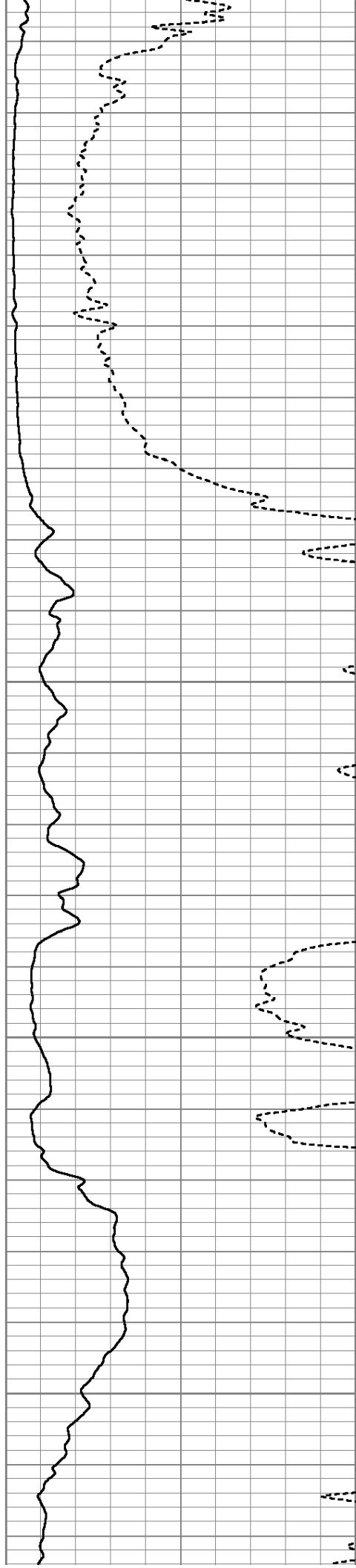


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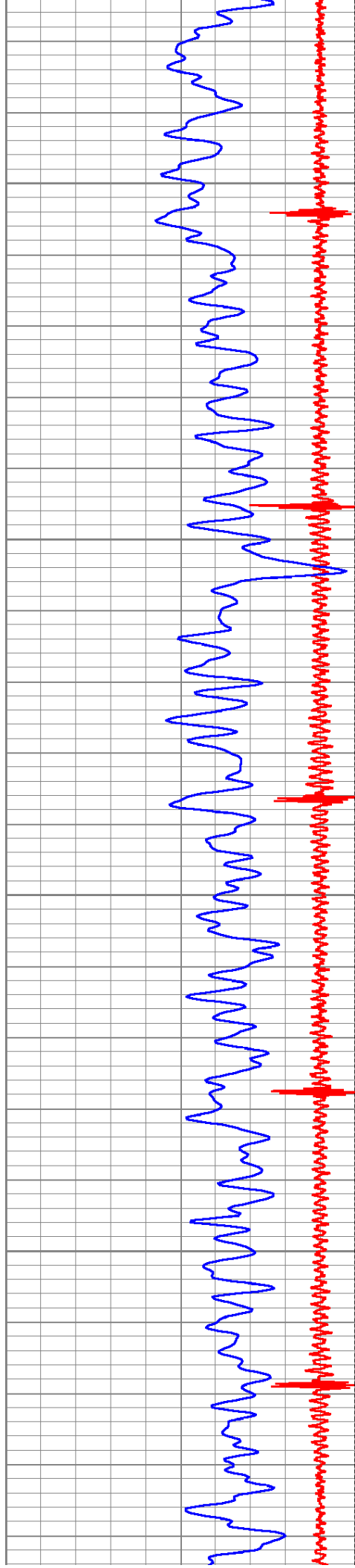
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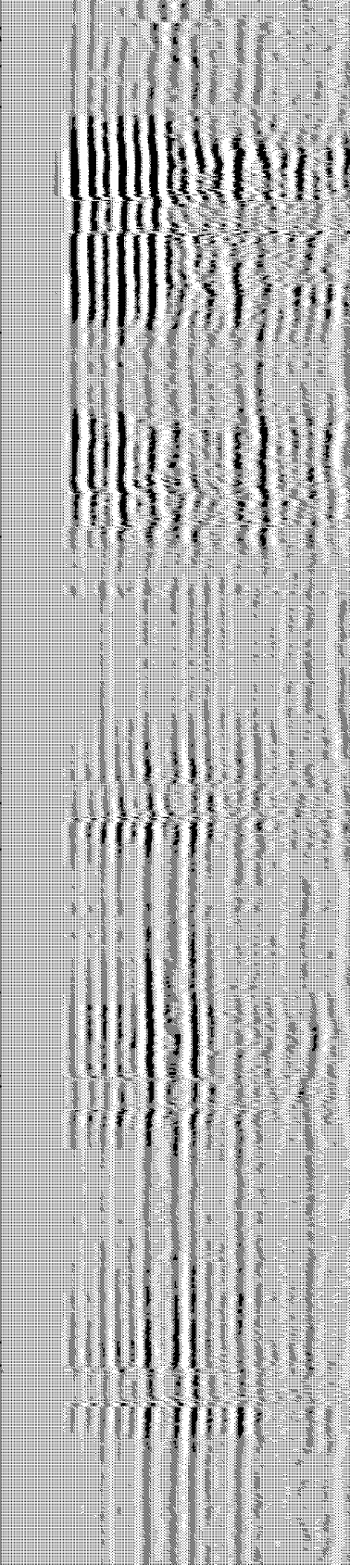
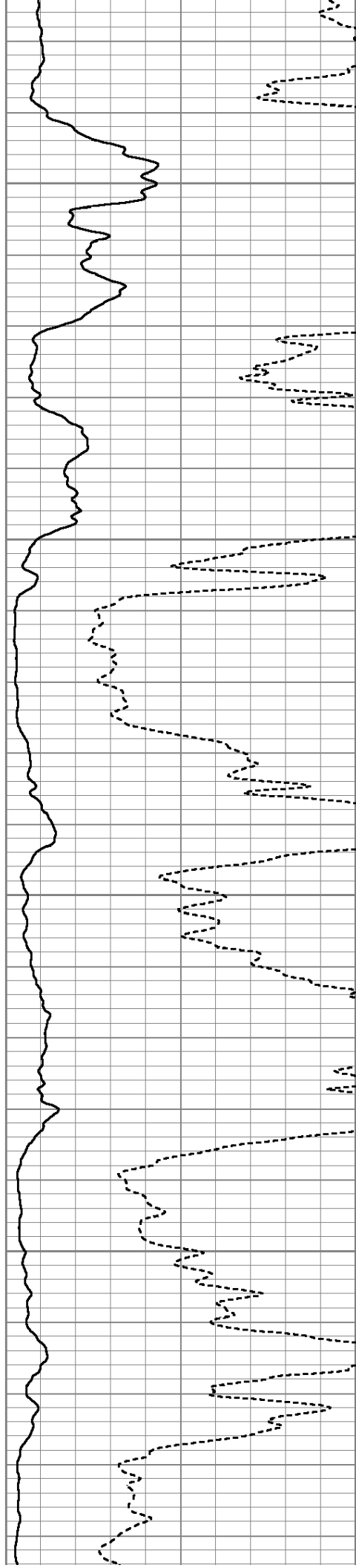


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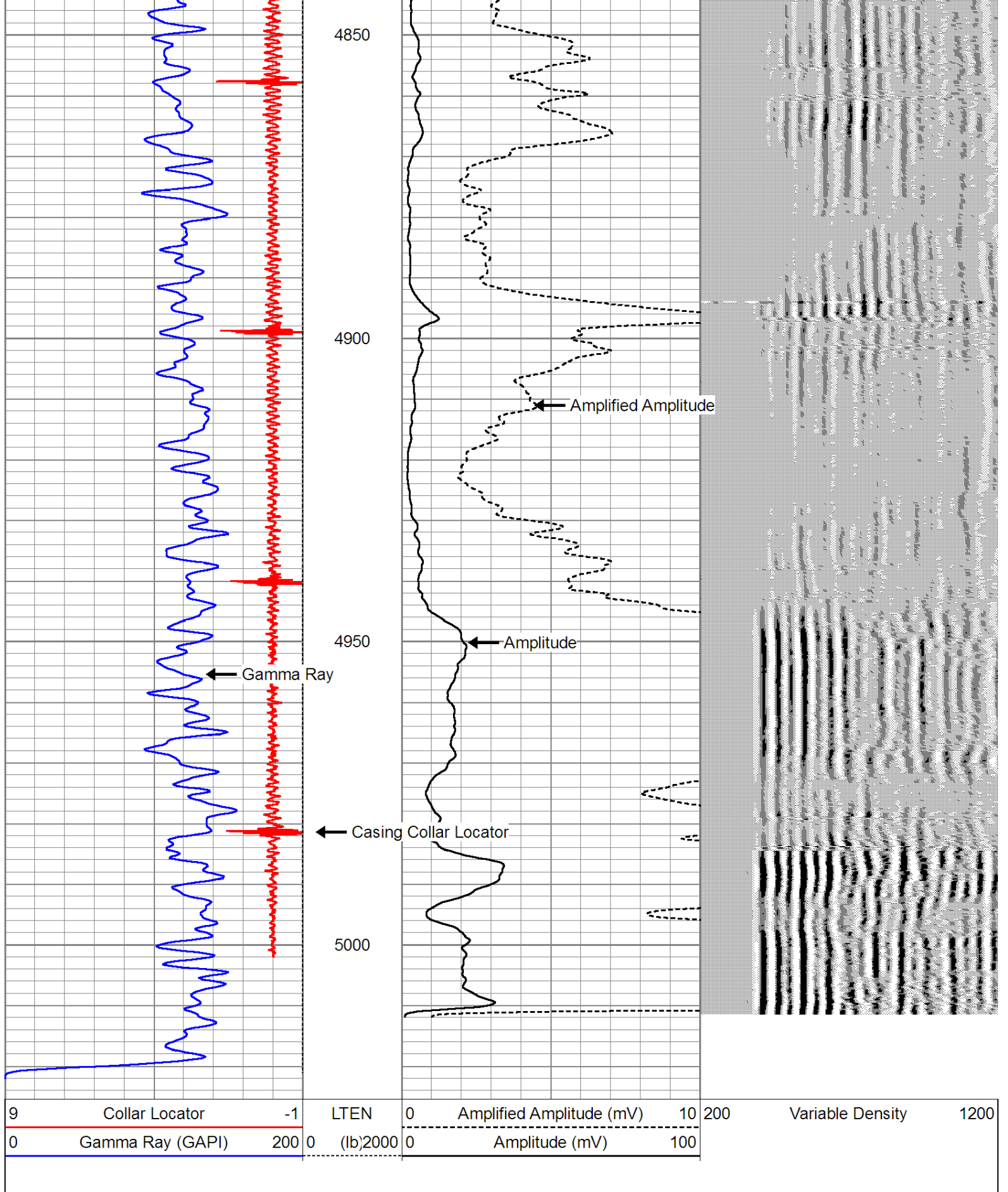
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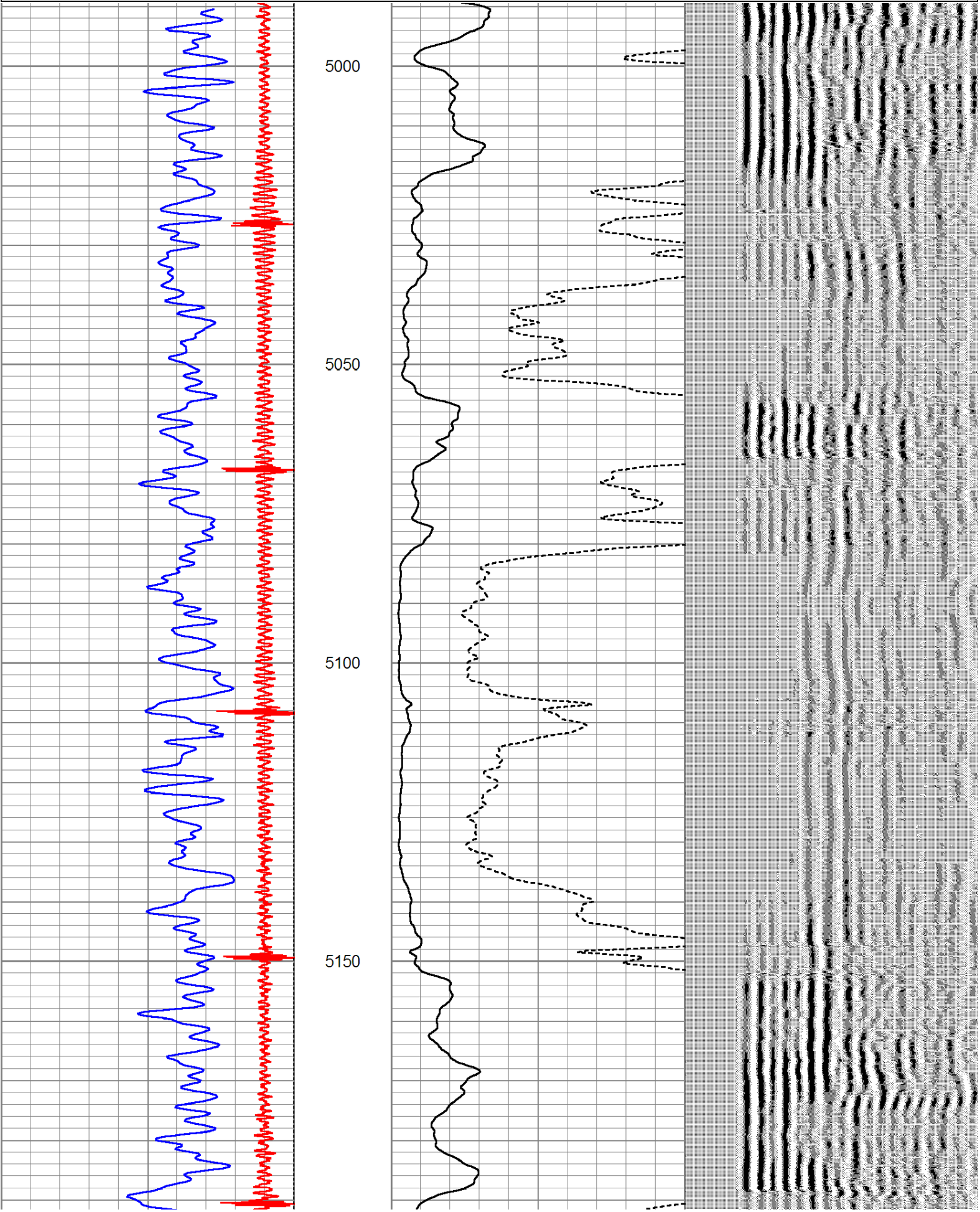




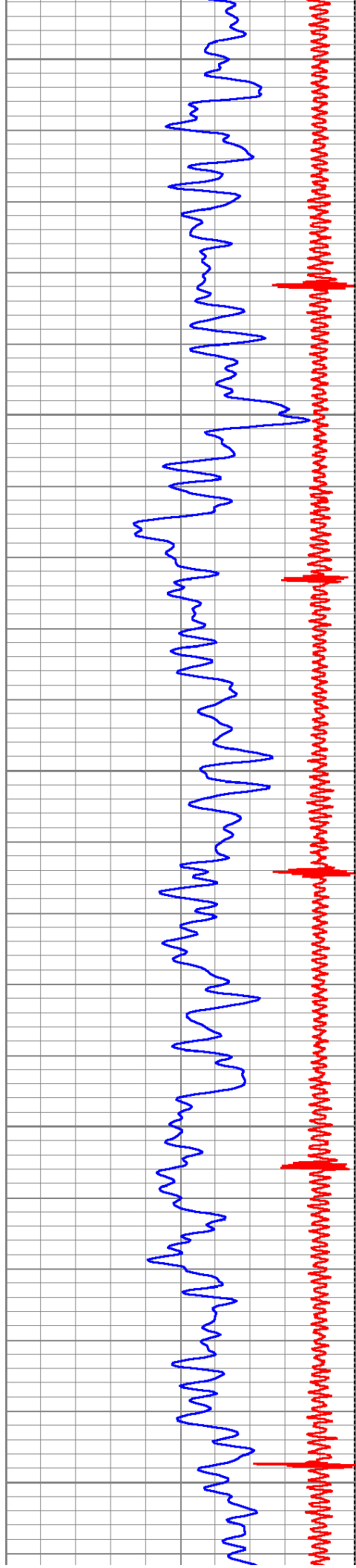


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Dataset Pathname: pass2  
Presentation Format: cbl\_dr  
Dataset Creation: Tue Jan 22 11:36:12 2013 by Log SCH 120126  
Charted by: Depth in Feet scaled 1:240

|   |                  |     |          |   |                          |     |     |                  |      |
|---|------------------|-----|----------|---|--------------------------|-----|-----|------------------|------|
| 9 | Collar Locator   | -1  | LTEN     | 0 | Amplified Amplitude (mV) | 10  | 200 | Variable Density | 1200 |
| 0 | Gamma Ray (GAPI) | 200 | (lb)2000 | 0 | Amplitude (mV)           | 100 |     |                  |      |







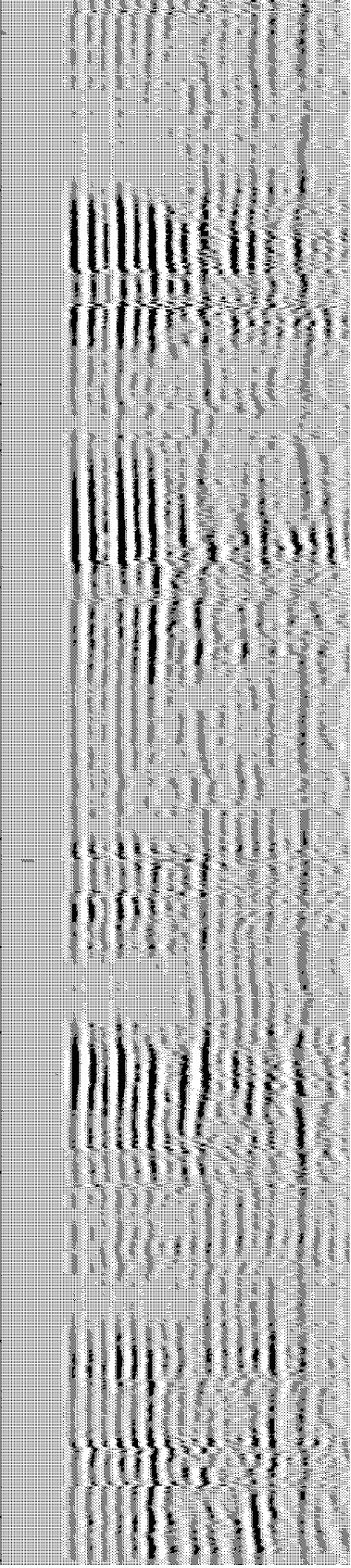
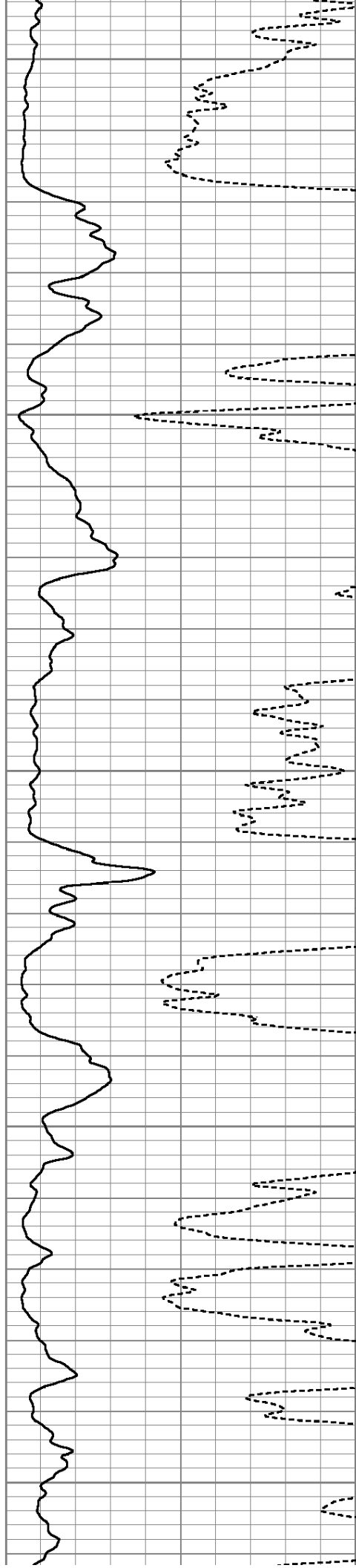
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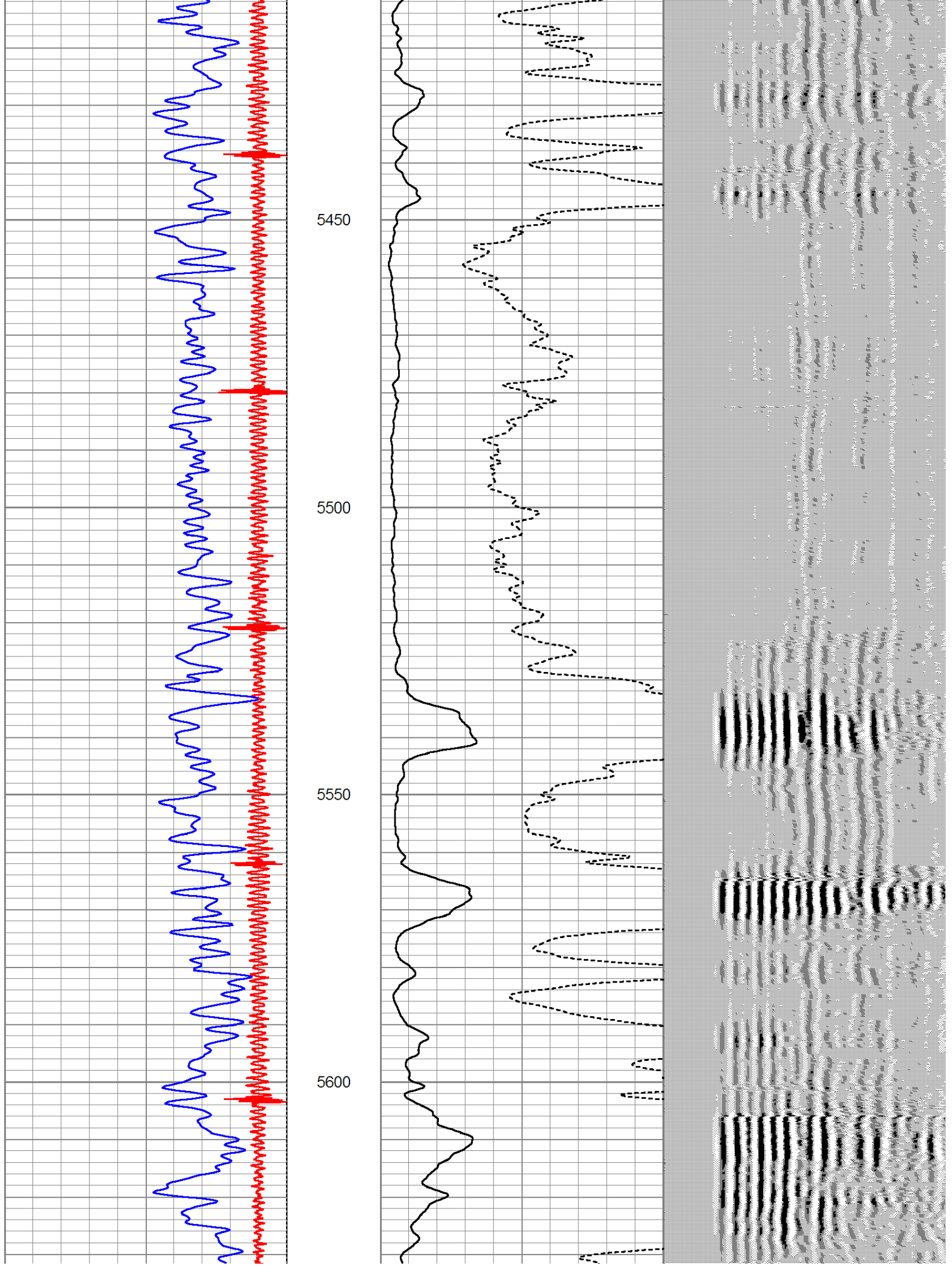
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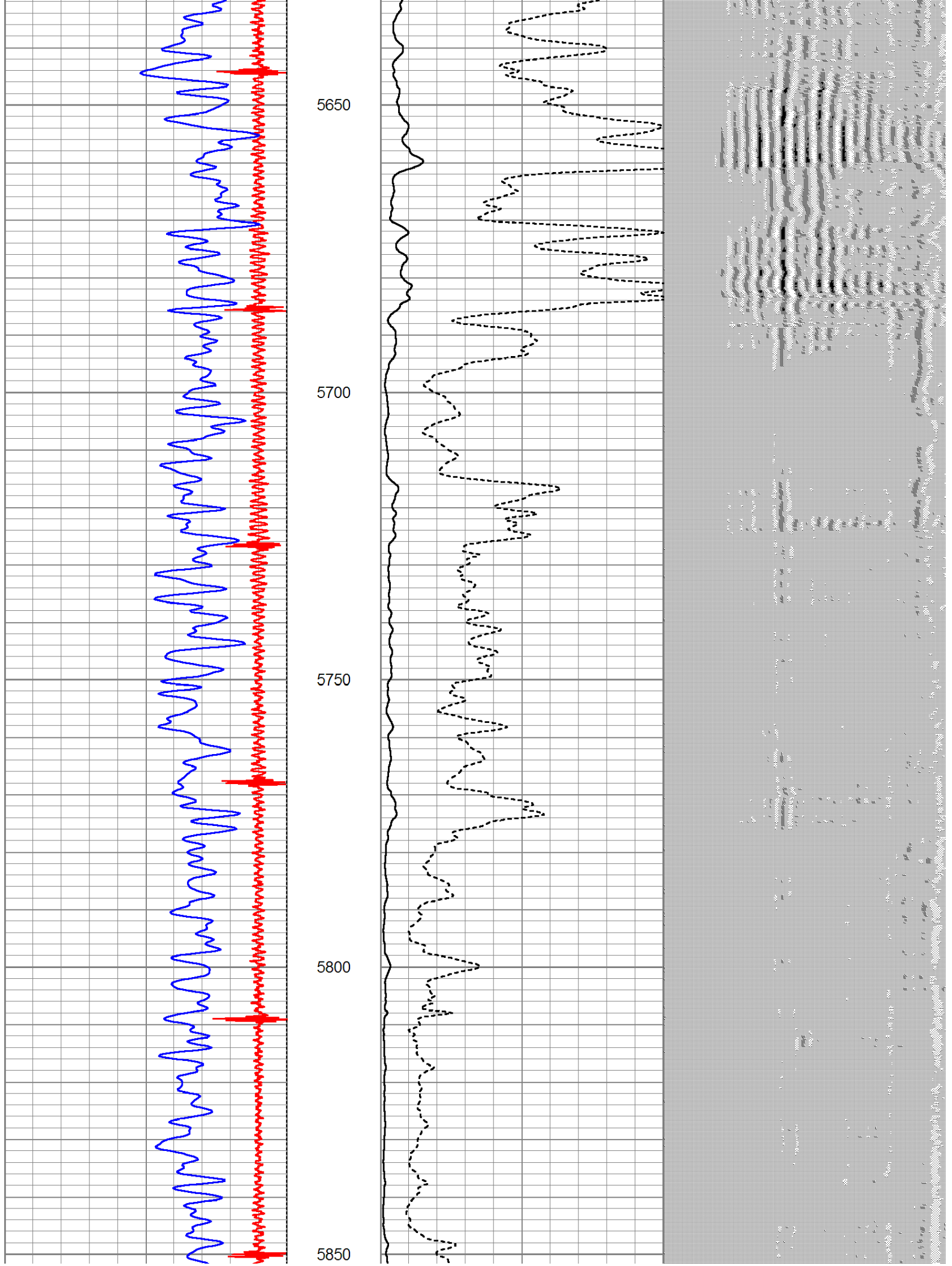
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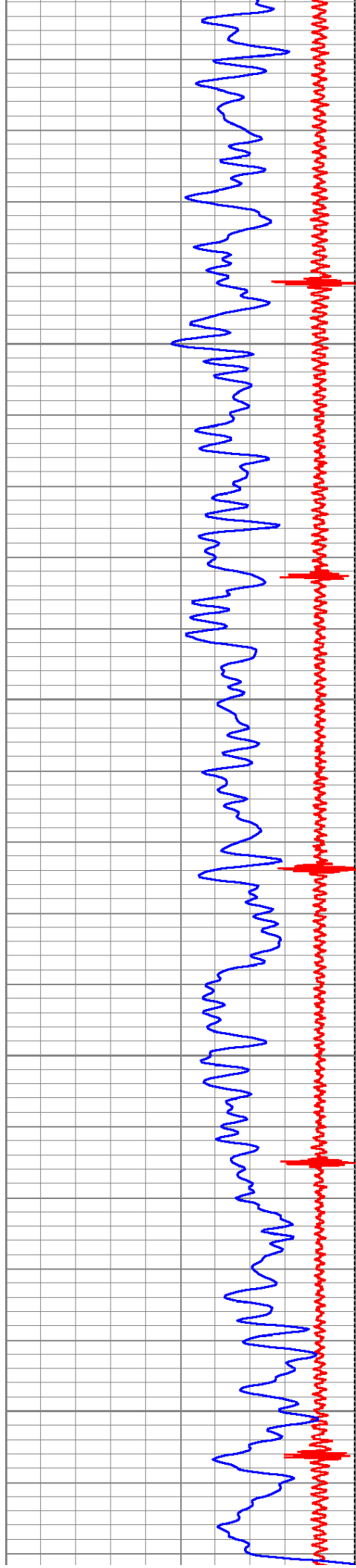










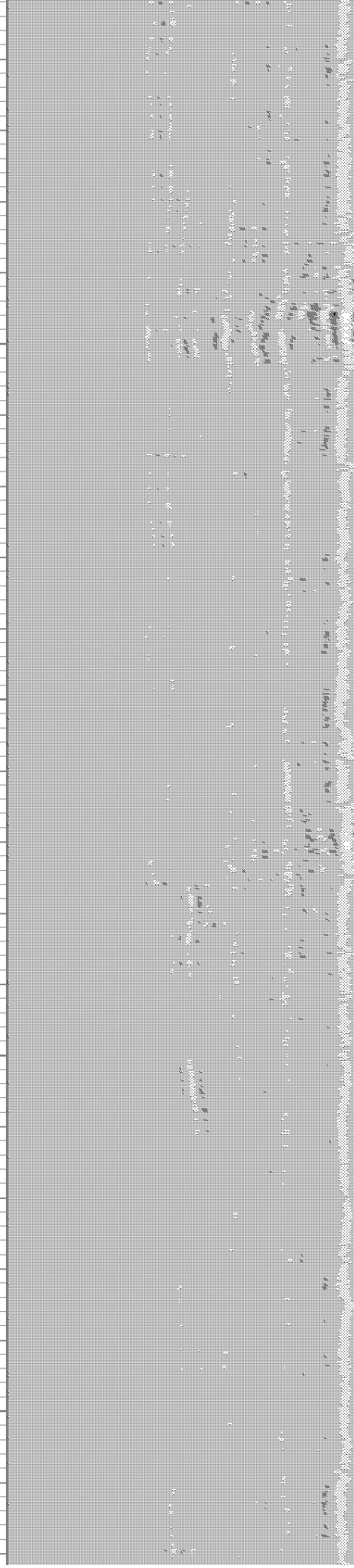
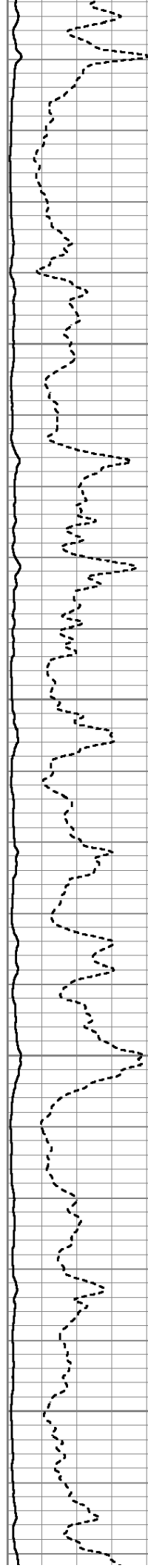


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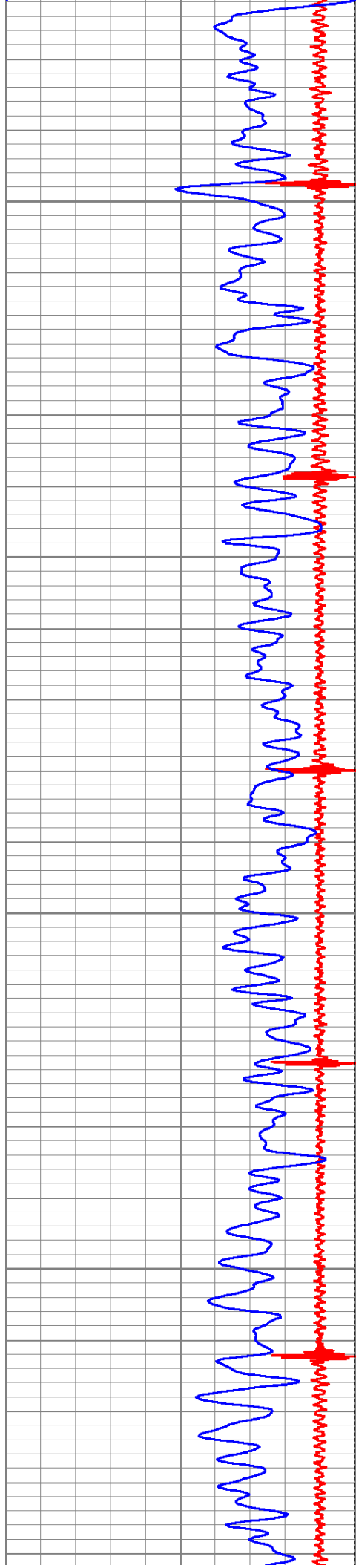
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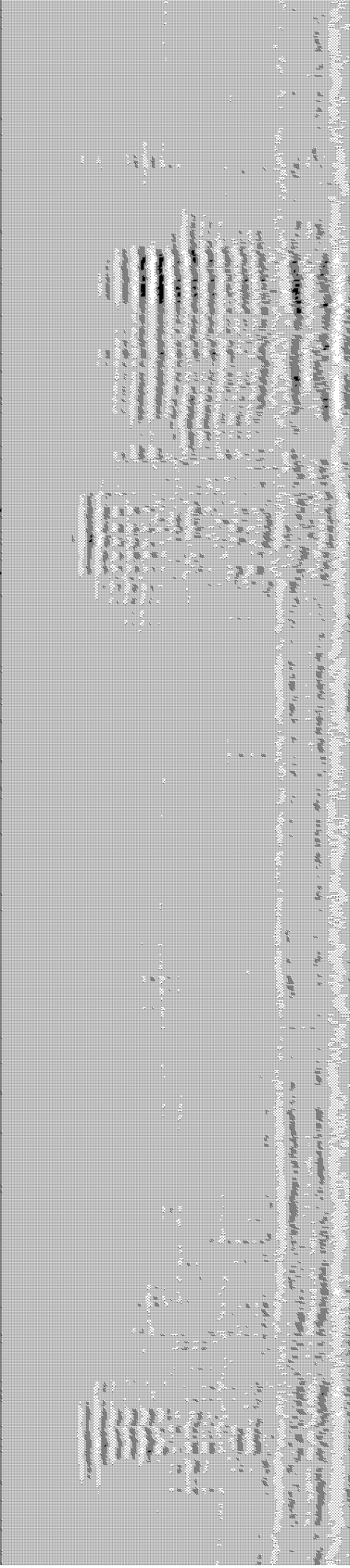
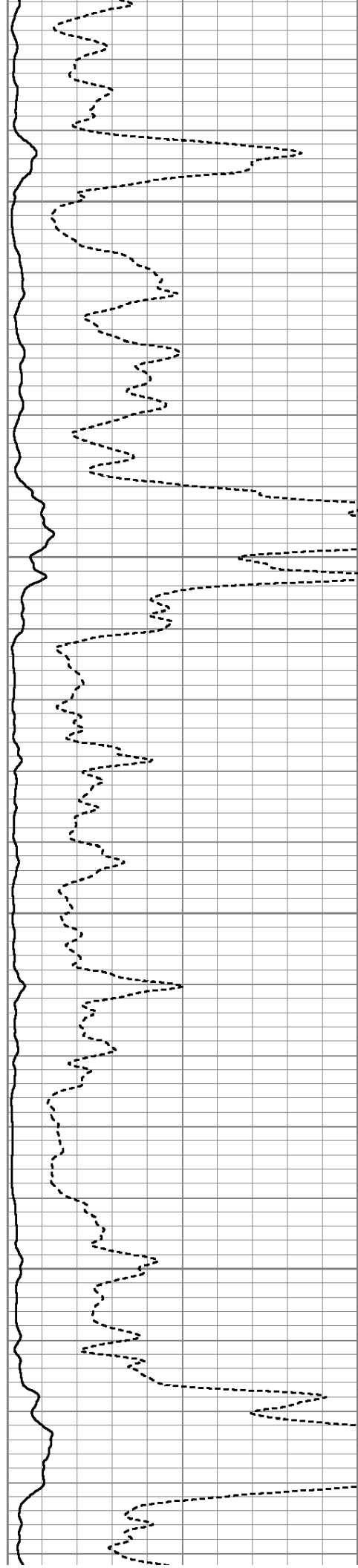


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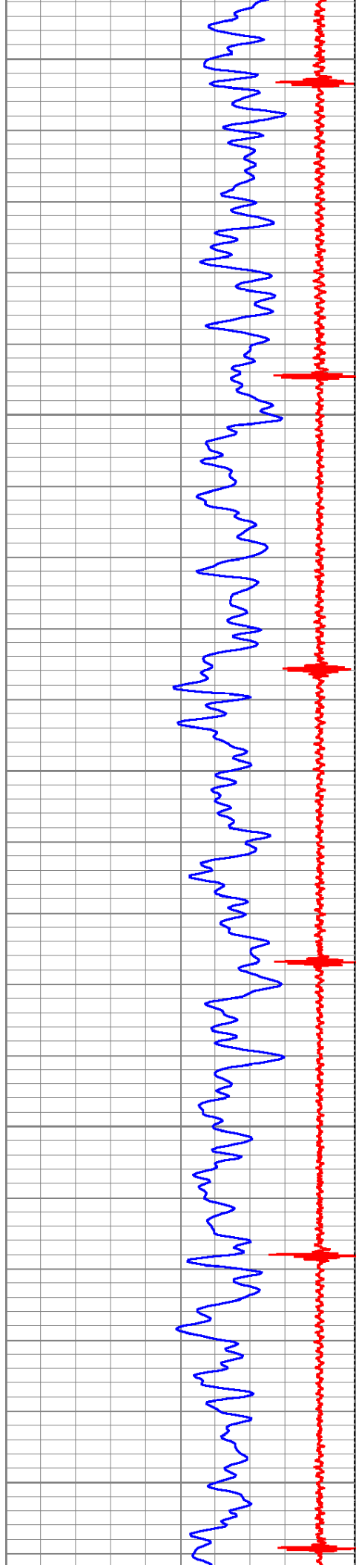
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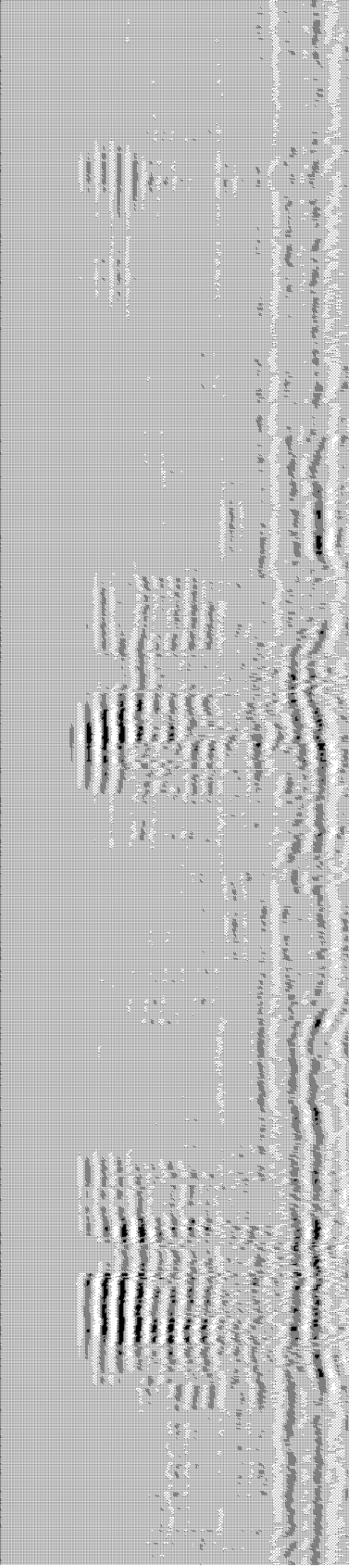
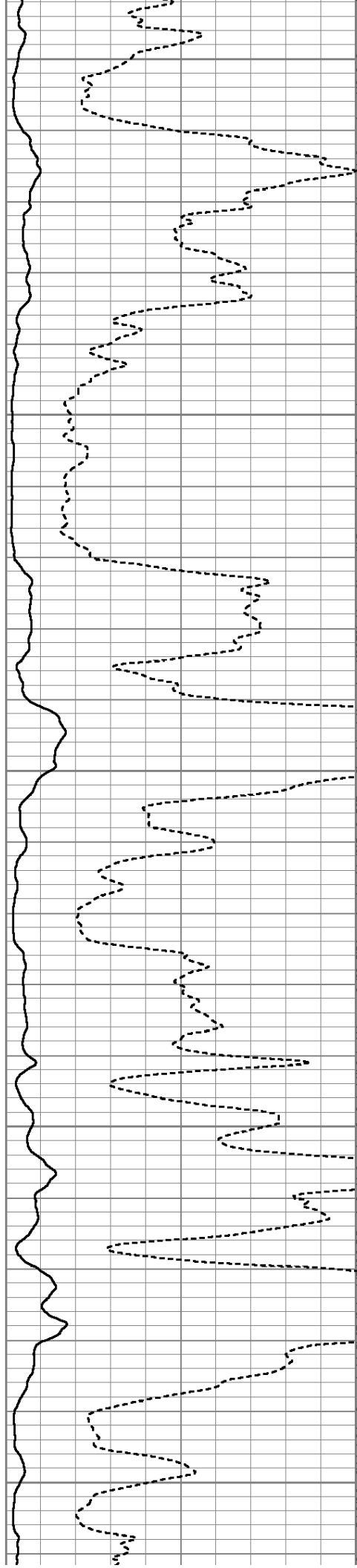
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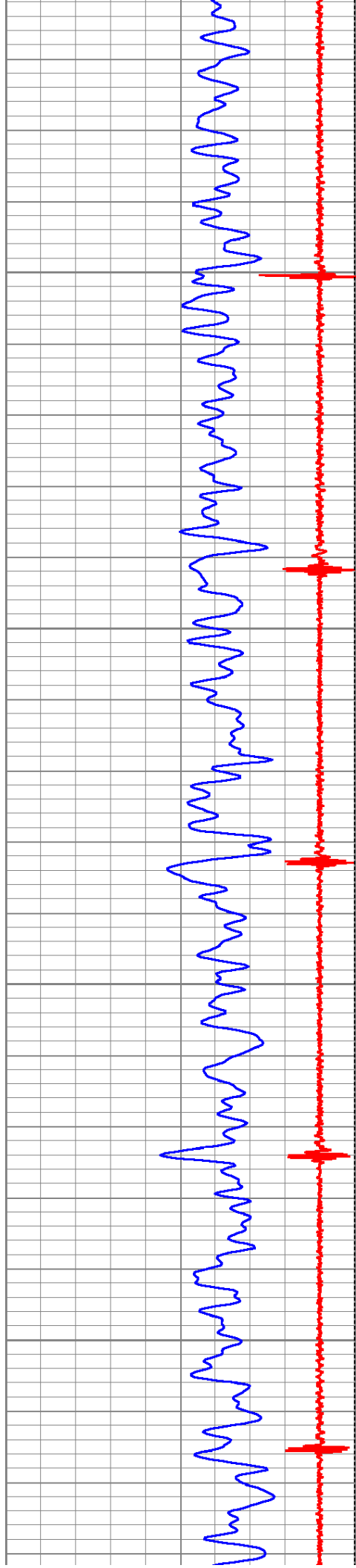
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