



CEMENT BOND
LOG

Mesa Wireline

| | | | |
|----------------------------|----------------------------|----------------------------|--|
| Company | ENCANA OIL & GAS (USA) INC | | |
| Well | CANYON CREEK 4-13 | | |
| Field | WATTENBERG | | |
| County | BOULDER | | |
| State | COLORADO | | |
| Company | | ENCANA OIL & GAS (USA) INC | |
| Well | | CANYON CREEK 4-13 | |
| Field | | WATTENBERG | |
| County | | BOULDER | |
| State | | COLORADO | |
| Location: | | API #: 05-013-06667-0000 | |
| SHL: 2026' FSL & 2098' FEL | | Other Services | |
| BHL: 1325' FSL & 1325' FEL | | NONE | |
| SEC: 13 TWP: 1N RGE: 69W | | Elevation | |
| Permanent Datum | | GROUND LEVEL | |
| Log Measured From | | KELLY BUSHING = 13' | |
| Drilling Measured From | | KELLY BUSHING | |
| Permanent Datum | | GROUND LEVEL | |
| Log Measured From | | KELLY BUSHING = 13' | |
| Drilling Measured From | | KELLY BUSHING | |

| | | | |
|------------------------|--------------|--------|-------|
| Date | 22 JULY 2012 | | |
| Run Number | ONE | | |
| Depth Driller | 8513' | | |
| Depth Logger | 8458' | | |
| Bottom Logged Interval | 8458' | | |
| Top Log Interval | 2800' | | |
| Open Hole Size | 7.875" | | |
| Type Fluid | WATER | | |
| Density / Viscosity | ~8.3# | | |
| Max. Recorded Temp. | 284 DEG F | | |
| Estimated Cement Top | 3060' | | |
| Time Well Ready | N/A | | |
| Time Logger on Bottom | N/A | | |
| Equipment Number | 10501 PRD01 | | |
| Location | AULT, CO | | |
| Recorded By | Z. EMICK | | |
| Witnessed By | T. MAJORS | | |
| Borehole Record | | | |
| Run Number | Bit | From | To |
| ONE | 12.25" | 0' | 795' |
| TWO | 7.875" | 795' | 8513' |
| Tubing Record | | | |
| Casing Record | Size | Wgt/Ft | Top |
| Surface String | 8.625" | 24# | 0' |
| Prot. String | | | |
| Production String | 4.5" | 11.6# | 0' |
| 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

LOG CORRELATED TO PIONEER WIRELINE SERVICES HIGH RESOLUTION INDUCTION LOG DATED 17 JULY 2012

SHORT JOINT 7496' - 7517'

WE APPRECIATE YOUR BUSINESS, MESA WIRELINE LLC, GRAND JUNCTION CO. (970) 257-0458



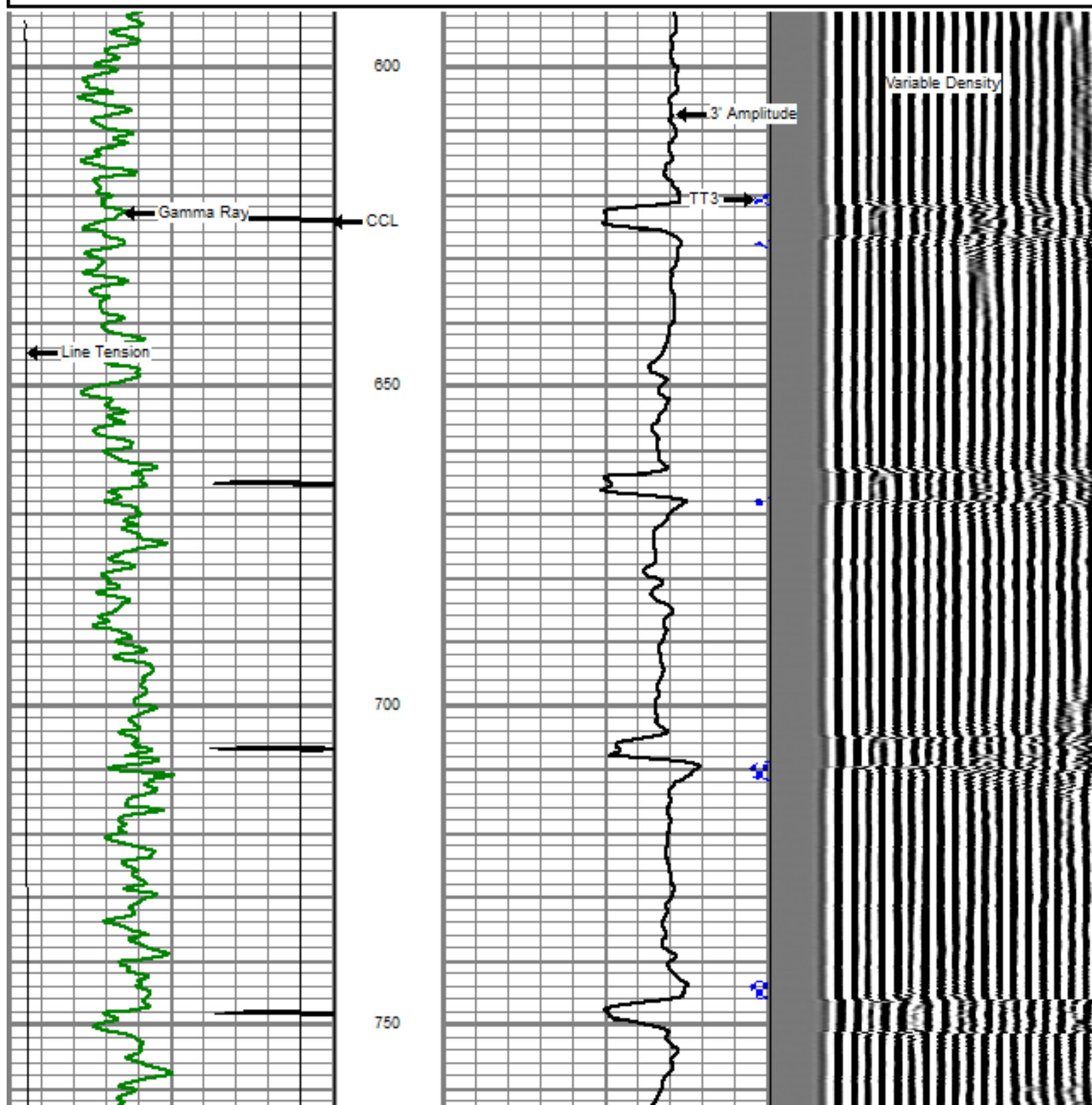
TOP PASS

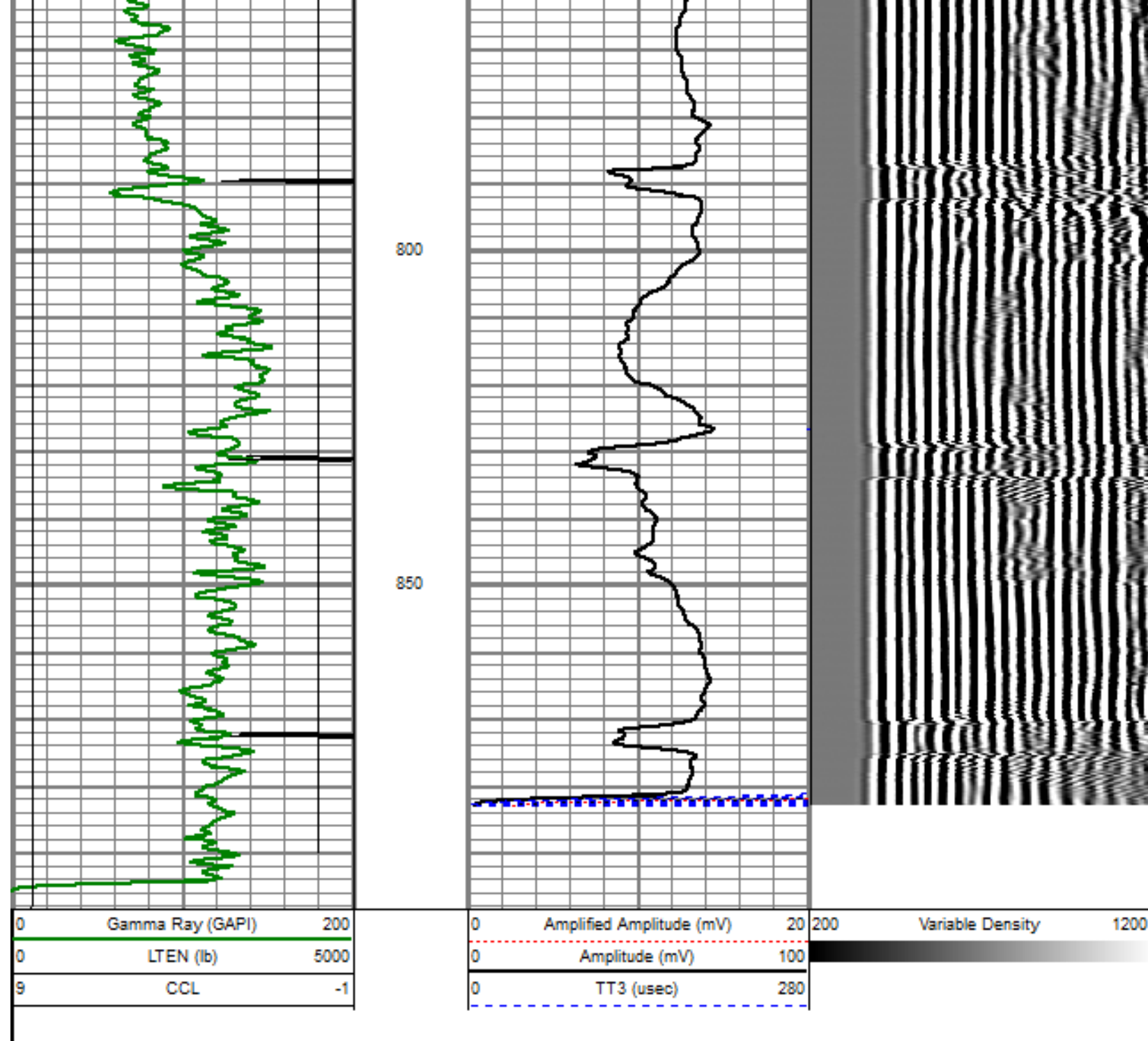
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Dataset Pathname: pass5
Presentation Format: dobl_prb
Dataset Creation: Sun Jul 22 09:31:47 2012 by Log SCH 110930
Charted by: Depth in Feet scaled 1:240

| | | |
|---|------------------|------|
| 0 | Gamma Ray (GAPI) | 200 |
| 0 | LTEN (lb) | 5000 |
| 9 | CCL | -1 |

| | | |
|---|--------------------------|-----|
| 0 | Amplified Amplitude (mV) | 20 |
| 0 | Amplitude (mV) | 100 |
| 0 | TT3 (usec) | 280 |

200 Variable Density 1200

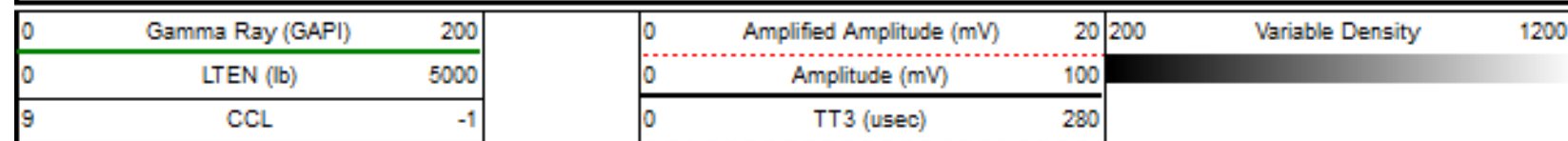


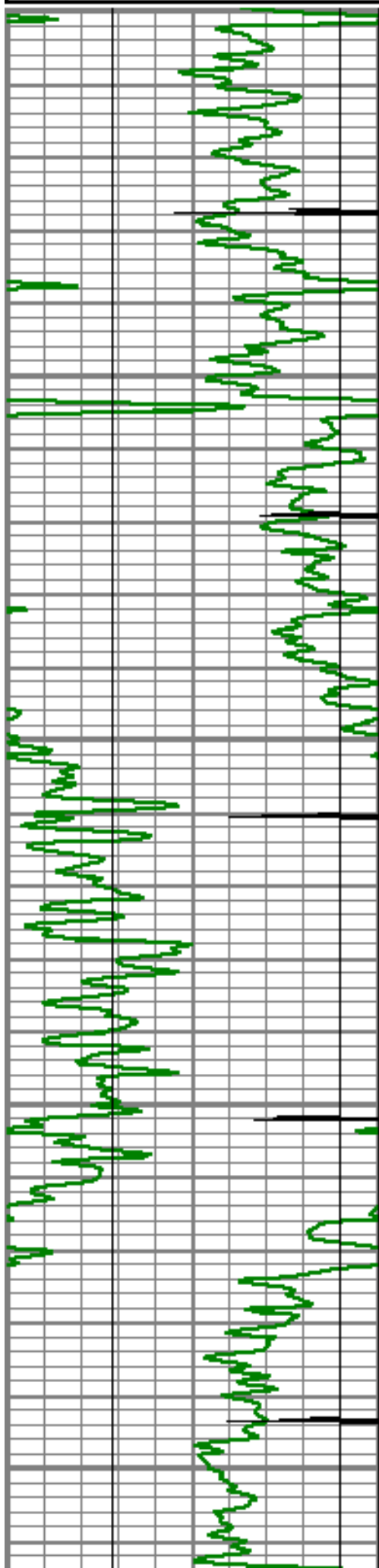


REPEAT PASS

5" = 100'

Database File: canyon creek 4-13.db
 Dataset Pathname: pass3
 Presentation Format: dobl_prb
 Dataset Creation: Sun Jul 22 07:46:41 2012 by Log SCH 110930
 Charted by: Depth in Feet scaled 1:240





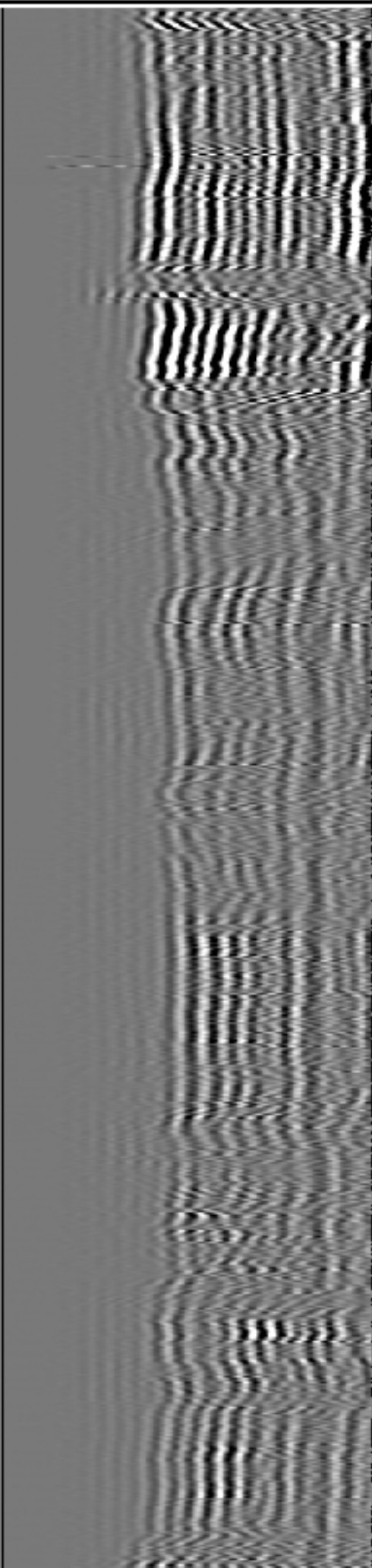
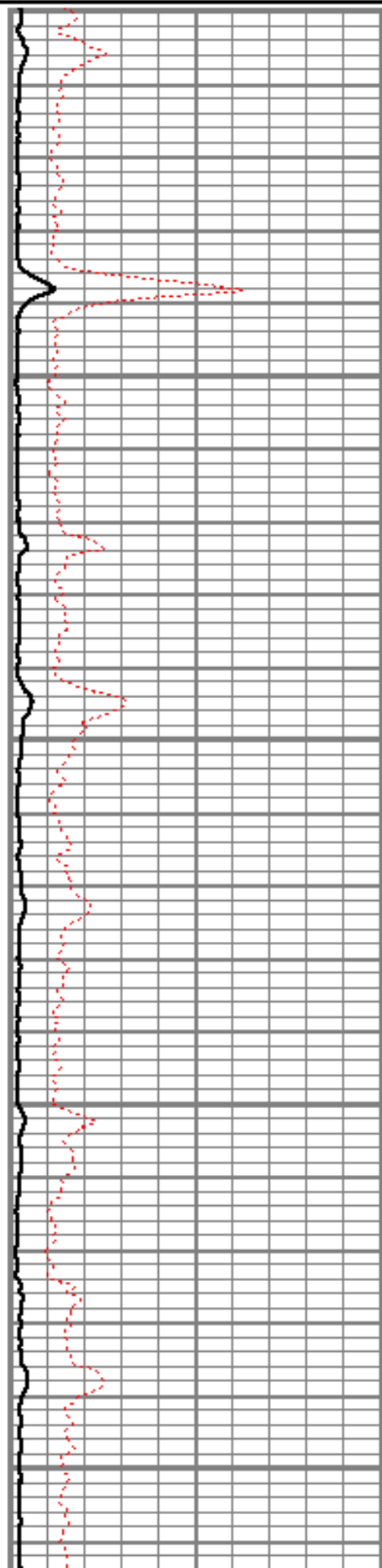
0100

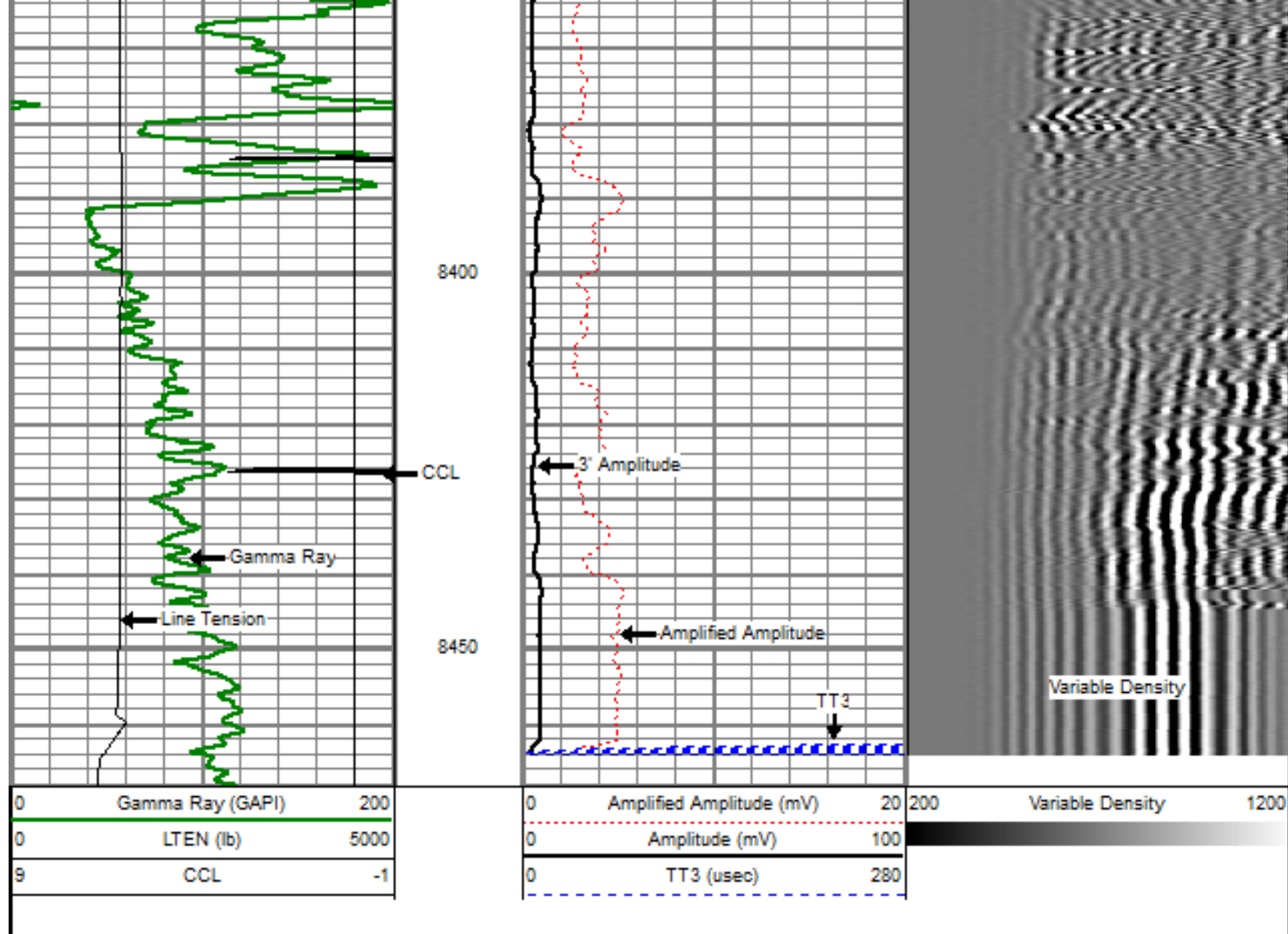
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8250

8300

8350

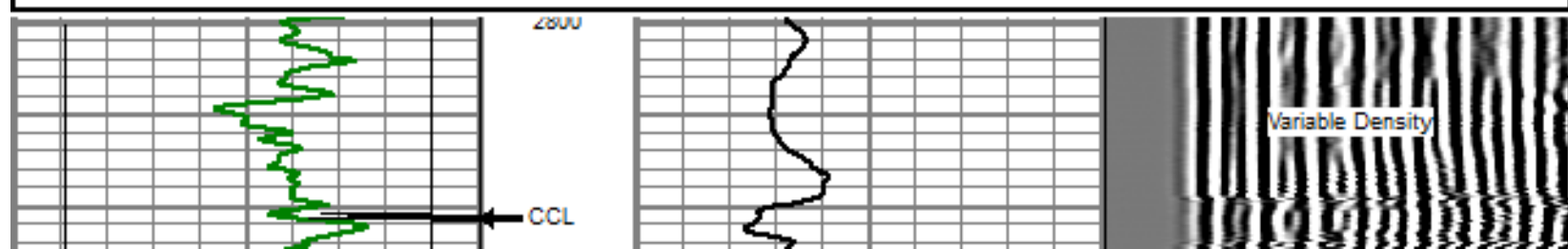
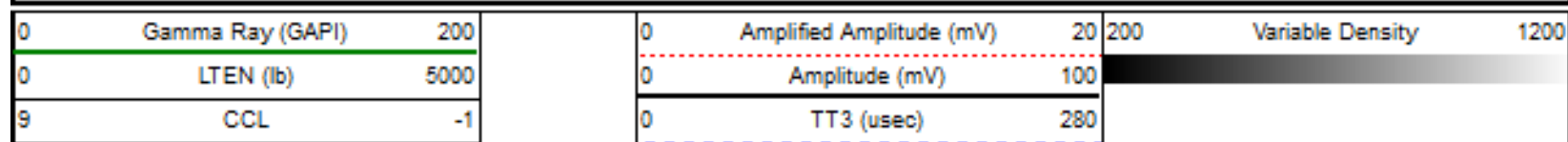


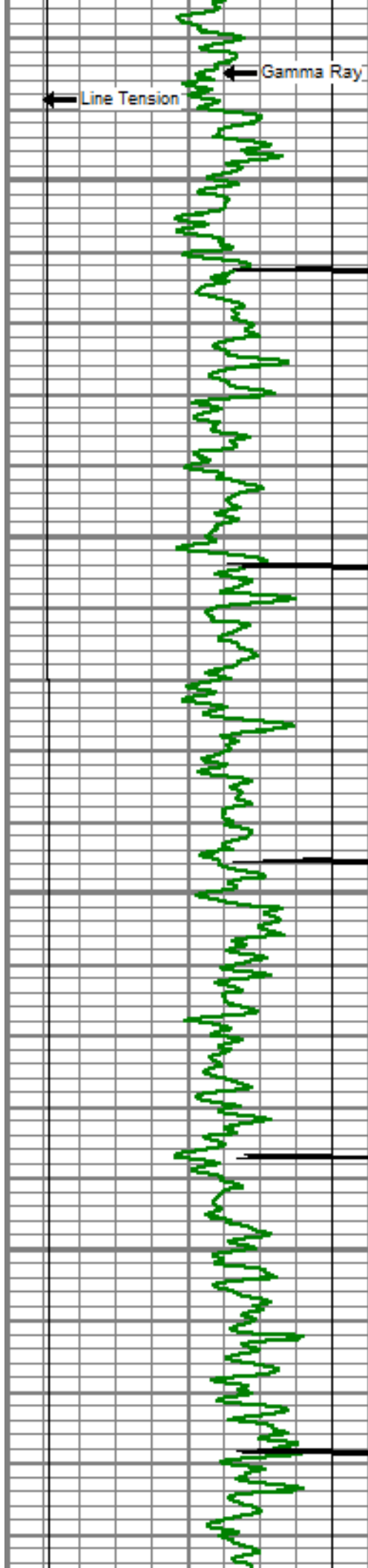


MAIN PASS

5" = 100'

Database File: canyon creek 4-13.db
 Dataset Pathname: pass4OH.1
 Presentation Format: dobl_prb
 Dataset Creation: Sun Jul 22 09:25:25 2012 by Calc SCH 110930
 Charted by: Depth in Feet scaled 1:240



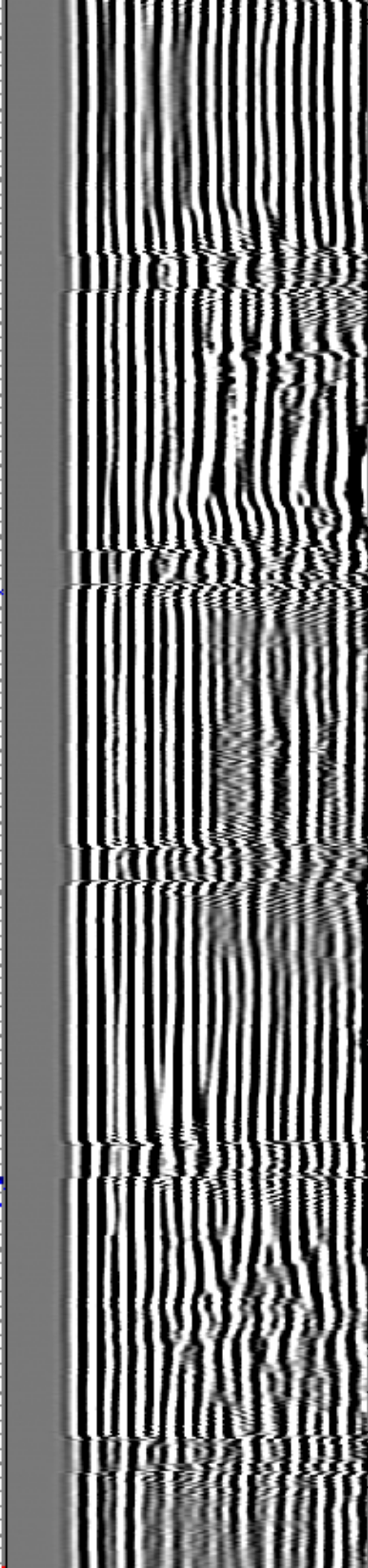
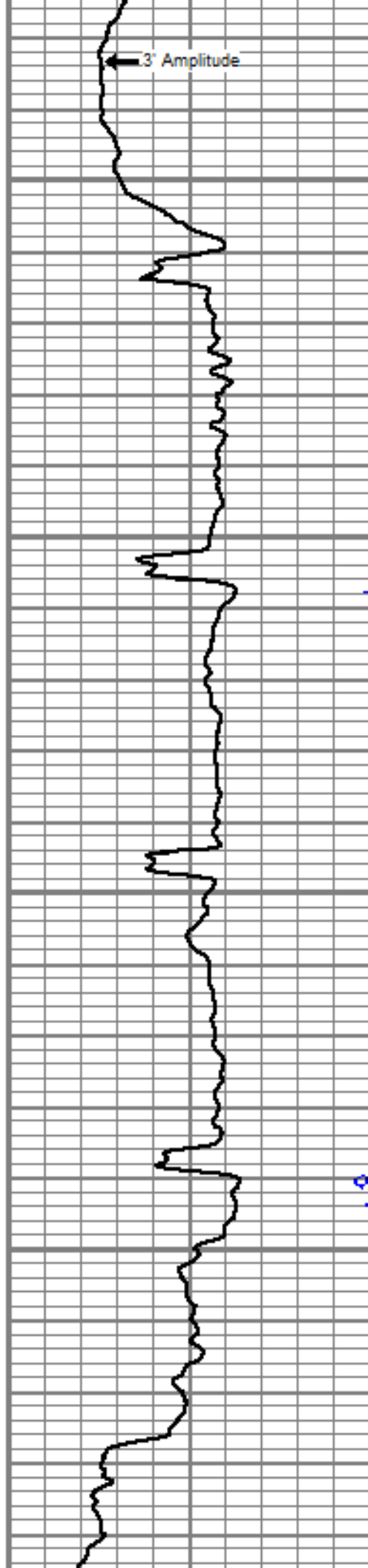


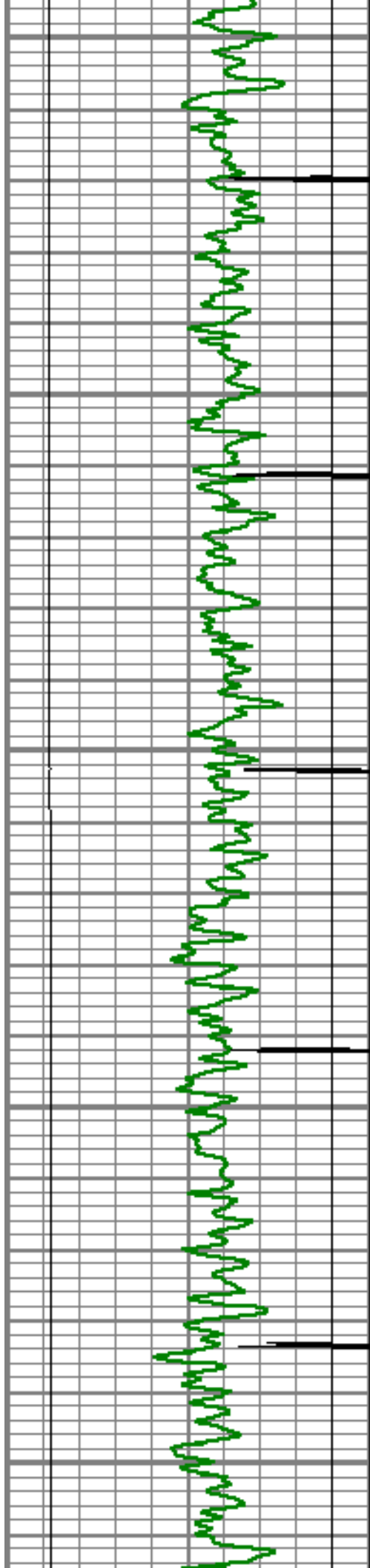
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2900

2950

3000





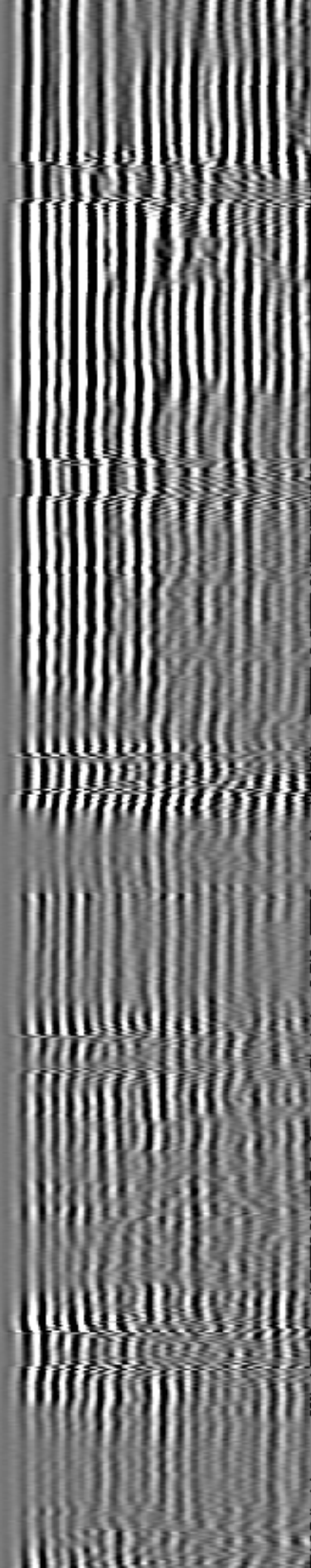
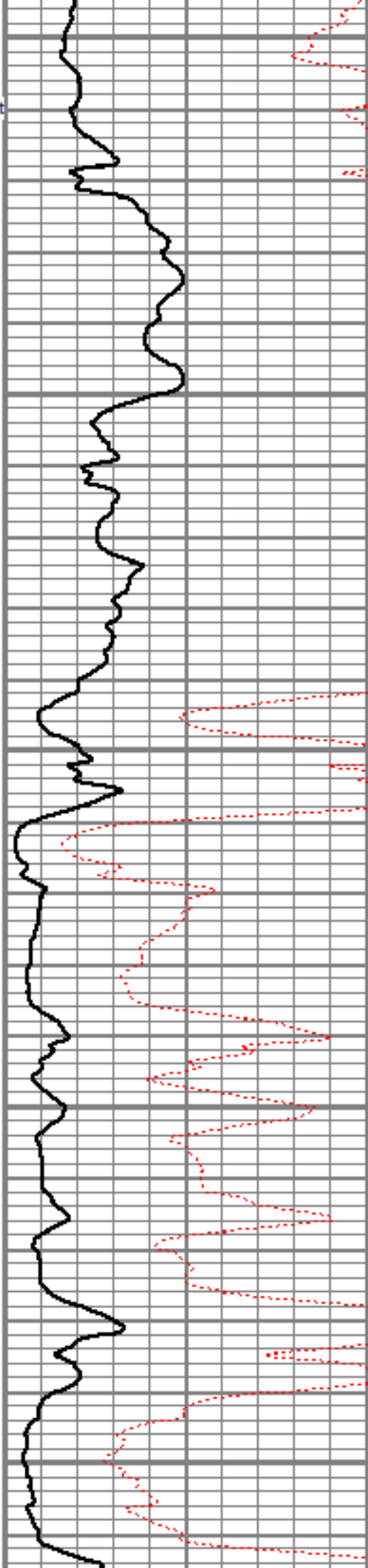
3050
Top of Cement

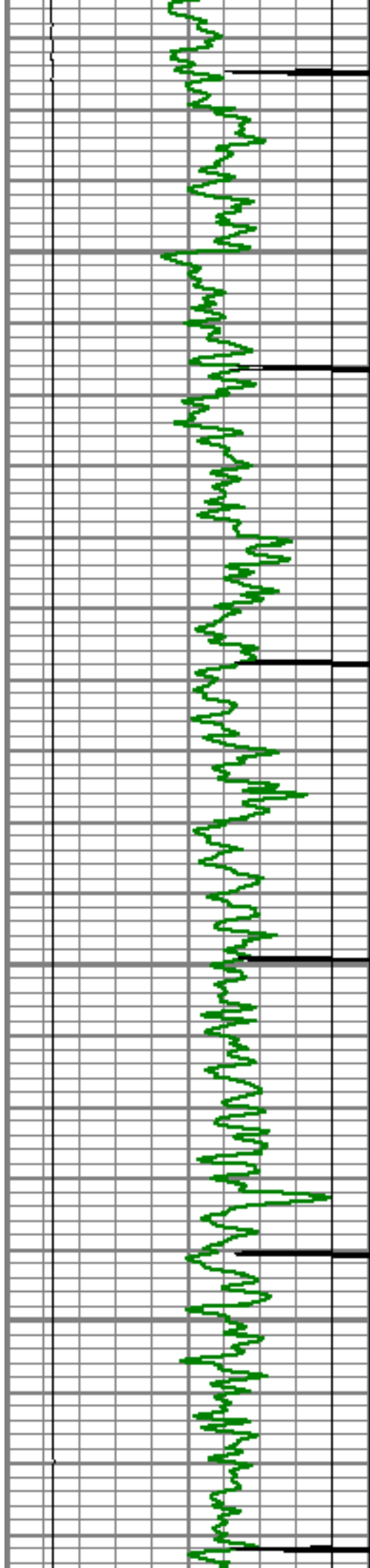
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3150

3200

3250



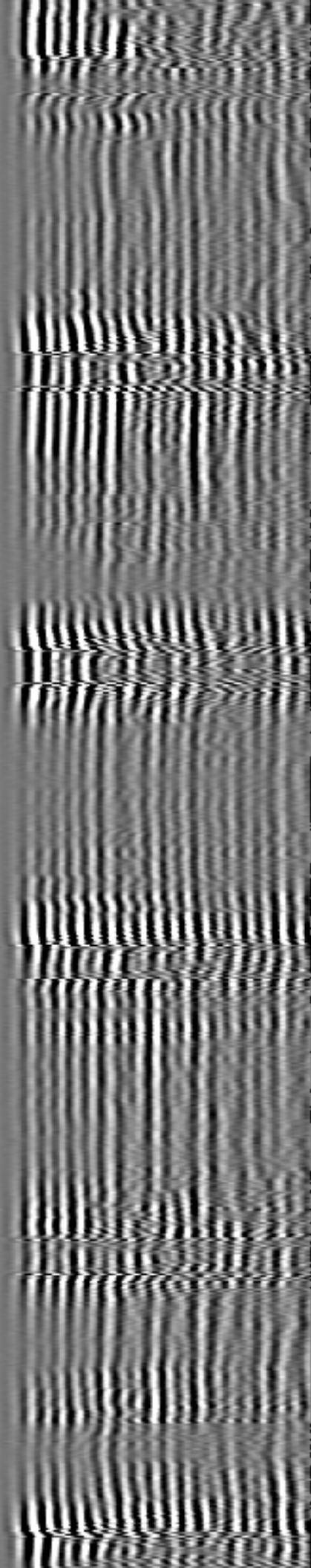
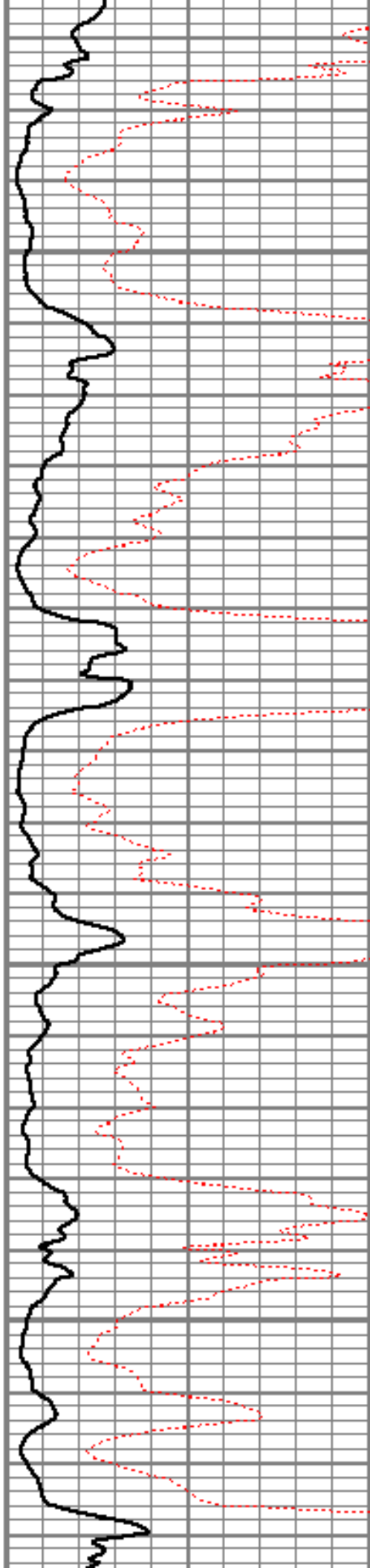


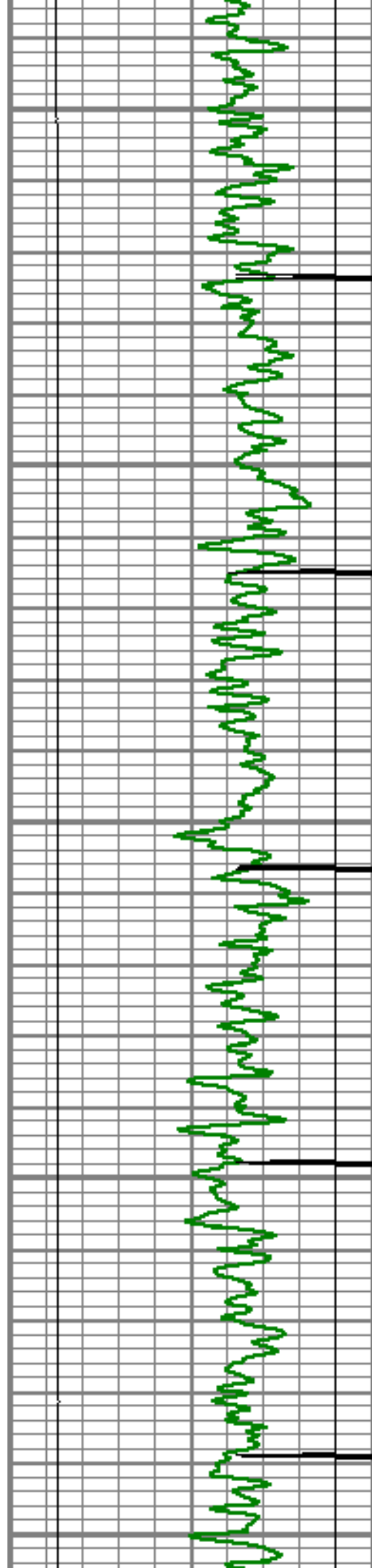
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3350

3400

3450





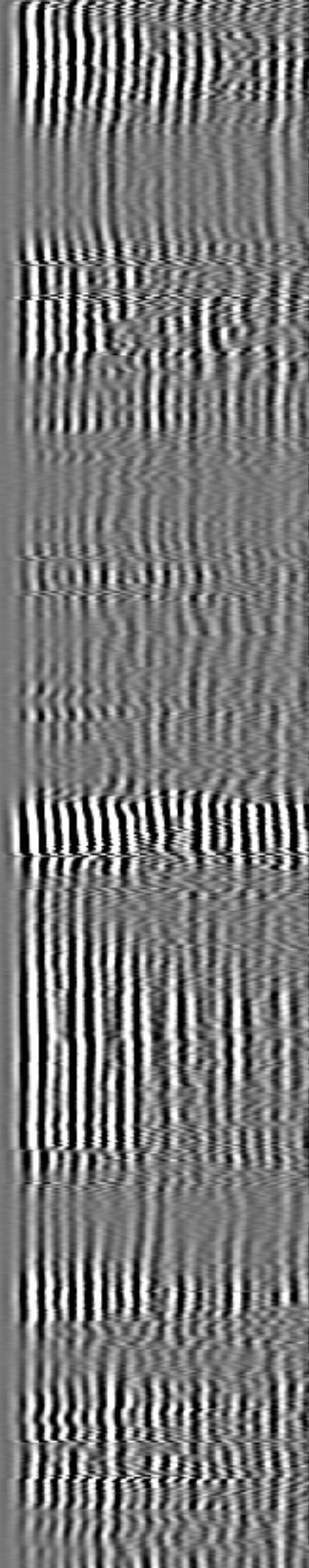
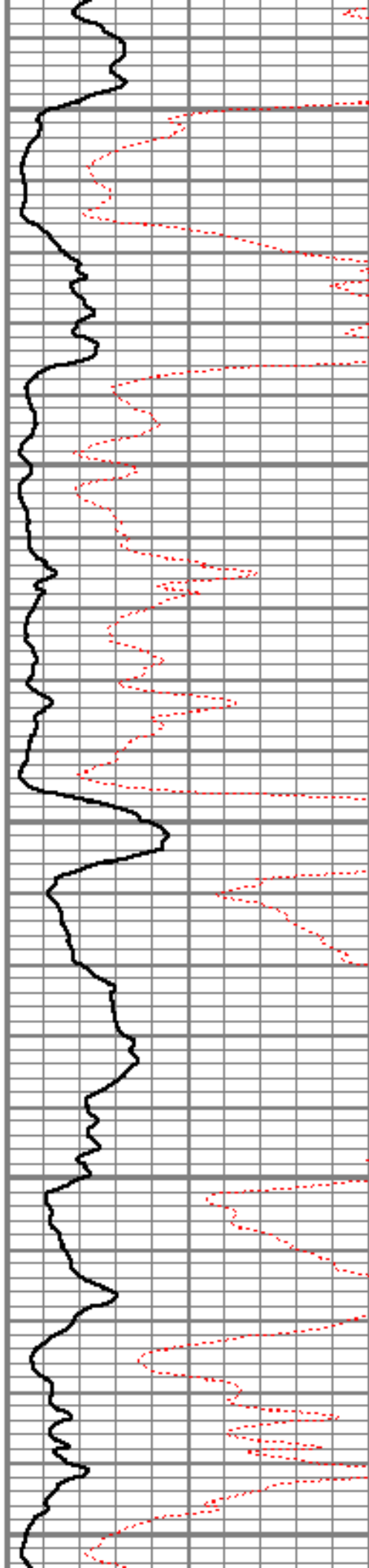
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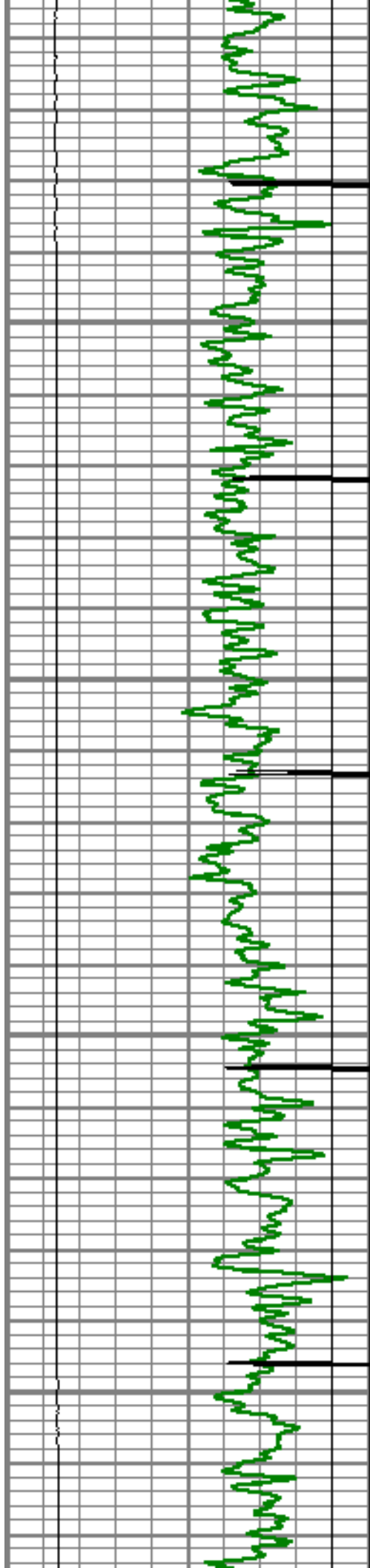
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3650

3700



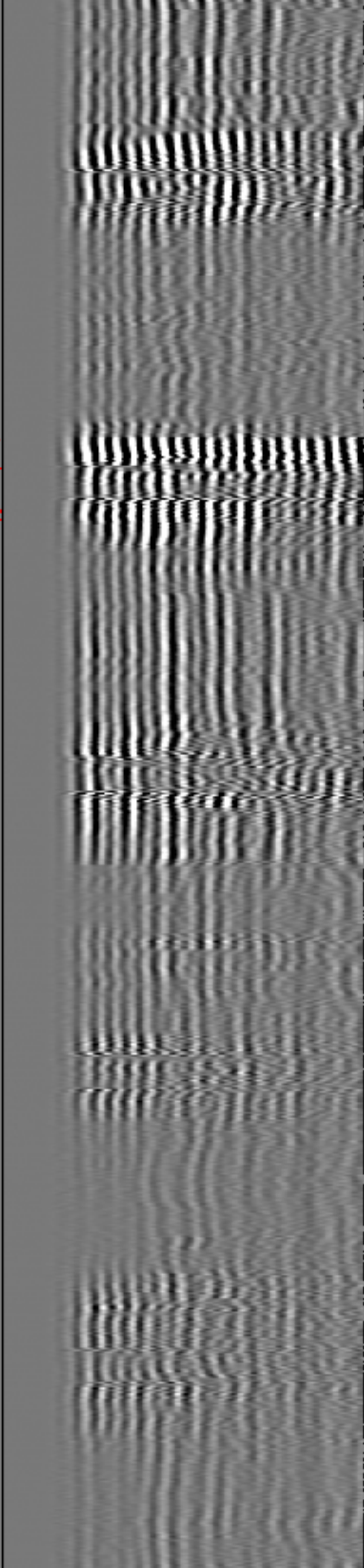
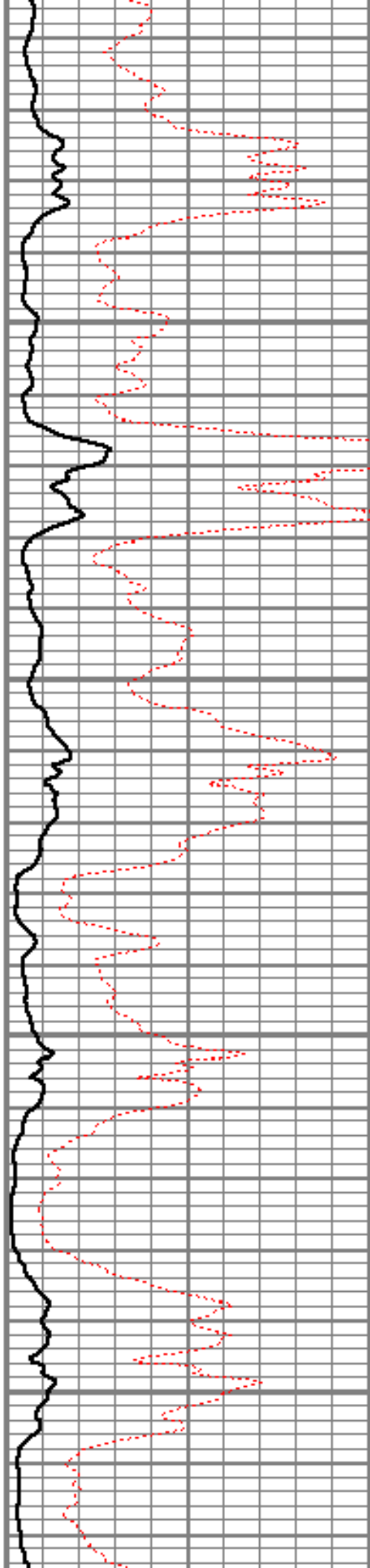


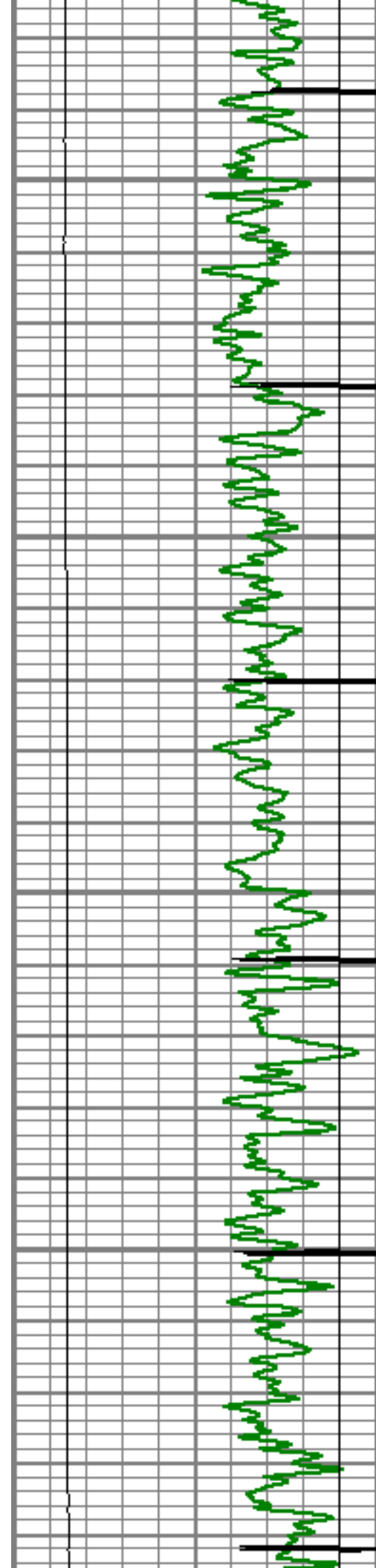
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3900



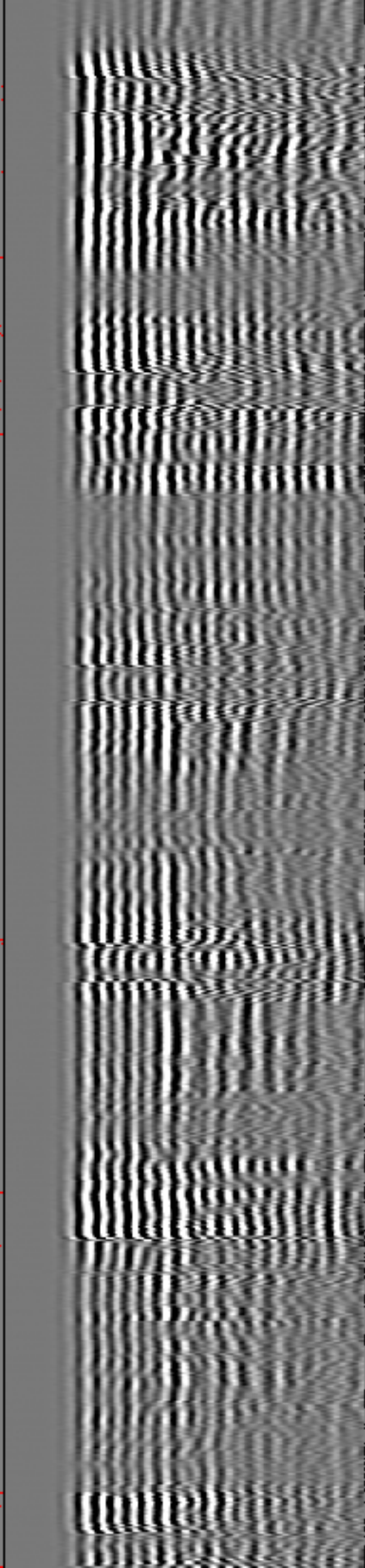
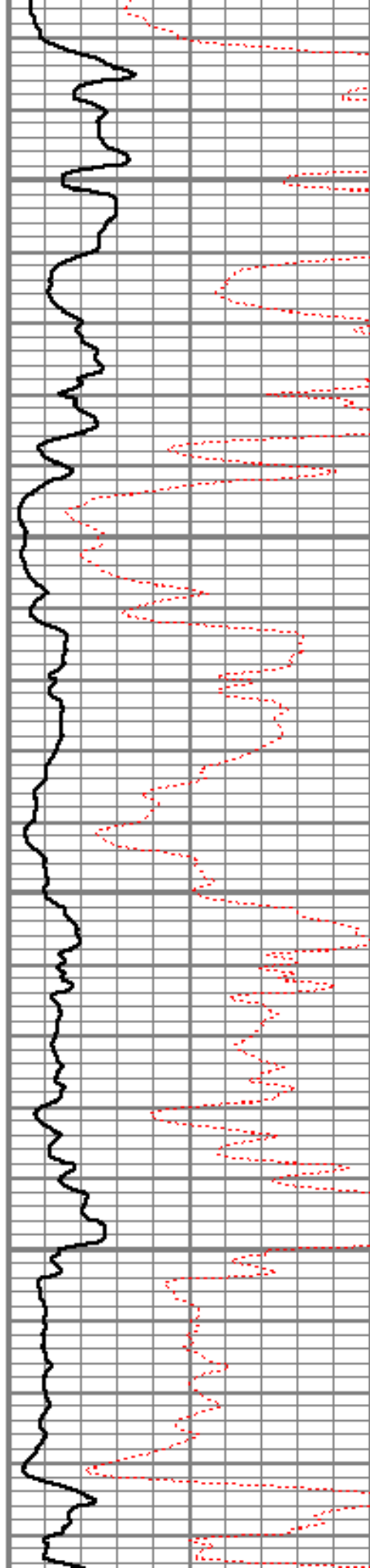


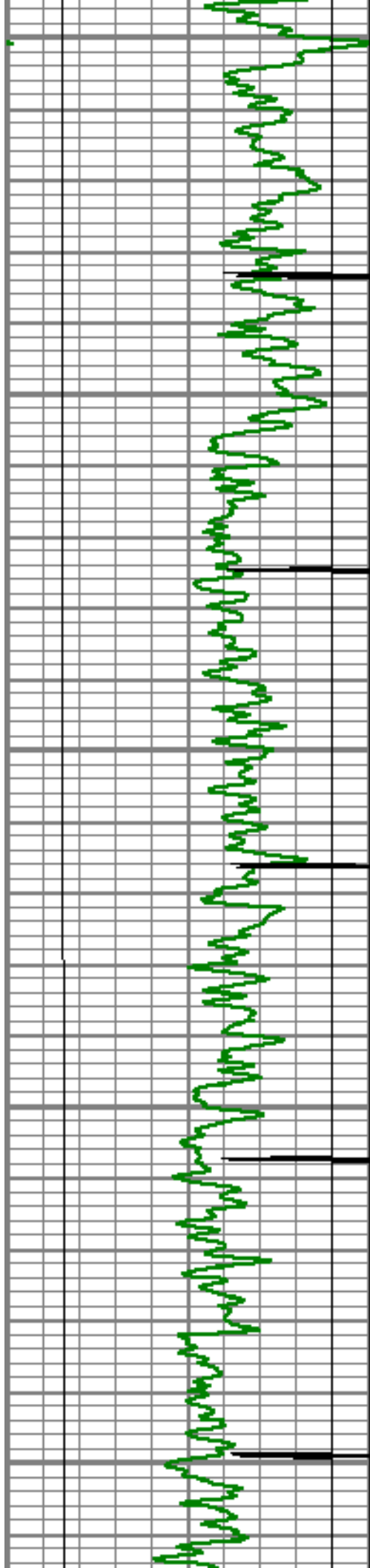
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4000

4050

4100





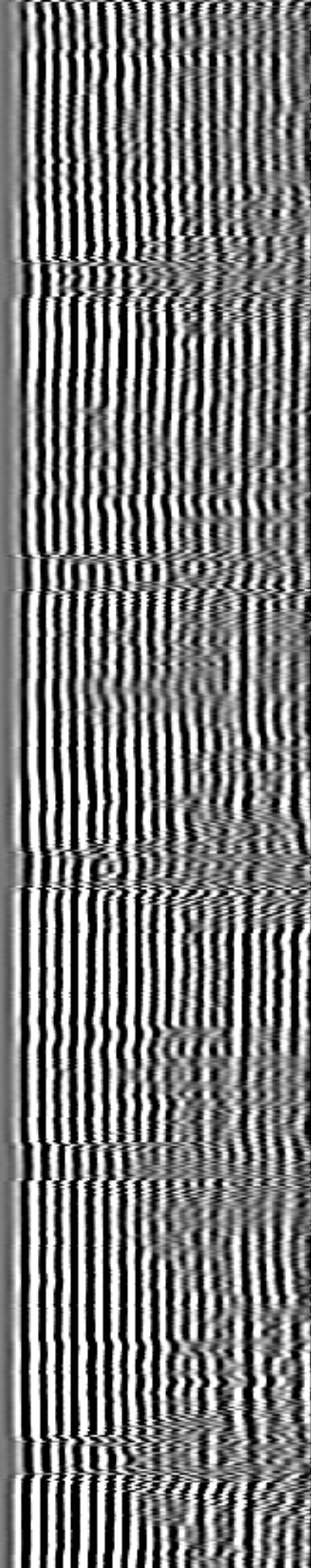
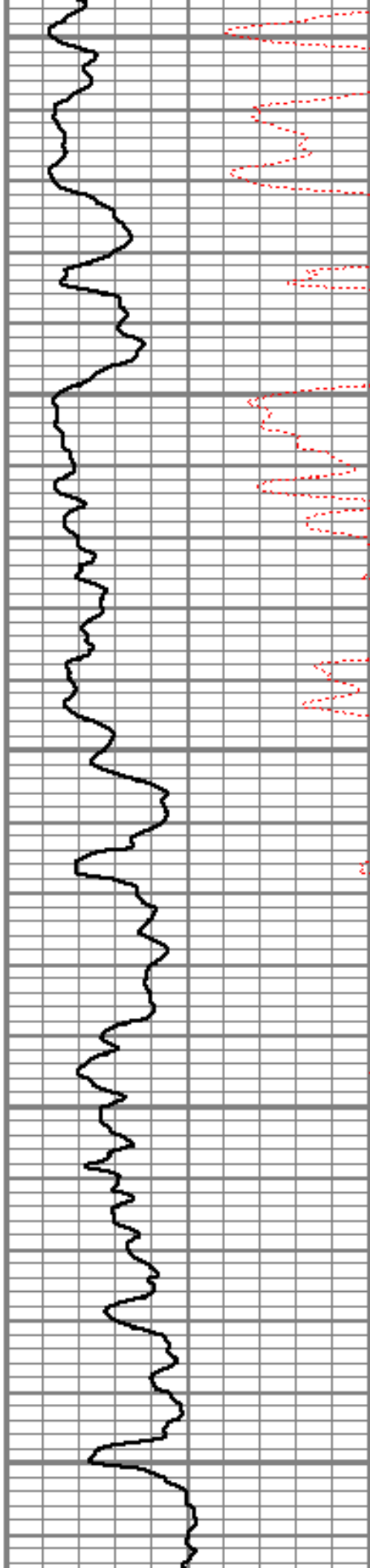
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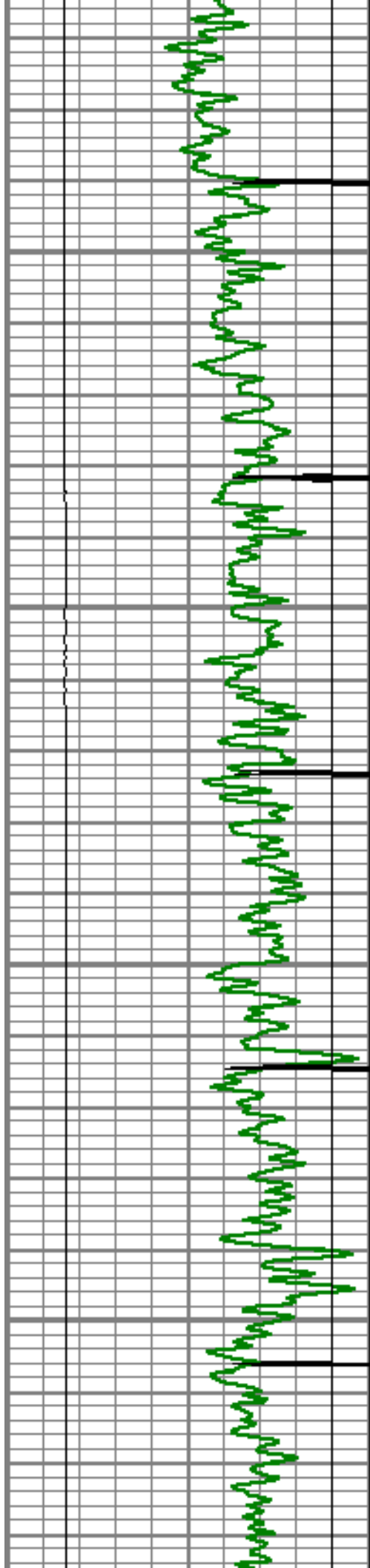
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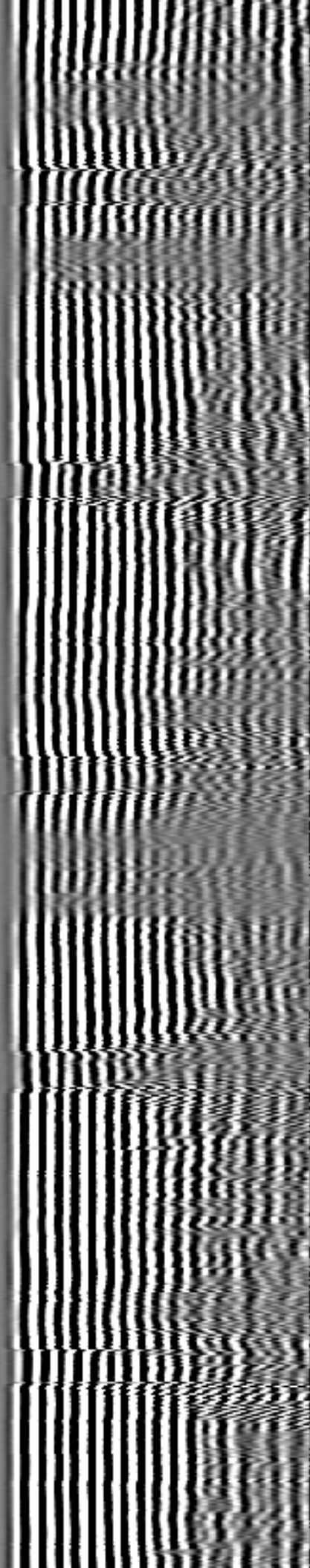
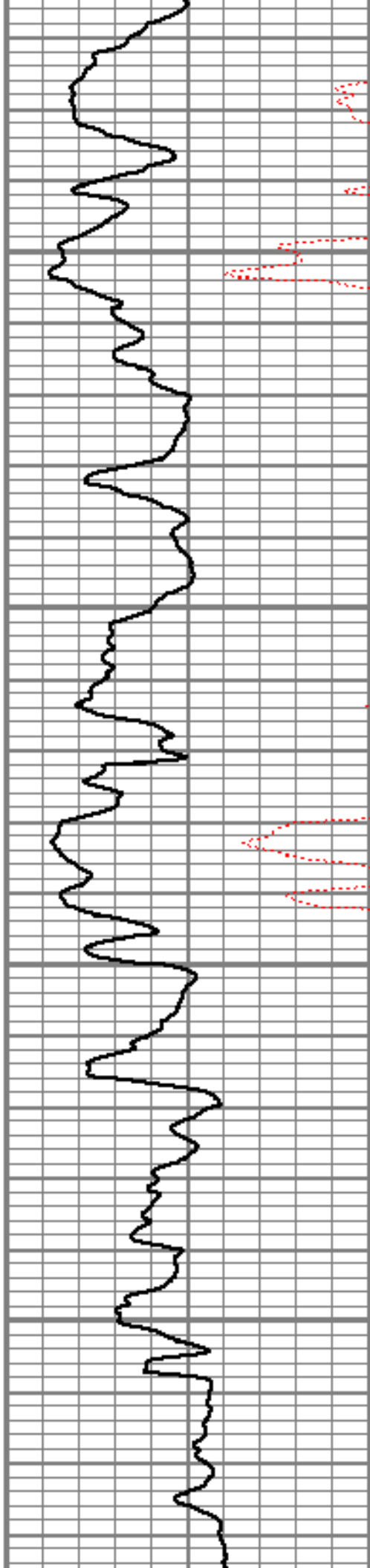


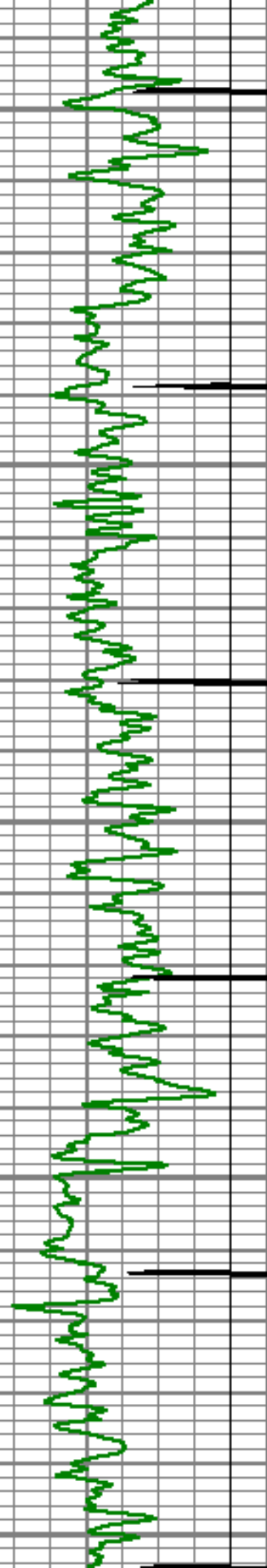
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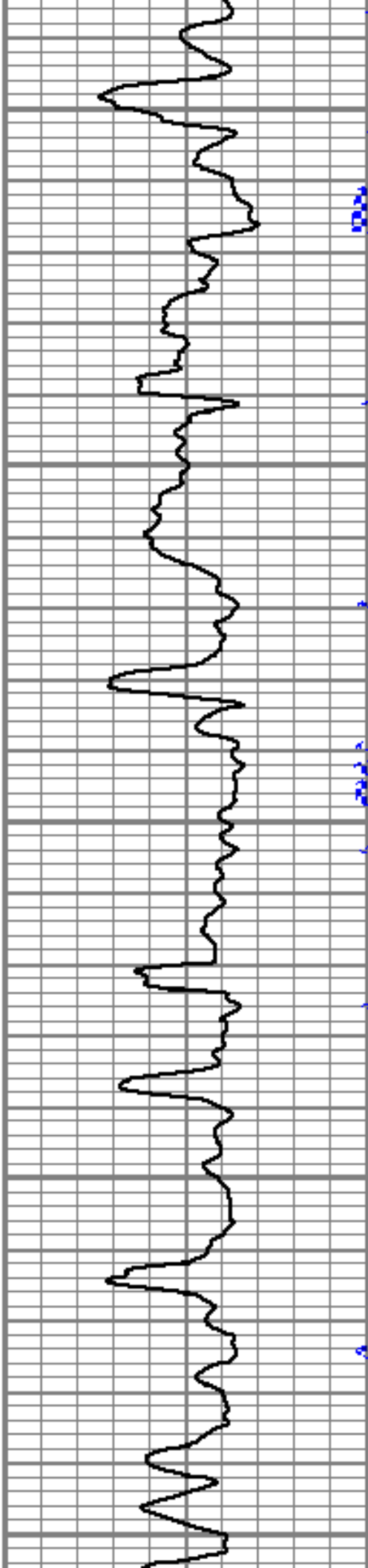
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4700

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4800



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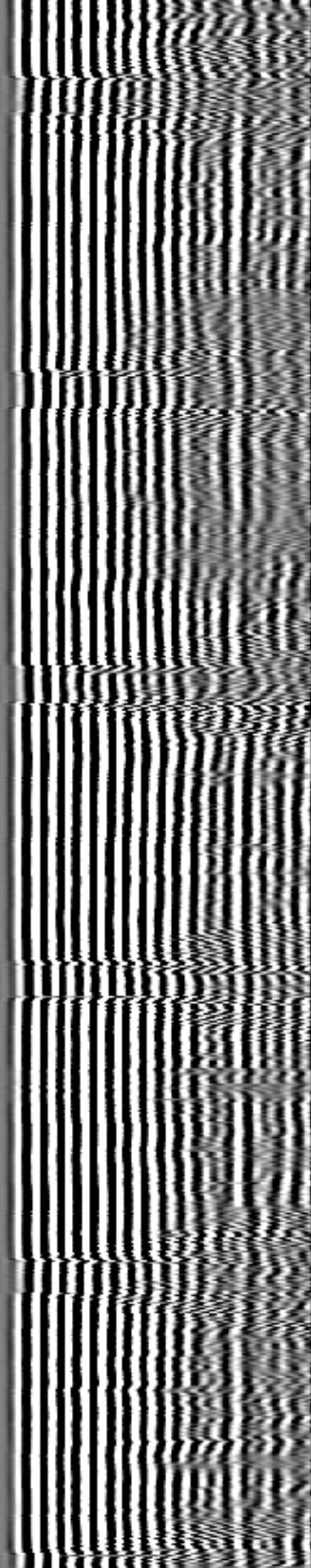
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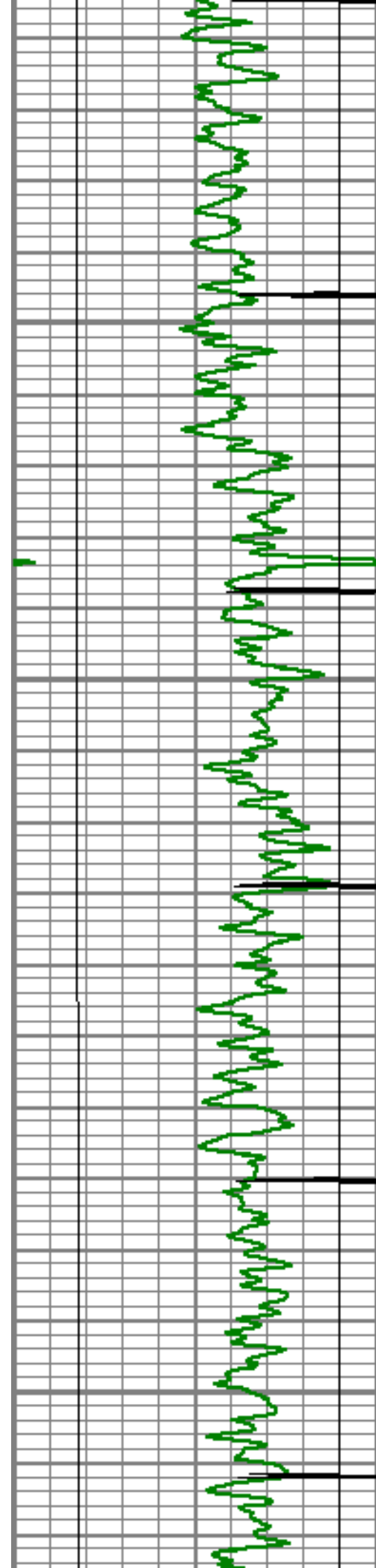
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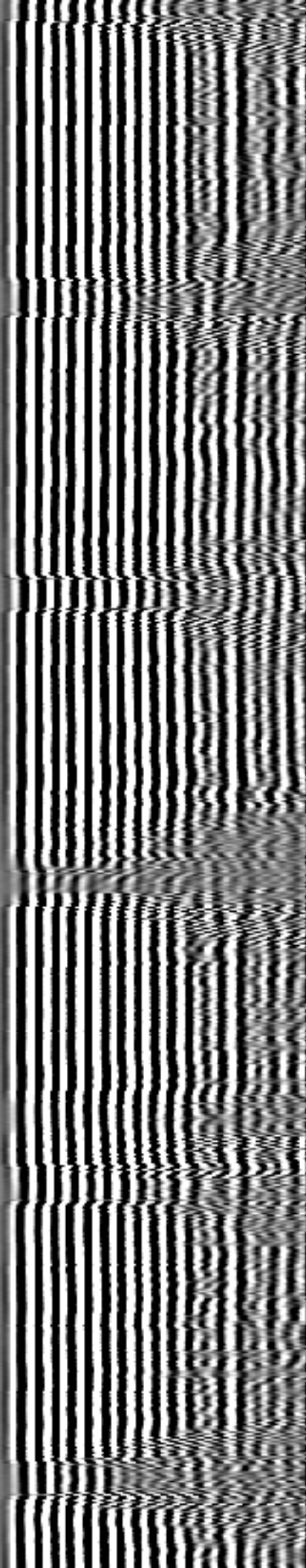
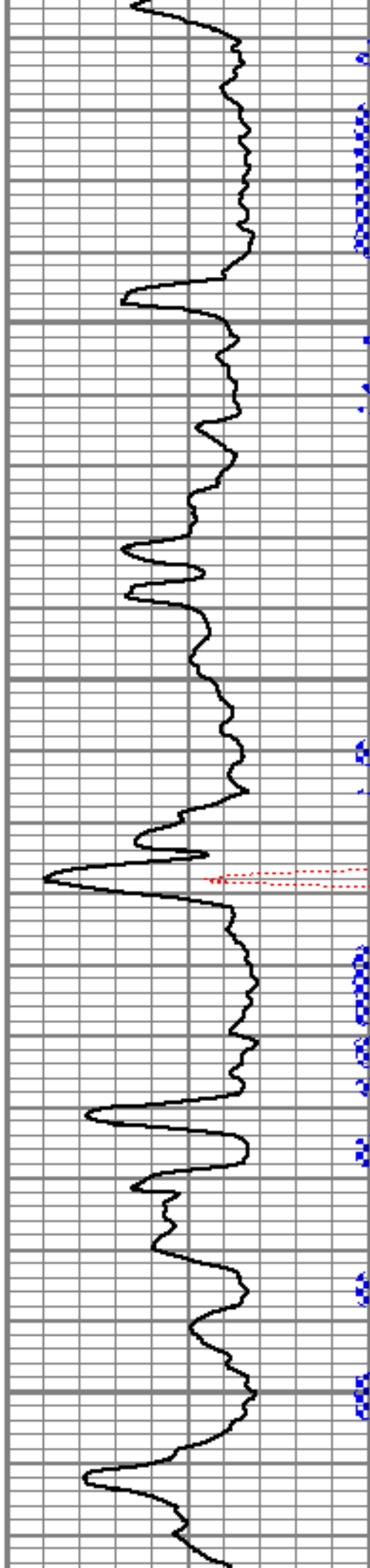


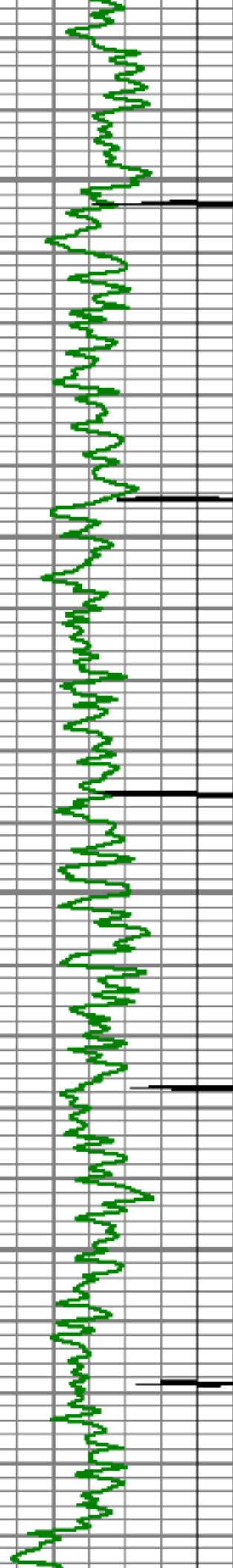
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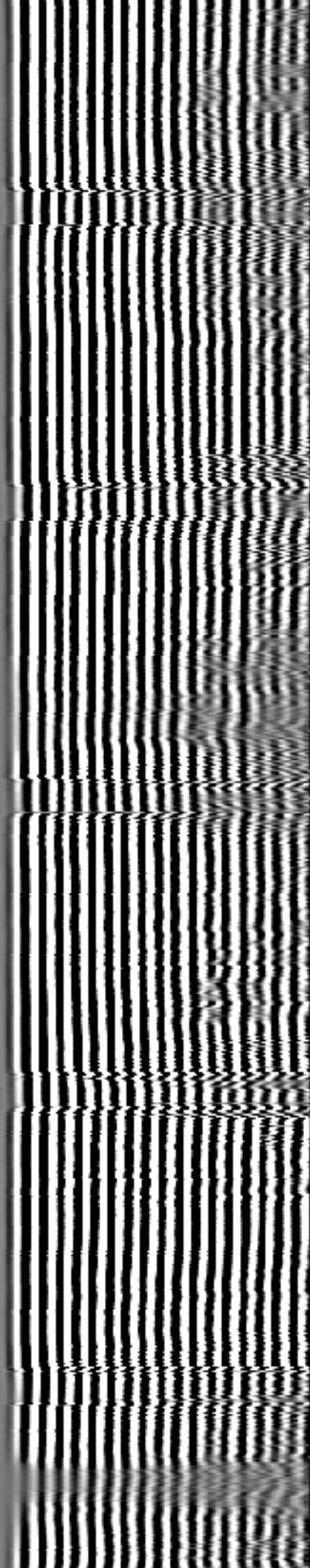
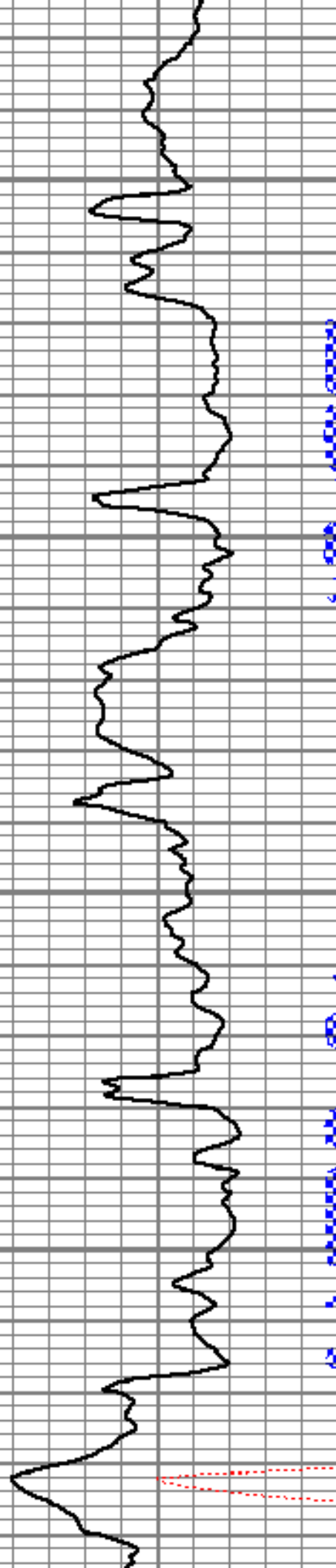


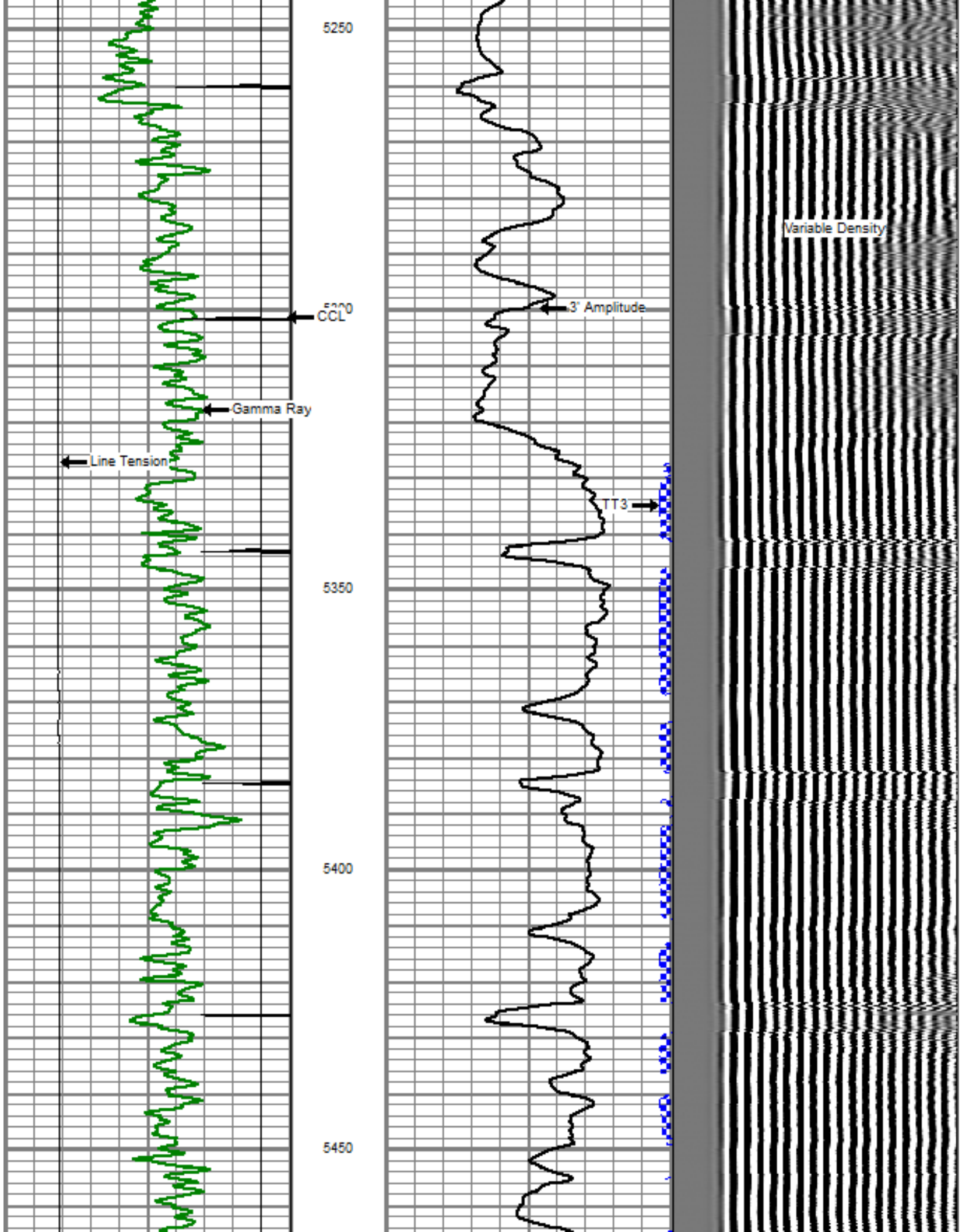
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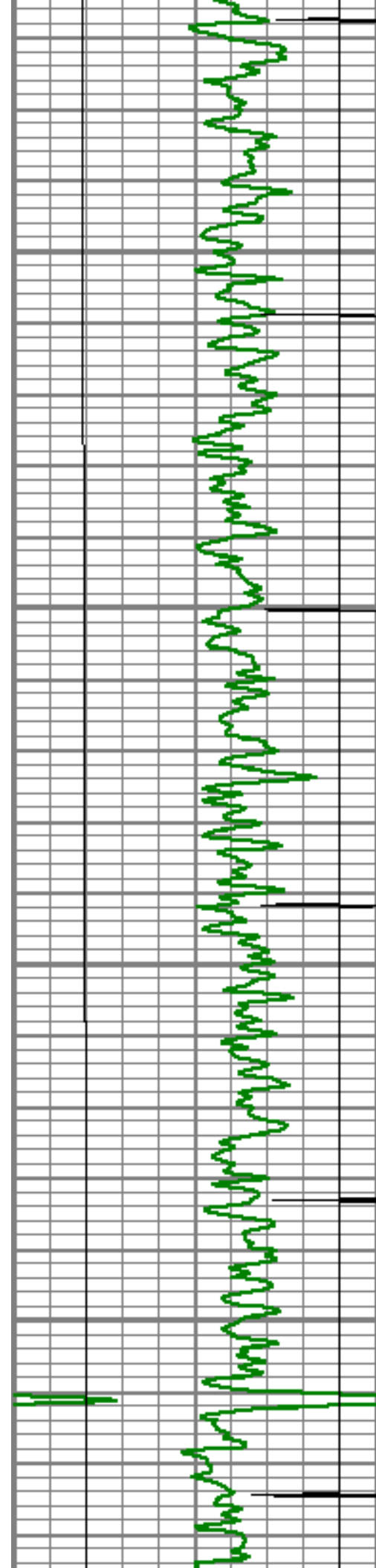
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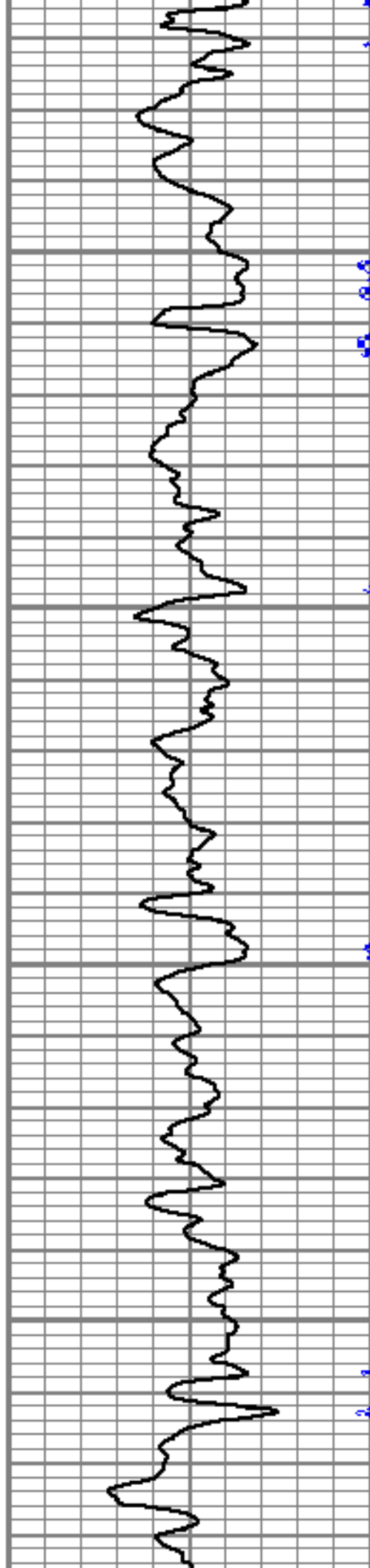


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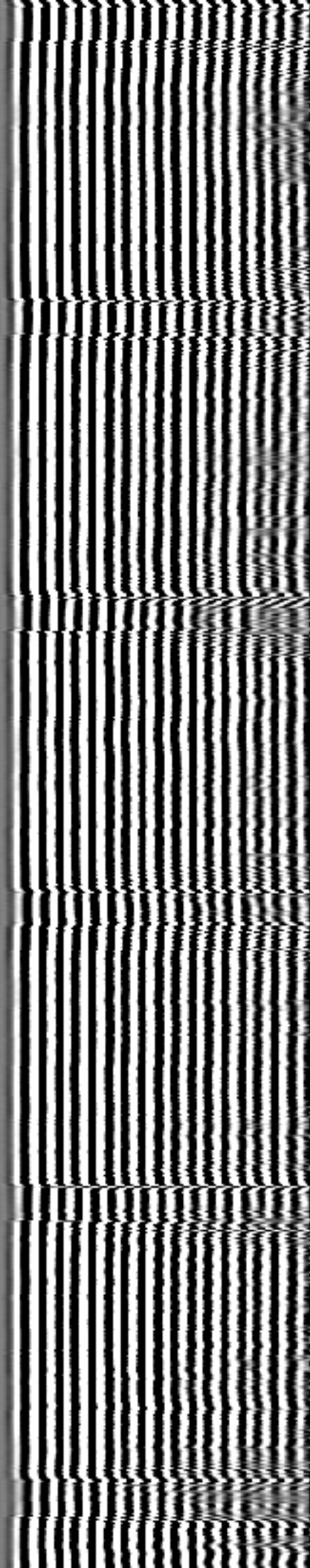
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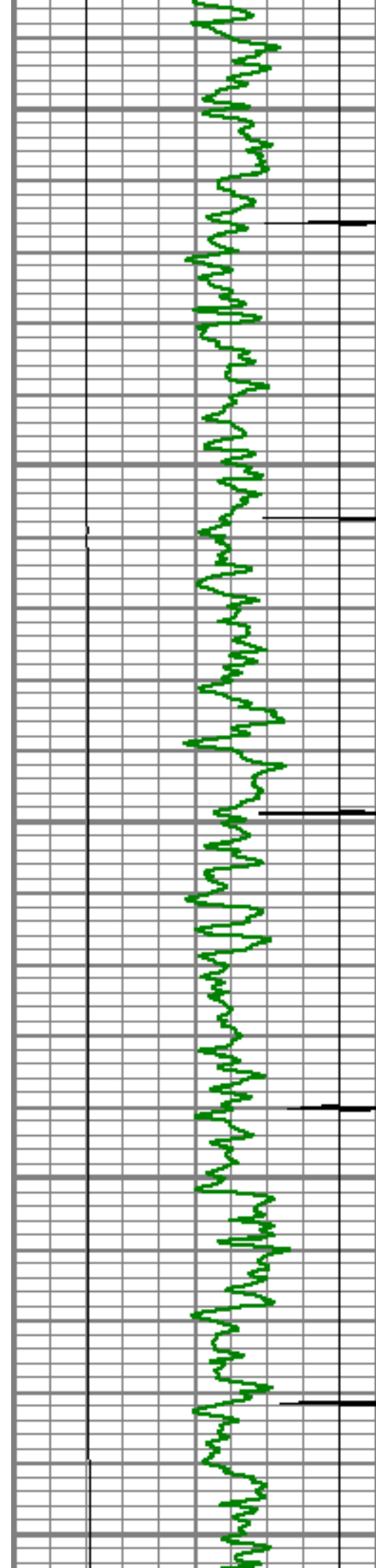
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2.3





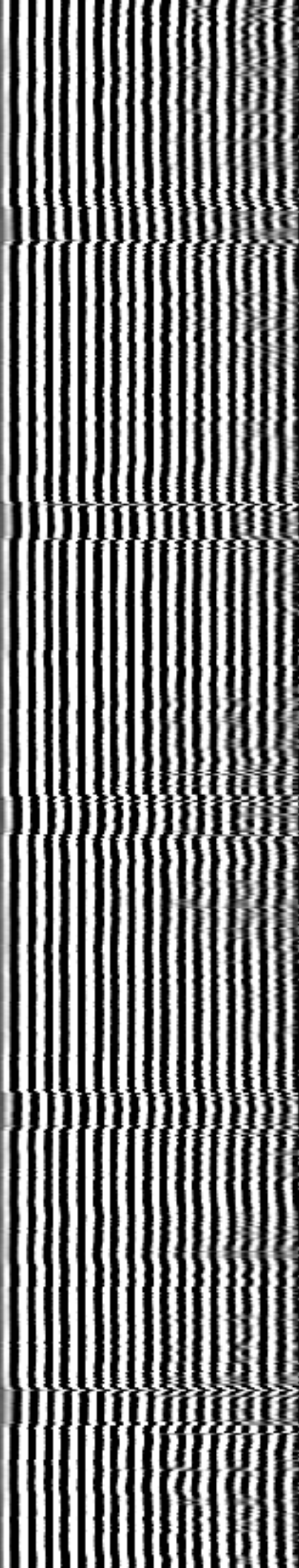
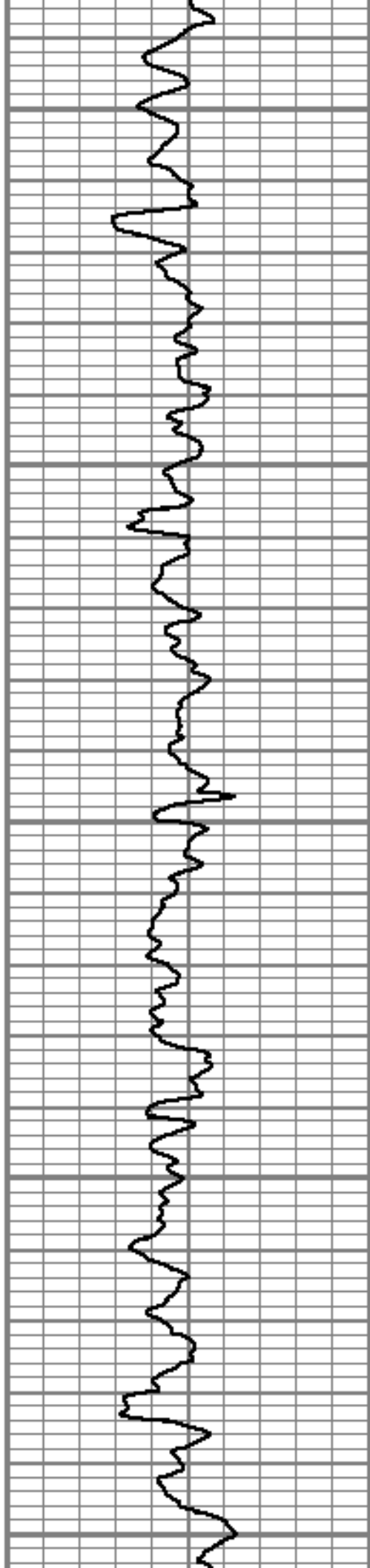
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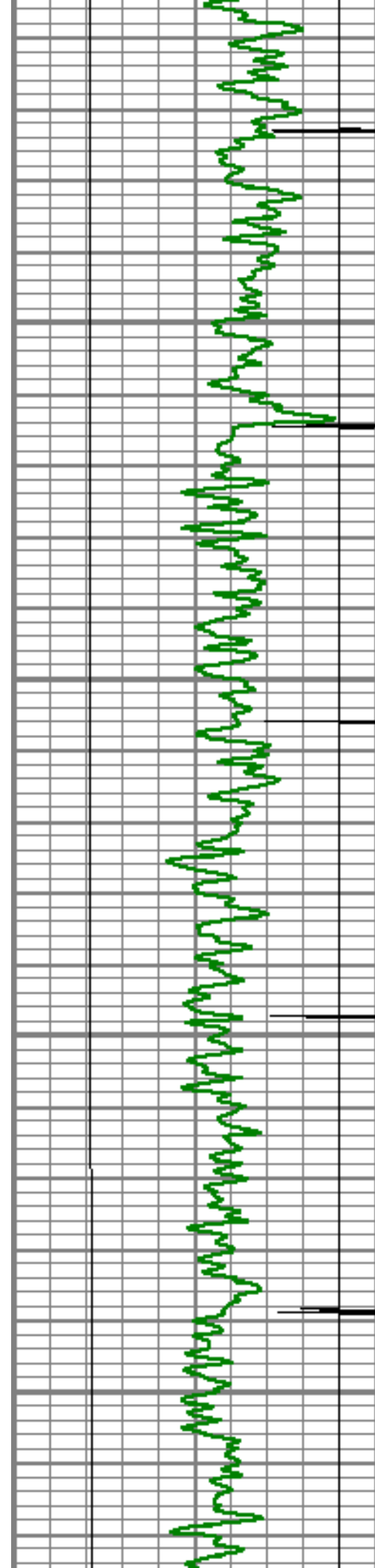
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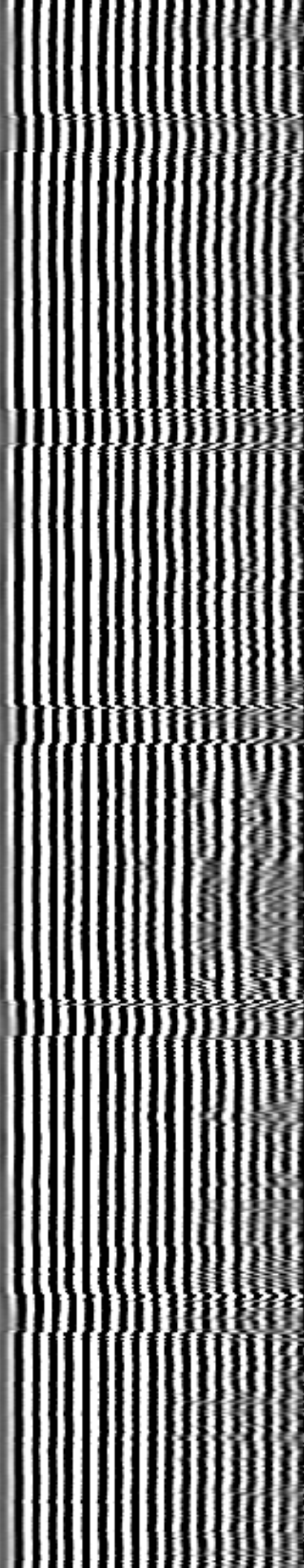
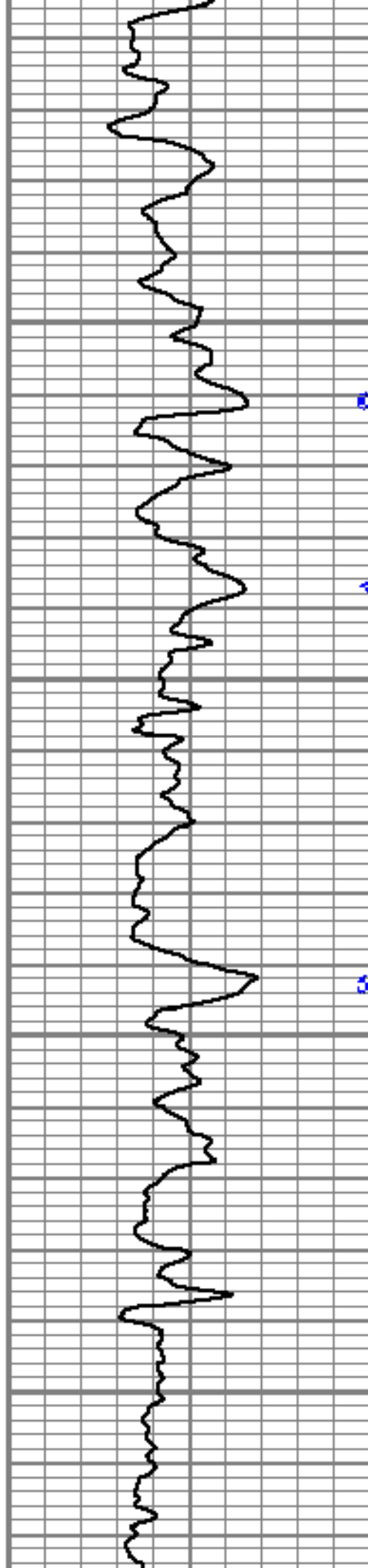


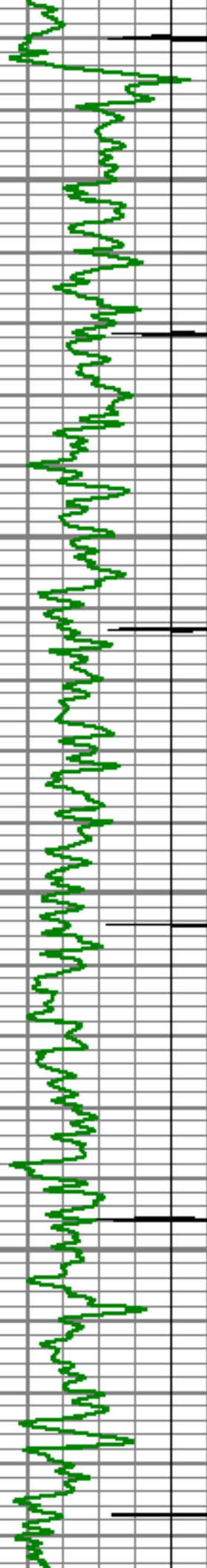
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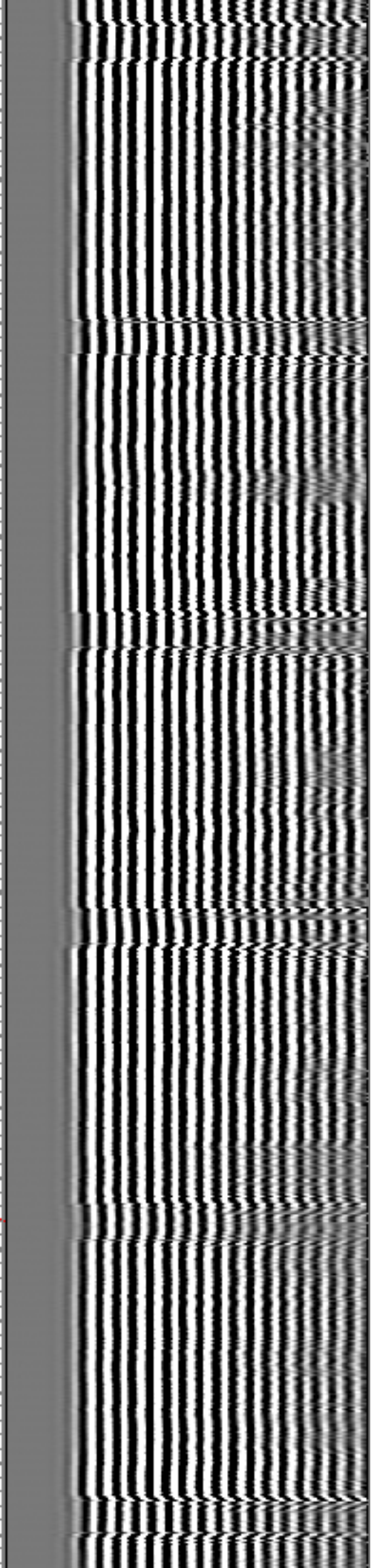
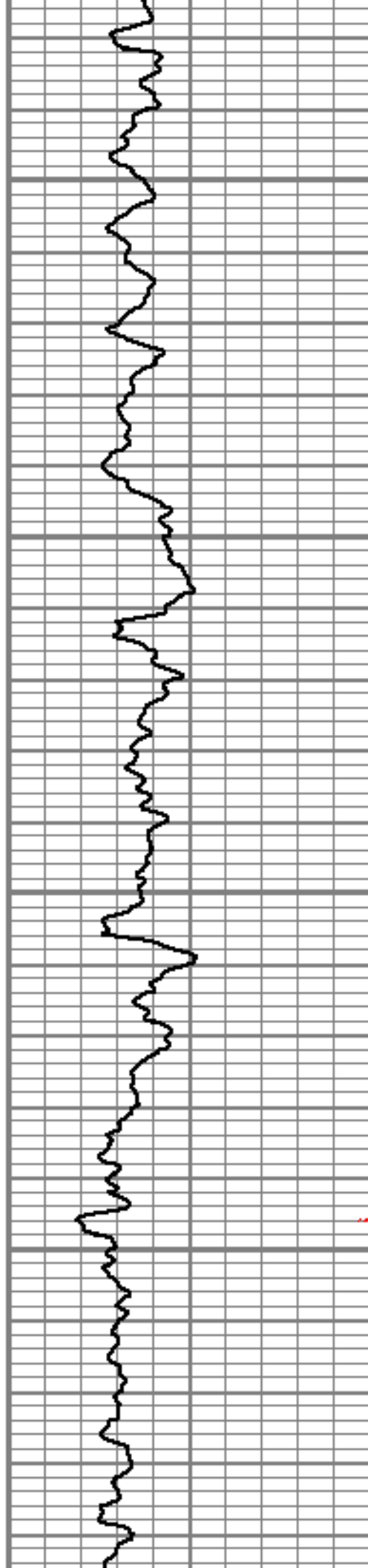


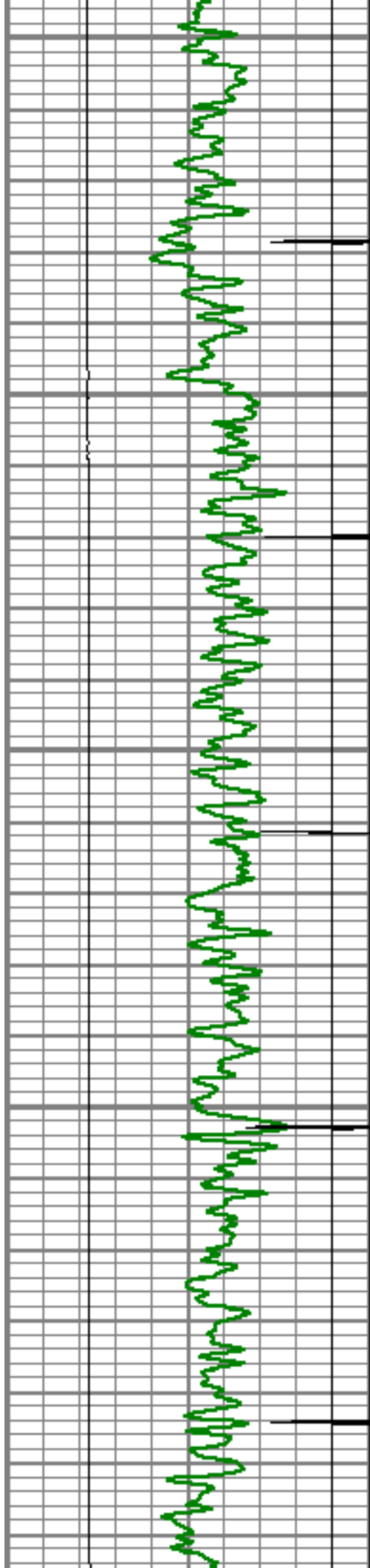
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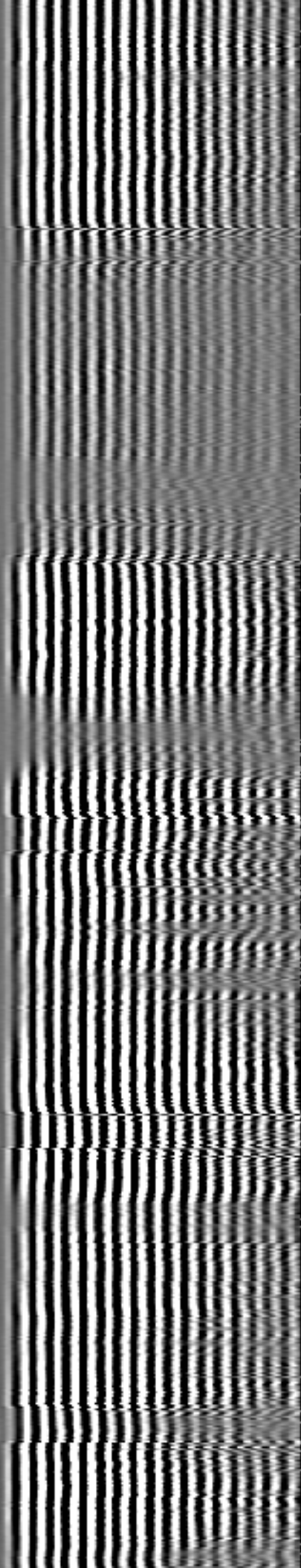
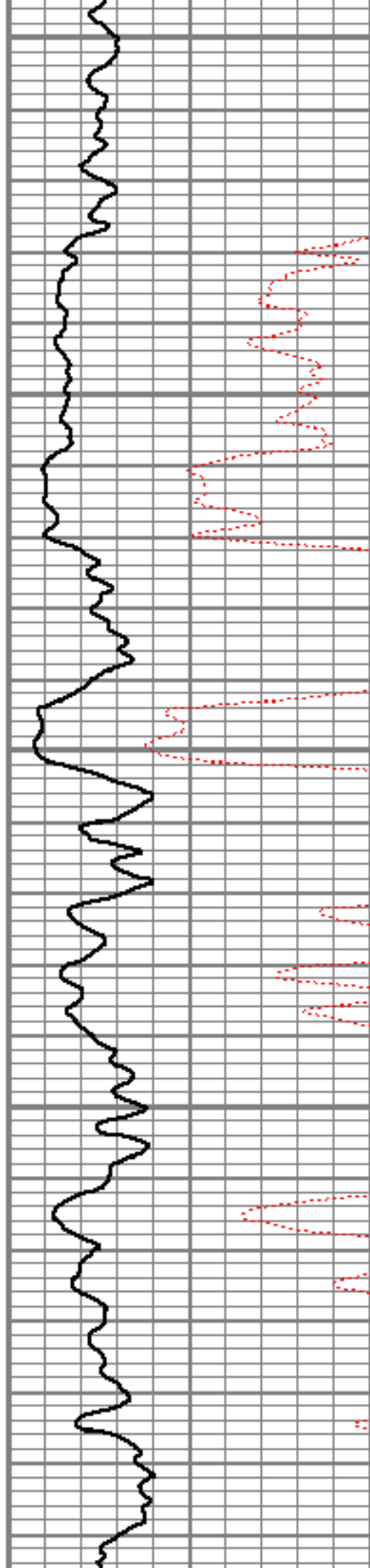
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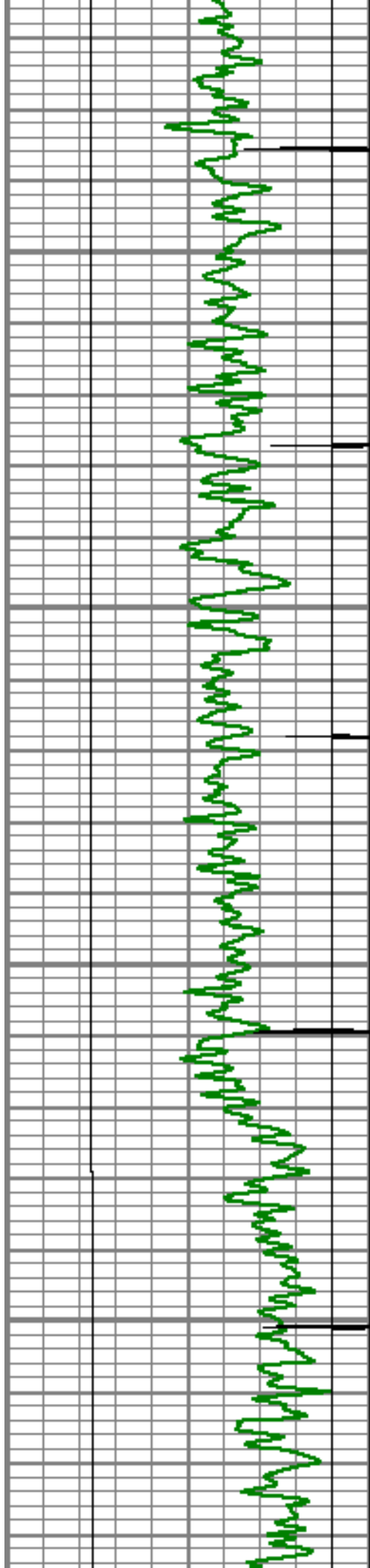
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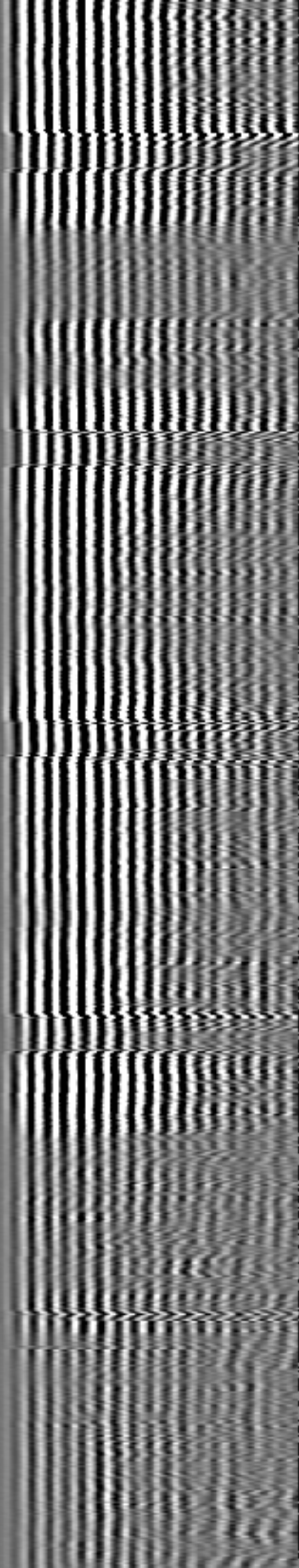
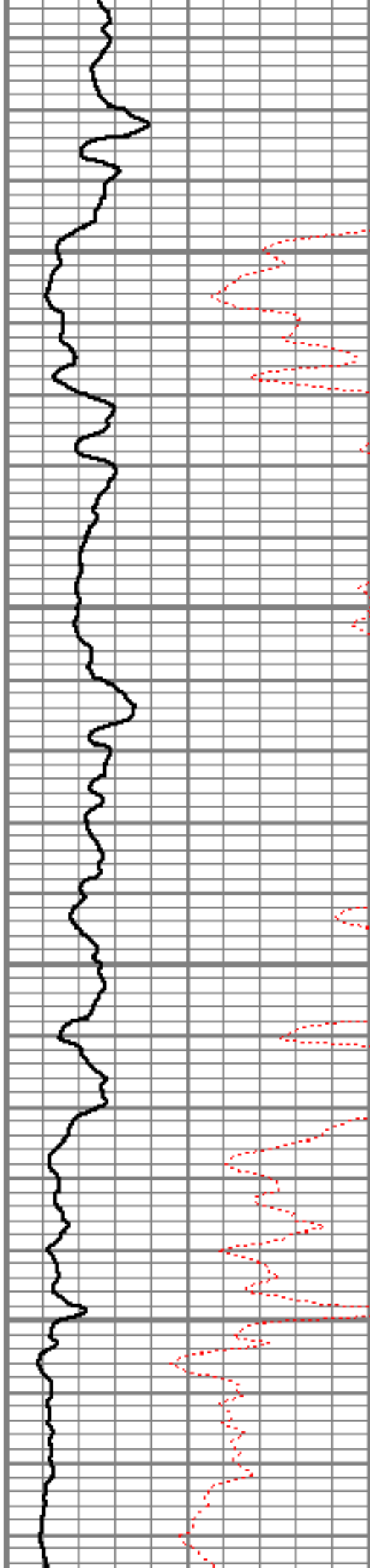


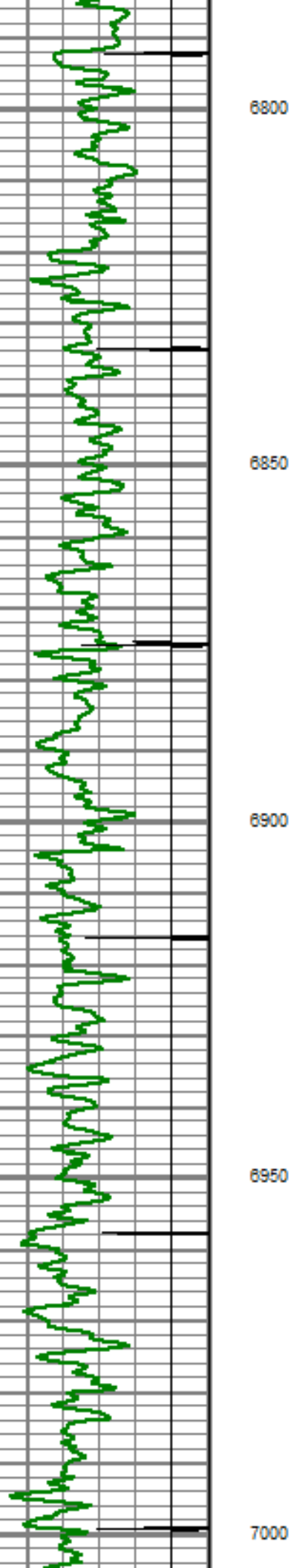
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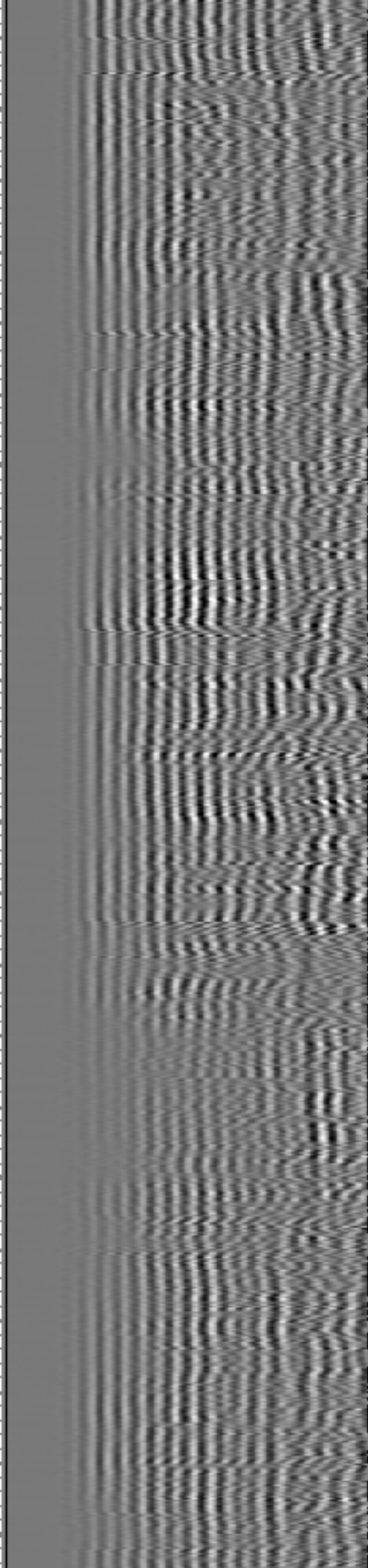
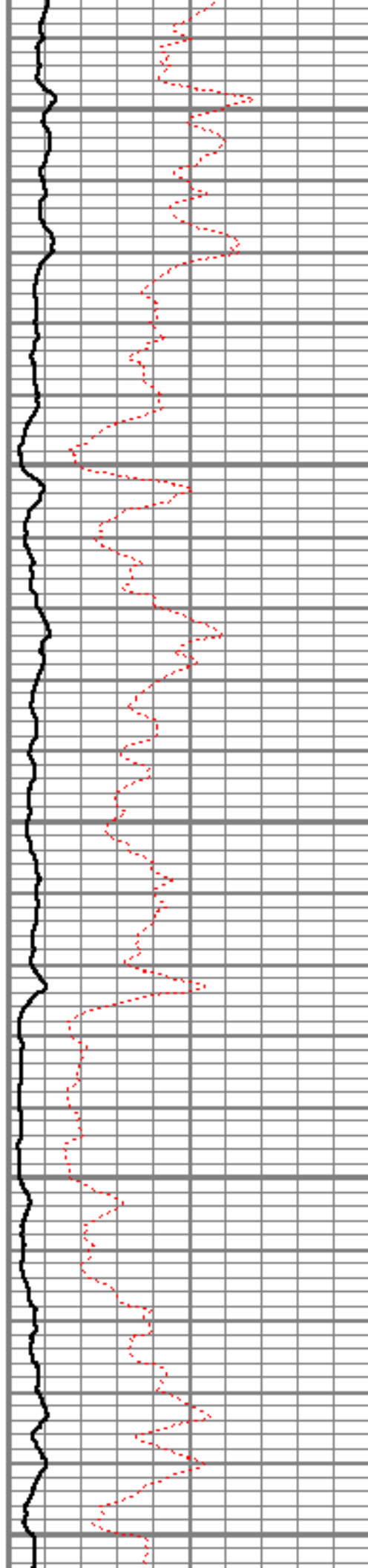
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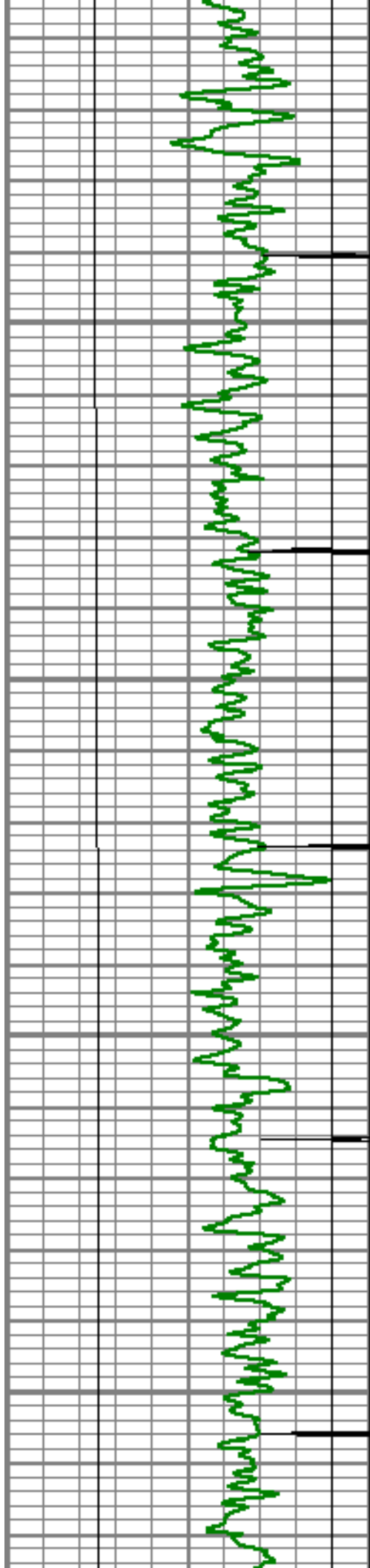
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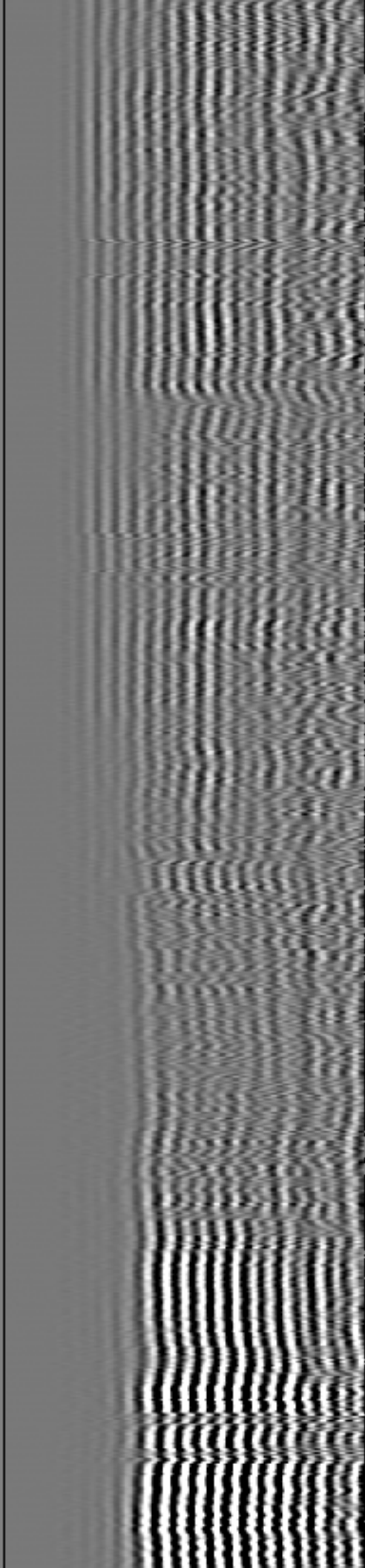
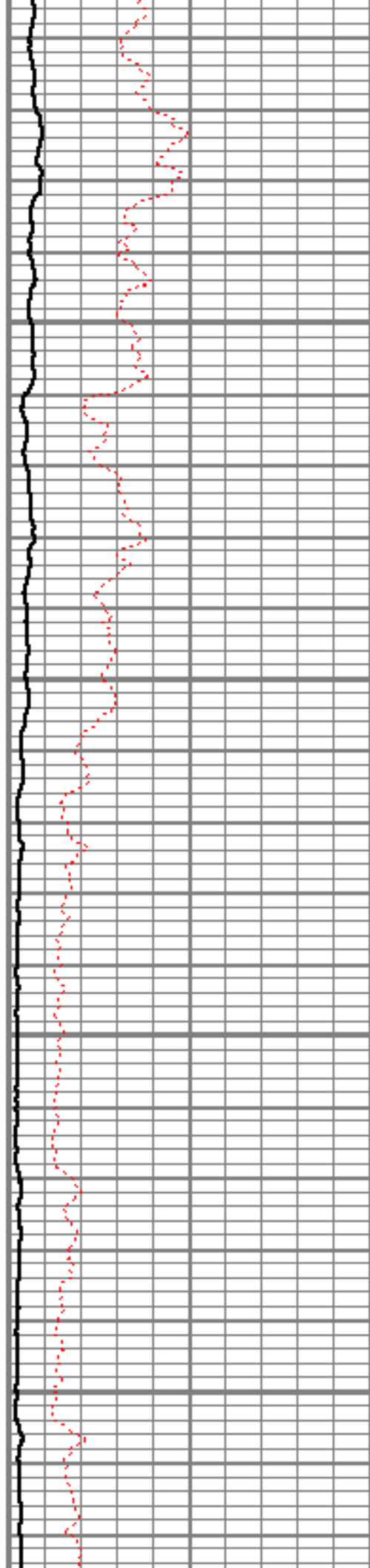


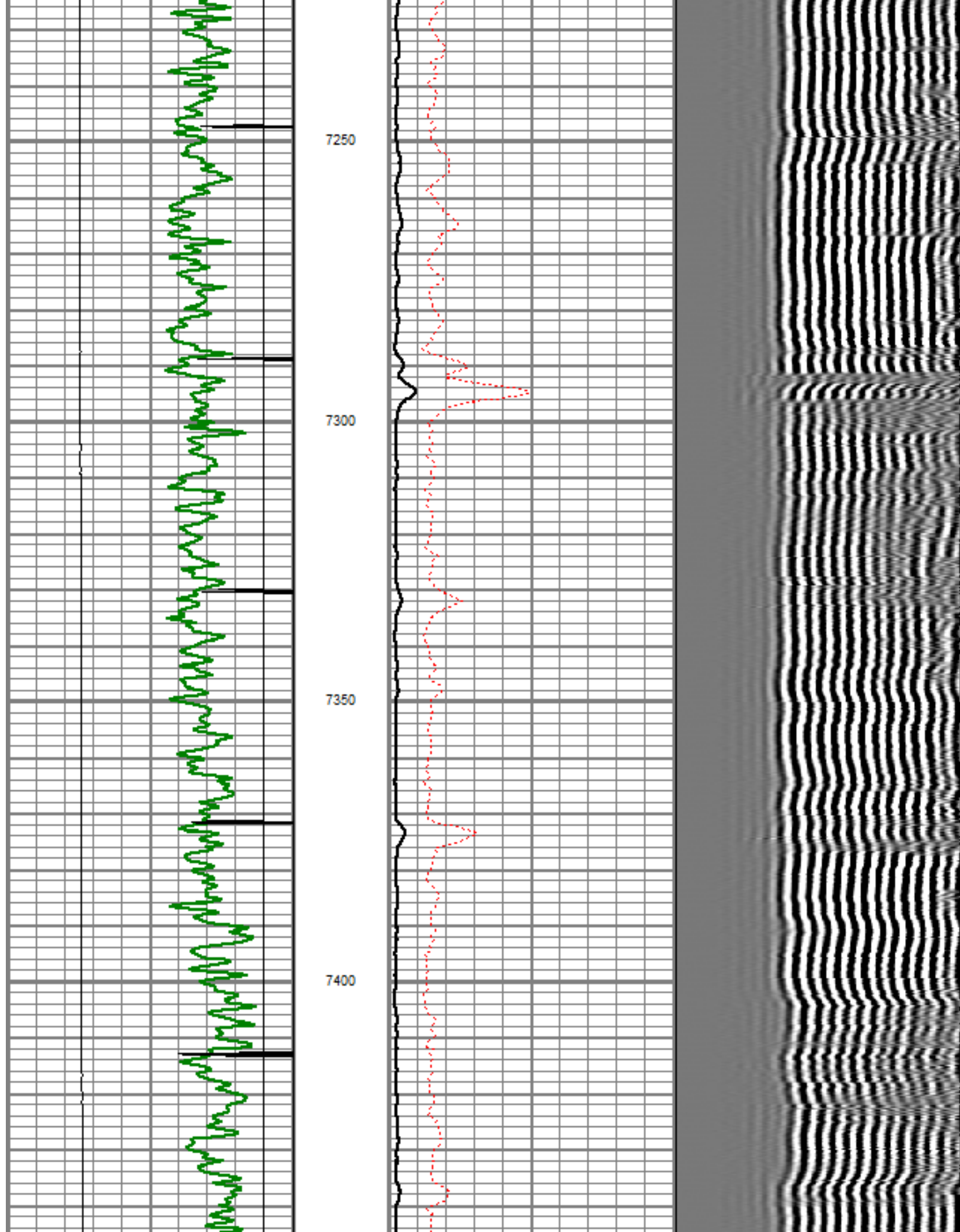
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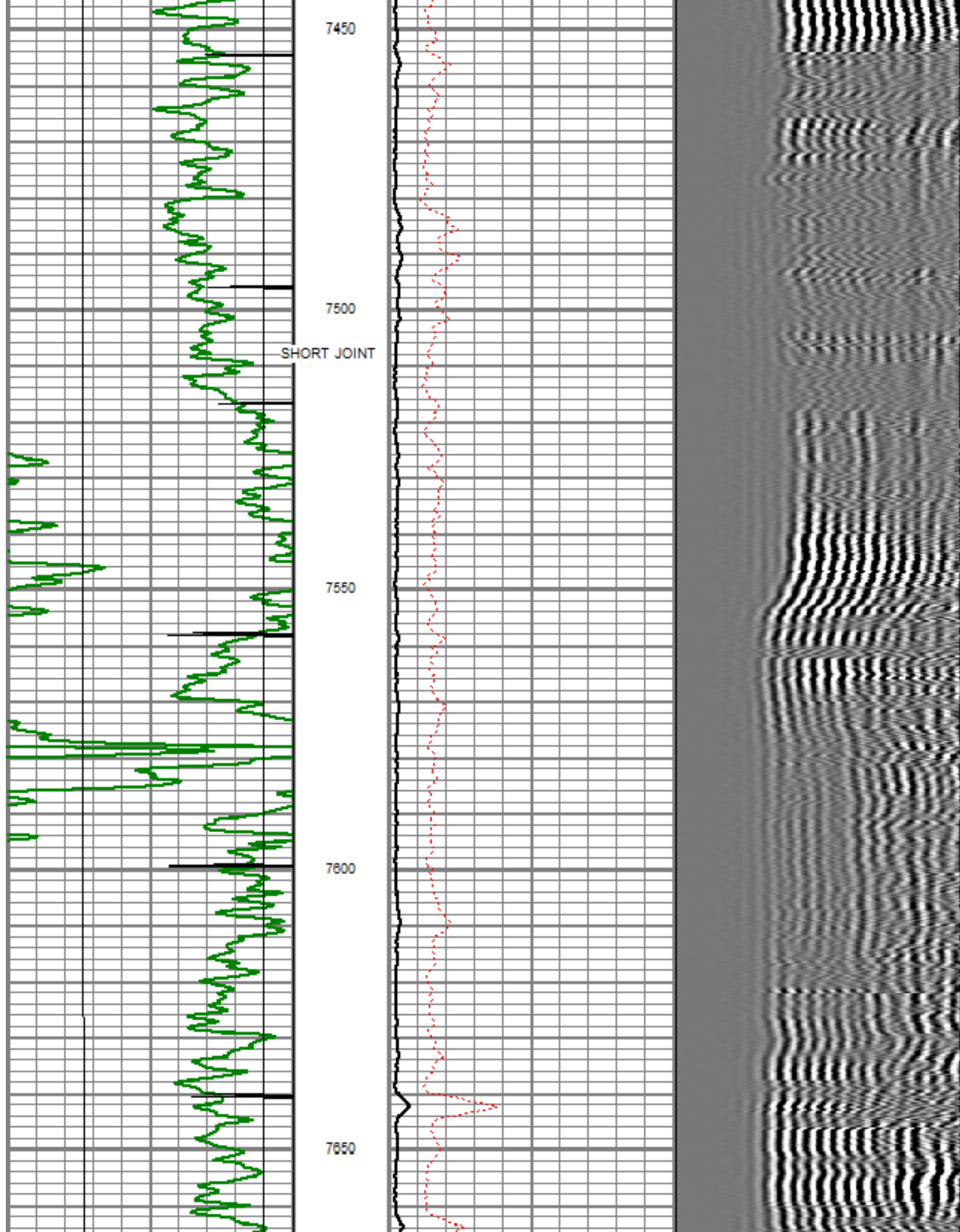
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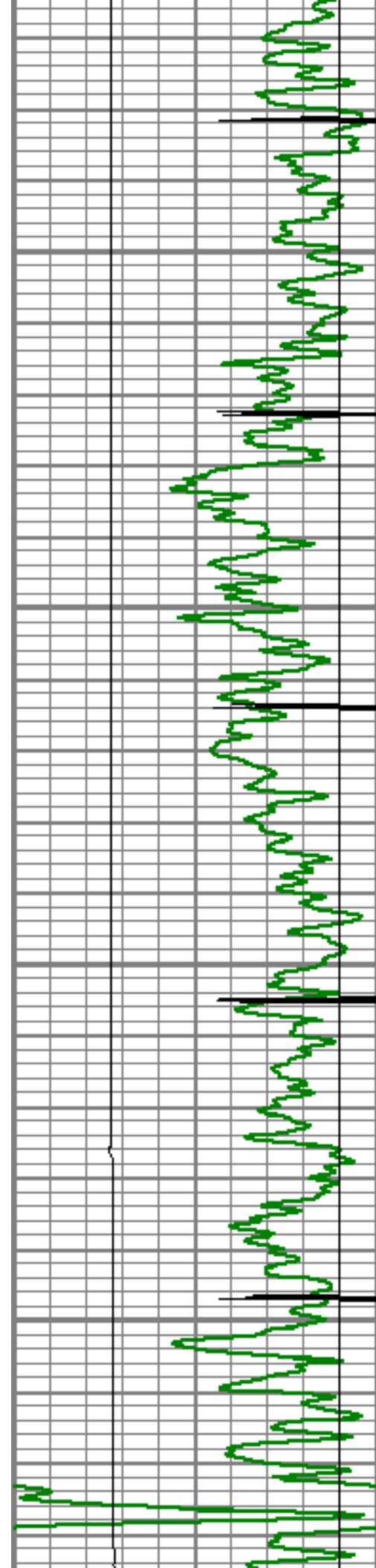
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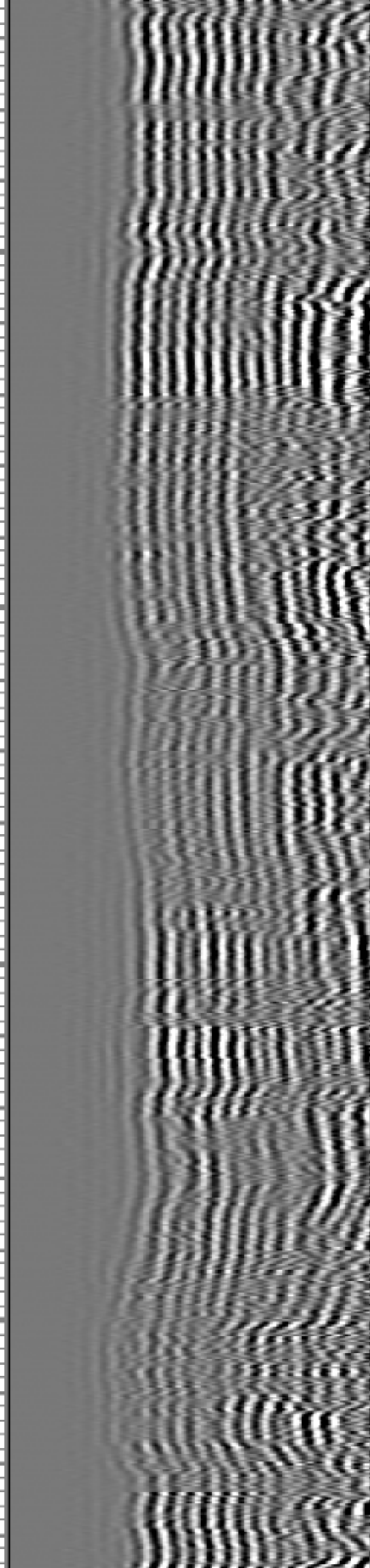
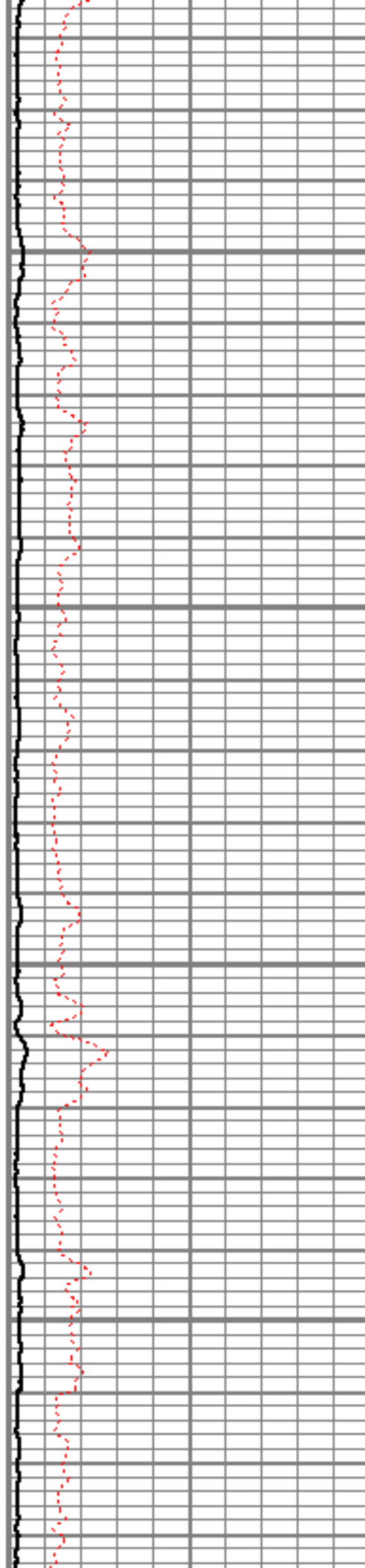


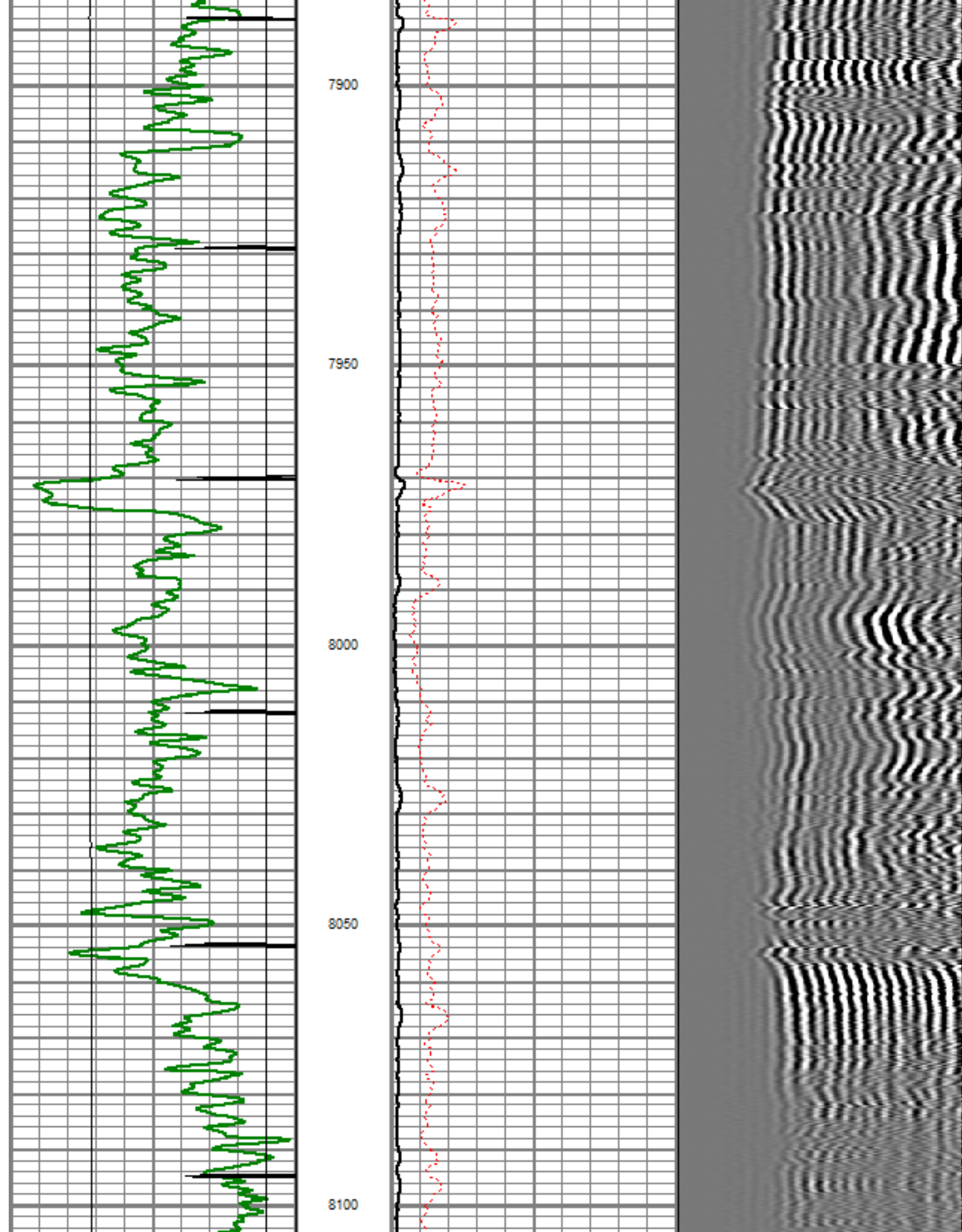
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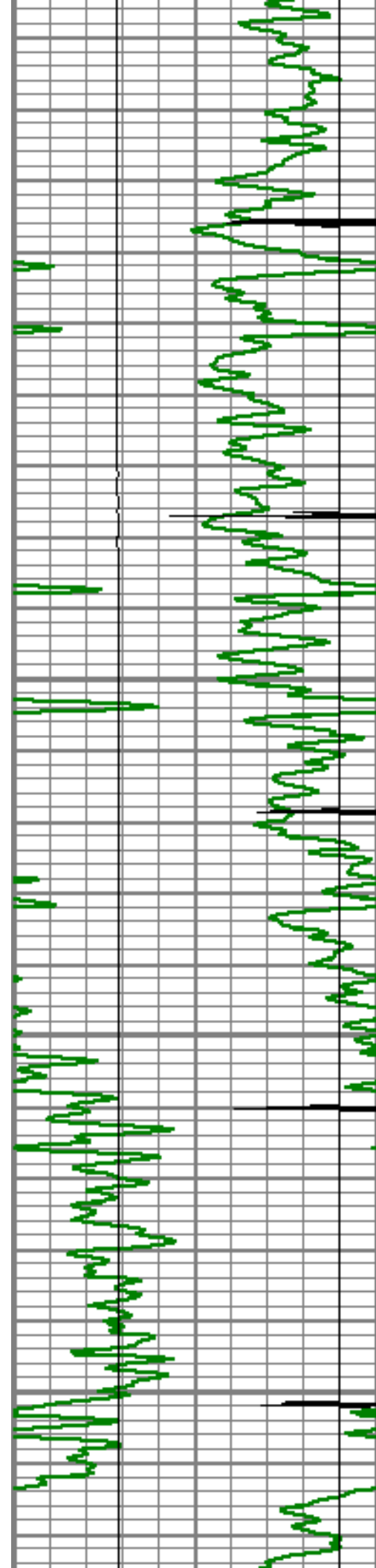
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7800

7850





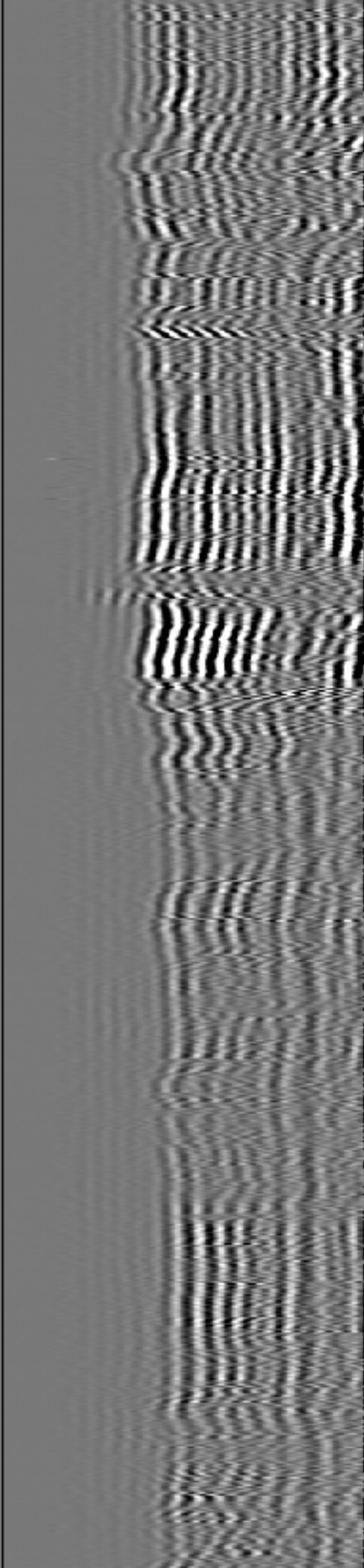
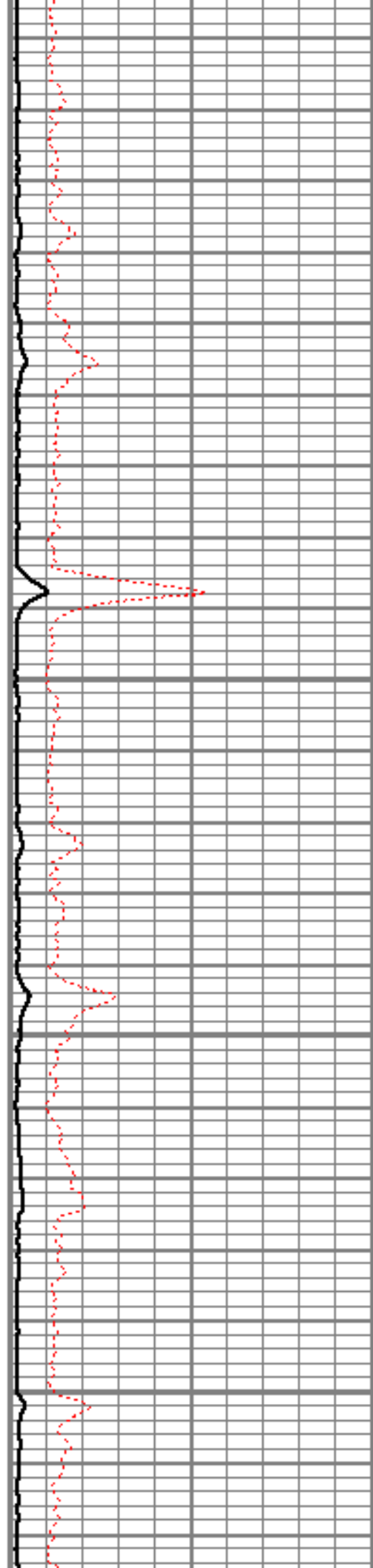


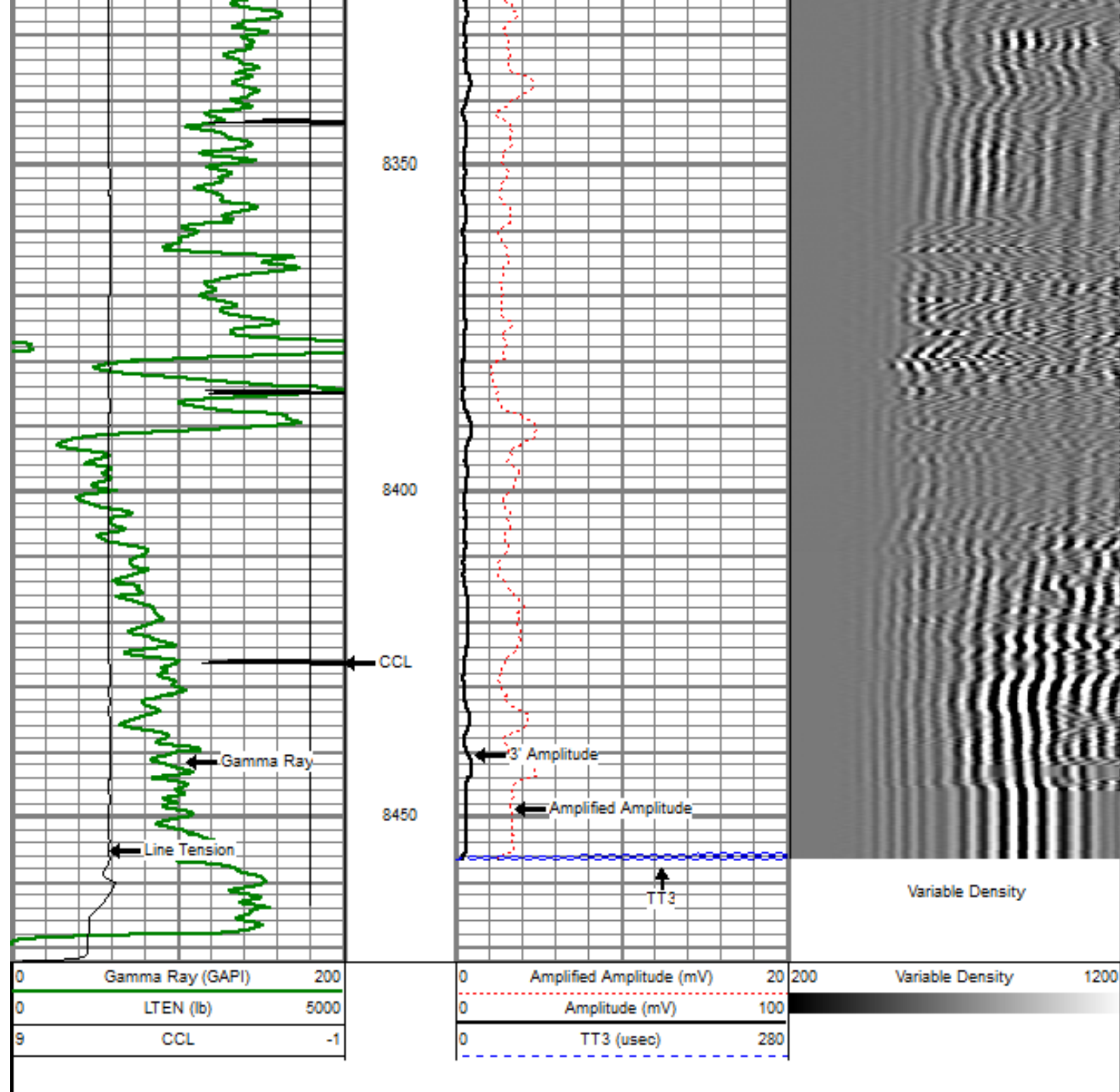
8150

8200

8250

8300





| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|-----------|---|----------|---------|---------|
| | | | titan Titan Cable Head Go Pin. | 1.02 | 1.44 | 1.50 |
| | | | Centralizer-Probe (CENT-PROBE-1) Probe Bowspring Centralizer | 2.88 | 2.75 | 10.00 |

| | | | | | |
|---|-------|--|---|------|-------|
| WVF3 | 16.56 | | CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.77.1) Probe 2.75" Dual Receiver Bond | 2.75 | 60.00 |
| WVF5 | 15.56 | | | | |
| | | | Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer | 2.88 | 2.75 |
| | | | | | 10.00 |
| CCL | 8.21 | | CCL-PRB_CCL_2MAG (PRB_CCL_2MAG_02.02) Probe 2 Magnet CCL | 2.75 | |
| | | | | | |
| | | | GR-PROBE_GR (PRB_GR_275_01) Probe stand alone Gamma Ray Tool | 4.54 | 2.75 |
| GR | 3.63 | | | | 30.00 |
| | | | TEMP-Comprobe (TEMP_CMPRB_1375_01) Positive pulse Temp tool | 2.88 | 1.38 |
| TEMP | 0.17 | | | | 15.00 |
| Dataset: canyon creek 4-13.db: field/well/run1/pass4OH Total Length: 24.98 ft Total Weight: 126.50 lb O.D. 2.75 in | | | | | |



Company
Well
Field
County
State

ENCANA OIL & GAS (USA) INC
CANYON CREEK 4-13
WATTENBERG
BOULDER
COLORADO