

CEMENT BOND LOG

Mesa Wireline

Company ENCANA OIL & GAS INC. (USA)
Well BILLINGS 22-18
Field WATTENBERG
County WELD
State COLORADO

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County WELD
State COLORADO

Location: SHL: 254' FNL & 445' FNL MMWV
BHL: 1960' FNL & 1980' FNL SENW
SEC: 18 TWP: 3N RGE: 68W
Permanent Datum GROUND LEVEL Elevation 5214'
Log Measure of Foot KELLY BUSHING = 13'
Drilling Measured From KELLY BUSHING
Other Services NONE
Elevation K.B. 5227'
D.F. 5228'
G.L. 5214'

Date 12 FEB 2013

Run Number ONE
Depth Driller 8370'
Depth Logger 8318'
Bottom Logged Interval 8318'
Top Log Interval 2300'
Open Hole Size 7.875"
Type Fluid WATER
Density / Viscosity ~8.34 LBS/GAL
Max. Recorded Temp. 241 DegF
Estimated Cement Top 2930'

Time Well Ready N/A
Time Logger on Bottom N/A
Equipment Number 10801W / PBO1
Location AULT, CO
Recorded By BEN MILTON
Witnessed By TOM MAJORS
Borehole Record
Run Number Bit From To Size Weight From To
ONE 12.25" 0 685' N/A
TWO 7.875" 0 8370'

Casing Record
Surface String 8.625" 24# 0 640'
Prot. String
Production String 4.5" 11.6# 0 8368'
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

LOG CORRELATED TO PIONEER HIGH RESOLUTION INDUCTION LOG DATED 6 FEB 2013.

SHORT JOINT: 7350' - 7370'

WE APPRECIATE YOUR BUSINESS, MESA WIRELINE LLC, Ault CO. (970) 834-2495

SURFACE CASING

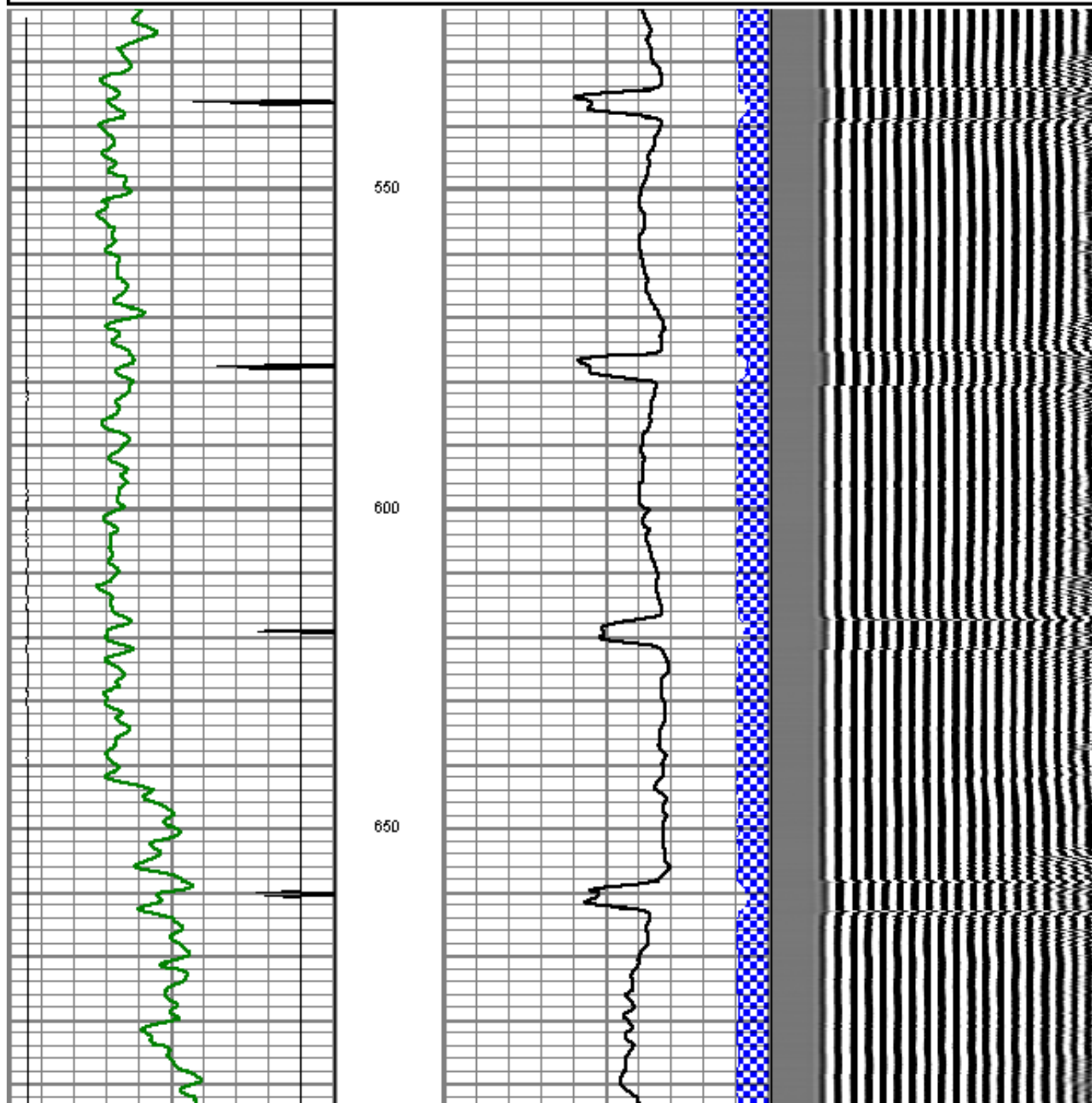


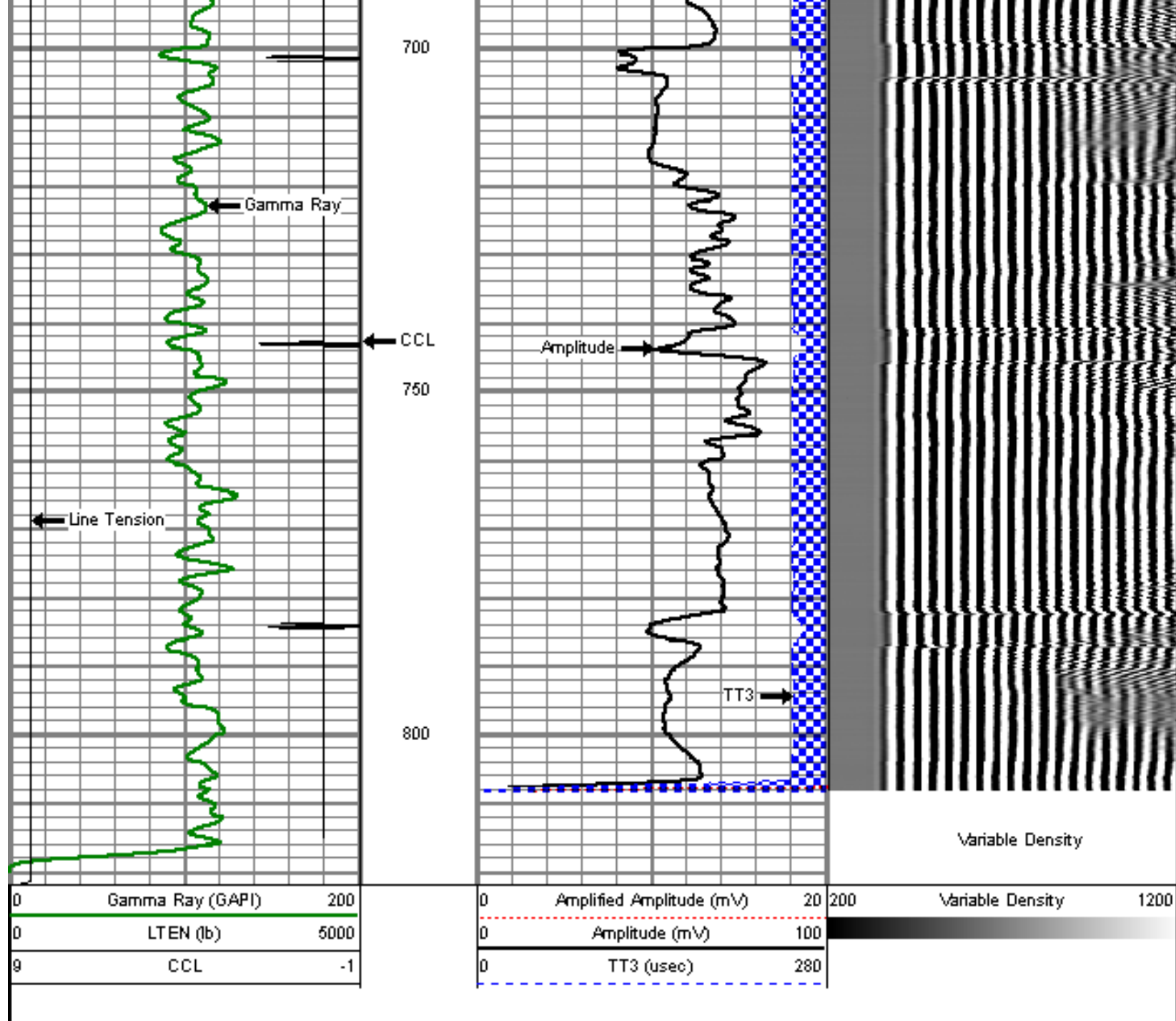
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Dataset Pathname: pass7
Presentation Format: dcbl_prb
Dataset Creation: Tue Feb 12 10:09:42 2013 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

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

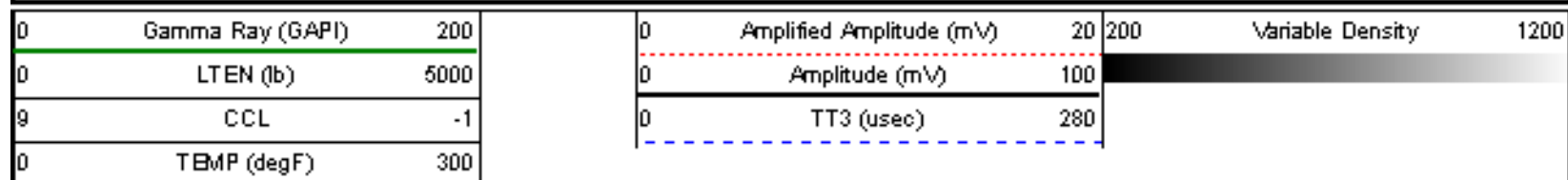


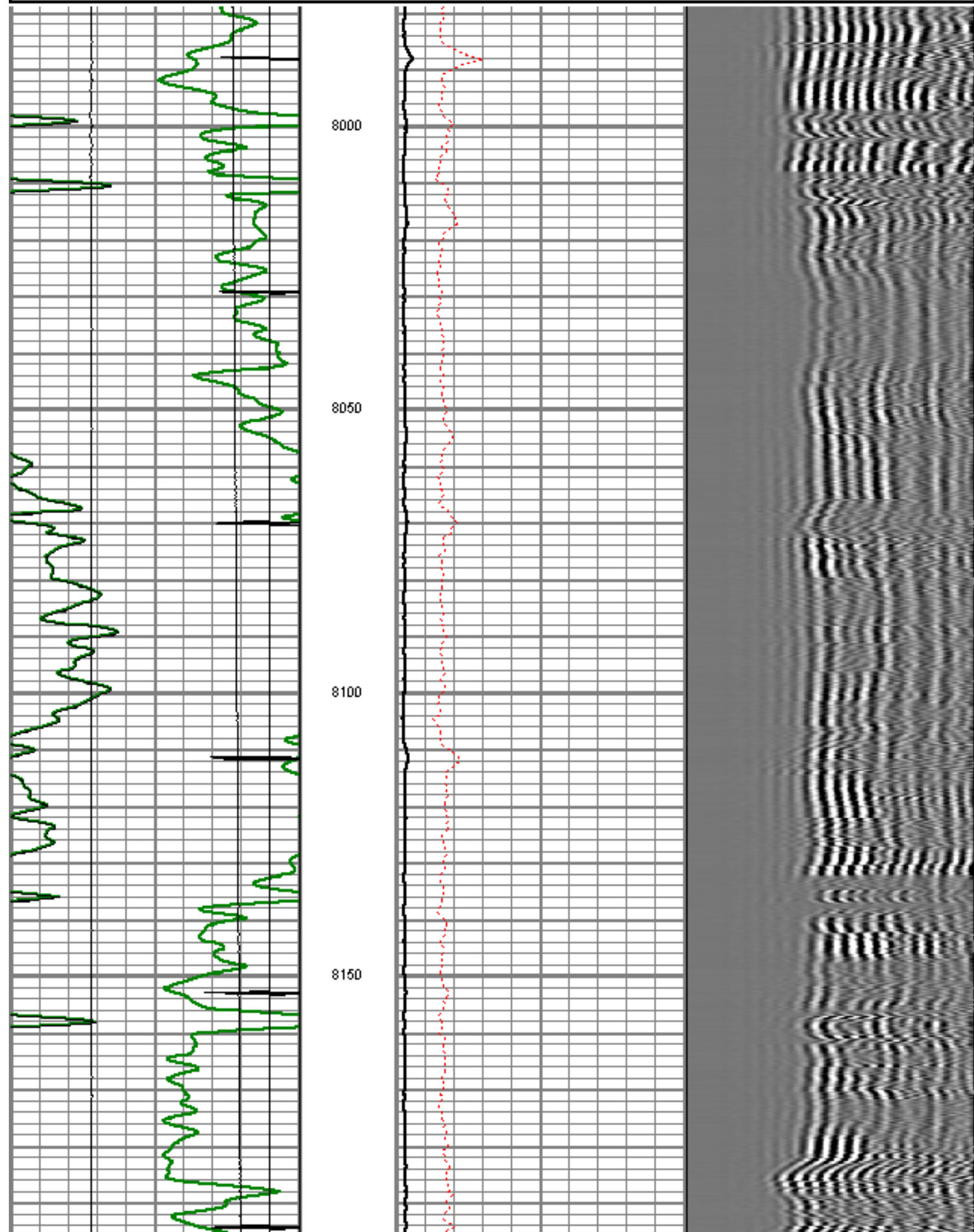


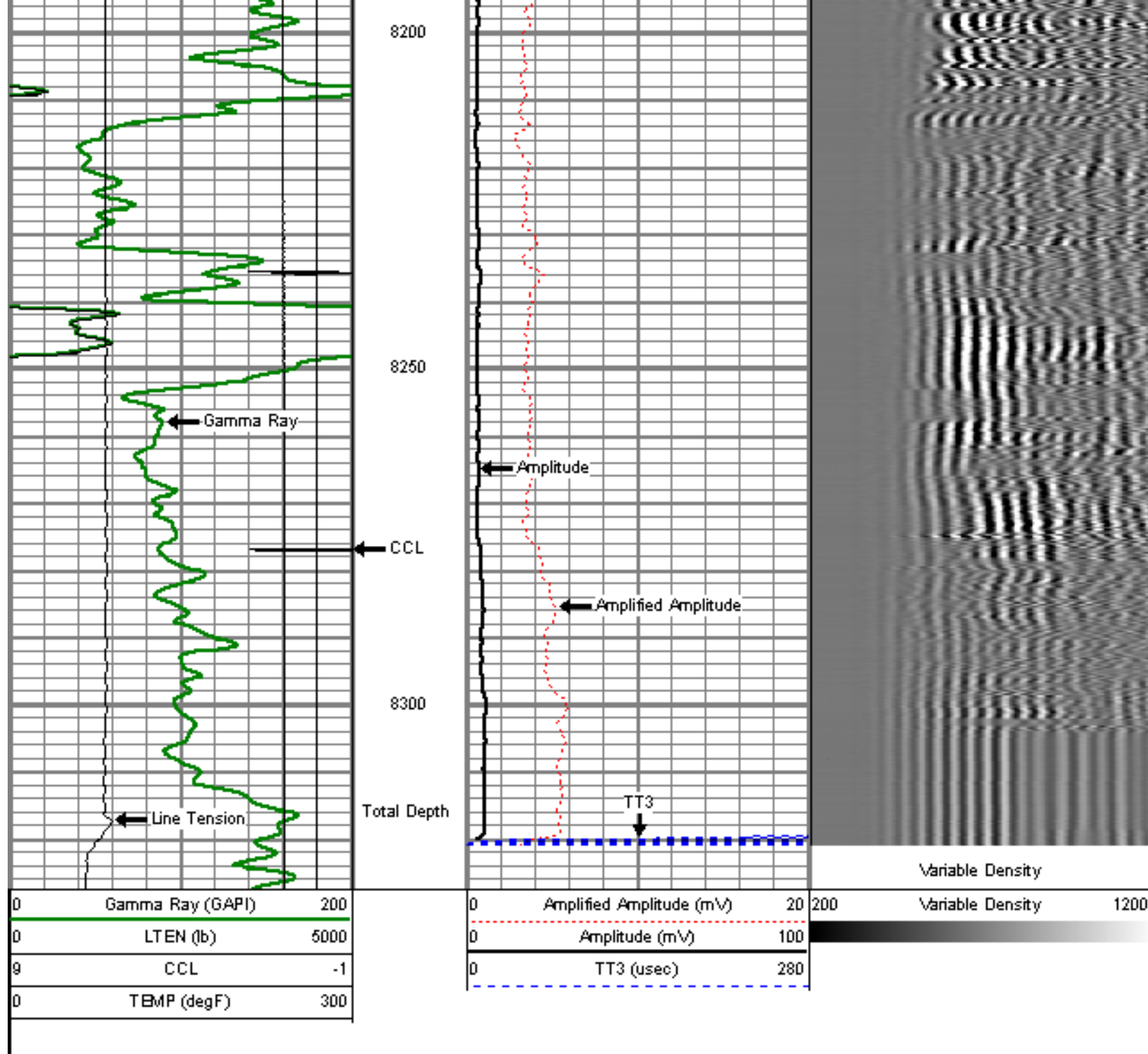
REPEAT PASS

5" = 100'

Database File: c:\documents and settings\xpmuser\desktop\data\billings 22-18.db
 Dataset Pathname: pass4
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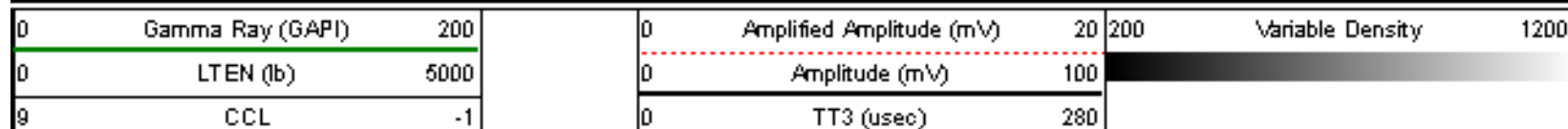


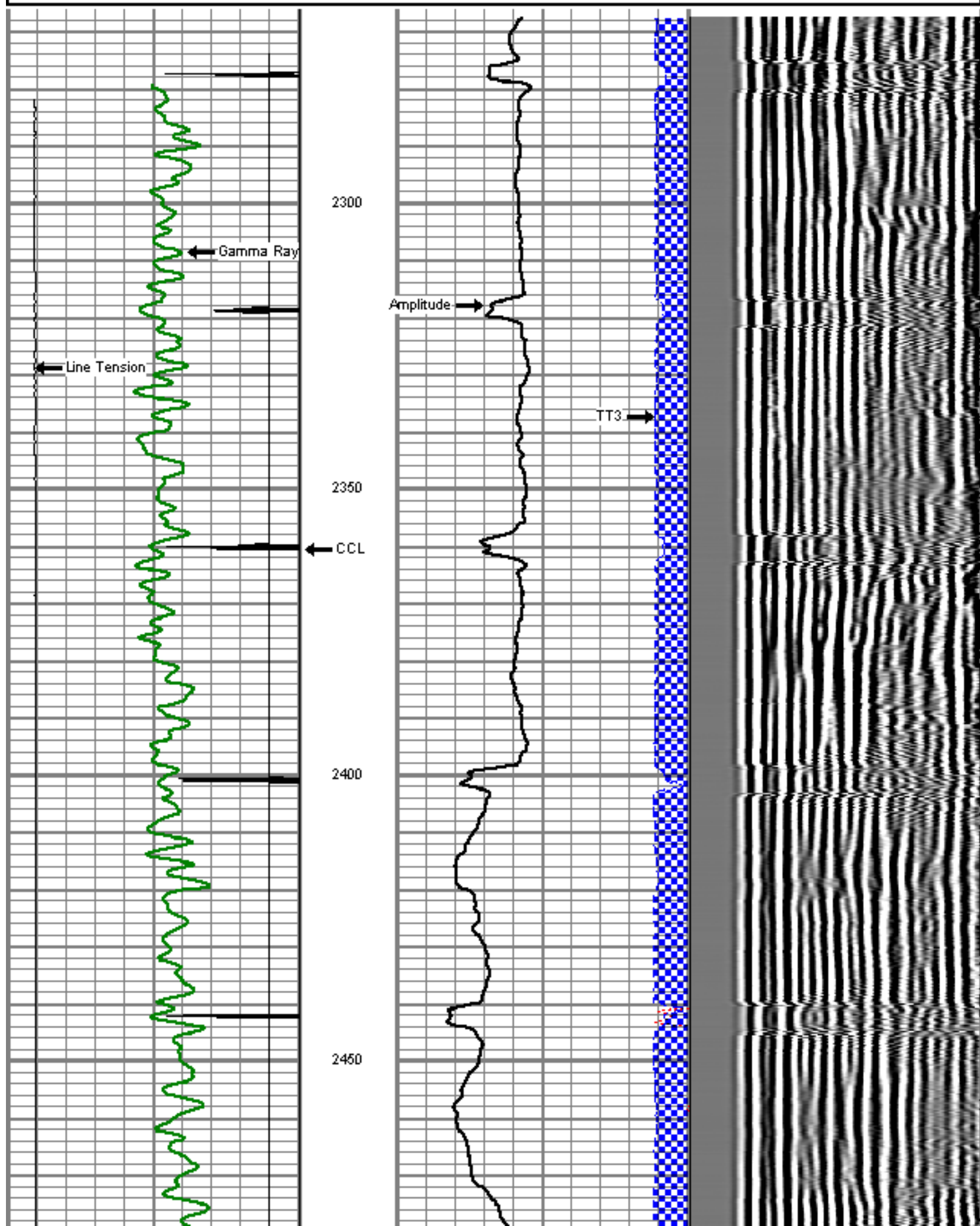


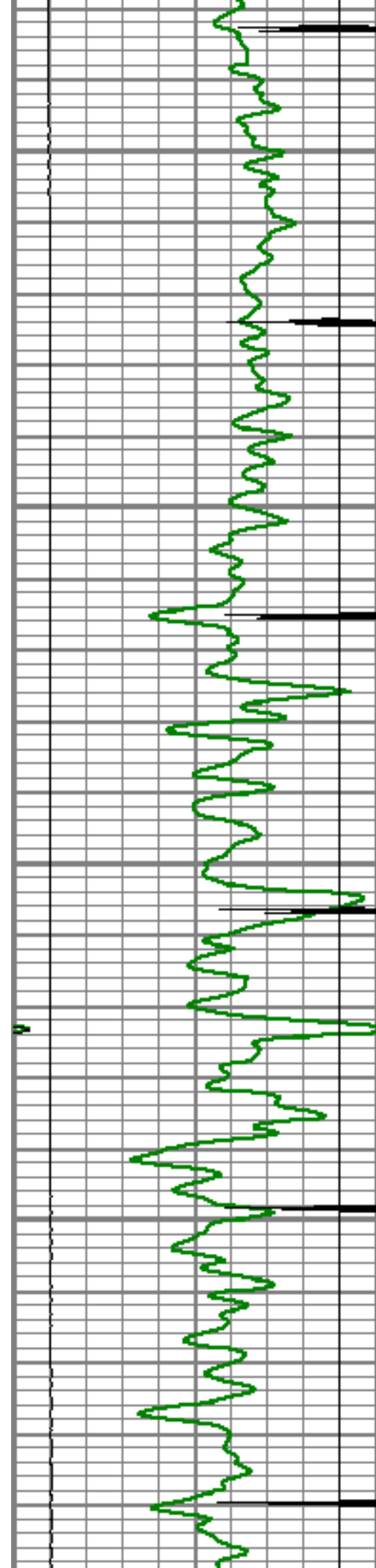
MAIN PASS

5" = 100'

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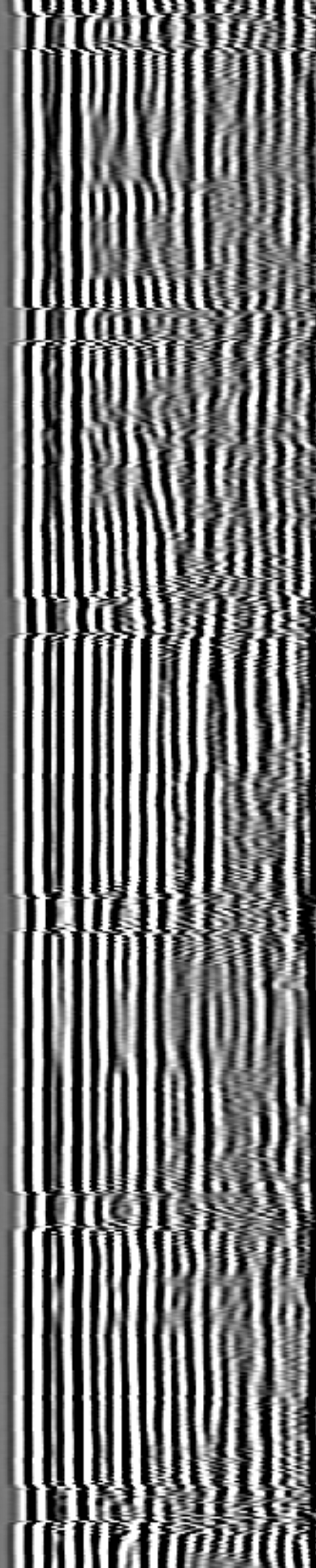
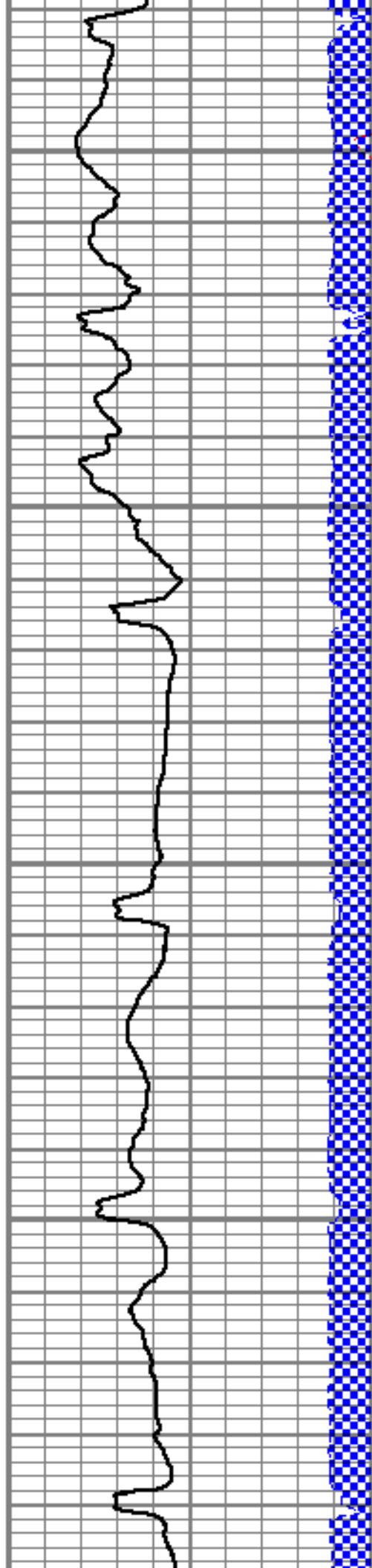


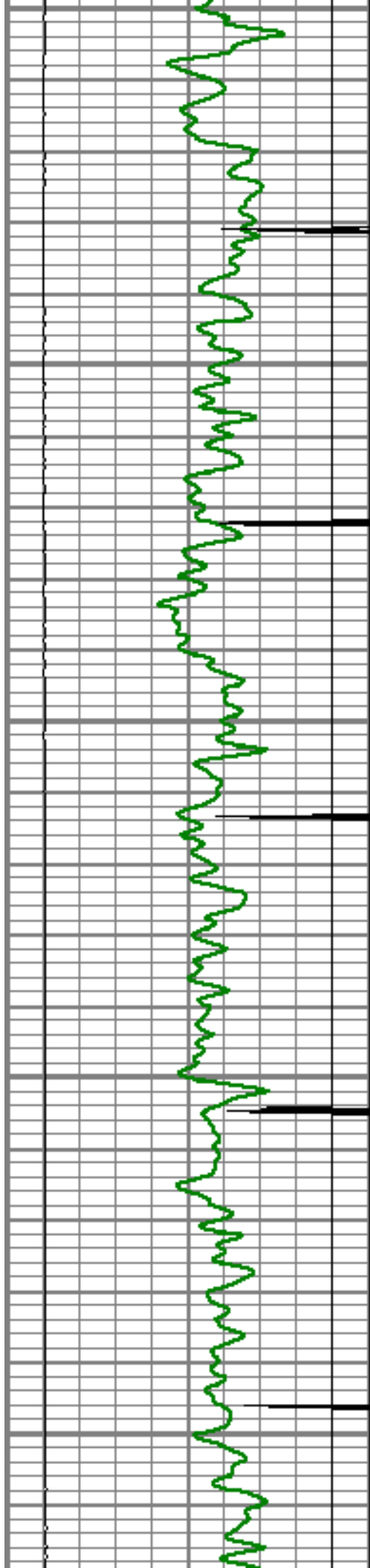
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2550

2600

2650





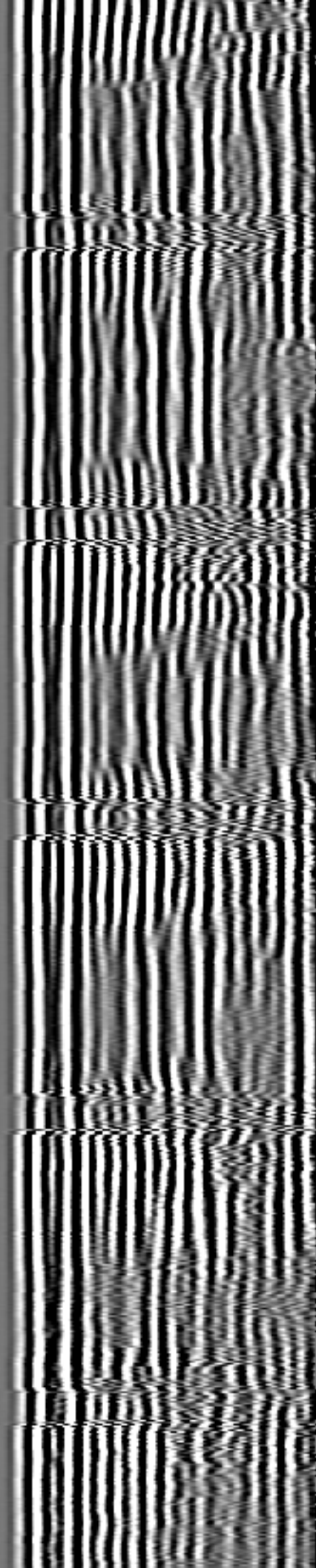
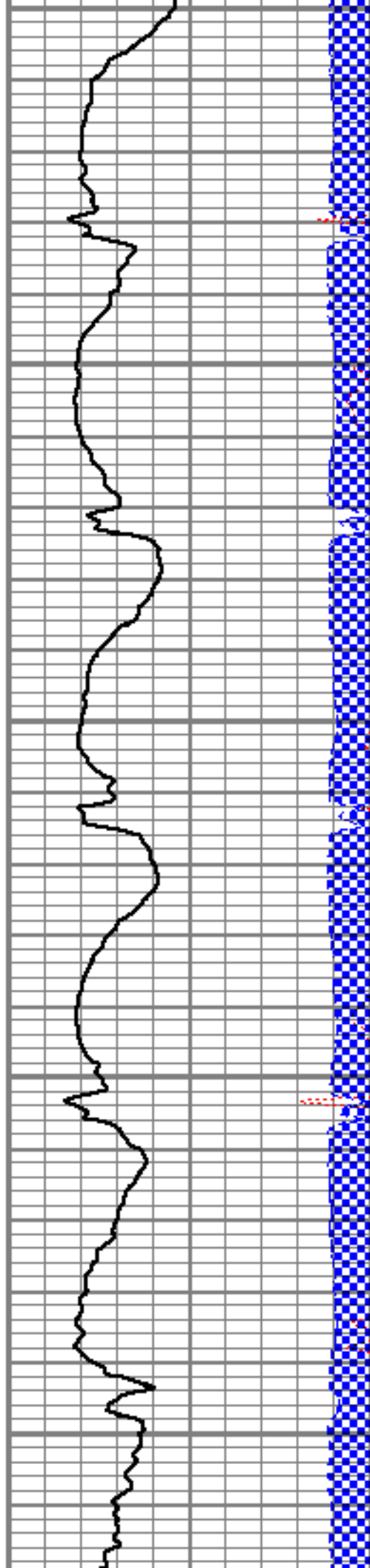
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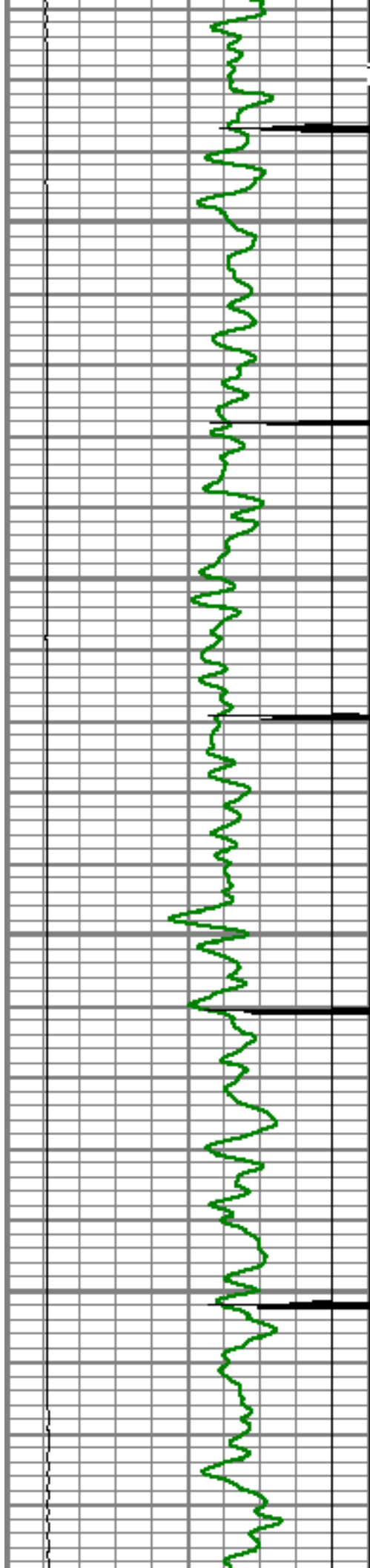
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2800

2850

2900





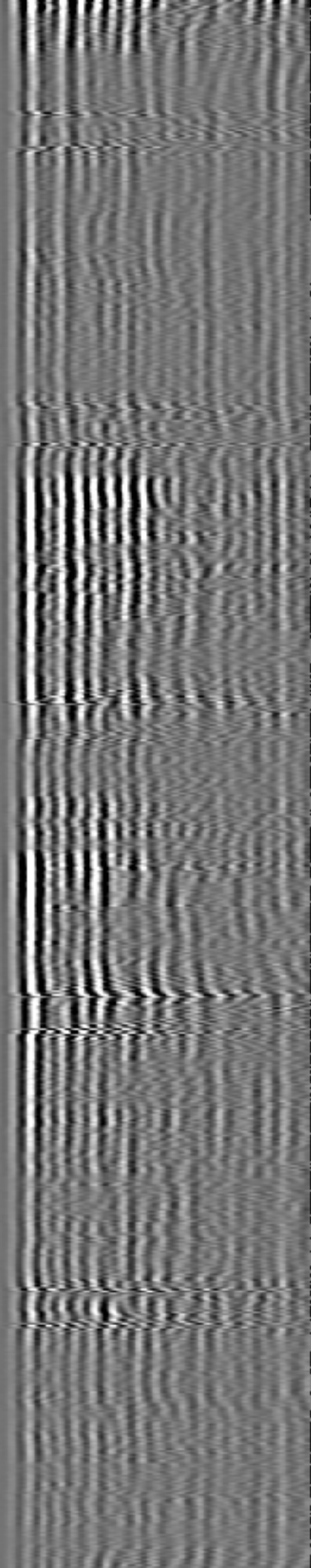
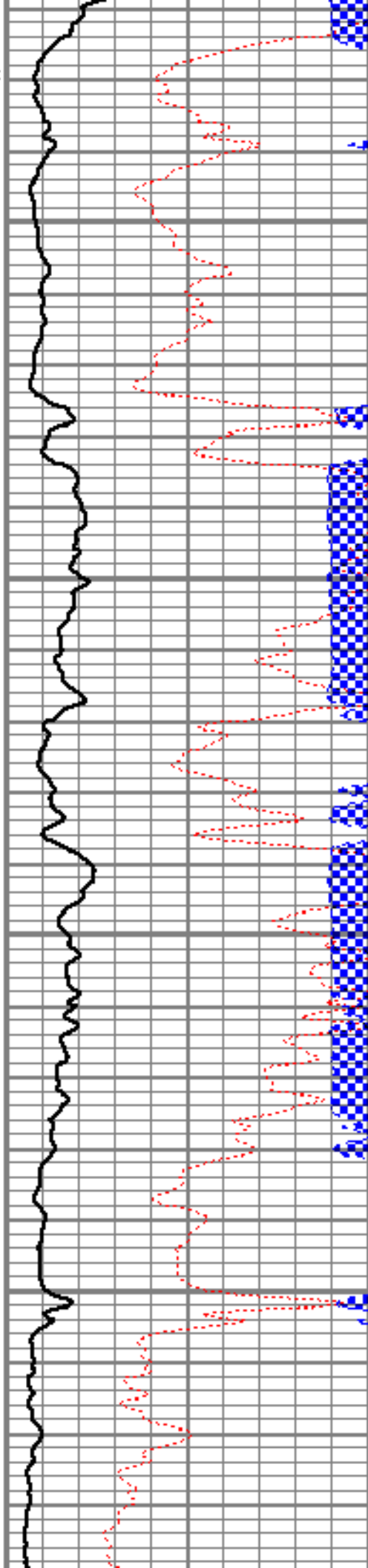
Top of Cement

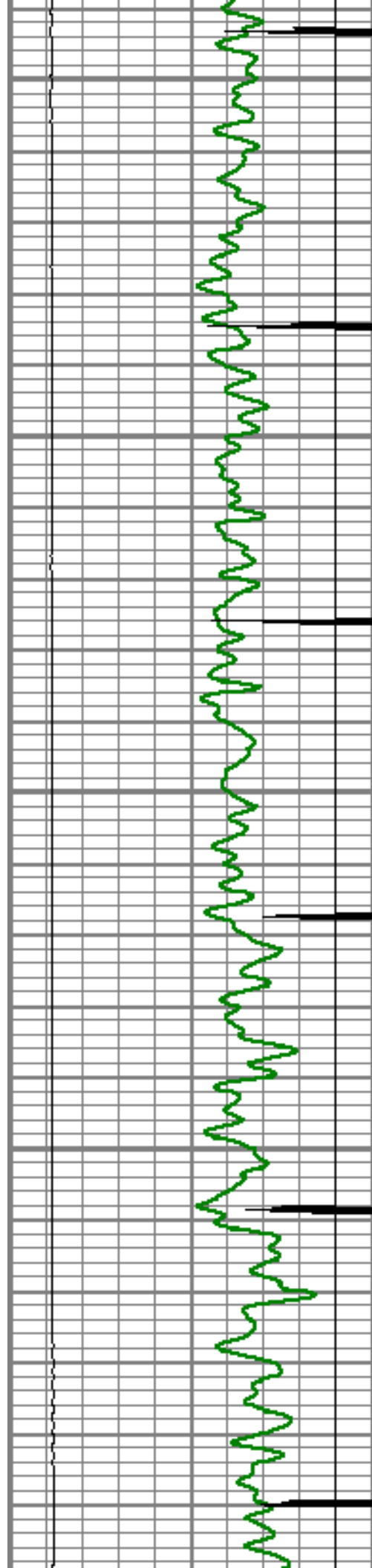
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3000

3050

3100





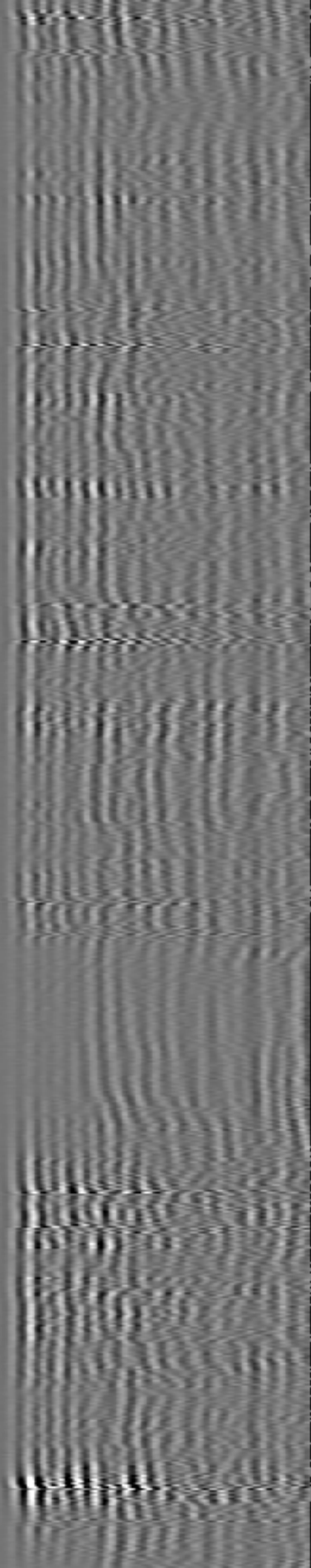
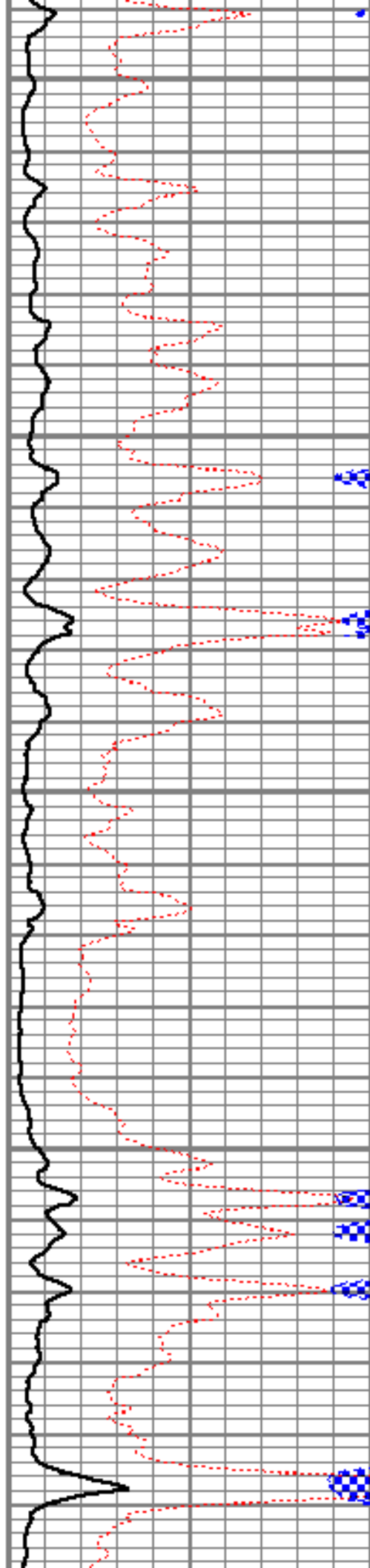
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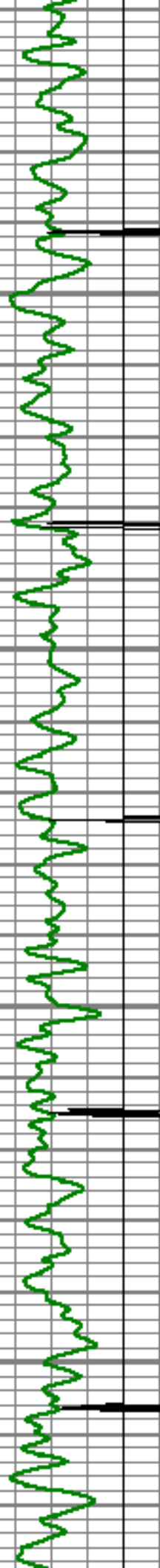
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3300

3350



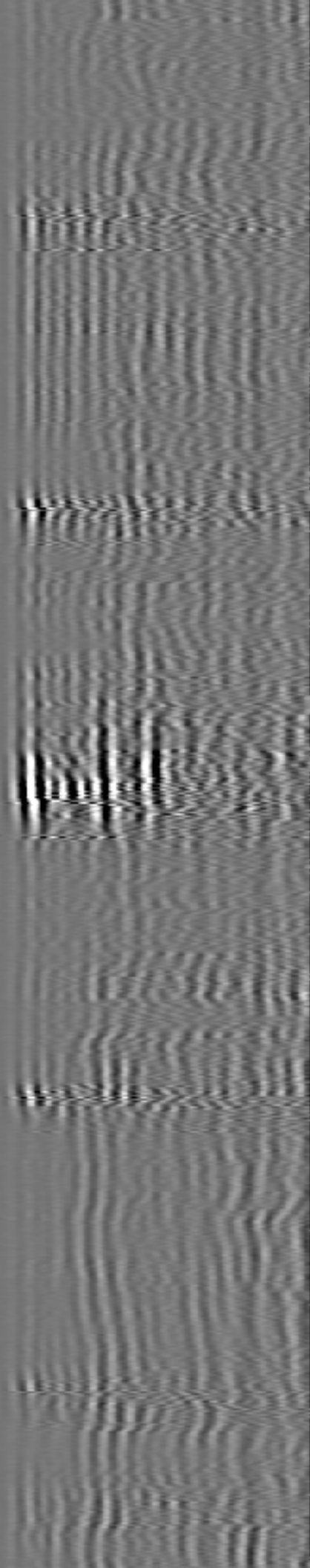
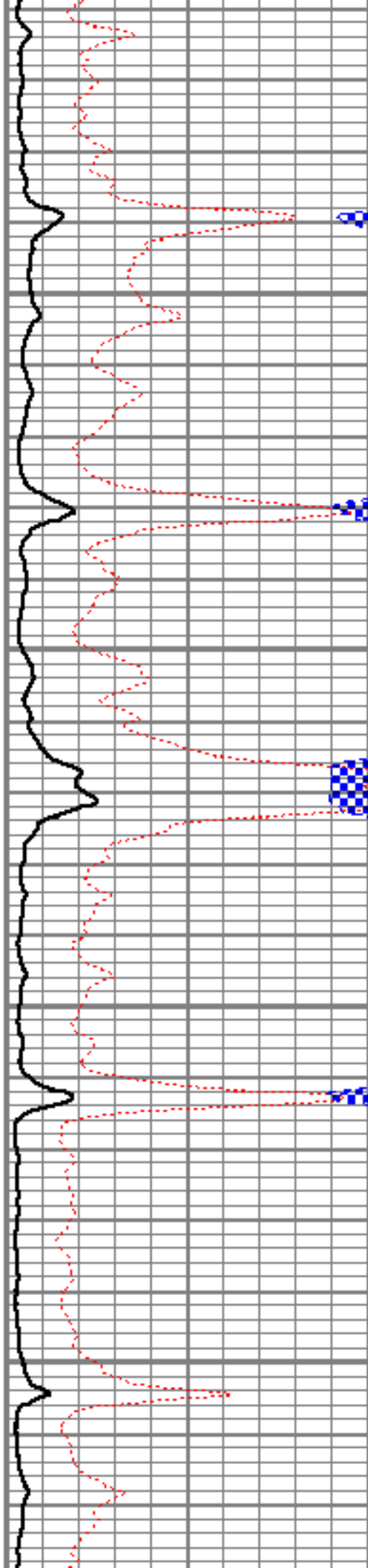


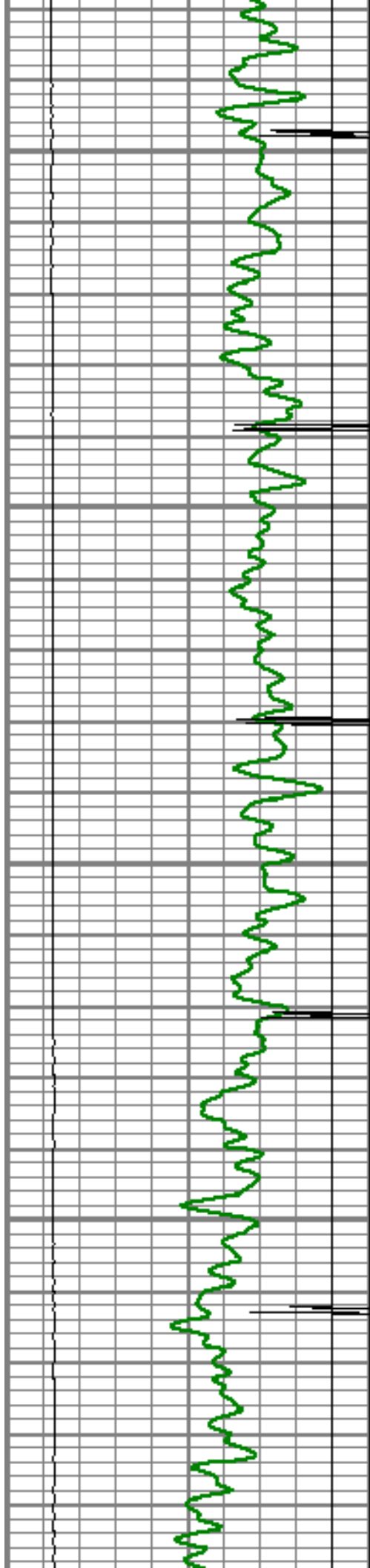
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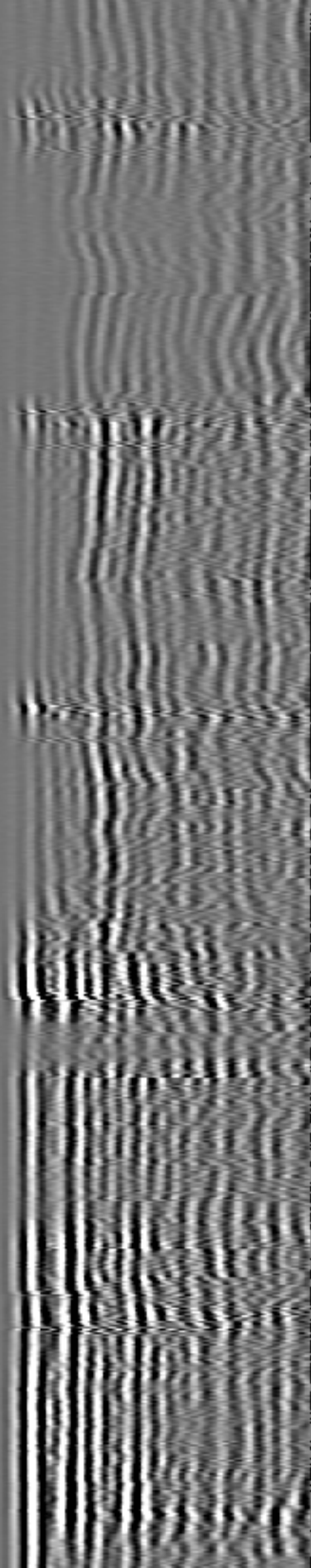
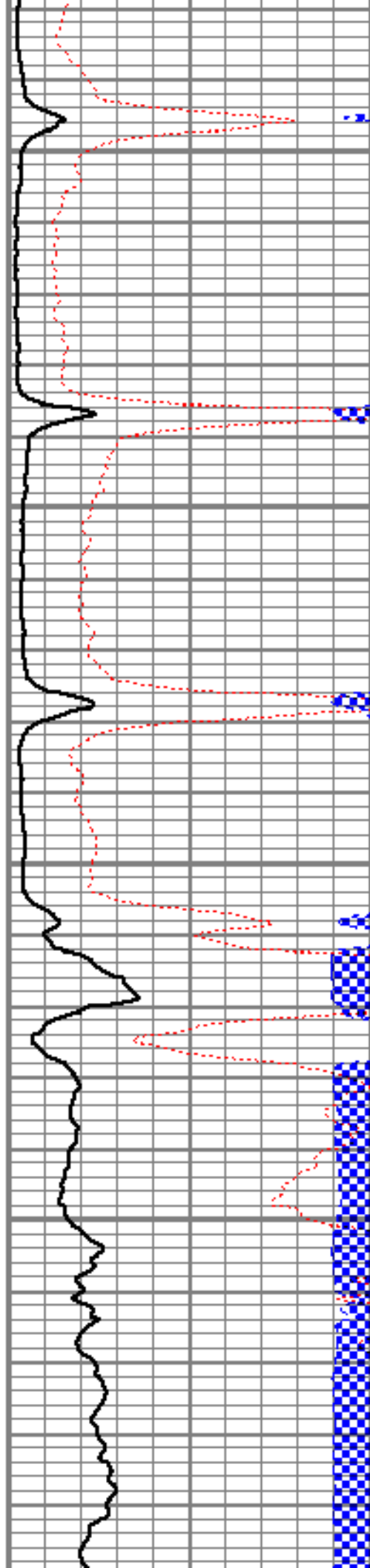


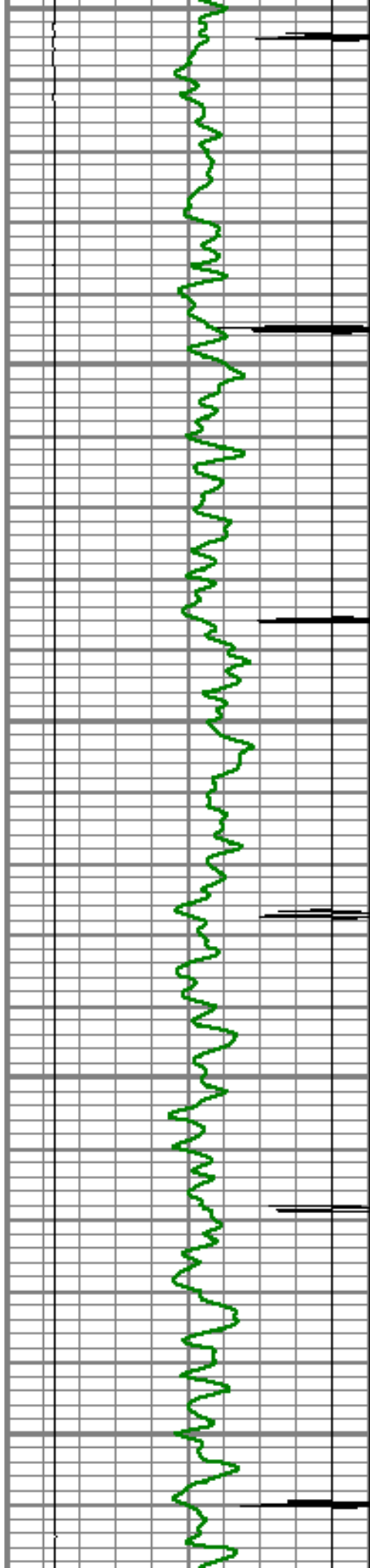
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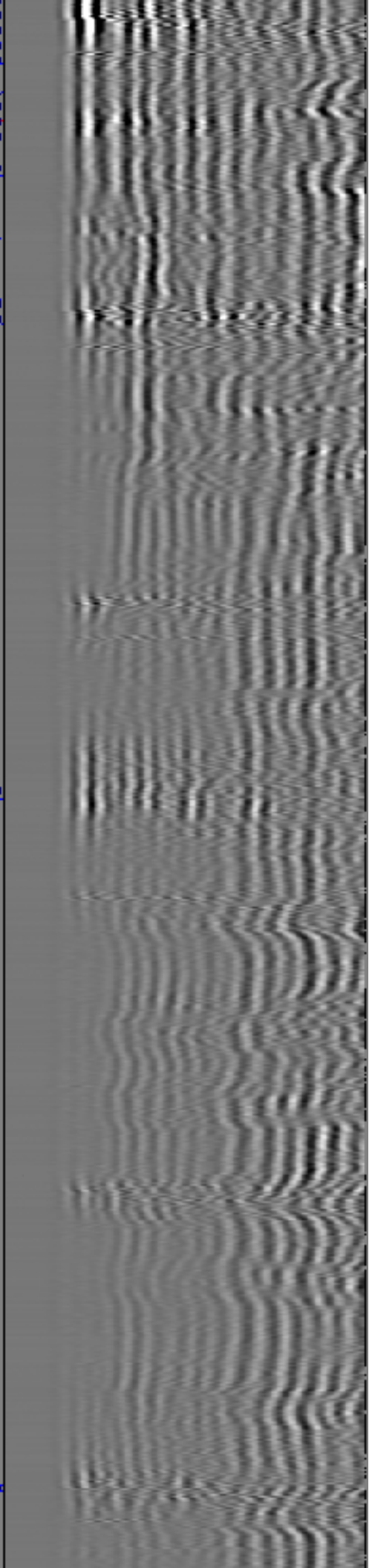
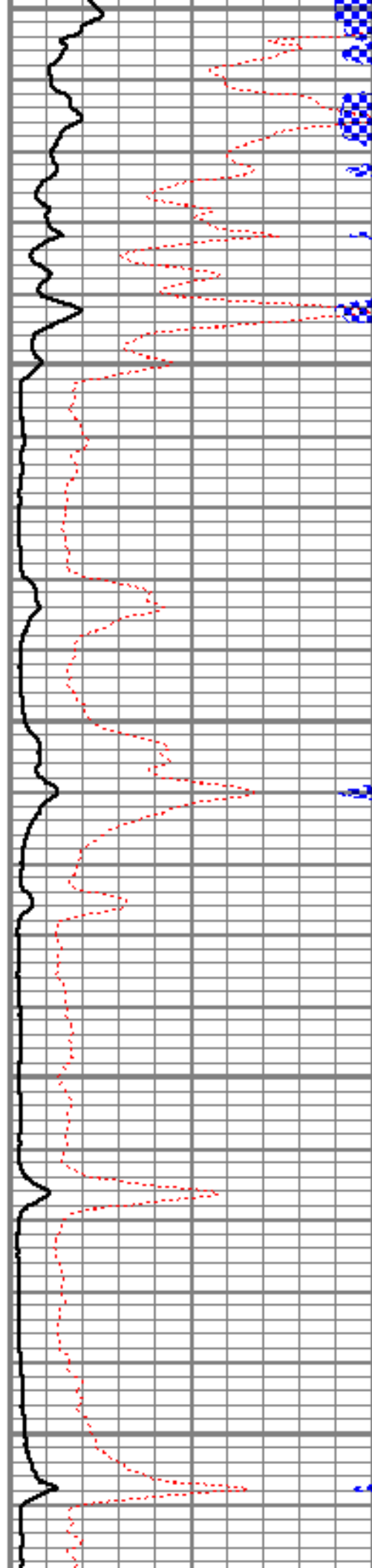
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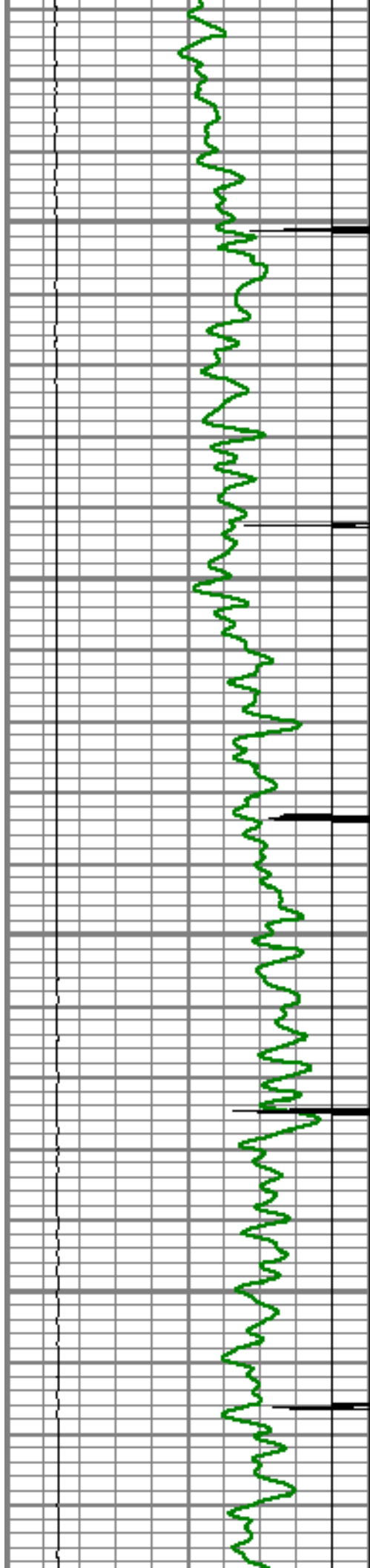
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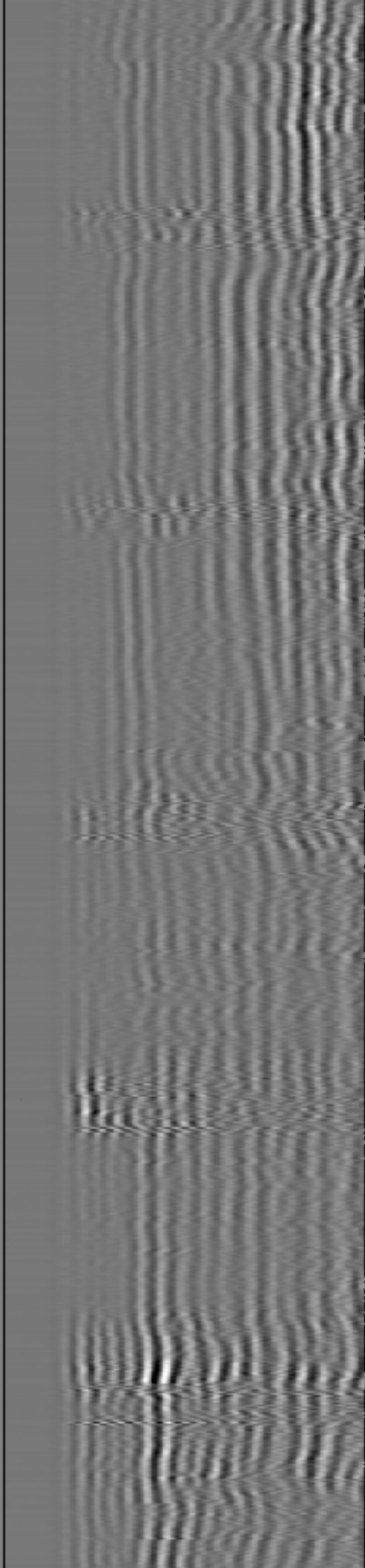
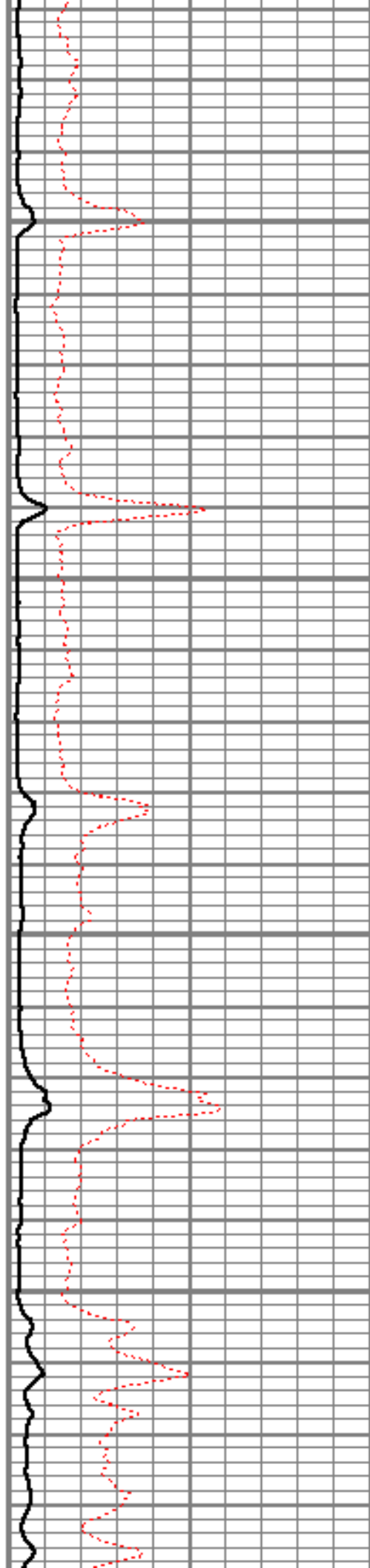


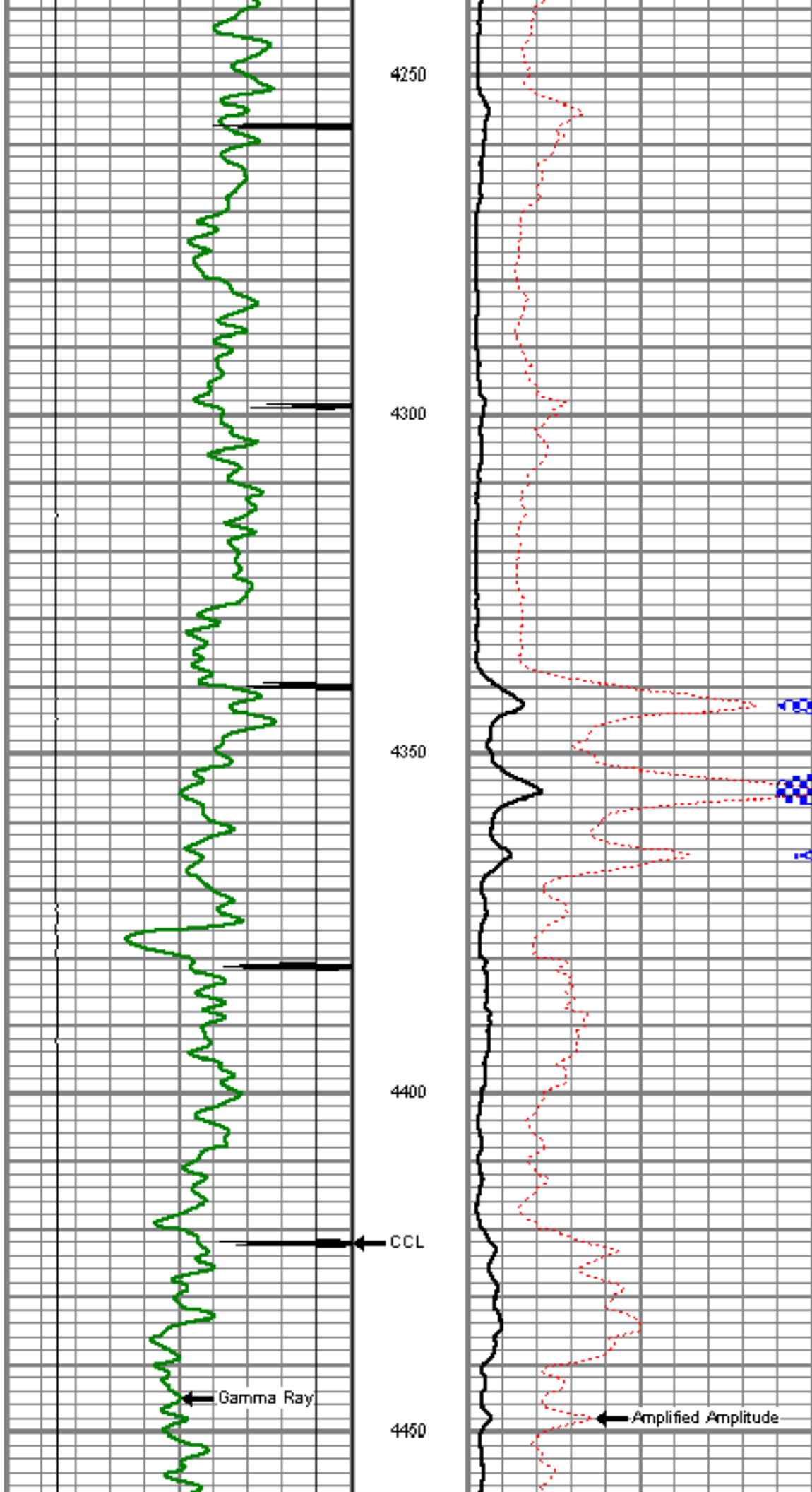
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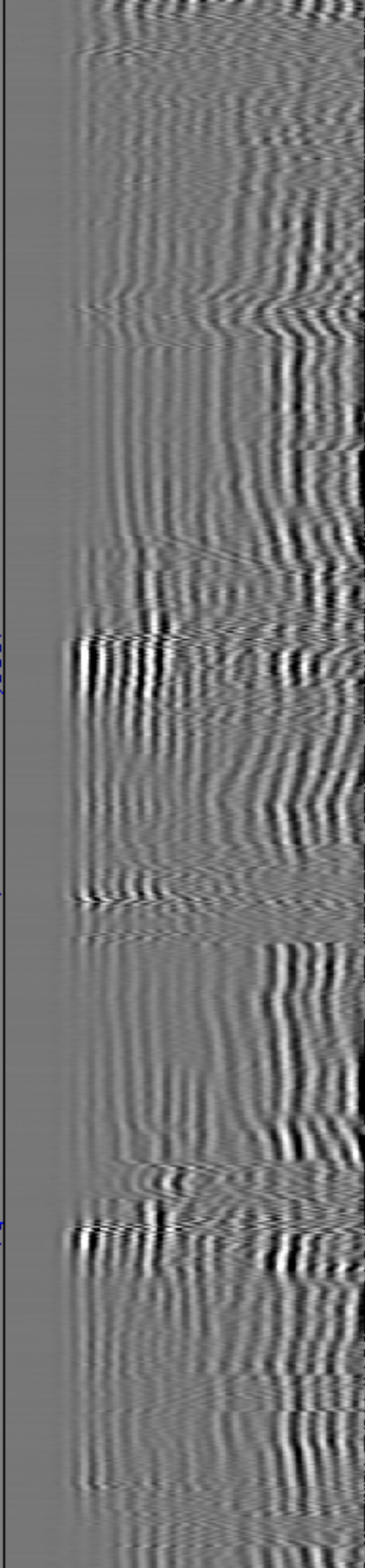
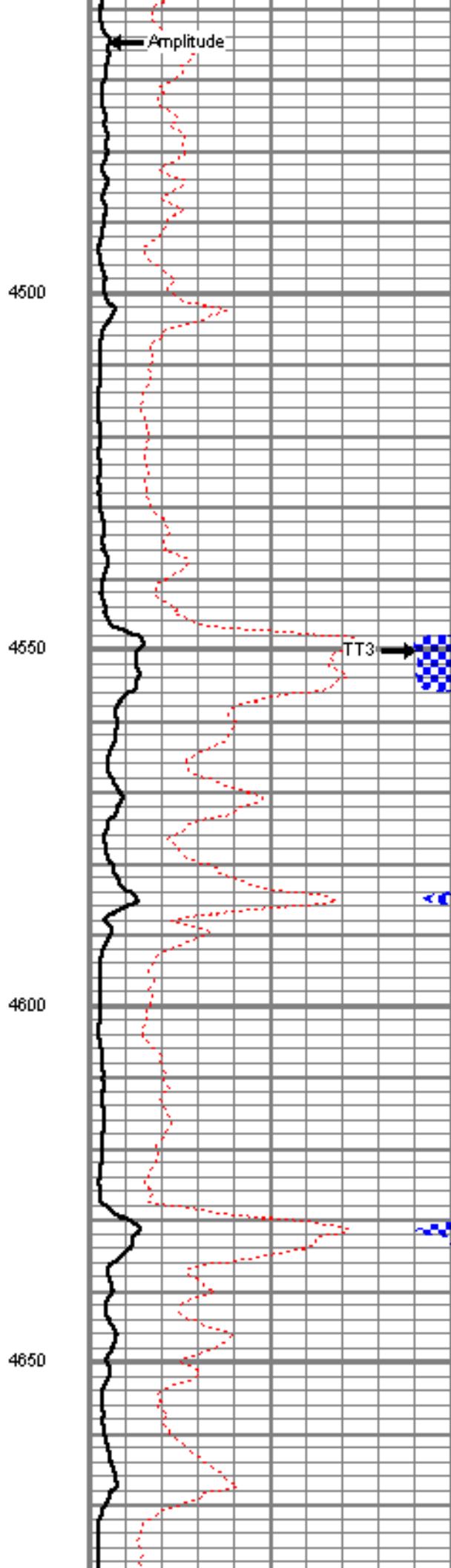
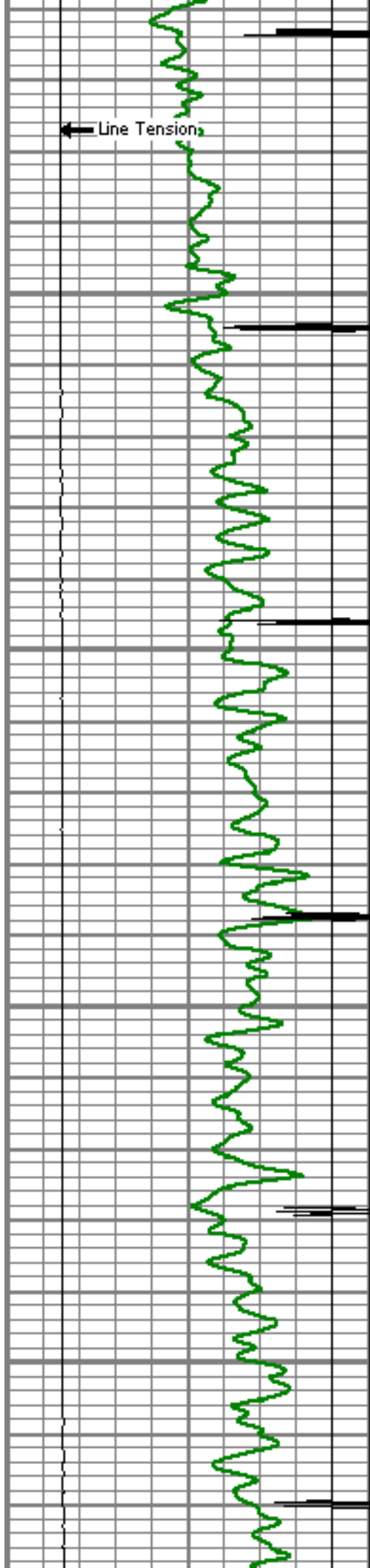
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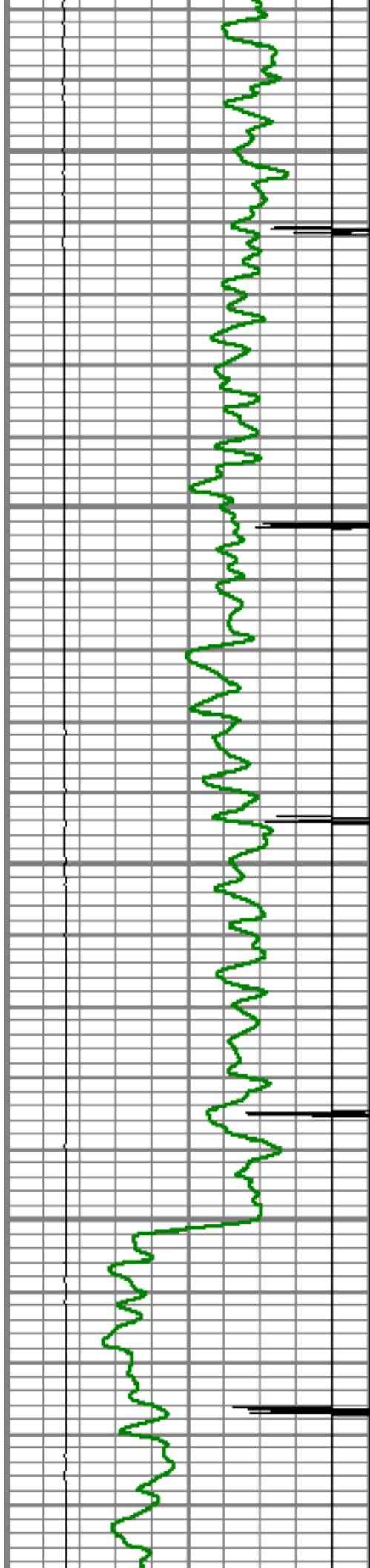
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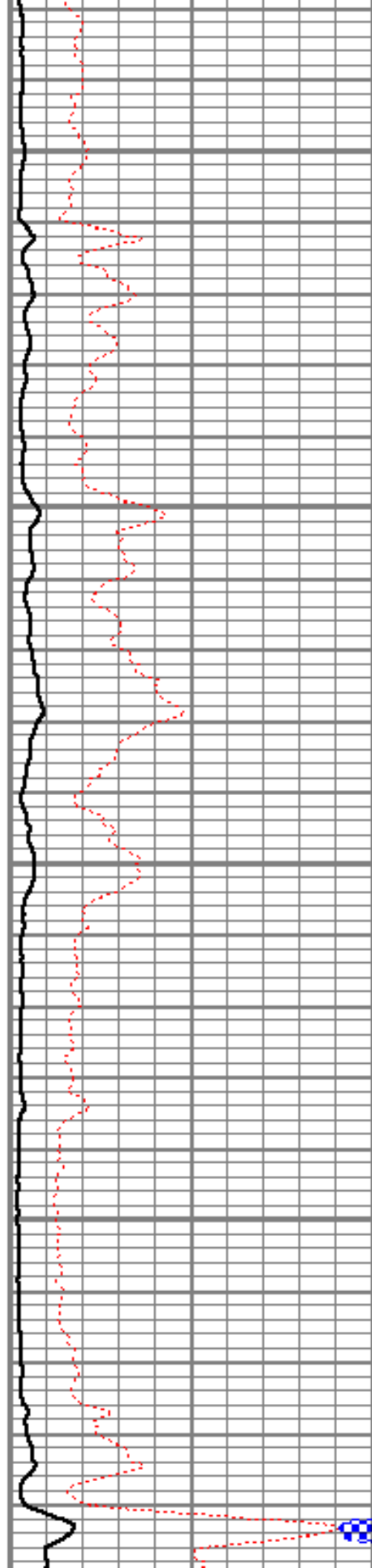


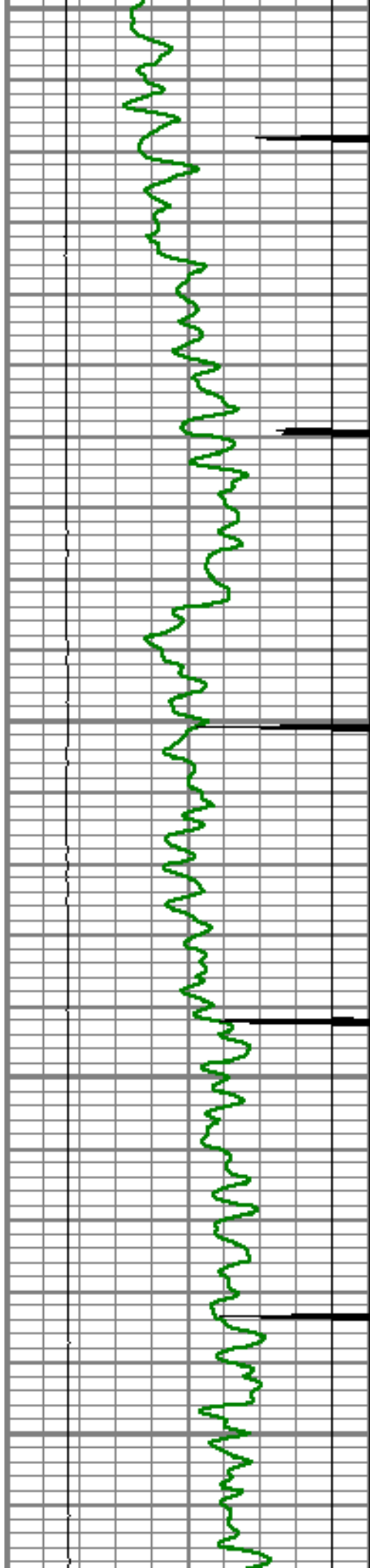
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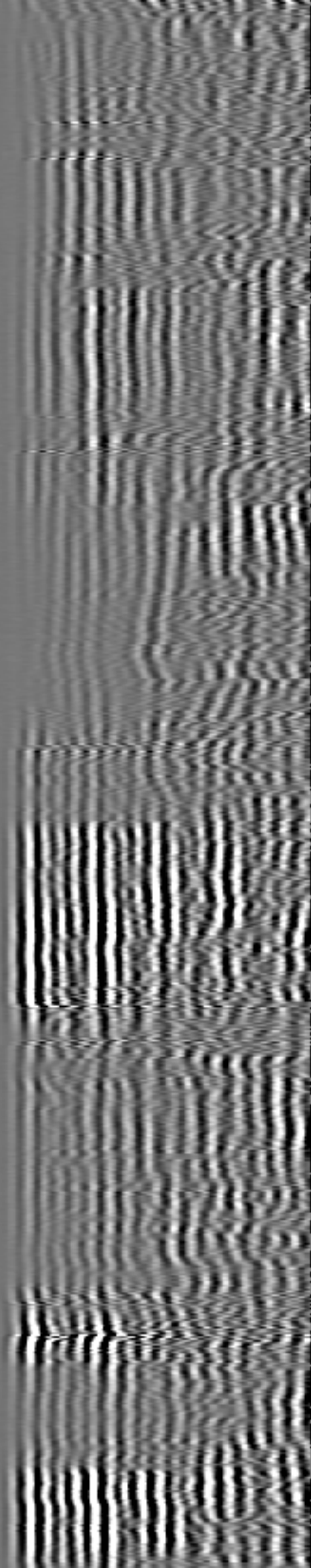
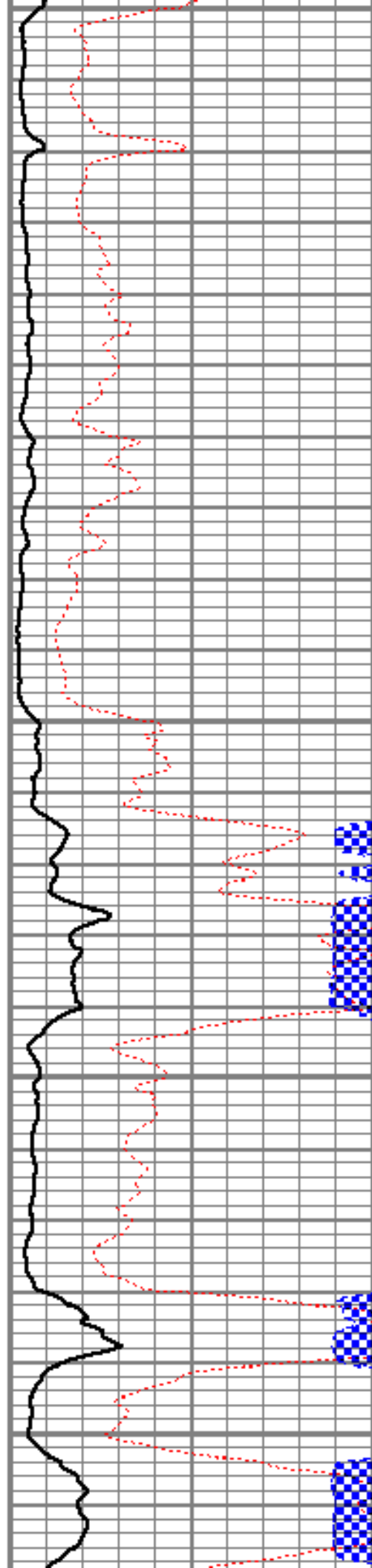
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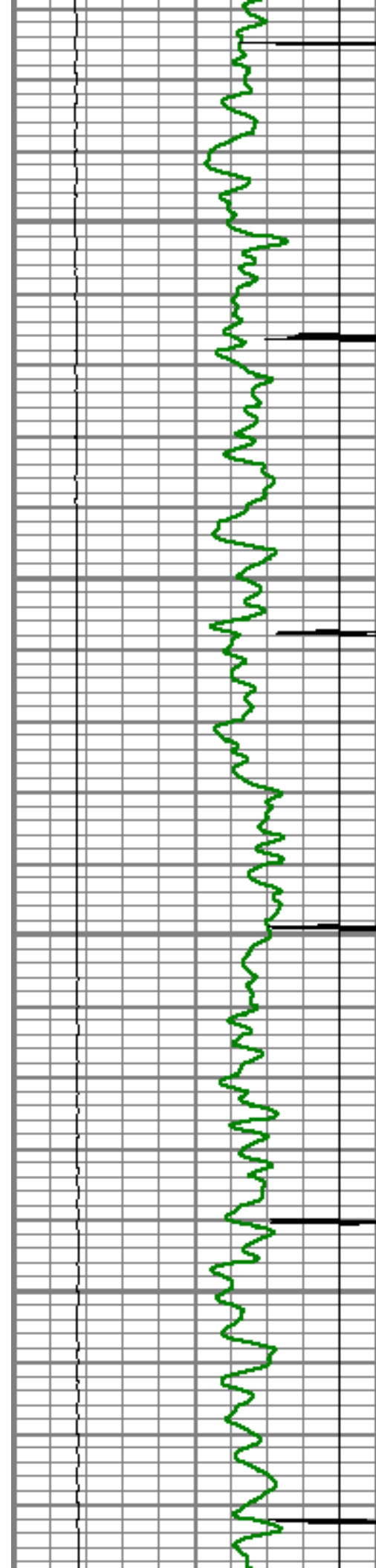
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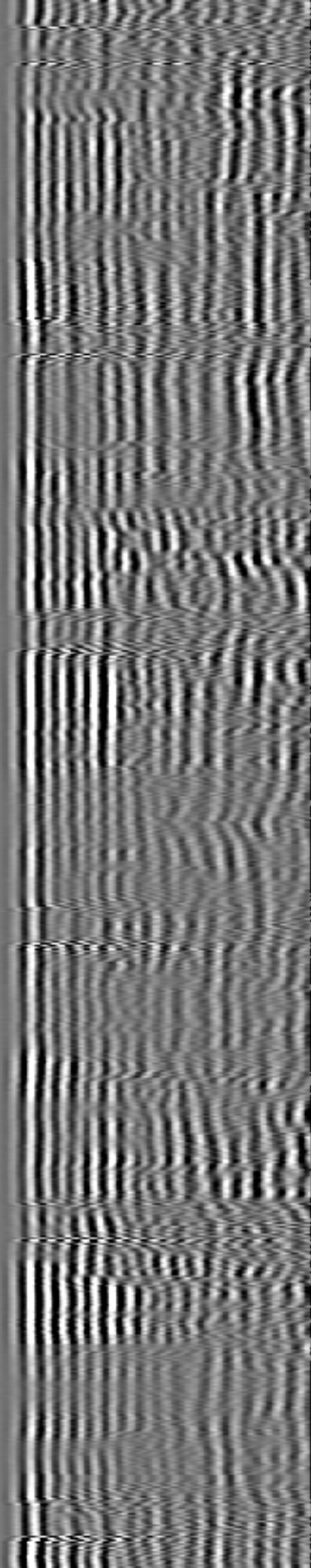
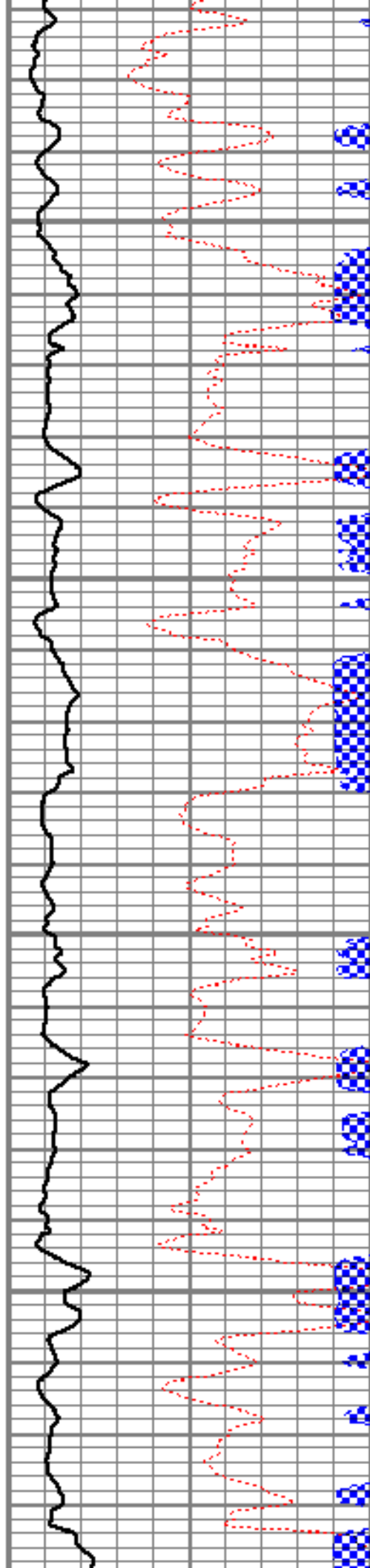


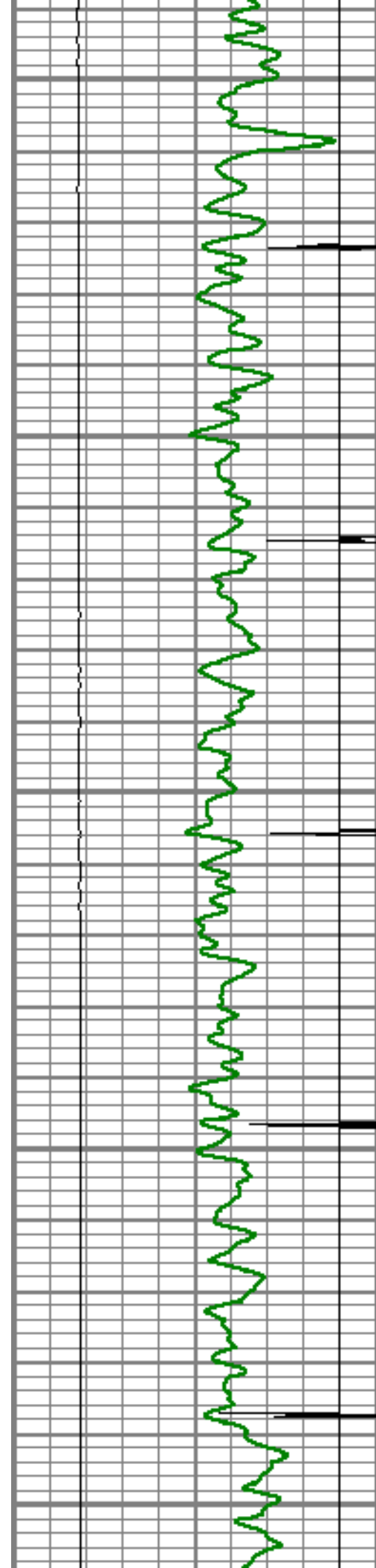
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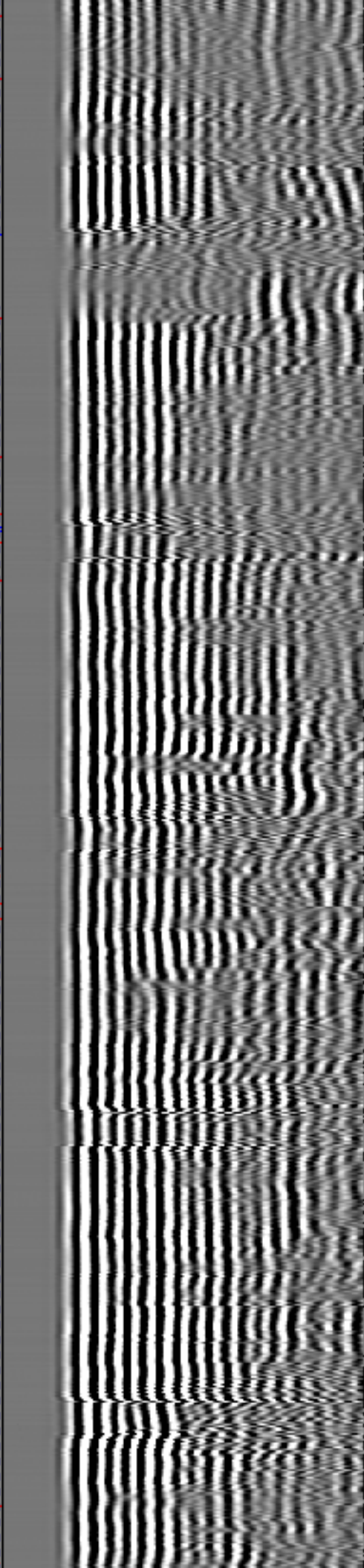
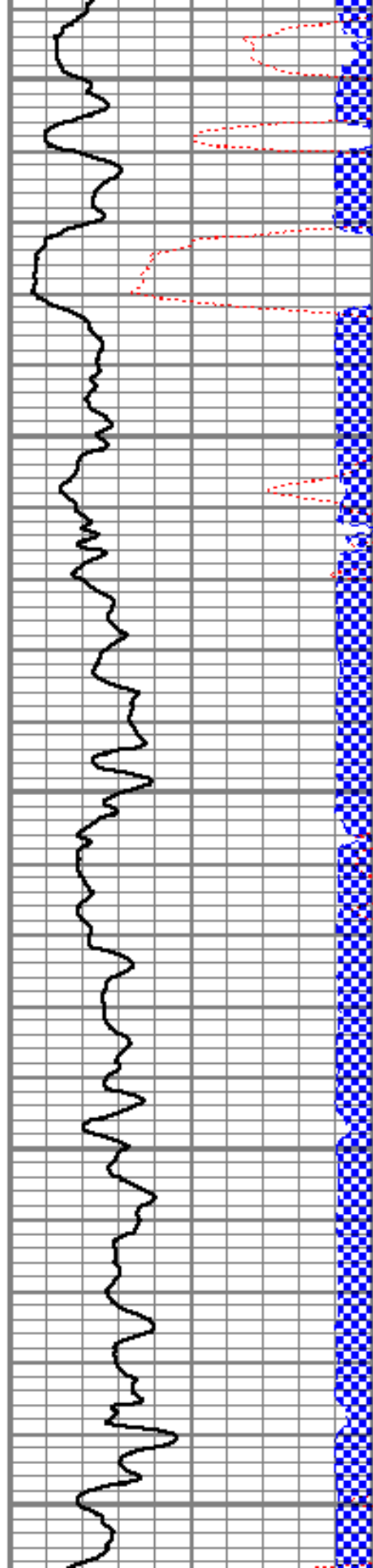
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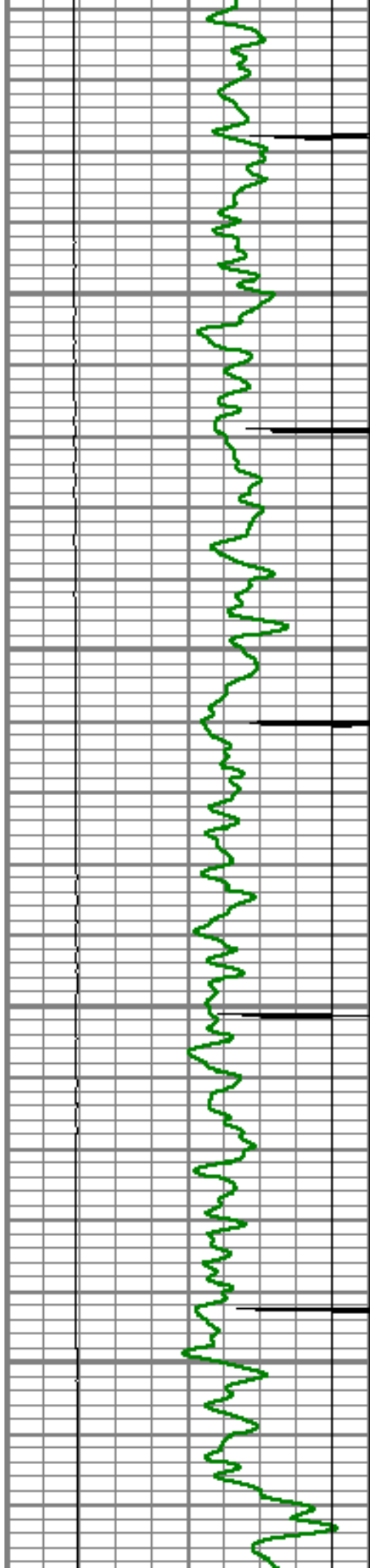
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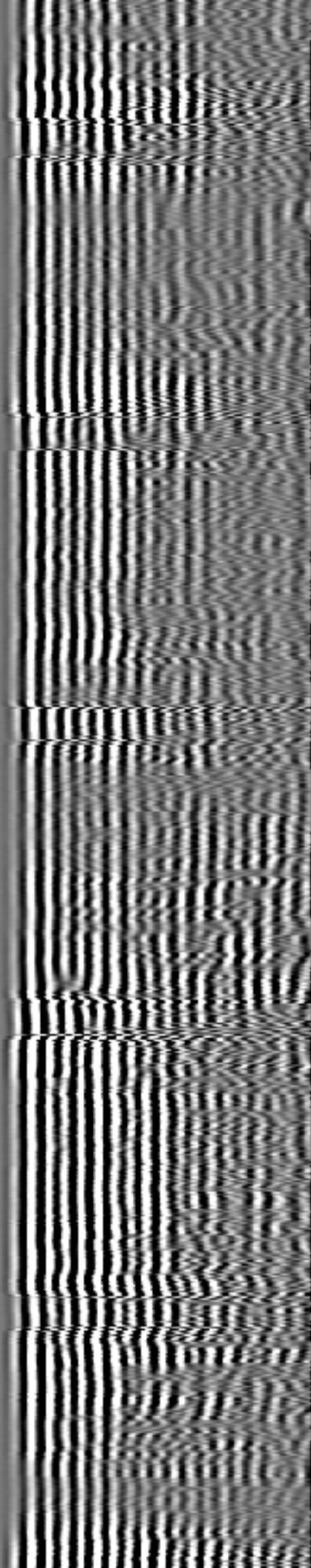
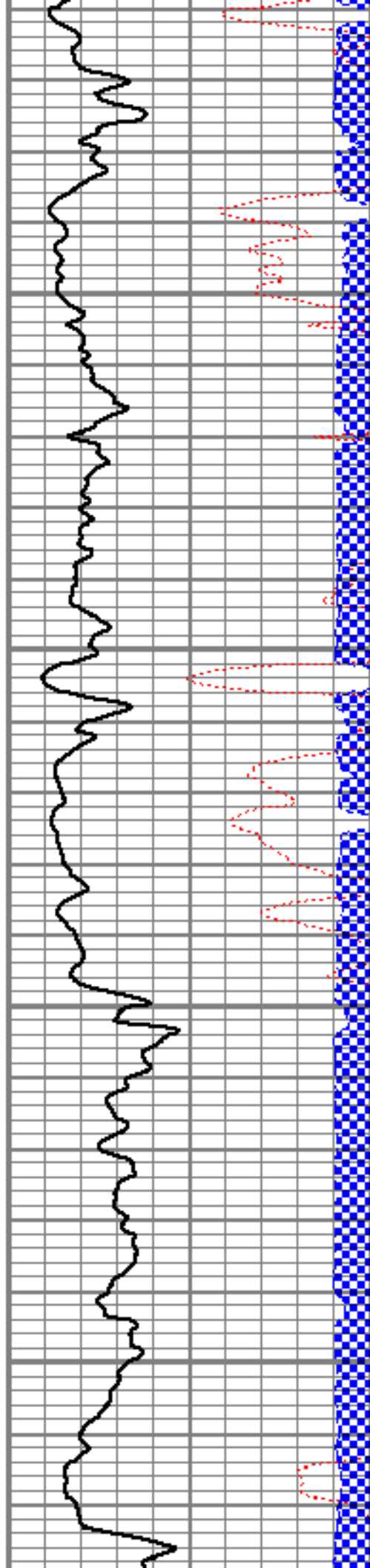


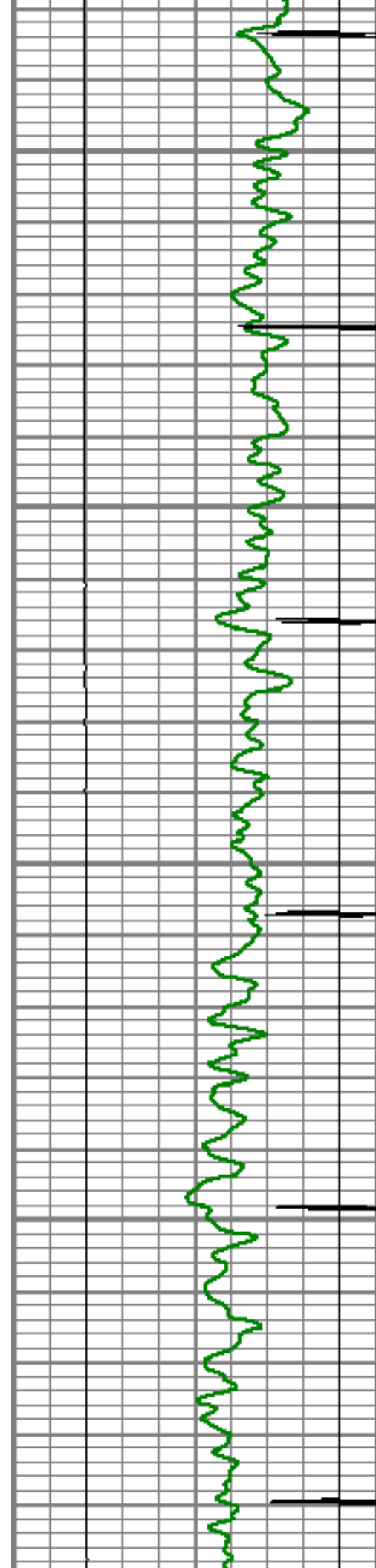
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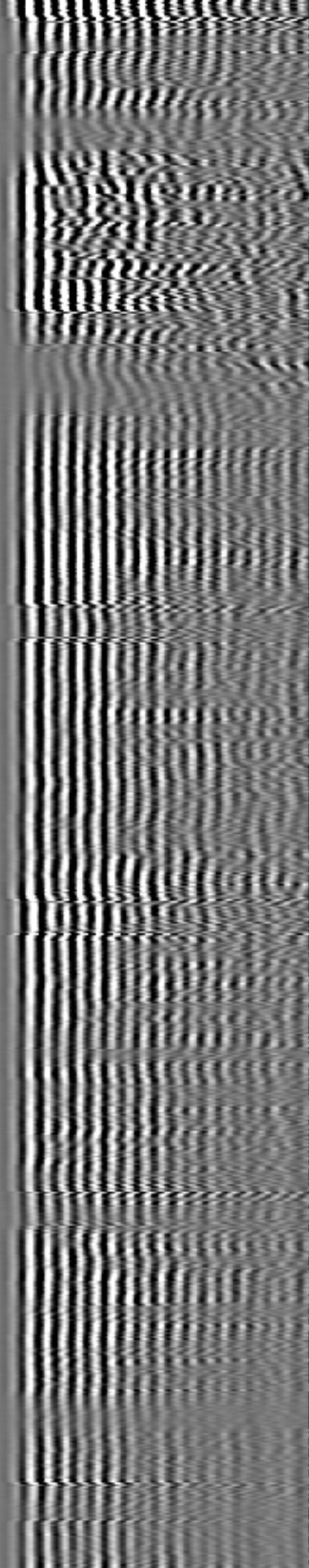
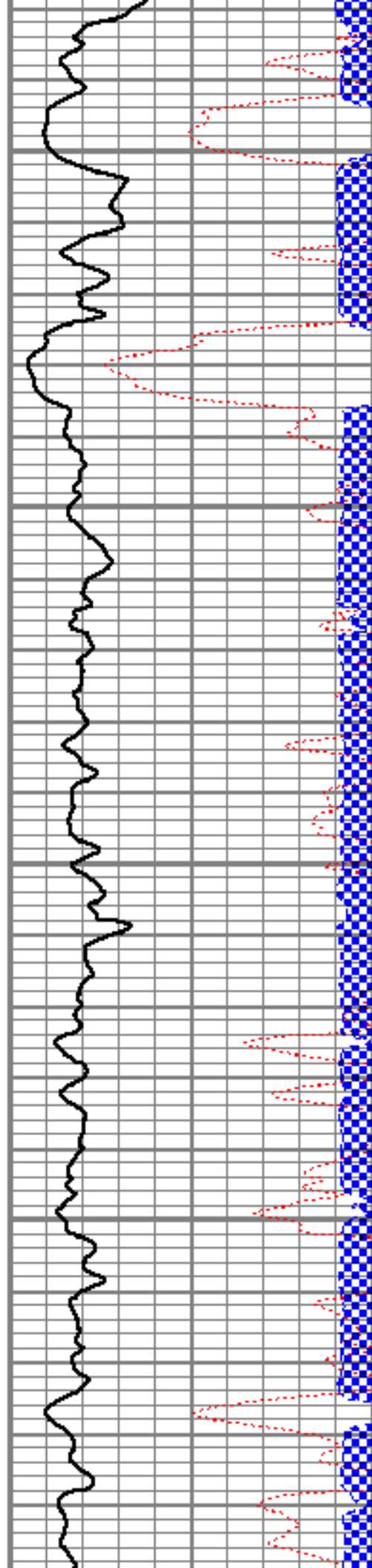


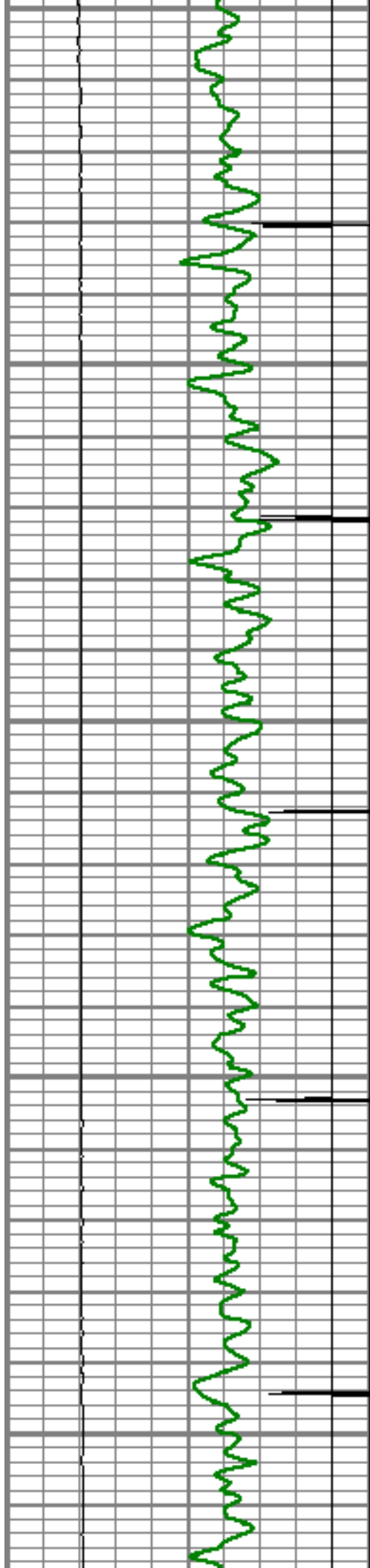
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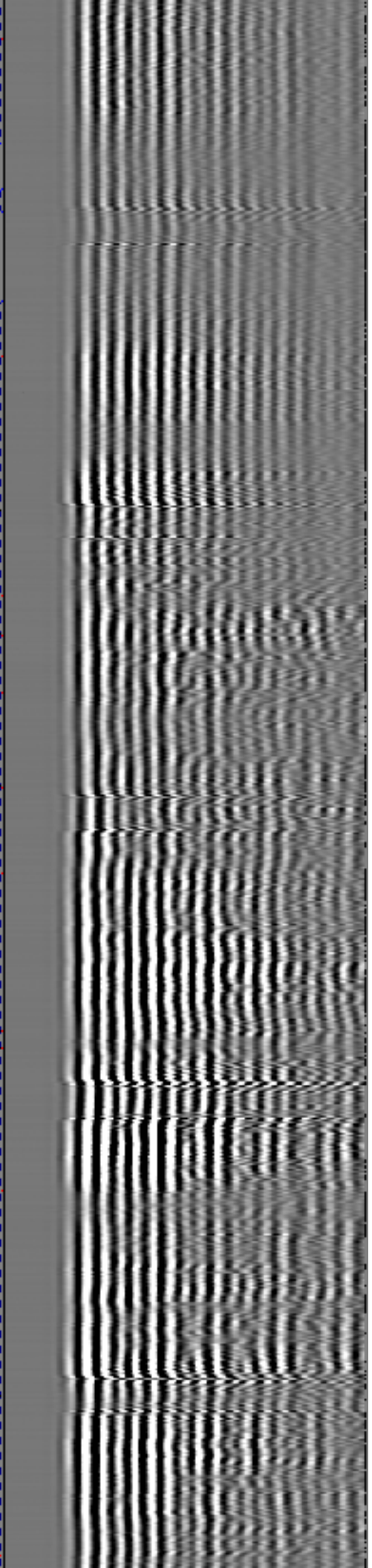
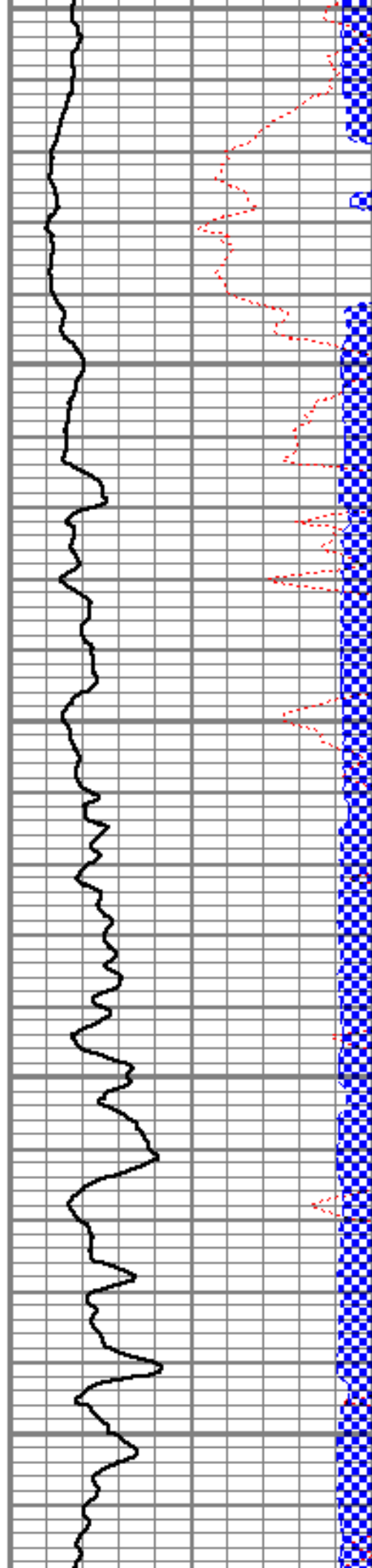
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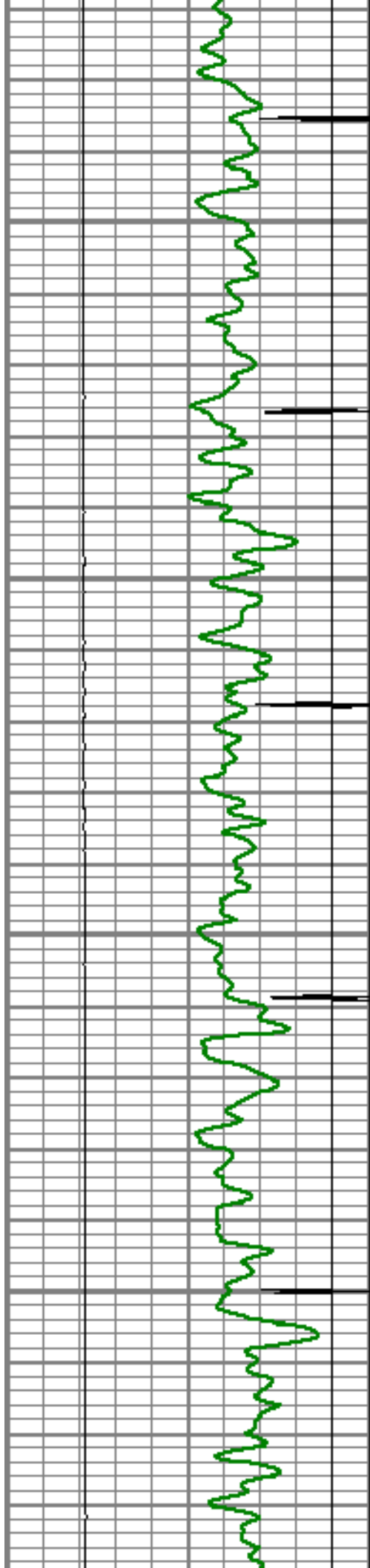
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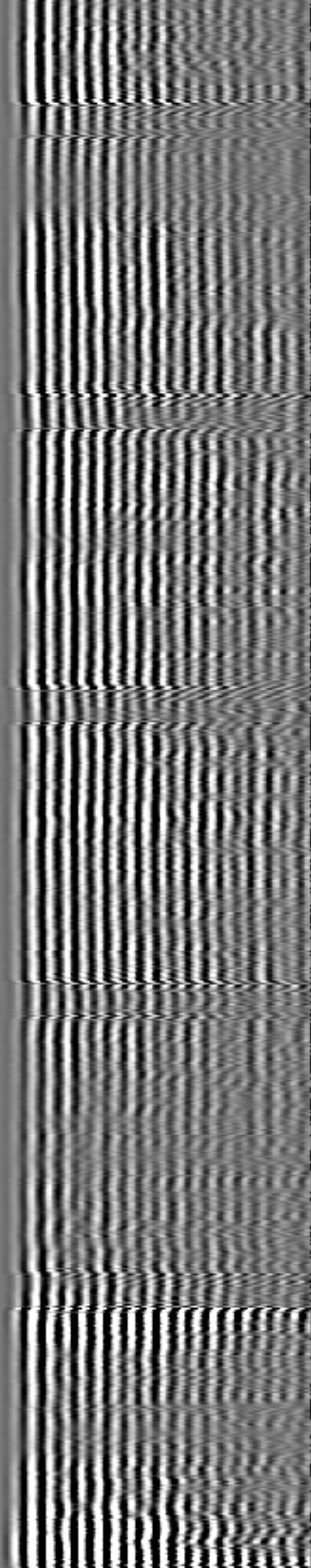
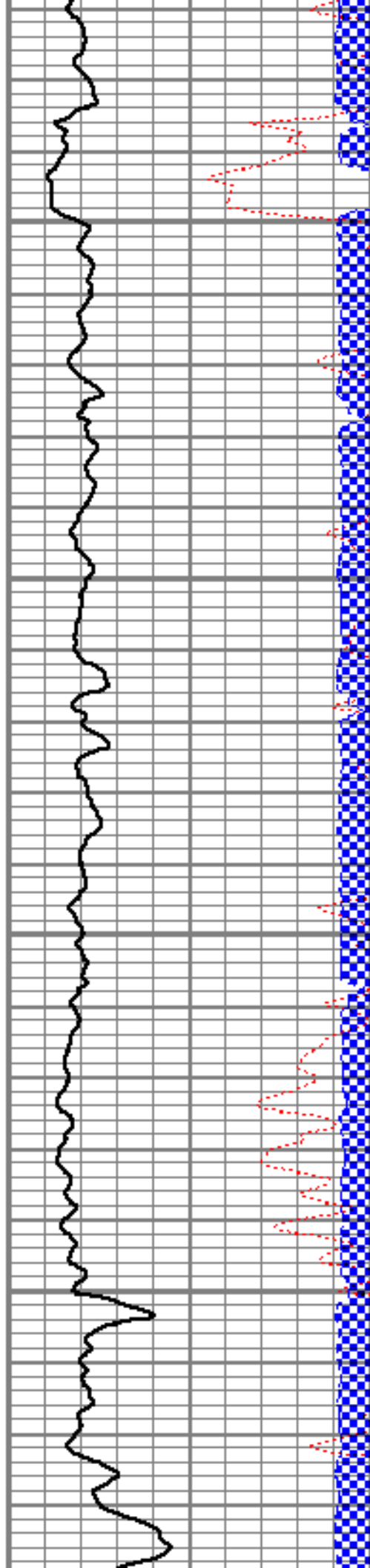


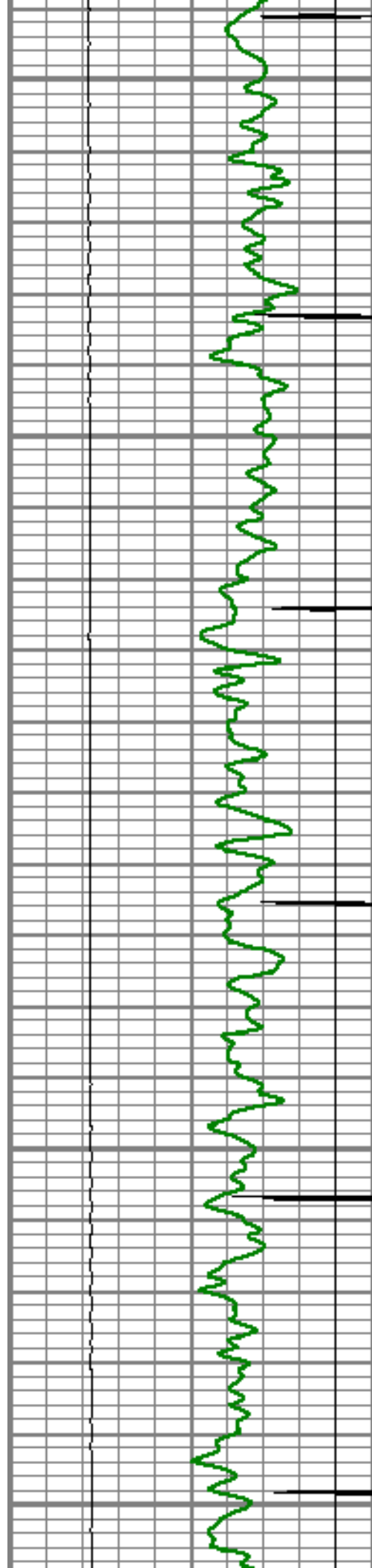
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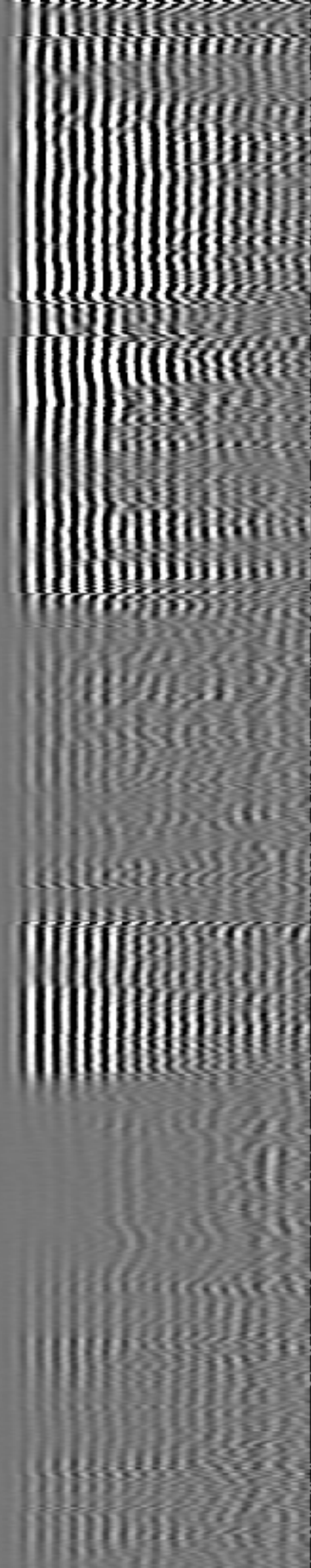
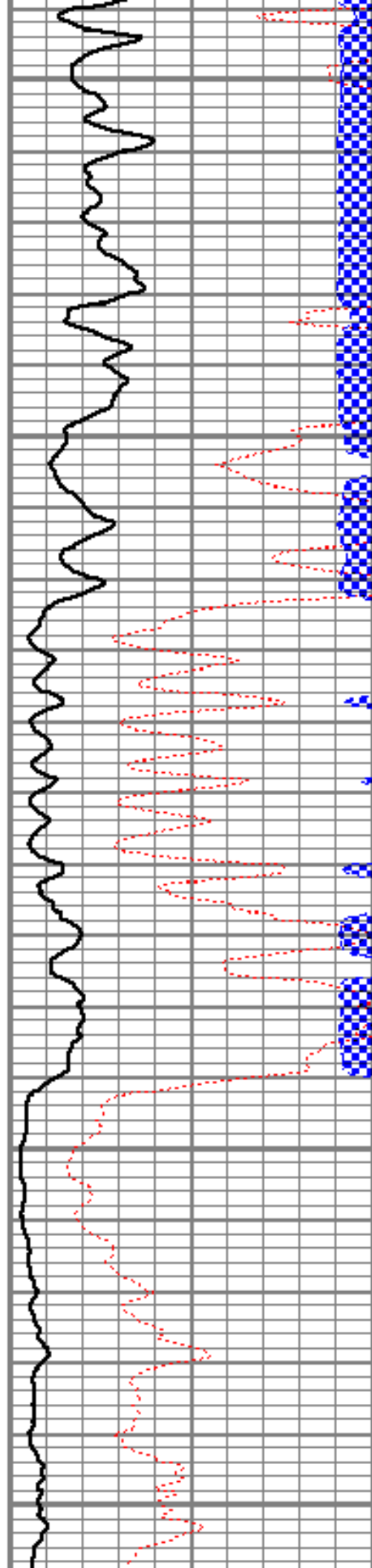
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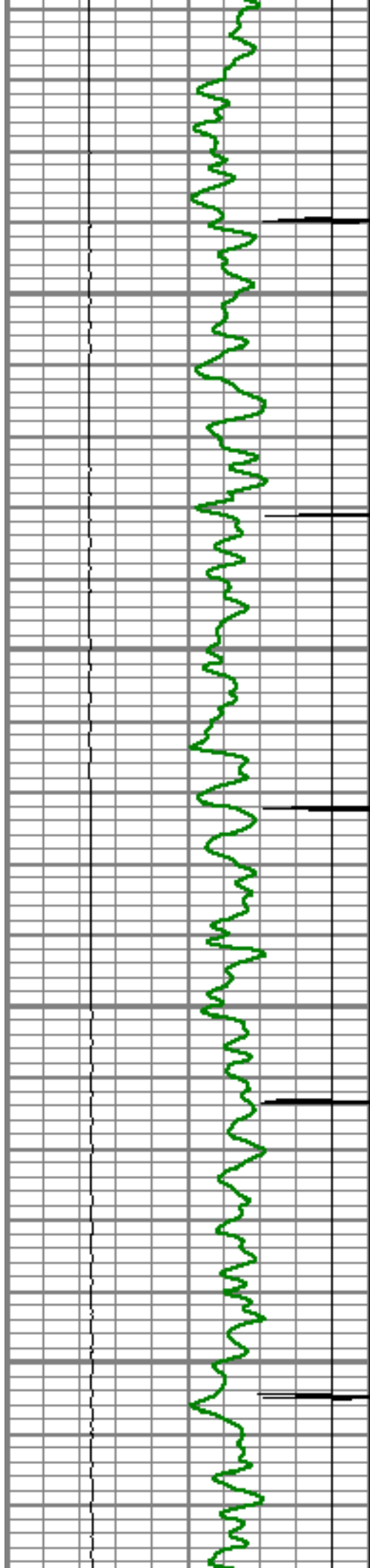
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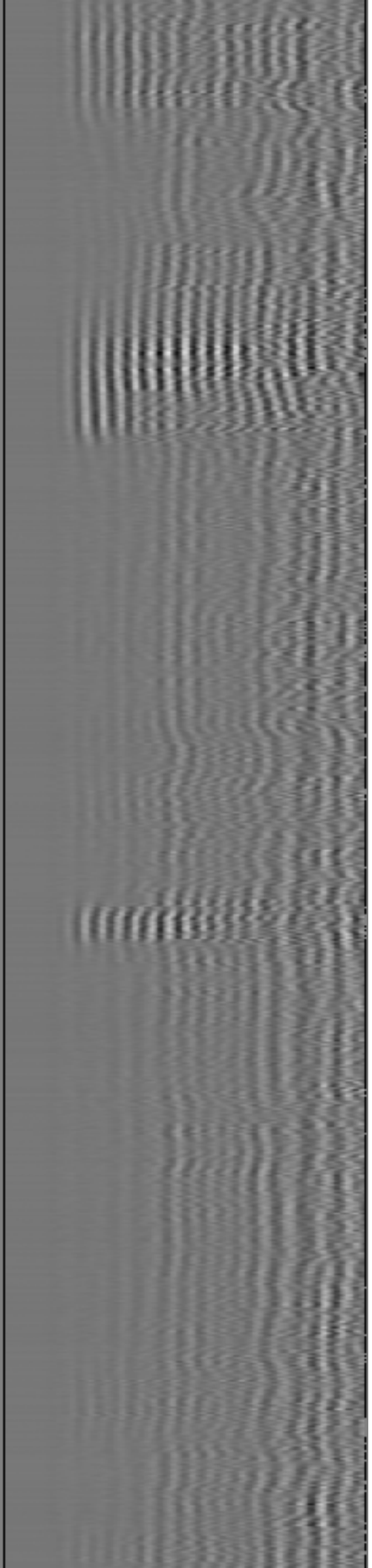
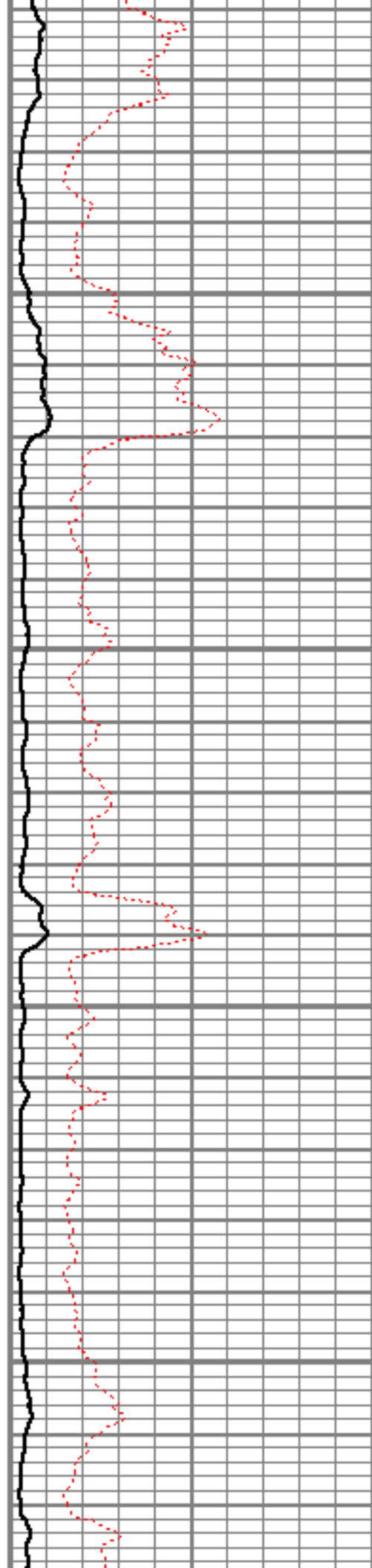


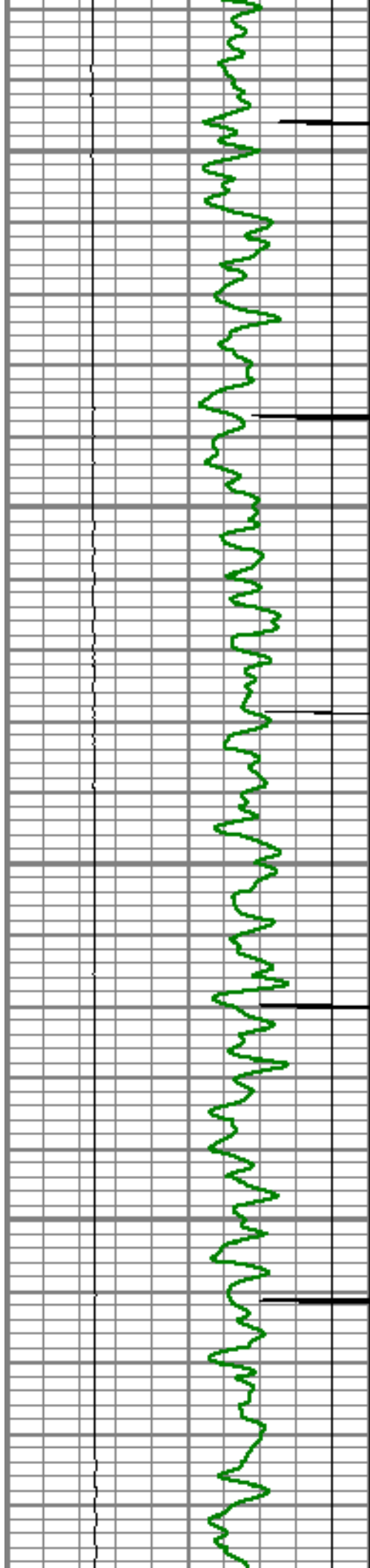
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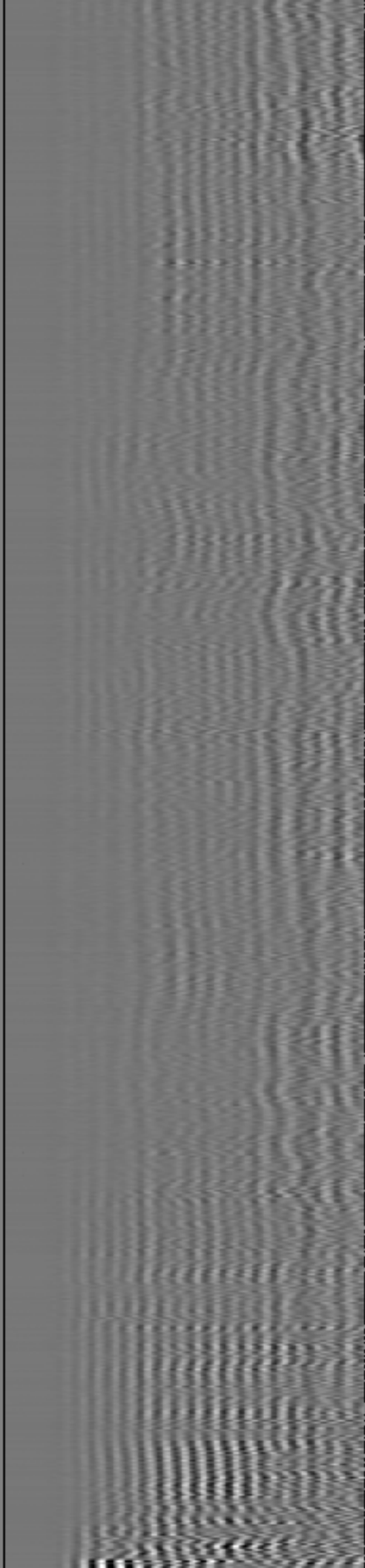
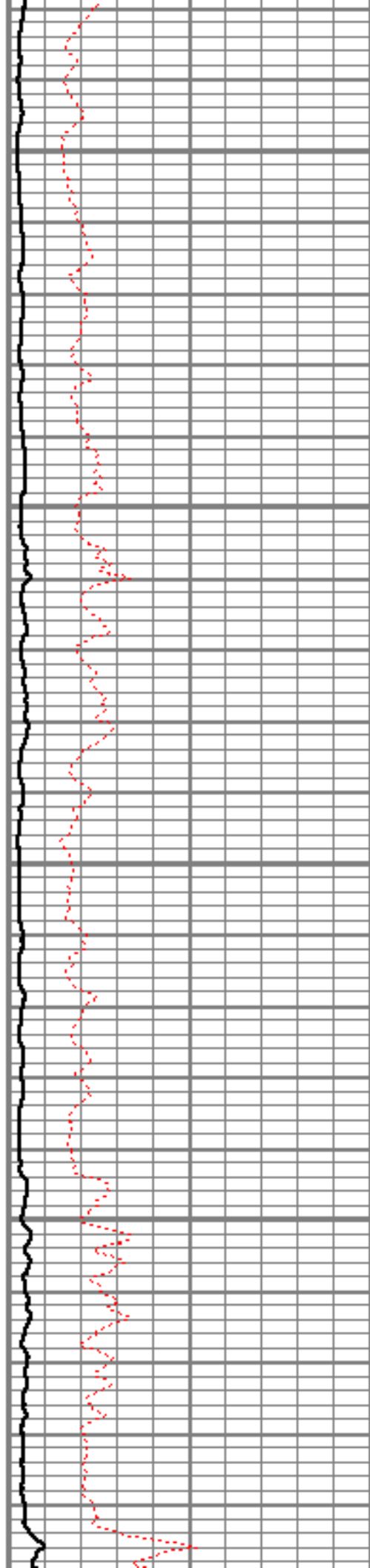


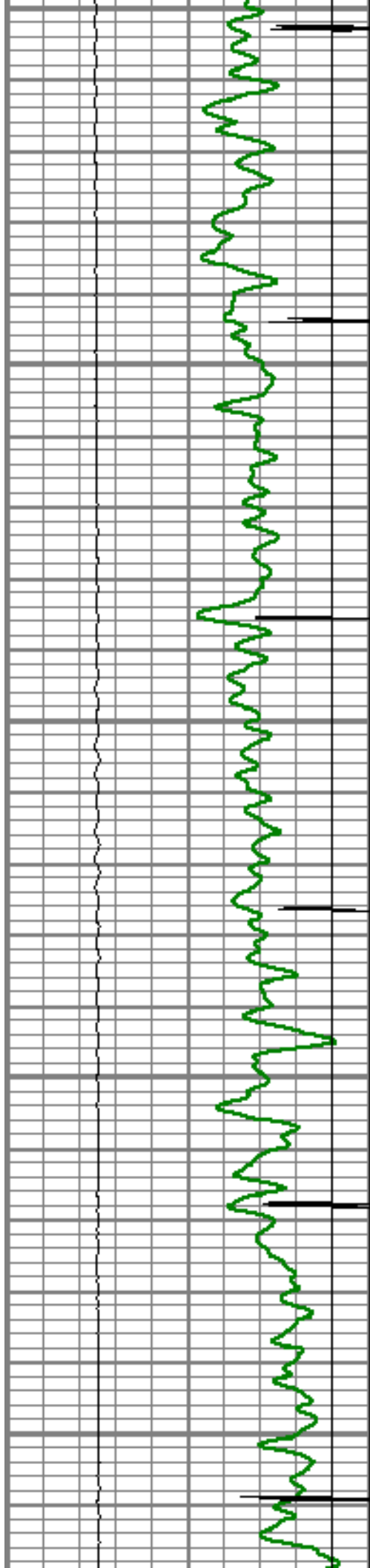
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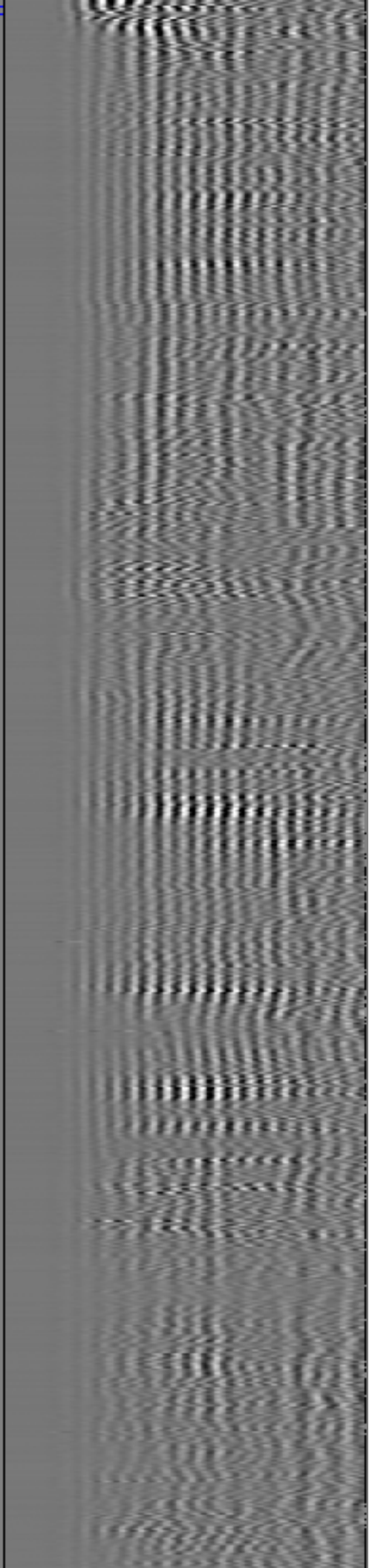
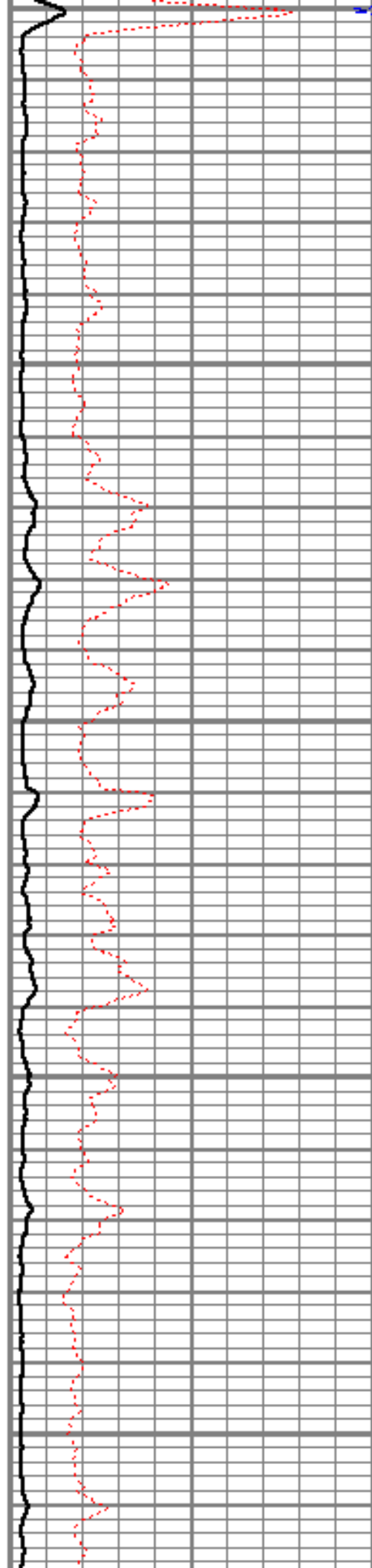
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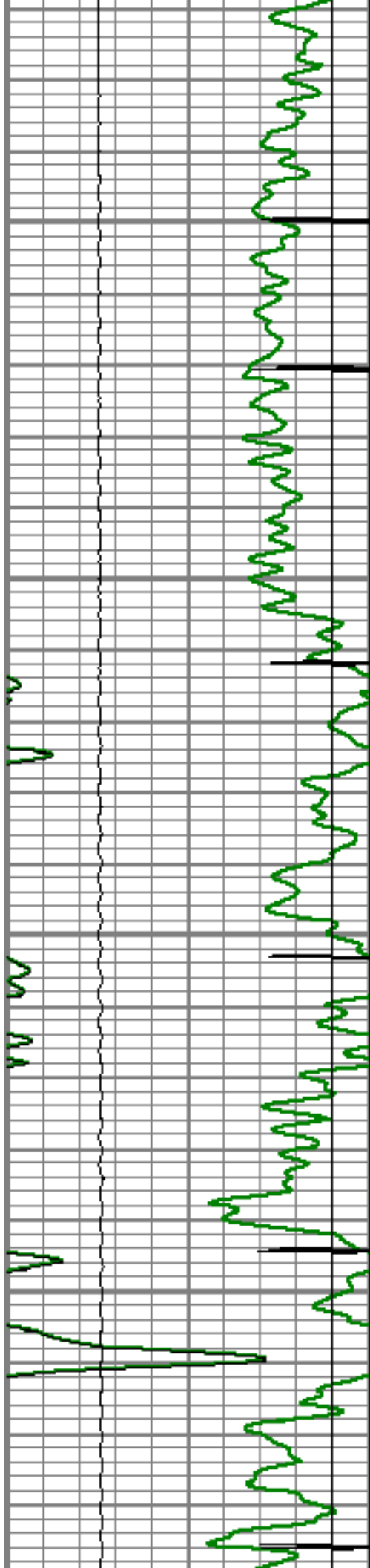
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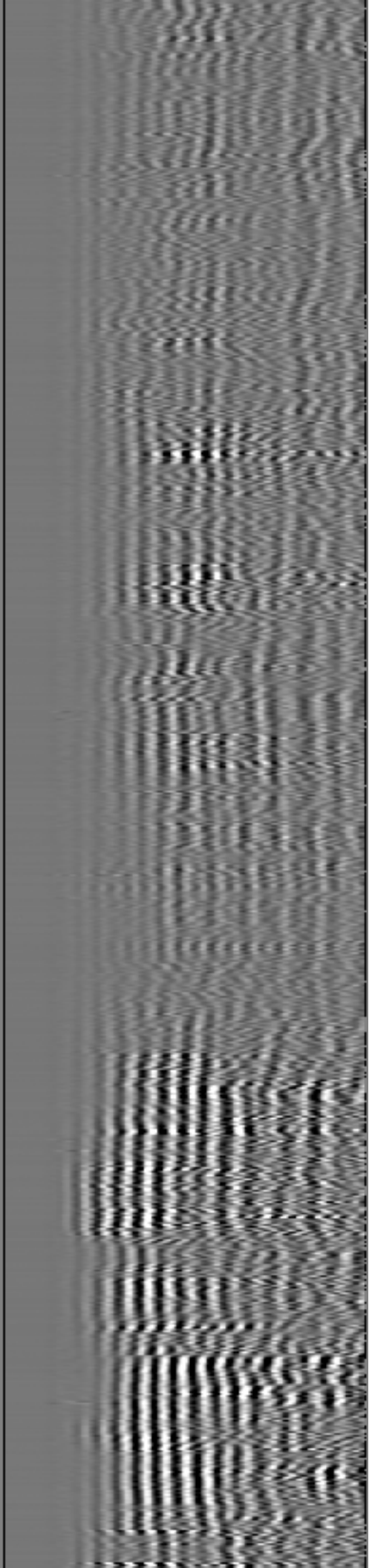
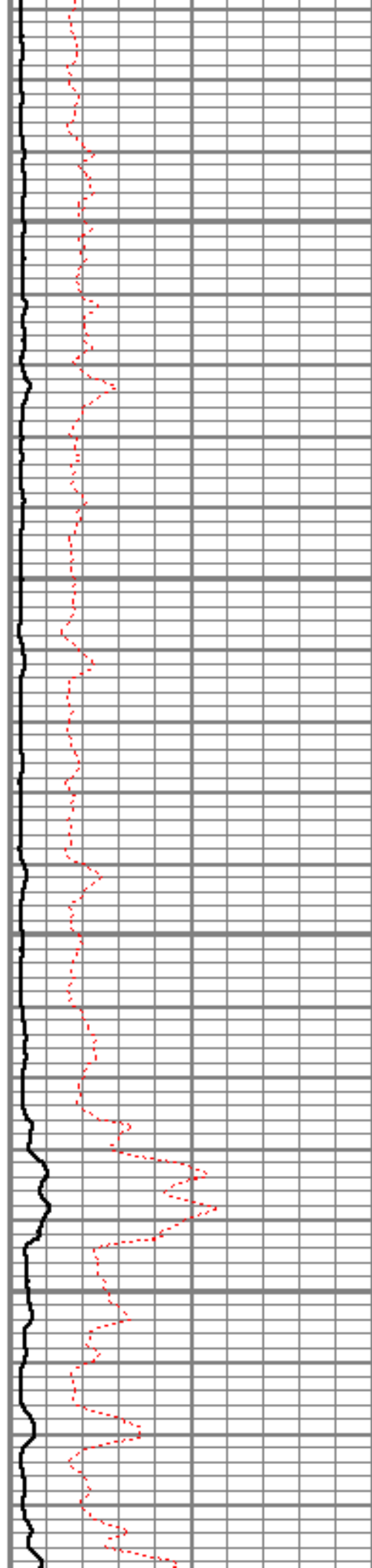


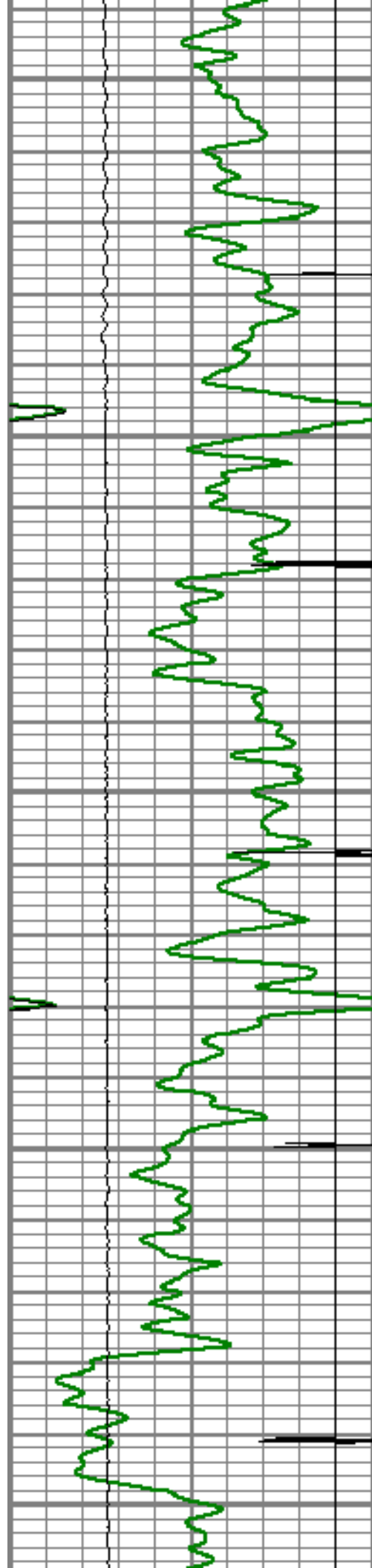
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Short Joint

7400

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7500





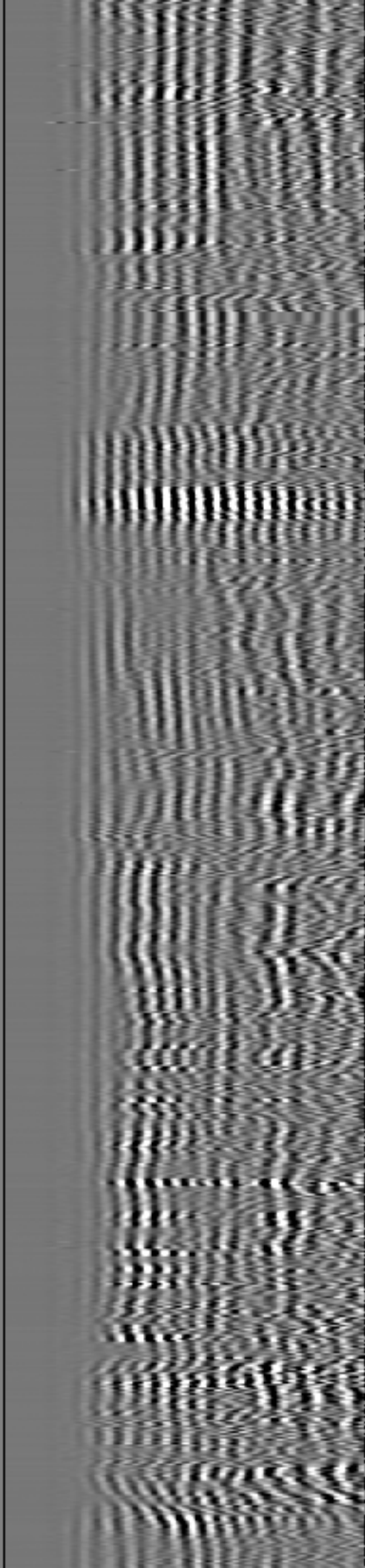
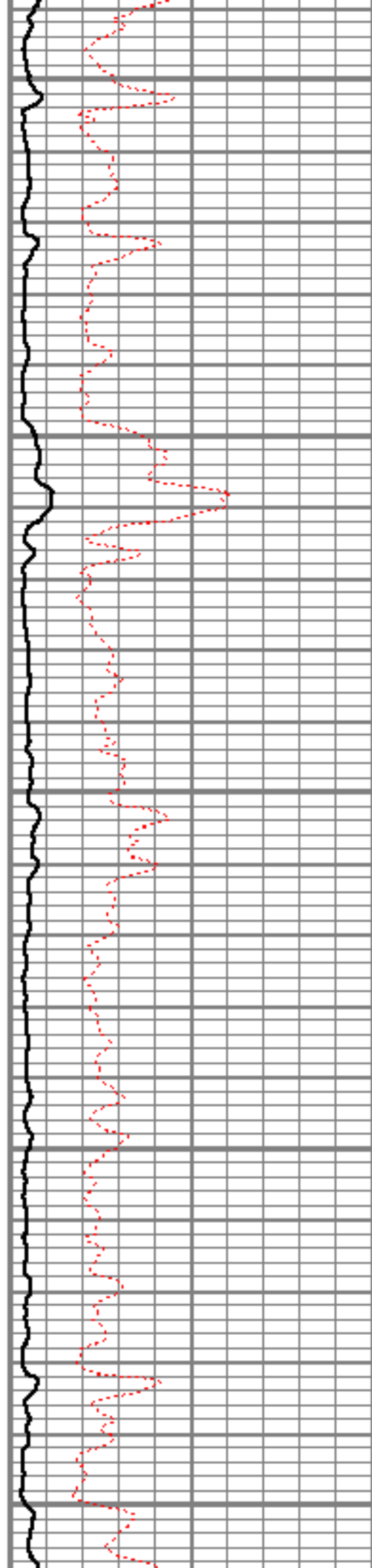
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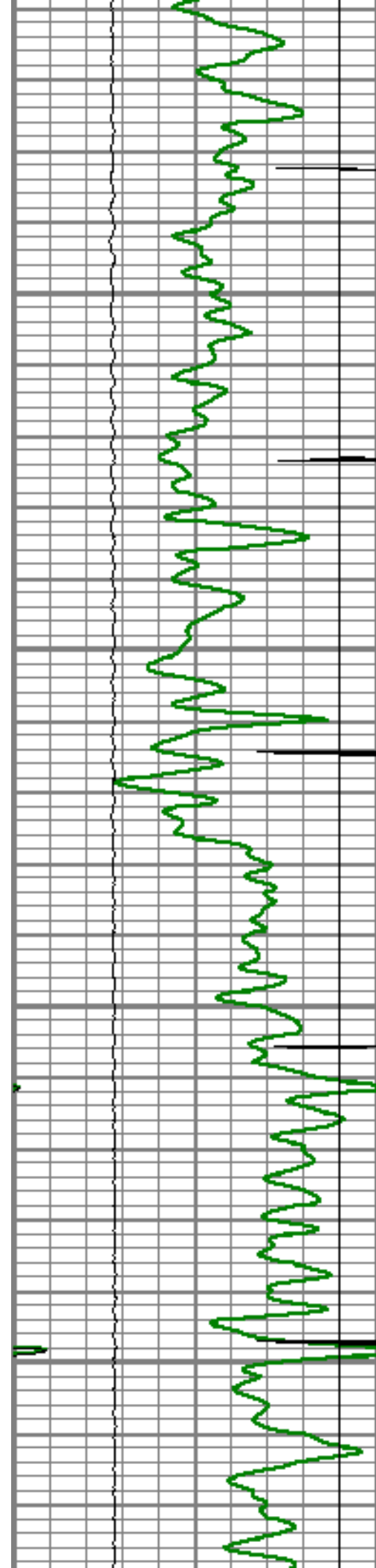
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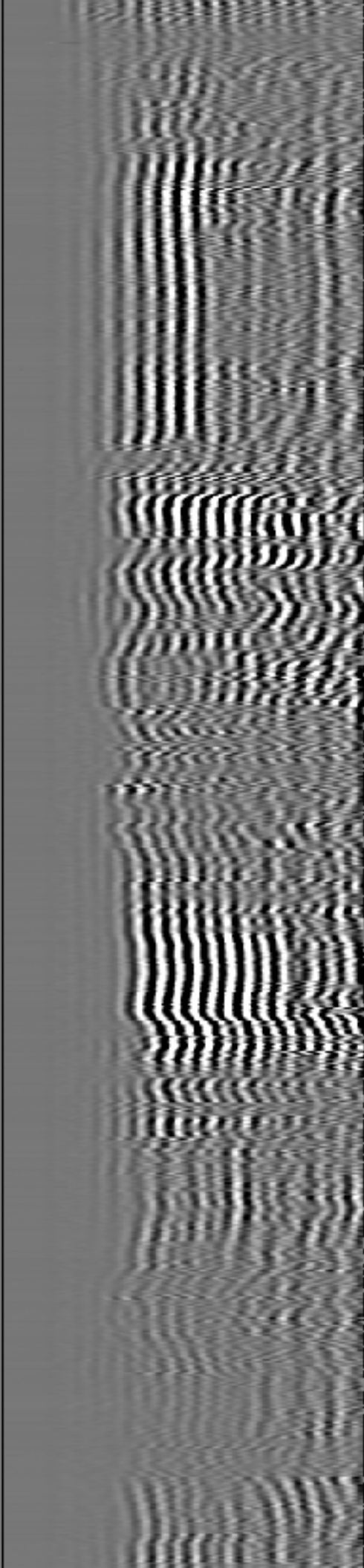
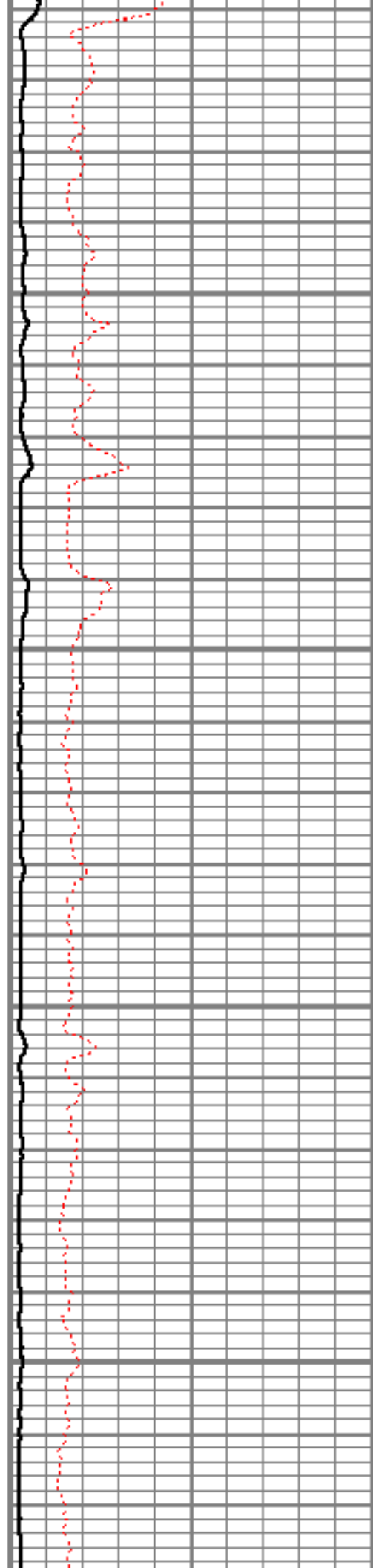


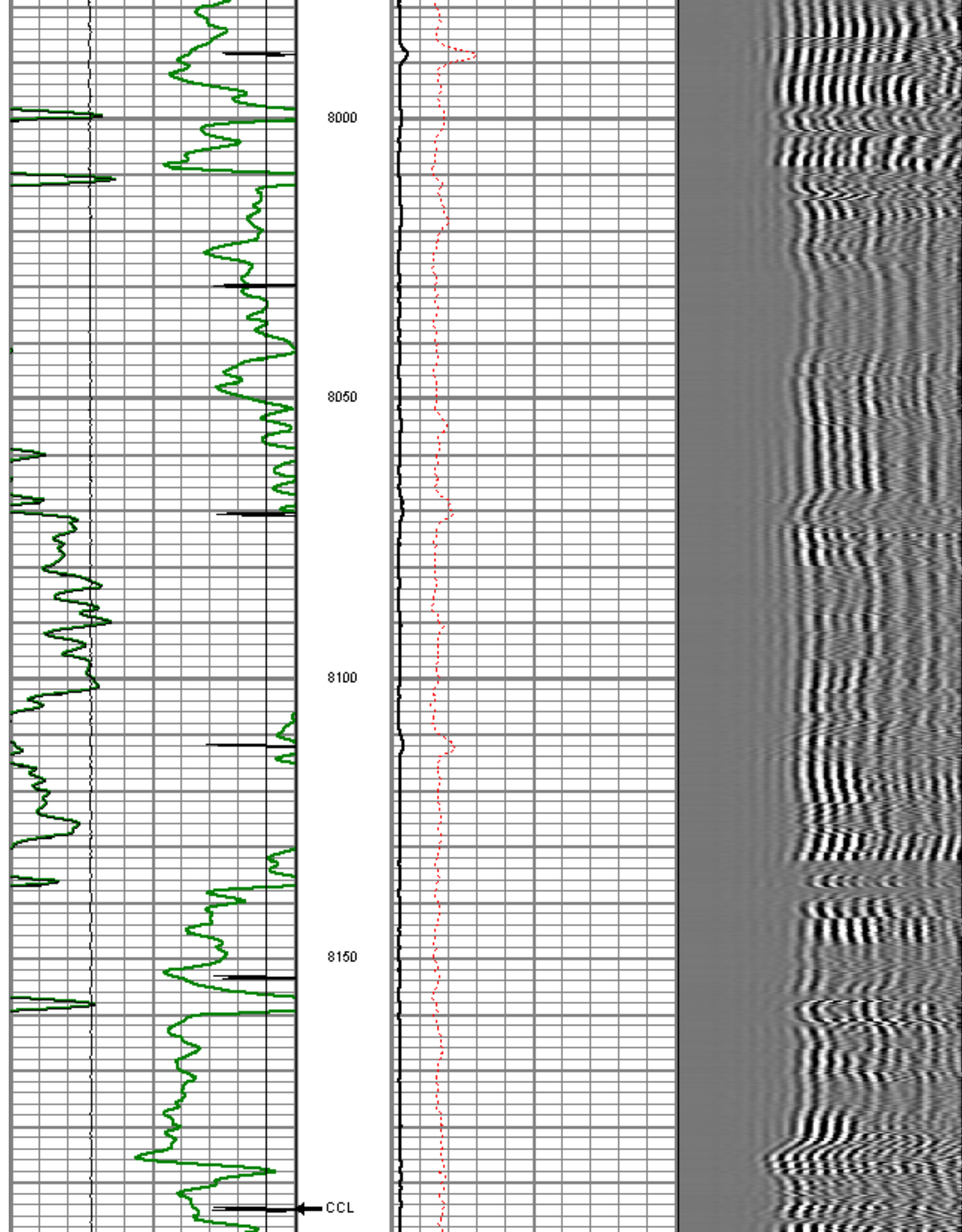
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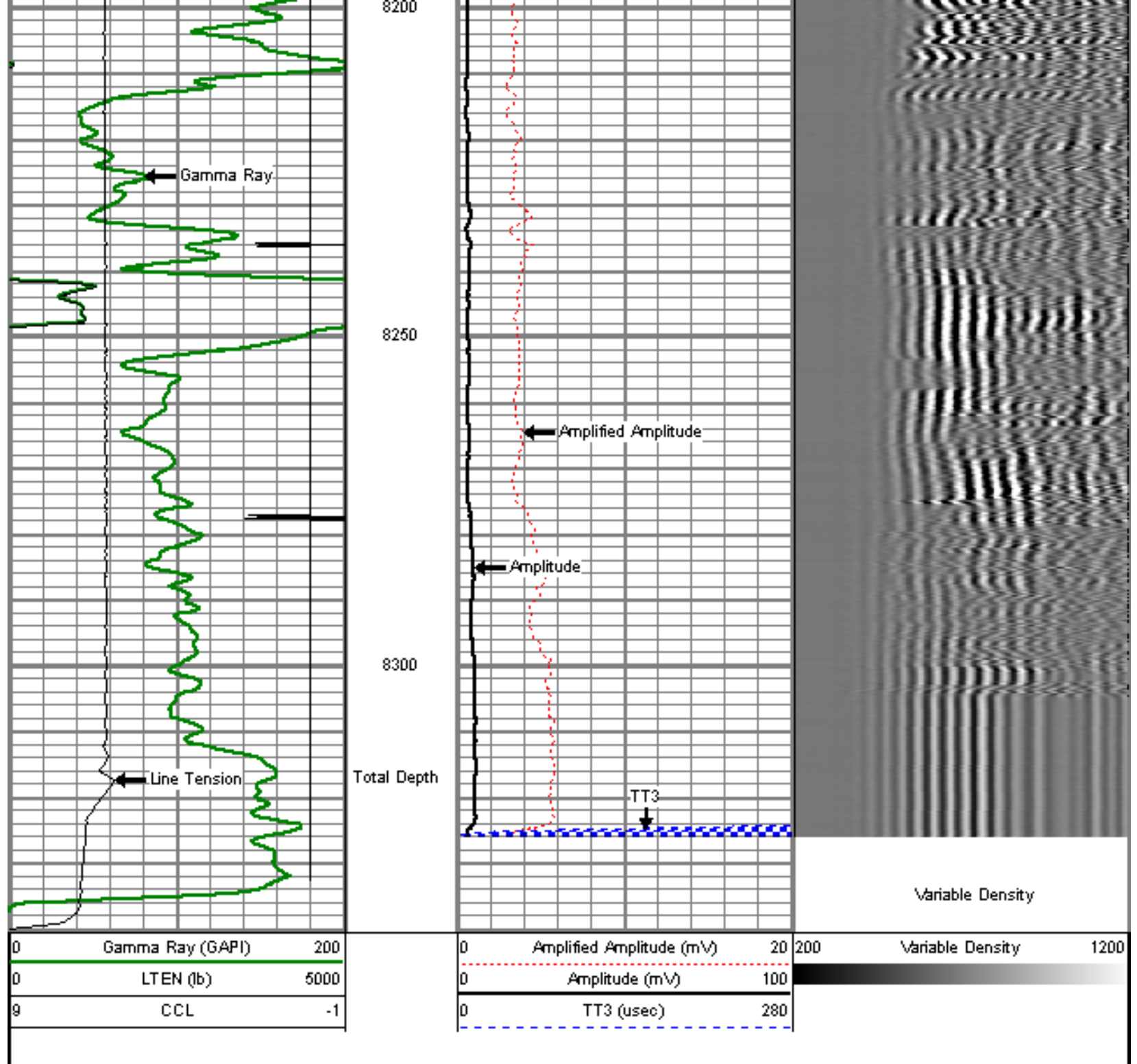
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7950







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

WVF3	14.54		CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.7711) Probe 2.75" Dual Receiver Board	2.75	60.00
WVF5	13.54				
			Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer	2.88	10.00
CCL	6.50		GR-PROBE_GRCCCL (PRB_GRCCCL_275_01)4.54 Probe 2.75" 4 Channel Pulse	2.75	30.00
GR	3.77				
			TEMP-Comprobe (TEMP_CMPRB_1375_01)2.88 Positive pulse Temp tool	1.38	15.00
TEMP	0.17				
Dataset: billings 22-18.db: field/well/run1/pass60H Total Length: 22.96 ft Total Weight: 126.50 lb O.D.: 2.75 in					



Company

Well

Field

County

State

ENCANA OIL & GAS INC. (USA)

BILLINGS 22-18

WATTENBERG

WELD

COLORADO