



# CEMENT BOND LOG

Mesa Wireline

Company ENCANA OIL & GAS (USA) INC  
Well FILE 32-17  
Field WATTENBERG  
County WELD  
State COLORADO

Company ENCANA OIL & GAS (USA) INC  
Well FILE 32-17  
Field WATTENBERG  
County WELD State COLORADO

Location: API #: 05-123-34130-0000  
SHL: 1057' FNL & 1721' FEL  
BHL: 2150' FNL & 2150' FEL  
SEC: 17 TWP: 2N RGE: 68W  
Permanent Datum GROUND LEVEL Elevation 4883'  
Log Measured From KELLY BUSHING = 13'  
Drilling Measured From KELLY BUSHING  
Other Services  
NONE  
Elevation  
K.B. 4896'  
D.F. 4895'  
G.L. 4886'

Date

12 APRIL 2012

Run Number

ONE

Depth Driller

8145'

Depth Logger

8080'

Bottom Logged Interval

8080'

Top Log Interval

3200'

Open Hole Size

7.875"

Type Fluid

WATER

Density / Viscosity

~8.3#

Max. Recorded Temp.

251 DEG F

Estimated Cement Top

3510'

Time Well Ready

N/A

Time Logger on Bottom

N/A

Equipment Number

10501 PRD01

Location

AULT, CO

Recorded By

Z. EMICK

Witnessed By

K. REDD

Run Number

ONE

Bit

12.25"

From

0'

To

1045'

Size

7.875"

From

1045'

To

8162'

Size

8.625"

Weight

24#

Top

0'

Bottom

1037'

Size

4.5"

Weight

11.6#

Top

0'

Bottom

8145'

Size

8.625"

Weight

24#

Top

0'

Bottom

1037'

<<< 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 PSI HIGH RESOLUTION INDUCTION LOG DATED 26 MARCH 2012

SHORT JOINT 7325' - 7348'

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



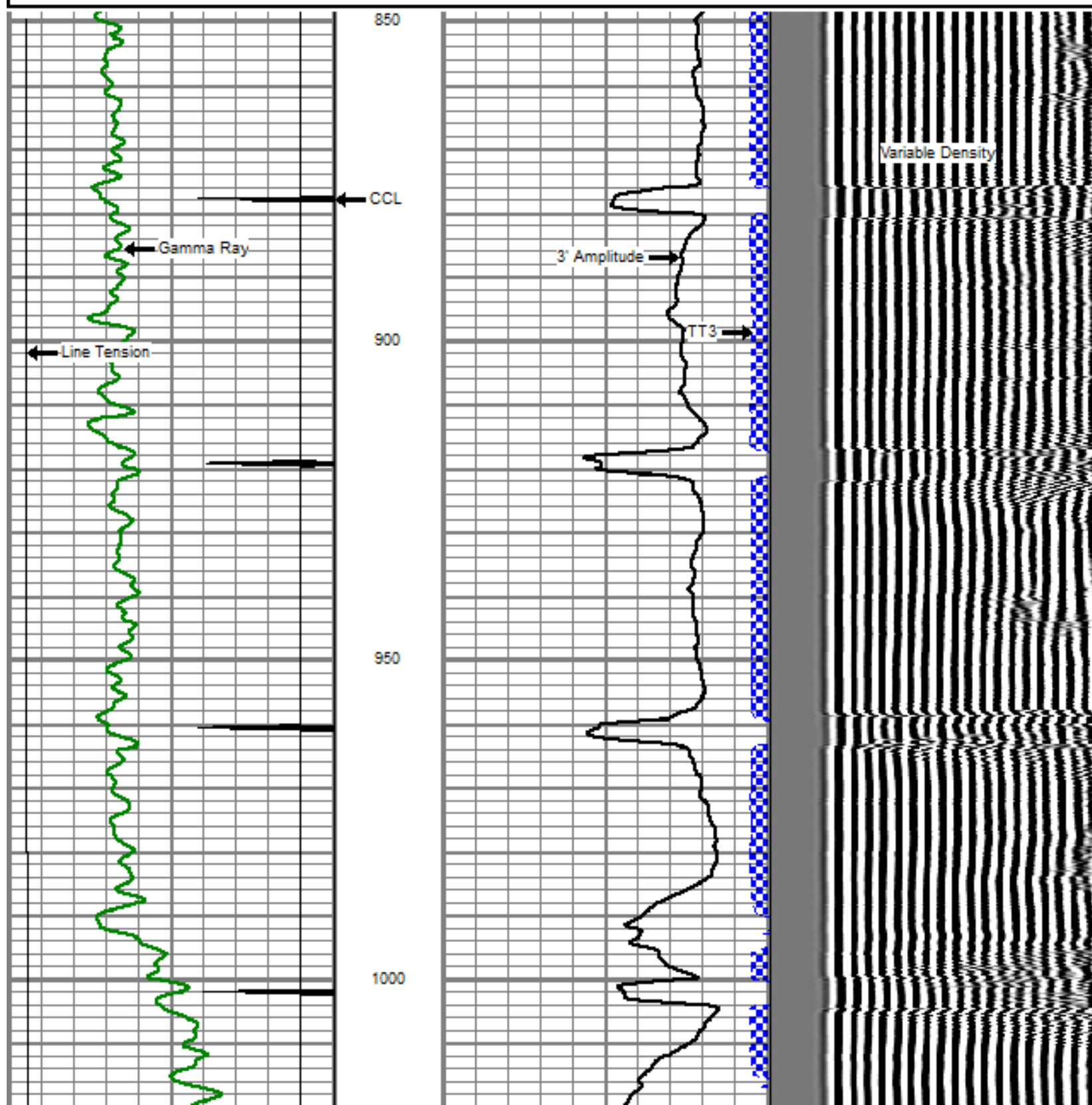
TOP PASS

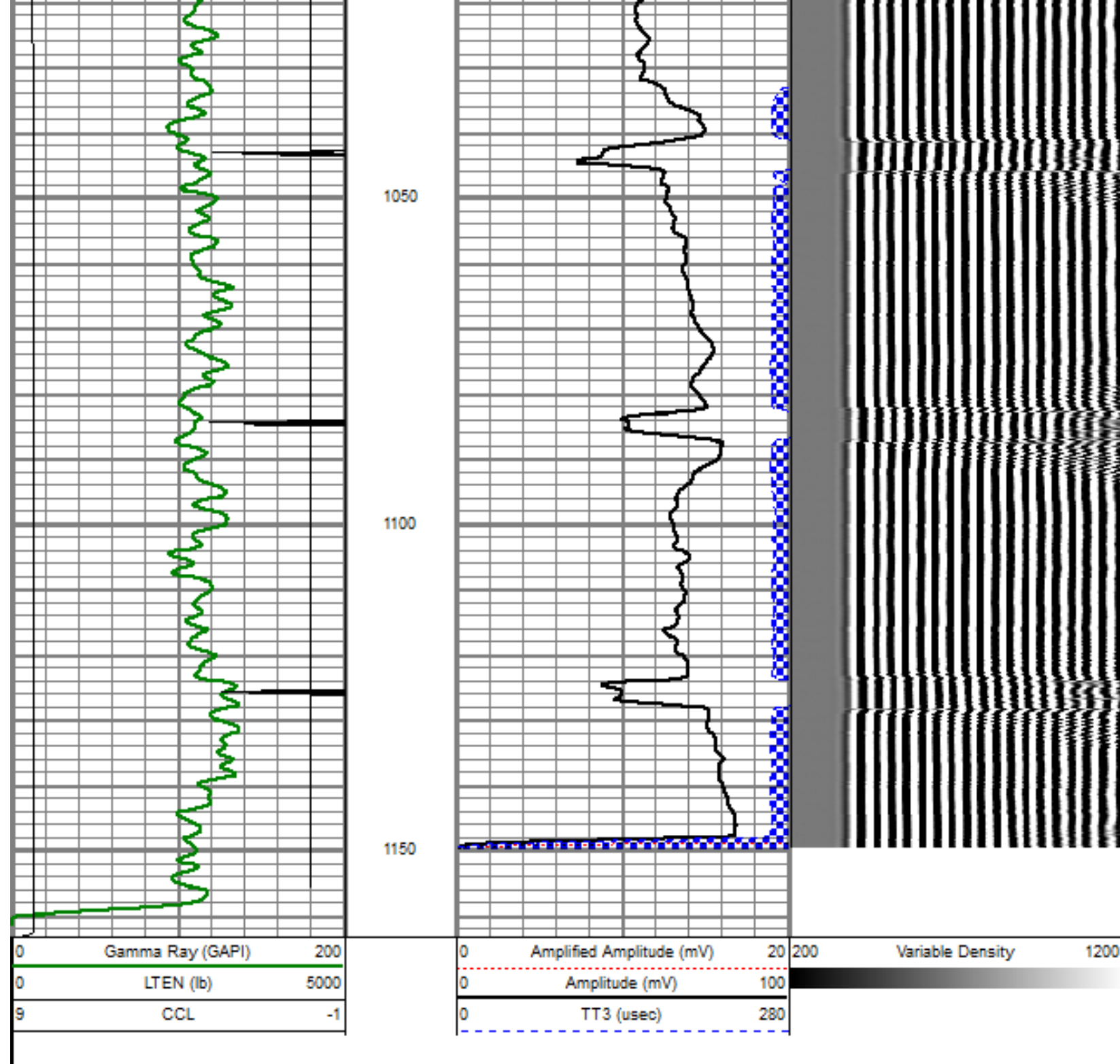
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Dataset Pathname: pass4.1  
Presentation Format: dobl\_prb  
Dataset Creation: Thu Apr 12 13:33:47 2012 by Calc SCH 110722  
Charted by: Depth in Feet scaled 1:240

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

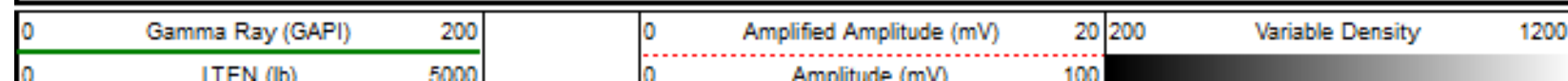




REPEAT PASS

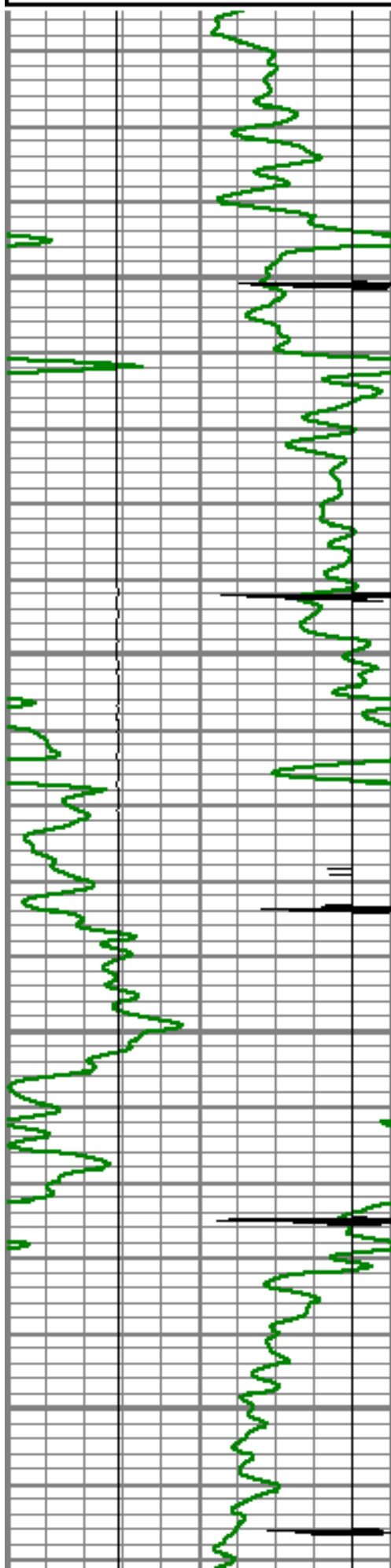
5" = 100'

Database File: file 32-17.db  
 Dataset Pathname: pass2  
 Presentation Format: dcbl\_prb  
 Dataset Creation: Thu Apr 12 11:59:33 2012 by Log SCH 110722  
 Charted by: Depth in Feet scaled 1:240



9 CCL -1

0 TT3 (usec) 280

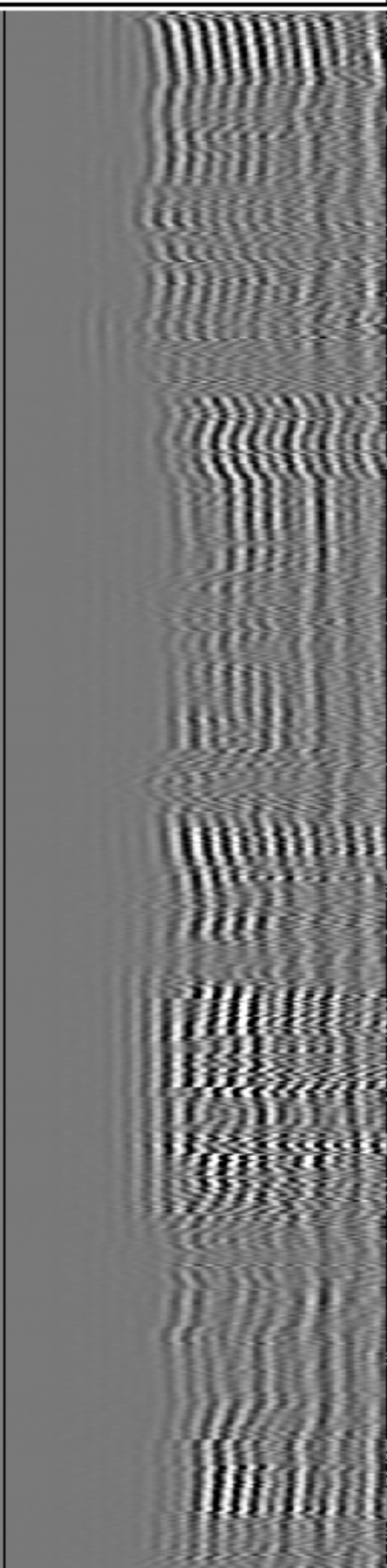
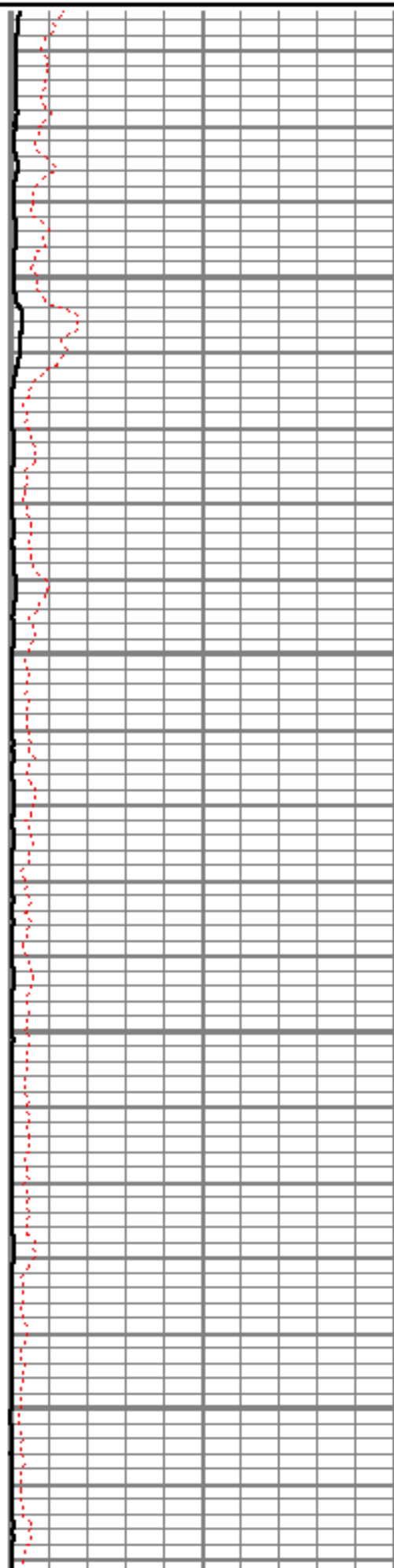


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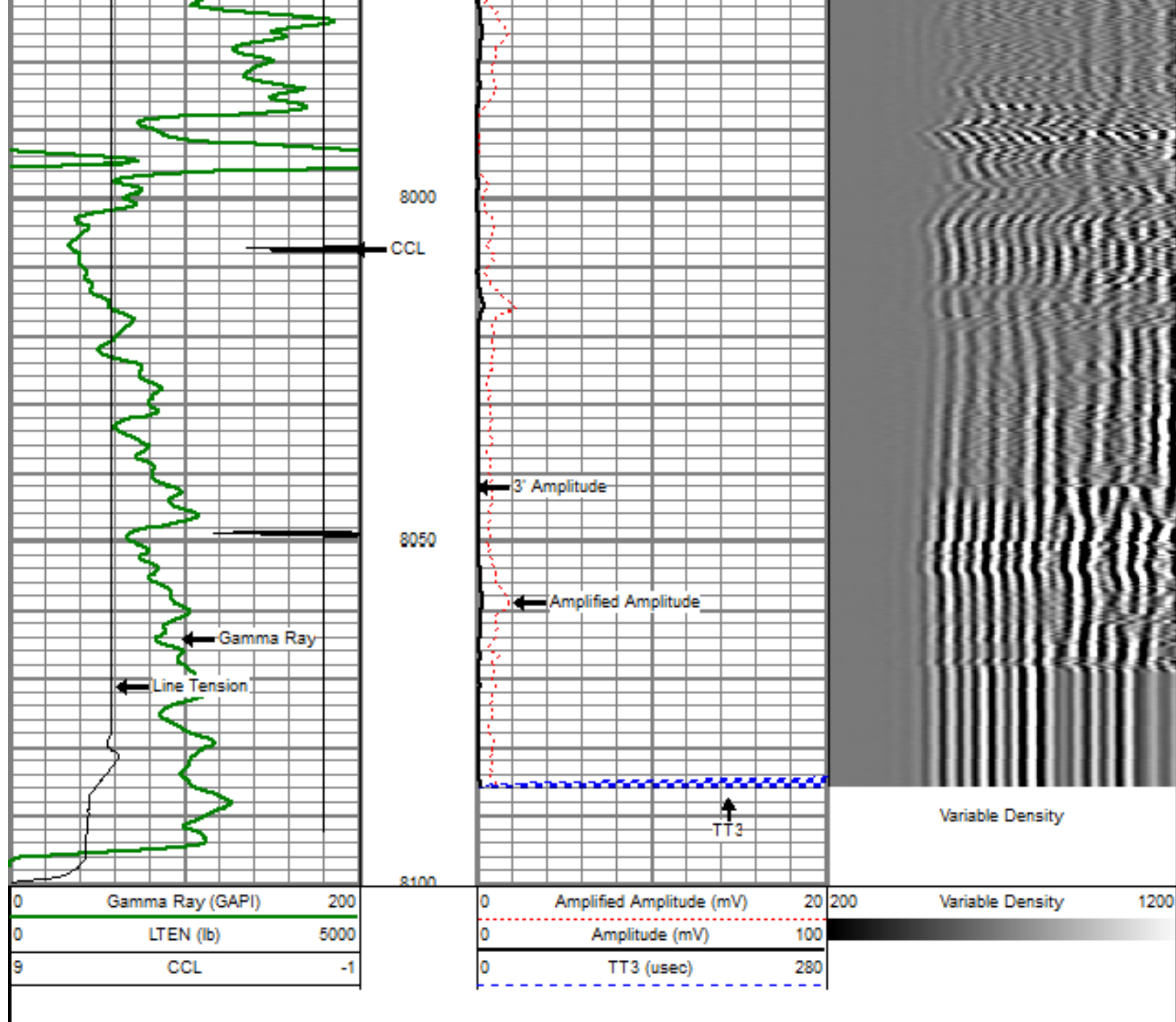
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7950



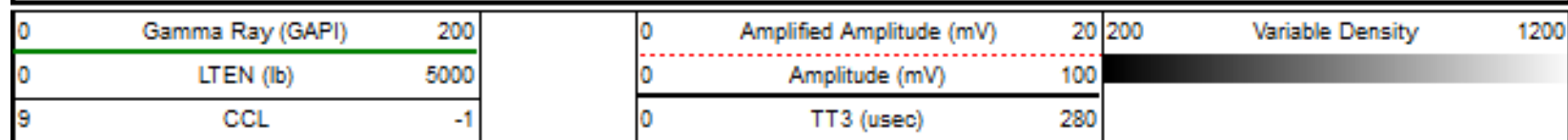


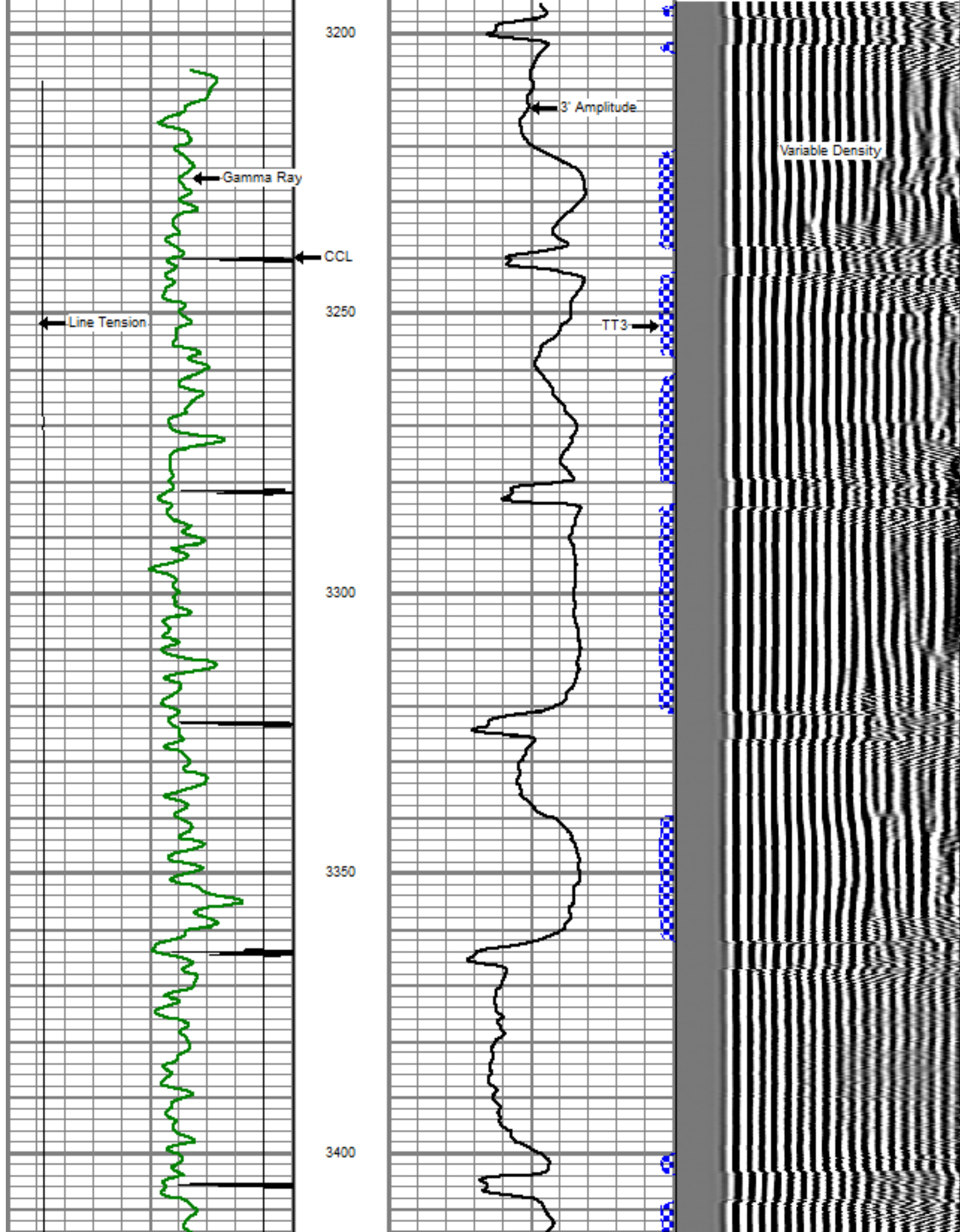


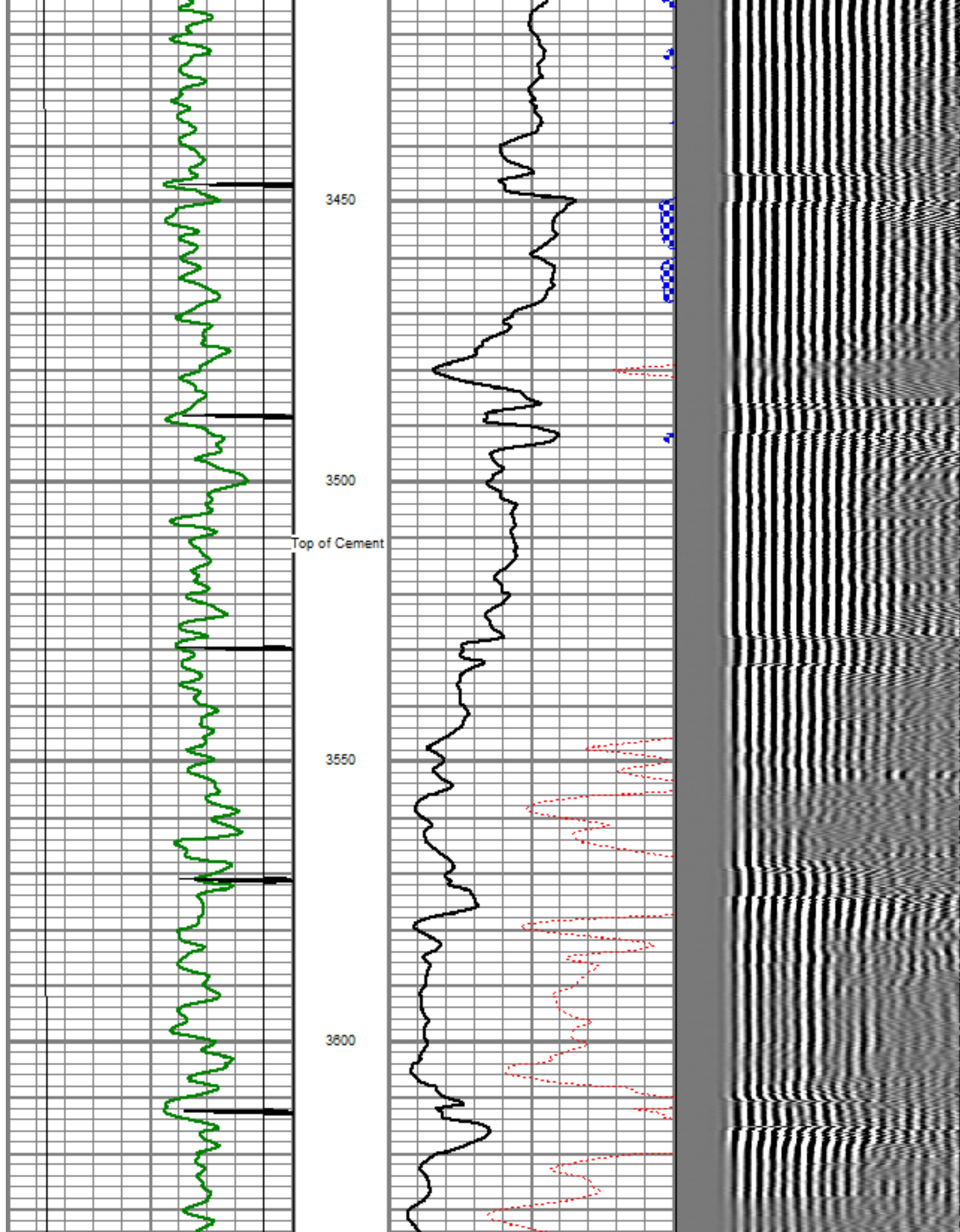
## MAIN PASS

5" = 100'

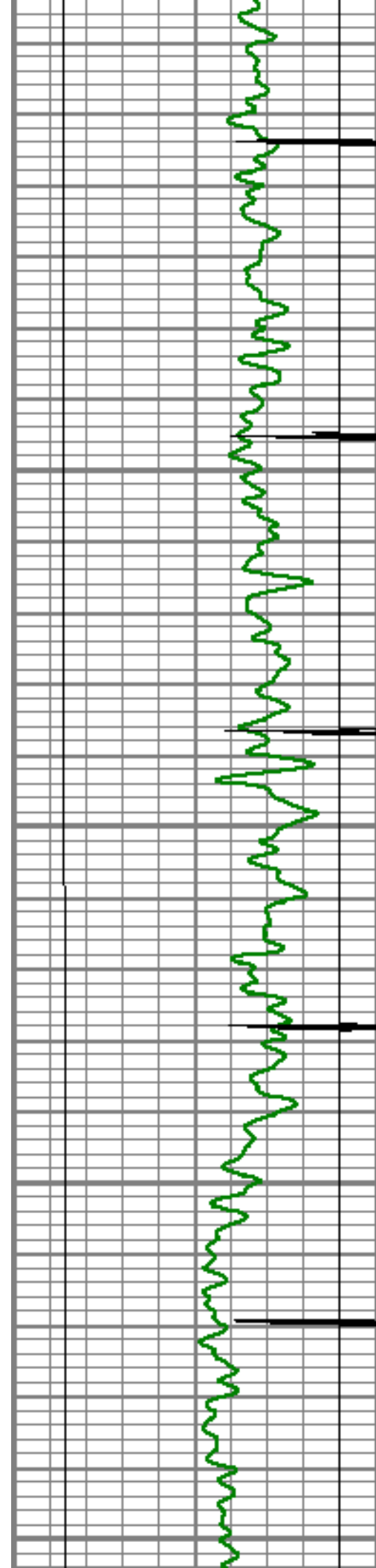
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 Charted by: Depth in Feet scaled 1:240











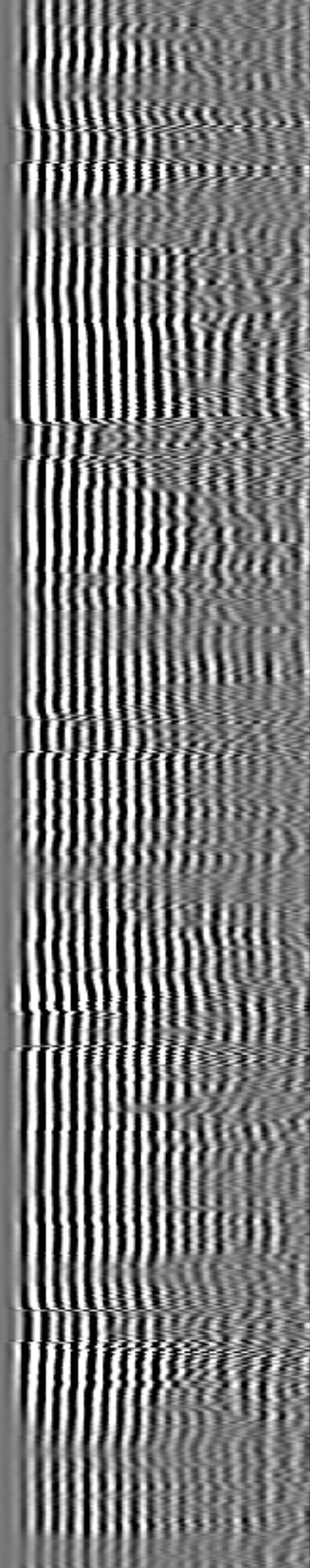
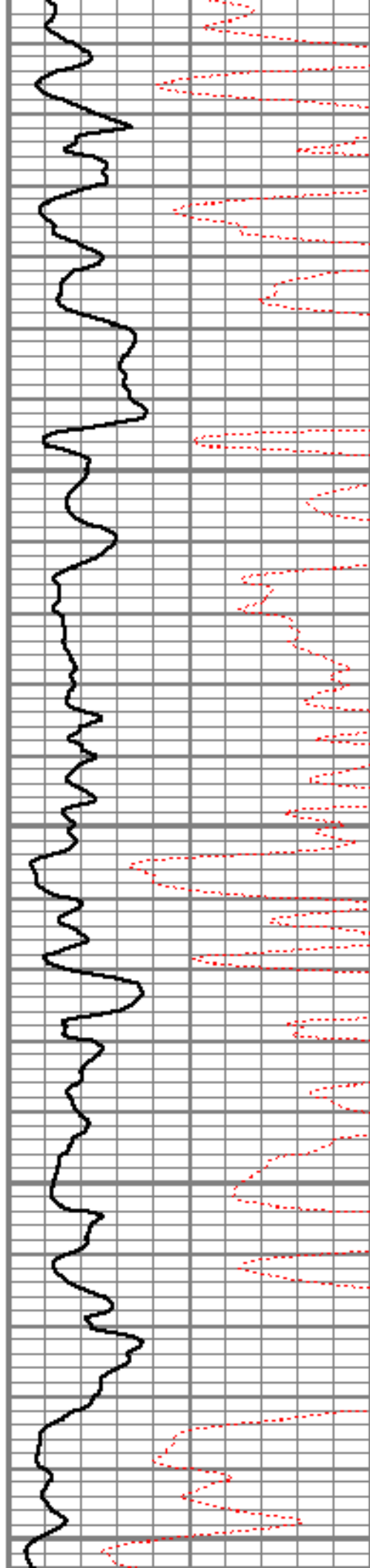
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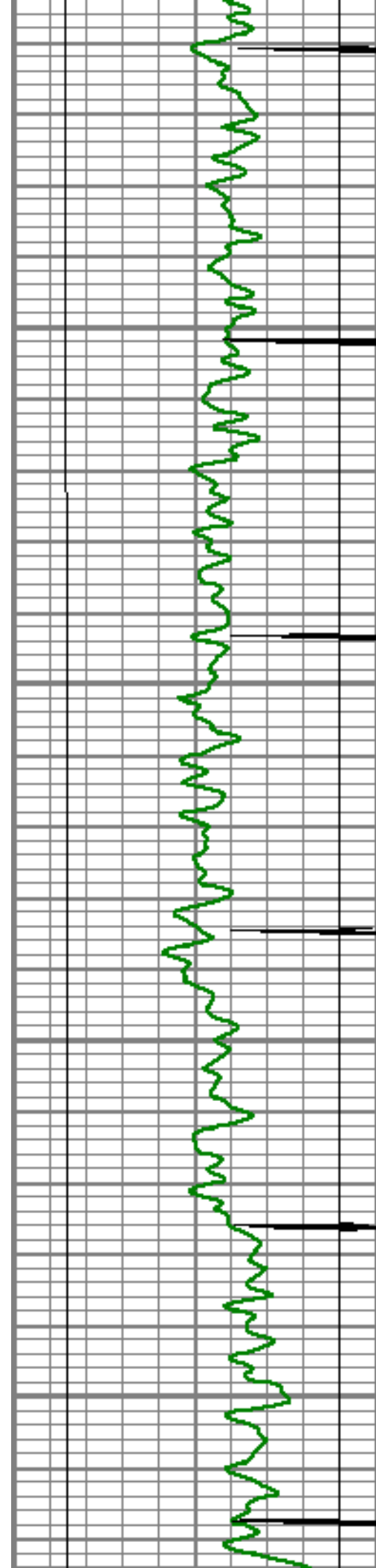
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3850





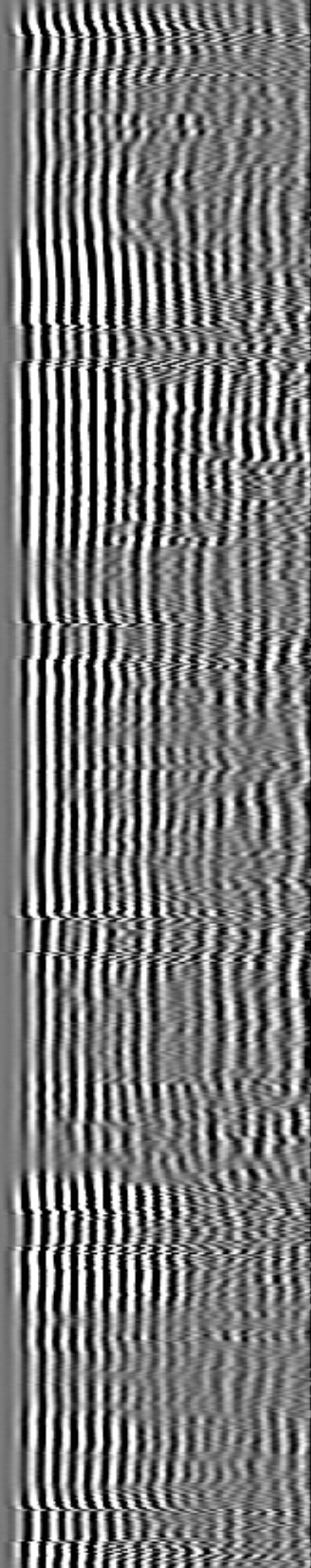
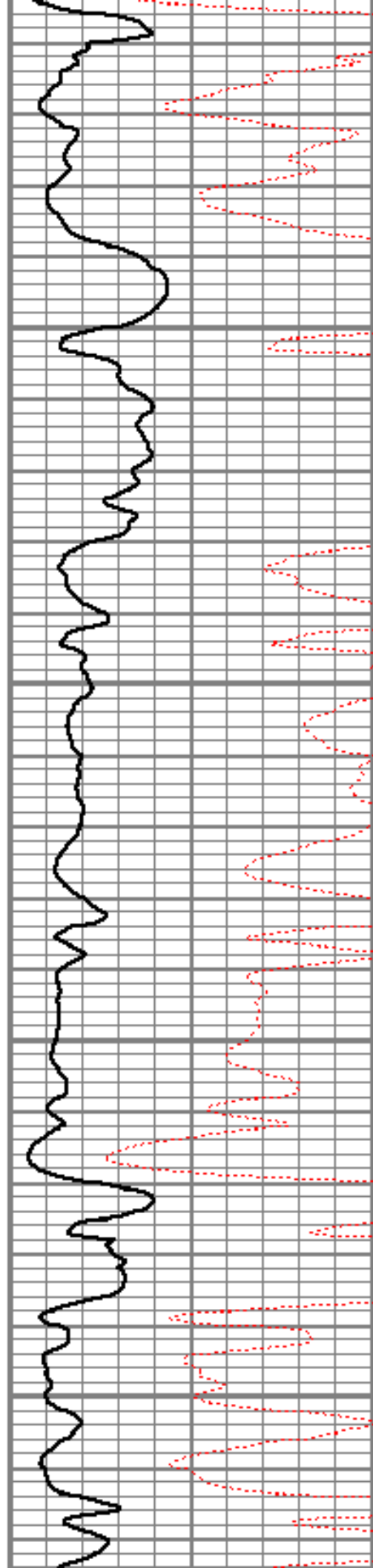


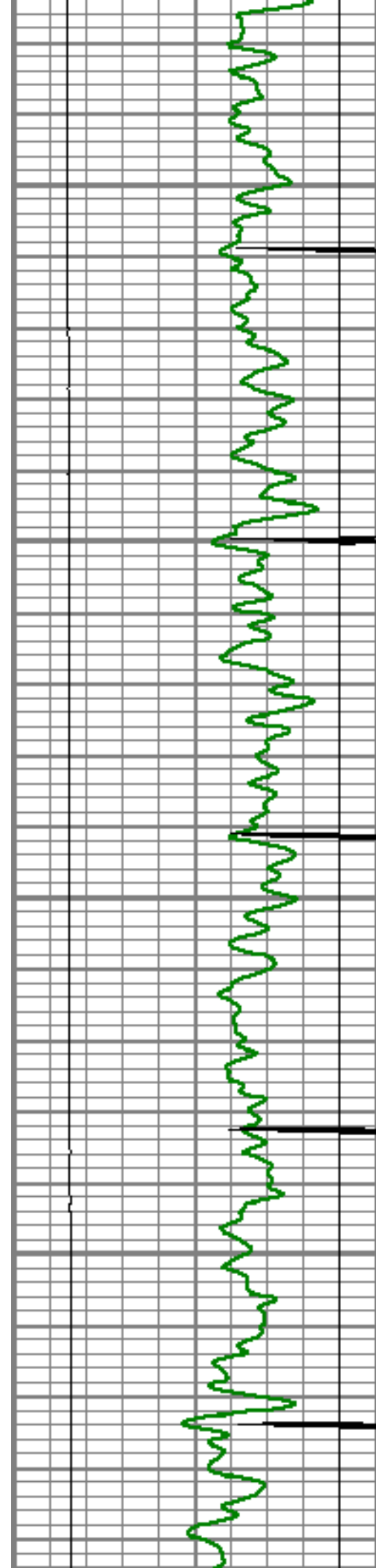
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3950

4000

4050



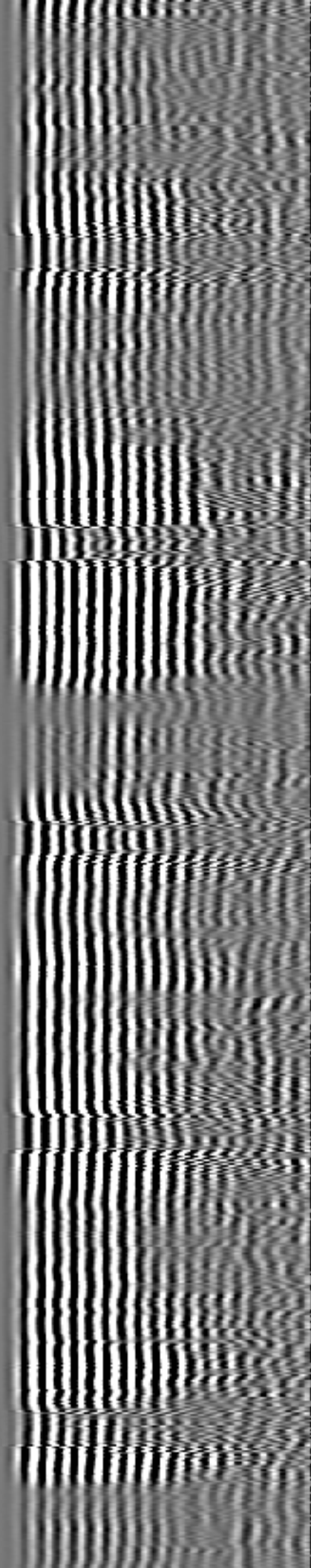
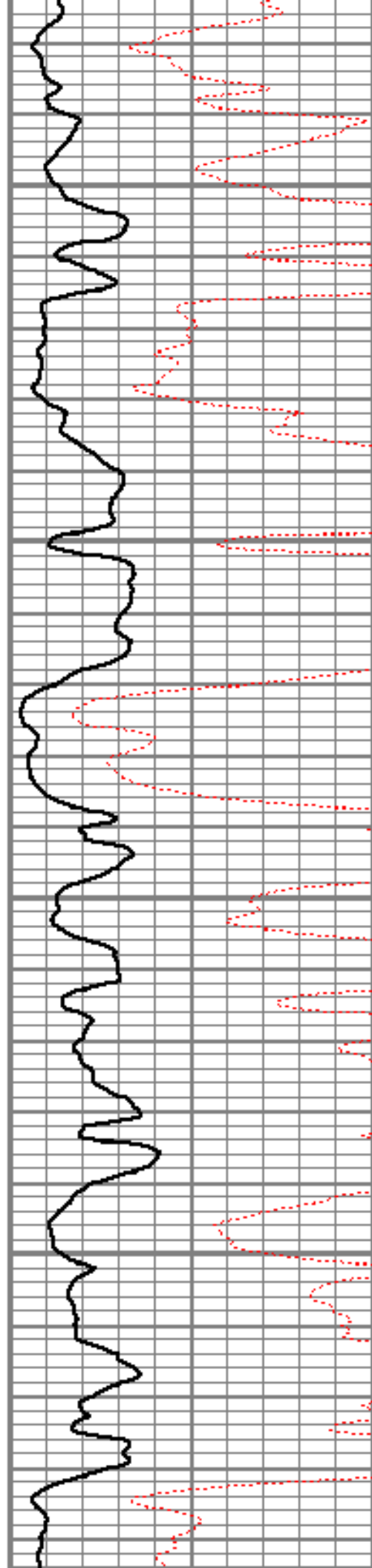


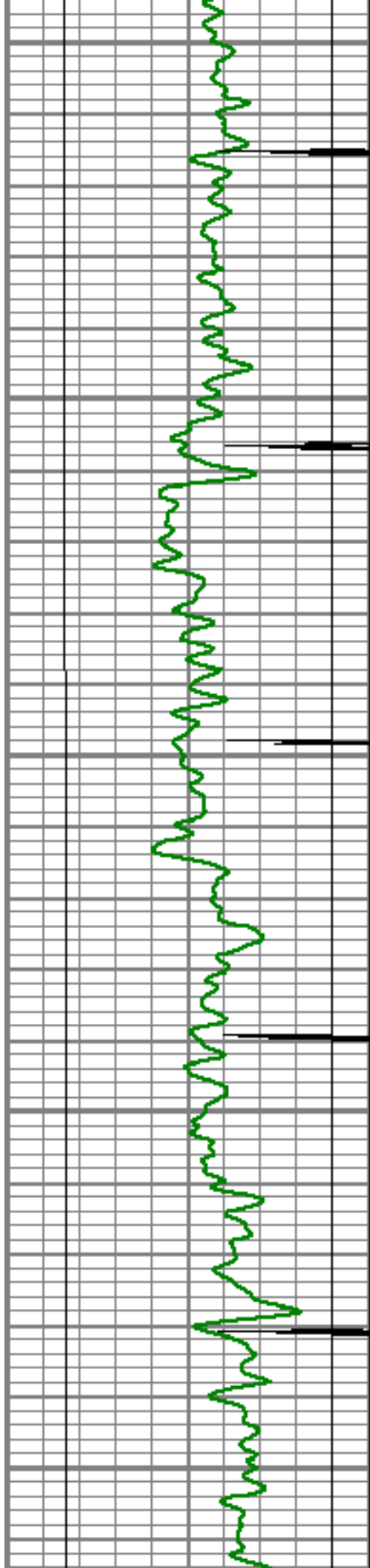
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4150

4200

4250





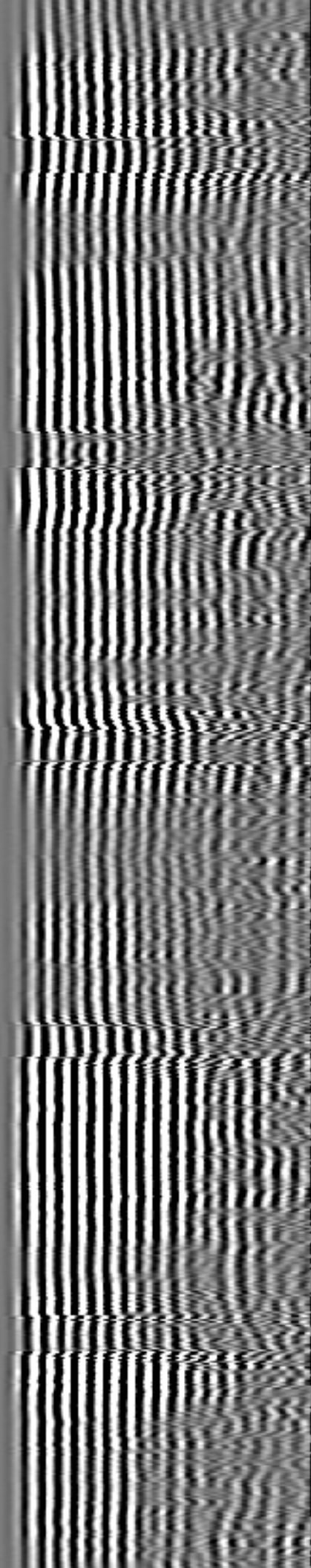
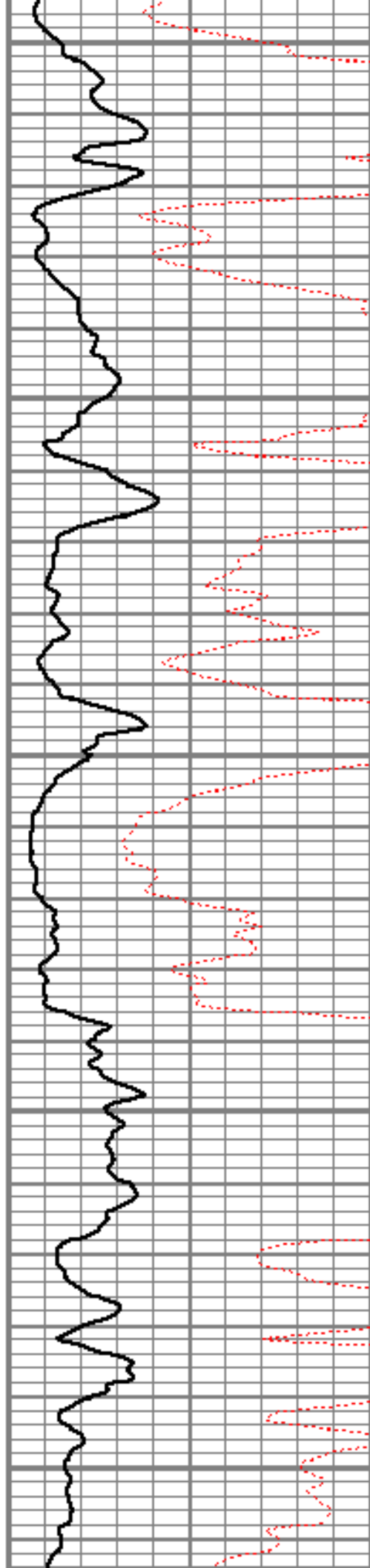
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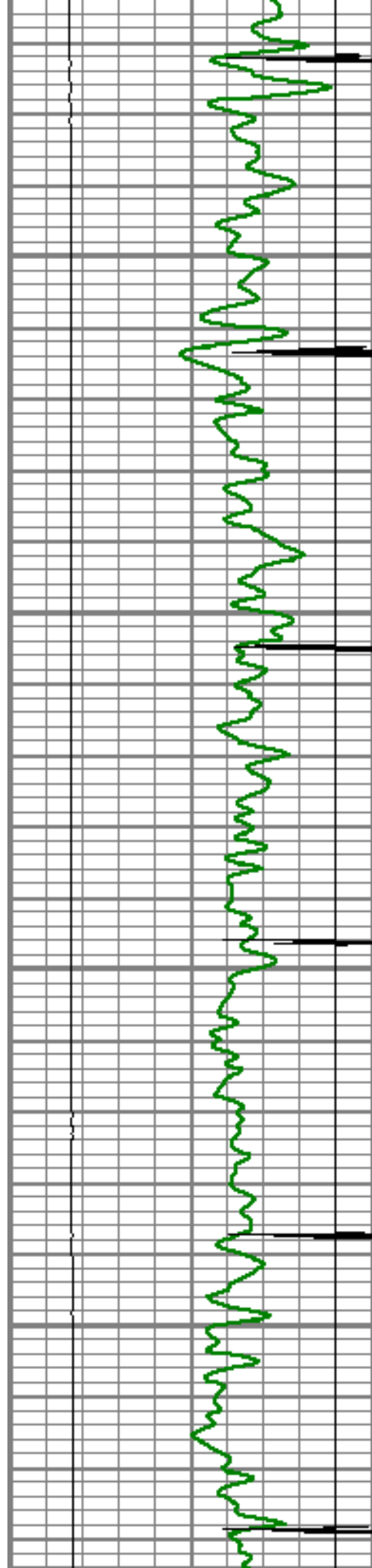
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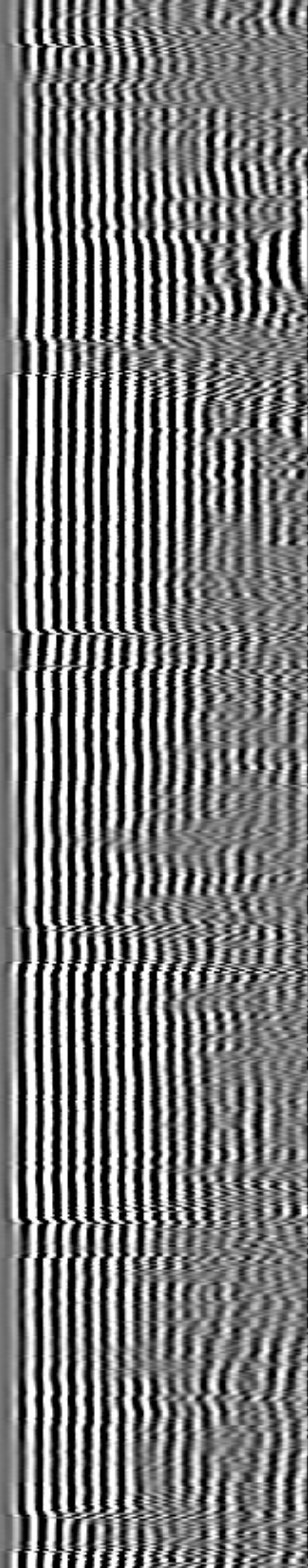
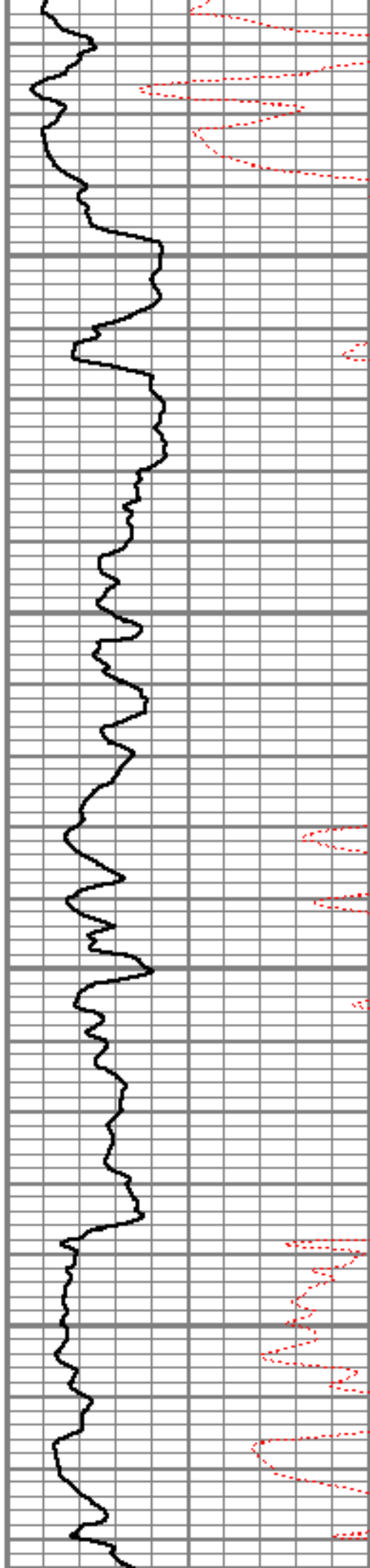


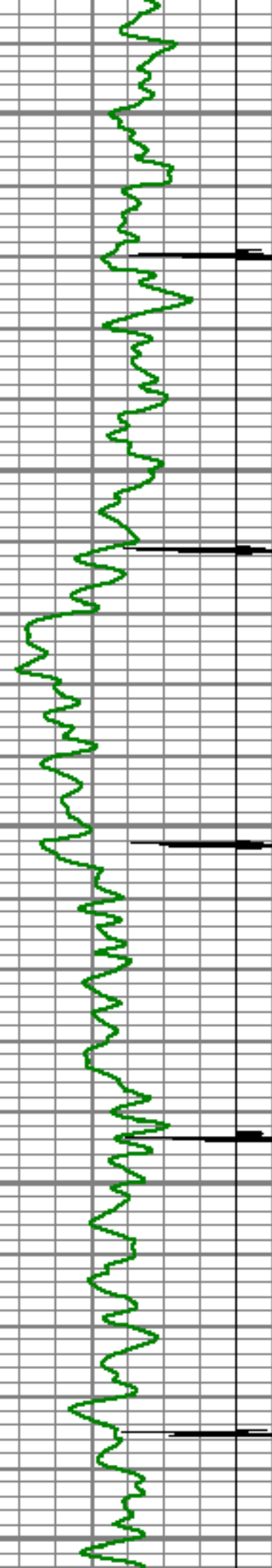
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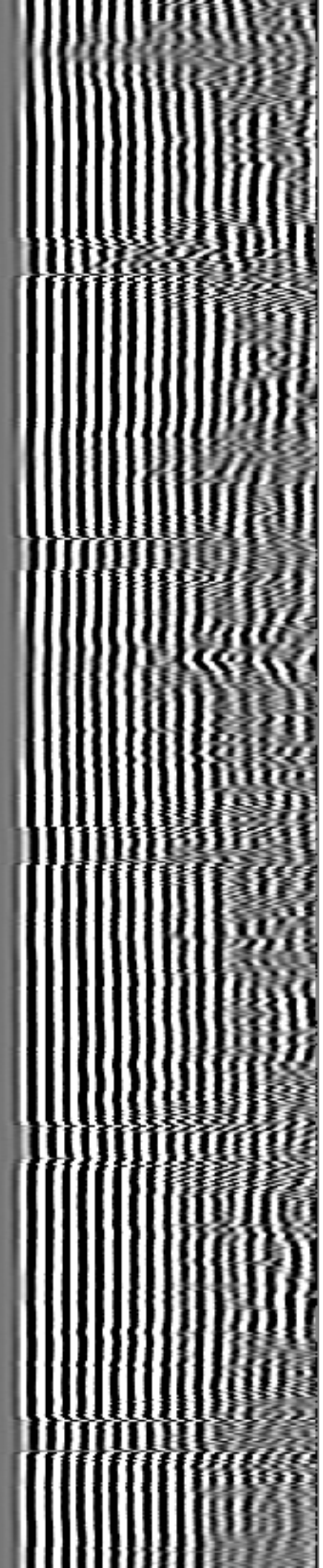
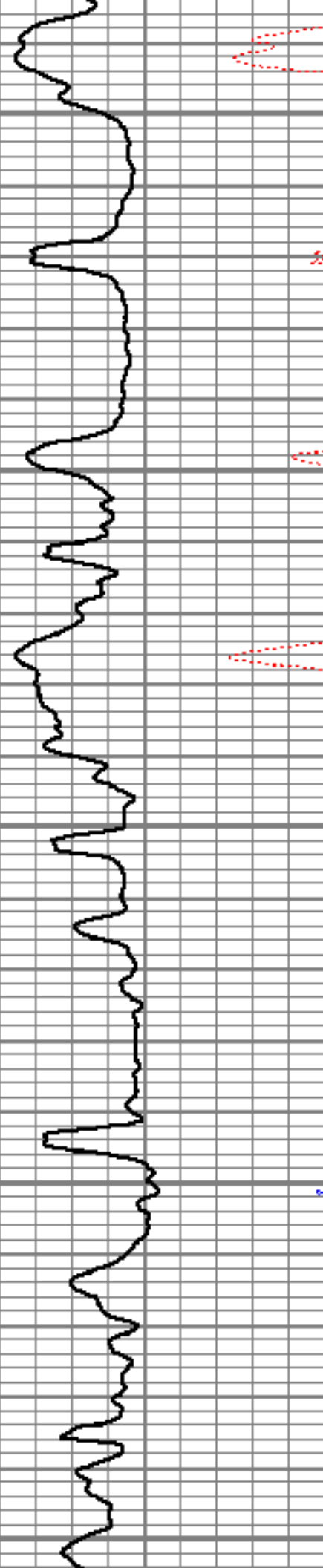
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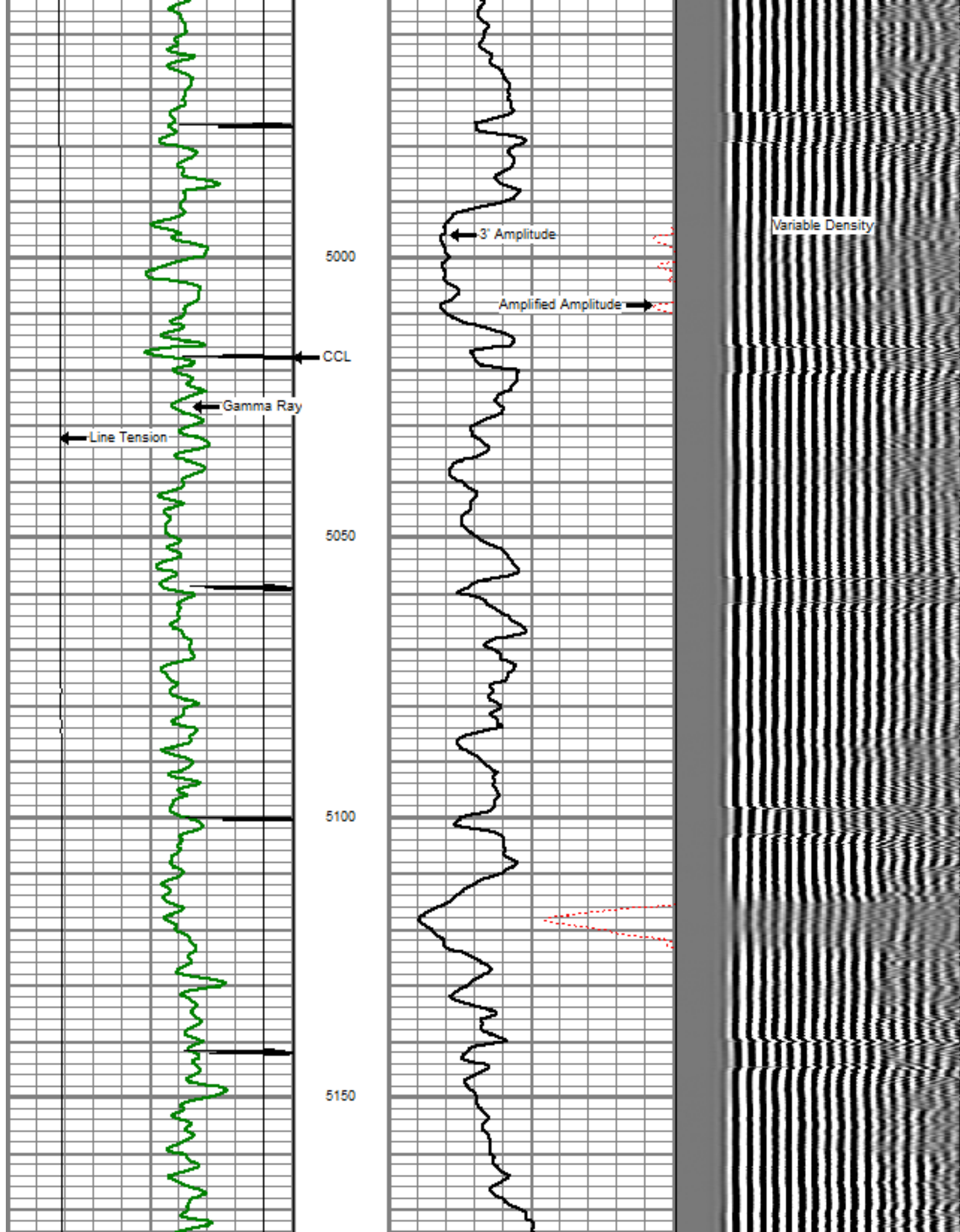
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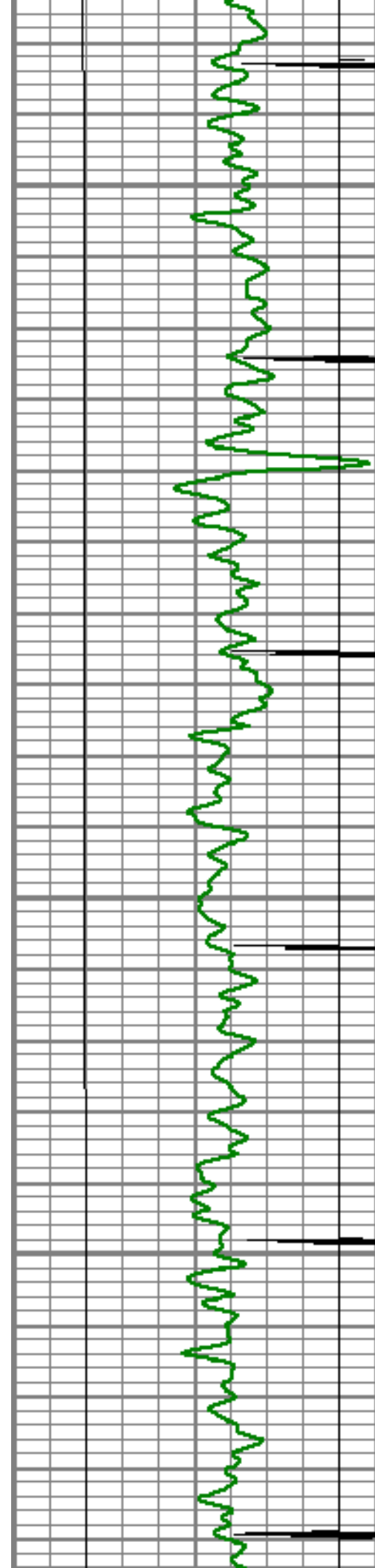
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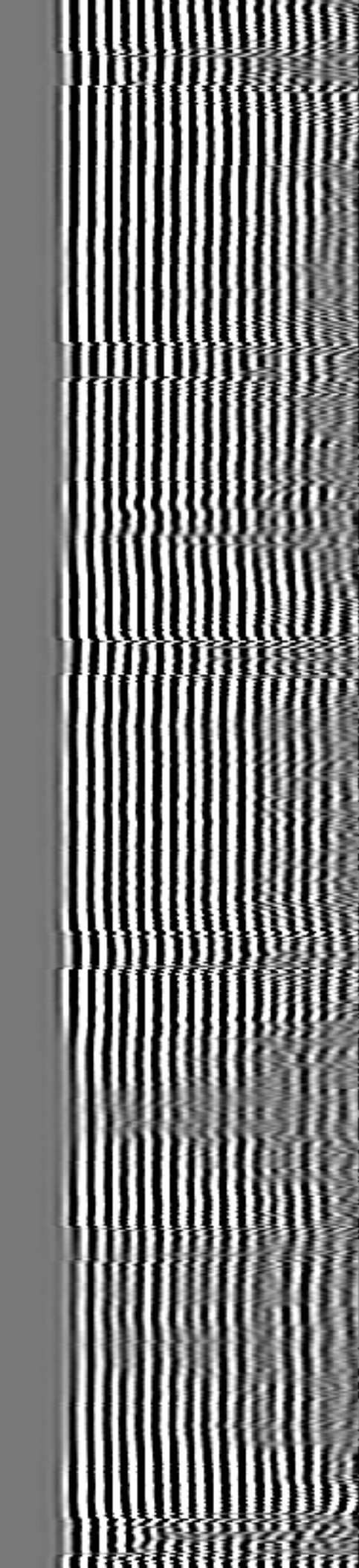
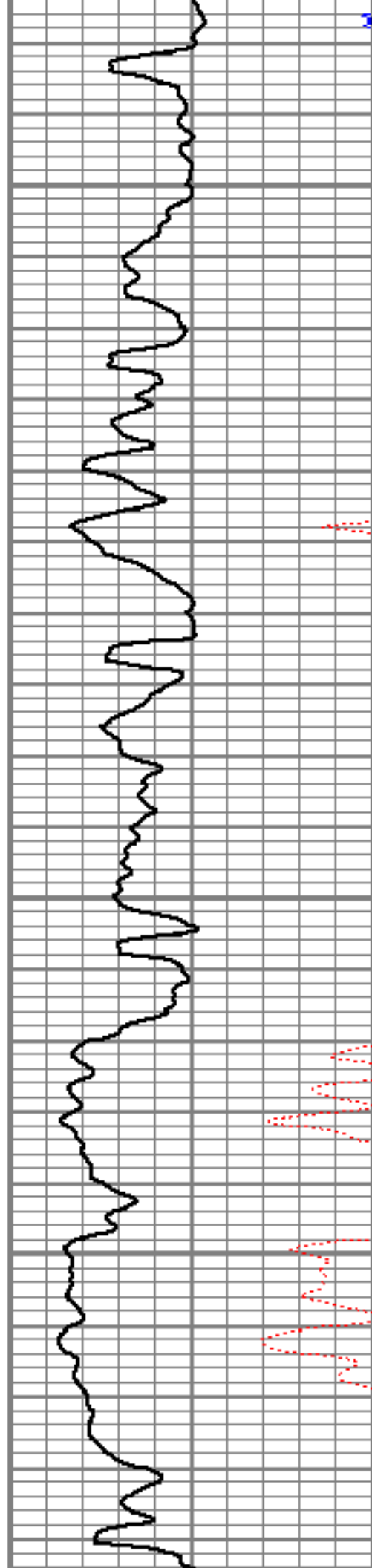


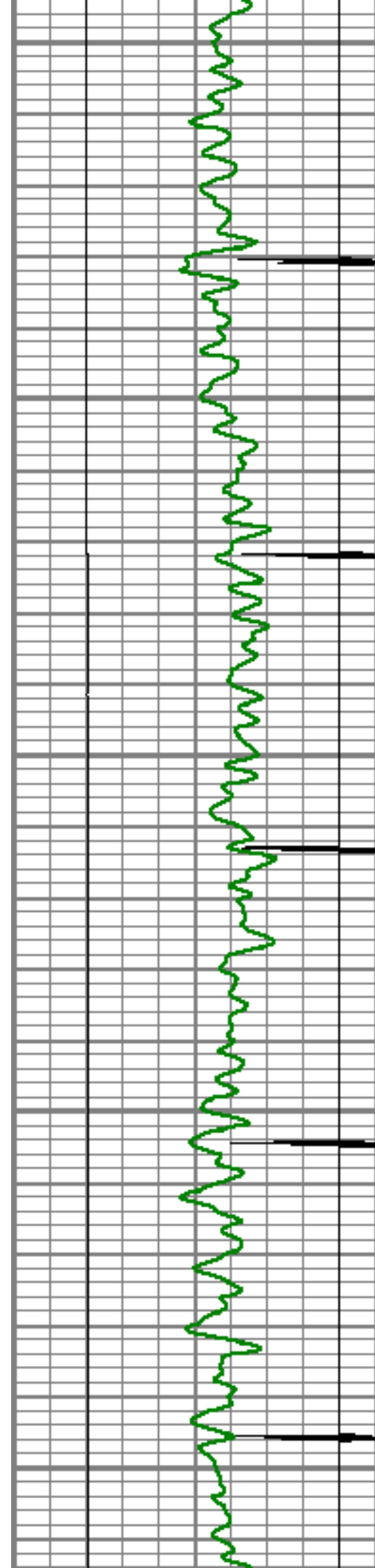
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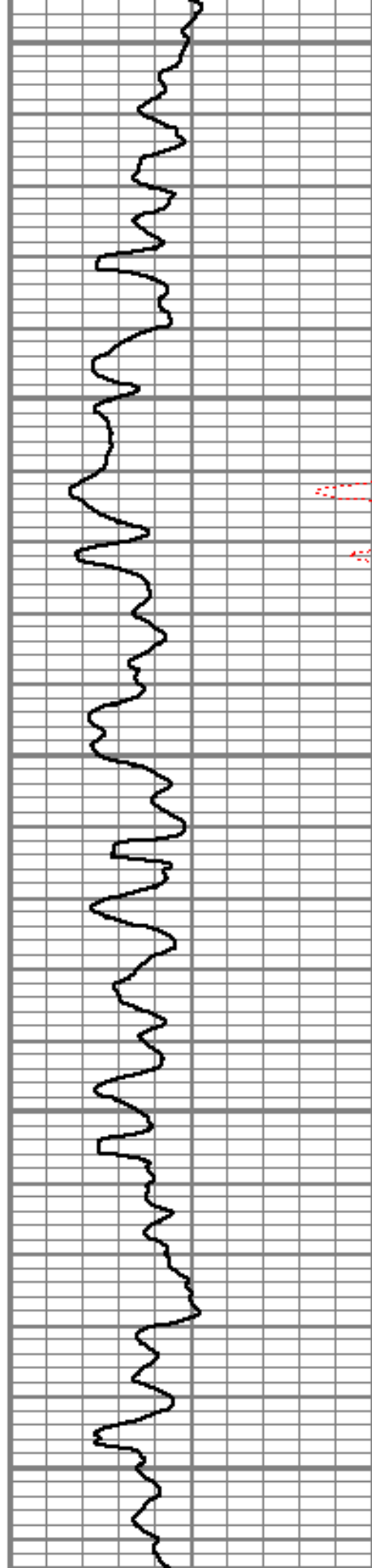
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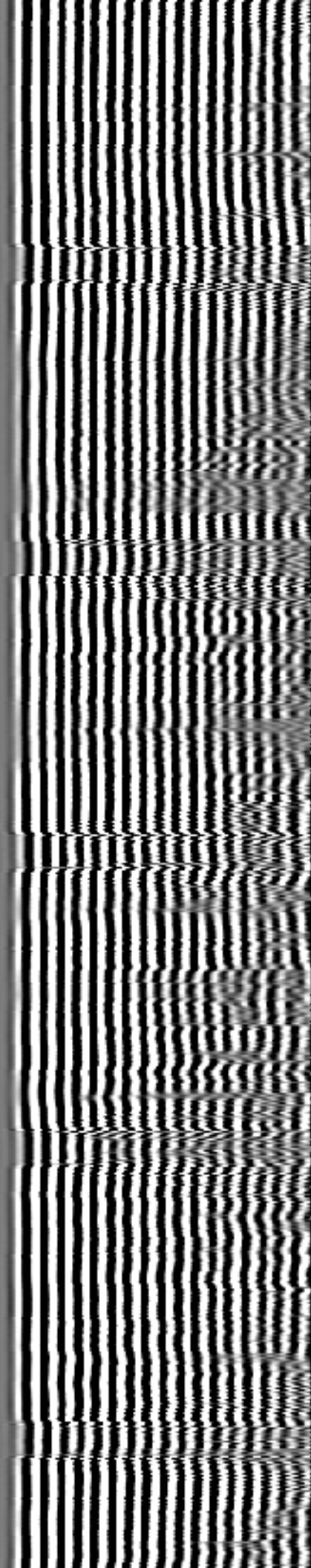
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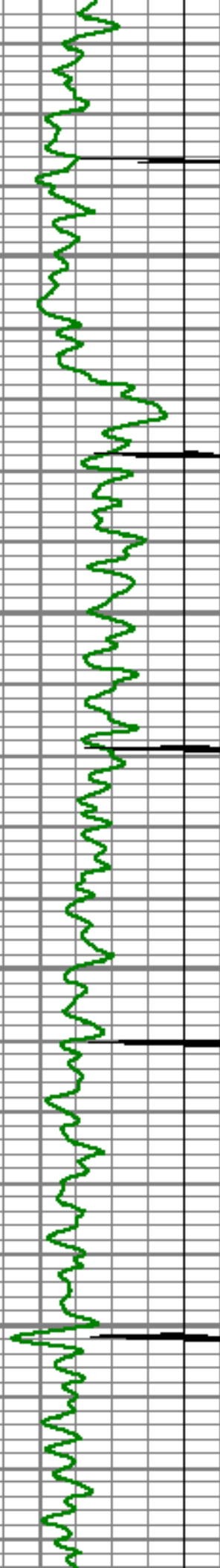
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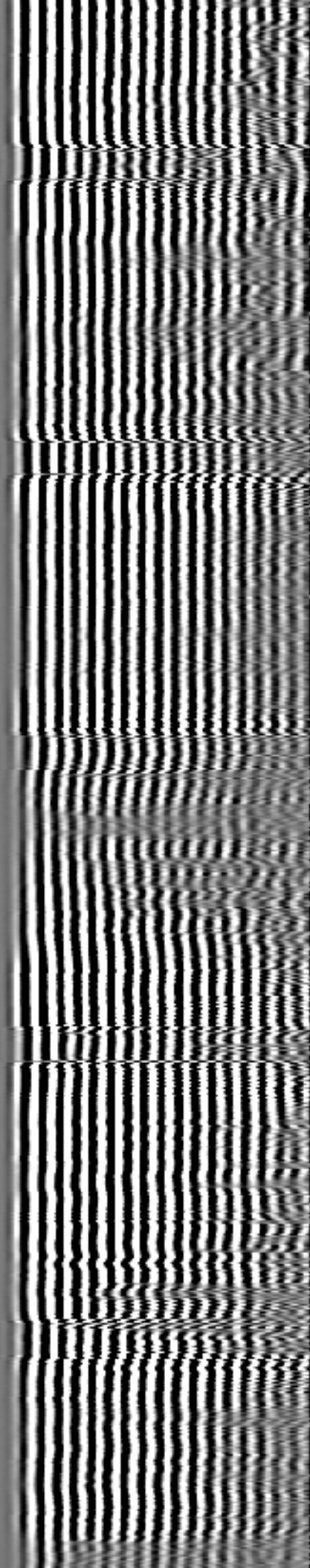
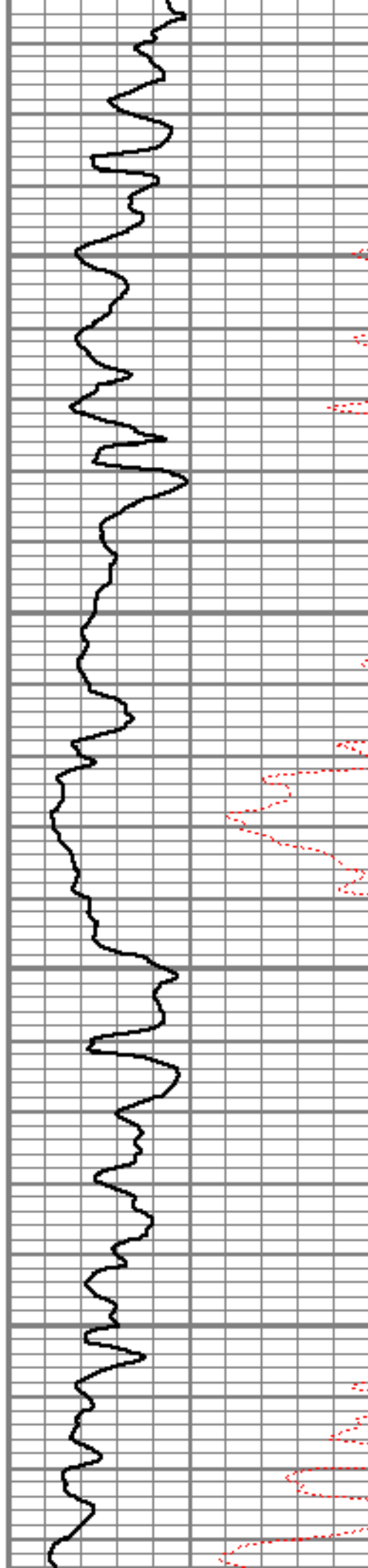


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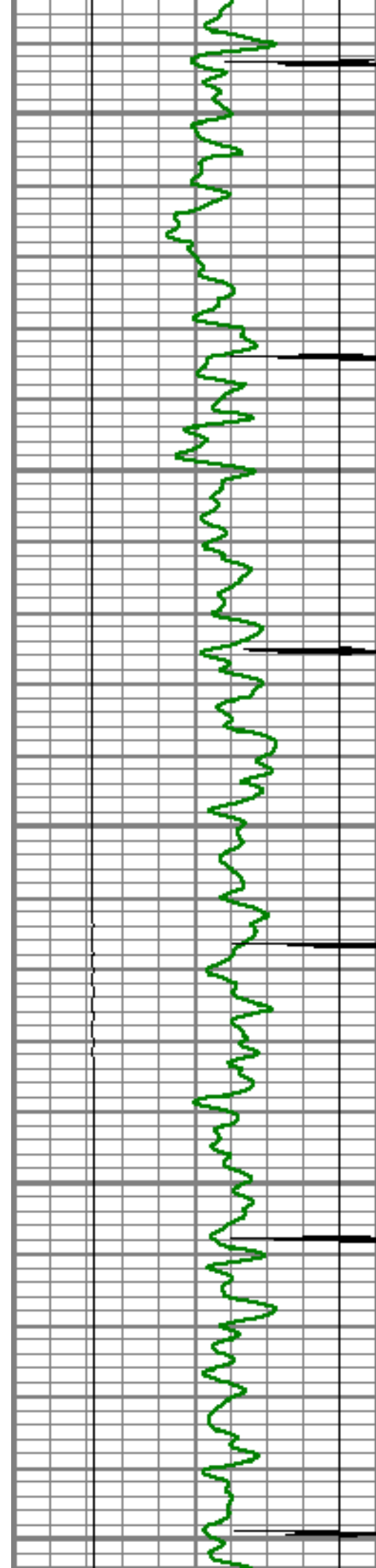
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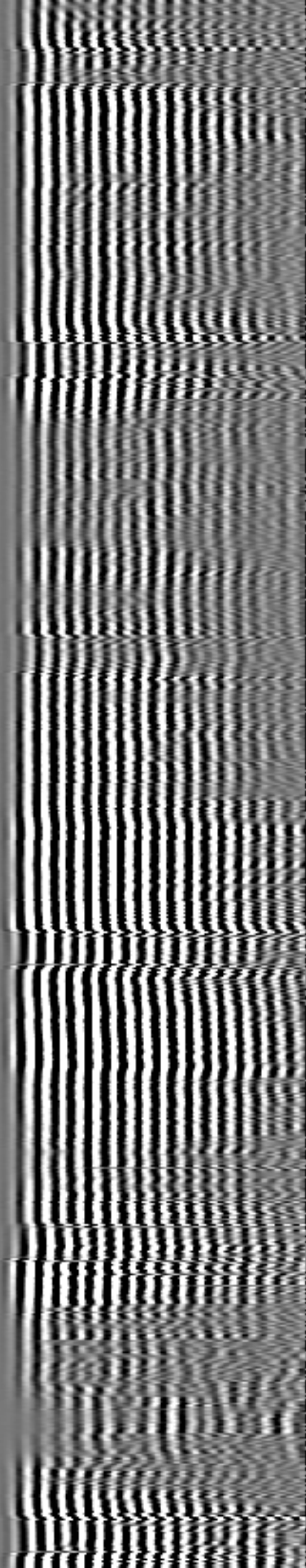
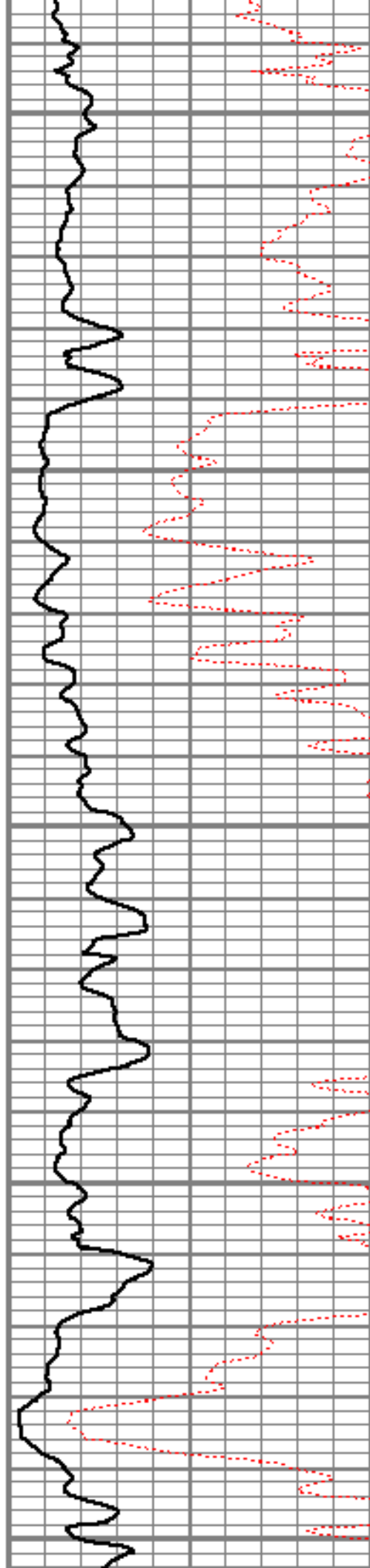
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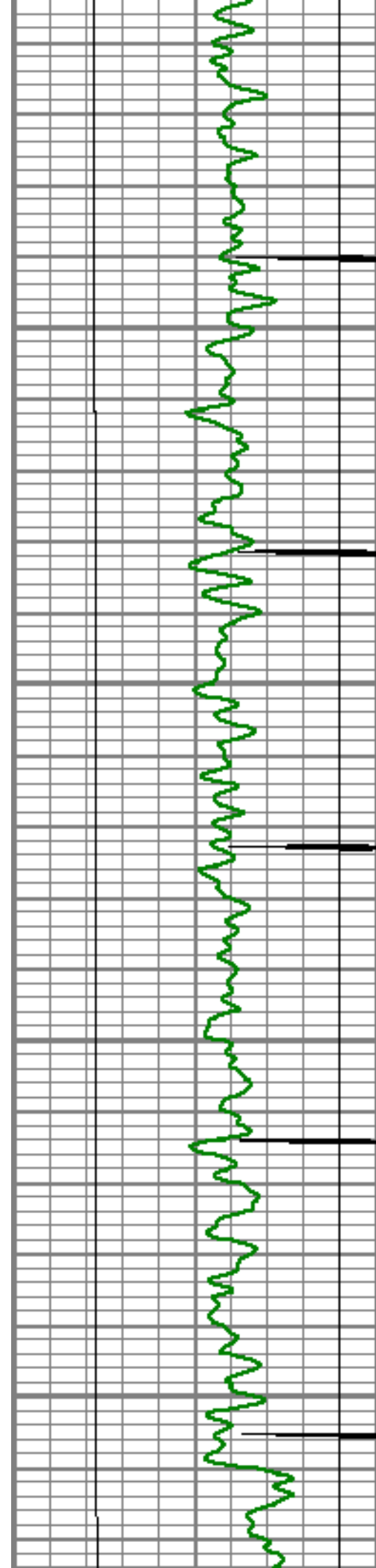
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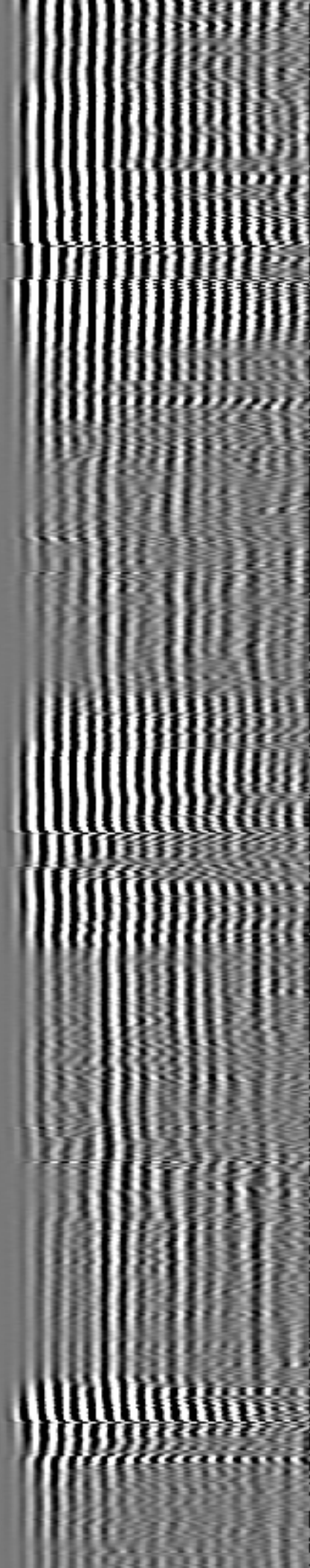
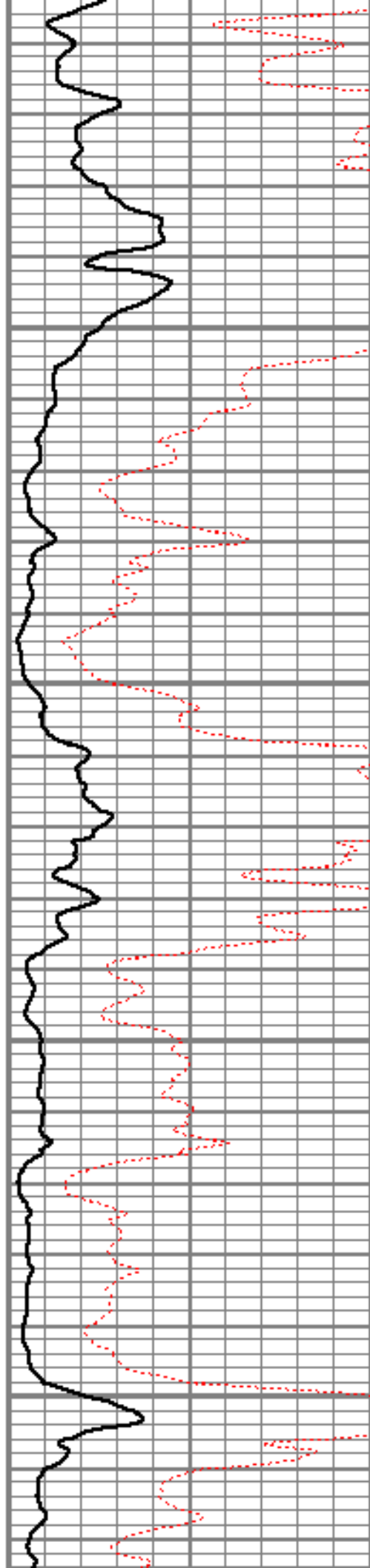


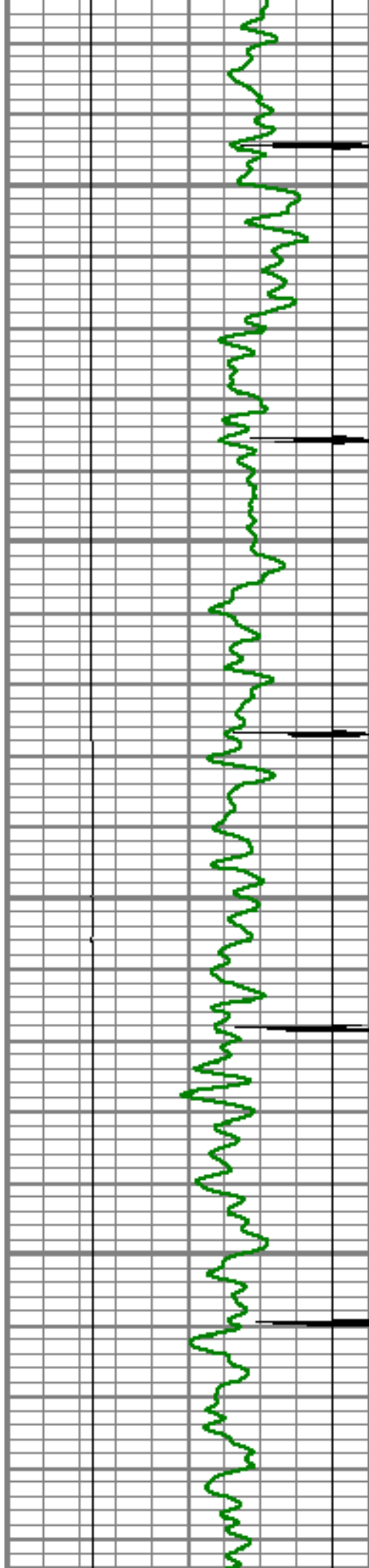
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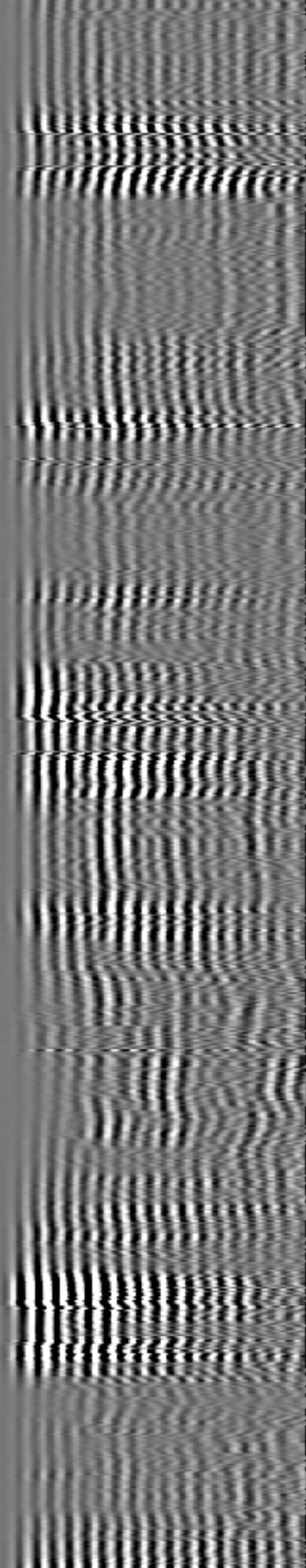
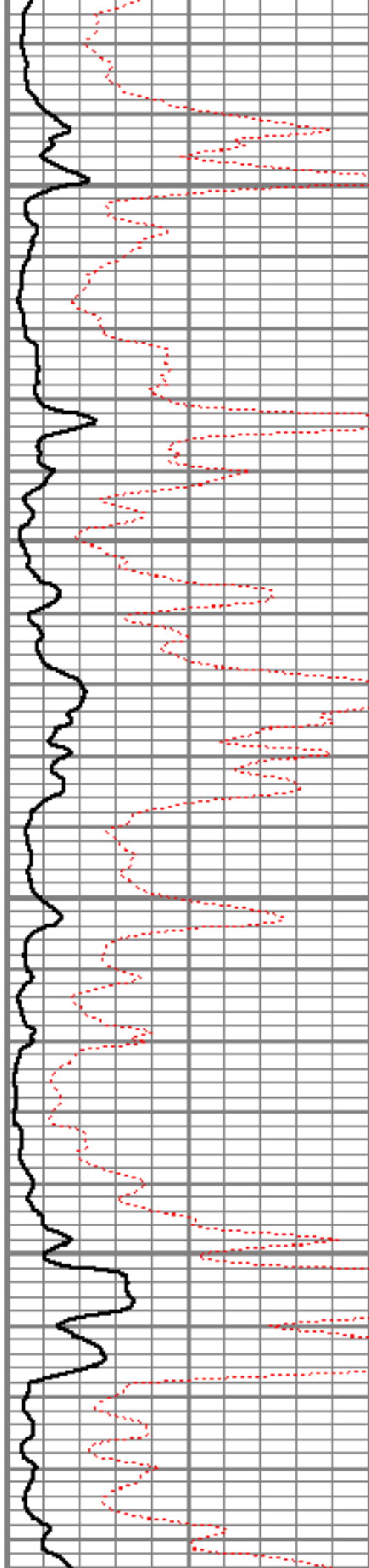


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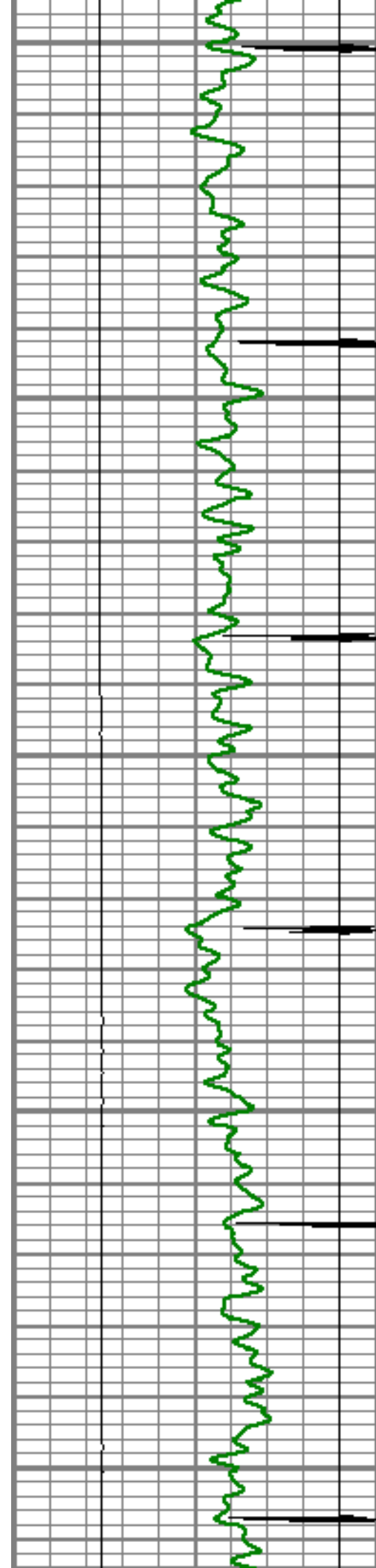
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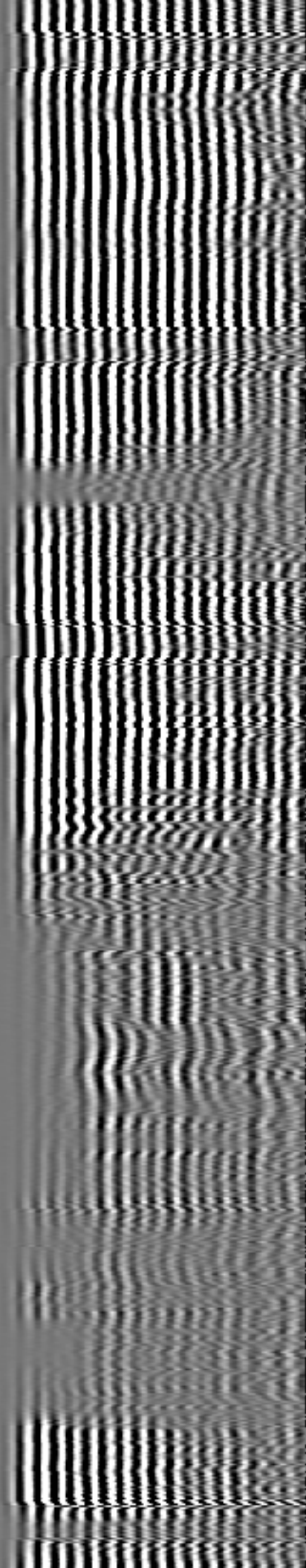
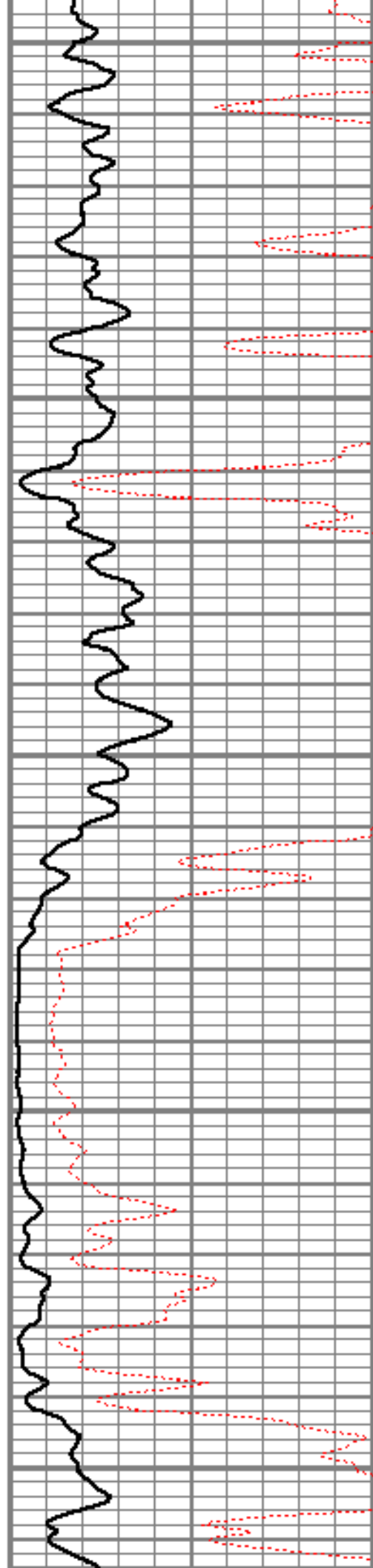
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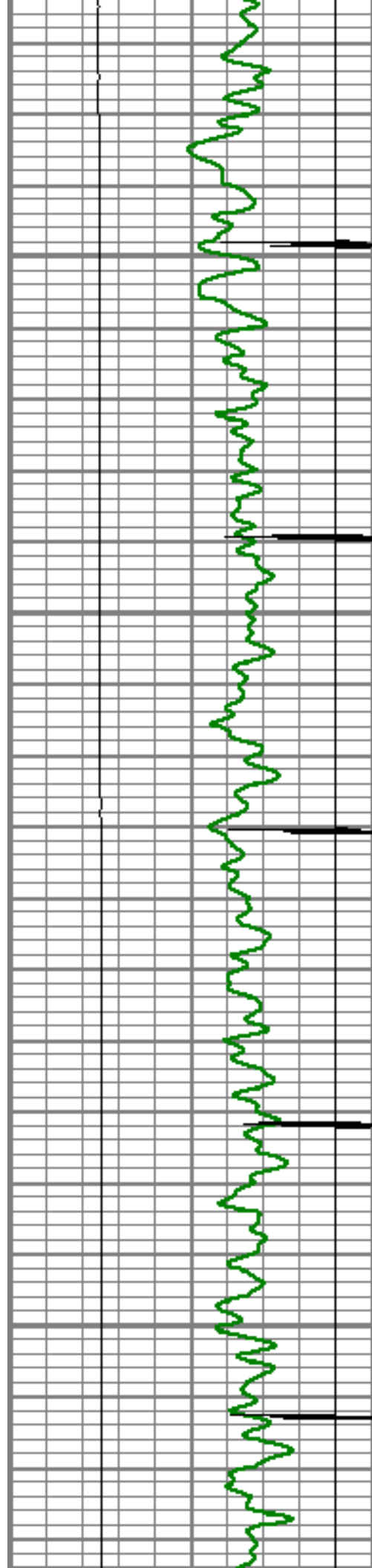
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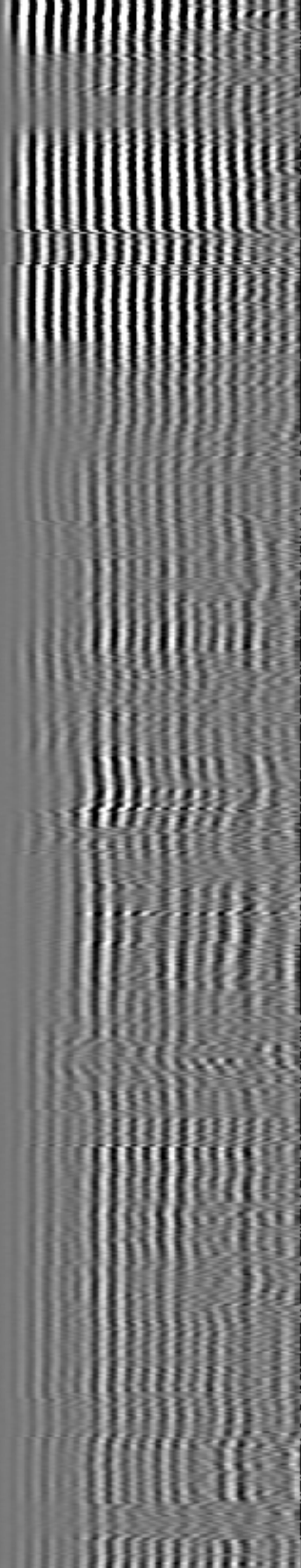
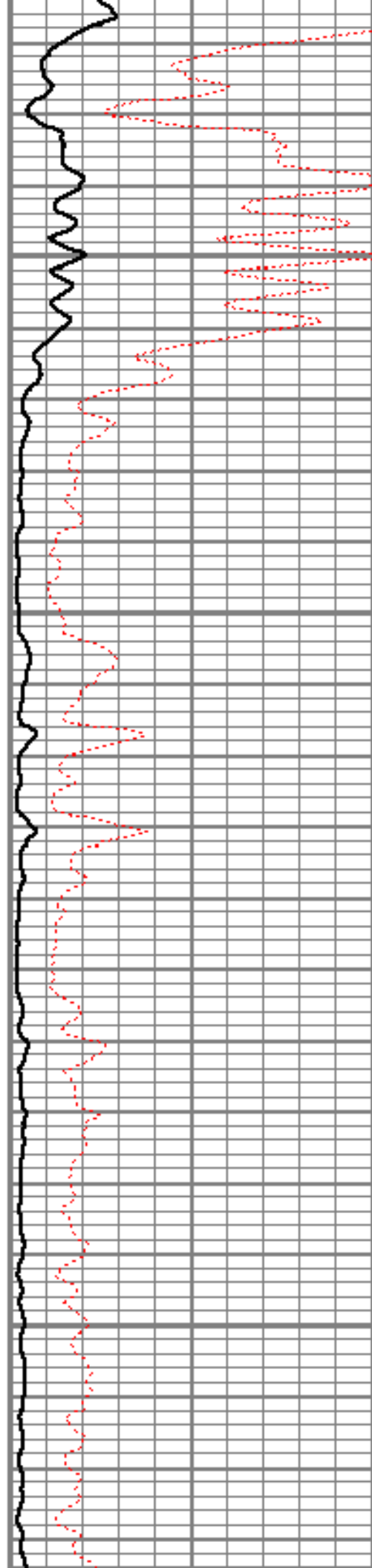


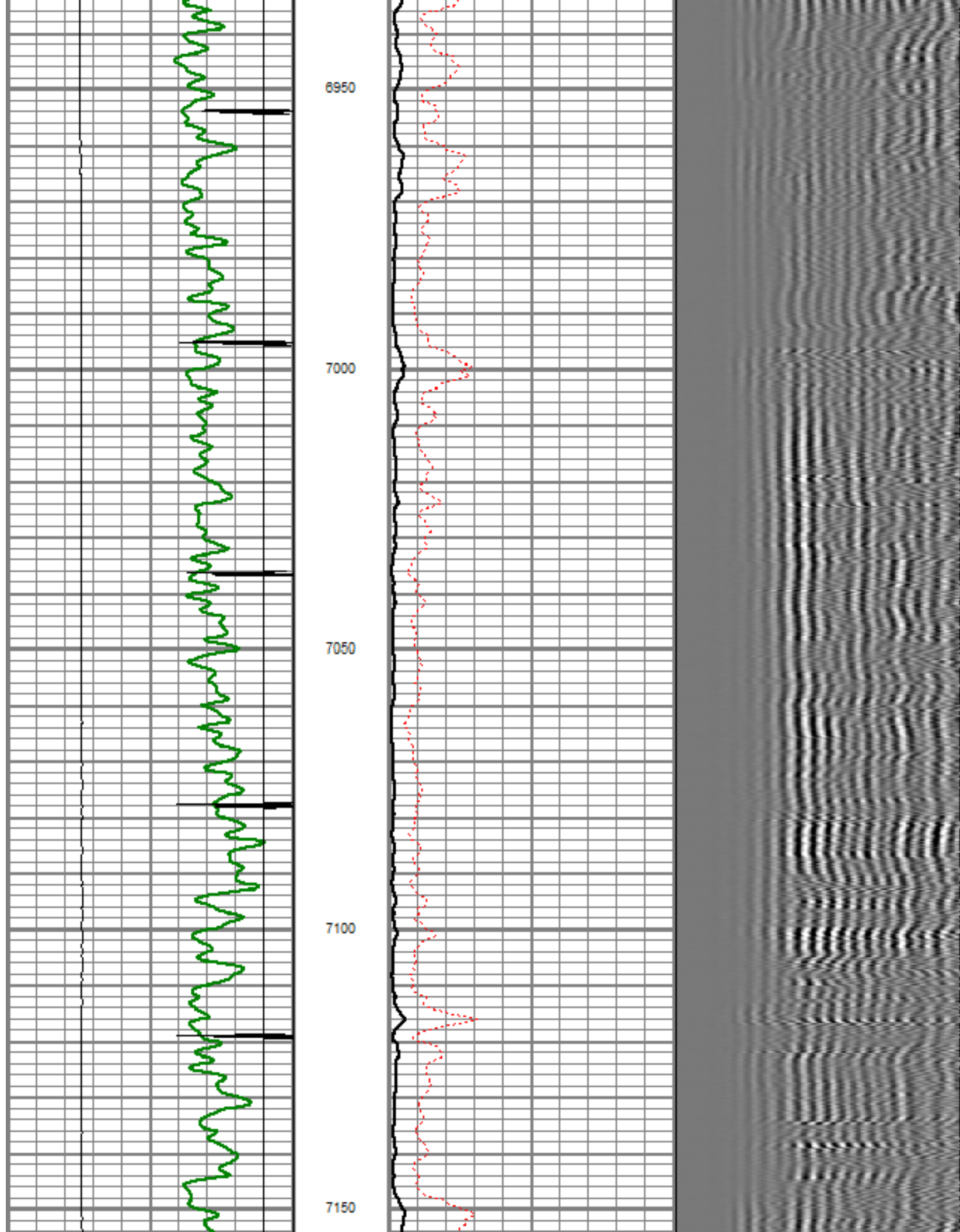
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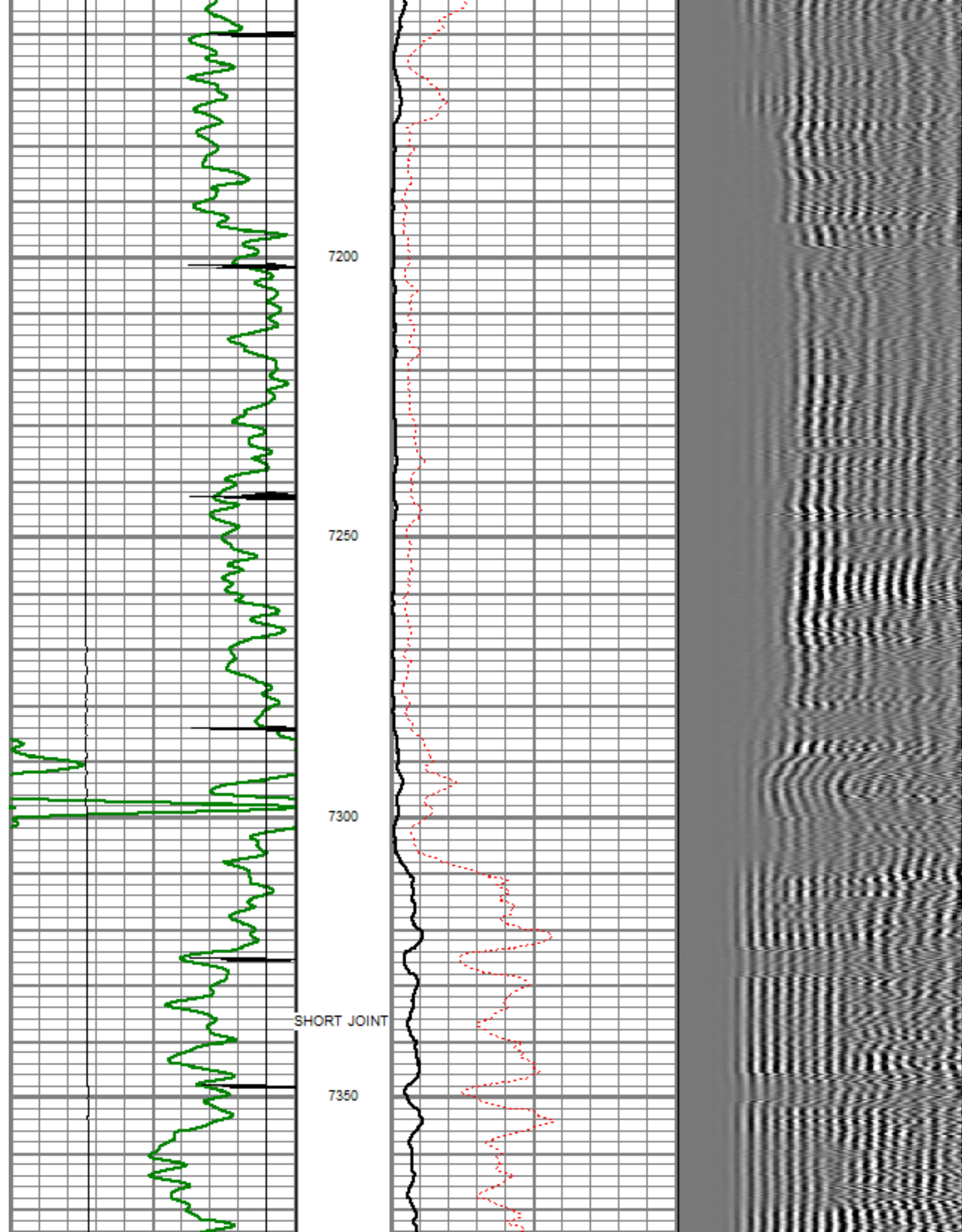
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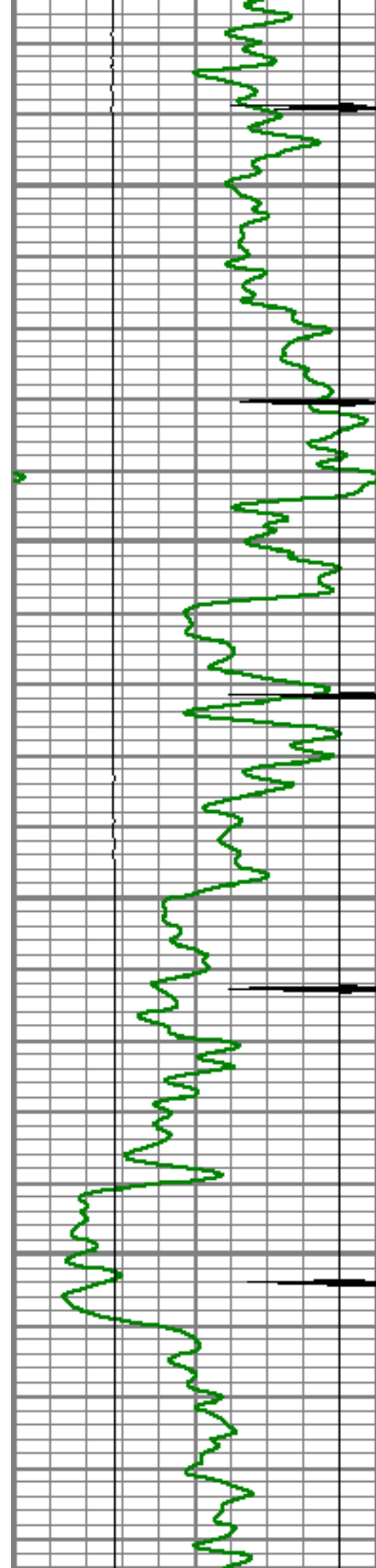
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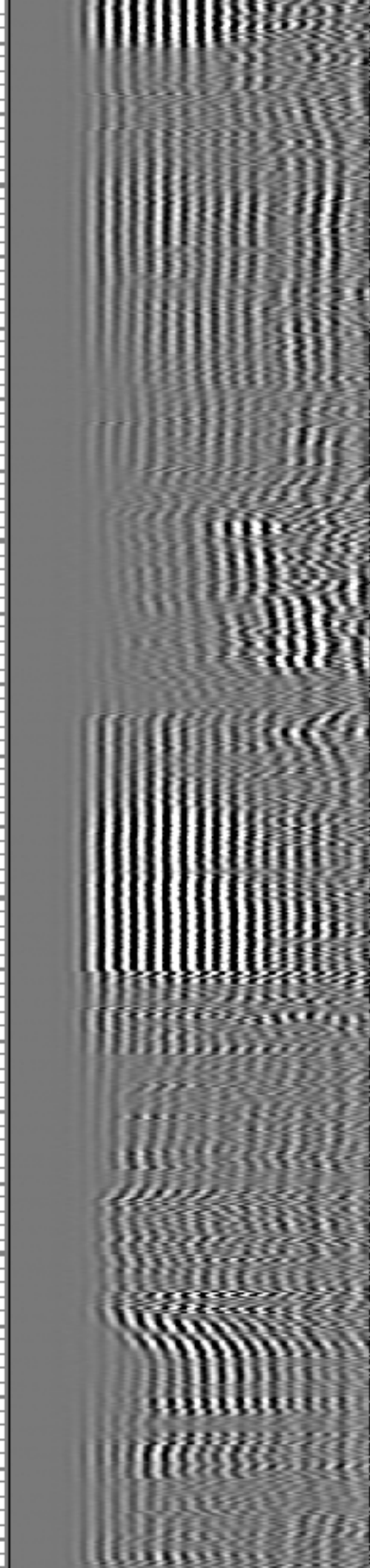
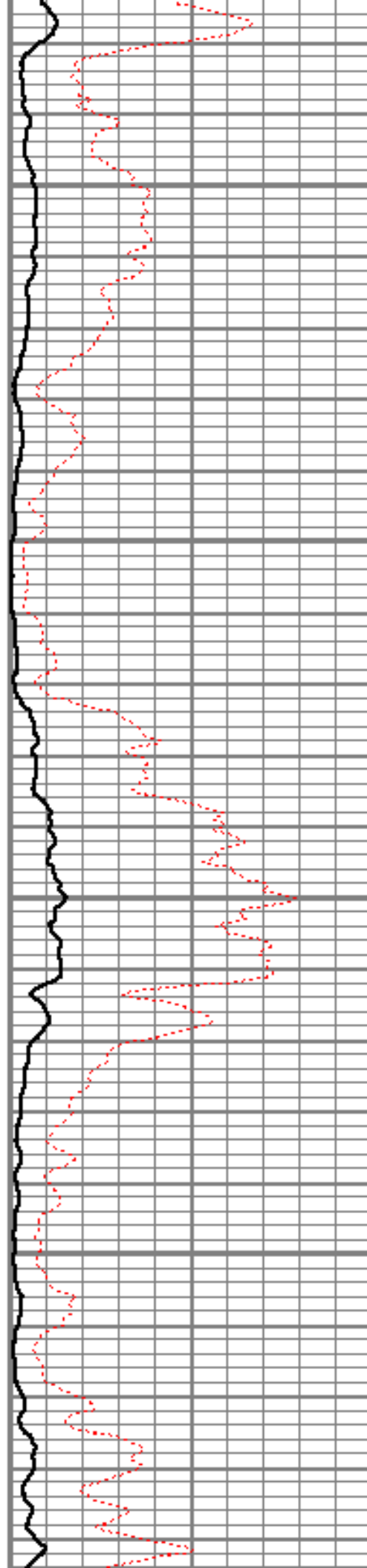


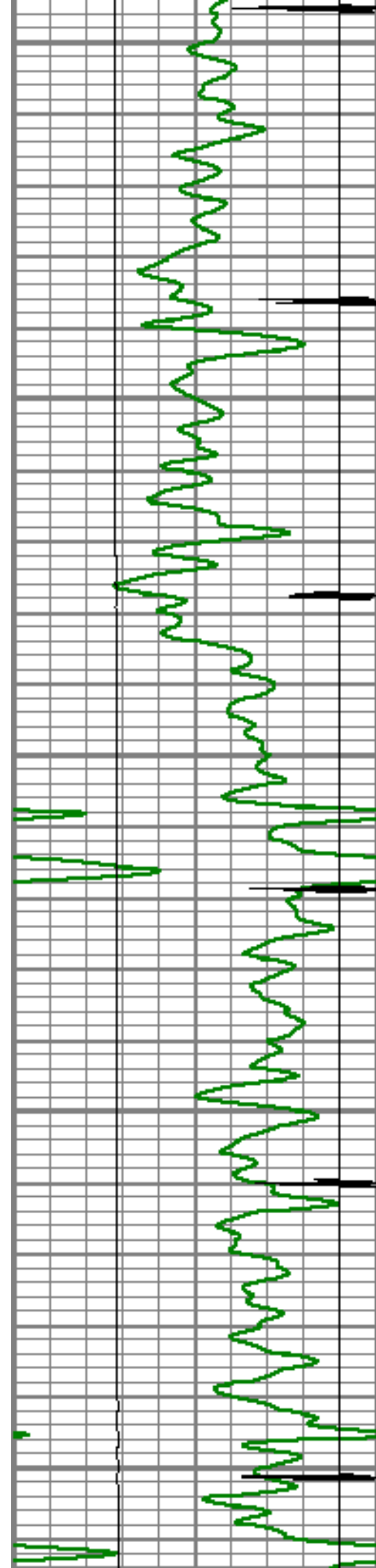
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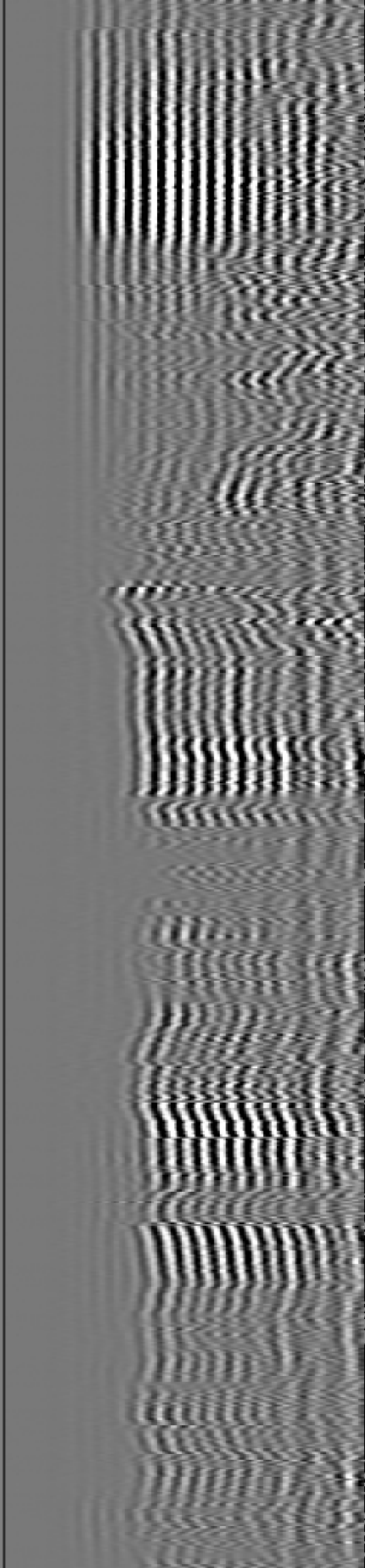
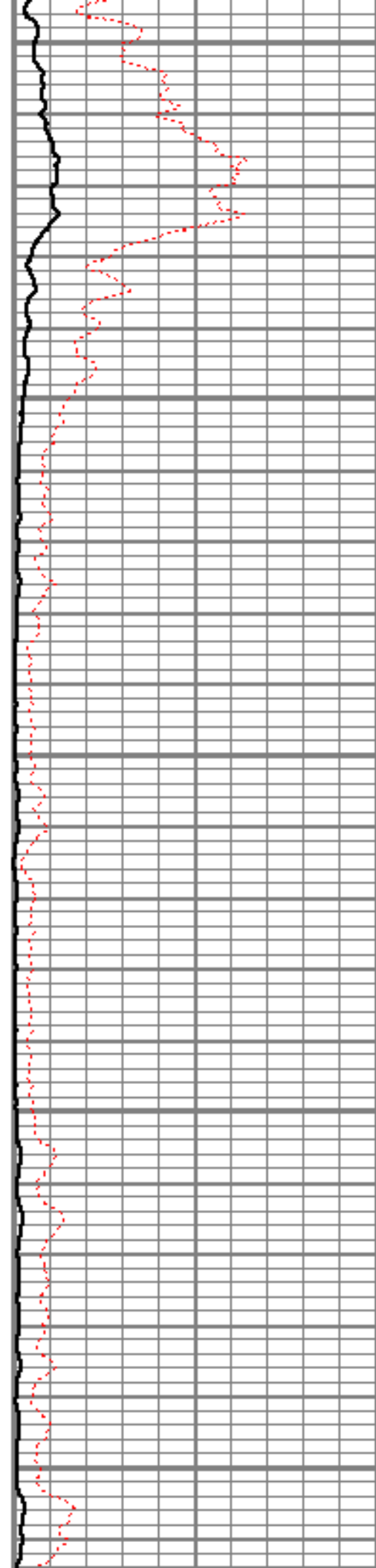
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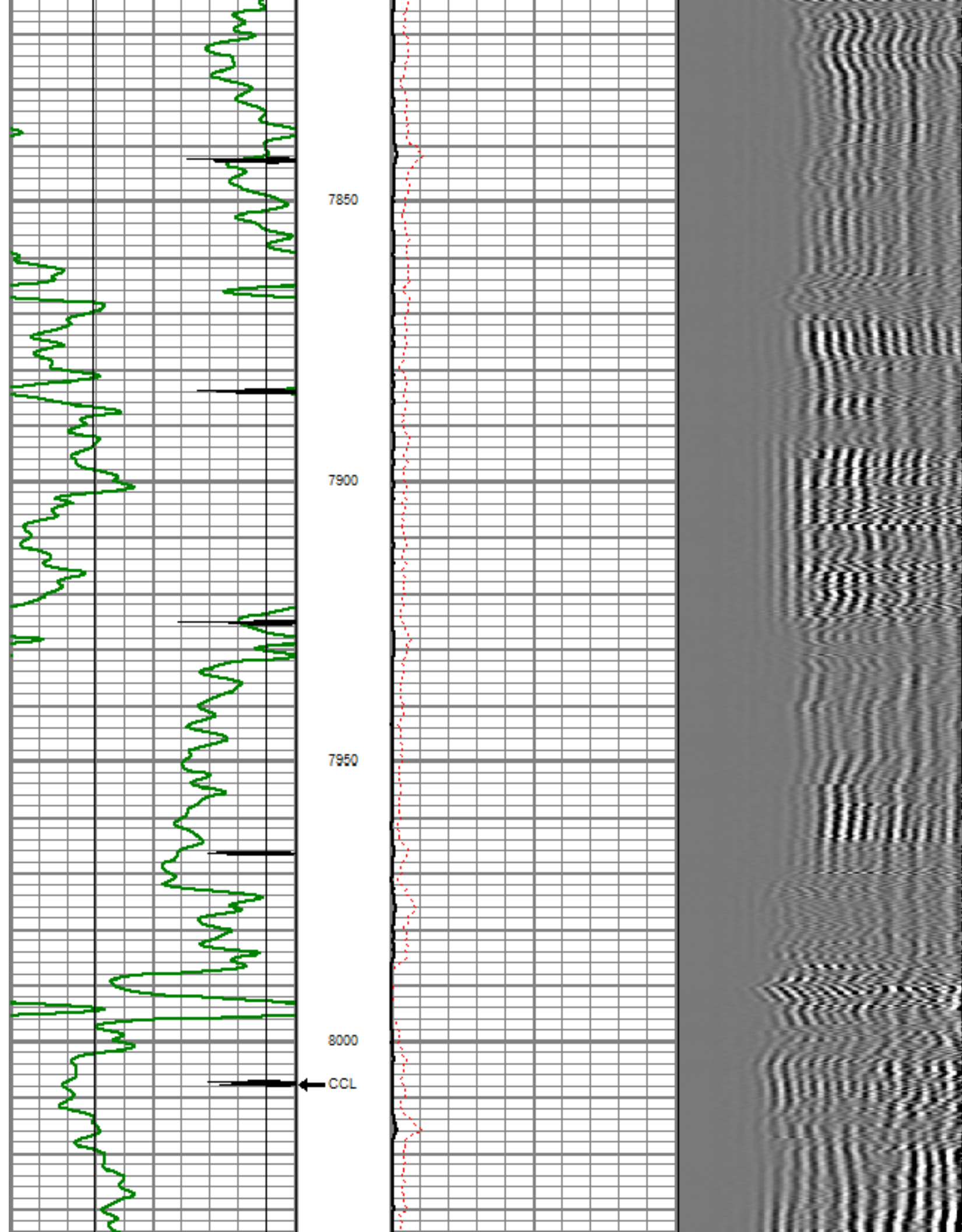
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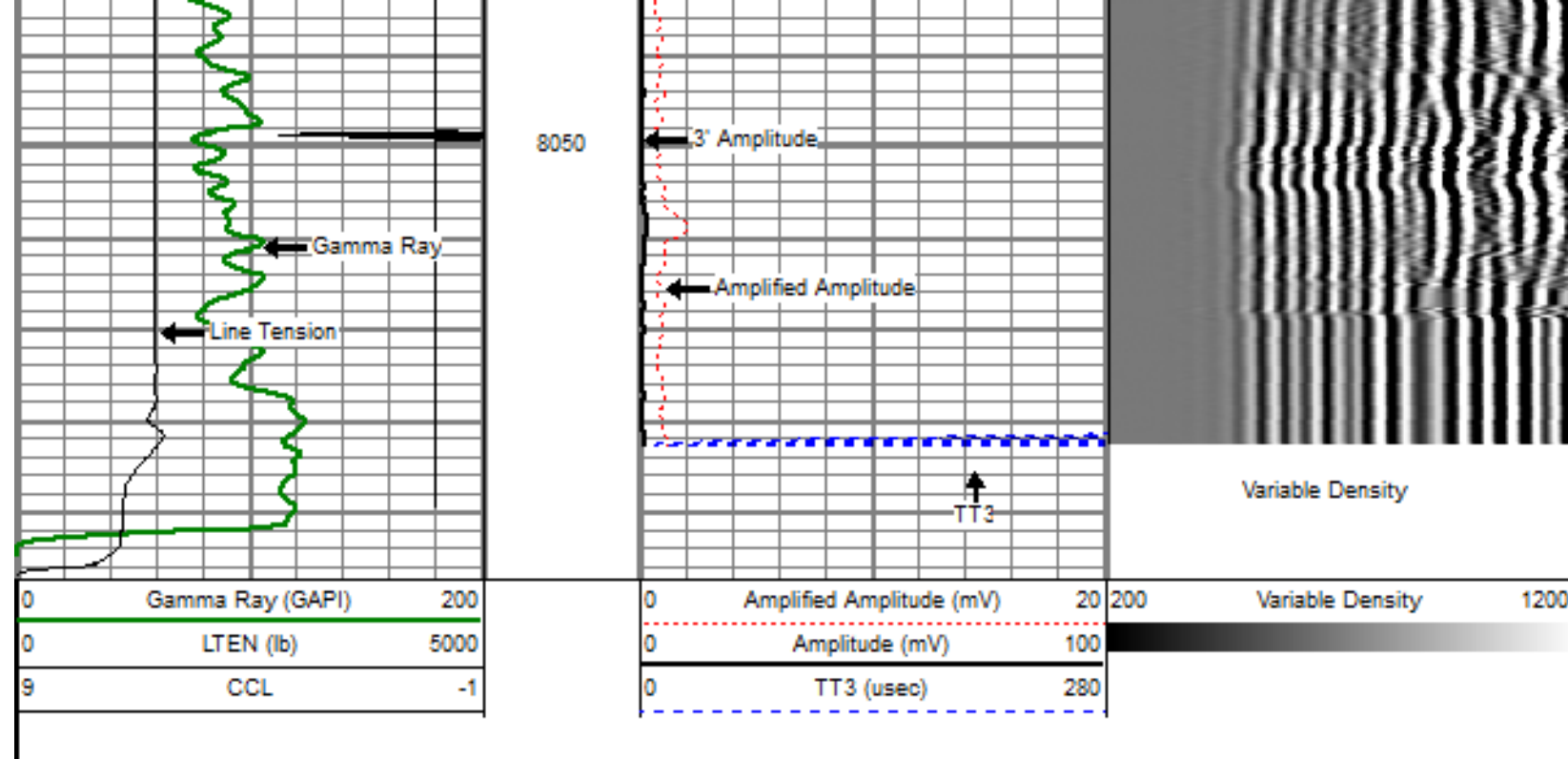
7750


7800










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	14.54		CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.77 ft) Probe 2.75" Dual Receiver Bond	28.77	2.75	60.00
WVF5	13.54					
			Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer	2.88	2.75	10.00

CCL	6.50		GR-PROBE_GRCCL (PRB_GRCCL_275_01) 4.54 Probe 2.75" 4 Channel Pulse	2.75	30.00
GR	3.77				
TEMP	0.17		TEMP-Comprobe (TEMP_CMPRB_1375_01) 2.88 Positive pulse Temp tool	1.38	15.00
Dataset: file 32-17.db: field/well/run1/pass4 Total Length: 22.98 ft Total Weight: 126.50 lb O.D.: 2.75 in					

	Company	ENCANA OIL & GAS (USA) INC
	Well	FILE 32-17
	Field	WATTENBERG
	County	WELD
	State	COLORADO