



# CEMENT BOND LOG

Mesa Wireline

Company ENCANA OIL & GAS (USA) INC  
Well ARISTOCRAT ANGUS 4-0-3  
Field WATTENBERG  
County WELD  
State COLORADO

Company ENCANA OIL & GAS (USA) INC  
Well ARISTOCRAT ANGUS 4-0-3  
Field WATTENBERG  
County WELD State COLORADO

Location: API #: 05-123-33111-0000  
SHL: 875' FNL & 2108' FWL  
BHL: 50' FNL & 2600' FWL  
SEC: 3 TWP: 3N RGE: 6SW  
Permanent Datum GROUND LEVEL Elevation 4765'  
Log Measured From KELLY BUSHING = 12'  
Drilling Measured From KELLY BUSHING  
Other Services  
NONE  
Elevation  
K.B. 4777'  
D.F. 4776'  
G.L. 4765'

Date 7 DECEMBER 2011

Run Number	ONE
Depth Driller	7790'
Depth Logger	7728'
Bottom Logged Interval	7728'
Top Log Interval	3000'
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	~8.3#
Max. Recorded Temp.	273 DEG F
Estimated Cement Top	3290'
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	10901 PRD01
Location	AULT, CO
Recorded By	Z. EMICK
Witnessed By	T. MAJORS

Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	0'	UNKNOWN				
TWO	7.875"	0'	7805'				

Casing Record		Size	Wgt/Ft	Top	Bottom
Surface String	8.625"	24#	0'	UNKNOWN	
Prot. String					
Production String	4.5"	11.6#	0'	7790'	
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 PSI HIGH RESOLUTION INDUCTION LOG DATED 26 NOVEMBER 2011  
SHORT JOINT 6830' - 6853'

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



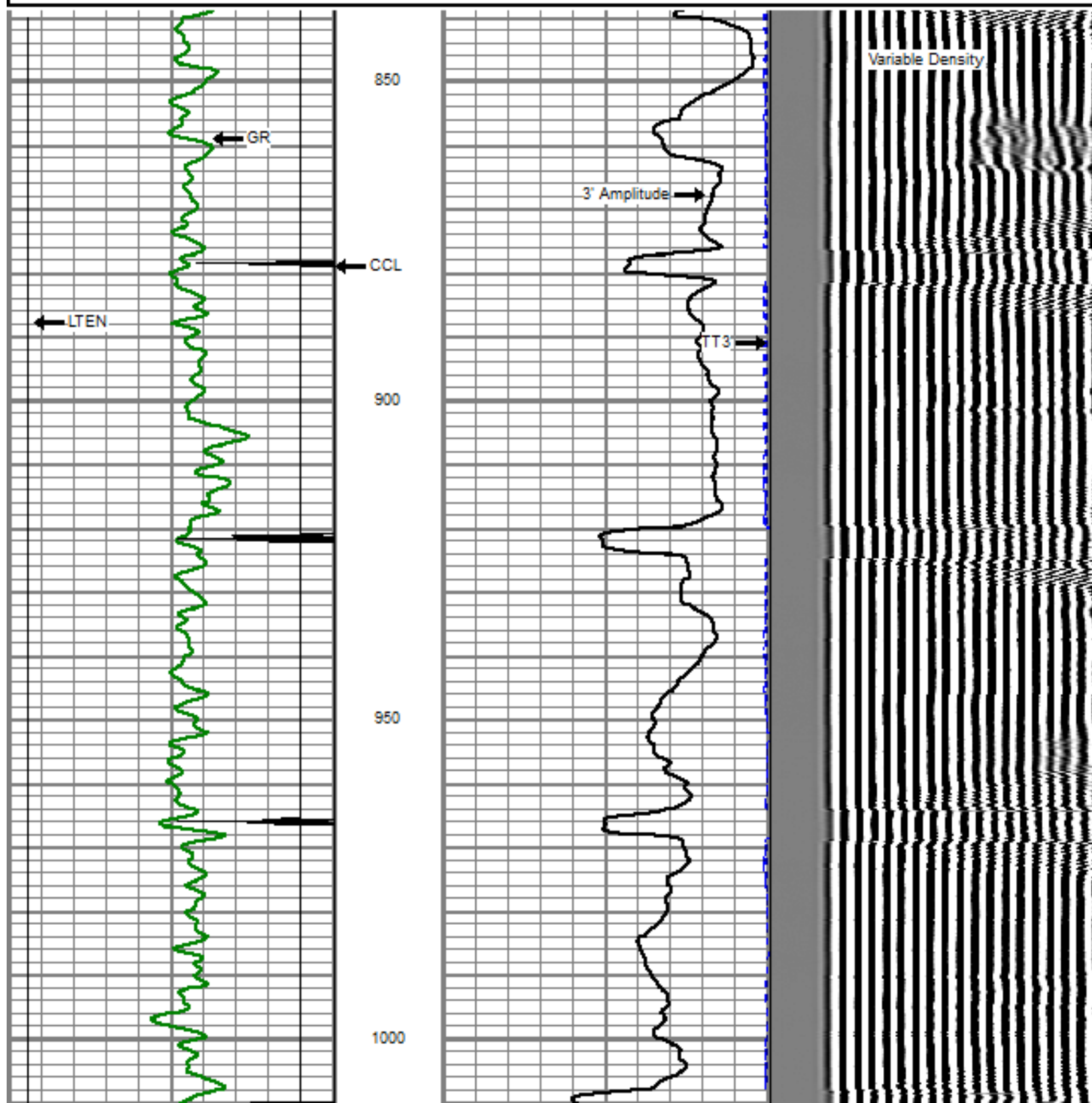
TOP PASS

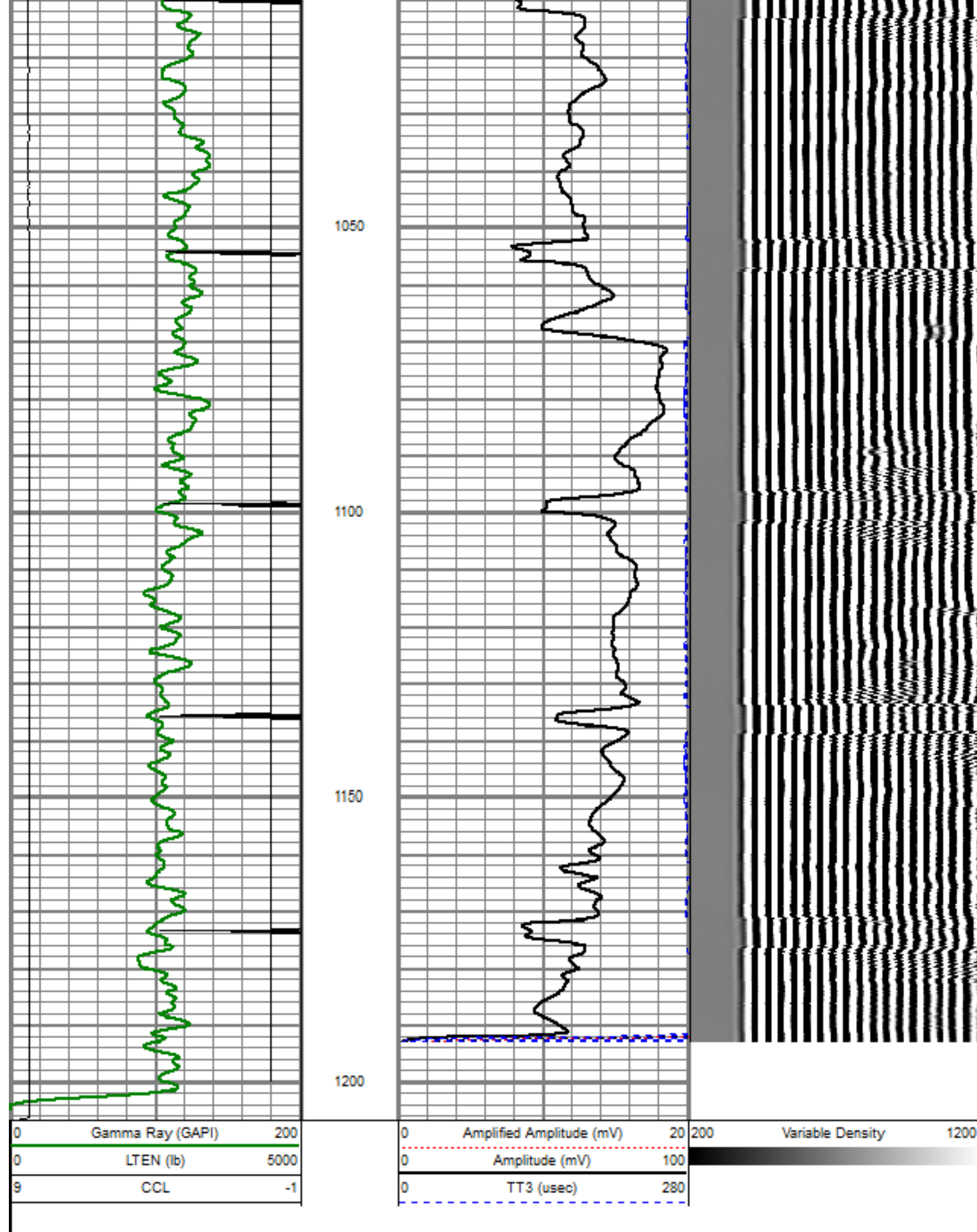
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Presentation Format: dobl\_prb  
Dataset Creation: Wed Dec 07 10:25:20 2011 by Calc SCH 110722  
Charted by: Depth in Feet scaled 1:240

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







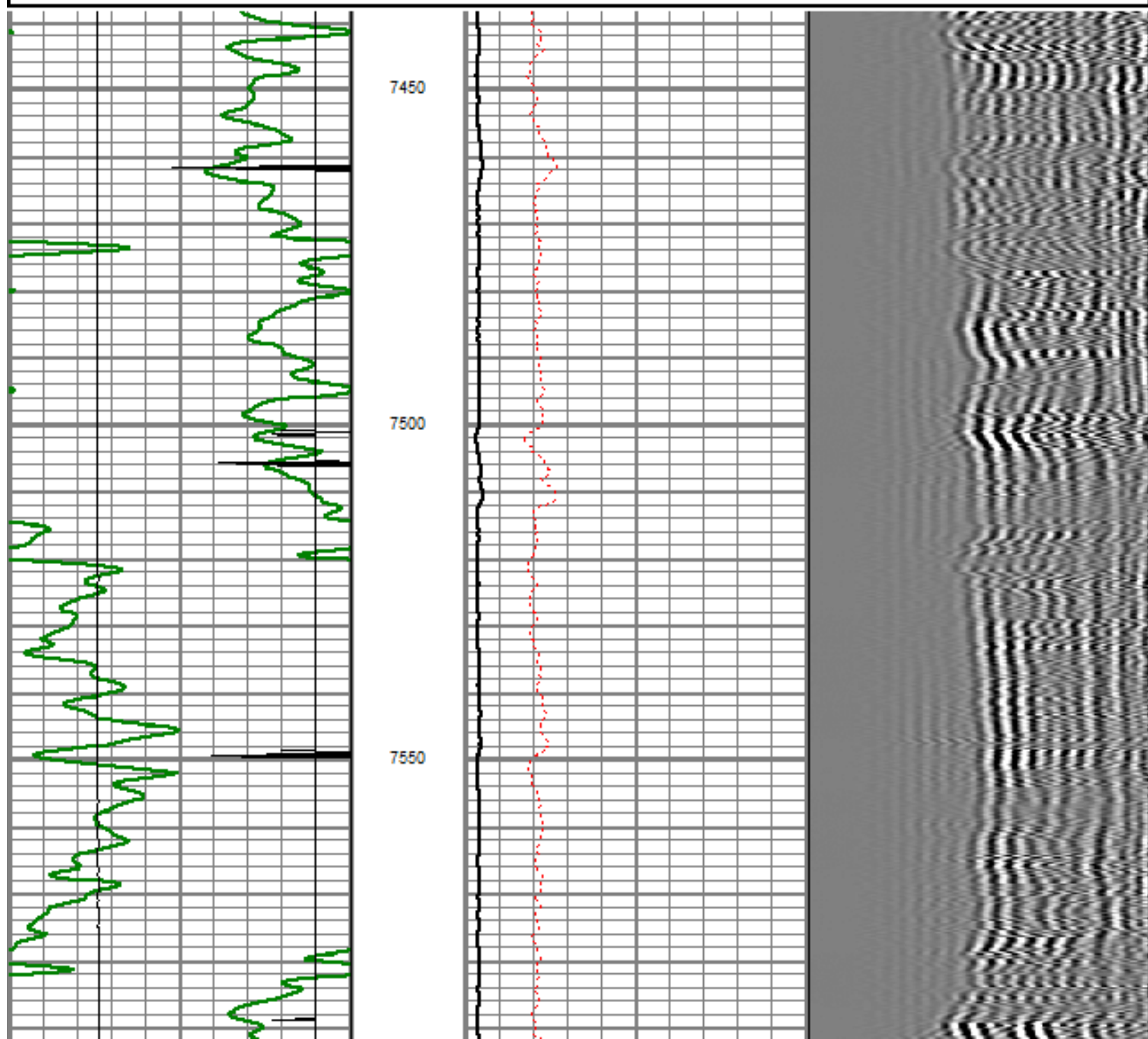
# REPEAT PASS

5" = 100'

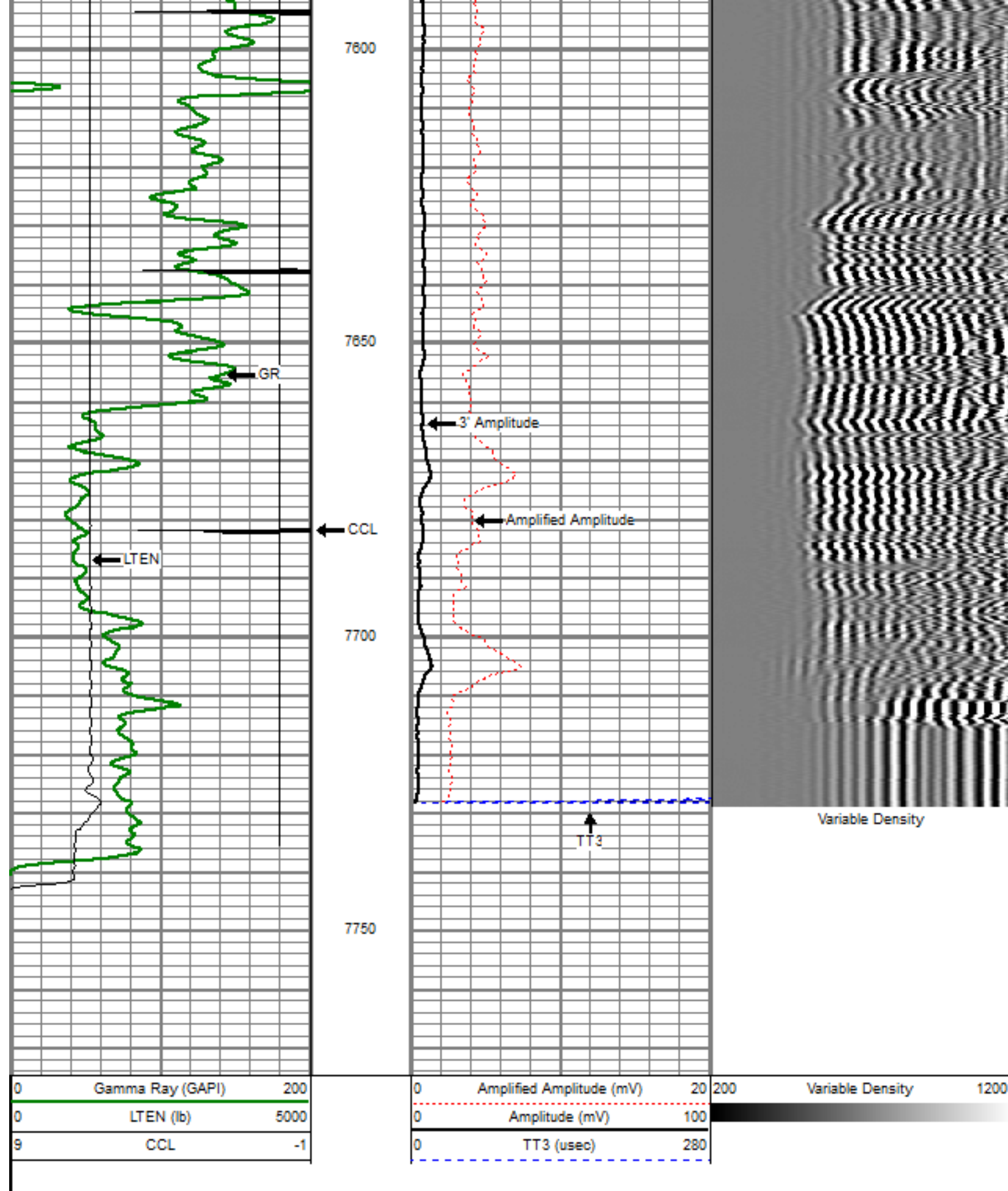
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0	LTEN (lb)	5000
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0	Amplified Amplitude (mV)	20	200	Variable Density	1200
0	Amplitude (mV)	100			
0	TT3 (usec)	280			





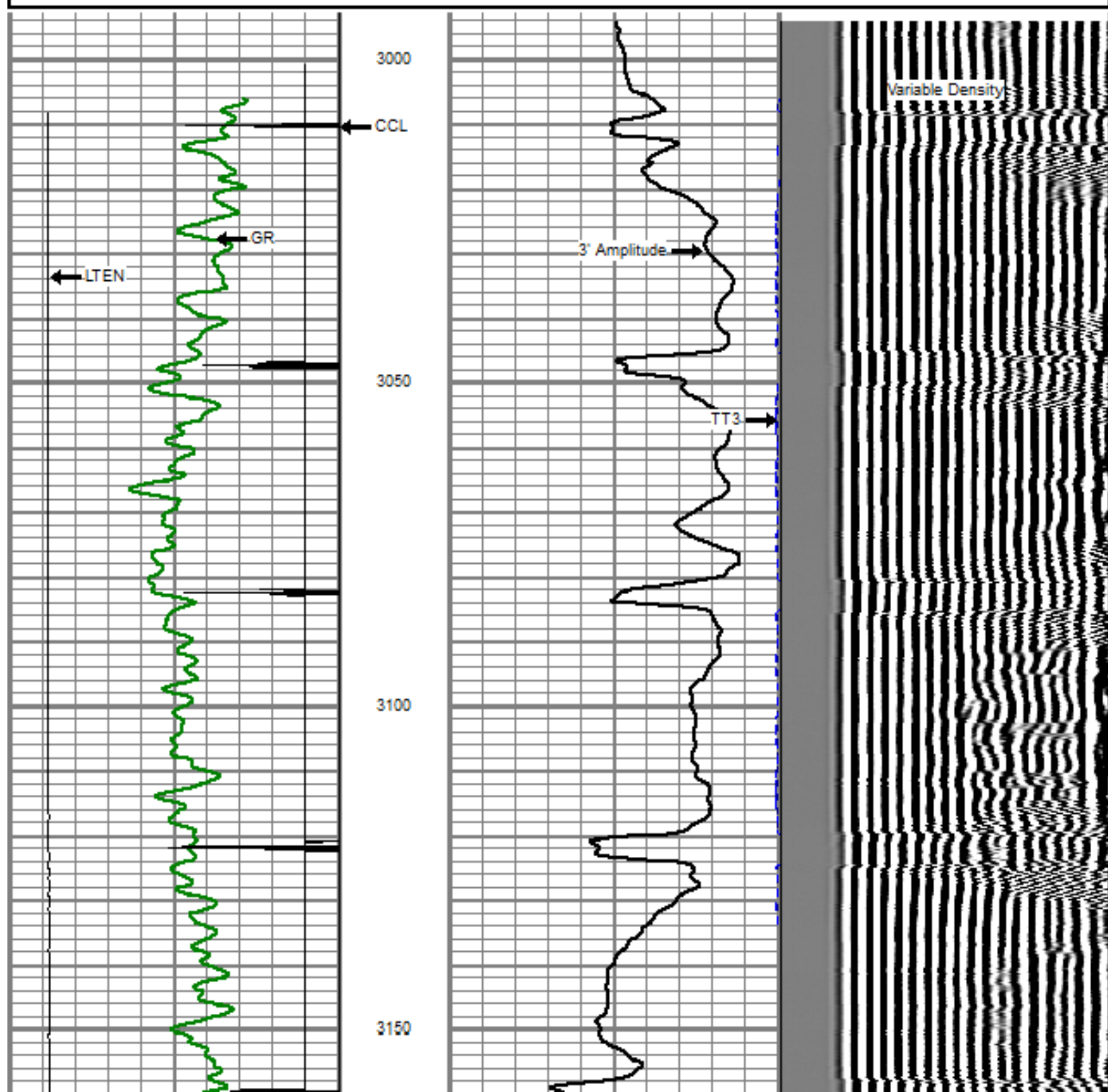


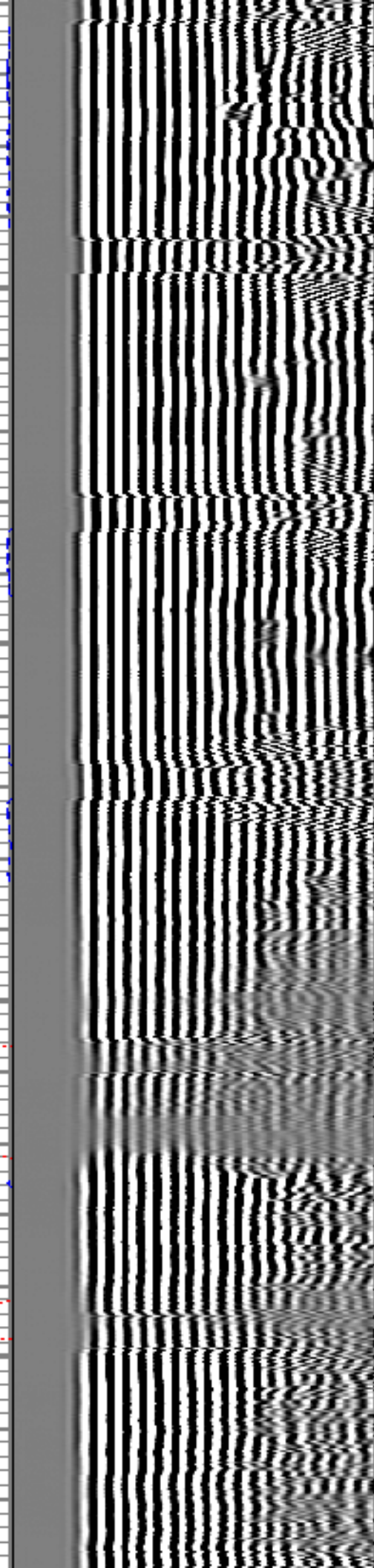
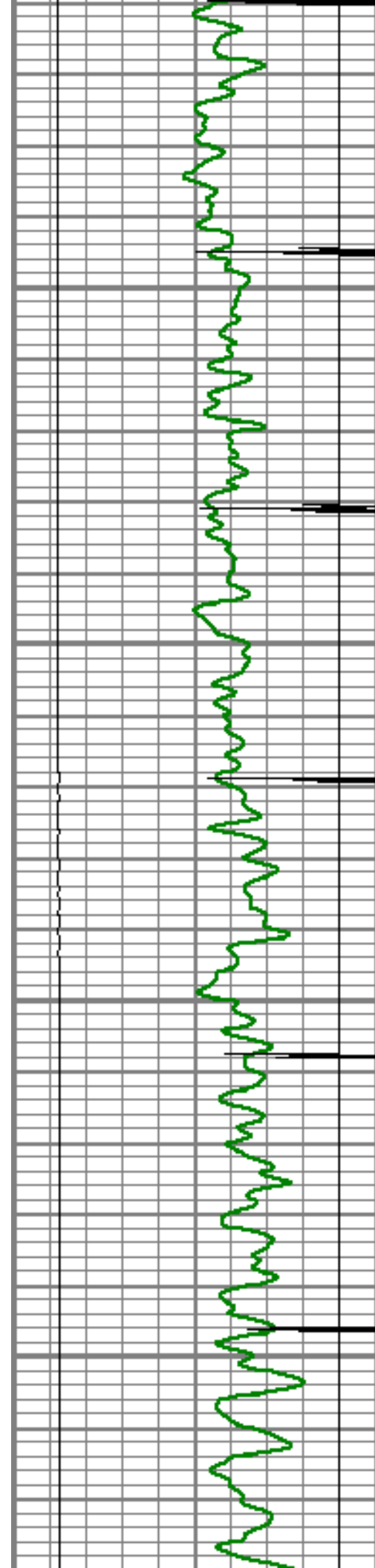
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 Charted by: Depth in Feet scaled 1:240

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





3200

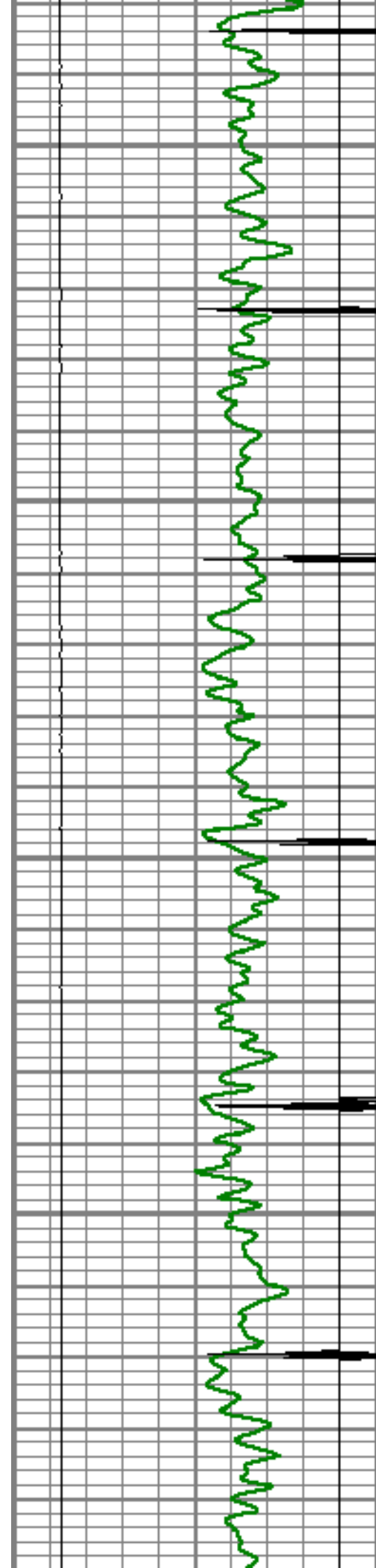
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Top of Cement

3300

3350





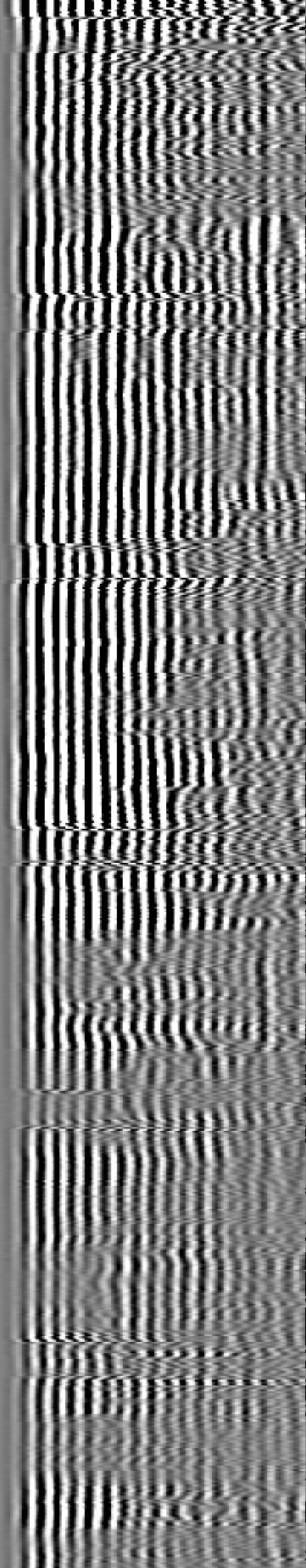
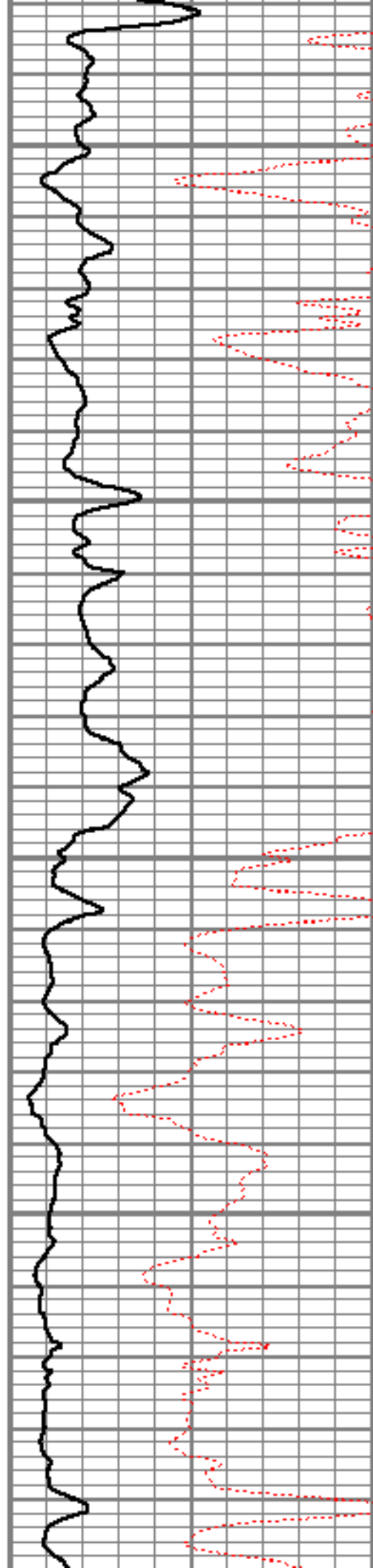
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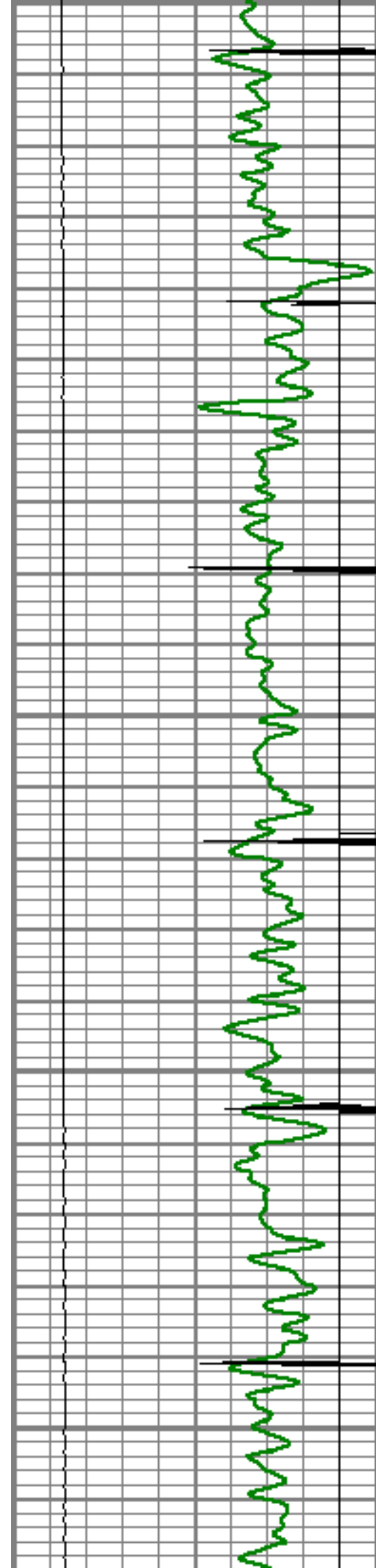
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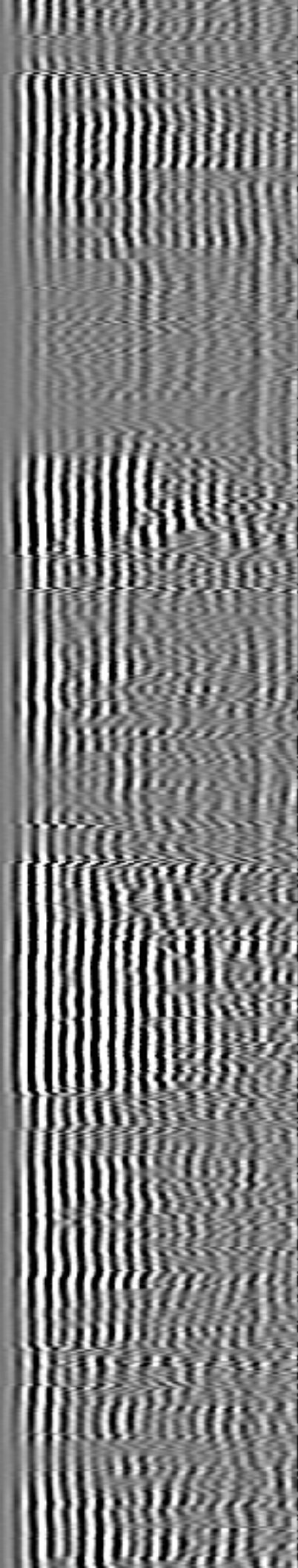
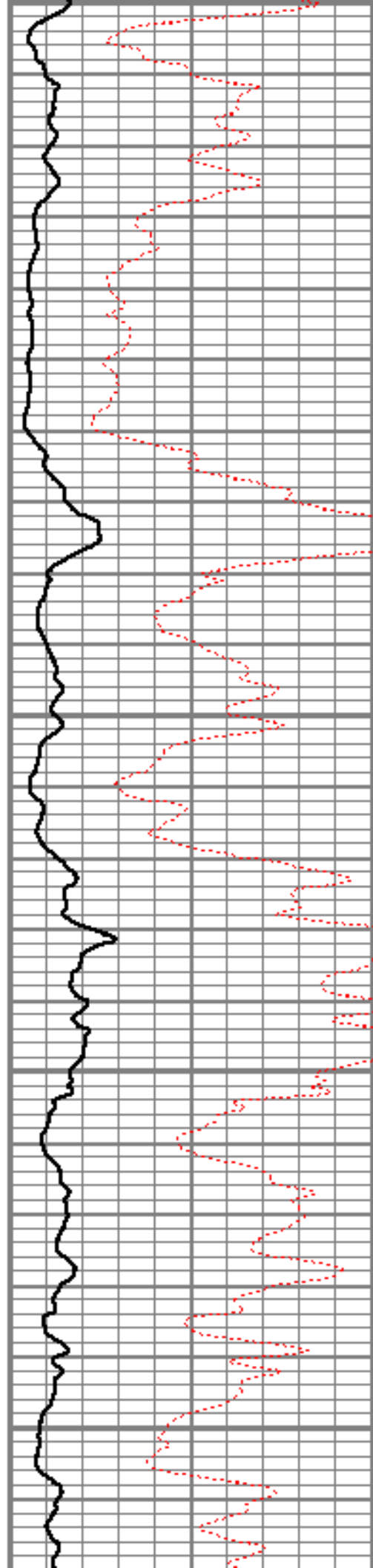
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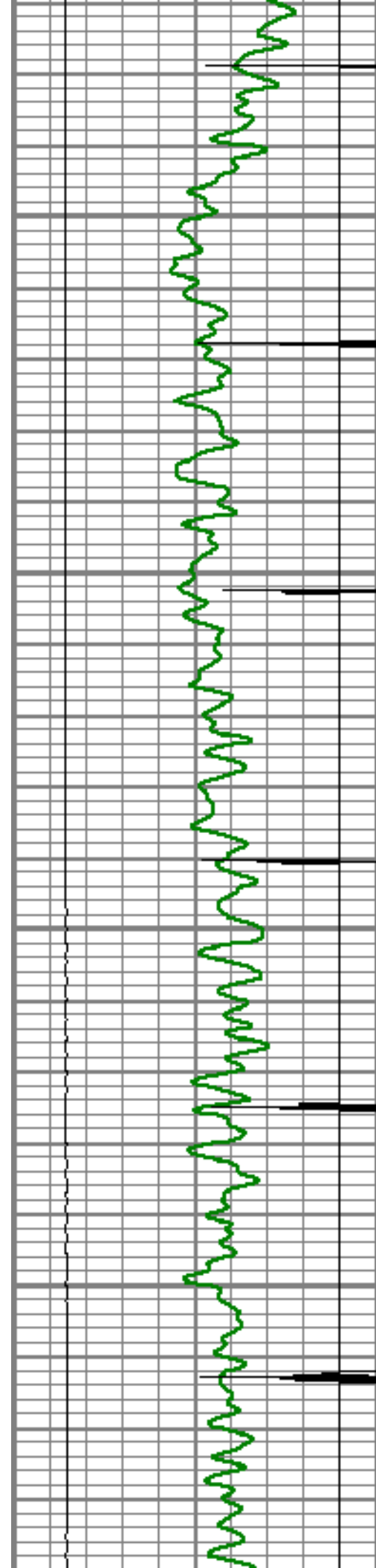
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3800



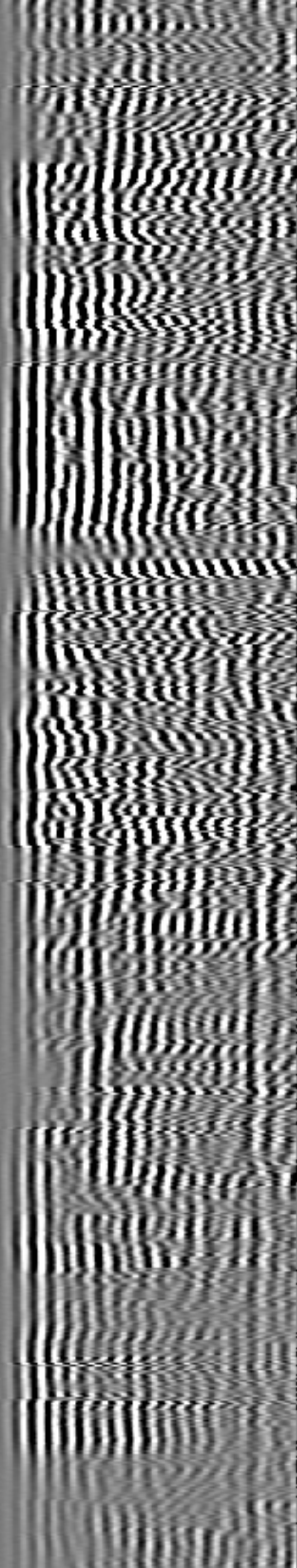
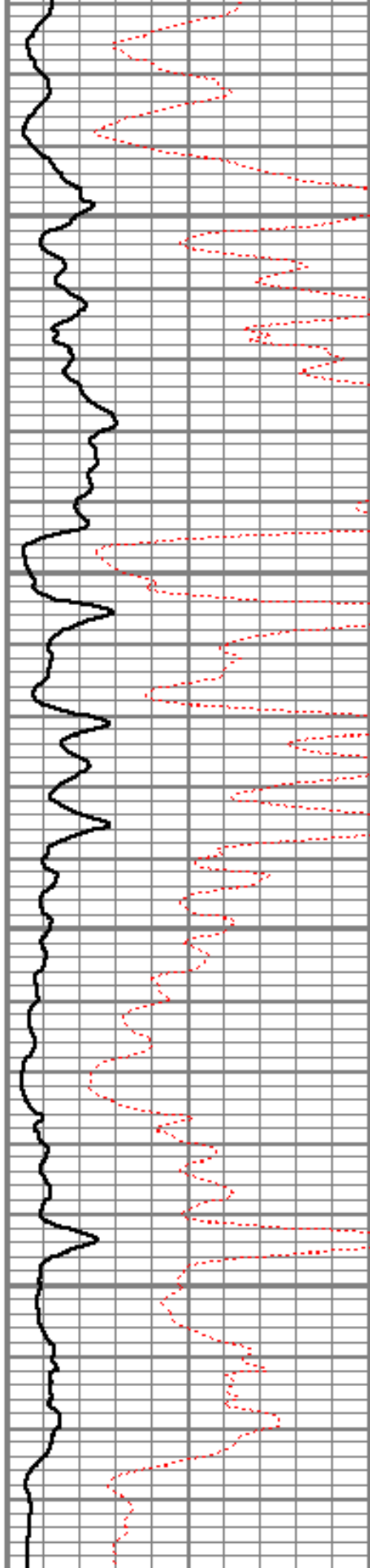


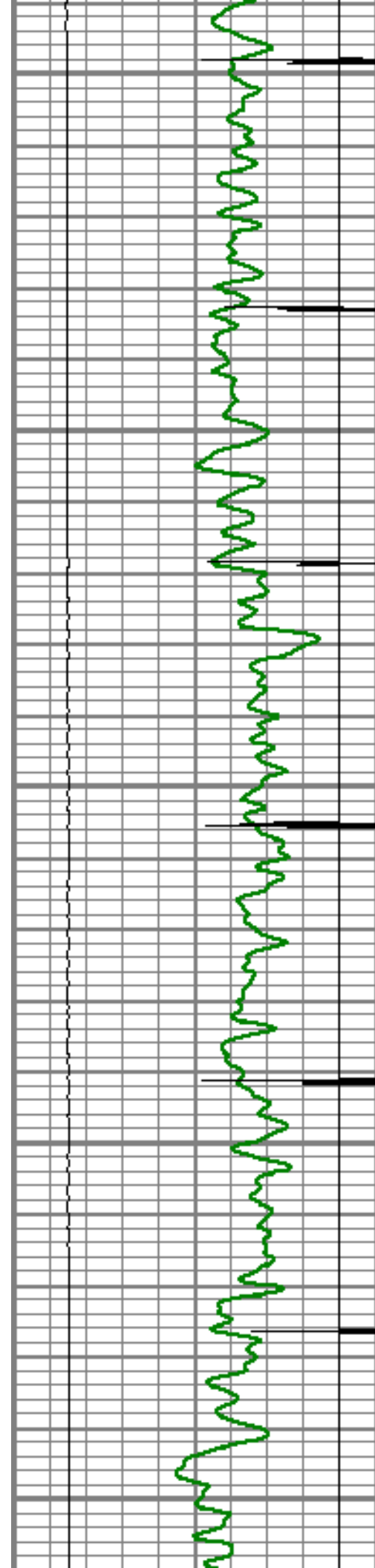
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3900

3950

4000





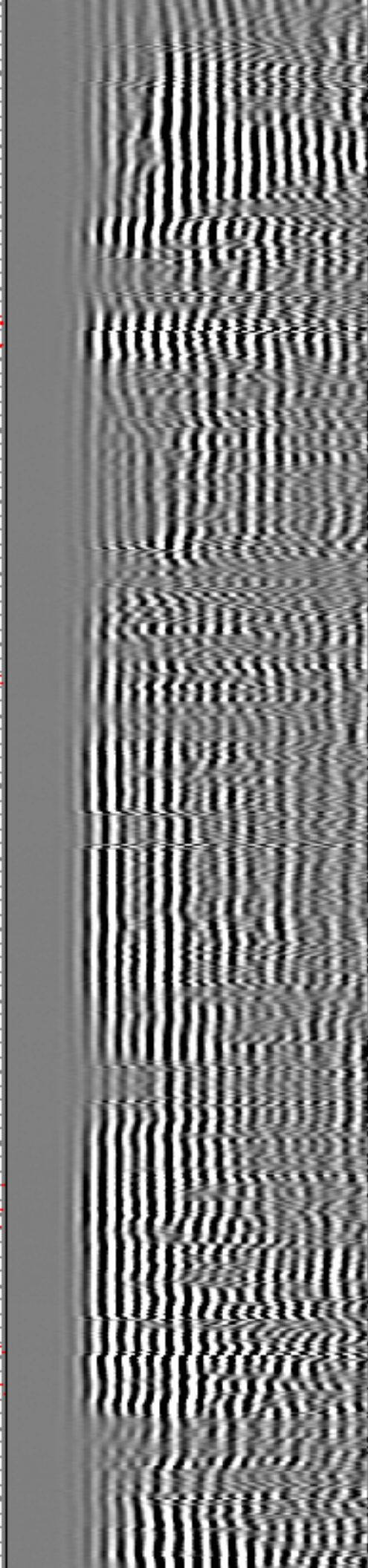
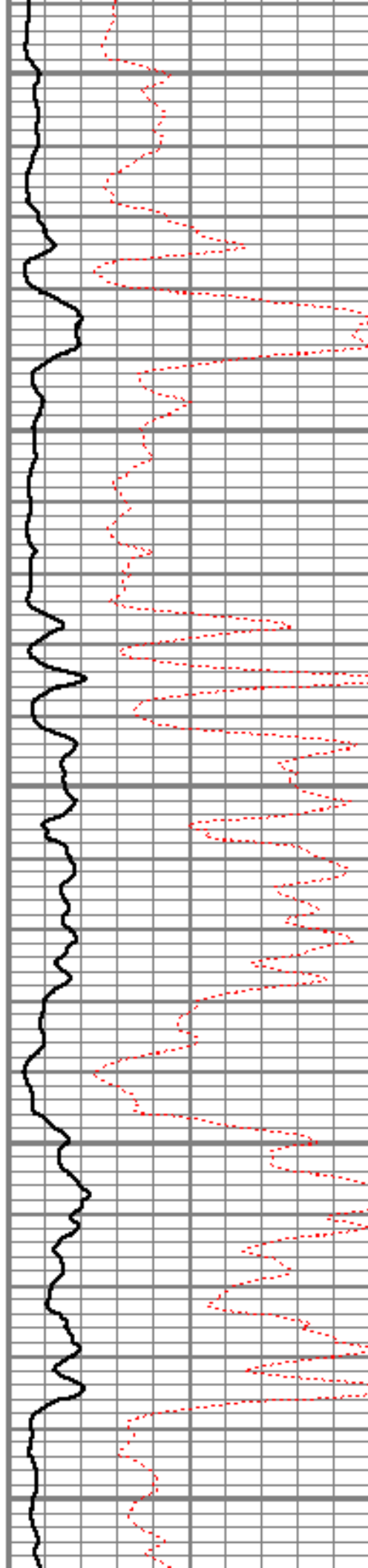
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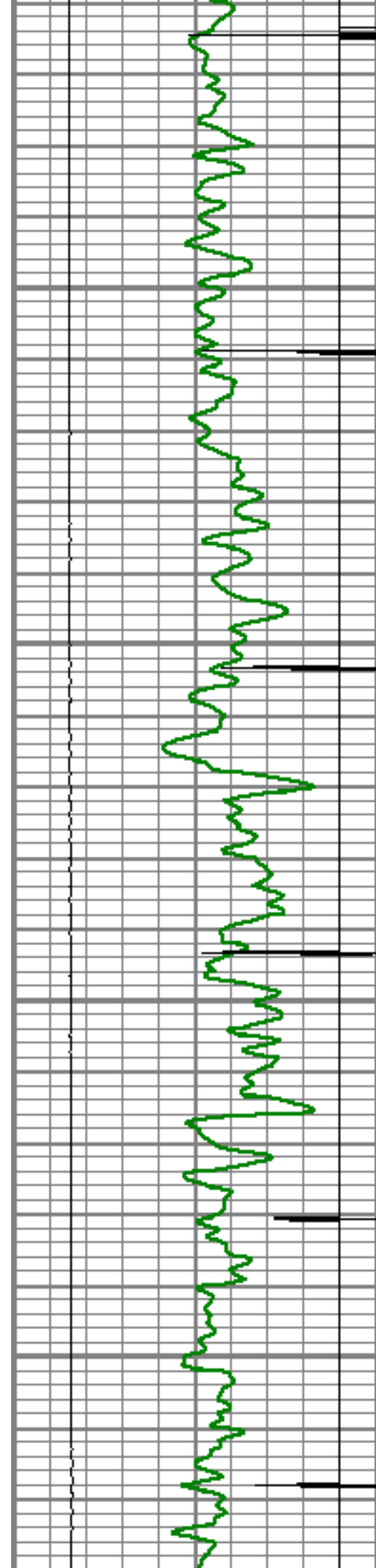
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4200

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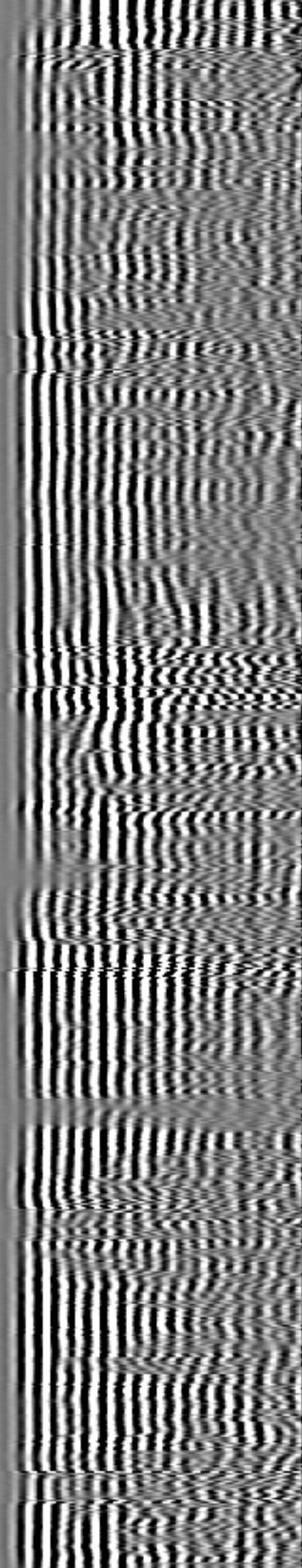
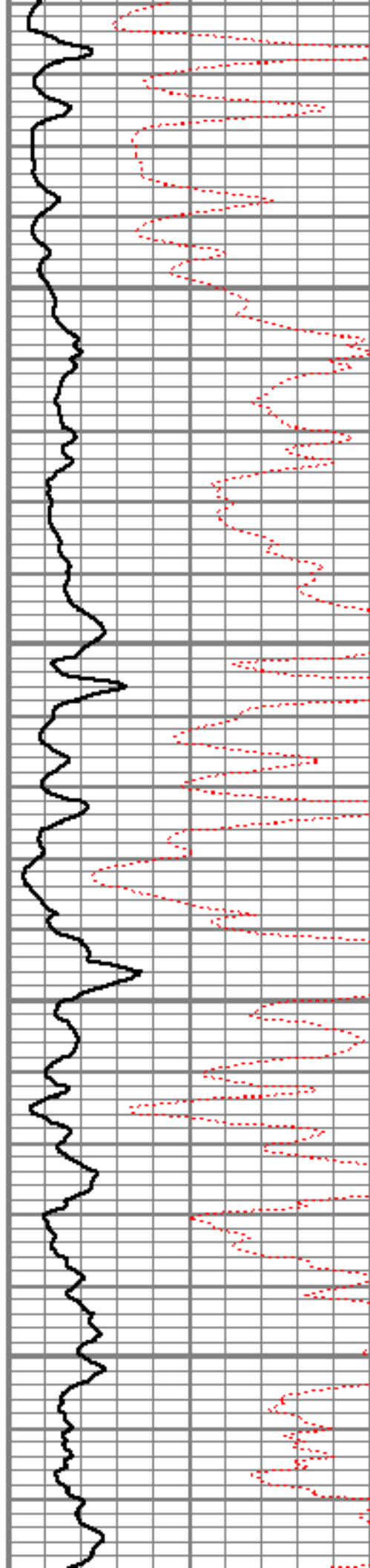


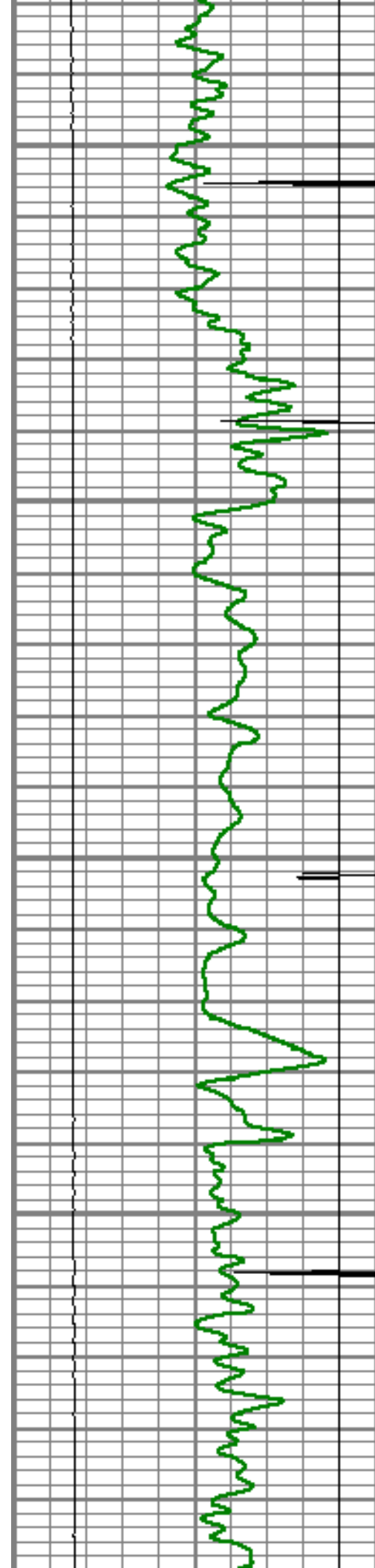
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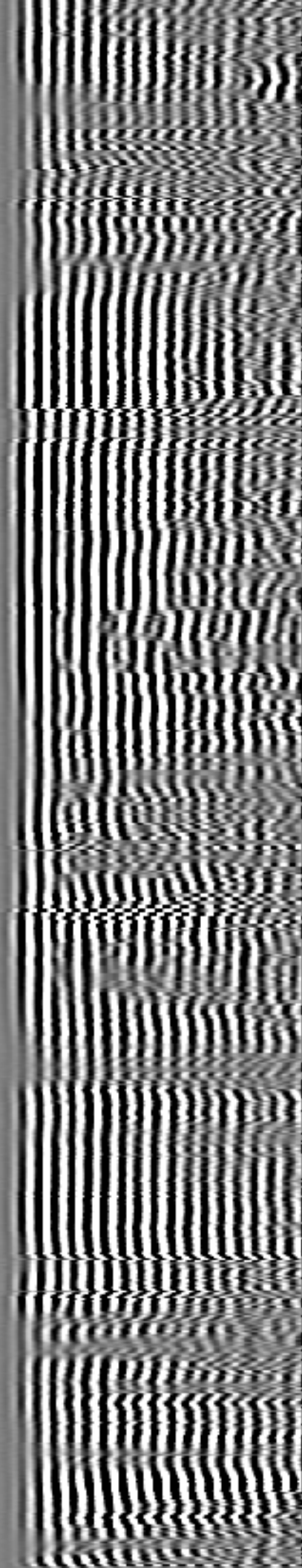
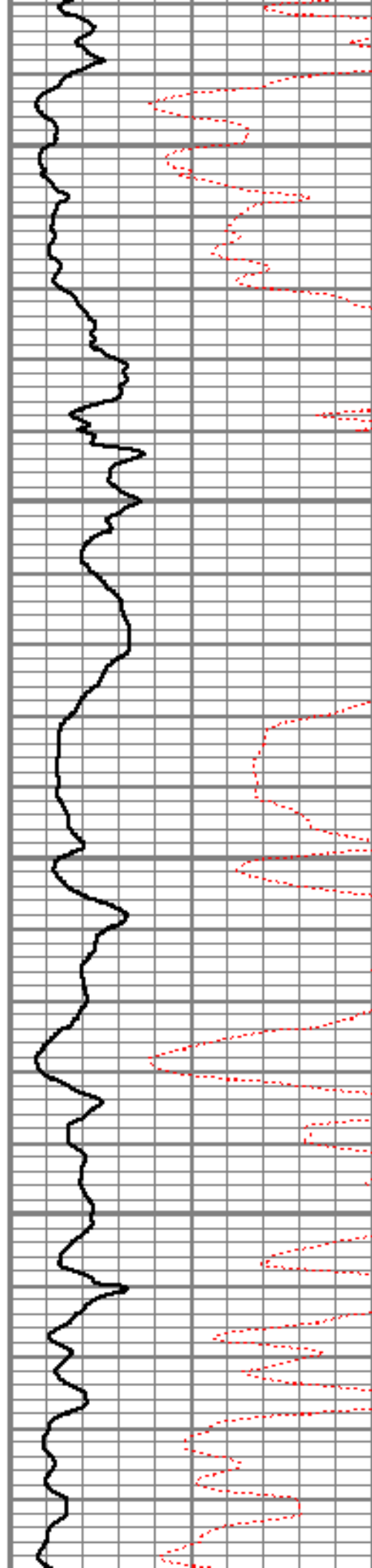
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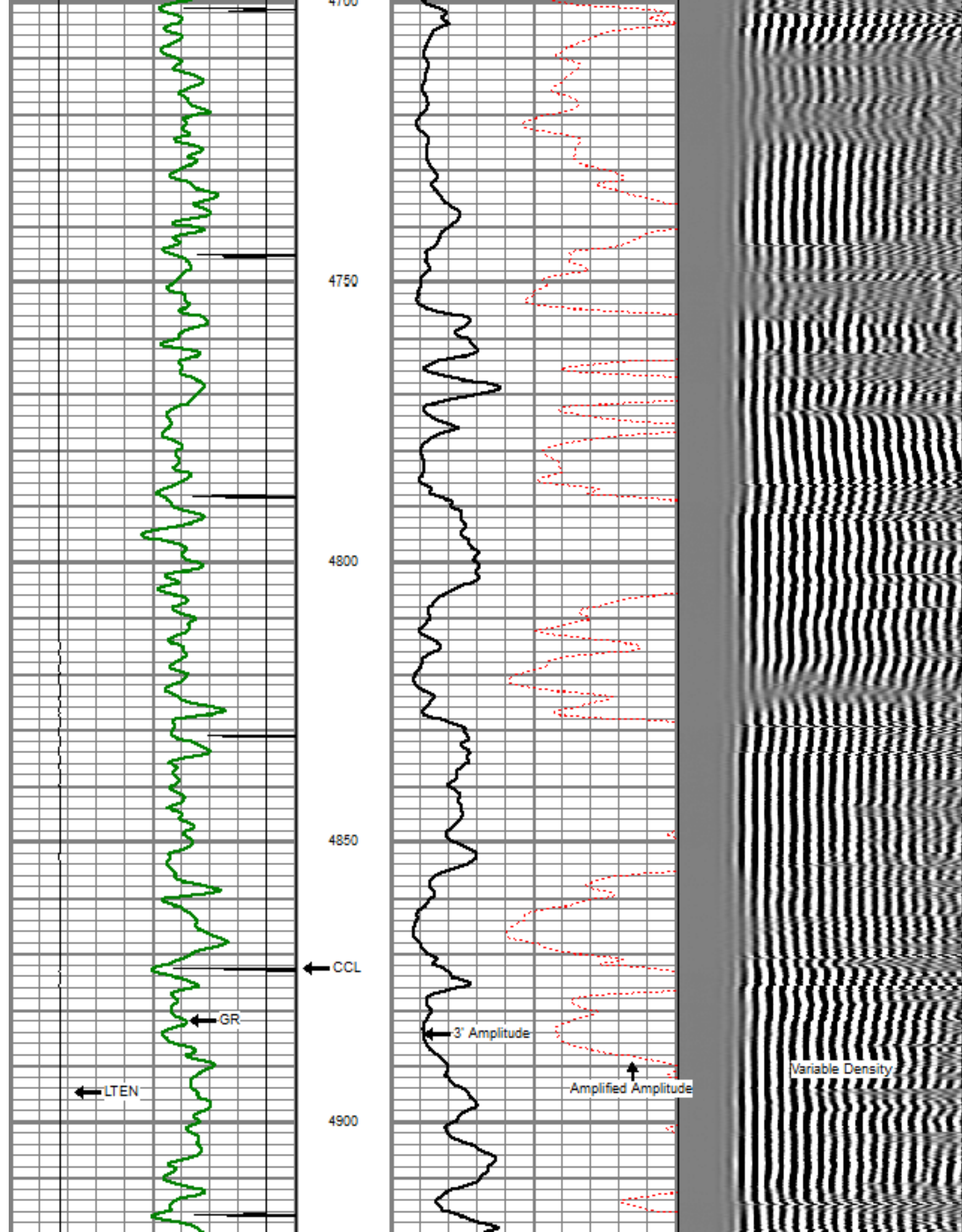
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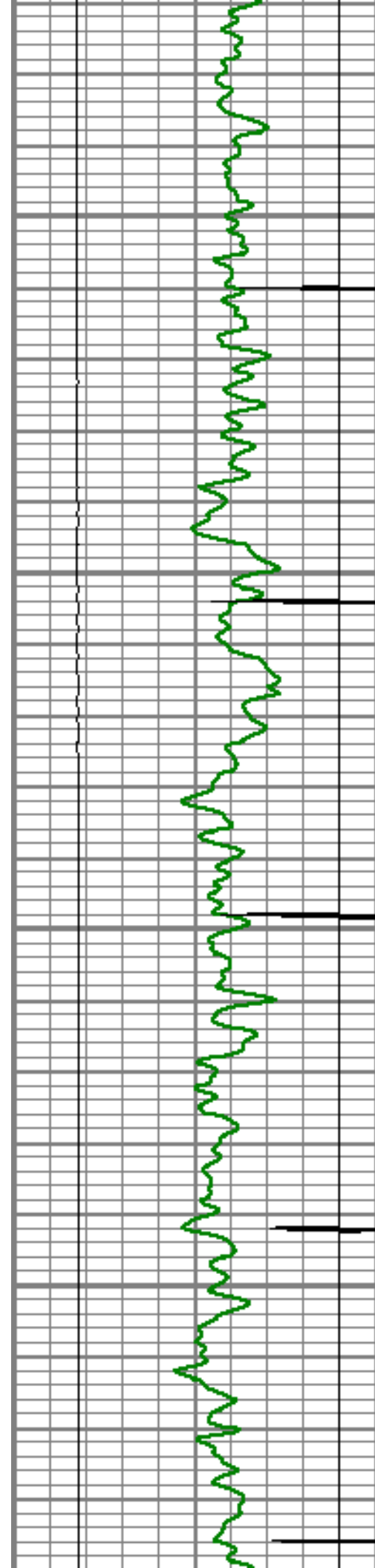
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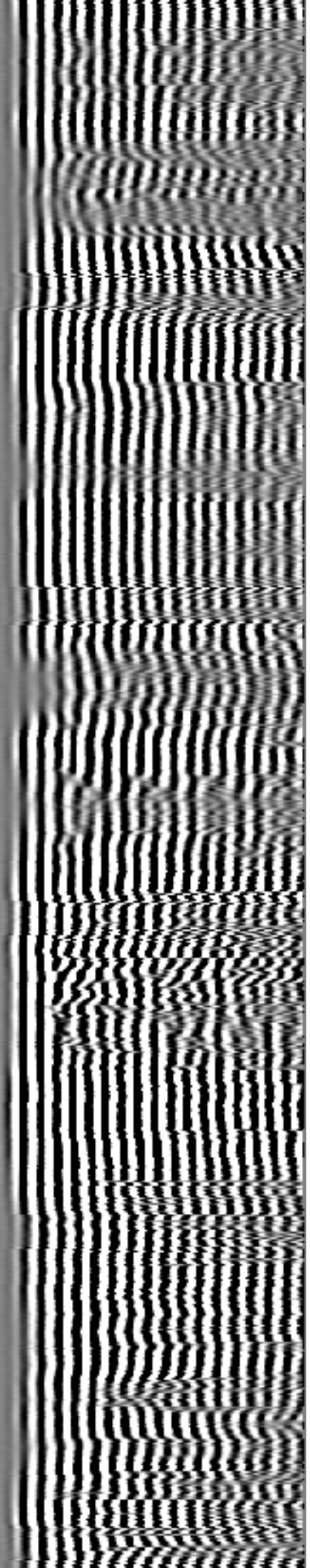
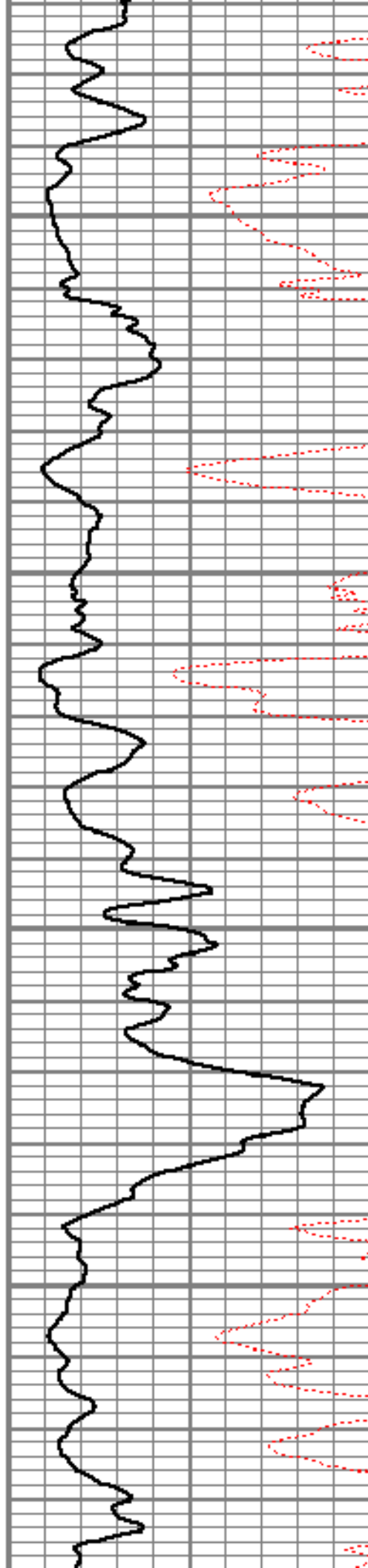


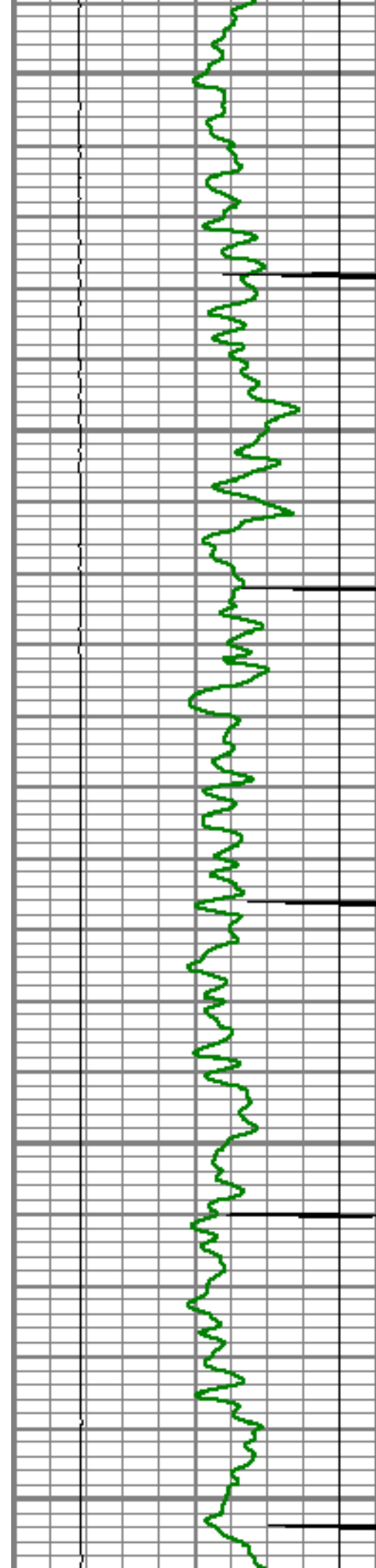
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5000

5050

5100





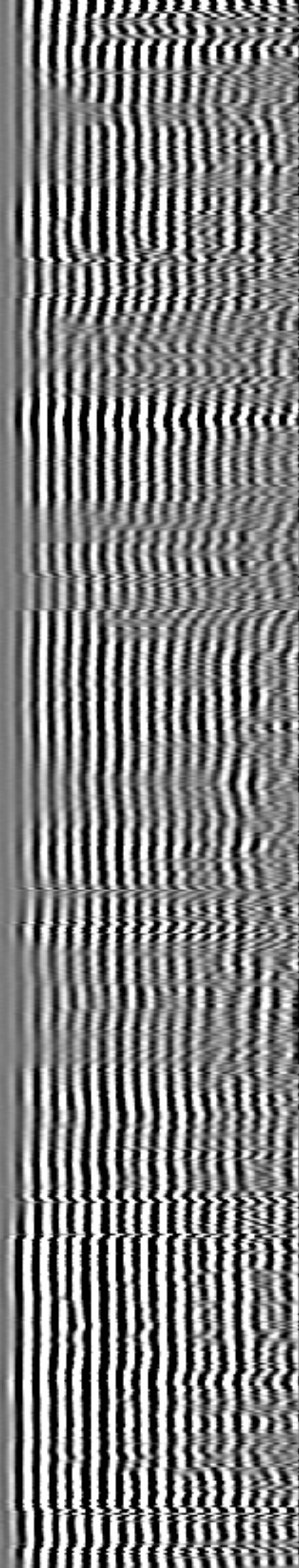
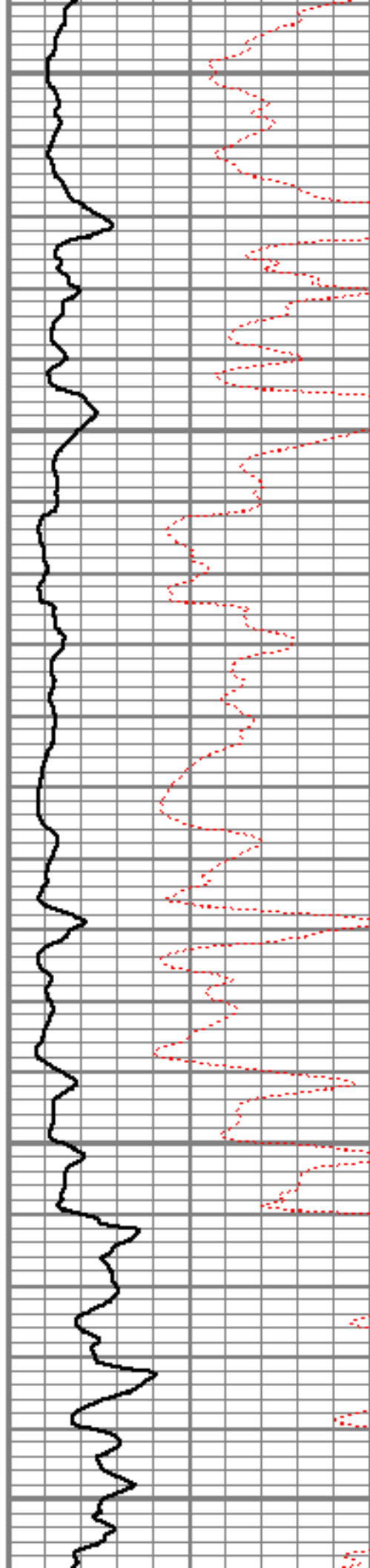
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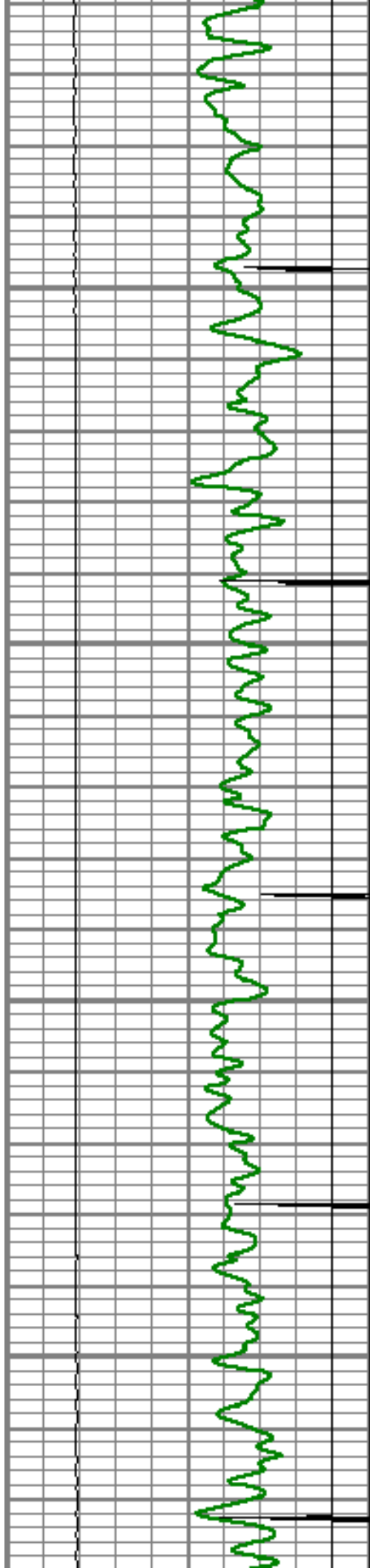
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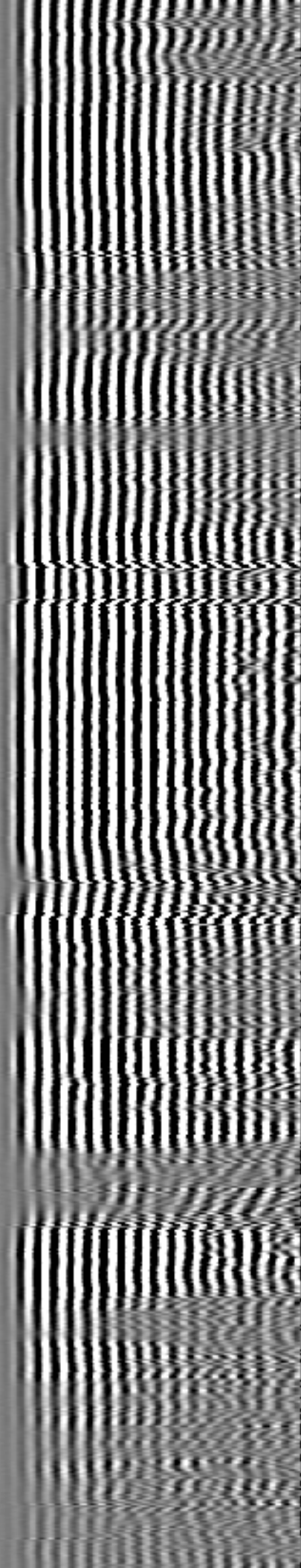
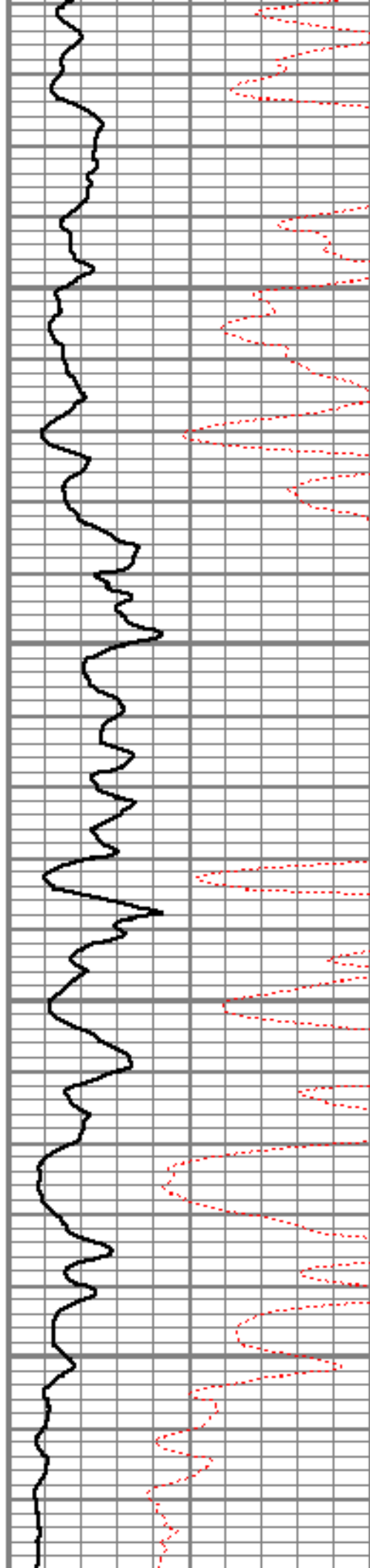


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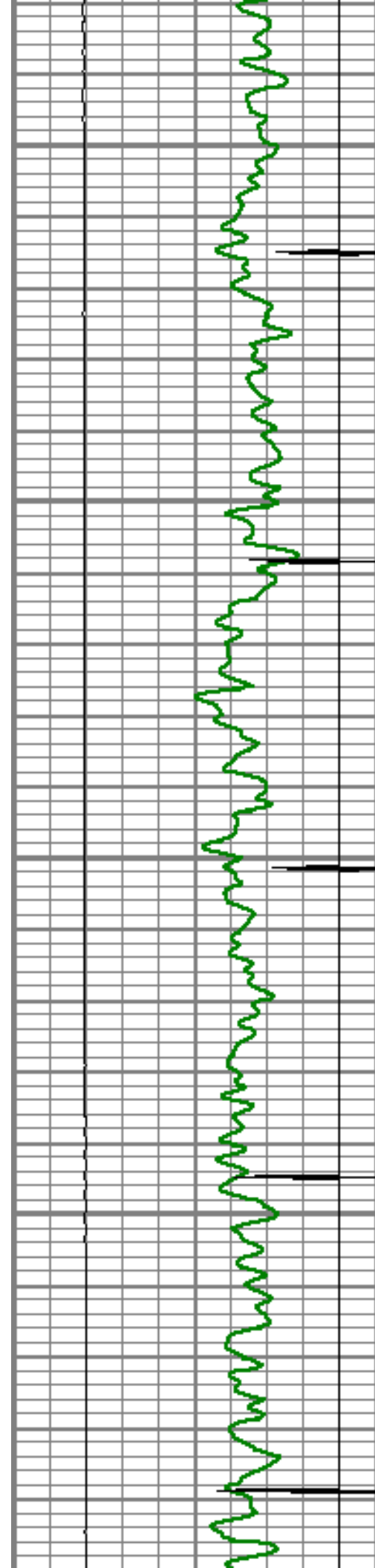
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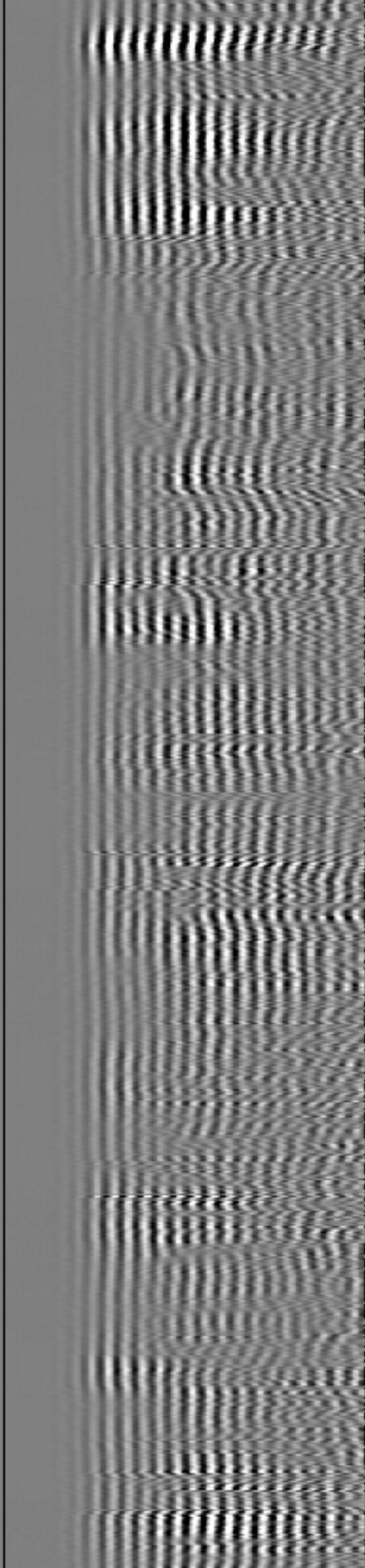
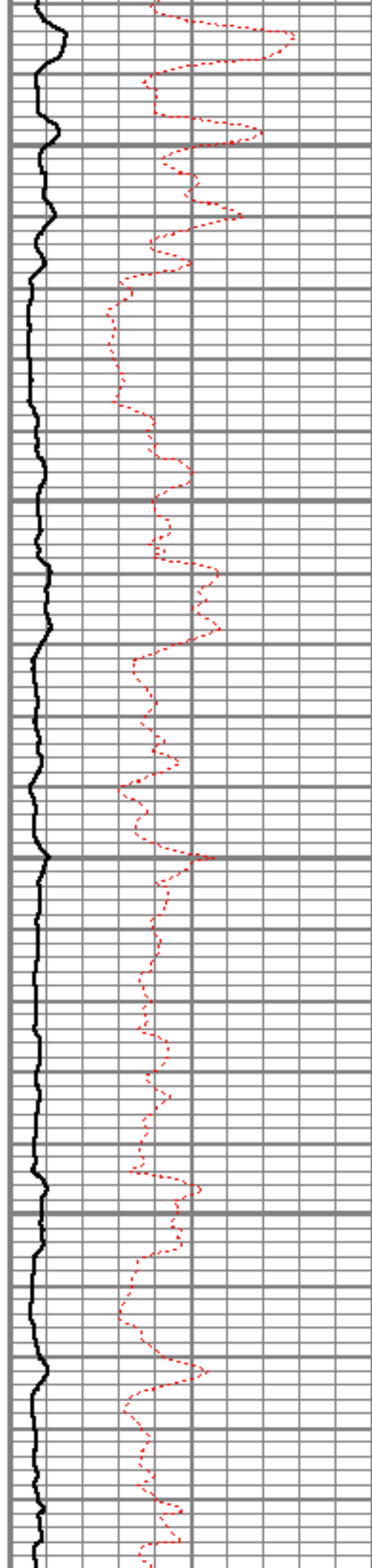
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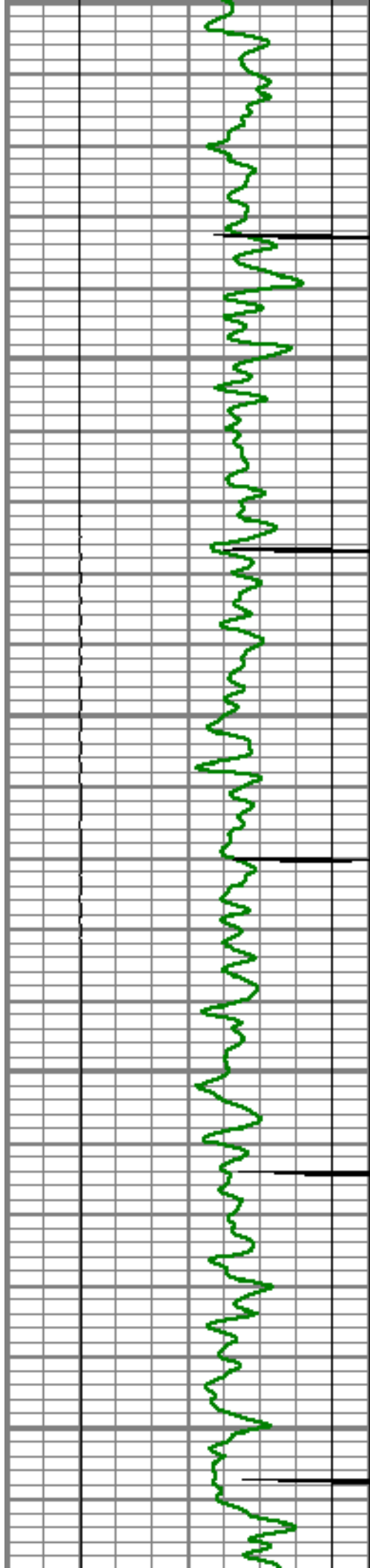
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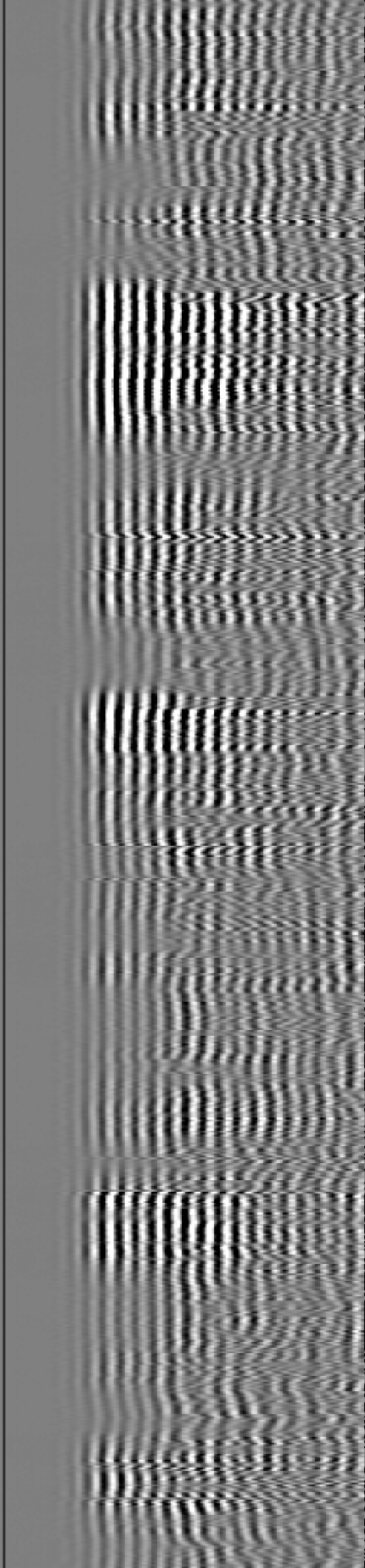
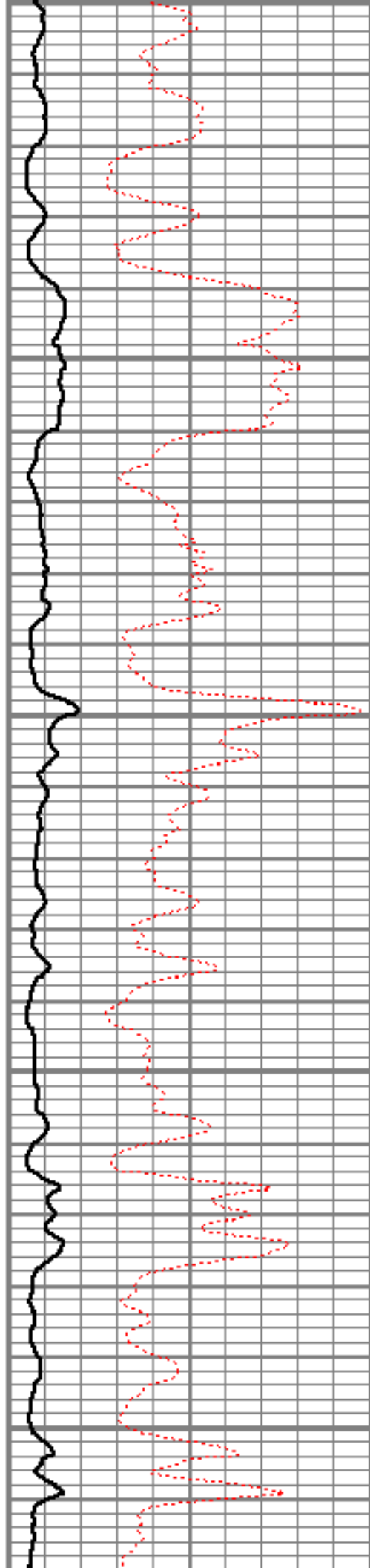
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5850

5900

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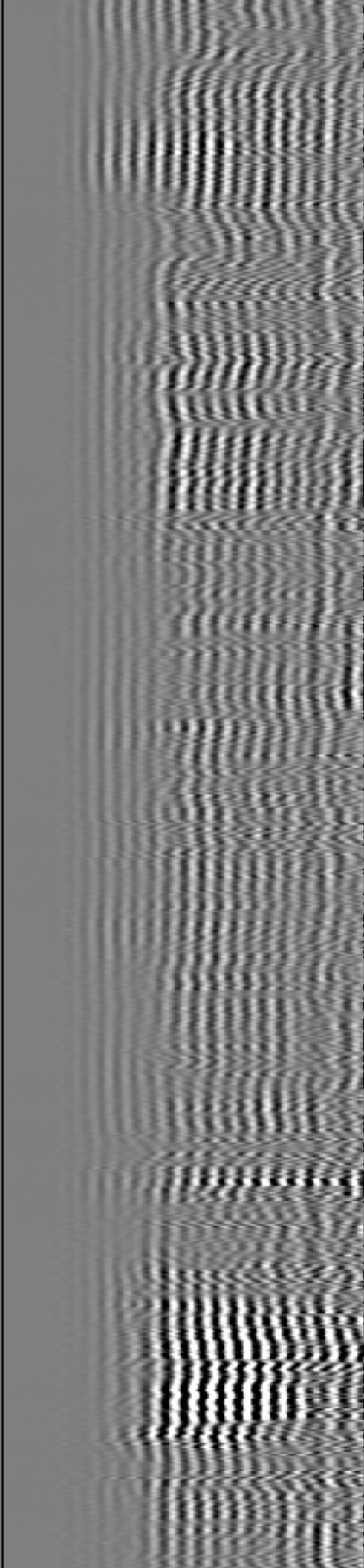
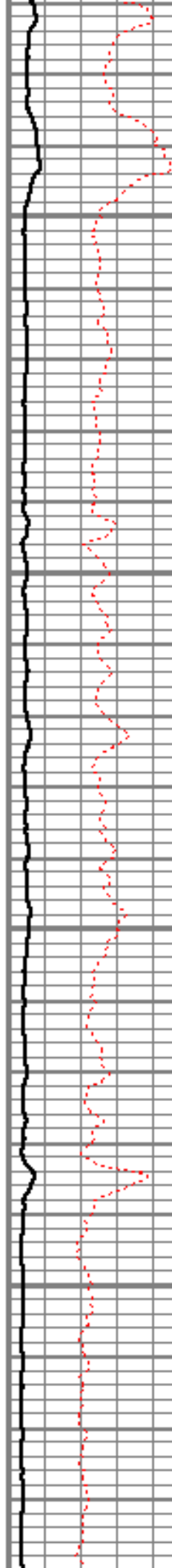


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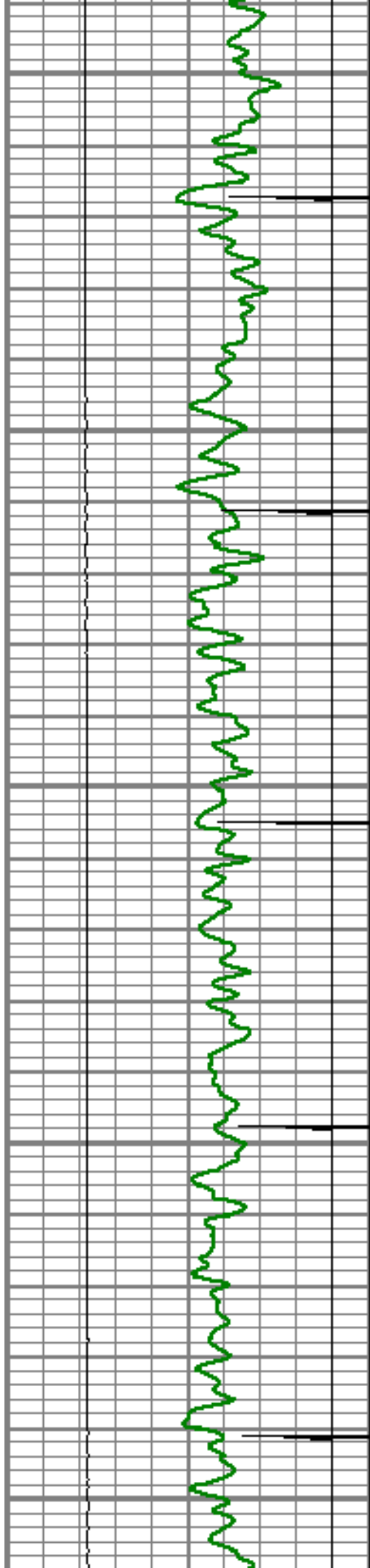
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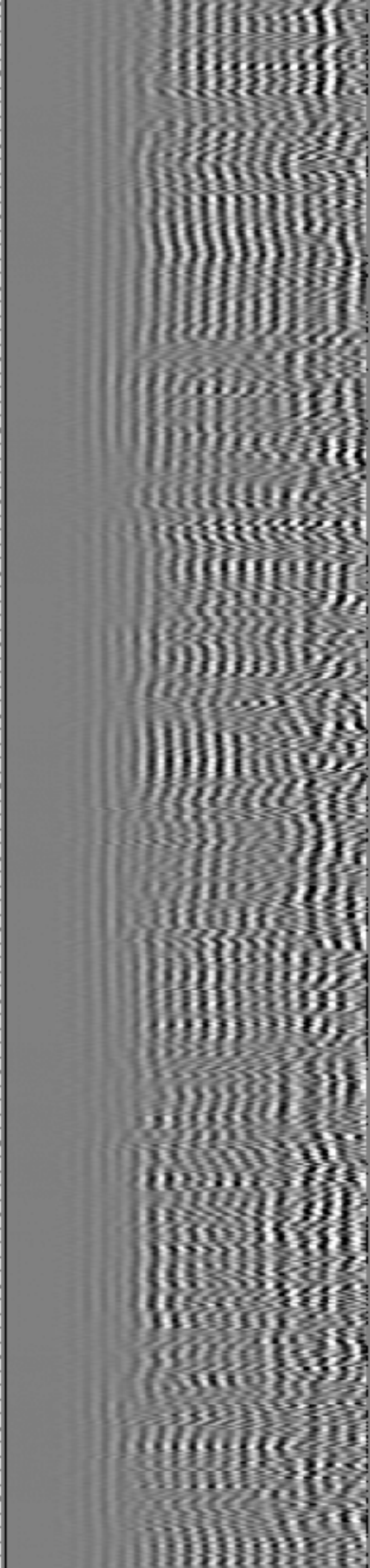
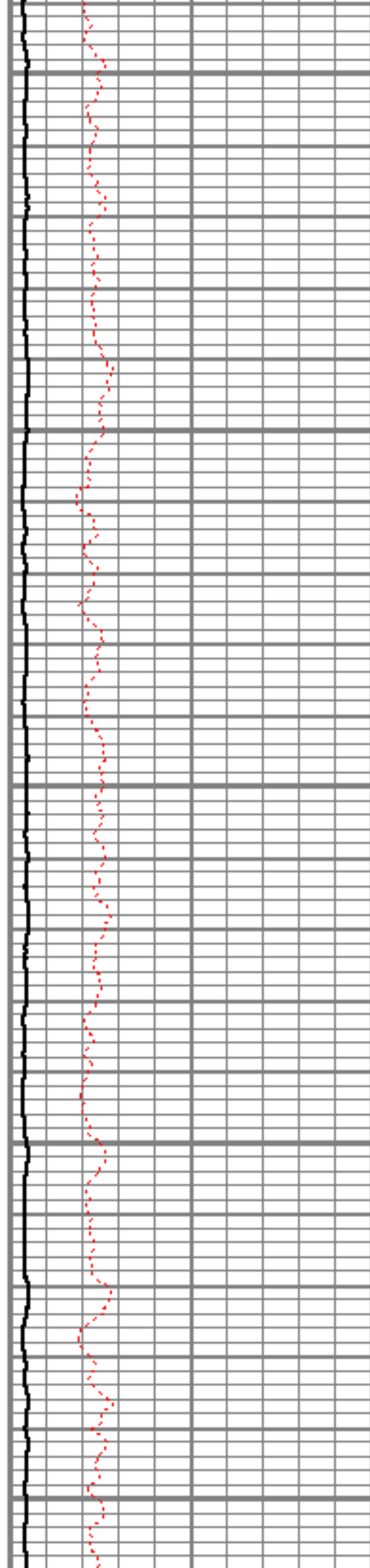
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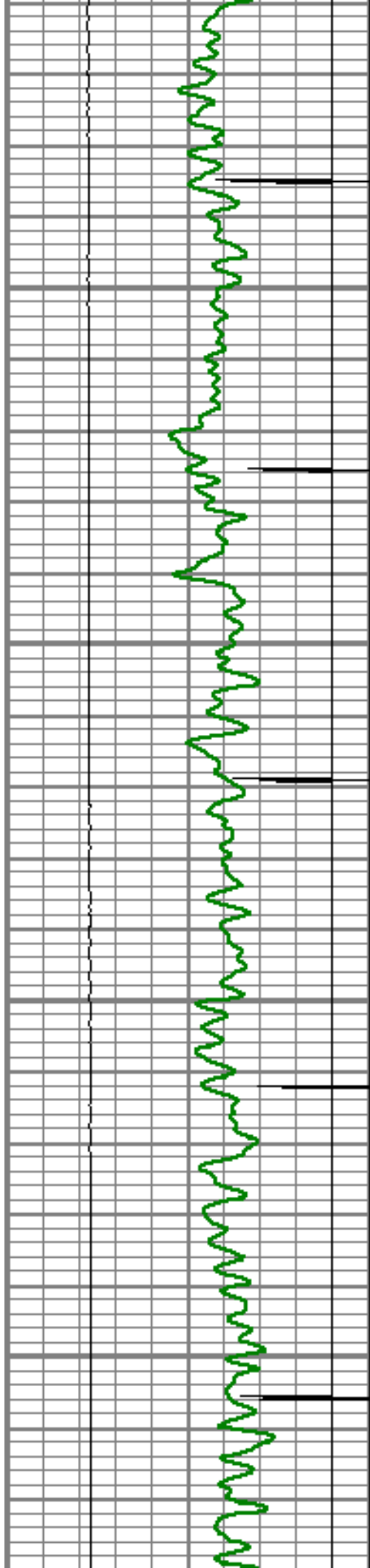
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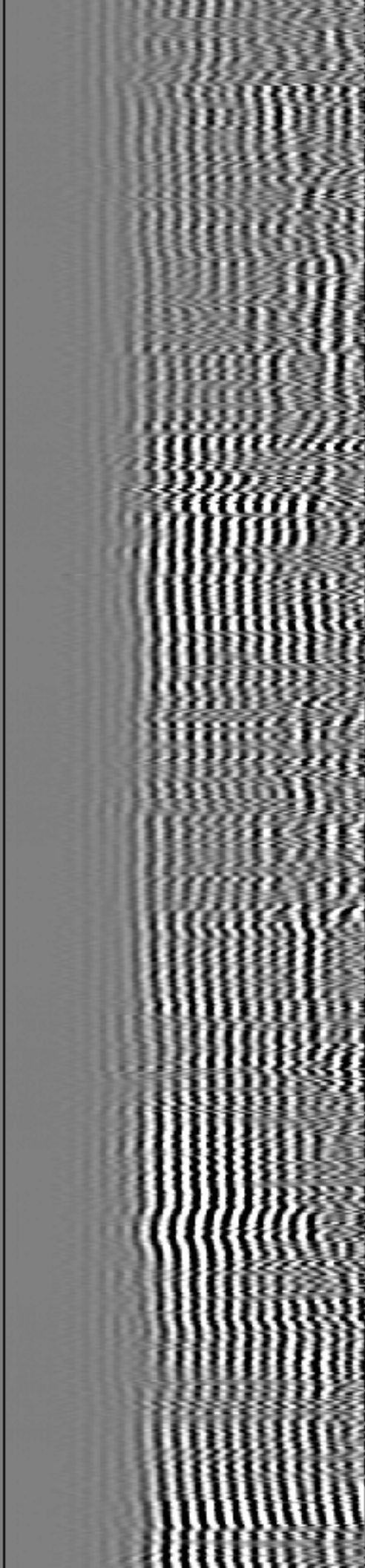
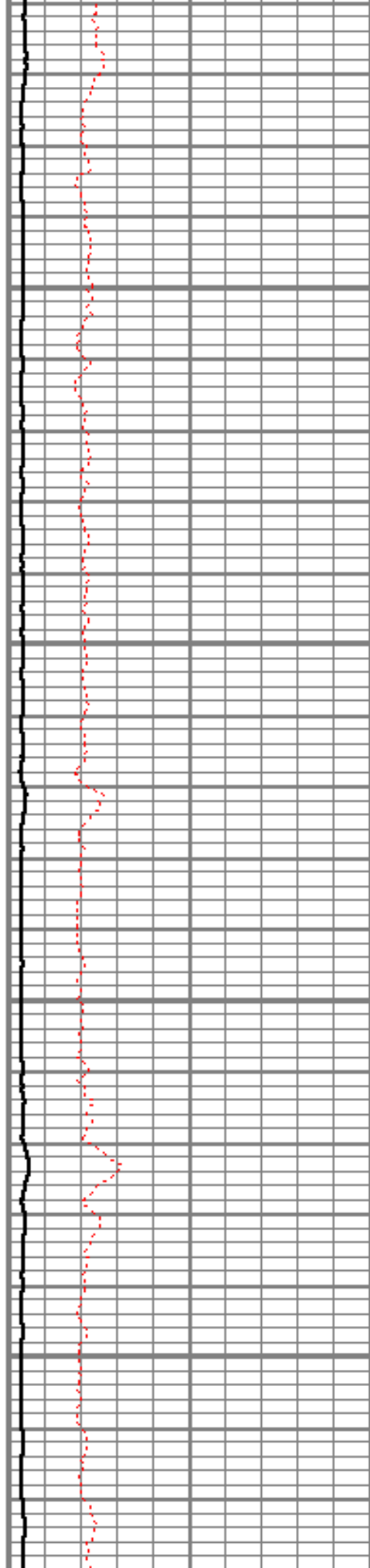


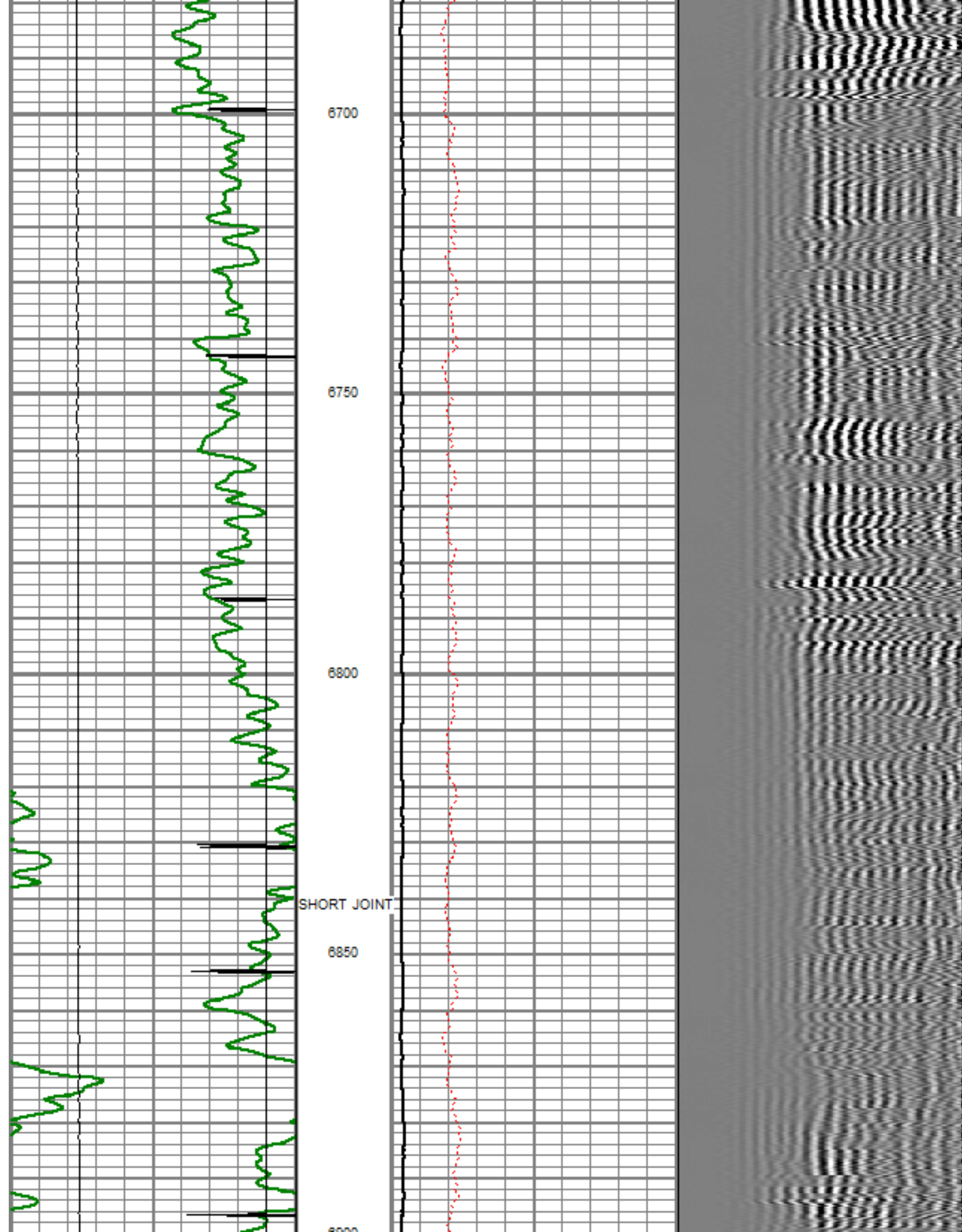
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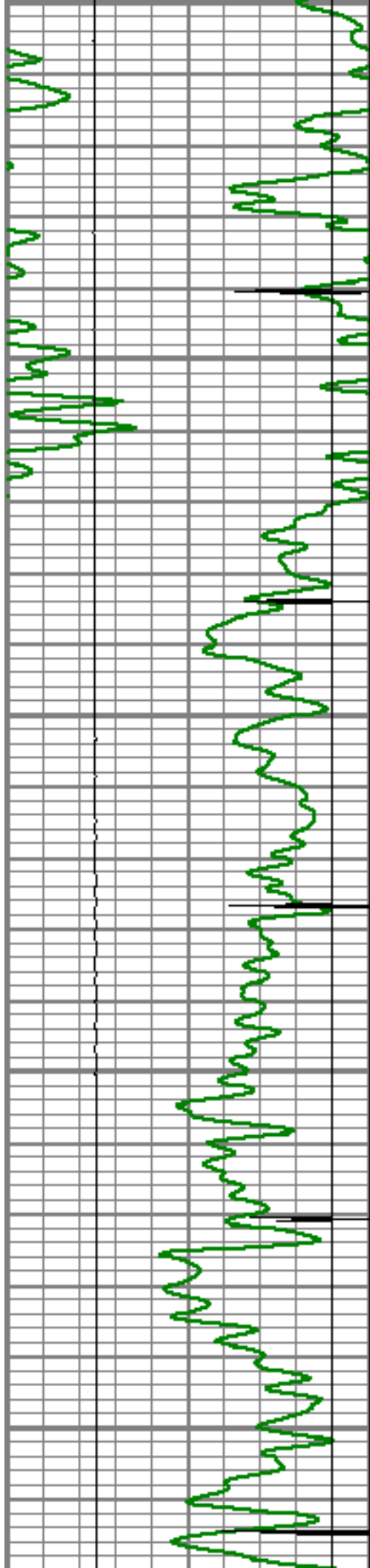
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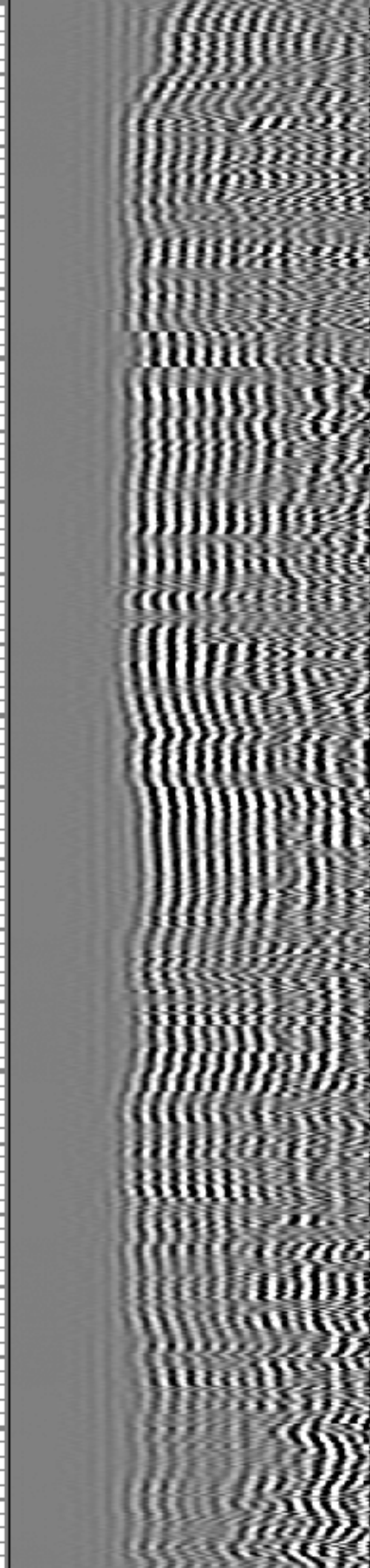
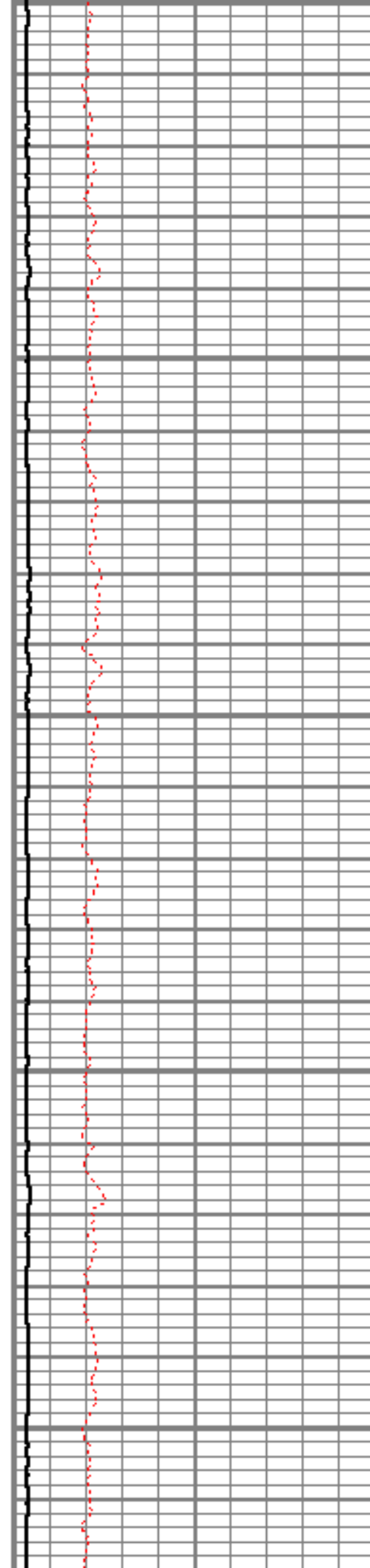
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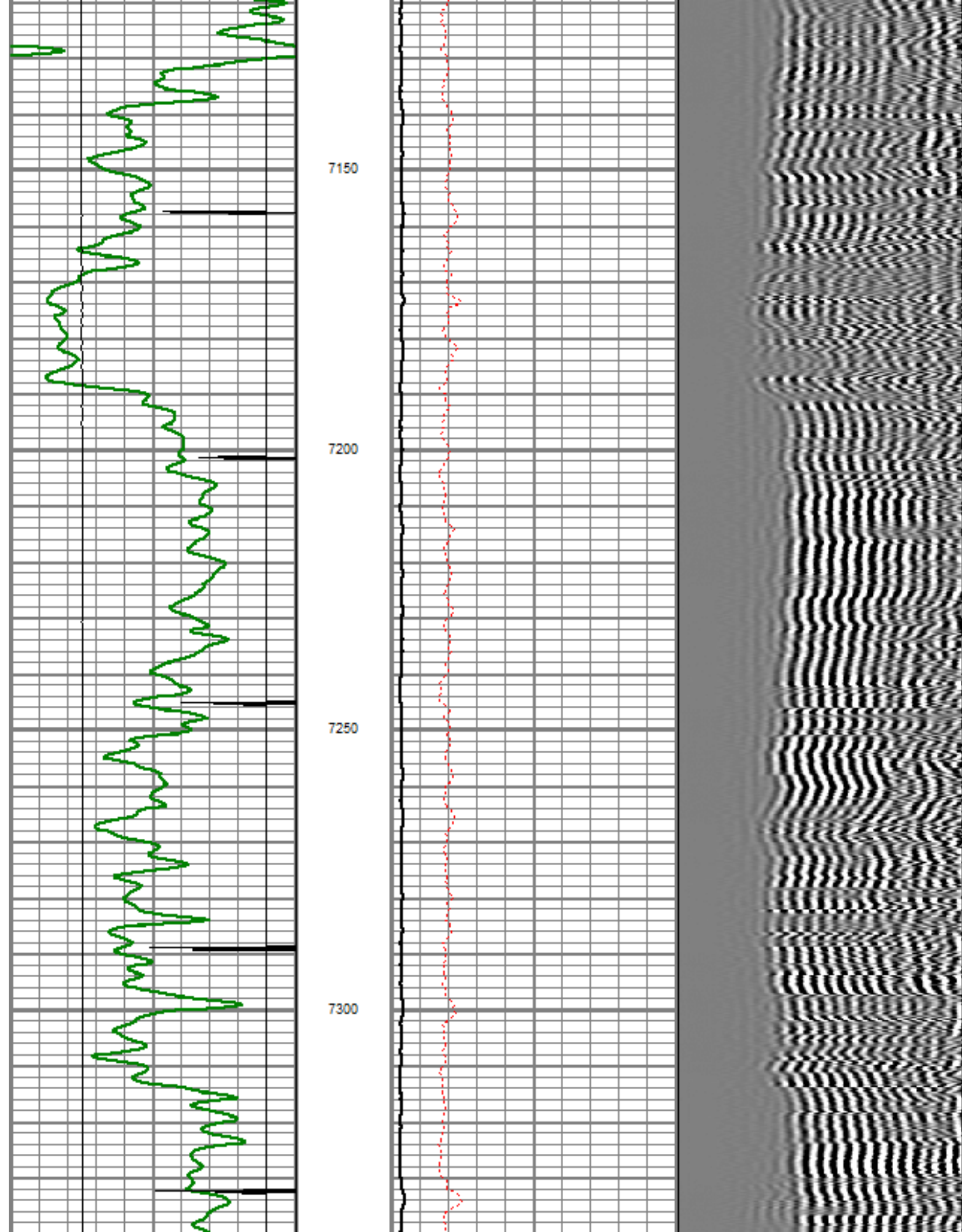
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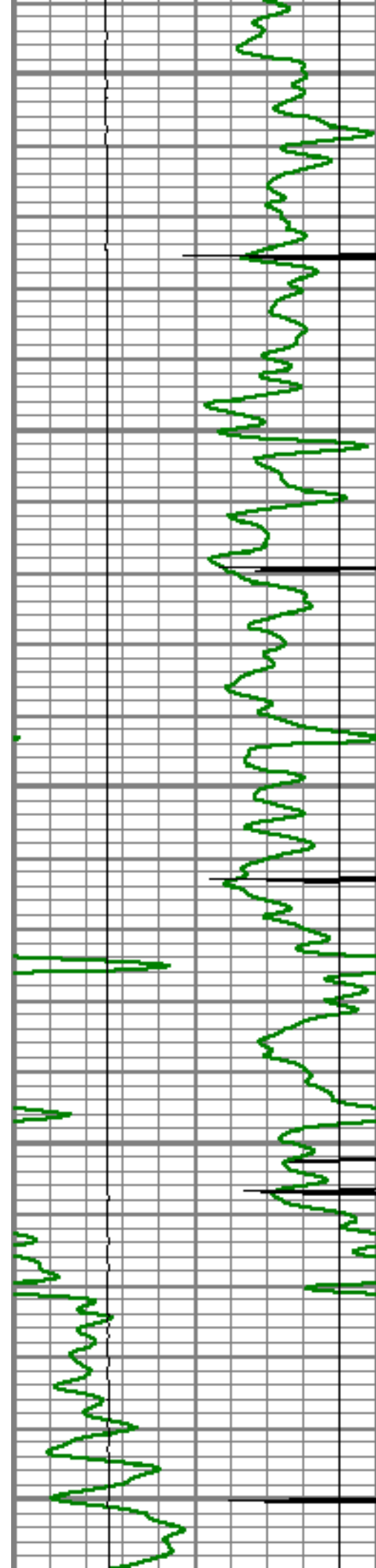
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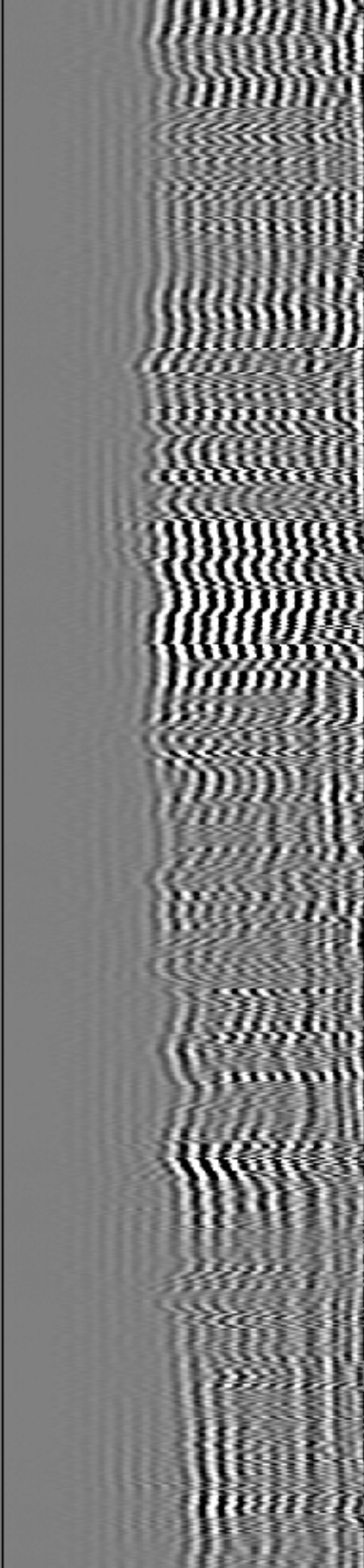
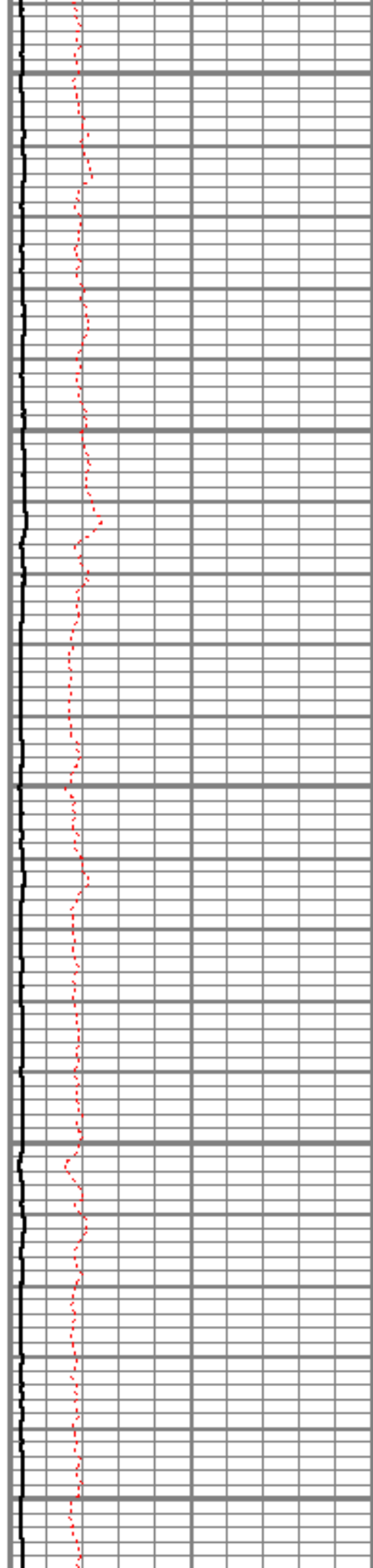
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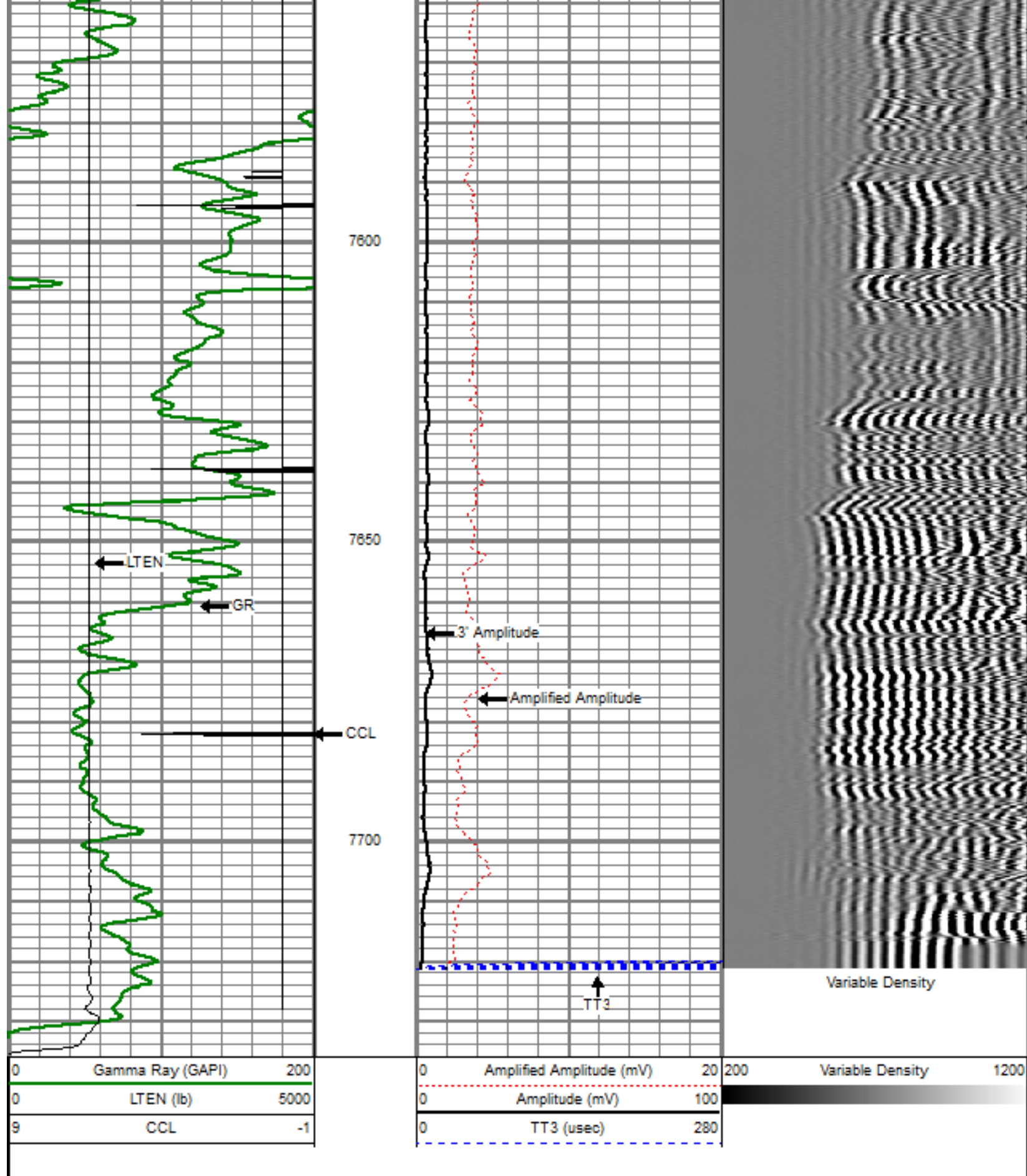
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7500

7550







			Centralizer-Probe (CENT-PROBE-1) Probe Bowspring Centralizer	2.88	2.75	10.00
WVF3	14.54					
WVF5	13.54		CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.77.1) Probe 2.75" Dual Receiver Bond		2.75	60.00
			Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer	2.88	2.75	10.00
CCL	6.50					
			GR-PROBE_GRCLL (PRB_GRCLL_275_014.54) Probe 2.75" 4 Channel Pulse		2.75	30.00
GR	3.77					
			TEMP-Comprobe (TEMP_CMPRB_1375_012.88) Positive pulse Temp tool		1.38	15.00
TEMP	0.17					
Dataset: aristocrat angus 4-0-3.db: field/well/run1/pass6.2OH Total Length: 22.96 ft Total Weight: 126.50 lb O.D. 2.75 in						



Company  
Well

ENCANA OIL & GAS (USA) INC  
ARISTOCRAT ANGUS 4-0-3



Field  
County  
State

WATTENBERG  
WELD  
COLORADO