



# CEMENT BOND LOG

Mesa Wireline

Company ENCANA OIL & GAS (USA) INC  
Well FILE 31-17  
Field WATTENBERG  
County WELD  
State COLORADO

Company ENCANA OIL & GAS (USA) INC  
Well FILE 31-17  
Field WATTENBERG  
County WELD State COLORADO

Location: API #: 05-123-34264-0000  
SHL: 1043' FNL & 1735' FEL  
BHL: 515' FNL & 2147' 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. 4883'

Date	12 APRIL 2012		
Run Number	ONE		
Depth Driller	8059'		
Depth Logger	7954'		
Bottom Logged Interval	7954'		
Top Log Interval	2700'		
Open Hole Size	7.875"		
Type Fluid	WATER		
Density / Viscosity	~8.3#		
Max. Recorded Temp.	250 DEG F		
Estimated Cement Top	2930'		
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		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	0'	990'				
TWO	7.875"	990'	8074'				
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	8.625"	24#	0'	983'			
Prot. String							
Production String	4.5"	11.6#	0'	8059'			
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 6 APRIL 2012

SHORT JOINT 7119' - 7139'

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



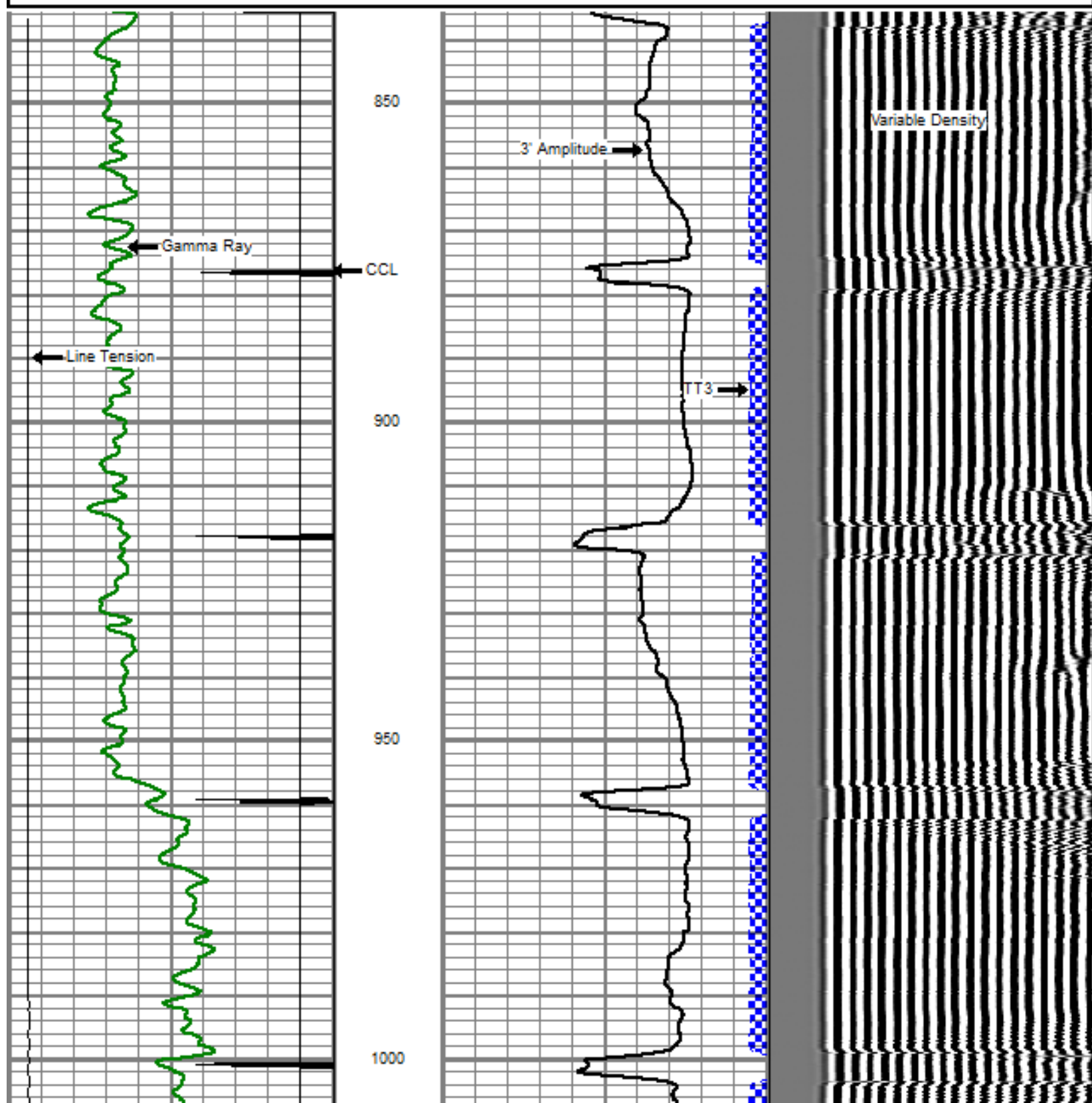
TOP PASS

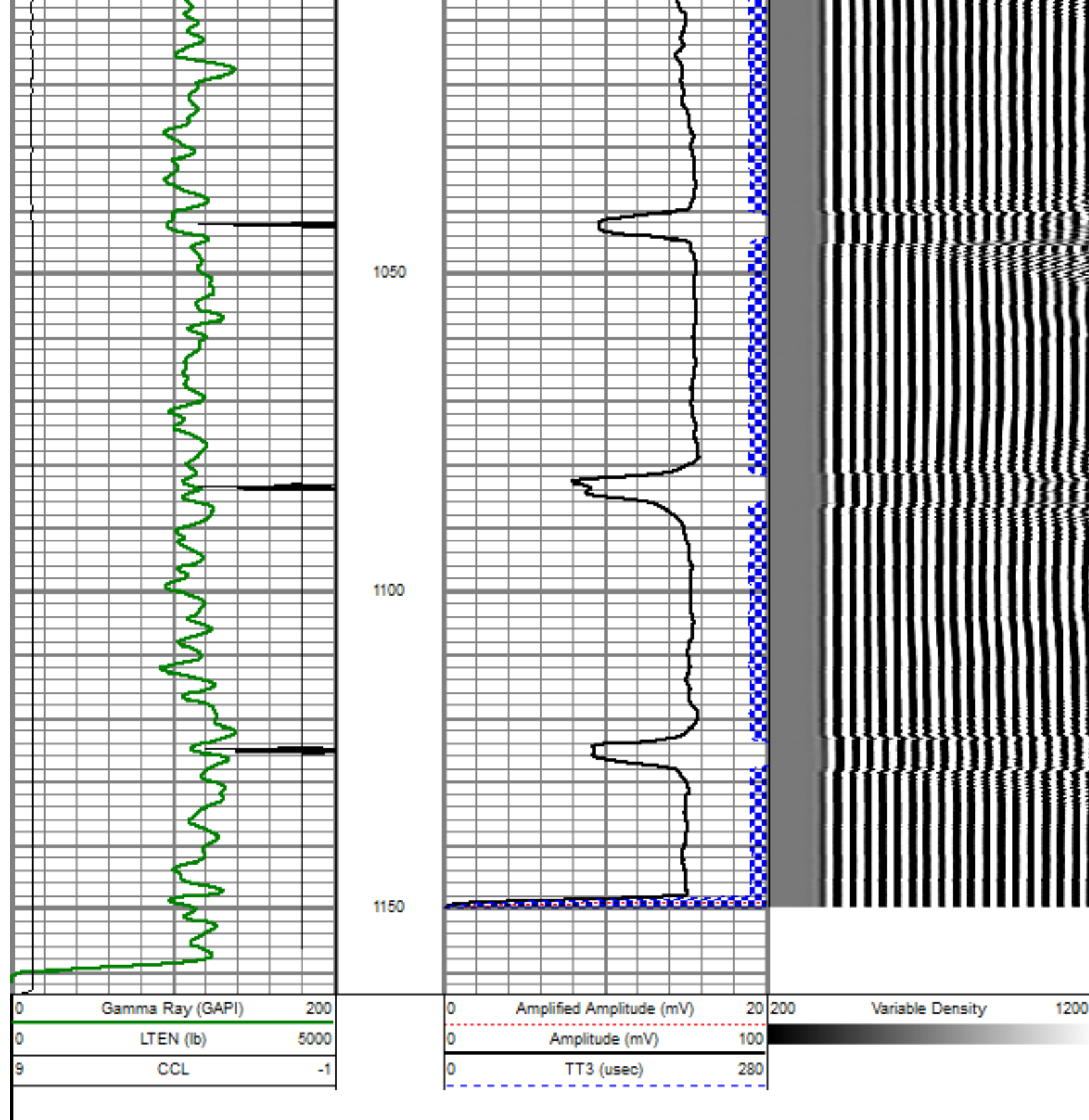
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Presentation Format: dobl\_prb  
Dataset Creation: Thu Apr 12 15:45:57 2012 by Log SCH 110722  
Charted by: Depth in Feet scaled 1:240

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

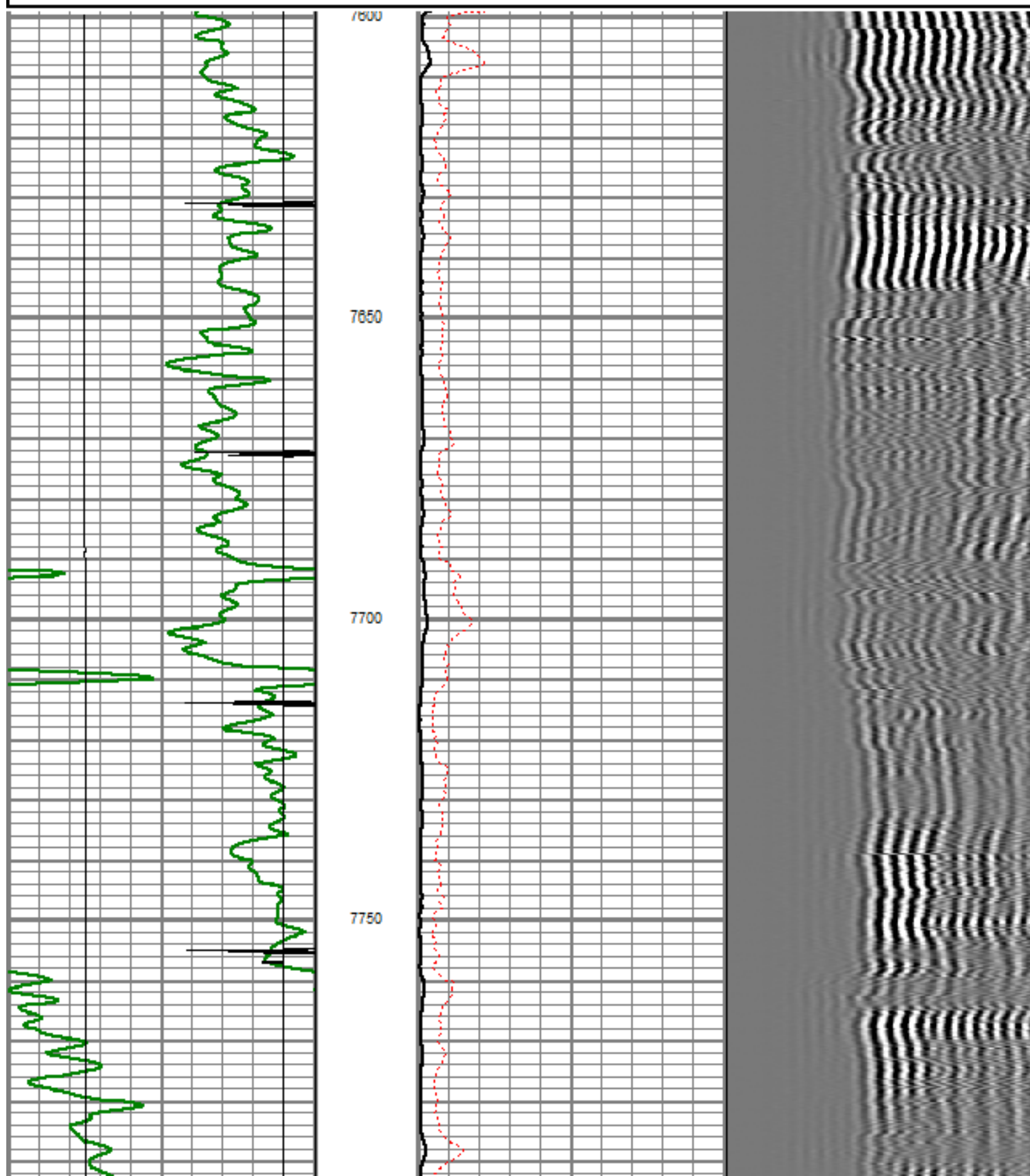
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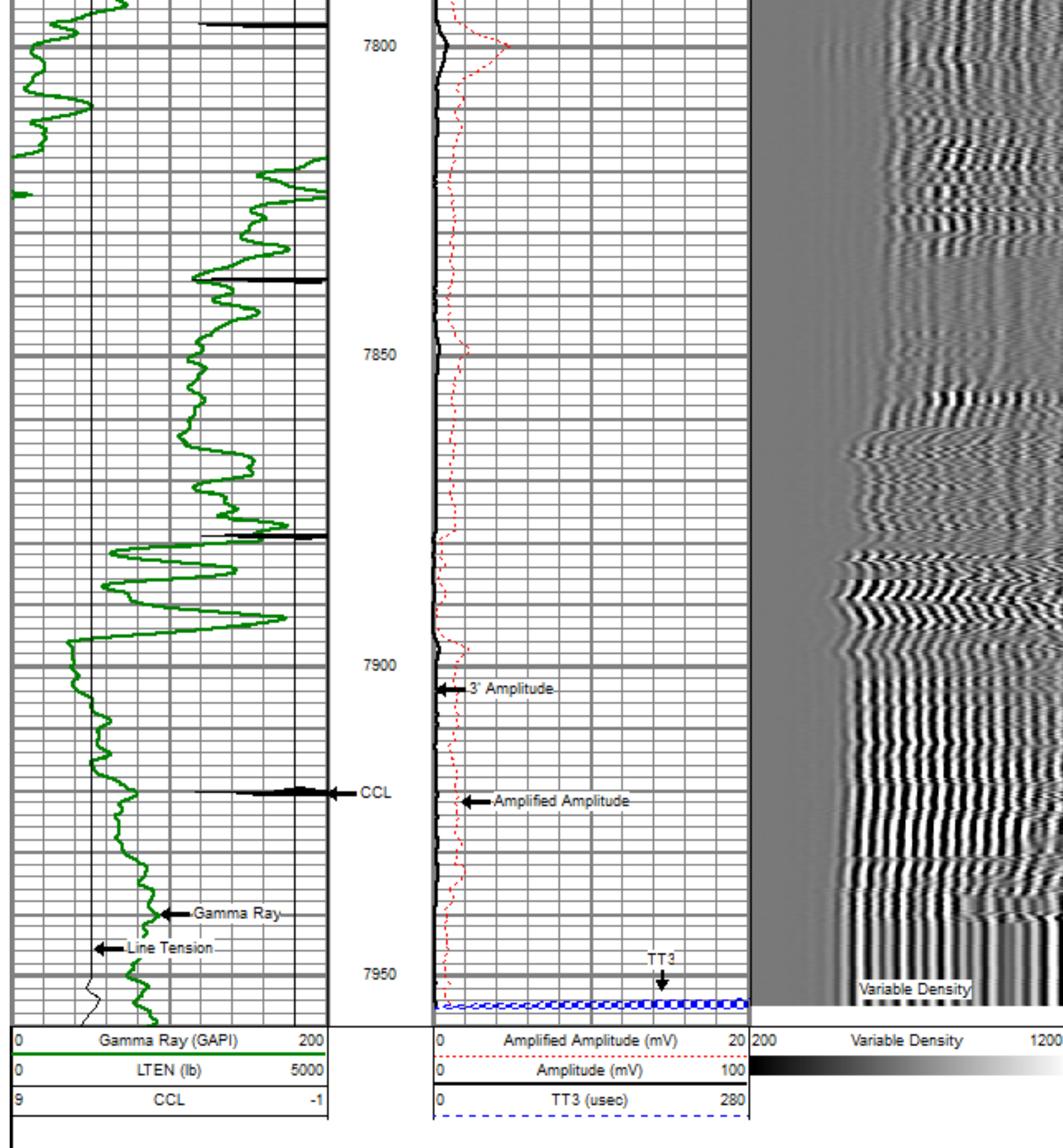
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 Plot Date: 04/12/2012

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





MAIN PASS

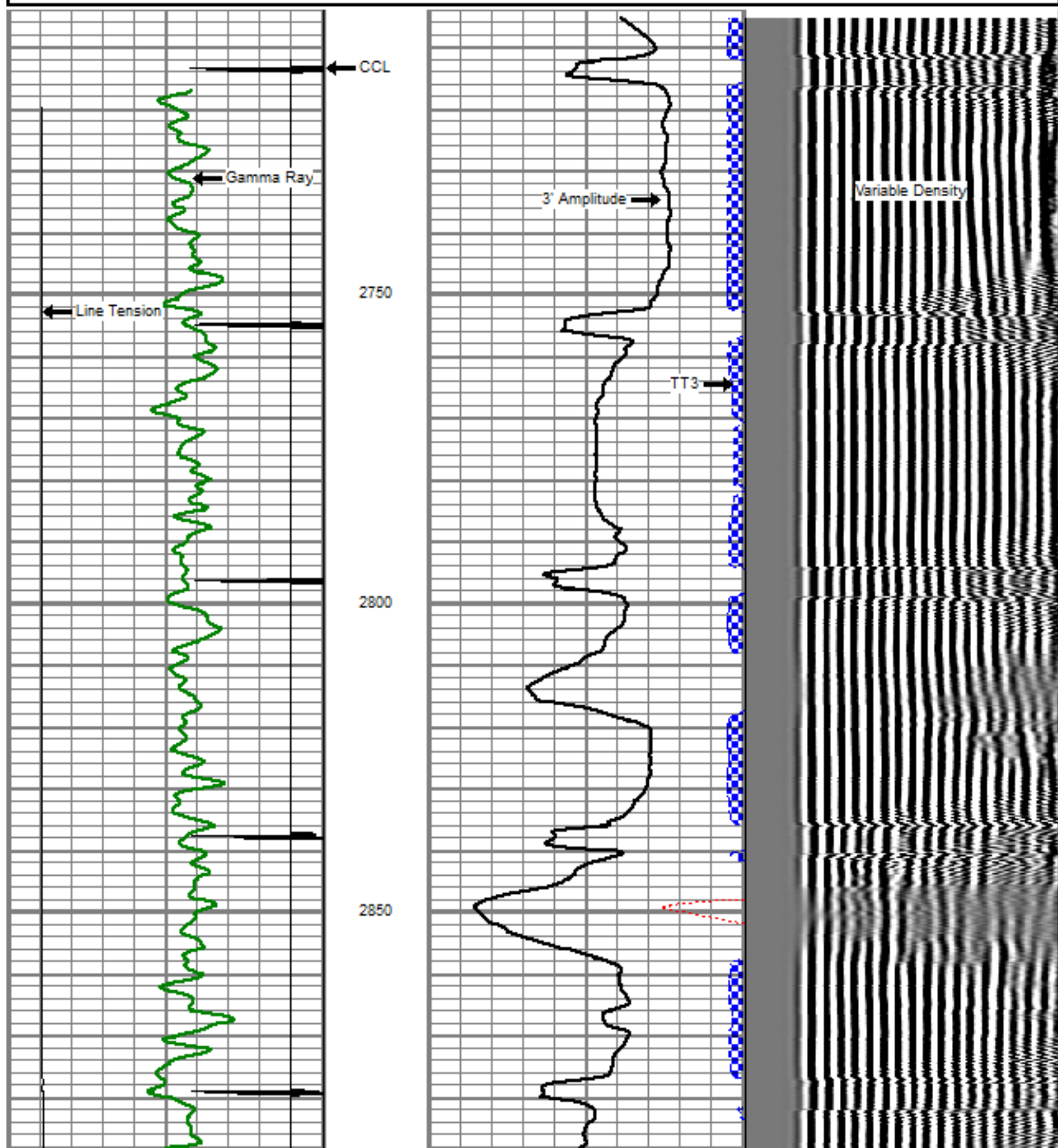
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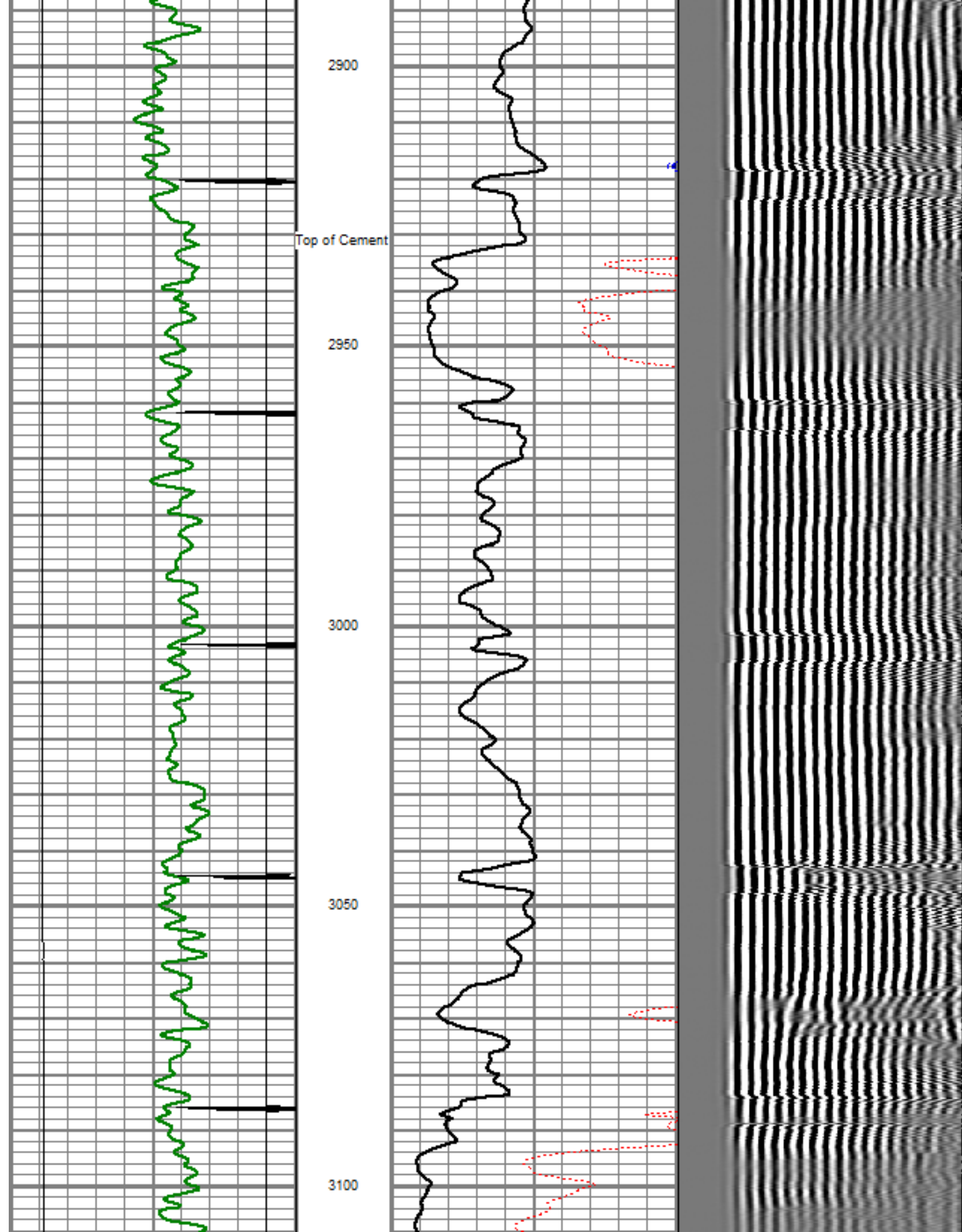
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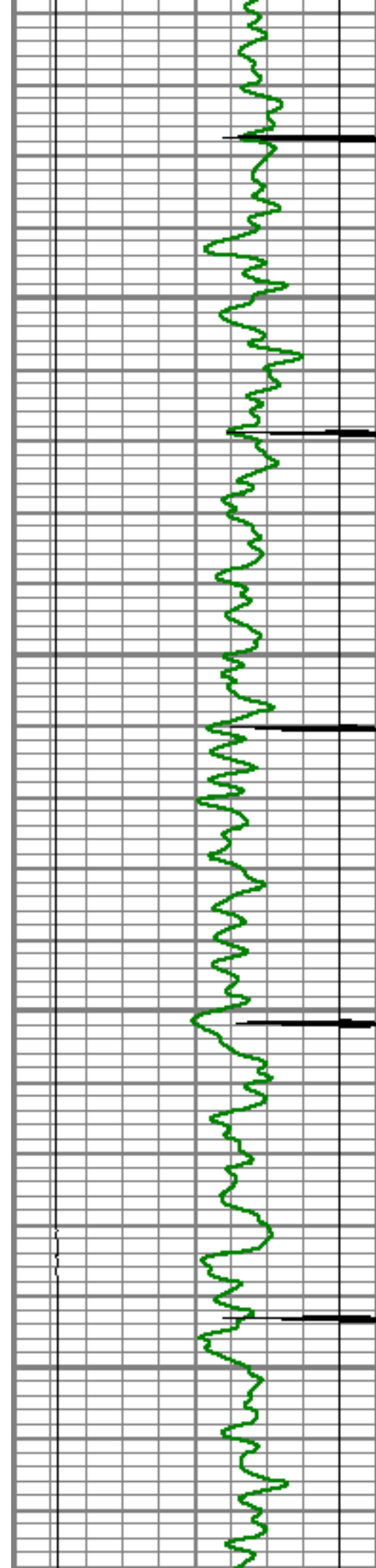
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0	LTEN (lb)	5000
9	CCL	-1

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

200	Variable Density	1200
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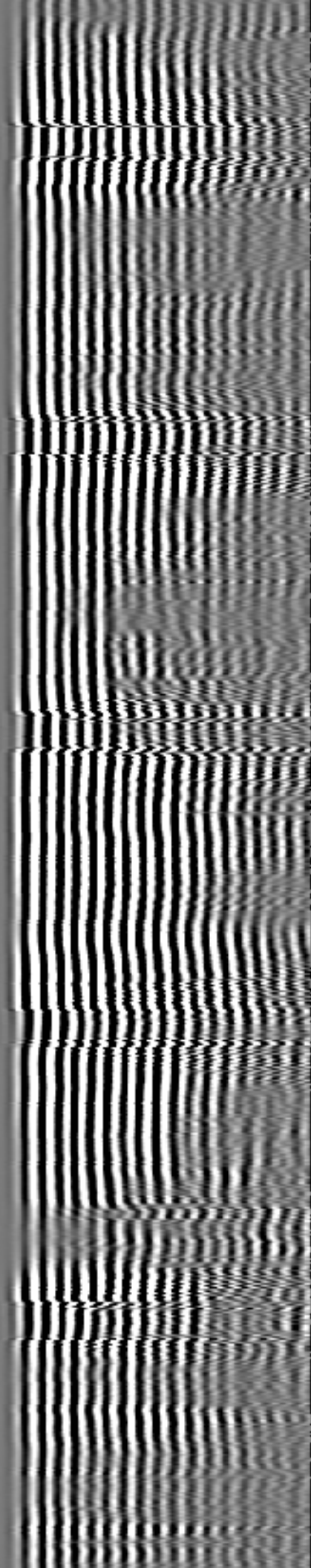
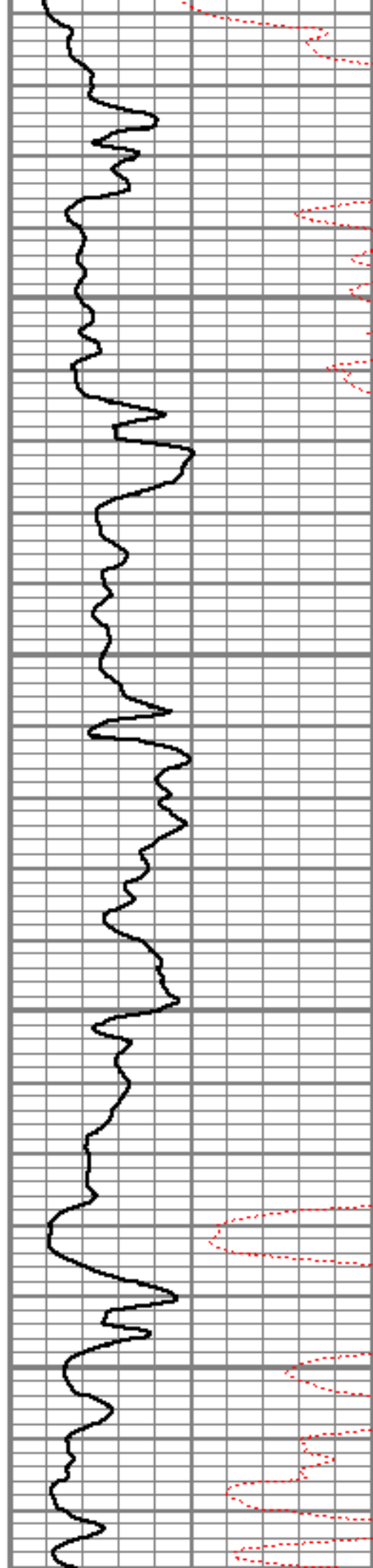


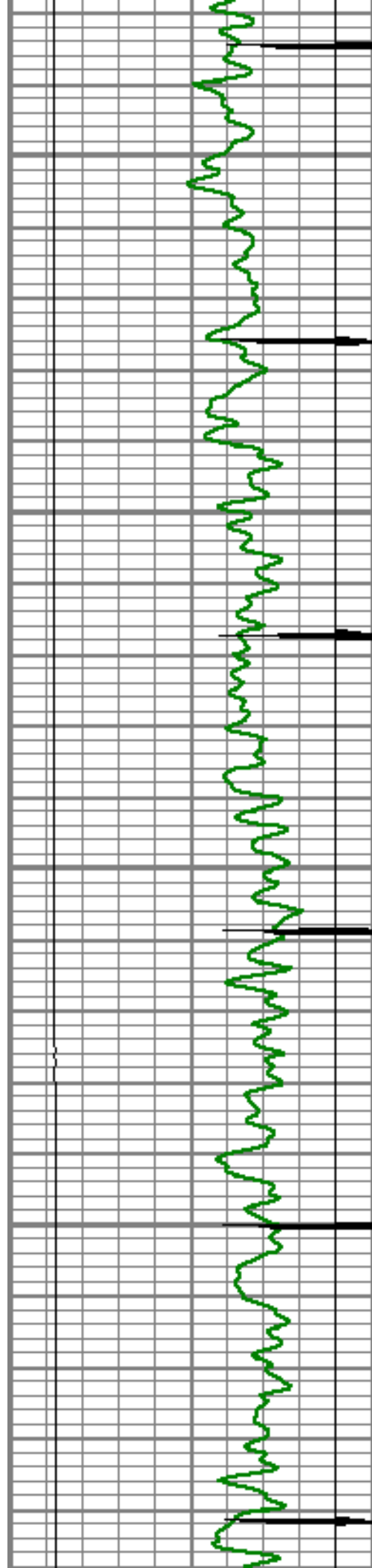
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3200

3250

3300



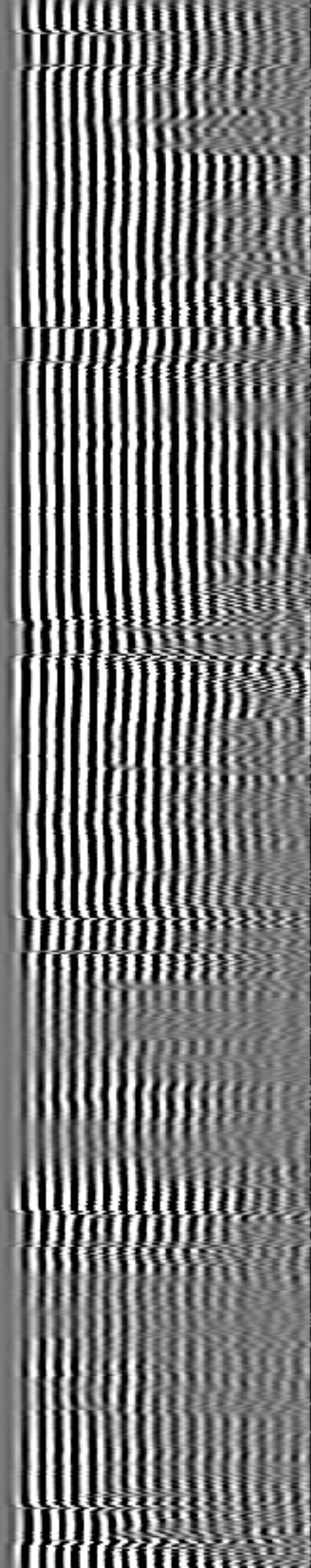
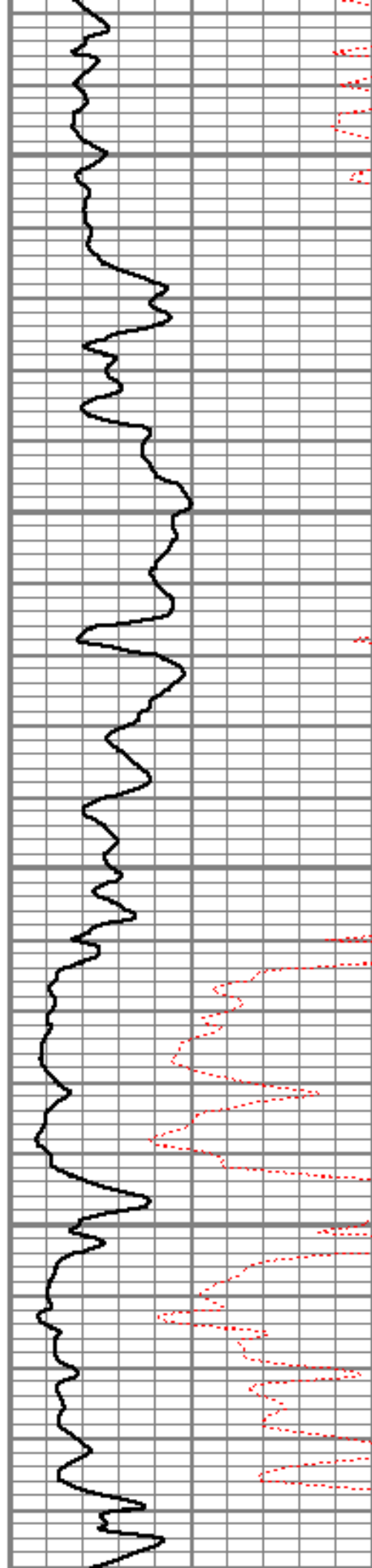


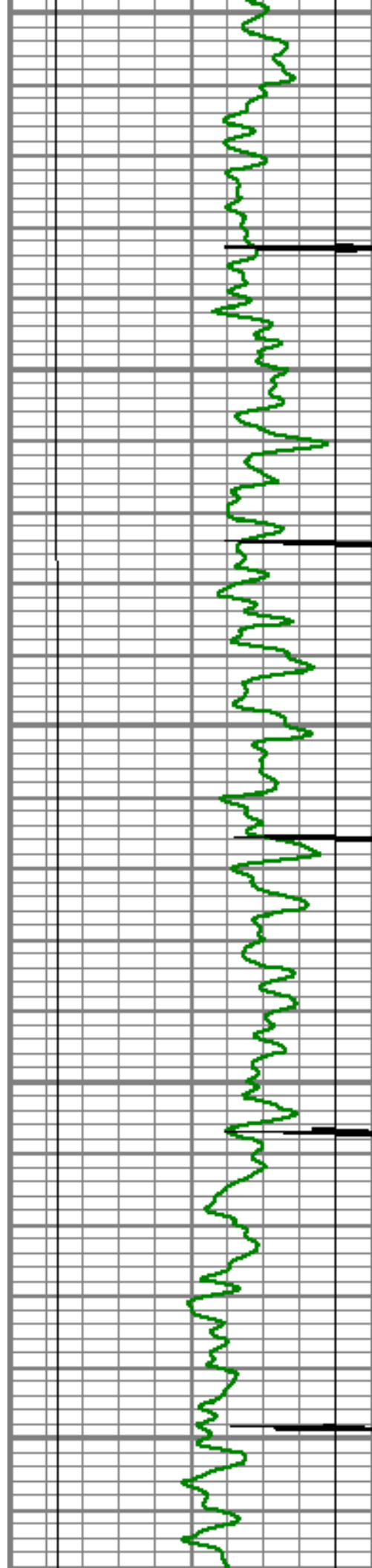
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3500





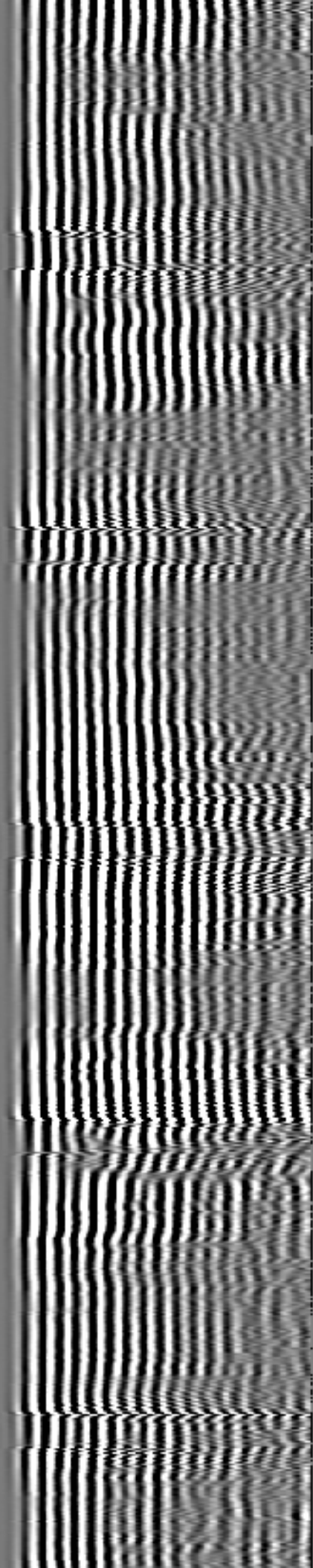
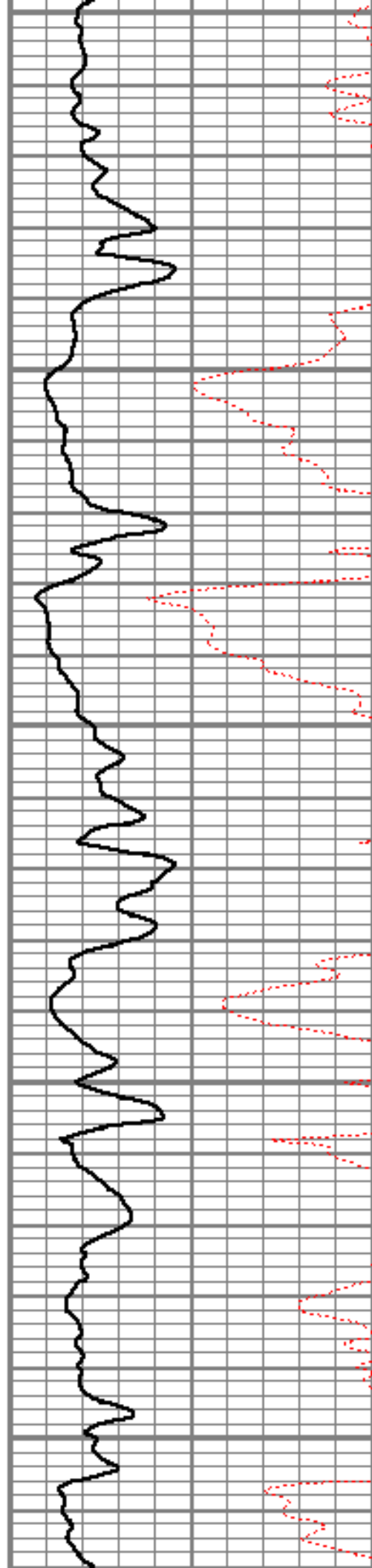
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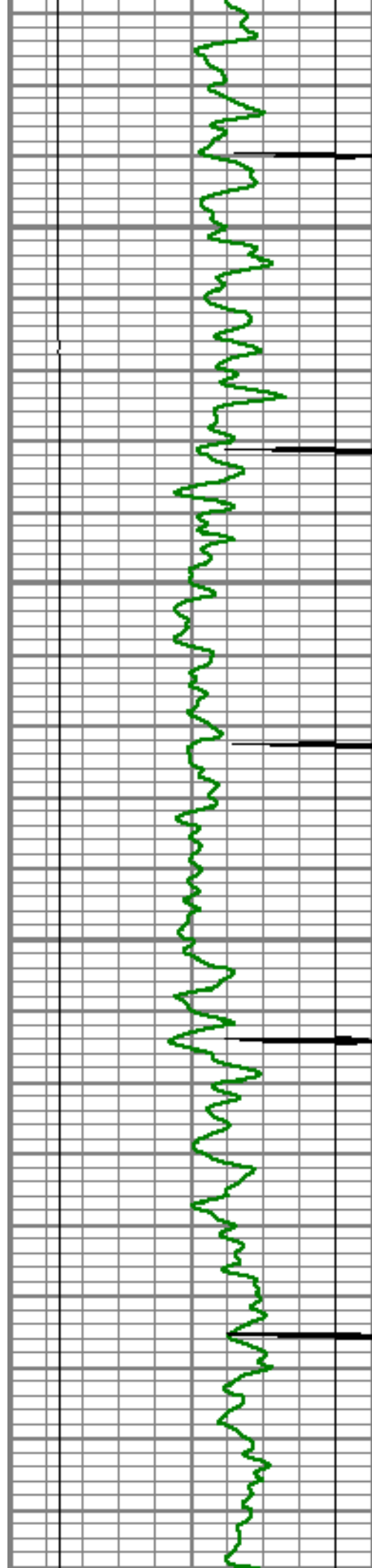
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3750



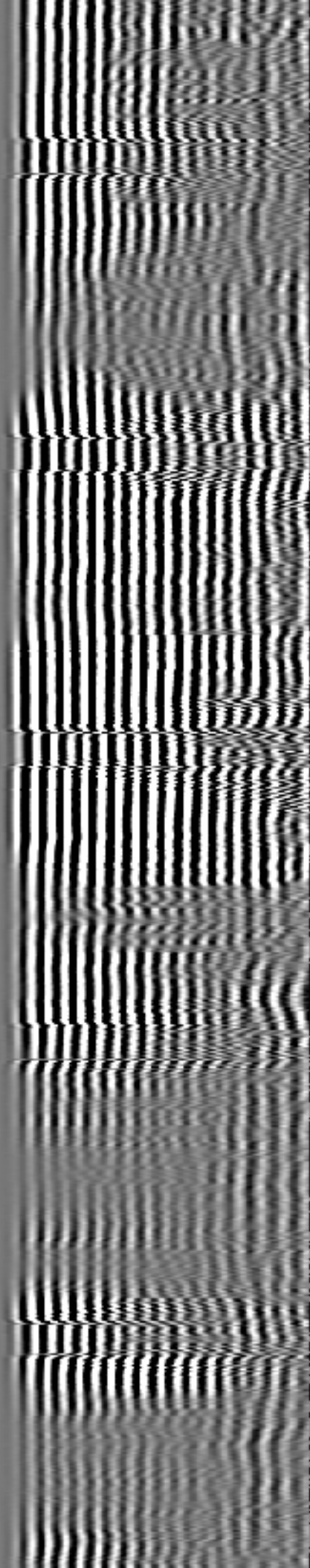
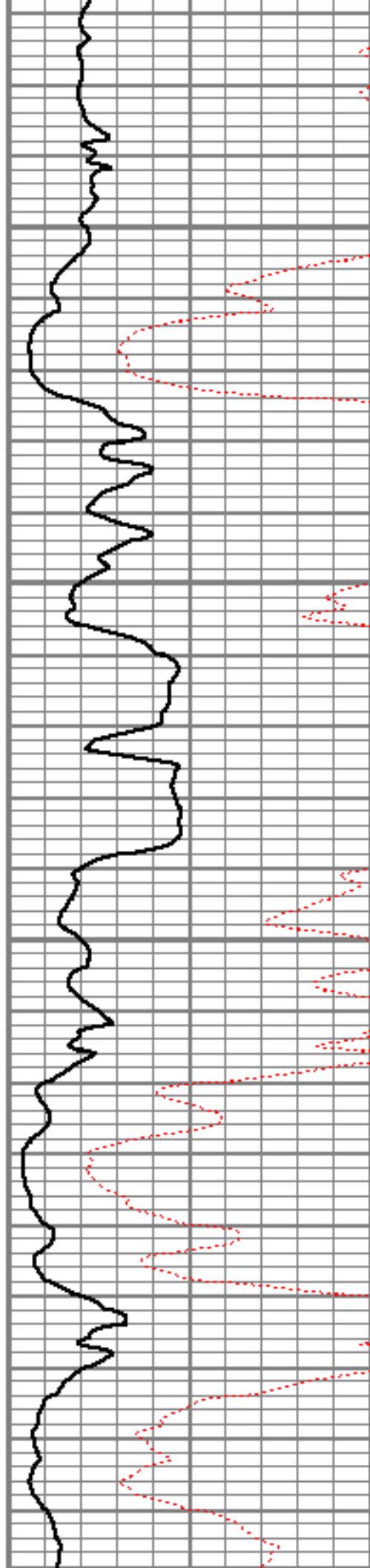


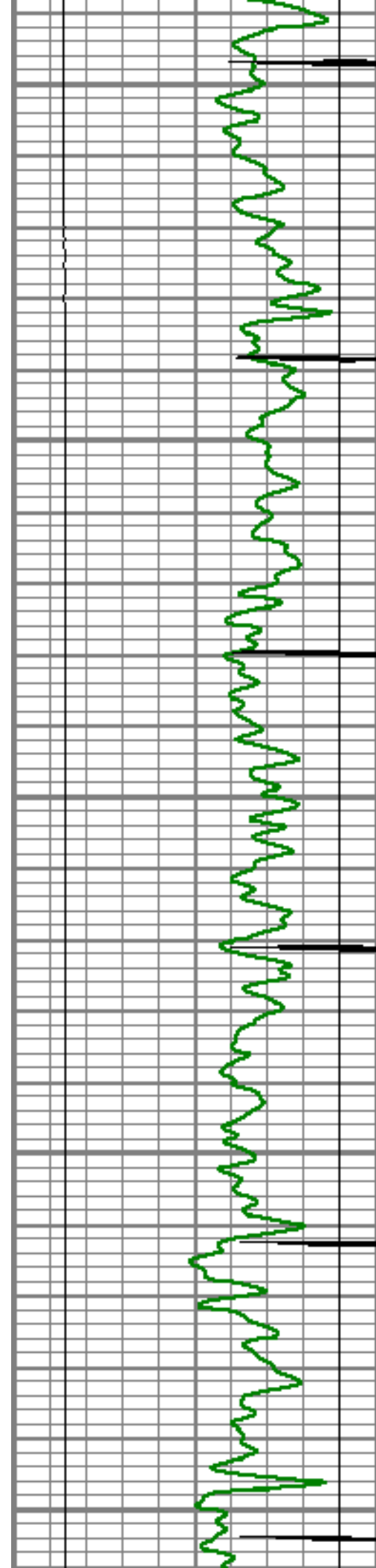
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3850

3900

3950





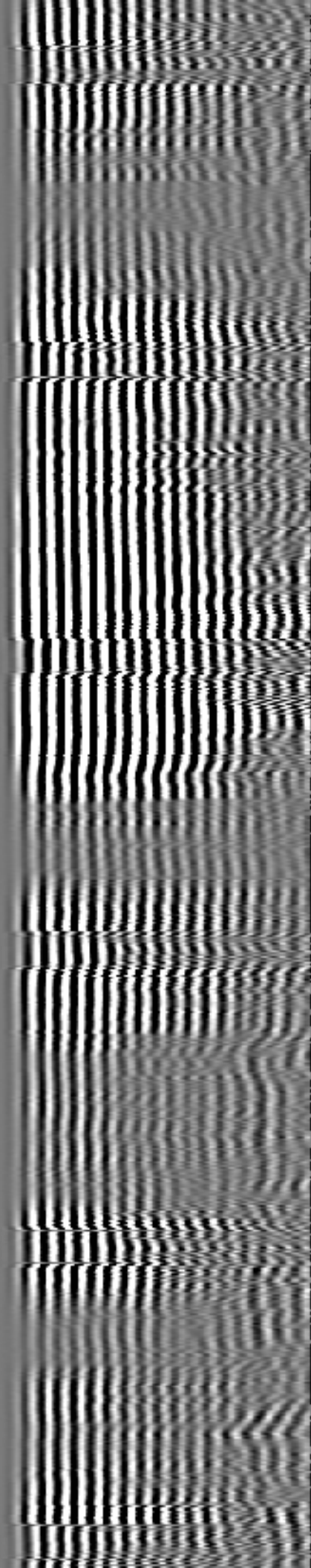
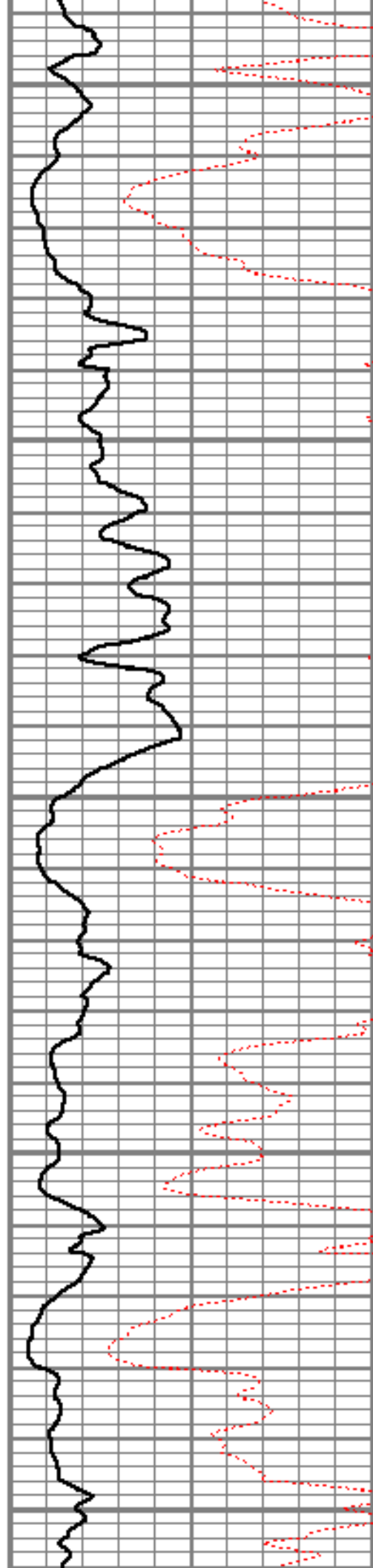
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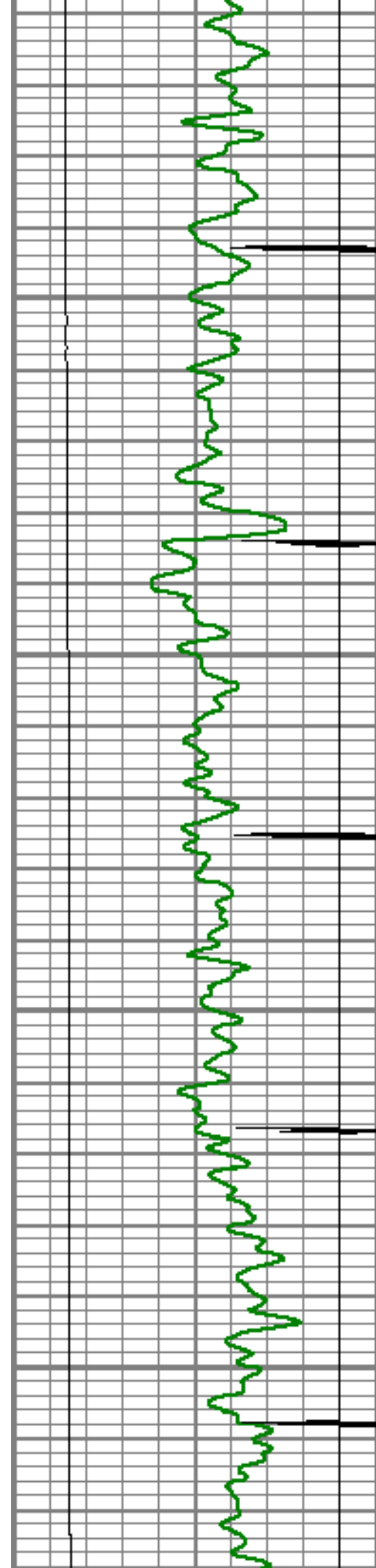
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4150

4200



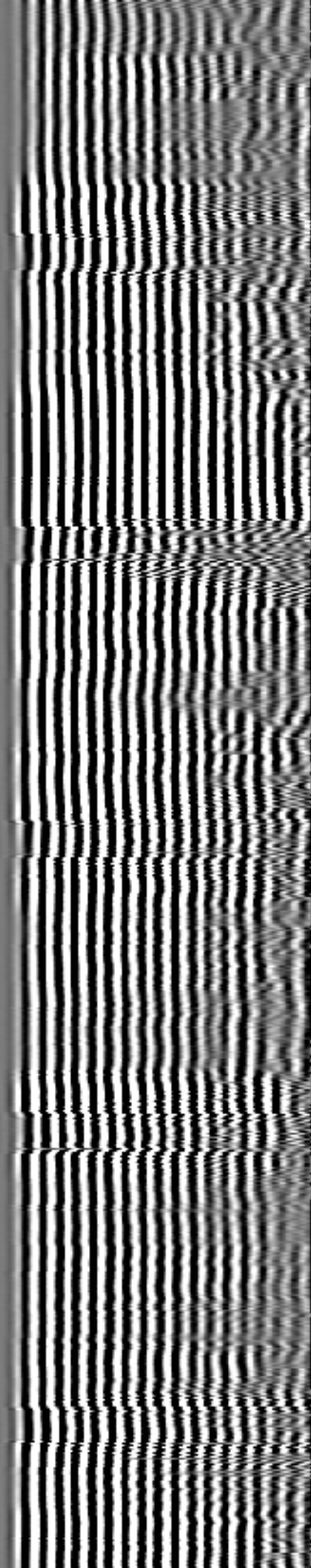
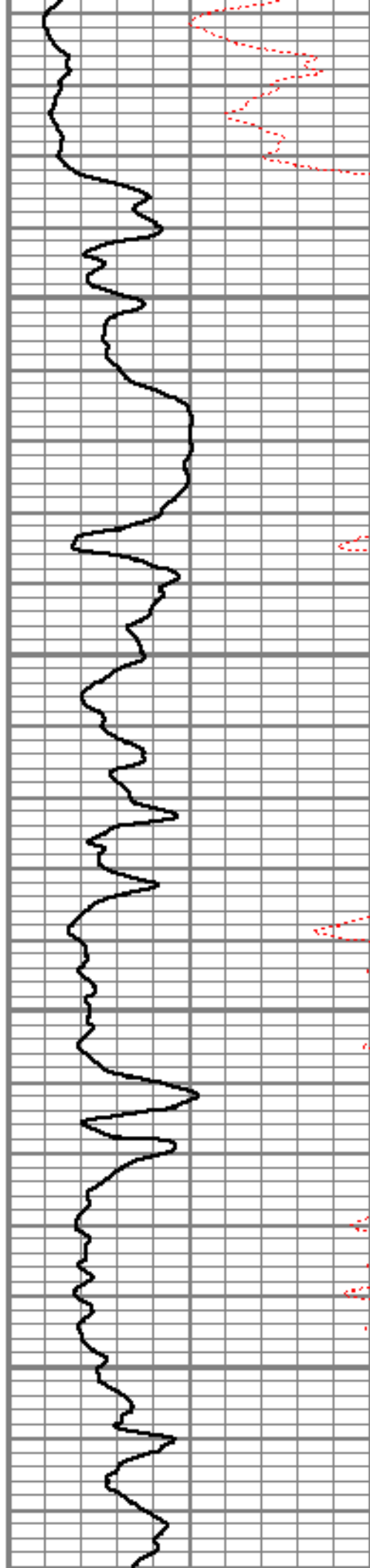


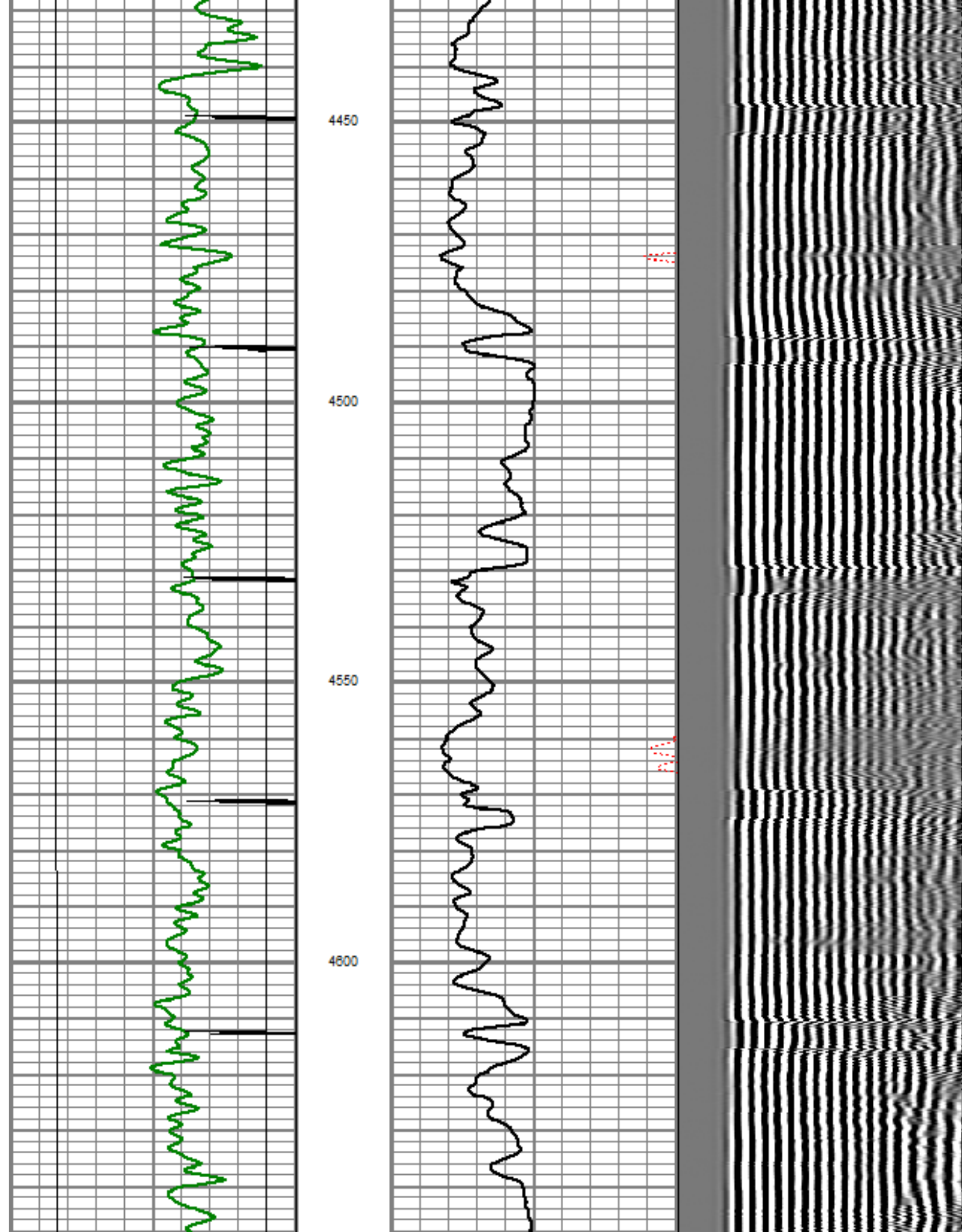
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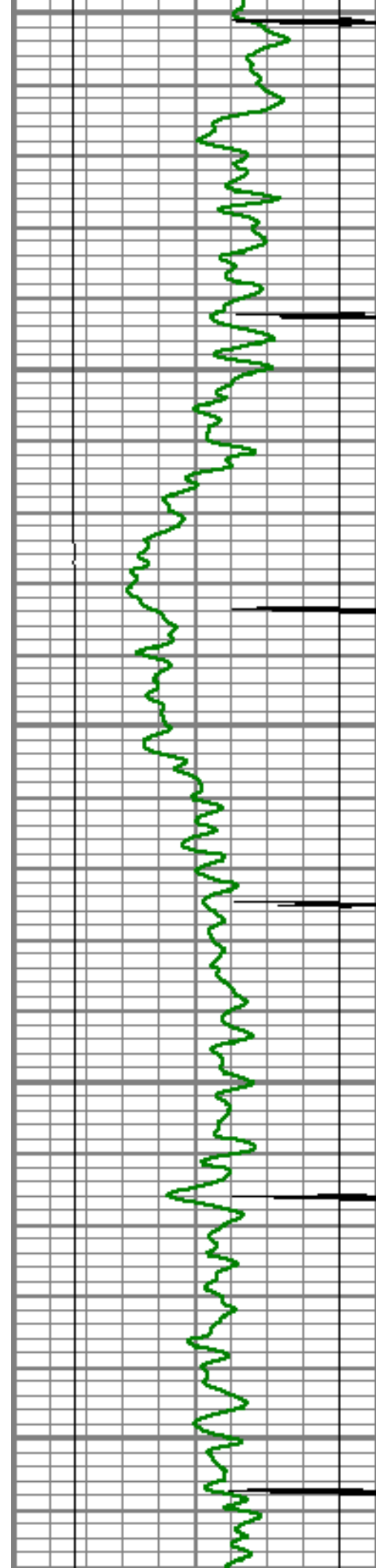
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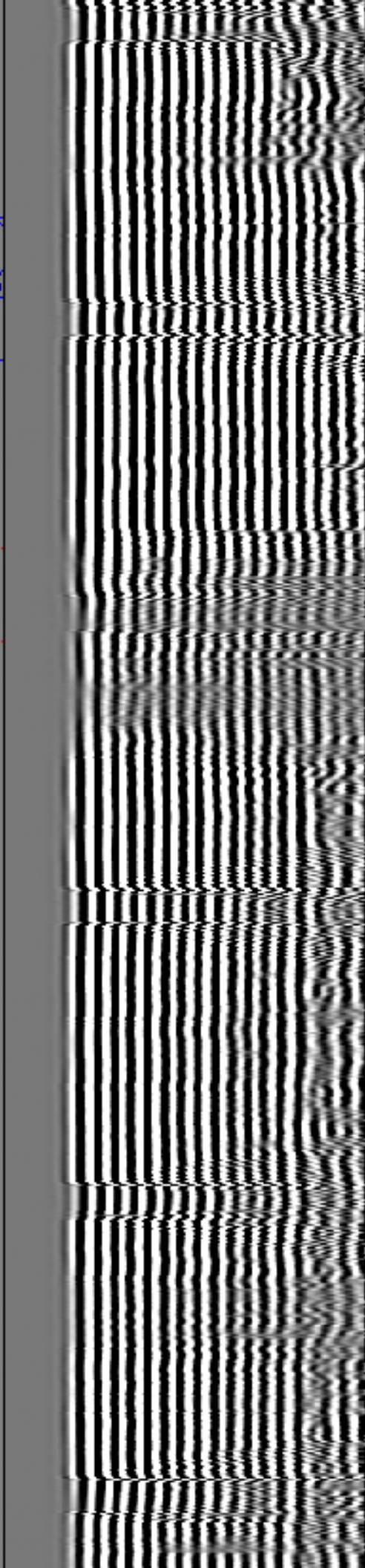
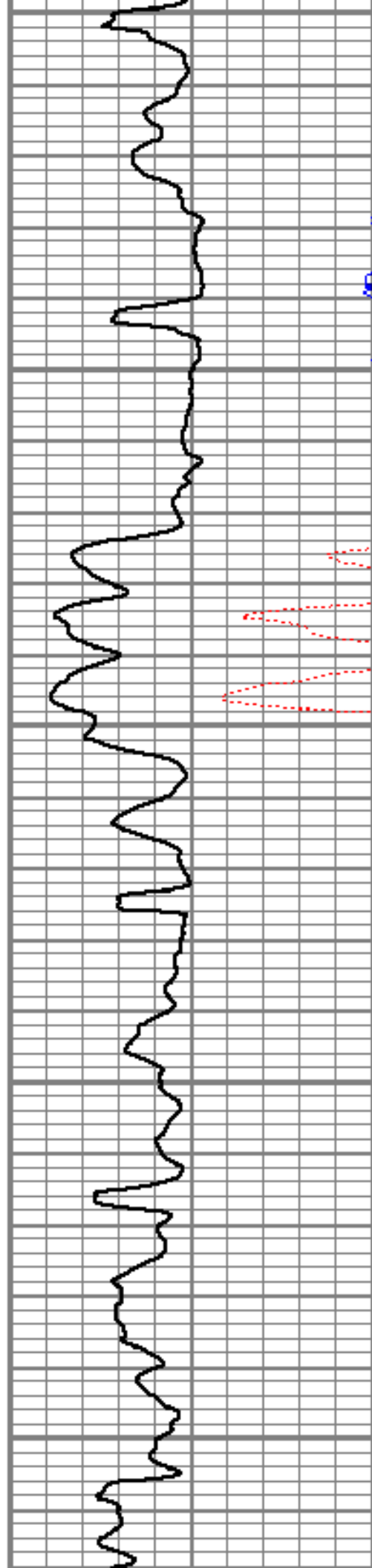
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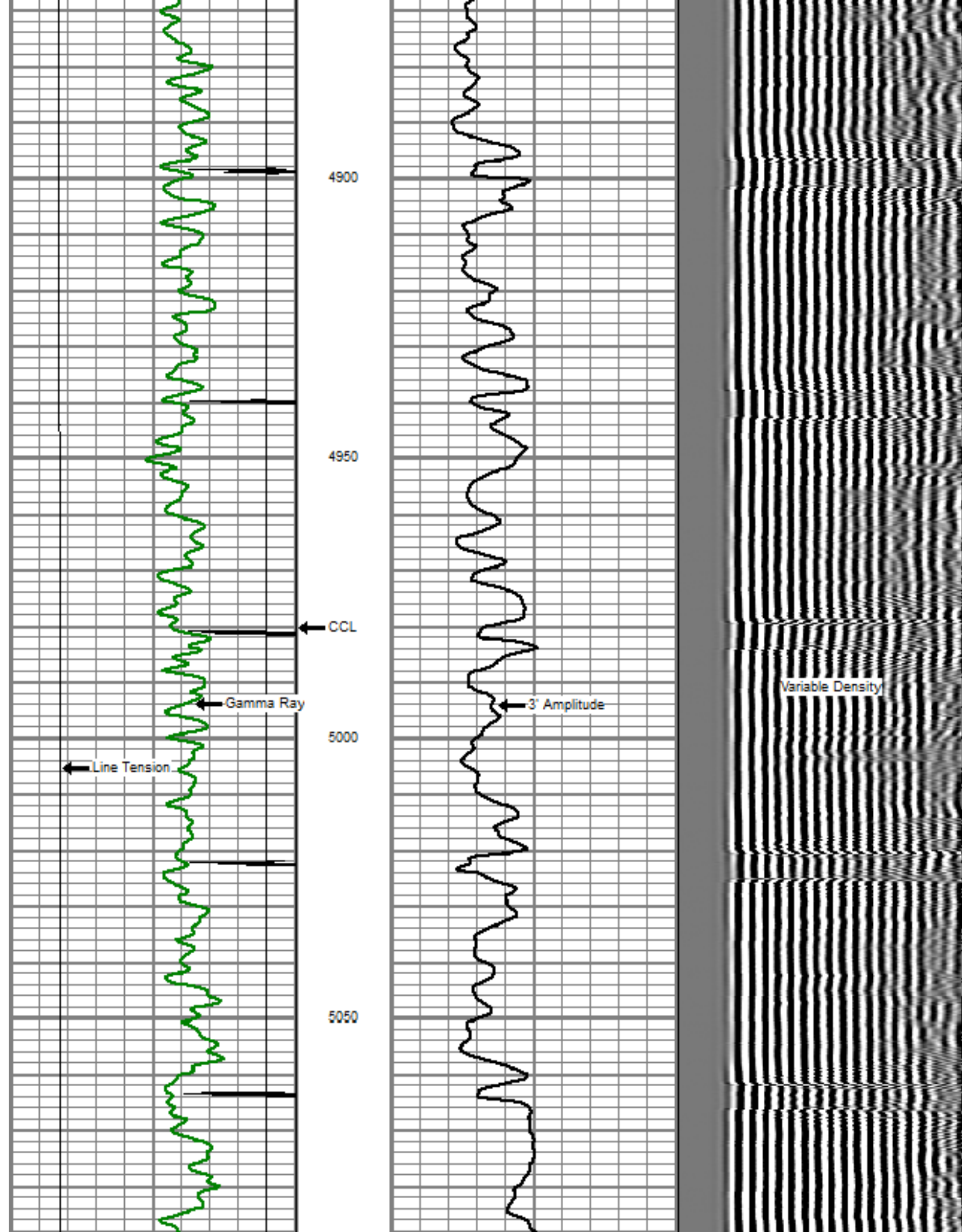
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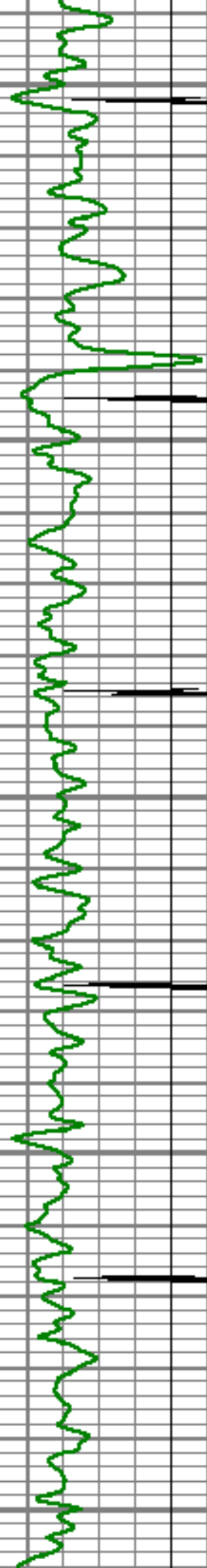
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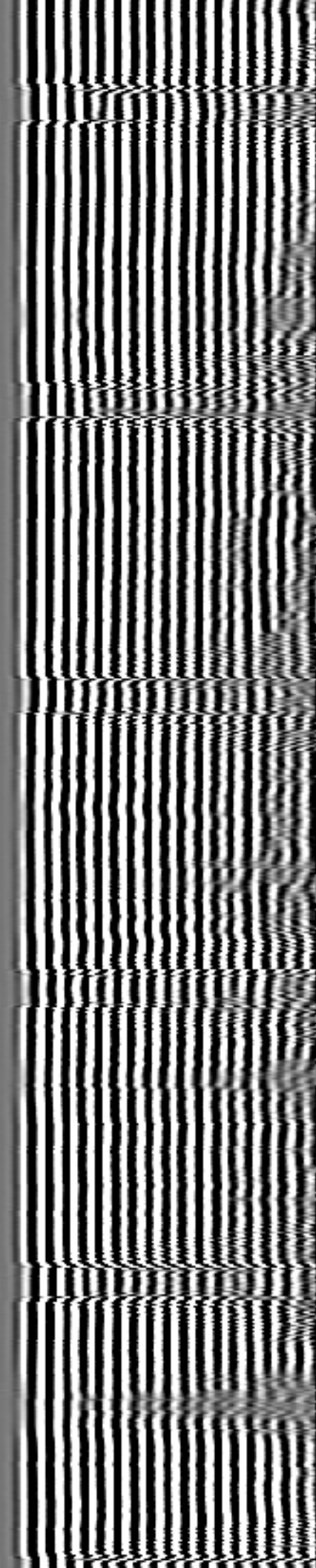
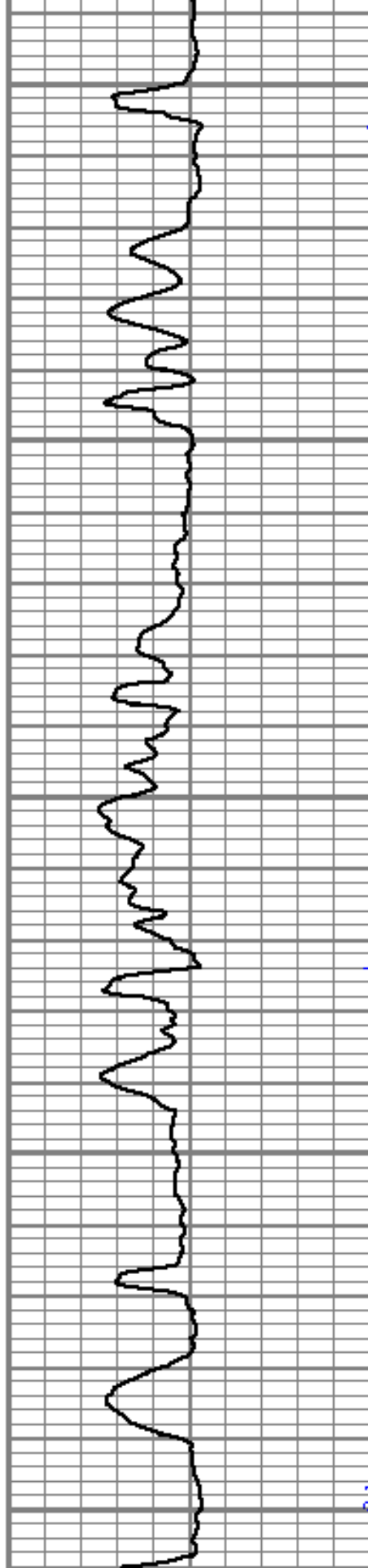
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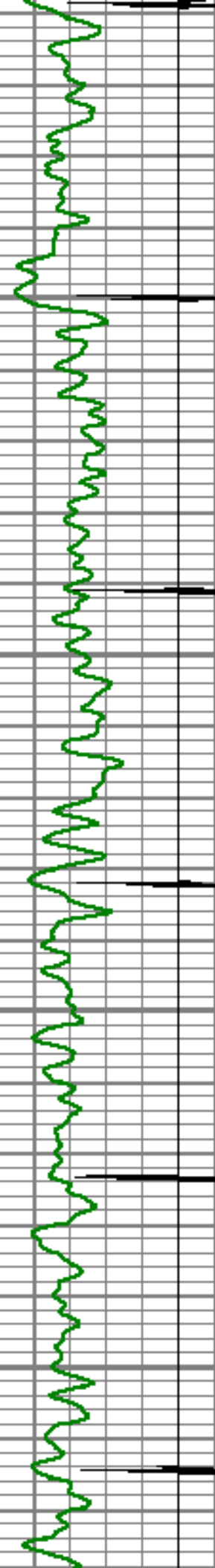
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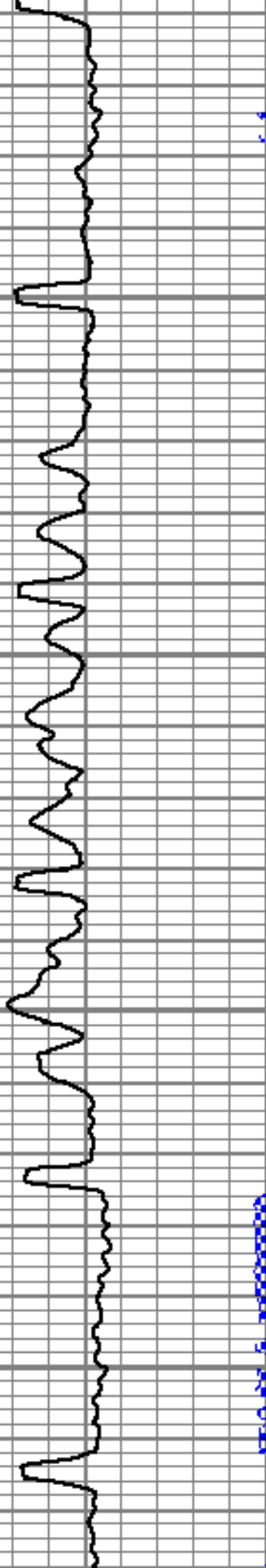


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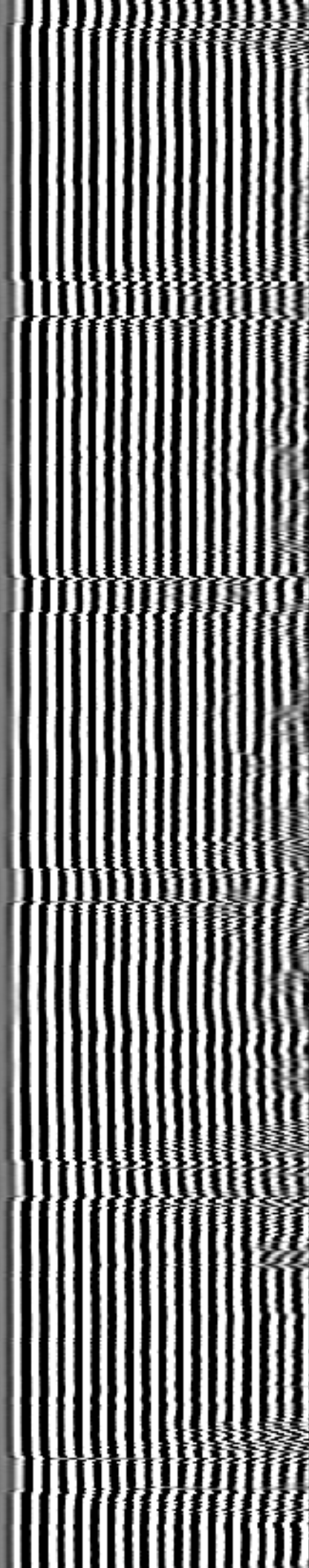
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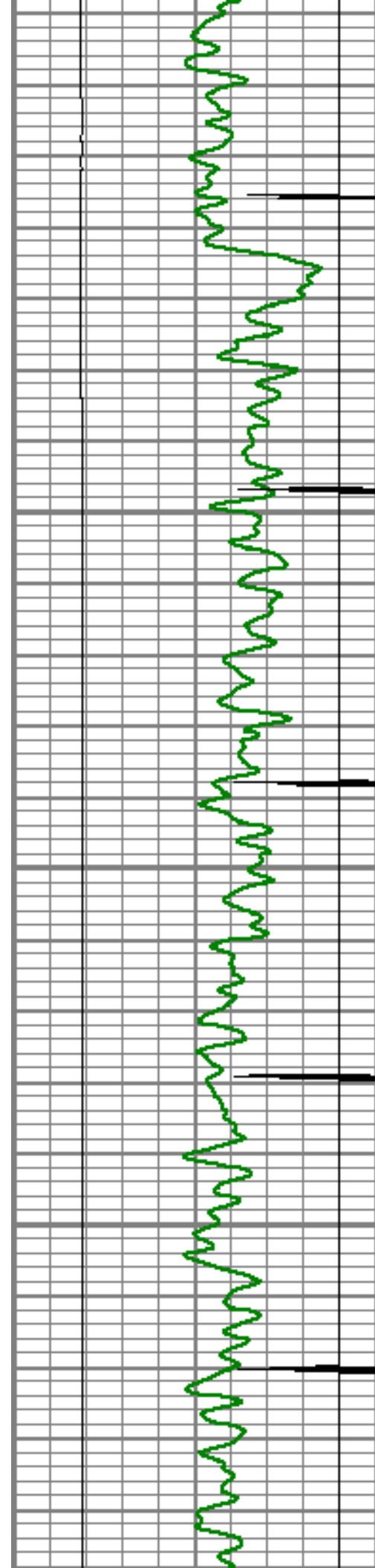
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5350 5400 5450 5500



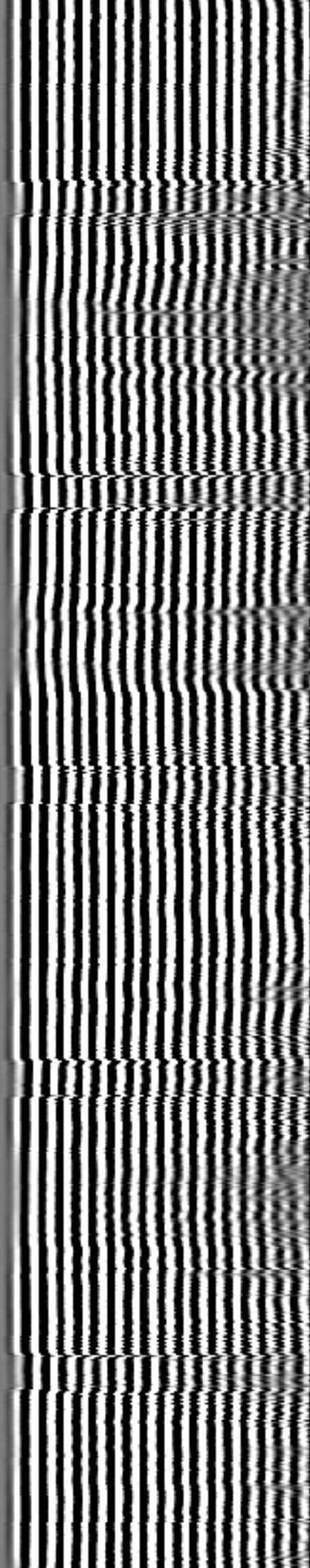
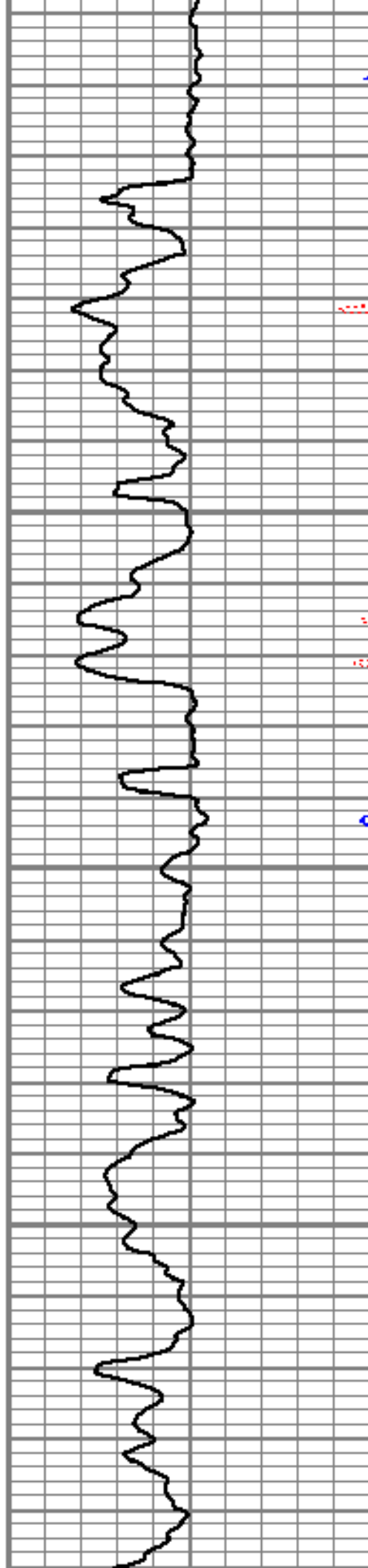


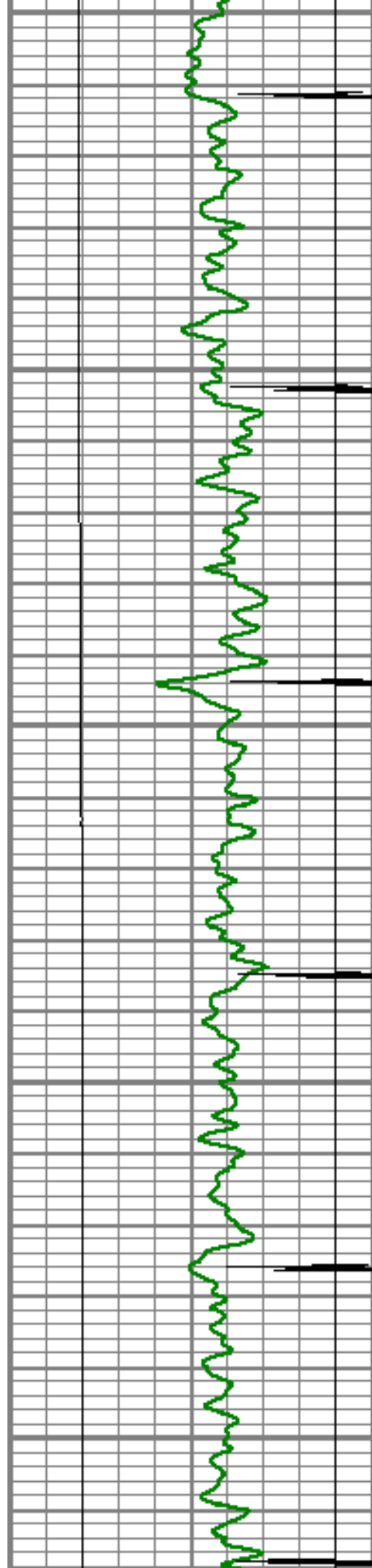
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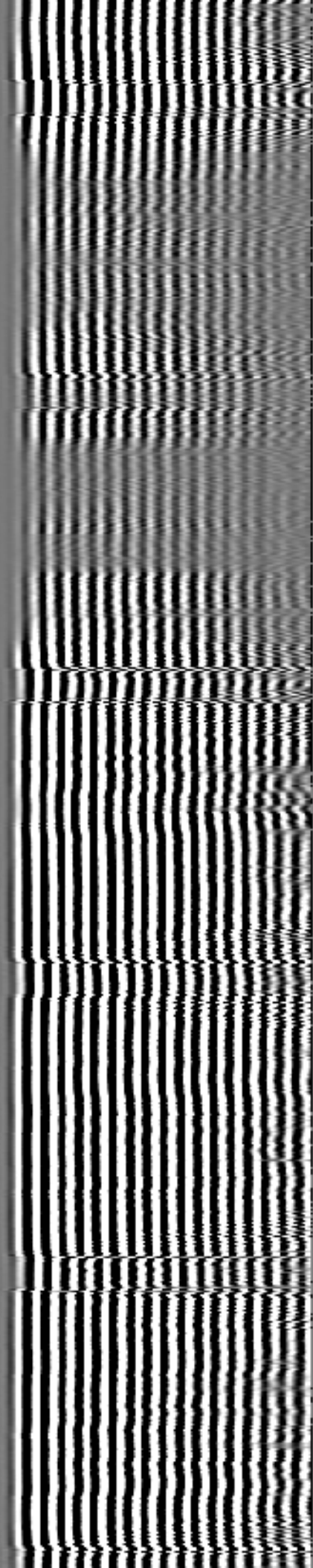
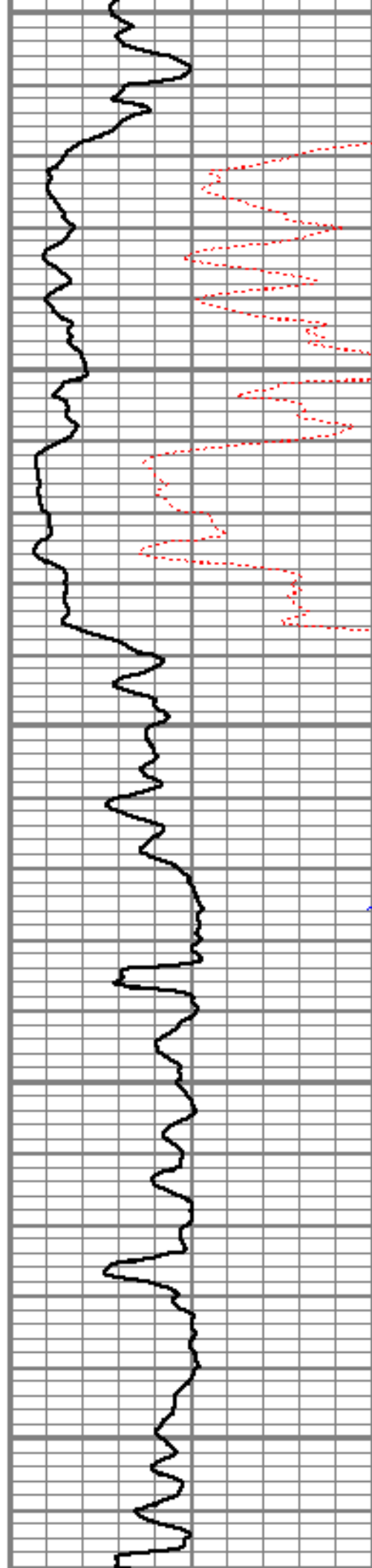
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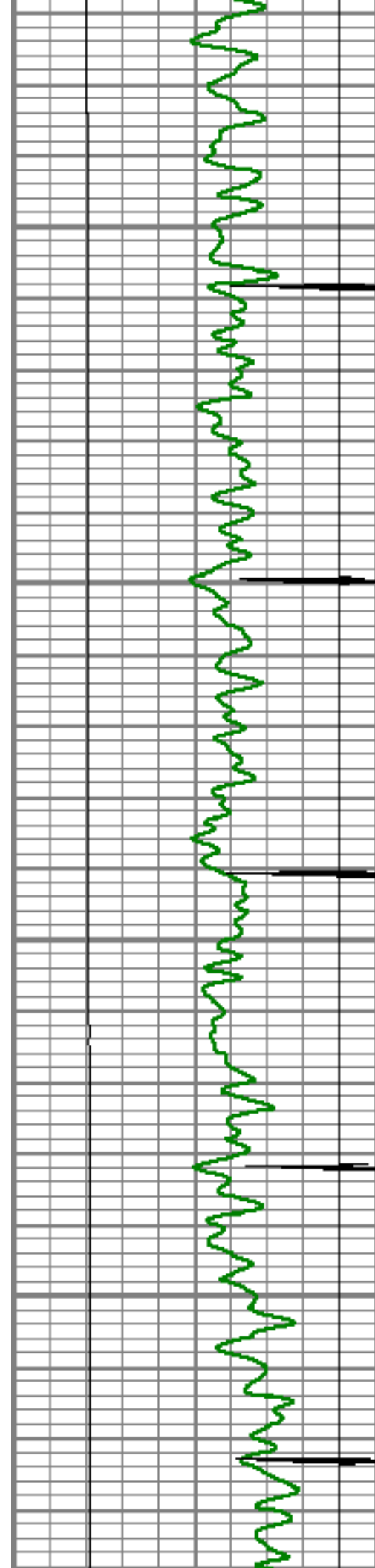
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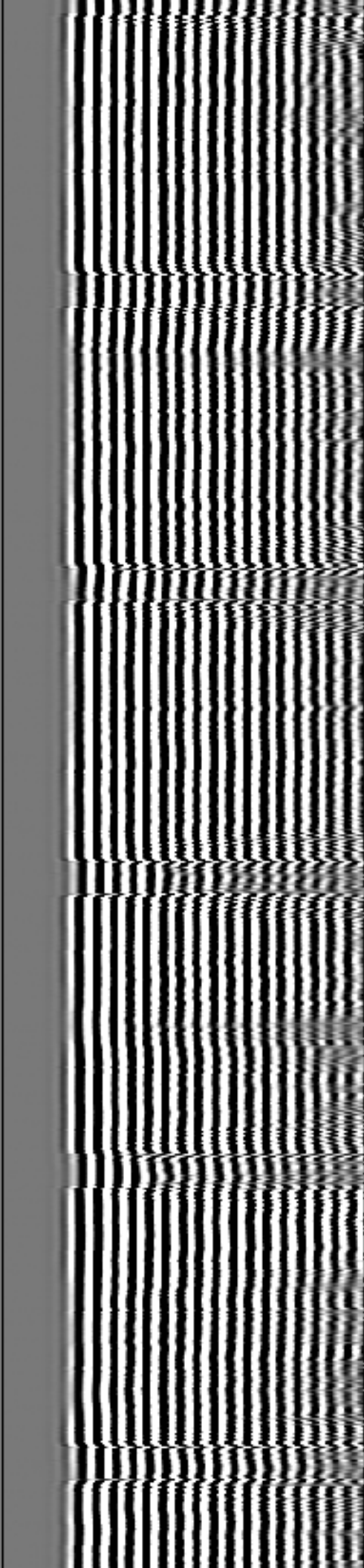
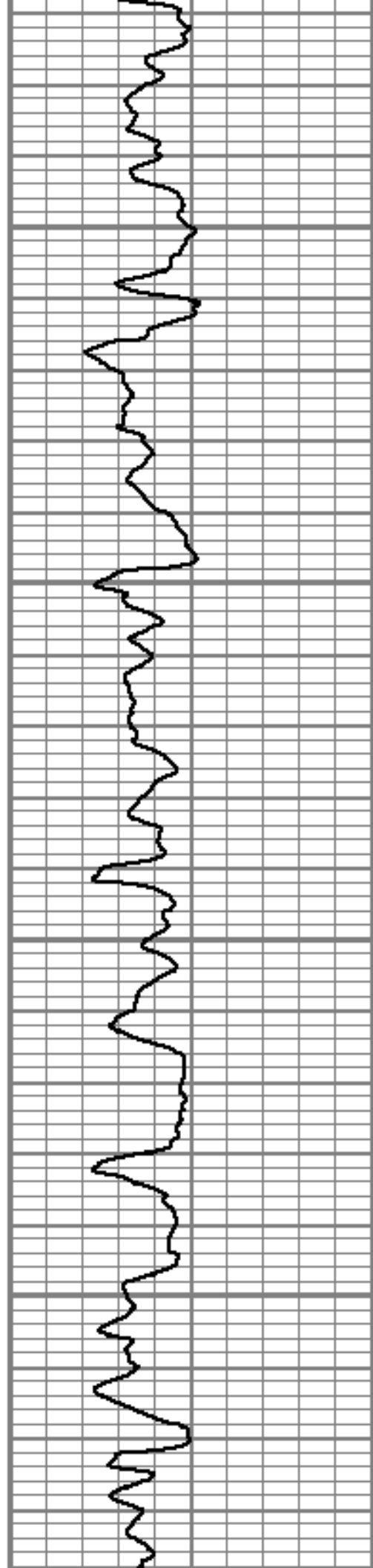


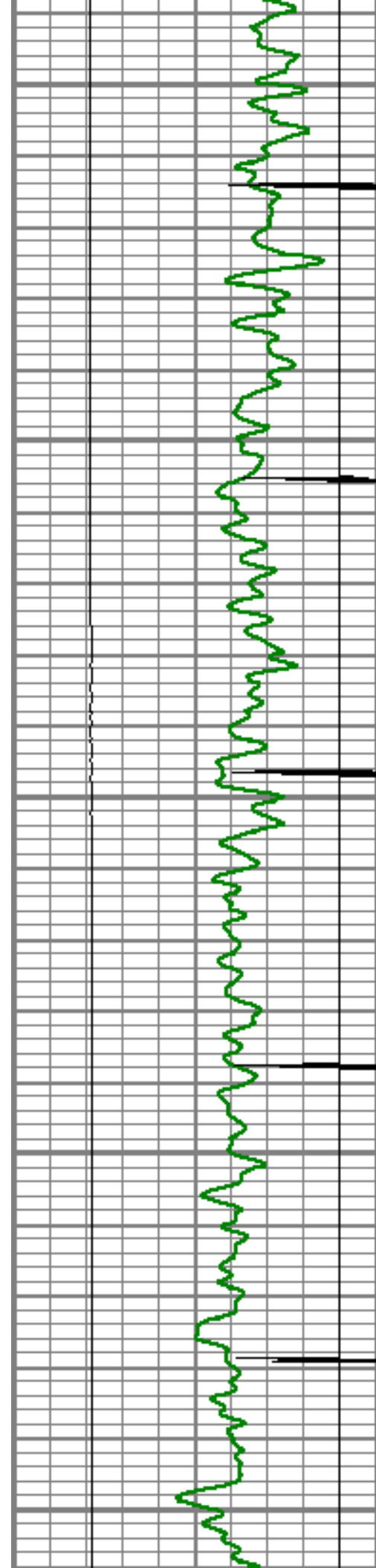
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6050

6100

6150





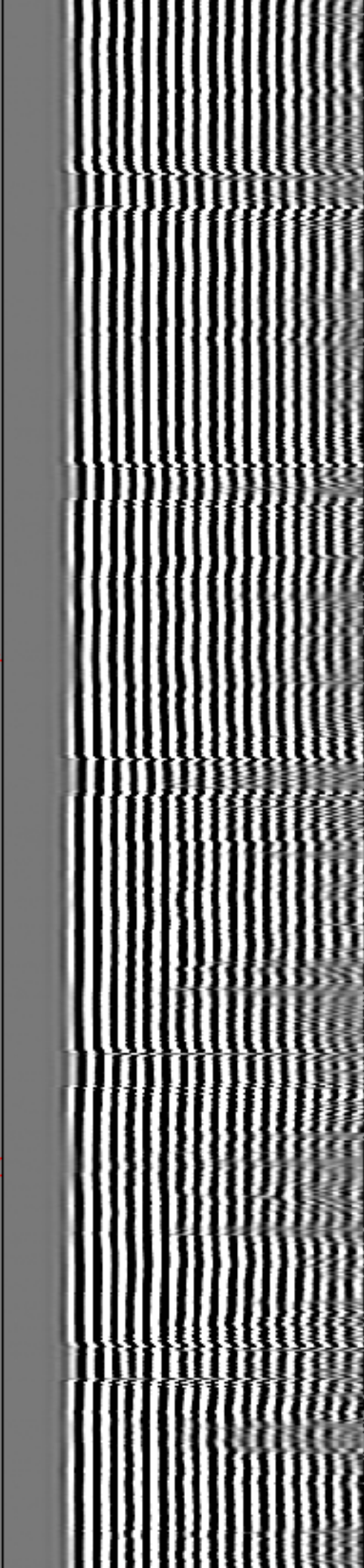
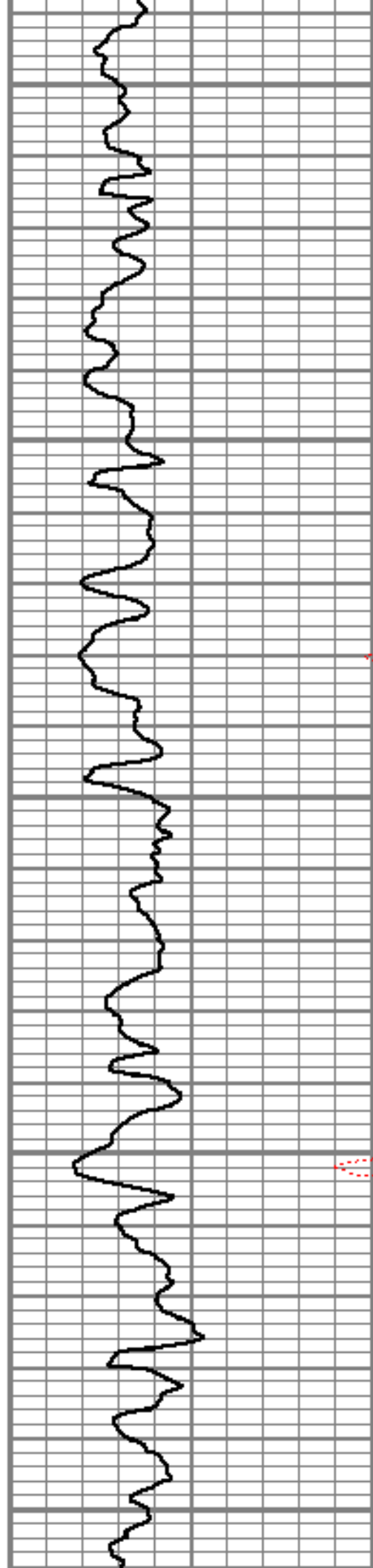
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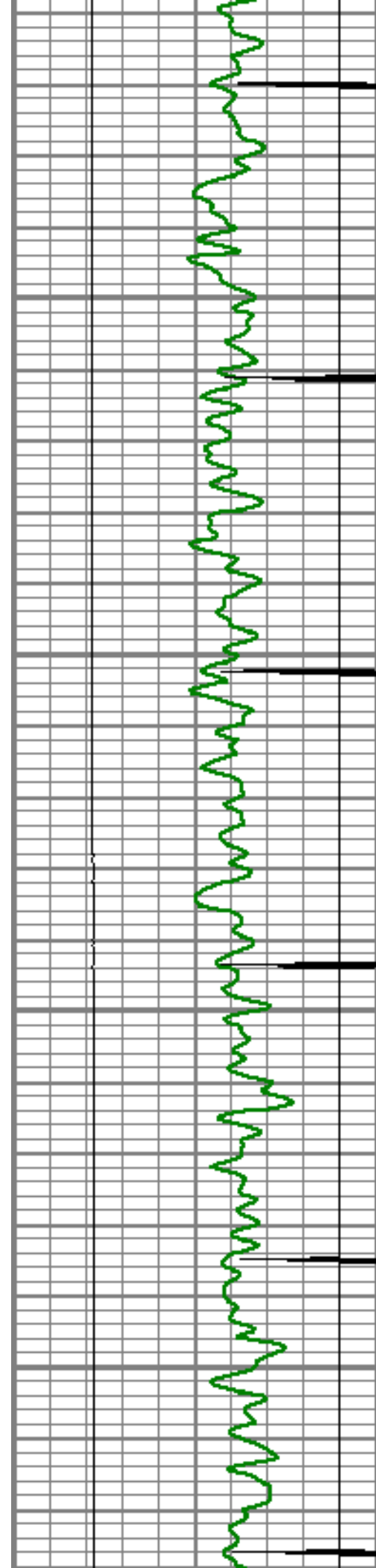
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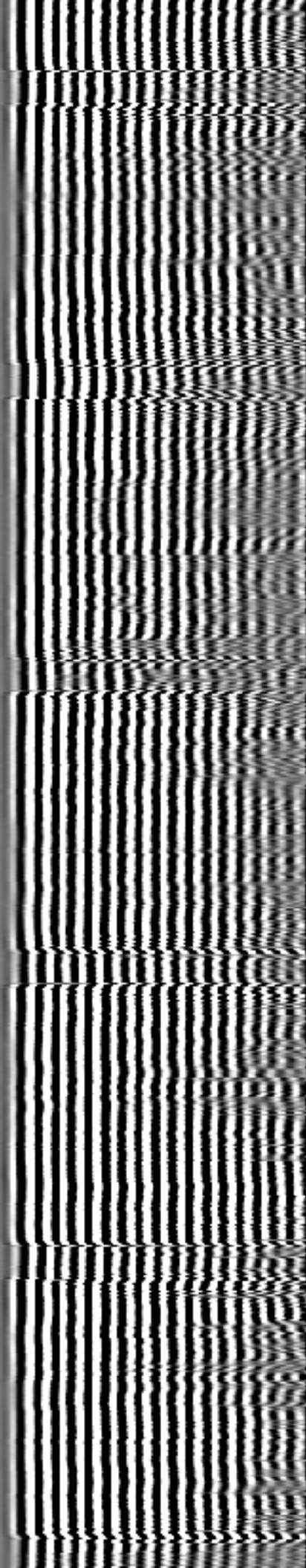
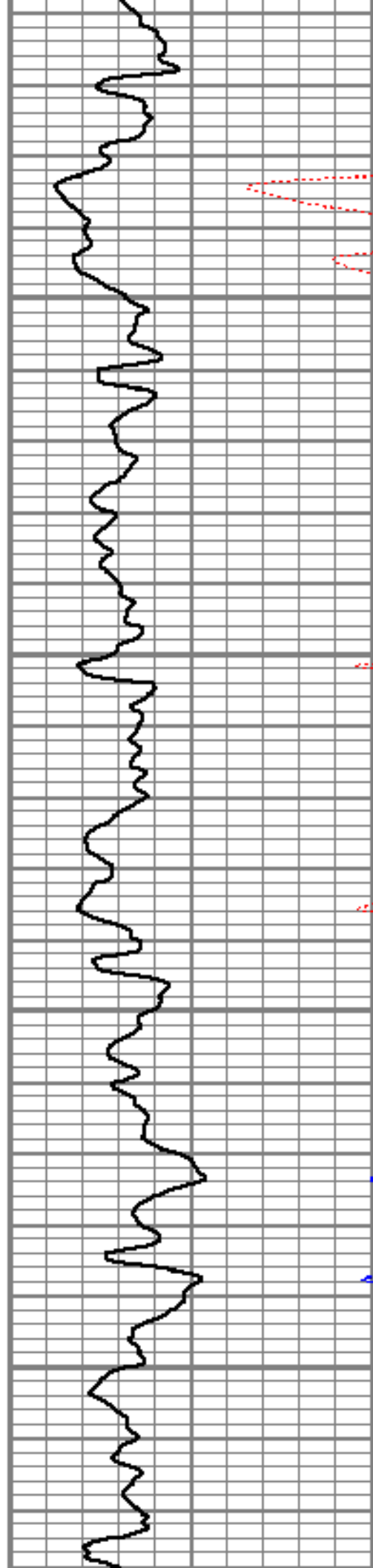


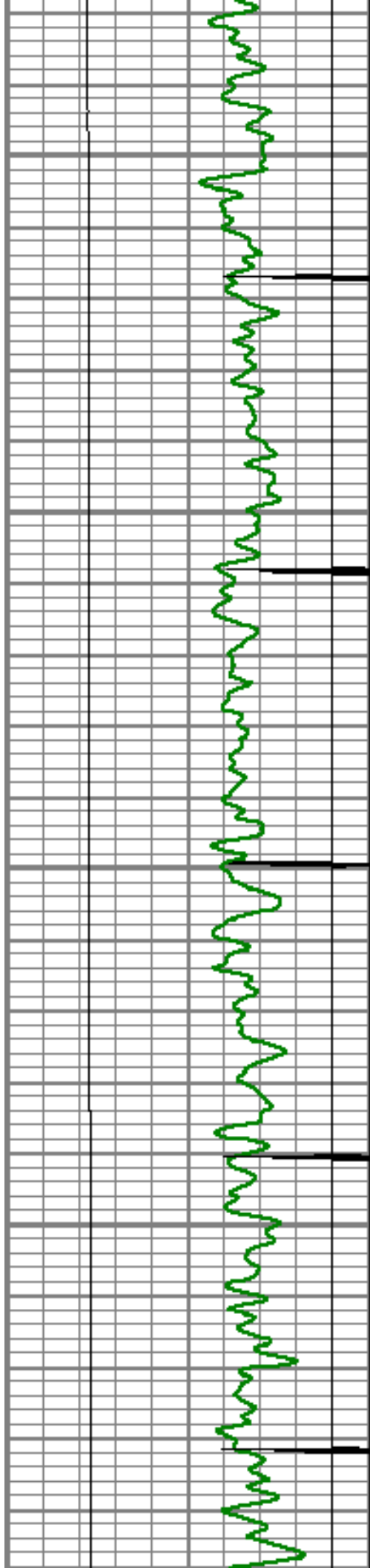
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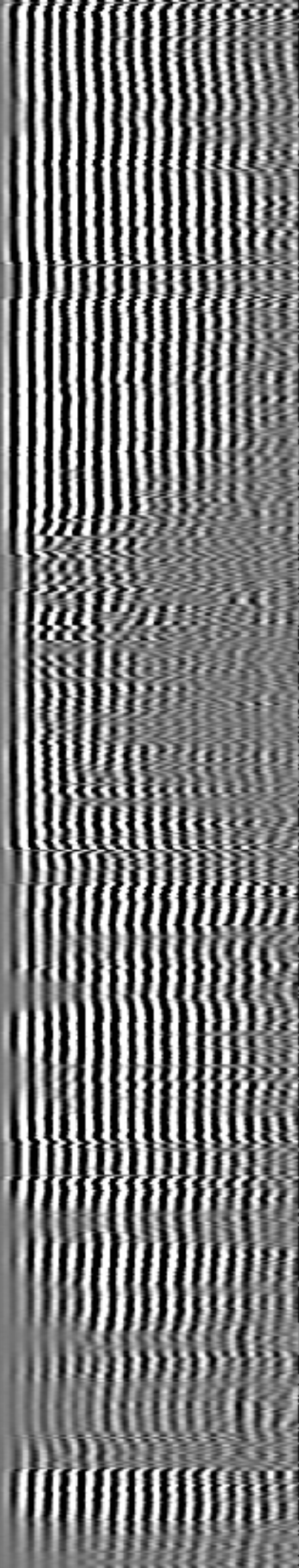
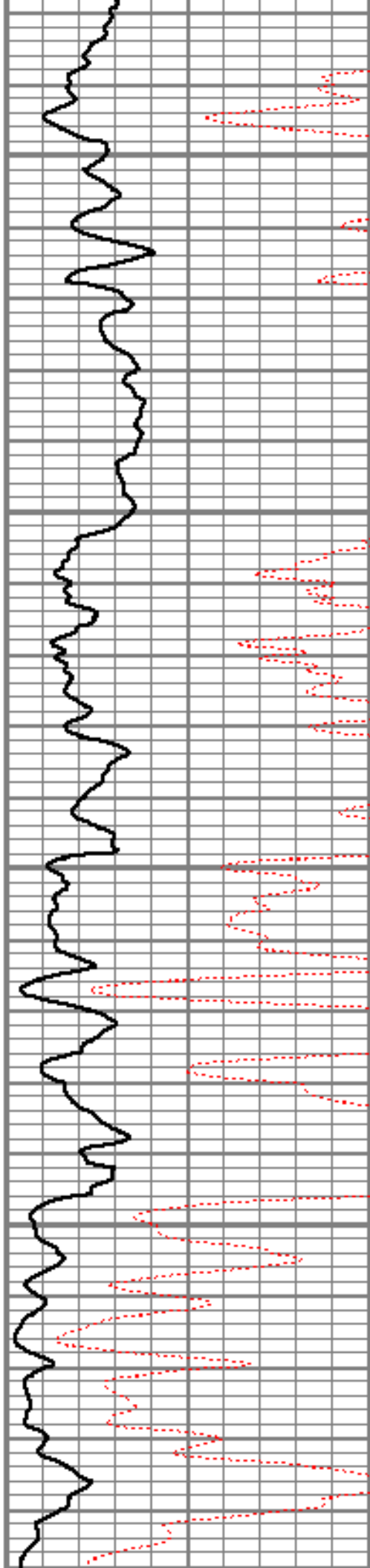


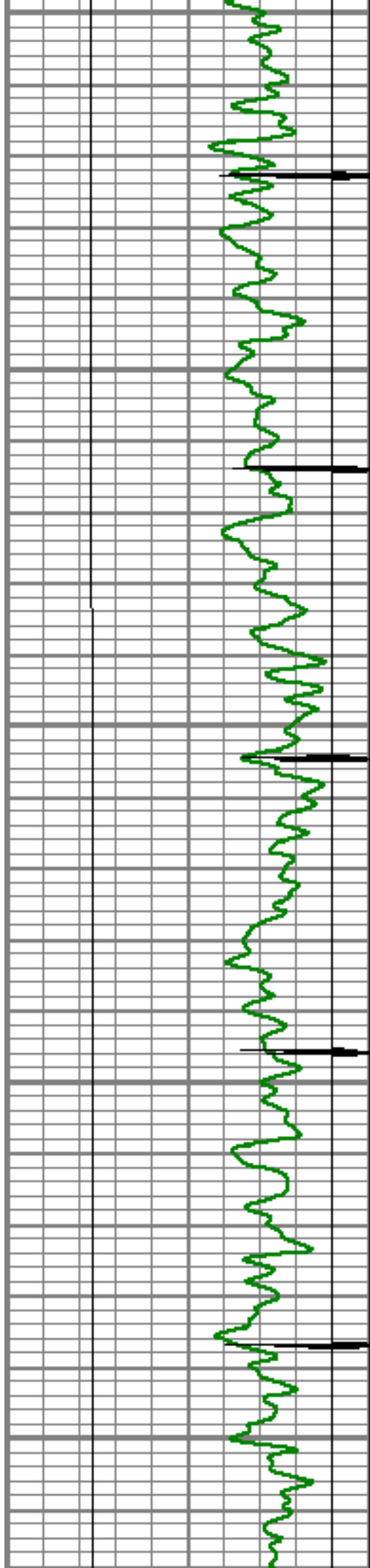
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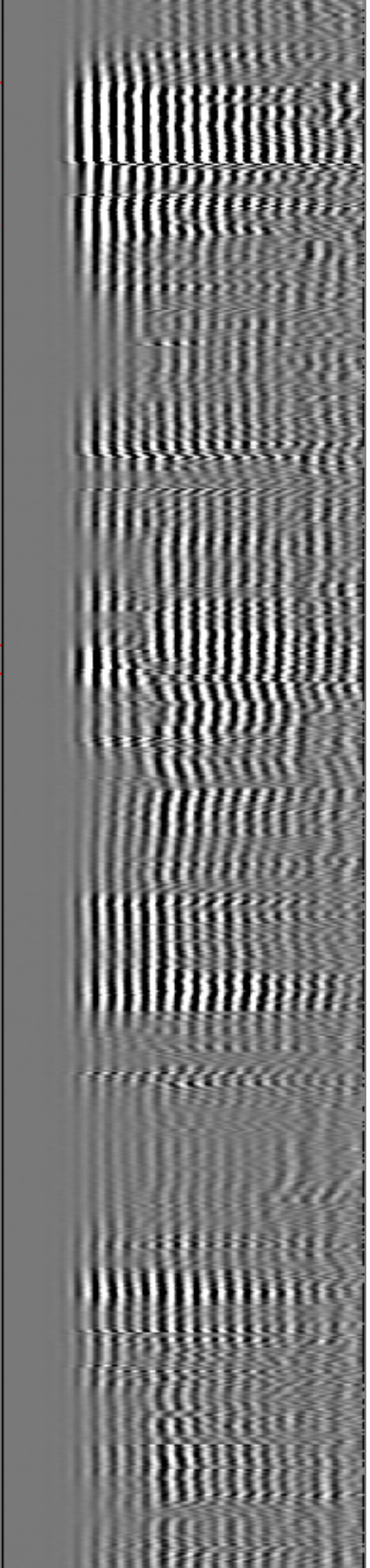
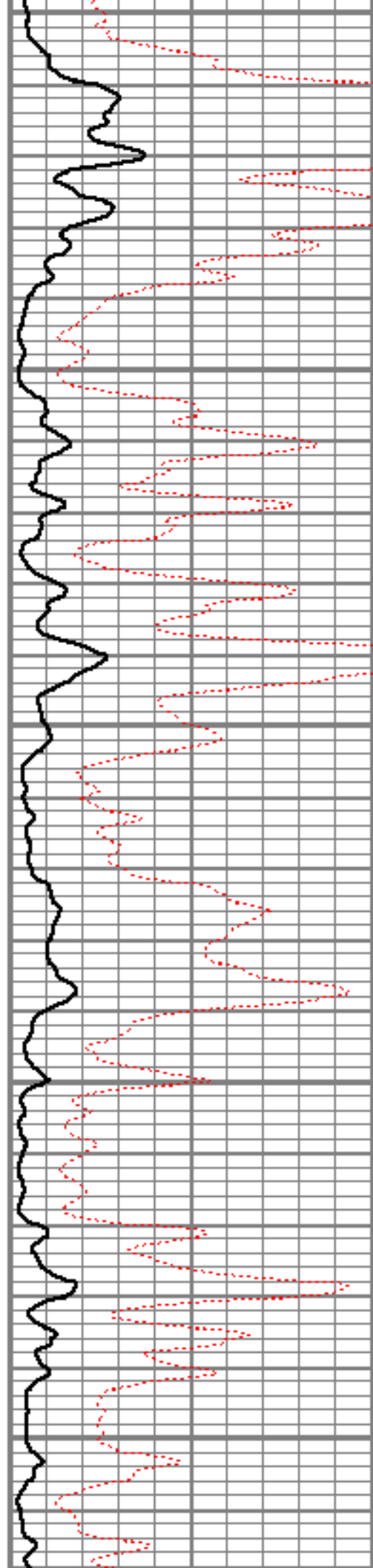
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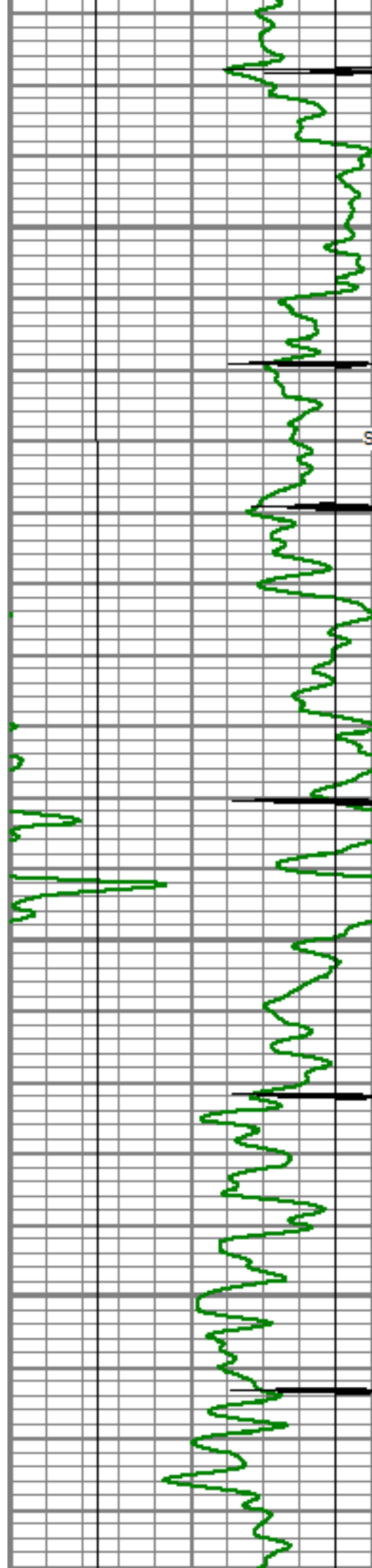
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7050





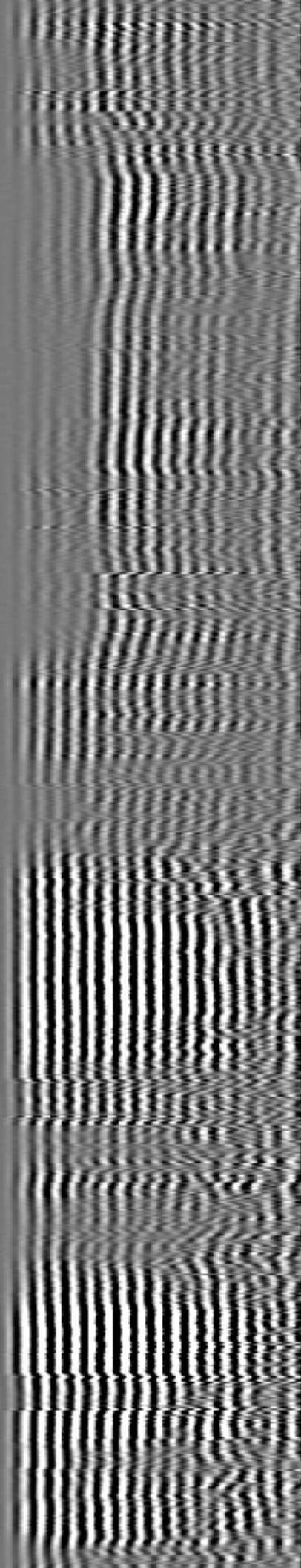
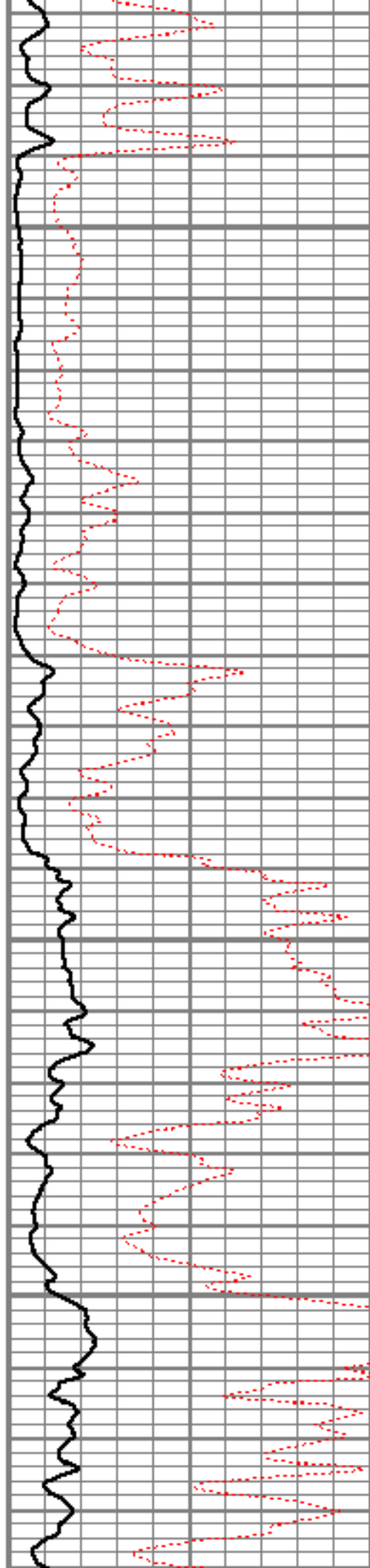
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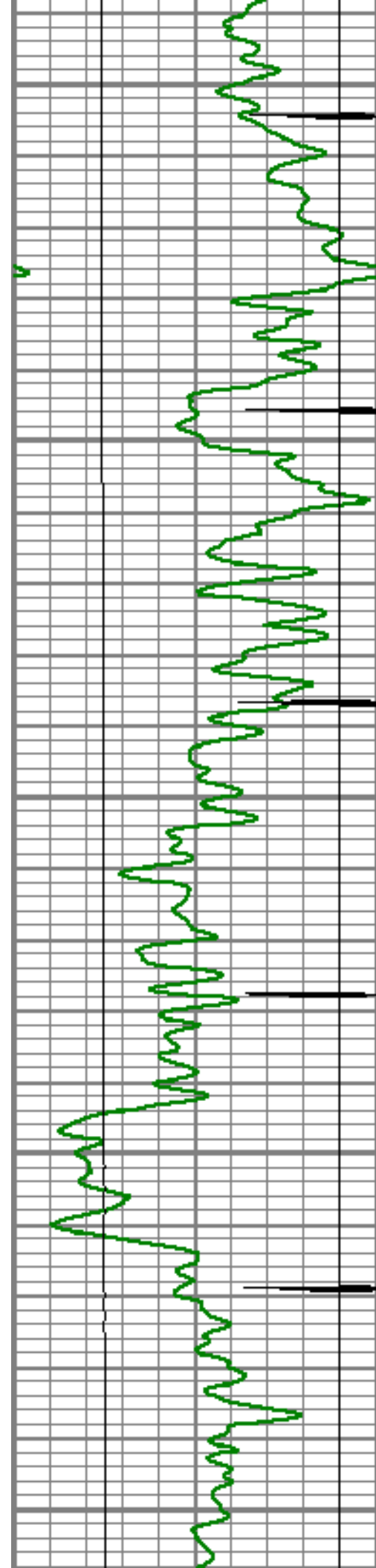
SHORT JOINT

7150

7200

7250





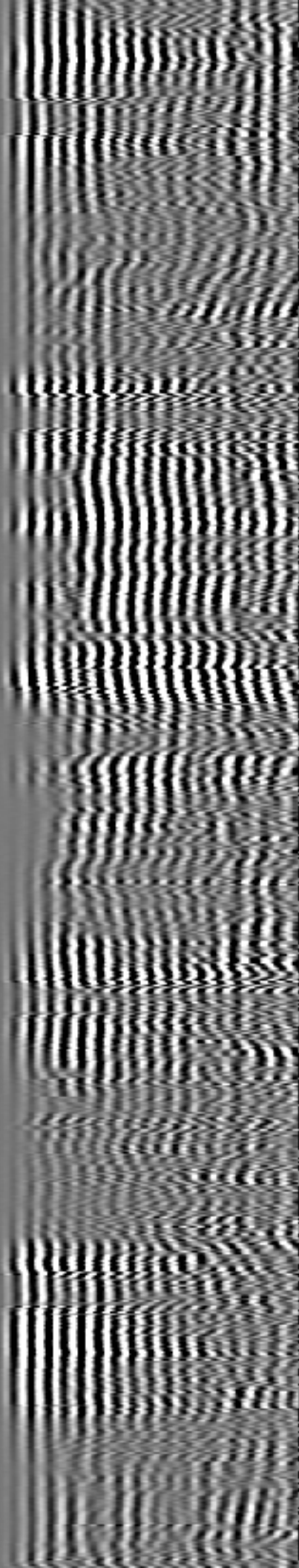
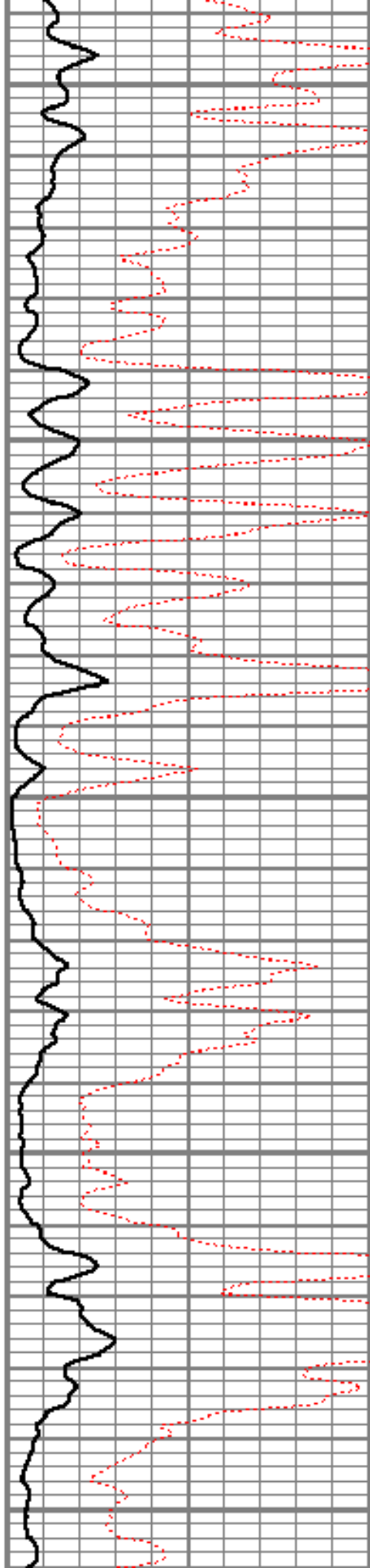
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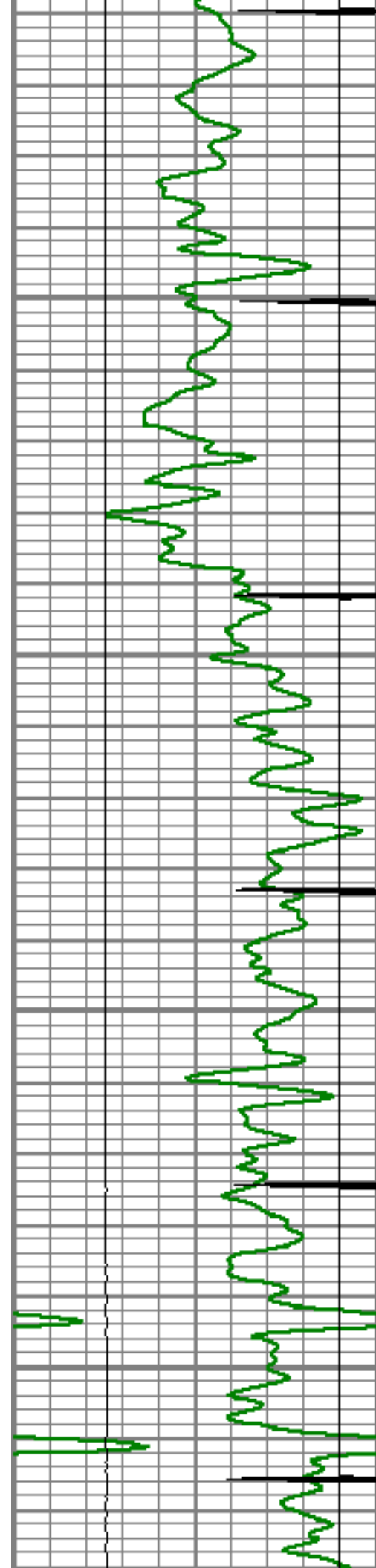
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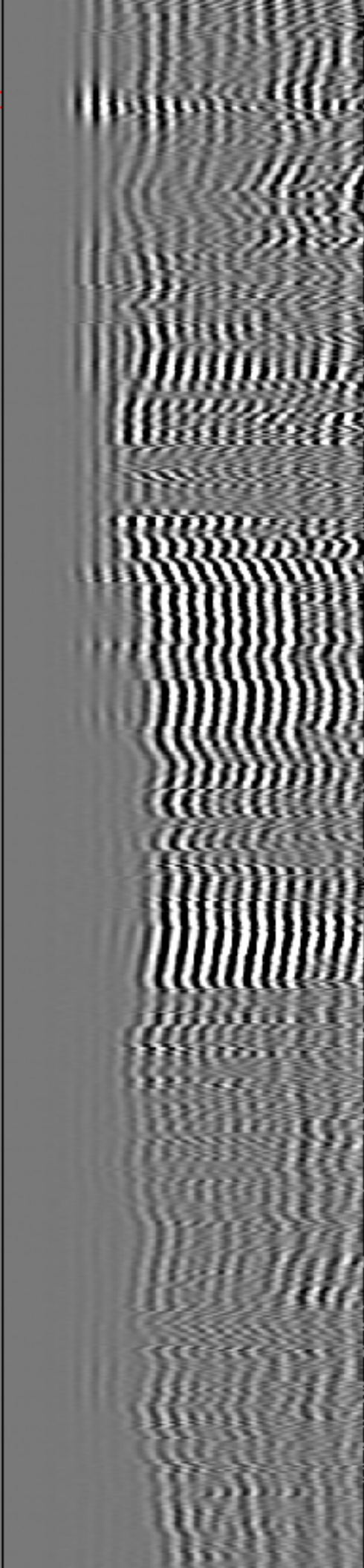
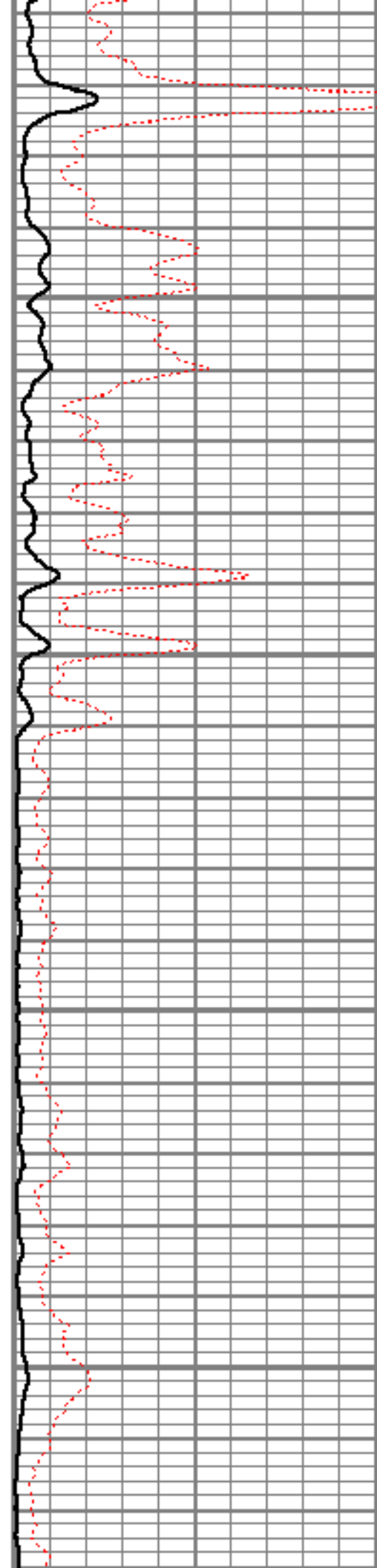


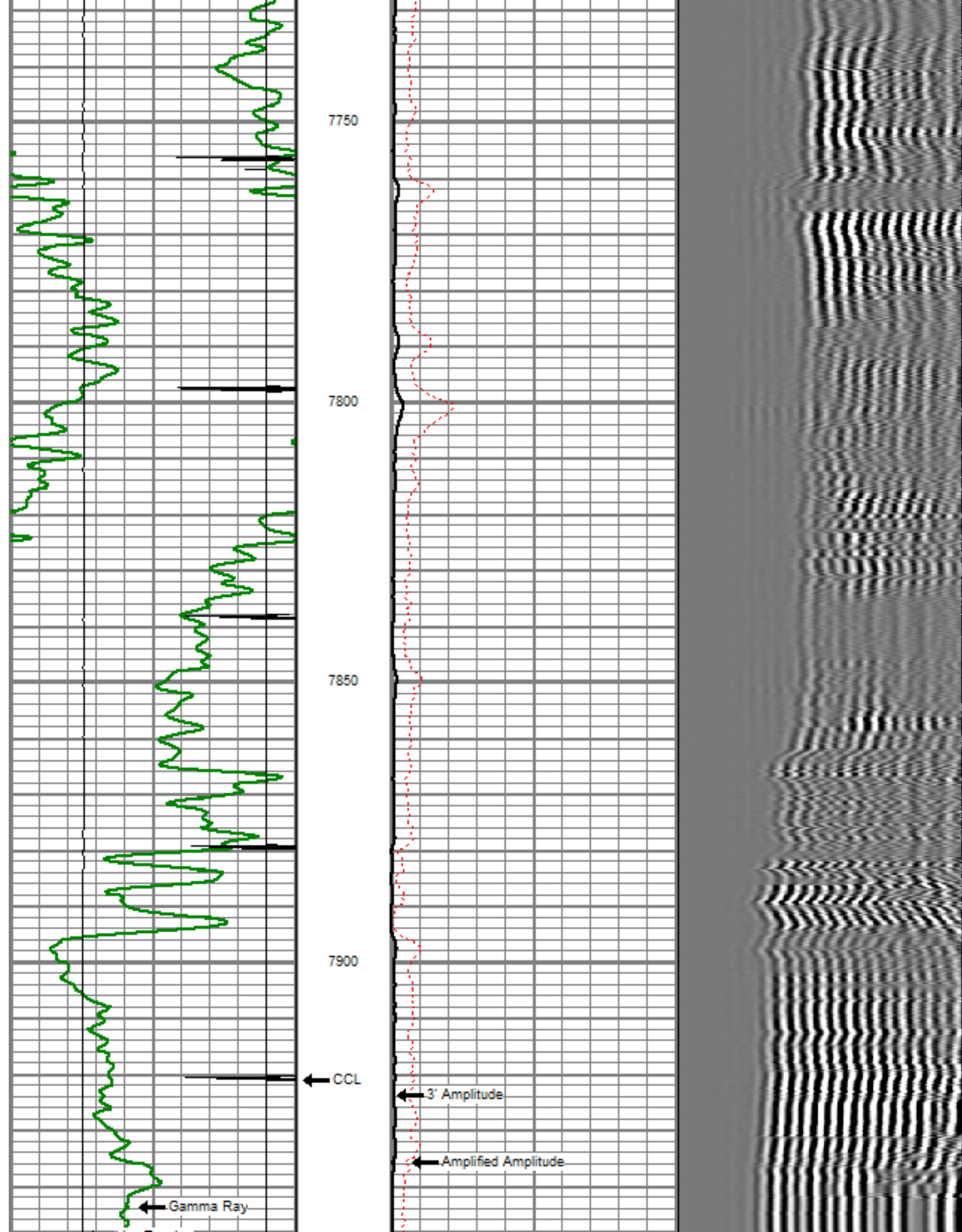
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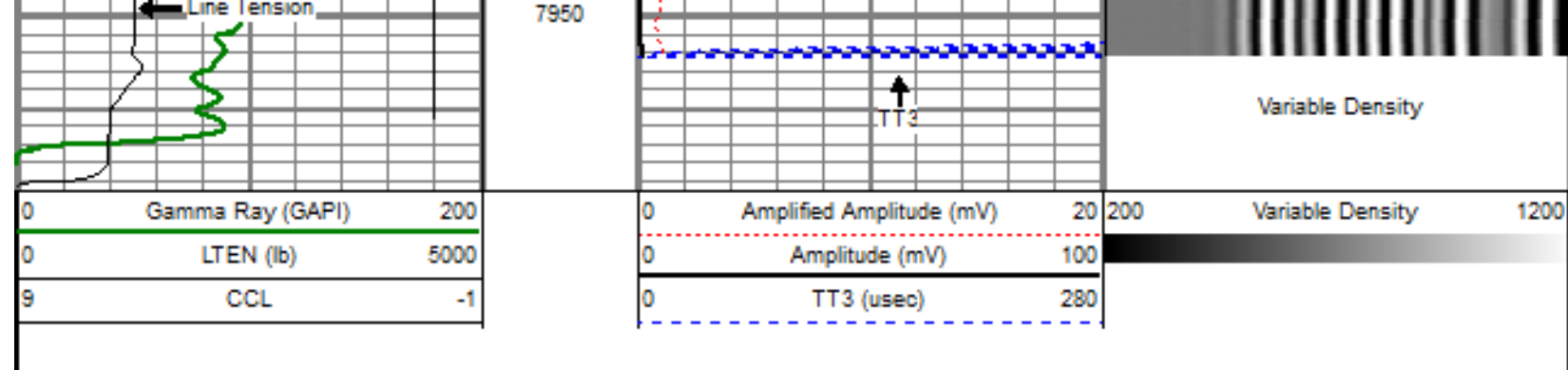
7600

7650


7700








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 1) Probe 2.75" Dual Receiver Bond	2.75	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_GRCCCL (PRB_GRCCCL_275_01 4.54) Probe 2.75" 4 Channel Pulse	4.54	2.75	30.00
GR	3.77					

TEMP	0.17		TEMP-Comprobe (TEMP_CMPRB_1375_0'2.88 Positive pulse Temp tool	2.88	1.38	15.00
Dataset: file 31-17.db: field/well/run1/pass3 Total Length: 22.98 ft Total Weight: 126.50 lb O.D. 2.75 in						

	<div> <div>Company</div> <div>Well</div> <div>Field</div> <div>County</div> <div>State</div> <div>ENCANA OIL &amp; GAS (USA) INC</div> <div>FILE 31-17</div> <div>WATTENBERG</div> <div>WELD</div> <div>COLORADO</div> </div>
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