



# CEMENT BOND LOG

Mesa Wireline

Company	ENCANA OIL & GAS (USA) INC.		
Well	BILLINGS 31-34		
Field	SPINDLE		
County	WELD		
State	COLORADO		
Company ENCANA OIL & GAS (USA) INC.		Location: API #: 05-123-29270-0000	
Well BILLINGS 31-34		Other Services	
Field SPINDLE		NONE	
County WELD		State COLORADO	
SEC. 34 TWP. 2N RGE. 68W		Elevation	
Permanent Datum GROUND LEVEL		K.B. 5007'	
Log Measured From KELLY BUSHING = 12'		D.F. 5006'	
Drilling Measured From KELLY BUSHING		G.L. 4995'	

Date	23 MAY 2011		
Run Number	ONE		
Depth Driller	8390'		
Depth Logger	8362'		
Bottom Logged Interval	8362'		
Top Log Interval	SURFACE		
Open Hole Size	4.5"		
Type Fluid	WATER		
Density / Viscosity	~8.3#		
Max. Recorded Temp.	260 DEG F		
Estimated Cement Top	3510'		
Time Well Ready	N/A		
Time Logger on Bottom	N/A		
Equipment Number	10901 PRD 02		
Location	AULT, CO		
Recorded By	Z. EMICK		
Witnessed By	T. MAJORS		
Borehole Record			
Run Number	Bit	From	To
ONE	12.25"	0'	1065'
TWO	7.875"	0'	8405'
Tubing Record			
Casing Record	Size	Wgt/Ft	Top
Surface String	8.625"	24#	0'
Prot. String			
Production String	4.5"	11.6#	0'
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

CORRELATED TO PSI HIGH RESOLUTION INDUCTION LOG DATED 5 MAY 2011  
SHORT JOINT 7384'-7407'

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



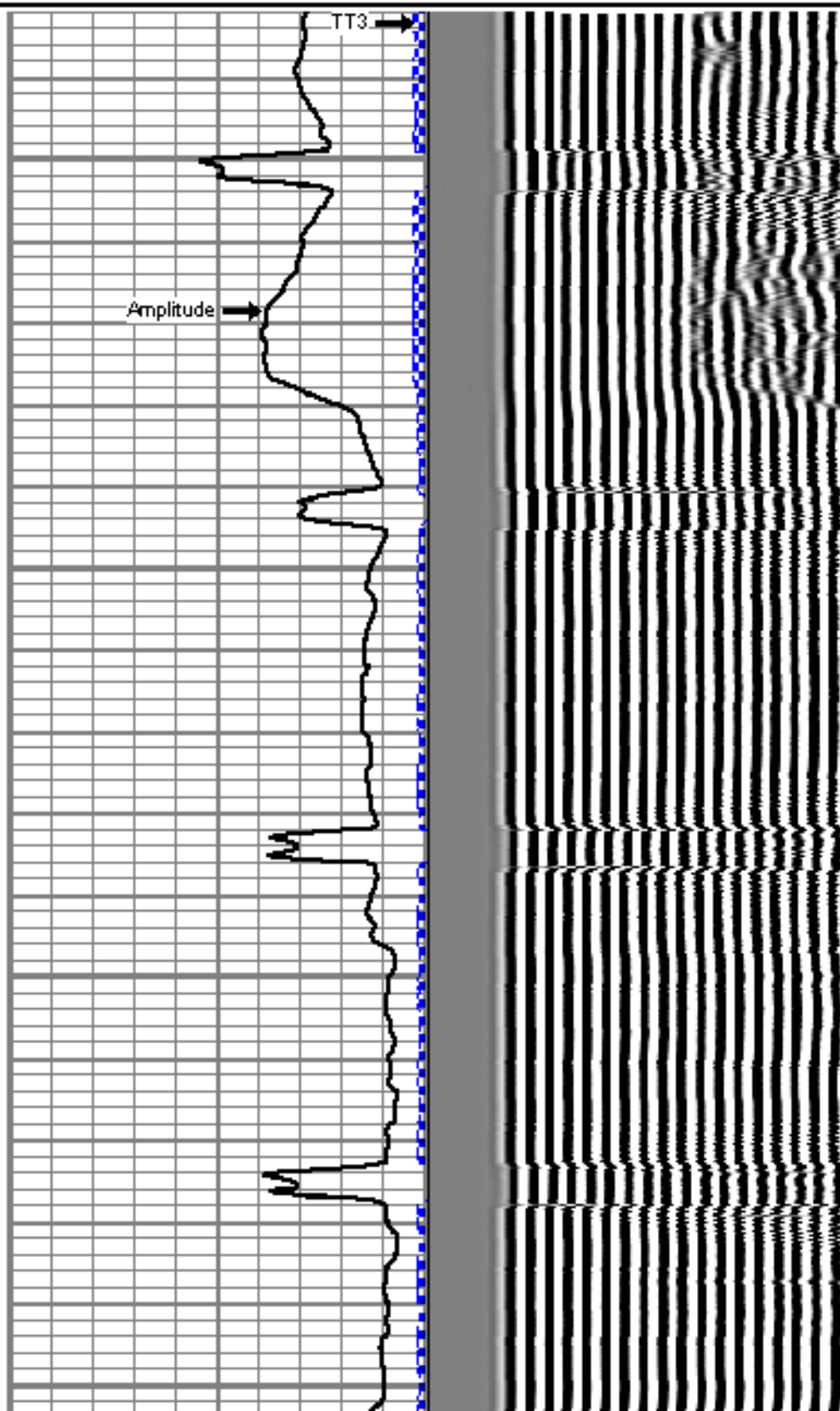
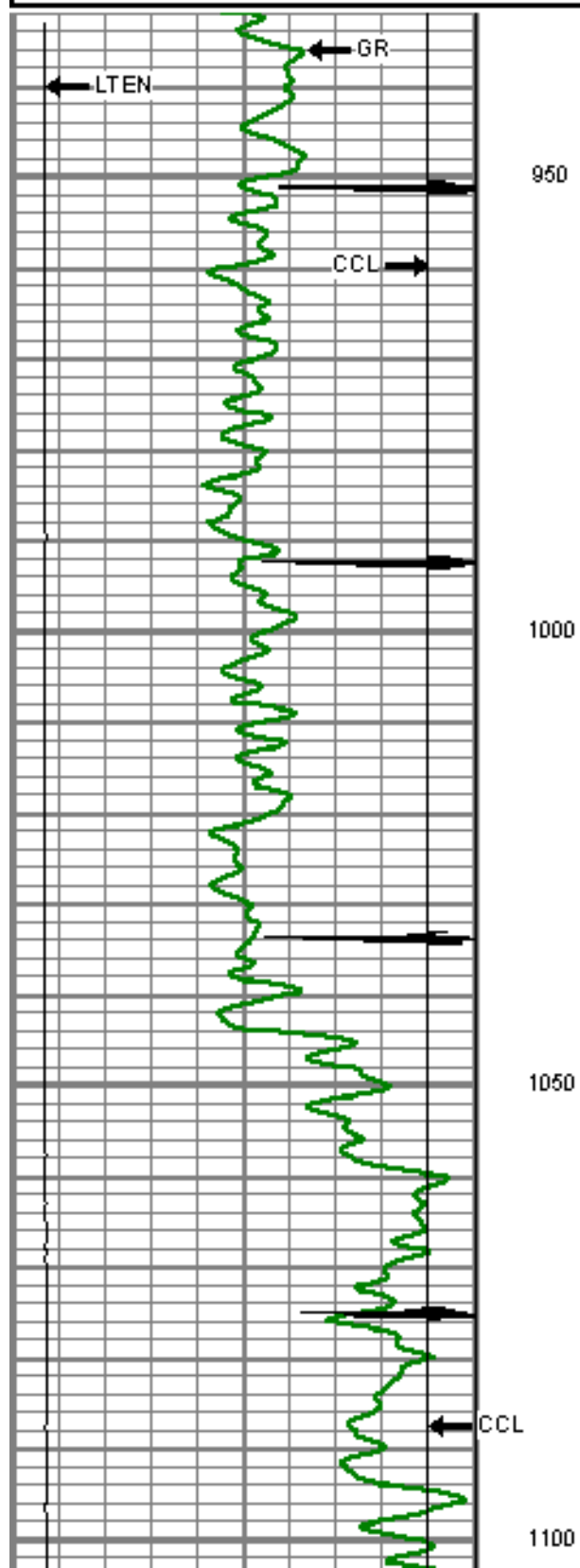
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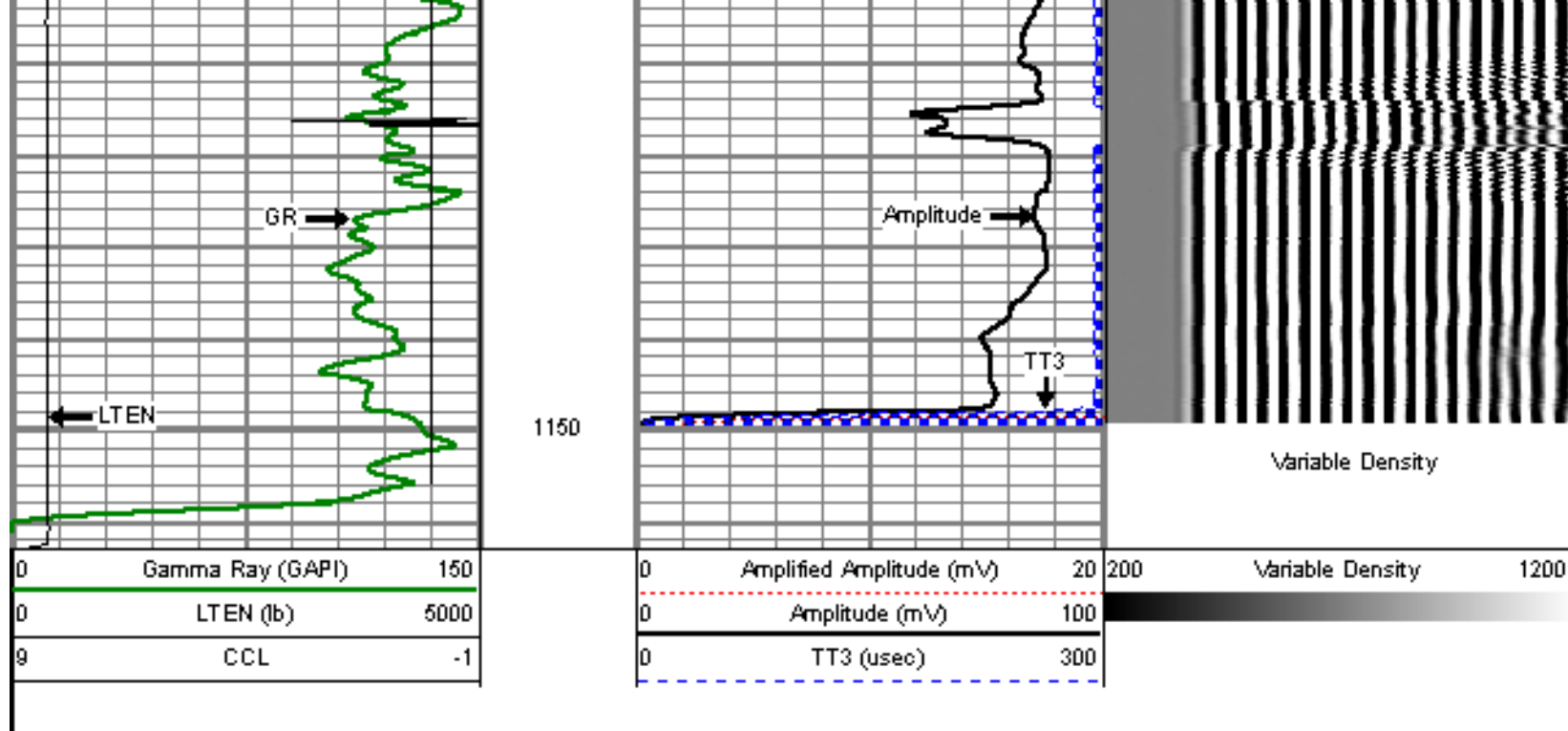
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Dataset Creation: Tue May 24 09:26:45 2011 by Calc SCH 110223  
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
0	LTEN (lb)	5000
9	CCL	-1

0	Amplified Amplitude (mV)	20
0	Amplitude (mV)	100
0	TT3 (usec)	300

200 Variable Density 1200

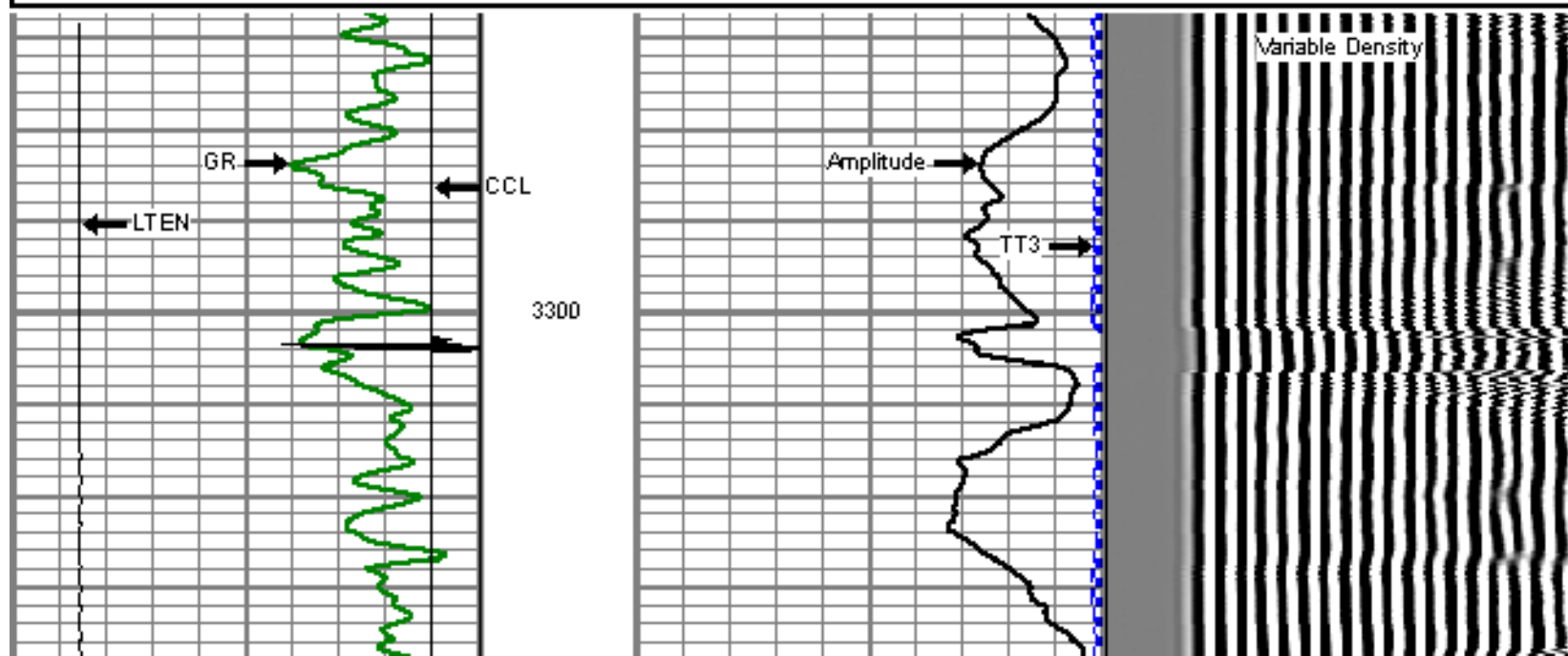
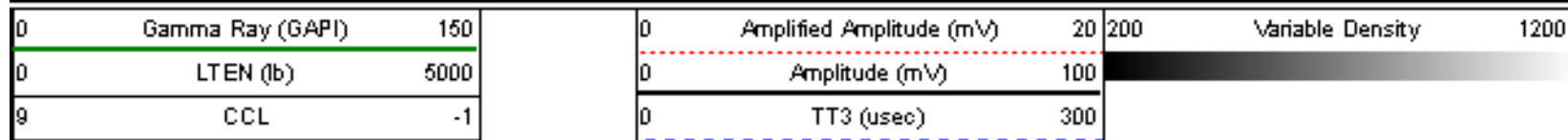


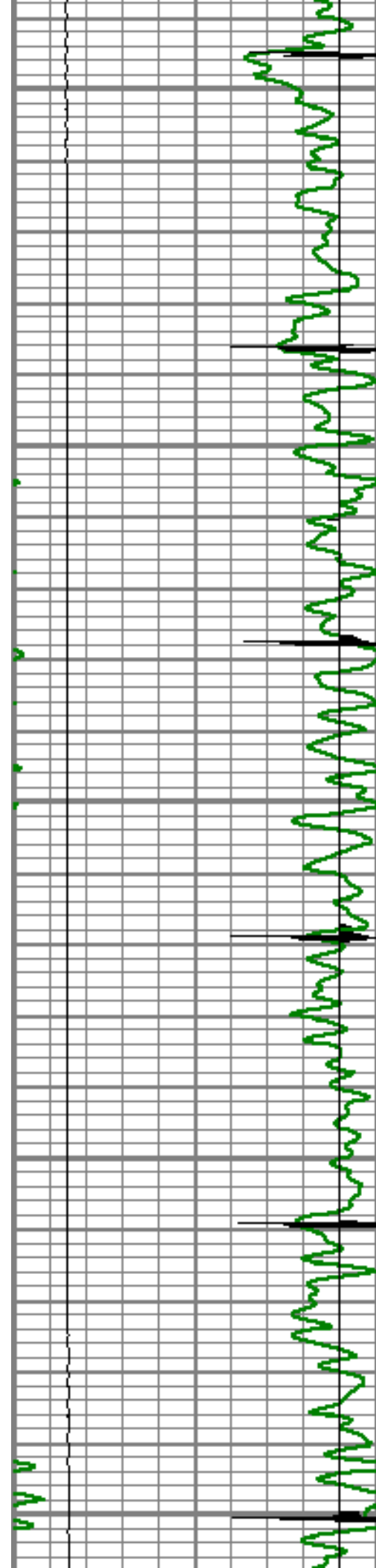


## Main Pass

5" = 100'

Database File: billings 31-34.db  
 Dataset Pathname: pass10.2  
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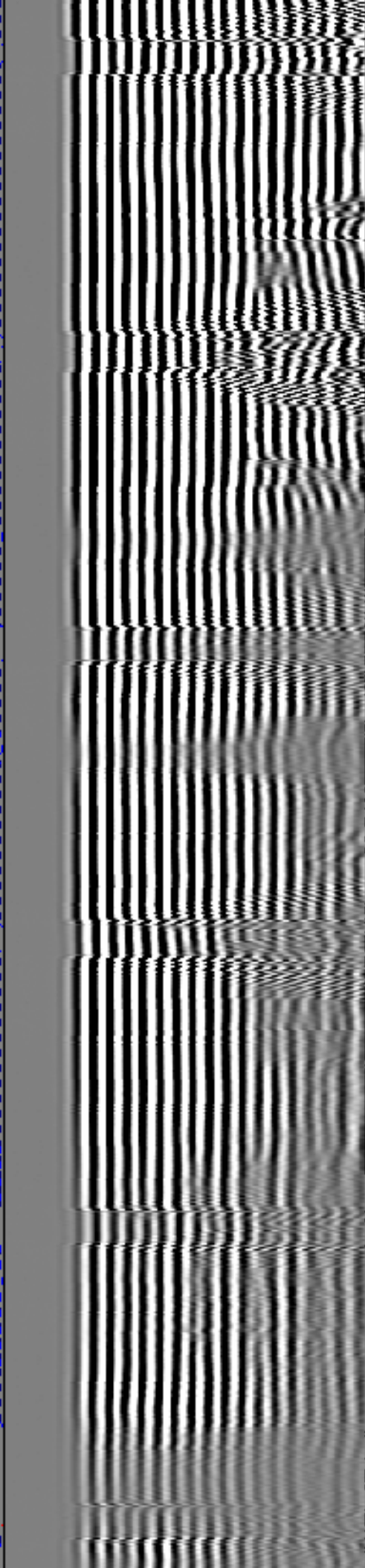
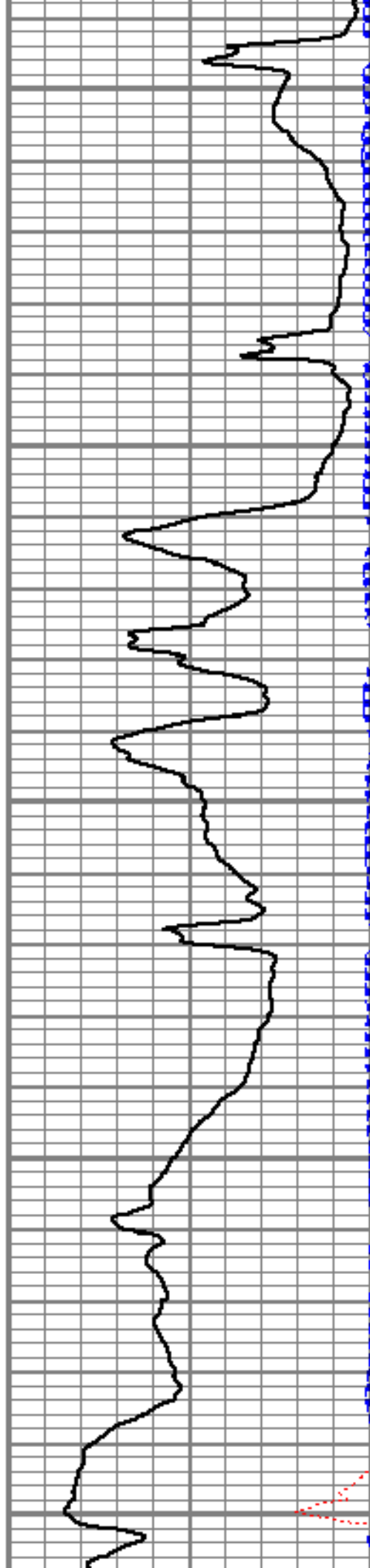
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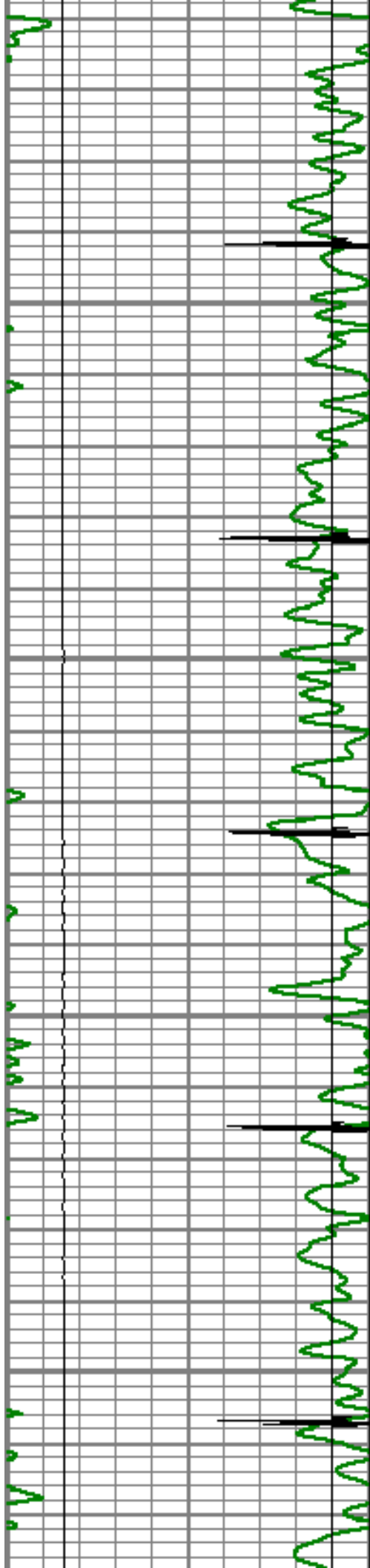
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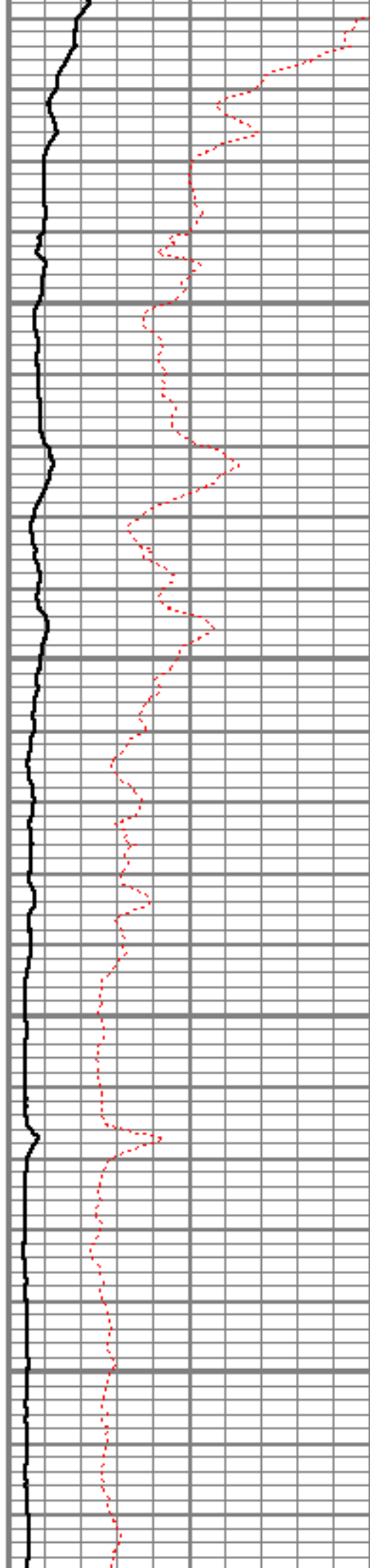


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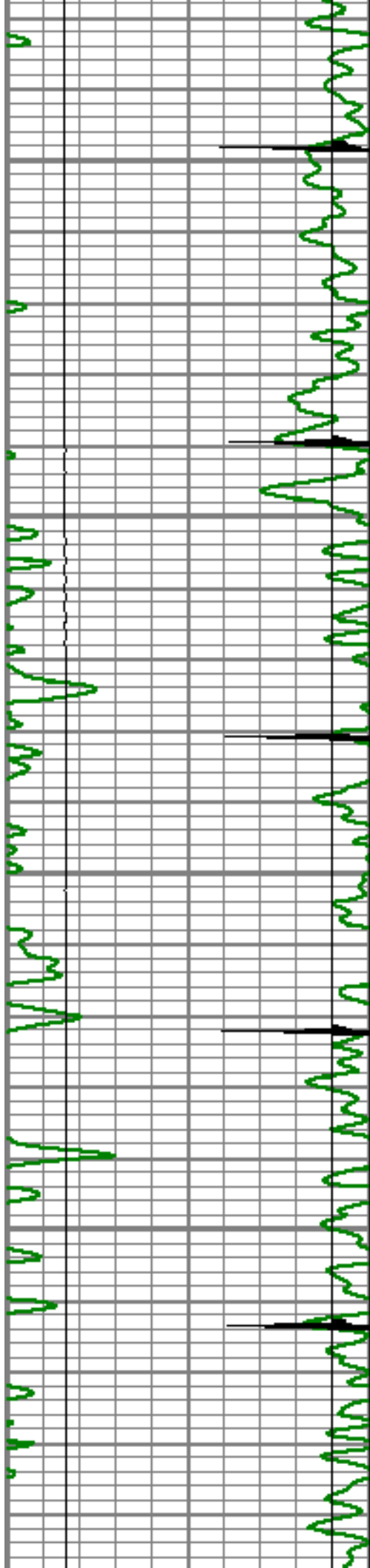
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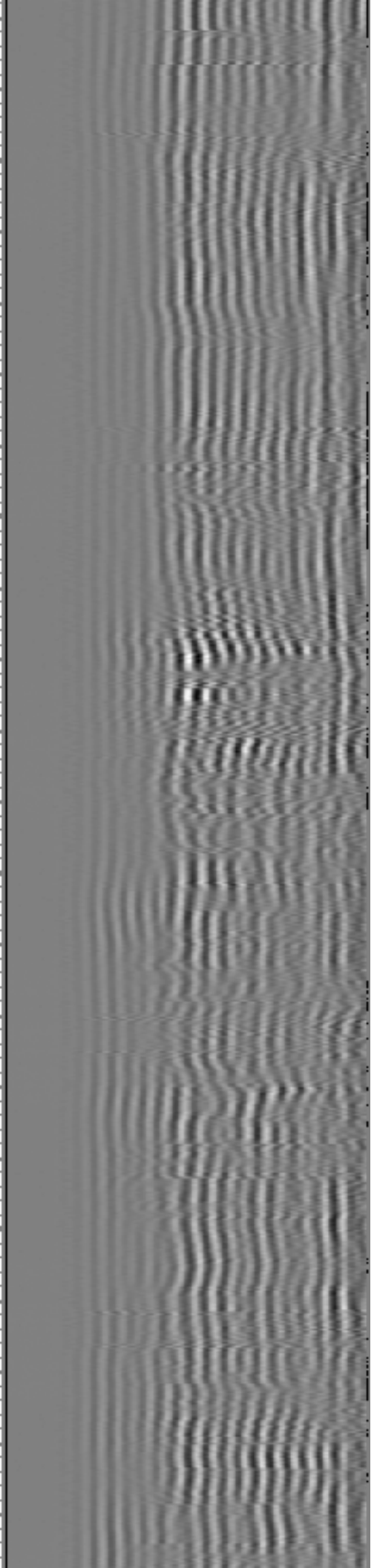
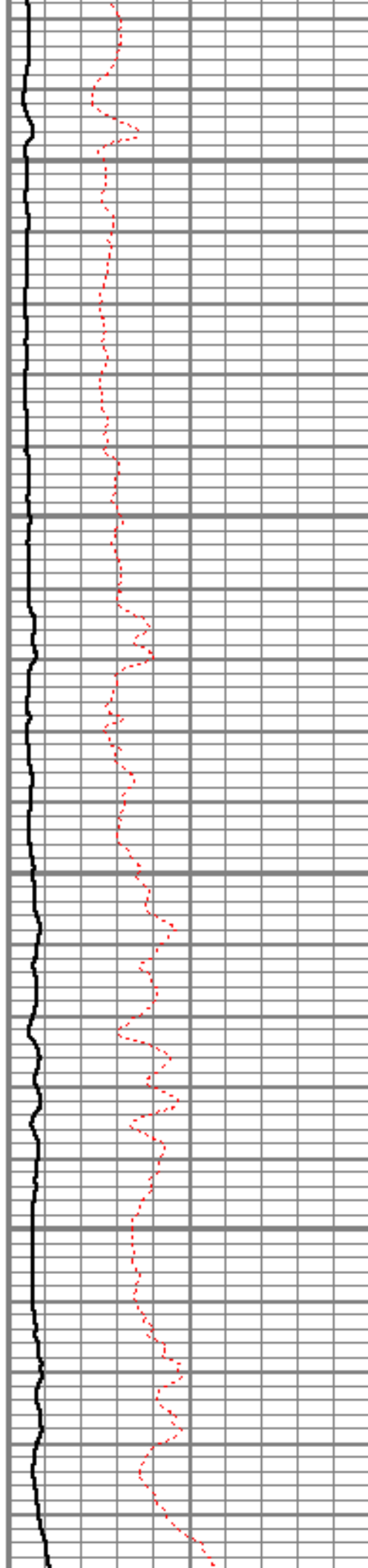


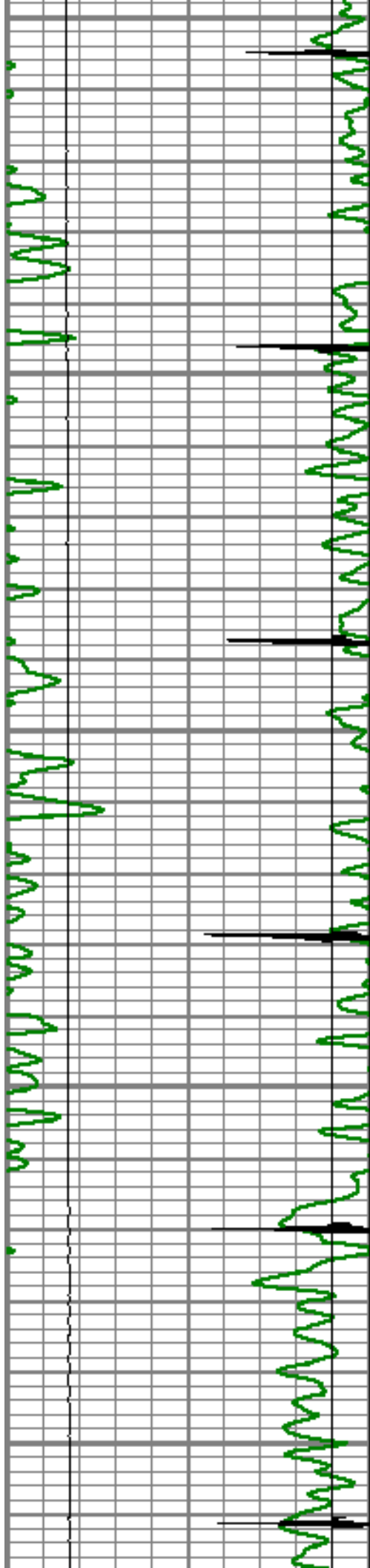
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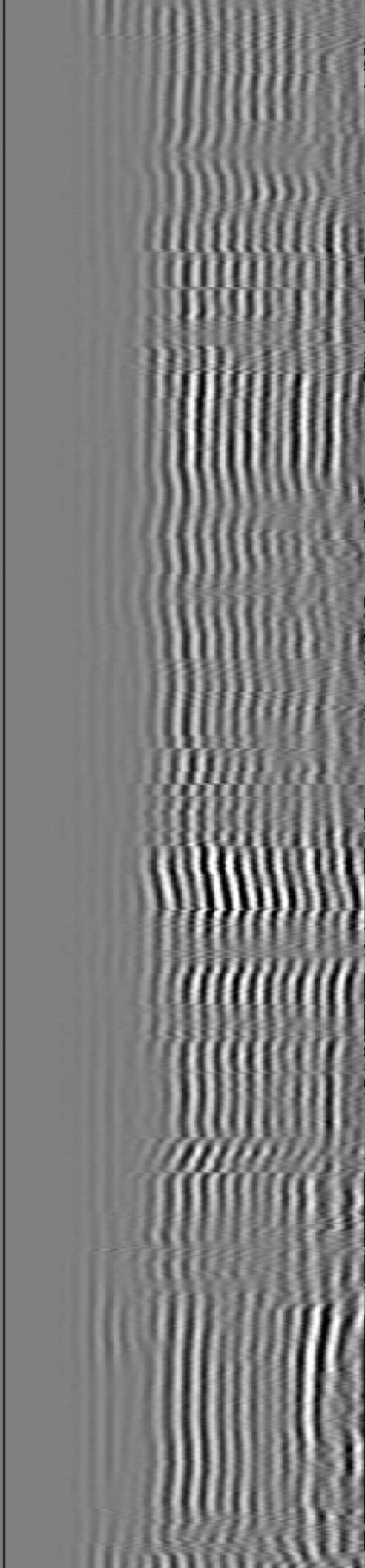
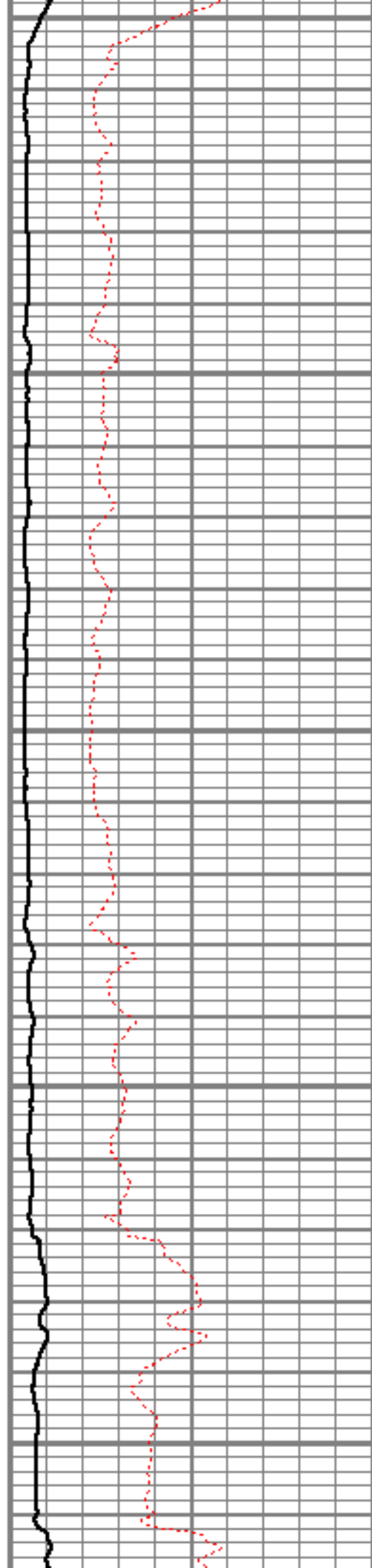
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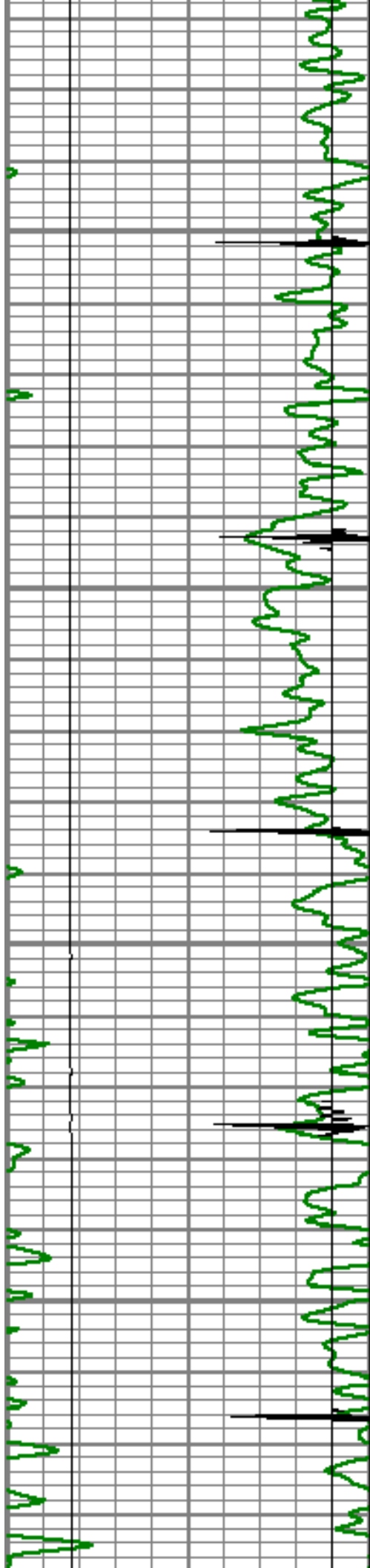
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4000  
4050  
4100  
4150  
4200



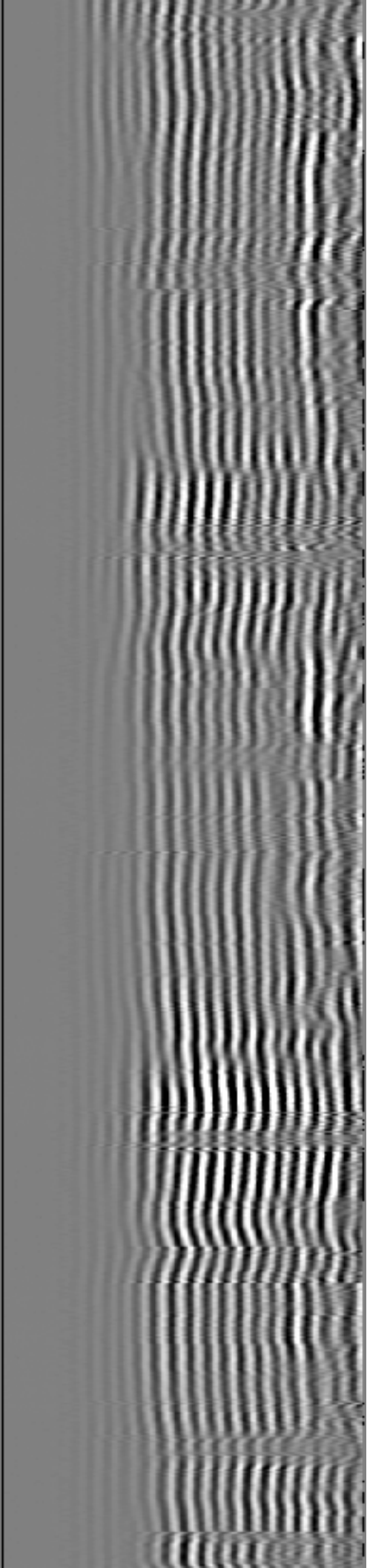
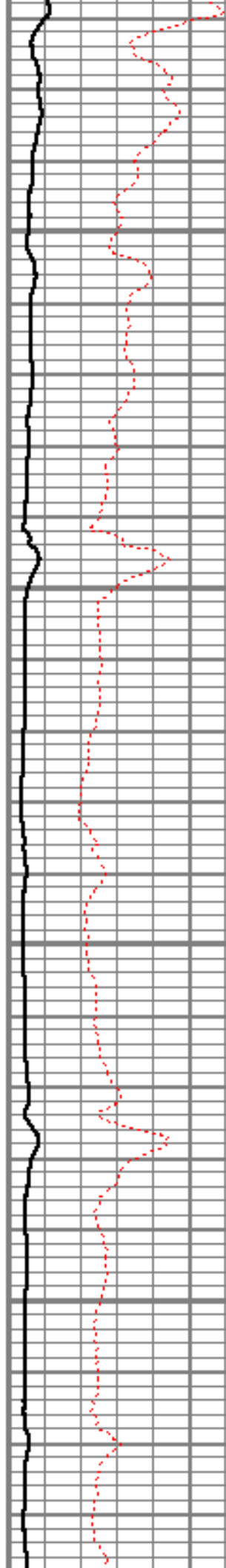


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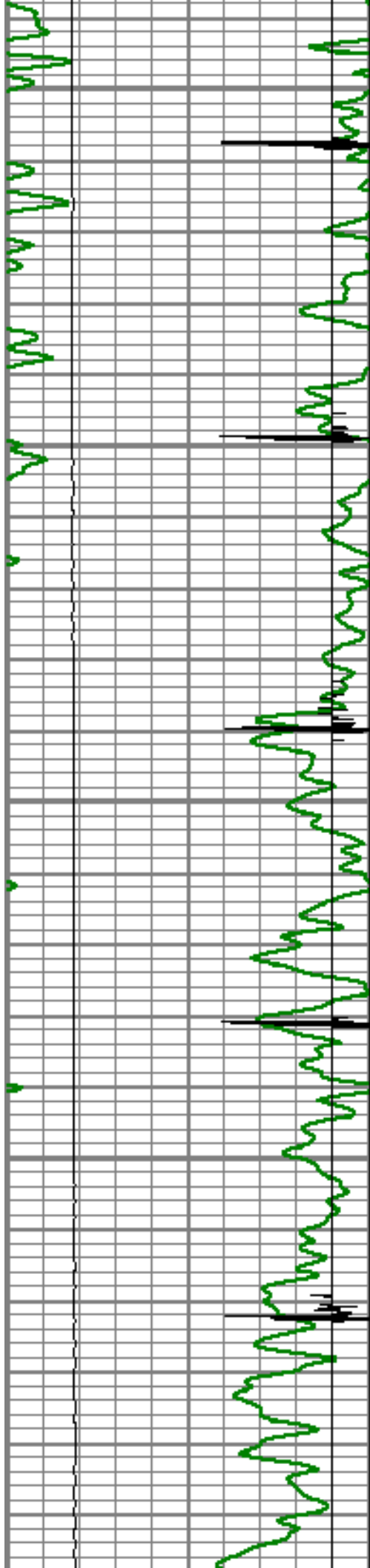
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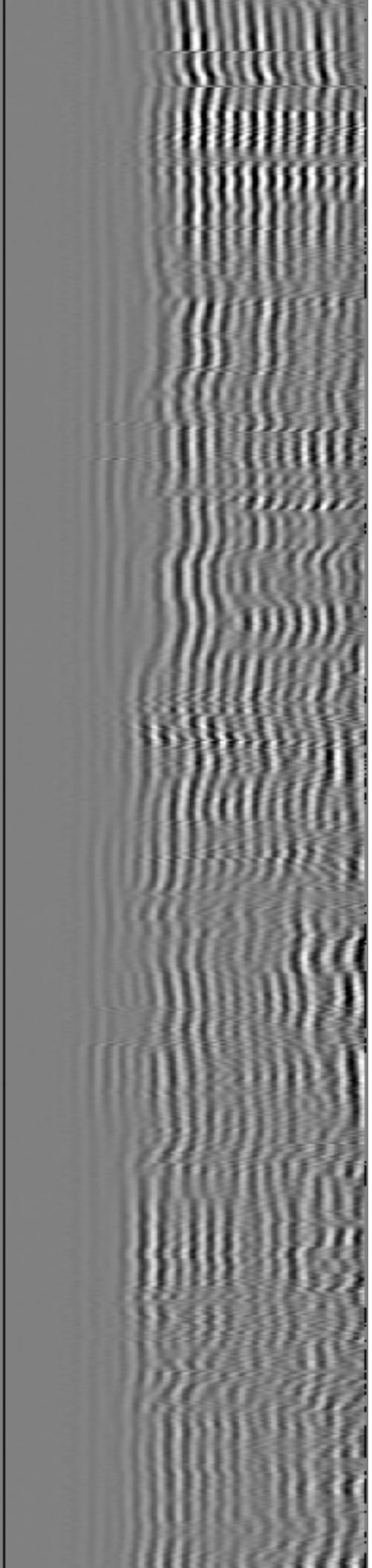
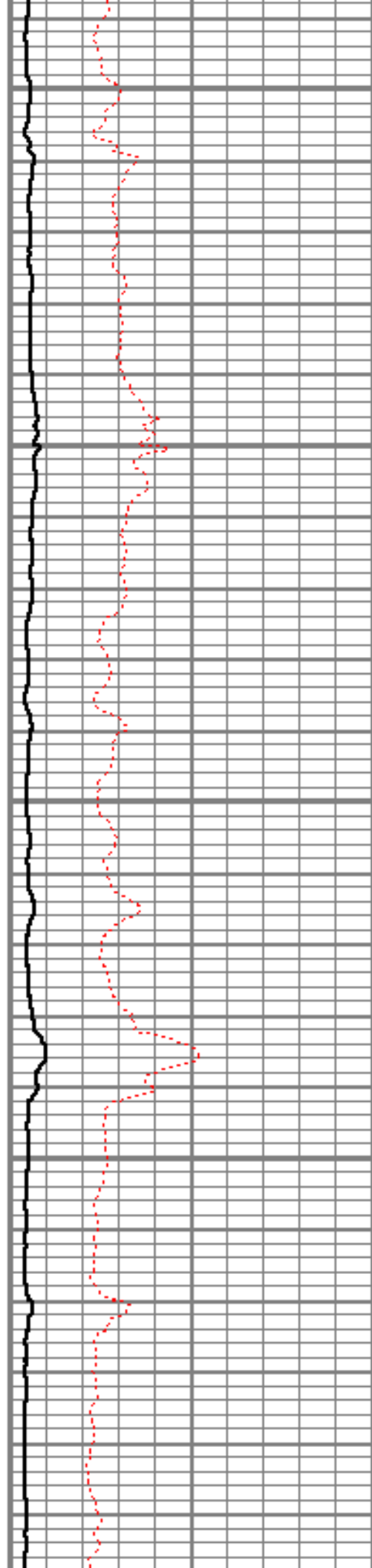
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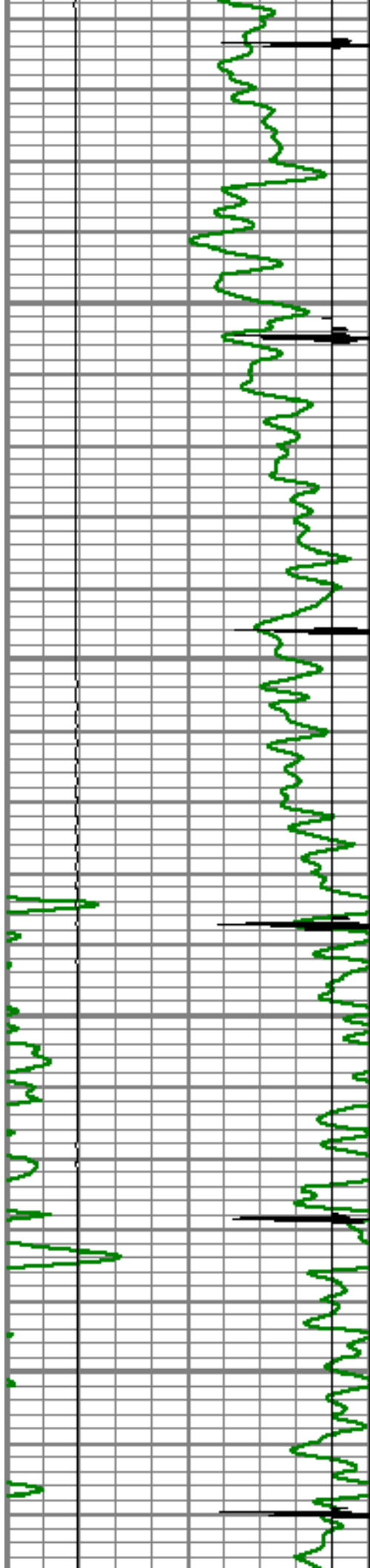
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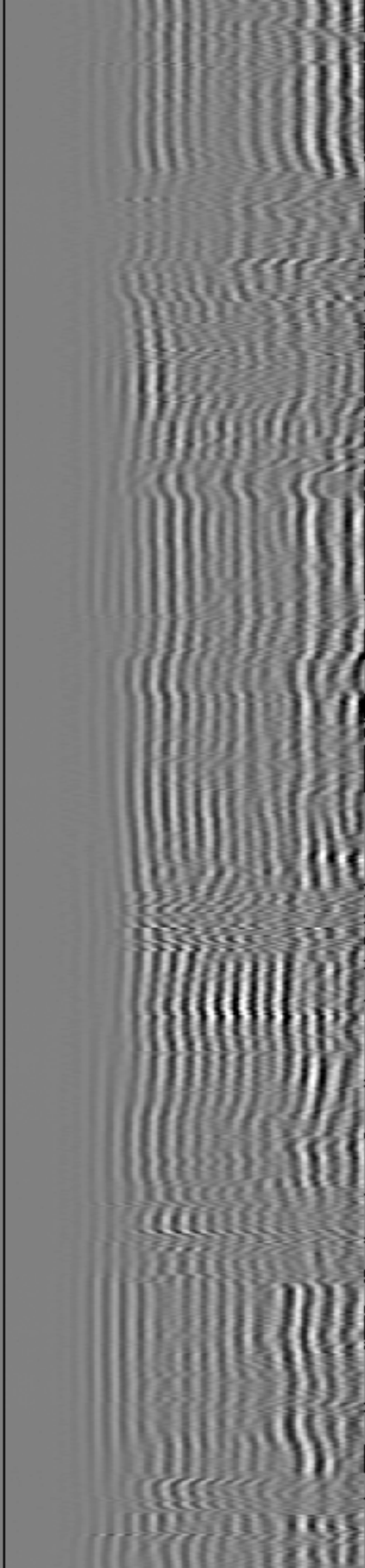
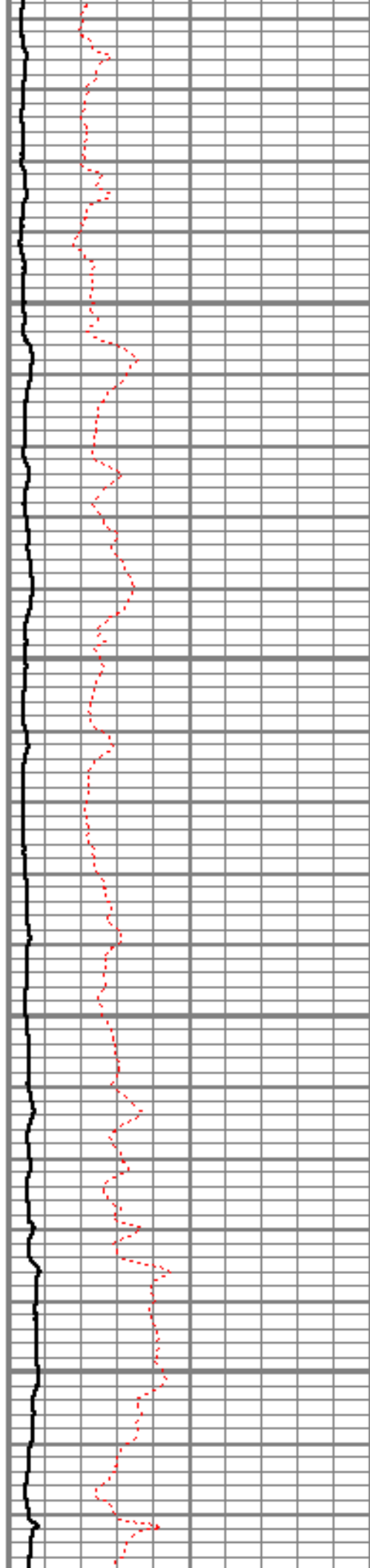


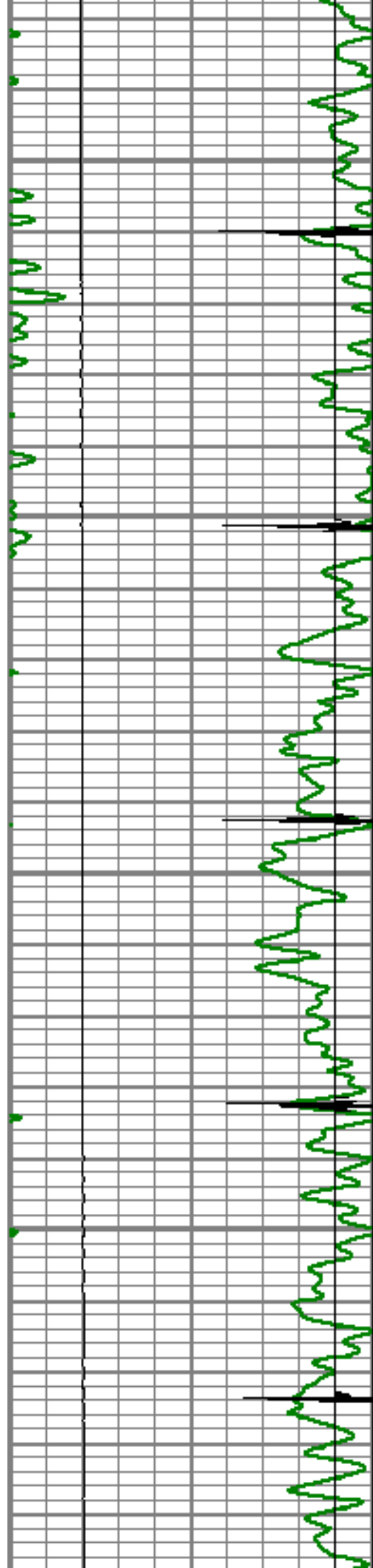
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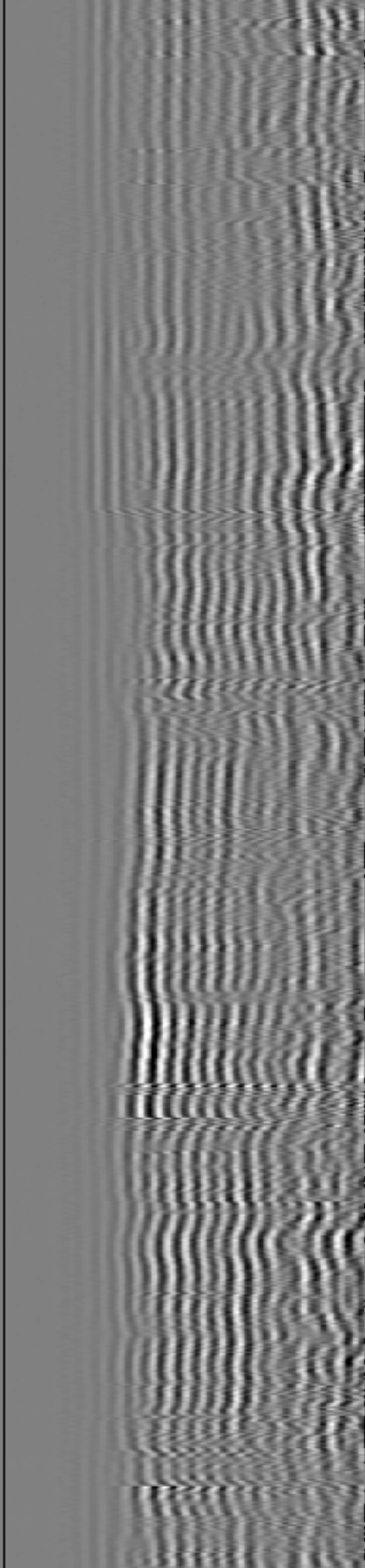
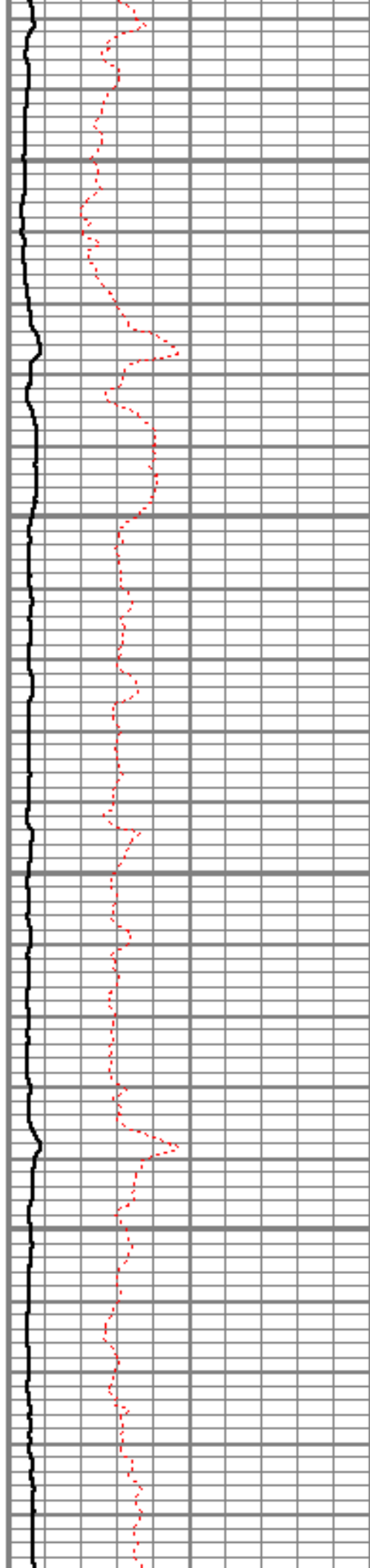


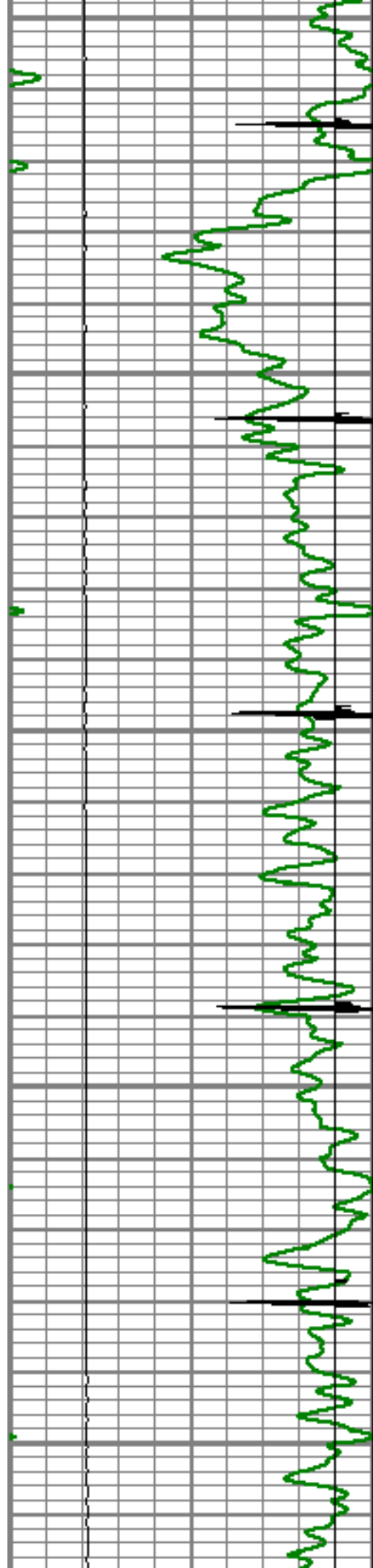
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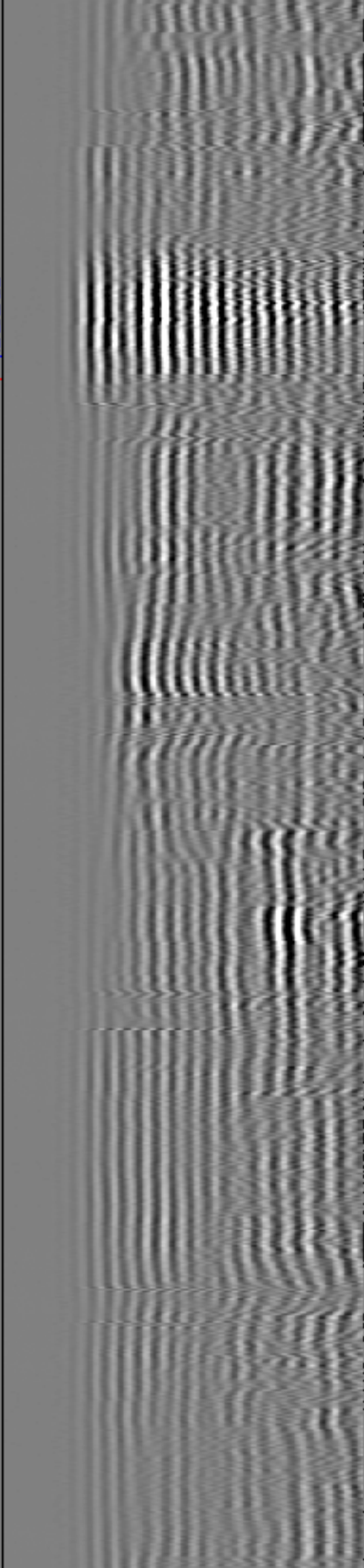
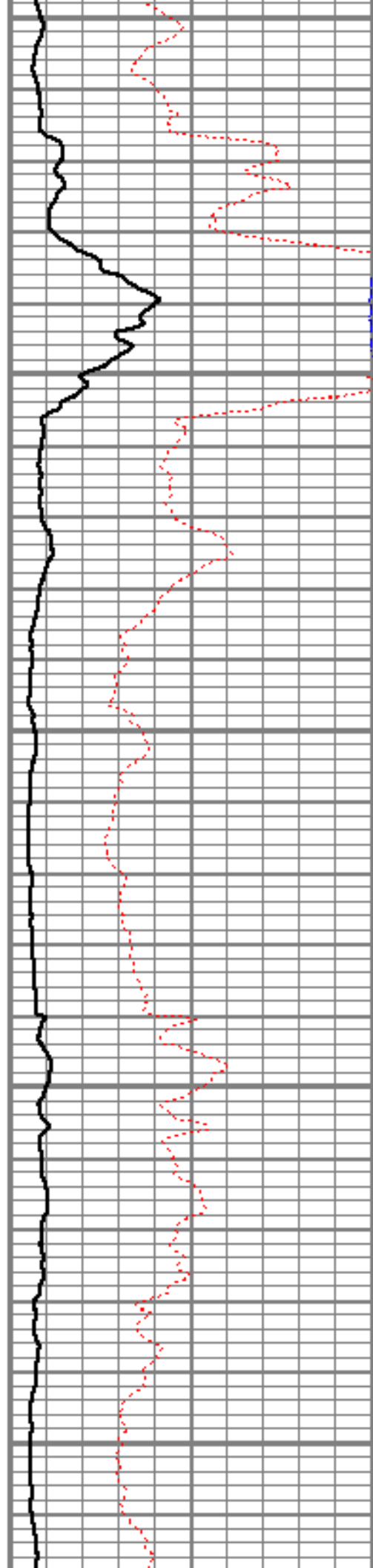
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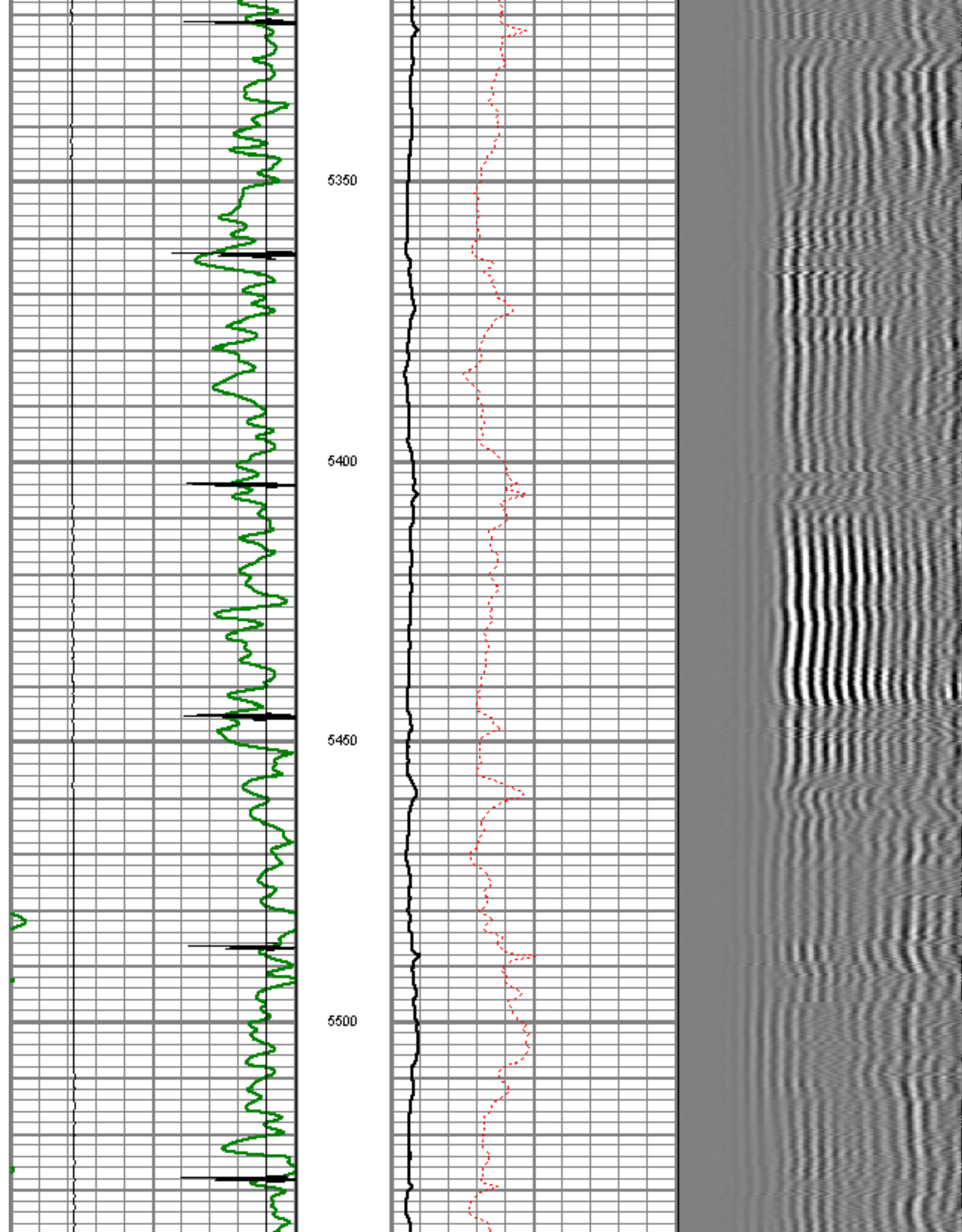
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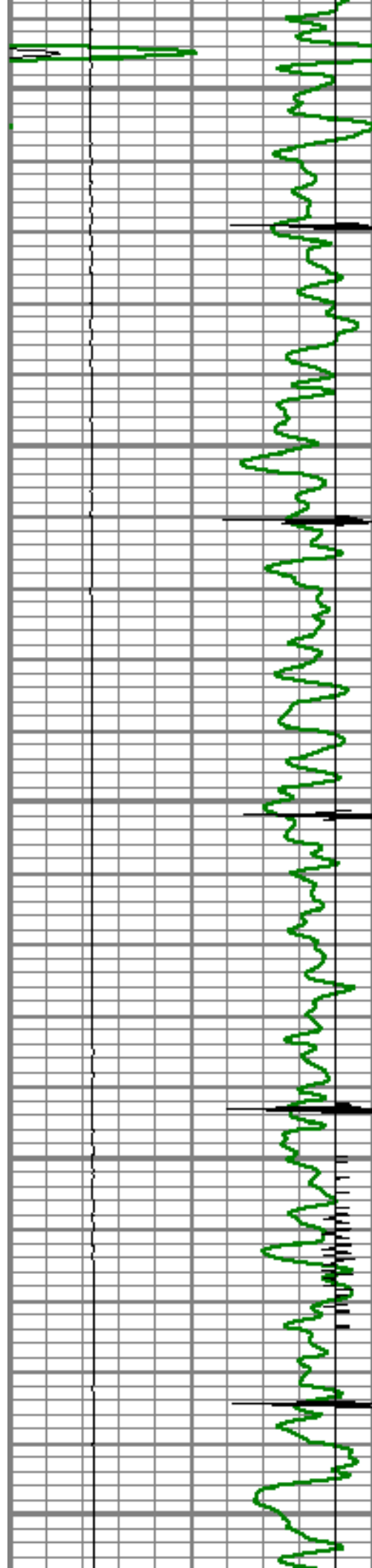
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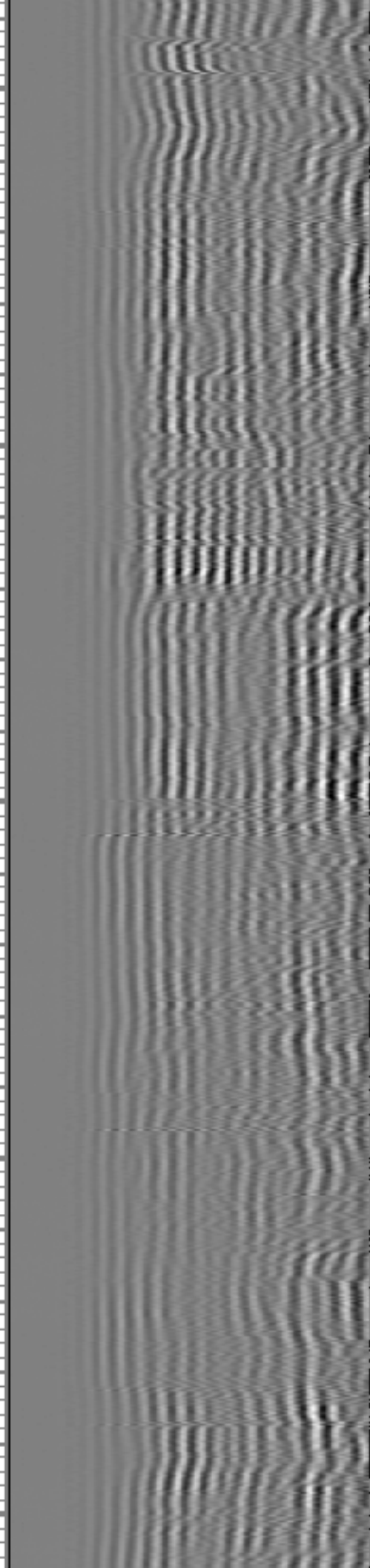
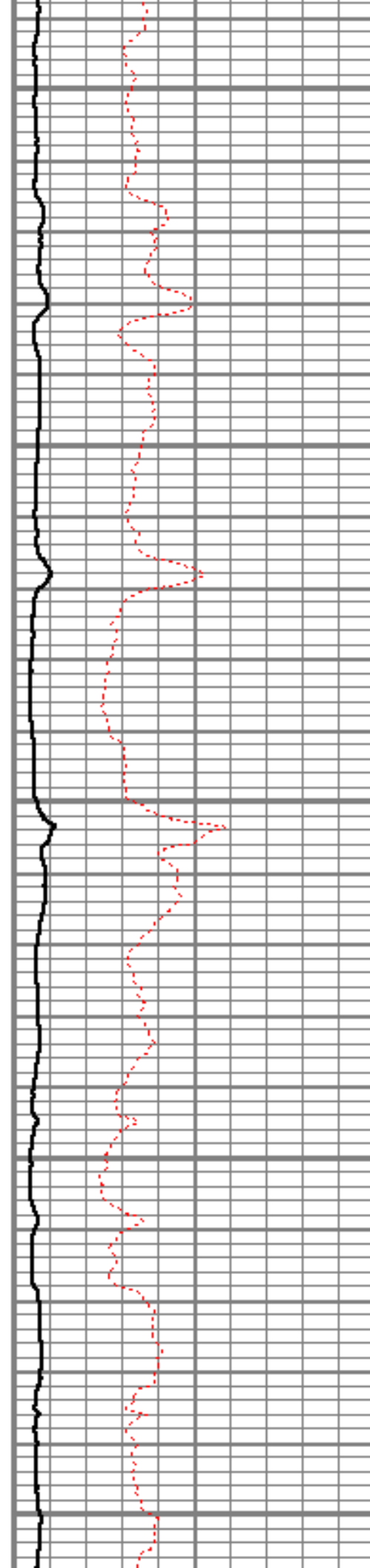
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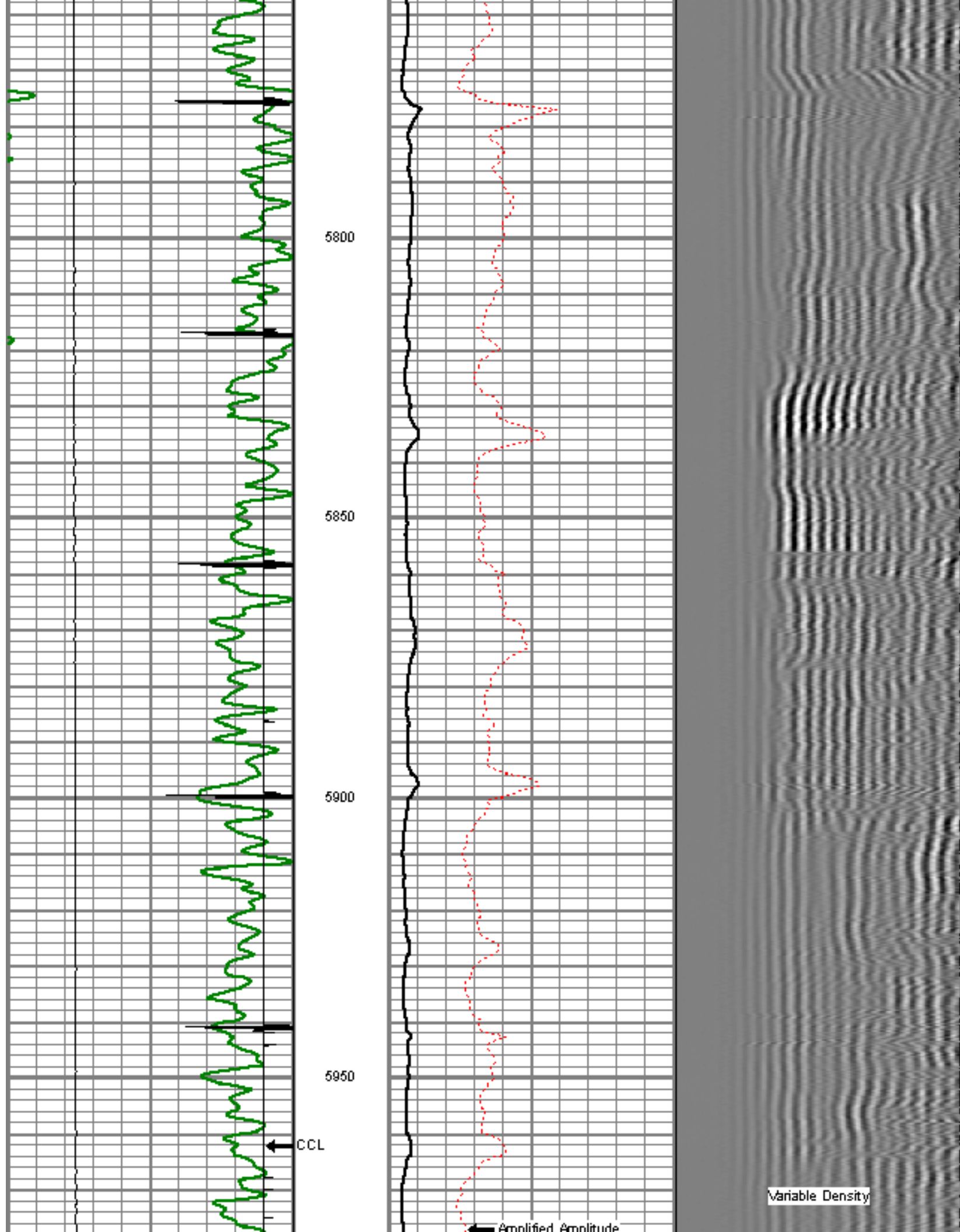
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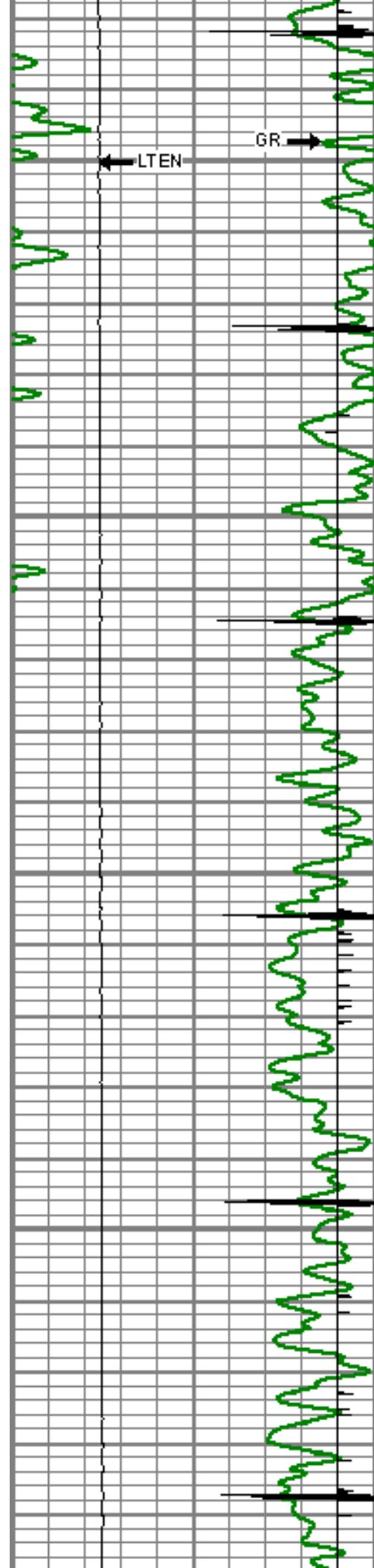
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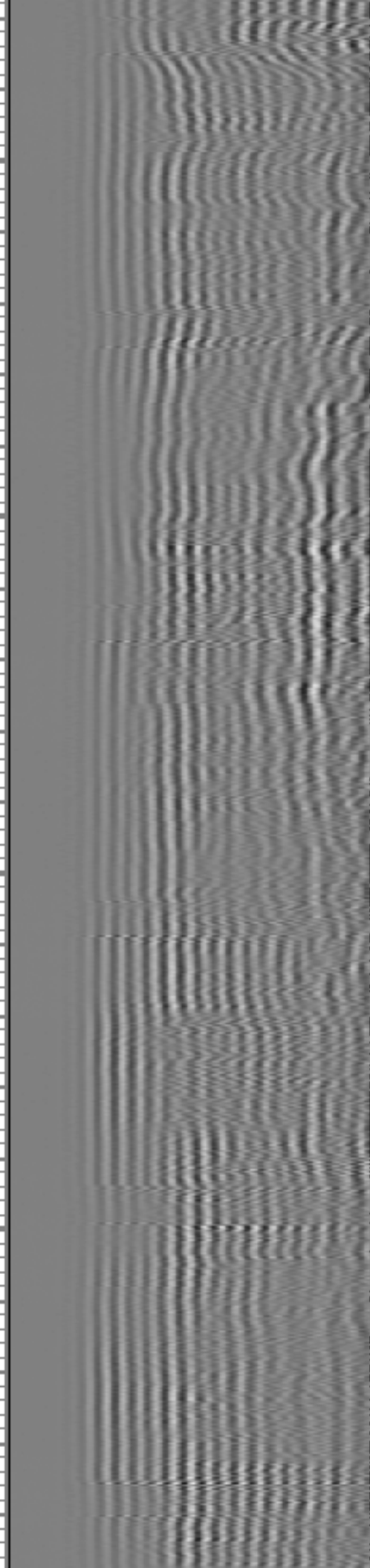
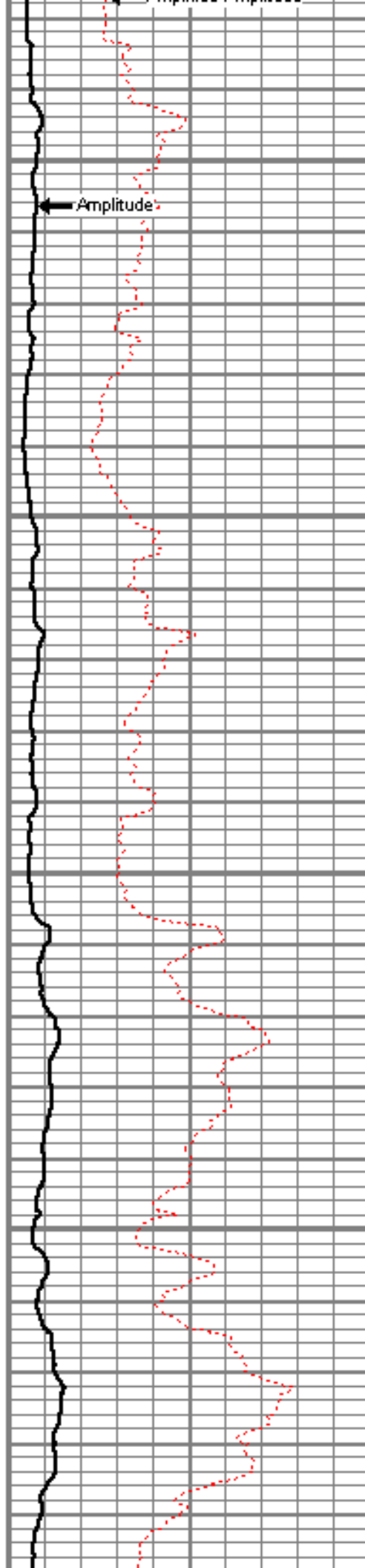


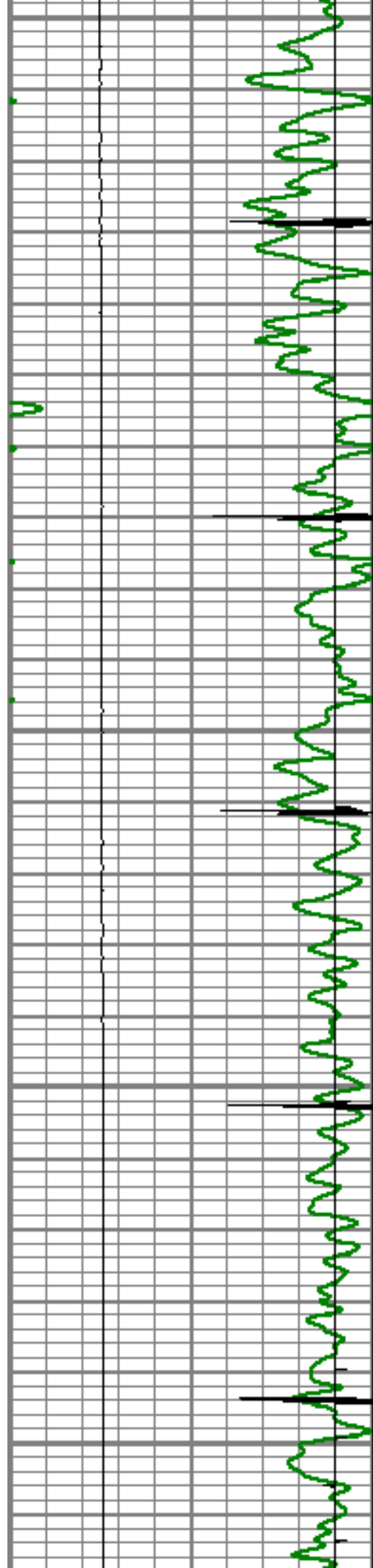
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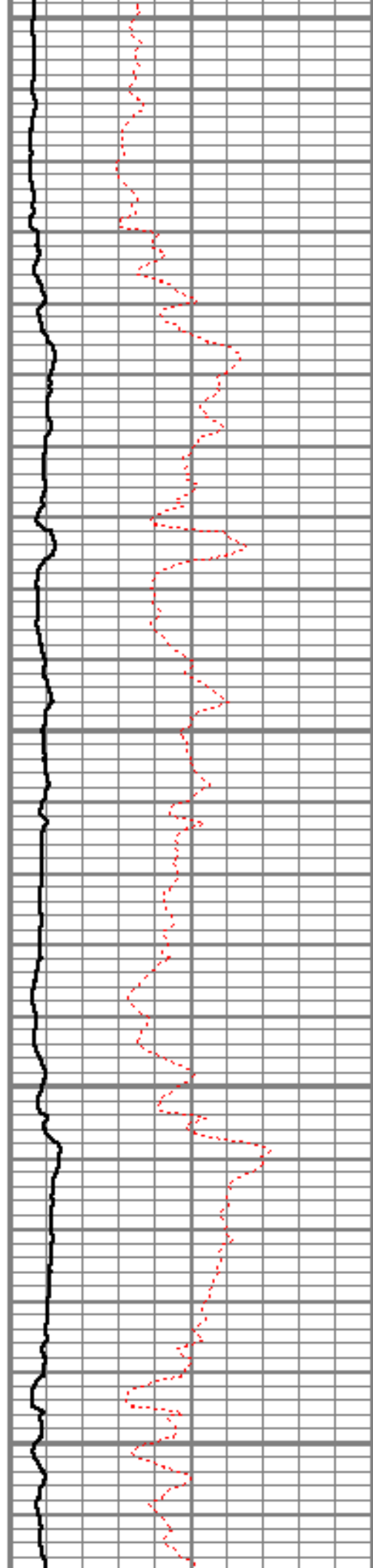
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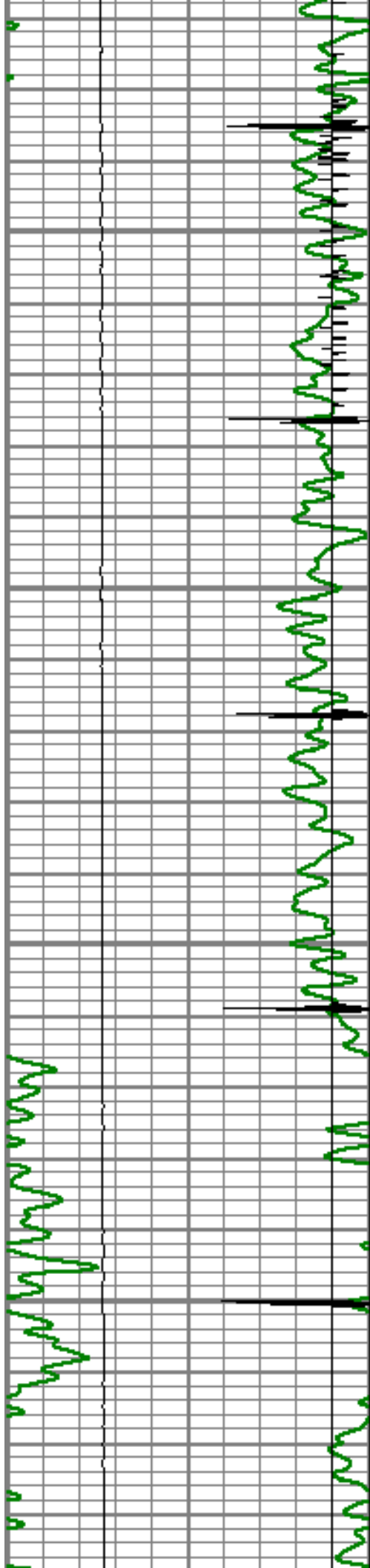
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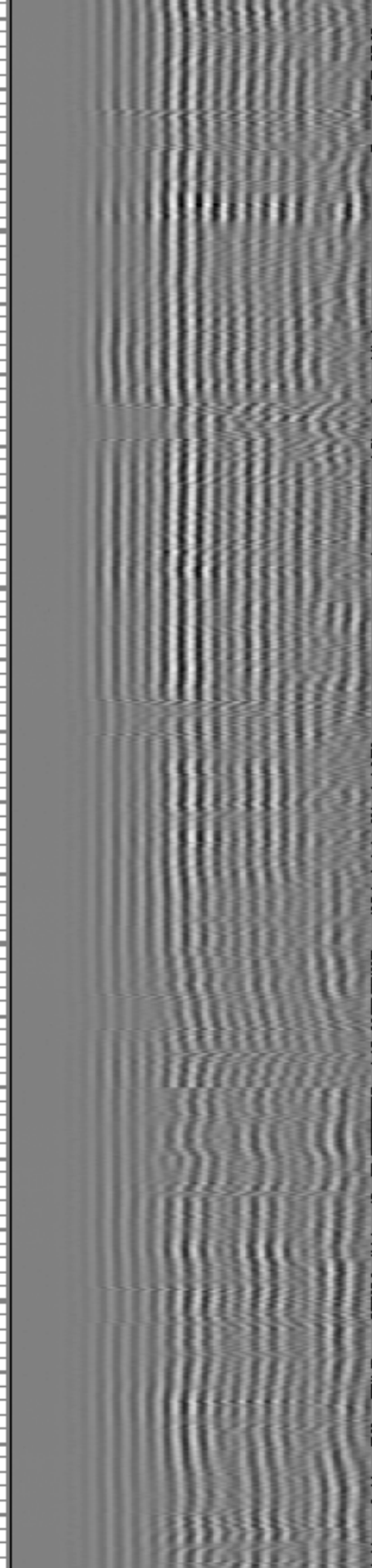
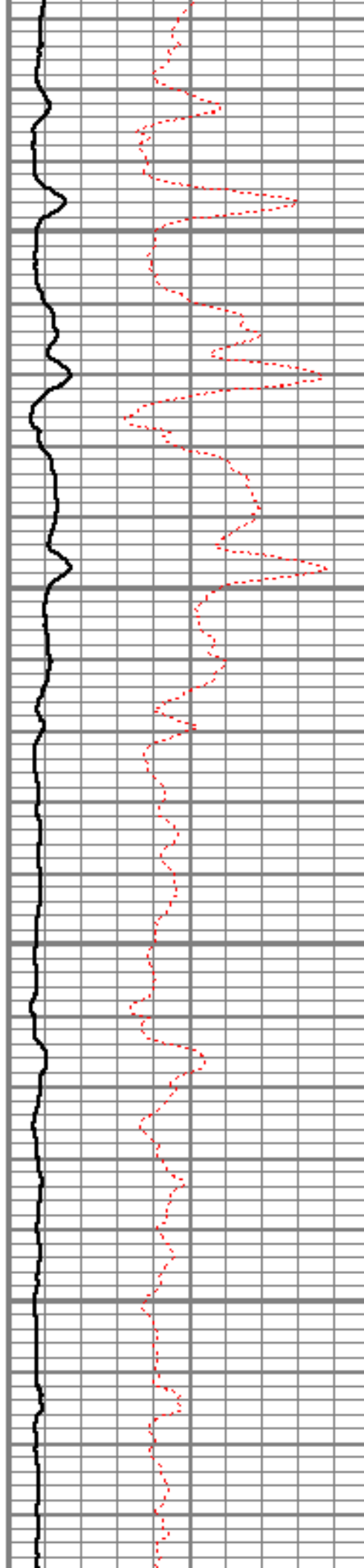


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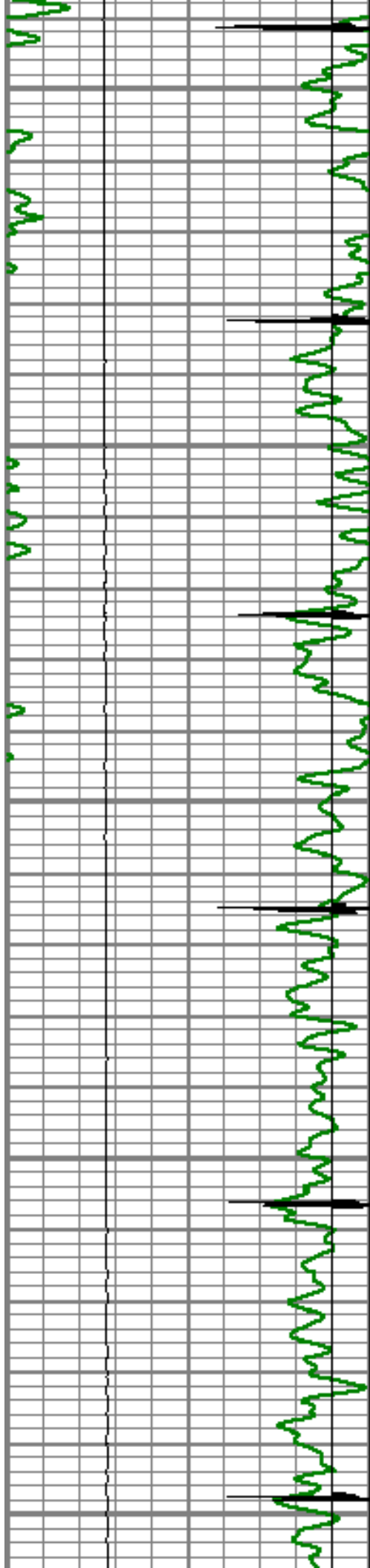
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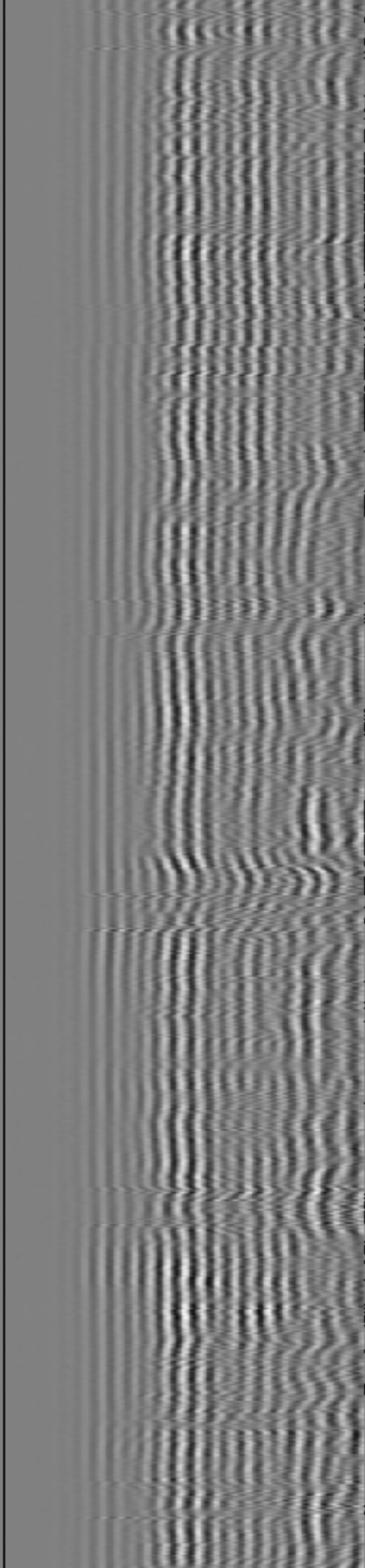
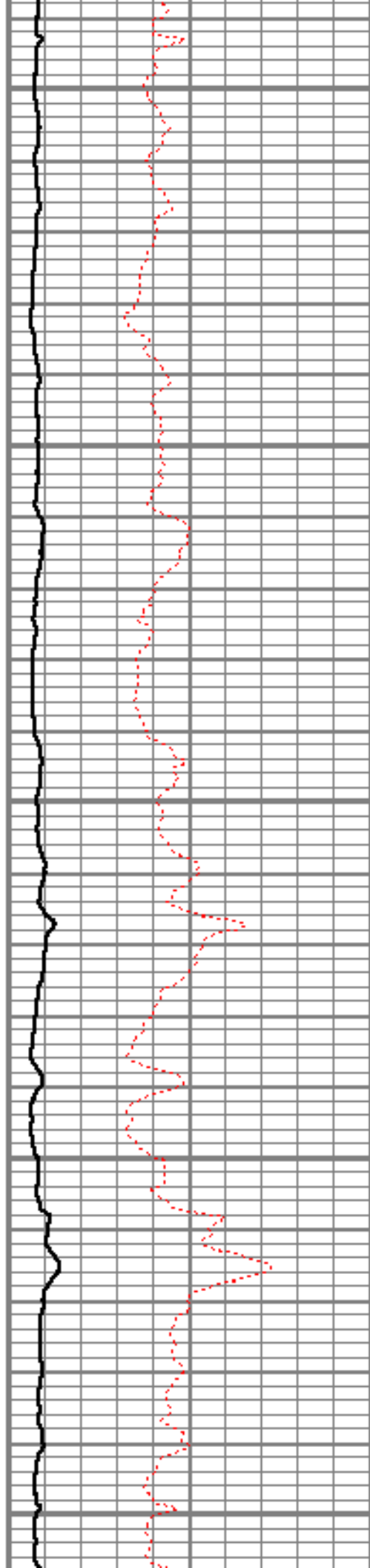
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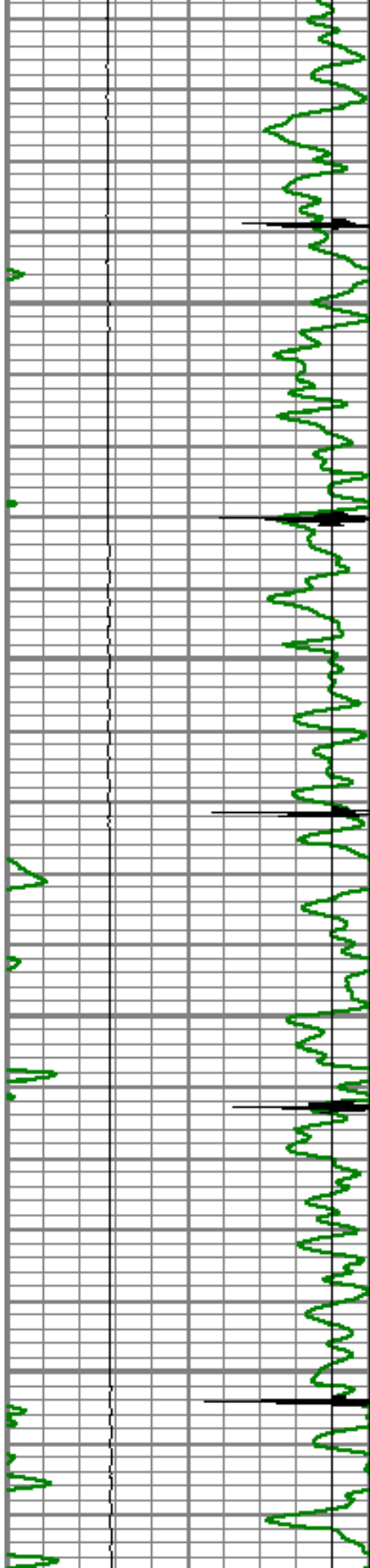
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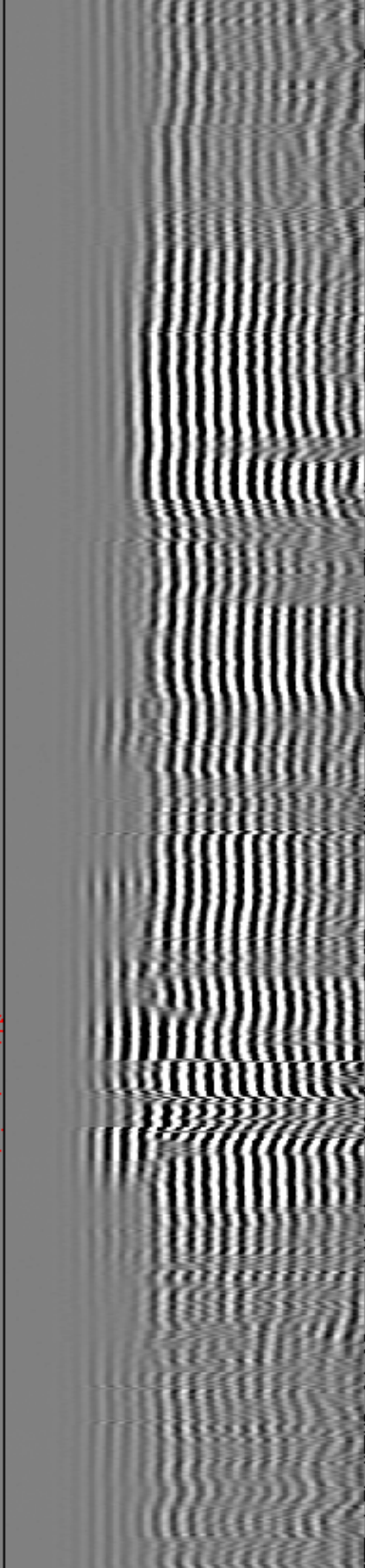
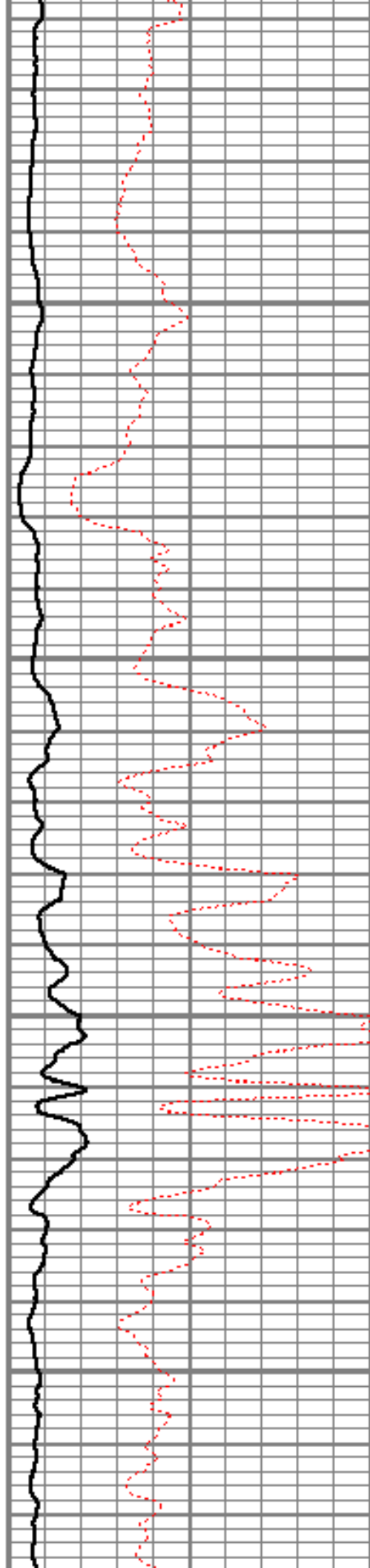


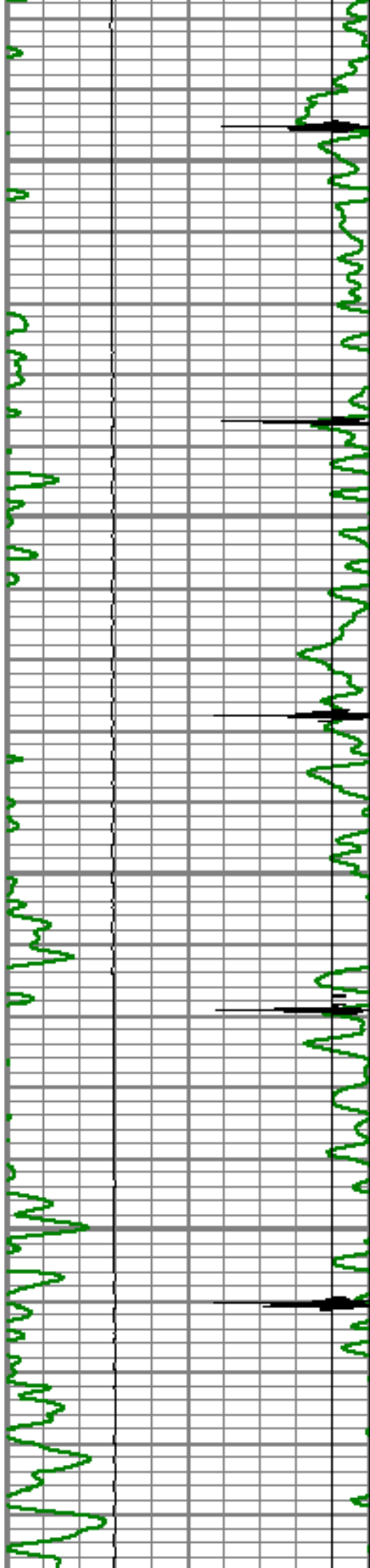
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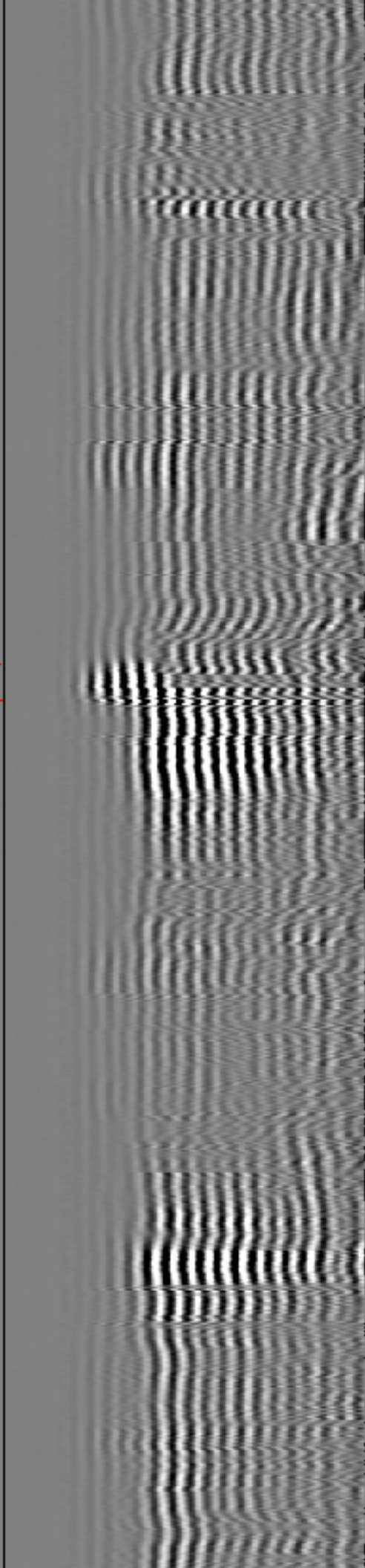
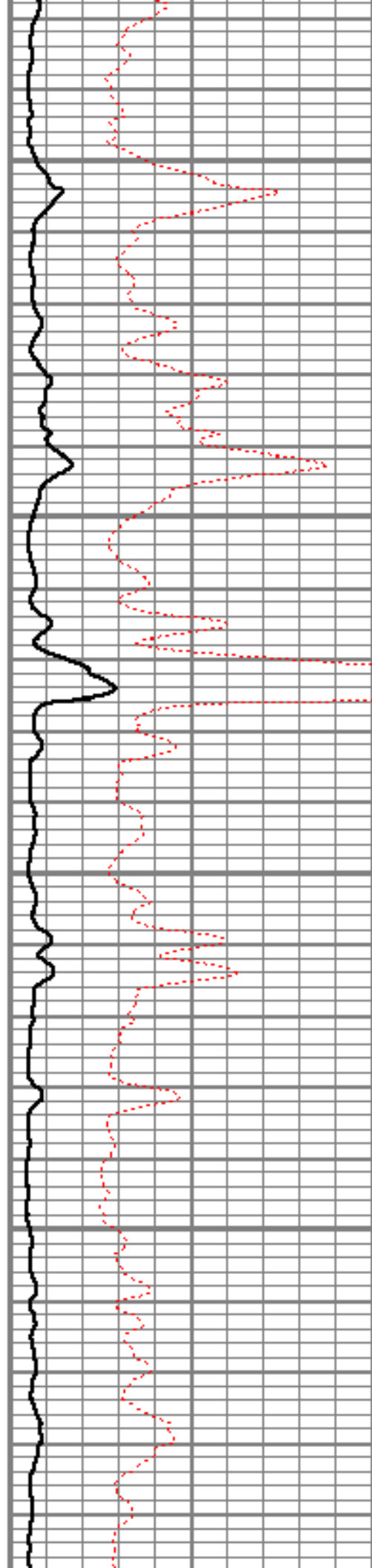


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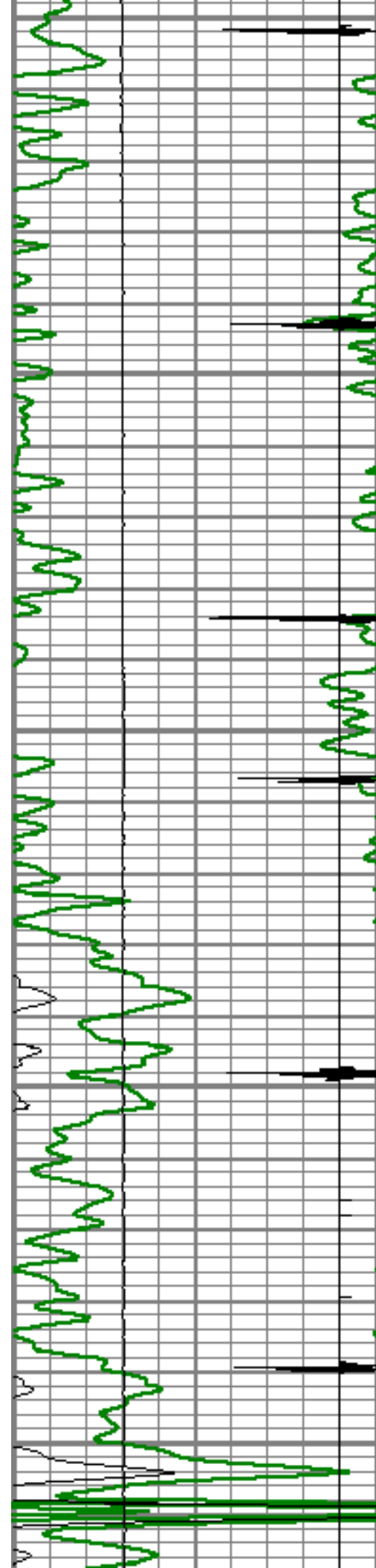
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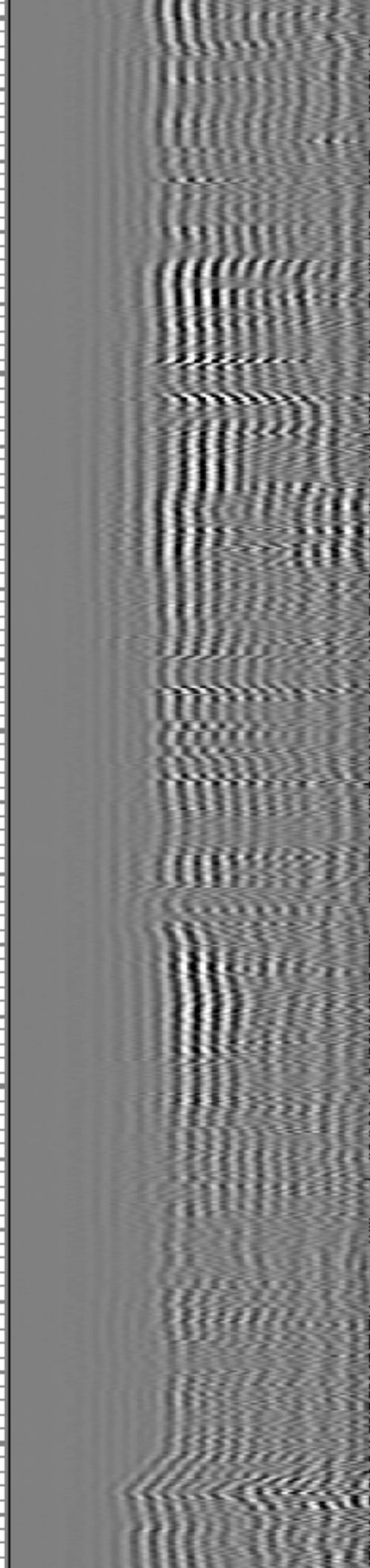
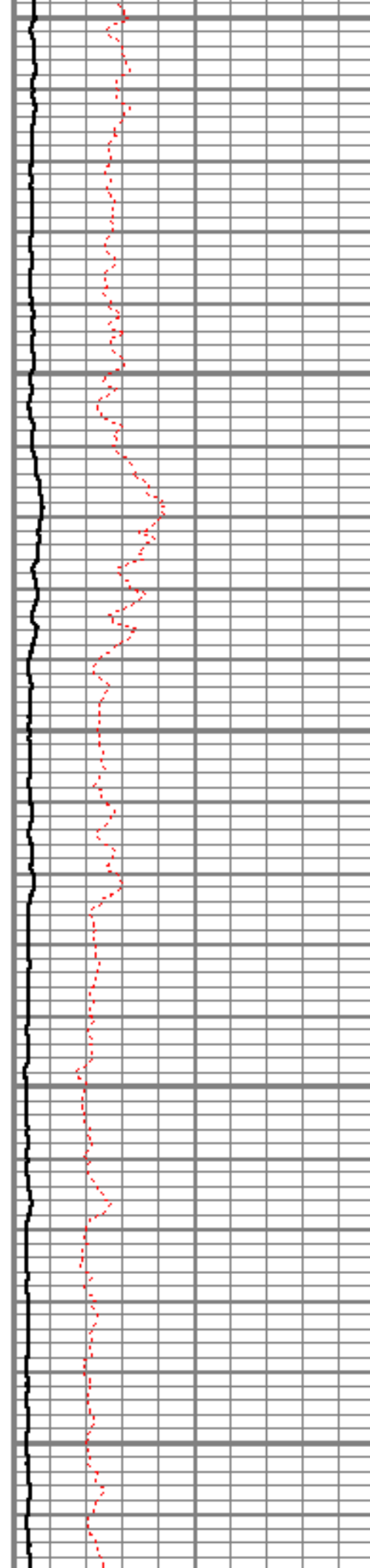
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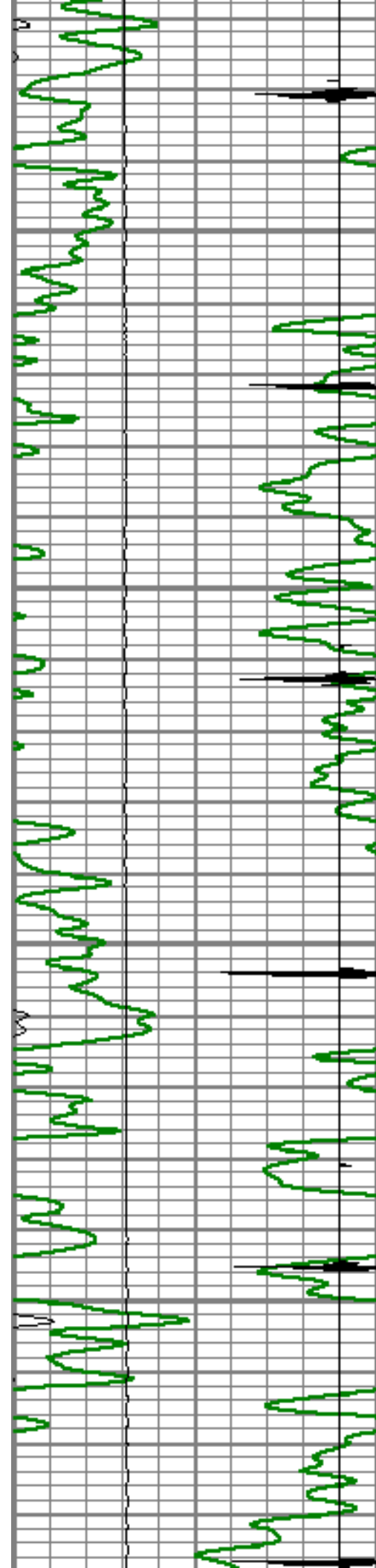
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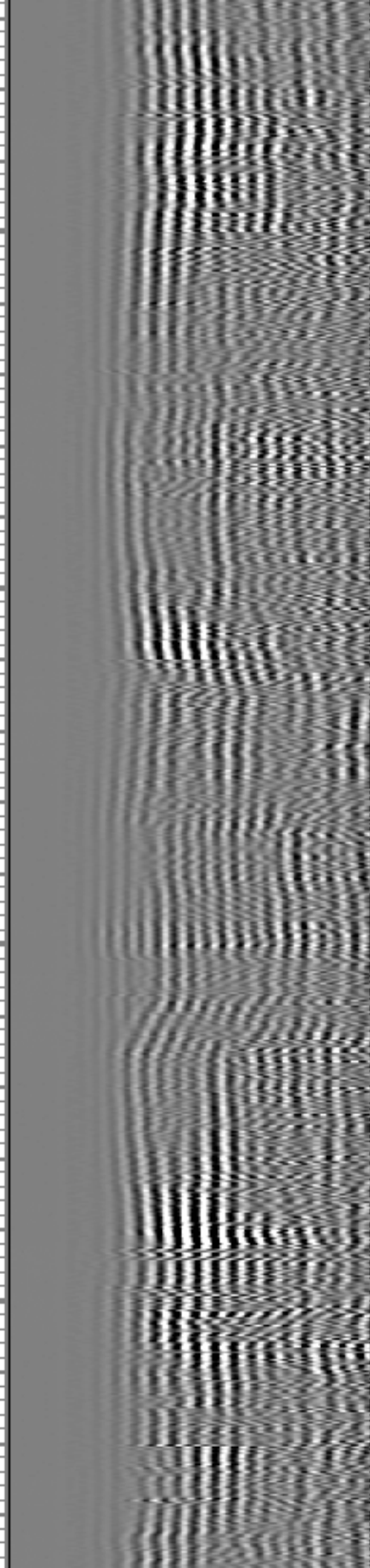
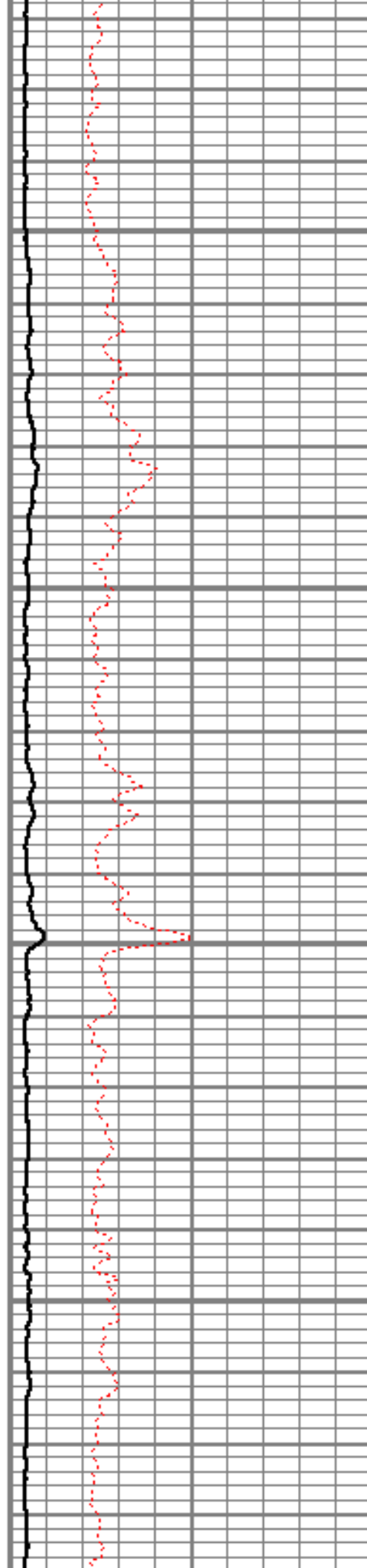


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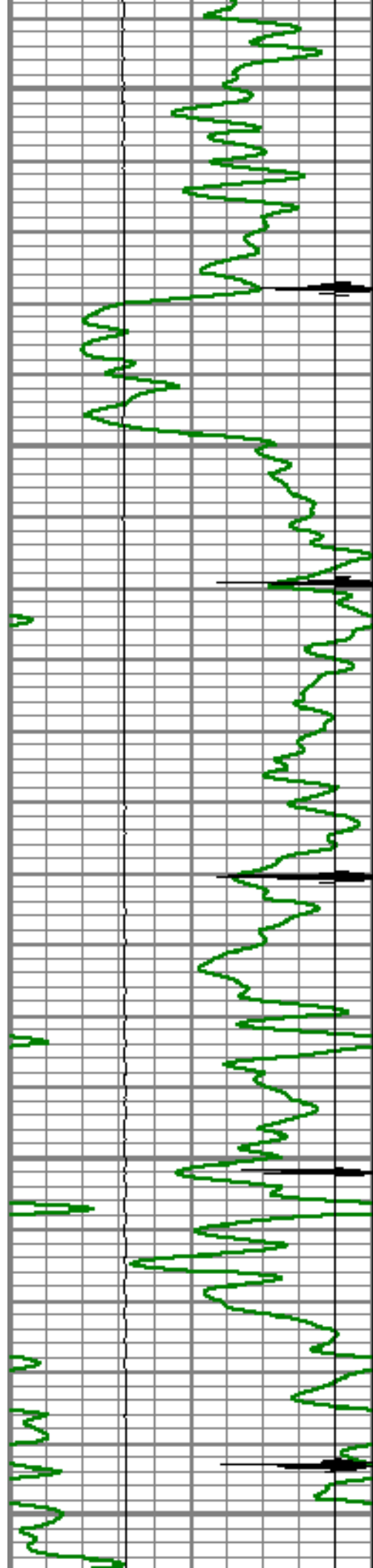
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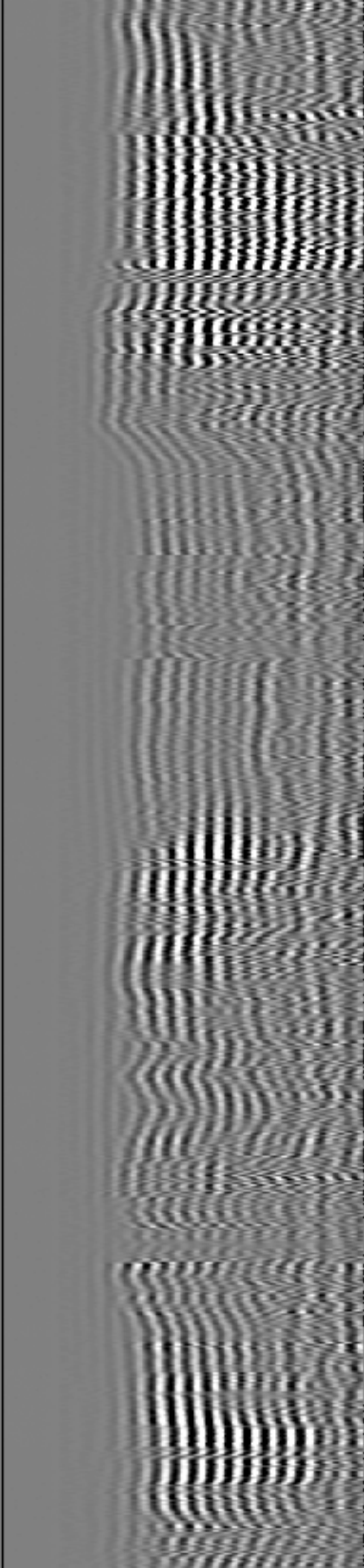
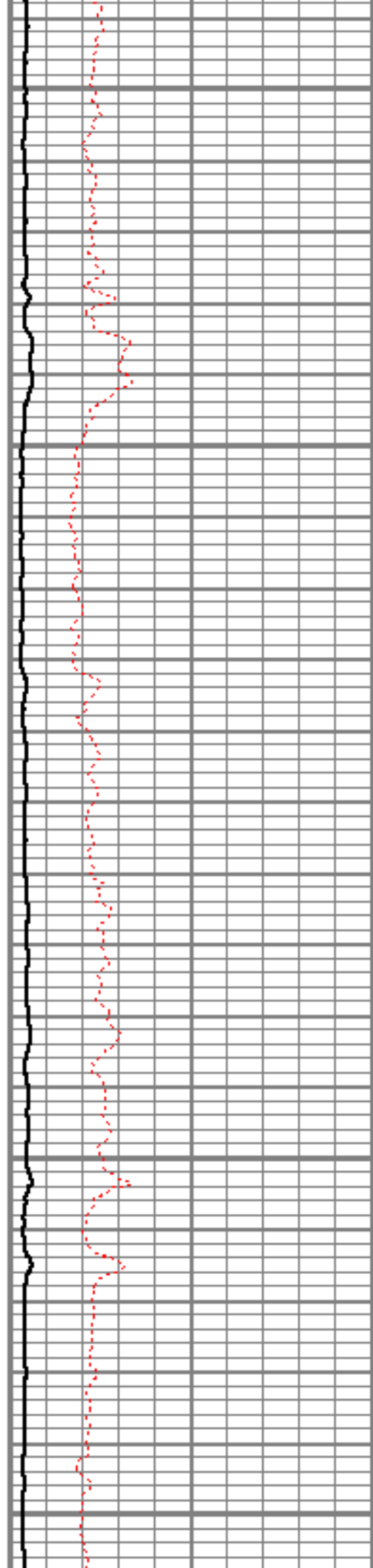
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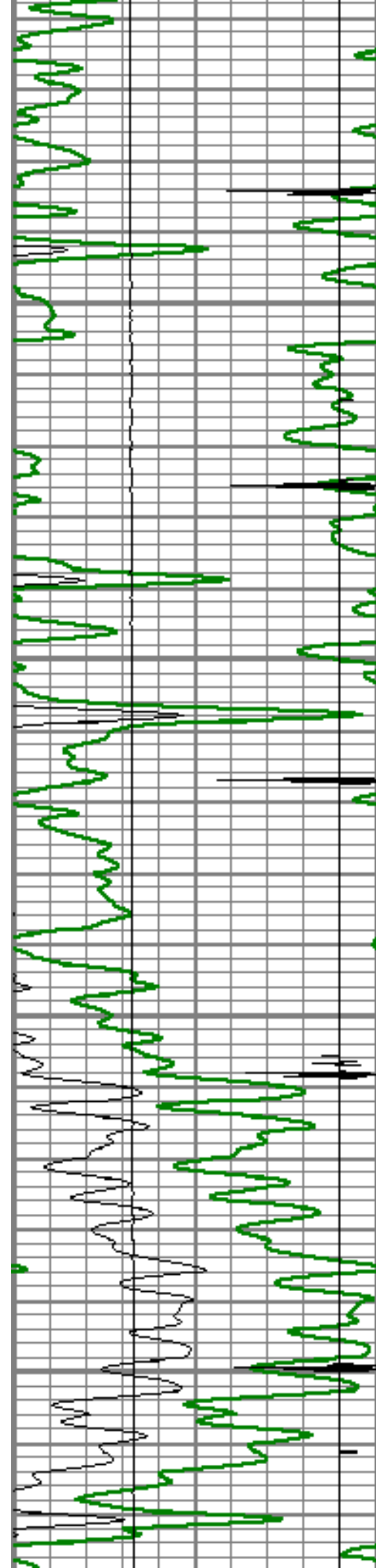
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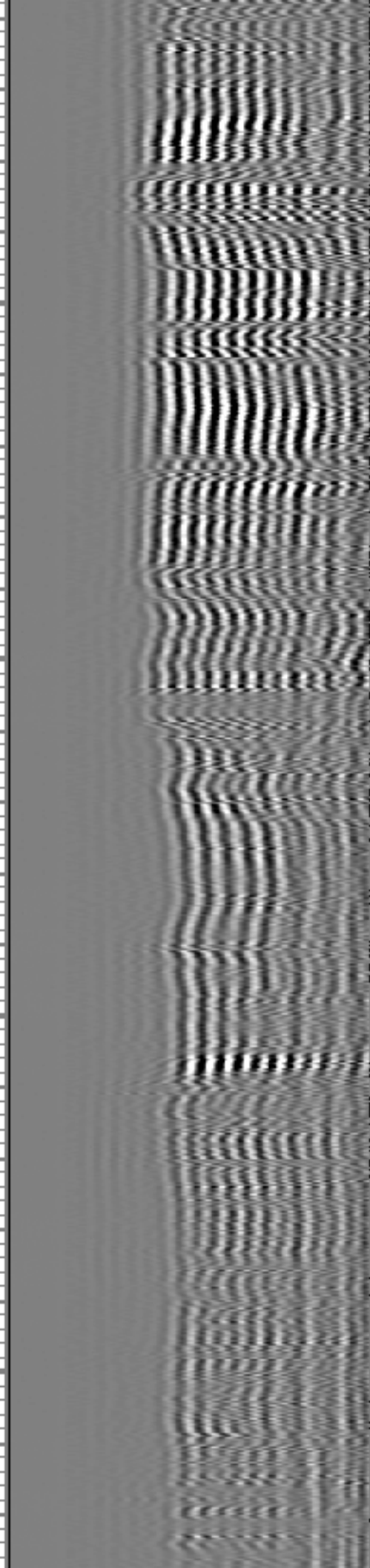
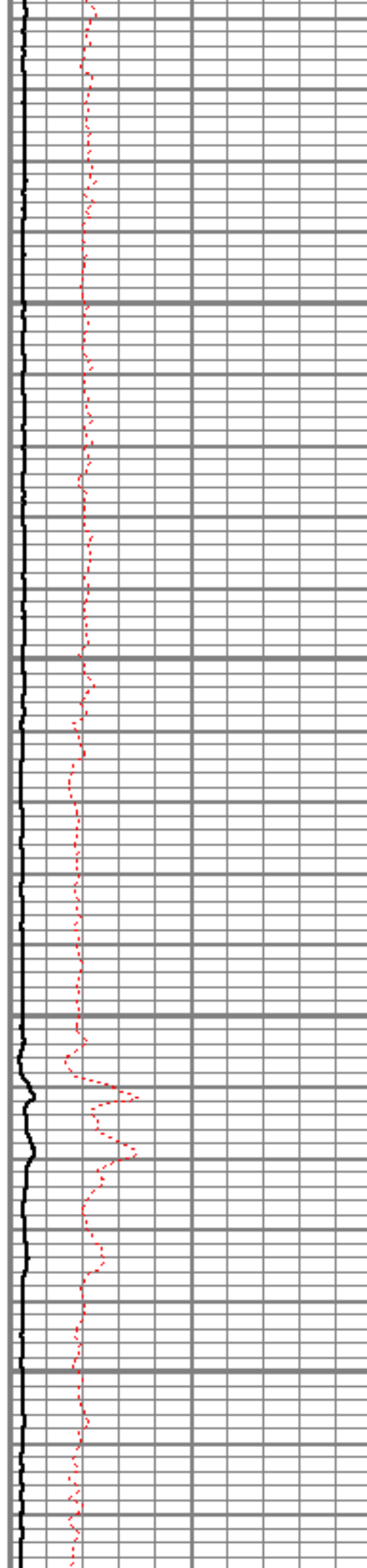


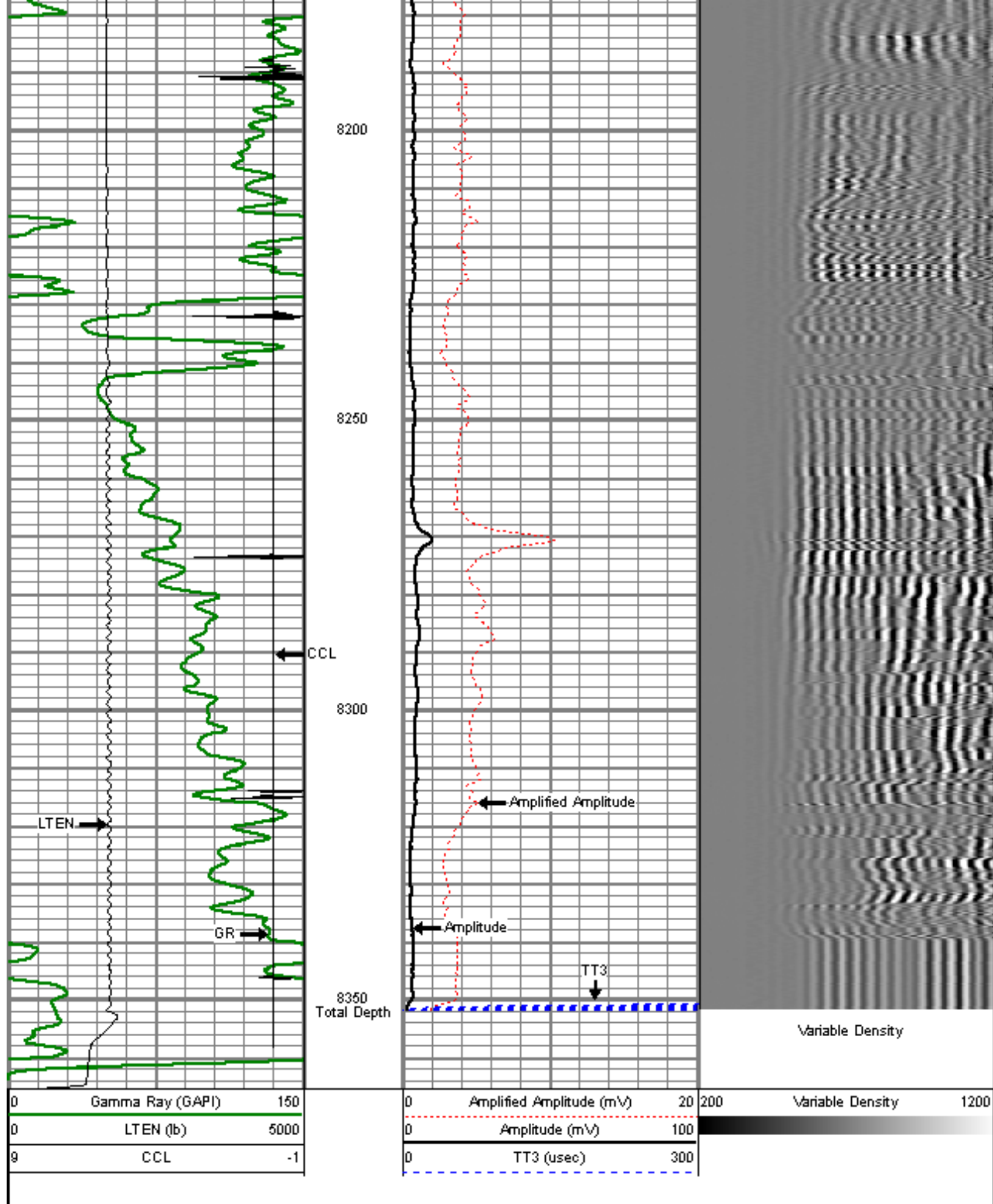
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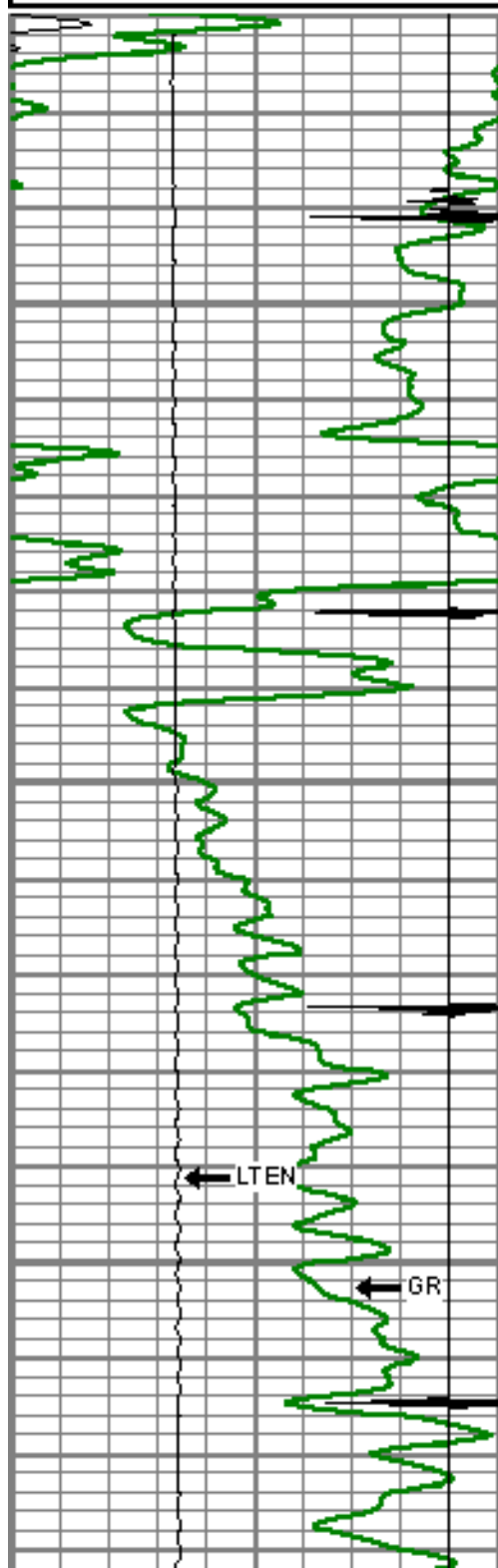


Database File: billings 31-34.db  
 Dataset Pathname: pass9  
 Presentation Format: dcbl\_prb  
 Dataset Creation: Mon May 23 11:03:59 2011 by Log SCH 110223  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
0	LTEN (lb)	5000
9	CCL	-1

0	Amplified Amplitude (mV)	20
0	Amplitude (mV)	100
0	TT3 (usec)	300

200	Variable Density	1200
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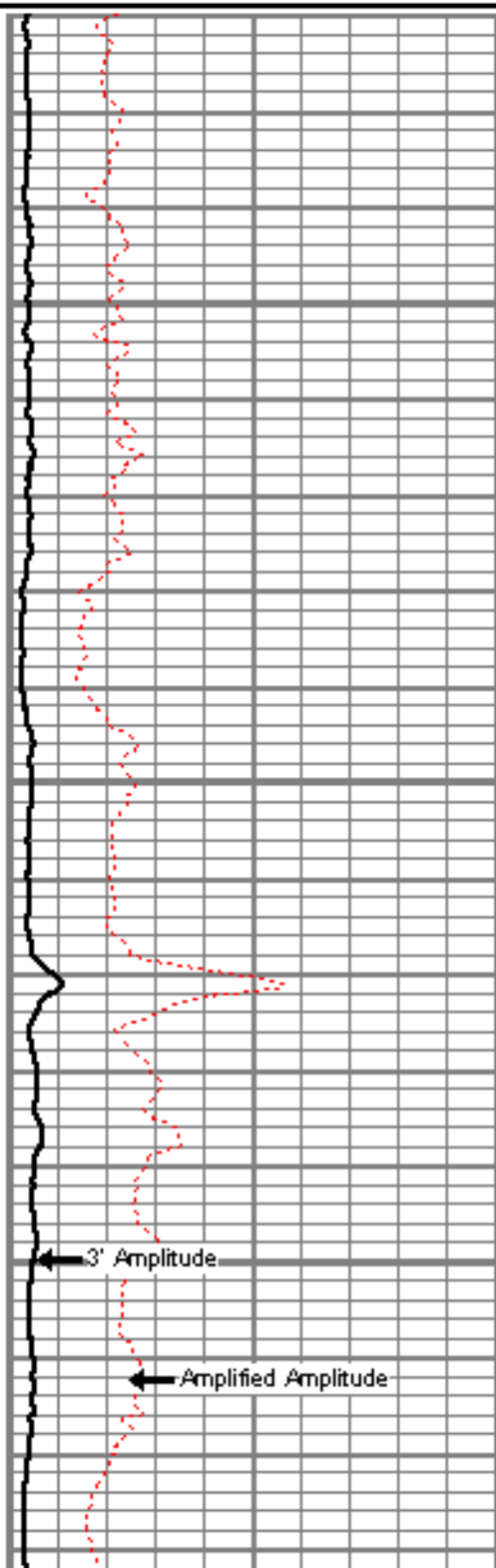
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← LTEN

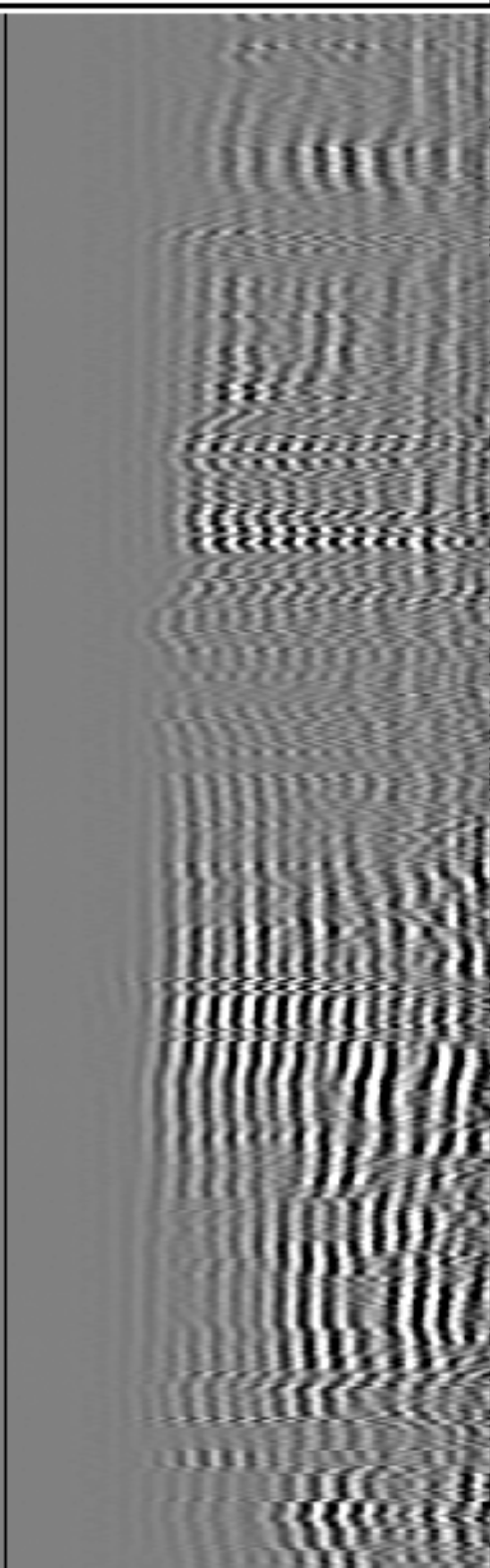
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← CCL

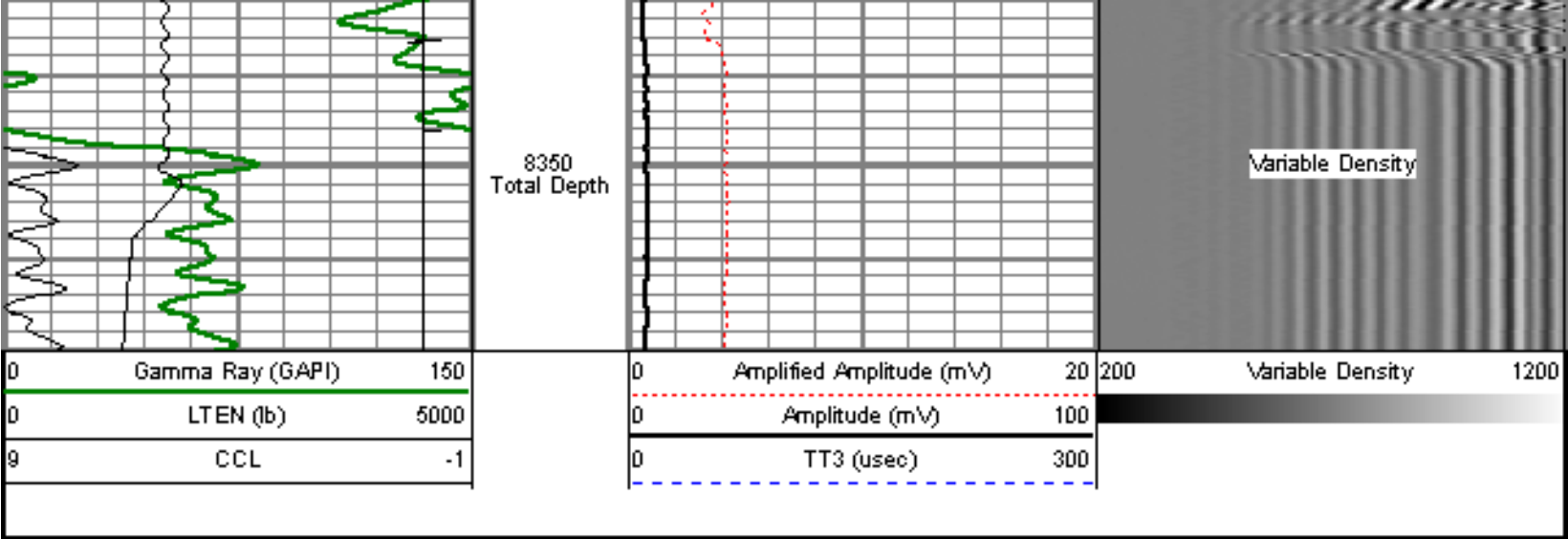


← 3' Amplitude

← Amplified Amplitude







Company            ENCANA OIL & GAS (USA) INC.  
Well                BILLINGS 31-34  
Field                SPINDLE  
County              WELD  
State                COLORADO