

# CEMENT BOND LOG

# Mesa Wireline

Company ENCANA OIL & GAS ( USA)  
Well RASMUSSEN 11-28  
Field WATTENBERG  
County WELD  
State COLORADO

Company ENCANA OIL & GAS ( USA)  
Well RASMUSSEN 11-28  
Field WATTENBERG  
County WELD State COLORADO

Location: API #: 05-123-32894-0000  
SHL: 1962' FNL & 1770' FWL  
BHL: 510' FNL & 800' FWL  
SEC. 28 TWP. 2N RGE. 68W  
Permanent Datum GROUND LEVEL Elevation  
Log Measured From KELLY BUSHING = 13'  
Drilling Measured From KELLY BUSHING  
Other Services  
NONE  
Elevation  
K.B. 4948'  
D.F. 4949'  
G.L. 4935'

Date 6 APRIL 2013

Run Number	ONE
Depth Driller	8424'
Depth Logger	8384'
Bottom Logged Interval	8384'
Top Log Interval	860'
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	~8.34 LBS/GAL
Max. Recorded Temp.	235 DEGF
Estimated Cement Top	3060'
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	W0059
Location	AULT, CO
Recorded By	V. FULLER
Witnessed By	T. MAUDERS

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	0'	800'				
TWO	7.875"	0'	8406'				

Casing Record		Size	Wt/ft	Top	Bottom
Surface String	8.625"	24#	0'	848'	
Prot. String					
Production String	4.50"	11.6#	0'	8446'	
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 NOT CORRELATED TO ANY OTHER WELL  
SHORT JOINT 7499' - 7520'

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

## TOP PASS

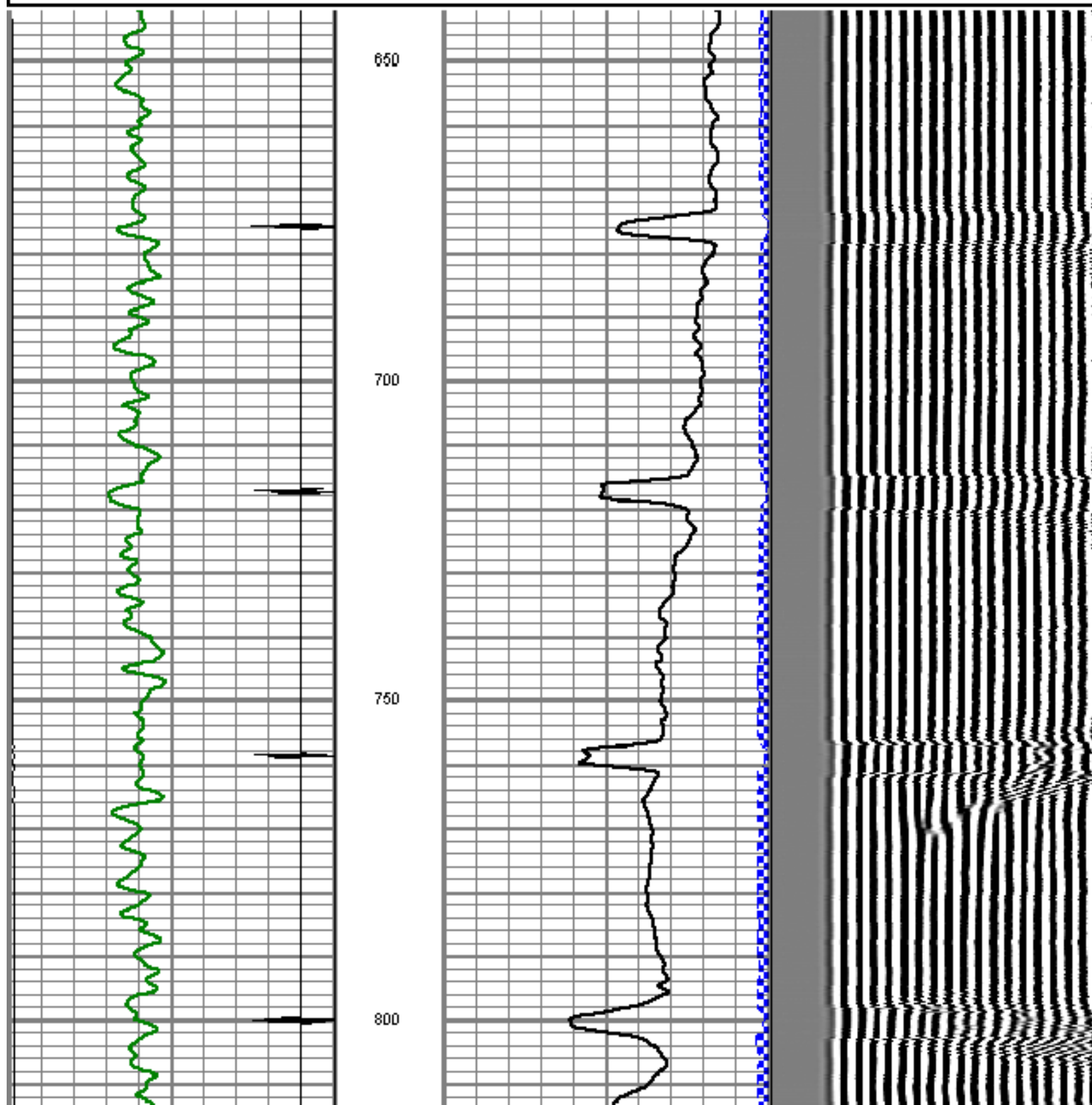


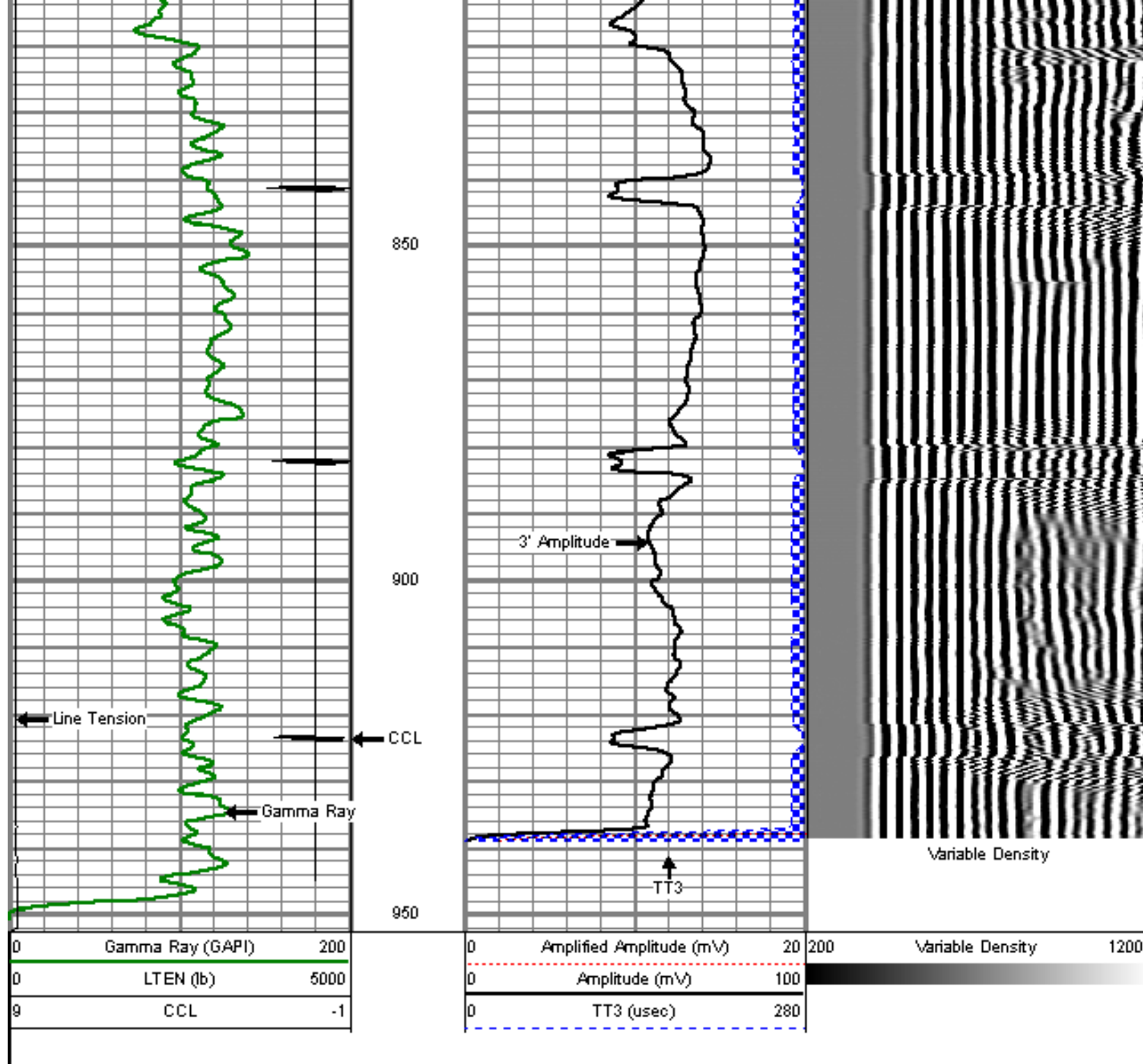
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Dataset Pathname: pass11  
Presentation Format: dcbl\_prb  
Dataset Creation: Sat Apr 06 12:22:51 2013 by Log Std Casedhole 09061  
Charted by: Depth in Feet scaled 1:240

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

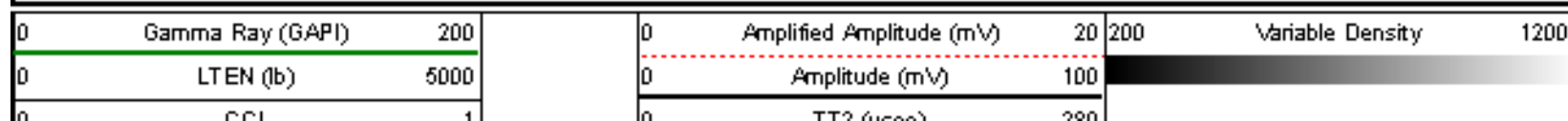




REPEAT PASS

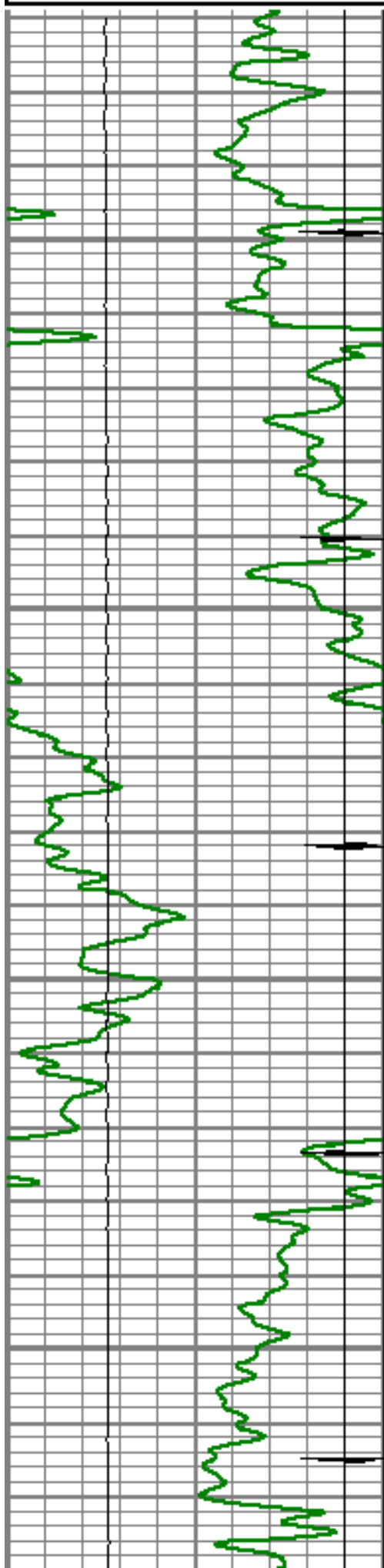
5' = 100'

Database File: rasmussen 11-28.db  
 Dataset Pathname: pass9  
 Presentation Format: dcbl\_prb  
 Dataset Creation: Sat Apr 06 10:40:48 2013 by Log Std Casedhole 09061  
 Charted by: Depth in Feet scaled 1:240



000 000 000

0 100 (usec) 200

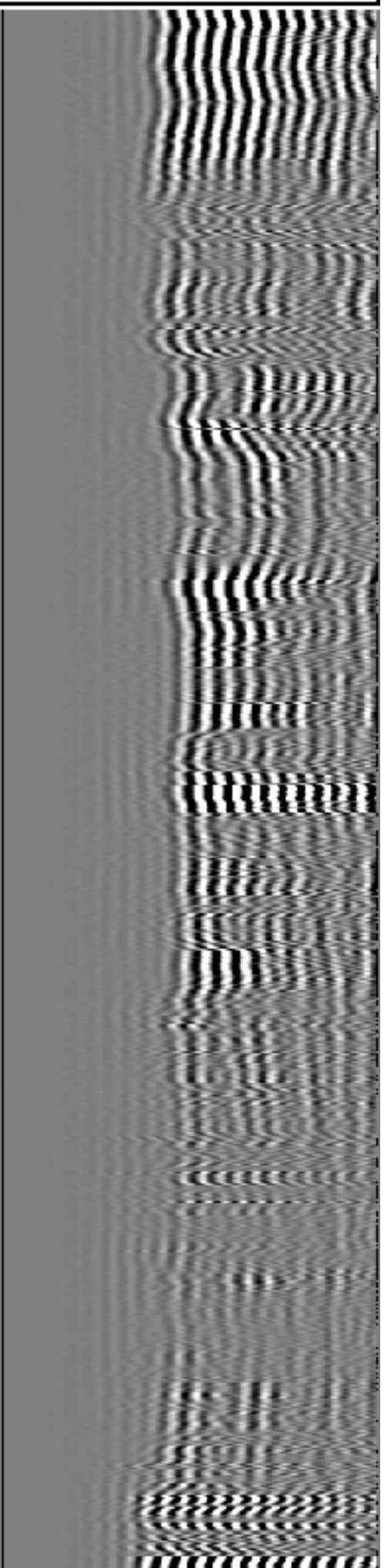
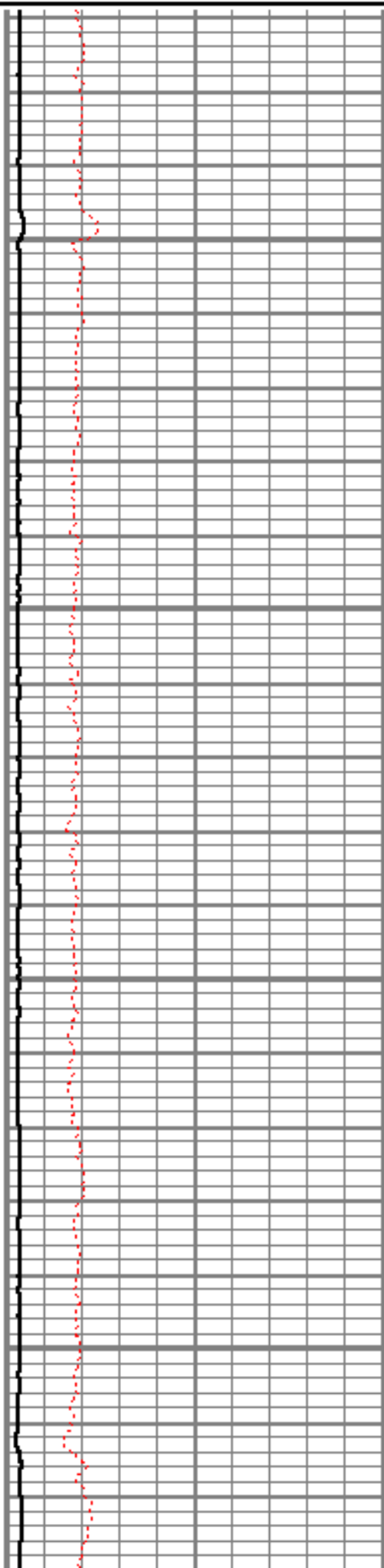


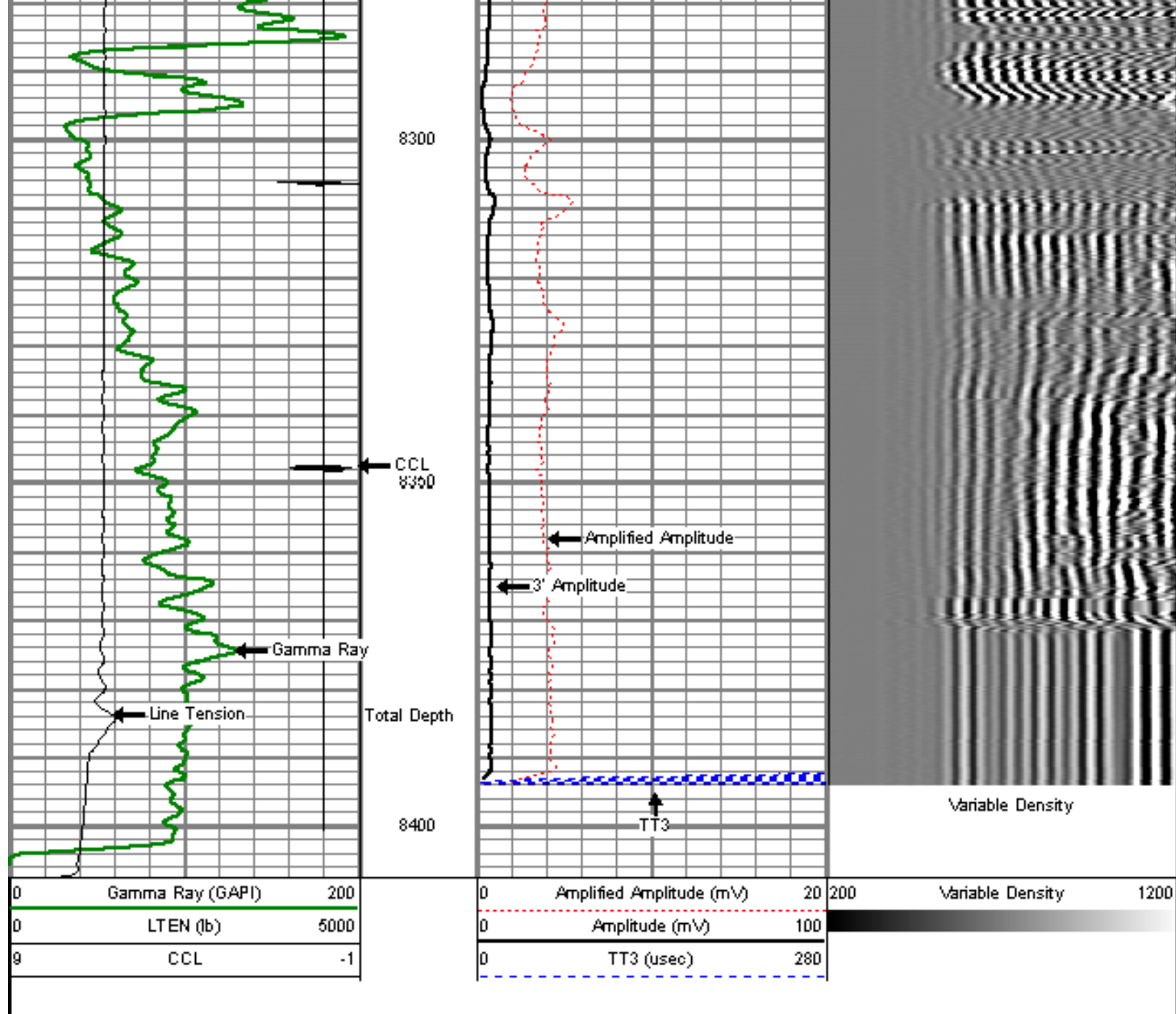
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8150

8200

8250





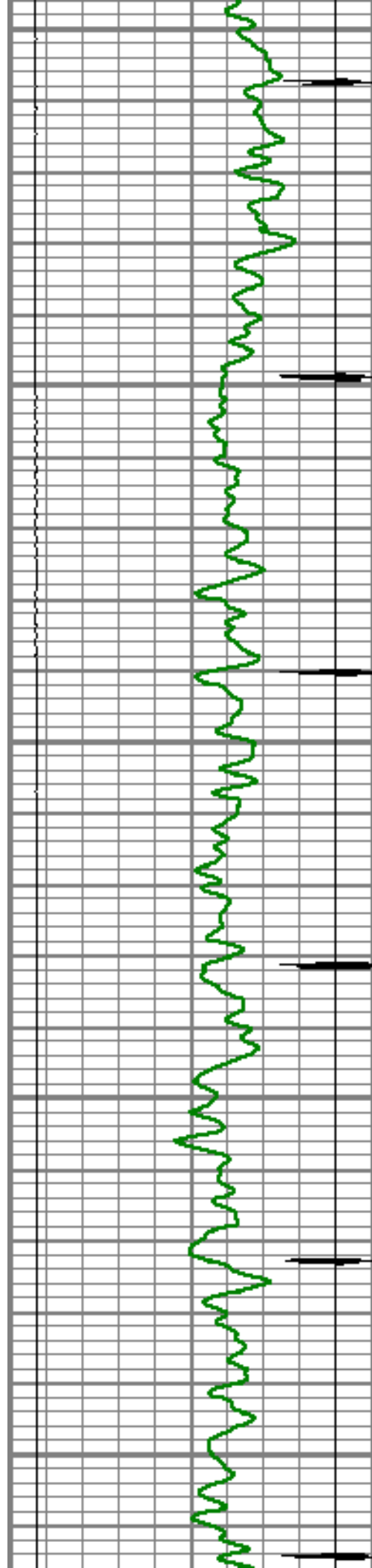
## MAIN PASS

5" = 100'

Database File: rasmussen 11-28.db  
 Dataset Pathname: pass10  
 Presentation Format: dcbl\_prb  
 Dataset Creation: Sat Apr 06 10:48:27 2013 by Log Std Casedhole 09061  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200	0	Amplified Amplitude (mV)	20	200	Variable Density	1200
0	LTEN (lb)	5000	0	Amplitude (mV)	100			
9	CCL	-1	0	TT3 (uSec)	280			





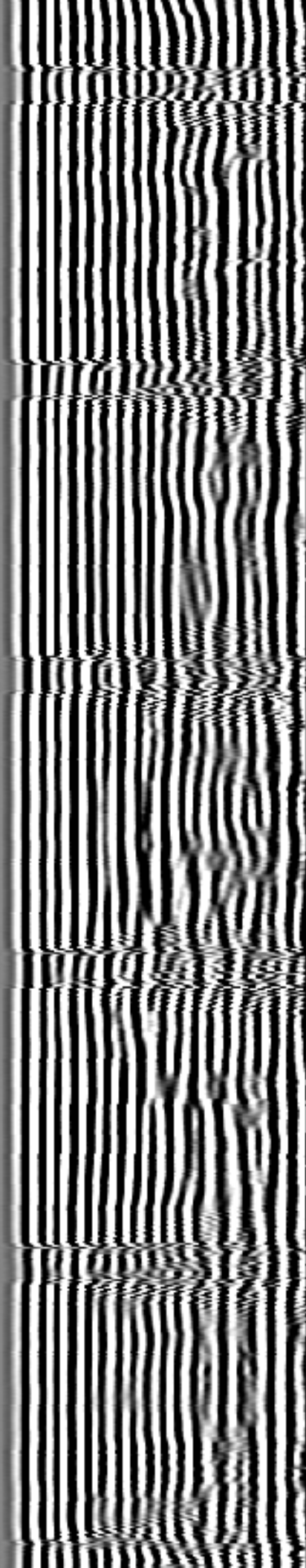
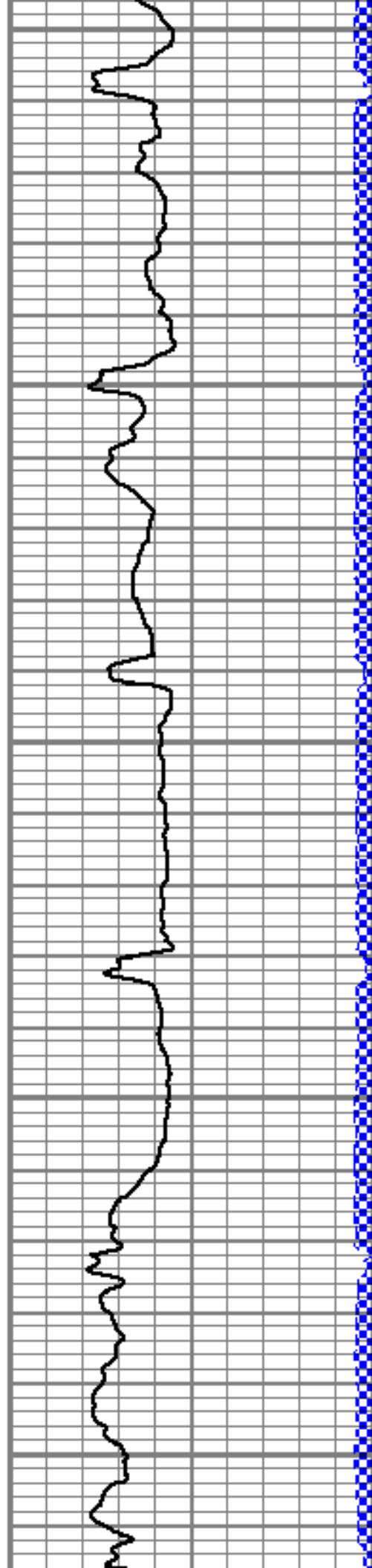
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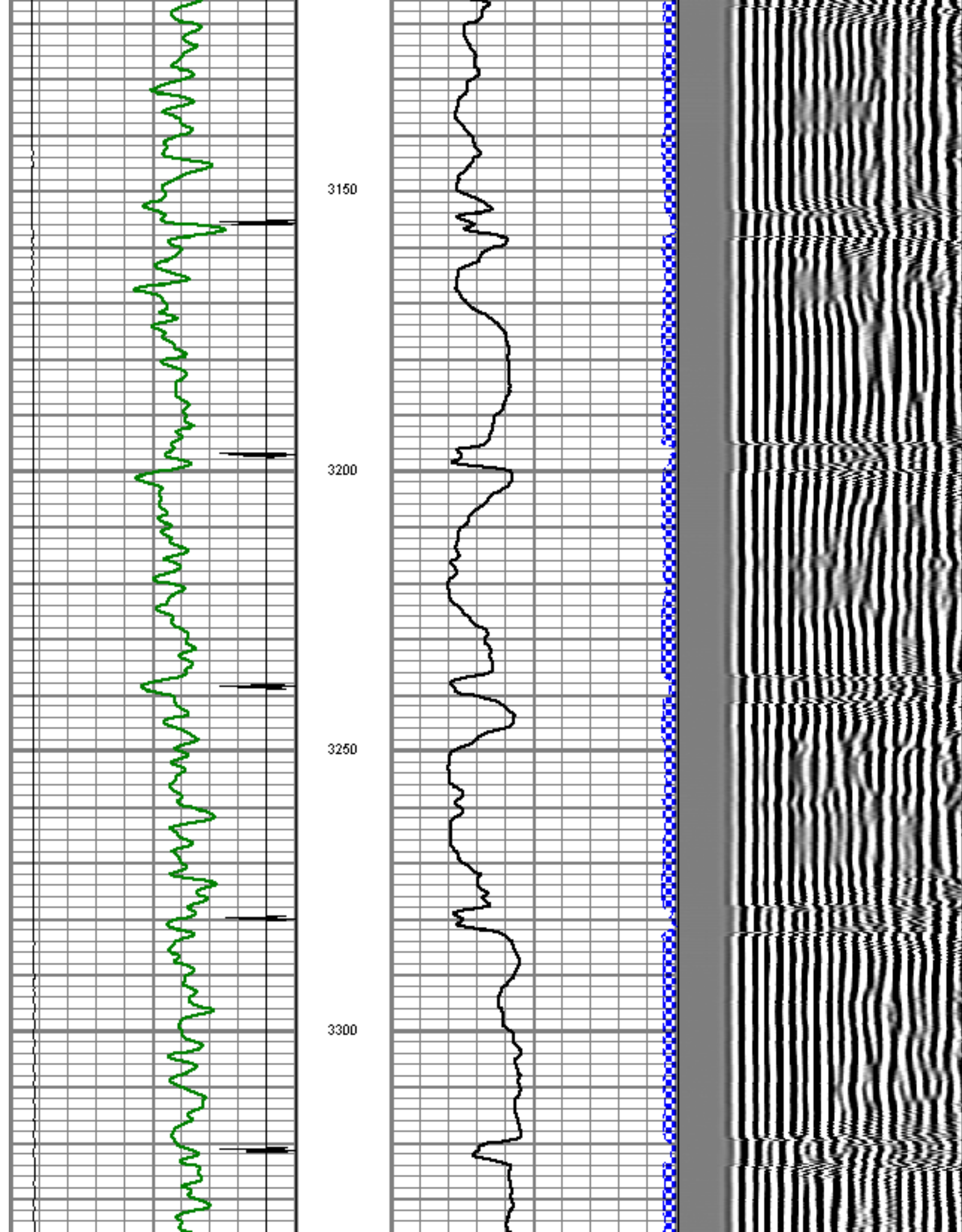
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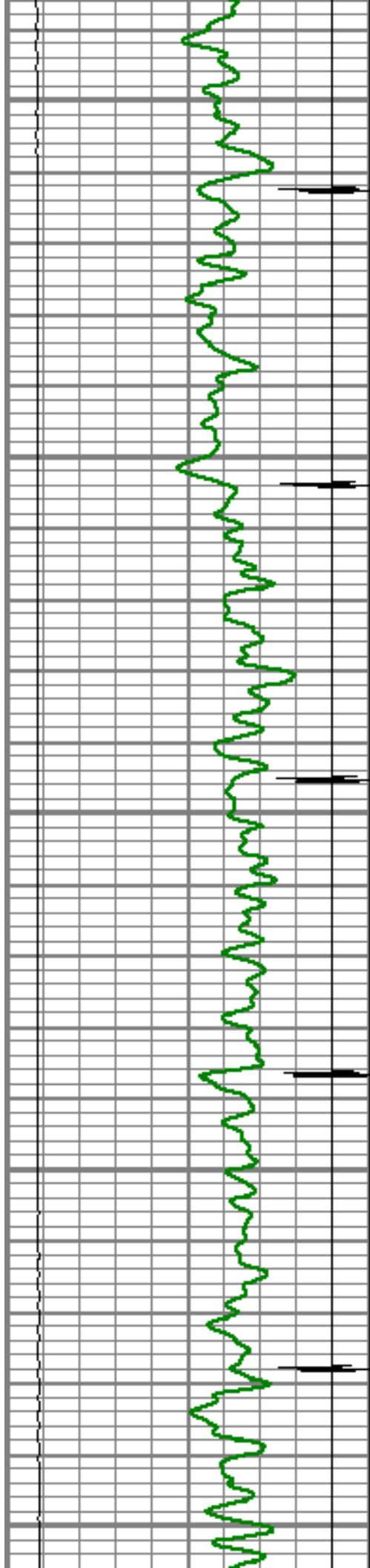
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3050

3100







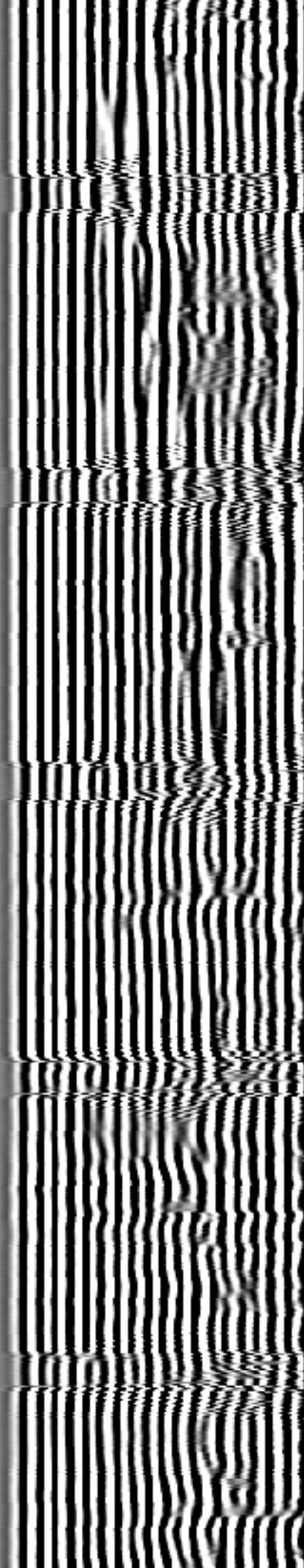
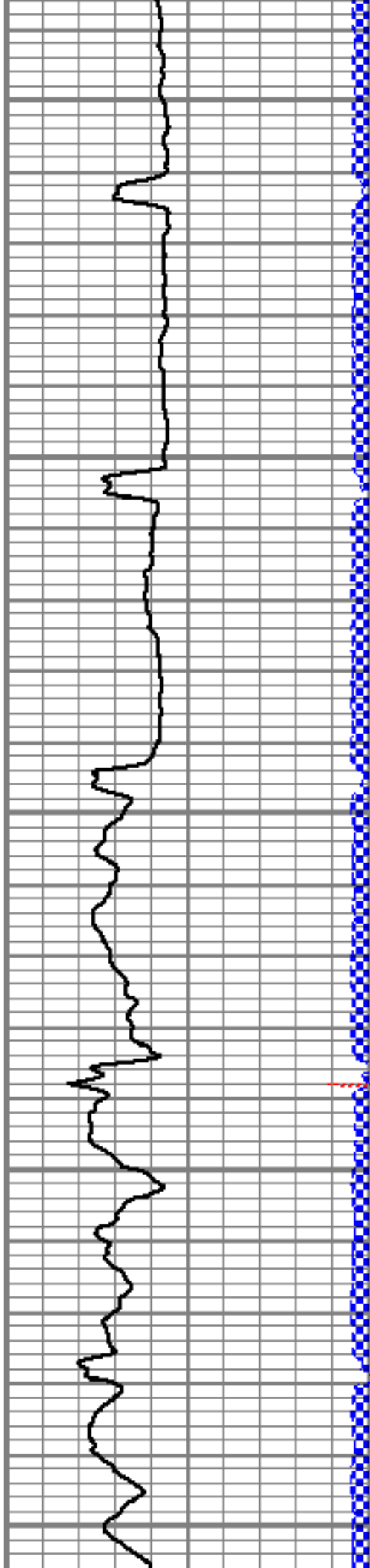
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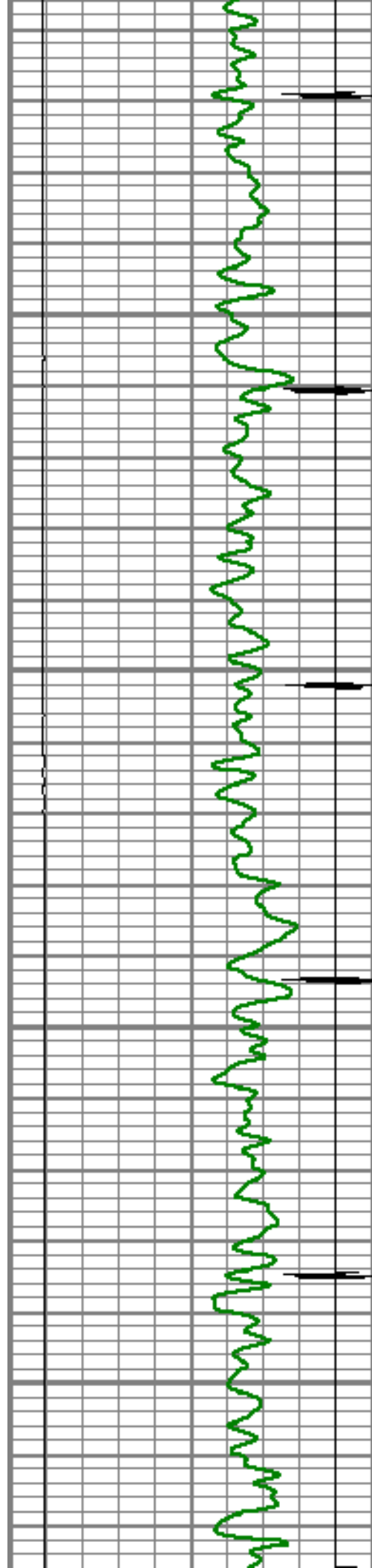
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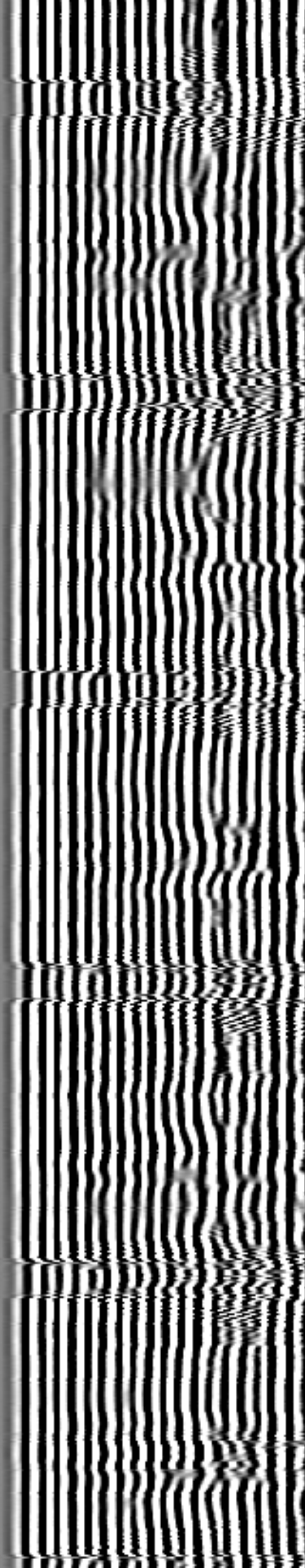
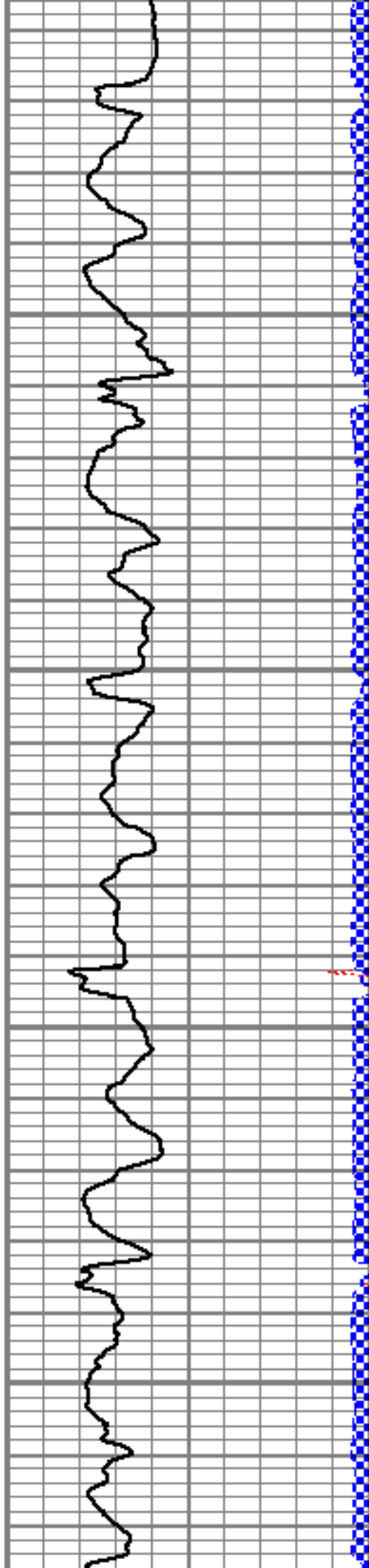


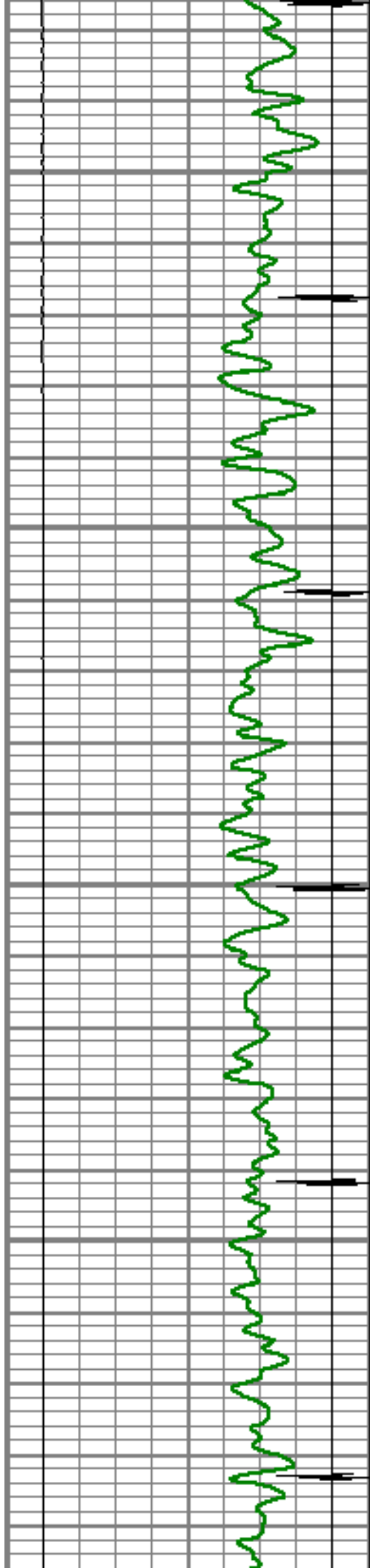
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3700

3750



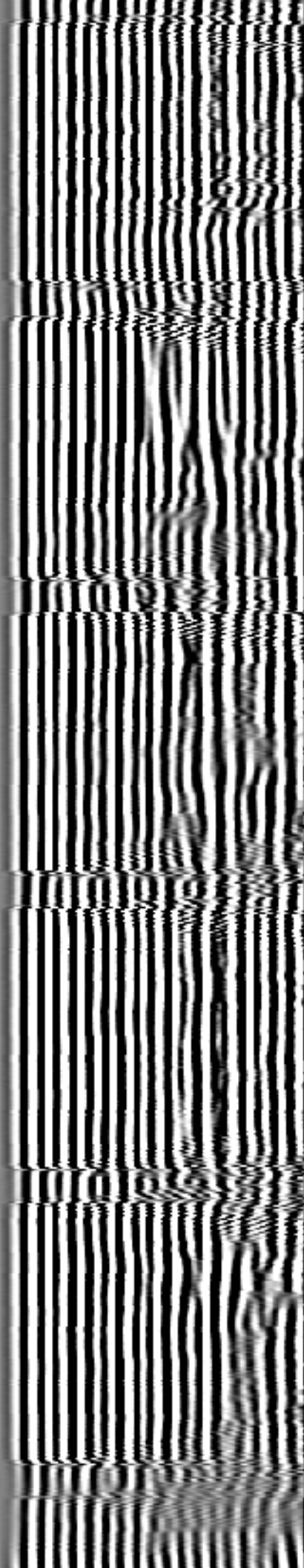
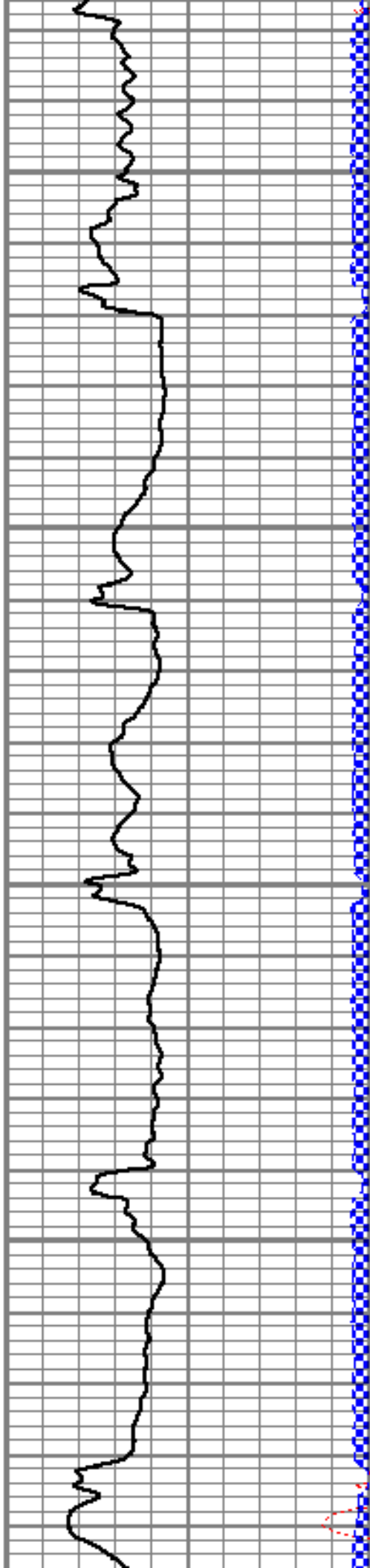


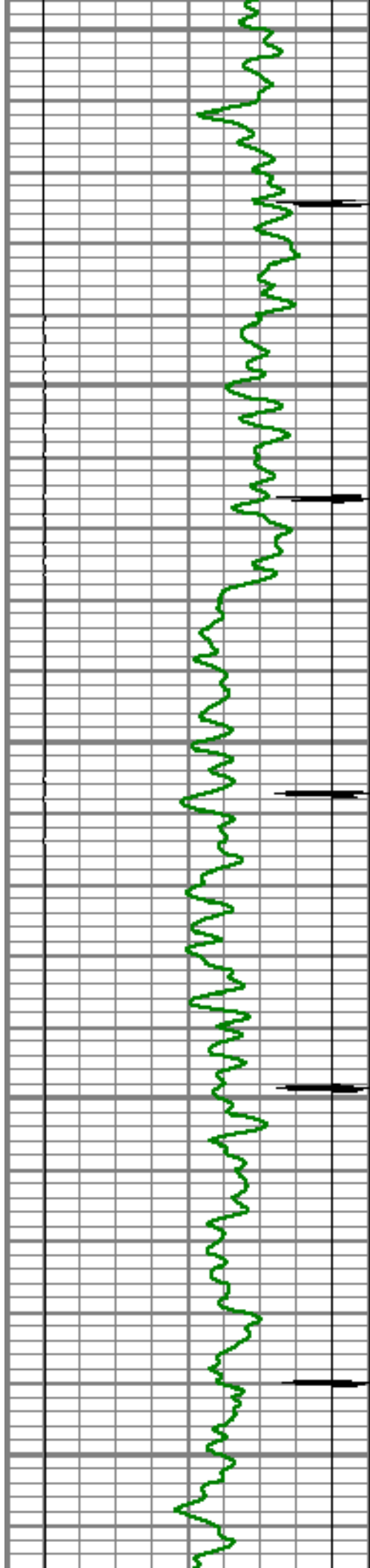
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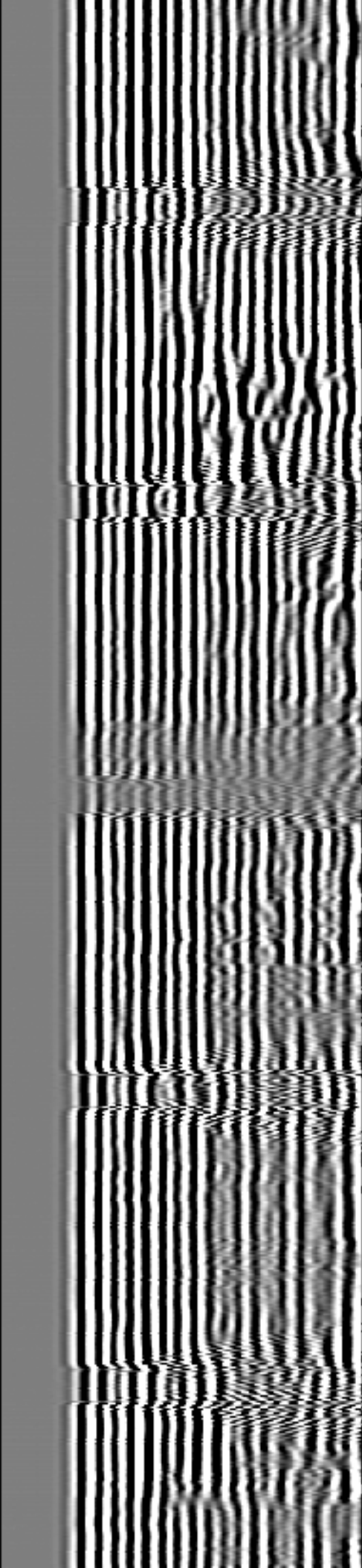
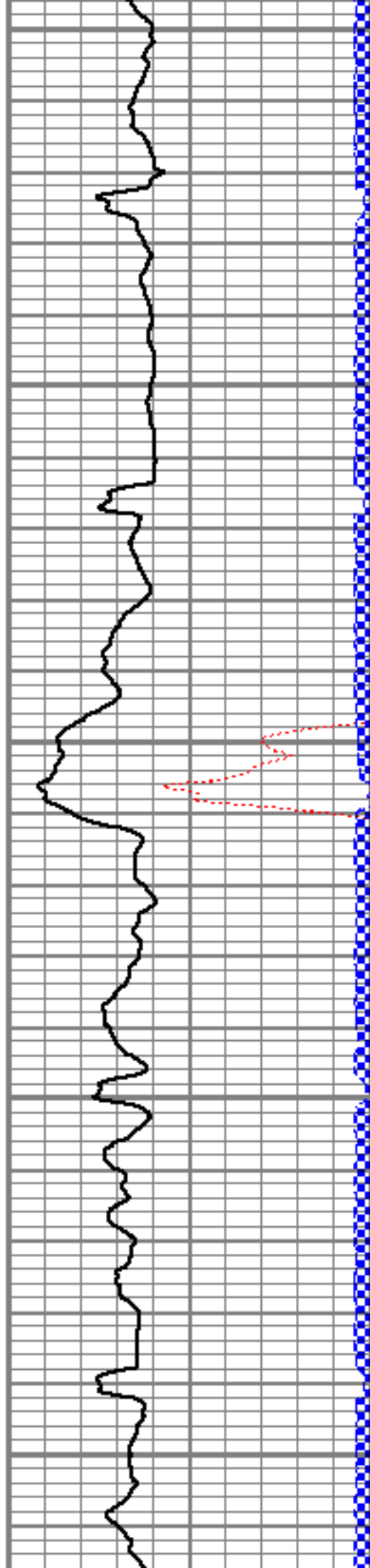
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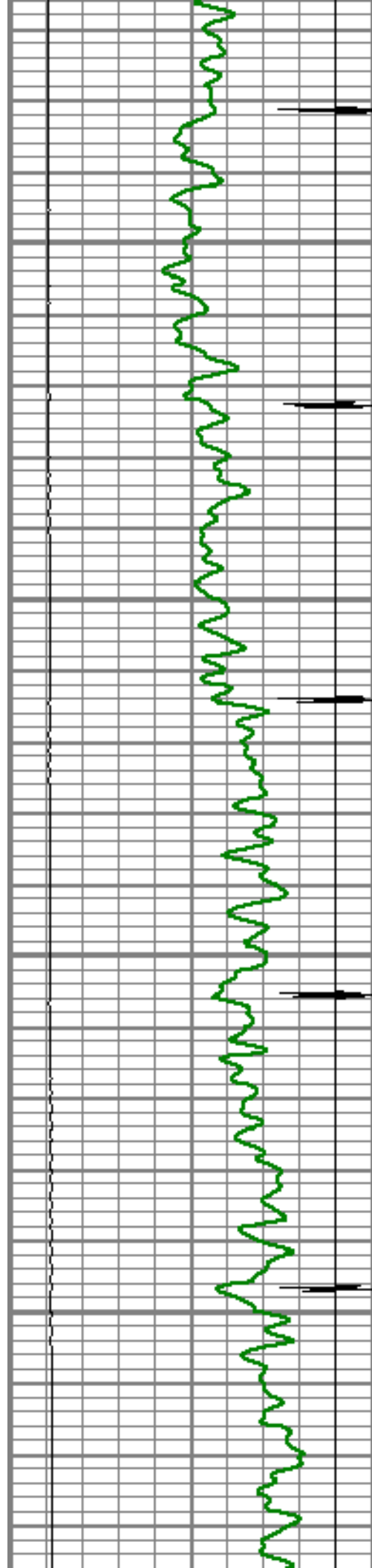
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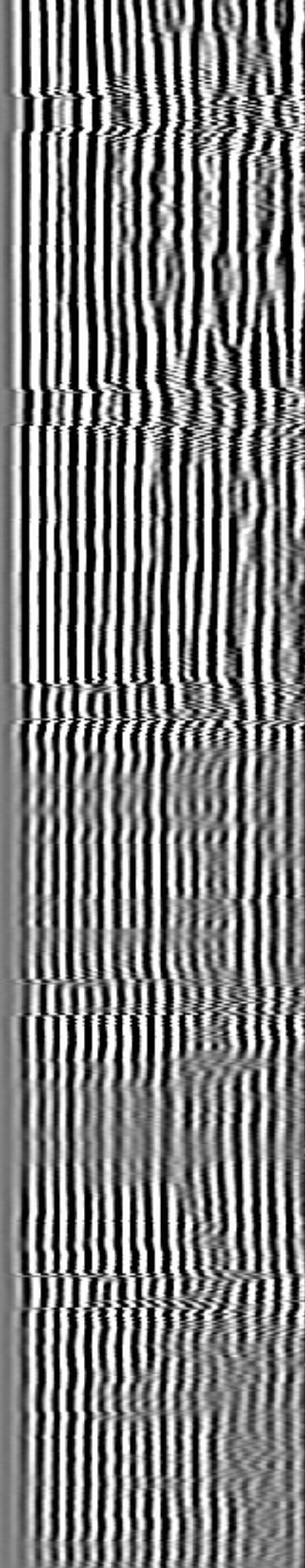
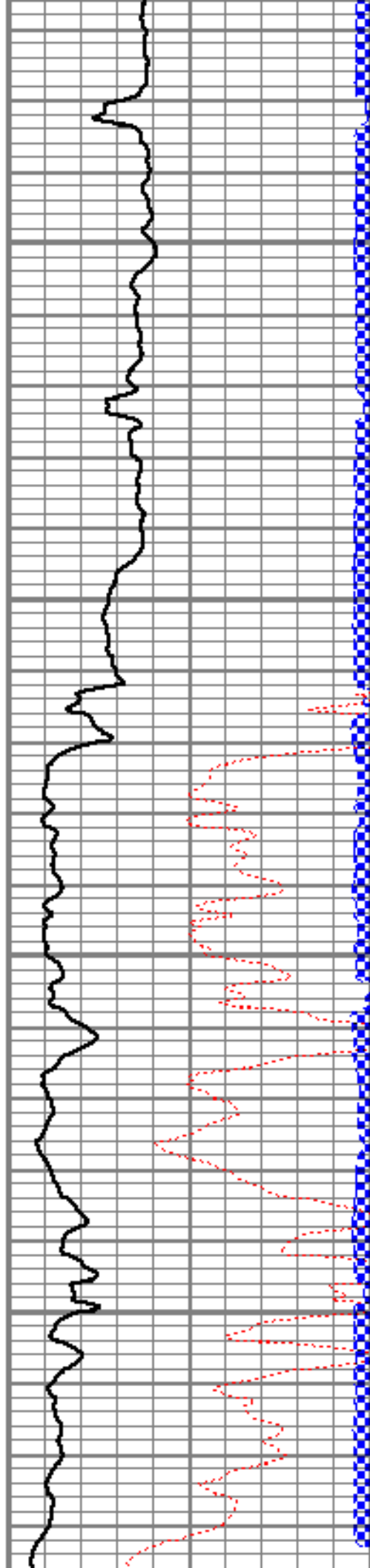


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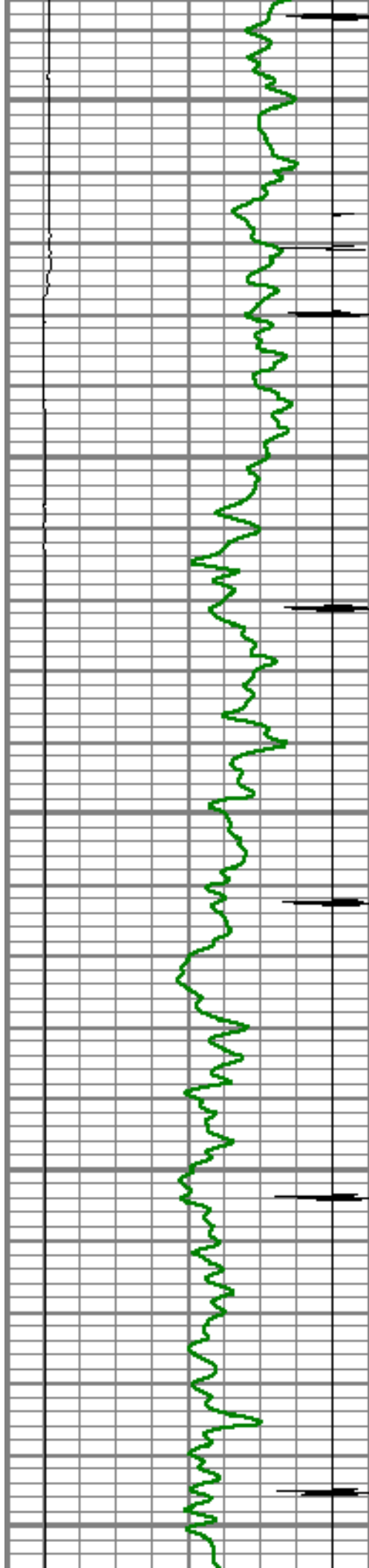
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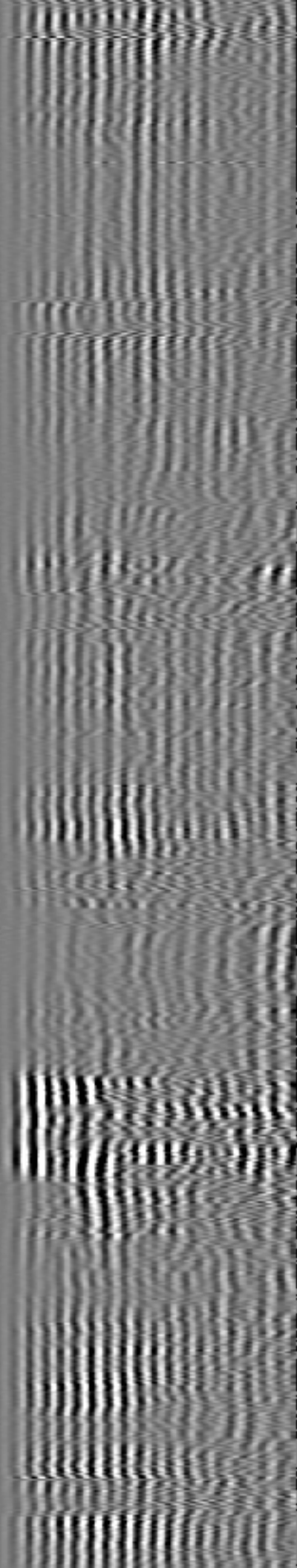
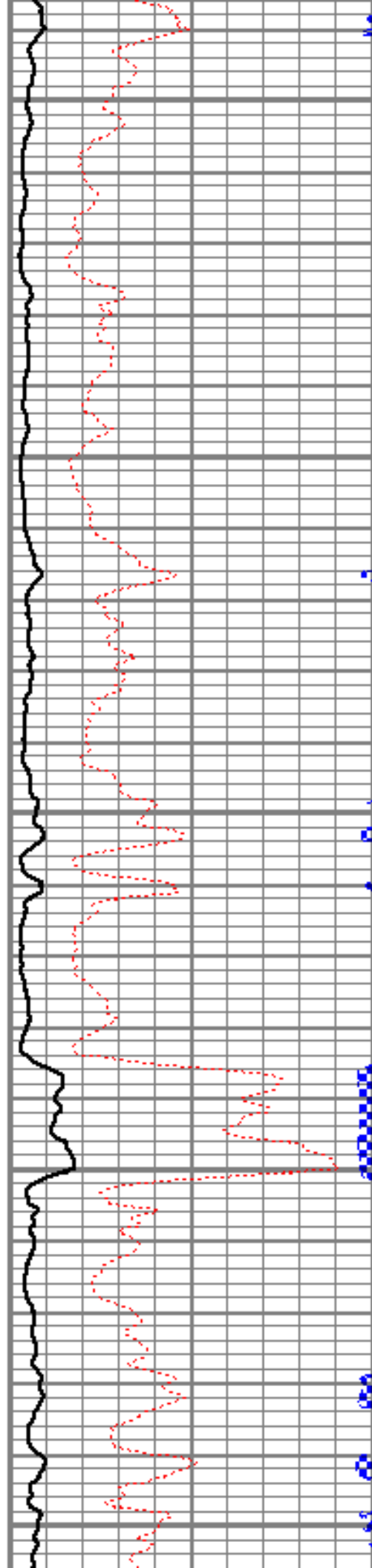
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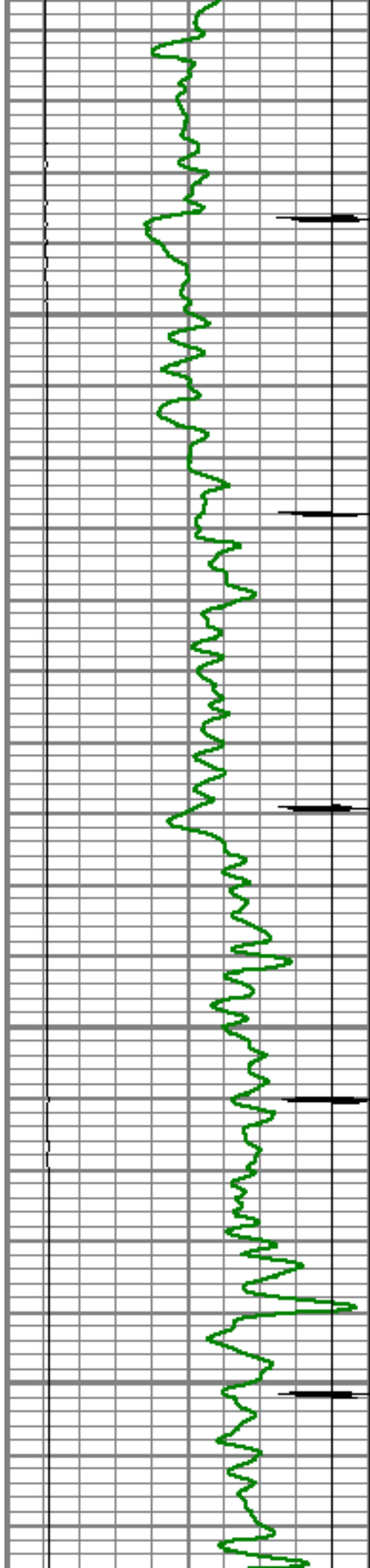
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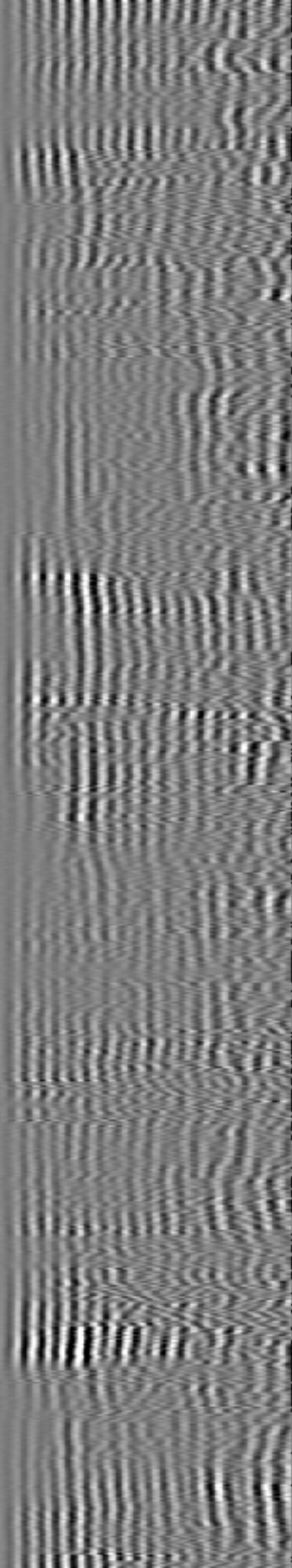
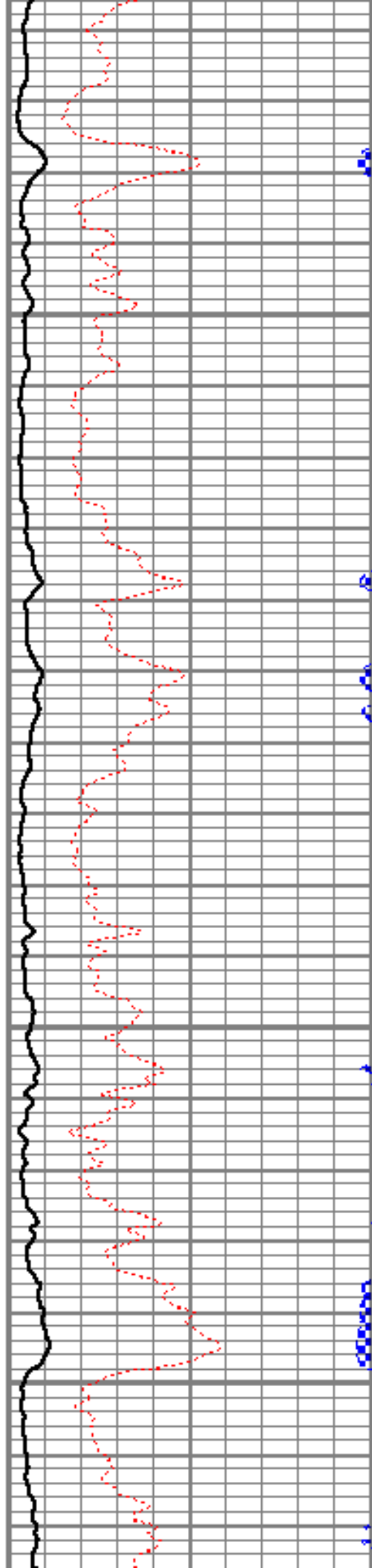


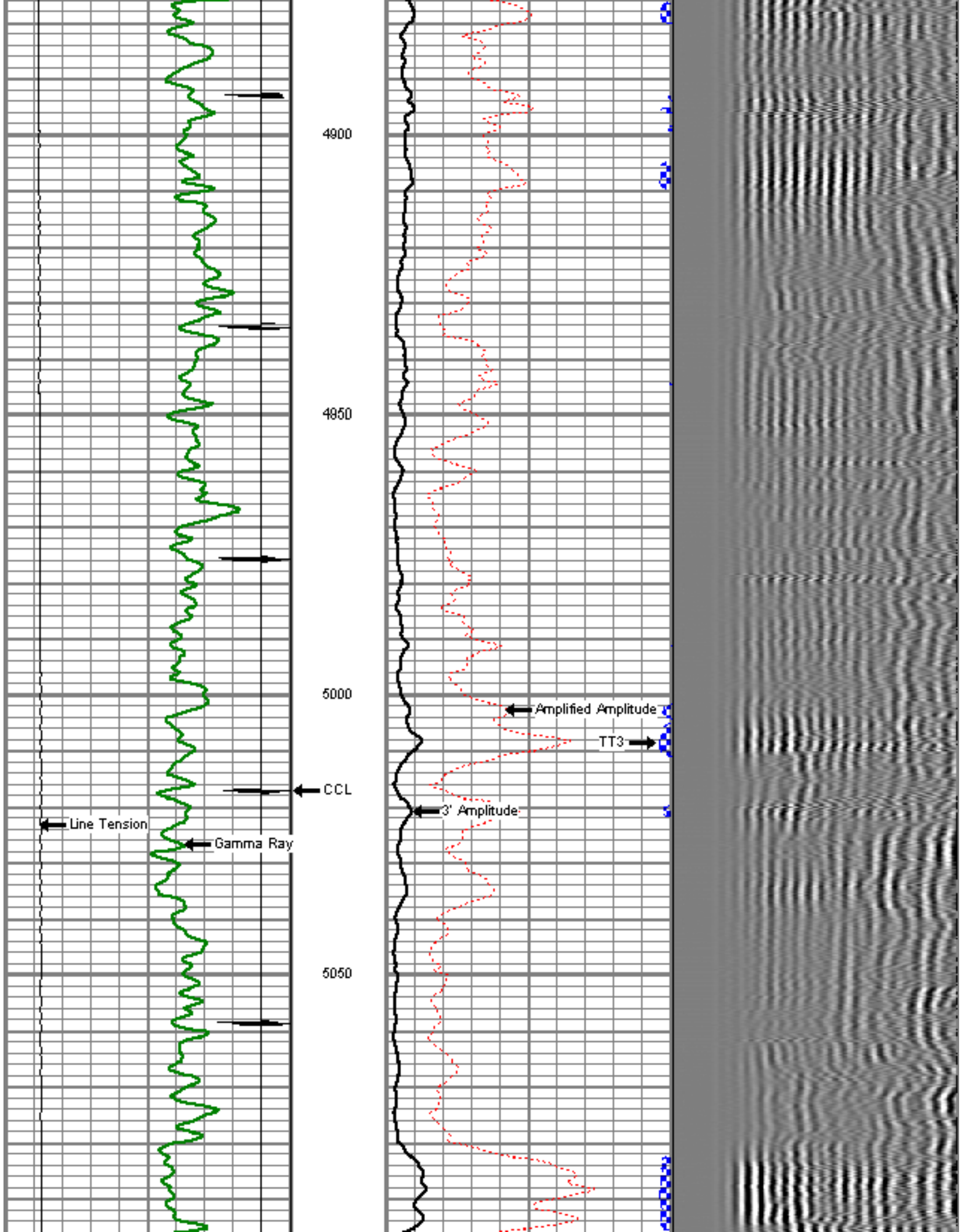
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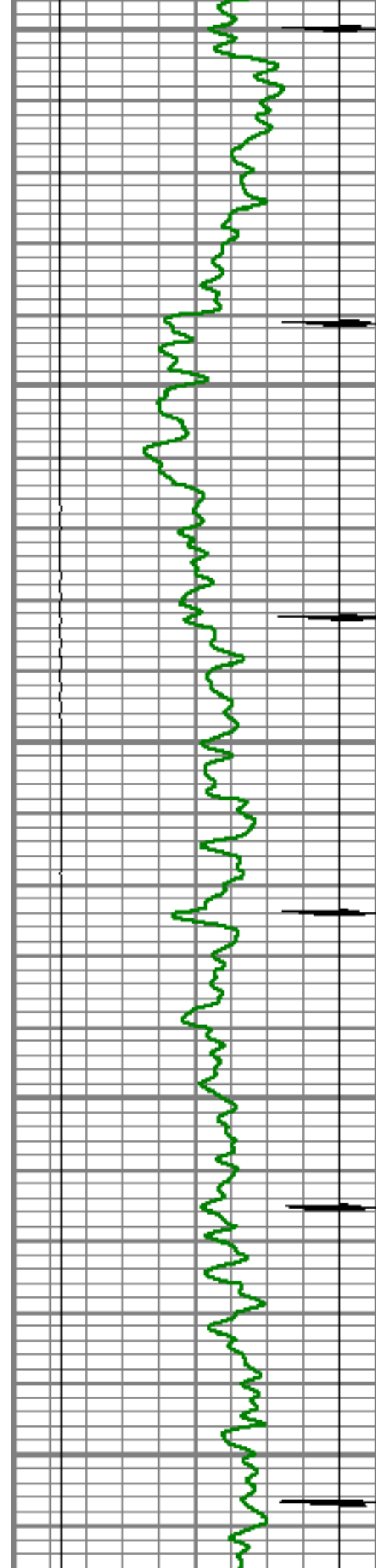
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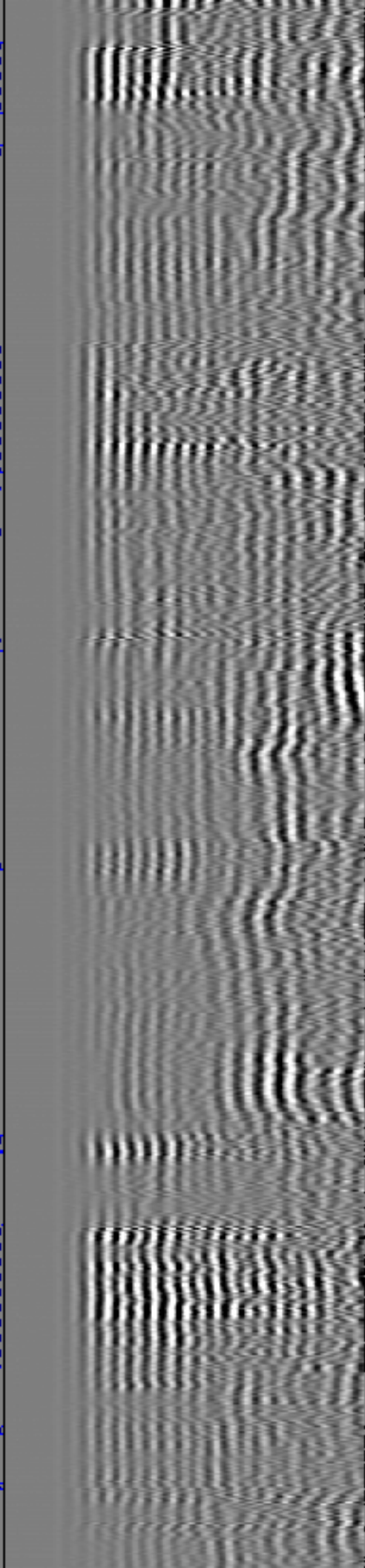
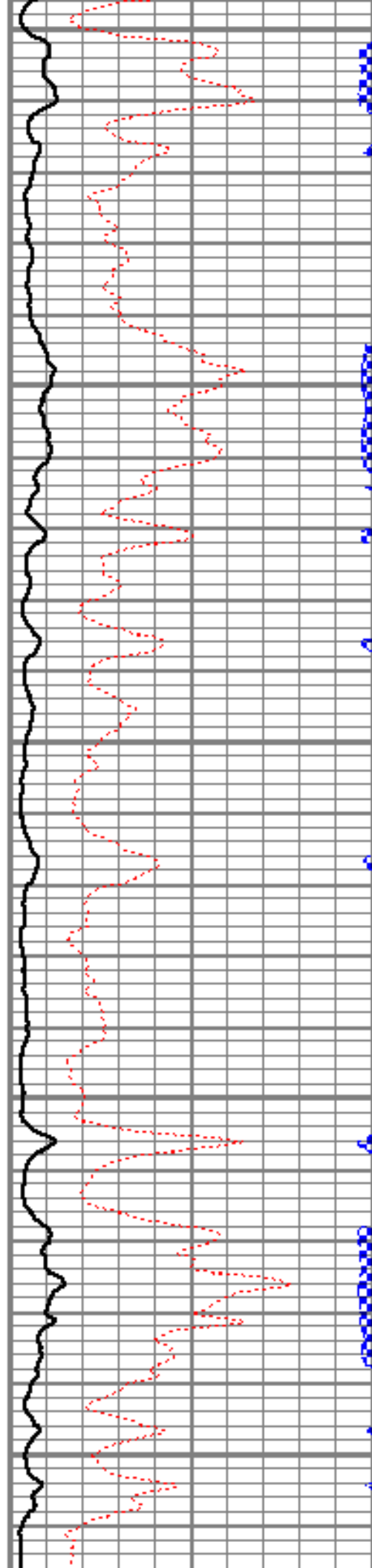
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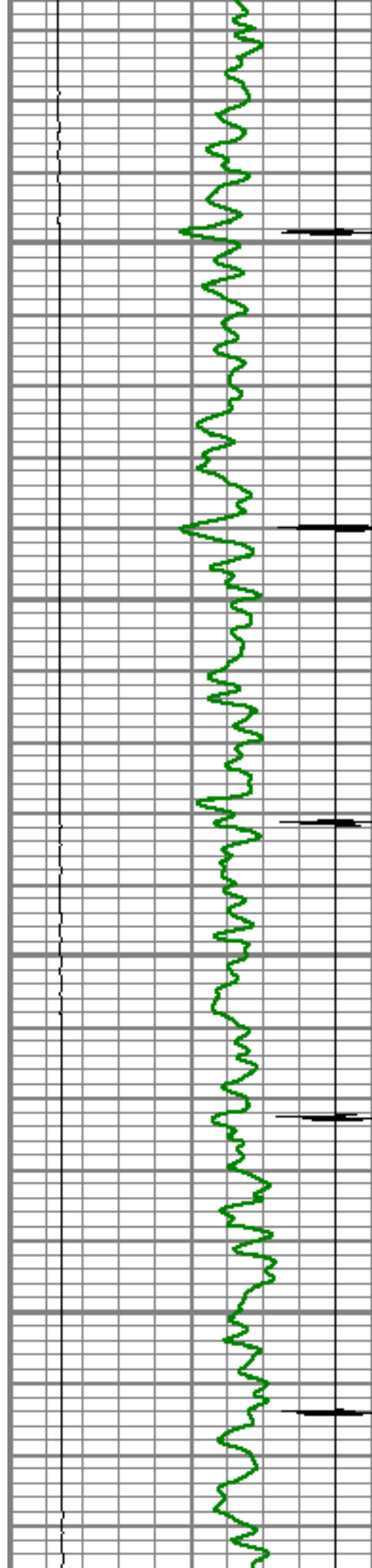
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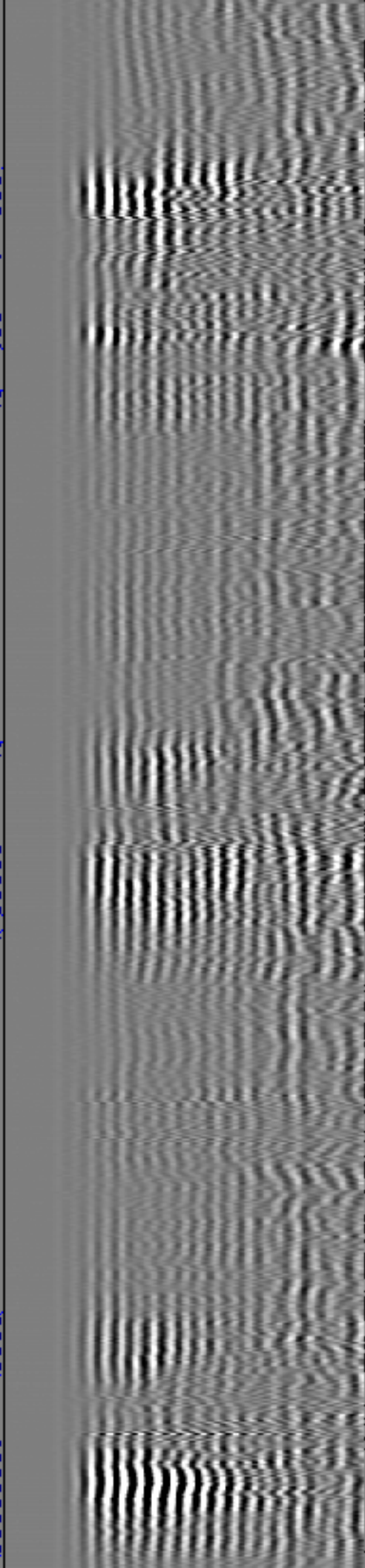
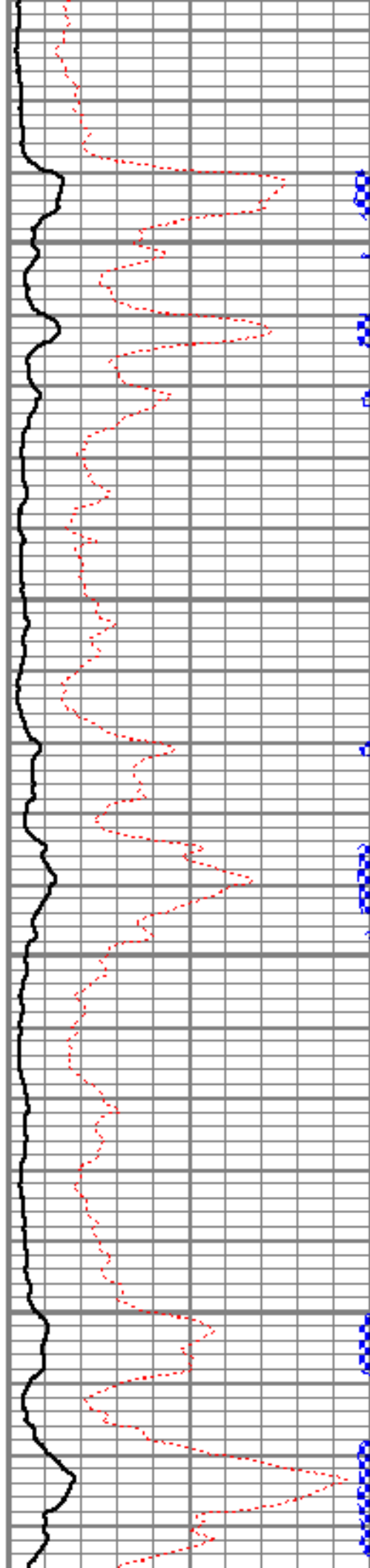


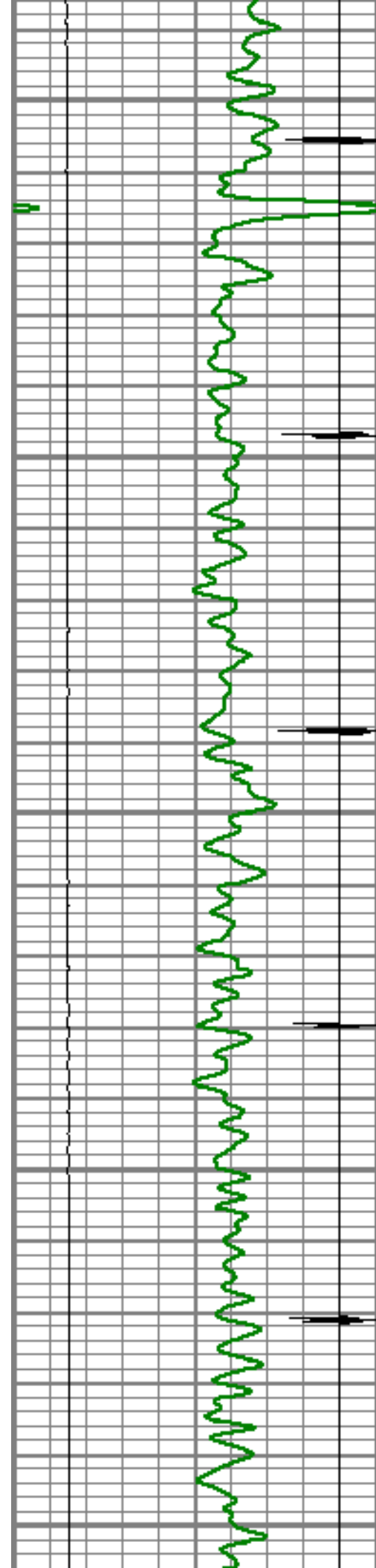
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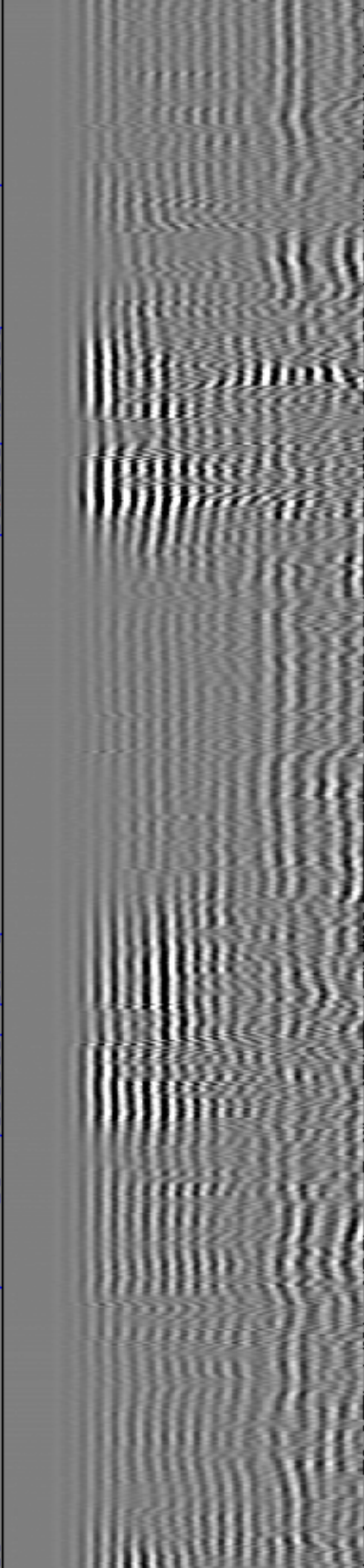
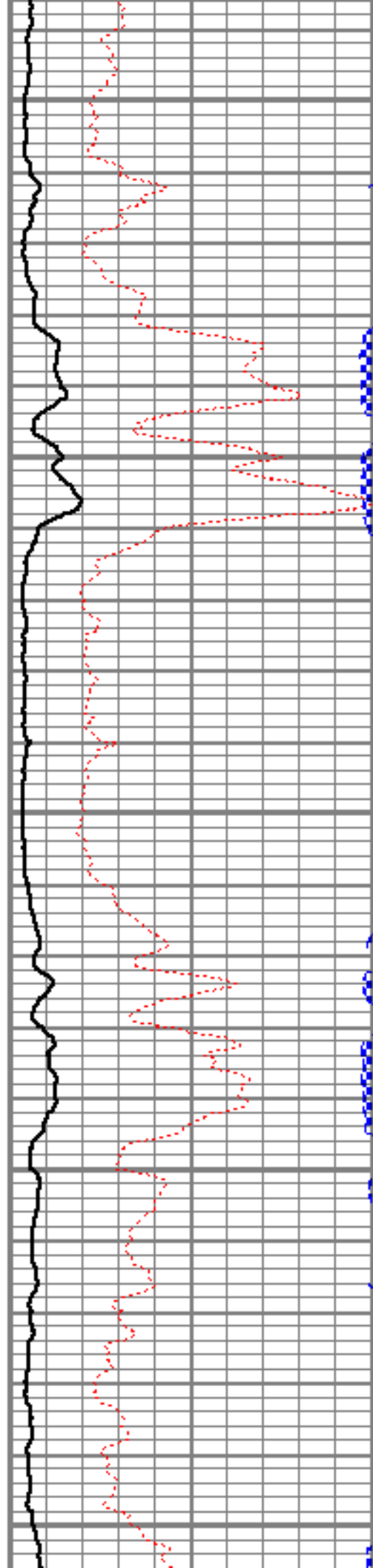
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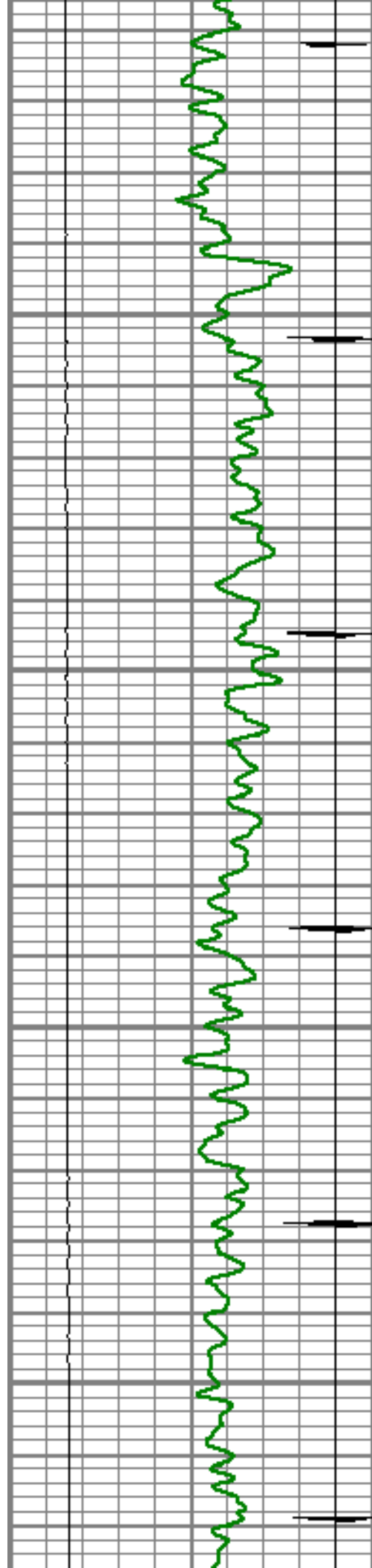
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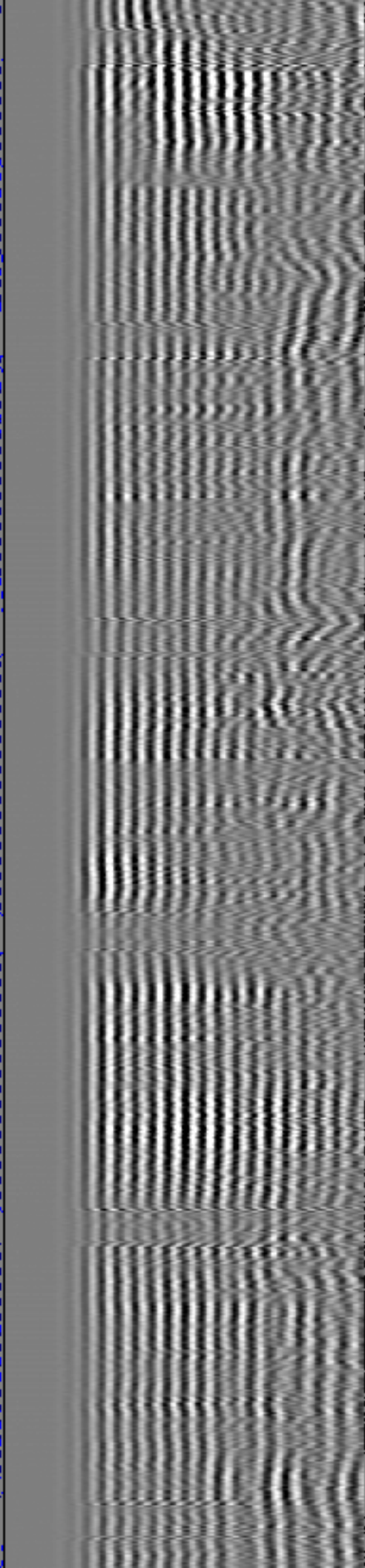
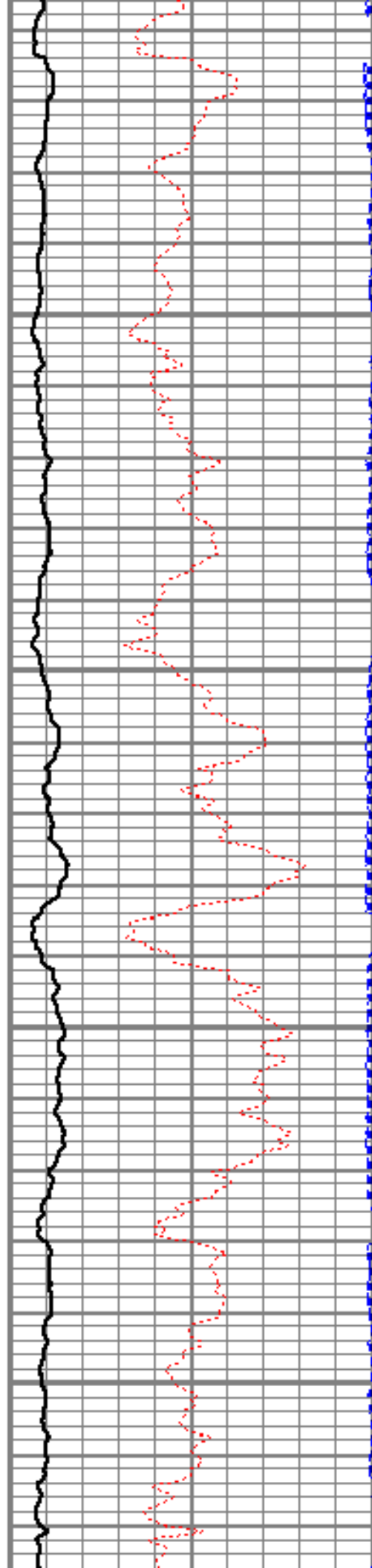


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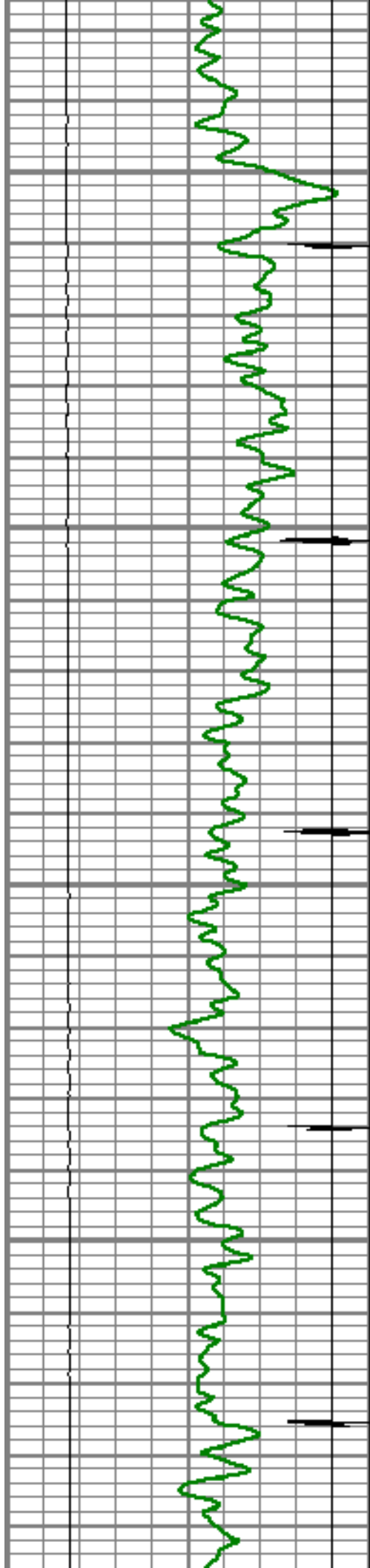
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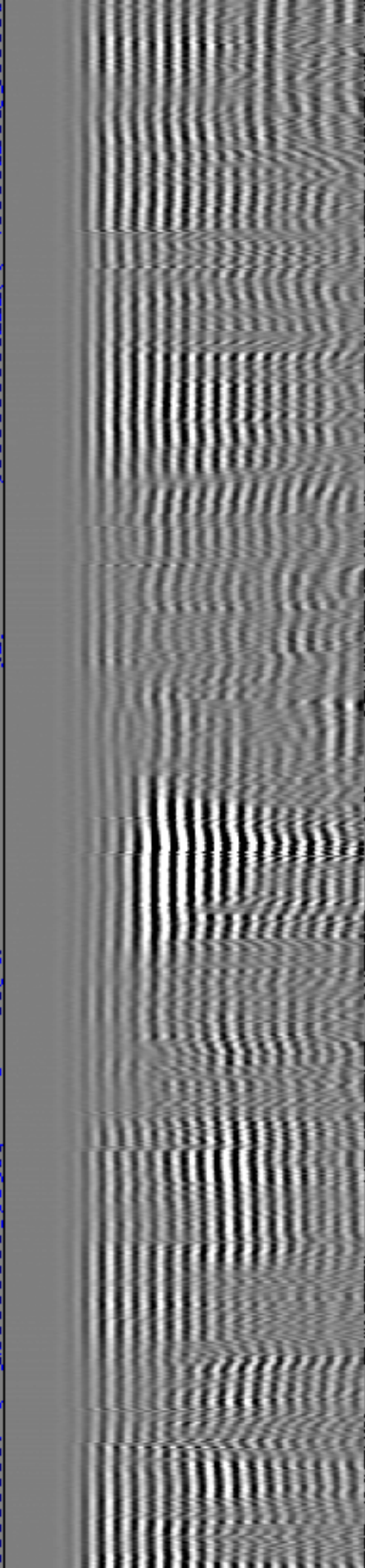
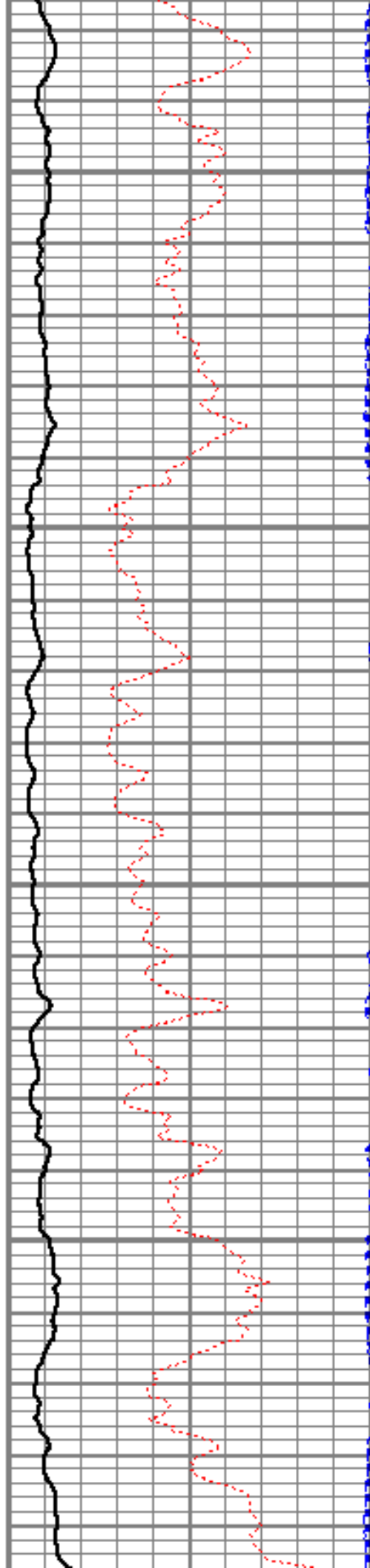


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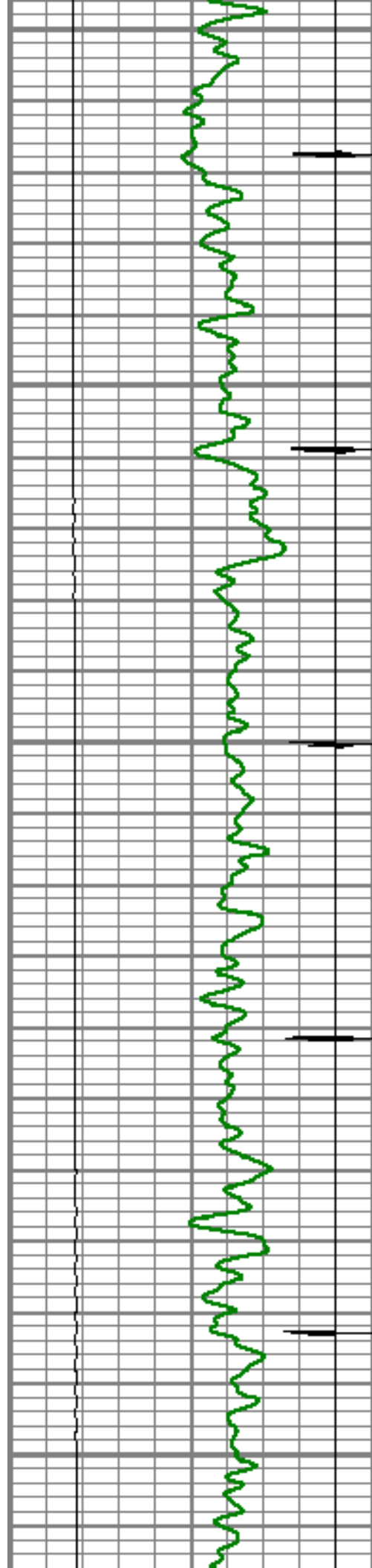
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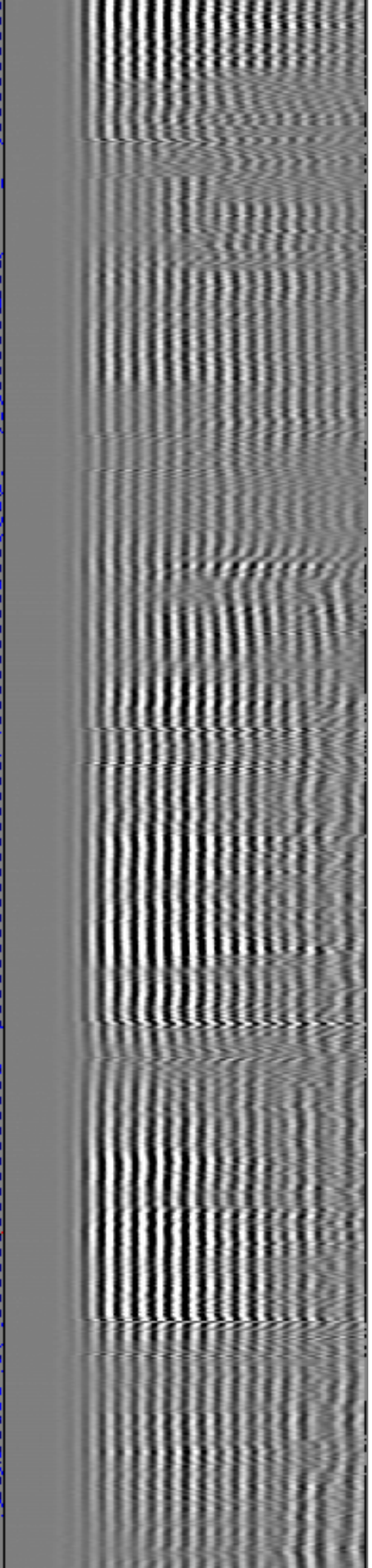
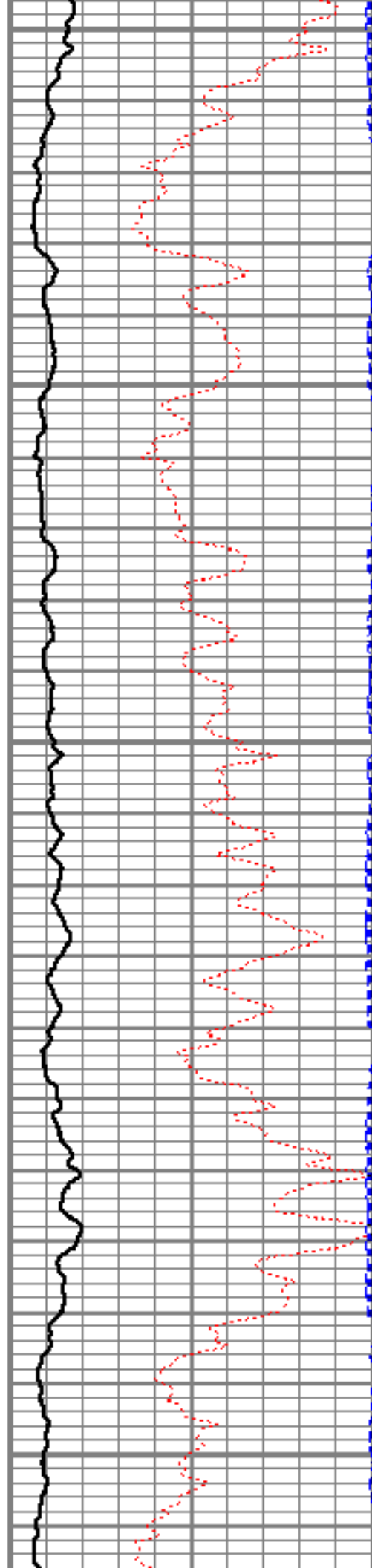
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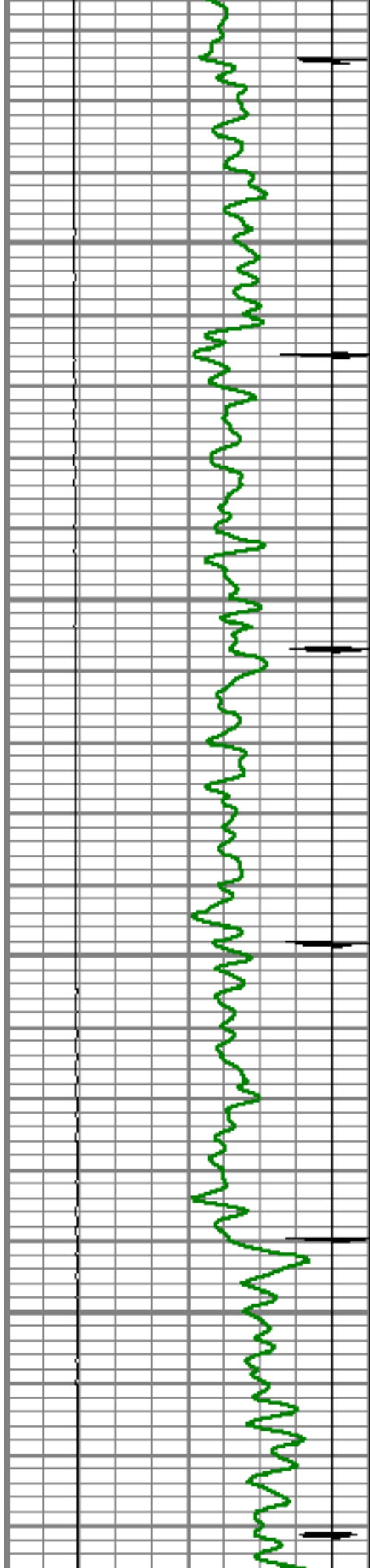
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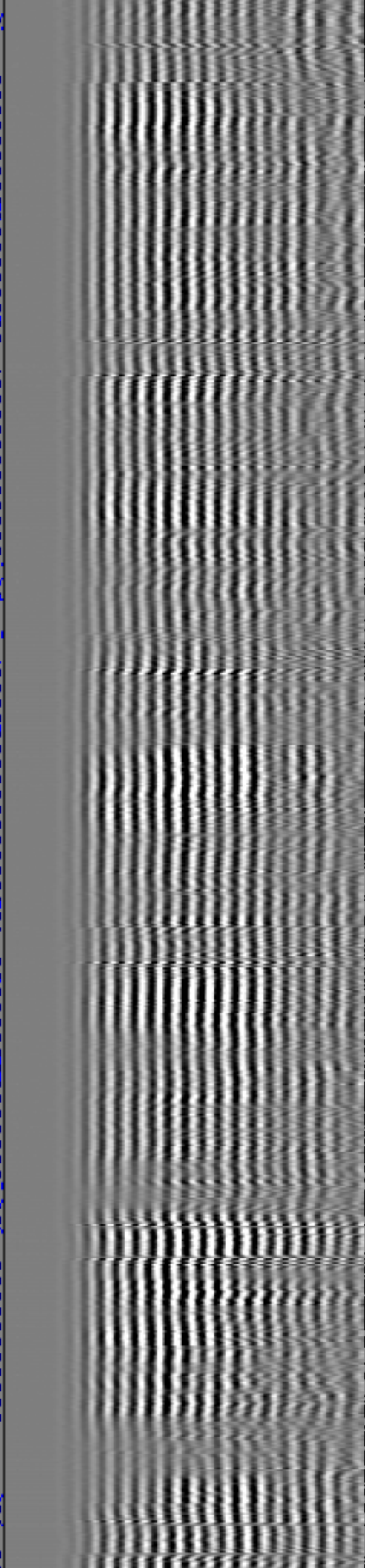
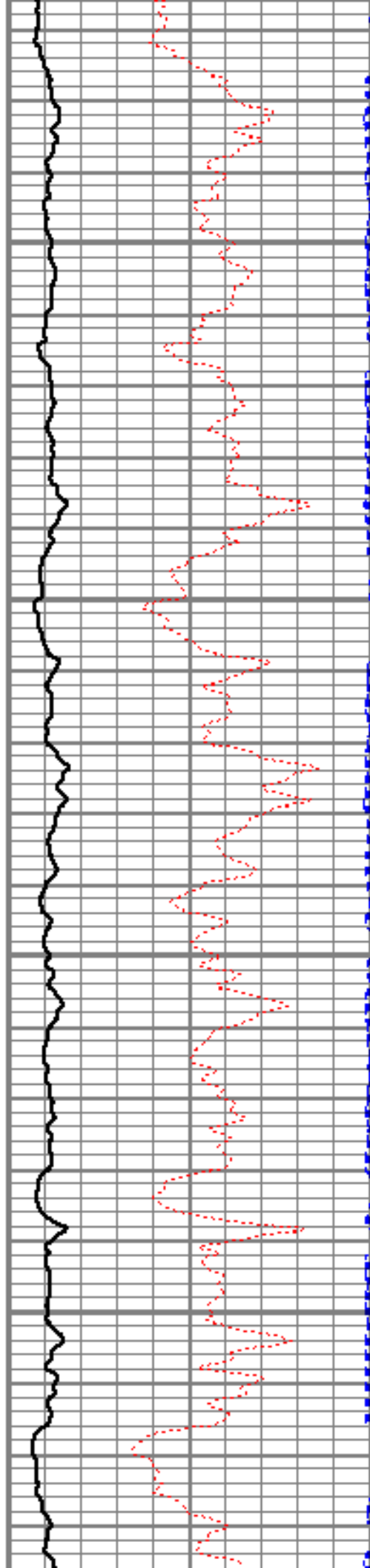


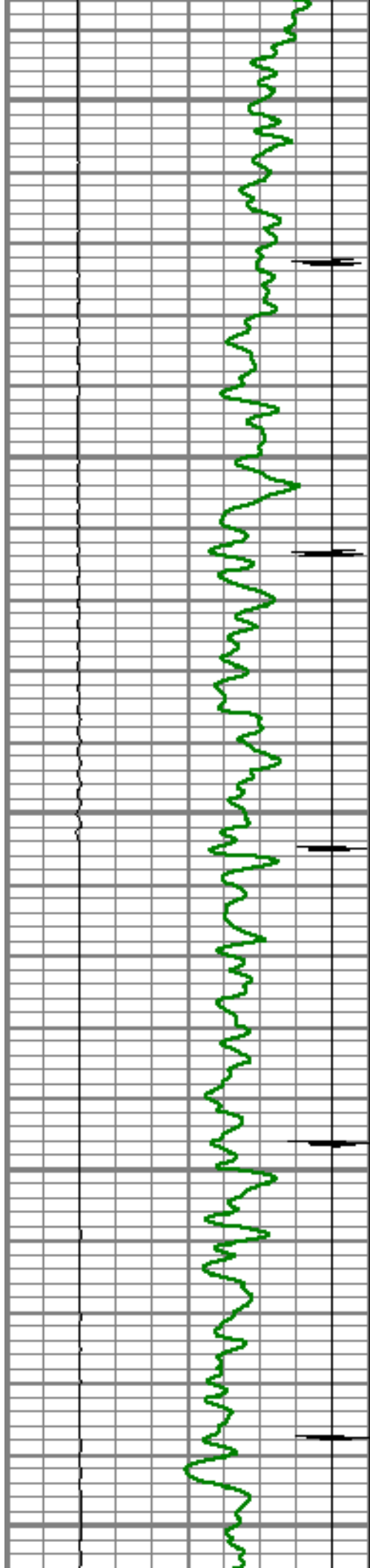
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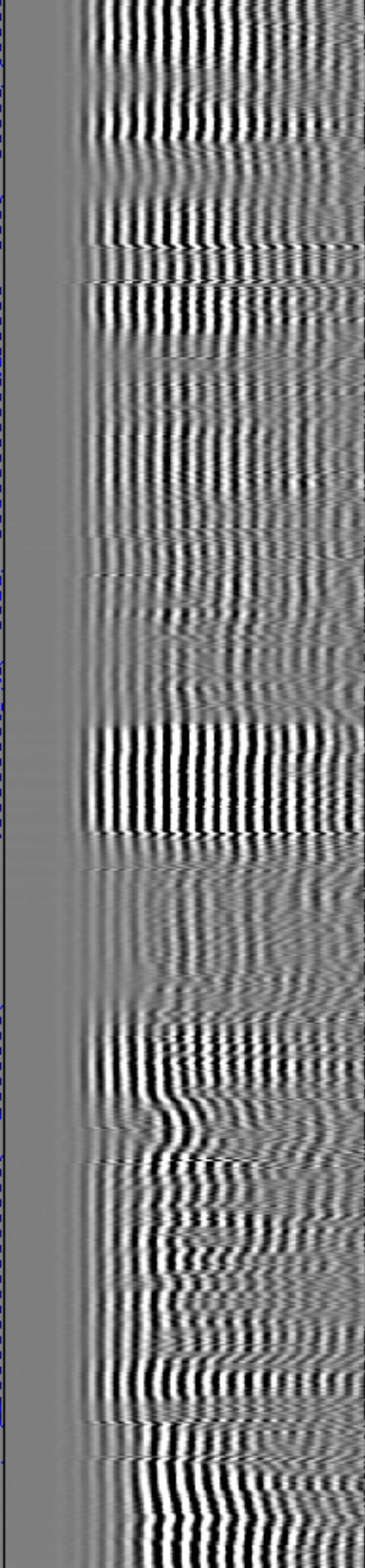
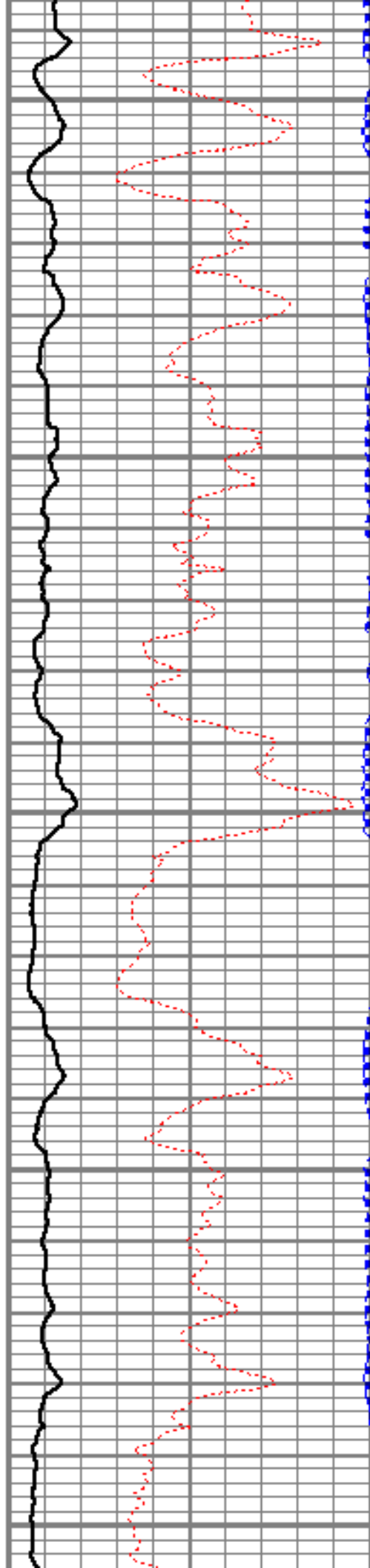
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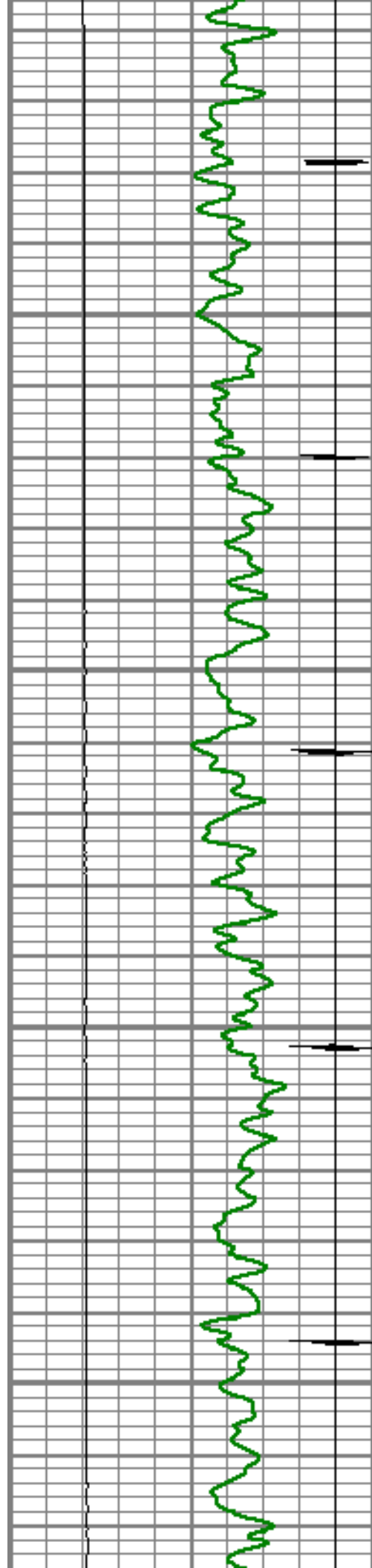
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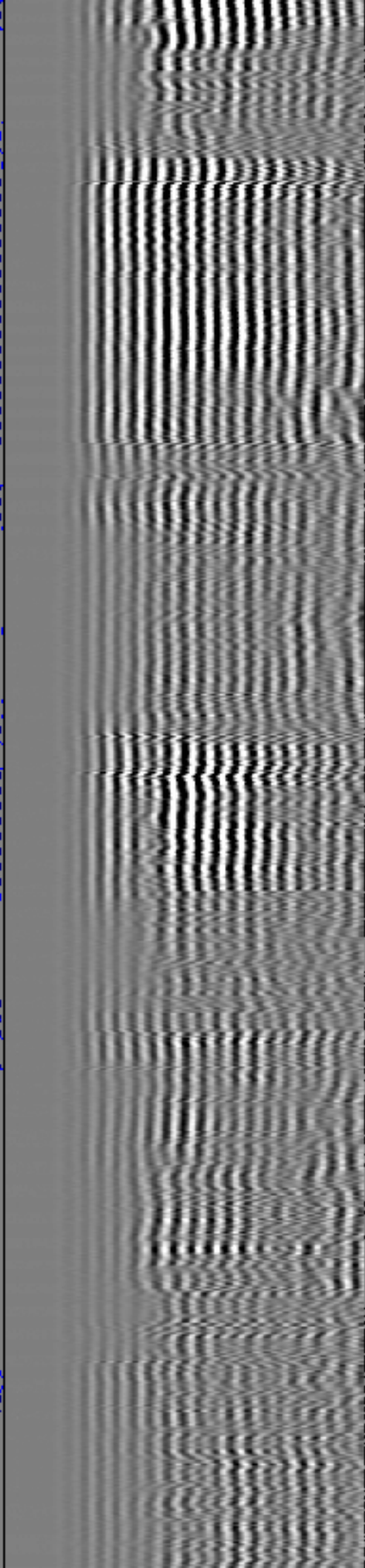
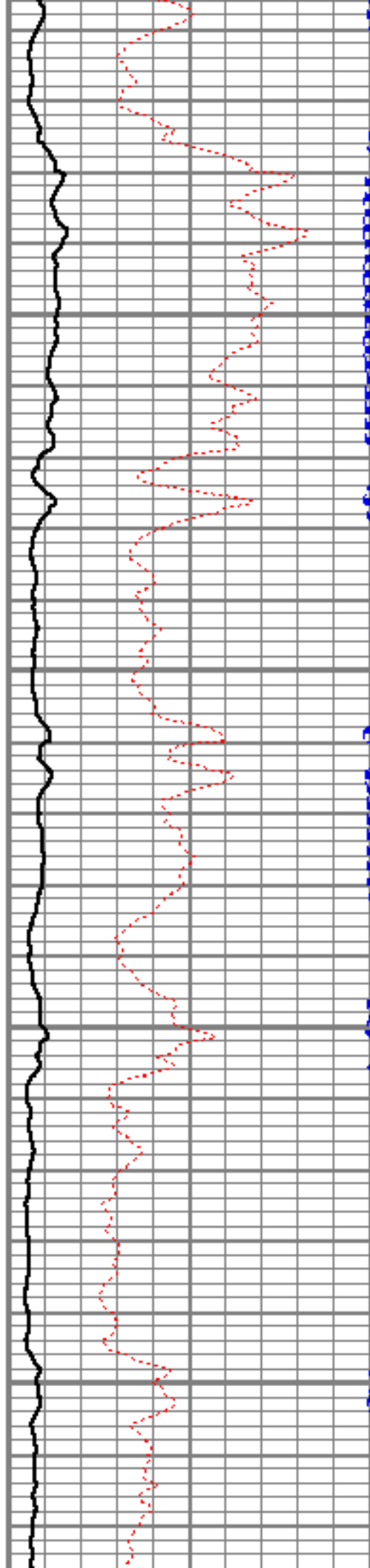


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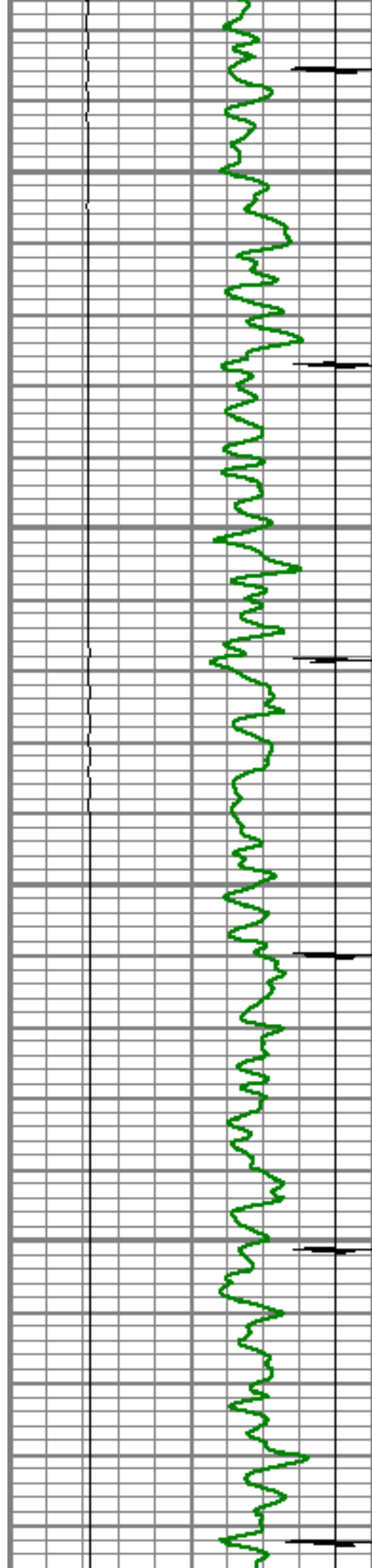
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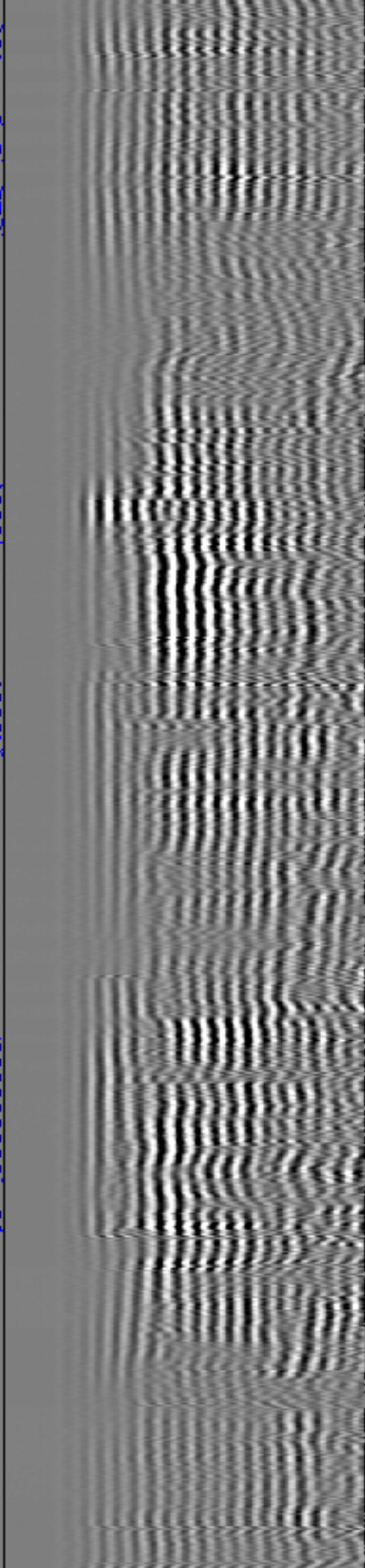
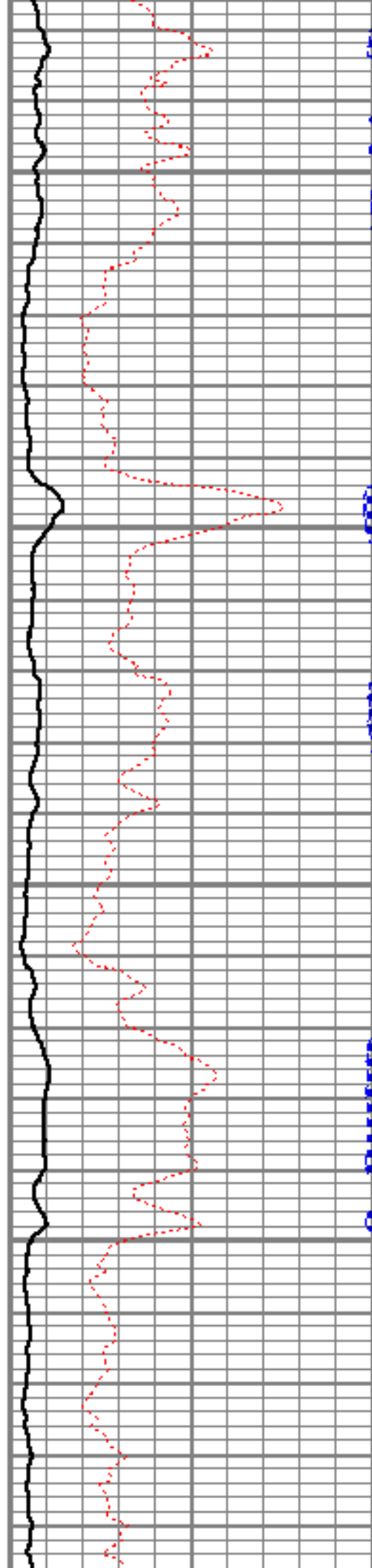


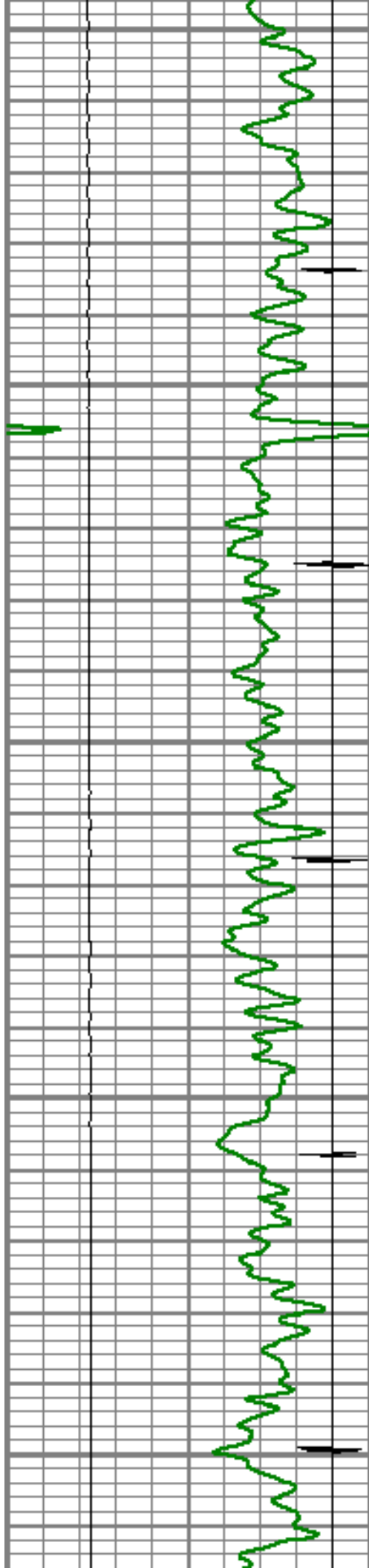
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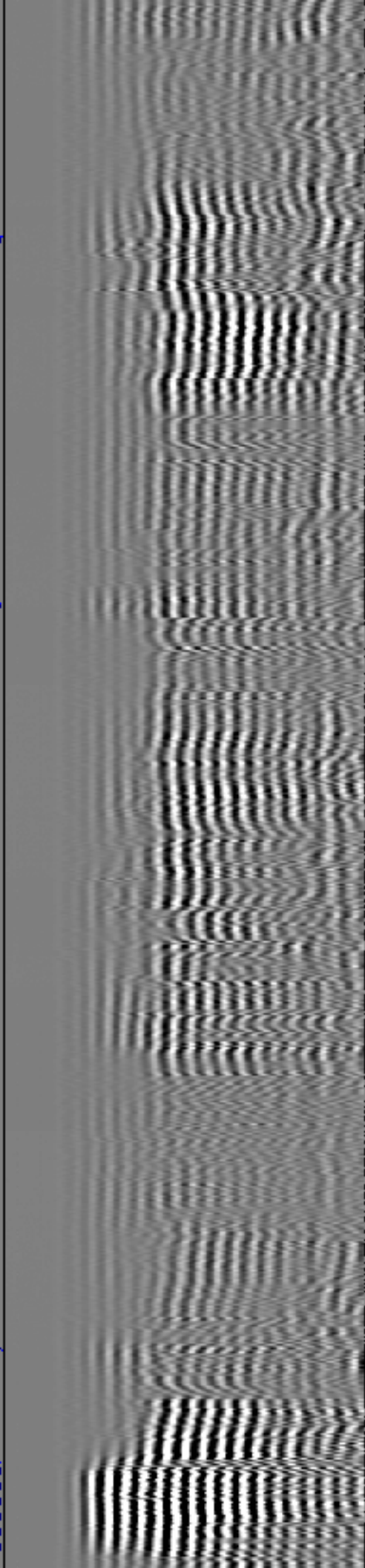
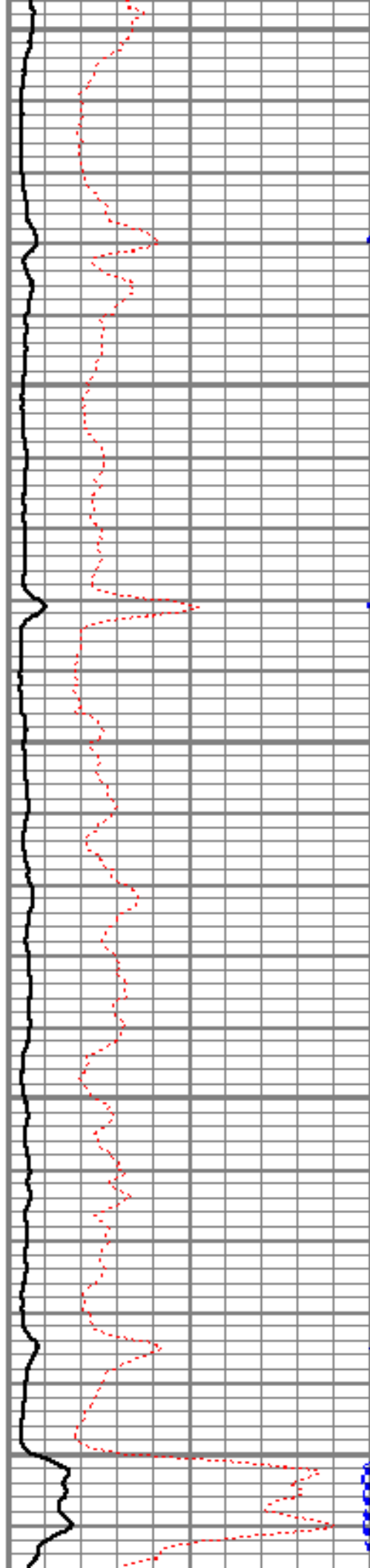
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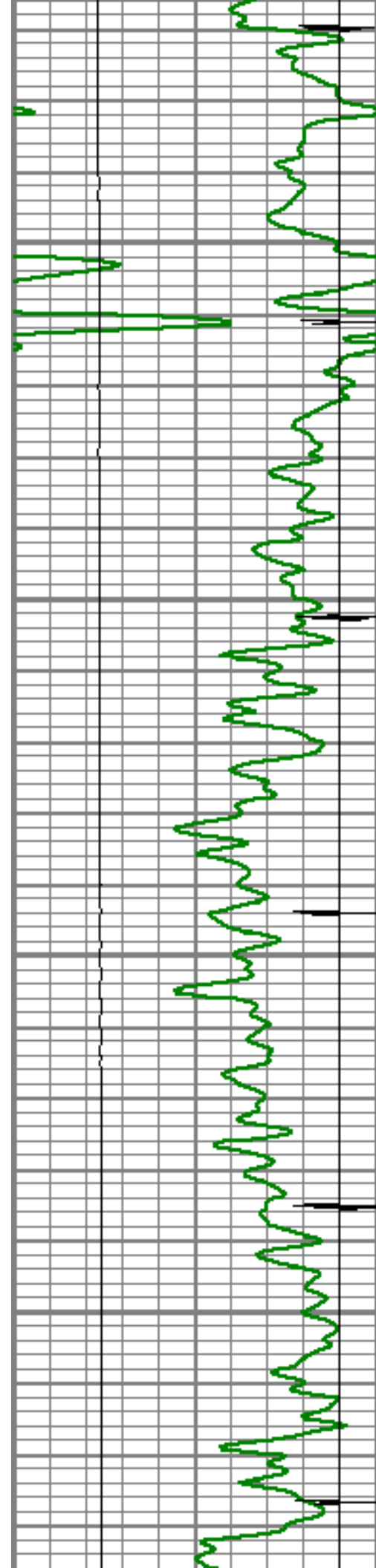
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7500

Short Joint



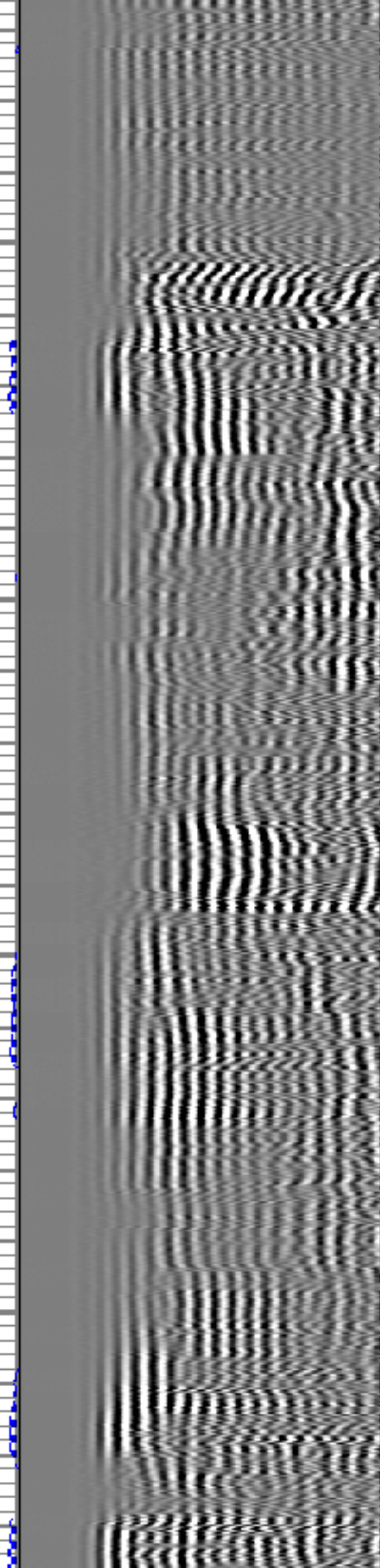
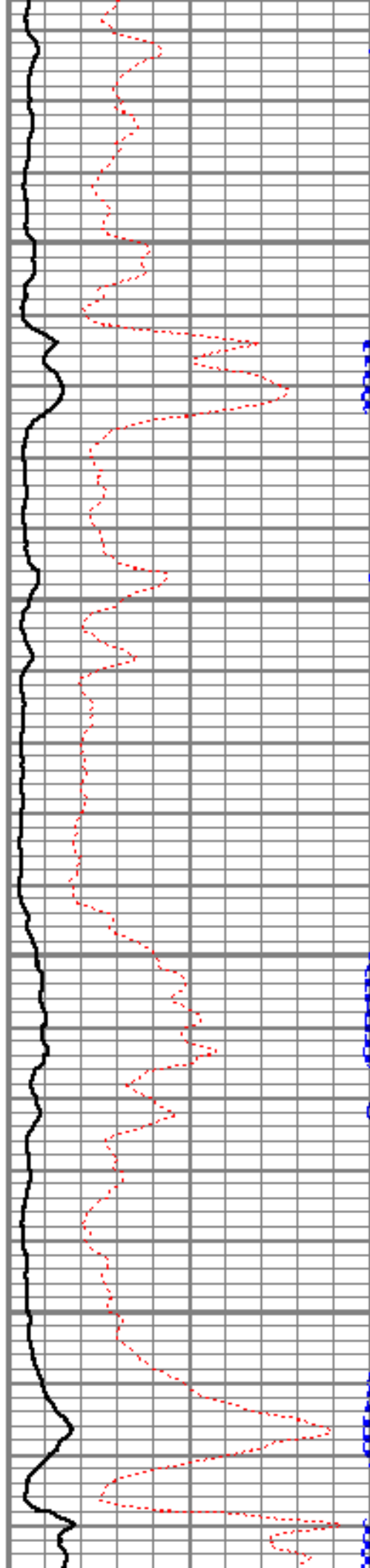


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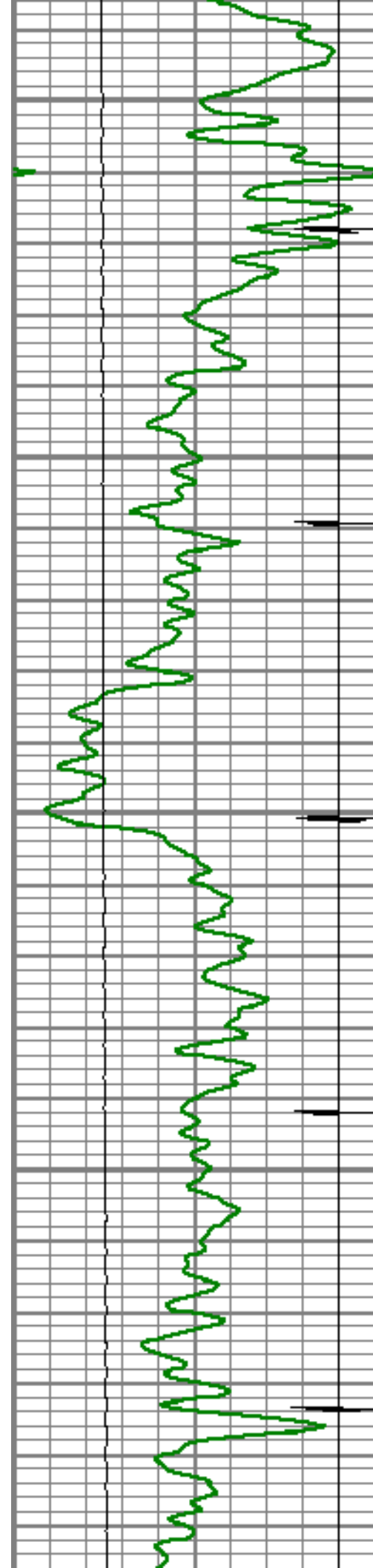
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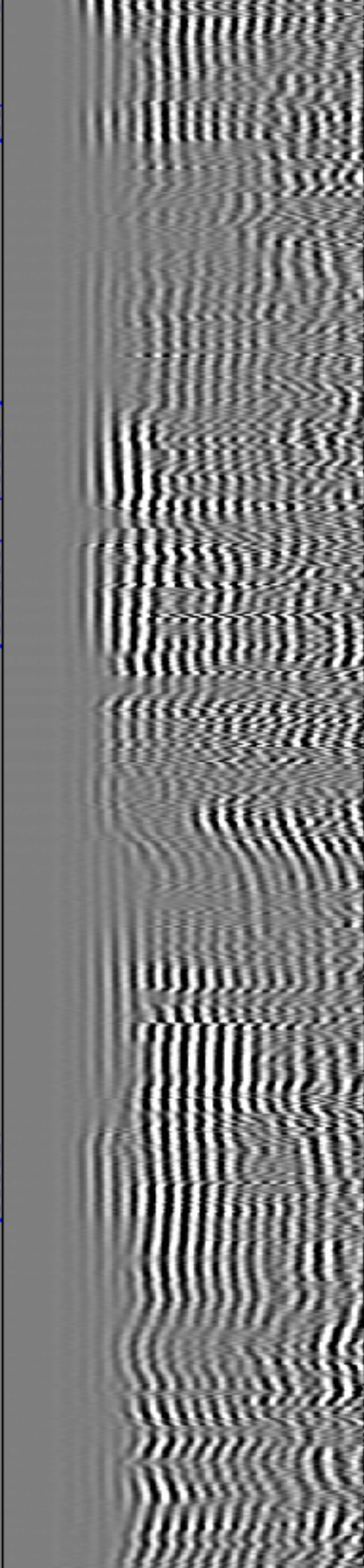
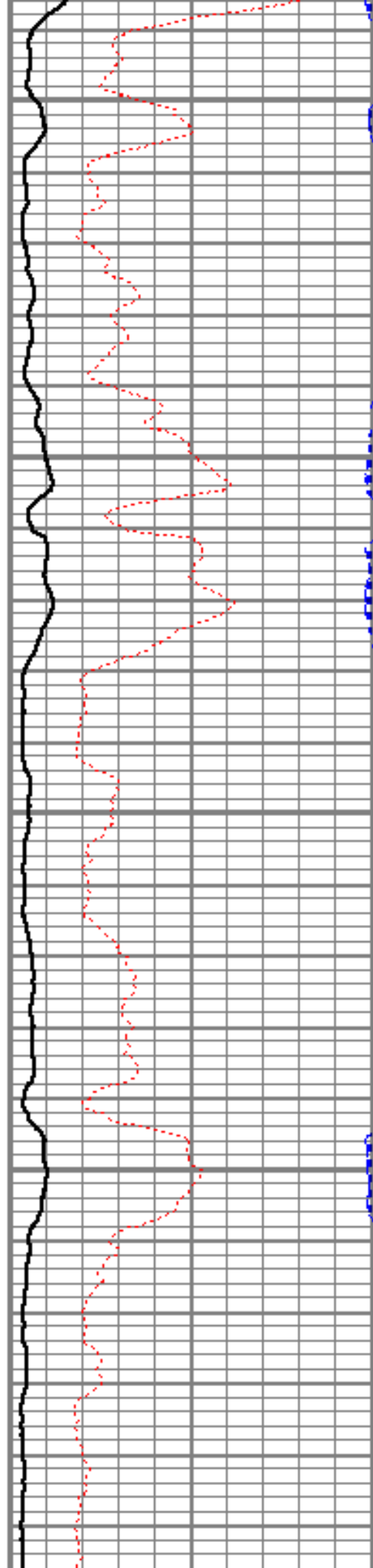
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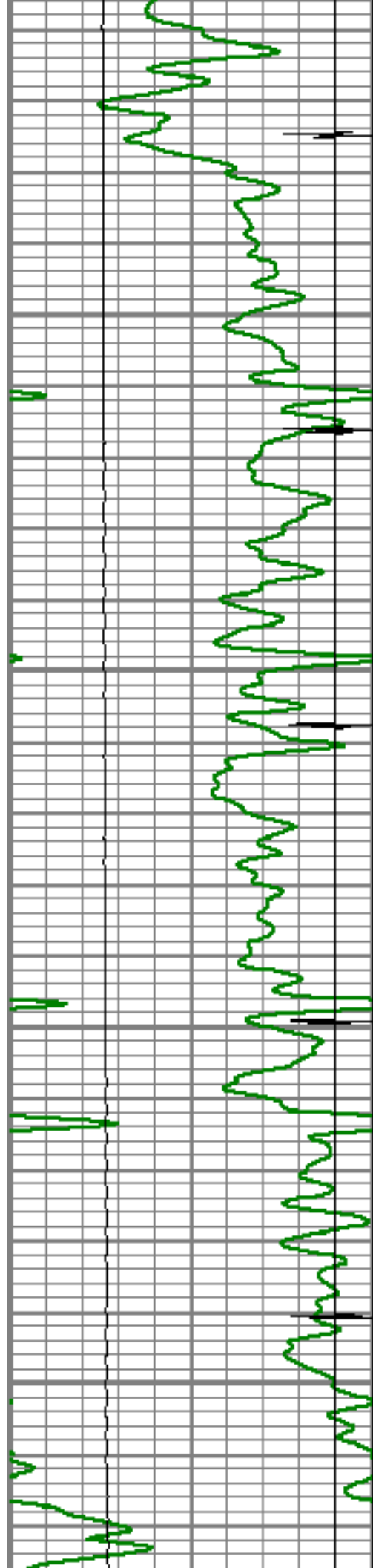
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7900

7950



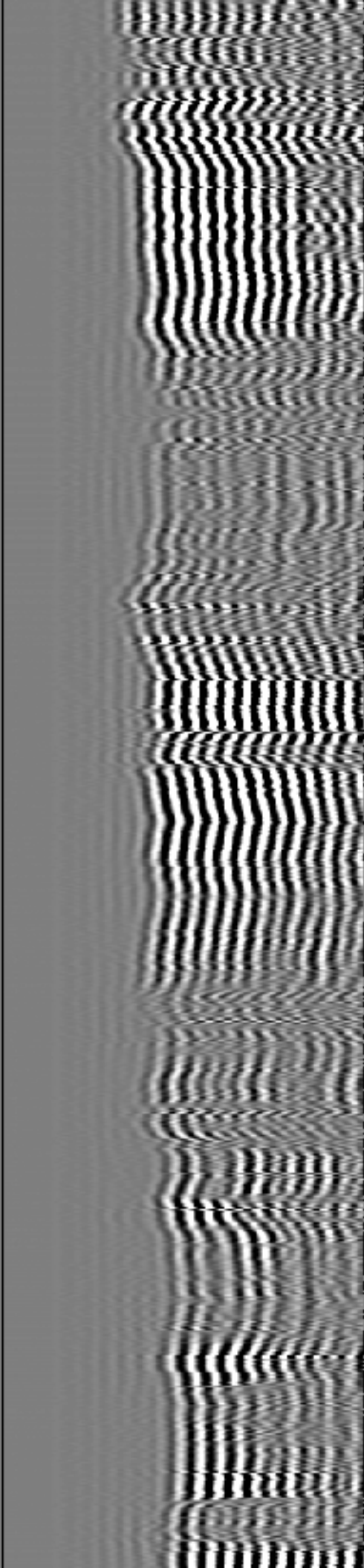
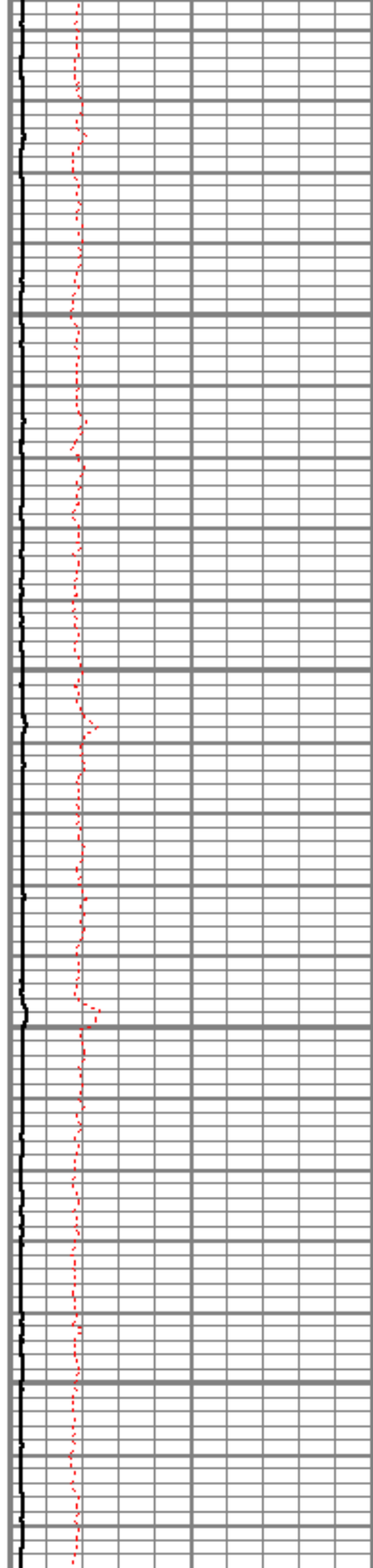


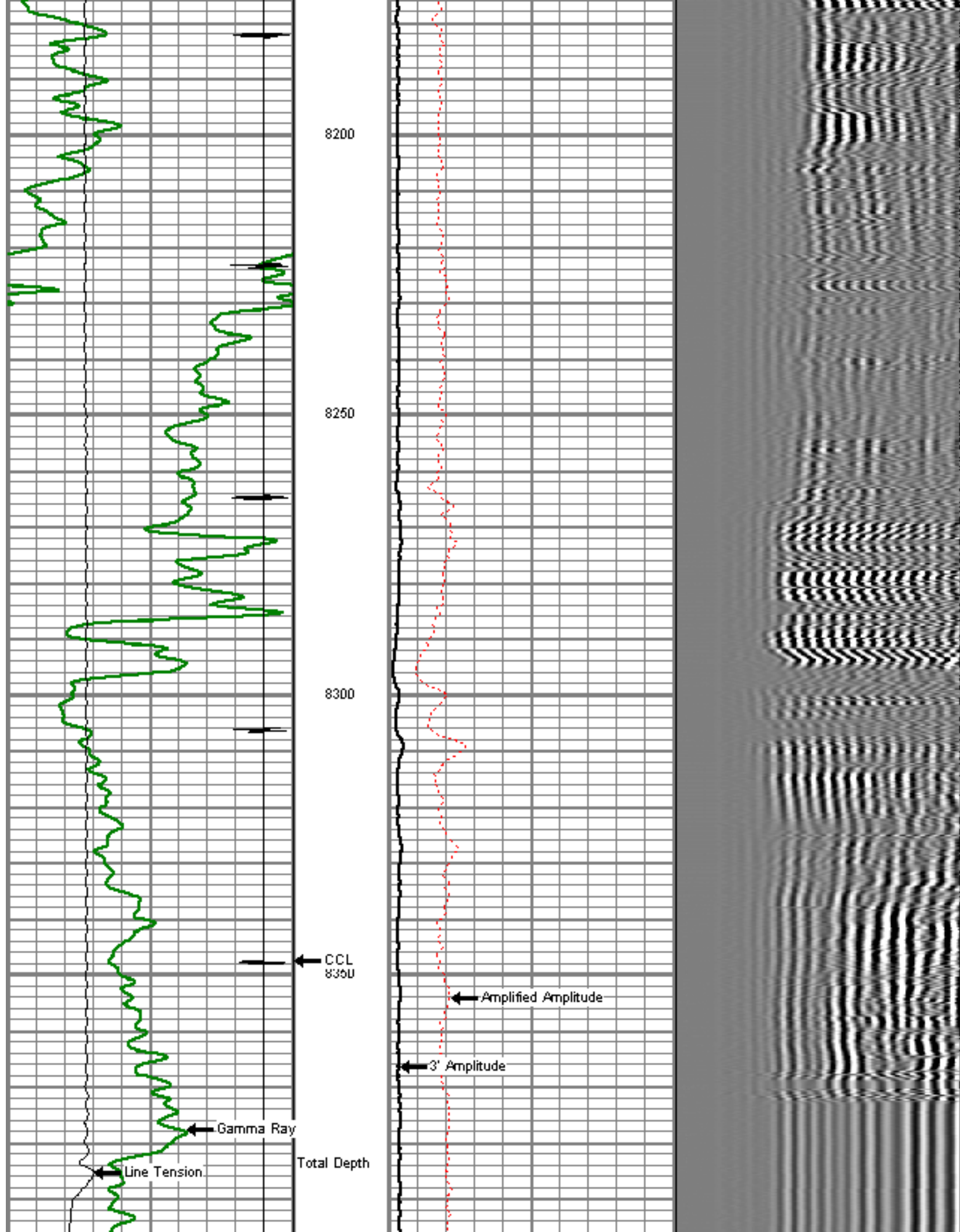
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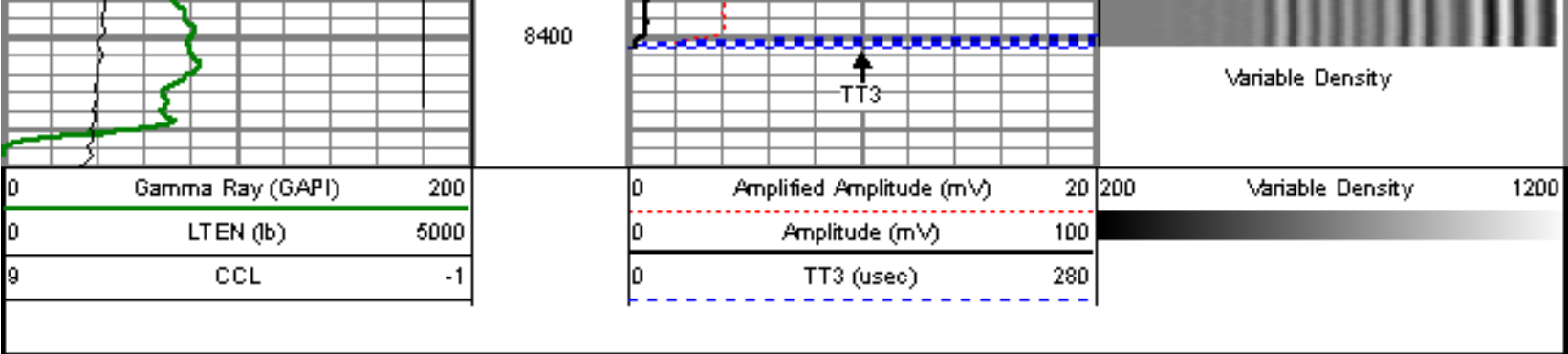
8100


8150











Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
WVF3	14.54		titan Titan Cable Head Go Pk.	1.02	1.44	1.50
			Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer	2.88	2.75	10.00
			CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.7711) Probe 2.75" Dial Receiver Bond	28.77	2.75	60.00
			Centralizer-Probe (CENT-PROBE-1) Probe Bowspring Centralizer	2.88	2.75	10.00
			GR-PROBE_GRCCCL (PRB_GRCCCL_275_01) Probe 2.75" 4 Channel Probe	4.54	2.75	30.00
GR	3.77					

TEMP	0.17		TEMP-Comprobe (TEMP_CMPRB_1375_012.88) Pos 1126 pike Temp tool	12.88	1.38	15.00
Dataset: rasmussen 11-28.db: field/well/run1/pass10 Total Length: 22.96 ft Total Weight: 126.50 lb O.D.: 2.75 in						

	Company	ENCANA OIL & GAS ( USA)
	Well	RASMUSSEN 11-28
	Field	WATTENBERG
	County	WELD
	State	COLORADO