



CEMENT BOND LOG

Mesa Wireline

Company ENCANA OIL & GAS (USA) INC
Well RASMUSSEN 4-4-28
Field WATTENBERG
County WELD
State COLORADO

Company ENCANA OIL & GAS (USA) INC
Well RASMUSSEN 4-4-28
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-32897-0000
SHL: 1962' FNL & 1790' FWL
BHL: 2604' FNL & 2596' FWL
SEC: 28 TWP: 2N RGE: 68W
Permanent Datum GROUND LEVEL Elevation 4935'
Log Measured From KELLY BUSHING = 13'
Drilling Measured From KELLY BUSHING
Other Services
NONE
Elevation
K.B. 4948'
D.F. 4947'
G.L. 4935'

Date	6 APRIL 2013	12 APRIL 2013	
Run Number	ONE	TWO	
Depth Driller	8241'	8241'	
Depth Logger	8047'	8460'	
Bottom Logged Interval	8047'	8460'	
Top Log Interval	6200'	3500'	
Open Hole Size	7.875"	7.875"	
Type Fluid	WATER	WATER	
Density / Viscosity	~8.3#	~8.34 LBS/GAL	
Max. Recorded Temp.	249 DEG F	N/A	
Estimated Cement Top	6440'	3870'	
Time Well Ready	N/A	N/A	
Time Logger on Bottom	N/A	N/A	
Equipment Number	10901 PRD 01	10801 / PRD 01	
Location	AULT, CO	AULT, CO	
Recorded By	Z. EMICK	B. MAYNARICH	
Witnessed By	T. MAJORS	S. MITCHELL	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	0'	844'				
TWO	7.875"	844'	8251'				
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	8.625"	24#	0'	834'			
Prot. String							
Production String	4.5"	11.6#	0'	8241'			
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 LOG. THE SECOND LOG (AFTER ANNULAR FILL) WAS CORRELATED TO THE MESA CBL DATED 6 APRIL 2013.

SHORT JOINT: 7333' - 7353'

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



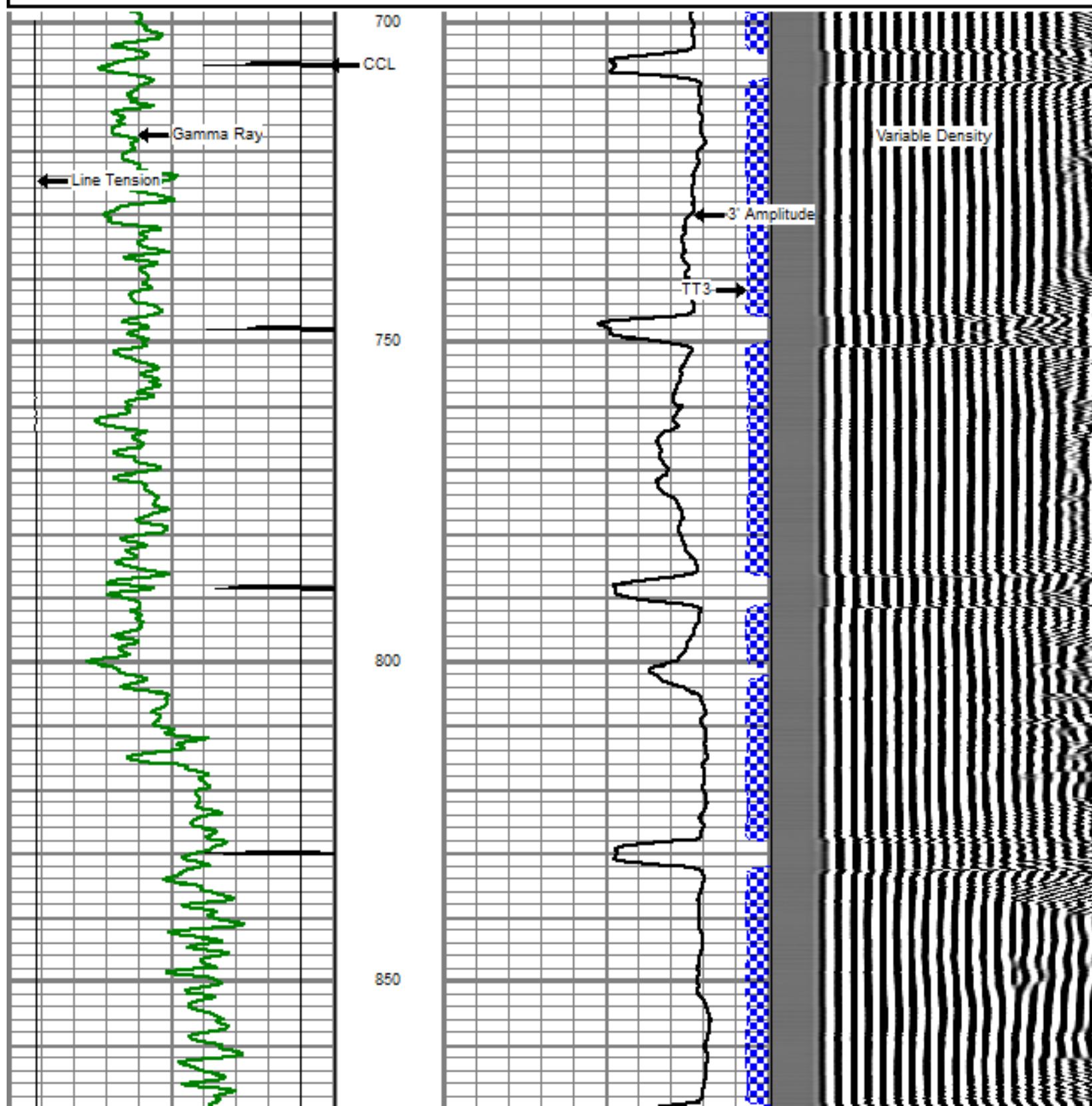
TOP PASS

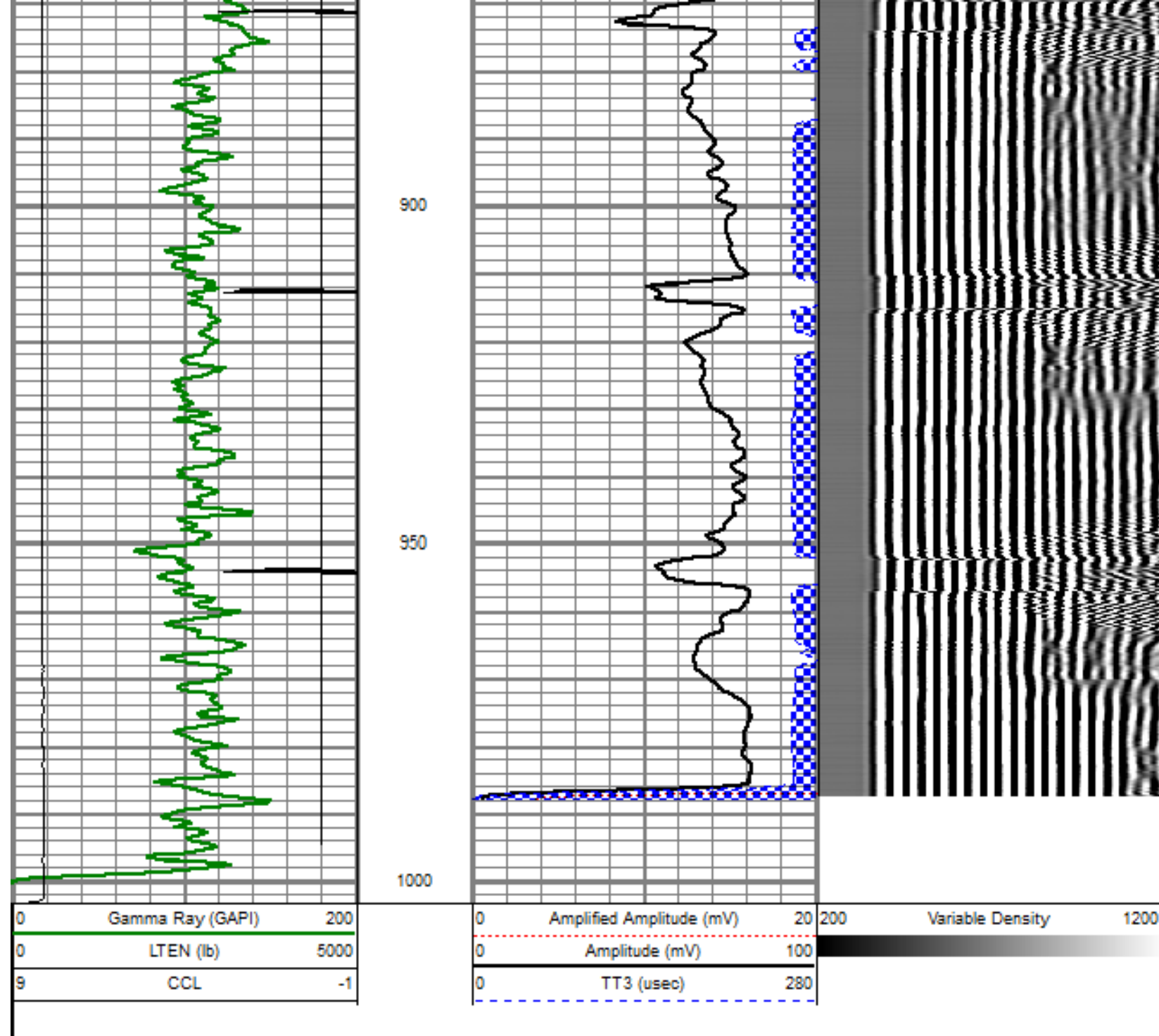
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Dataset Pathname: pass10.2
Presentation Format: dobl_prb
Dataset Creation: Sat Apr 06 15:16:26 2013 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

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

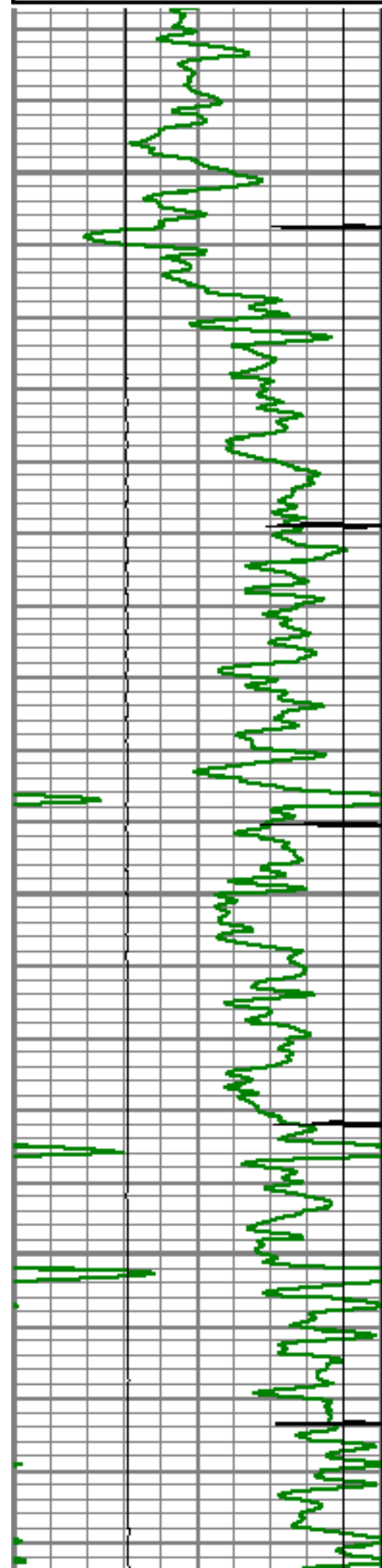
5" = 100'

Database File: rasmussen 4-4-28.db
 Dataset Pathname: pass2
 Presentation Format: dobl_prb
 Dataset Creation: Sat Apr 08 14:15:49 2013 by Log SCH 120430
 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
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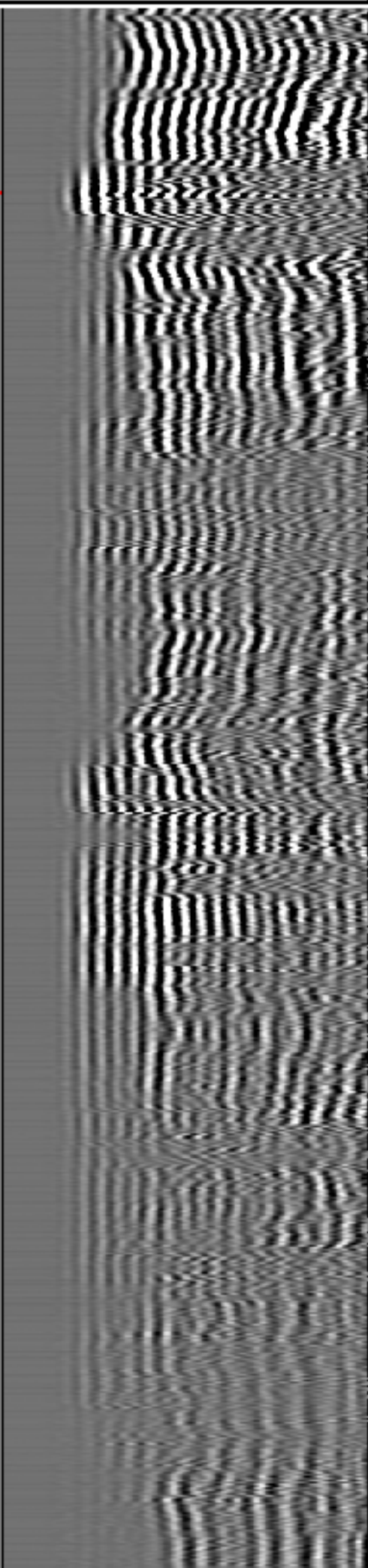
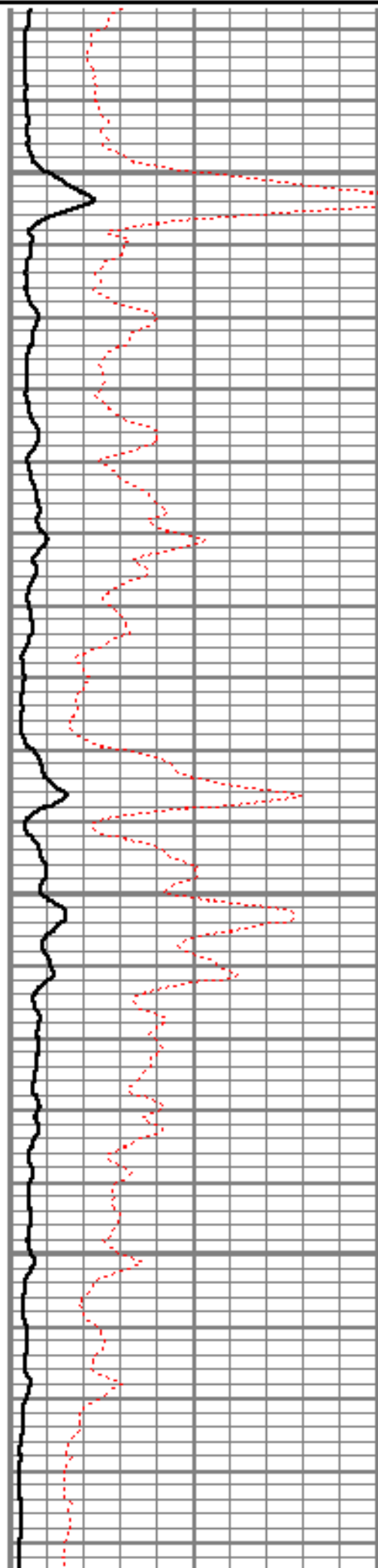


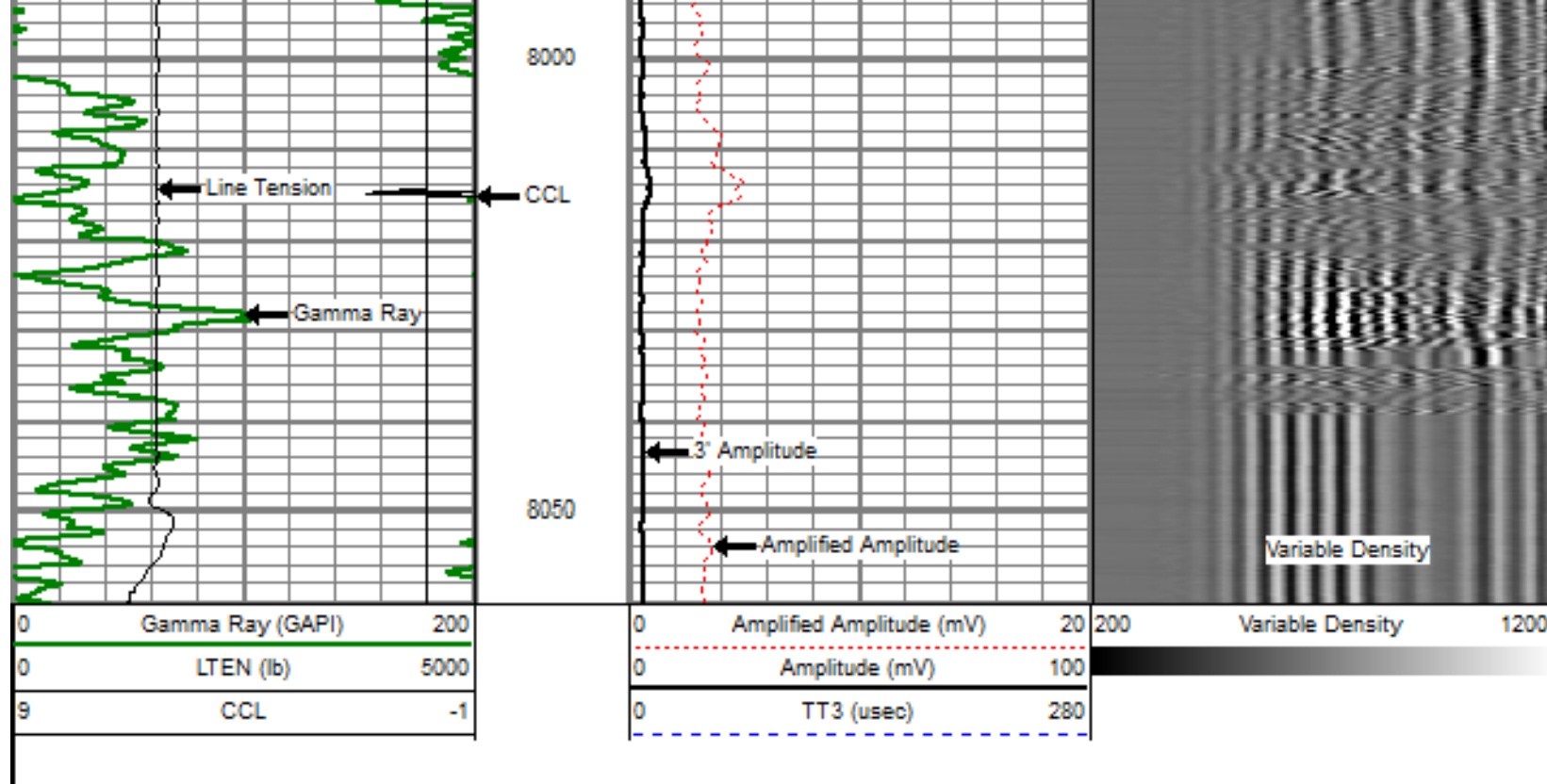
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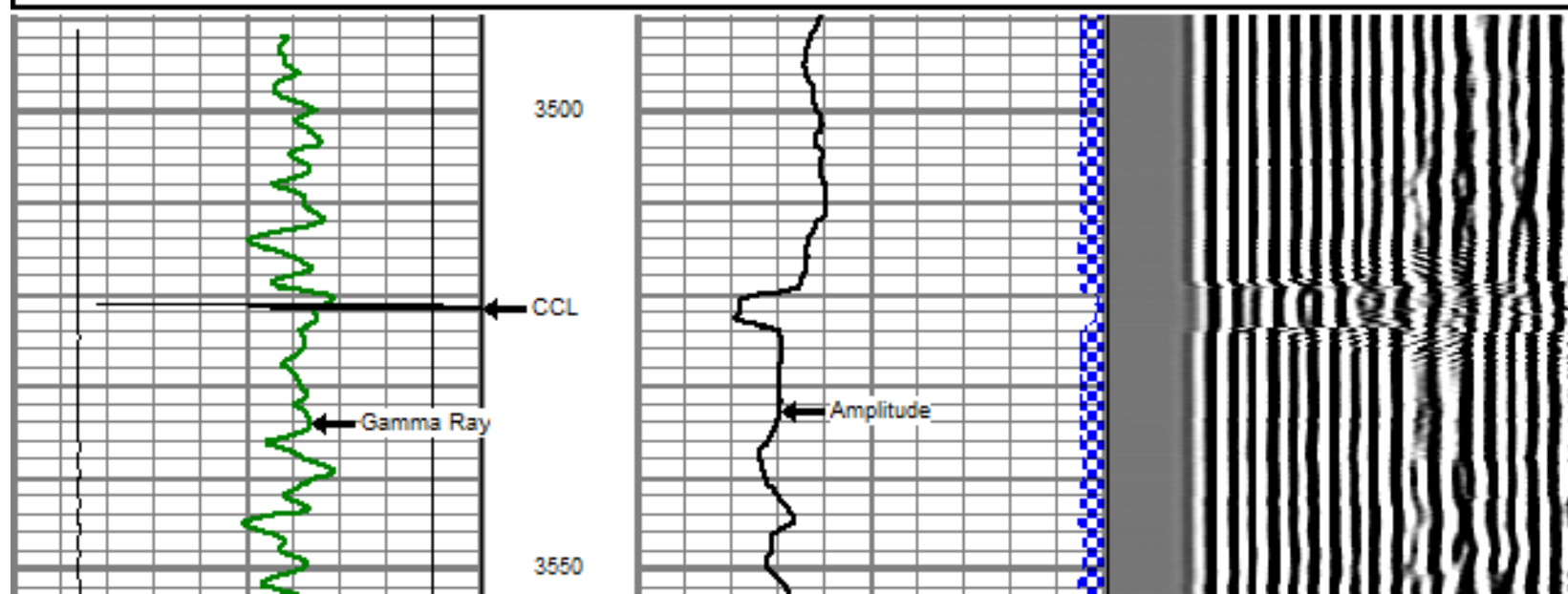
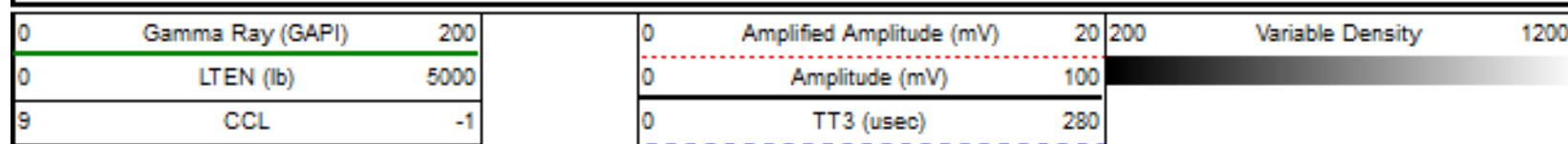


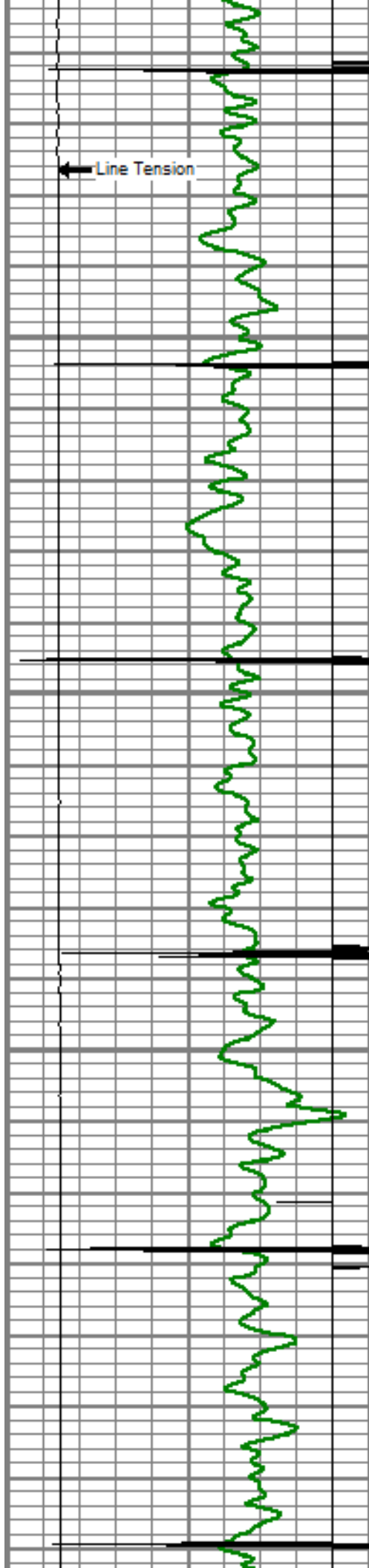


LOG AFTER ANNULAR FILL (LOGGED 4/12/13)

5" = 100'

Database File: rasmu4-4-28.db
 Dataset Pathname: pass2
 Presentation Format: dobl_prb
 Dataset Creation: Fri Apr 12 08:01:32 2013 by Log SCH 120126
 Charted by: Depth in Feet scaled 1:240



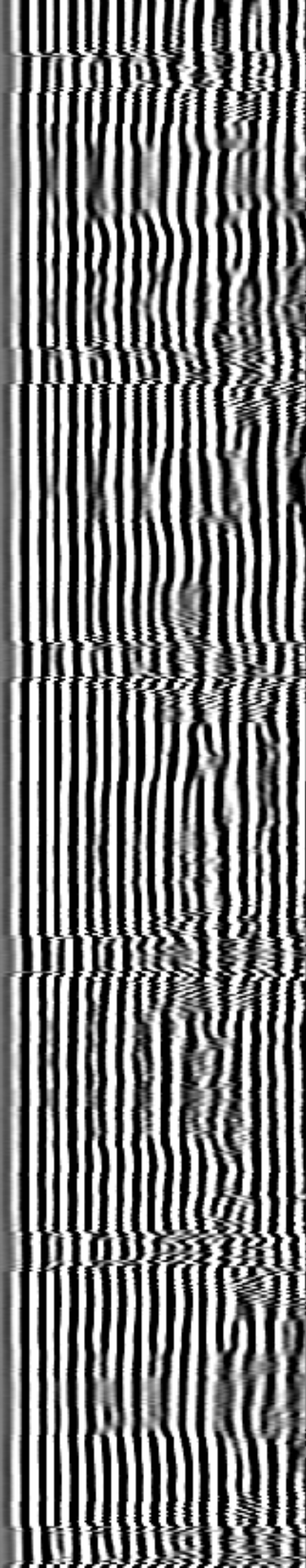
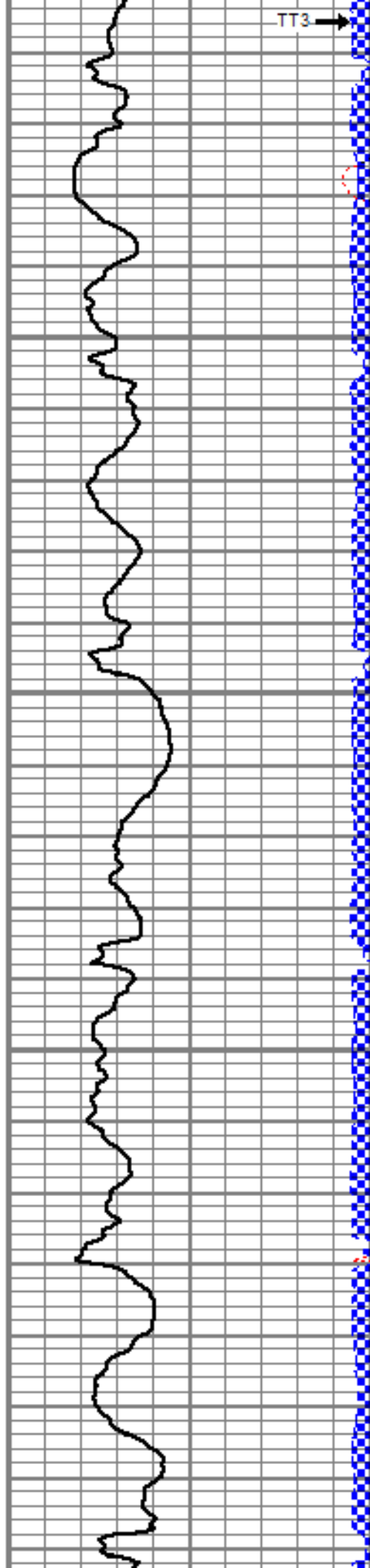


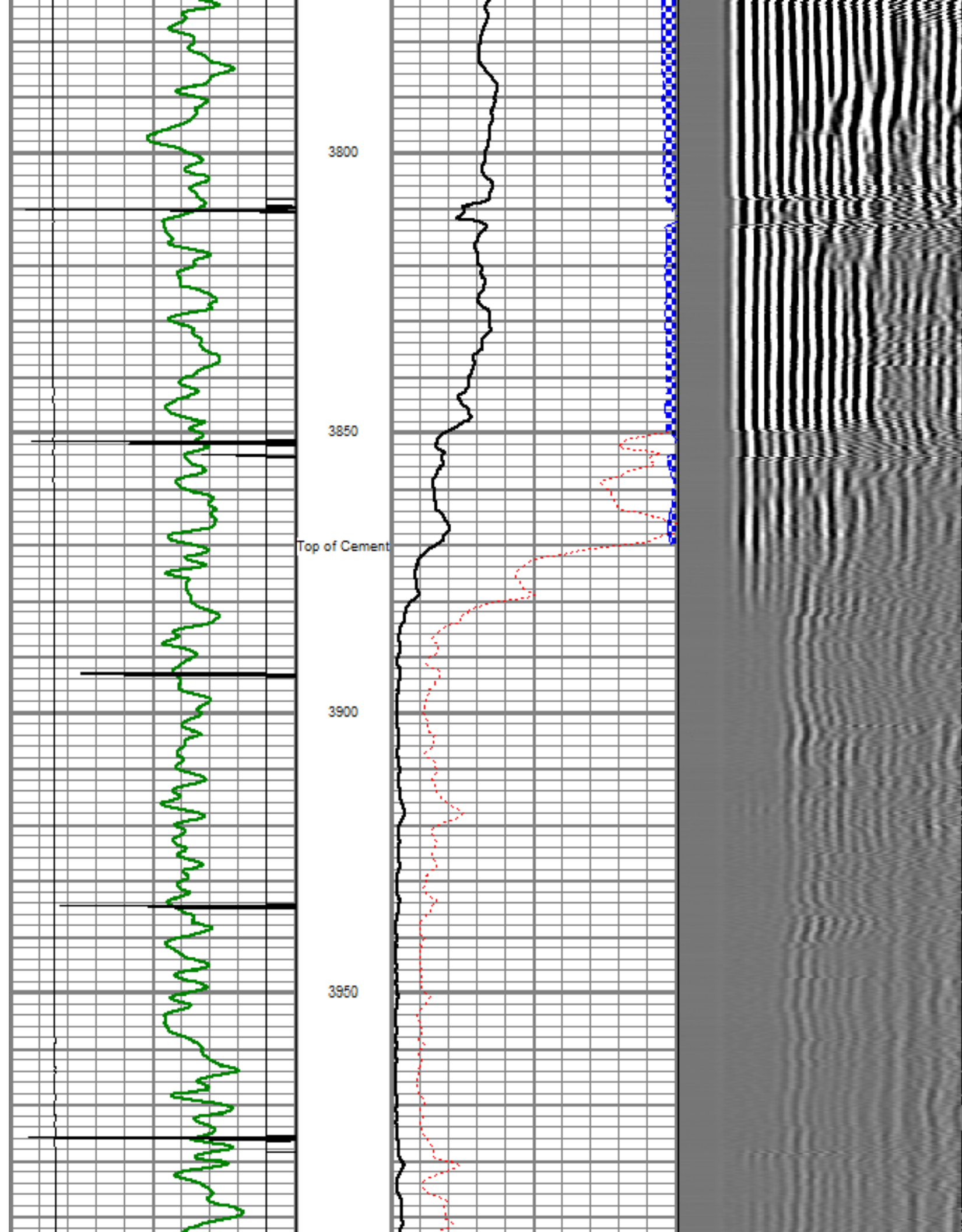
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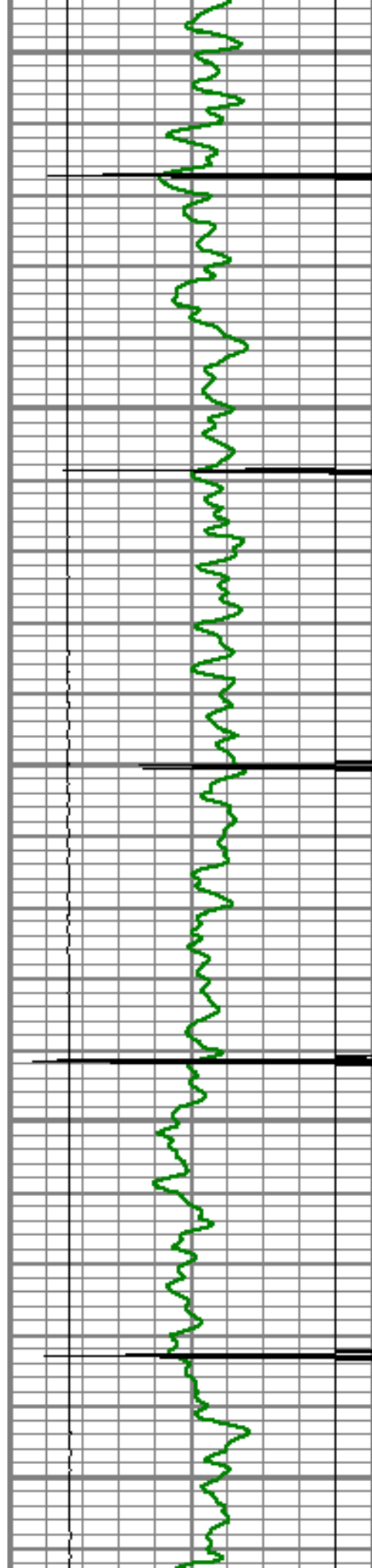
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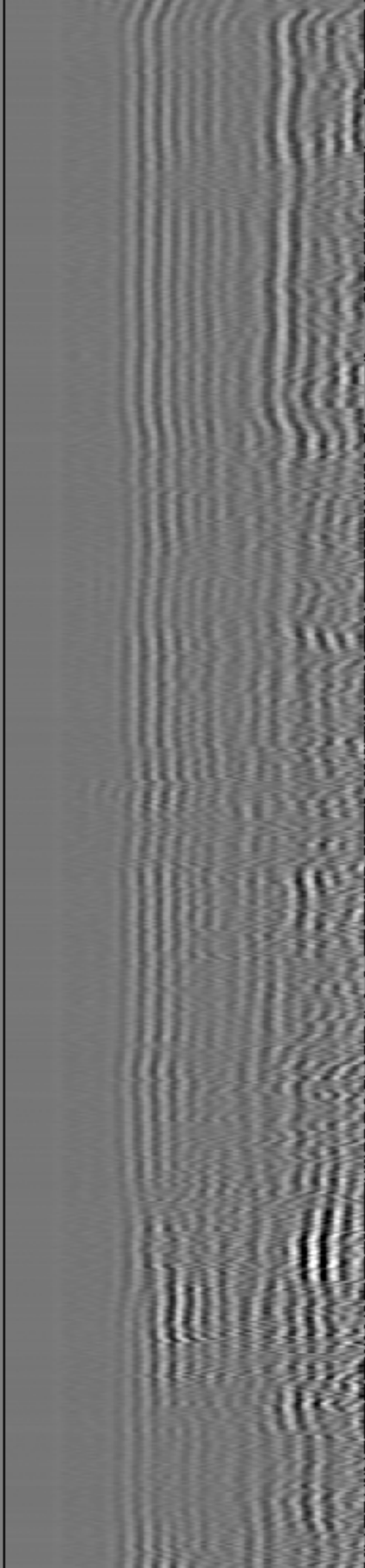
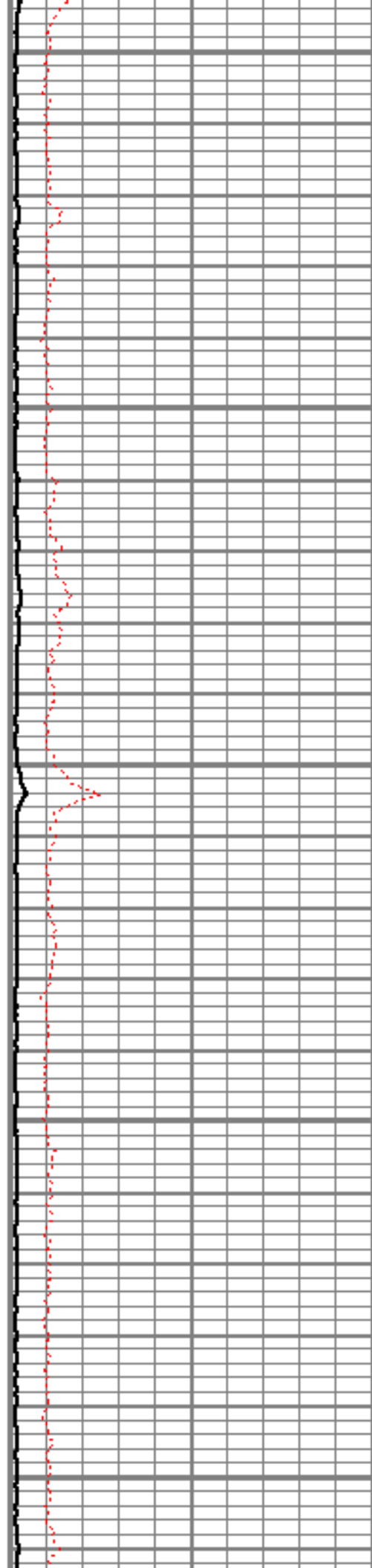
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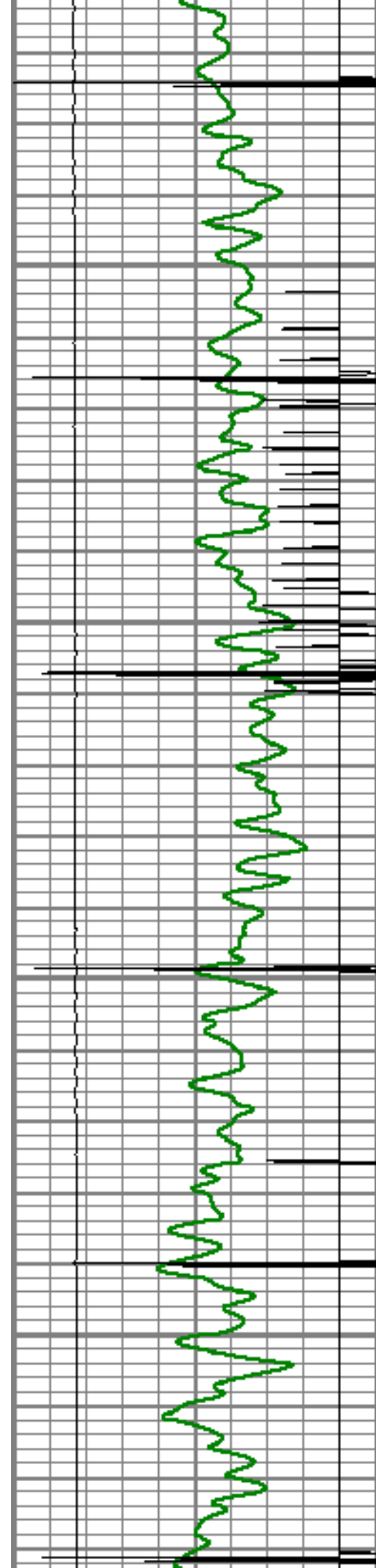
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4150

4200



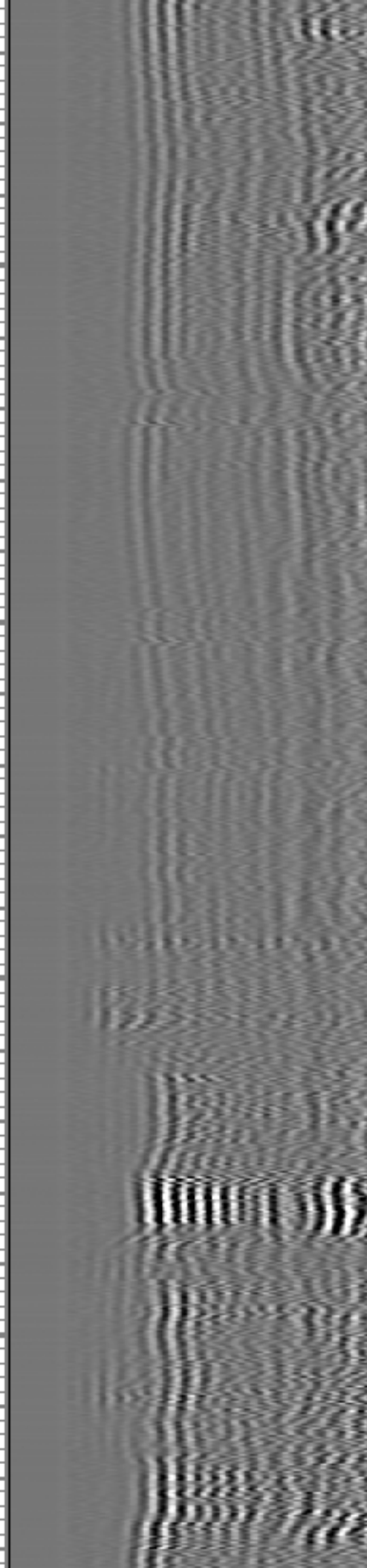
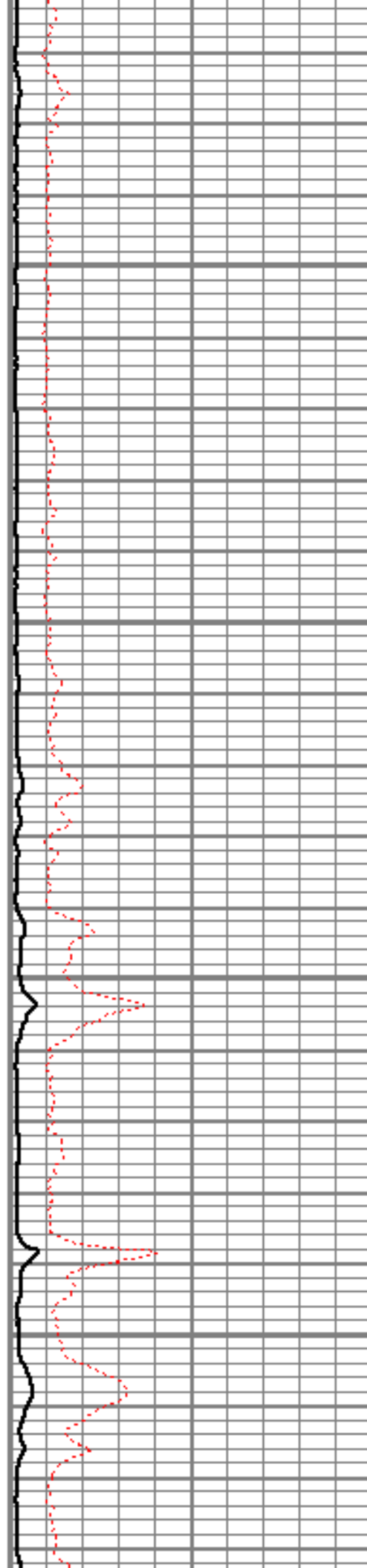


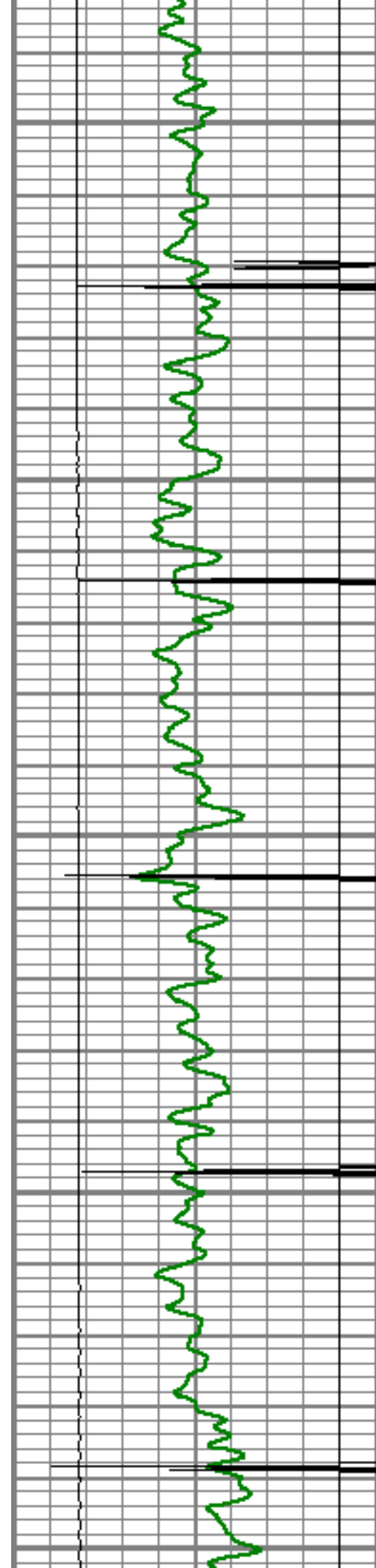
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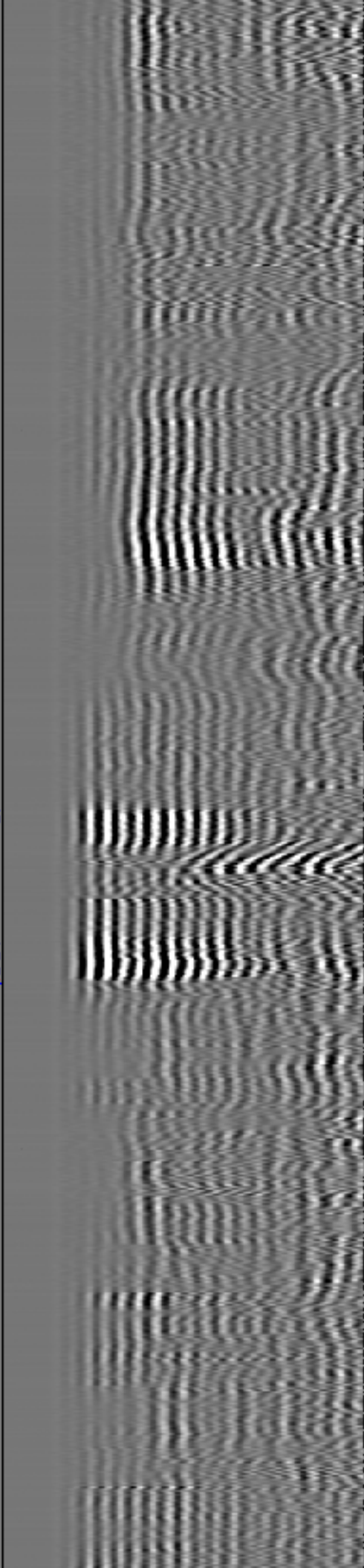
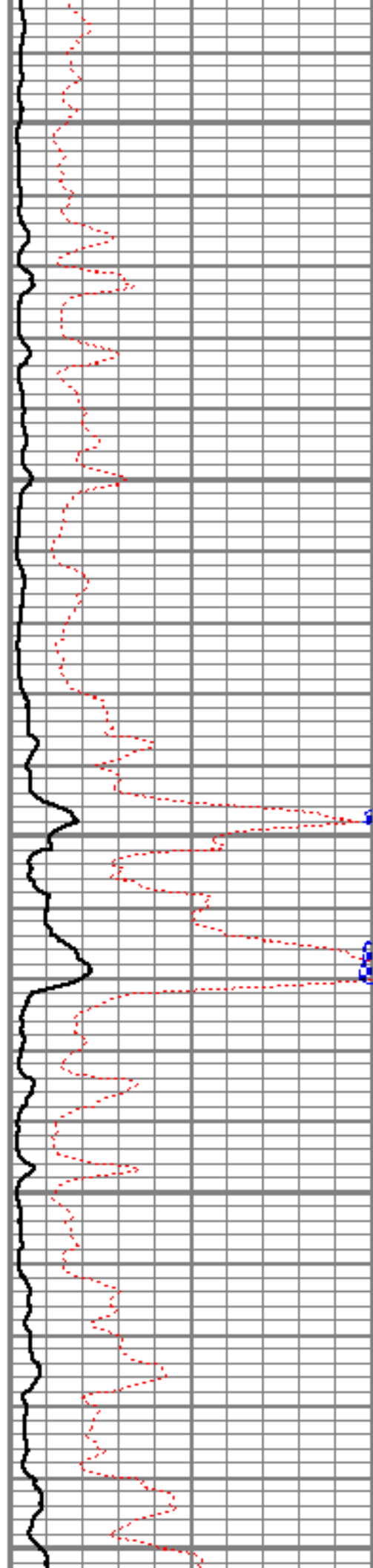
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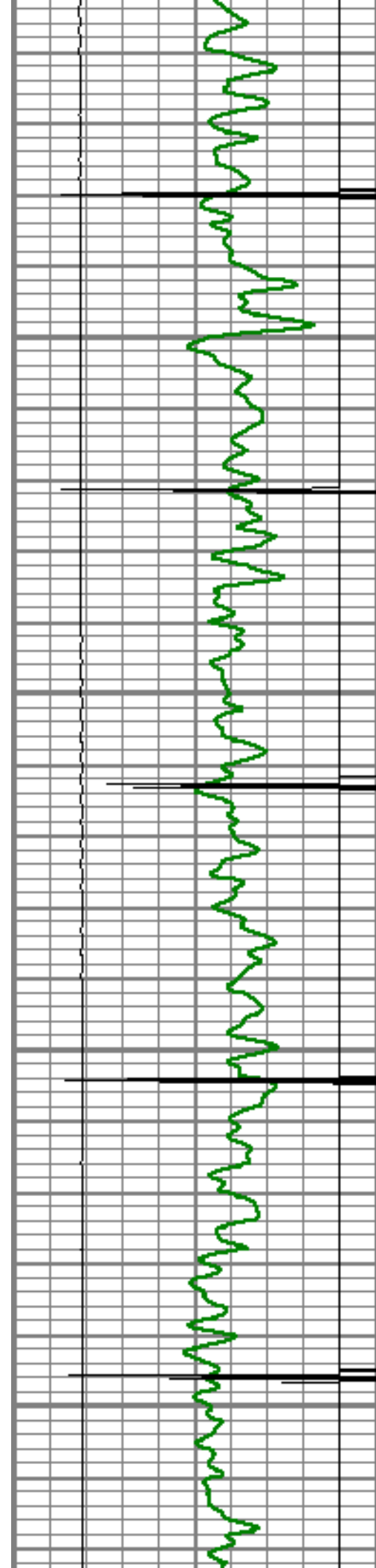
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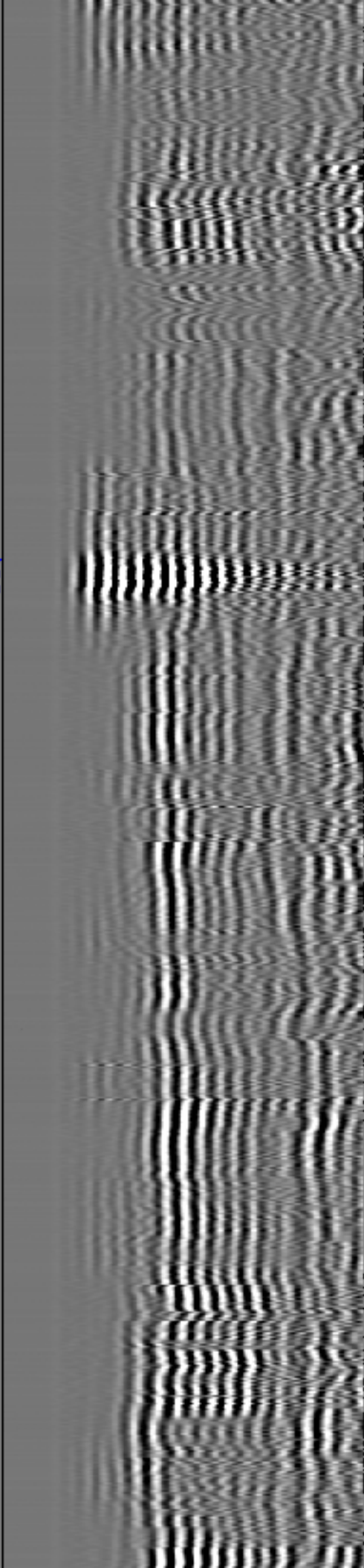
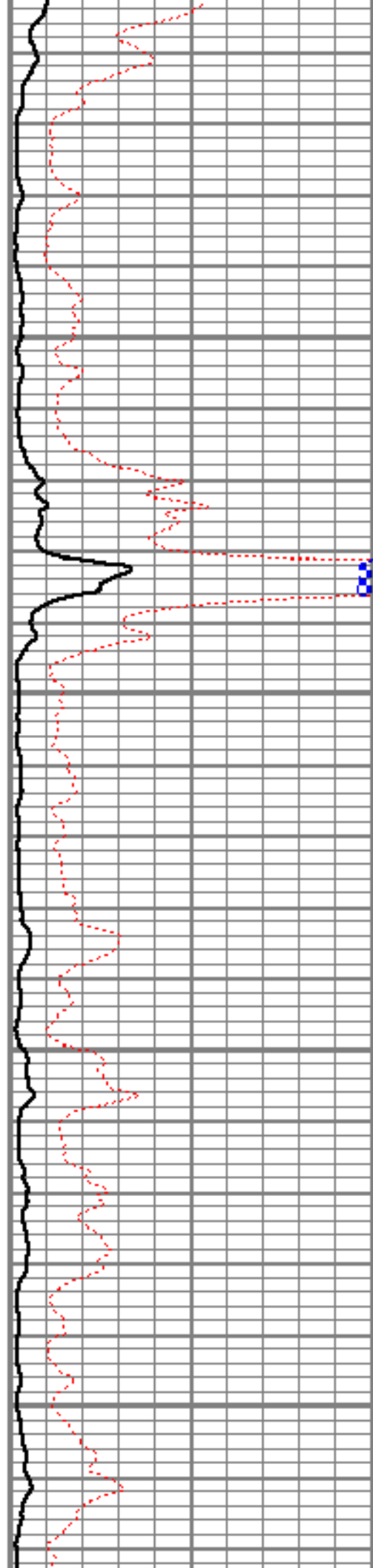


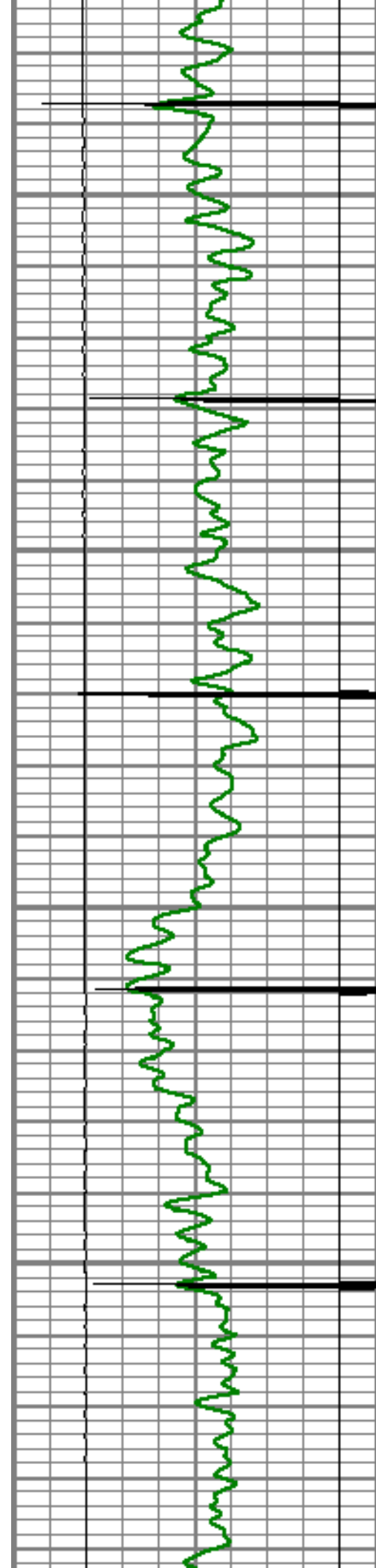
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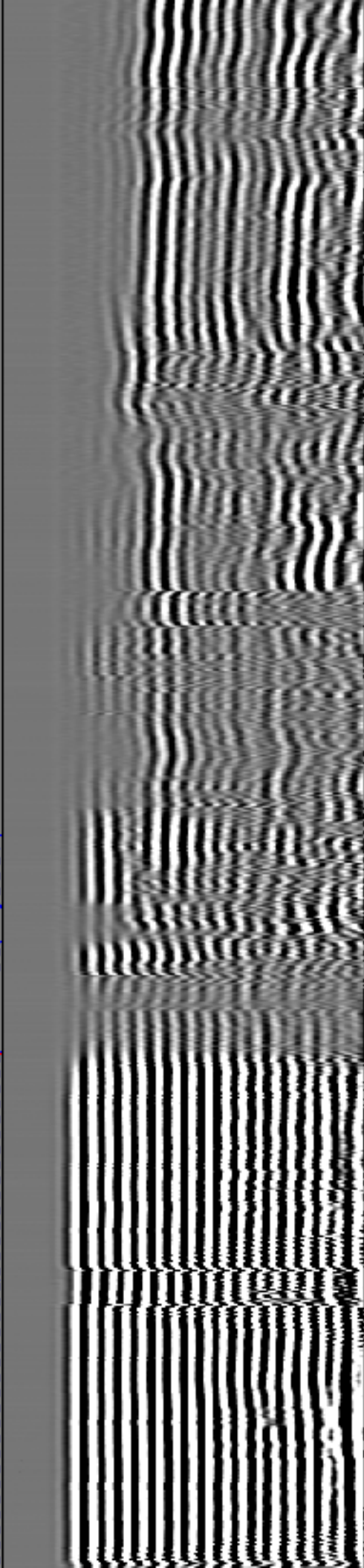
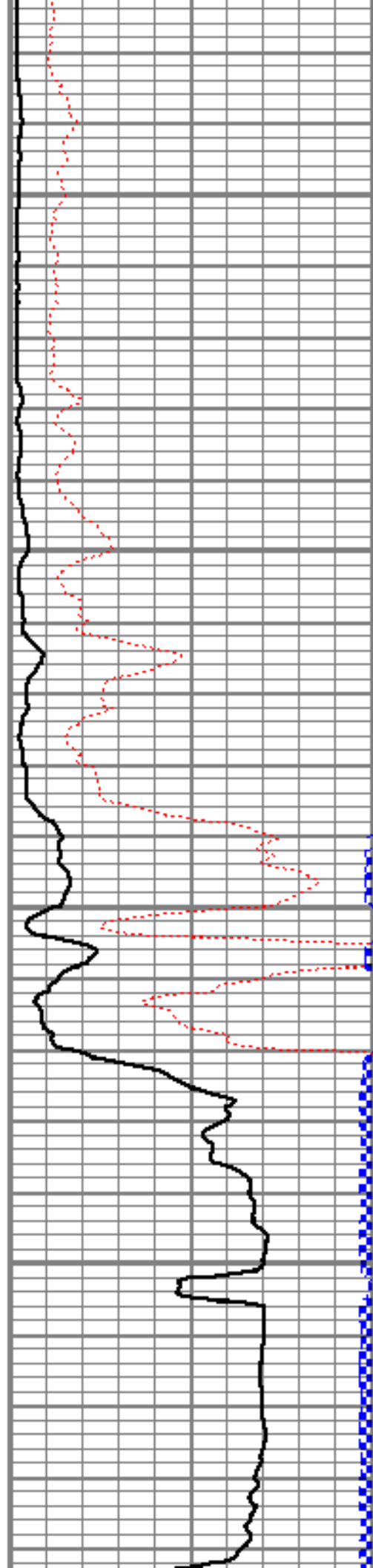


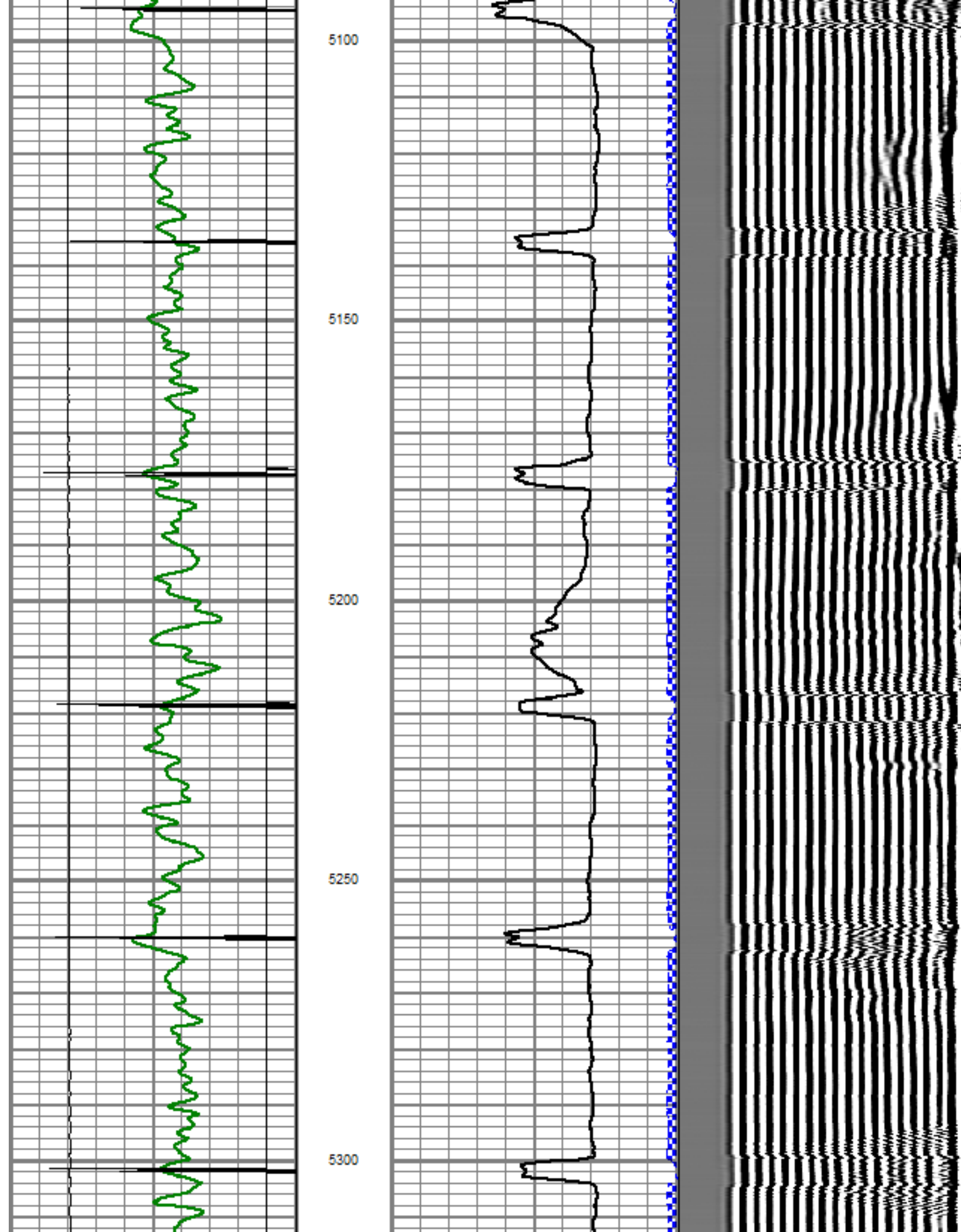
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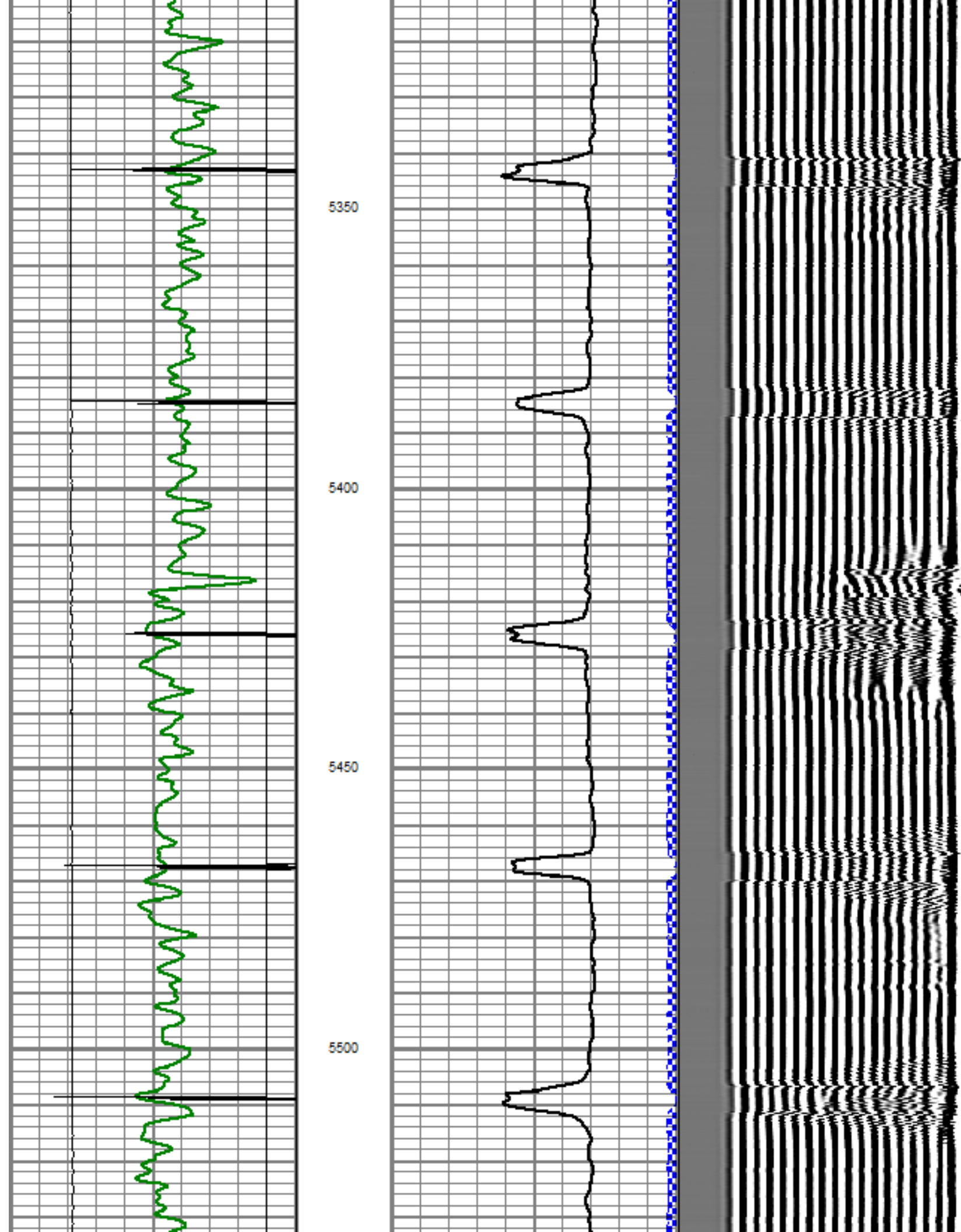
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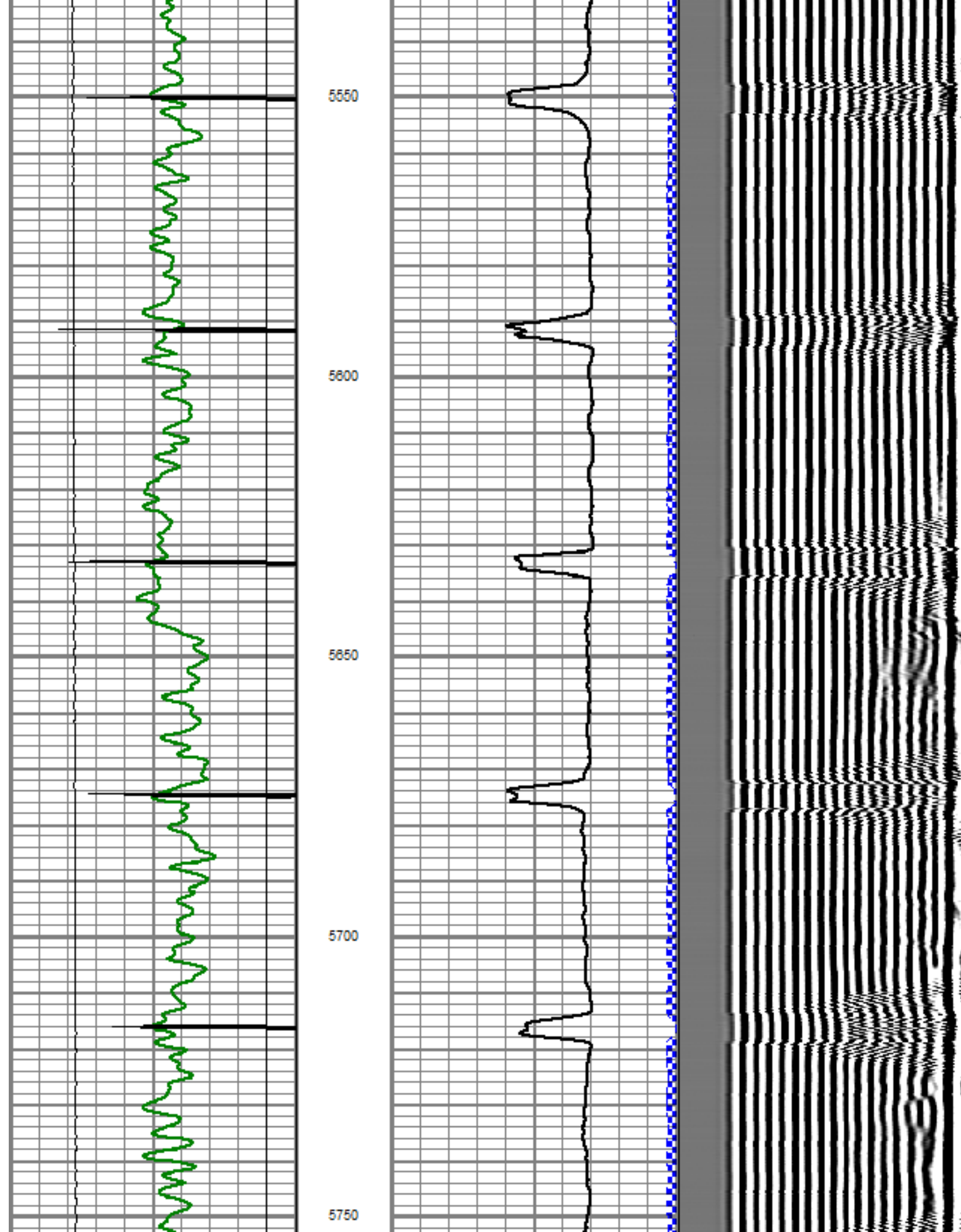
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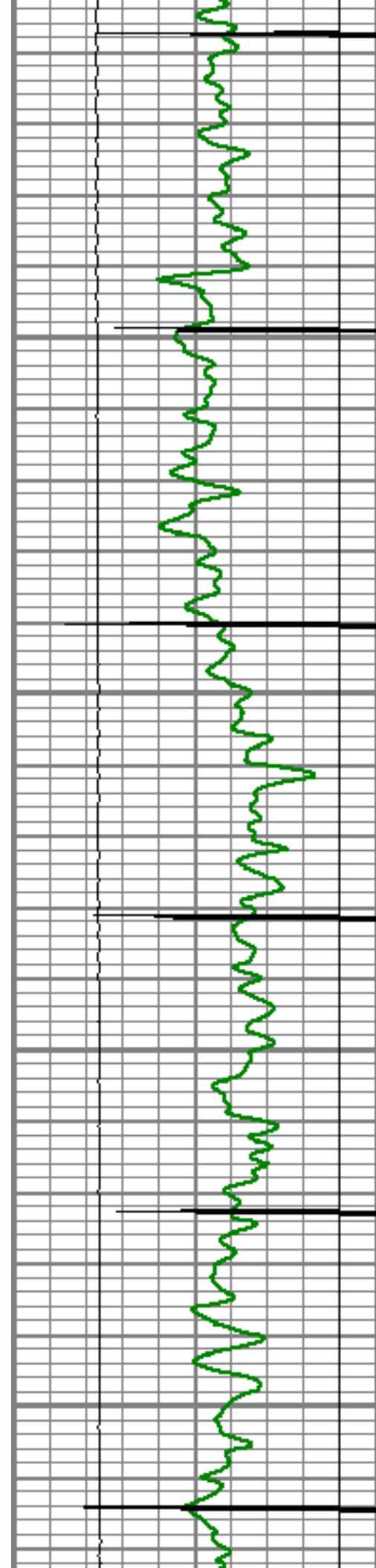
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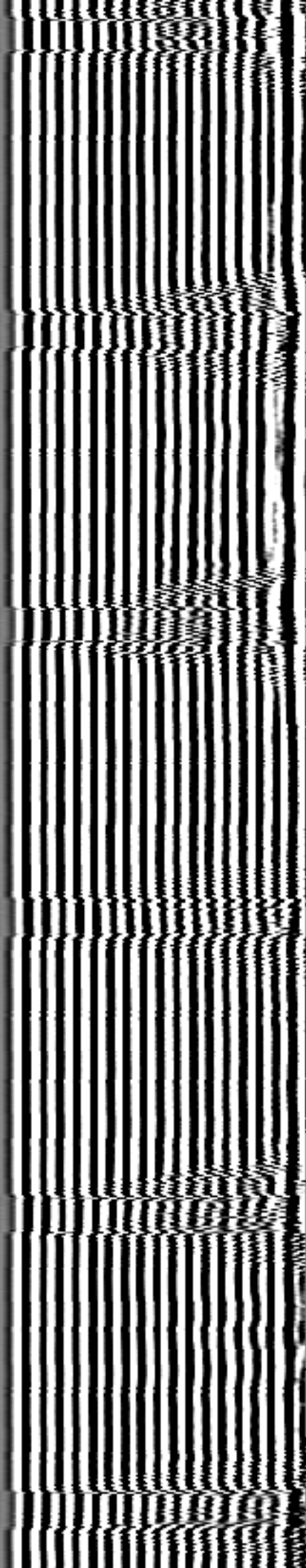
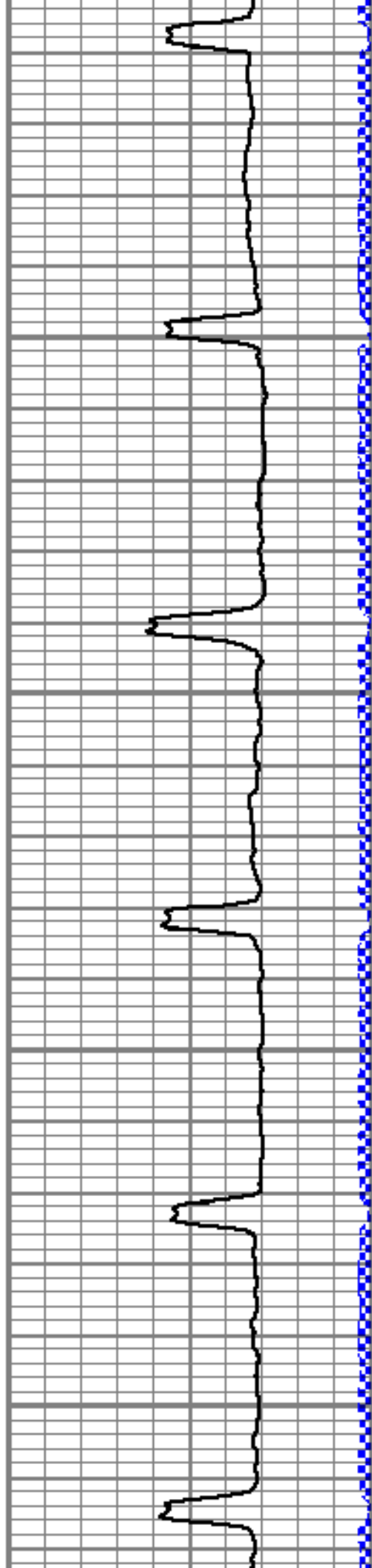


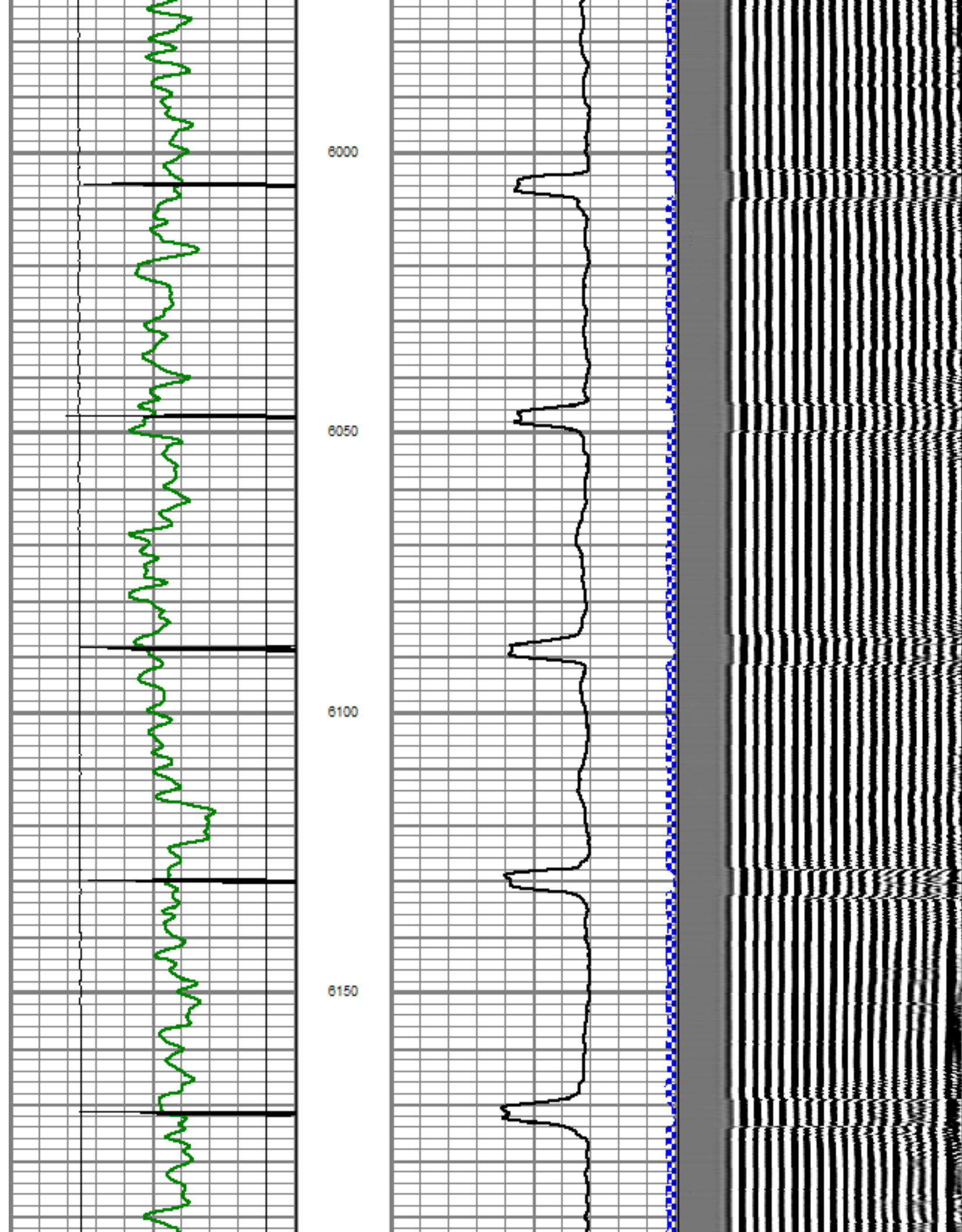
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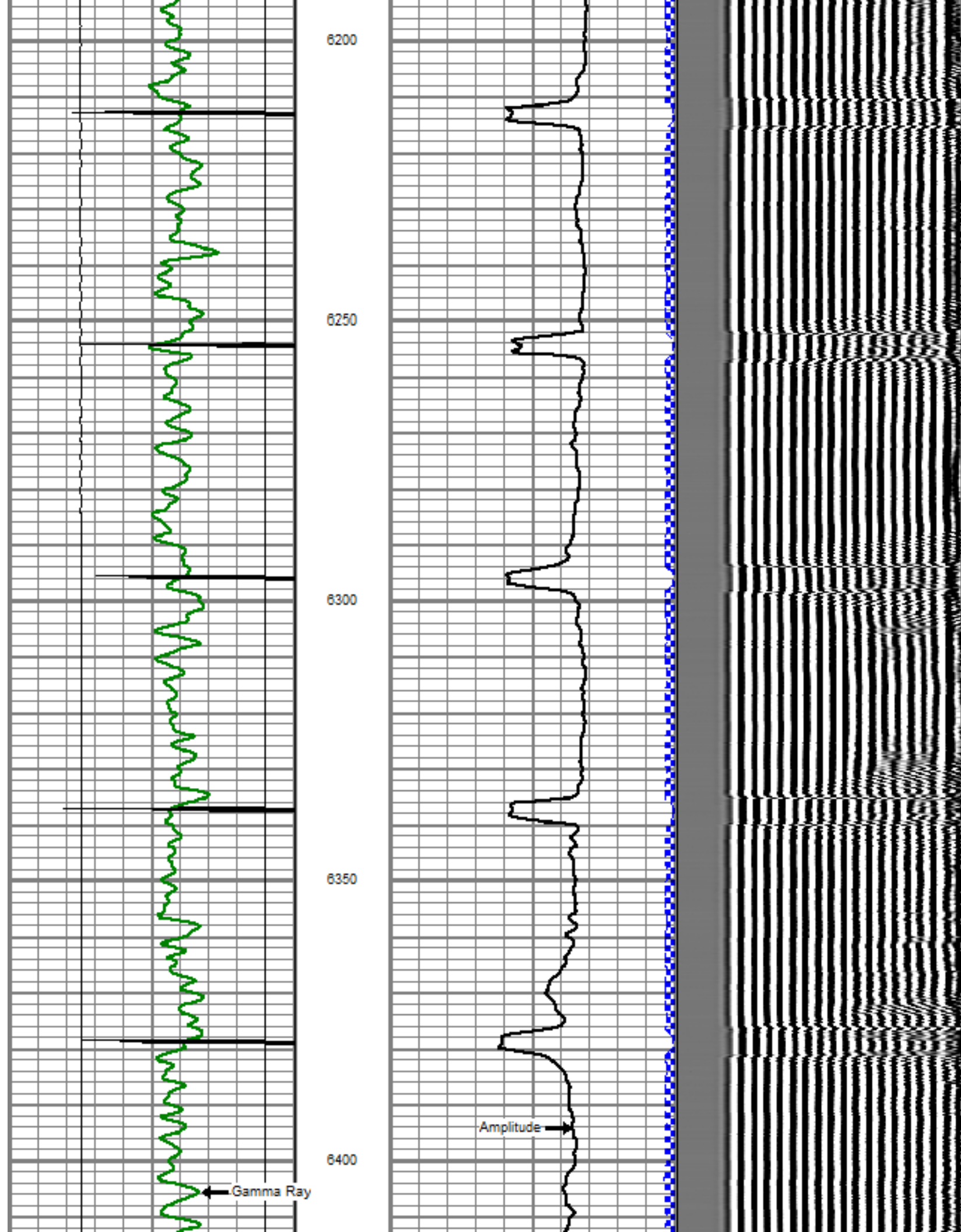
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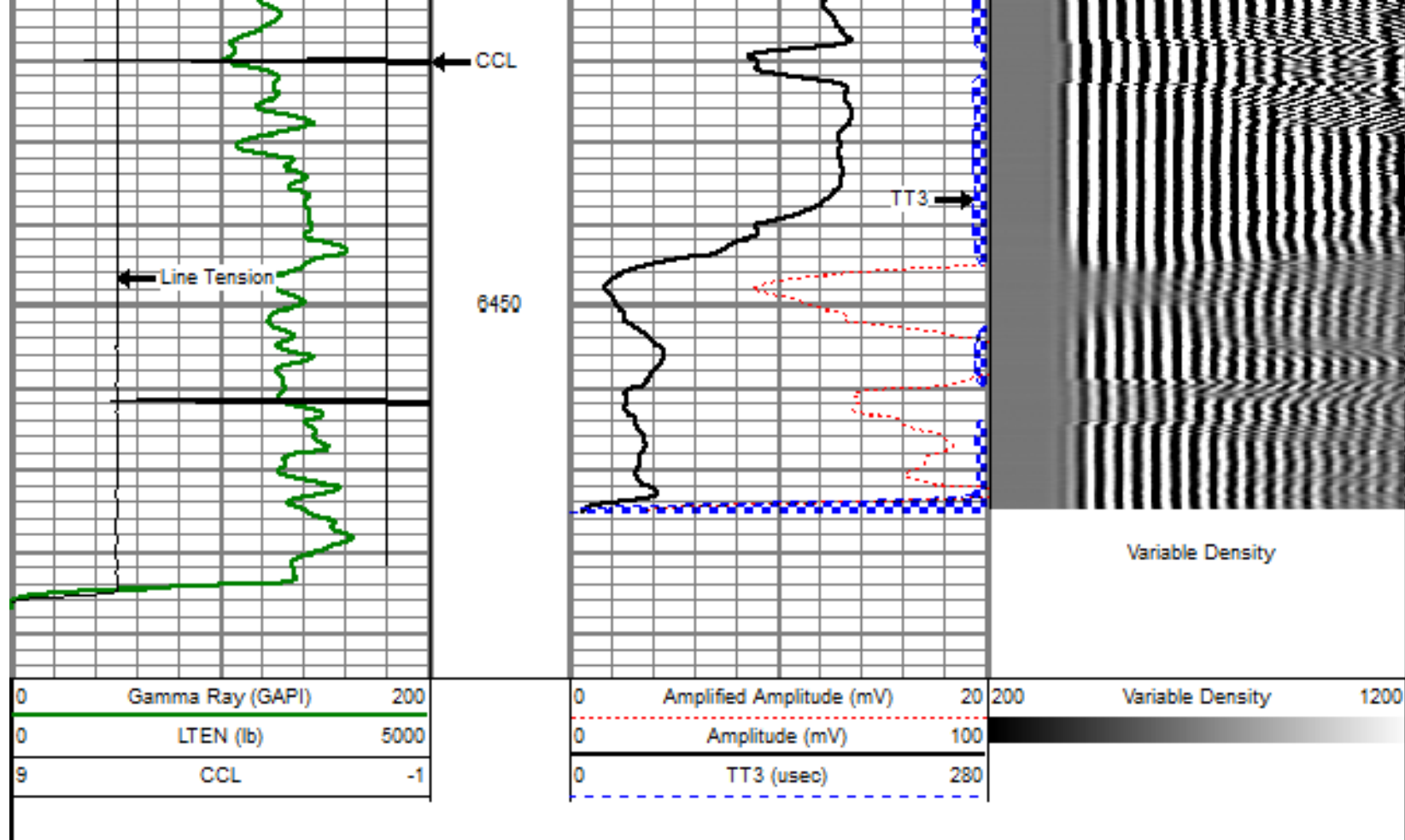
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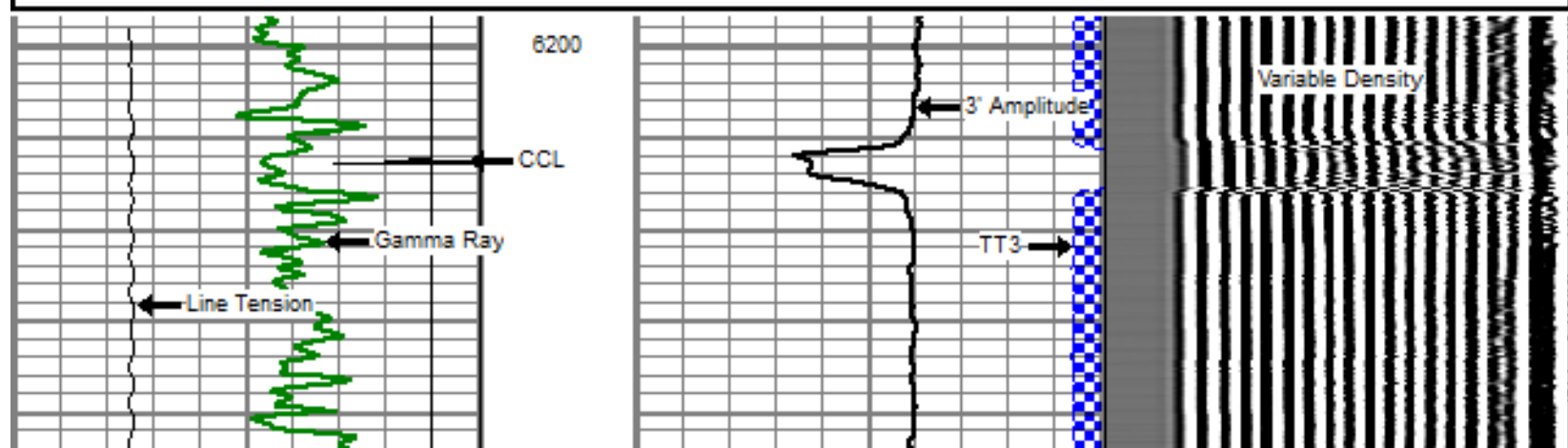
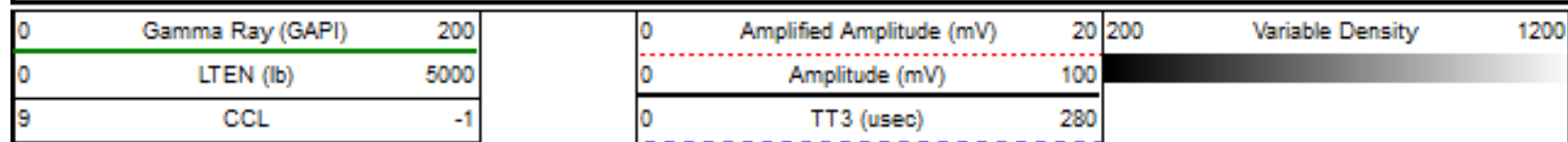


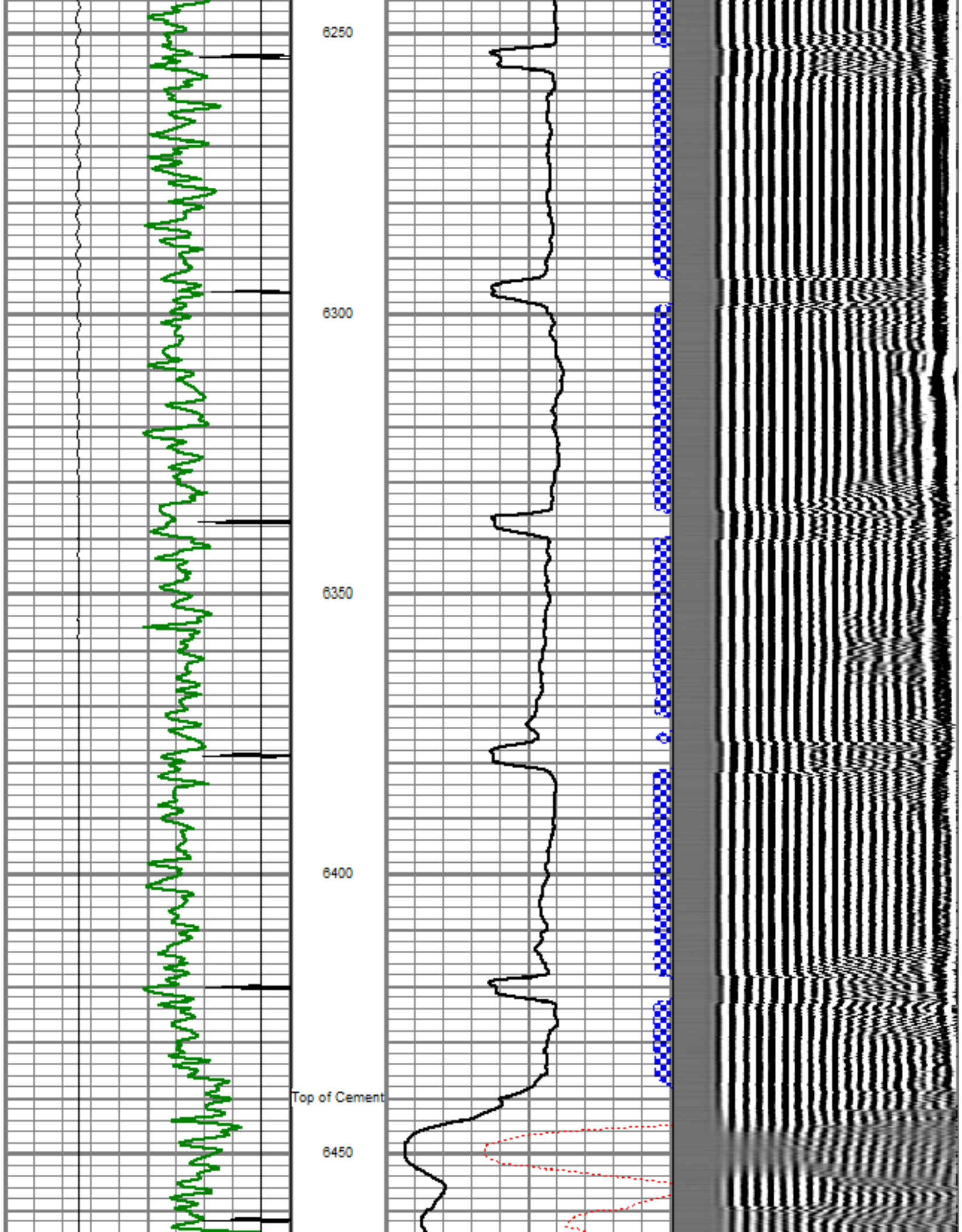


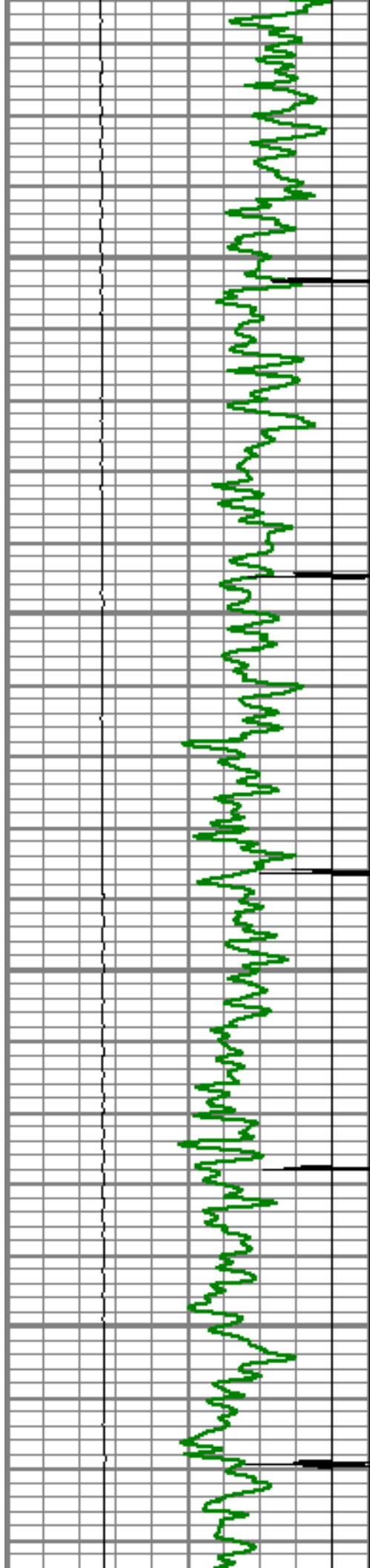
MAIN PASS

5" = 100'

Database File: rasmussen 4-4-28.db
 Dataset Pathname: pass3
 Presentation Format: dobl_prb
 Dataset Creation: Sat Apr 06 14:25:08 2013 by Log SCH 120430
 Charted by: Depth in Feet scaled 1:240





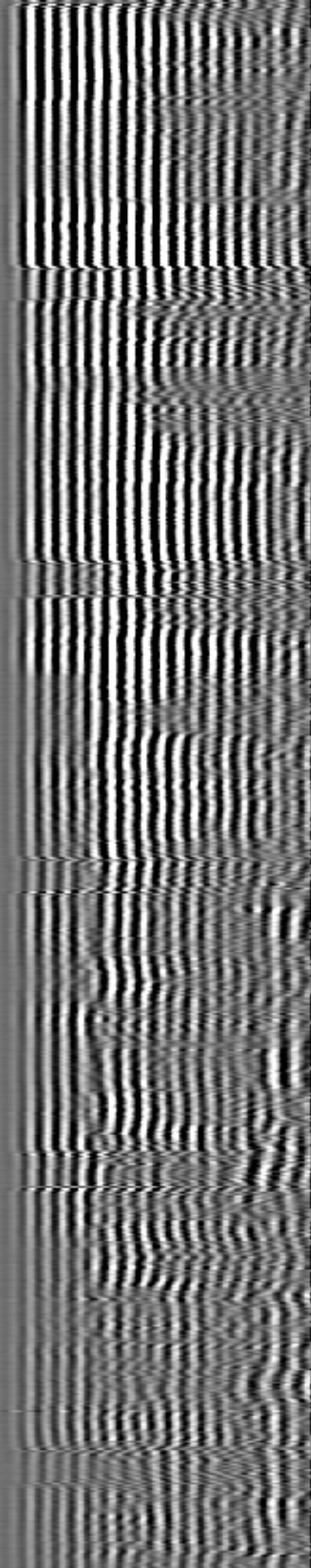
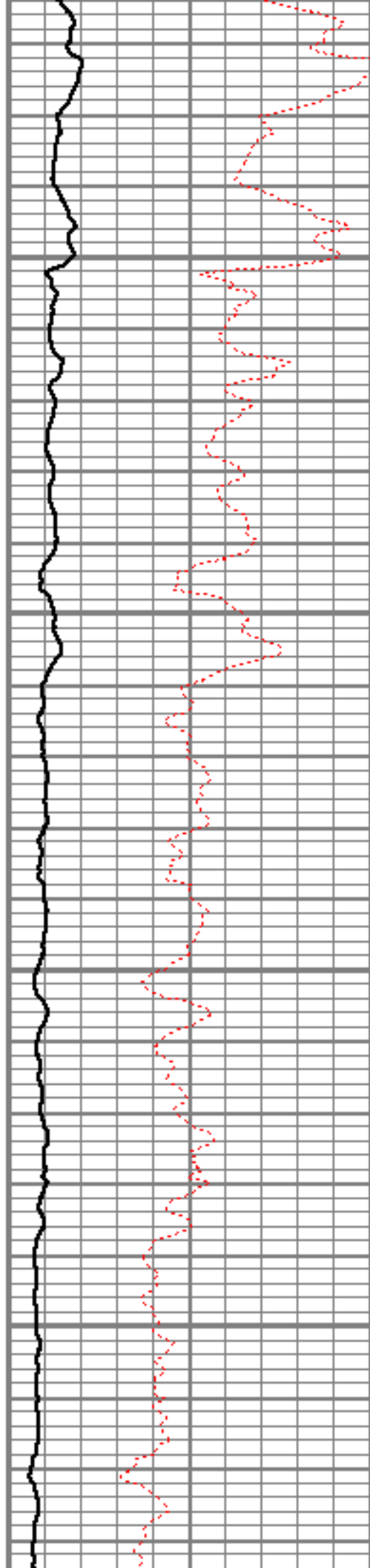


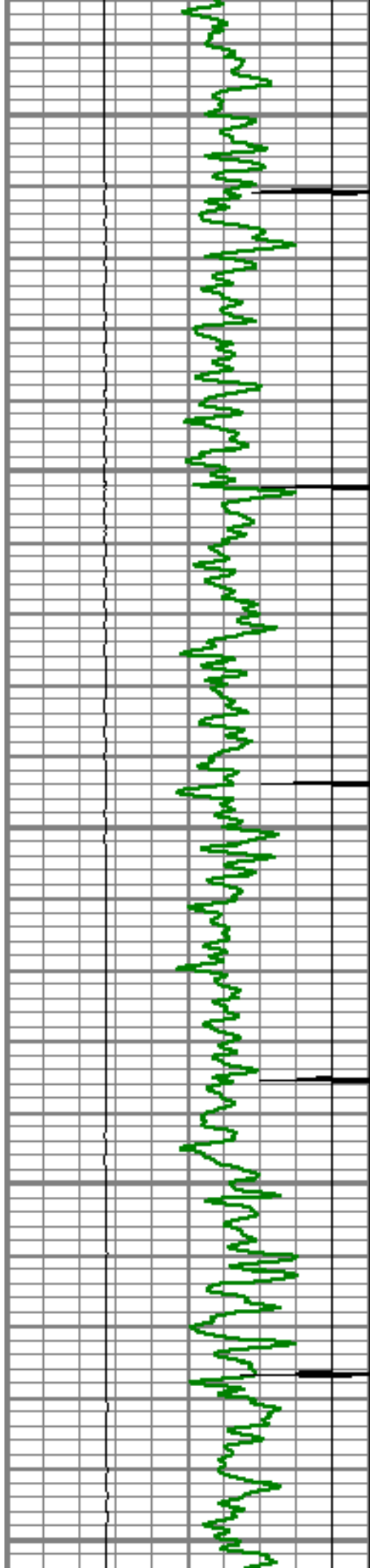
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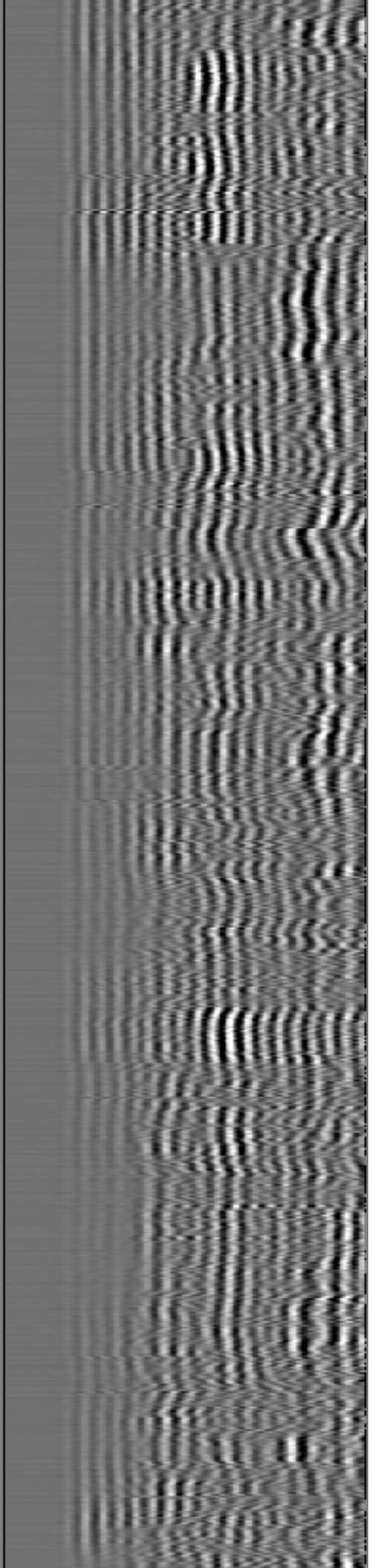
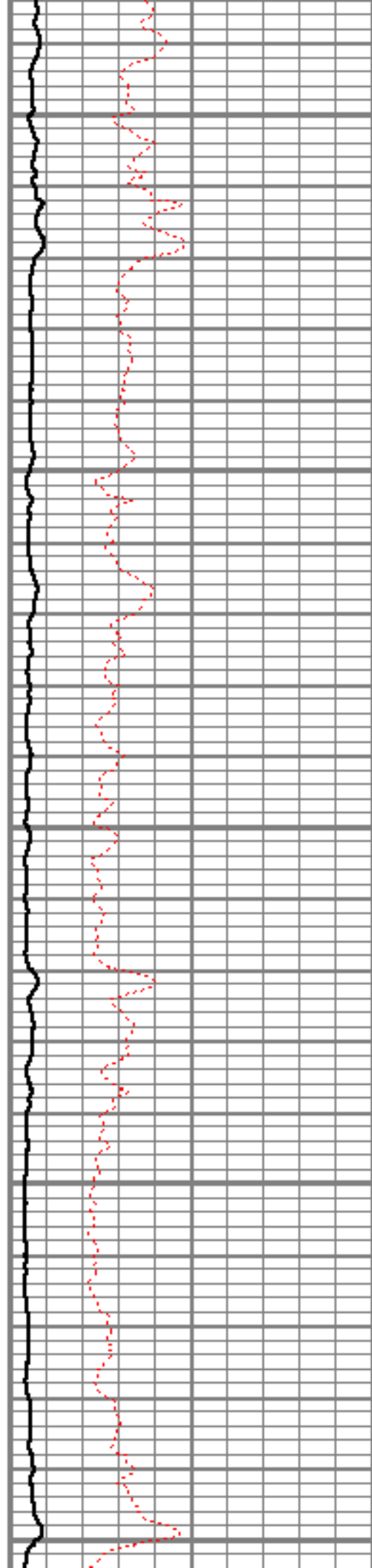
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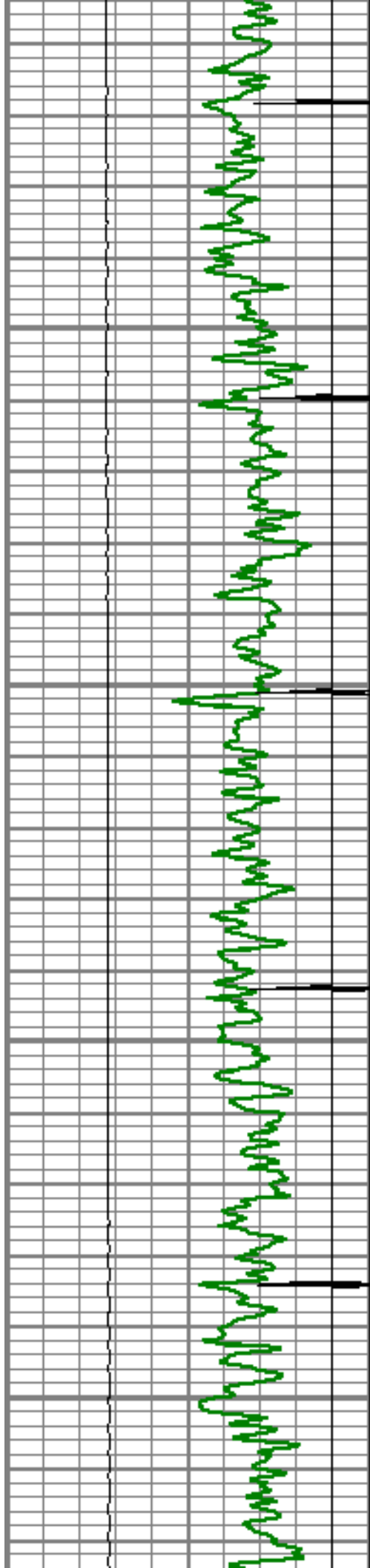
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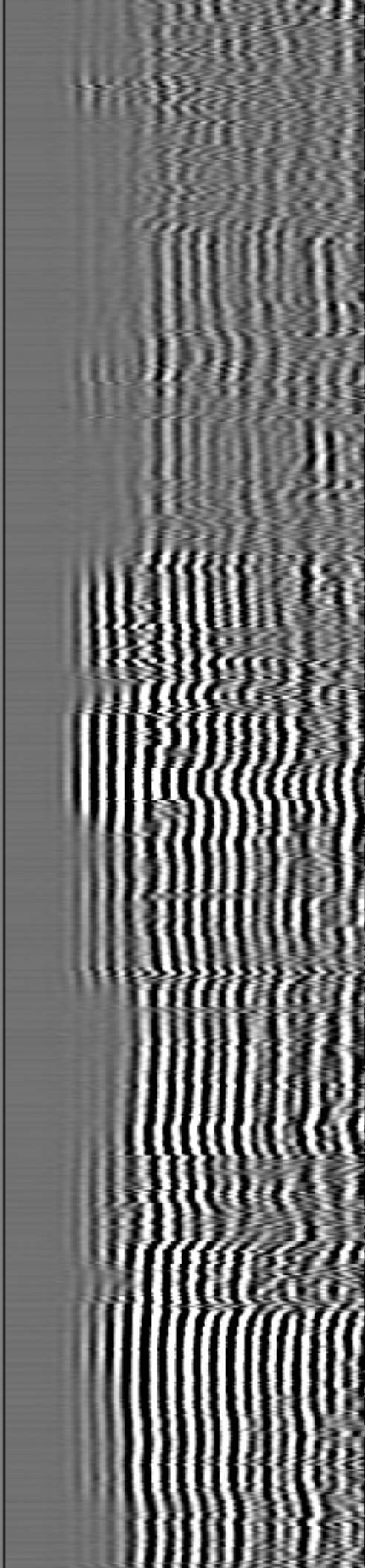
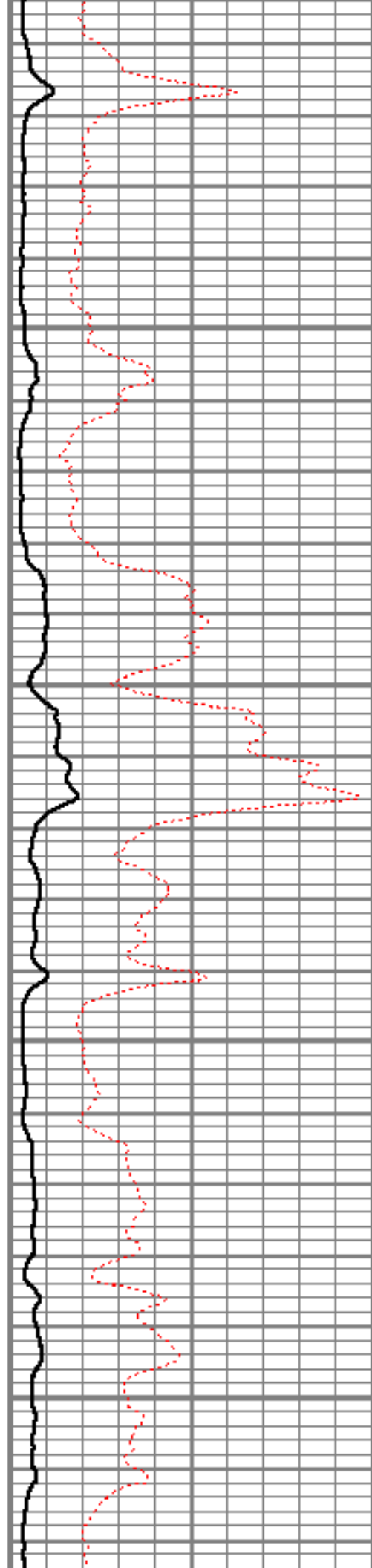


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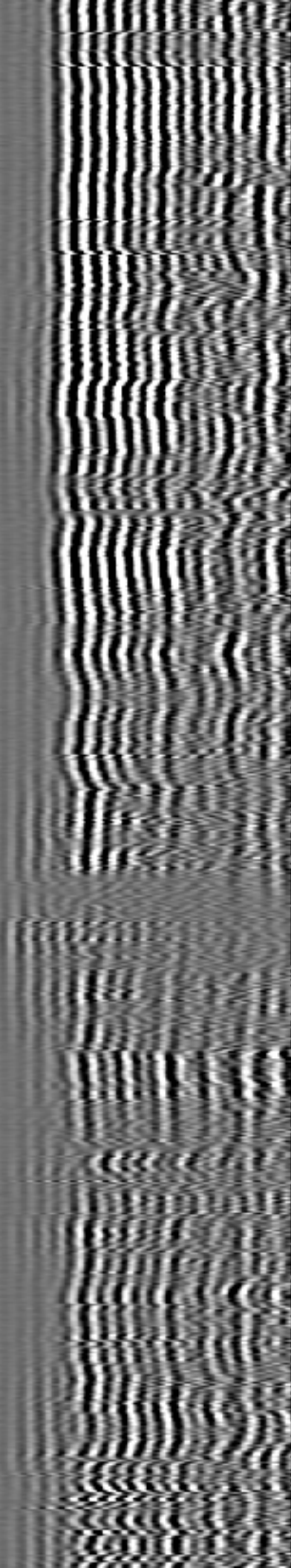
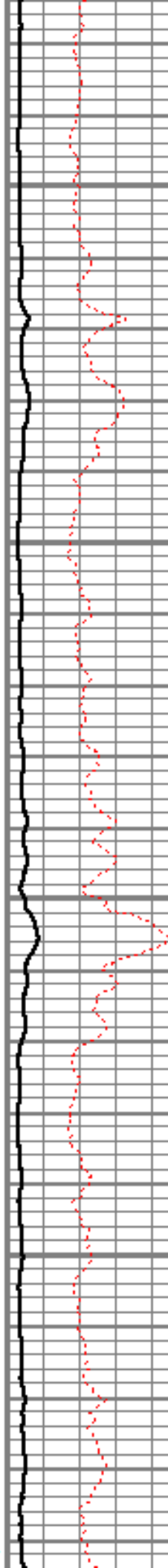
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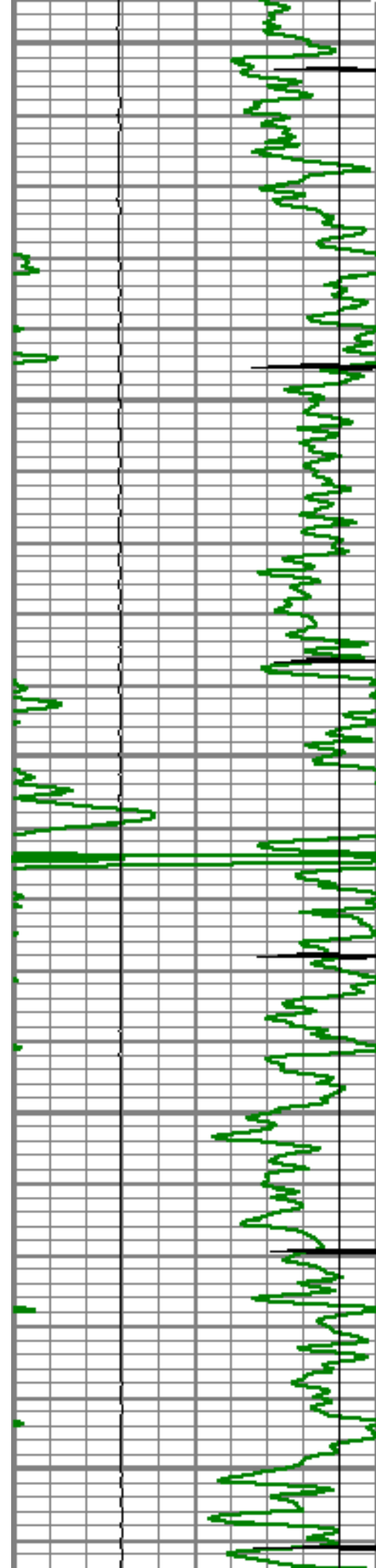
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SHORT JOINT





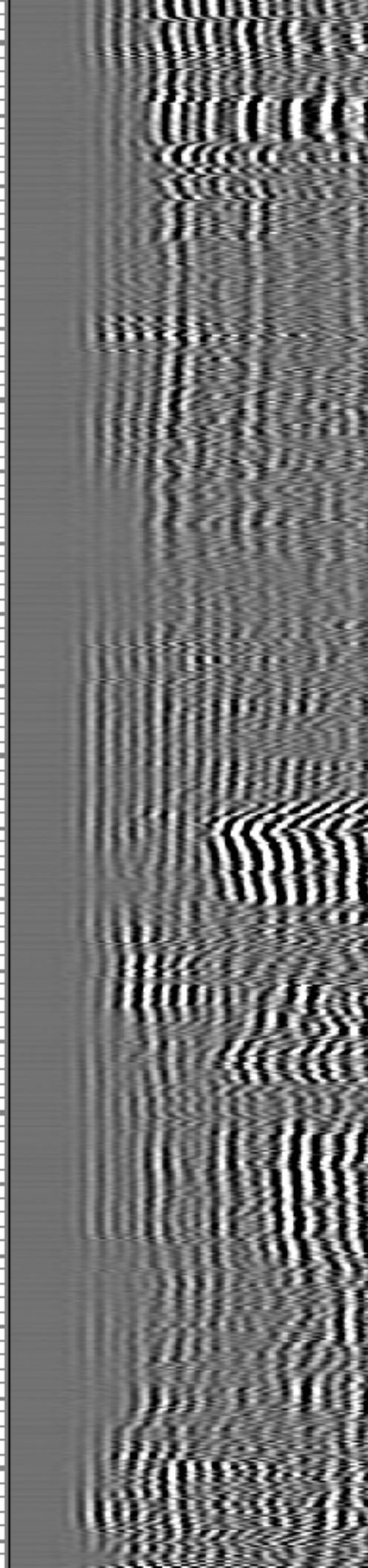
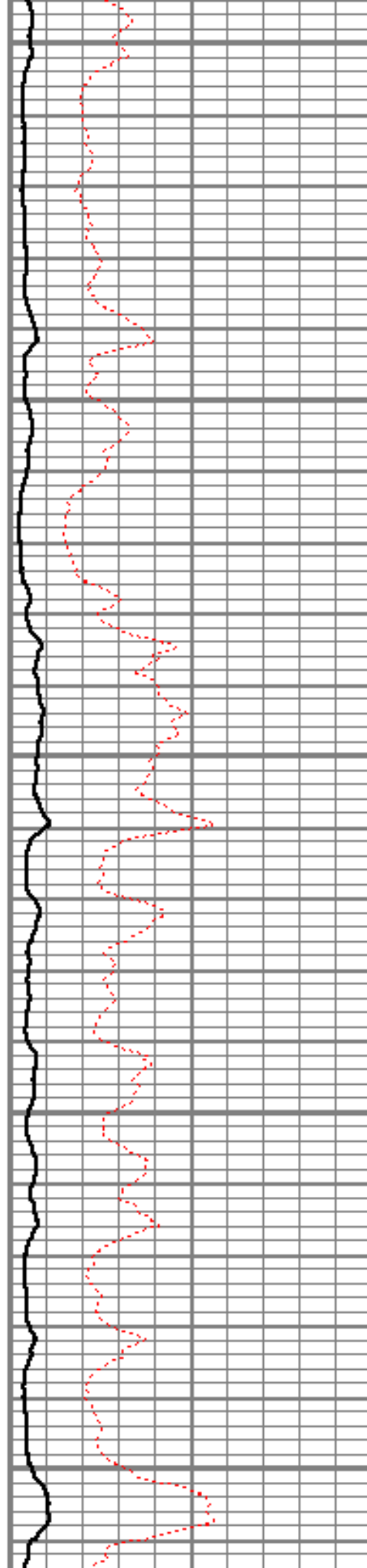
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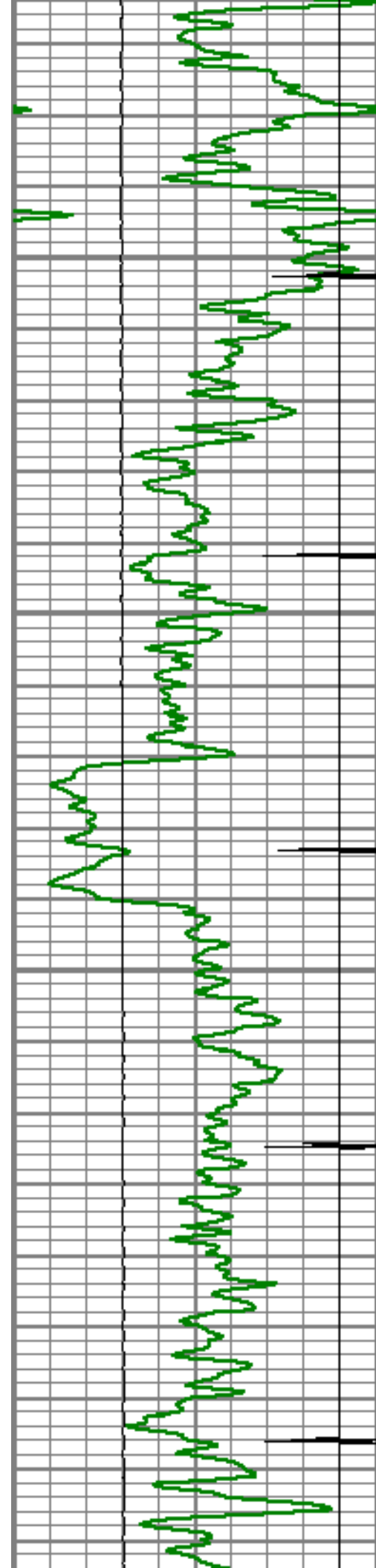
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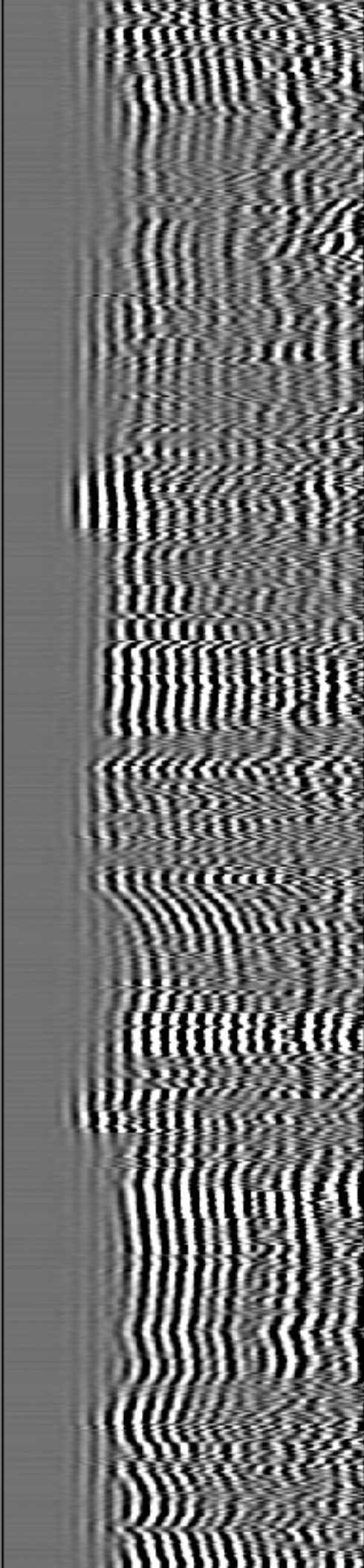
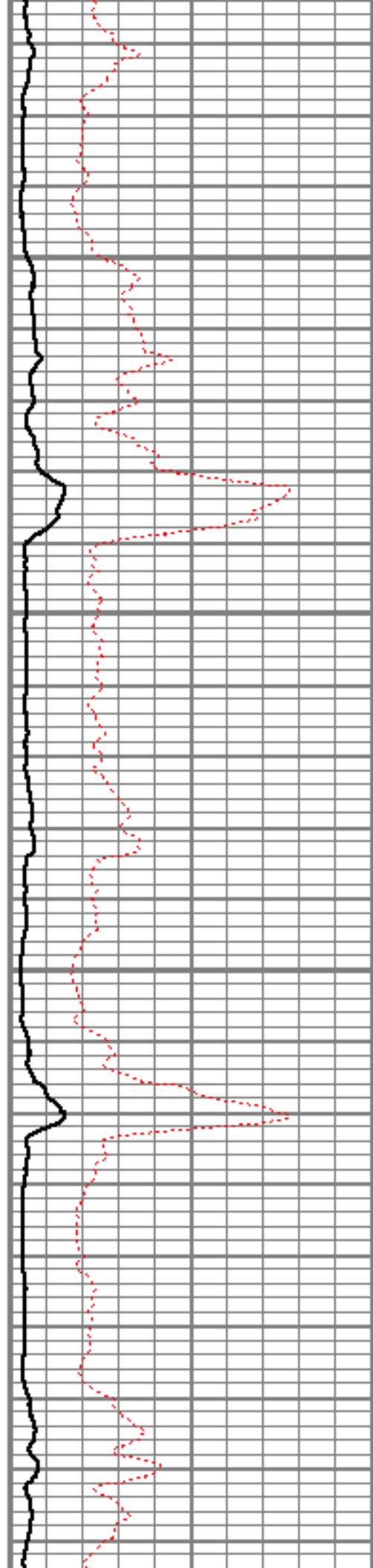


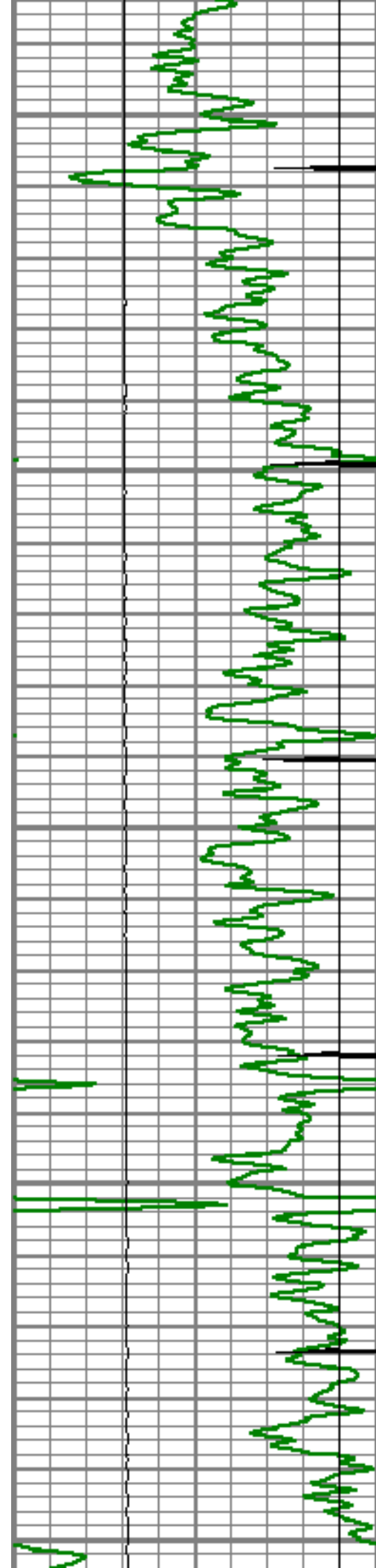
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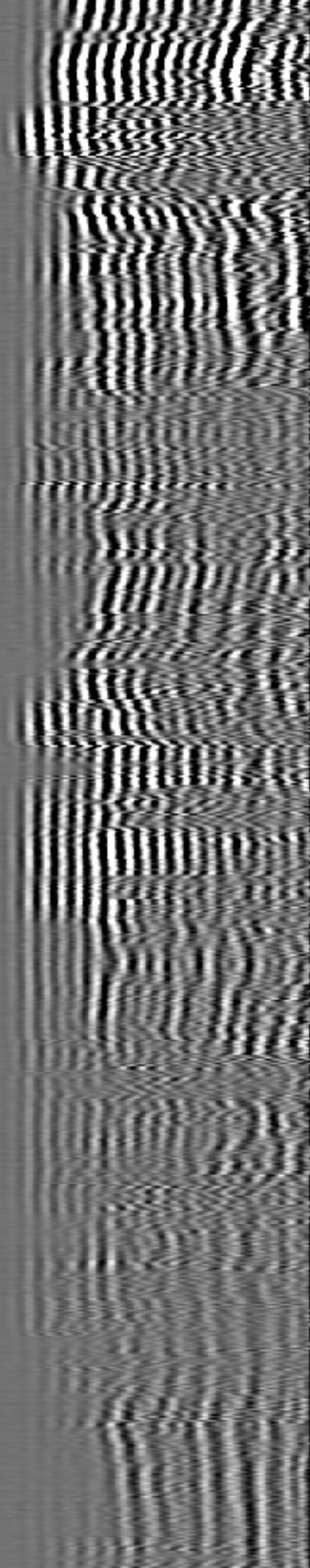
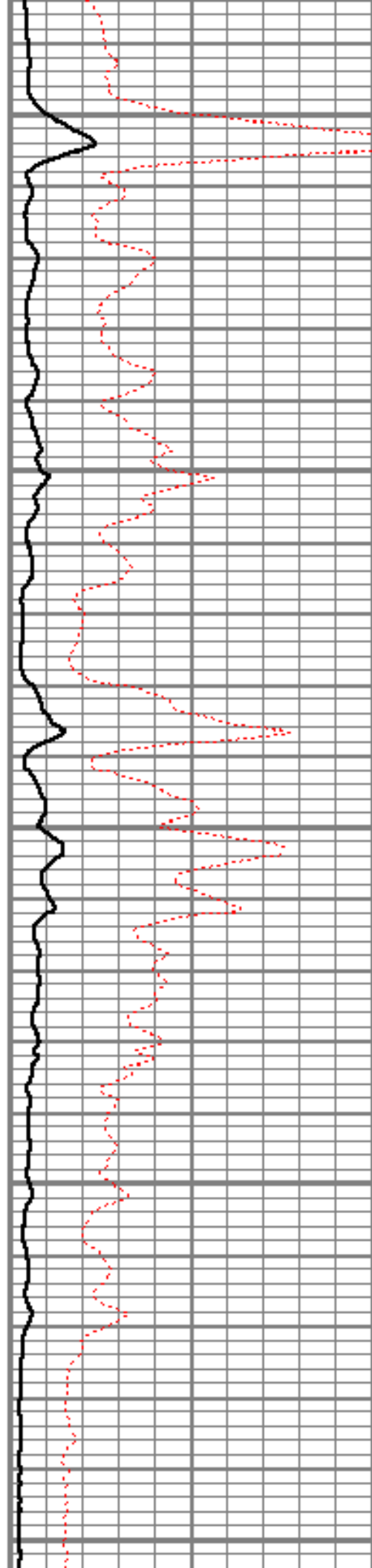
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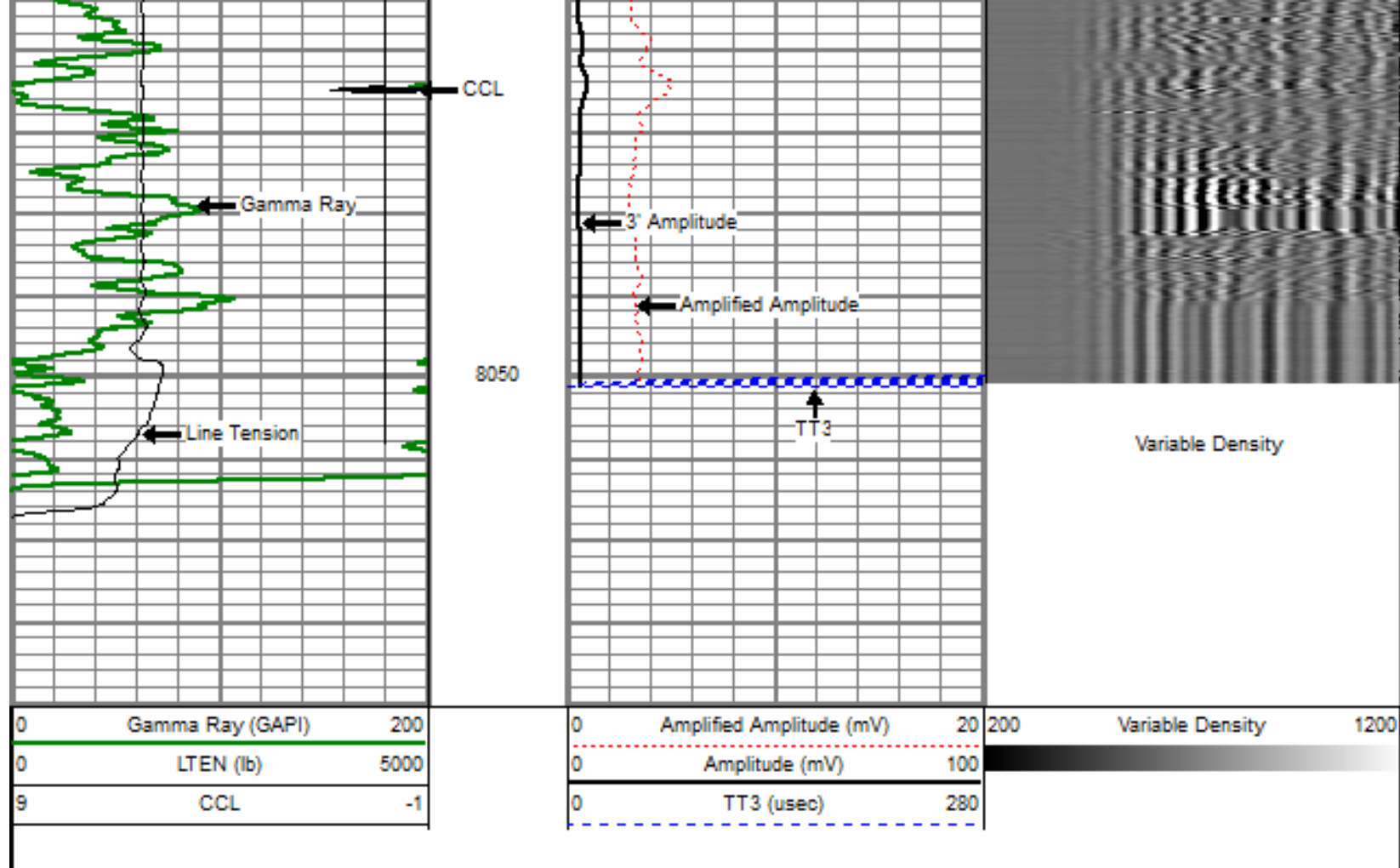
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8000





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	16.56		CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.77 1) Probe 2.75" Dual Receiver Bond		2.75	60.00
WVF5	15.56					

				Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer	2.88	2.75	10.00
CCL	8.21			CCL-PRB_CCL_2MAG (PRB_CCL_2MAG_02.02) Probe 2 Magnet CCL		2.75	
GR	3.63			GR-PROBE_GR (PRB_GR_275_01) Probe stand alone Gamma Ray Tool	4.54	2.75	30.00
TEMP	0.17			TEMP-Comprobe (TEMP_CMPRB_1375_01) Positive pulse Temp tool	2.88	1.38	15.00
Dataset: rasmussen 4-4-28.db: field/well/run1/pass3 Total Length: 24.98 ft Total Weight: 126.50 lb O.D.: 2.75 in							

	Company	ENCANA OIL & GAS (USA) INC
	Well	RASMUSSEN 4-4-28
	Field	WATTENBERG
	County	WELD
	State	COLORADO