



CEMENT BOND LOG

Mesa Wireline

Company	ENCANA OIL & GAS (USA) INC		
Well	CRANDELL 2-8-26		
Field	WATTENBERG		
County	BROOMFIELD		
State	COLORADO		
Company ENCANA OIL & GAS (USA) INC		Other Services	
Well CRANDELL 2-8-26		NONE	
Field WATTENBERG			
County BROOMFIELD		State COLORADO	
Location:		API # : 05-014-20701-0000	
SHL: 1695' FSL & 1008' FWL			
BHL: 50' FSL & 1350' FWL			
SEC: 26 TWP: 1N RGE: 68W			
Permanent Datum GROUND LEVEL		Elevation 5217'	
Log Measured From KELLY BUSHING = 13'		K.B. 5230'	
Drilling Measured From KELLY BUSHING		D.F. 5229'	
		G.L. 5217'	

Date	10 NOVEMBER 2011									
Run Number	ONE									
Depth Driller	8863'									
Depth Logger	8814'									
Bottom Logged Interval	8814'									
Top Log Interval	3500'									
Open Hole Size	7.875"									
Type Fluid	WATER									
Density / Viscosity	~8.3#									
Max. Recorded Temp.	260 DEG F									
Estimated Cement Top	3725'									
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										
Run Number	Bit	From	To	Size	Tubing Record					
ONE	12.25"	0'	1095'							
TWO	7.875"	1095'	8878'							
Casing Record	Size	Wgt/Ft			Top			Bottom		
Surface String	8.625"	24#			0'			1083'		
Prot. String										
Production String	4.5"	11.6#			0'			8863'		
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 27 SEPTEMBER 2011
SHORT JOINT 7731' - 7753'

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



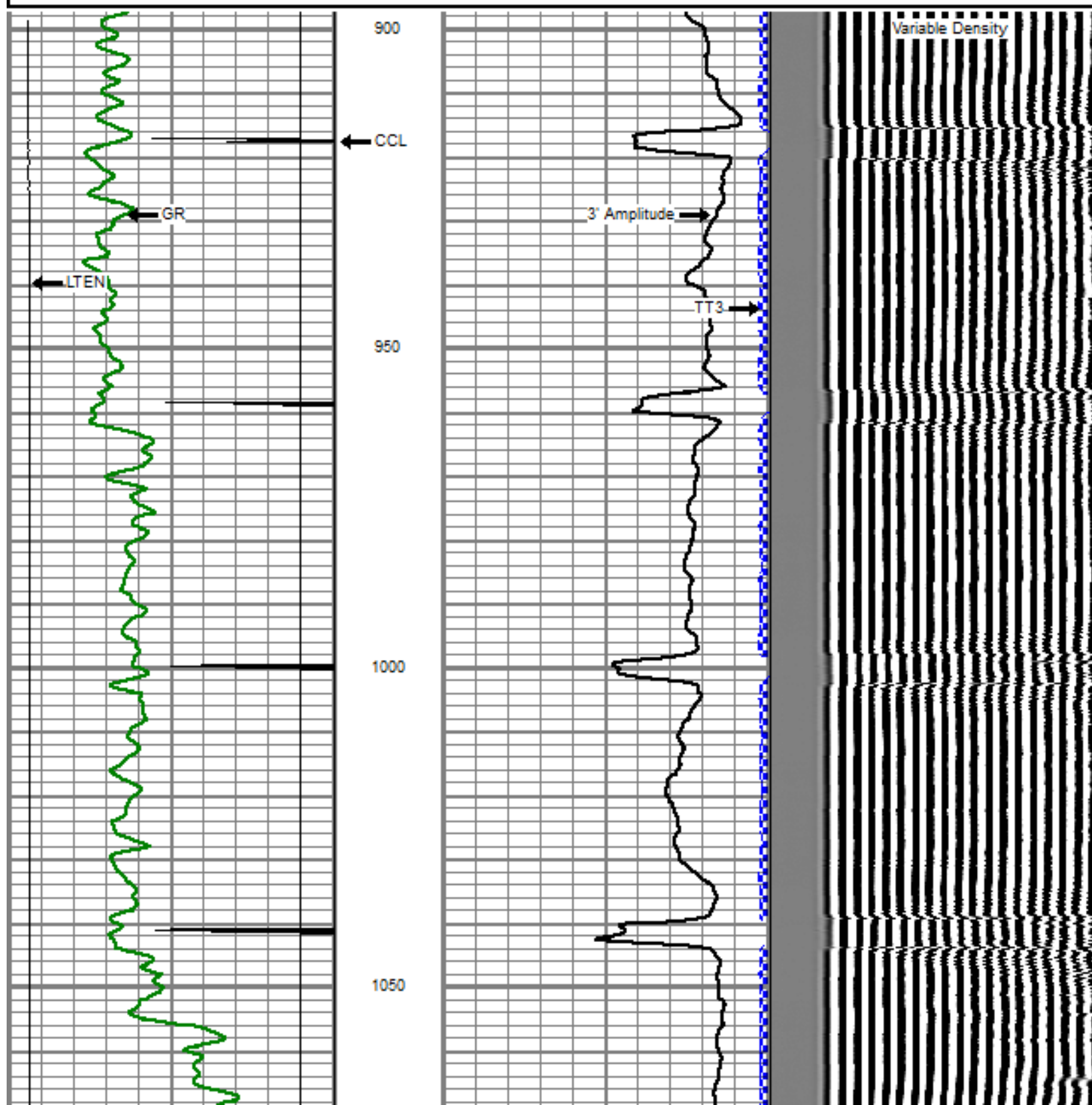
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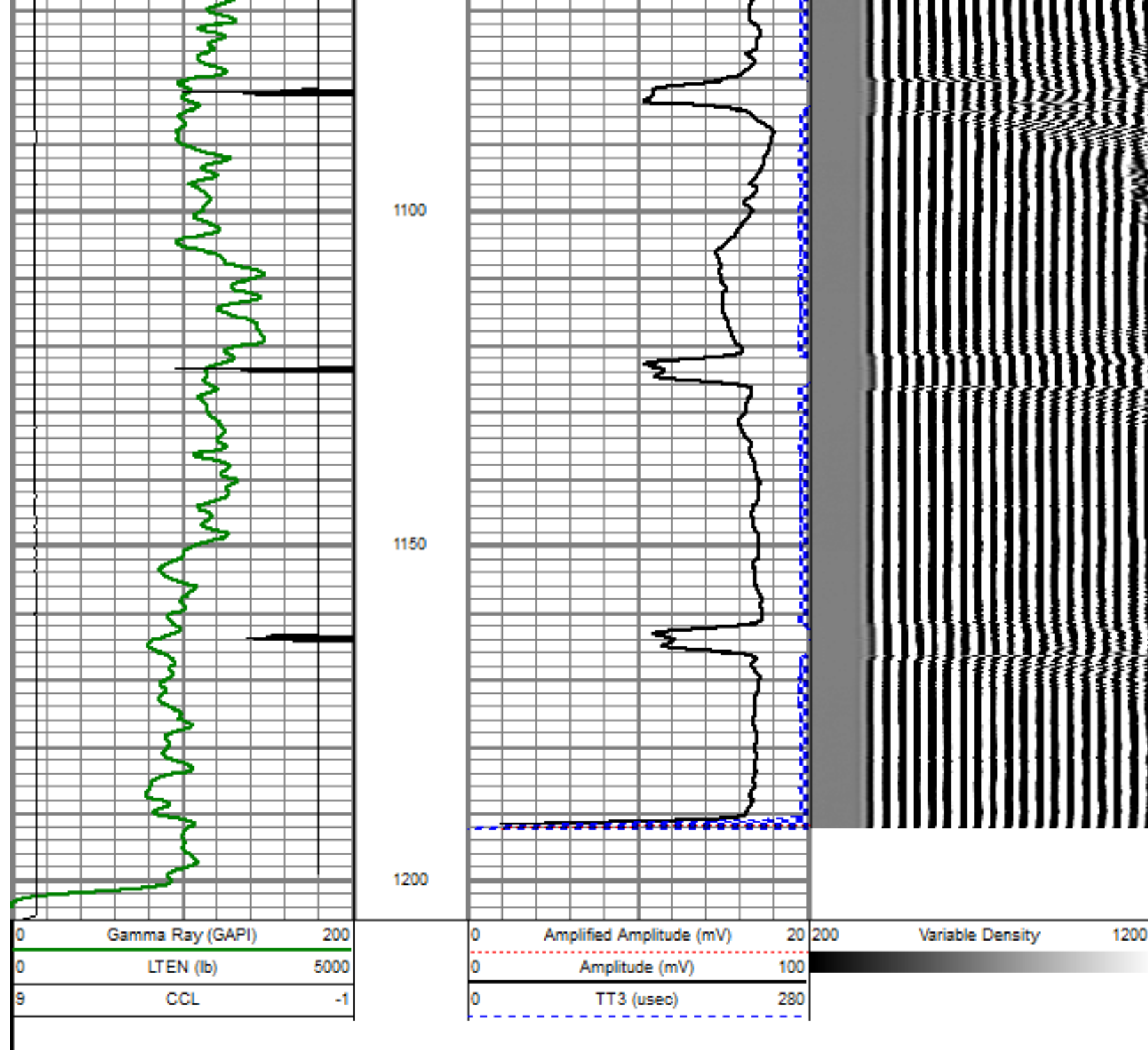
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Dataset Pathname: pass5.1
Presentation Format: dobl_prb
Dataset Creation: Thu Nov 10 12:33:59 2011 by Calc SCH 110722
Charted by: Depth in Feet scaled 1:240

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

Variable Density 1200

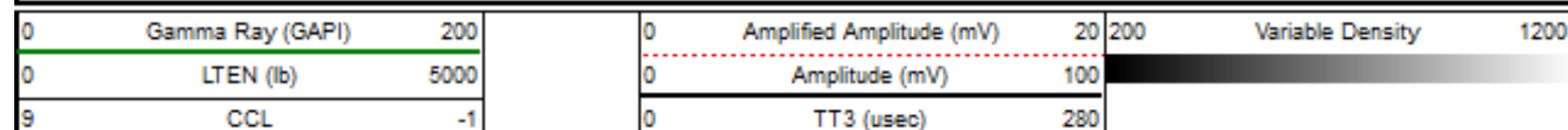


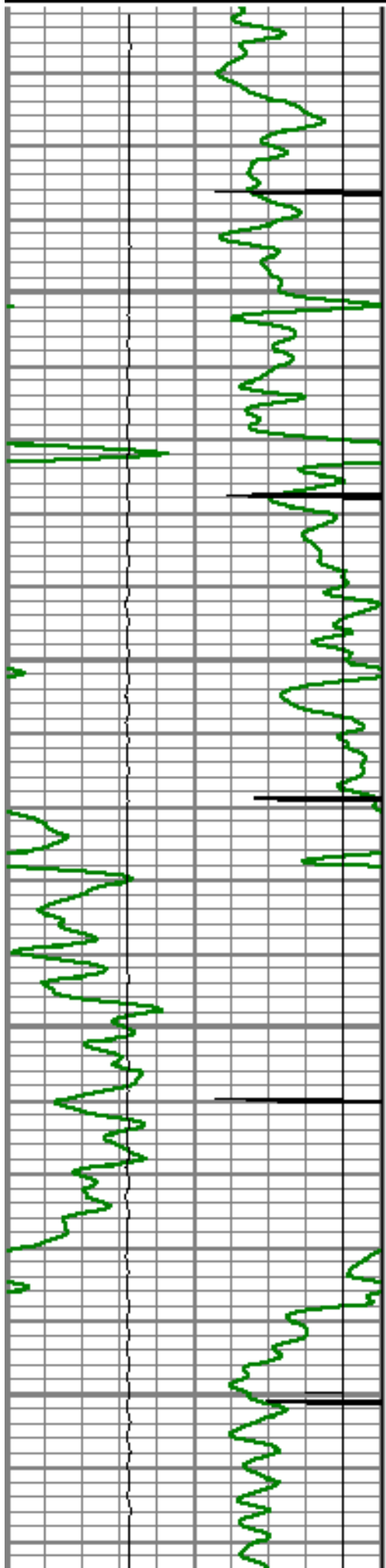


REPEAT PASS

5" = 100'

Database File: crandell 2-8-26.db
 Dataset Pathname: pass2
 Presentation Format: dobl_prb
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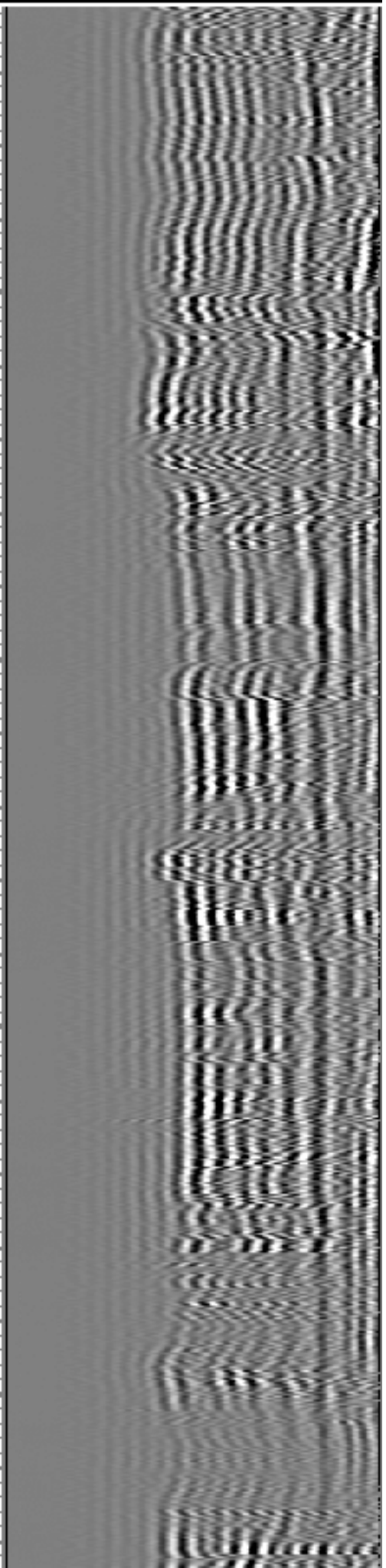
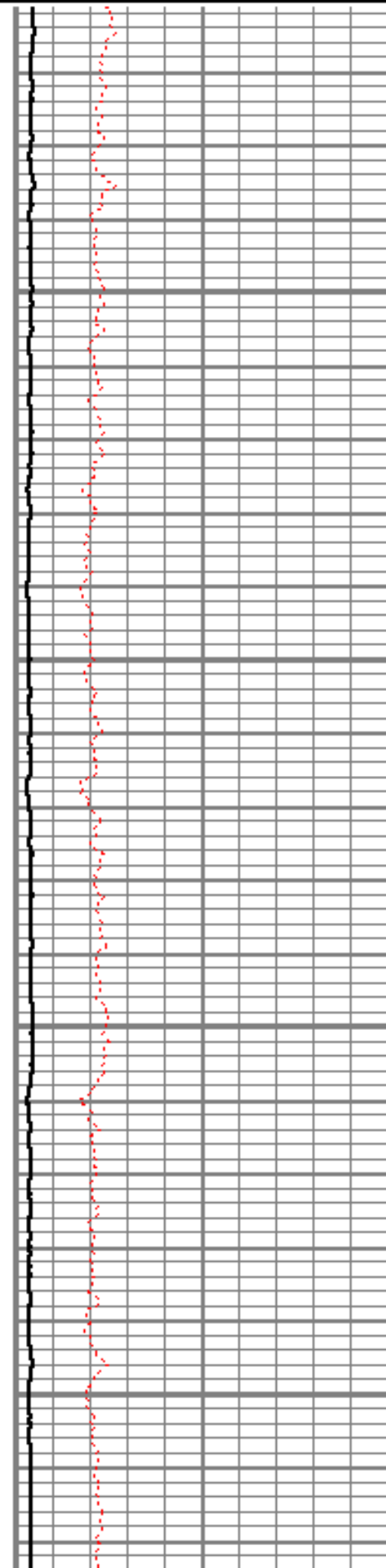


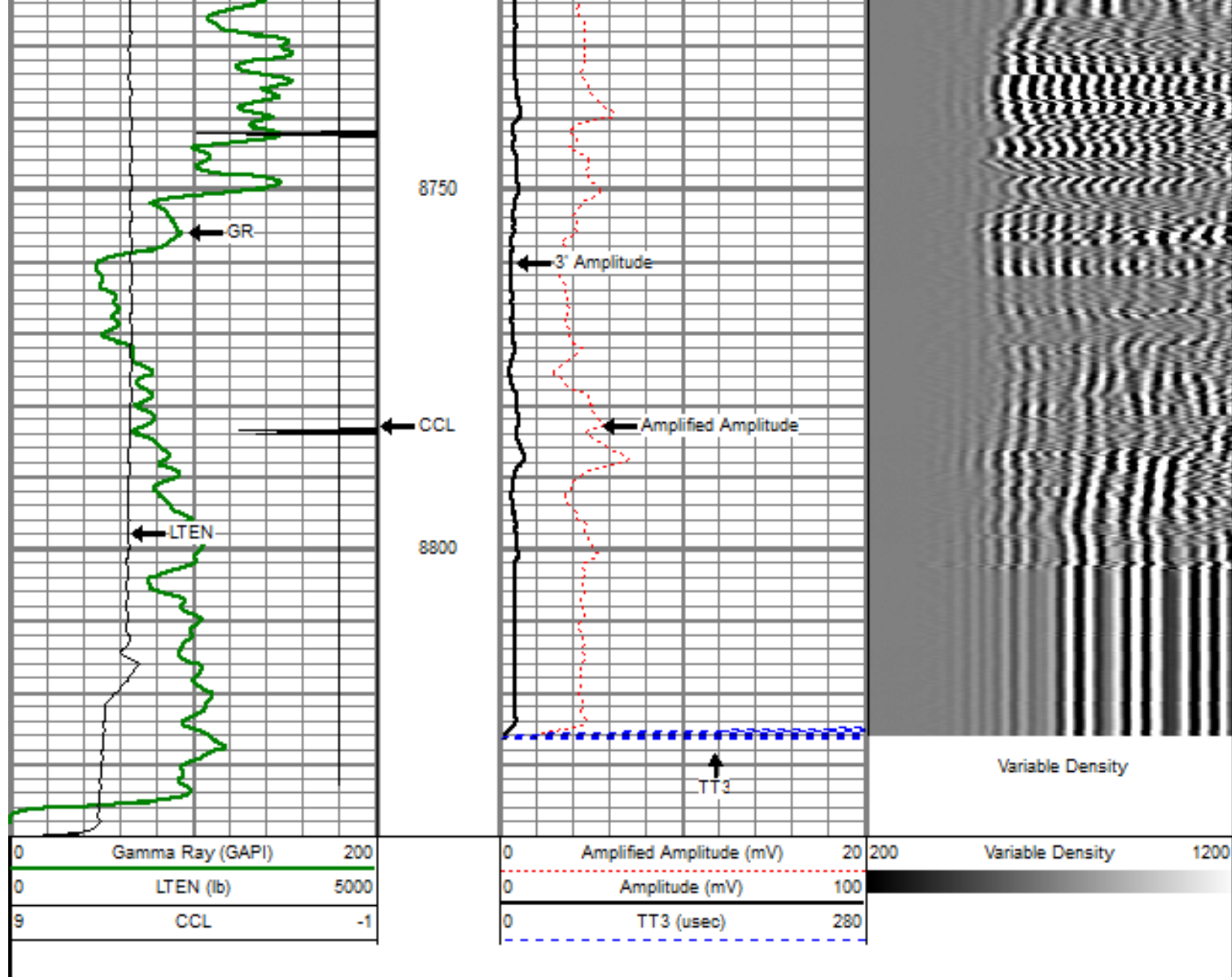
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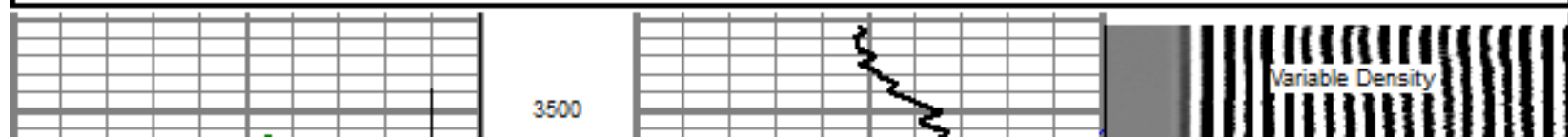
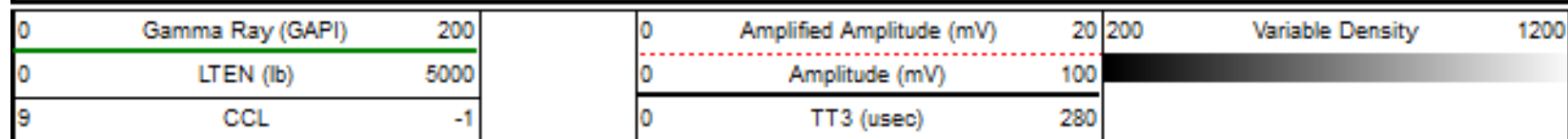


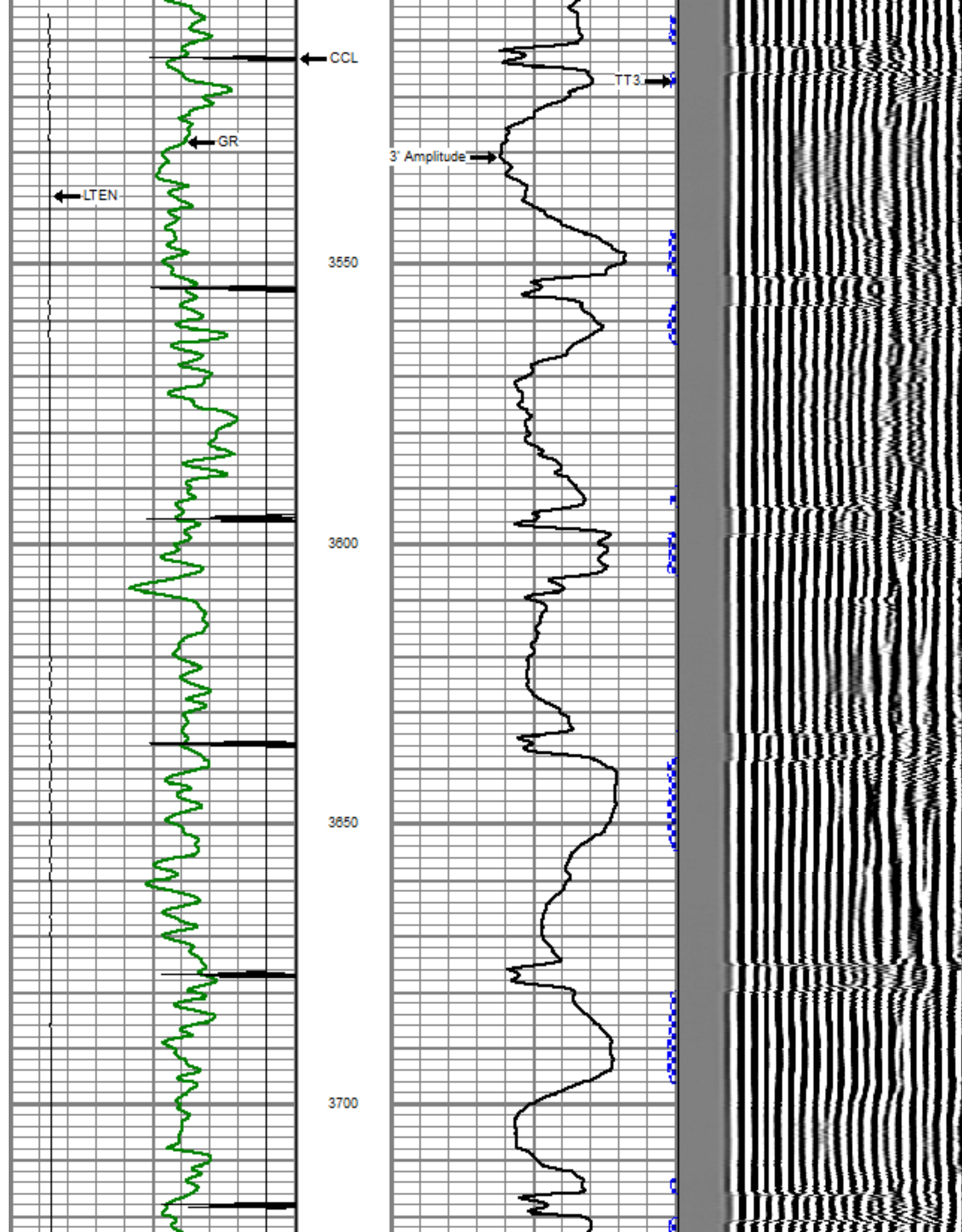


MAIN PASS

5" = 100'

Database File: crandell 2-8-26.db
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 Presentation Format: dobl_prb
 Dataset Creation: Thu Nov 10 12:21:36 2011
 Charted by: Depth in Feet scaled 1:240





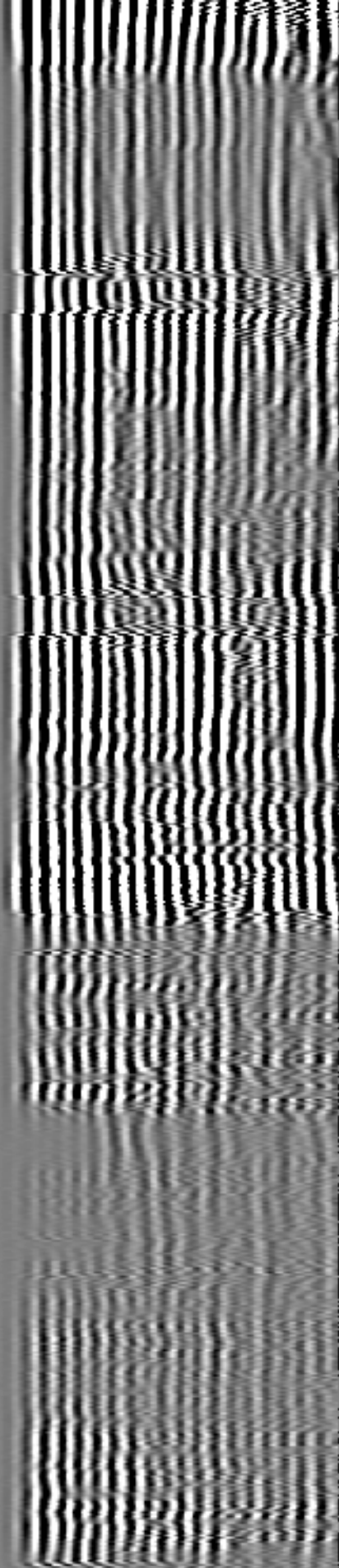
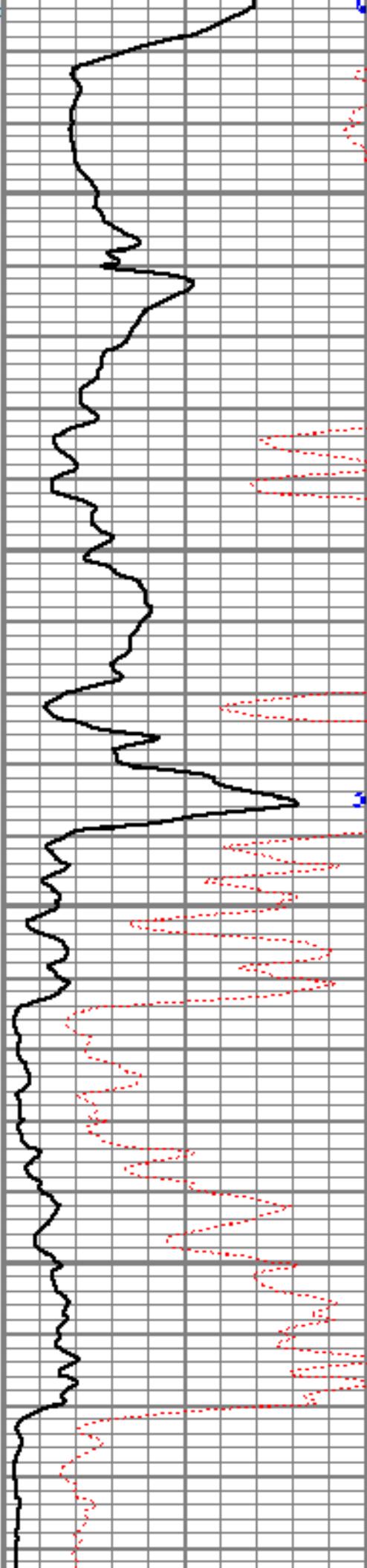
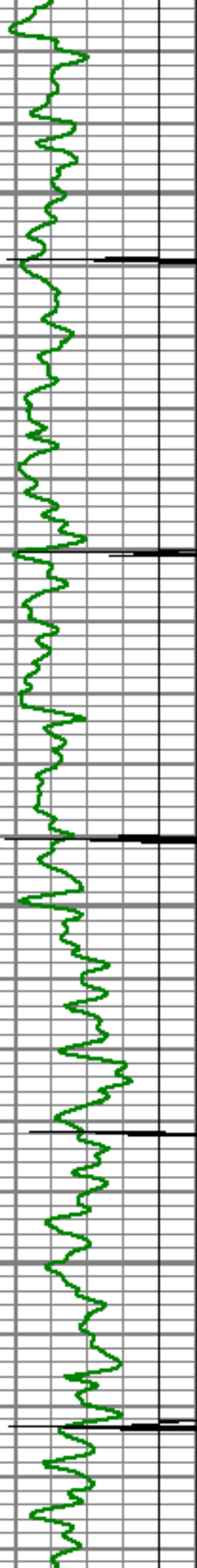
Top of Cement

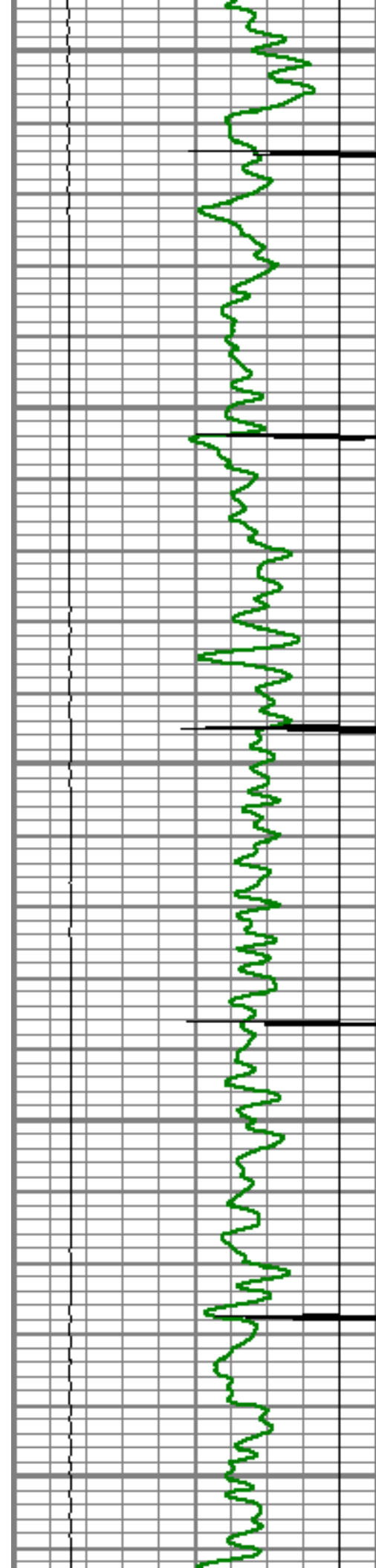
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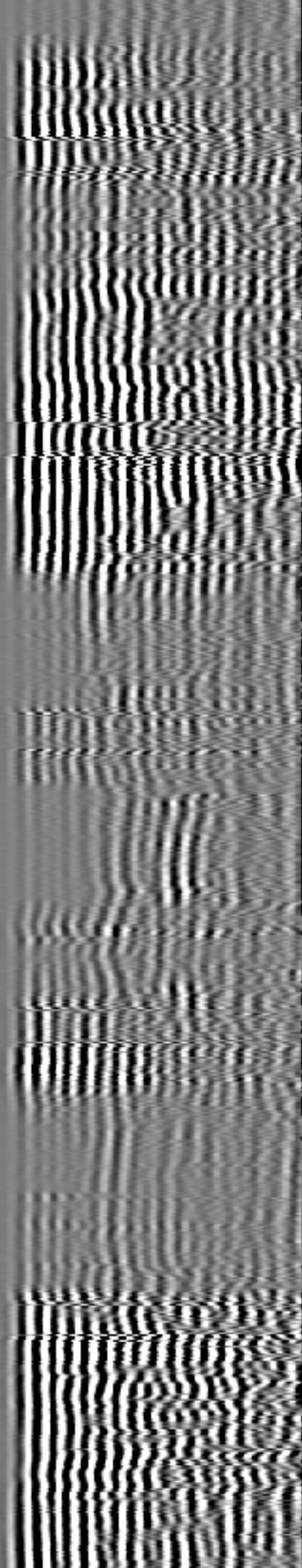
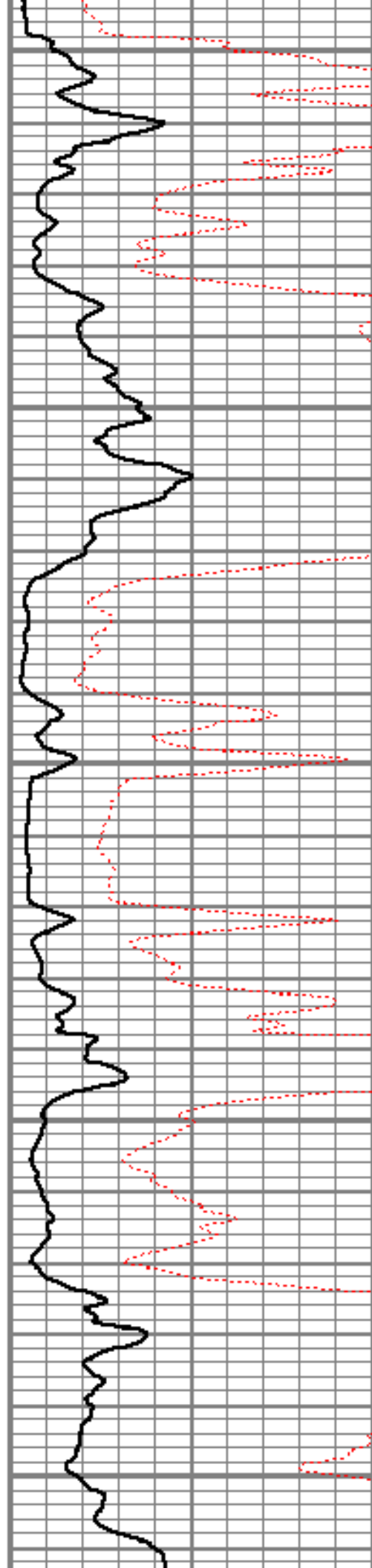
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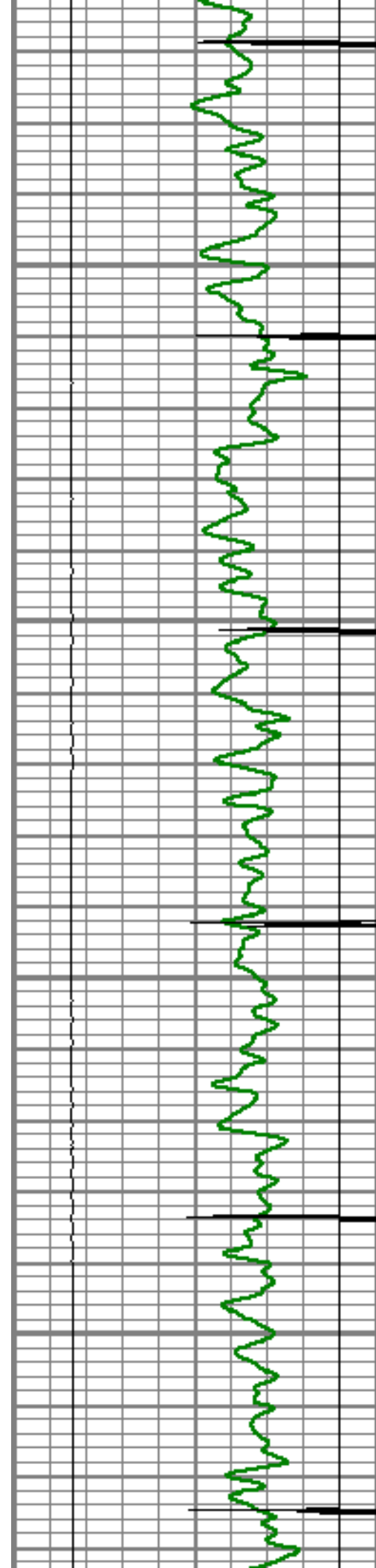
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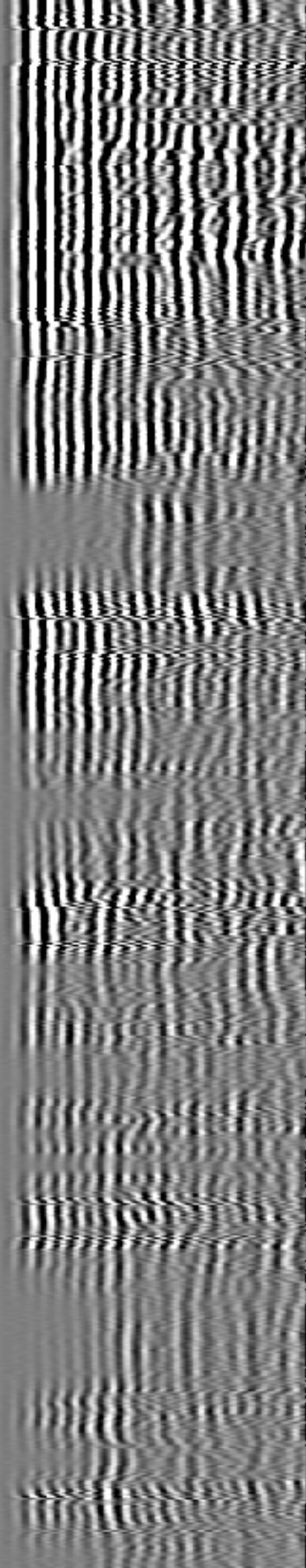
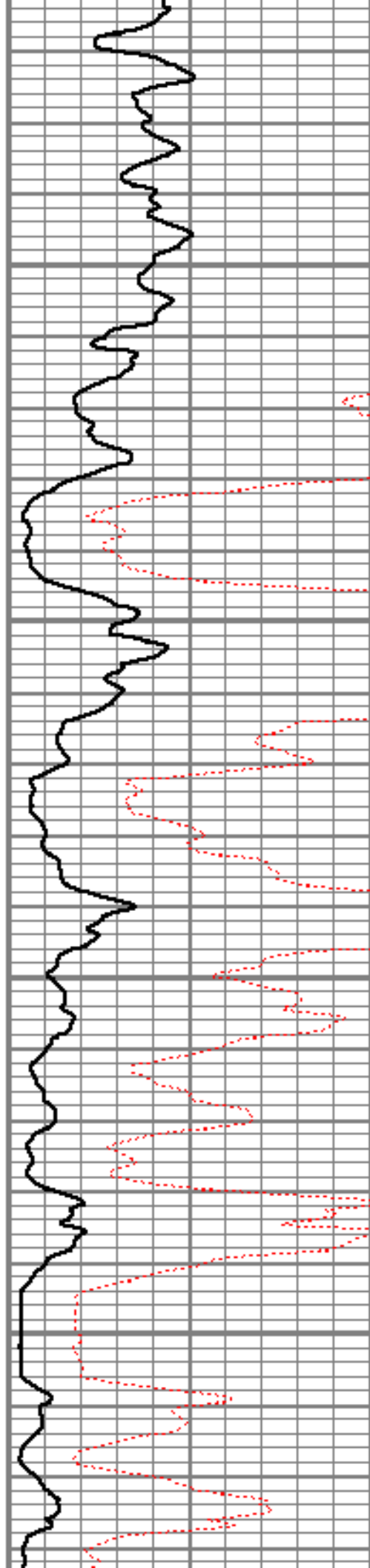


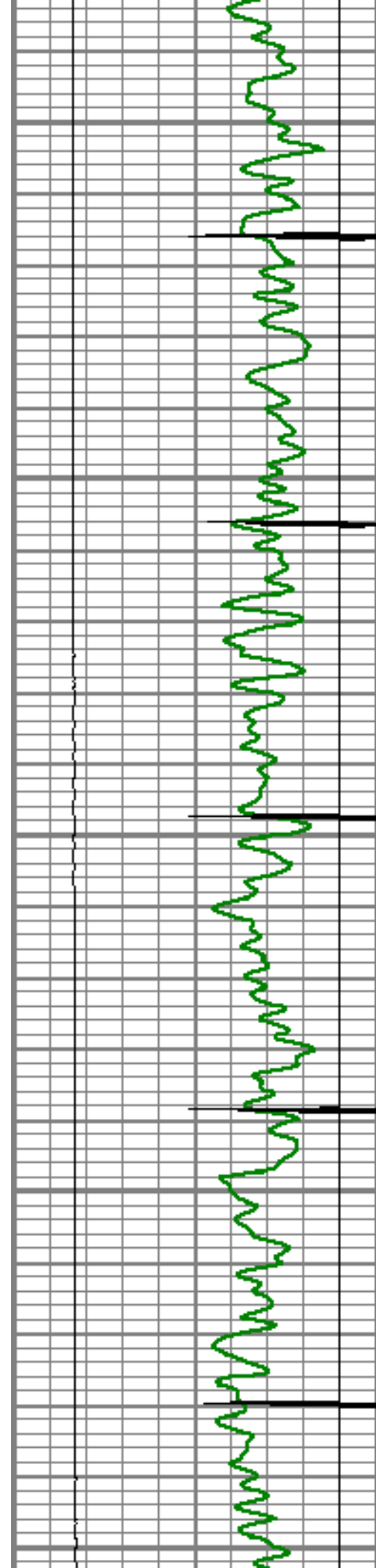
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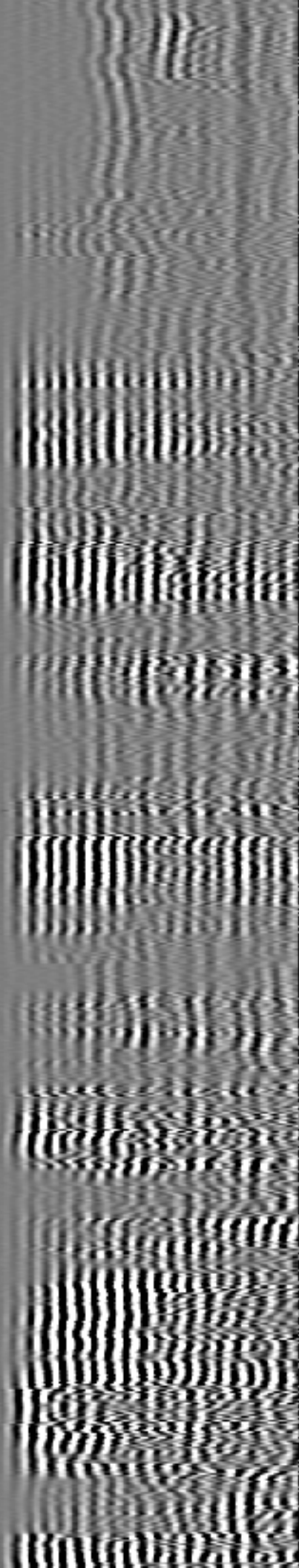
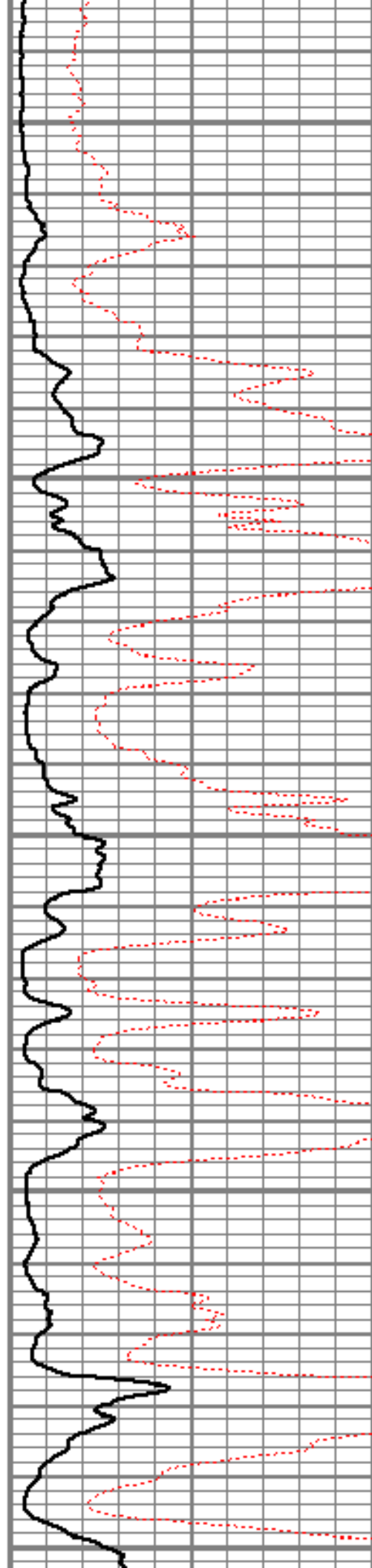
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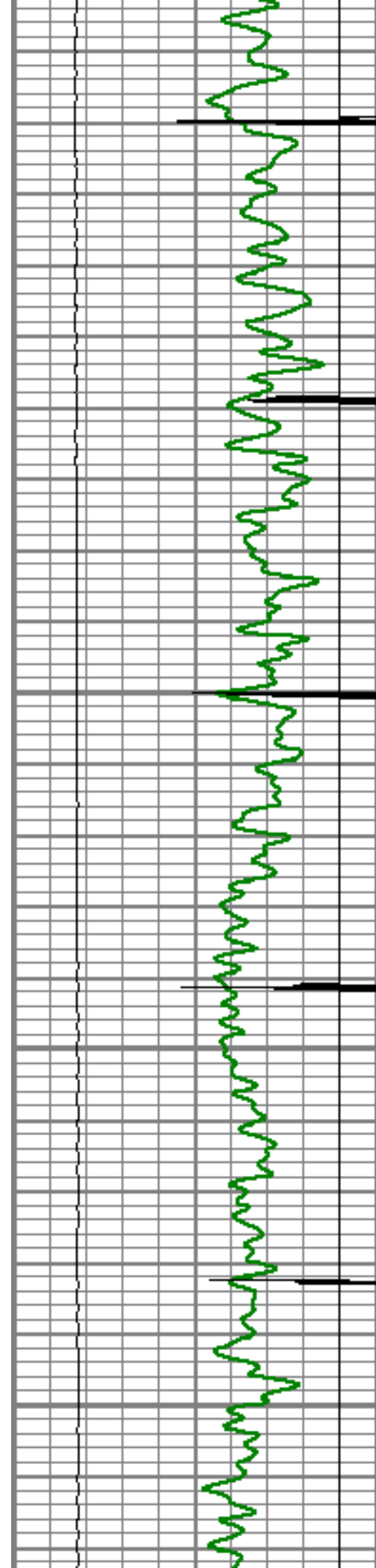
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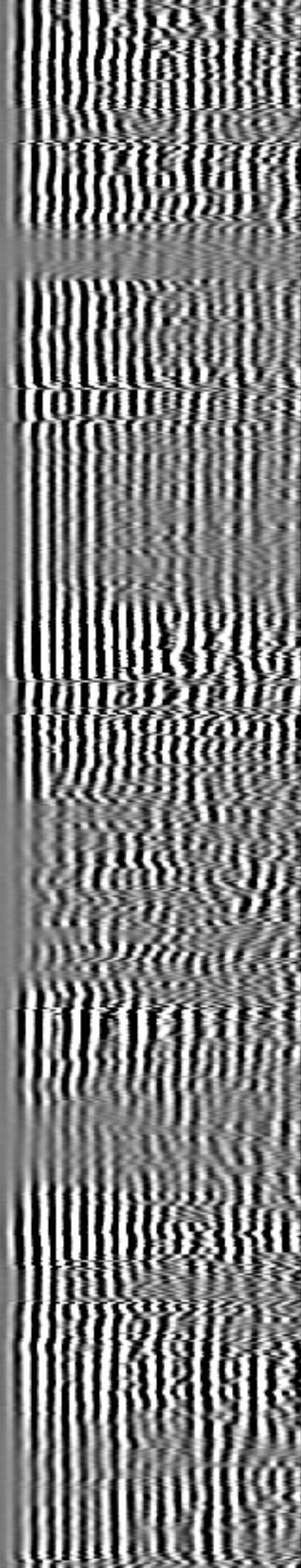
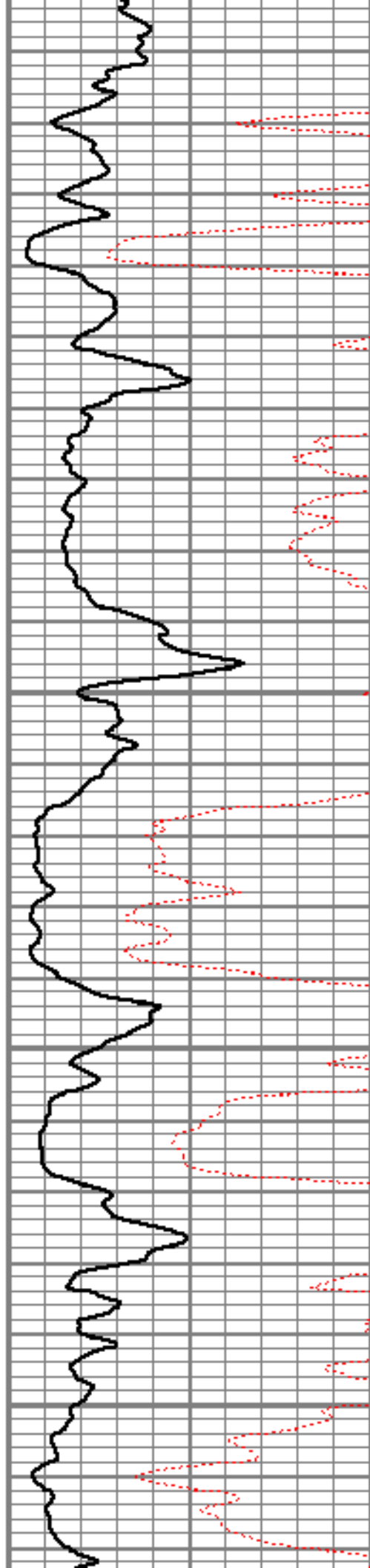


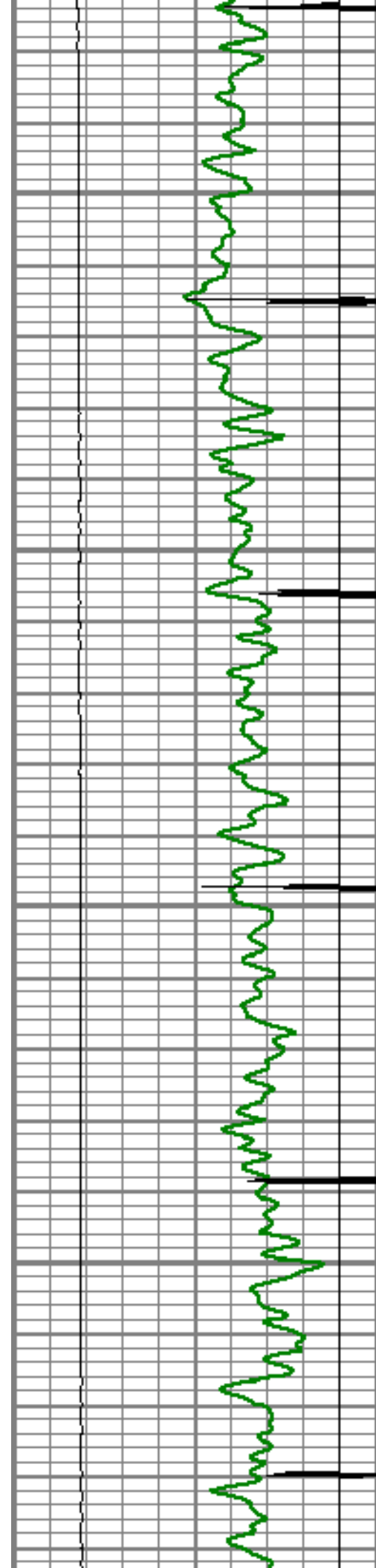
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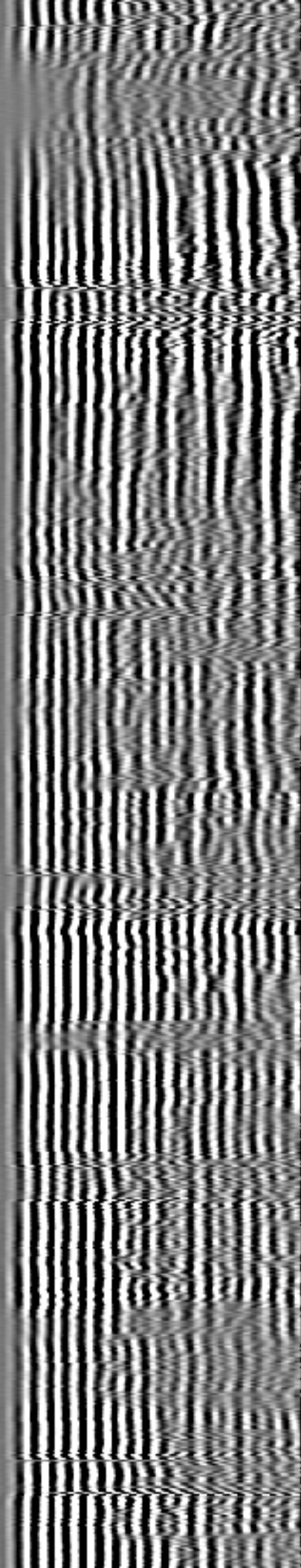
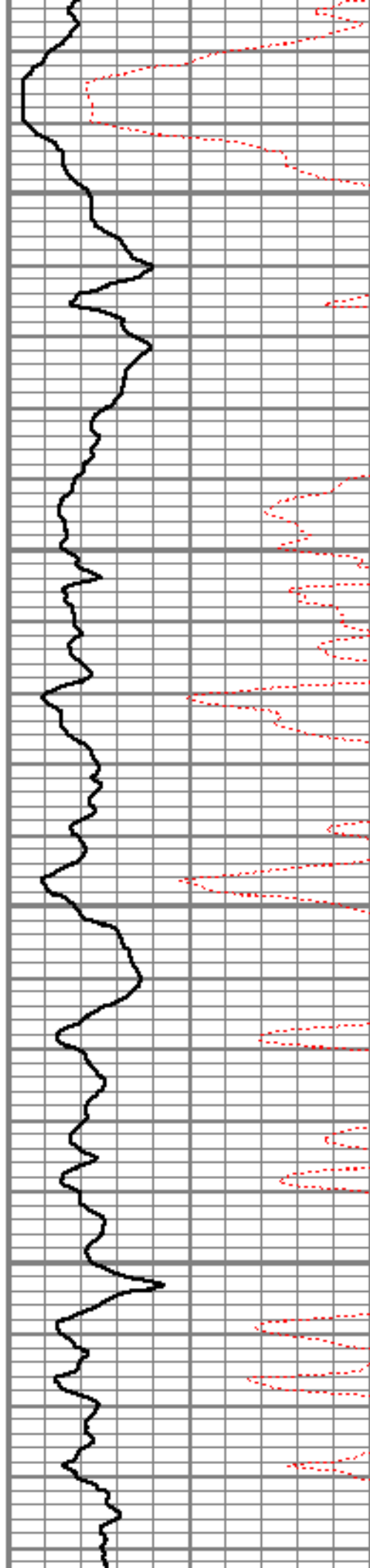


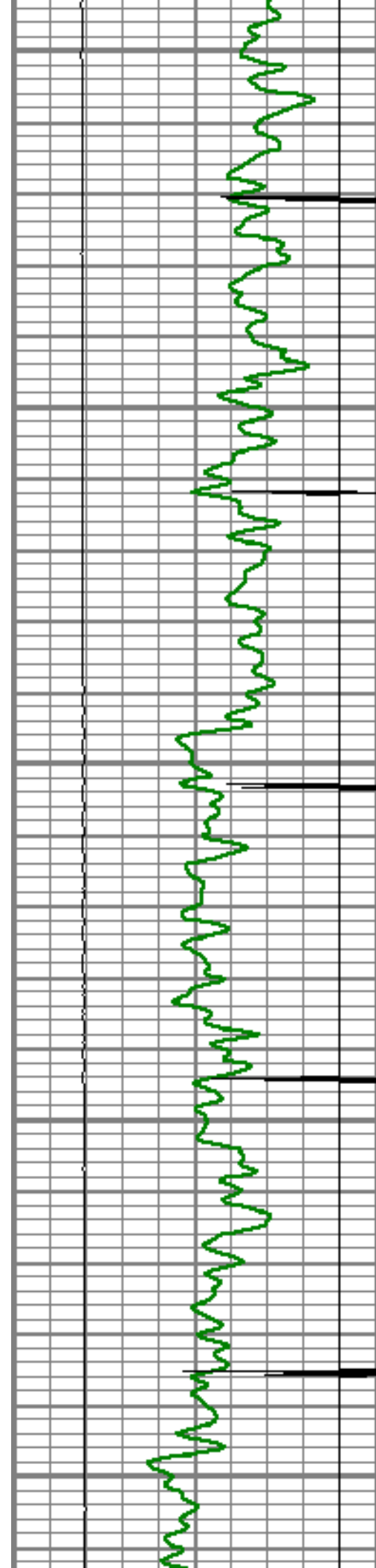
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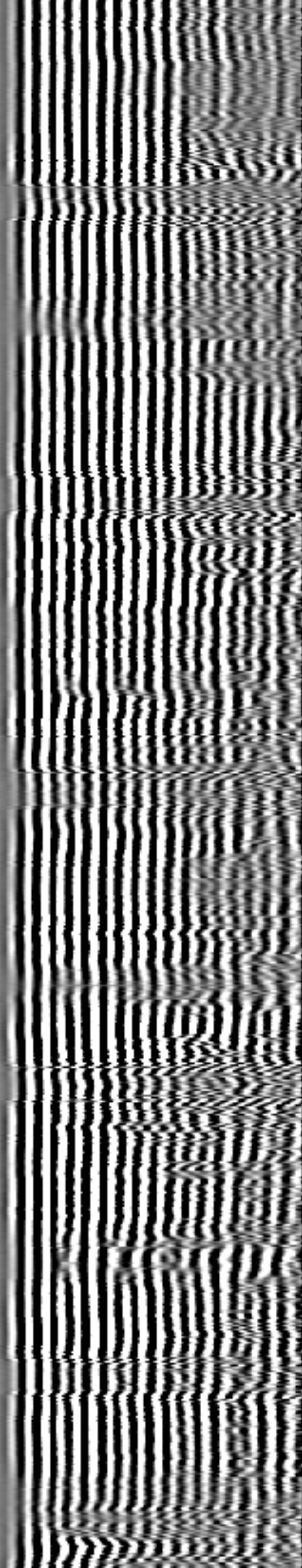
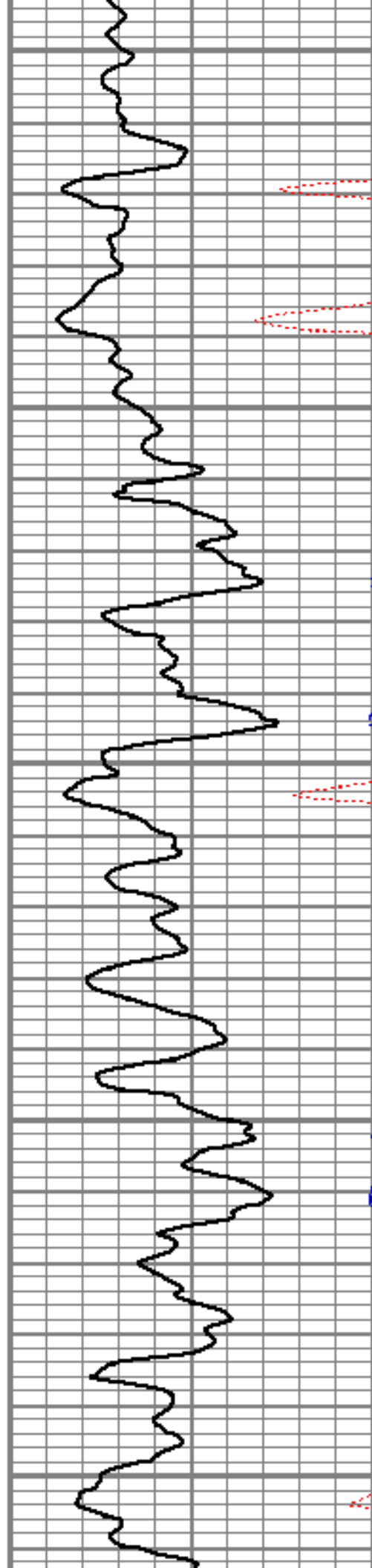
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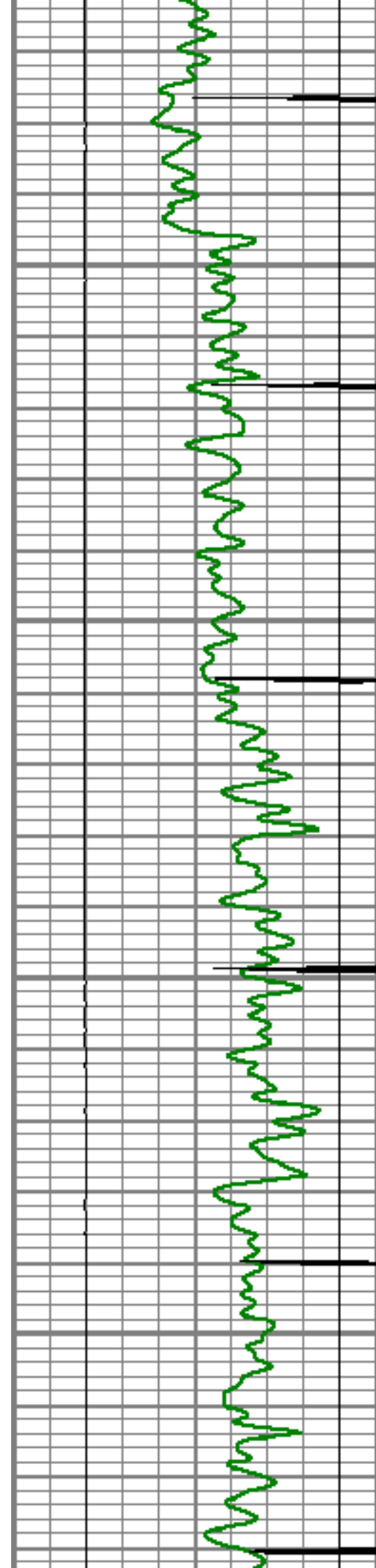
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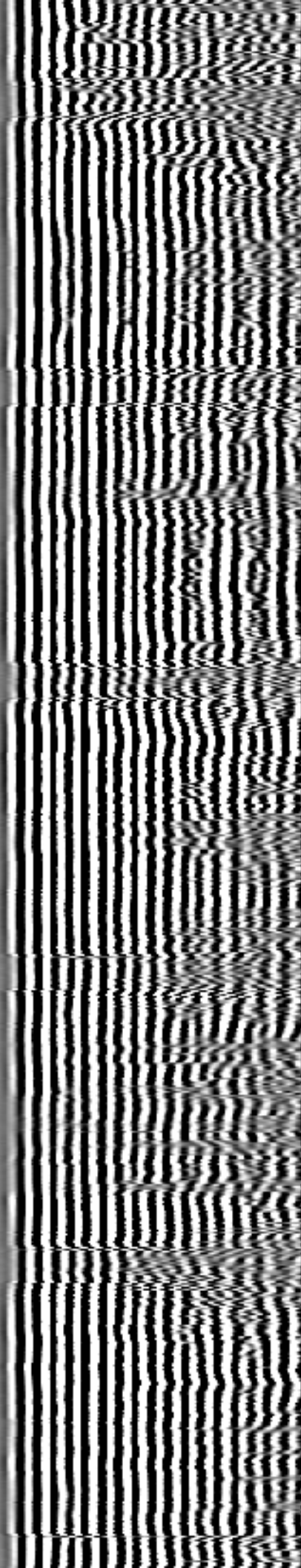
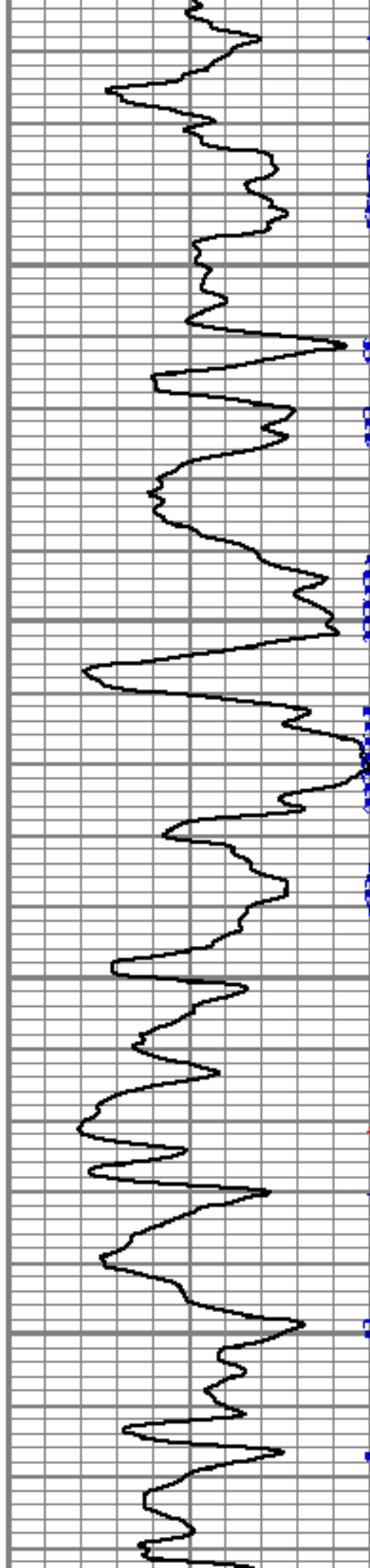


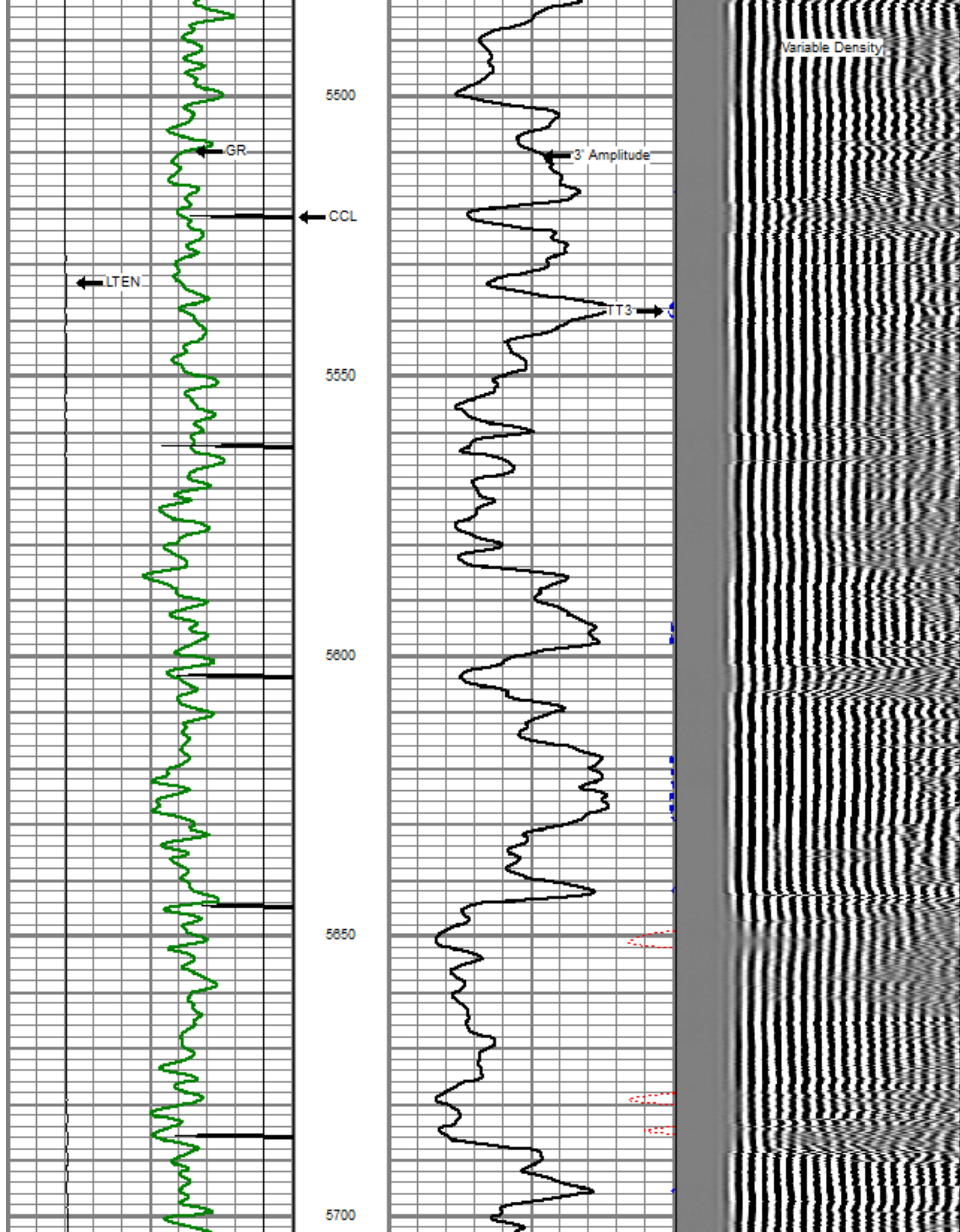
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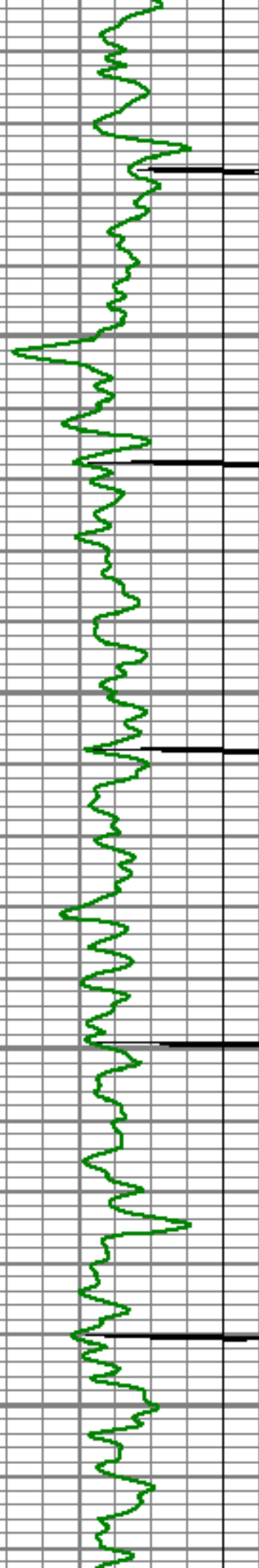
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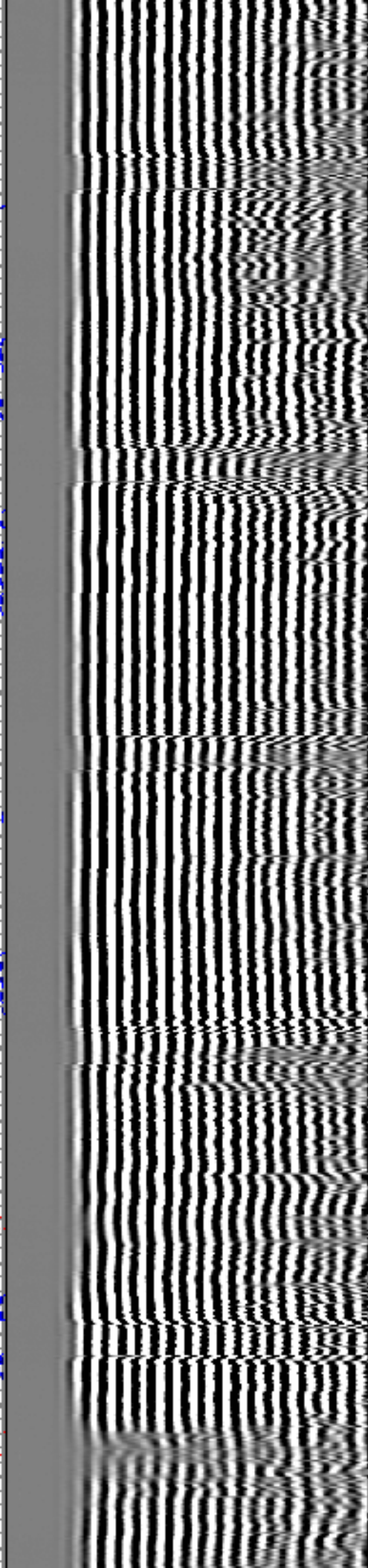
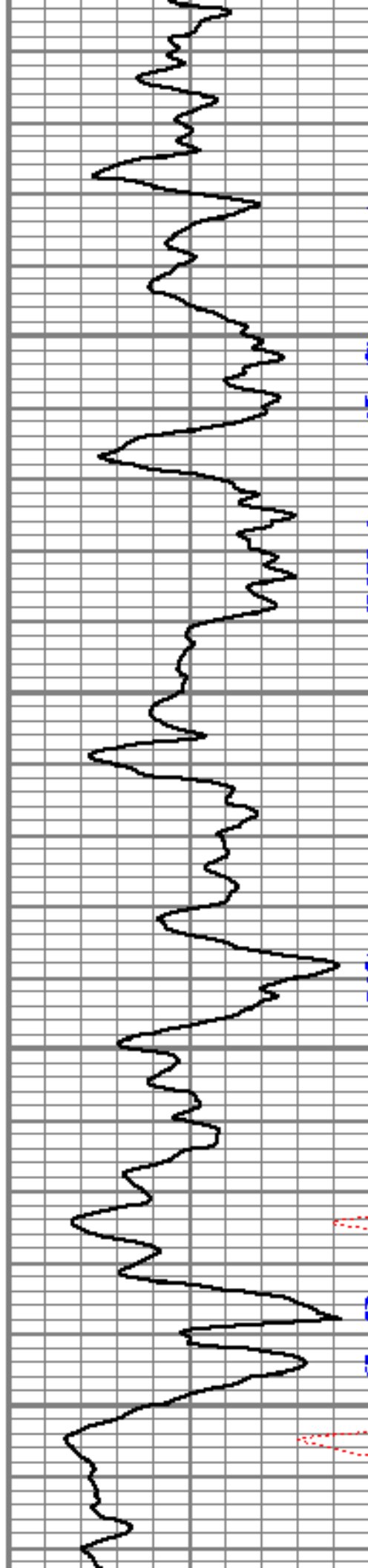


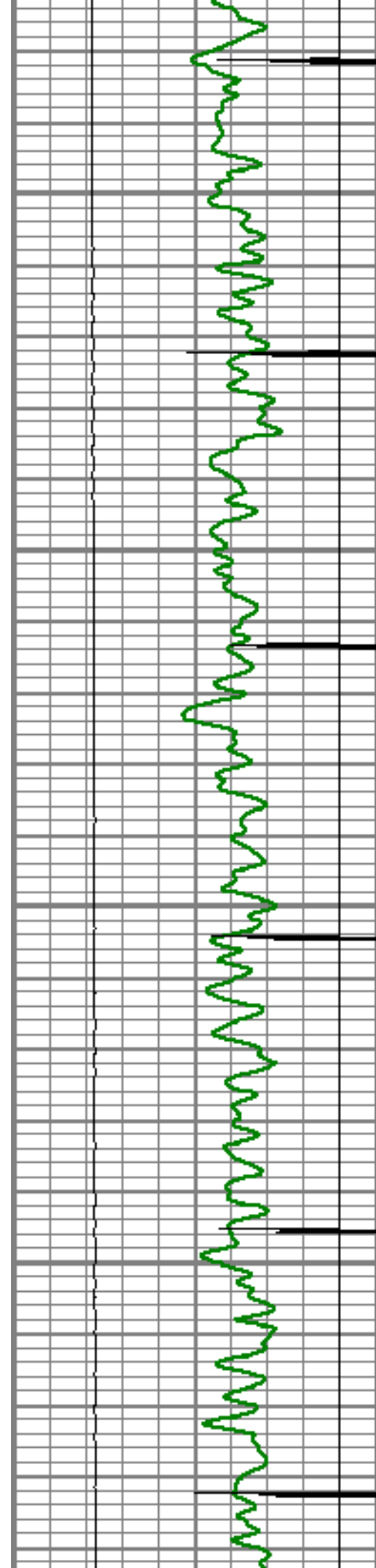
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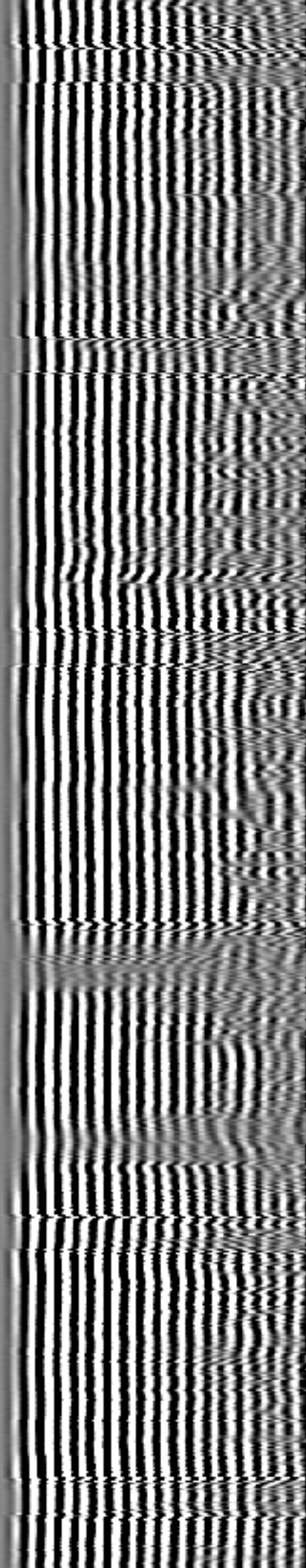
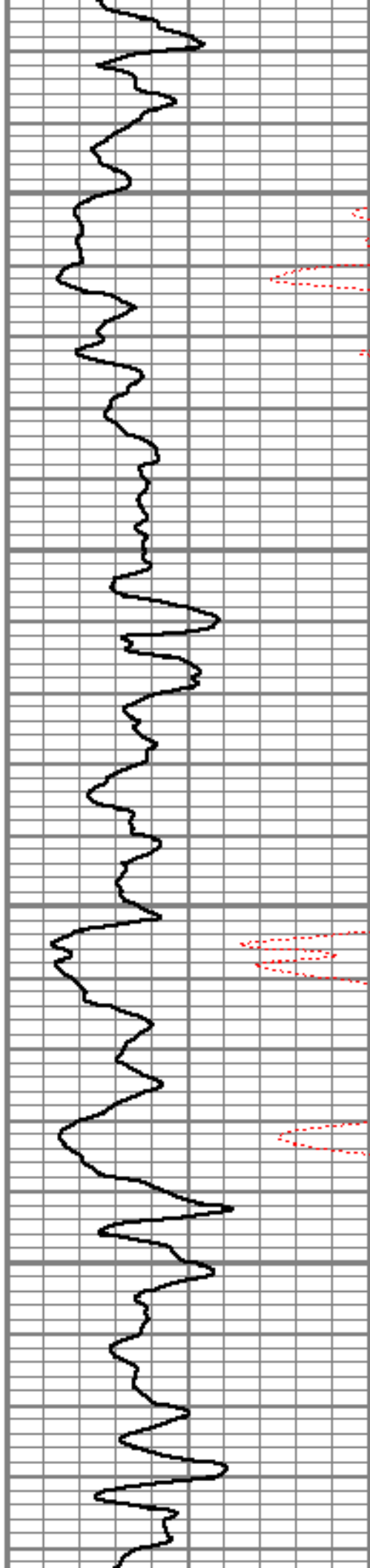


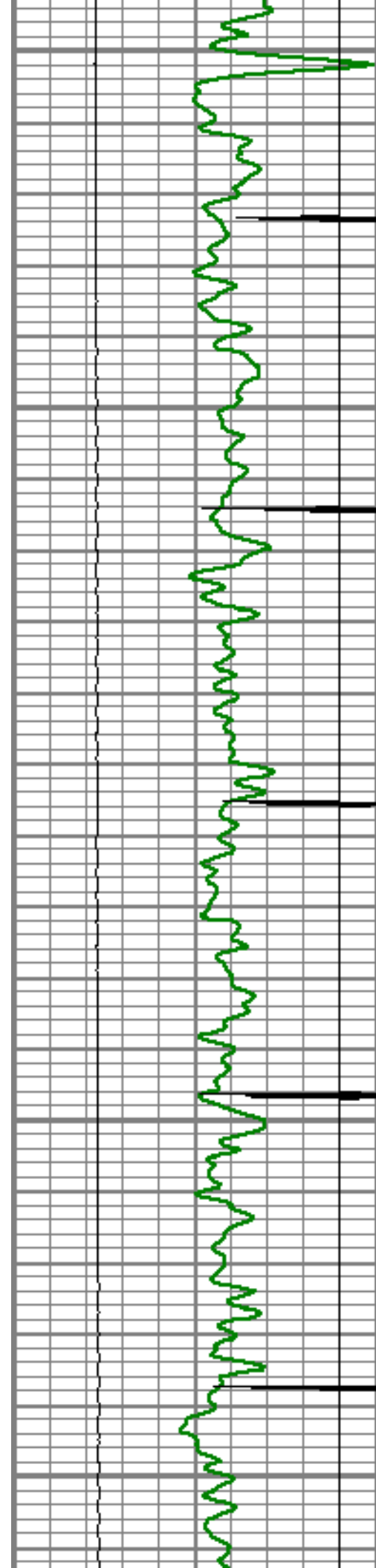
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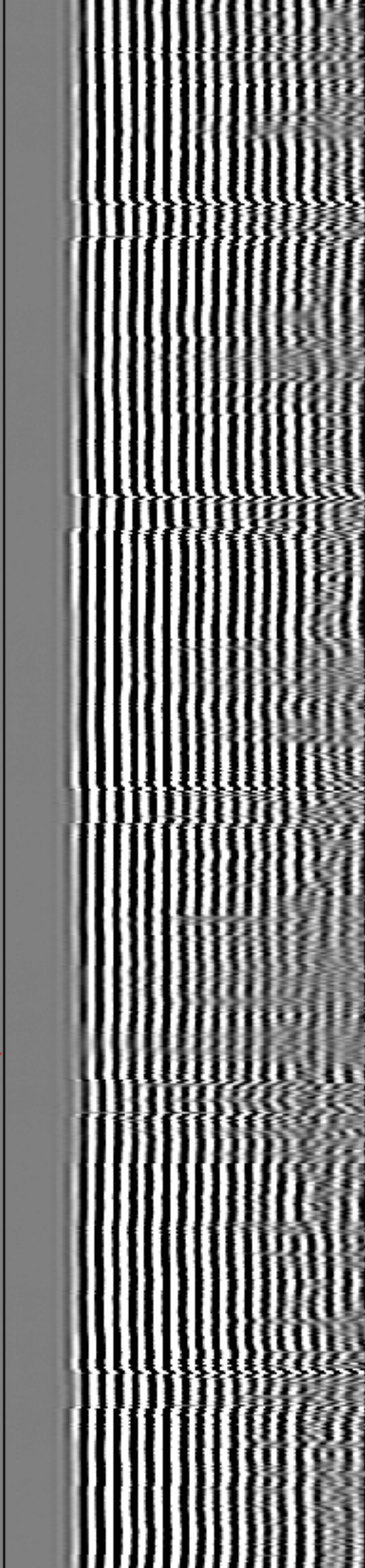
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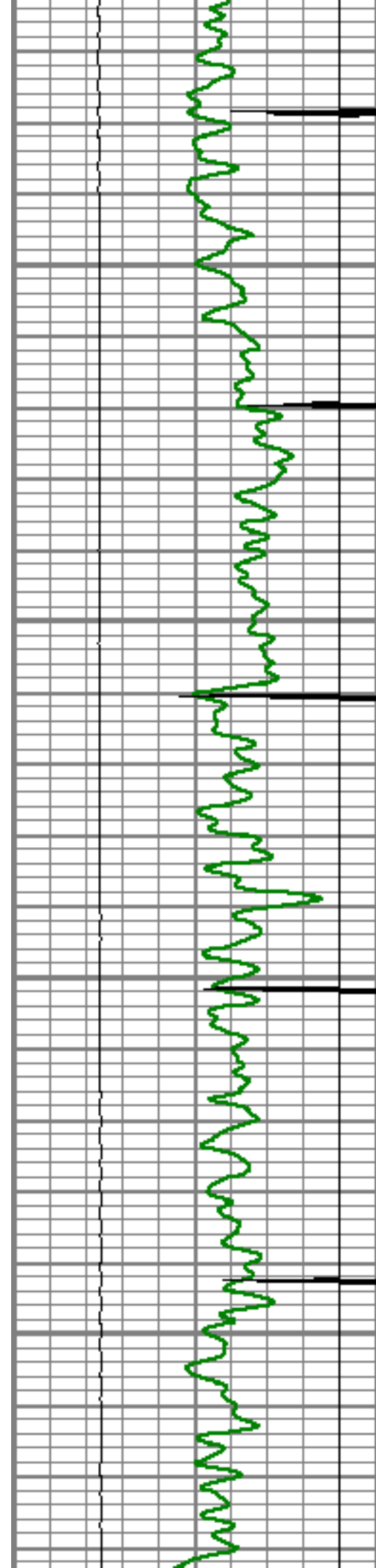
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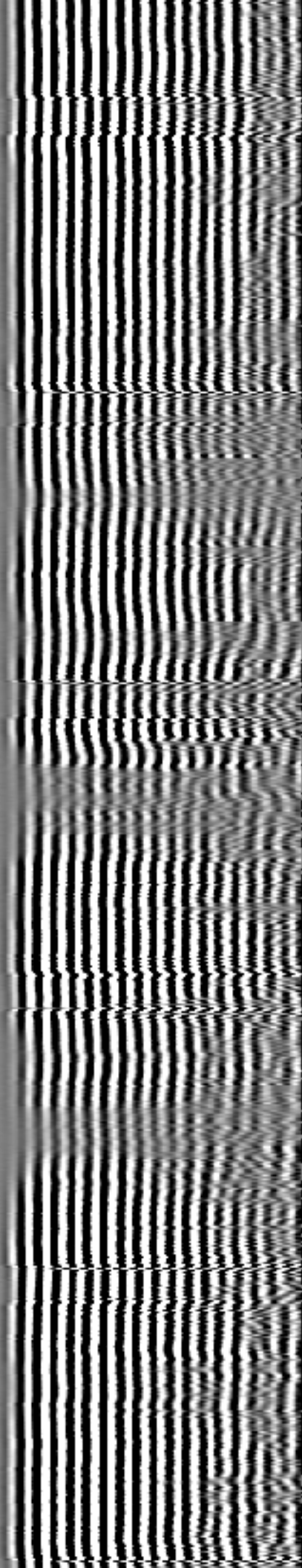
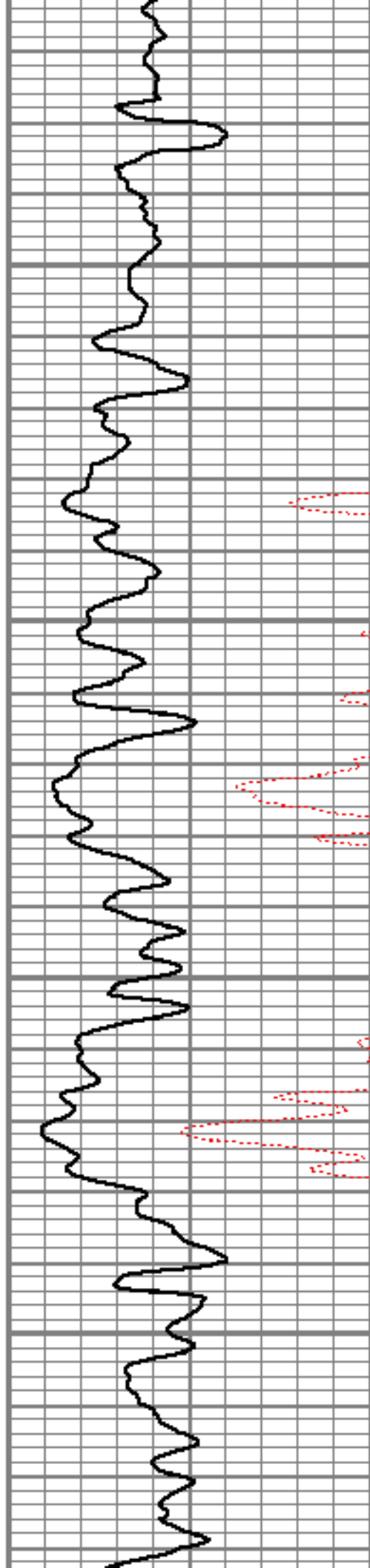


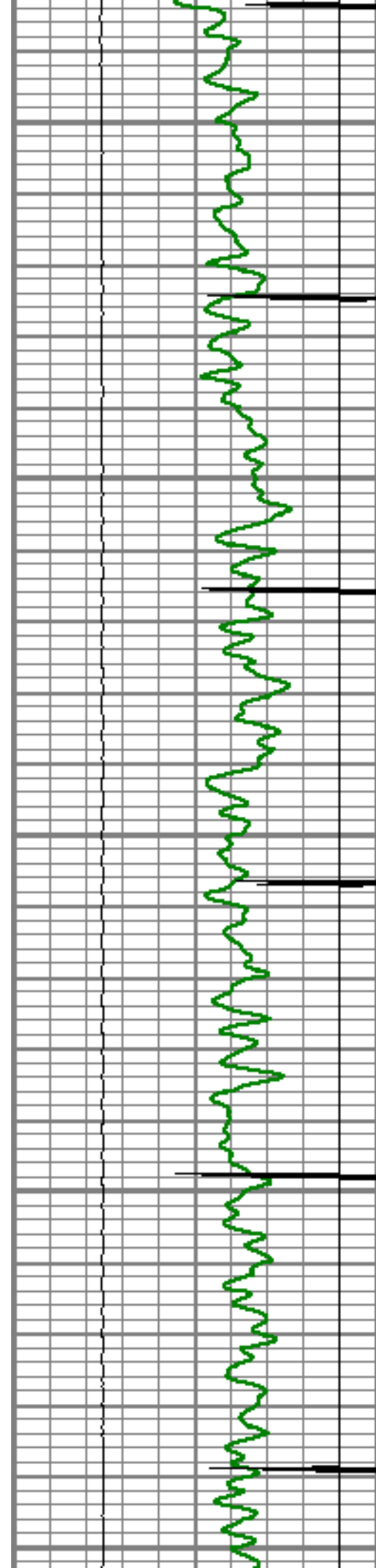
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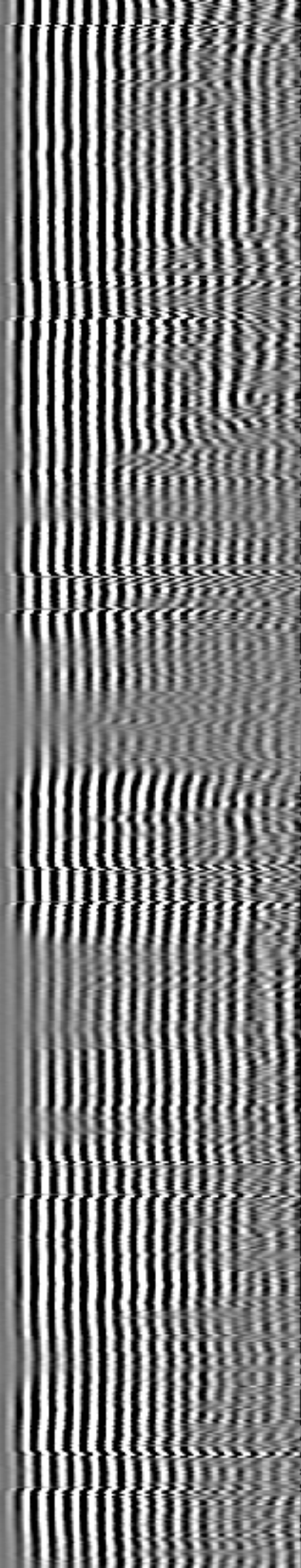
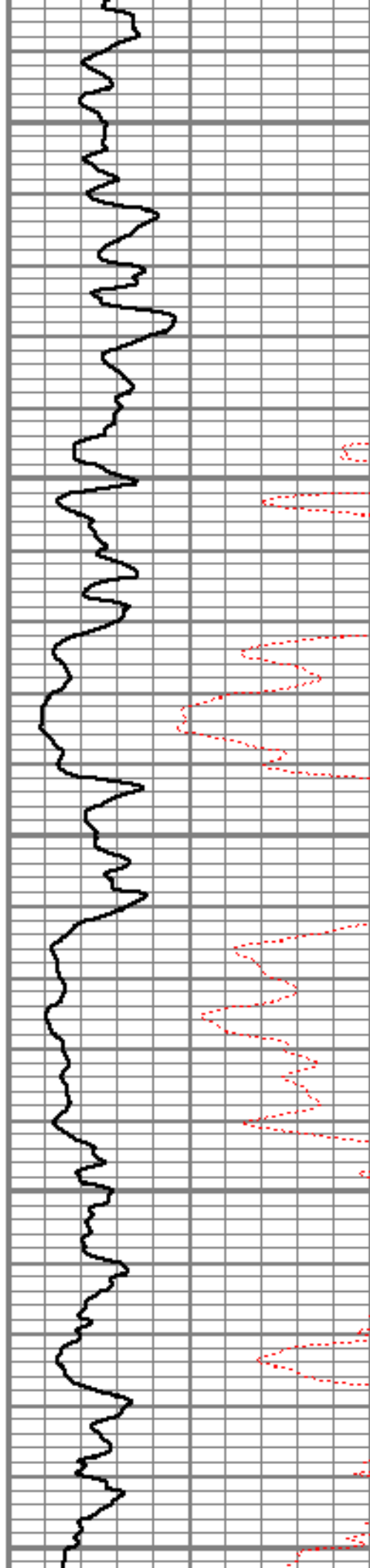
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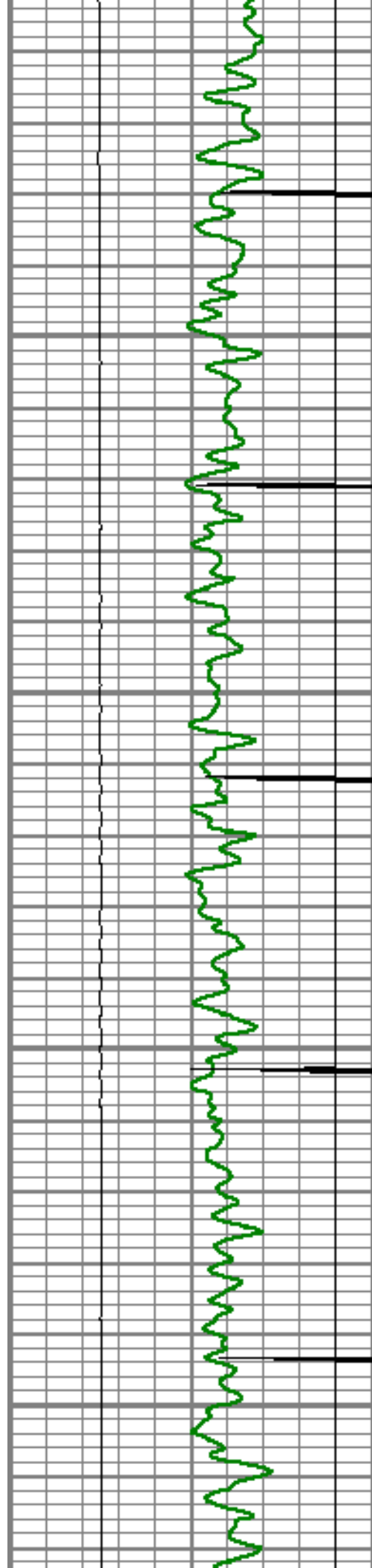
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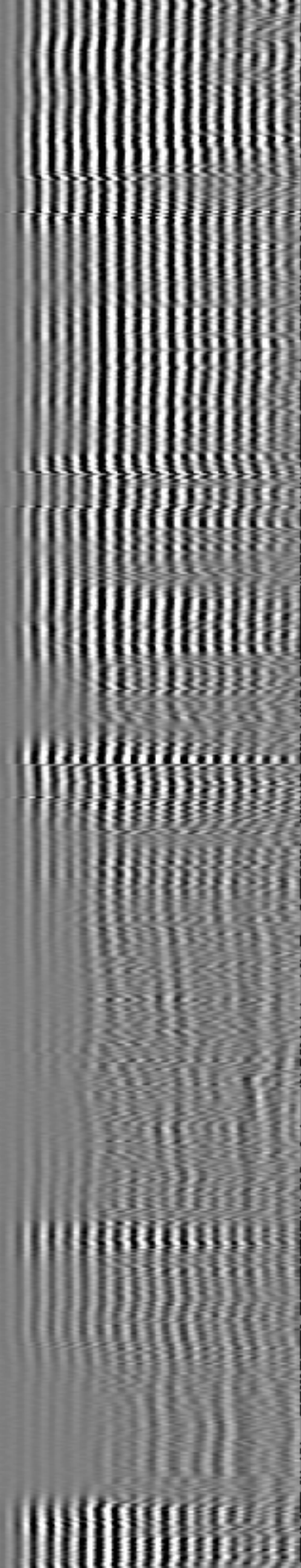
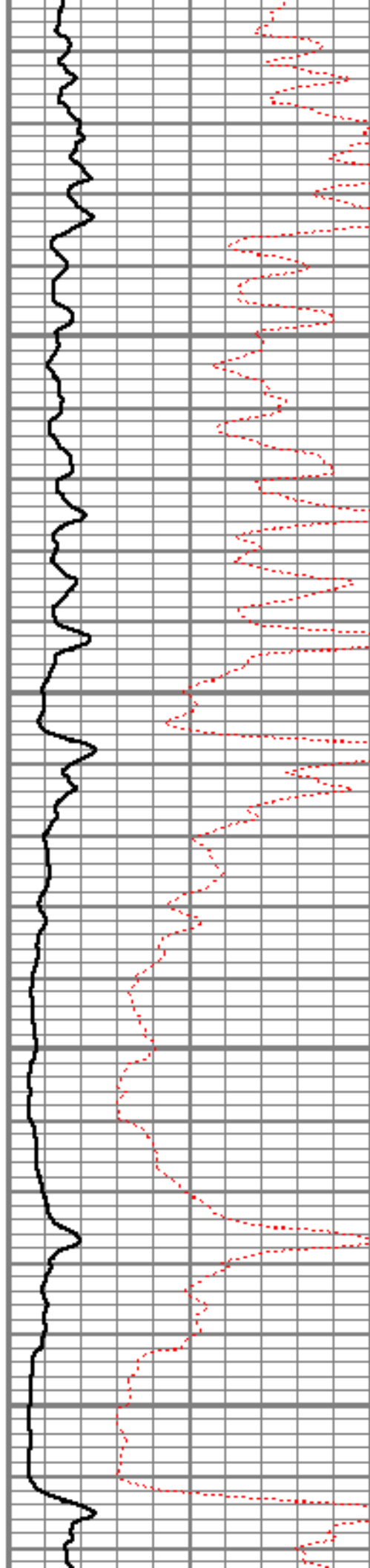


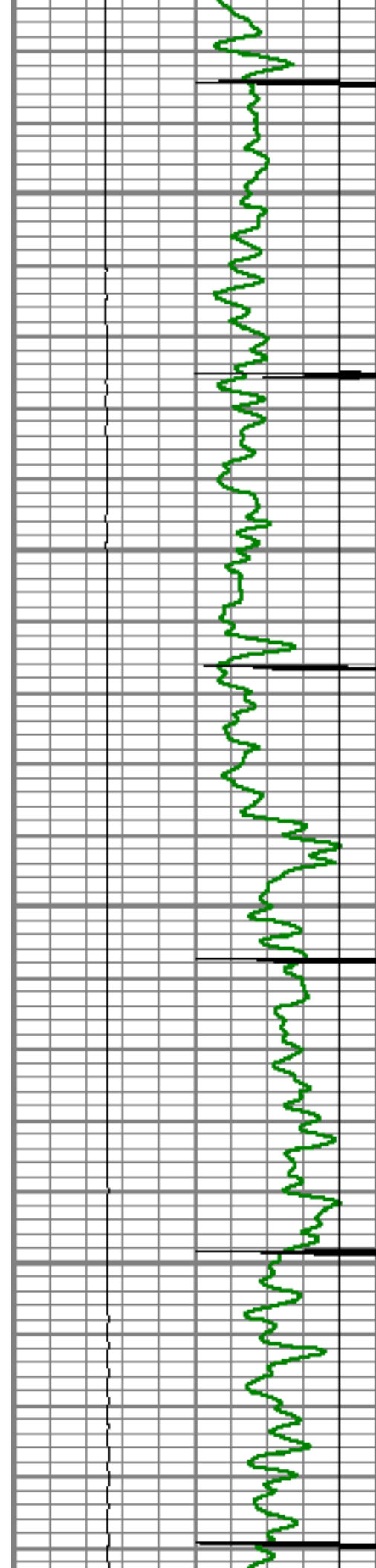
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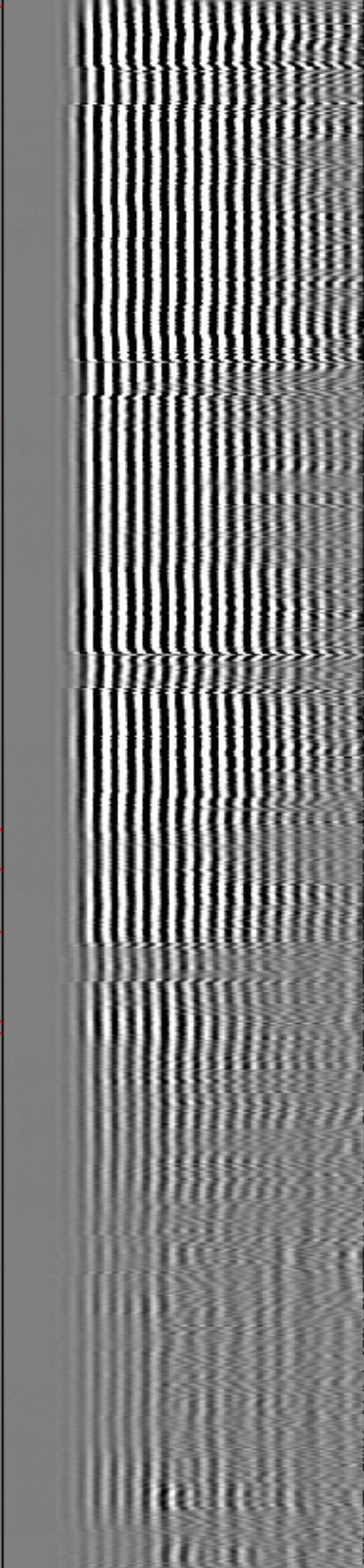
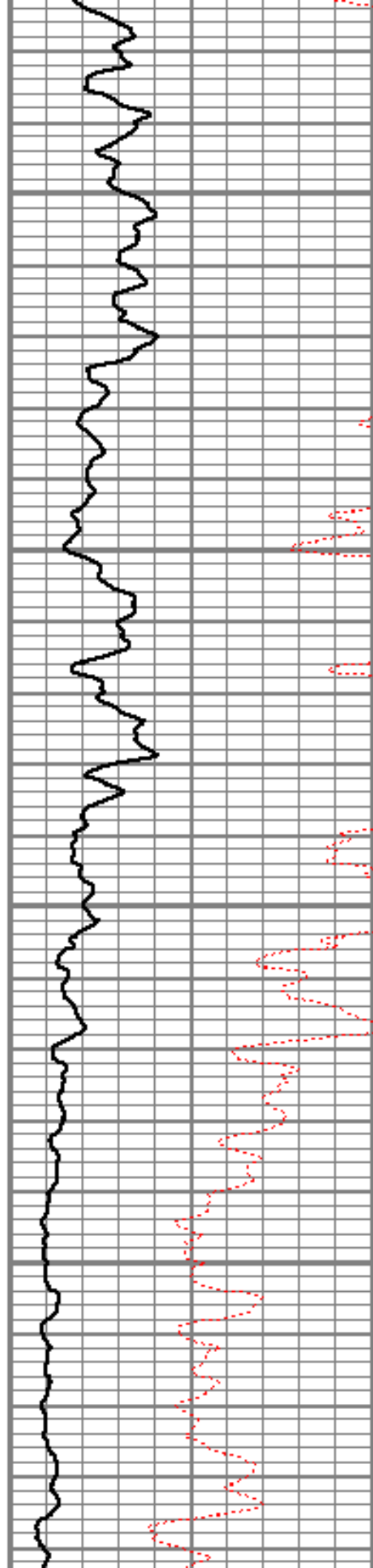


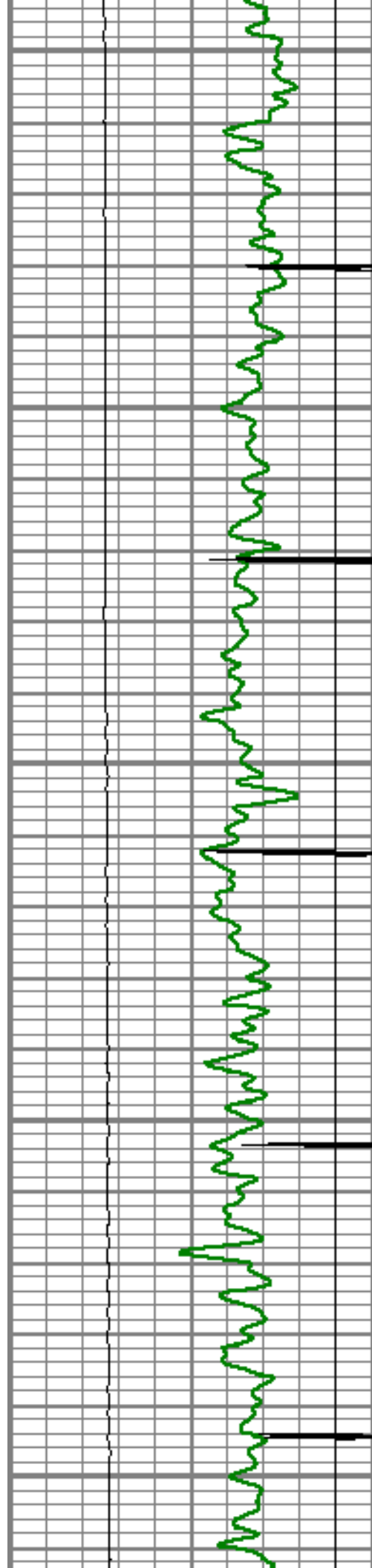
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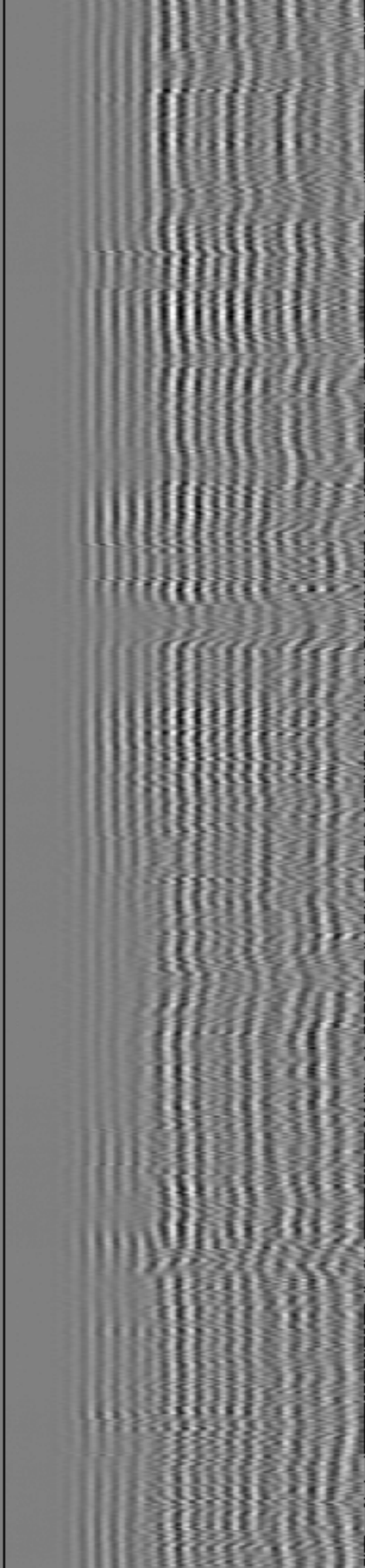
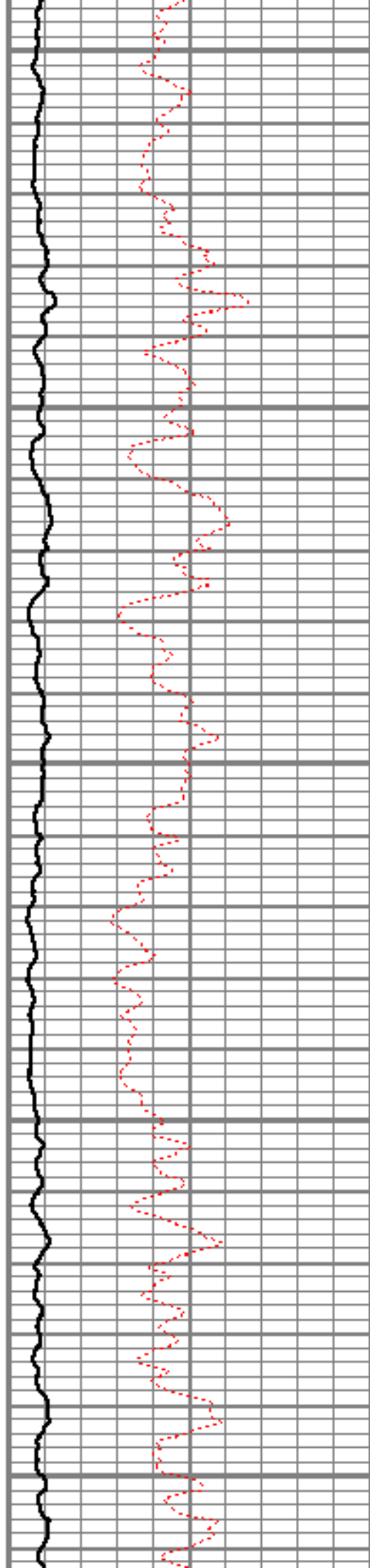
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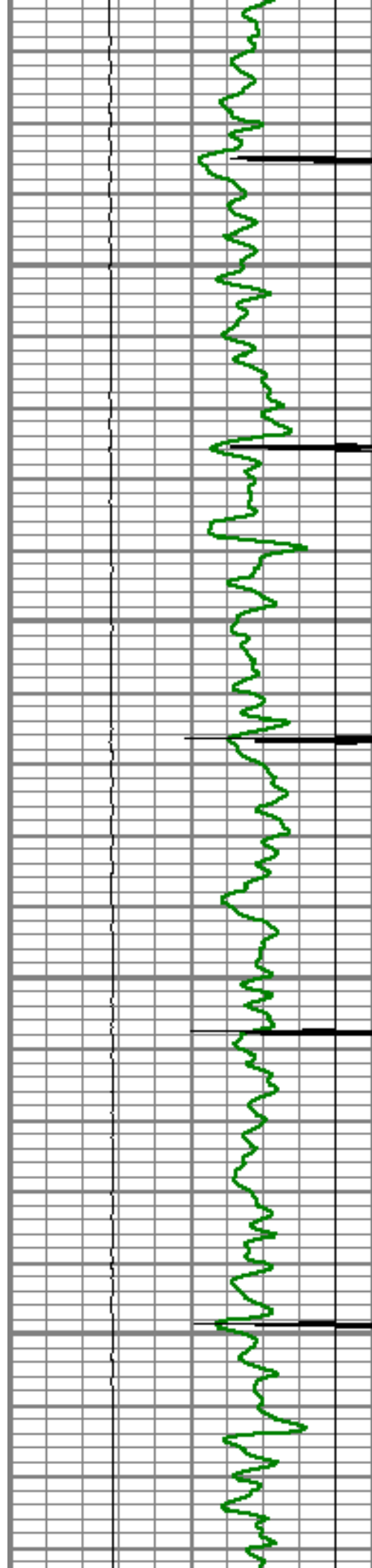
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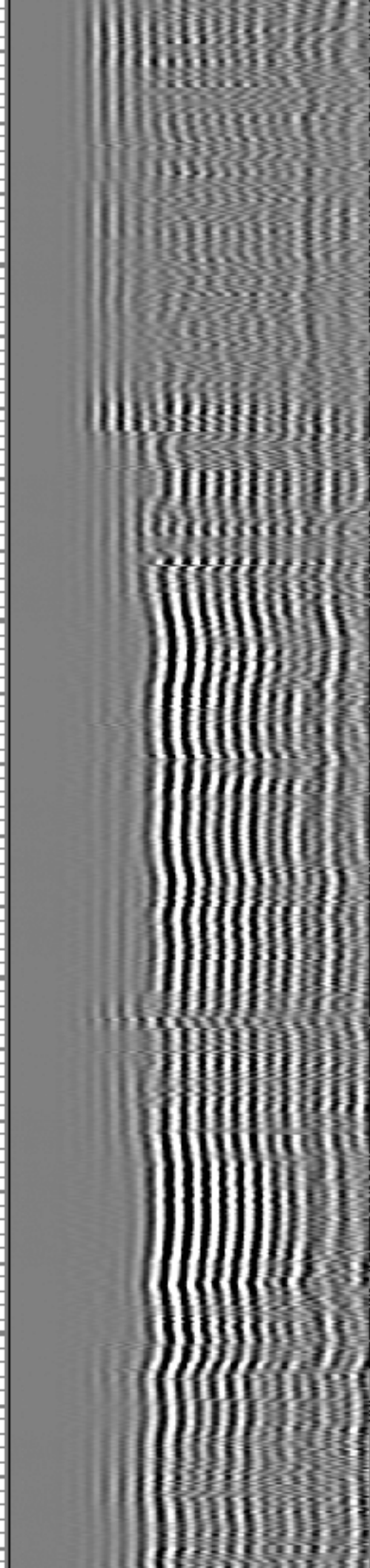
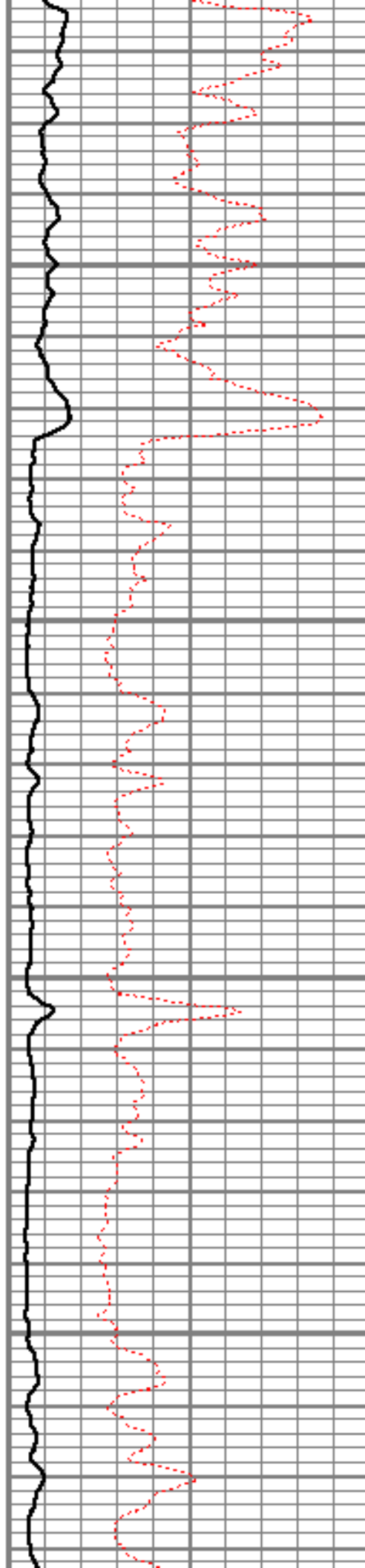


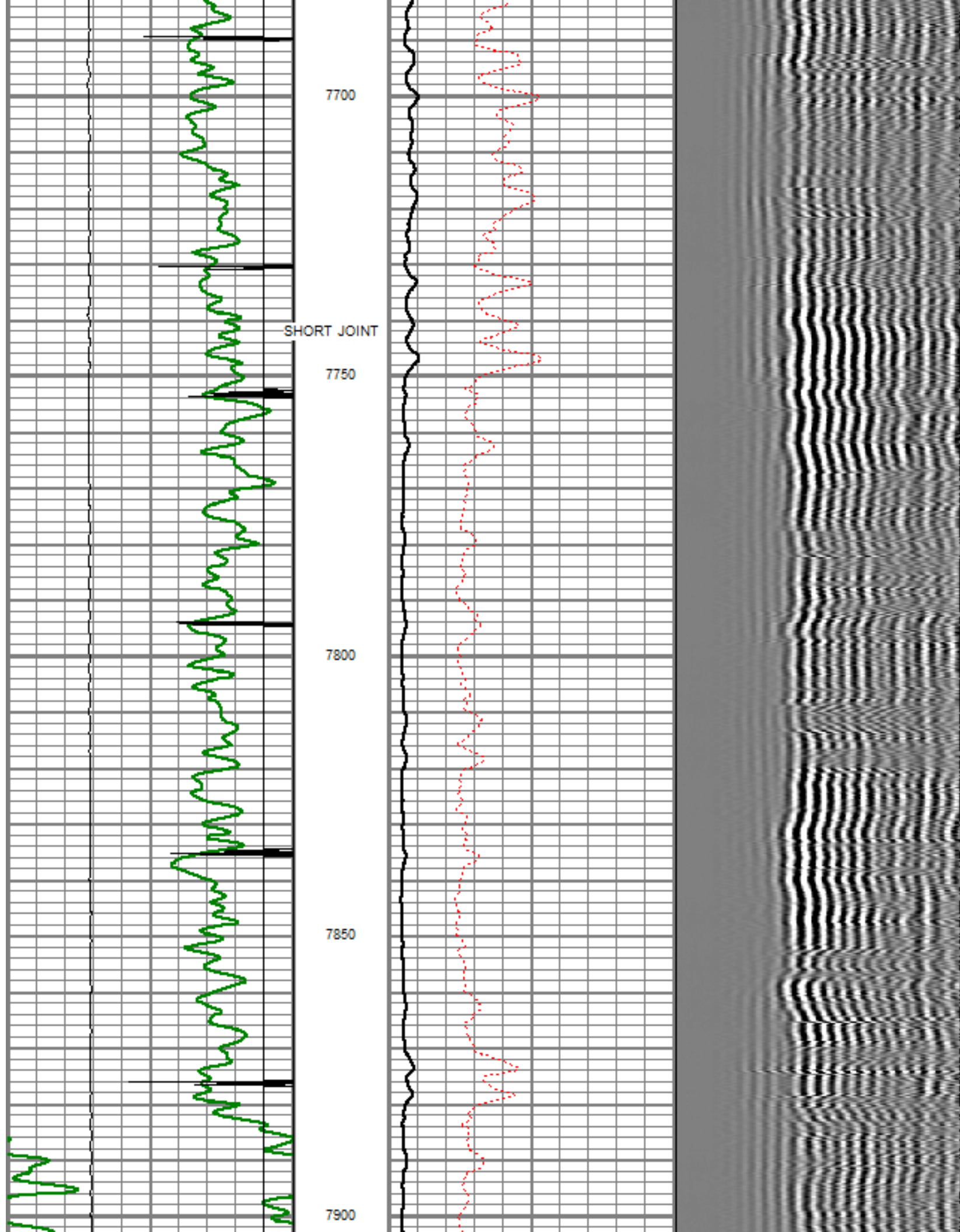
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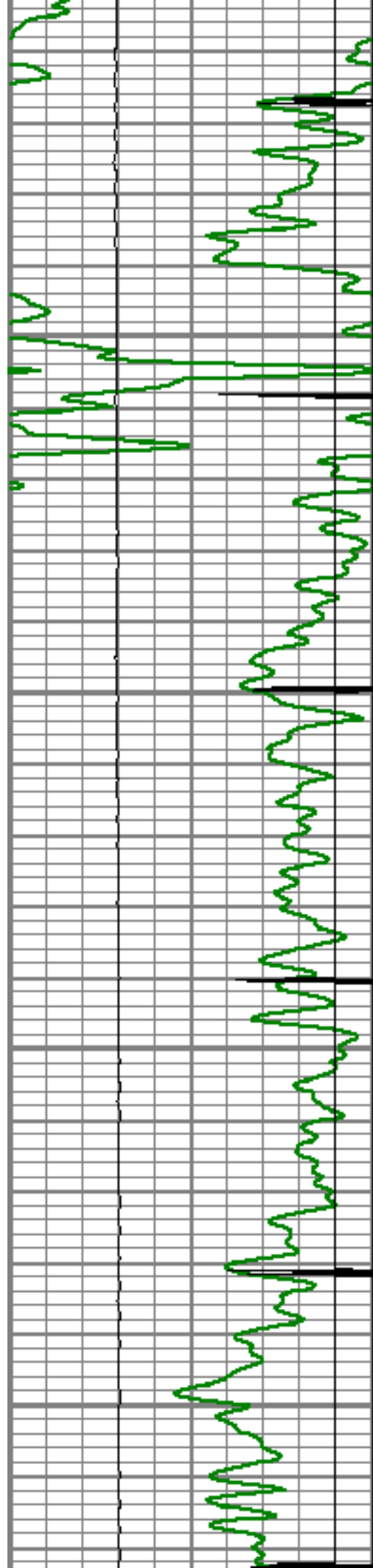
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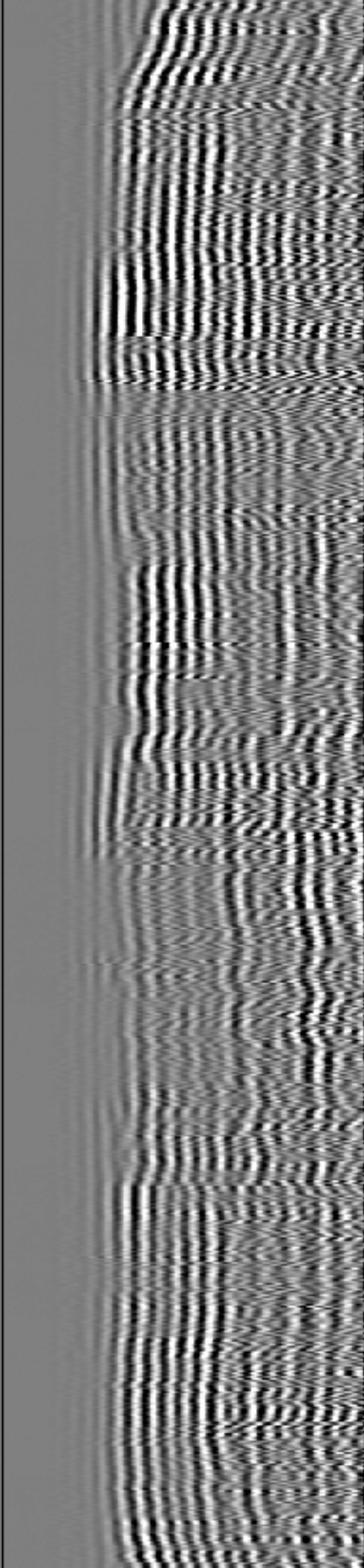
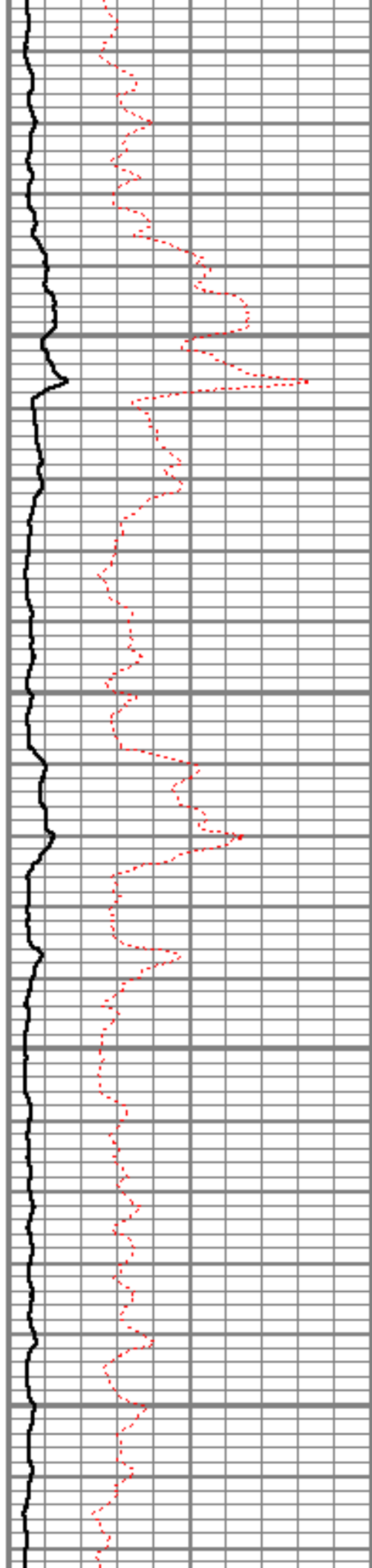


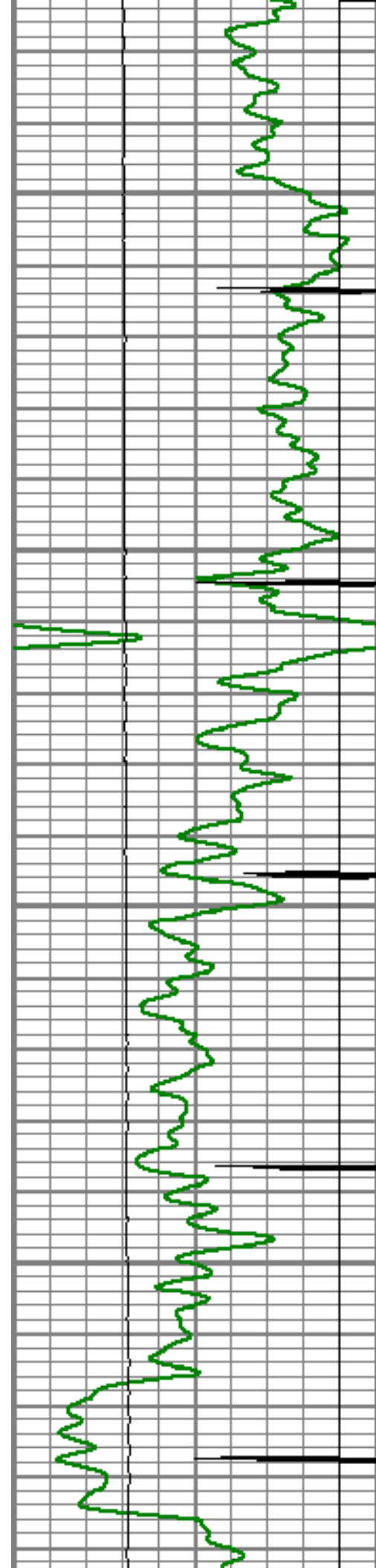
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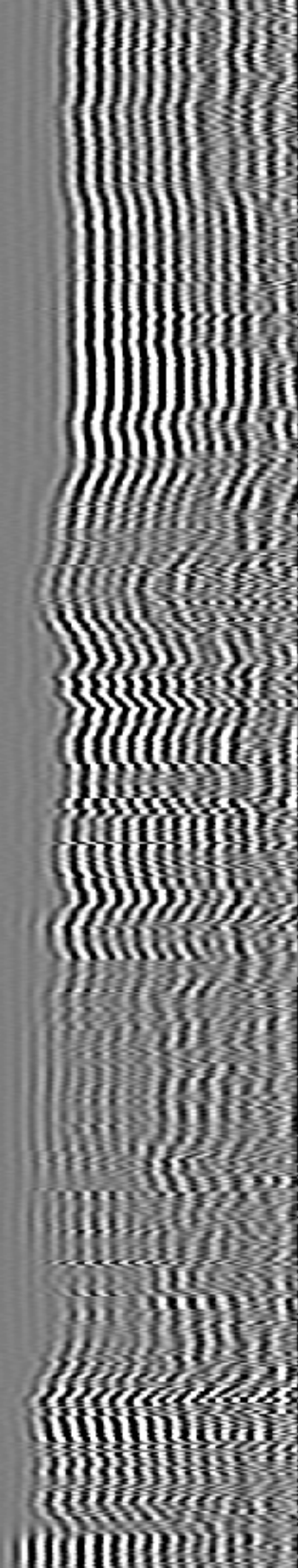
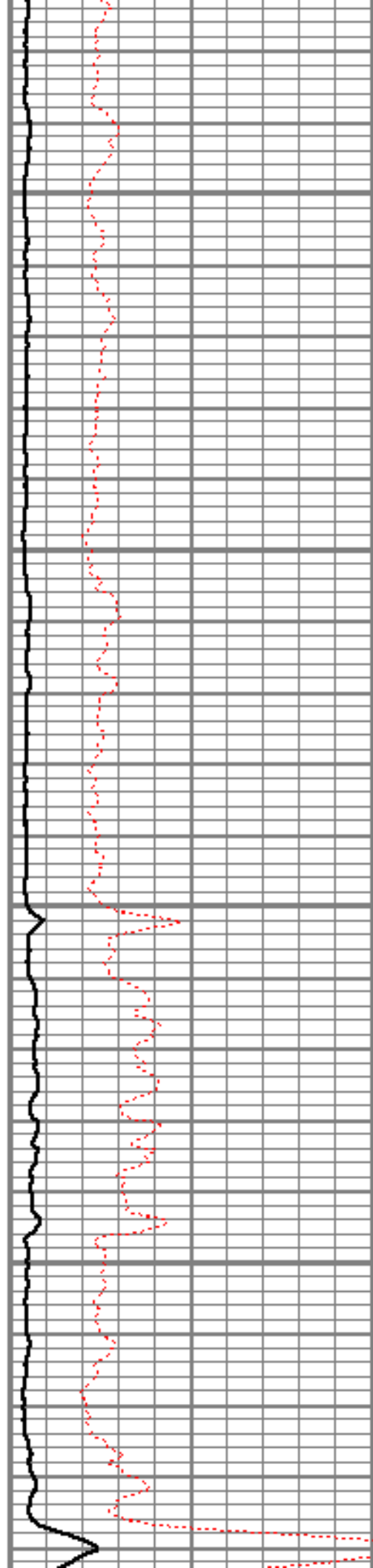


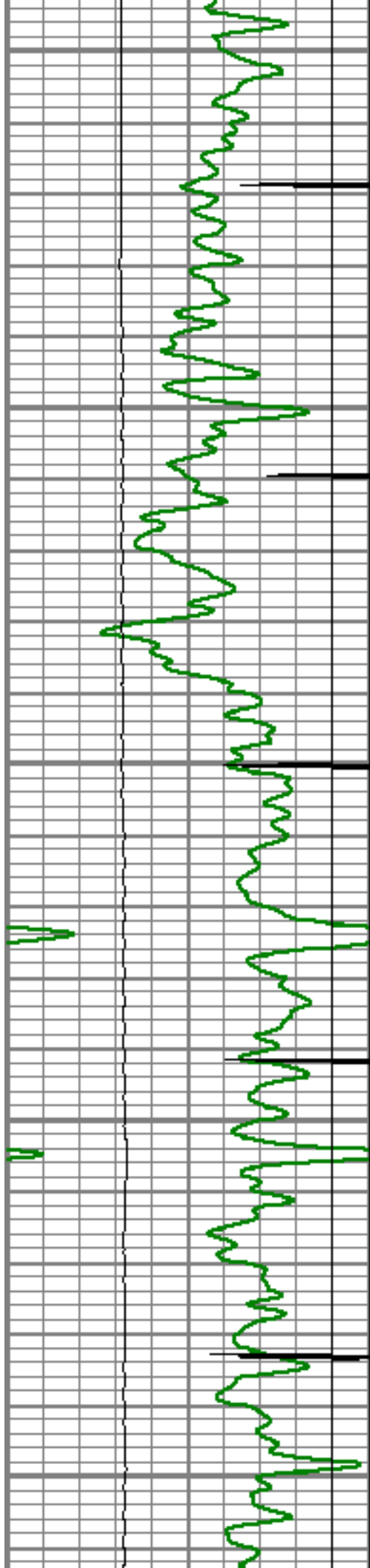
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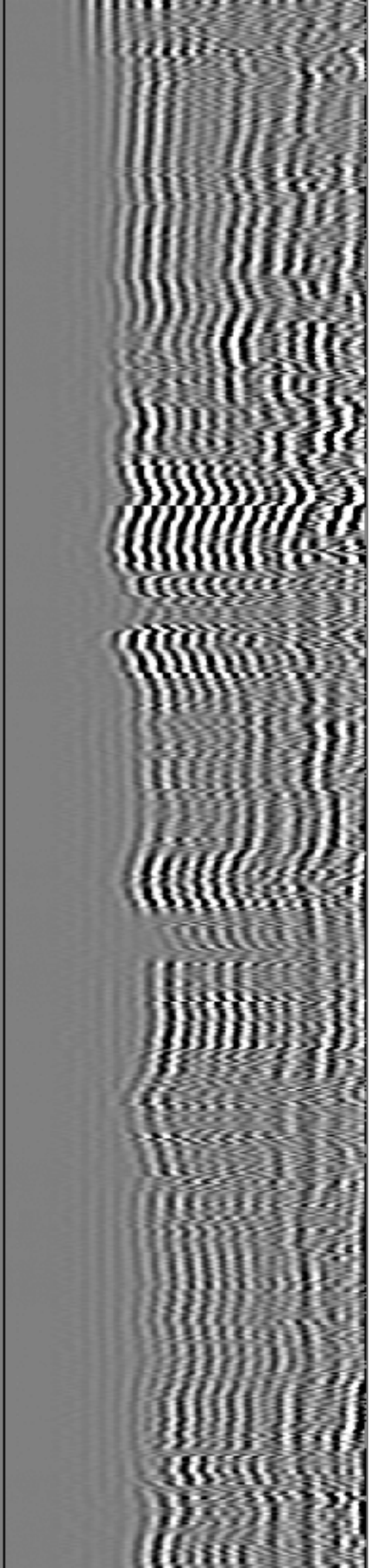
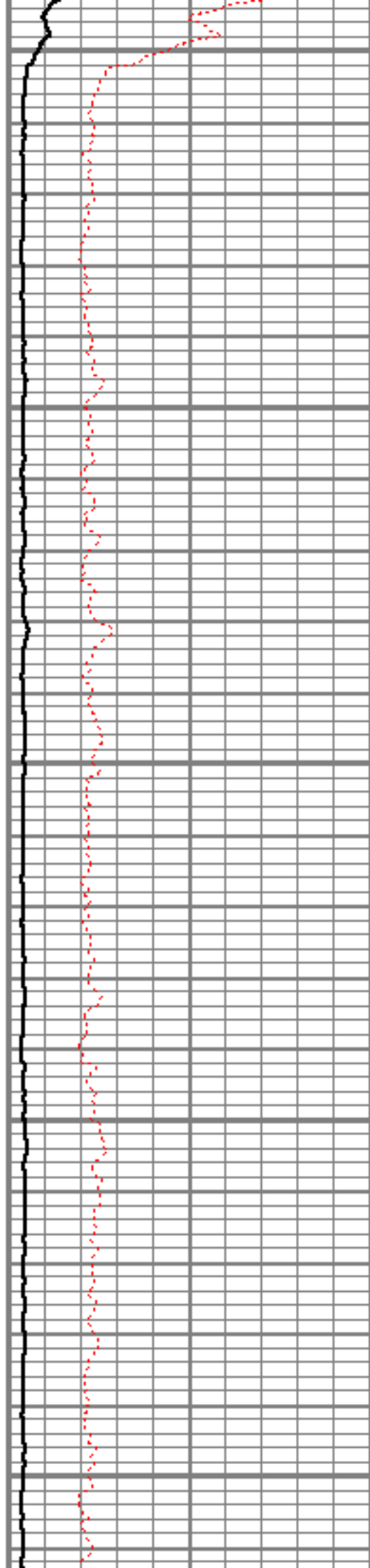
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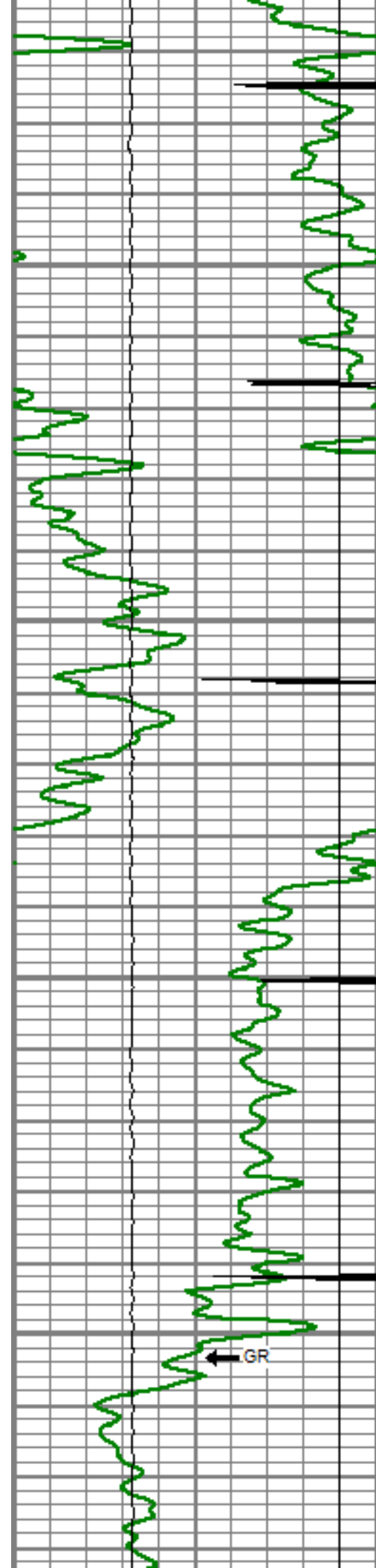
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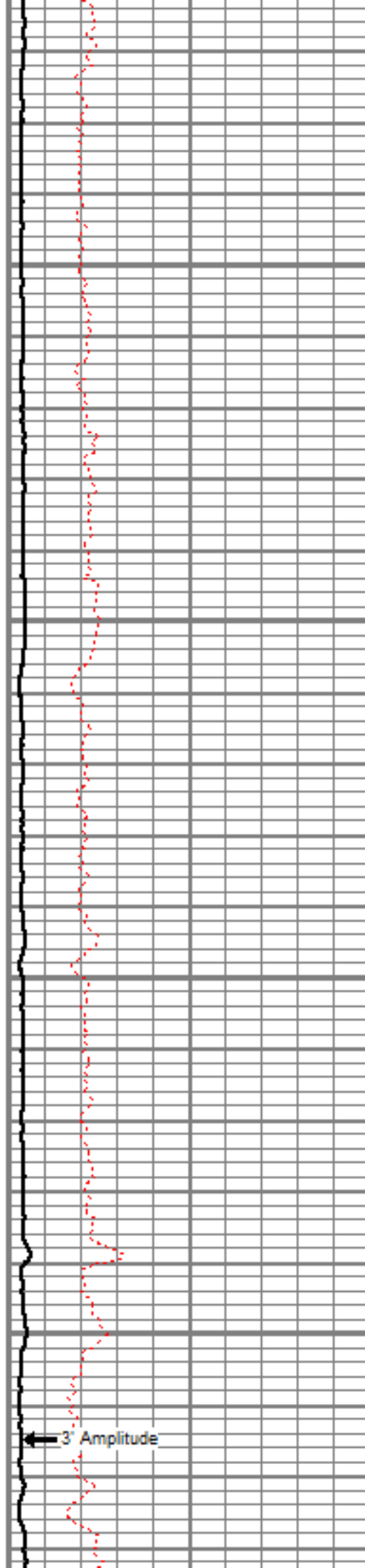
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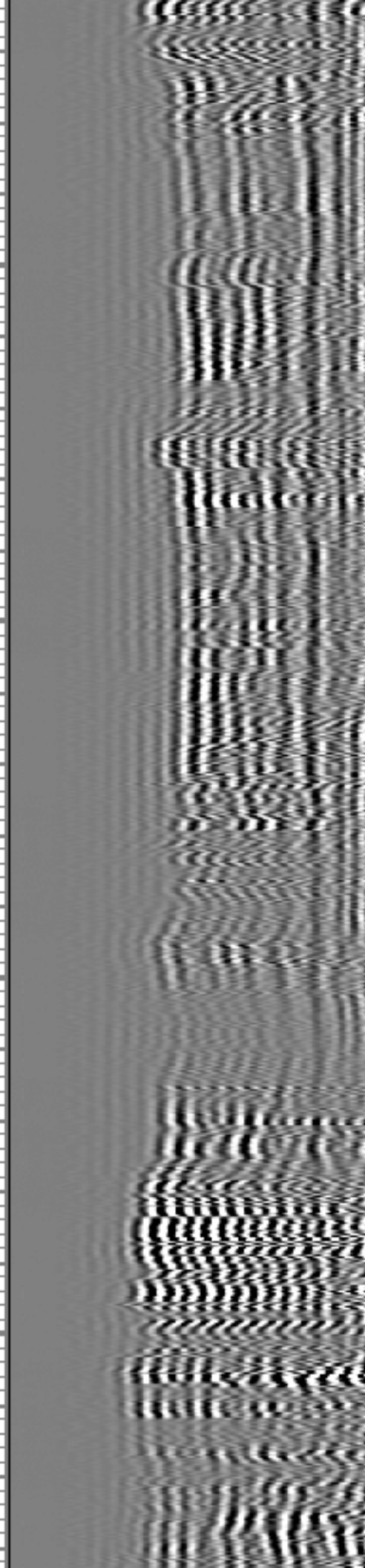
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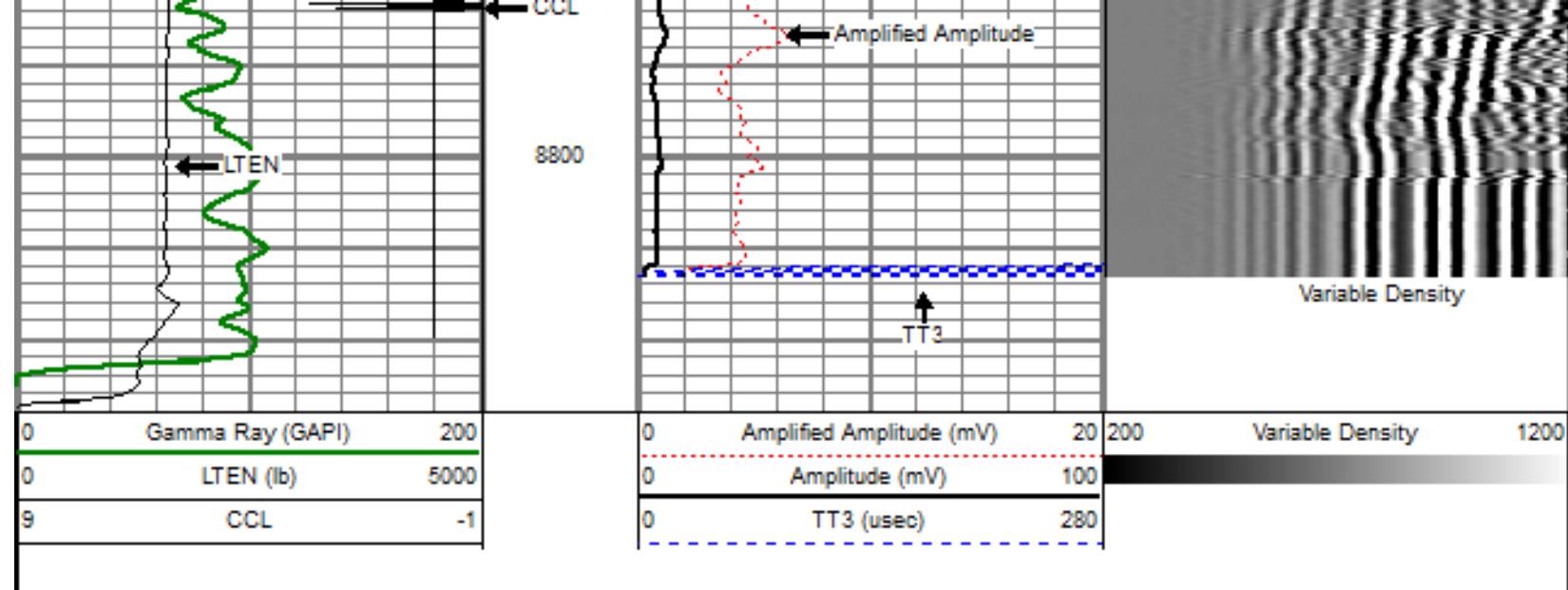
8750

GR





3 Amplitude





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	3.77		GR-PROBE_GRCCL (PRB_GRCCL_275_01) 4.54 Probe 2.75" 4 Channel Pulse	2.75	30.00
TEMP	0.17		TEMP-Comprobe (TEMP_CMPRB_1375_01) 2.88 Positive pulse Temp tool	1.38	15.00
Dataset: crandell 2-8-26.db: field/well/run1/pass3OH Total Length: 22.96 ft Total Weight: 126.50 lb O.D. 2.75 in					

	Company	ENCANA OIL & GAS (USA) INC
	Well	CRANDELL 2-8-26
	Field	WATTENBERG
	County	BROOMFIELD
	State	COLORADO