

CEMENT BOND LOG



Mesa Wireline

Company	ENCANA OIL & GAS (USA)		
Well	BURY CRANDELL 31-23		
Field	WATTENBERG		
County	BROOMFIELD		
State	COLORADO		
Company	ENCANA OIL & GAS (USA)		
Well	BURY CRANDELL 31-23		
Field	WATTENBERG		
County	BROOMFIELD		
State	COLORADO		
Location:	API #: 05-014-20711-0000		Other Services
	SHL: 1066' FNL & 1053' FEL BHL: 510' FNL & 1880' FEL SEC: 23 TWP: 1N RGE: 68W		NONE
Permanent Datum	GROUND LEVEL		Elevation 5113'
Log Measured From	KELLY BUSHING = 13'		K.B. 5126' D.F. 5127' G.L. 5113'
Drilling Measured From	KELLY BUSHING		

Date	17 FEB 2012								
Run Number	ONE								
Depth Driller	8571'								
Depth Logger	8493'								
Bottom Logged Interval	8493'								
Top Log Interval	3230'								
Open Hole Size	7.875"								
Type Fluid	WATER								
Density / Viscosity	~8.34 LBS/GAL								
Max. Recorded Temp.	255 DegF								
Estimated Cement Top	3760'								
Time Well Ready	N/A								
Time Logger on Bottom	N/A								
Equipment Number	10801W / PB01								
Location	AULT, CO								
Recorded By	B. MAYNARICH								
Witnessed By	TOM MAJORS								
Borehole Record					Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To		
ONE	12.25"	0	1128'						
TWO	7.875"	0	8571'						
Casing Record	Size	Wgt/Ft	Top	Bottom					
Surface String	8.625"	24#	0	1128'					
Prot. String									
Production String	4.5"		11.6#	0	8556'				
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 29 JAN 2012
SHORT JOINTS: 7410' - 7432'

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



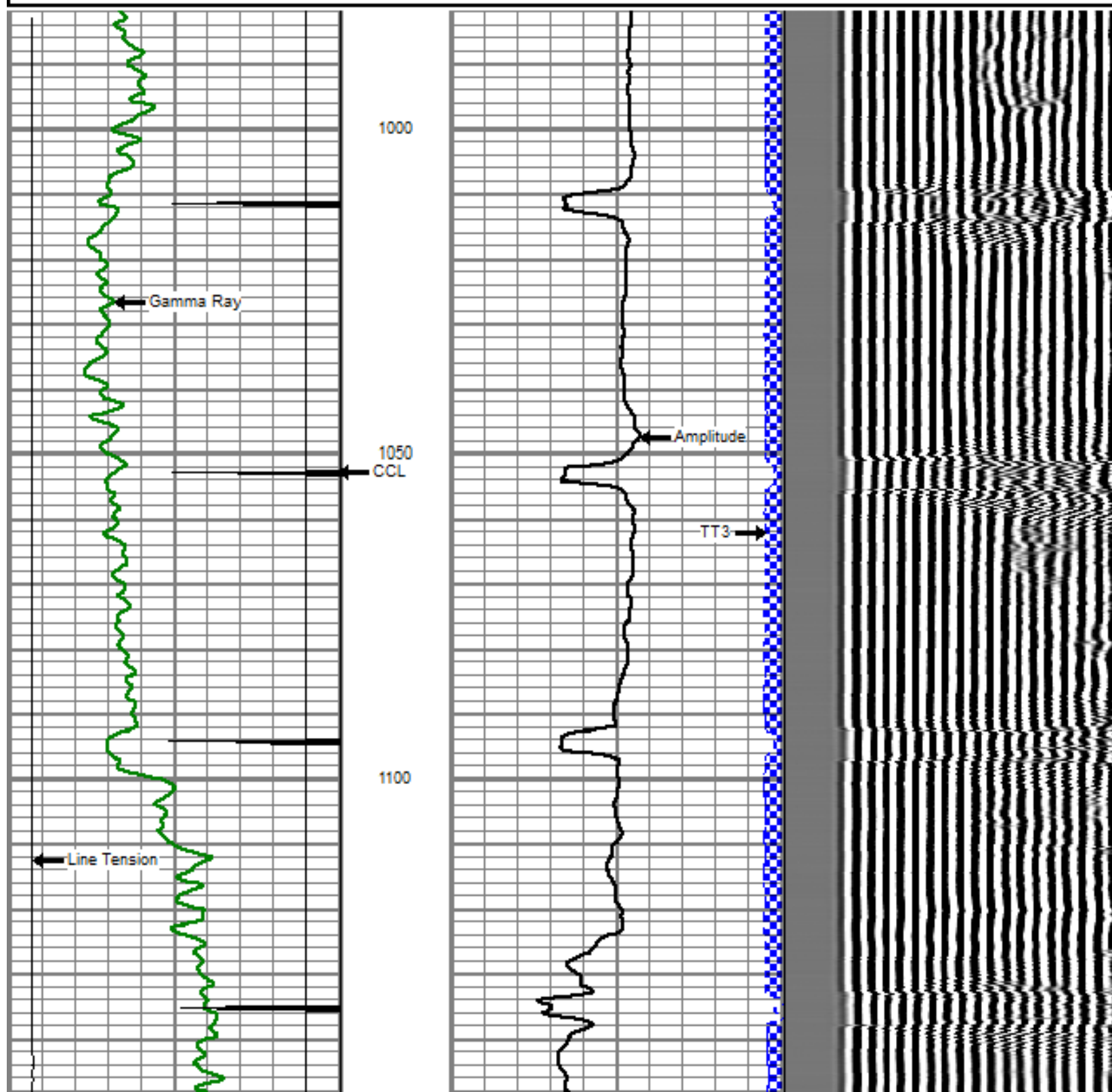
SURFACE CASING PASS

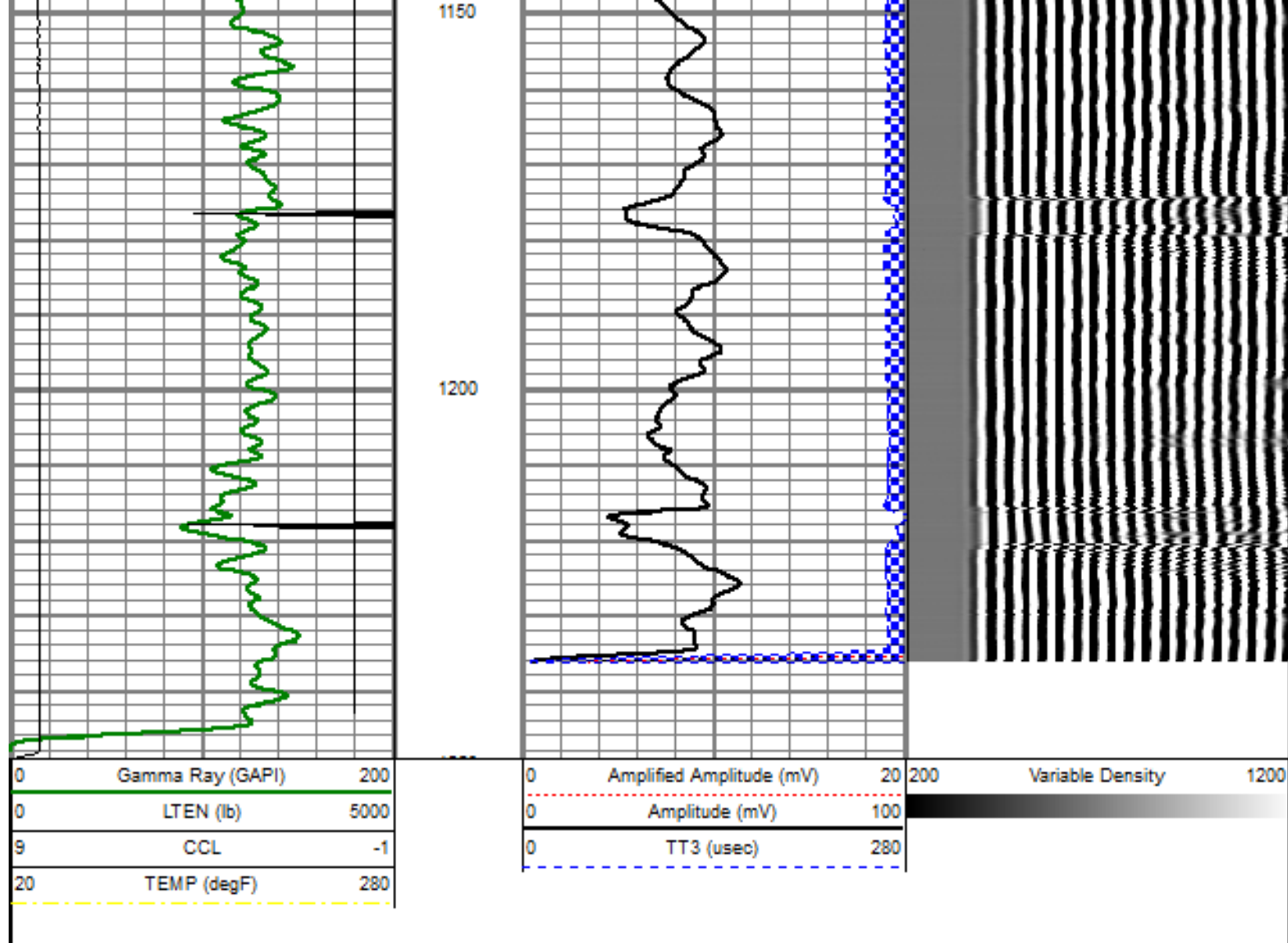
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Dataset Pathname: pass5
Presentation Format: dobl_prb
Dataset Creation: Fri Feb 17 17:07:20 2012 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200
0	LTEN (lb)	5000
9	CCL	-1
20	TEMP (degF)	280

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

200 Variable Density 1200

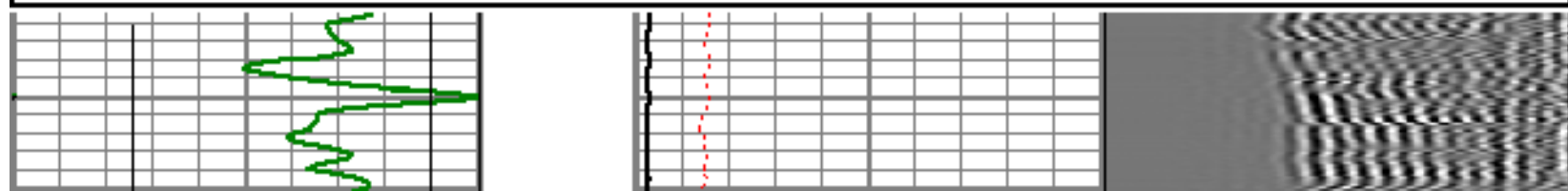
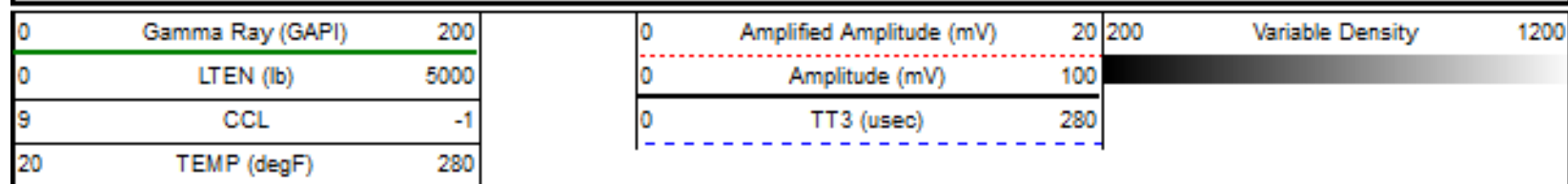


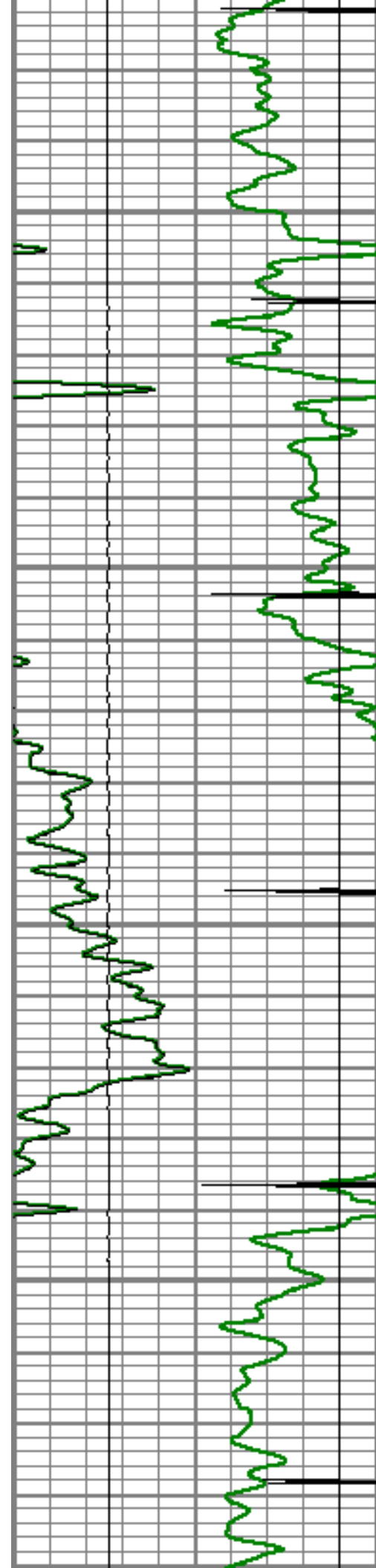


REPEAT PASS

SCALE 5" = 100'

Database File: burycrandell 31-23.db
 Dataset Pathname: pass2
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 Charted by: Depth in Feet scaled 1:240



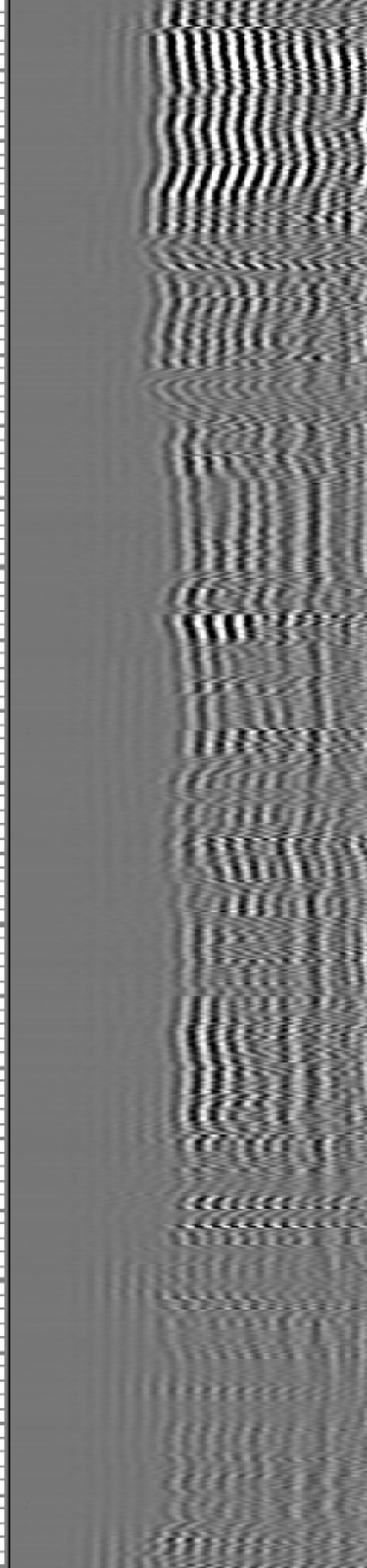
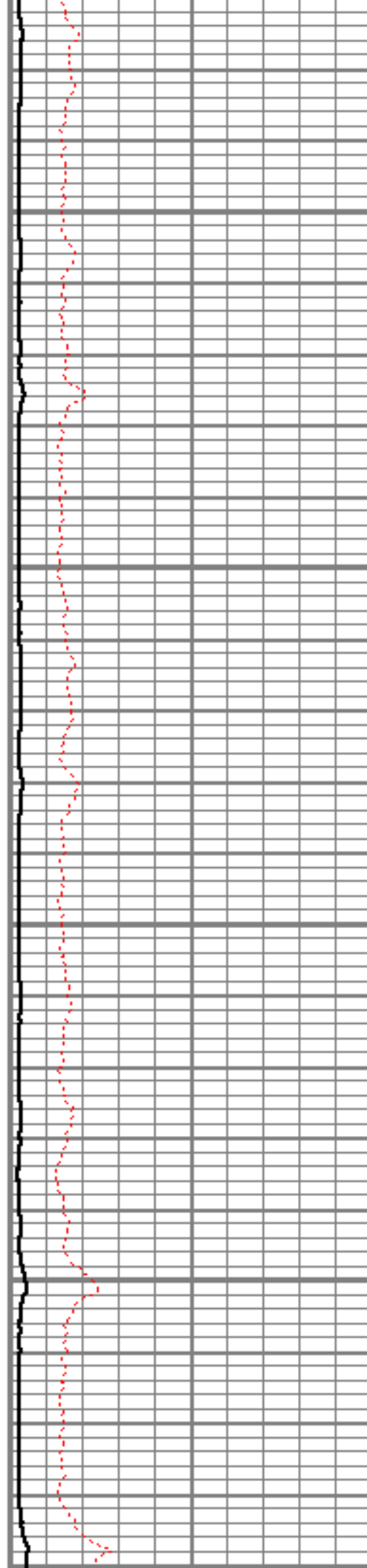


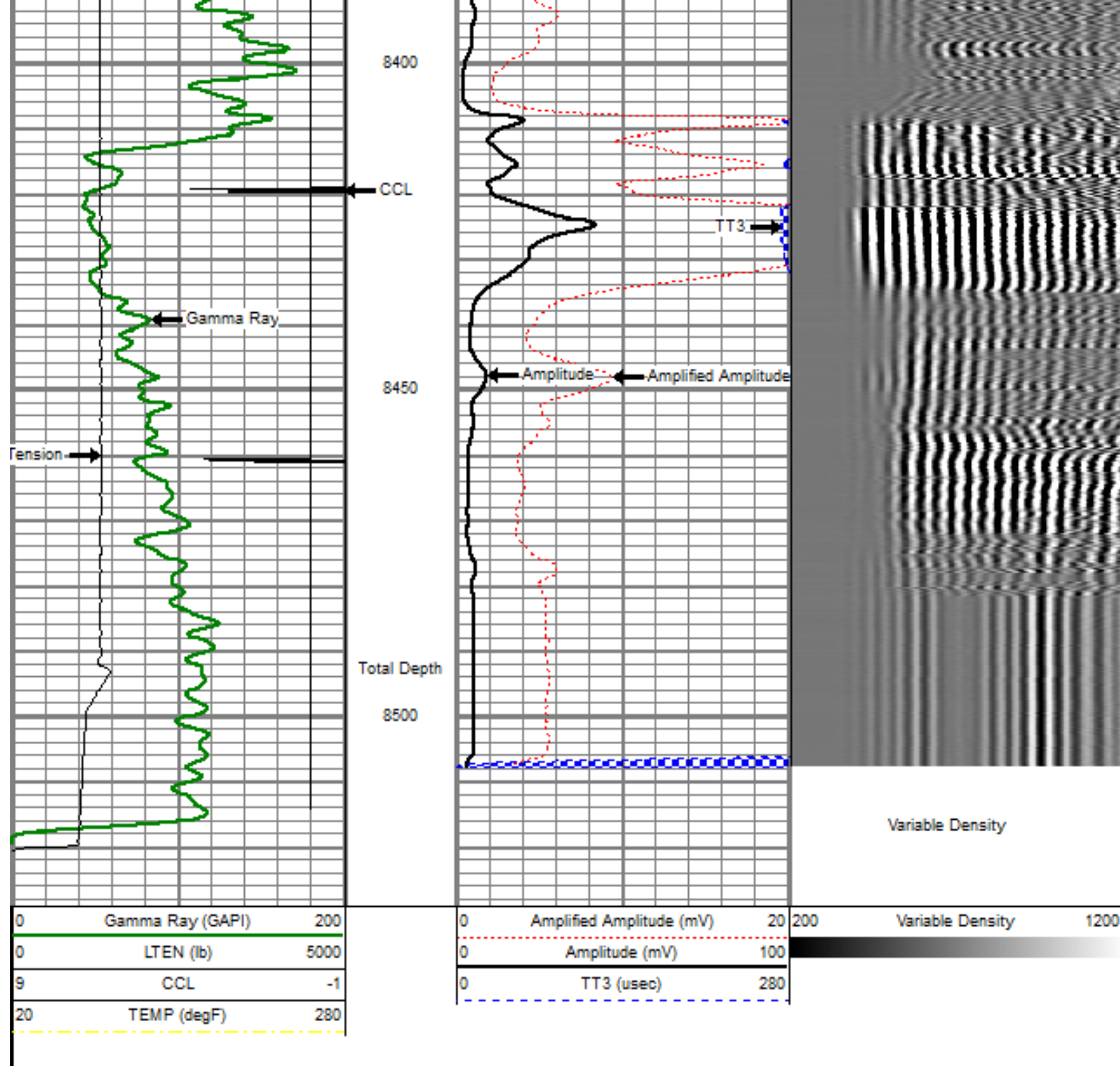
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8250

8300

8350

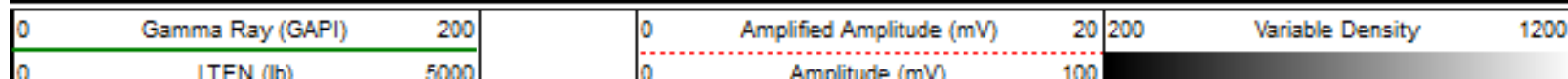




MAIN PASS

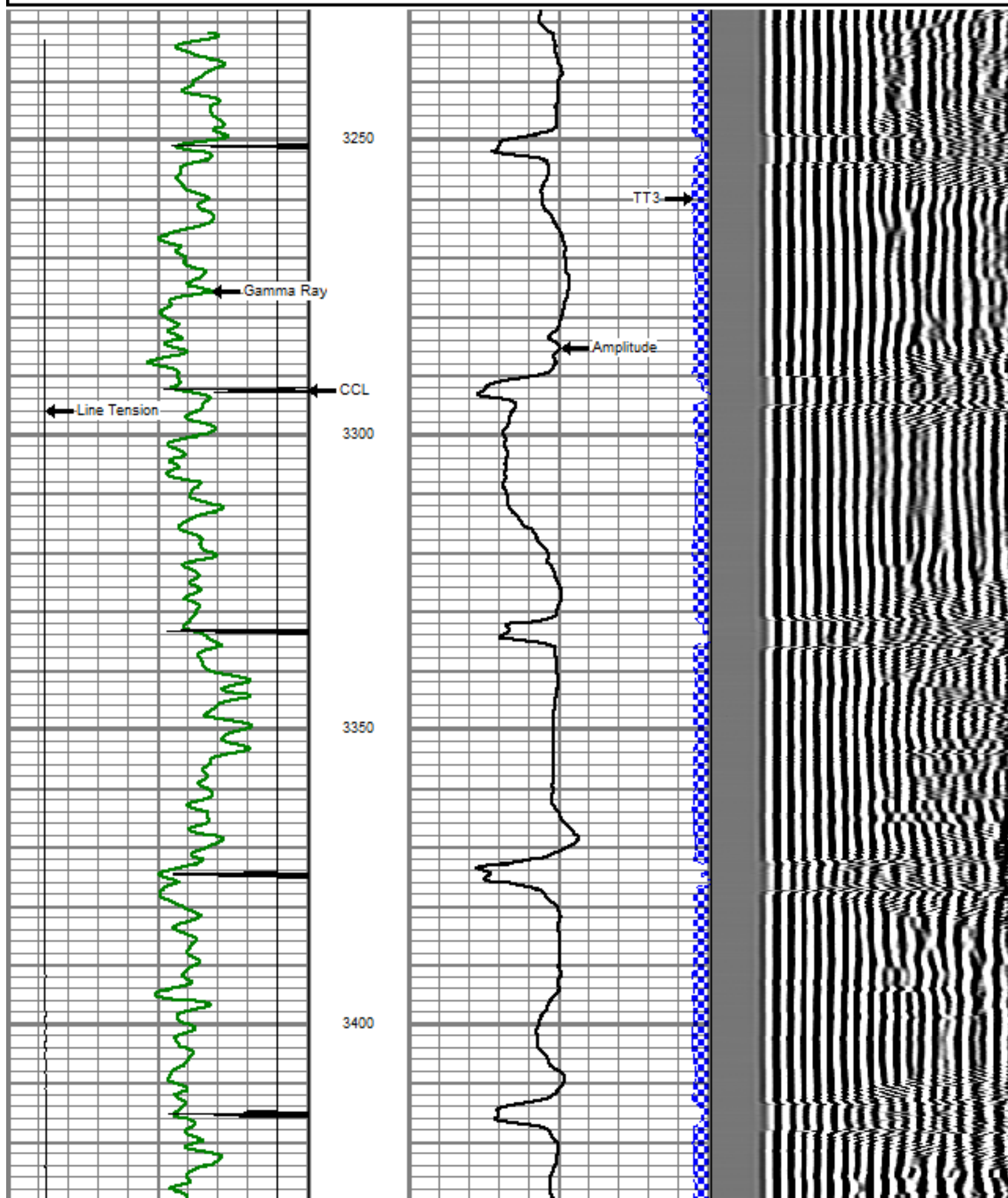
SCALE 5" = 100'

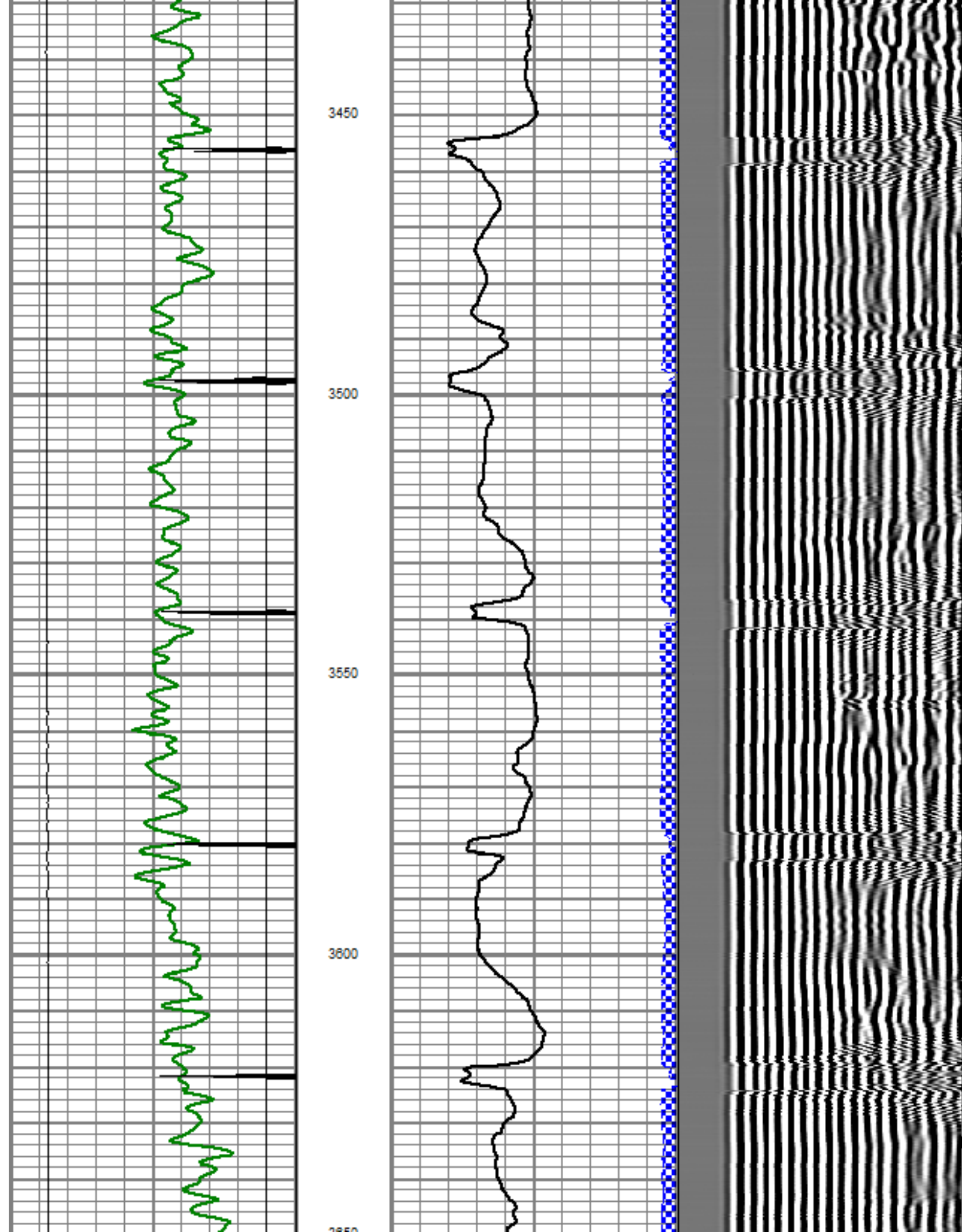
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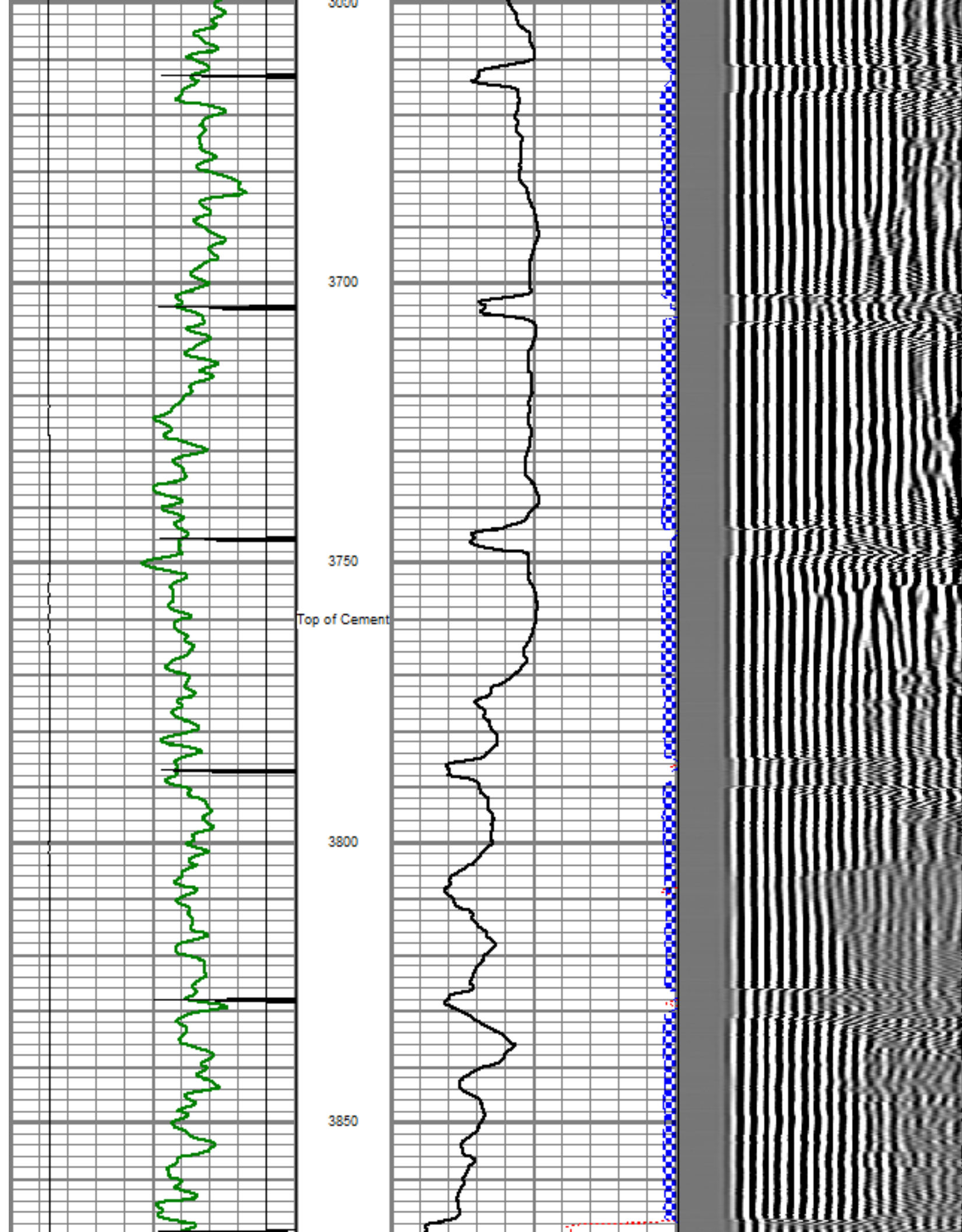


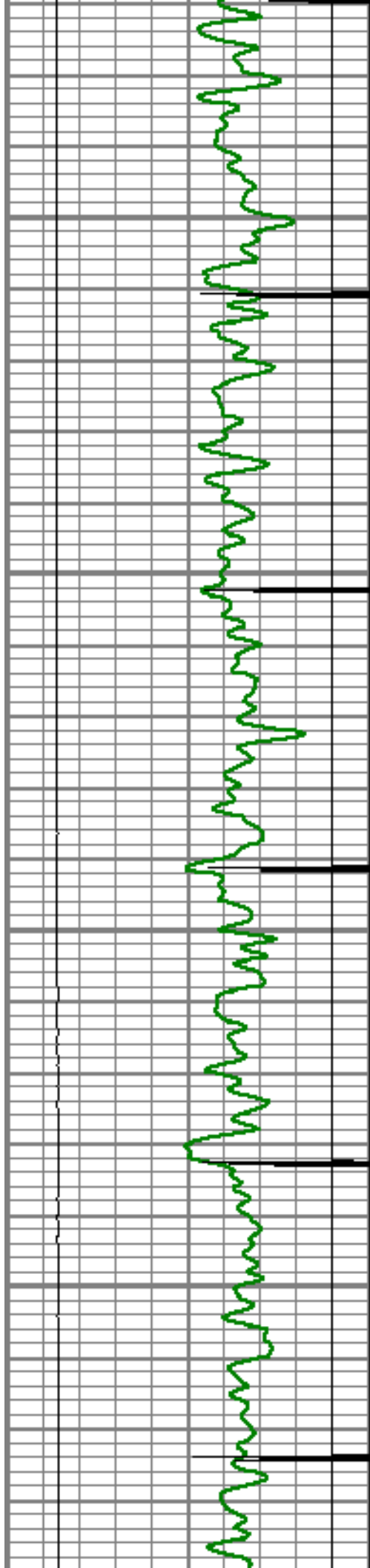
9	CCL	-1
20	TEMP (degF)	280

0	TT3 (usec)	280
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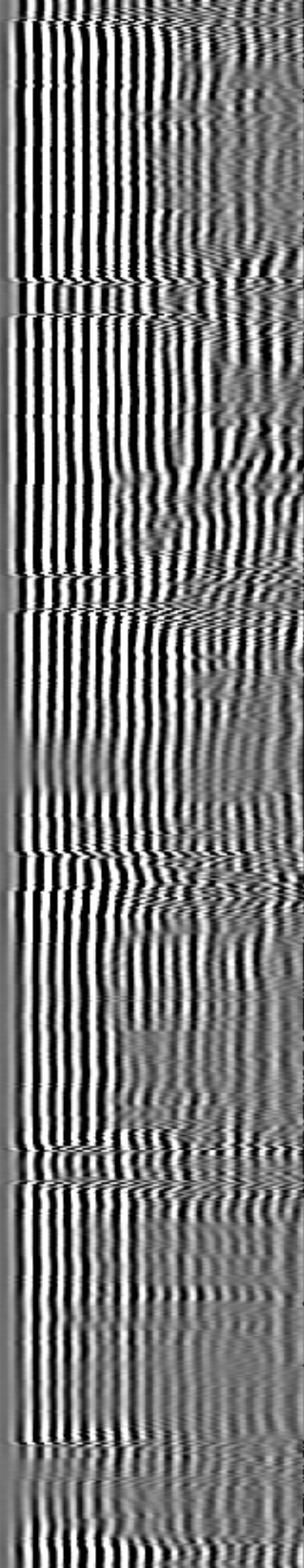
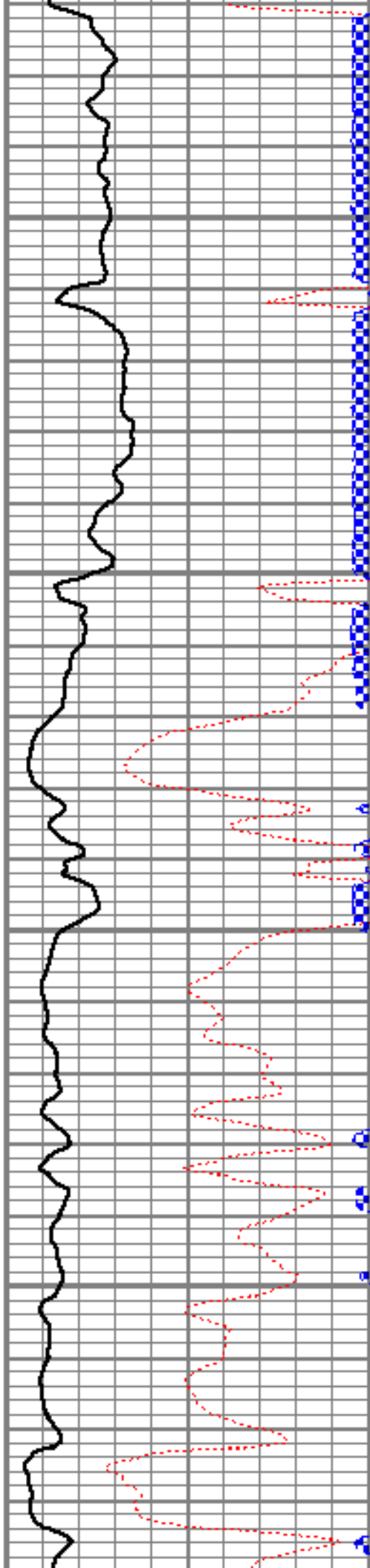


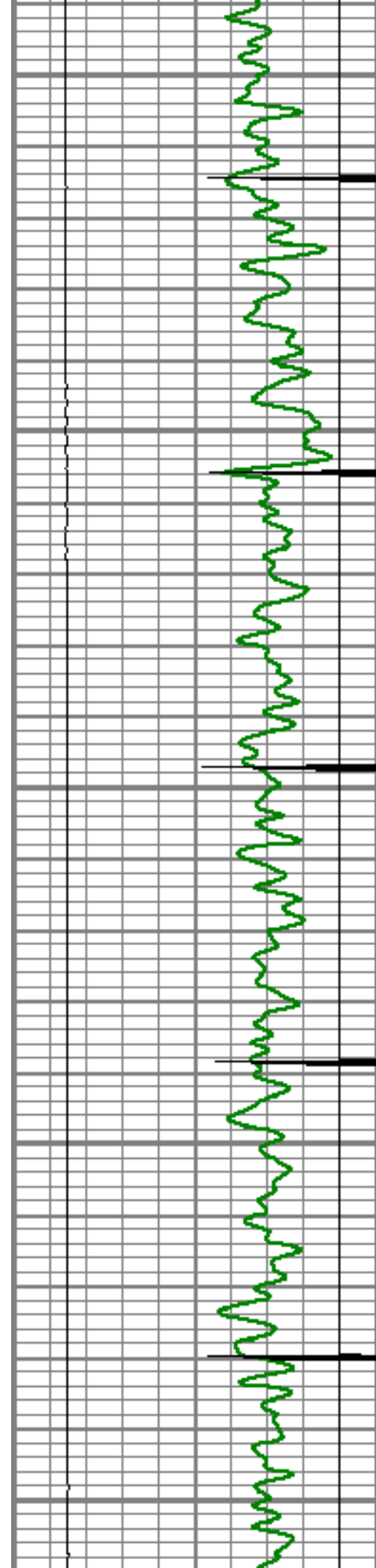
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4050





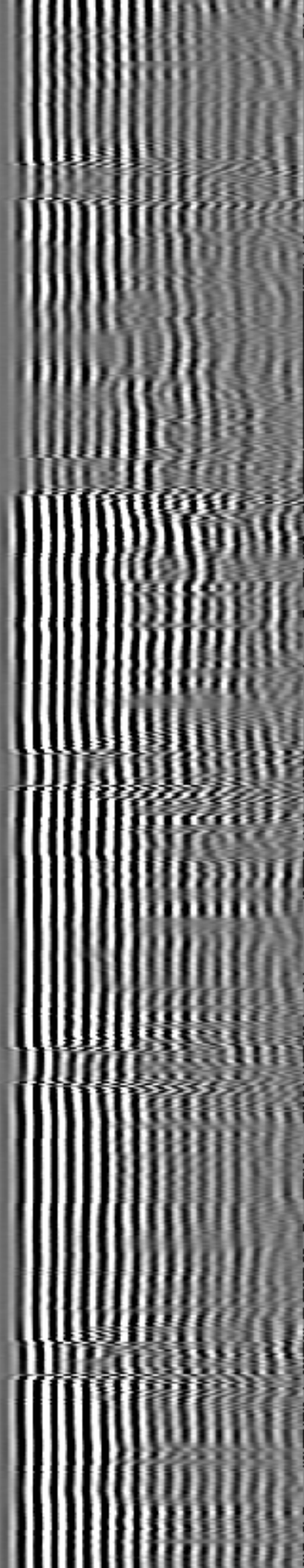
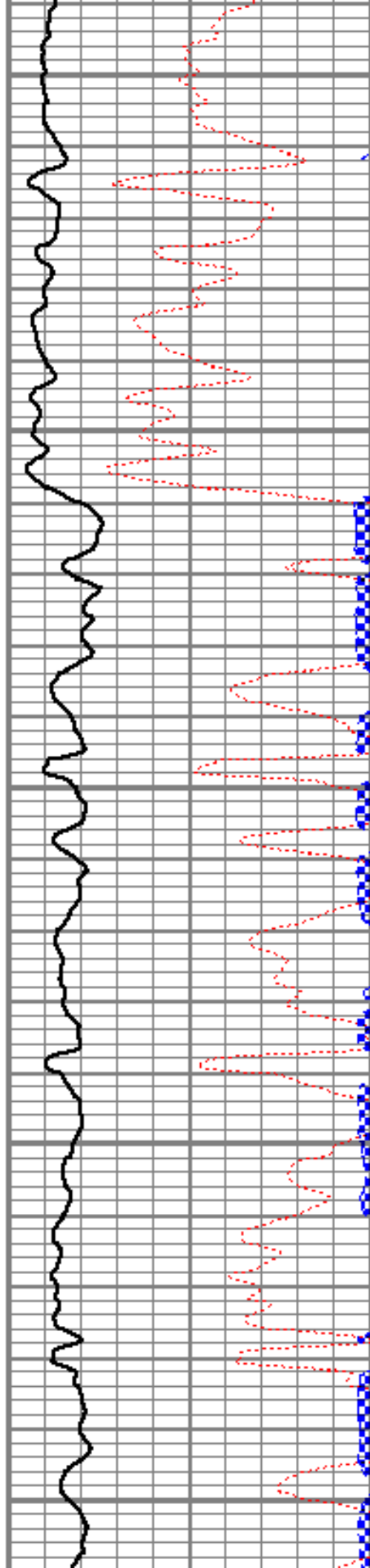
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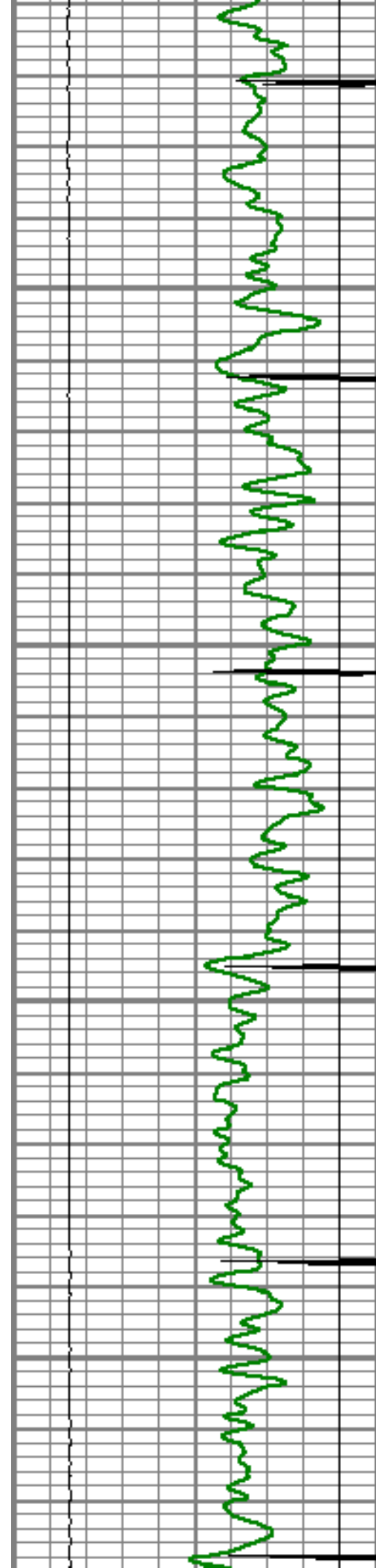
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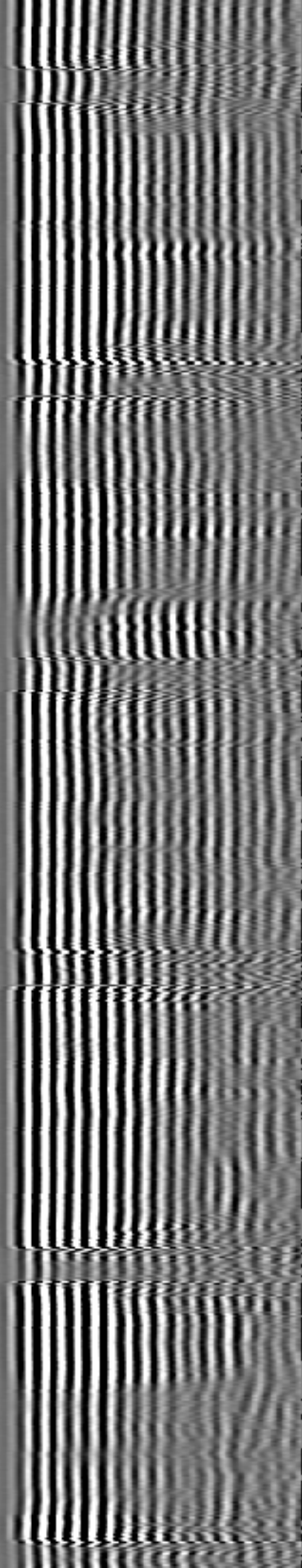
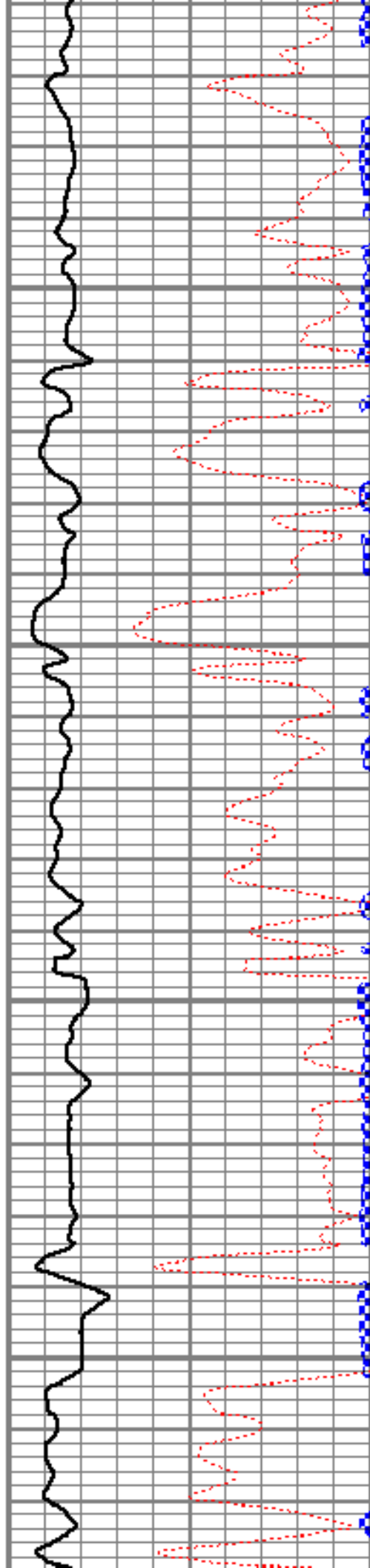


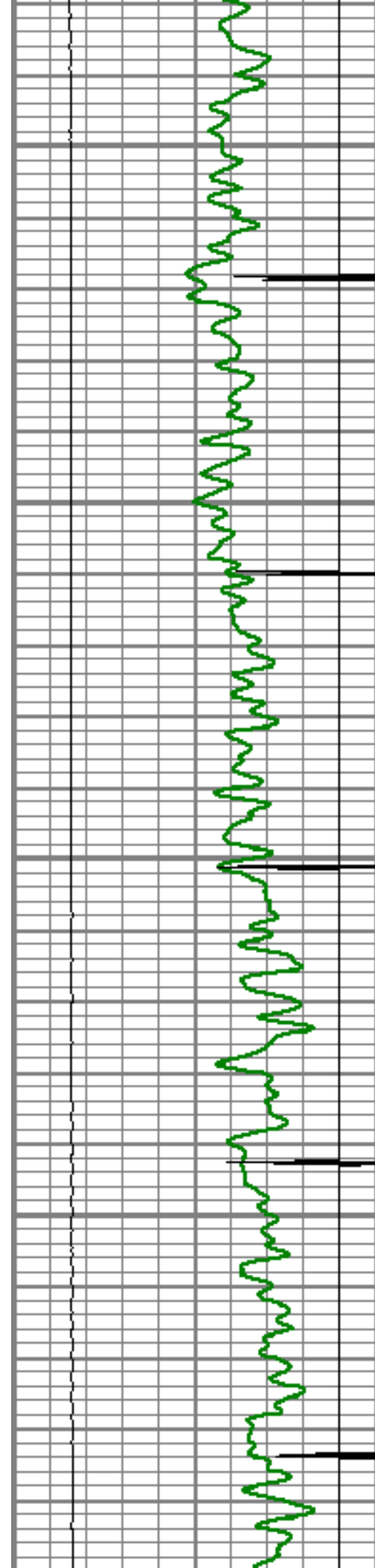
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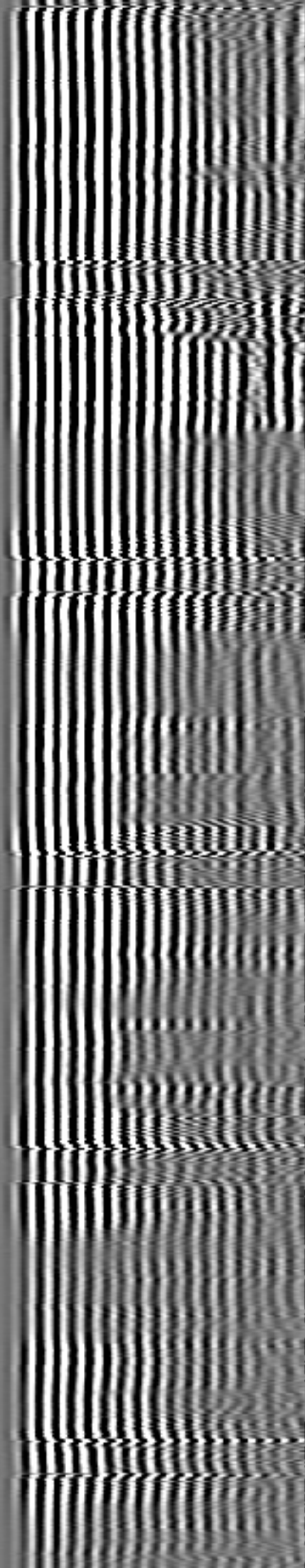
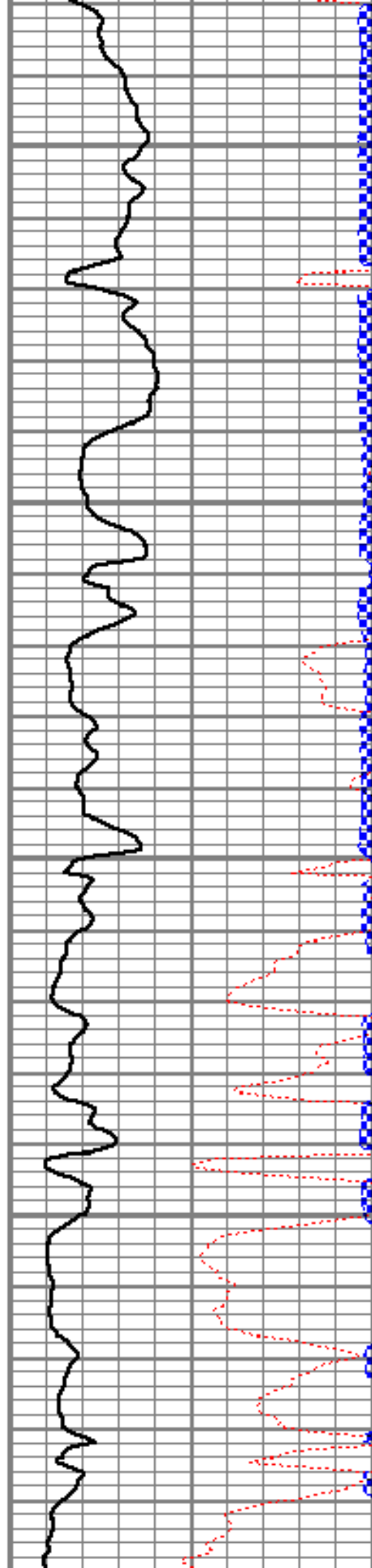
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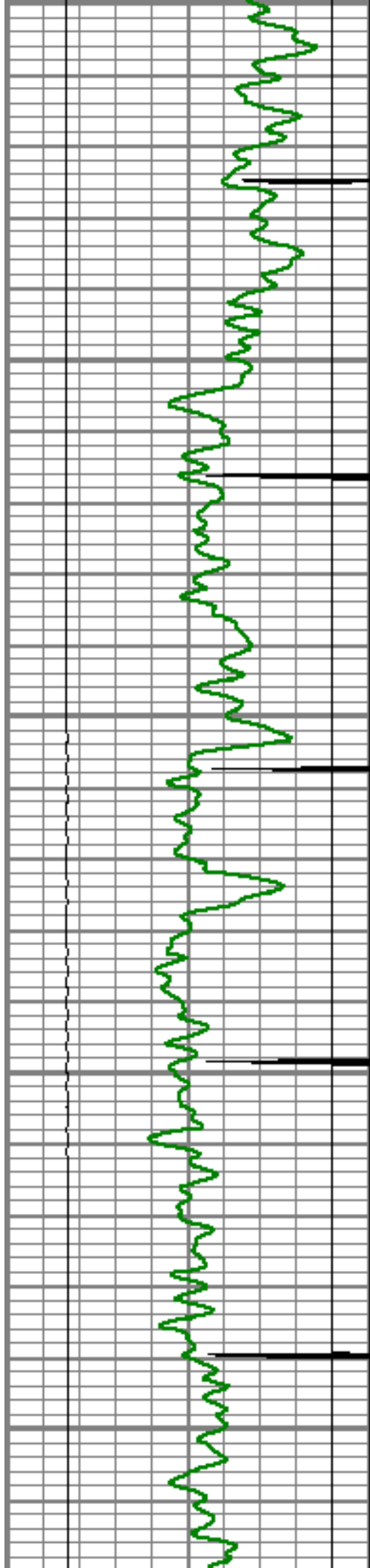
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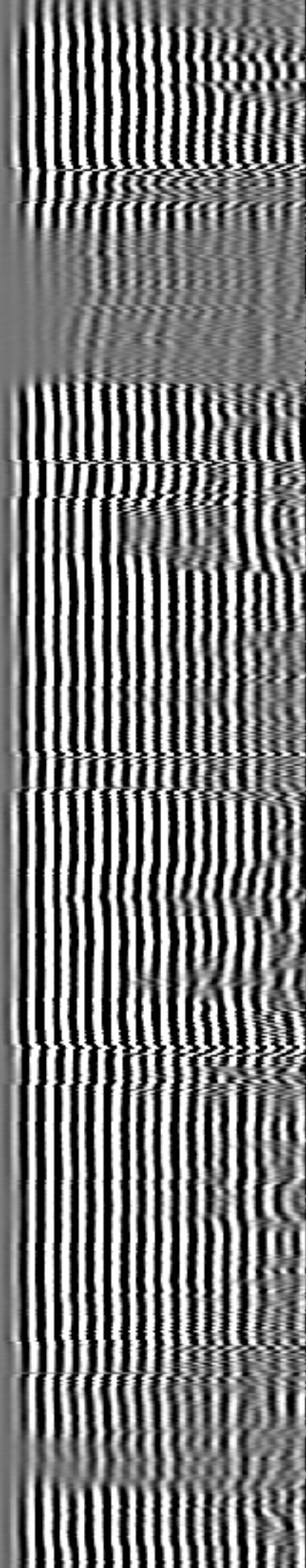
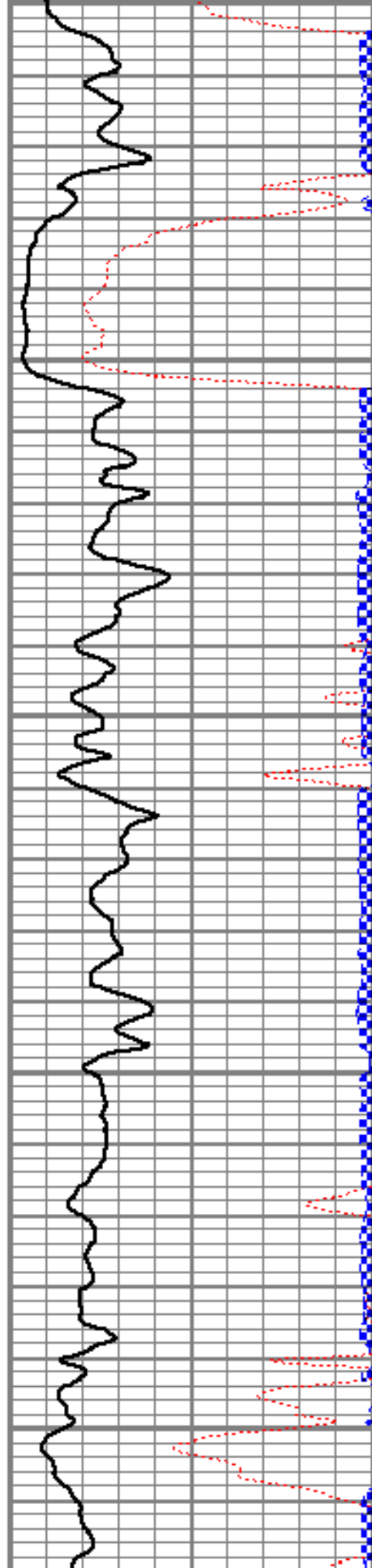
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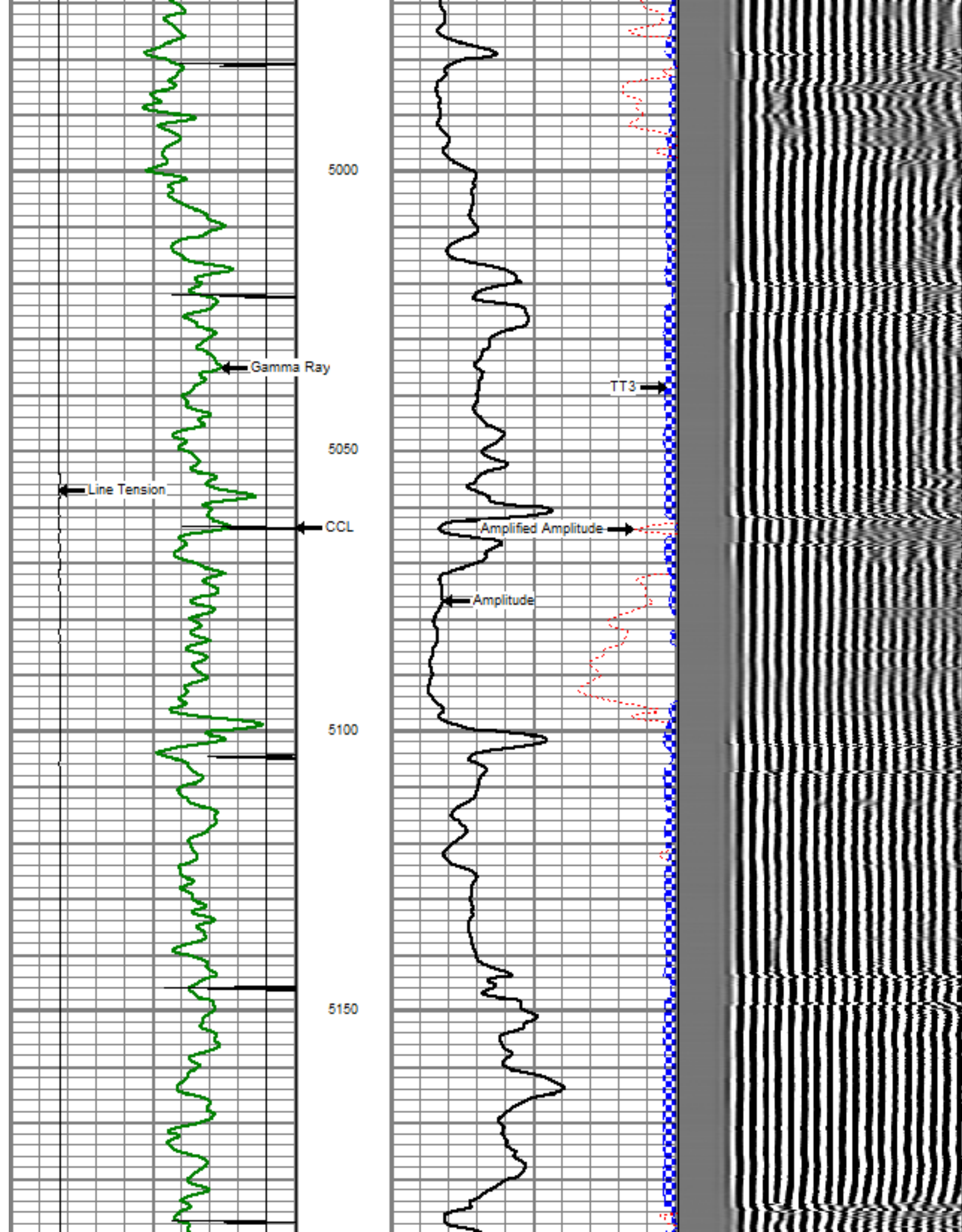
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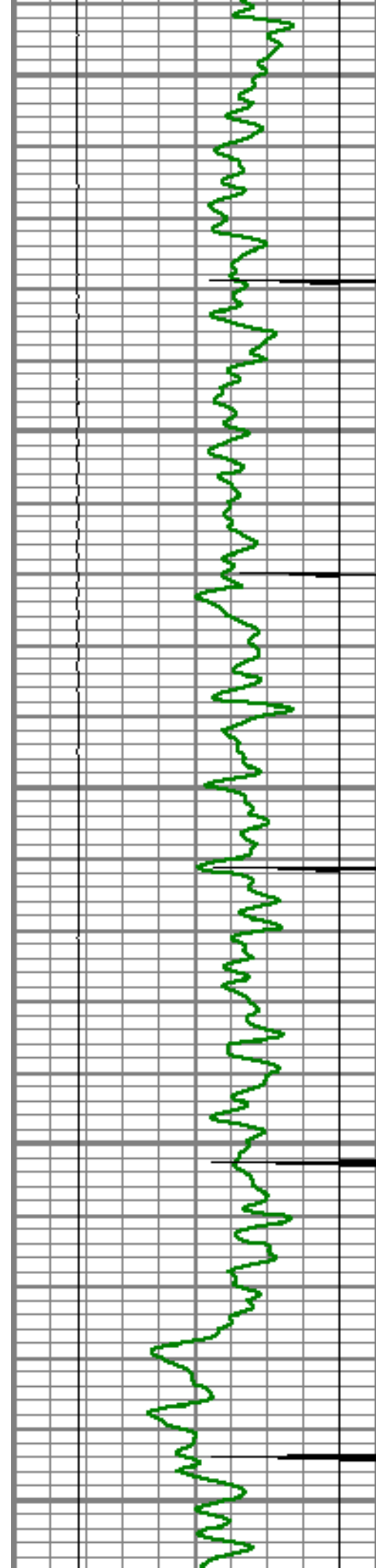
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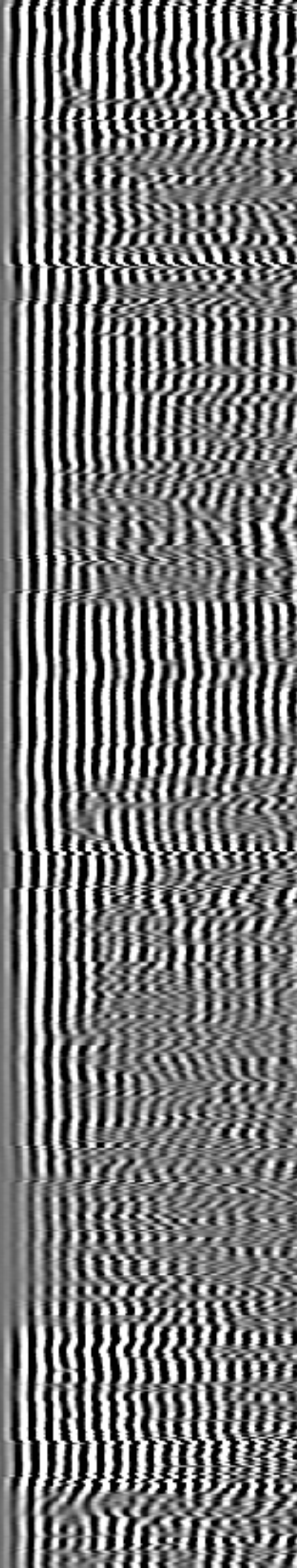
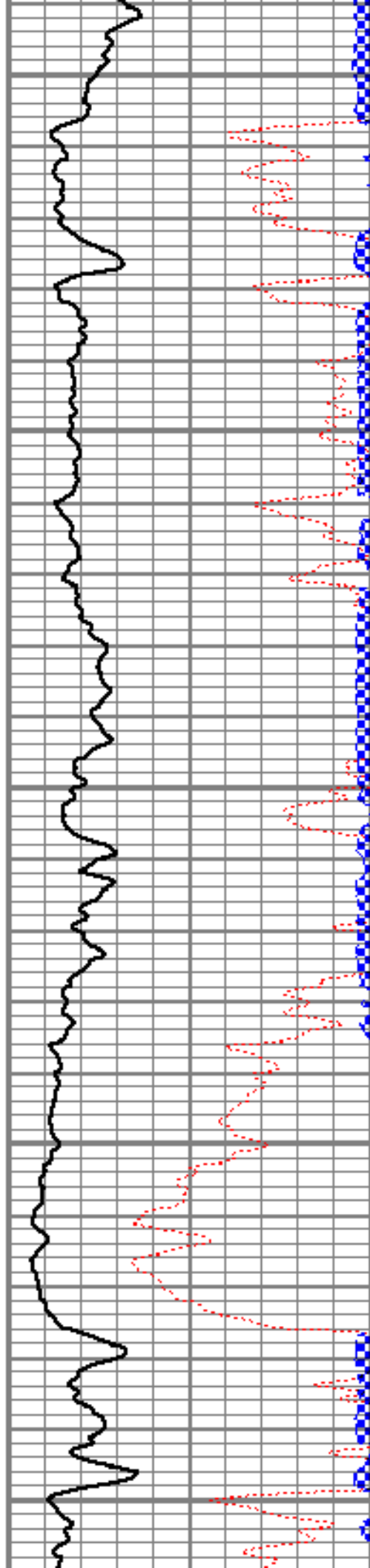
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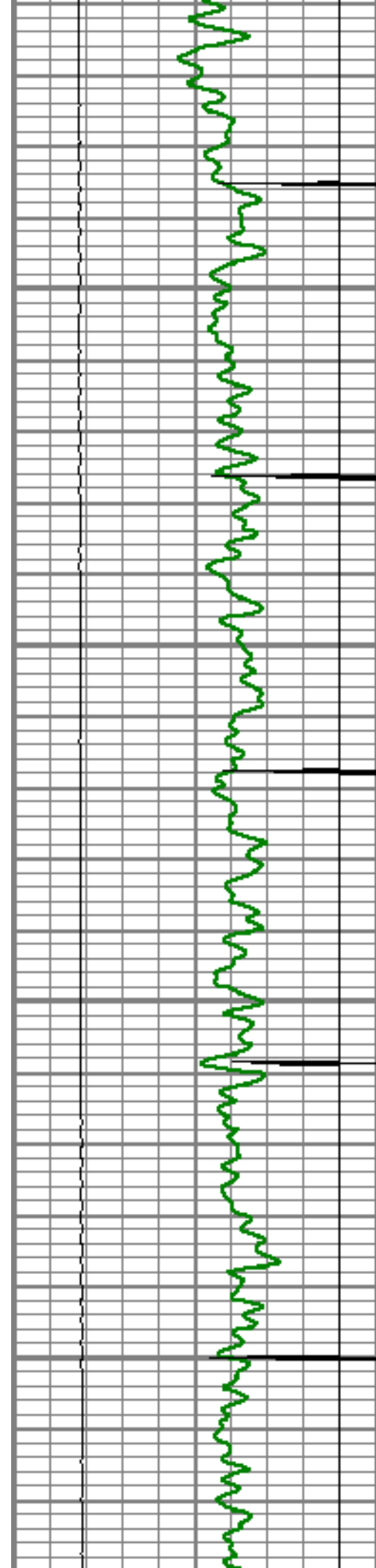
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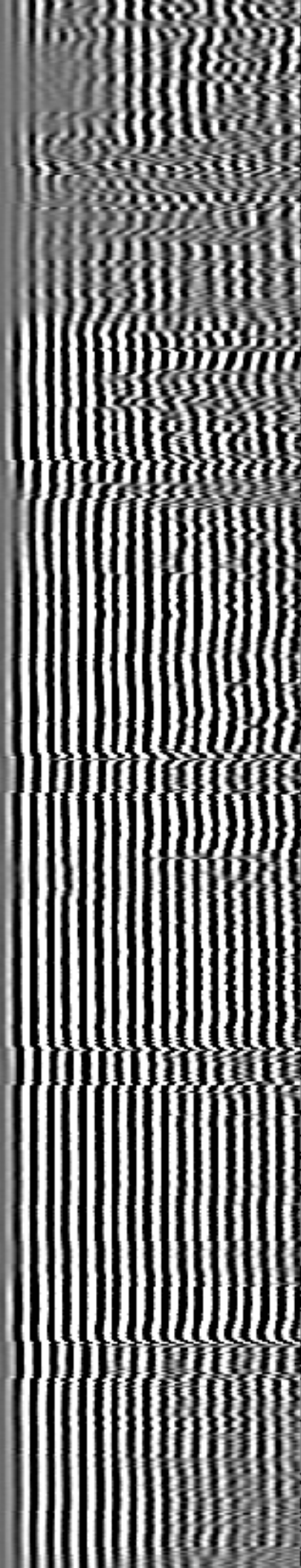
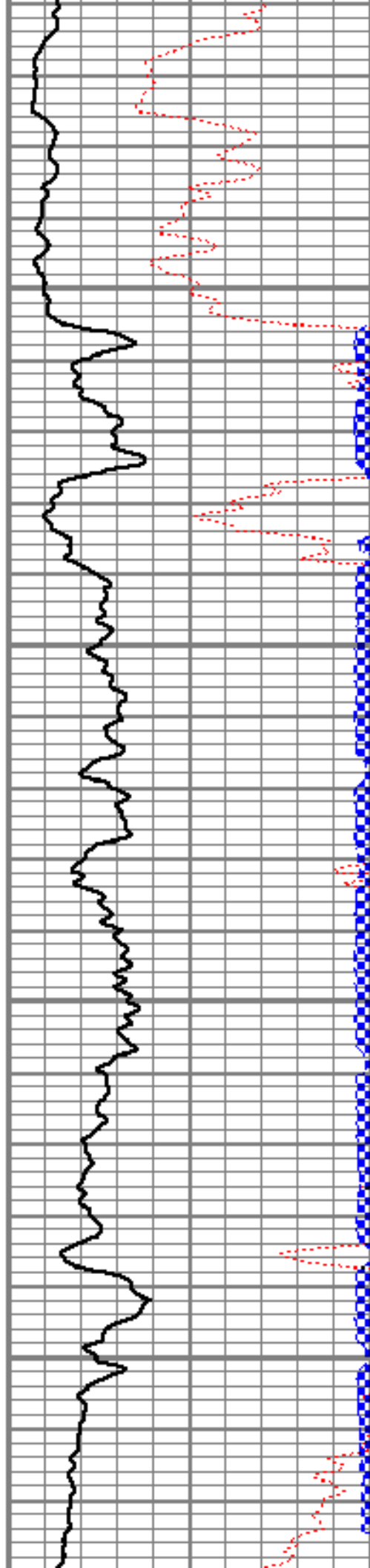


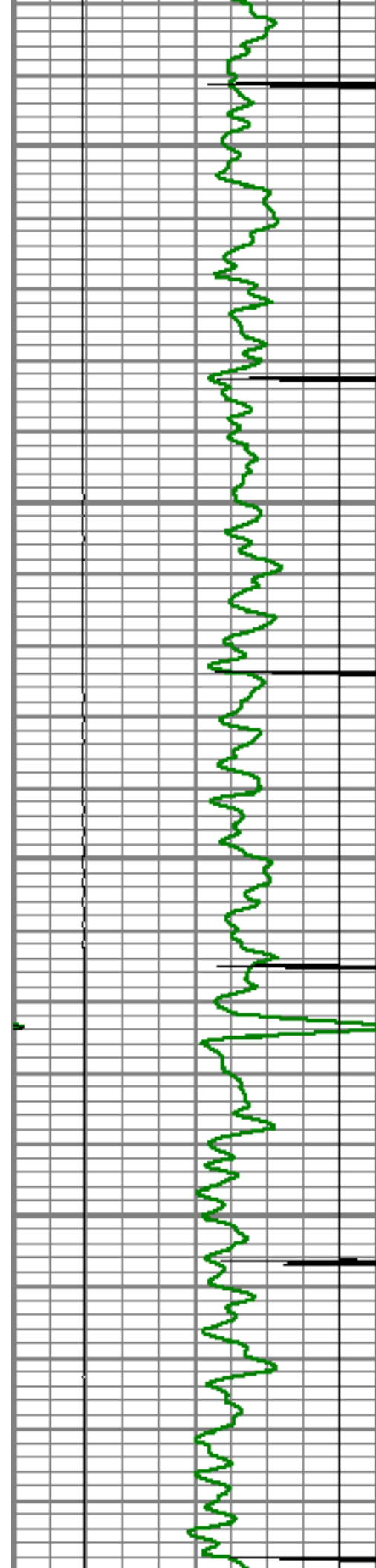
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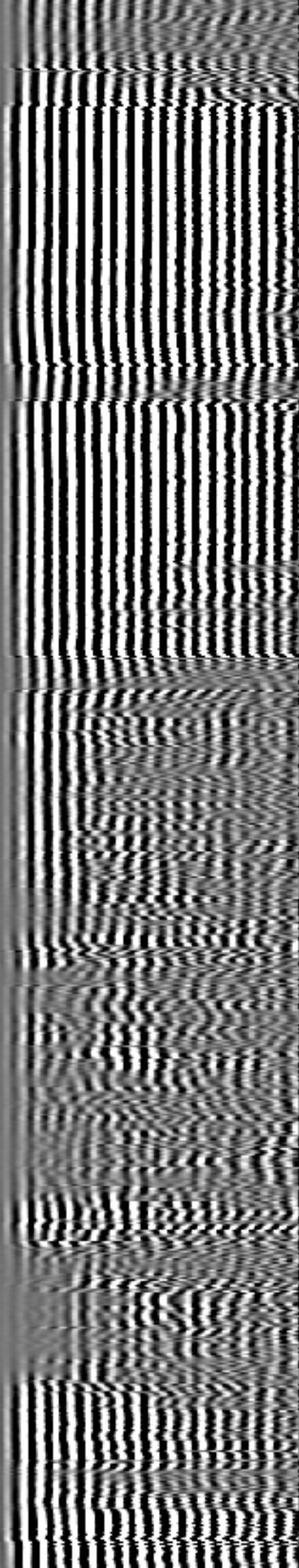
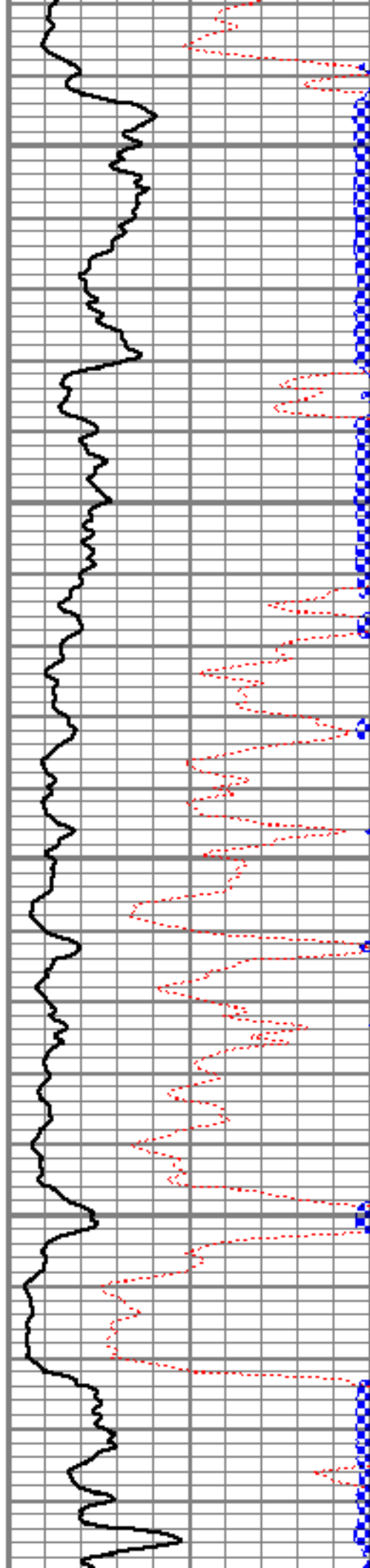
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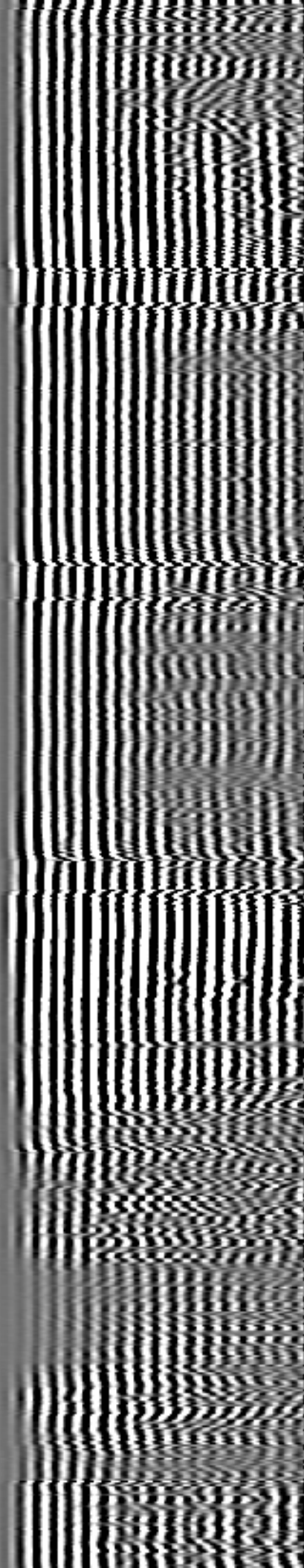
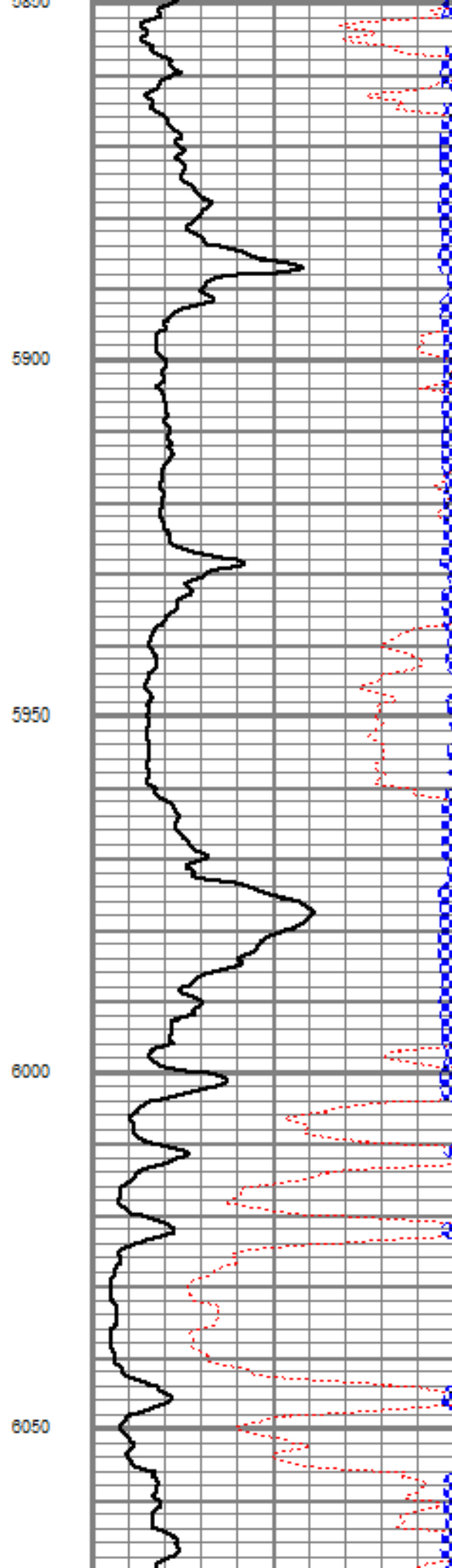
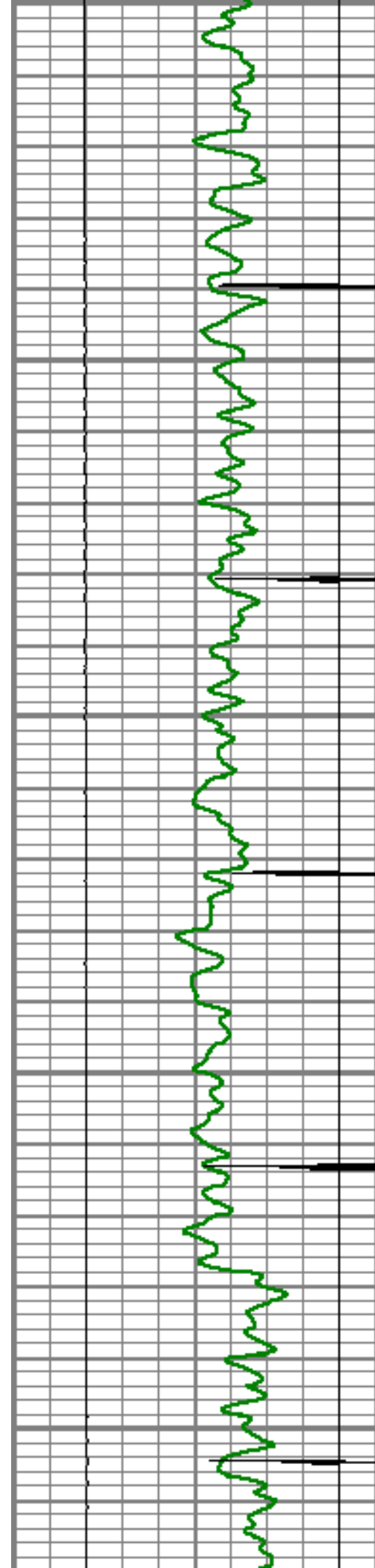
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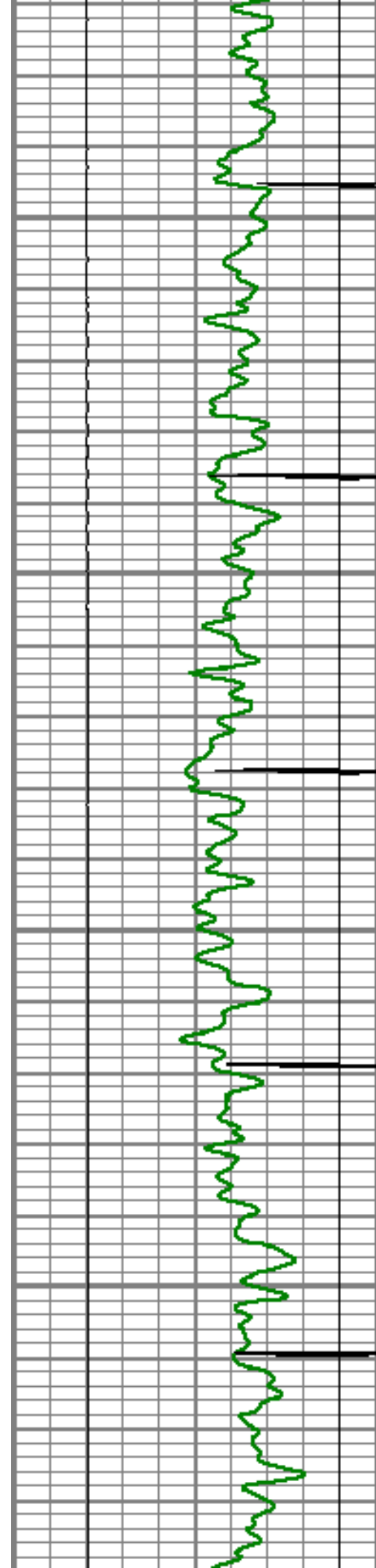
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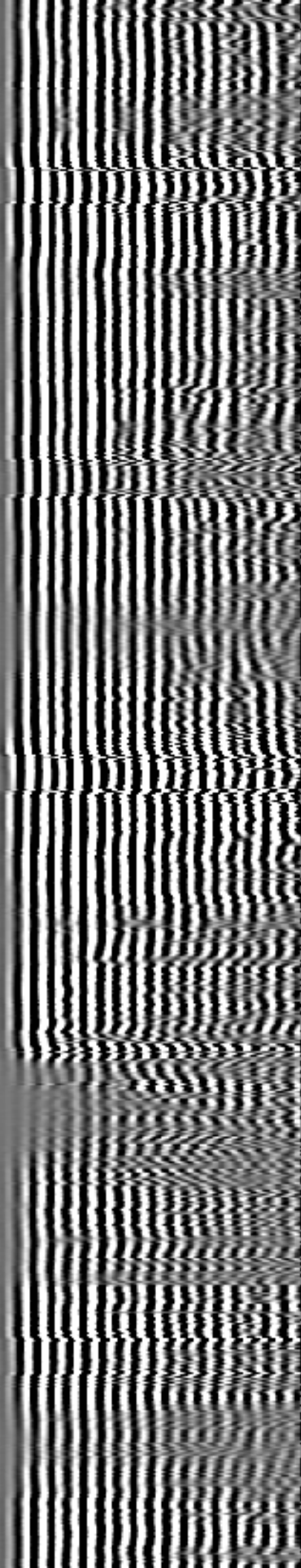
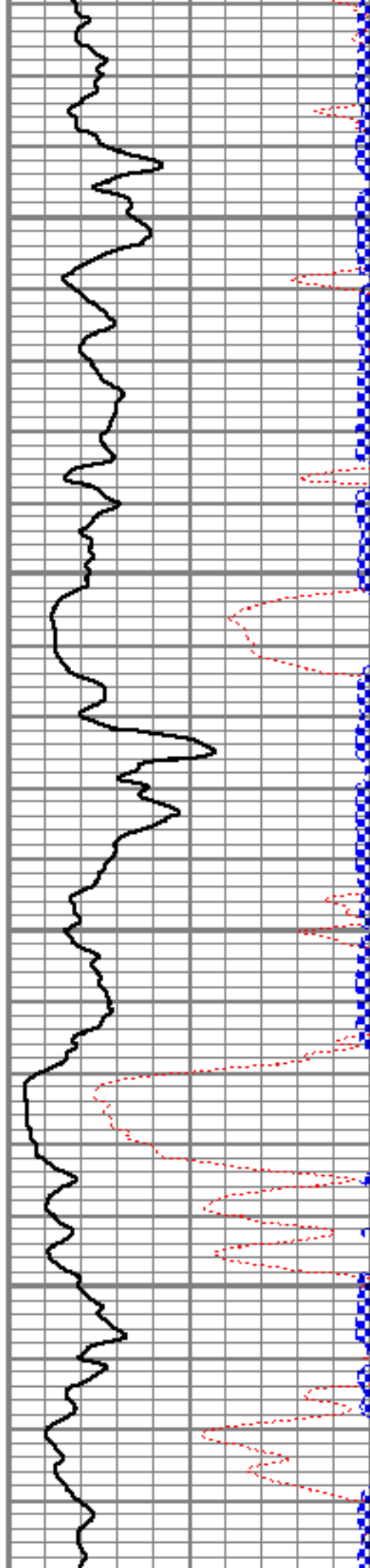


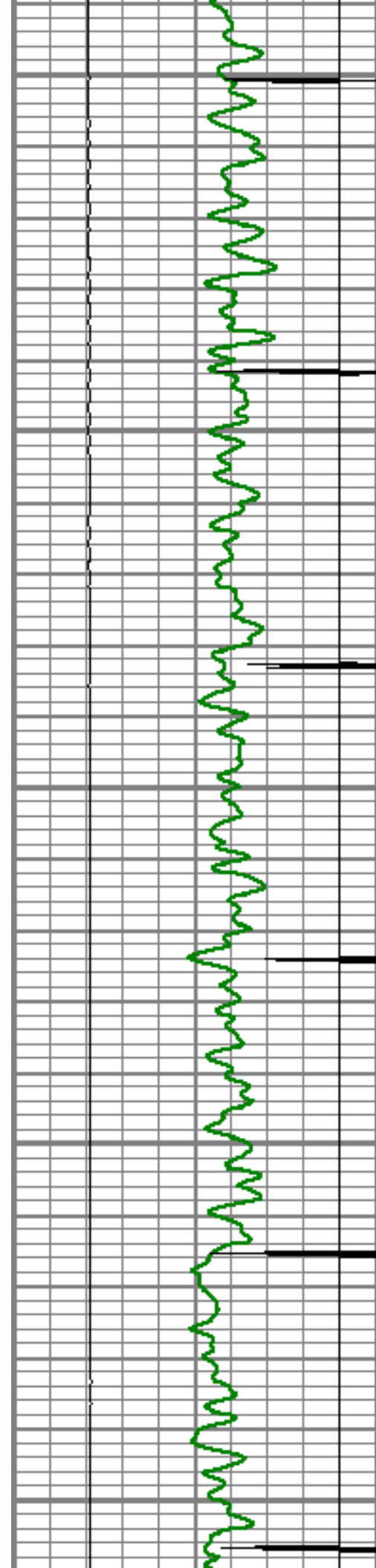
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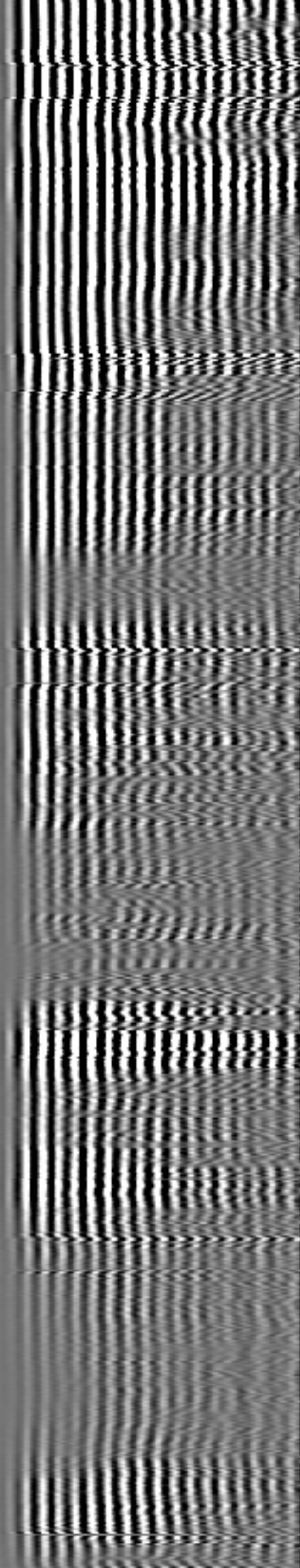
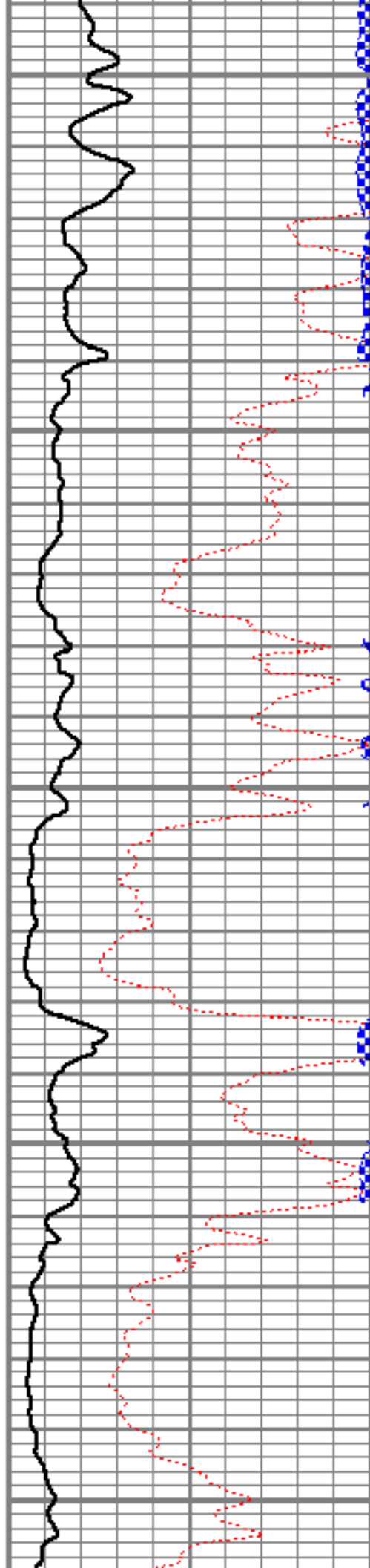
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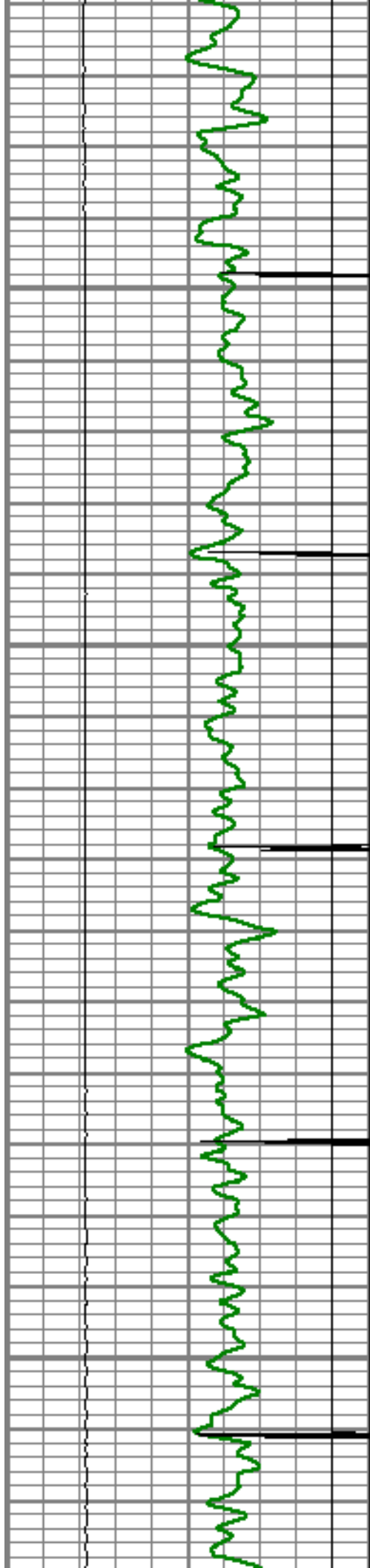
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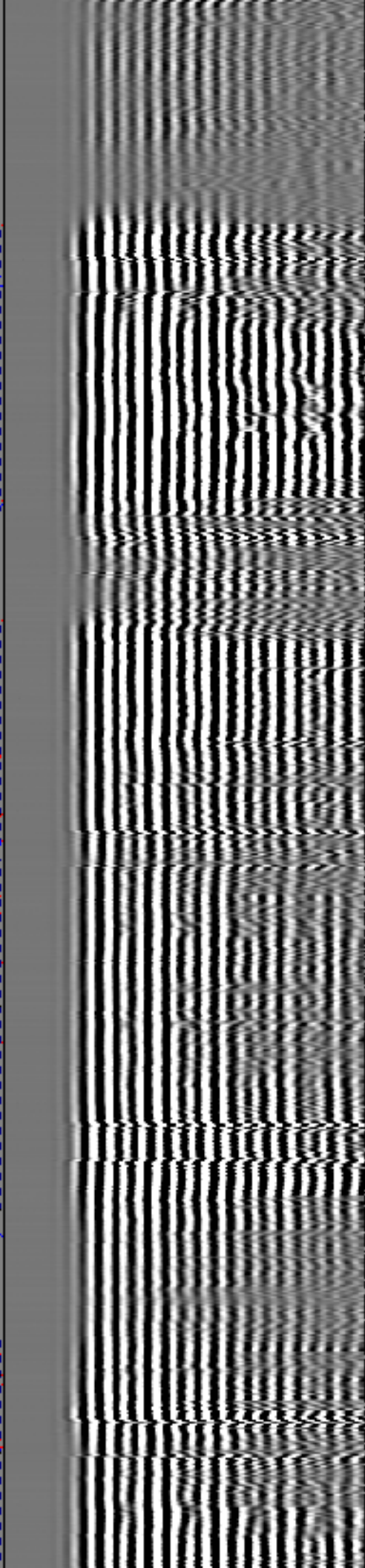
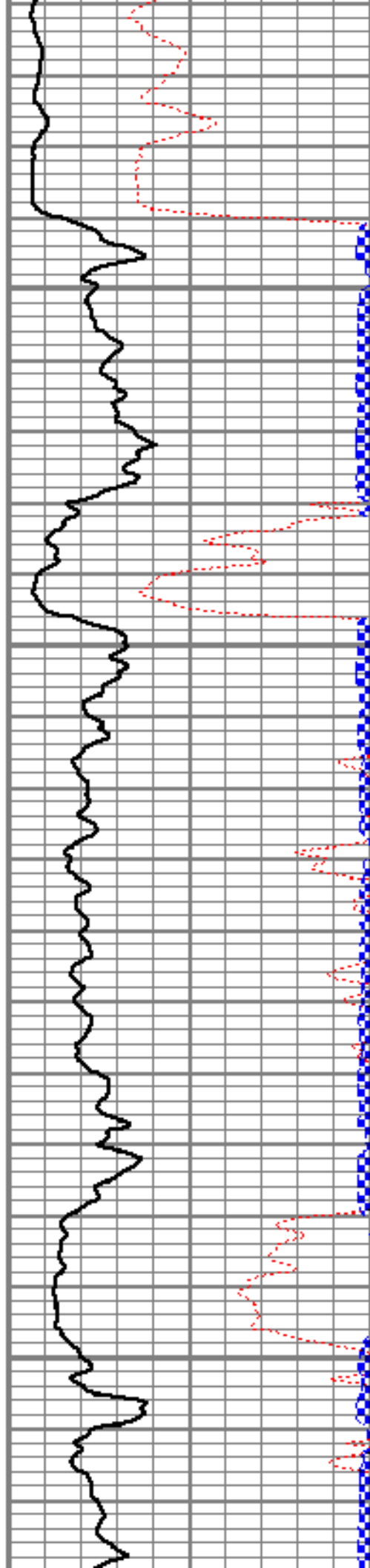


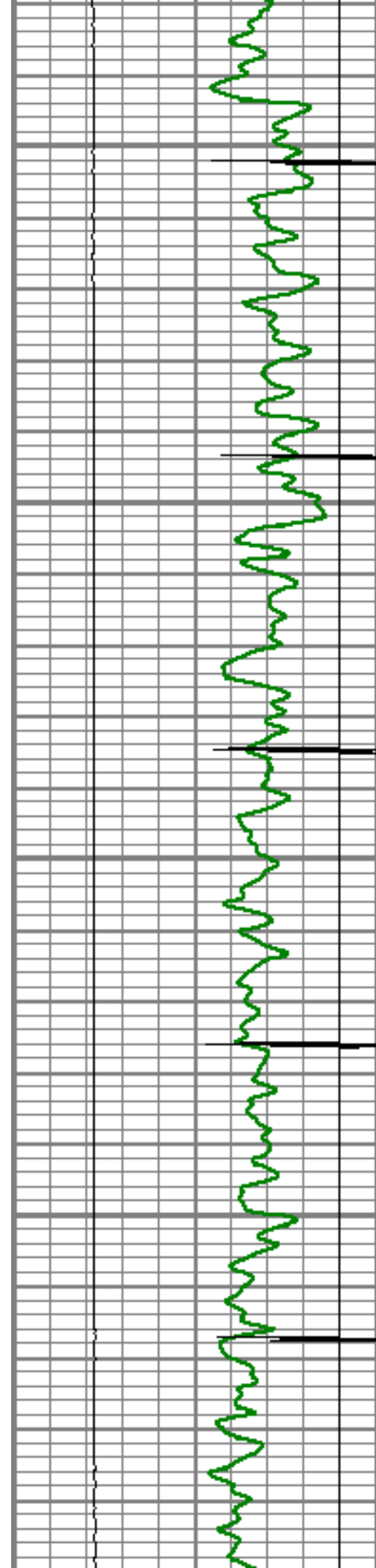
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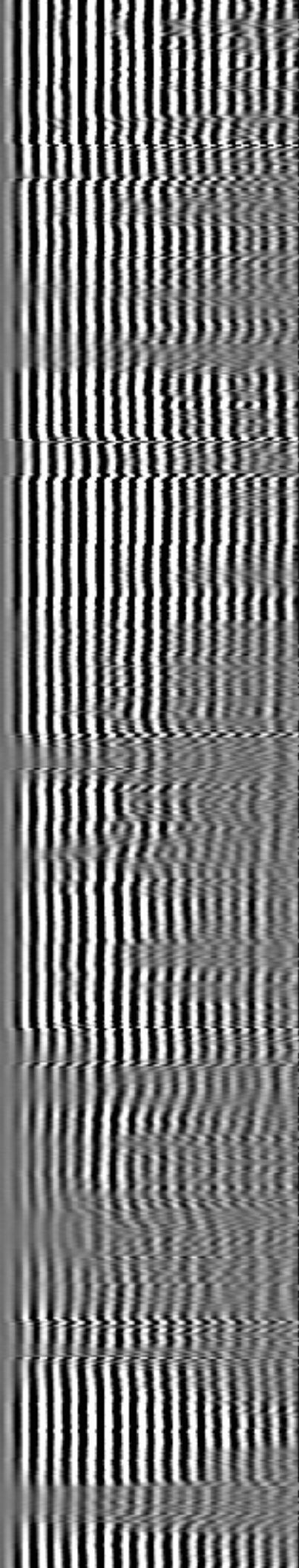
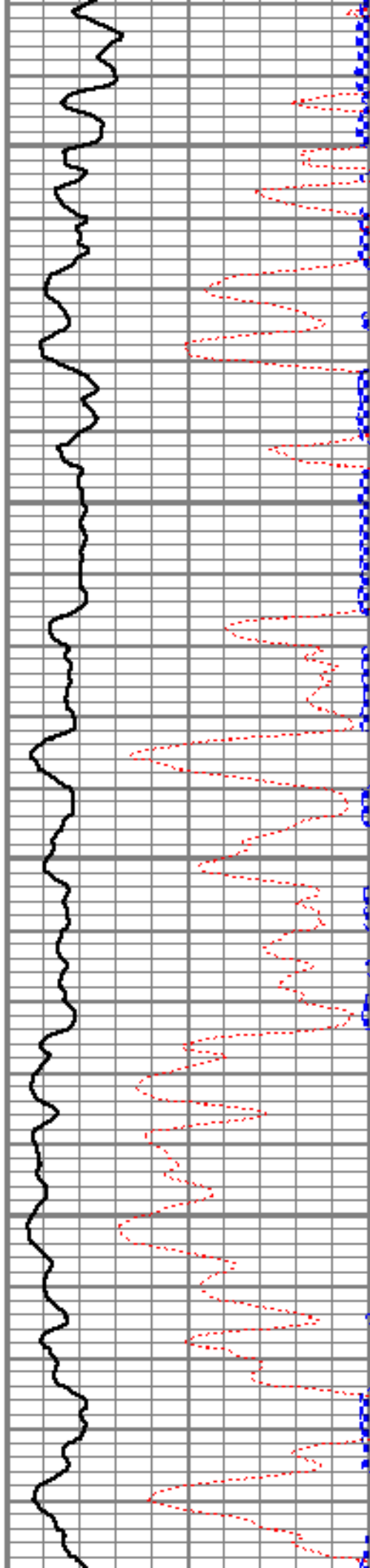
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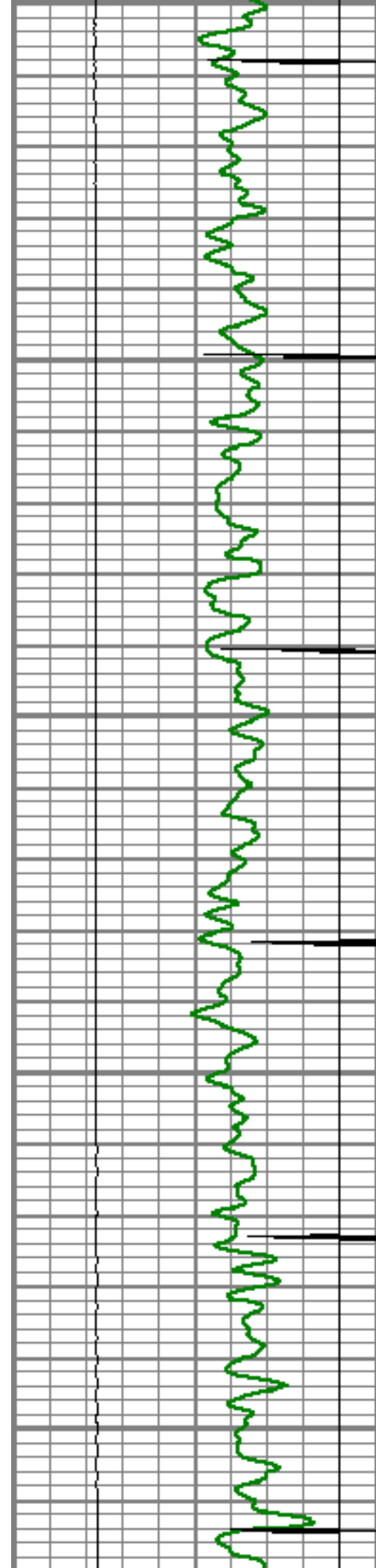
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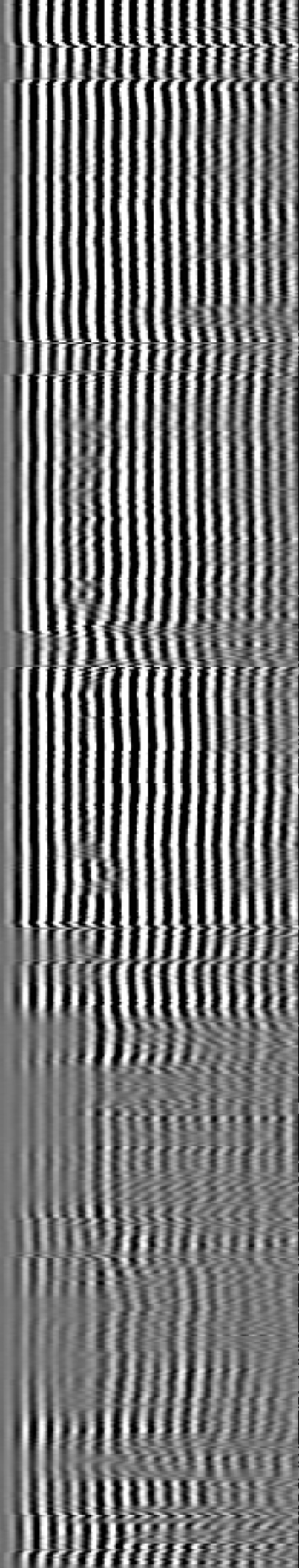
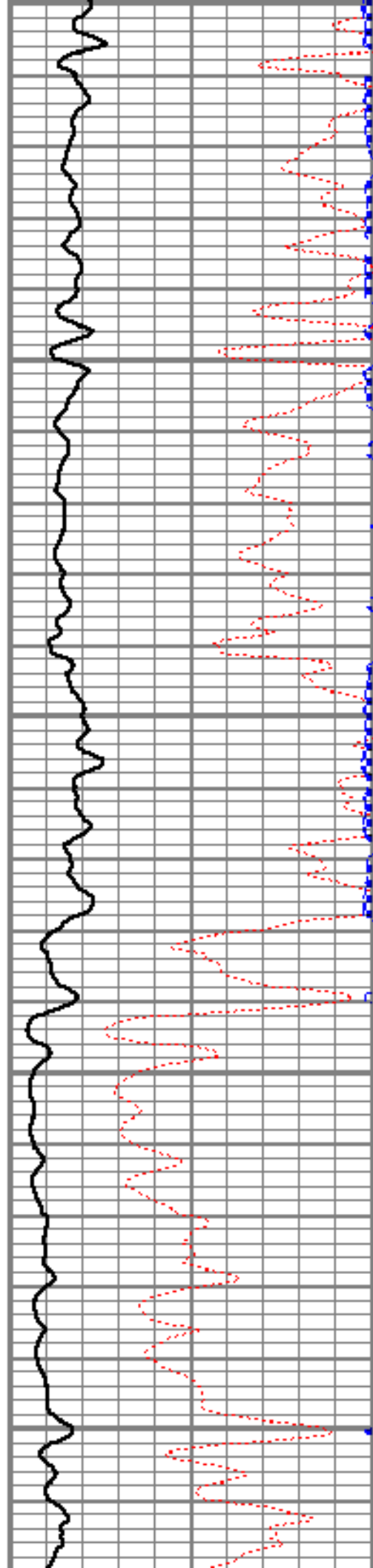
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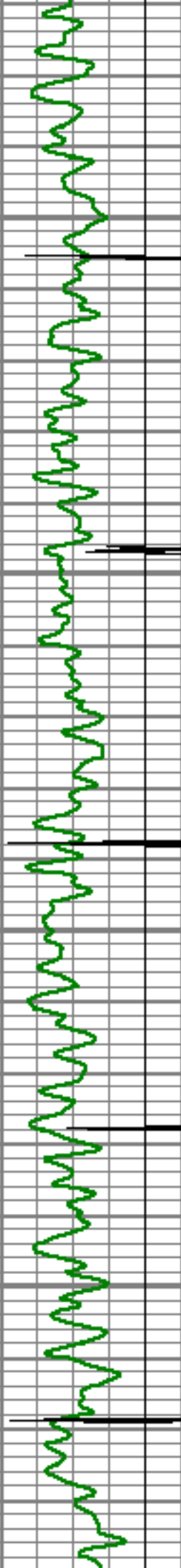
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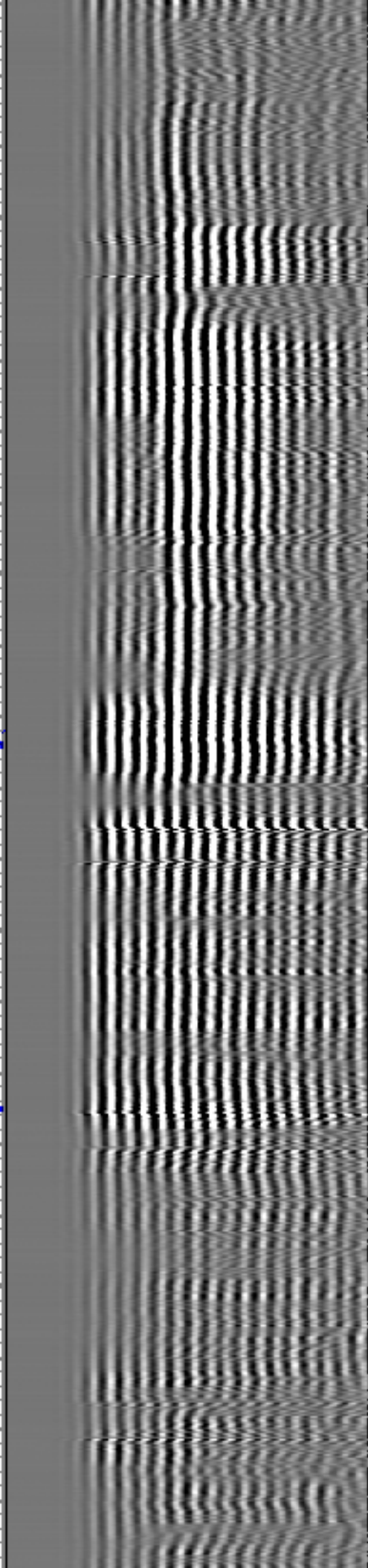
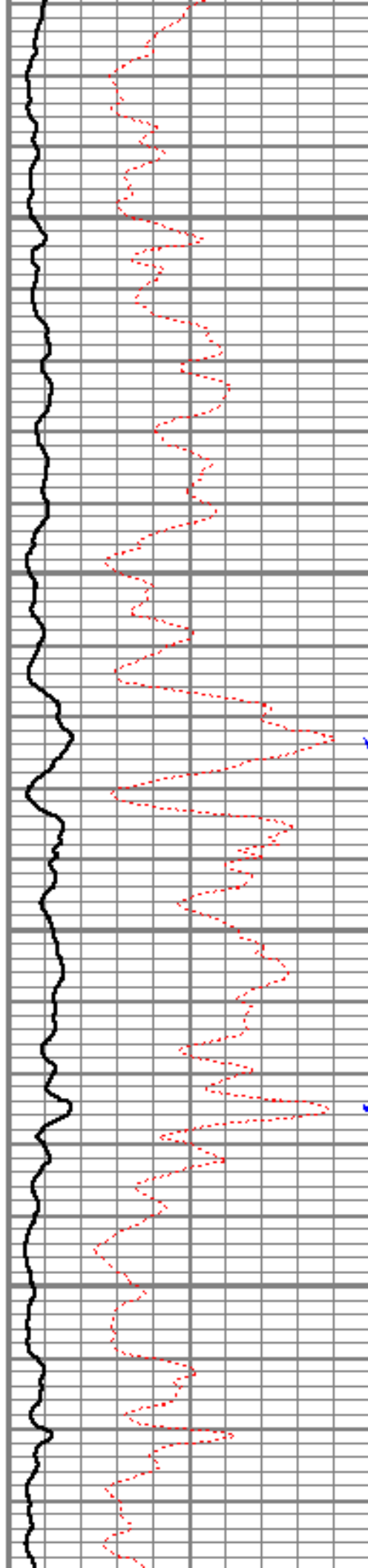


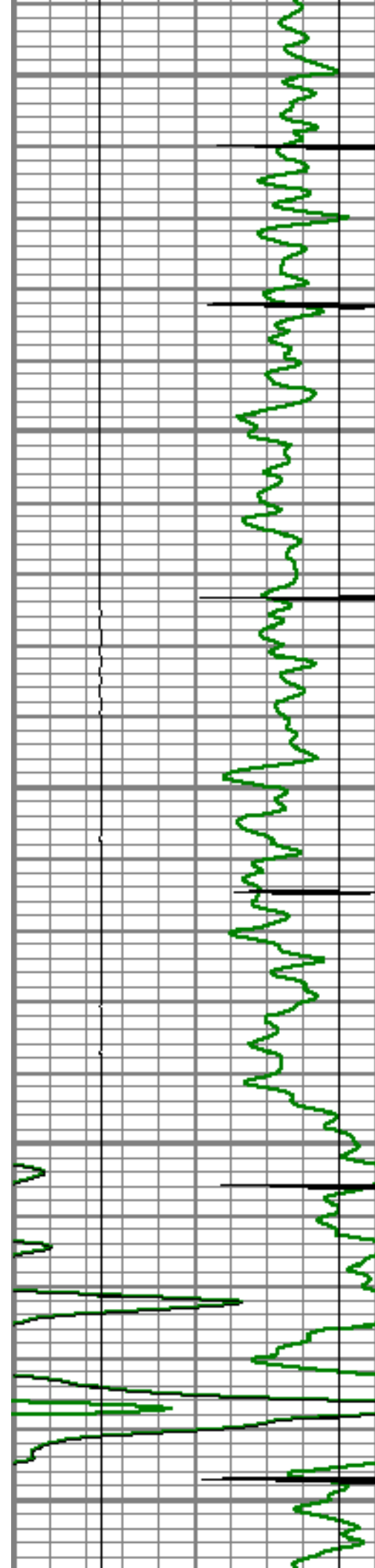
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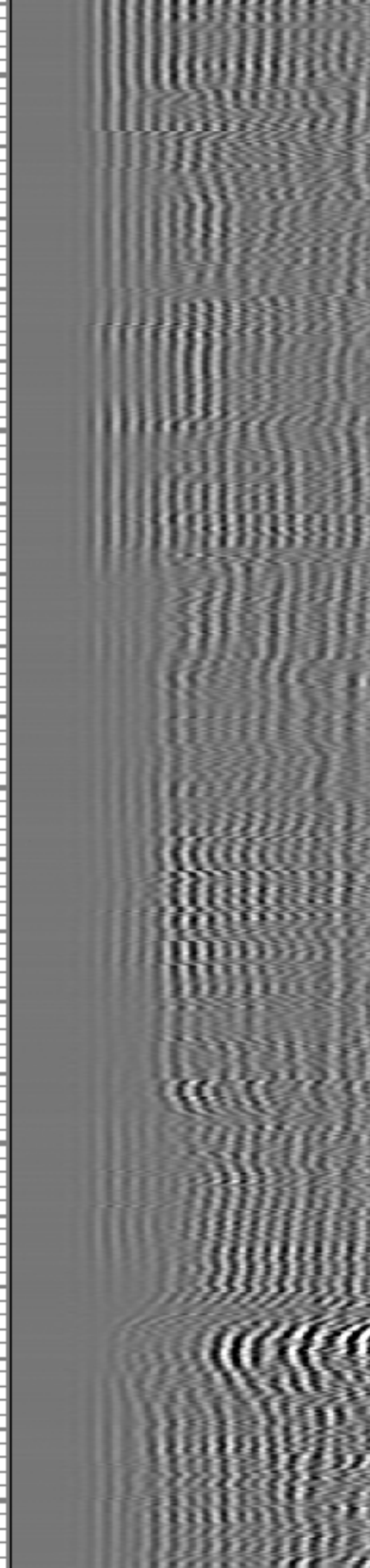
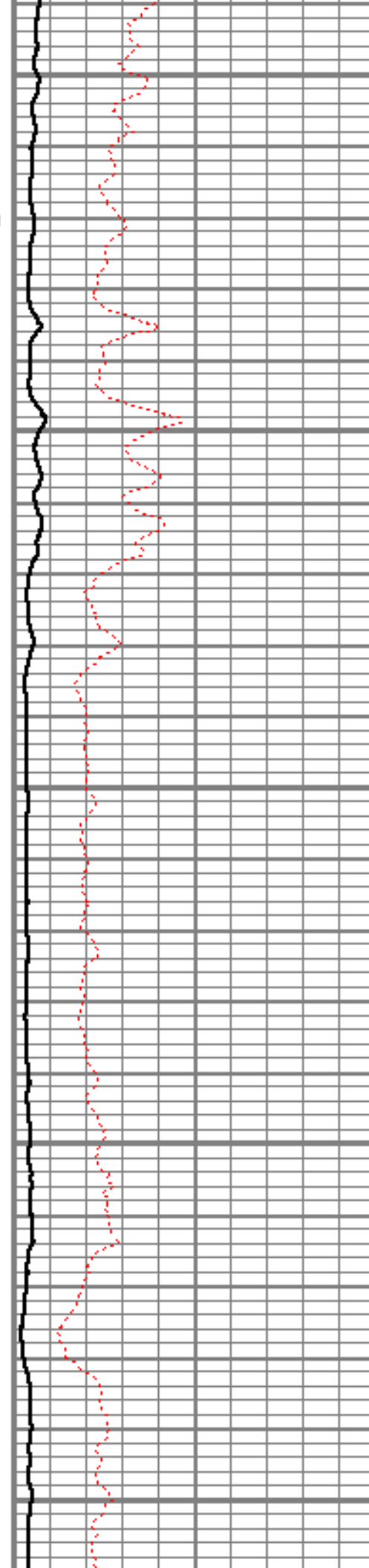
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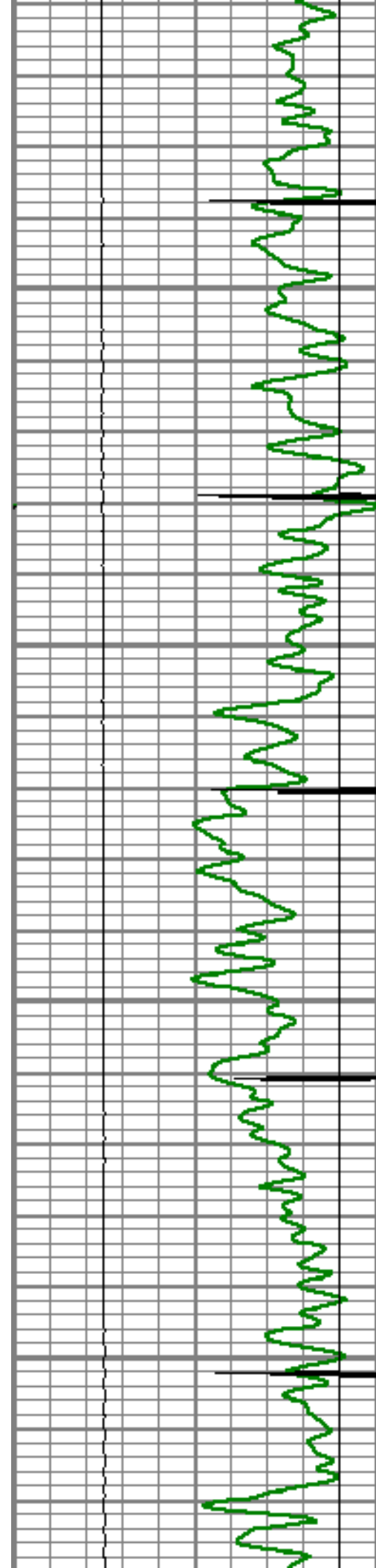
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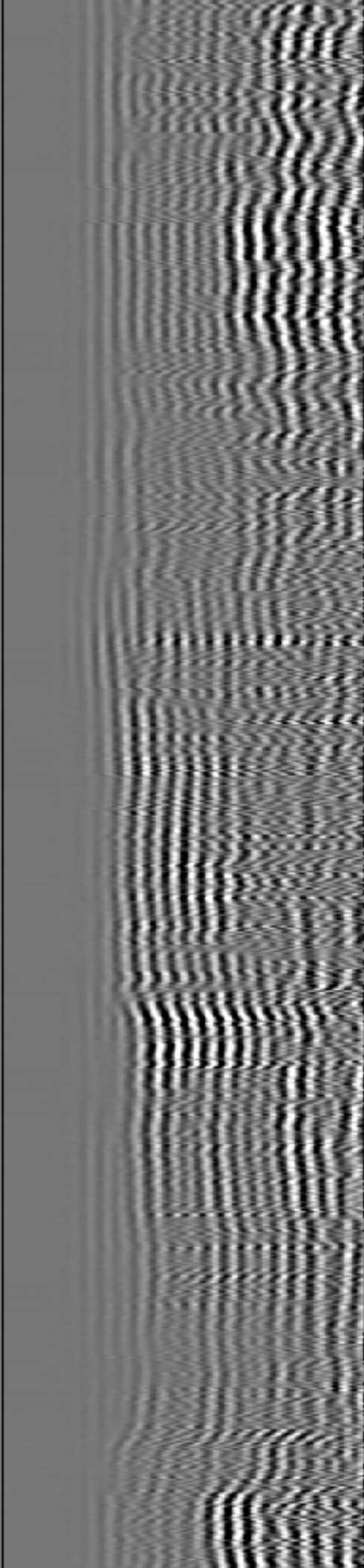
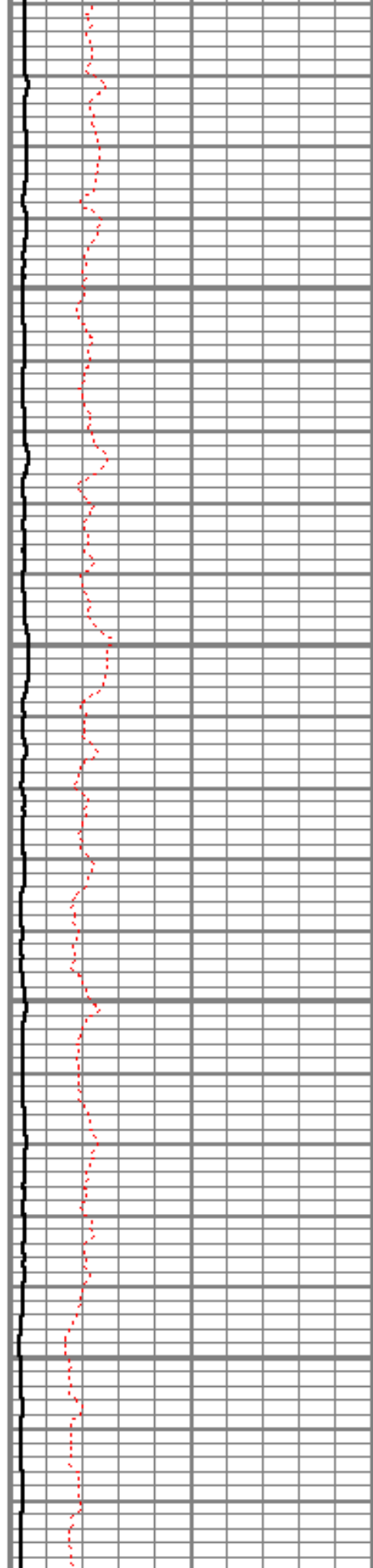


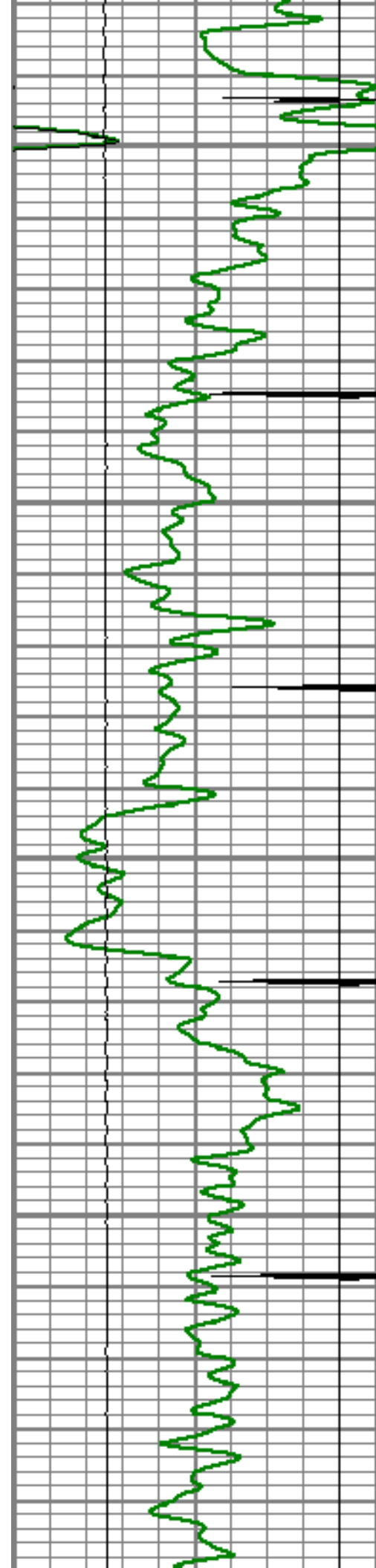
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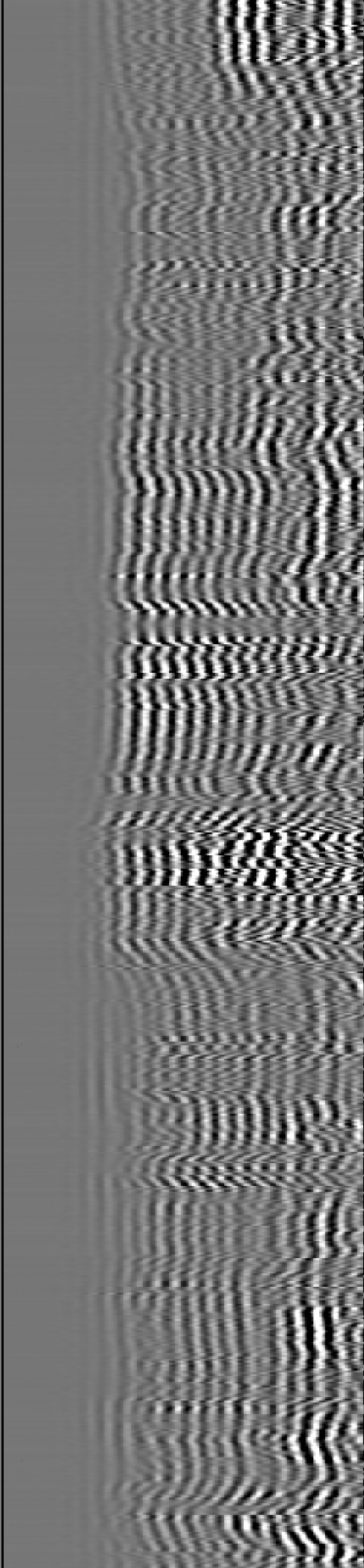
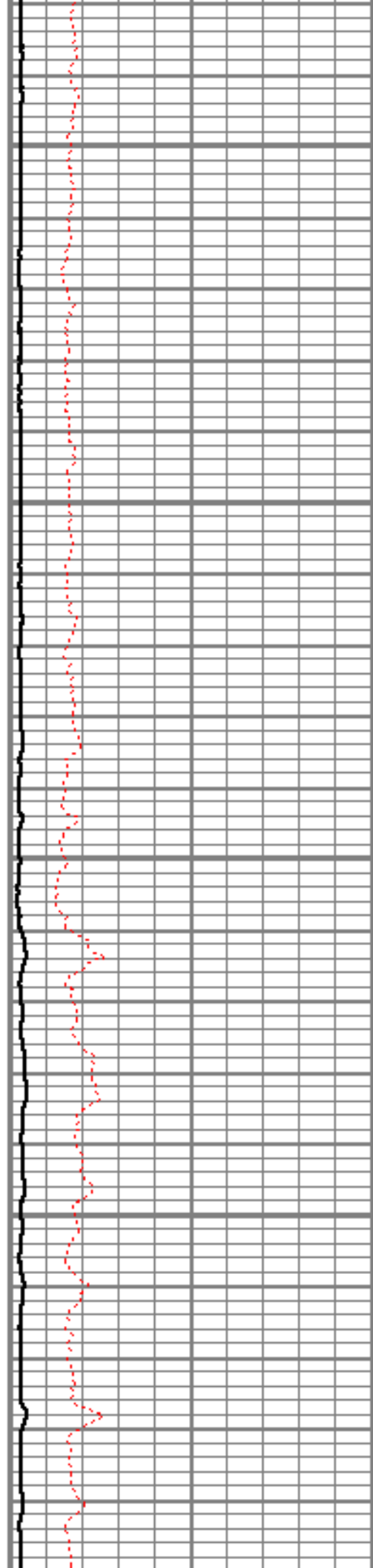
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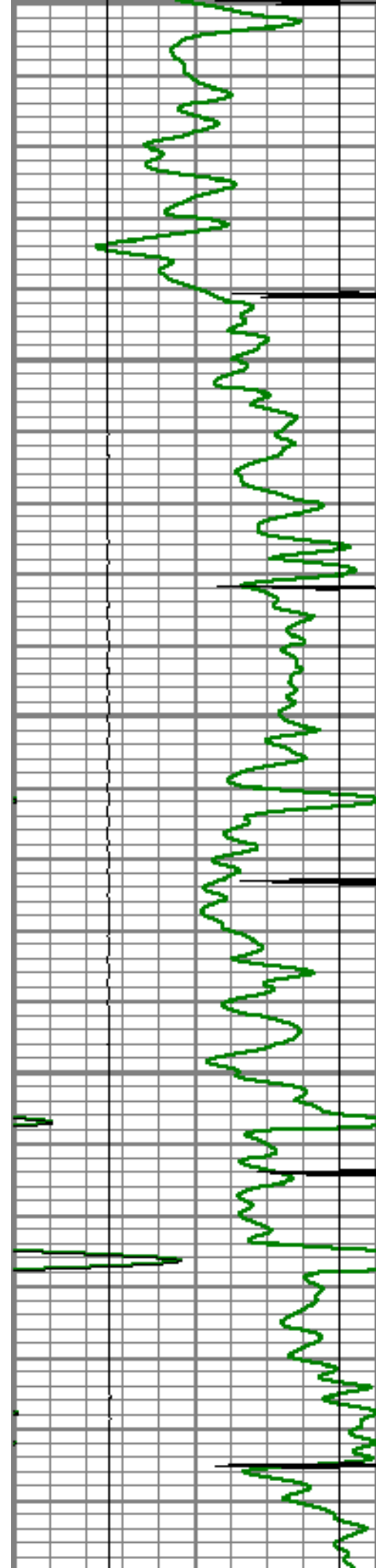
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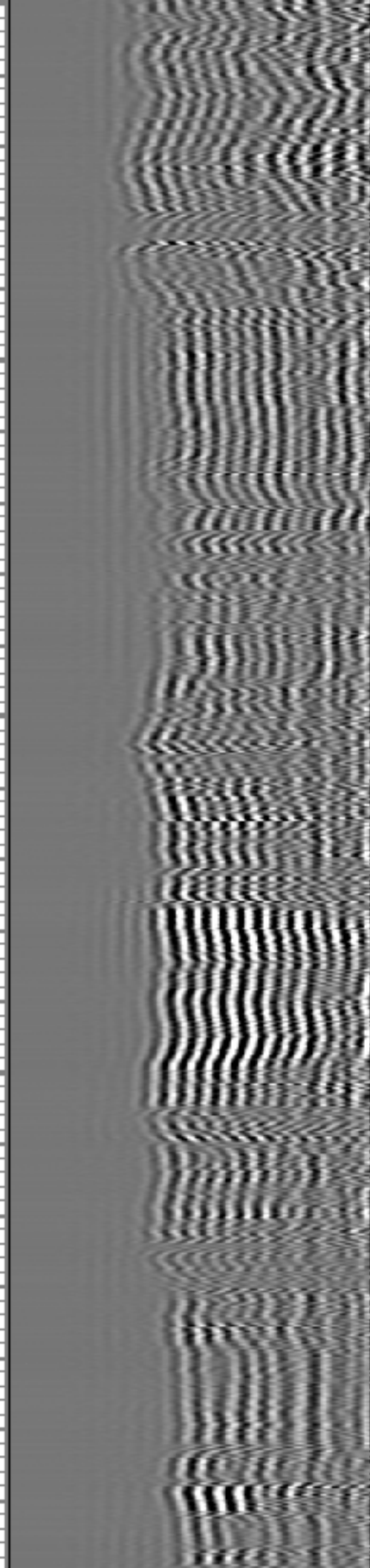
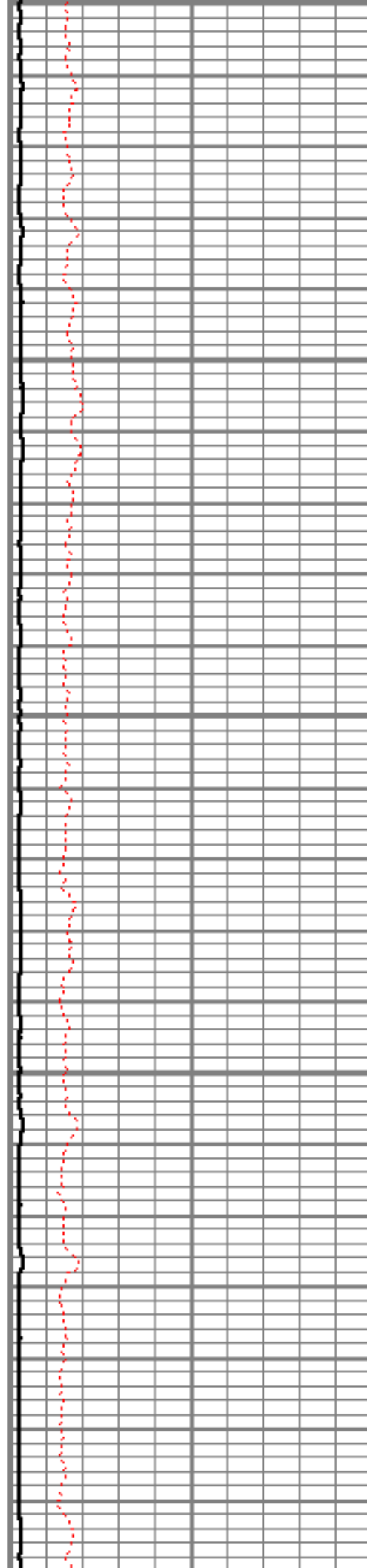
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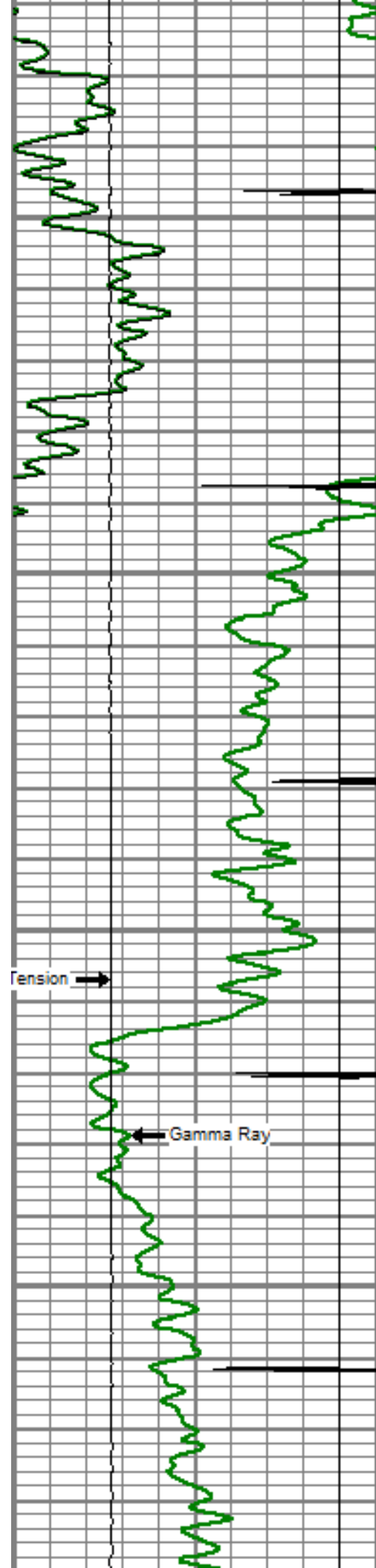
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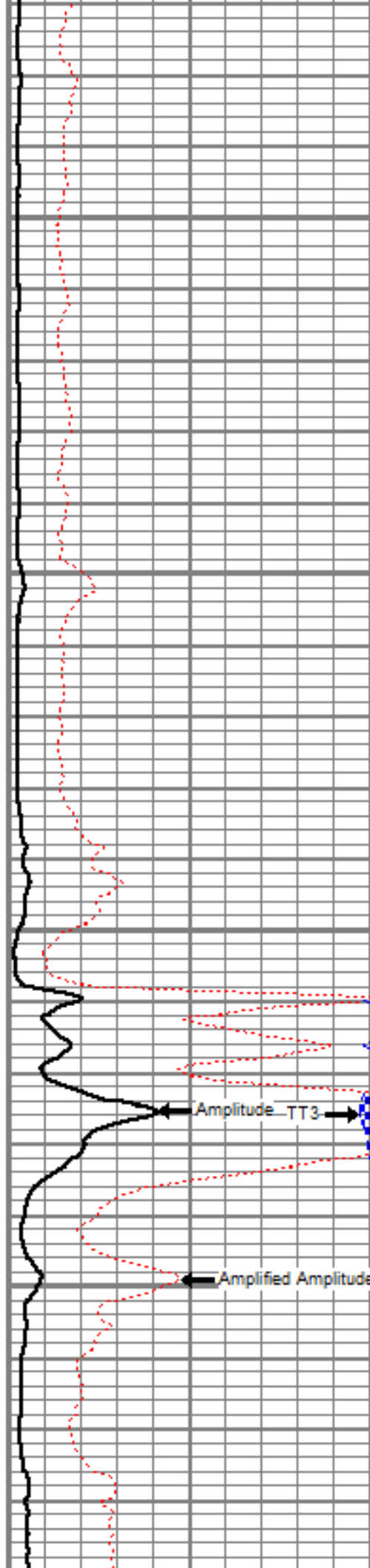
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Tension →

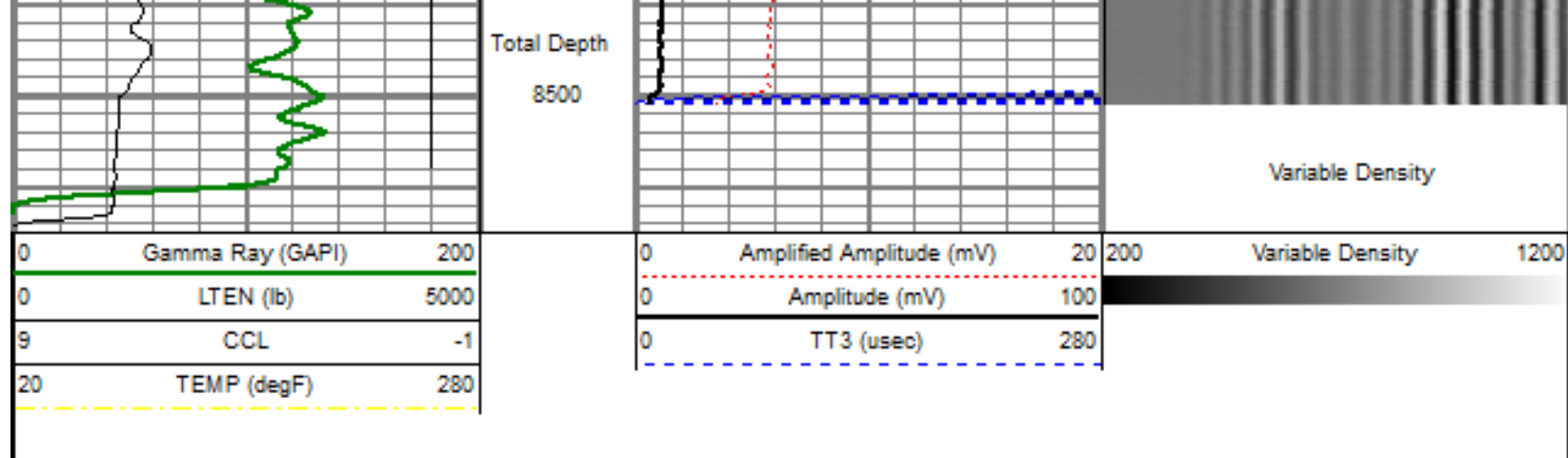
← Gamma Ray

← CCL




← Amplitude TT3 →

← Amplified 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	13.54		CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.77.1) Probe 2.75" Dual Receiver Bond	28.77	2.75	60.00
WVF5	12.54					
			Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer	2.88	2.75	10.00
CCL	5.50					
			CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.77.1) Probe 2.75" Dual Receiver Bond	28.77	2.75	60.00

GR	2.77		GR-PROBE_GROCL (PRB_GROCL_275) Probe 2.75" 4 Channel Pulse	014.34	2.75	30.00
TEMP	0.17		TEMP-1.375TEMP (11116HT) 1.375 Titan Temp Tool	1.88	1.40	30.00
Dataset: burycrandell 31-23.db: field/well/run1/PASSOH Total Length: 21.98 ft Total Weight: 141.50 lb O.D. 2.75 in						

	Company	ENCANA OIL & GAS (USA)
	Well	BURY CRANDELL 31-23
	Field	WATTENBERG
	County	BROOMFIELD
	State	COLORADO