

CEMENT BOND LOG



Mesa Wireline

Company ENCANA OIL & GAS (USA)		Company ENCANA OIL & GAS (USA)	
Well FLANIGAN 1C-6H		Well FLANIGAN 1C-6H	
Field WATTENBERG		Field WATTENBERG	
County WELD		County WELD	
State COLORADO		State COLORADO	
Location:		API #: 05-123-35693-0000	
SHL: 216' FNL & 1173' FEL		Other Services	
BHL: 460' FSL & 1525' FEL		NONE	
SEC: 6 TWP: 1N RGE: 64W		Elevation	
Permanent Datum GROUND LEVEL		K.B. 5029'	
Log Measured From KELLY BUSHING = 13'		D.F. 5030'	
Drilling Measured From KELLY BUSHING		G.L. 5016'	

Date	31 AUG 2012
Run Number	ONE
Depth Driller	7405'
Depth Logger	7180'
Bottom Logged Interval	7156'
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Density / Viscosity	~8.34 LBS/GAL
Max. Recorded Temp.	234 DegF
Estimated Cement Top	2600'
Time Well Ready	18:15
Time Logger on Bottom	19:45
Equipment Number	10801W / PB02
Location	AULT. CO
Recorded By	B. MAYNARICH
Witnessed By	R. BORNER

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	0	1300'	N/A			
TWO	8.75"	0	7405'				

Casing Record			
Surface String	Size	Wd/Ft	Top
	9.625"	40#	0
Prot. String			
	7"	26#	0
Production String			
			7391'
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

NO OTHER LOG AVAILABLE TO CORRELATE TO.
ON THE REPEAT PASS, THE TOOL WAS ABLE TO GET TO A DEPTH OF 7180'. ON THE MAIN PASS, THE TOOL WAS ONLY ABLE TO GET TO A DEPTH OF 7156'.

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

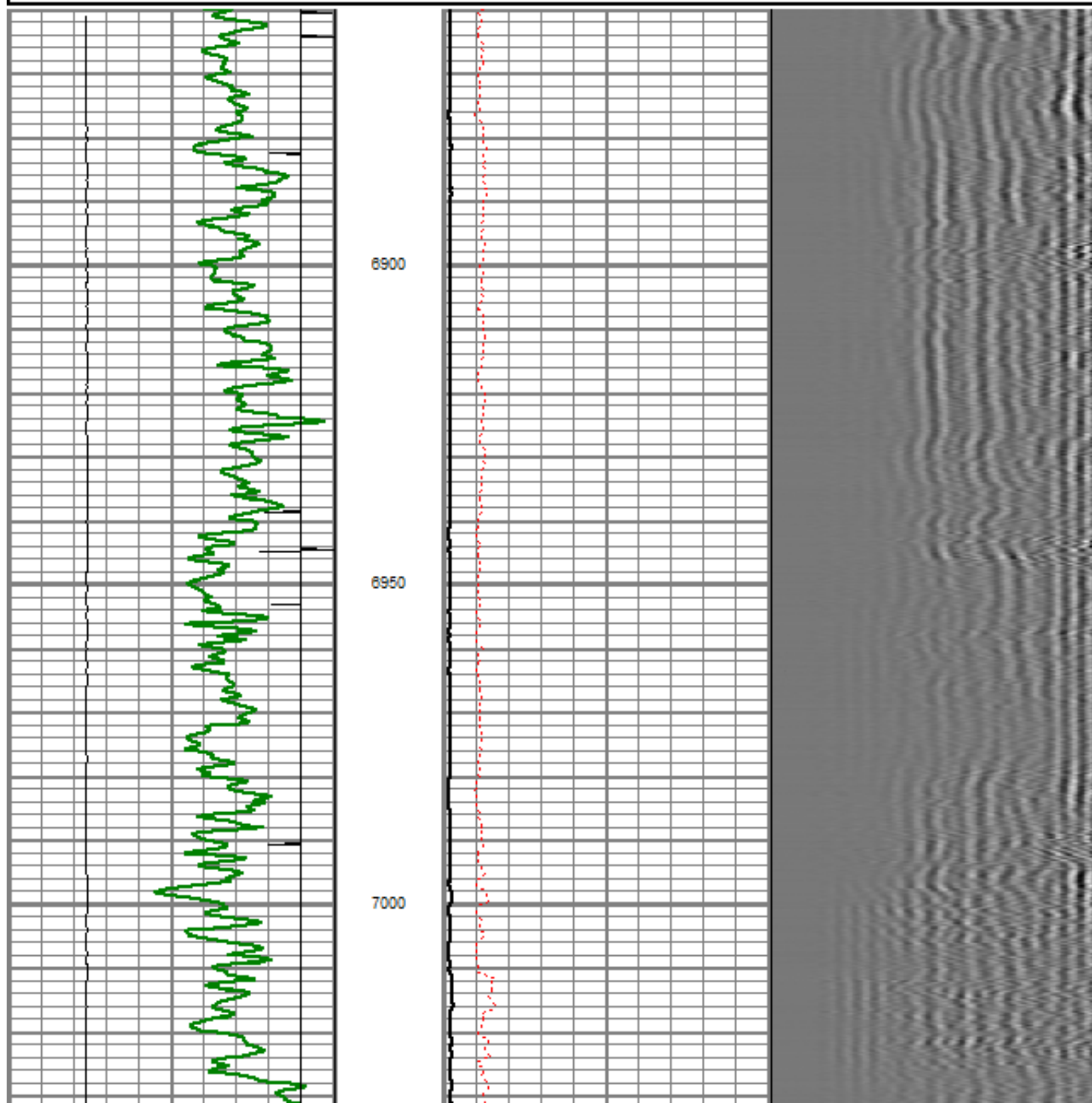


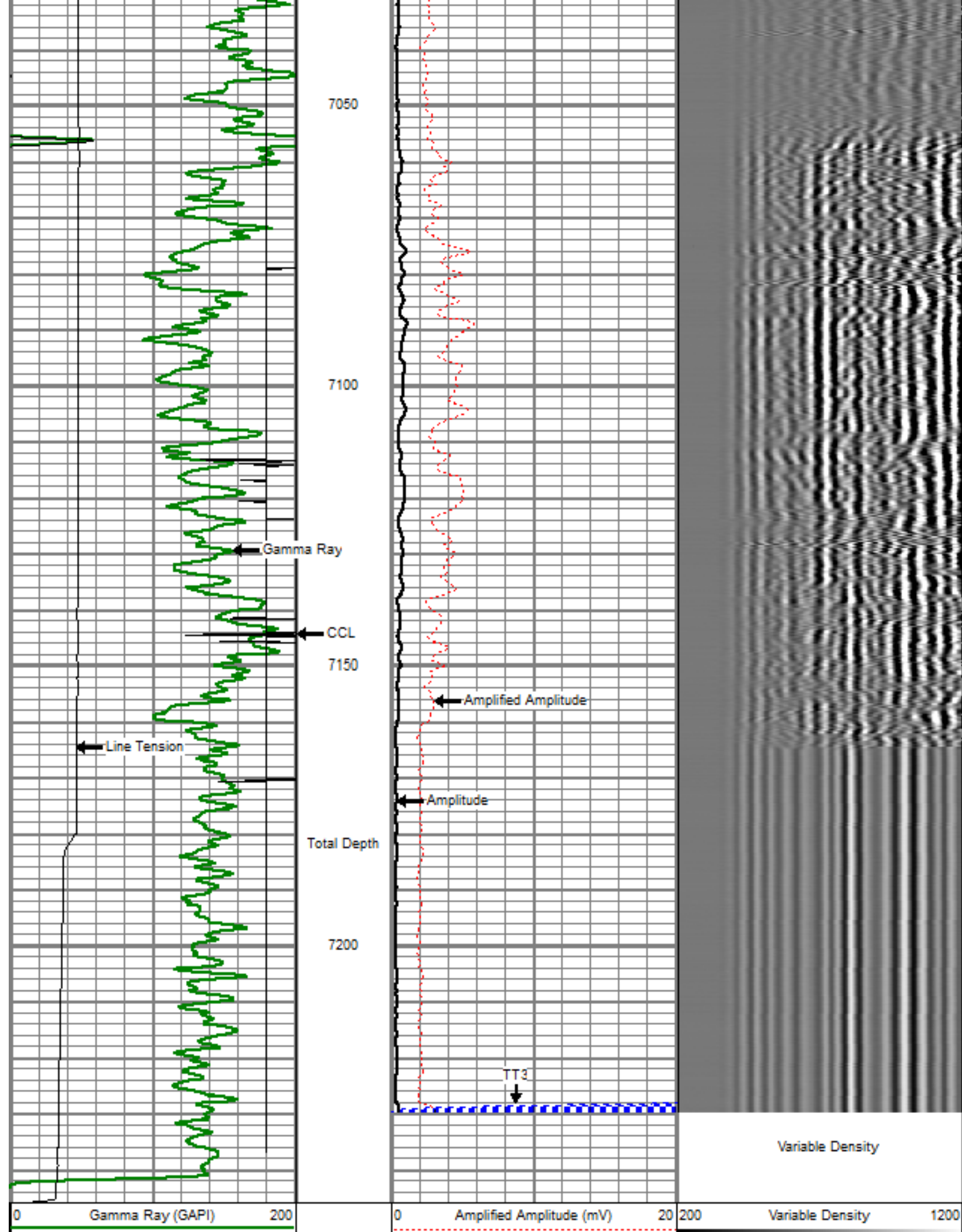
REPEAT PASS

Database File: flanigan.db
Dataset Pathname: pass6
Presentation Format: dobl_prb
Dataset Creation: Fri Aug 31 19:52:54 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

0	Amplified Amplitude (mV)	20	200	Variable Density	1200
0	Amplitude (mV)	100			
0	TT3 (usec)	330			





0	LTEN (lb)	5000
9	CCL	-1

0	Amplitude (mV)	100
0	TT3 (usec)	330



MAIN PASS

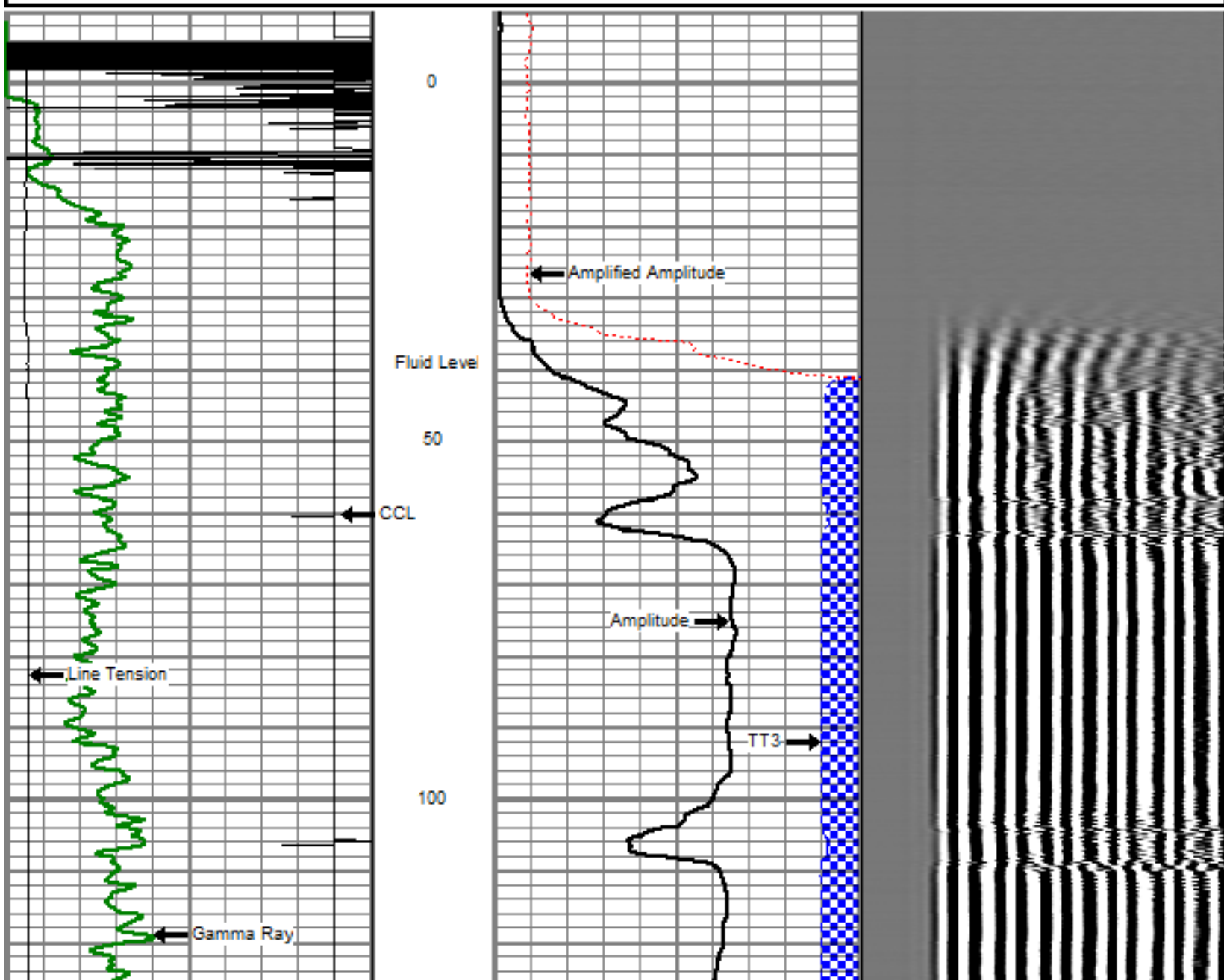
5" = 100'

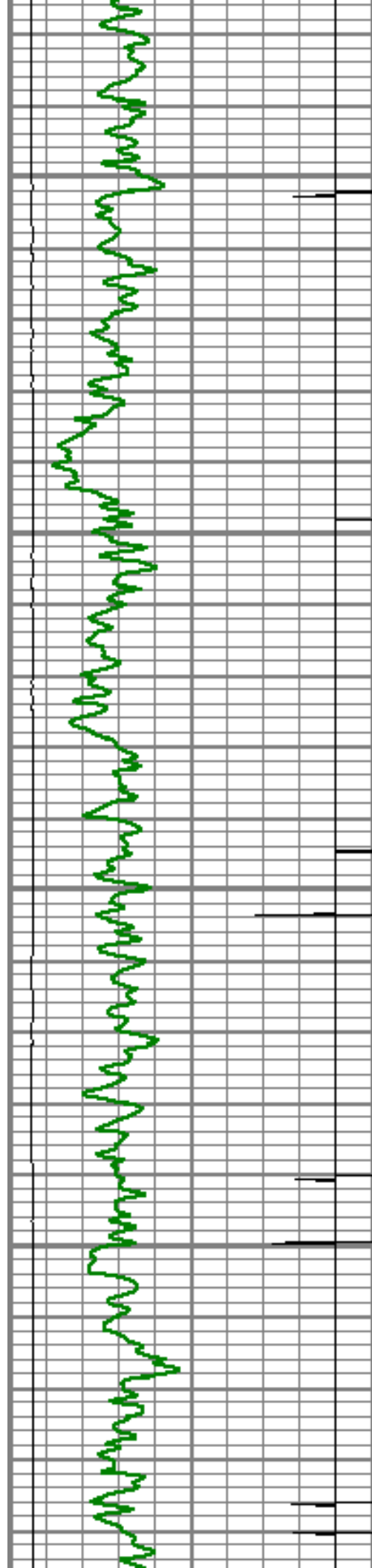
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0	Gamma Ray (GAPI)	200
0	LTEN (lb)	5000
9	CCL	-1

0	Amplified Amplitude (mV)	20
0	Amplitude (mV)	100
0	TT3 (usec)	330

200 Variable Density 1200



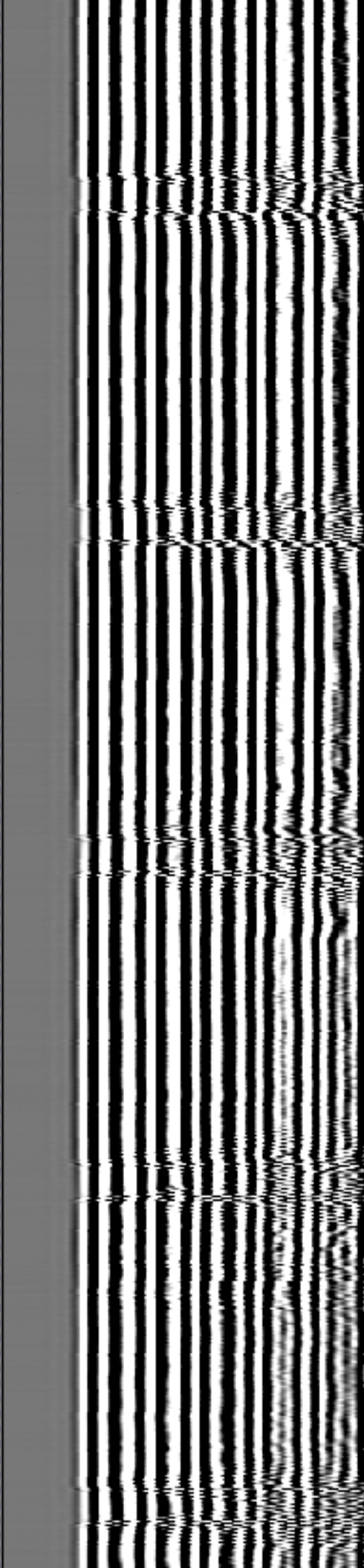
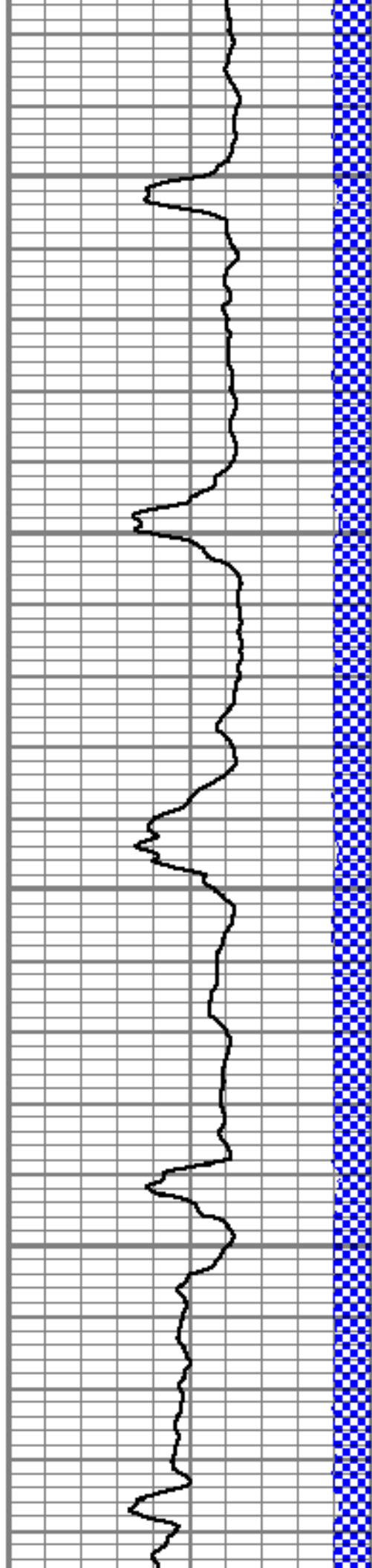


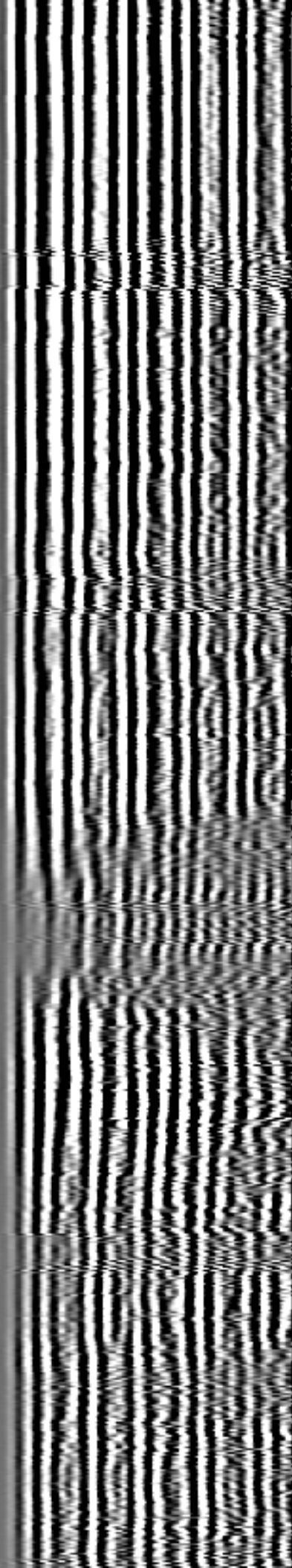
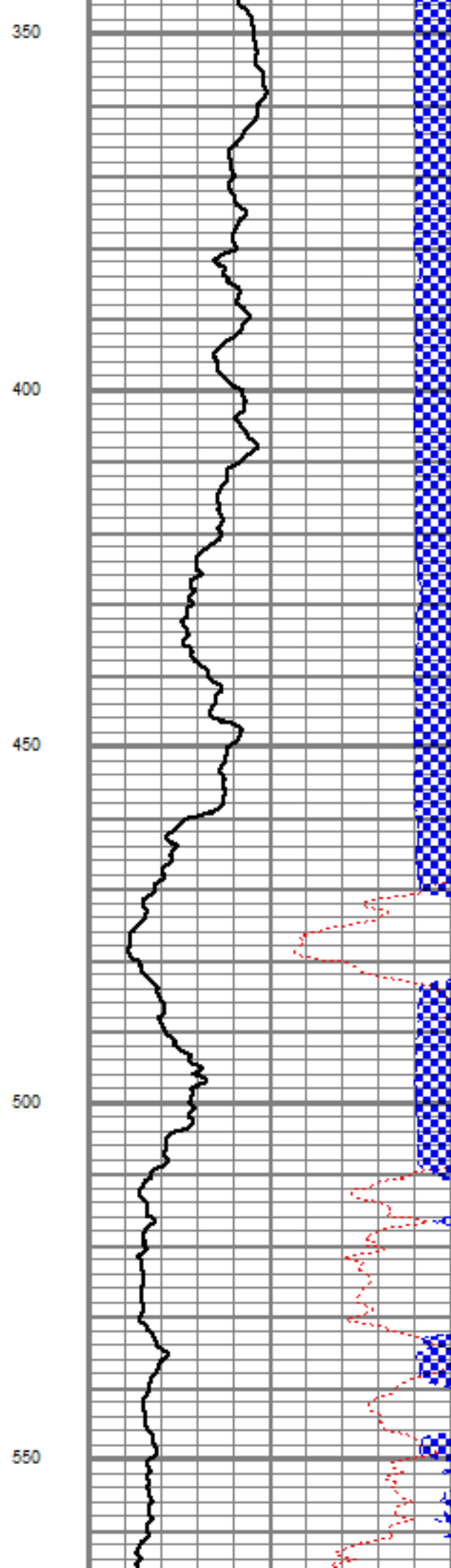
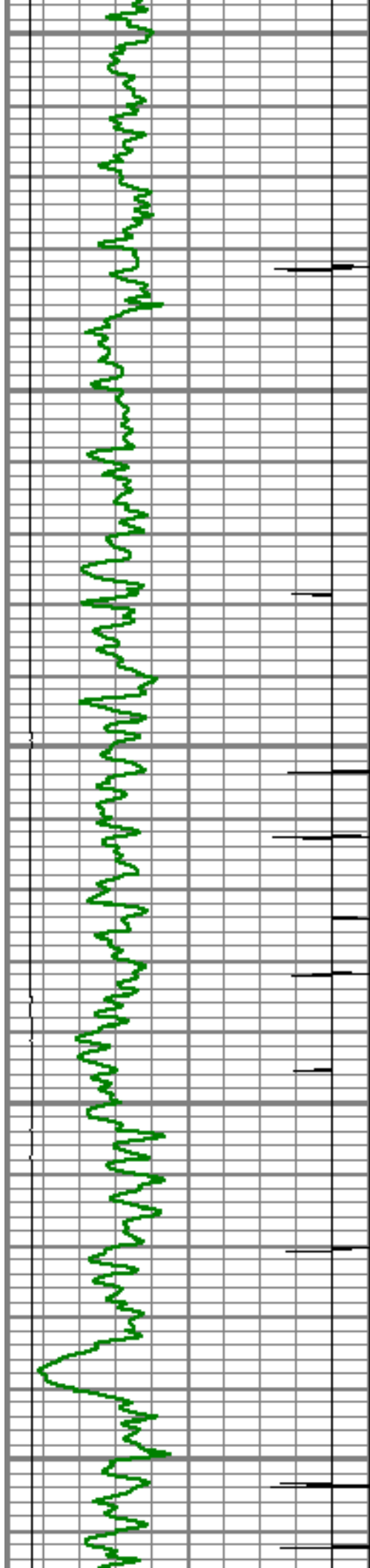
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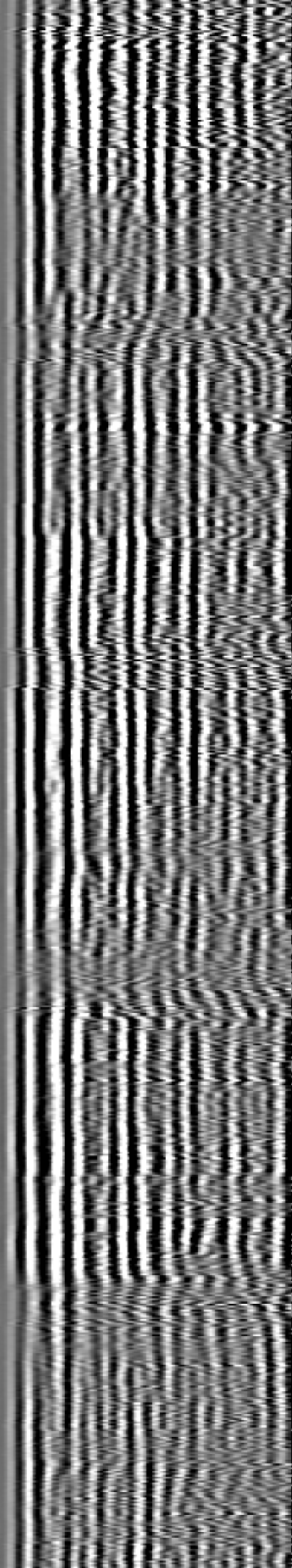
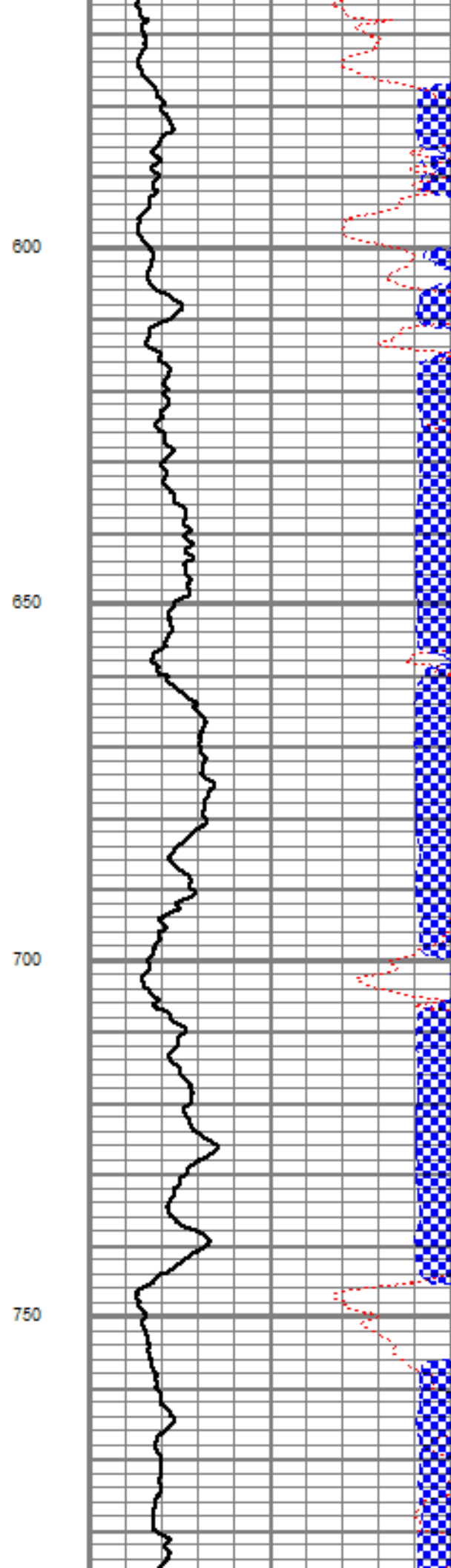
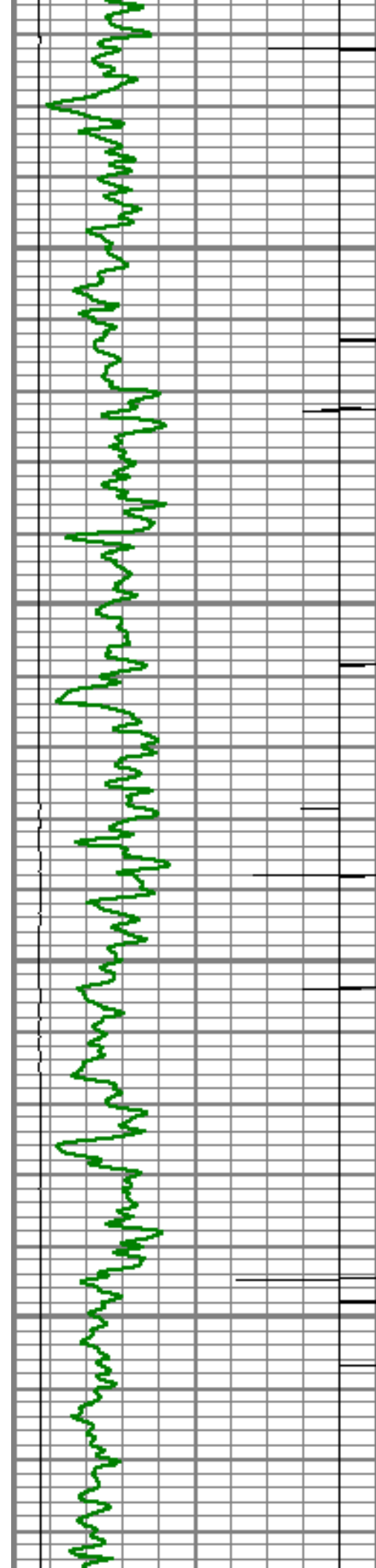
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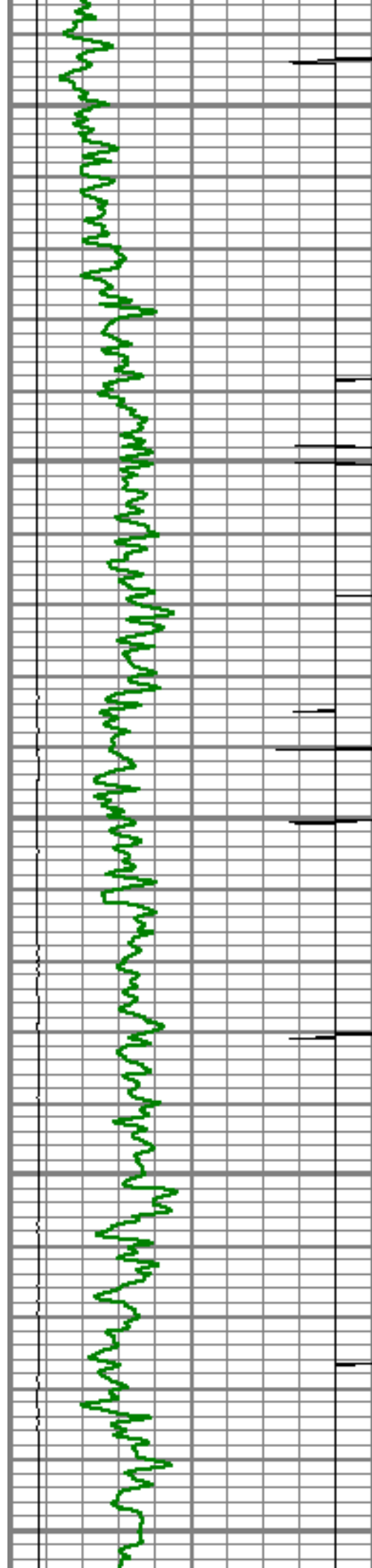
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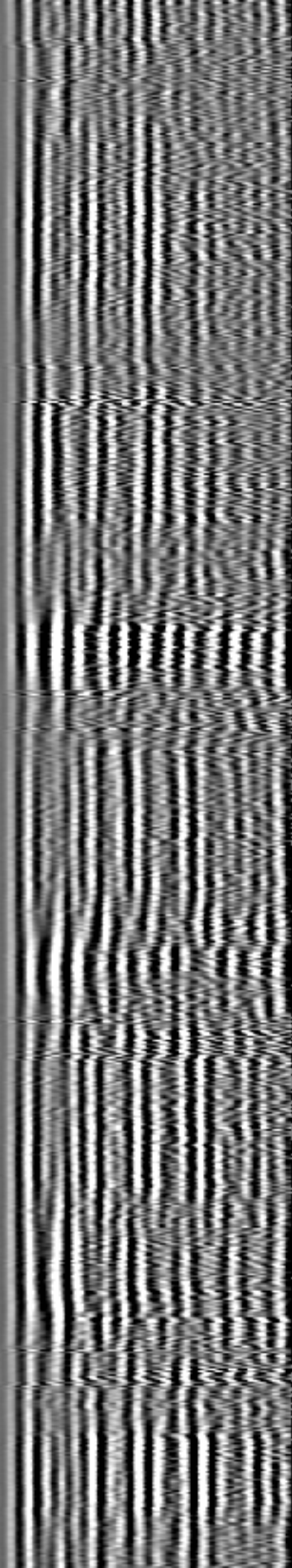
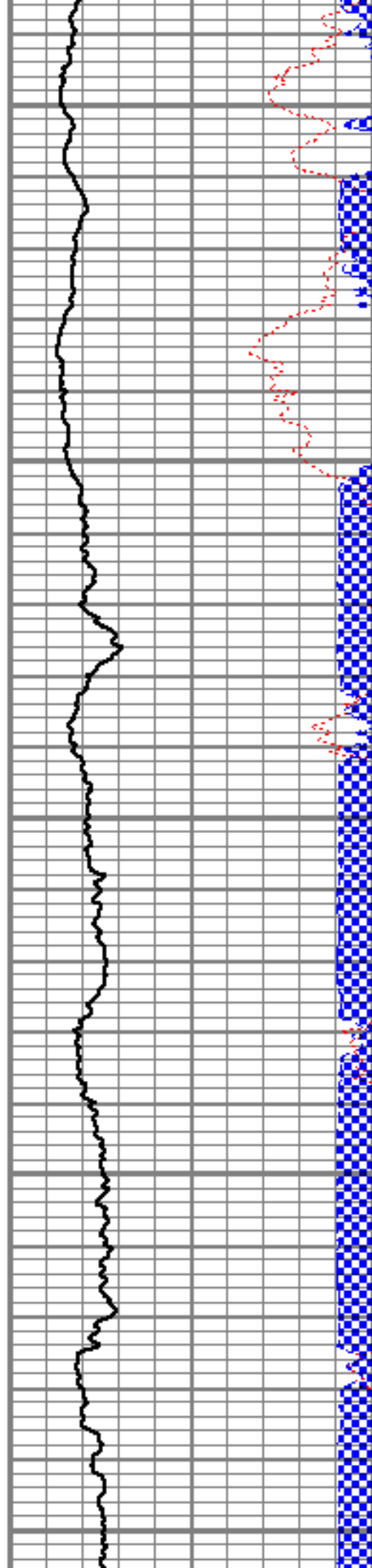
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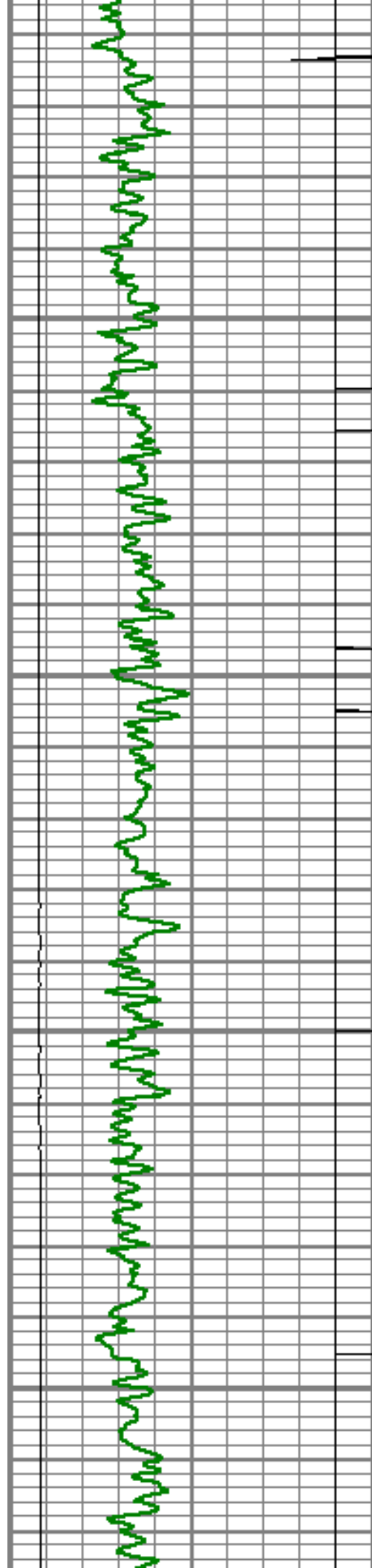
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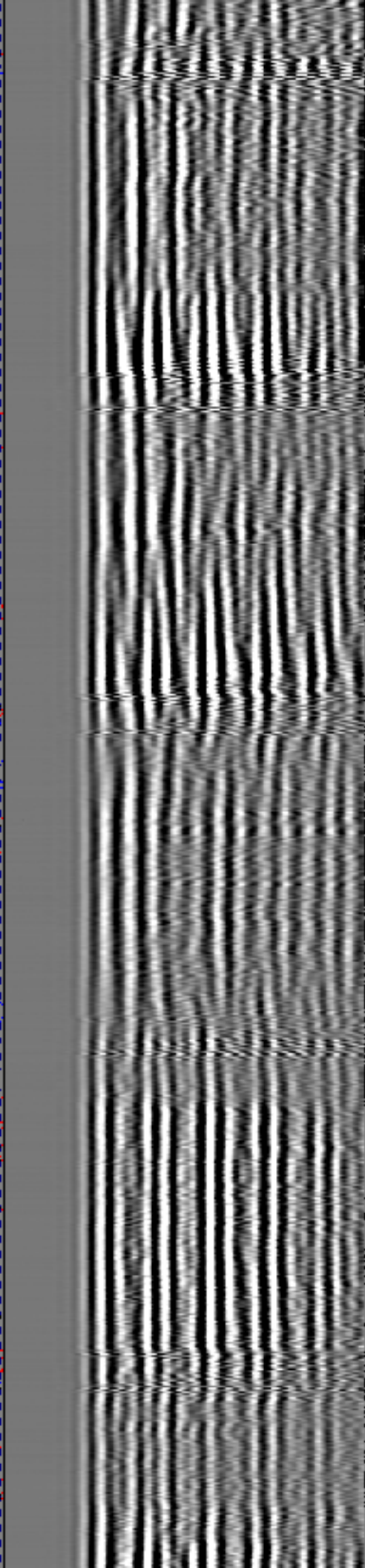
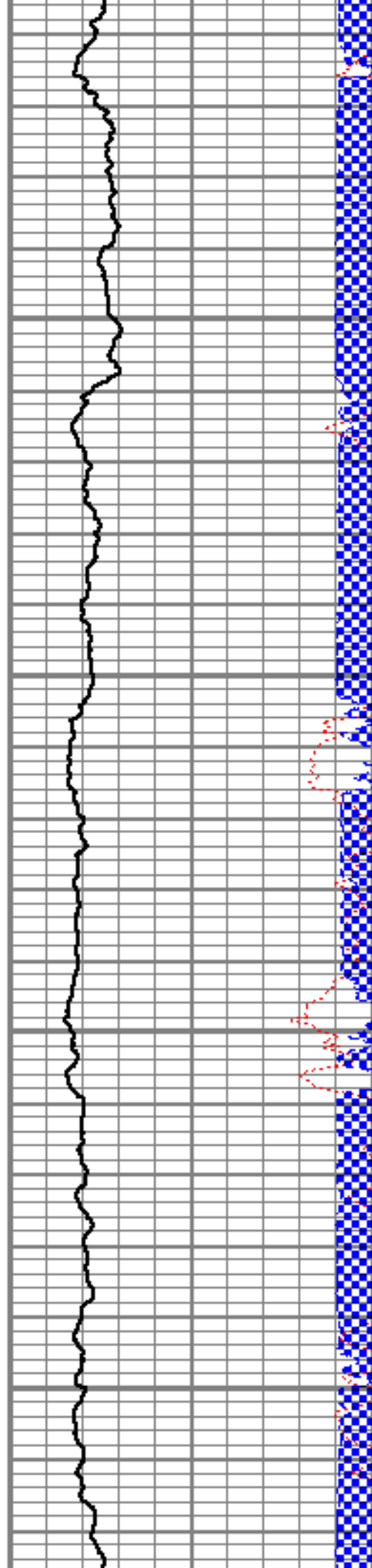


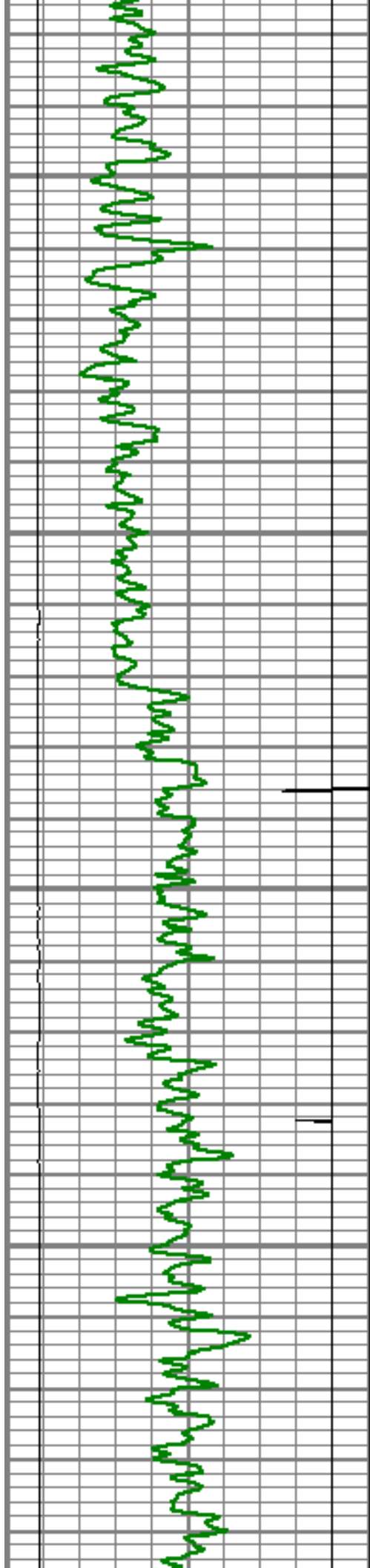
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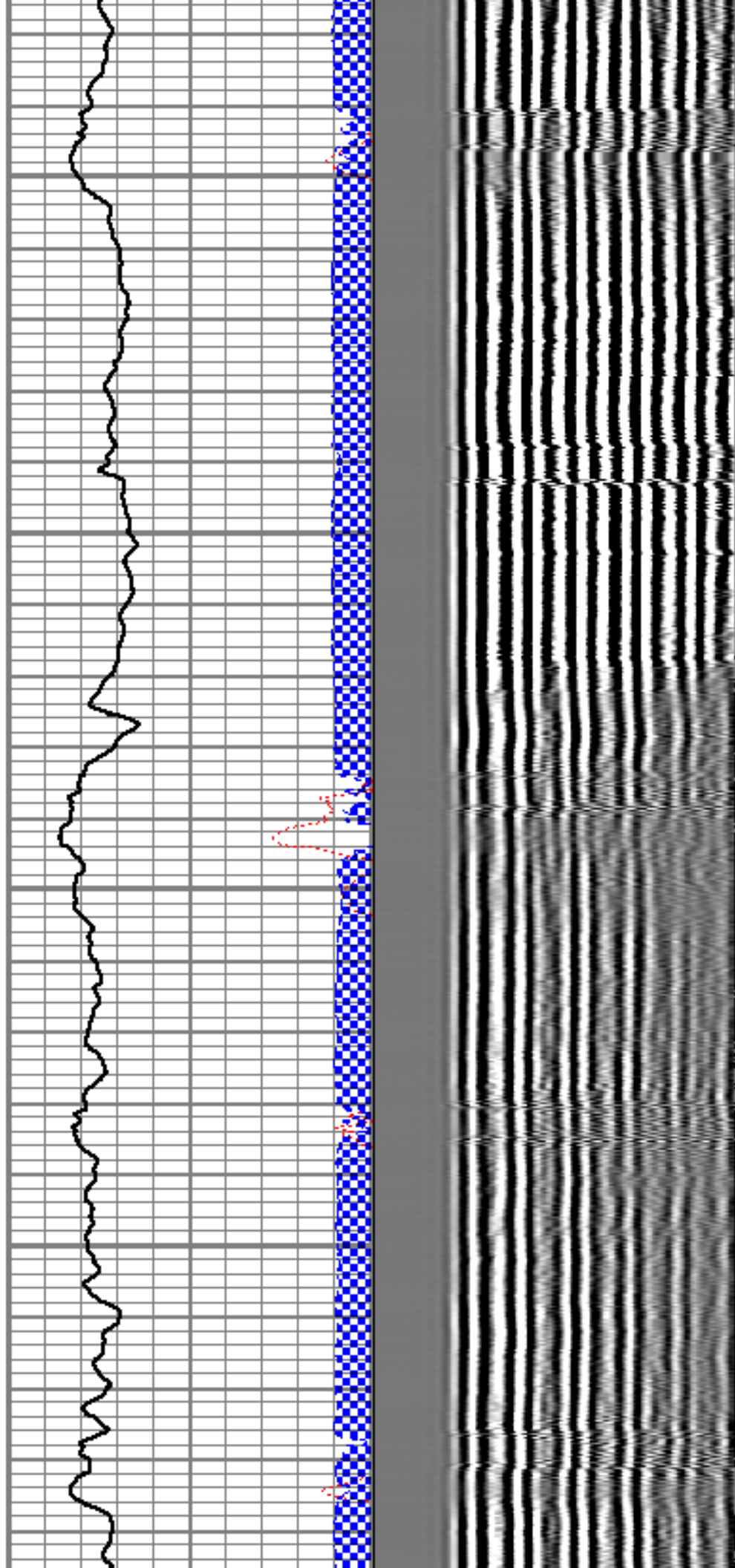


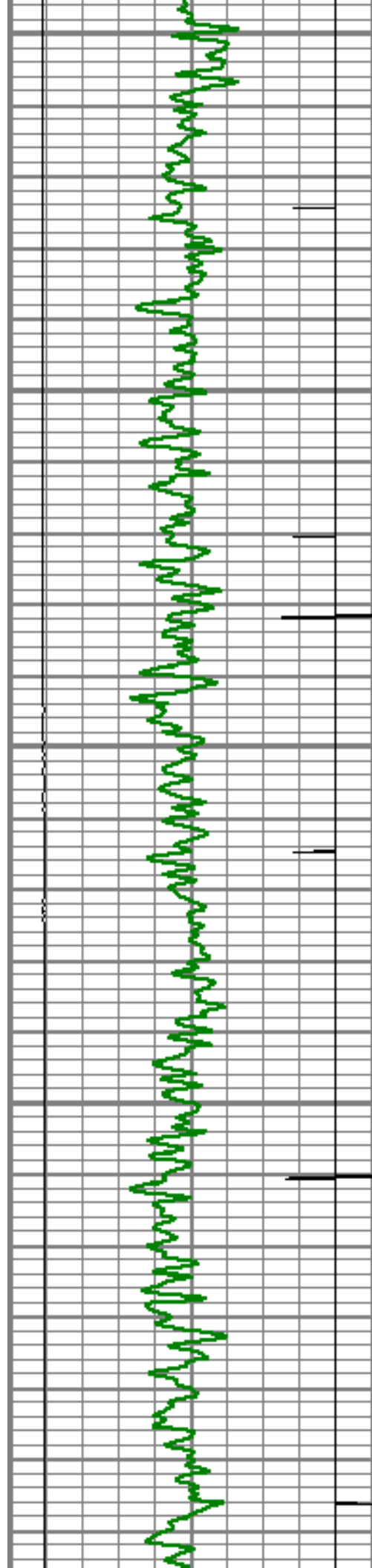
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1400





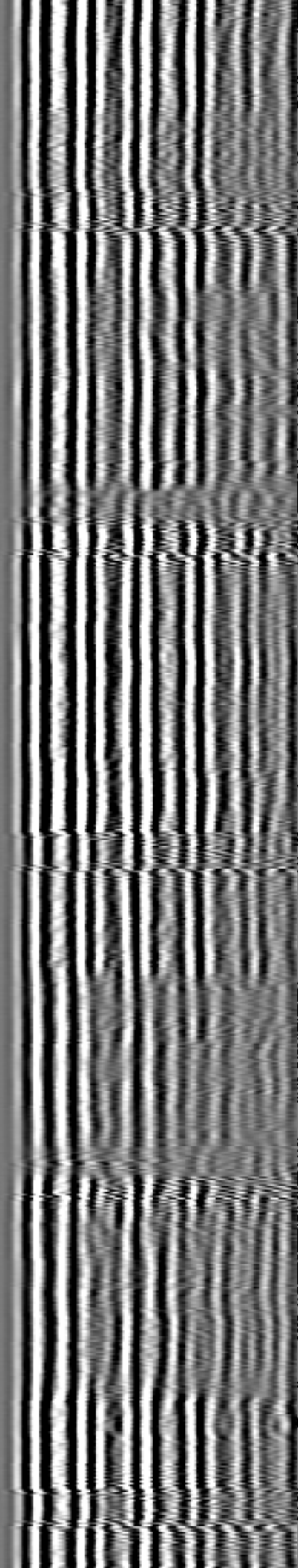
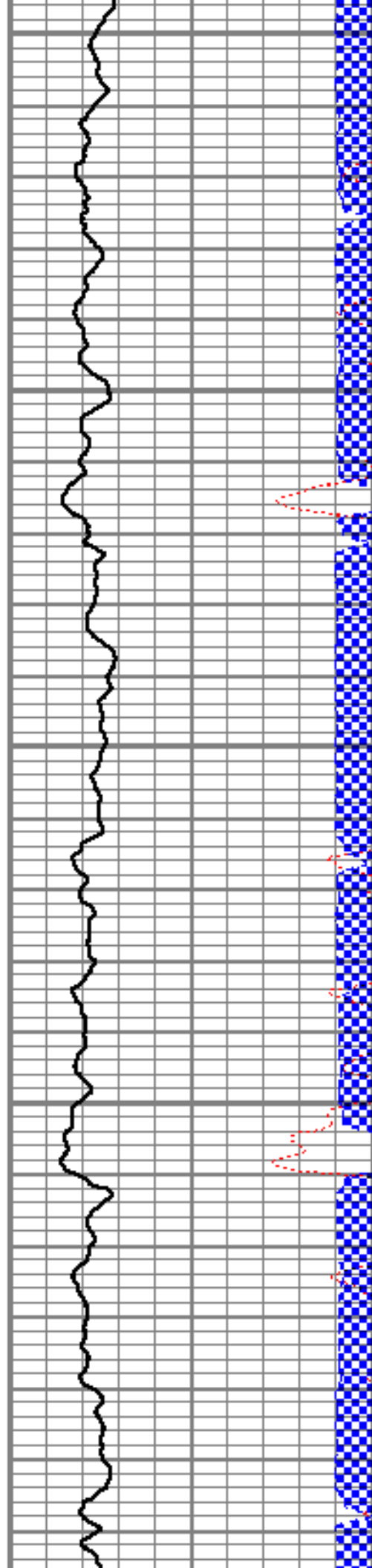
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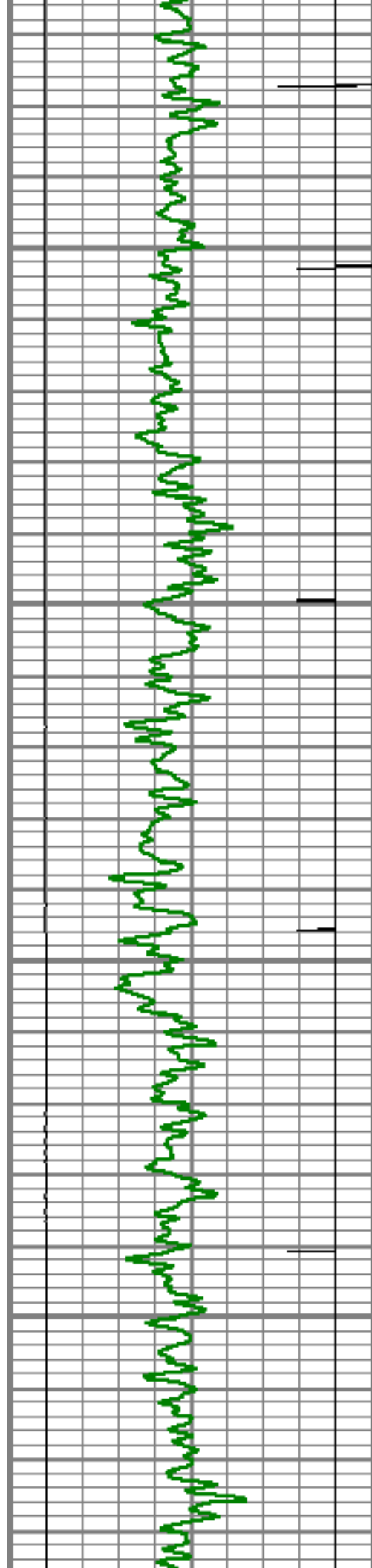
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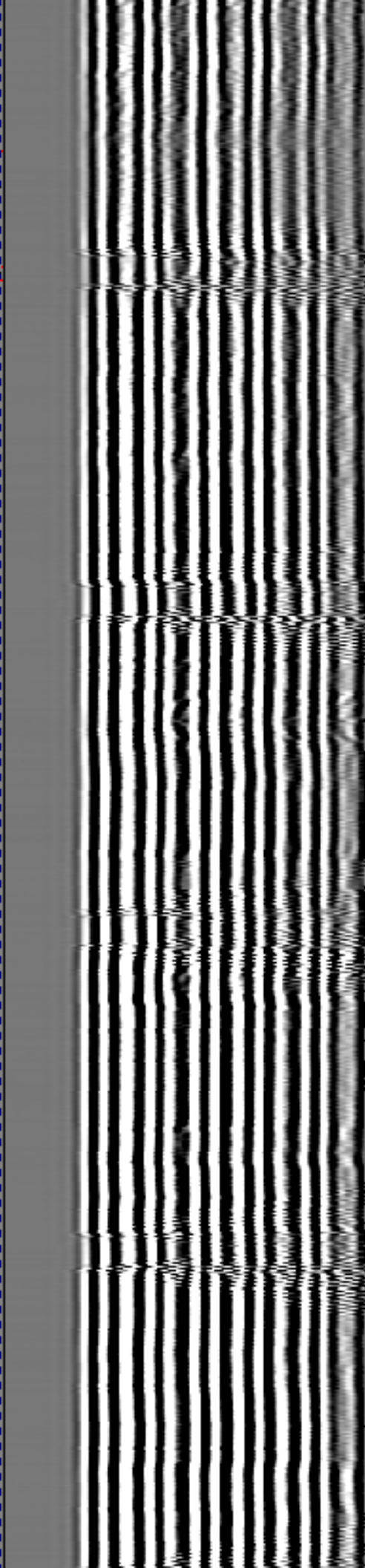
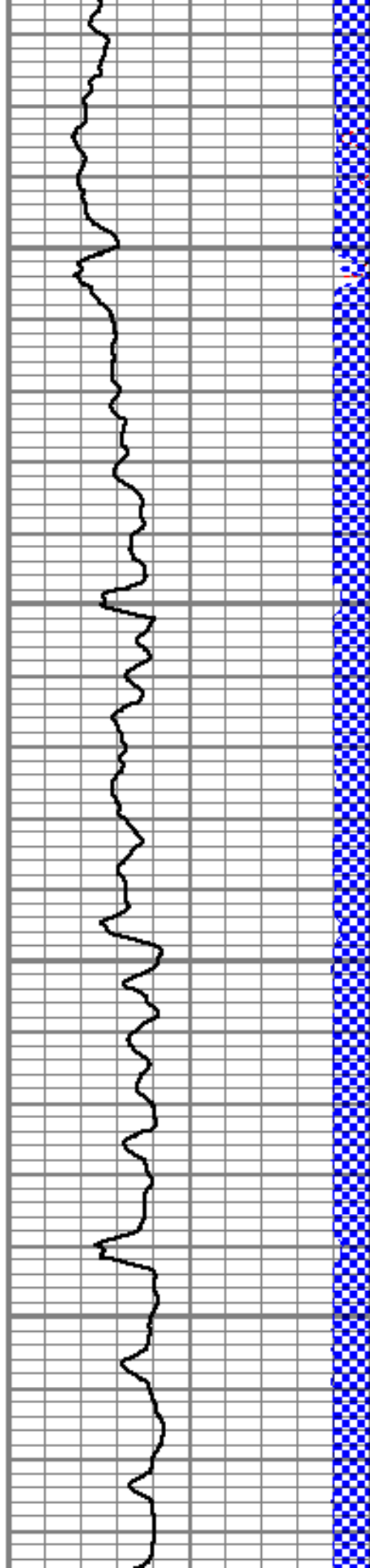


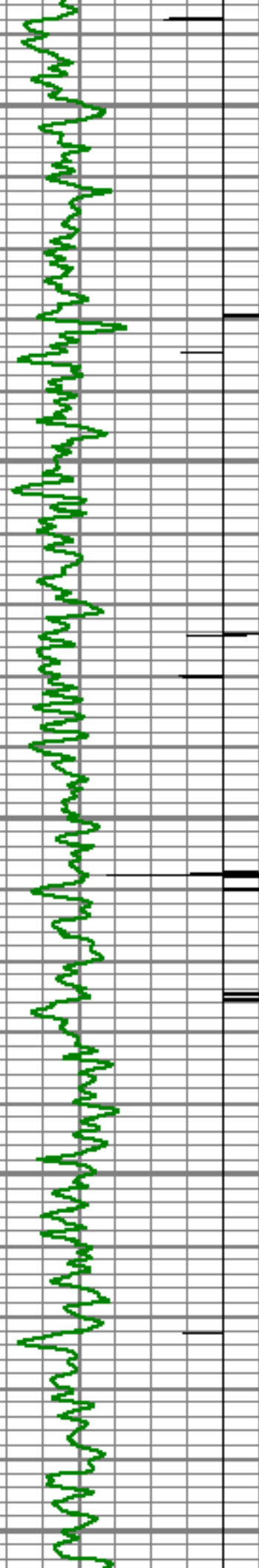
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1850





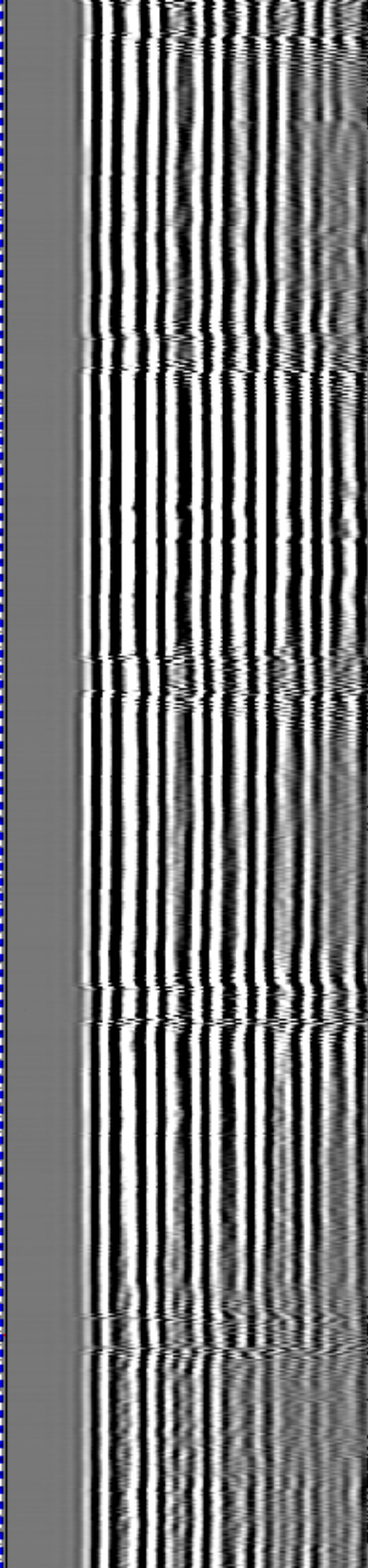
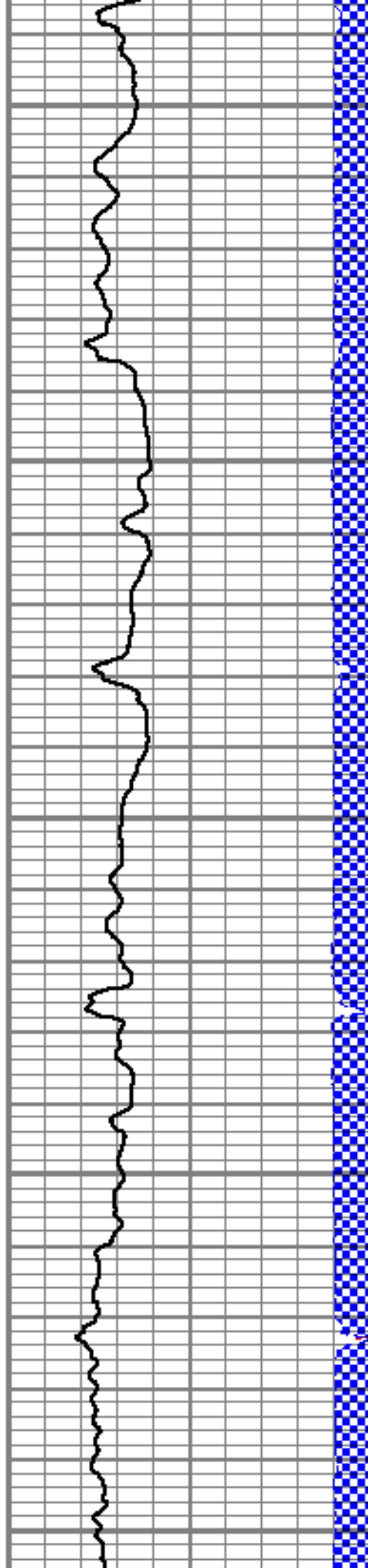
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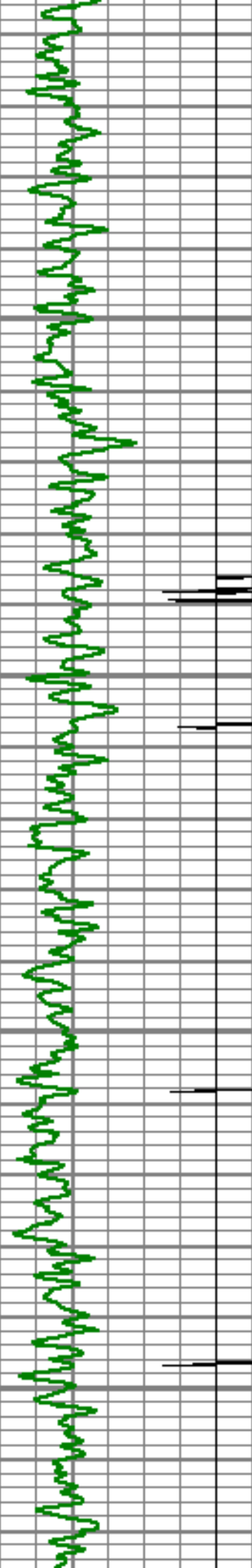
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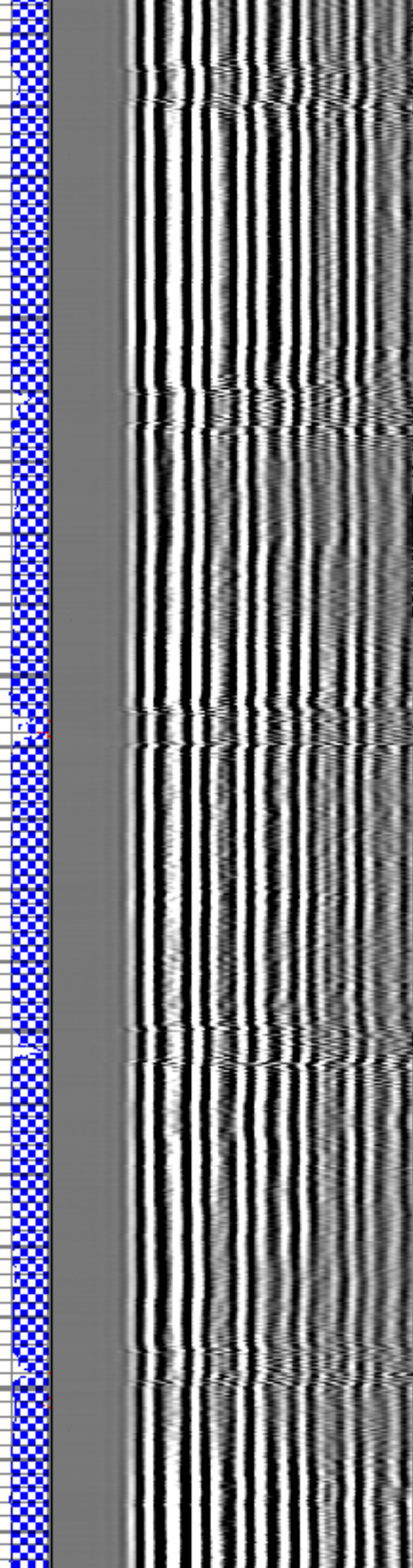
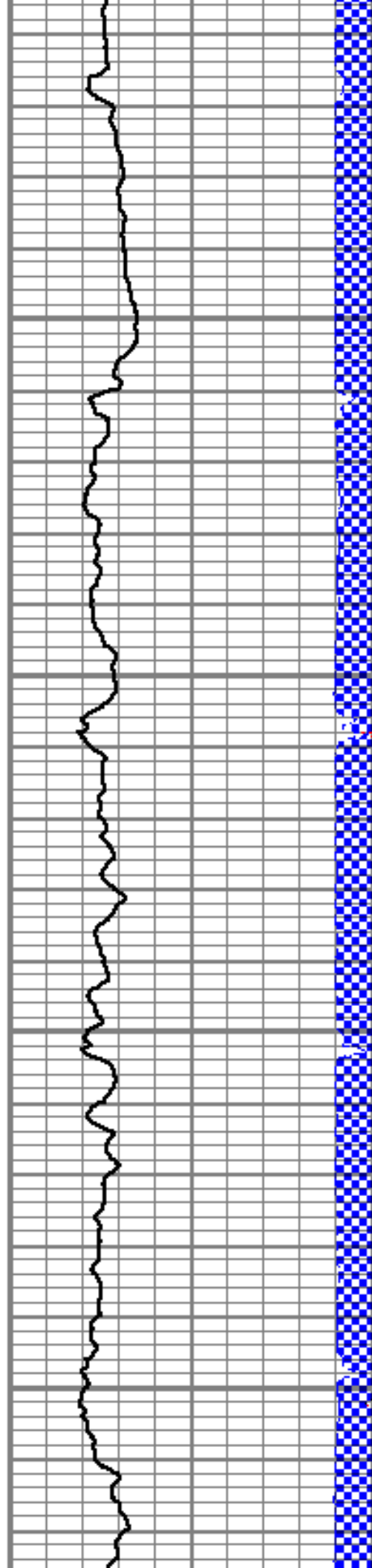


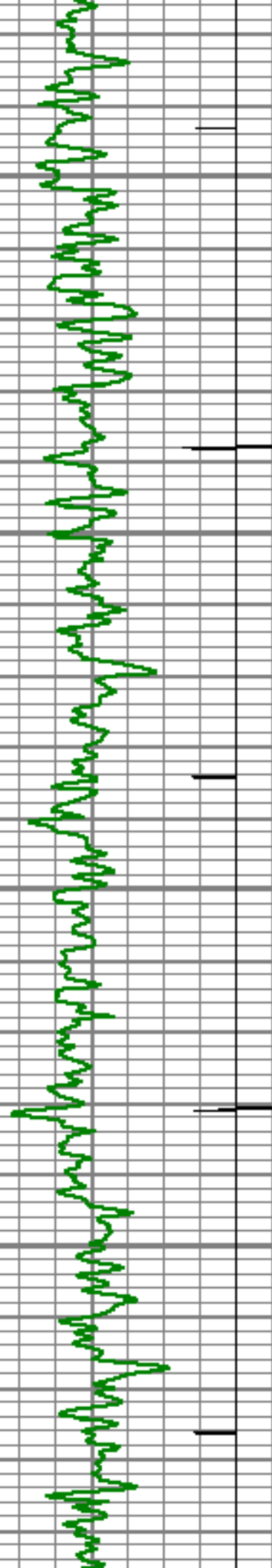
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2250

2300



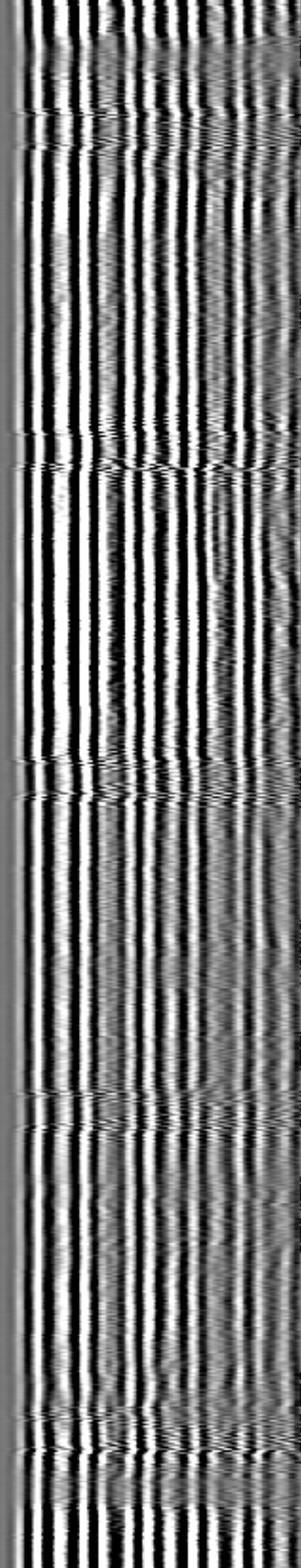
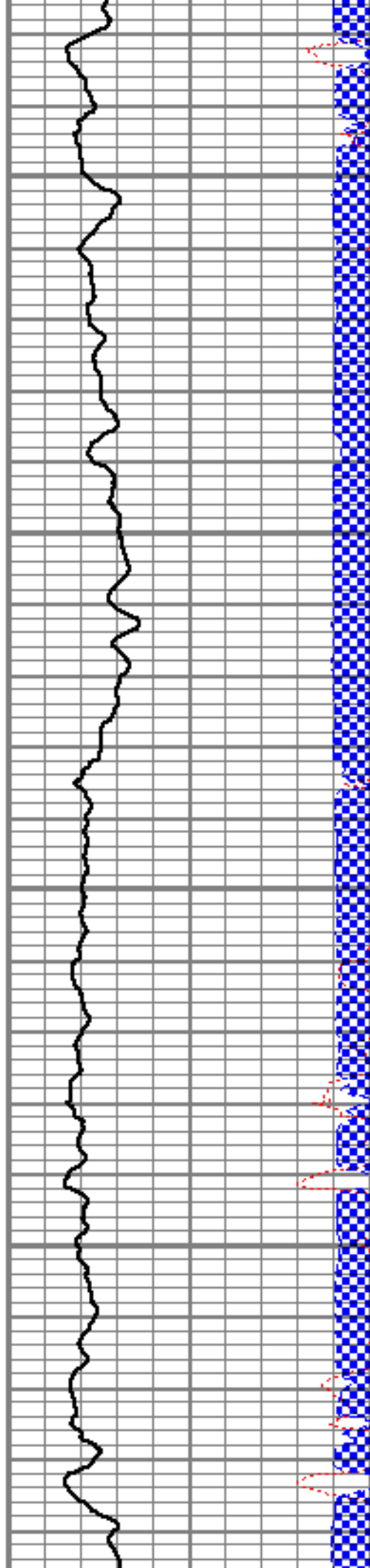


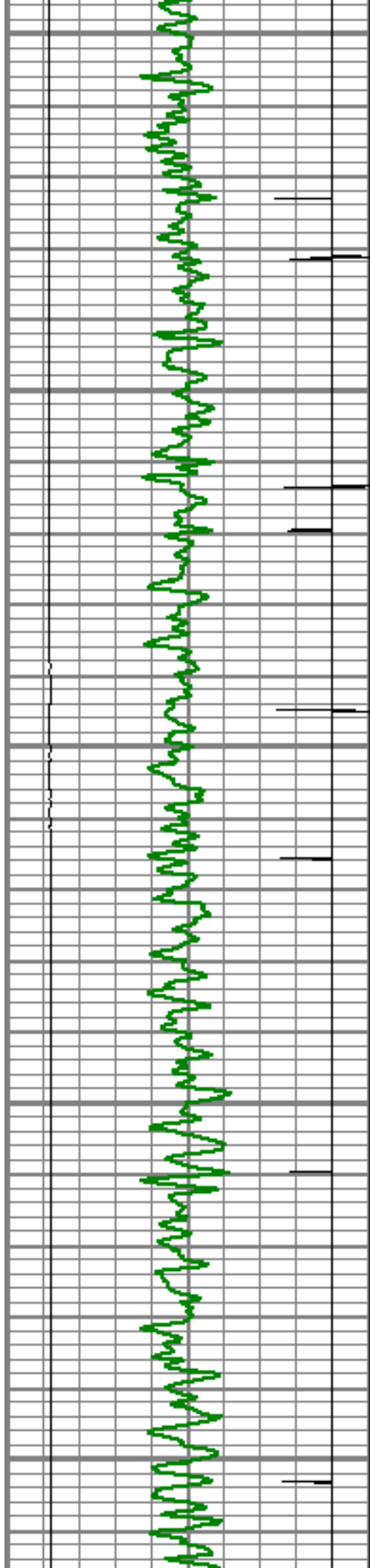
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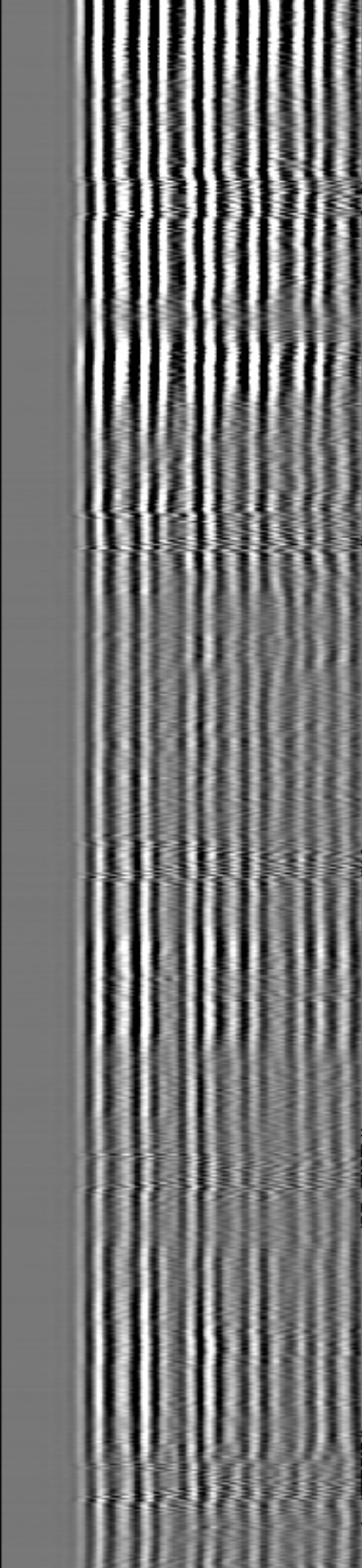
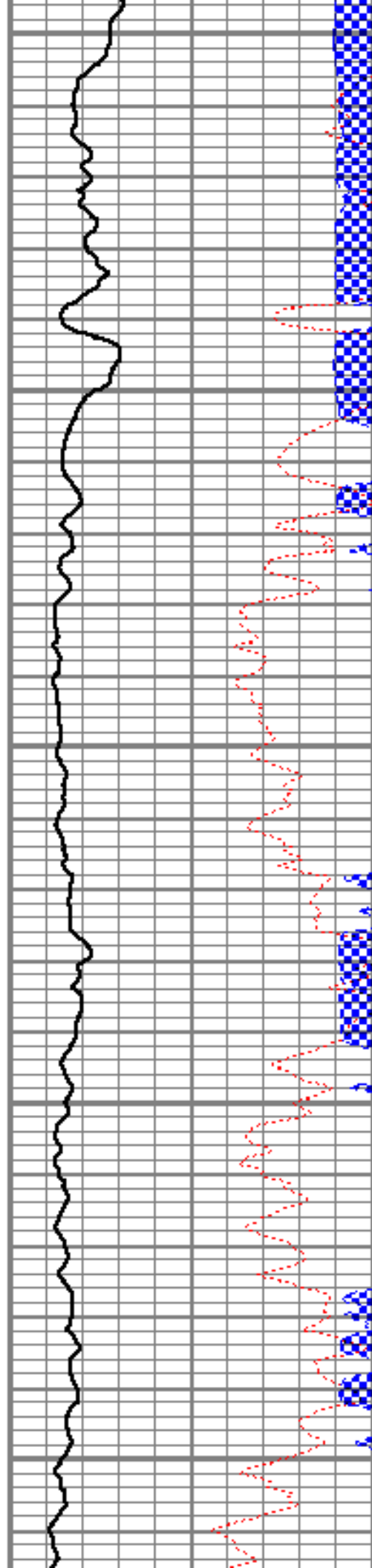
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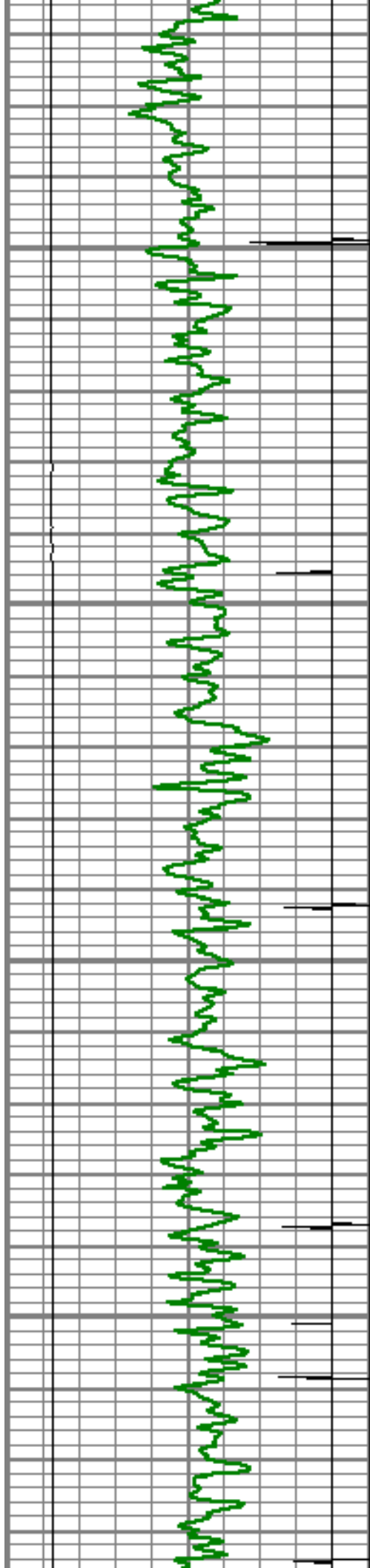
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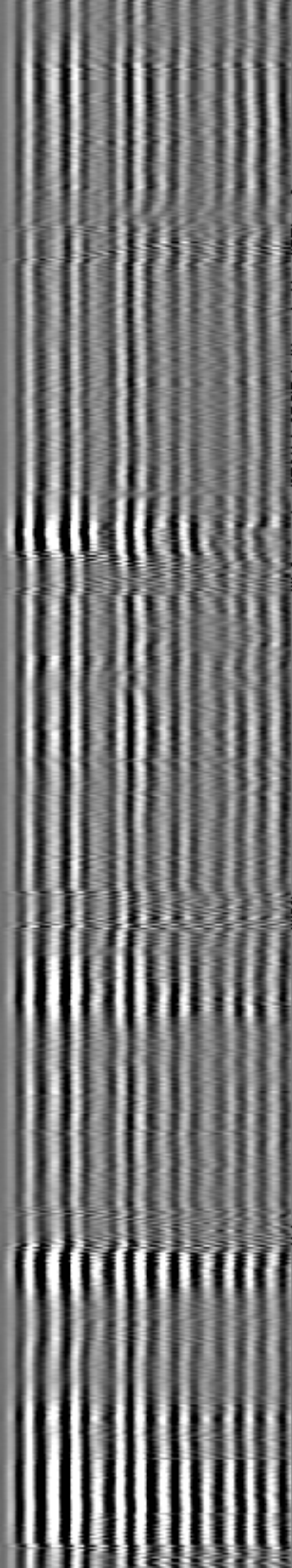
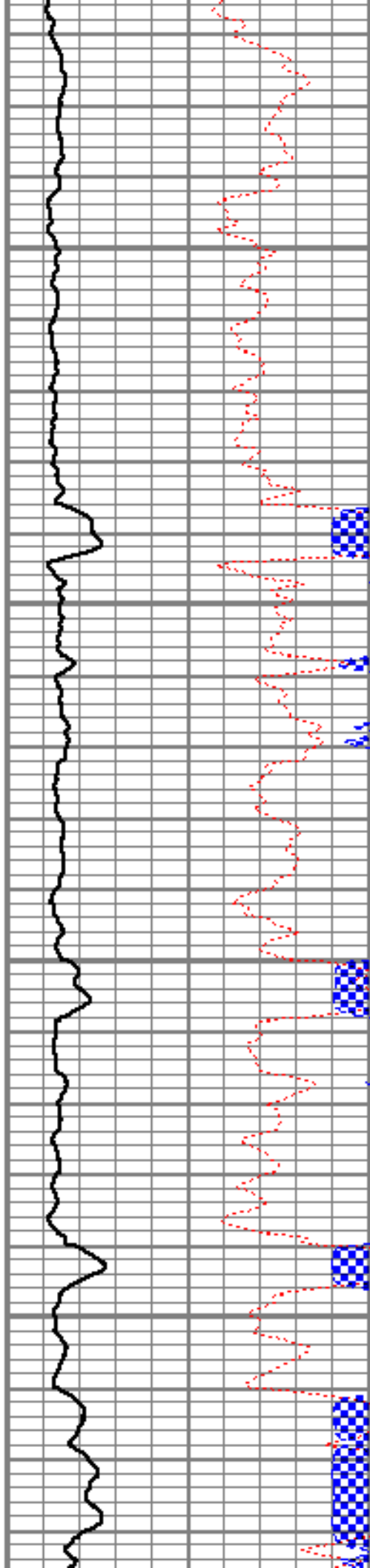


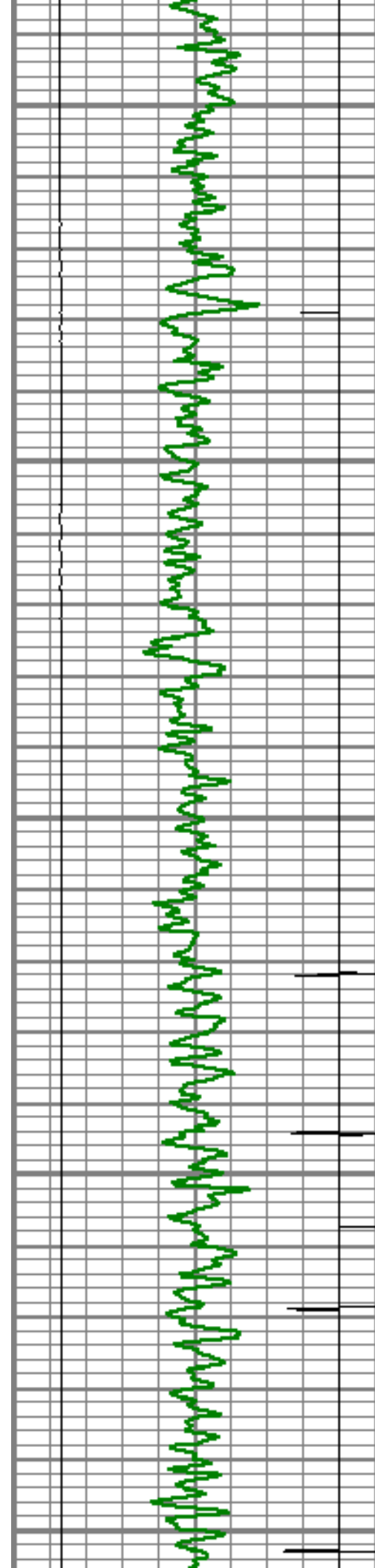
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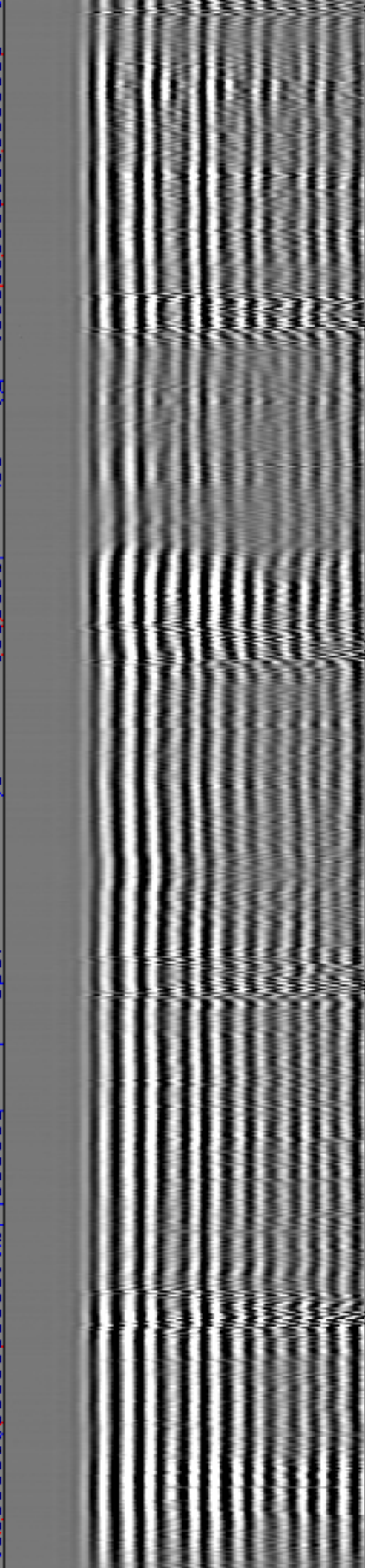
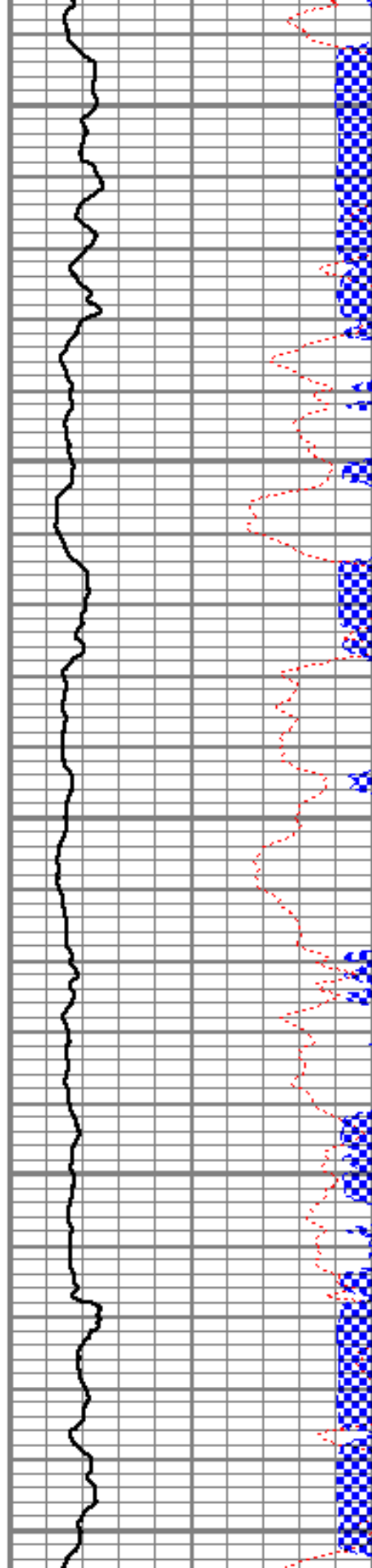
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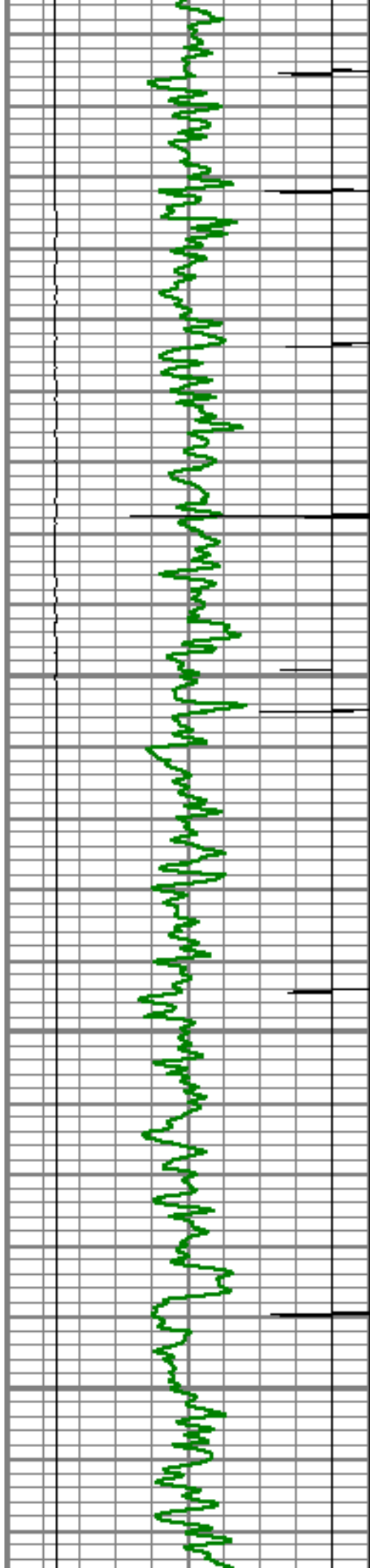
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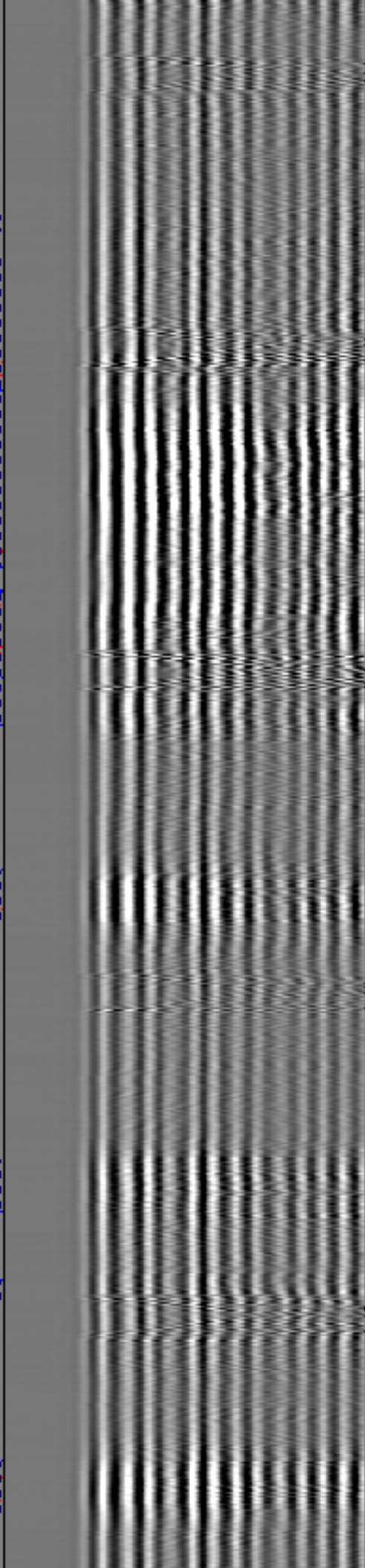
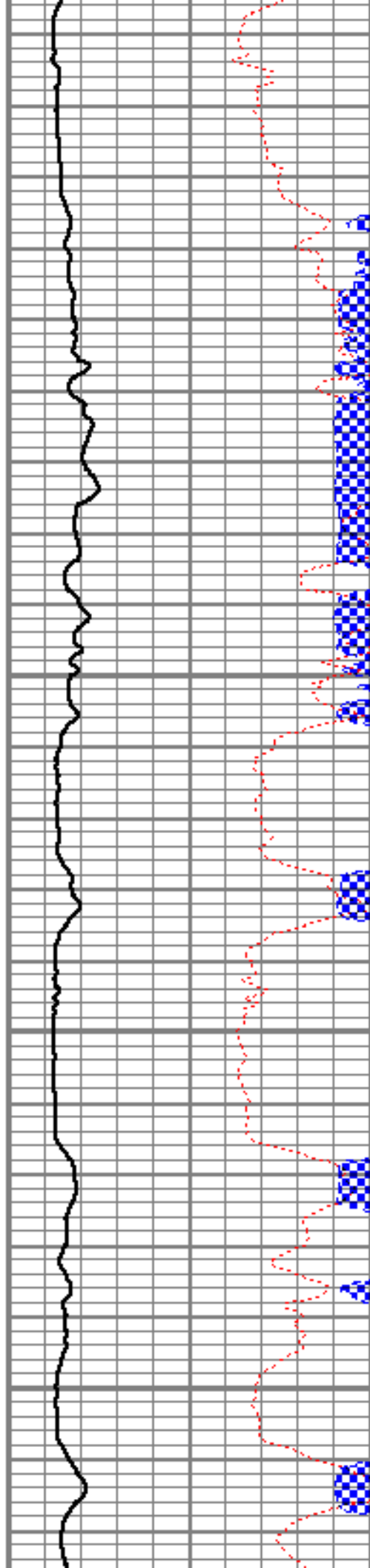


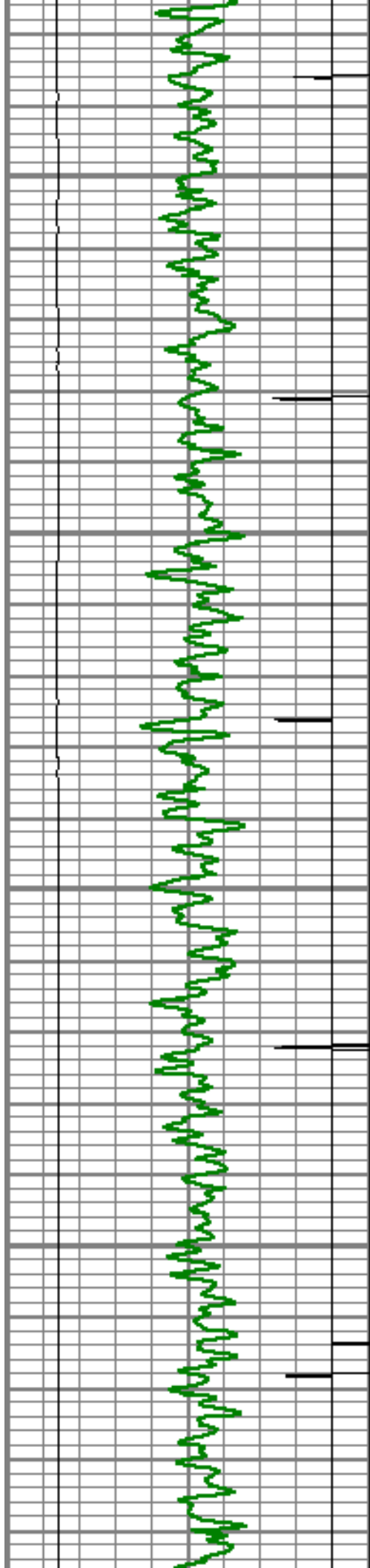
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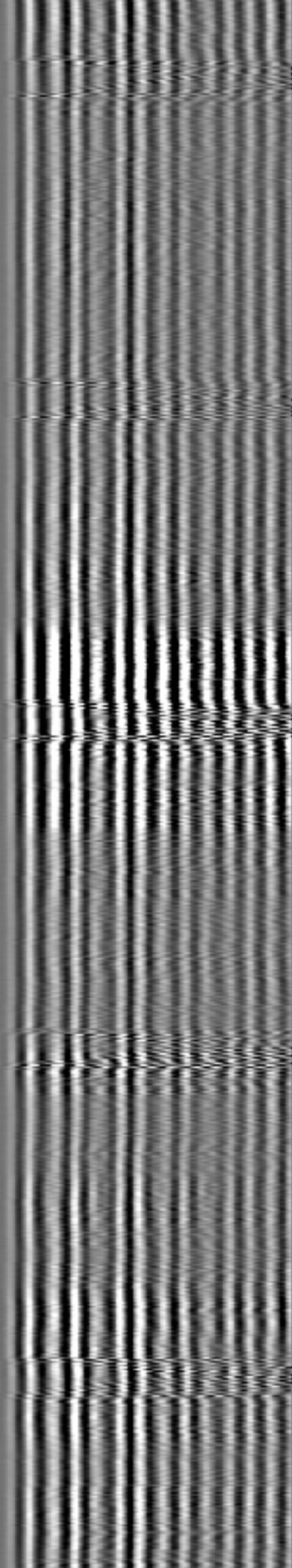
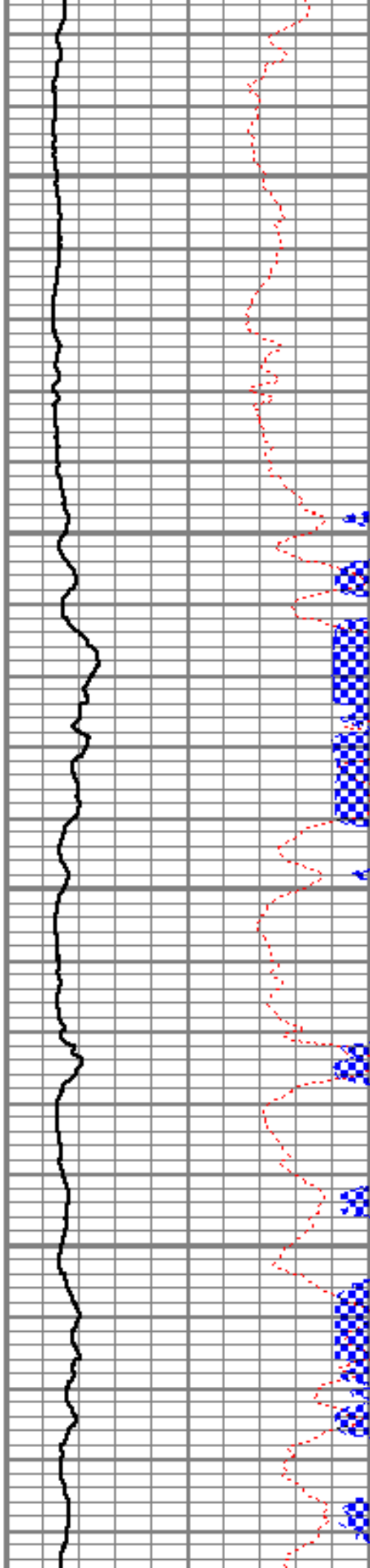


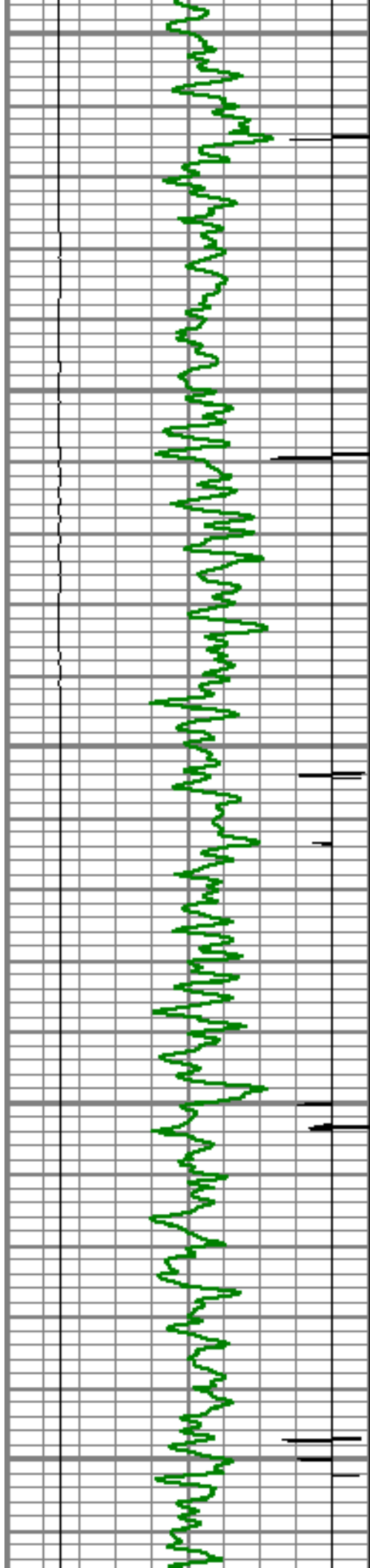
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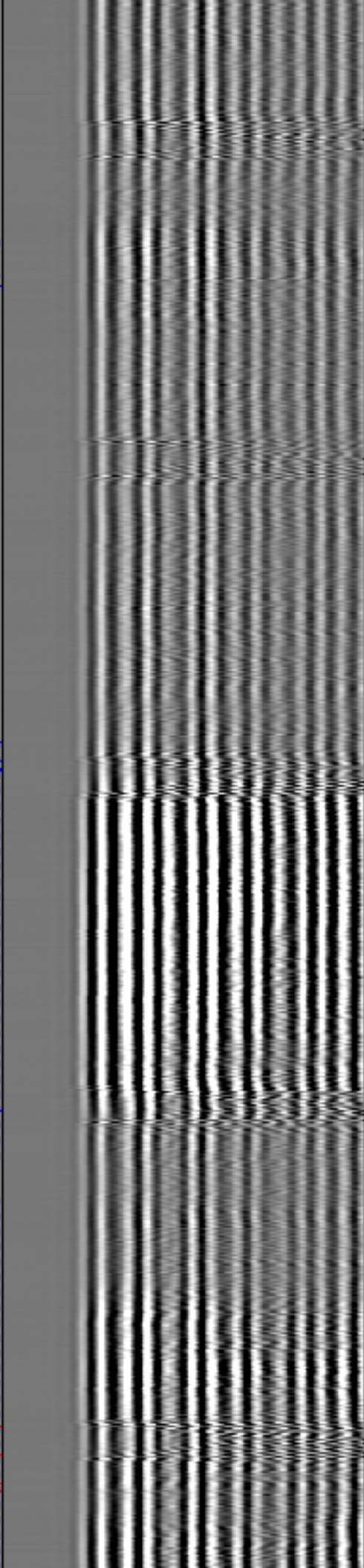
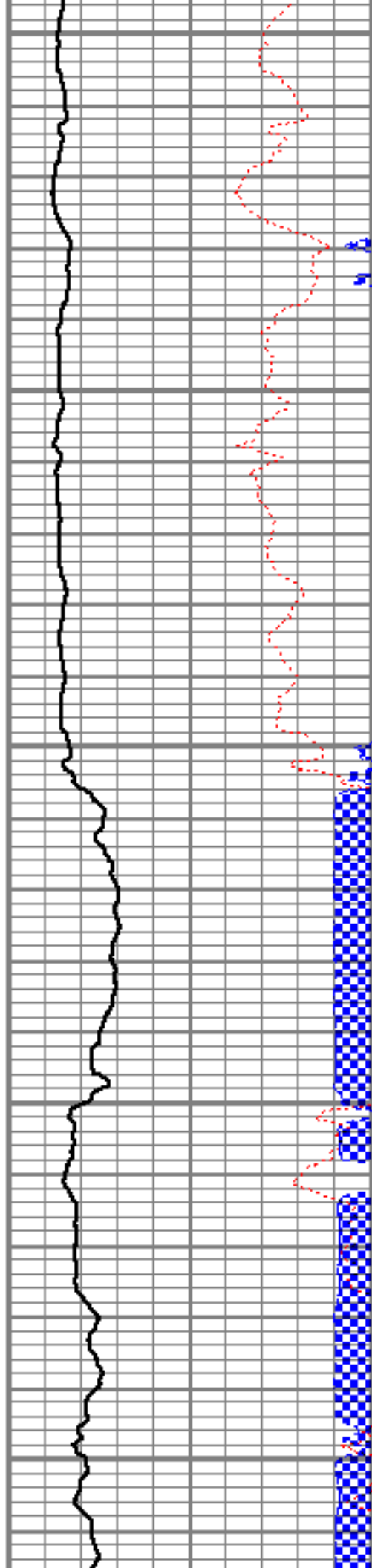
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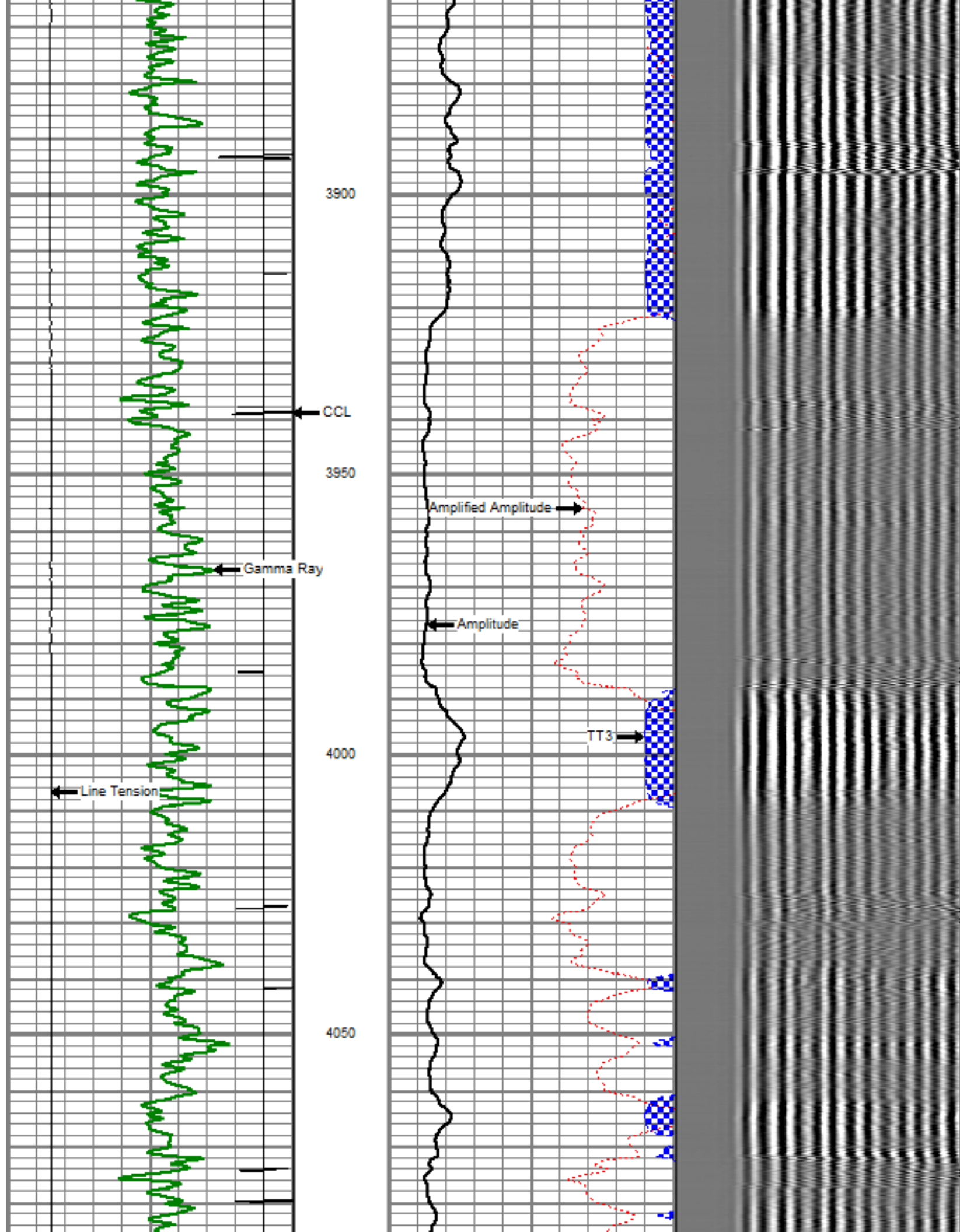
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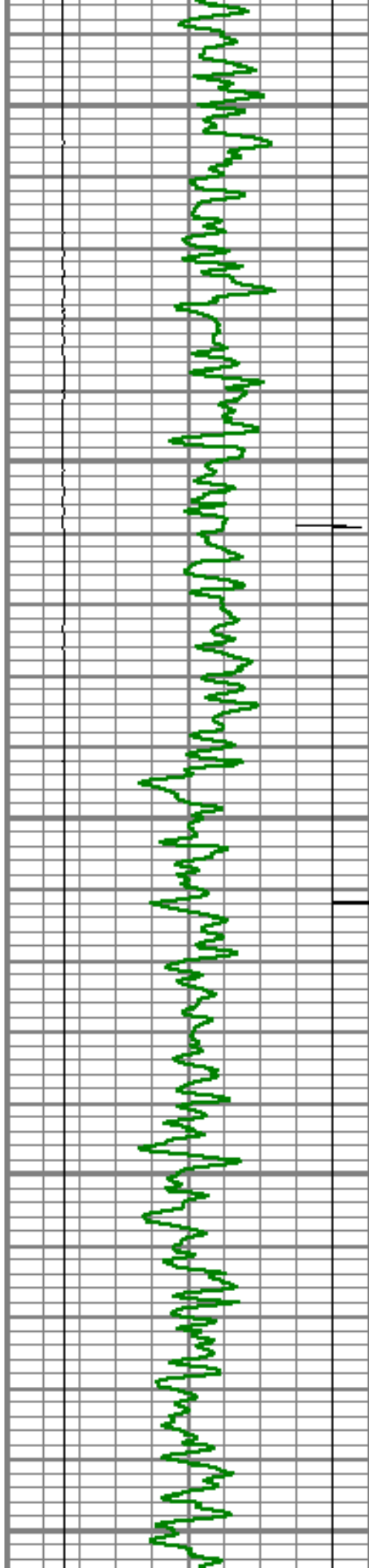
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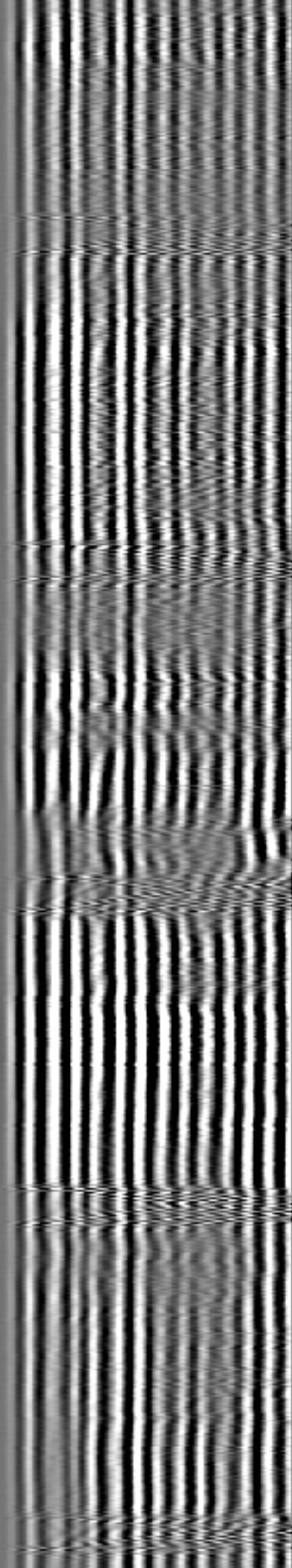
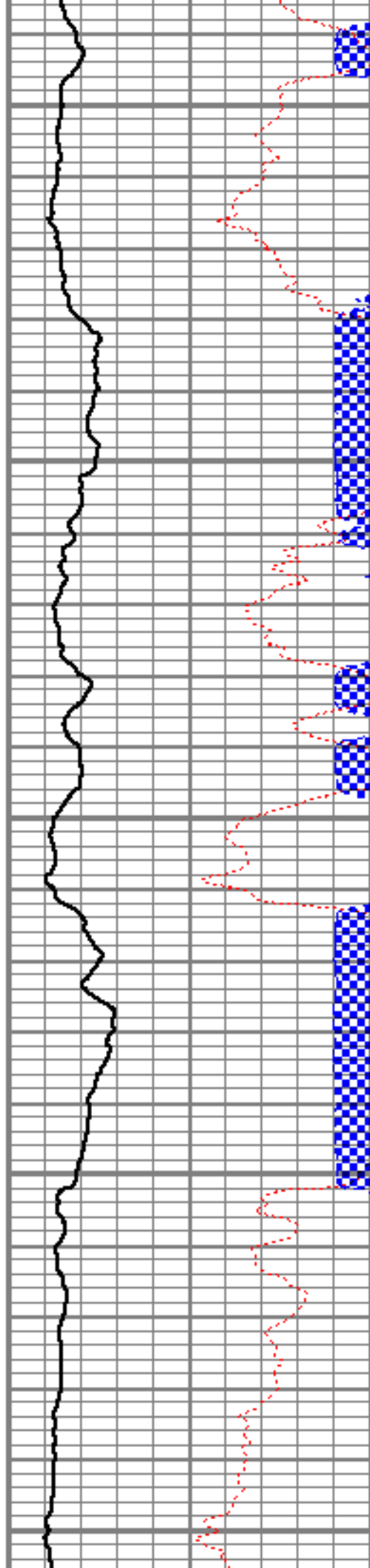
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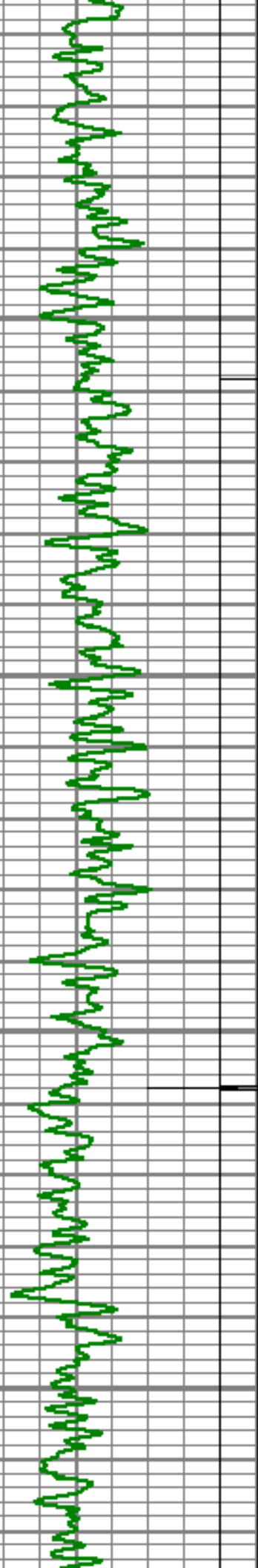
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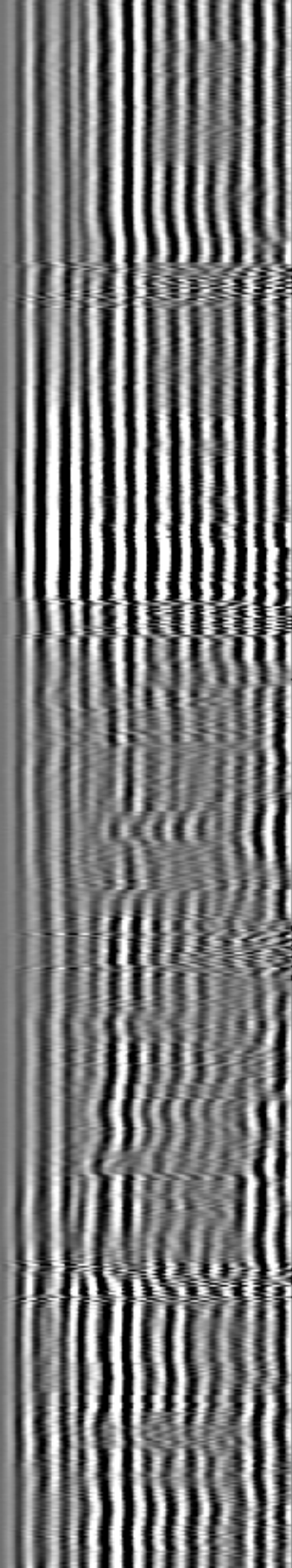
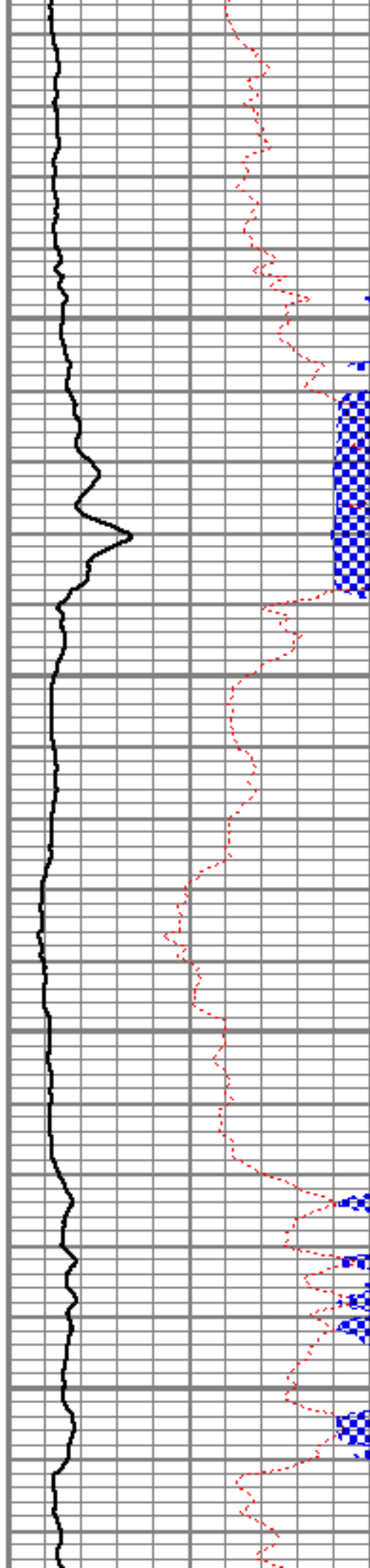


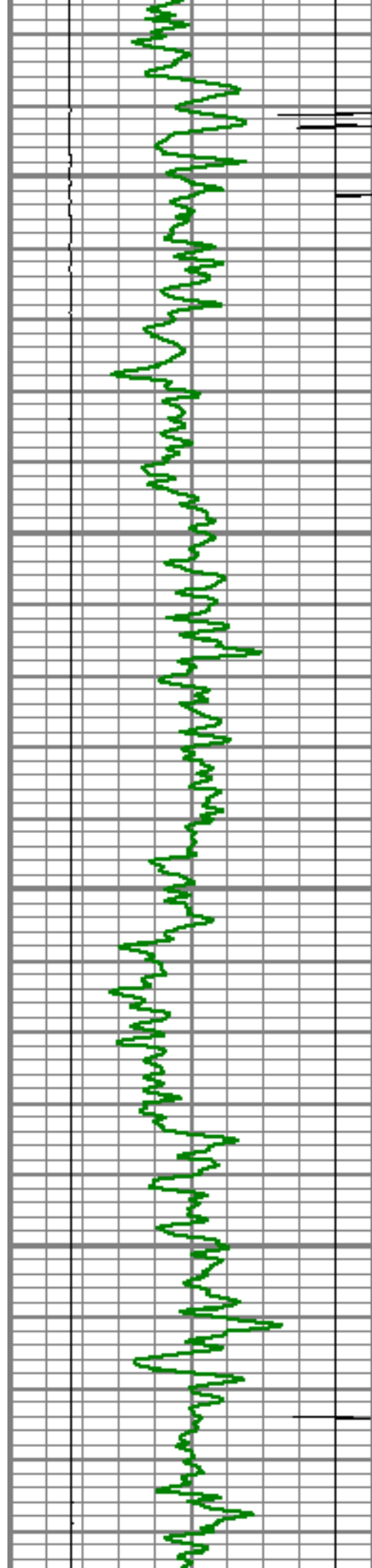
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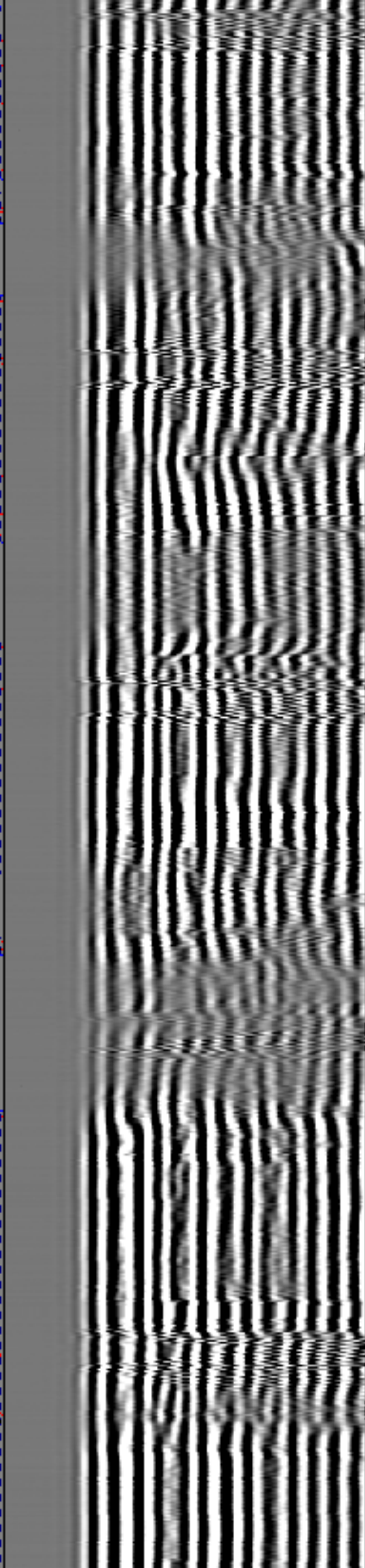
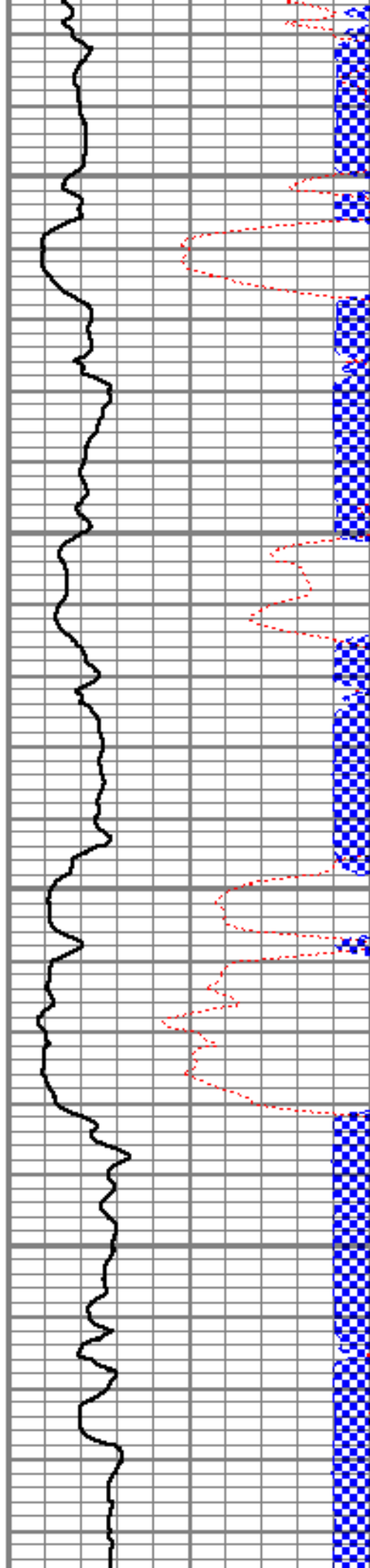


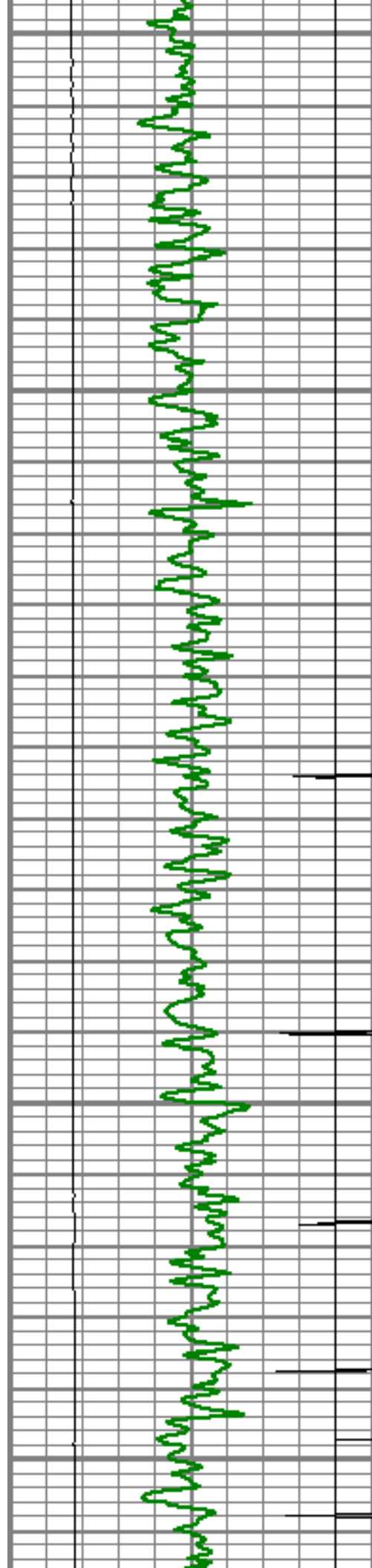
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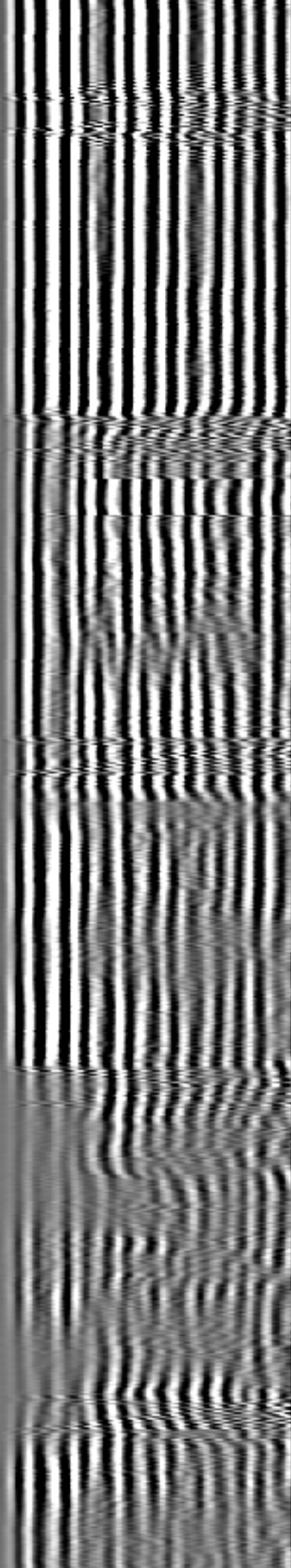
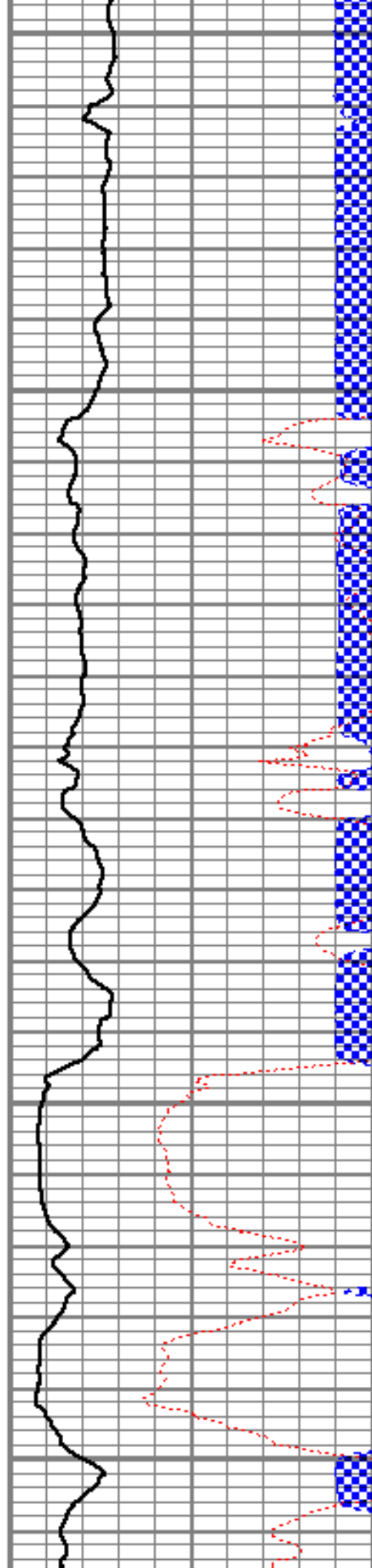
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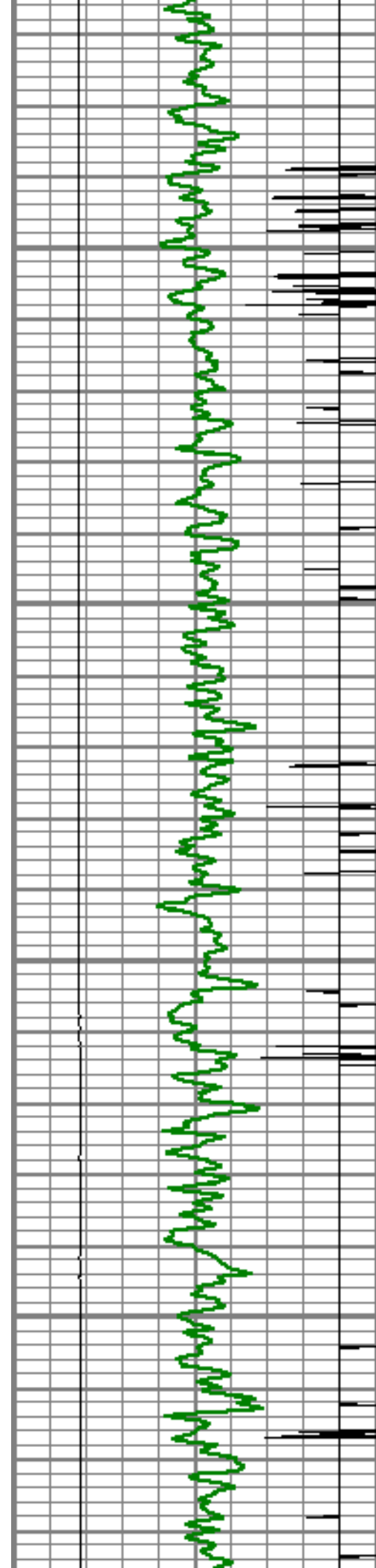
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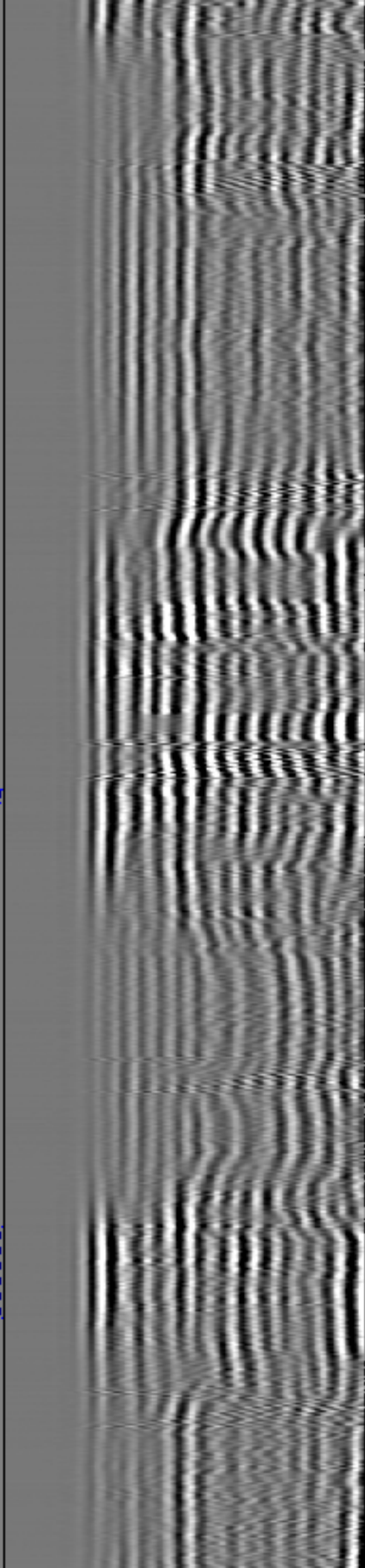
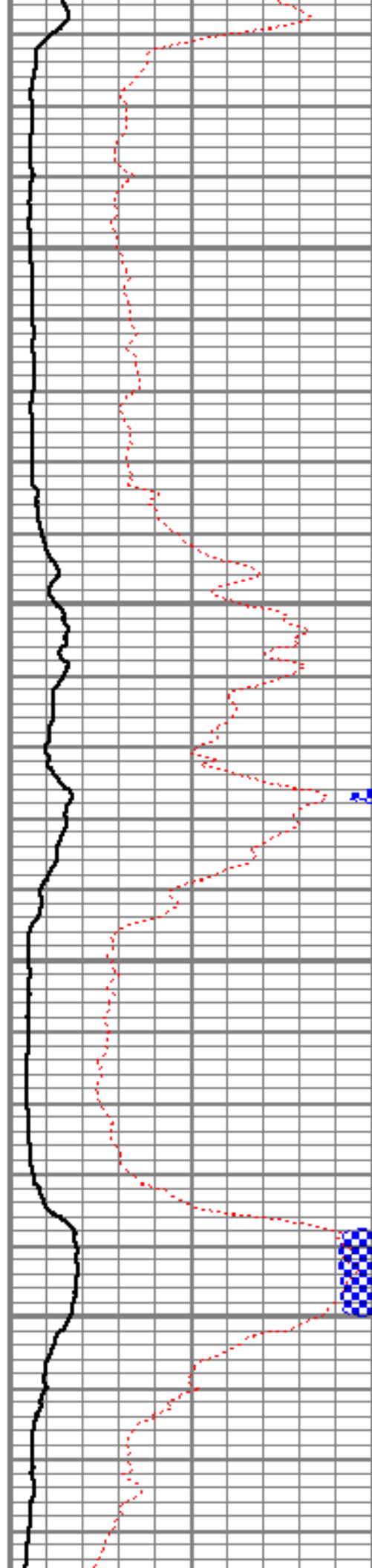


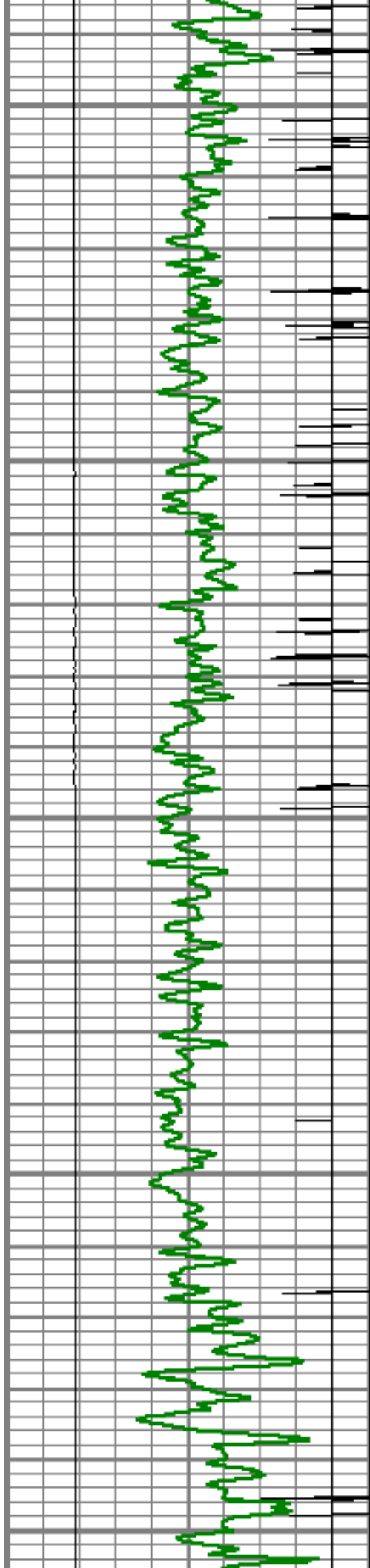
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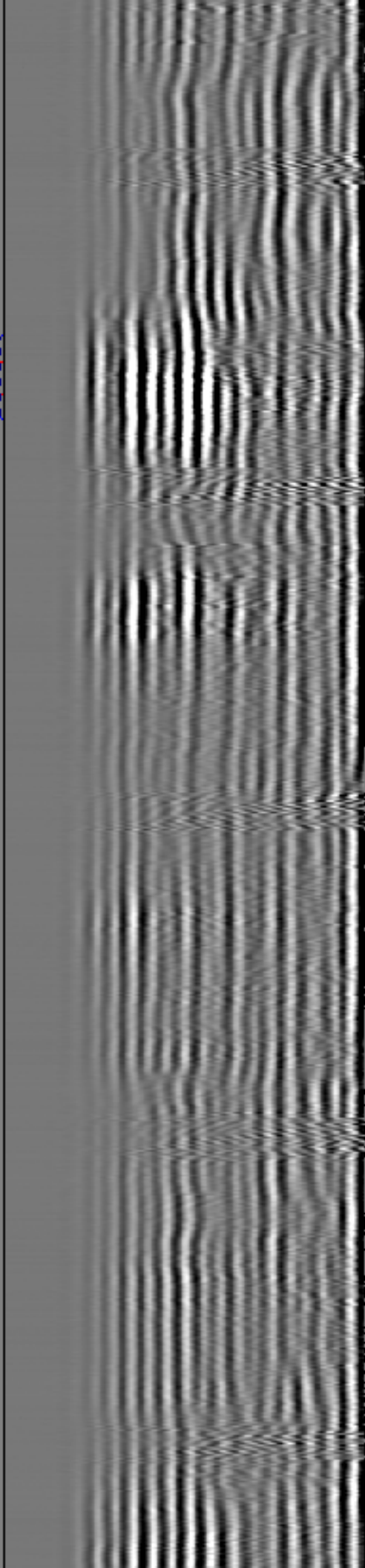
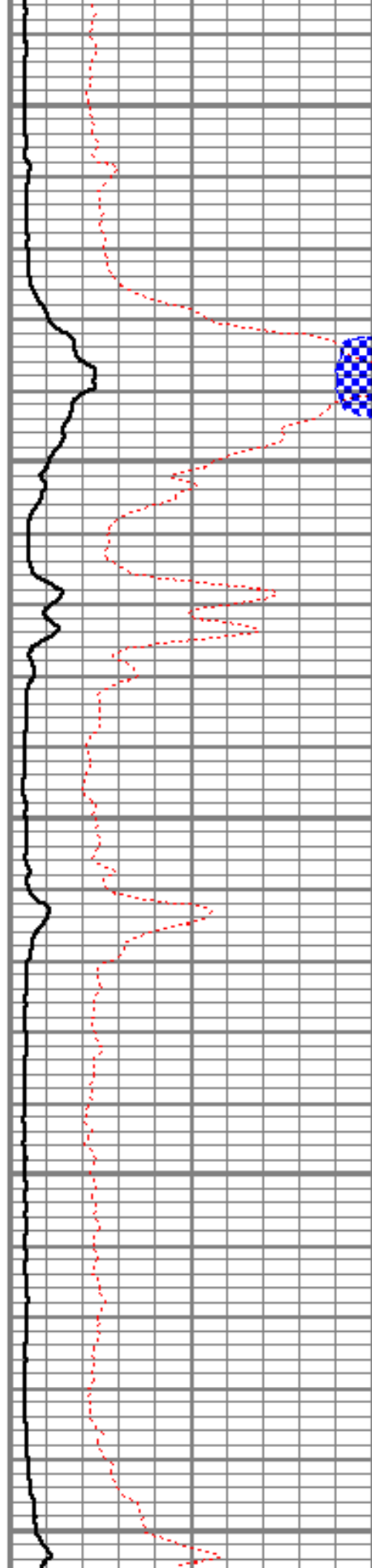
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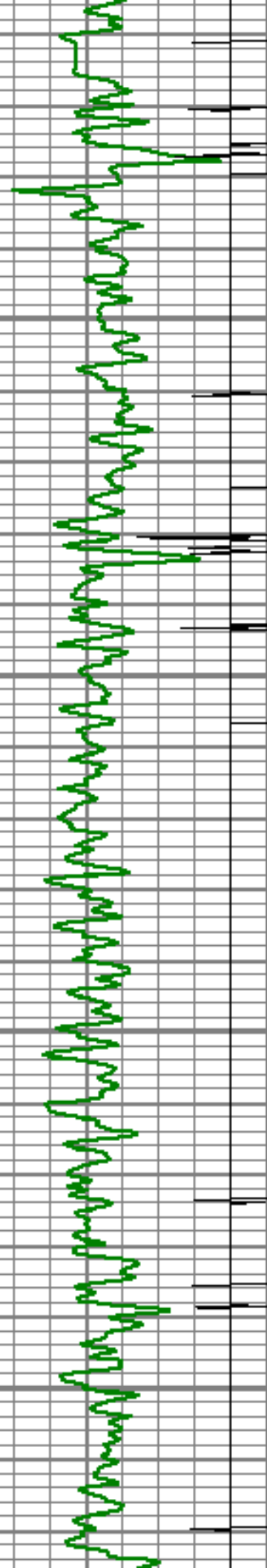
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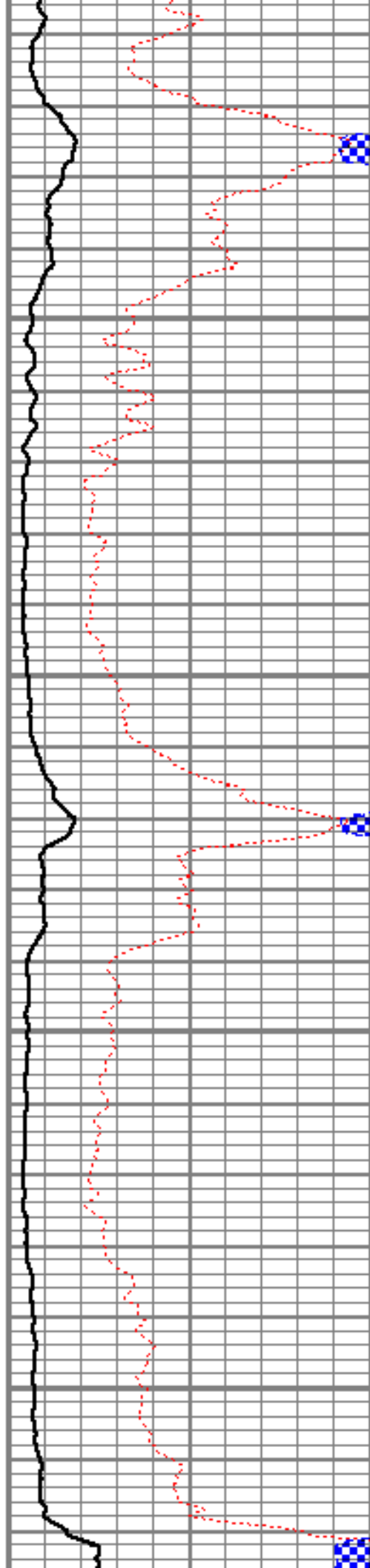


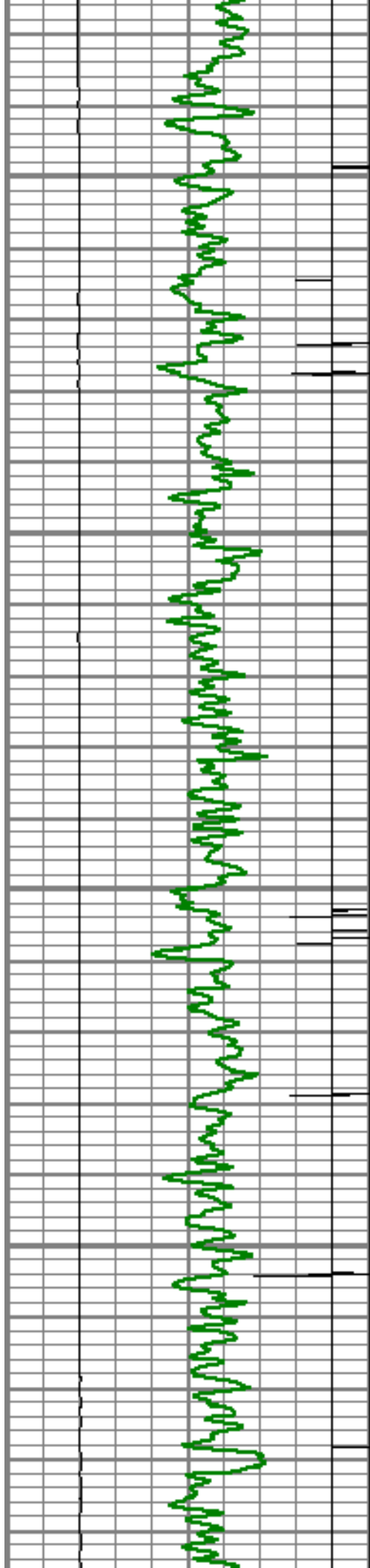
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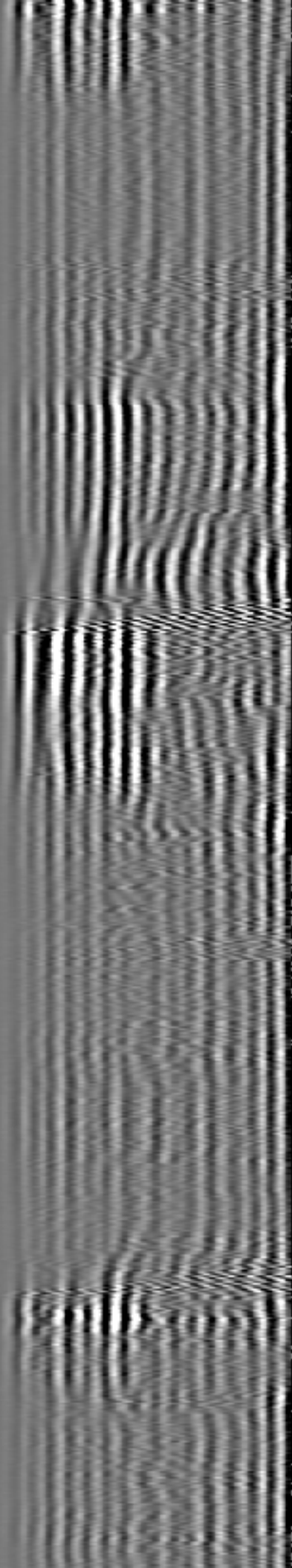
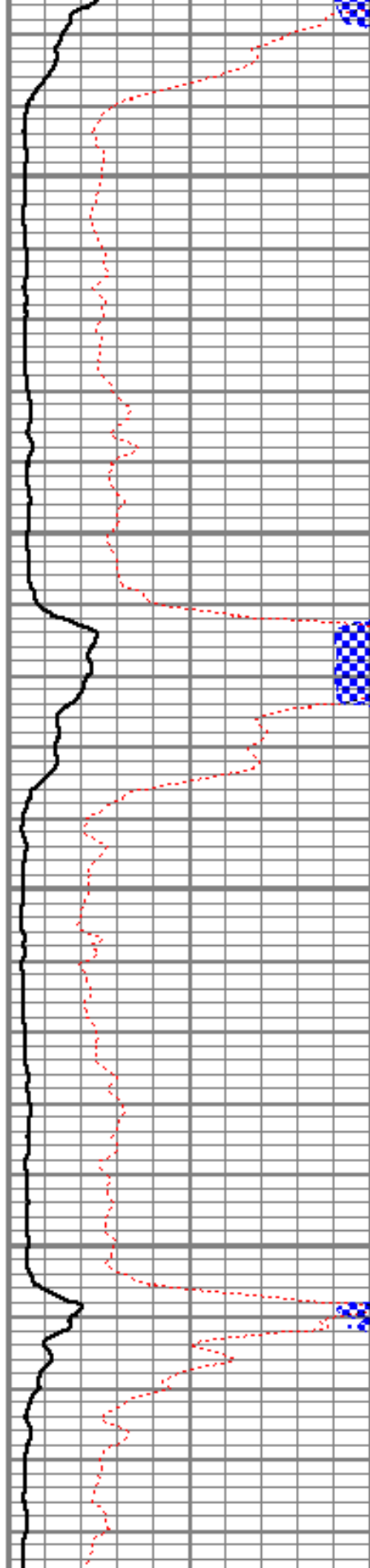


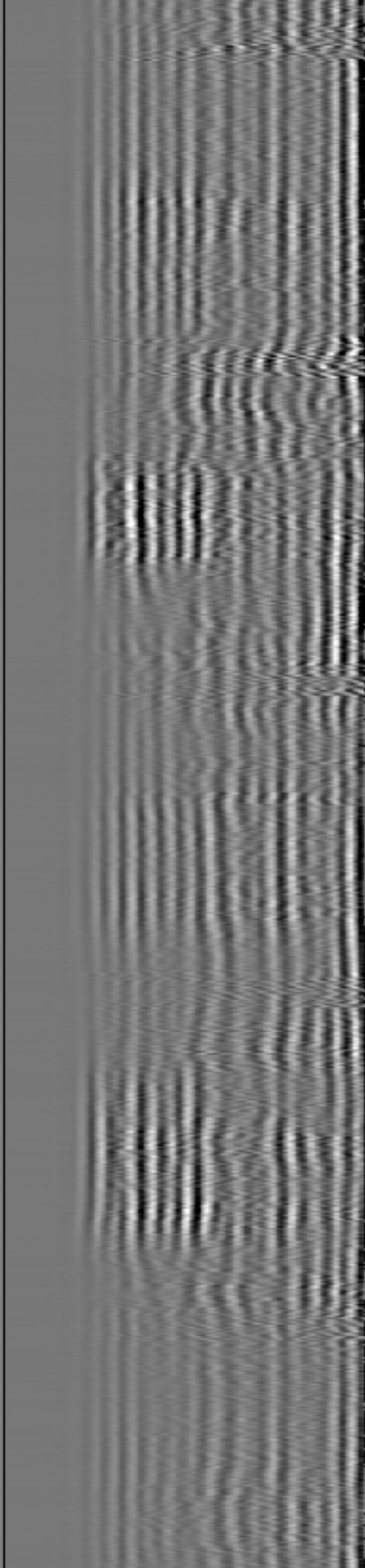
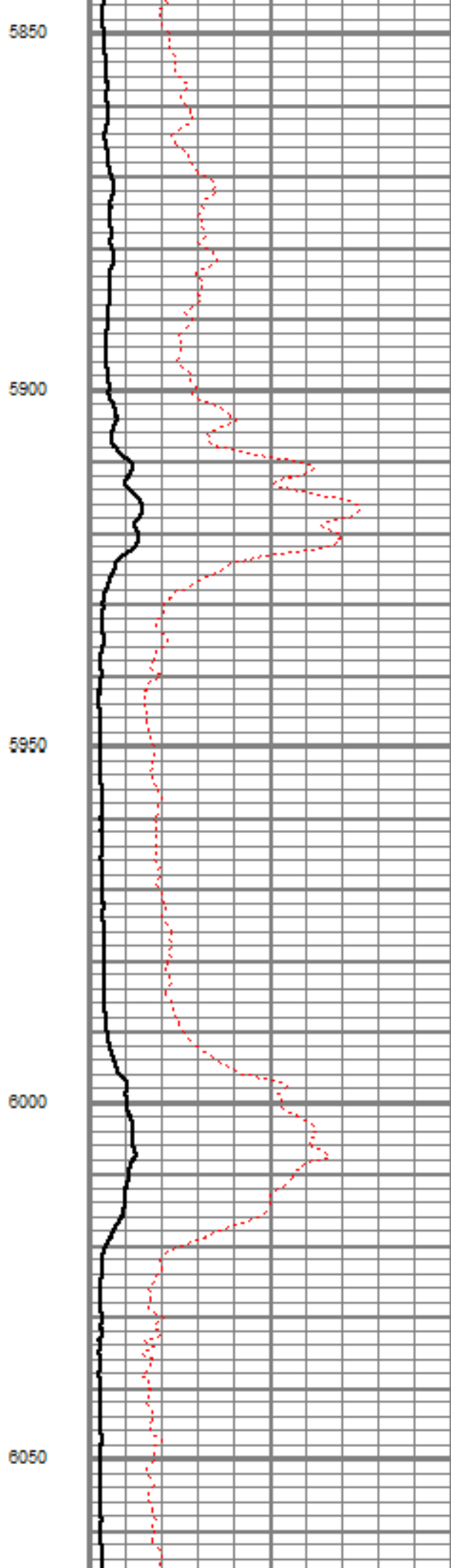
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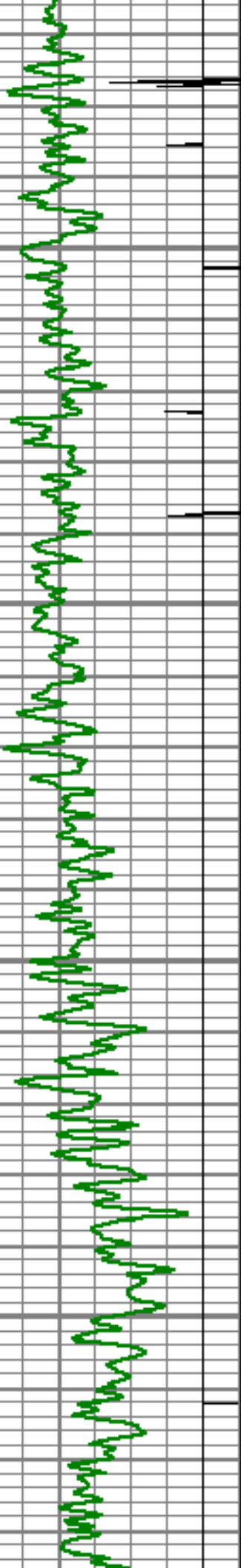
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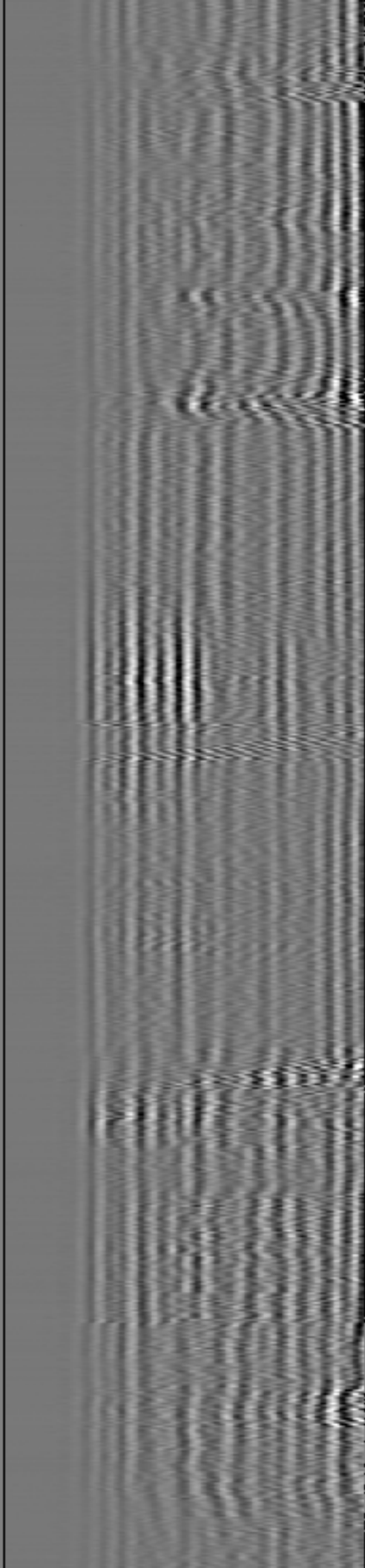
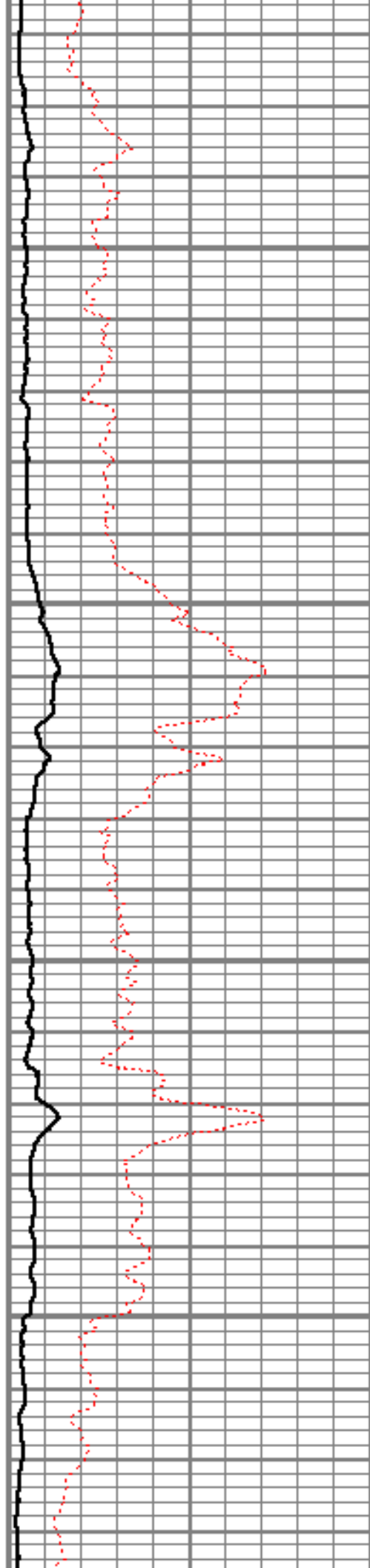


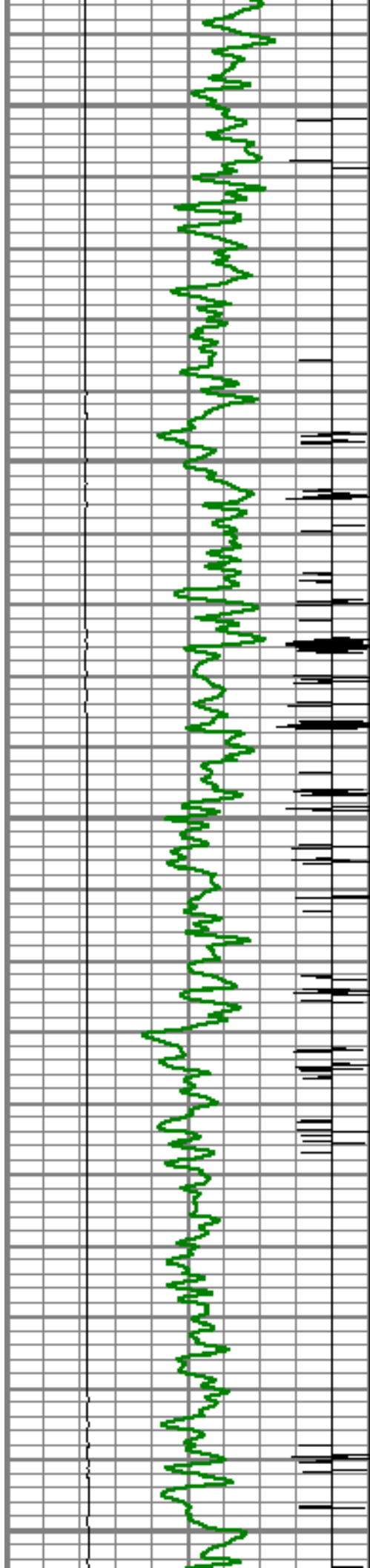
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6150

6200

6250





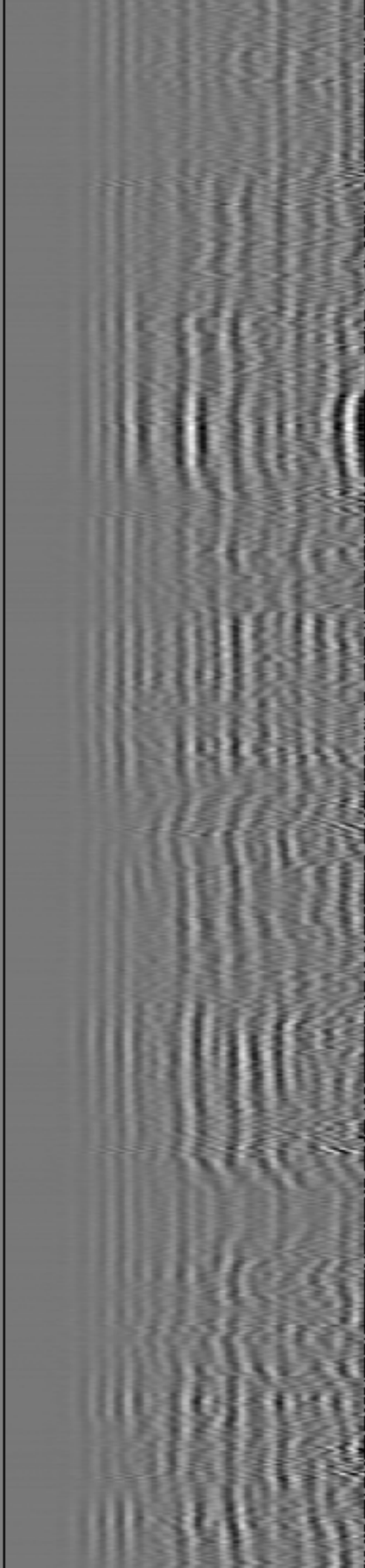
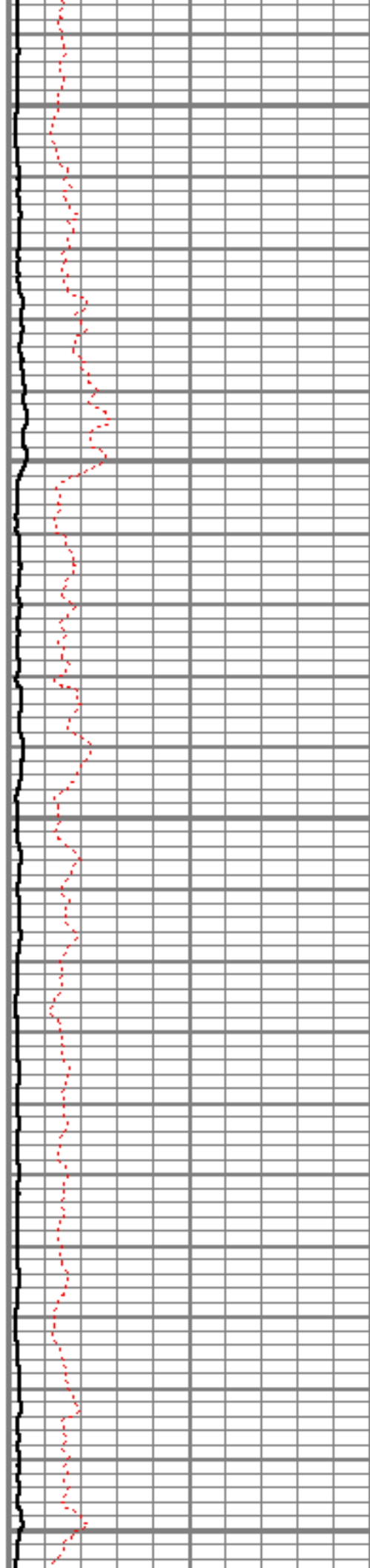
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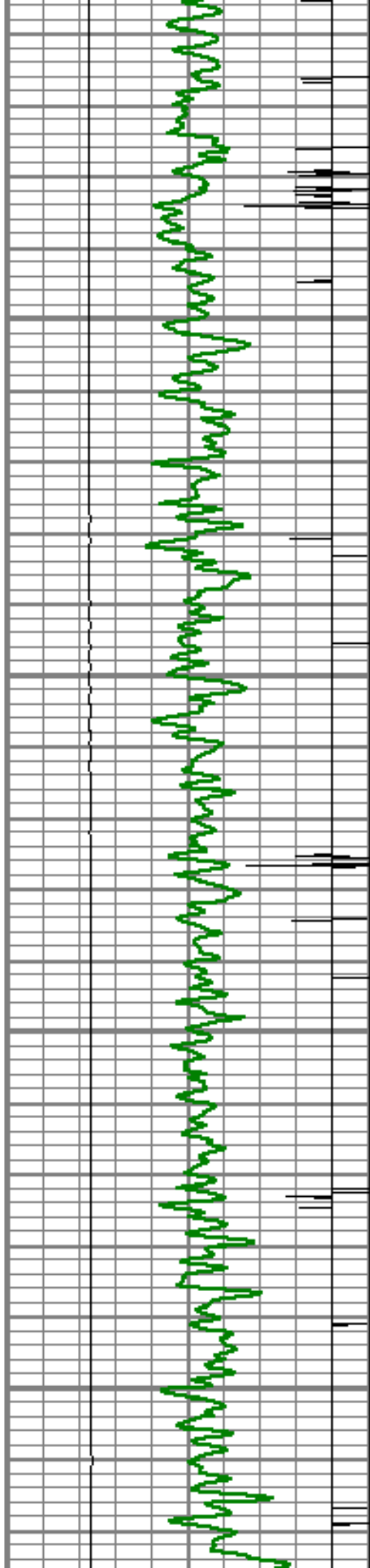
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6400

6450

6500



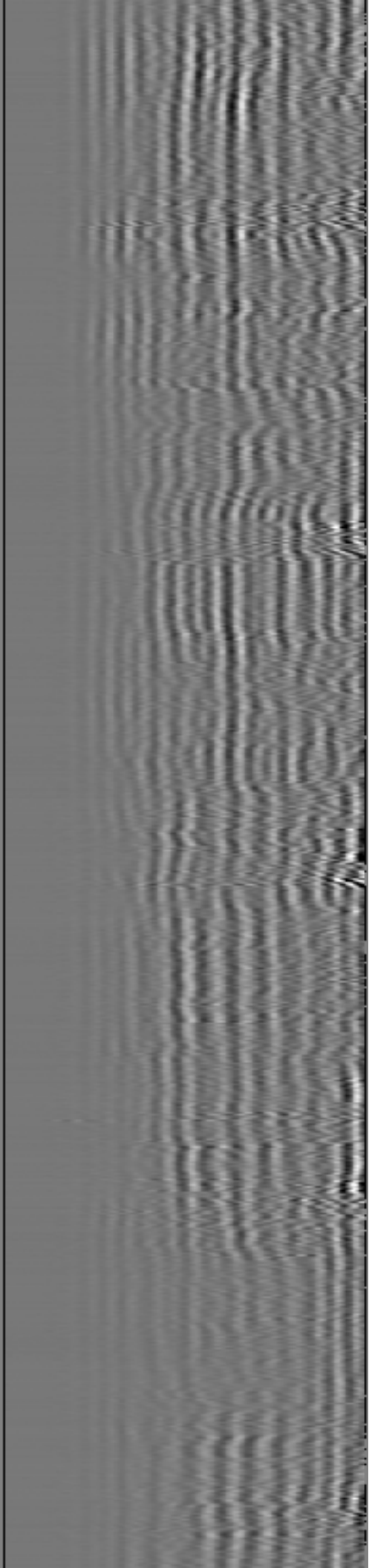
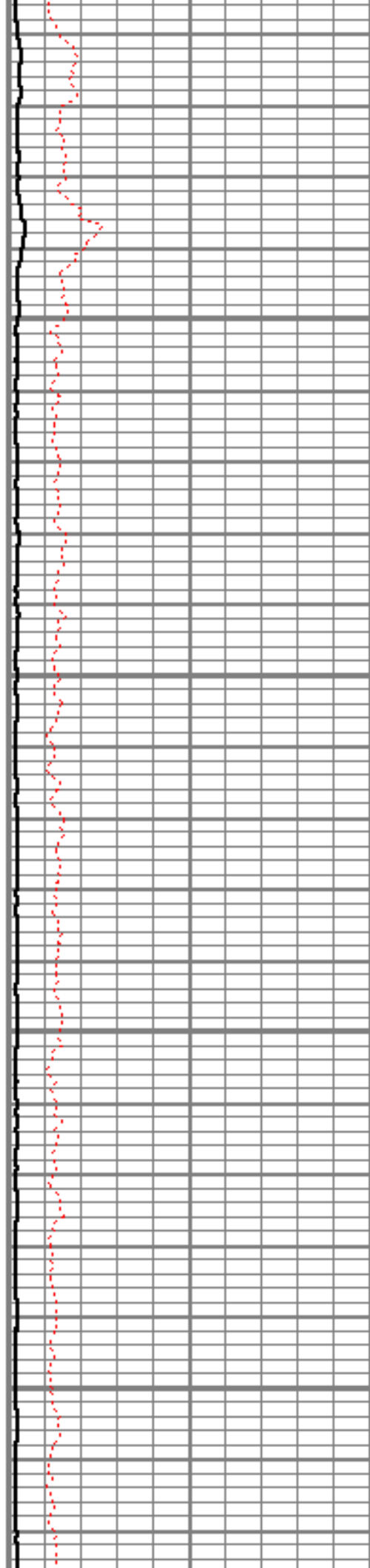


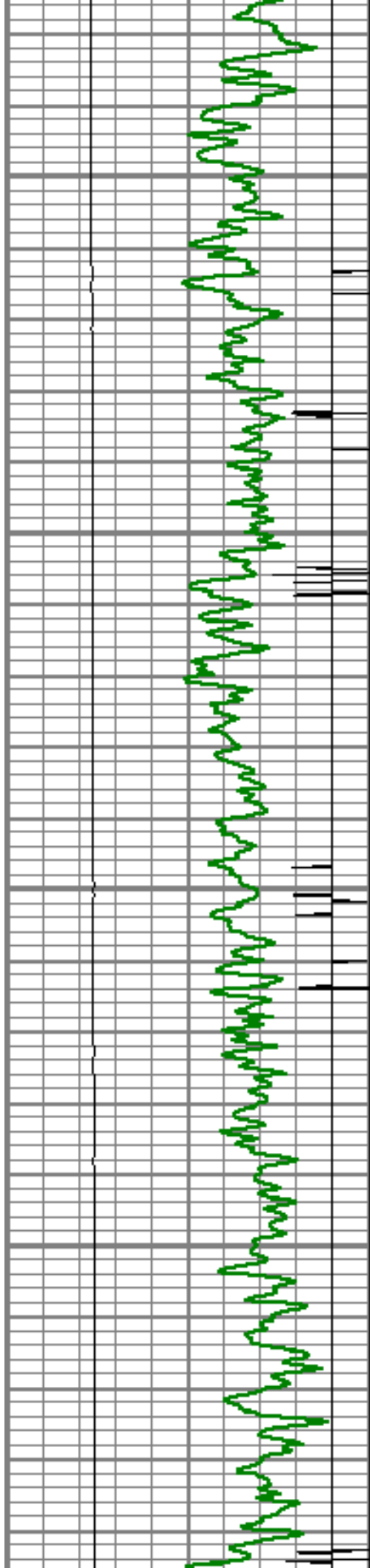
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6700



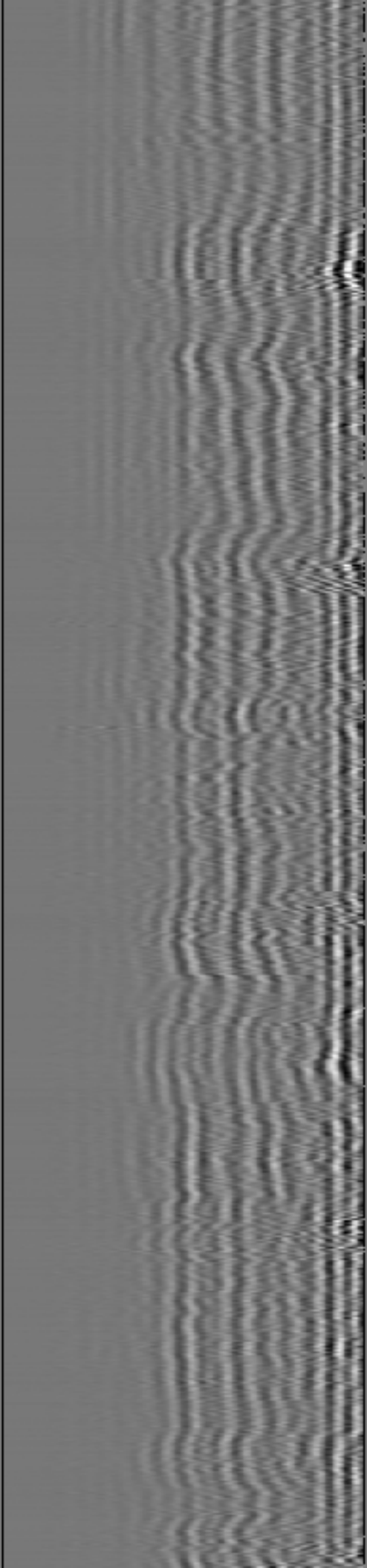
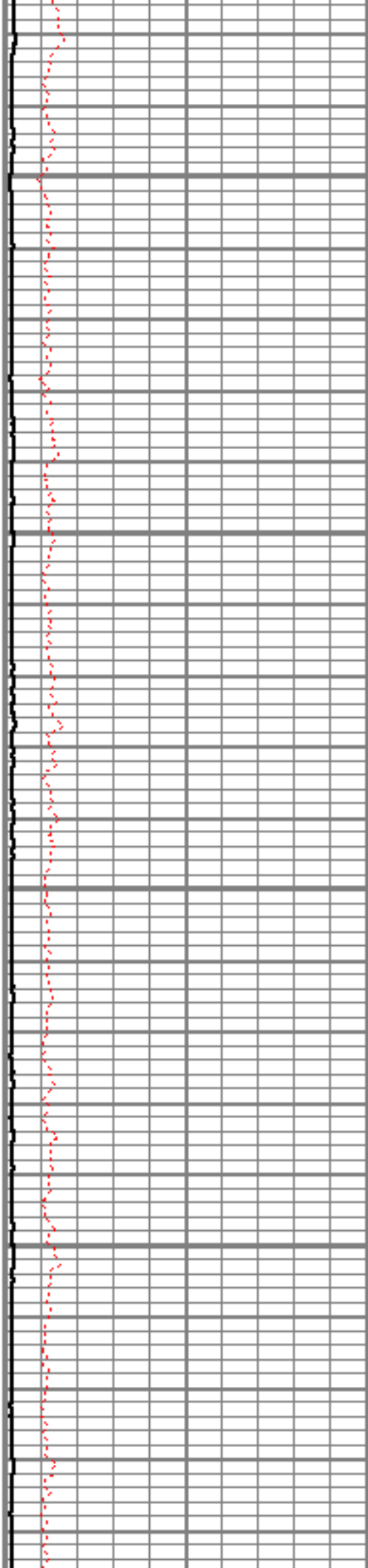


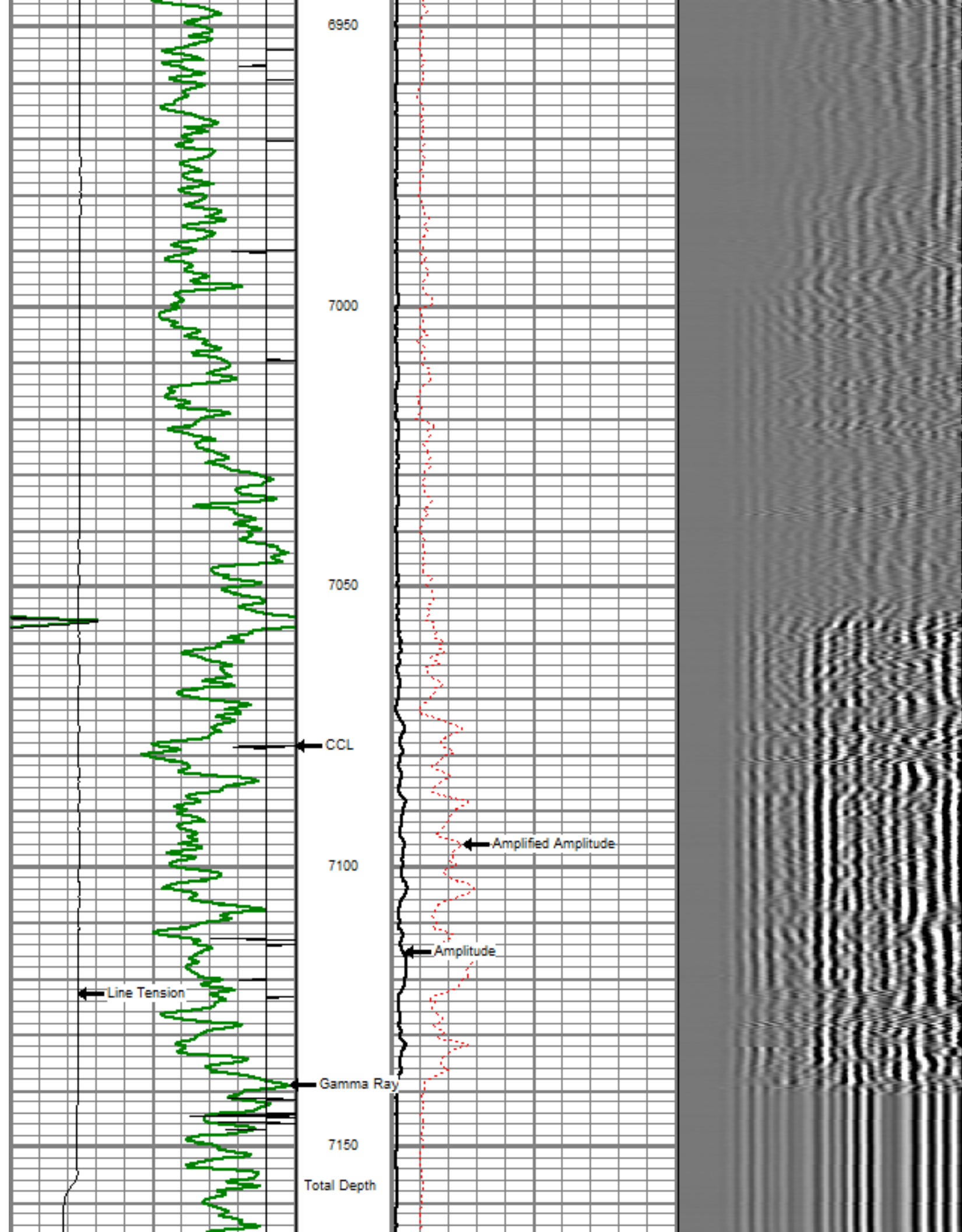
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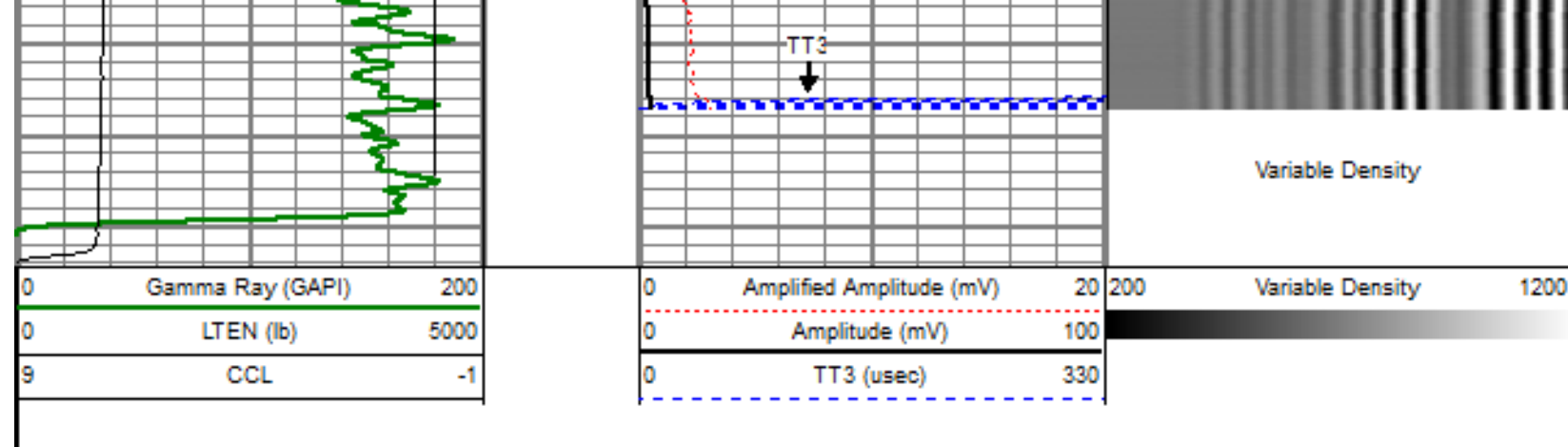
6800

6850

6900








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	17.25		CBL-PRB_CBL_DIGITAL (PRB_CBL_DIG_28.77 2) Probe 2.75" Dual Receiver Bond	2.75	2.75	60.00
WVF5	16.25					
			Centralizer-Probe (CENT-PROBE-2) Probe Bowspring Centralizer	2.88	2.75	10.00
CCL	8.58		CCL-PRB_CCL_6MAG (PRB_CCL_6MAG_02.71) Probe 6 Magnet CCL	2.75	2.75	
			GR-PROBE_GR (PRB_GR_275_01) Probe stand alone Gamma Ray Tool	4.54	2.75	30.00

GR	3.63					
TEMP	0.17			TEMP-Comprobe (TEMP_CMPRB_1375) Positive pulse Temp tool	0'2.88	1.38 15.00
Dataset: flanigan.db: field/well/run1/pass9 Total Length: 25.67 ft Total Weight: 126.50 lb O.D. 2.75 in						

	Company	ENCANA OIL & GAS (USA)
	Well	FLANIGAN 1C-6H
	Field	WATTENBERG
	County	WELD
	State	COLORADO