

Company		Verdad Resources	
Well		Wuertz 1201-18H	
Field		Wattenberg	
County		Weld	
State		CO	
Location:		API #: 05-123-49733	
Permanent Datum		Surface: 281' FSL & 2311' FWL	
Log Measured From		Ground Level	
Drilling Measured From		G.L.	
SEC 12		TWP T1n	
RGE		R65W	
Elevation		4981	
K.B. ---		D.F. ---	
G.L. 4981			
Date		07/23/21	
Run Number		One	
Depth Driller		17760'	
Present Depth Driller		N/A	
Depth Logger		8017'	
Bottom Logged Interval		8017'	
Top Log Interval		Surface	
Fluid Level		Surface	
Type Fluid		Water	
Max. Recorded Temp.		231	
Estimated Cement Top		930'	
Equipment Number		223	
Location		Johnstown	
Recorded By		Noah Wells	
Witnessed By		Jason Turner	
Borehole Record		Casing Record	
Run Number		Bit	
From		To	
Size		Weight	
9 5/8"		36#	
5 1/2"		17#	
Surface		Surface	
17760'		1784'	

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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.

WARRIOR 7.0 SOFTWARE - Comments

LOG WAS CORRELATED TO SURFACE

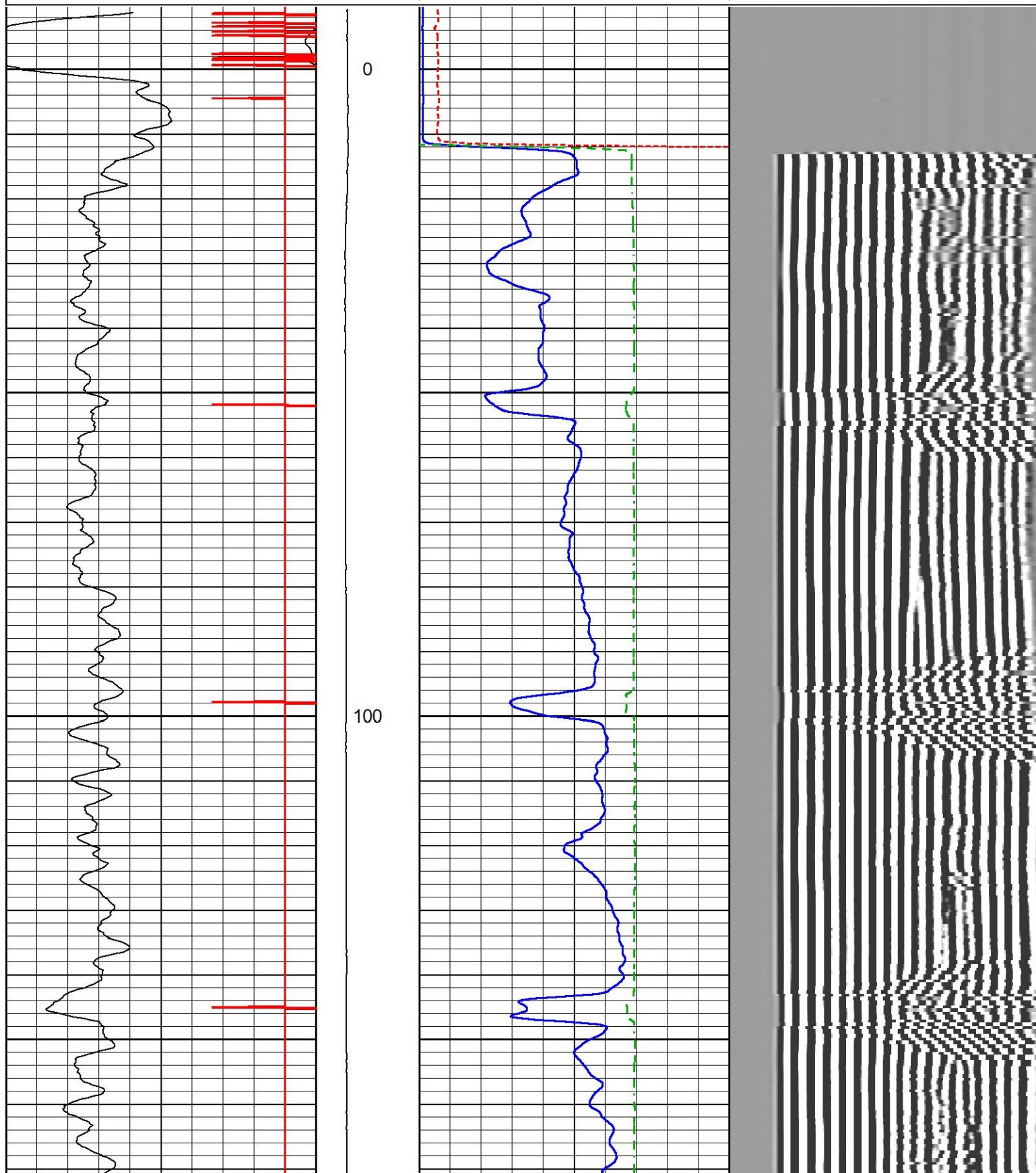
MAIN PASS SCALE 5"=100'

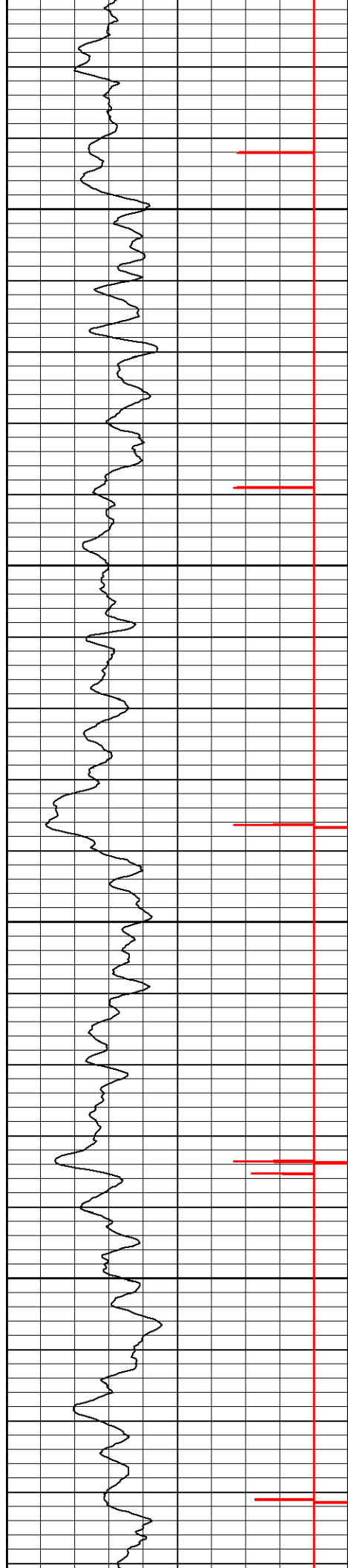
CSG PSI= STATIC MAIN PASS

CSG PSI= STATIC REPEAT PASS

Database File wuertz\_1201-18h.db  
 Dataset Pathname Wattenberg/Wuertz\_1201-18H/Log1/pass5.1  
 Presentation Format rmws\_dsc  
 Dataset Creation Sat Jul 24 12:43:13 2021  
 Charted by Depth in Feet scaled 1:240

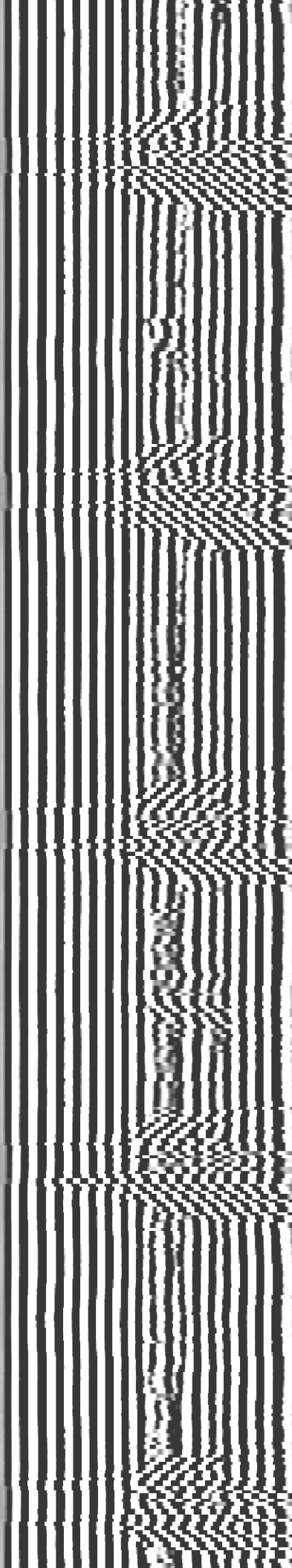
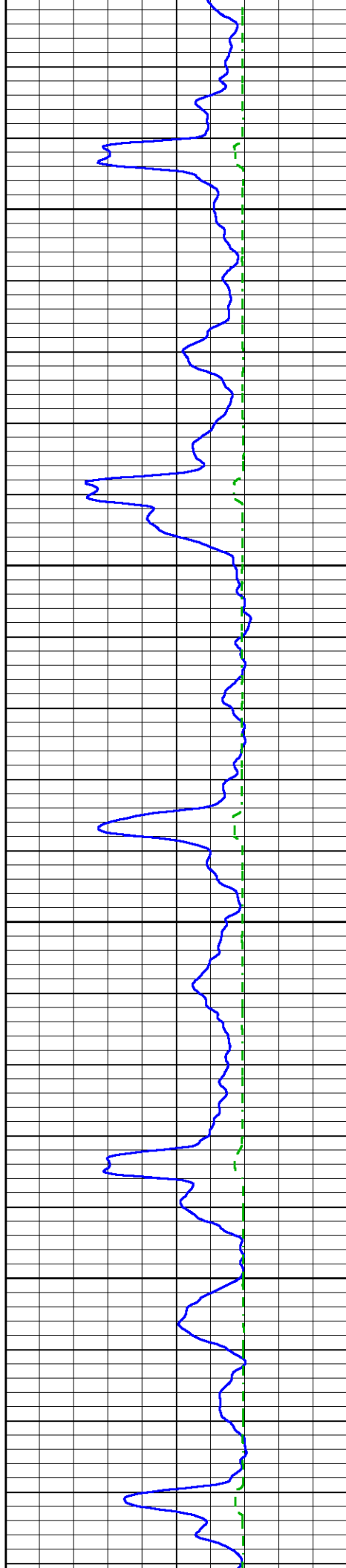
0	GR	150	LTEN	0	AMPx5 (mV)	20	200	VDL (usec)	1200
-27	CCL	3	0 (lb 1500)	0	AMP (mV)	100			
				380	TT (usec)	180			

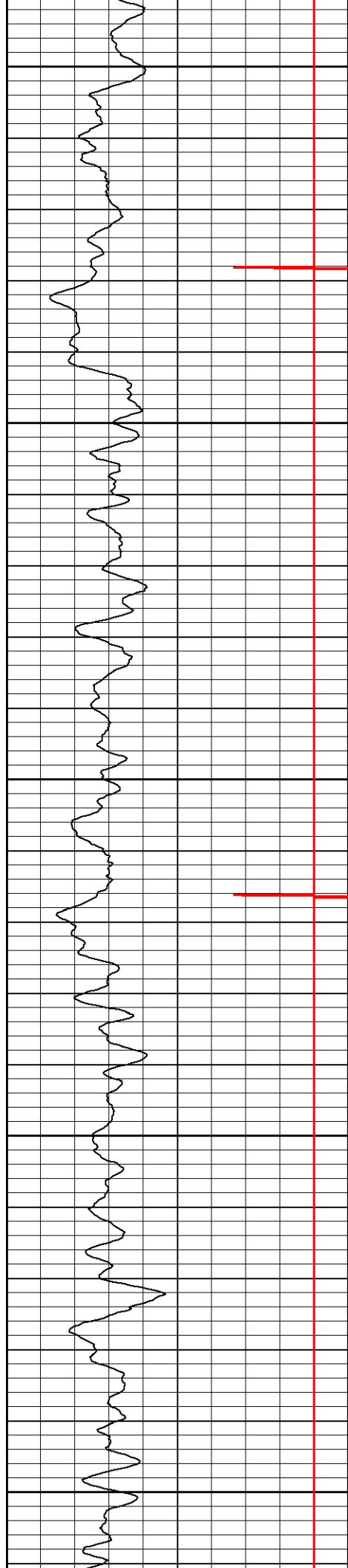




200

300

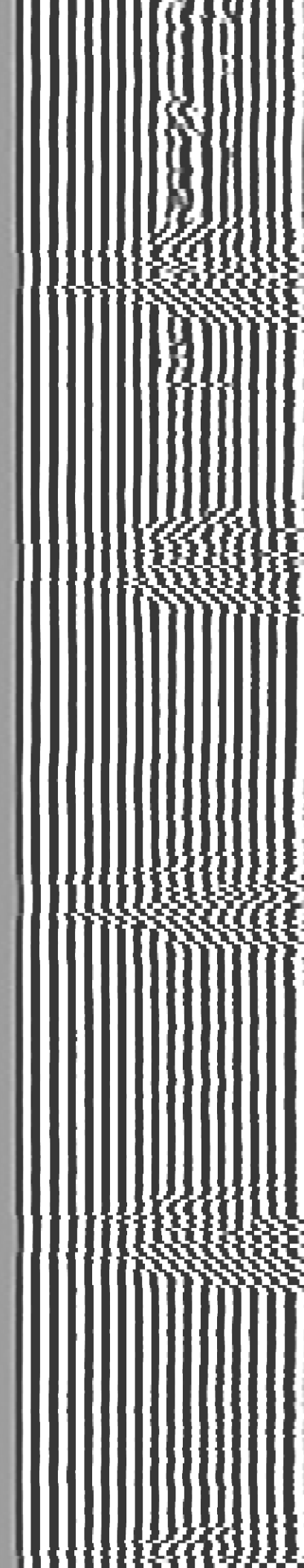
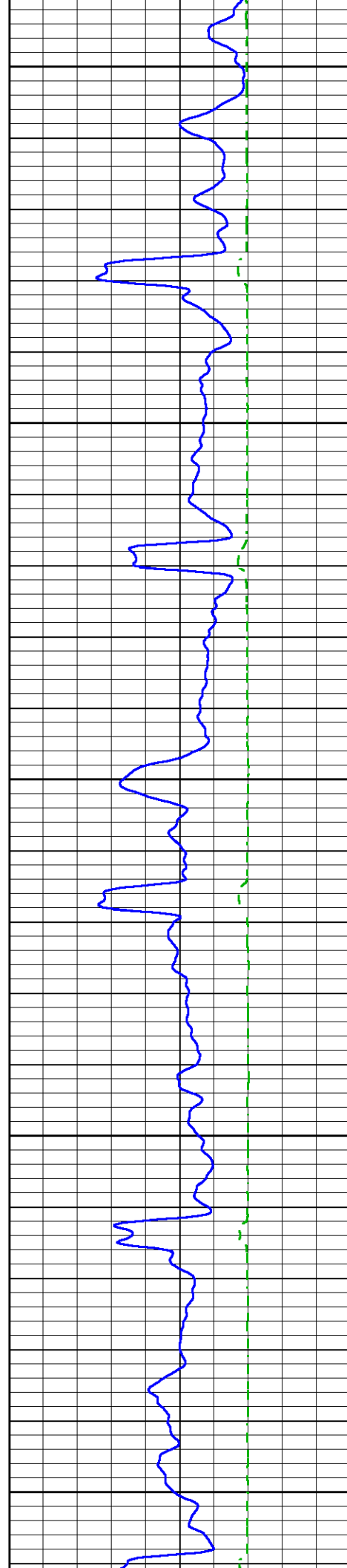


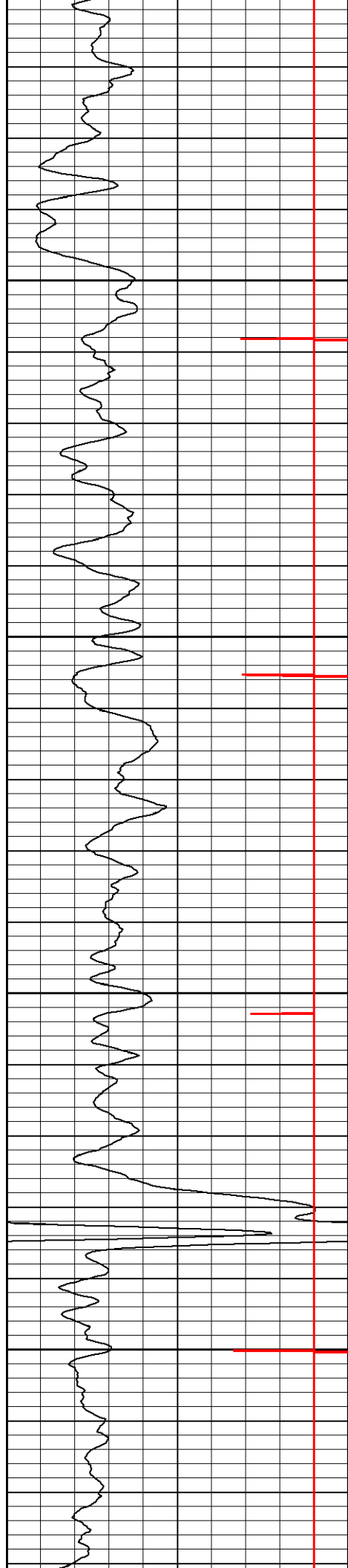


400

500

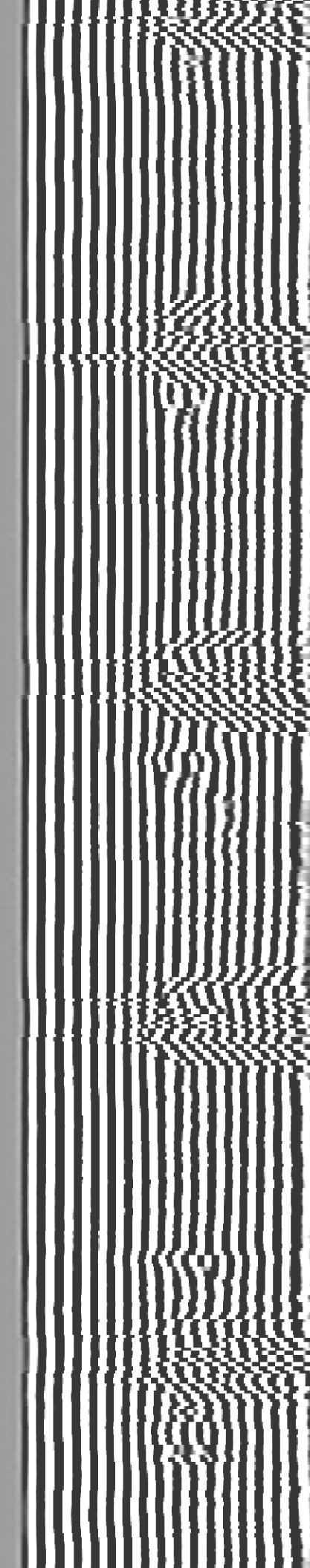
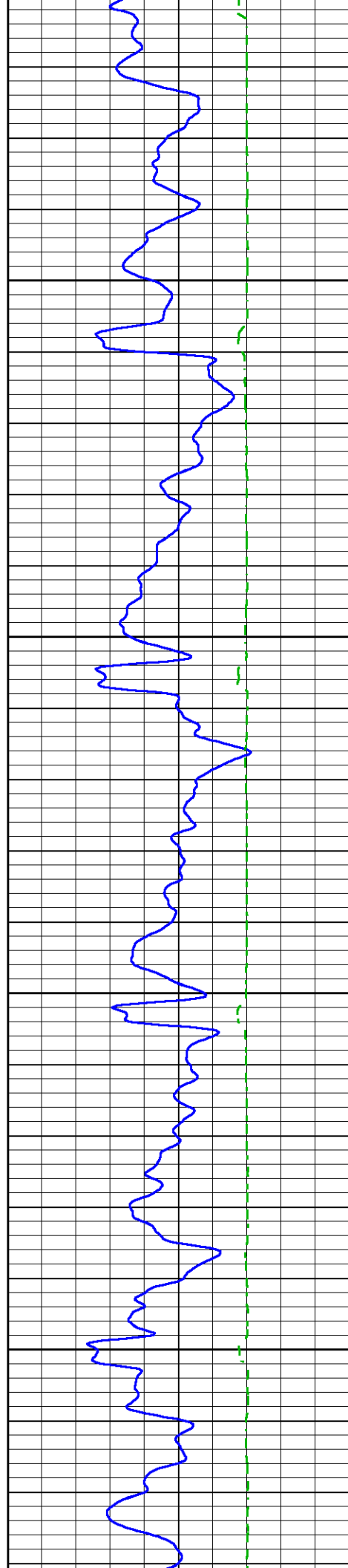
600





700

800

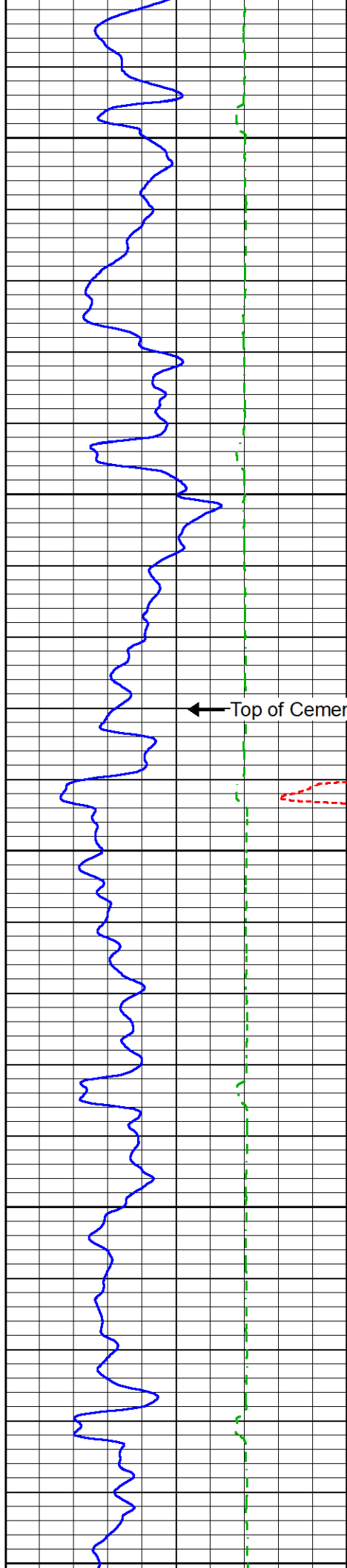




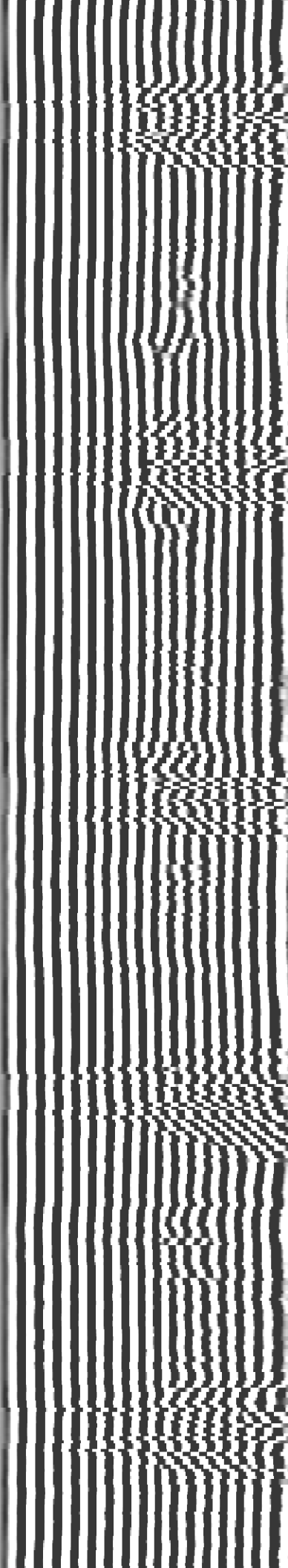


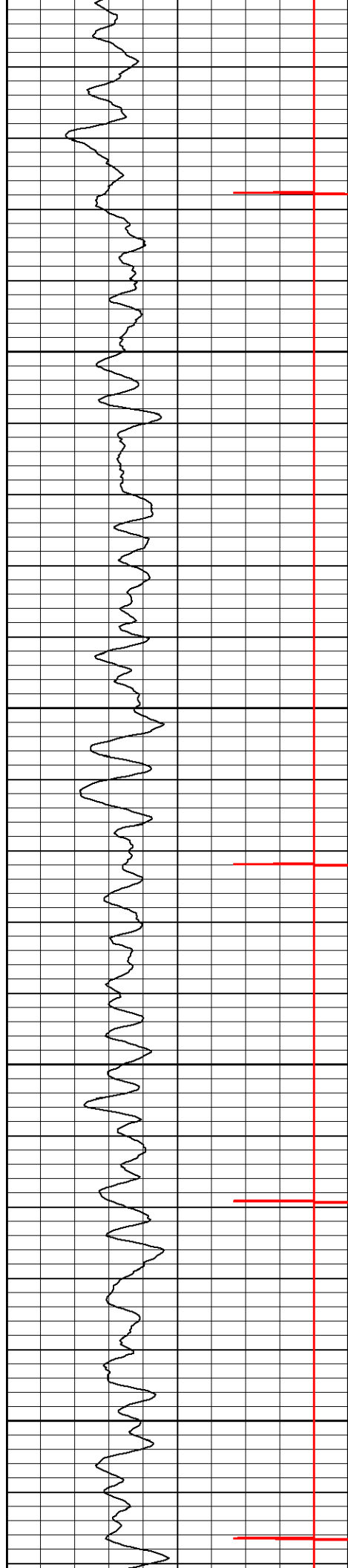
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1000



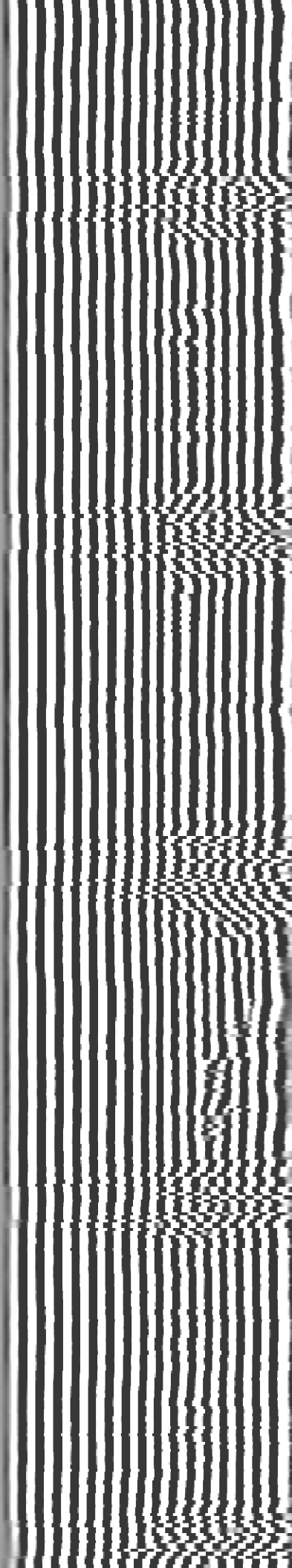
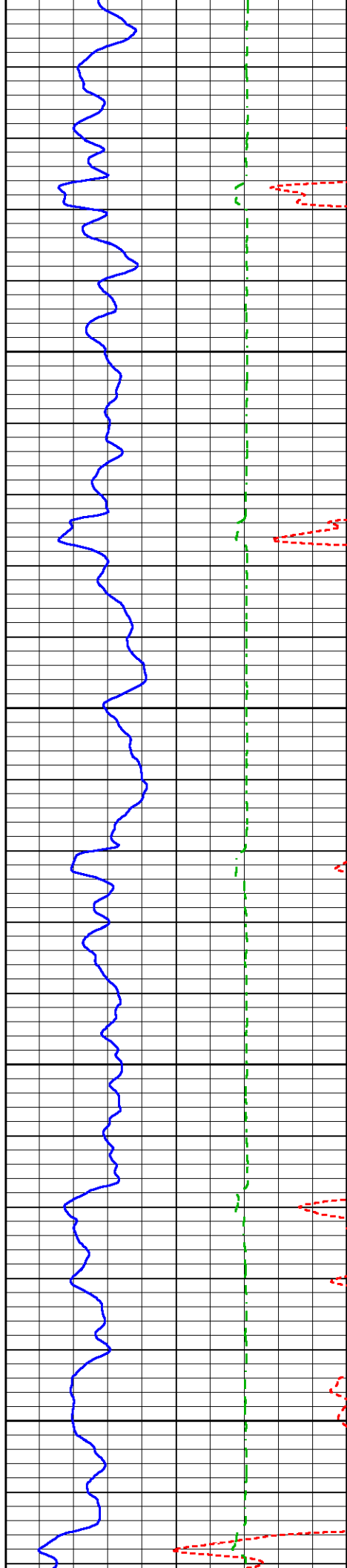
Top of Cement

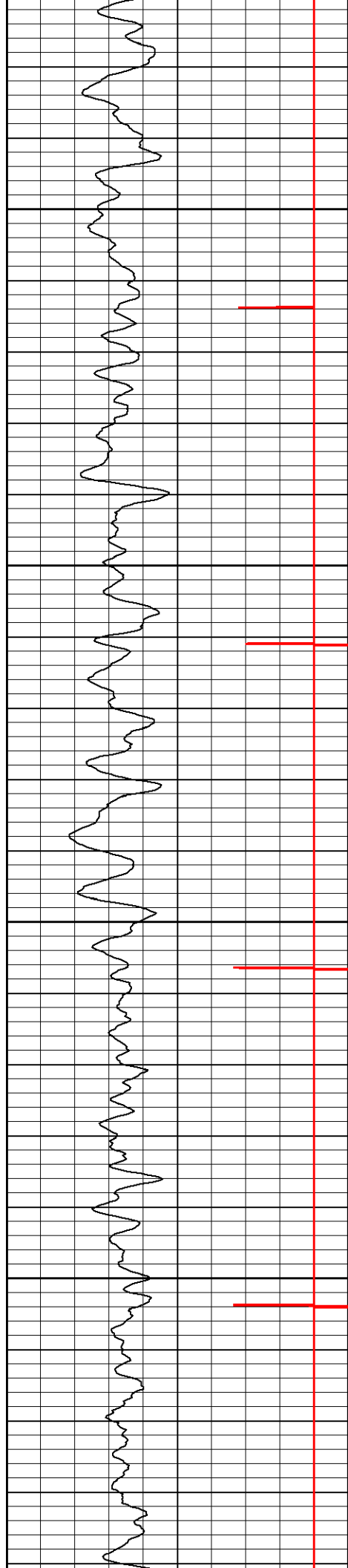




1100

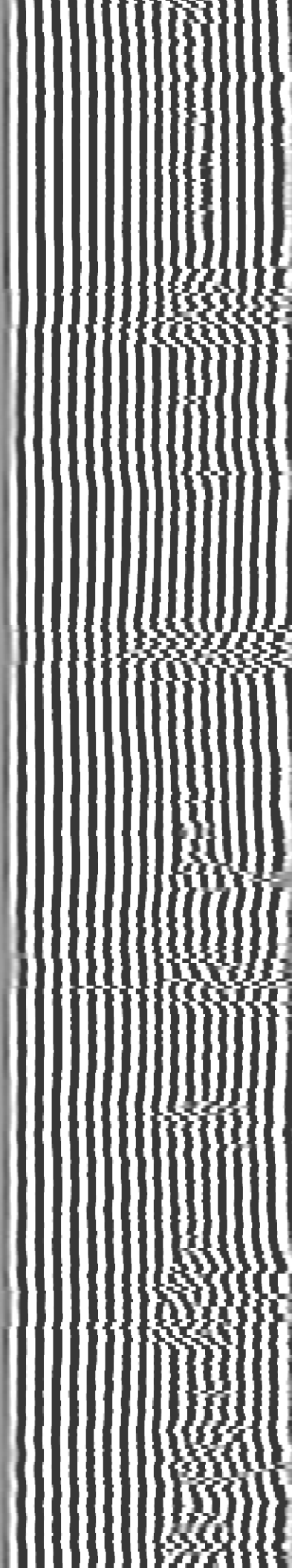
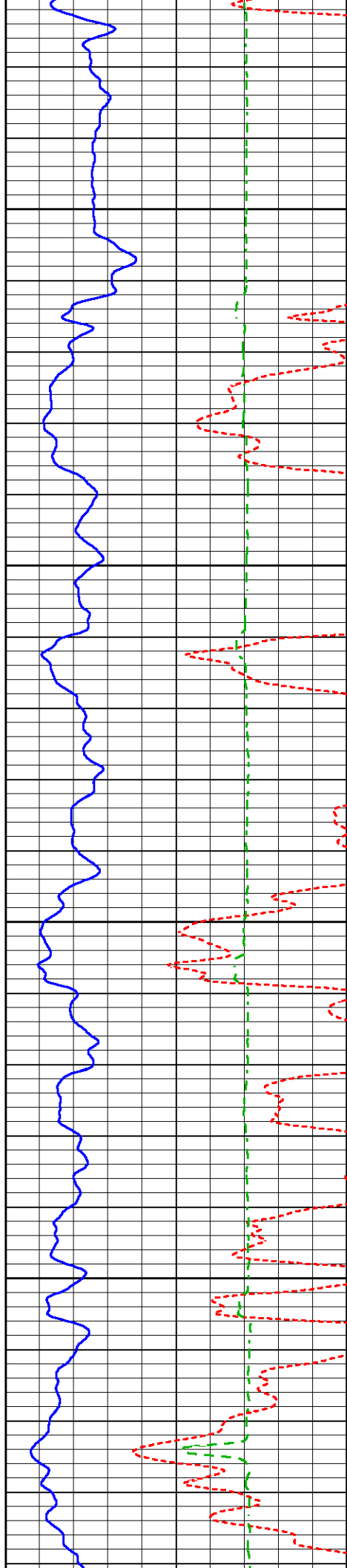
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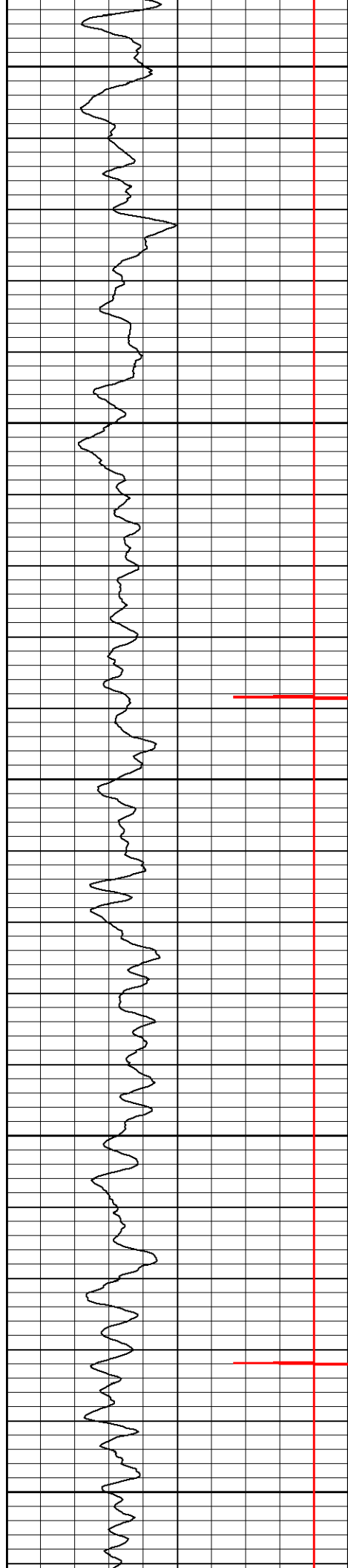


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1400



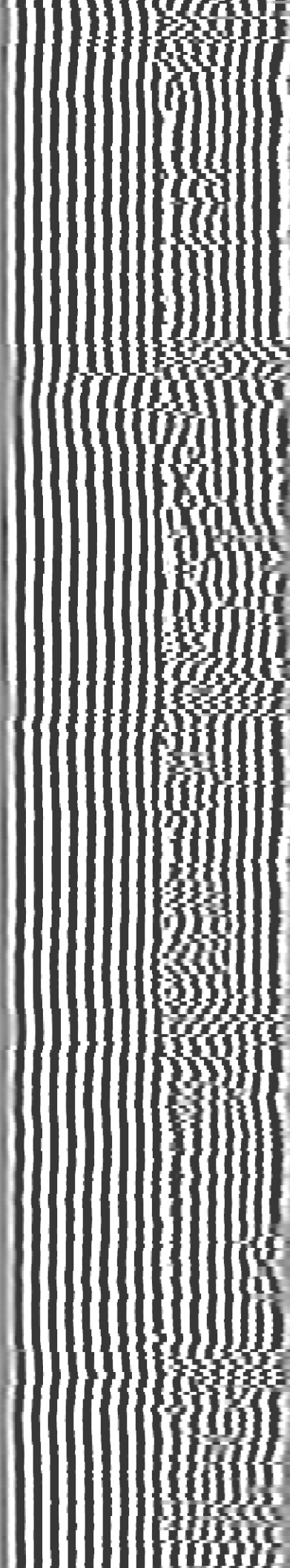
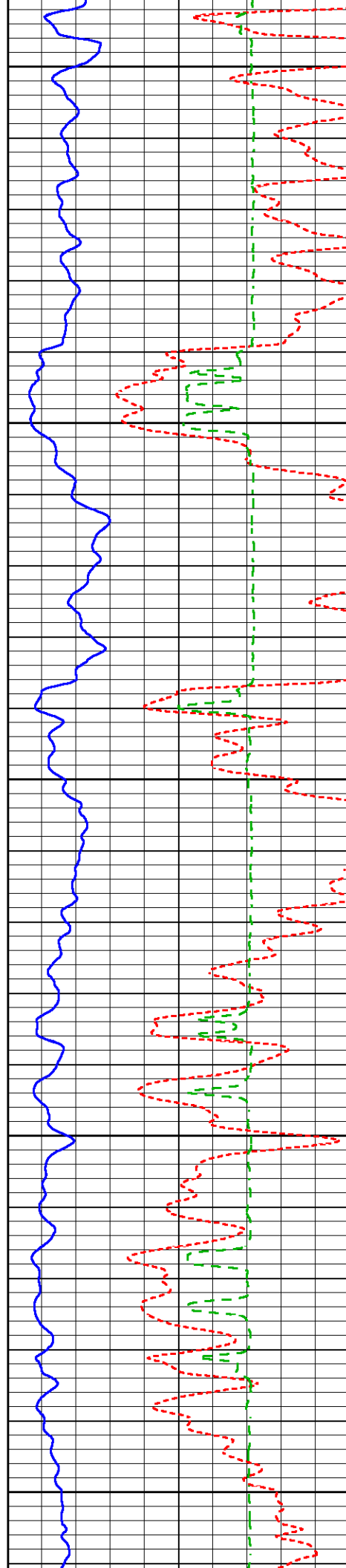


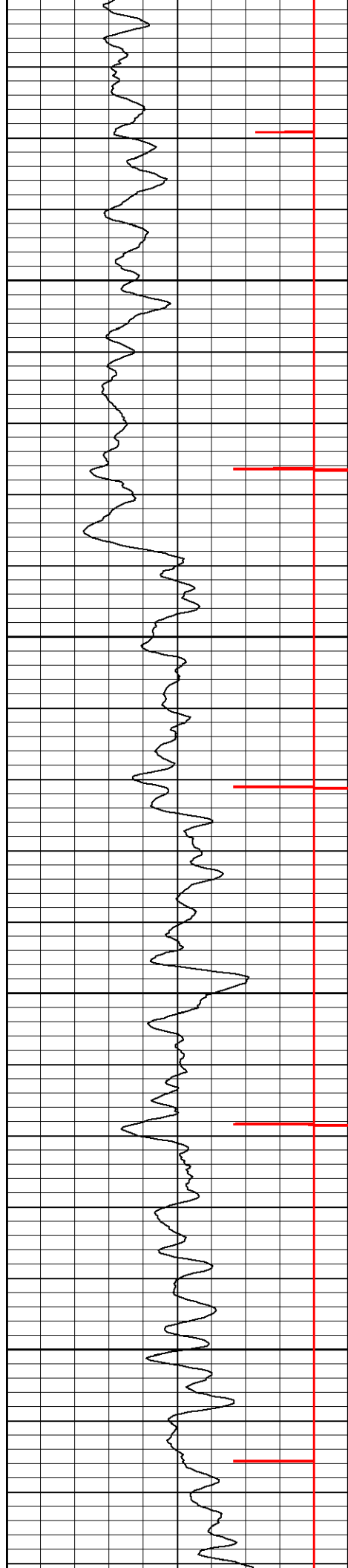


1500

1600

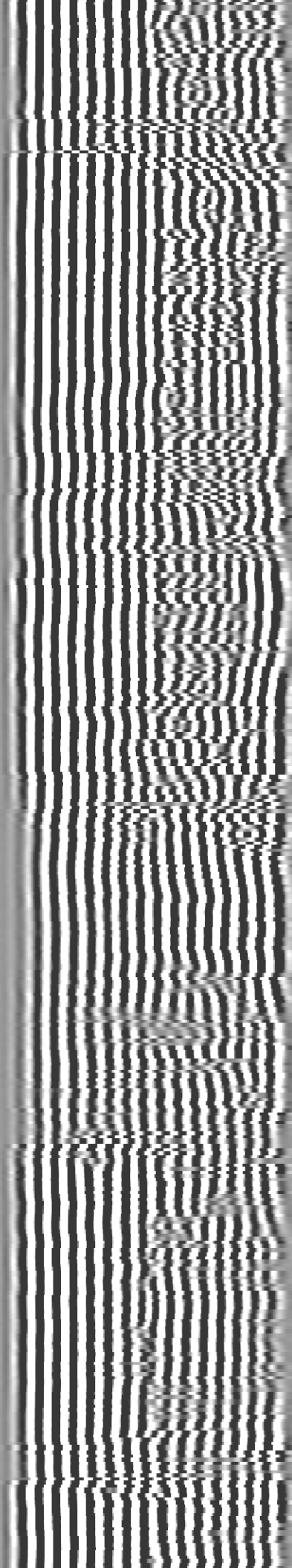
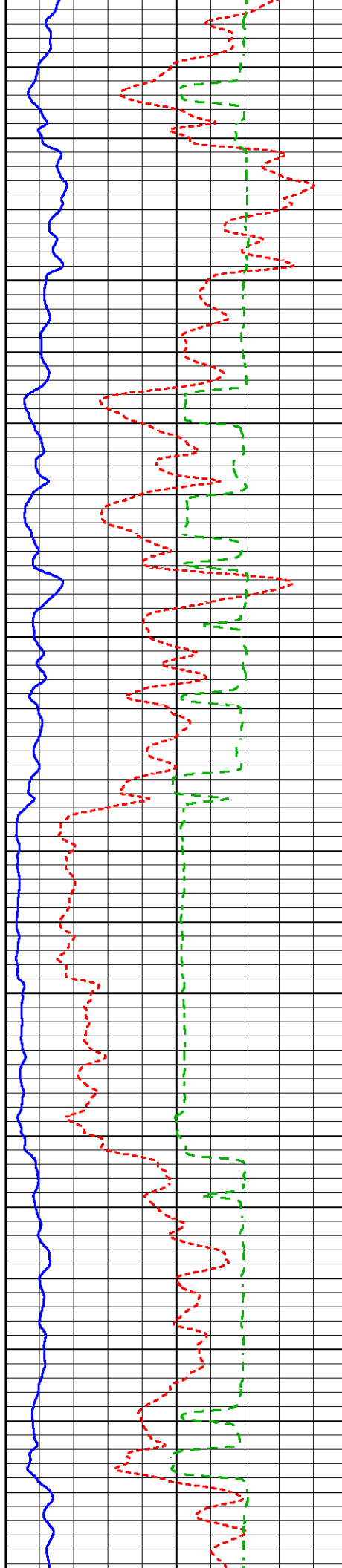
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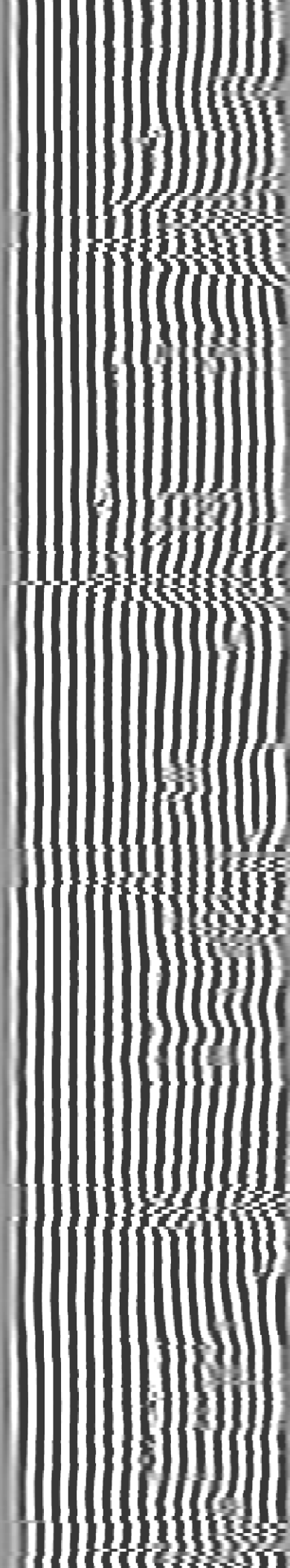
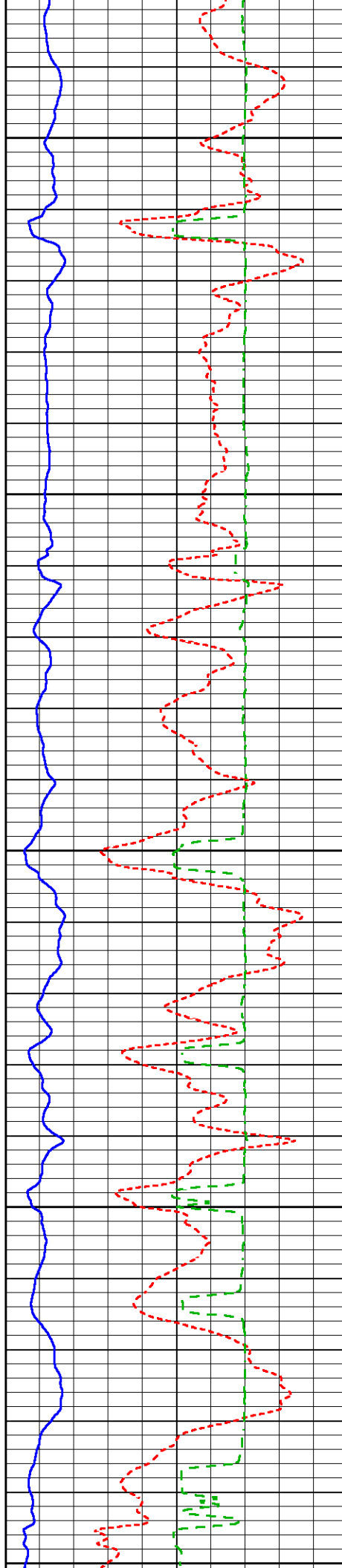
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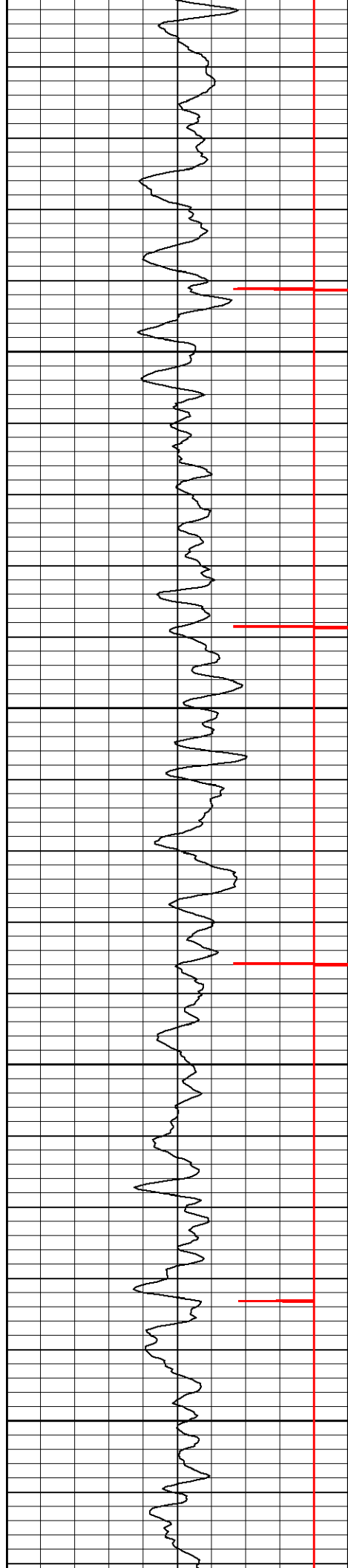




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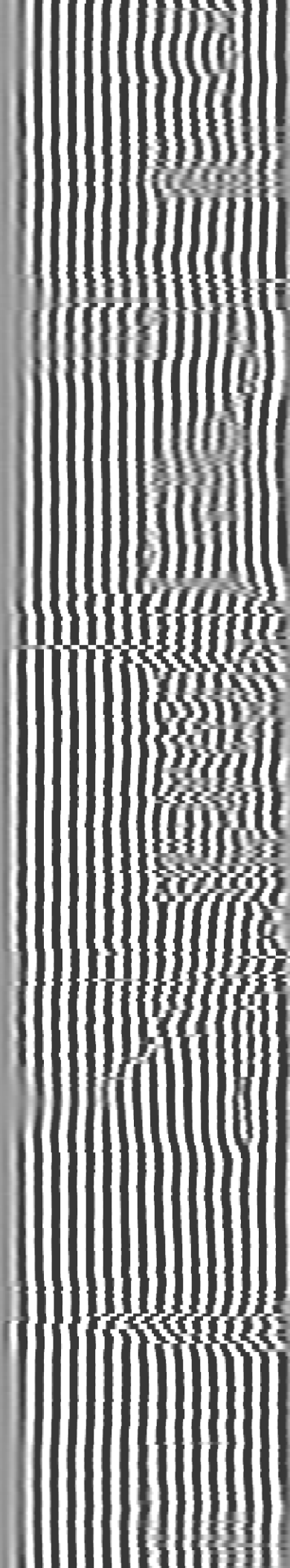
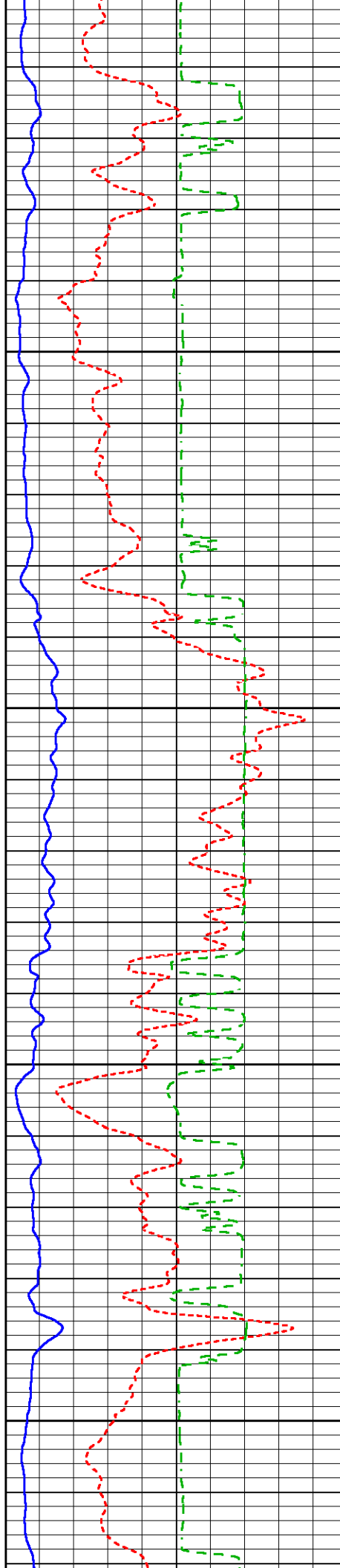
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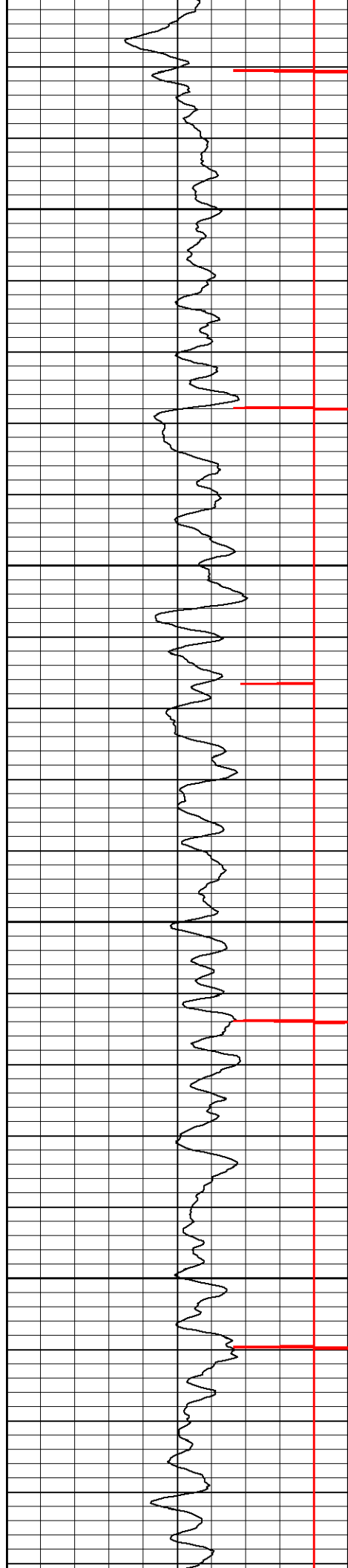




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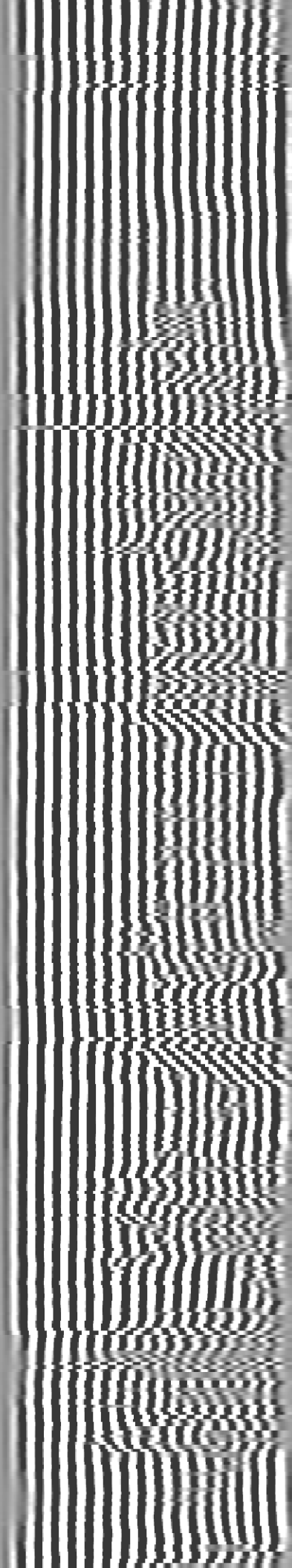
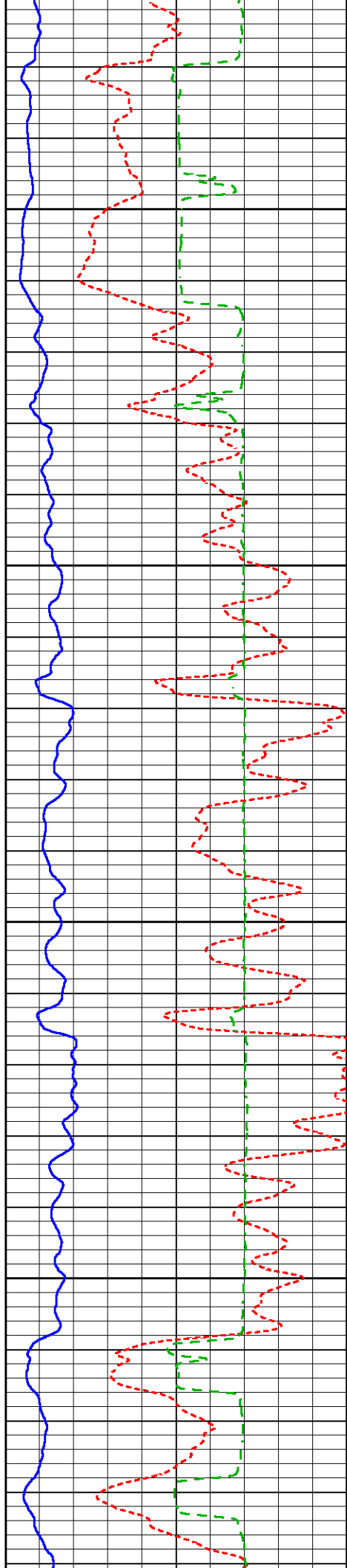
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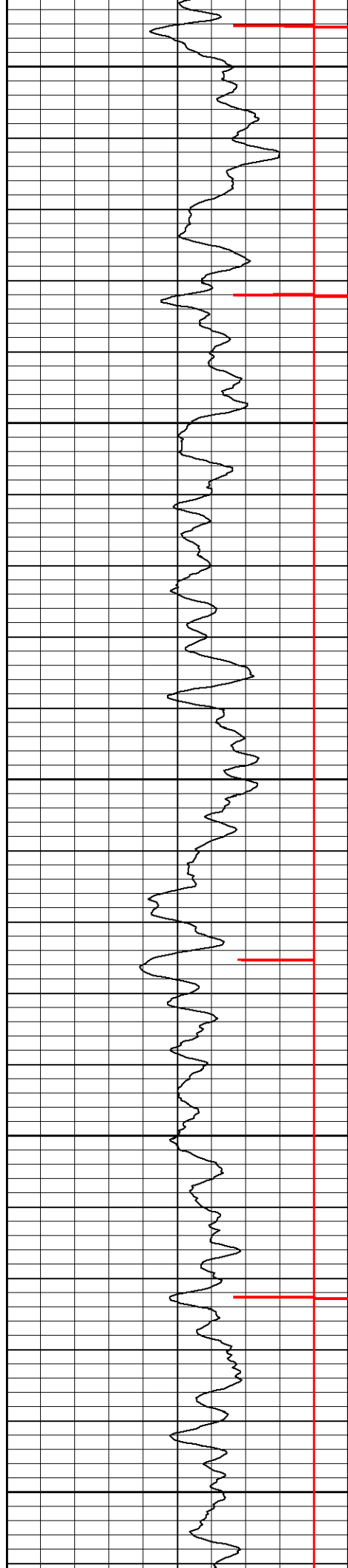




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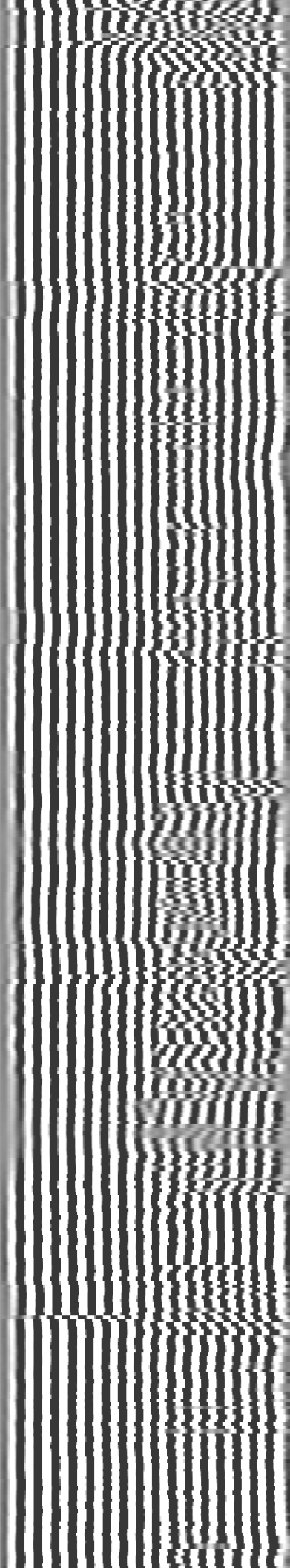
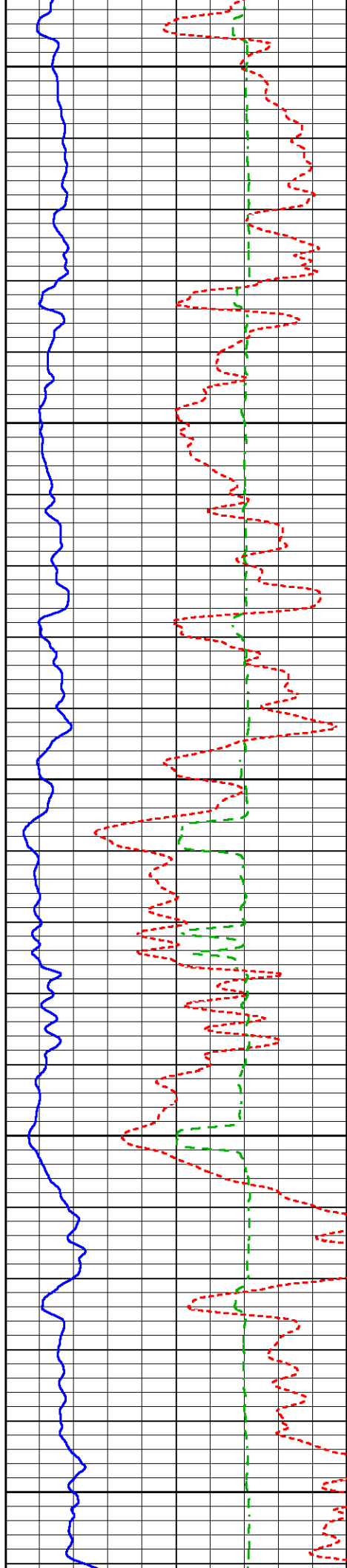




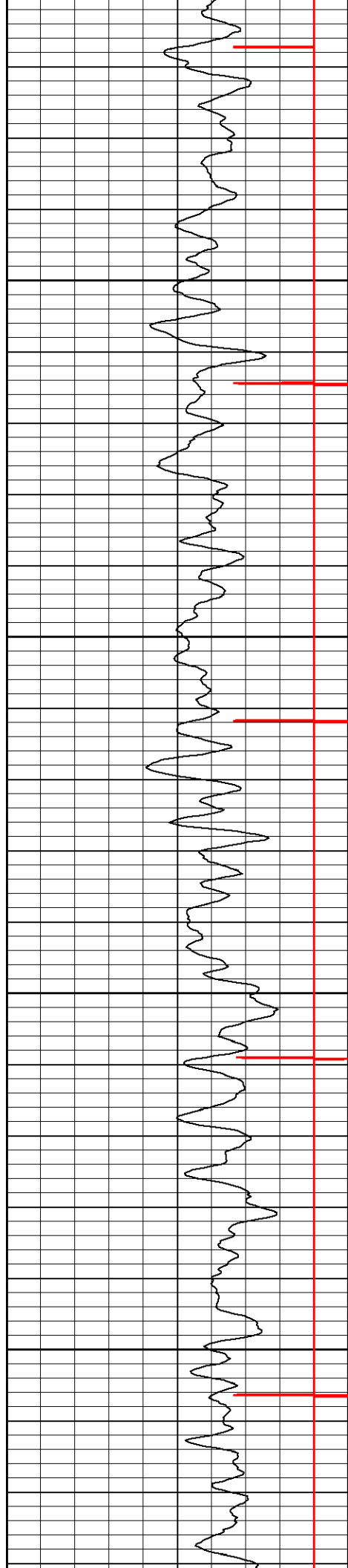
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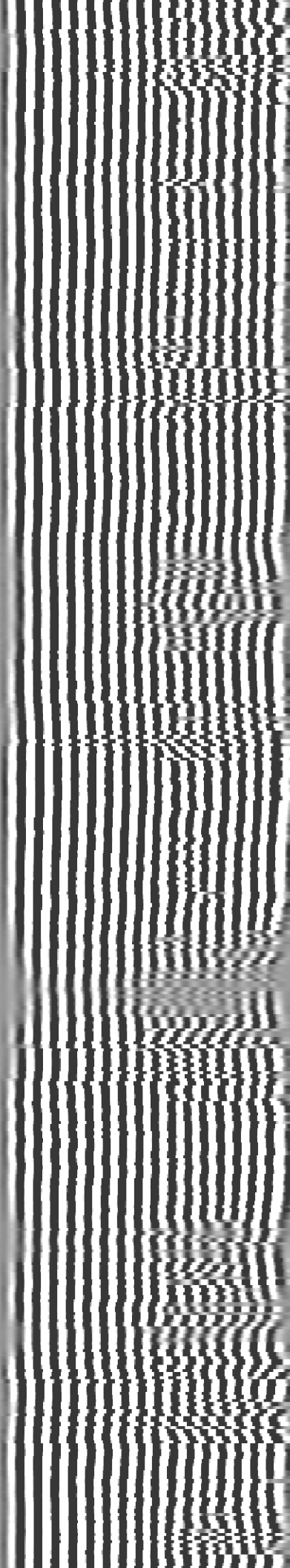
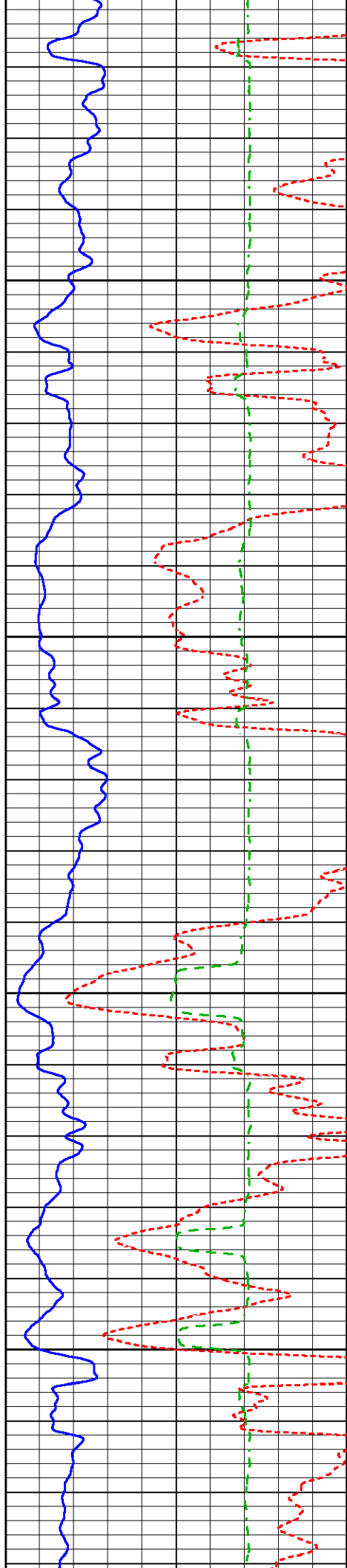


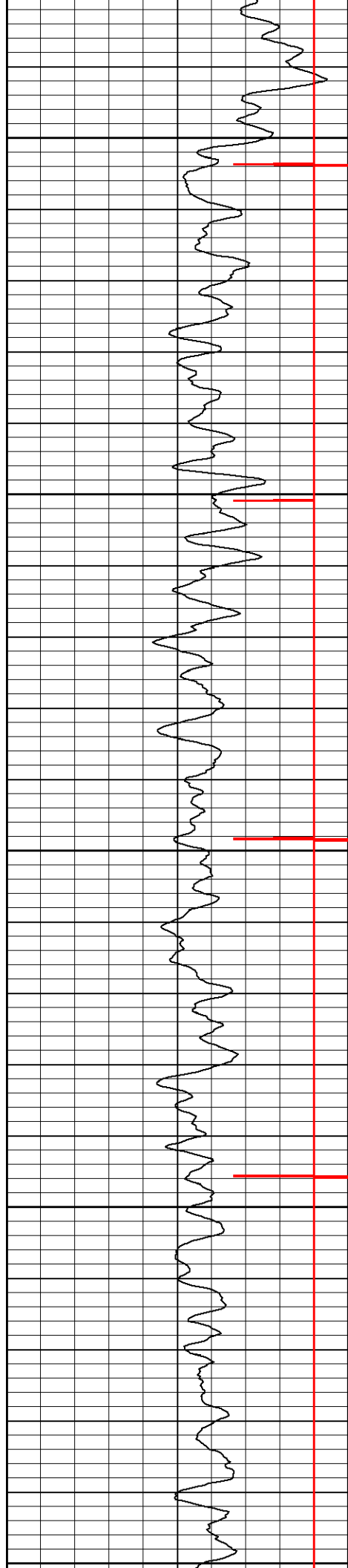




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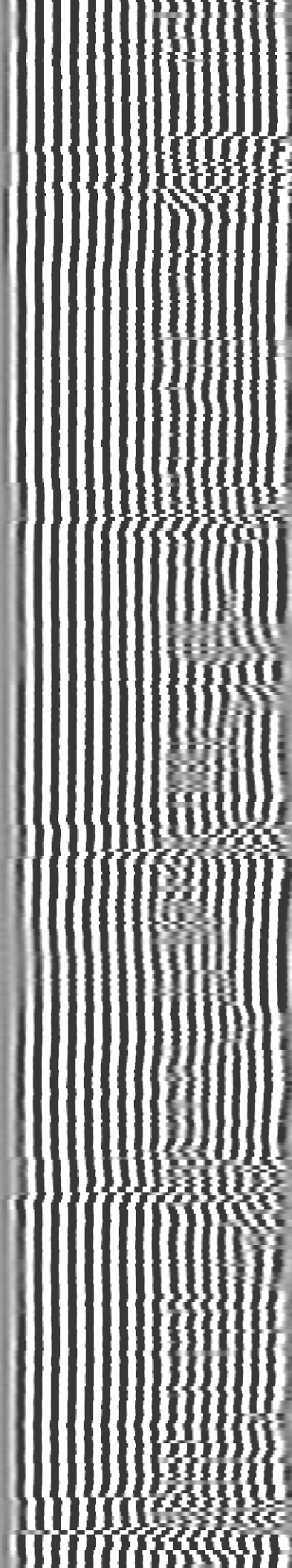
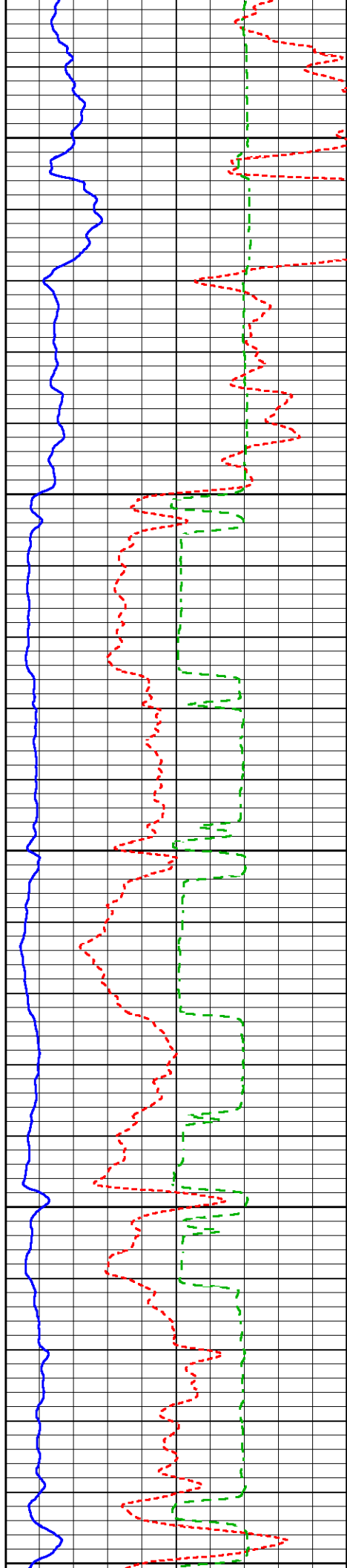
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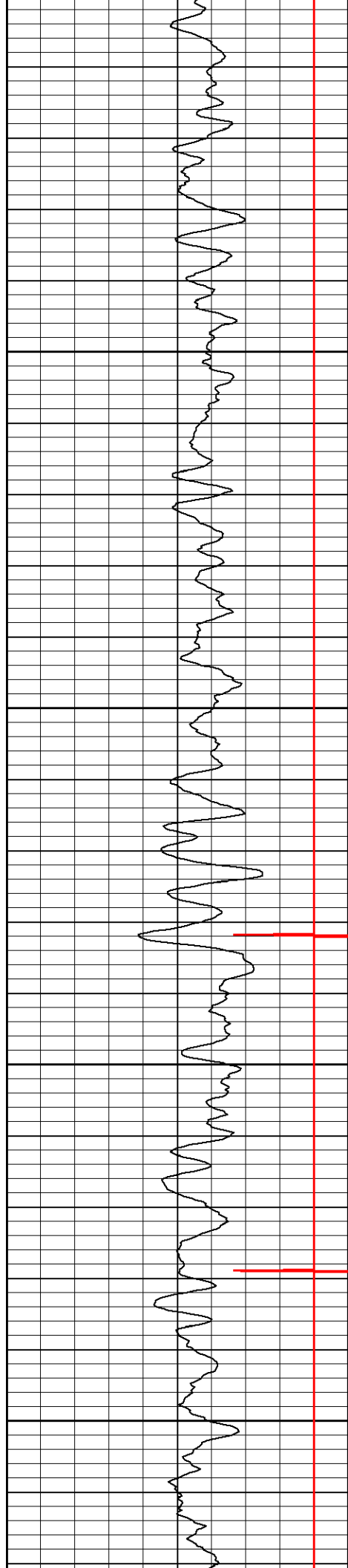




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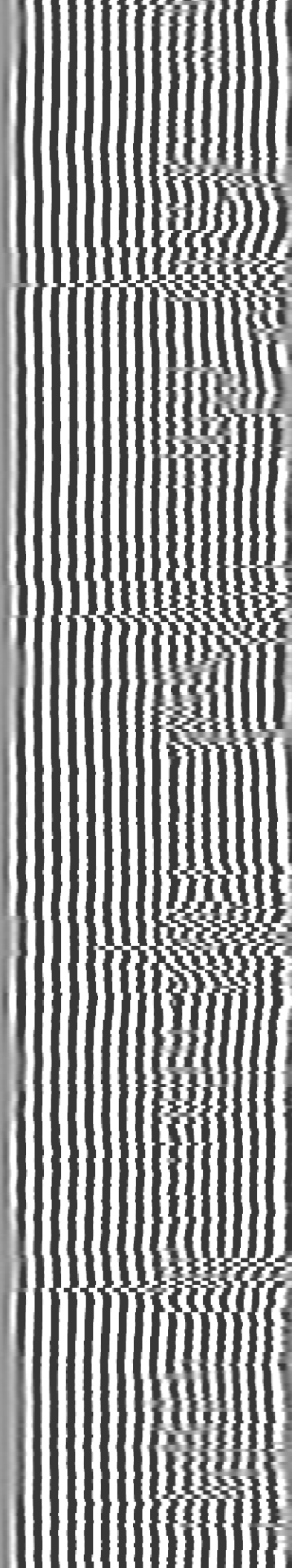
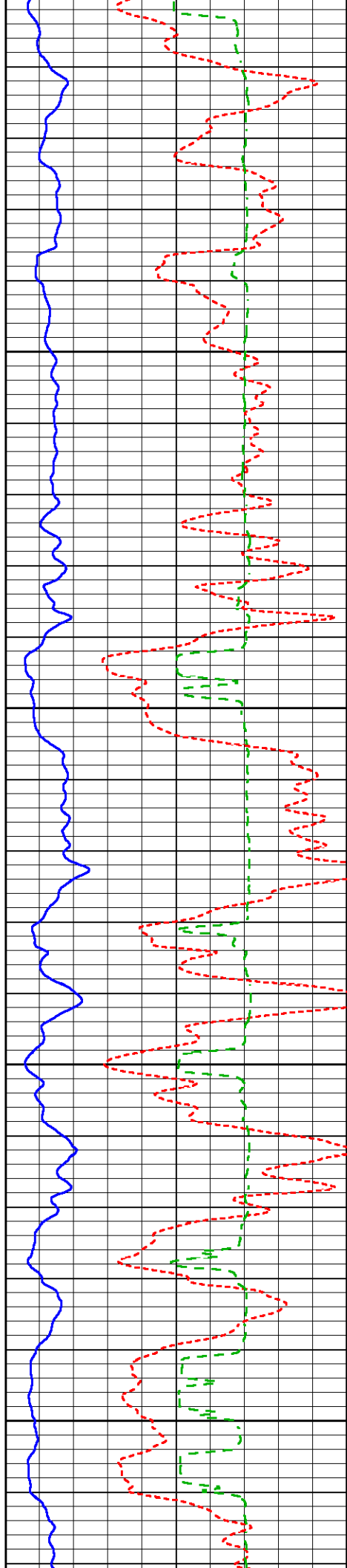
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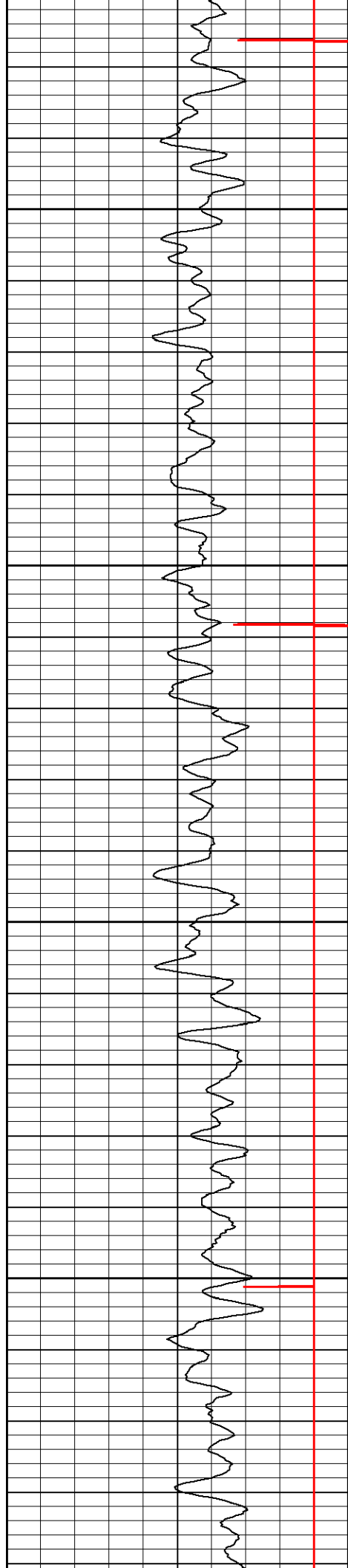




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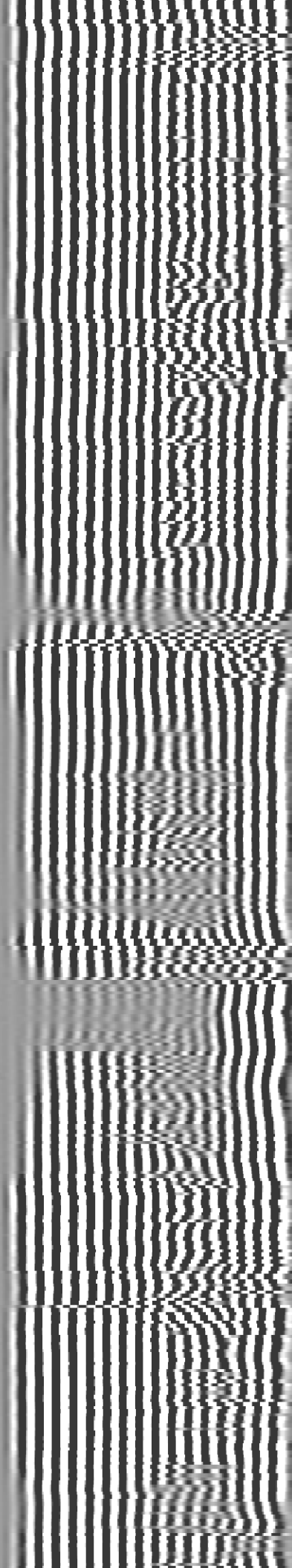
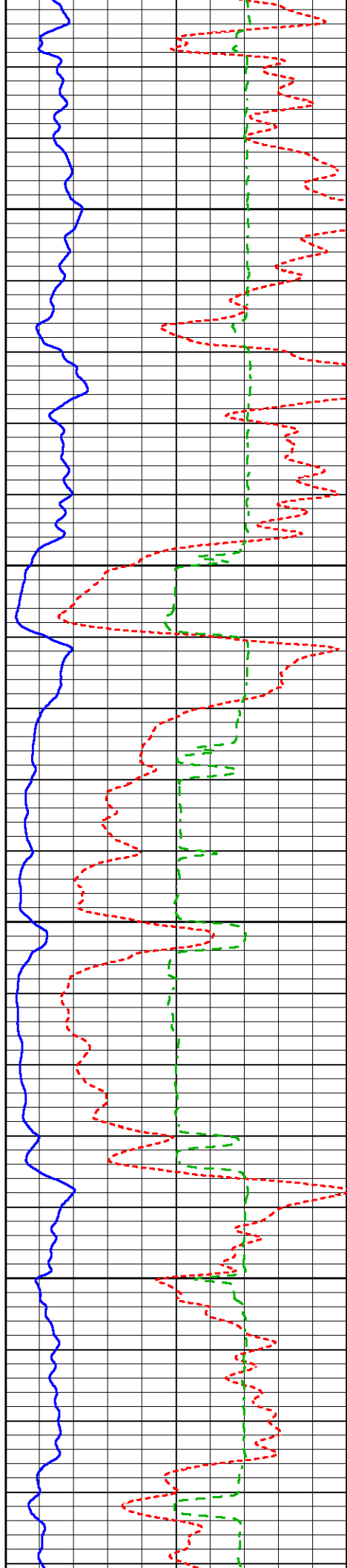
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3500

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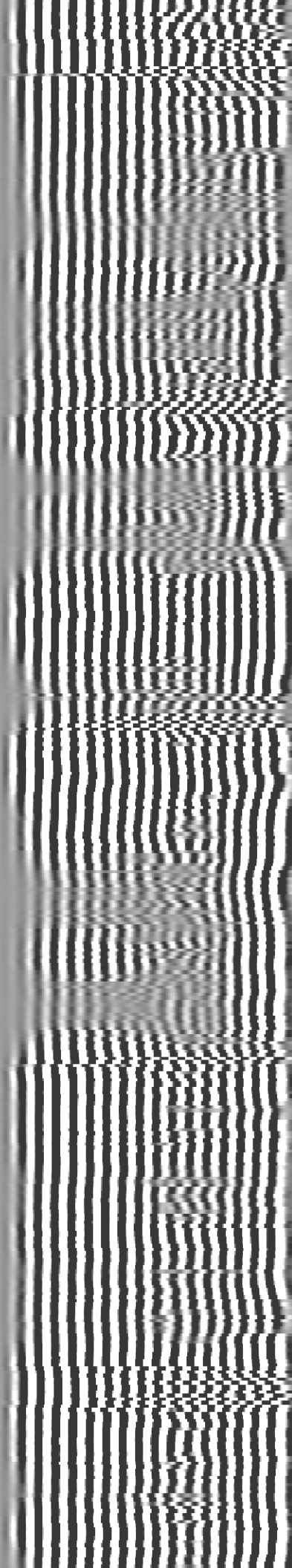
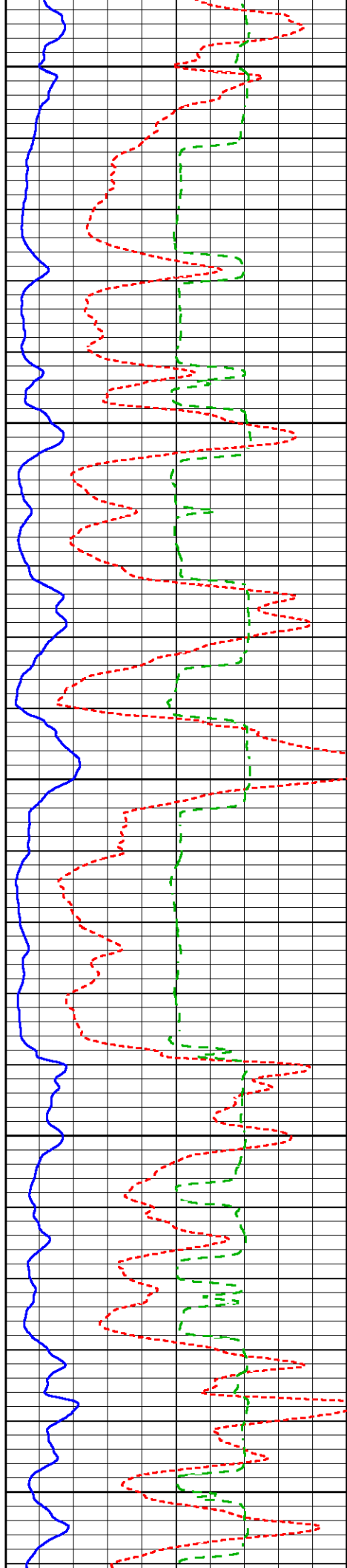


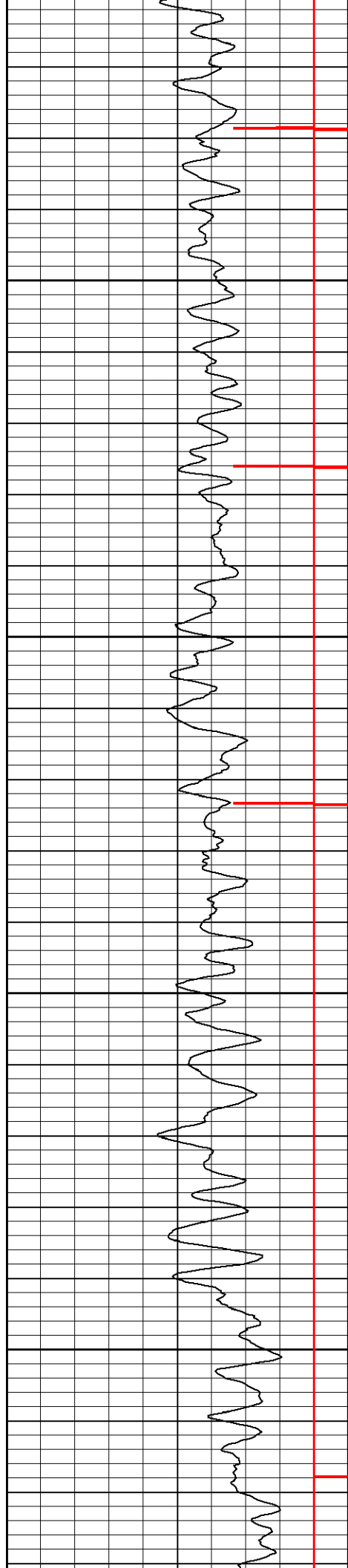


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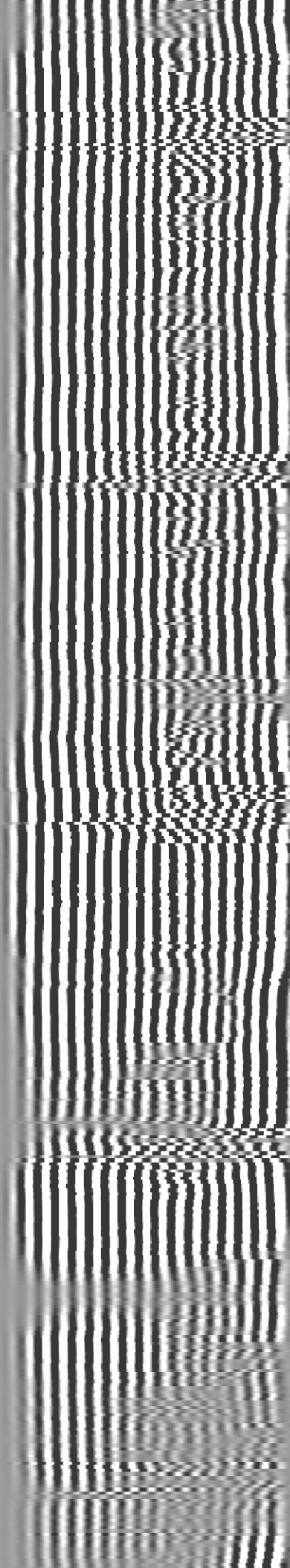
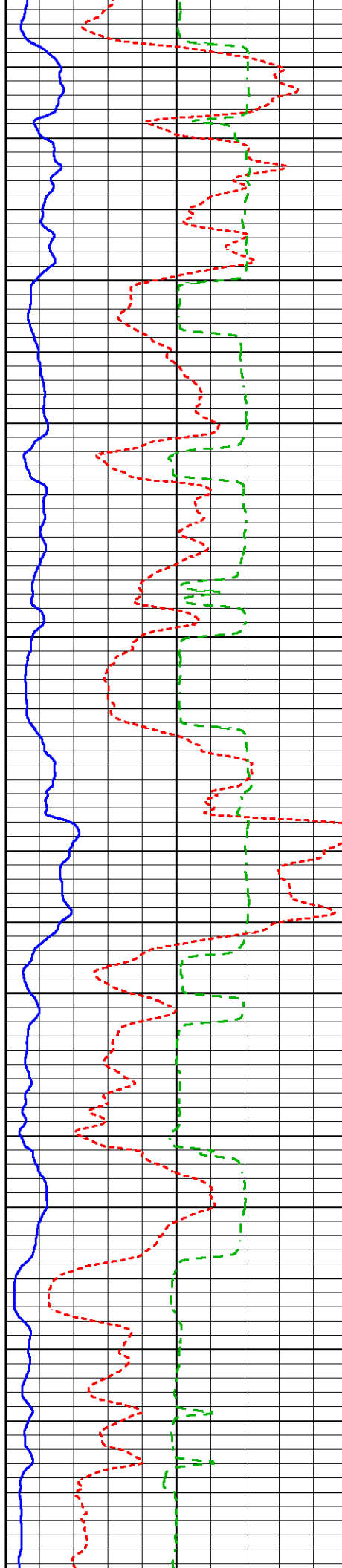
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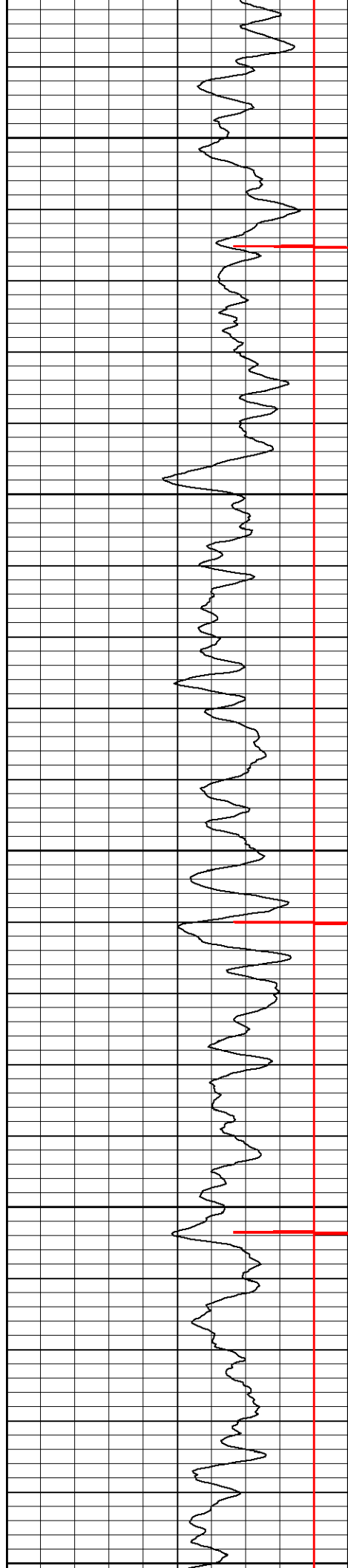


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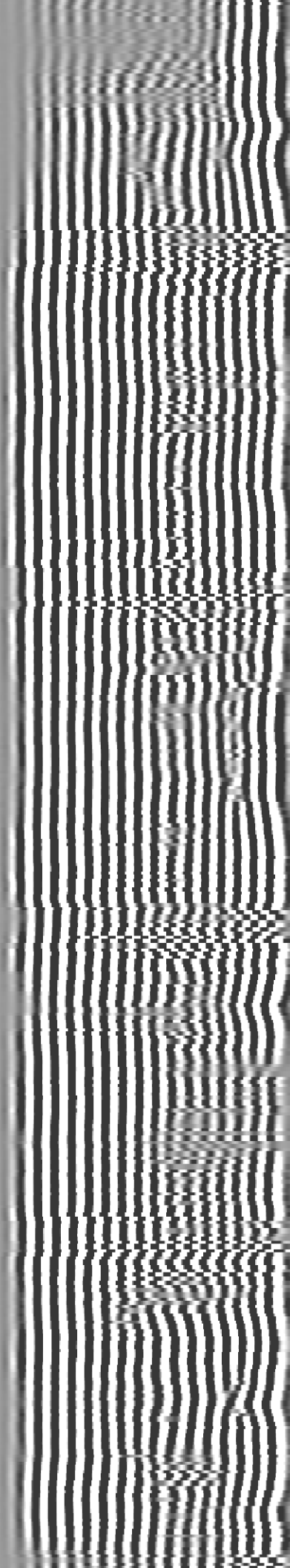
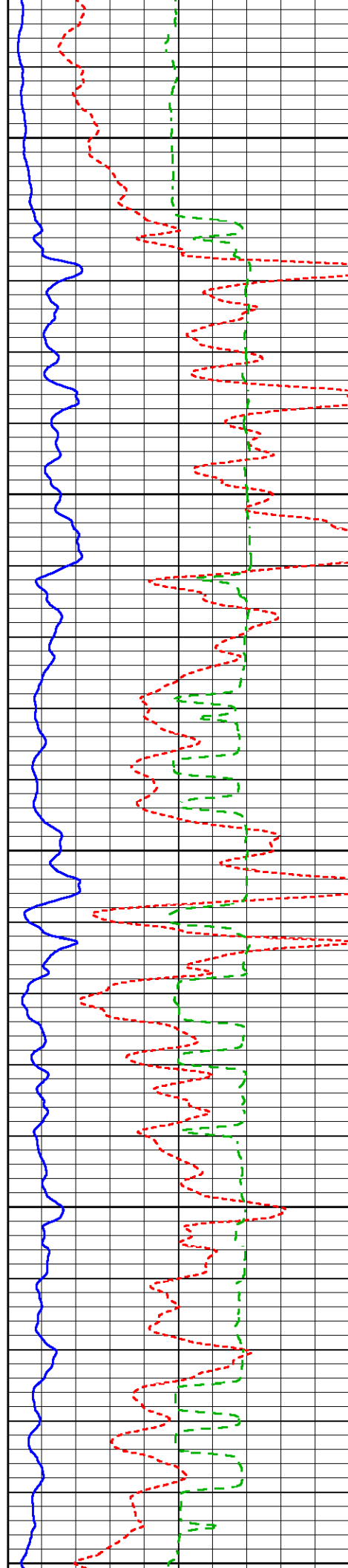


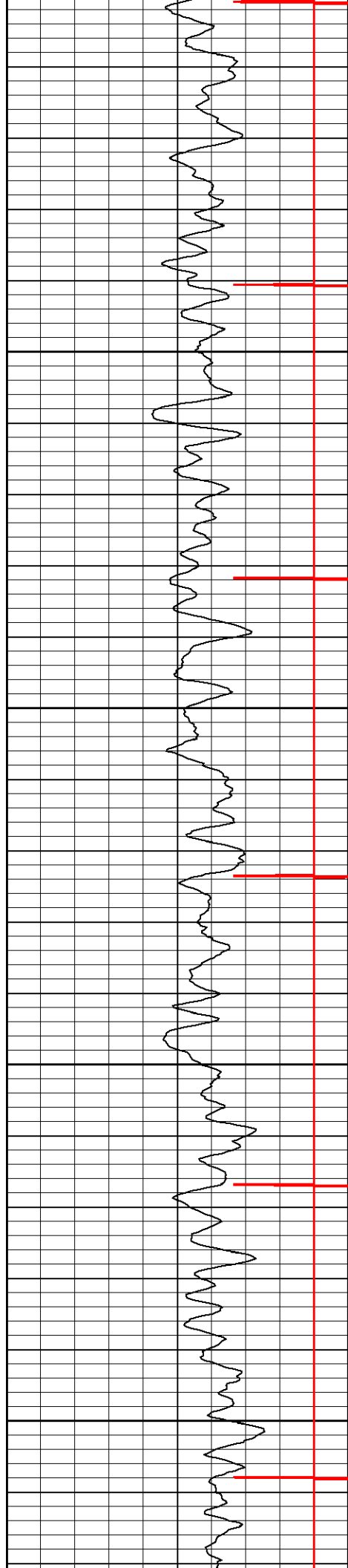




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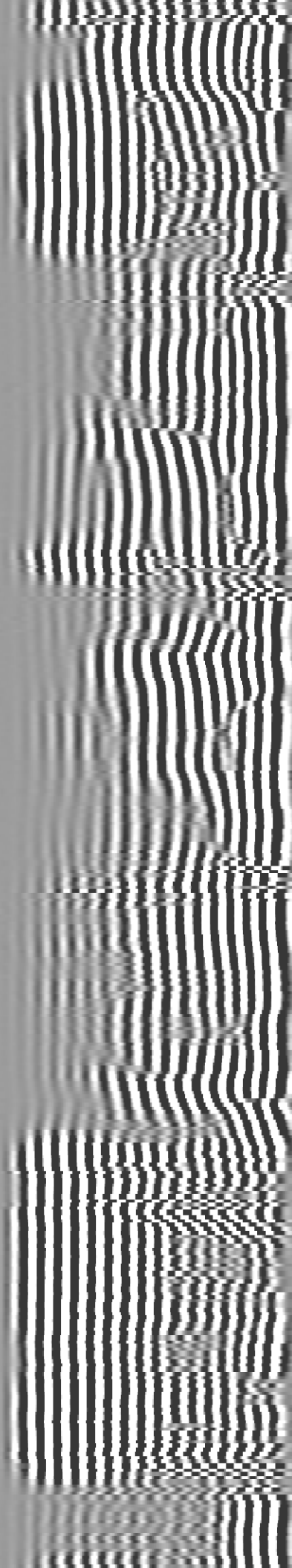
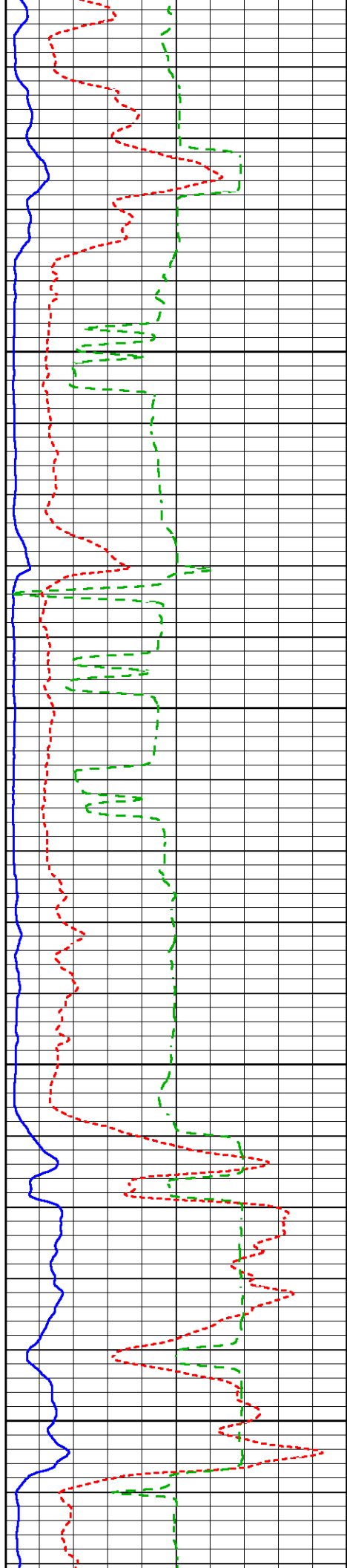
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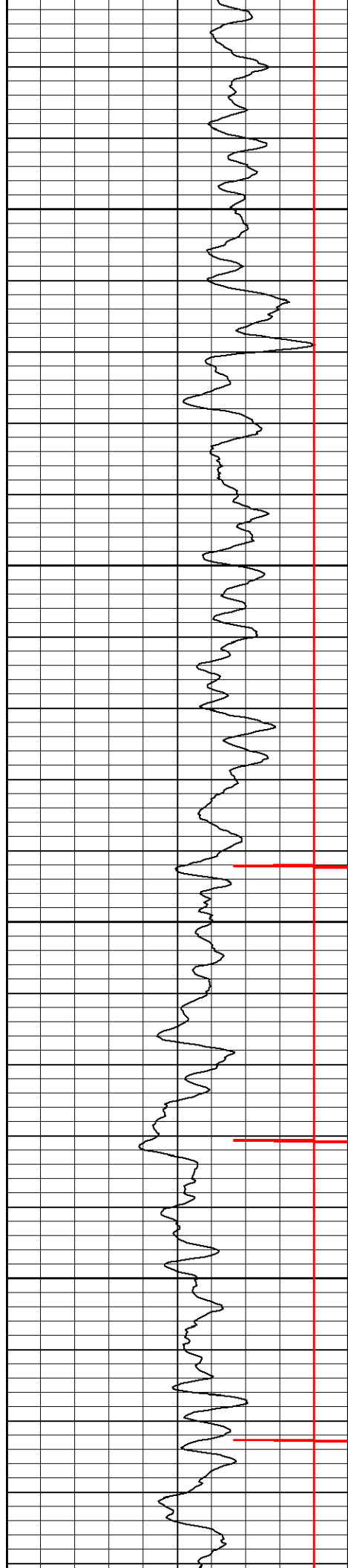




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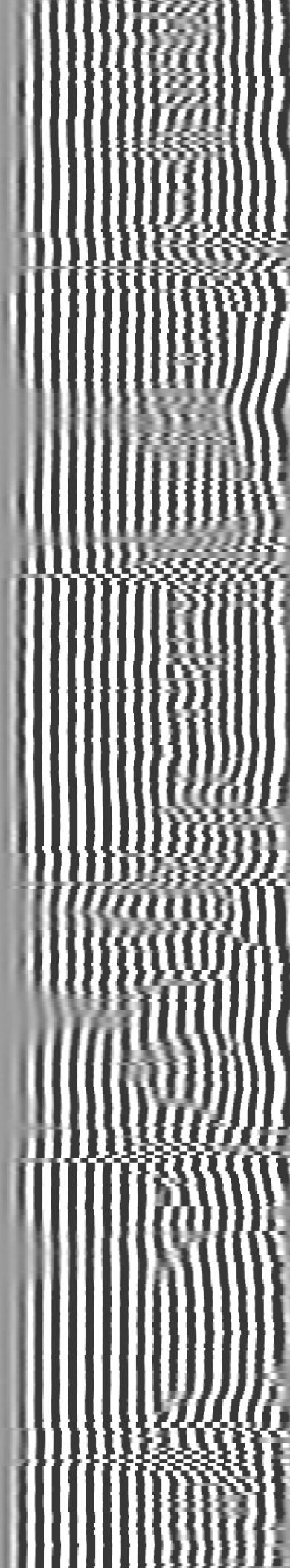
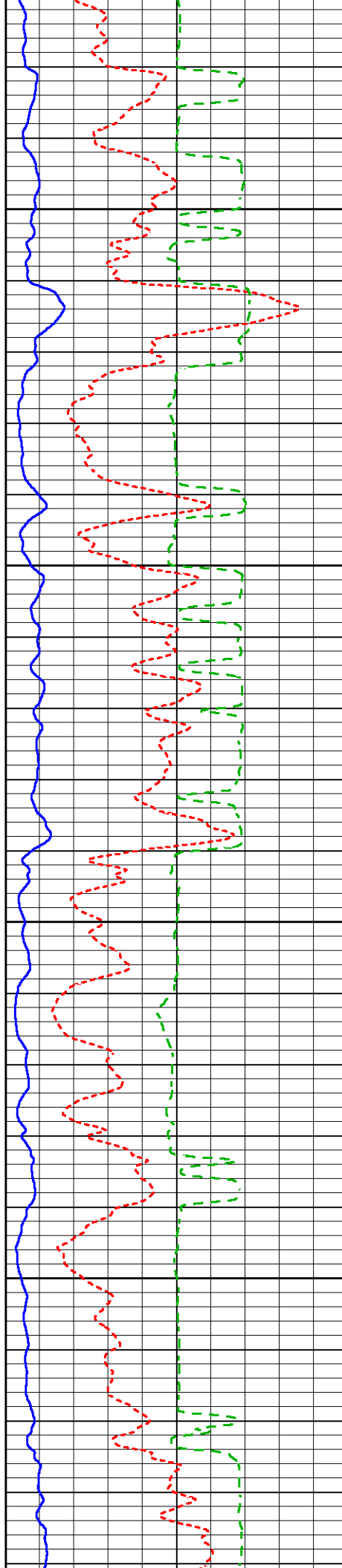
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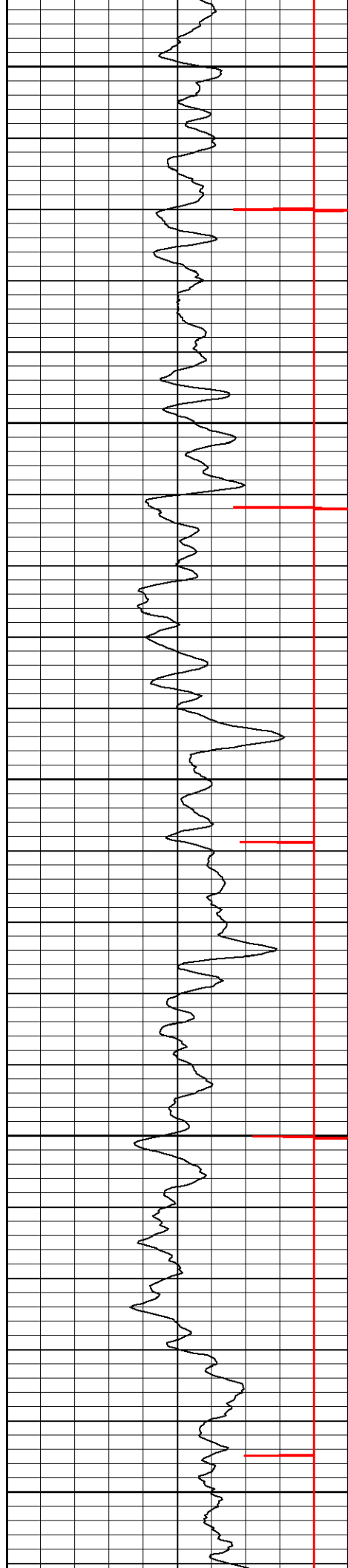




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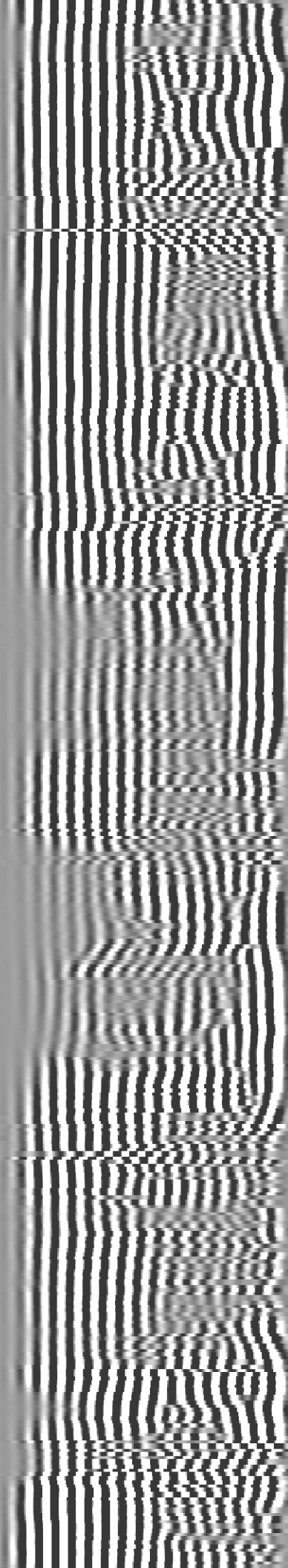


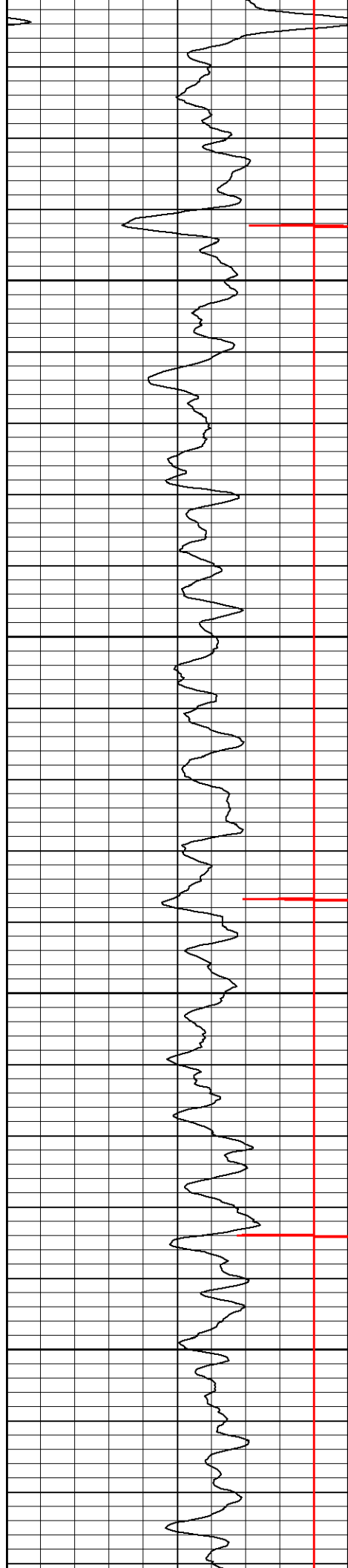


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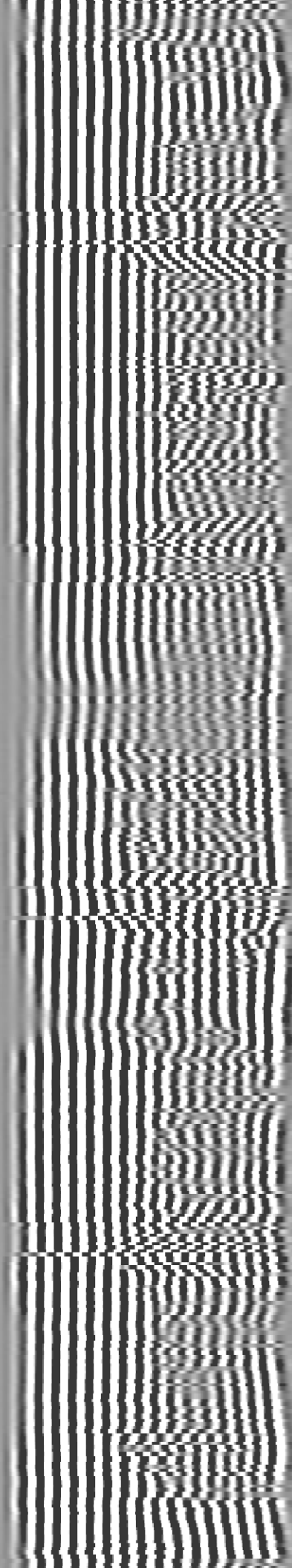
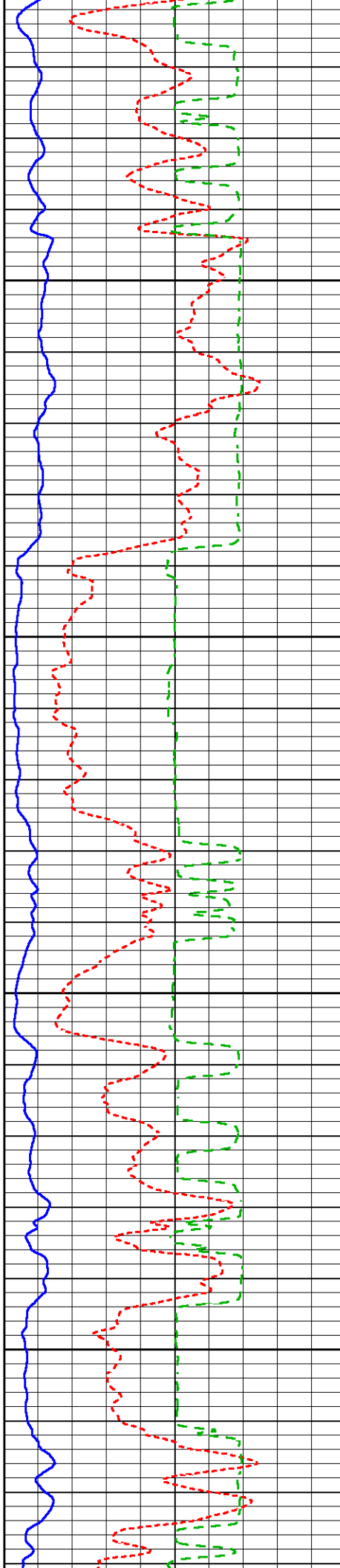
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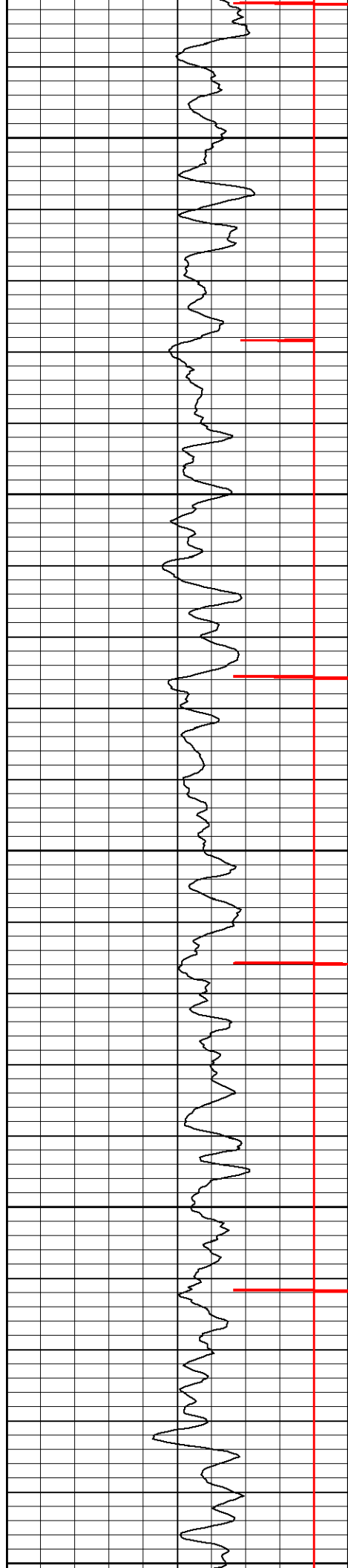




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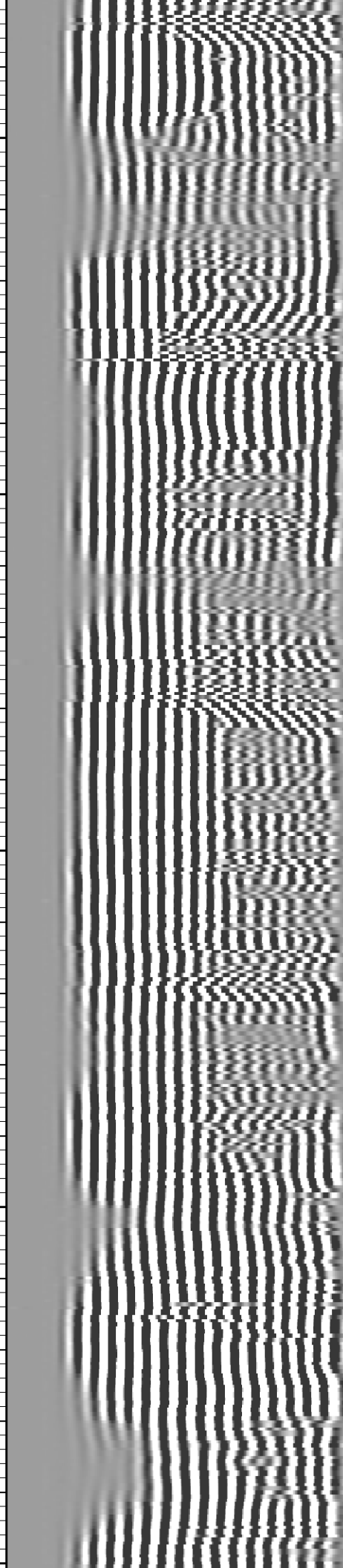
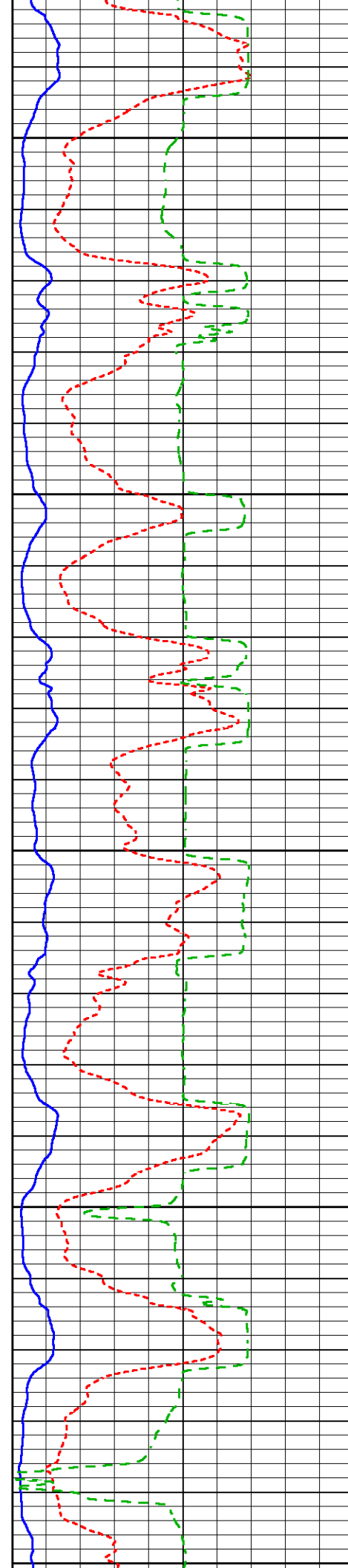
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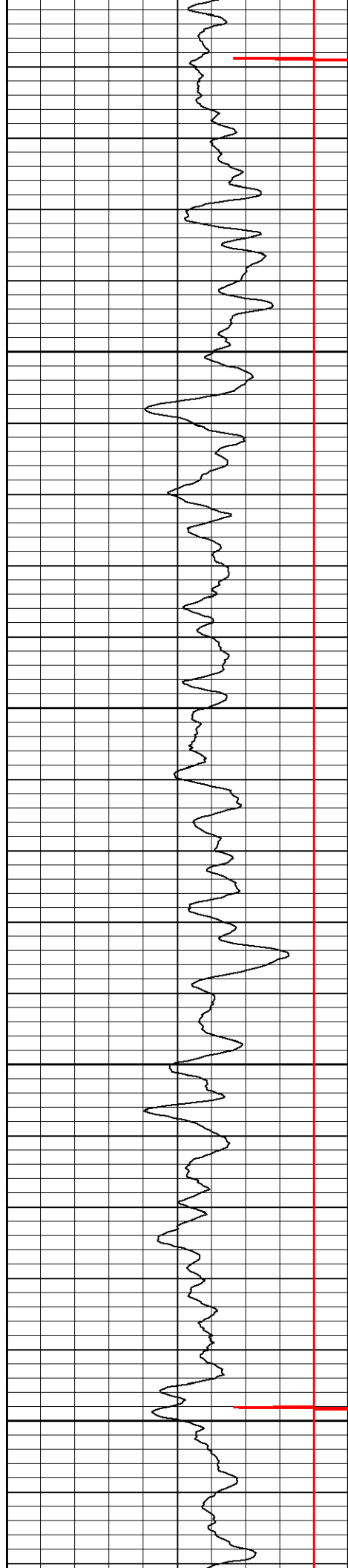


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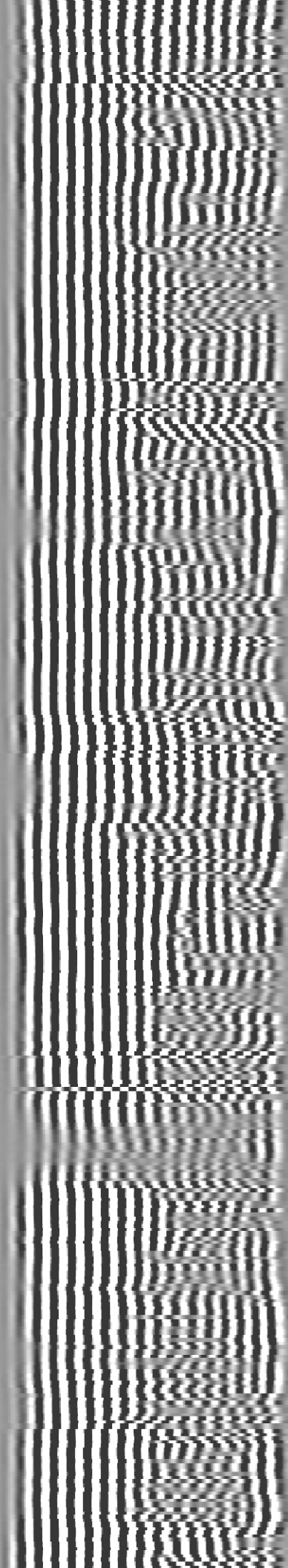
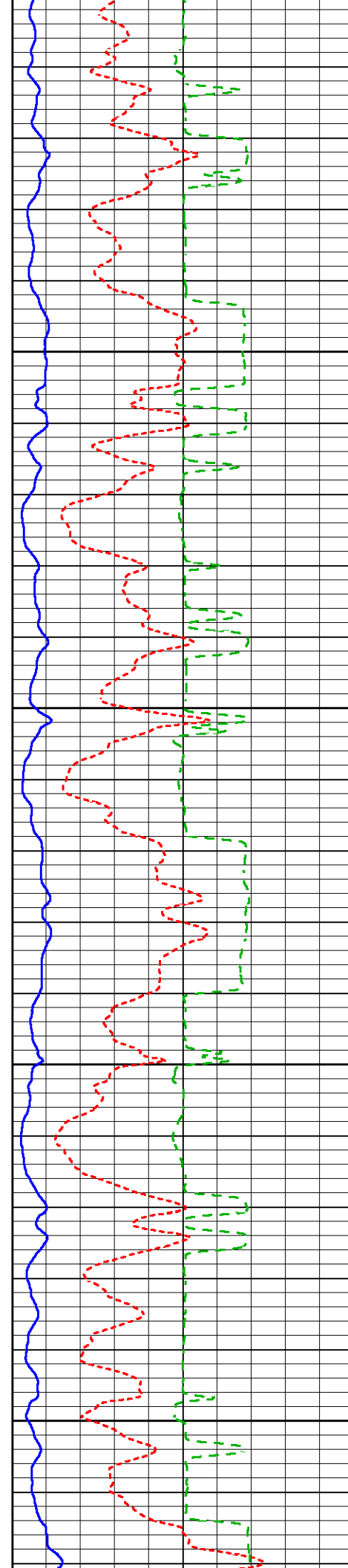


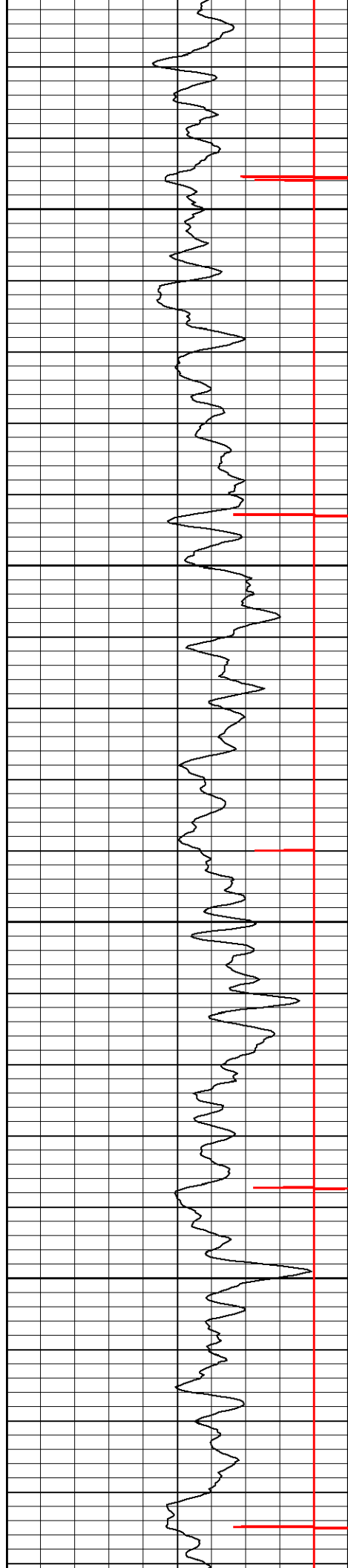




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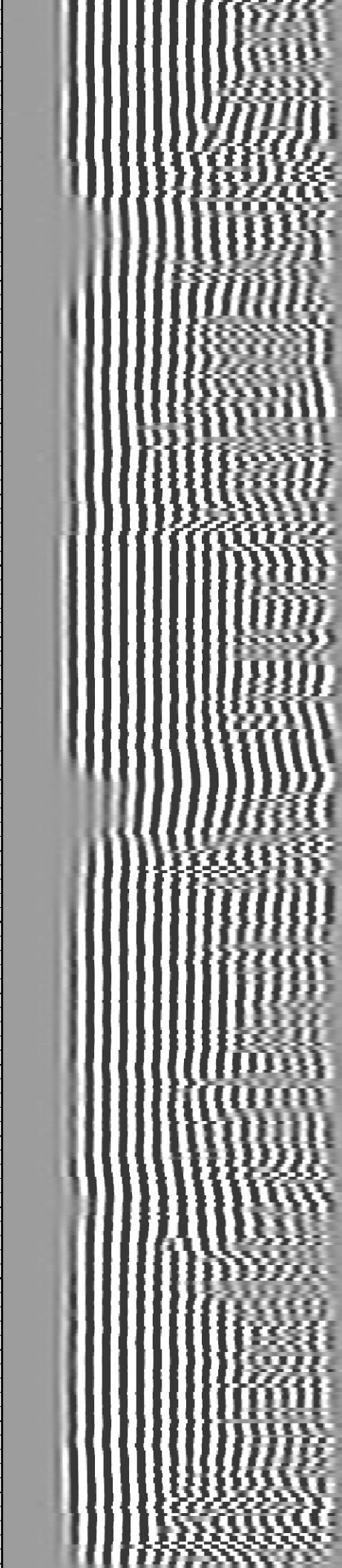
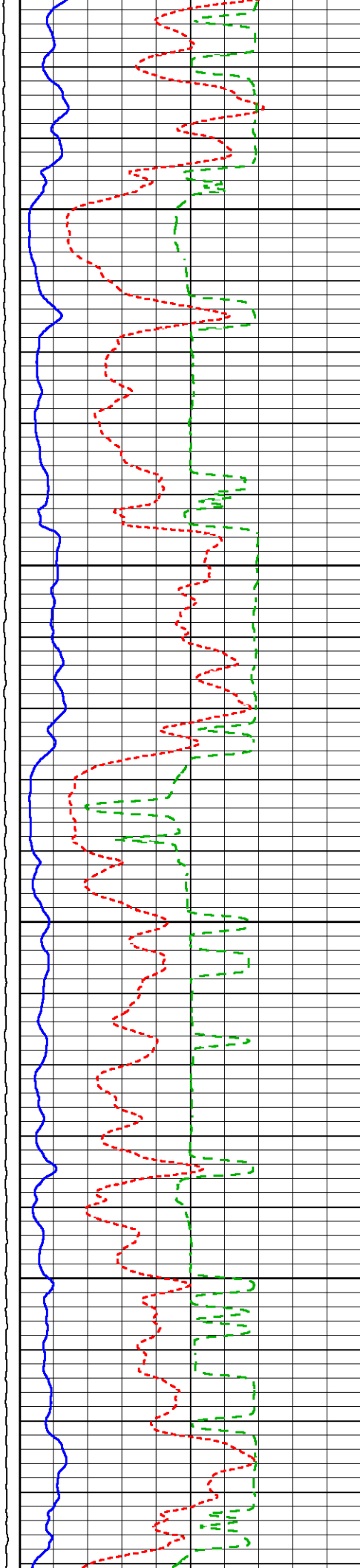
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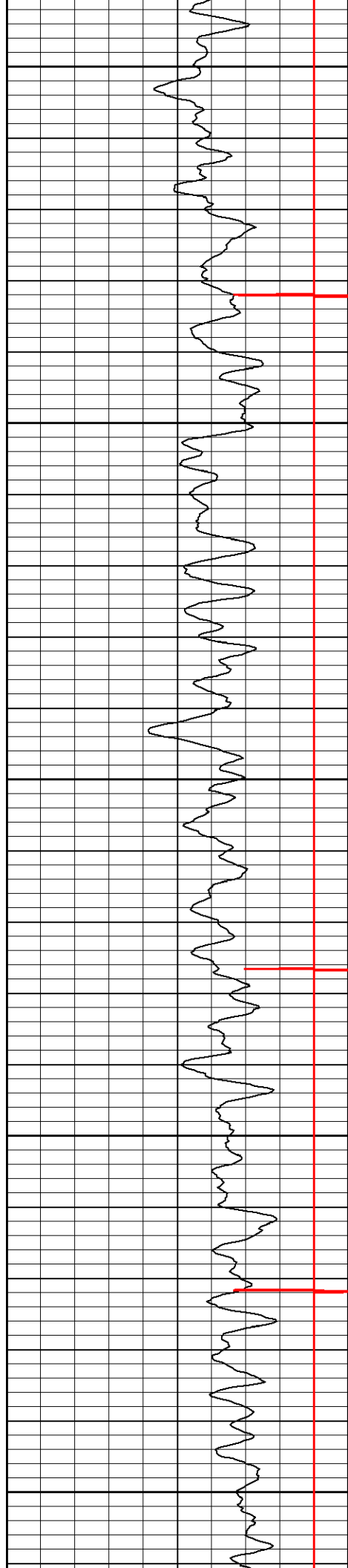




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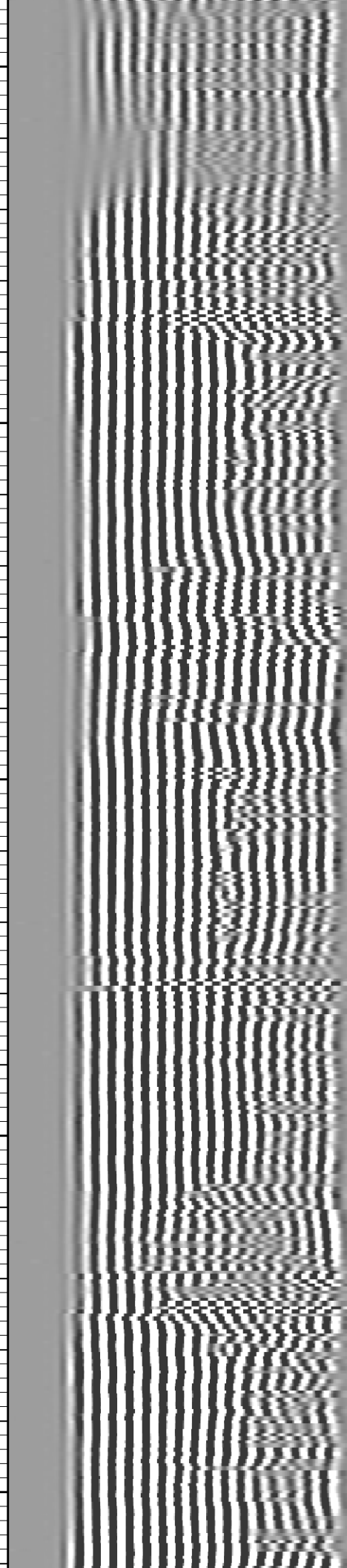
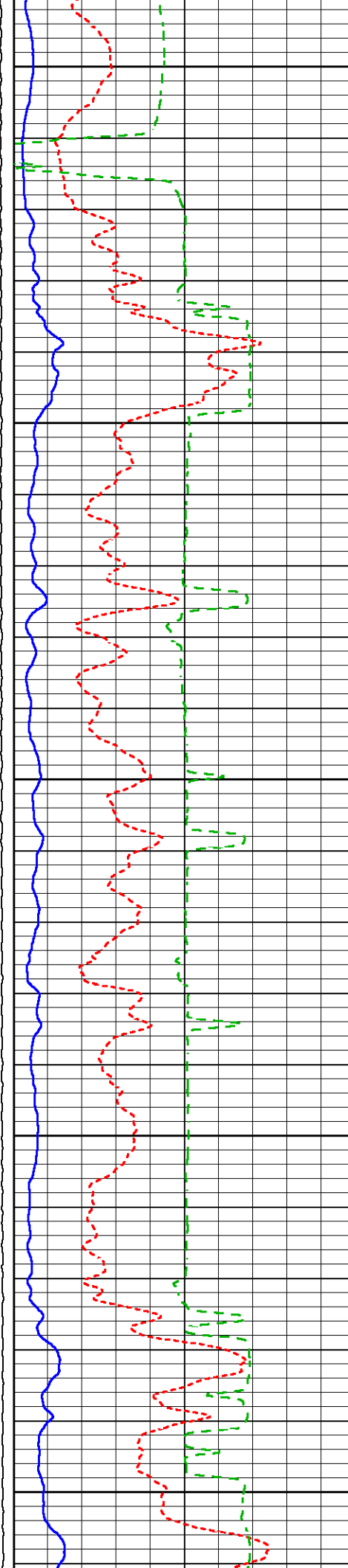


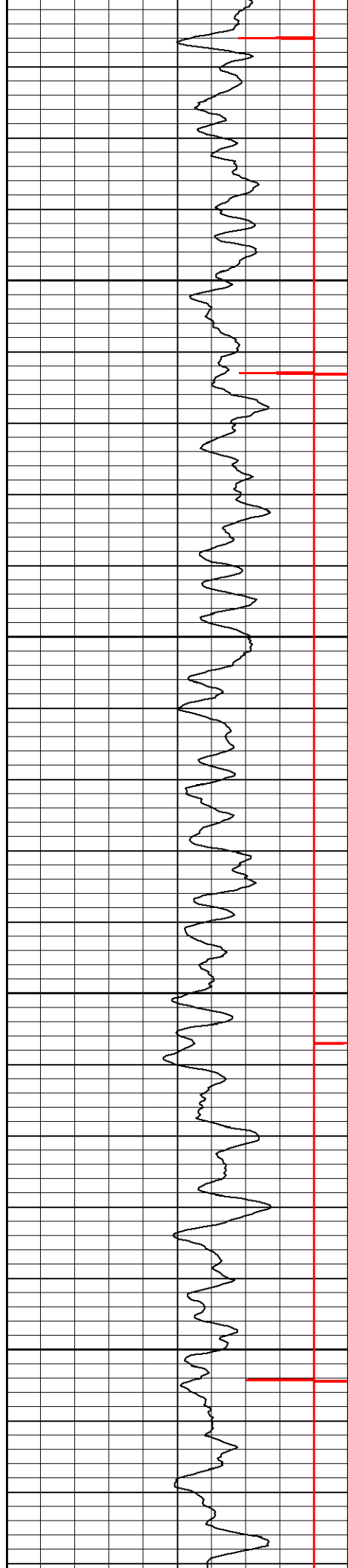


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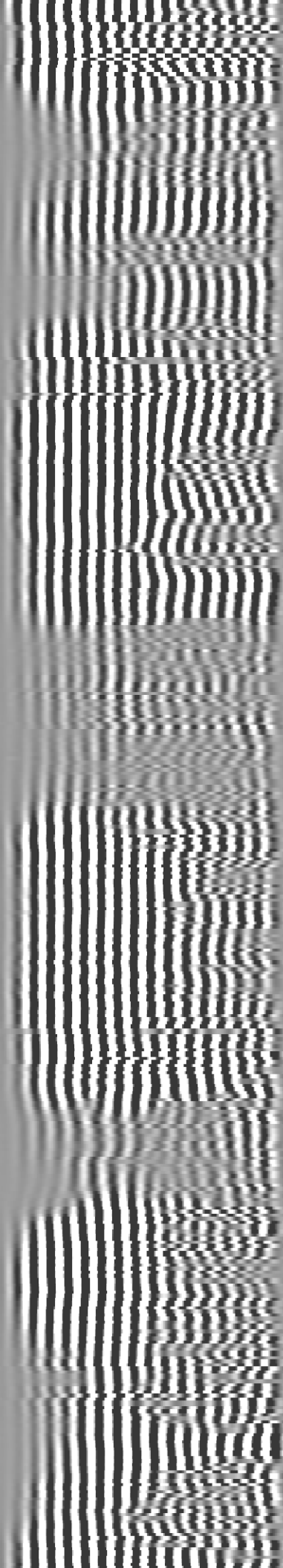
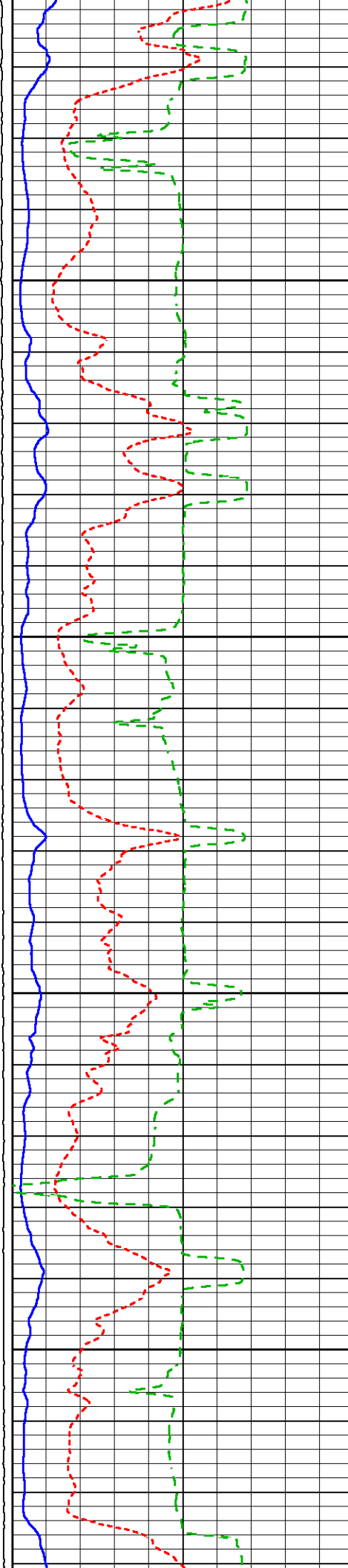
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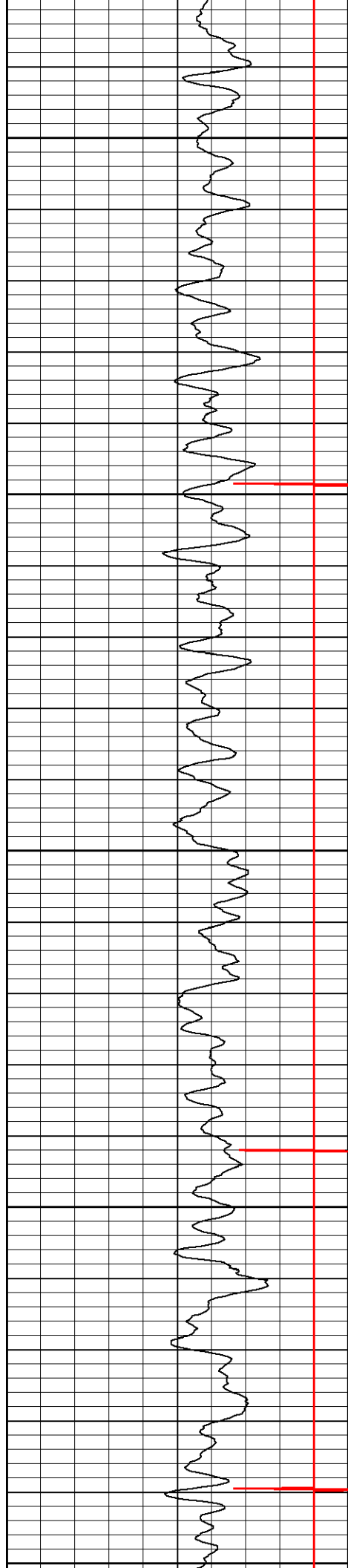




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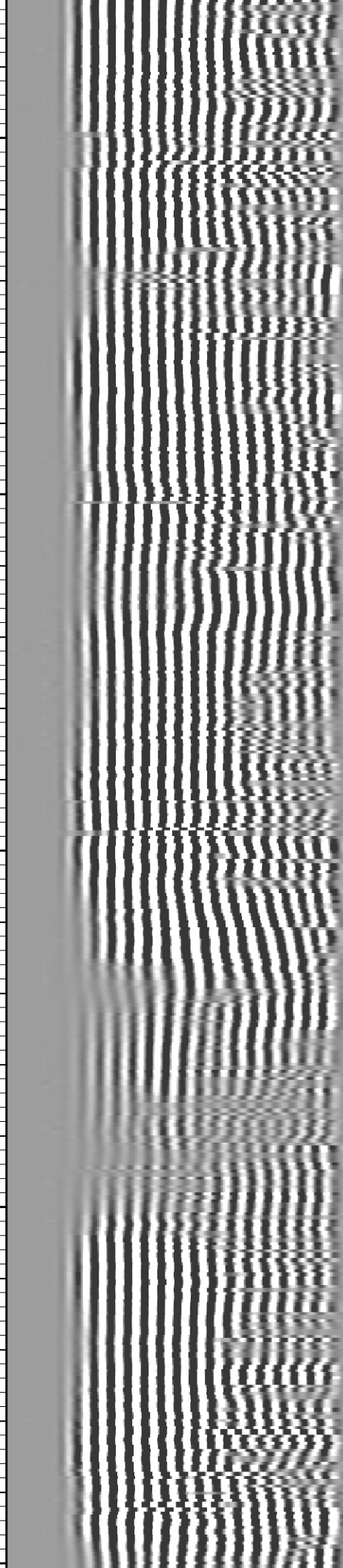
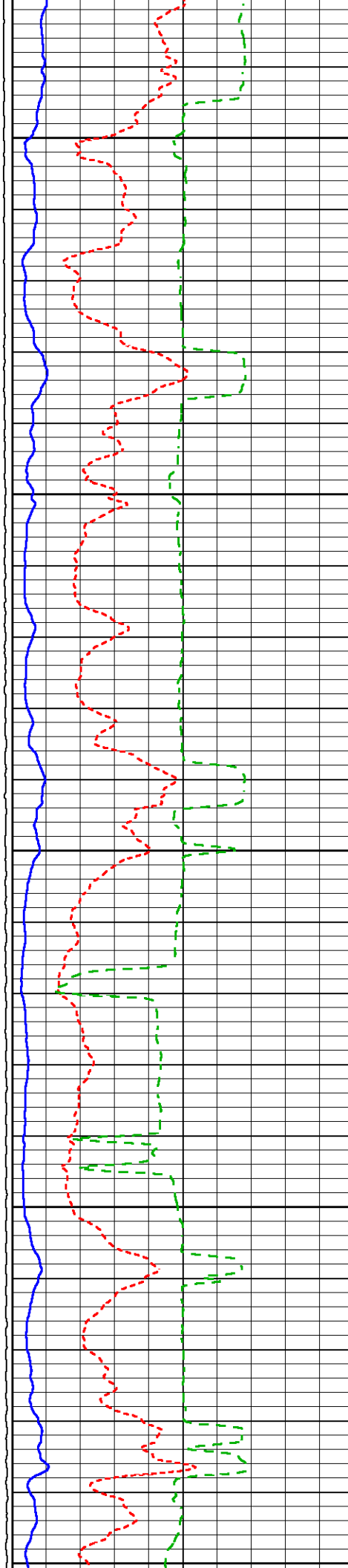
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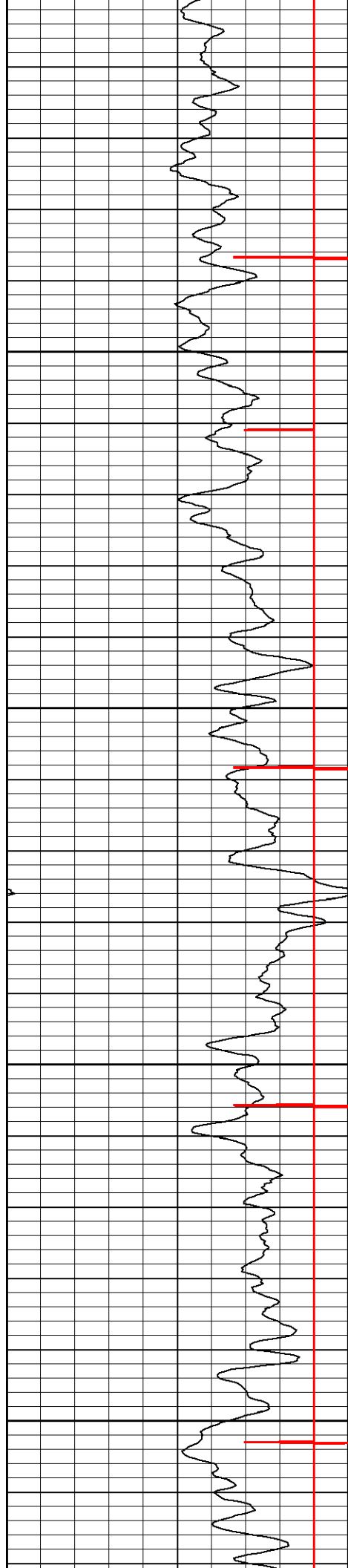




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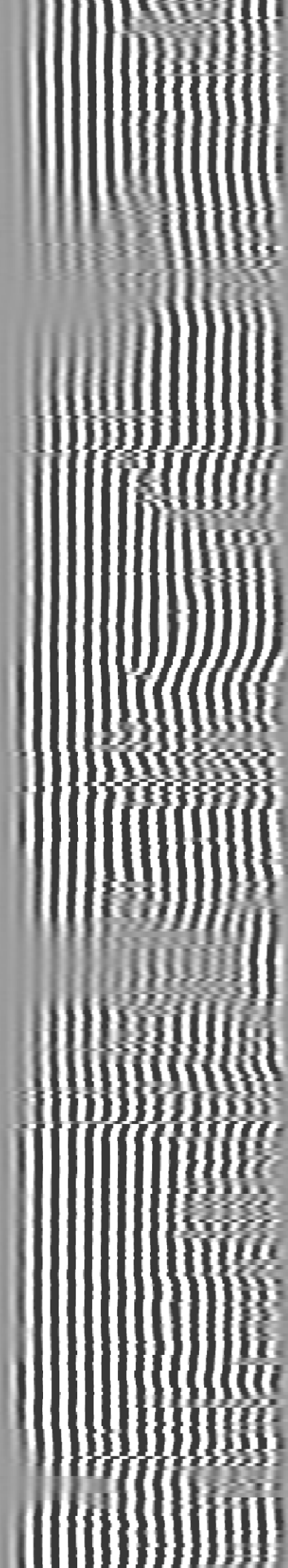
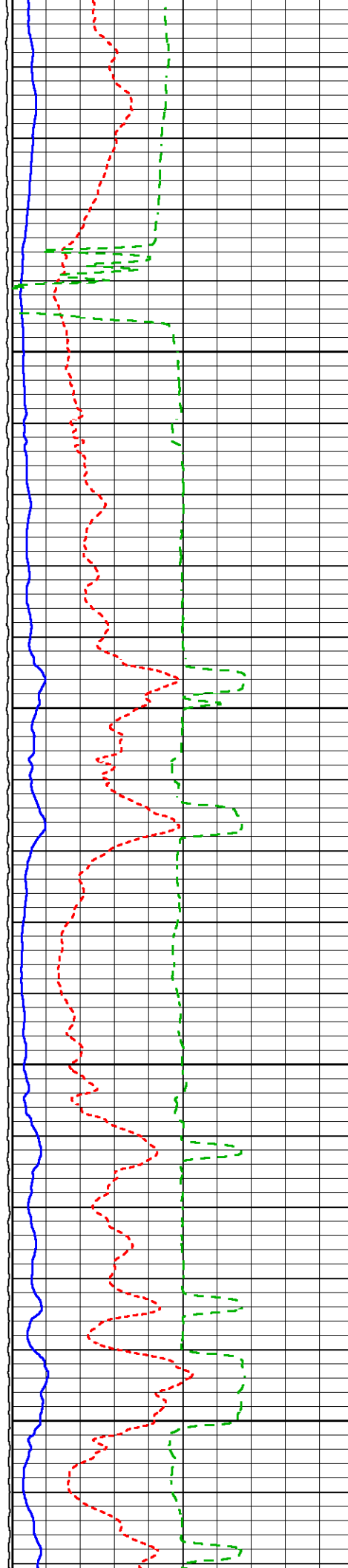
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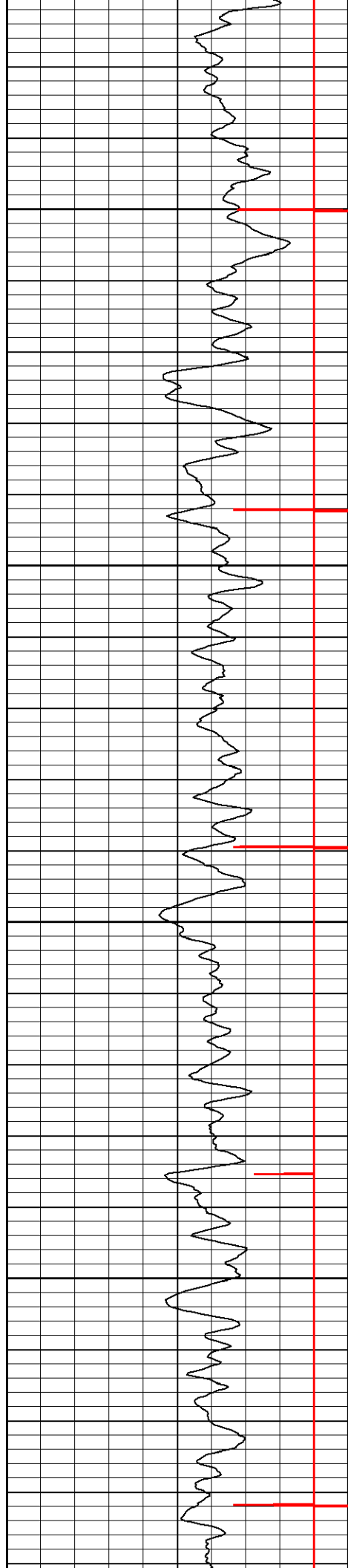


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6700

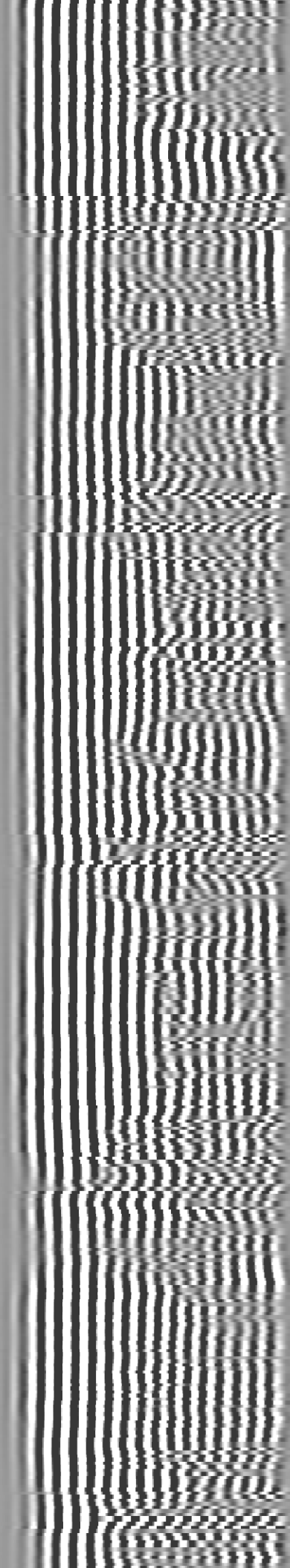
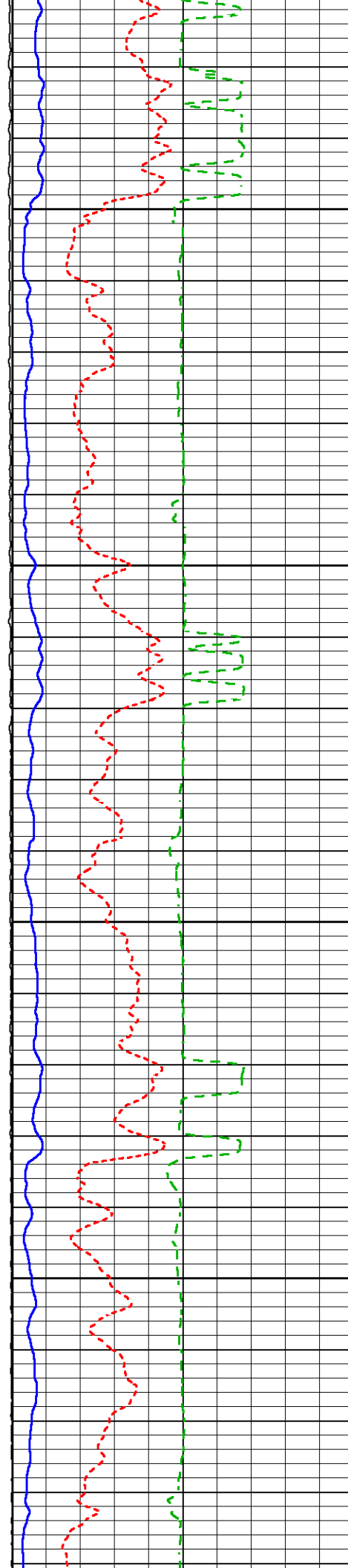


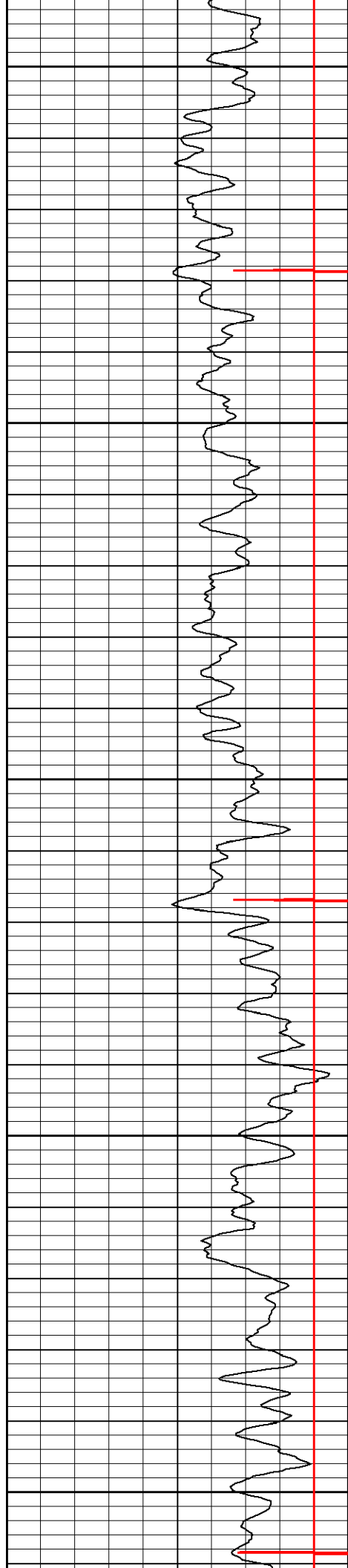




6800

6900

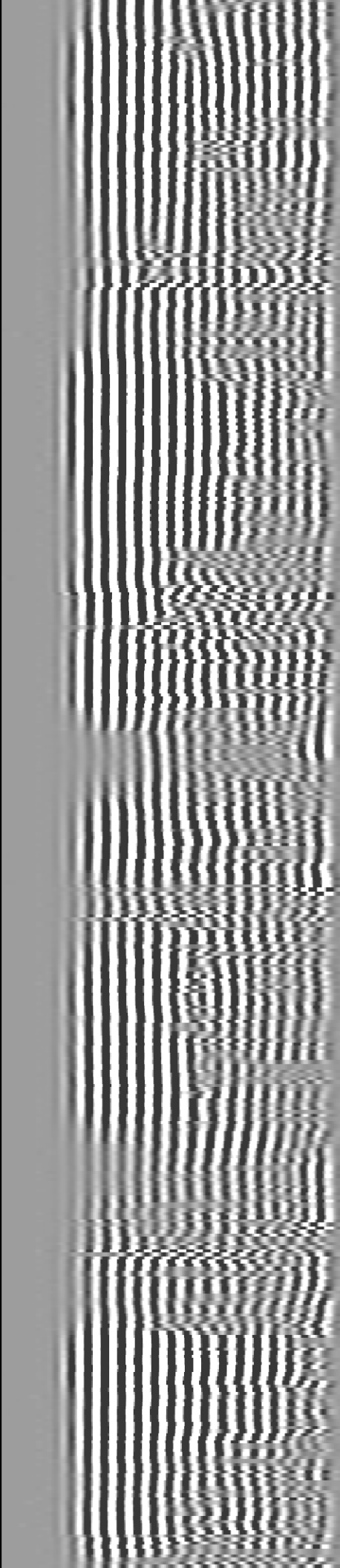
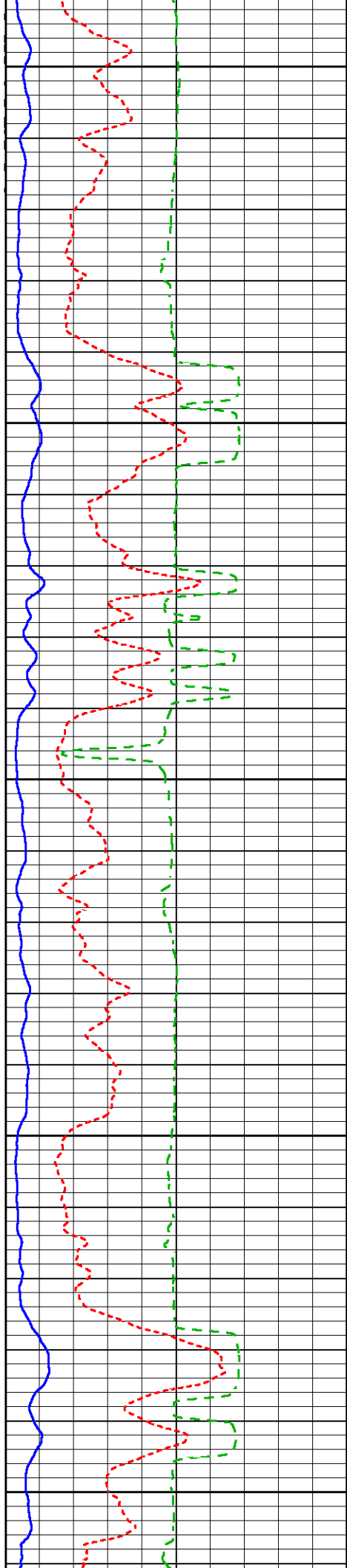


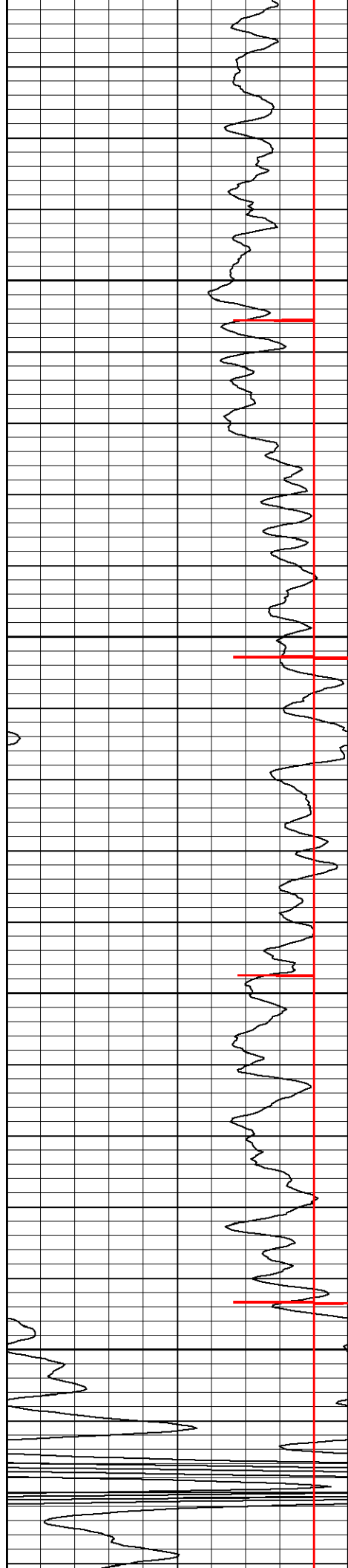


7000

7100

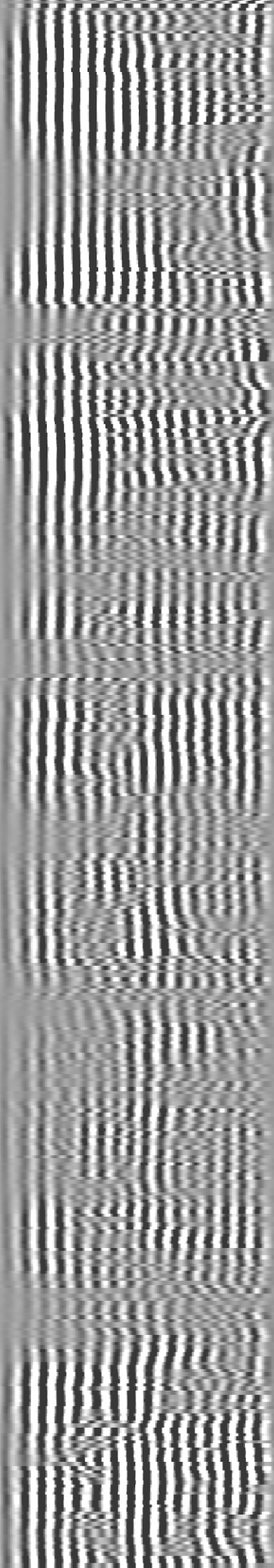
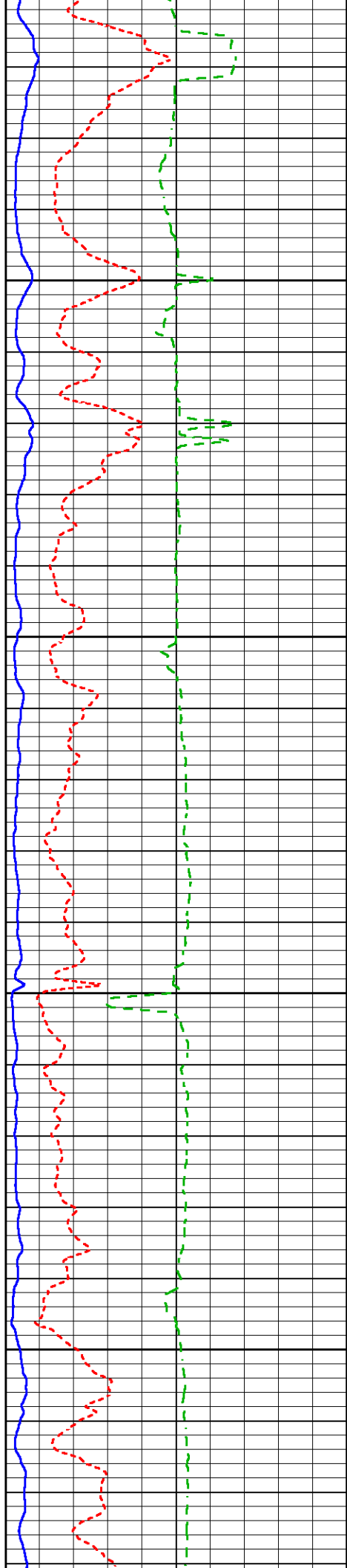
7200

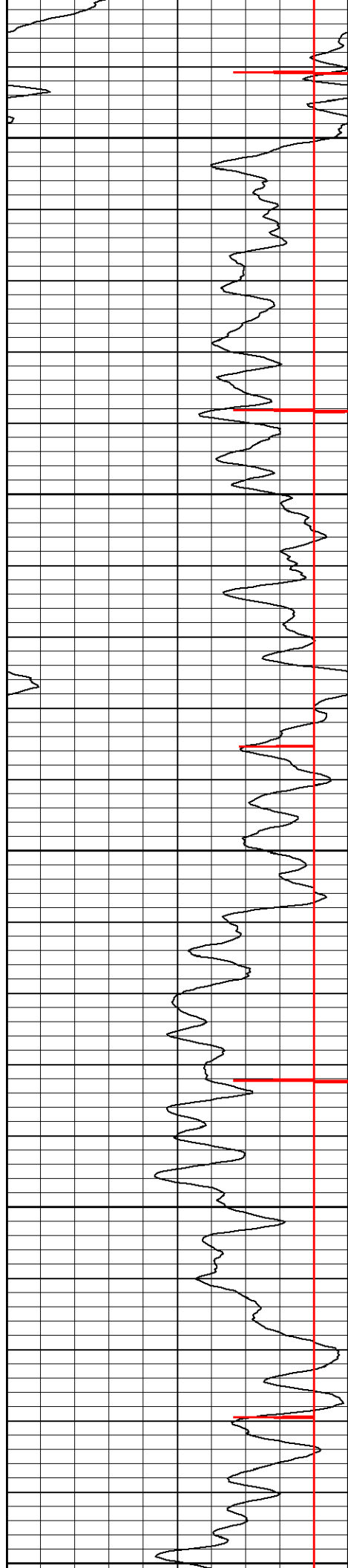




7300

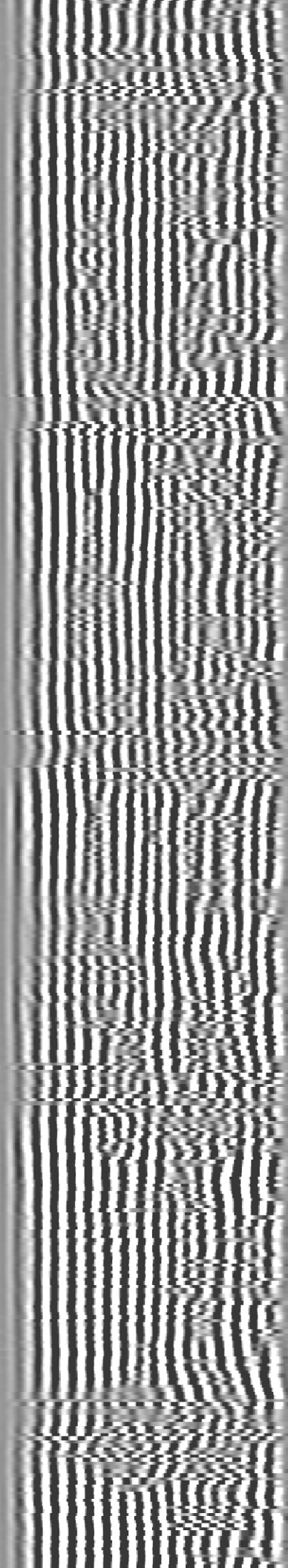
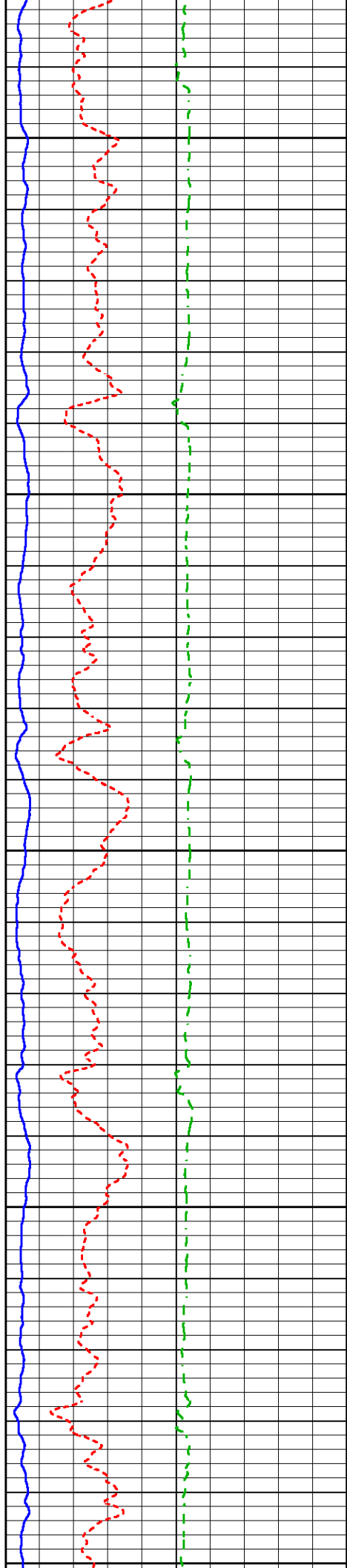
7400

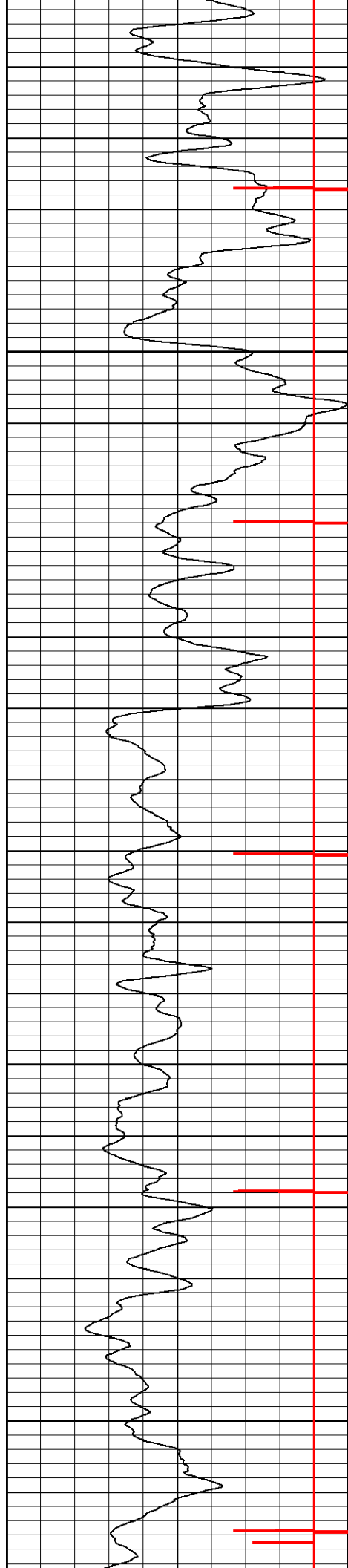




7500

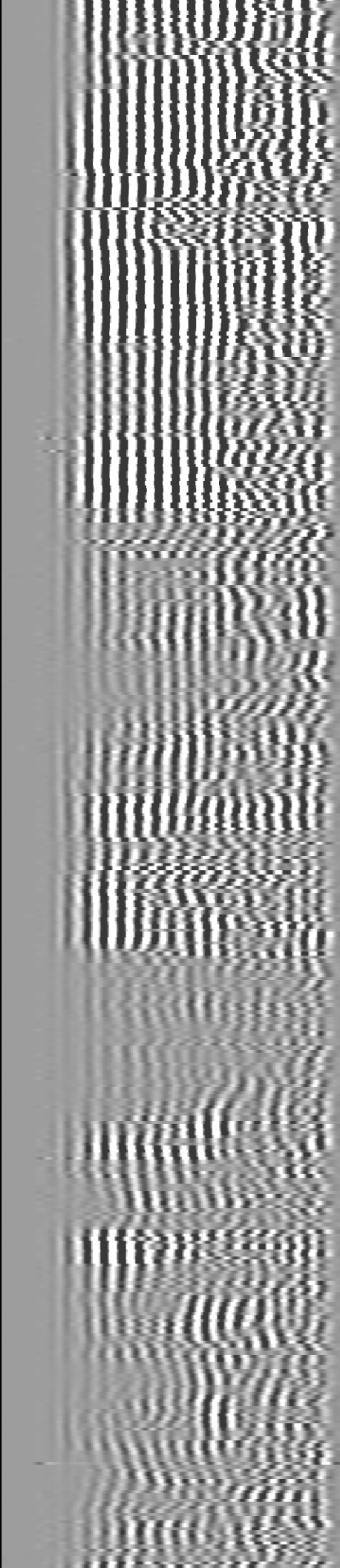
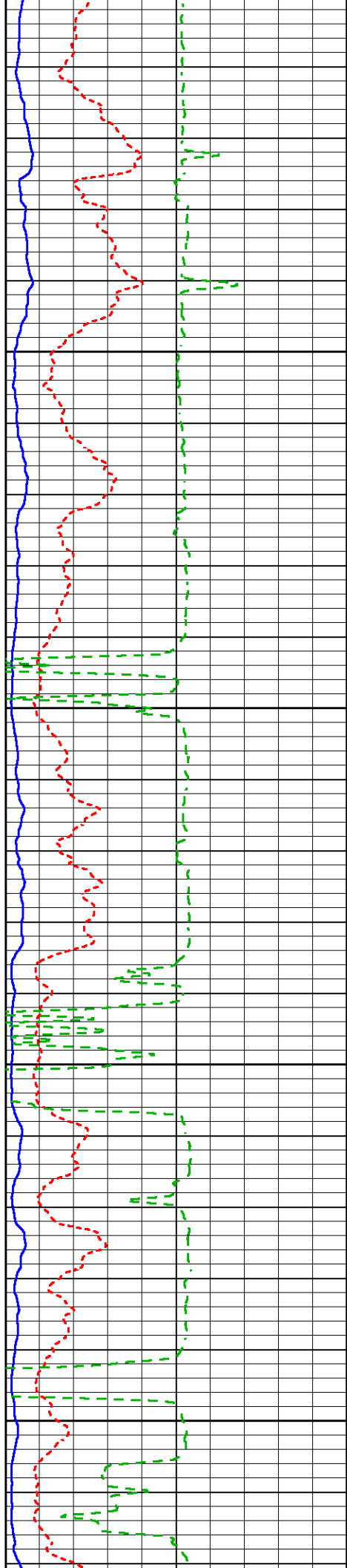
7600



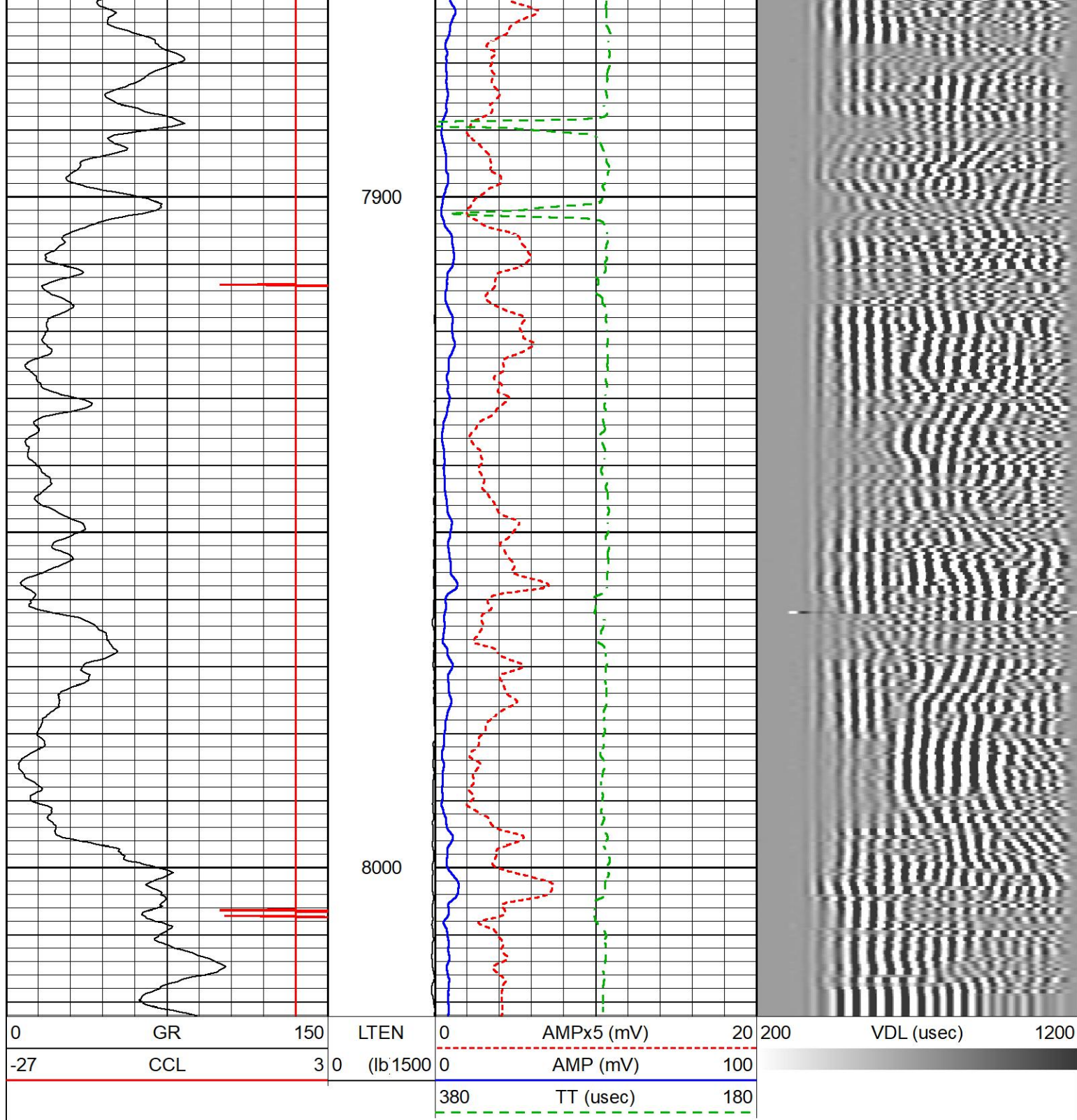


7700

7800

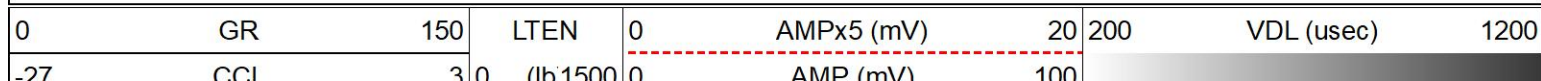




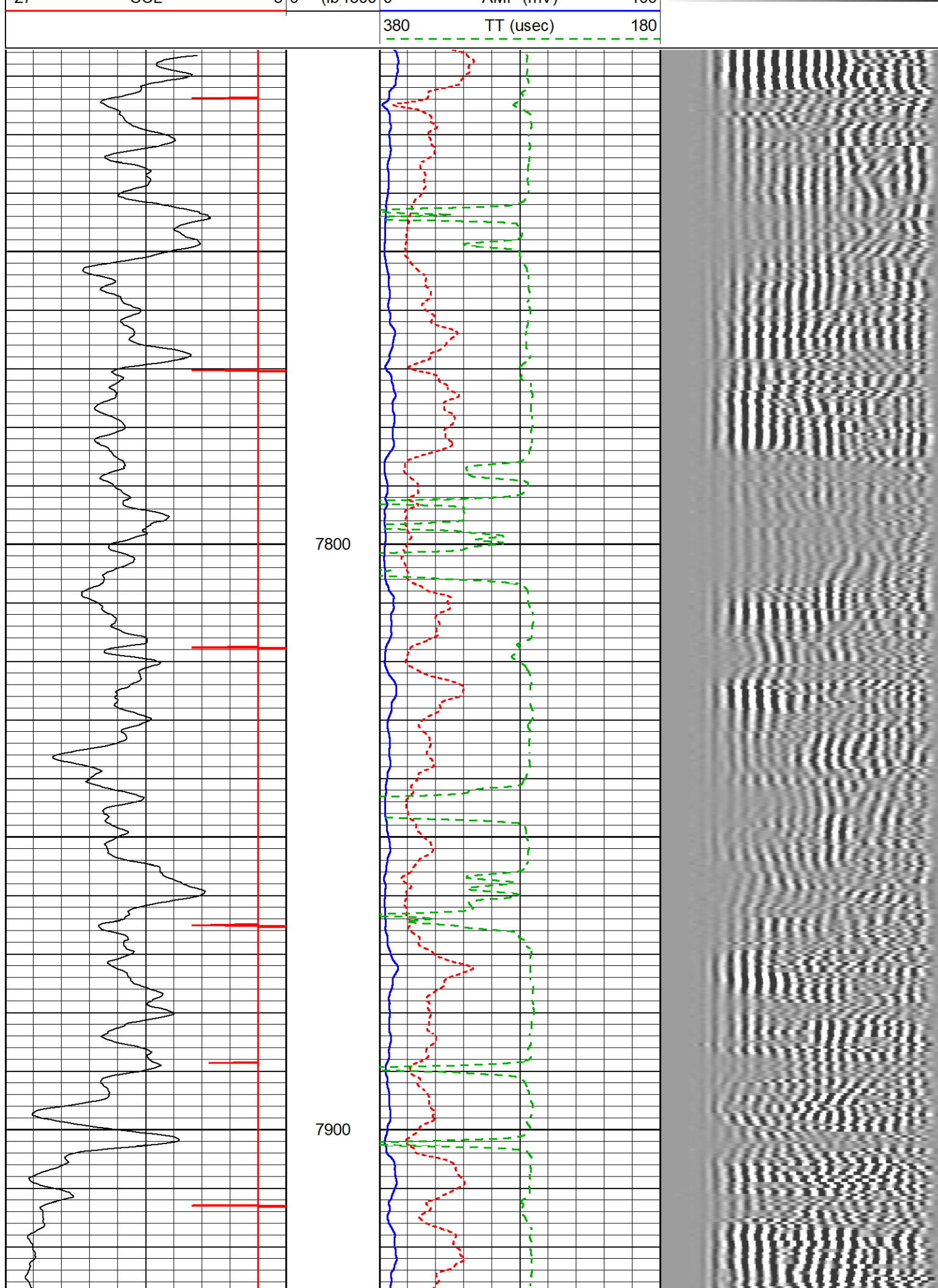


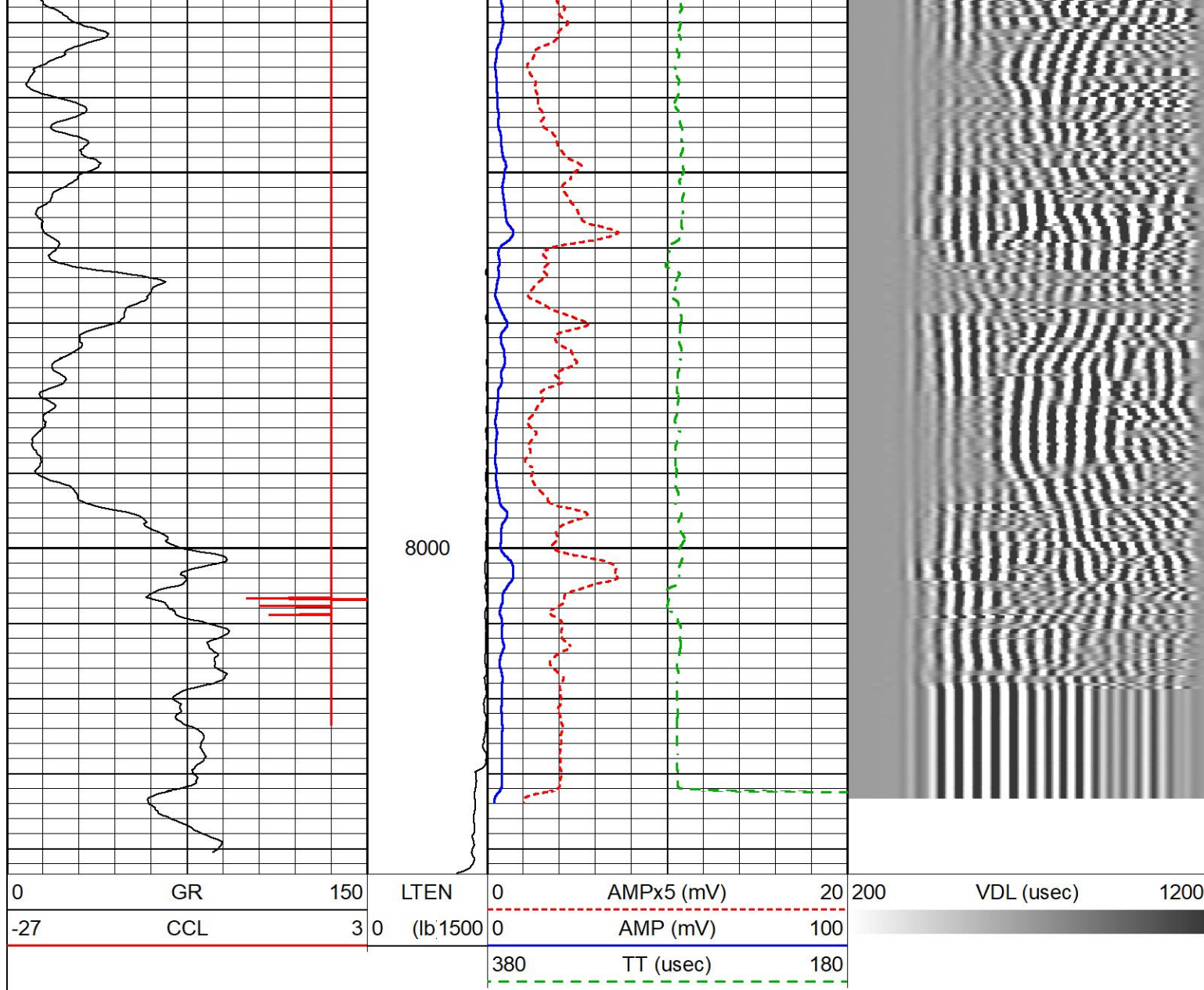
## Repeat Pass

Database File wuertz\_1201-18h.db  
 Dataset Pathname Wattenberg/Wuertz\_1201-18H/Log1/pass2.1  
 Presentation Format rmws\_dsc  
 Dataset Creation Sat Jul 24 12:50:43 2021  
 Charted by Depth in Feet scaled 1:240









## Log Variables

DatabaseC:\ProgramData\Warrior\Data\wuertz\_1201-18h.db  
Dataset Wattenberg/Wuertz\_1201-18H/Log1/pass5.1/\_vars\_

### Top - Bottom

BOREID in 7.875	BOTTEMP degF 230	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 17	MAXAMPL mV 71.9	MINAMPL mV 1	MINATTN db/ft 0.8
PERFS No	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 8017				

### Variable Description

BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness

CASEWGHT : Casing Weight  
MAXAMPL : Maximum Amplitude  
MINAMPL : Minimum Amplitude  
MINATTN : Minimum Attenuation

PERFS : Perforation Flag  
PPT : Predicted Pipe Time  
SRFTEMP : Surface Temperature  
TDEPTH : Total Depth

### Calibration Report

Database File wuertz\_1201-18h.db  
Dataset Pathname Wattenberg/Wuertz\_1201-18H/Log1/pass5.1

## Segmented Cement Bond Log Calibration Report

Serial Number: TEKCO234\_3025  
Tool Model: TEKCO

Calibration Casing Diameter: 4.500 in  
Calibration Depth: 89.842 ft

Master Calibration, performed (Derived):

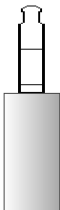
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.019	1.283	1.000	71.900	54.478	2.014
CAL	0.015	0.868				
5'	-0.042	1.933	1.000	71.900	35.898	2.518
SUM						
S1	-0.016	2.354	0.000	100.000	42.195	0.658
S2	-0.011	2.322	0.000	100.000	42.860	0.487
S3	-0.020	2.173	0.000	100.000	45.608	0.903
S4	-0.014	1.890	0.000	100.000	52.535	0.710
S5	-0.013	1.949	0.000	100.000	50.974	0.664
S6	-0.011	2.061	0.000	100.000	48.242	0.552
S7	-0.012	2.246	0.000	100.000	44.302	0.510
S8	-0.013	2.405	0.000	100.000	41.359	0.547

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.015	0.868	1.000	0.000

Air Zero Calibration, performed Fri Apr 16 12:47:40 2010:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CCL	19.74		CHD-STNDRD Standard Cable Head	1.00	2.00	2.00
			CCL-312tekco (3.12TEKCO) 3 1/8 TEK CCL Earth Mag	1.82	3.12	25.00

			CENT-TITAN_234 TITAN 2 3/4" BOWSPRING CENT	2.92	2.75	25.00
WVFS8	11.60					
WVFS7	11.60					
WVFS6	11.60					
WVFS5	11.60					
WVFS4	11.60					
WVFS3	11.60					
WVFS2	11.60					
WVFS1	11.60					
WVF3FT	10.85					
WVF5FT	9.85					
WVFSYNC	6.60					
WVFCAL	6.60					
			SCBLTEKCO-TEKCO (TEKCO234_3025) Tekco 2 3/4" Radial Bond	9.08	2.75	50.00
			CENT-TITAN_234 TITAN 2 3/4" BOWSPRING CENT	2.92	2.75	25.00
			GR-TEKCO234 (TEKCO234_314) Tekco 2 3/4" Gamma Ray	3.69	2.75	20.00
GR	1.00					
Dataset: wuertz_1201-18h.db: Wattenberg/Wuertz_1201-18H/Log1/pass5.1 Total length: 21.42 ft Total weight: 147.00 lb O.D.: 3.12 in						



Company Verdad Resources  
 Well Wuertz 1201-18H  
 Field Wattenberg  
 County Weld

