



RADIAL BOND TOOL
GAMMA RAY
CCL

ENERGY SERVICES

Company		CIVITAS		Country USA				
Well		STATE ANTELOPE 31-34-16HNB						
Field		WATTENBURG						
County		WELD						
State		CO		Country USA				
Location:		API # : 05-123-37404		Other Services				
Permanent Datum		GL		Elevation 4772'				
Log Measured From		15 FT						
Drilling Measured From		KB		Elevation 4772'				
SEC 16 TWP 5N RGE 62W								
40.405340 -104.325110								
20-AUG-2025								
Run Number		ONE						
Depth Driller		11087'						
Depth Logger		6250'						
Bottom Logged Interval		6245'						
Top Log Interval		SURFACE						
Open Hole Size		8 3/4"						
Type Fluid		WATER						
Density / Viscosity		N/A						
Max. Recorded Temp.		°						
Estimated Cement Top		N/A						
Time Well Ready		ON ARRIVAL						
Time Logger on Bottom		N/A						
Equipment Number		7770						
Location		PLATTEVILLE ,CO						
Recorded By		W. Wacker						
Witnessed By		Robie Dampier						
Borehole Record		Tubing Record						
Run Number		Bit	From	To	Size	Weight	From	To
Casing Record		Size			Mgt/Ft	Top		Bottom
Surface String		9 5/8"			36#	SURFACE		520'
Prot. String		7"			26#	SURFACE		6864'
Production String		4 1/2"			11.6#	6547'		11034'
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.

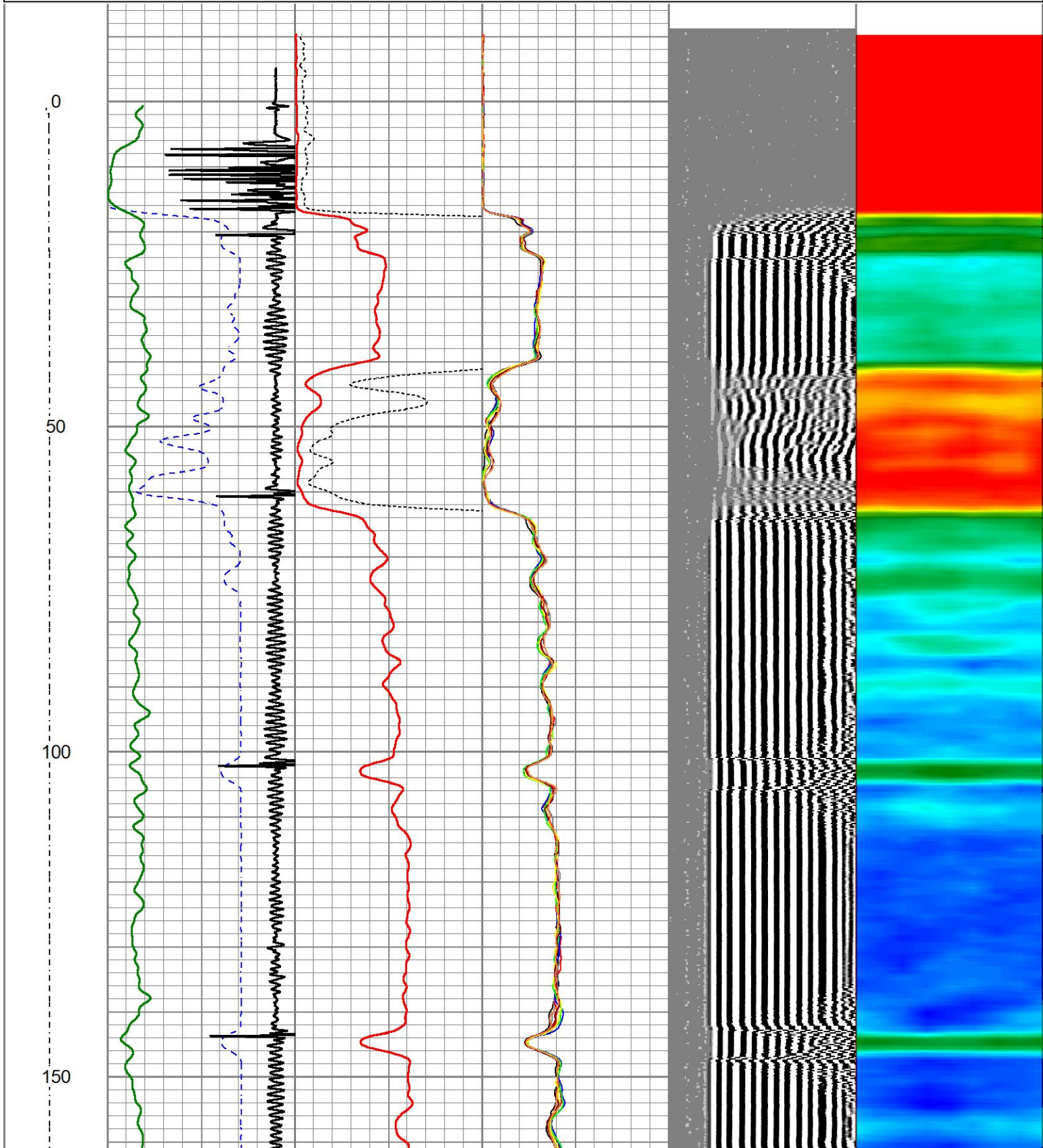
Comments

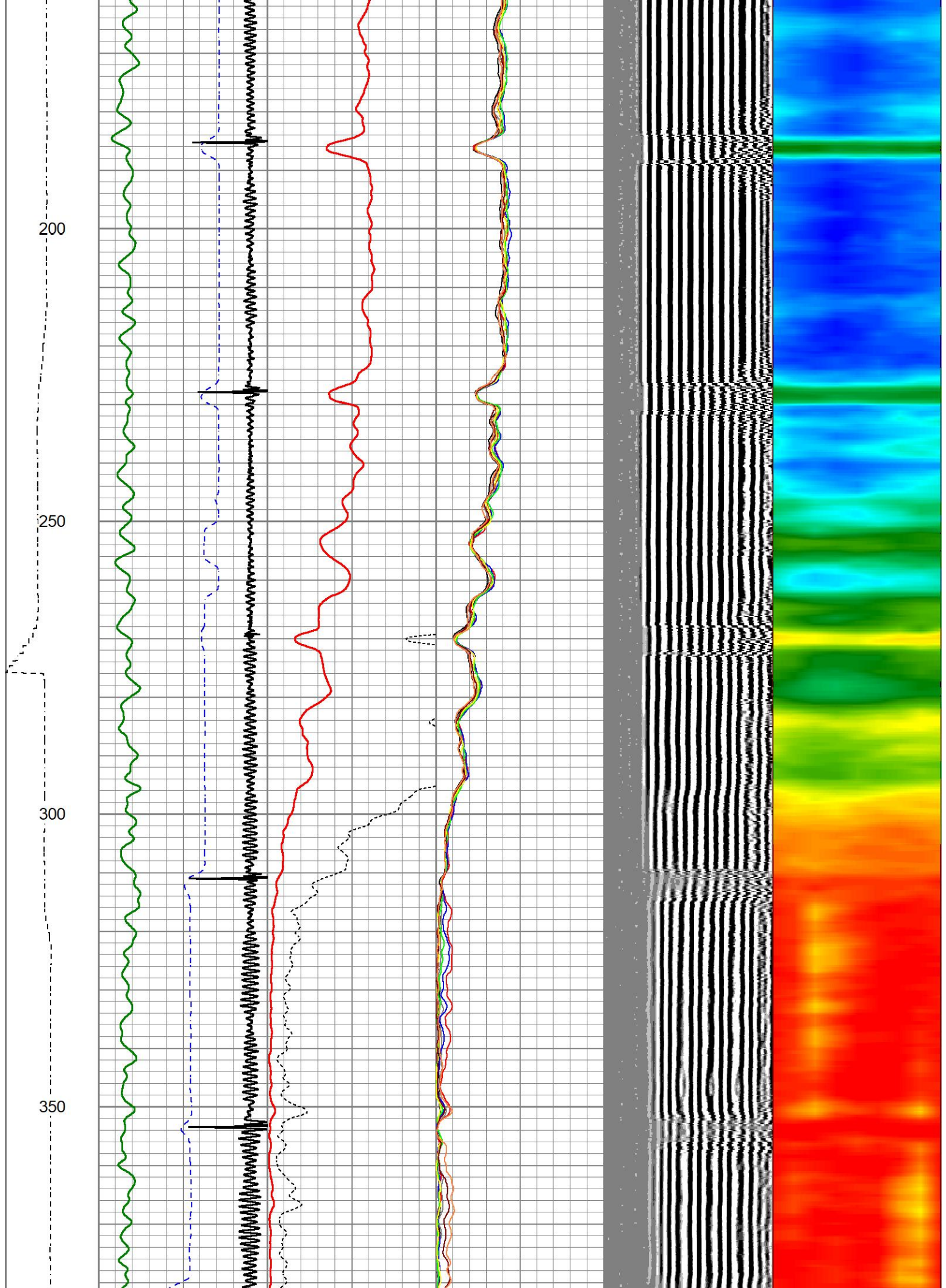
RAN CBL TO VERIFY CEMENT BOND
WELL LOADED ON ARRIVAL
CORRELATED TO KB AT 15 FT
RECORDED WITH 500 PSI SURFACE INDUCED PRESSURE
RECORDED IN OIL CUT FLUID

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
HEADVOLT	18.38		CHD-1_7/16_Cabehead 1 7/16 Cablehead	1.00	1.44	5.00

Database File	7-inch-civ-state-antelope-31-34-16hnb-rcbl.db
Dataset Pathname	2-cbl/2-M
Presentation Format	ips_rbtcolorcivitas2
Dataset Creation	Wed Aug 20 16:12:14 2025
Charted by	Depth in Feet scaled 1:240

LSPD	650	TT (usec)	150	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1	Cement Map	8
(ft/min)	-9	CCL	1	0	AMPx5 (mV)	20	0	AMPS2	150						
0	-250	0	GR (GAPI)	150			0	AMPS3	150						
		150	GR (GAPI)	500			0	AMPS4	150						
							0	AMPS5	150						
							0	AMPS6	150						
							0	AMPS7	150						
							0	AMPS8	150						





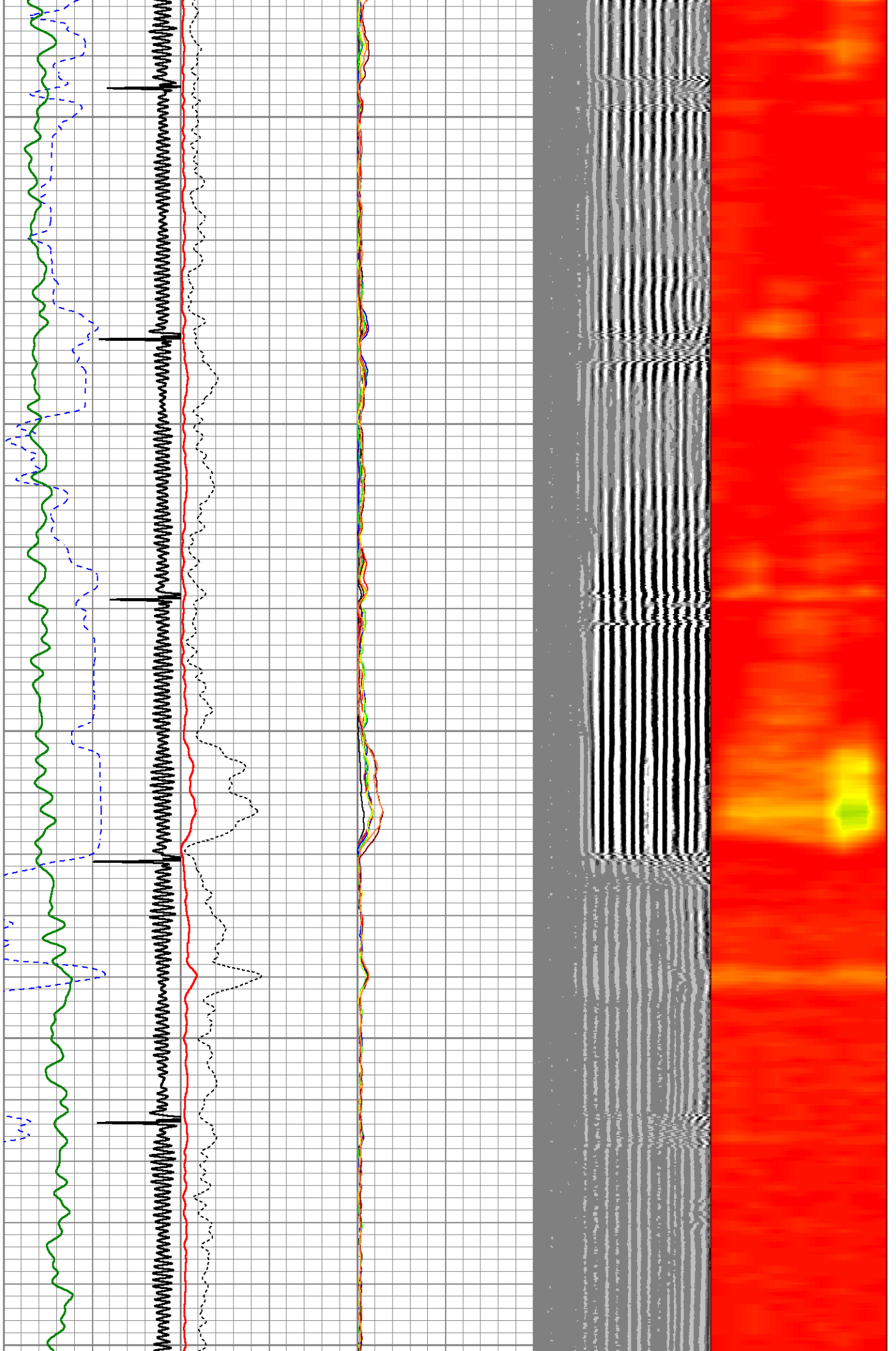
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450

500

550

600

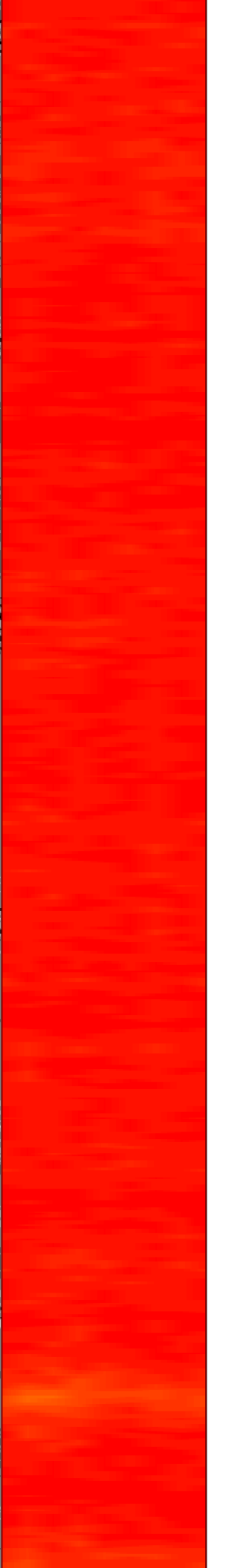
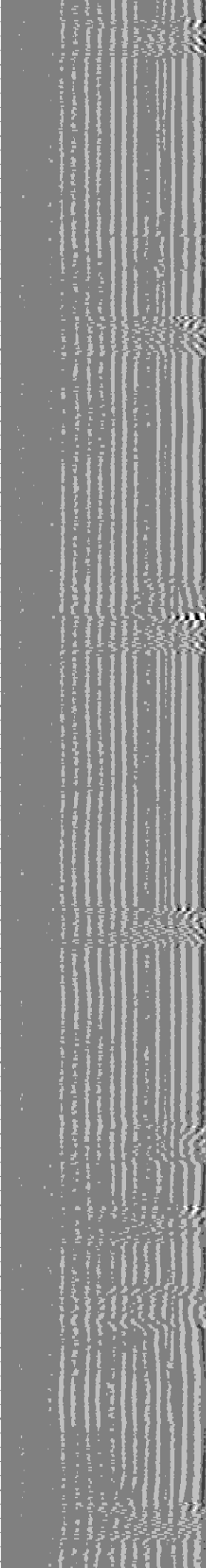
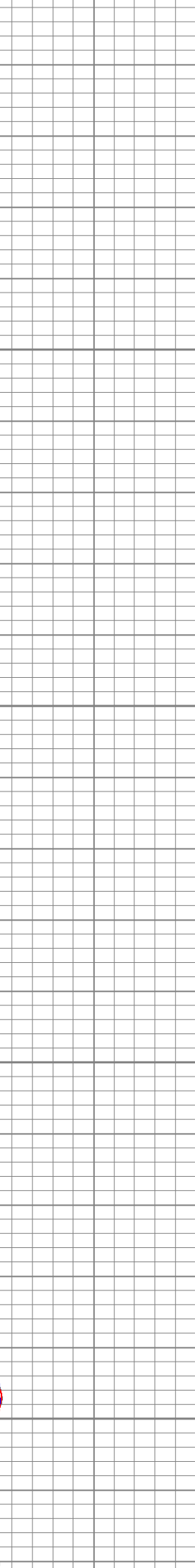
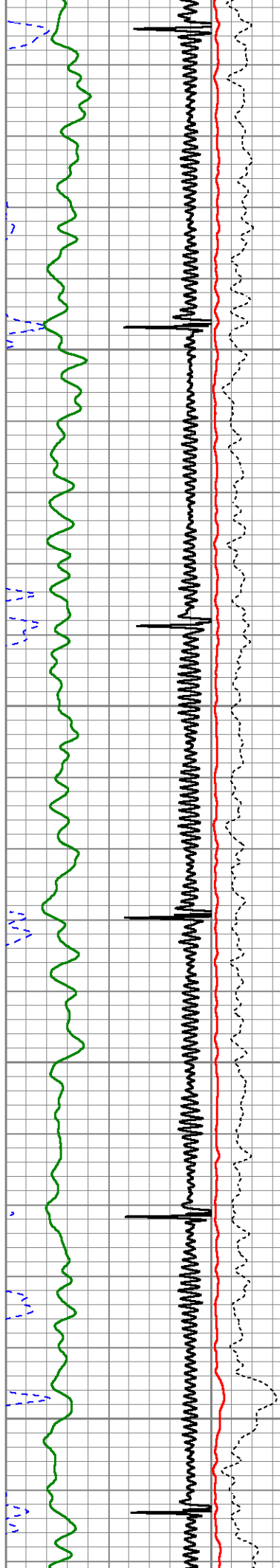


650

700

750

800

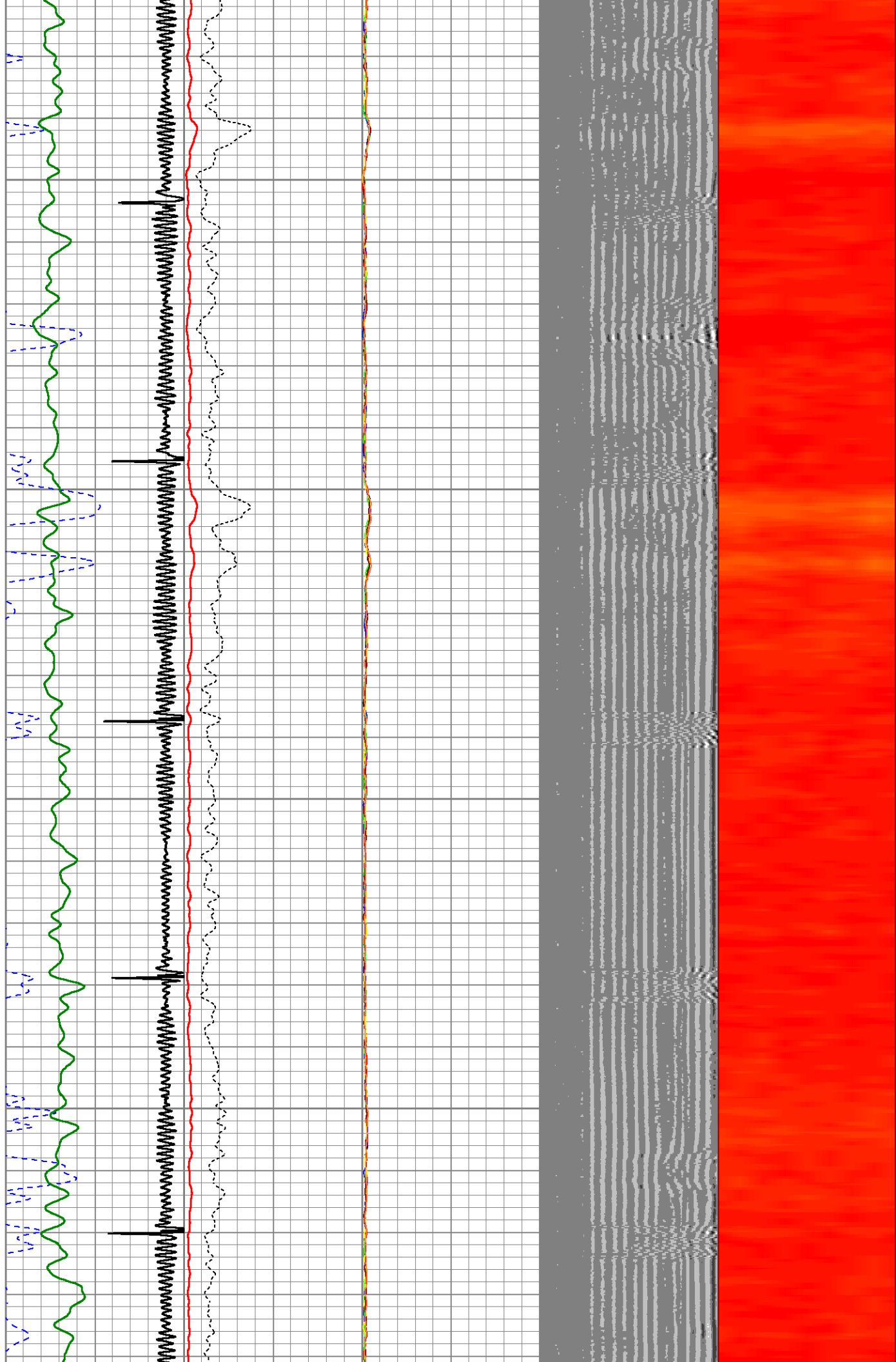


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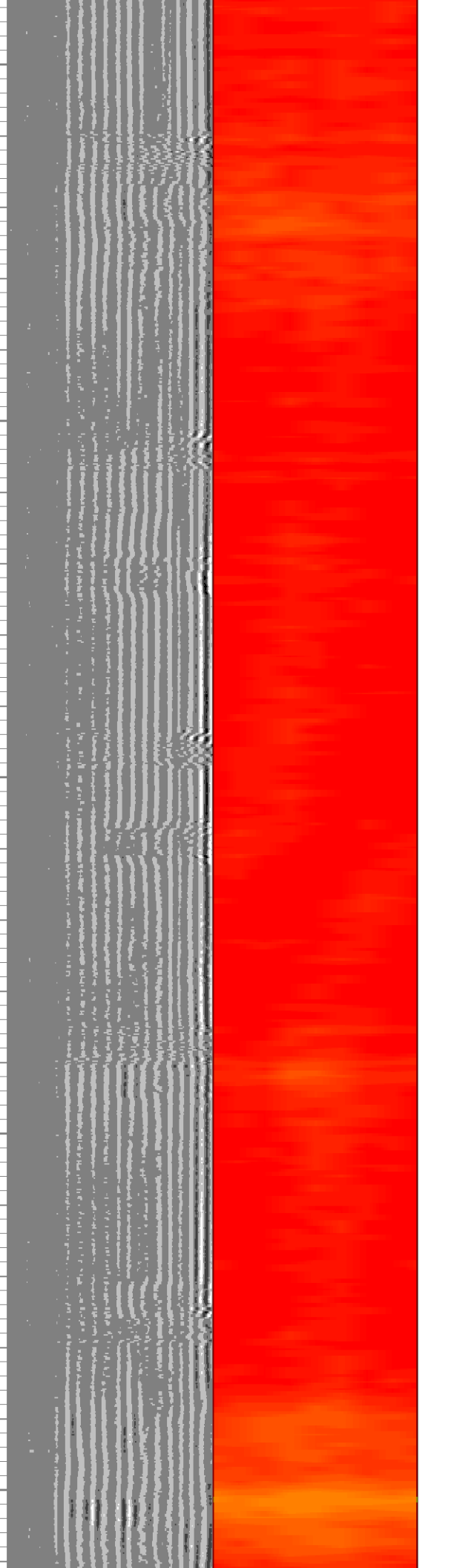
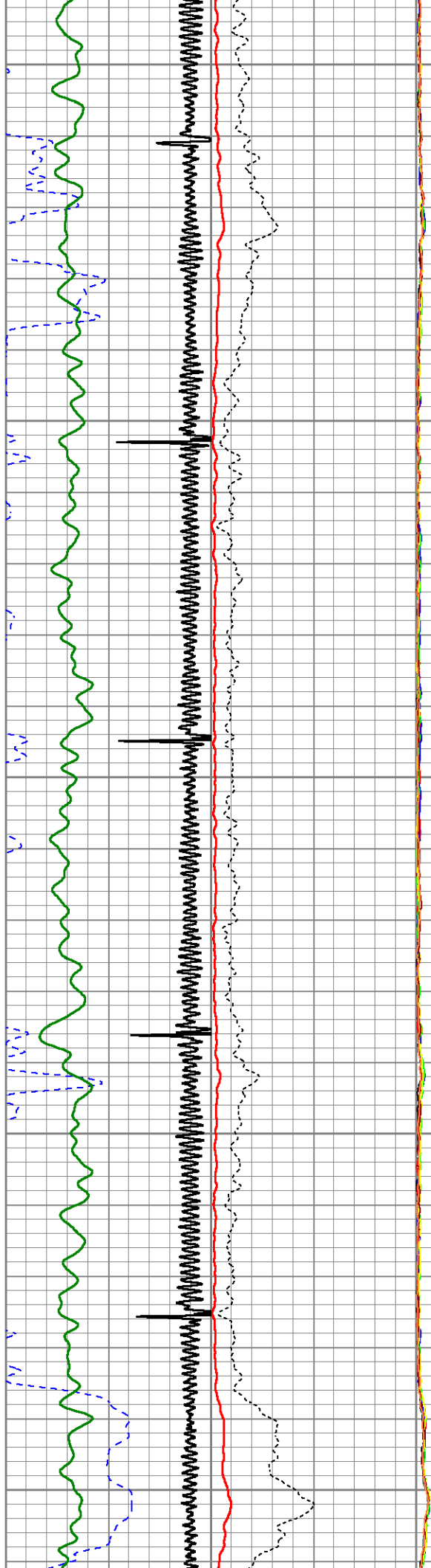
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950

1000



1050
1100
1150
1200
1250

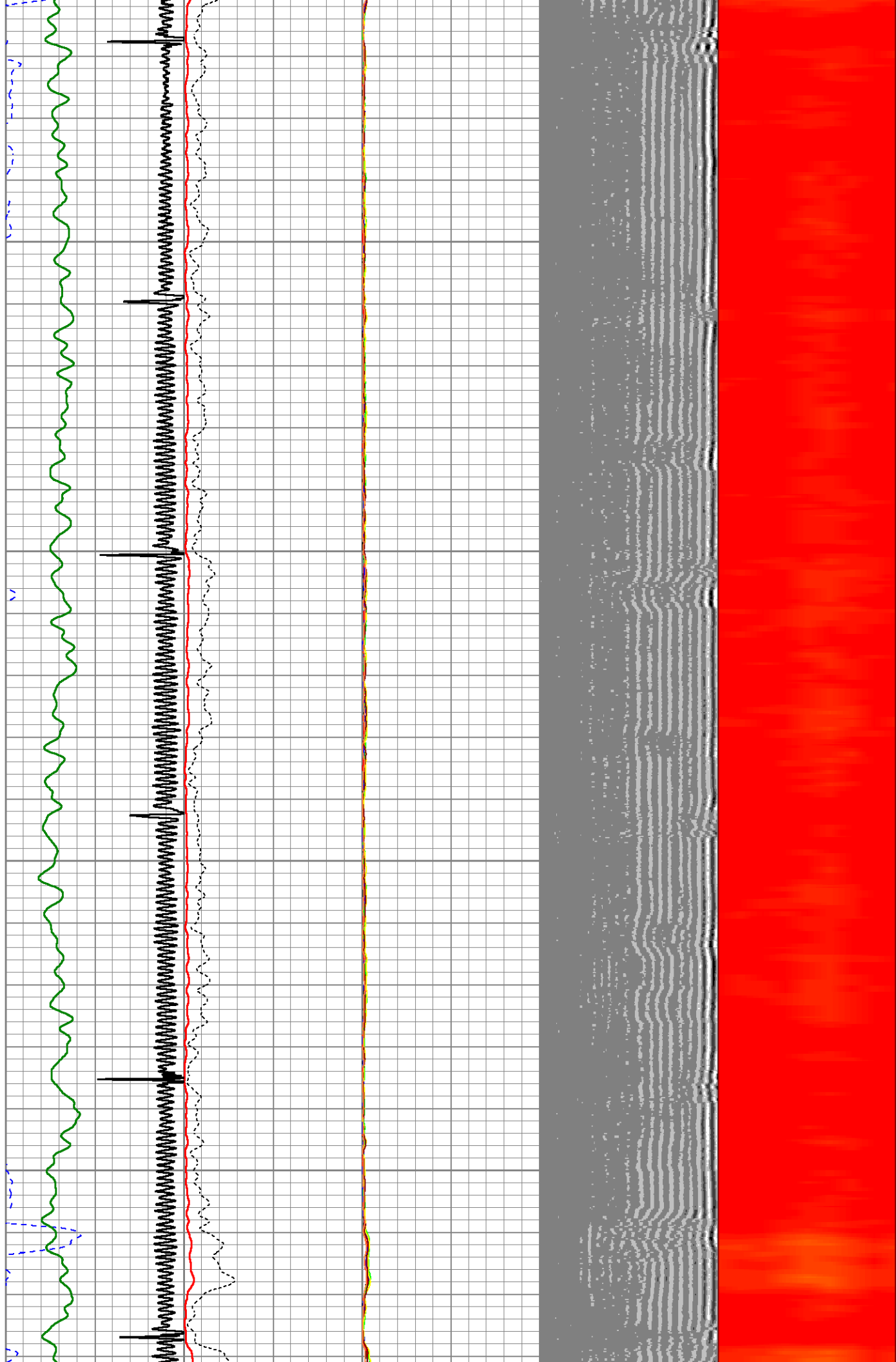


1300

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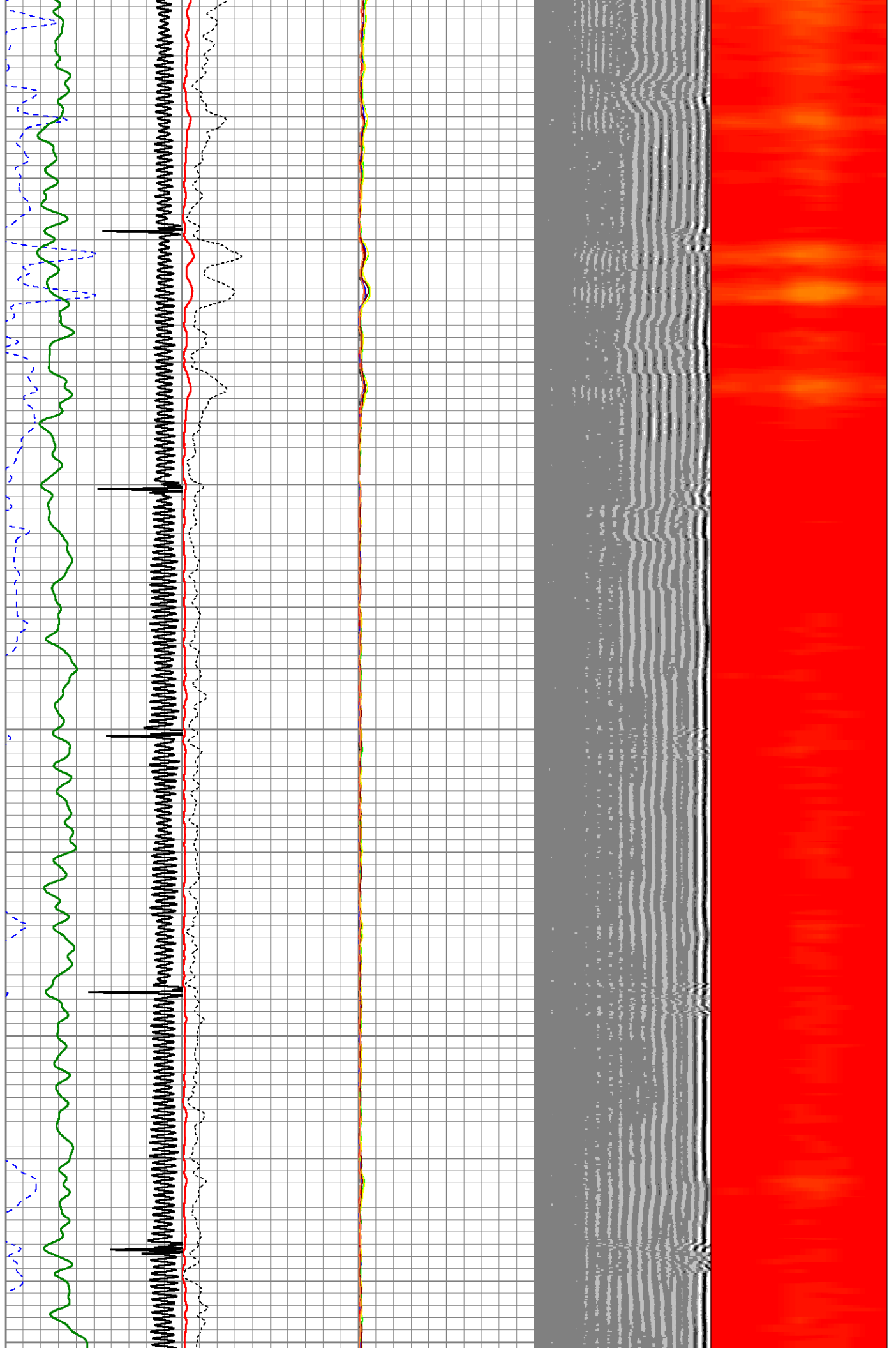
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1700

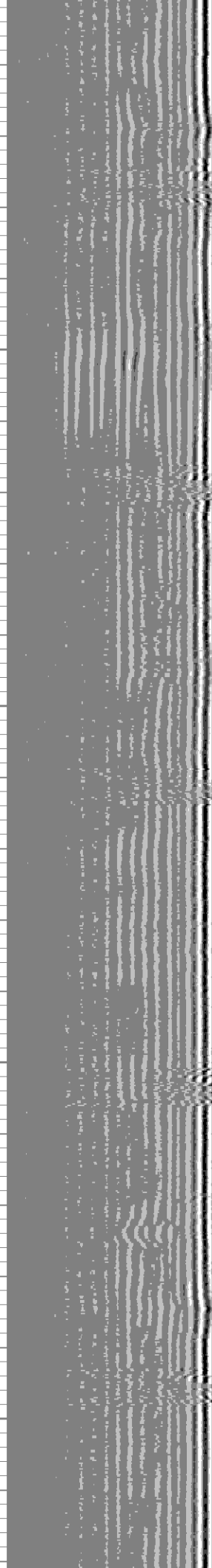
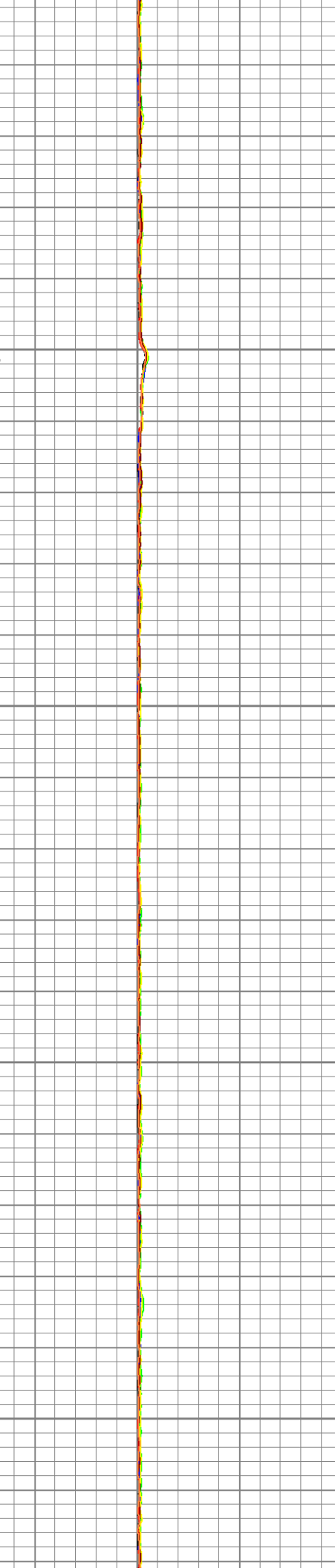
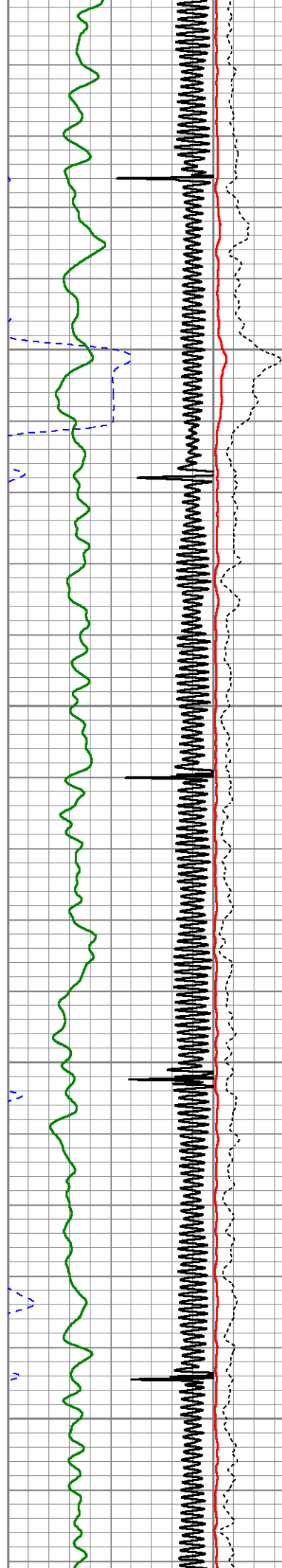


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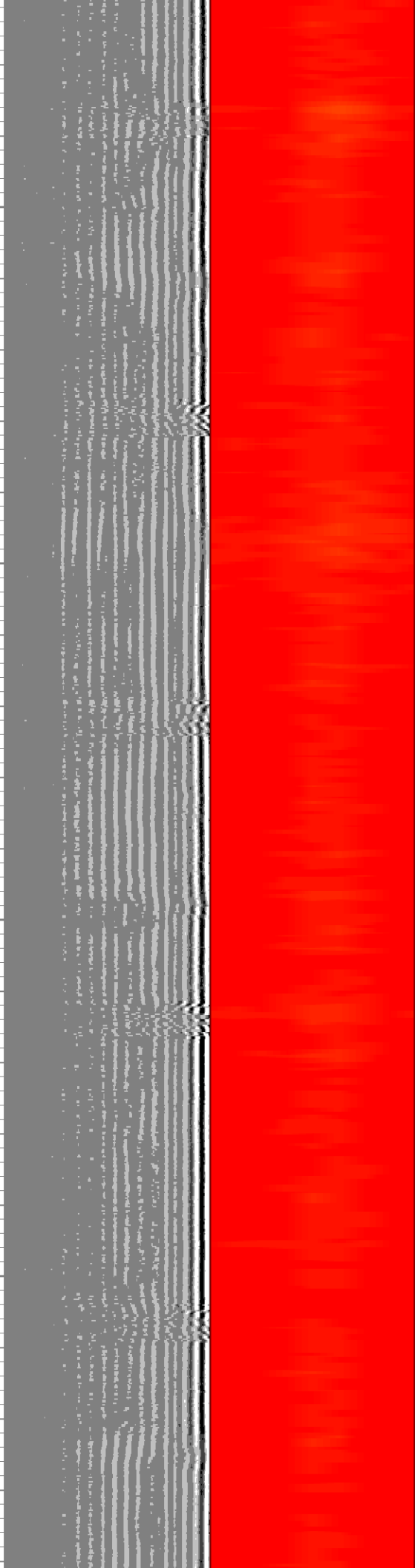
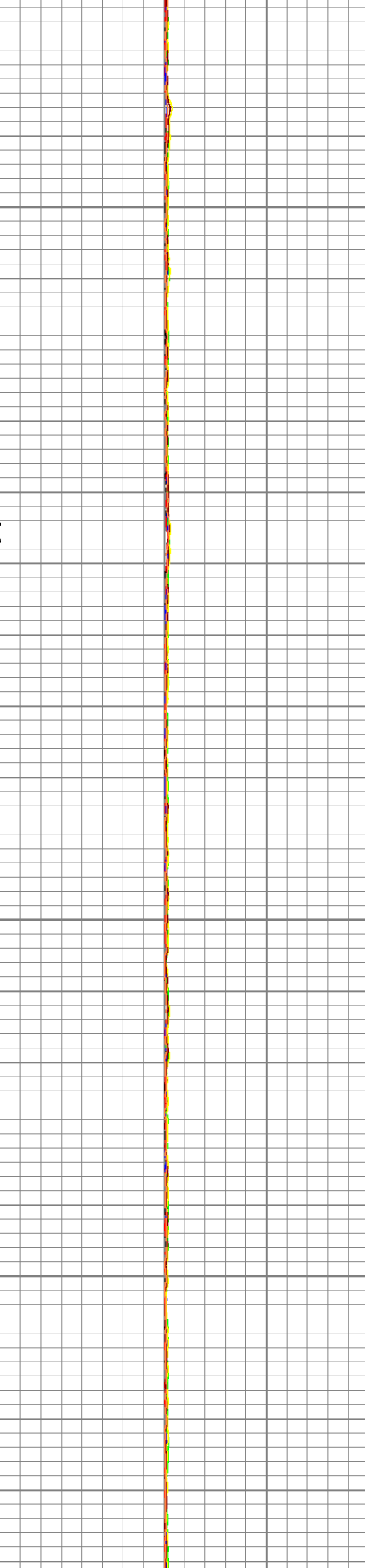
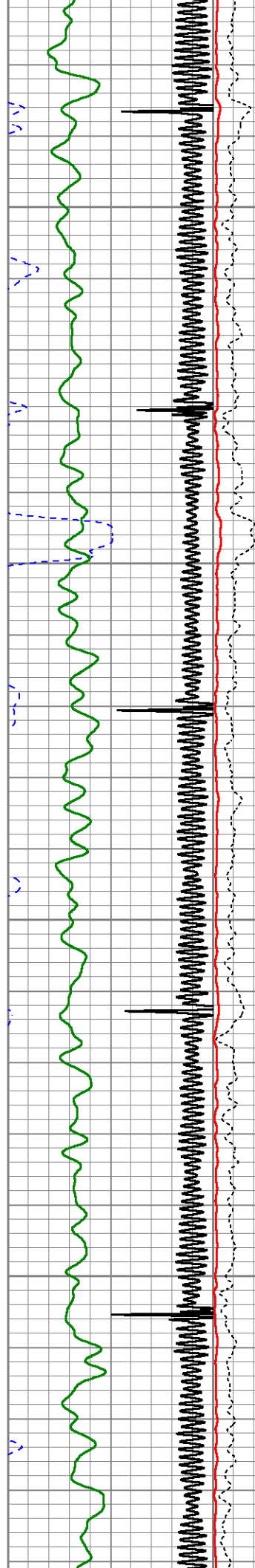


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2000

2050

2100



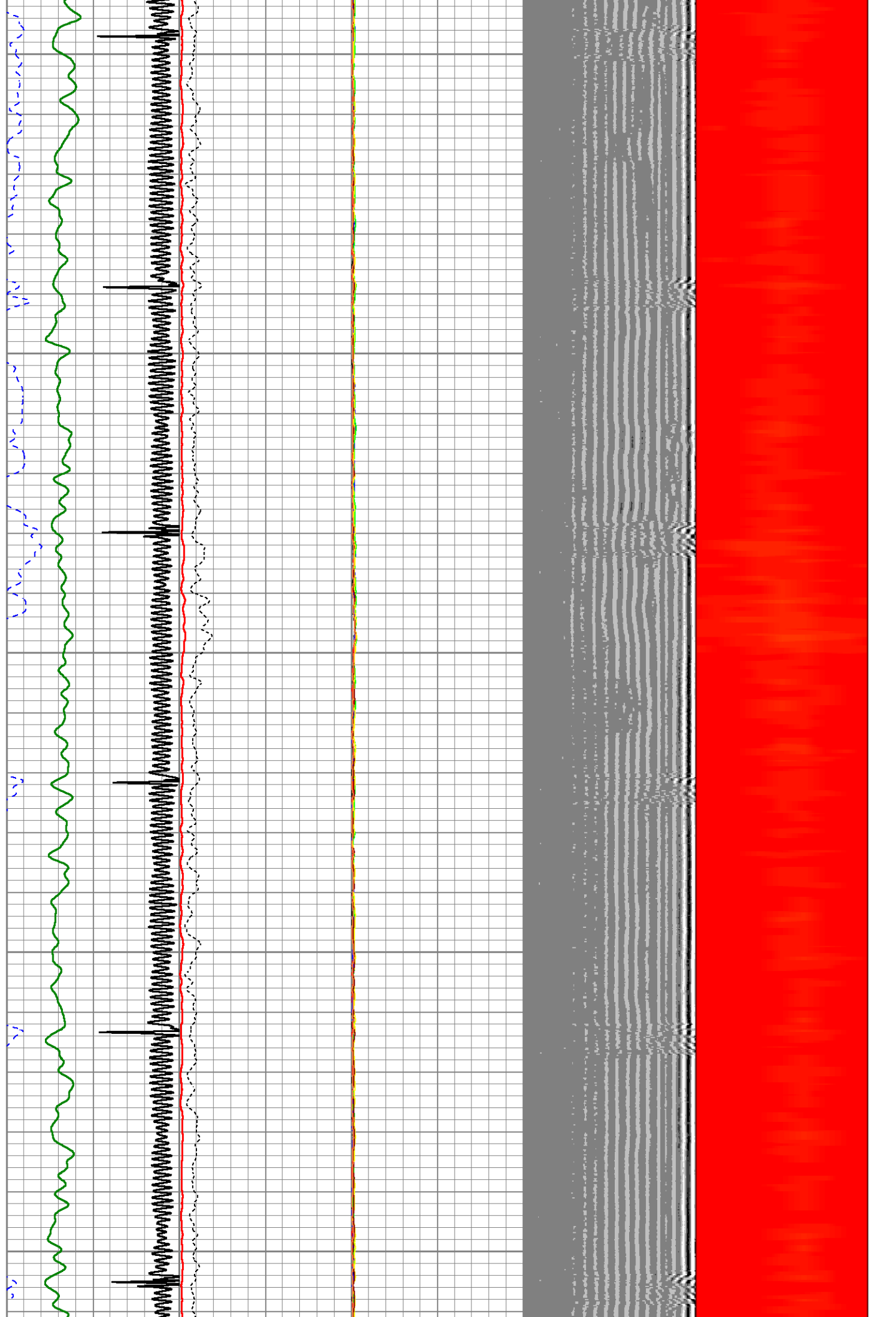
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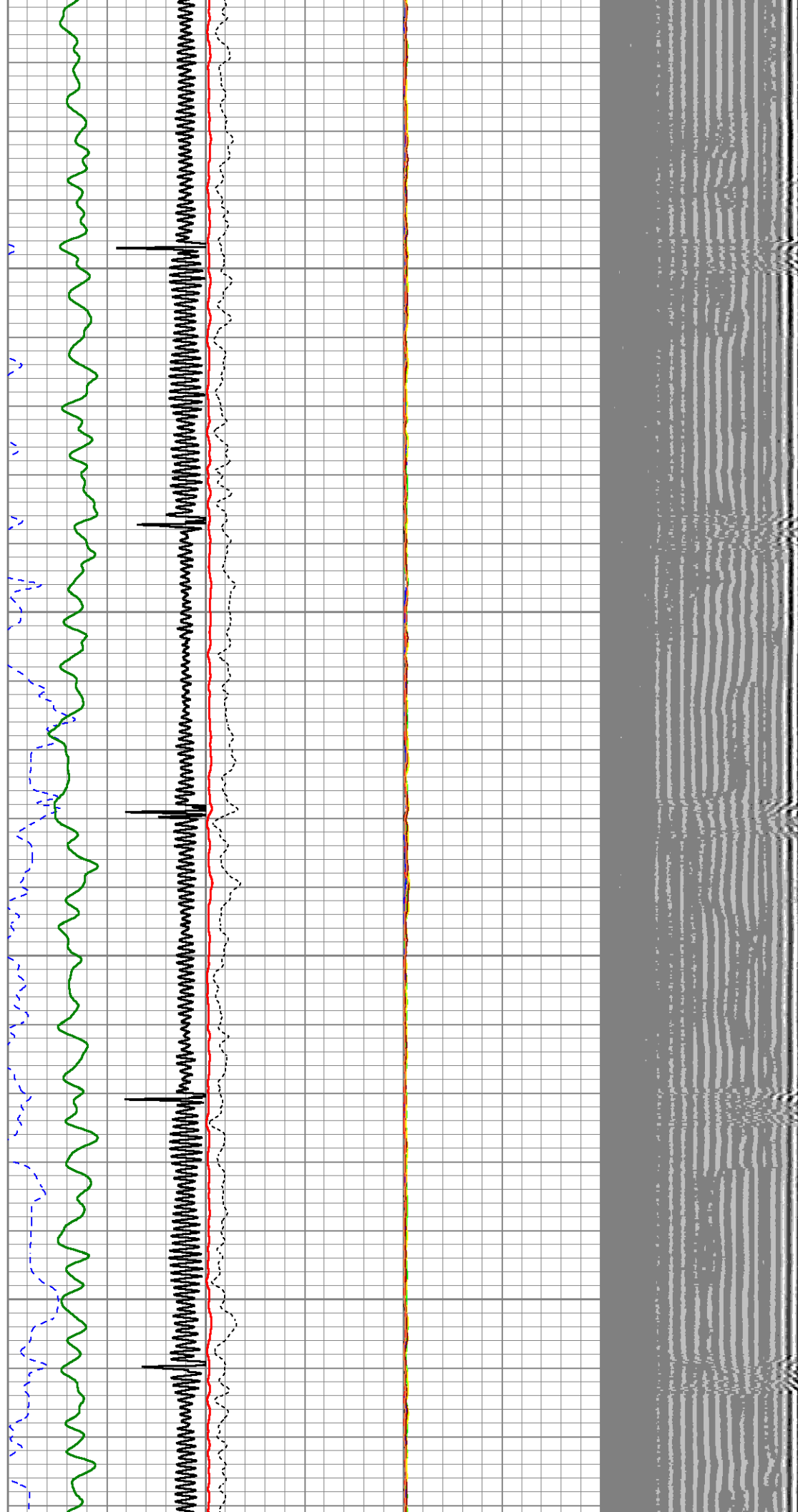


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2500

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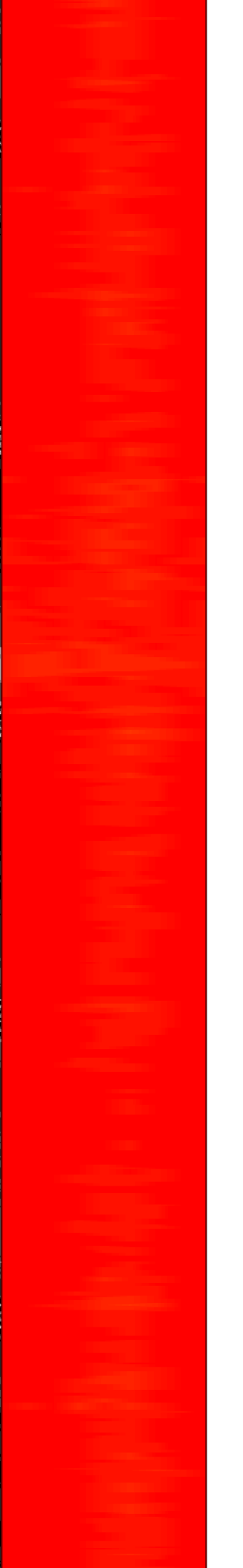
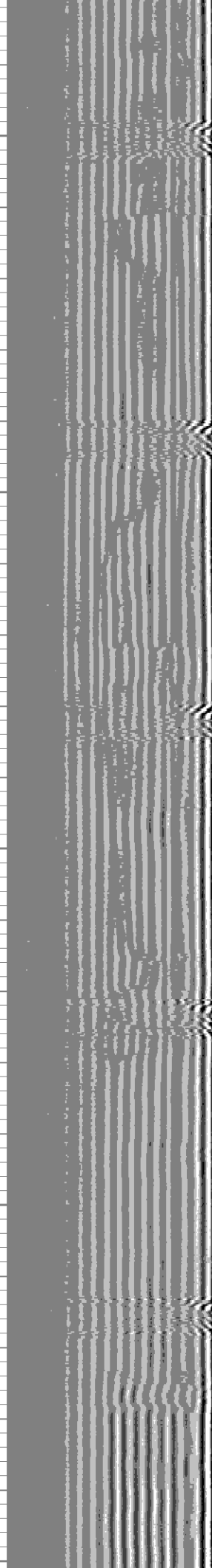
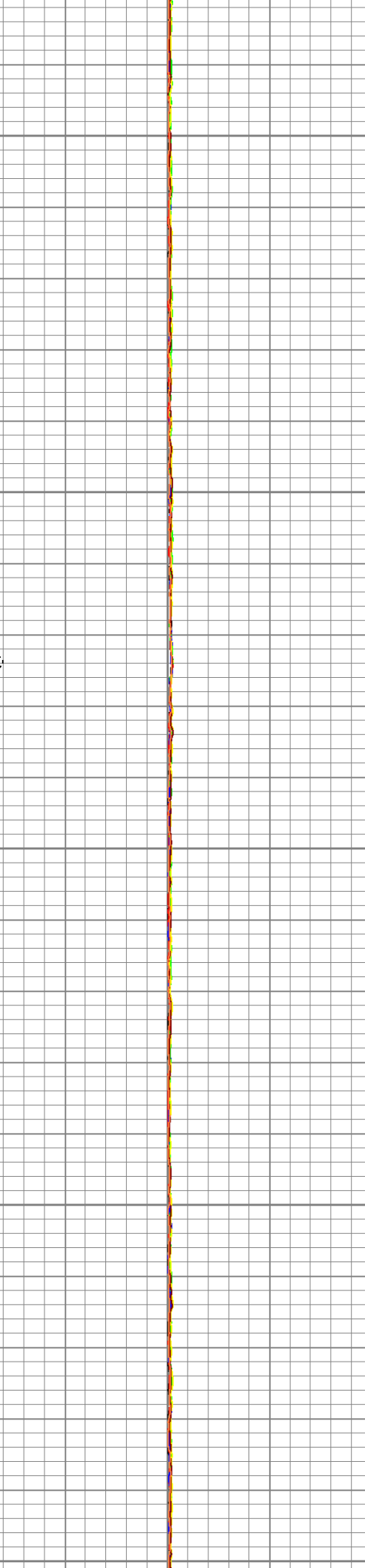
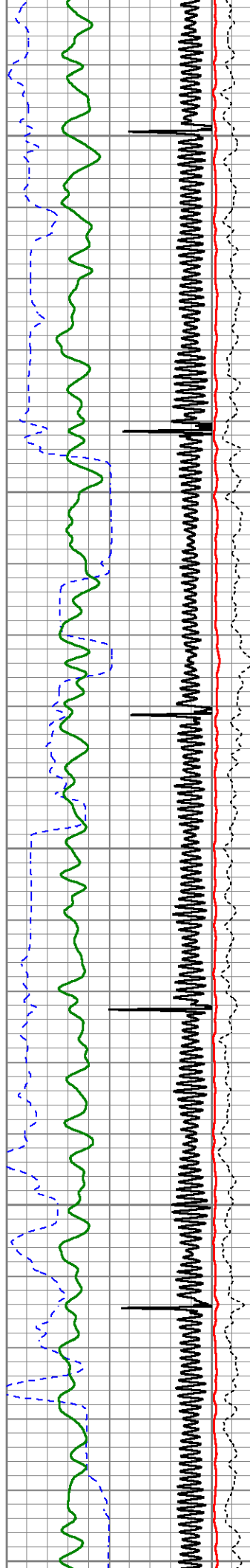
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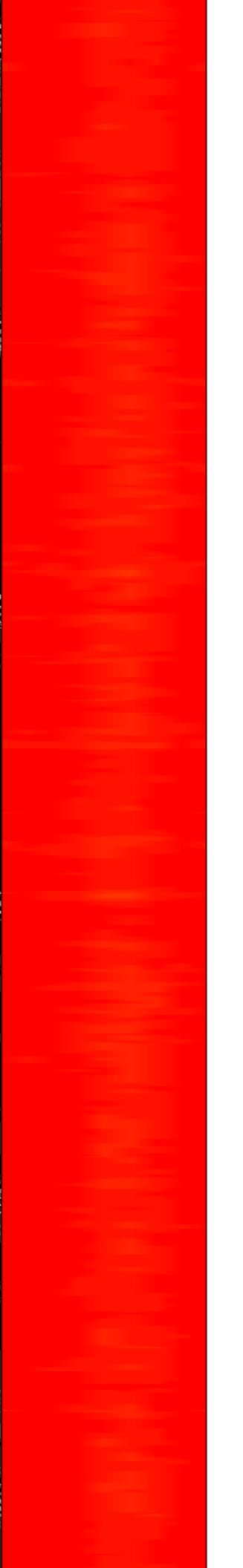
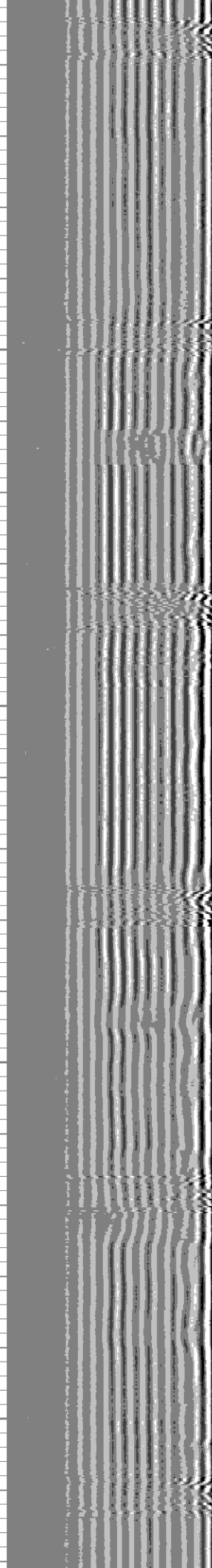
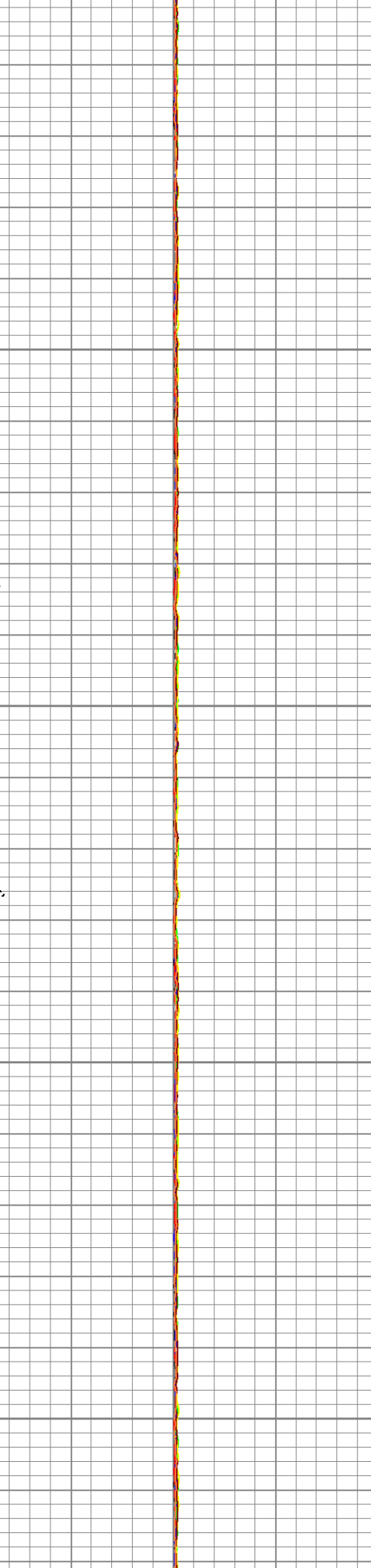
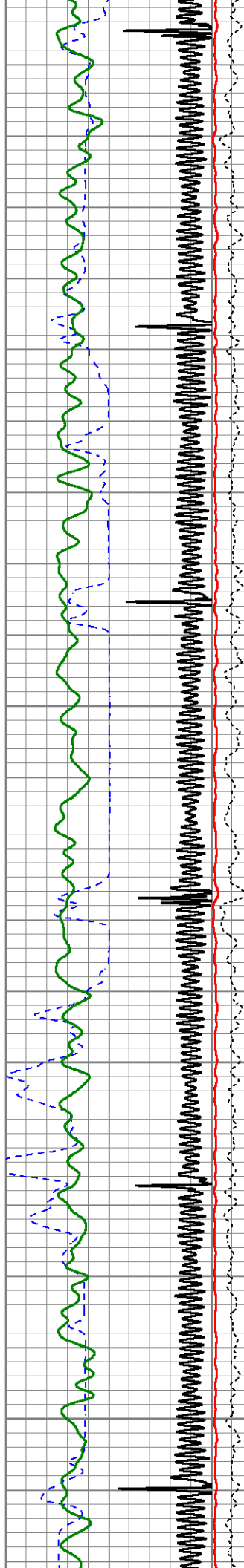


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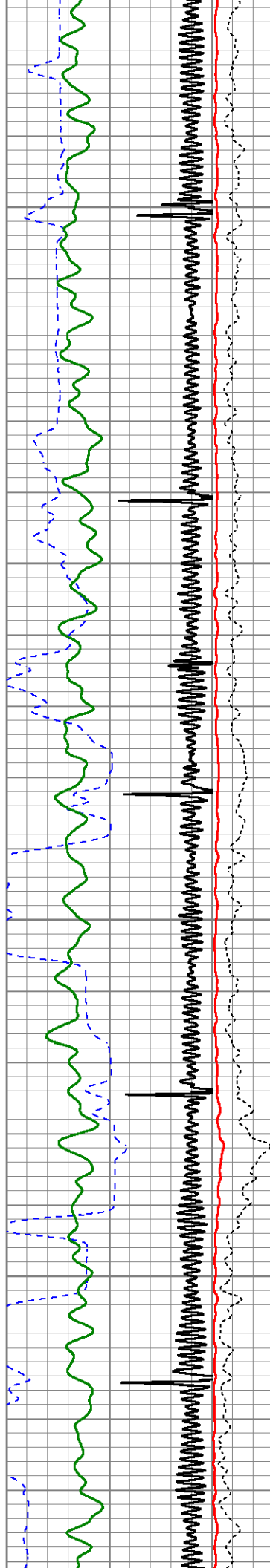


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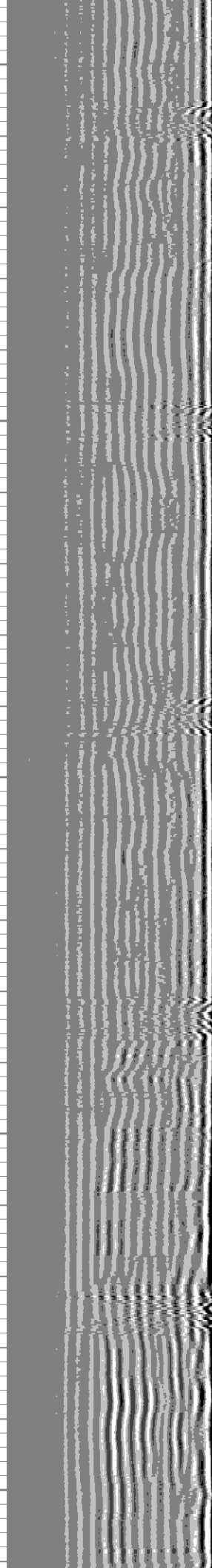
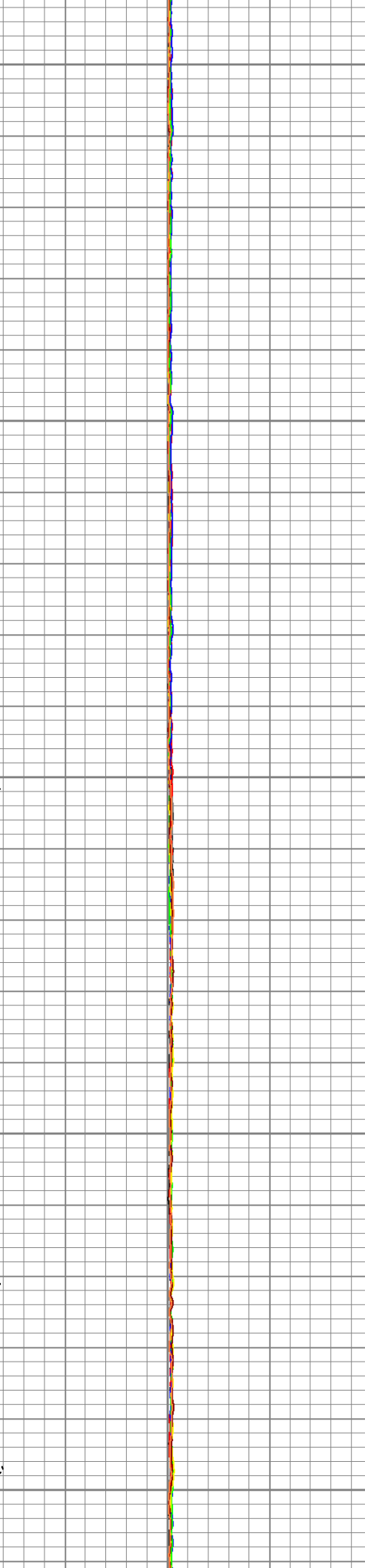
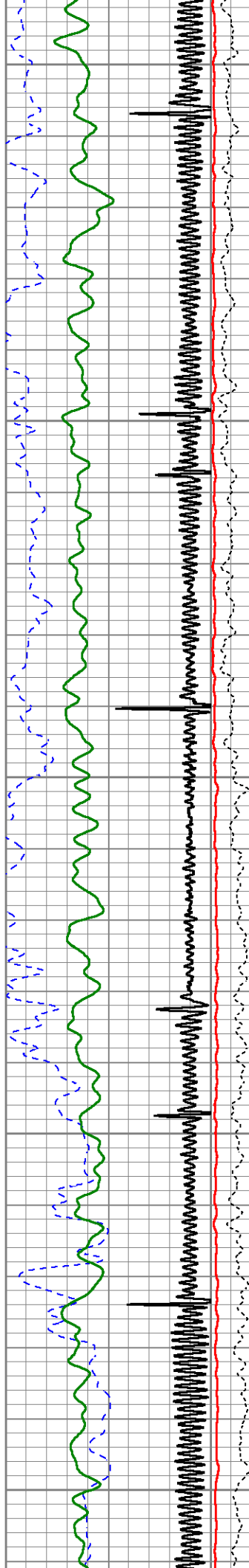
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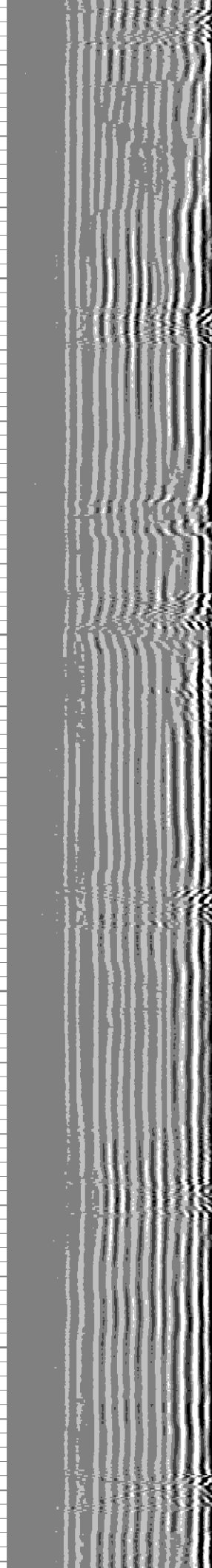
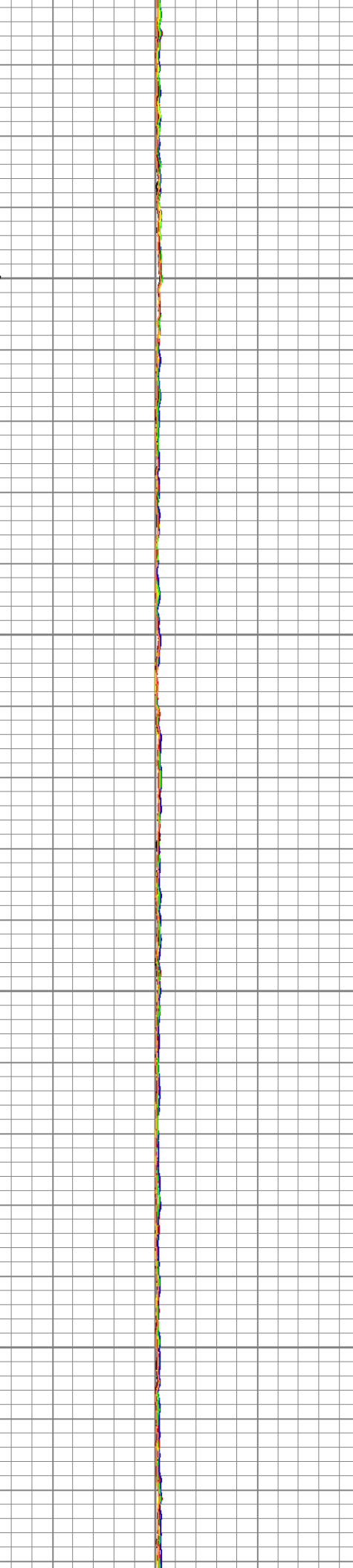
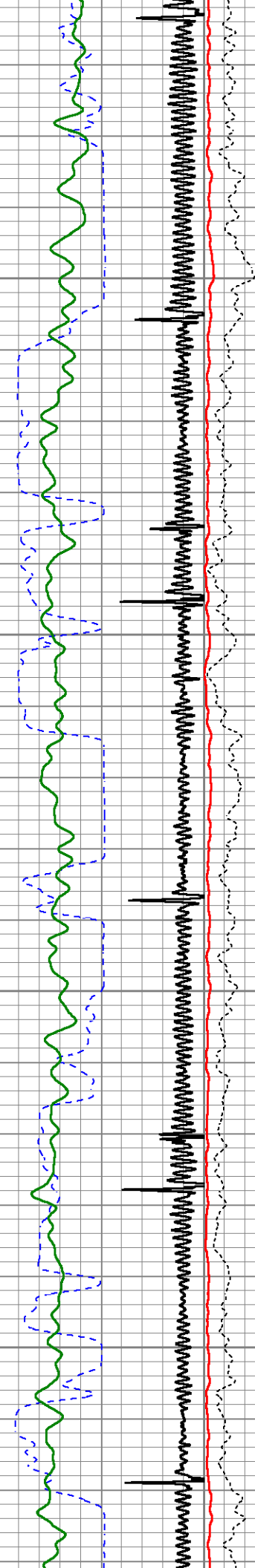


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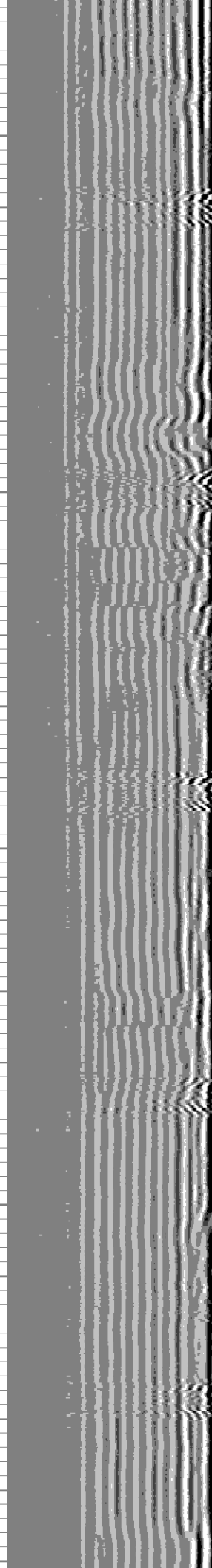
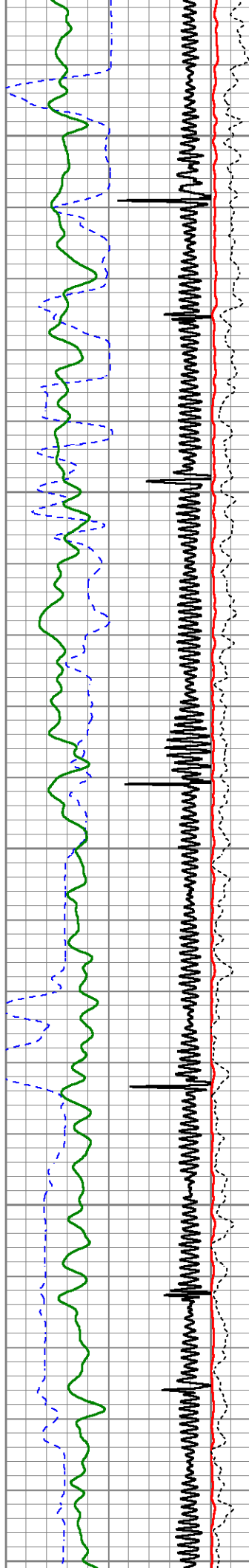
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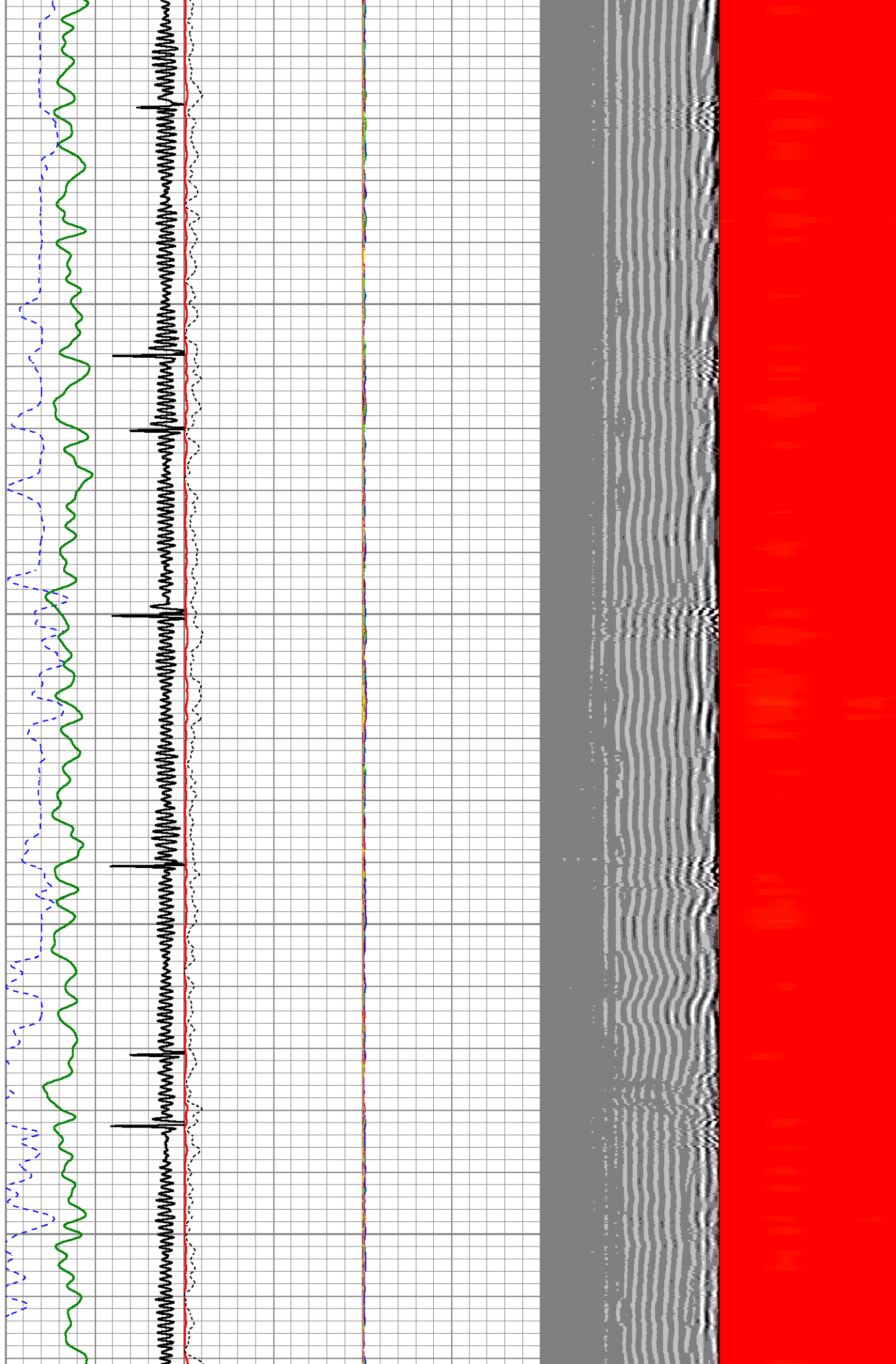


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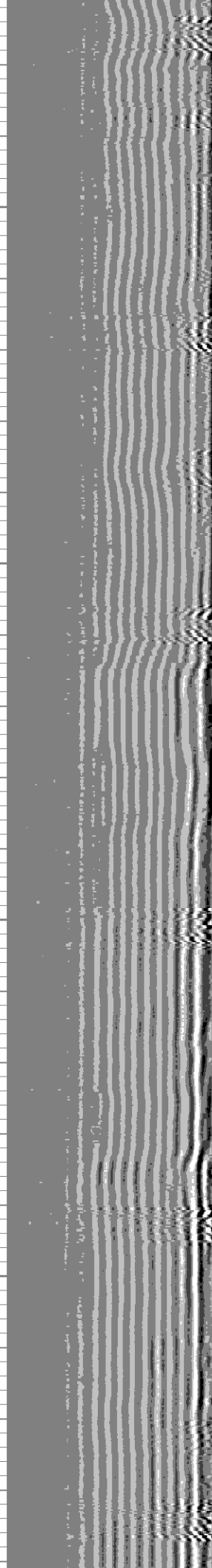
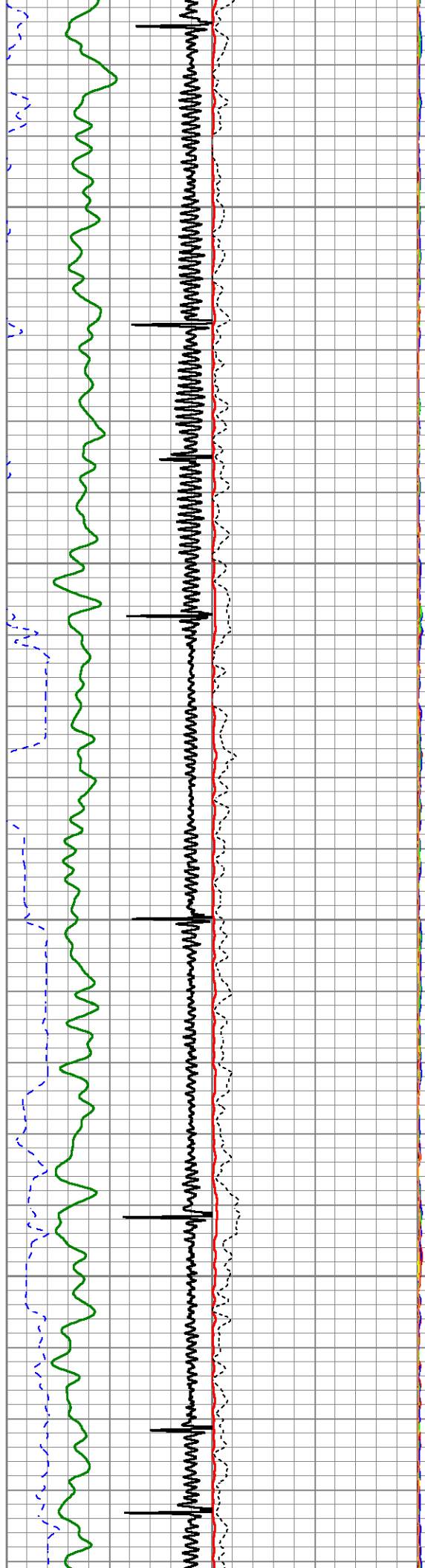


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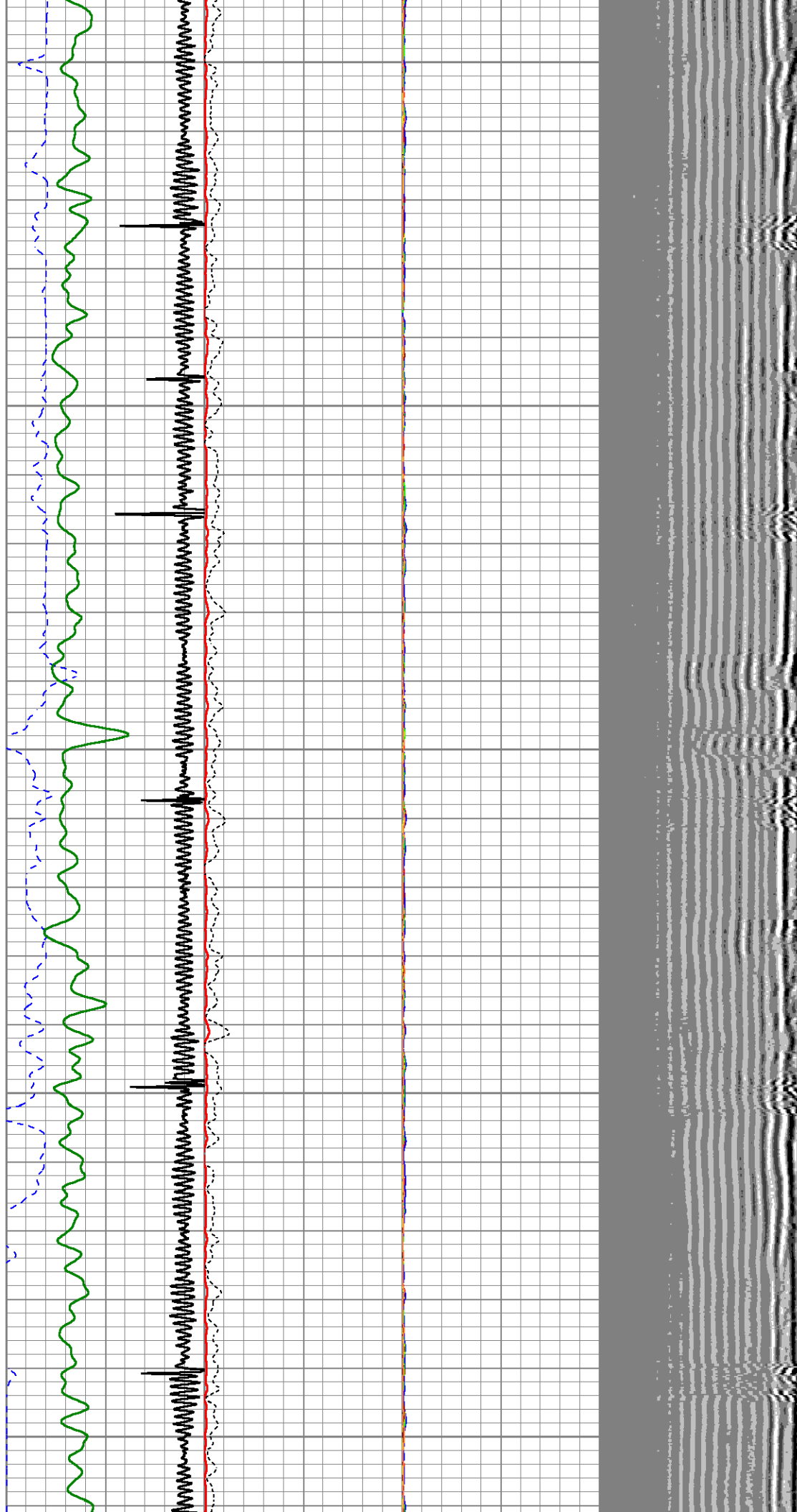
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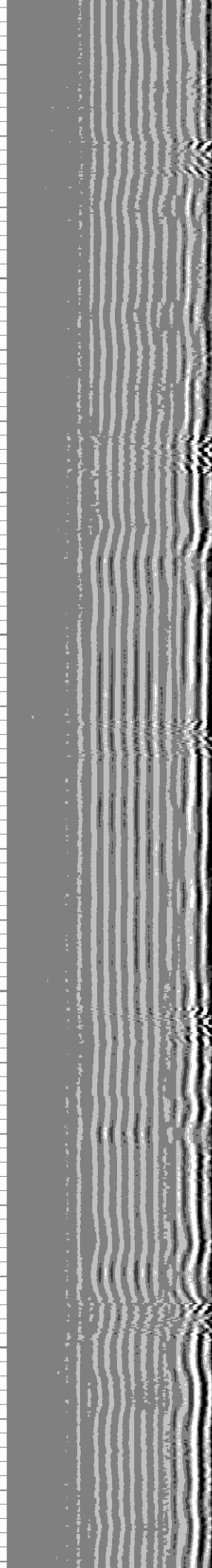
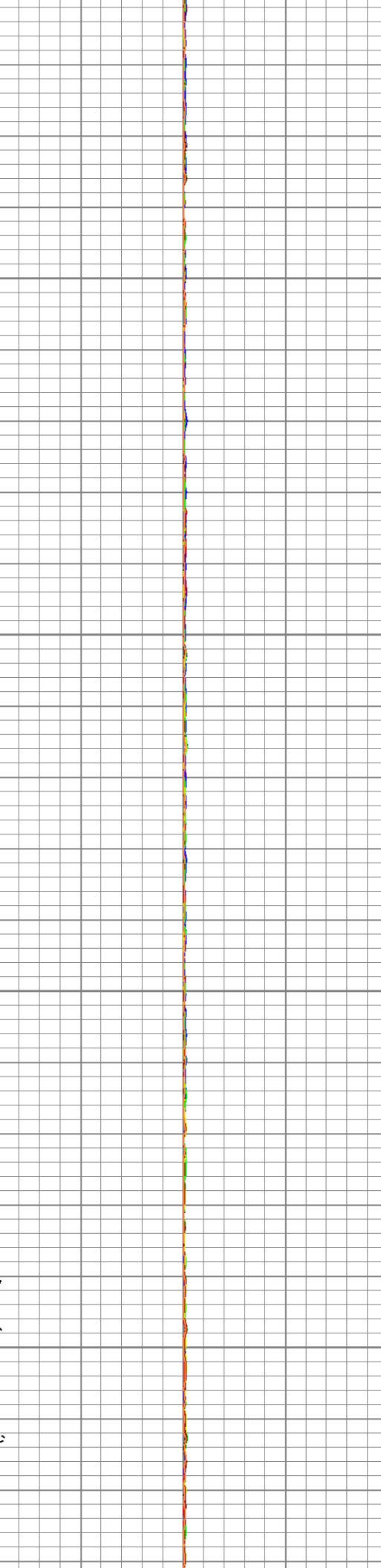
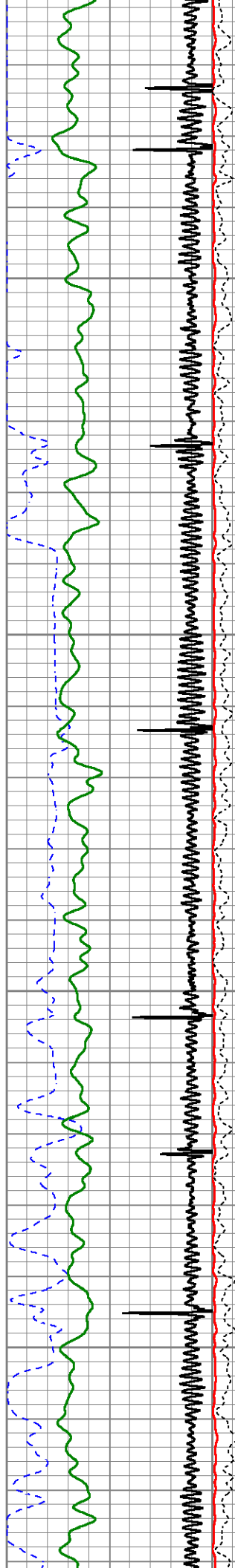


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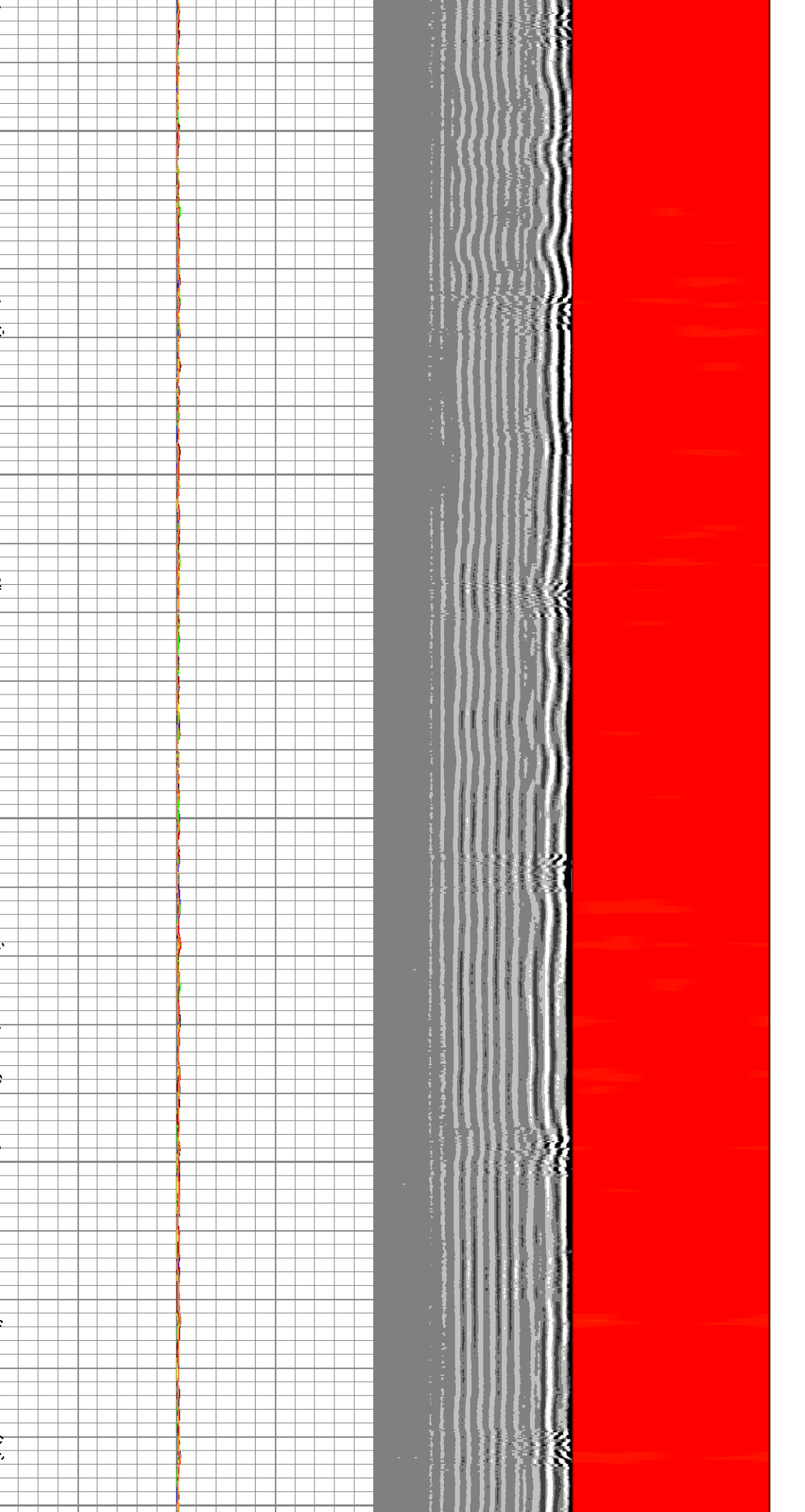
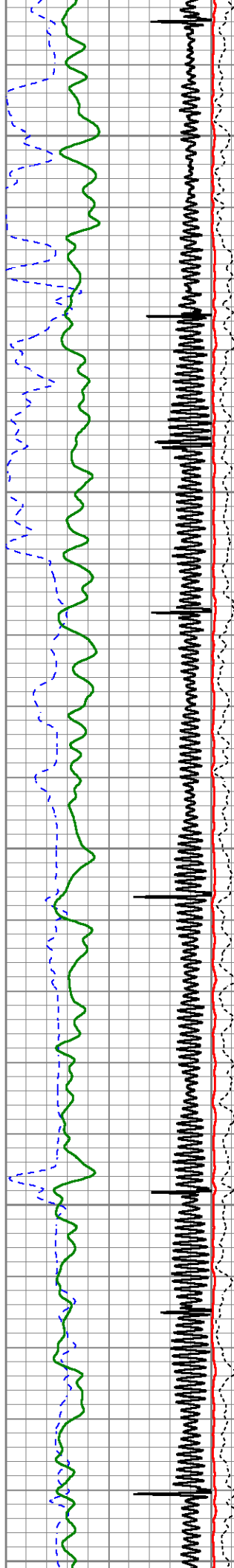
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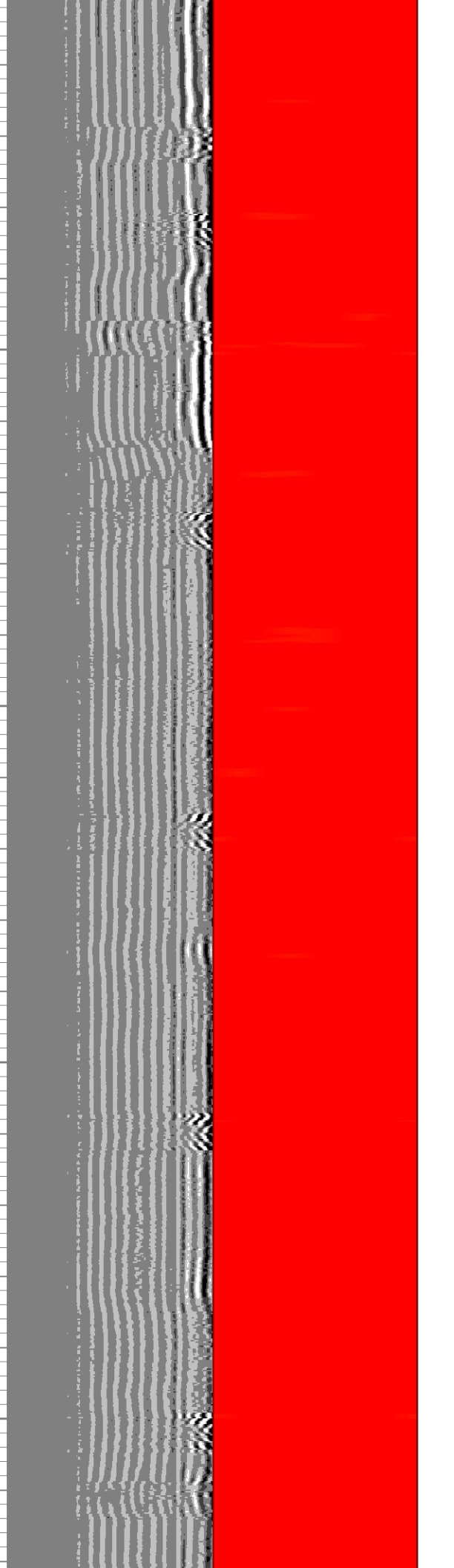
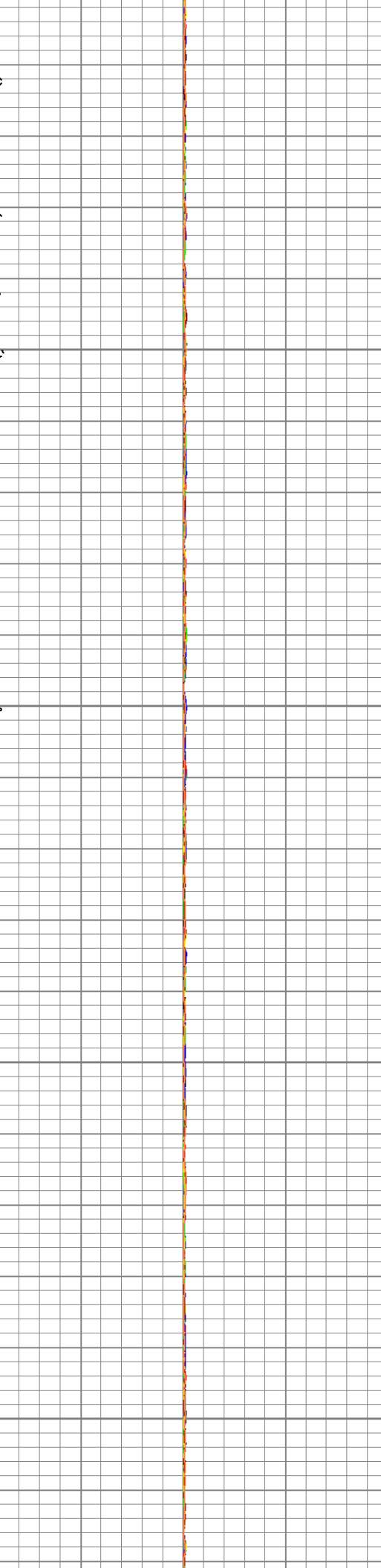
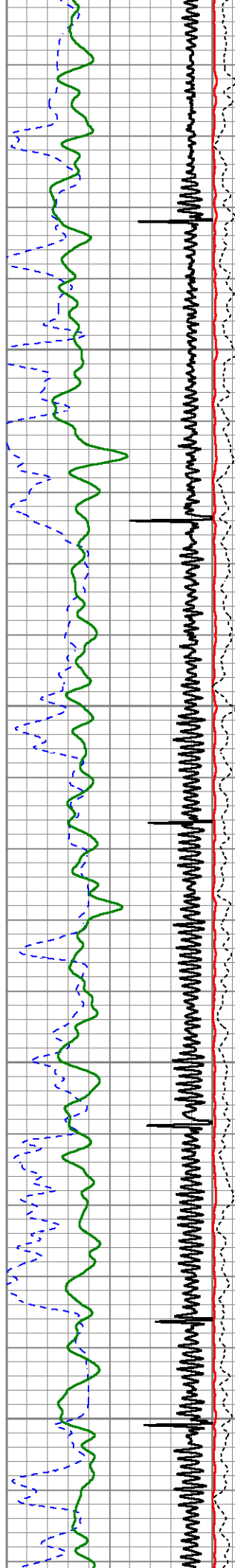


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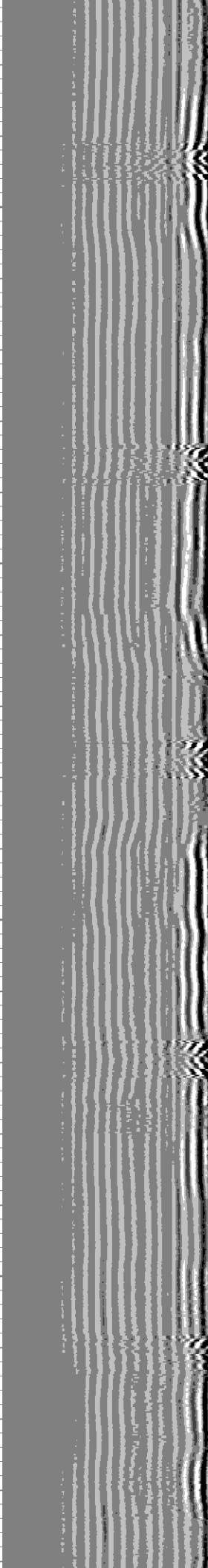
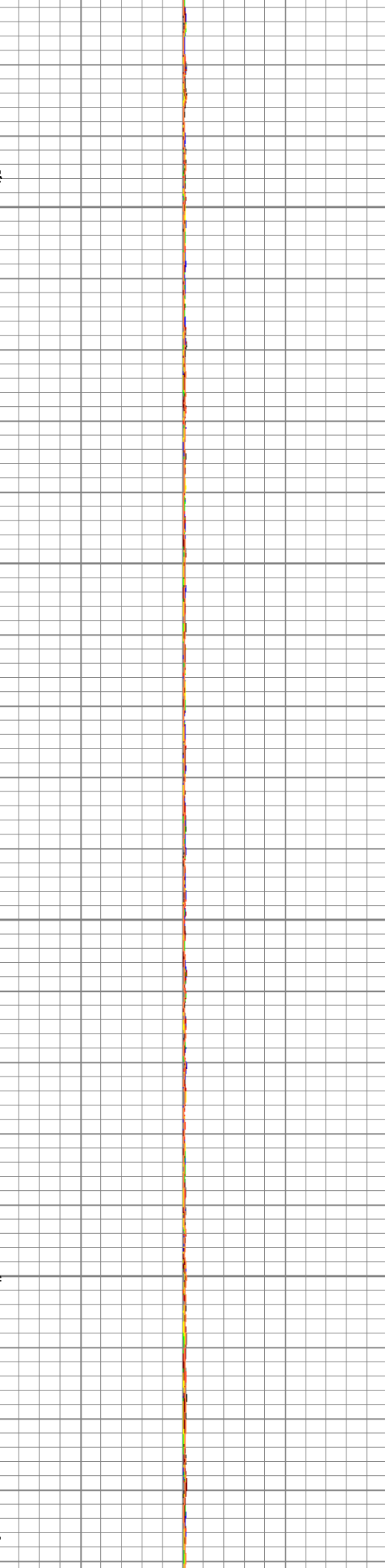
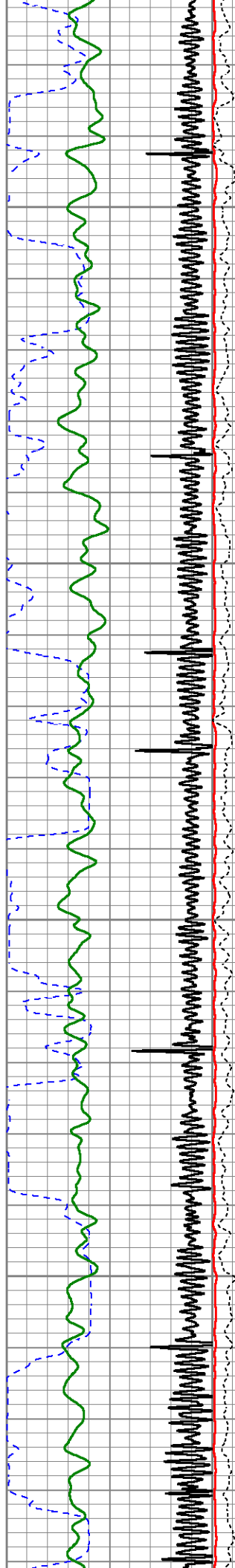


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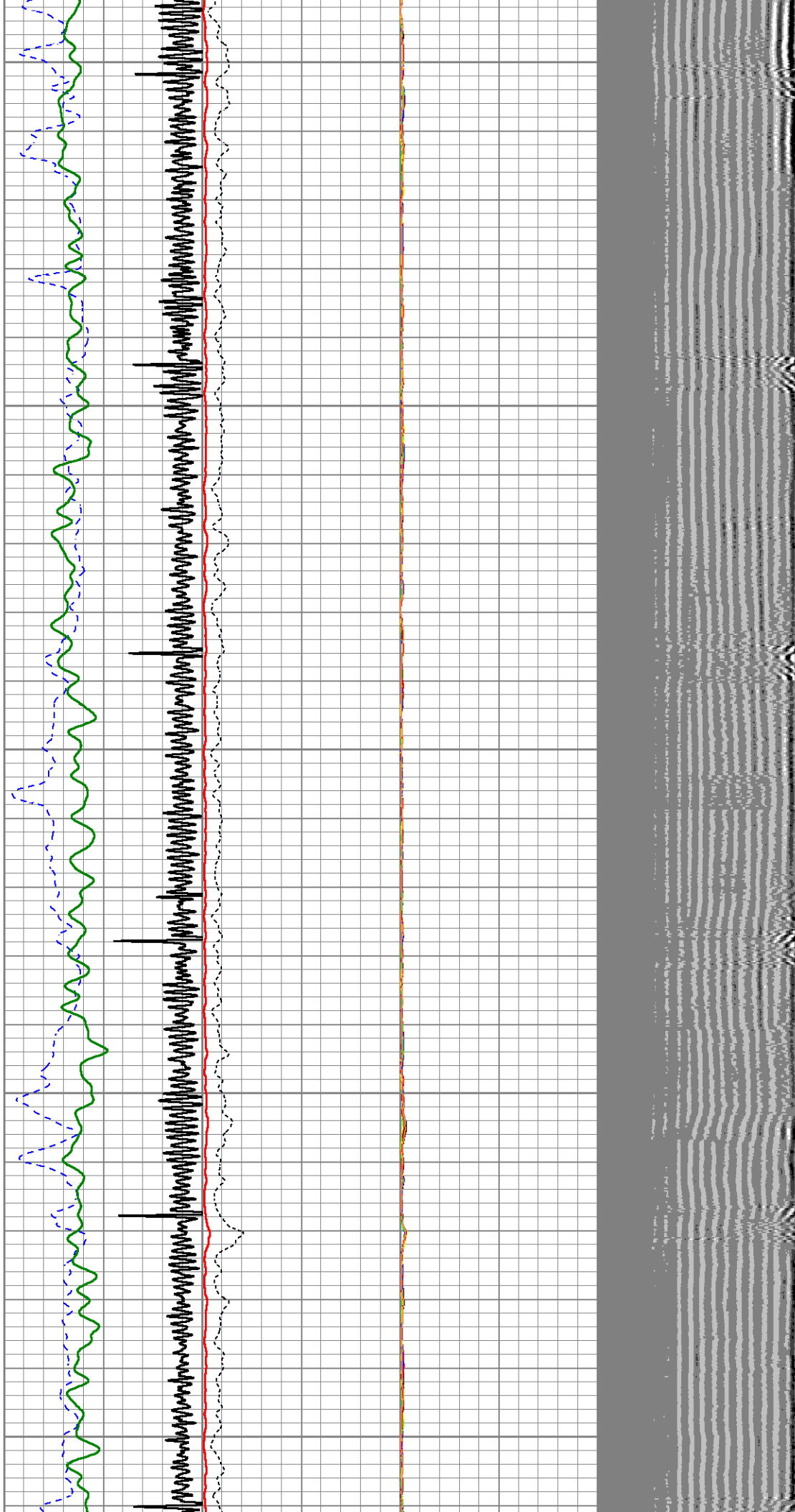
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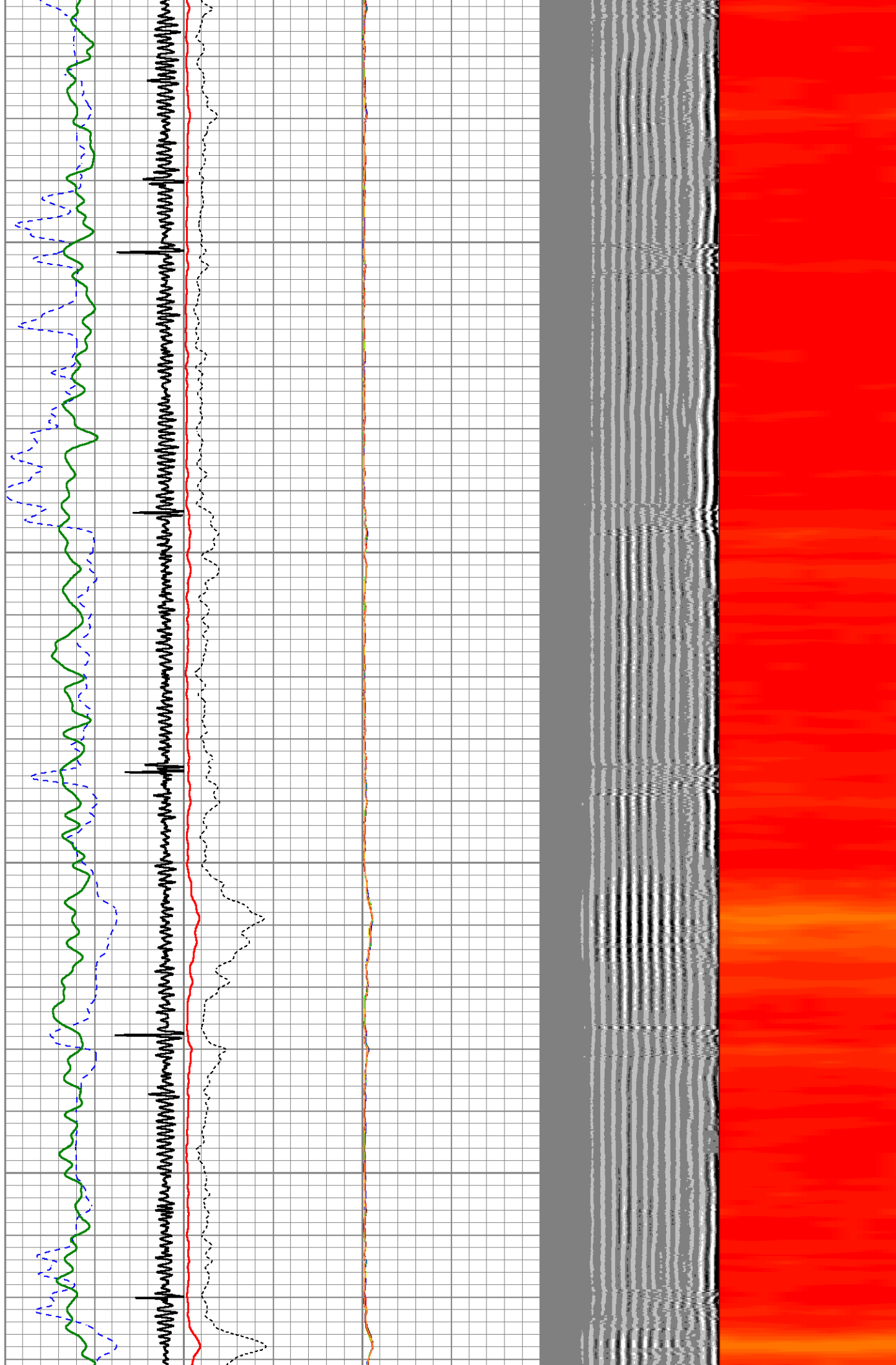


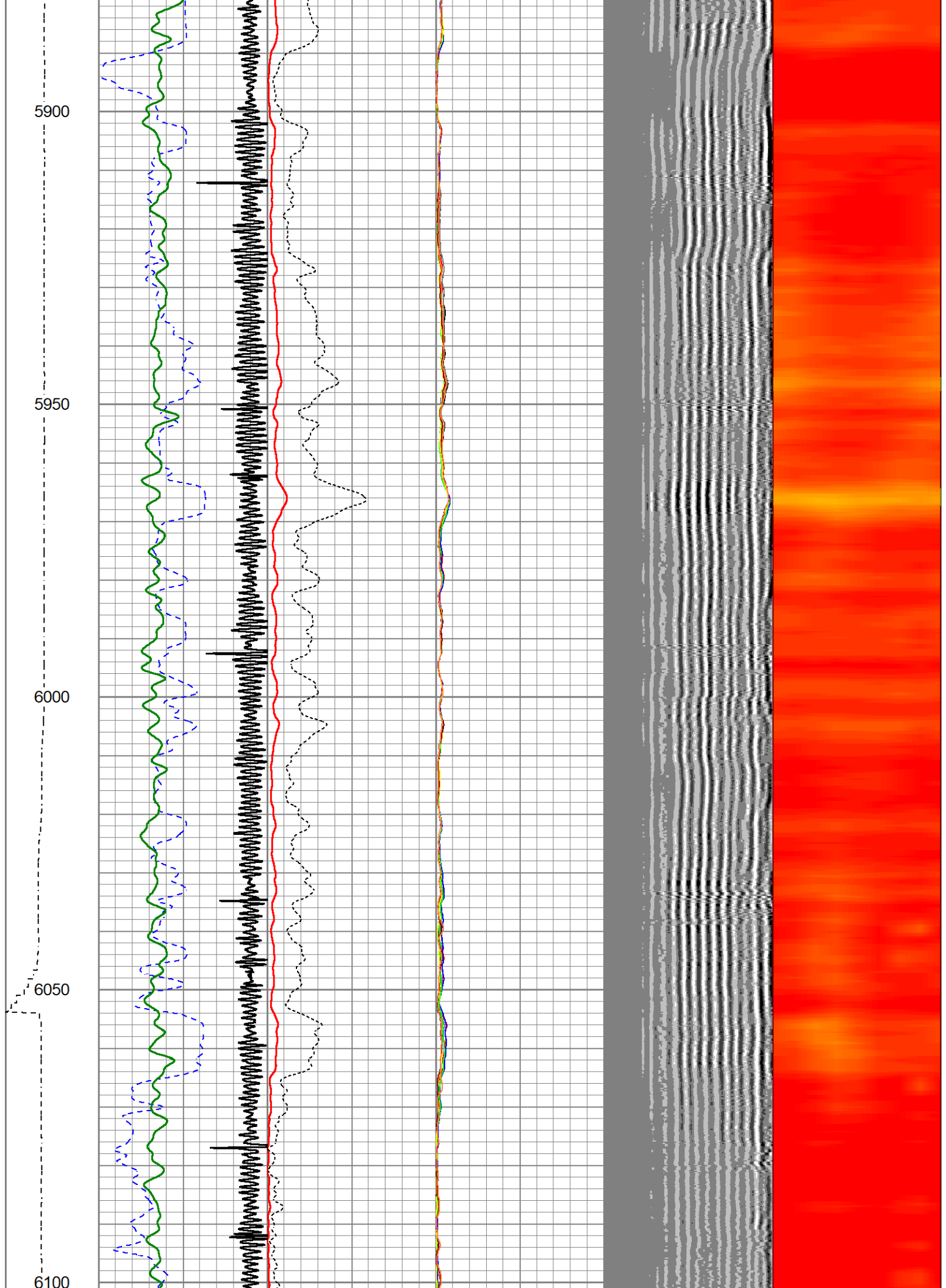
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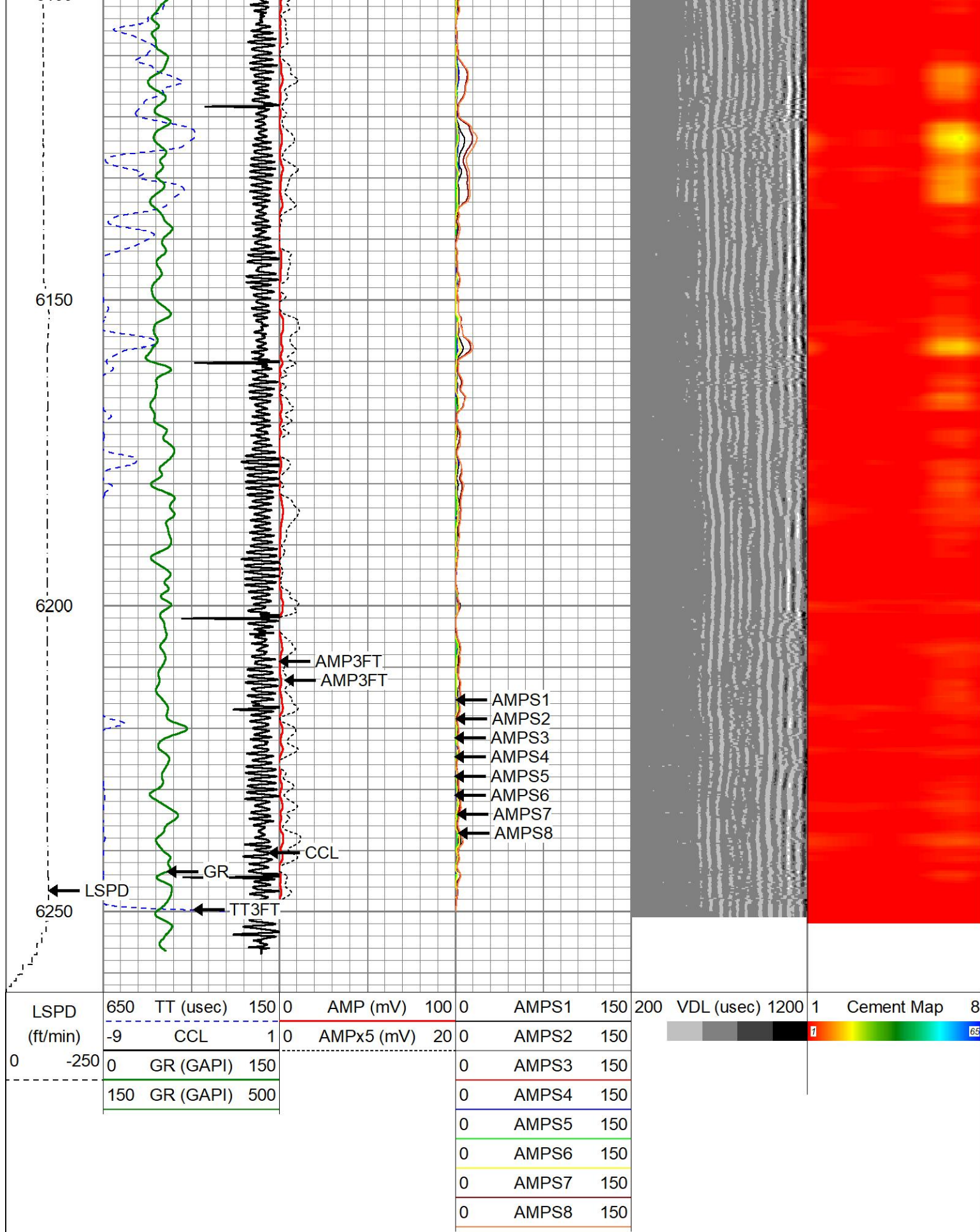
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Calibration Report

Database File 7-inch-civ-state-antelope-31-34-16hnb-rcbl.db
 Dataset Pathname 2-cbl/2-M
 Dataset Creation Wed Aug 29 16:12:14 2025

Dataset Creation Wed Aug 20 16:12:14 2025

Gamma Ray Calibration Report						
Serial Number:		27GRL10-XXXX				
Tool Model:		27GRL10				
Performed:		Mon Mar 11 13:46:24 2024				
Calibrator Value:		1.0	GAPI			
Background Reading:		0.0	cps			
Calibrator Reading:		1.0	cps			
Sensitivity:		0.5000	GAPI/cps			
Segmented Cement Bond Log Calibration Report						
Serial Number:		Greeley-Ext-Temp-7"				
Tool Model:		27SBT10				
Calibration Casing Diameter:		7.000	in			
Calibration Depth:		135.775	ft			
Master Calibration, performed Wed Aug 20 15:58:33 2025:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.016	0.972	0.250	62.165	64.785	-0.781
CAL	1.036	1.043				
5'	0.019	0.924	0.250	62.165	68.411	-1.066
SUM						
S1	0.025	0.993	0.000	62.165	64.212	-1.584
S2	0.016	0.970	0.000	62.165	65.157	-1.047
S3	0.017	0.968	0.000	62.165	65.408	-1.138
S4	0.018	0.948	0.000	62.165	66.888	-1.235
S5	0.020	0.938	0.000	62.165	67.784	-1.386
S6	0.020	0.931	0.000	62.165	68.214	-1.352
S7	0.016	0.926	0.000	62.165	68.338	-1.114
S8	0.018	0.954	0.000	62.165	66.398	-1.187
Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.036	1.043	1.000	0.000
Air Zero Calibration, performed Wed Aug 20 13:46:28 2025:						
	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



Company

CIVITAS

Well

STATE ANTELOPE 31-34-16HNB

Field

WATTENBURG

County

WELD

State

CO

Country

USA