



Cement
Bond Log
W/ Inclination

Company Pioneer Natural Resources
Well San Pablo 11-4 WDW
Field Purgatorie River
County Las Animas
State Colorado

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Well San Pablo 11-4 WDW
Field Purgatorie River
County Las Animas
State Colorado

Location: API #: 05-071-09916-0000

Other Services

SEC 4 TWP 33S RGE 67W
Permanent Datum Ground Level Elevation 7534'
Log Measured From K.B 12' AGL
Drilling Measured From K.B
Elevation
K.B. 7546'
D.F. 7545'
G.L. 7534'

Date	6-24-14
Run Number	TWO
Depth Driller	7215'
Depth Logger	6904
Bottom Logged Interval	6893
Top Log Interval	Surface
Open Hole Size	8 3/4"
Type Fluid	Water
Density / Viscosity	///
Max. Recorded Temp.	260 DegF
Estimated Cement Top	///
Time Well Ready	R.O.A
Time Logger on Bottom	11:30
Equipment Number	T440
Location	Hays, KS
Recorded By	Tyler Patterson
Witnessed By	Dave Martinez

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record							
Surface String	Size		Wgt/Ft		Top		Bottom
Prot. String	13 3/8				0		683
Production String	9 5/8						
Liner	7'		23LB		0		6915

>>> Fold Here >>>

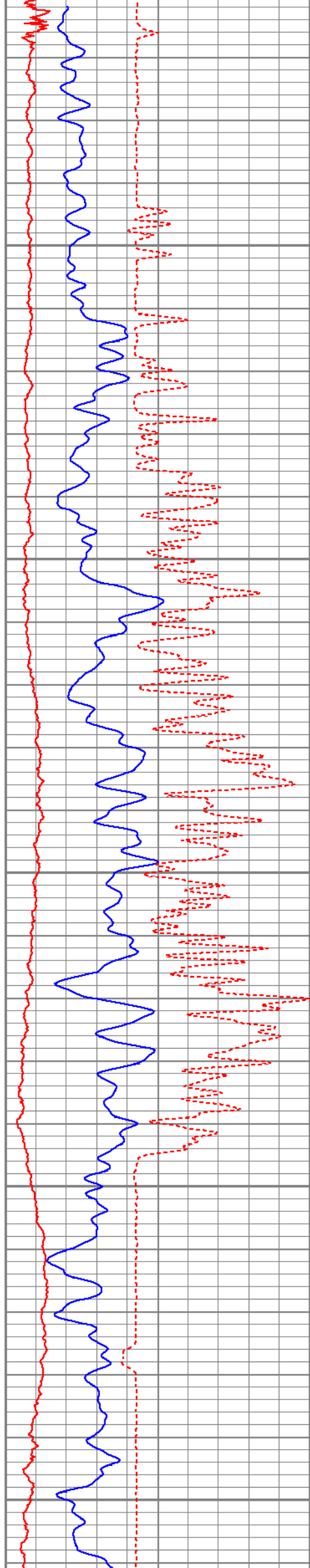
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 under 700-1000 PSI
metal shaving rings found around CCL

Database File sanpablo11-4wd5cbl.db
Dataset Pathname pass3
Presentation Format cblsec
Dataset Creation Tue Jun 24 14:26:40 2014
Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	18	CCL	-2	200	VDL	1200
150	GR (GAPI)	300	0	AMP3 (mV)	100			
400	TT3 (usec)	200						
0	DEVI (deg)	10						



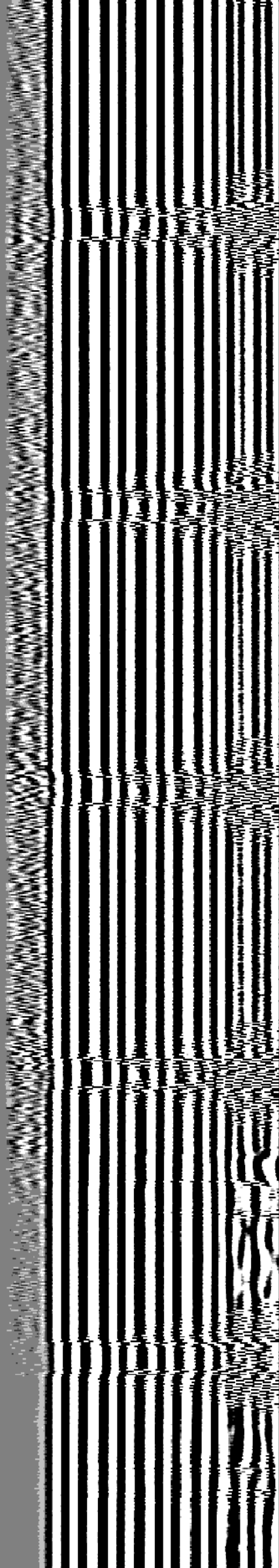
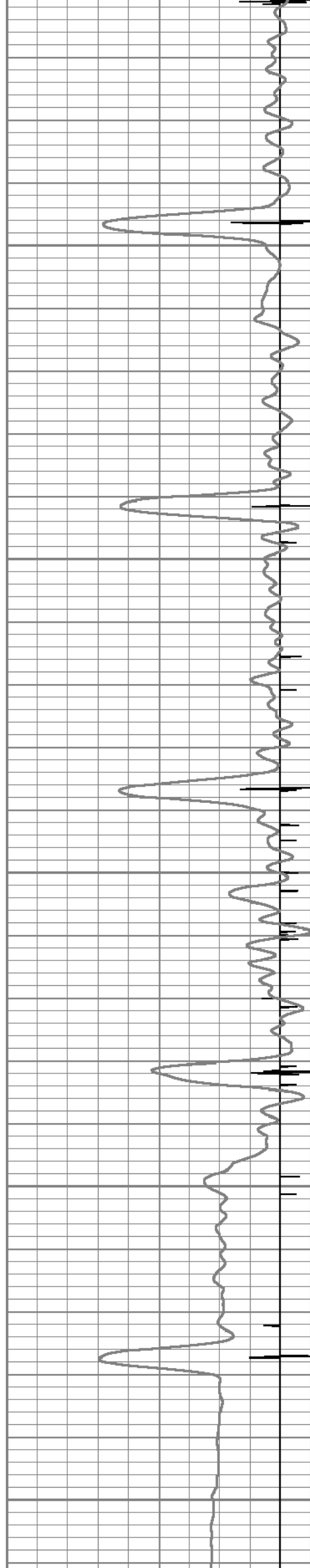
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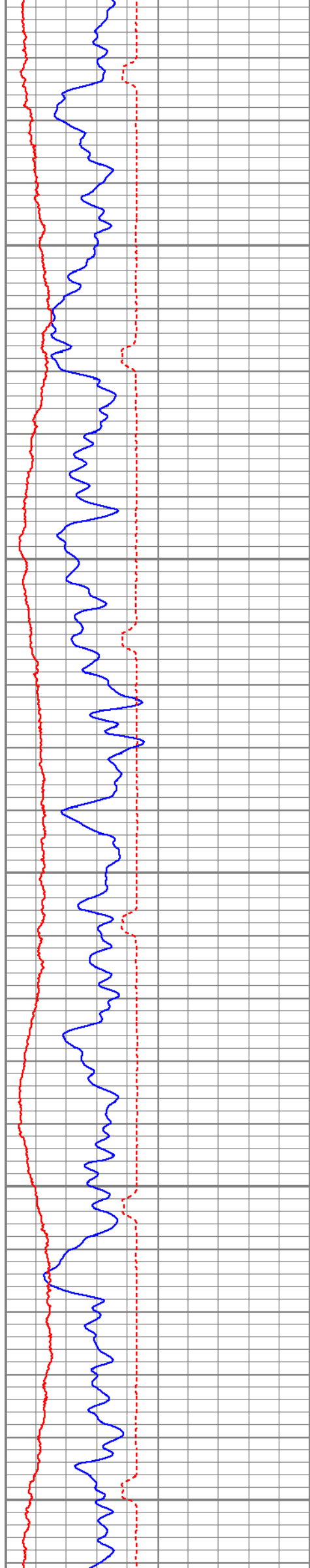
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200

250





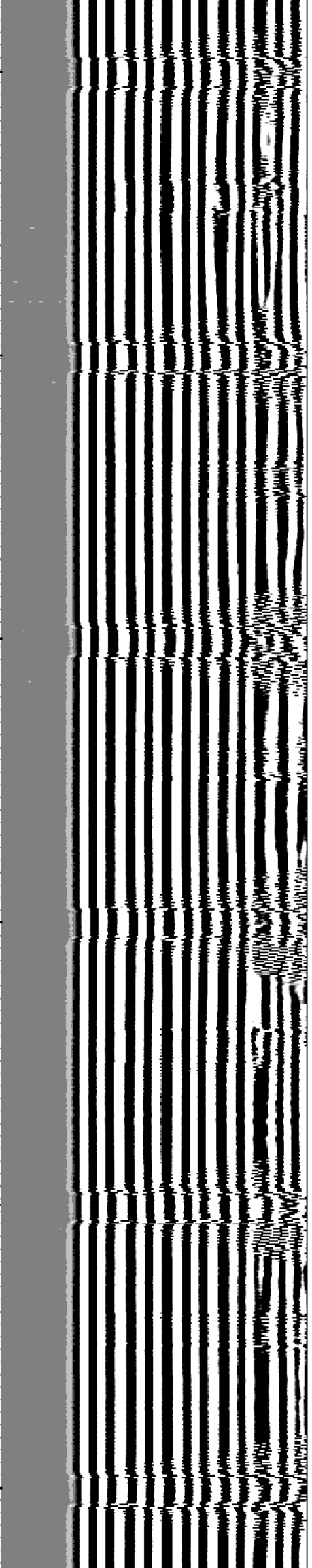
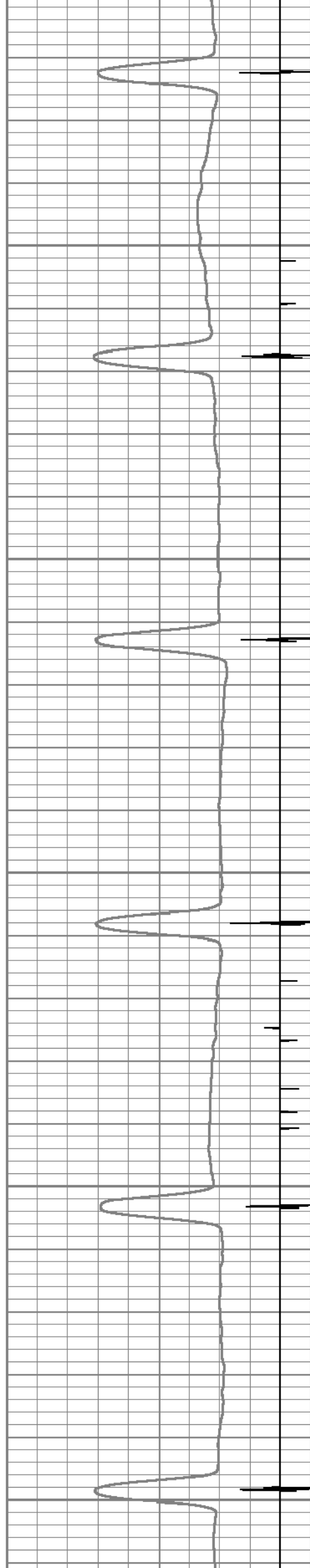
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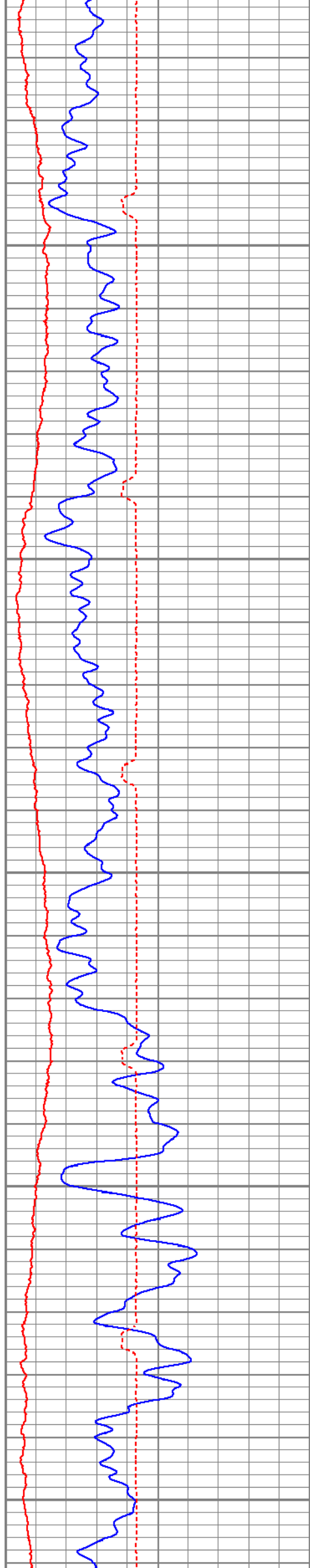
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400

450

500





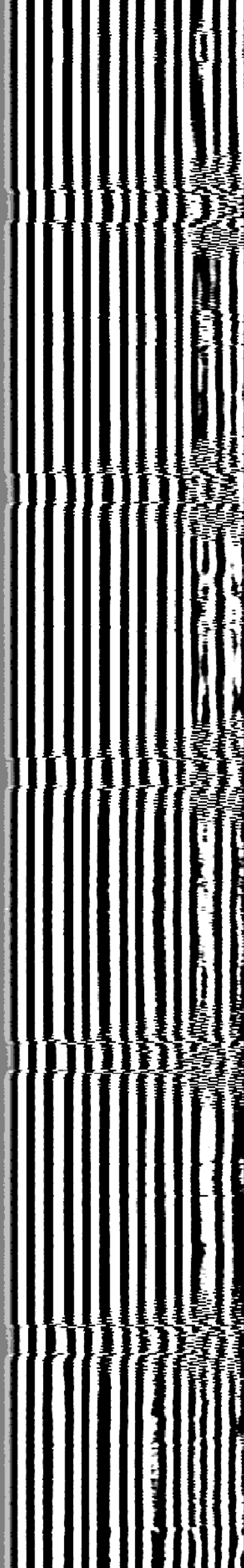
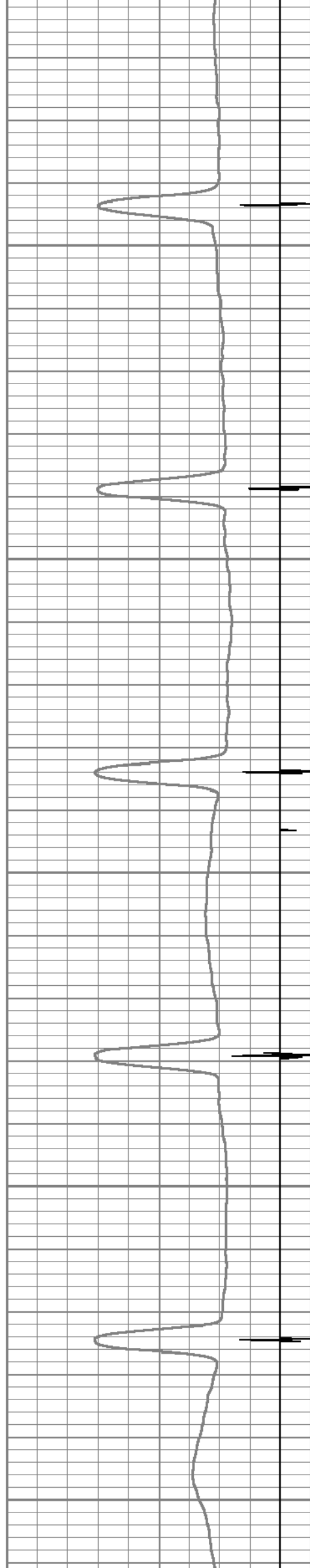
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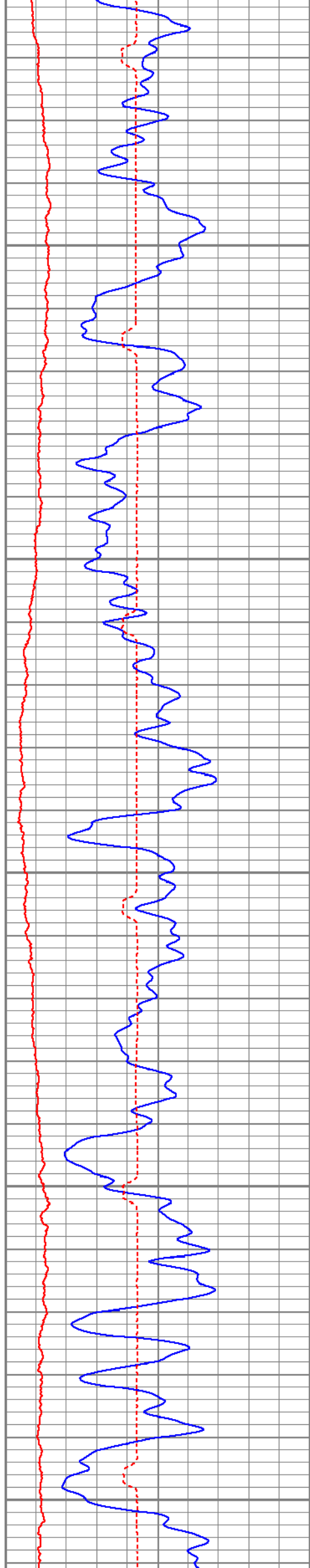
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700

750





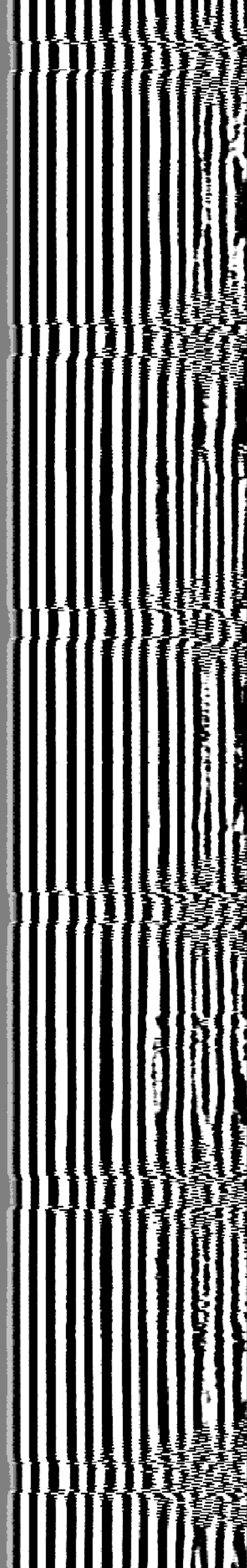
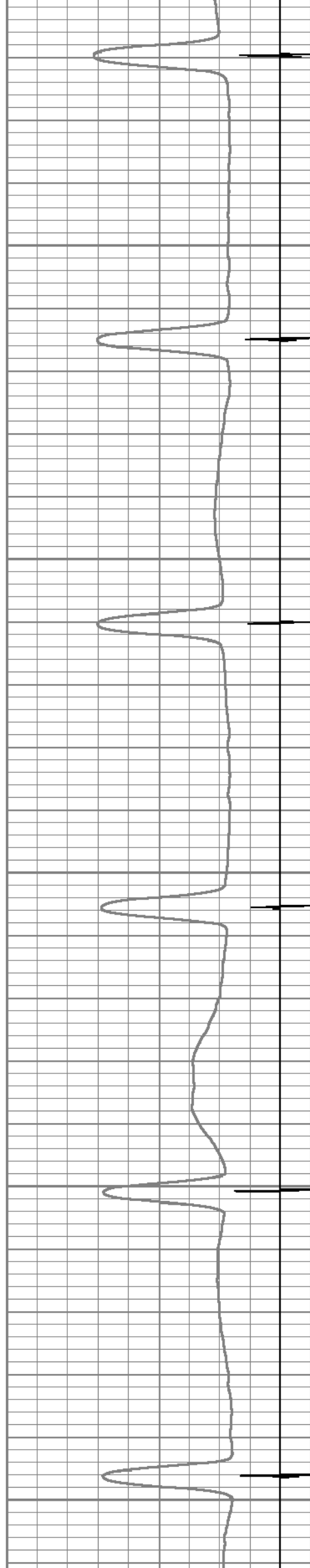
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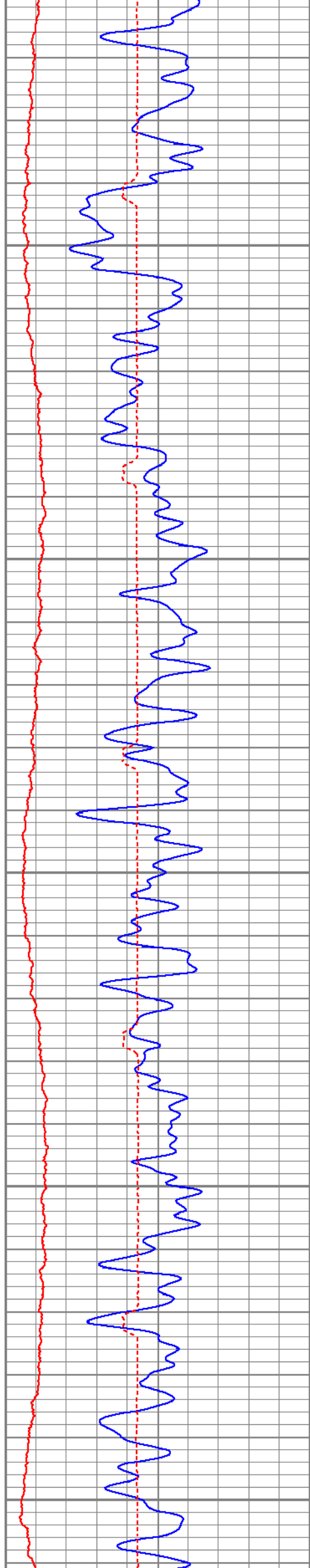
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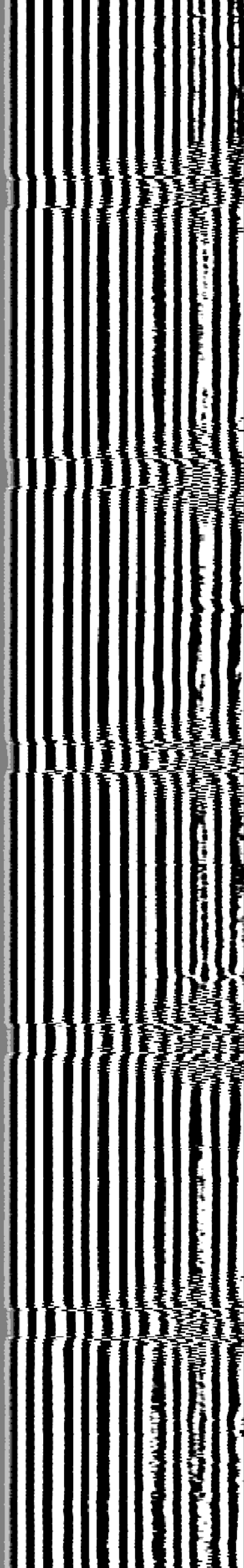
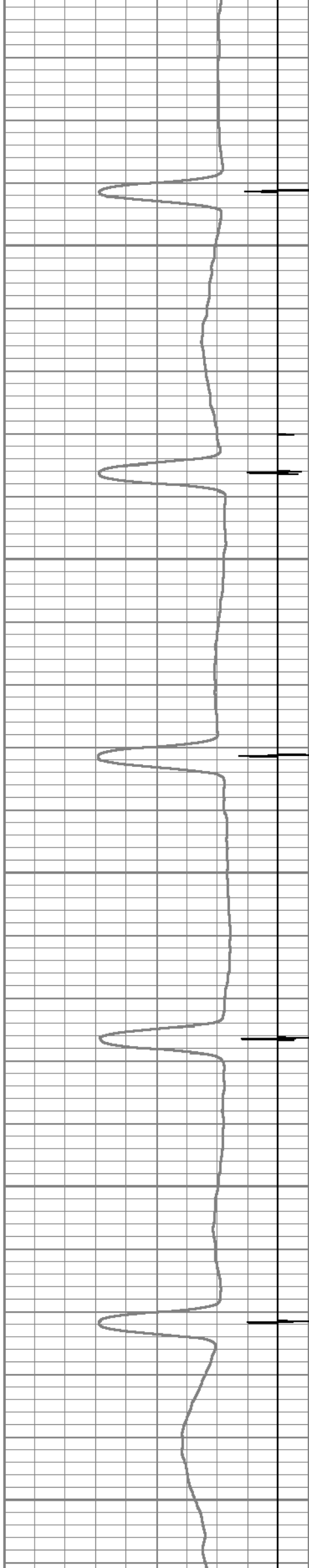
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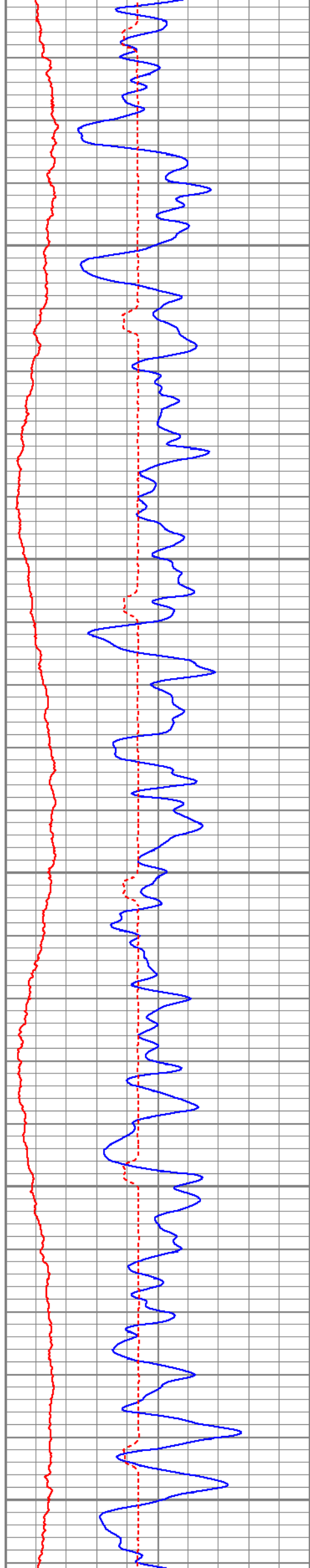
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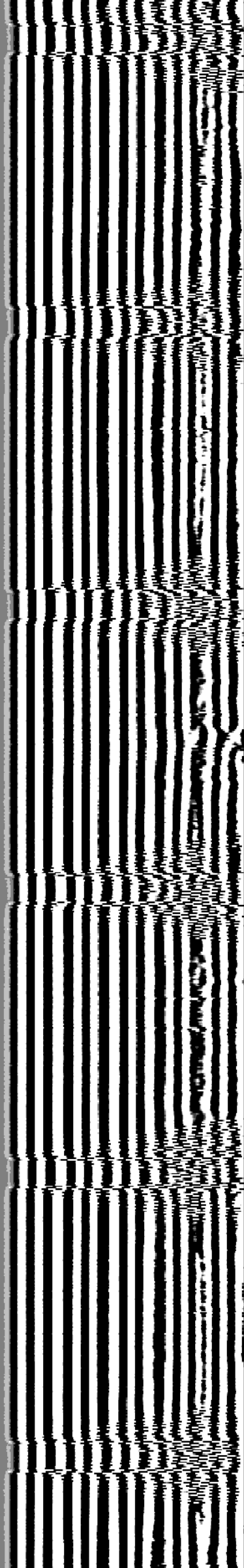
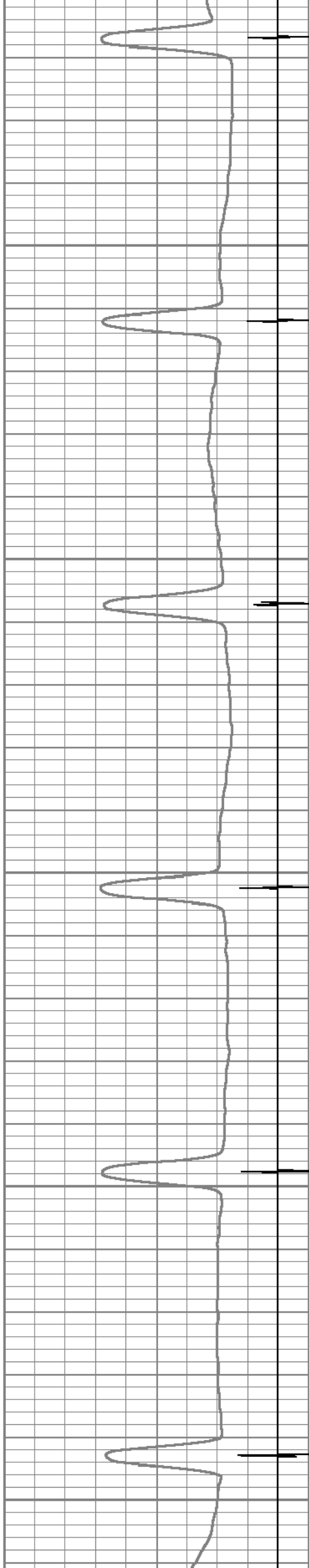
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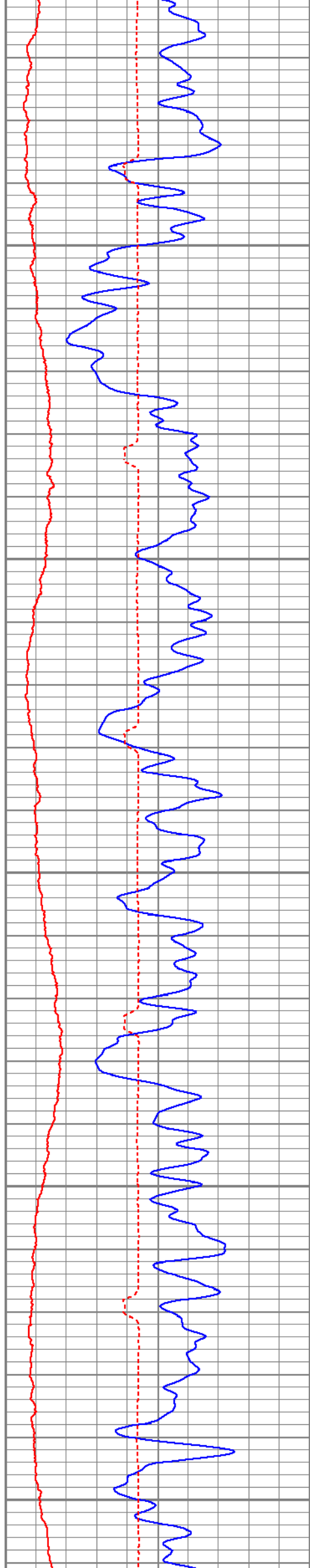
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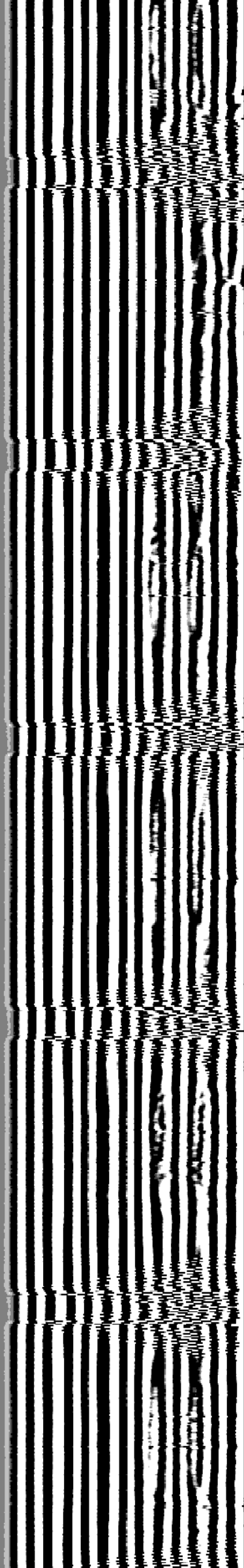
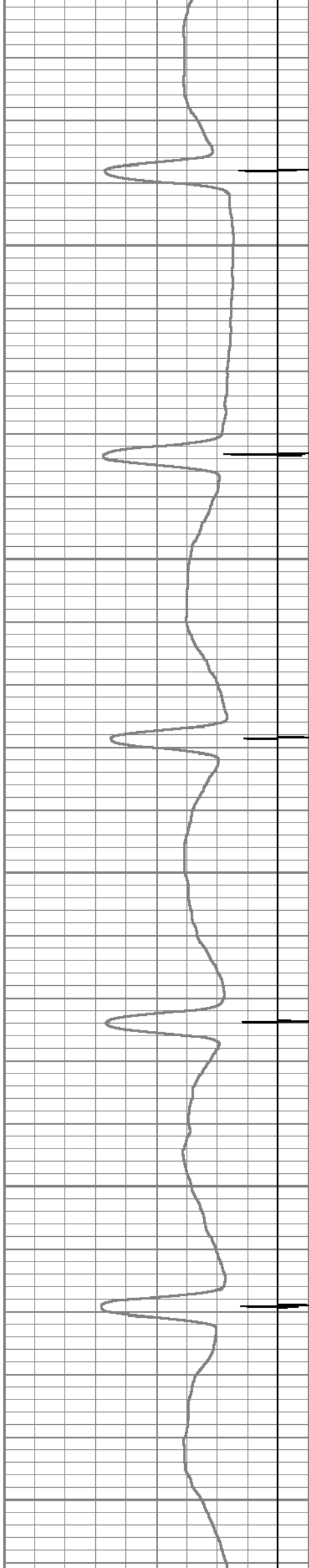
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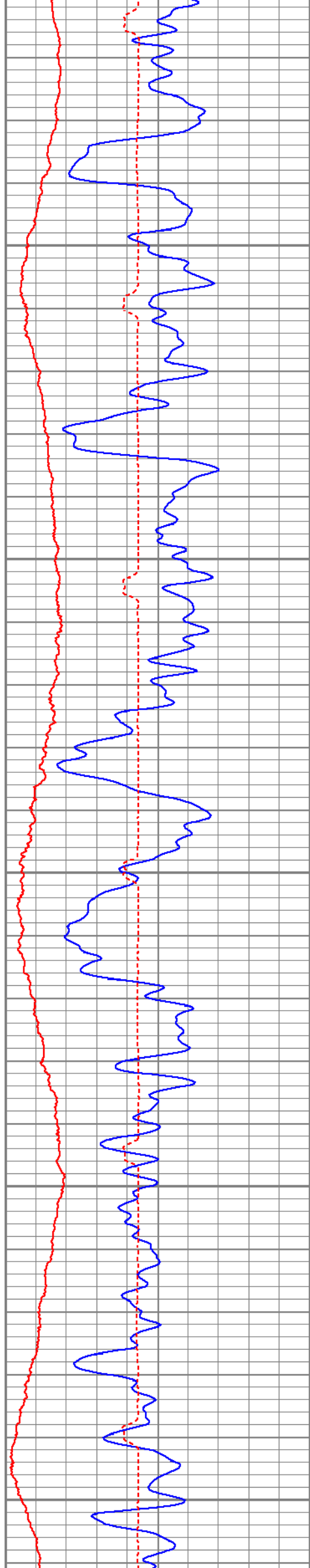
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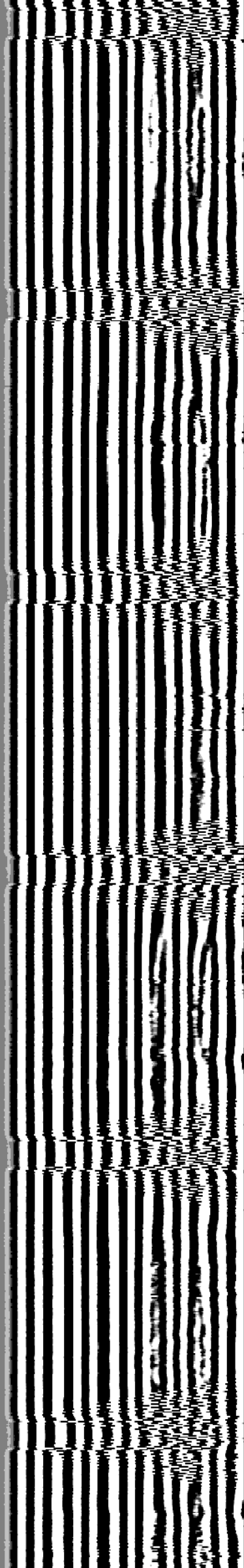
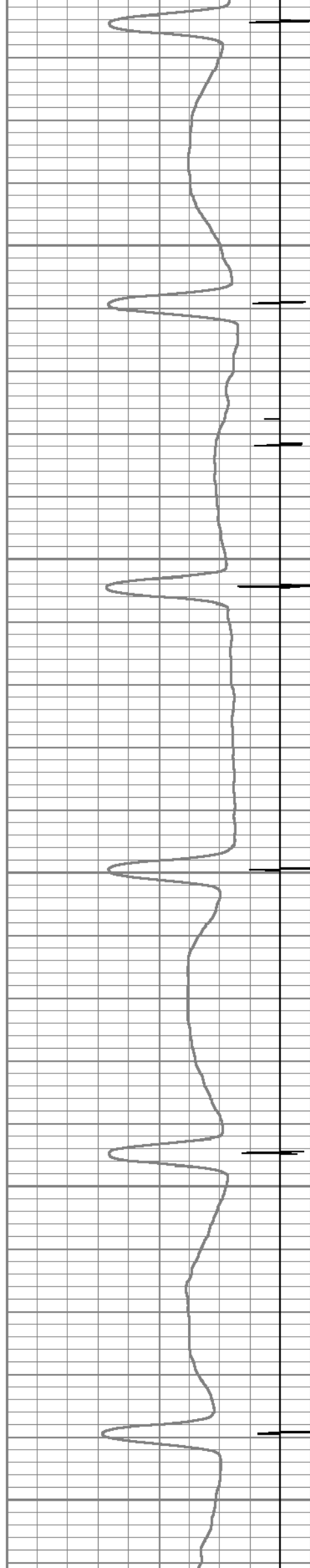
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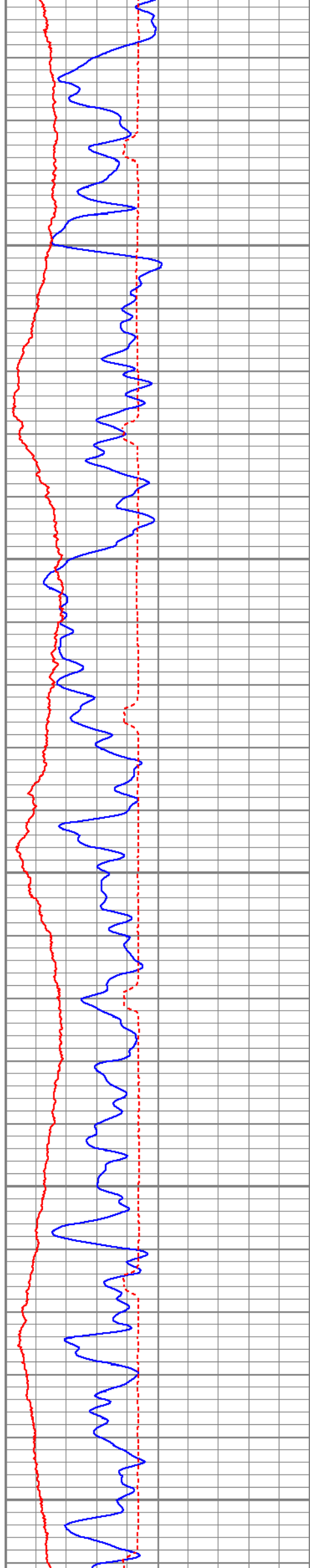
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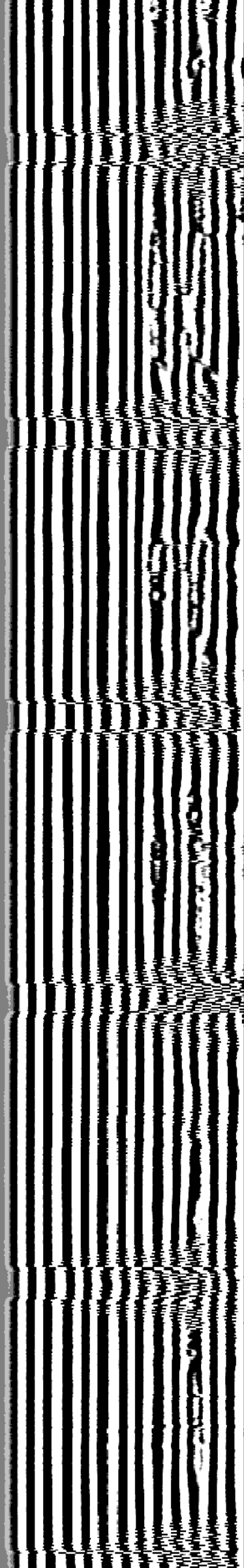
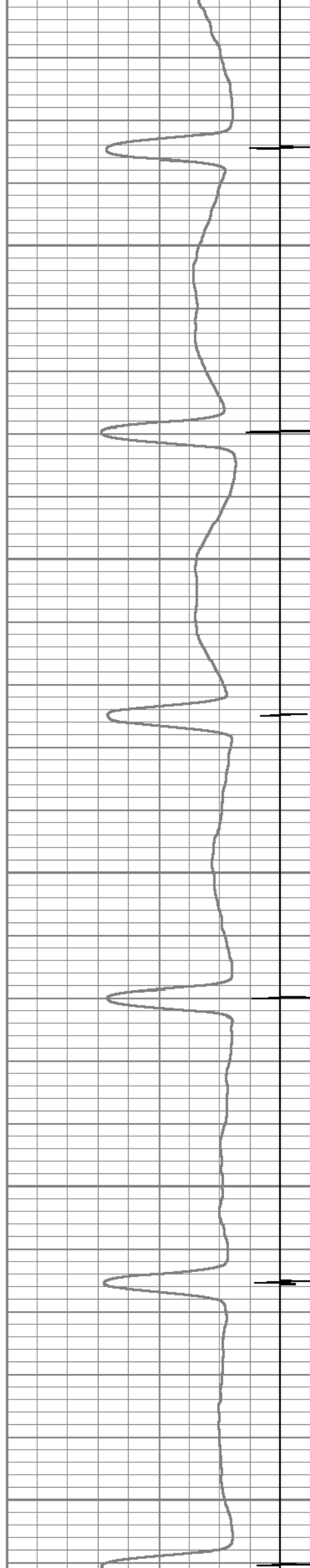
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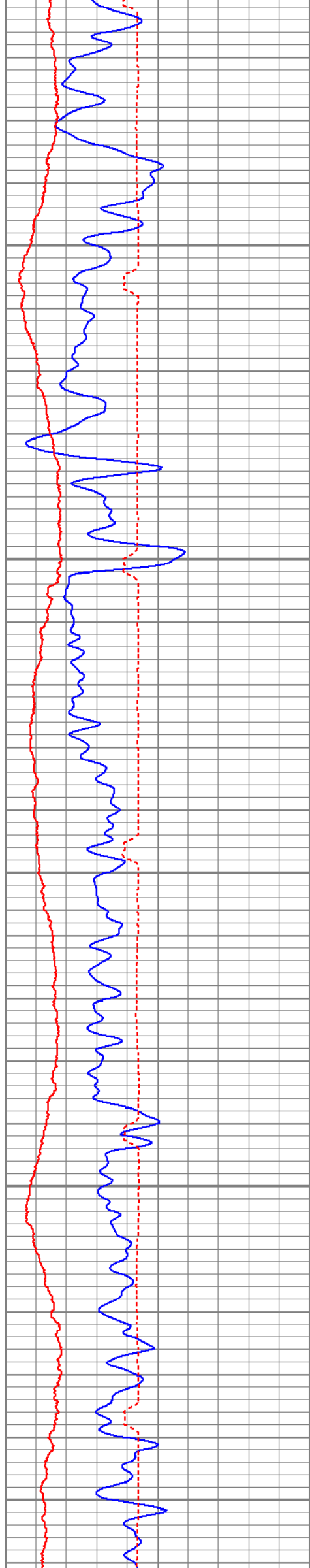
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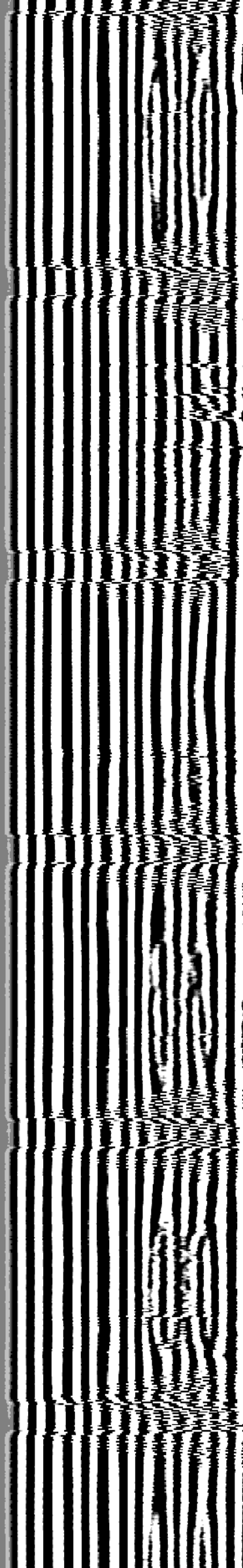
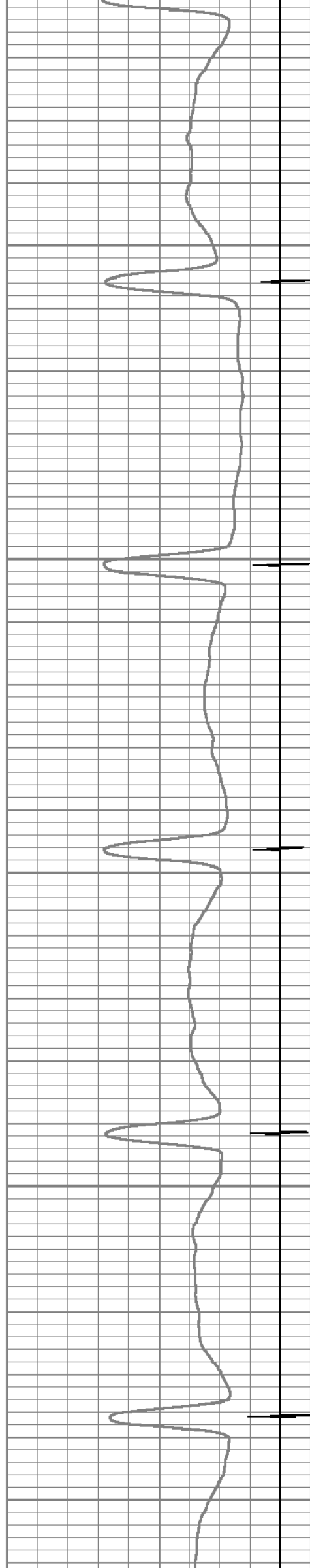
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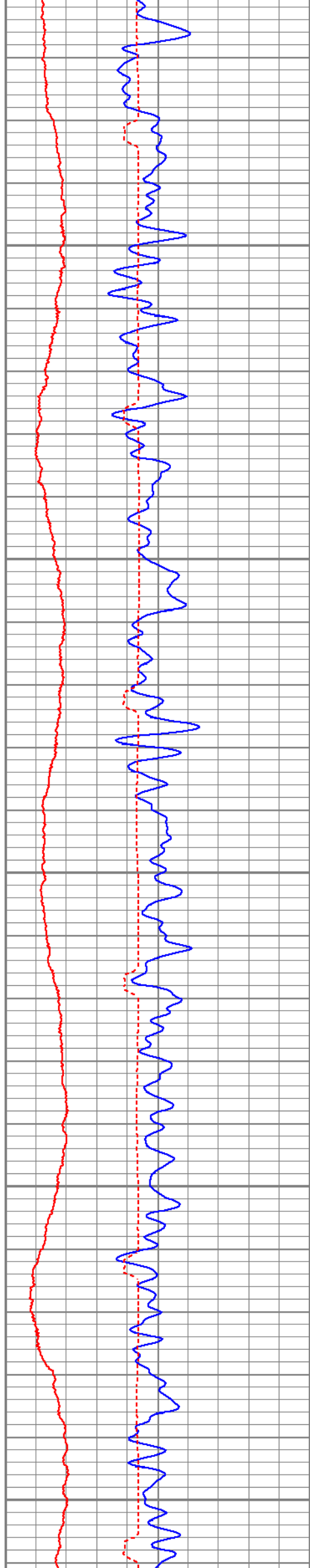
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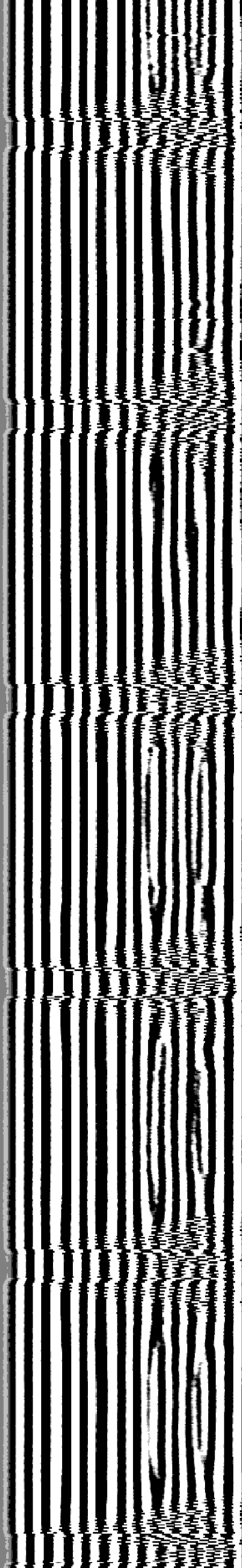
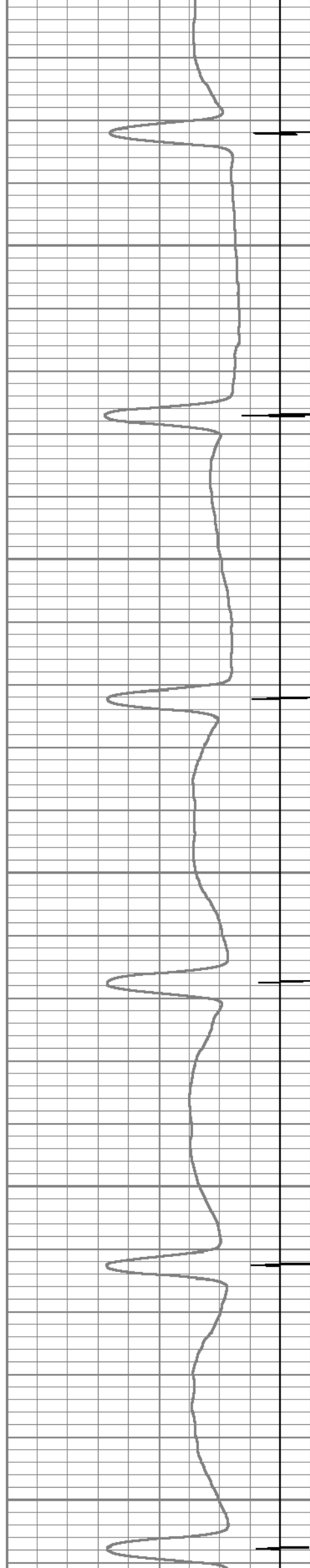
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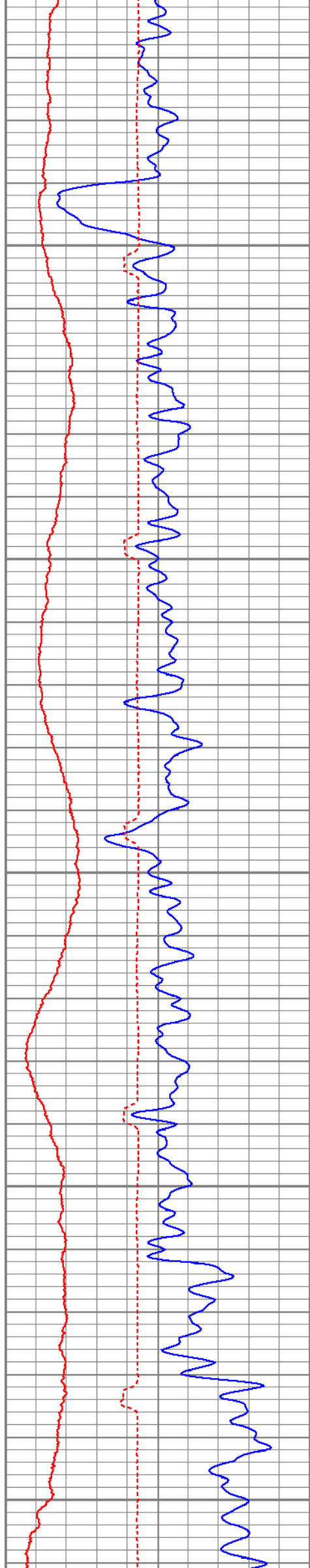
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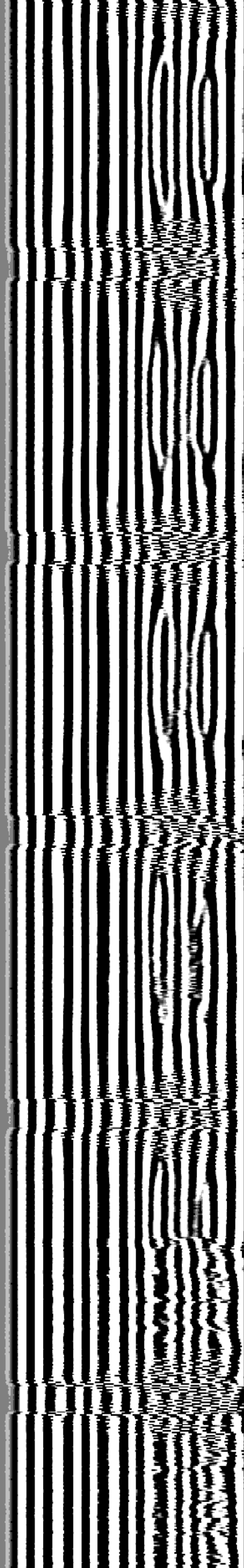
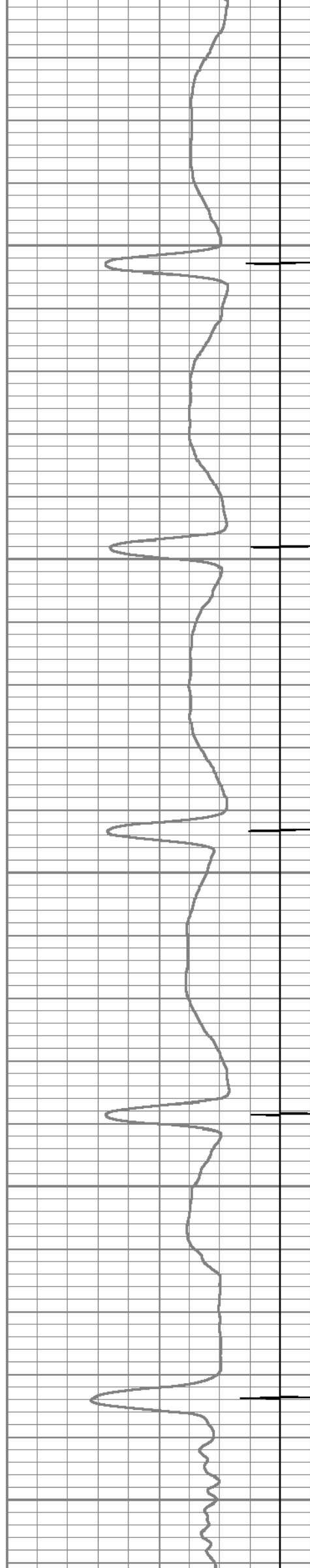
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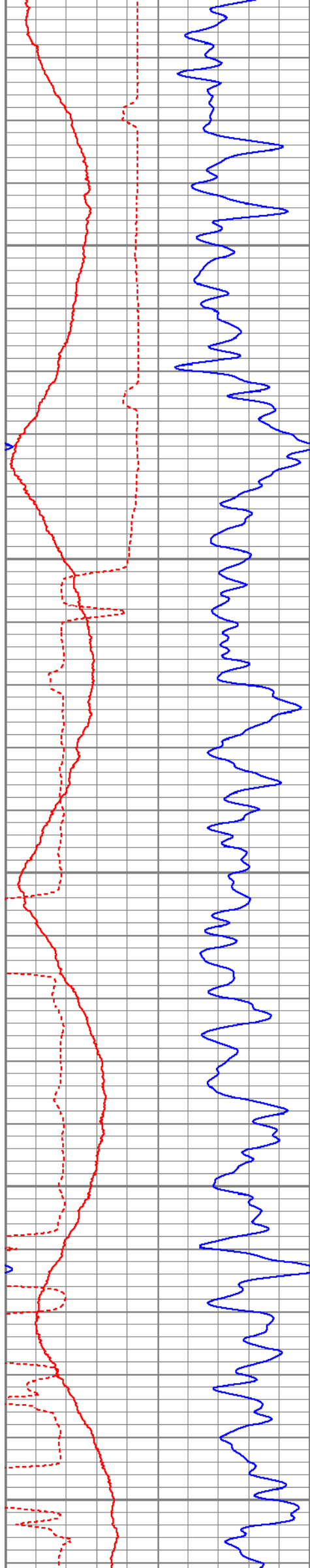
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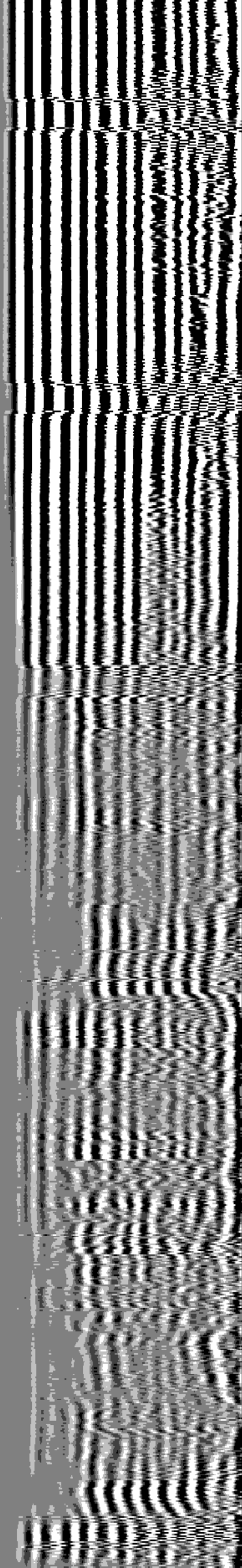
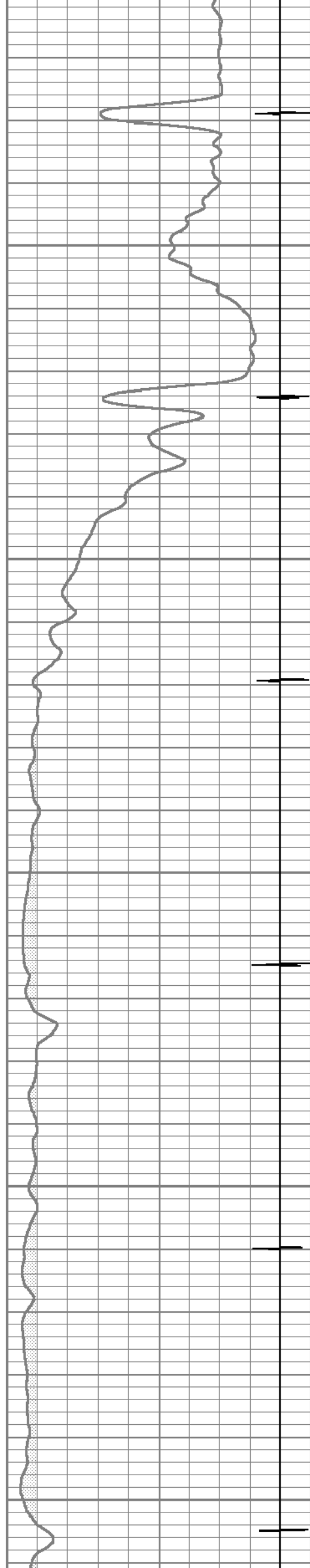
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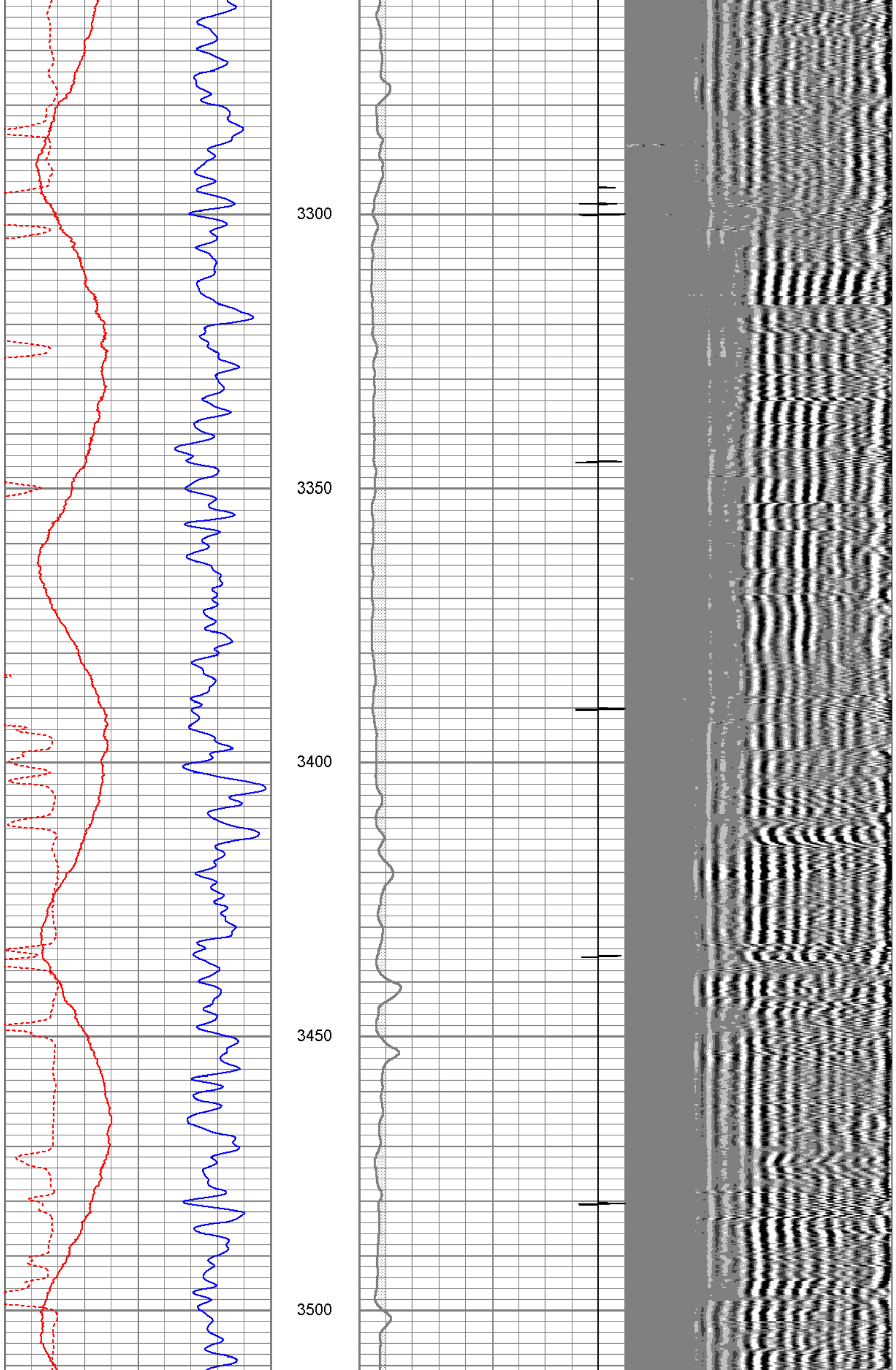
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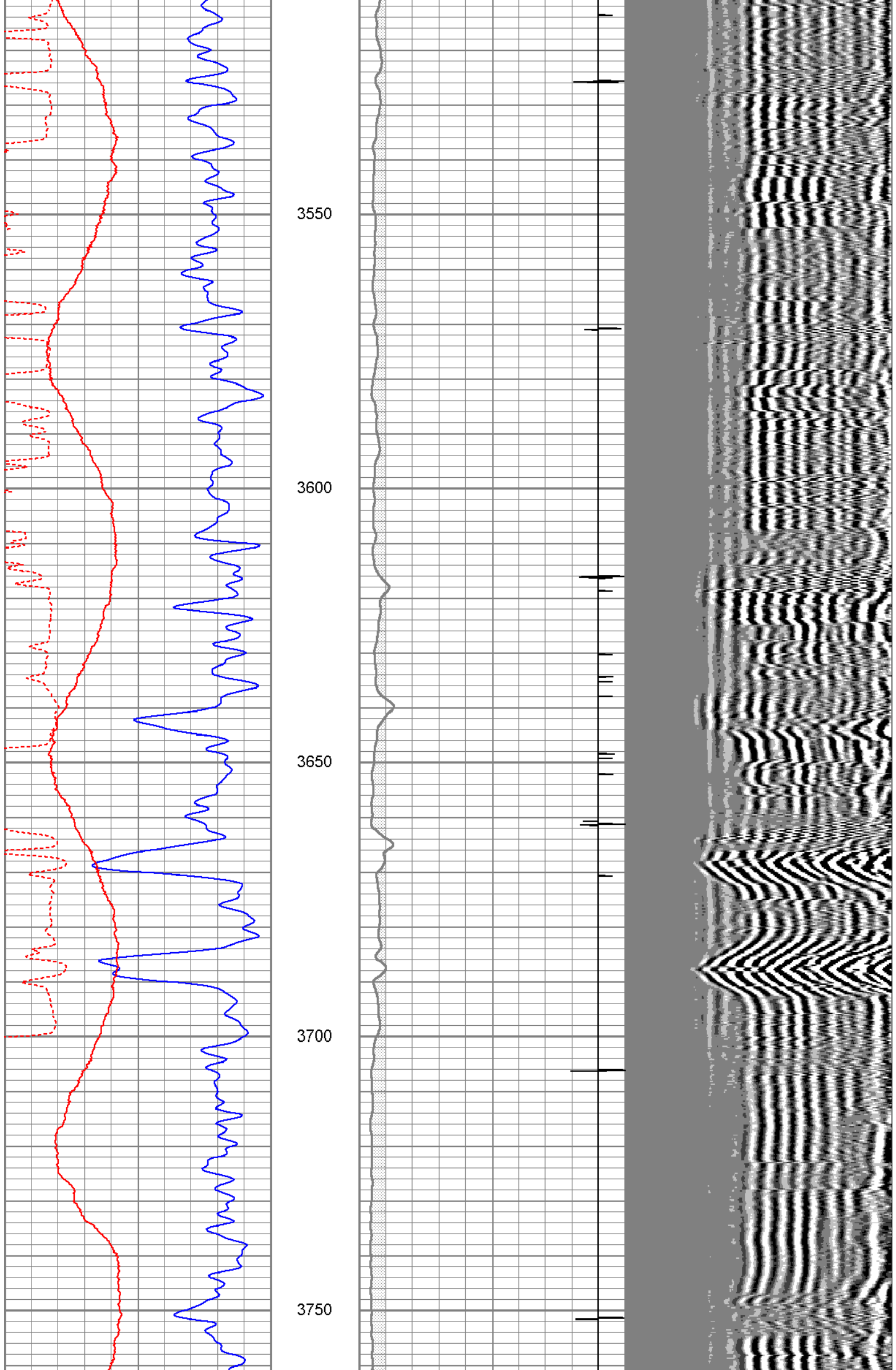
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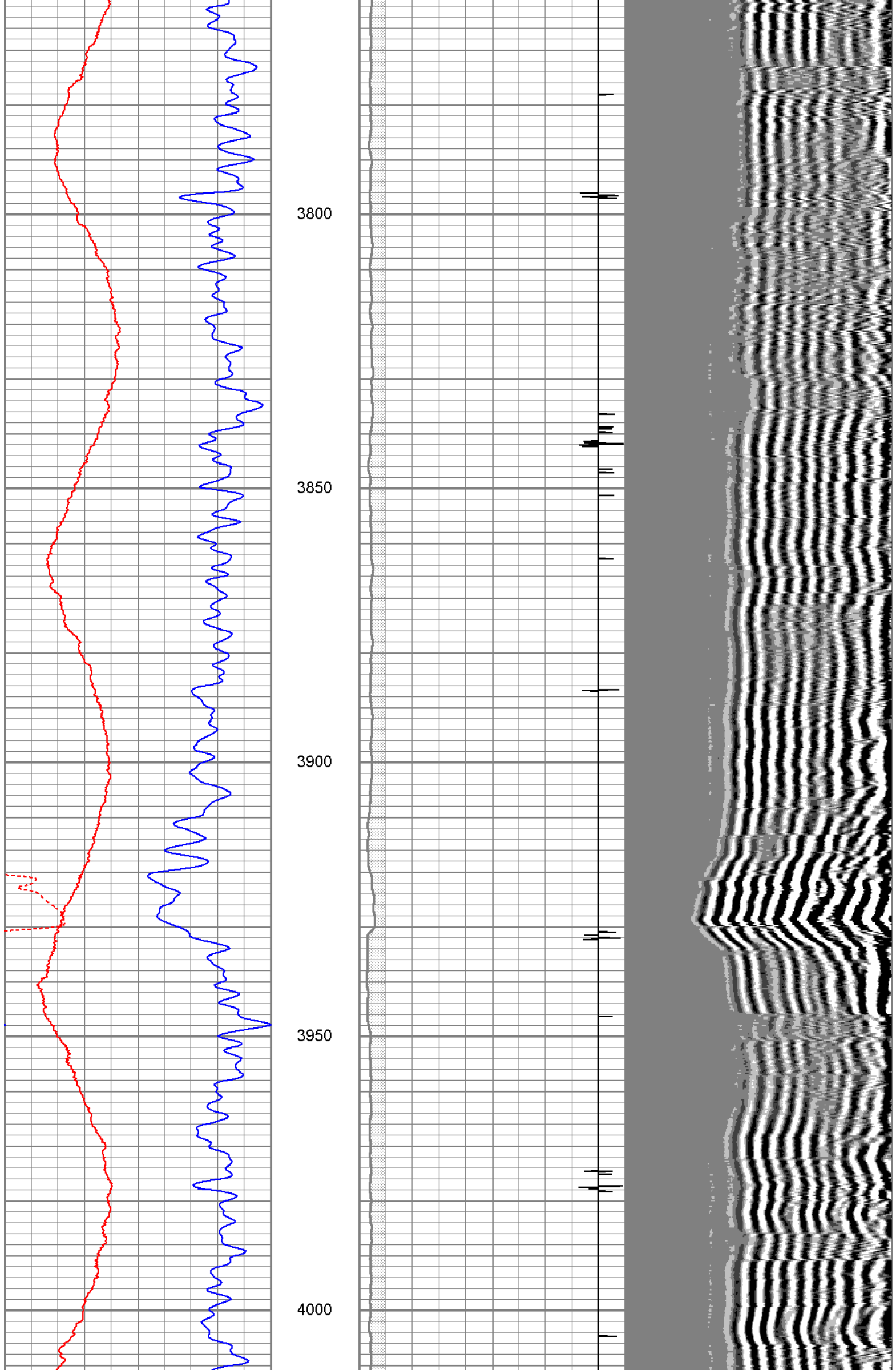
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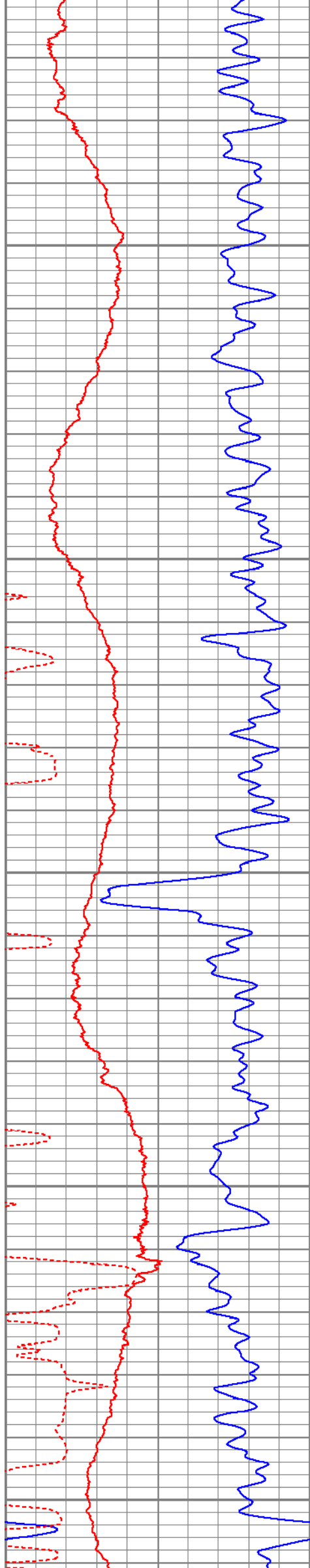
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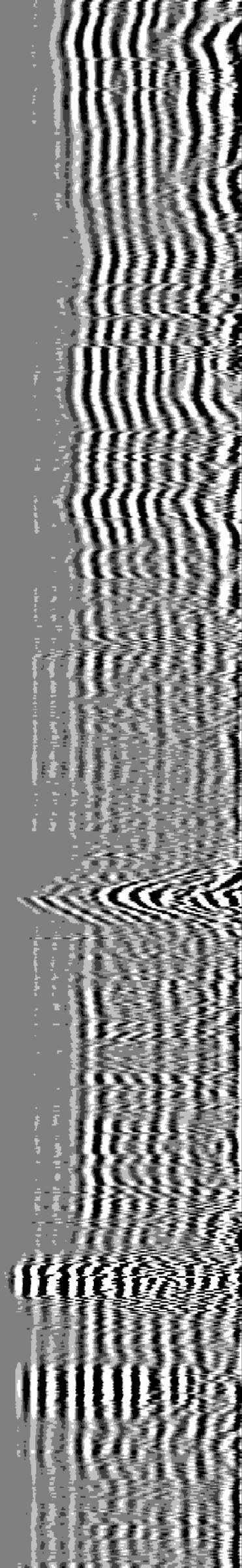
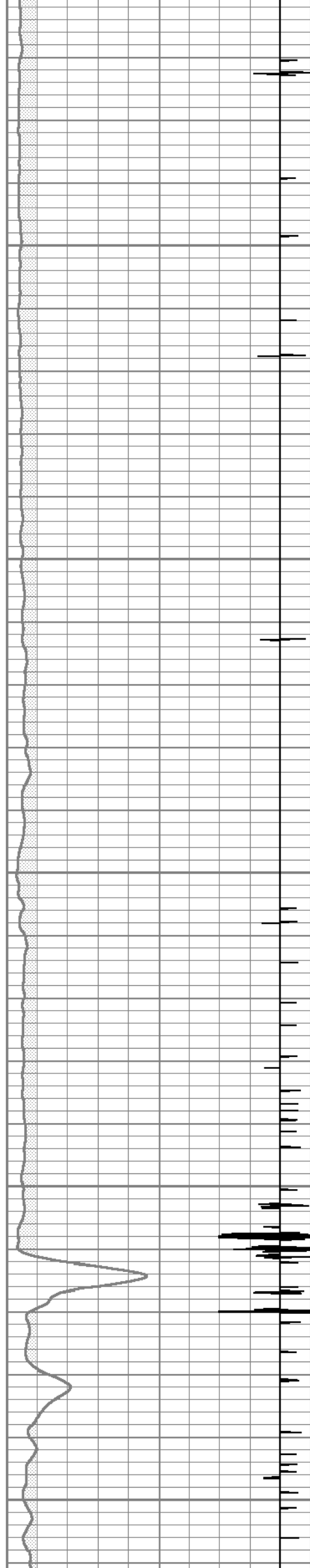
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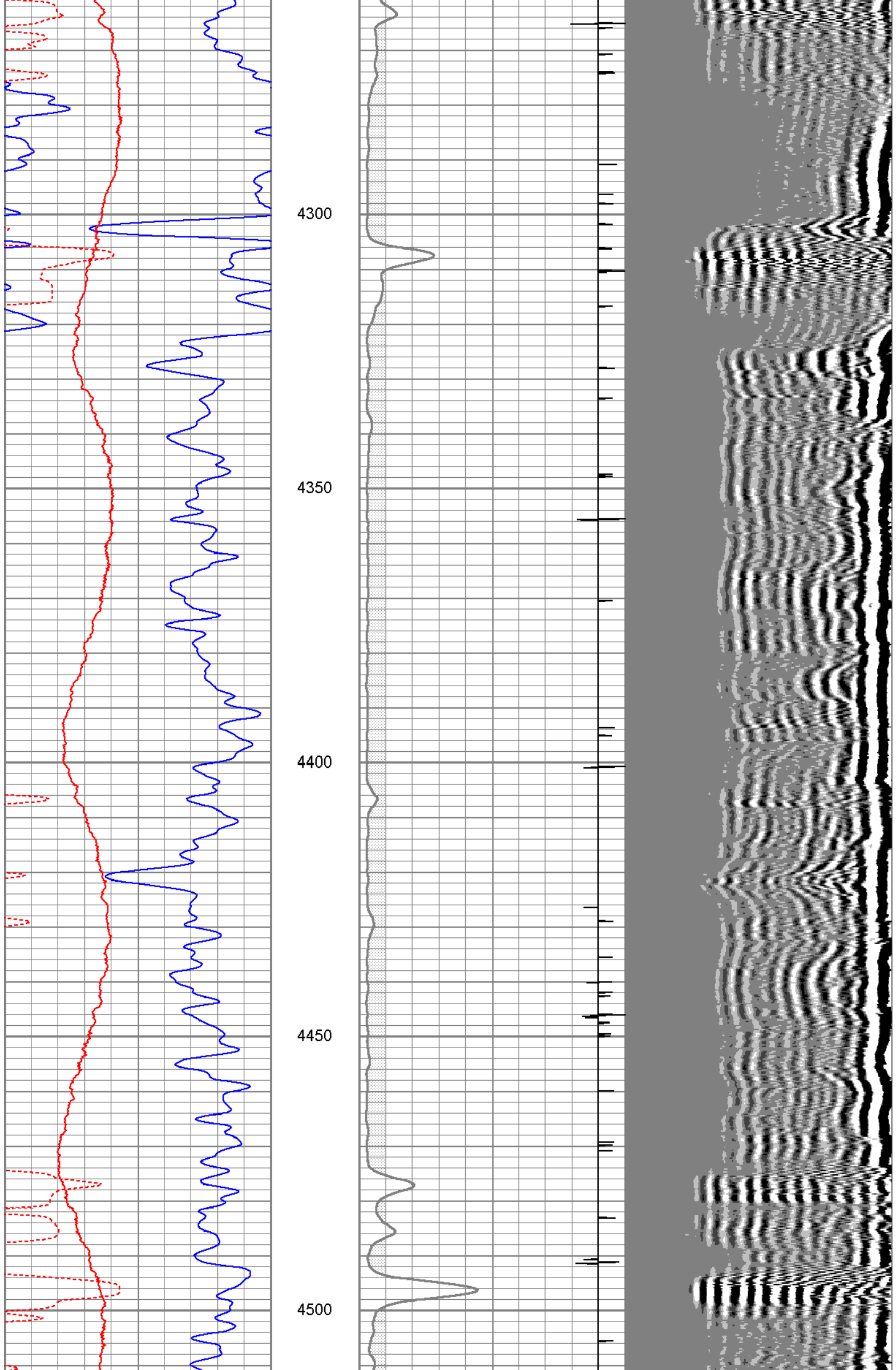
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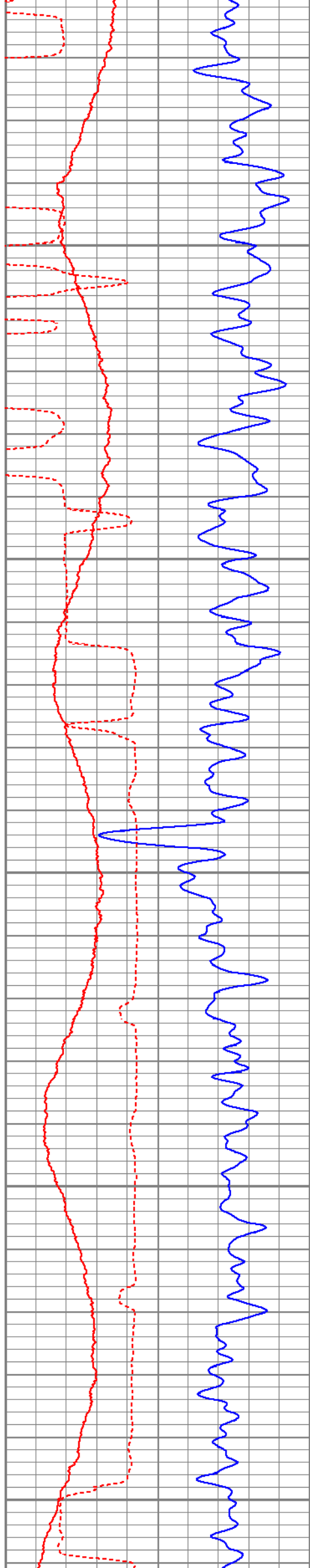
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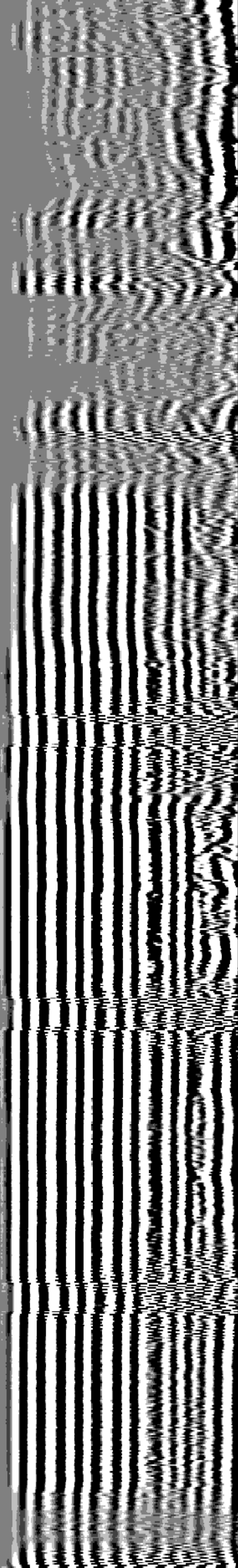
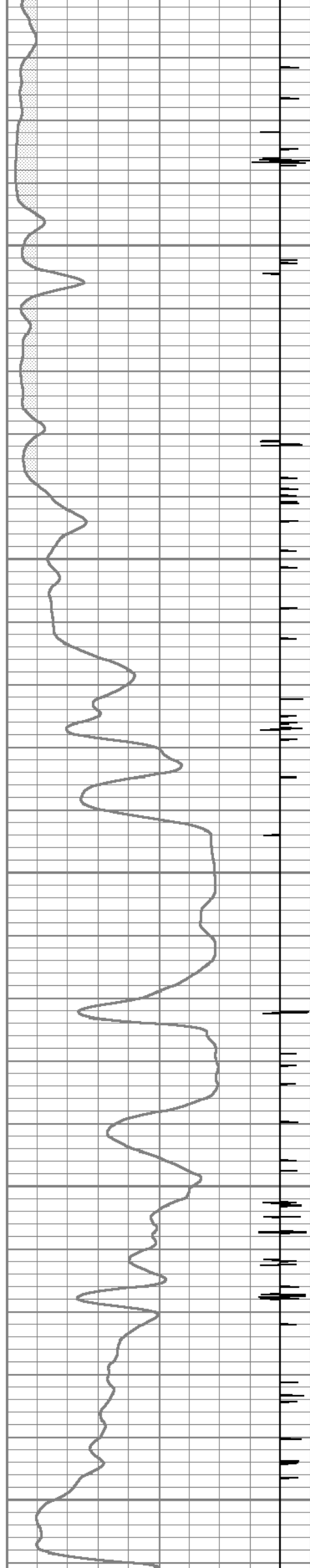
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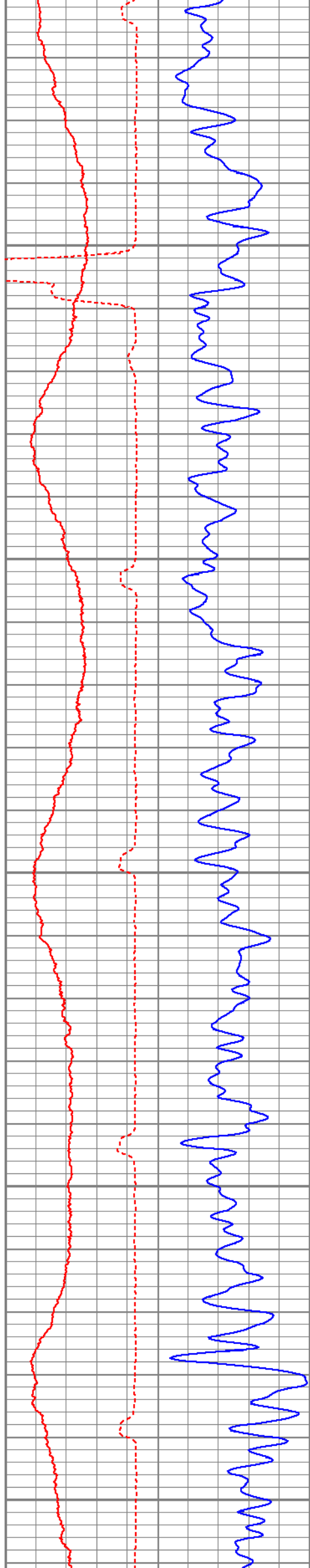
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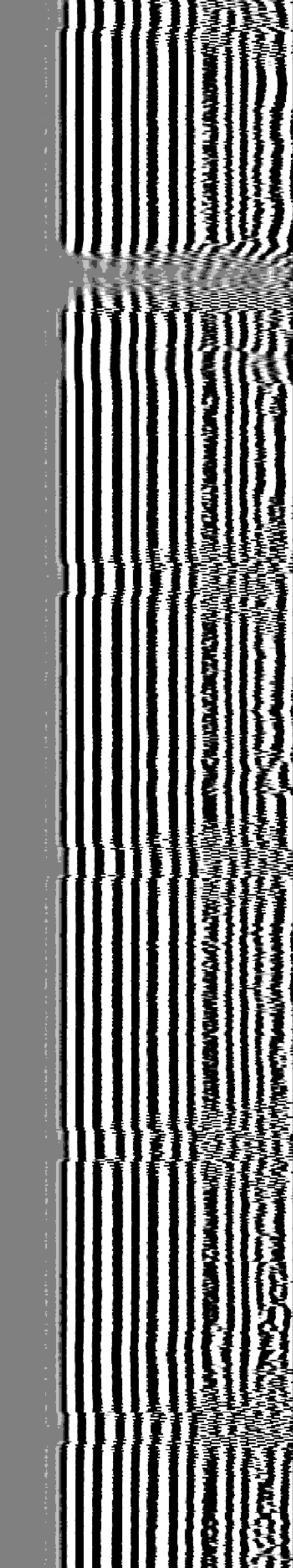
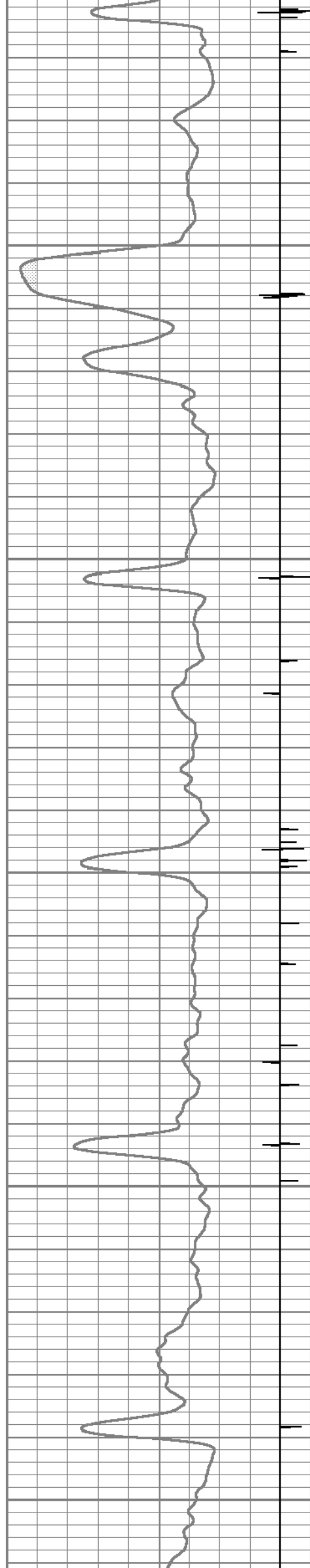
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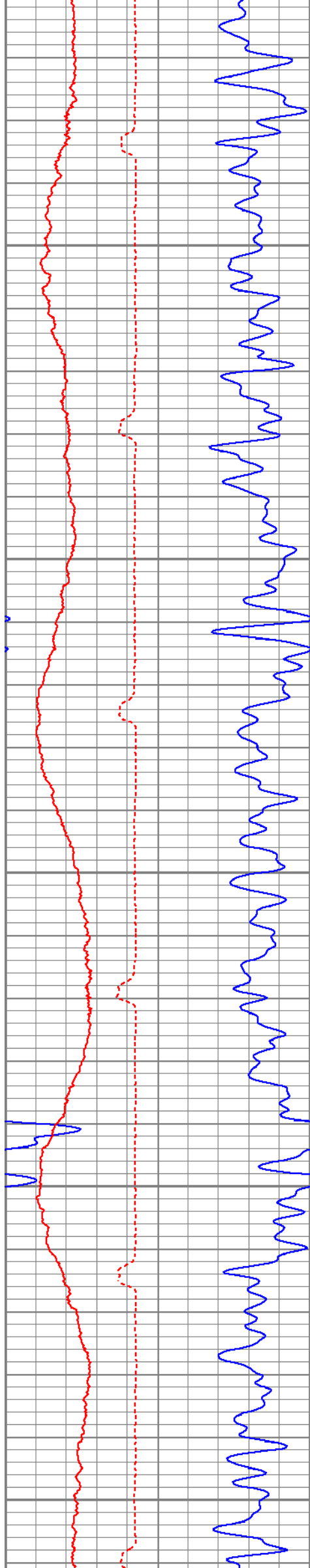
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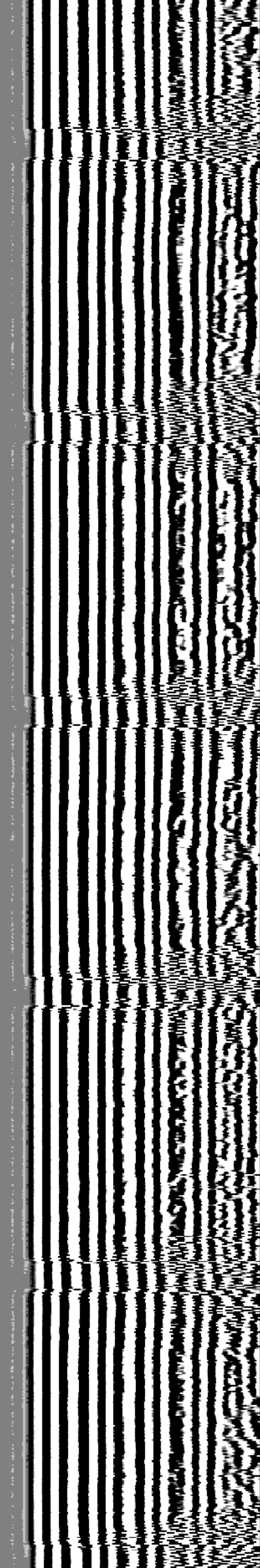
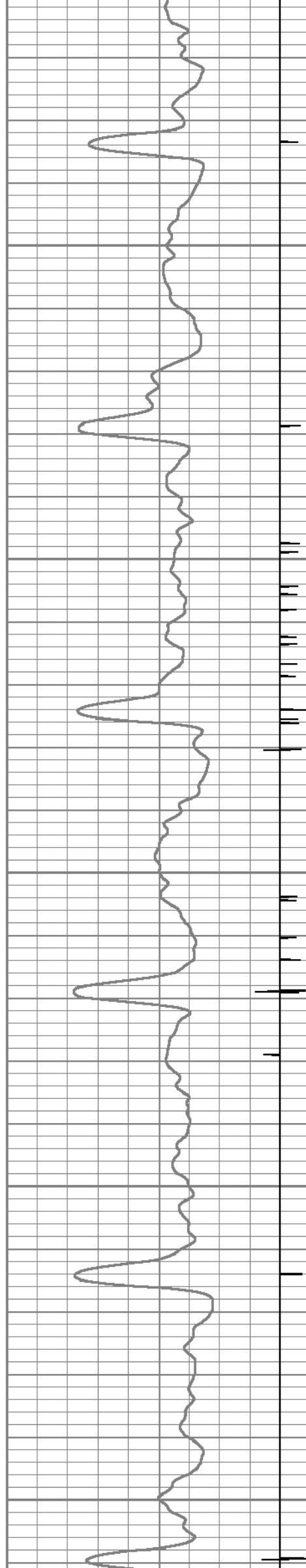
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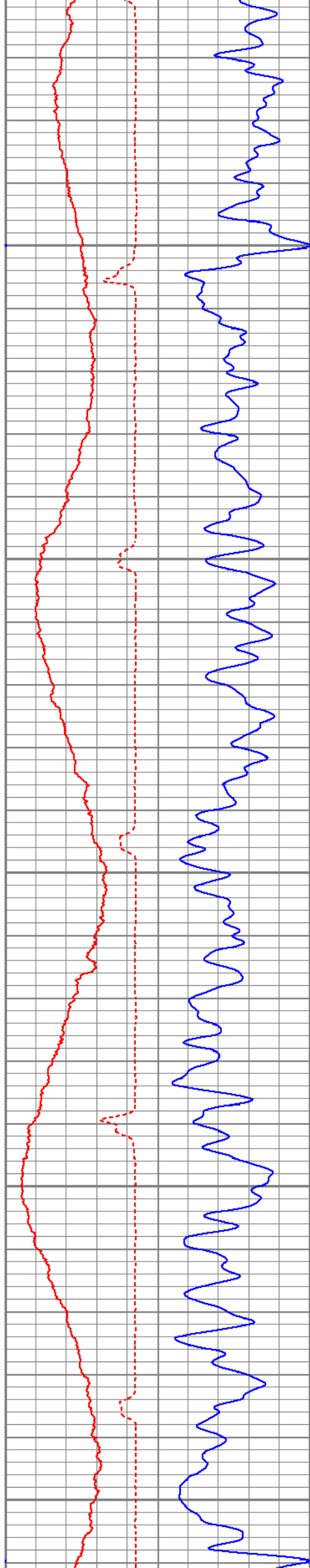
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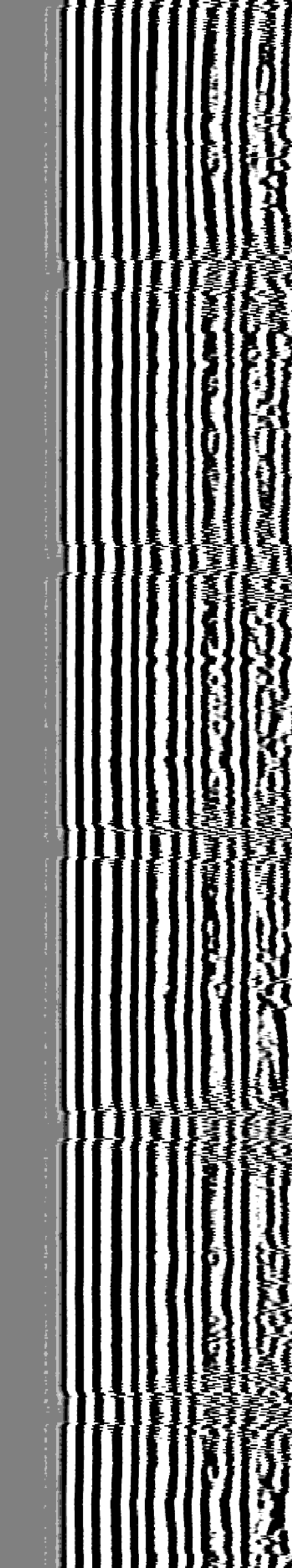
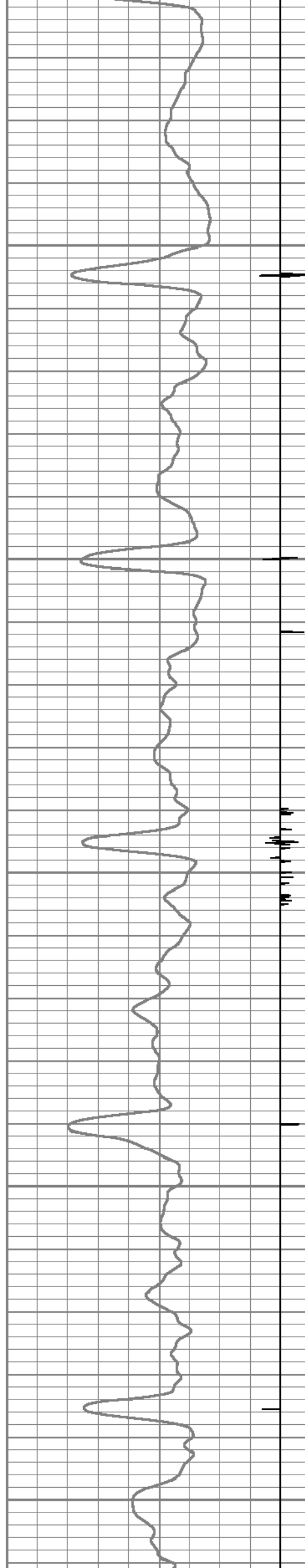
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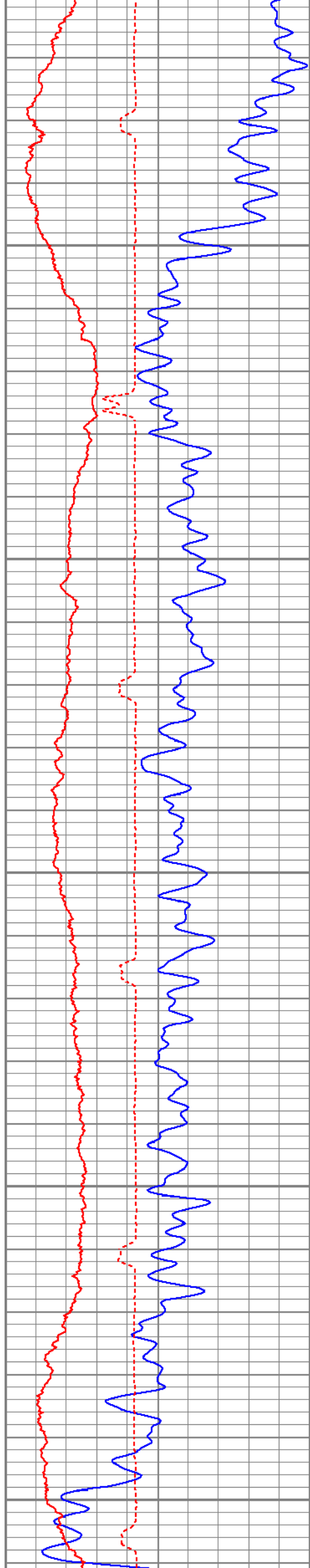
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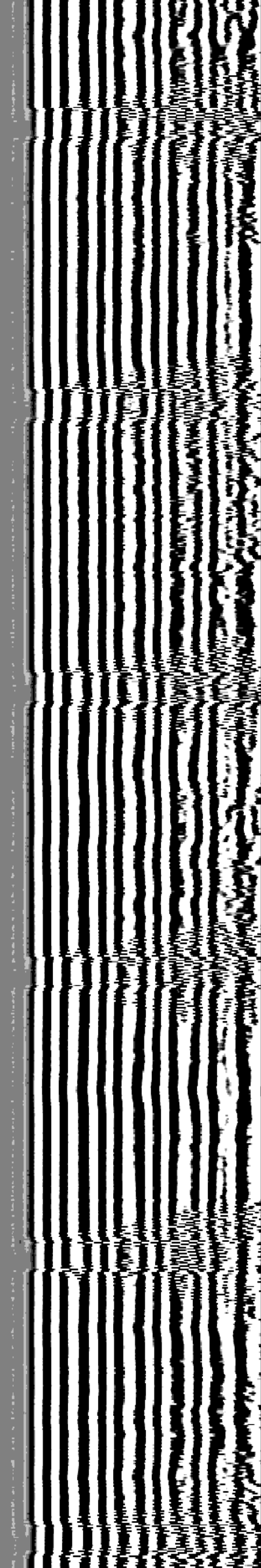
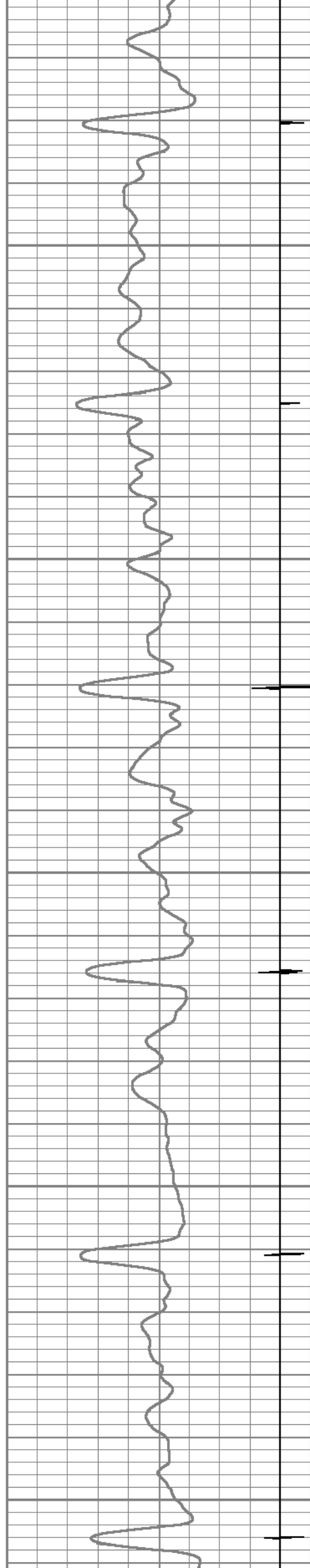
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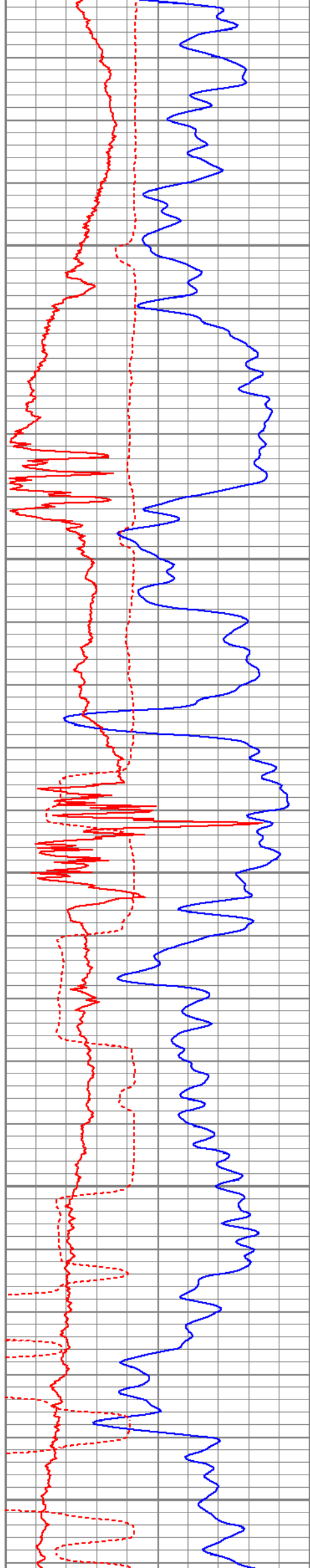
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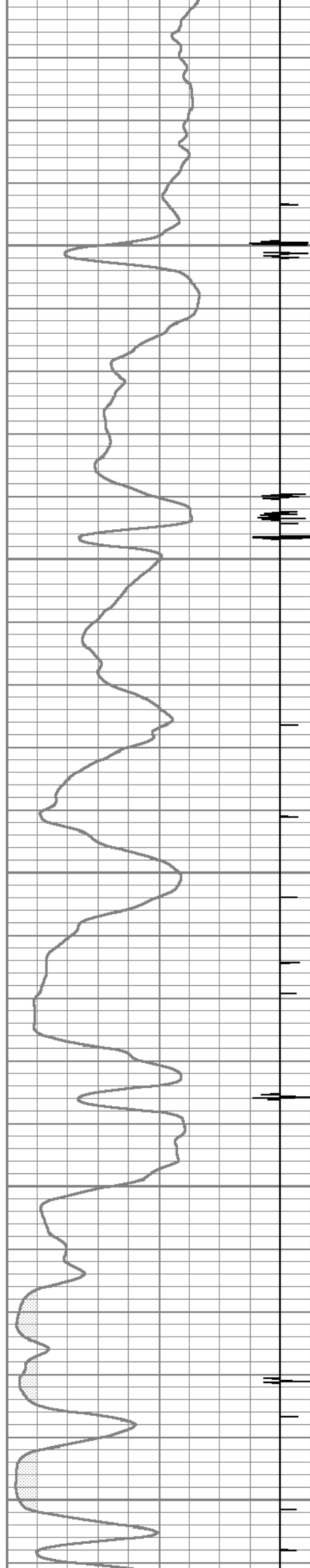
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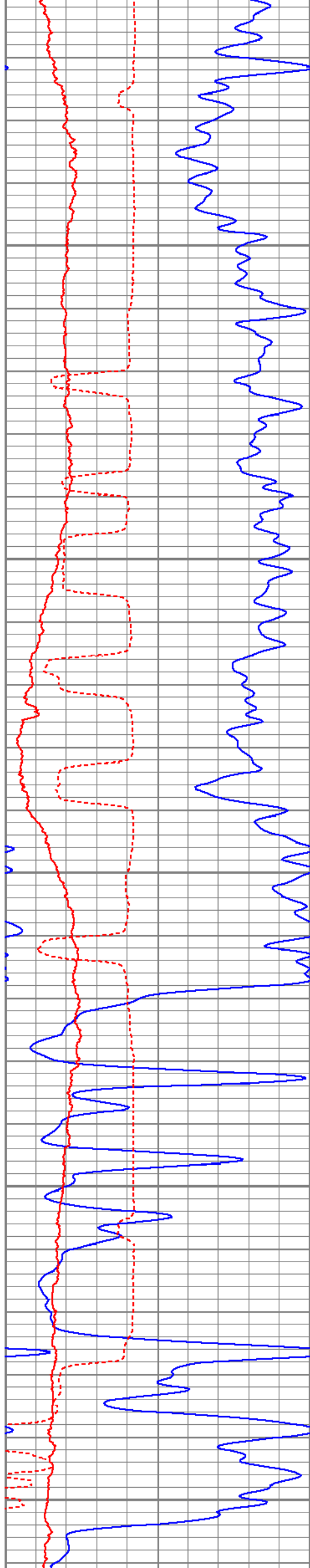
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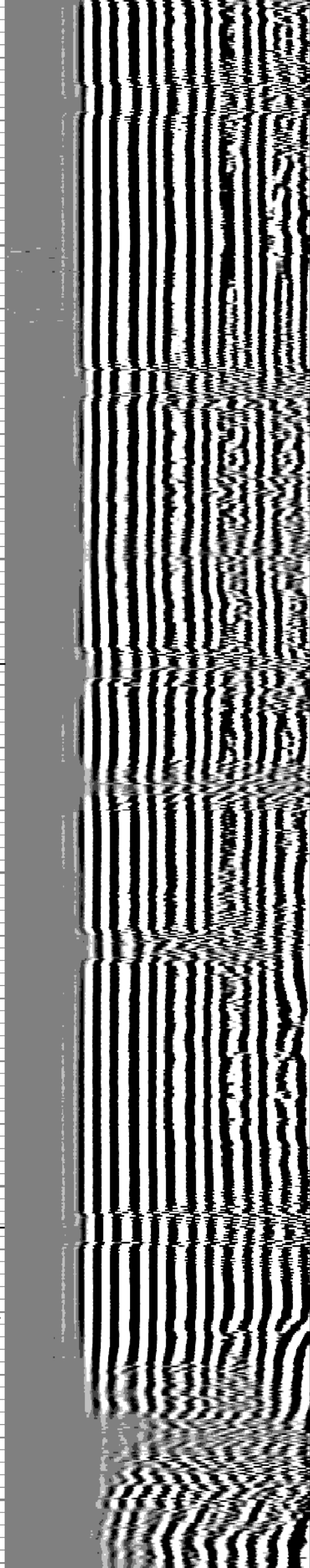
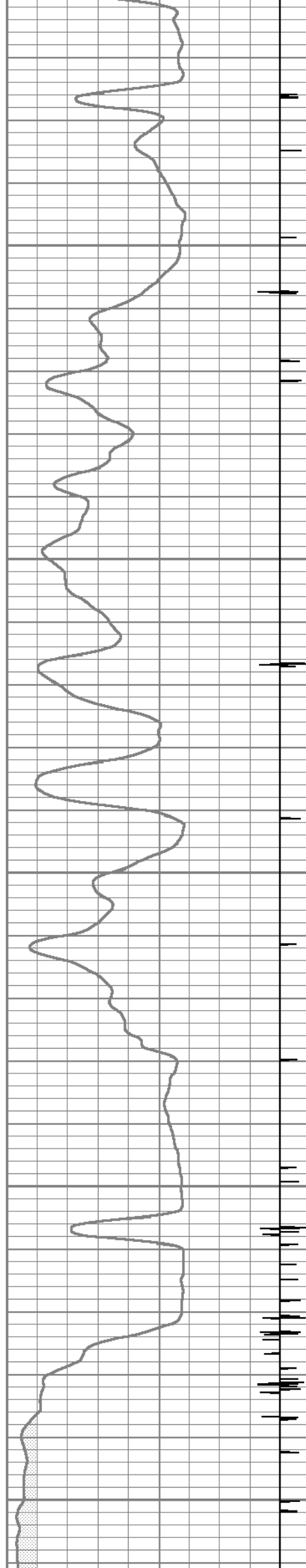
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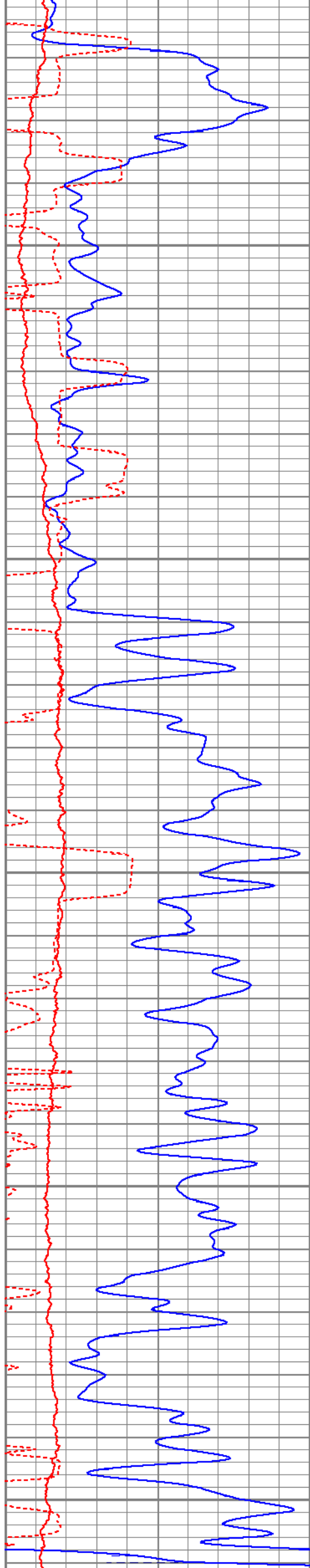
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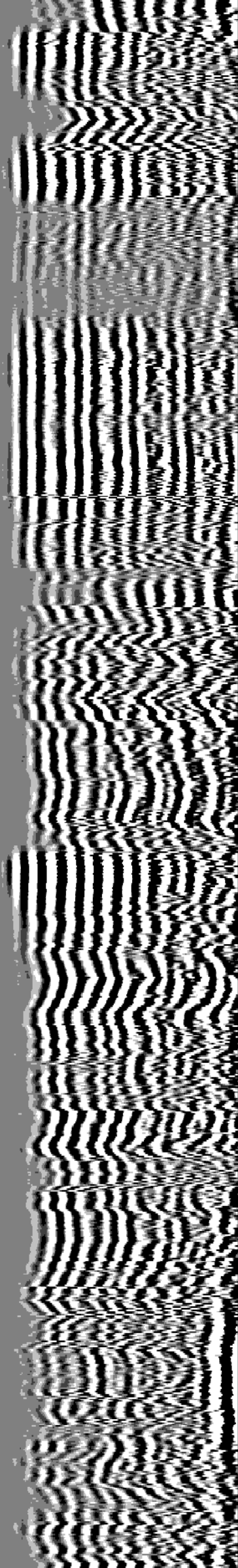
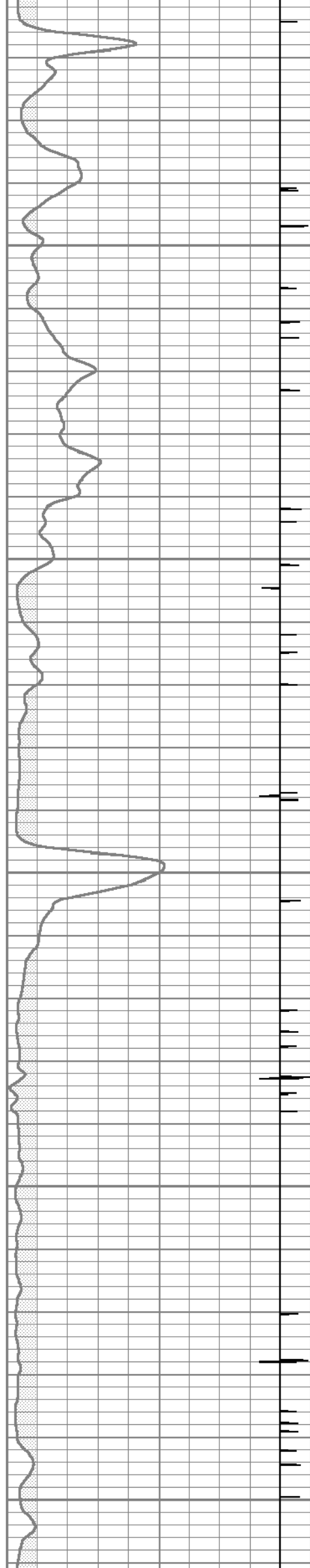
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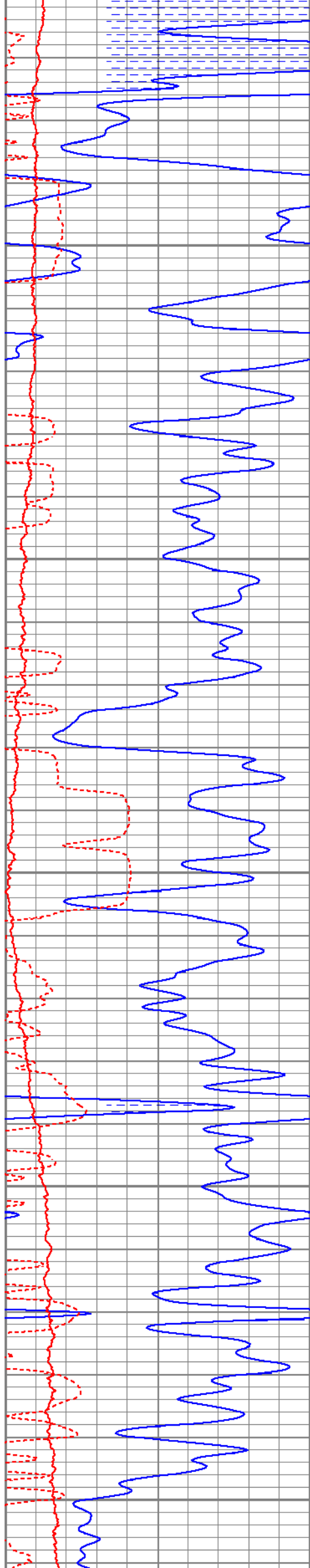
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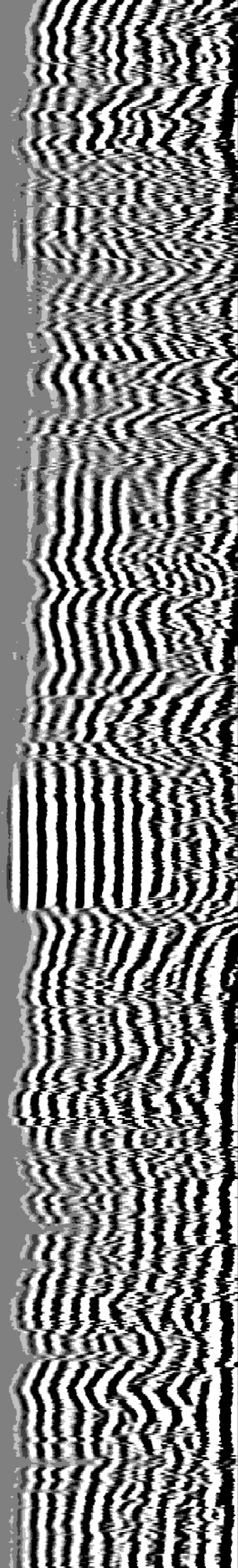
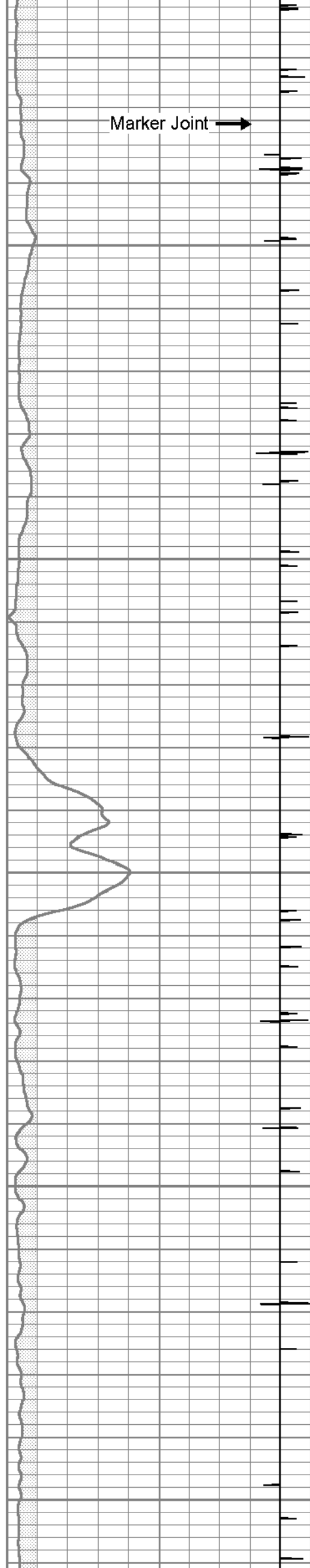
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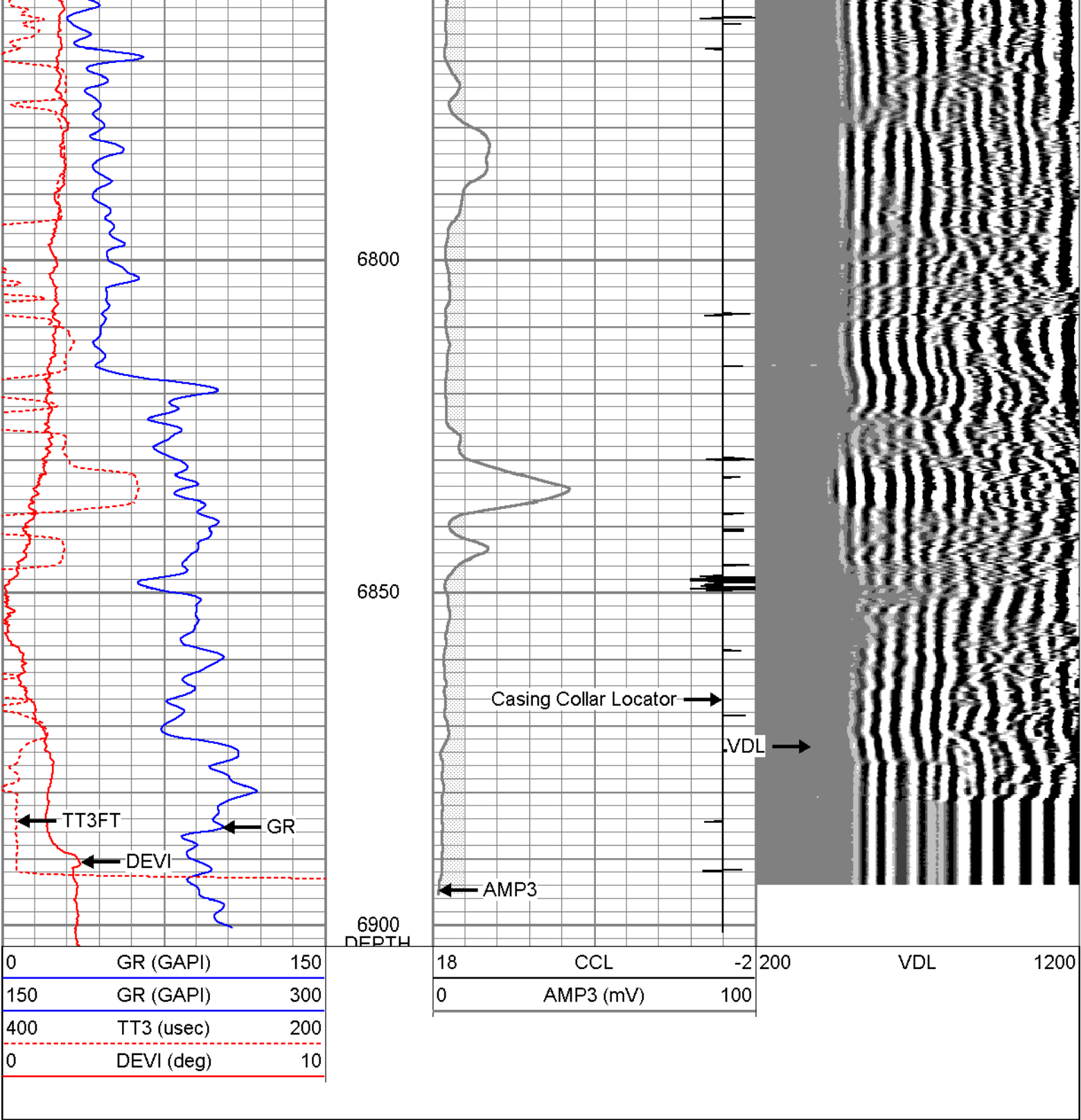
6650

6700

6750

Marker Joint →





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CENT-275 2 3/4" Centralizer	2.94	2.75	10.00
WVFS8	11.63					
WVFS7	11.63					
WVFS6	11.63					
WVFS5	11.63		RBT-Probe (080321) Prototype Probe Radii Bond Tool with Digital Telemetry	8.33	2.75	90.00
WVFS4	11.63					
WVFS3	11.63					
WVFS2	11.63					
WVFS1	11.63					
WVFCAL	11.63					
WVF3FT	11.63		CENT-275 2 3/4" Centralizer	2.94	2.75	10.00
WVF5FT	10.63					
CCL	3.50					
ACCZ	1.83					
ACCY	1.83		GR-275D_INC (081014) 2-3/4" GR-CCL with Inclination	4.50	2.75	
ACCX	1.83					

GR	0.83				
Dataset: sanpablo11-4wd5cbl.db: field/well/run1/pass3 Total length: 18.71 ft Total weight: 110.00 lb O.D.: 2.75 in					

Calibration Report						
Database File	sanpablo11-4wd5cbl.db					
Dataset Pathname	pass3					
Dataset Creation	Tue Jun 24 14:26:40 2014					
Gamma Ray Calibration Report						
Serial Number:	081014					
Tool Model:	275D_INC					
Performed:	Mon Nov 05 09:28:03 2012					
Calibrator Value:	1.0	GAPI				
Background Reading:	0.0	cps				
Calibrator Reading:	1.0	cps				
Sensitivity:	1.0000	GAPI/cps				
Inclinometer Calibration Report						
Performed:	Mon Nov 05 09:28:10 2012					
	Low Read.	High Read.	Low Ref.	High Ref.		
X Accelerometer	-3589.40	3580.00	-1.00	1.00	gee	
Y Accelerometer	-3673.00	3502.20	-1.00	1.00	gee	
Z Accelerometer	24.60	3577.40	0.00	1.00	gee	
Segmented Cement Bond Log Calibration Report						
Serial Number:	080321					
Tool Model:	Probe					
Calibration Casing Diameter:	5.500	in				
Calibration Depth:	2998.229	ft				
Master Calibration, performed Tue Jun 24 12:34:57 2014:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.010	0.760	1.000	71.921	92.105	1.921
CAL	1.093	1.110				
5'	0.538	0.028	1.000	71.921	-138.925	75.745
SUM						
S1	0.362	0.024	0.000	72.000	-213.002	77.023
S2	0.015	0.017	0.000	72.000	40124.117	-610.776
S3	0.082	0.014	0.000	72.000	-1050.443	86.413
S4	0.014	0.015	0.000	72.000	143851.653	-2043.986
S5	0.012	0.012	0.000	72.000	536175.560	-6623.653
S6	0.011	0.011	0.000	72.000	-155209.784	1775.288
S7	0.013	0.012	0.000	72.000	-86742.334	1136.164
S8	0.013	0.012	0.000	72.000	-109220.065	1387.916
Internal Reference Calibration, performed Thu Dec 04 16:30:55 2008:						
	Raw (v)		Calibrated (v)		Results	

Raw (v)		Calibrated (v)		Results		
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.093	1.110	1.000	0.000

Air Zero Calibration, performed Tue Apr 24 10:12:12 2012:

	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