



**GAMMA RAY CCL  
CEMENT BOND VDL**

Company GREAT WESTERN OIL & GAS COMPANY  
 Well WYMAN 33-6  
 Field WATTENBERG  
 County ADAMS State COLO

Location: 1600' FSL & 1650' FEL  
 NWSE  
 SEC 6 TWP 1S RGE 67W  
 Permanent Datum GL Elevation 5111  
 Log Measured From KB 14'  
 Drilling Measured From KB  
 Other Services  
 K.B. 5125  
 D.F.  
 G.L. 5111

Date	FEB-20-2019	
Run Number	ONE	
Depth Driller	8662	
Depth Logger	7400	
Bottom Logged Interval	7400	
Top Log Interval	700	
Open Hole Size	7 7/8	
Type Fluid	WATER	
Density / Viscosity	8.34 PPG	
Max. Recorded Temp.	NA	
Estimated Cement Top	SEE LOG	
Time Well Ready	ROA	
Time Logger on Bottom	5:30	
Equipment Number	72	
Location	STERLING.CO	
Recorded By	KYLE GIRDLER	
Witnessed By	BENELLIS	

Run Number	Borehole Record		Tubing Record				
	Bit	From	To	Size	Weight	From	To
Casing Record	Size	Mgt/Ft	Top	Bottom			
Surface String	8 5/8	24	0	498			
Prot. String							
Production String	4.5	11.6	0	8662			
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.

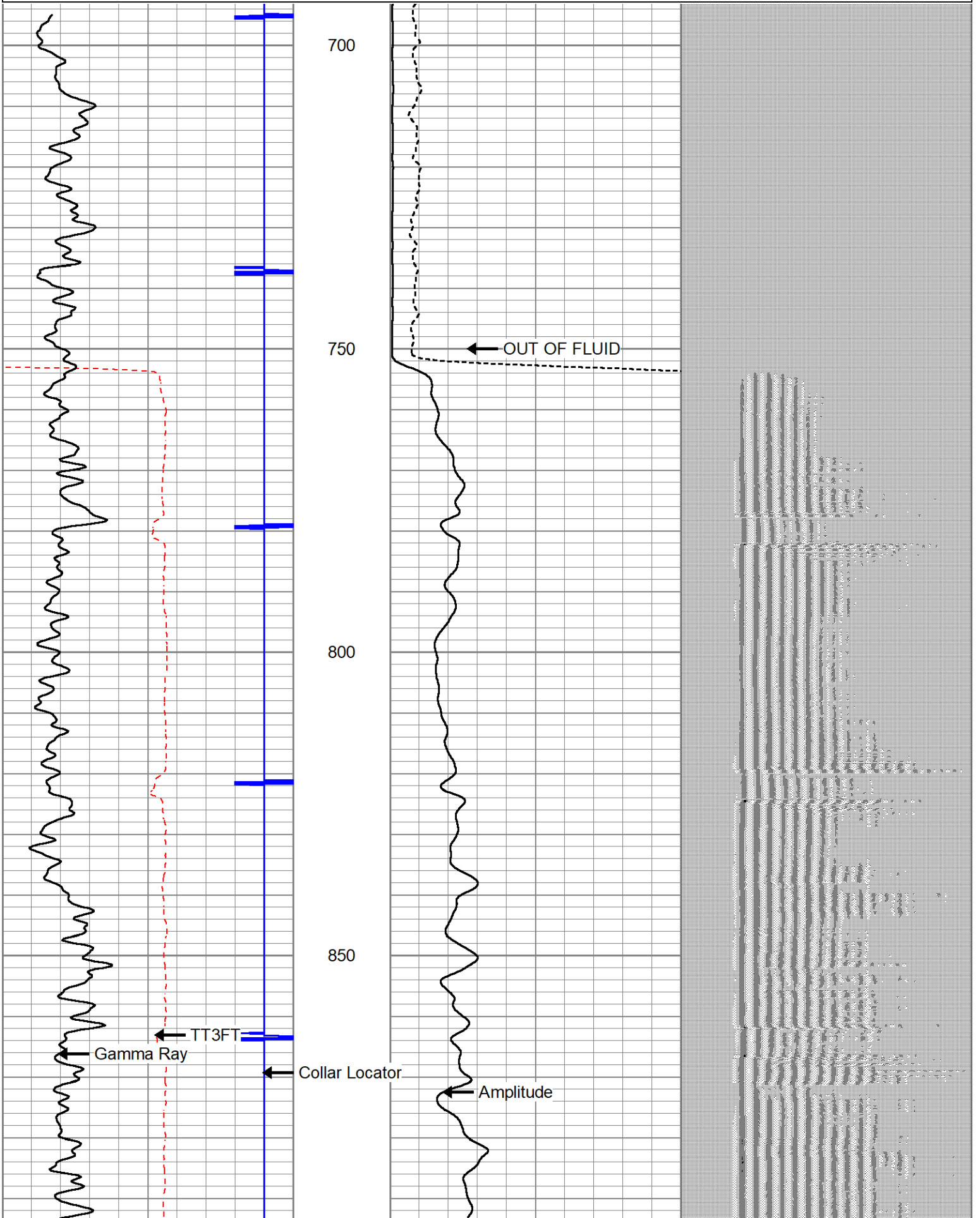
**Comments**

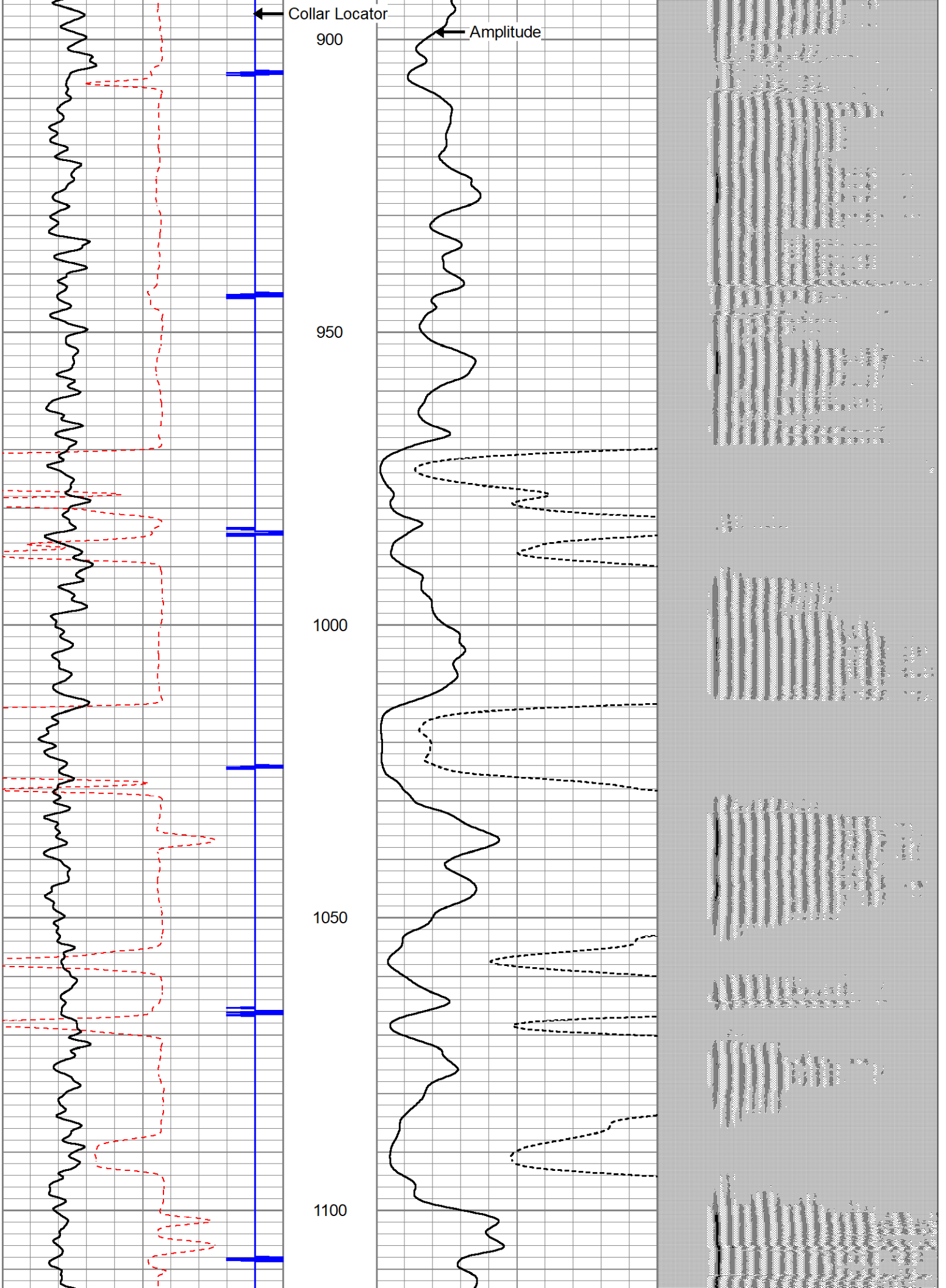
**THANK YOU FOR CHOOSING KLX ENERGY SERVICES  
 LOGGED UNDER 0 INDUCED PRESSURE  
 LOG NOT CORRELATED**

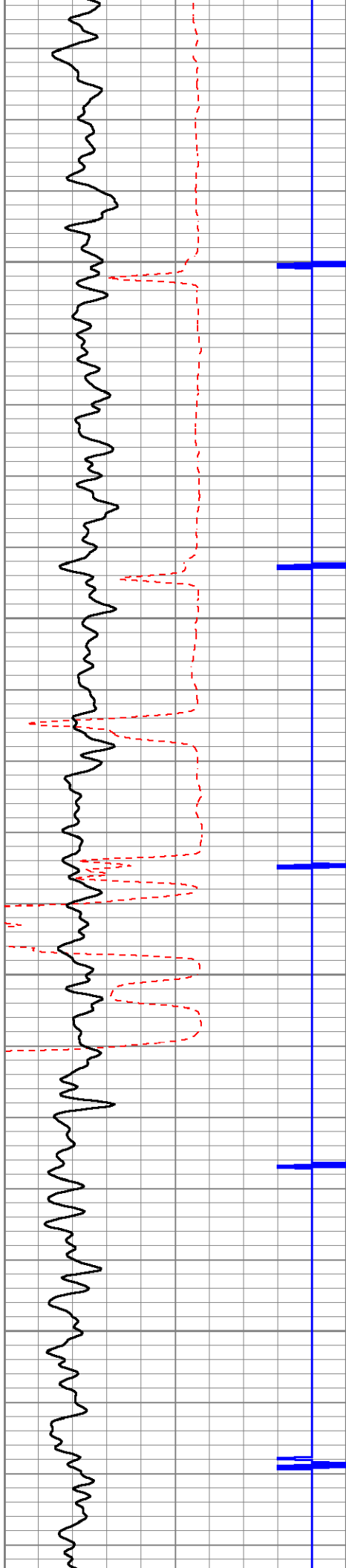
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 Dataset Pathname MAIN\_PASS  
 Presentation Format scbl\_sr  
 Dataset Creation Wed Feb 20 17:56:32 2019  
 Charted by Depth in Feet scaled 1:240

400	TT3FT (usec)	200
9	Collar Locator	-1
0	Gamma Ray (GAPI)	200
0	Line Speed (ft/min)	100

0 Amplitude (mV) 100 200 WWF5FT (usec) 1200





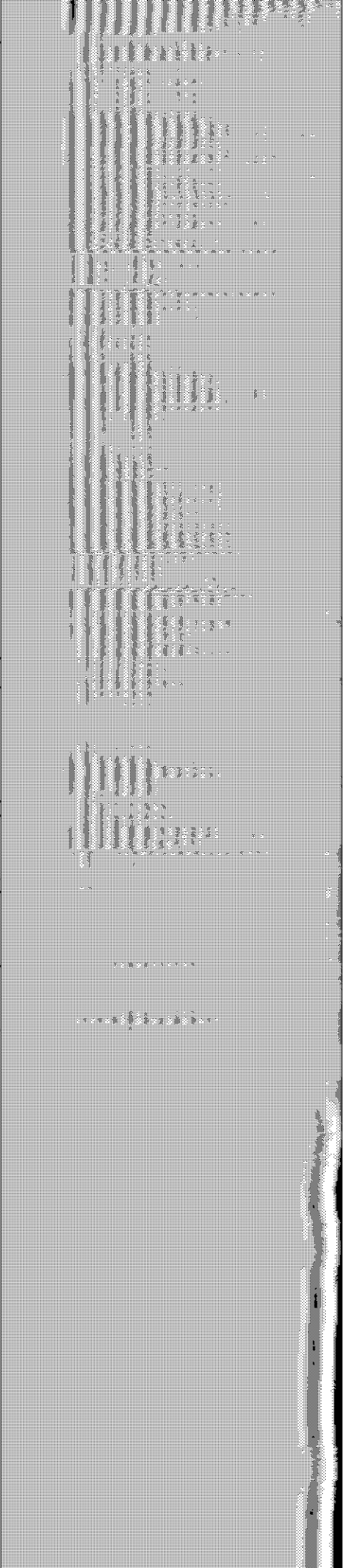
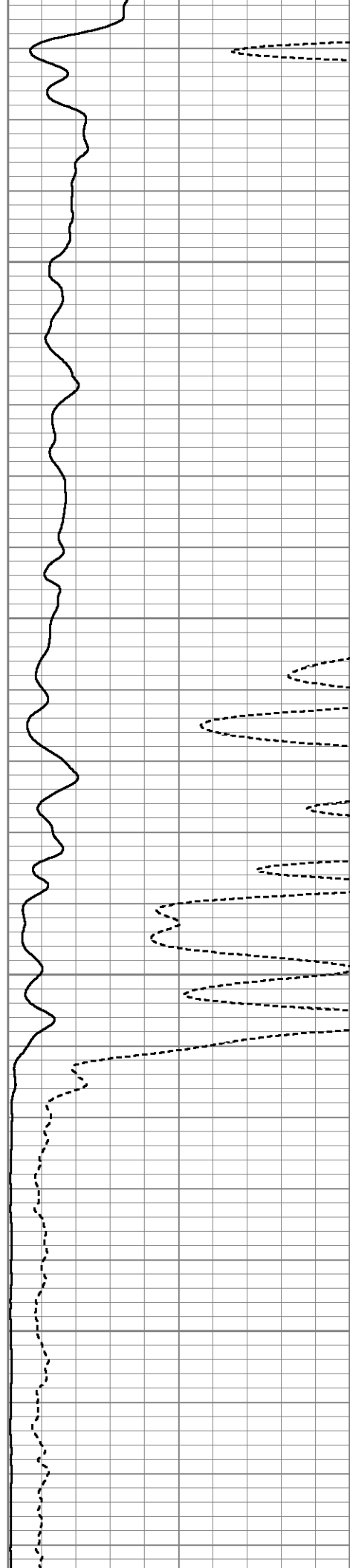


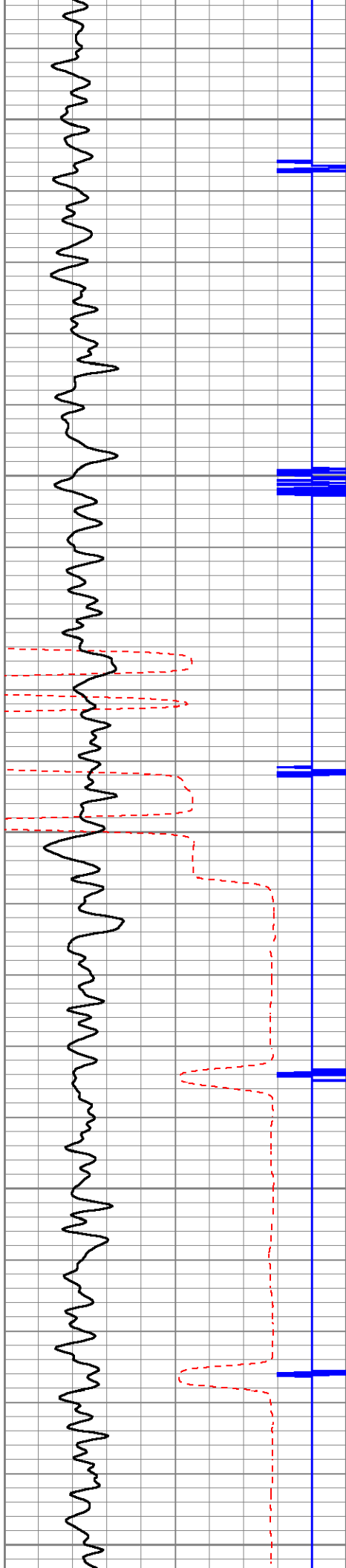
1150

1200

1250

1300





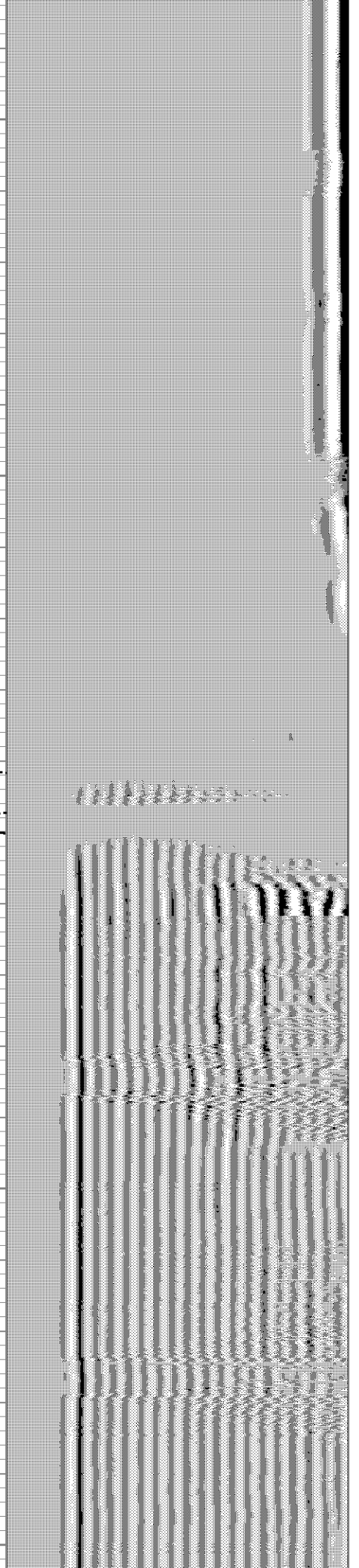
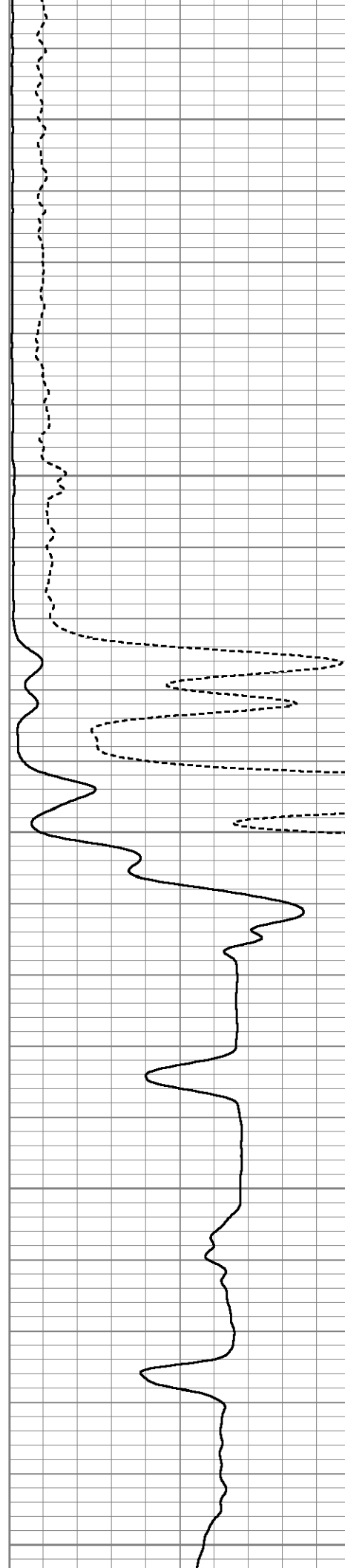
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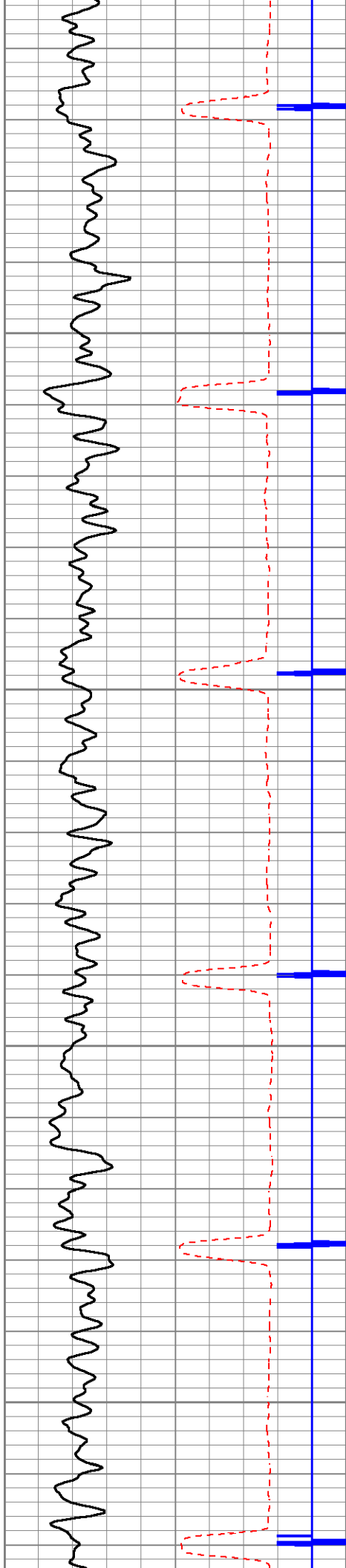
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1450

1500

1550



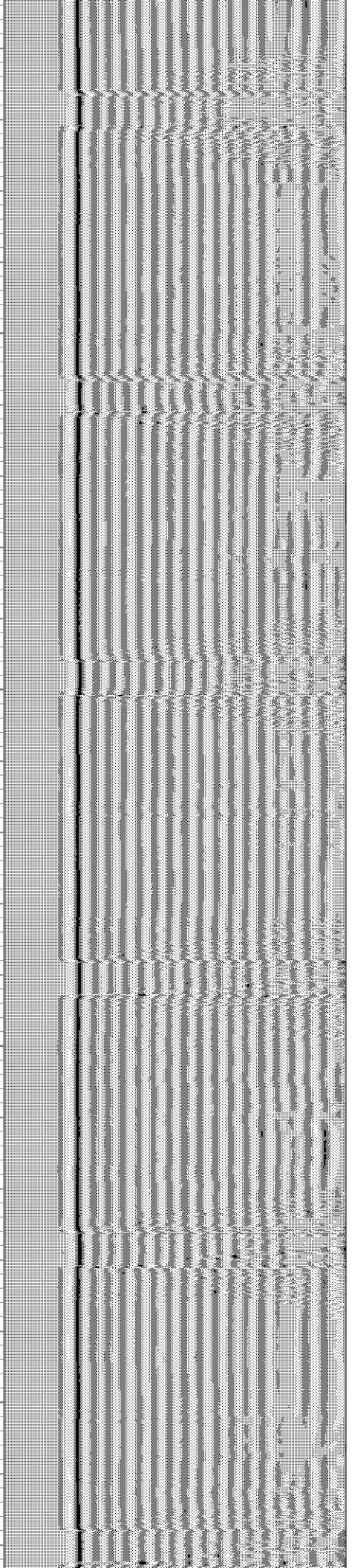
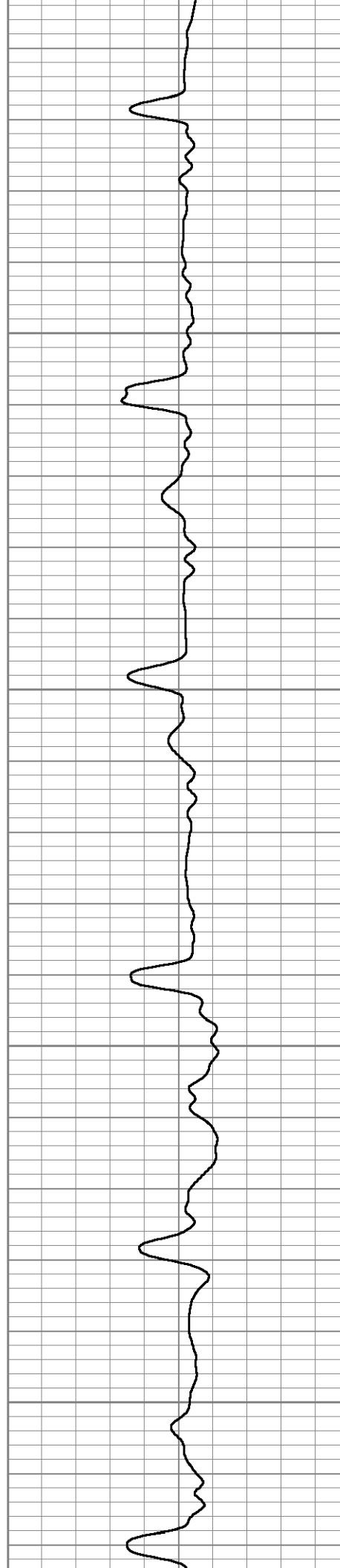


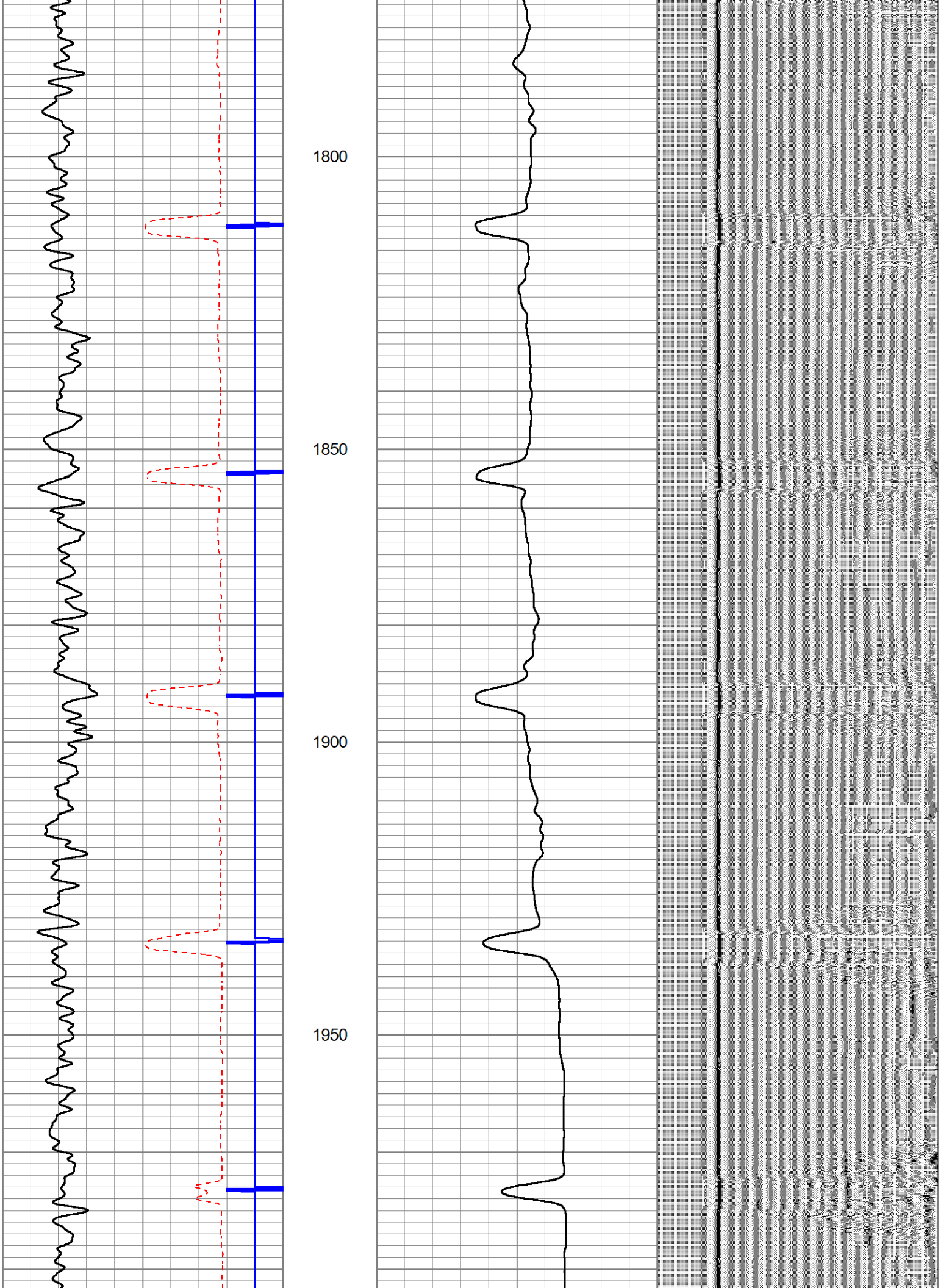
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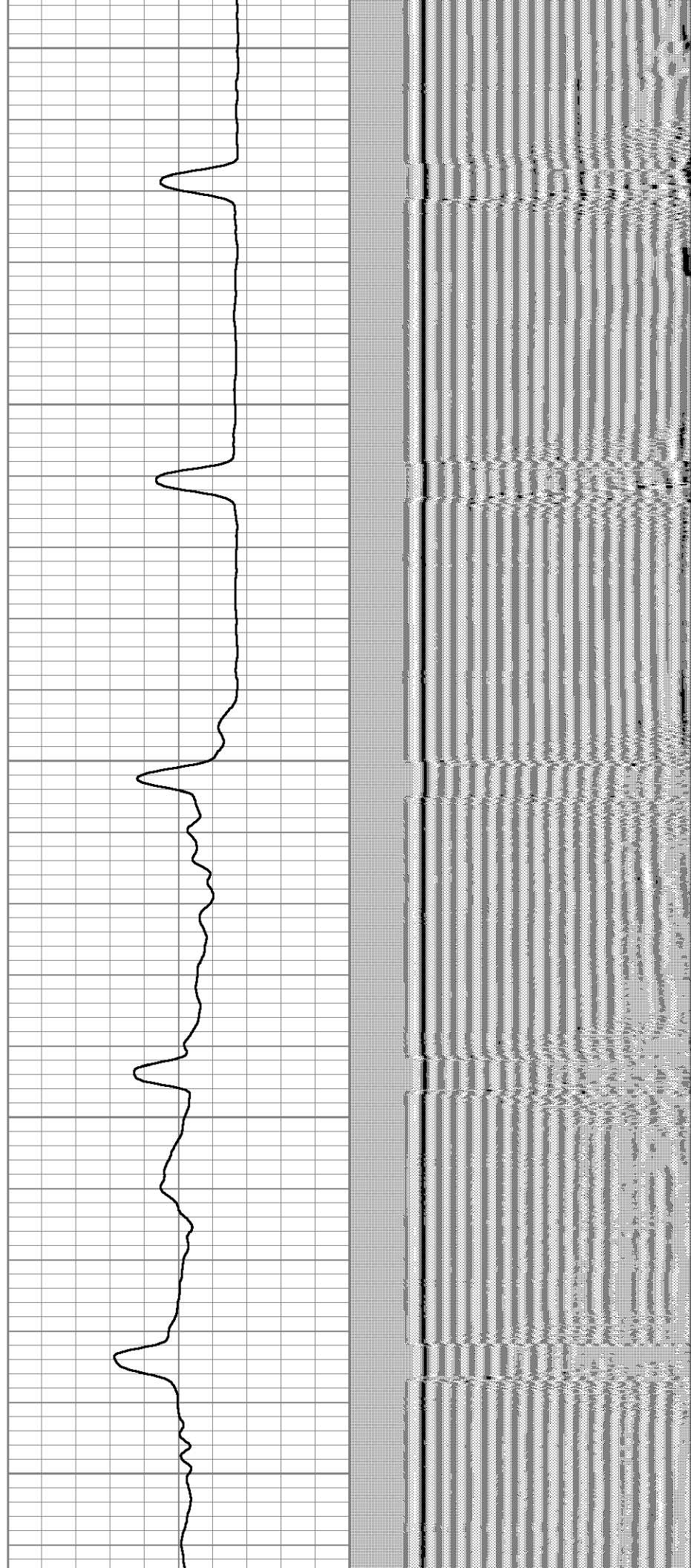
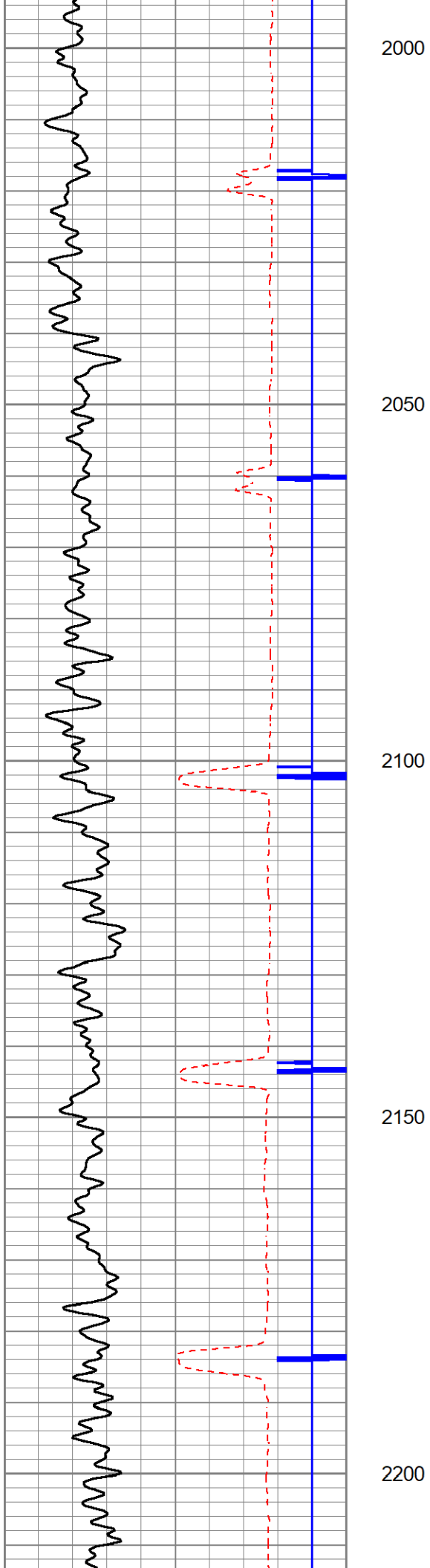
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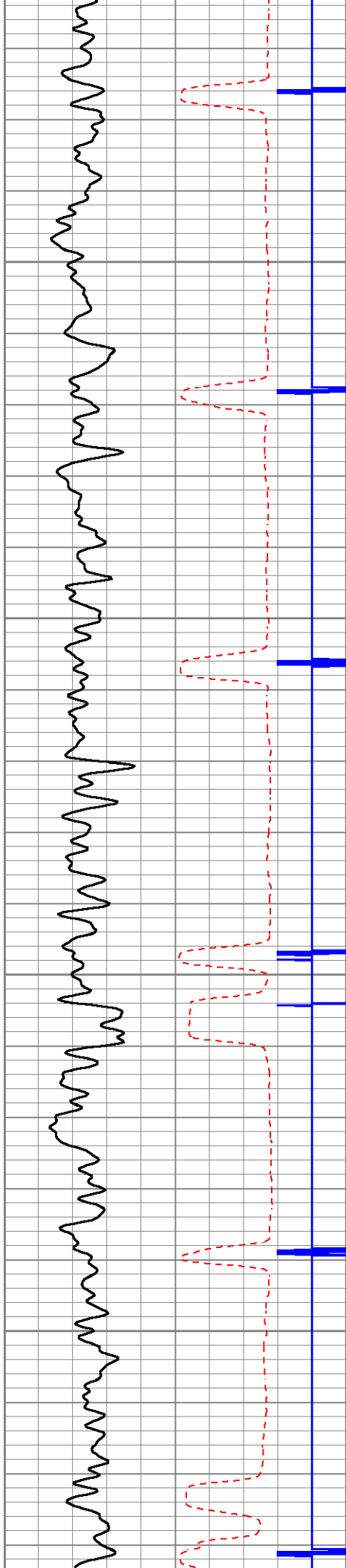
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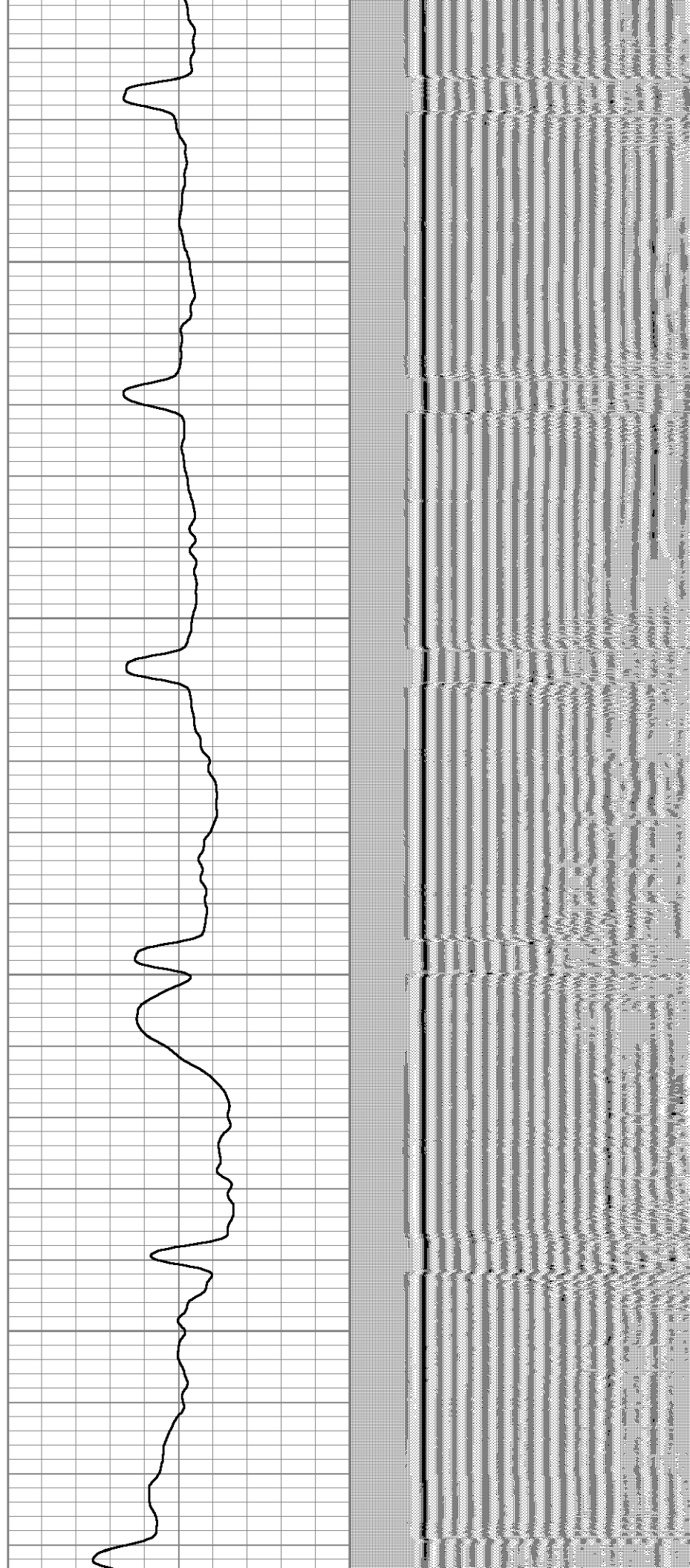


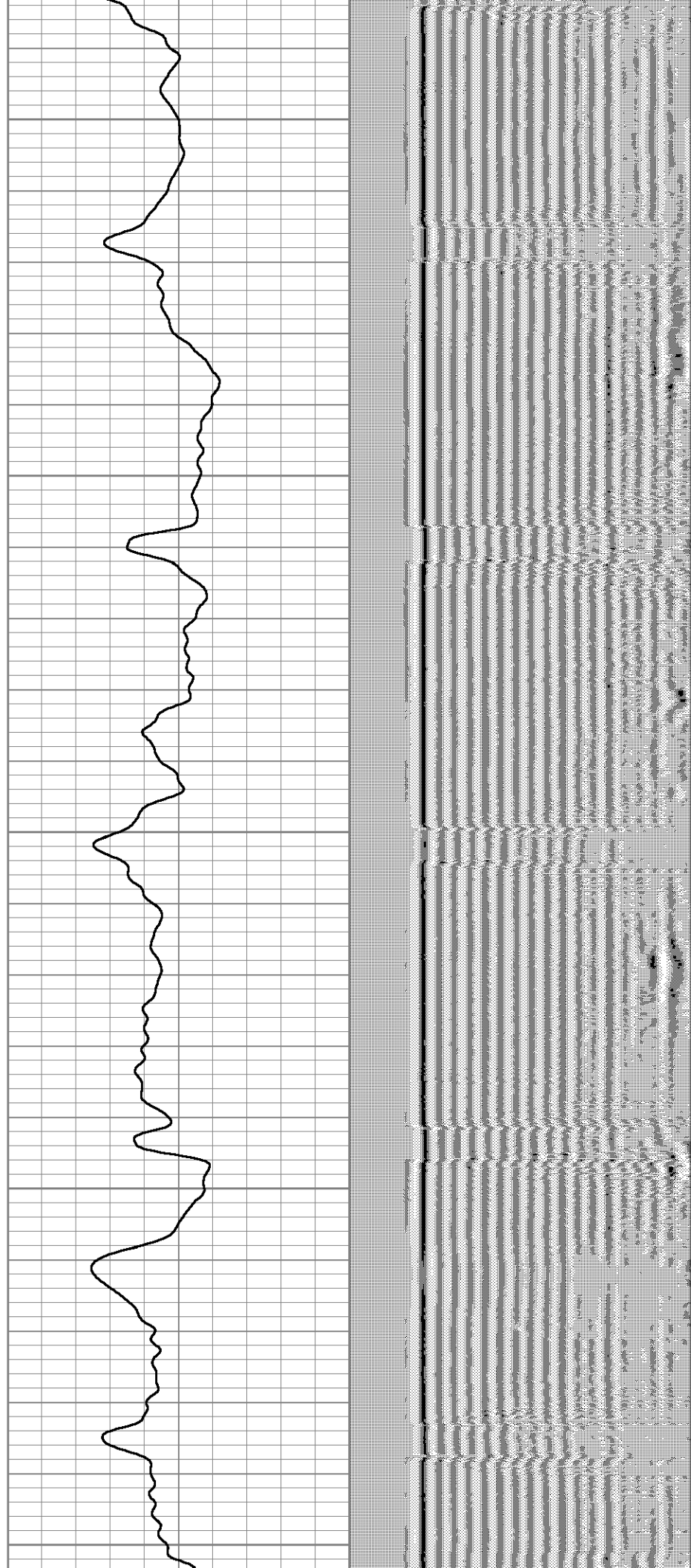
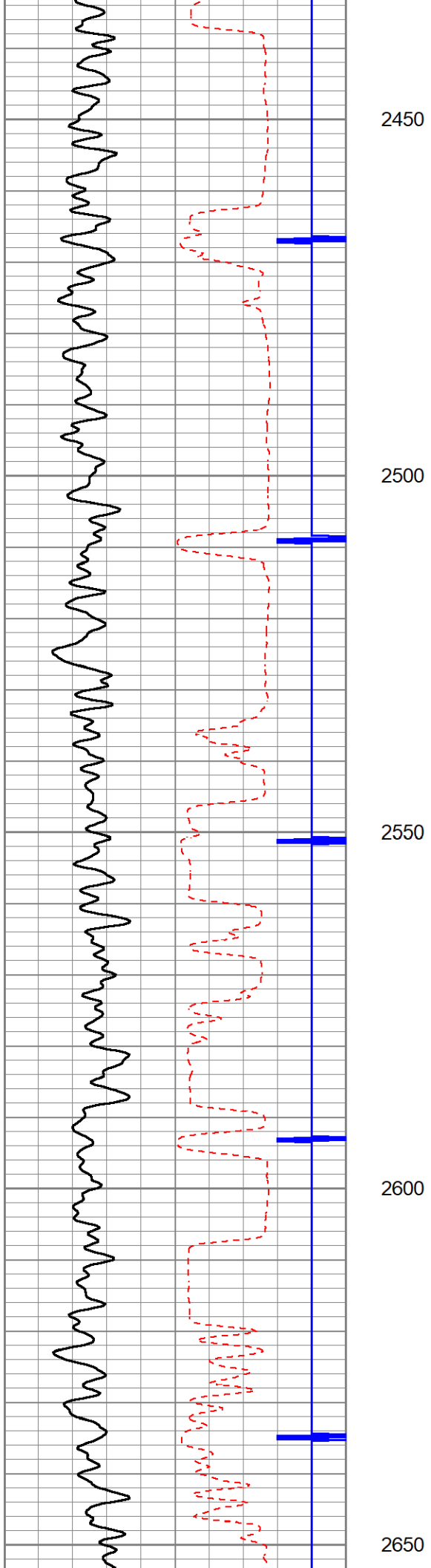
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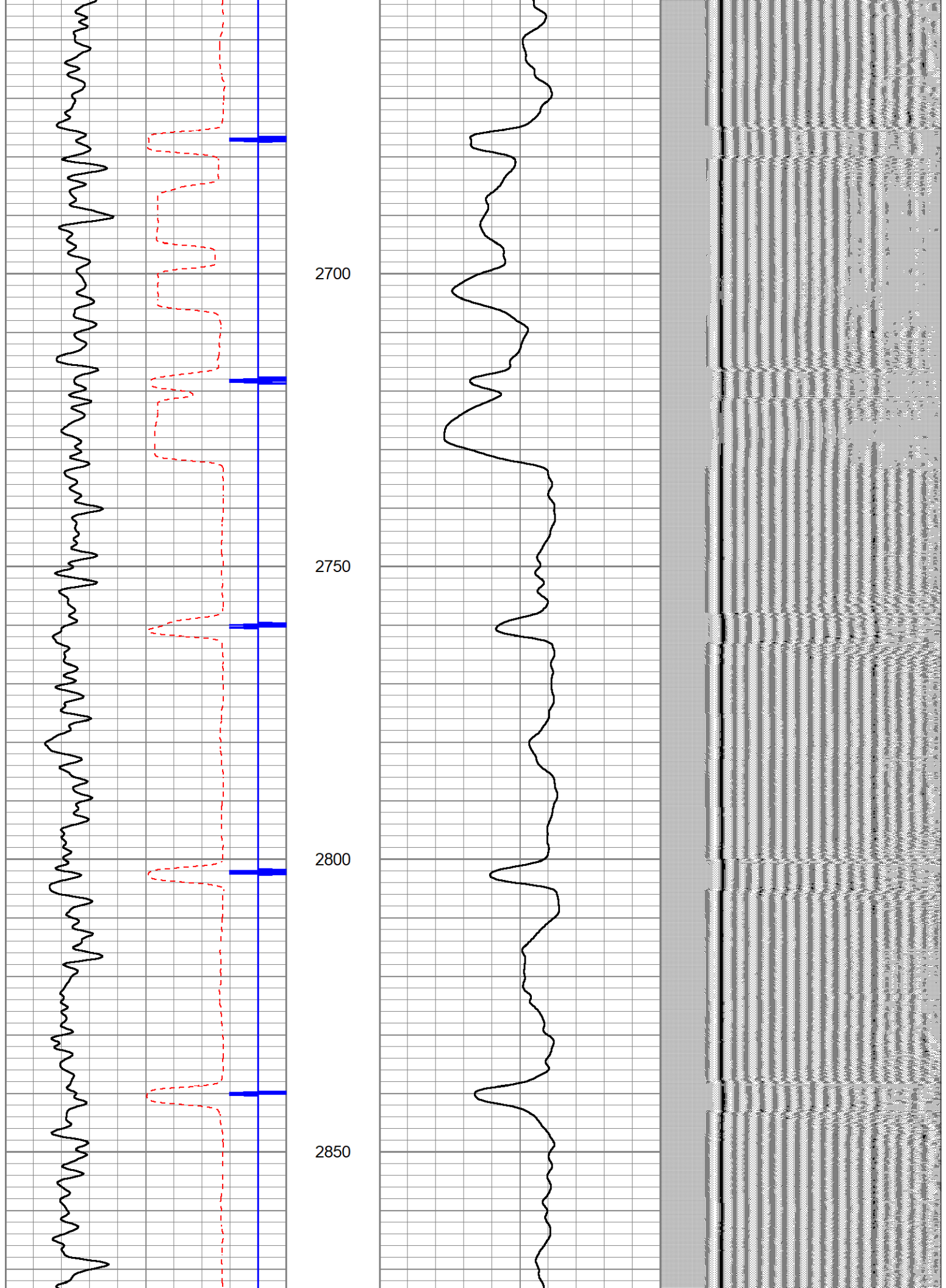
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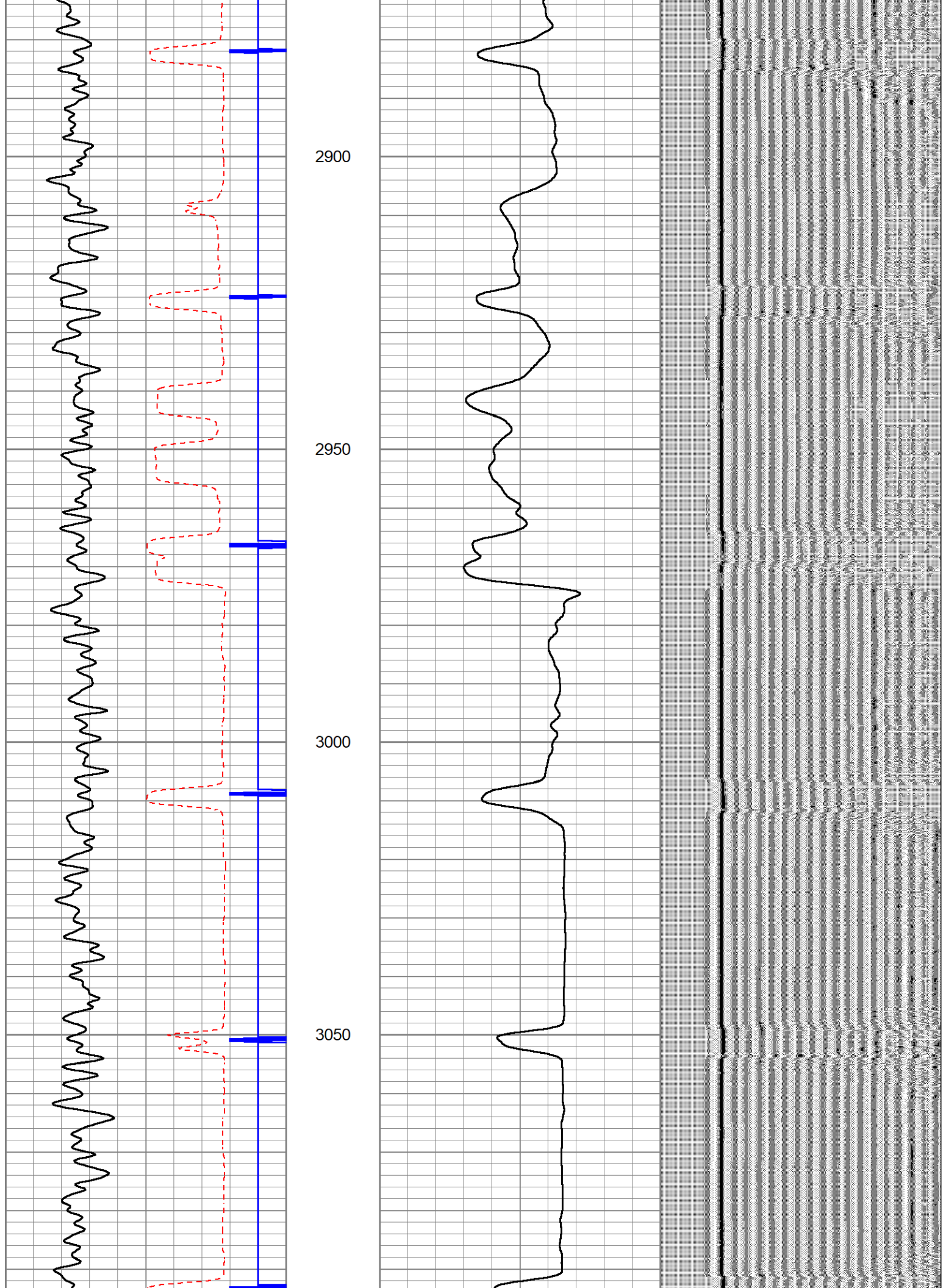
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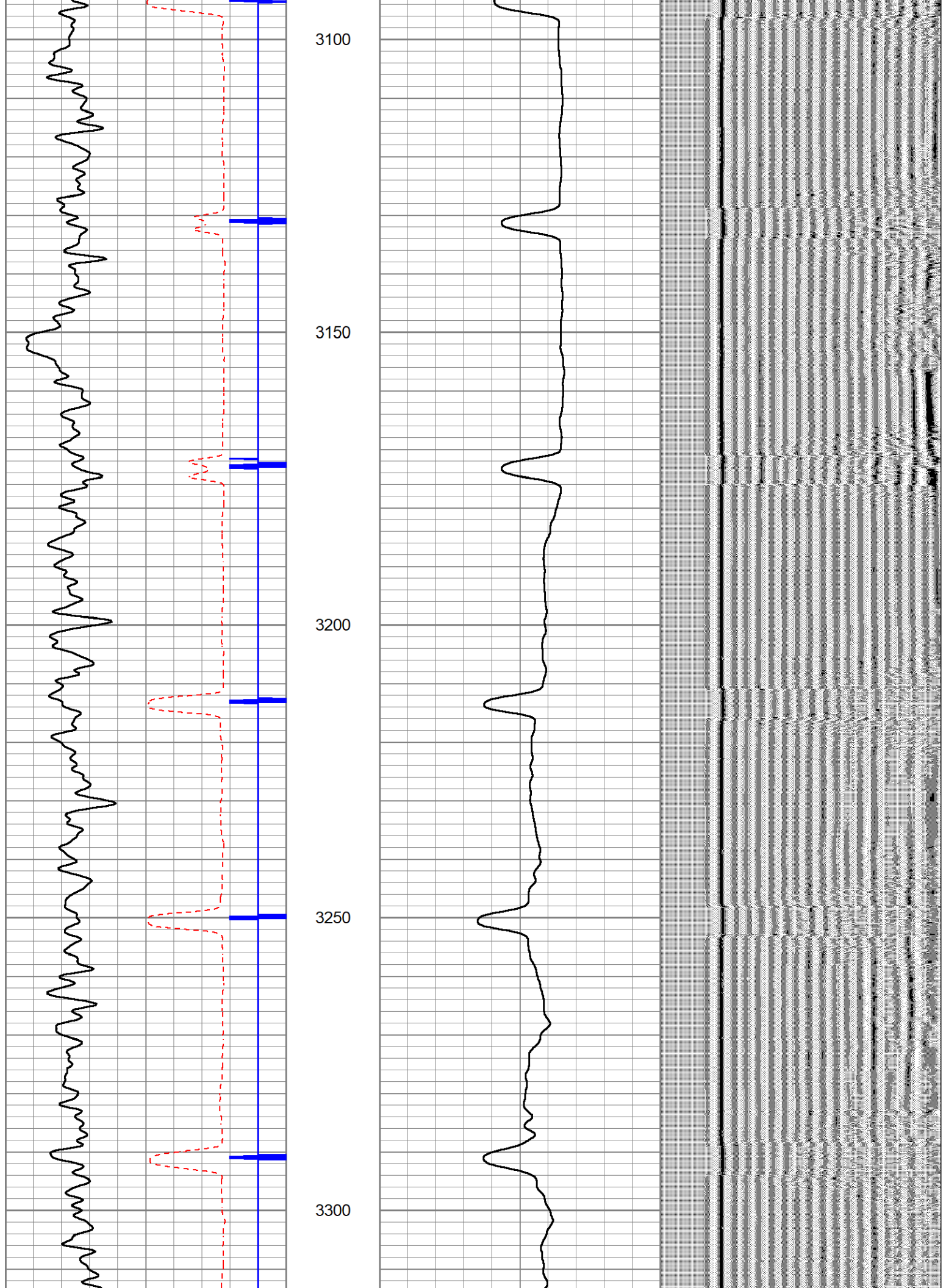
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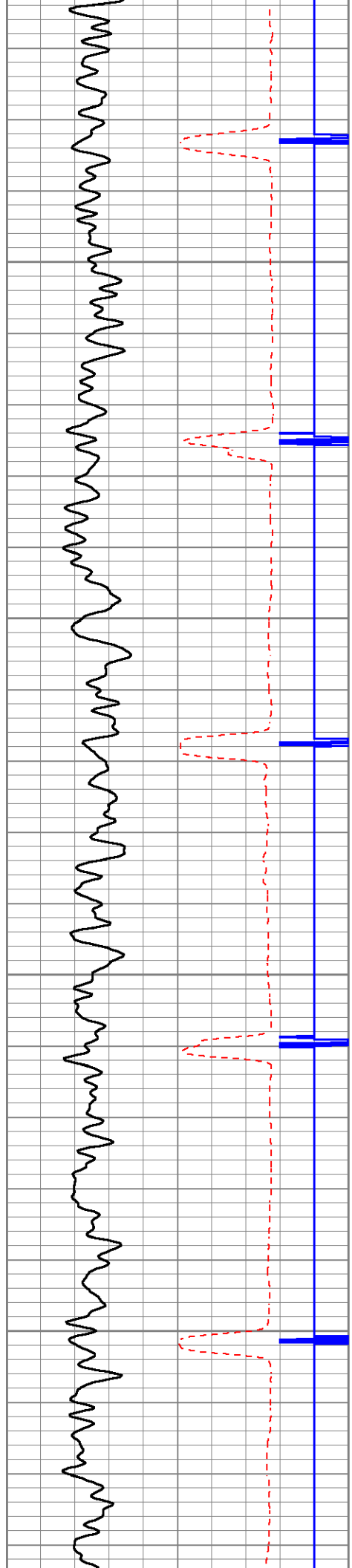










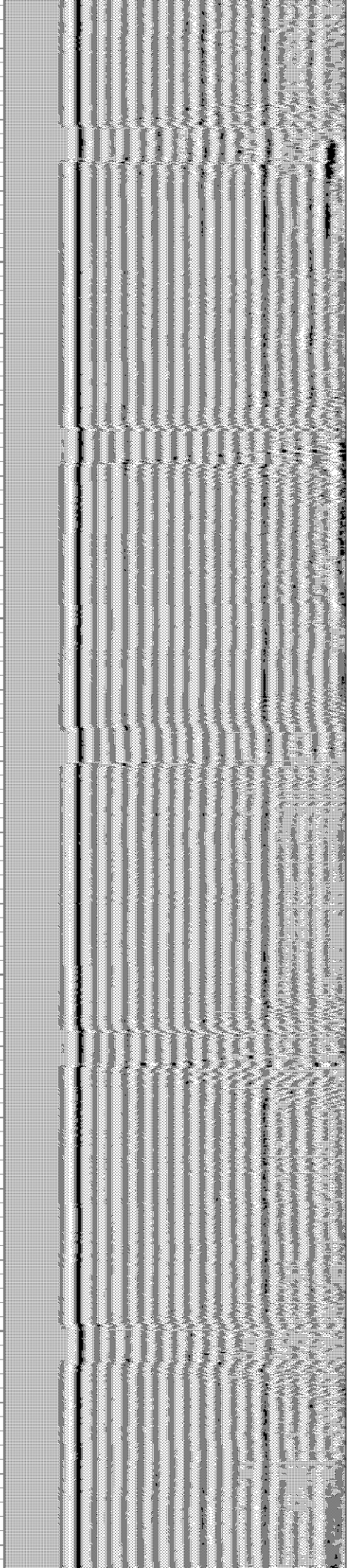
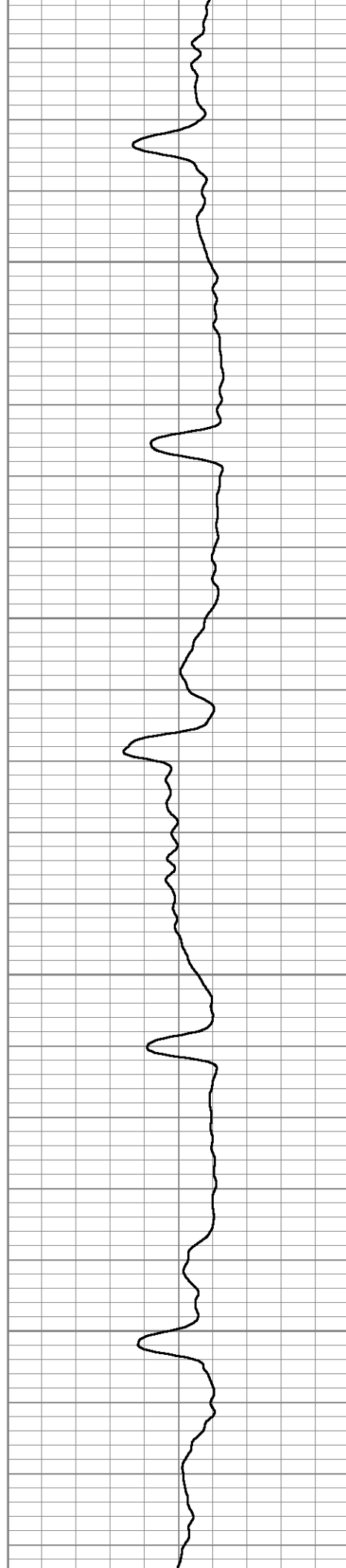


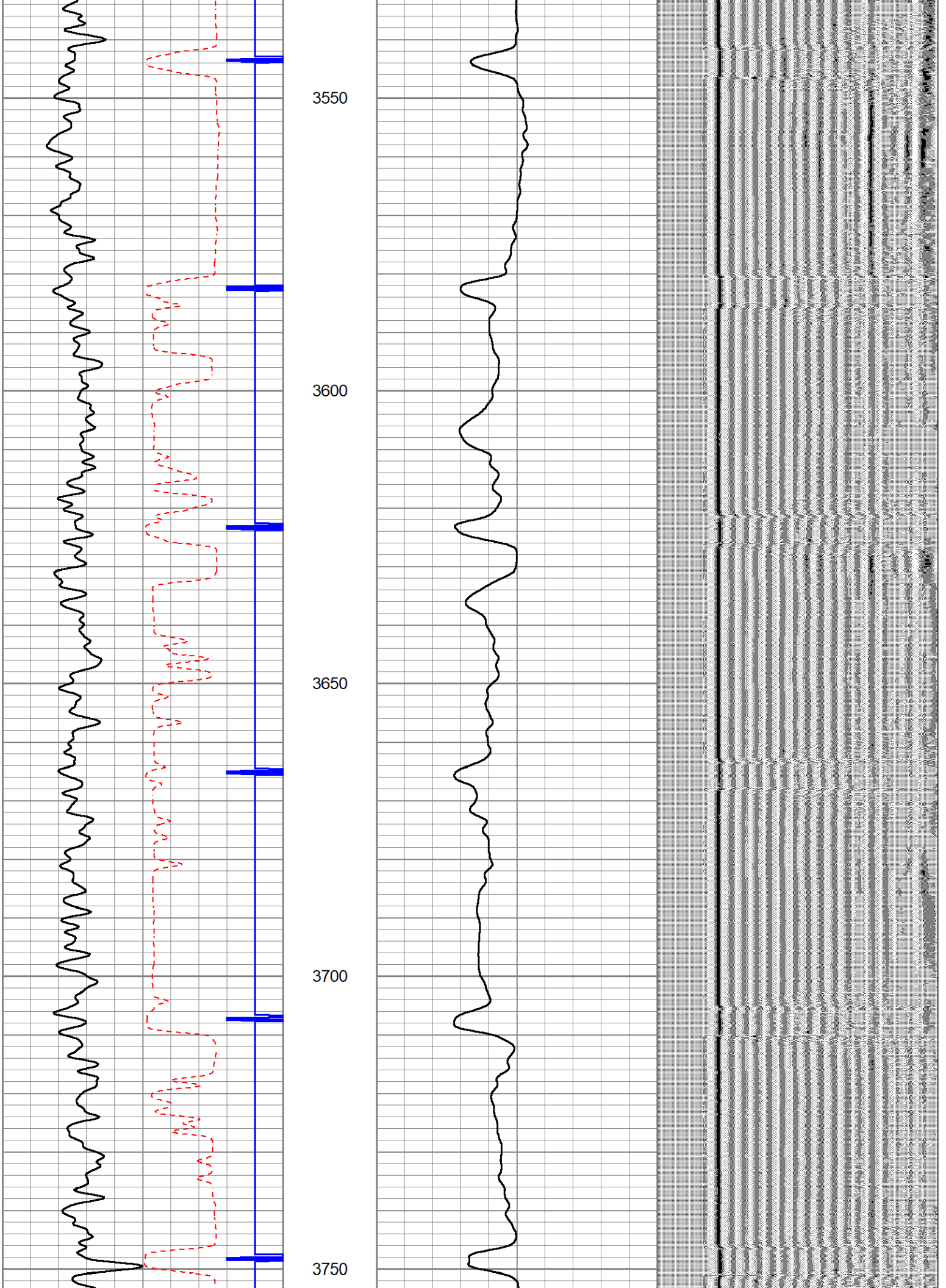
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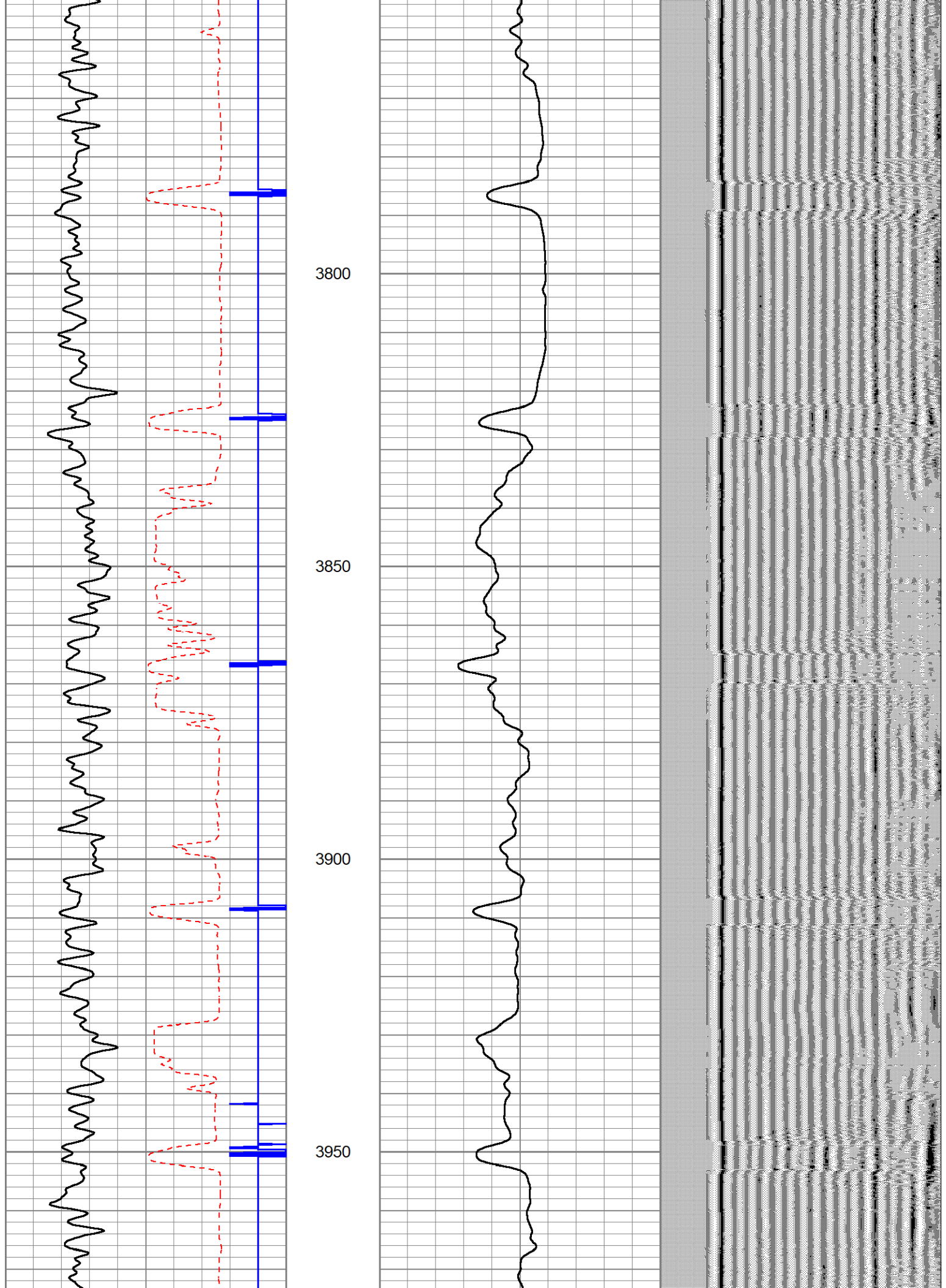
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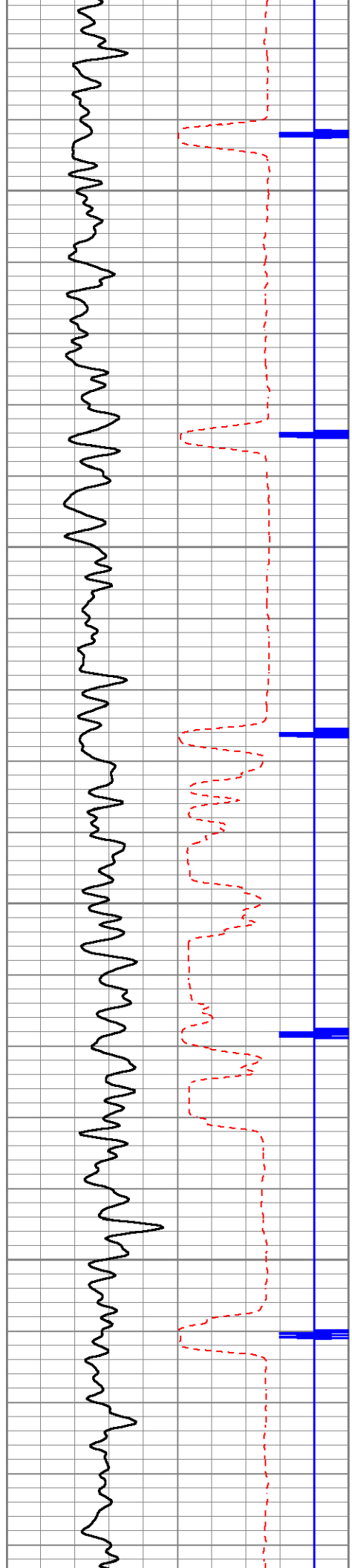
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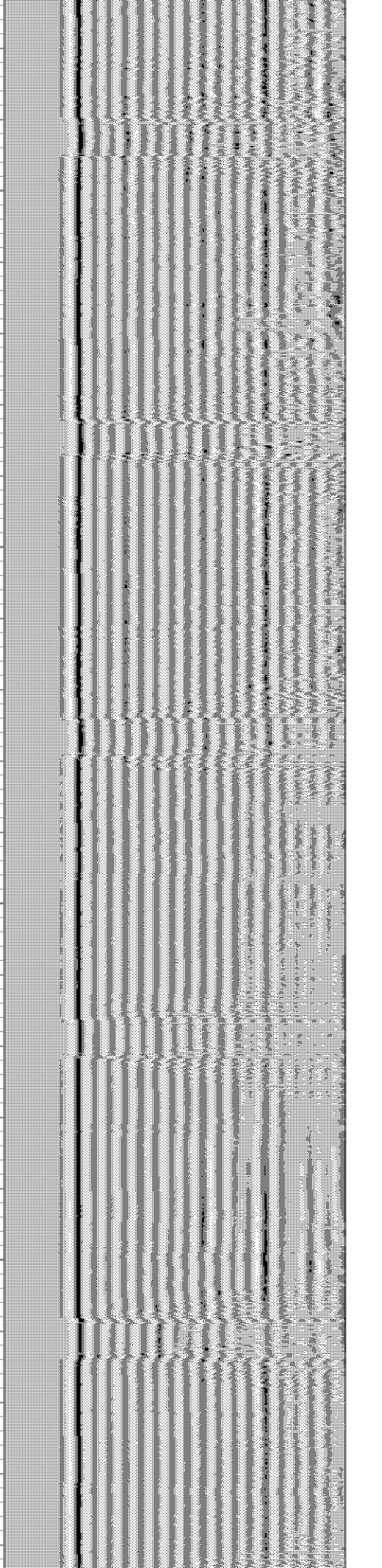
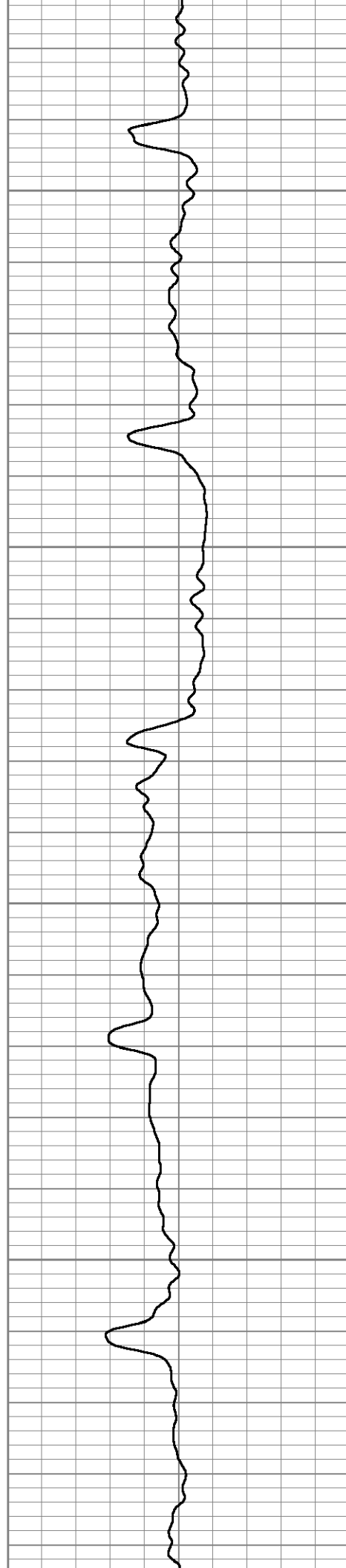


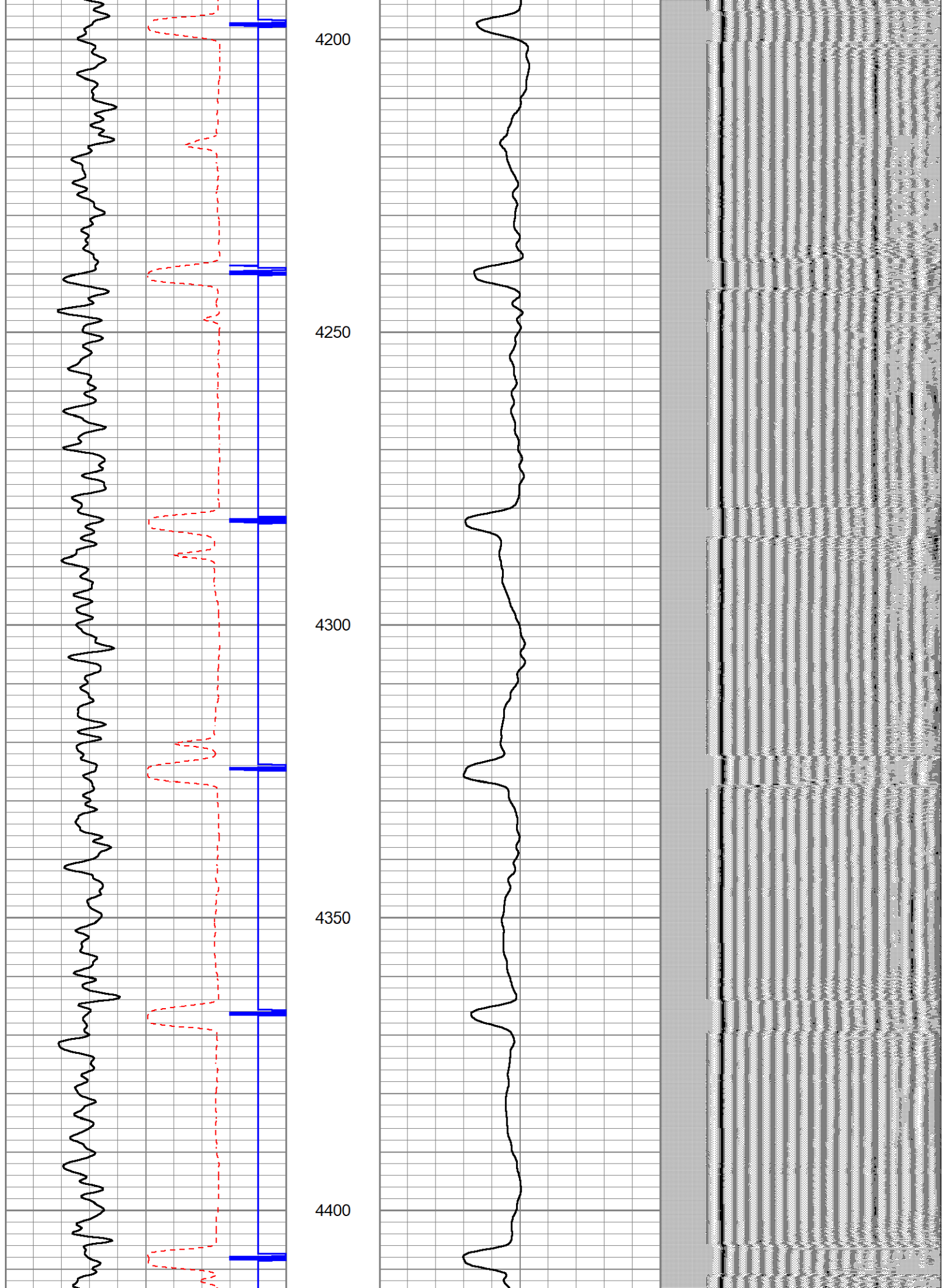
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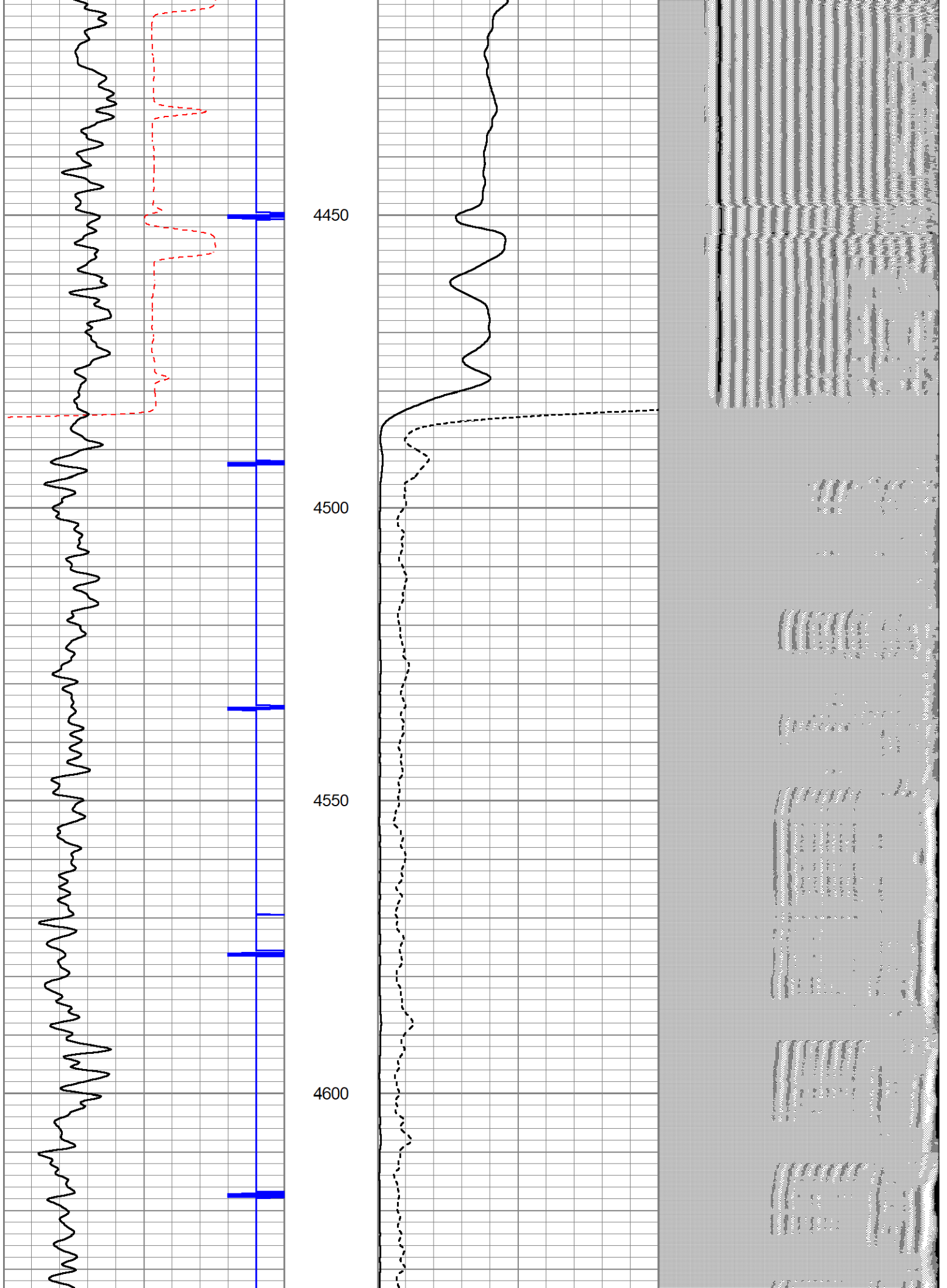
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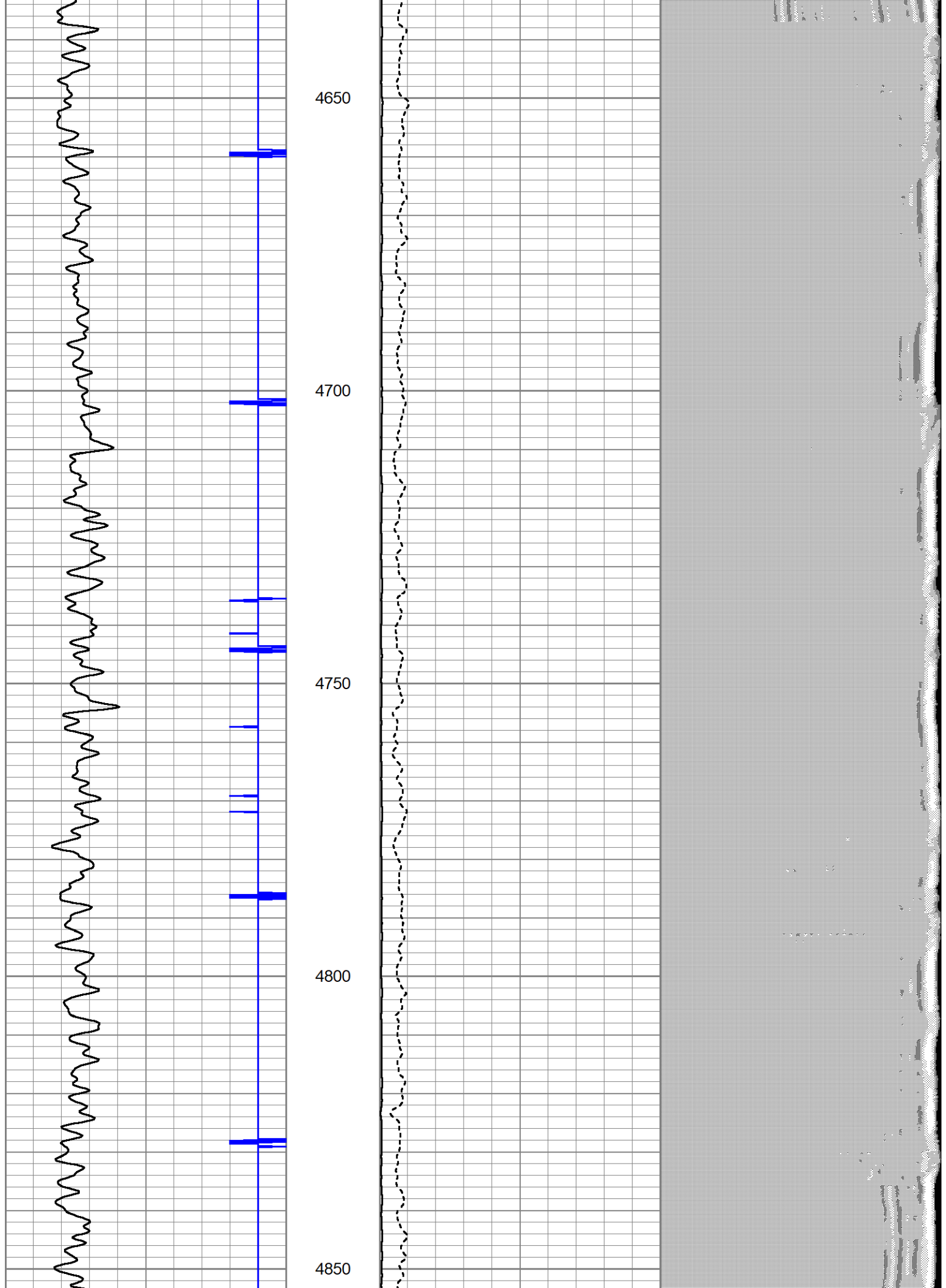
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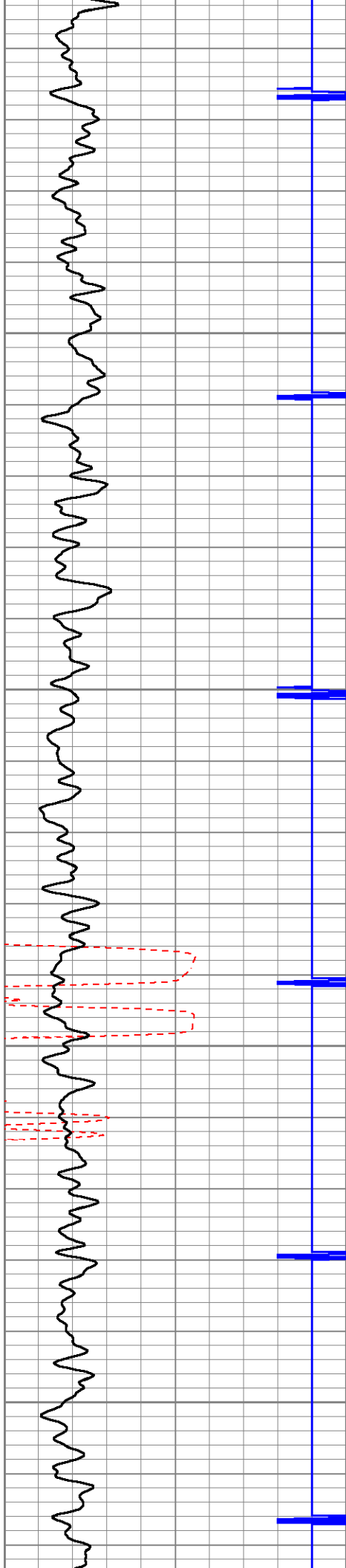
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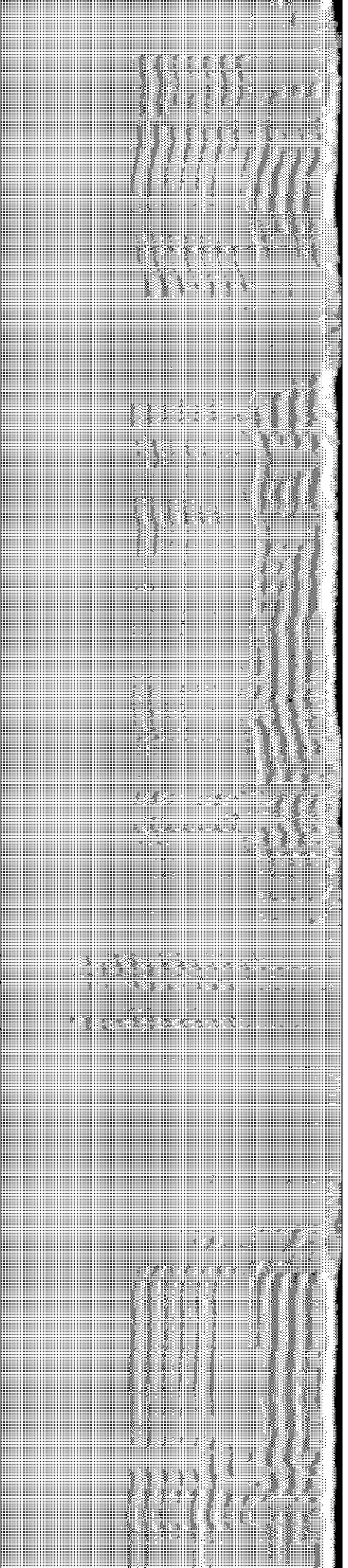
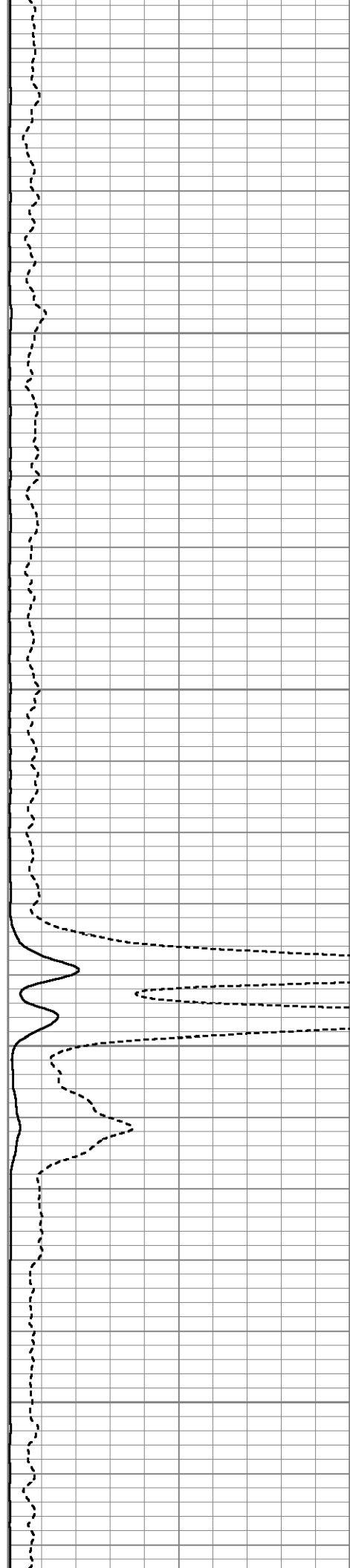


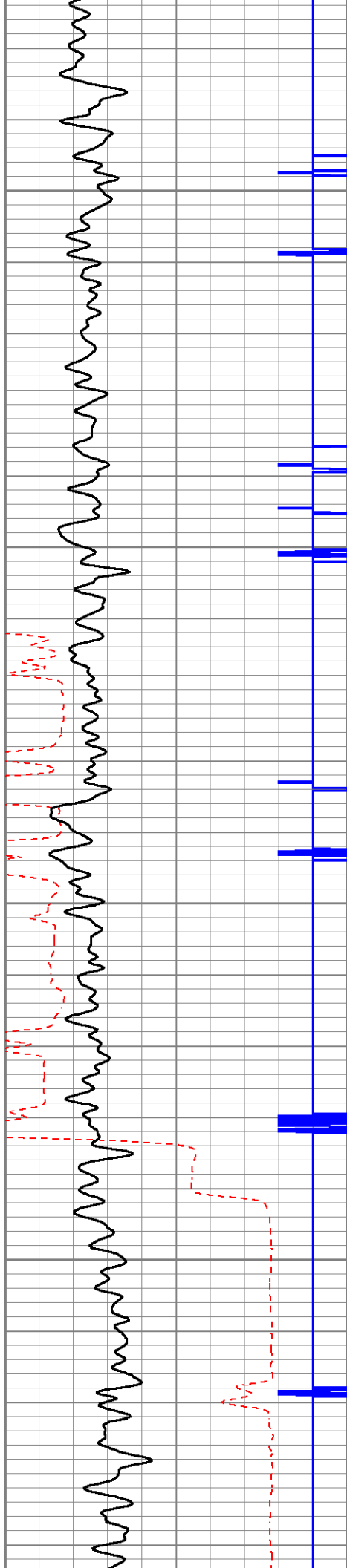
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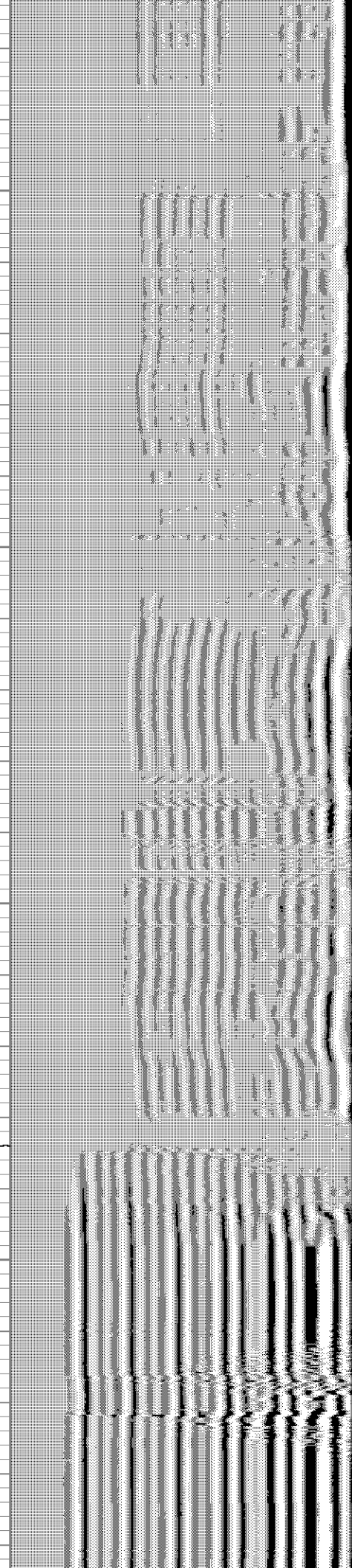
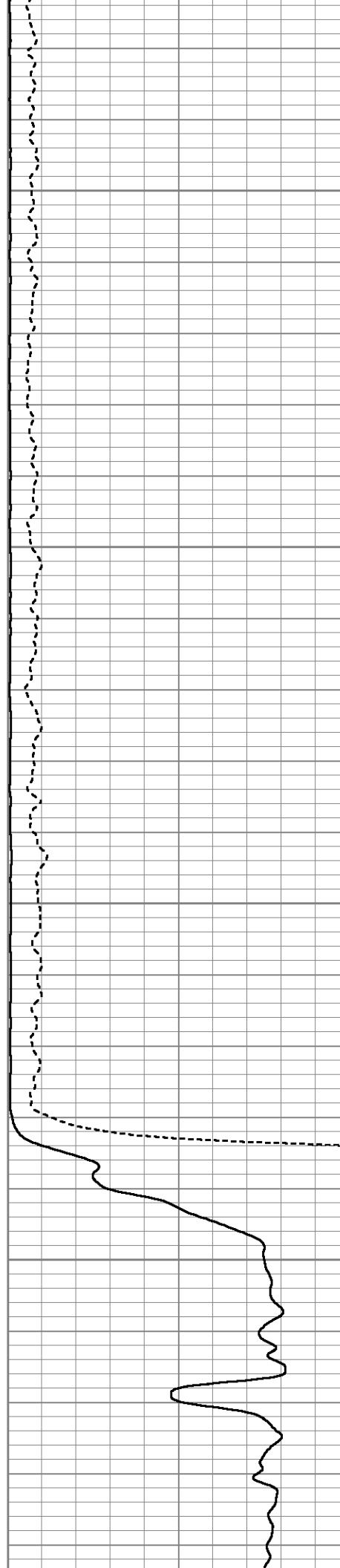


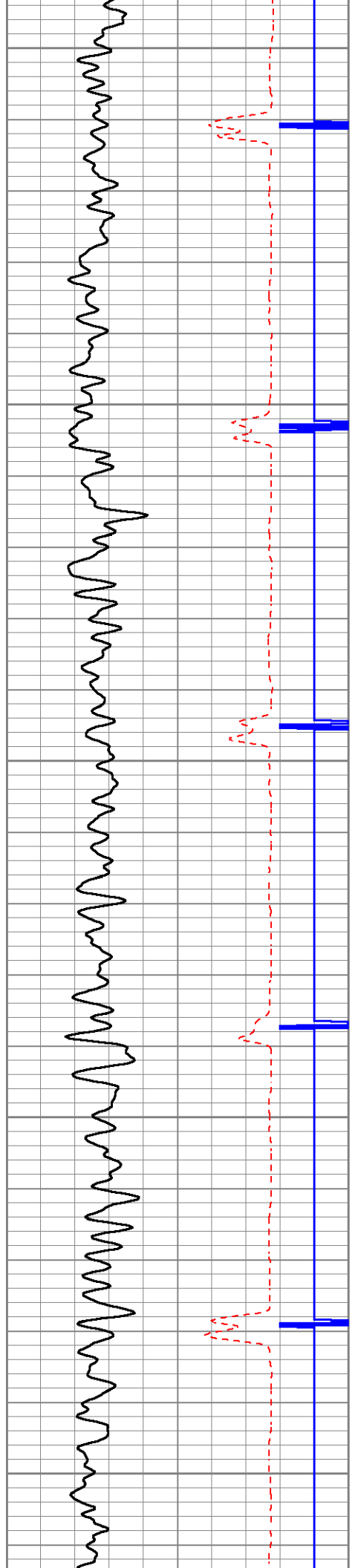
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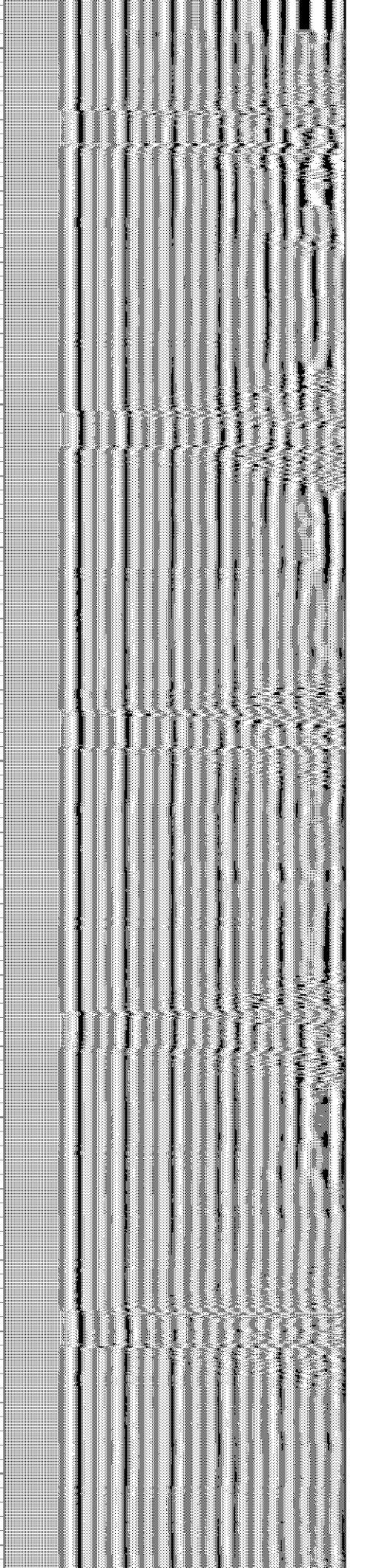
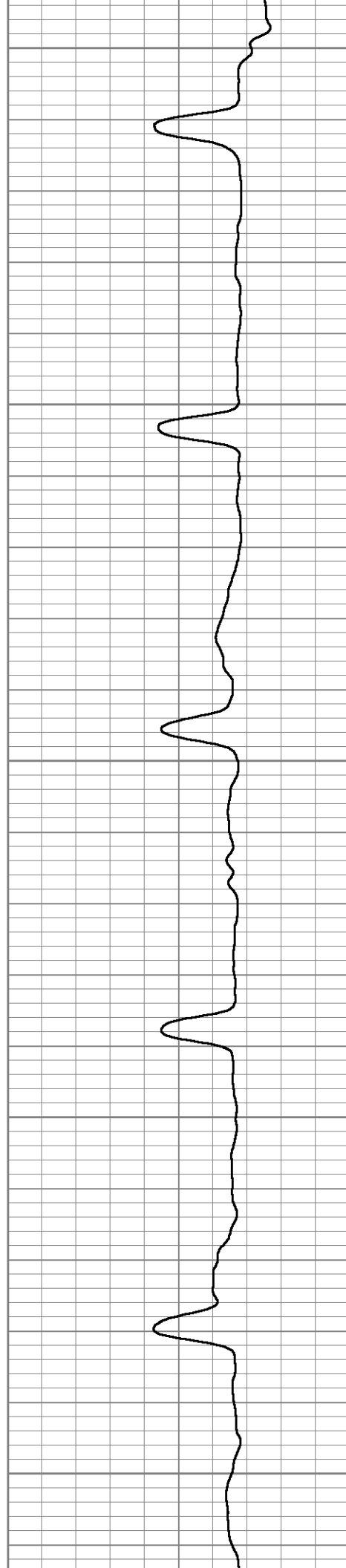
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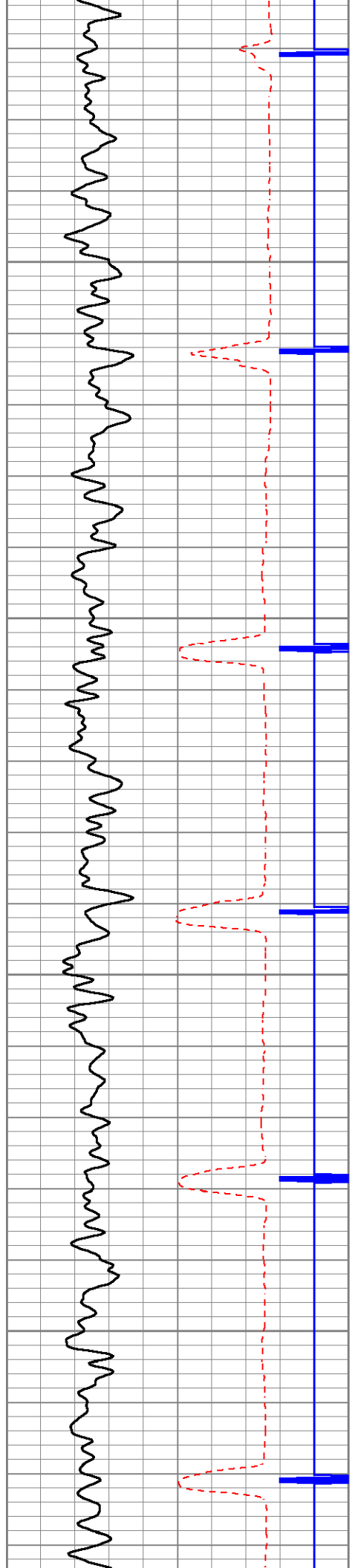
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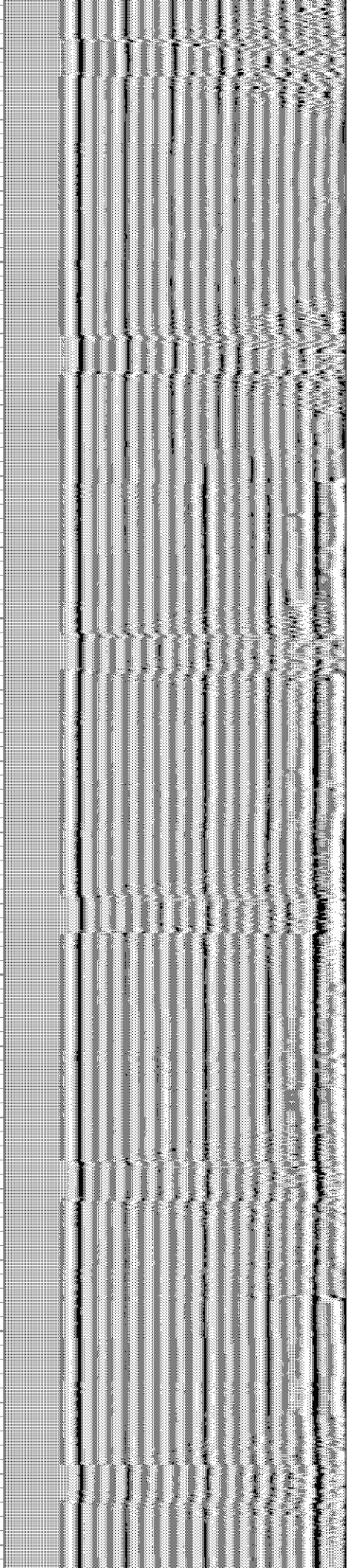
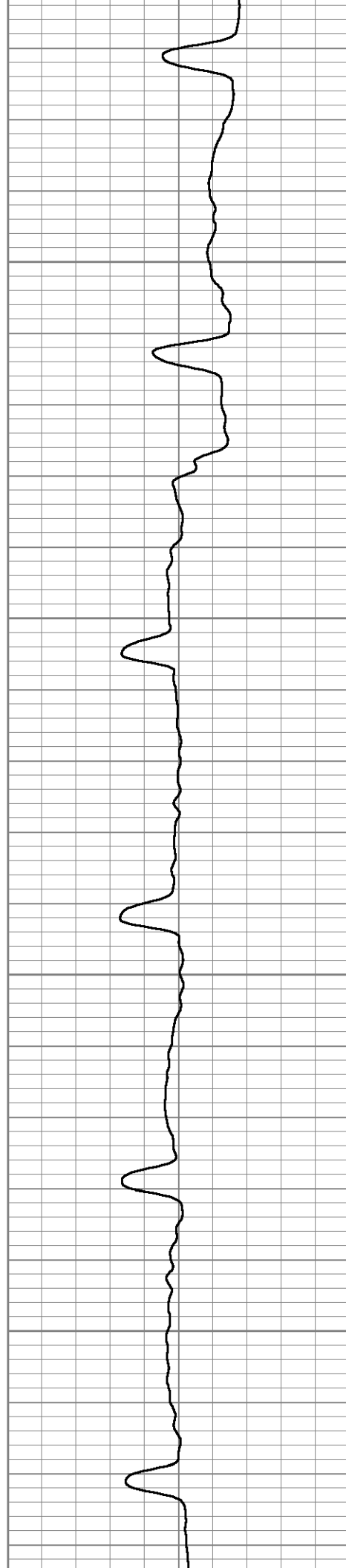


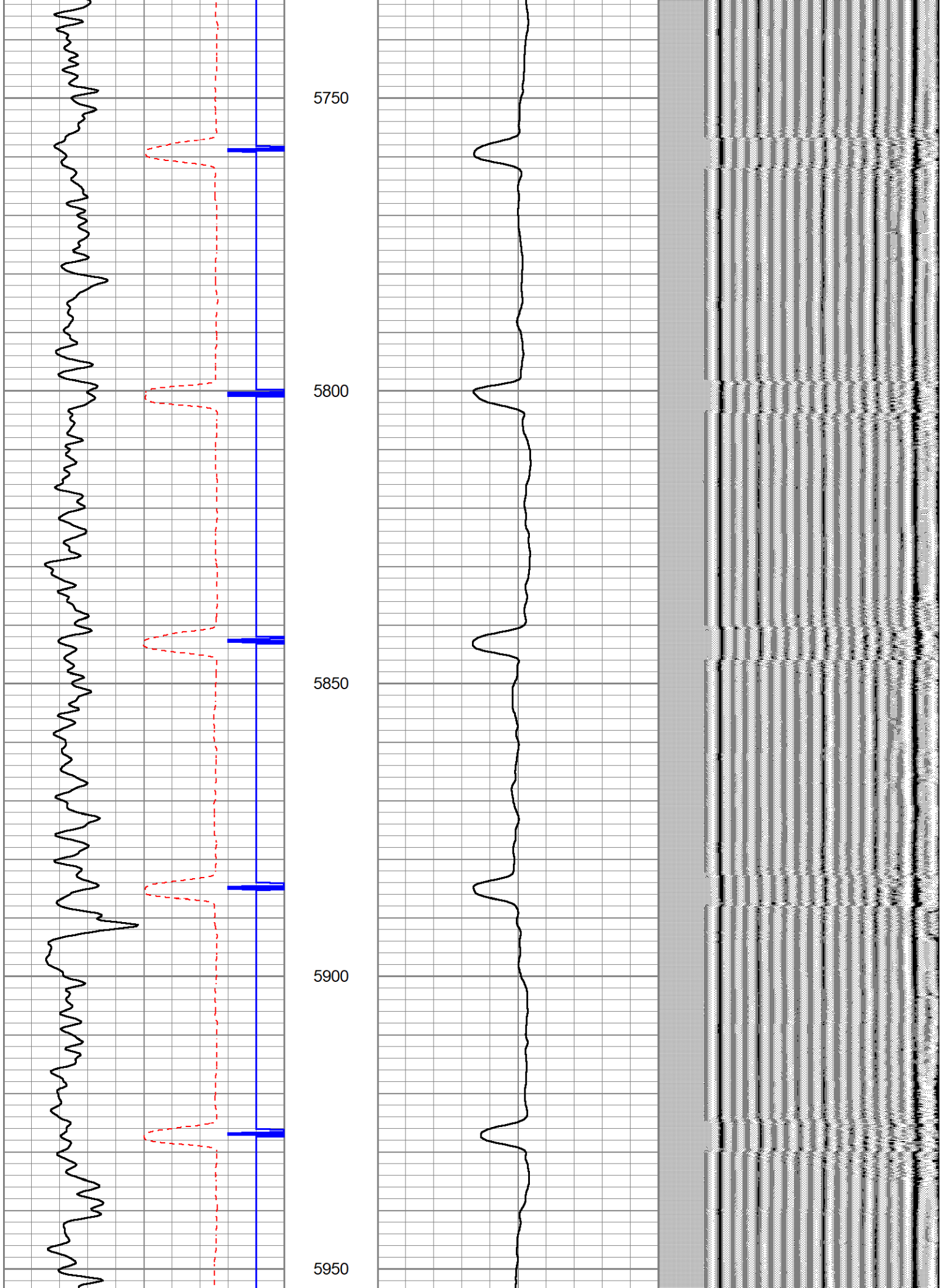
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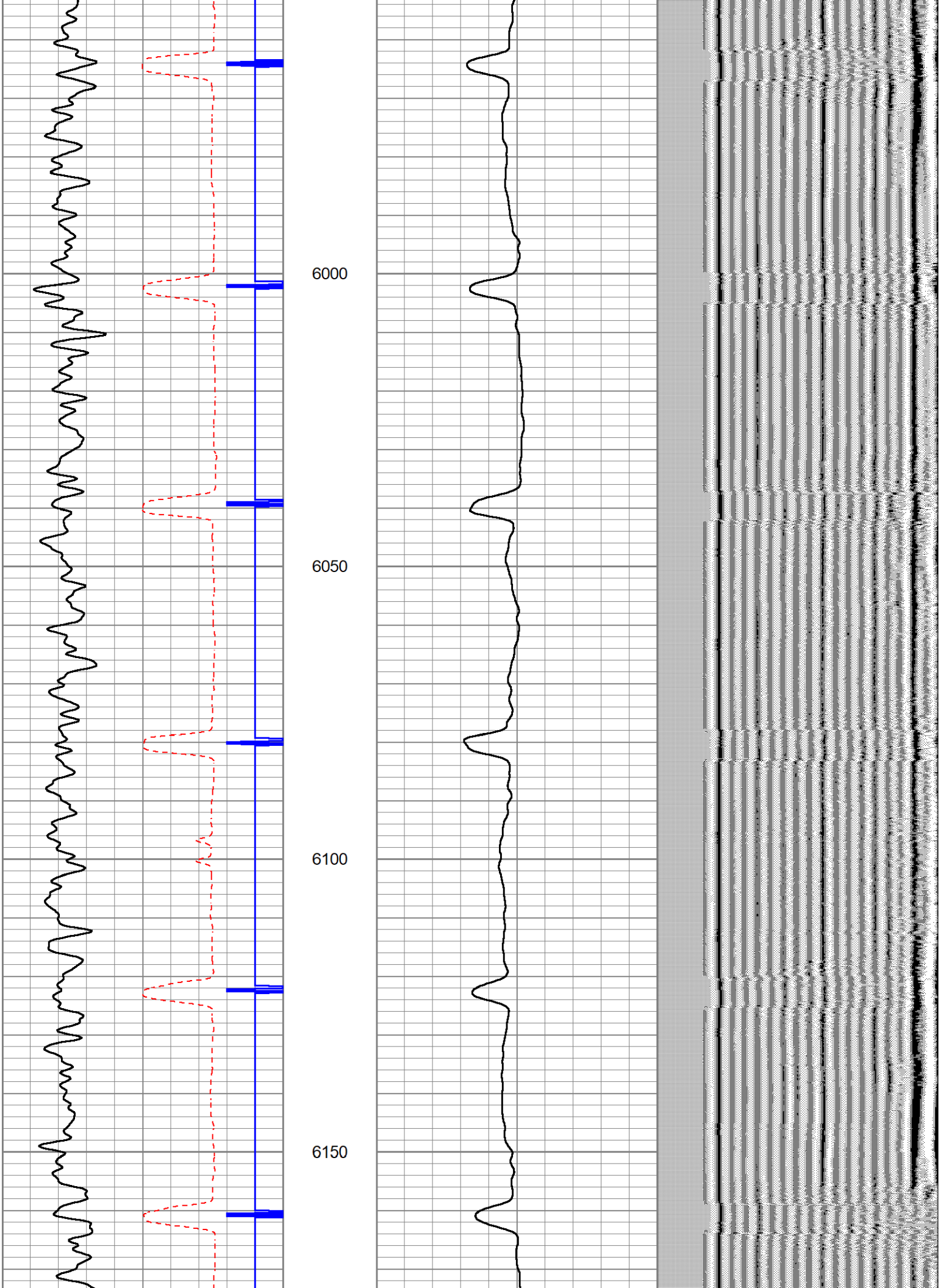
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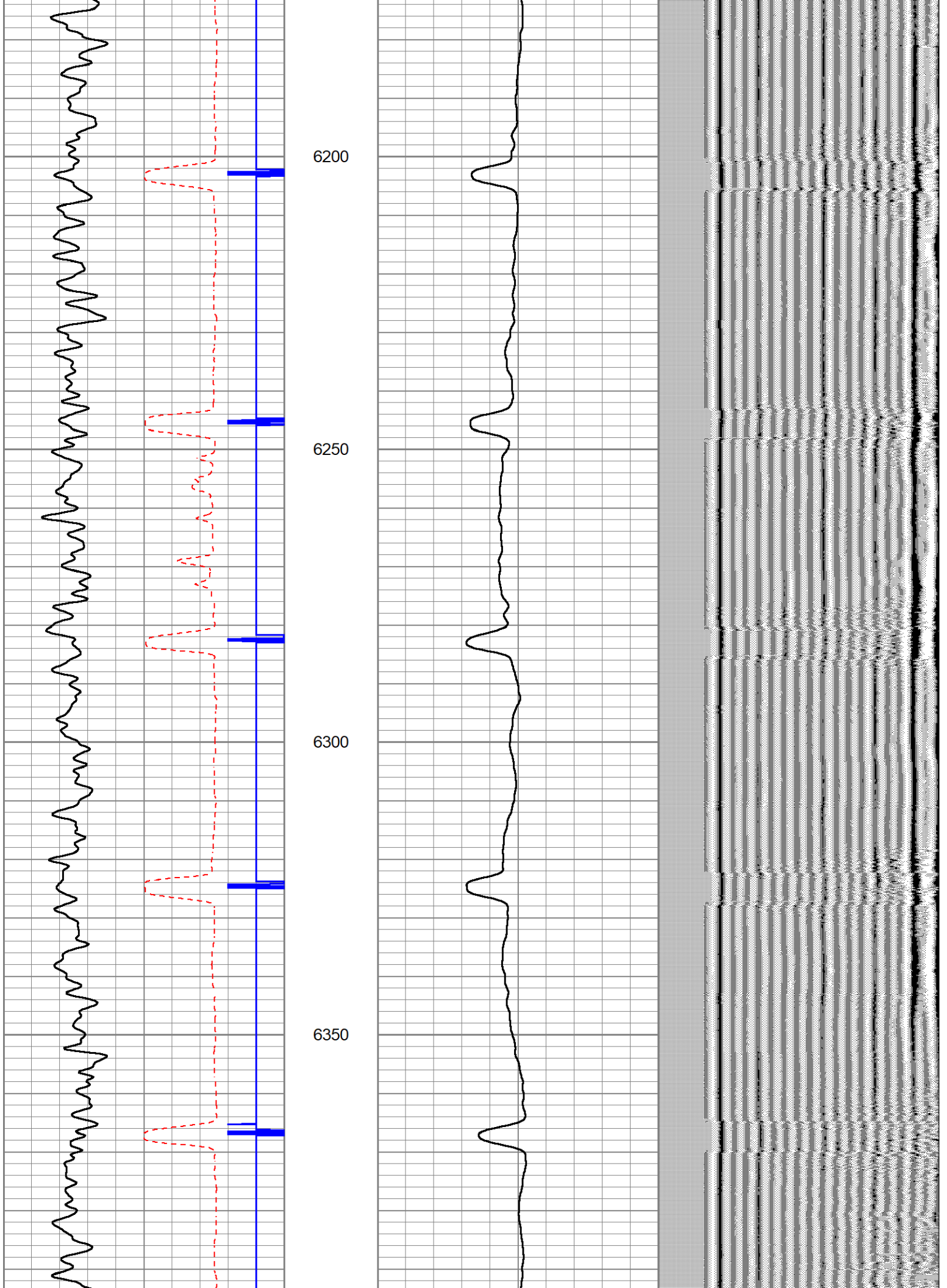
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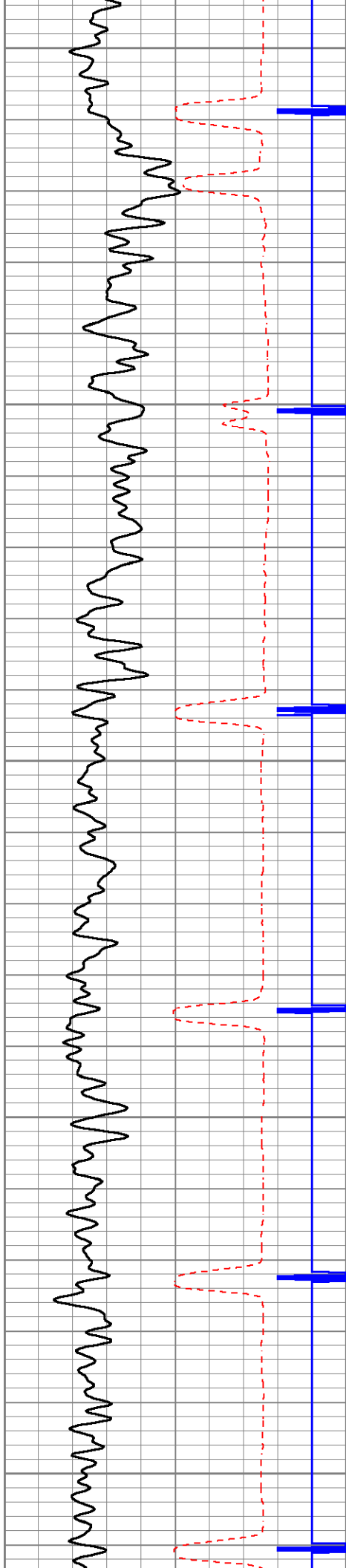
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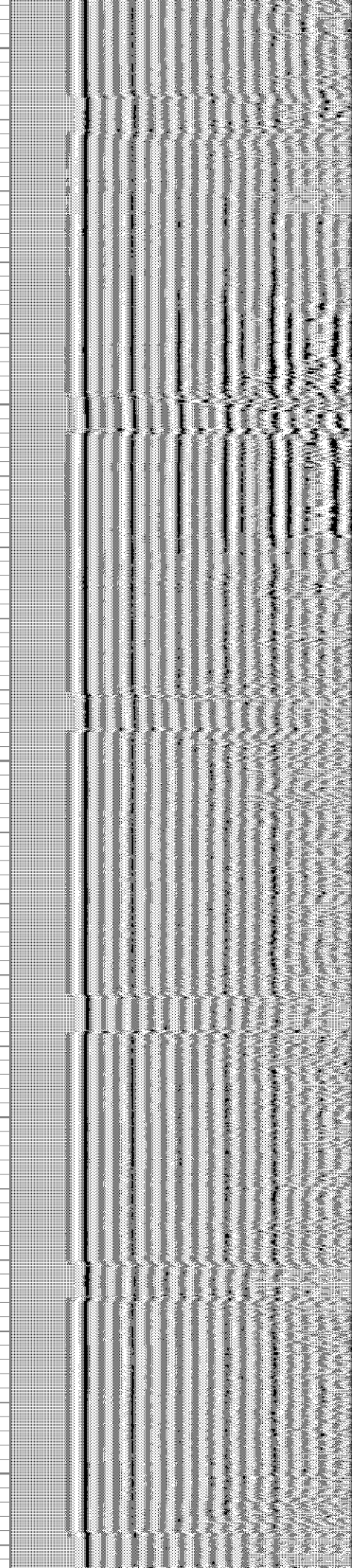
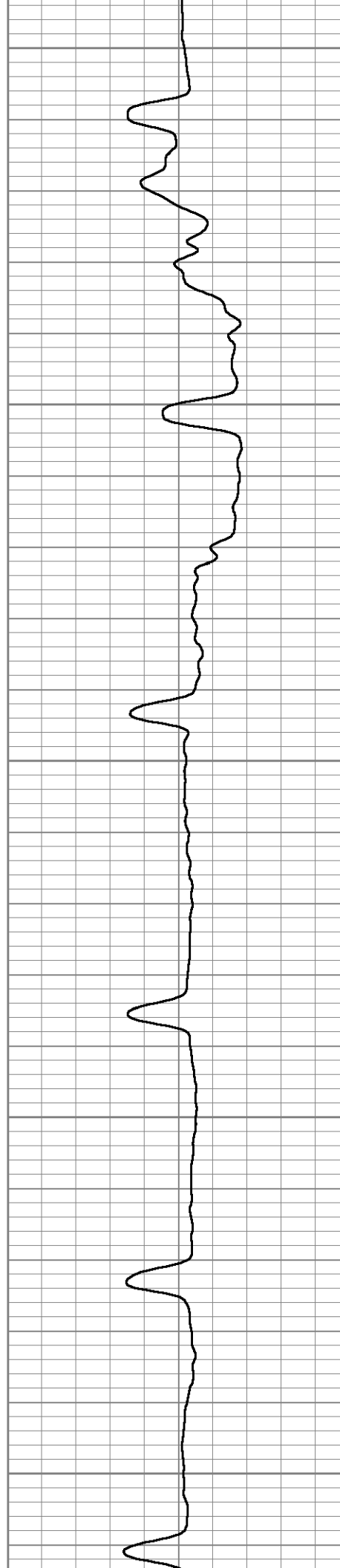
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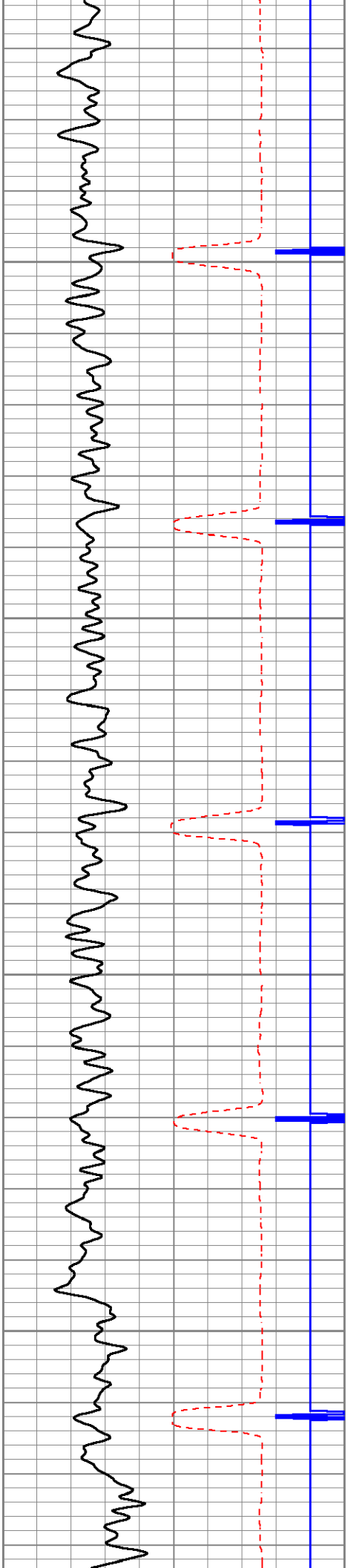
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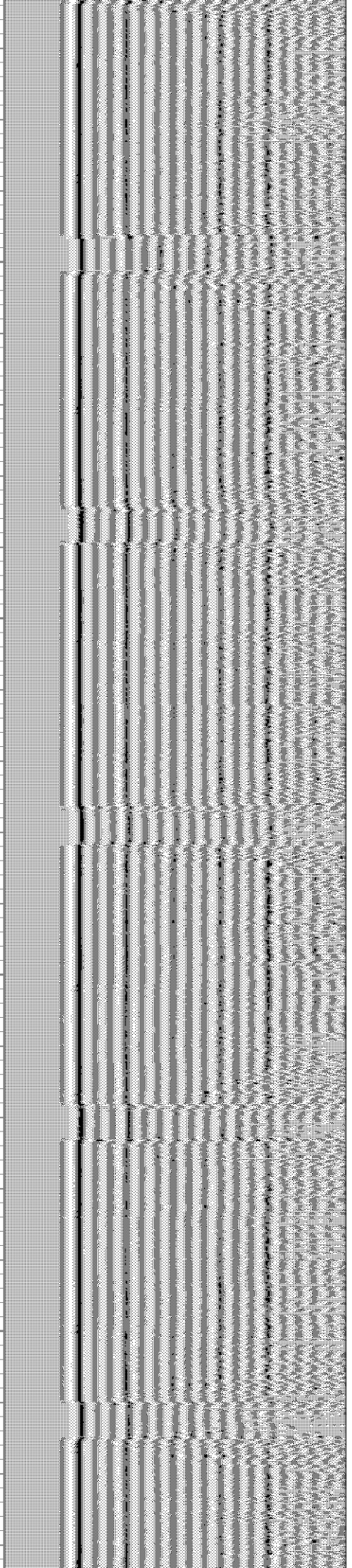
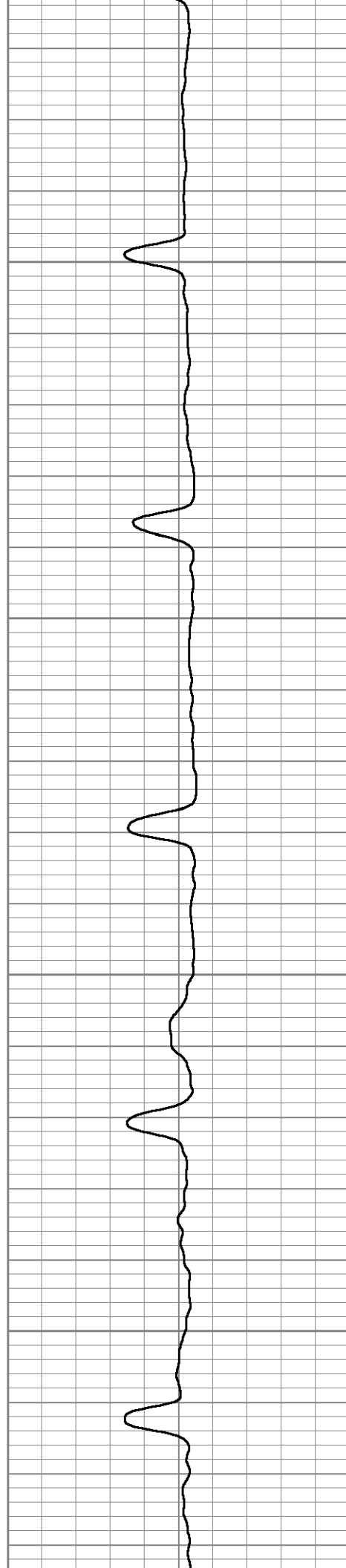


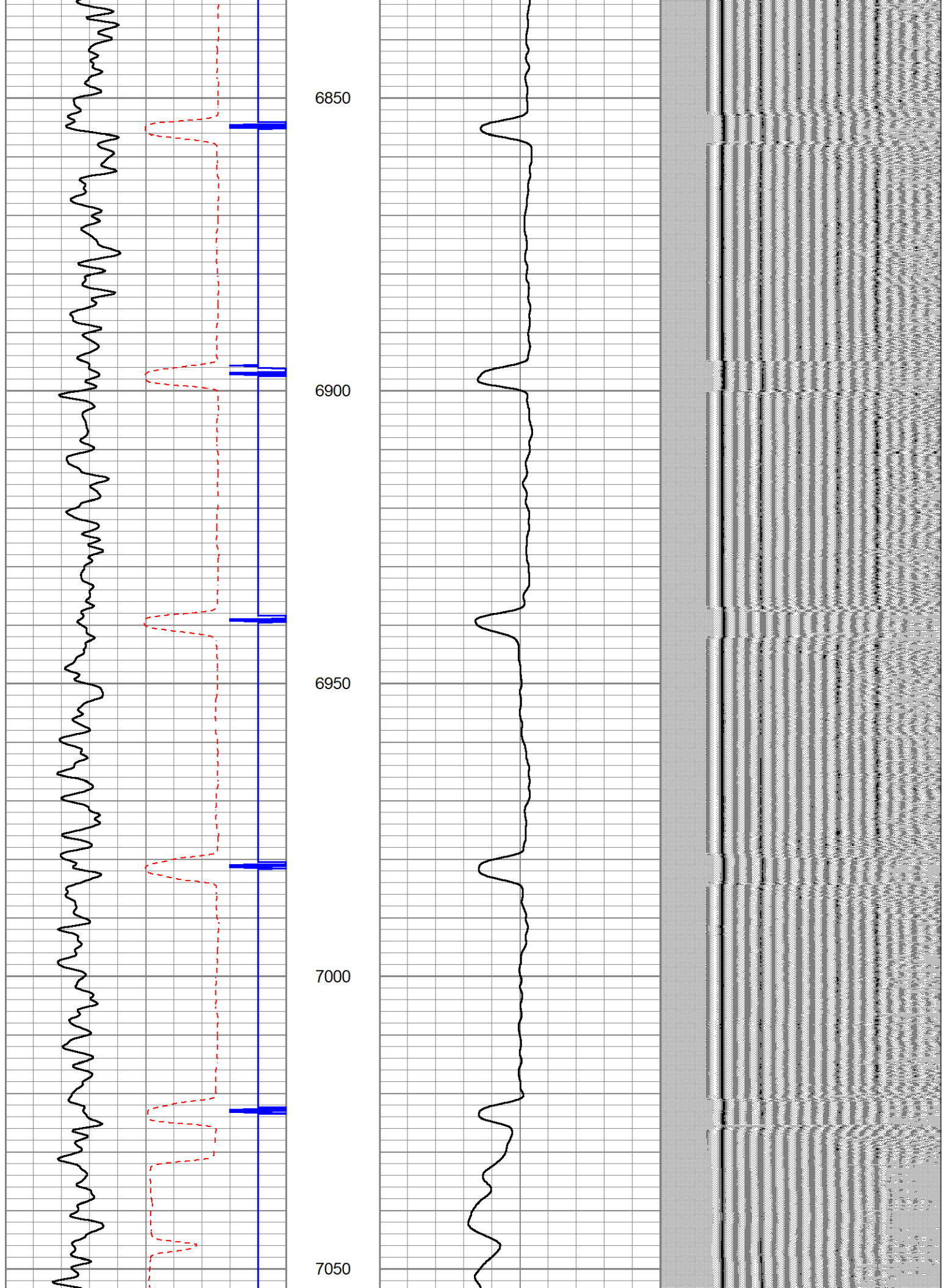
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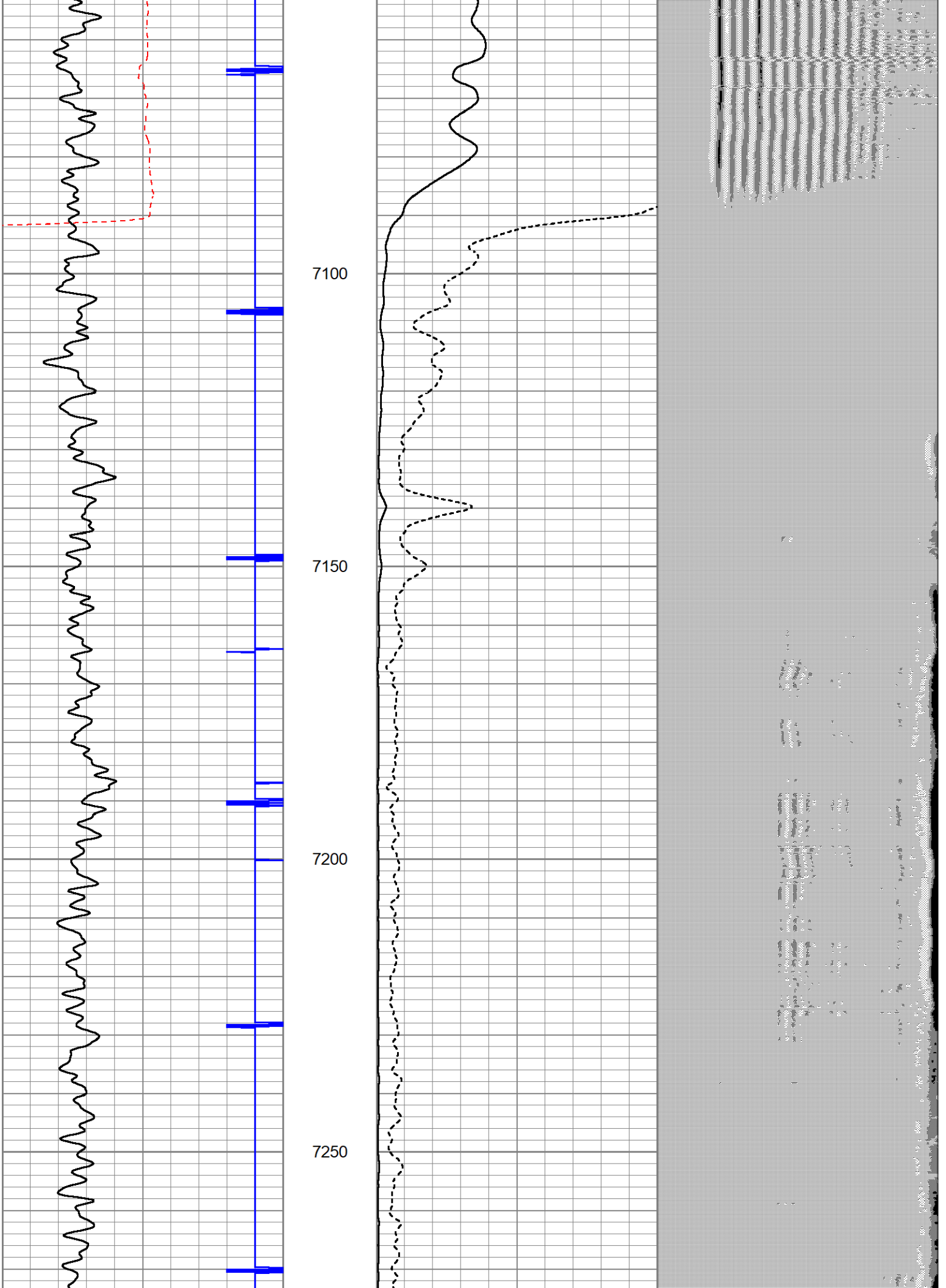
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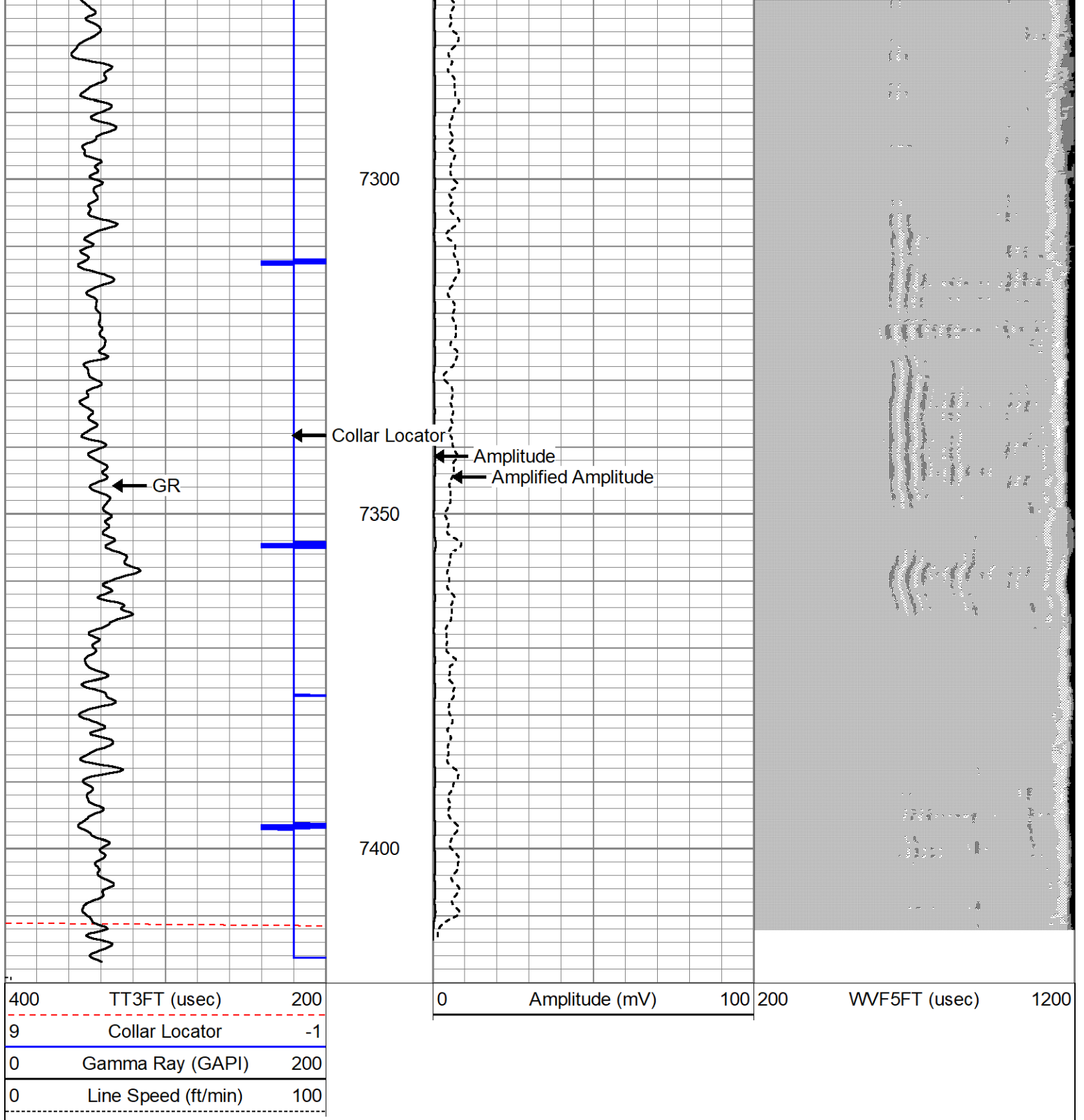
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6800









### Calibration Report

Database File wyman 33-6 .db  
 Dataset Pathname MAIN\_PASS  
 Dataset Creation Wed Feb 20 17:56:32 2019

### Gamma Ray Calibration Report

Serial Number: FW1211-86  
 Tool Model: Probe  
 Performed: Mon Feb 03 13:18:32 2014

Calibrator Value: 1.0 GAPI  
 Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps  
 Sensitivity: 0.8000 GAPI/cps


Cement Bond Calibration Report

Serial Number: 080310  
 Tool Model: Probe275Digital  
 Calibration Casing Diameter: 4.500 in  
 Calibration Depth: 5291.067 ft

Master Calibration, performed Wed Feb 20 17:46:22 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.537	0.700	81.196	150.905	0.149
5'	0.014	0.496	0.700	81.196	166.795	-1.605

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
			CENT-Probe275 2.75" Centralizer	2.88	2.75	36.00
WVF3FT	8.83		CBL-Probe275Digital (080310) Digital 3' 5' CBL Move voltage to +/- 150 for cal mode	9.20	2.75	100.00
WVF5FT	7.83					

CCL	3.64		GR-Probe (FW1211-86) Probe 2 3/4" Logging Gamma Ray GO Pin	4.58	2.75	57.00
GR	0.90					

Dataset: wyman 33-6 .db: field/well/run1/MAIN\_PASS  
 Total length: 17.66 ft  
 Total weight: 198.00 lb  
 O.D.: 2.75 in