



CEMENT BOND LOG GAMMA RAY / CCL

Company SANDRIDGE ENERGY		Country U.S.A.					
Well MUTUAL 7-17H		Company SANDRIDGE ENERGY					
Field NORTH PARK		Well MUTUAL 7-17H					
County JACKSON		Field NORTH PARK					
State COLORADO		County JACKSON					
Location: 277' FNL & 790' FEL		State COLORADO					
Permanent Datum G.L.		Country U.S.A.					
Log Measured From K.B.		Other Services					
Drilling Measured From K.B.		NONE					
SEC 17 TWP N RGE 80W		Elevation					
		K.B. 8171'					
		D.F. 8170'					
		G.L. 8150'					
Date 2-13-2016							
Run Number ONE							
Depth Driller 6220'							
Depth Logger 6015'							
Bottom Logged Interval 6000'							
Top Log Interval SURFACE							
Open Hole Size N/A							
Type Fluid WATER							
Density / Viscosity N/A							
Max. Recorded Temp. N/A							
Estimated Cement Top							
Time Well Ready 7:00AM							
Time Logger on Bottom 11:15AM							
Equipment Number 41							
location JOHNSTOWN							
Recorded By WILLIAMS							
Witnessed By							
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size		Wgt/Ft		Top		Bottom
Surface String	9 5/8"		36#		SURFACE		1046'
Prot. String							
Production String	7"		26#		SURFACE		6647'
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

NOTE: THIS LOG WAS CORRELATED TO MUTUAL 07-17H RAN NOV. 2008 BY PERFLOG

MAIN PASS: 5" = 100'
CSG PSI: STATIC

Calibration Report

Database File: muataul17-7h.db
Dataset Pathname: DOWN/pass1
Dataset Creation: Sat Feb 13 09:11:09 2016 by Log Std Casedhole 10081

Serial Number:	080222	
Tool Model:	Probe	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report

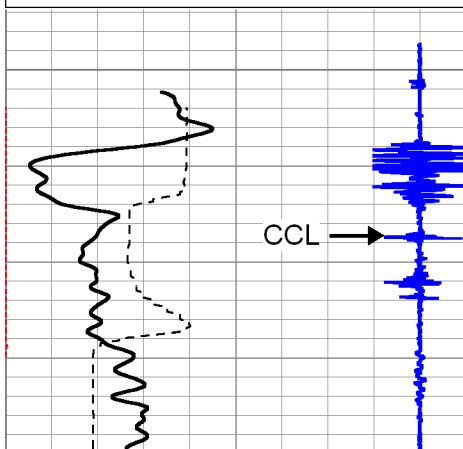
Serial Number:	081036		
Tool Model:	Digital		
Performed:	Sat Feb 13 09:10:40 2016		
Depth:	21	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.5	0.5	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.0150391	0.00773926	V
Reading in Free Pipe:	0.551538	0.50647	V
Gain:	133.124	143.206	
Offset:	-1.50206	-0.608305	



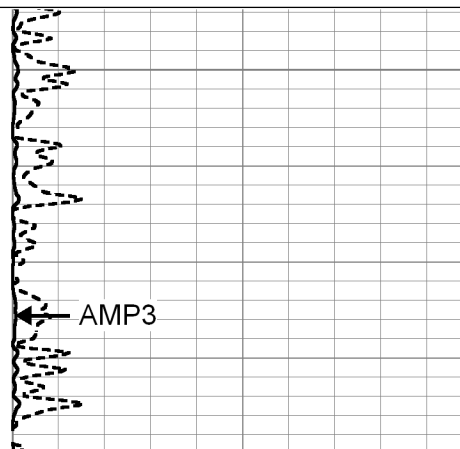
MAIN PASS

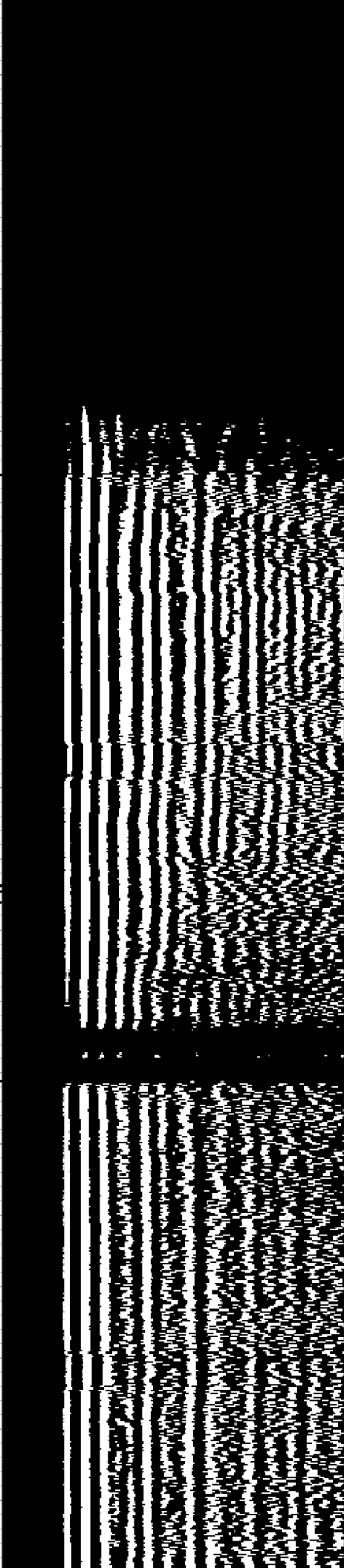
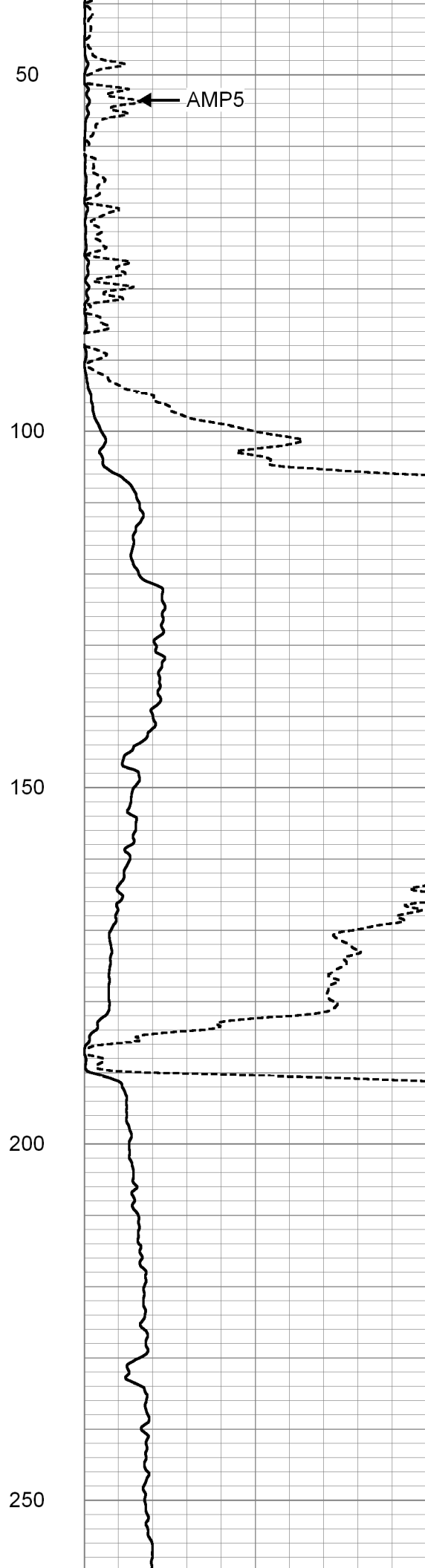
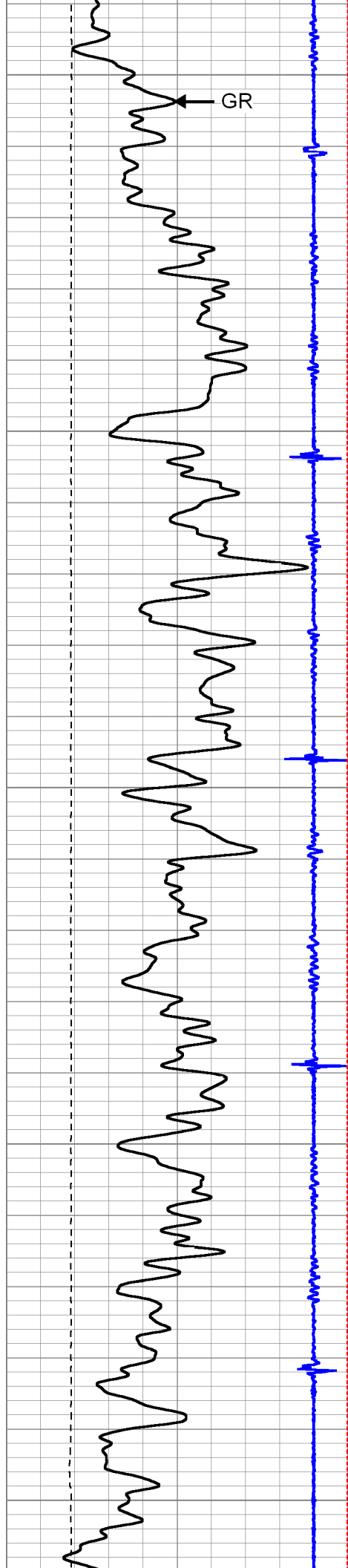
Database File: muataul17-7h.db
Dataset Pathname: MAIN/merge2
Presentation Format: cblww
Dataset Creation: Sat Feb 13 13:03:20 2016
Charted by: Depth in Feet scaled 1:240

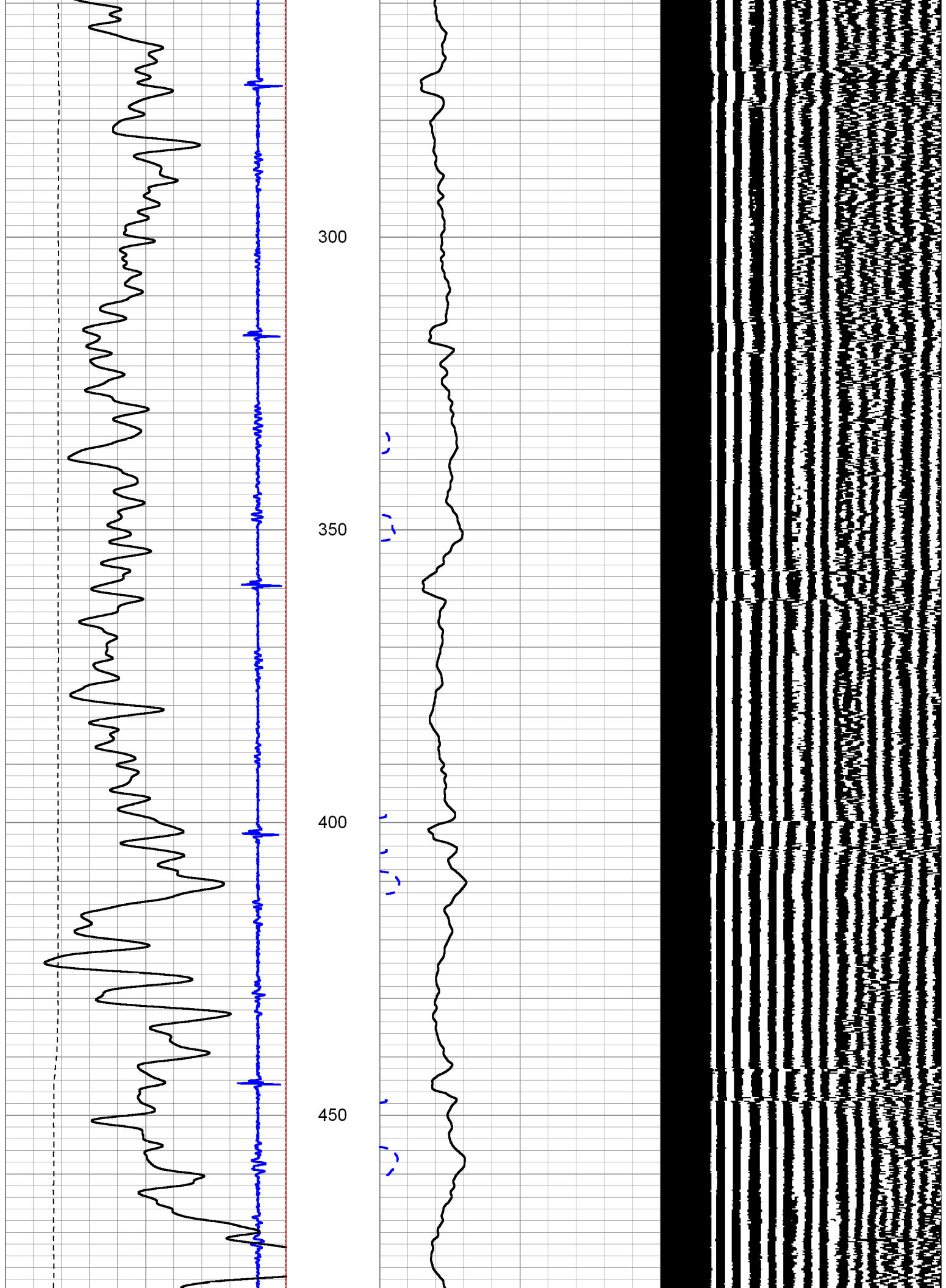
90	Collar Locator	-10	0	Amplified Amplitude (mV)	10	200	Variable Density	1200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	100			
-100	Line Speed (ft/min)	100	282	Travel Time (usec)	182			
0	LTEN (lb)	5000						

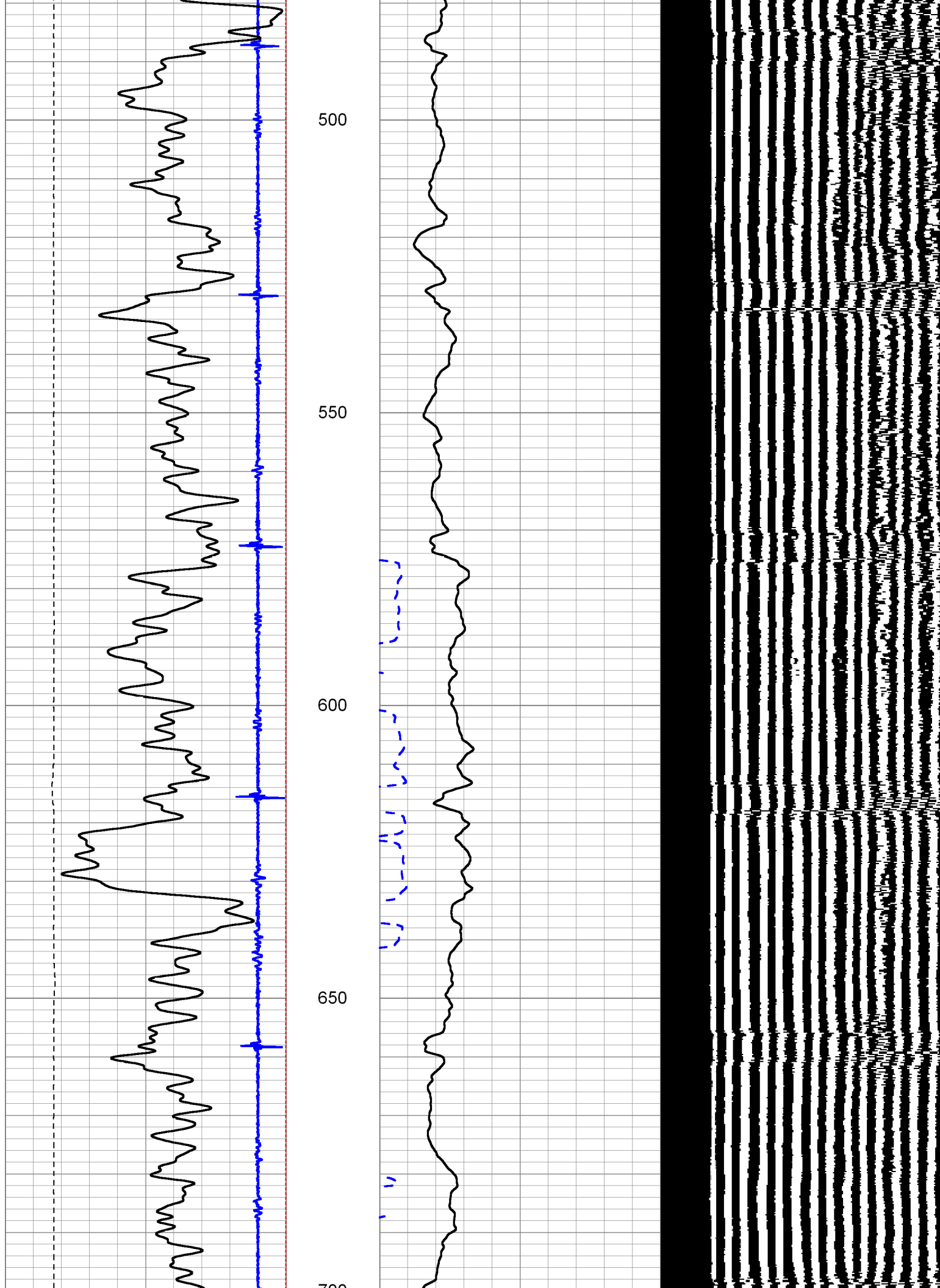


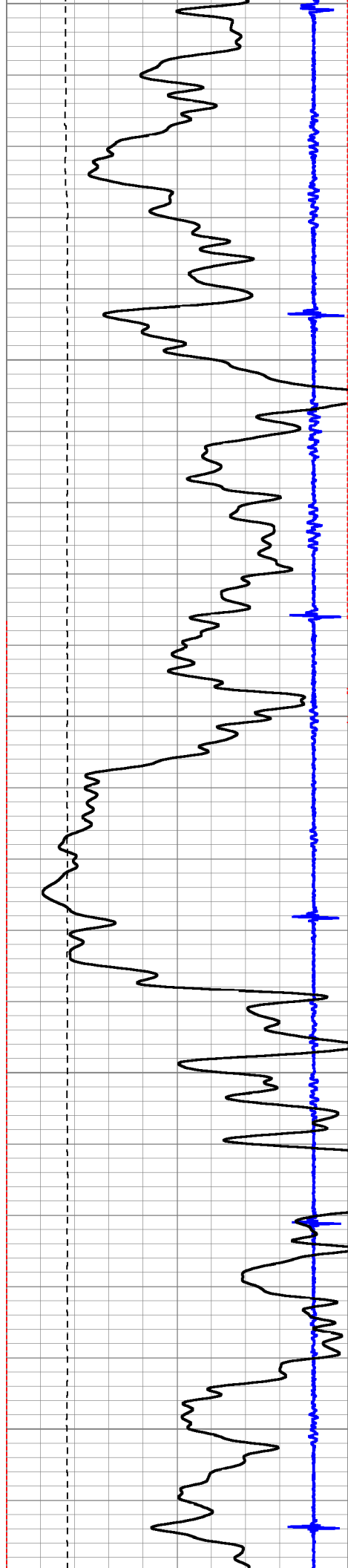
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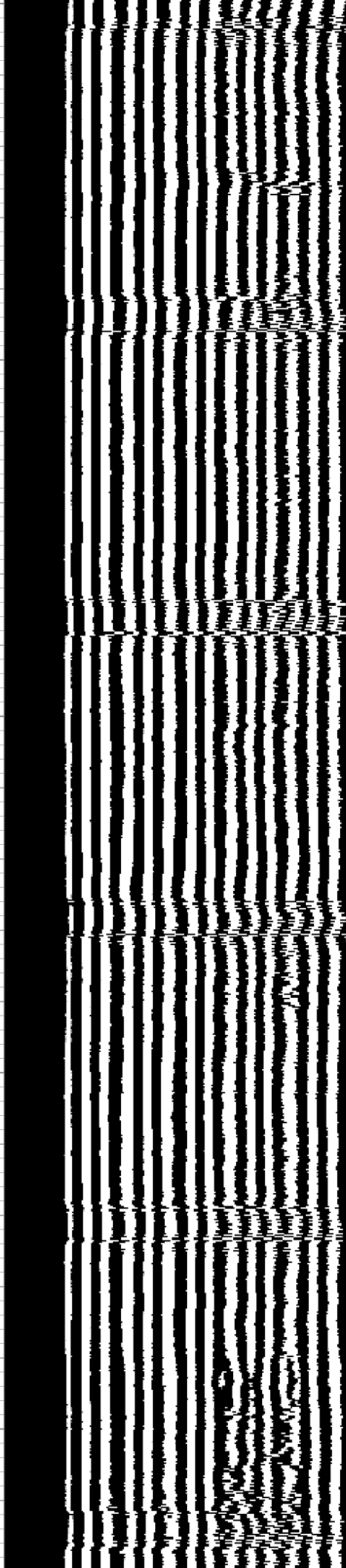
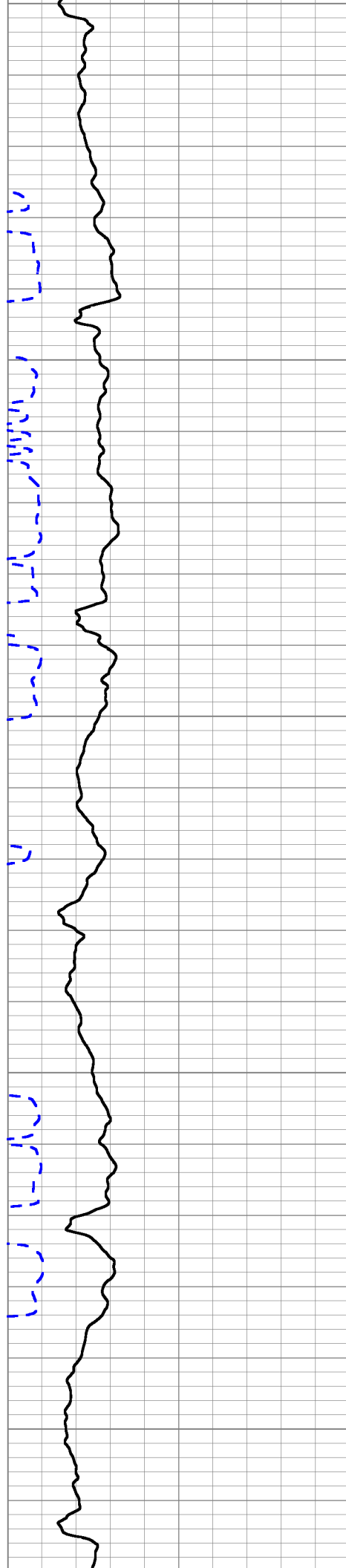
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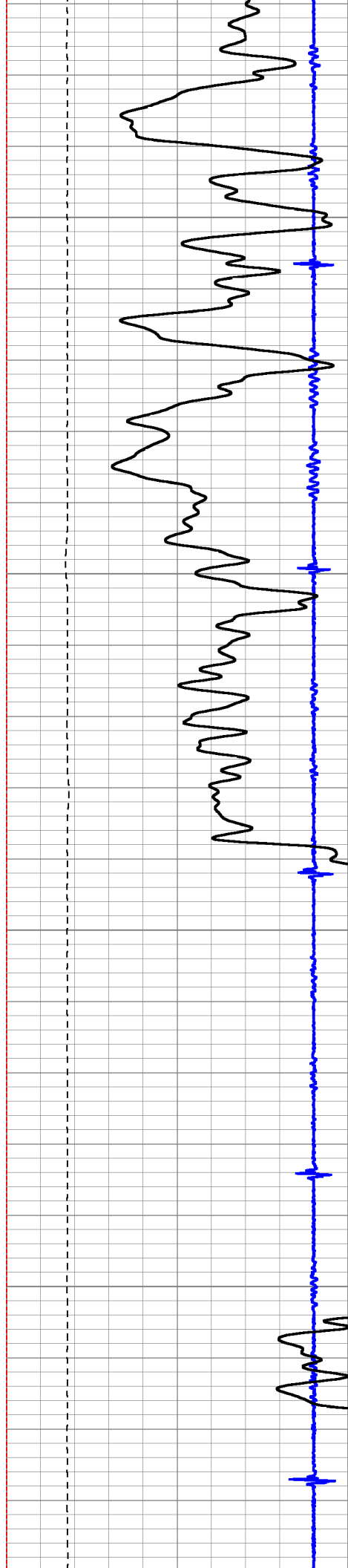
750

800

850

900



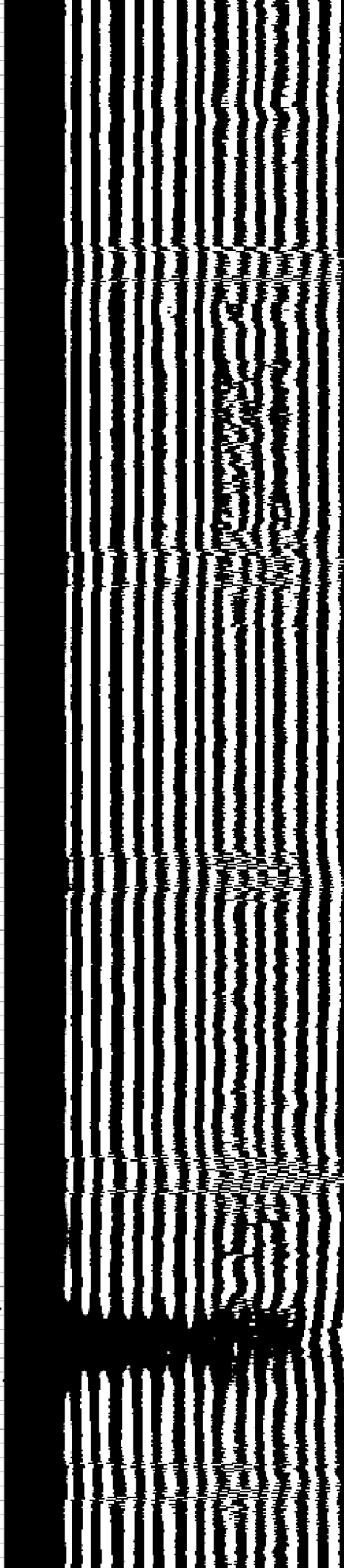
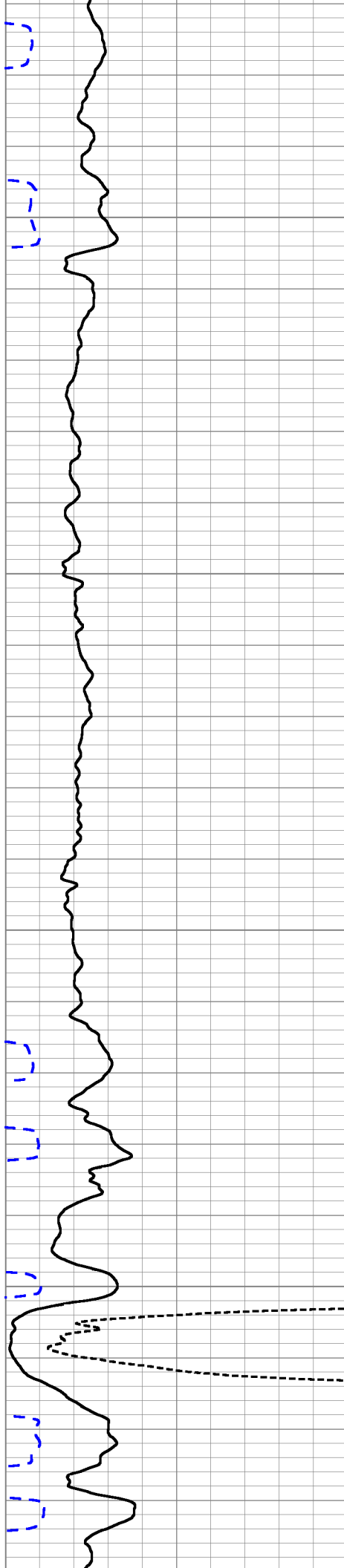


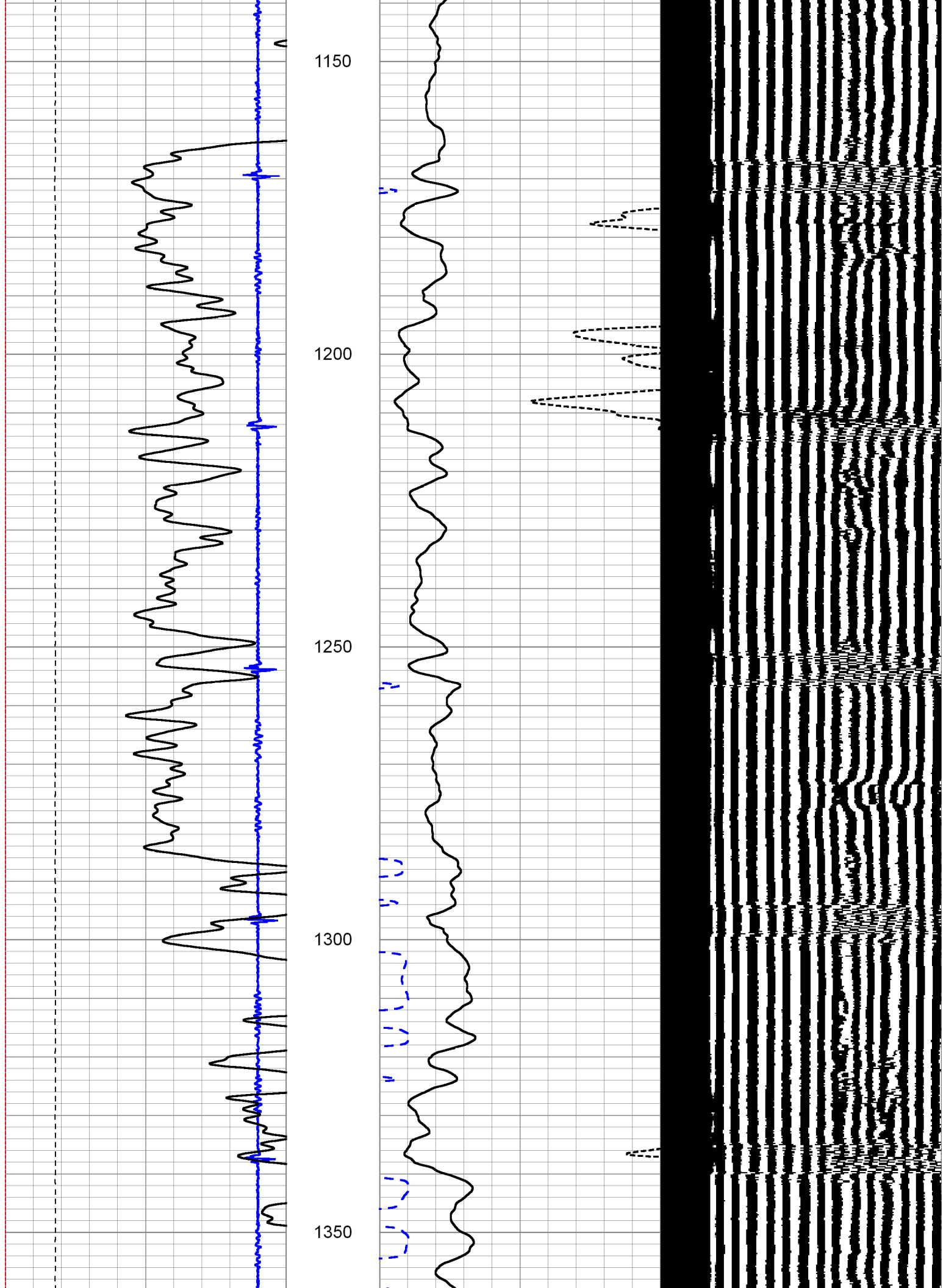
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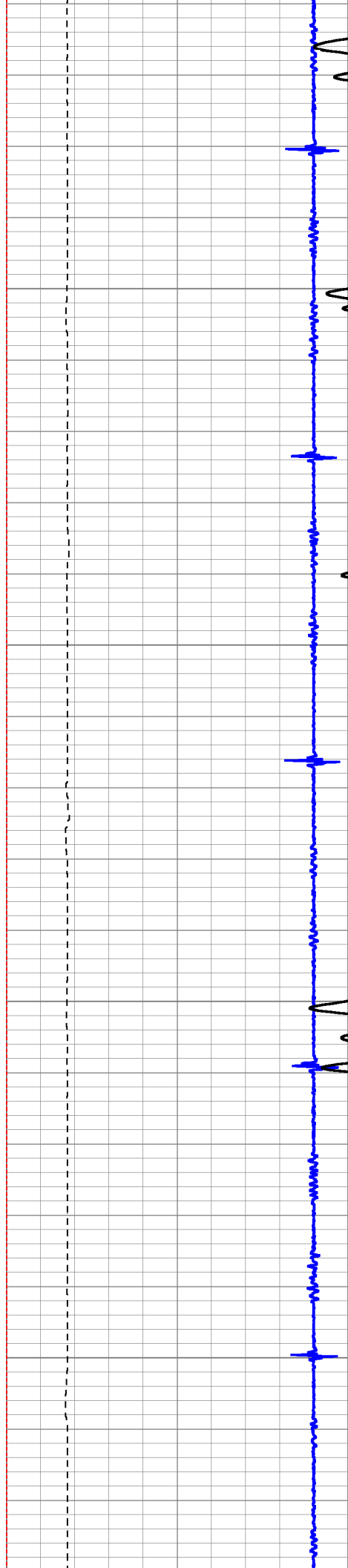
1000

1050

1100





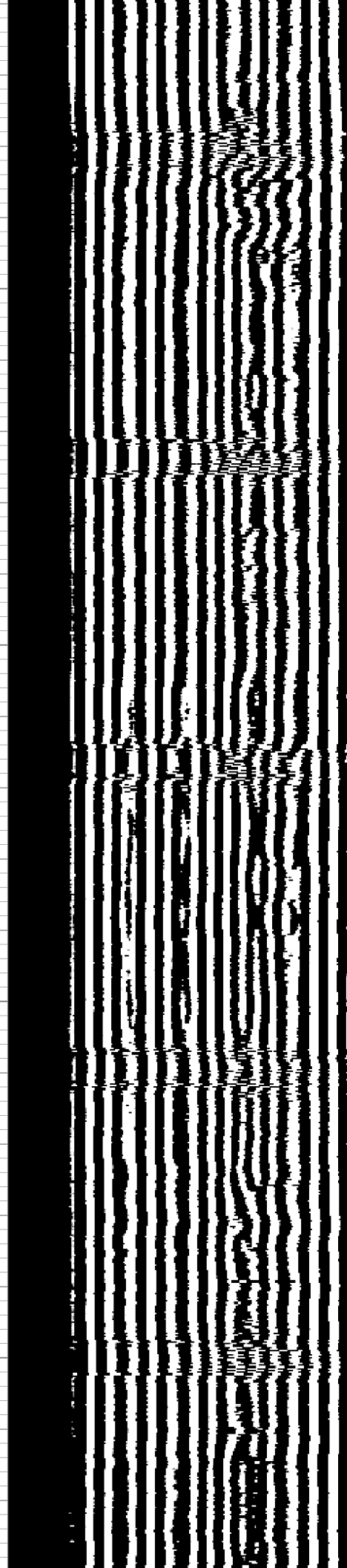
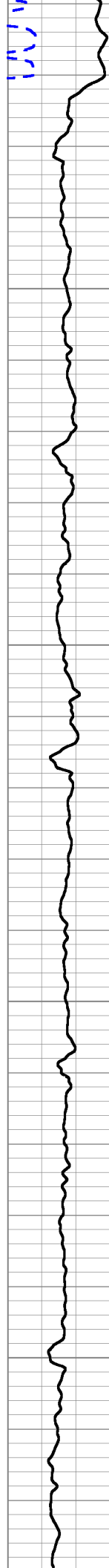


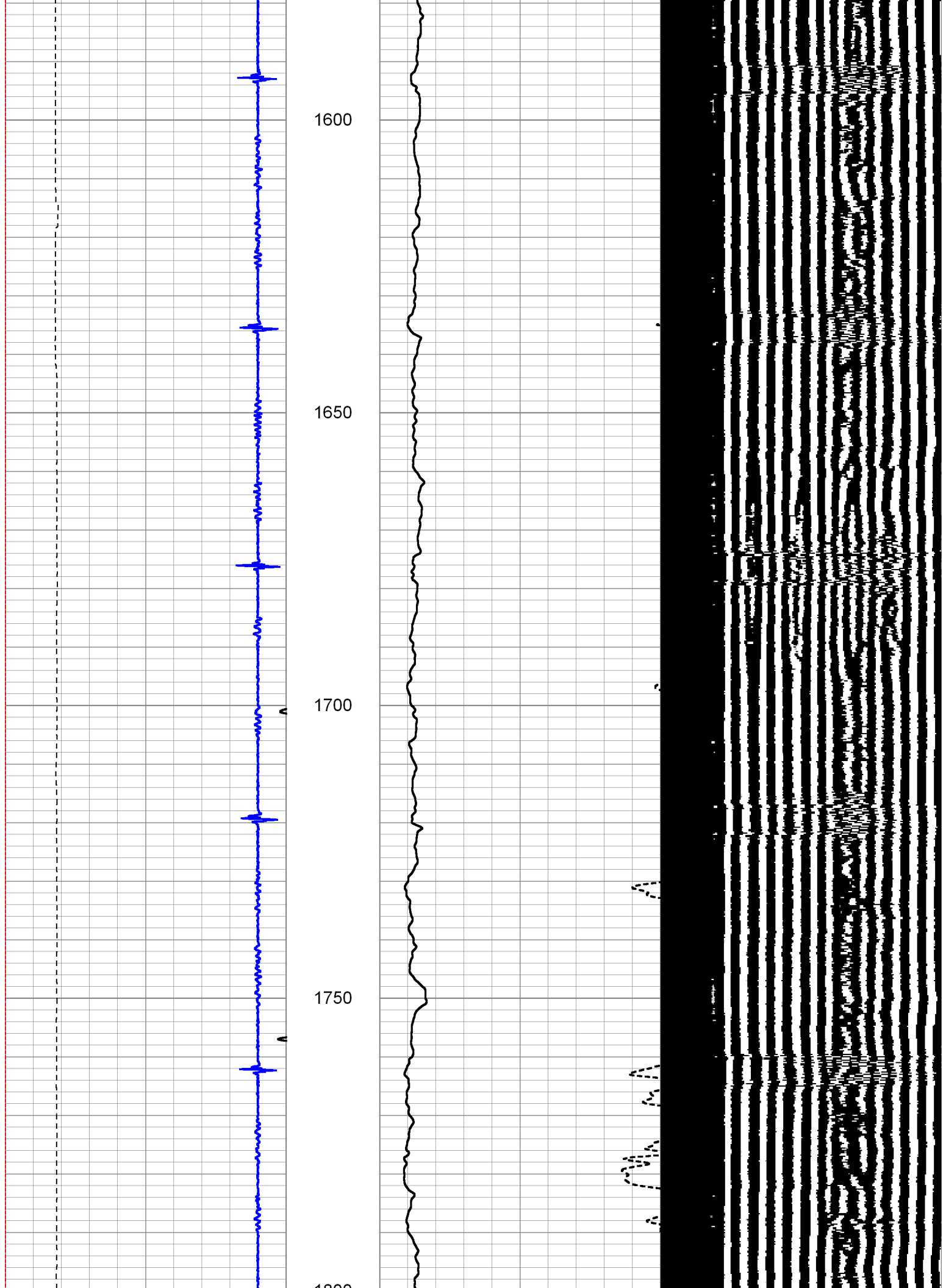
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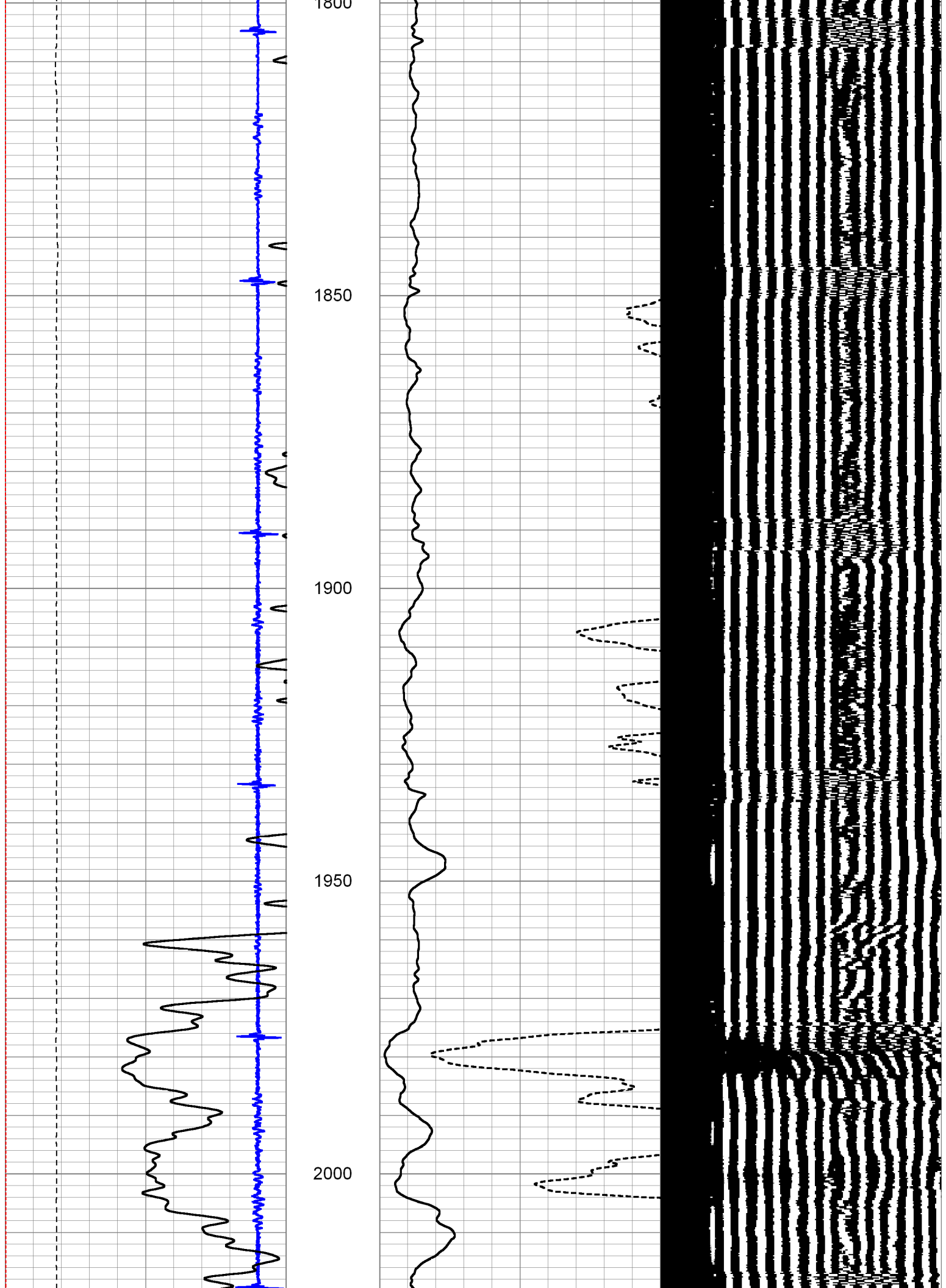
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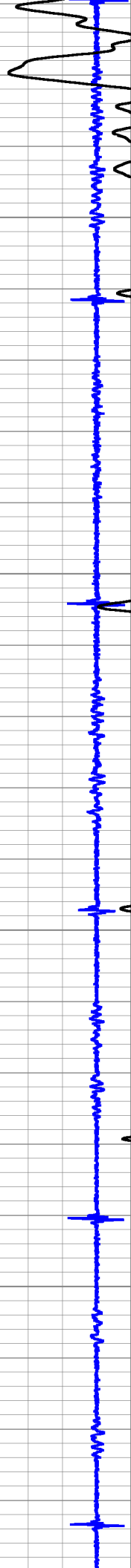
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1550







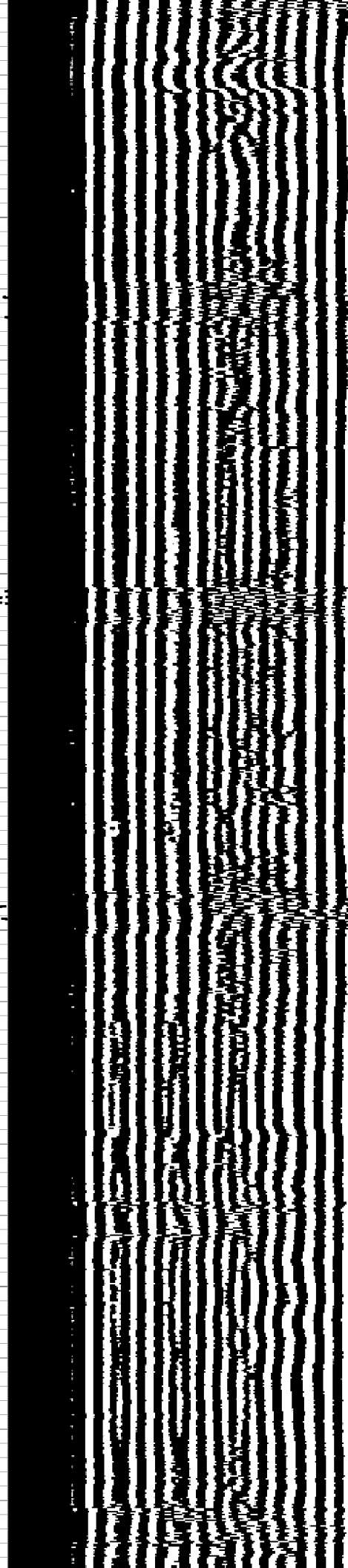
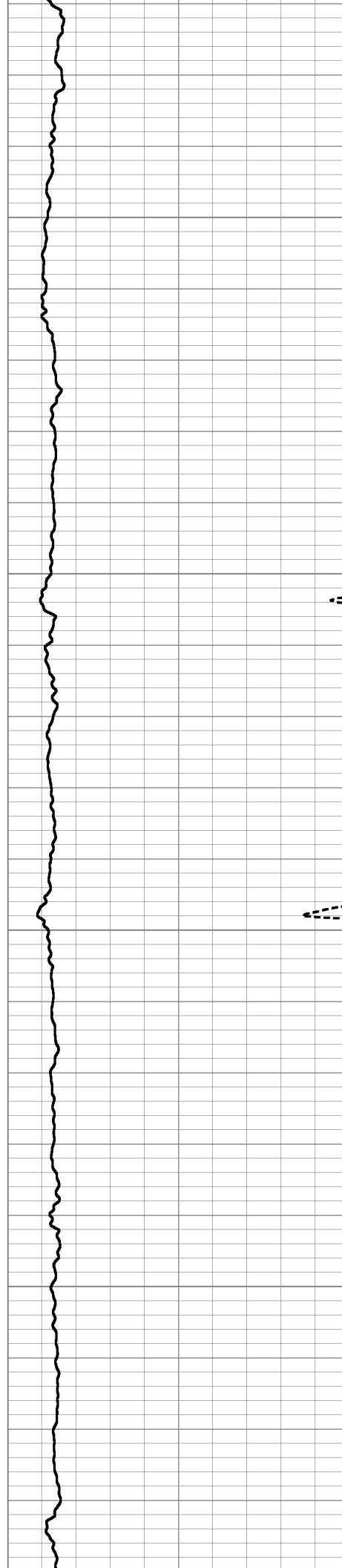


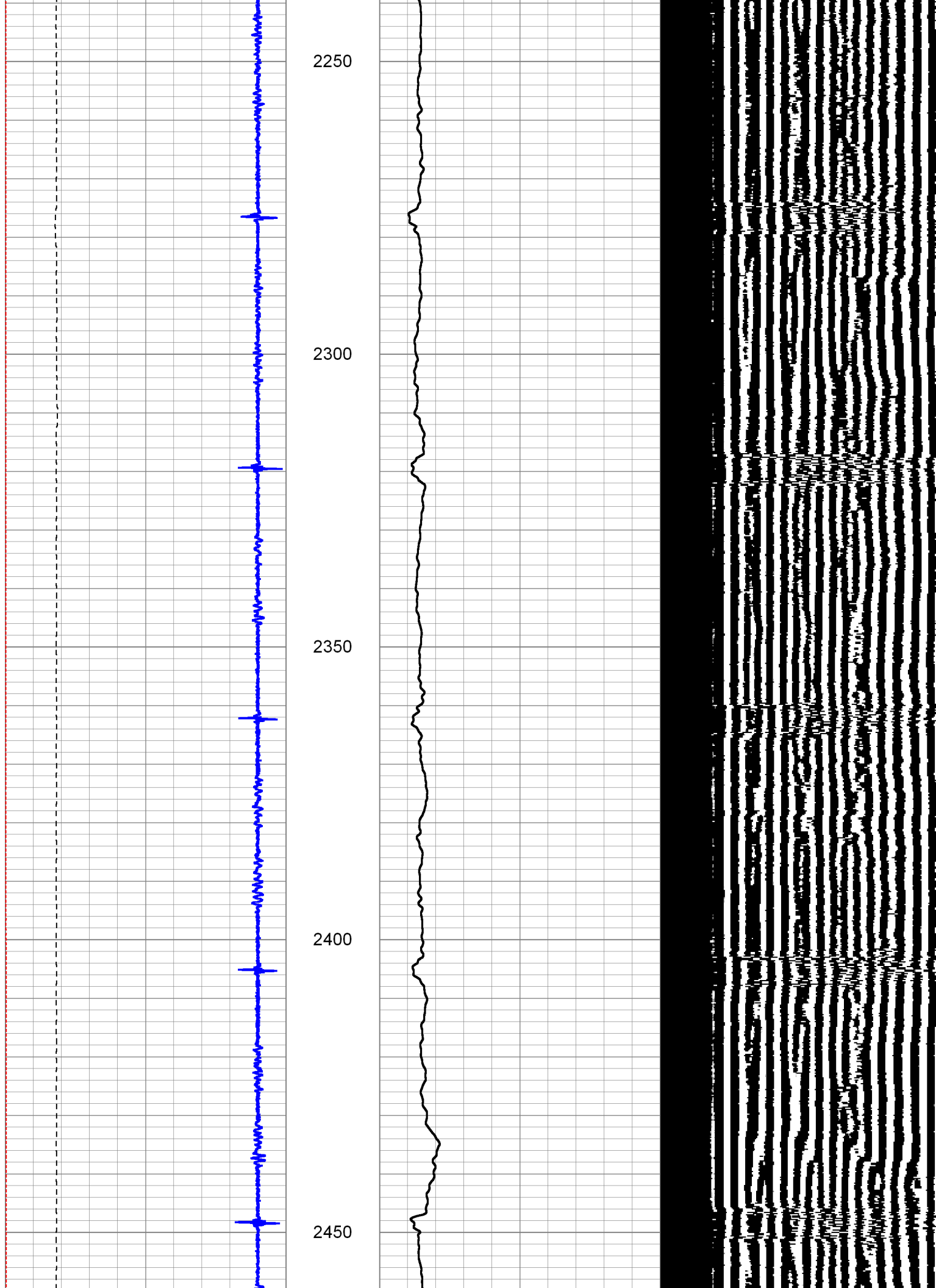
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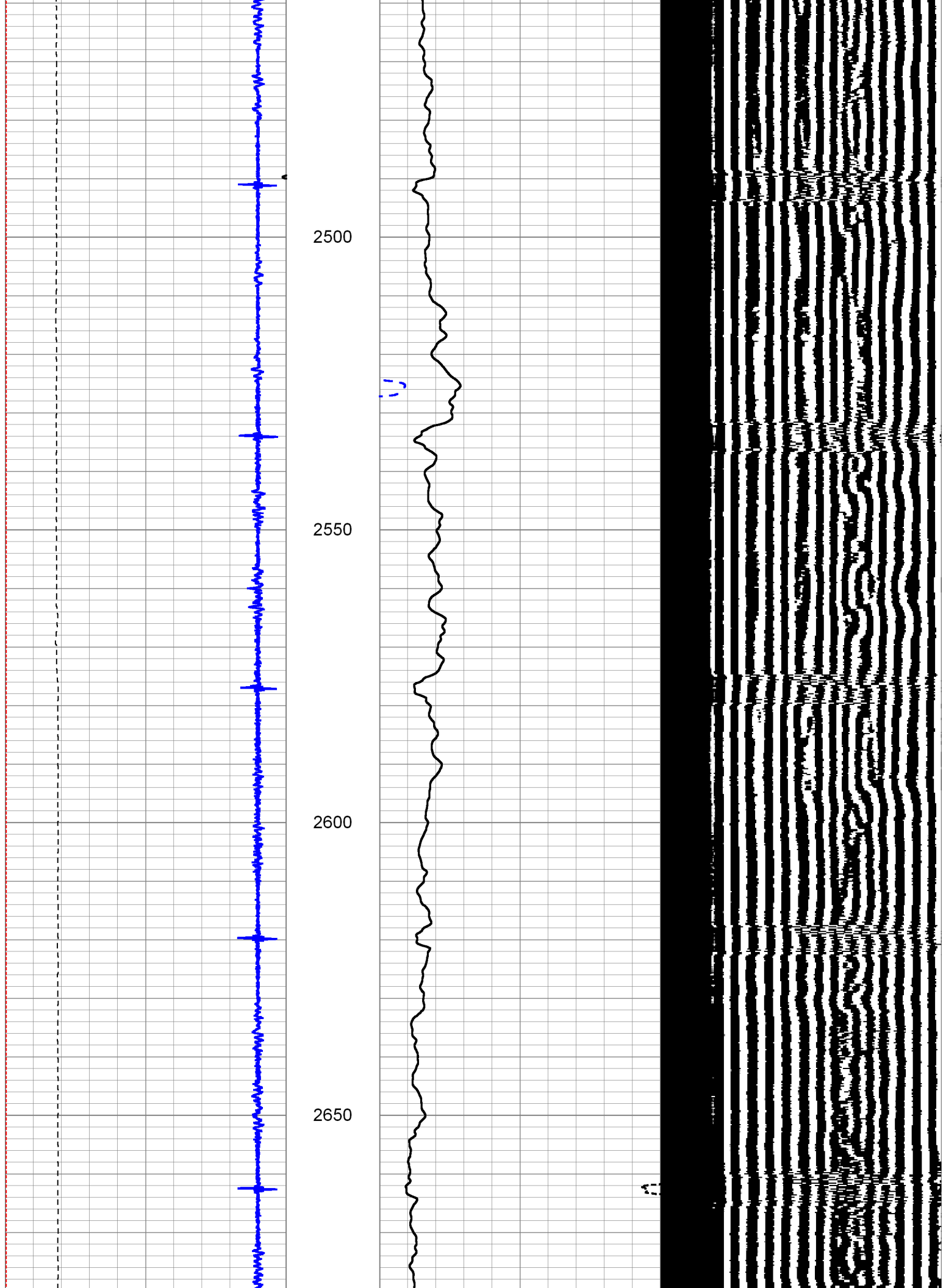
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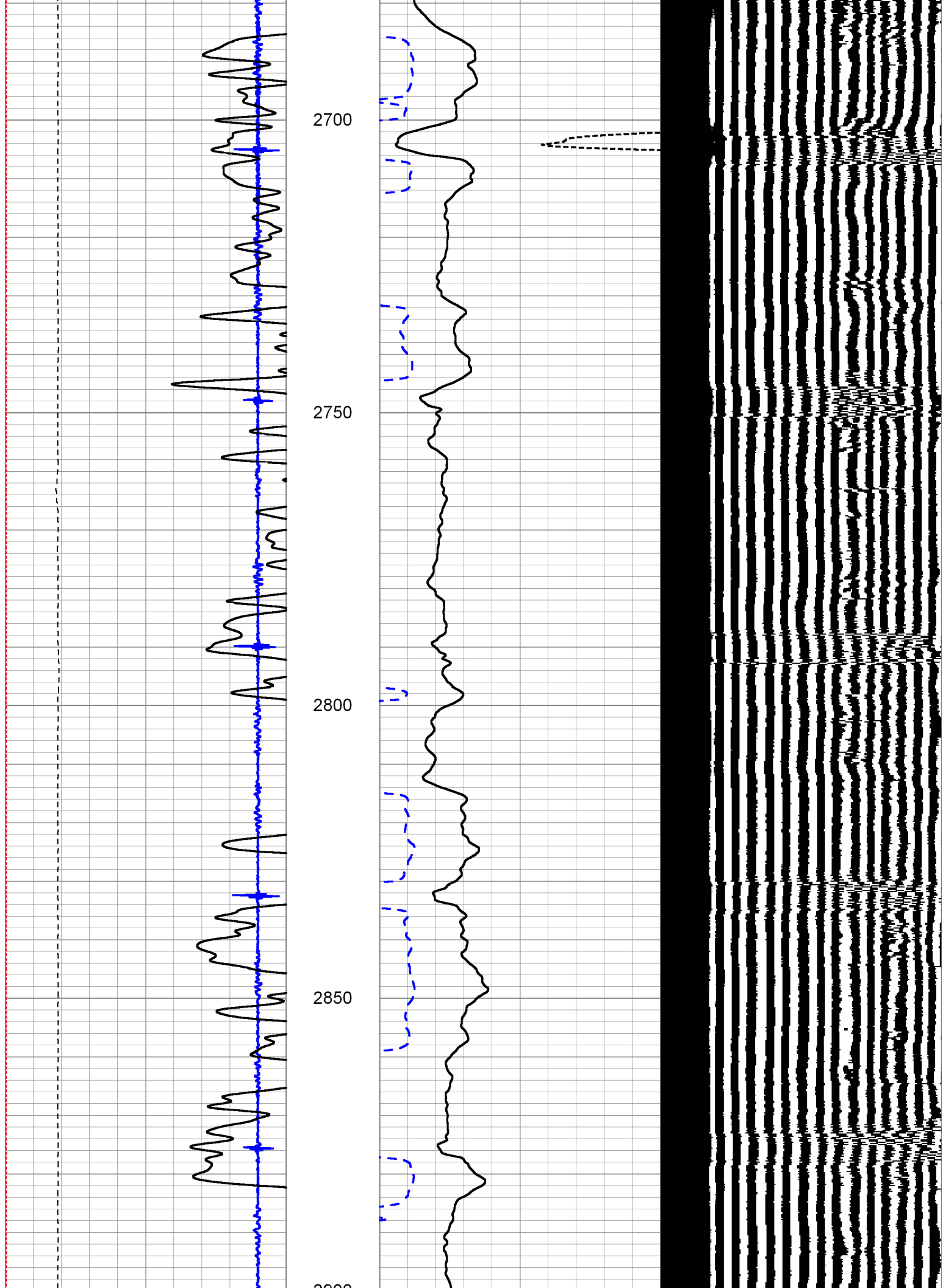
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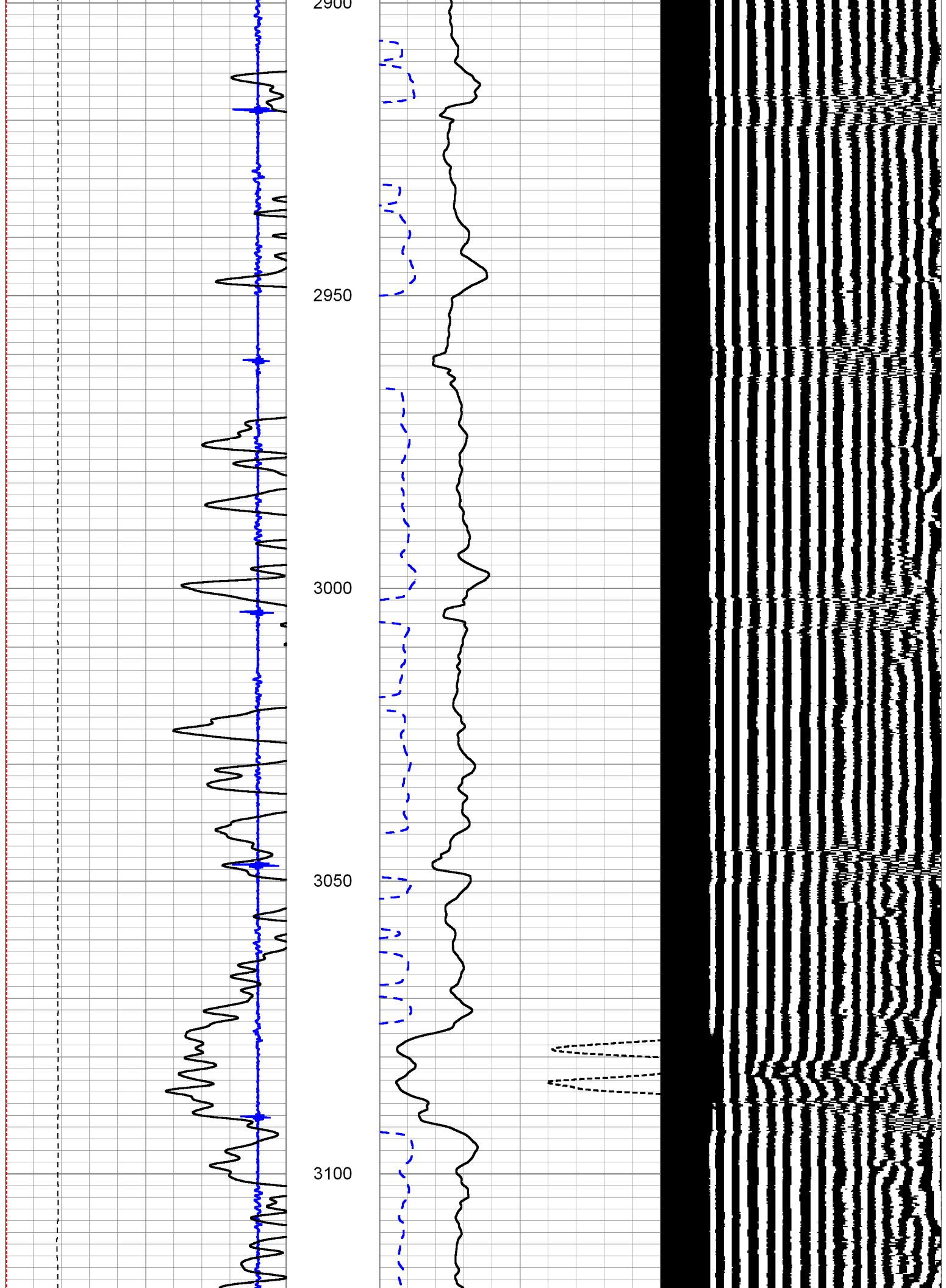
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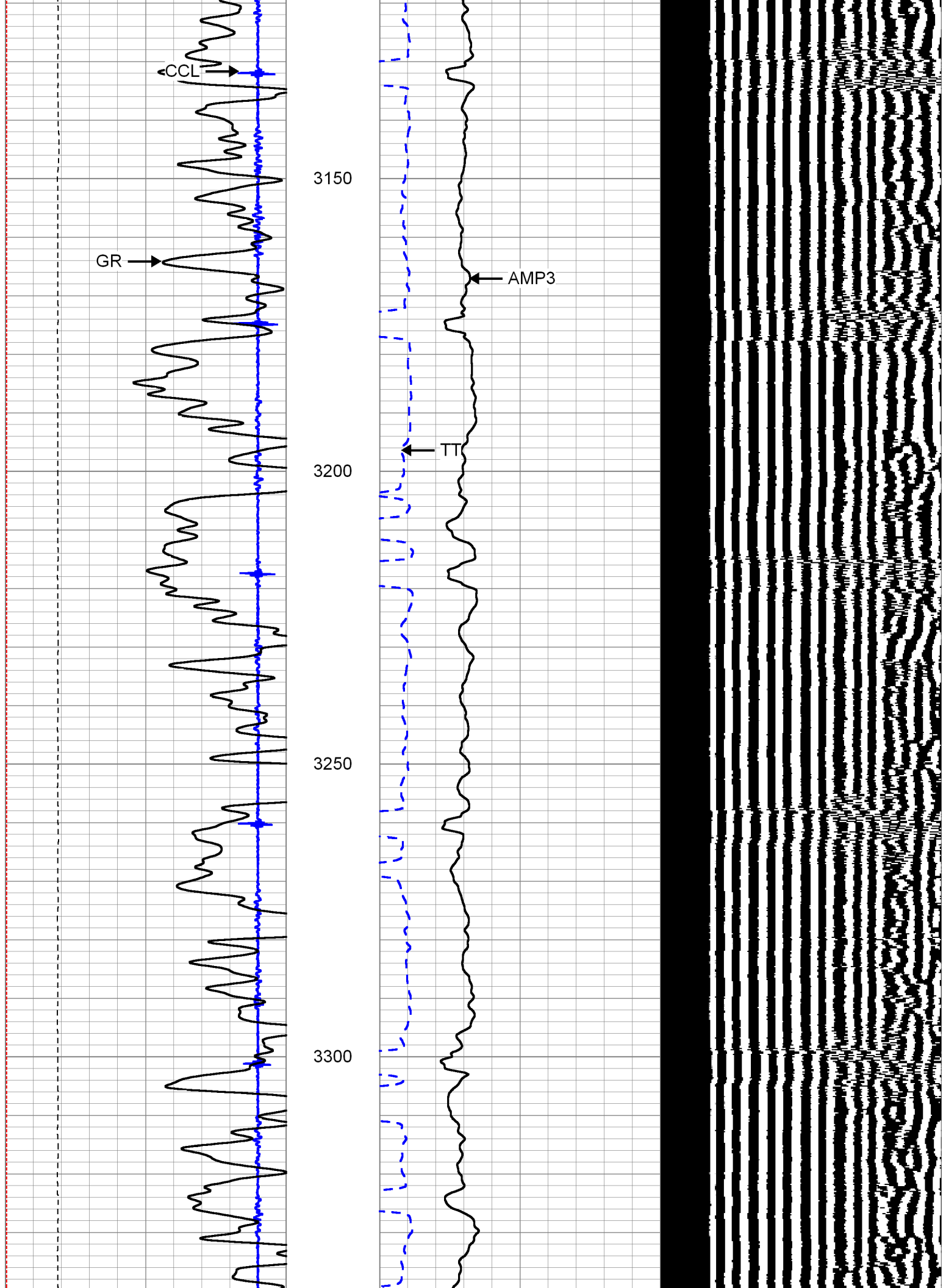


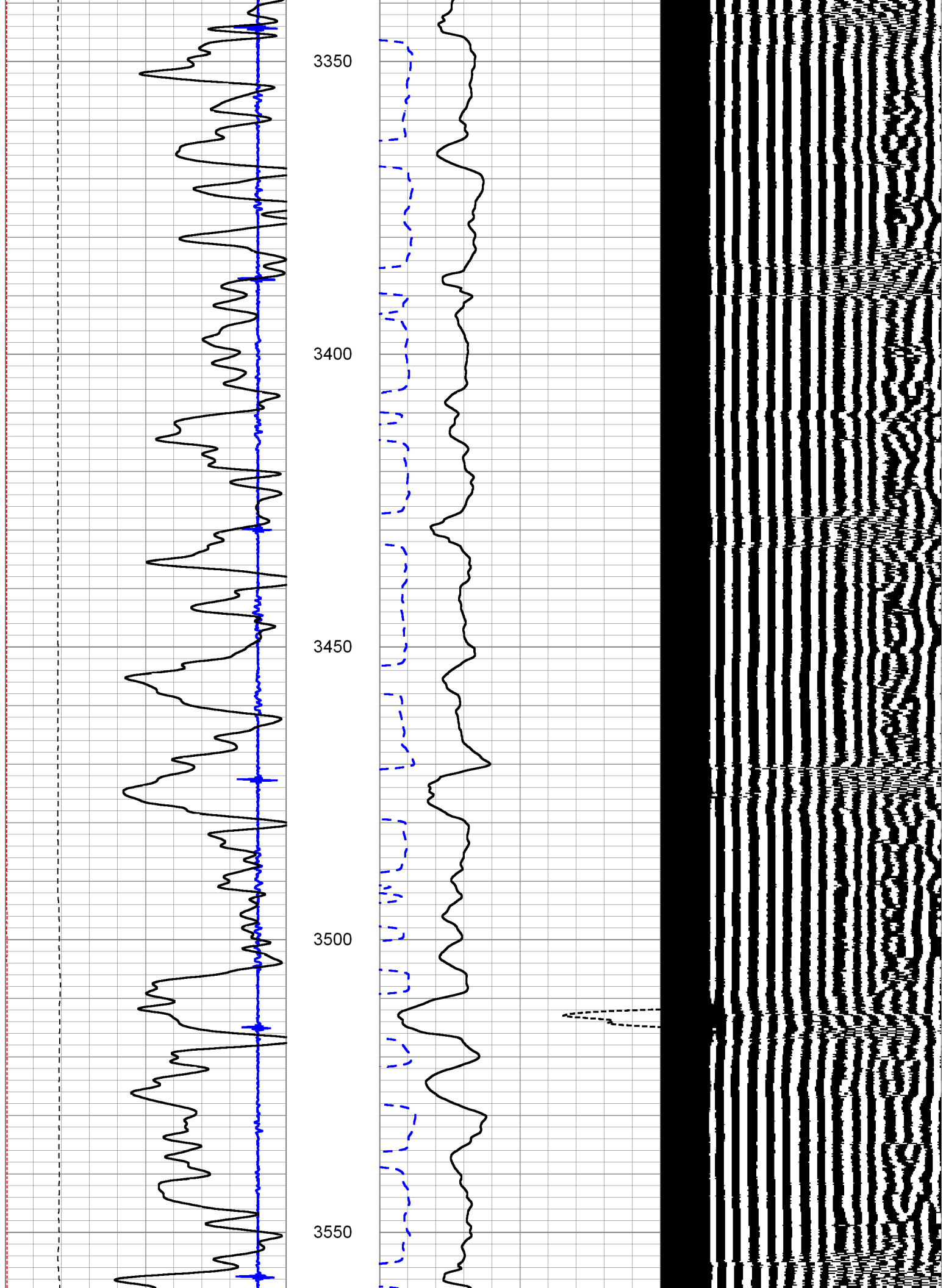


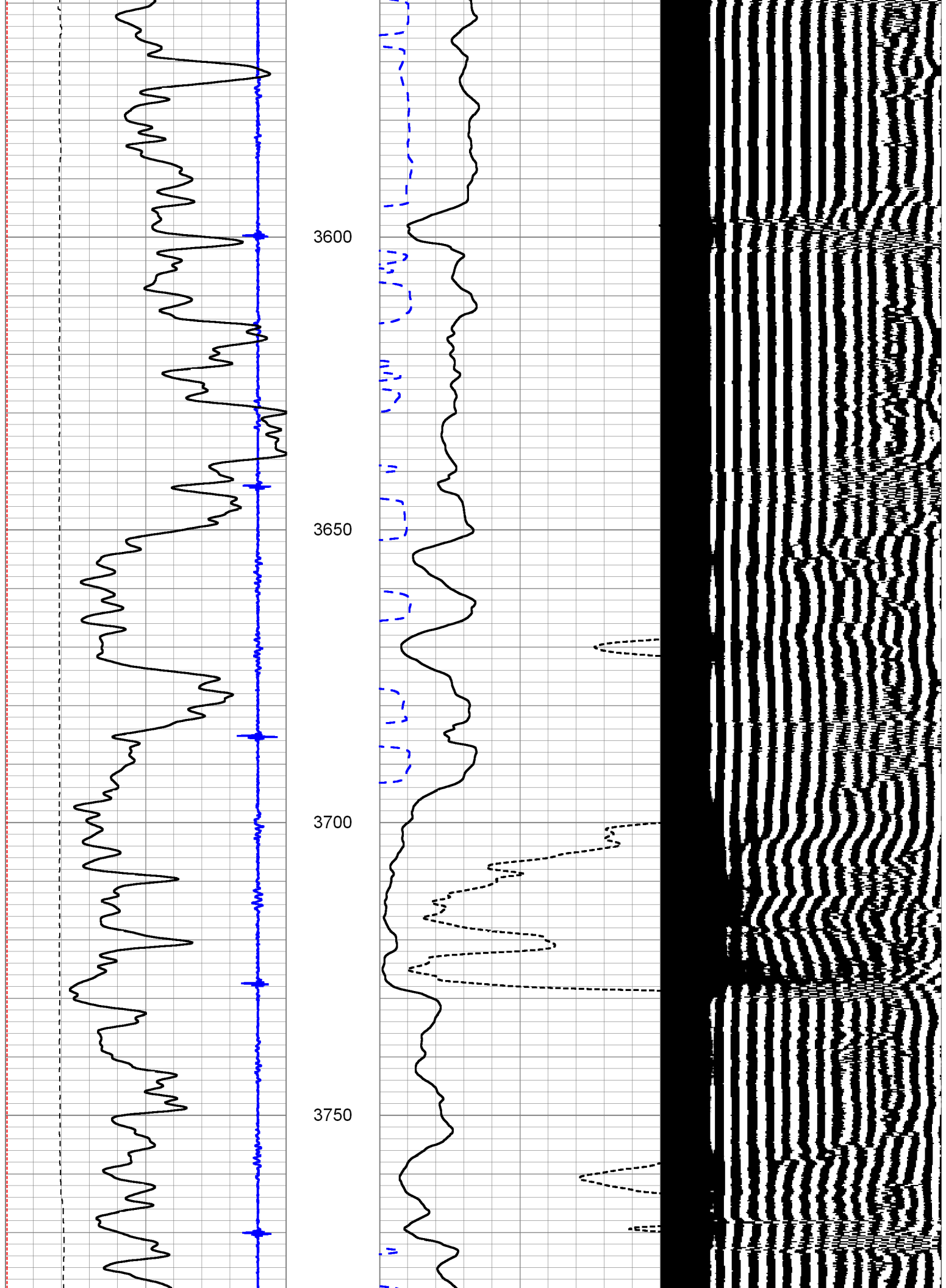


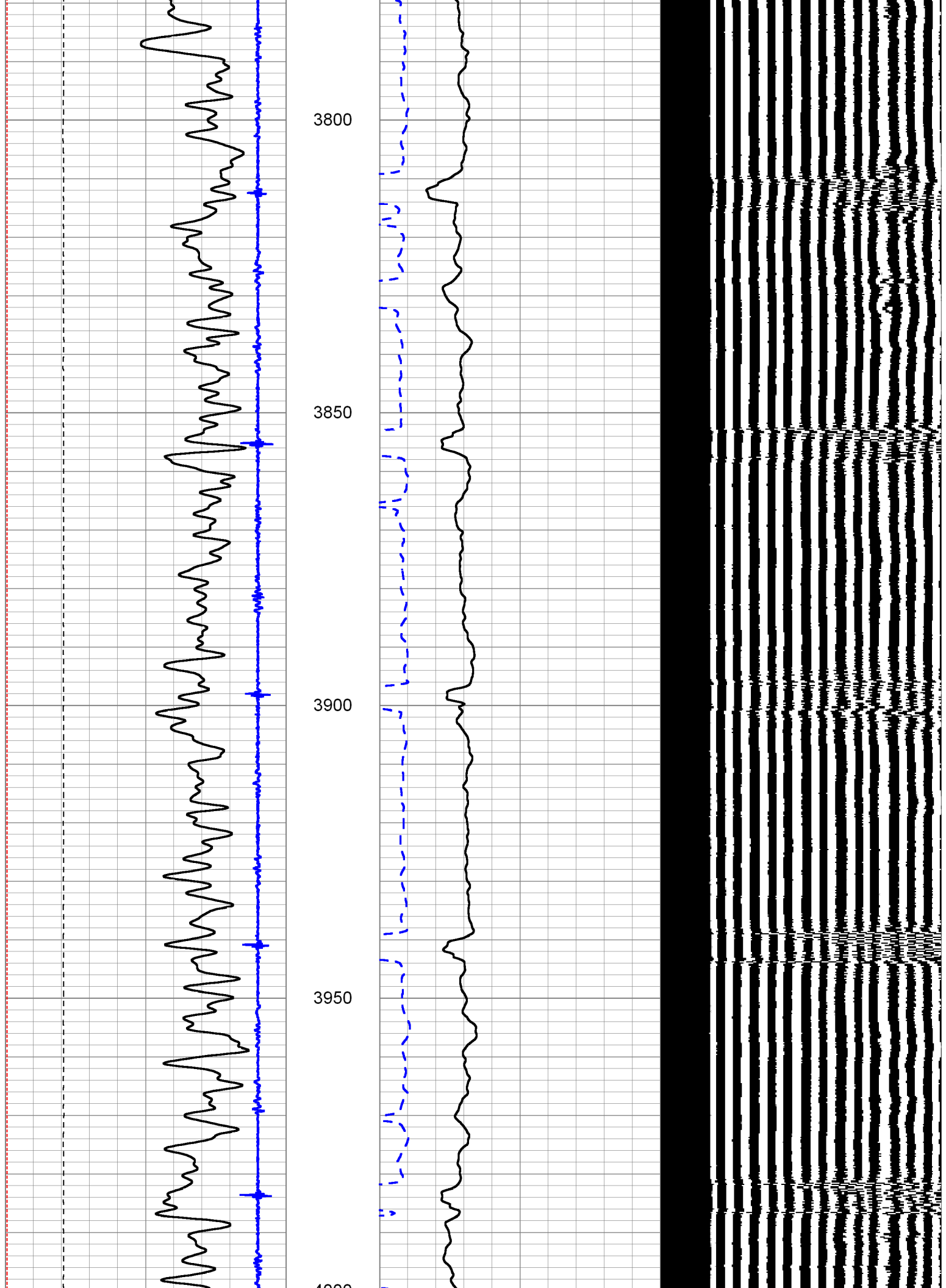


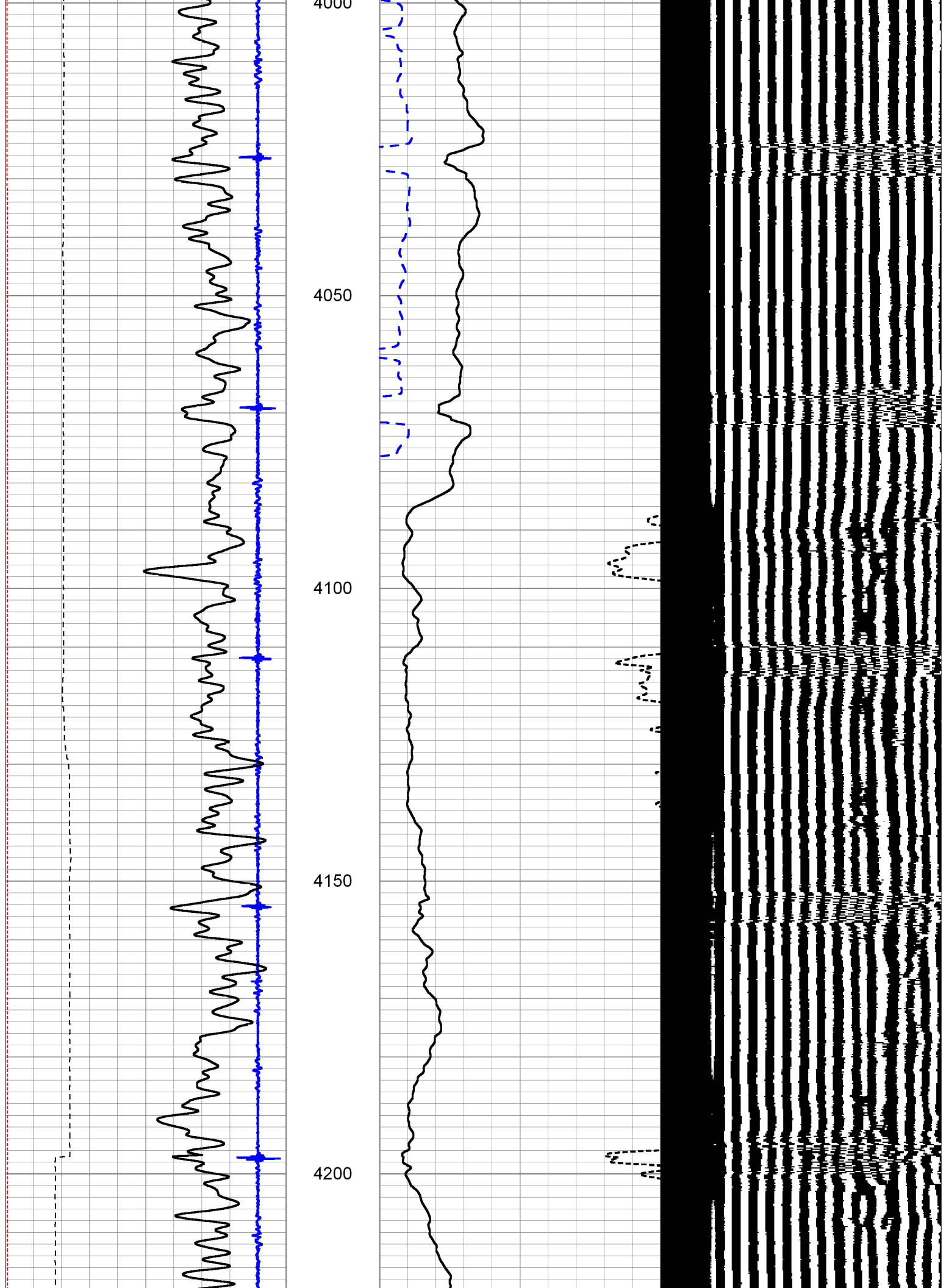


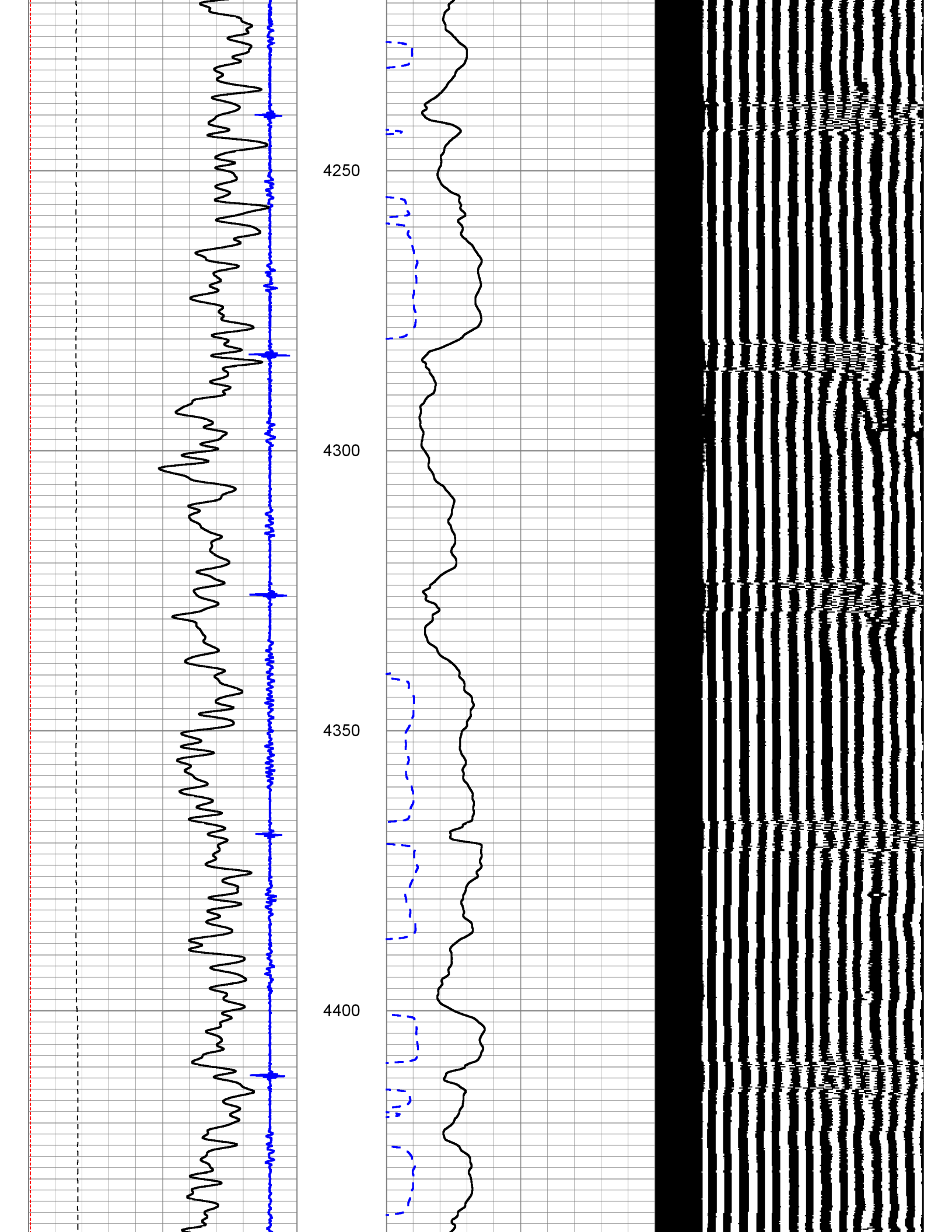


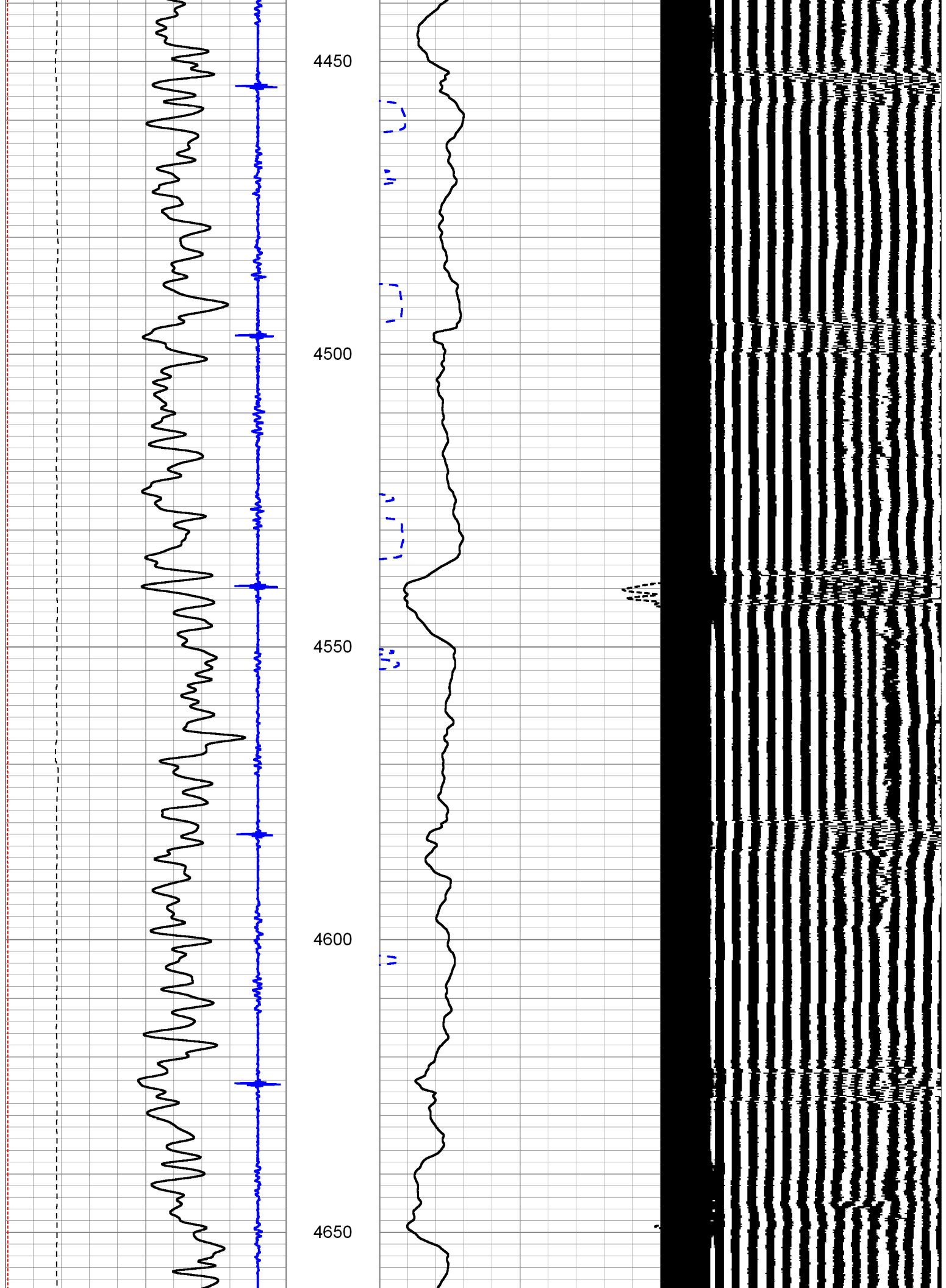


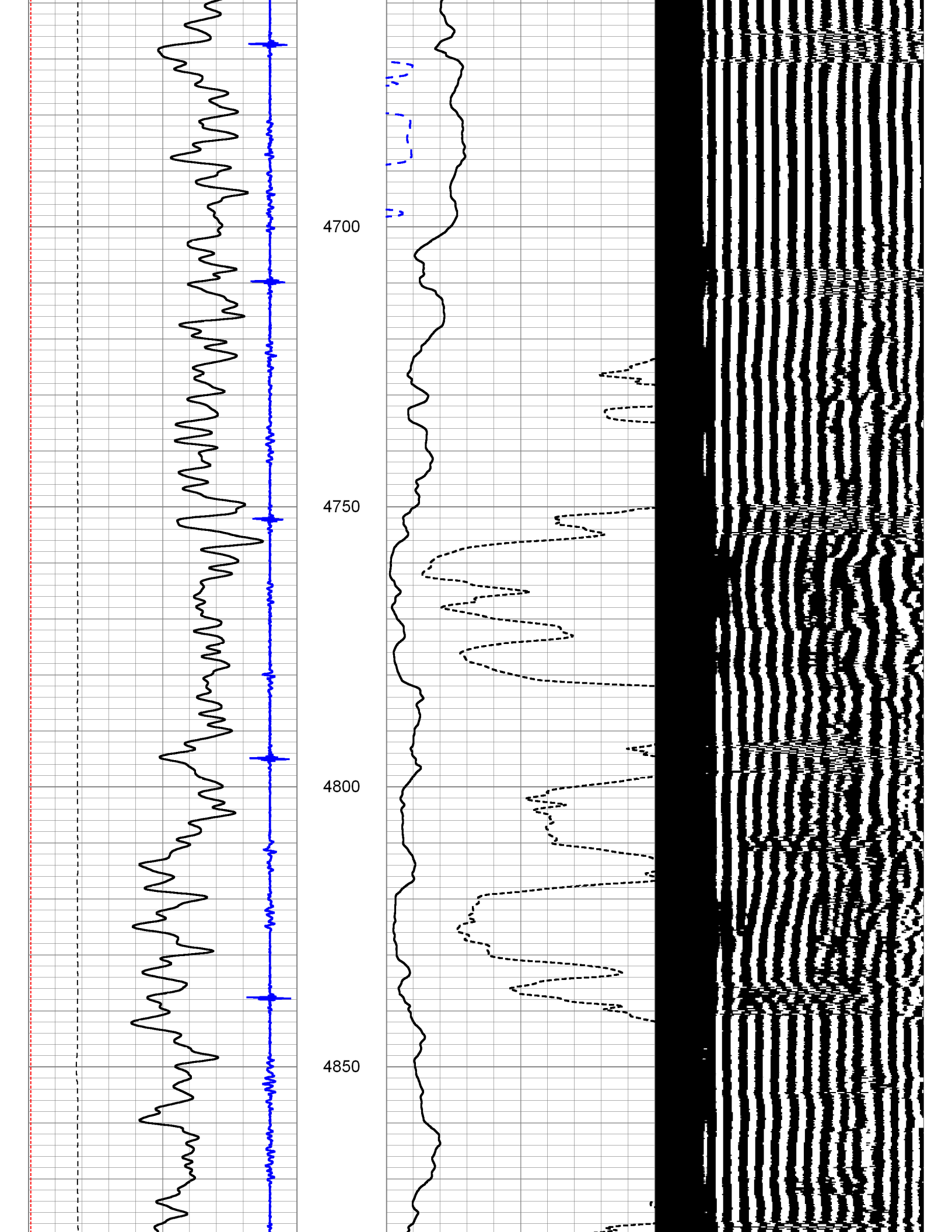


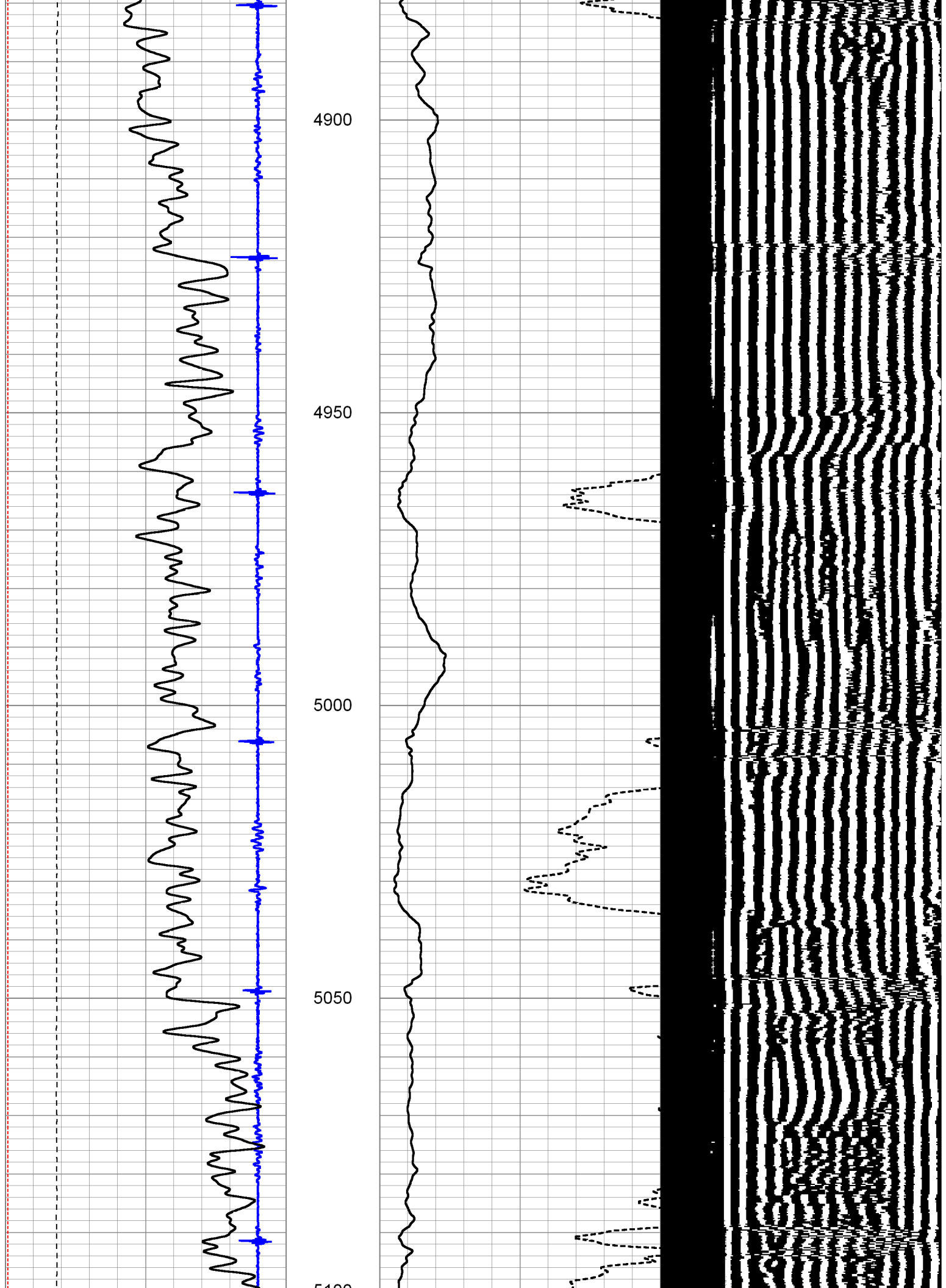


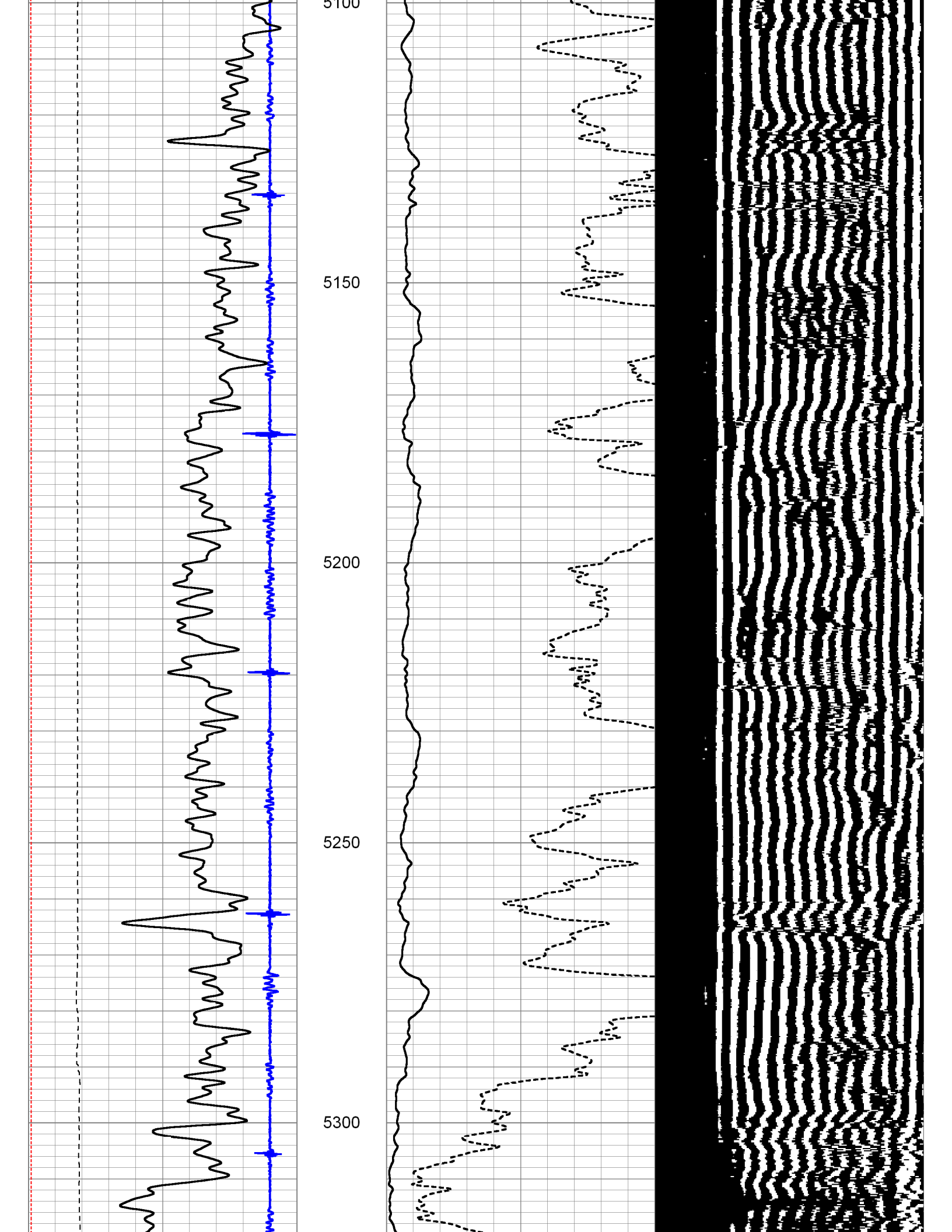


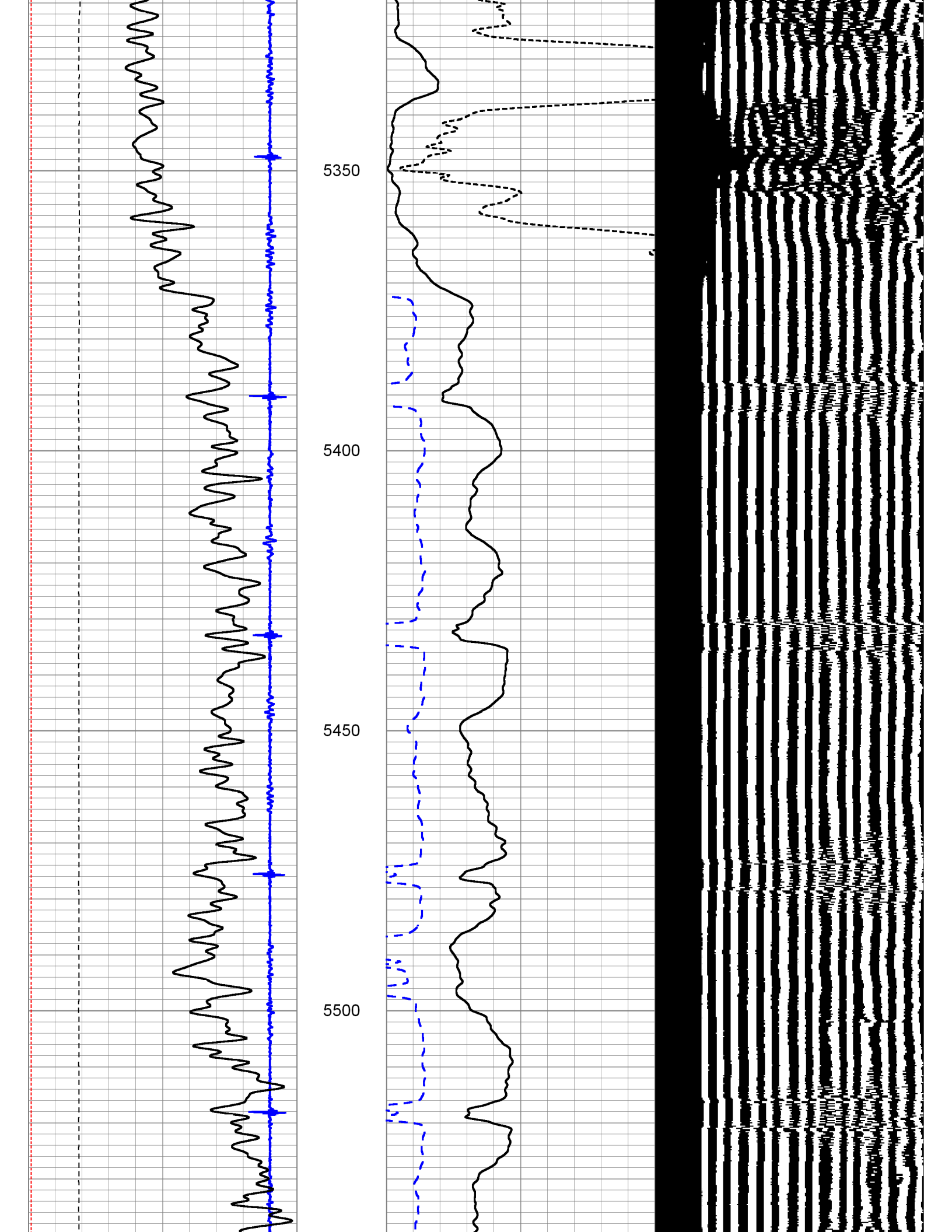


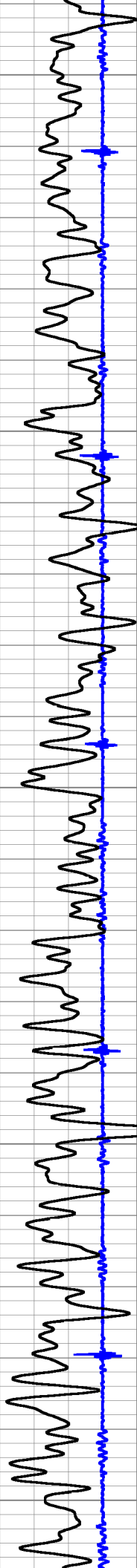












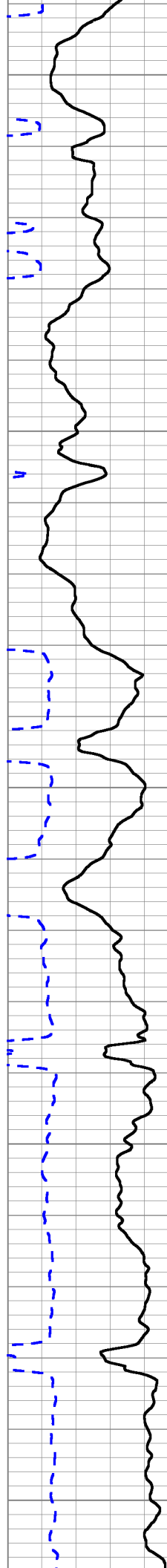
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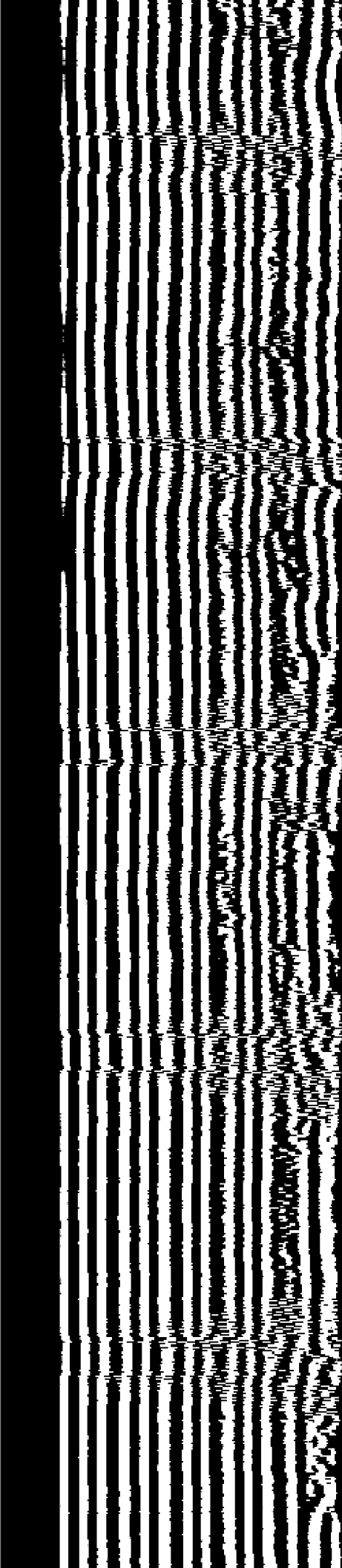
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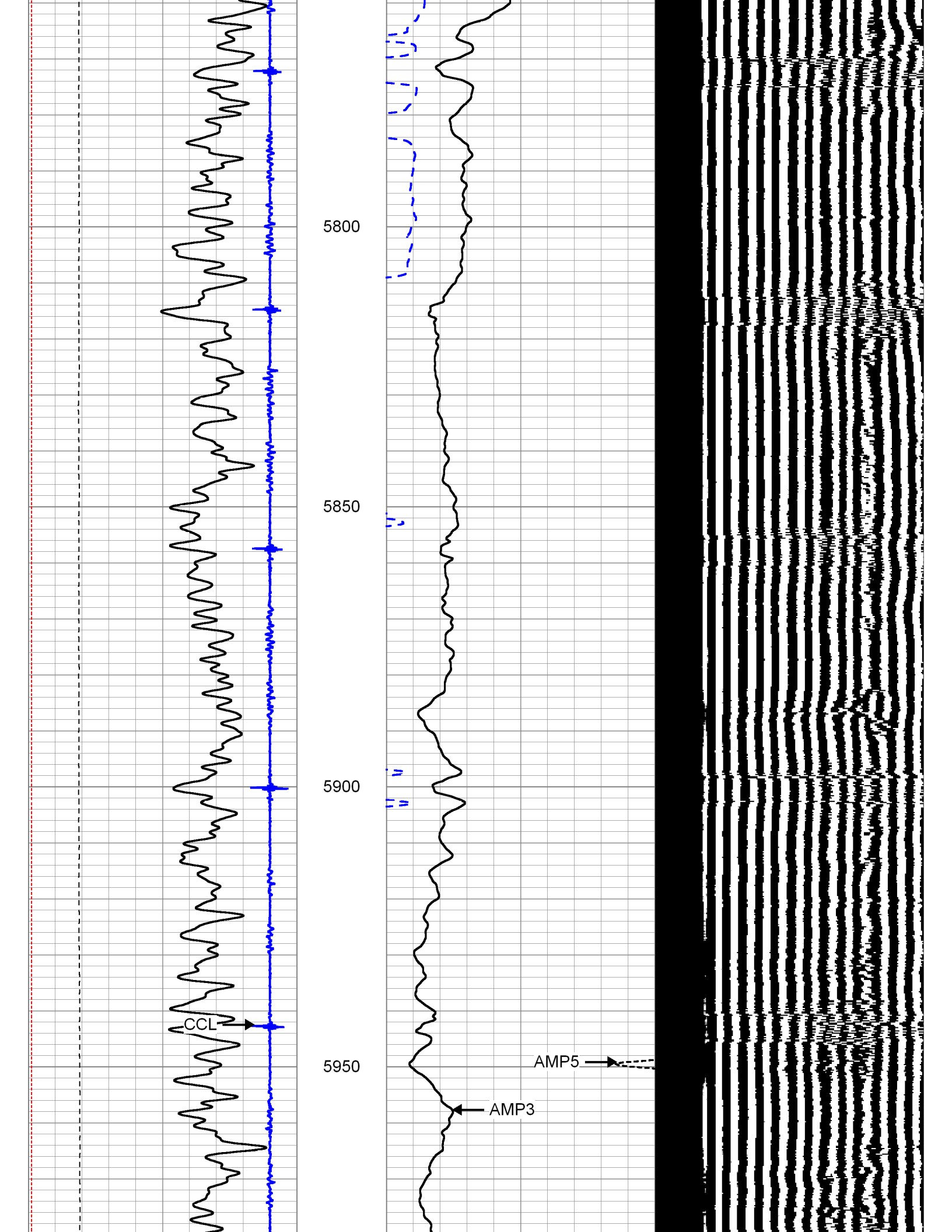
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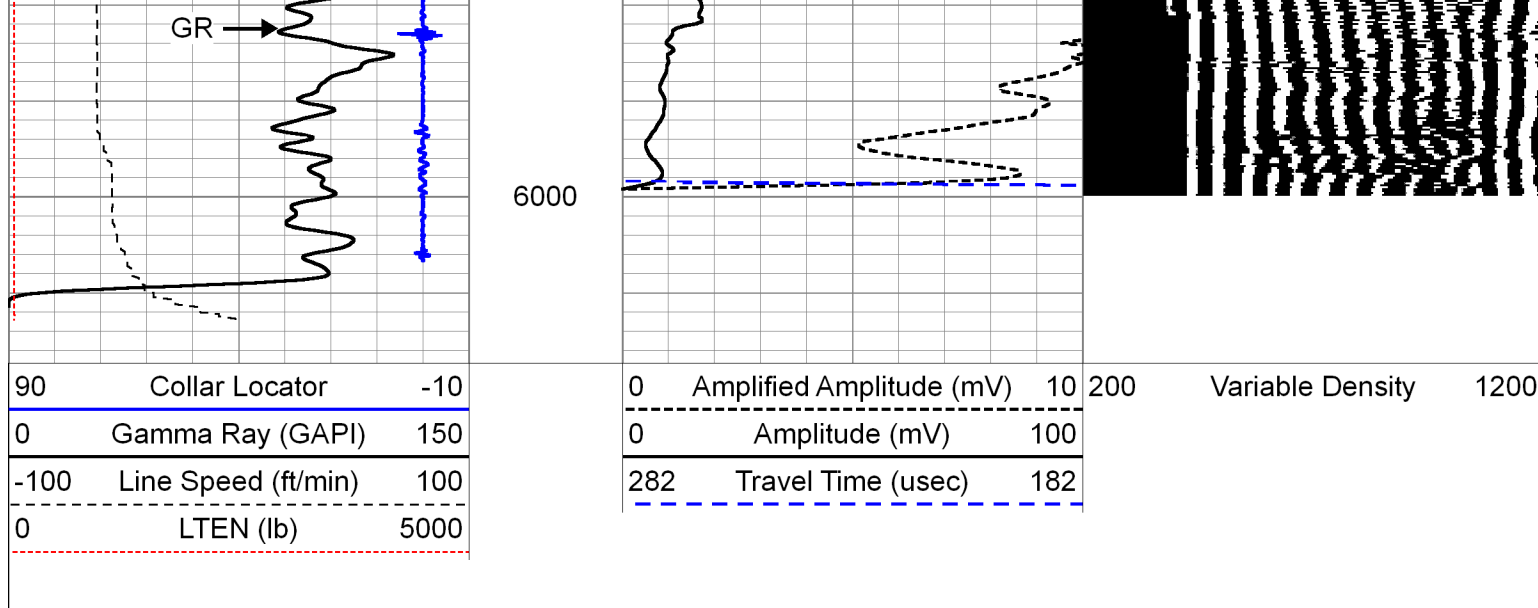
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11

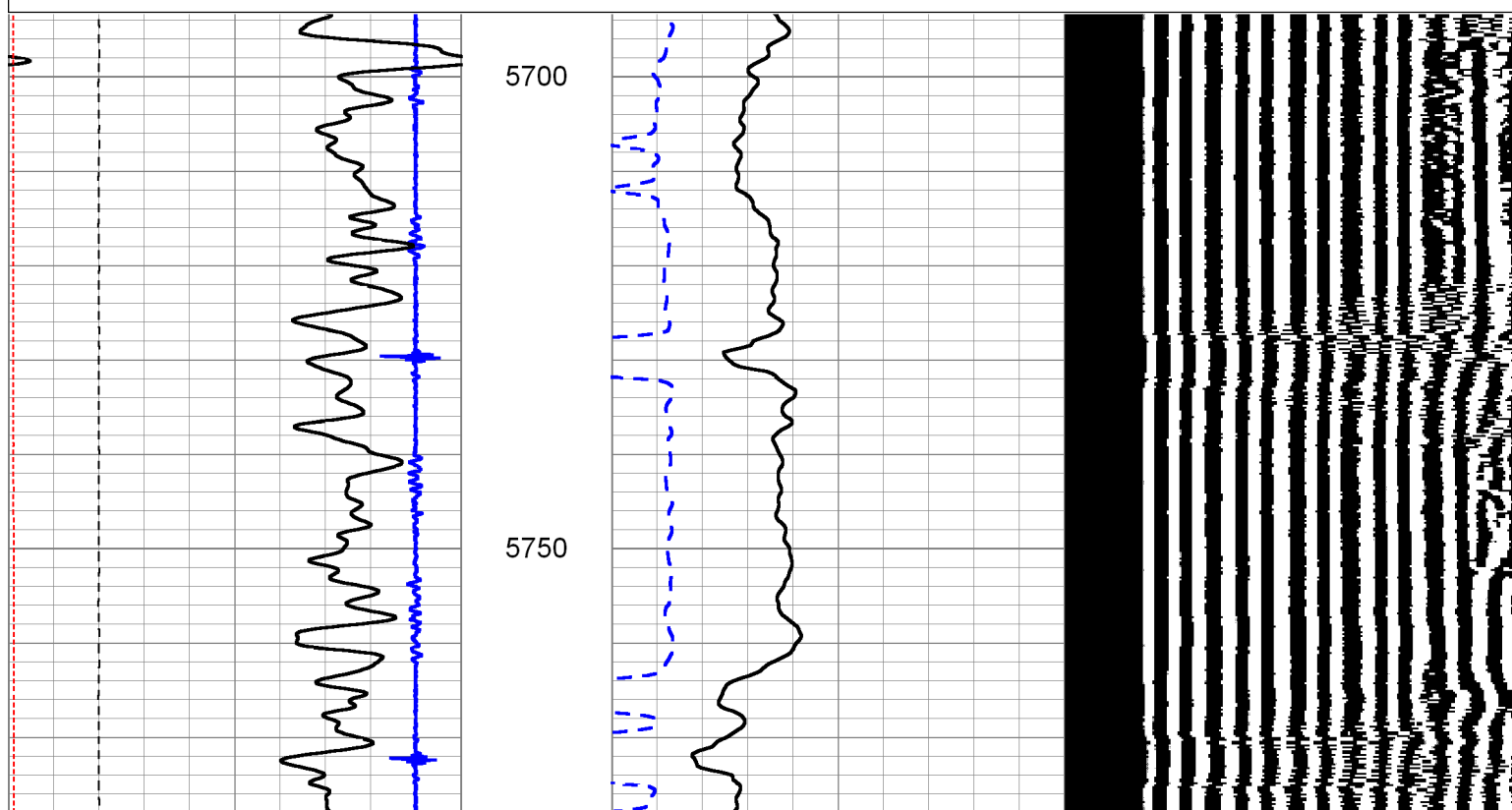
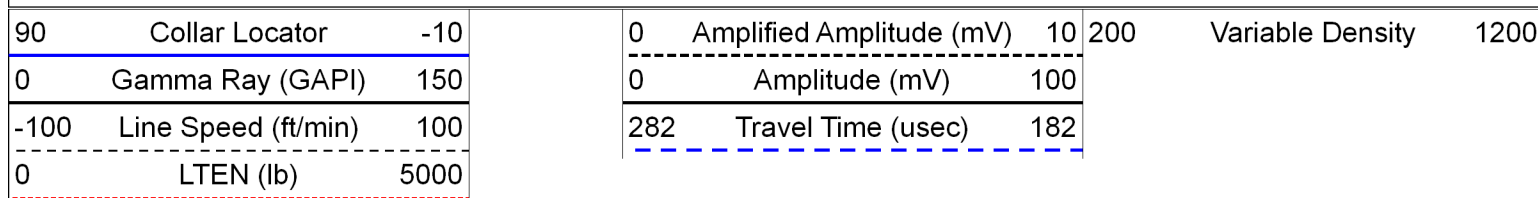


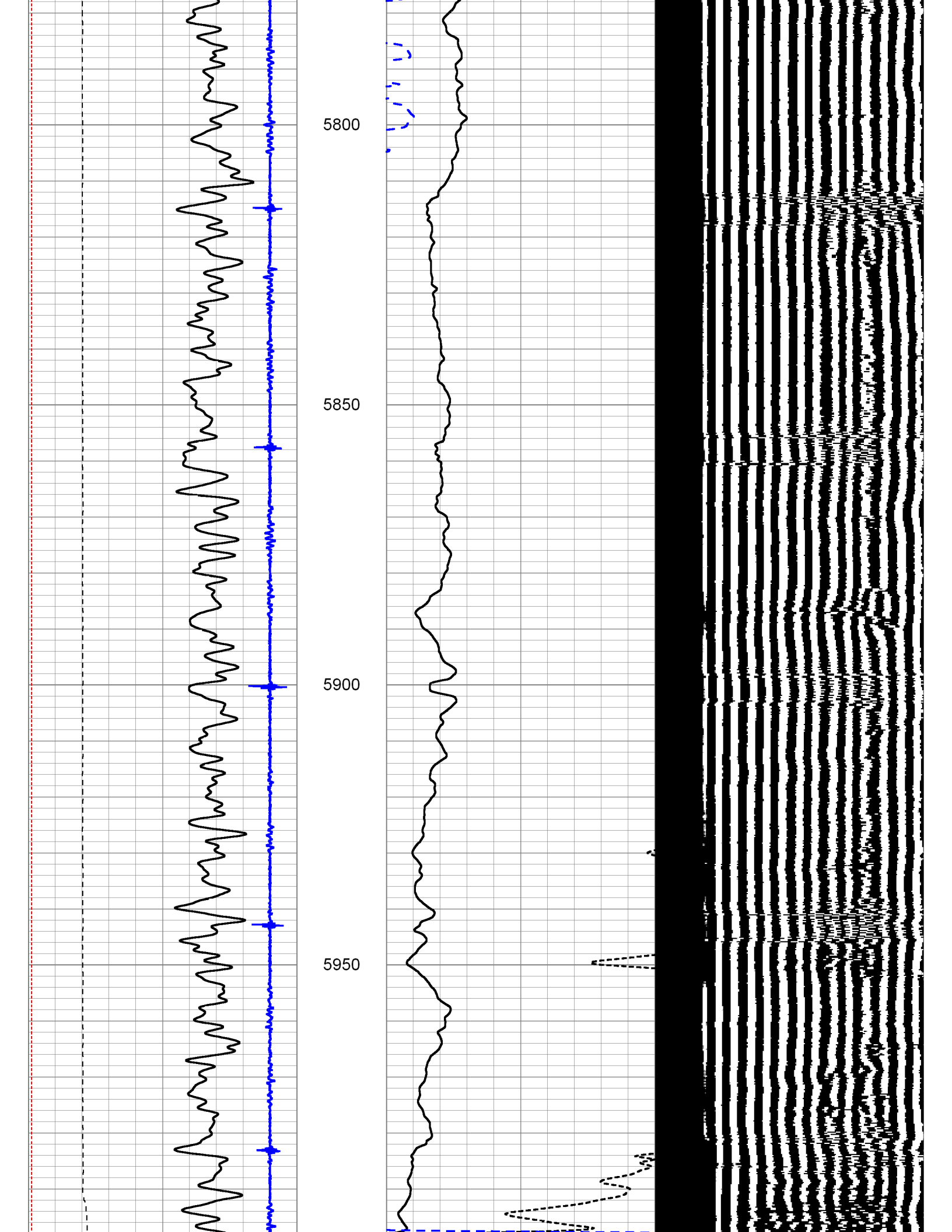


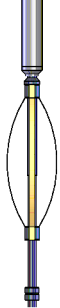



REPEAT PASS

Database File: muataul17-7h.db
 Dataset Pathname: REPEAT/pass1
 Presentation Format: cblww
 Dataset Creation: Sat Feb 13 11:06:03 2016 by Log Std Casedhole 10081
 Charted by: Depth in Feet scaled 1:240





GR	3.73				
CENT	2.83		PTS275	2.83	2.75
Dataset: muataul17-7h.db: field/well/DOWN/pass1 Total Length: 23.25 ft Total Weight: 140.00 lb O.D. 2.75 in					

	Company	SANDRIDGE ENERGY	
	Well	MUTUAL 7-17H	
	Field	NORTH PARK	
	County	JACKSON	
	State	COLORADO	Country U.S.A.