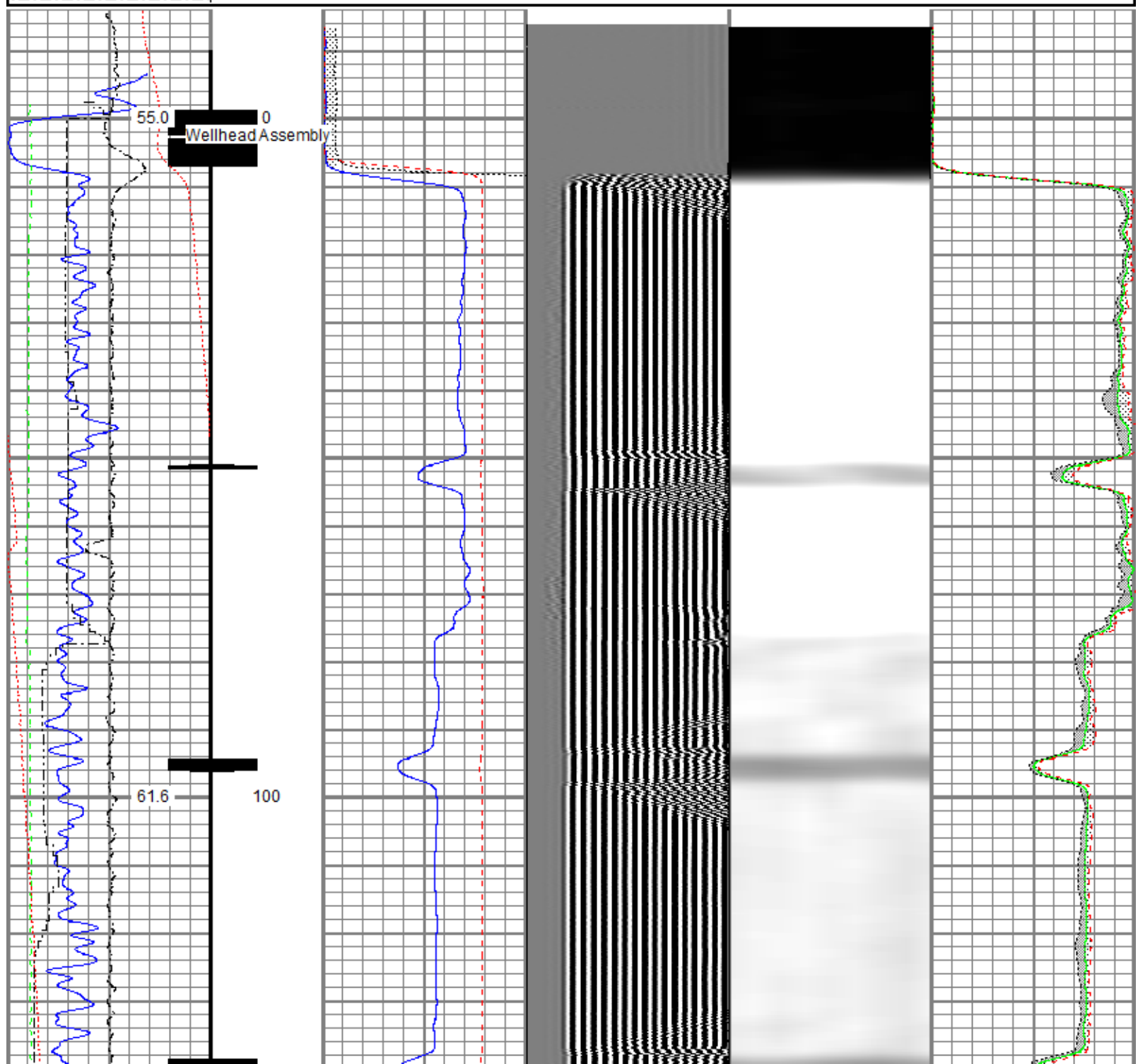


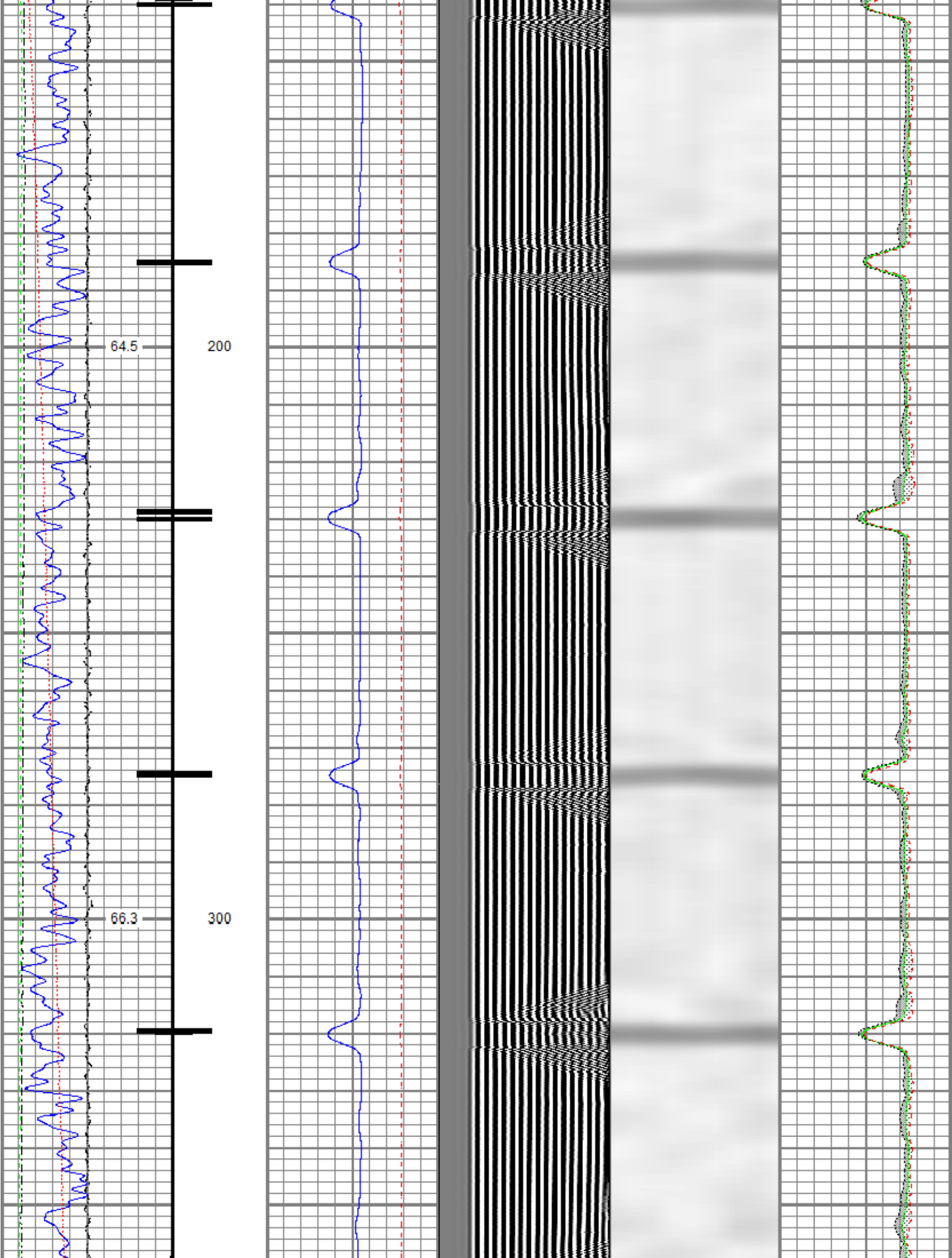


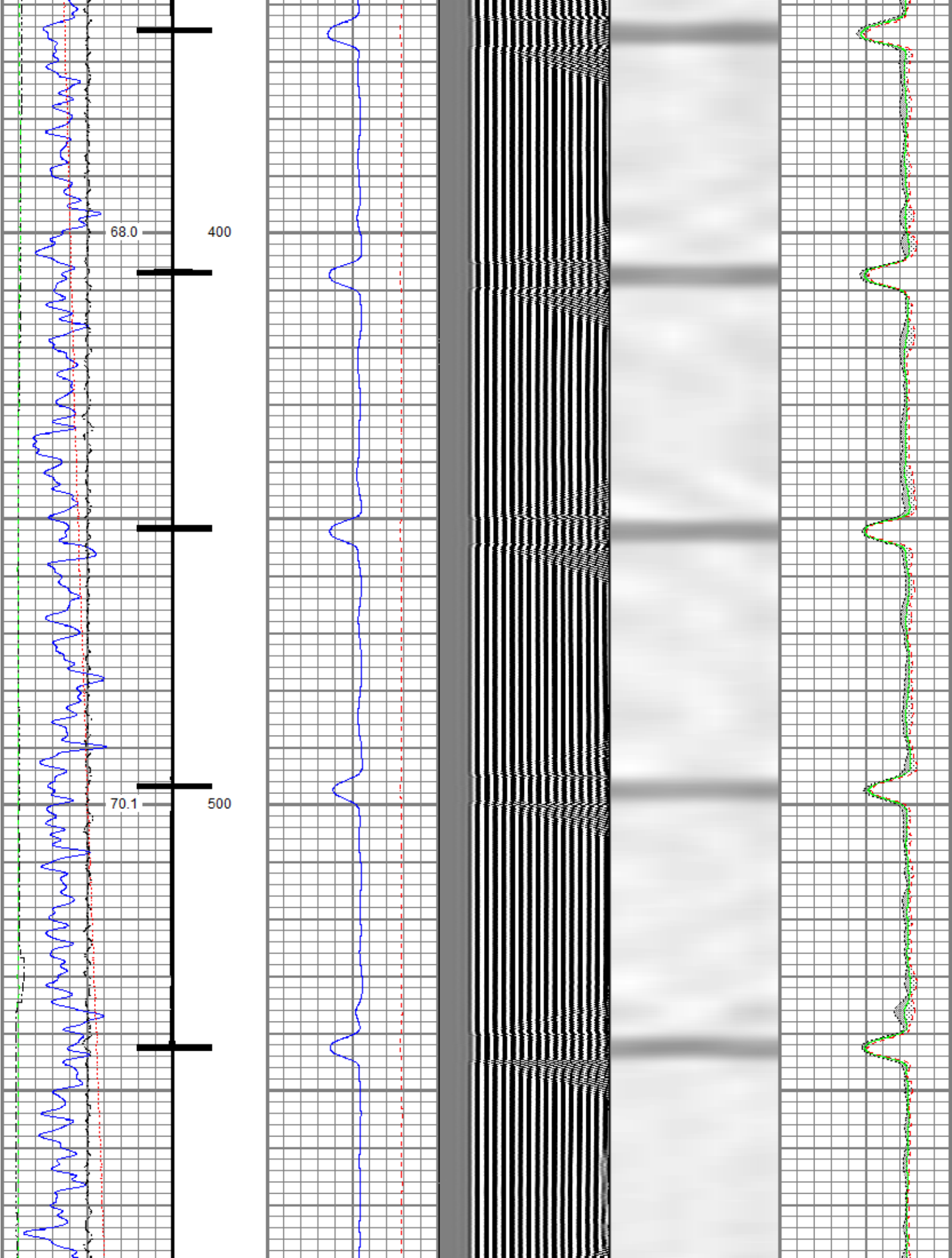
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
<p>Log ran as per customer request Depth referenced to casing tally reported Marker Joint at 6422.2 FT Adjusted -31 FT to correlate to Marker Joint Log ran with 2500 PSI Surface Induced Pressure Logging tools were clean and free of debris upon completion of operations</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!!</p>

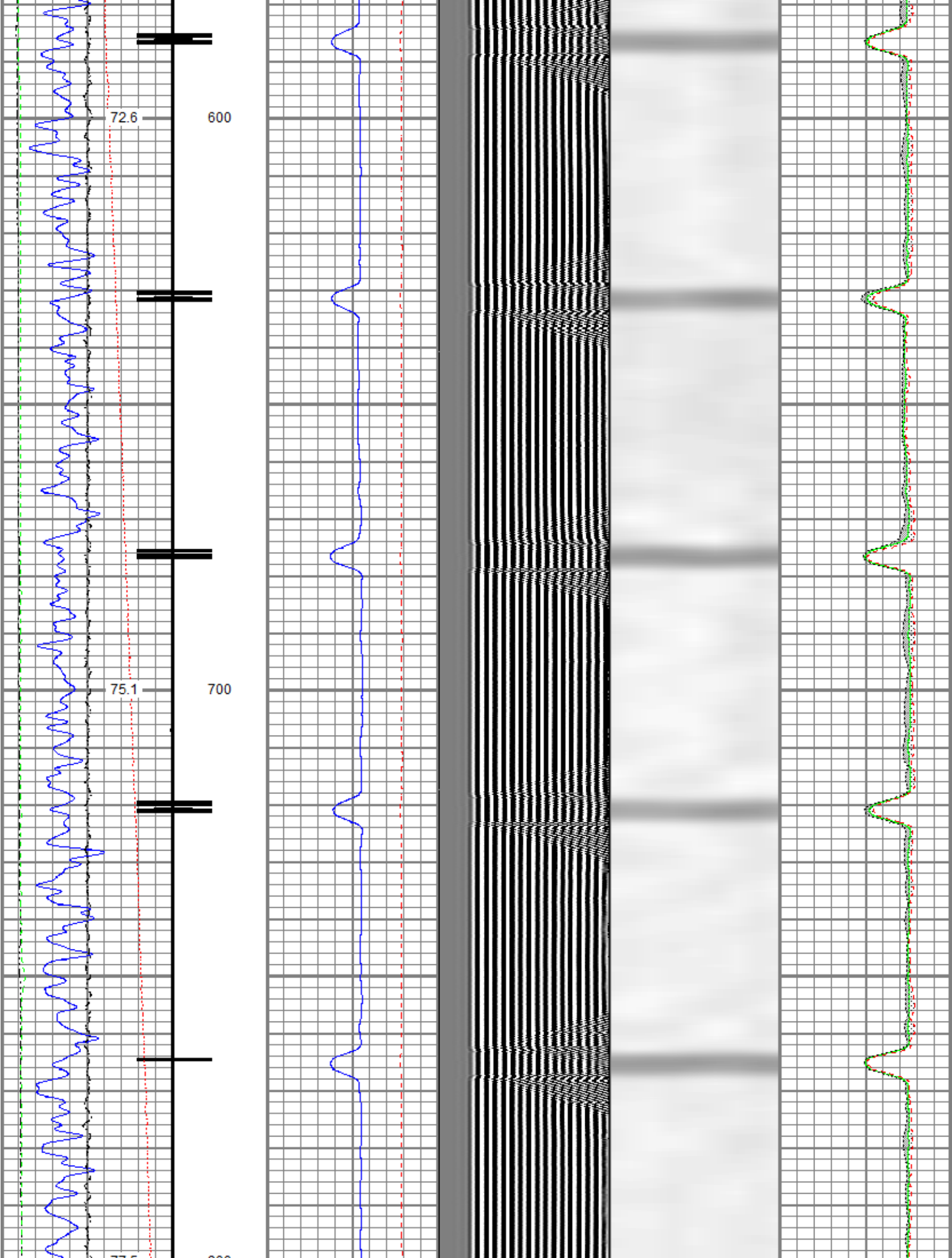
Database File noble_vogler state d33-769_rbl_04-13-20\noble_vogler state d33-769_rbl_04-13-20.db
 Dataset Pathname main
 Presentation Format ros_radri_noble
 Dataset Creation Mon Apr 13 12:24:49 2020
 Charted by Depth in Feet scaled 1:240

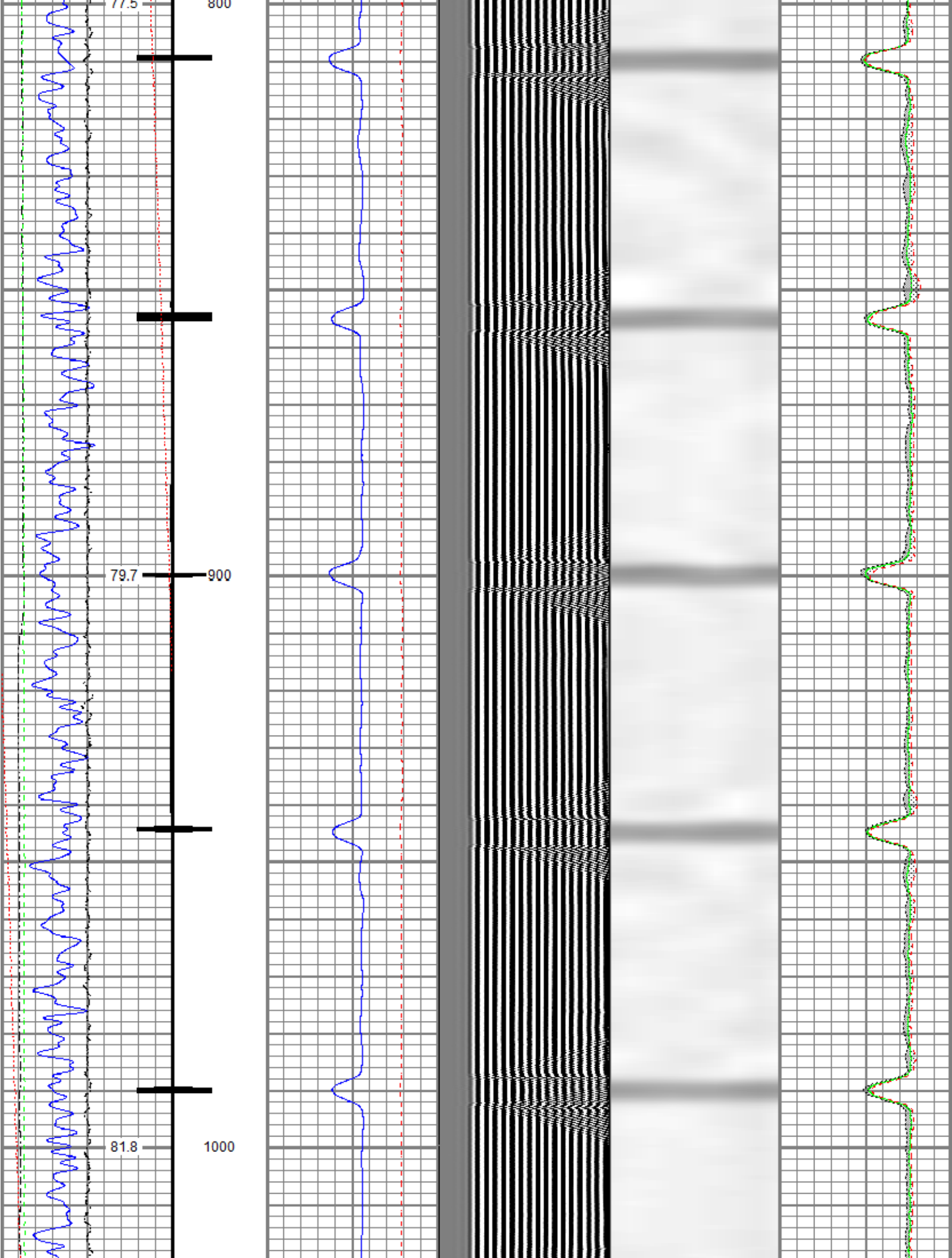
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Log	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min) 150						
Line Tension (lb) 2000						
Differential Temperature						
-2 (degF) 2						

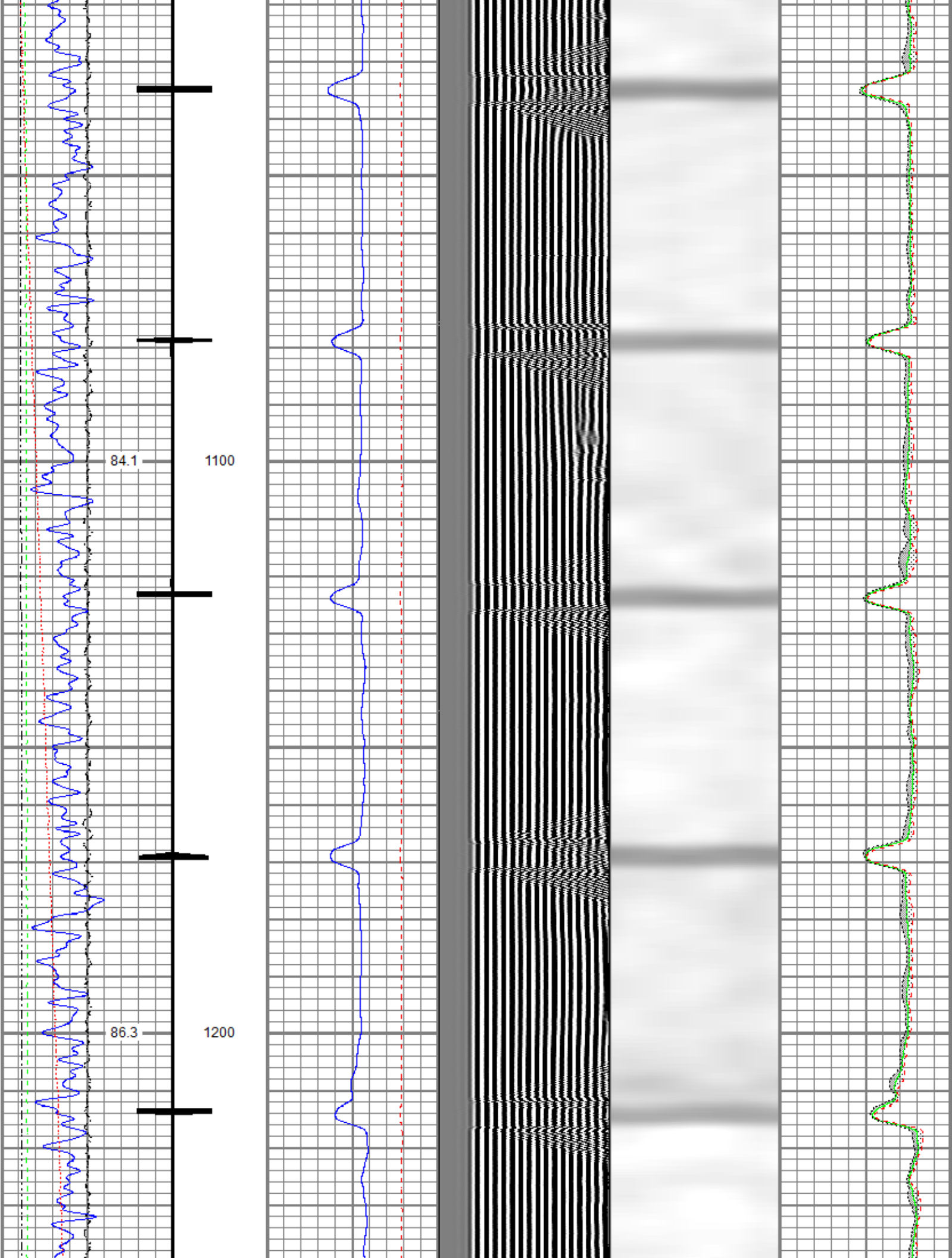


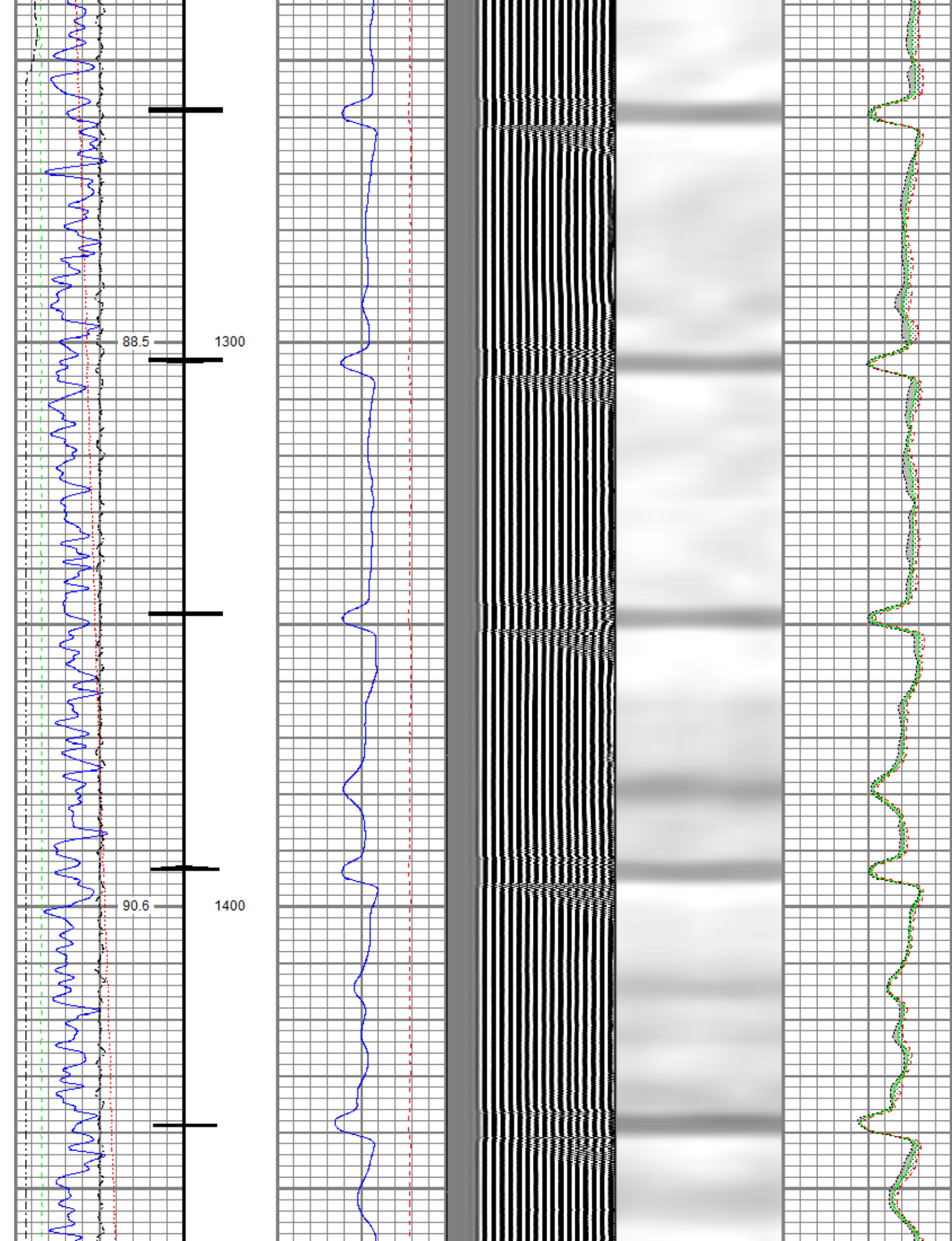


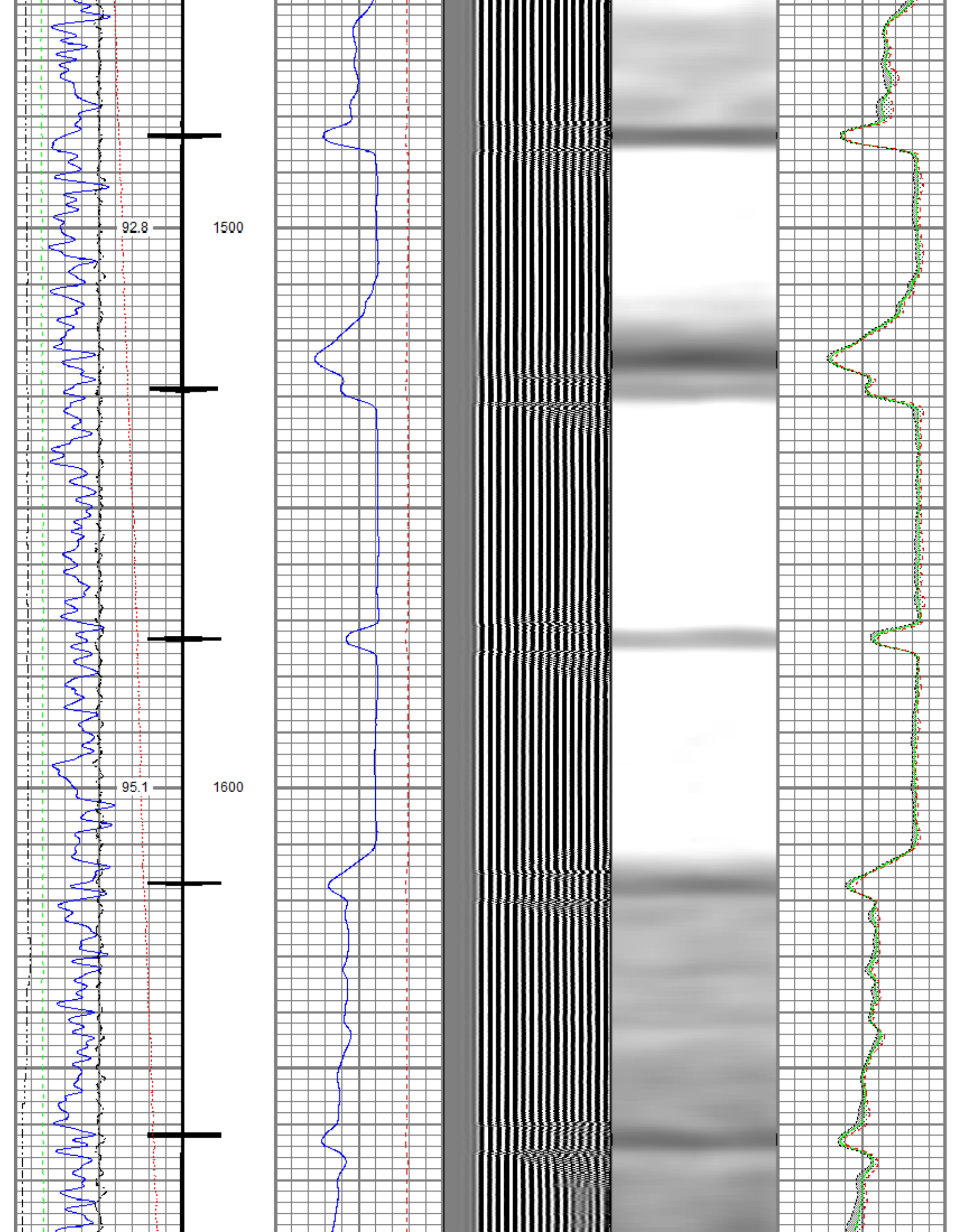


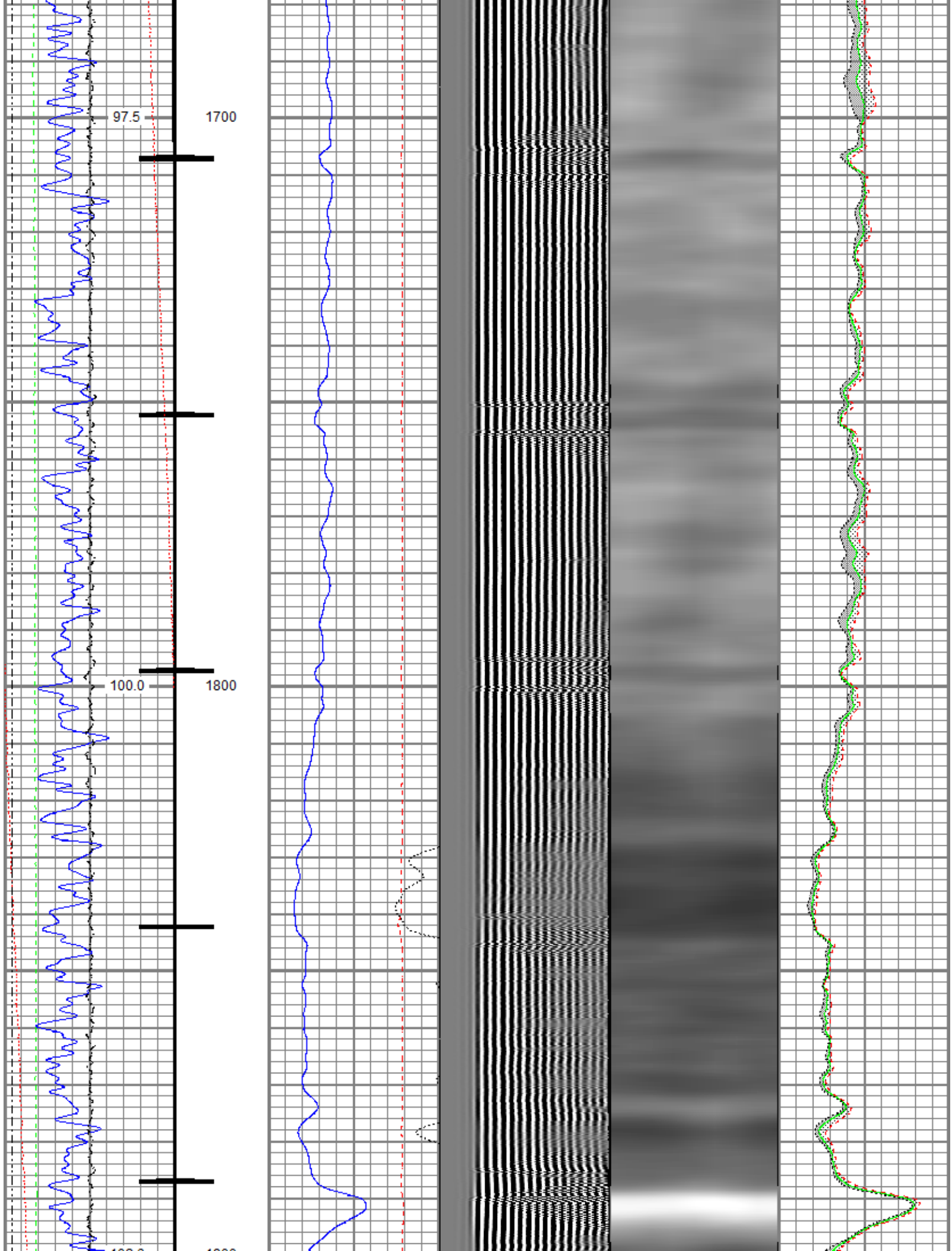


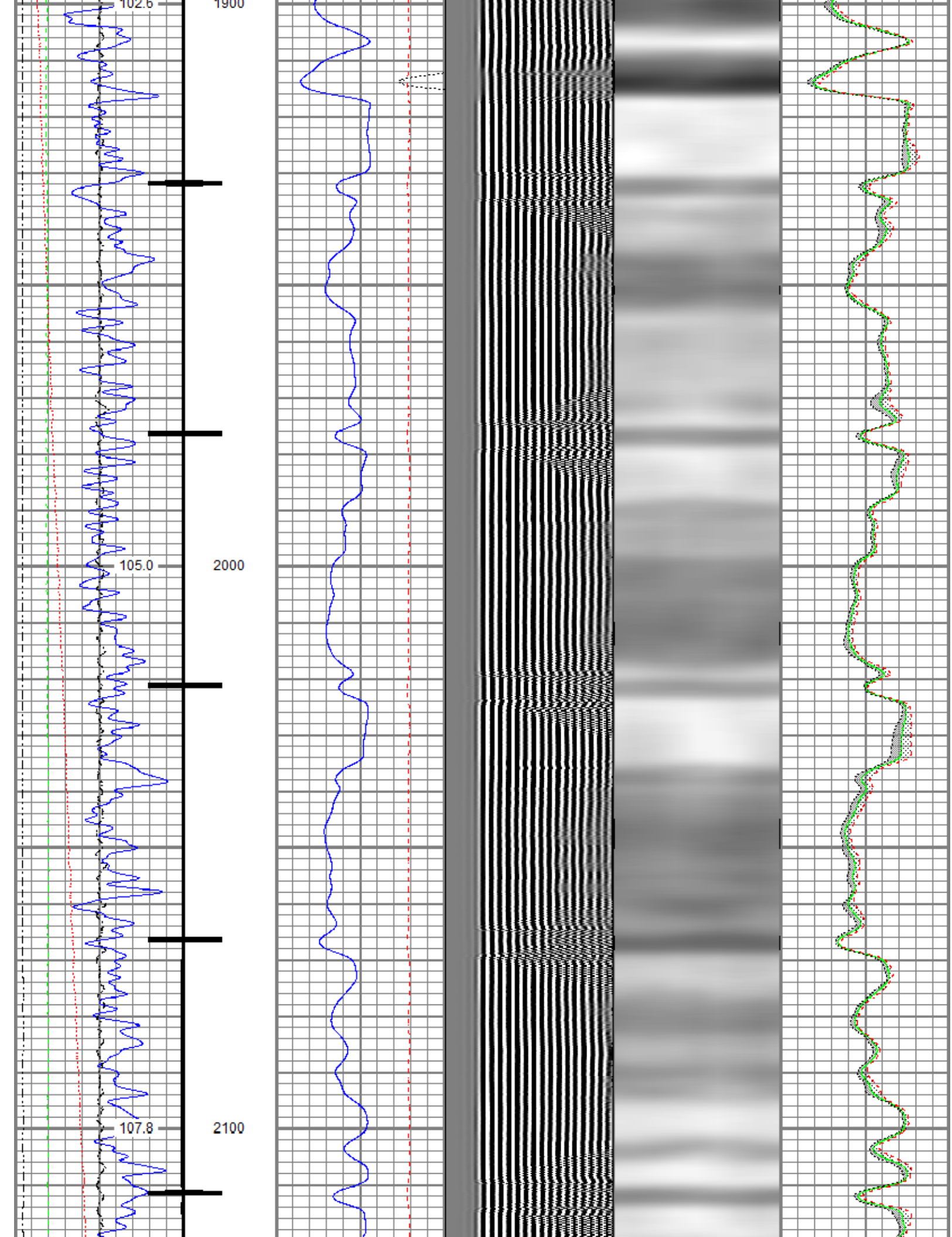


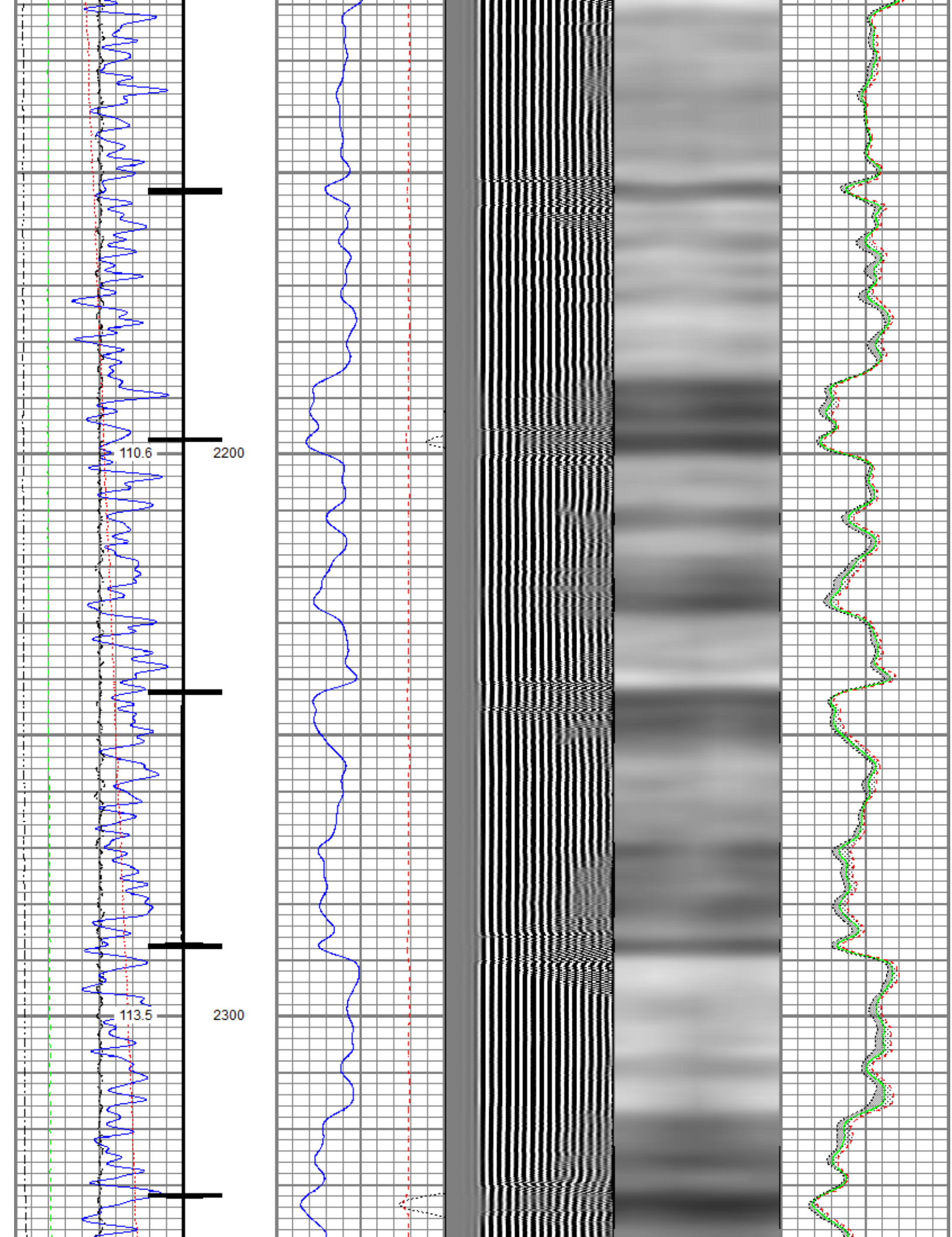


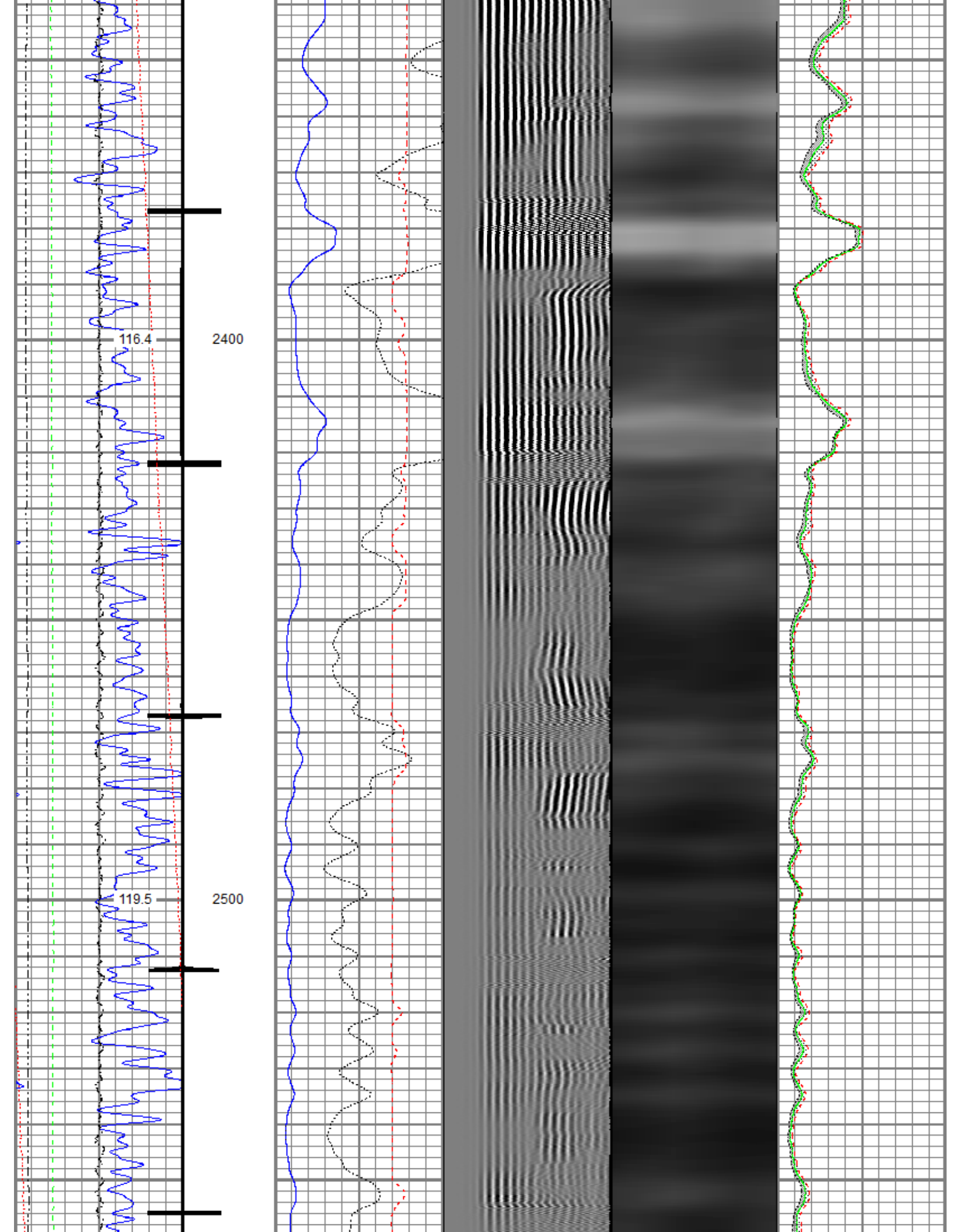


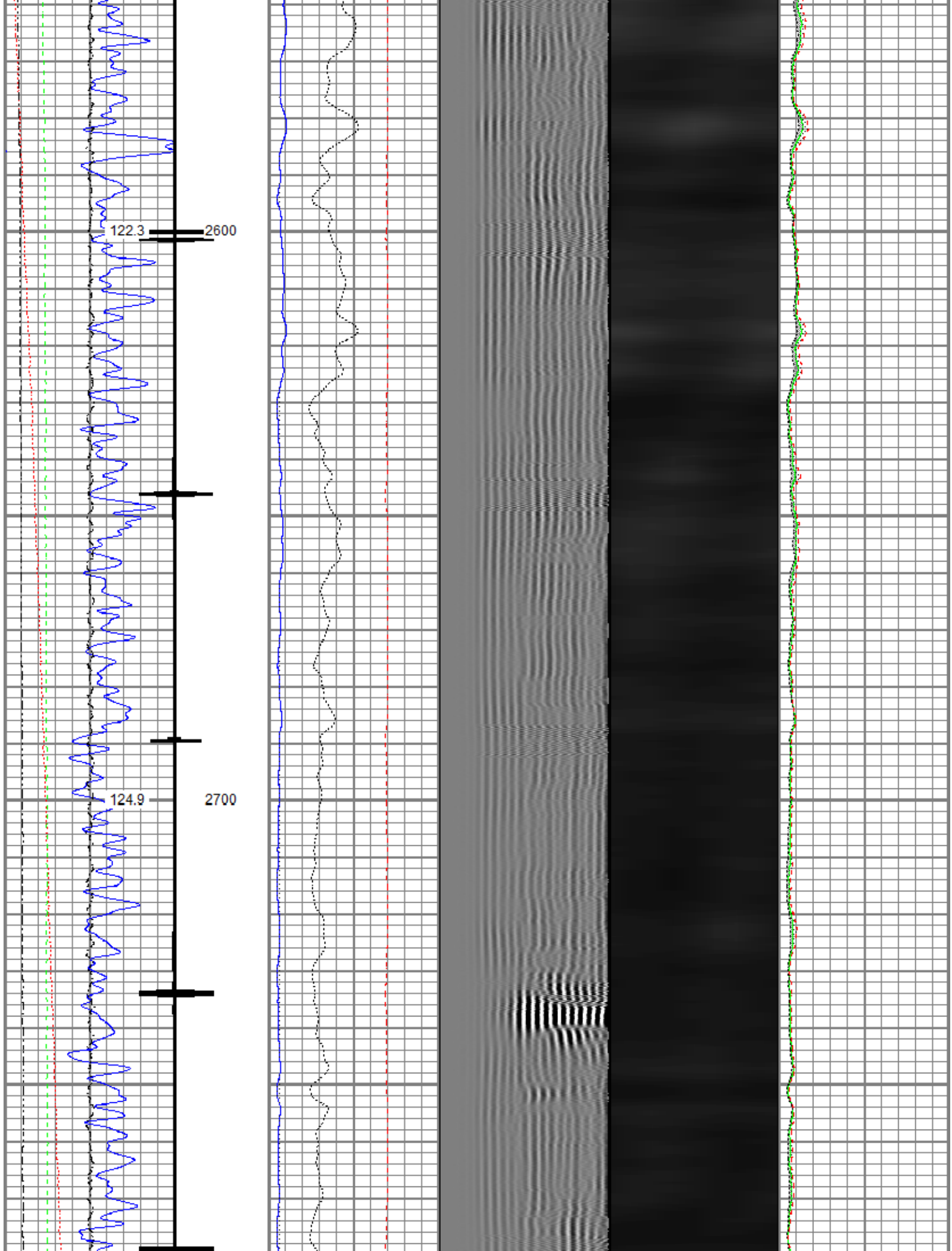


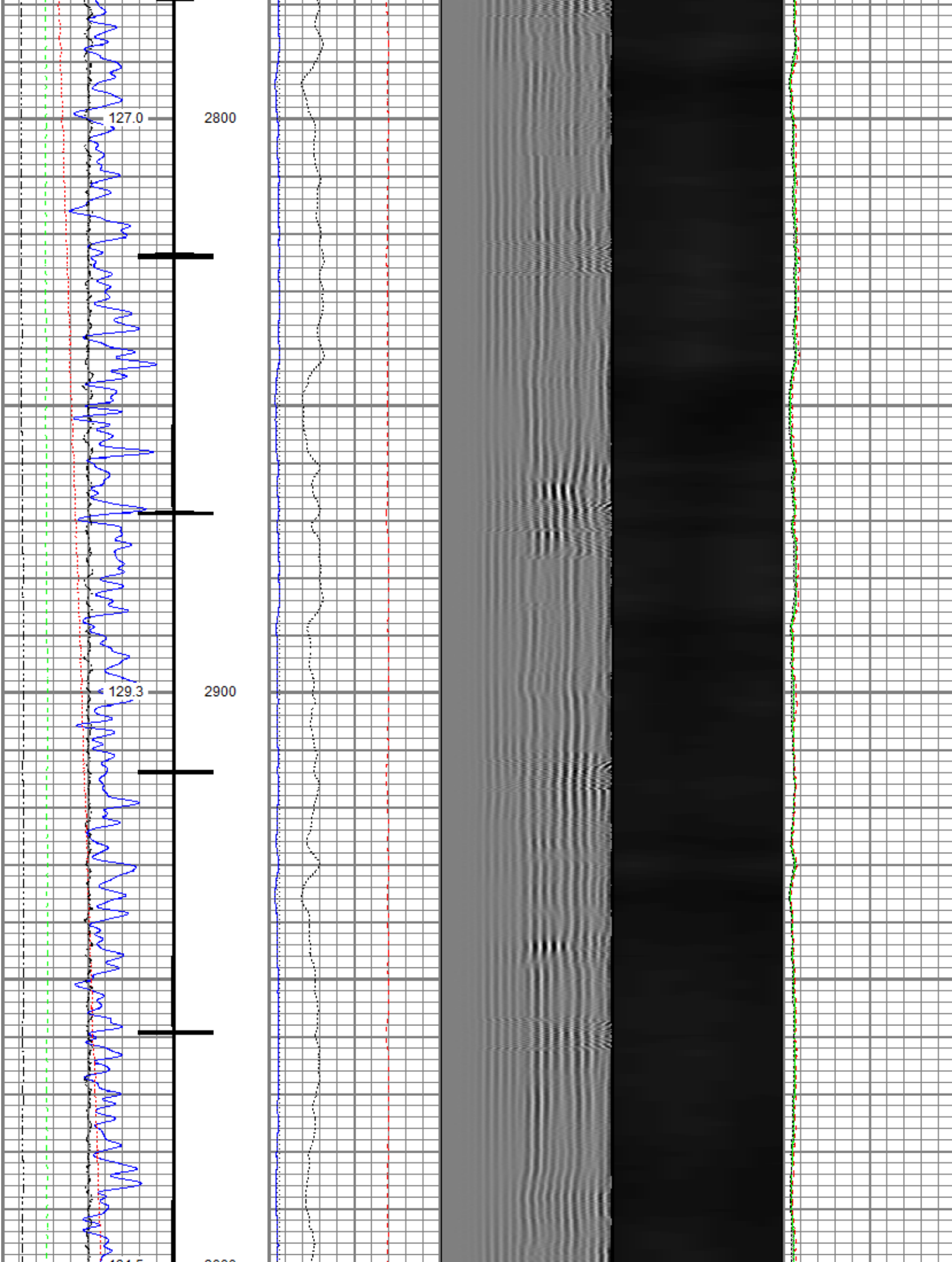


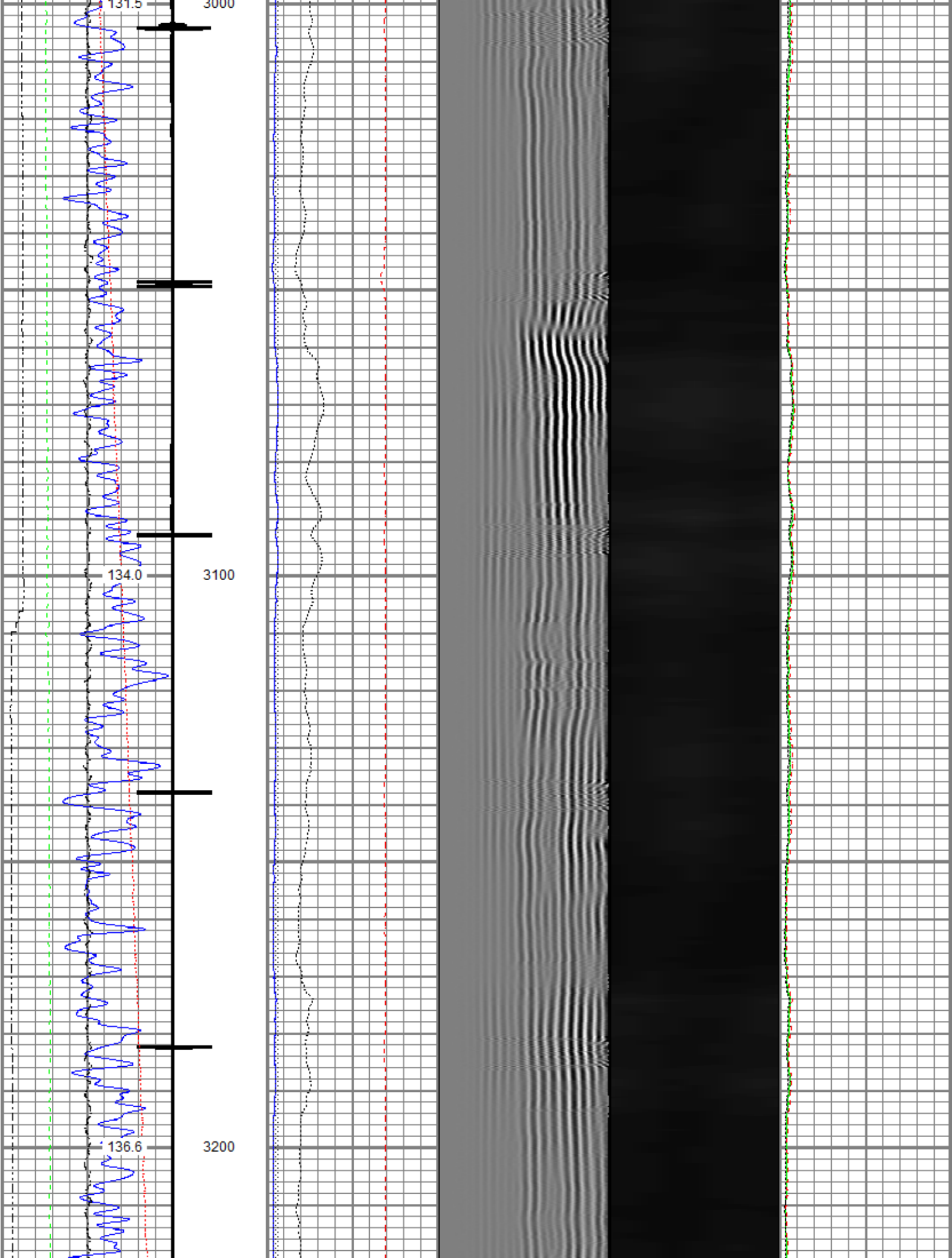


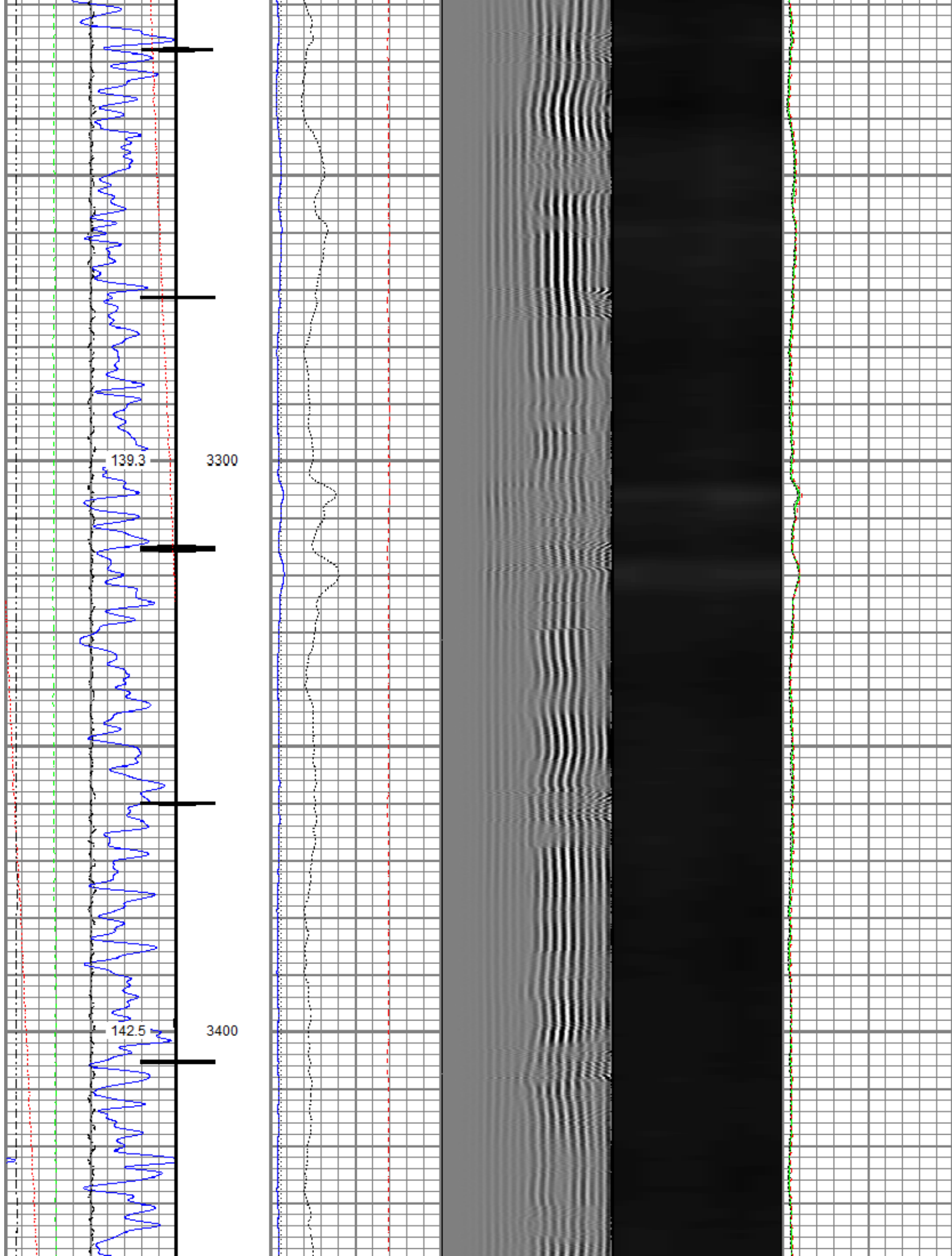


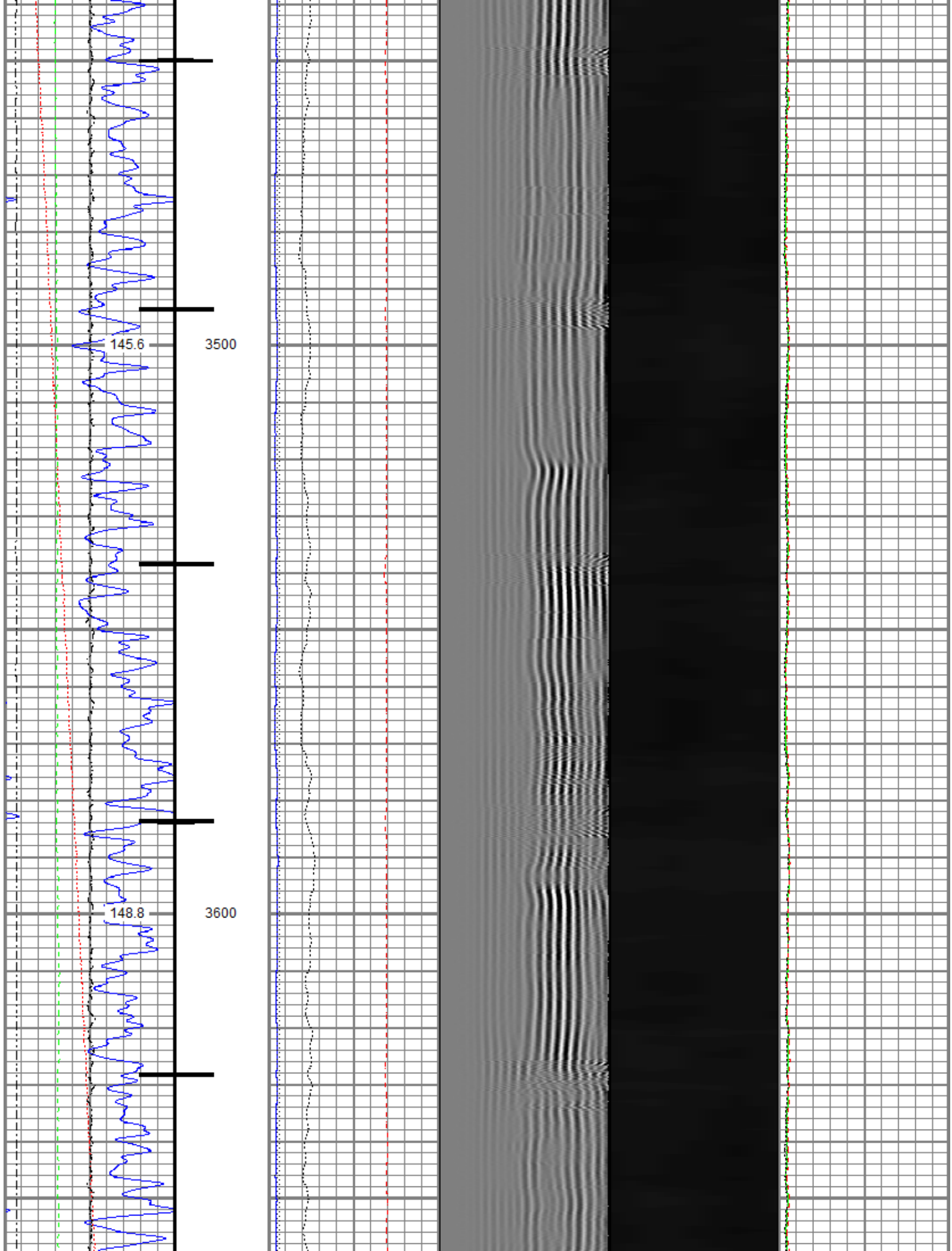


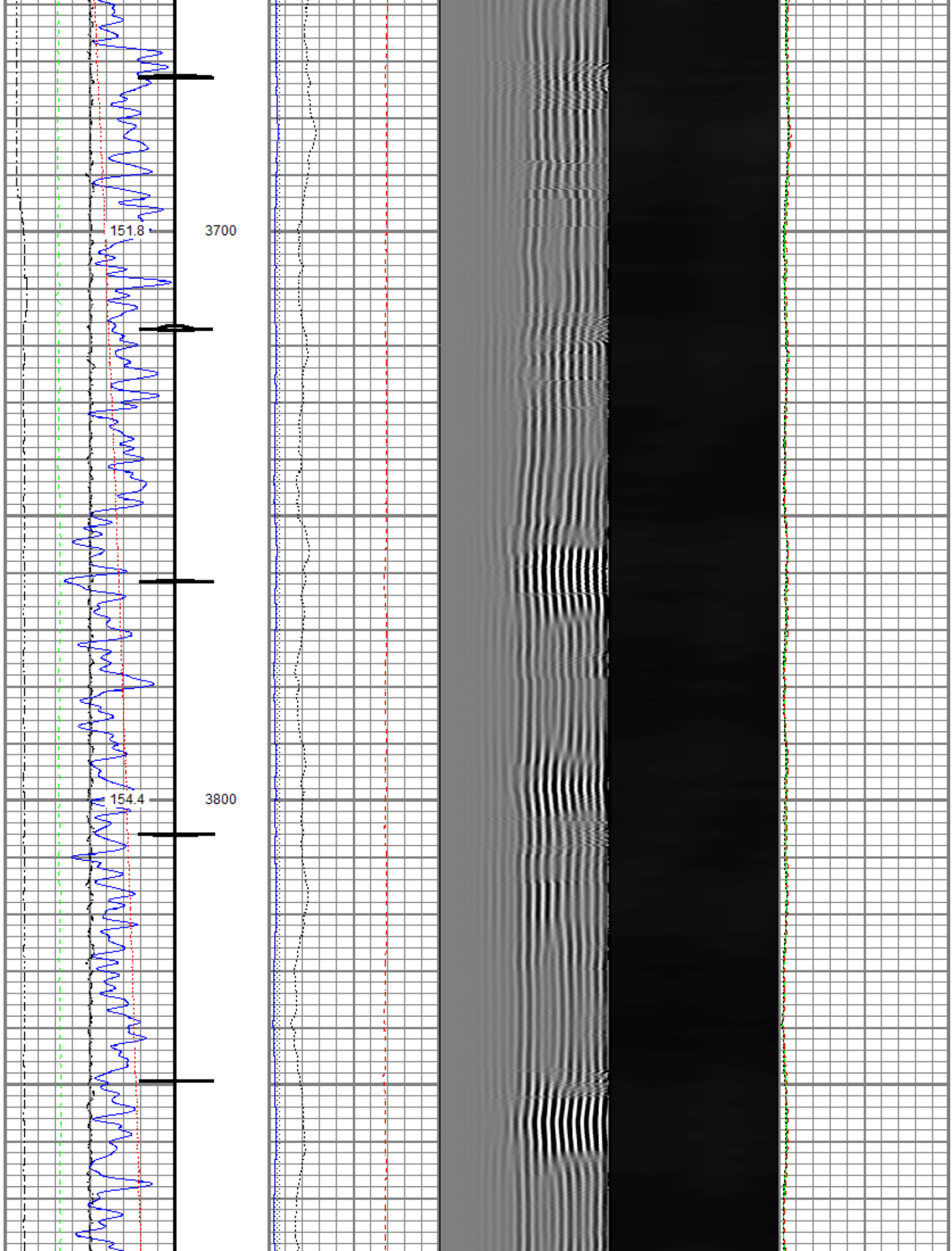


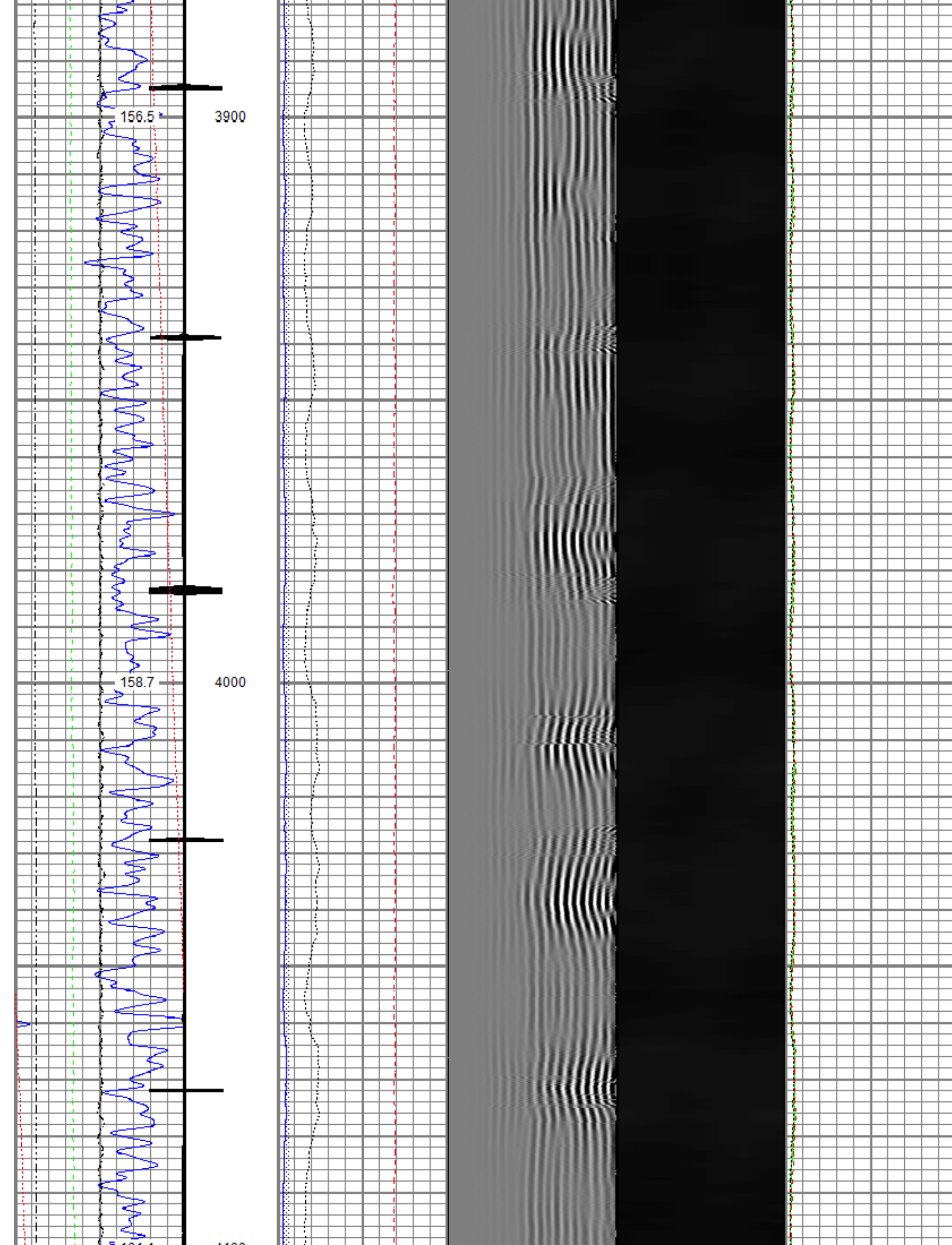


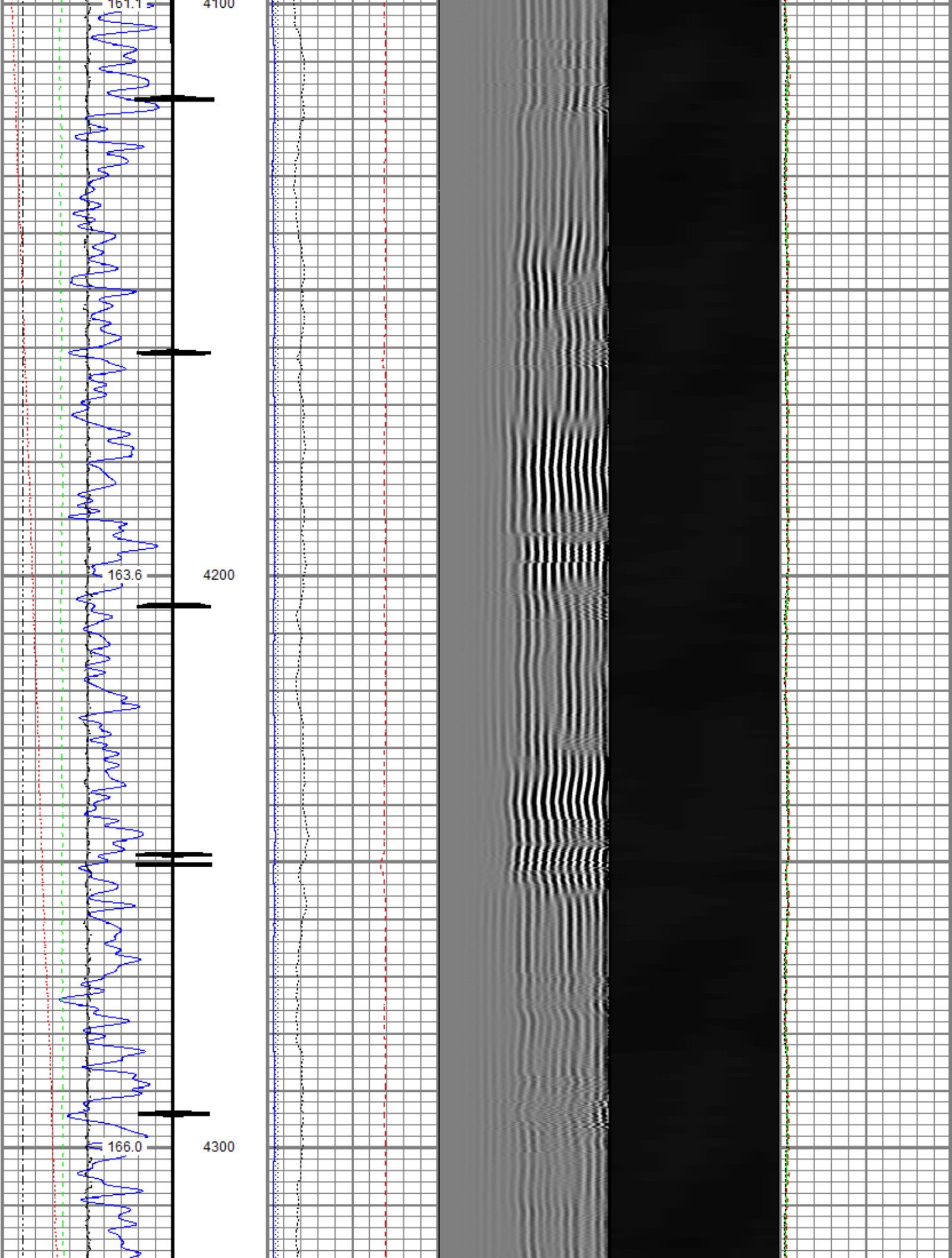


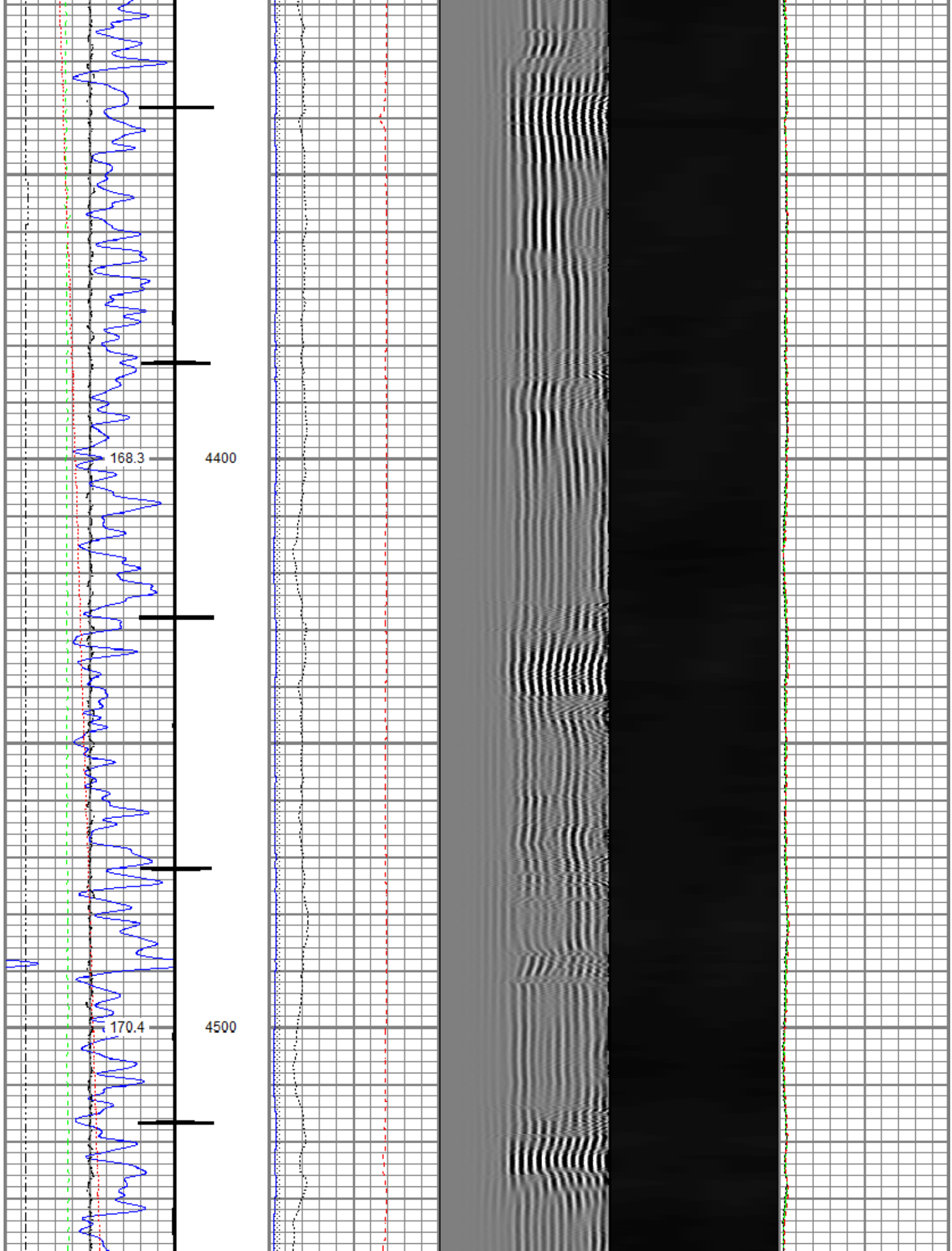


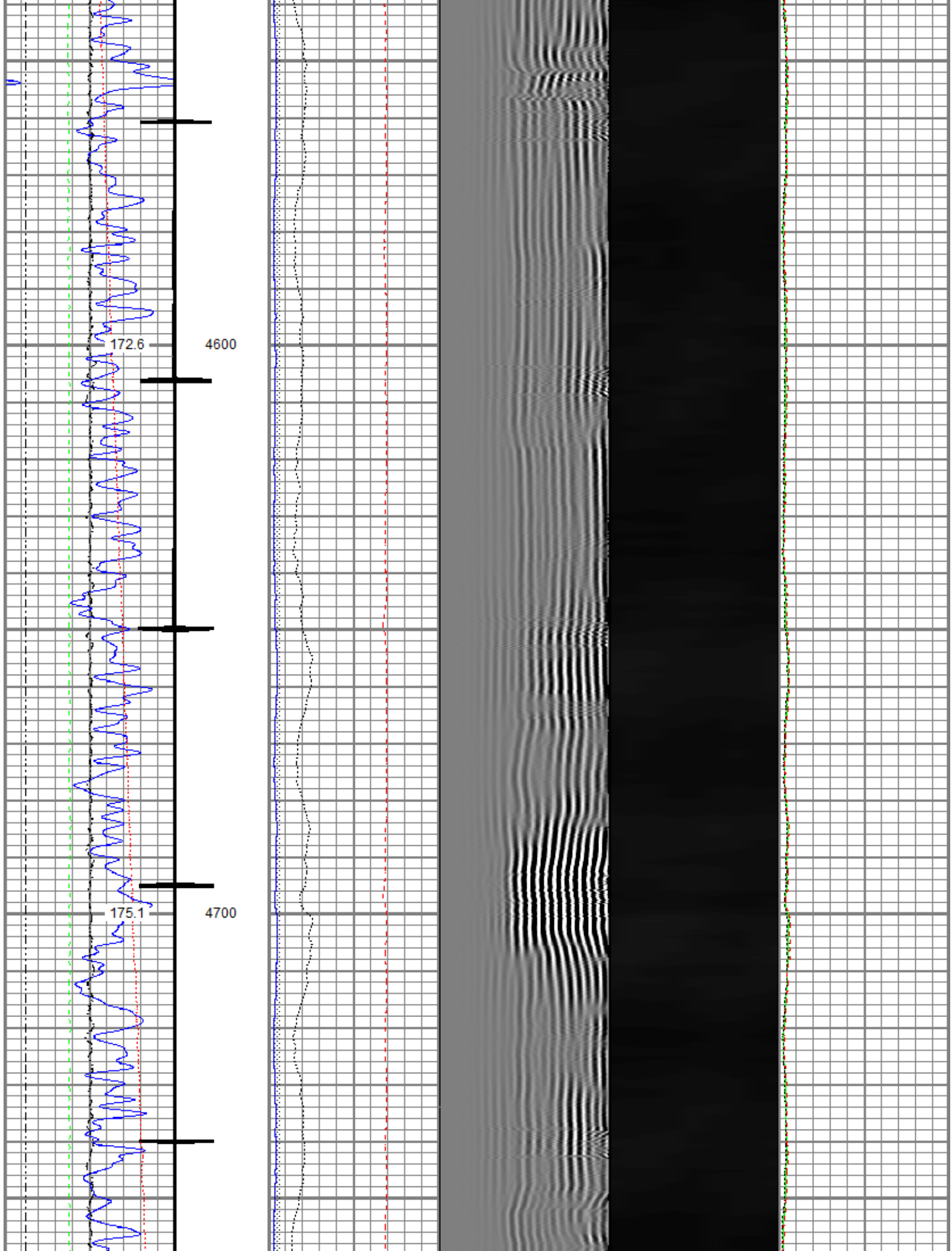


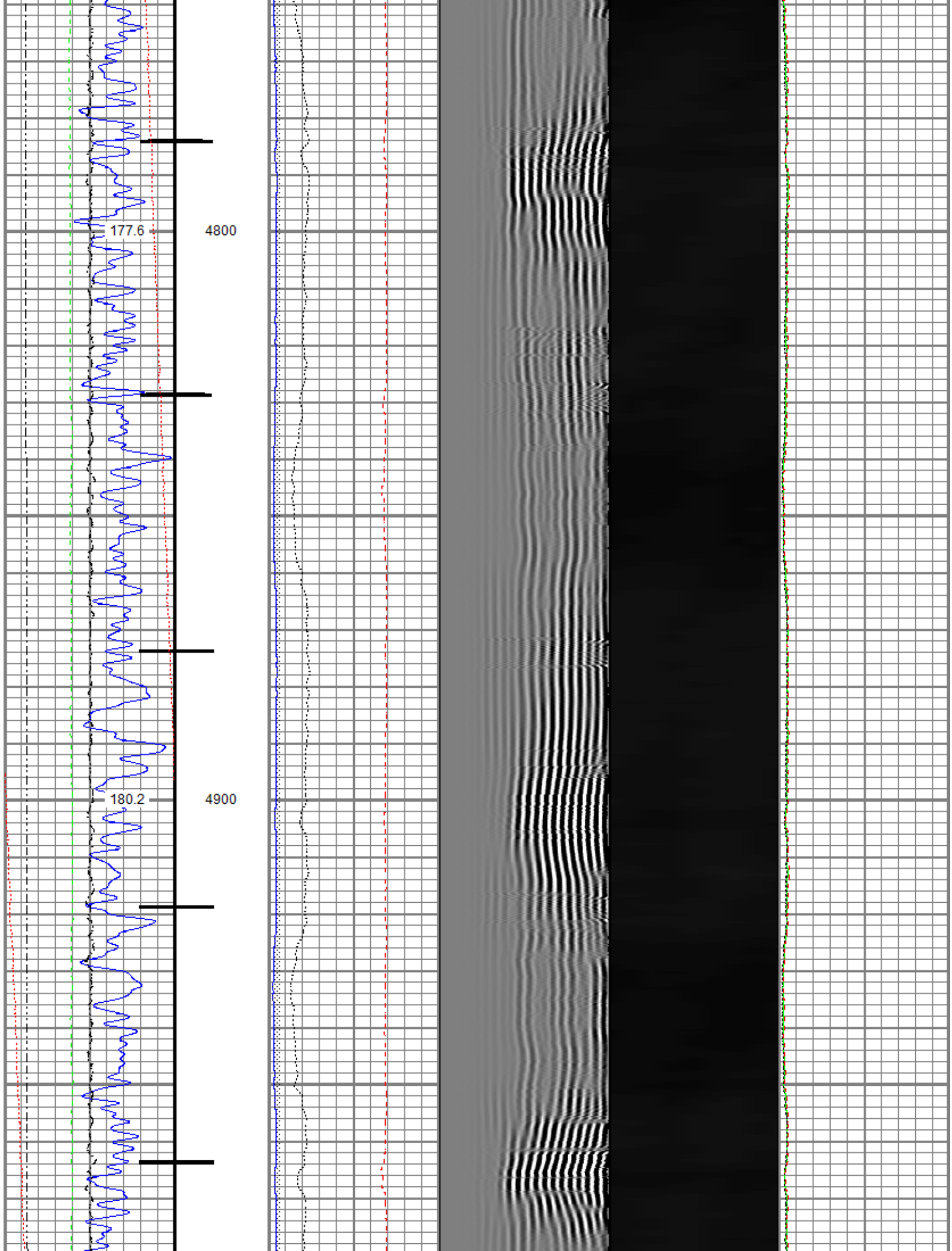


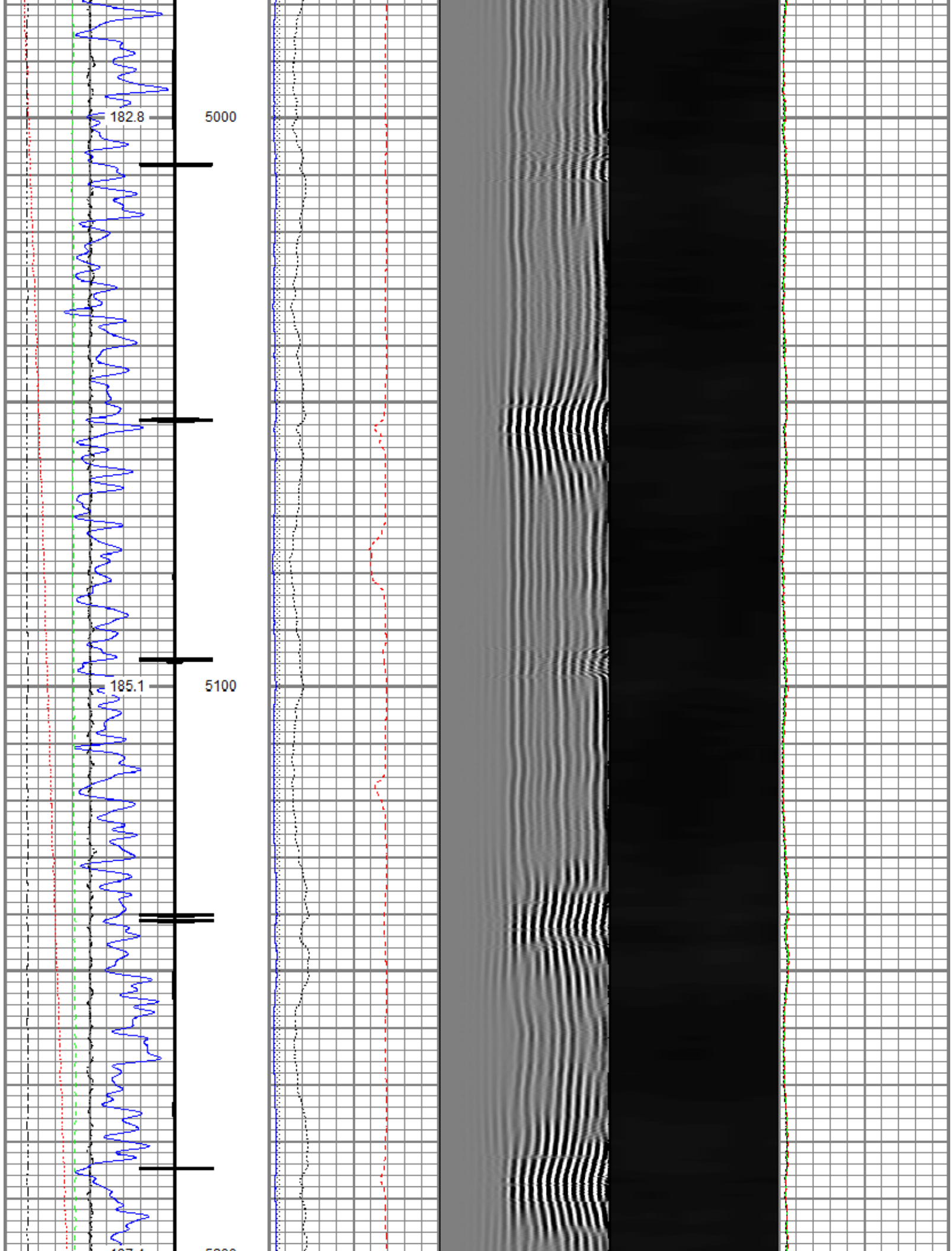


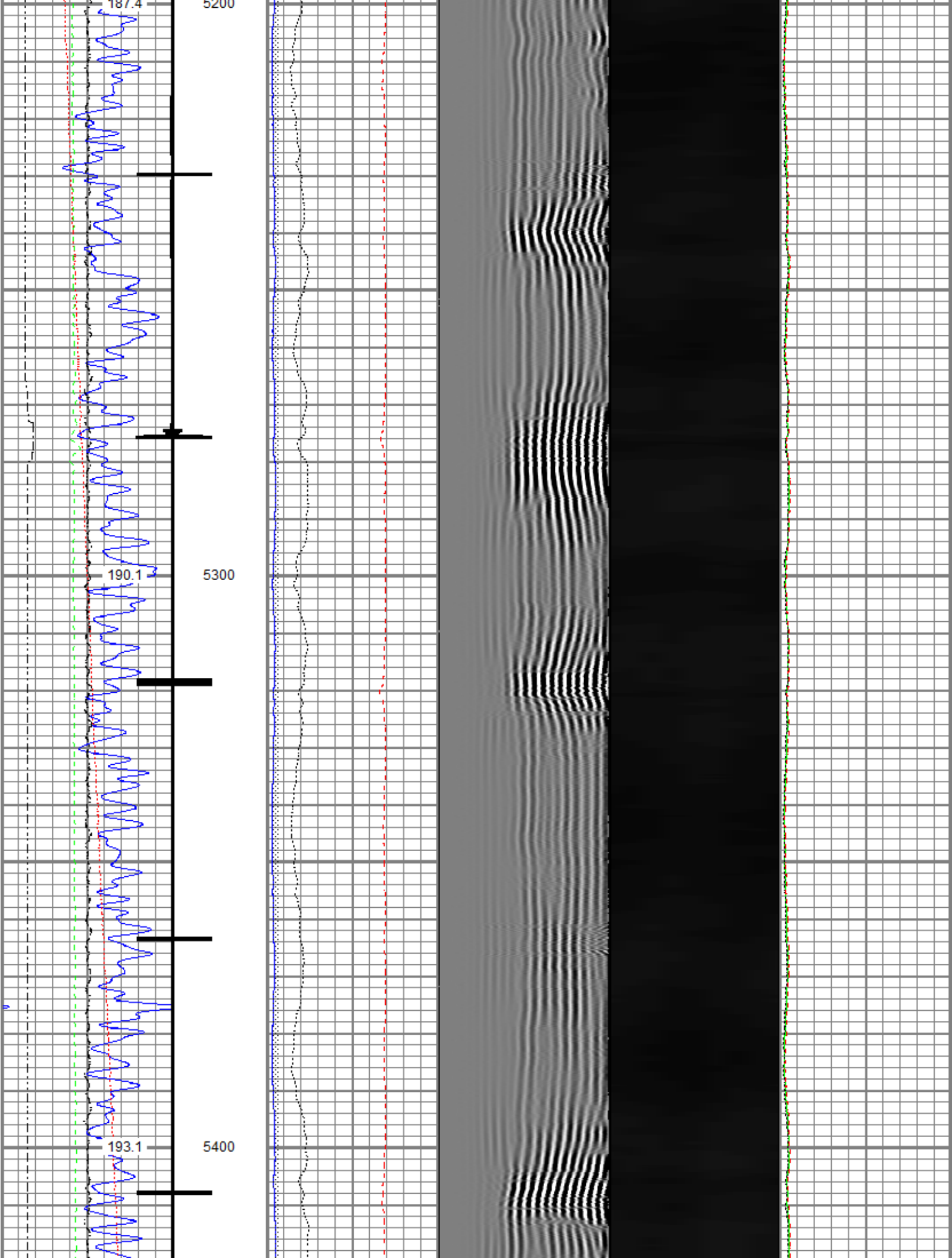


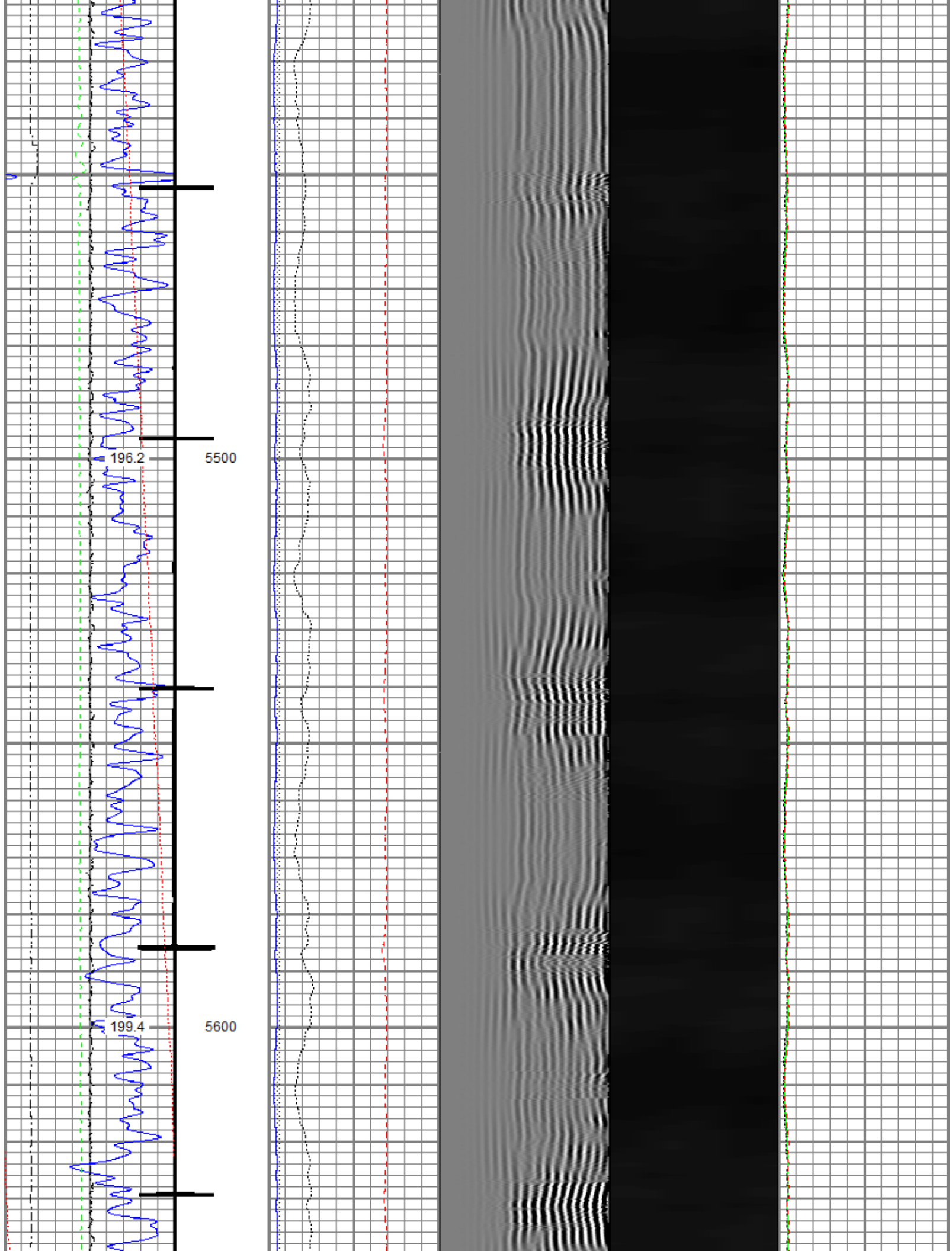


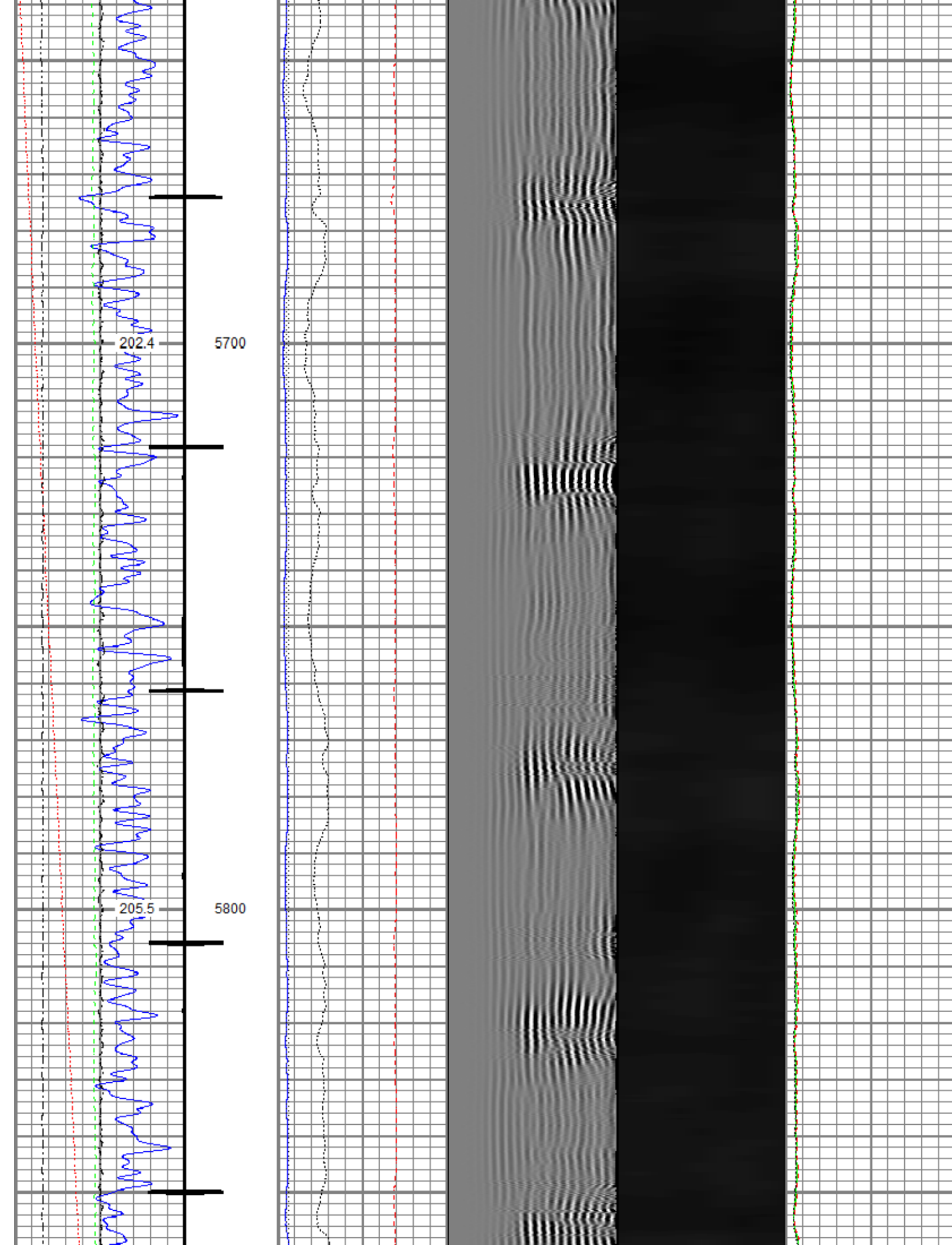


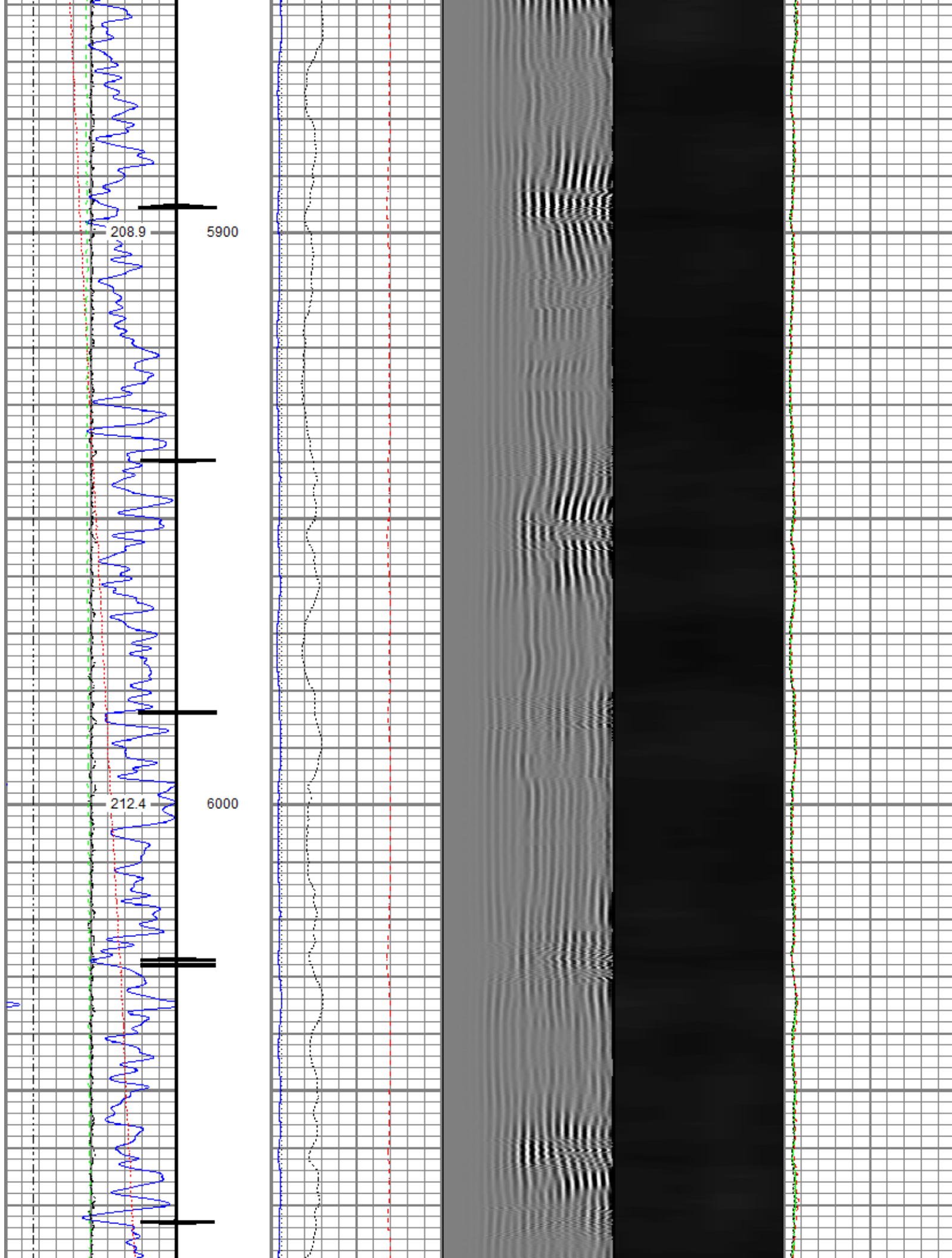


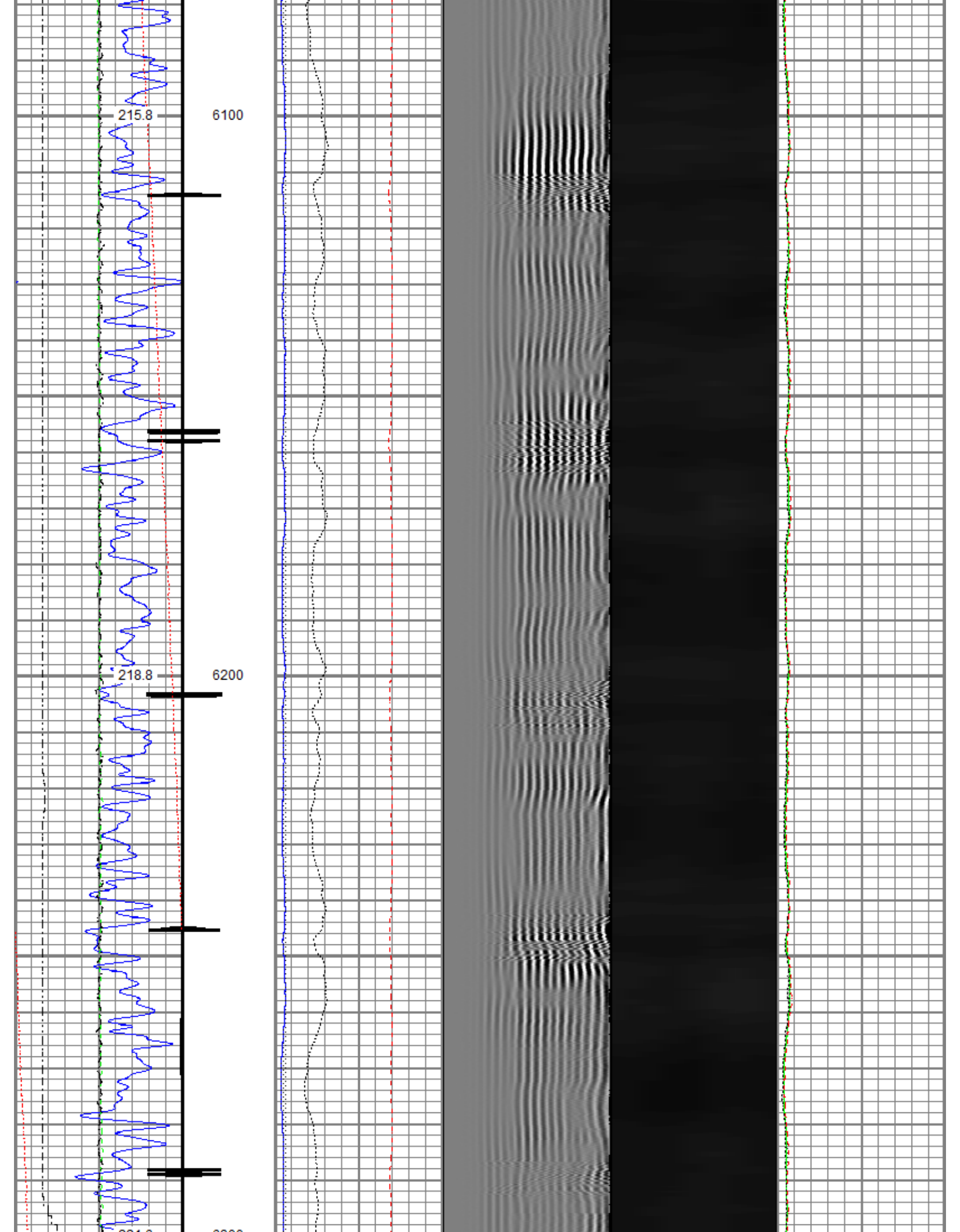


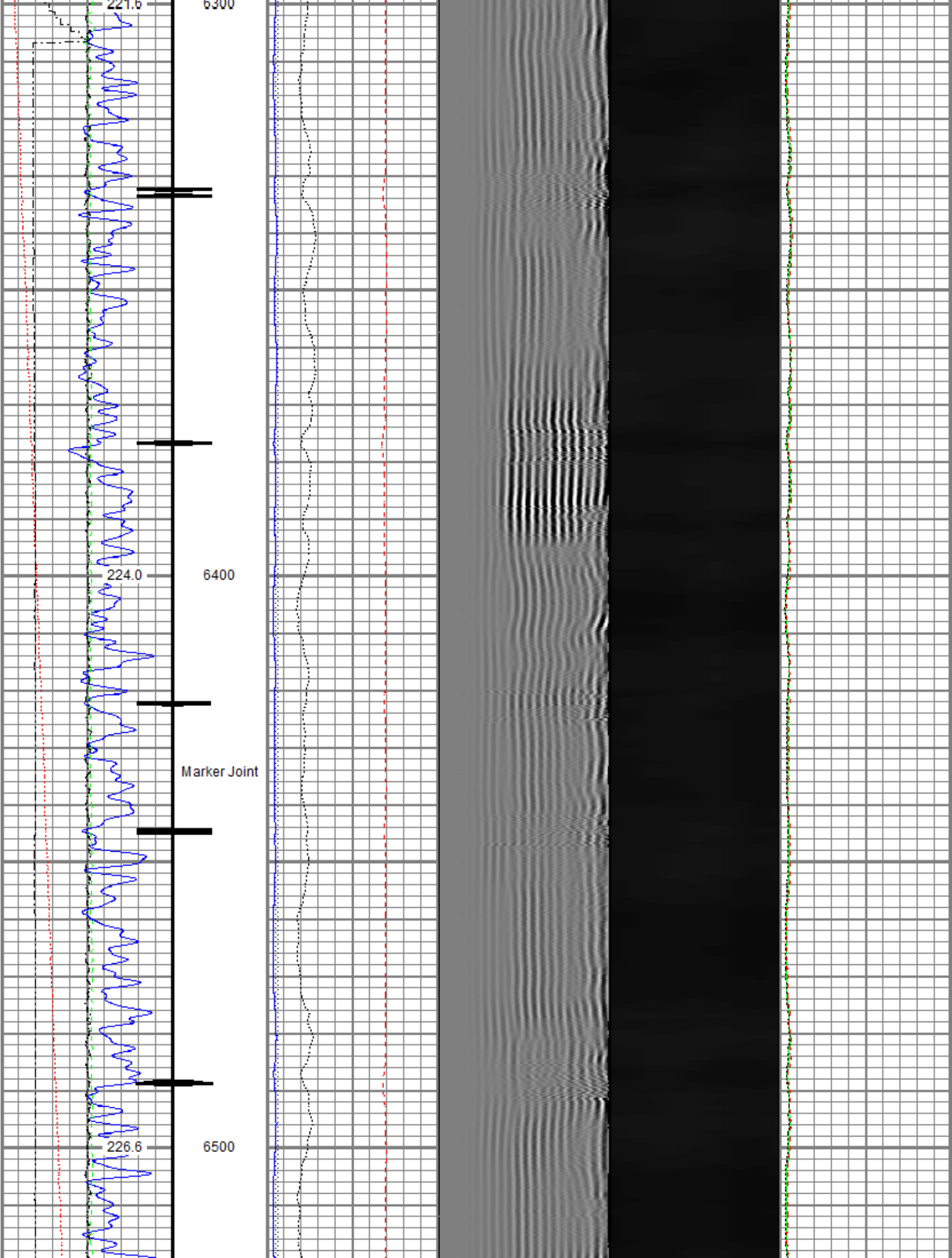


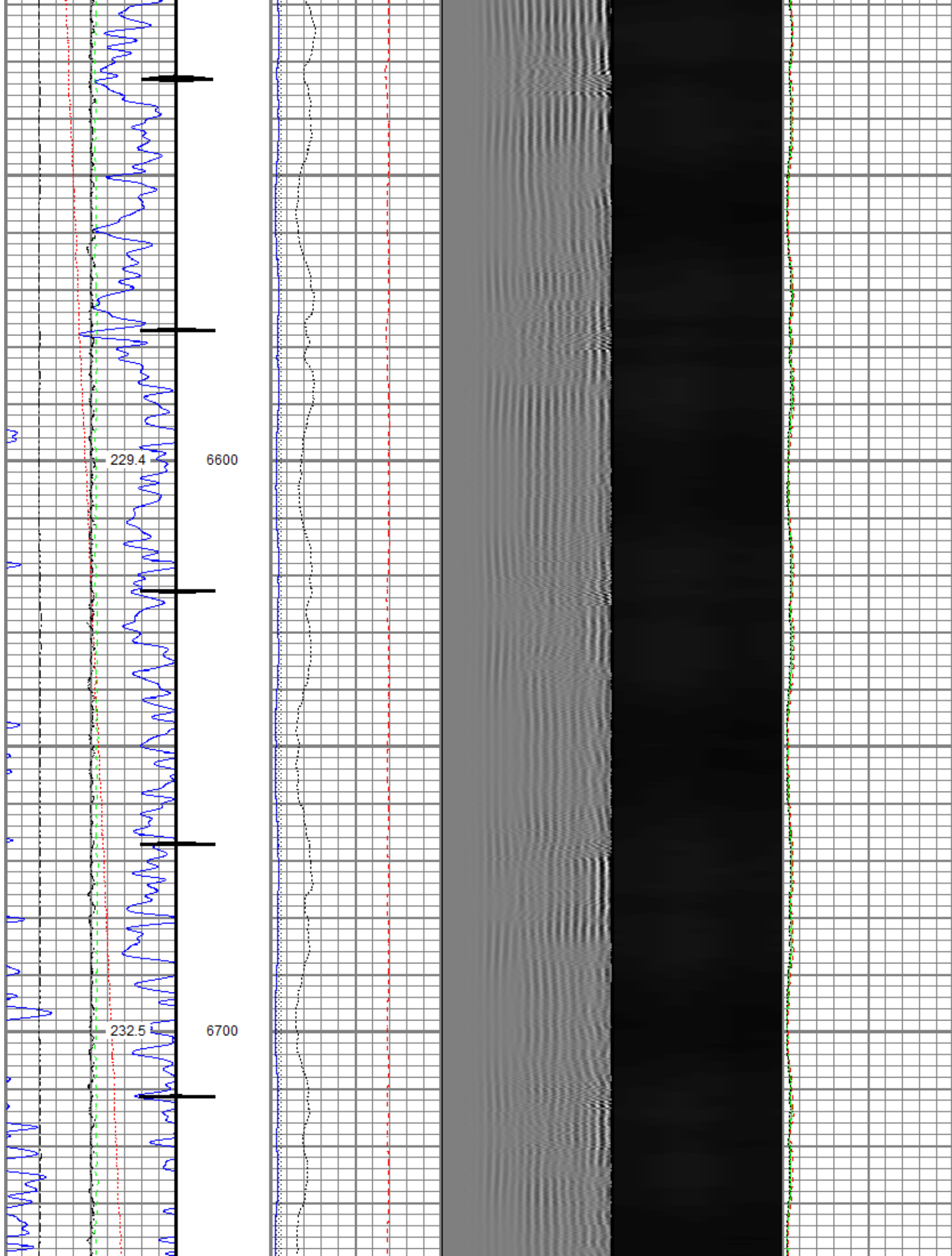


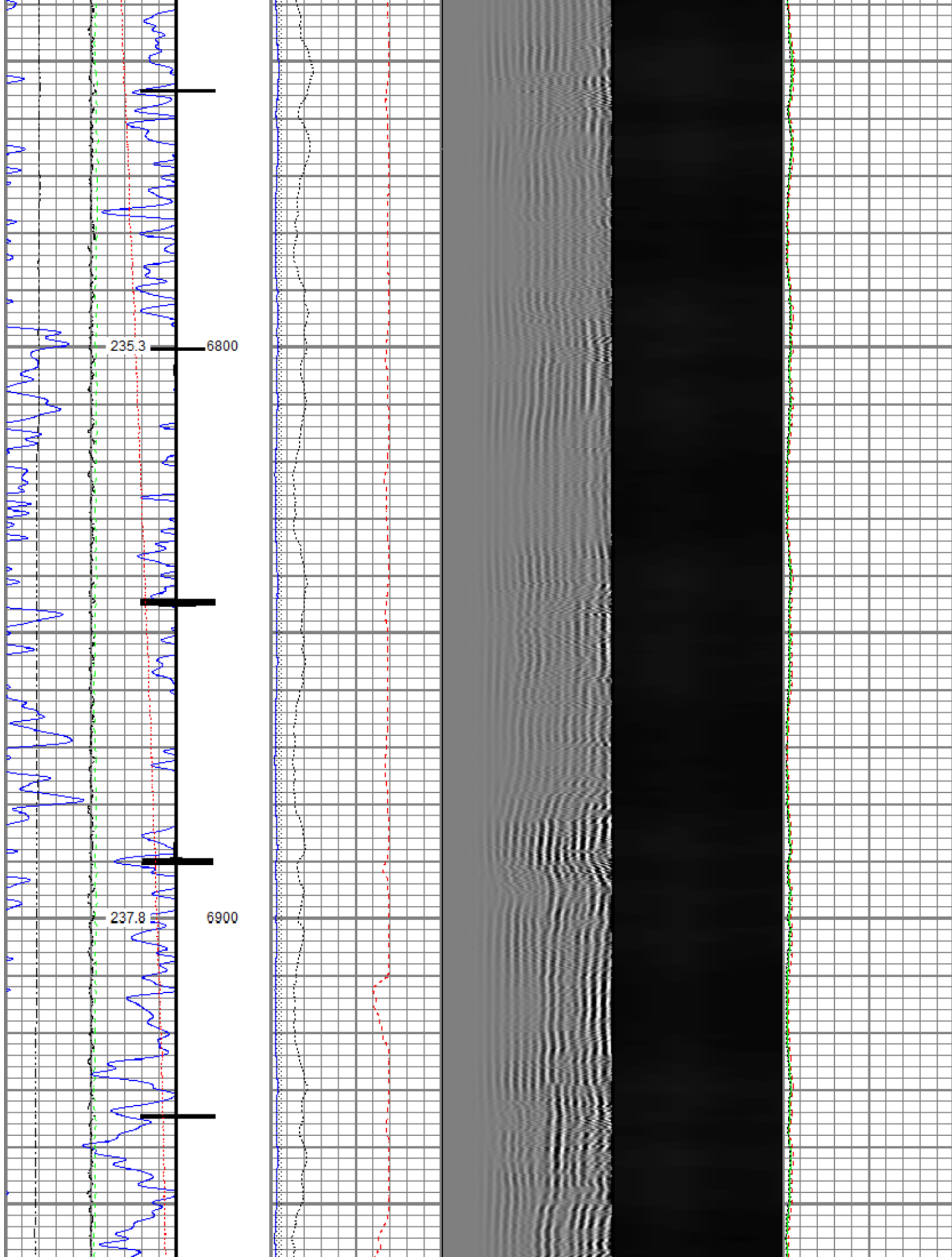


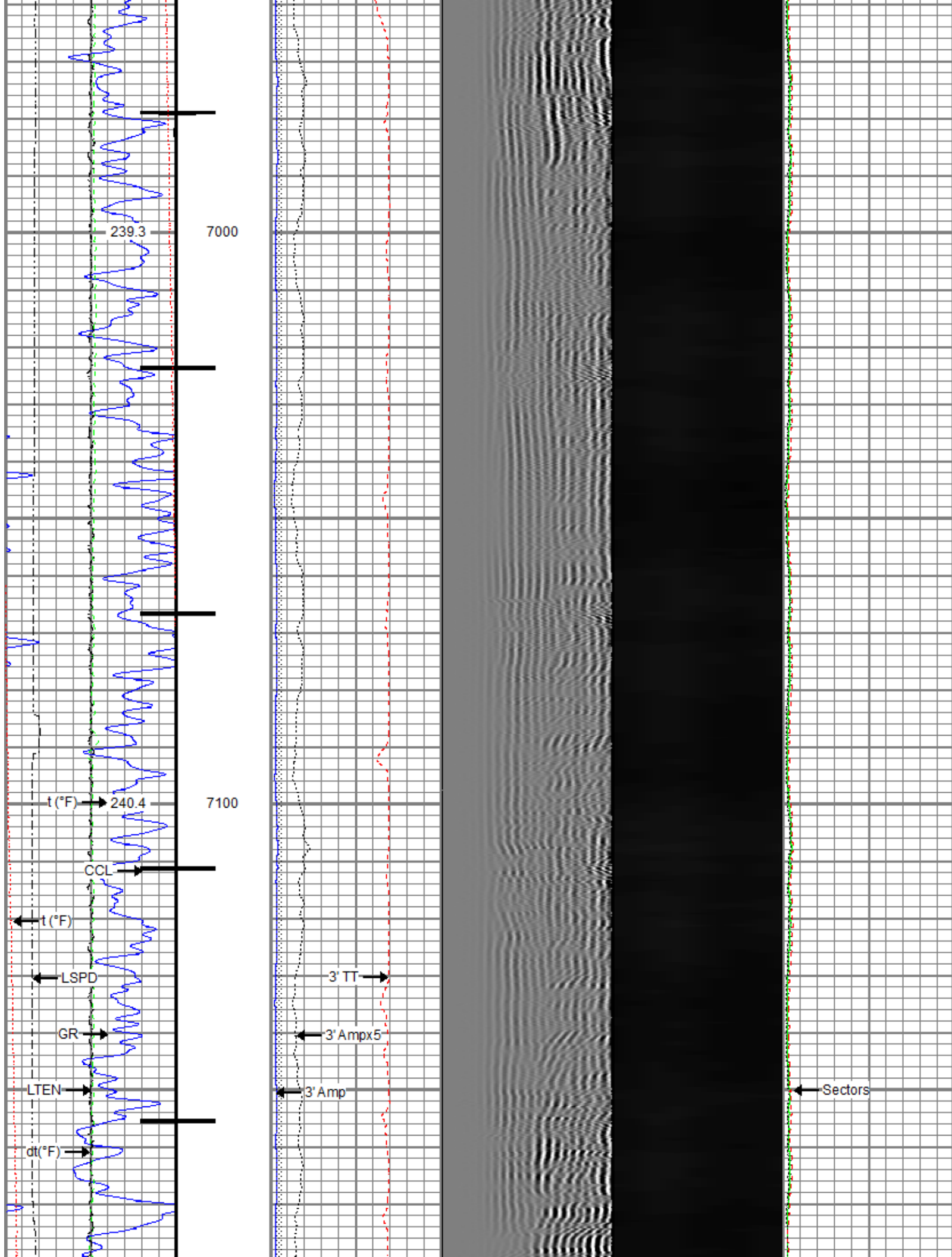


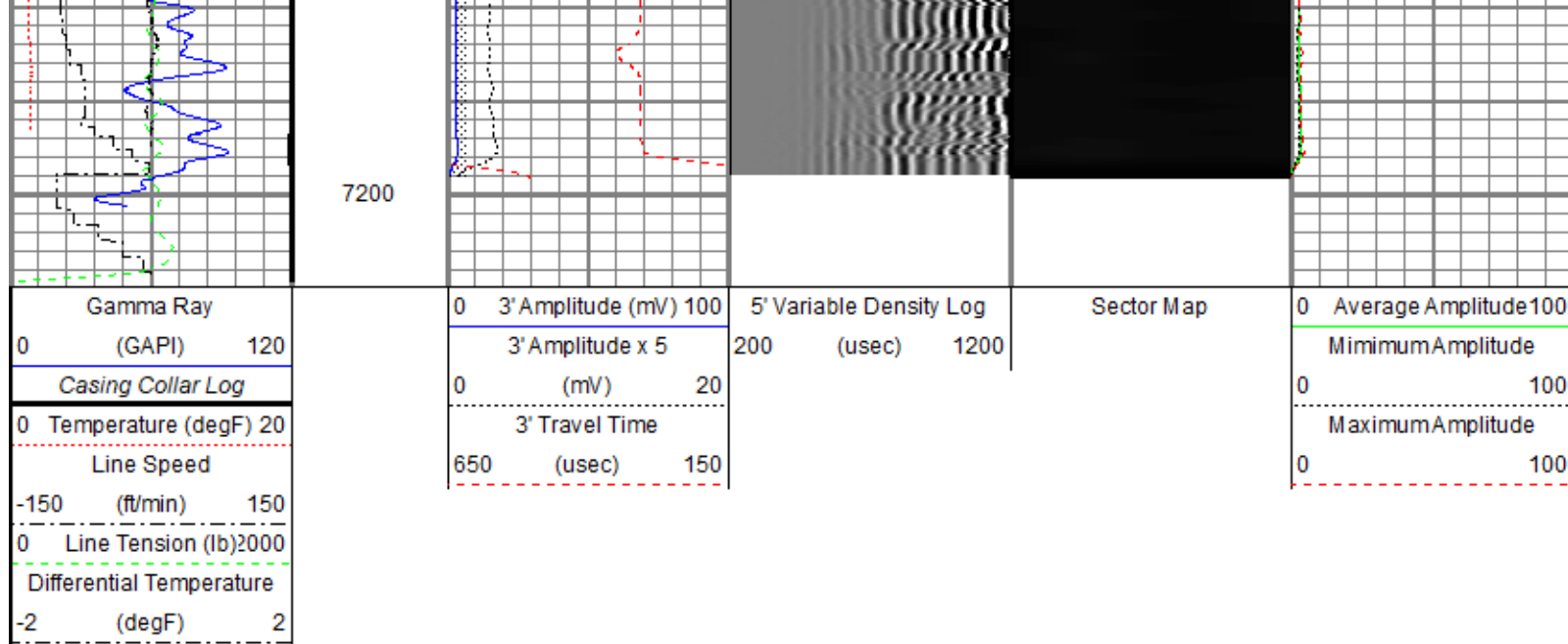








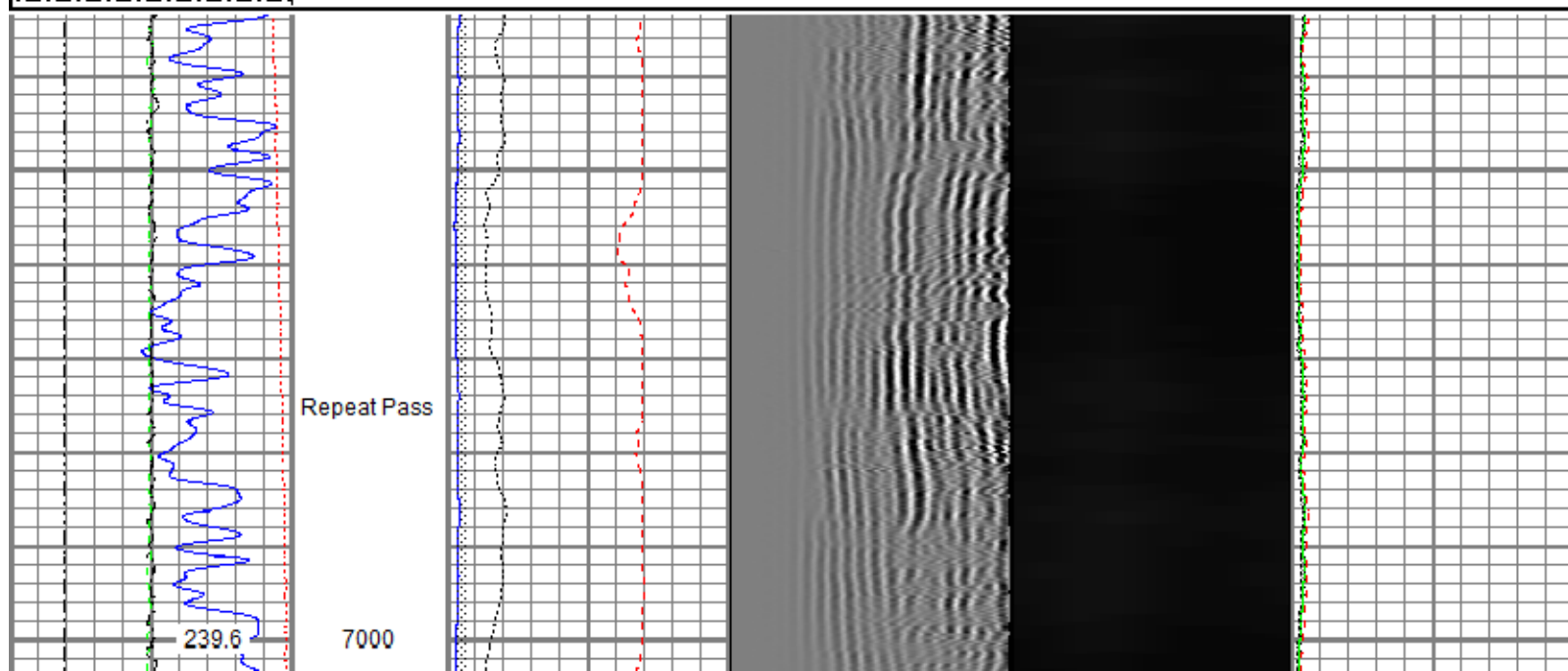
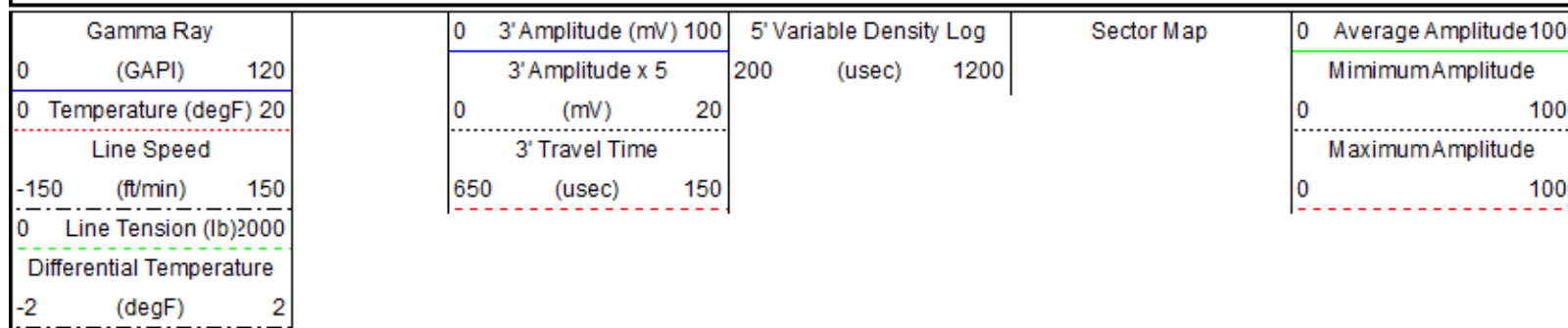


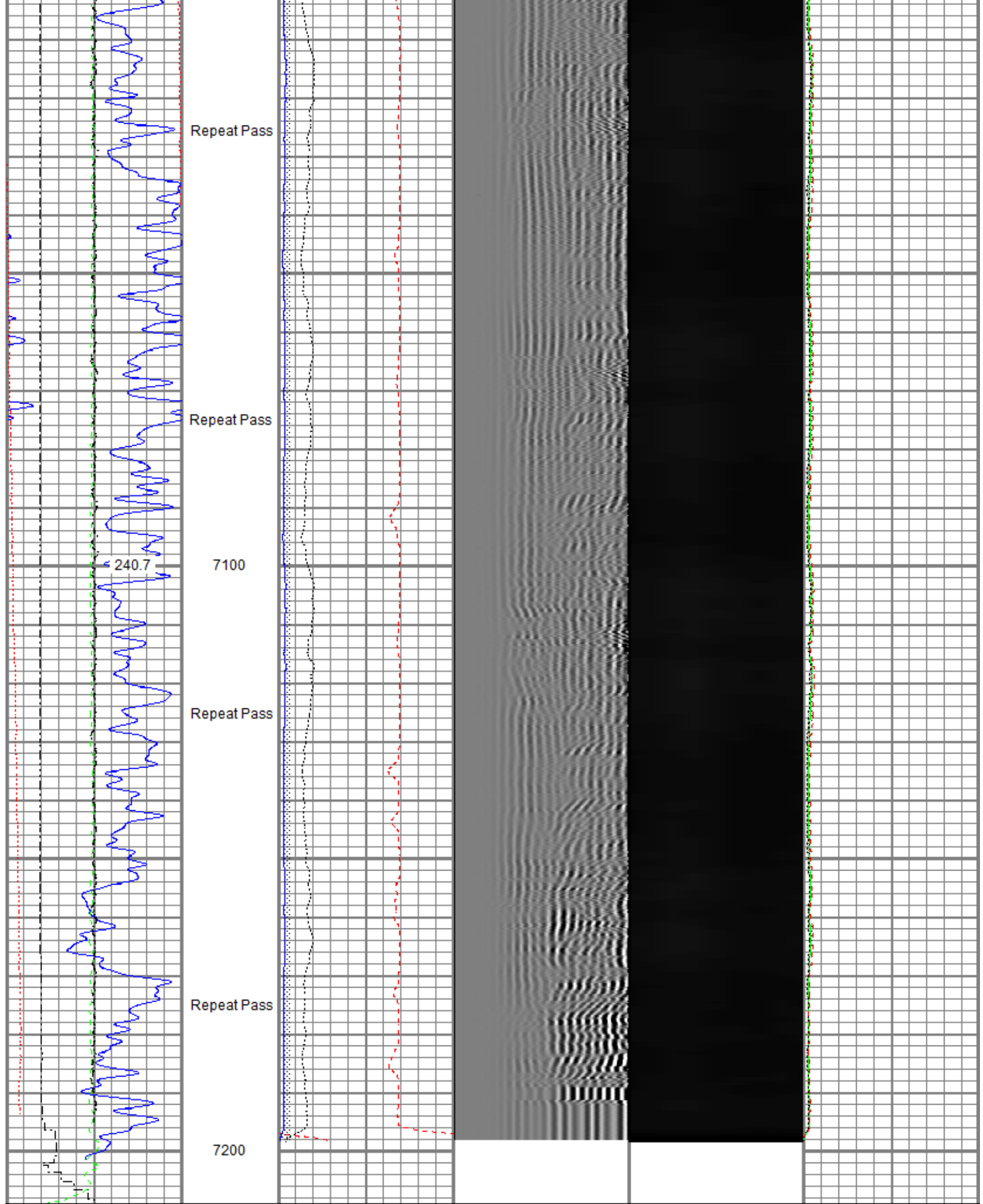


Repeat Pass


Recorded With 2500 PSI Surface Induced Pressure

Database File noble_vogler state d33-769_rbl_04-13-20\noble_vogler state d33-769_rbl_04-13-20.db
 Dataset Pathname repeat
 Presentation Format ros_radri_noble
 Dataset Creation Mon Apr 13 12:20:19 2020
 Charted by Depth in Feet scaled 1:240





Gamma Ray	0 3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0 Average Amplitude 100
0 (GAPI) 120	3' Amplitude x 5	200 (usec) 1200		Minimum Amplitude
0 Temperature (degF) 20	0 (mV) 20			0 100
Line Speed	2' Travel Time			Maximum Amplitude

LOCTIM	0.00				
UTCTIM	0.00				

Dataset:	Noble_Vogler State D33-769_RBL_04-13-20.db: field/well/run1/main
Total length:	18.10 ft
Total weight:	203.60 lb
O.D.:	3.25 in

Calibration Report			
Database File	C:\ProgramData\Warrior\Data\Noble_Vogler State D33-769_RBL_04-13-20\Noble_Vogler State D33-769_RBL_04-13-20.db		
Dataset Pathname	main		
Dataset Creation	Mon Apr 13 12:24:49 2020		

Gamma Ray Calibration Report			
Serial Number:	101001		
Tool Model:	2750 6PB		
Performed:	Tue Dec 03 09:24:53 2019		
Calibrator Value:	637.0	GAPI	
Background Reading:	100.6	cps	
Calibrator Reading:	981.1	cps	
Sensitivity:	0.7235	GAPI/cps	

Segmented Cement Bond Log Calibration Report			
Serial Number:	FW0712-020		
Tool Model:	2750 RBT		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	-3408.067	ft	

Master Calibration, performed (Derived):						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.776	0.800	71.921	91.602	0.798
CAL	0.006	0.667				
5'	0.000	0.764	0.800	71.921	93.147	0.799
SUM						
S1	0.000	0.726	0.000	100.000	137.784	-0.004
S2	0.000	0.727	0.000	100.000	137.617	-0.003
S3	0.000	0.762	0.000	100.000	131.212	-0.002
S4	0.000	0.813	0.000	100.000	123.017	-0.003
S5	0.000	0.856	0.000	100.000	116.833	-0.003
S6	0.000	0.844	0.000	100.000	118.510	-0.003
S7	0.000	0.815	0.000	100.000	122.758	-0.003
S8	0.000	0.764	0.000	100.000	130.872	-0.003

Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.667	1.000	0.000

Air Zero Calibration, performed Mon Apr 13 09:48:18 2020:						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
0'	0.000		0.000		0.000	

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

Temperature Calibration Report

Serial Number: FW0712-020
Tool Model: 2750 RBT
Performed: Tue Dec 03 09:24:53 2019

	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF
Gain:	0.84	
Offset:	7.72	
Delta Spacing	1	



Company Noble Energy Inc
Well Vogler State D33-769
Field Wattenberg
County Weld
State Colorado