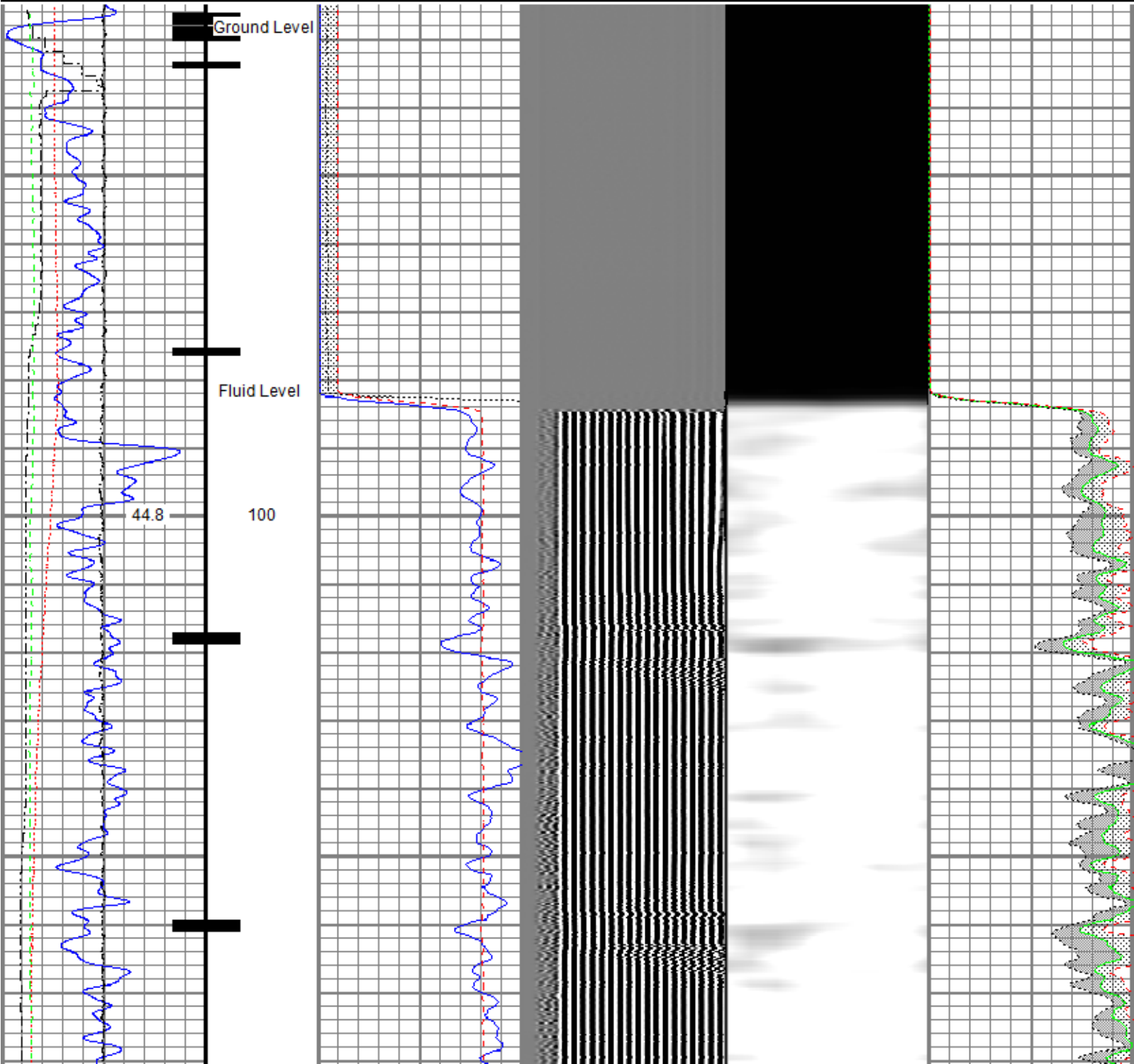
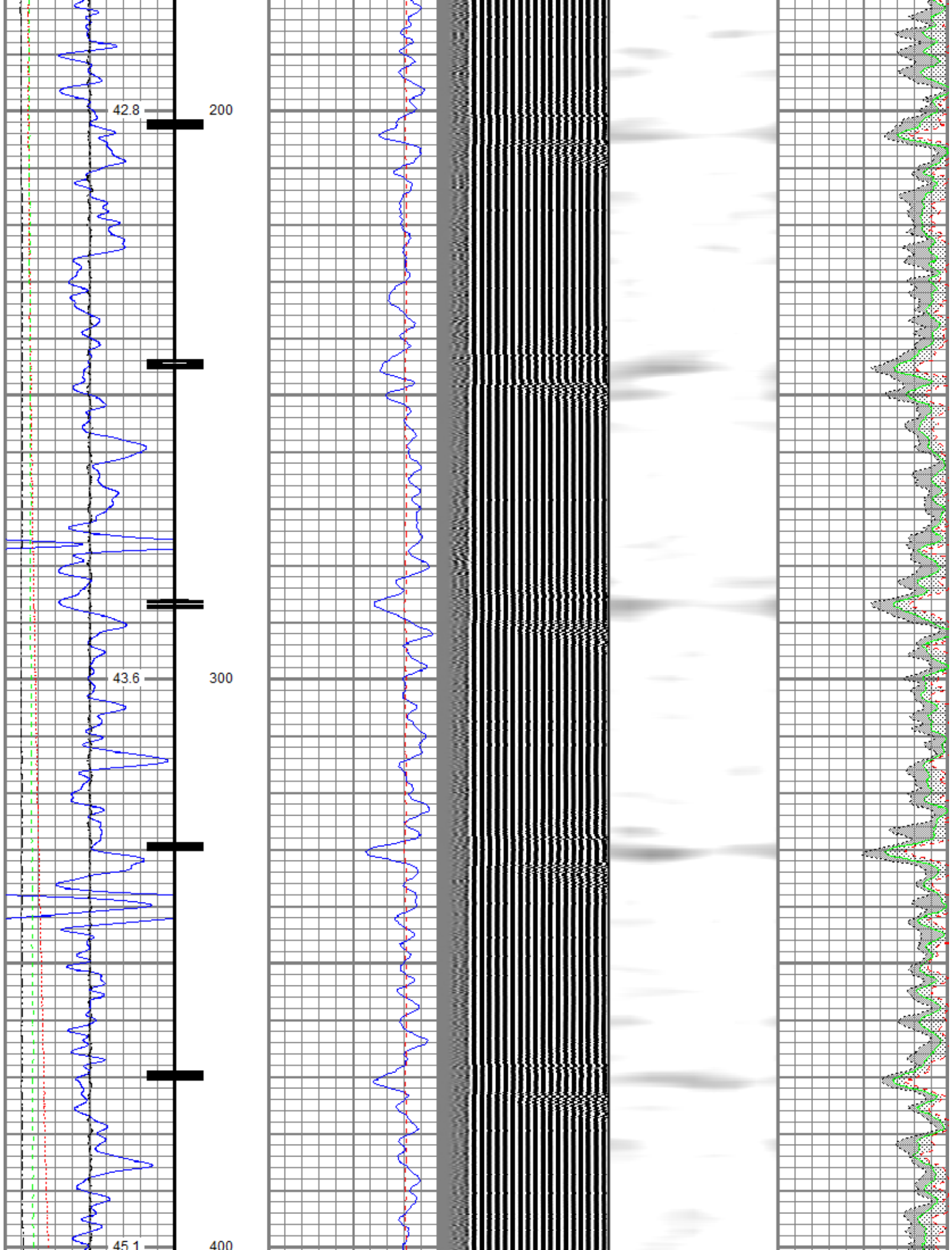


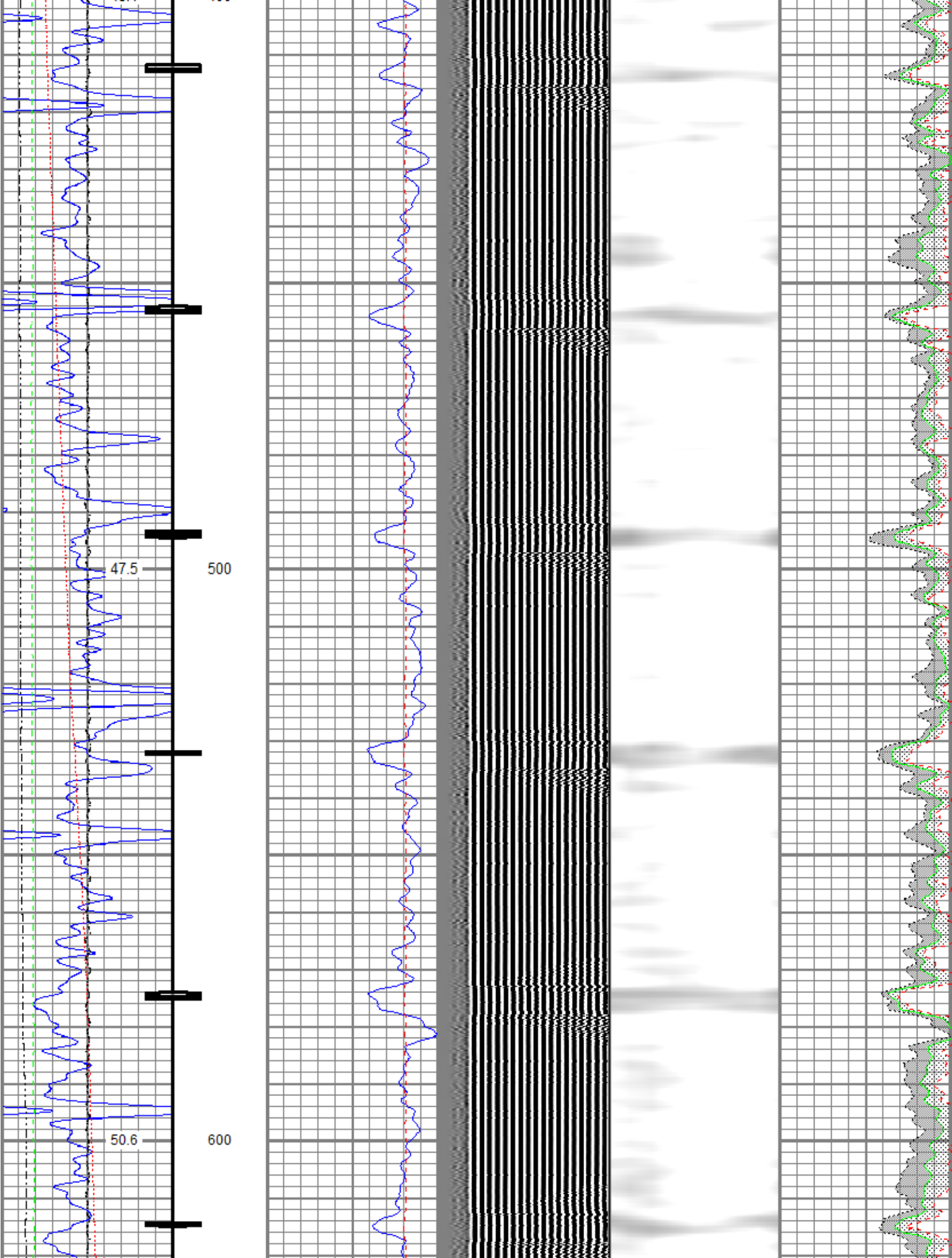
Recorded with 0 PSI Surface Induced Pressure

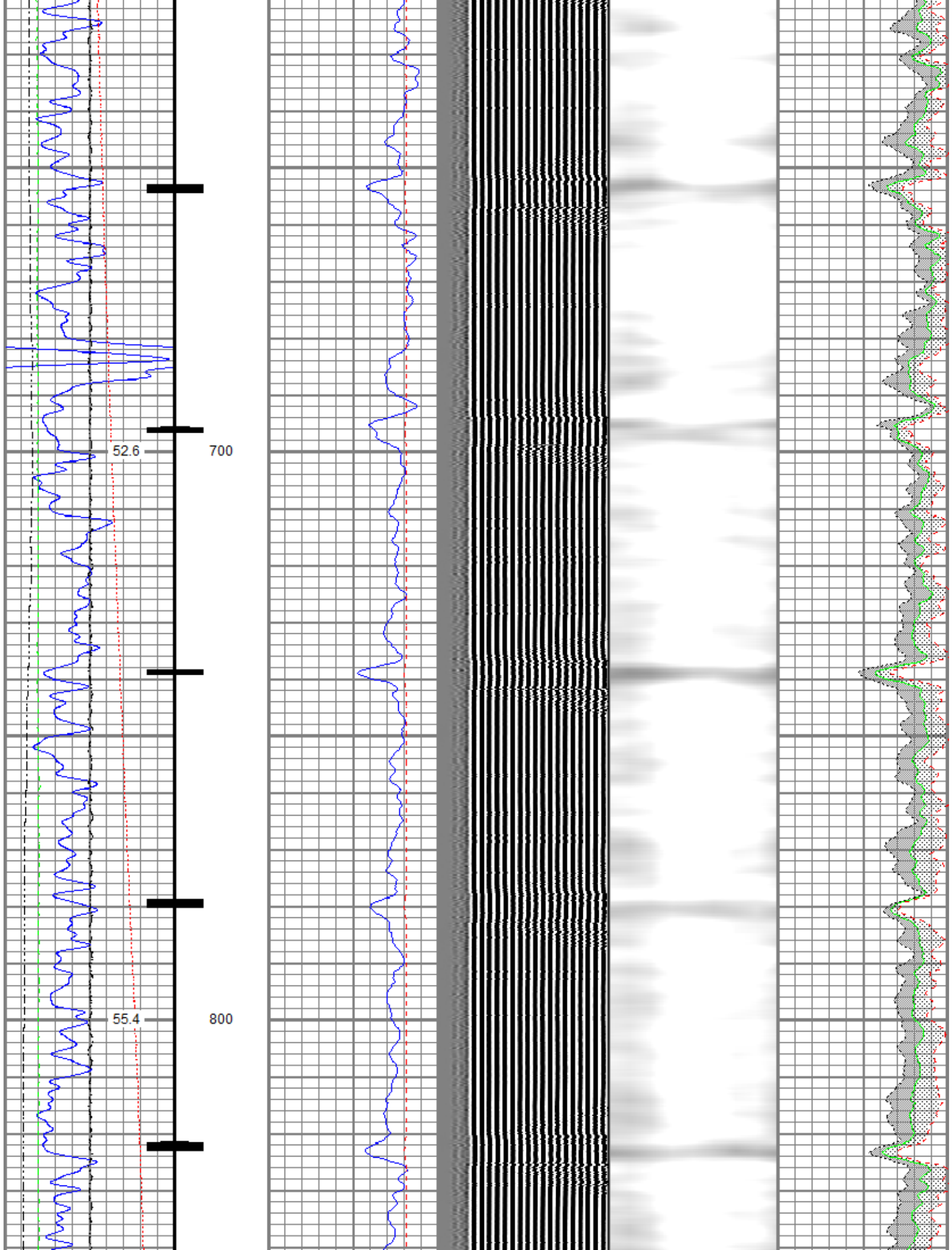
Database File	laramie\laramie energy_cc federal 0697-03-08w_rbl_09-03-19\processed_laramie energy_cc federal 0697-03-08w_rbl_09-03-		
Dataset Pathname	main.2		
Presentation Format	ros_radri		
Dataset Creation	Mon Sep 09 11:35:40 2019		
Charted by	Depth in Feet scaled 1:240		

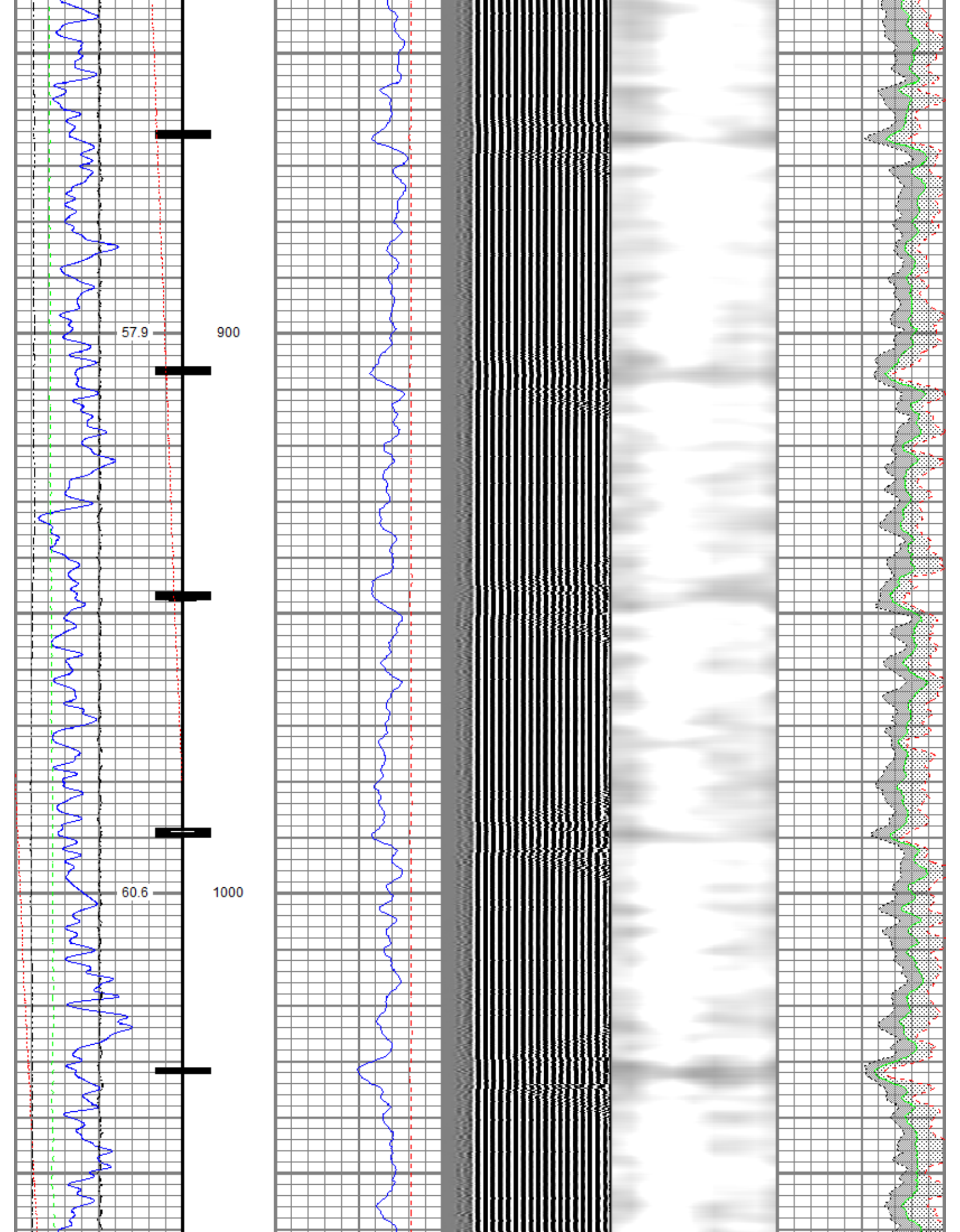
Gamma Ray (GAPI)	0 3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0 Average Amplitude 100
Casing Collar Locator	0 3' Amplitude x 5 200 (usec) 1200			Minimum Amplitude
Temperature (degF)	0 (mV) 20			0 100
Line Speed	3' Travel Time			Maximum Amplitude
-150 (ft/min) 150	650 (usec) 150			0 100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

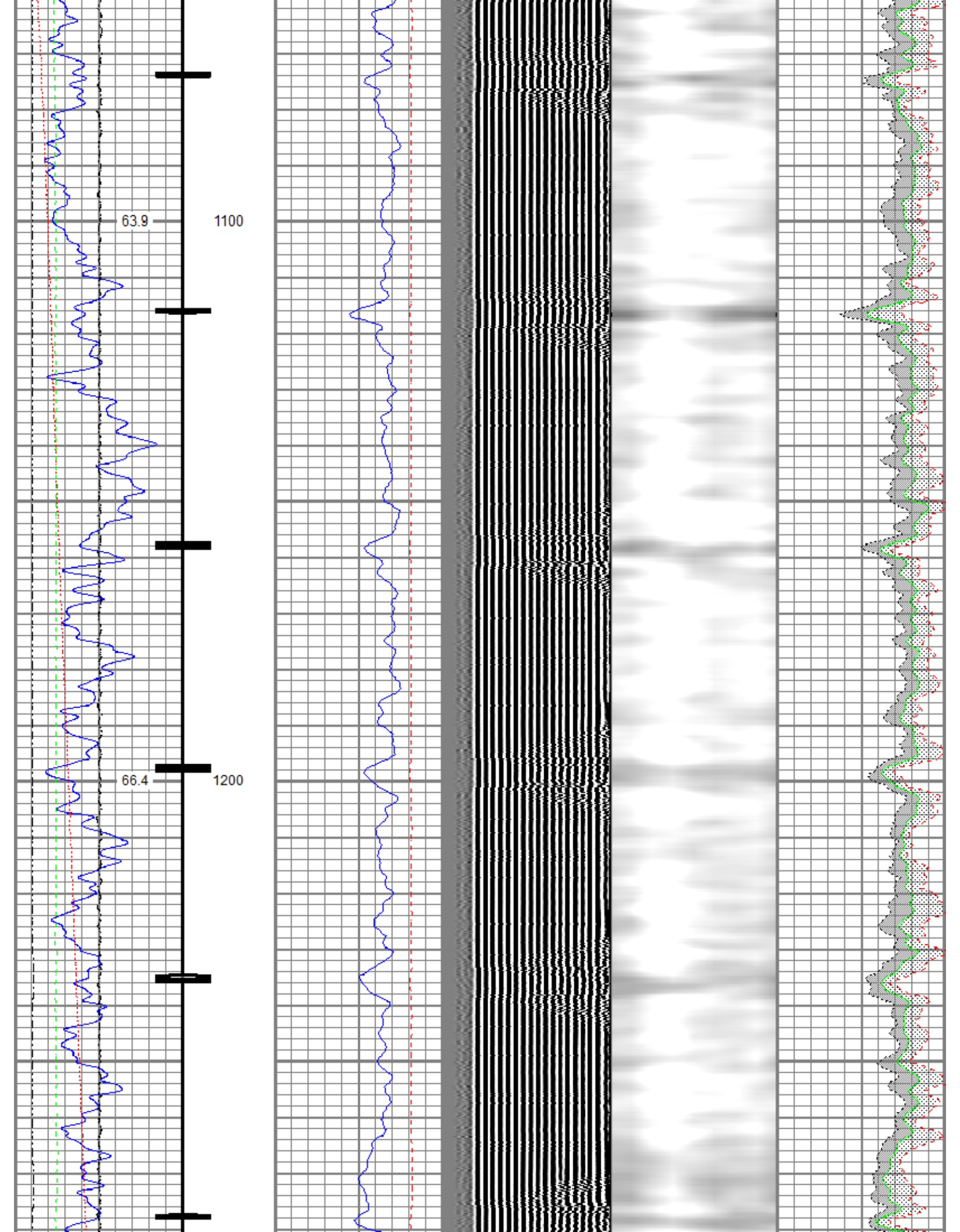


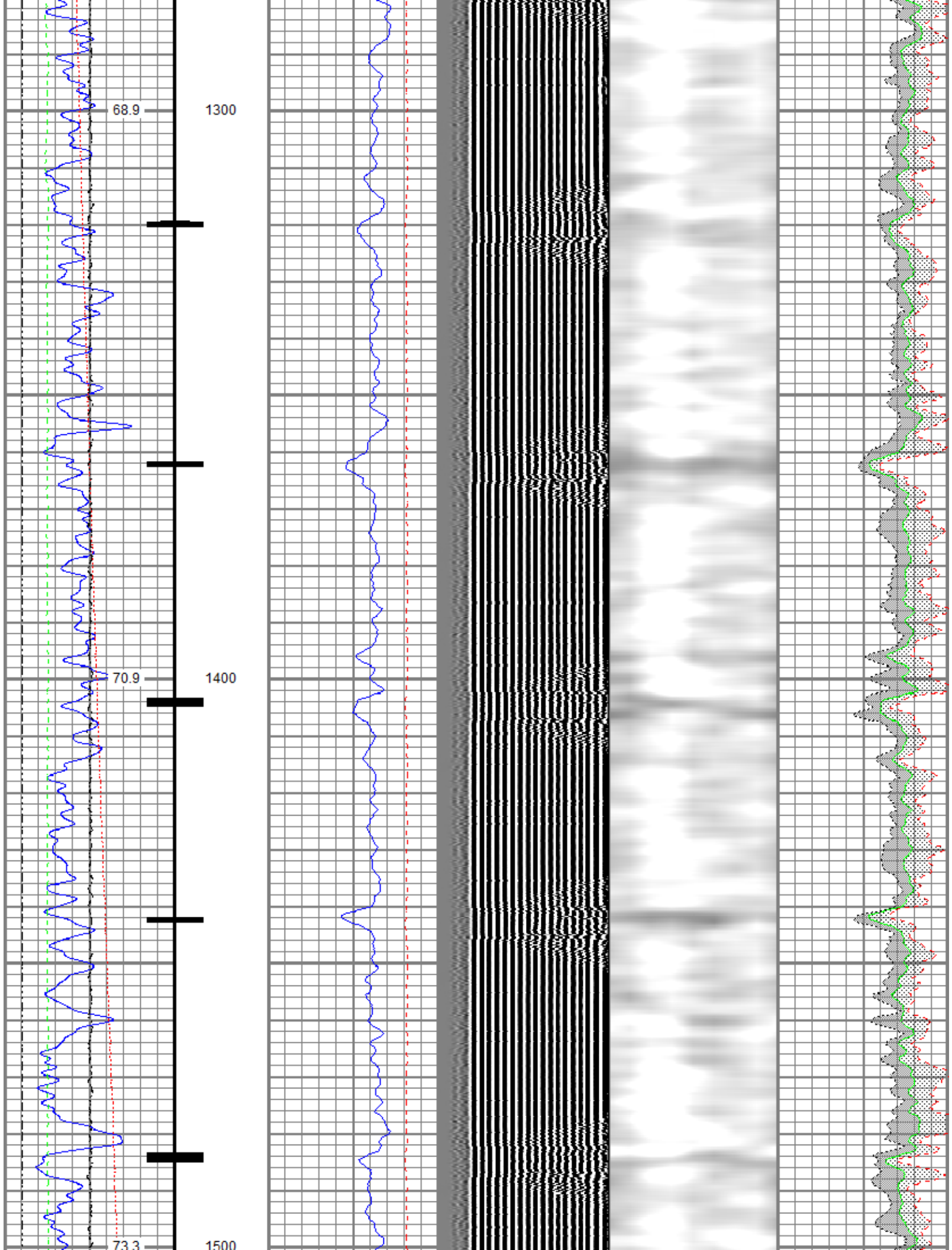


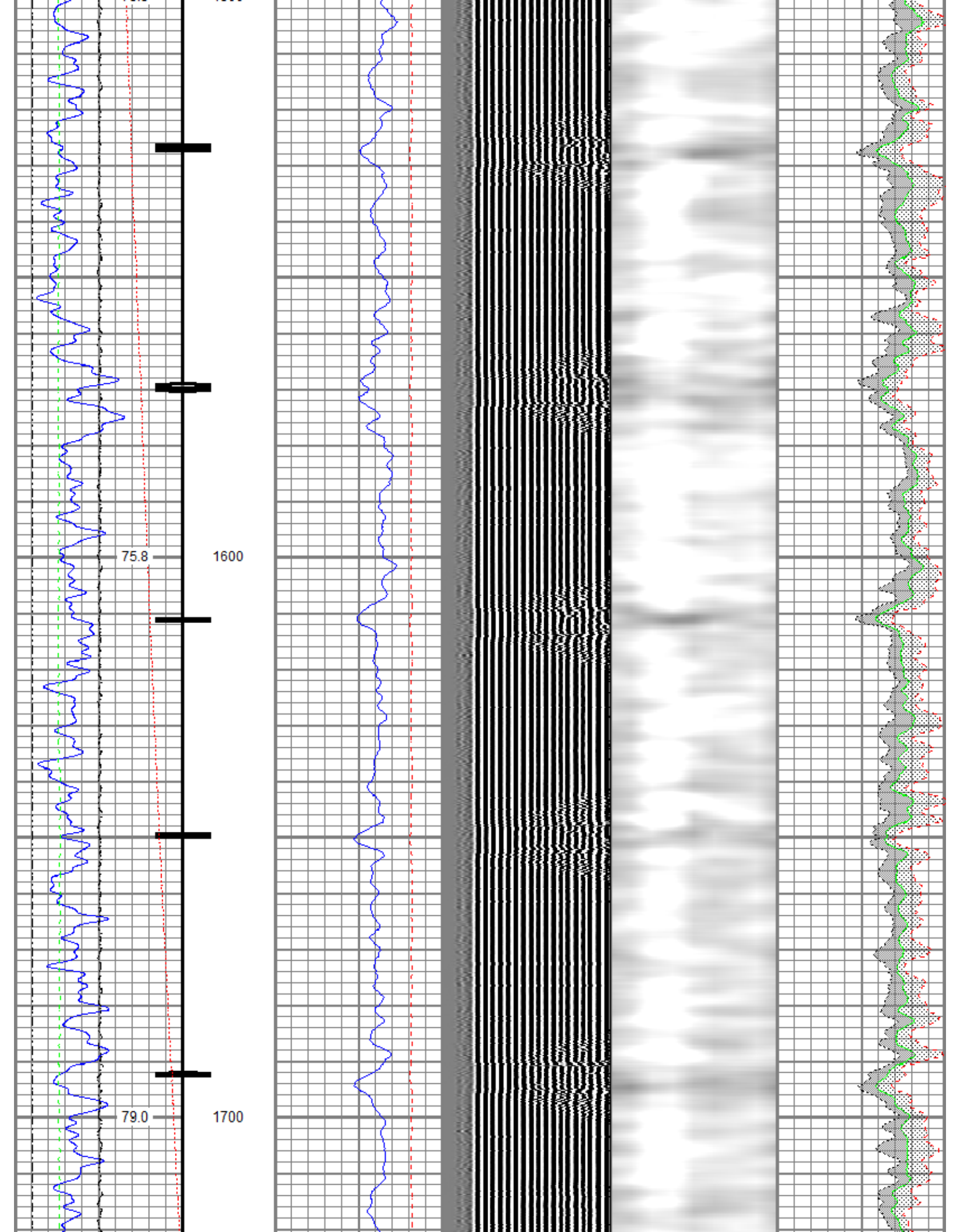


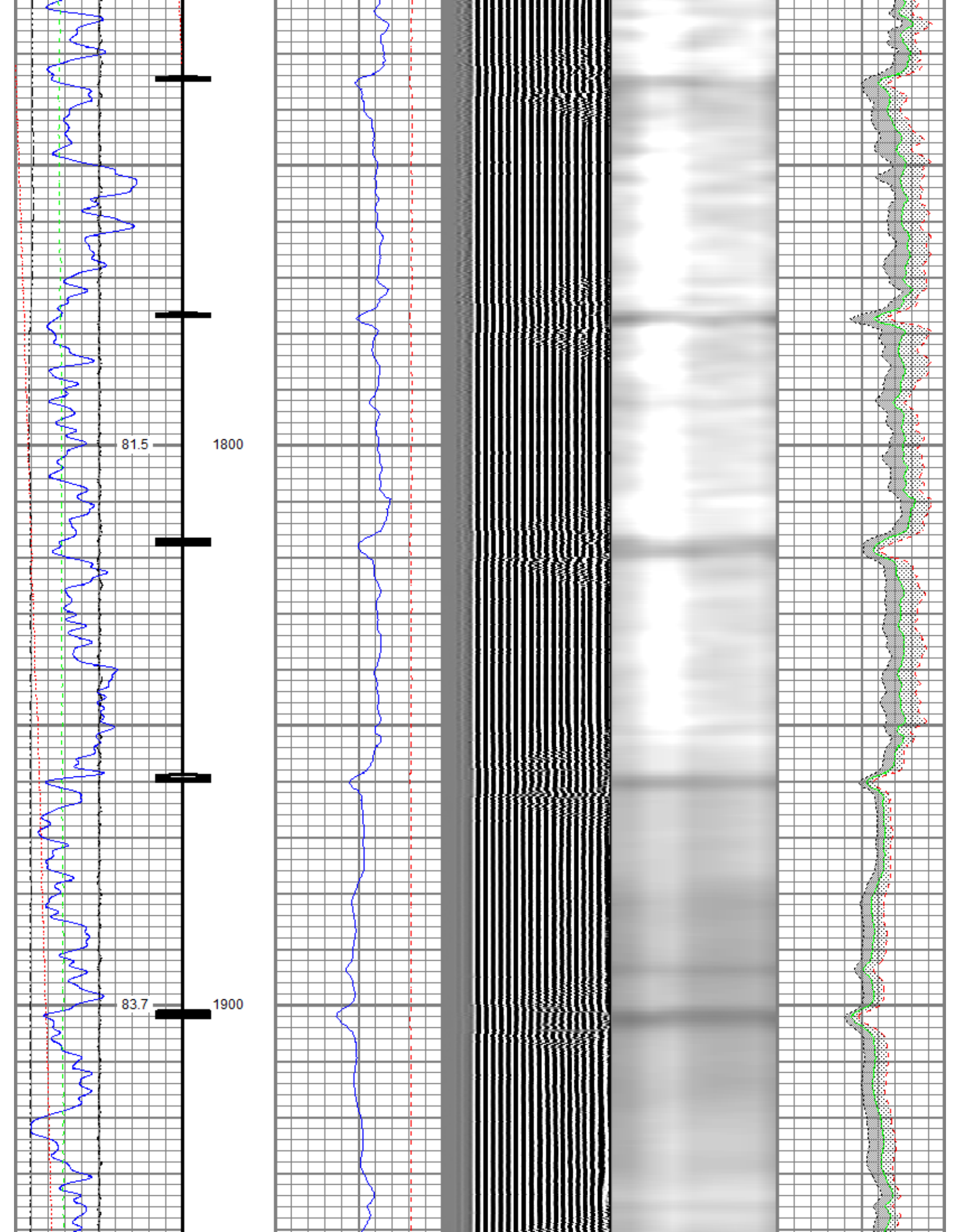


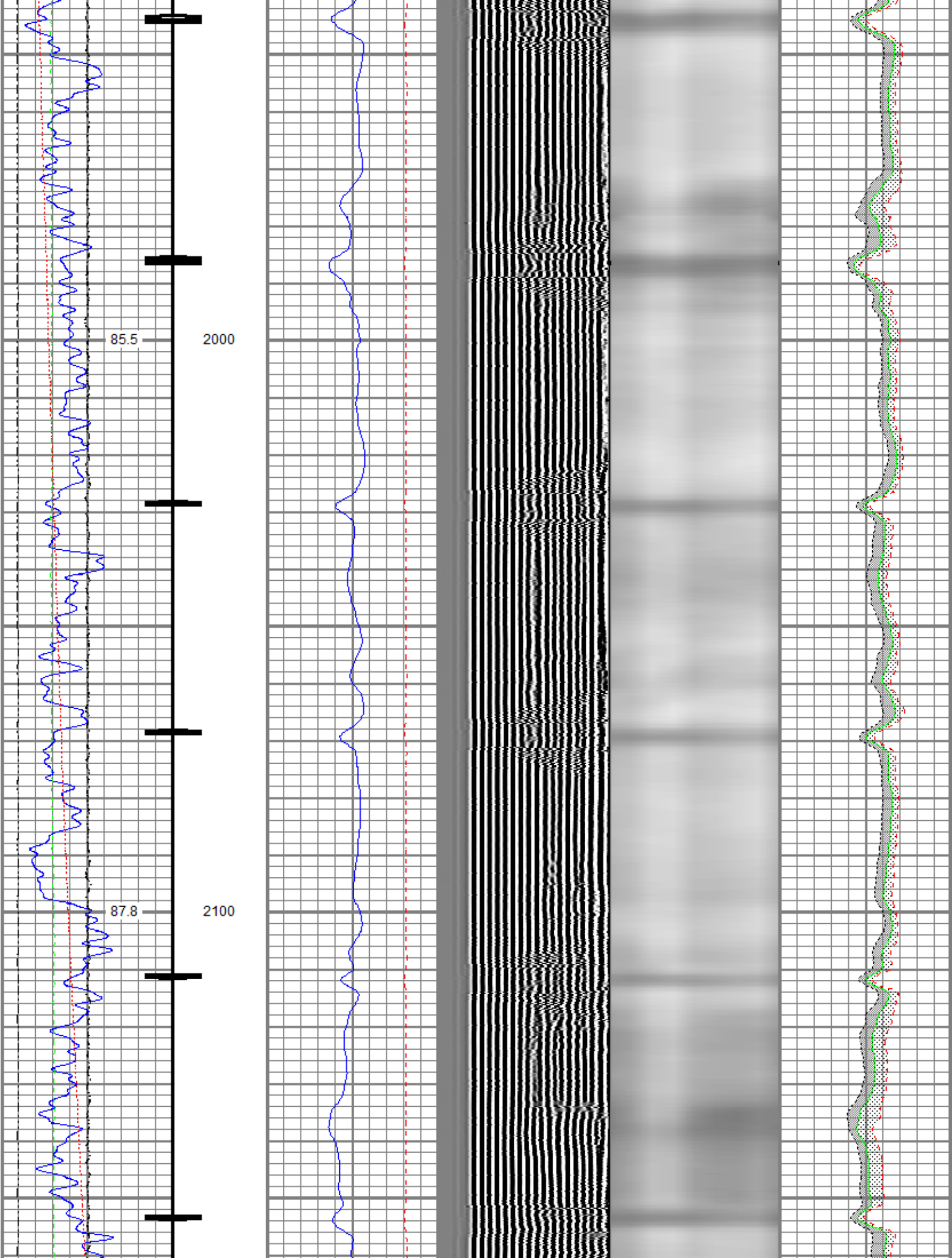


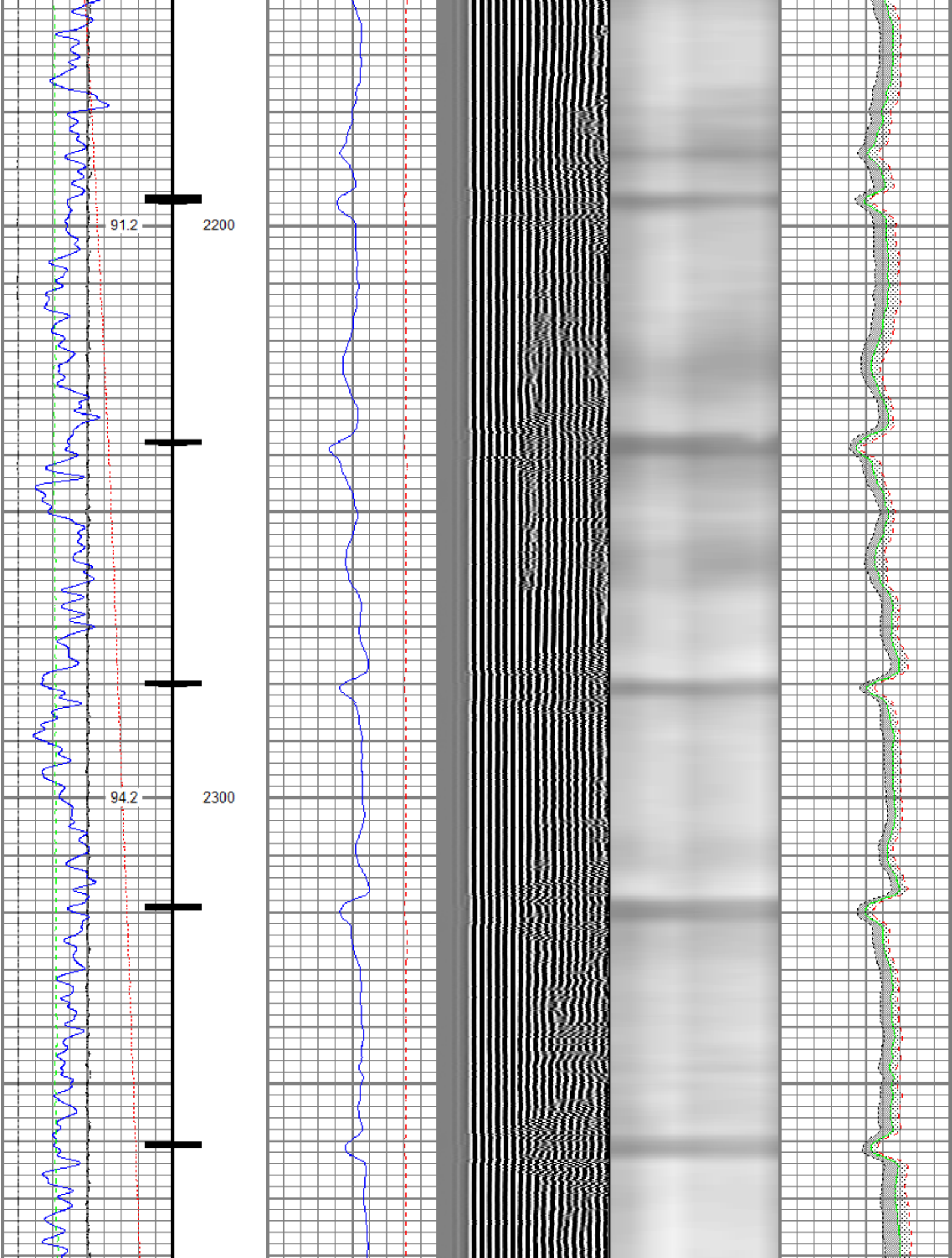


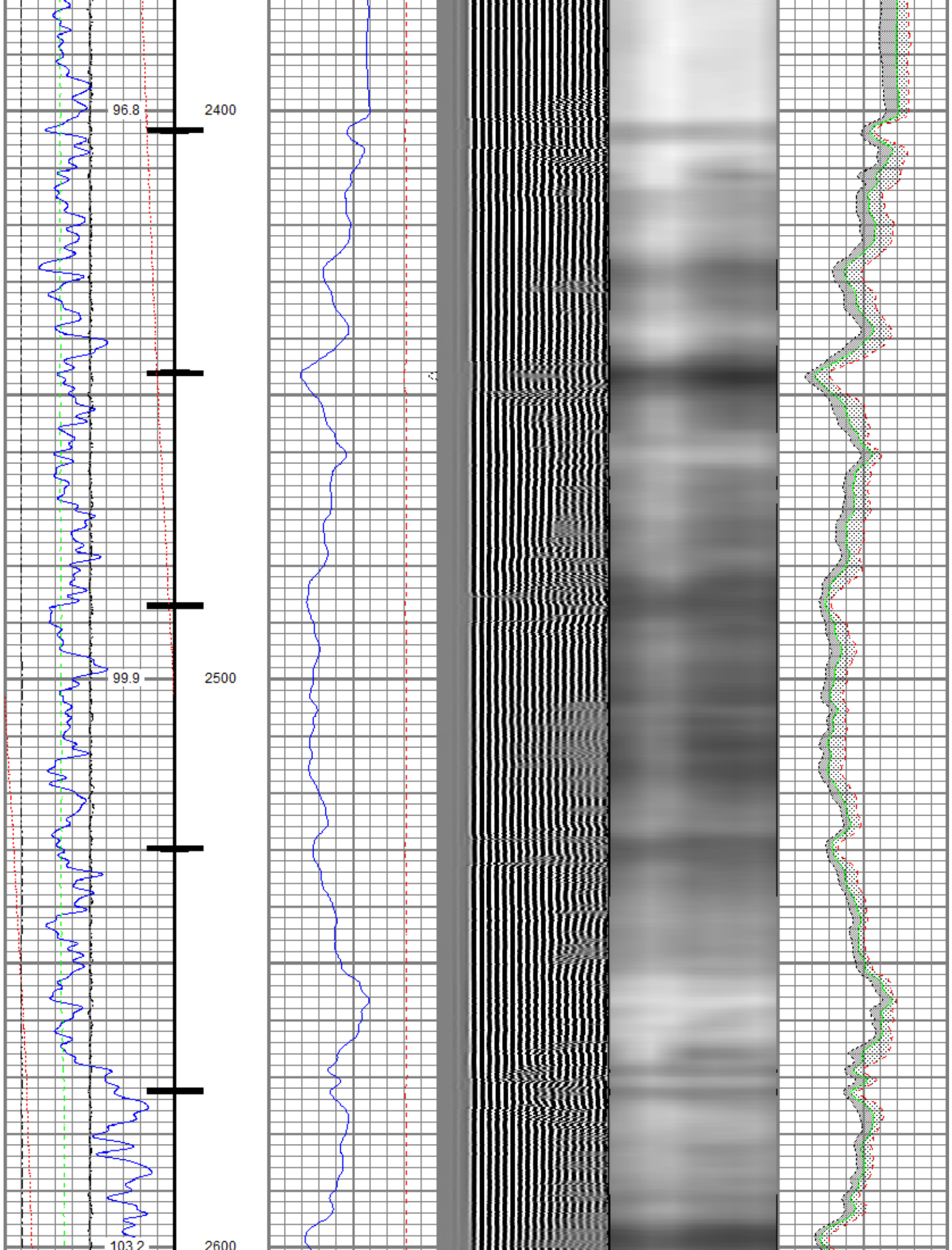


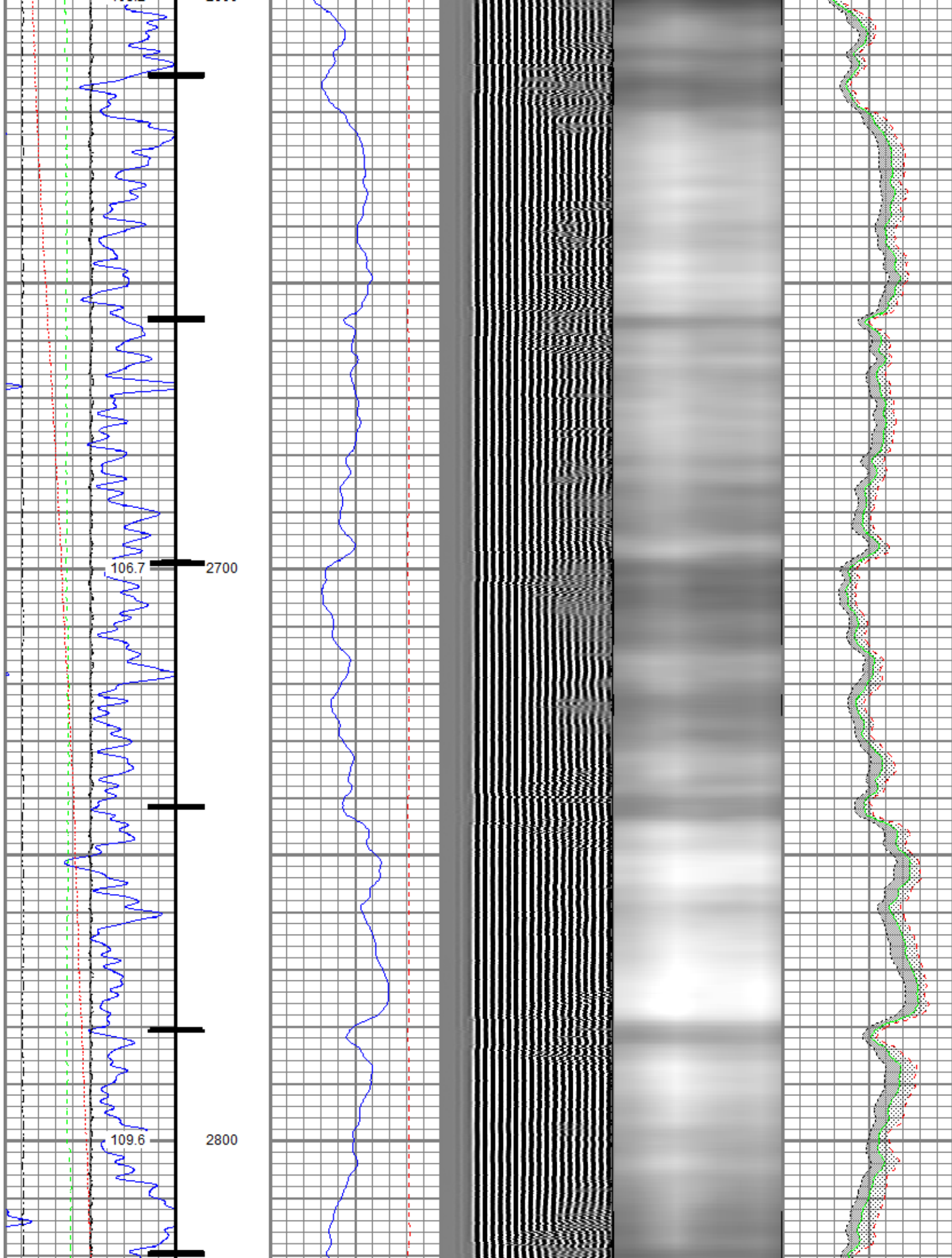


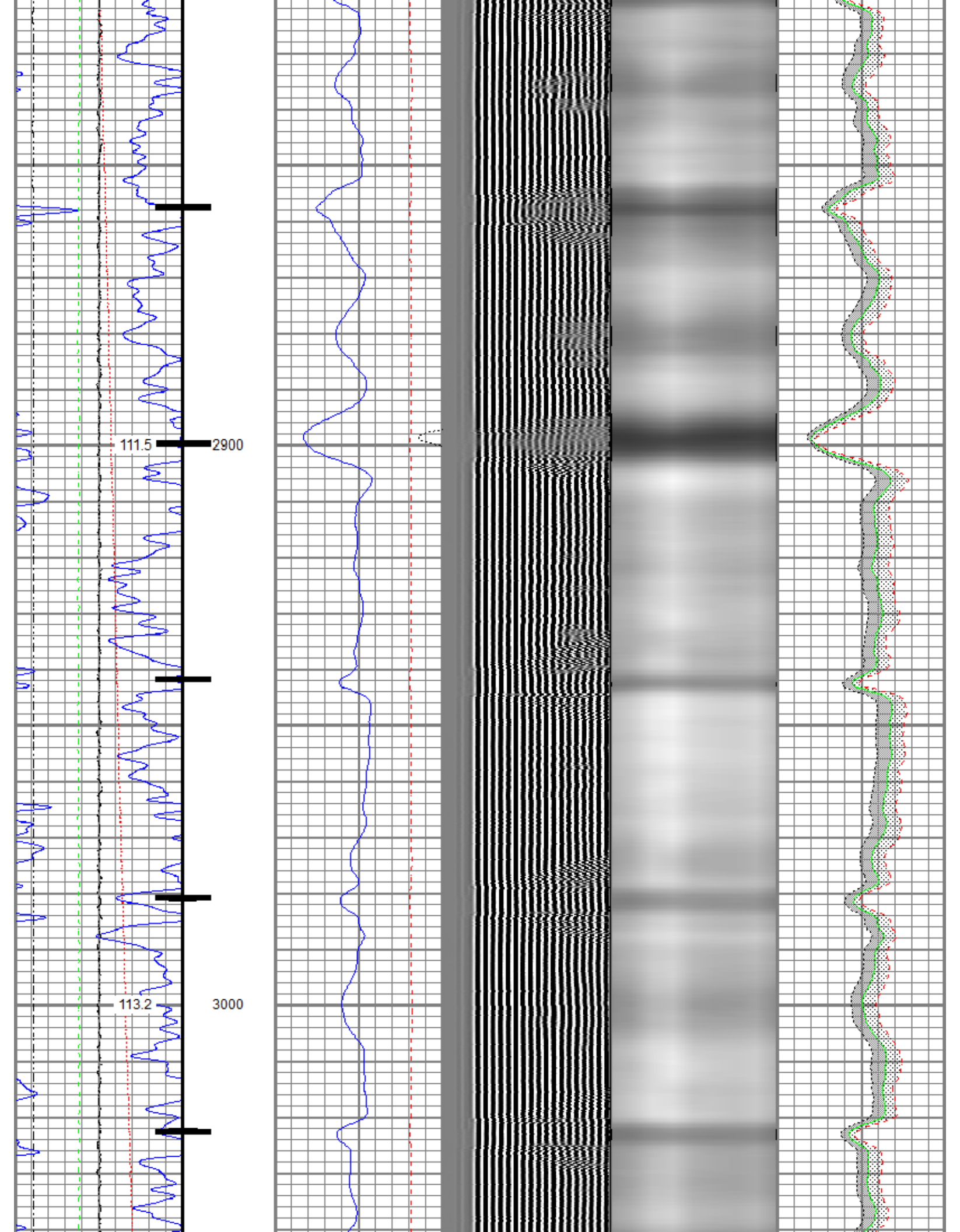


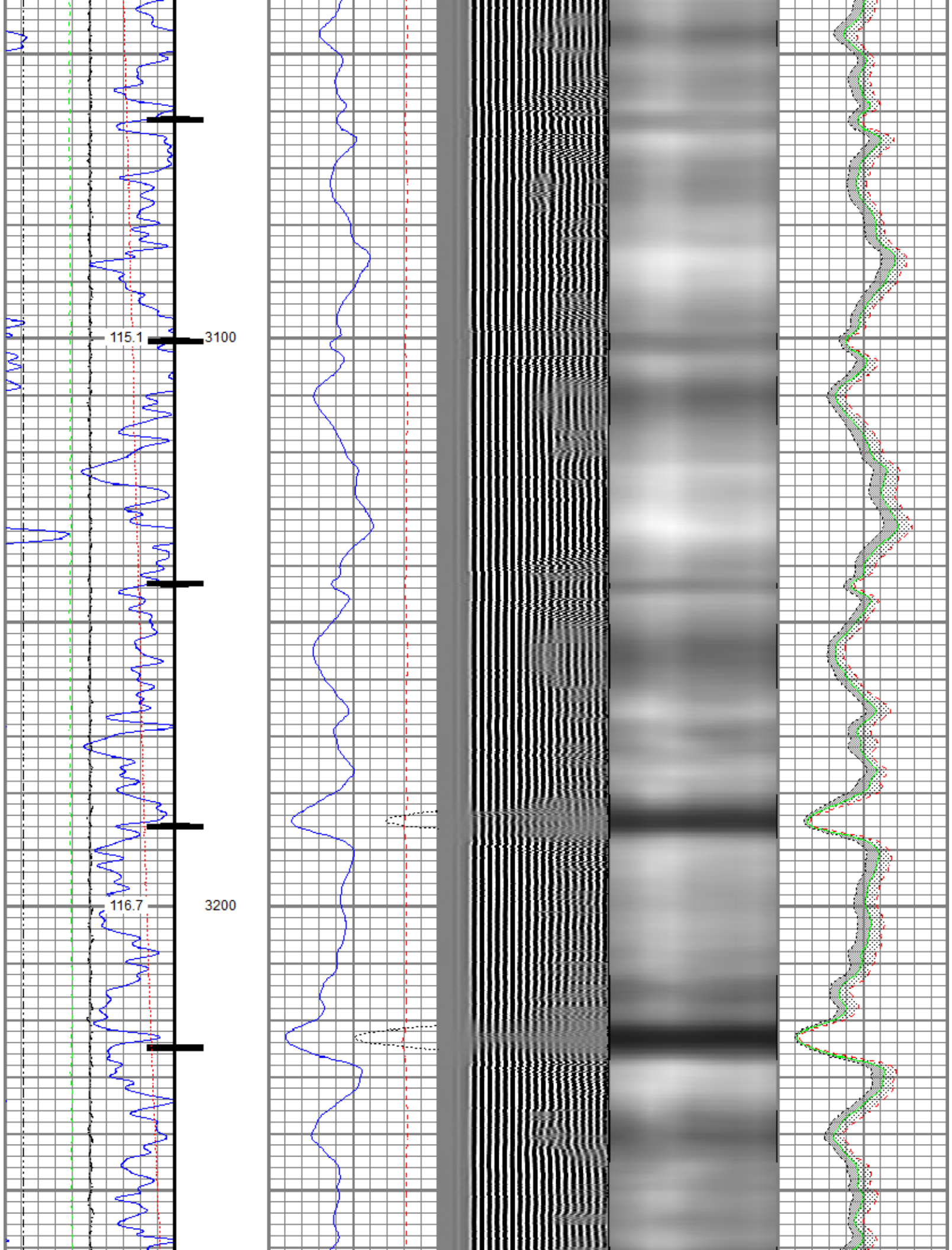


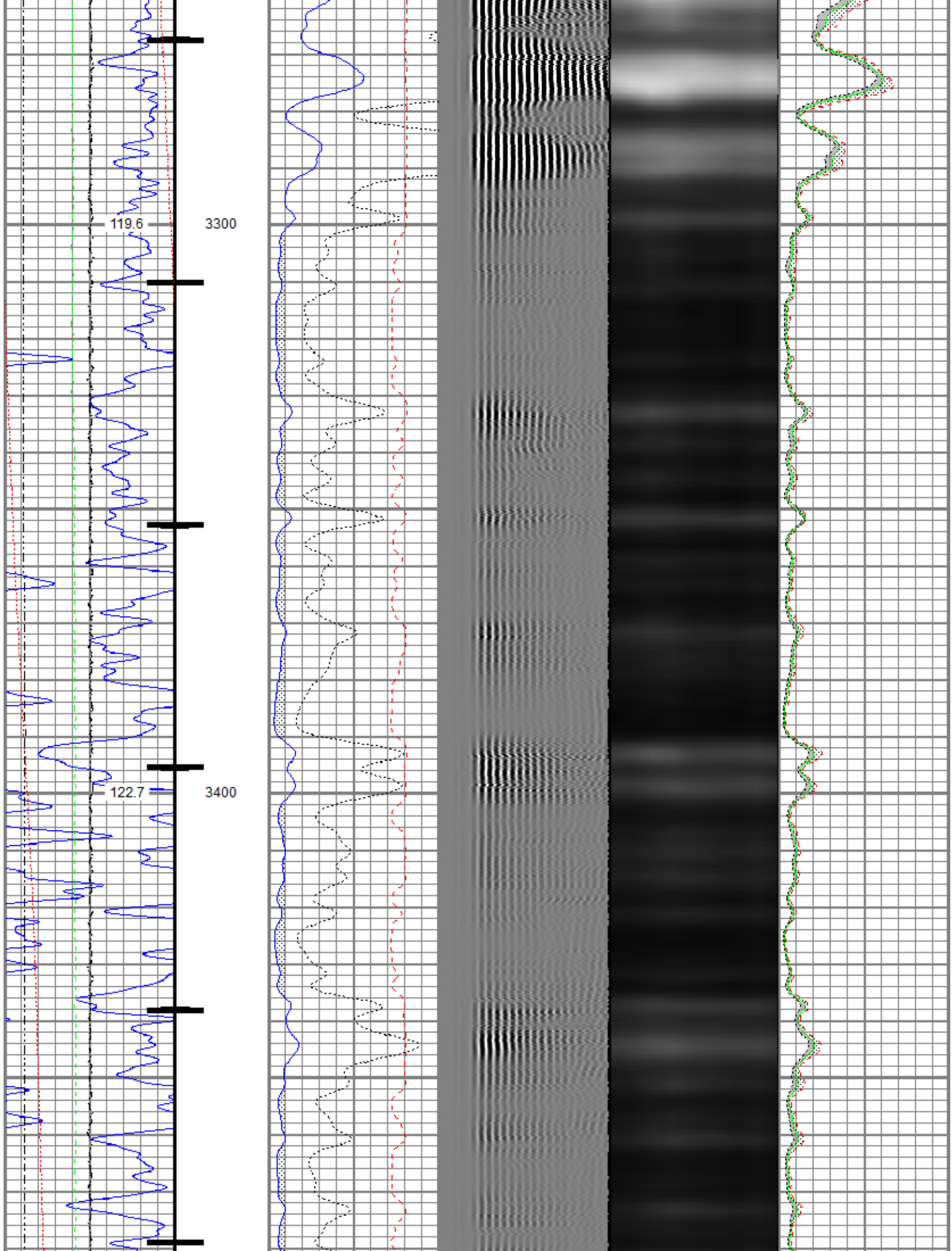


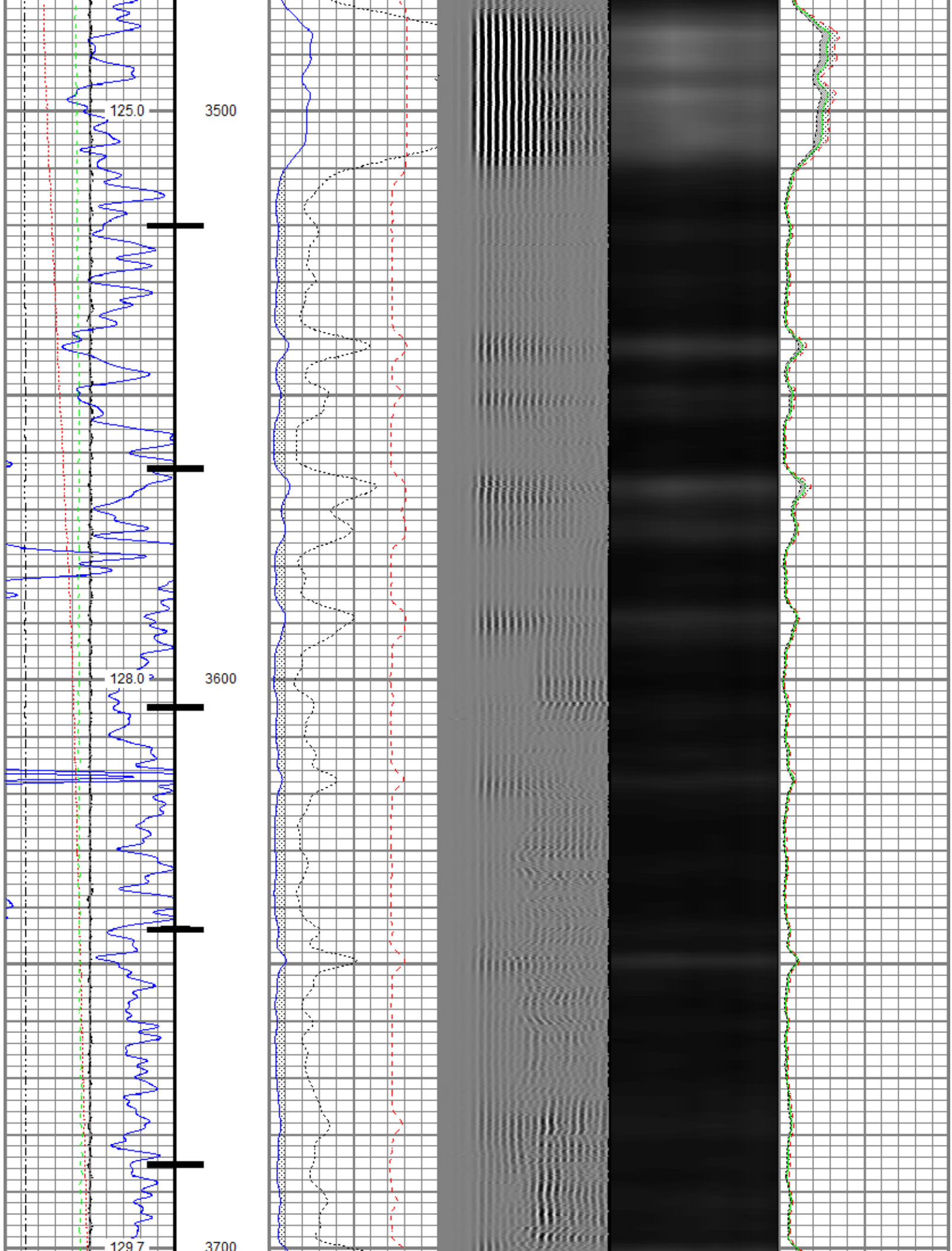


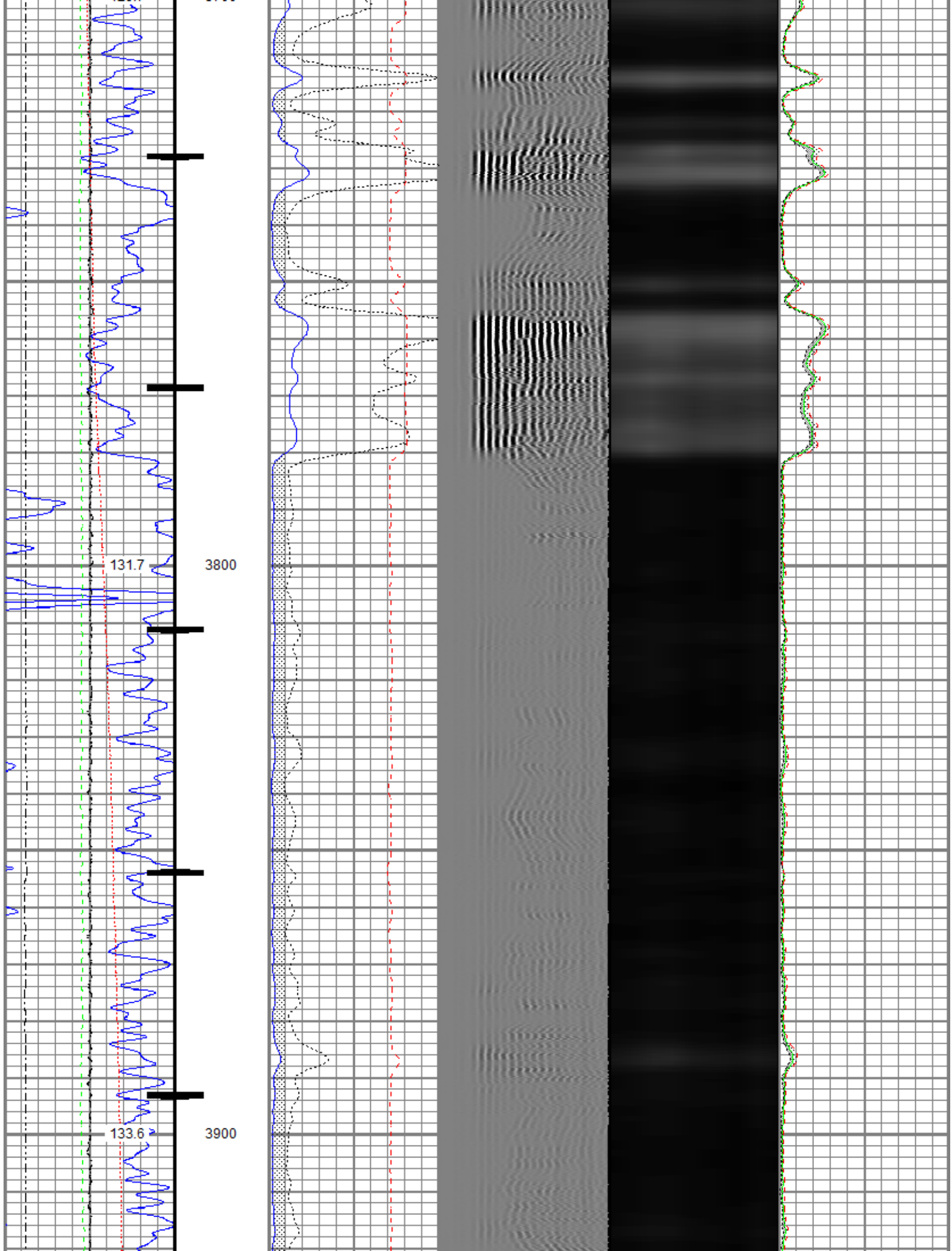


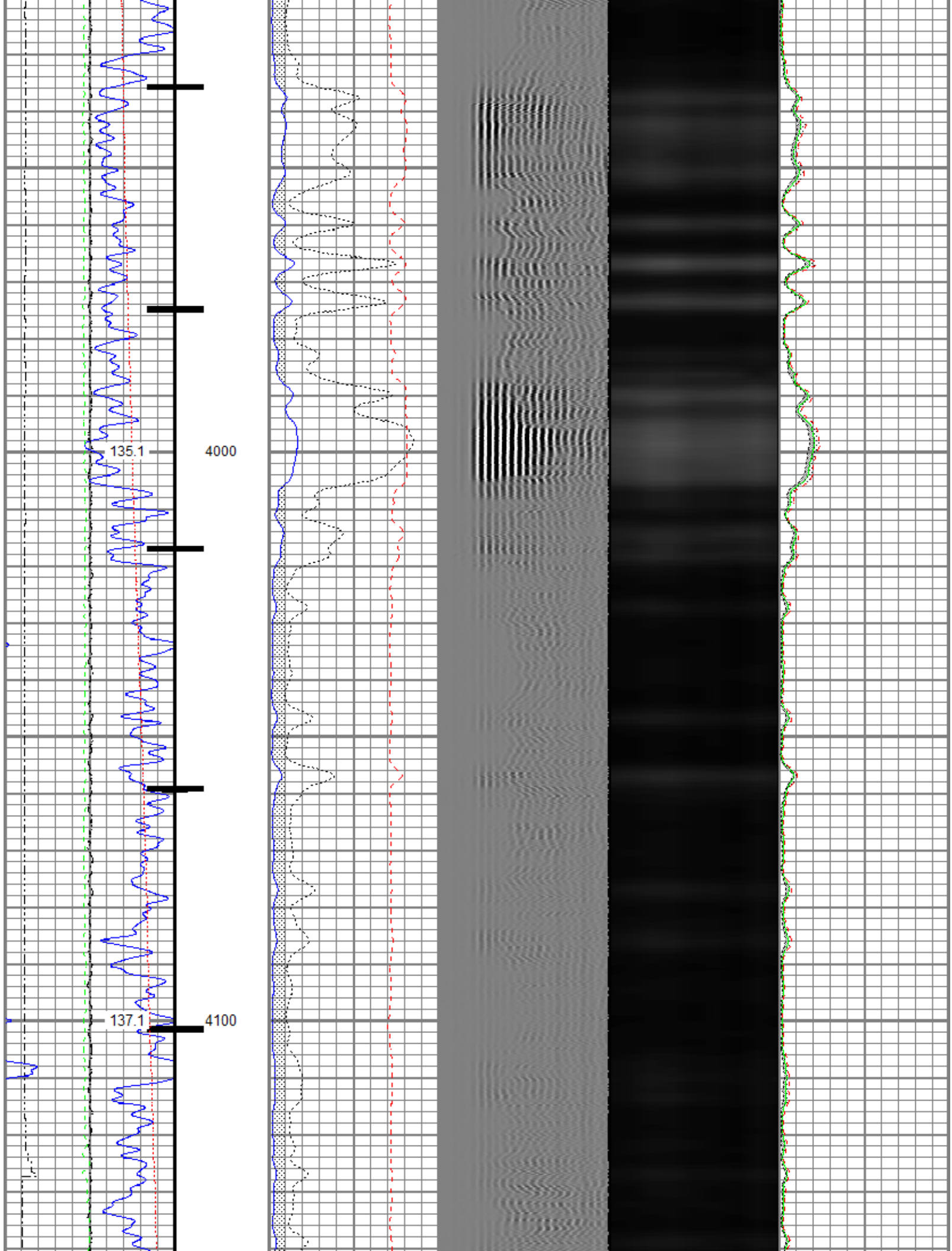


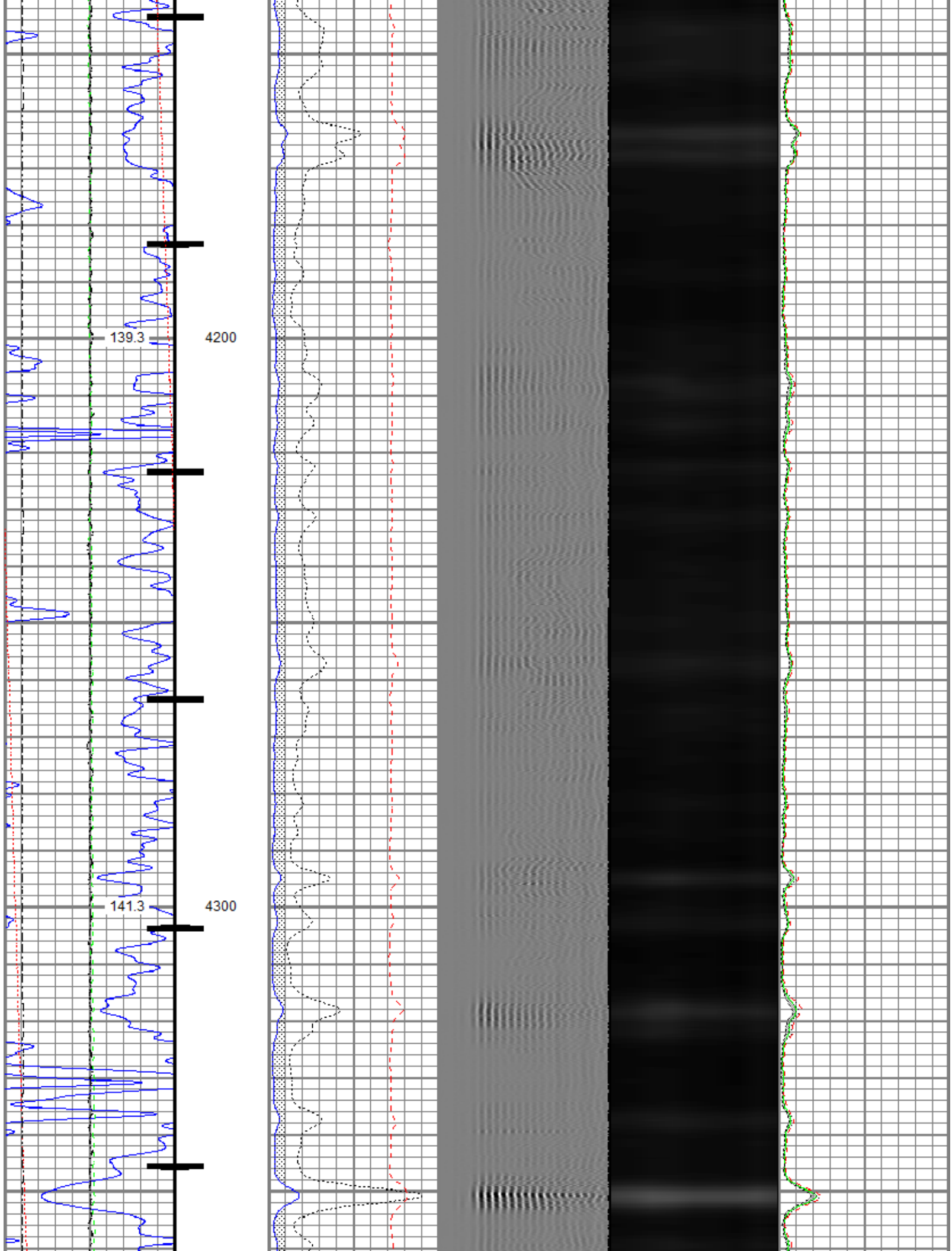


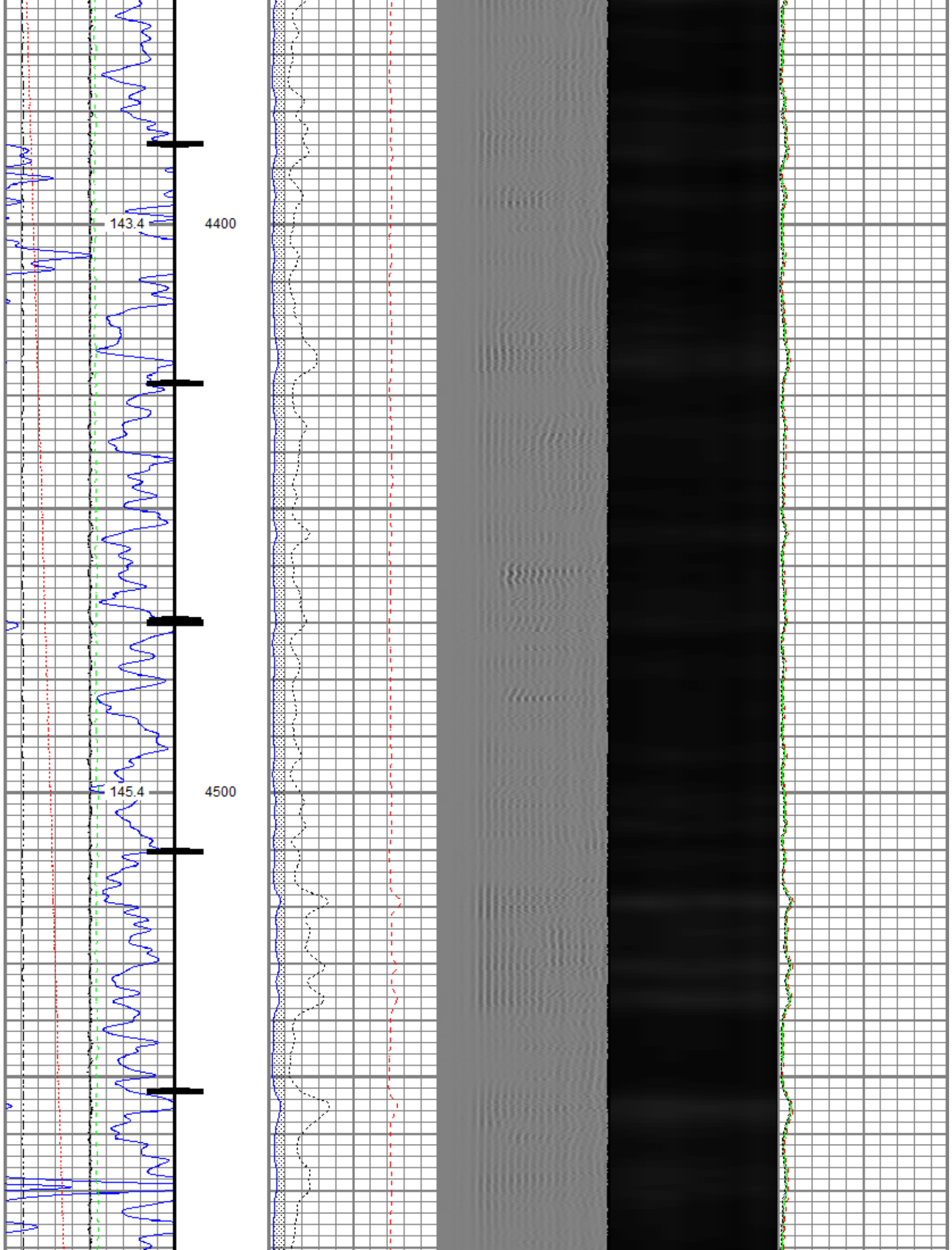


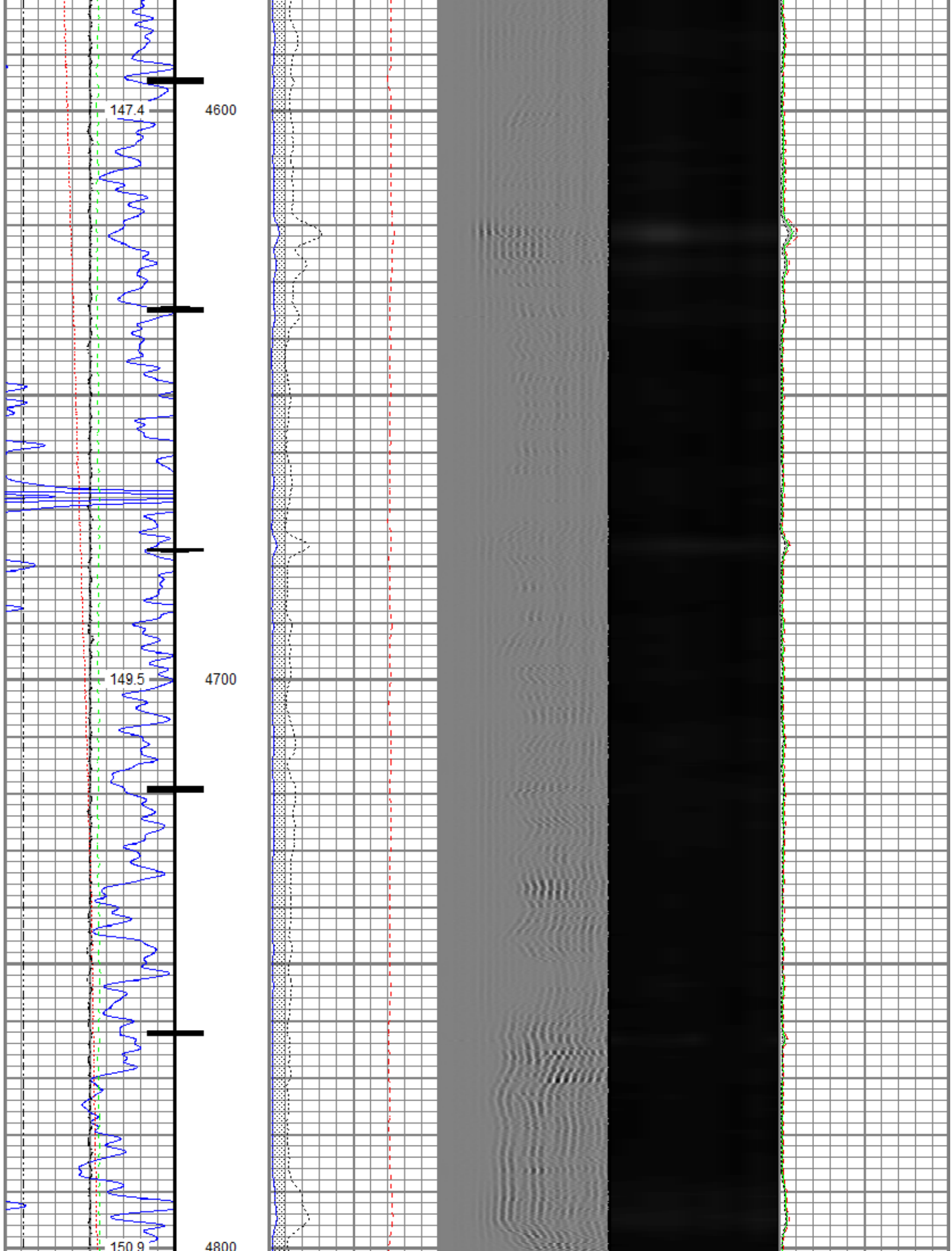


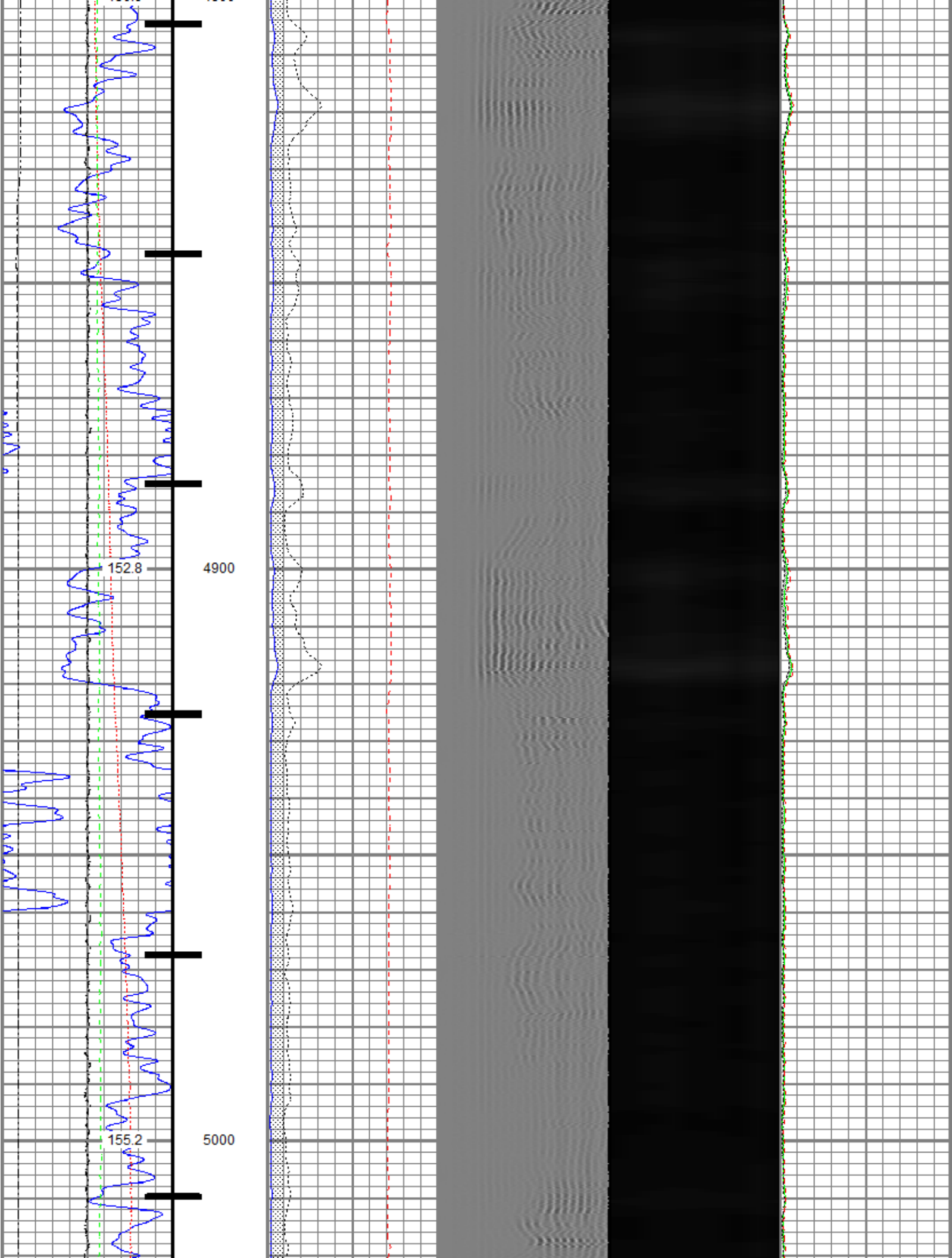


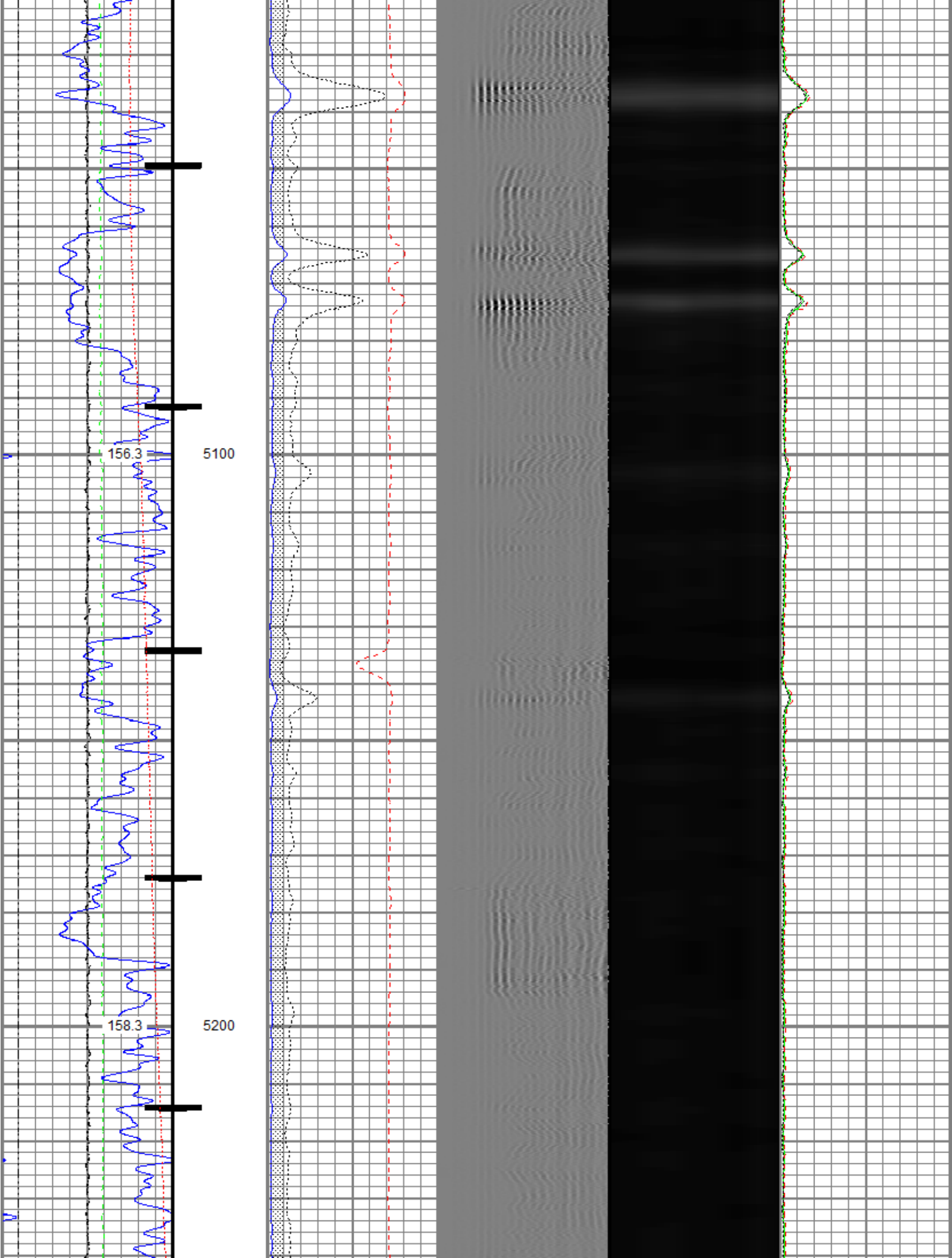


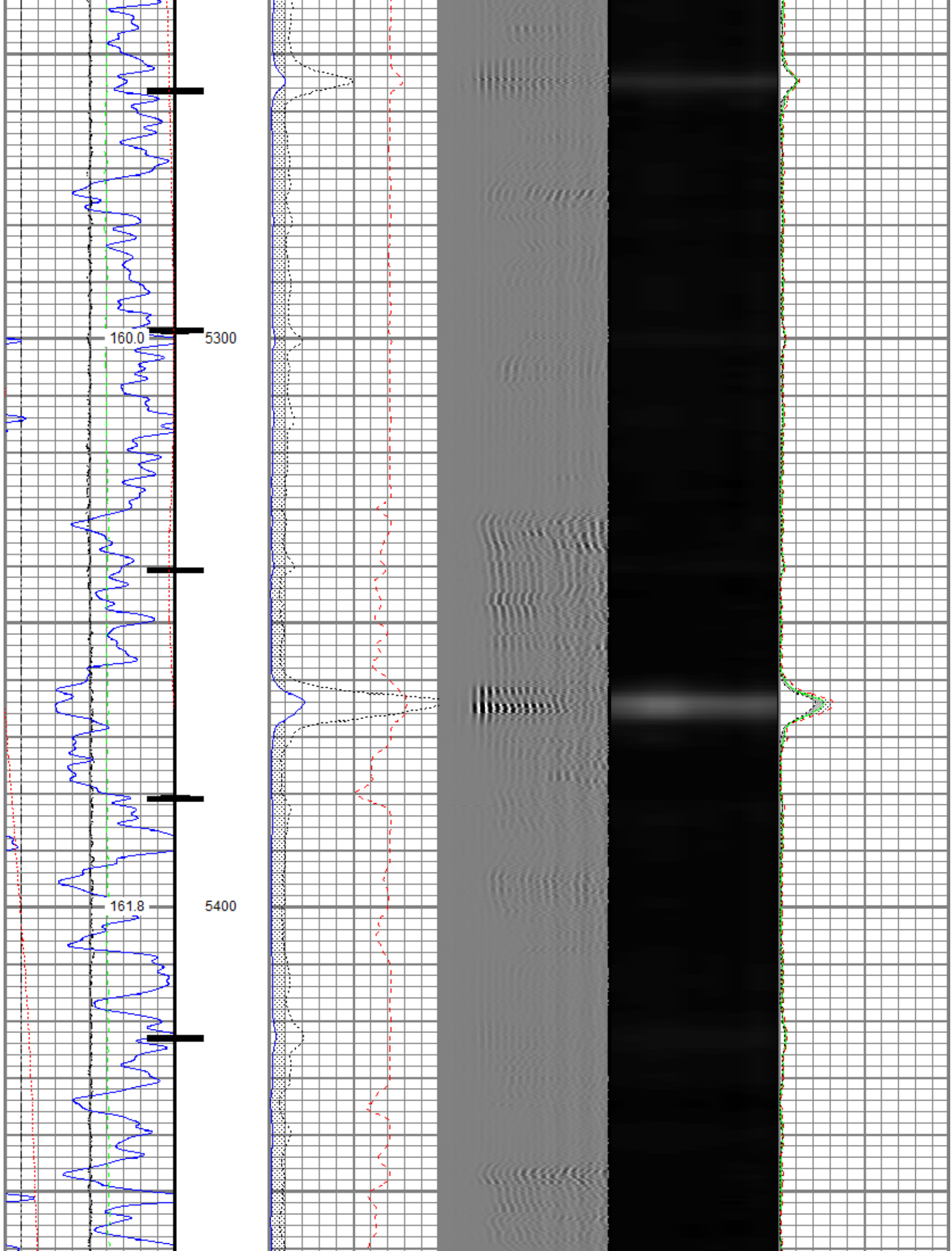


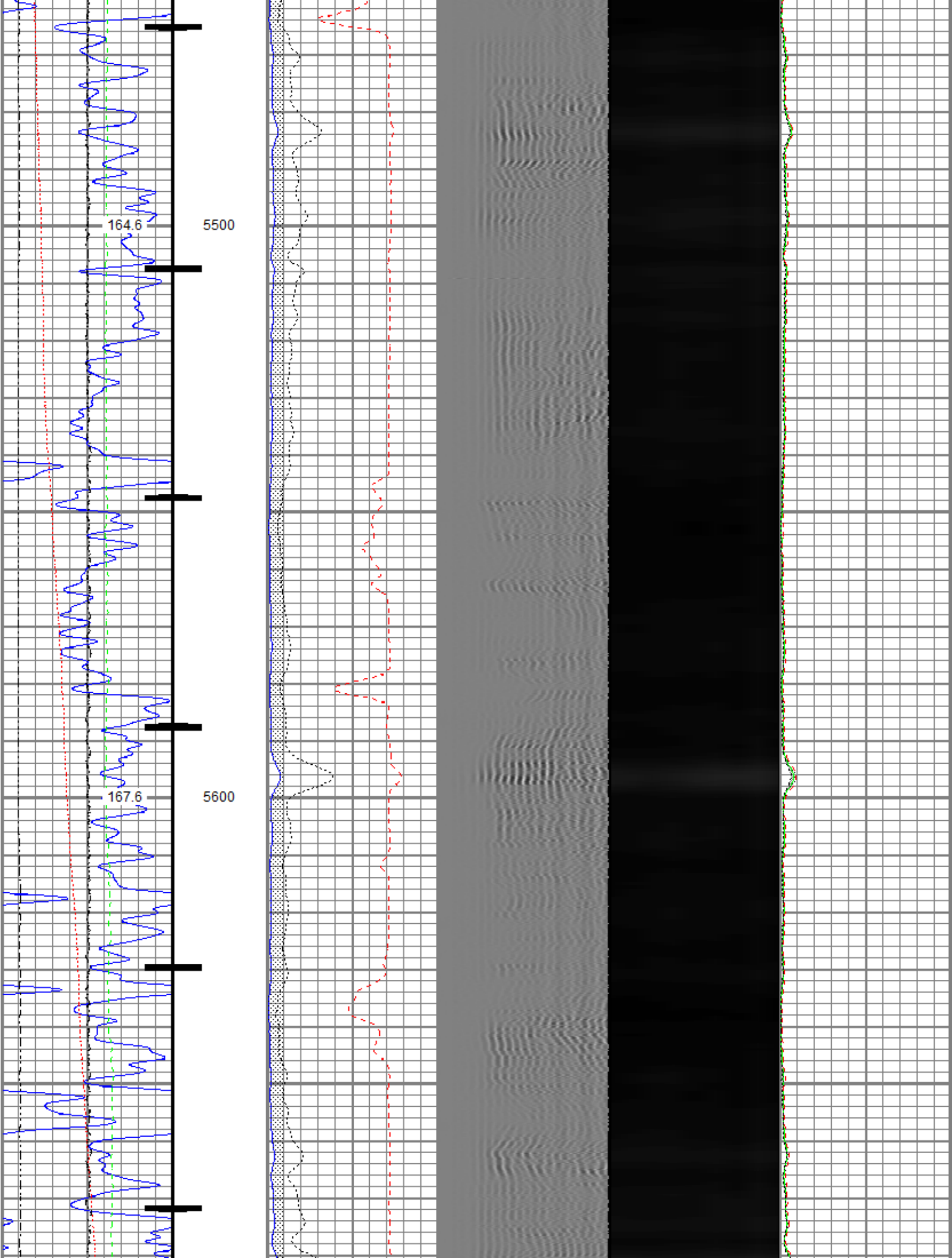


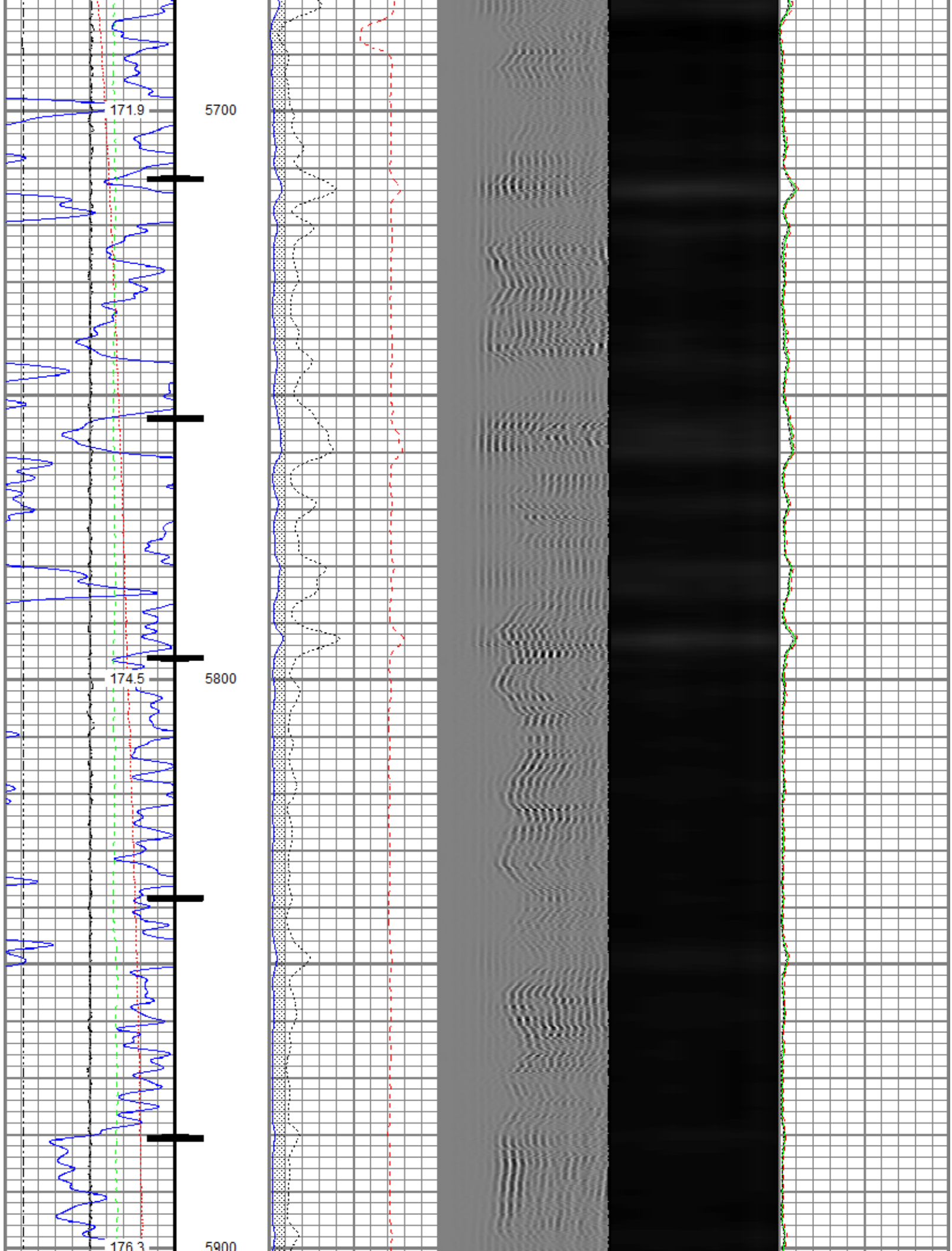


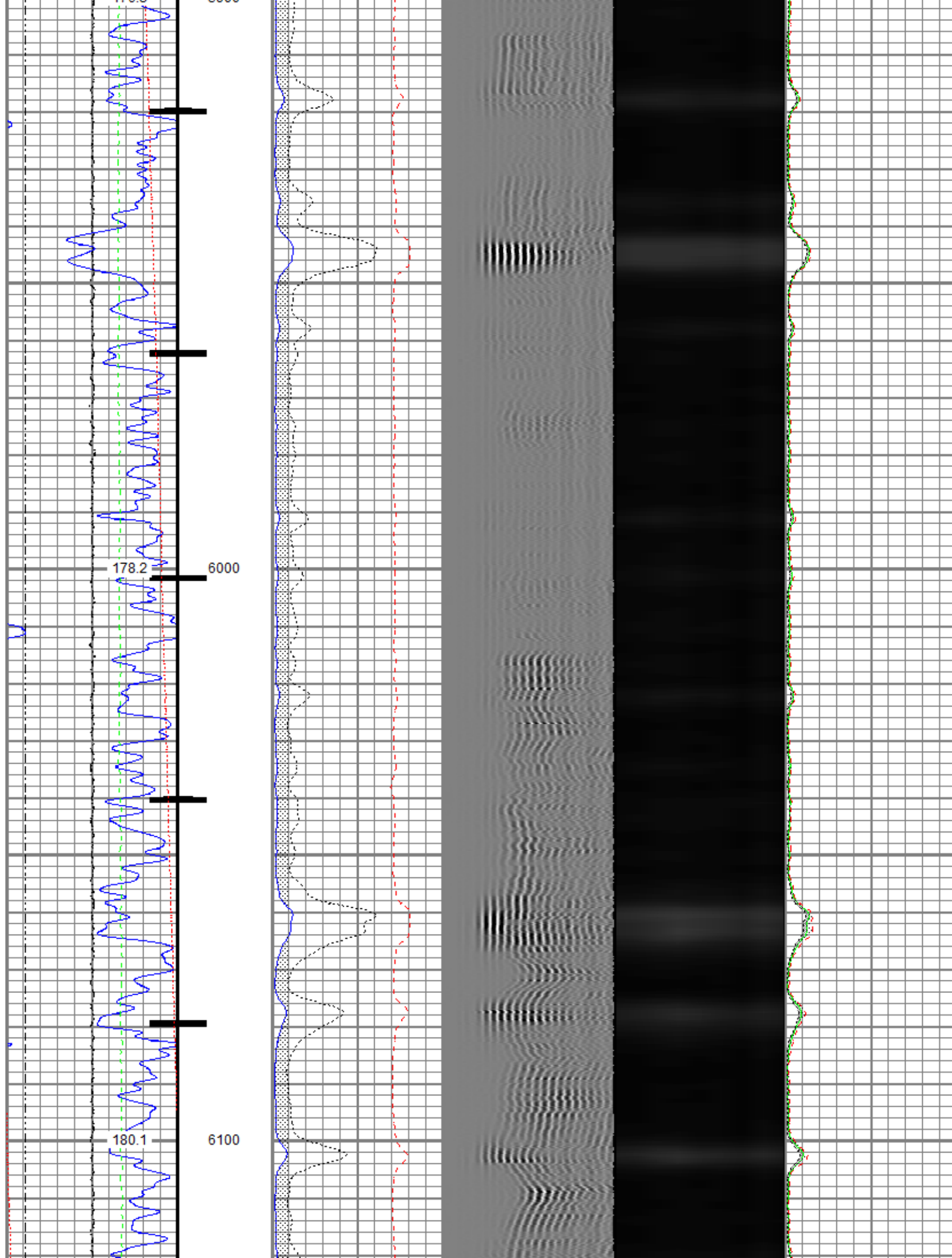


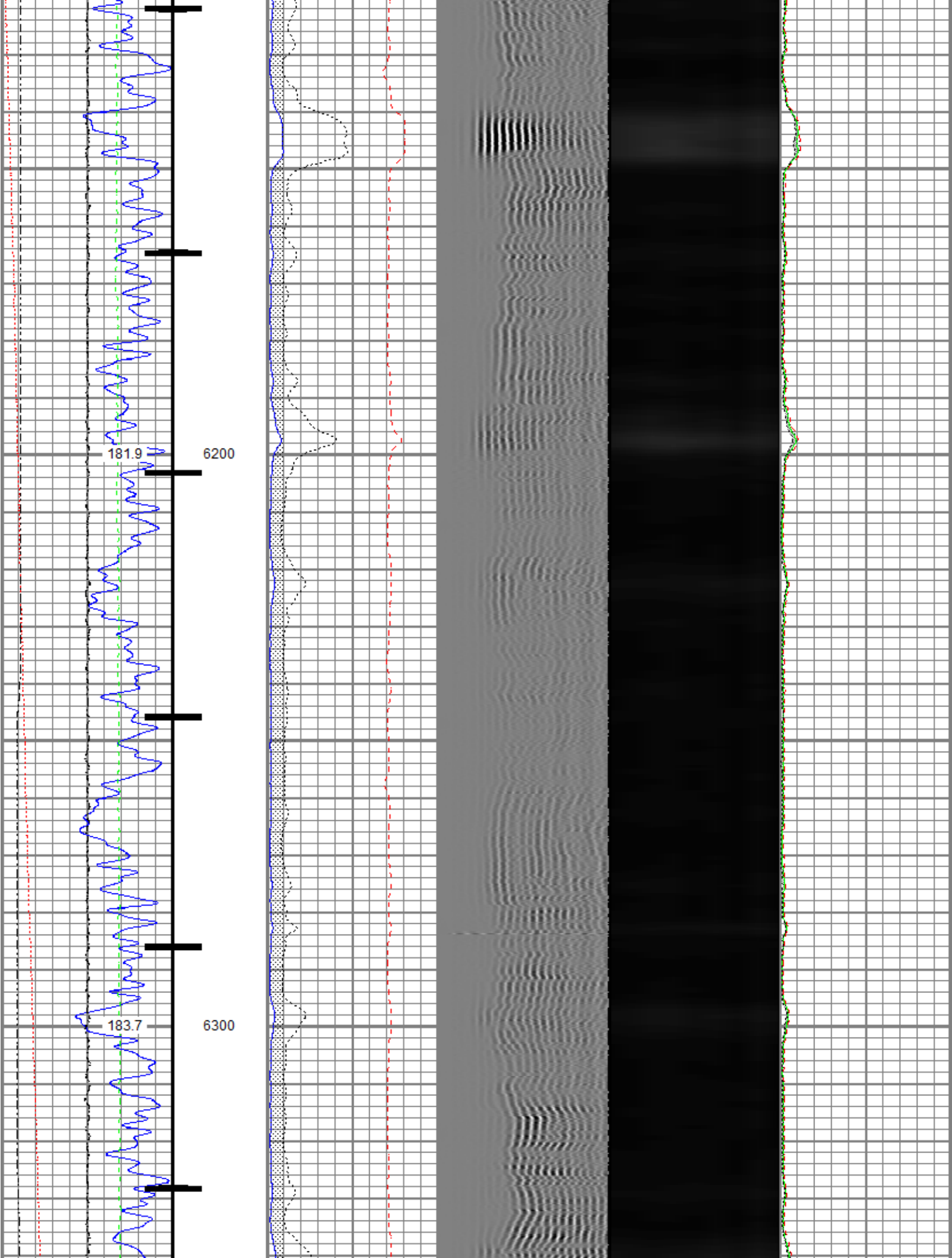


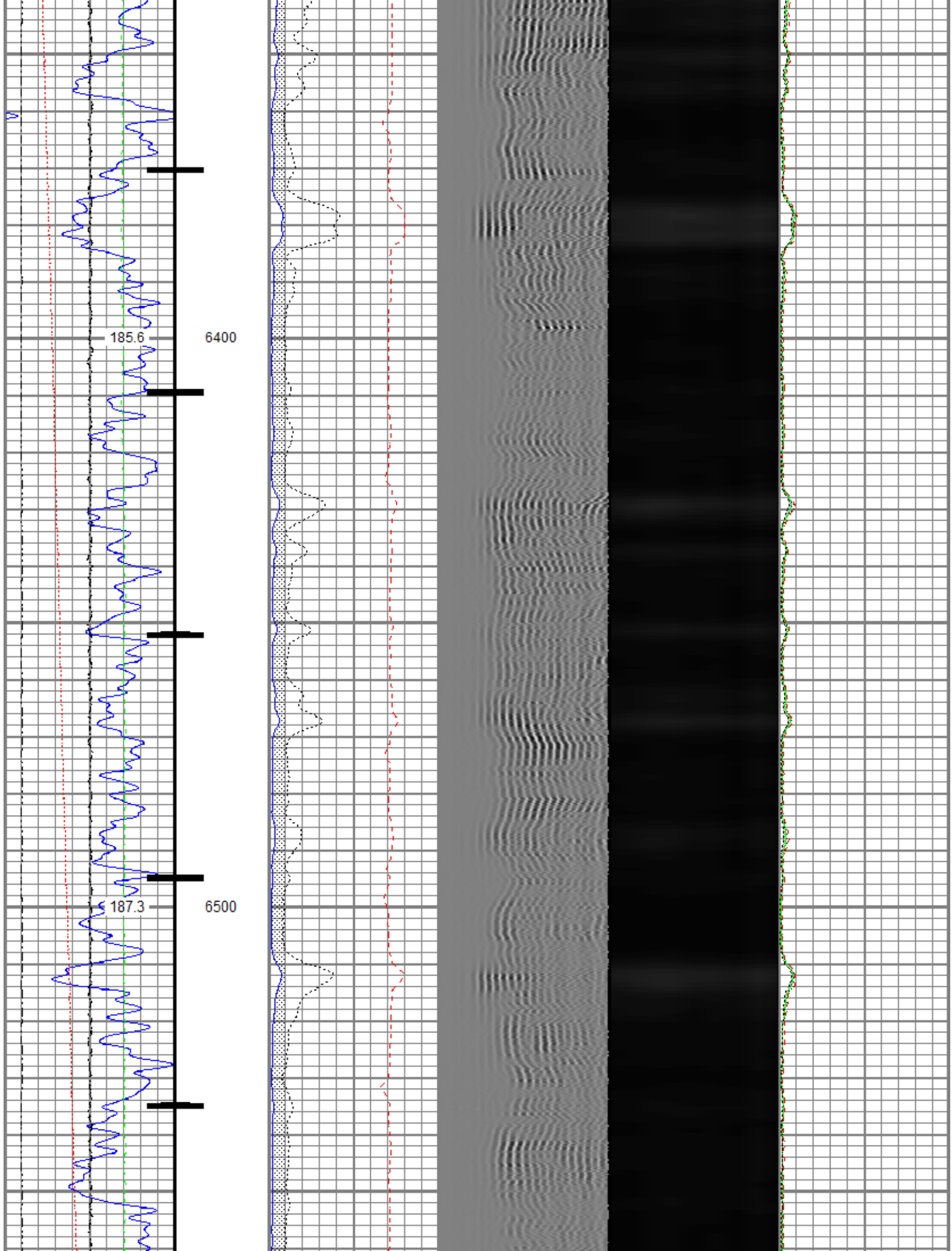


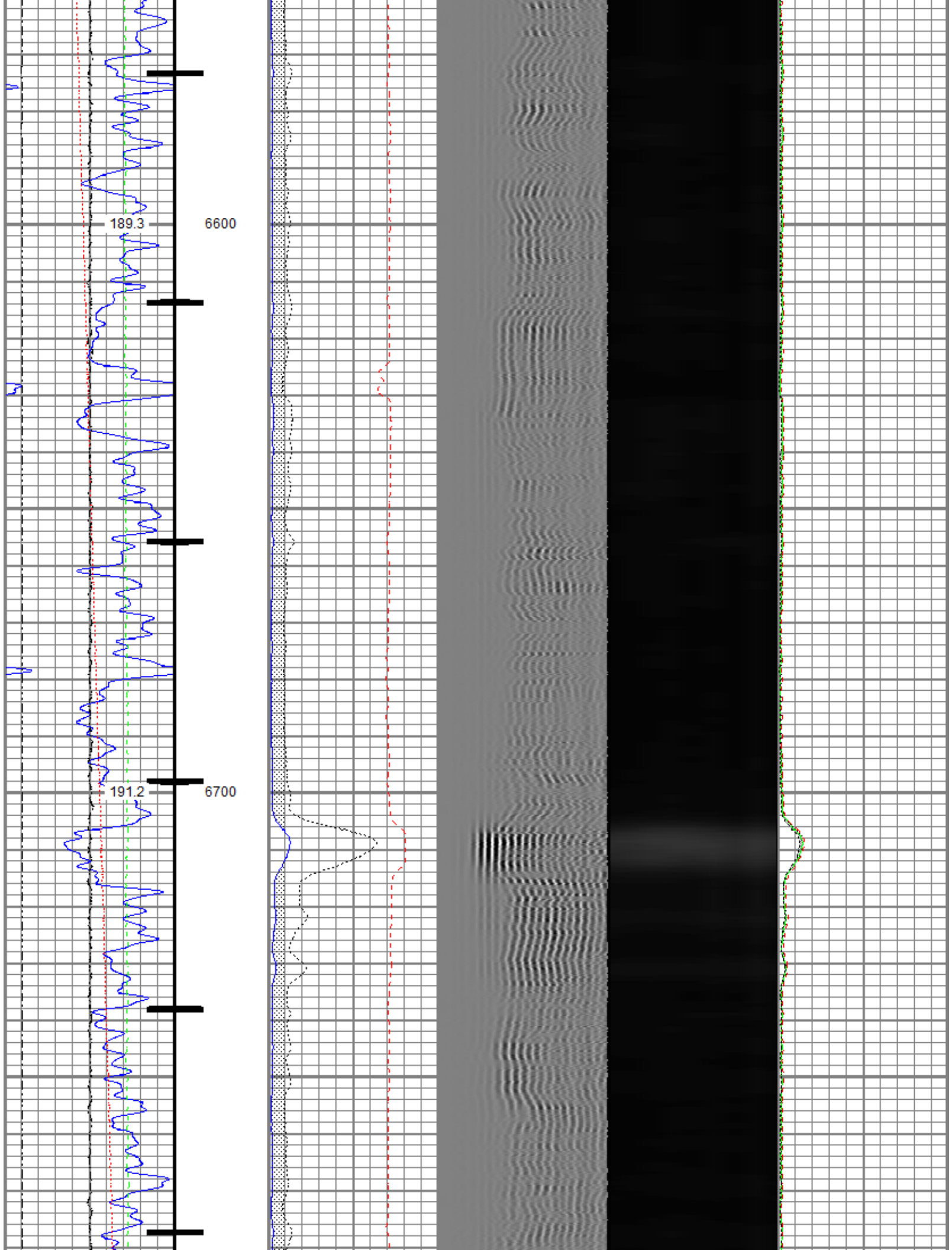


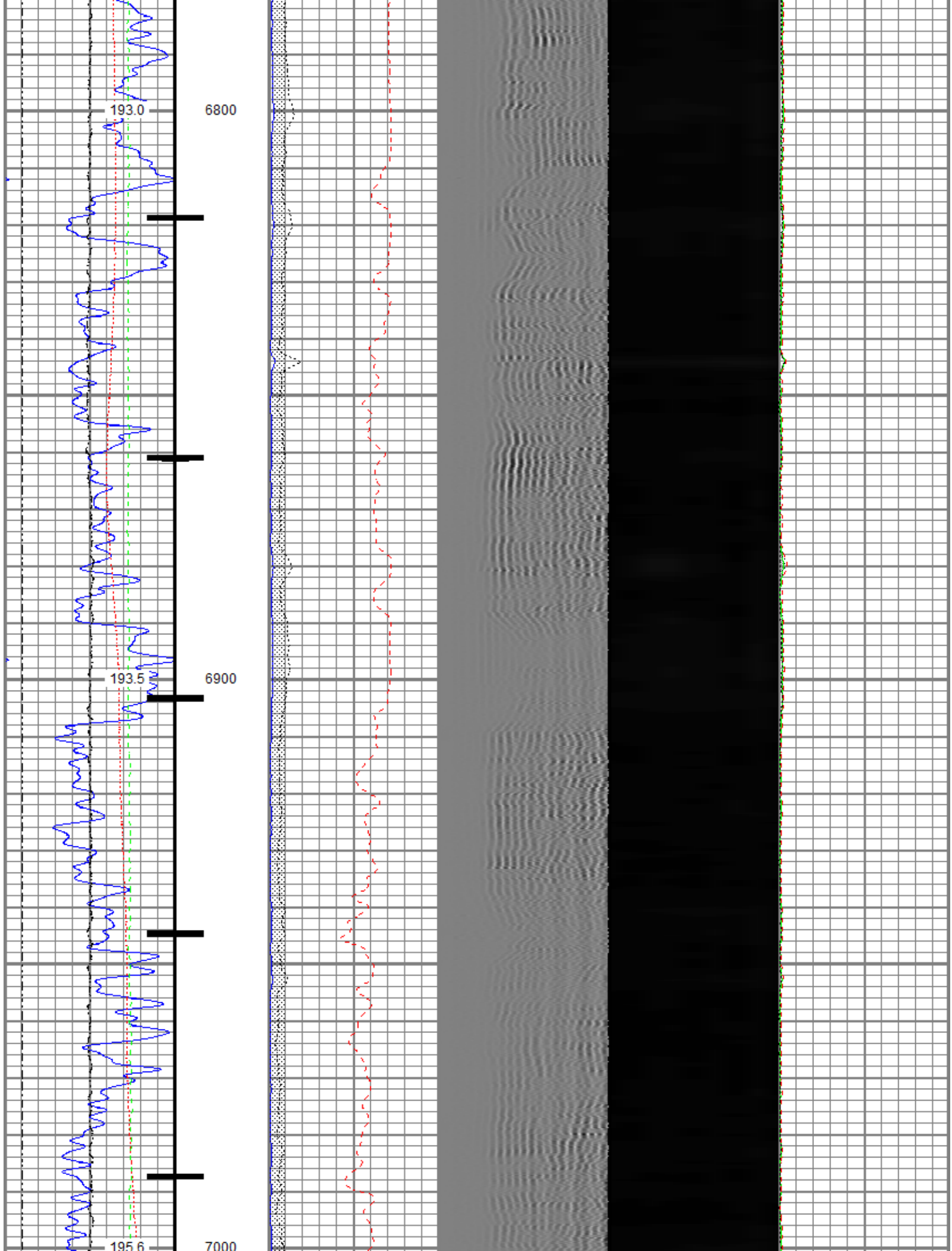


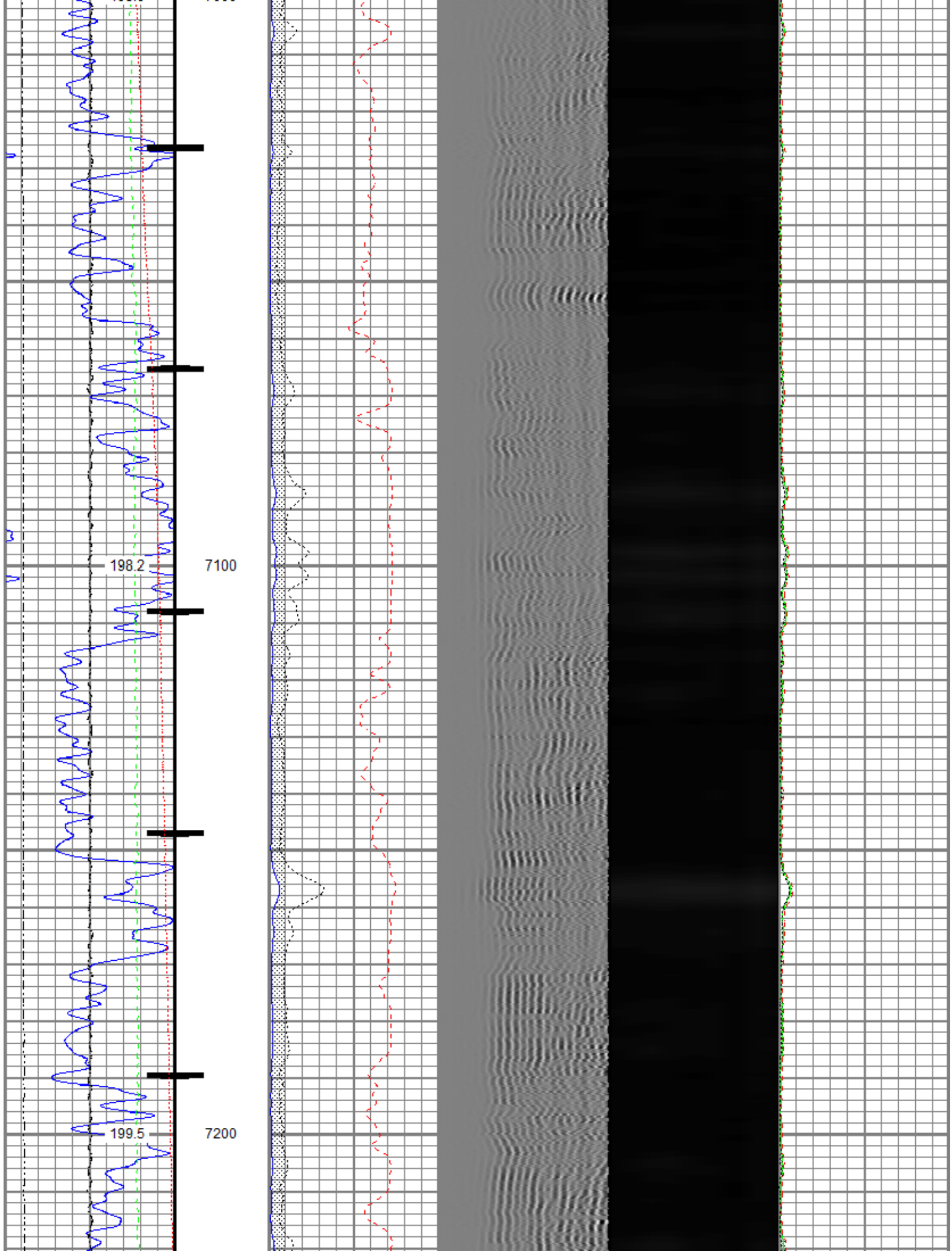


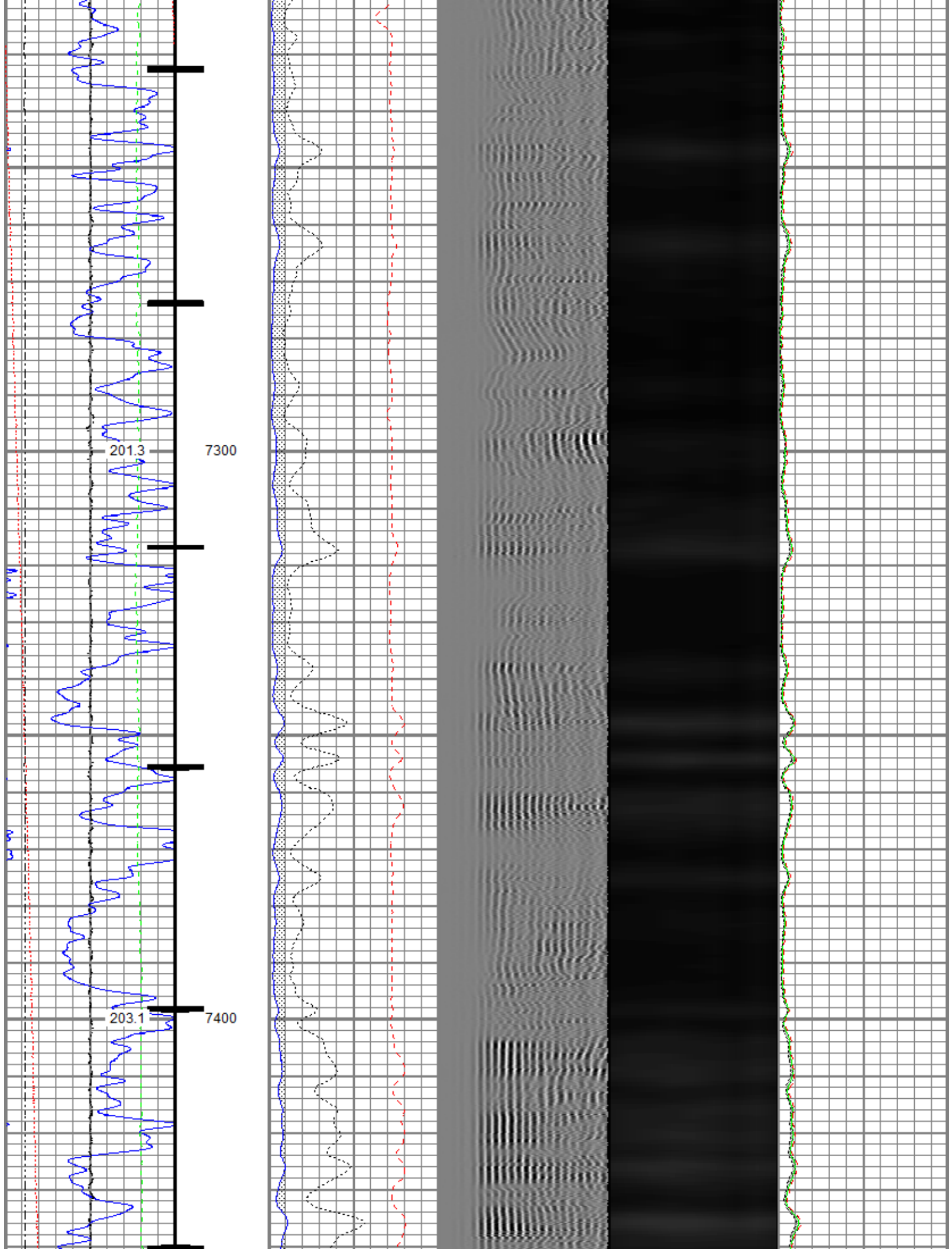


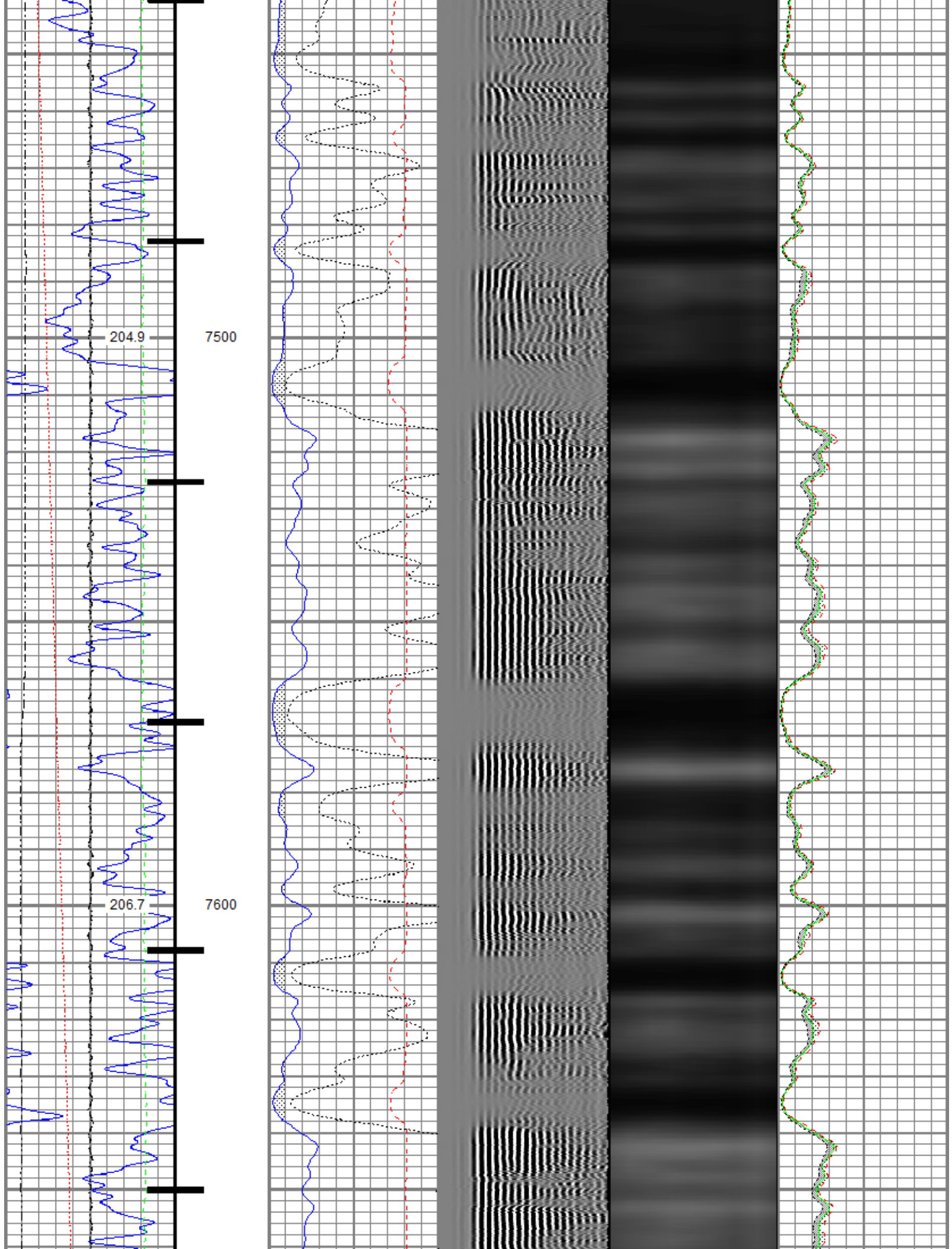


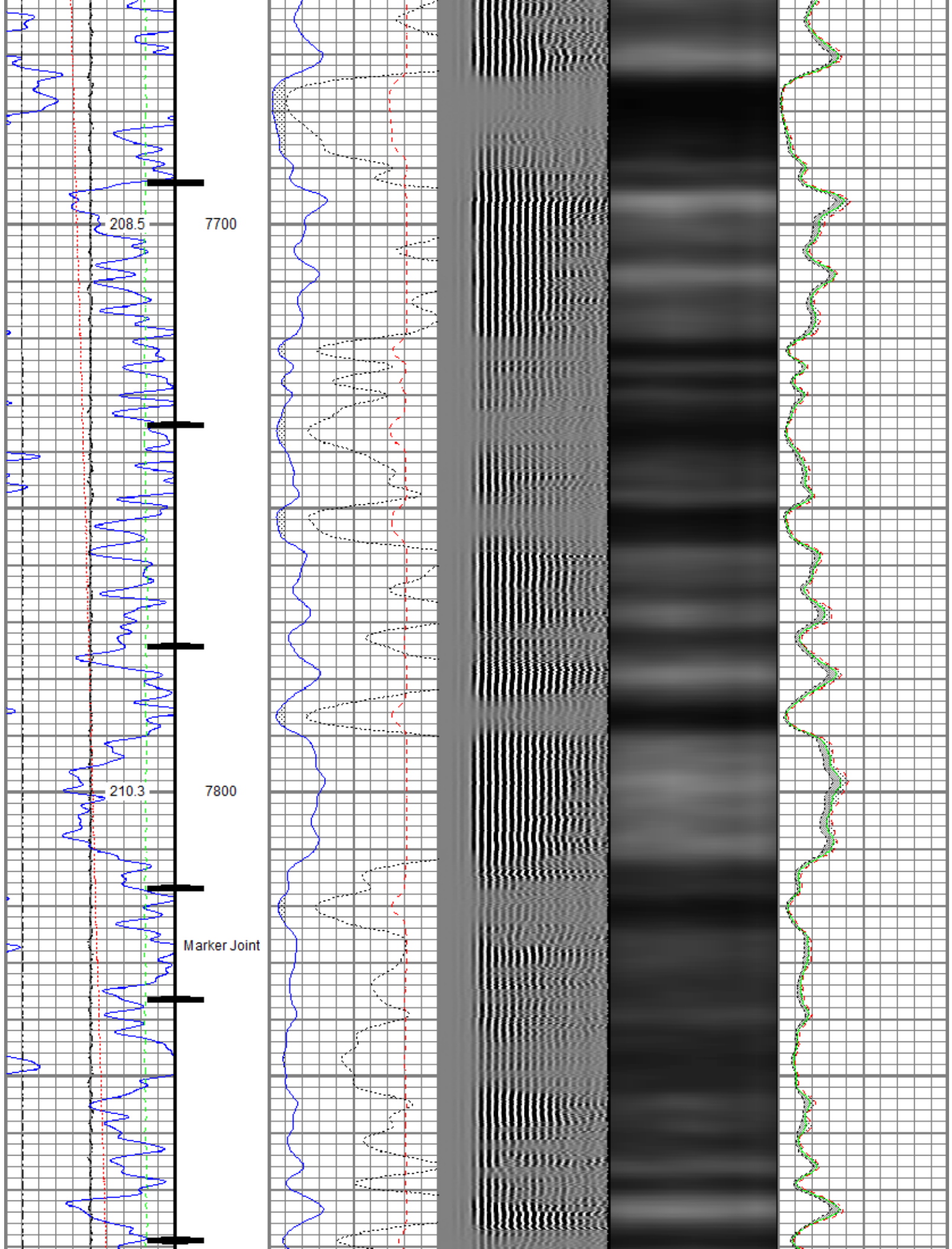


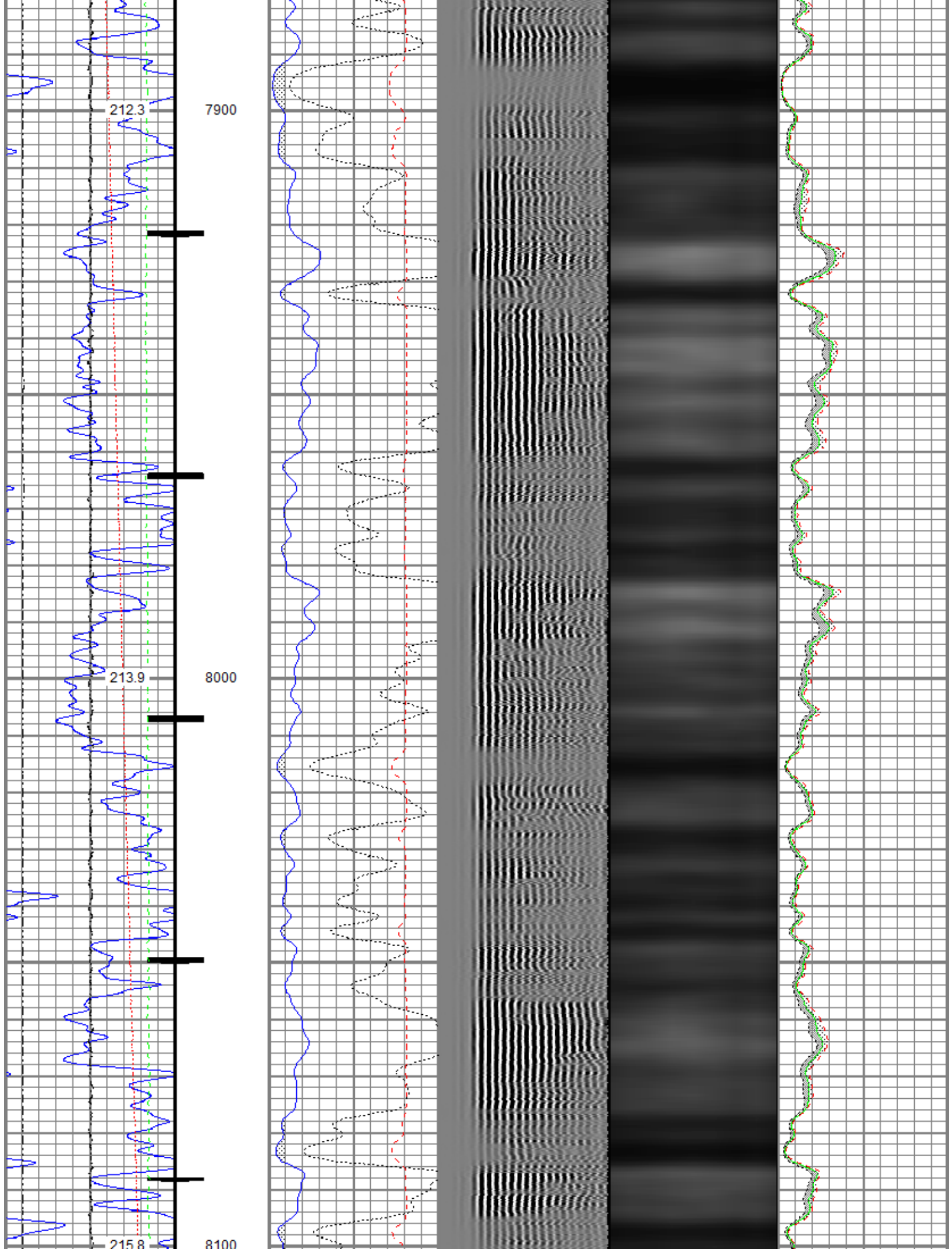


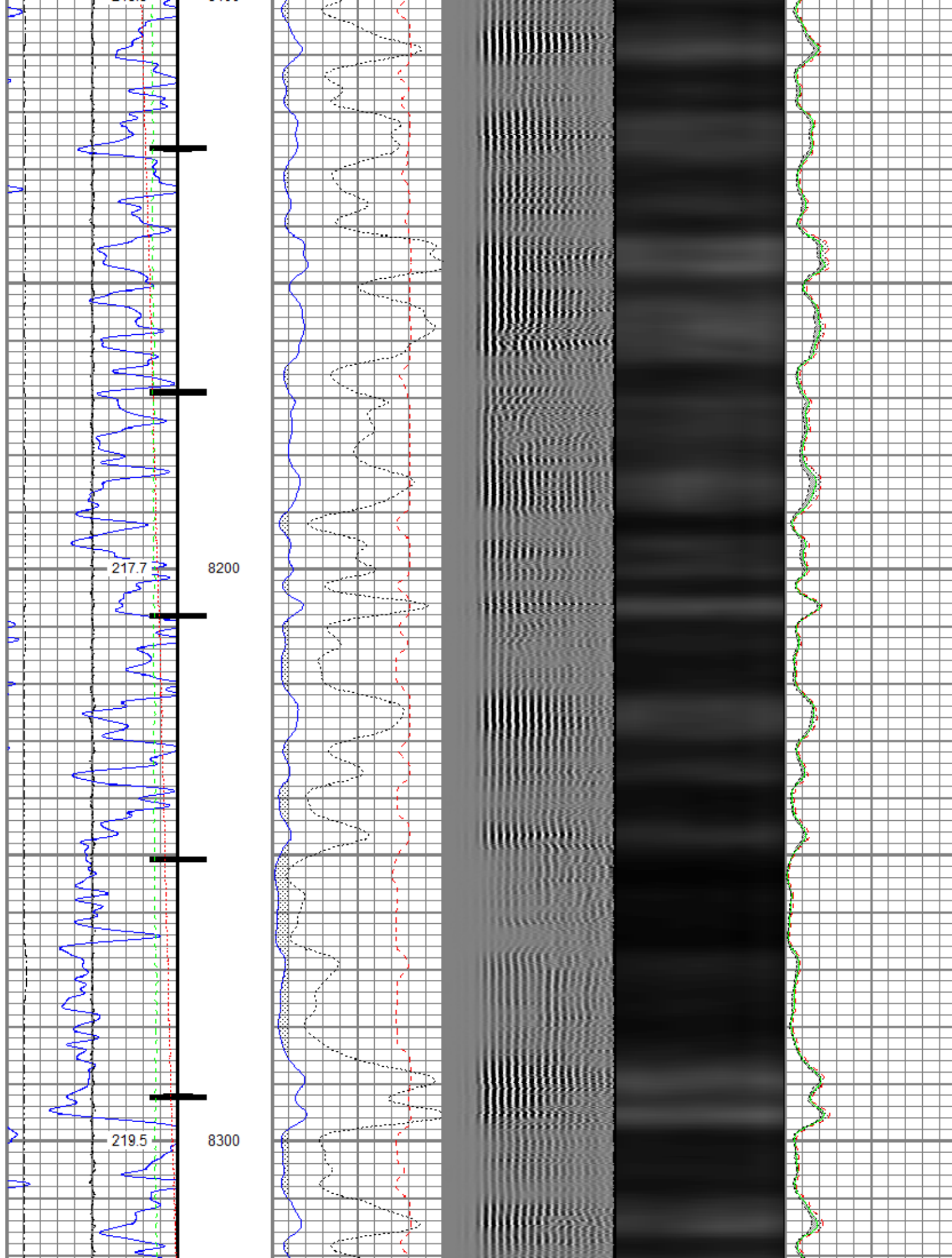


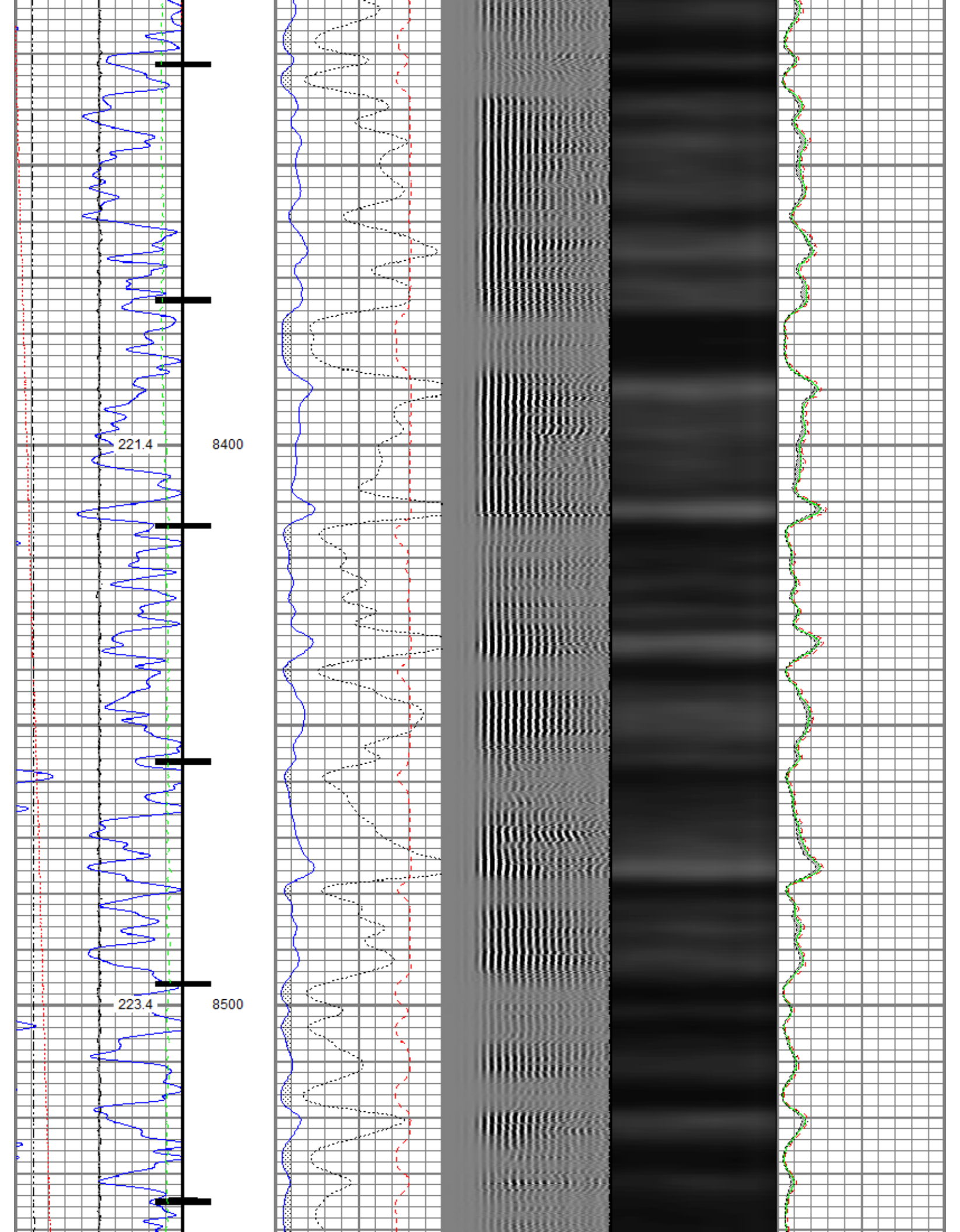


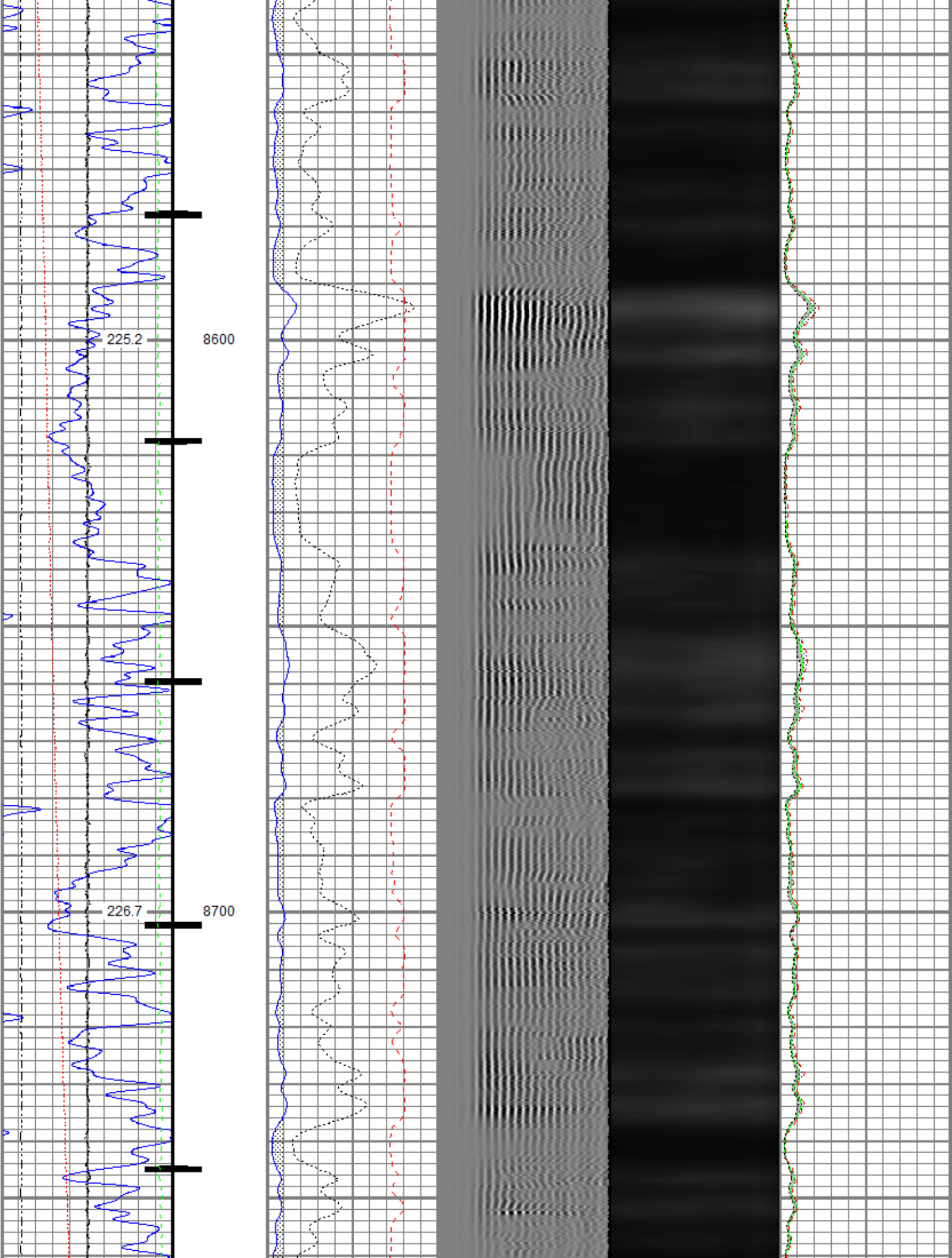


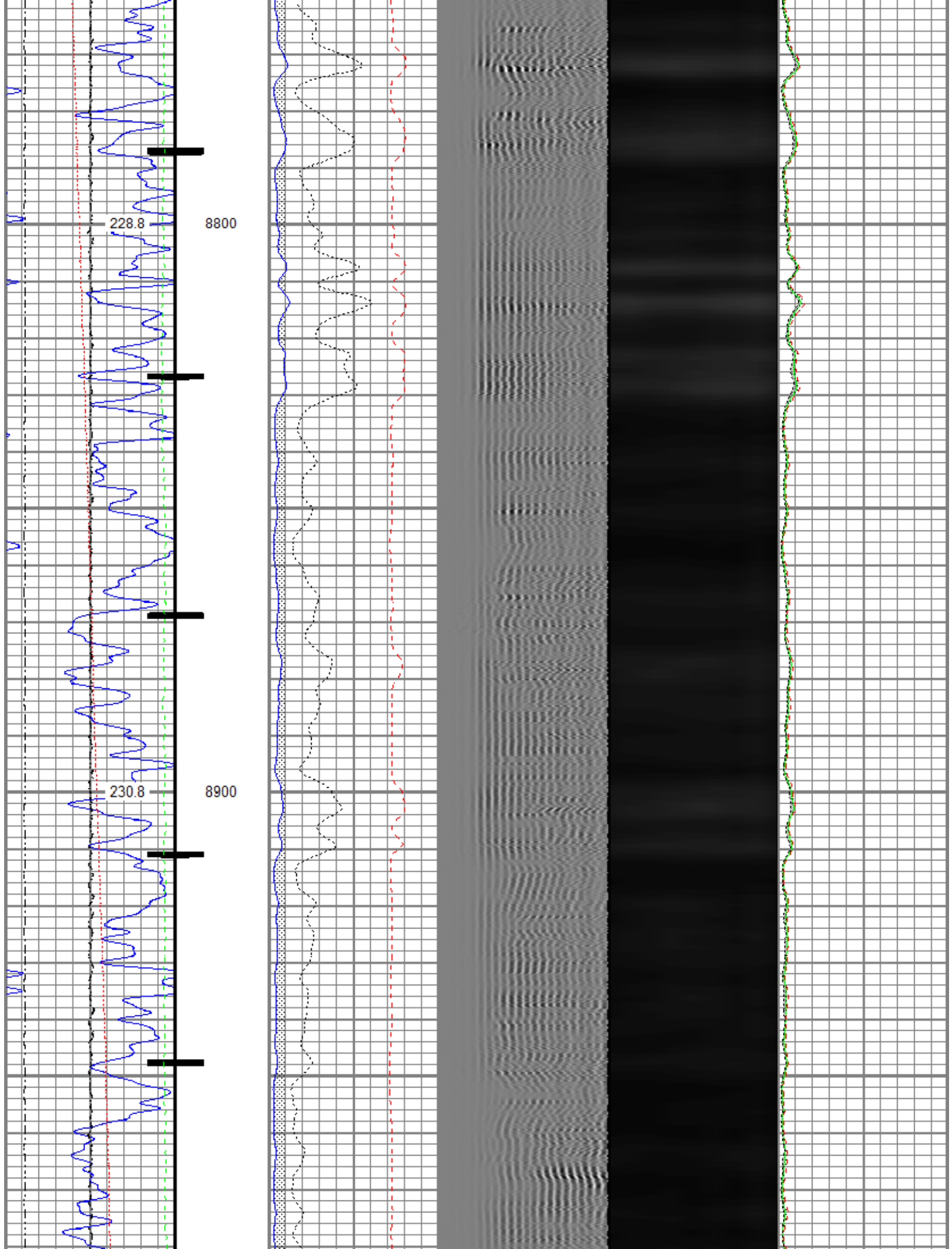


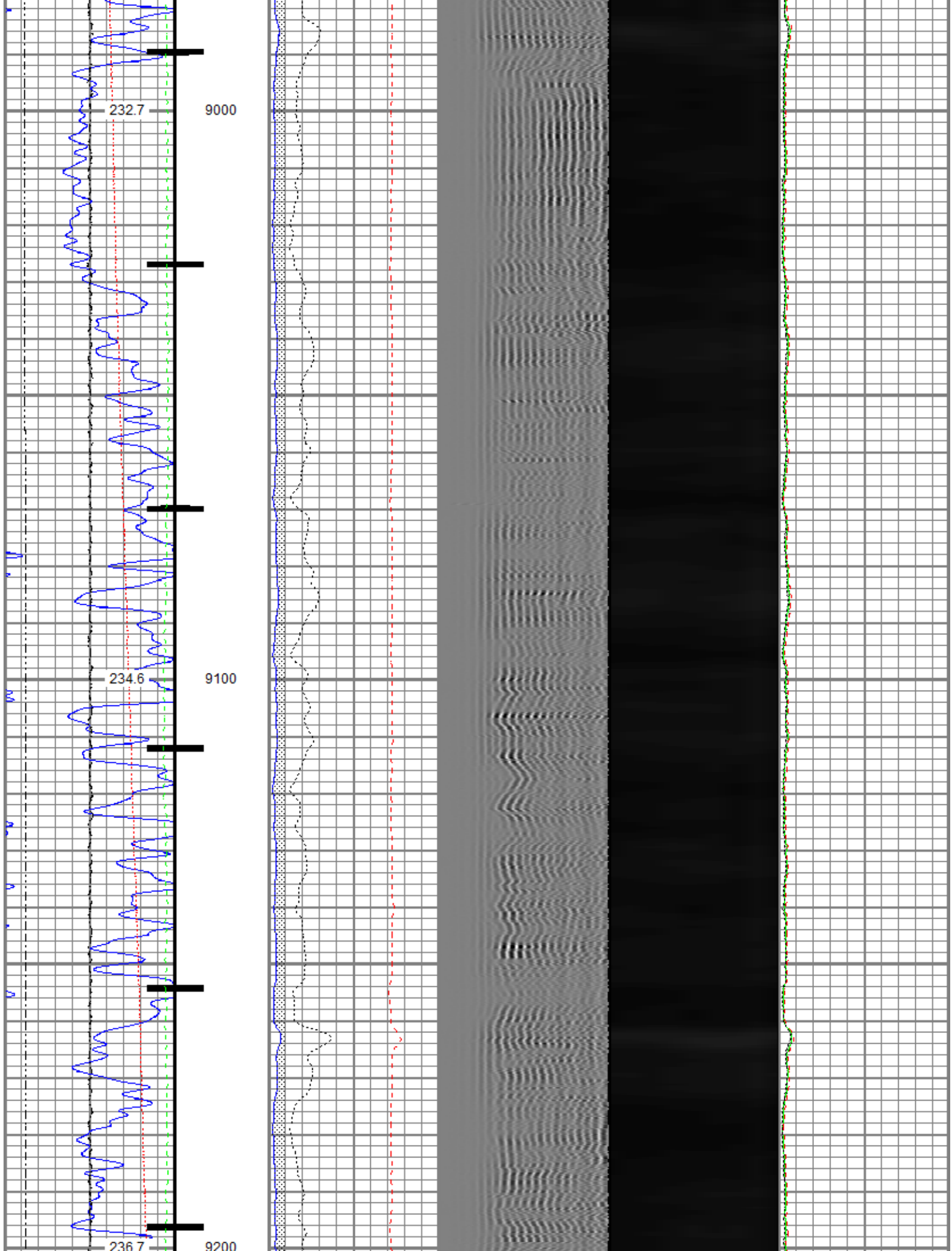


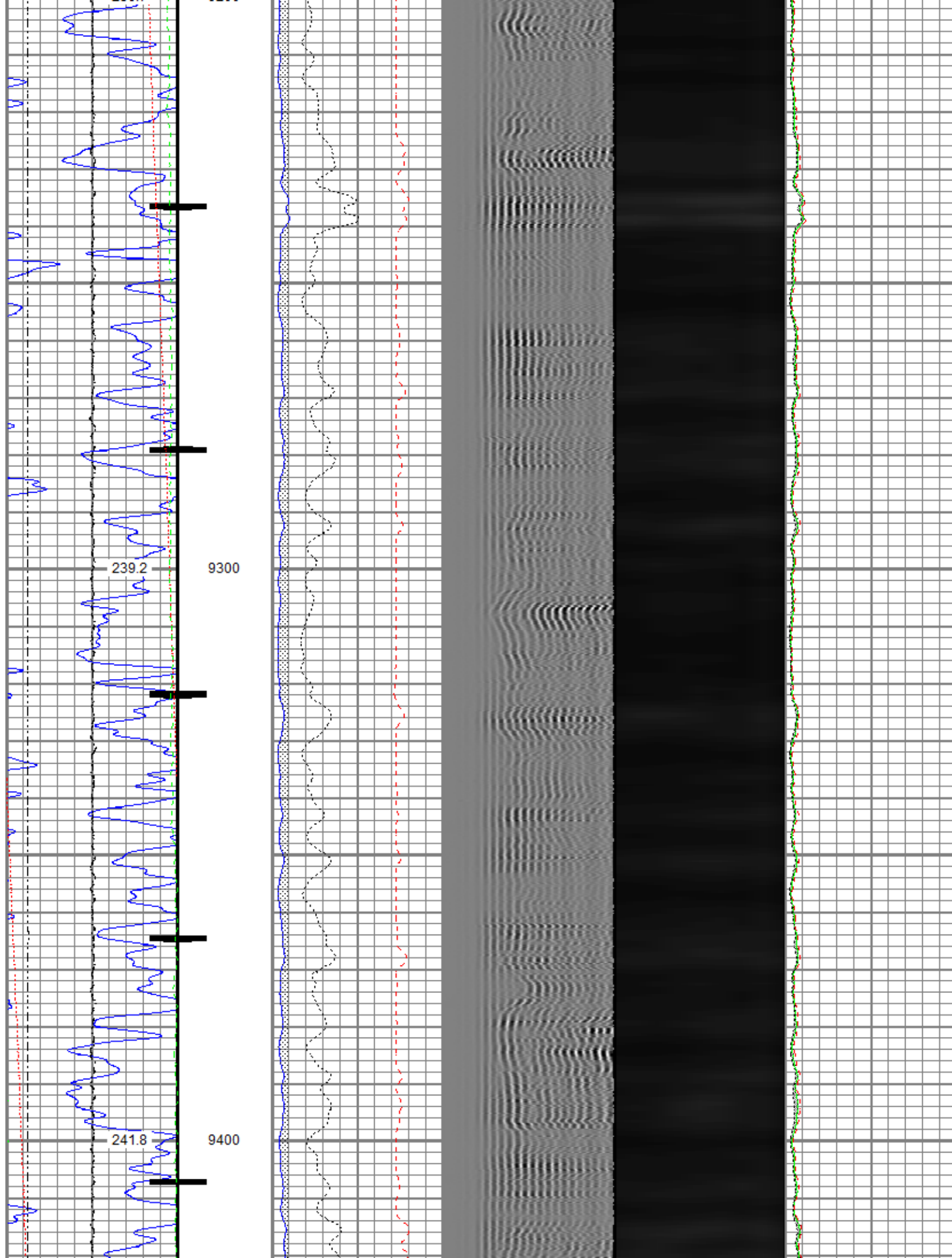


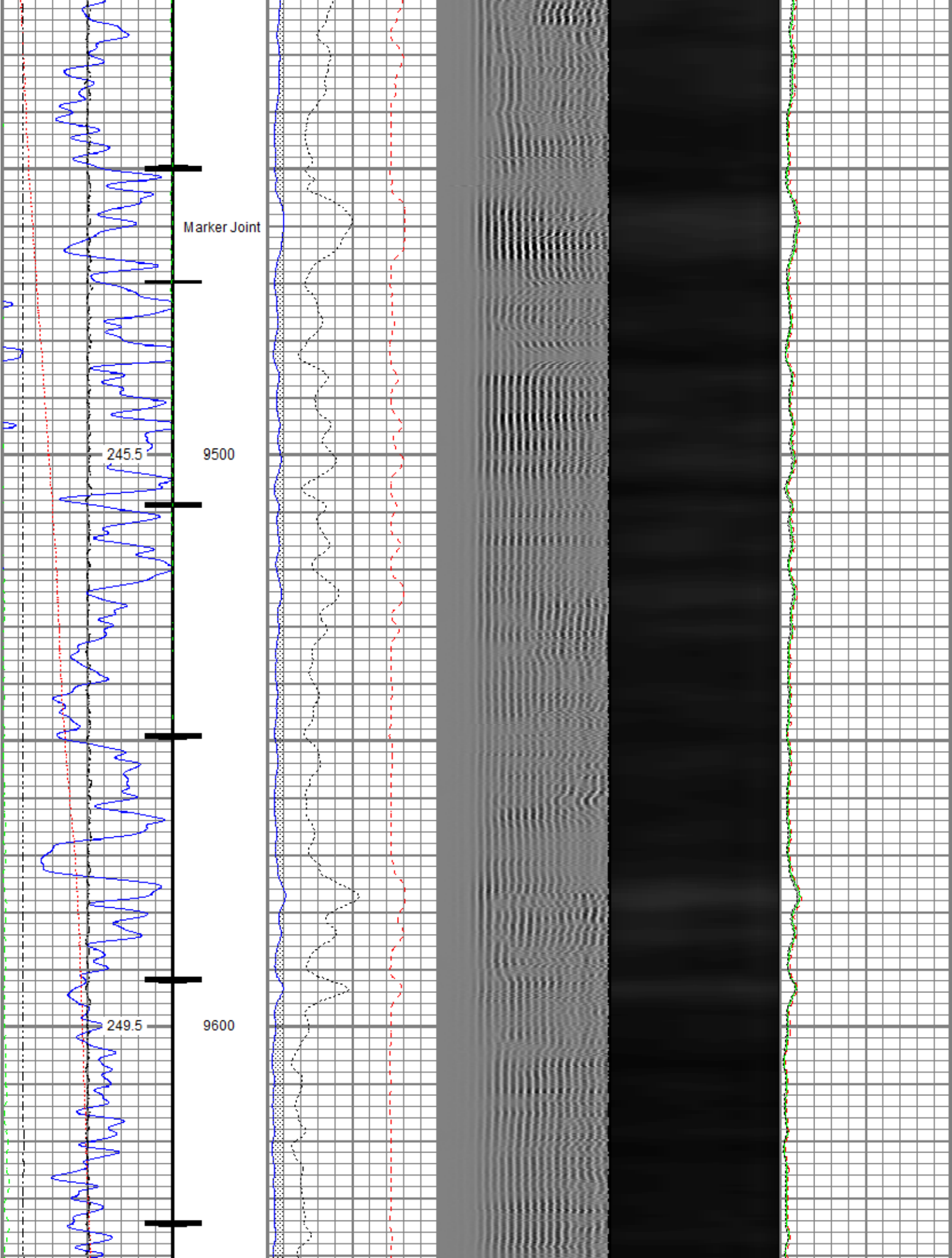


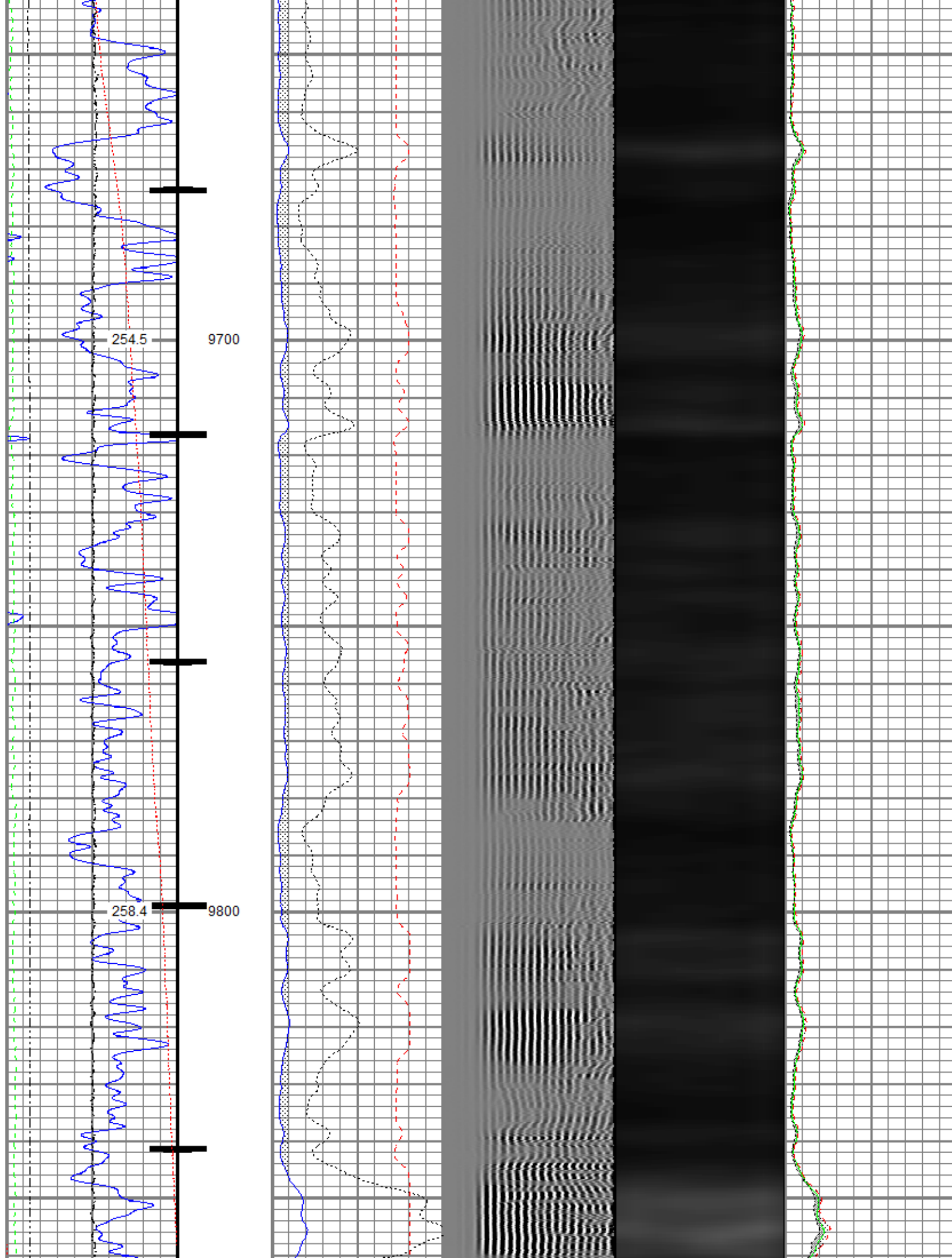


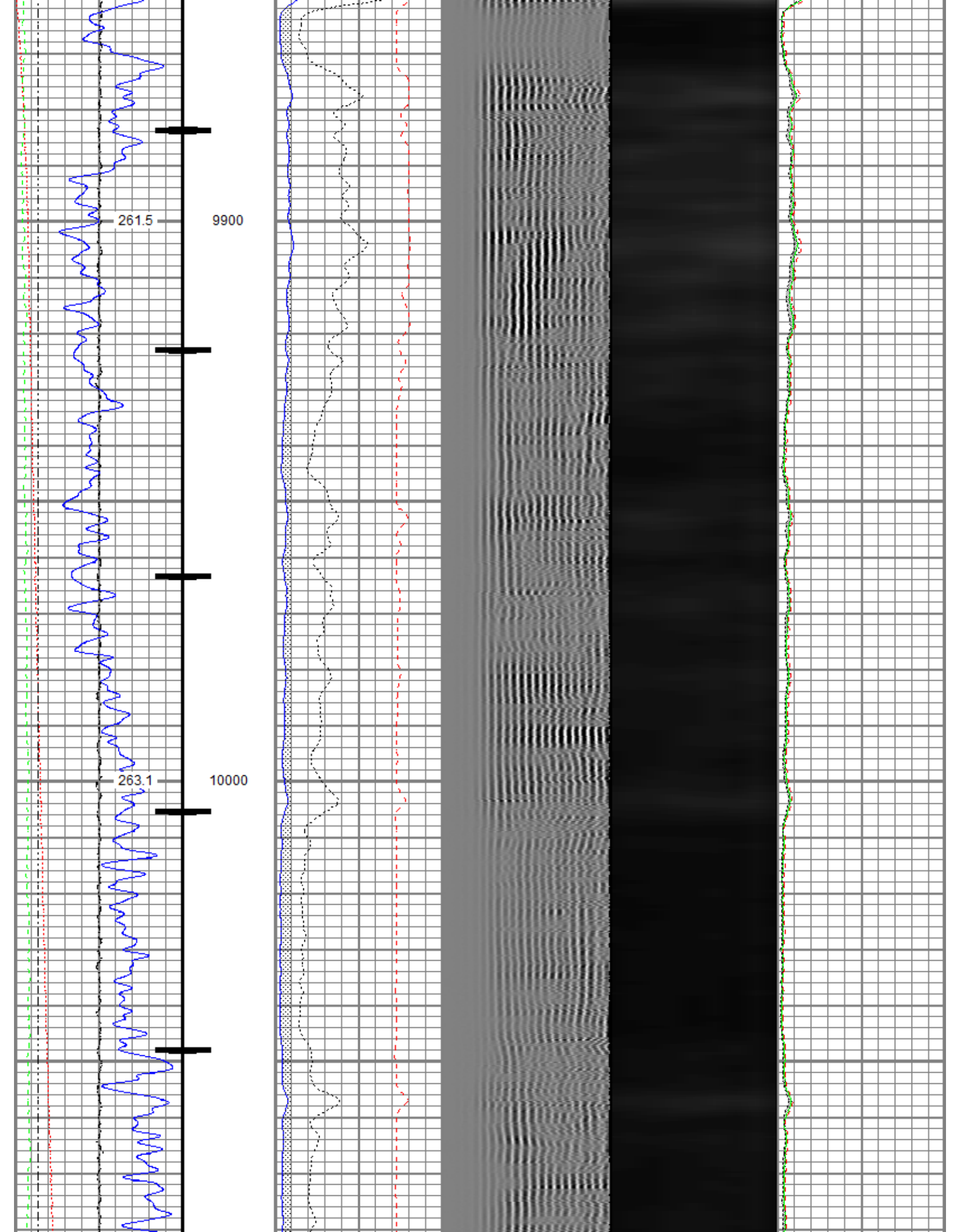


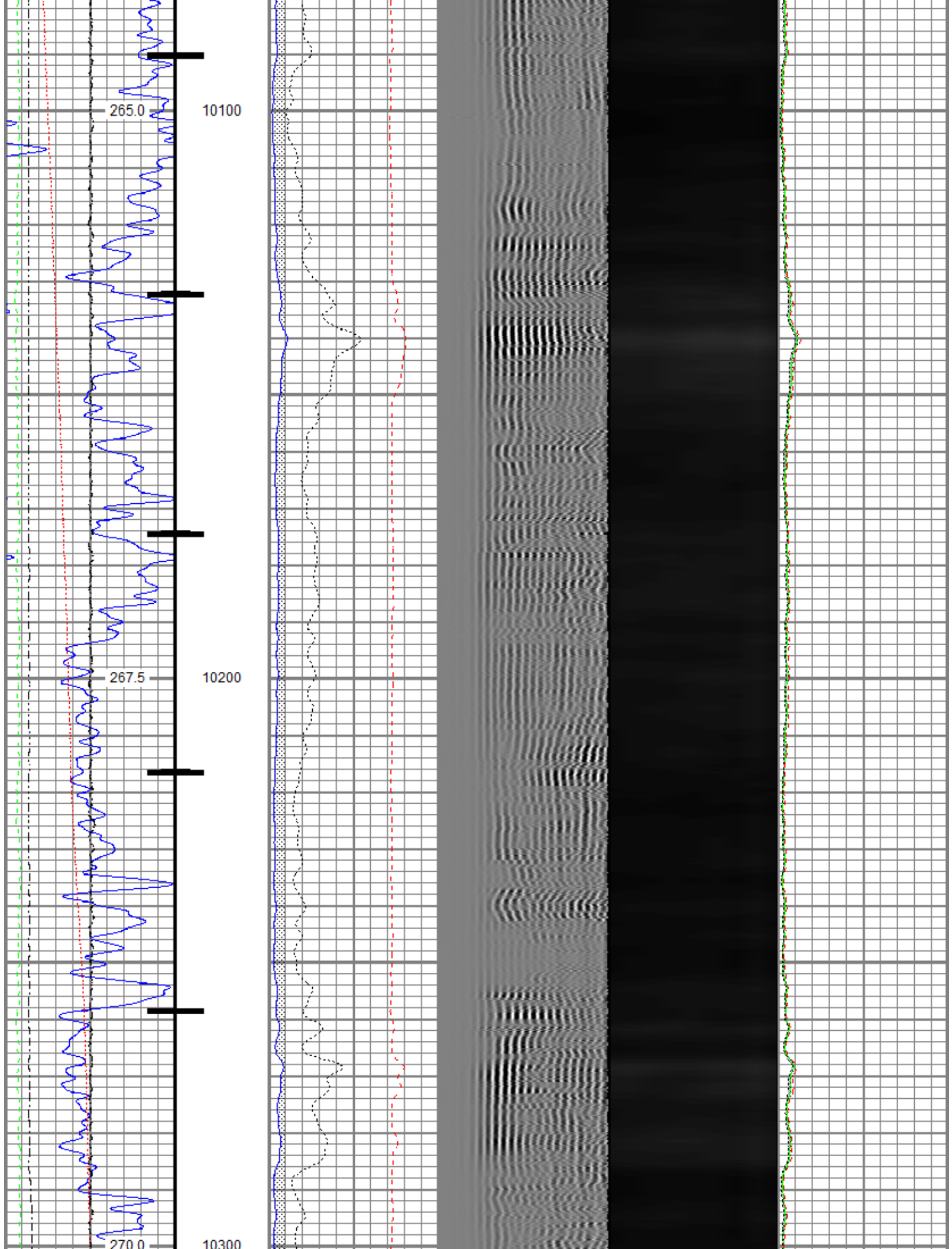


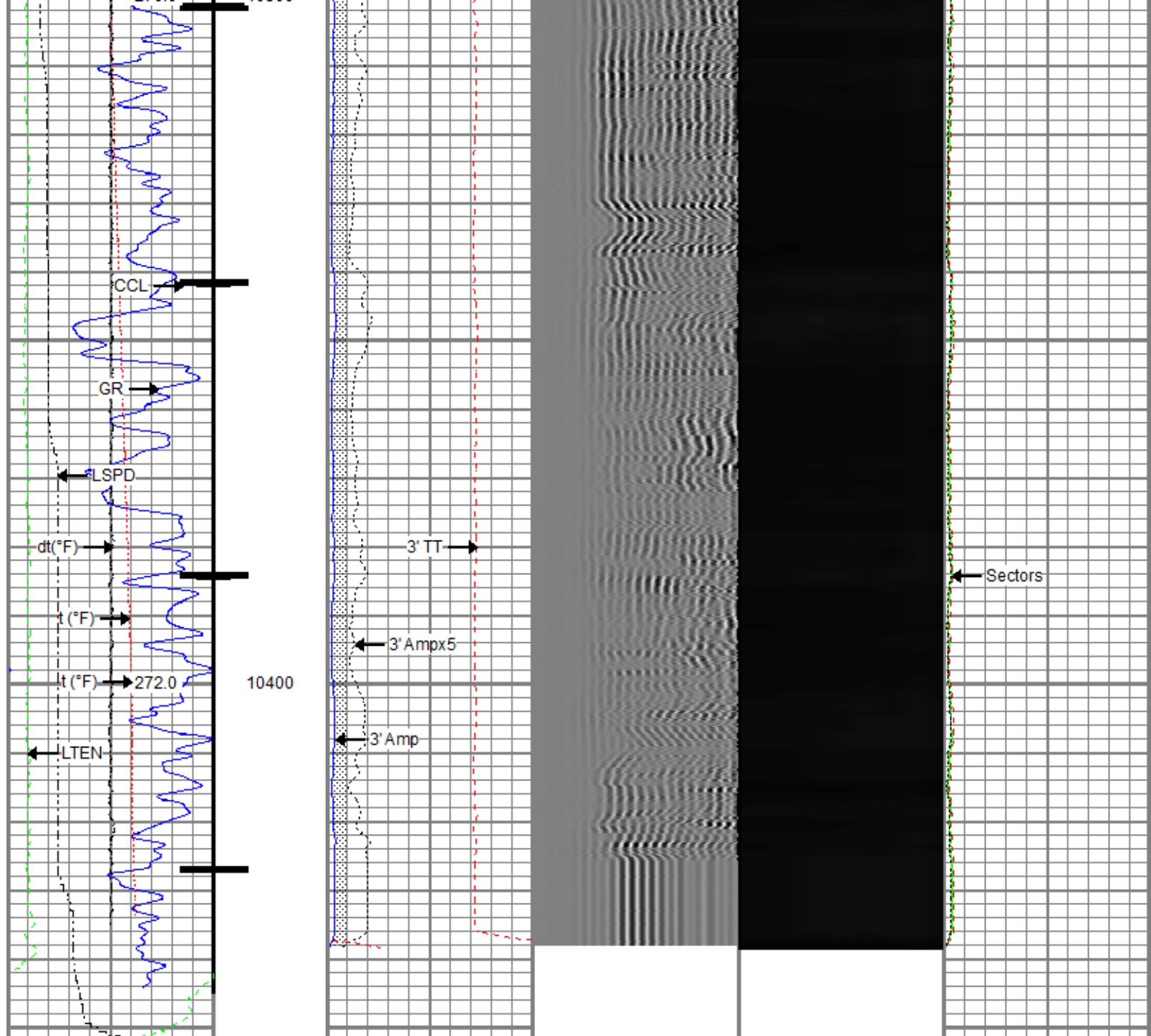












Gamma Ray (GAPI)	0	120	3' Amplitude (mV)	0	100	5' Variable Density Log (usec)	200	1200	Sector Map	Average Amplitude	0	100
Casing Collar Locator	0	20	3' Amplitude x 5 (mV)	0	20					Minimum Amplitude	0	100
Temperature (degF)	0	20	3' Travel Time (usec)	650	150					Maximum Amplitude	0	100
Line Speed (ft/min)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

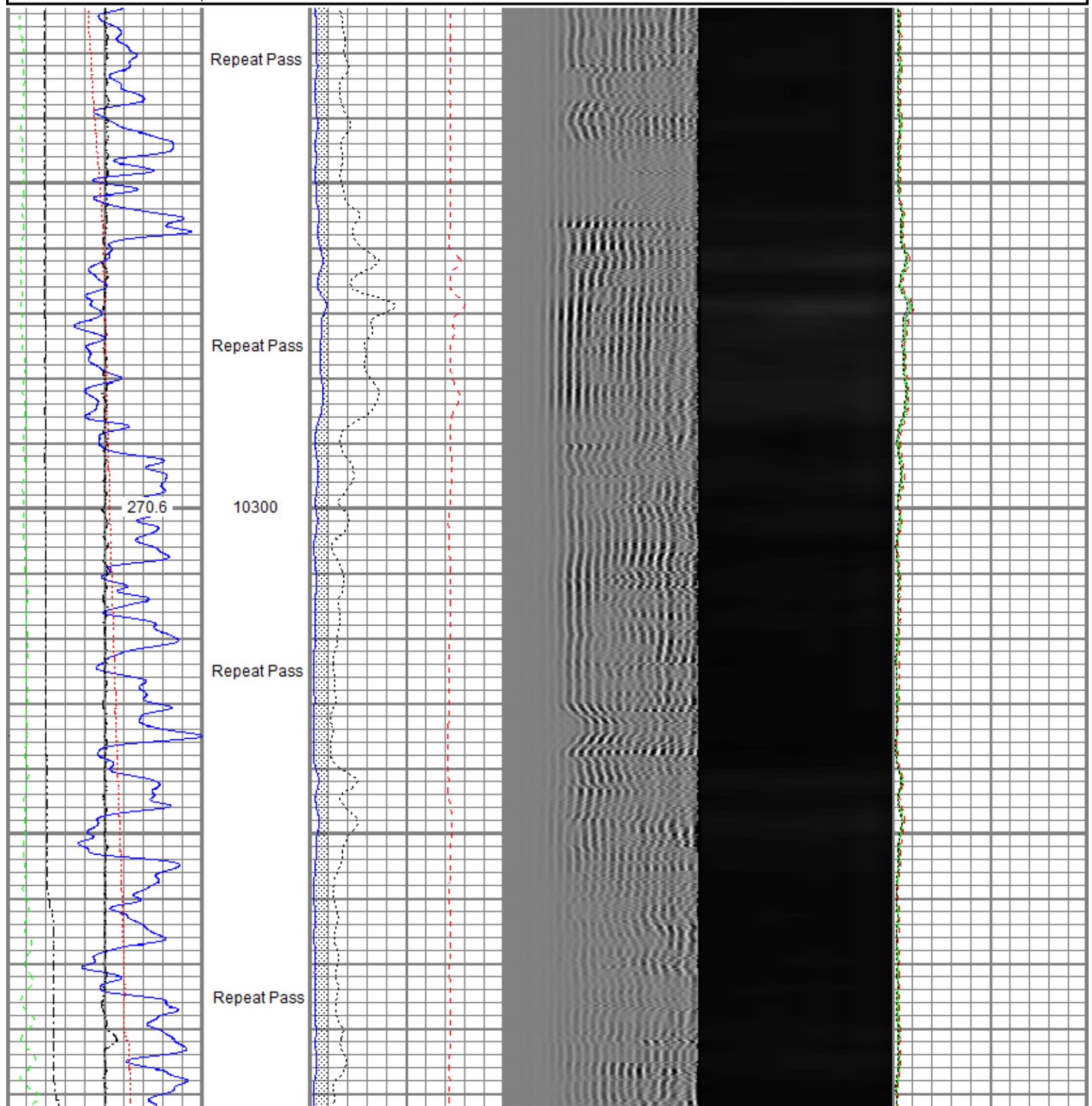


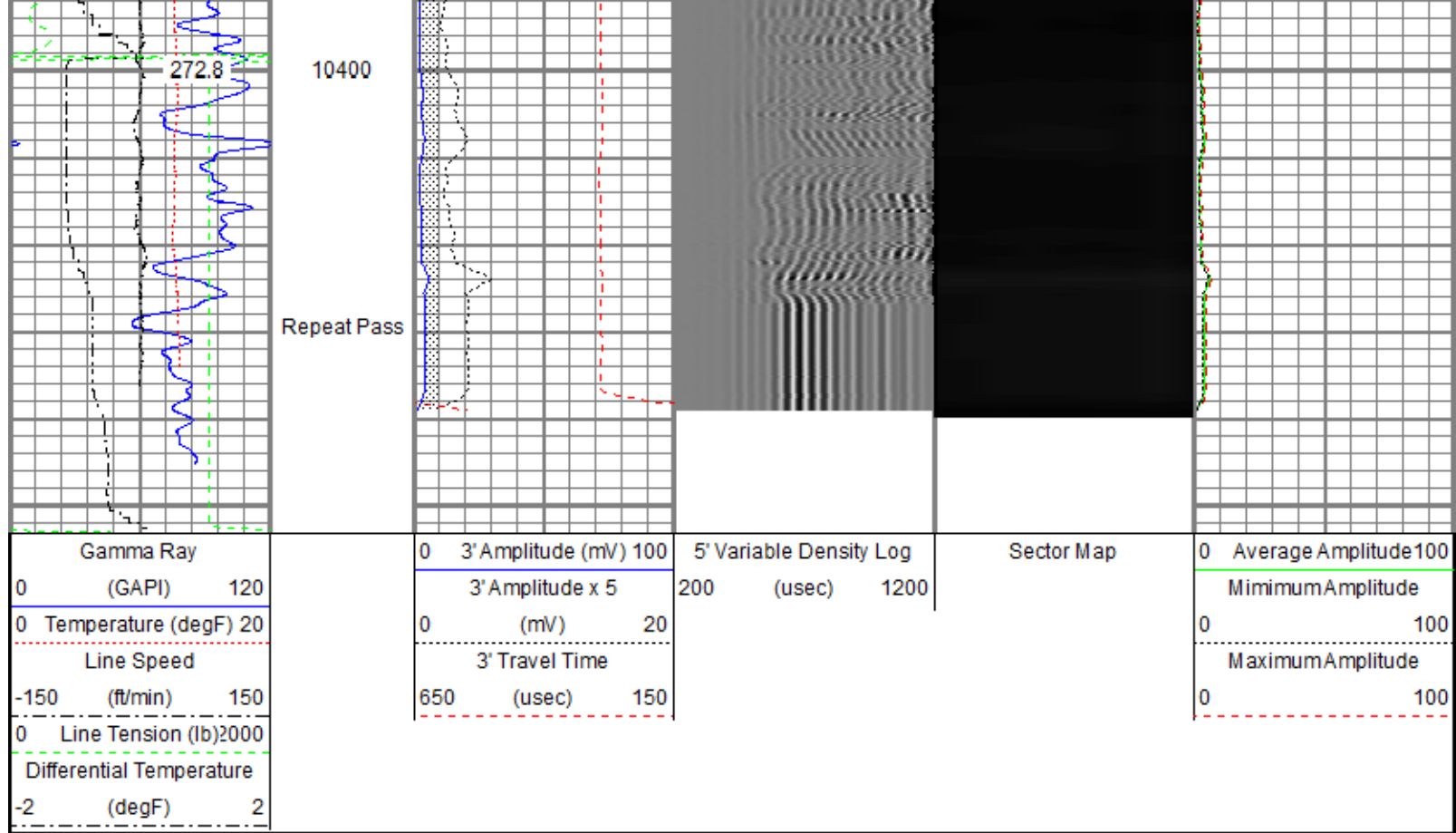
Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

Dataset Pathname: repeat.2
 Presentation Format: ros_radri
 Dataset Creation: Mon Sep 09 11:50:13 2019
 Charted by: Depth in Feet scaled 1:240

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





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	3.60
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
			Probe Radii-2750 RBT (120855) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
TEMP	17.00					
WVFS8	14.77					
WVFS7	14.77					
WVFS6	14.77					
WVFS5	14.77					
WVFS4	14.77					
WVFS3	14.77					
WVFS2	14.77					
WVFS1	14.77					
WVFCAL	14.77					
WVF3FT	14.77					

WVF5FT	13.77			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
CCL\$2	6.76						
CCL\$1	6.76						
GR	5.51			Probe GR-CCL-2750 GOB (FW1211-081) Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined with GO Bottom	4.51	2.75	55.00
				Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
				GO BN-14375 GO 1-7/16" Bull Nose with Go Box Top	0.25	1.44	1.00

Dataset: processed_laramie energy_cc federal 0697-03-08w_rbl_09-03-19.db: field/well/run1/main.2
 Total length: 23.82 ft
 Total weight: 224.60 lb
 O.D.: 2.75 in

Calibration Report

Database File c:\programdata\warrior\data\laramie\laramie energy_cc federal 0697-03-08w_rbl_09-03-19\processed_laramie energy_cc federal
 Dataset Pathname main.2
 Dataset Creation Mon Sep 09 11:35:40 2019

Gamma Ray Calibration Report

Serial Number: FW1211-081
 Tool Model: 2750 GOB
 Performed: Mon Oct 01 11:32:39 2018
 Calibrator Value: 637.0 GAPI
 Background Reading: 112.4 cps
 Calibrator Reading: 1008.7 cps
 Sensitivity: 0.7107 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 120855
 Tool Model: 2750 RBT
 Calibration Casing Diameter: 4.500 in
 Calibration Depth: 34.669 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.004	0.775	0.800	81.196	103.122	1.226
CAL	-0.006	0.742				
5'	-0.002	0.687	0.800	81.196	116.817	0.995
SUM						

S1	-0.012	0.901	0.000	100.000	109.519	1.314
S2	-0.009	1.005	0.000	100.000	98.620	0.909
S3	-0.011	1.032	0.000	100.000	95.914	1.007
S4	-0.010	1.004	0.000	100.000	98.622	0.993
S5	-0.009	0.956	0.000	100.000	103.694	0.903
S6	-0.010	0.877	0.000	100.000	112.732	1.121
S7	-0.010	0.827	0.000	100.000	119.456	1.153
S8	-0.011	0.816	0.000	100.000	120.915	1.349

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.006	0.742	1.000	0.000

Air Zero Calibration, performed Mon Sep 02 06:52:09 2019:

	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	

Temperature Calibration Report

Serial Number: 120855
Tool Model: 2750 RBT
Performed: Mon Oct 01 11:32:15 2018

	Reference	Reading
Low Reference:	100.00 degF	112.30 degF
High Reference:	350.00 degF	394.75 degF

Gain: 0.89
Offset: 0.60
Delta Spacing: 1



Company Laramie Energy LLC
Well CC Federal 0697-03-08W
Field Grand Valley
County Garfield
State Colorado