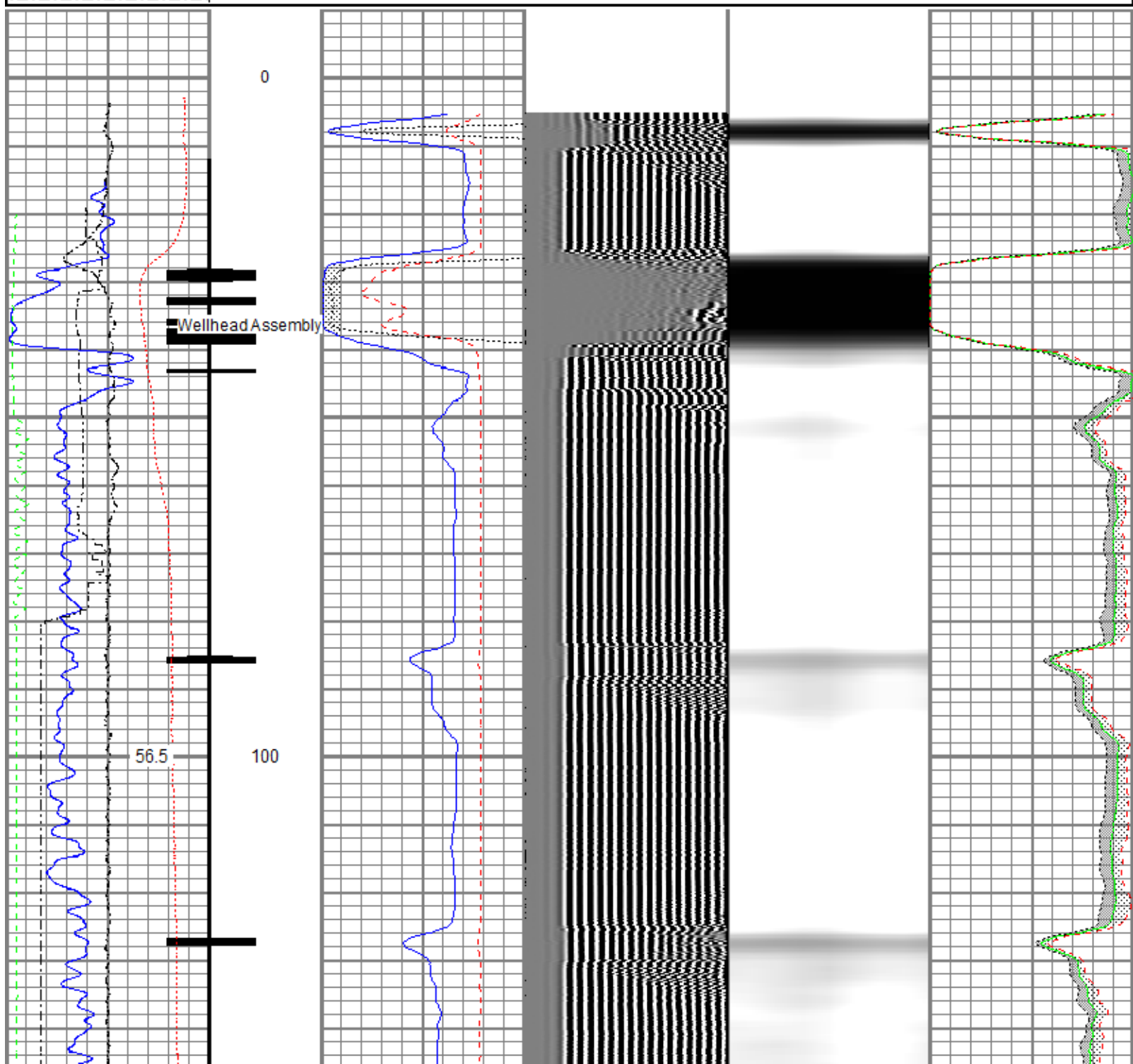
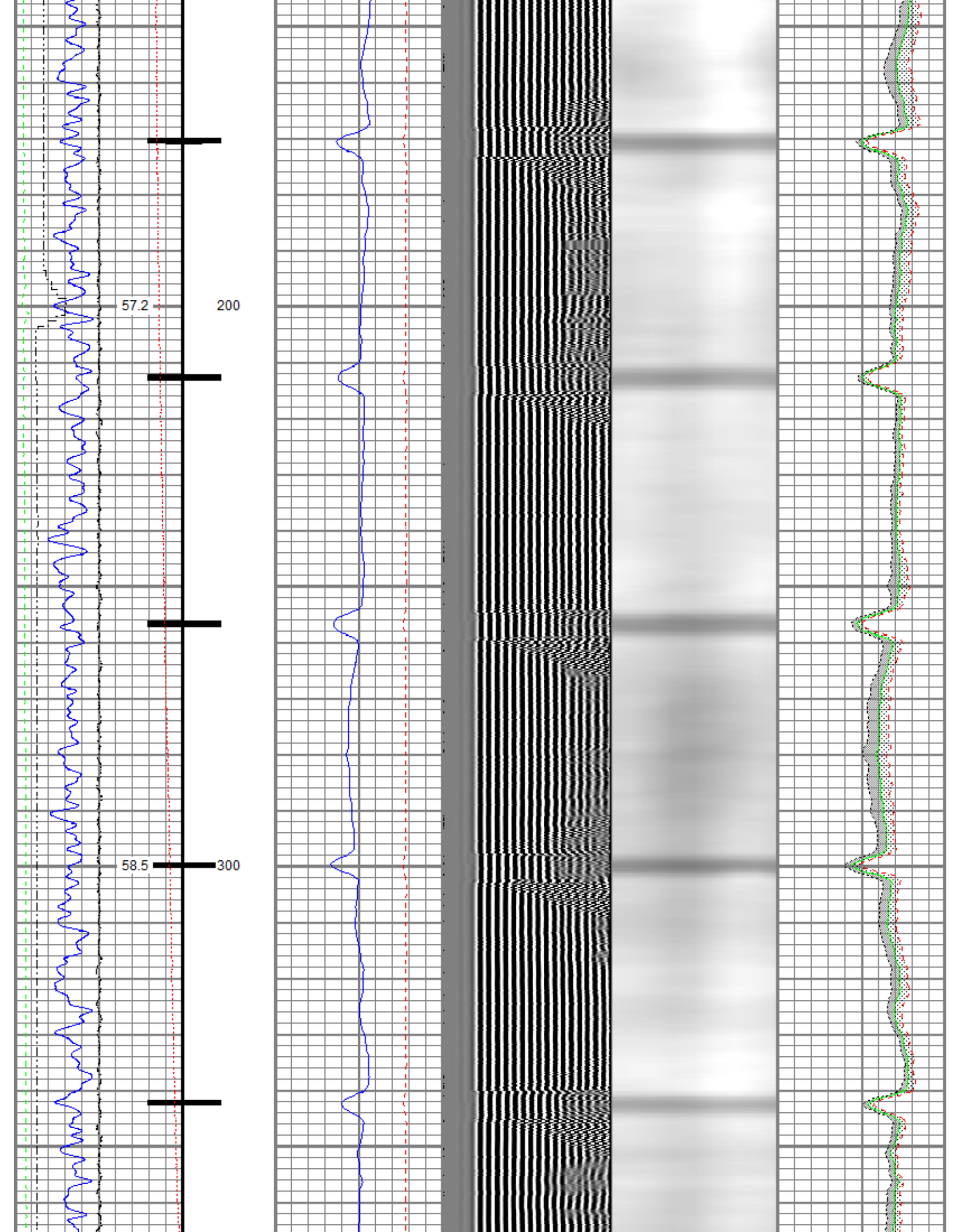


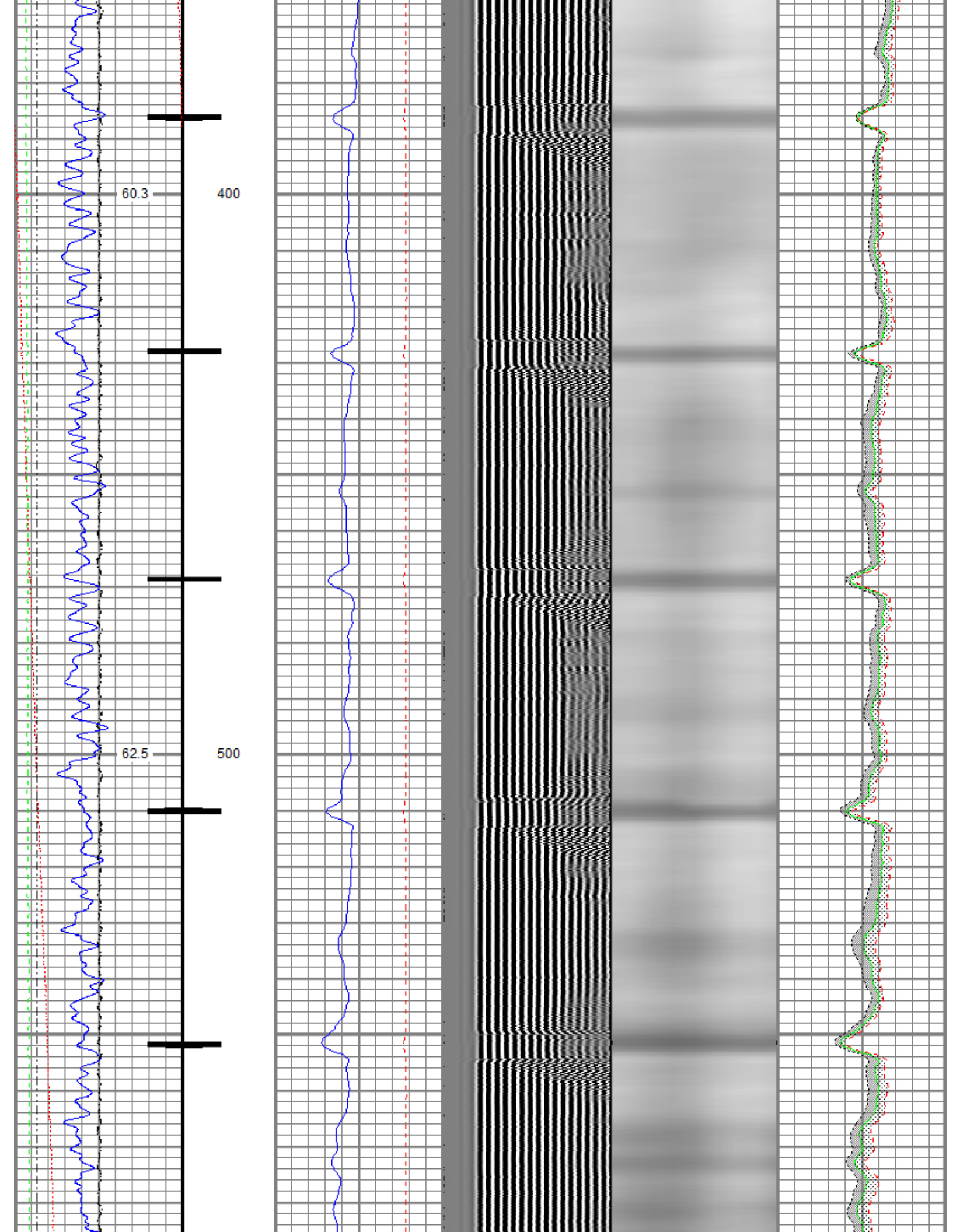
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Marker Joint from Casing Tally at 6506 FT Adjusted +1 FT to correlate with Kelly Bushing Gauge Ring/Junk Basket ran to 7545 FT with no debris Log ran from 40 FT above RBP Log ran with 2800 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>

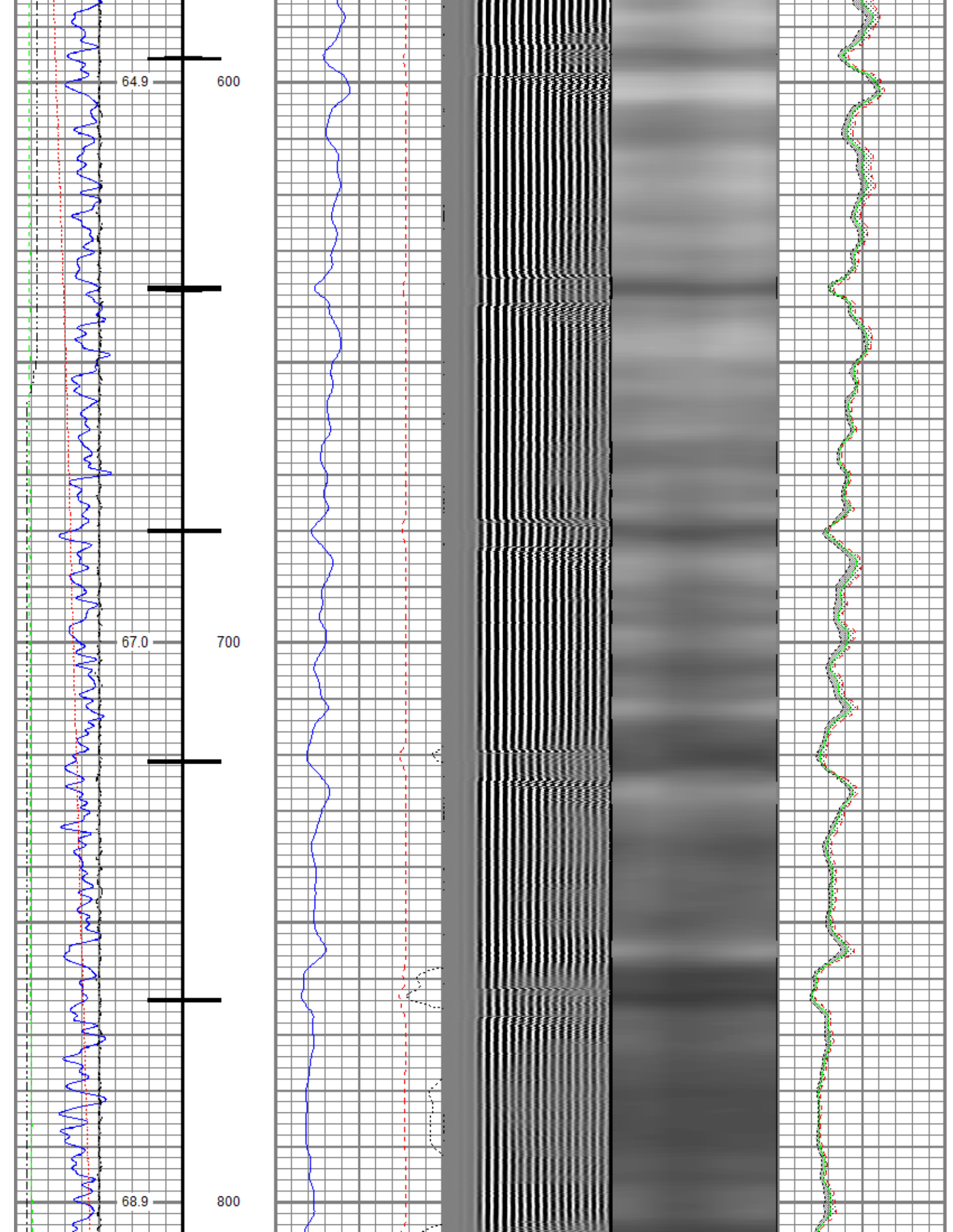
Database File	0512345092_anadarko_newby state 38n-4hz_rbl_03-18-18\0512345092_anadarko_newby state 38n-4hz_rbl_03-18-18.db
Dataset Pathname	main
Presentation Format	ros_radri
Dataset Creation	Sun Mar 18 09:34:22 2018
Charted by	Depth in Feet scaled 1:240

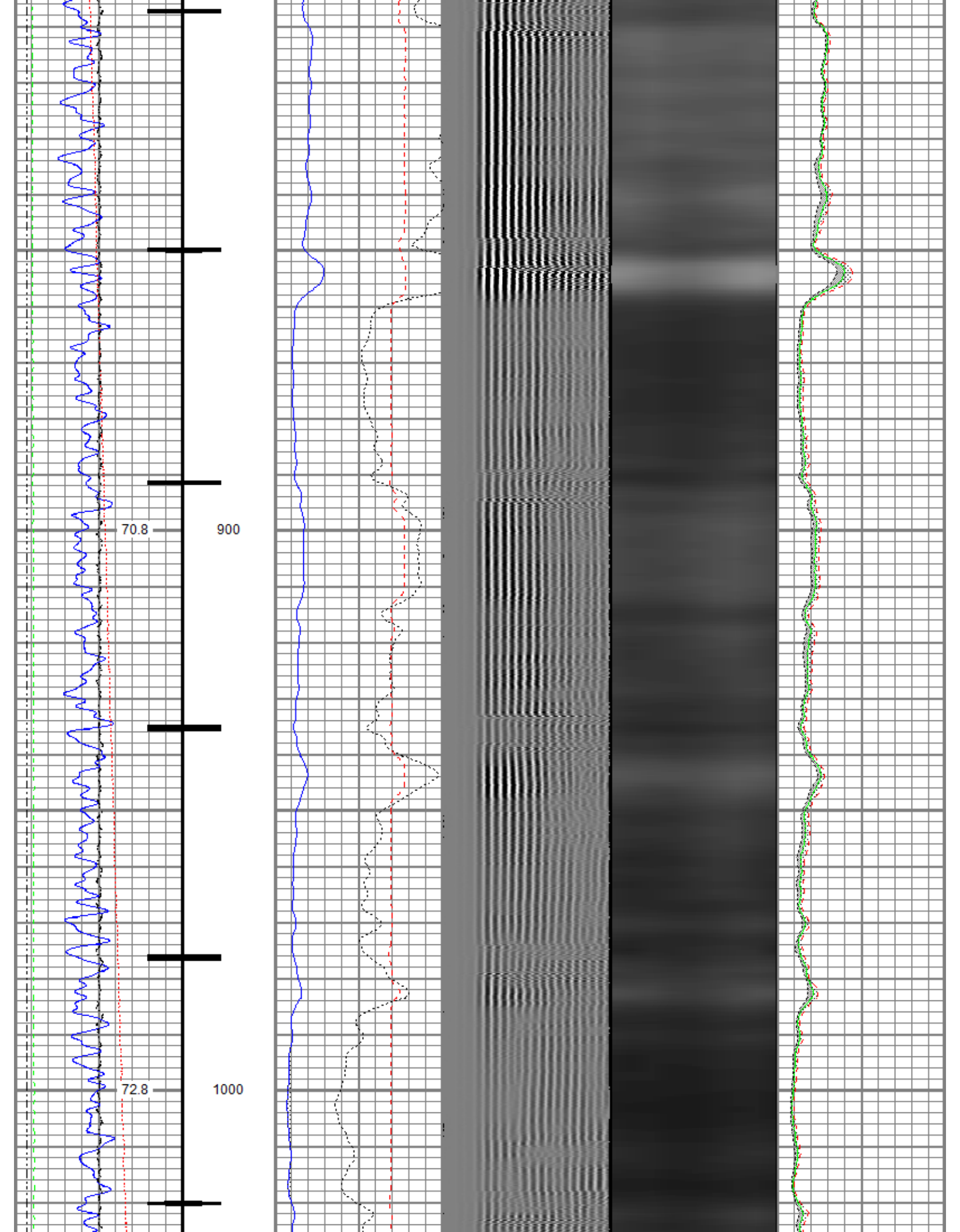
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150						
Line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

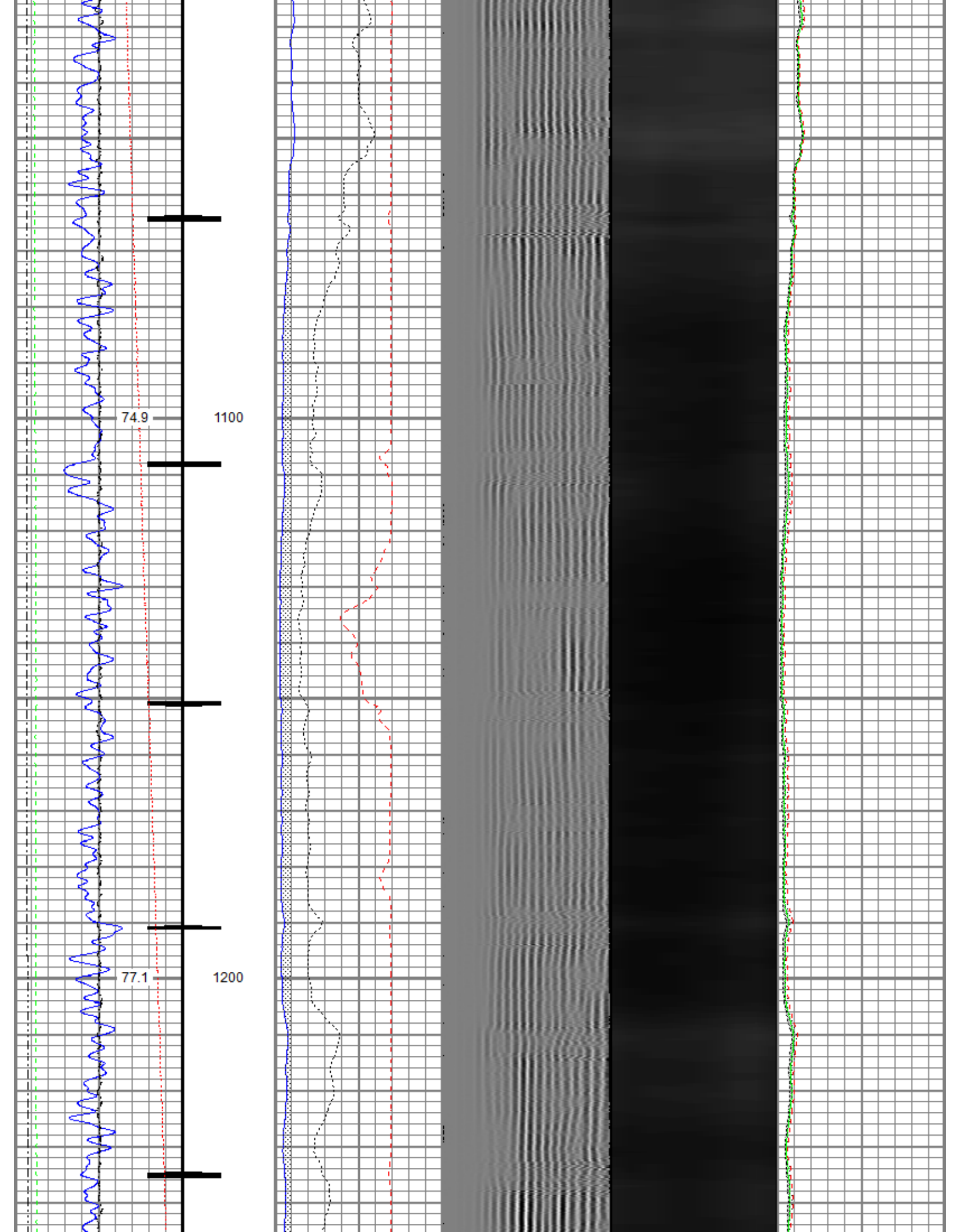


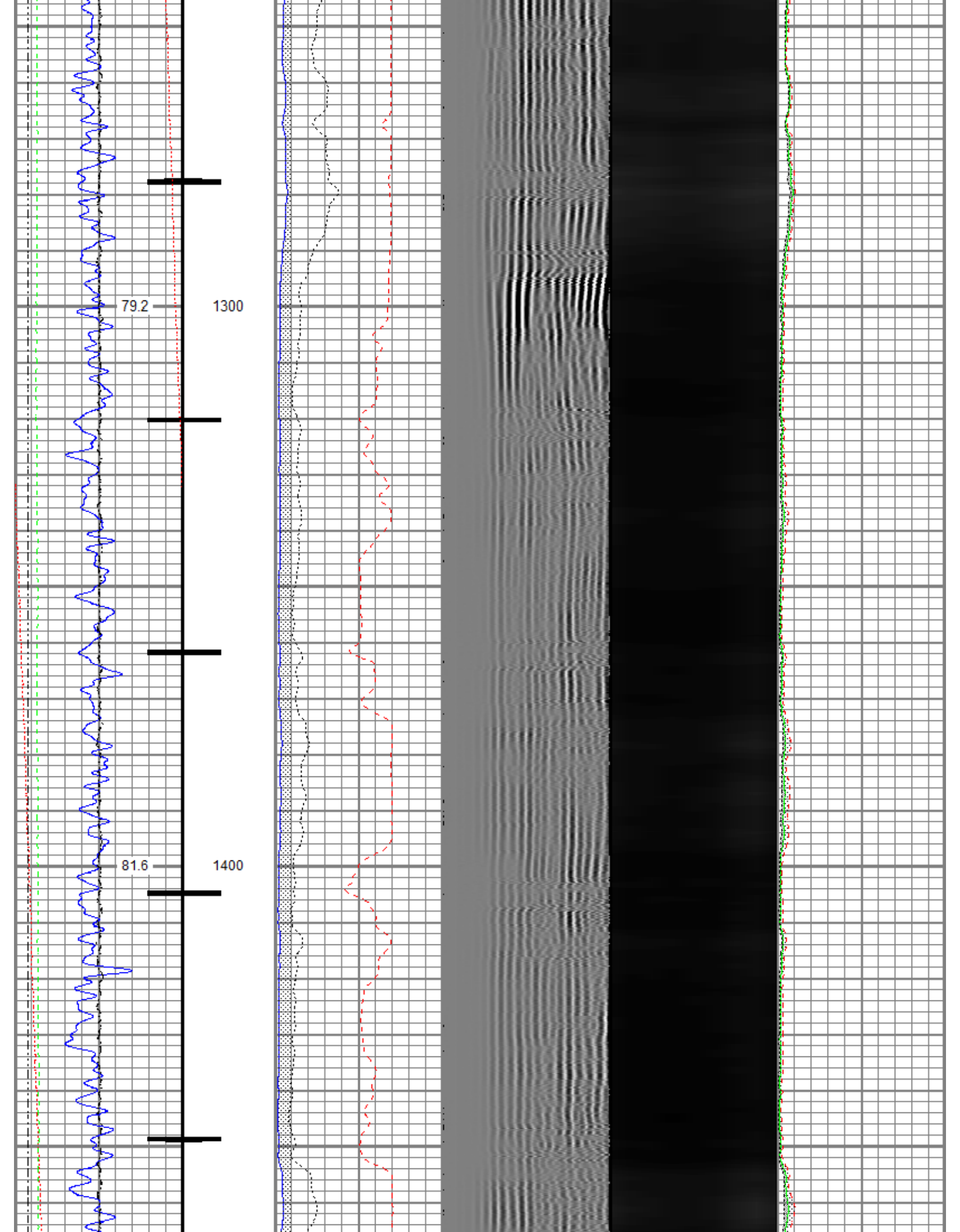


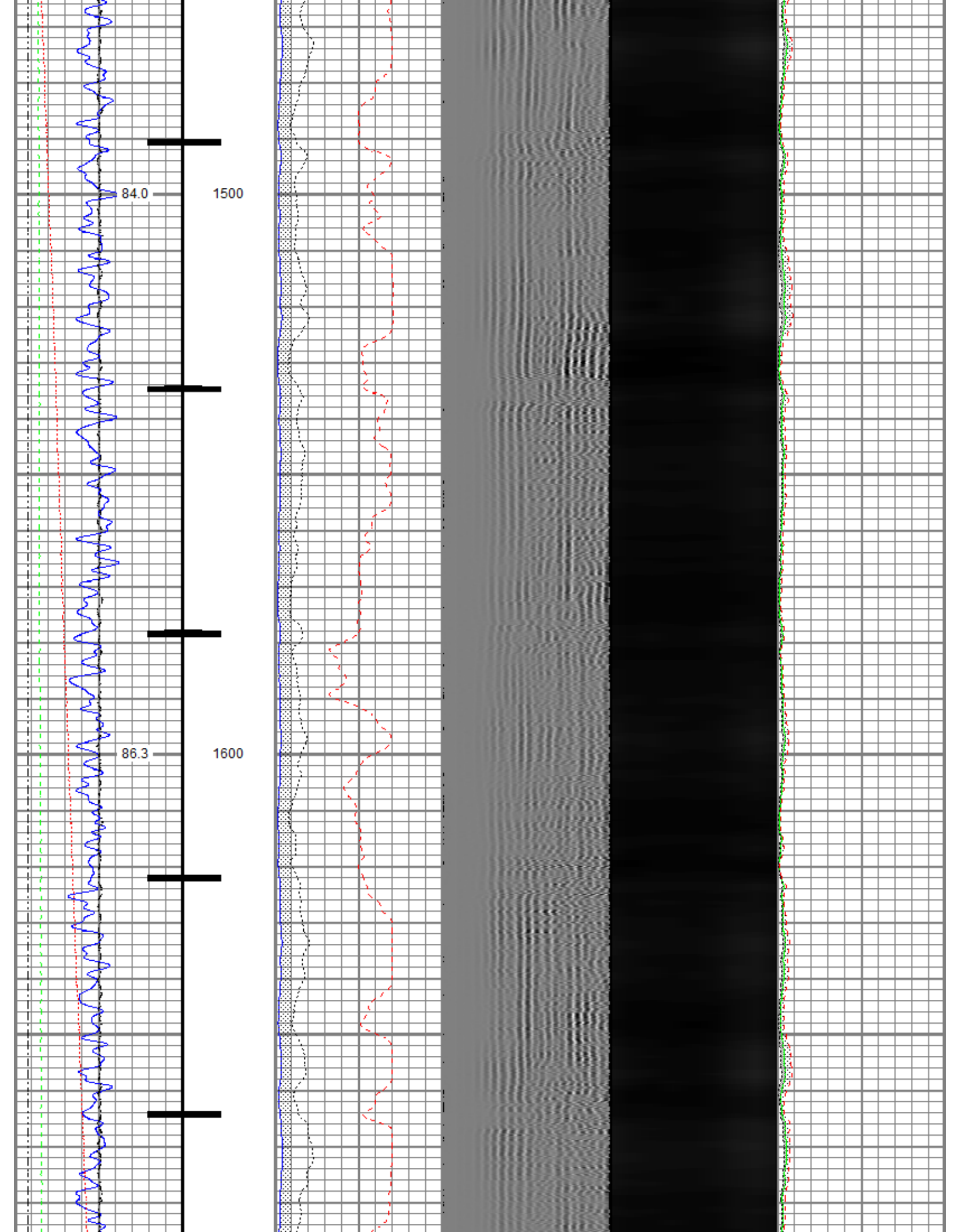


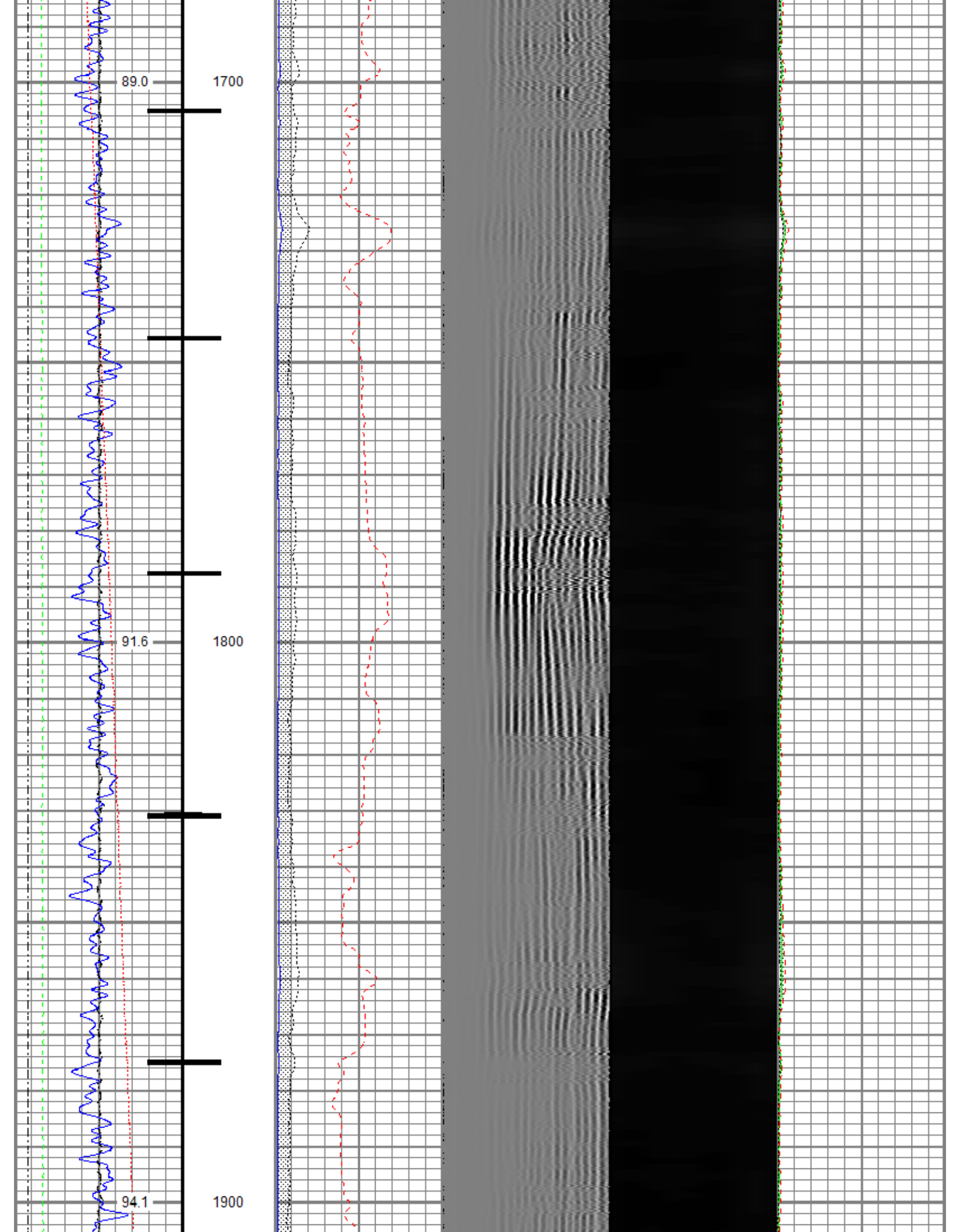


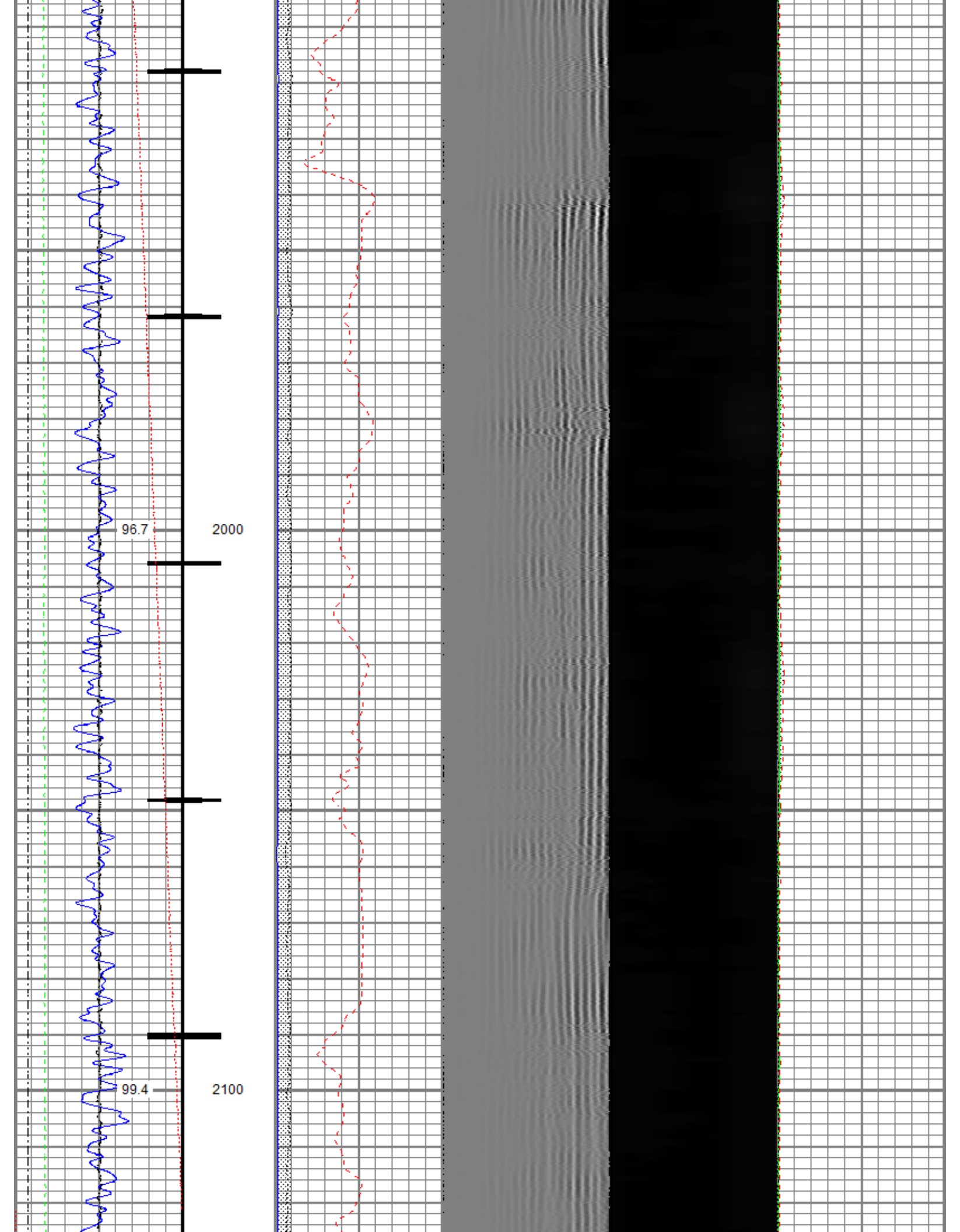


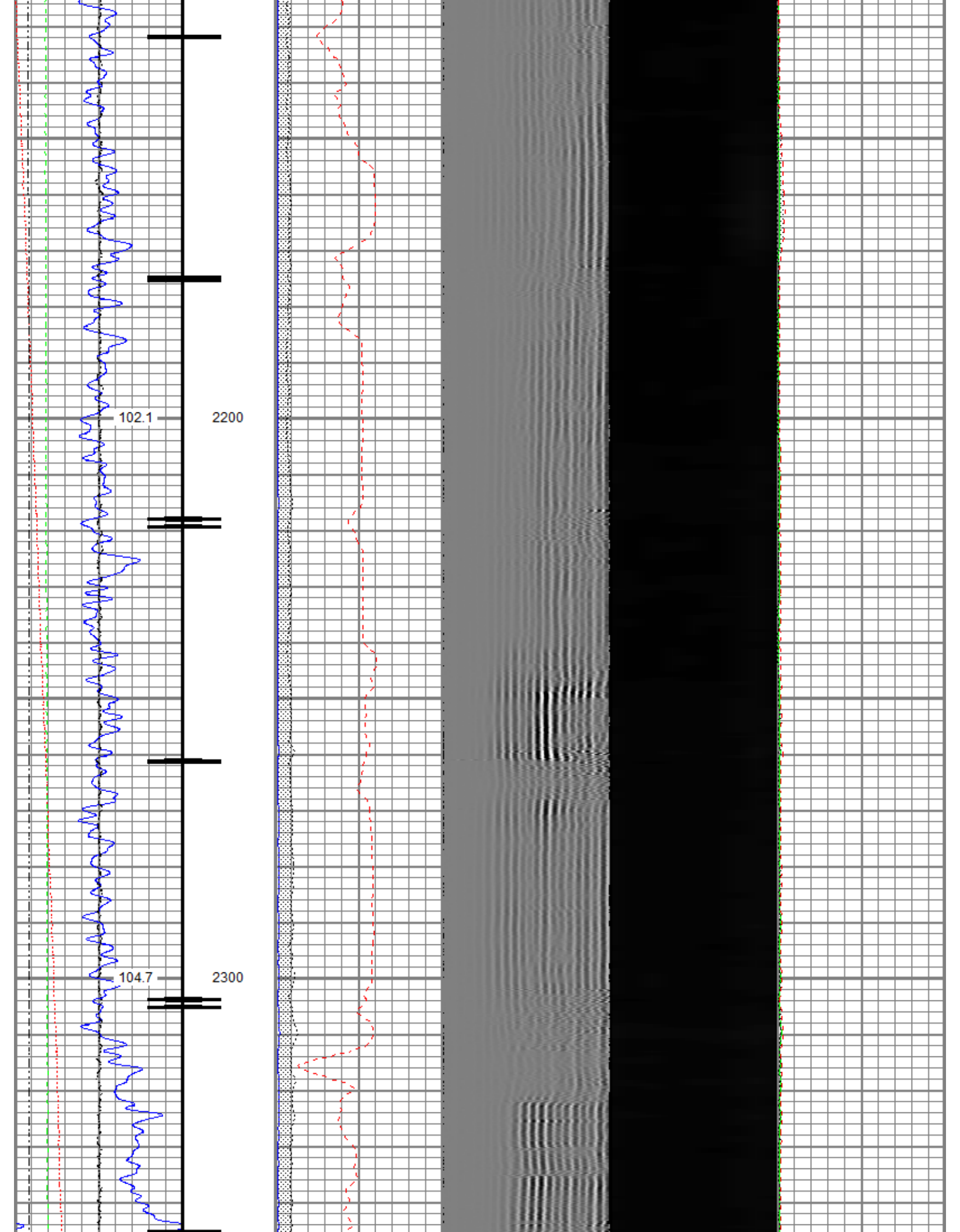


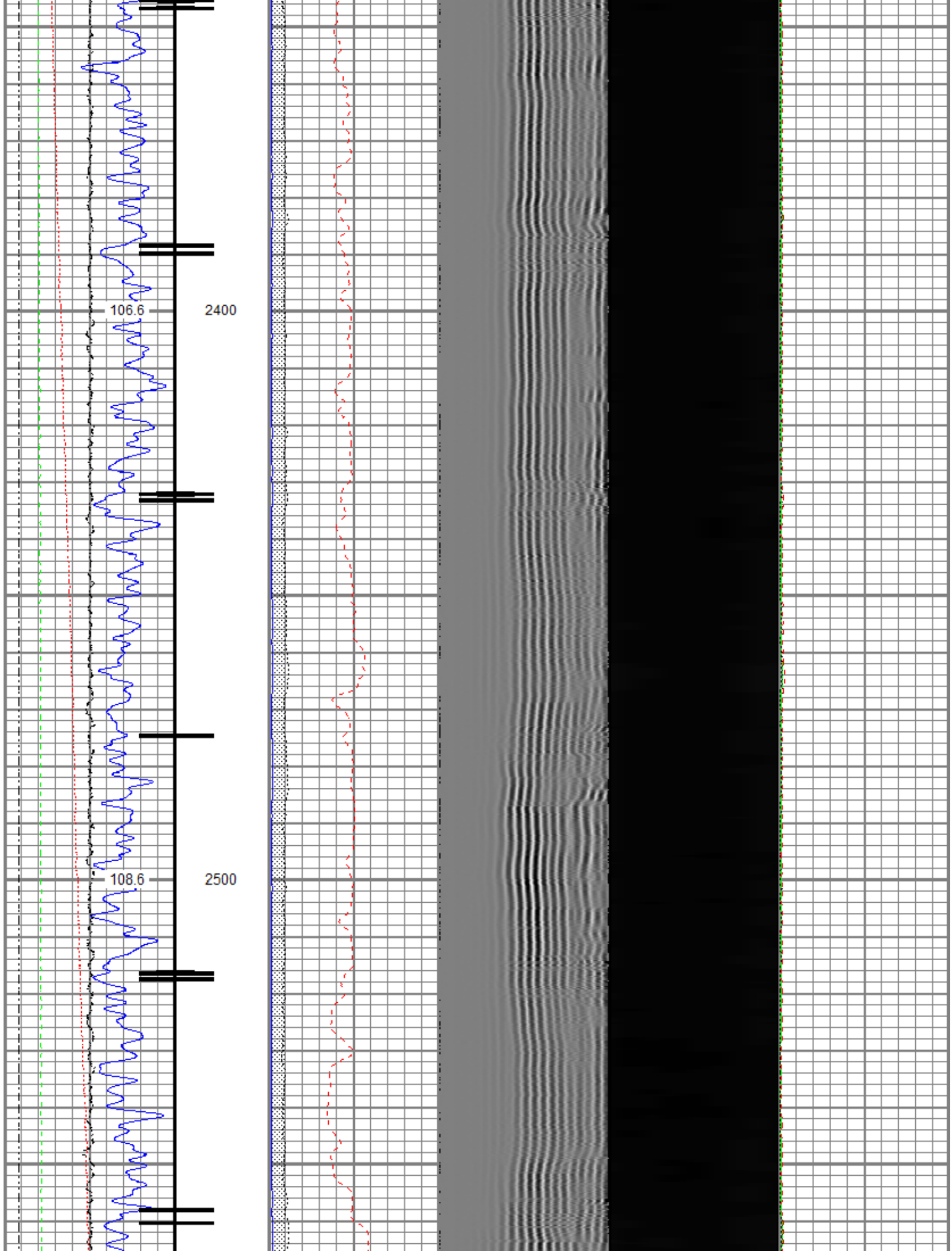


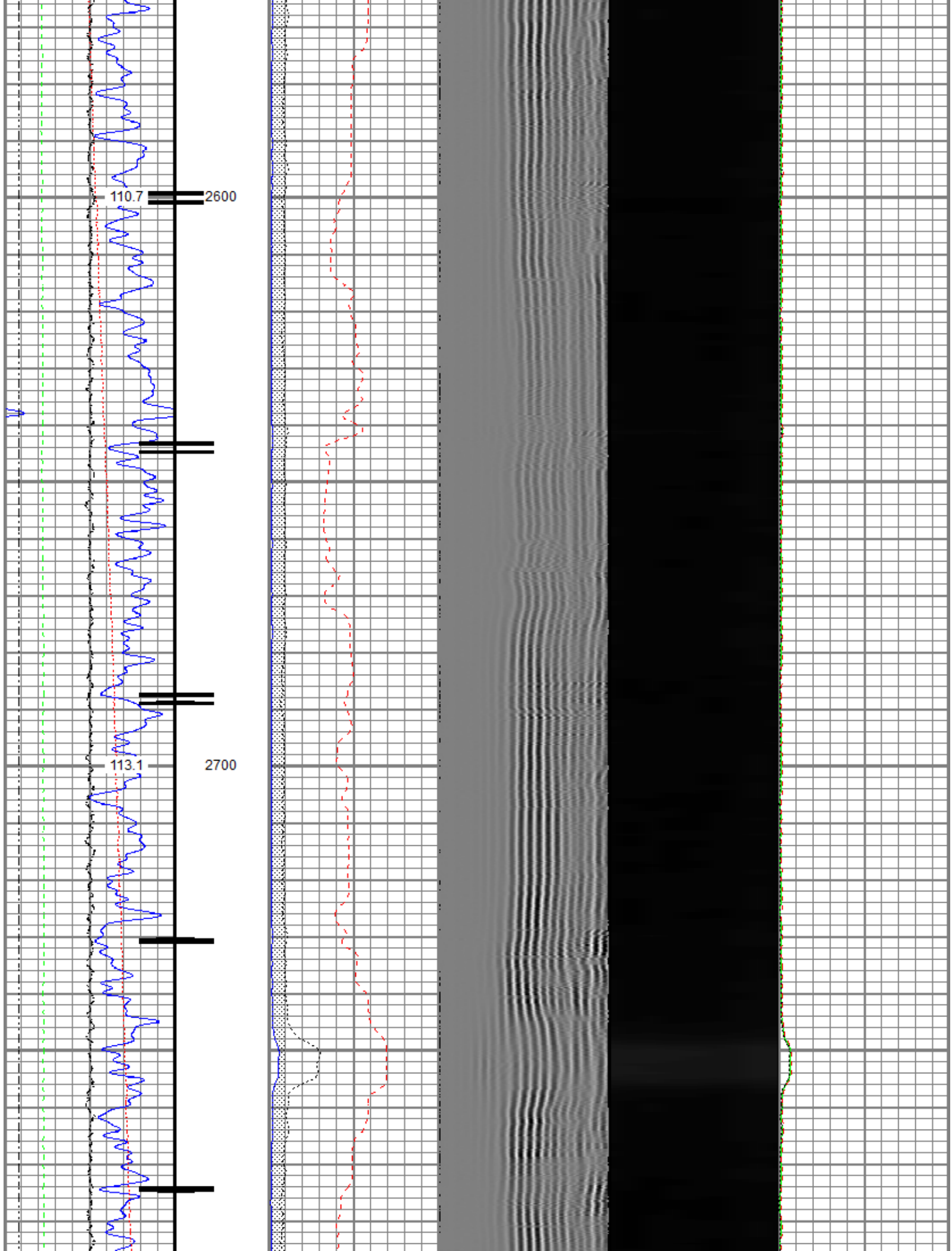


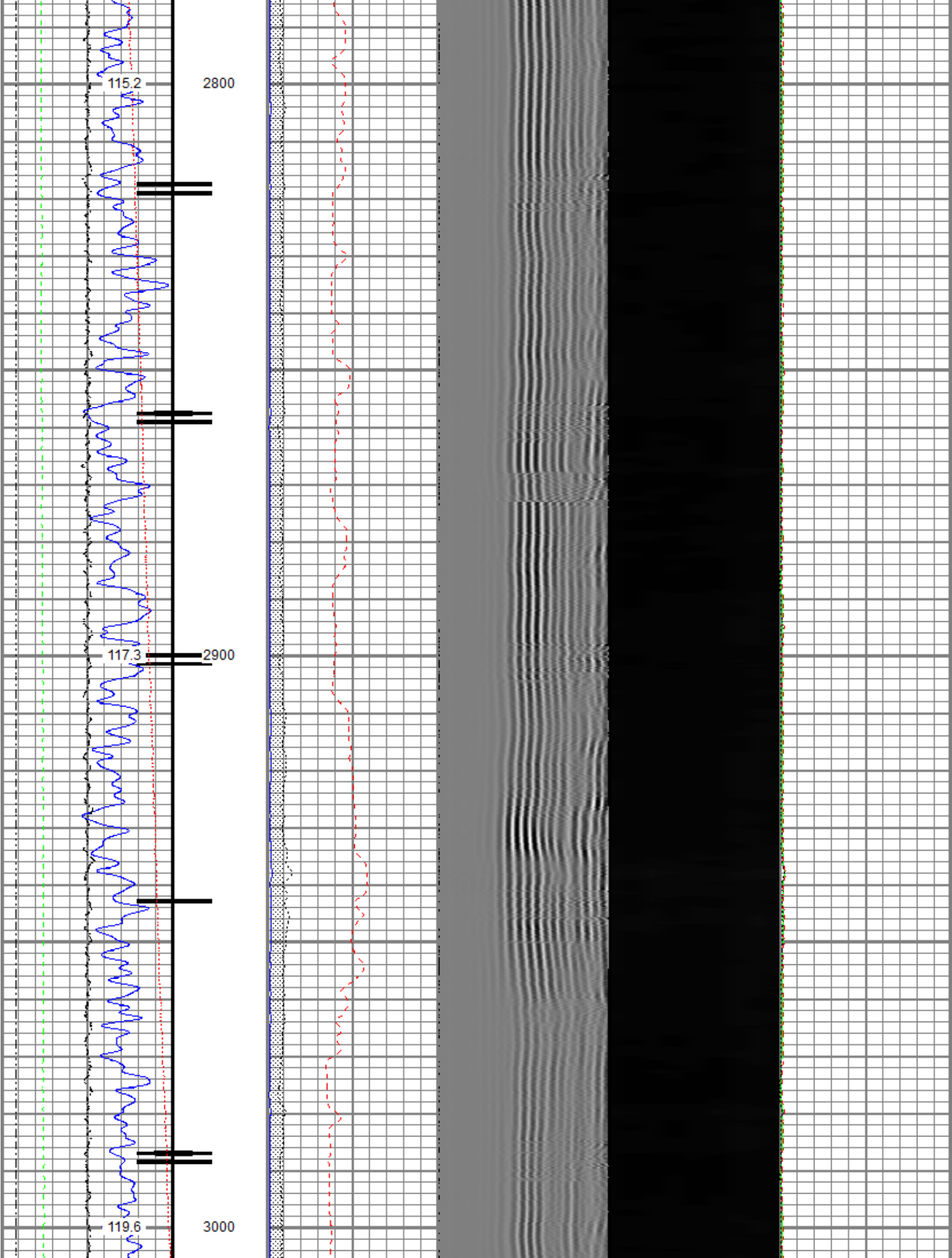


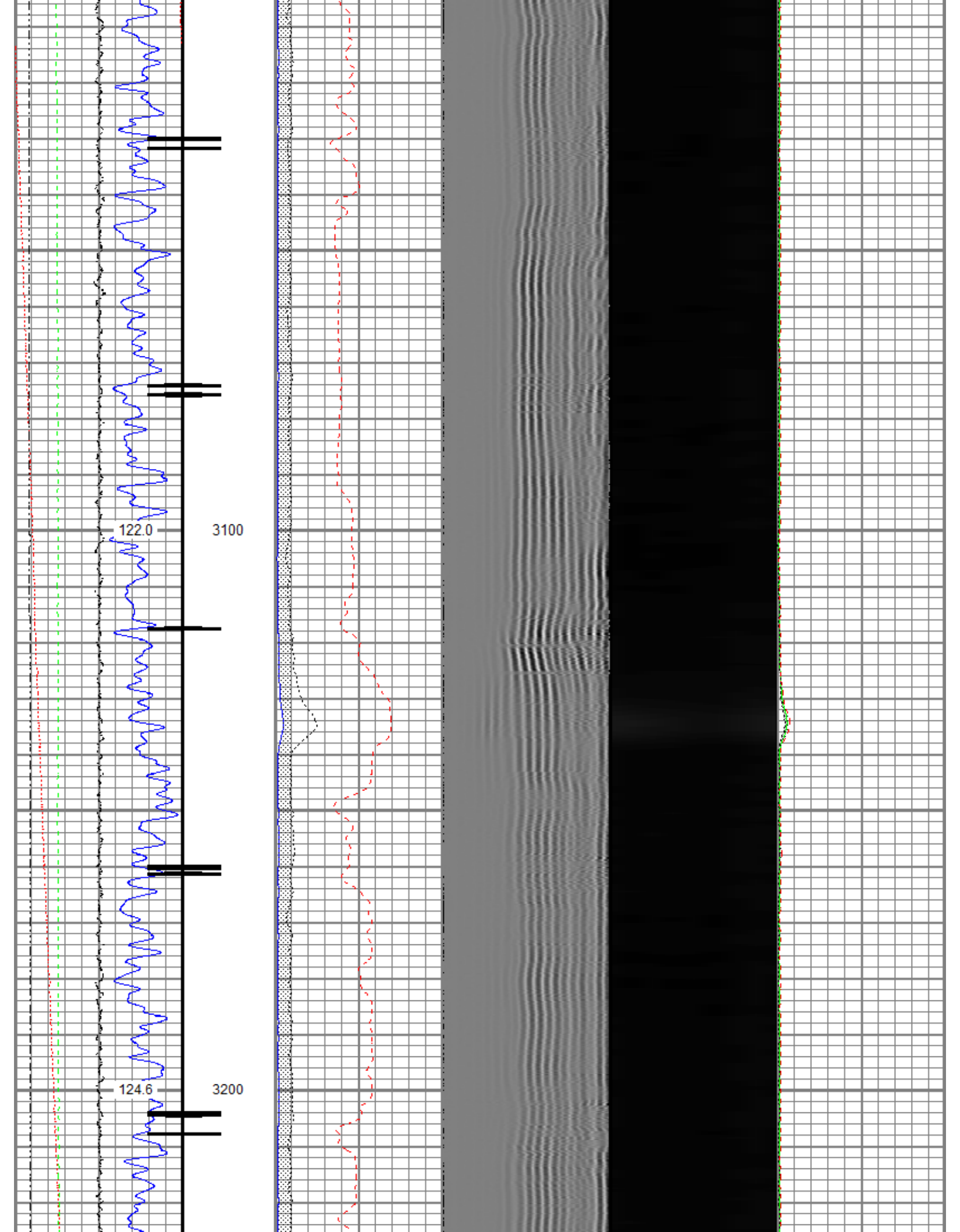


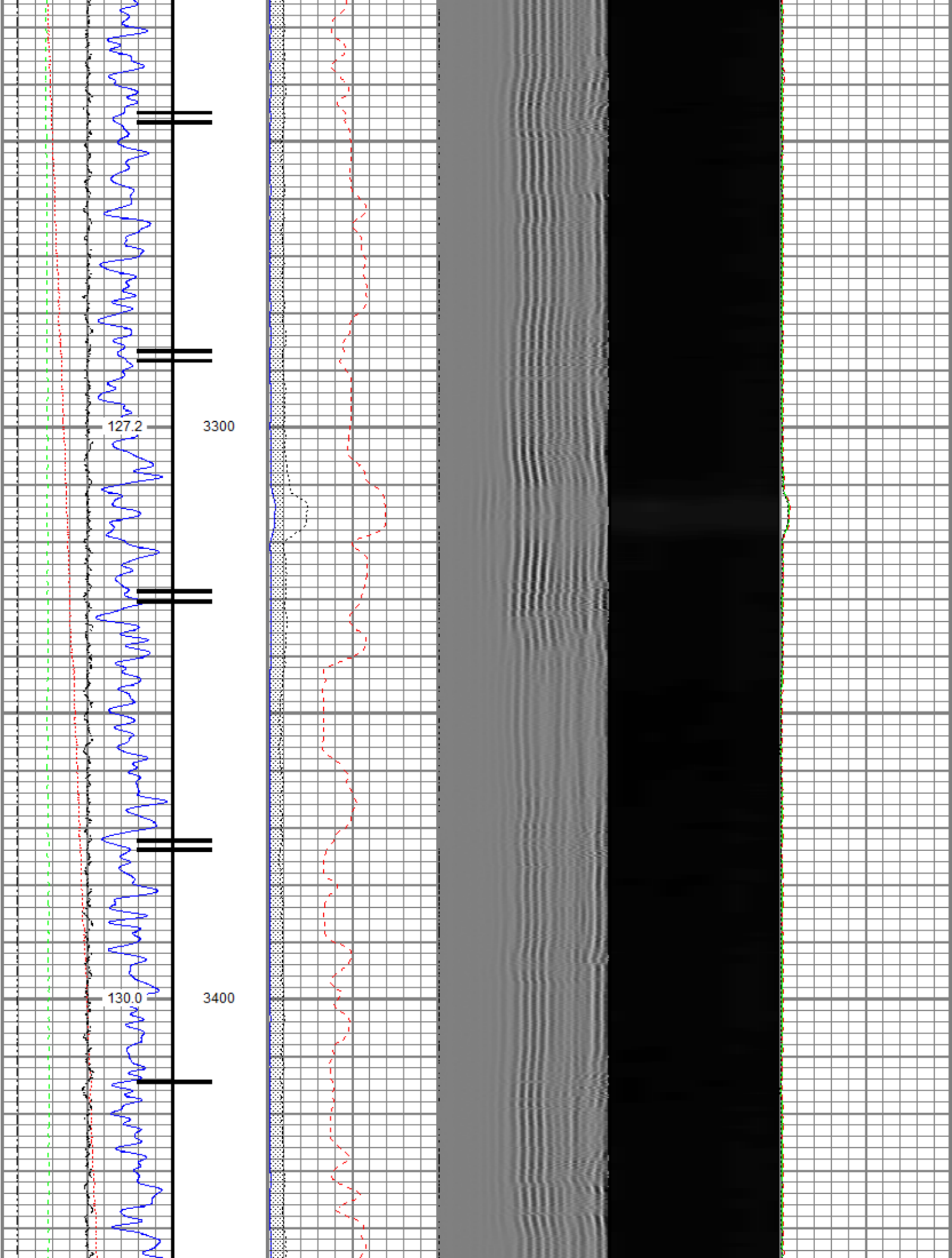


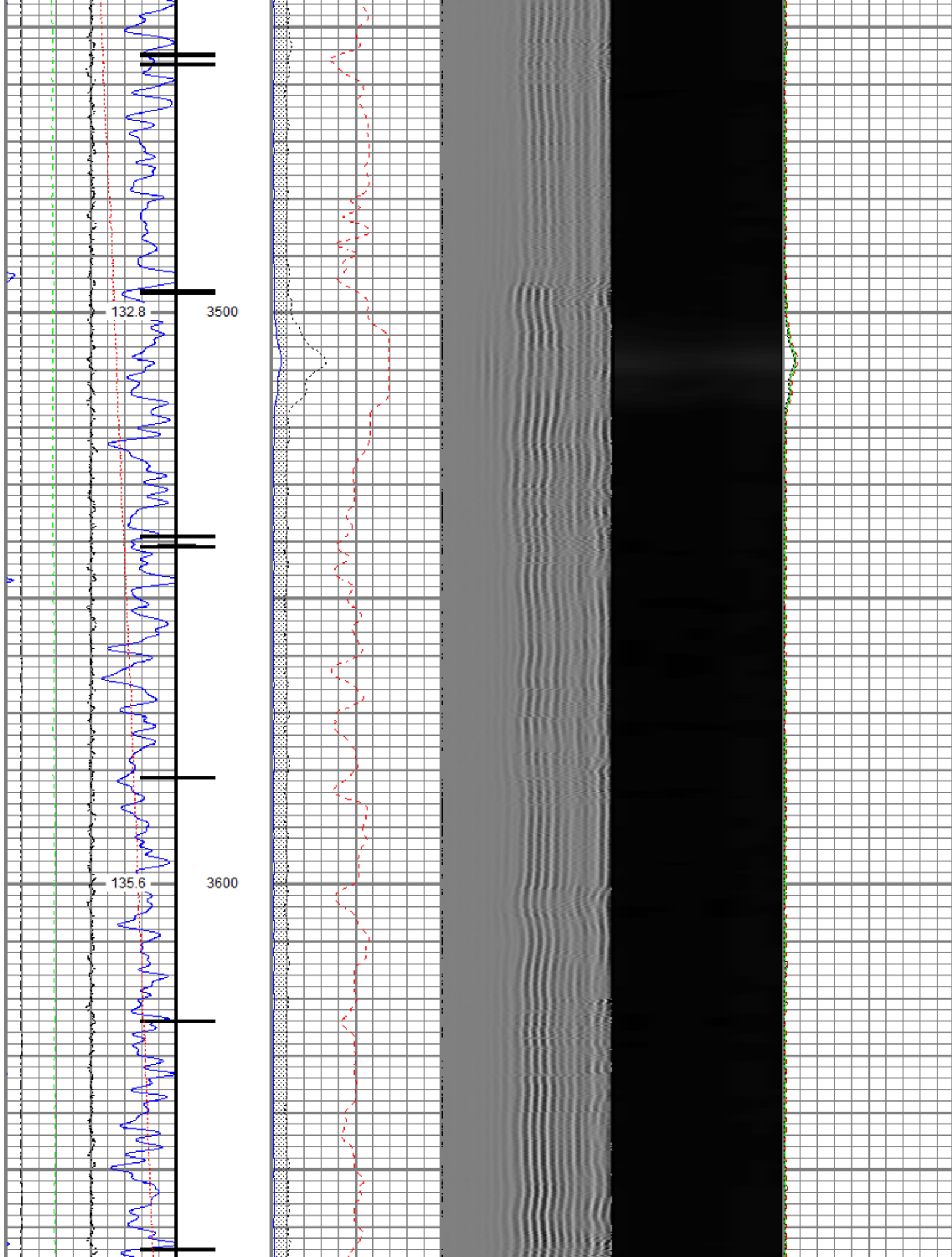


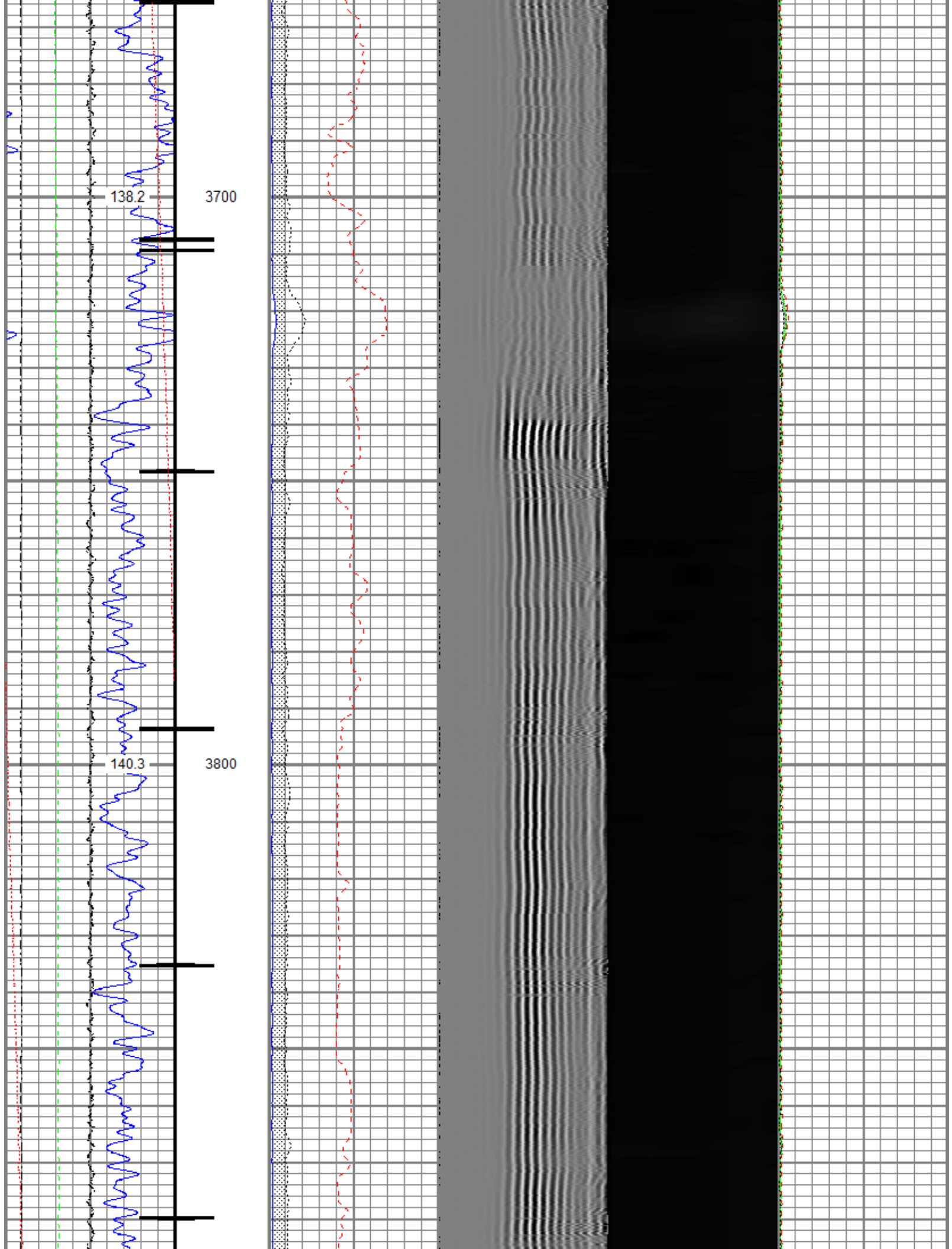


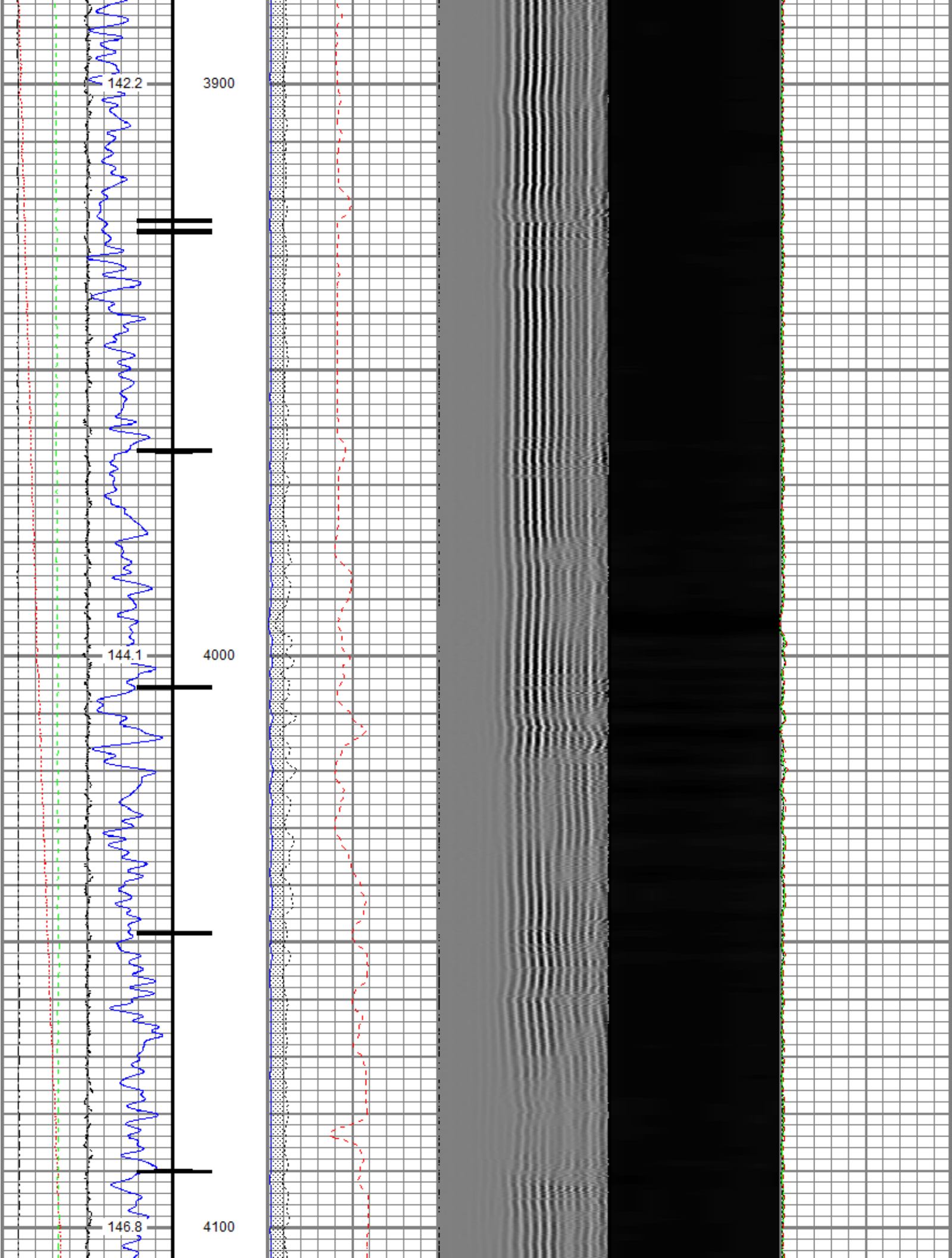


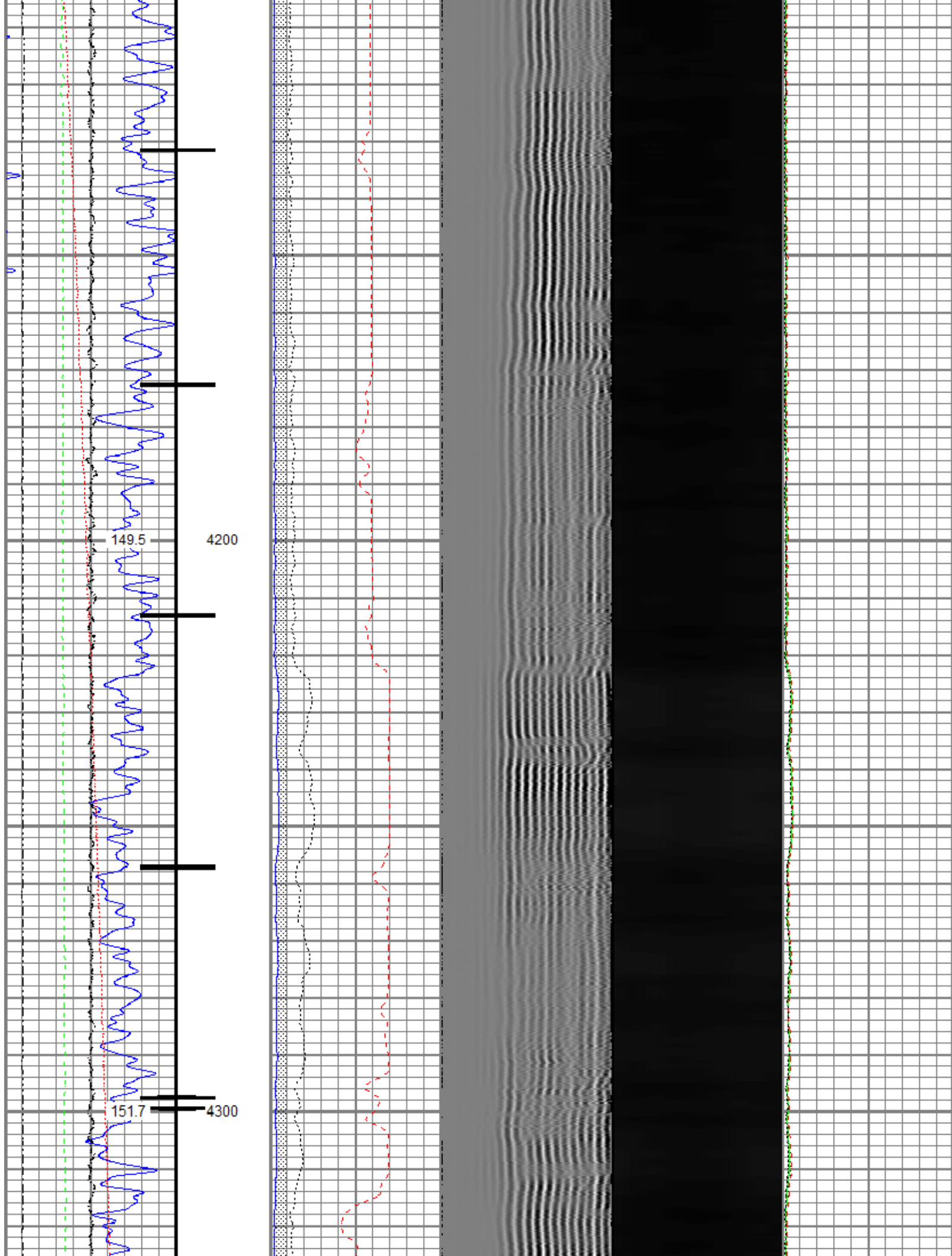


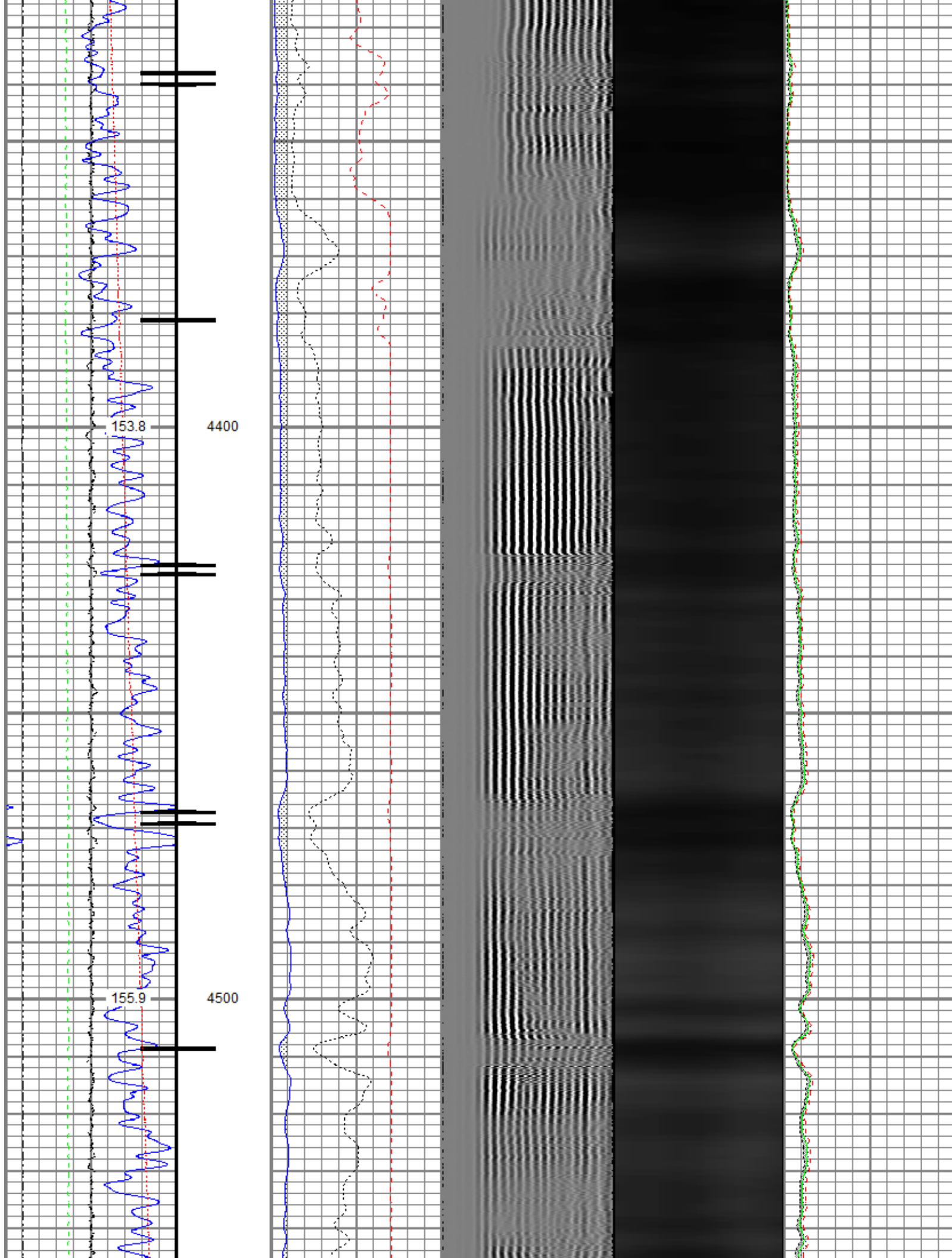


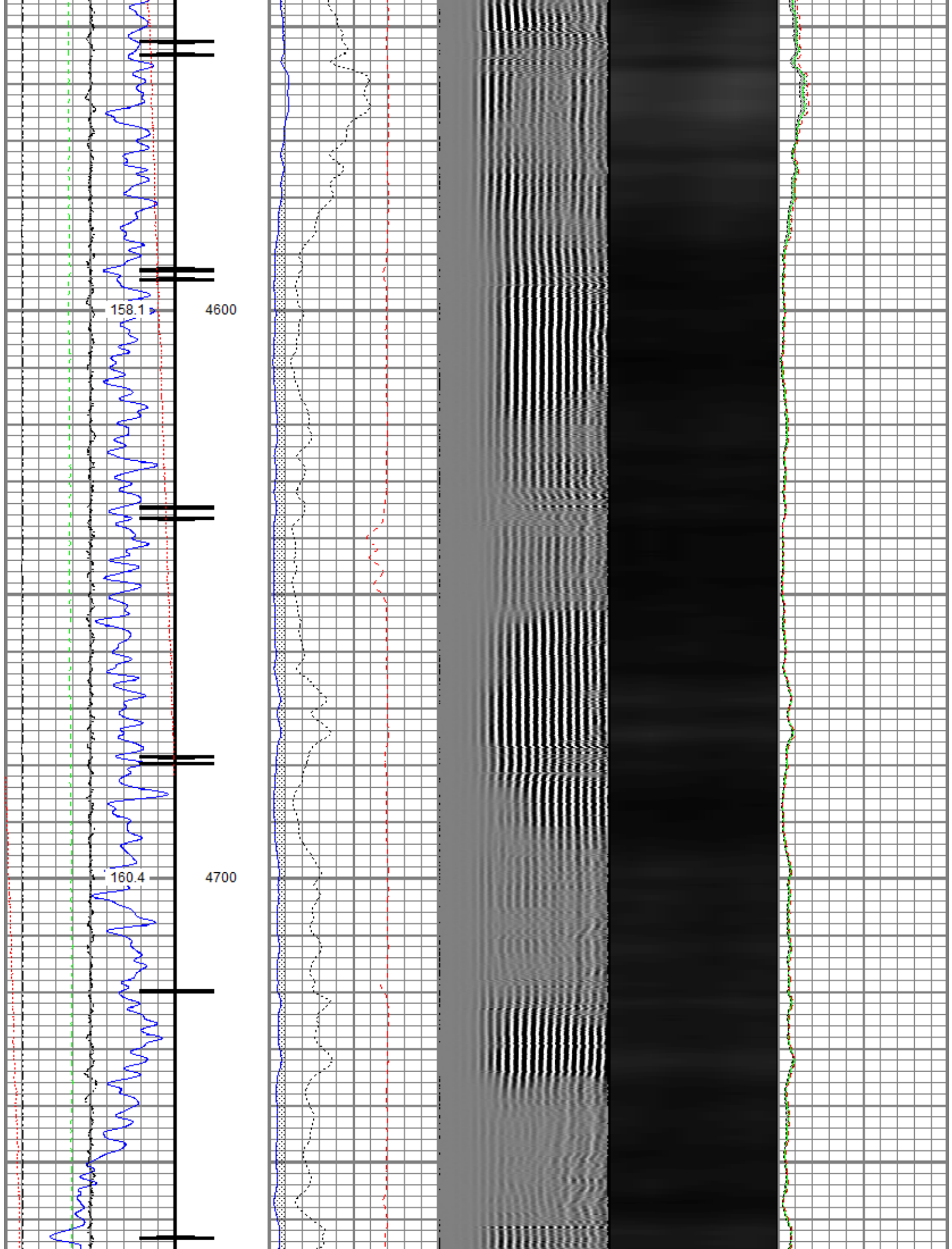


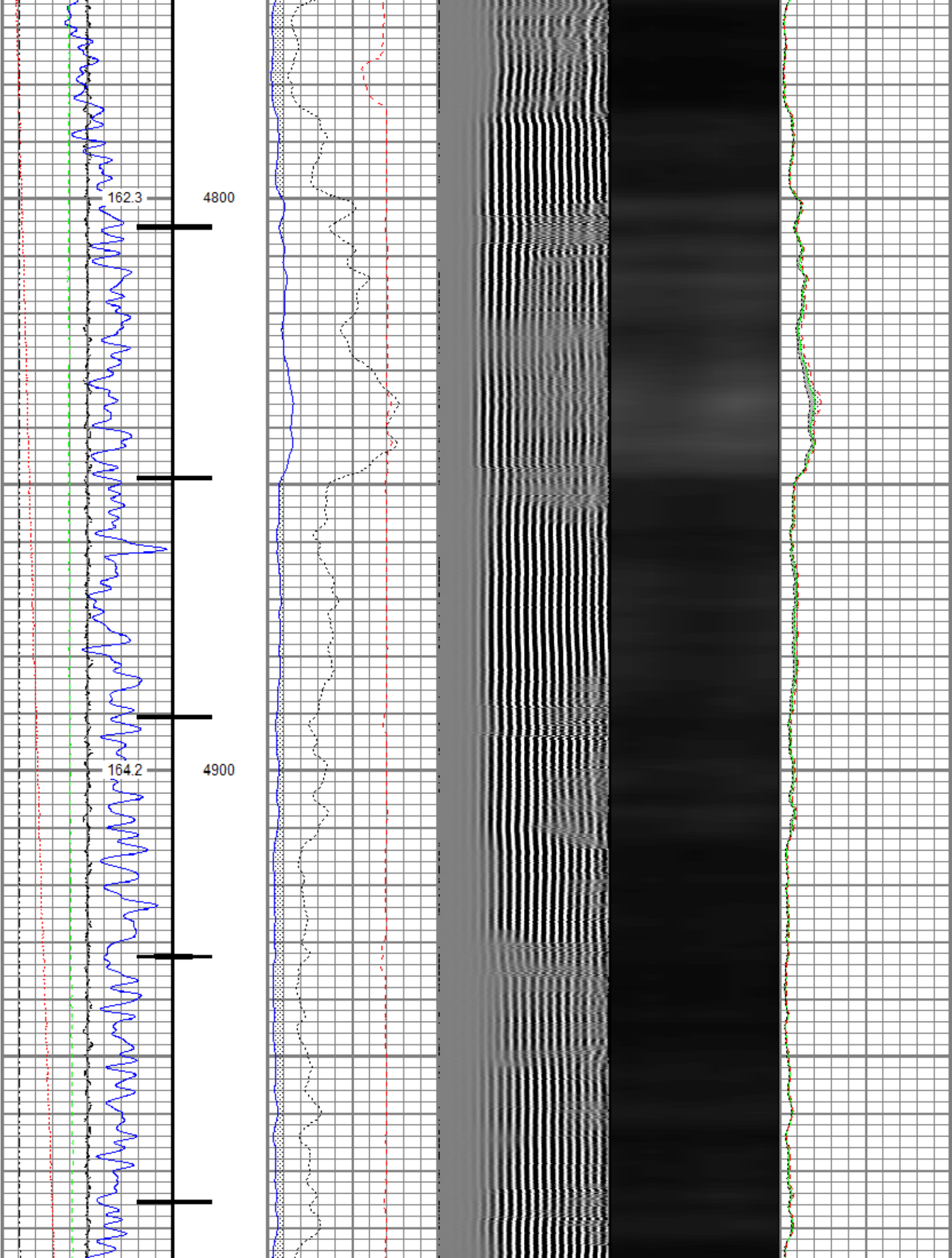


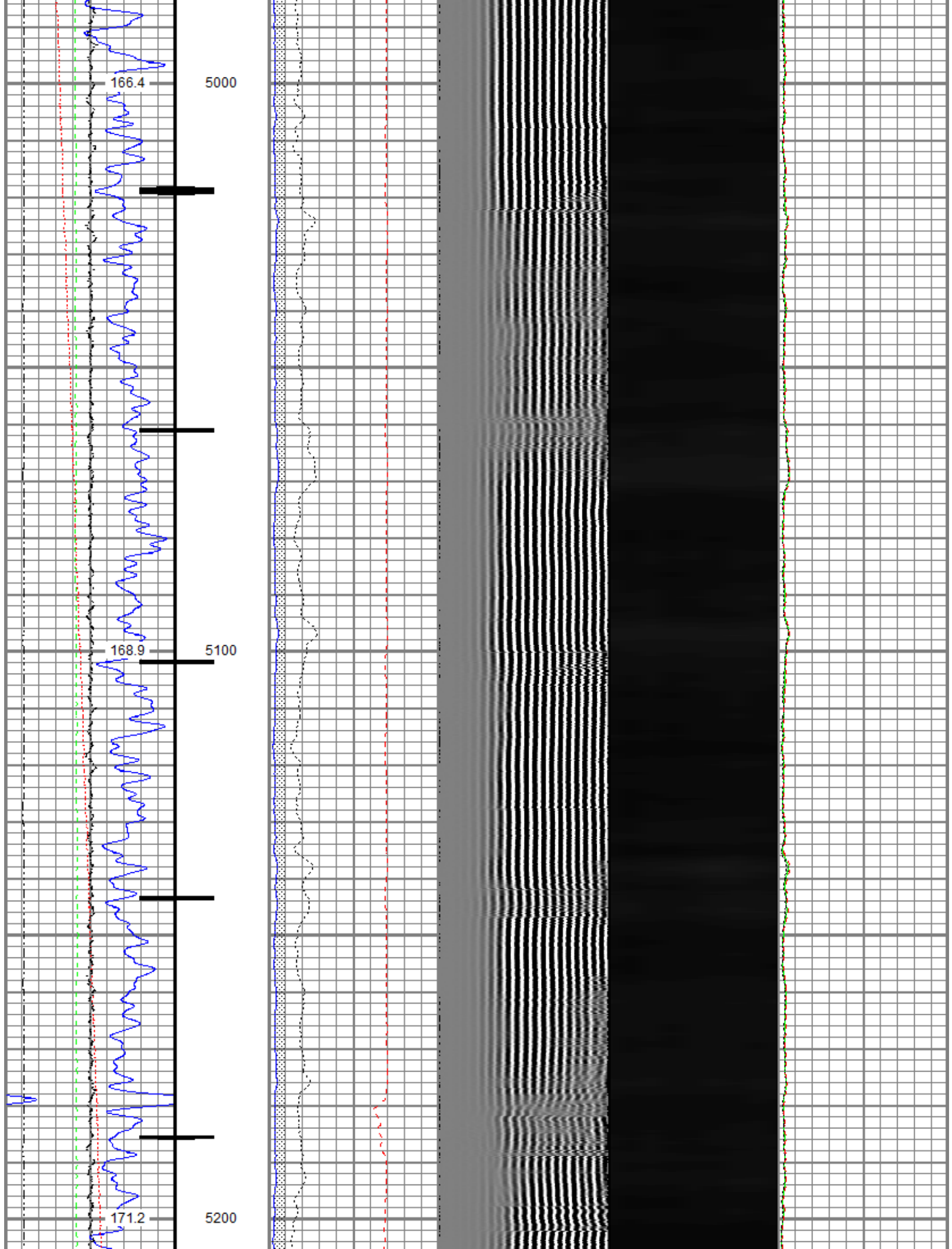


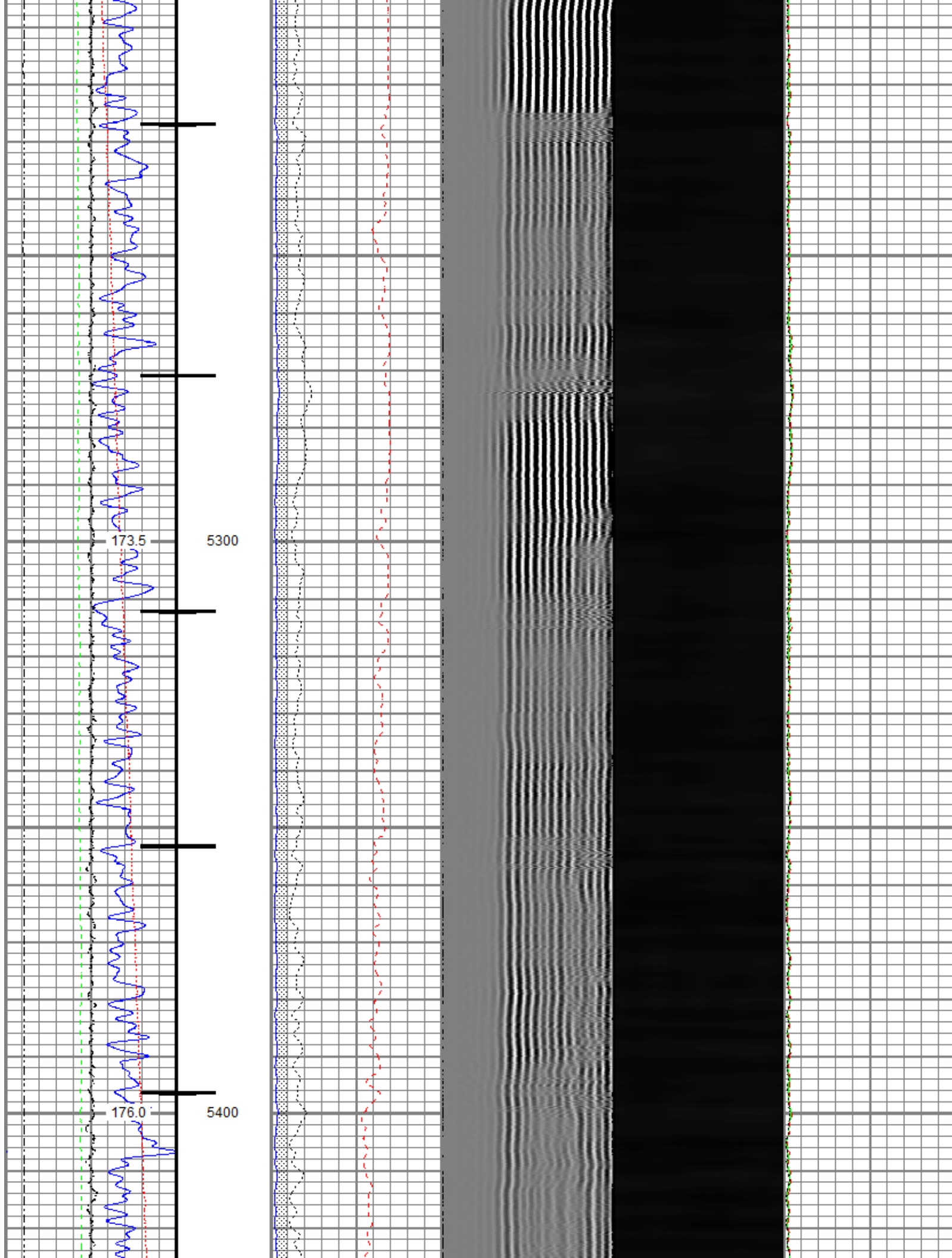


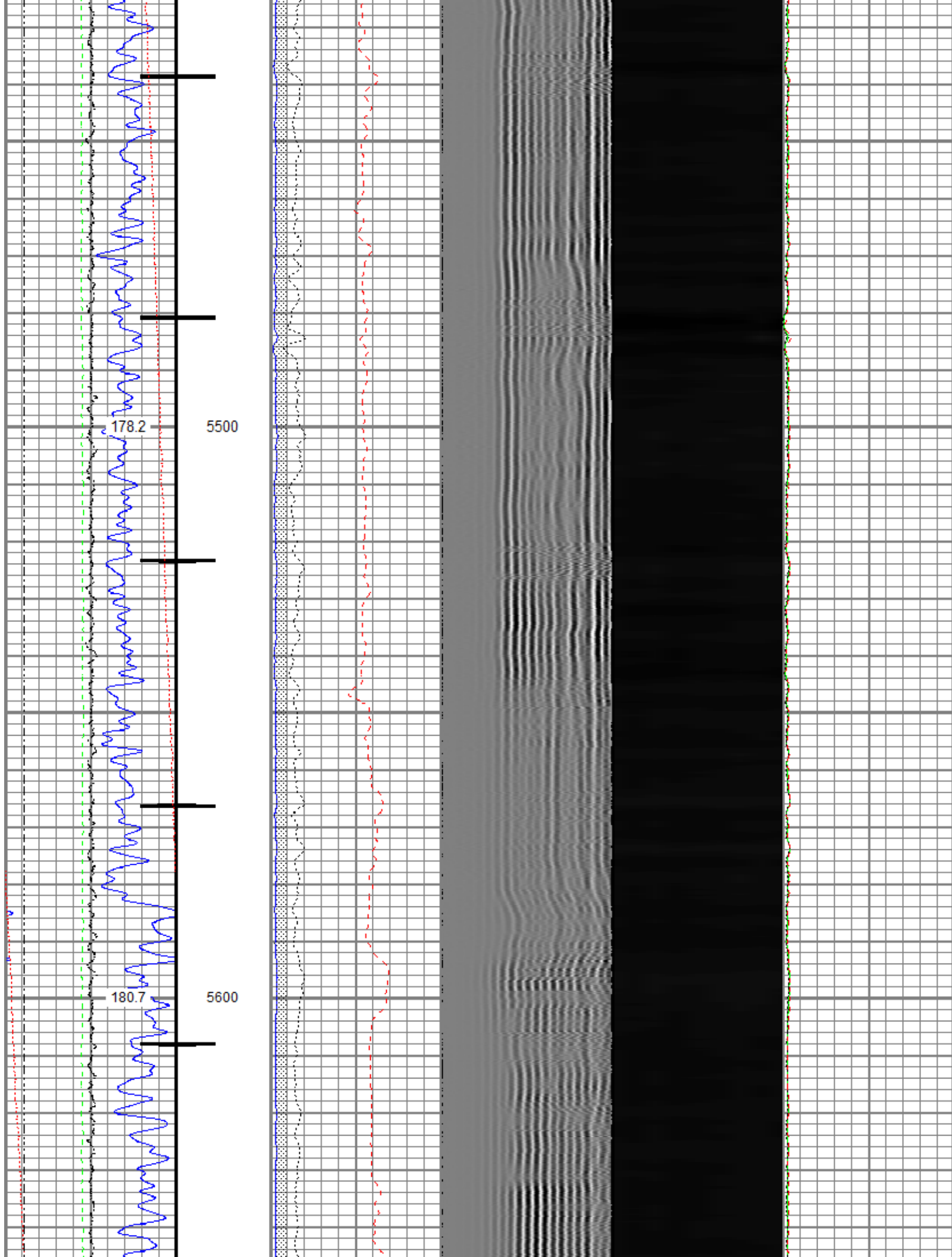


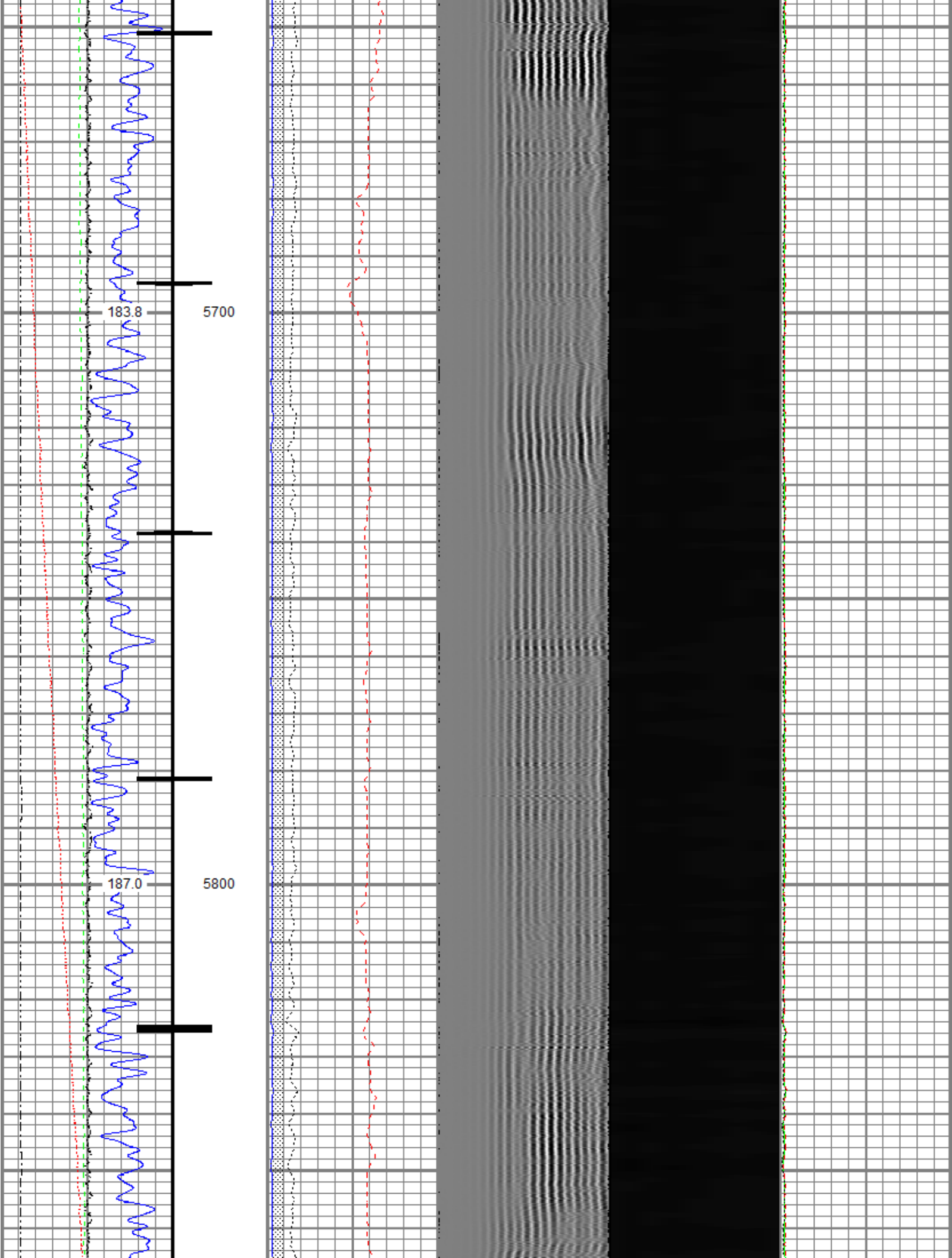


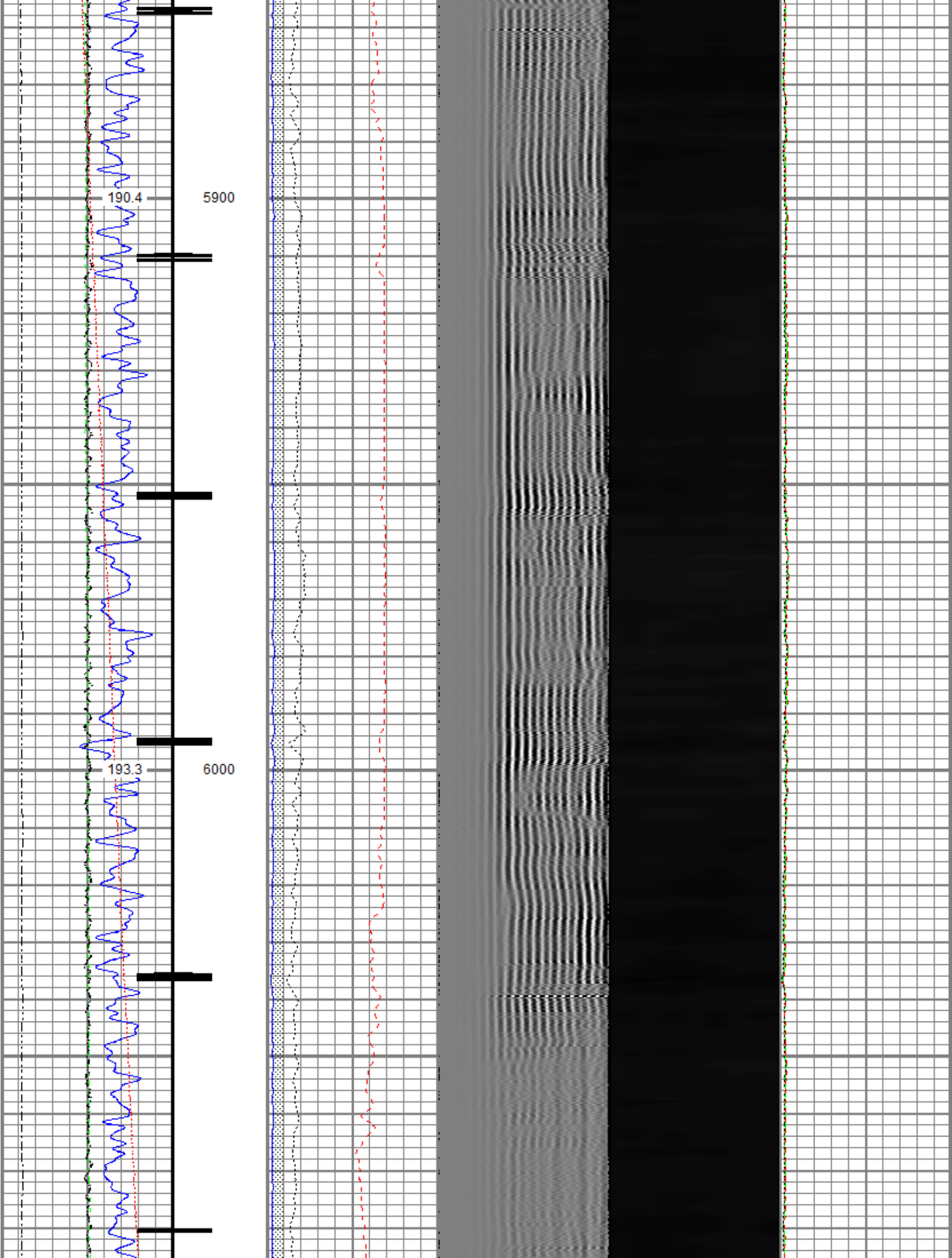


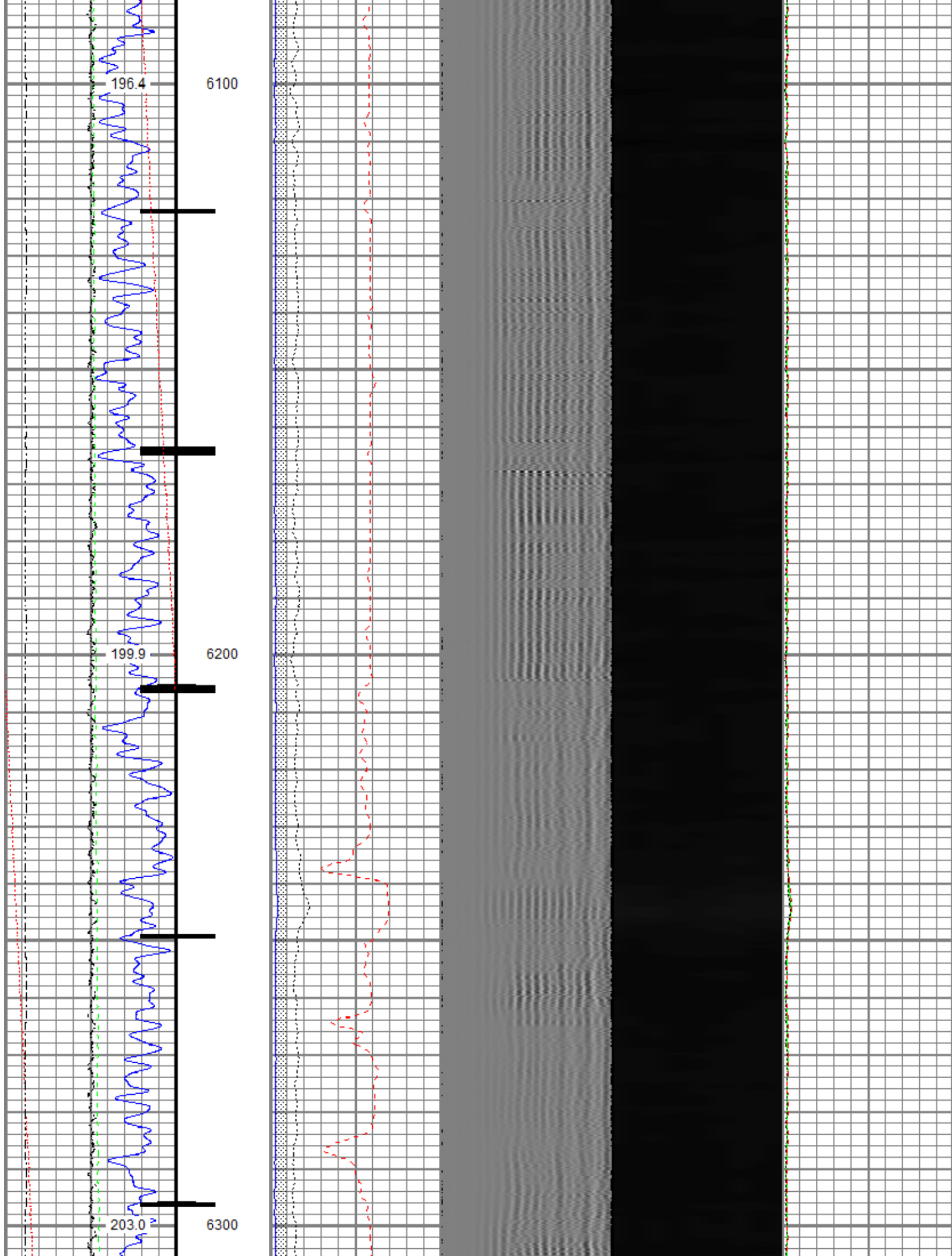


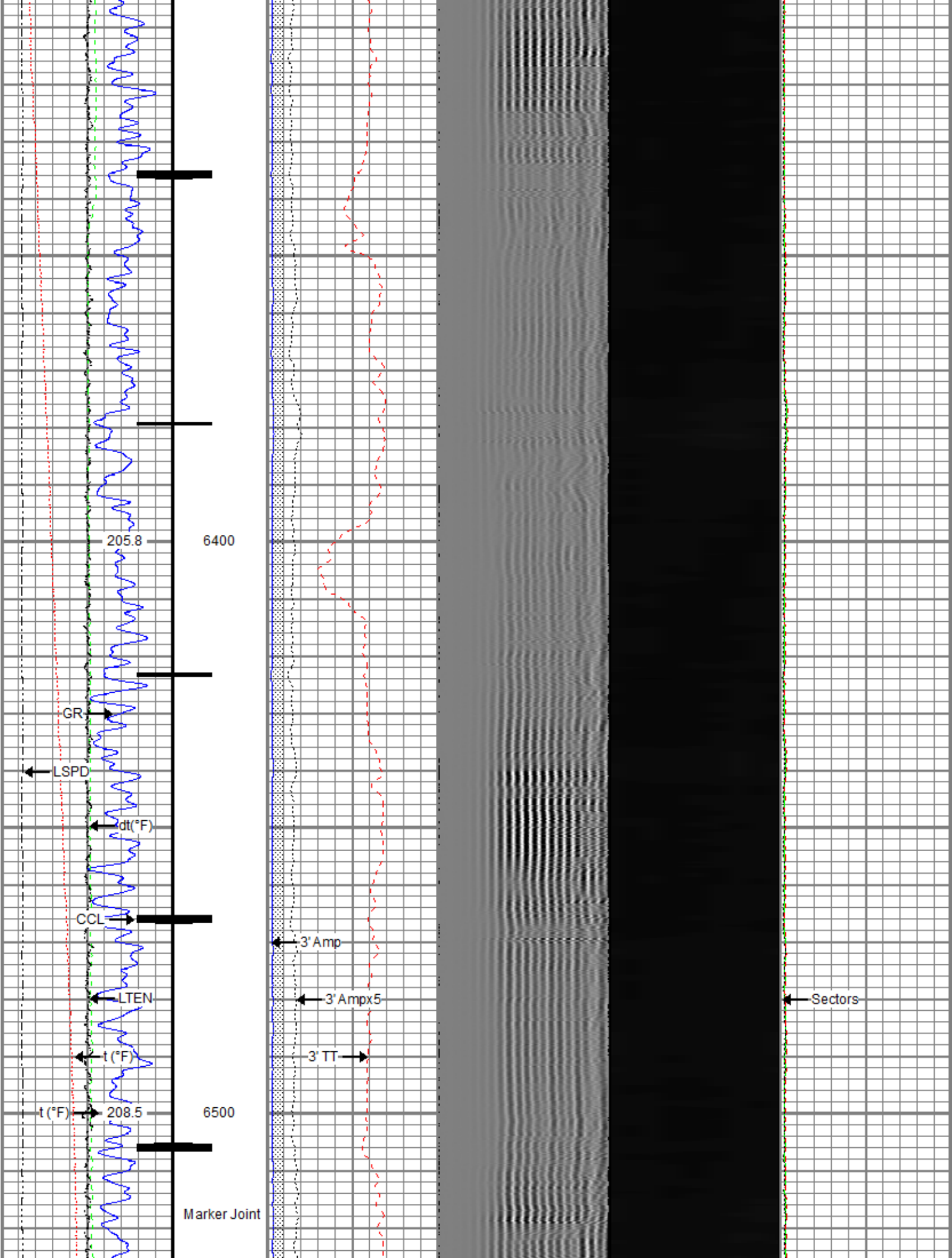


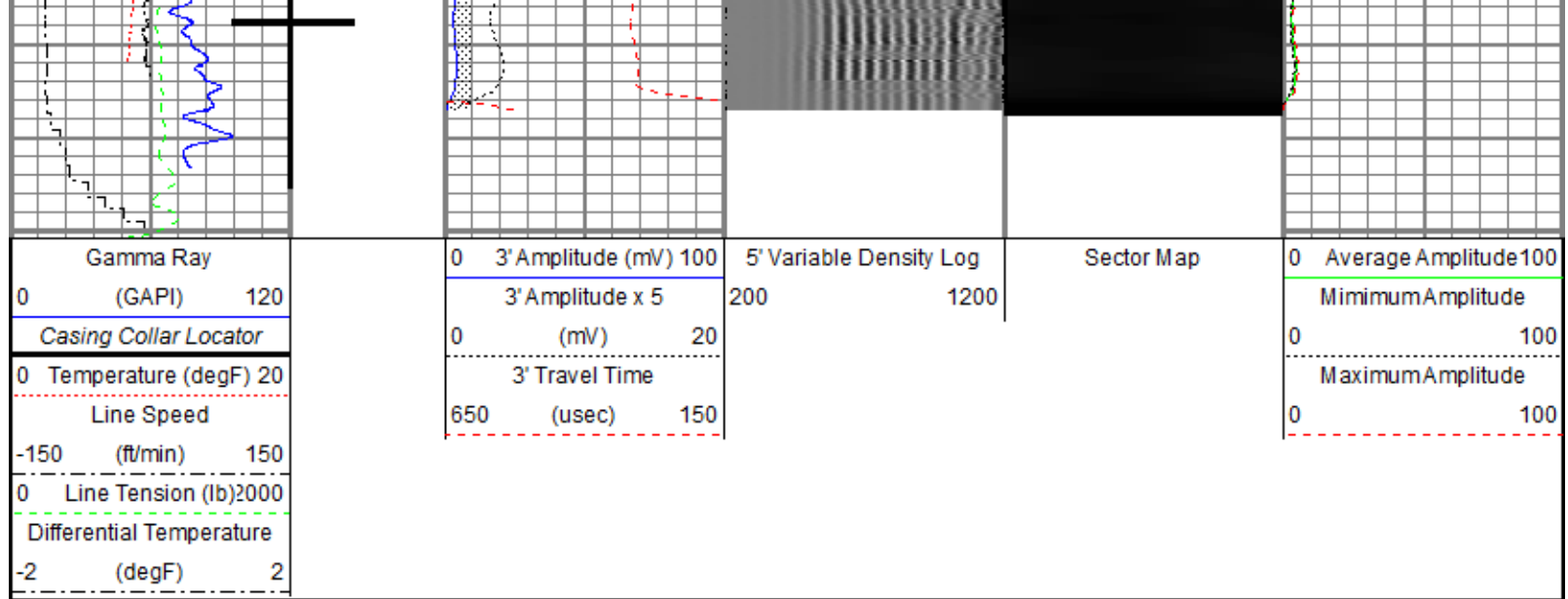








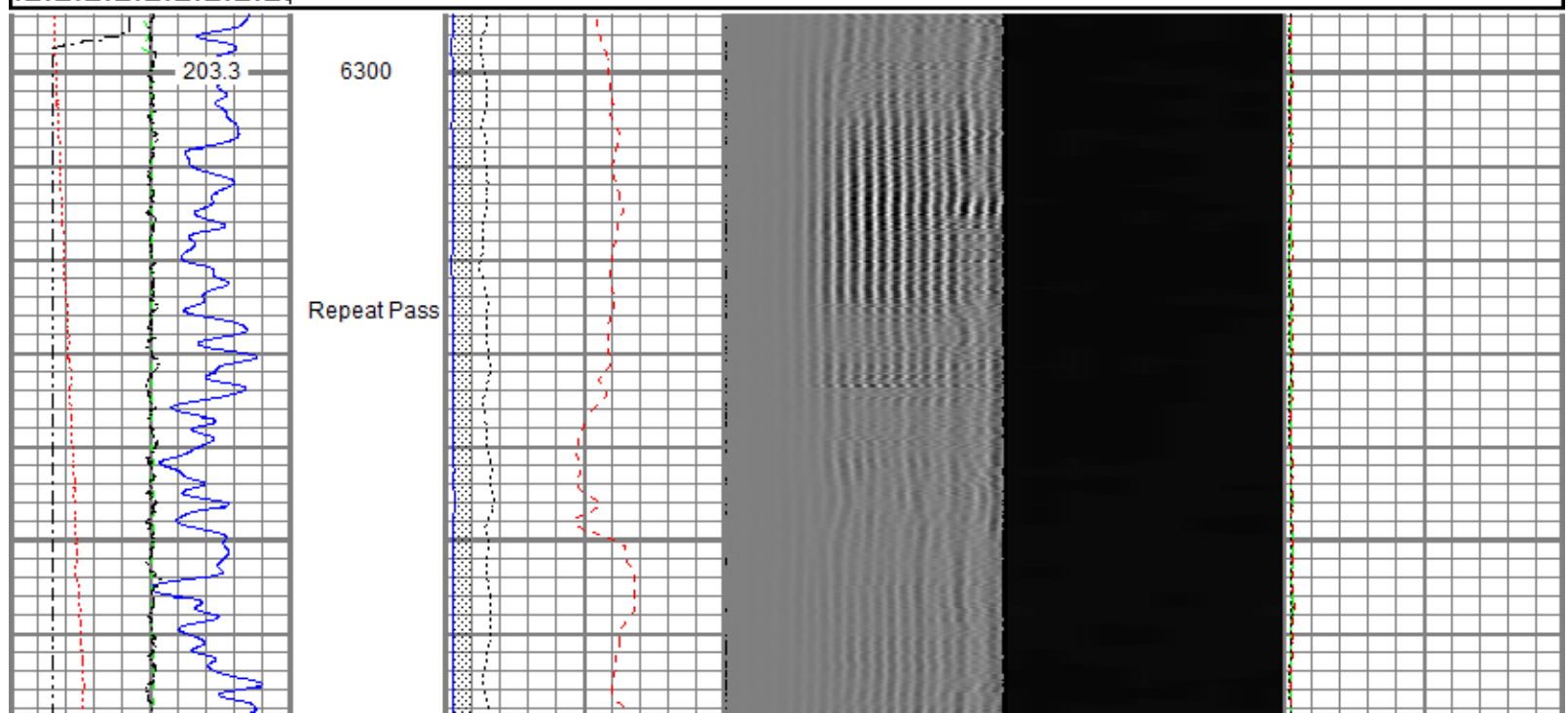
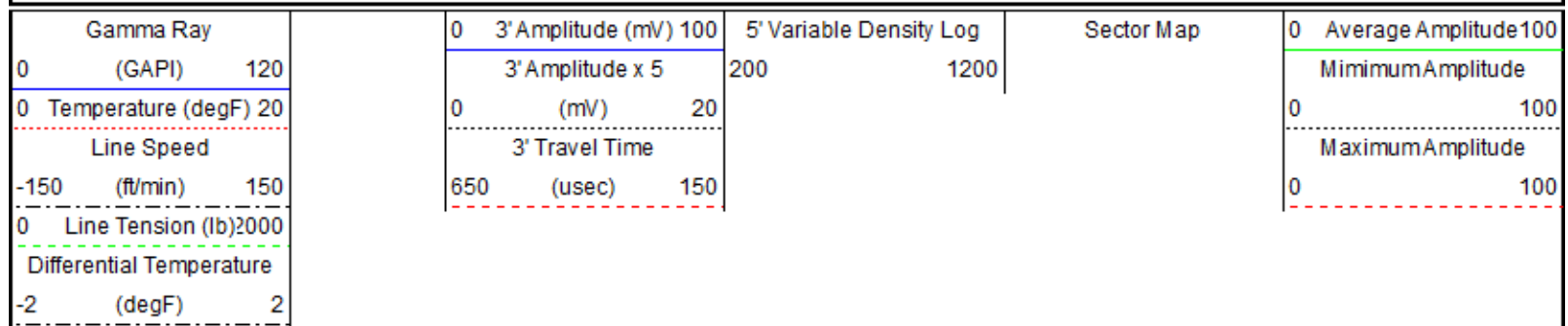


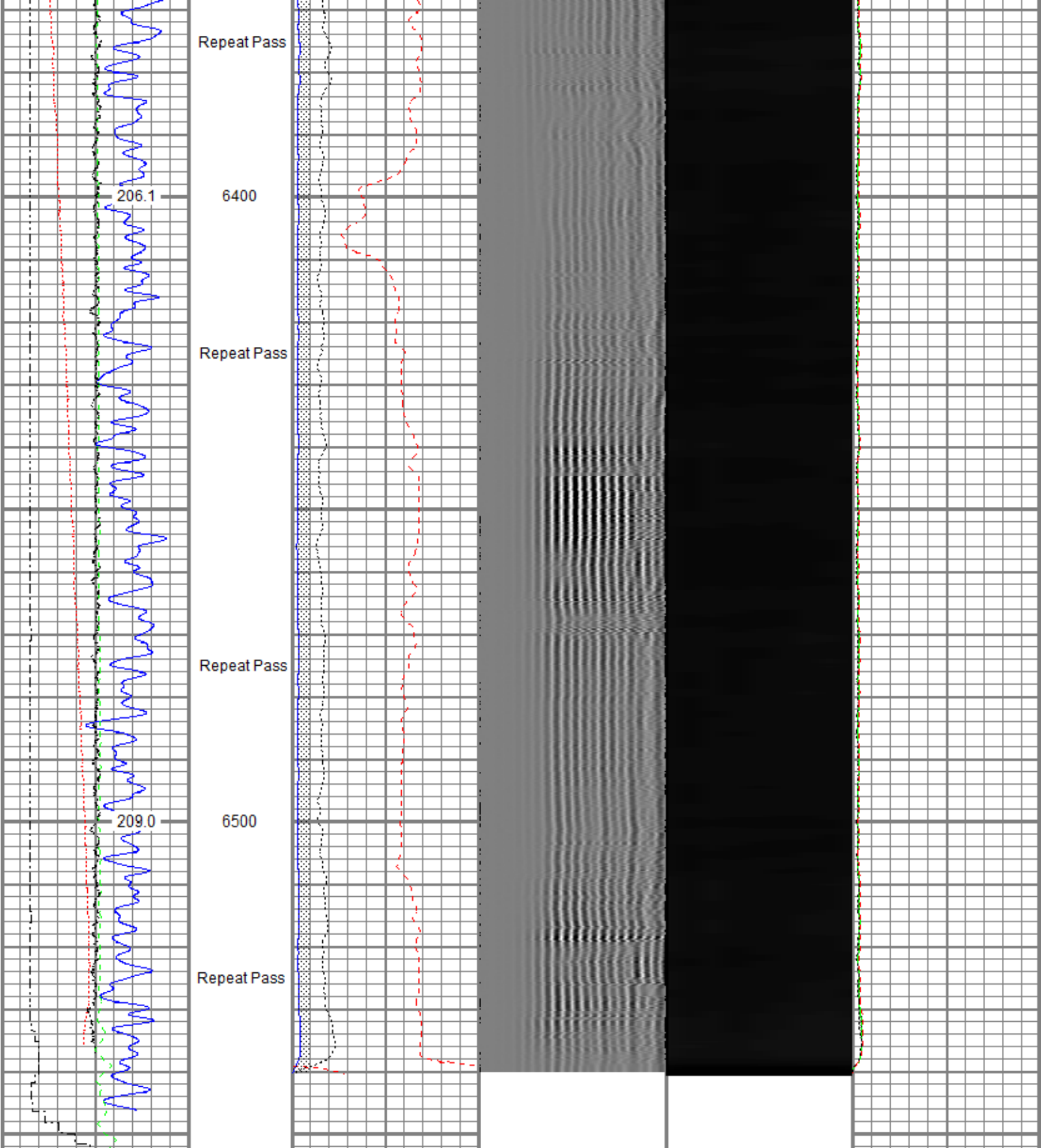


Repeat Pass

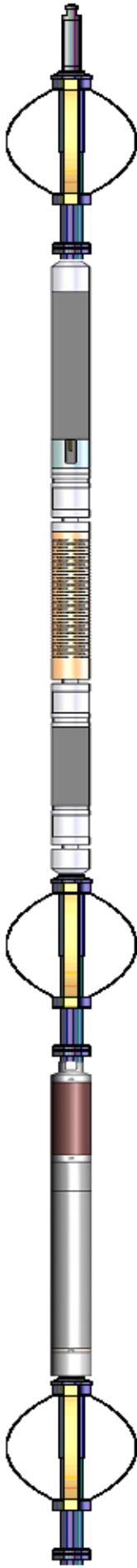
Recorded With 2800 PSI Surface Induced Pressure

Database File: 0512345092_anadarko_newby state 38n-4hz_rbl_03-18-18\0512345092_anadarko_newby state 38n-4hz_rbl_03-18-18.db
 Dataset Pathname: repeat
 Presentation Format: ros_radrii
 Dataset Creation: Sun Mar 18 09:29:15 2018
 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 1200				Minimum Amplitude	
0 Temperature (degF) 20		0 (mV) 20						0 100	
Line Speed		3' Travel Time						Maximum Amplitude	
-150 (ft/min) 150		650 (usec) 150						0 100	
0 Line Tension (lb) 2000									
Differential Temperature									
-2 (degF) 2									

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	17.04		Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head w/ 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 (FW1308-091) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
WVFS8	14.81					
WVFS7	14.81					
WVFS6	14.81					
WVFS5	14.81					
WVFS4	14.81					
WVFS3	14.81					
WVFS2	14.81					
WVFS1	14.81					
WVFCAL	14.81					
WVF3FT	14.81					
WVF5FT	13.81					
HEADVOLT	10.56					
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
CCL\$2	6.80					
CCL\$1	6.80					
GR	5.46		Probe GR-CCL-2750 6PB (FW1304-132) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00

Dataset: 0512345092_Anadarko_Newby State 38N-4HZ_RBL_03-18-18.db: field/well/run1/main
 Total length: 23.86 ft
 Total weight: 223.60 lb

Calibration Report

Database File C:\ProgramData\Warrior\Data\0512345092_Anadarko_Newby State 38N-4HZ_RBL_03-18-18\0512345092_Anadarko_Newby S
 Dataset Pathname repeat
 Dataset Creation Sun Mar 18 09:29:15 2018

Gamma Ray Calibration Report

Serial Number: FW1304-132
 Tool Model: 2750 6PB
 Performed: Tue Nov 28 11:17:11 2017

Calibrator Value: 637.0 GAPI

Background Reading: 109.1 cps
 Calibrator Reading: 1009.7 cps

Sensitivity: 0.7072 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1308-091
 Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 32.002 ft

Master Calibration, performed Sun Mar 18 06:58:09 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.568	0.800	71.921	126.051	0.280
CAL	0.590	0.604				
5'	0.006	0.509	0.800	71.921	141.583	-0.111
SUM						
S1	0.003	0.548	0.000	100.000	183.709	-0.603
S2	0.005	0.562	0.000	100.000	179.559	-0.912
S3	0.004	0.585	0.000	100.000	172.244	-0.765
S4	0.004	0.610	0.000	100.000	165.005	-0.715
S5	0.004	0.627	0.000	100.000	160.711	-0.700
S6	0.005	0.593	0.000	100.000	170.098	-0.858
S7	0.005	0.554	0.000	100.000	182.094	-0.889
S8	0.004	0.544	0.000	100.000	185.195	-0.762

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.590	0.604	1.000	0.000

Air Zero Calibration, performed Sun Mar 18 06:57:46 2018:

	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	

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: FW1308-091
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:50:54 2017

	Reference	Reading
Low Reference:	100.00 degF	104.72 degF
High Reference:	350.00 degF	392.24 degF
Gain:	0.87	
Offset:	8.94	
Delta Spacing	1	



Company Kerr-McGee Oil & Gas Onshore, L.P.
Well Newby State 38N-4HZ
Field Wattenberg
County Weld
State Colorado