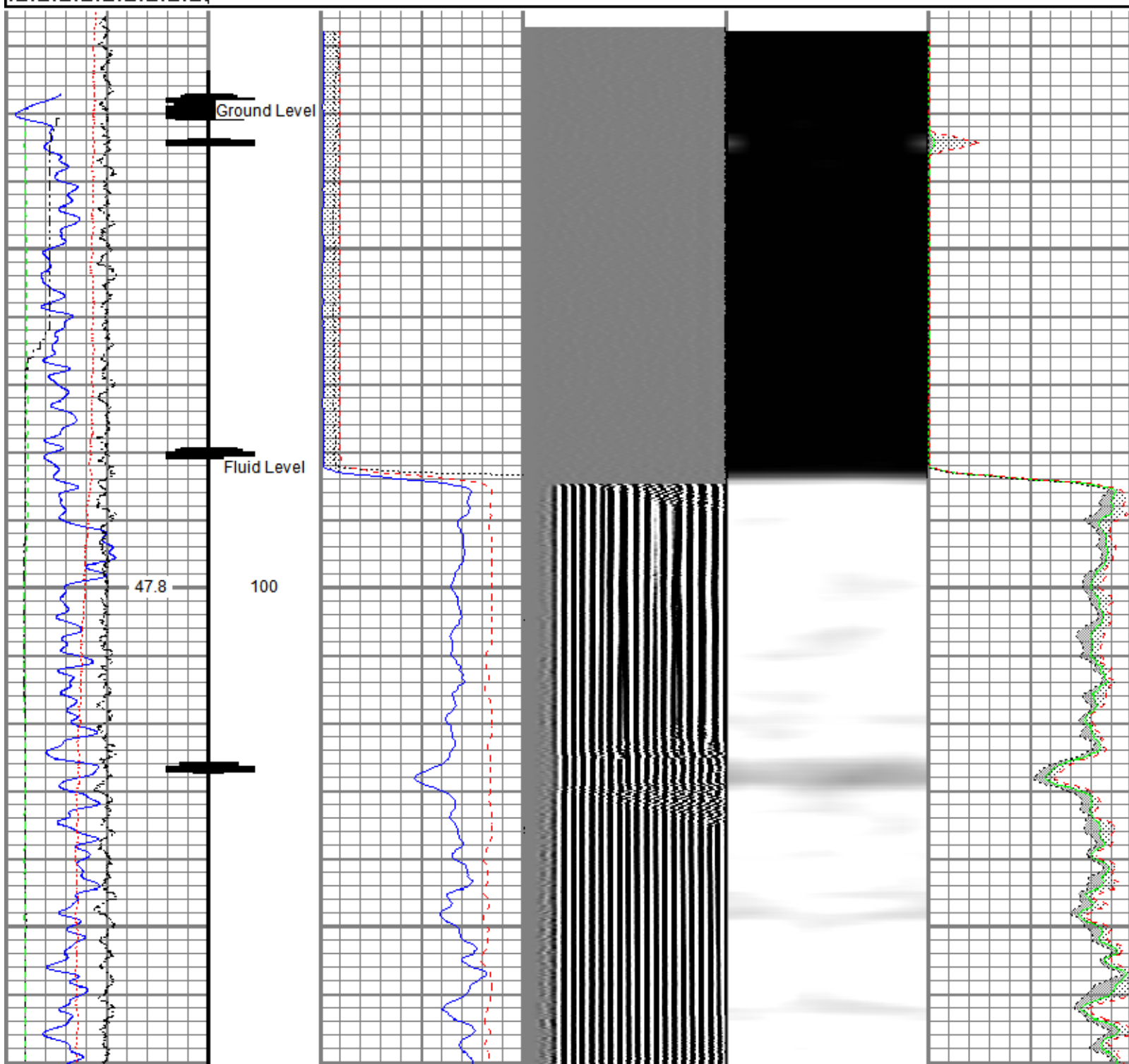


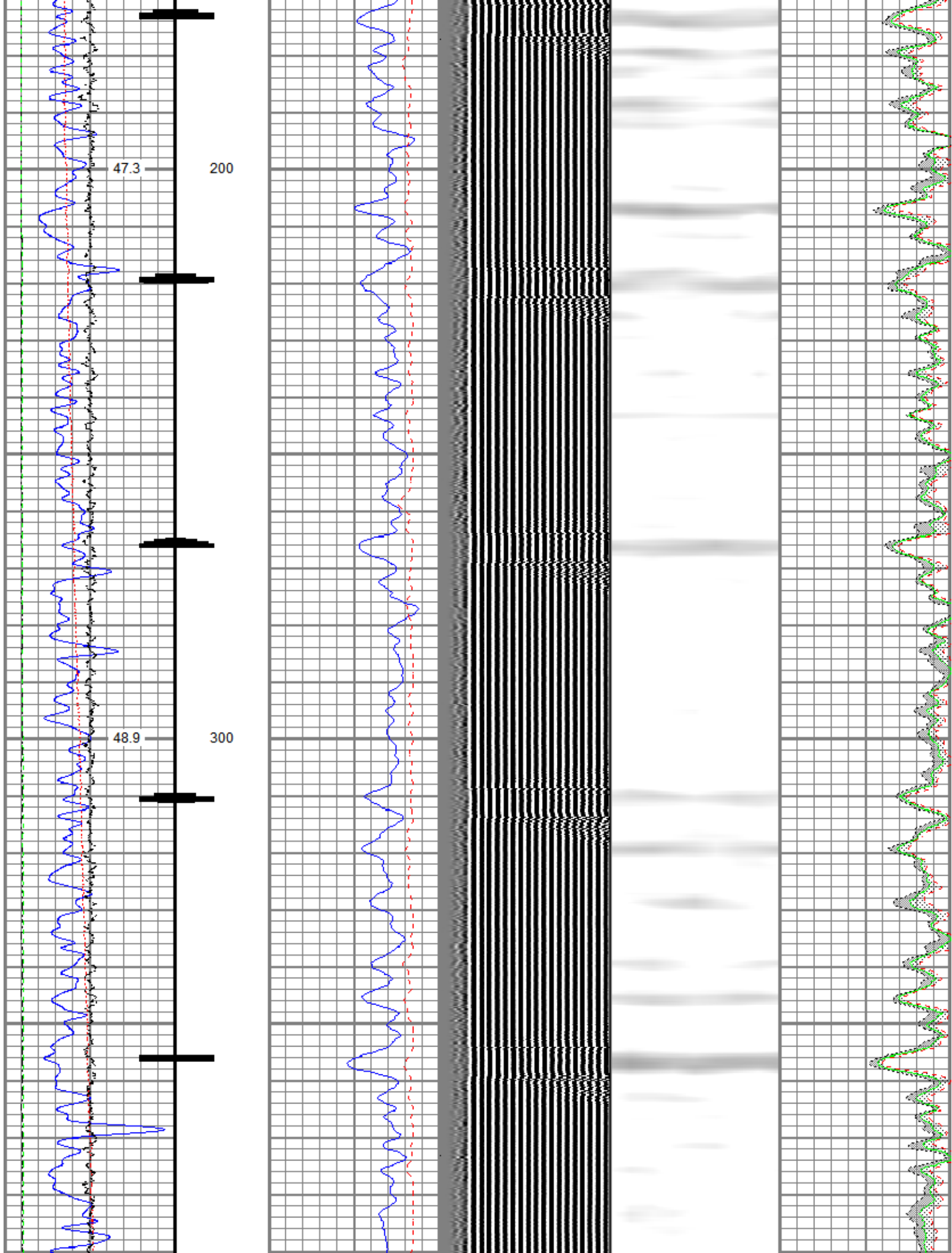


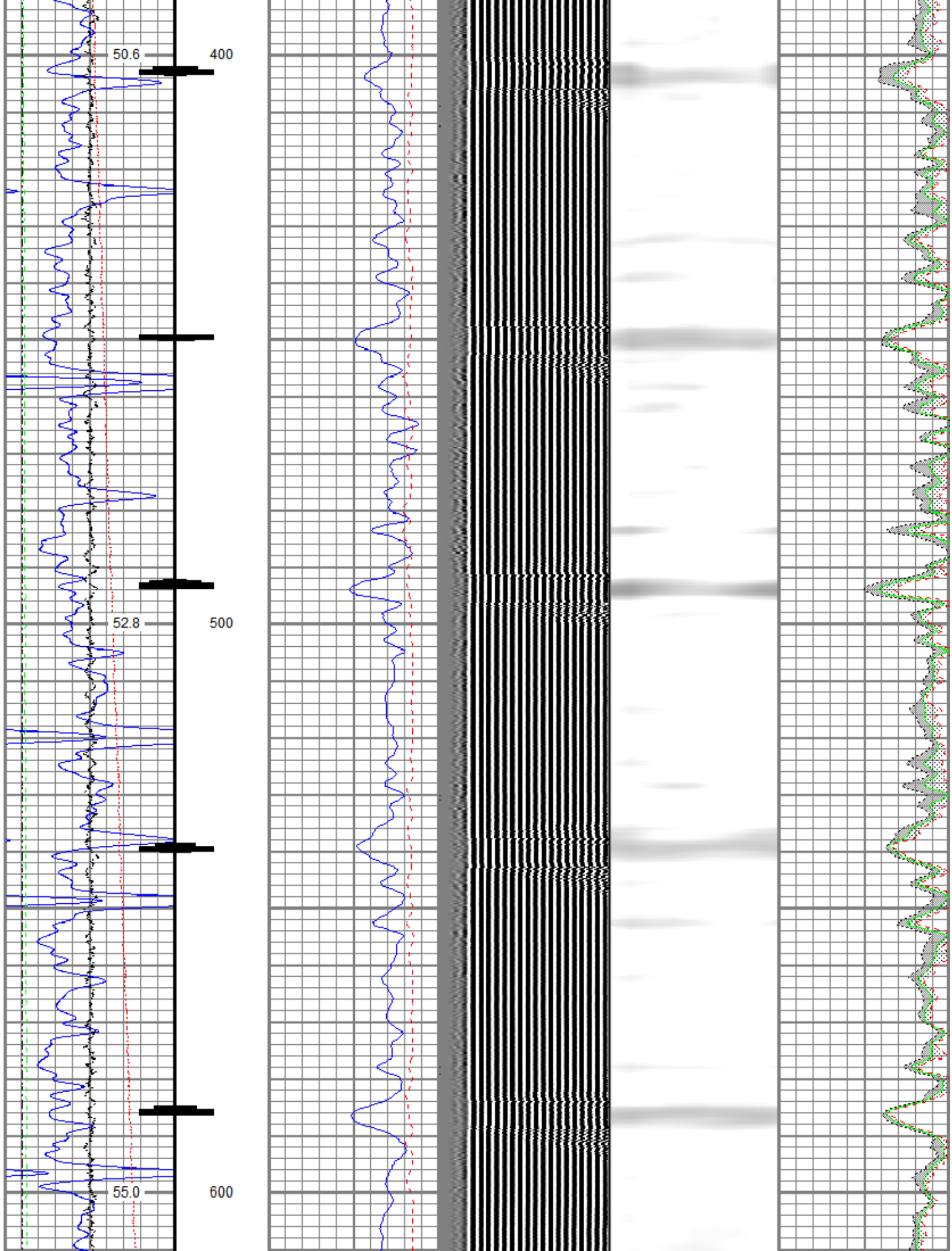
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Kelly Bushing at 30 FT Marker Joint logged from 7277 FT - 7298 FT and 8913 FT - 8935 FT Recorded with 0 PSI Surface Induced Pressure</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!</p>

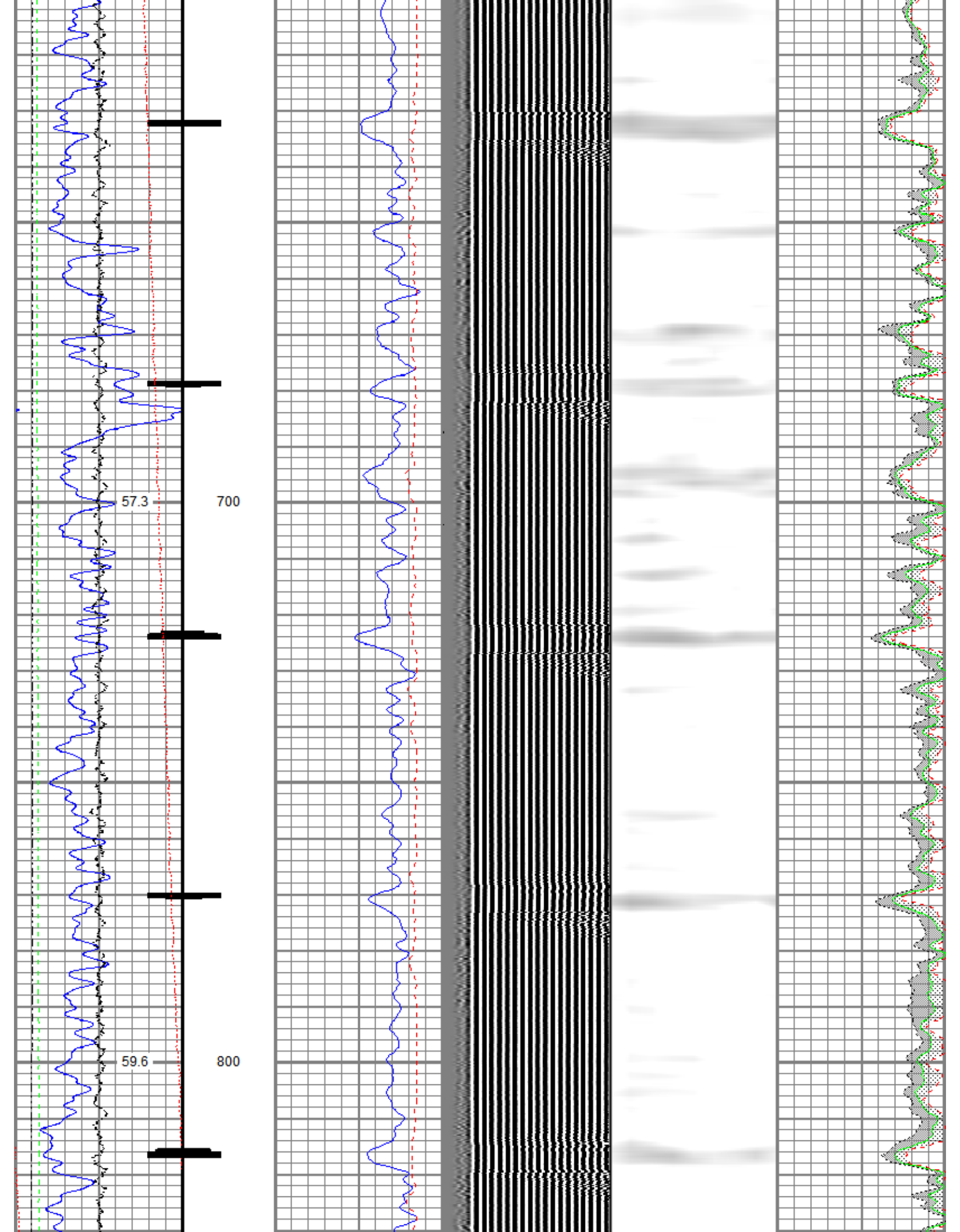
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Dataset Pathname	main.9
Presentation Format	ros_radri
Dataset Creation	Mon Jul 15 11:15:02 2019
Charted by	Depth in Feet scaled 1:240

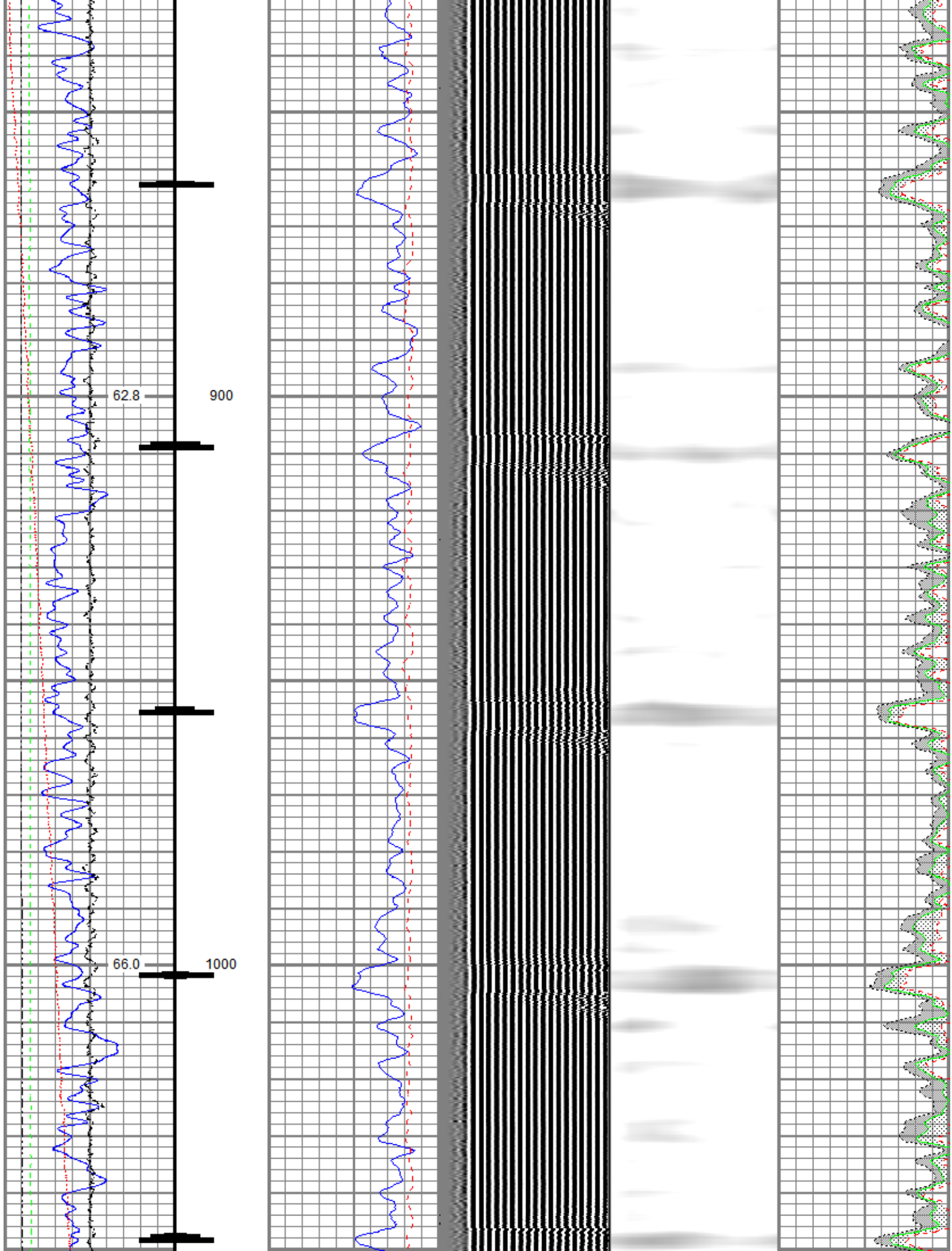
Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
(GAPI)	120	3' Amplitude x 5	200	(usec)			Minimum Amplitude	
Casing Collar Locator		0	(mV)	20			0	100
Temperature (degF)	20	3' Travel Time					Maximum Amplitude	
Line Speed		650	(usec)	150			0	100
-150	(ft/min)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

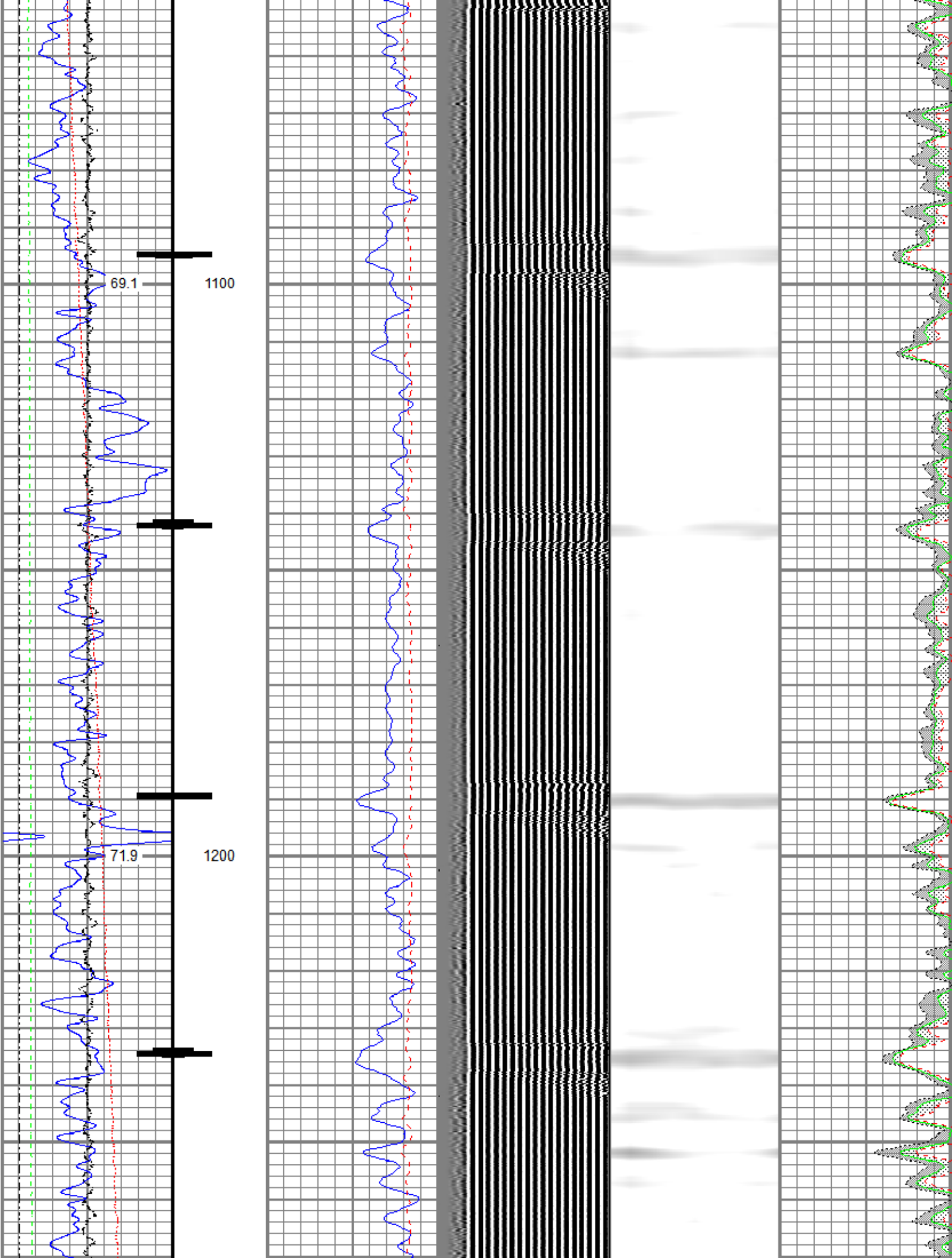


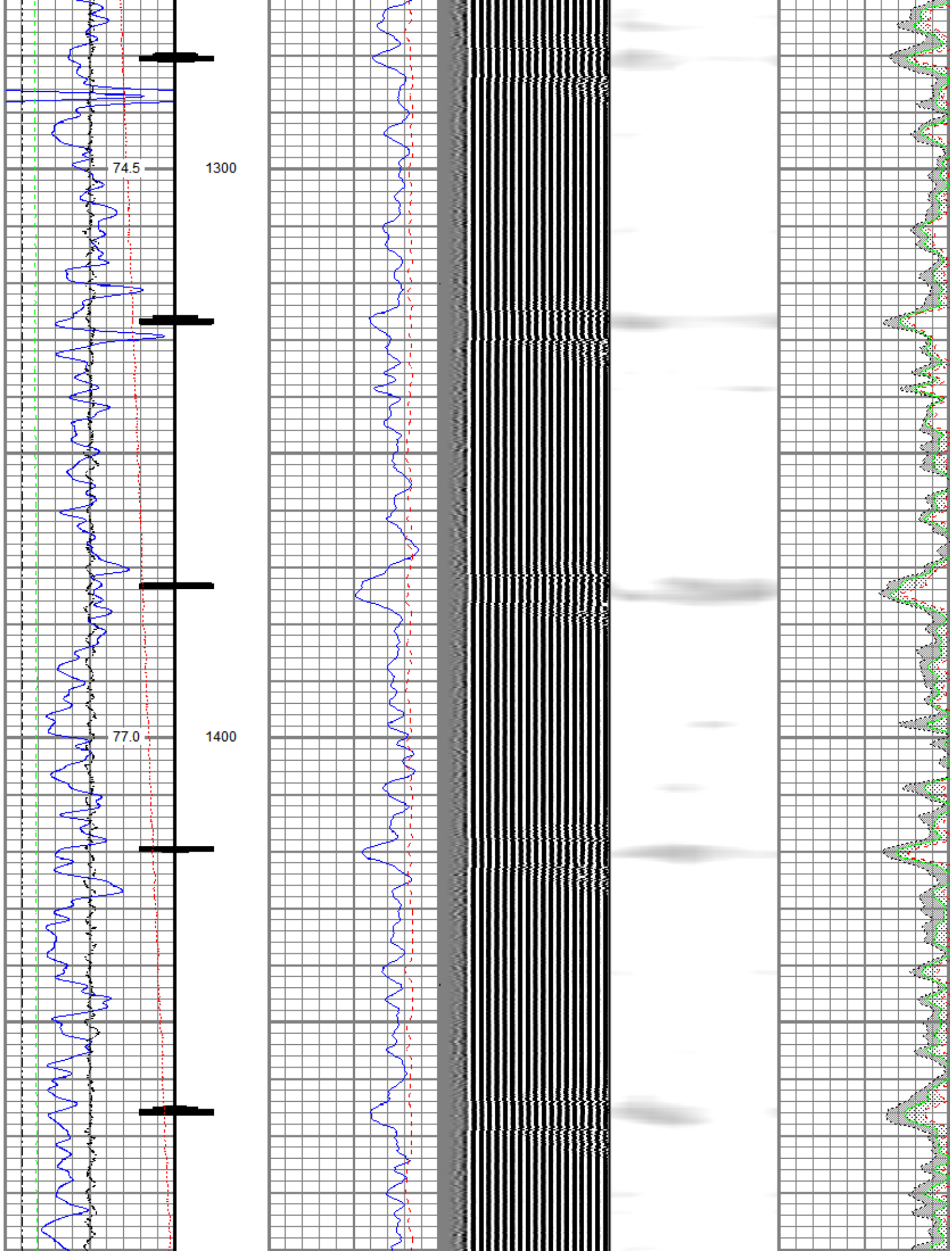


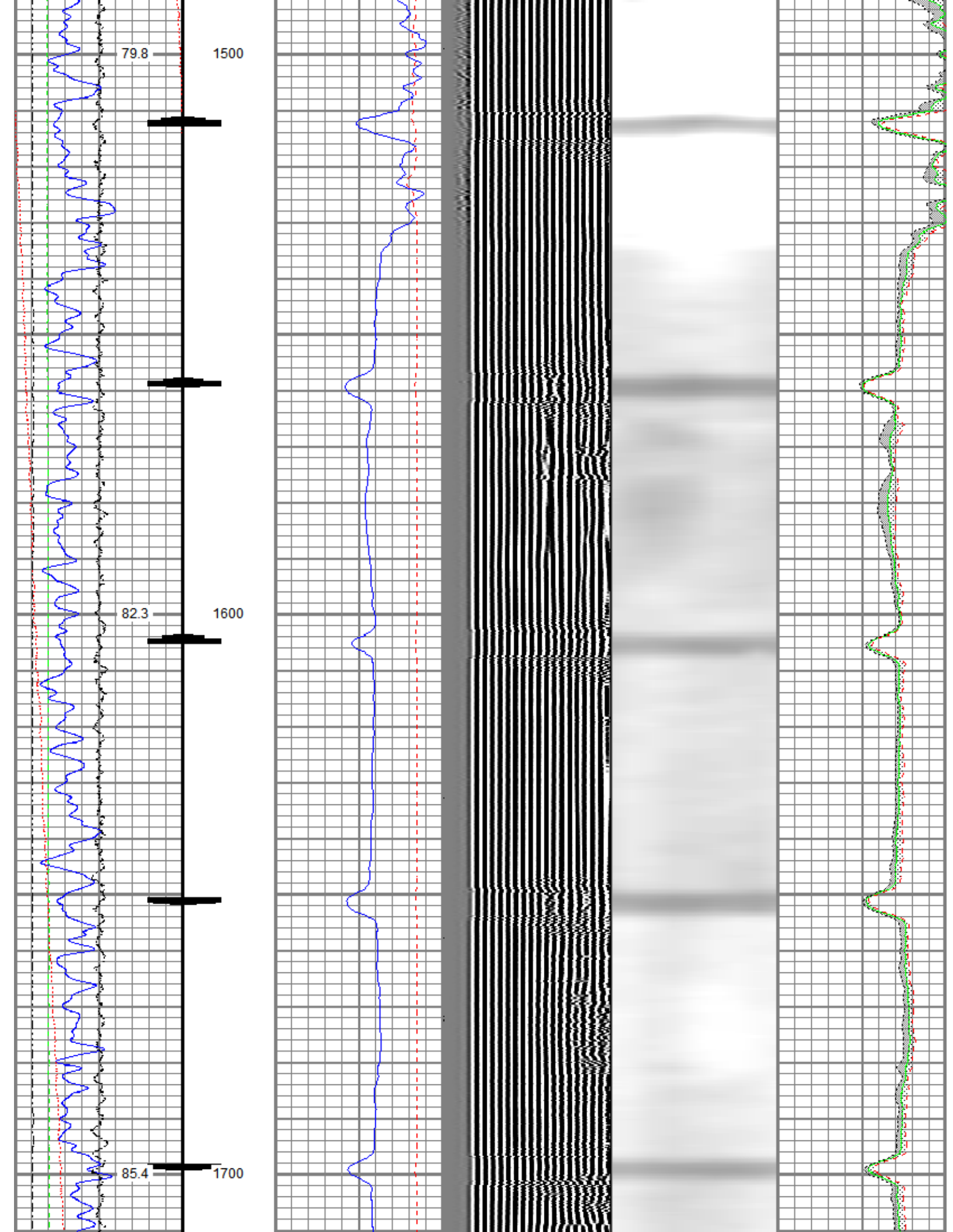


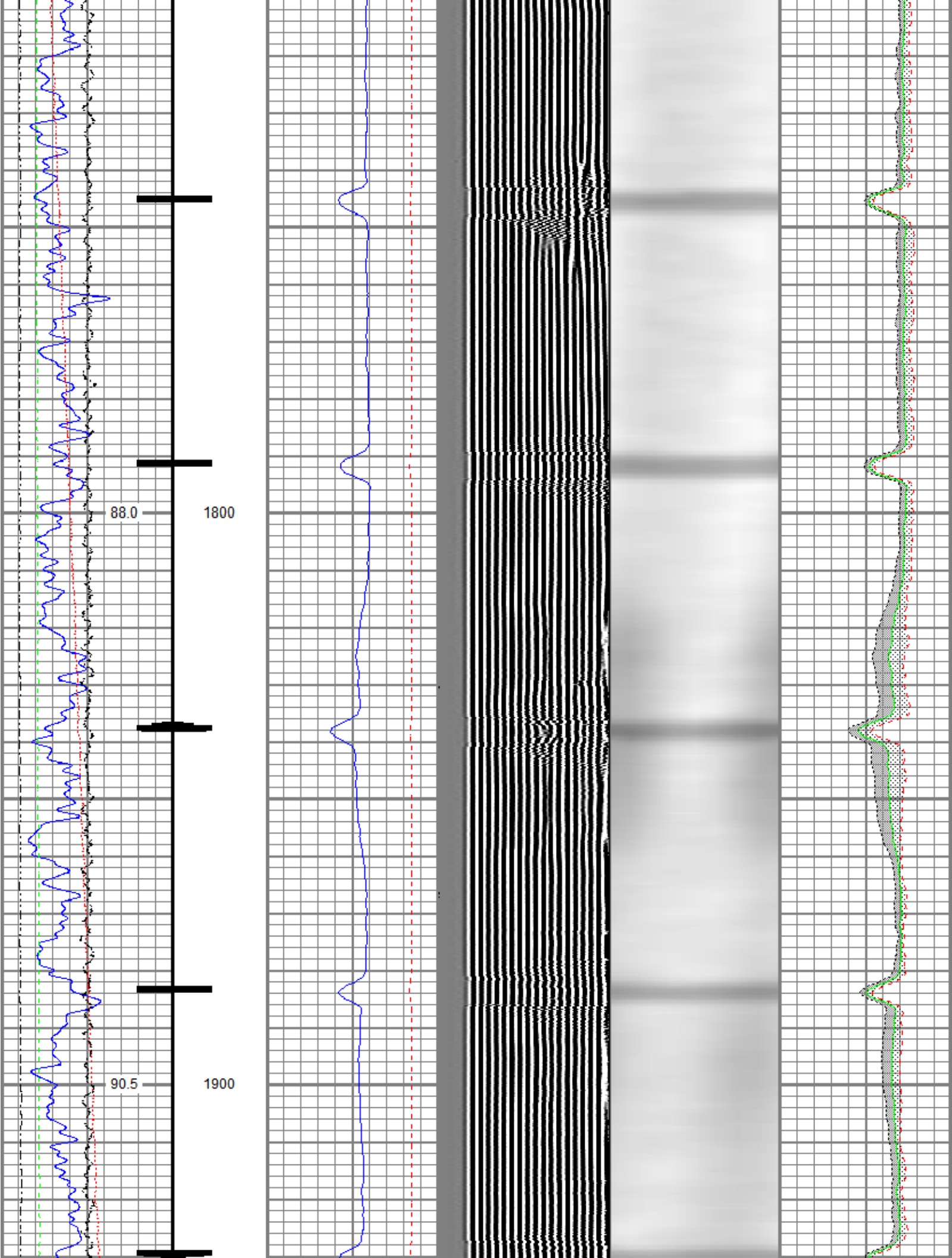


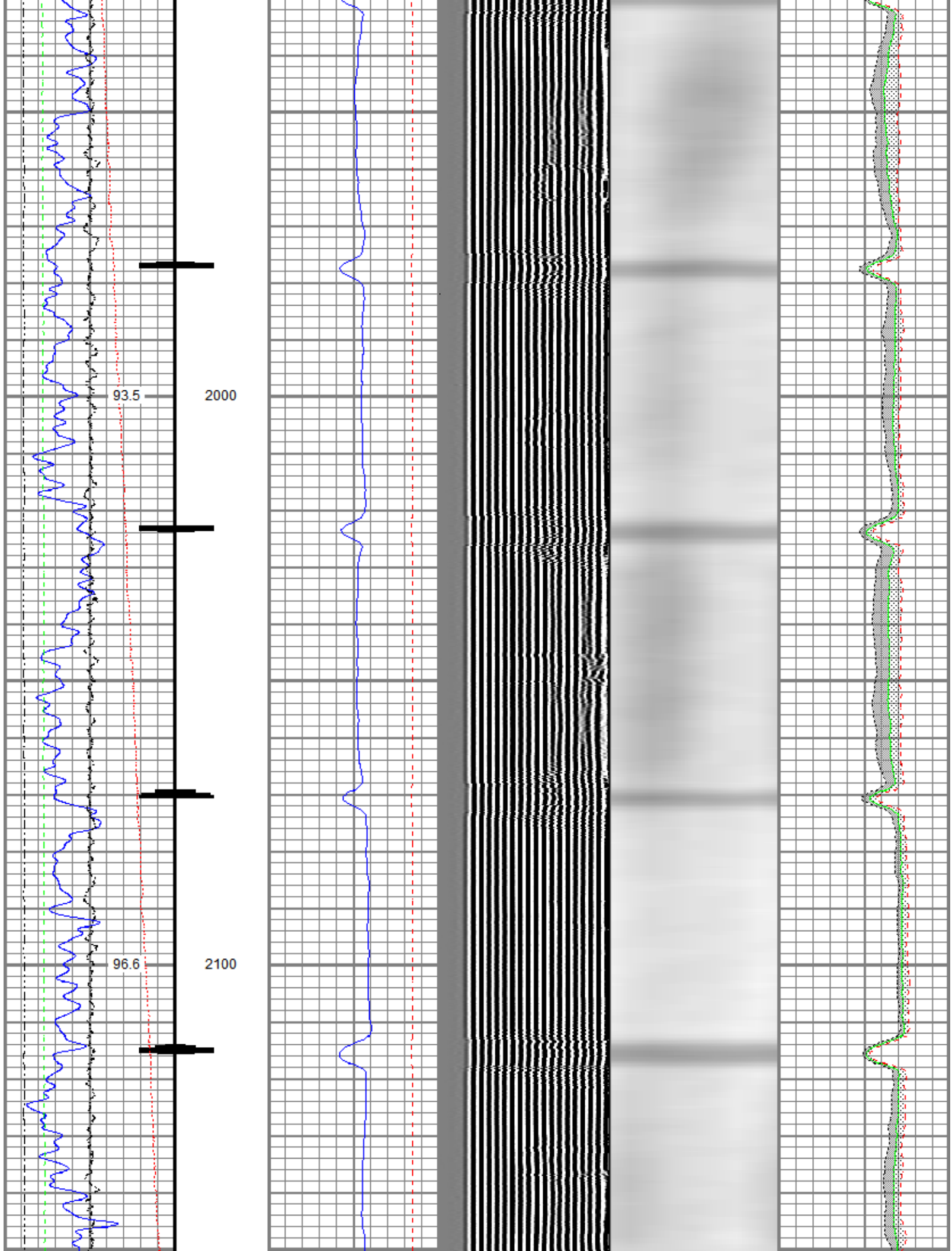


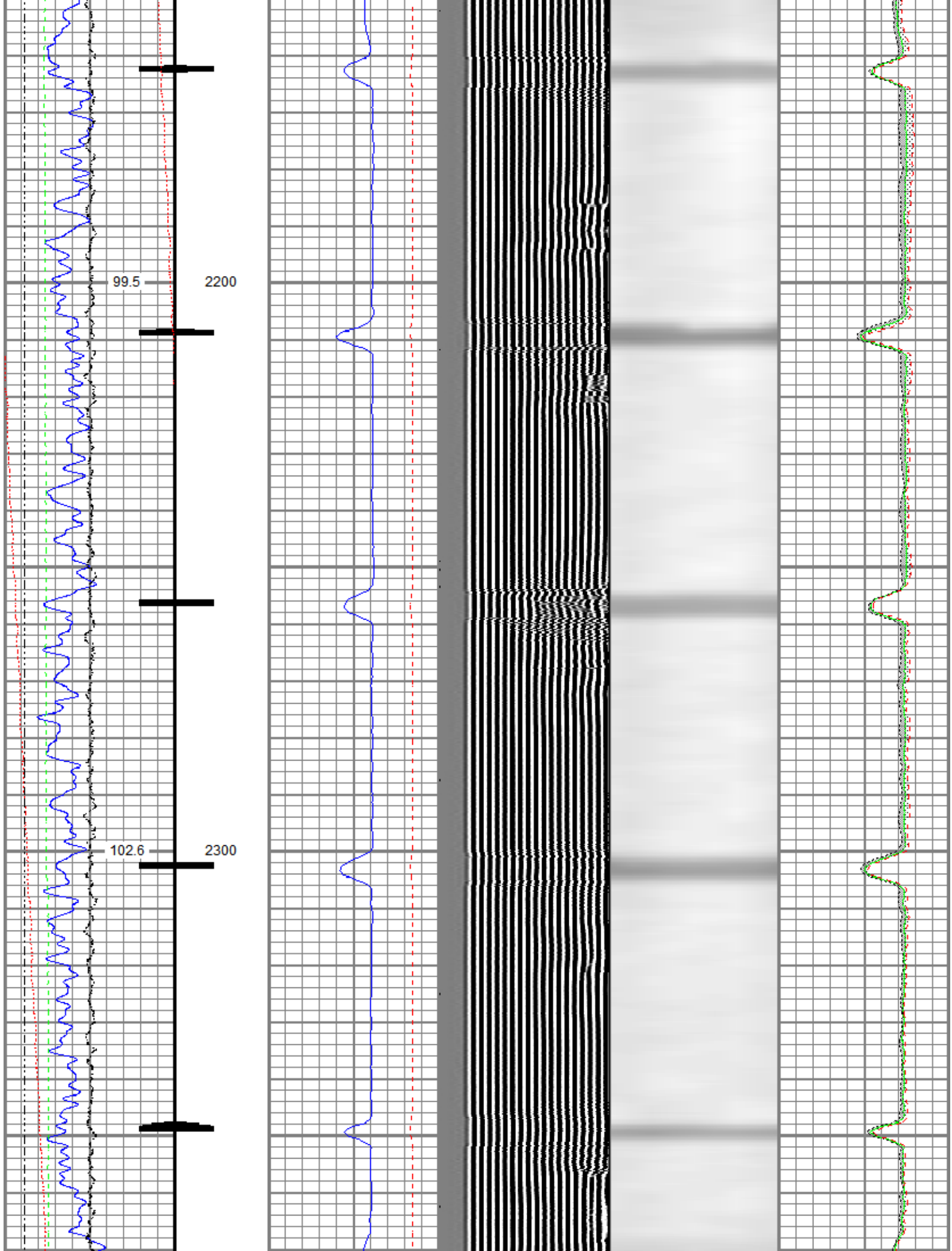


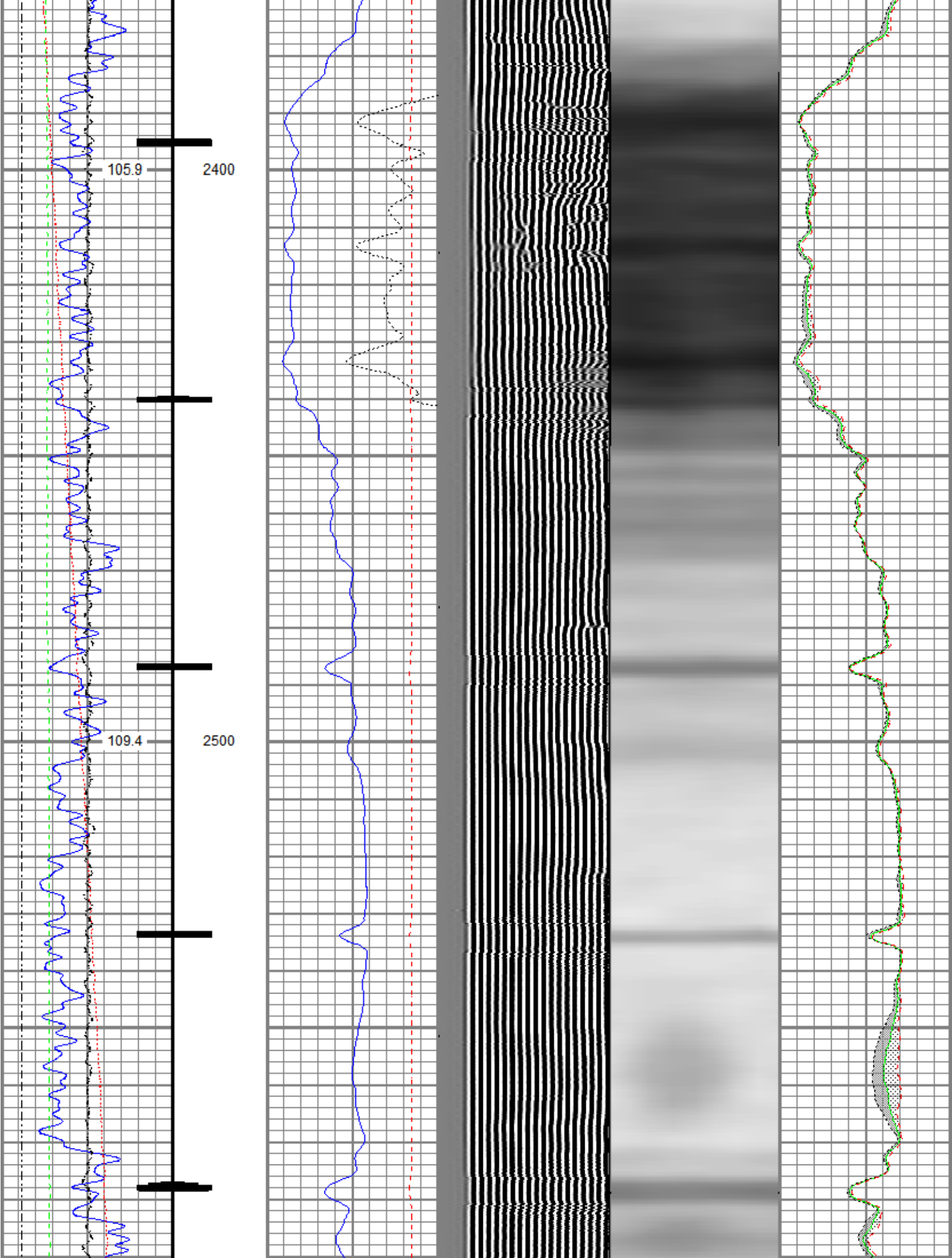


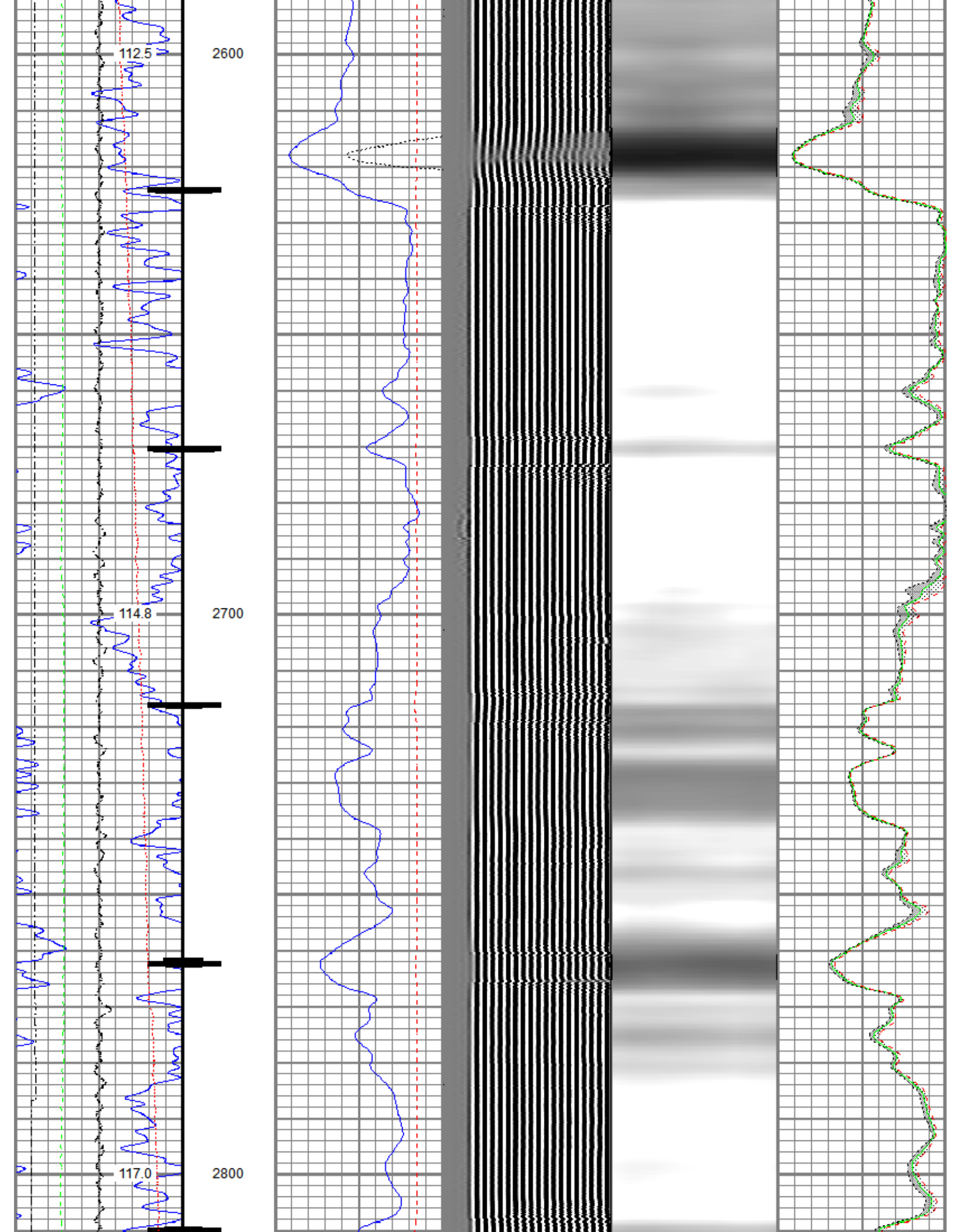


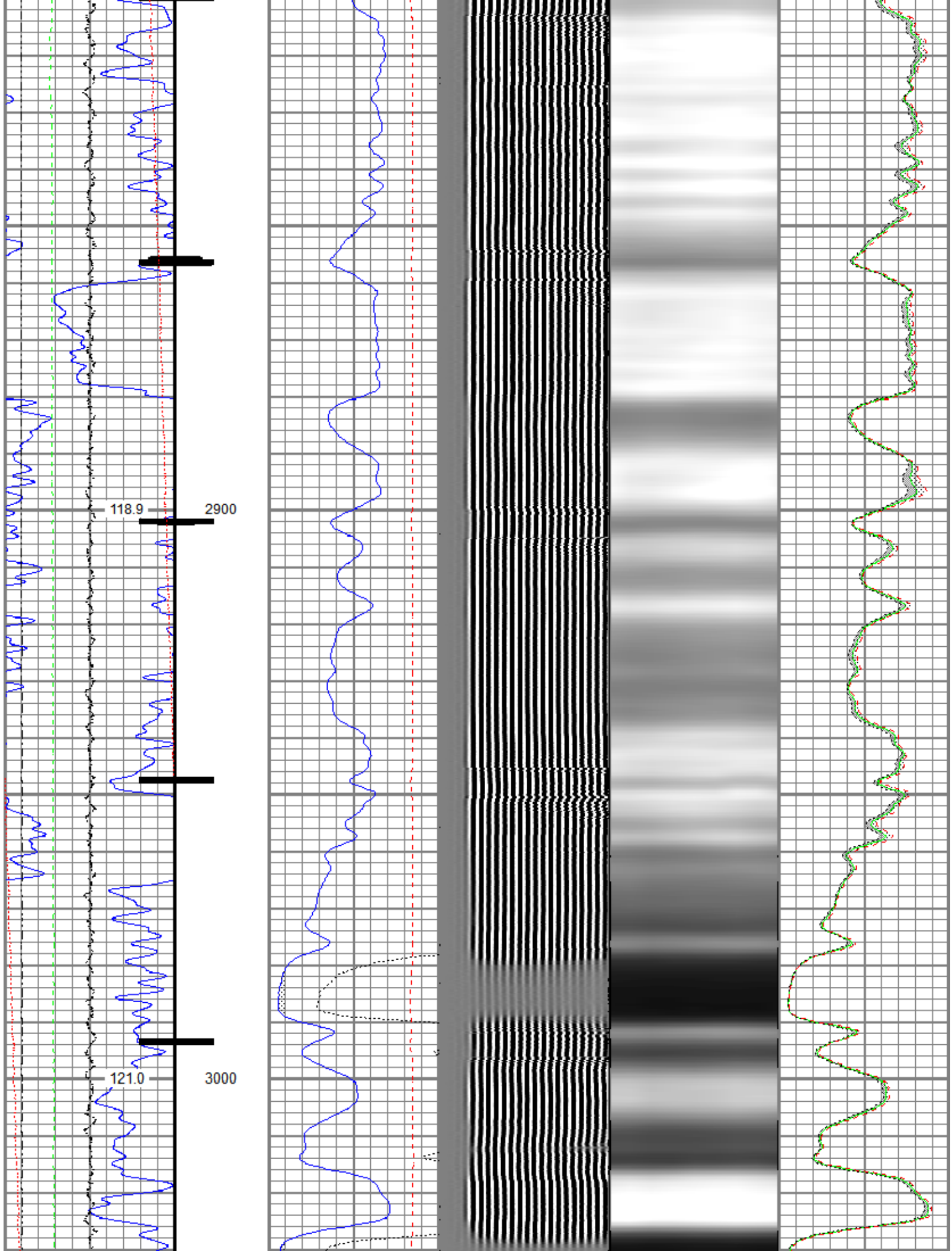


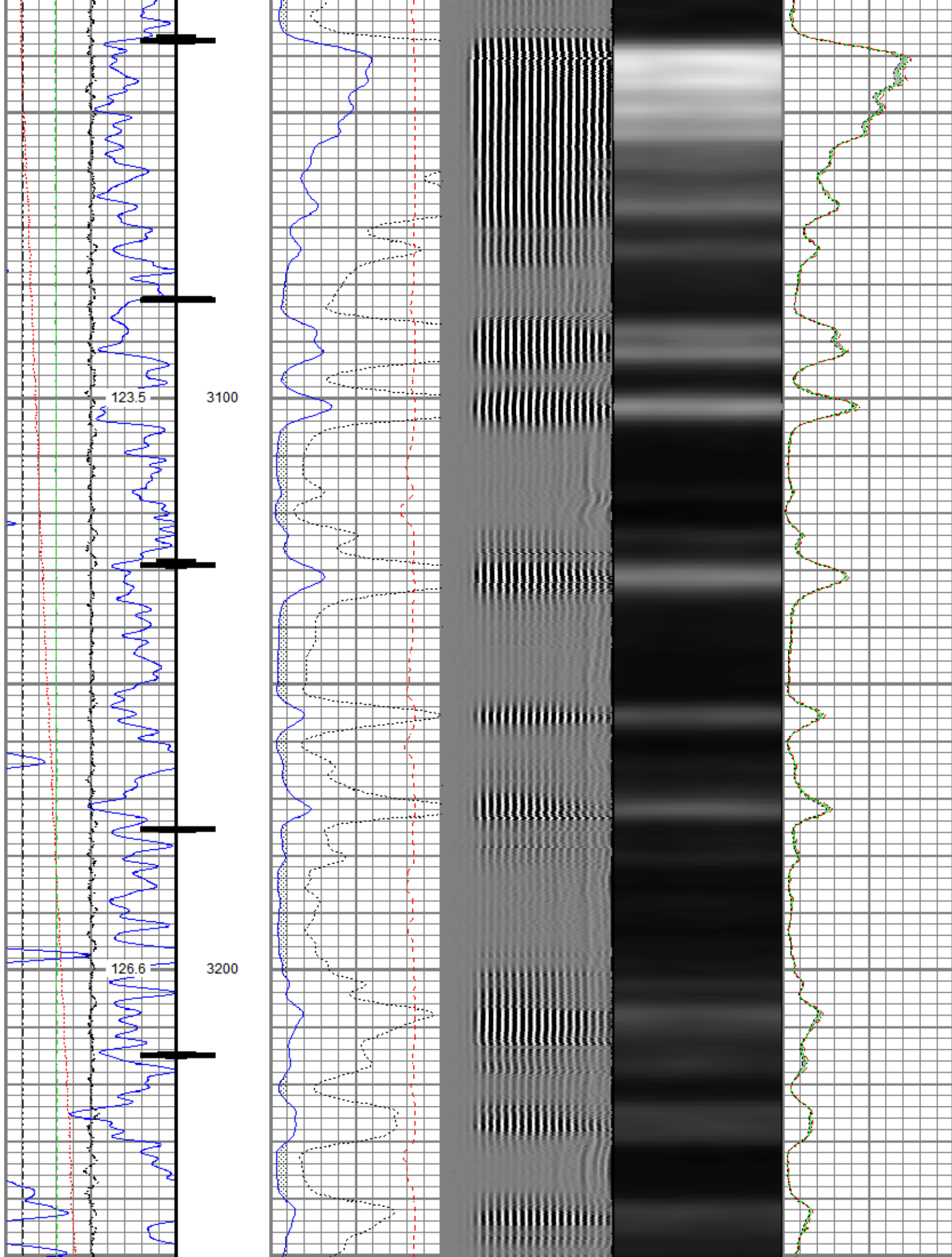


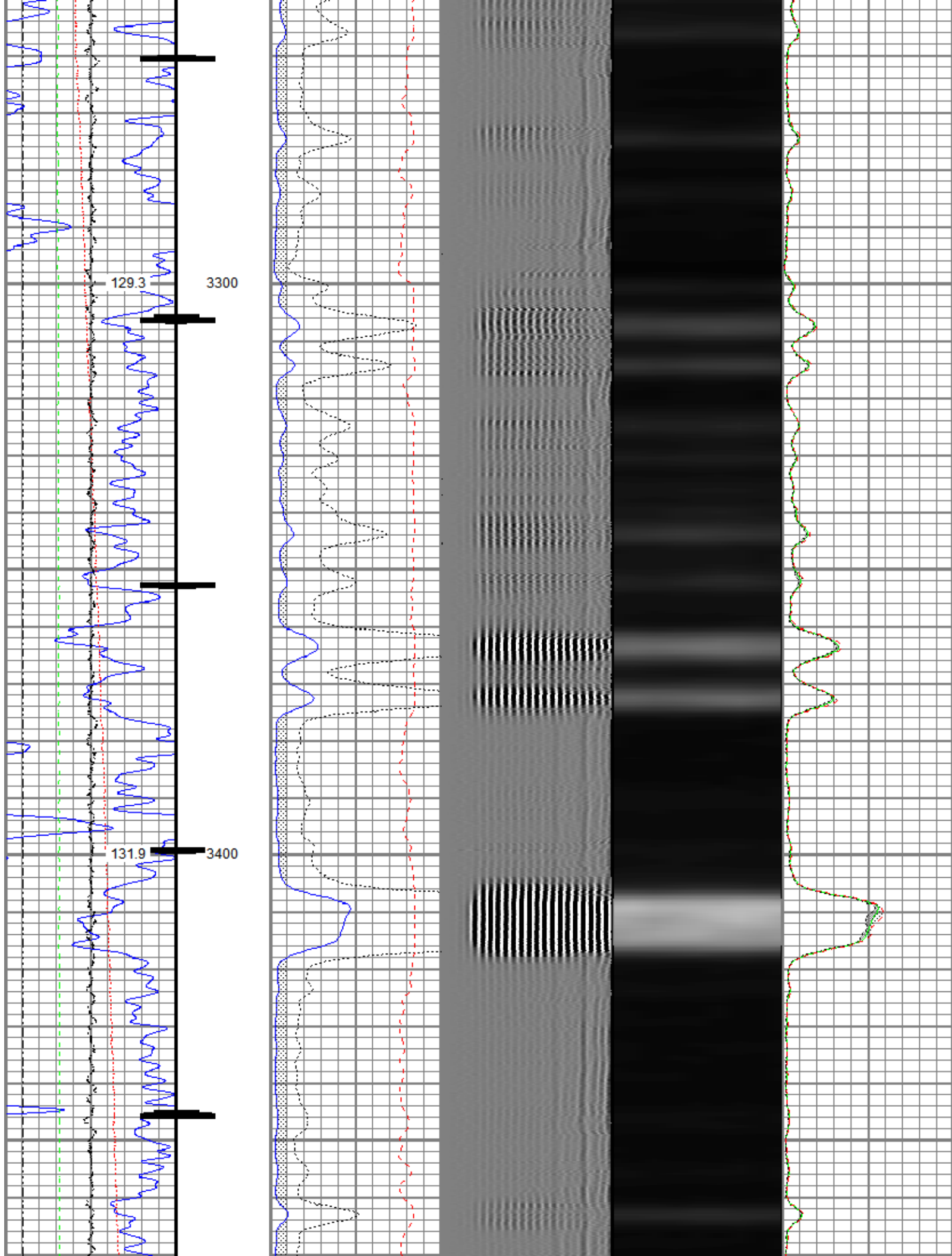


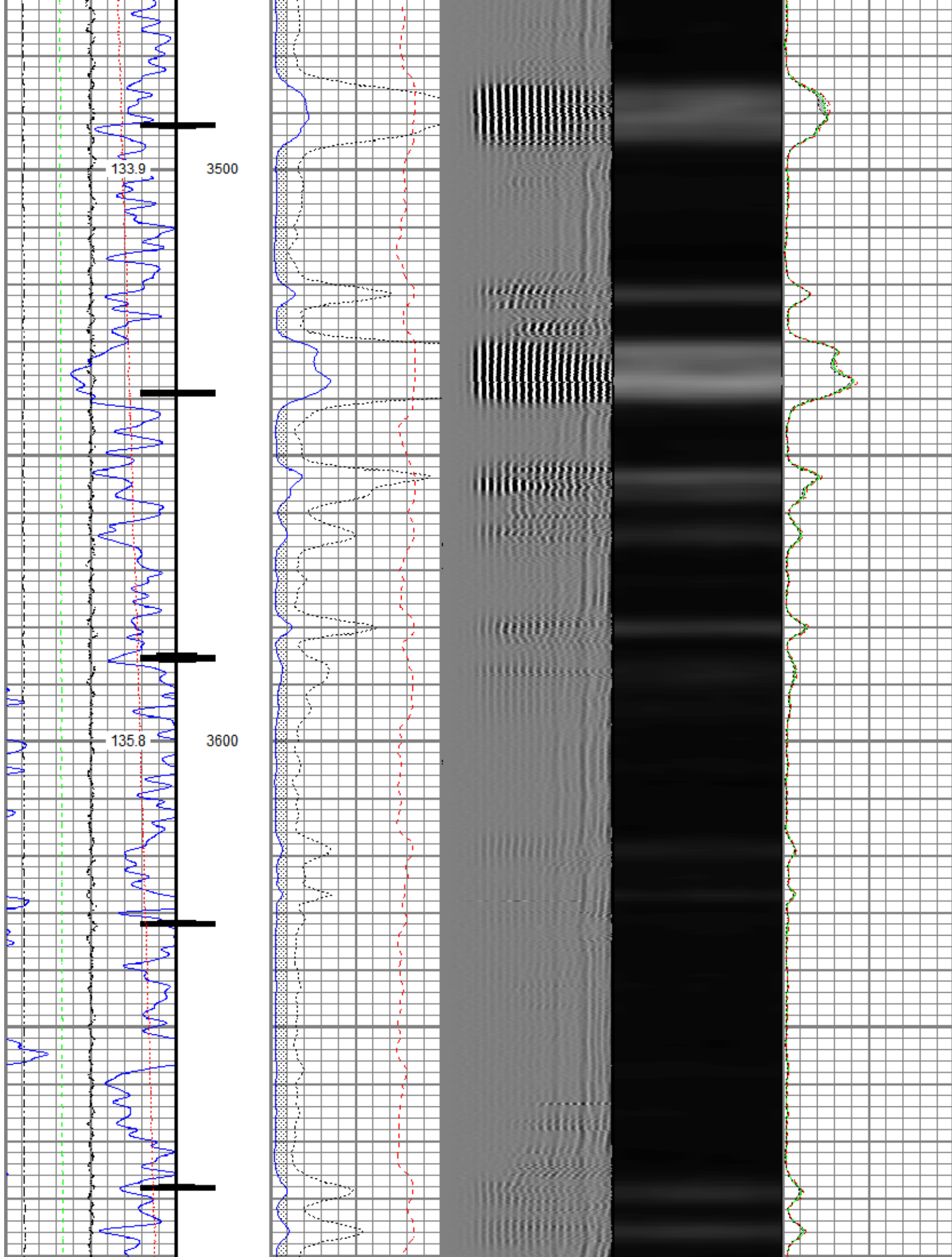


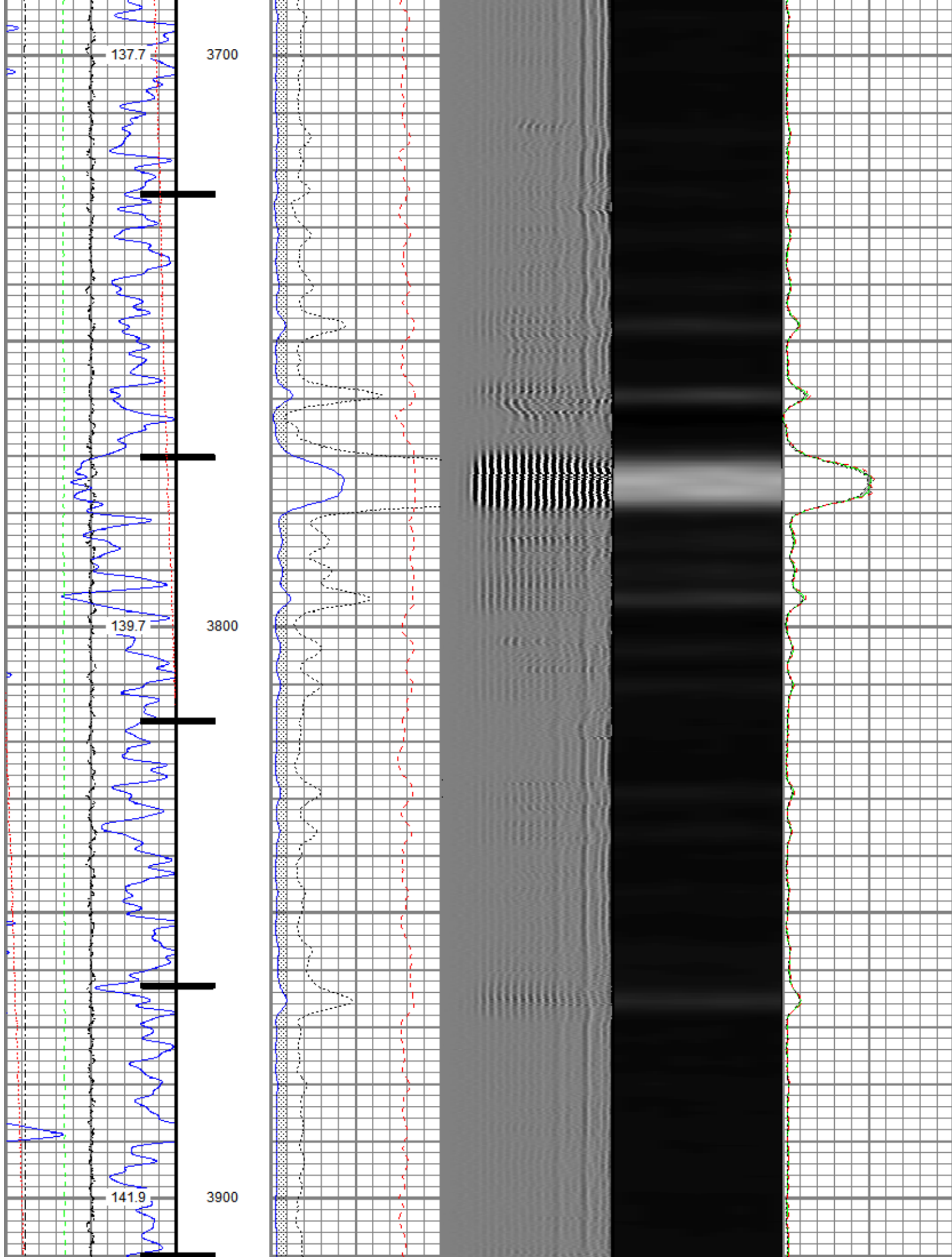


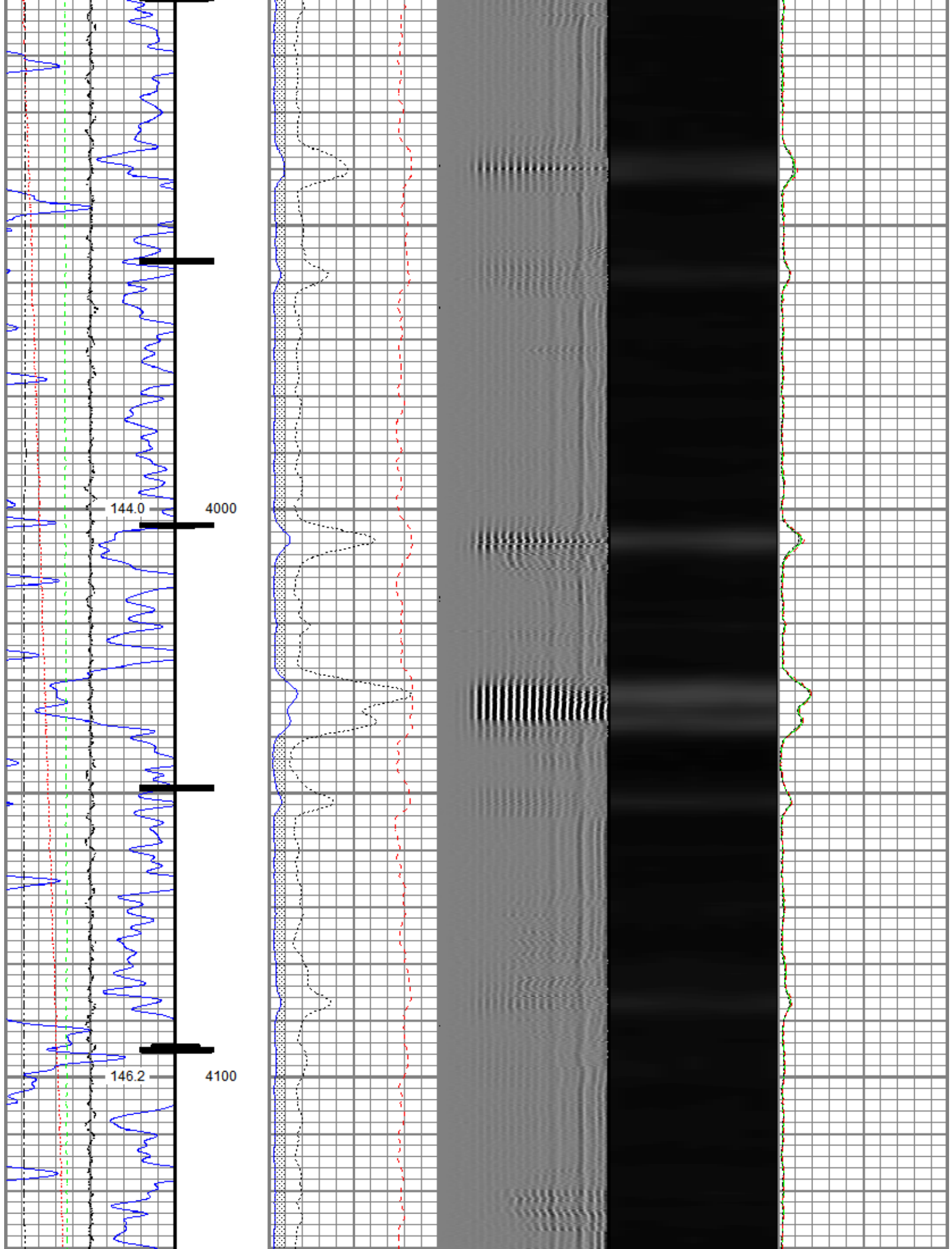


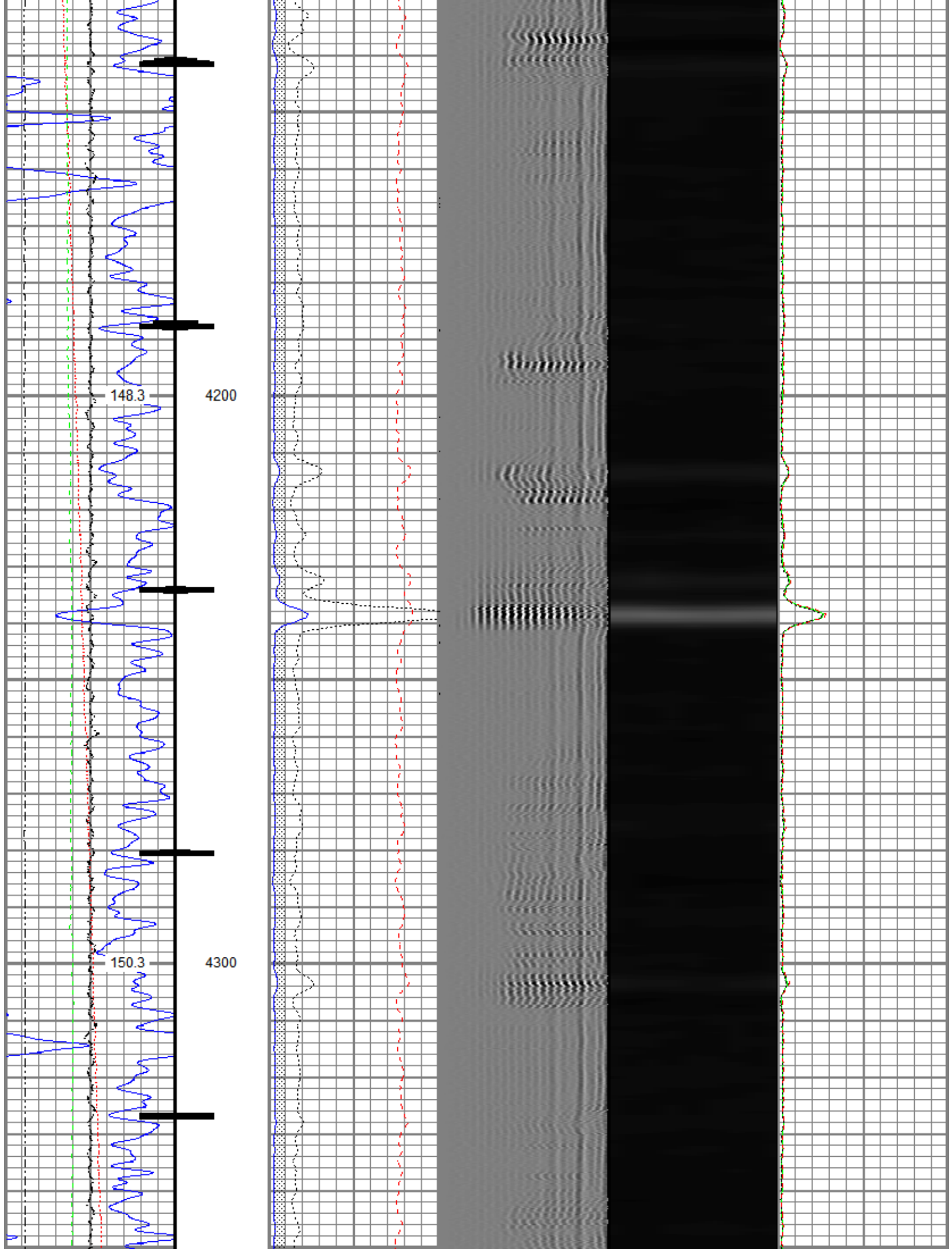


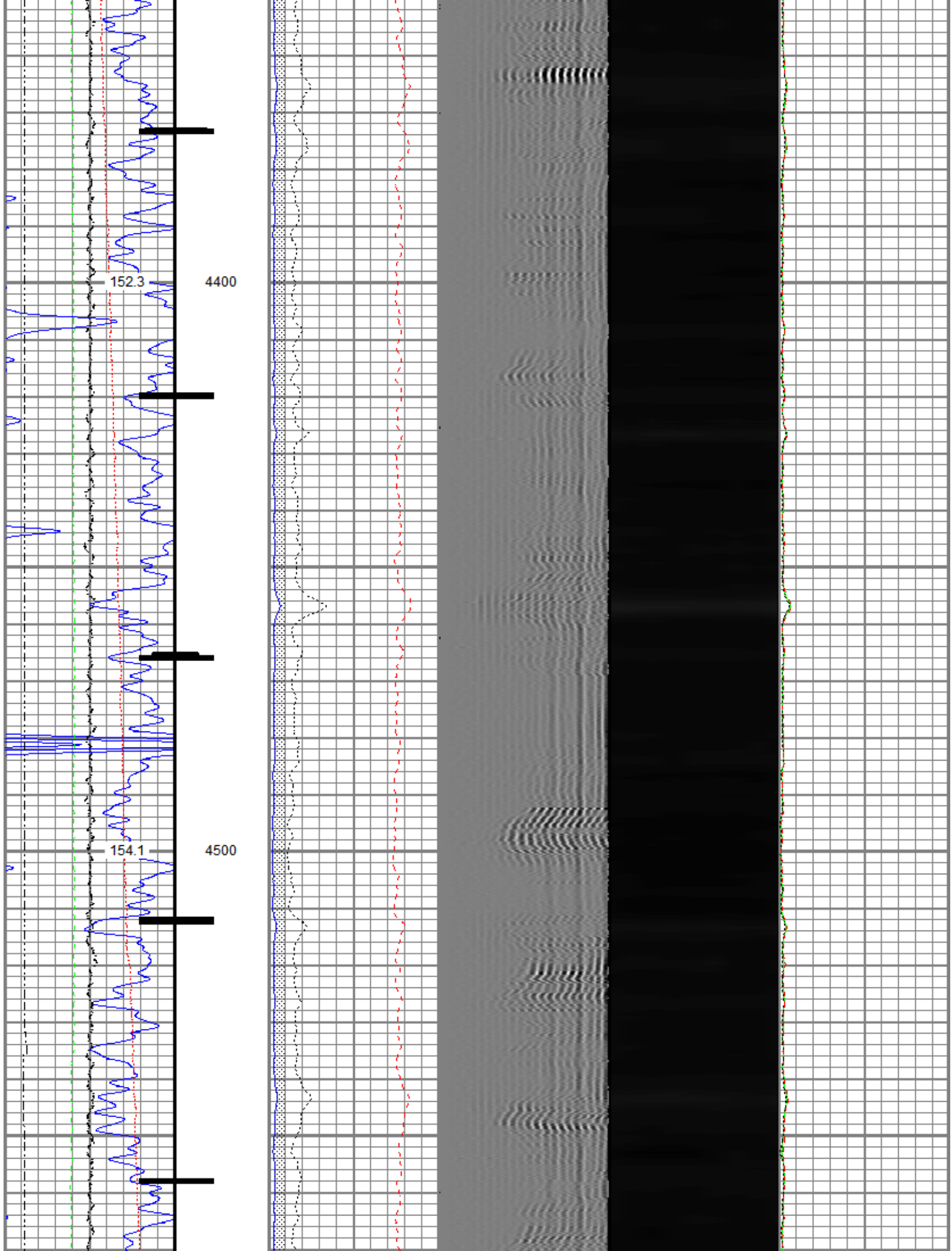


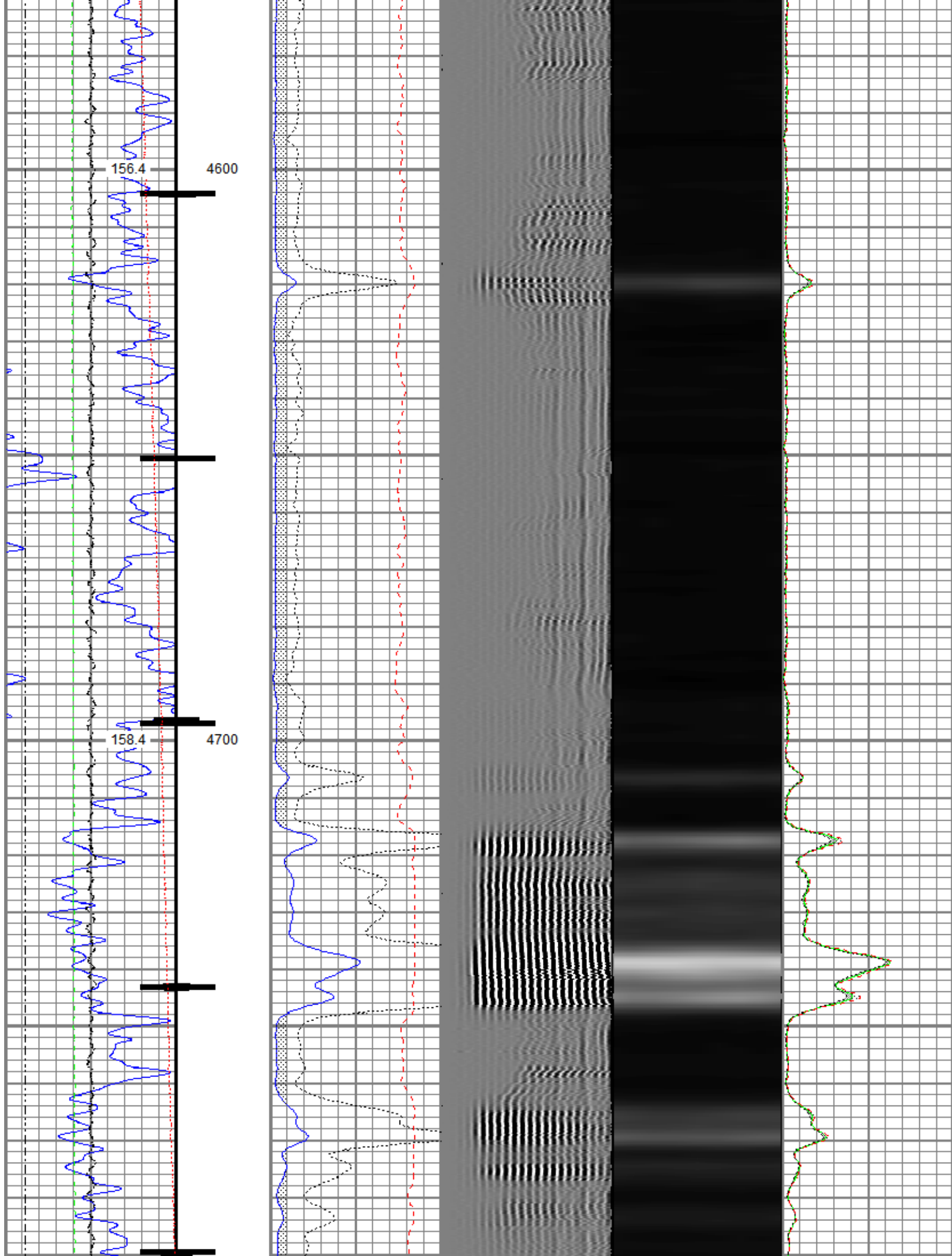


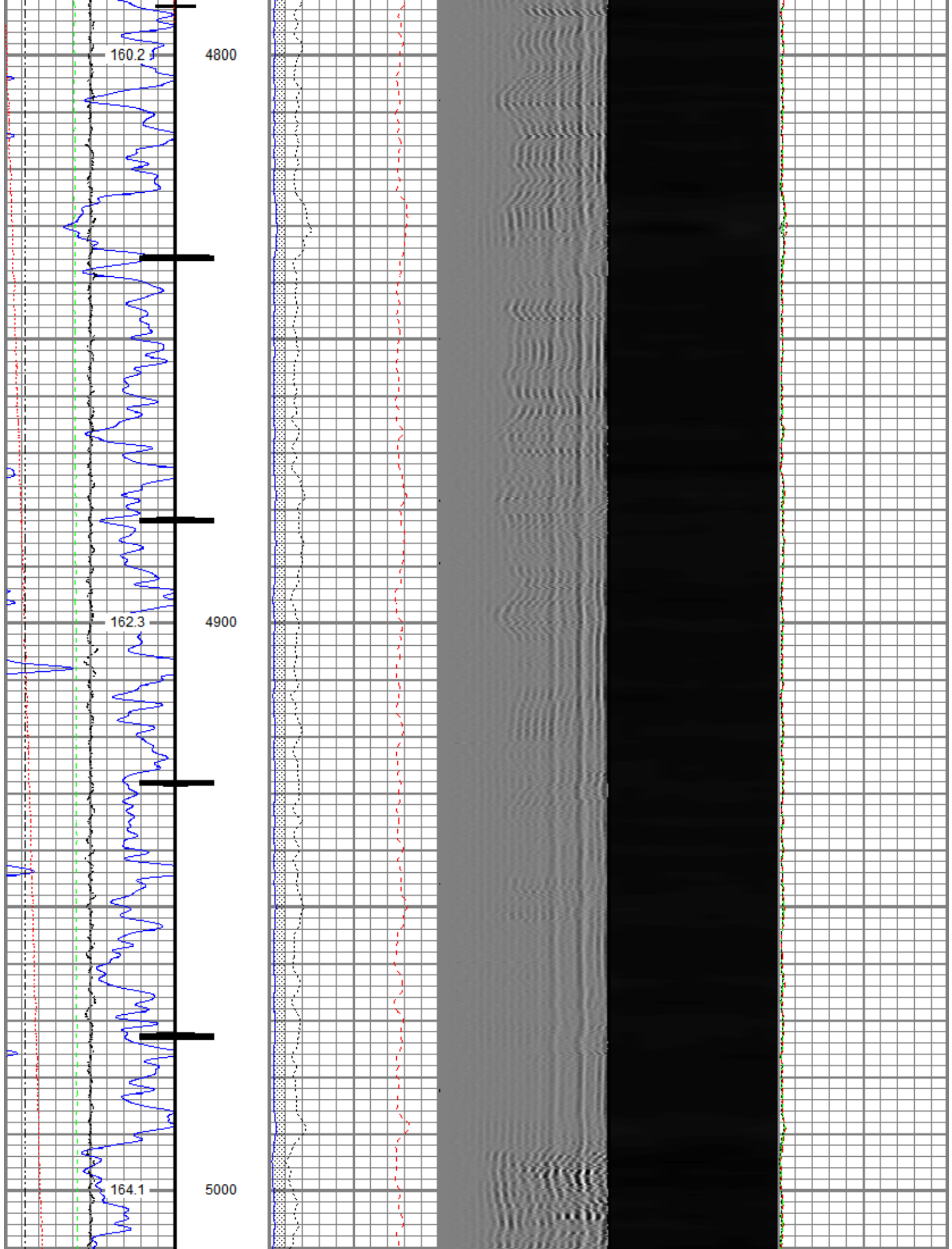


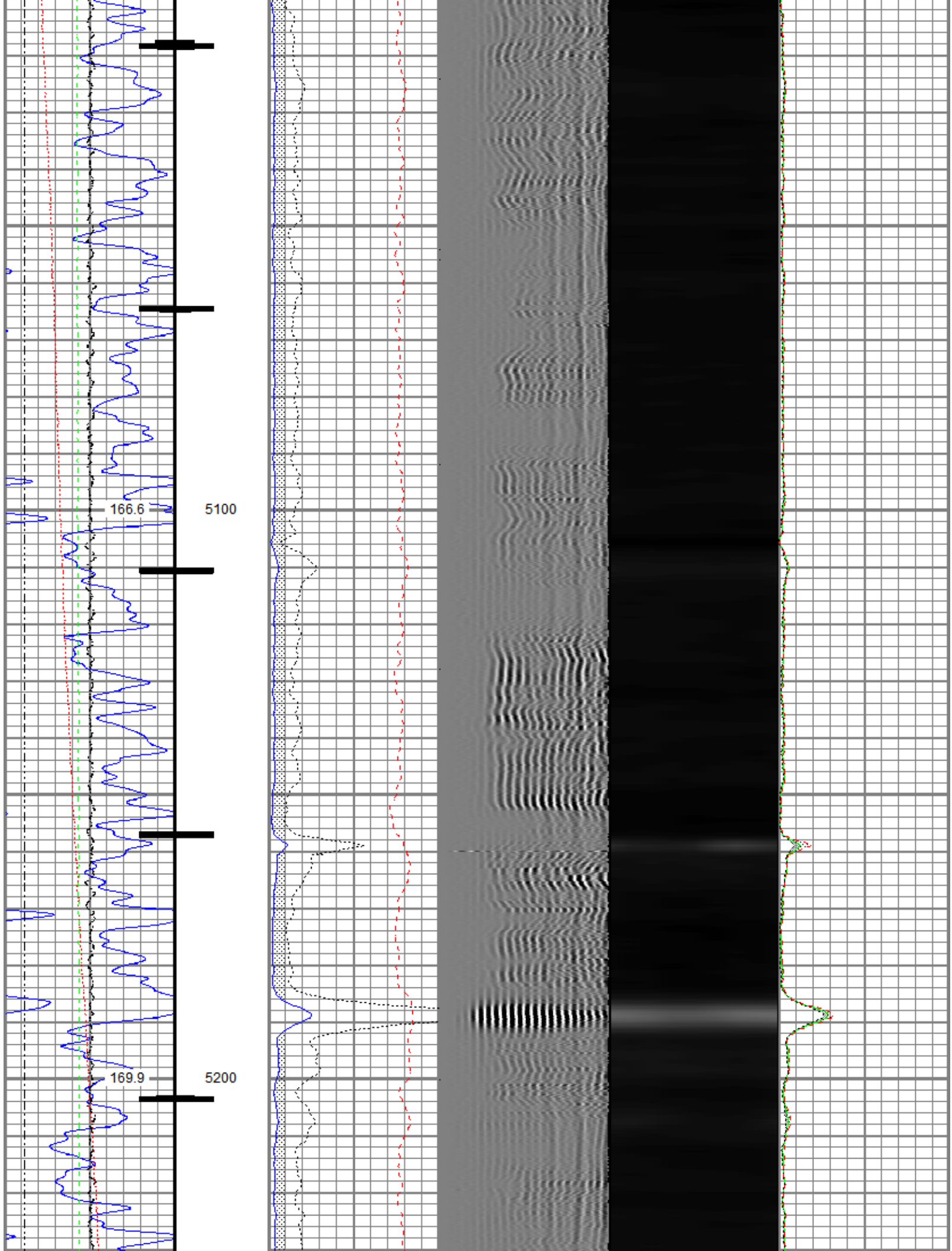


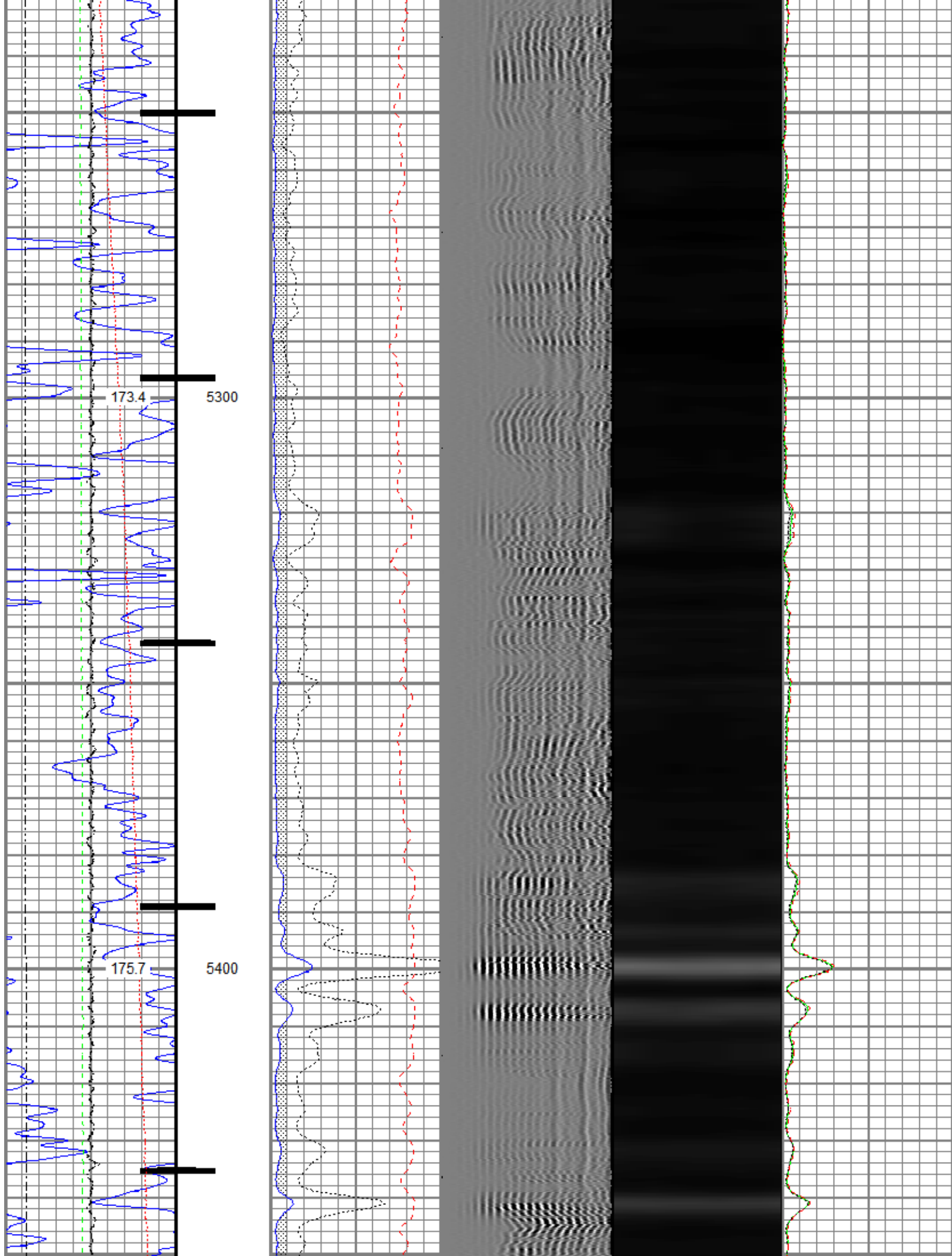


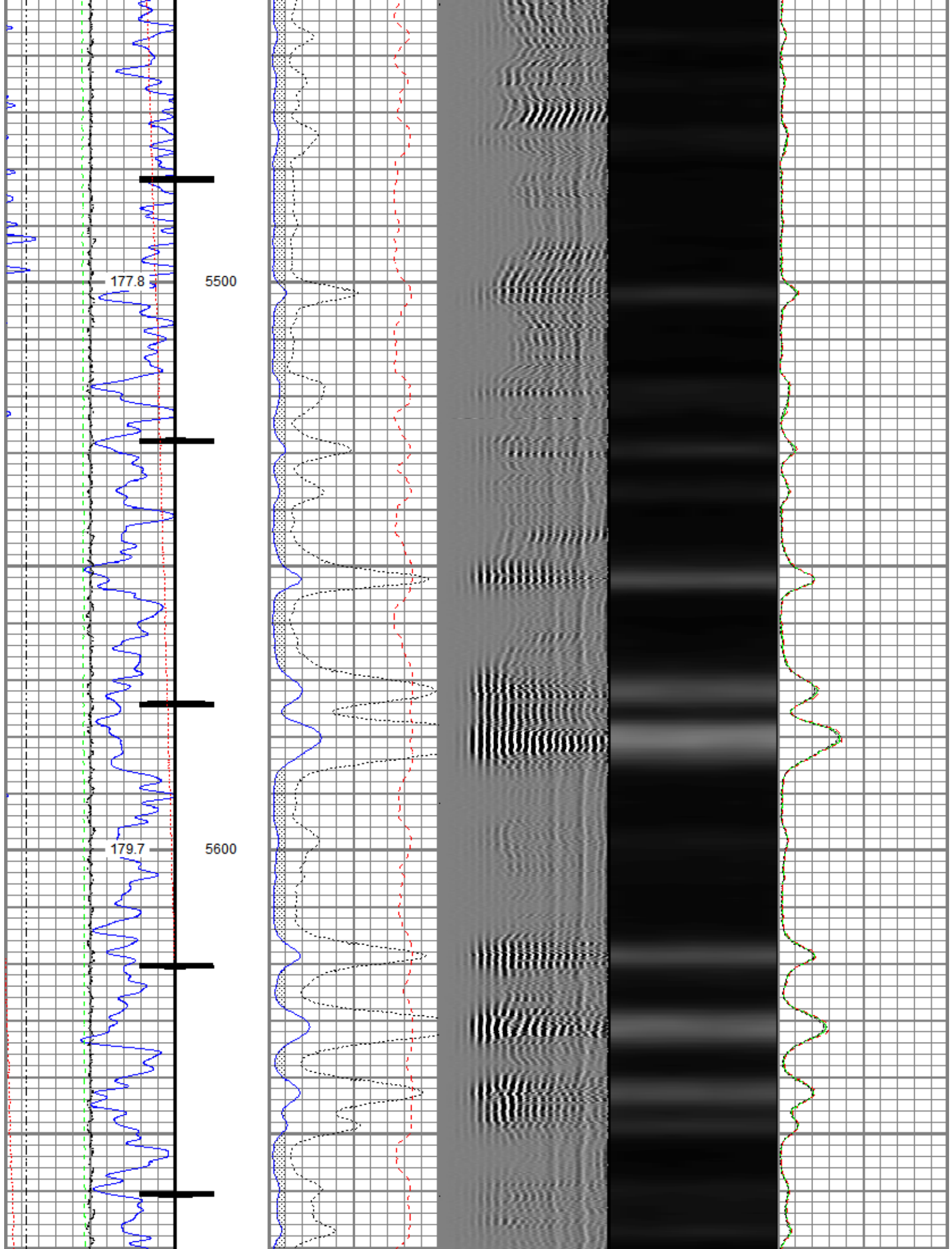


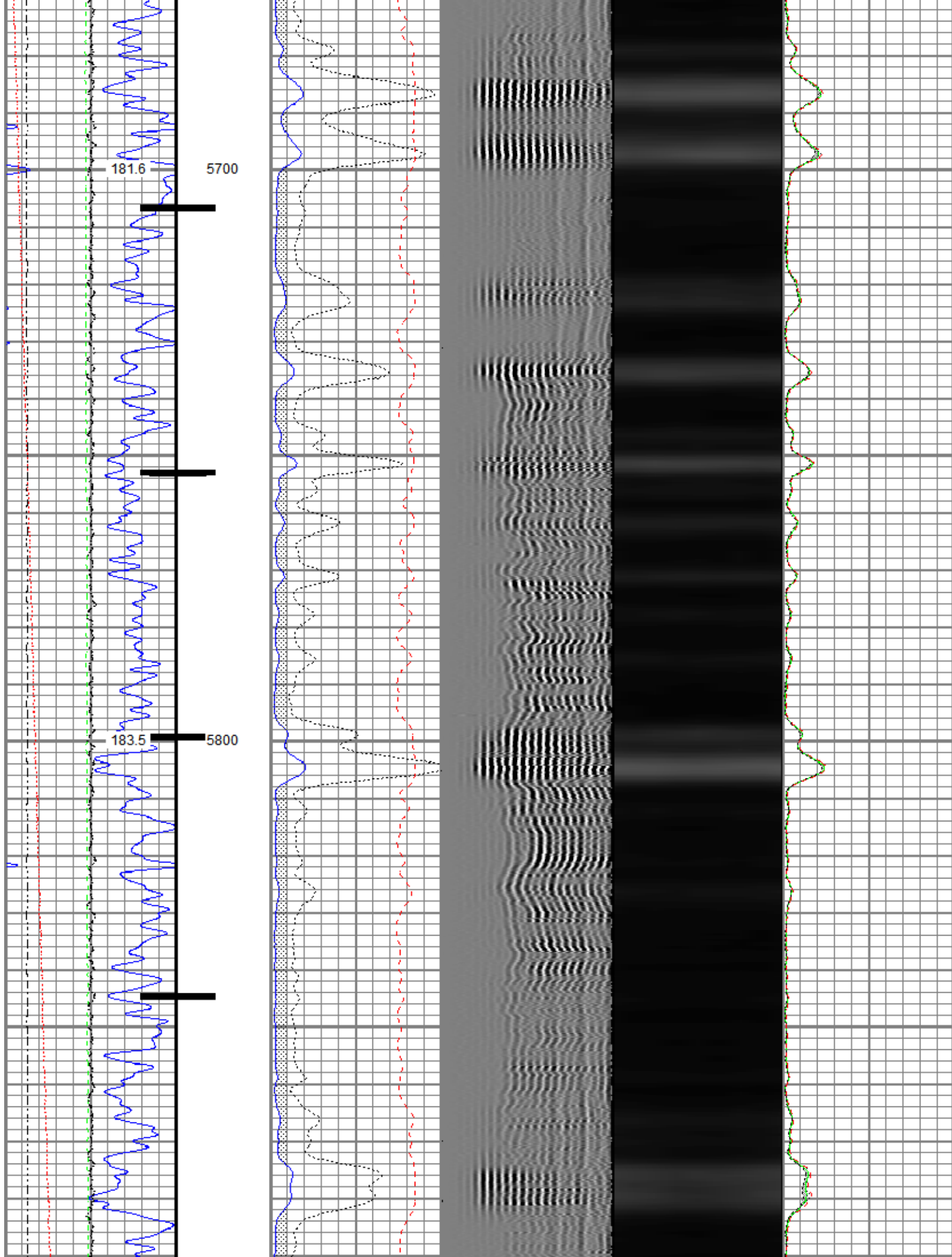


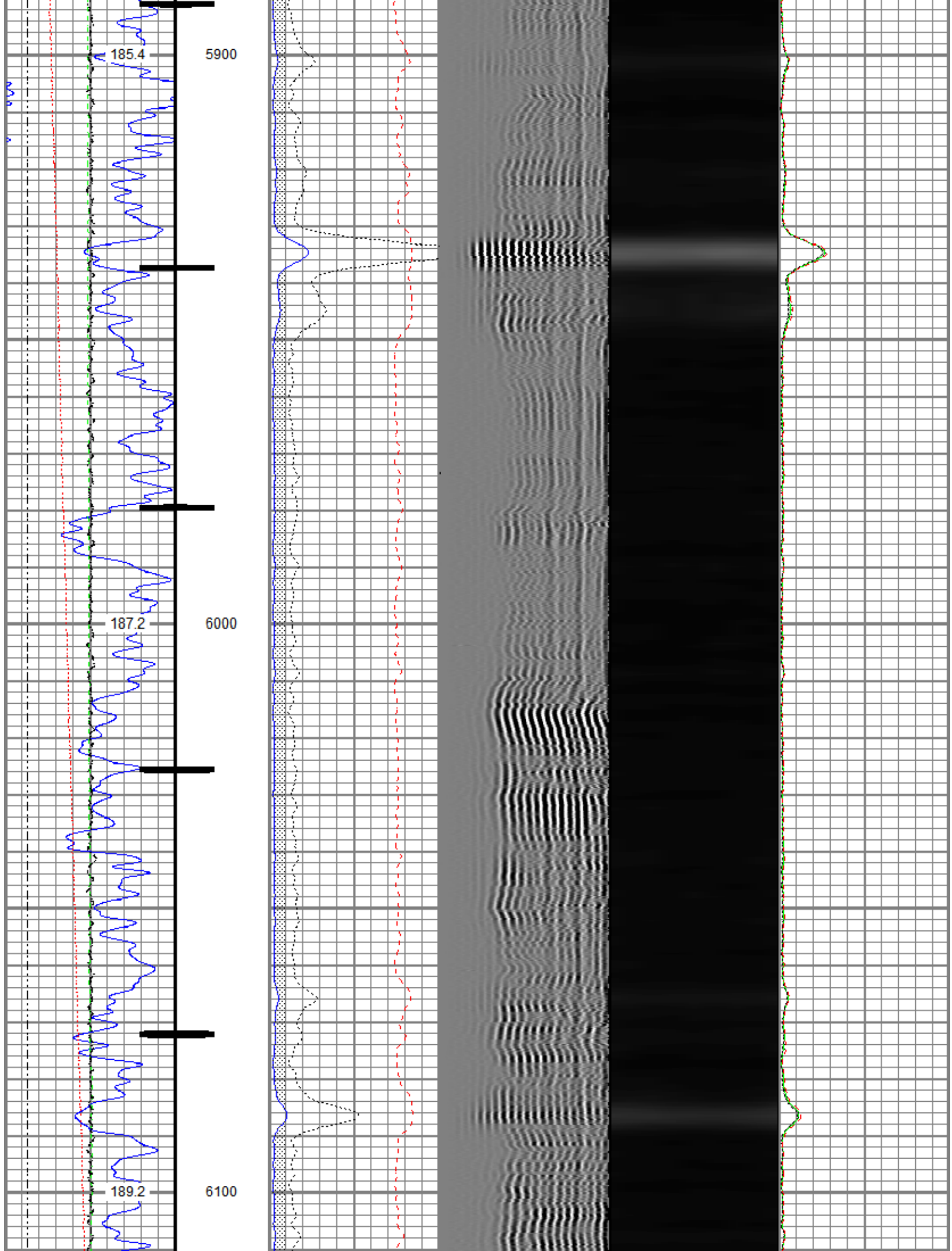


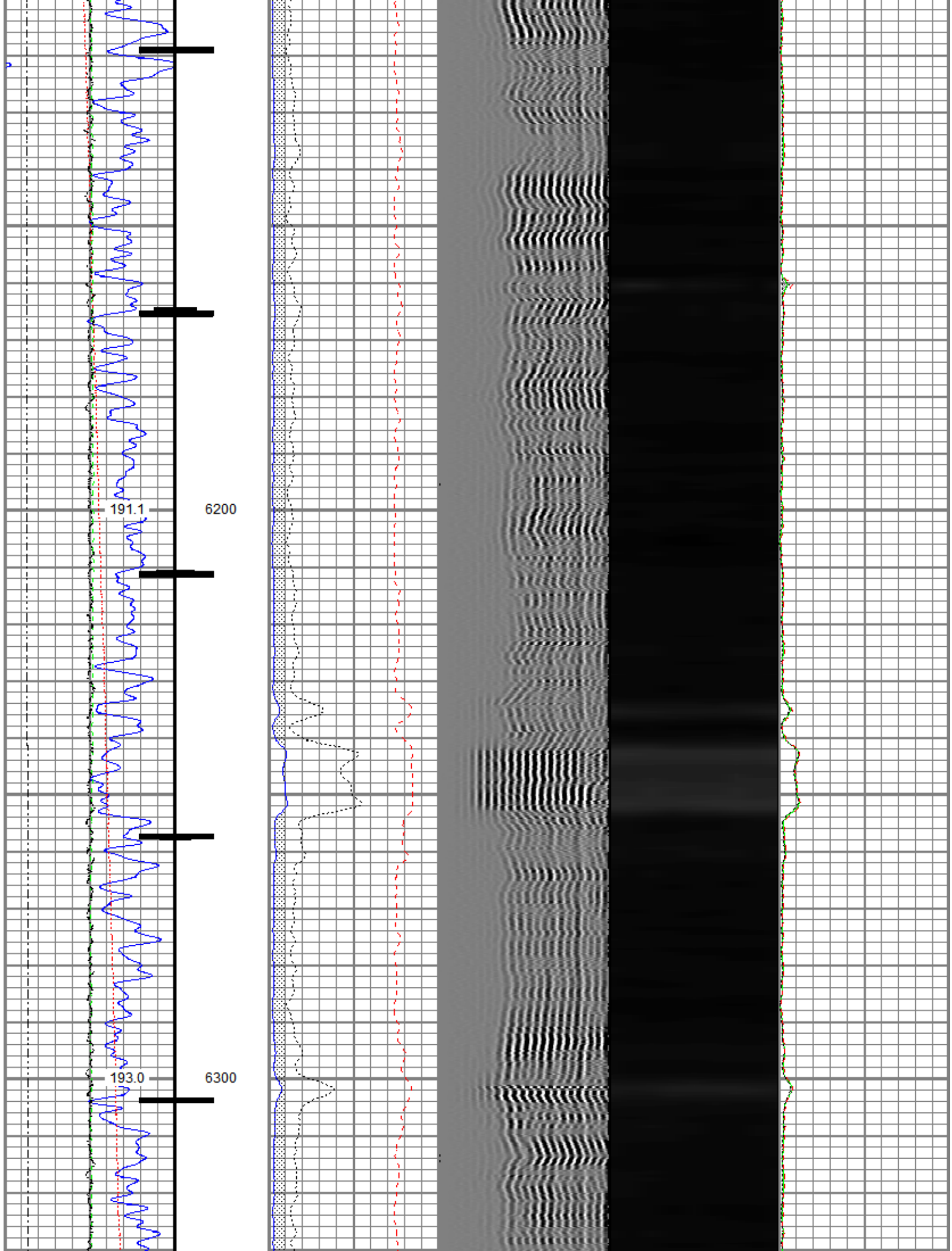


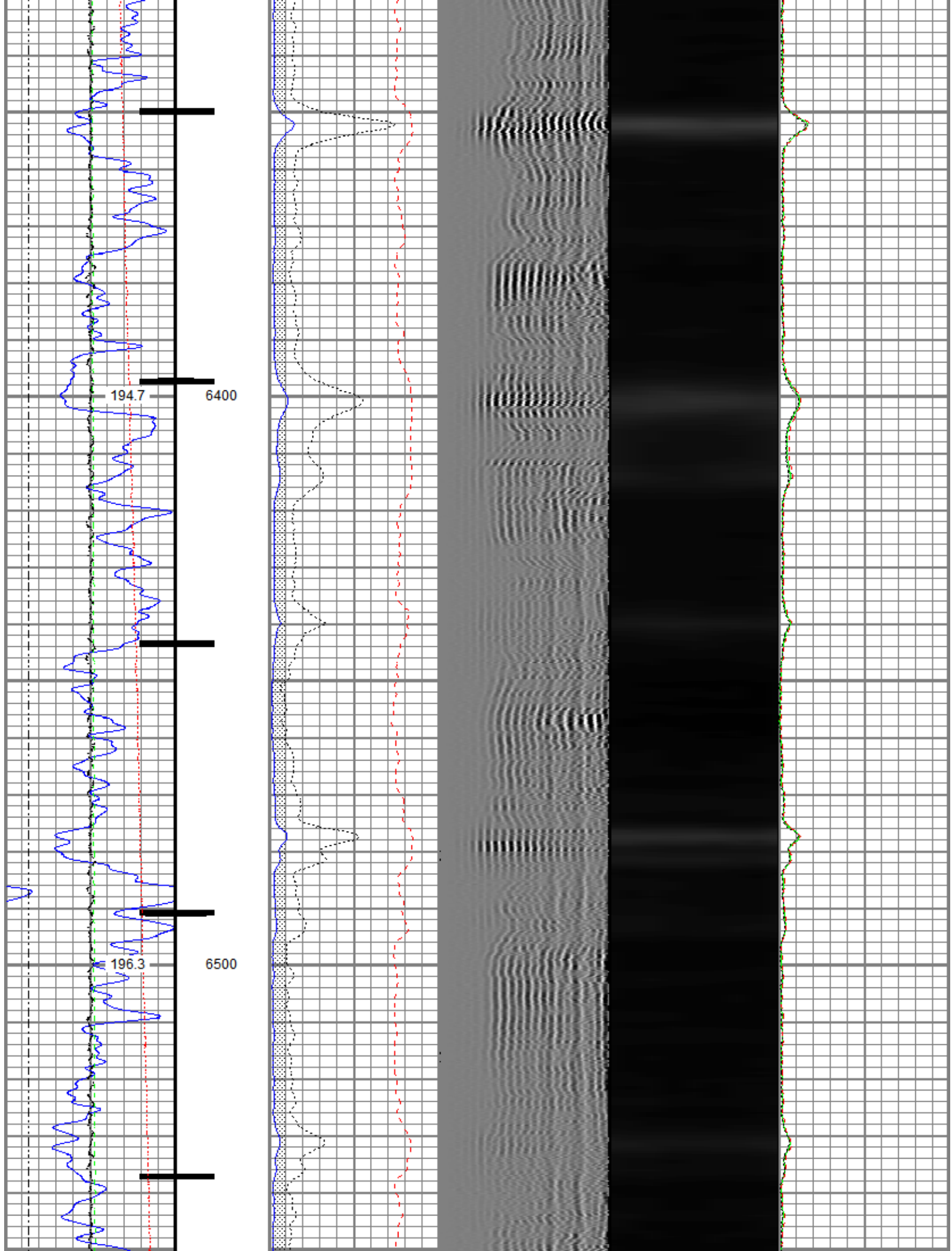


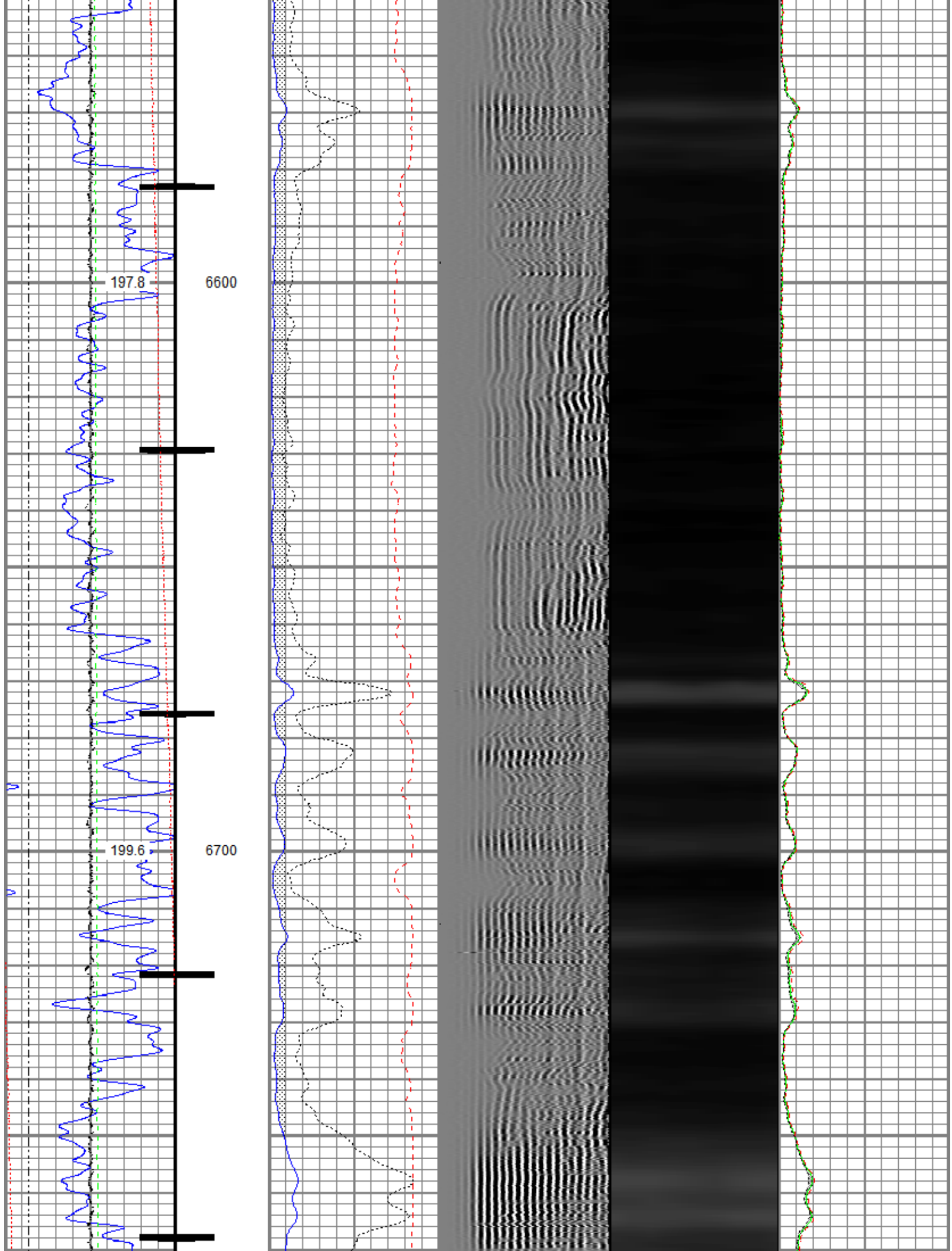


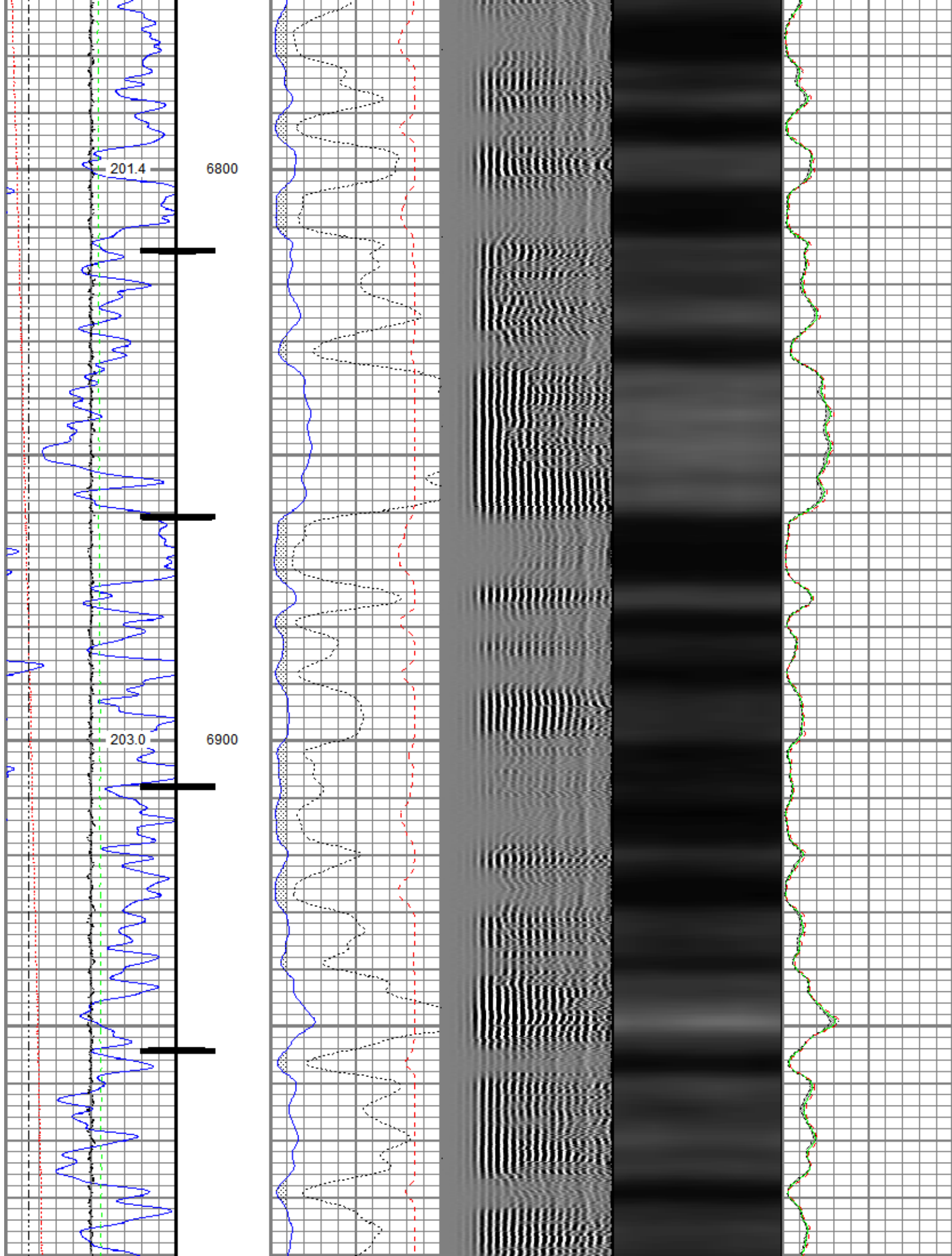


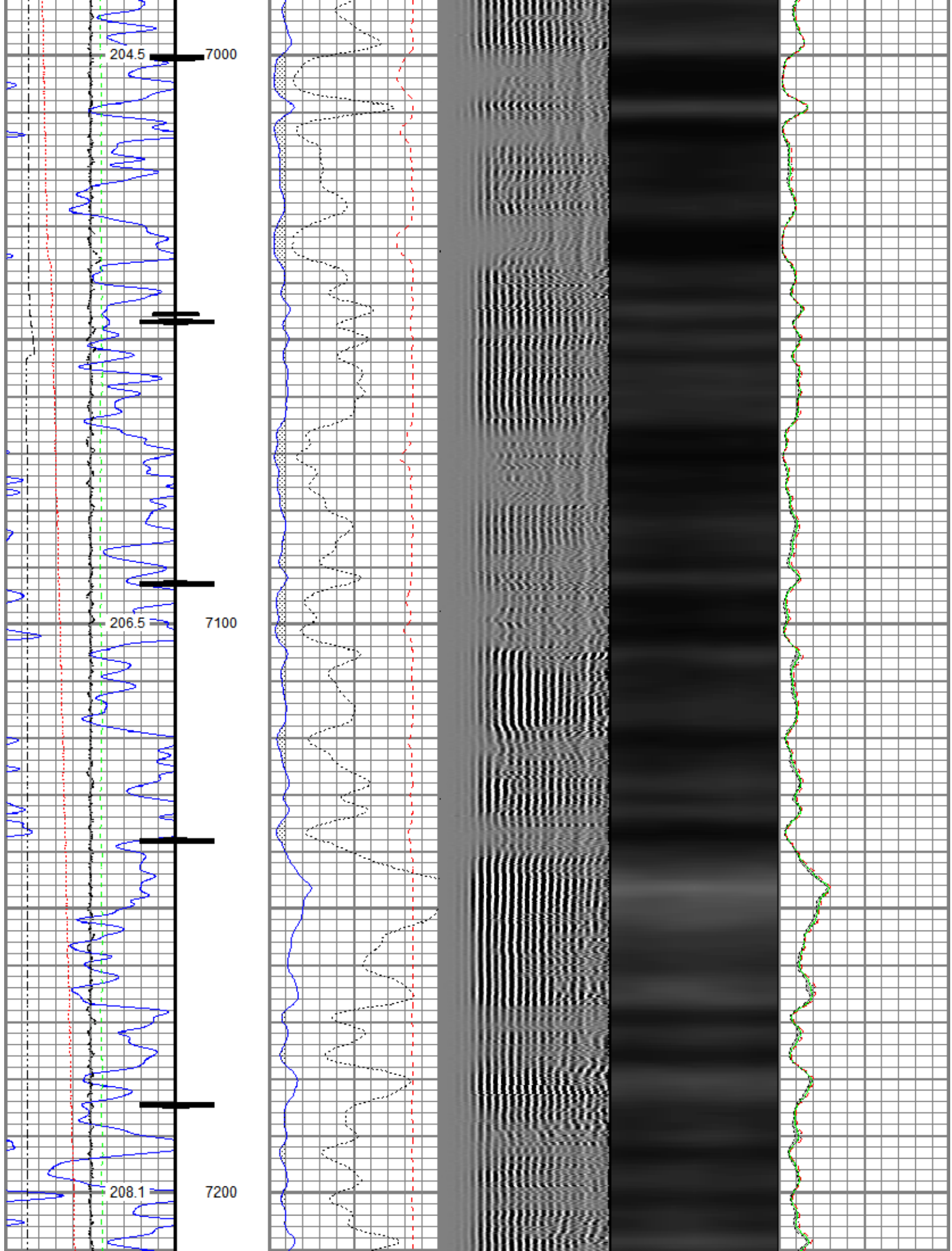


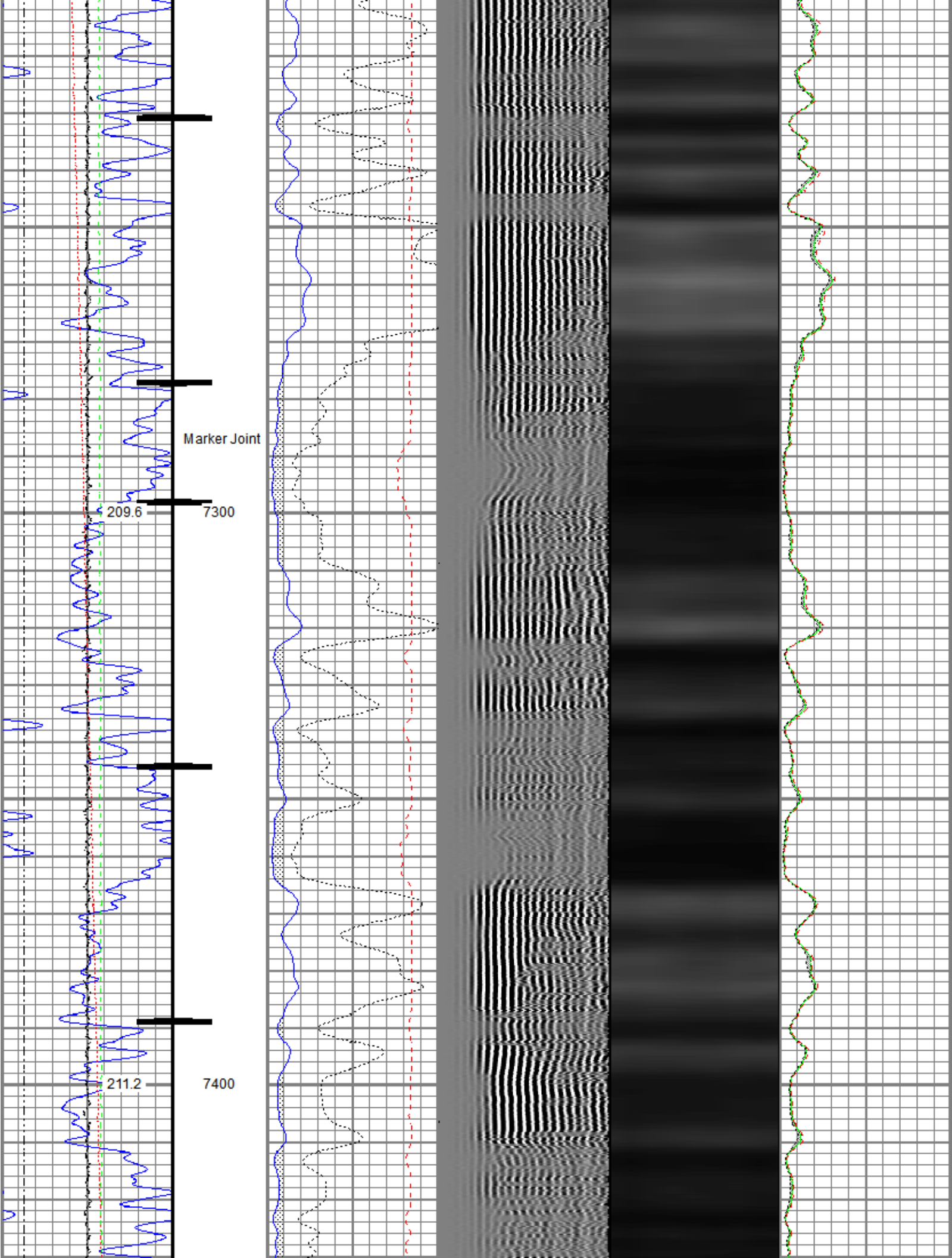


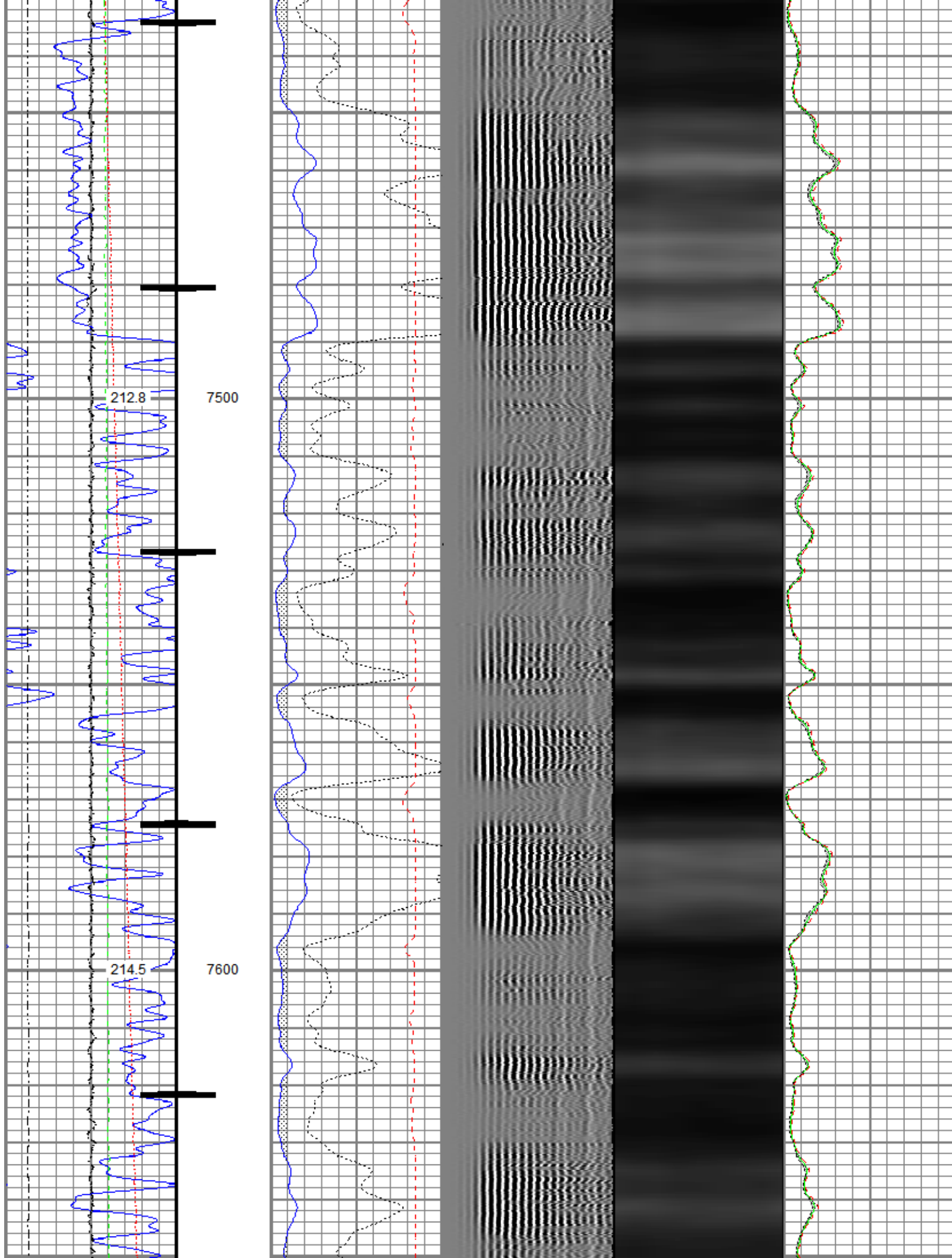


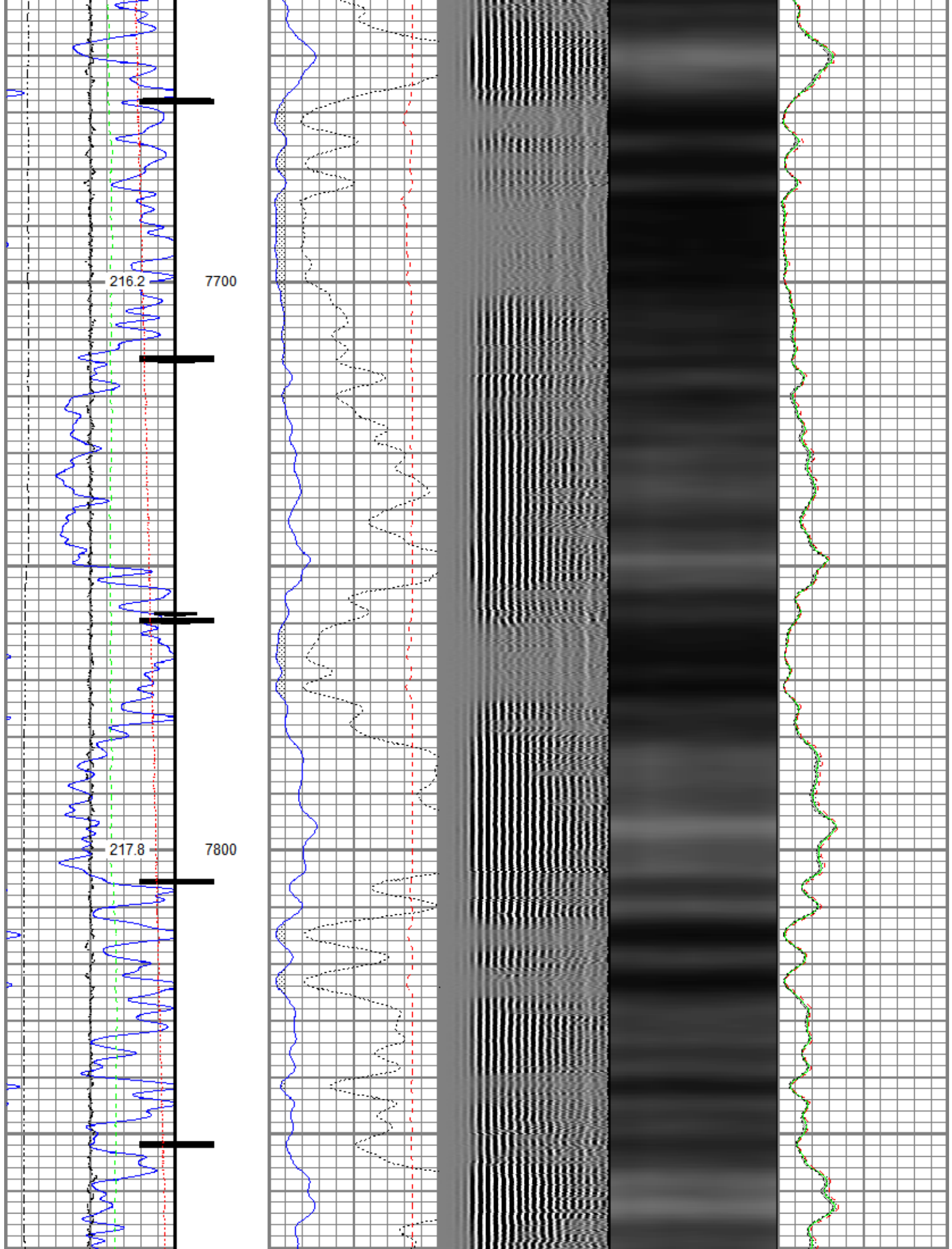


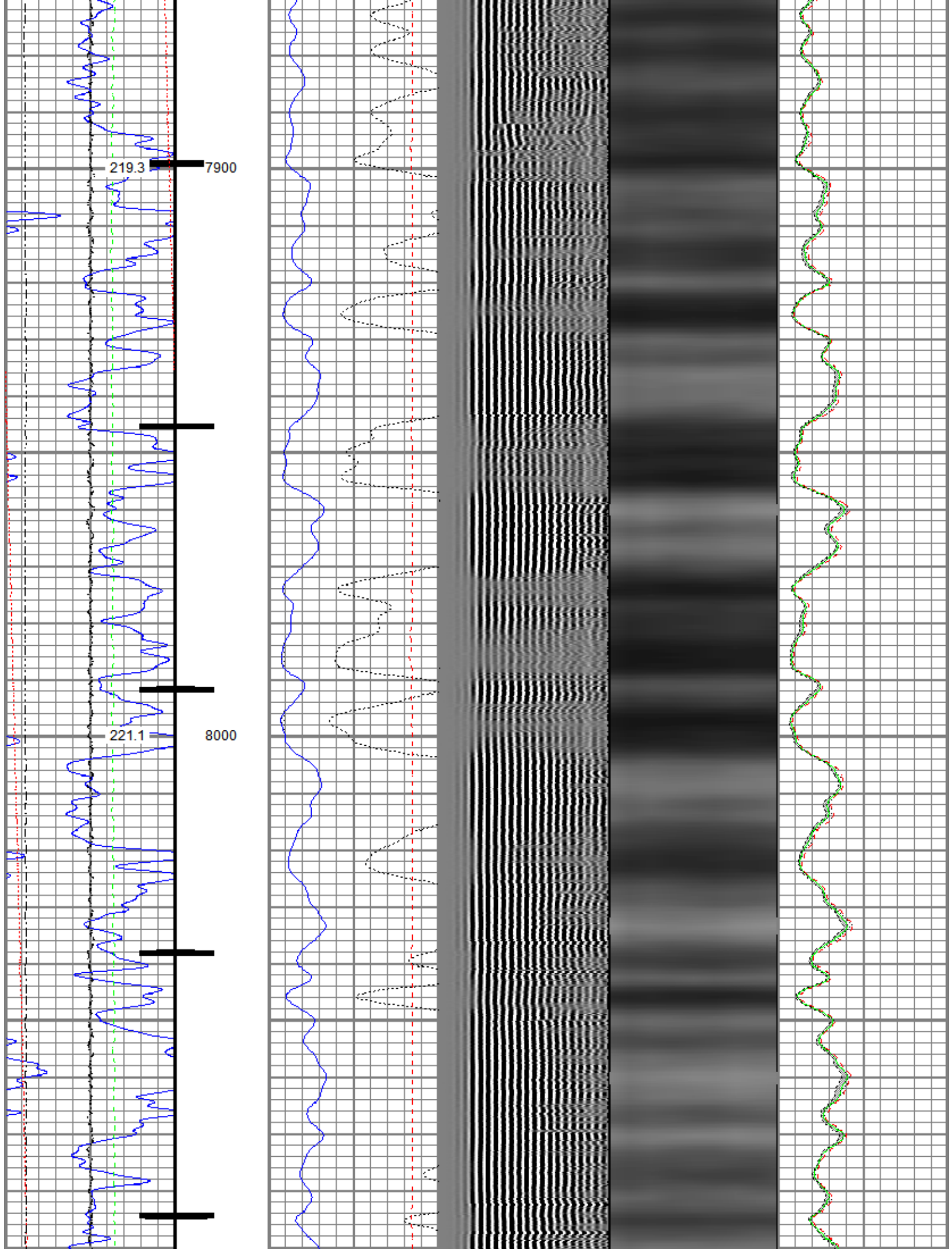


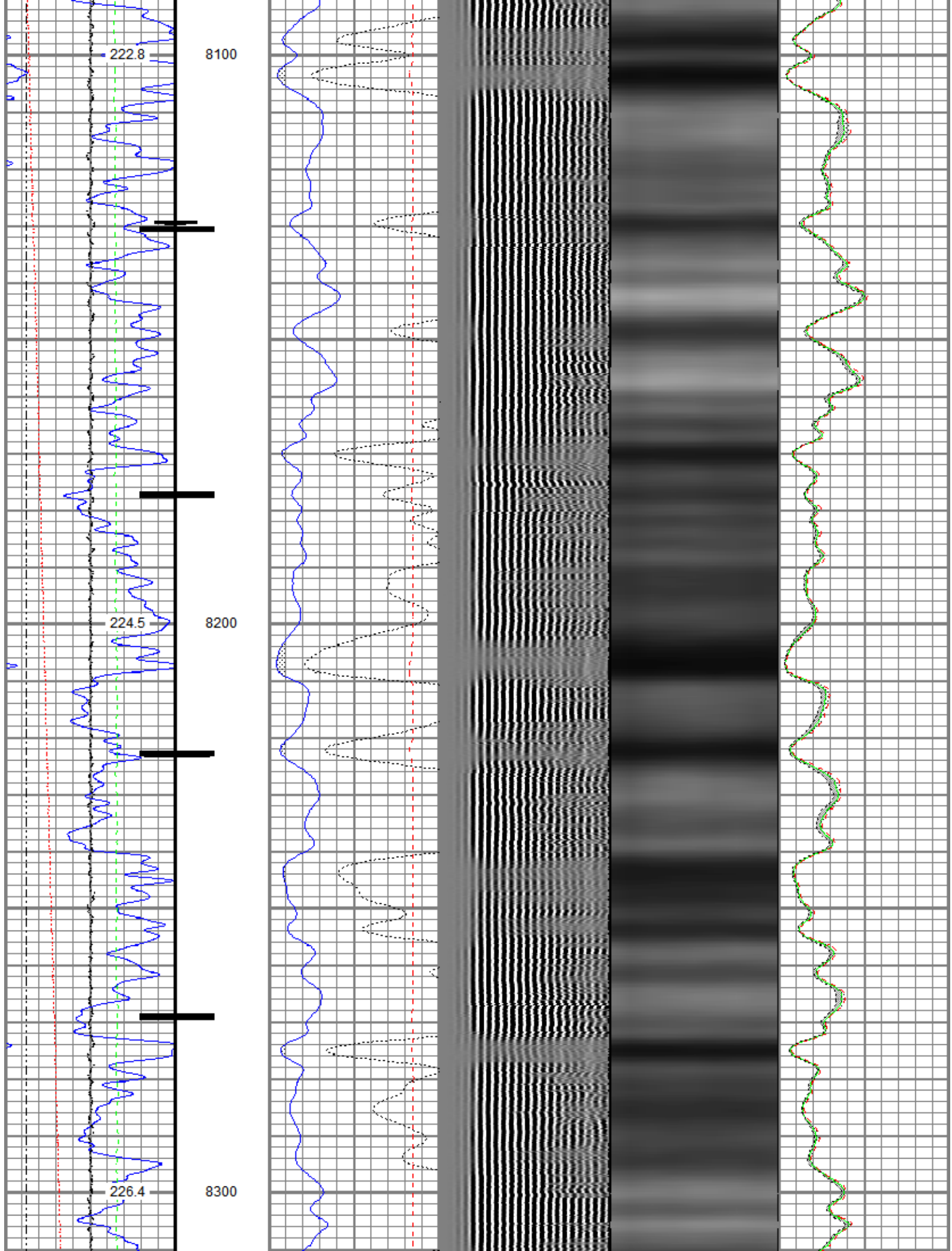


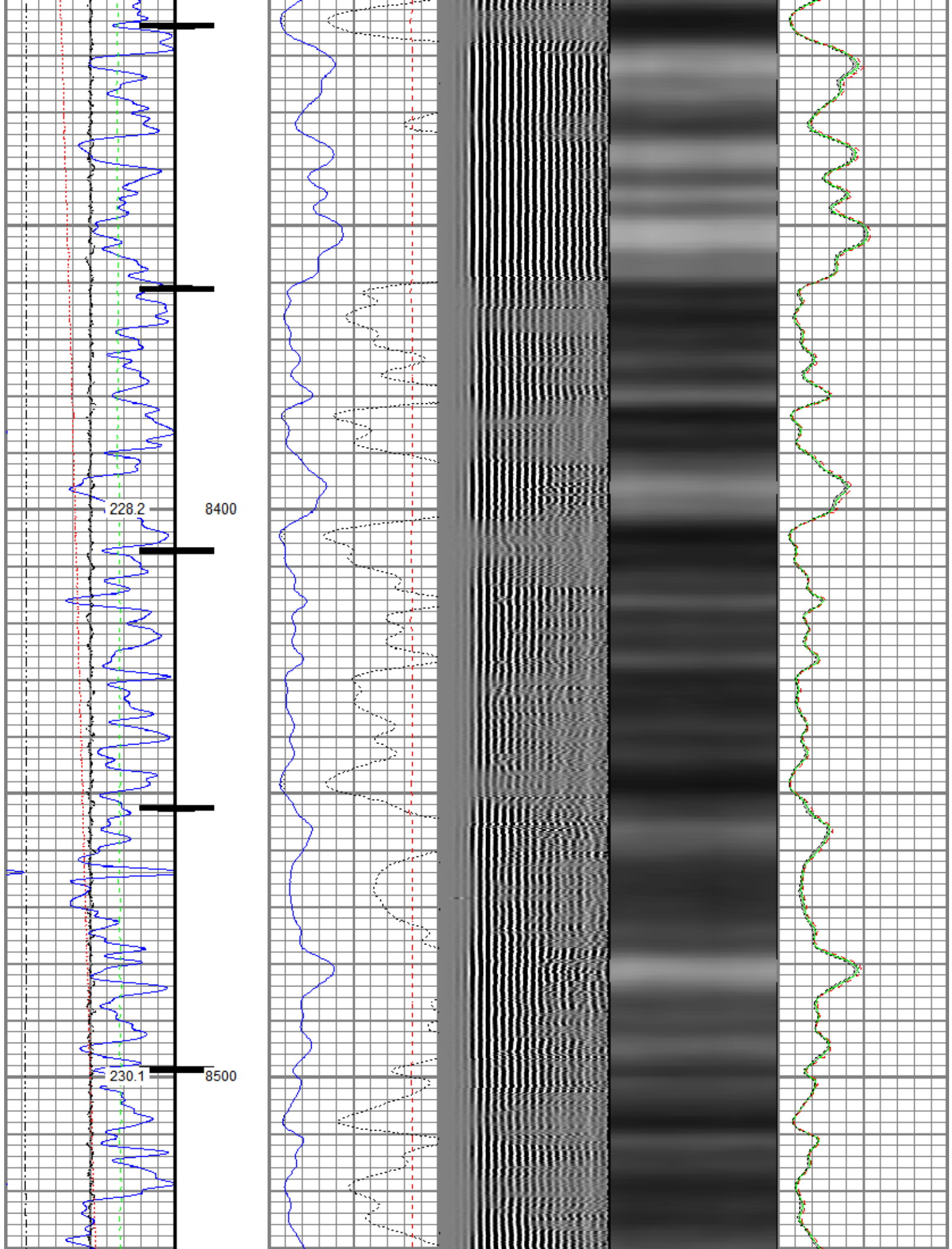


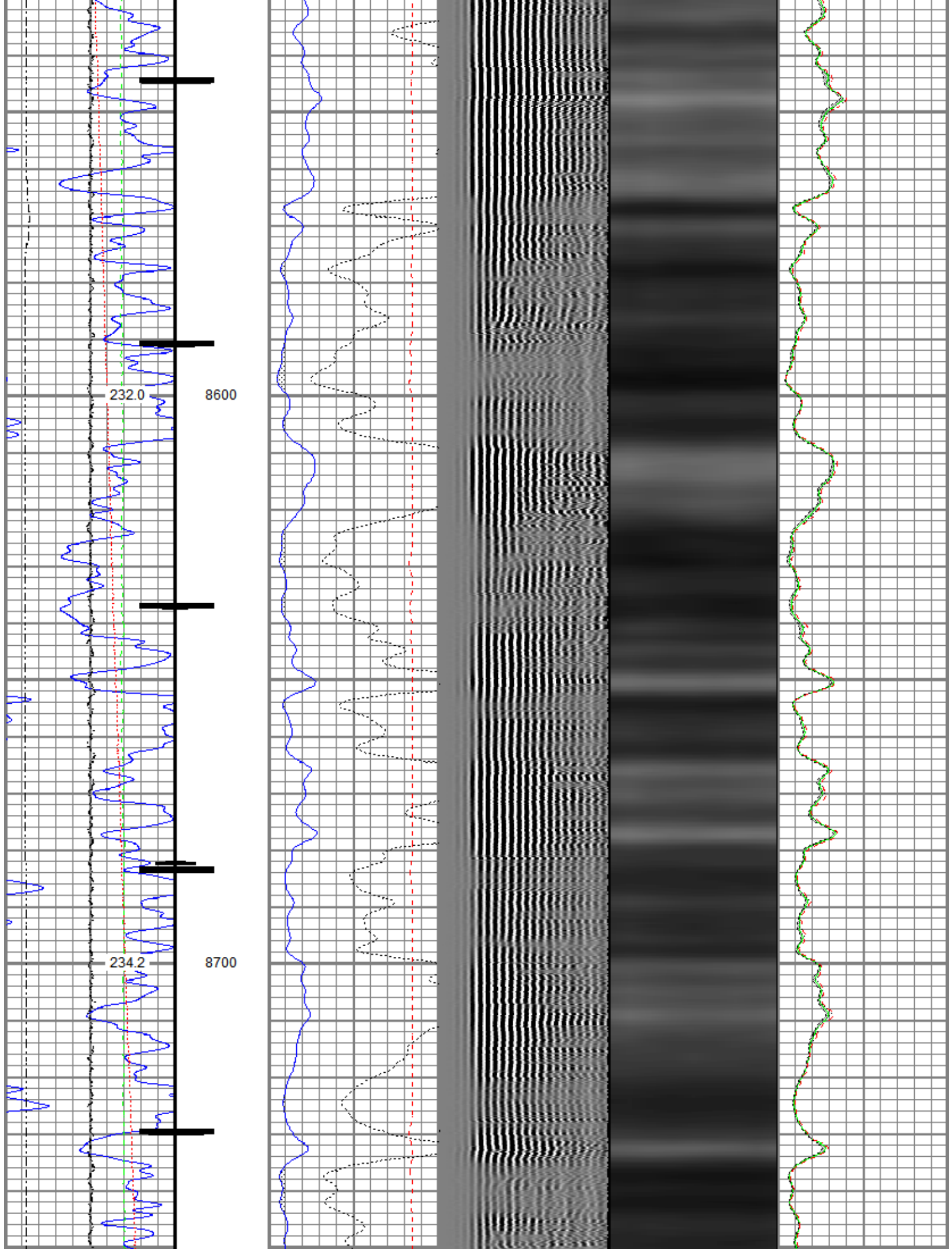


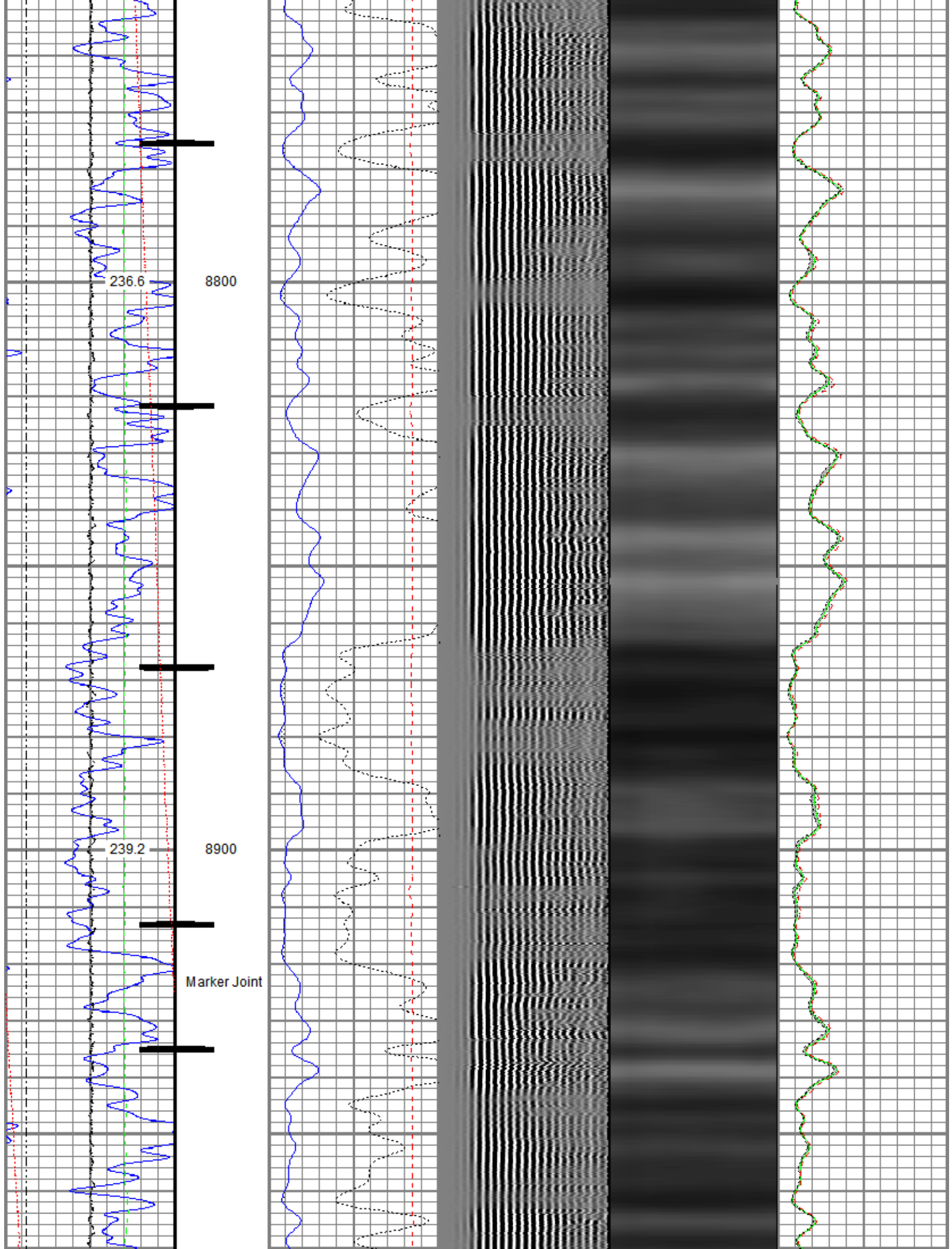


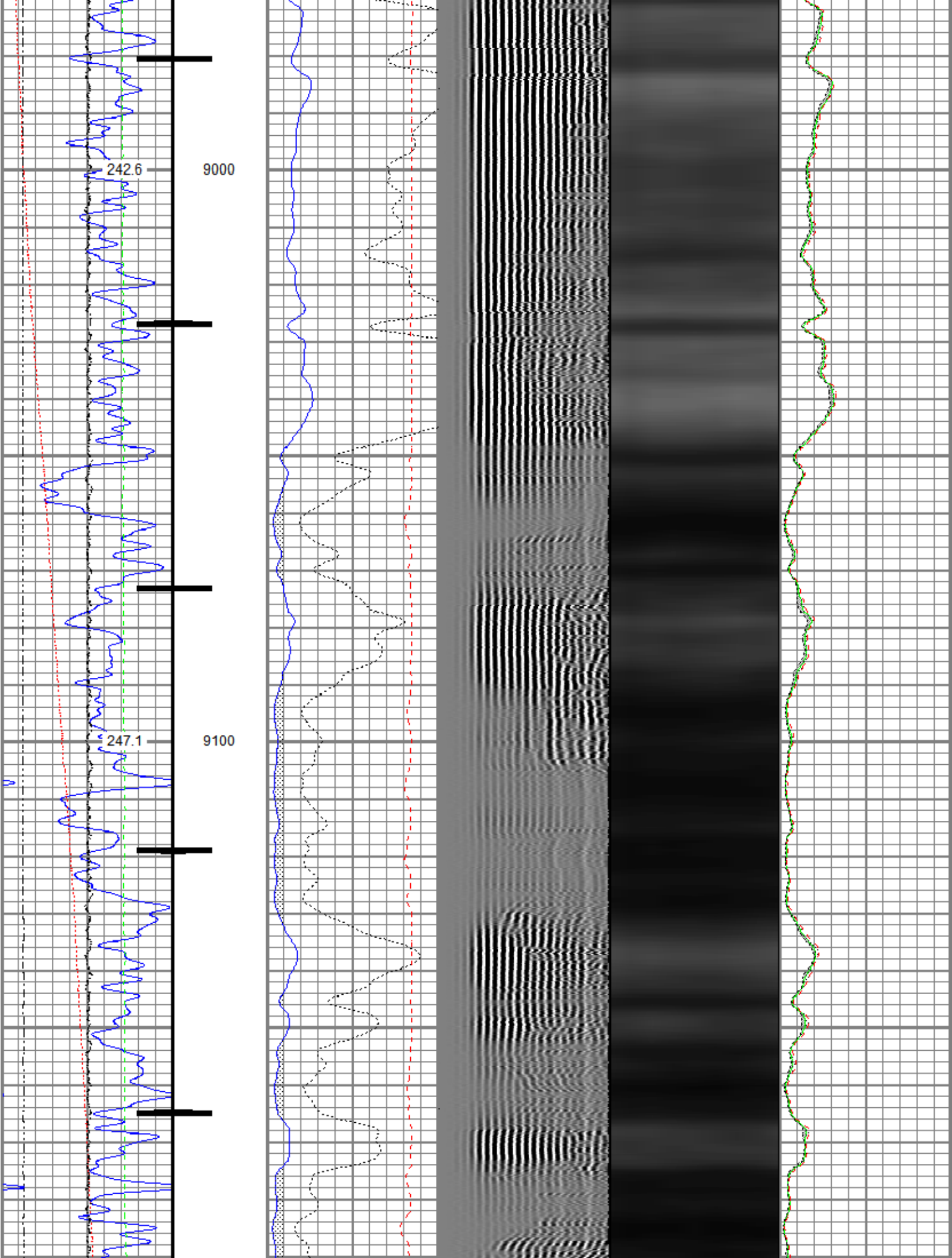


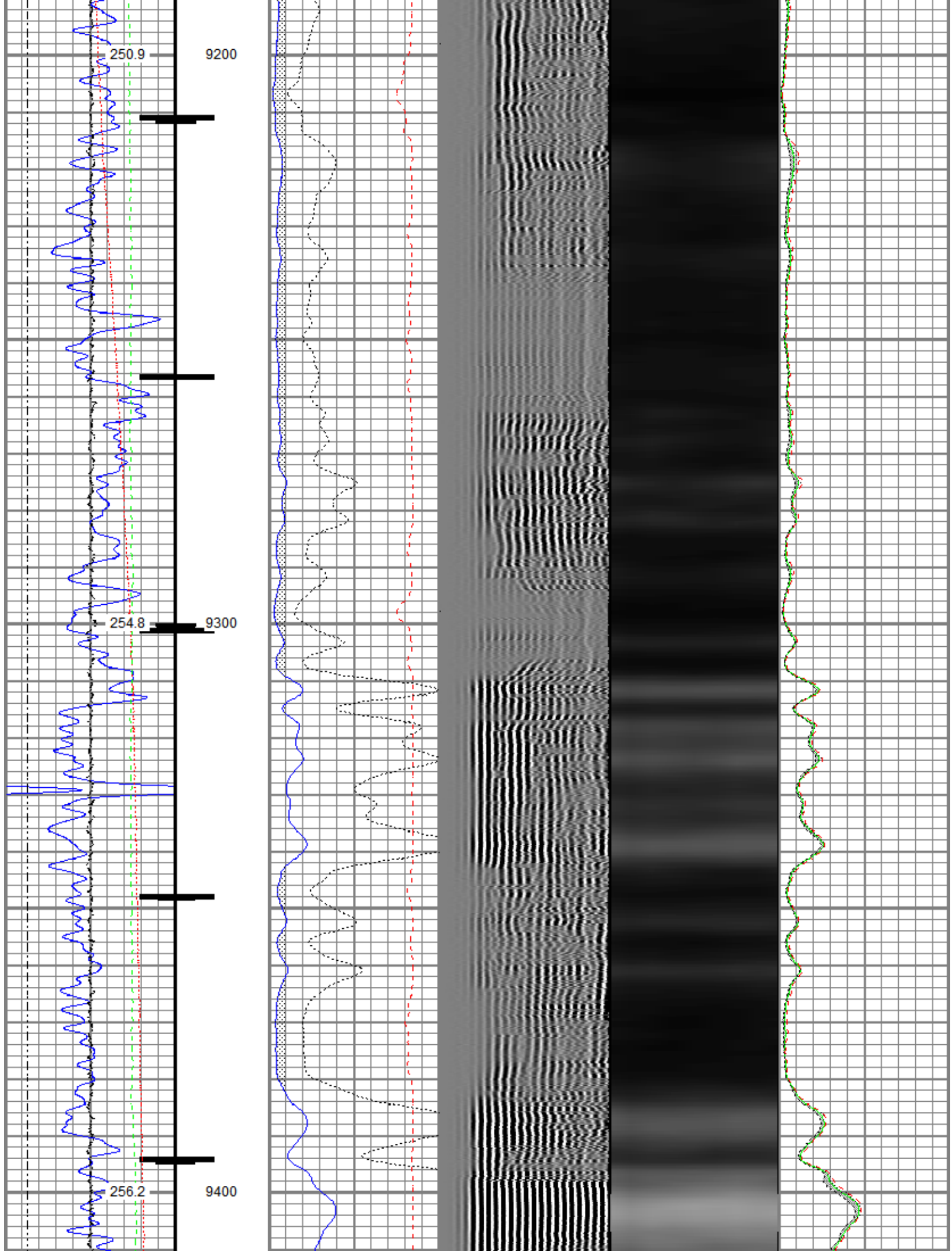


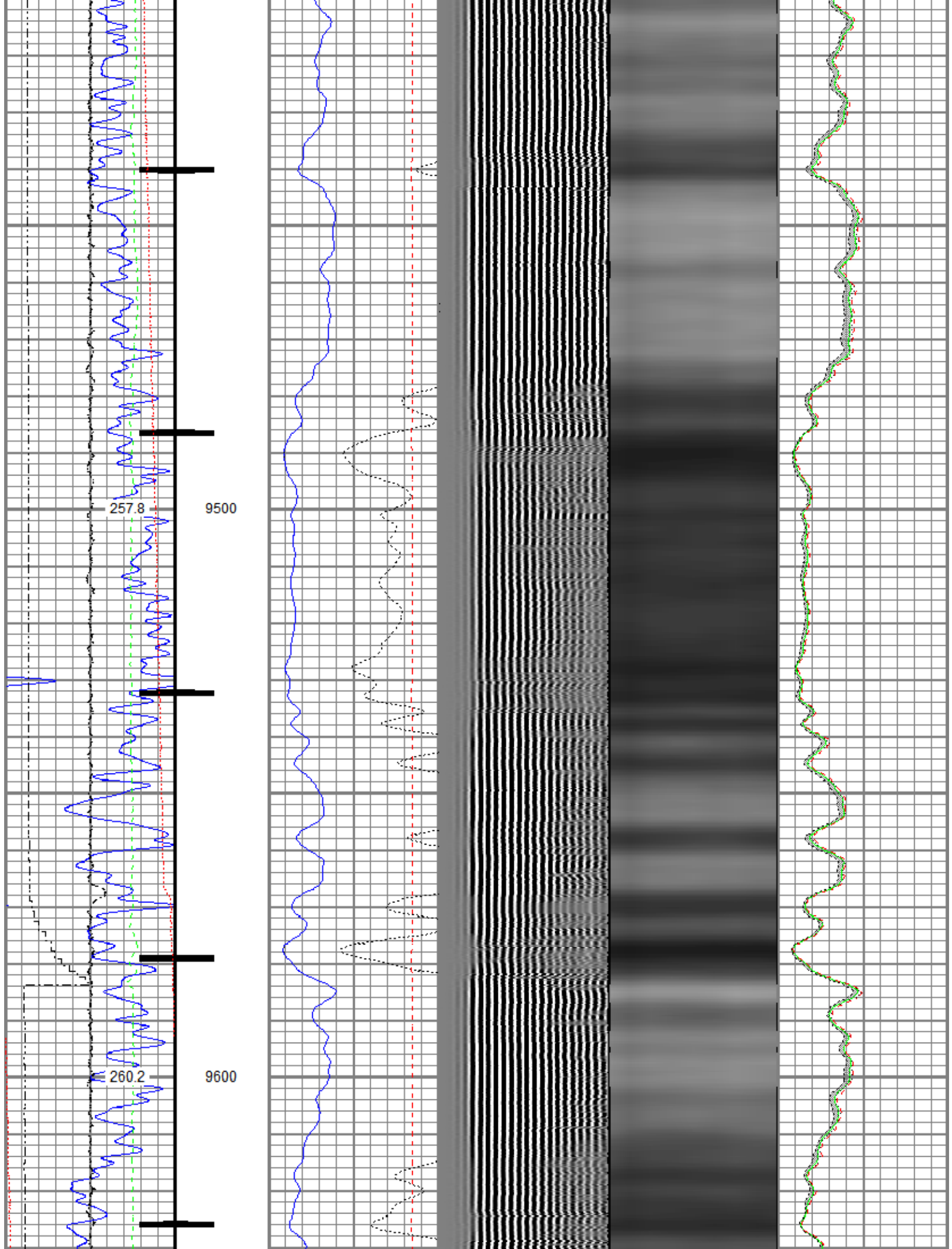


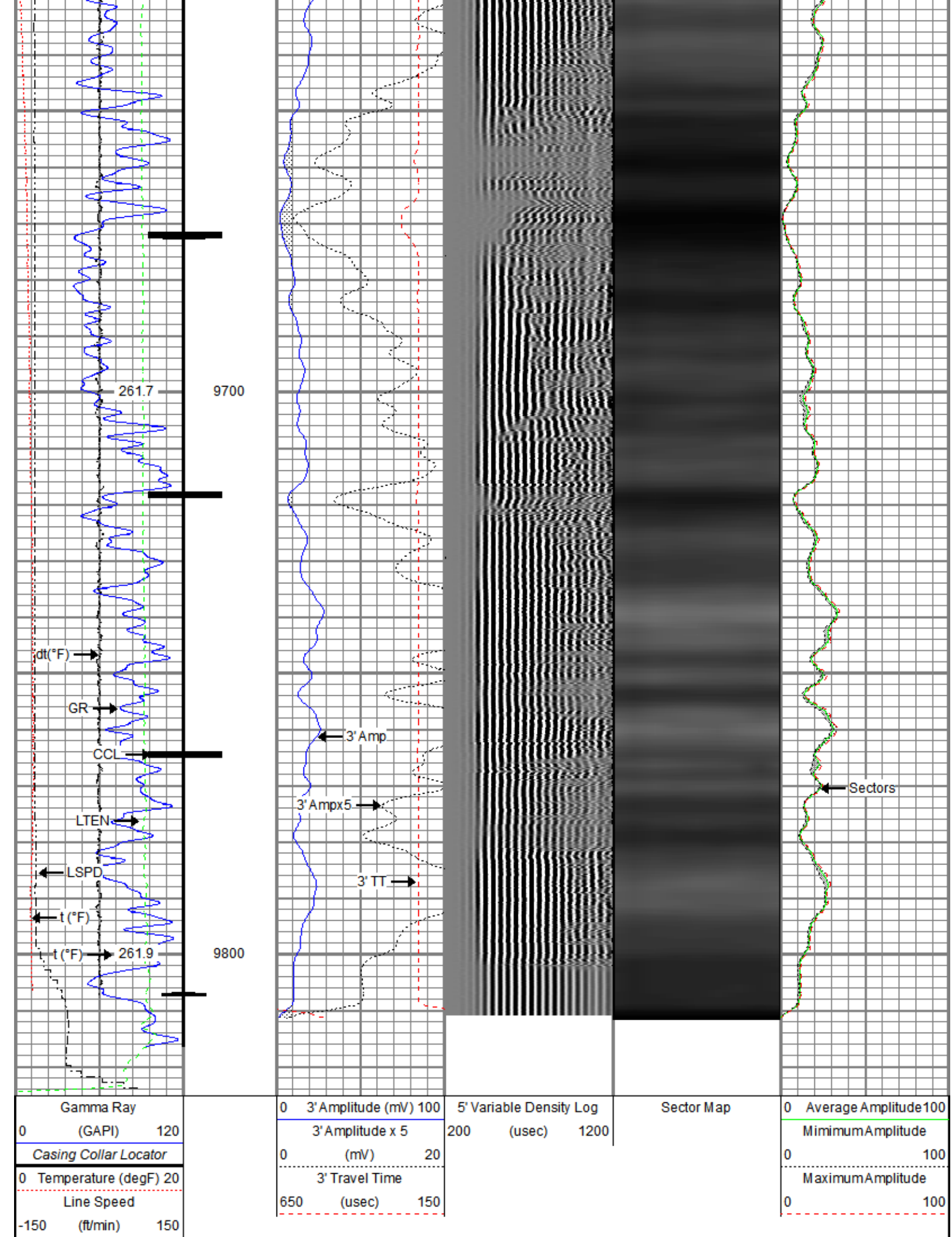













0	Line Tension (lb)2000
	Differential Temperature
-2	(degF)
2	

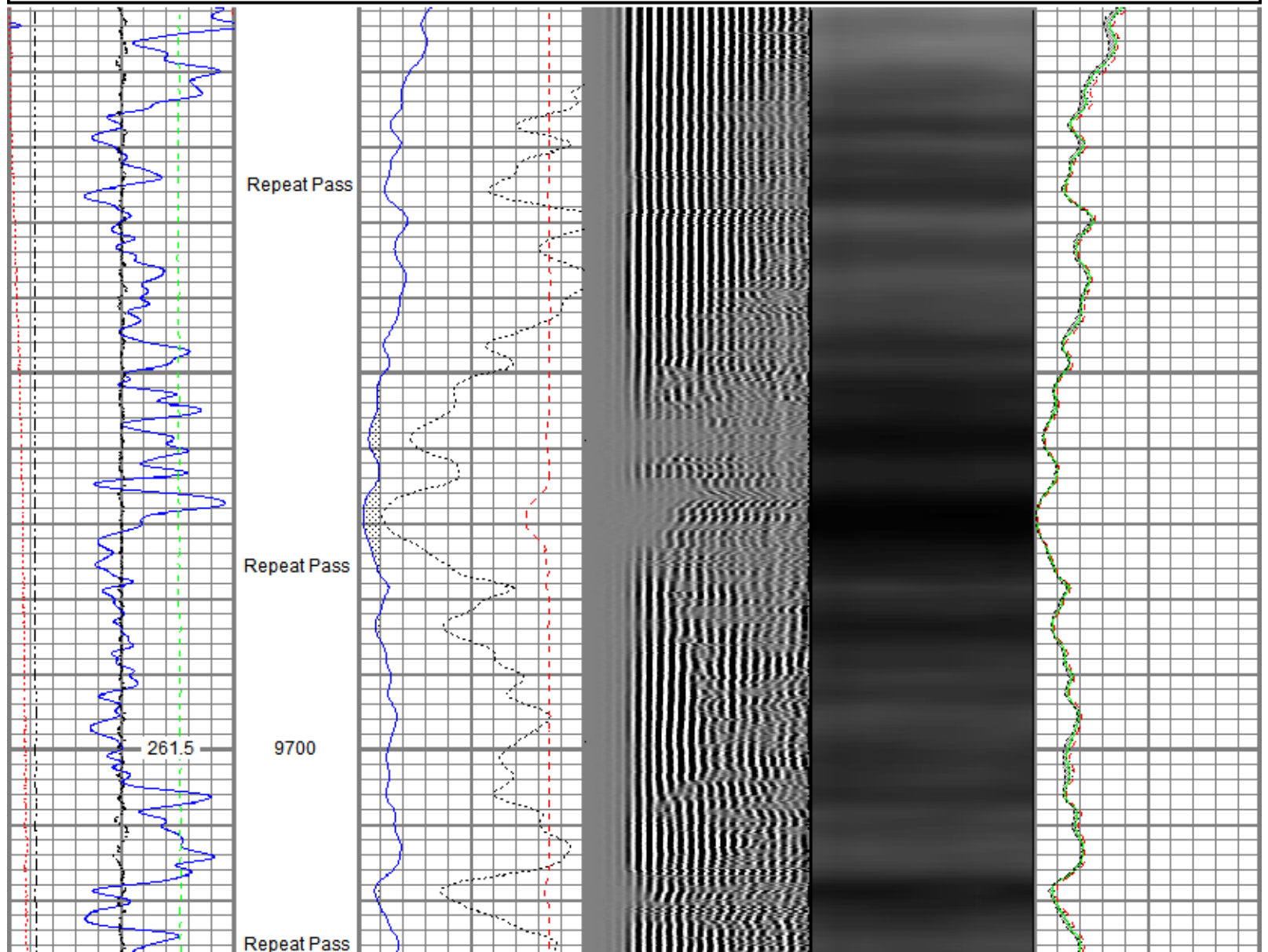


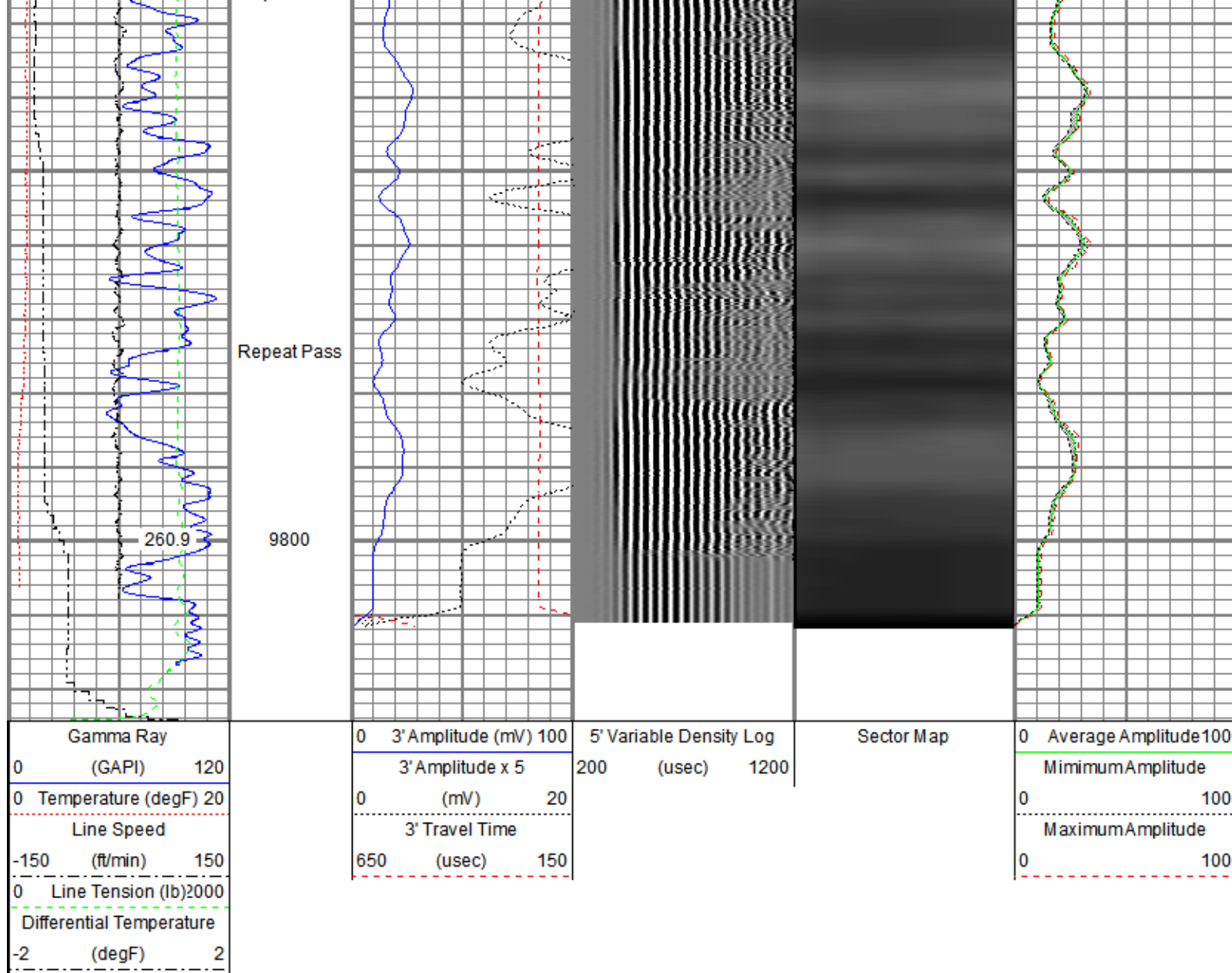
Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

Database File	laramie\laramie energy_cc #0697-04-08e_rbl_07-12-19\processed_laramie energy_cc #0697-04-08e_rbl_07-12-19.db
Dataset Pathname	repeat.2
Presentation Format	ros_radri
Dataset Creation	Mon Jul 15 11:15:53 2019
Charted by	Depth in Feet scaled 1:240

Gamma Ray		0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude100
0	(GAPI)	120	3' Amplitude x 5	200	(usec)	1200	MinimumAmplitude
0	Temperature (degF) 20		0	(mV)	20		0
	Line Speed			3' Travel Time			MaximumAmplitude
-150	(ft/min)	150	650	(usec)	150		0
0	Line Tension (lb)2000						100
	Differential Temperature						
-2	(degF)	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 w/ 1" Fishing Neck	1.03	1.44	3.60
			DSS RAC-2750 5A GO DSS 2-3/4" Roller 5 Arm Centralizer w/ GO Ends	2.55	2.75	32.00
TEMP	16.33		Probe Radii-2750 RBT (101013) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
WVFS8	14.10					

WVFS7	14.10					
WVFS6	14.10					
WVFS5	14.10					
WVFS4	14.10					
WVFS3	14.10					
WVFS2	14.10					
WVFS1	14.10					
WVFCAL	14.10					
WVF3FT	14.10					
WVF5FT	13.10					
			DSS RAC-2750 5A GO DSS 2-3/4" Roller 5 Arm Centralizer w/ GO Ends	2.55	2.75	32.00
CCL\$2	6.42					
CCL\$1	6.42					
GR	5.18	Probe GR-CCL-2750 GOB (FW1307-038) Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined	4.51	2.75	55.00	
		DSS RAC-2750 5A GO DSS 2-3/4" Roller 5 Arm Centralizer w/ GO Ends	2.55	2.75	32.00	
		GO BN-14375 GO 1-7/16" Bull Nose with Go Box Top	0.25	1.44	1.00	
Dataset: processed_laramie energy_cc #0697-04-08e_rbl_07-12-19.db: field/well/run1/main.9						
Total length: 22.82 ft						
Total weight: 260.60 lb						
O.D.: 2.75 in						

Calibration Report	
Database File	c:\programdata\warrior\data\laramie\laramie energy_cc #0697-04-08e_rbl_07-12-19\processed_laramie energy_cc #0697-04-08
Dataset Pathname	main.9
Dataset Creation	Mon Jul 15 11:15:02 2019

Serial Number:	FW1307-038	
Tool Model:	2750 GOB	
Performed:	Sun Nov 12 12:44:12 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	113.2	cps
Calibrator Reading:	1022.4	cps
Sensitivity:	0.7007	GAPI/cps

Serial Number:	101013	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	34.414	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.002	0.940	0.800	81.196	85.316	0.966
CAL	0.003	0.745				
5'	0.006	0.799	0.800	81.196	101.394	0.224
SUM						
S1	0.000	1.088	0.000	100.000	91.969	-0.039
S2	0.000	1.001	0.000	100.000	99.932	-0.040
S3	0.001	0.934	0.000	100.000	107.102	-0.075
S4	0.001	0.869	0.000	100.000	115.182	-0.129
S5	0.001	0.861	0.000	100.000	116.289	-0.139
S6	0.001	0.870	0.000	100.000	115.116	-0.095
S7	0.001	0.917	0.000	100.000	109.149	-0.092
S8	0.001	1.015	0.000	100.000	98.614	-0.120

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.745	1.000	0.000

Air Zero Calibration, performed Fri Jul 12 10:32:15 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: 101013
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:21:13 2017

	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 0697-04-08E
Field: Grand Valley
County: Garfield

	State	Colorado
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