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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.

Log ran as per customer request
Depth referenced to Casing Tally reported Marker Joint at 6760 FT
Adjusted +1 FT to correlate with Marker Joint
Gauge Ring/Junk Basket ran to 7759 FT
Retrievable Bridge Plug set at 6872 FT
Log ran with 0 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations

Thank you for choosing Reliance Oilfield Services, LLC!!

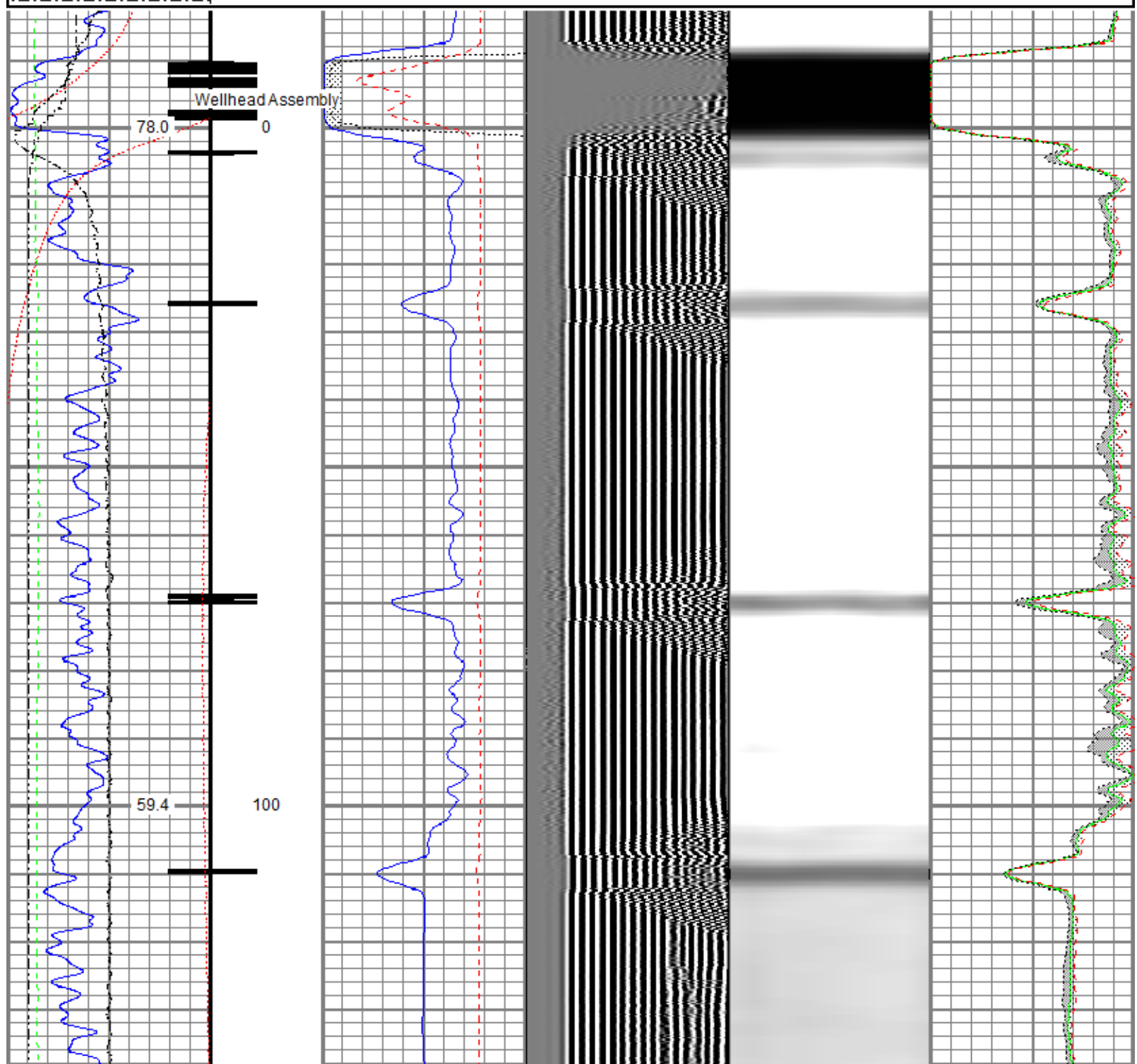
Main Pass

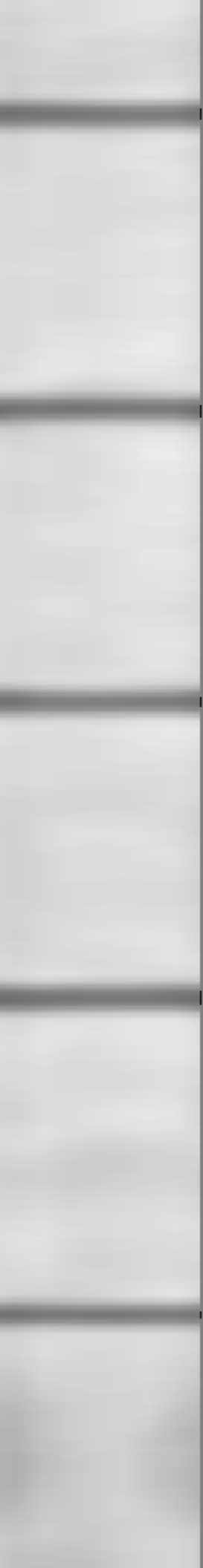
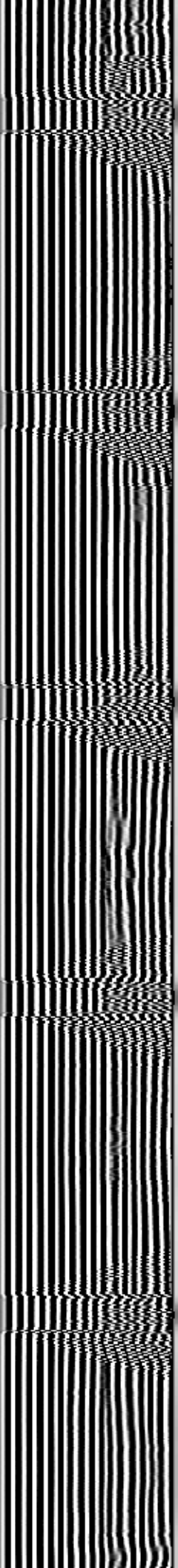
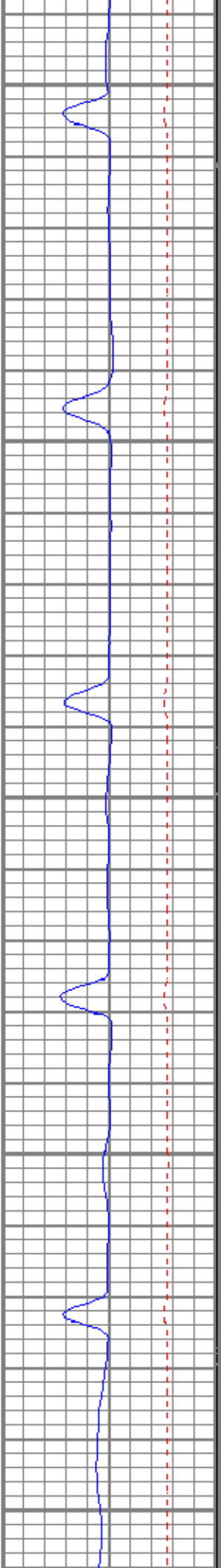
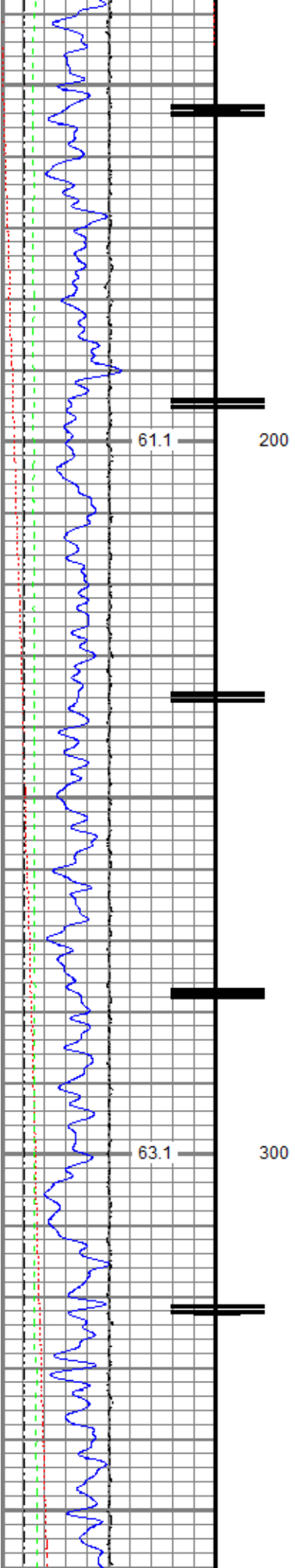


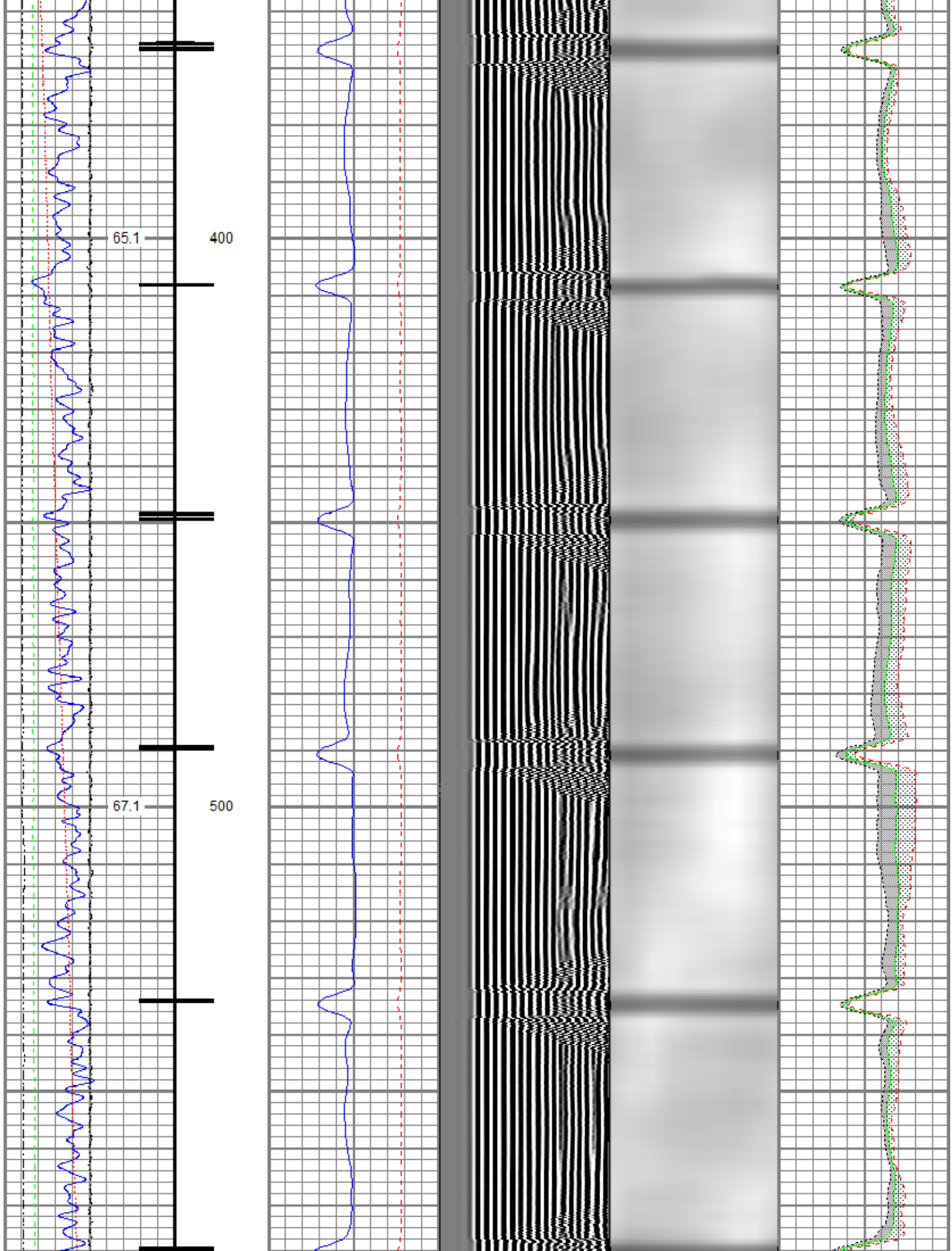
Recorded With 0 PSI Surface-Induced Pressure

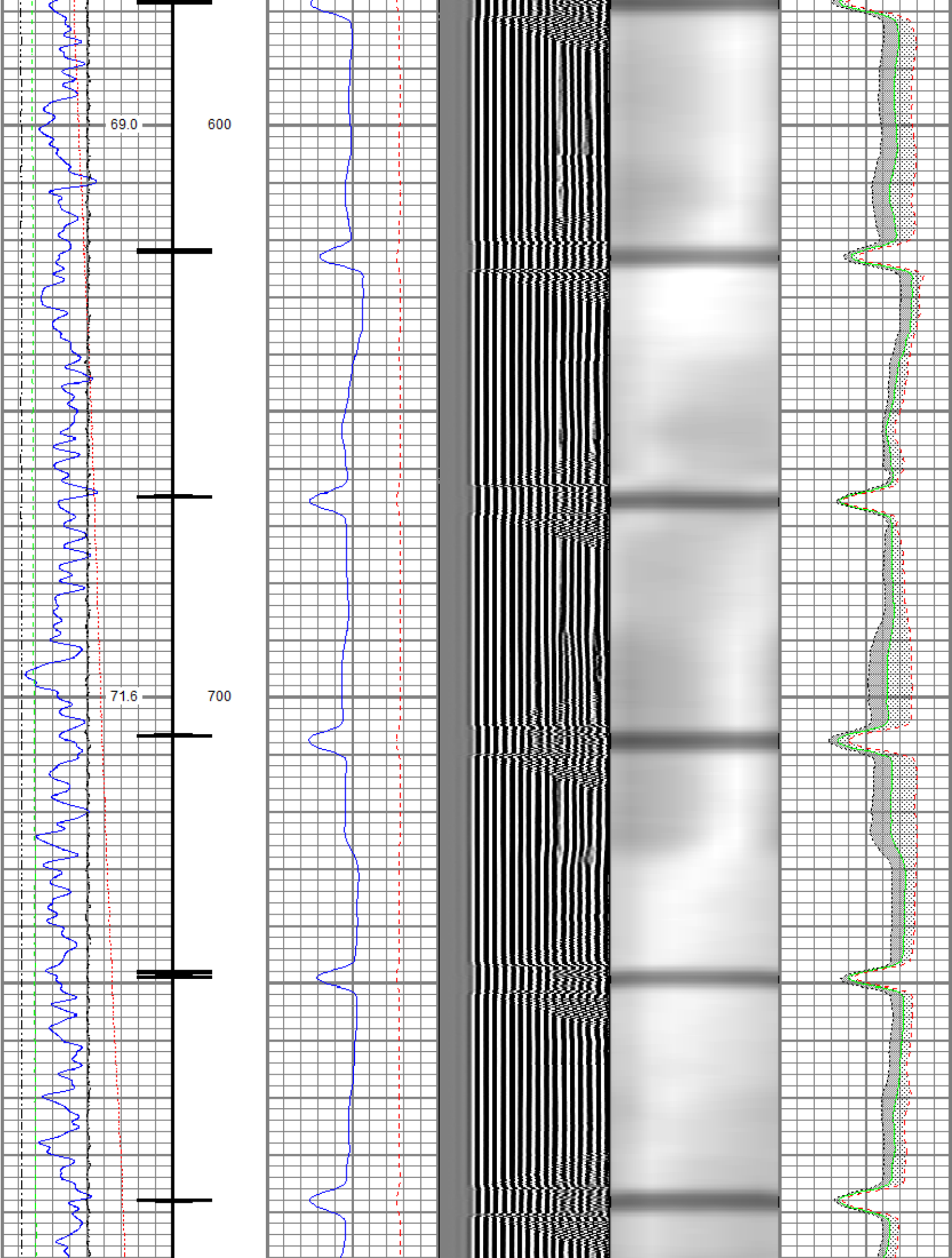
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Dataset Pathname	pass4.3
Presentation Format	ros_radri
Dataset Creation	Fri Jun 21 09:33:11 2019
Charted by	Depth in Feet scaled 1:240

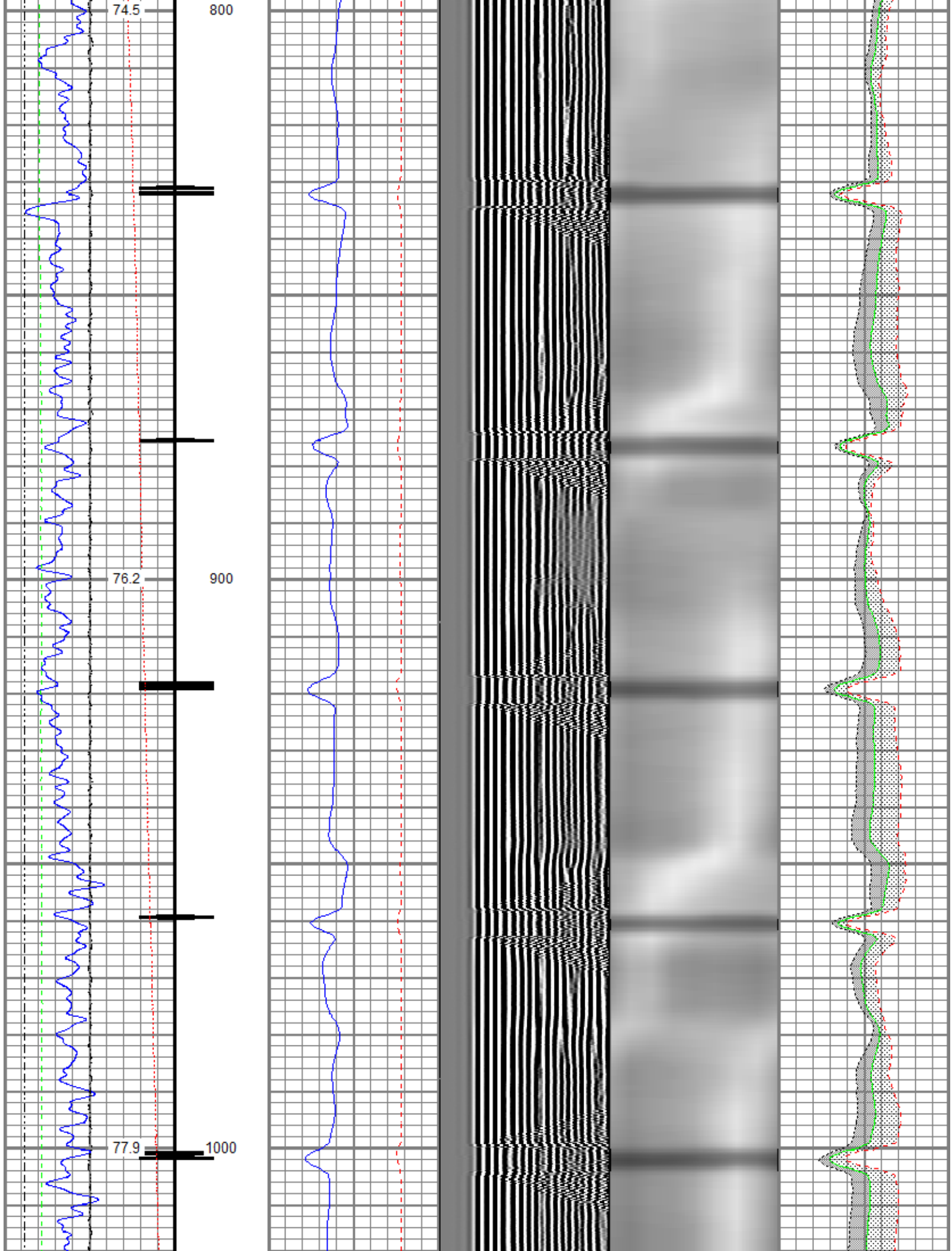
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator		0 (mV) 20			0	100
0 Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed		650 (usec) 150			0	100
-150 (ft/min) 150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

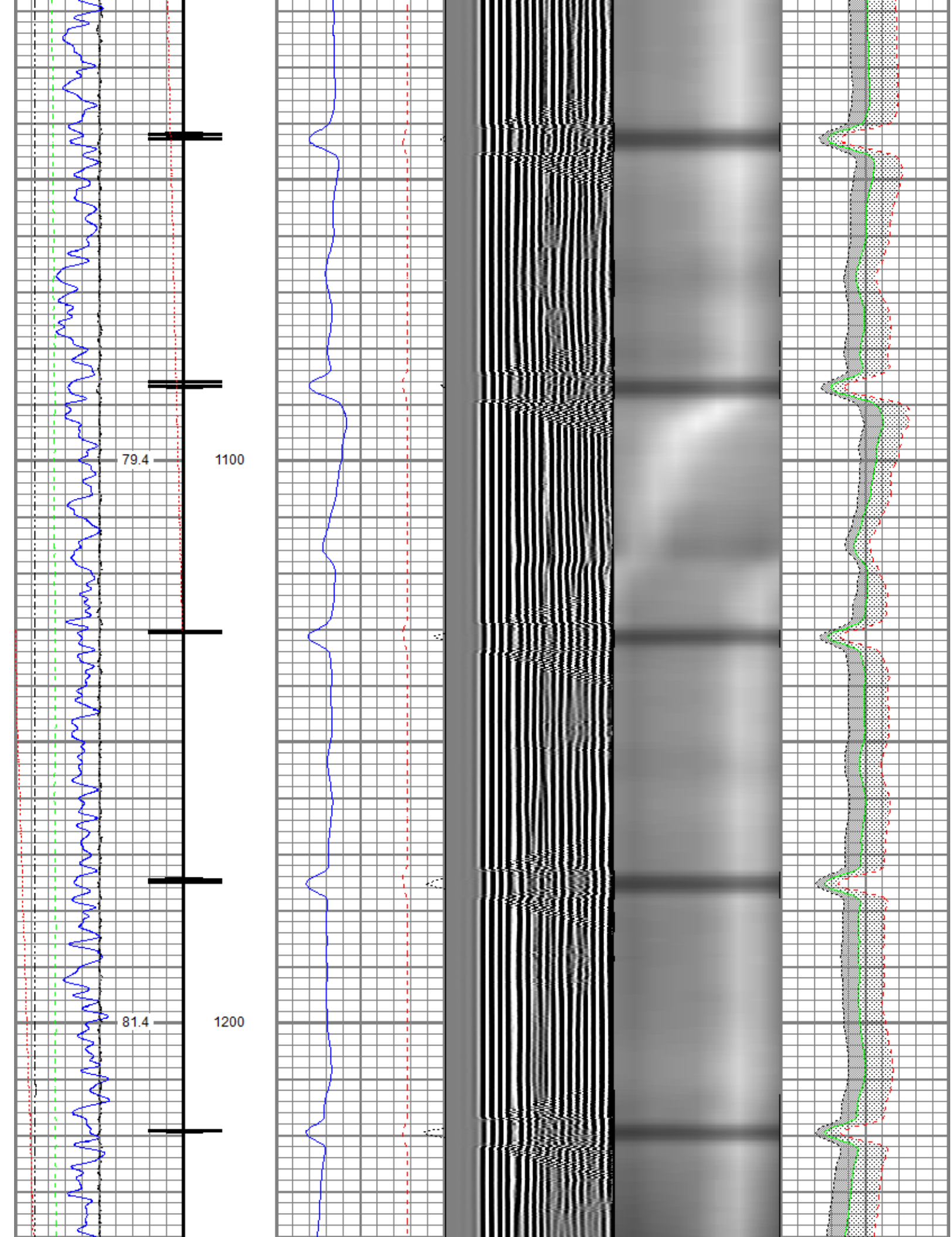


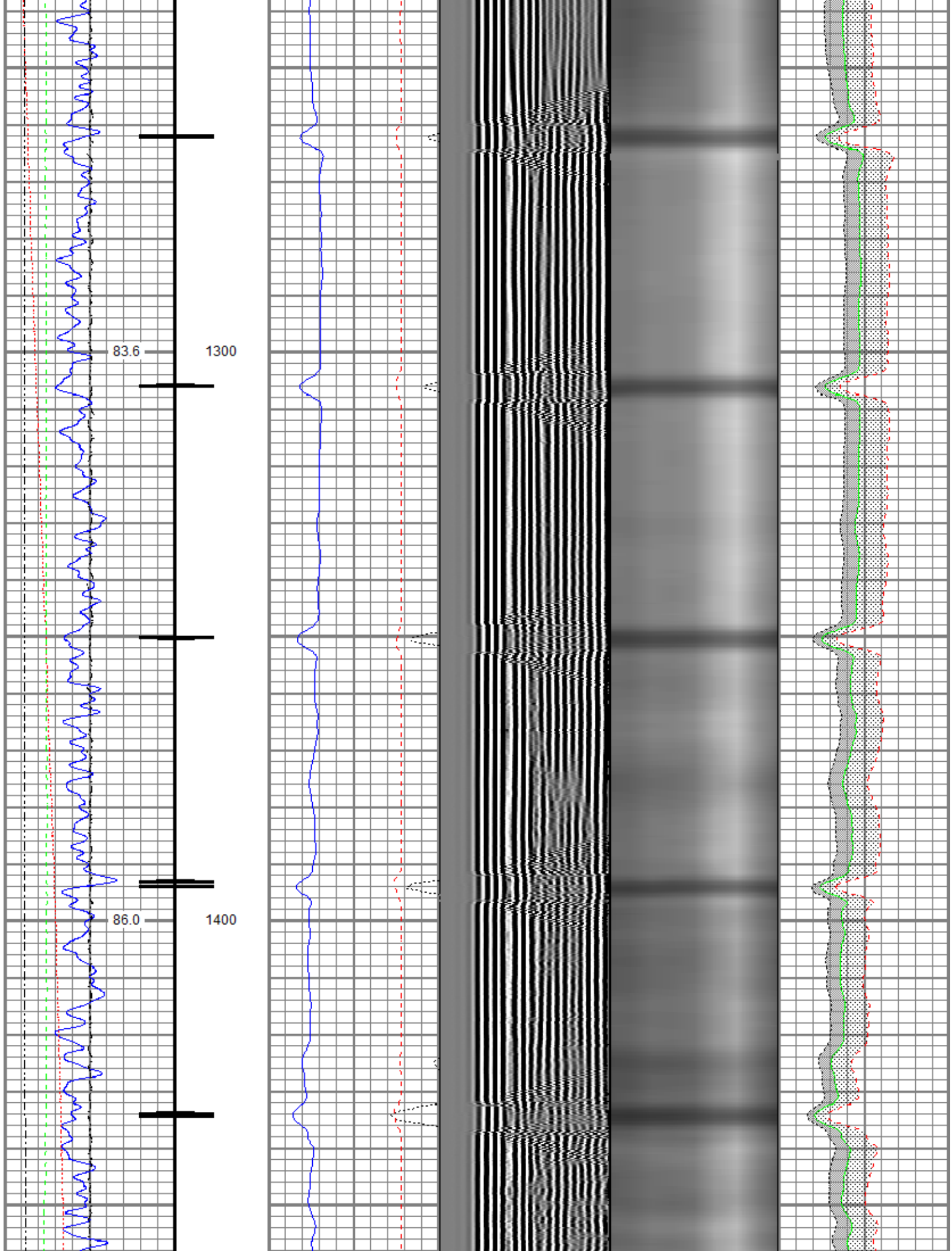


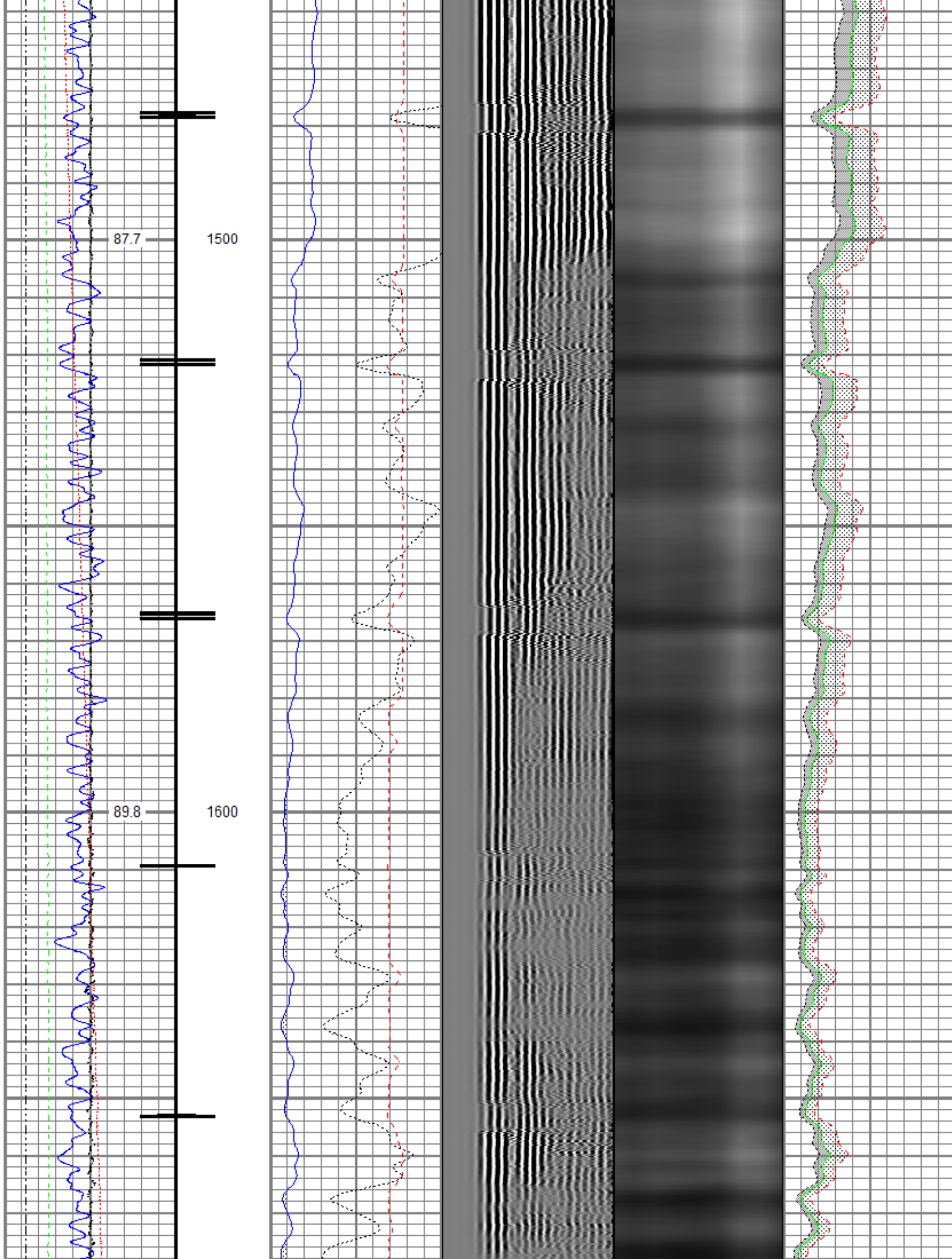


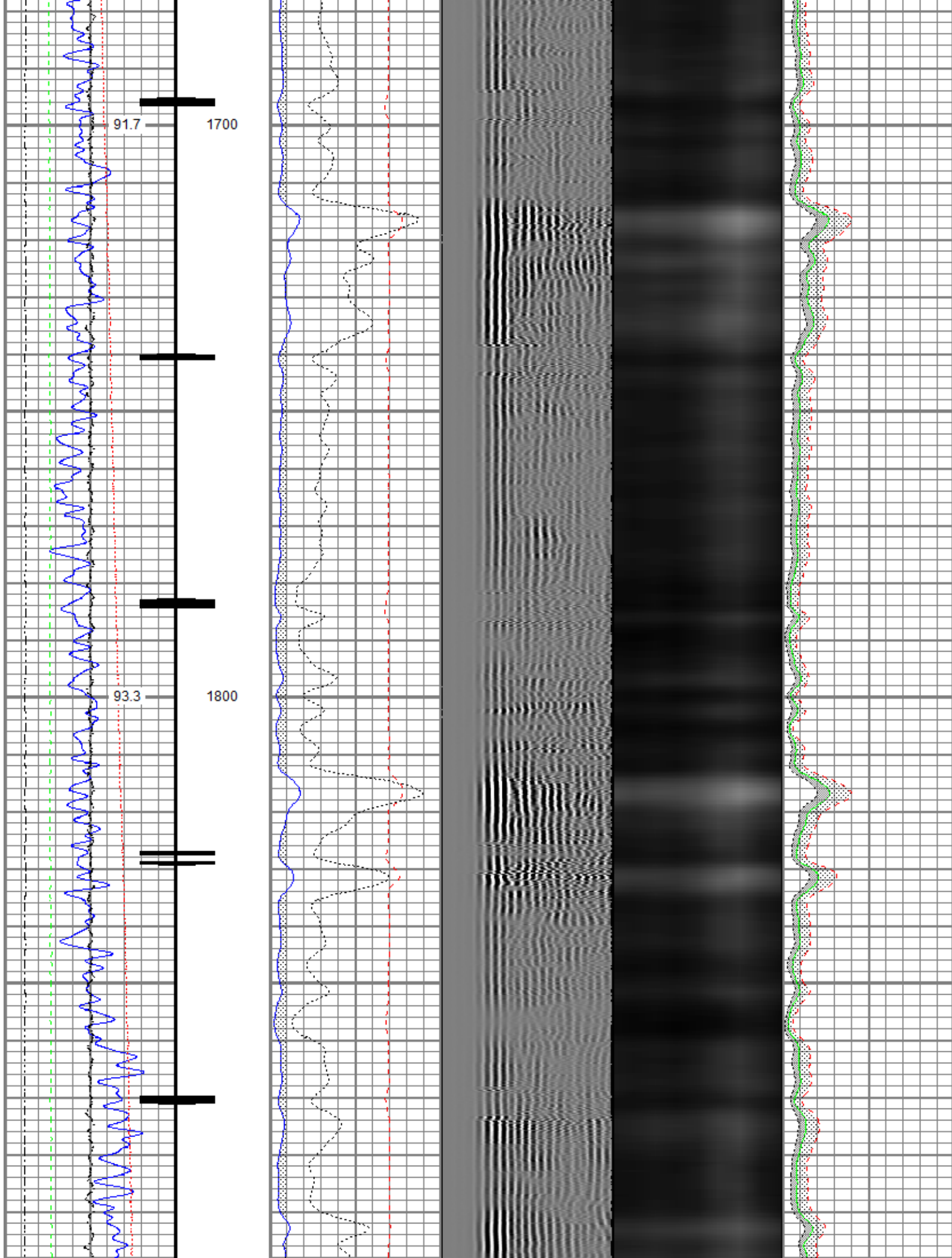


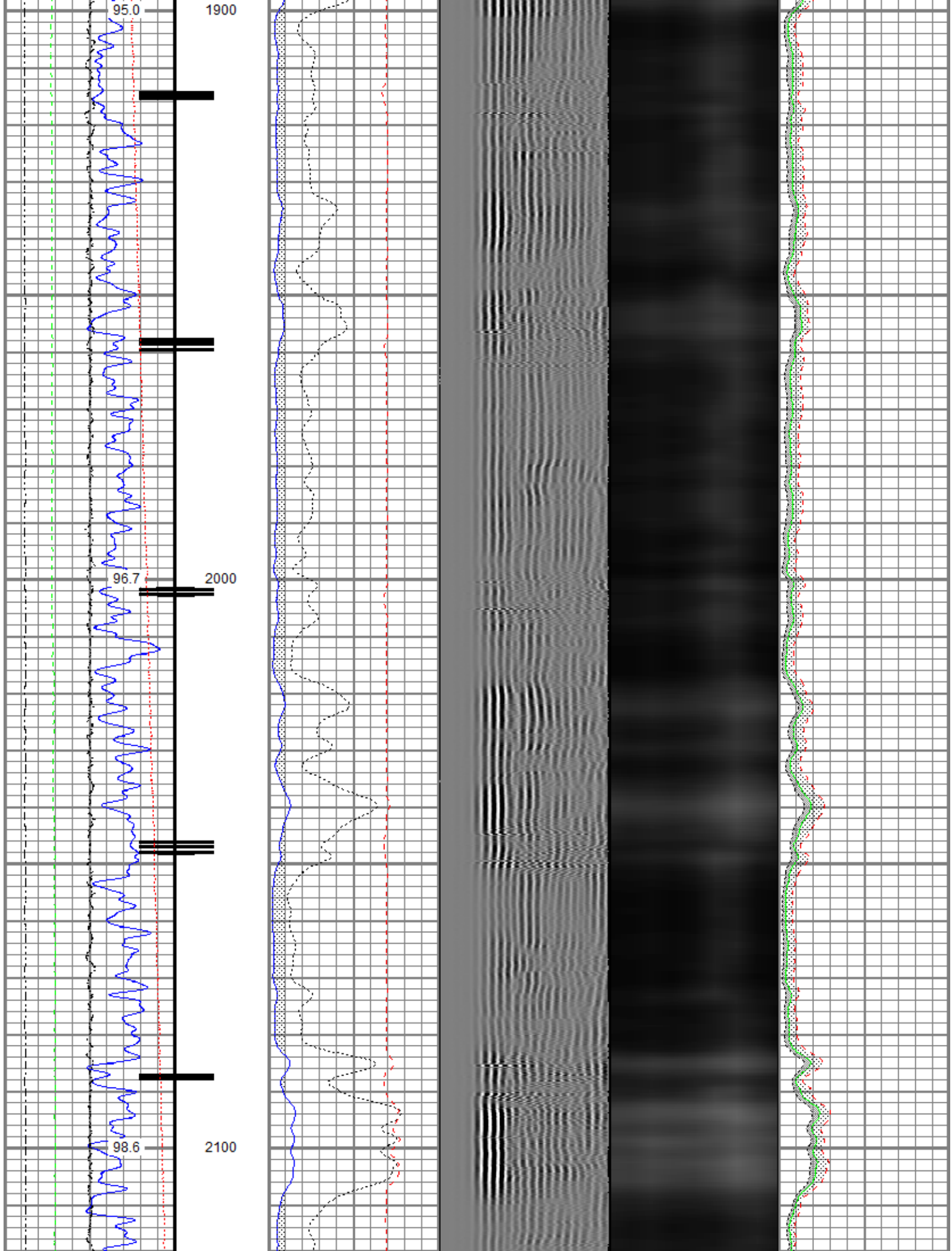


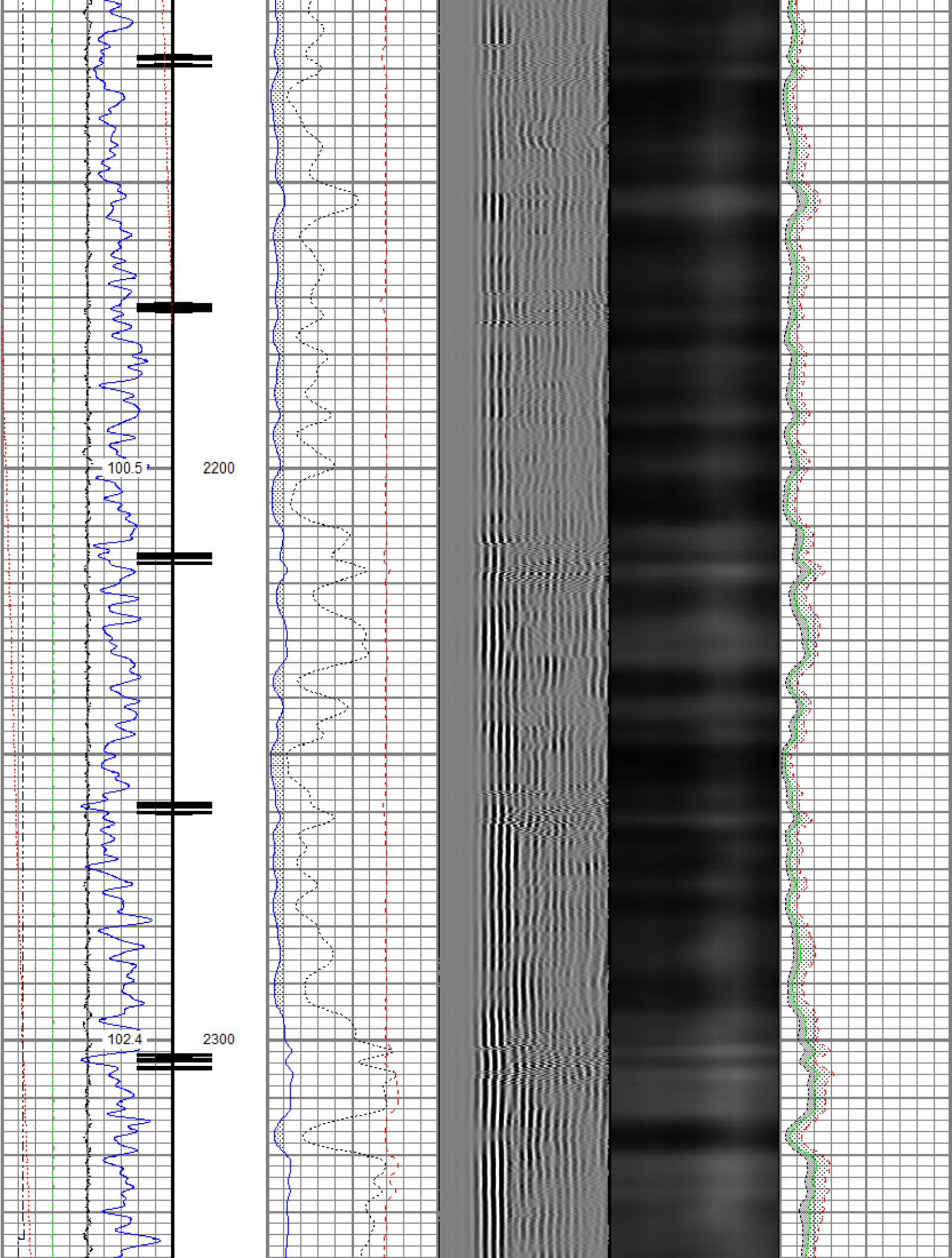


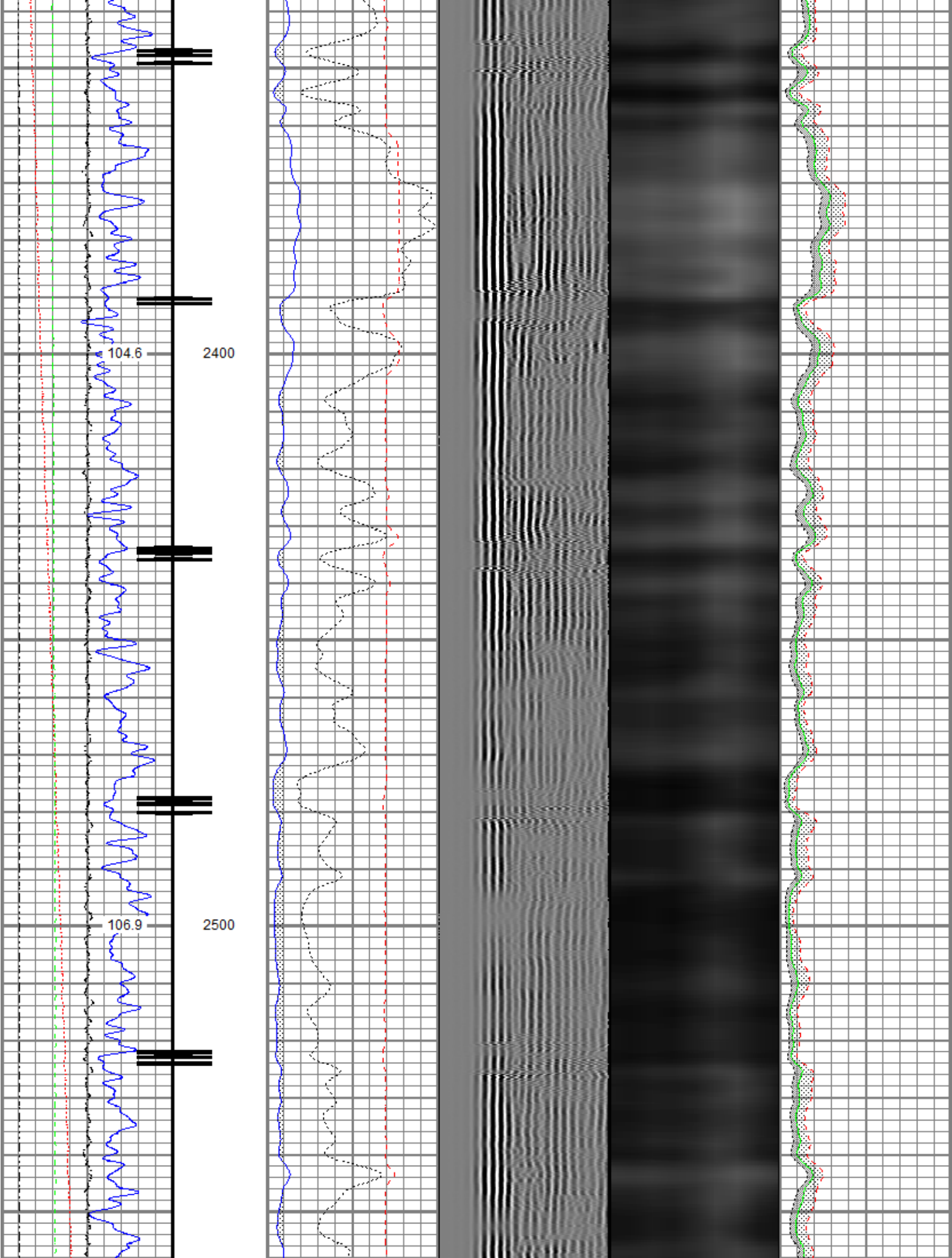


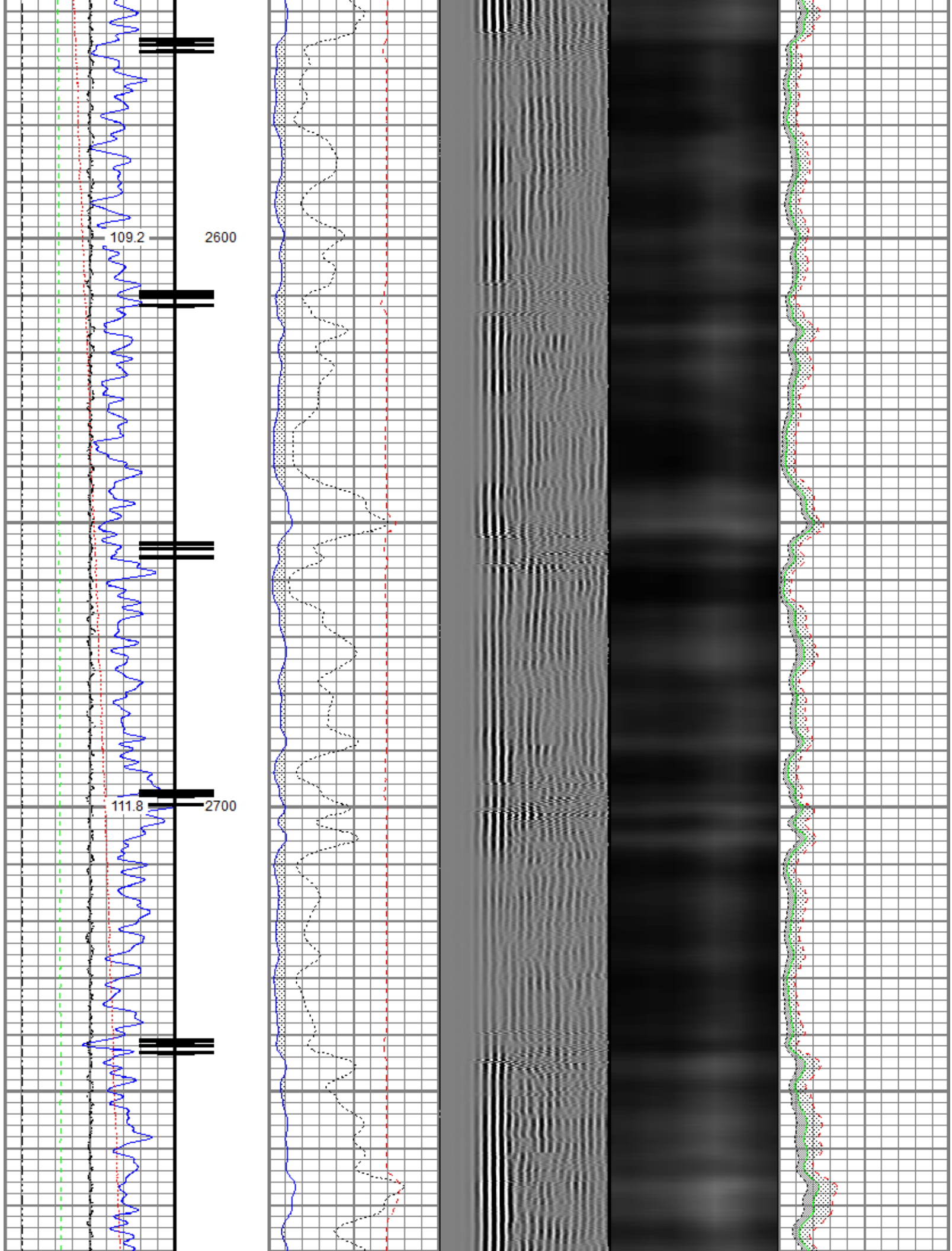


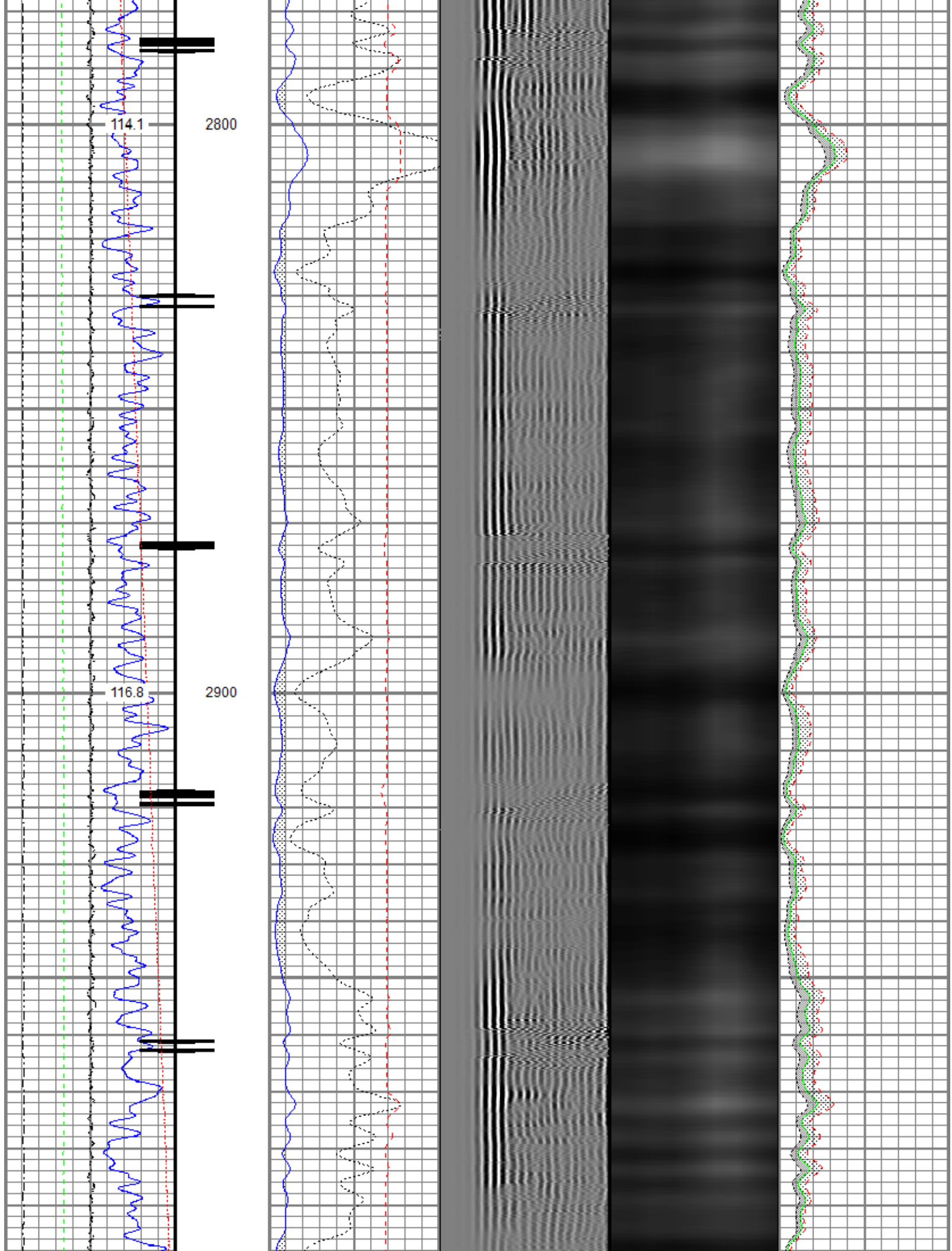


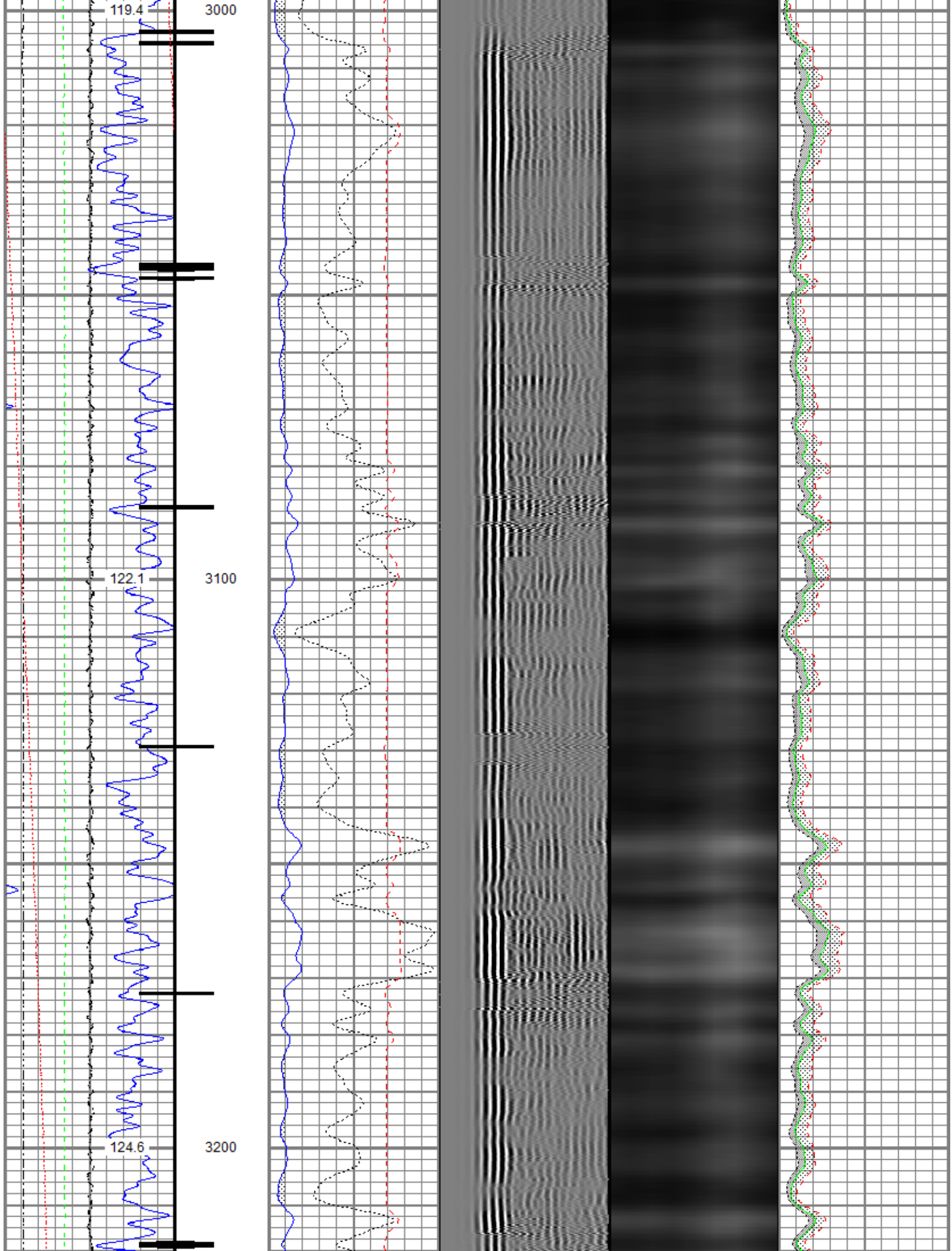


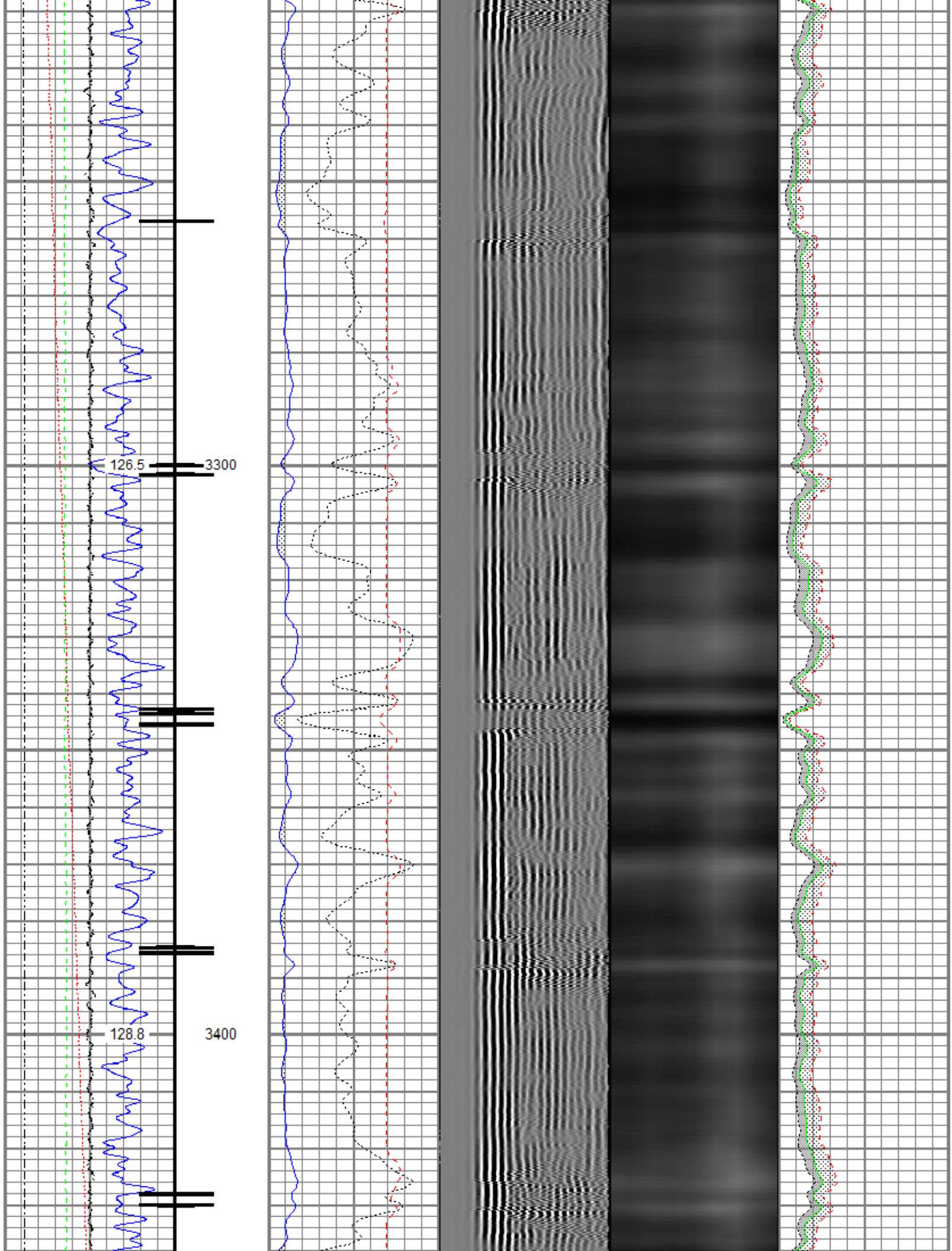


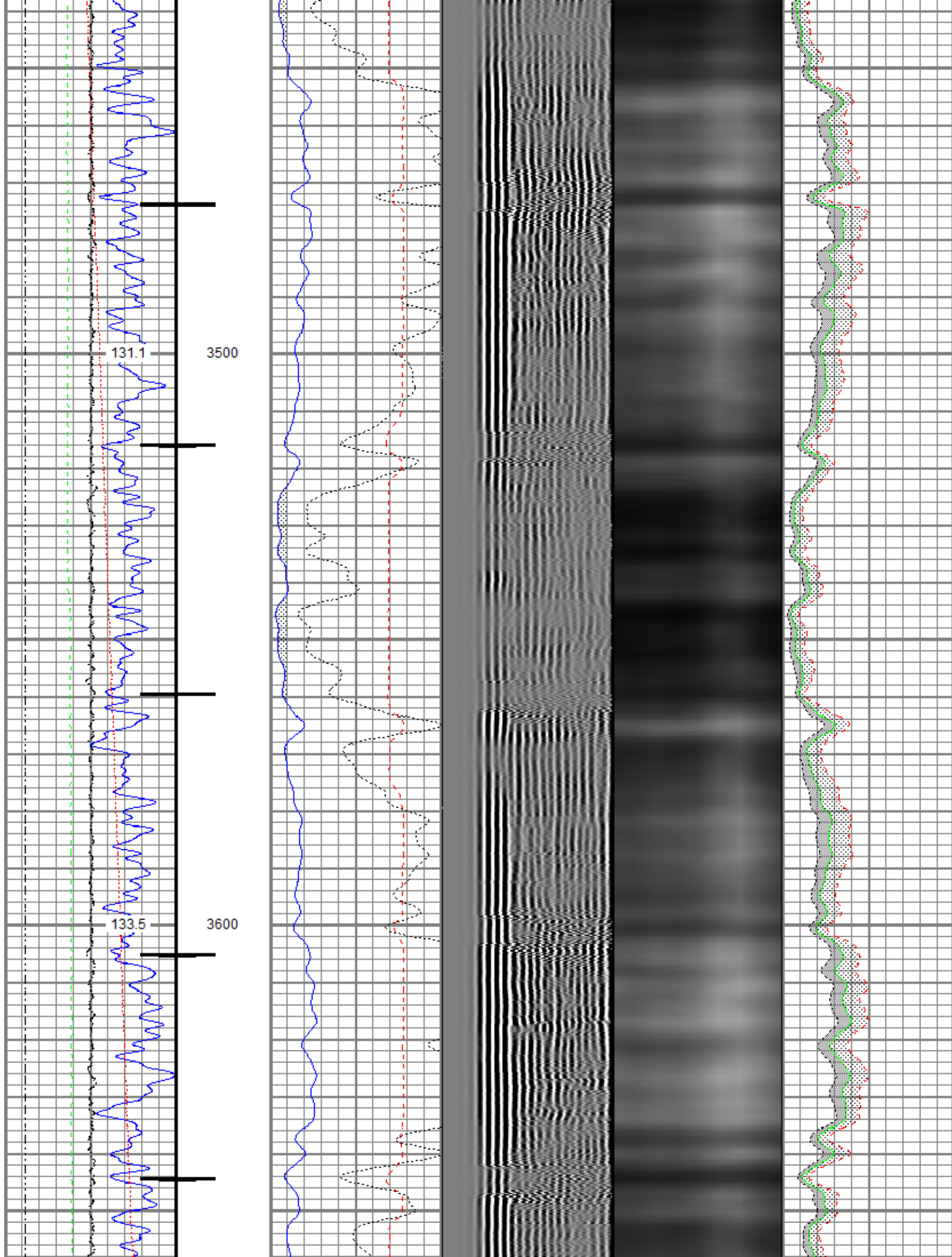


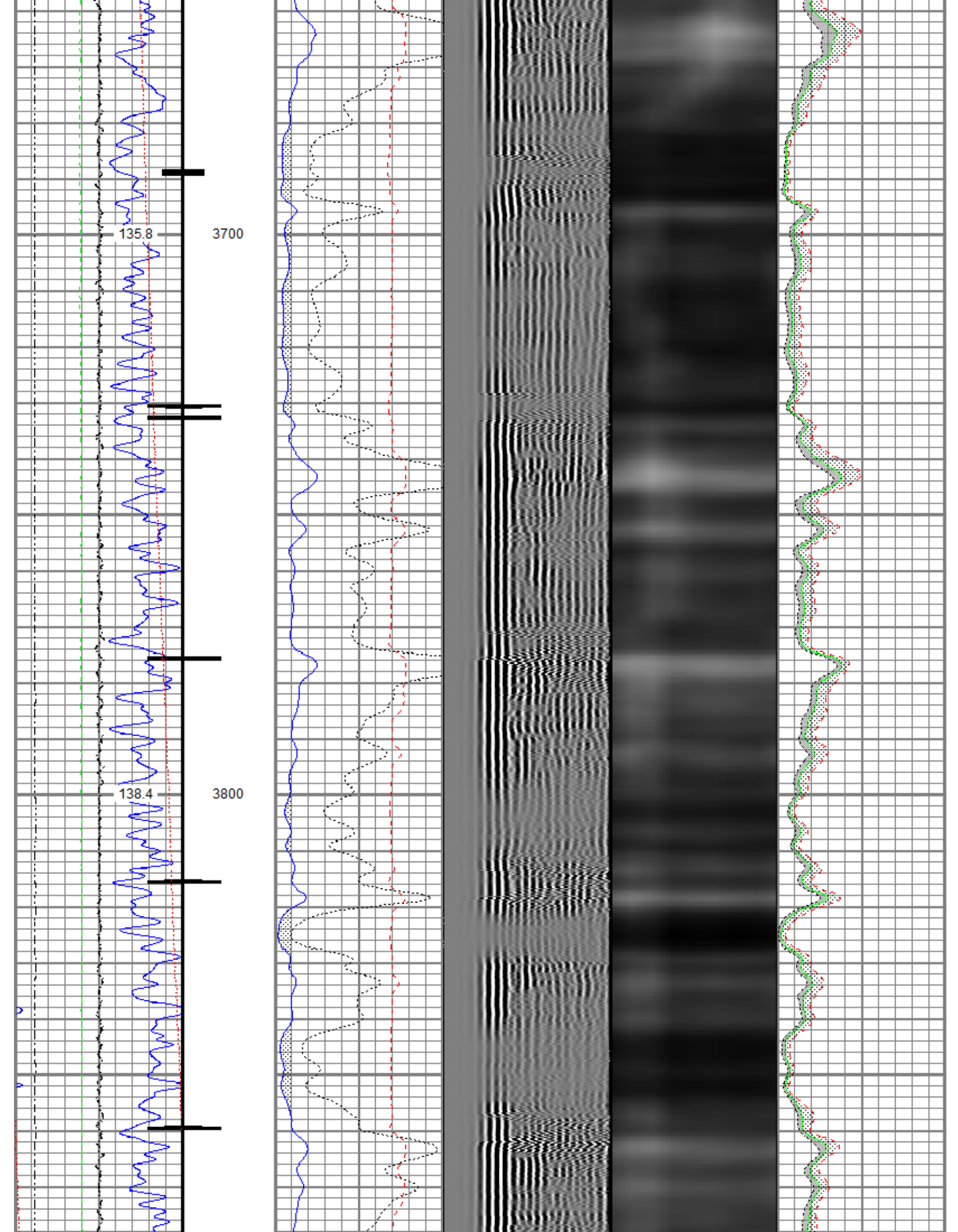


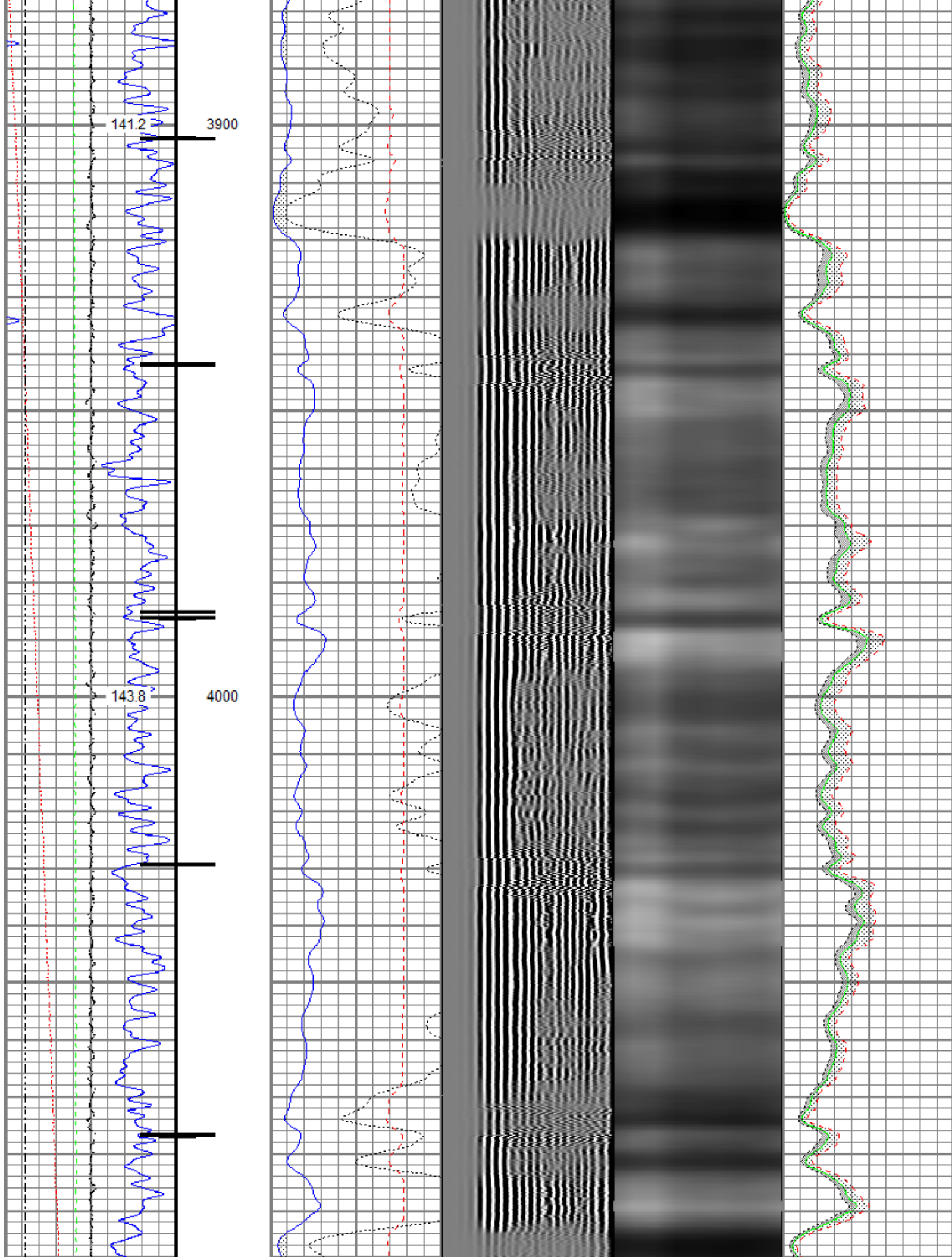


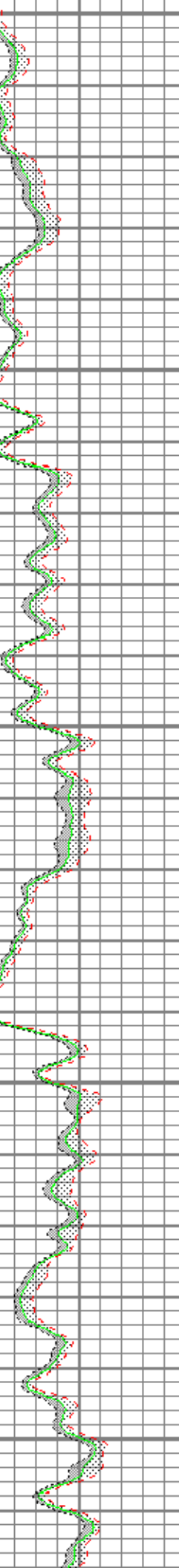
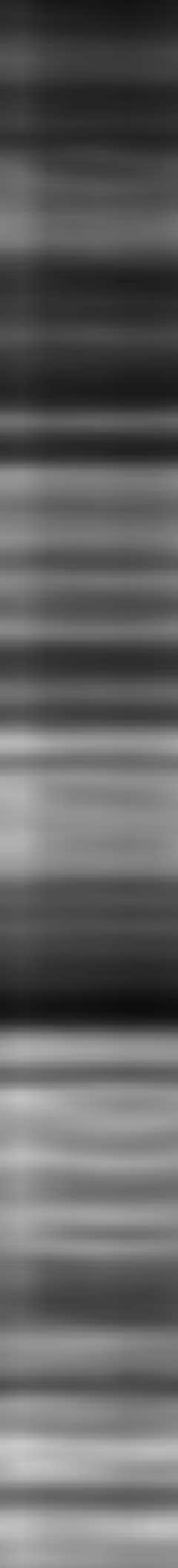
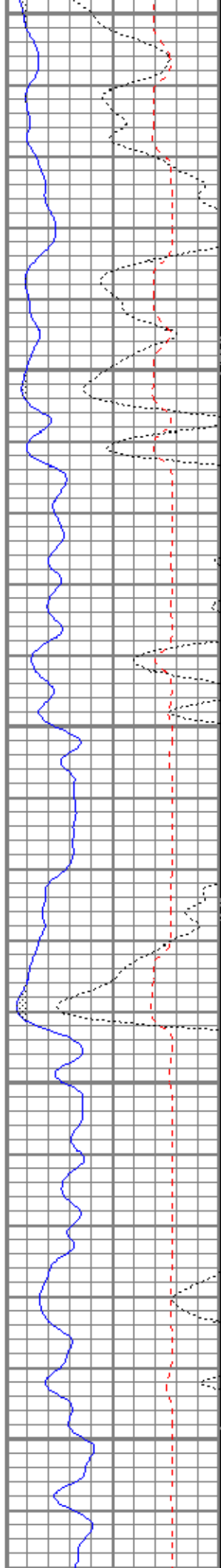
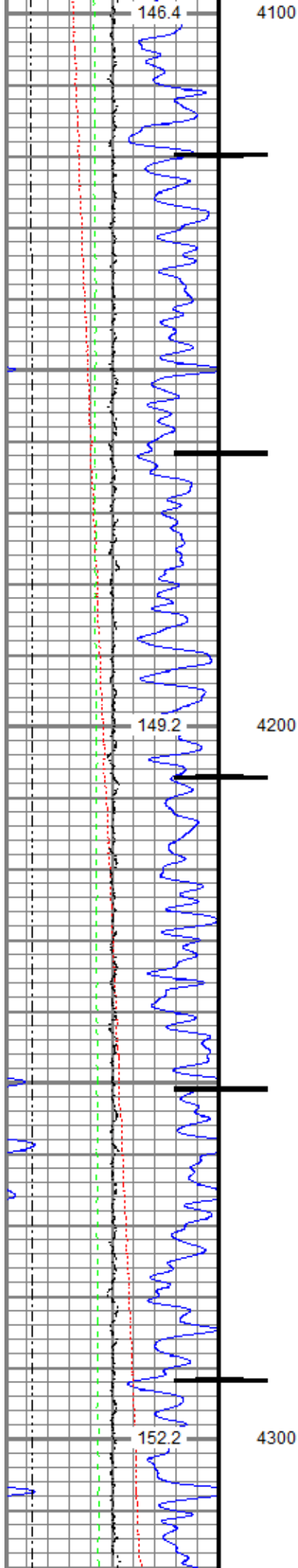


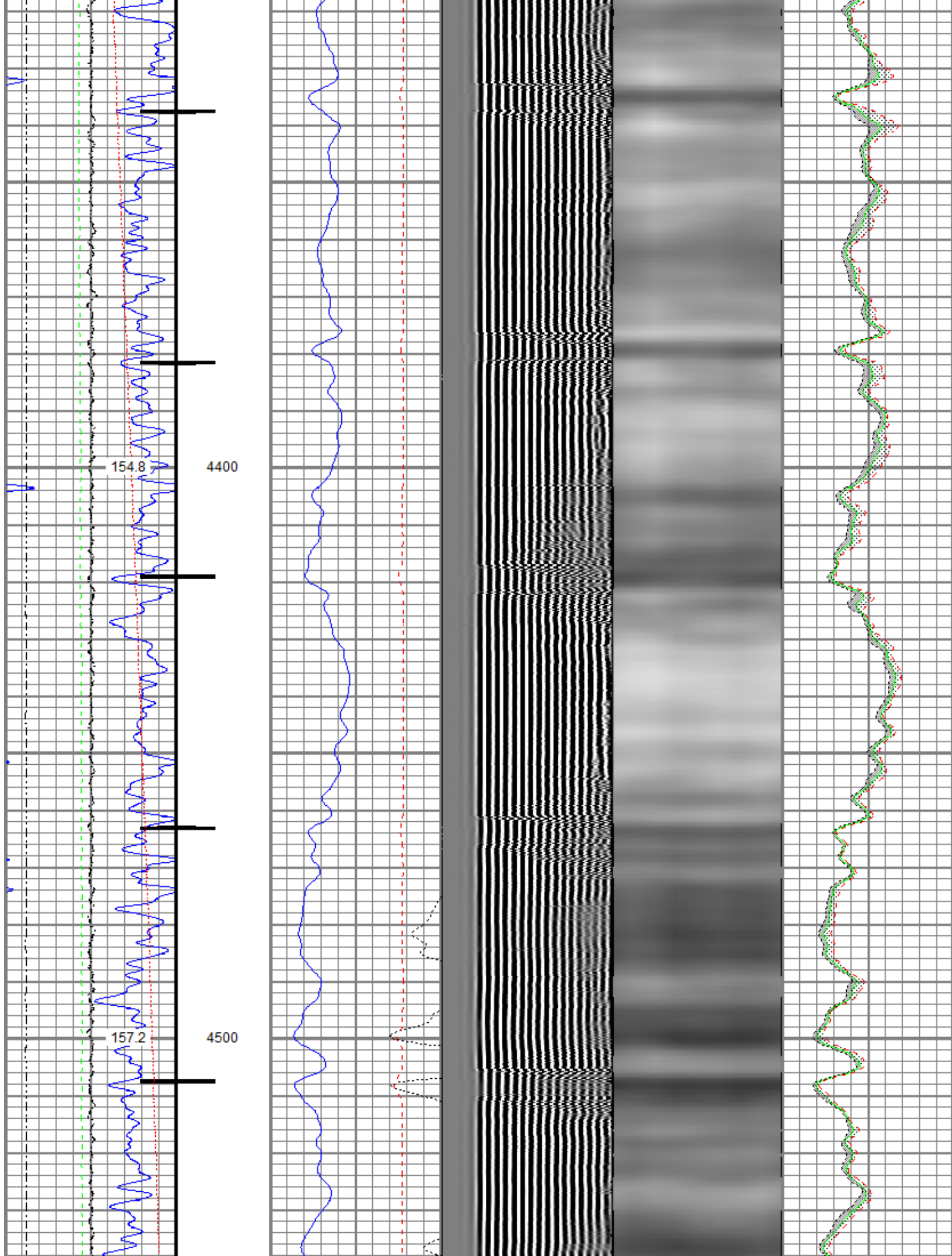


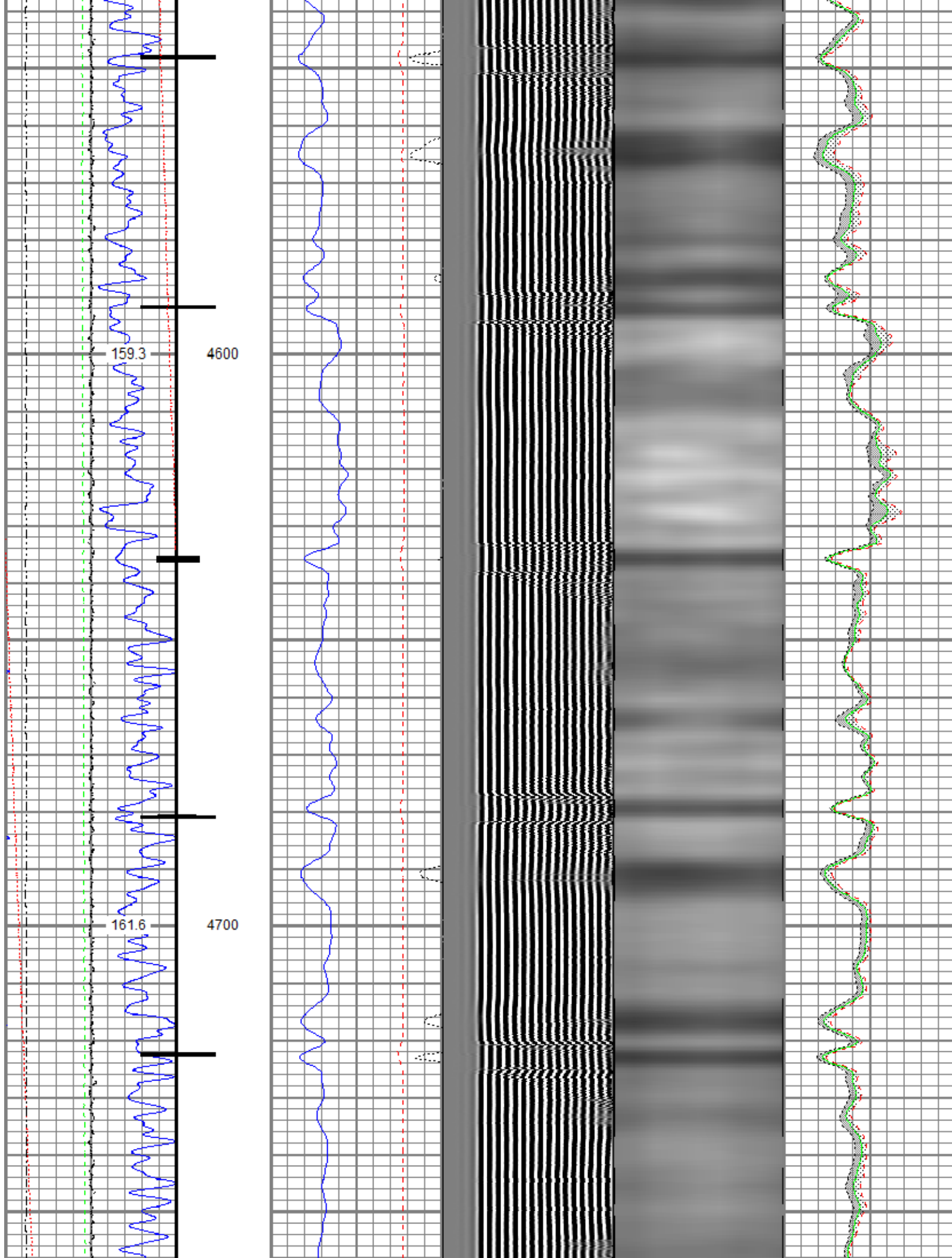


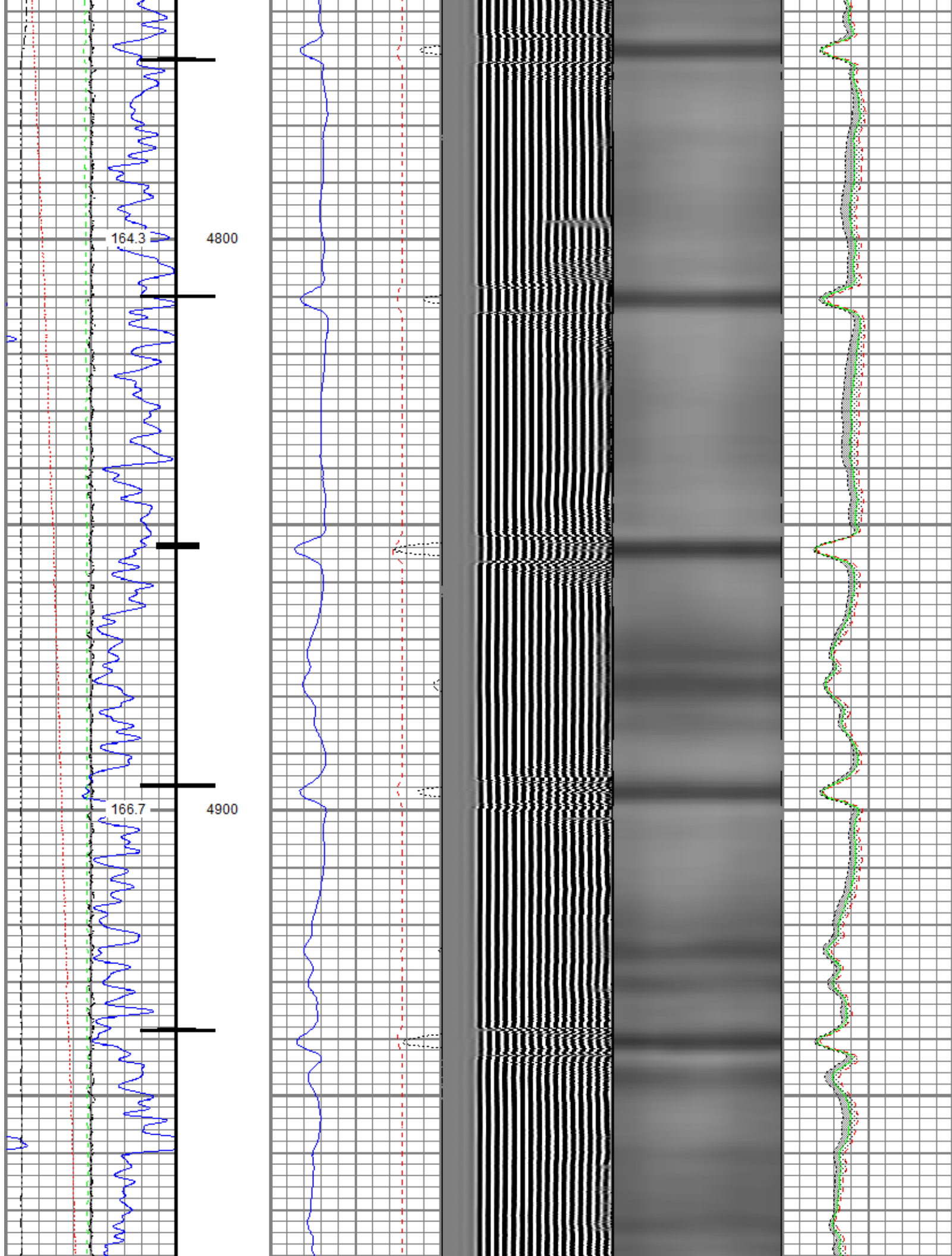


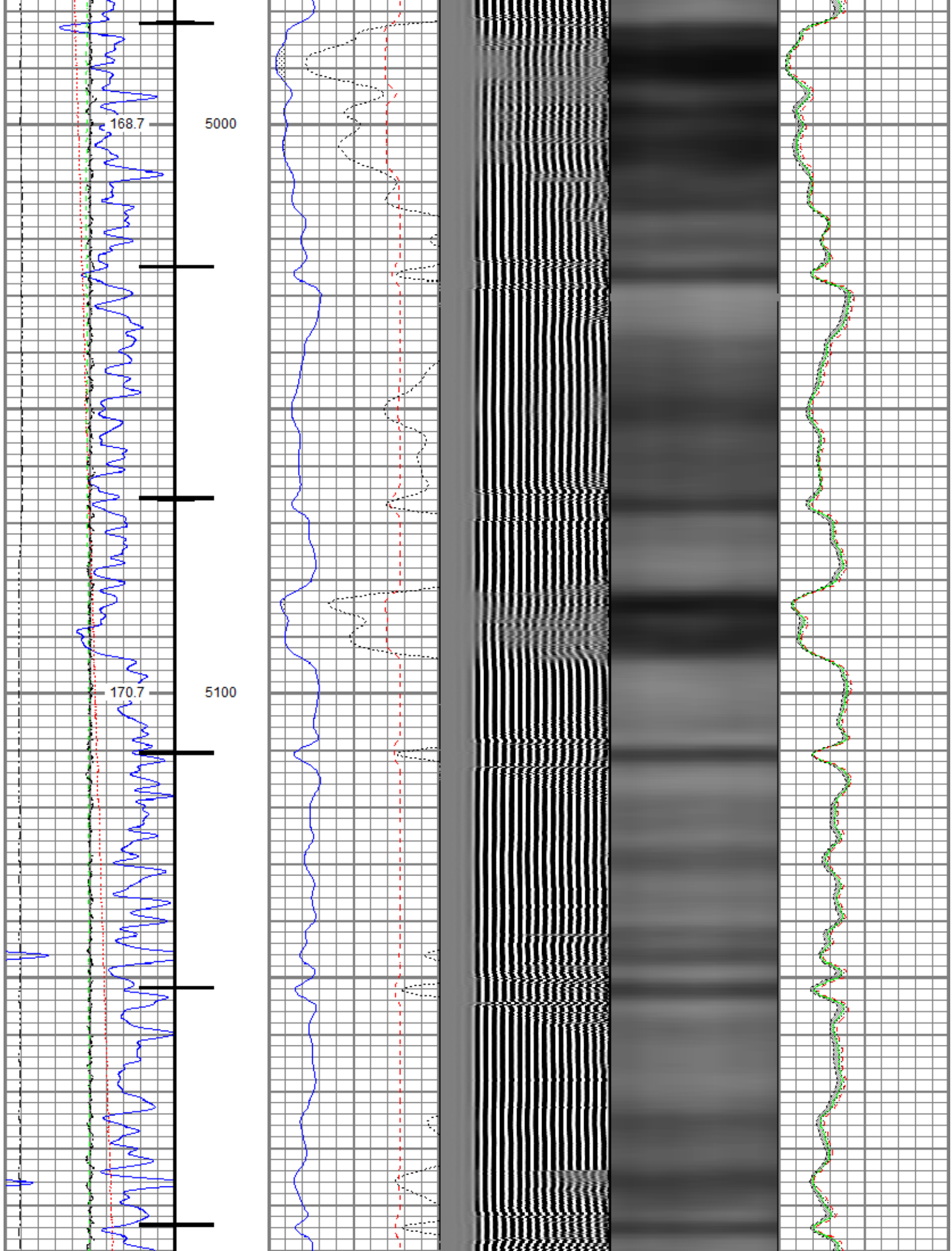


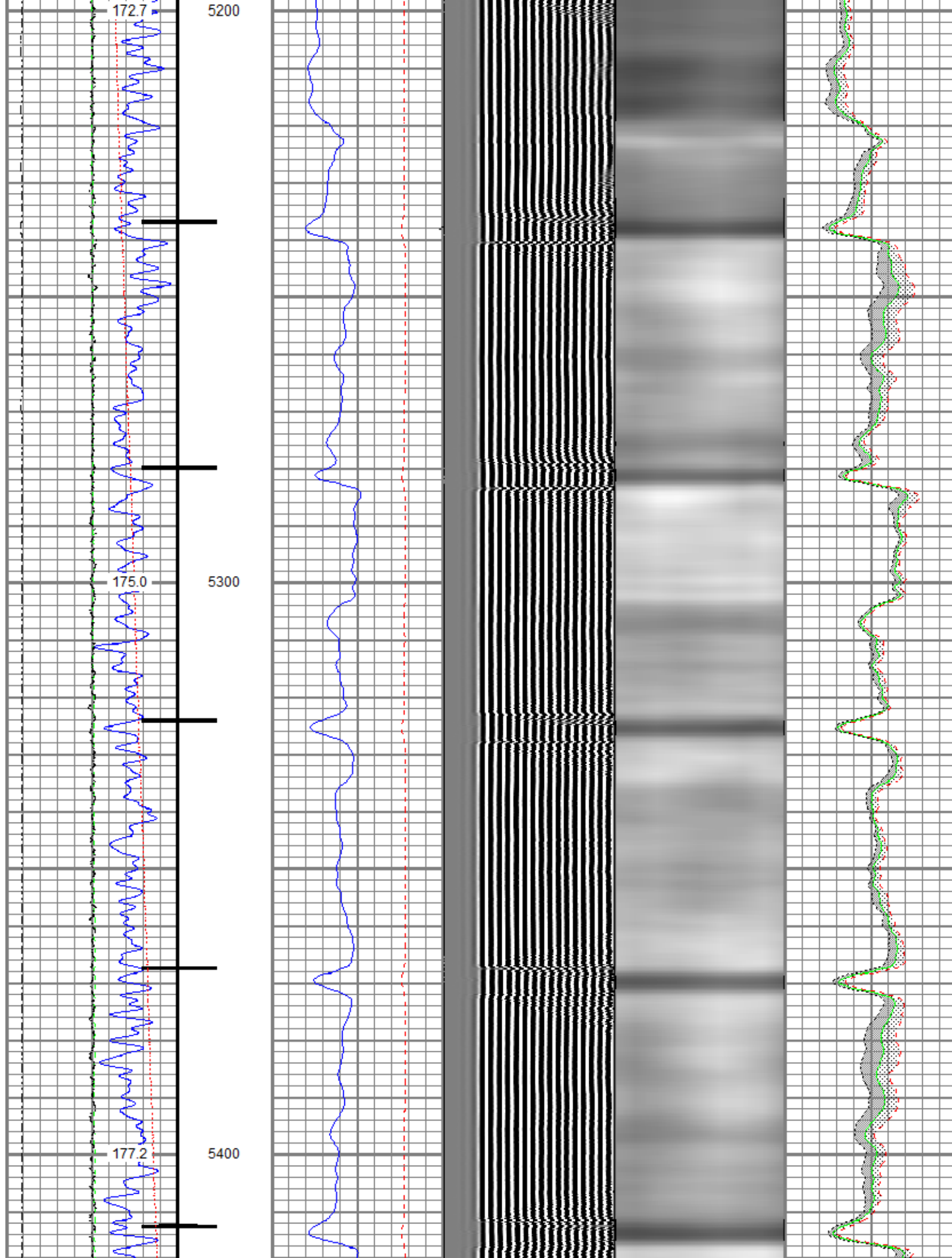


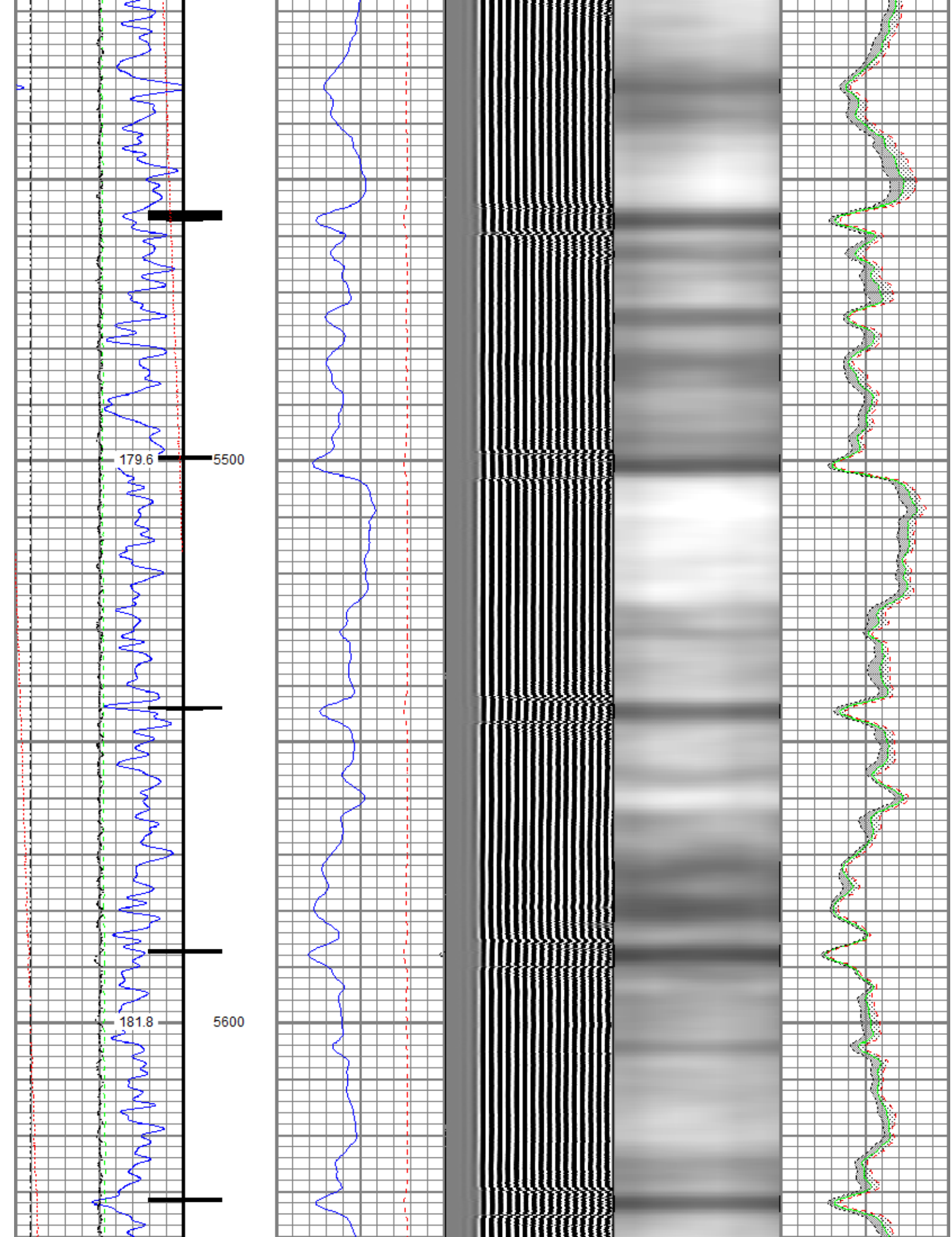


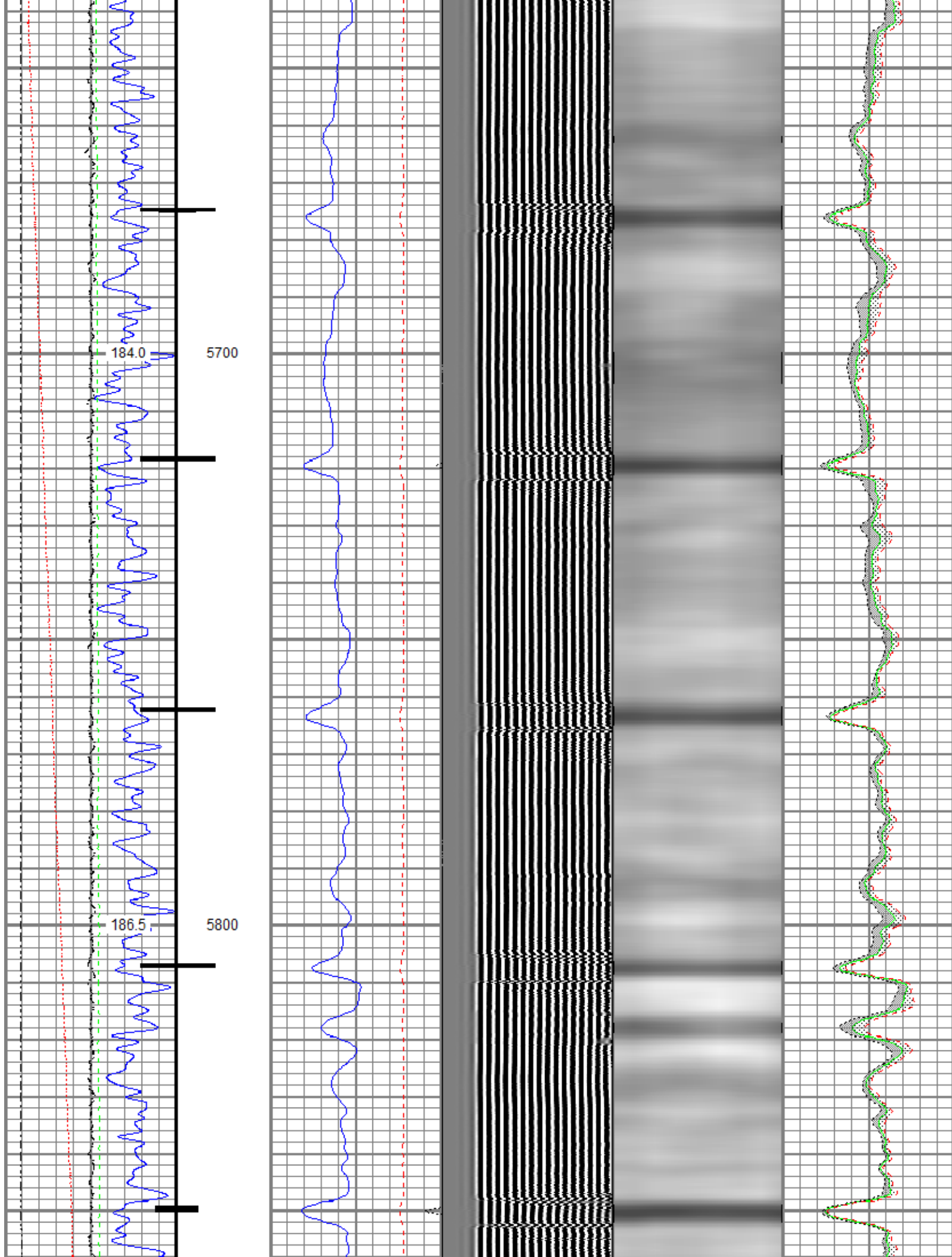


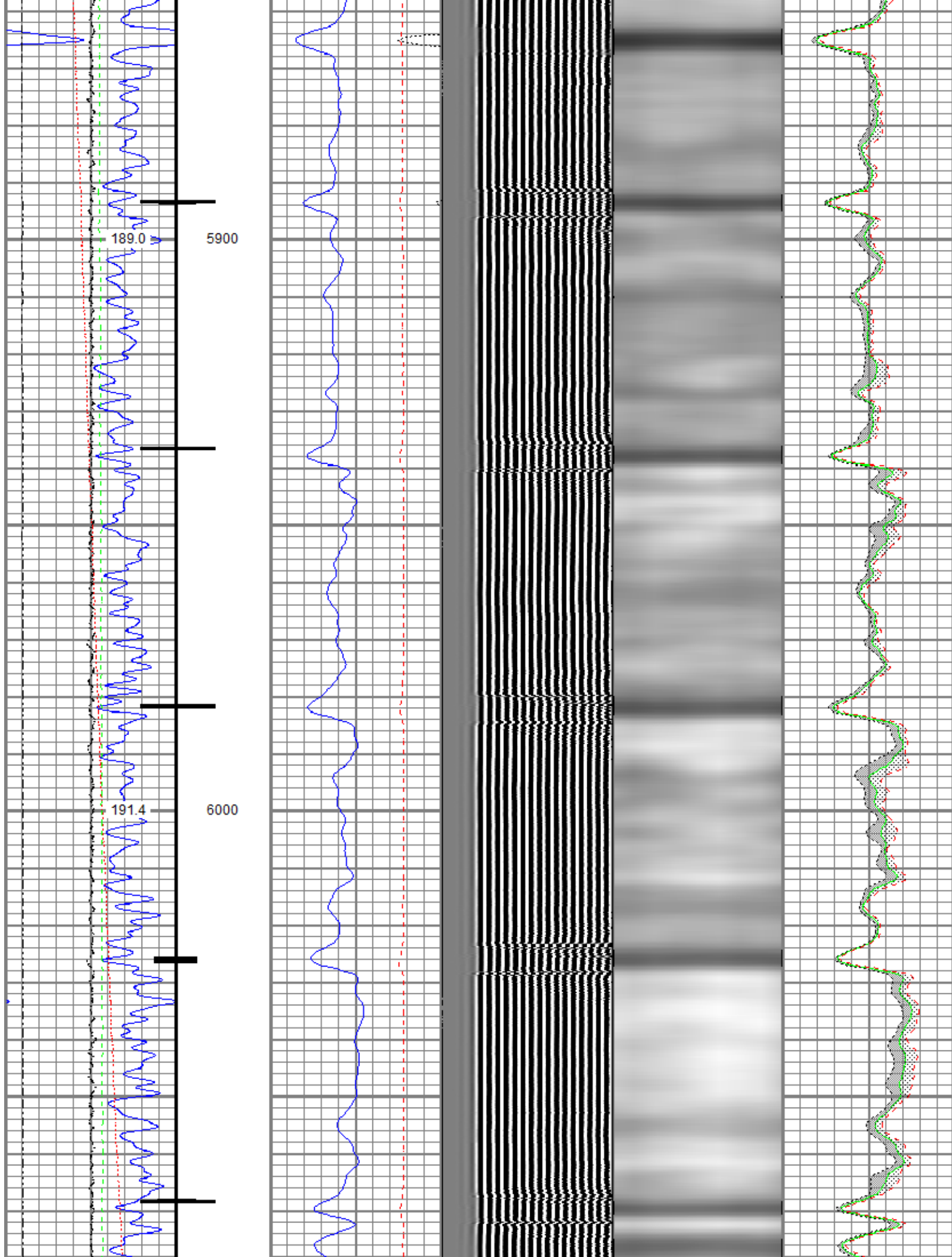


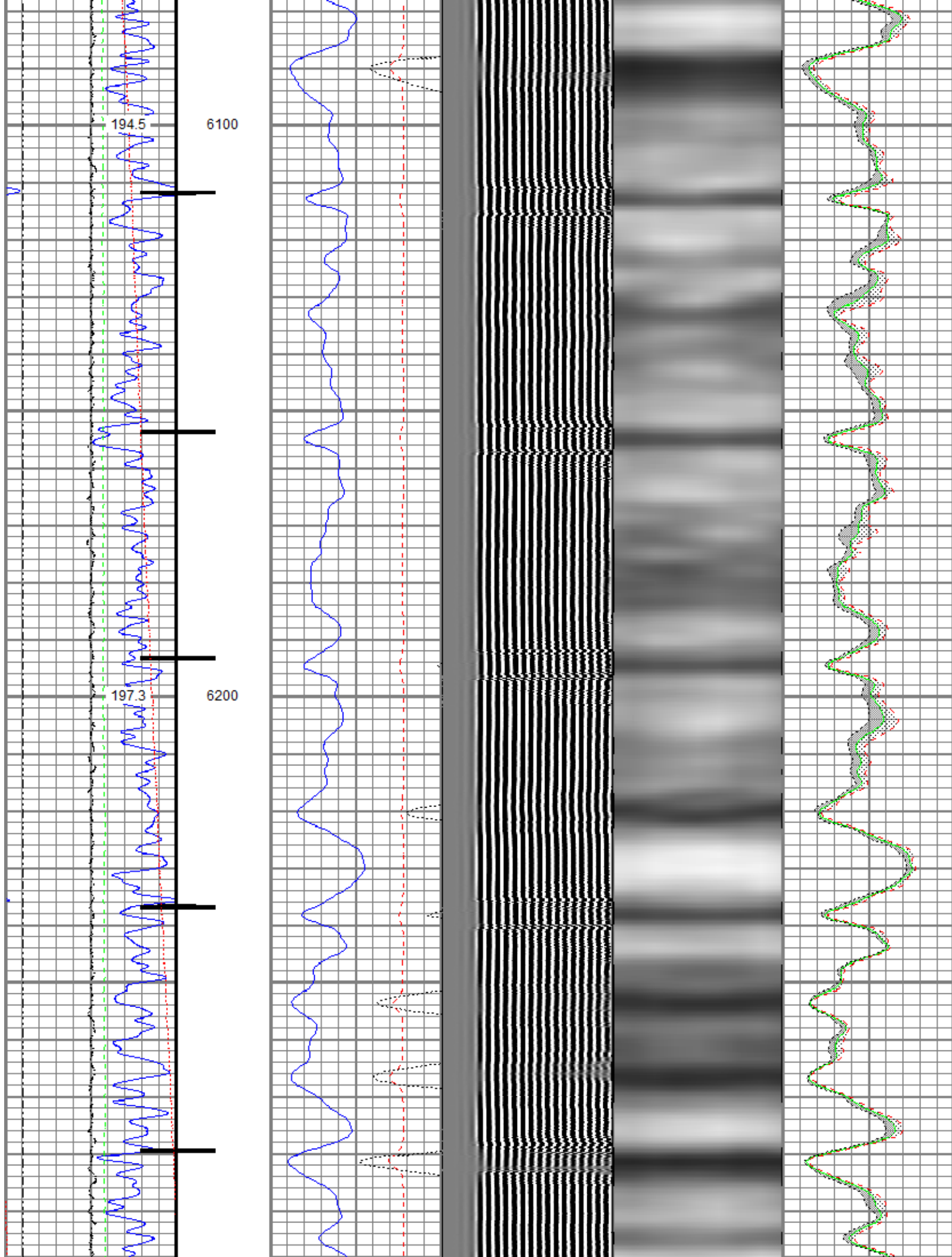


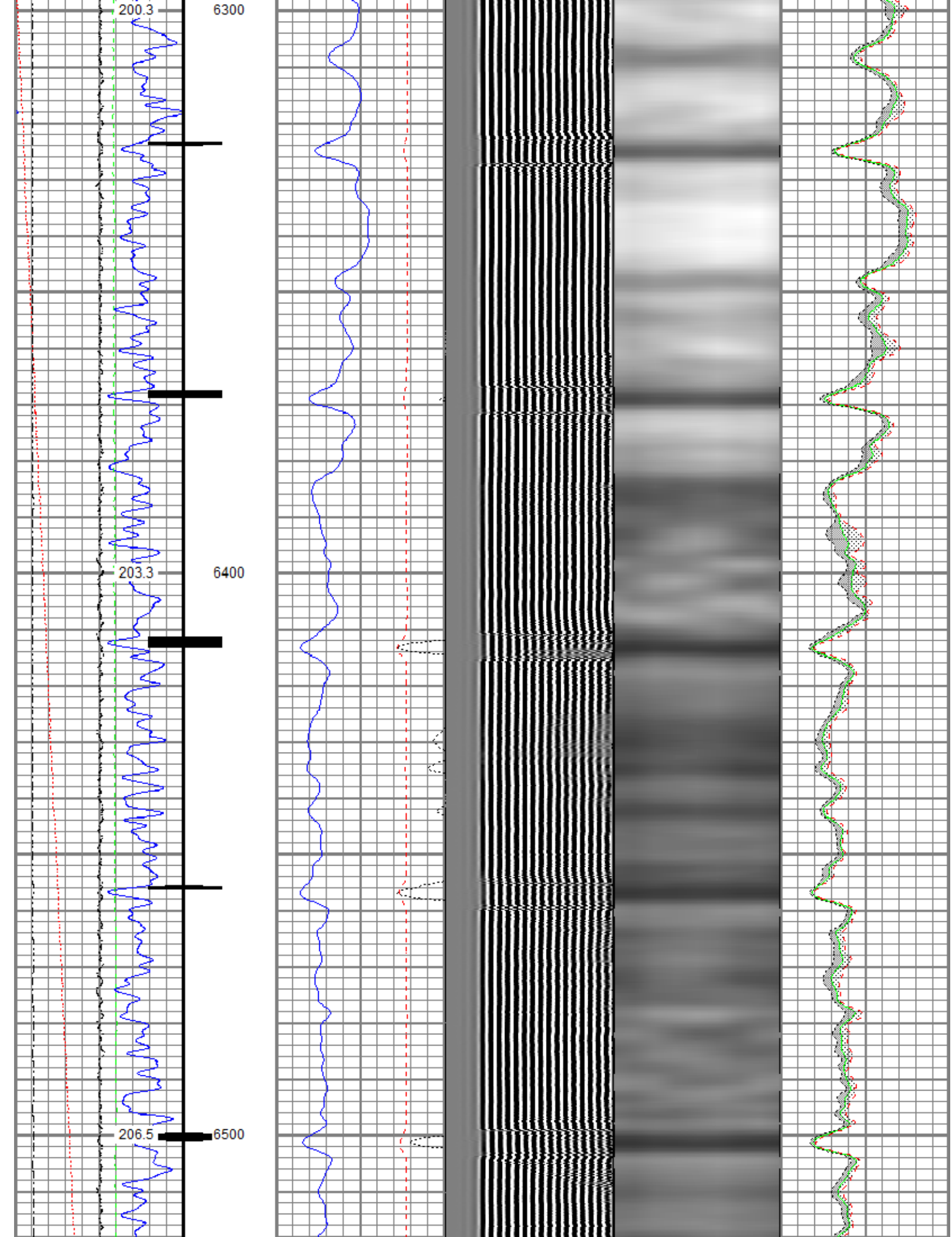


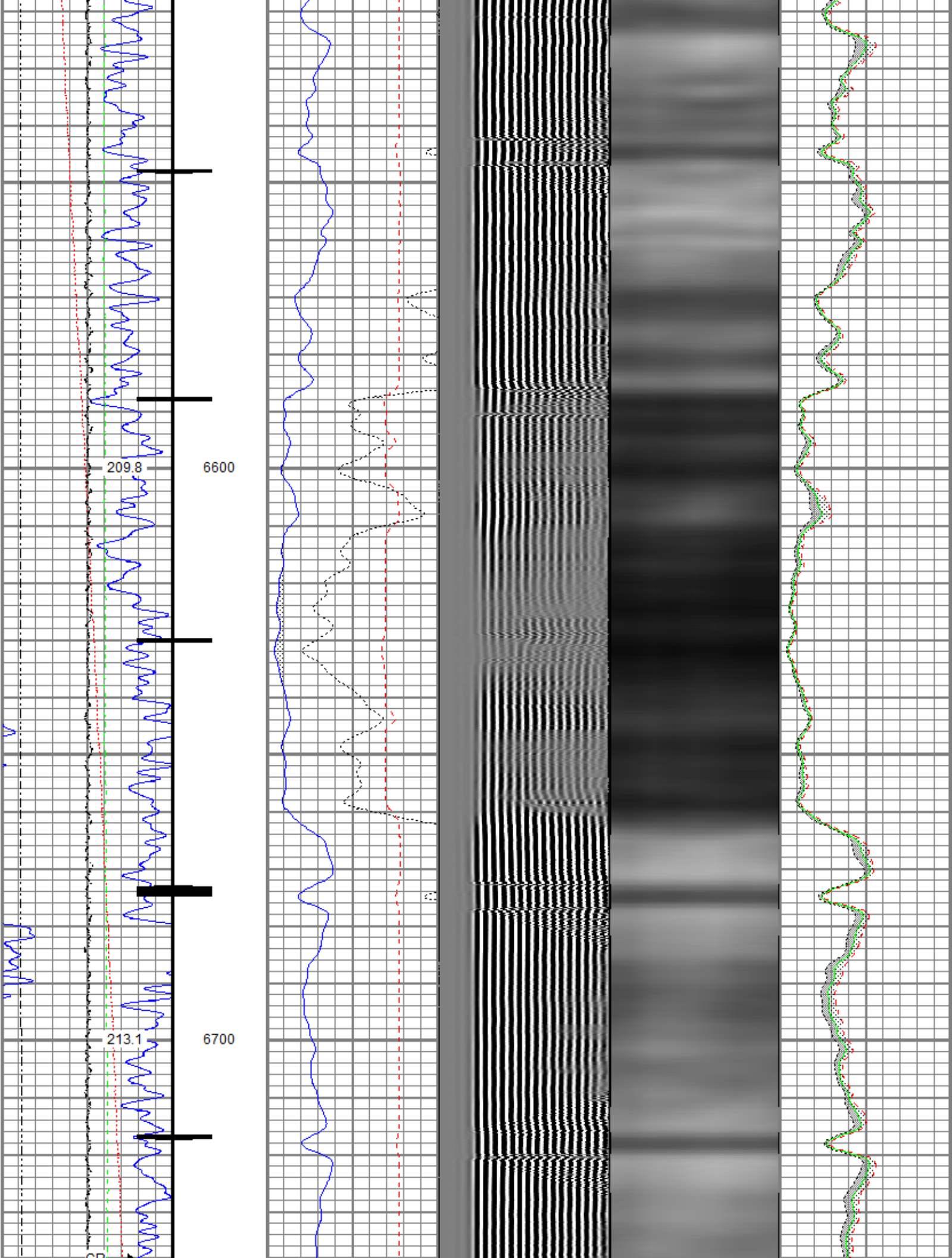


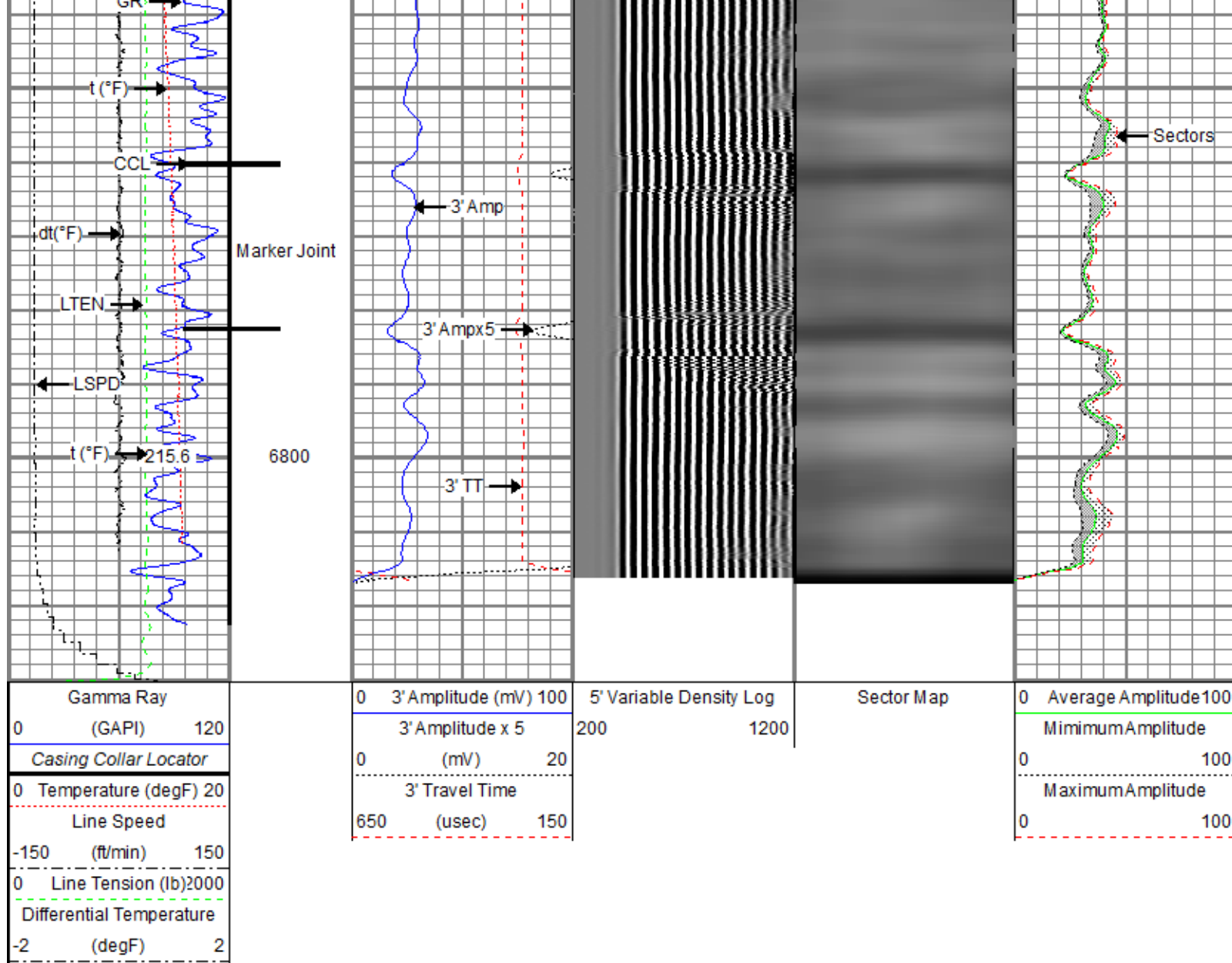








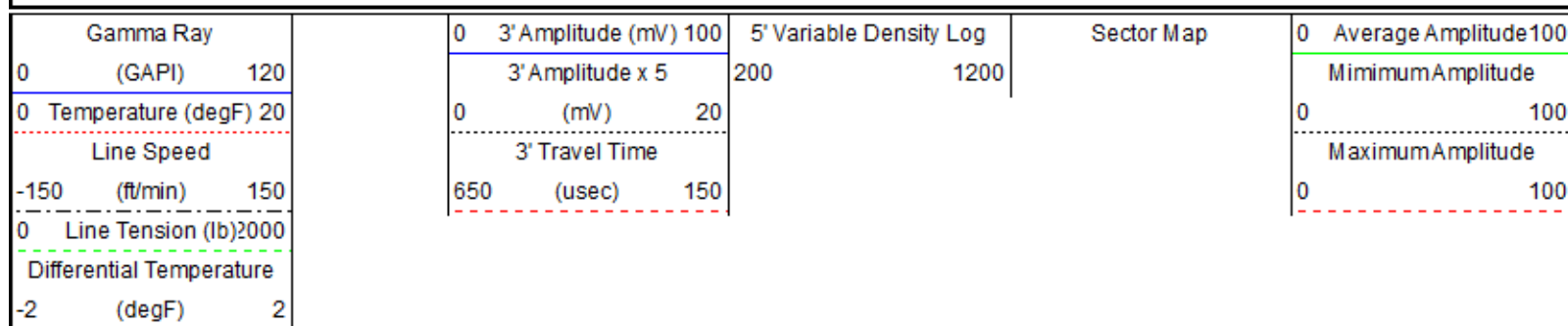




Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

Database File: anadarko\0512349233_anadarko_mab 15-11hz_rbl_06-20-19\processed_0512349233_anadarko_mab 15-11hz_rbl_06-20-19
 Dataset Pathname: pass2.2
 Presentation Format: ros_radrii
 Dataset Creation: Fri Jun 21 09:40:31 2019
 Charted by: Depth in Feet scaled 1:240



Repeat Pass

Repeat Pass

213.3

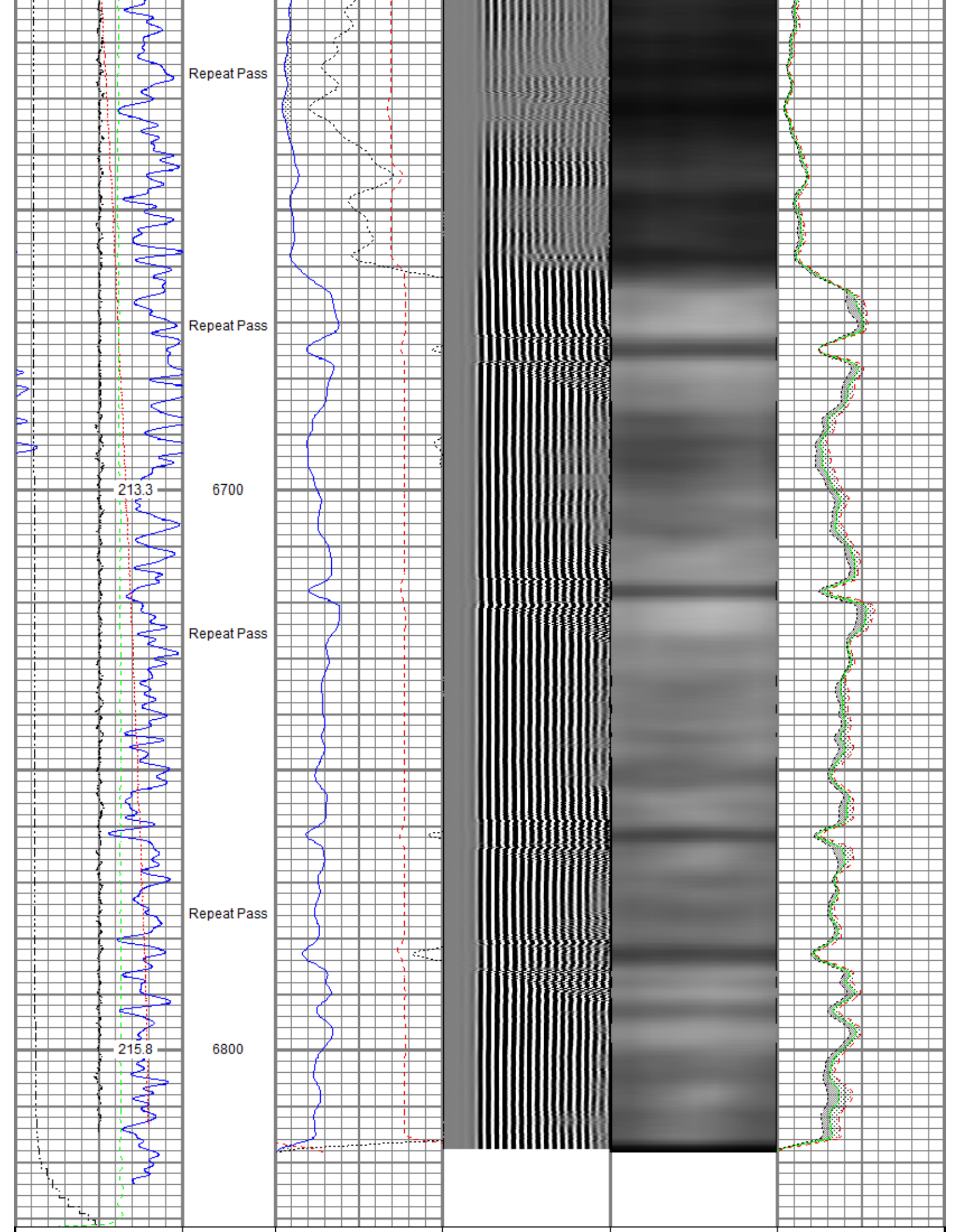
6700

Repeat Pass

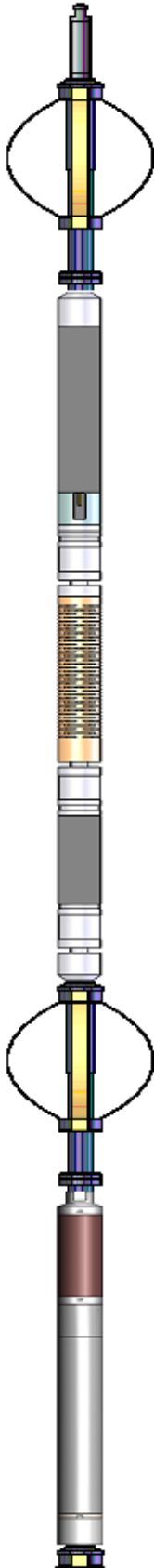
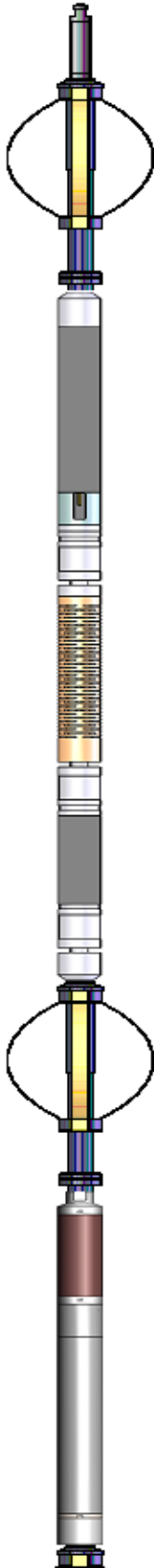
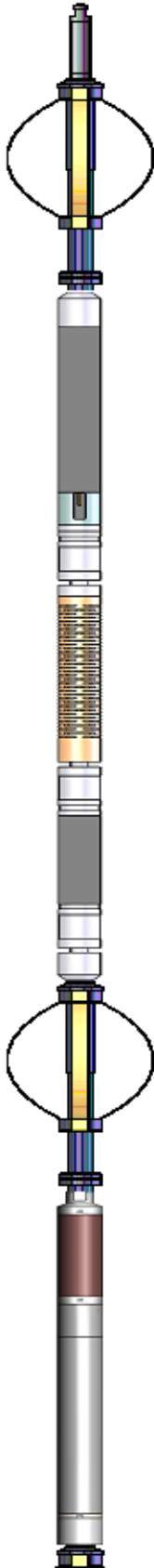
Repeat Pass

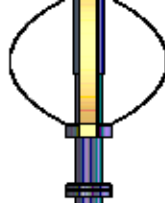
215.8

6800



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	0 100
0 Temperature (degF) 20	0 (mV) 20				Maximum Amplitude	0 100
Line Speed	3' Travel Time					
-150 (ft/min) 150	650 (usec) 150					
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	1.03	1.44	3.60
			Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			
WVFS8	14.81		Probe Radii-2750 RBT (FW1305-098)	9.39	2.75	105.00
WVFS7	14.81		Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
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					
CCL\$2 CCL\$1	6.80		Probe CENT-2750	2.88	2.75	20.00
	6.80		Probe 2-3/4" Electric Inline Bowspring Centralizer			
GR	5.46		Probe GR-CCL-2750 6PB (101001)	4.80	2.75	55.00
			Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT			



Probe CENT-2750
Probe 2-3/4" Electric Inline Bowspring Centralizer

2.88

2.75

20.00

Dataset: processed_0512349233_anadarko_mab 15-11hz_rbl_06-20-19.db: field/well/run1/pass4.3
Total length: 23.86 ft
Total weight: 223.60 lb
O.D.: 2.75 in

Calibration Report

Database File c:\programdata\warrior\data\anadarko\0512349233_anadarko_mab 15-11hz_rbl_06-20-19\processed_0512349233_anadarko_mab 15-11hz_rbl_06-20-19.db: field/well/run1/pass4.3
Dataset Pathname pass4.3
Dataset Creation Fri Jun 21 09:33:11 2019

Gamma Ray Calibration Report

Serial Number: 101001
Tool Model: 2750 6PB
Performed: Mon Oct 01 11:32:32 2018

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: FW1305-098
Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
Calibration Depth: -51.101 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.678	0.800	71.921	106.188	-0.094
CAL	0.006	0.700				
5'	0.013	0.489	0.800	71.921	149.289	-1.071
SUM						
S1	0.008	0.728	0.000	100.000	139.006	-1.167
S2	0.011	0.733	0.000	100.000	138.593	-1.536
S3	0.009	0.698	0.000	100.000	145.064	-1.265
S4	0.011	0.670	0.000	100.000	151.743	-1.724
S5	0.008	0.671	0.000	100.000	150.911	-1.237
S6	0.009	0.665	0.000	100.000	152.533	-1.444
S7	0.012	0.659	0.000	100.000	154.537	-1.802
S8	0.011	0.694	0.000	100.000	146.397	-1.543


Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.700	1.000	0.000

Air Zero Calibration, performed Thu Jun 20 06:09:36 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:	FW1305-098		
Tool Model:	2750 RBT		
Performed:	Mon Oct 01 11:32:17 2018		
	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	Kerr-McGee Oil & Gas Onshore, L.P.
	Well	MAB 15-11HZ
	Field	Wattenberg
	County	Weld
	State	Colorado