



County Weld State Colorado

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

Log ran as per customer request
Depth referenced to Casing Tally reported Marker Joint at 7028 FT
Adjusted +2 FT to correlate with Marker Joint
Gauge Ring/Junk Basket ran to 7945 FT
Retrievable Bridge Plug set at 7085 FT
Log ran with 0 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations

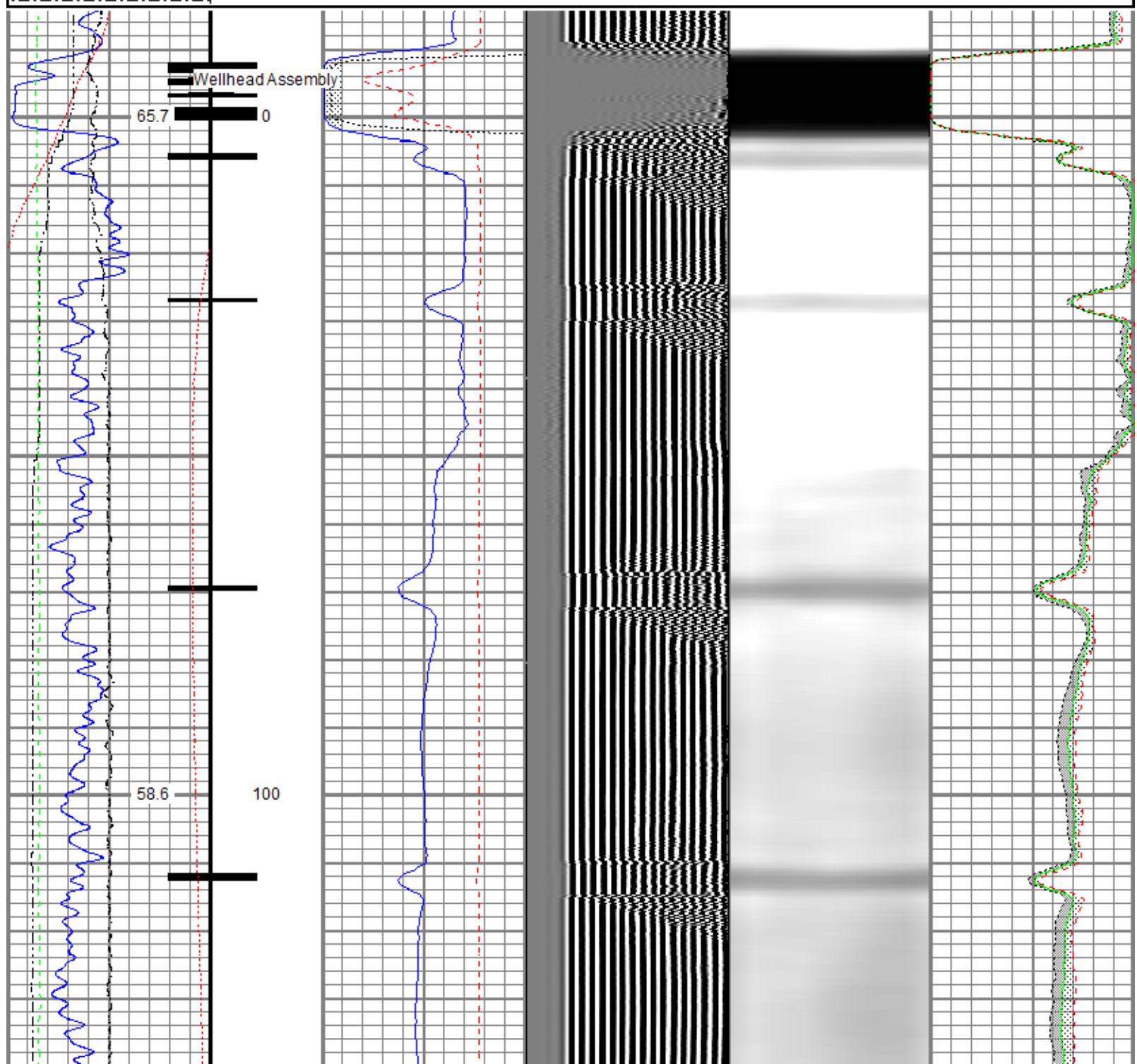
Thank you for choosing Reliance Oilfield Services, LLC!!

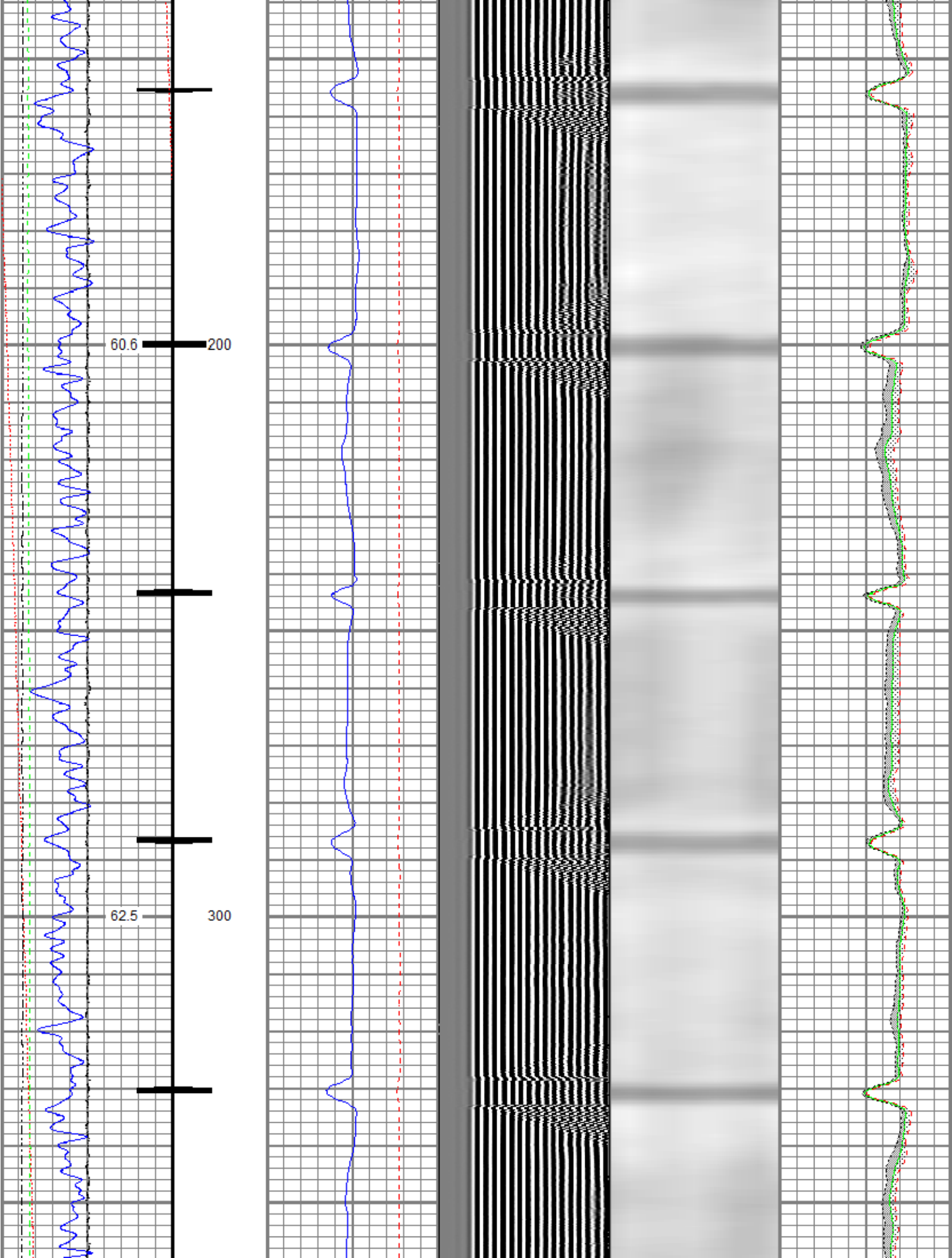


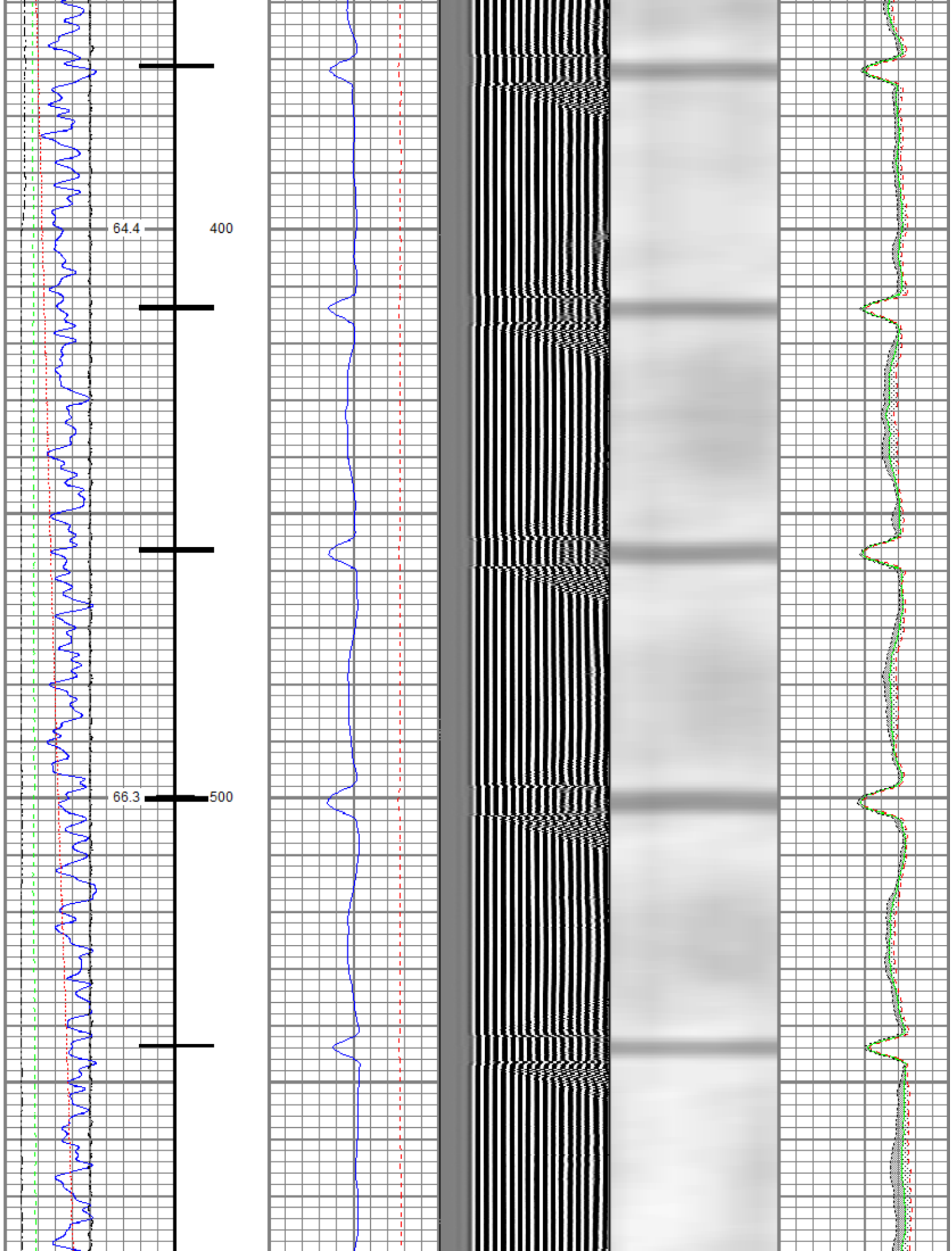
Recorded With 0 PSI Surface-Induced Pressure

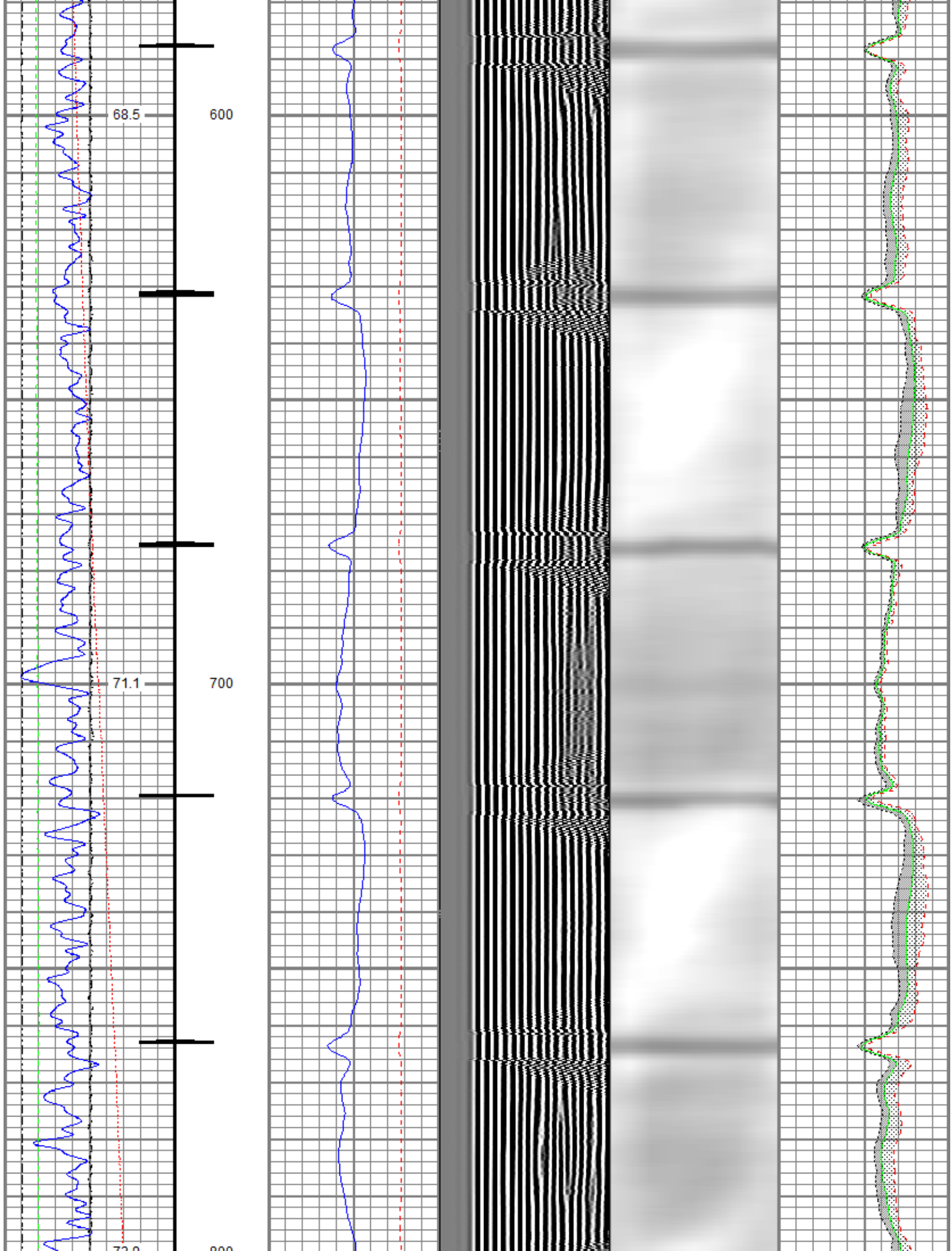
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Dataset Pathname	pass4.2
Presentation Format	ros_radri
Dataset Creation	Tue Jun 25 10:04:29 2019
Charted by	Depth in Feet scaled 1:240

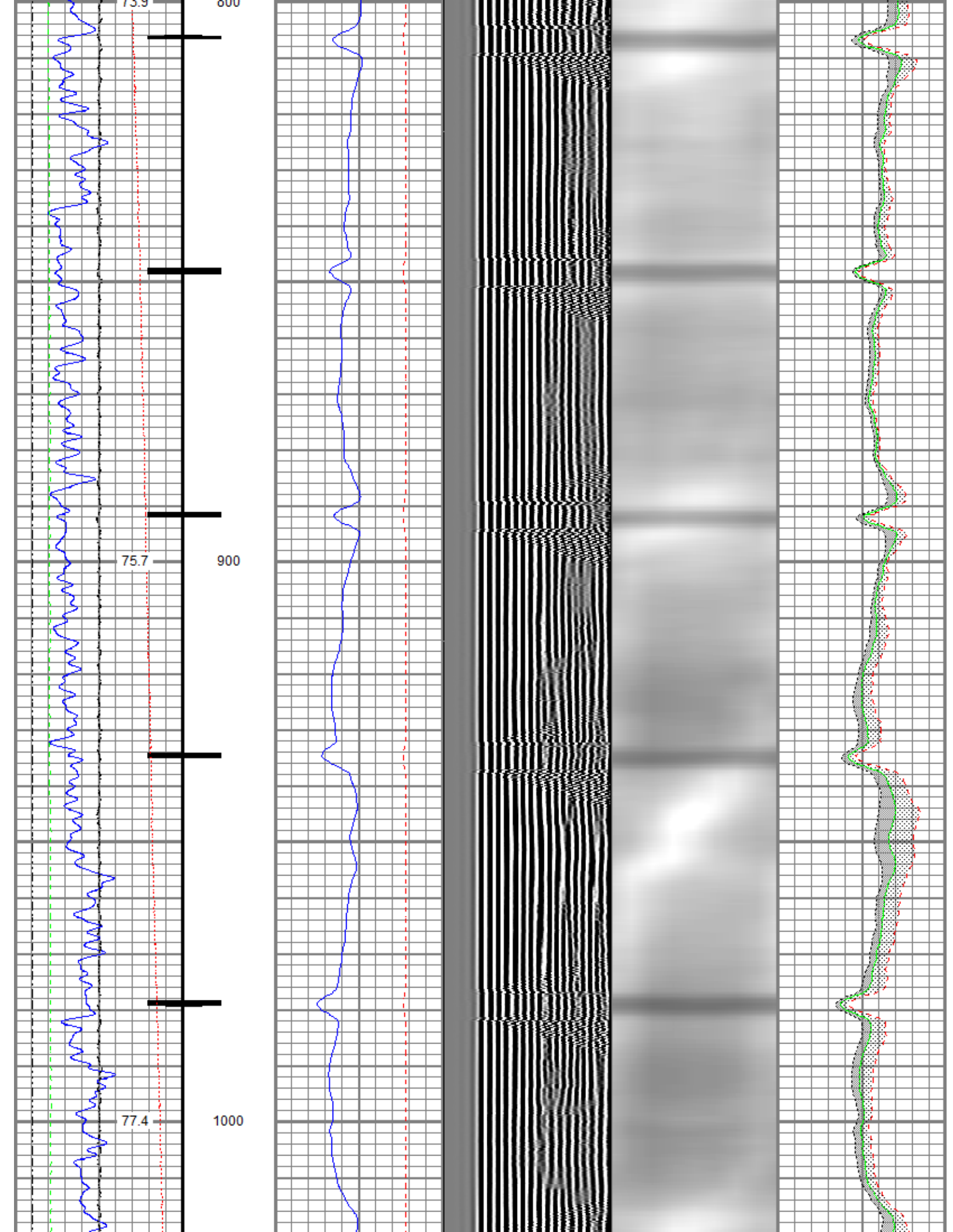
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator		0 (mV) 20			0	100
0 Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed		650 (usec) 150			0	100
-150 (ft/min) 150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

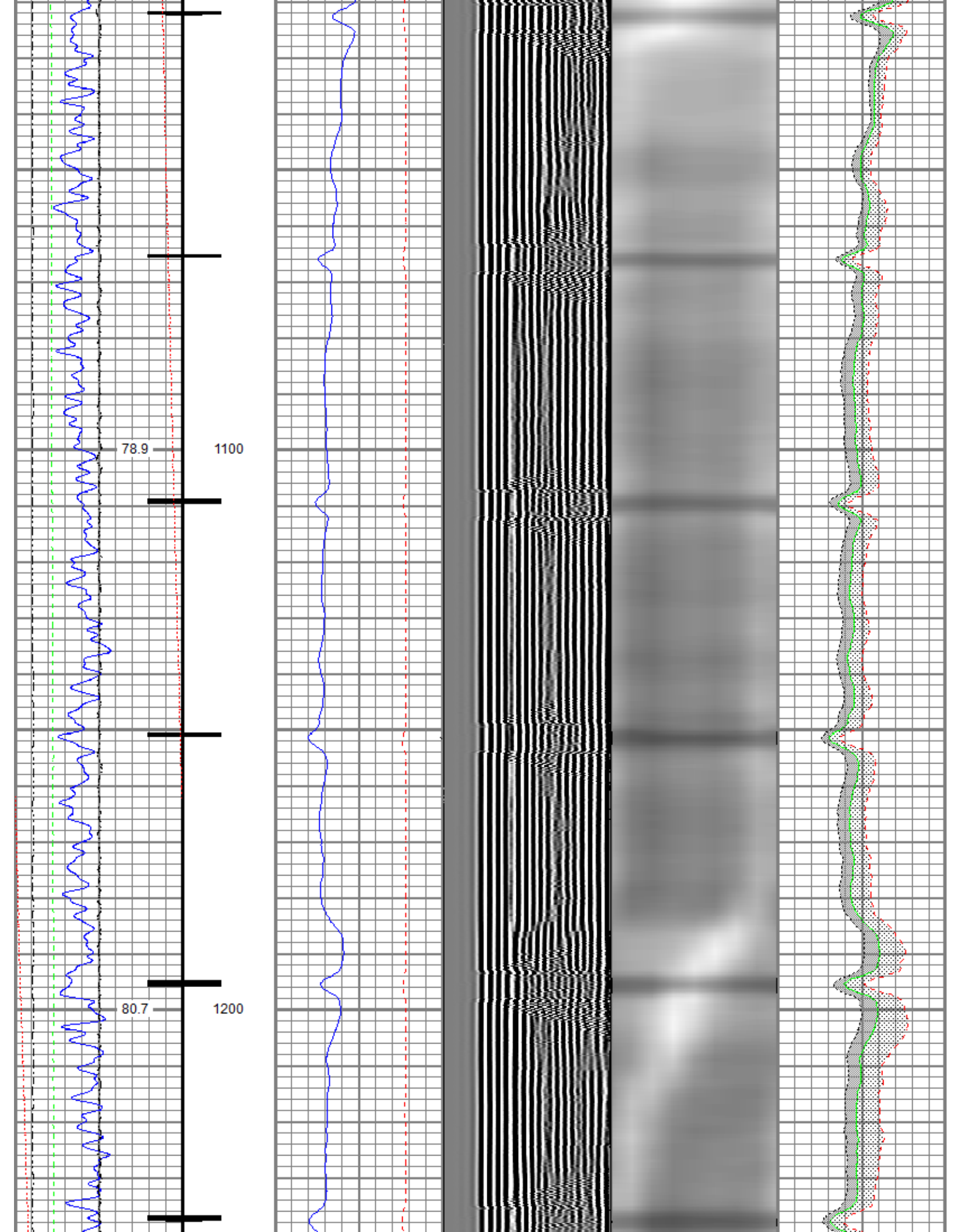


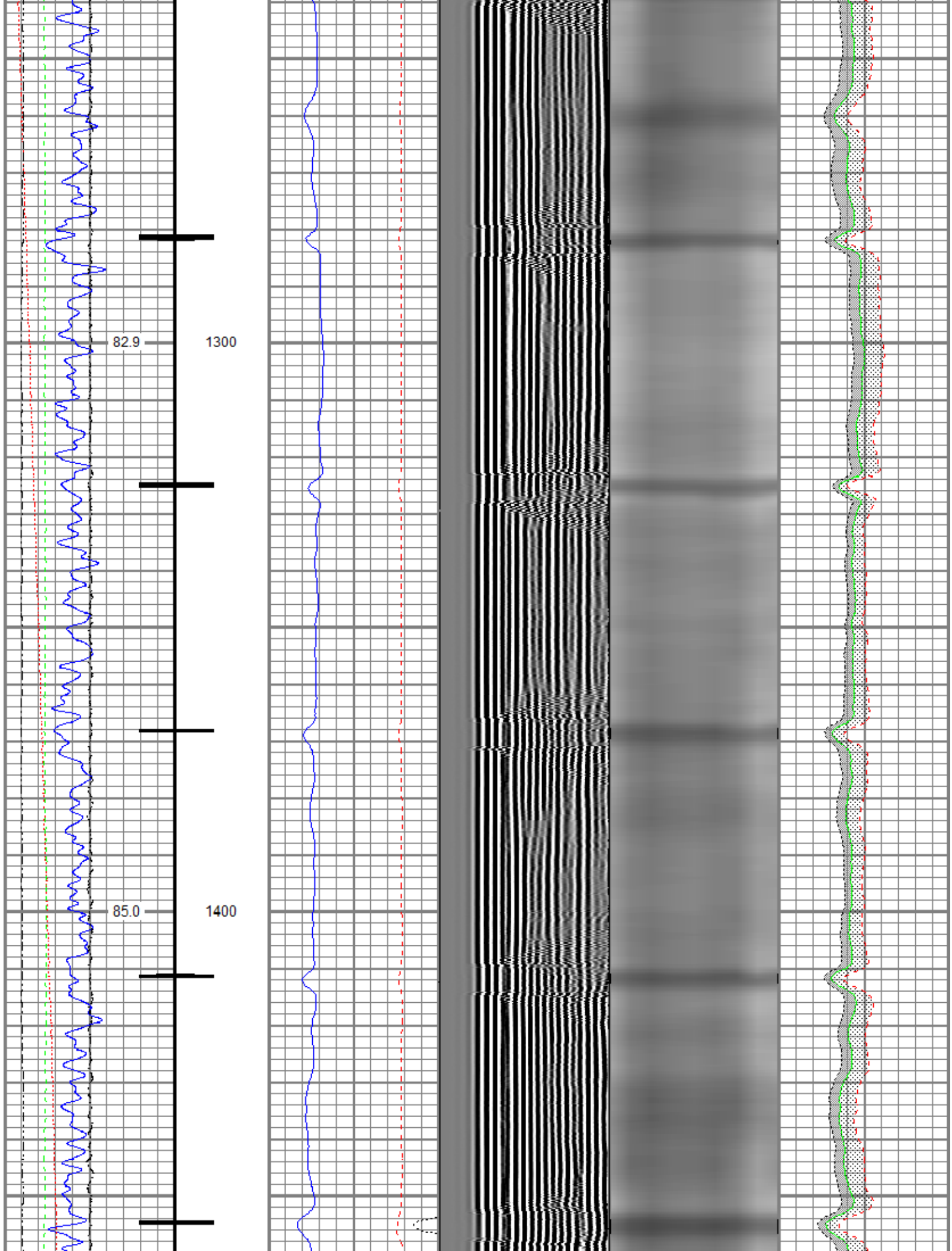


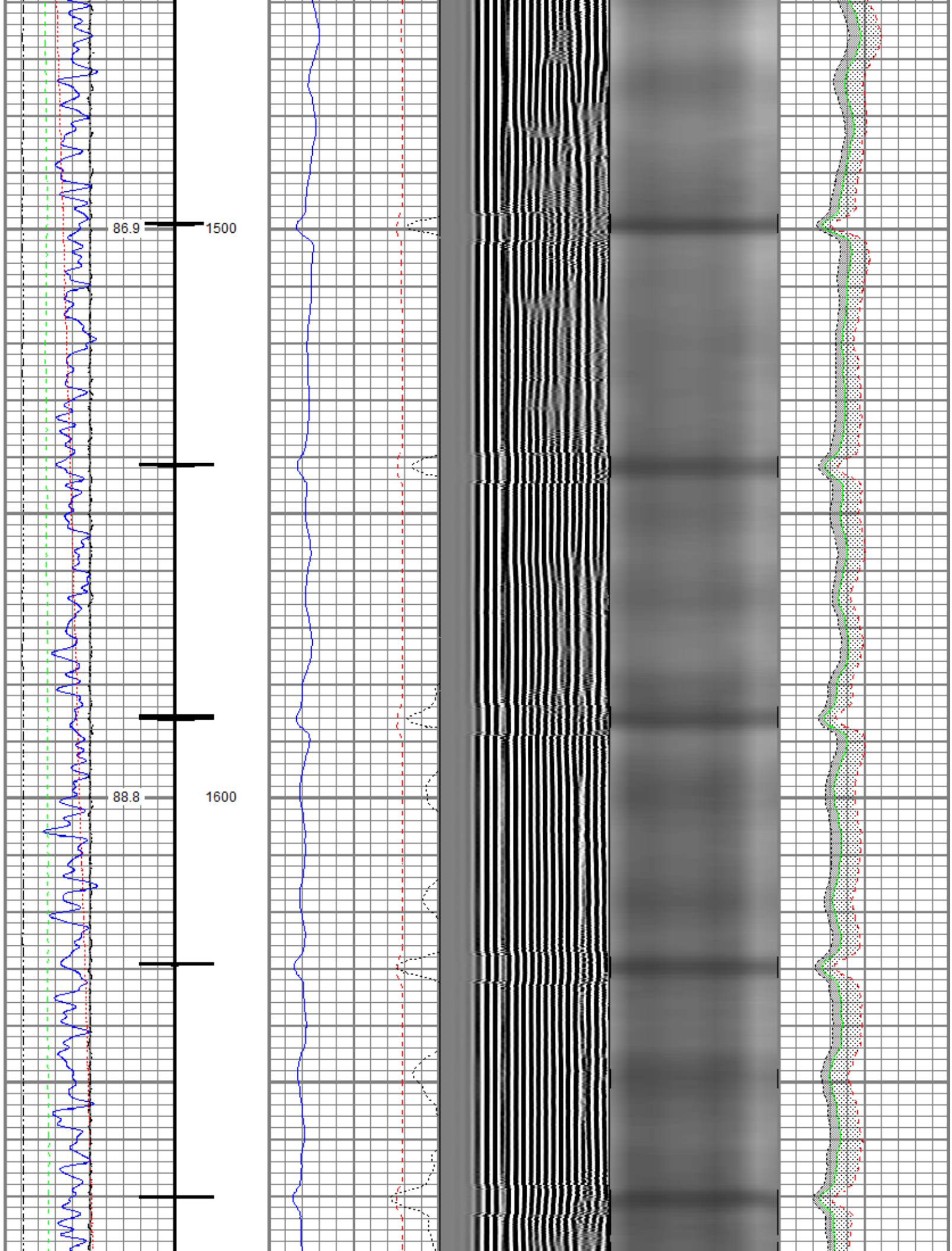


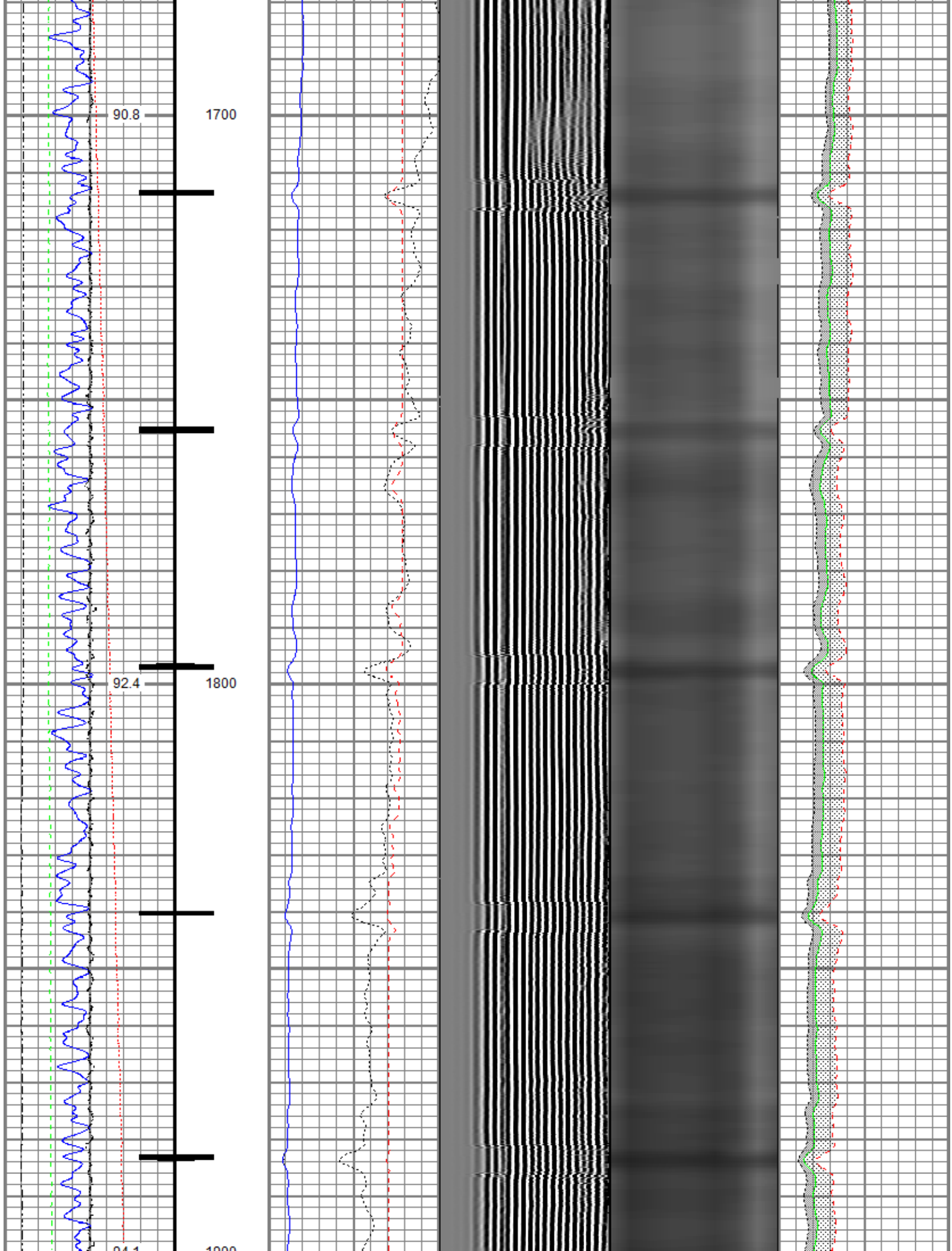


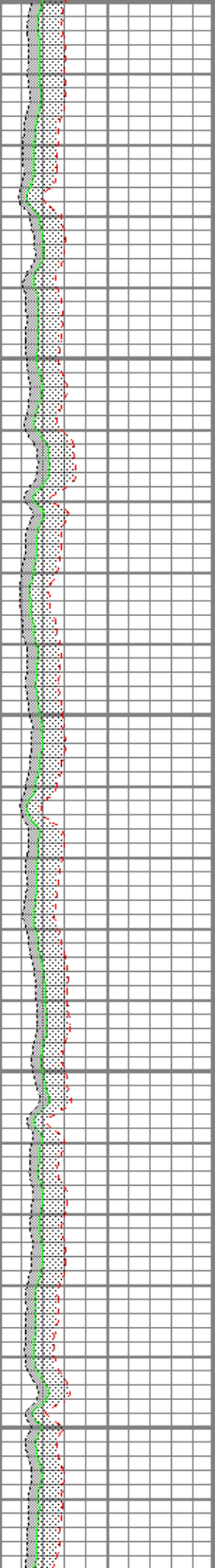
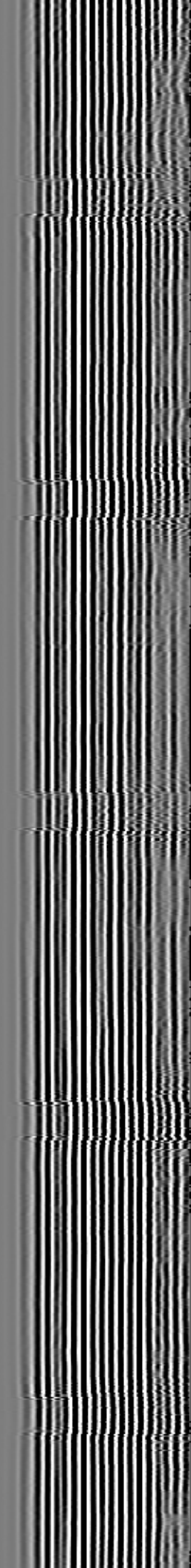
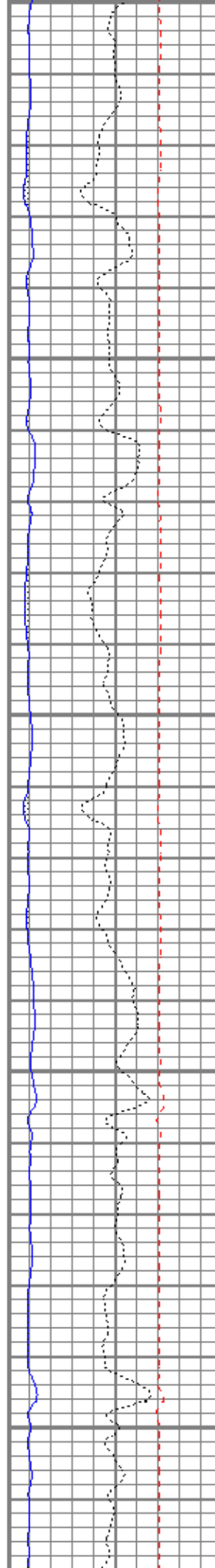
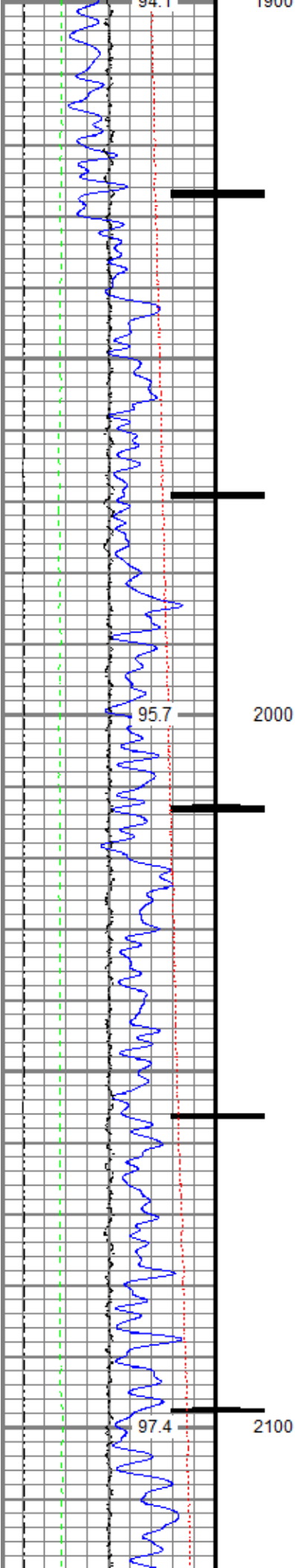


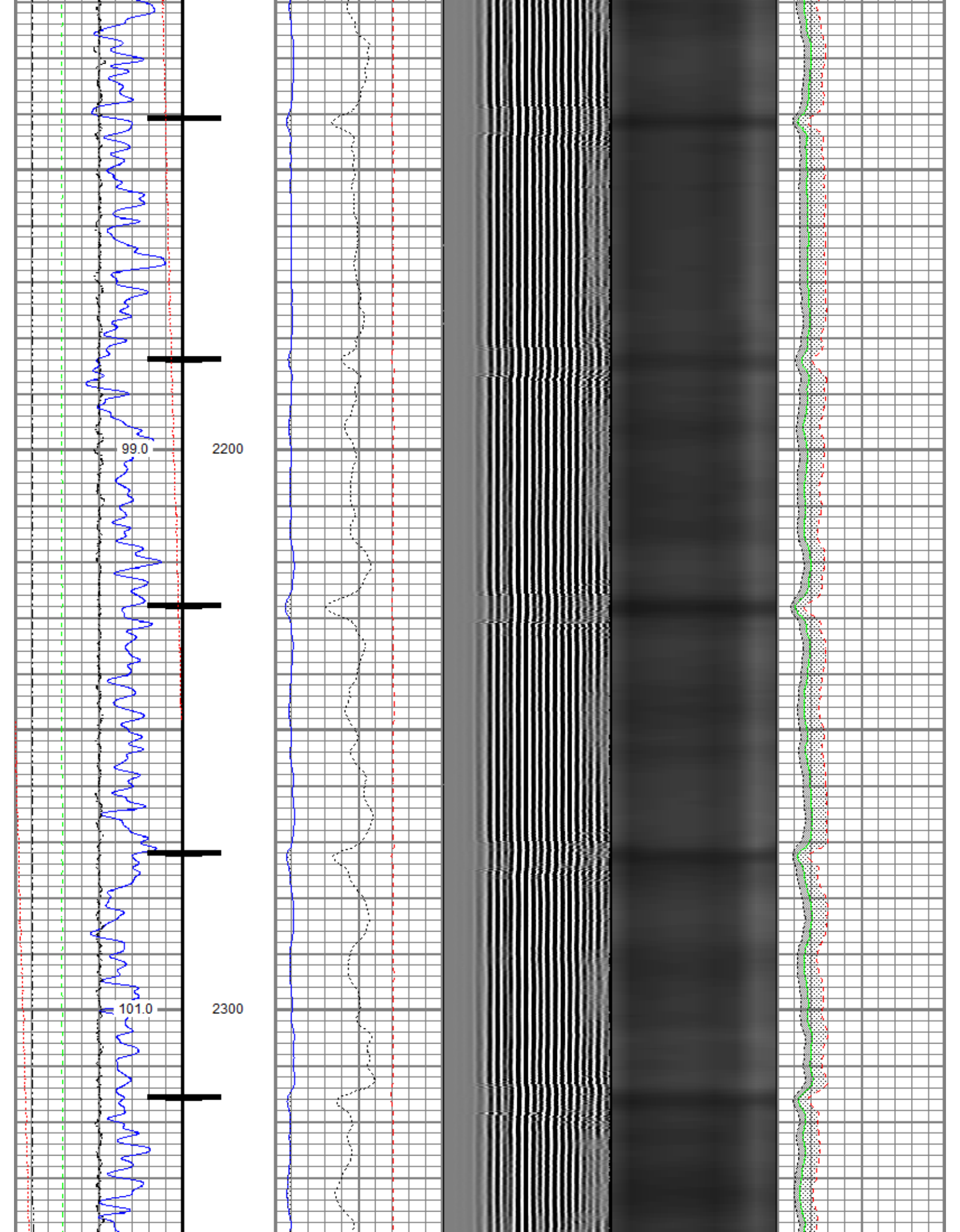


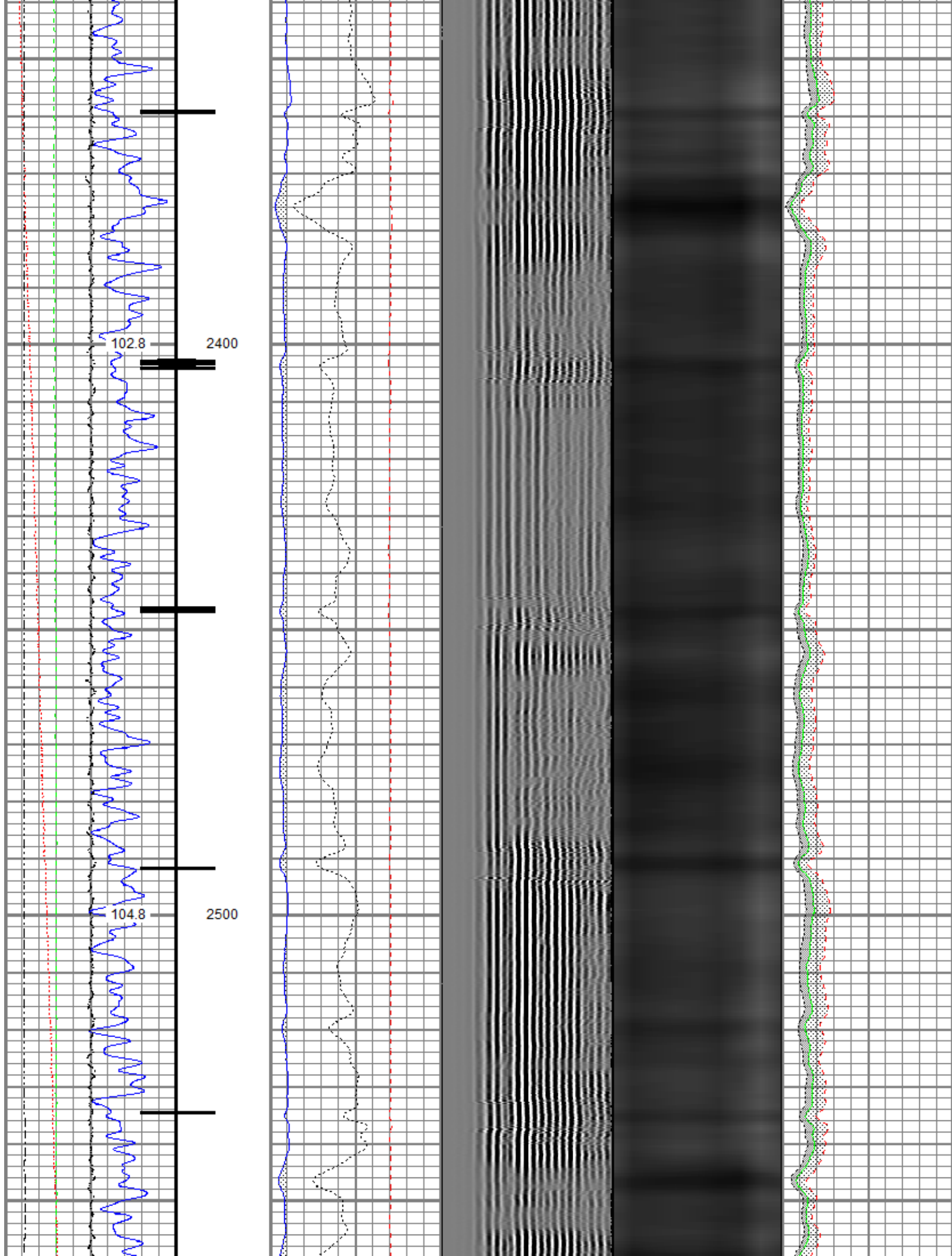


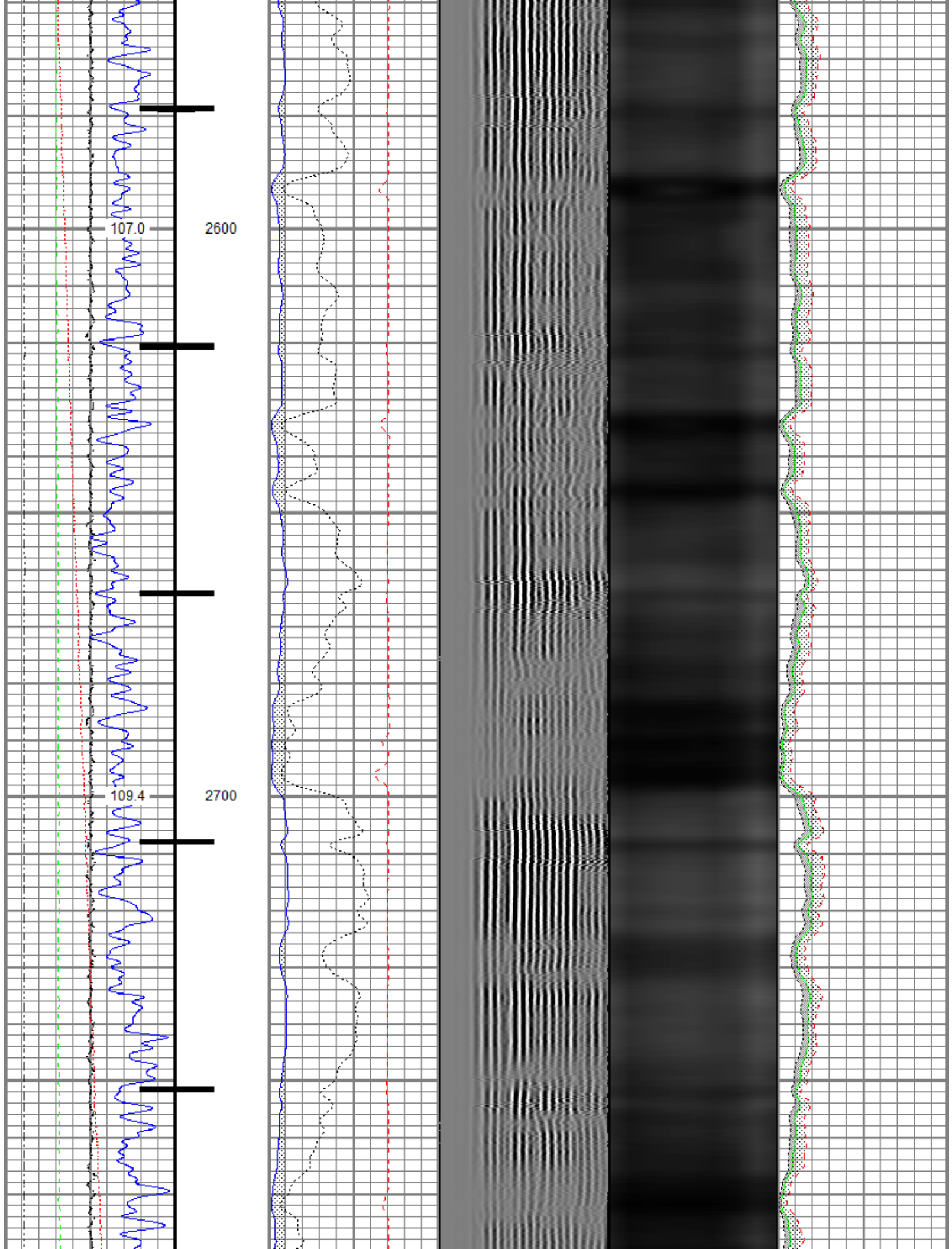


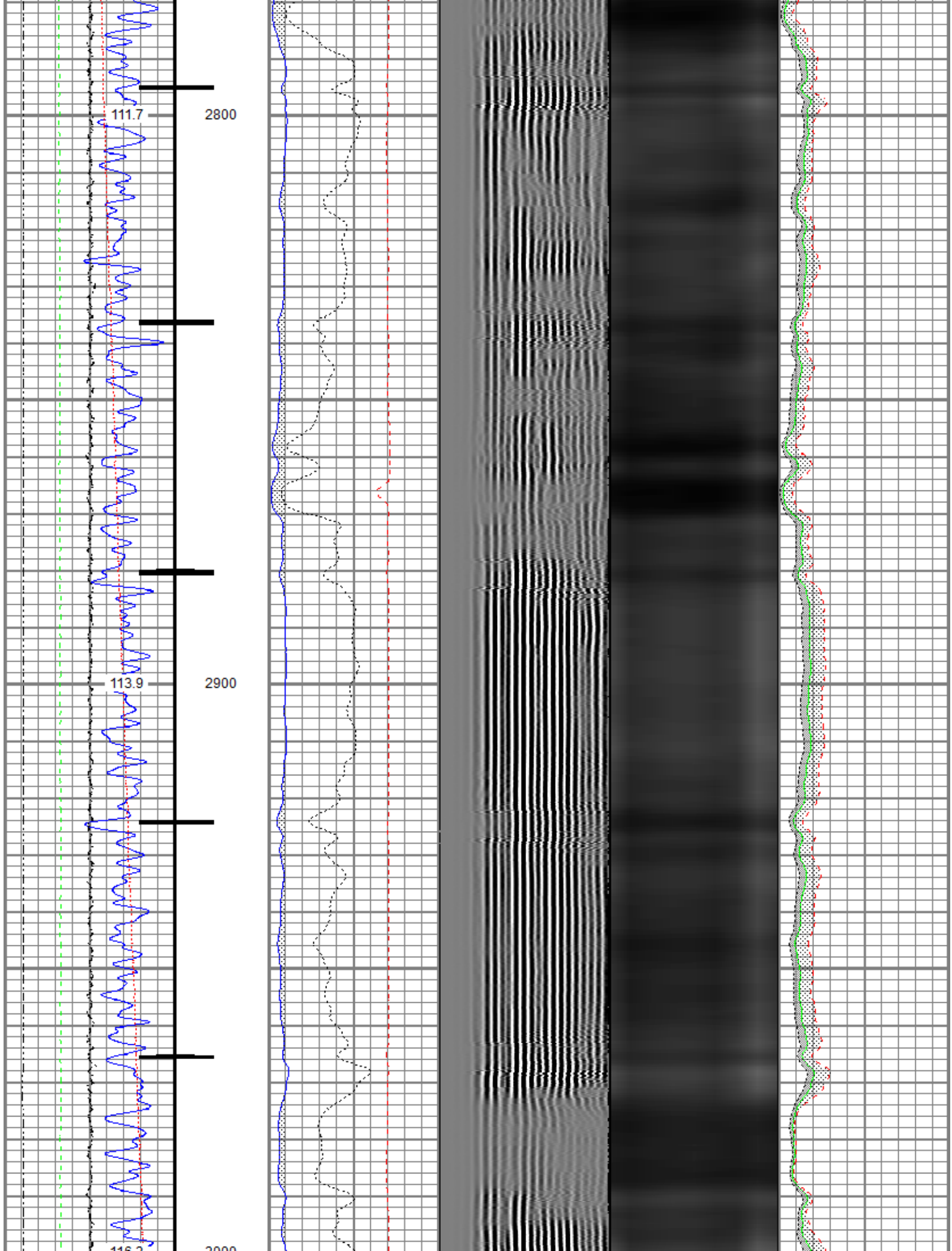


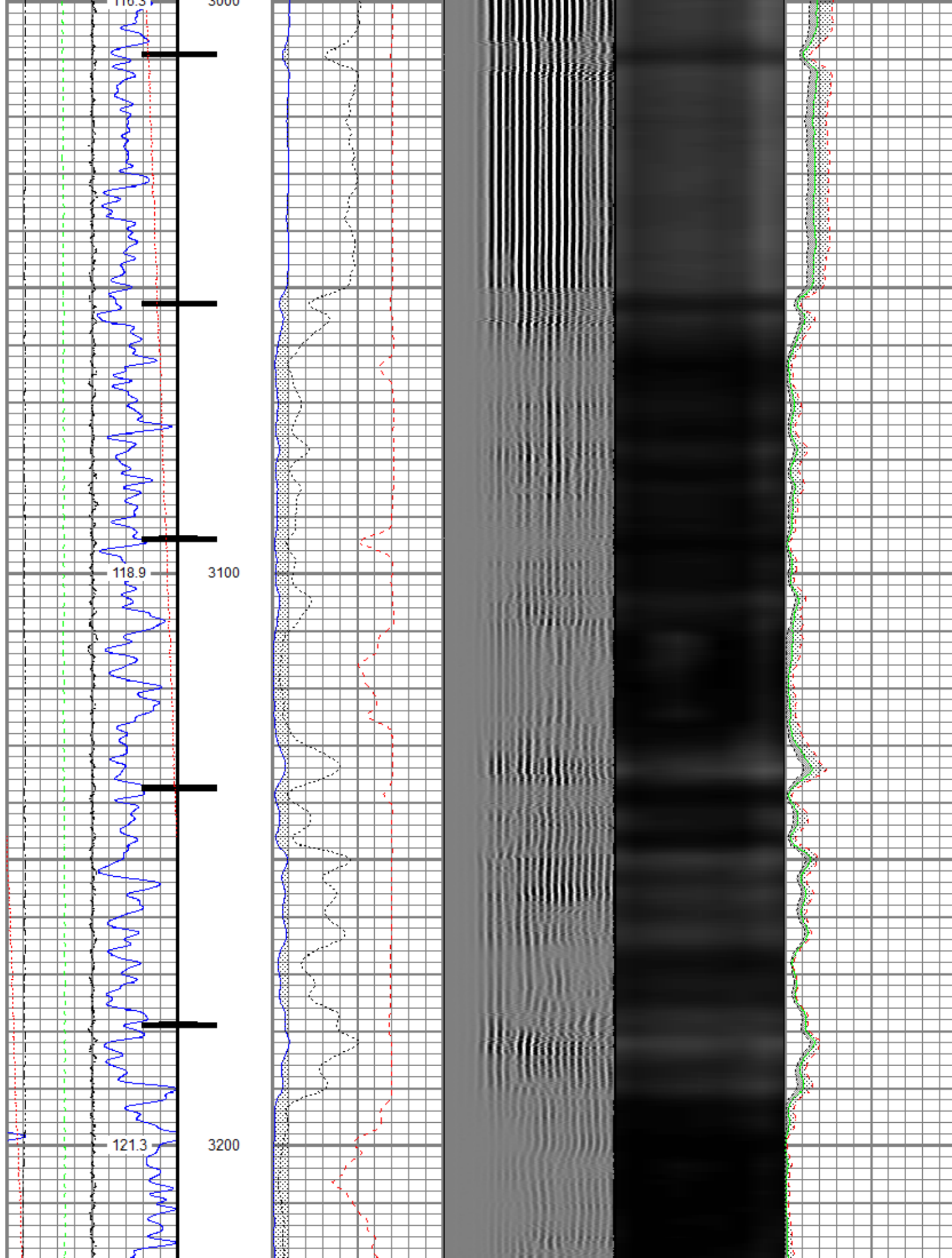


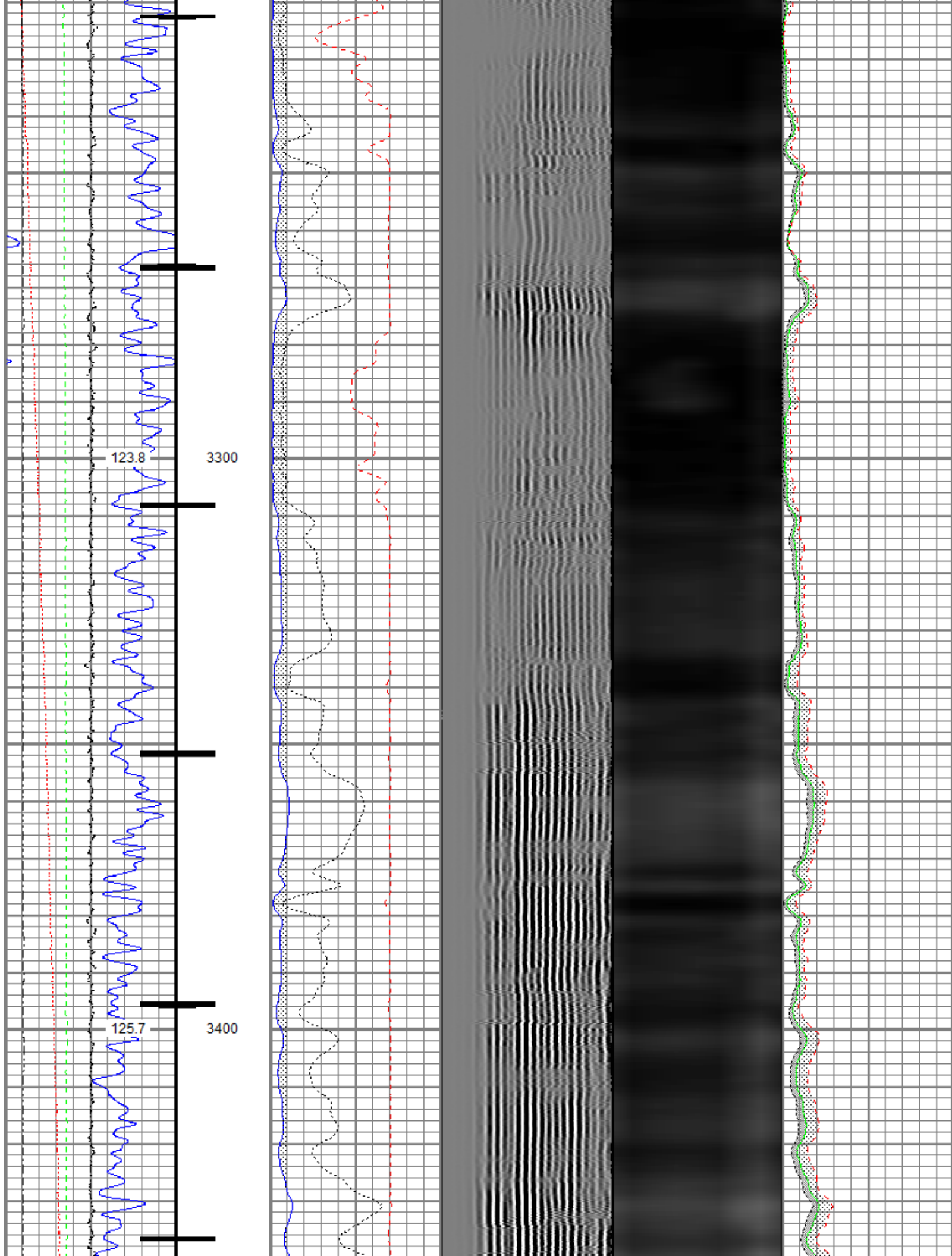


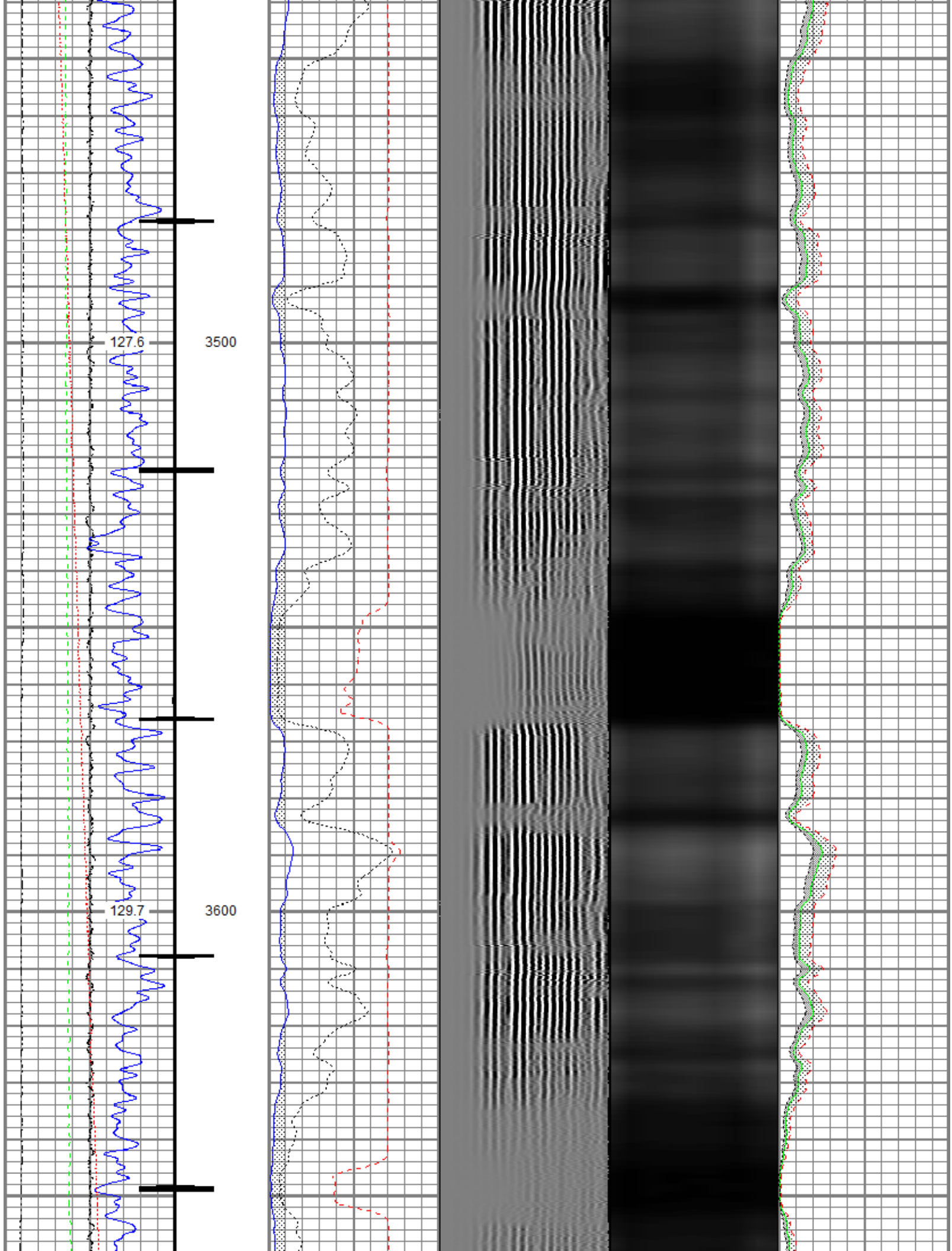


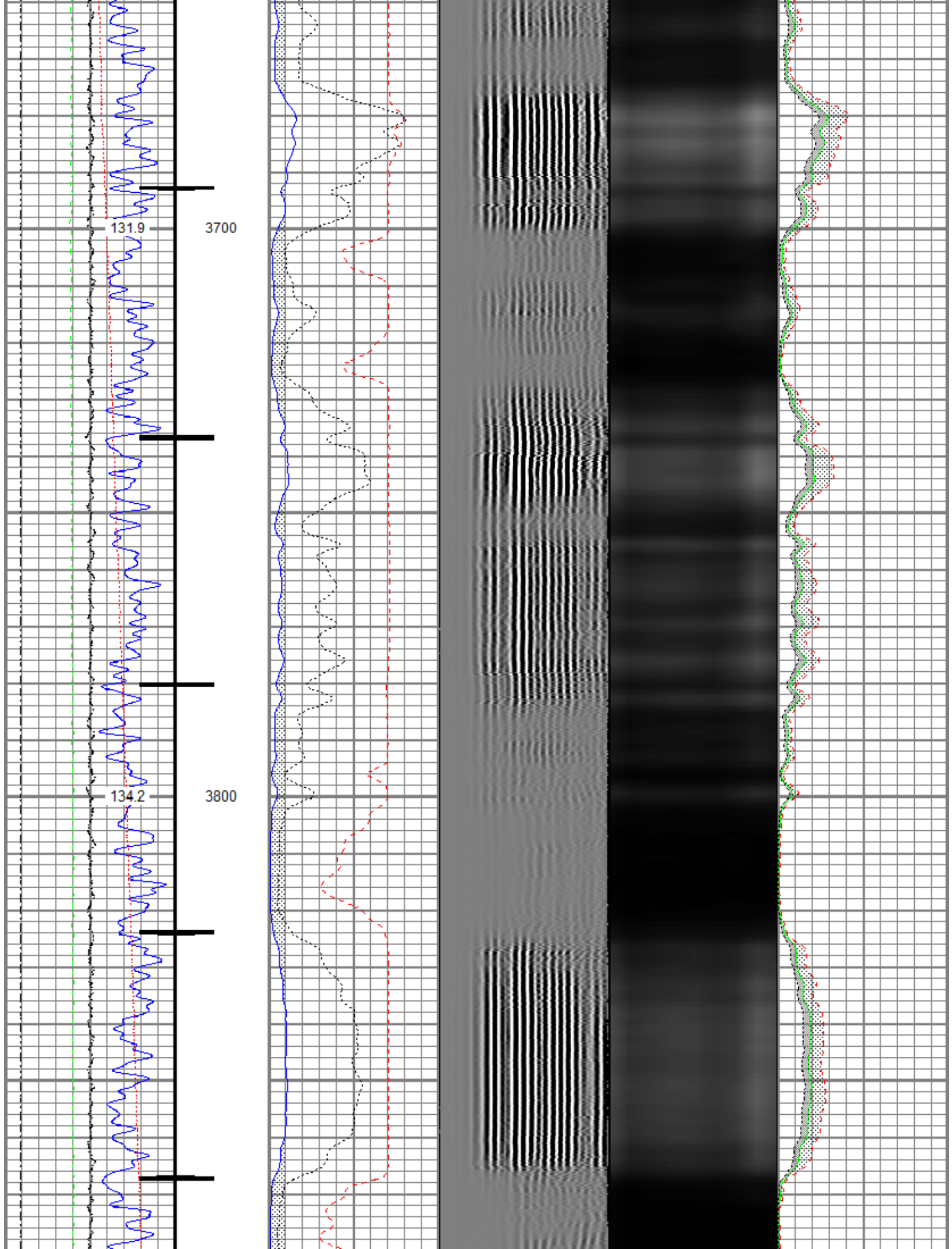


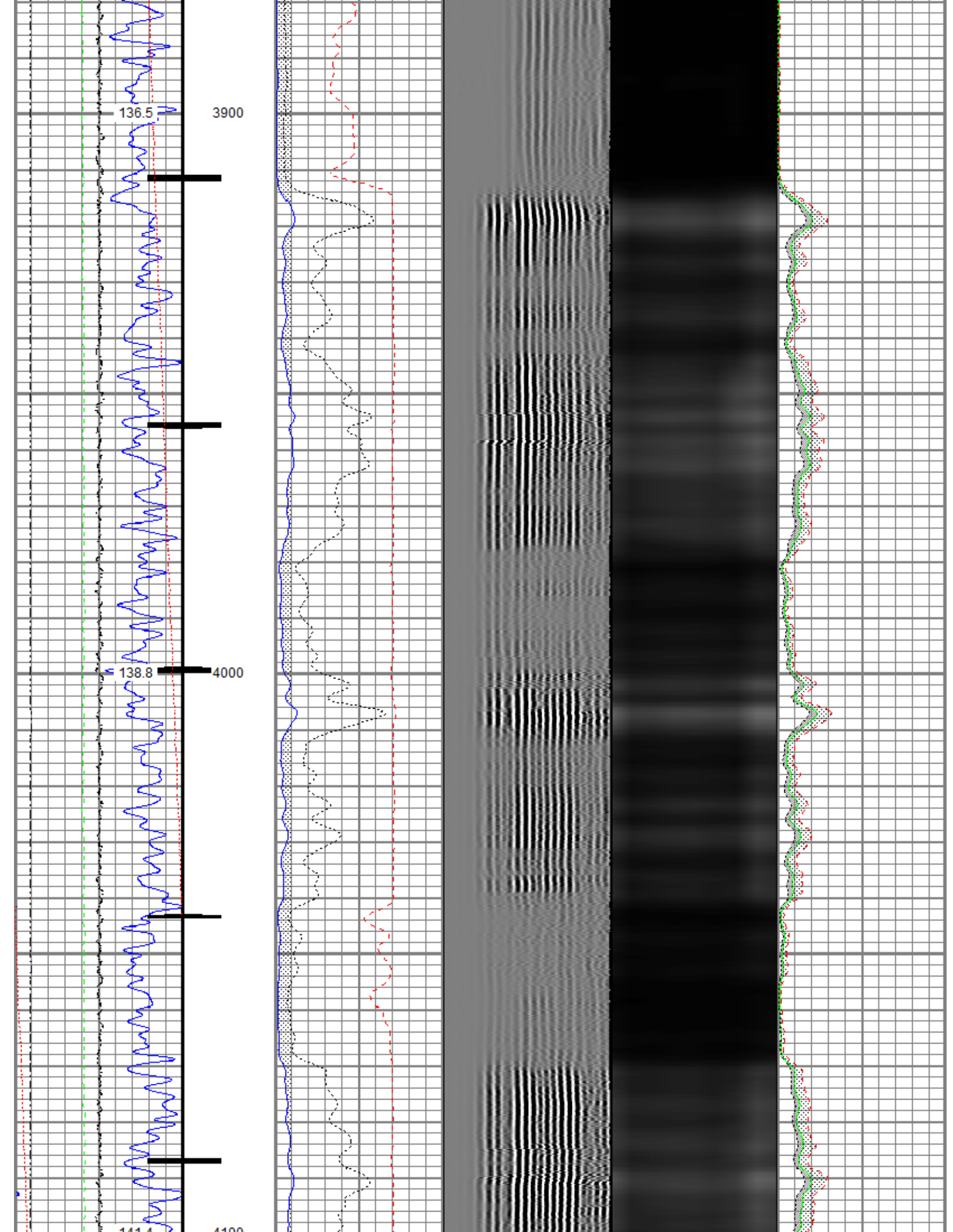


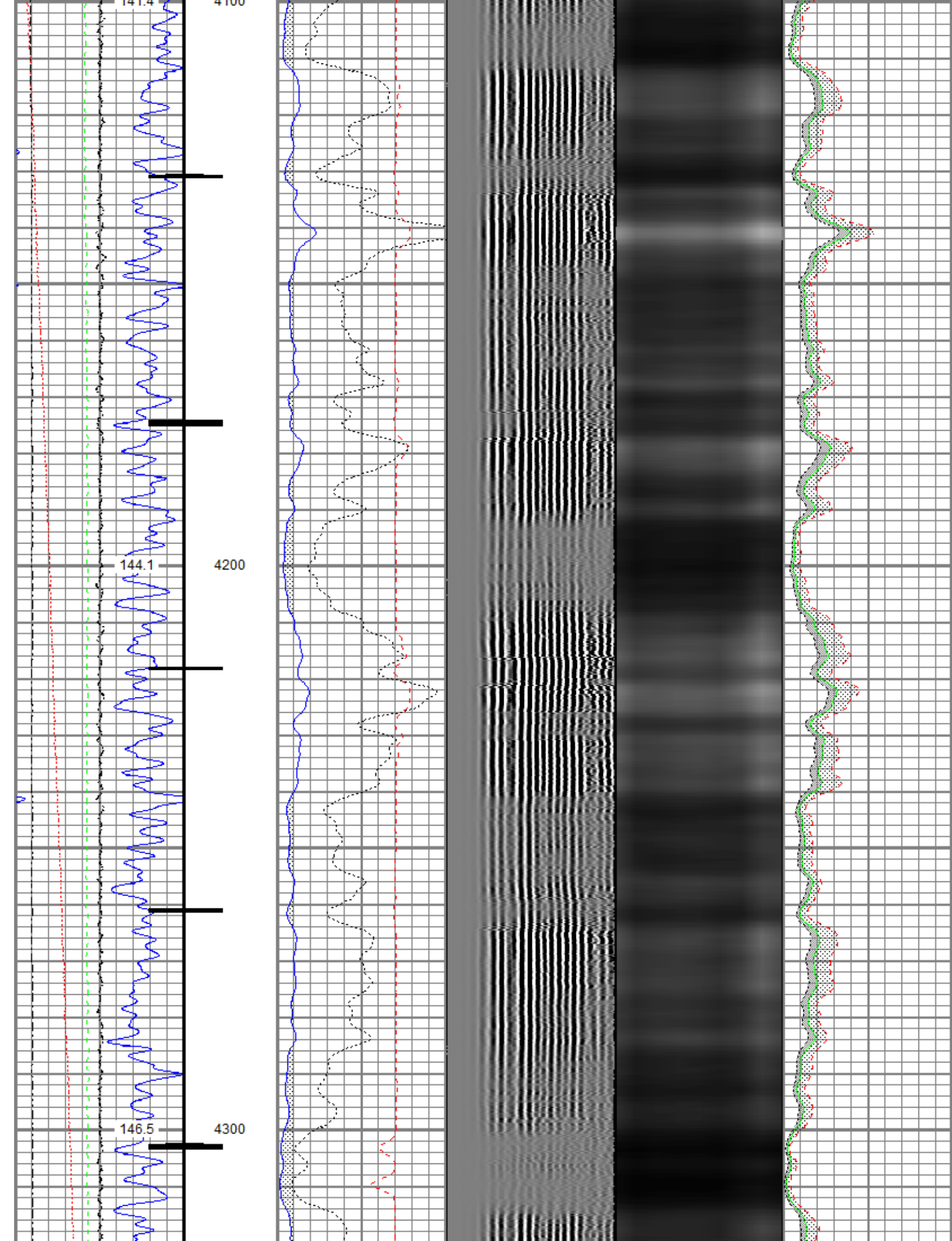


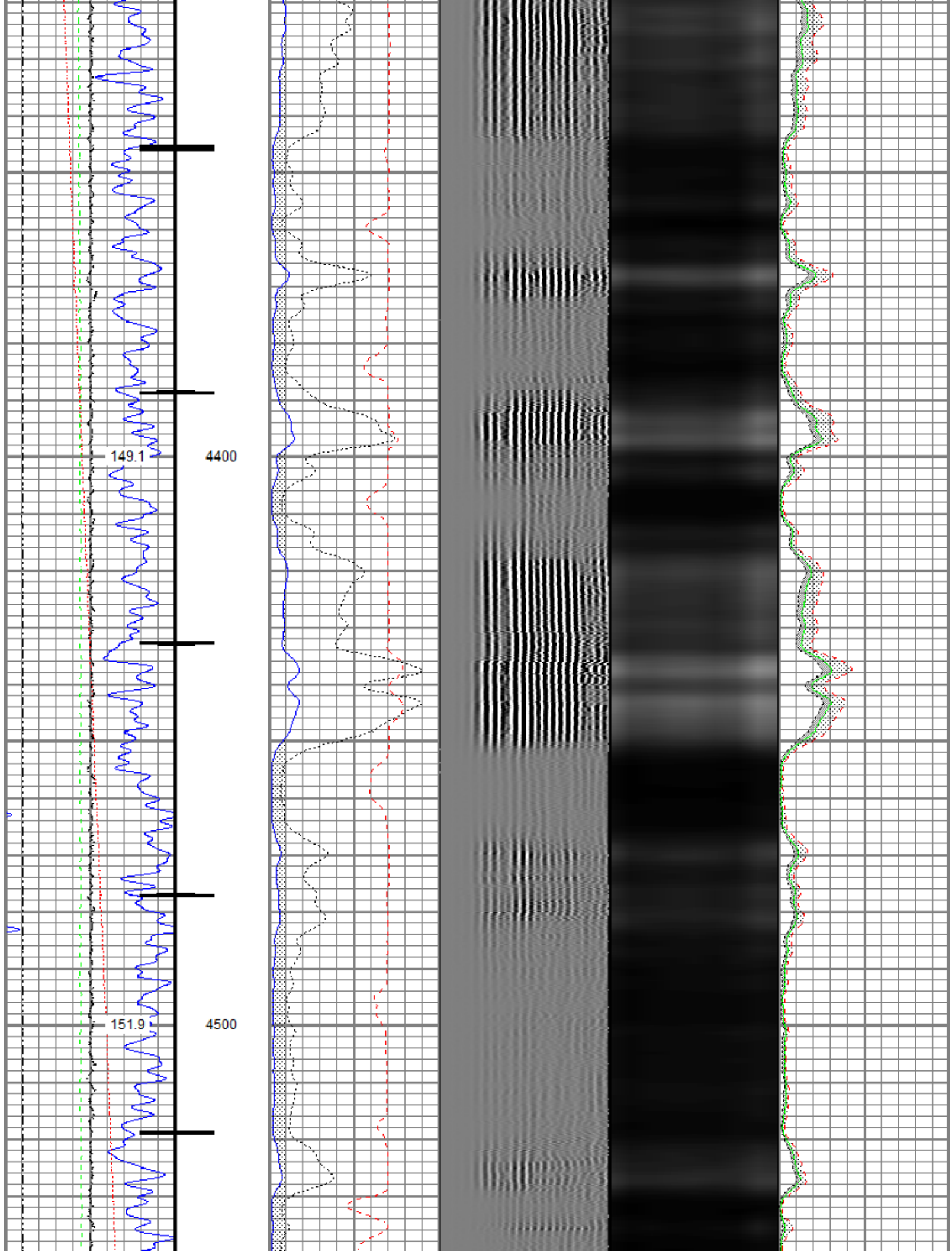


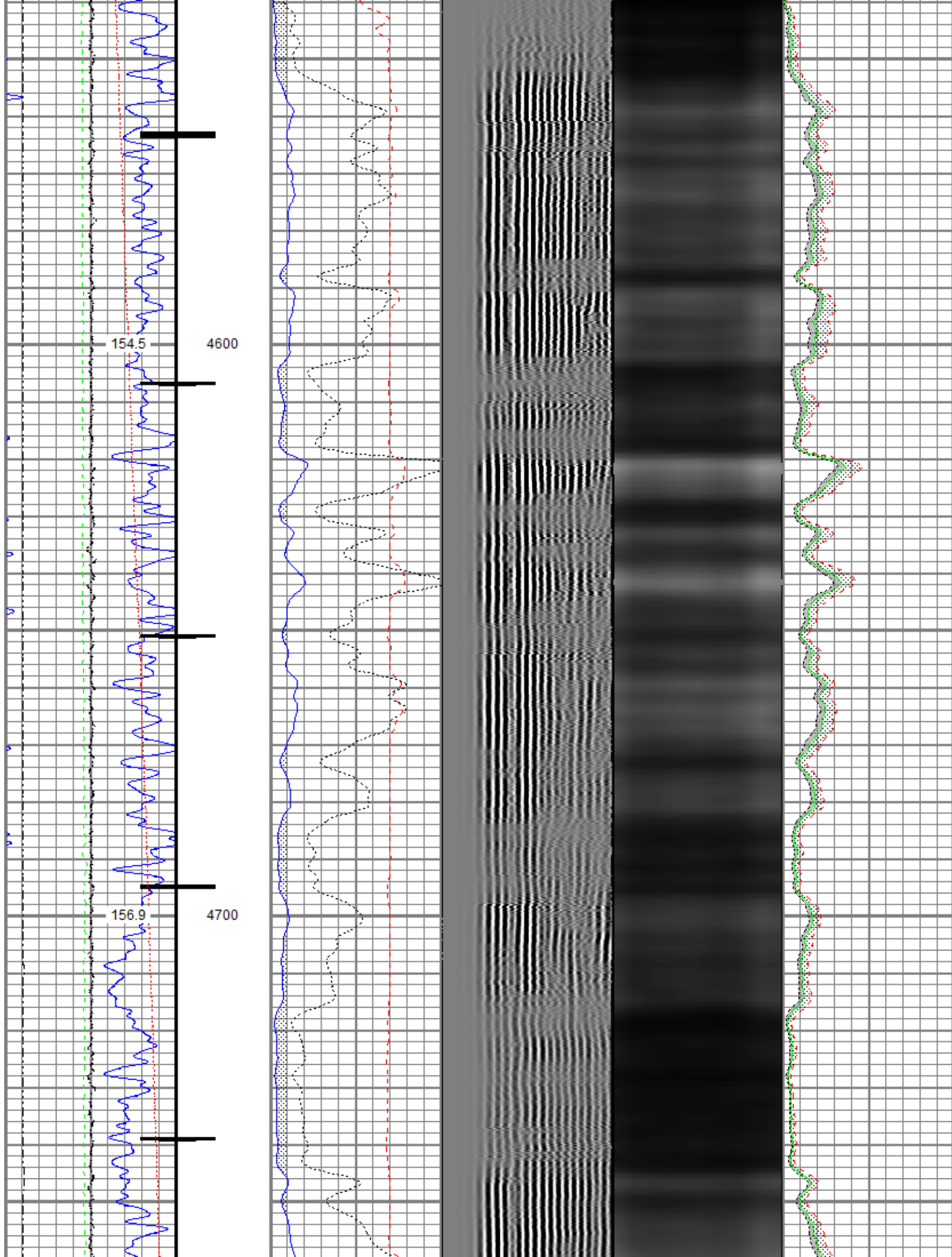


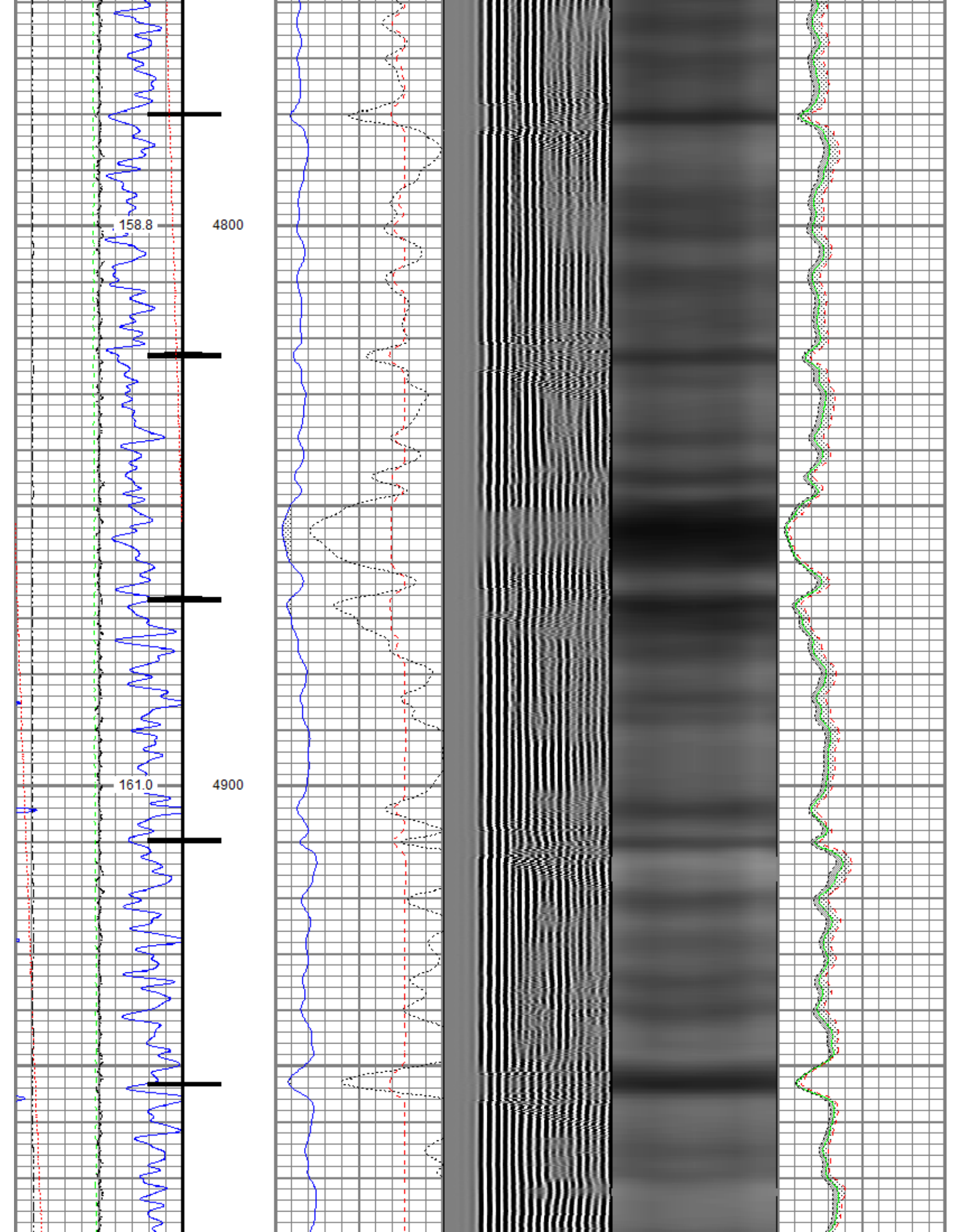


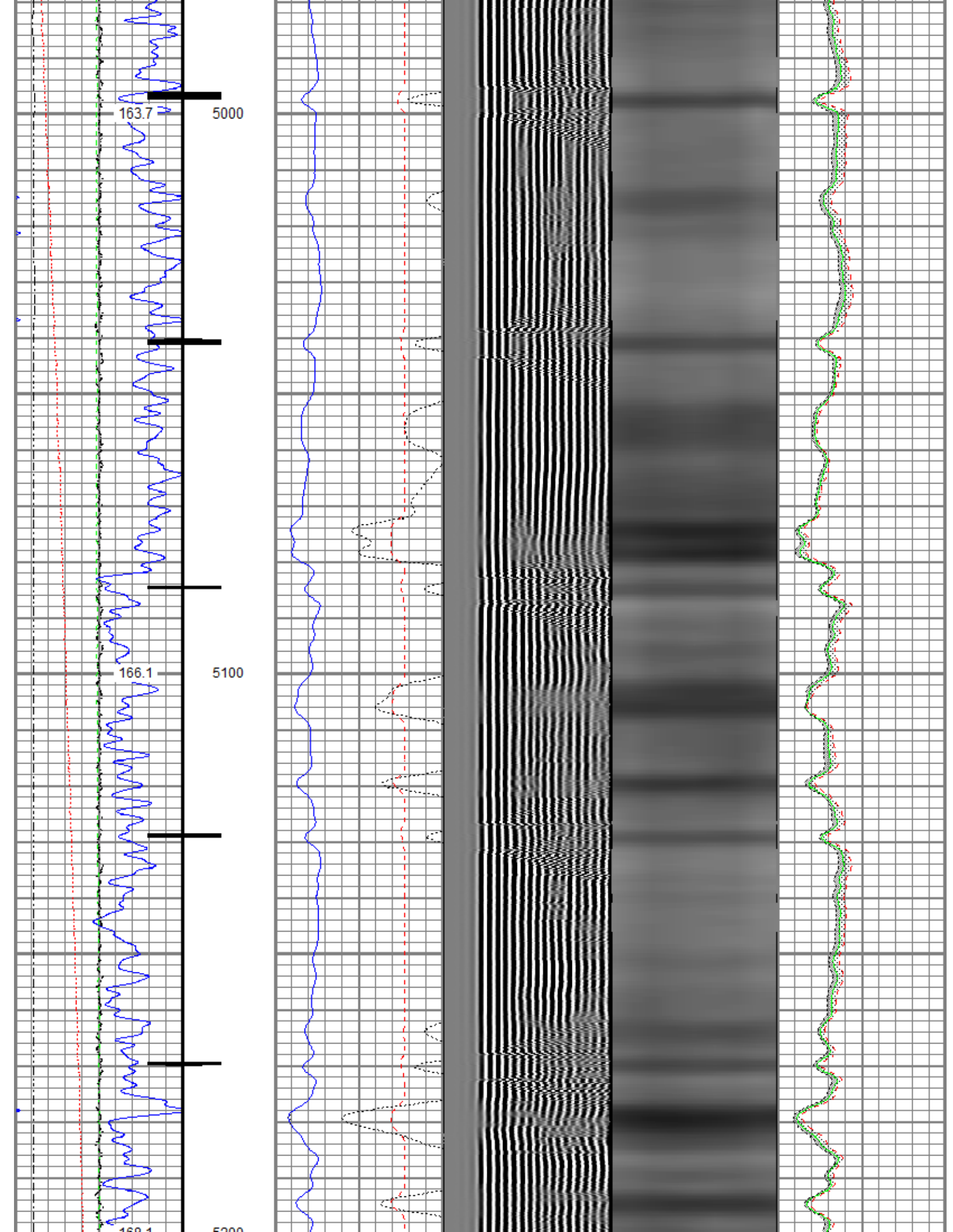


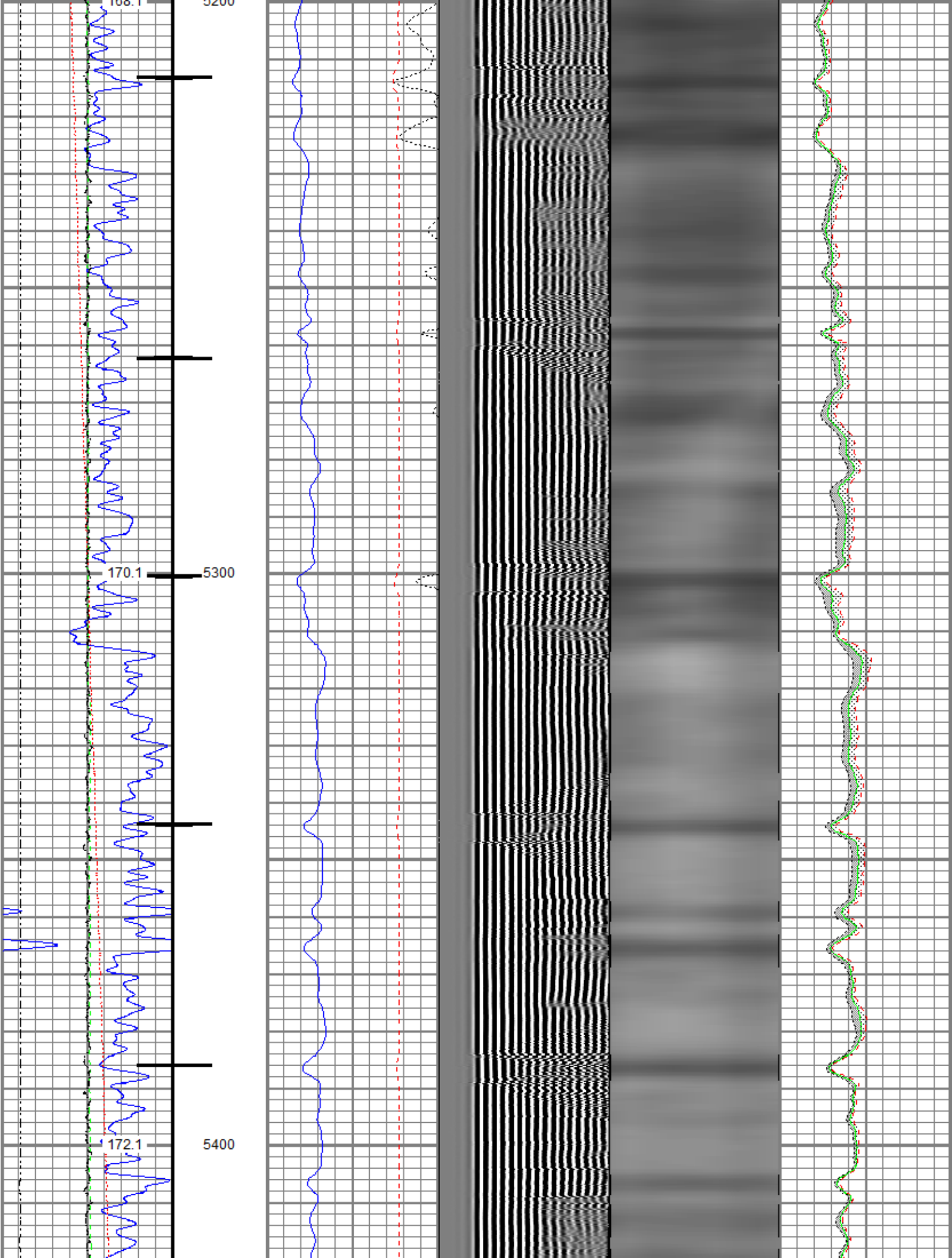


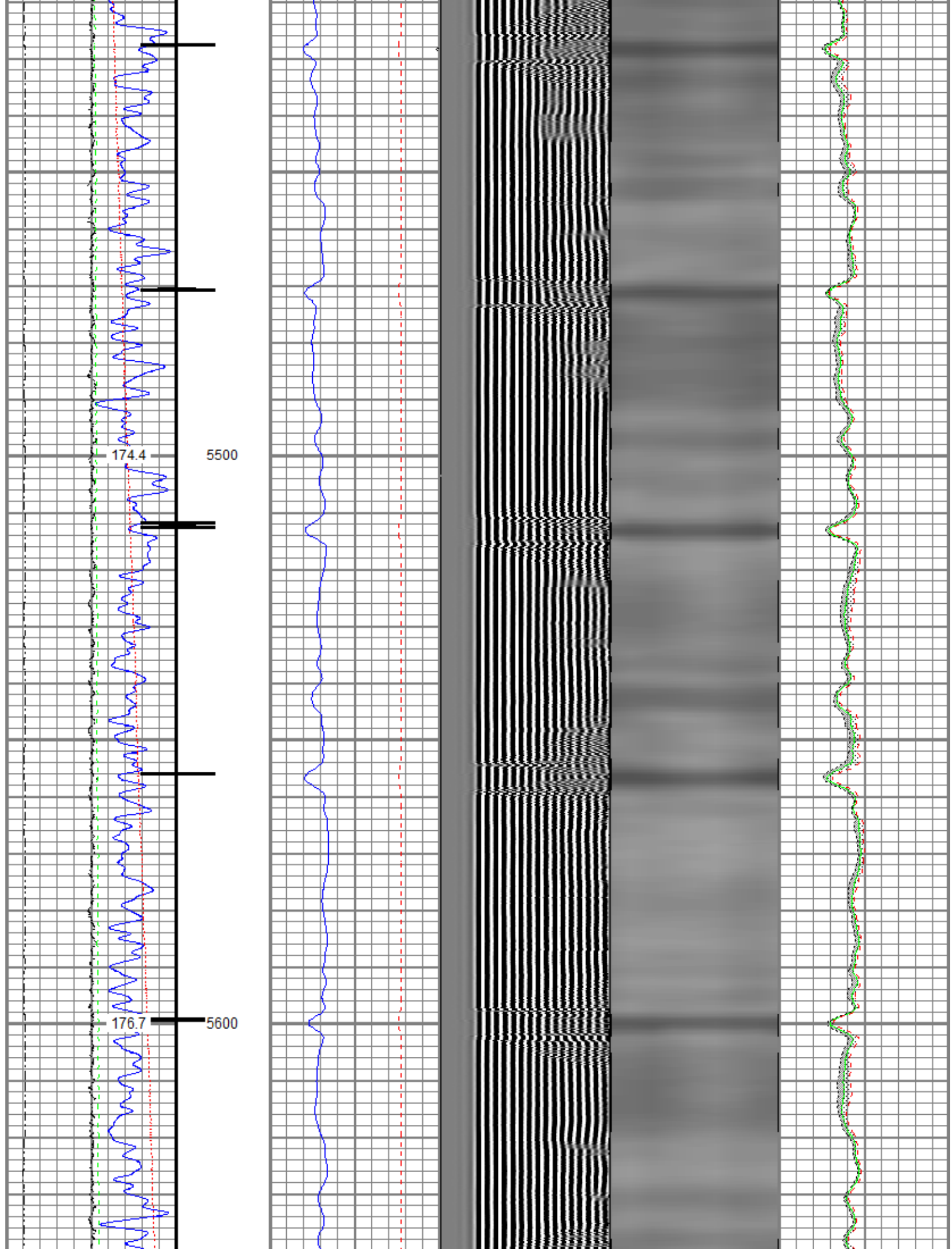


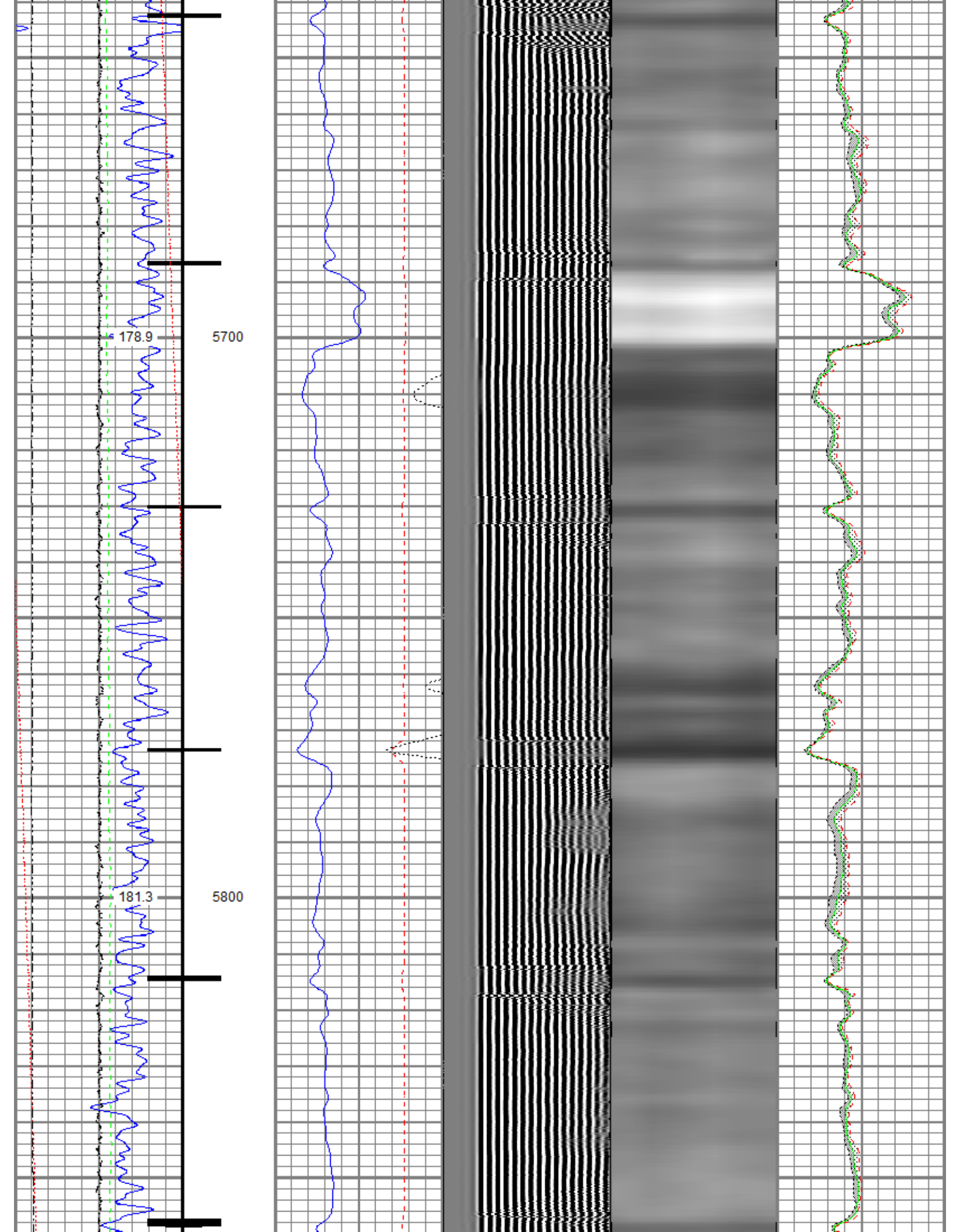


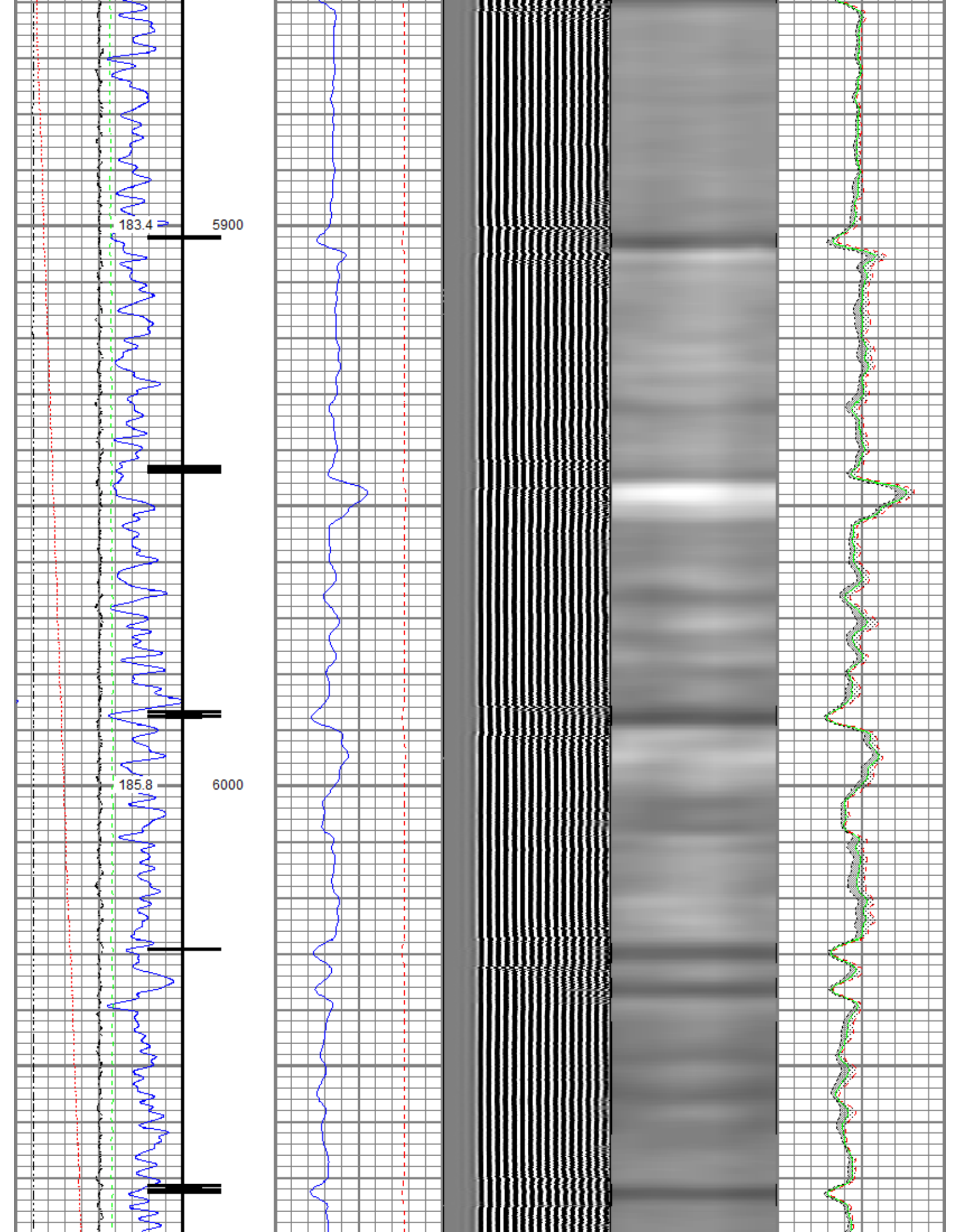


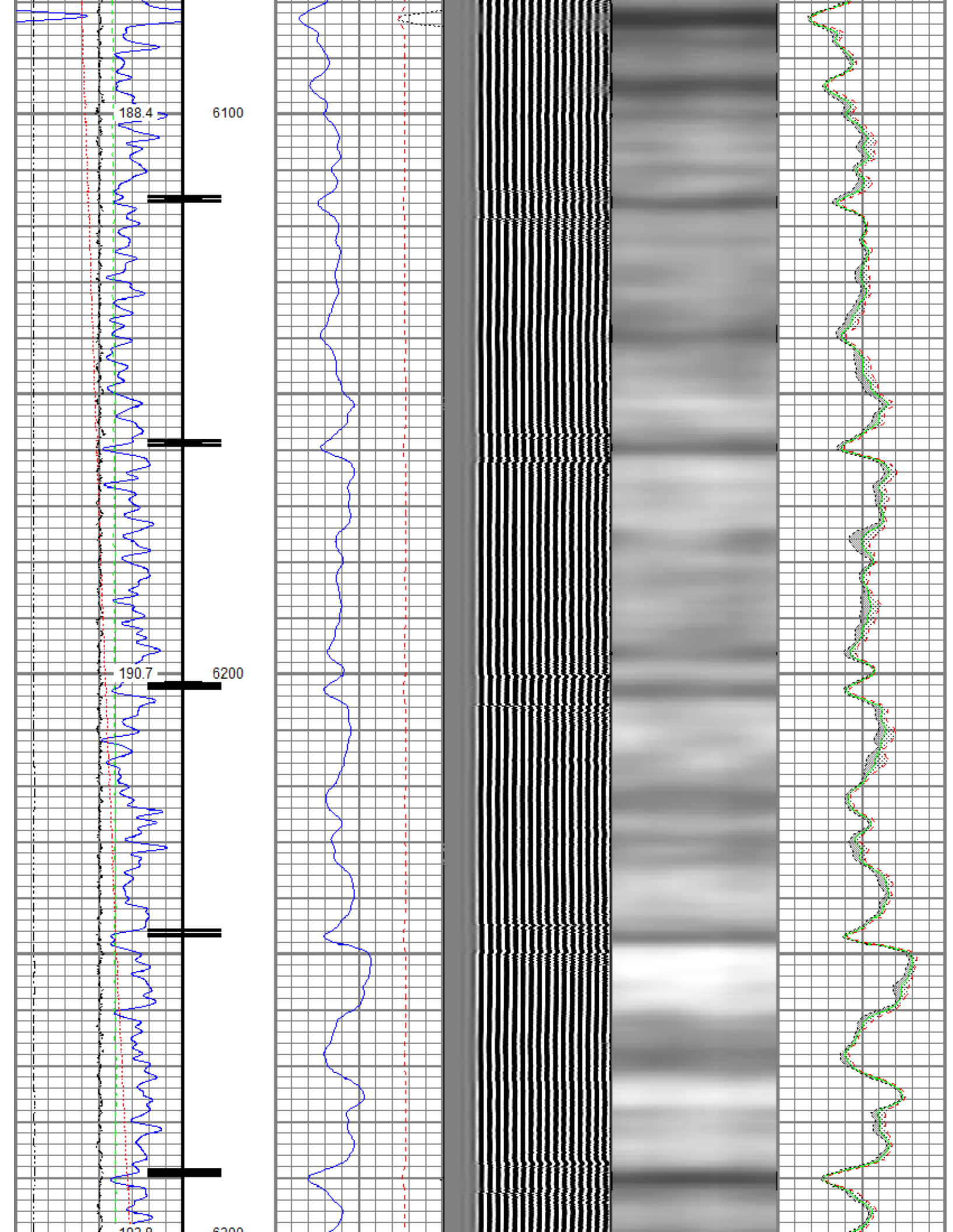


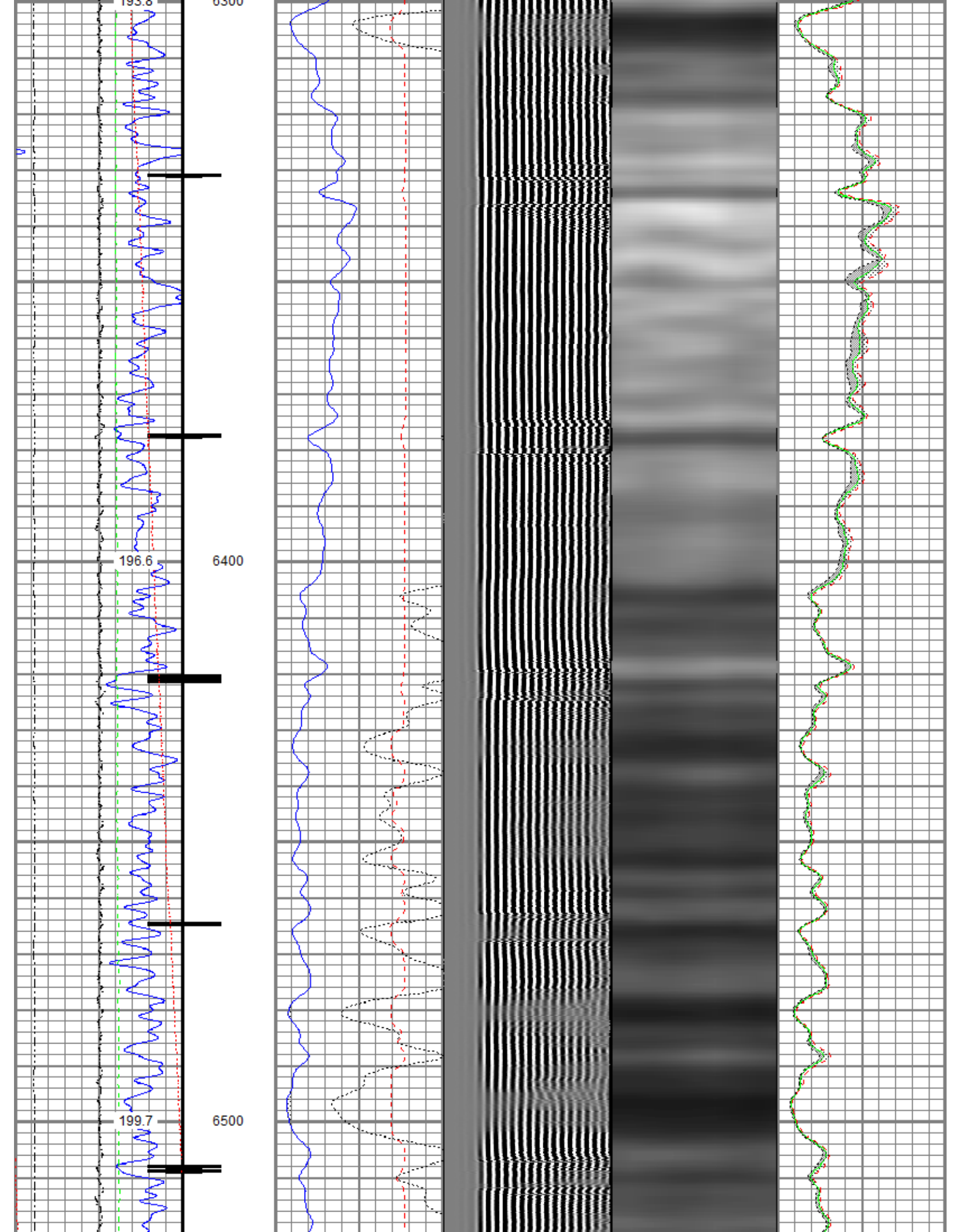


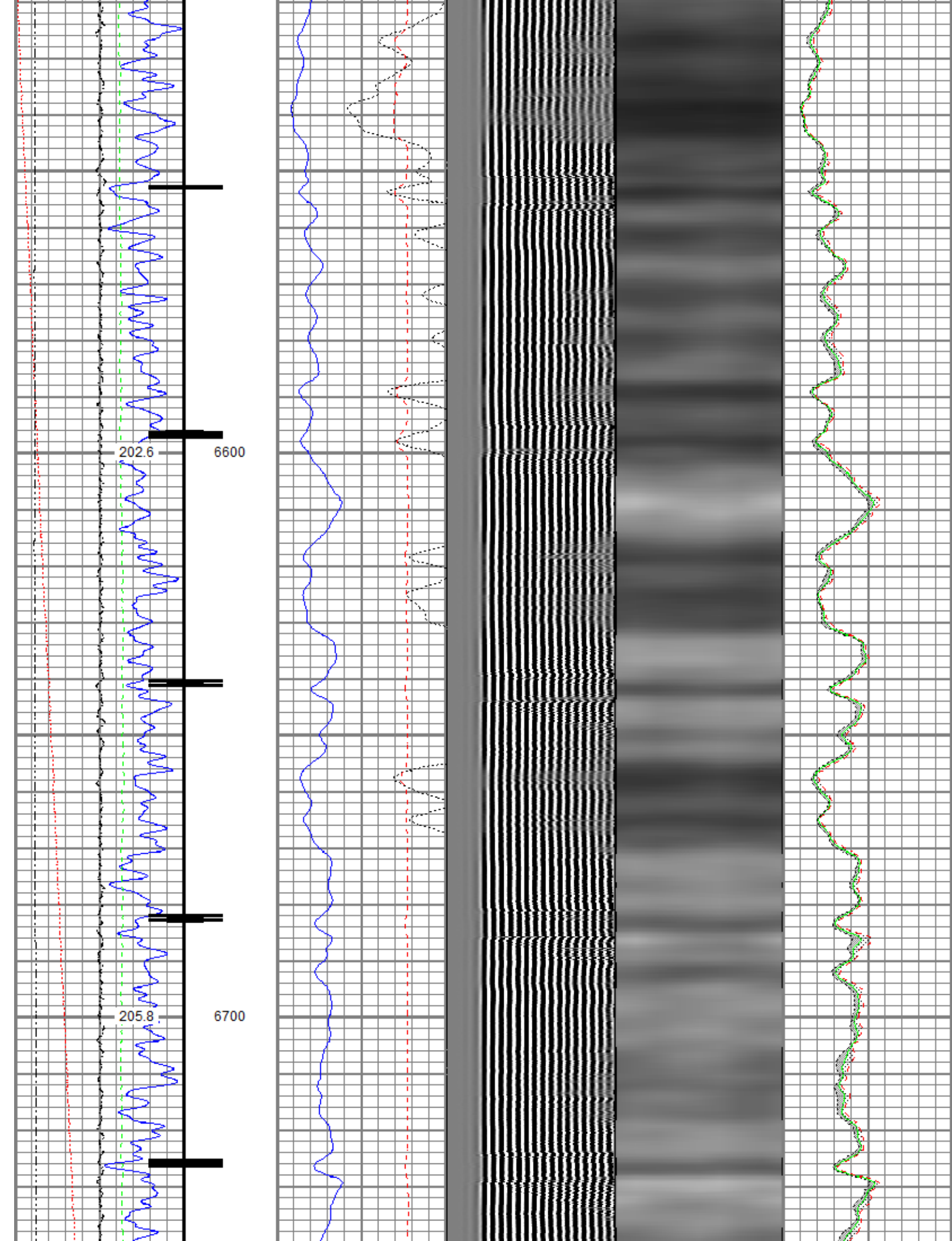


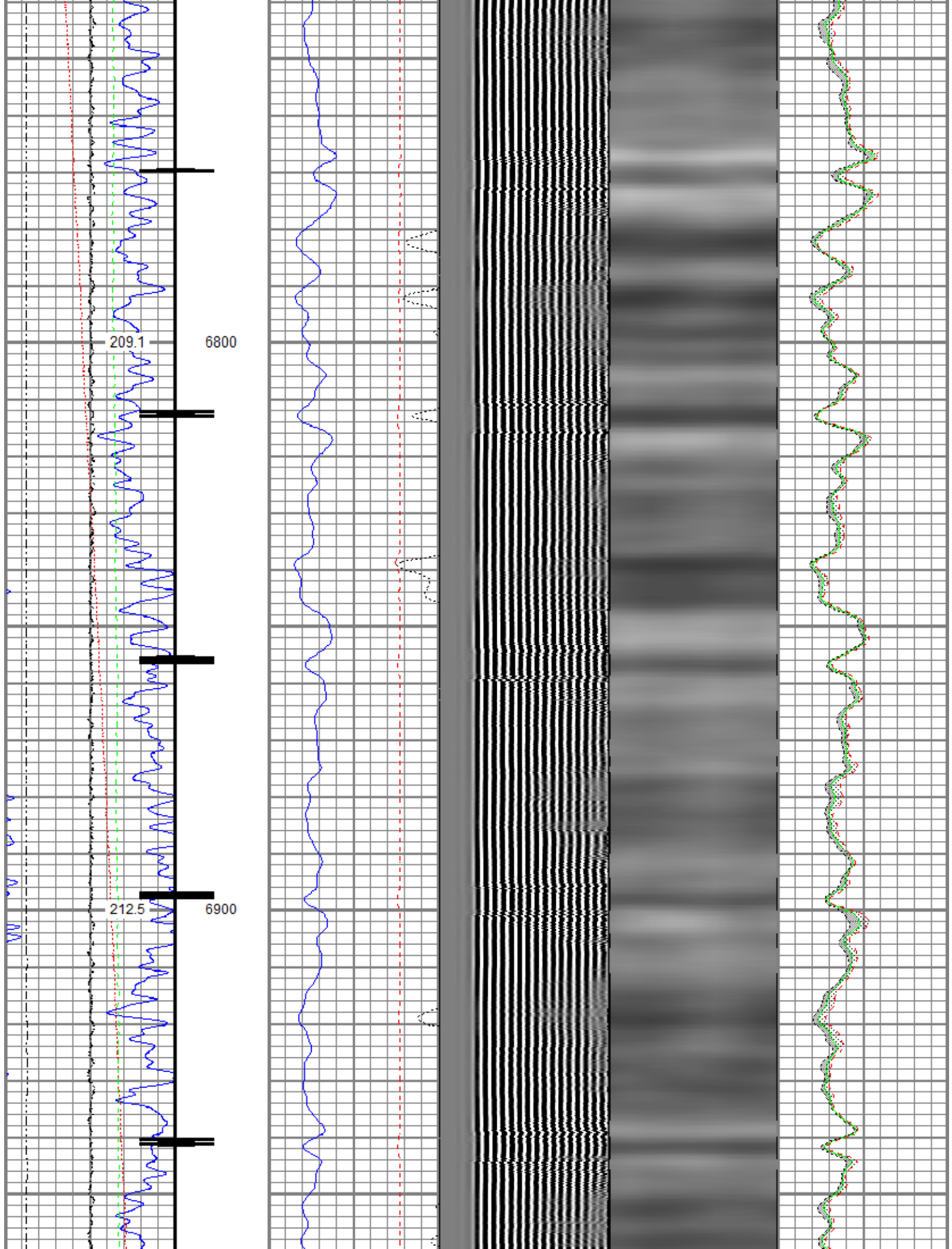


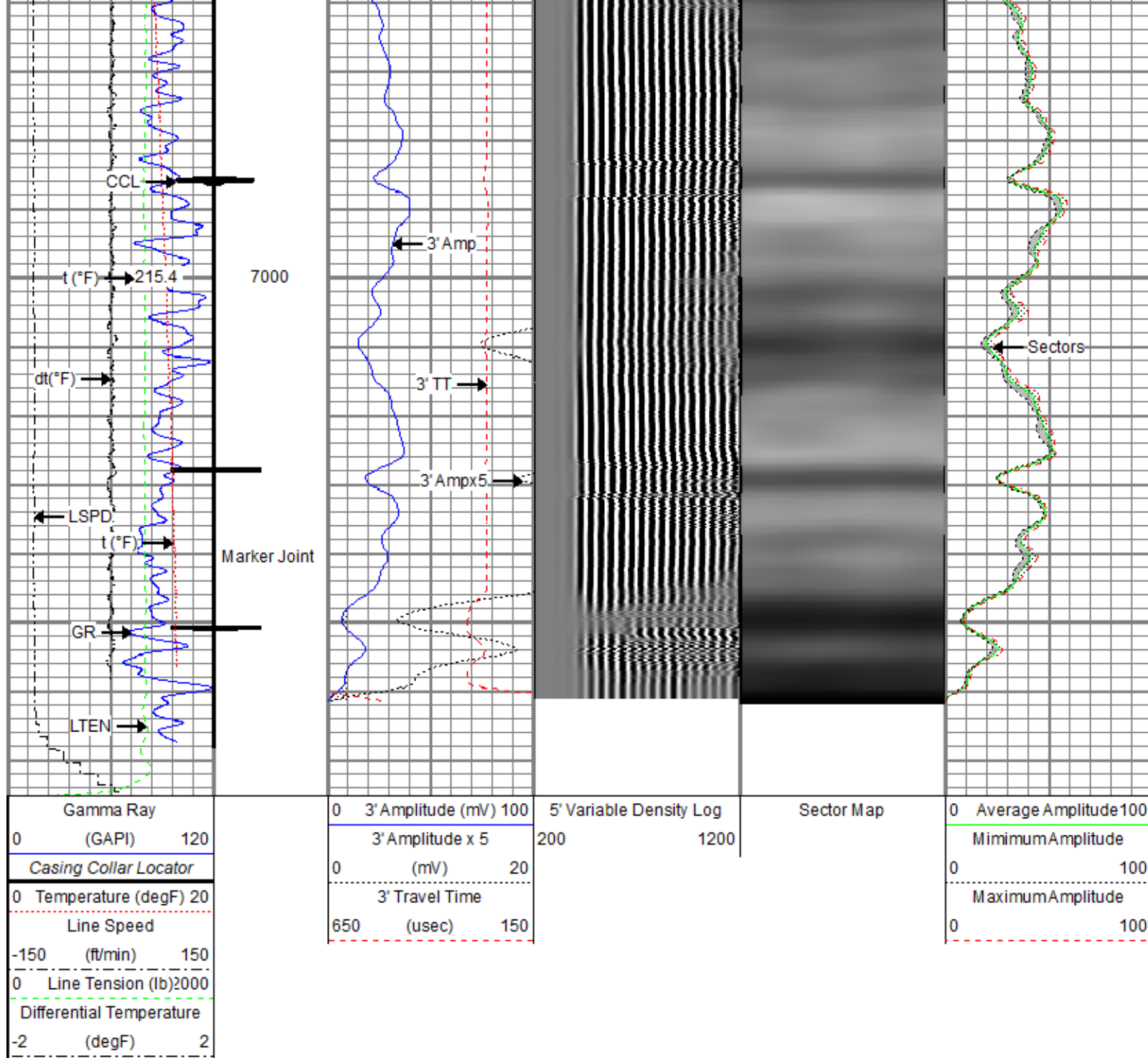








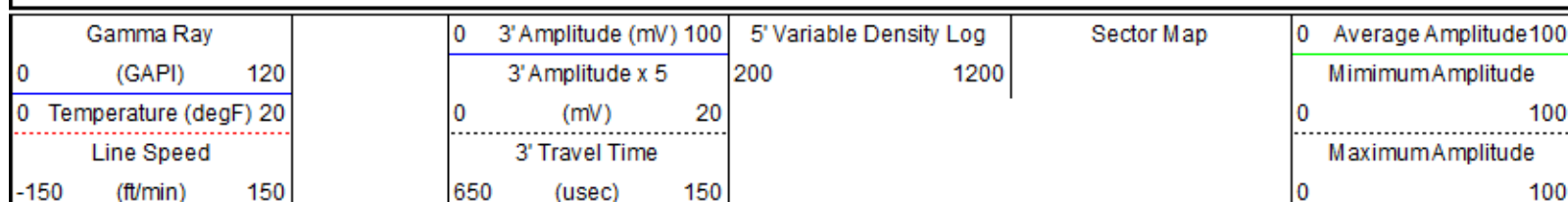




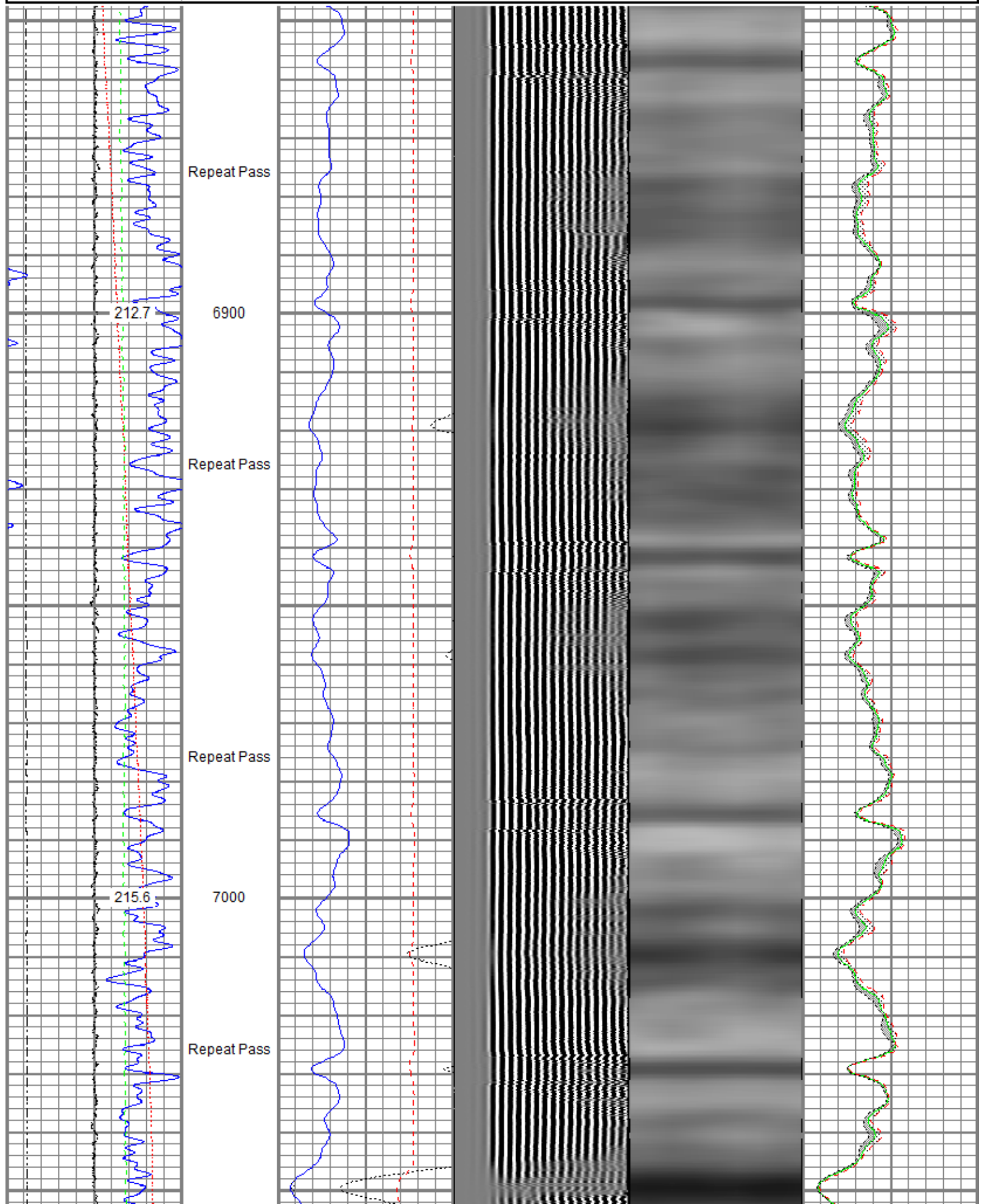
Repeat Pass

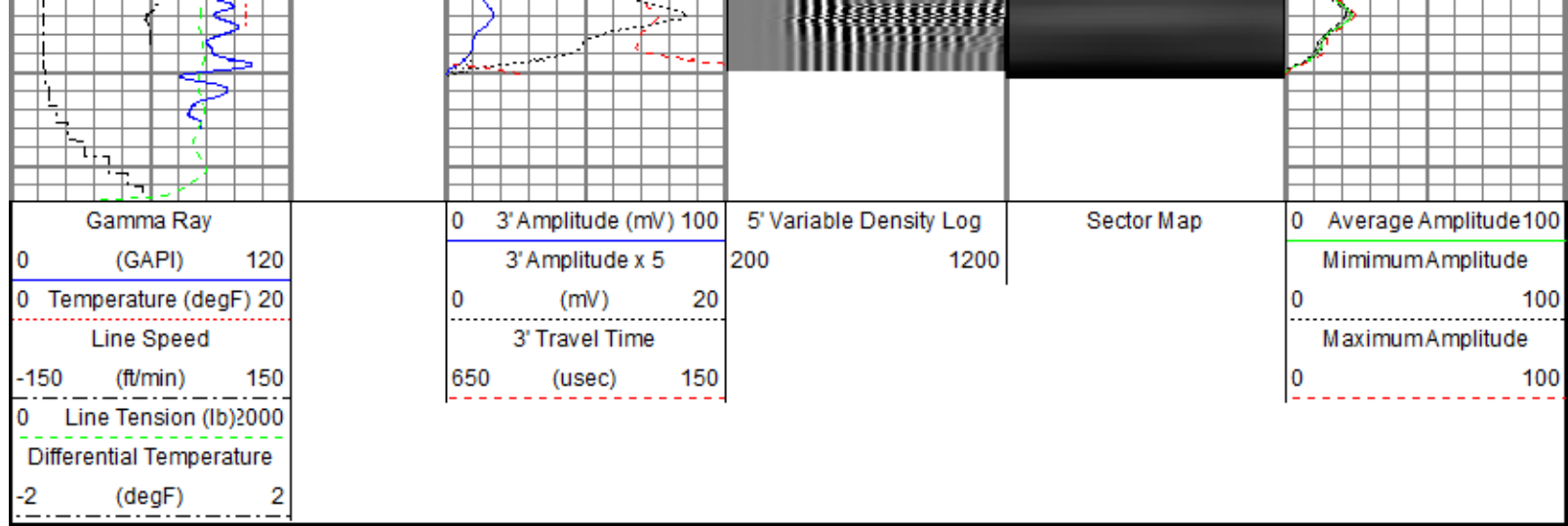
Recorded With 0 PSI Surface Induced Pressure

Database File: anadarko\0512349243_anadarko_mab 15-8hz_rbl_06-24-19\processed_0512349243_anadarko_mab 15-8hz_rbl_06-24-19.d
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 Presentation Format: ros_radri
 Dataset Creation: Tue Jun 25 10:06:49 2019
 Charted by: Depth in Feet scaled 1:240

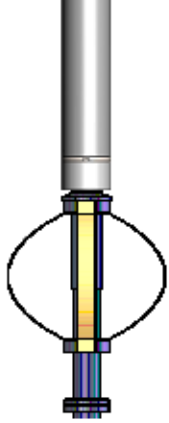


0 Line Tension (lb) 2000
Differential Temperature
-2 (degF) 2





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
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
TEMP	17.04					
WVFS8	14.81		Probe Radii-2750 RBT (FW1305-098) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
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					
			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 GDR (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	4.80	2.75	33.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Dataset: processed_0512349243_anadarko_mab 15-8hz_rbl_06-24-19.db: field/well/run1/pass4.2 Total length: 23.86 ft Total weight: 223.60 lb O.D.: 2.75 in						

Calibration Report						
Database File	c:\programdata\warrior\data\anadarko\0512349243_anadarko_mab 15-8hz_rbl_06-24-19\processed_0512349243_anadarko_m					
Dataset Pathname	pass4.2					
Dataset Creation	Tue Jun 25 10:04:29 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	0.639	0.800	71.921	112.666	-0.081
CAL	0.006	0.700				
5'	0.009	0.580	0.800	71.921	124.498	-0.264
SUM						
S1	0.005	0.640	0.000	100.000	157.273	-0.725
S2	0.008	0.635	0.000	100.000	159.447	-1.247
S3	0.008	0.655	0.000	100.000	154.489	-1.212
S4	0.007	0.636	0.000	100.000	158.804	-1.076
S5	0.009	0.634	0.000	100.000	159.930	-1.379
S6	0.008	0.630	0.000	100.000	160.879	-1.274
S7	0.007	0.626	0.000	100.000	161.630	-1.192
S8	0.010	0.653	0.000	100.000	155.500	-1.577
Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	

	<u>Zero</u>	<u>Cal</u>	<u>Zero</u>	<u>Cal</u>	<u>Gain</u>	<u>Offset</u>
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
	<u>Zero</u>	<u>Zero</u>	<u>Offset</u>
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 15-8HZ
Field	Wattenberg
County	Weld
State	Colorado