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Comments

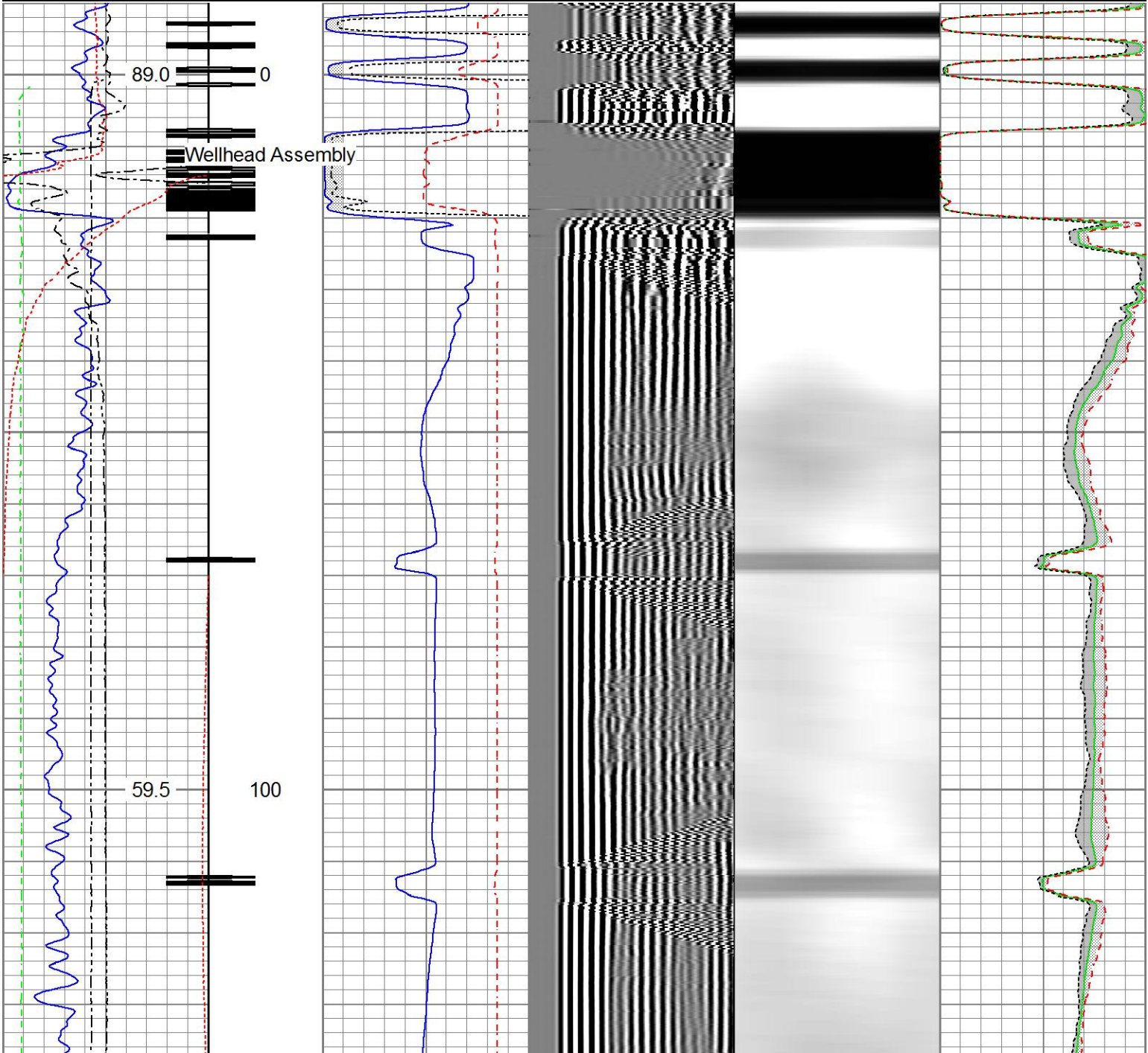
Log ran as per customer request
Depth referenced to Casing Tally reported Marker Joint at 6660 FT
Adjusted -7.5 FT to correlate with Marker Joint
Gauge Ring/Junk Basket ran to 7652 FT with no debris
RBP set at 6750 FT
Log ran from just above RBP to surface
Log ran with 2800 PSI surface induced pressure
Logging tools were clean and free of any debris upon completion of operations

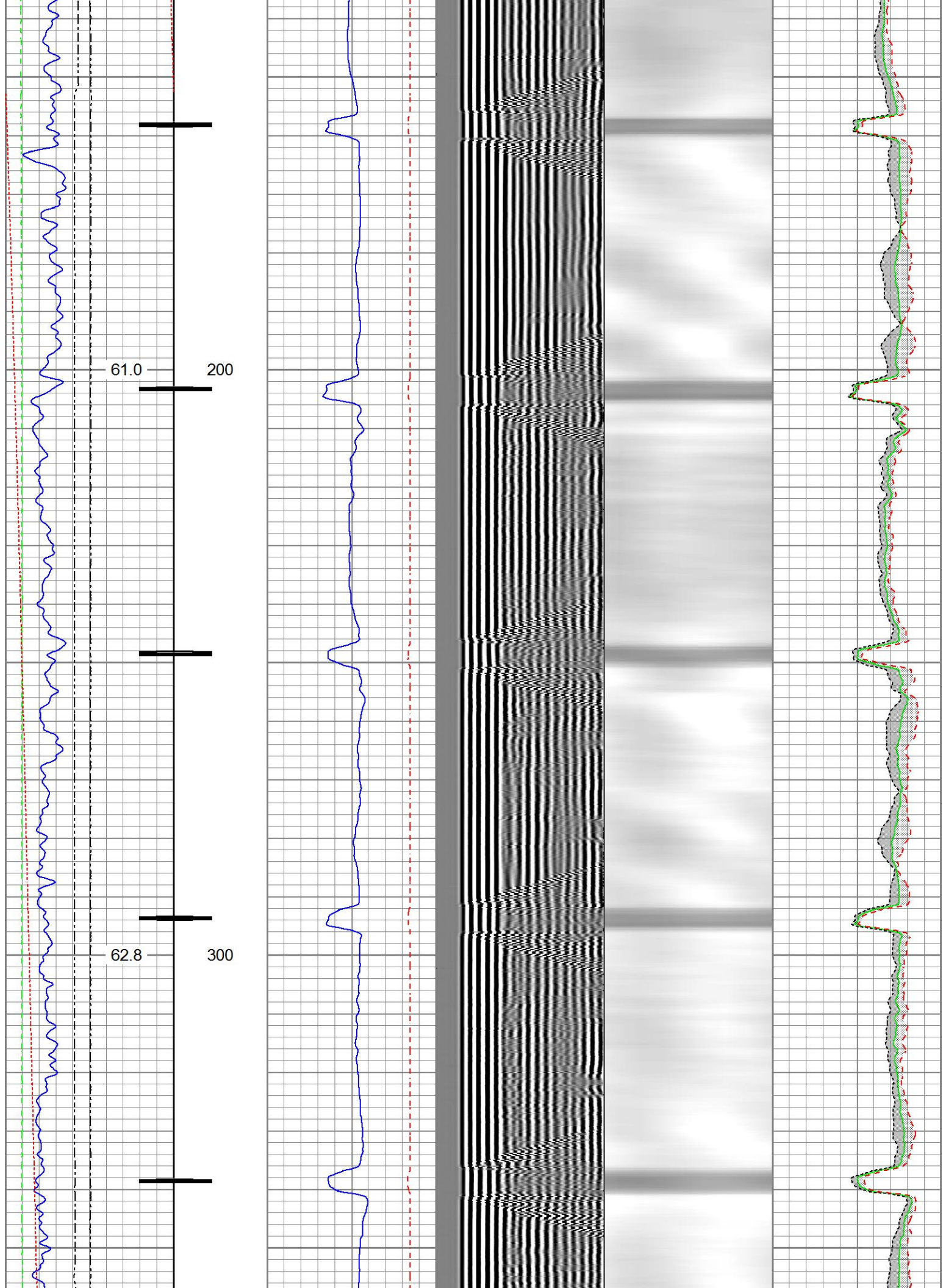
Thank you for choosing Reliance Oilfield Services, LLC!!

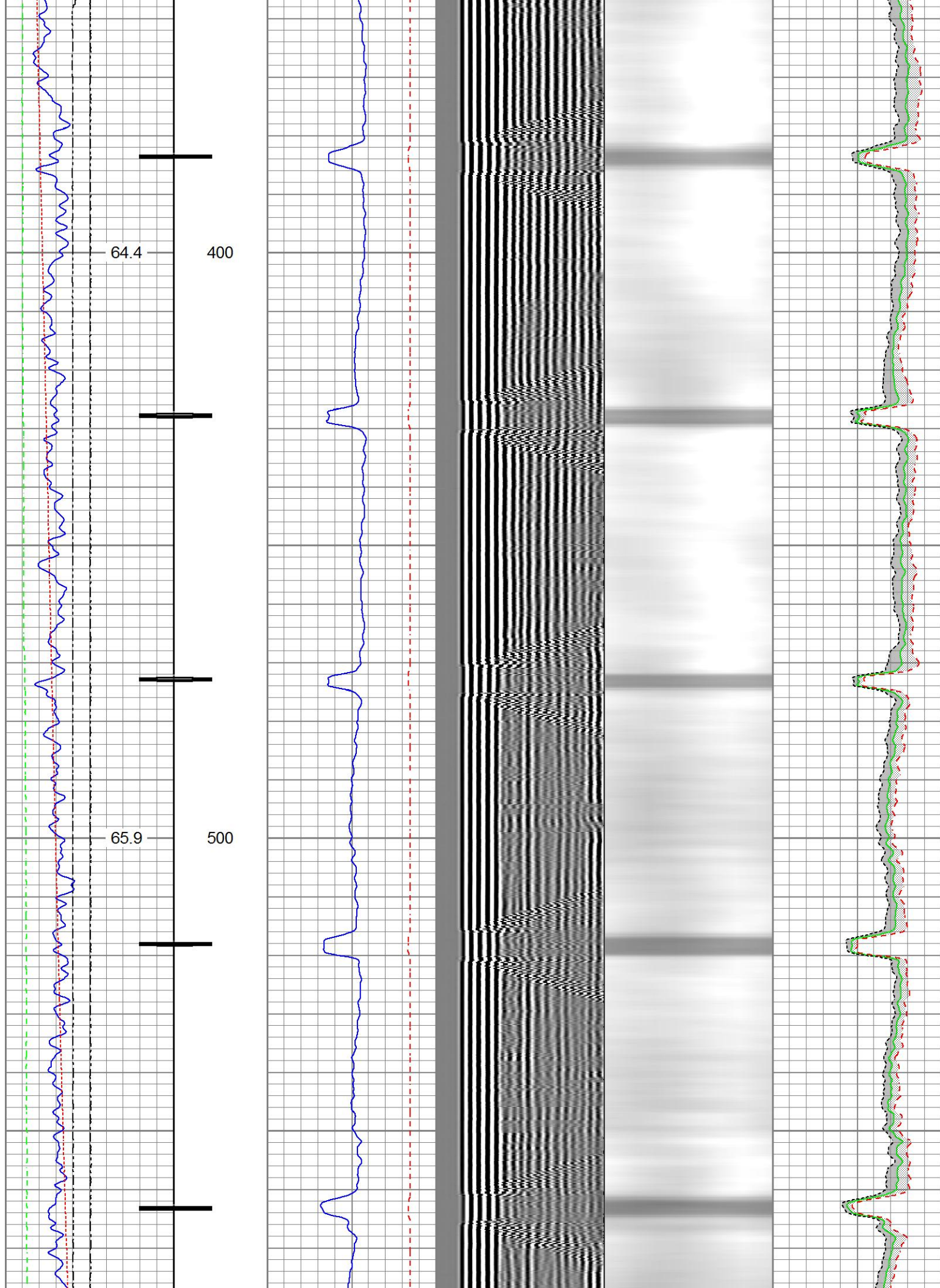


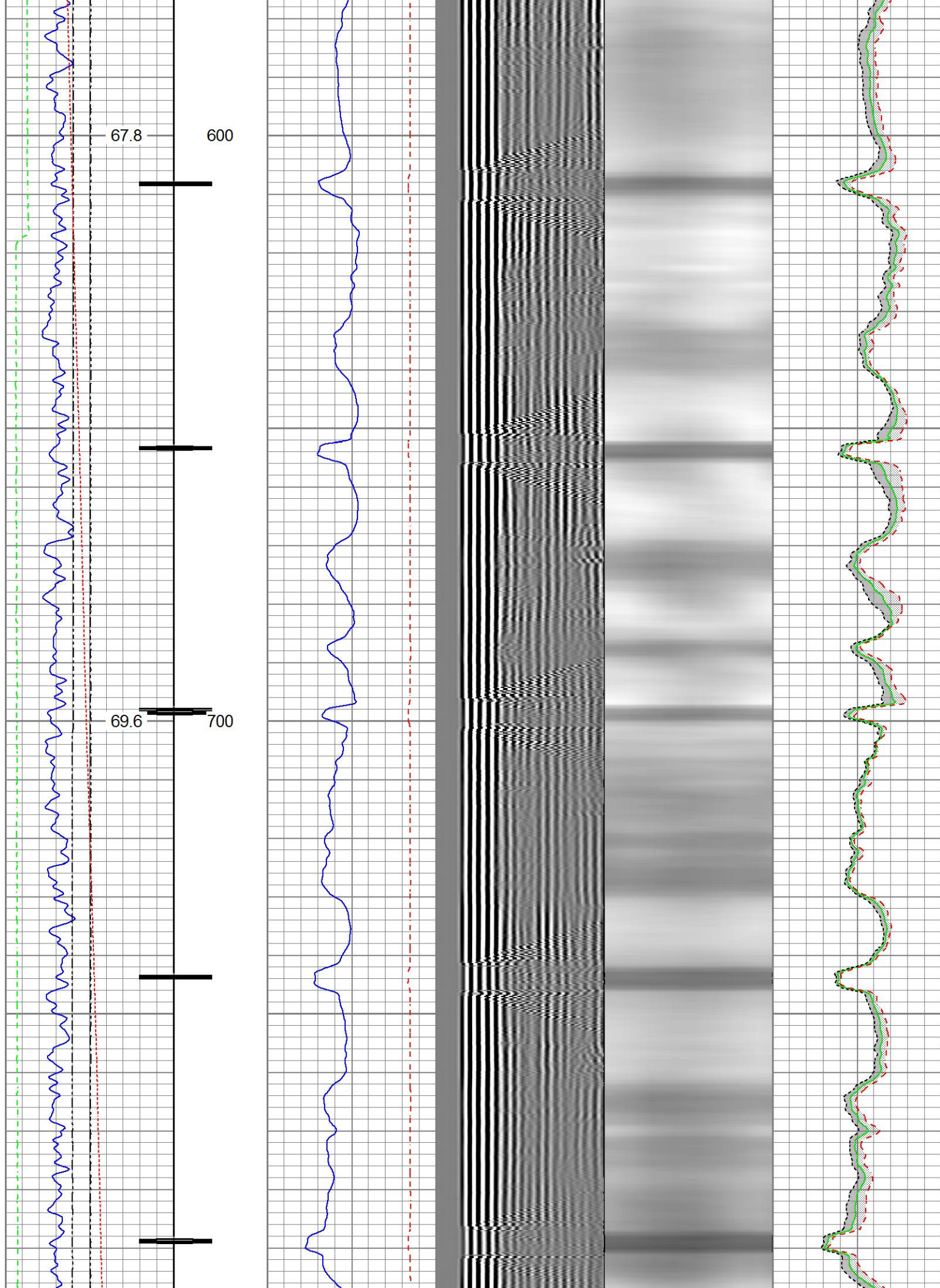
Recorded With 2800 PSI Surface Induced Pressure

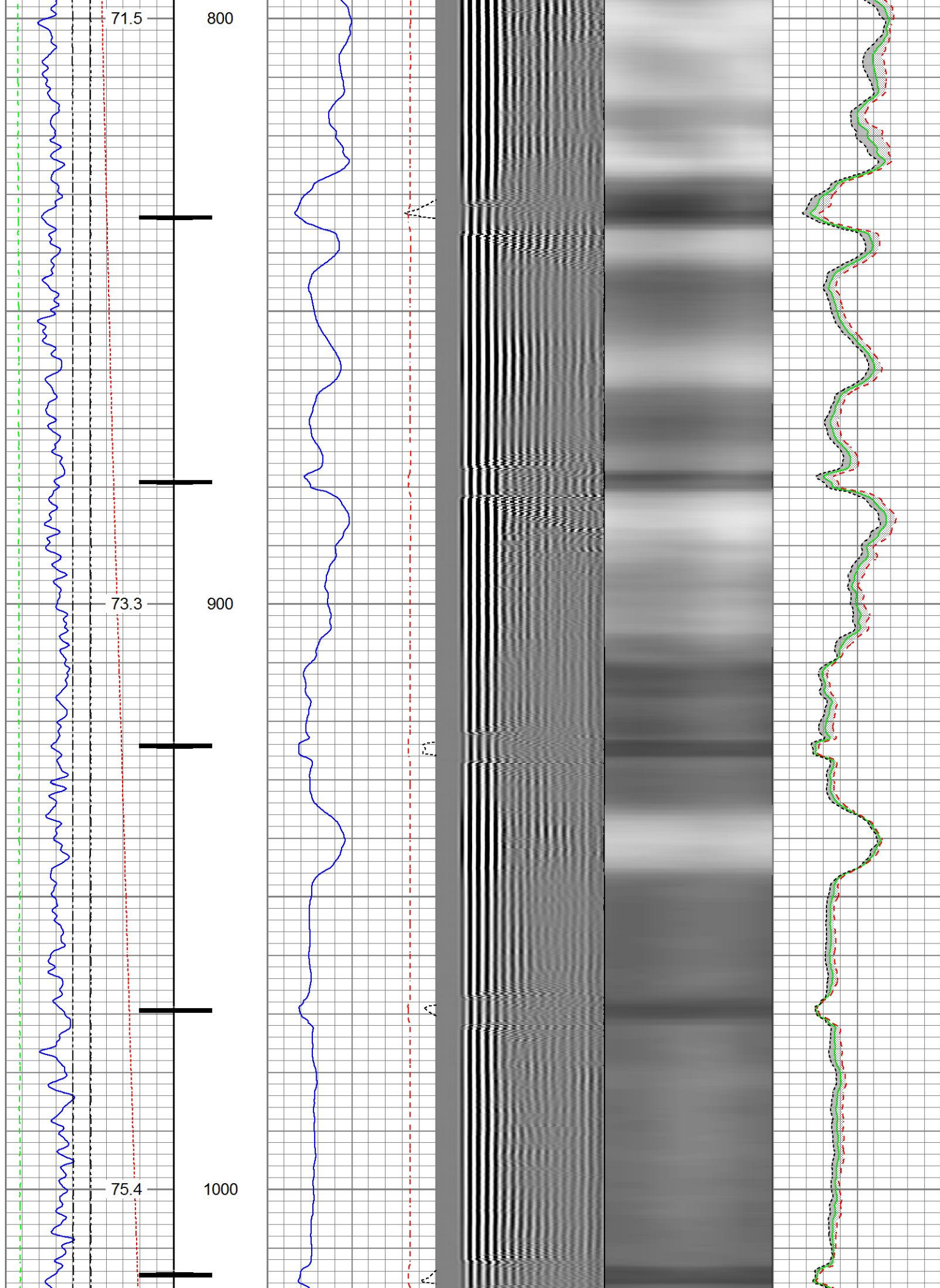
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Line Speed	0 (mV) 20			0 100
-150 (ft/min) 150	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000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

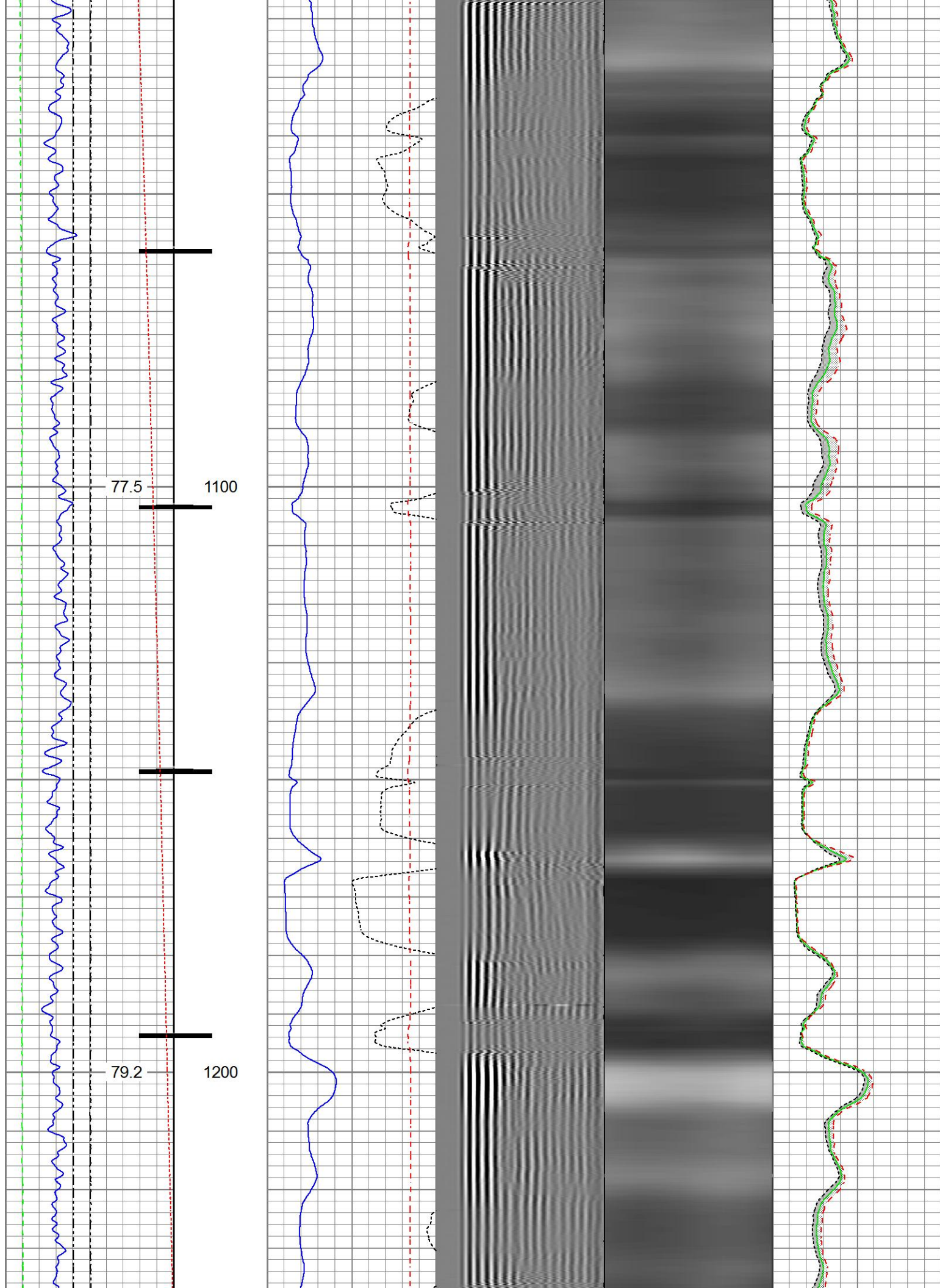


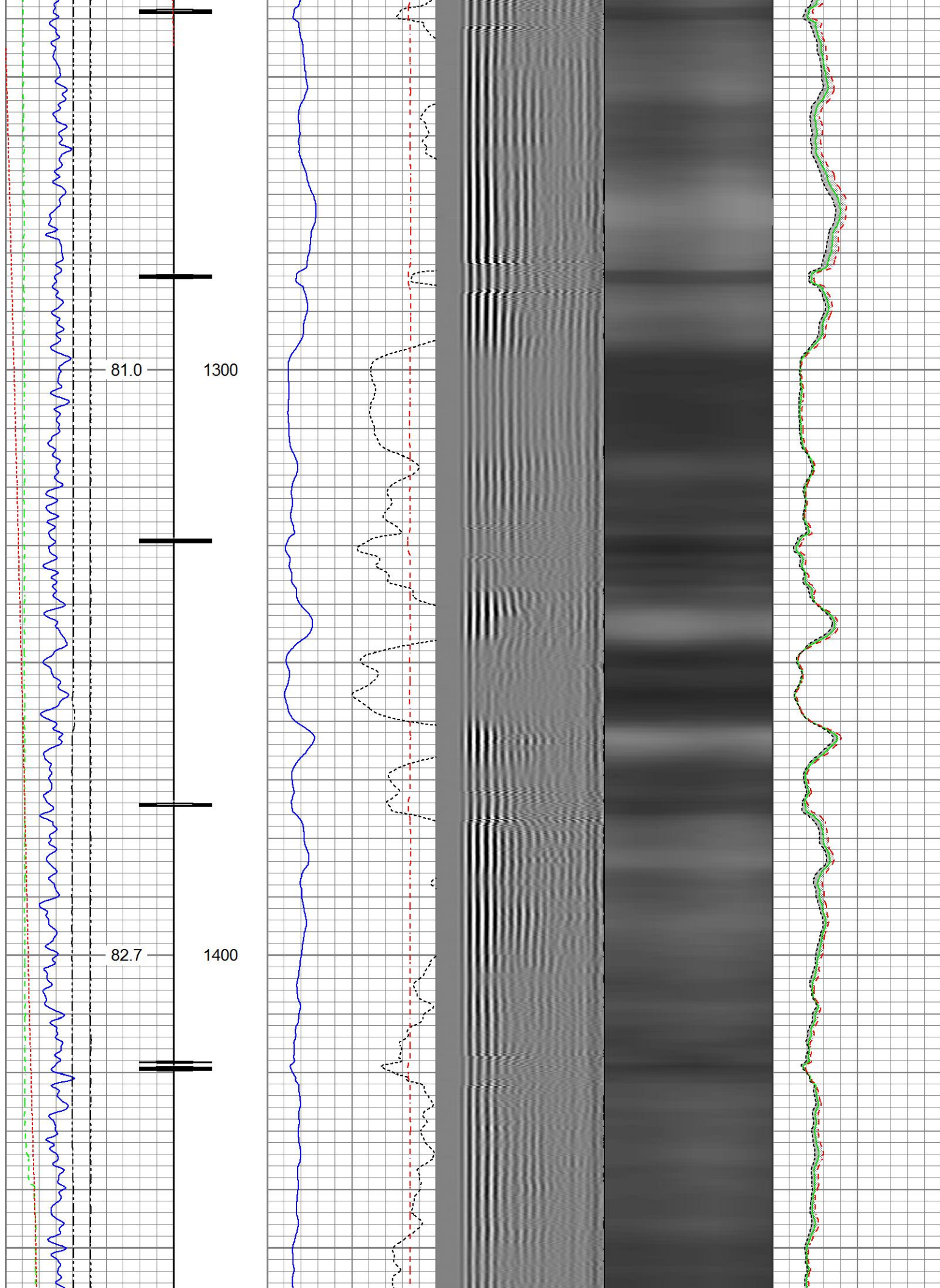


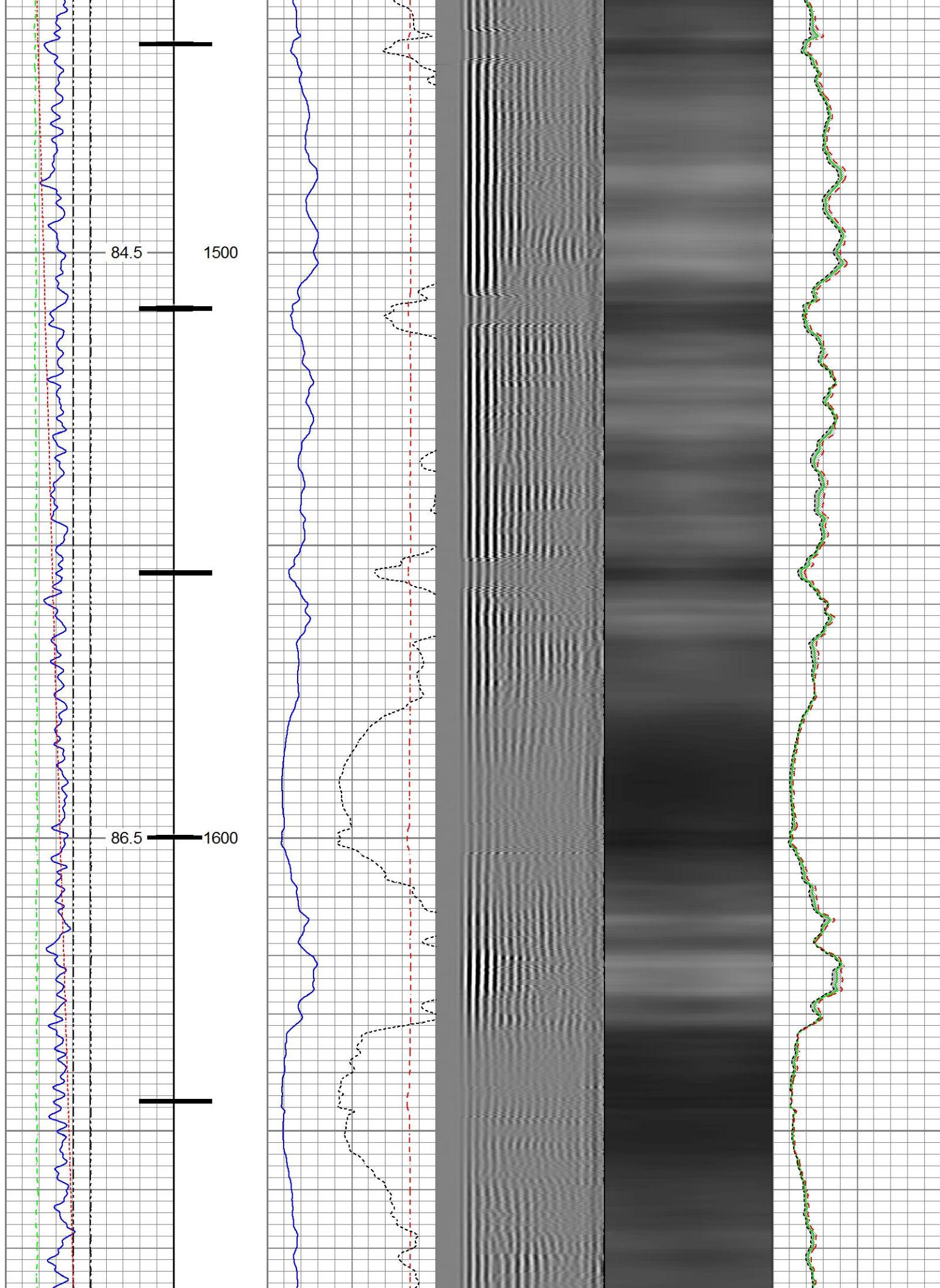


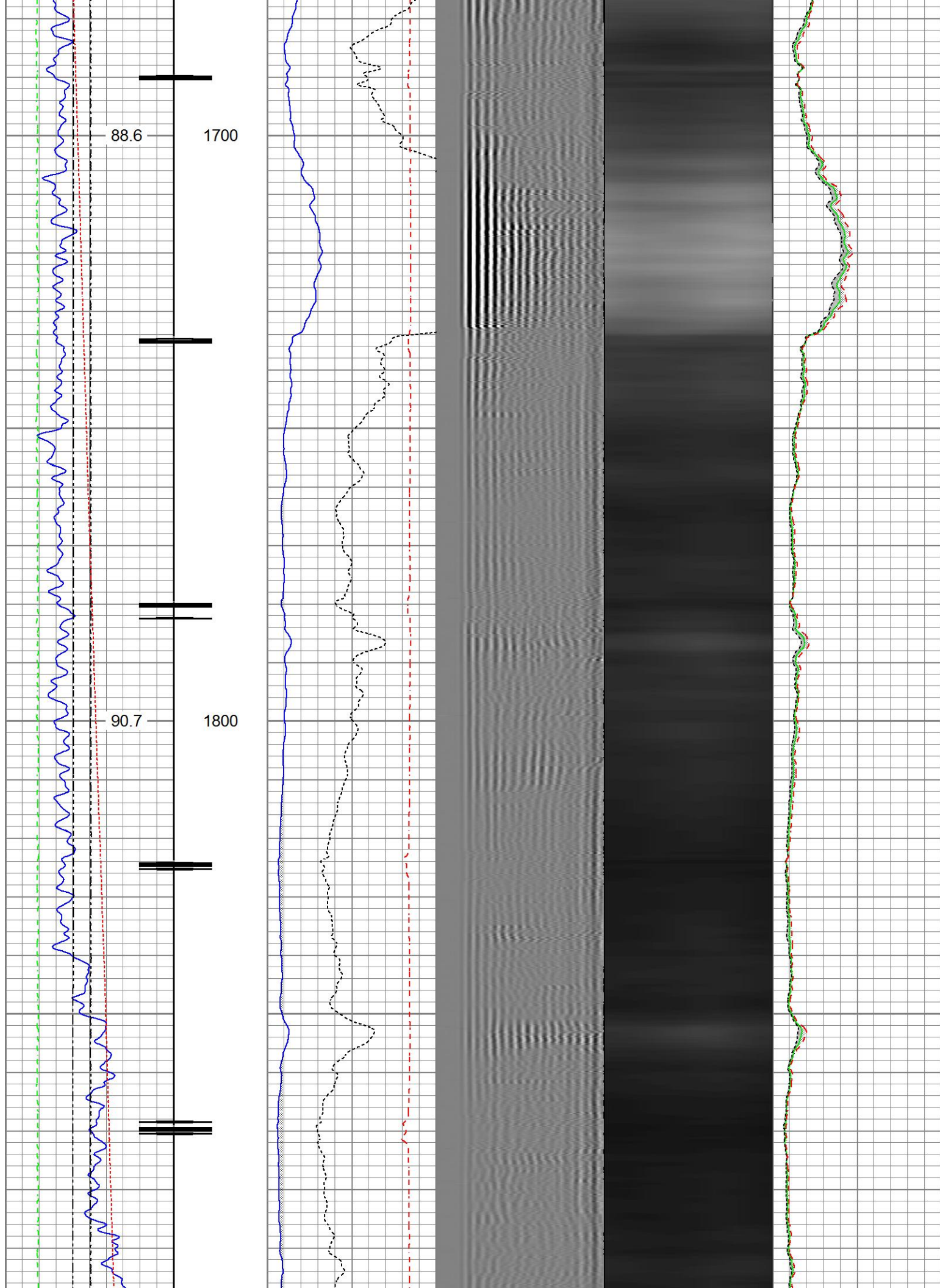


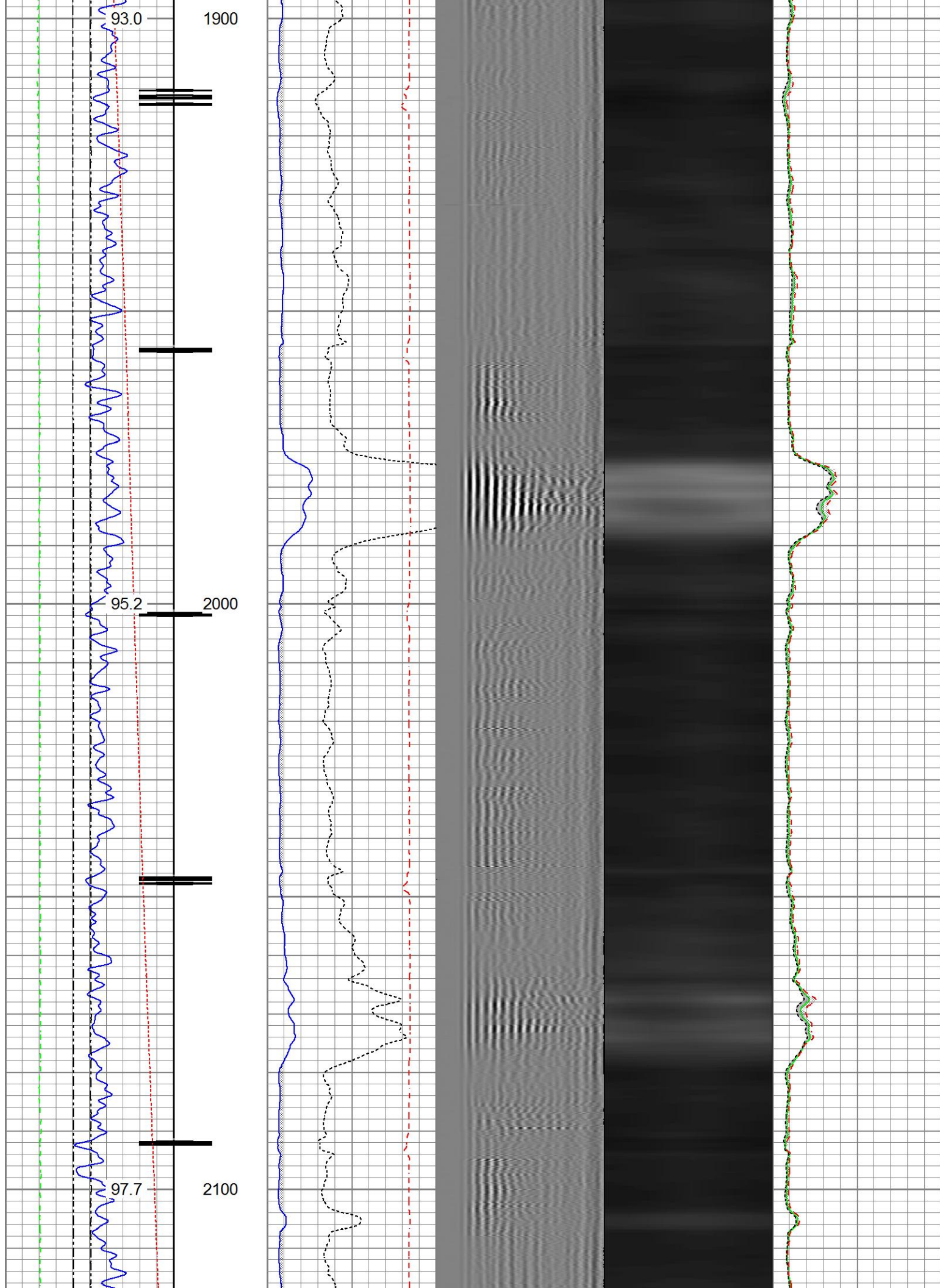


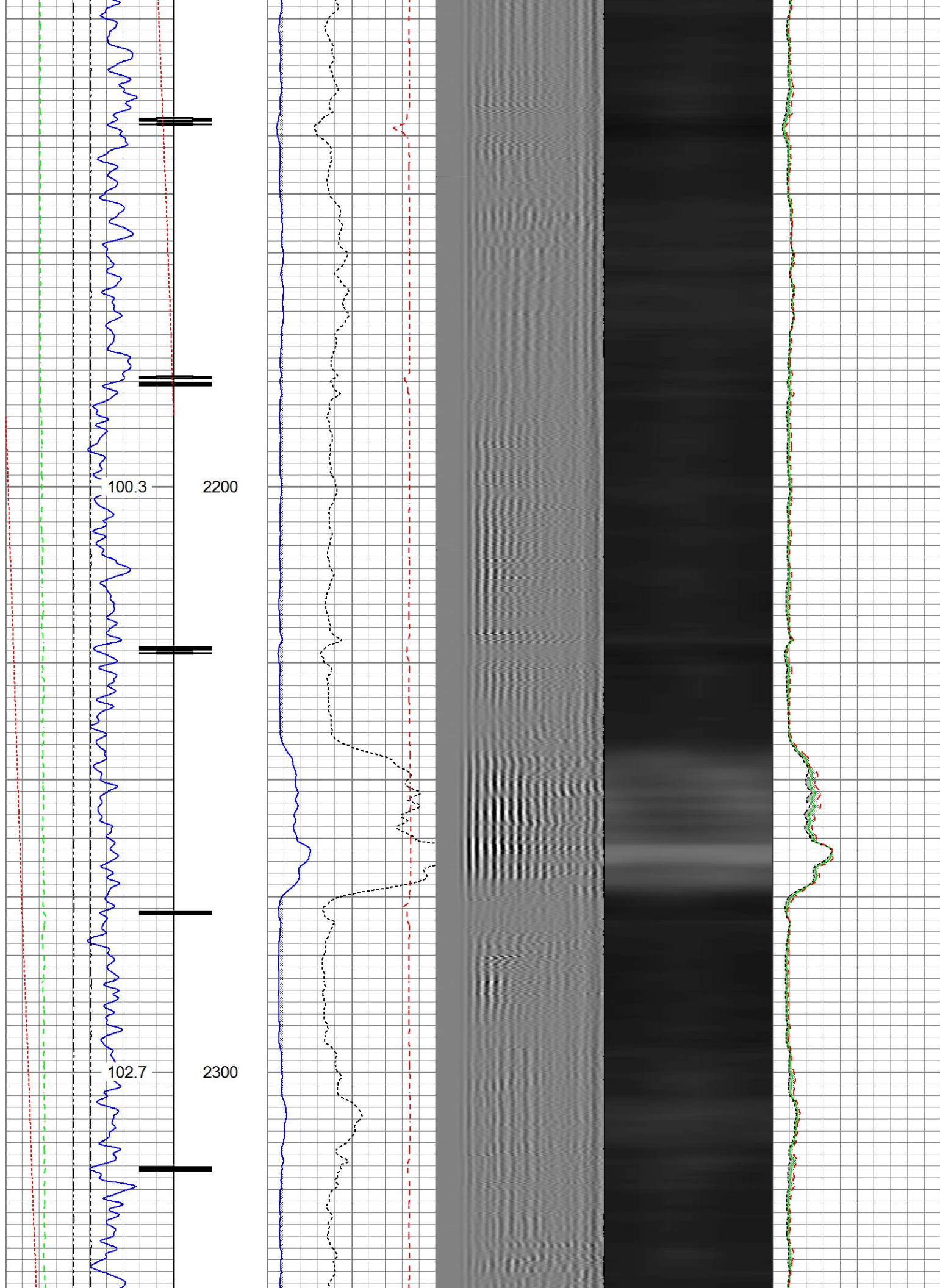


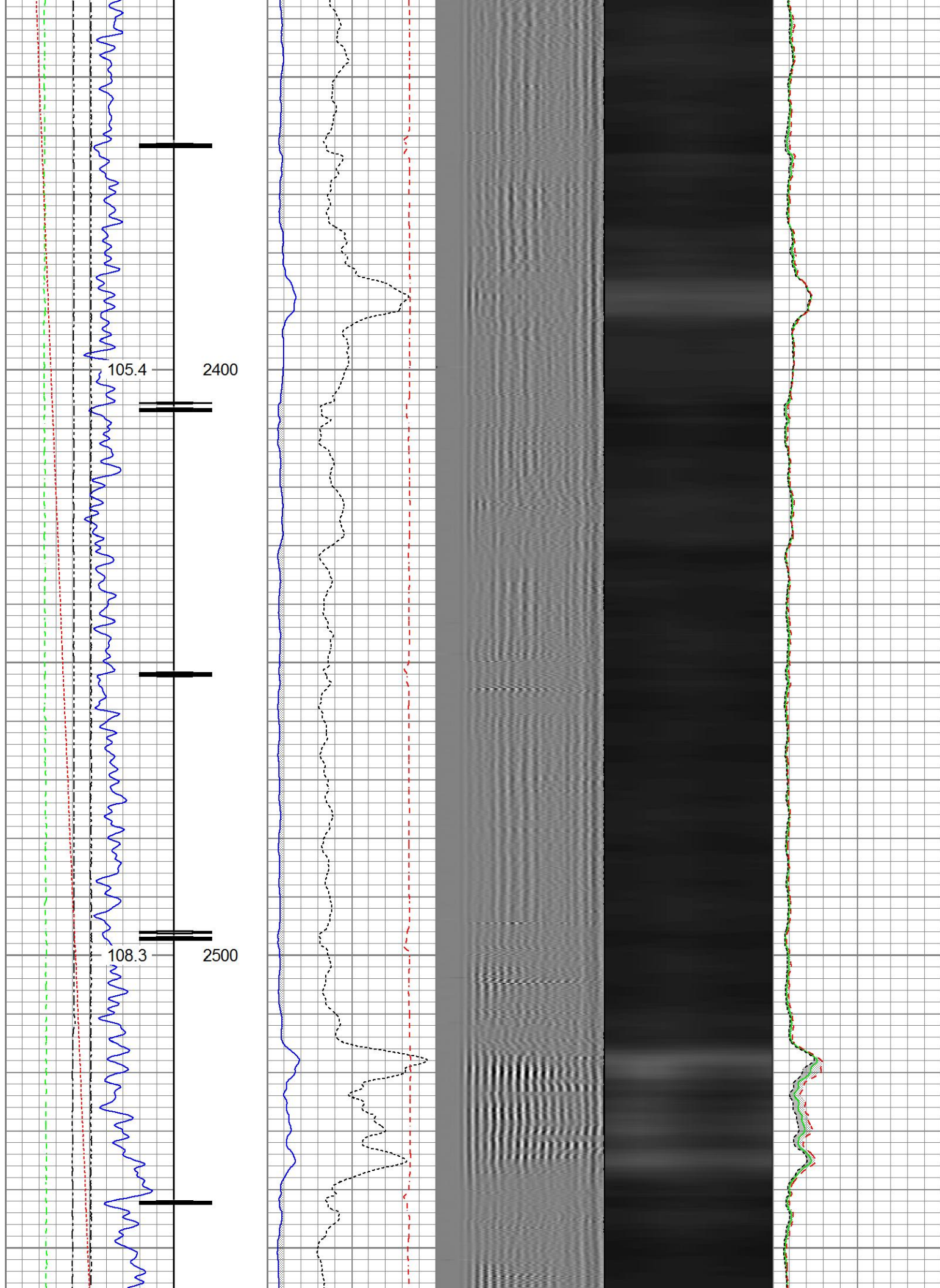


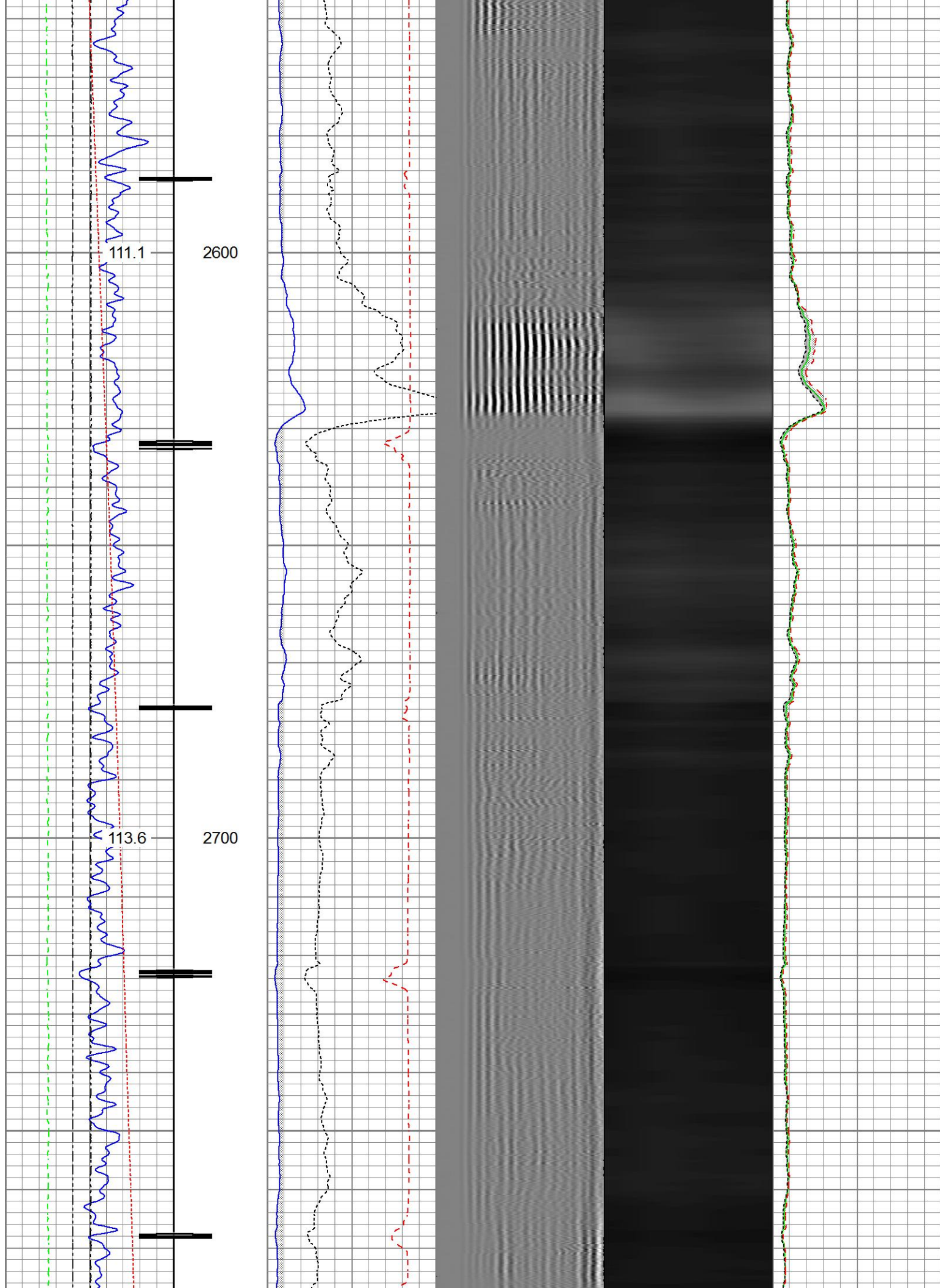


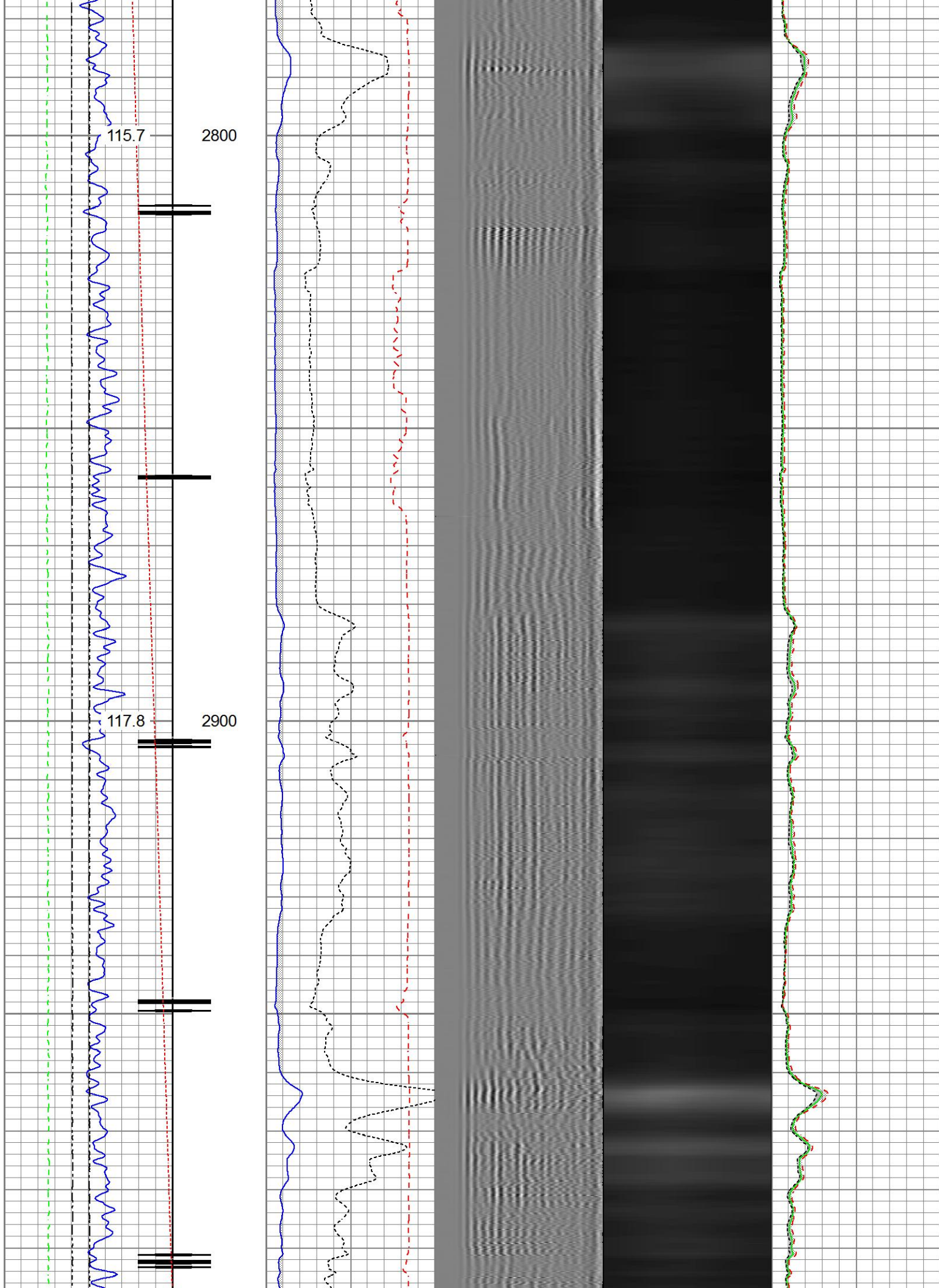


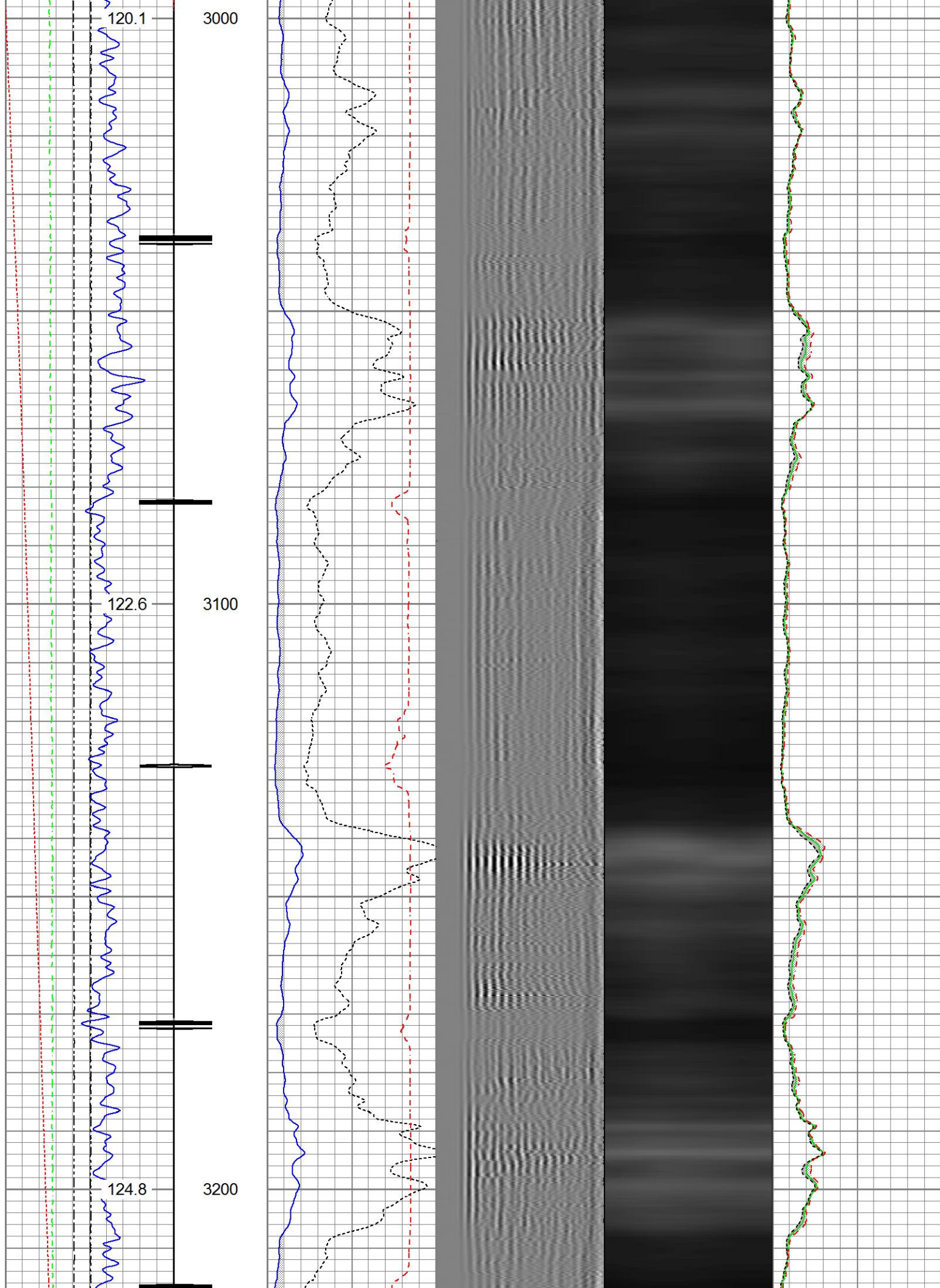


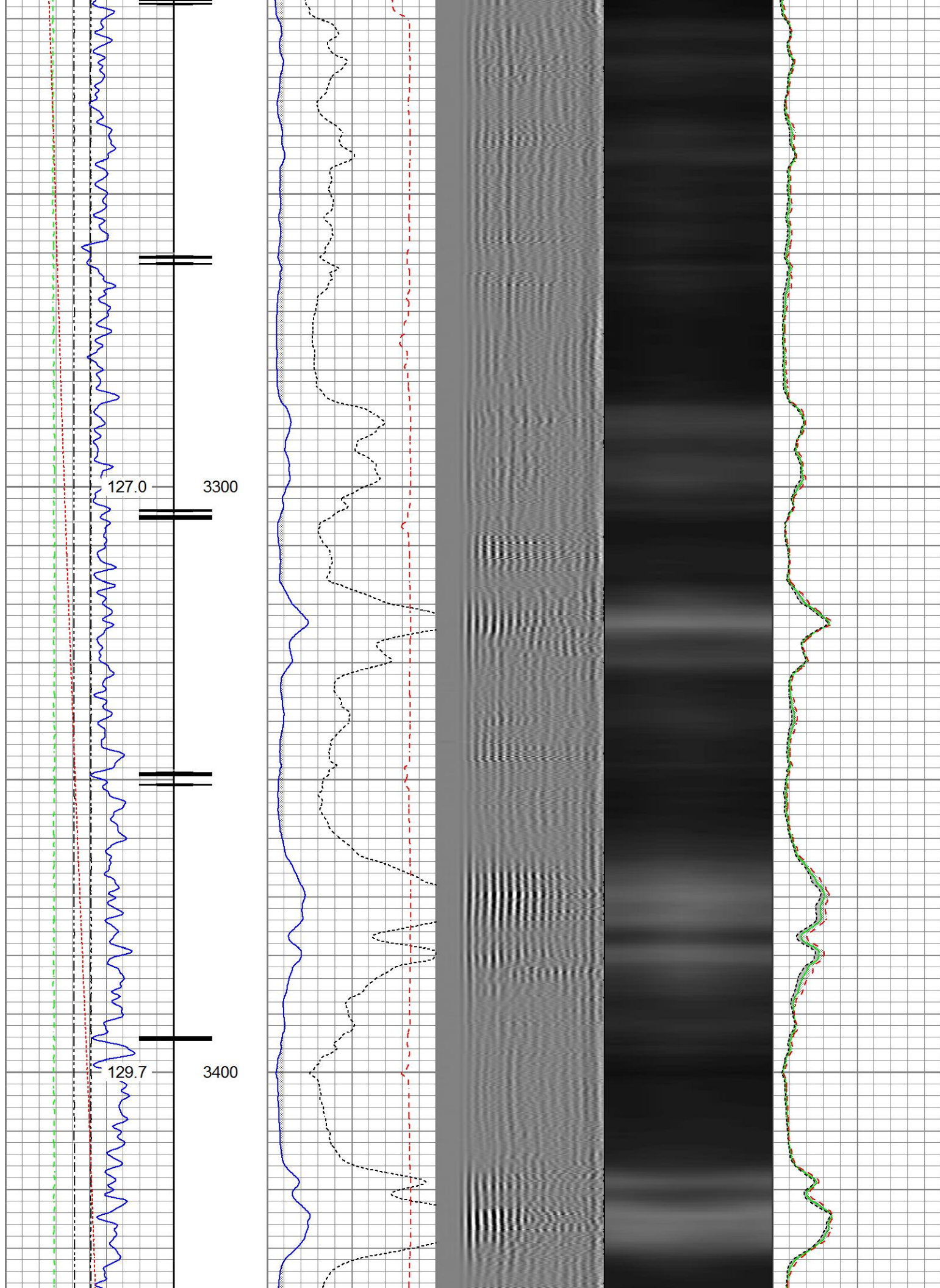


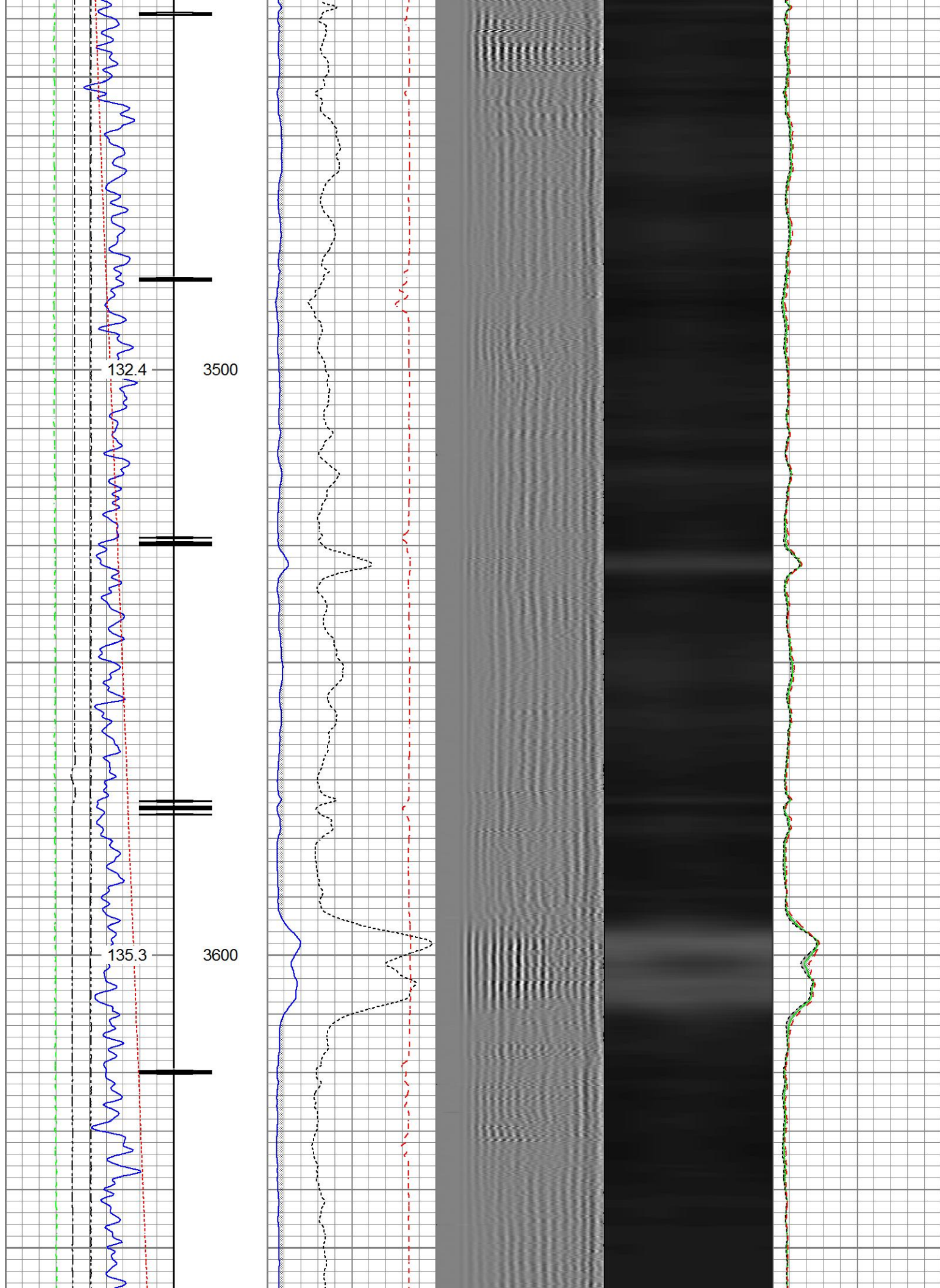


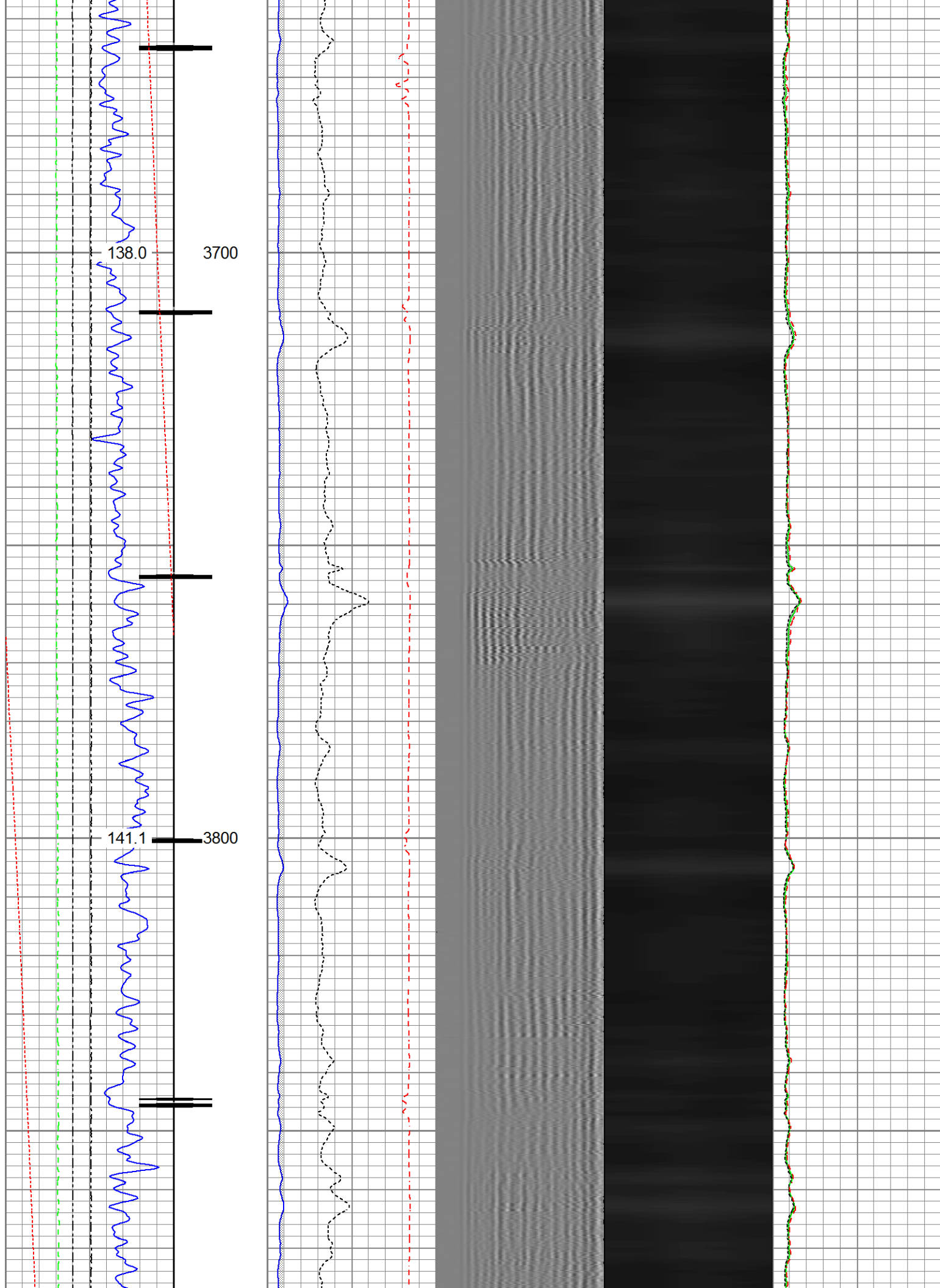


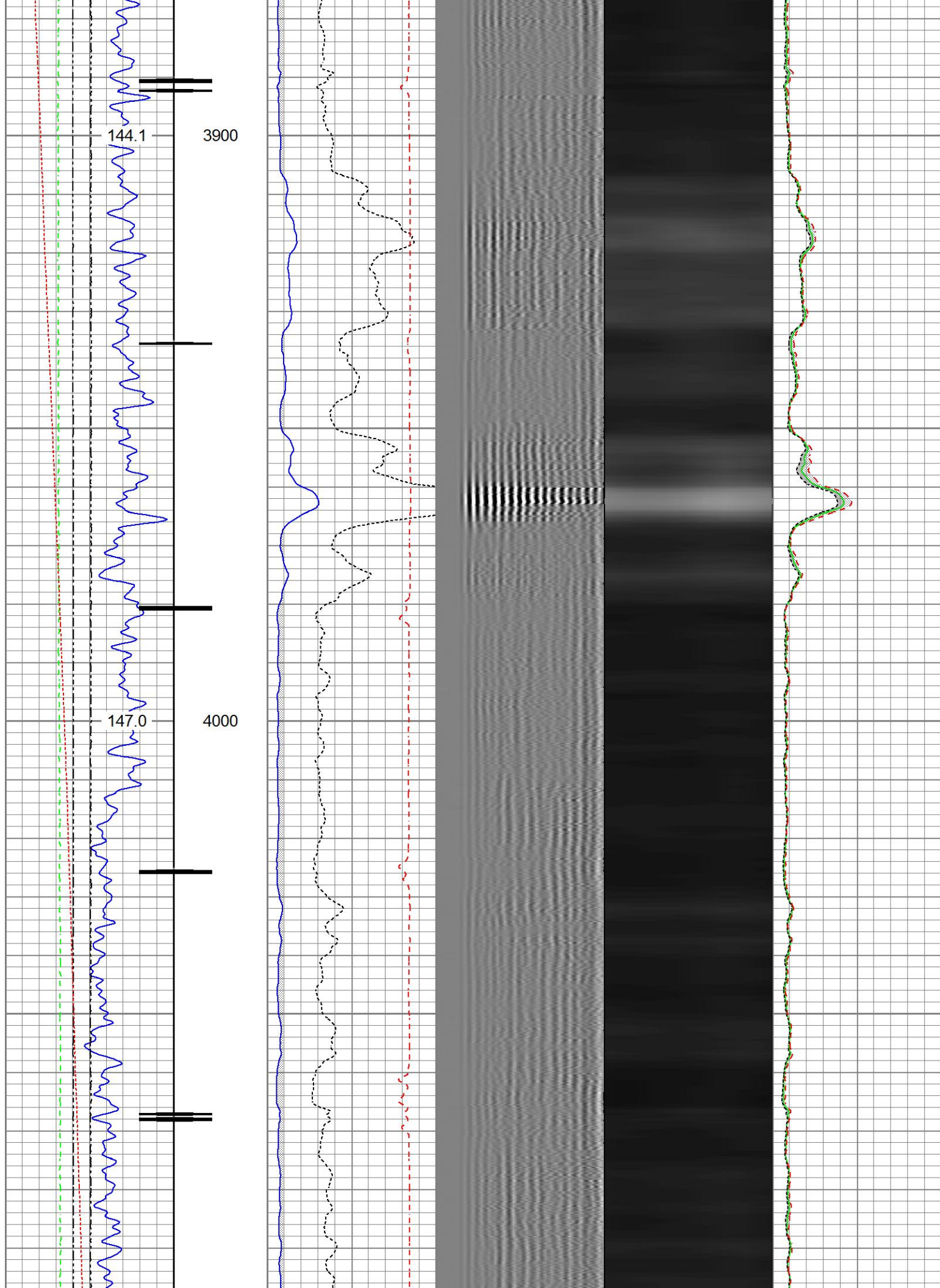


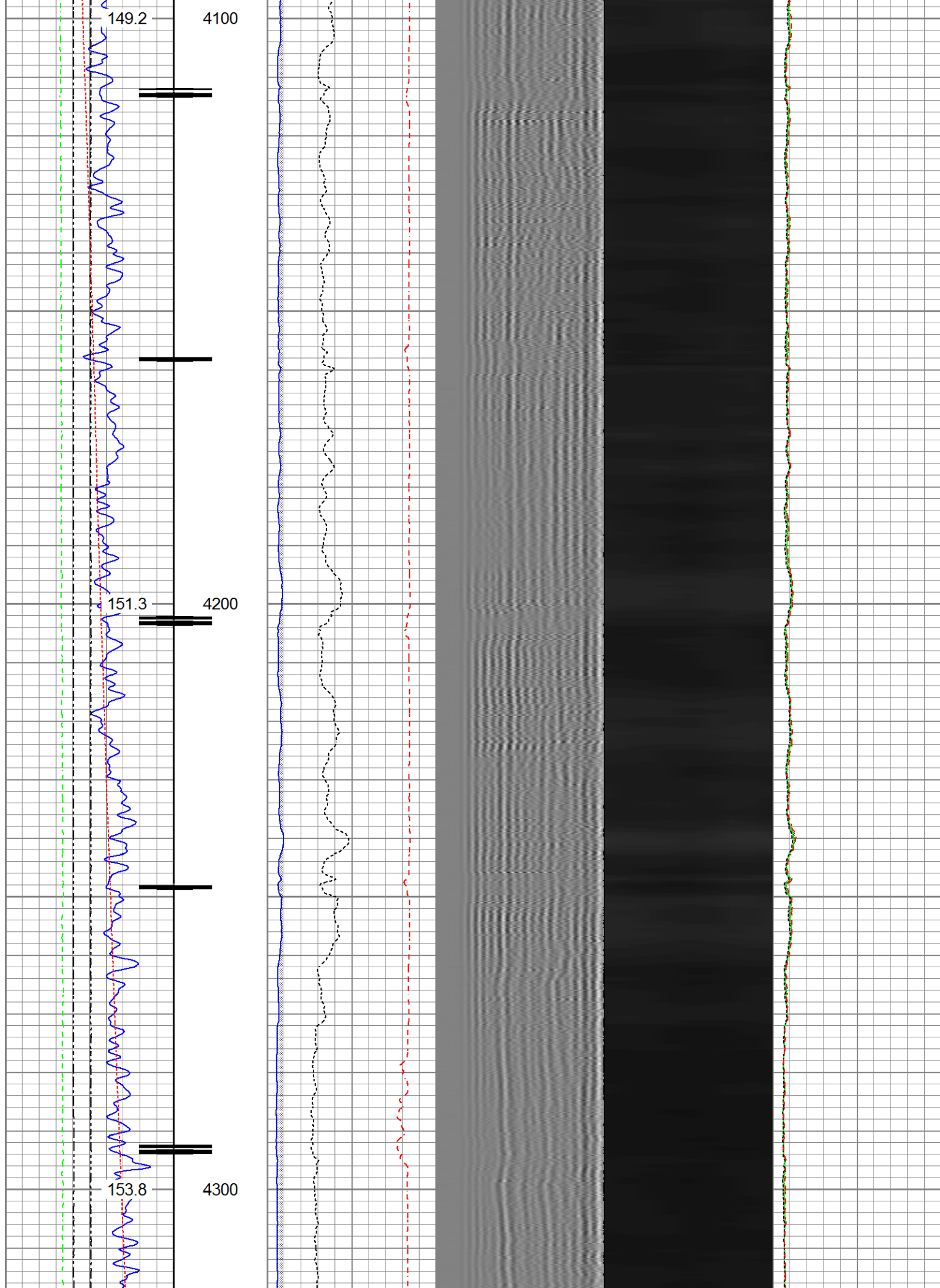


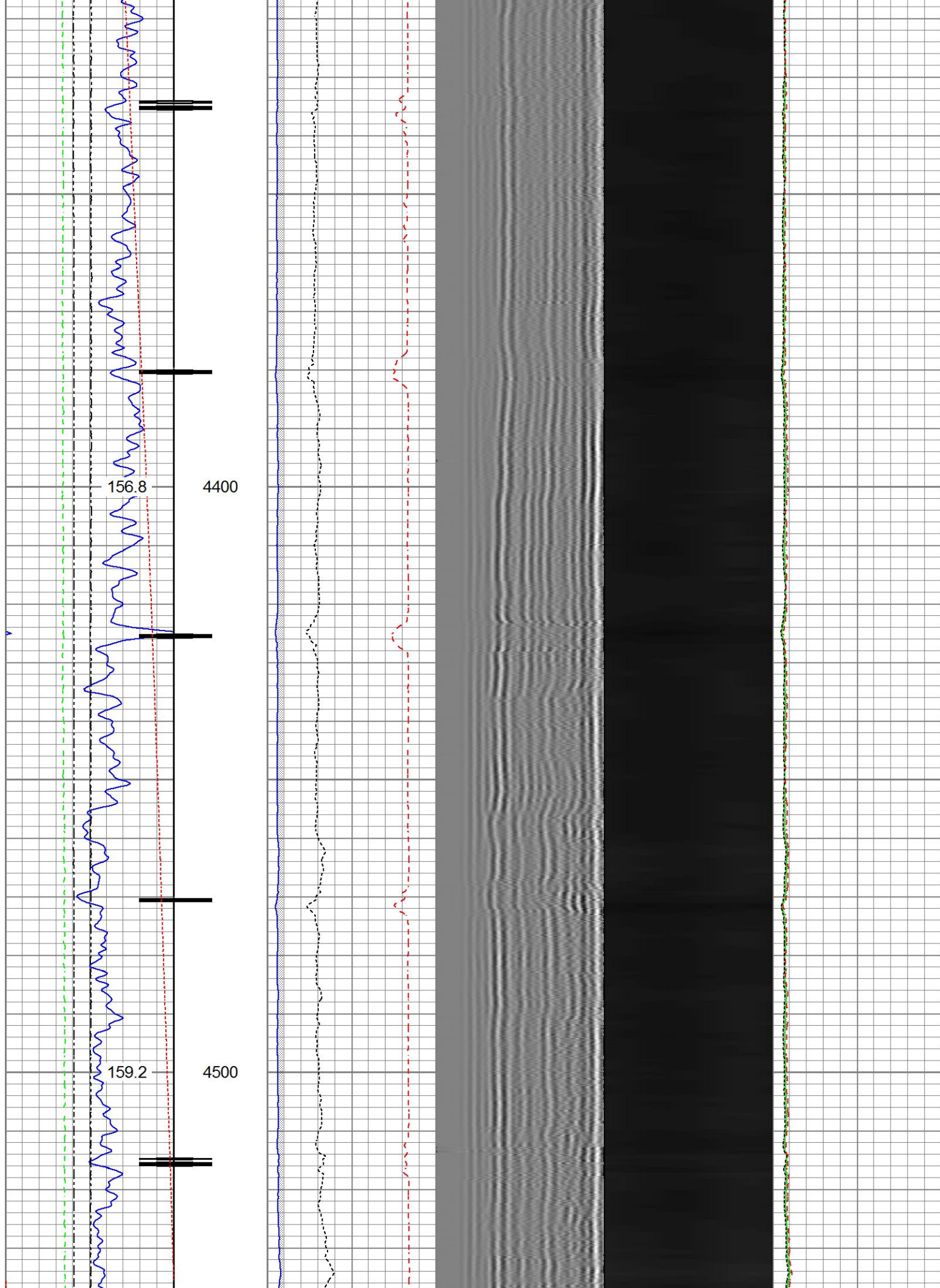


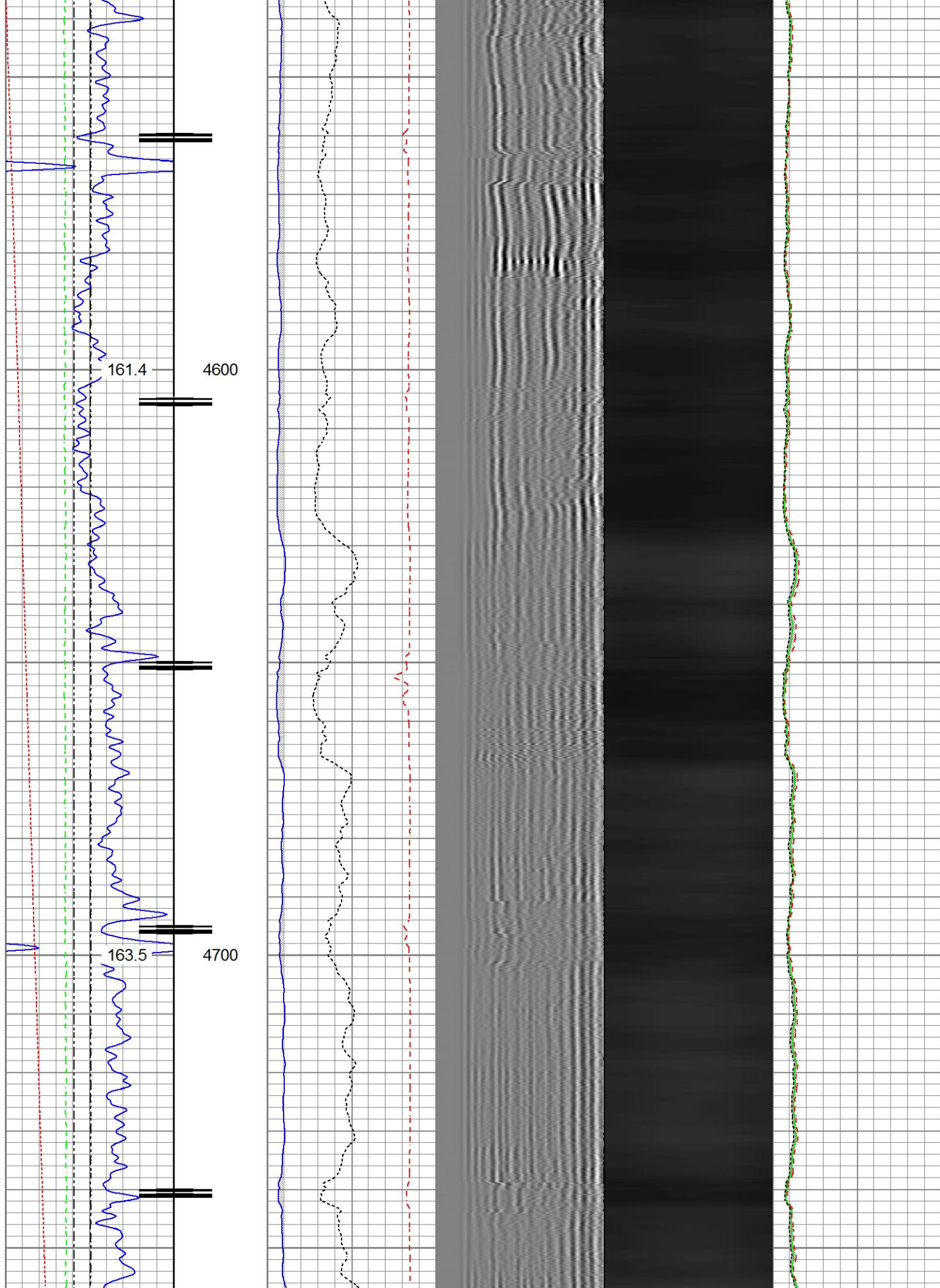


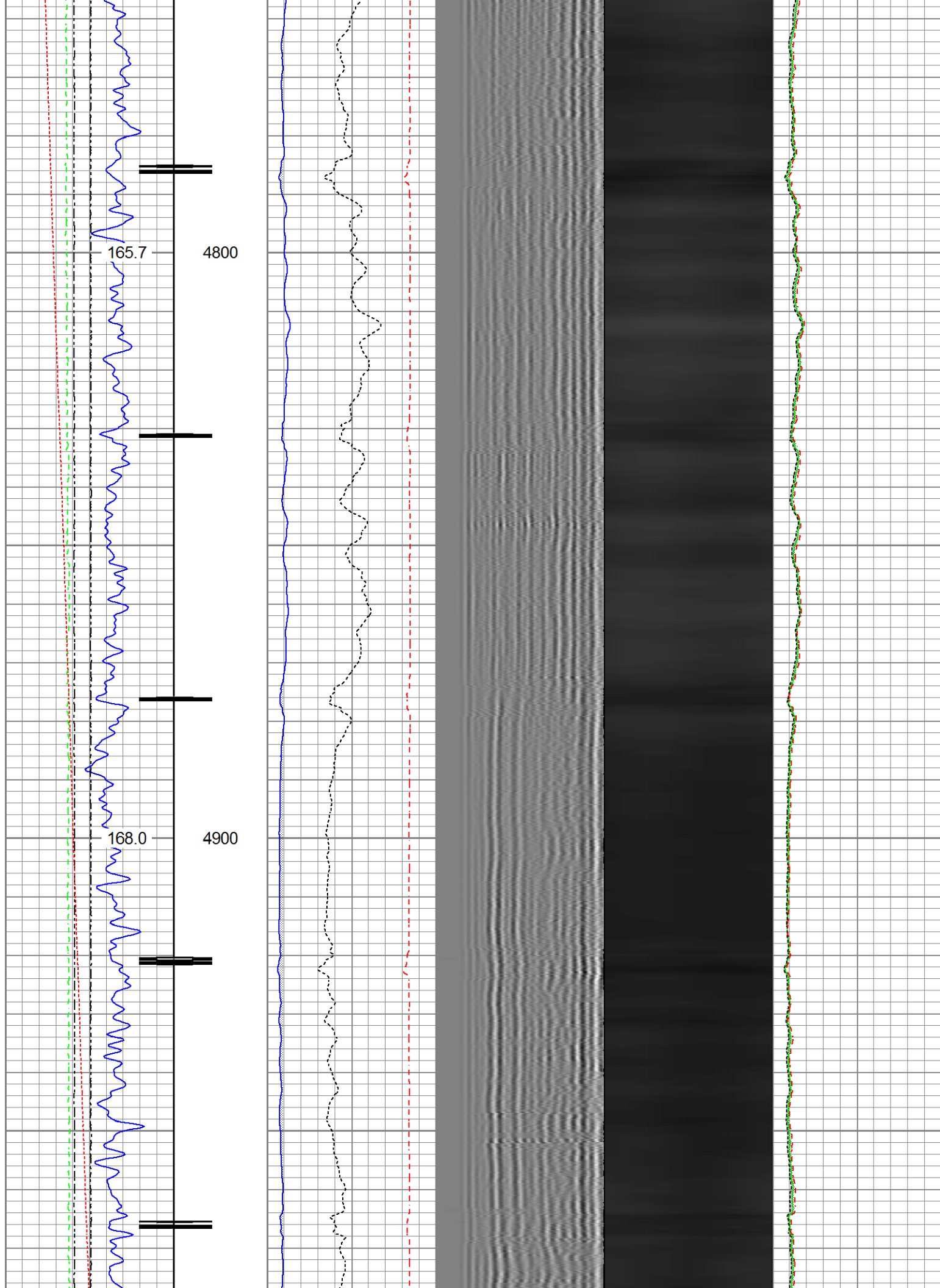


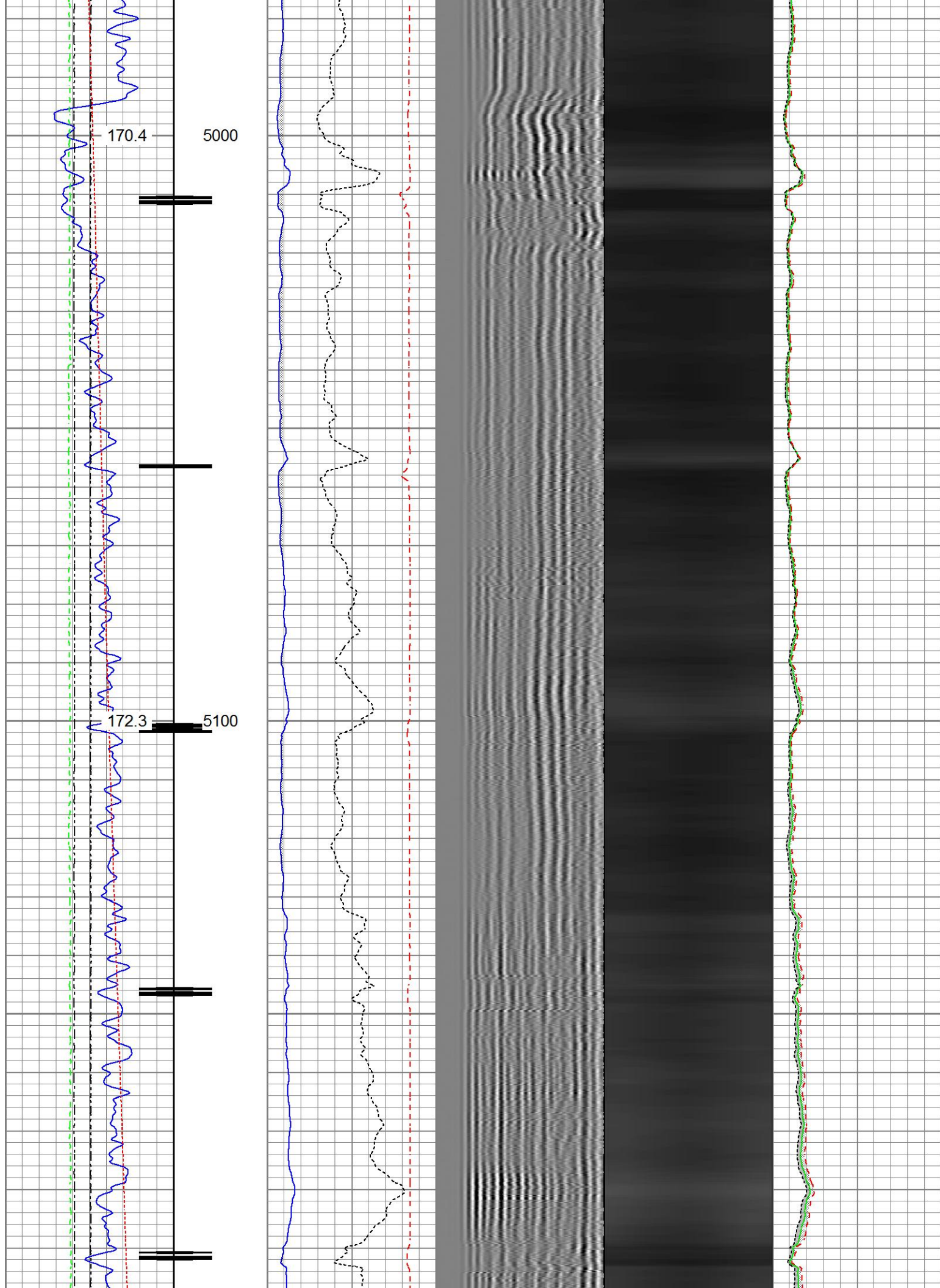


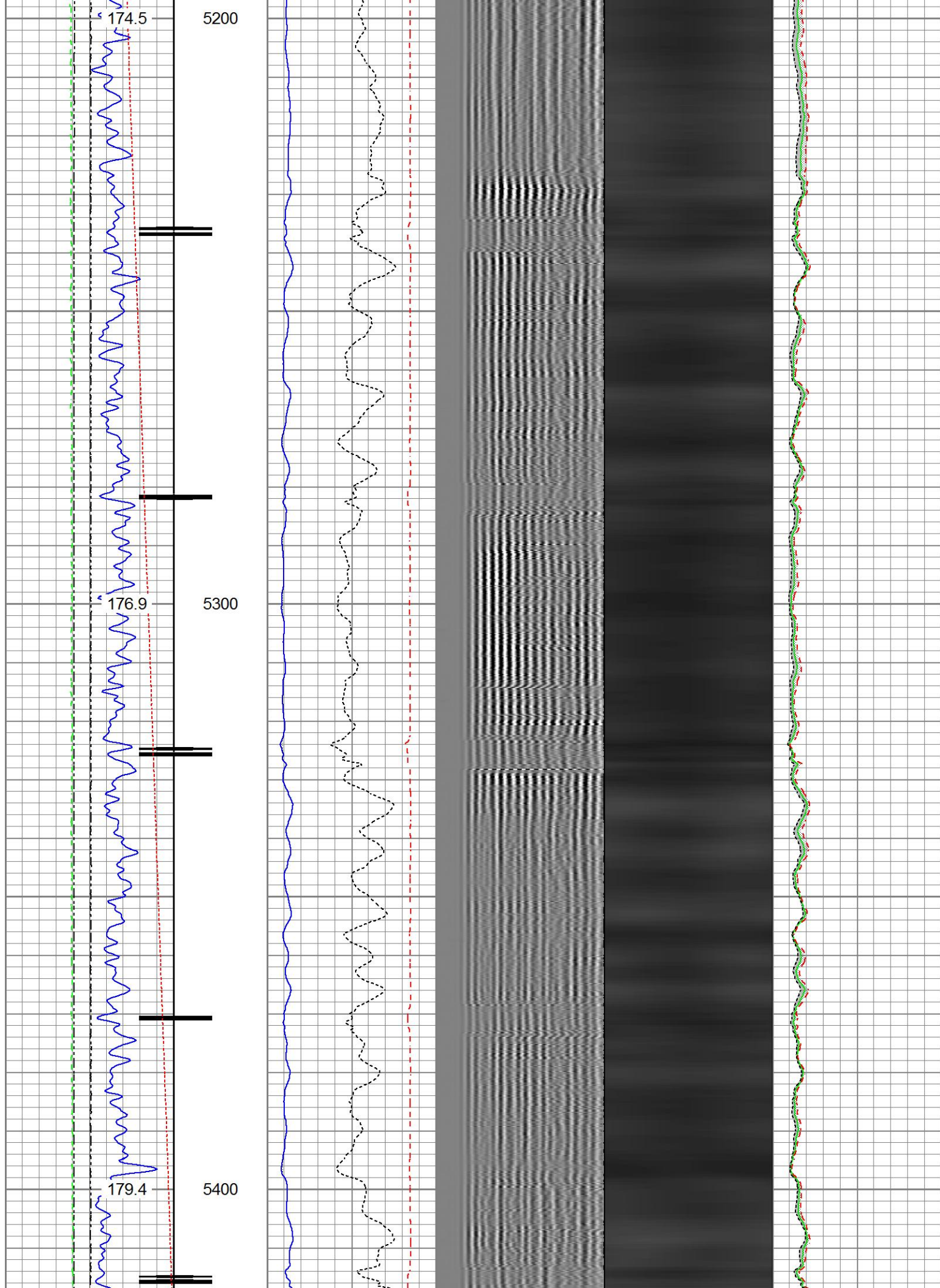


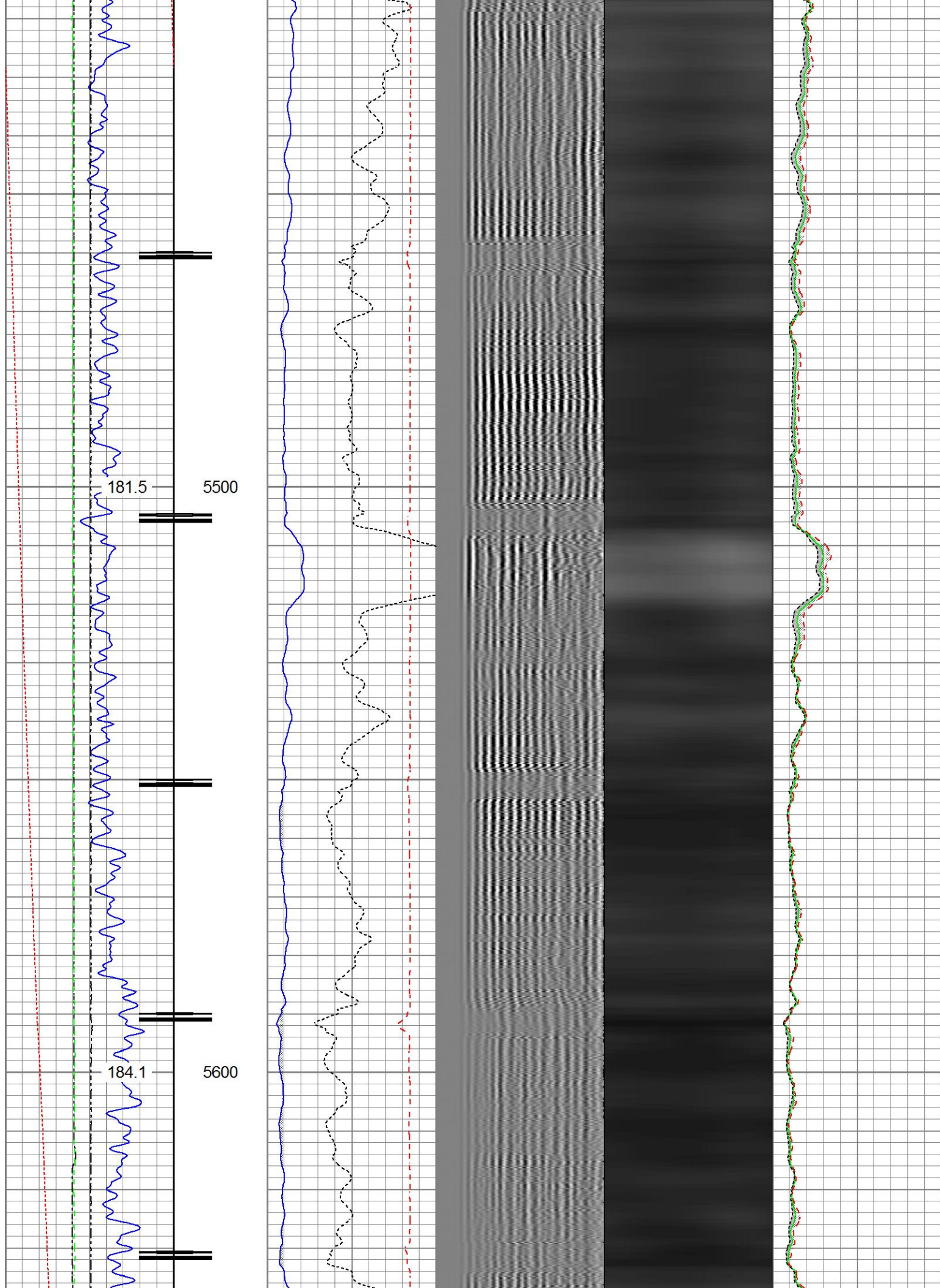


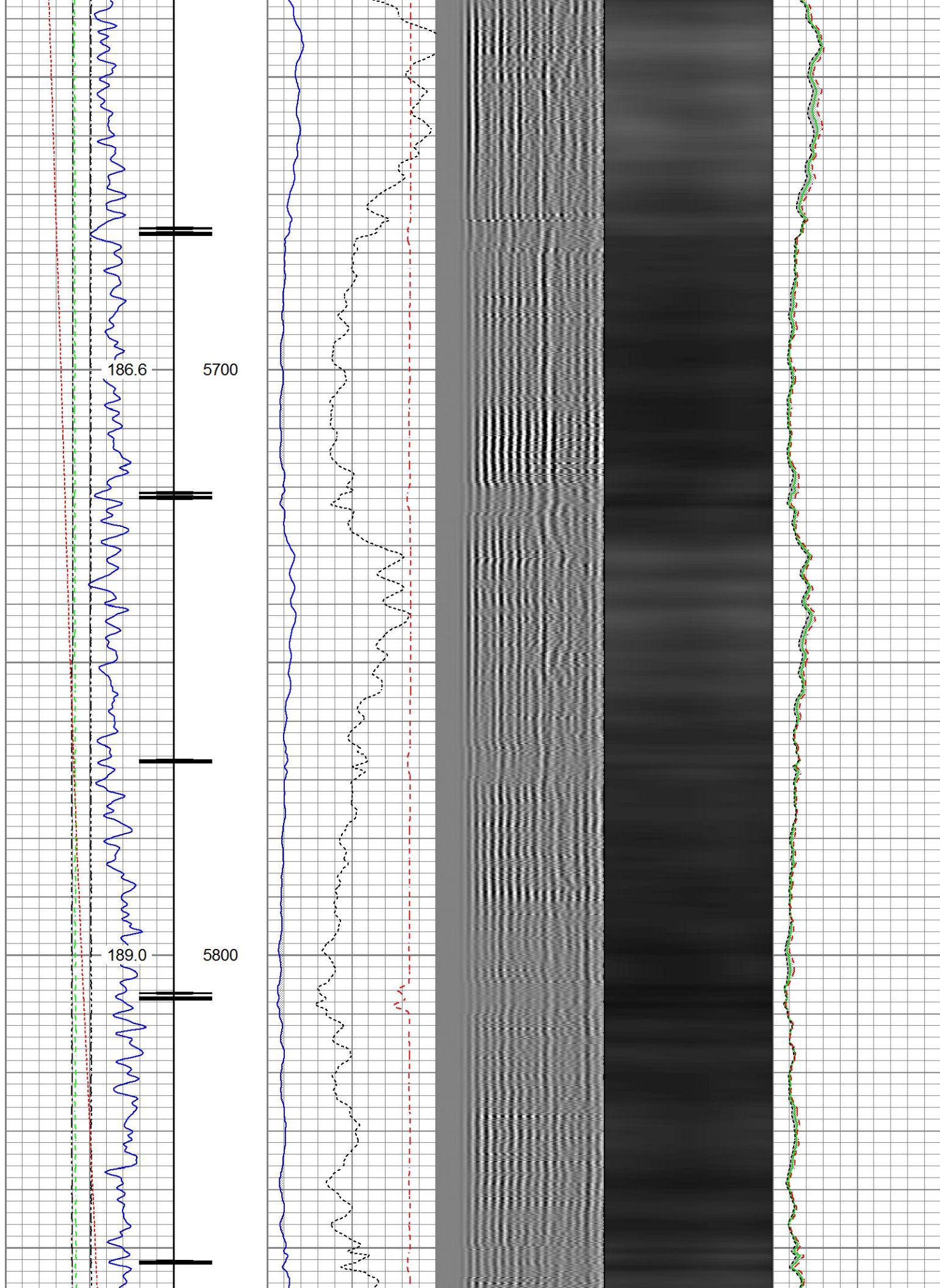


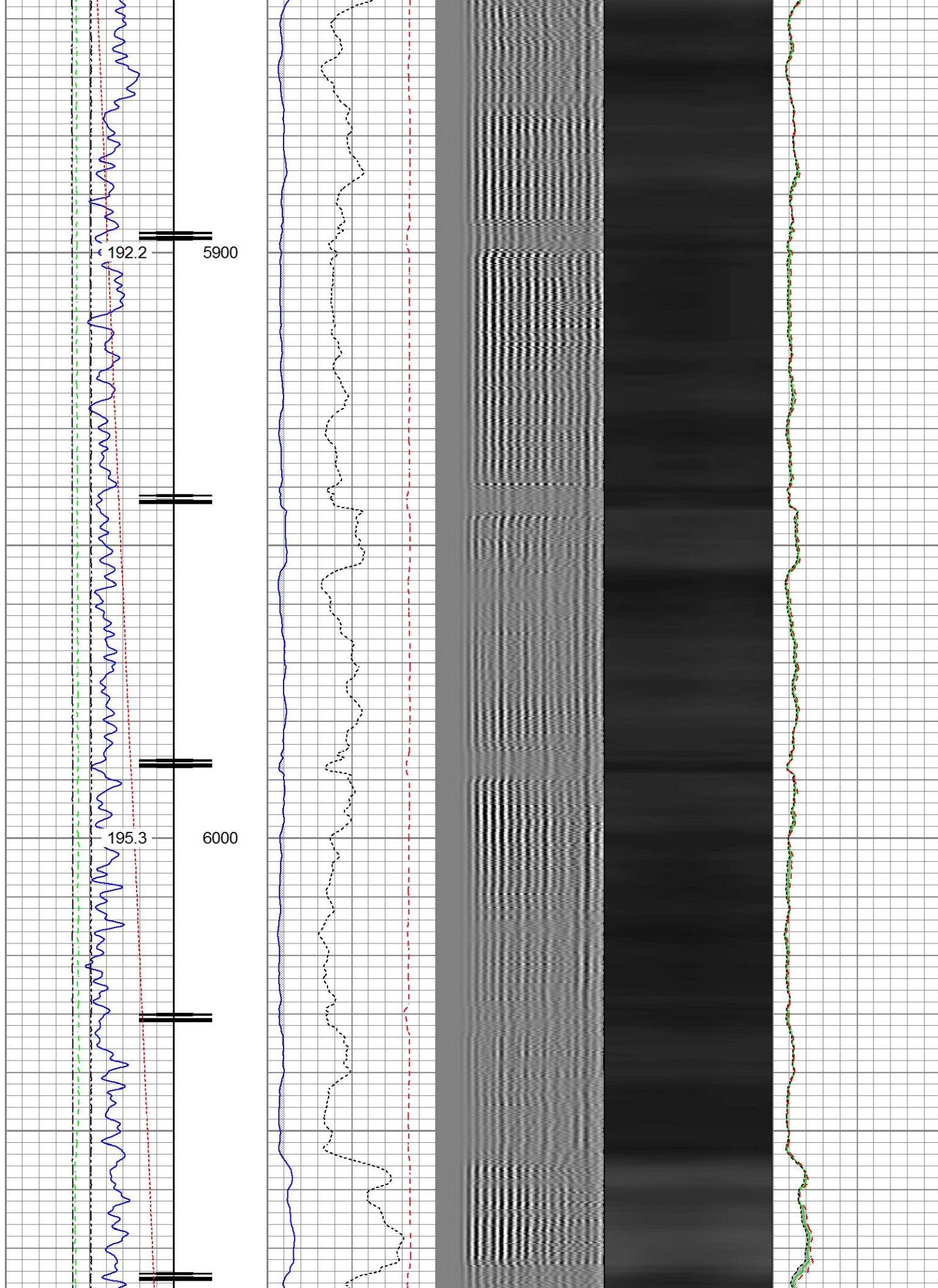


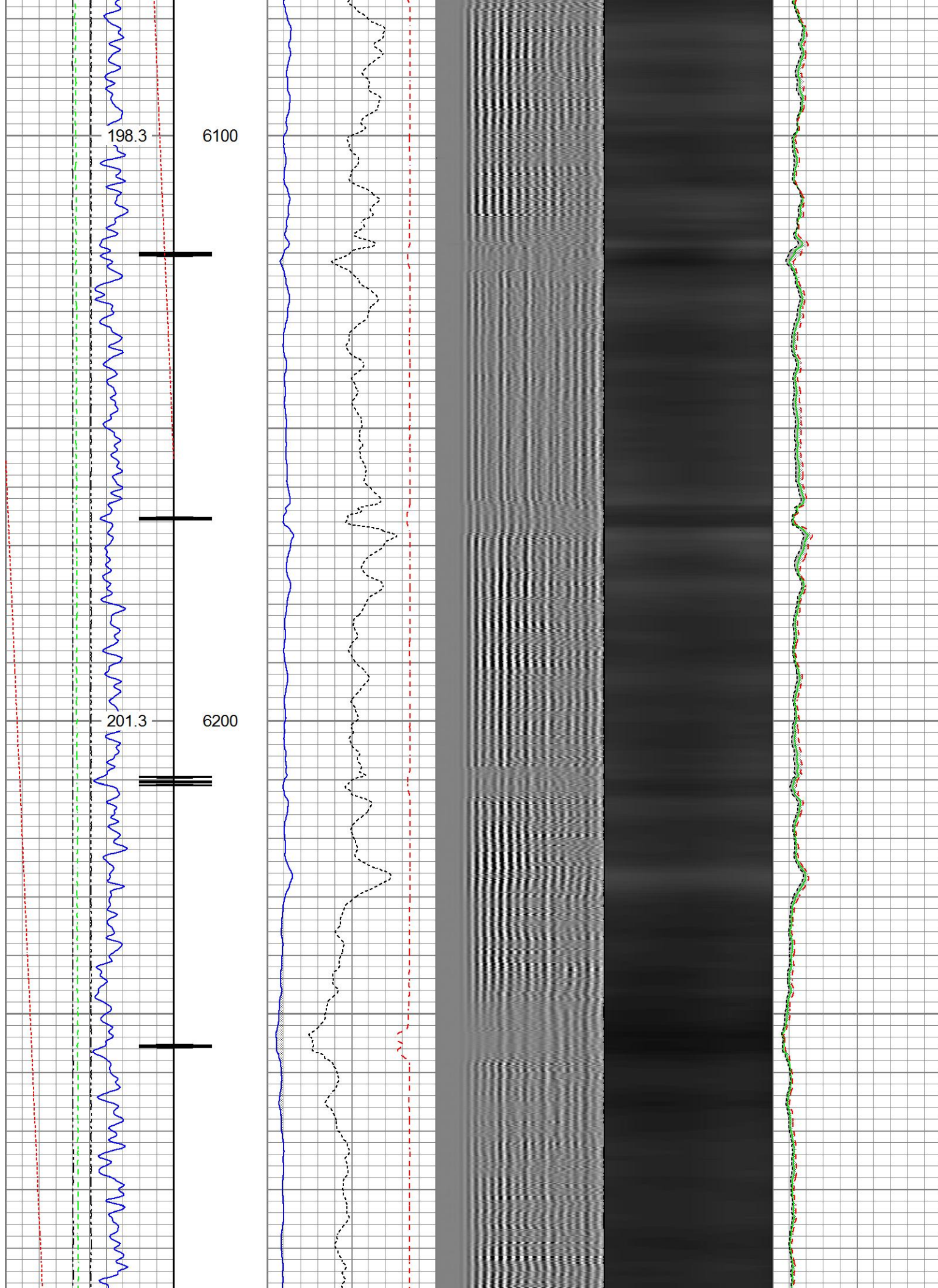


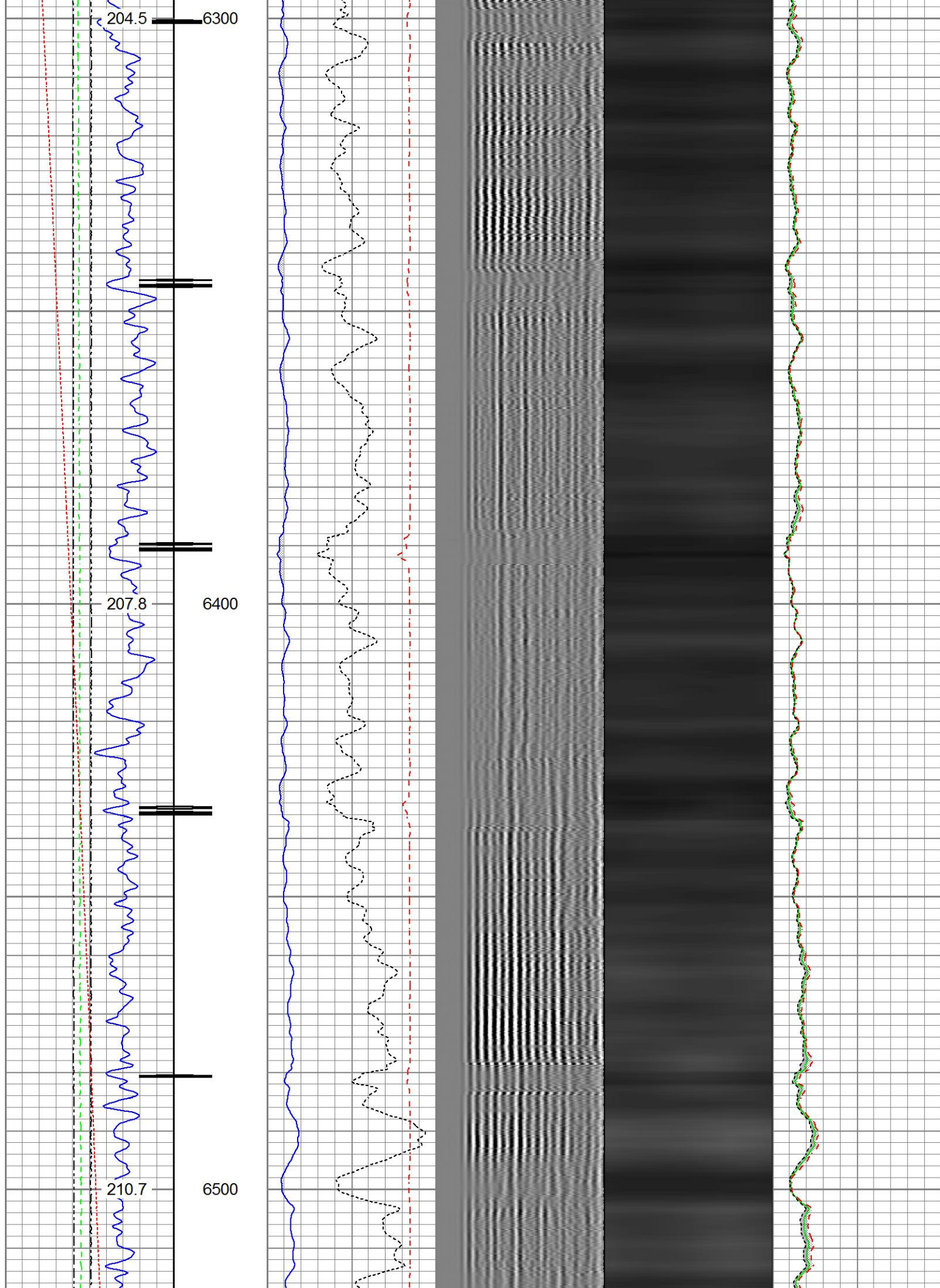


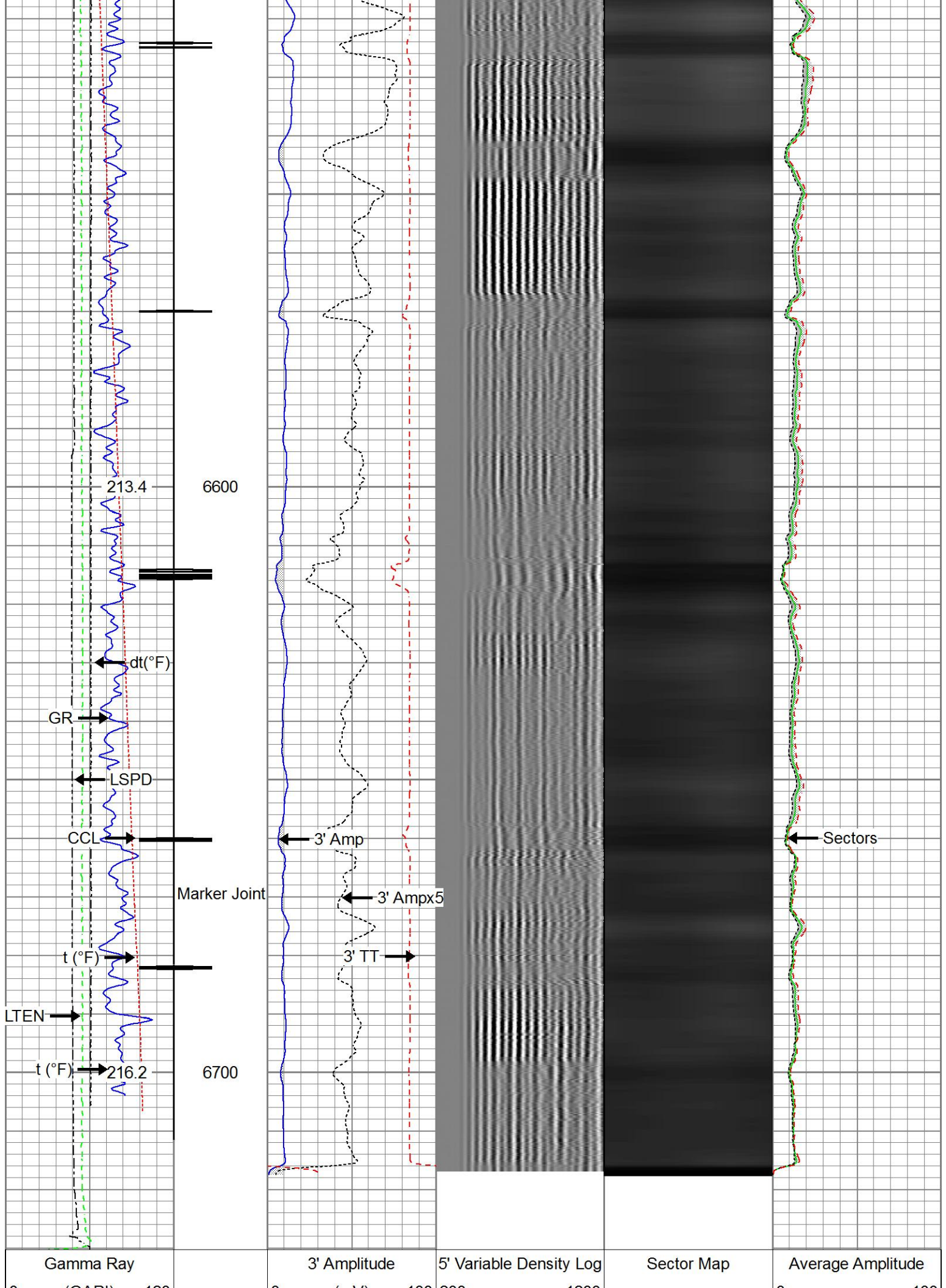












(GAPI) 120	0 (mV) 100 200 1200	0 100
Casing Collar Locator	3' Amplitude x 5	Minimum Amplitude
Line Speed	0 (mV) 20	0 100
-150 (ft/min) 150	3' Travel Time	Maximum Amplitude
Line Tension	650 (usec) 150	0 100
0 (lb) 2000		
Differential Temperature		
-2 (degF) 2		
Temperature		
0 (degF) 20		

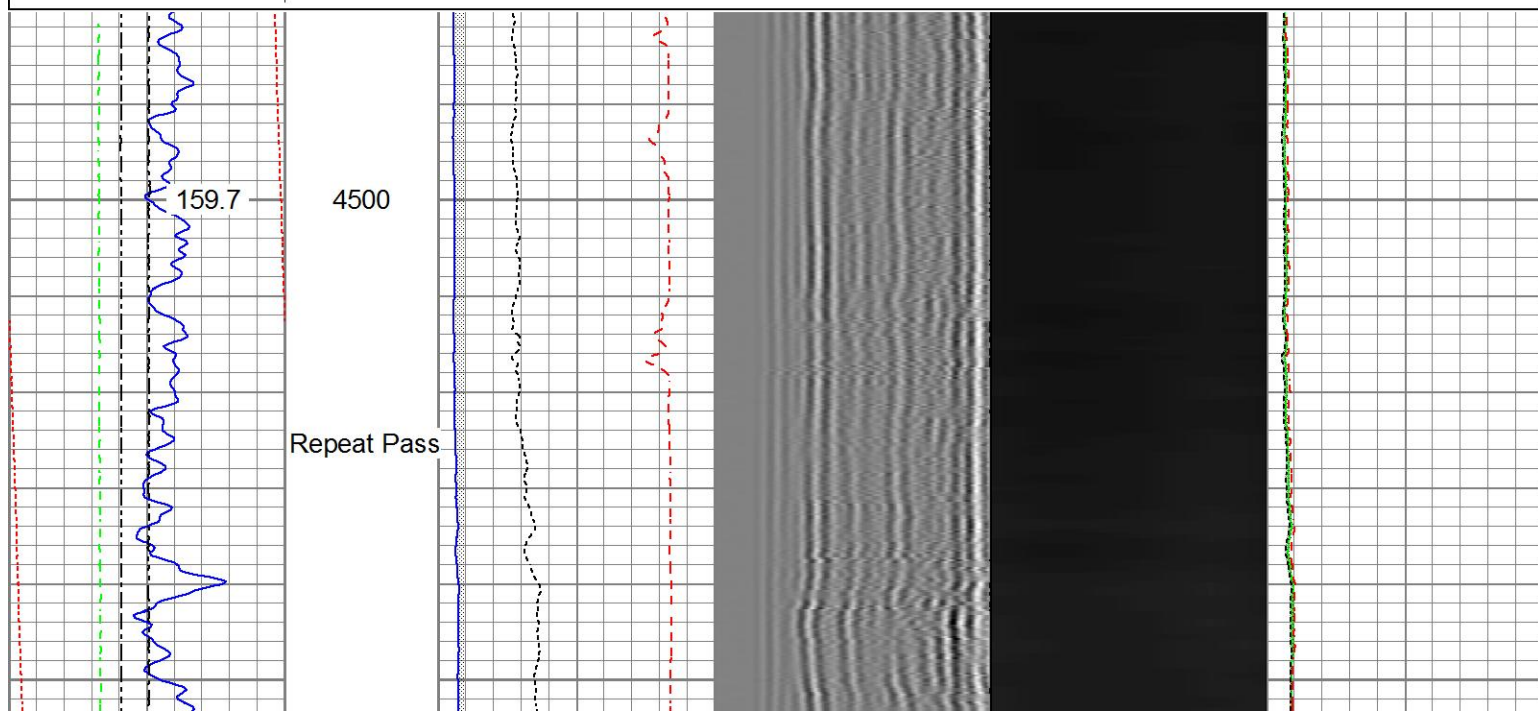


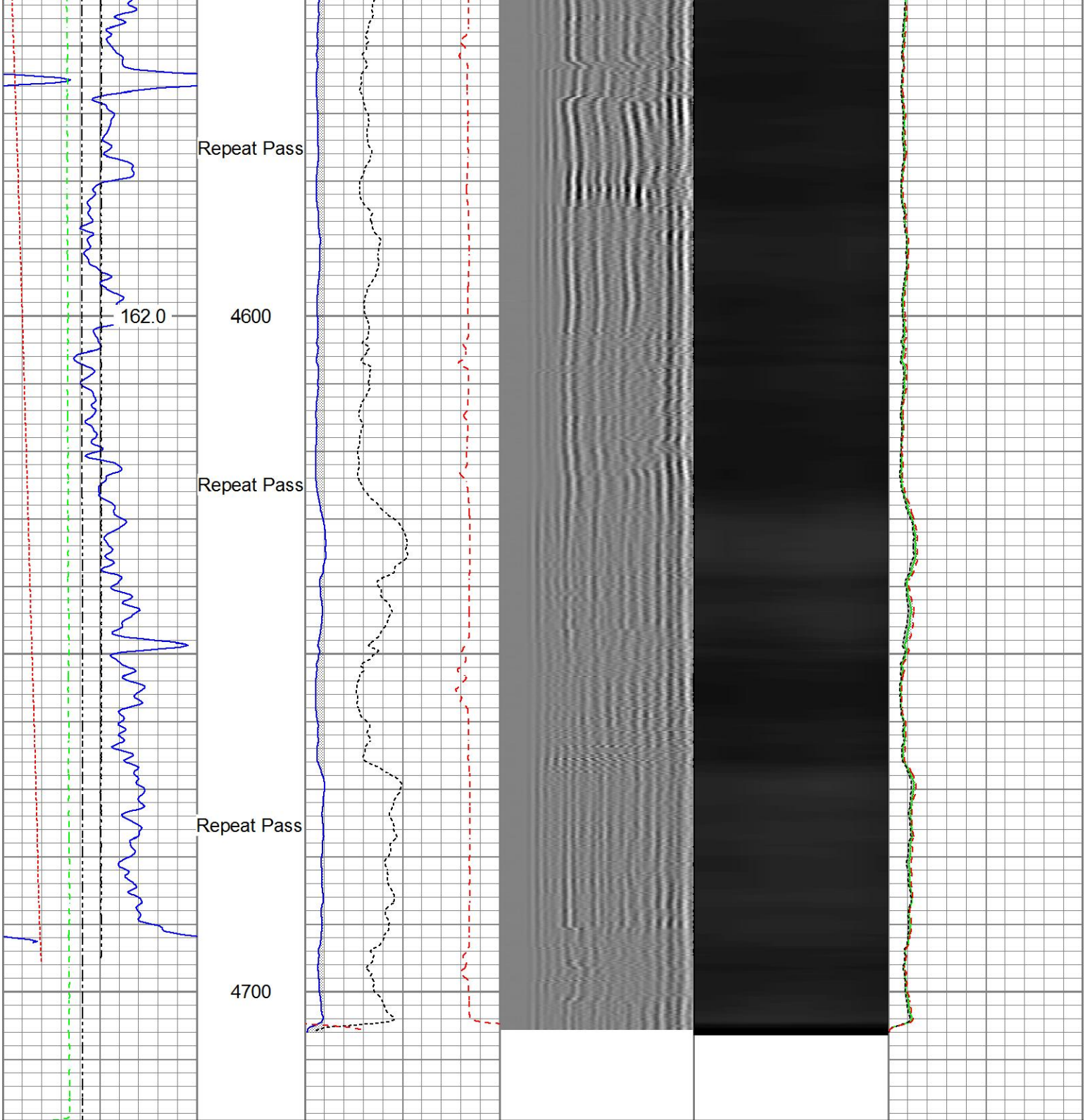
Repeat Pass

Recorded With 2800 PSI Surface Induced Pressure


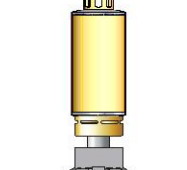
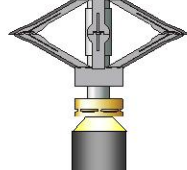
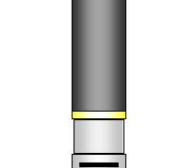
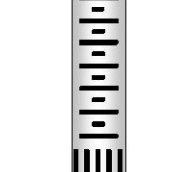
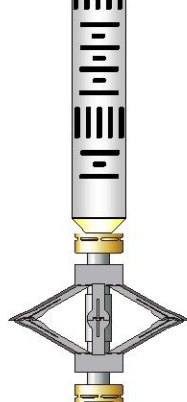
Database File anadarko_butterball 32c-34hz\0512344519_anadarko_butterball 32c-34hz_rbl_08-04-17.db
Dataset Pathname pass3
Presentation Format ros_rbt004_sx
Dataset Creation Fri Aug 04 09:57:00 2017
Charted by Depth in Feet scaled 1:240

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





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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	24.33		Titan_Electric_Cable_Heads-Titan_1-11/16	161.03	1.69	5.40	
			Electric Cable Head with 1" Fishing Neck				
			UW_AGS-UW_AGS_001 (218874)	0.21	1.69	1.00	
			Sondex Adapter - GO Box to Sondex Pin				
TEMP	22.93		UW_XTU-UW_XTU_002 (218874)	1.58	1.69	6.50	
			Crossover Ultrawire Toolbus to Ultralink				
			UW_PGR-UW_PGR_020 (10013902)	1.92	1.69	9.50	
CCL	21.69		Production Gamma Ray				
			UW_PRT-PRT_016 (10024052)	1.04	1.69	5.20	
			Platinum Resistance Thermometer				
			UW_CCL-UW_CCL_028 (10026417)	1.61	3.13	36.00	
			3-1/8" Ultrawire Casing Collar Locator				
			UW_PRC-DSS_RAC	2.55	2.75	32.00	
			5 Arm 2-3/4" Roller Centralizer				
			UW_RBT-UW_RBT_004 (1063)	9.48	3.13	140.00	
			Sondex Ultrawire 3-1/8" Radial Bond Tool				
CBLROT	14.29						
CBLTEMP	14.29						
WVFS8	14.29						
WVFS7	14.29						
WVFS6	14.29						
WVFS5	14.29						
WVFS4	14.29						
WVFS3	14.29						
WVFS2	14.29						
WVFS1	14.29						
WVF3FT	14.29						
WVF5FT	13.29						
CBLTEMP	9.16						
CNLSC	1.53		UW_PRC-DSS_RAC	2.55	2.75	32.00	
			5 Arm 2-3/4" Roller Centralizer				
			UW_CNL-UW_CNL_007 (1005)	6.61	1.69	30.00	
CNSSC	1.12		Sondex Compensated Neutron Logging Tool				
TSTAMP	0.00						

Dataset: 0512344519_anadarko_butterball 32c-34hz_rbl_08-04-17.db: field/well/run1/pass6
 Total length: 28.58 ft
 Total weight: 297.60 lb

Calibration Report

Database File d:\warrior\data\anadarko_butterball 32c-34hz\0512344519_anadarko_butterball 32c-34hz_rbl_08-04-17.db
 Dataset Pathname pass6
 Dataset Creation Fri Aug 04 10:31:04 2017

Compensated Neutron Calibration Report

Serial Number: 1005
 Tool Model: UW_CNL_007

Master Calibration Sun Feb 07 11:39:11 2016

Detector Readings

Short Space 240.87 cps
 Long Space 303.55 cps

Ratio Measured Reference
 0.8150 Sleeve: 1.0000
 CNRAT Gain K 1.0271

Before Survey

Detector Readings

Short Space cps
 Long Space cps

Ratio Measured Reference

After Survey

Detector Readings

Short Space cps
 Long Space cps

Ratio Measured Reference

Segmented Cement Bond Log Calibration Report

Serial Number: 1063
 Tool Model: UW_RBT_004

Calibration Casing Diameter: 5.500 in
 Calibration Depth: -46.053 ft

Master Calibration, performed Fri Aug 04 08:43:56 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.002	1.011	0.800	71.921	70.203	0.971
5FT	-0.006	0.917	0.800	71.921	77.065	1.270
S1	-0.003	0.992	0.000	100.000	100.407	0.351
S2	-0.002	1.001	0.000	100.000	99.633	0.244
S3	-0.002	1.012	0.000	100.000	98.559	0.241
S4	-0.003	1.045	0.000	100.000	95.419	0.292
S5	-0.002	1.037	0.000	100.000	96.316	0.163
S6	-0.003	1.024	0.000	100.000	97.385	0.250
S7	-0.002	0.995	0.000	100.000	100.228	0.242

Temperature Calibration Report

Serial Number: 10024052
 Tool Model: PRT_016
 Performed: Sun Oct 11 12:16:39 2015

Point #	Reading		Reference	
1	12242.00	cps	68.00	degF
2	18329.00	cps	104.00	degF
3	29563.00	cps	176.00	degF
4	41222.00	cps	248.00	degF
5	52988.00	cps	320.00	degF
6	58824.00	cps	356.00	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number: 10013902
 Tool Model: UW_PGR_020
 Performed: (Not Performed)

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps



Company Kerr-McGee Oil & Gas Onshore, L.P.
 Well Butterball 32C-34HZ
 Field Wattenberg
 County Weld
 State Colorado