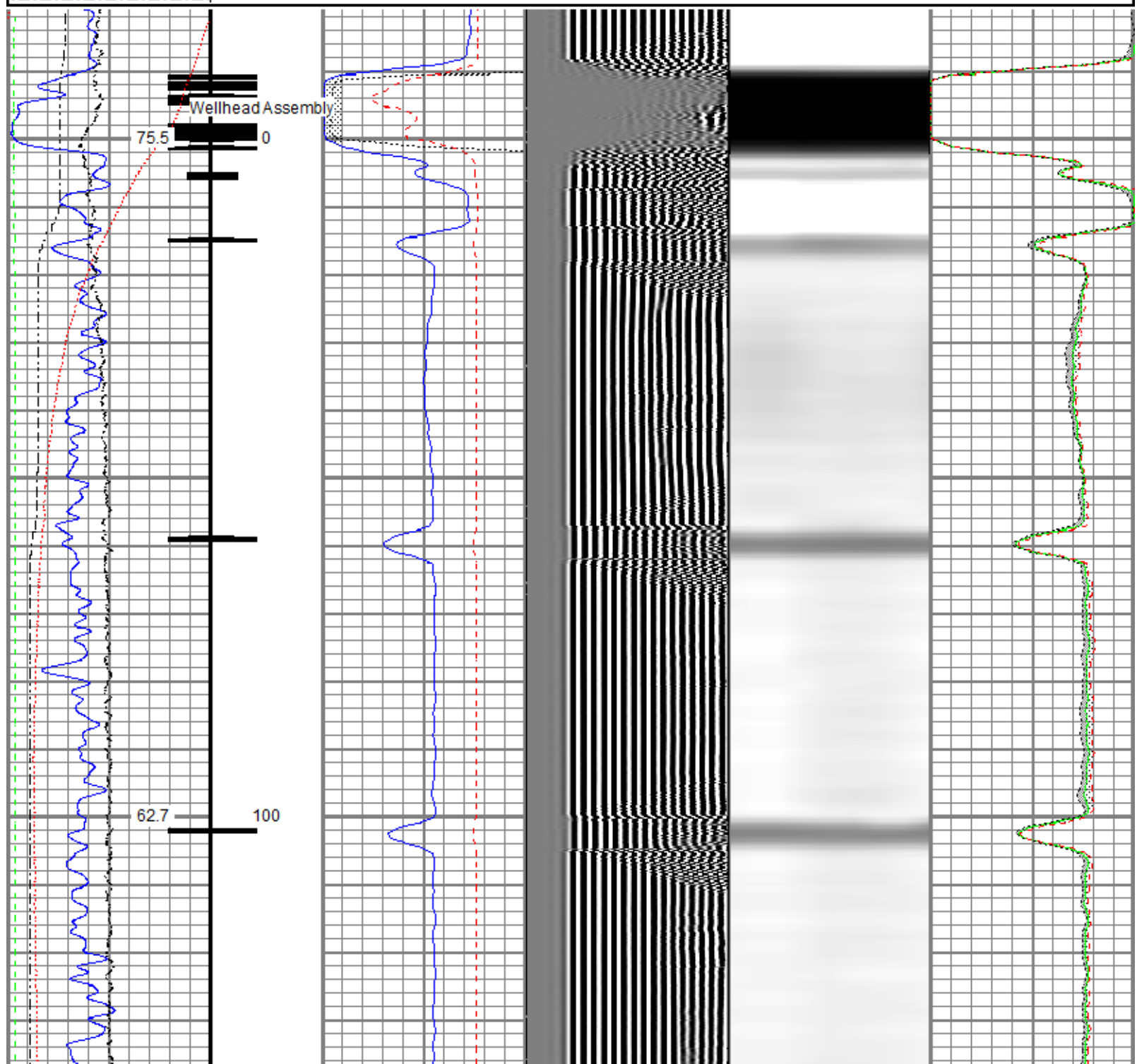
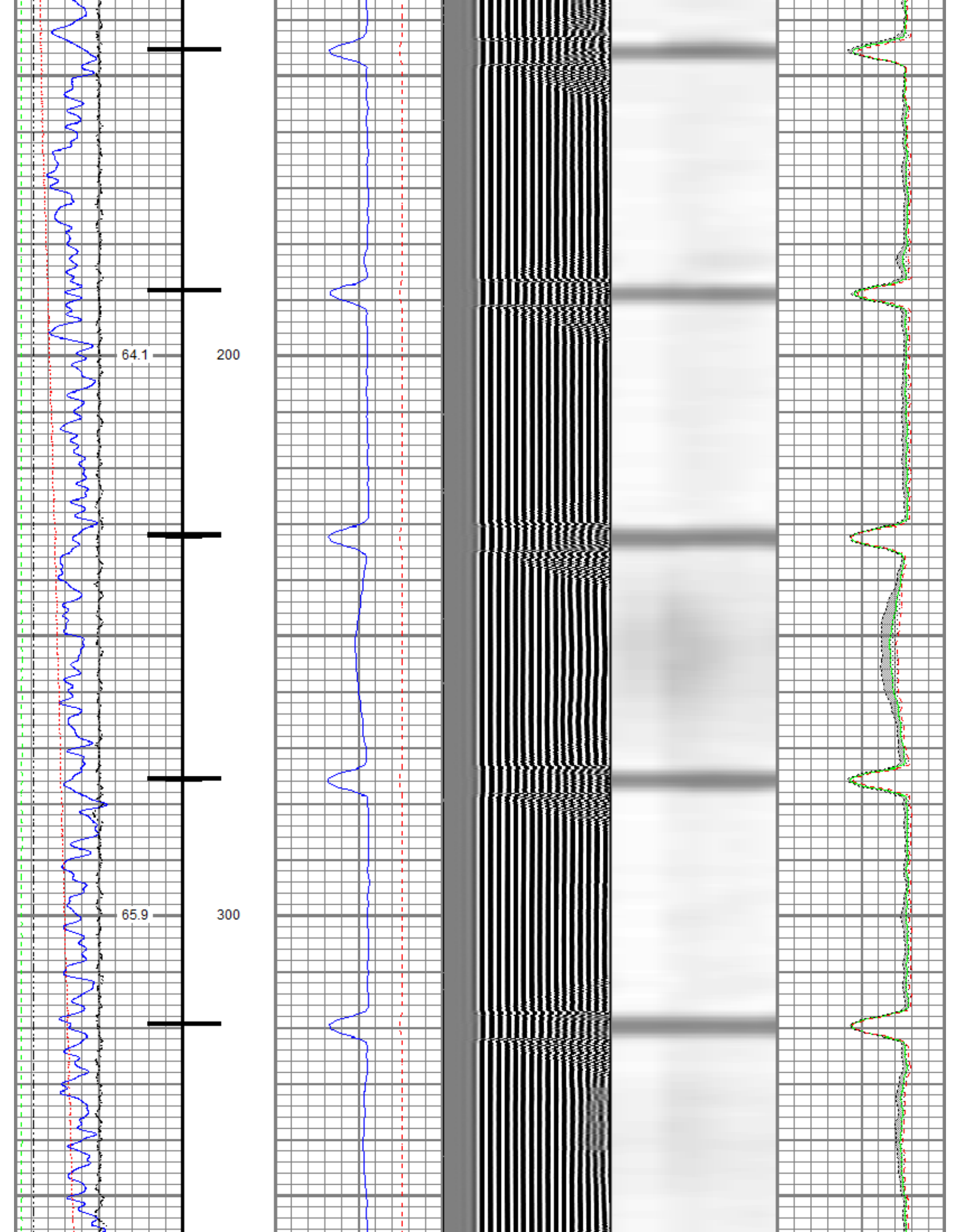


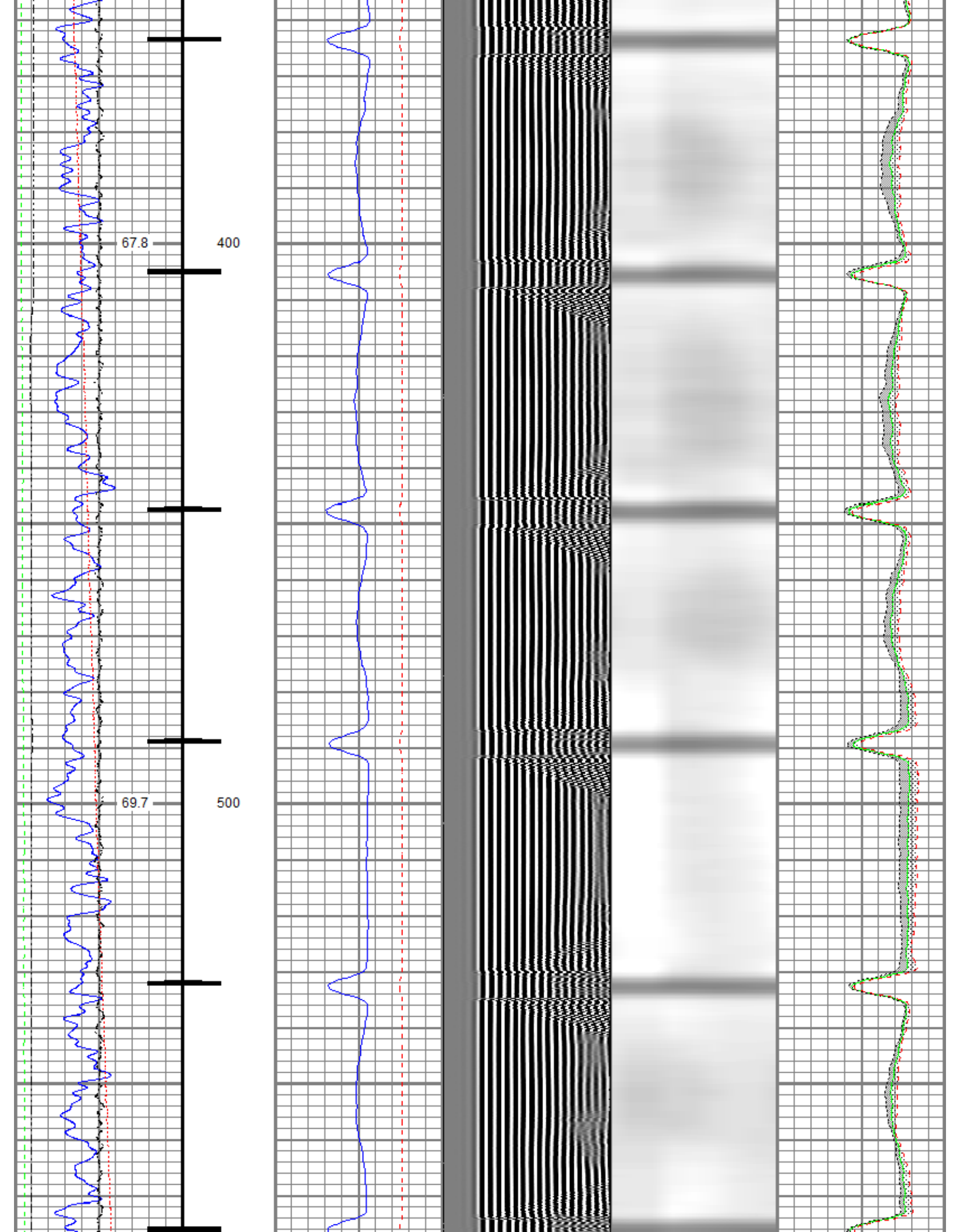
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
Log ran as per customer request Depth referenced to Casing Tally reported Marker Joint at 7064 FT Adjusted +1 FT to correlate with Marker Joint Gauge Ring/Junk Basket ran to 8122 FT Retrievable Bridge Plug set at 7147 FT Log ran with 2800 PSI Surface Induced Pressure Logging tools were clean and free of debris upon completion of operations Thank you for choosing Reliance Oilfield Services, LLC!!

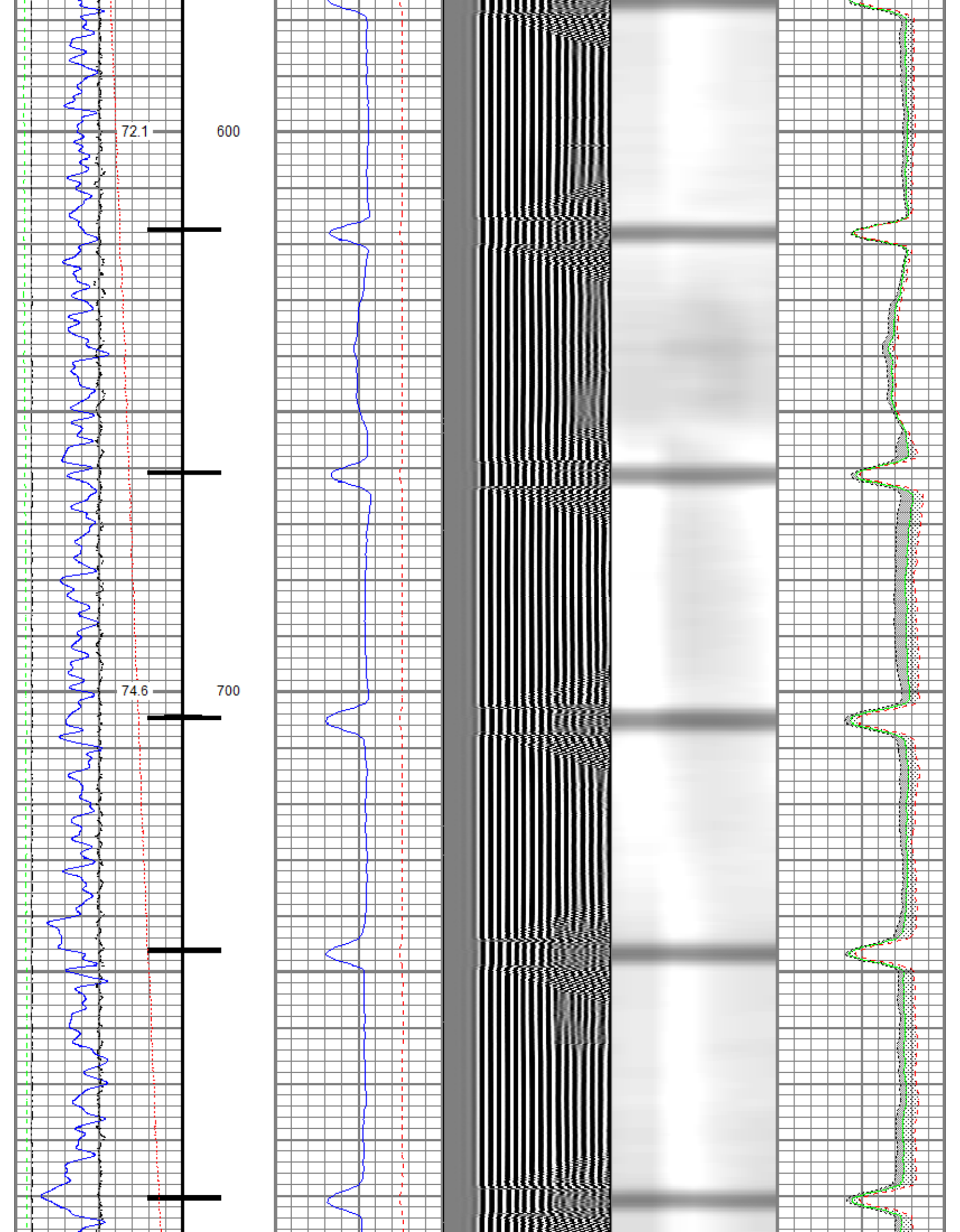
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Dataset Pathname	2800rbl/pass4.5
Presentation Format	ros_radri
Dataset Creation	Fri Aug 02 12:52:09 2019
Charted by	Depth in Feet scaled 1:240

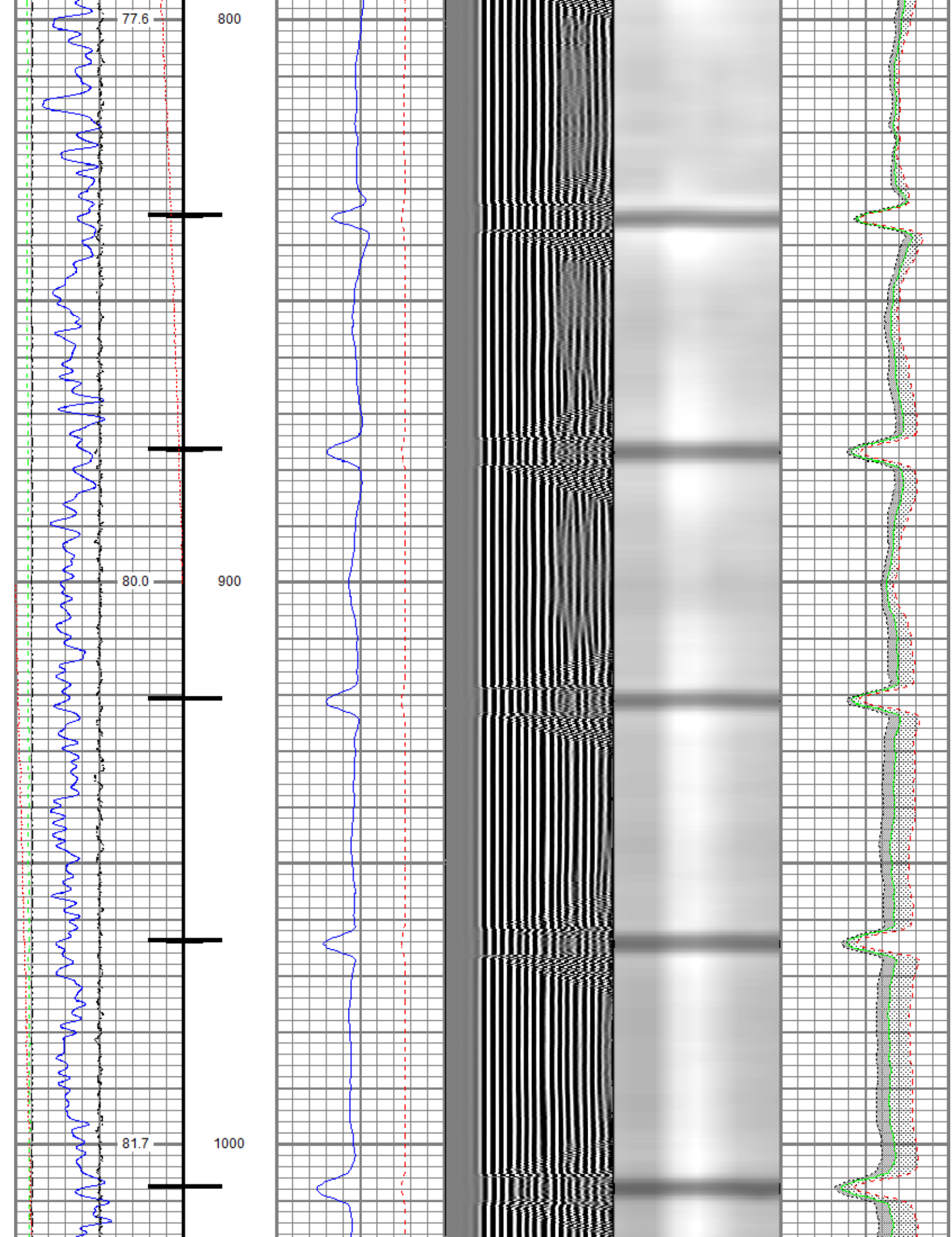
Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
(GAPI)	120	3' Amplitude x 5	200	(usec)	1200		Minimum Amplitude	
Casing Collar Locator		0	(mV)	20		0	100	
0 Temperature (degF)	20	3' Travel Time					Maximum Amplitude	
Line Speed		650	(usec)	150		0	100	
-150 (ft/min)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

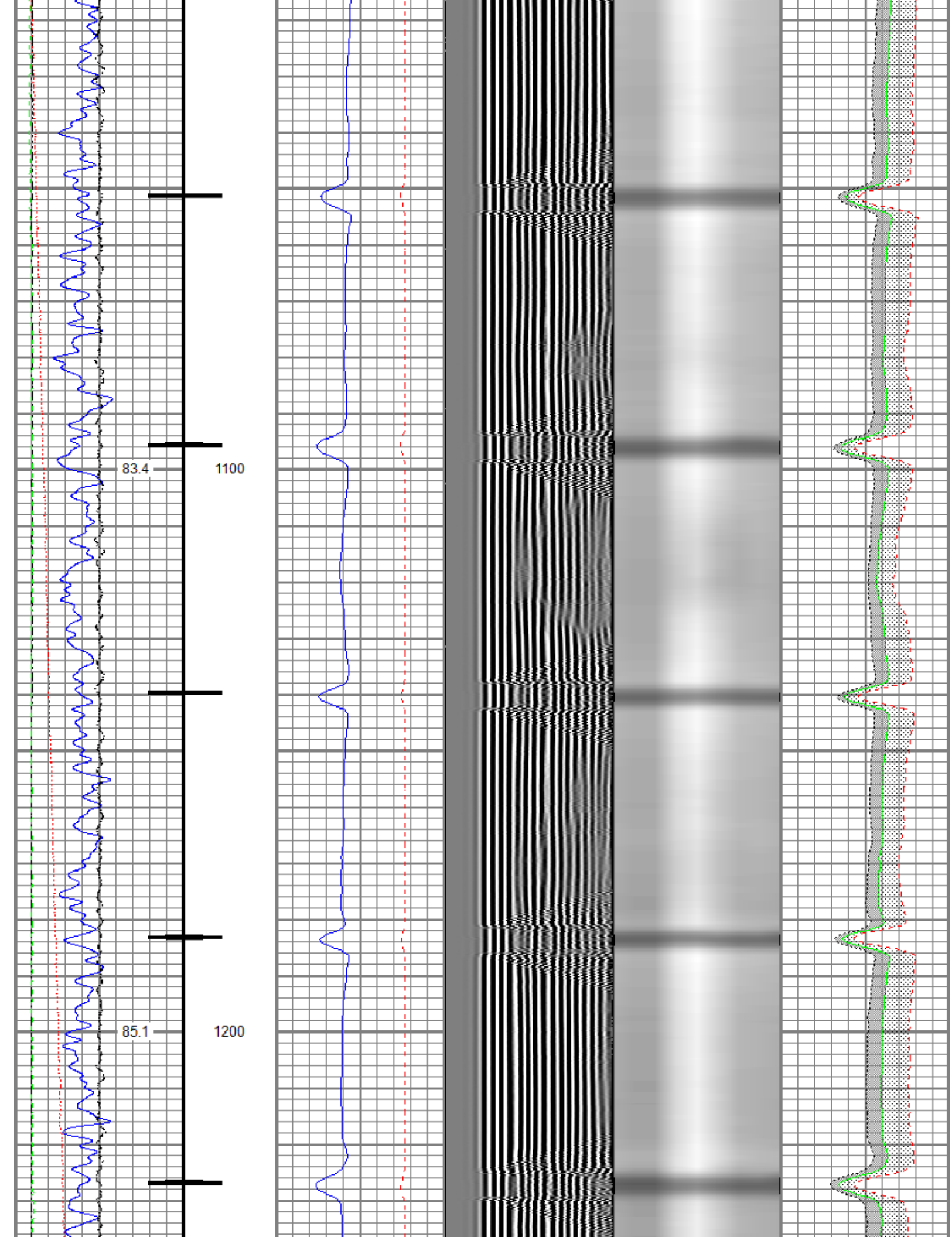


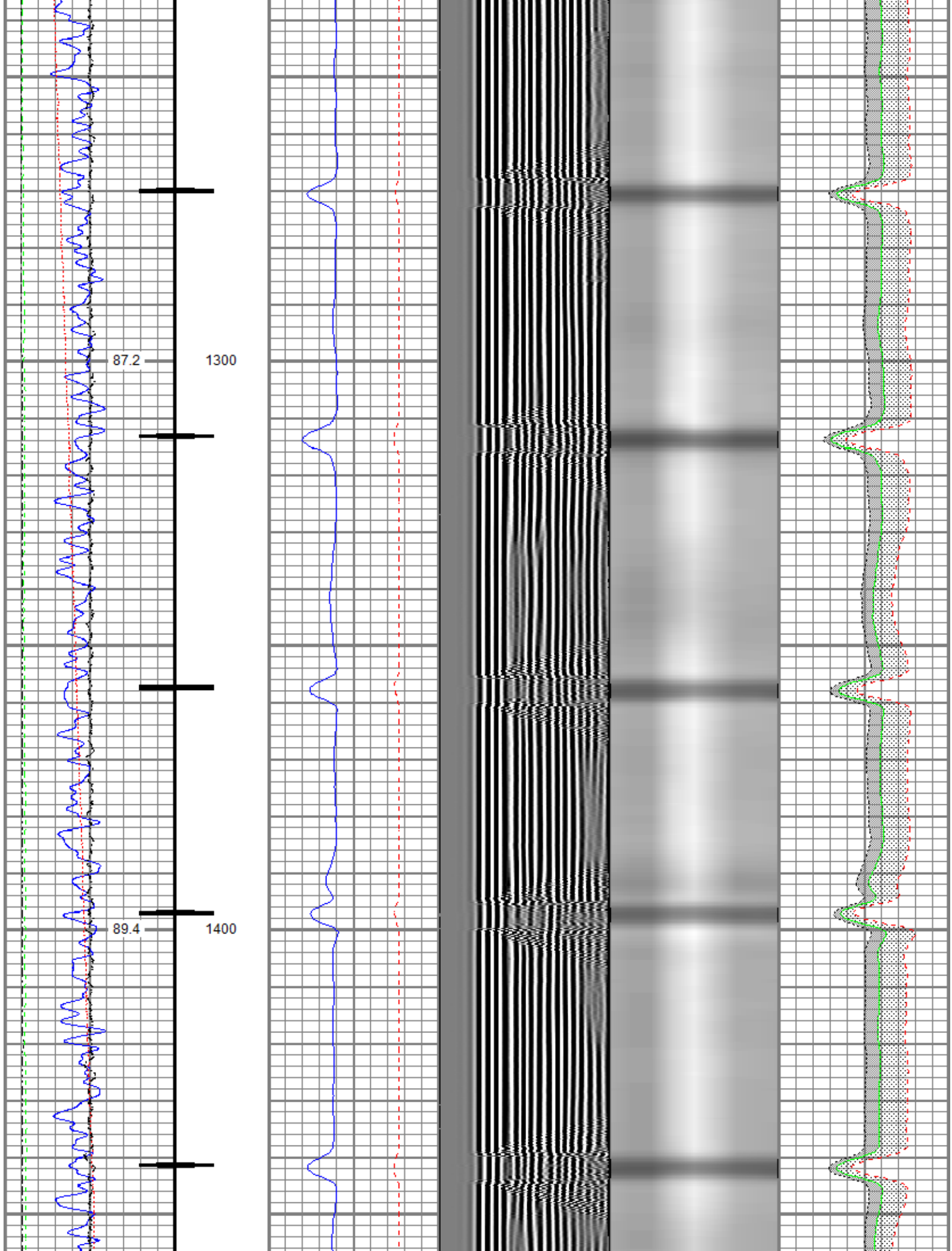


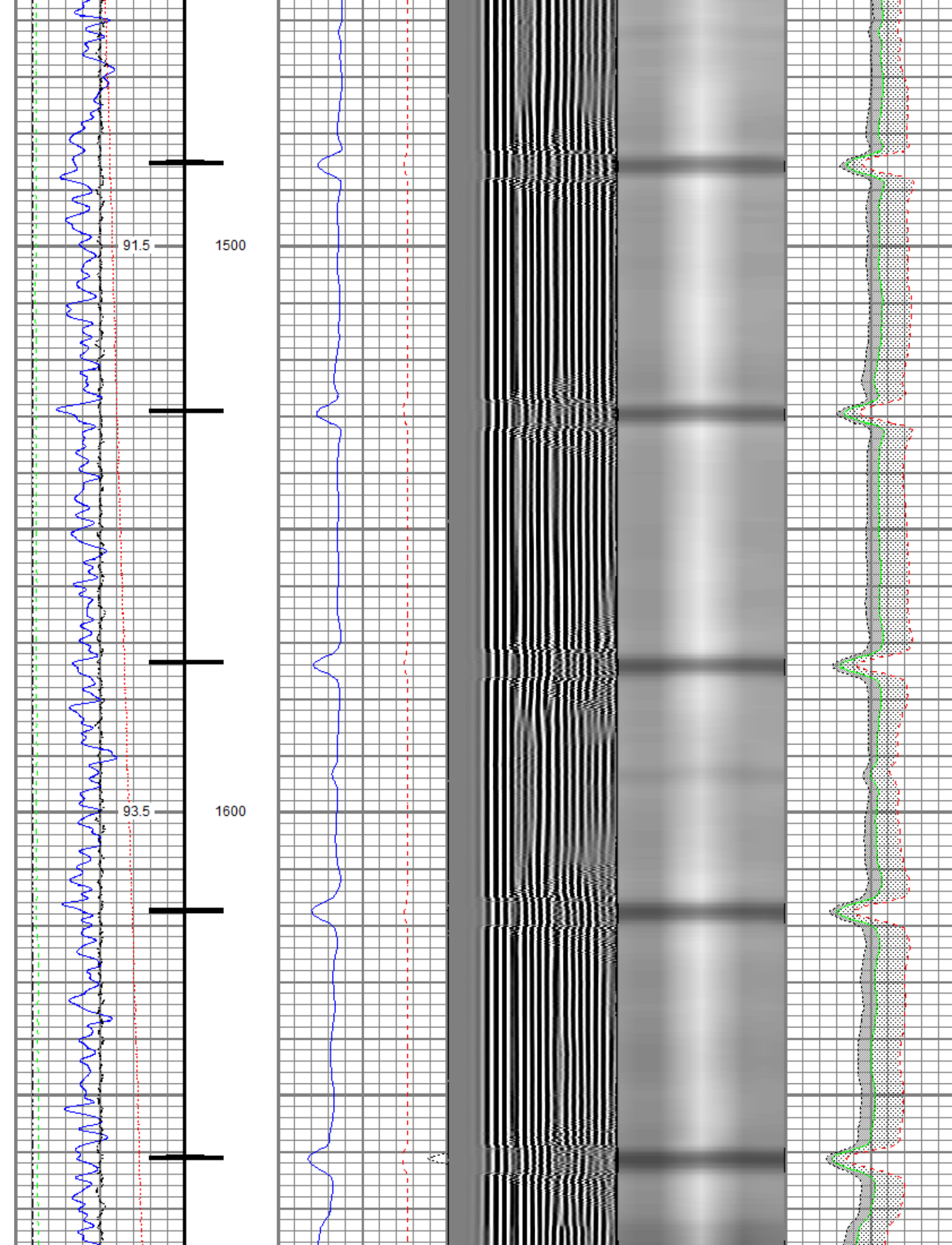


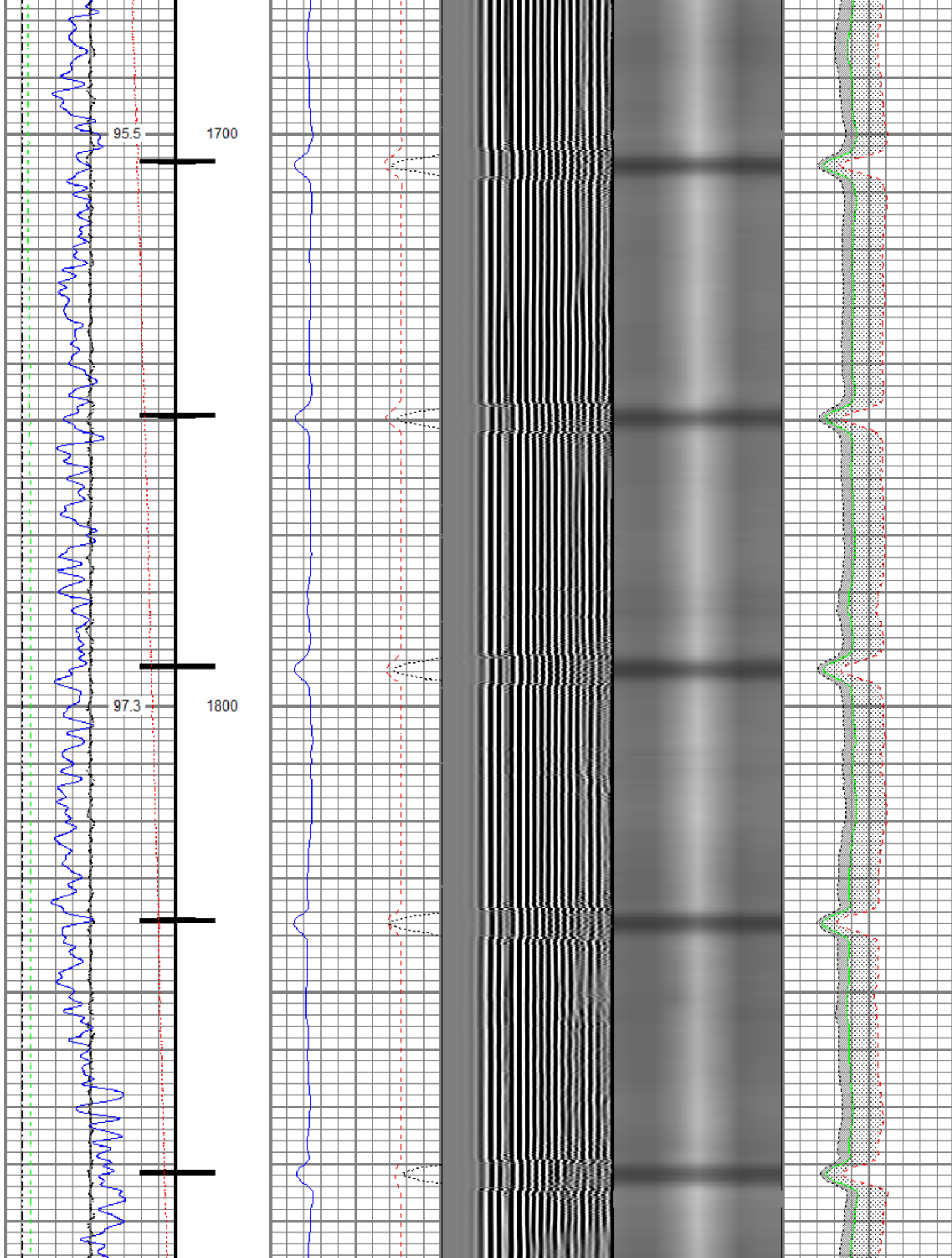


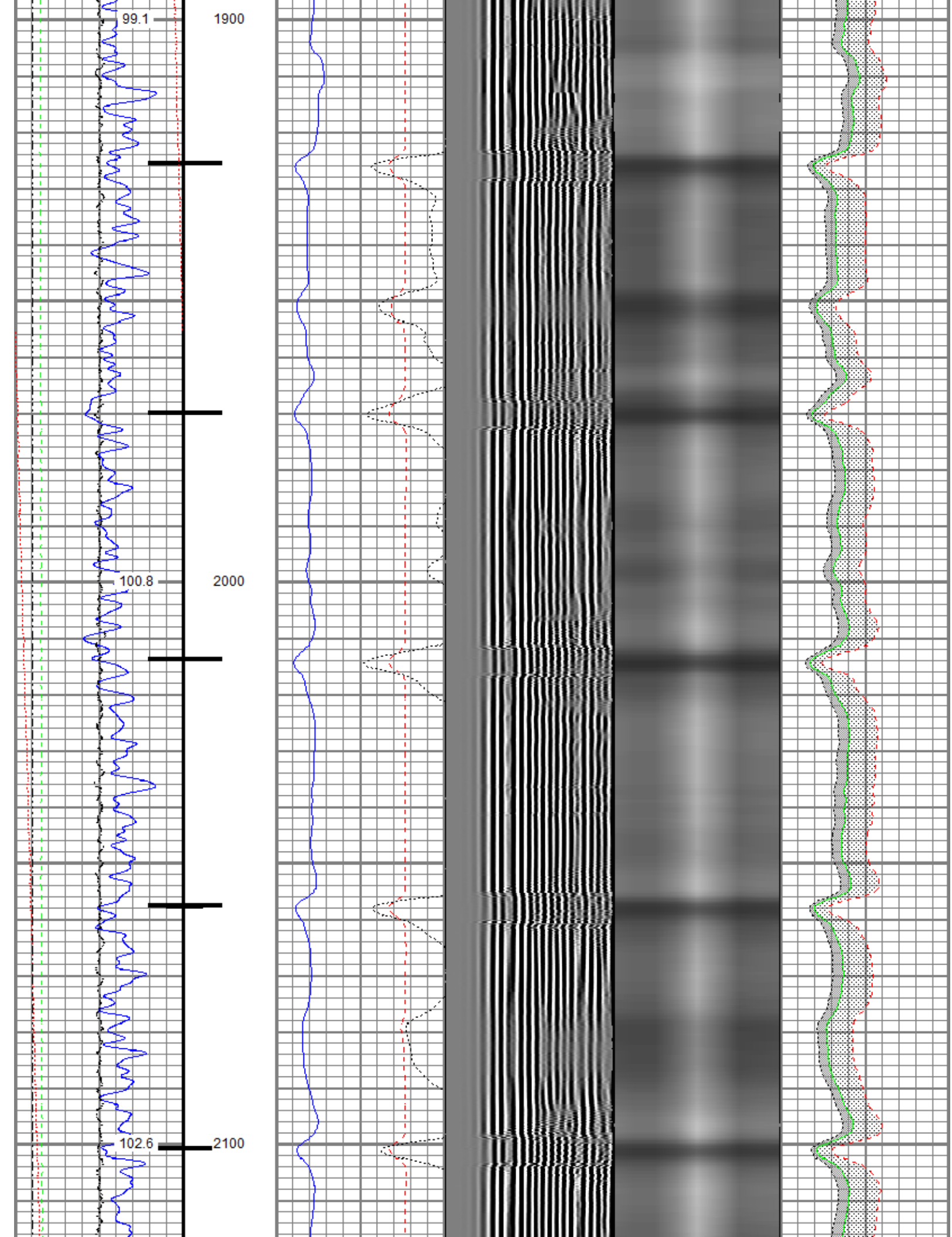


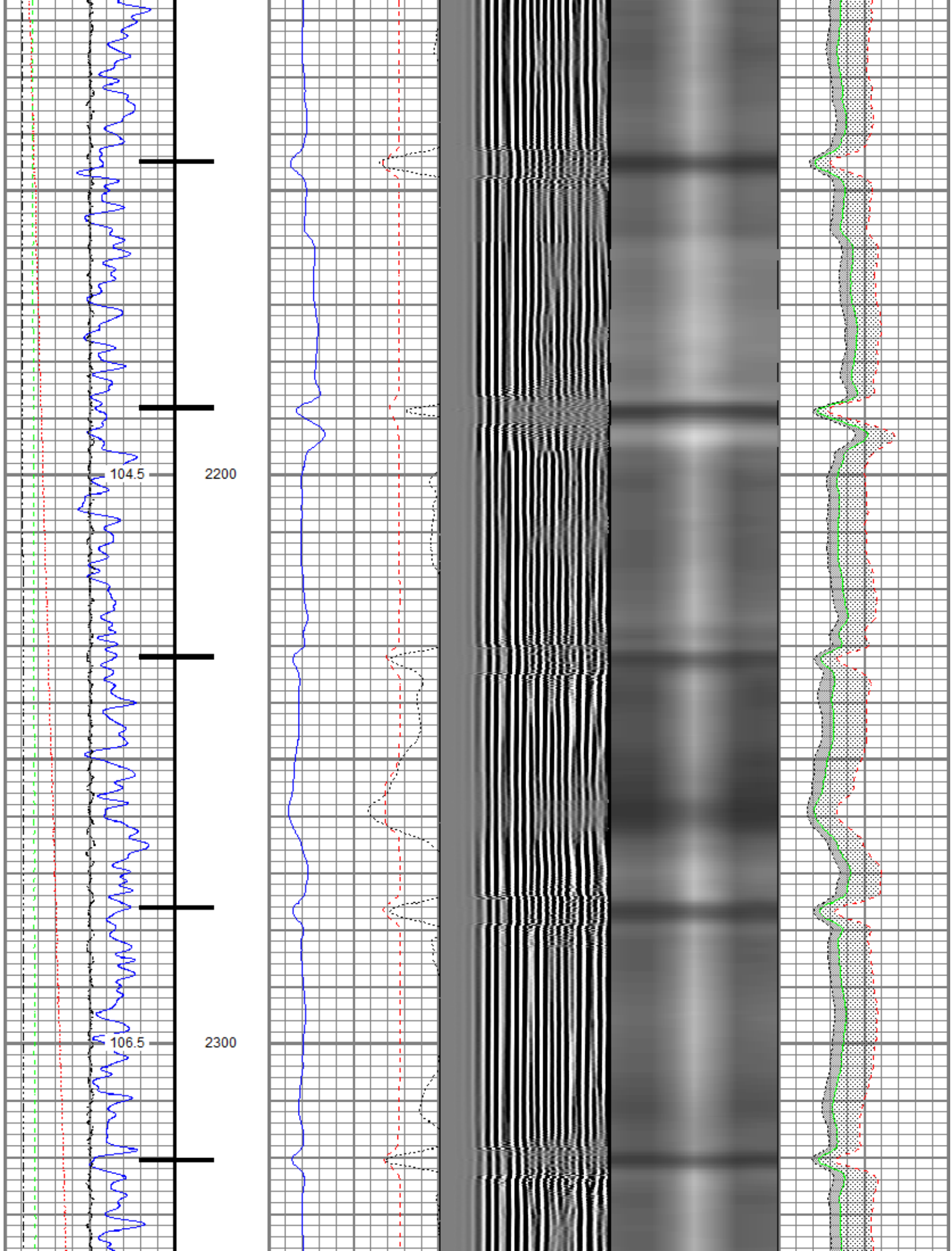


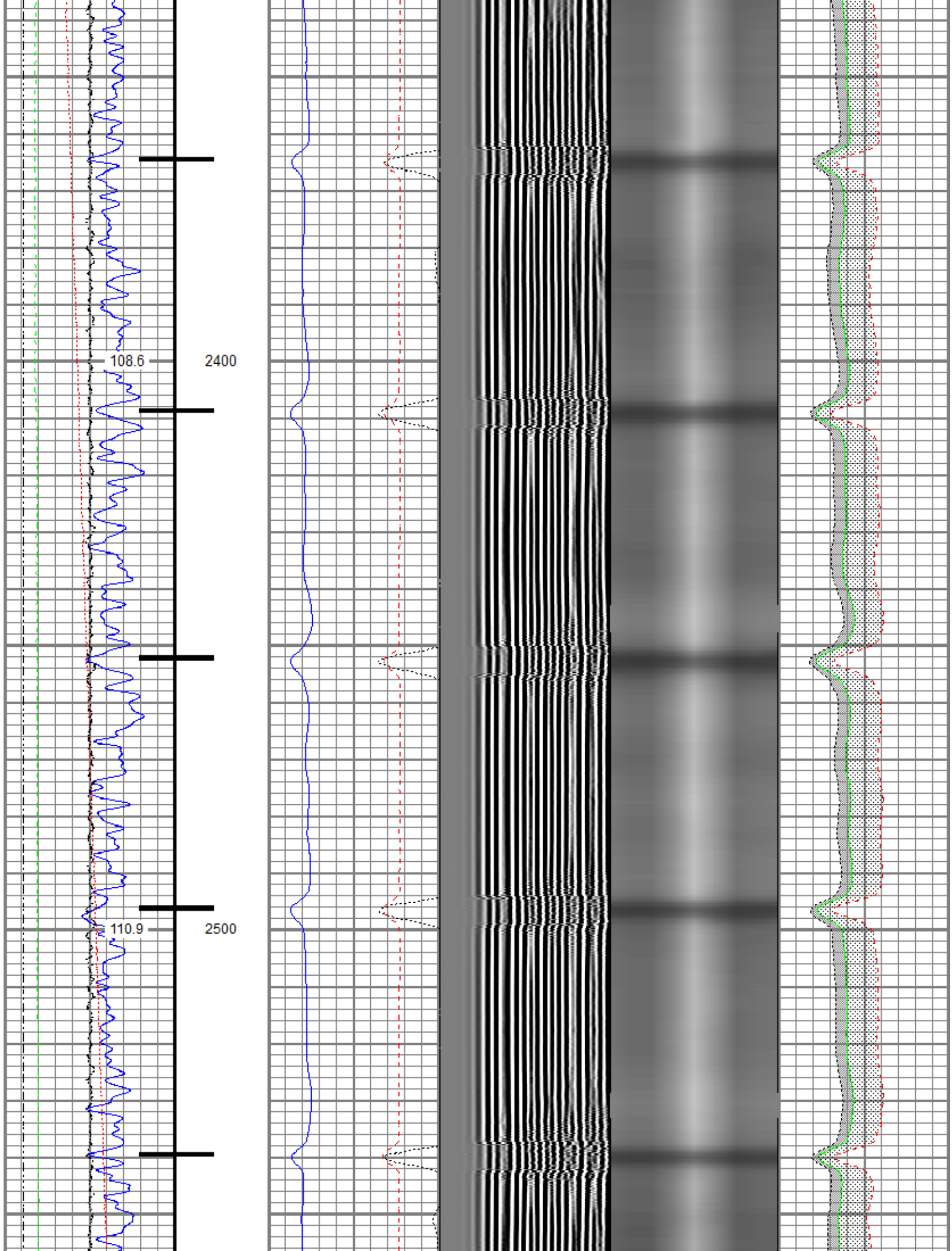


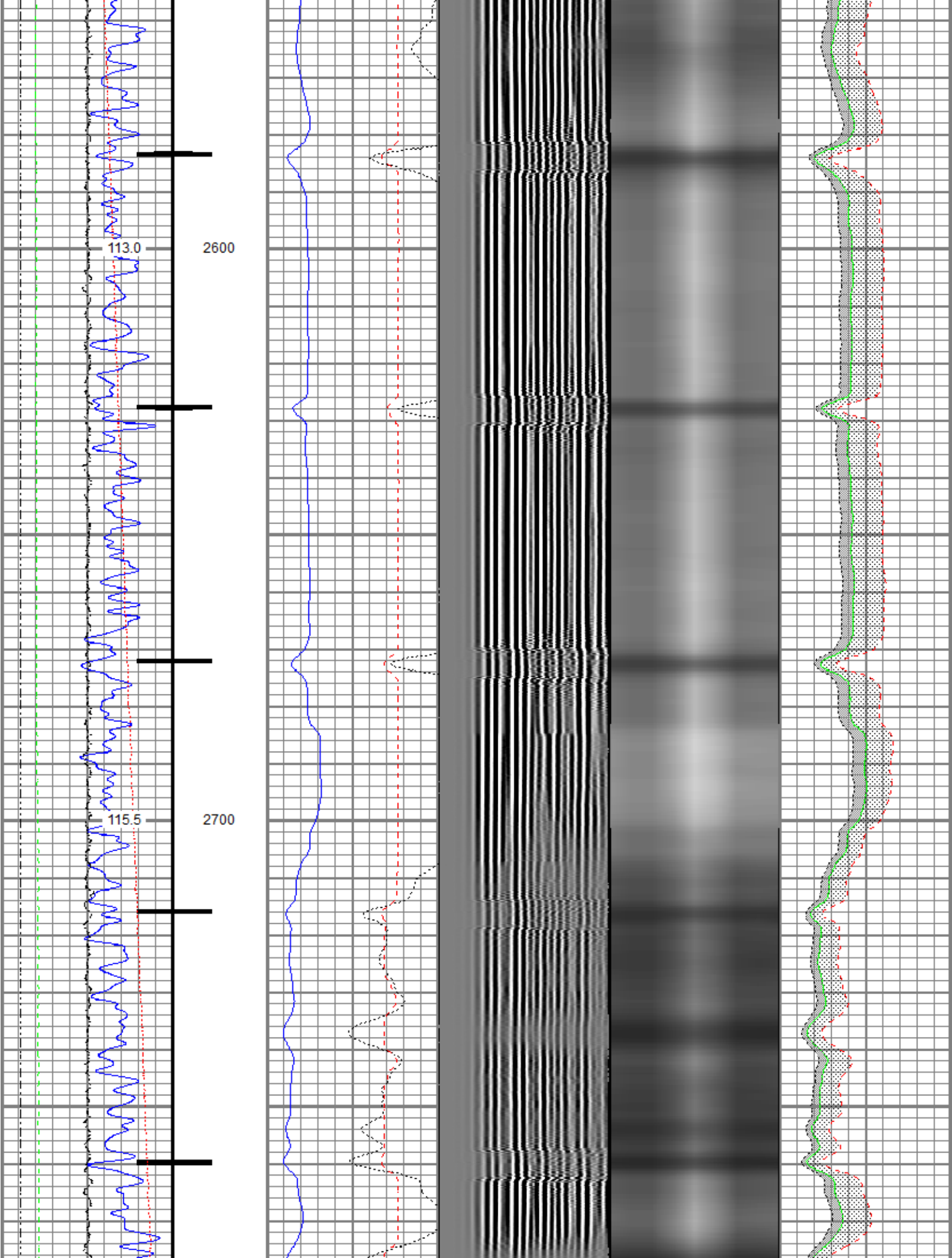


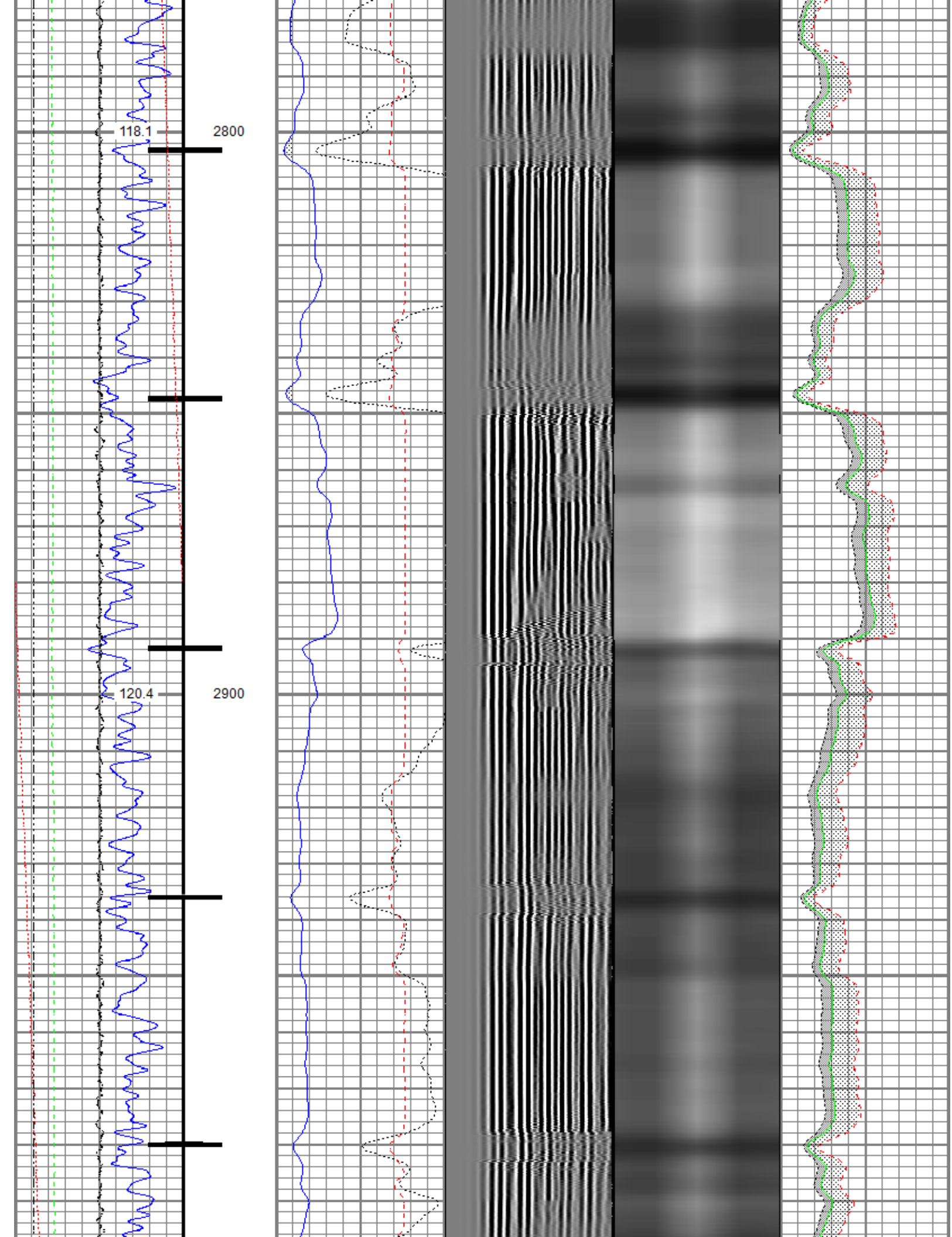


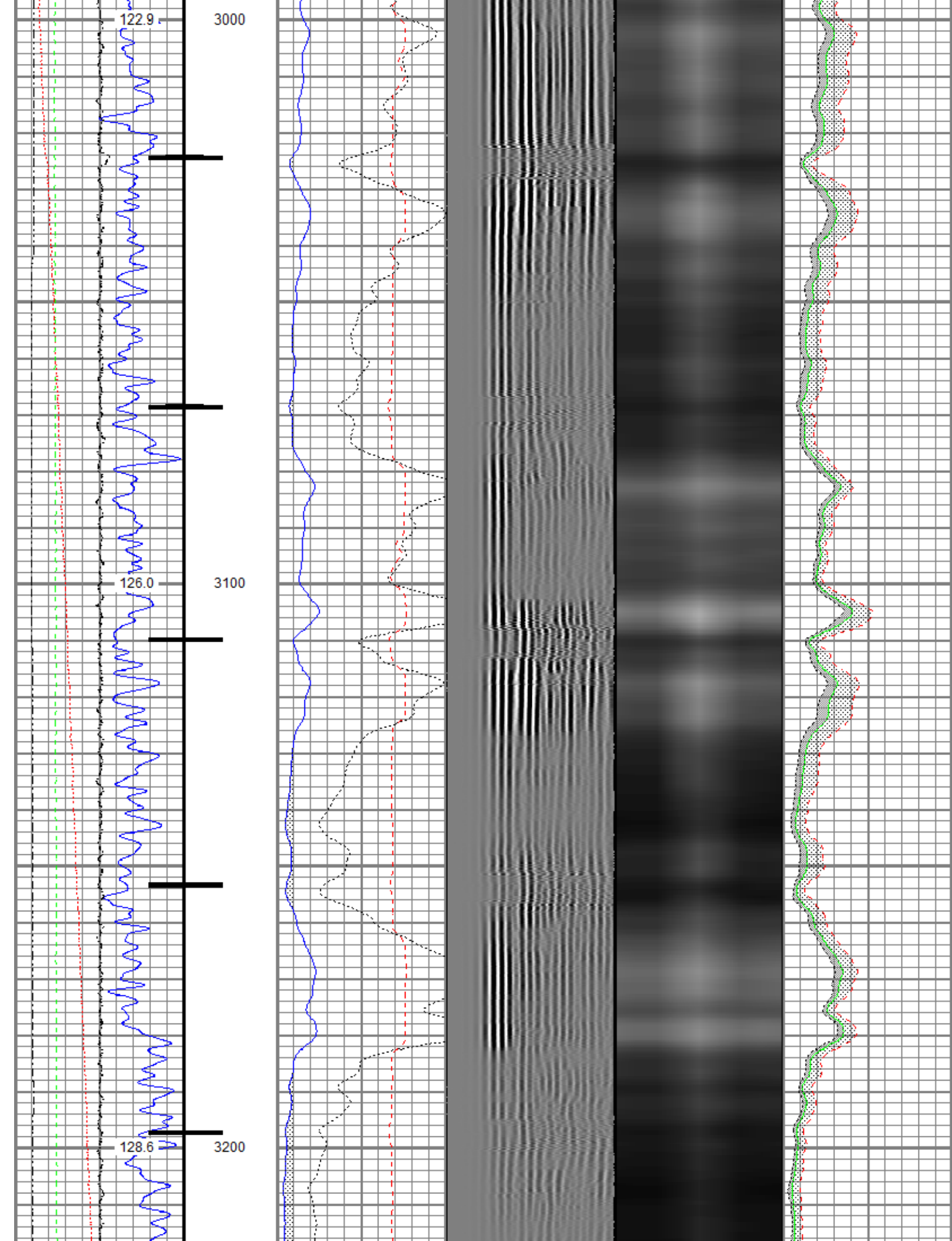


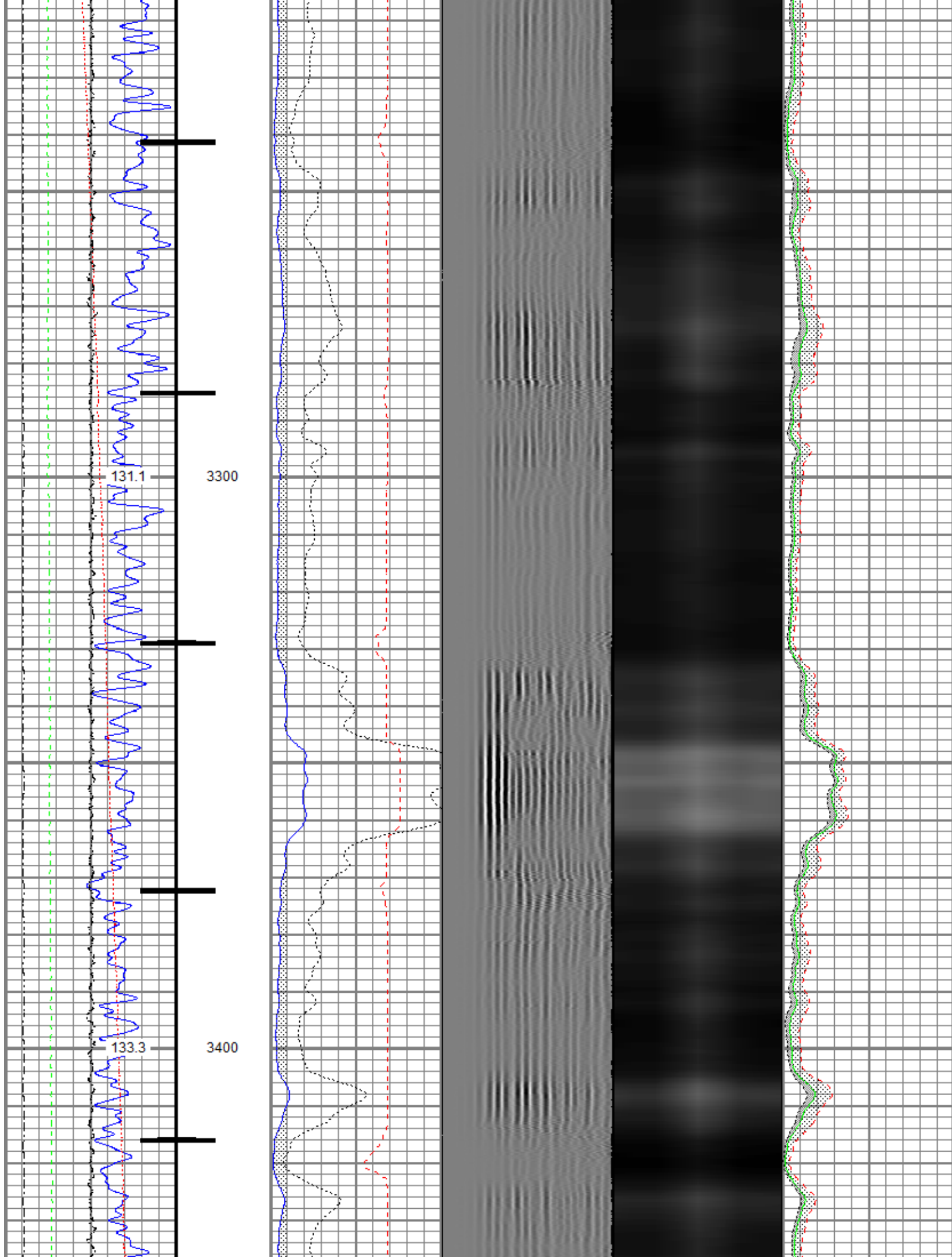


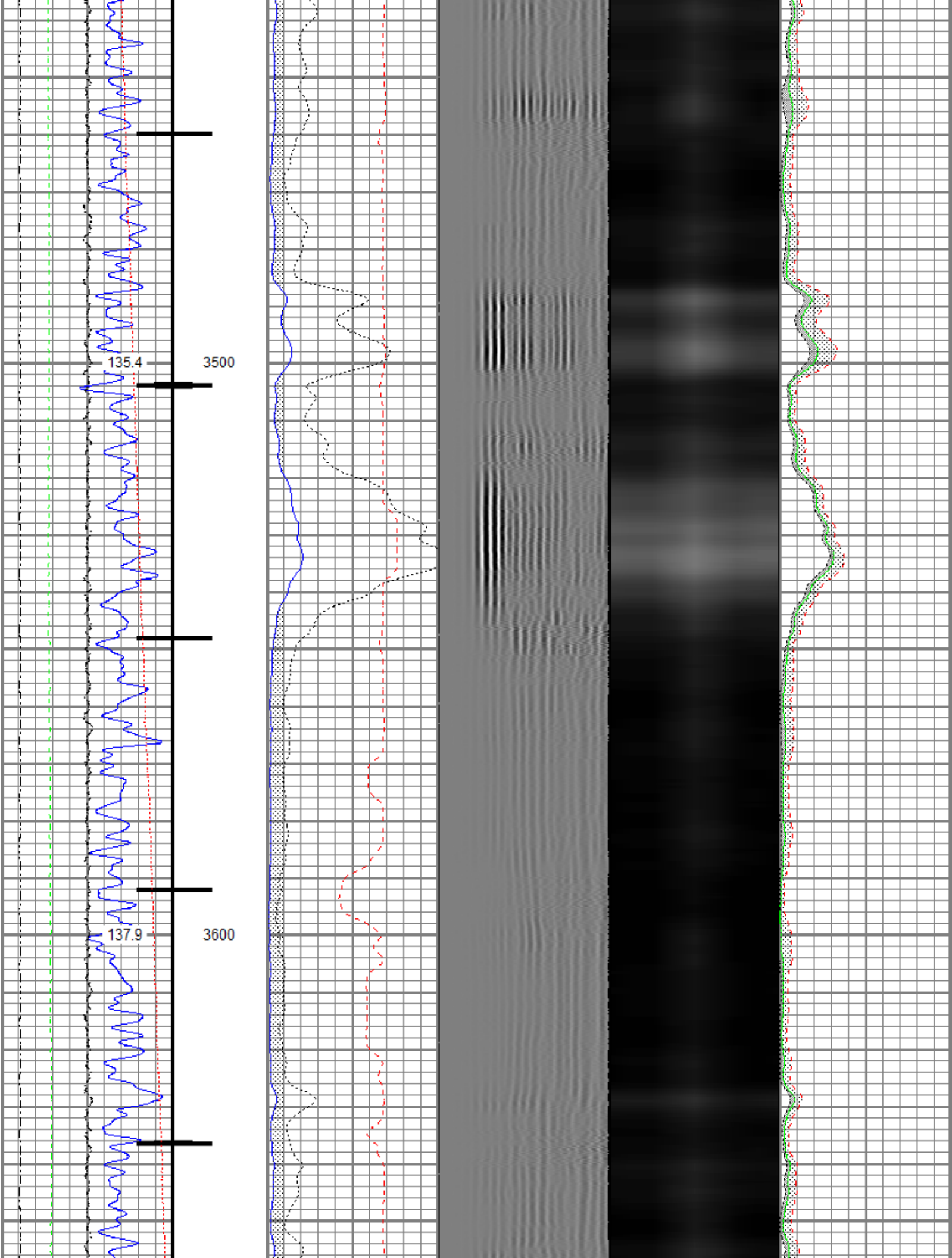


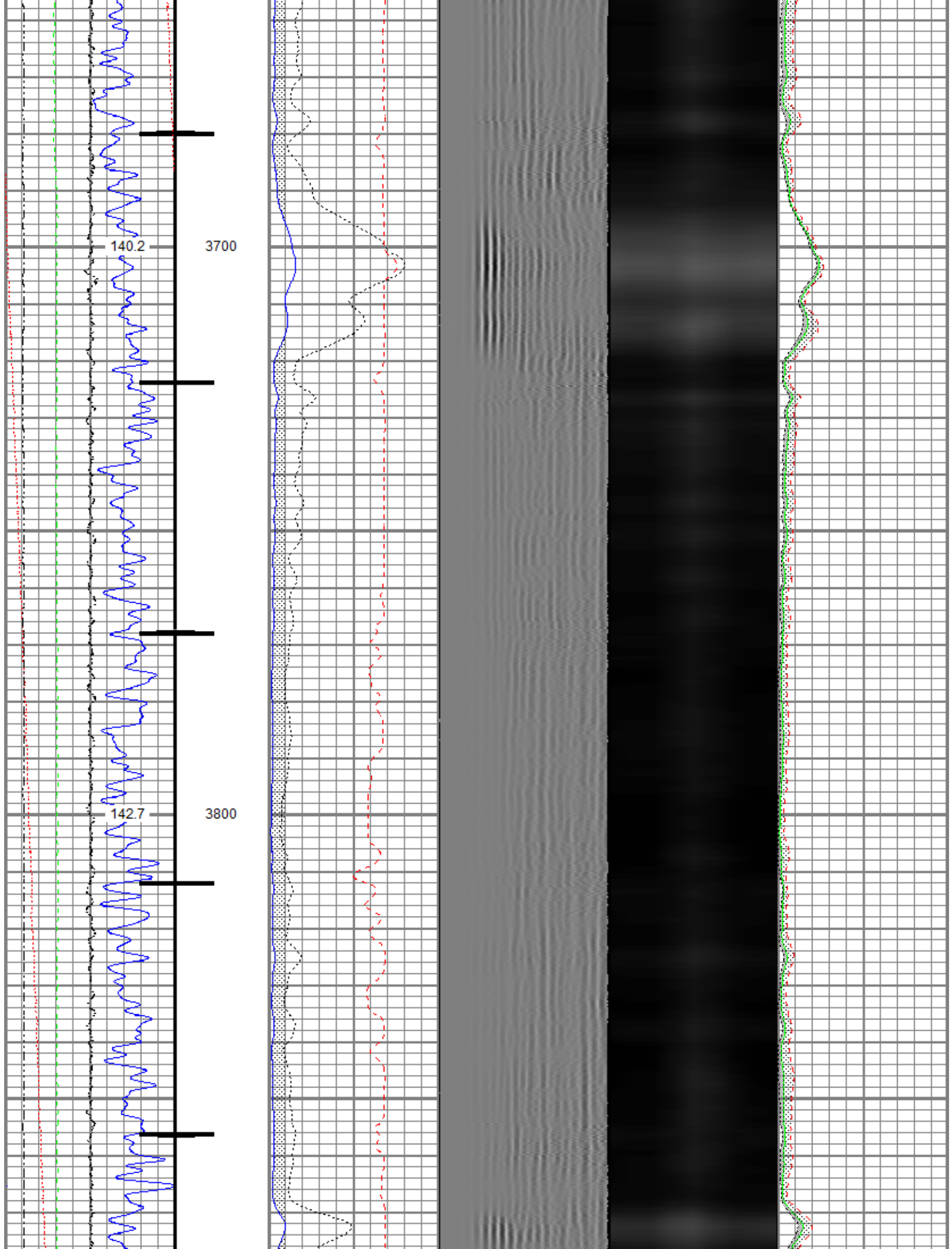


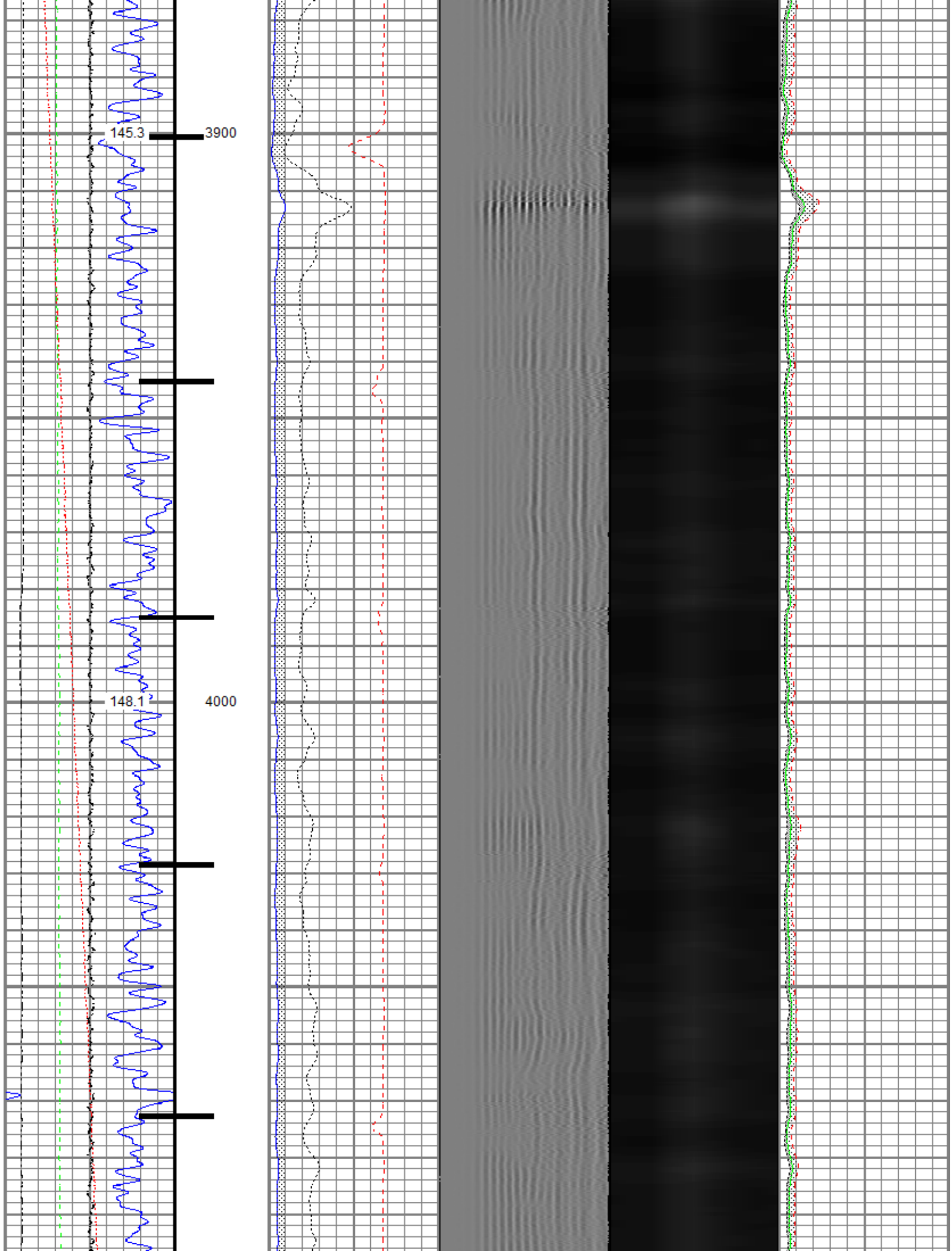


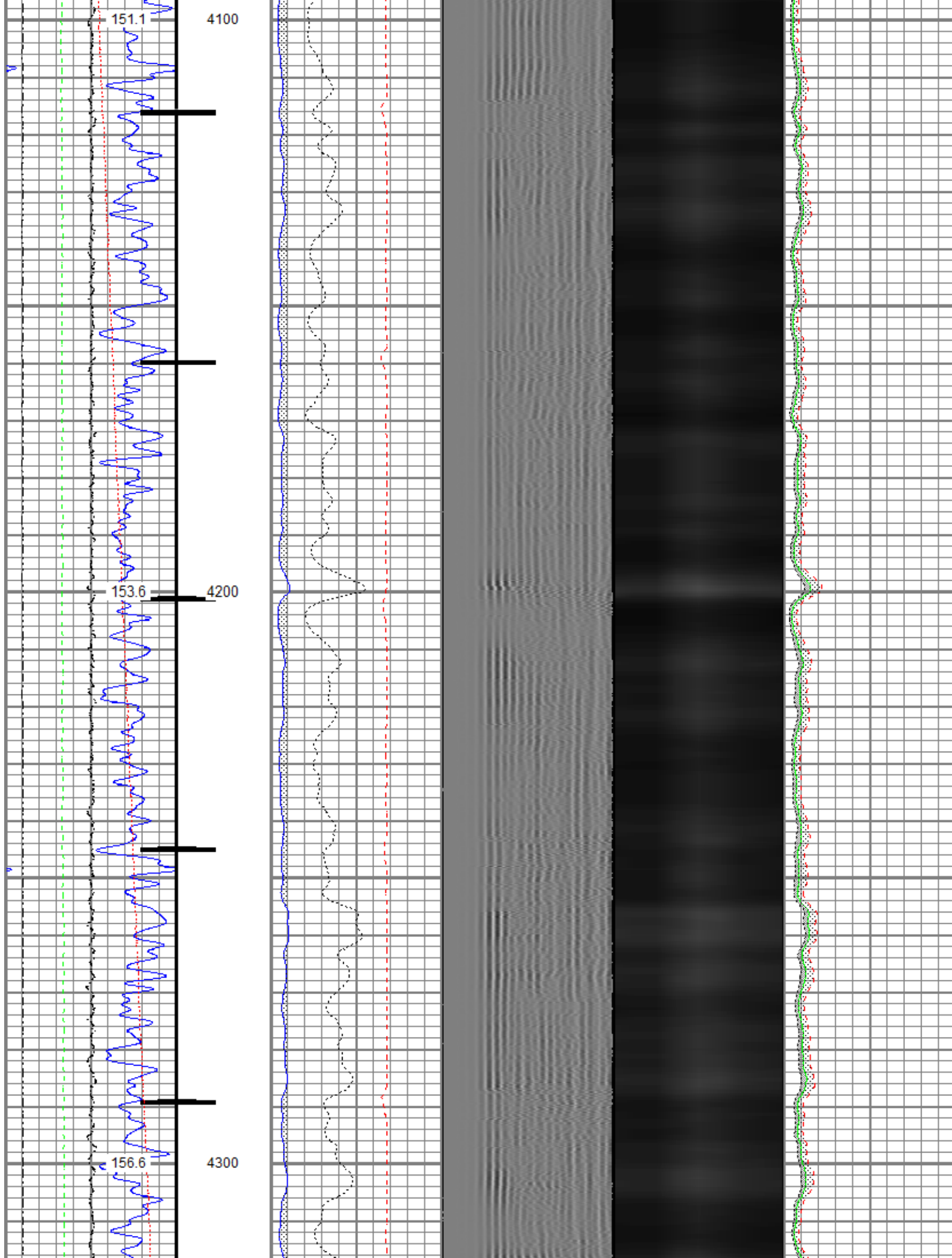


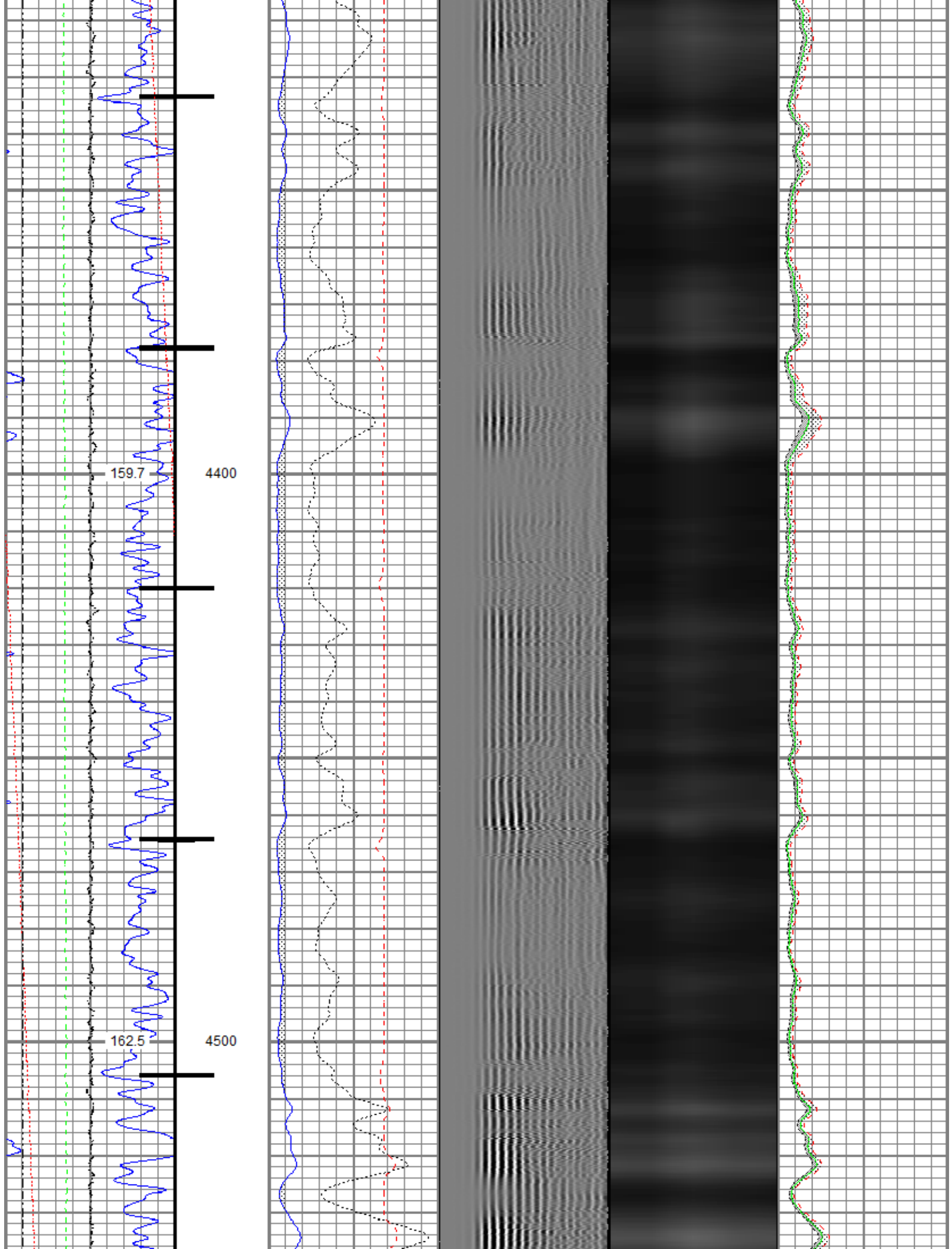


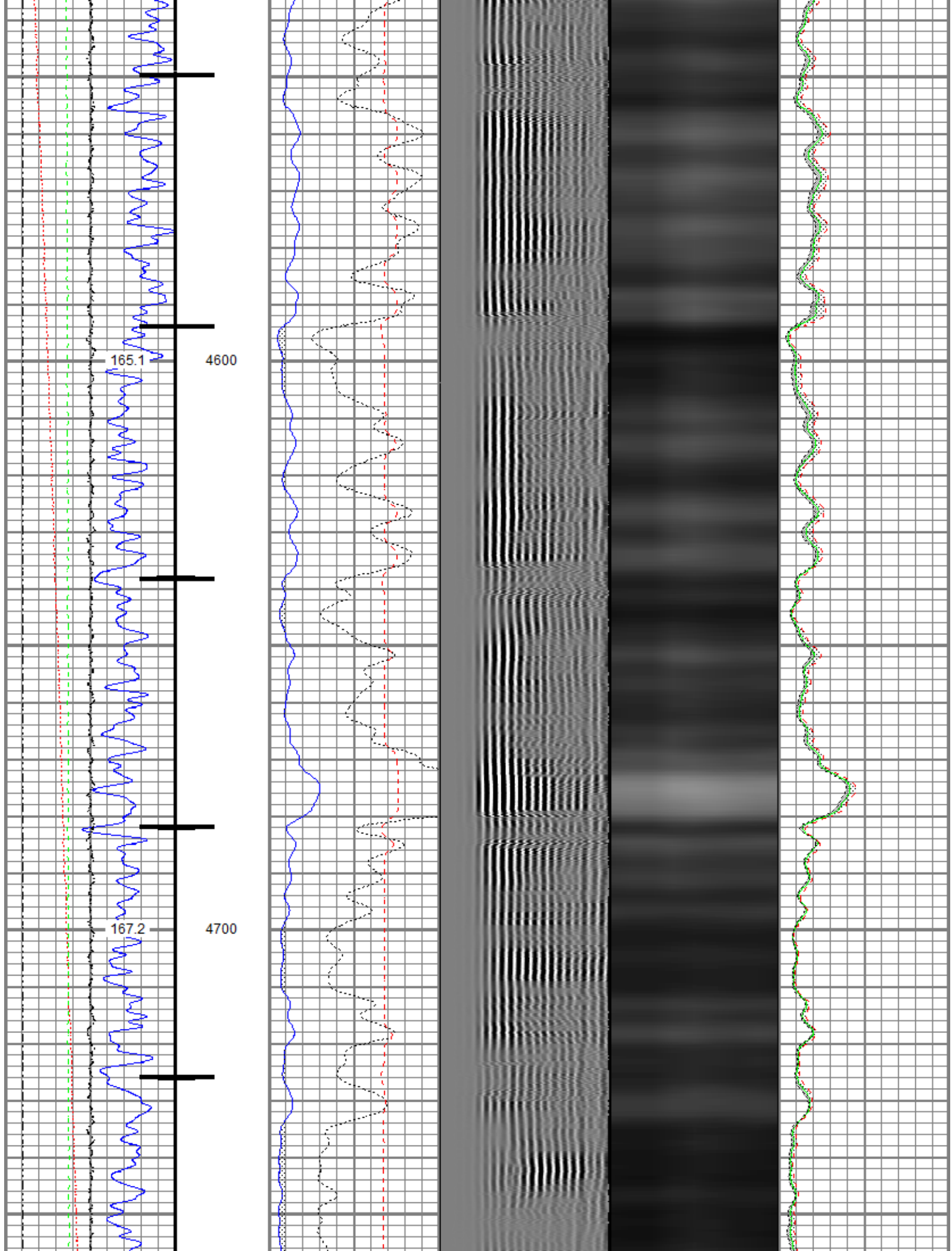


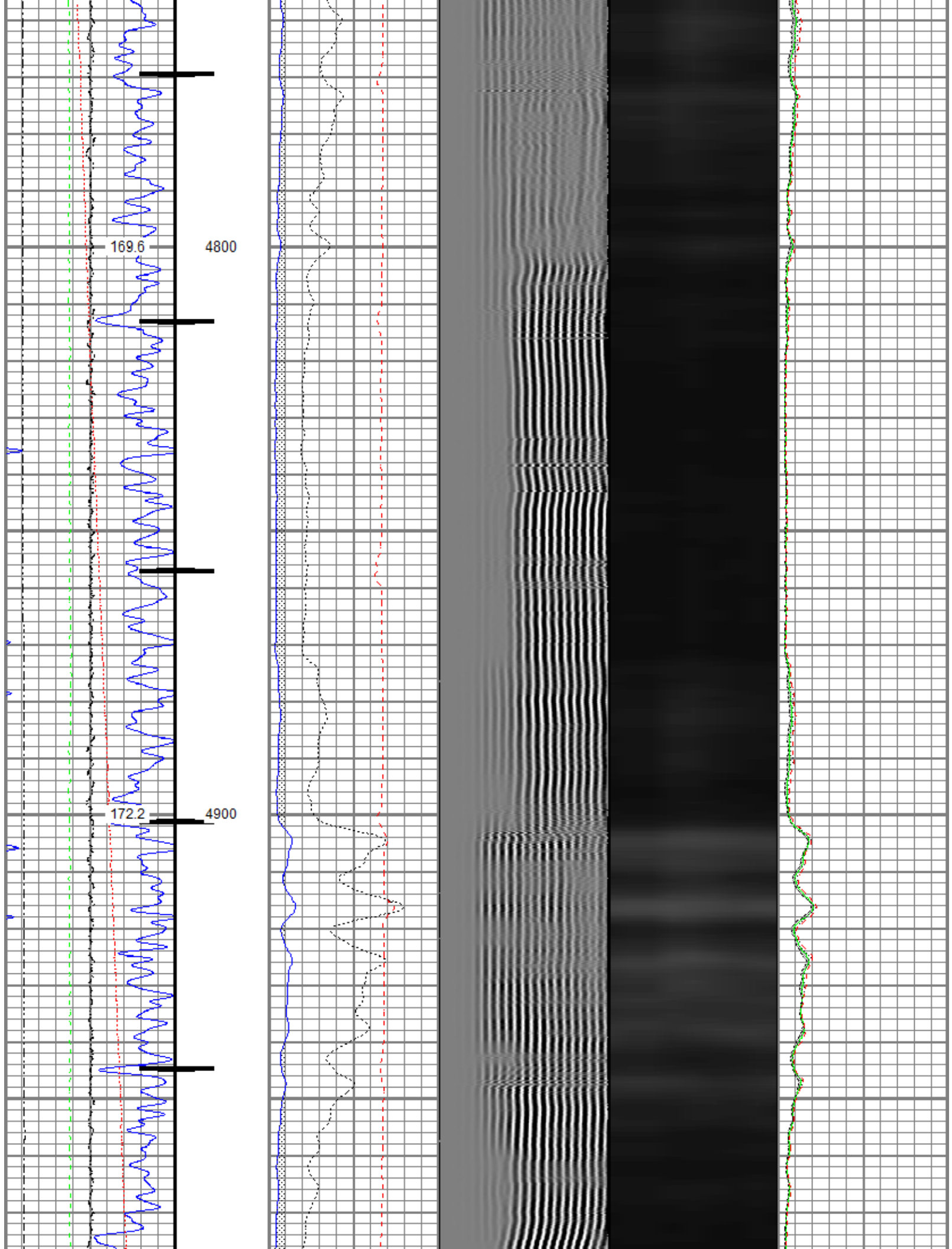


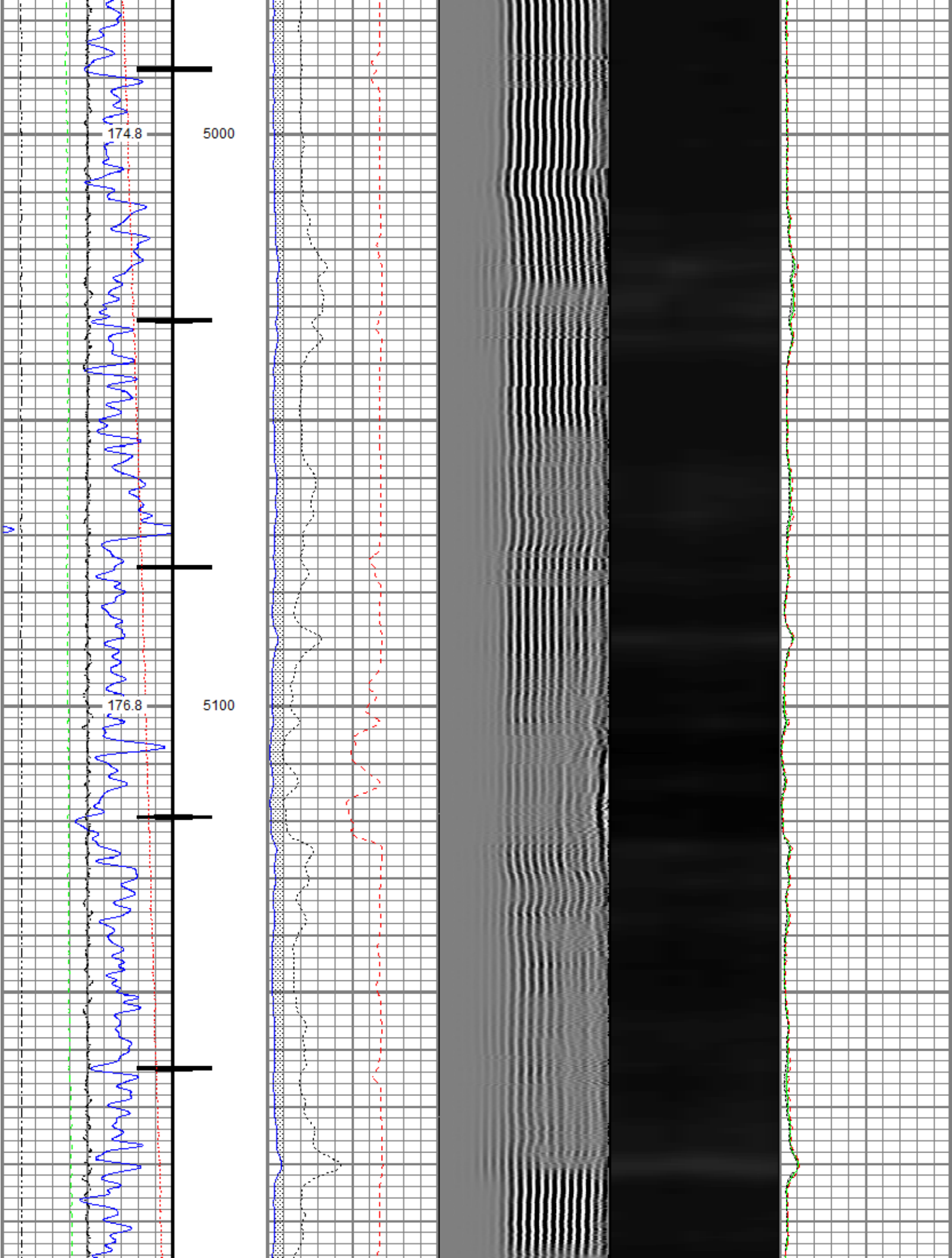


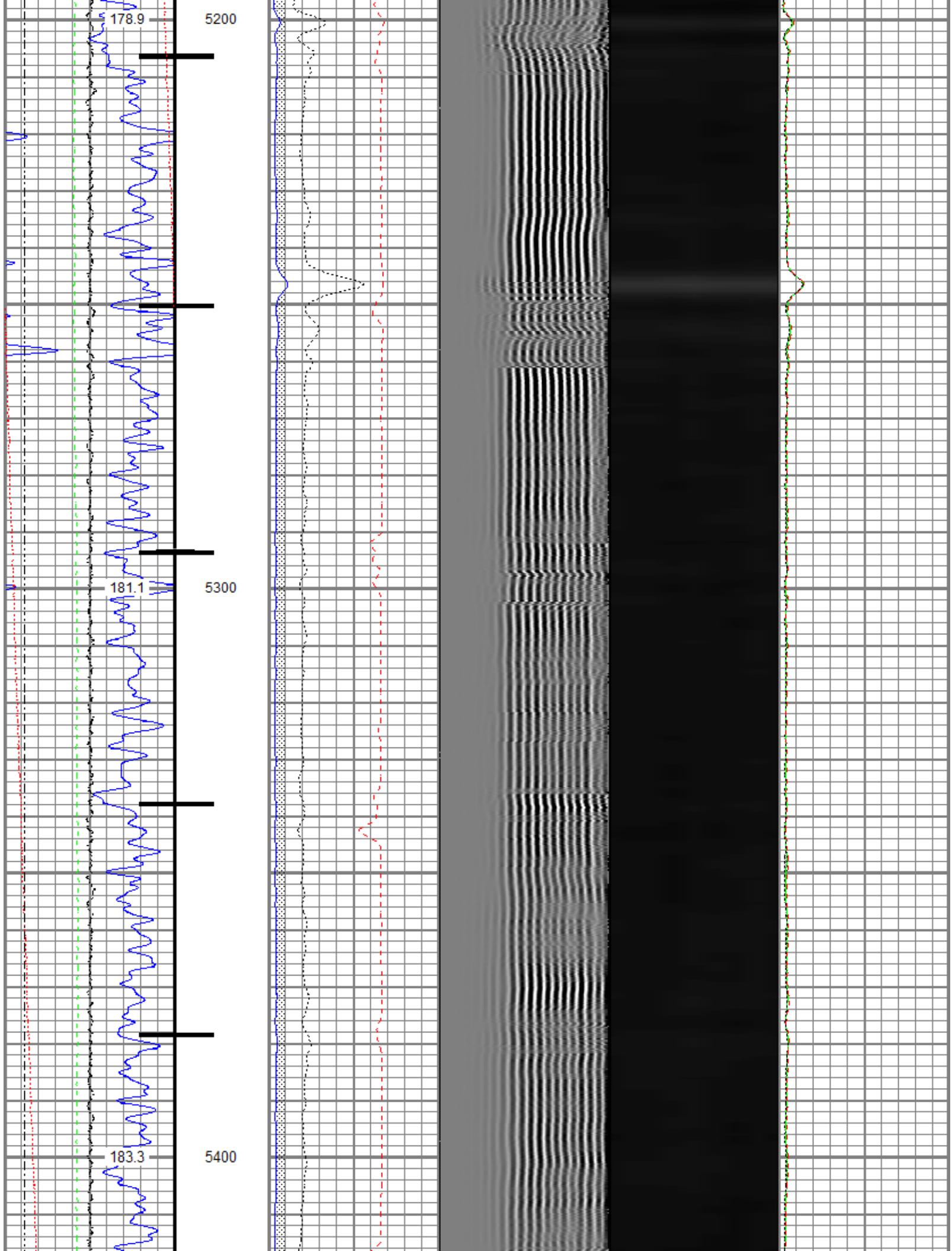


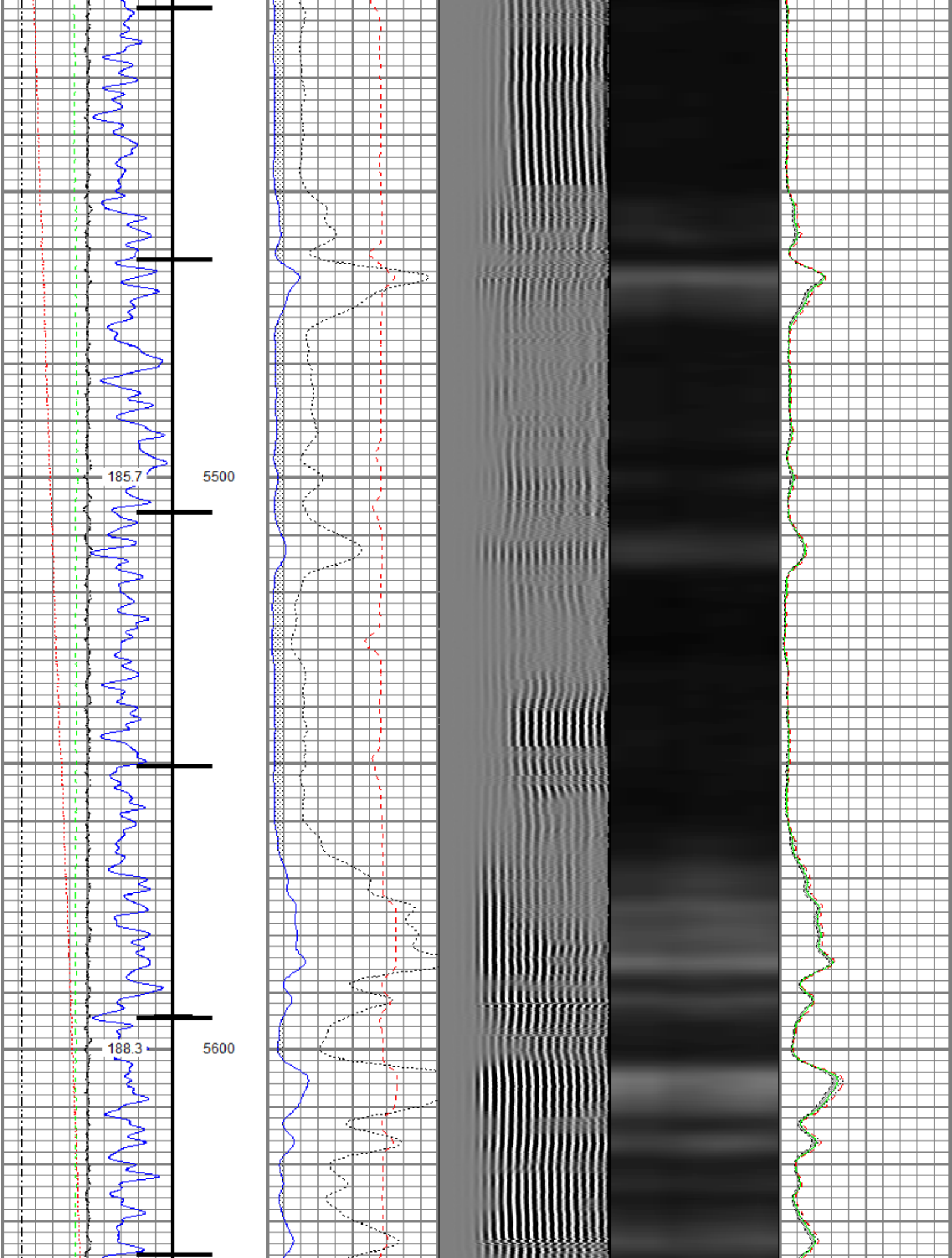


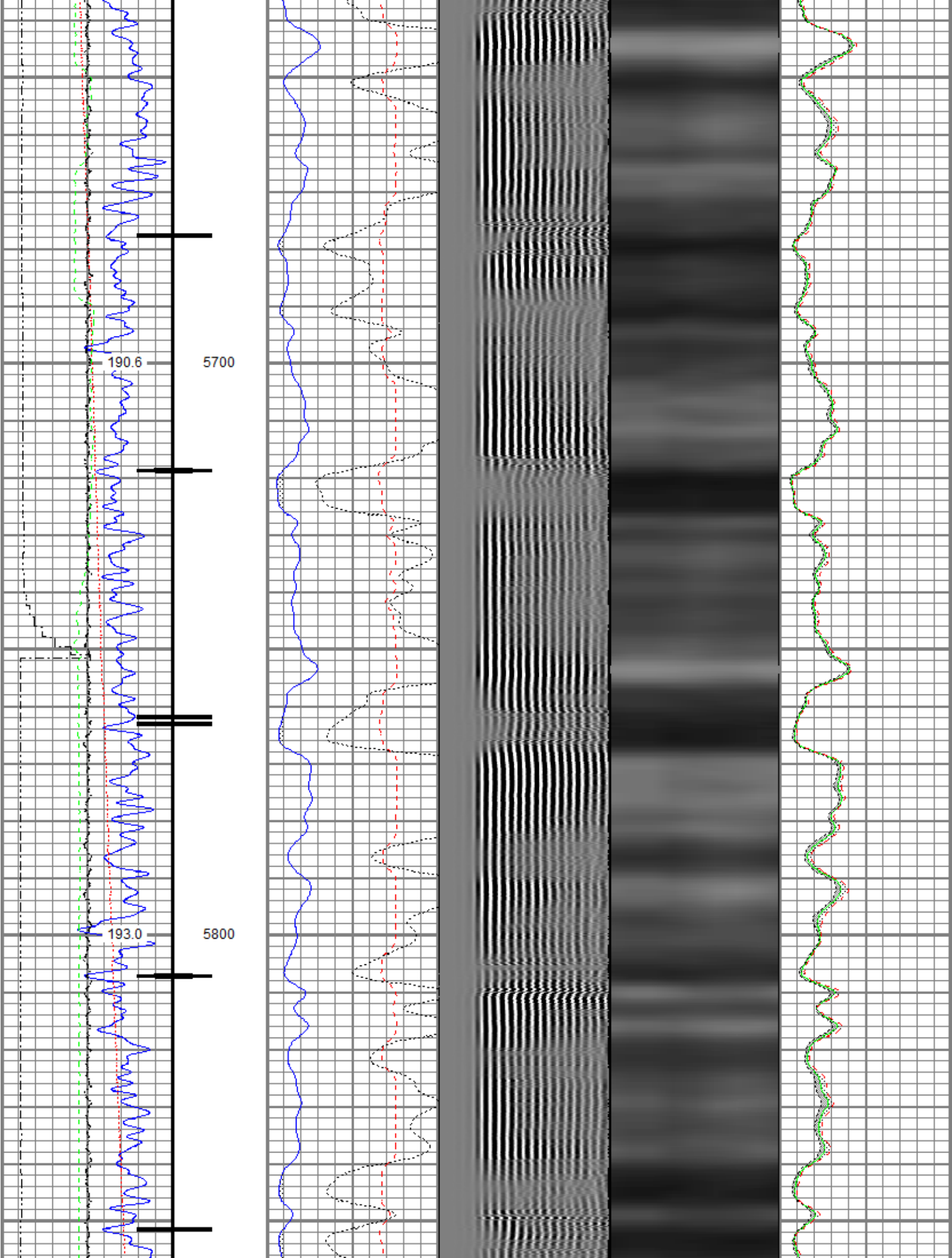


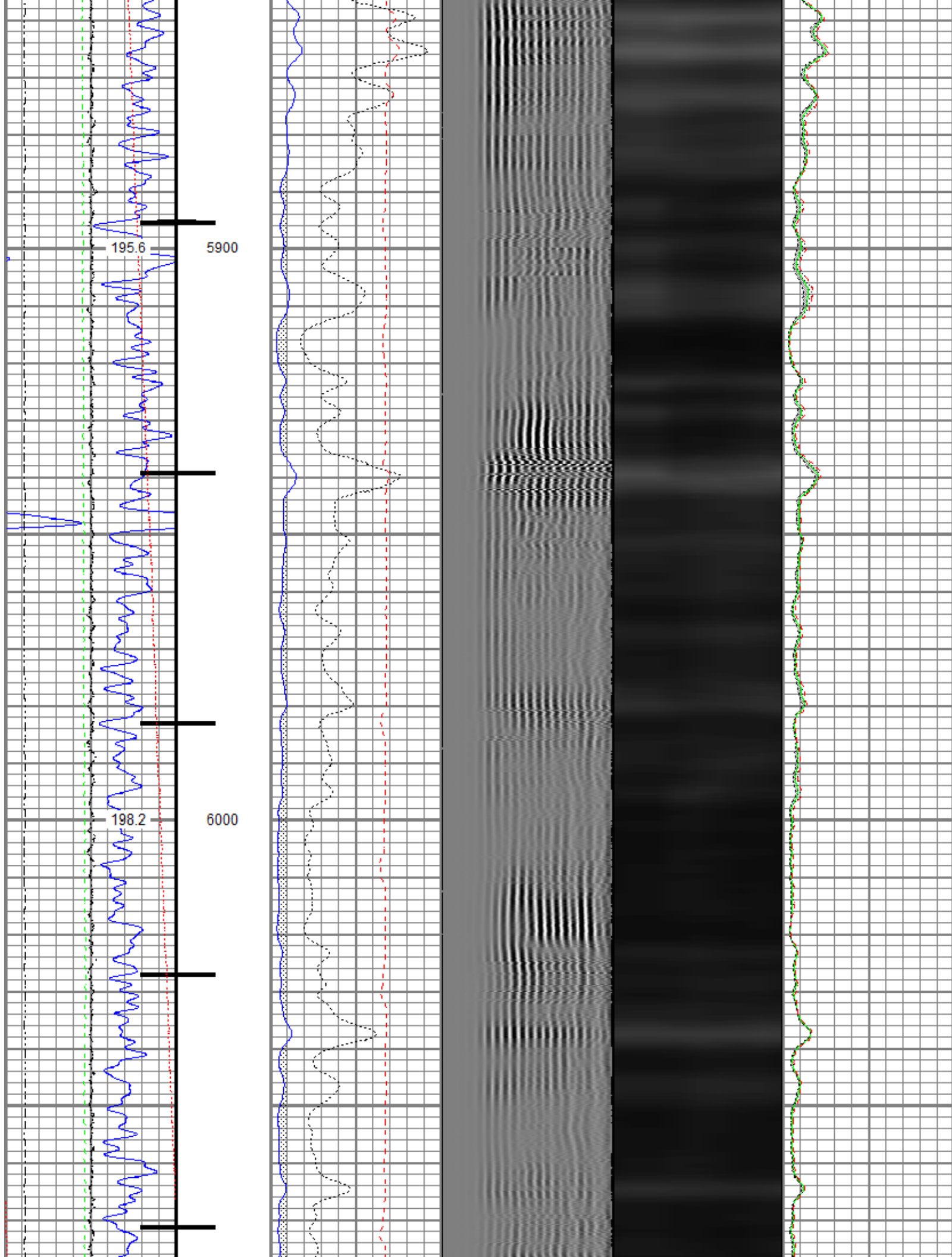


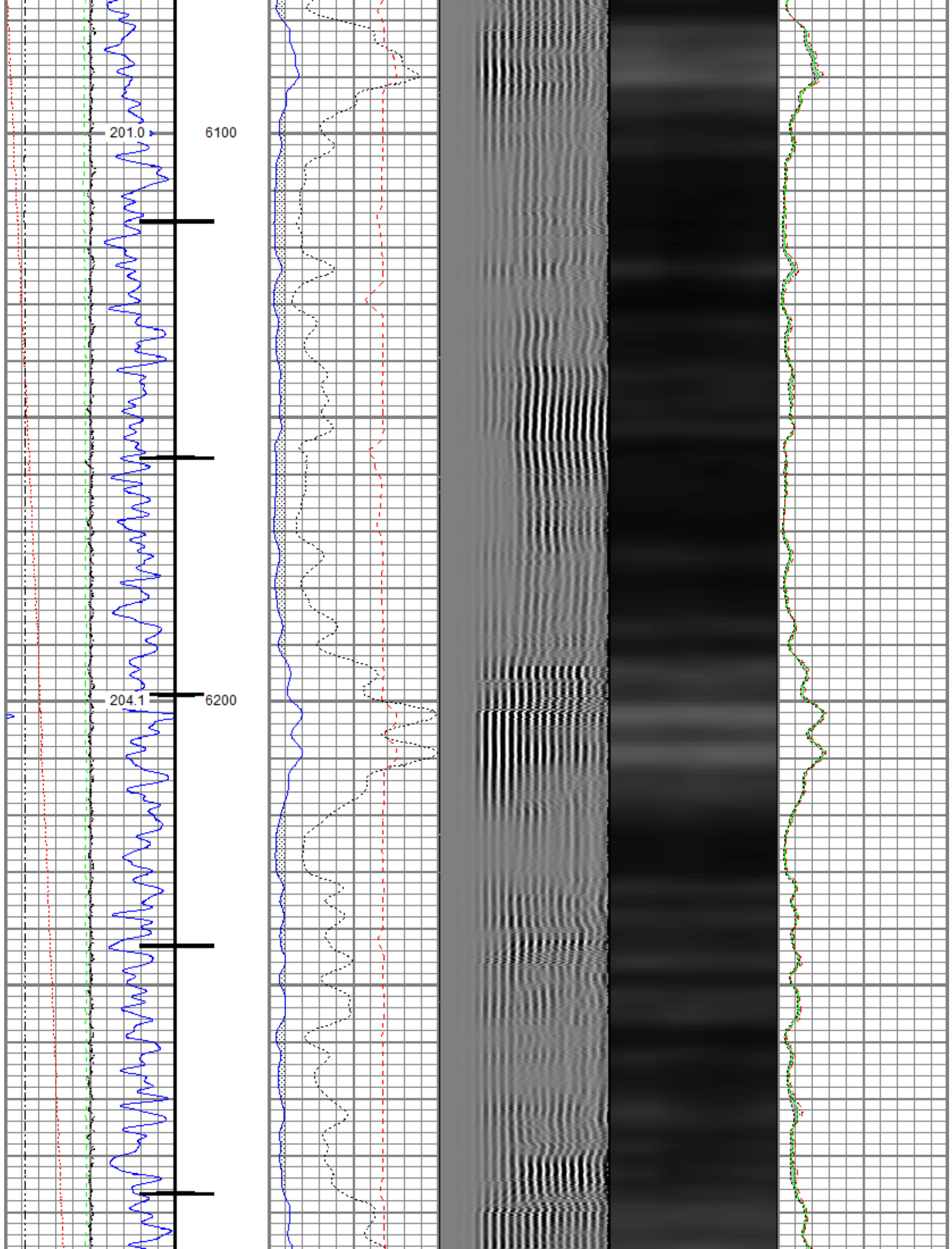


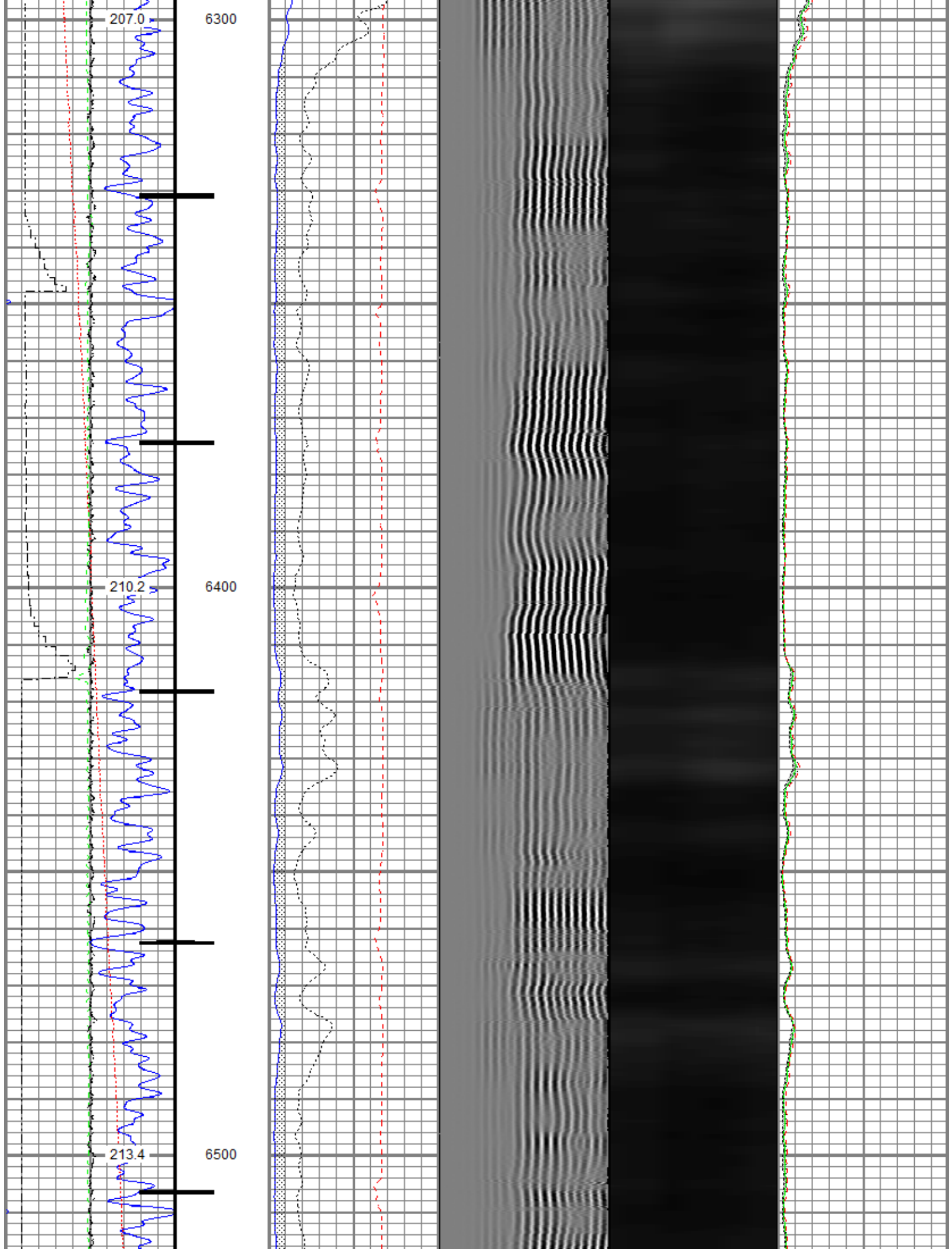


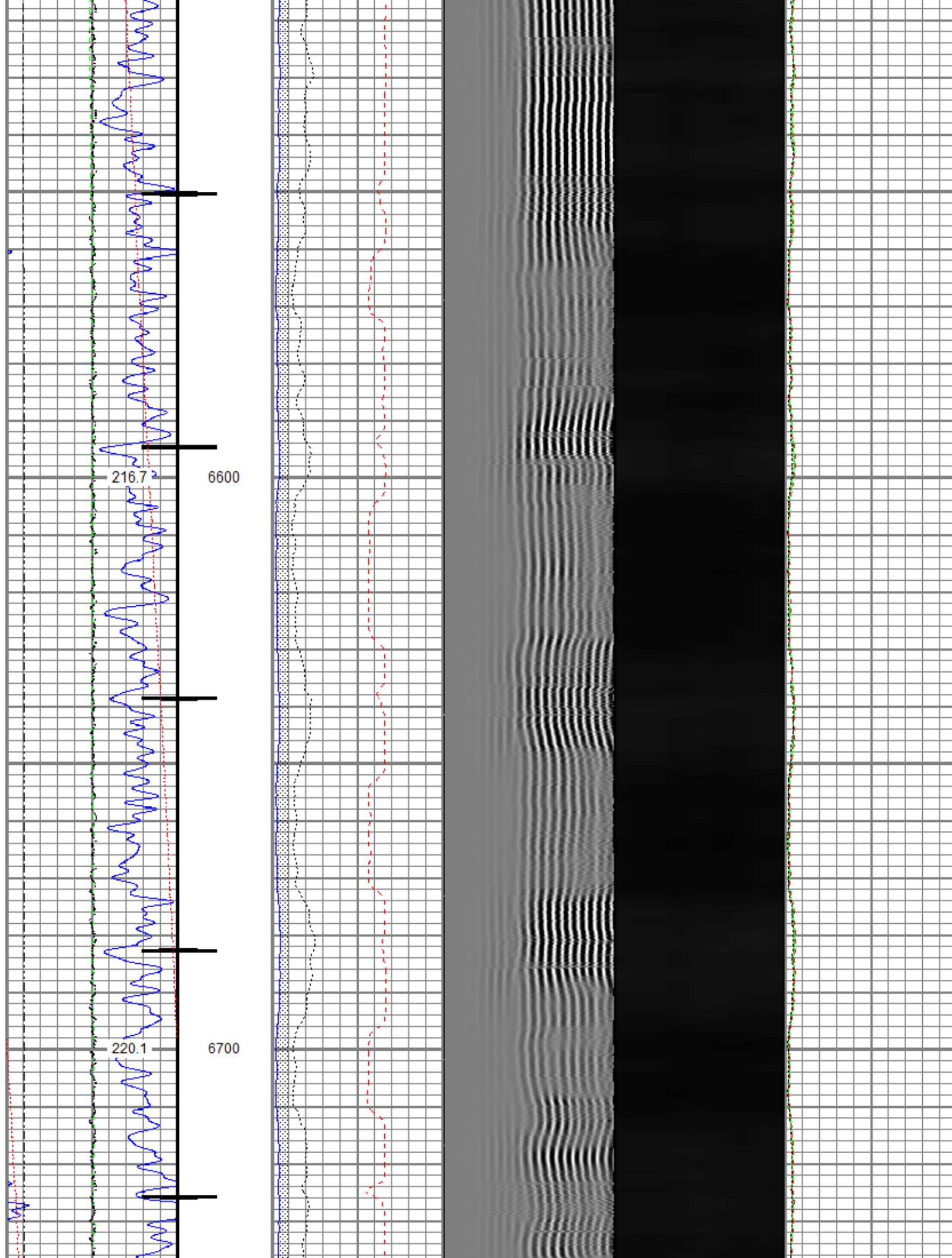


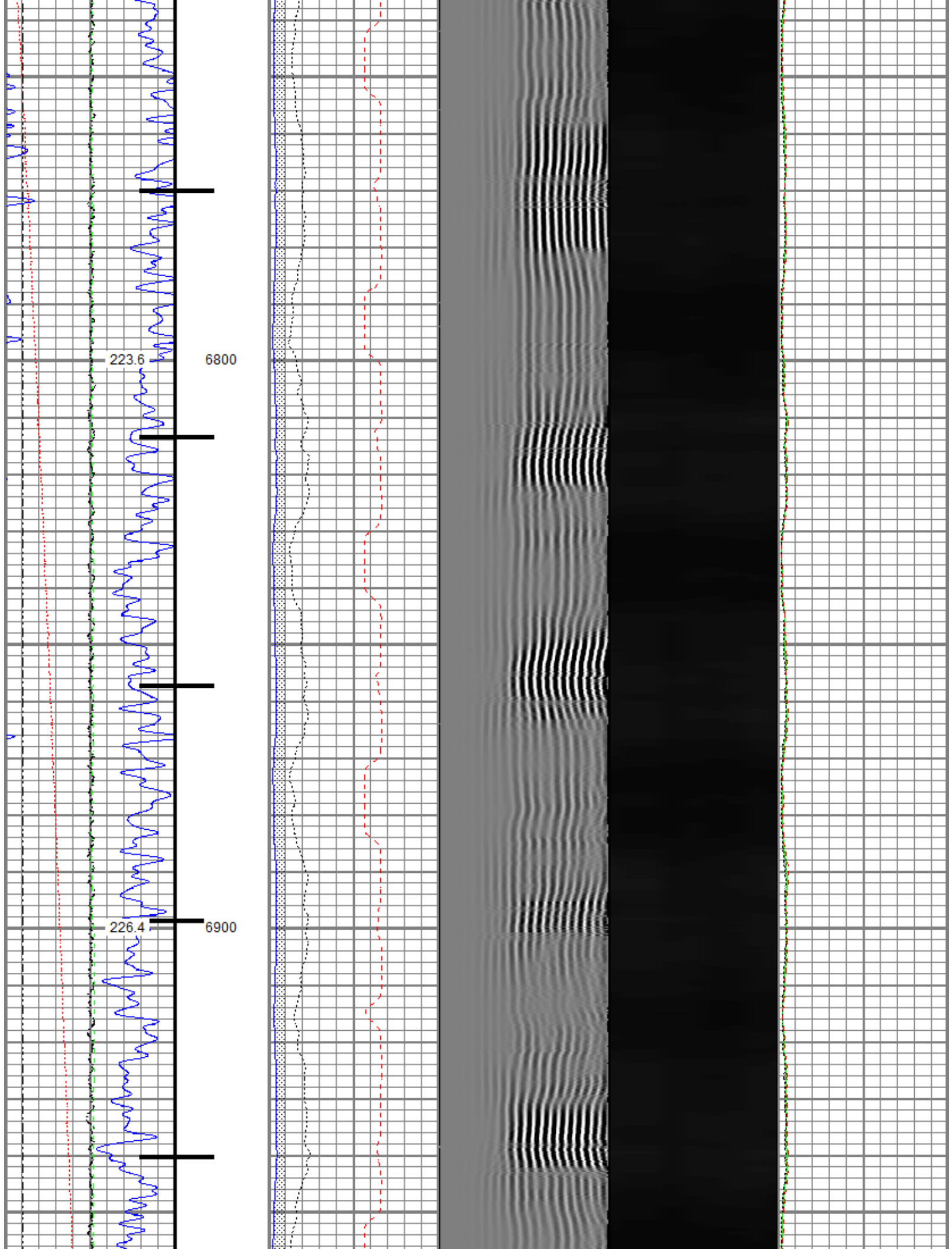


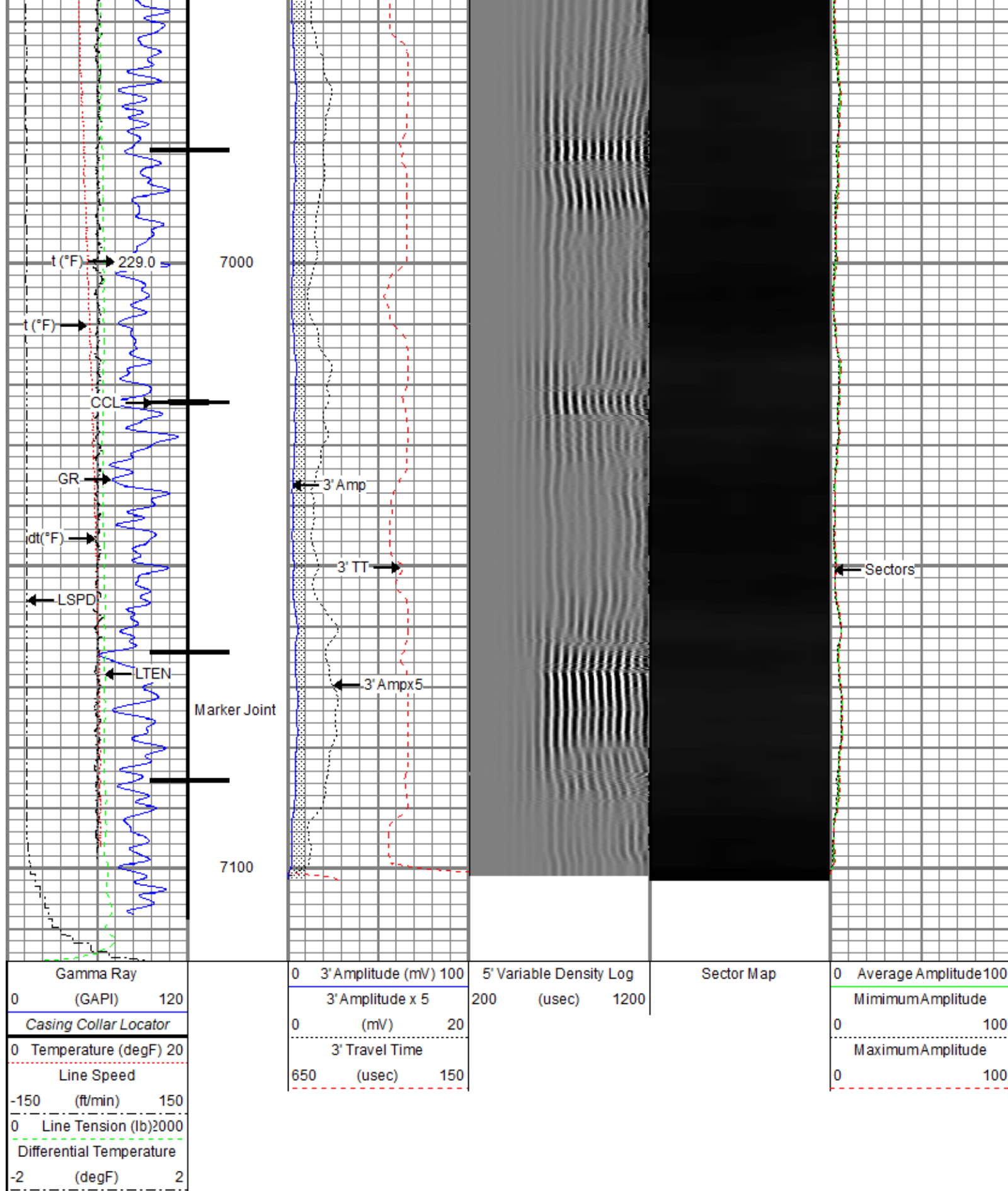






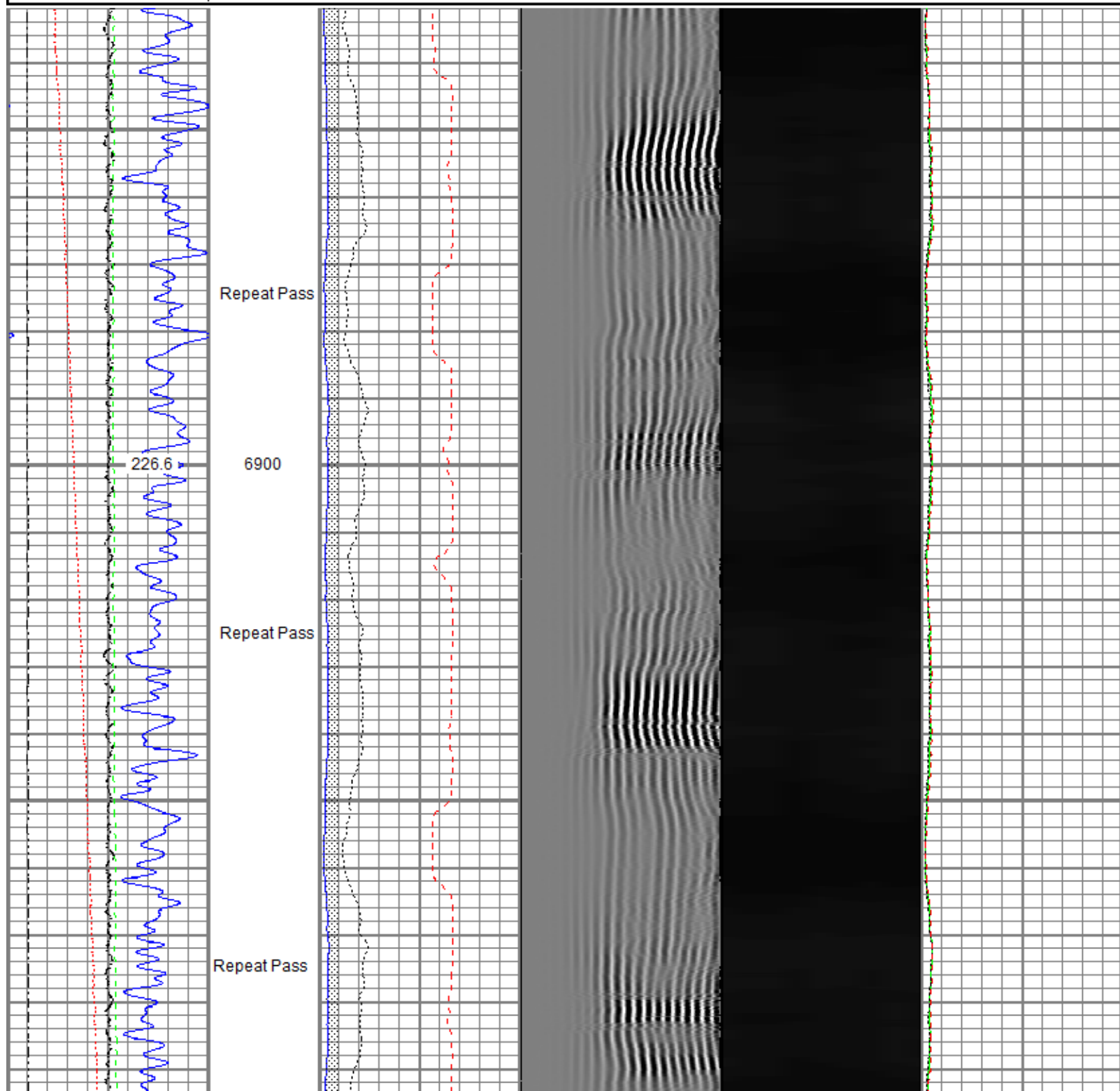


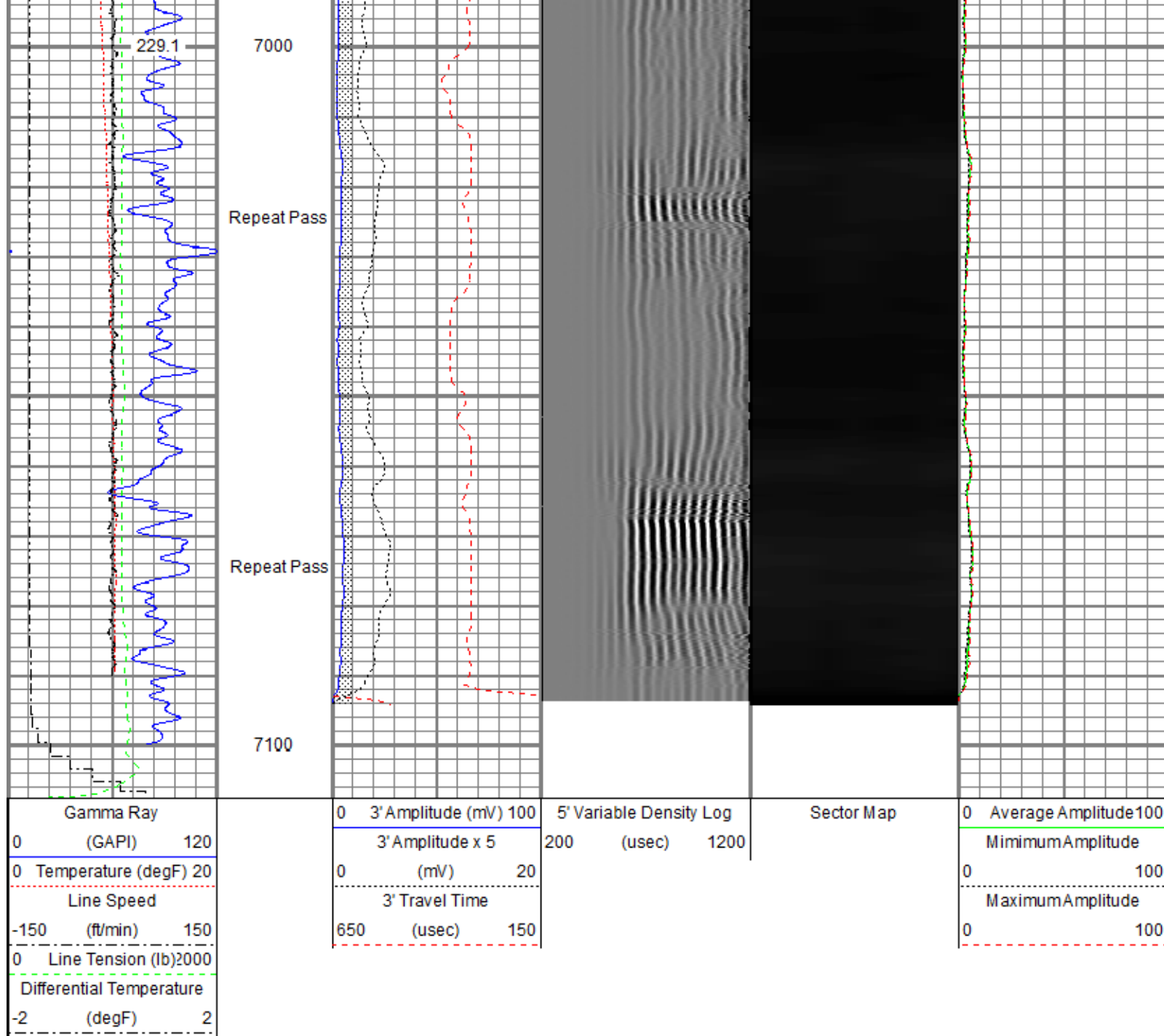


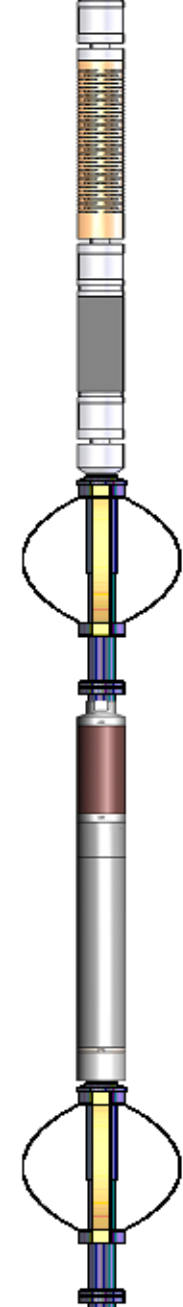
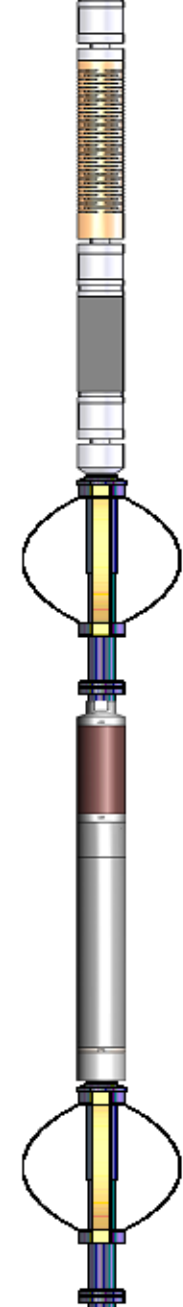
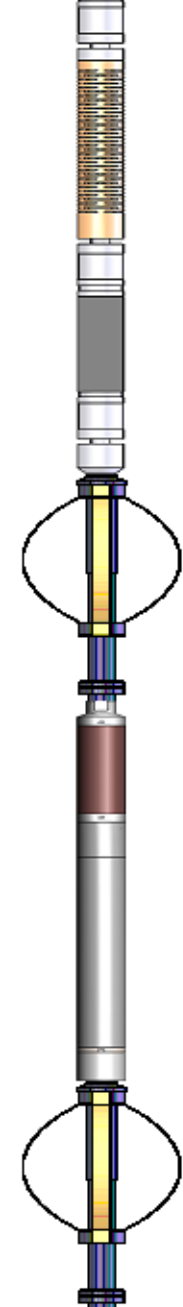


Database File	anadarko\0512349220_anadarko_jbd 15-1hz_rbl_07-31-19\processed_revised_0512349220_anadarko_jbd 15-1hz_rbl_07-31-19
Dataset Pathname	2800rbl/pass2.4
Presentation Format	ros_radri
Dataset Creation	Fri Aug 02 13:05:53 2019
Charted by	Depth in Feet scaled 1:240

Gamma Ray		0 3' Amplitude (mV) 100		5' Variable Density Log		Sector Map		0 Average Amplitude 100	
(GAPI) 120		3' Amplitude x 5		200 (usec) 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									





WVFS3	14.81		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					
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 6PB (101001) 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: processed_revised_0512349220_anadarko_jbd 15-1hz_rbl_07-31-19.db: field/well/2800rbl/pass4.5 Total length: 23.86 ft Total weight: 223.60 lb O.D.: 2.75 in						

Calibration Report		
Database File	c:\programdata\warrior\data\anadarko\0512349220_anadarko_jbd 15-1hz_rbl_07-31-19\processed_revised_0512349220_anad	
Dataset Pathname	2800rbl/pass4.5	
Dataset Creation	Fri Aug 02 12:52:09 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: FW1308-091
Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
Calibration Depth: -14.971 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.592	0.800	71.921	121.727	-0.146
CAL	0.006	0.617				
5'	0.008	0.518	0.800	71.921	139.350	-0.259
SUM						
S1	0.006	0.557	0.000	100.000	181.600	-1.172
S2	0.008	0.582	0.000	100.000	174.200	-1.358
S3	0.008	0.582	0.000	100.000	174.200	-1.358
S4	0.009	0.635	0.000	100.000	159.707	-1.448
S5	0.010	0.625	0.000	100.000	162.520	-1.615
S6	0.009	0.611	0.000	100.000	166.249	-1.532
S7	0.008	0.586	0.000	100.000	173.148	-1.462
S8	0.008	0.568	0.000	100.000	178.364	-1.369

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.617	1.000	0.000

Air Zero Calibration, performed Wed Jul 31 06:28:17 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: FW1308-091
Tool Model: 2750 RBT
Performed: Mon Oct 01 11:32:16 2018

	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	



Well

JDB 15-1HZ

Field

Wattenberg

County

Weld

State

Colorado