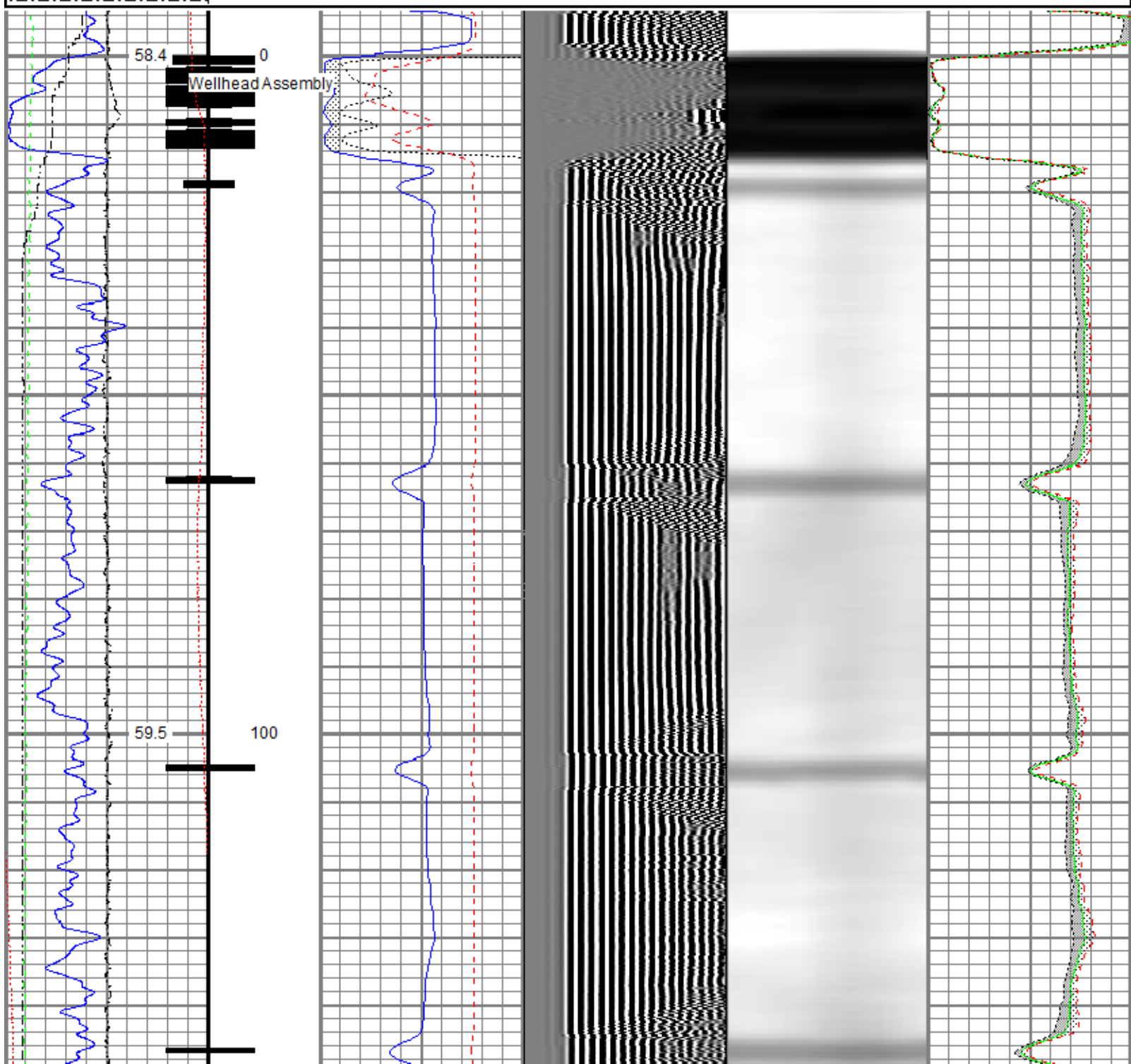


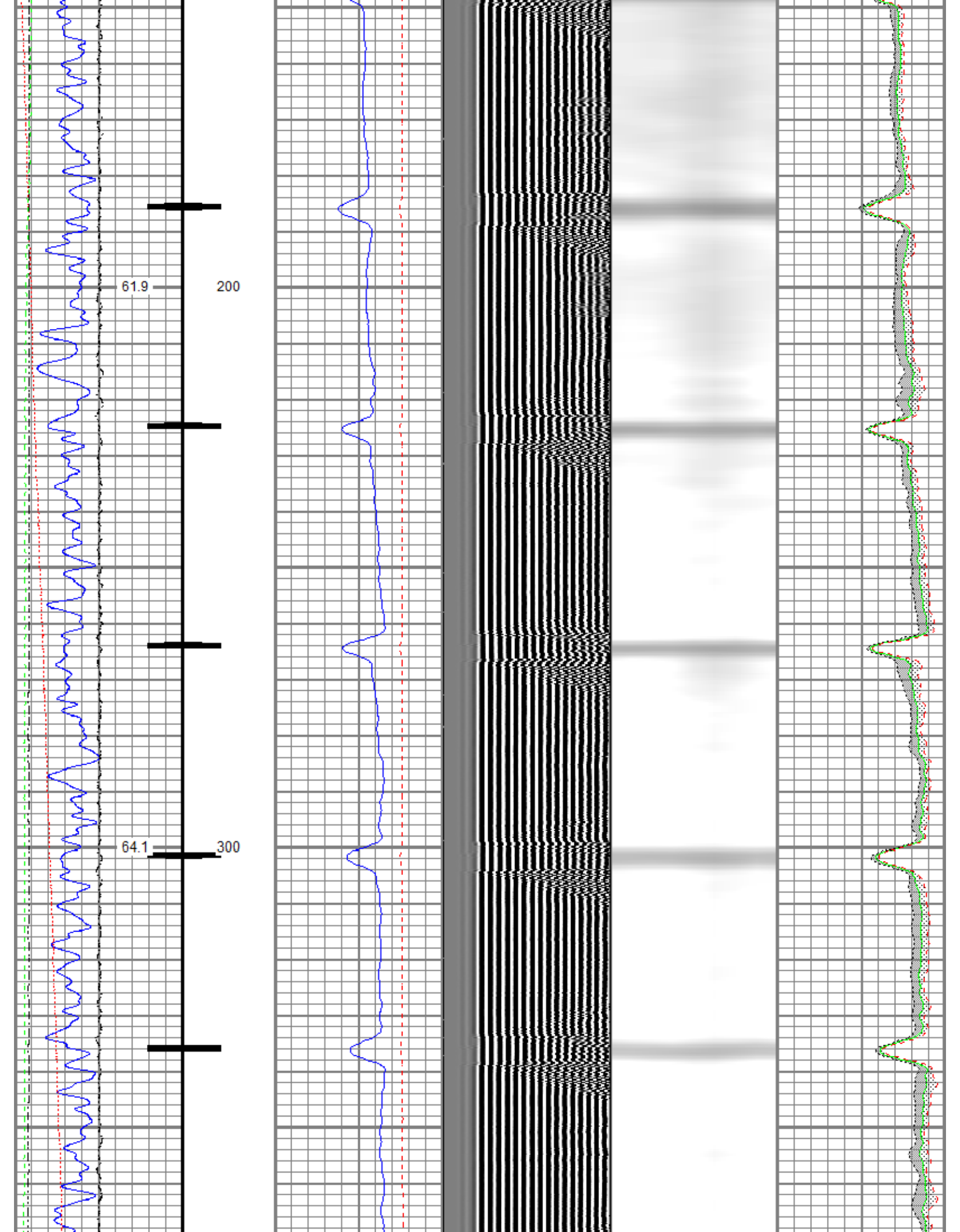


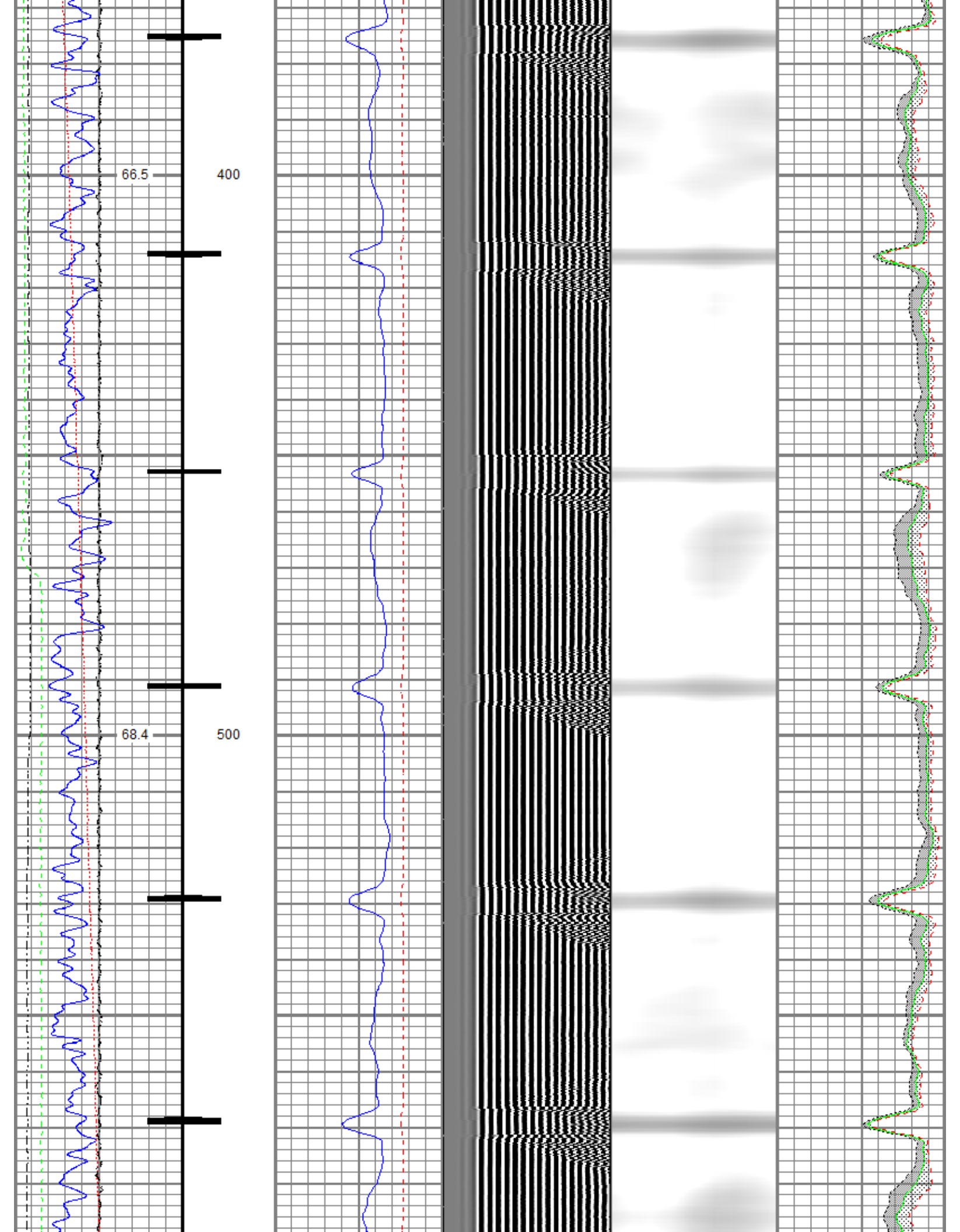
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Top at 6801 FT Adjusted -5 FT to correlate with Marker Joint Top Gauge Ring/Junk Basket ran to 7568 FT with no debris 5.50" RBP Set at 6901 FT Recorded 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!!

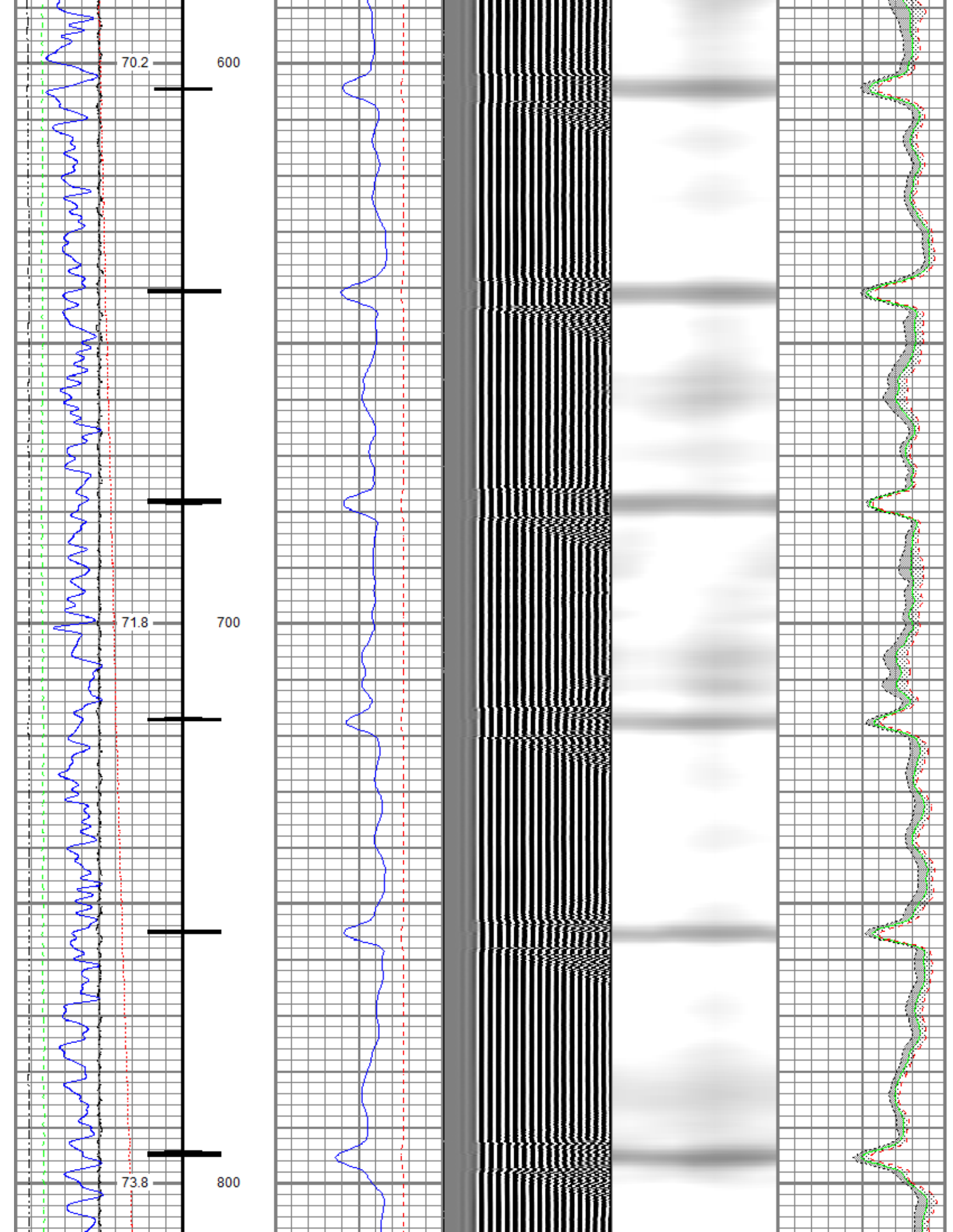
Database File anadarko_castle pines 19-12hz\0512347715_anadarko_castle pines 19-12hz_rbl_03-17-19_2800 psi.db
 Dataset Pathname Main.2
 Presentation Format ros_radrii
 Dataset Creation Mon Mar 18 13:00:04 2019
 Charted by Depth in Feet scaled 1:240

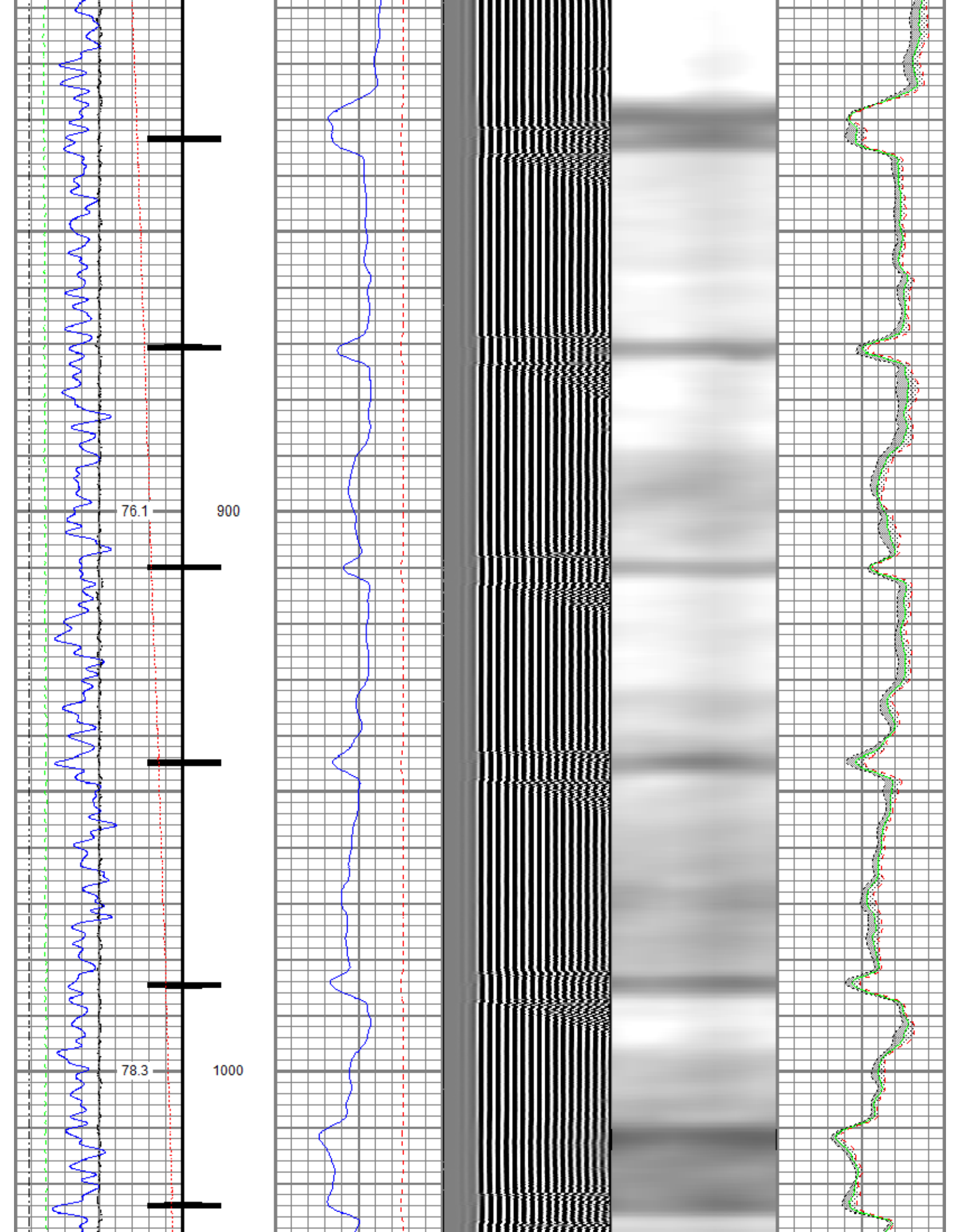
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min)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

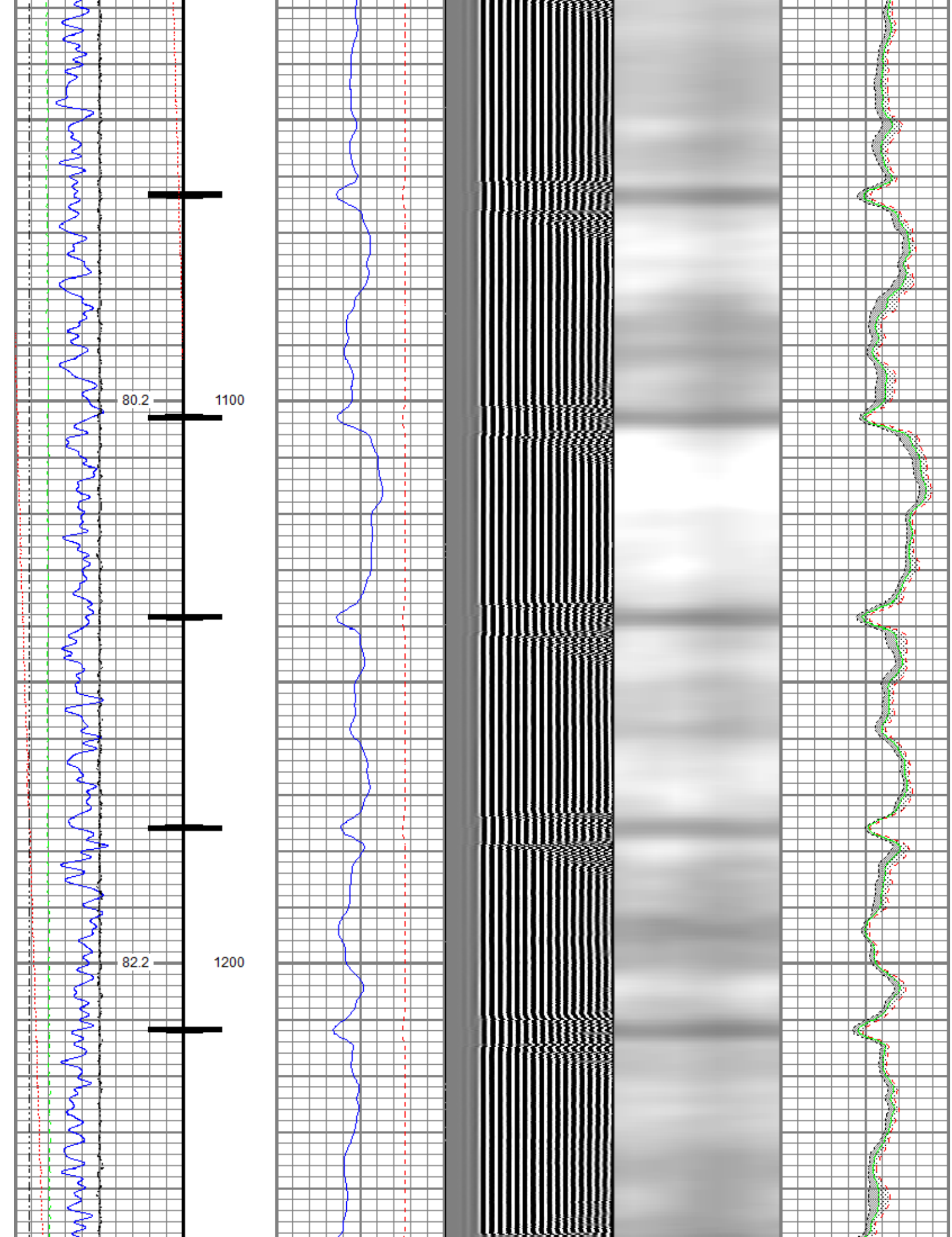


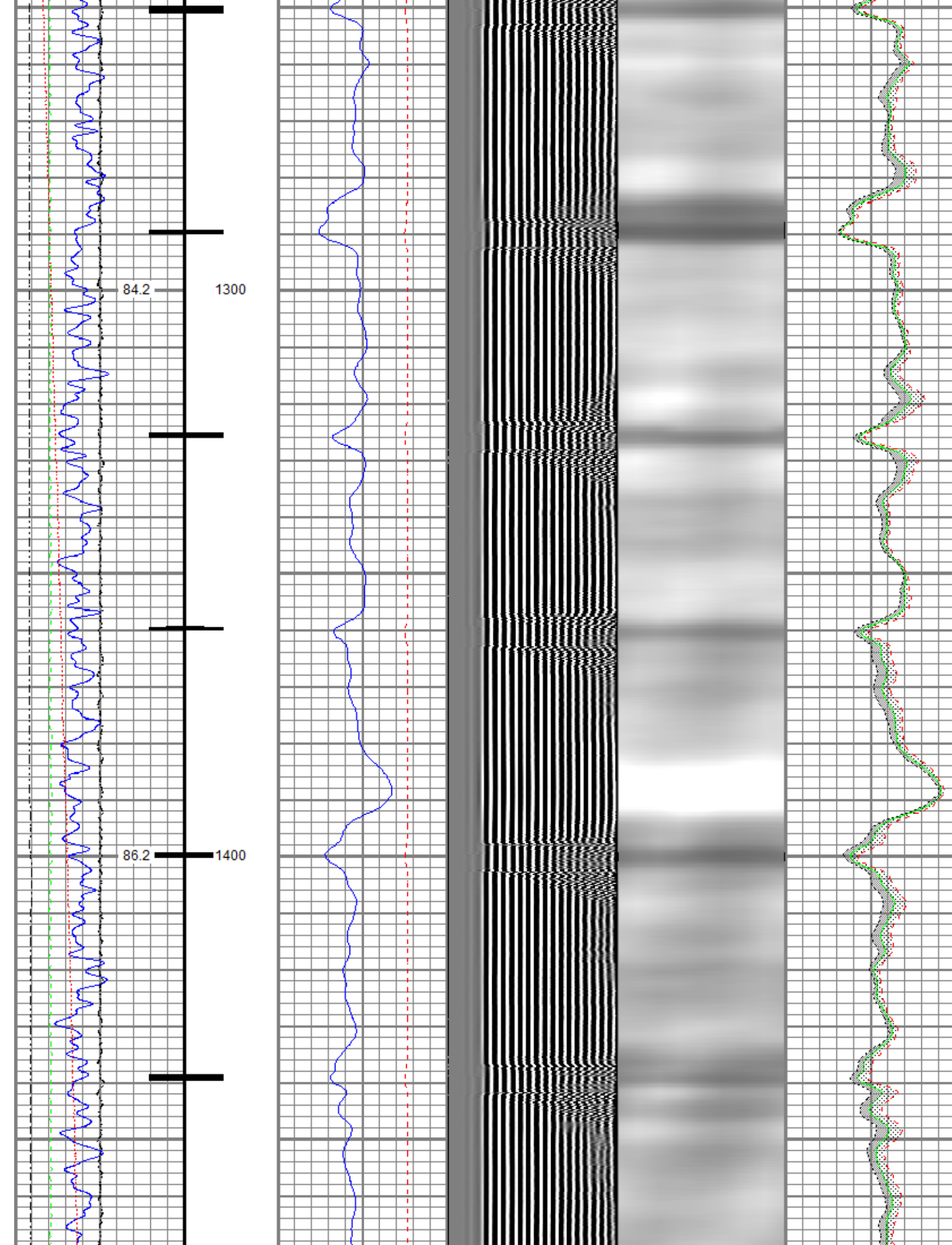


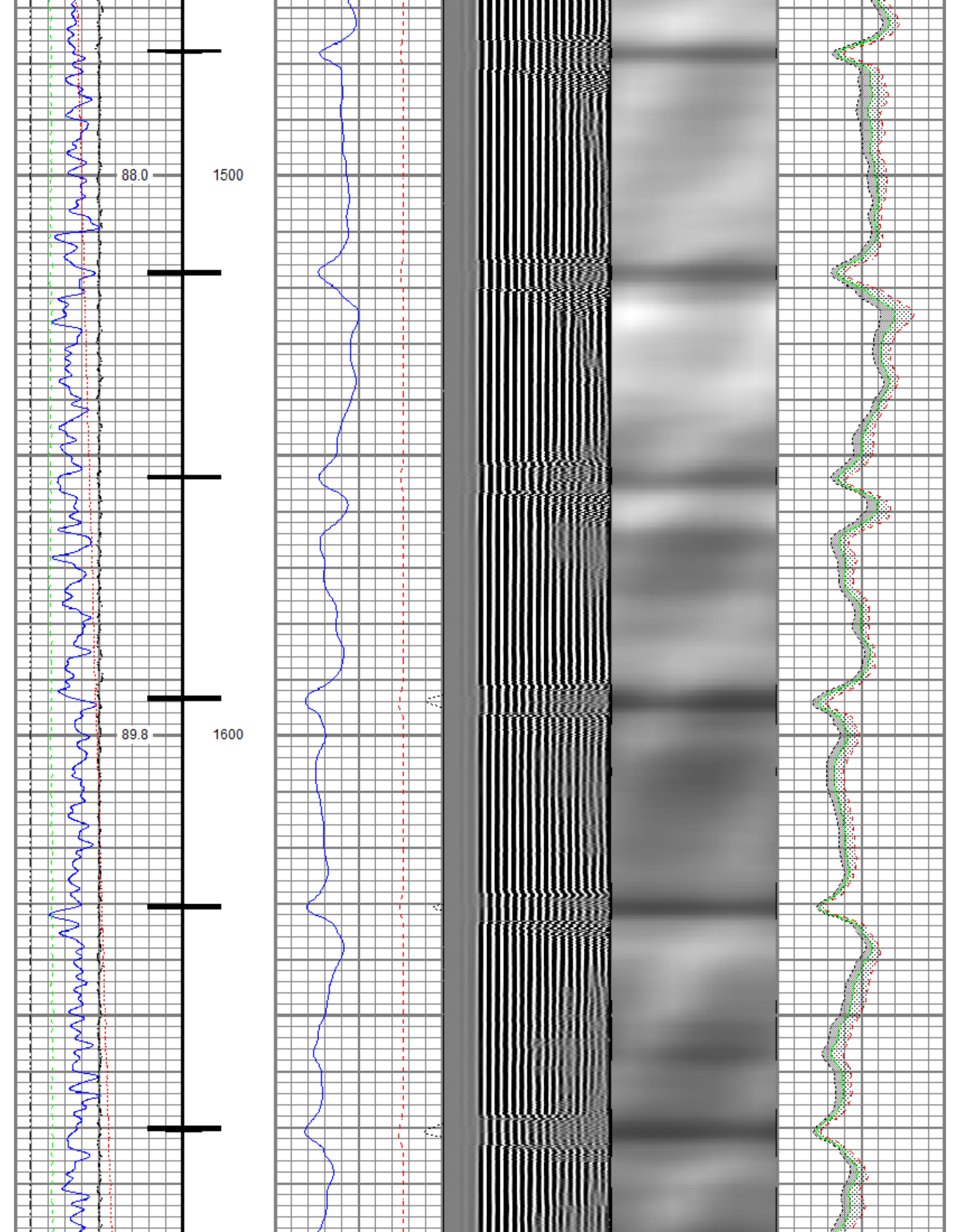


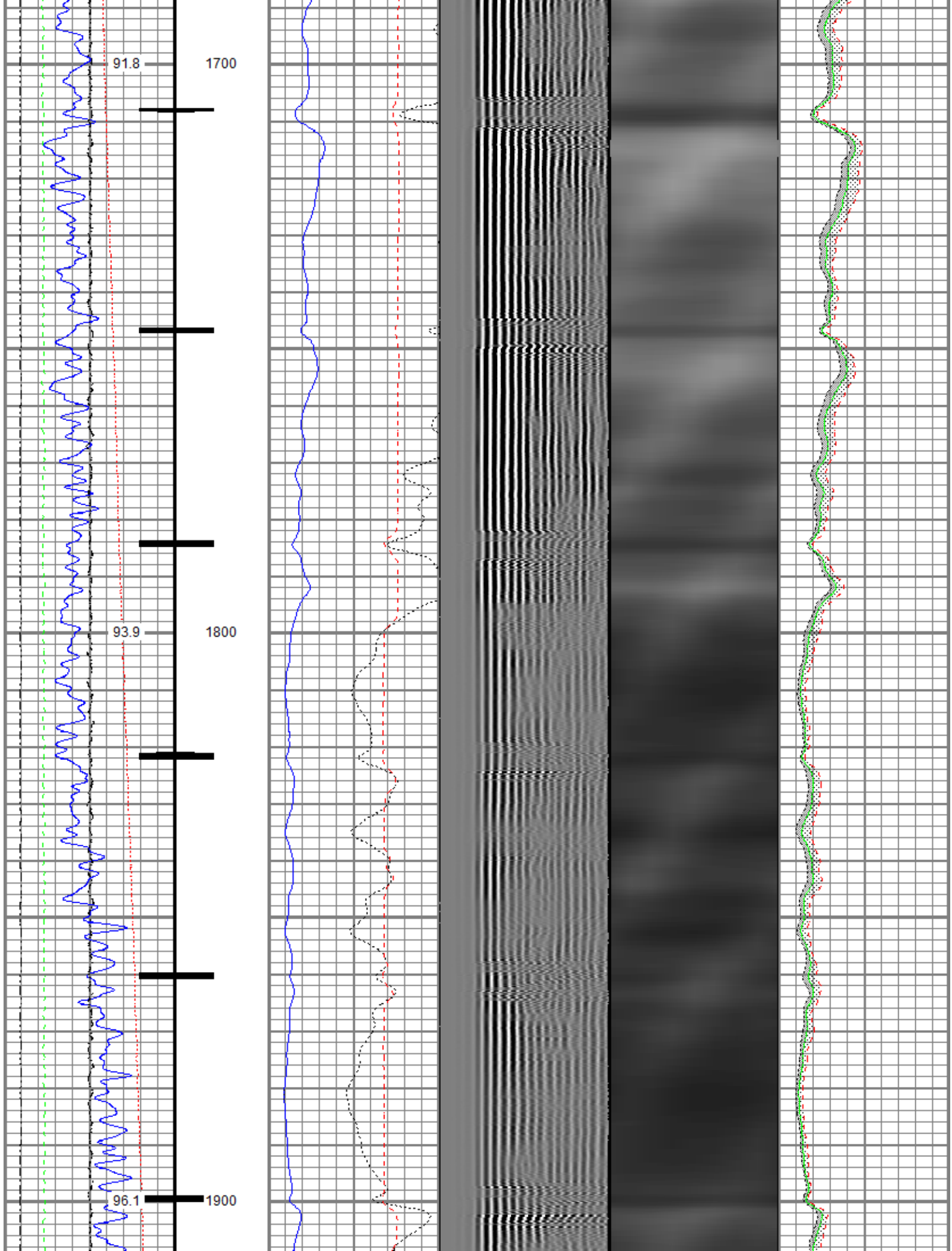


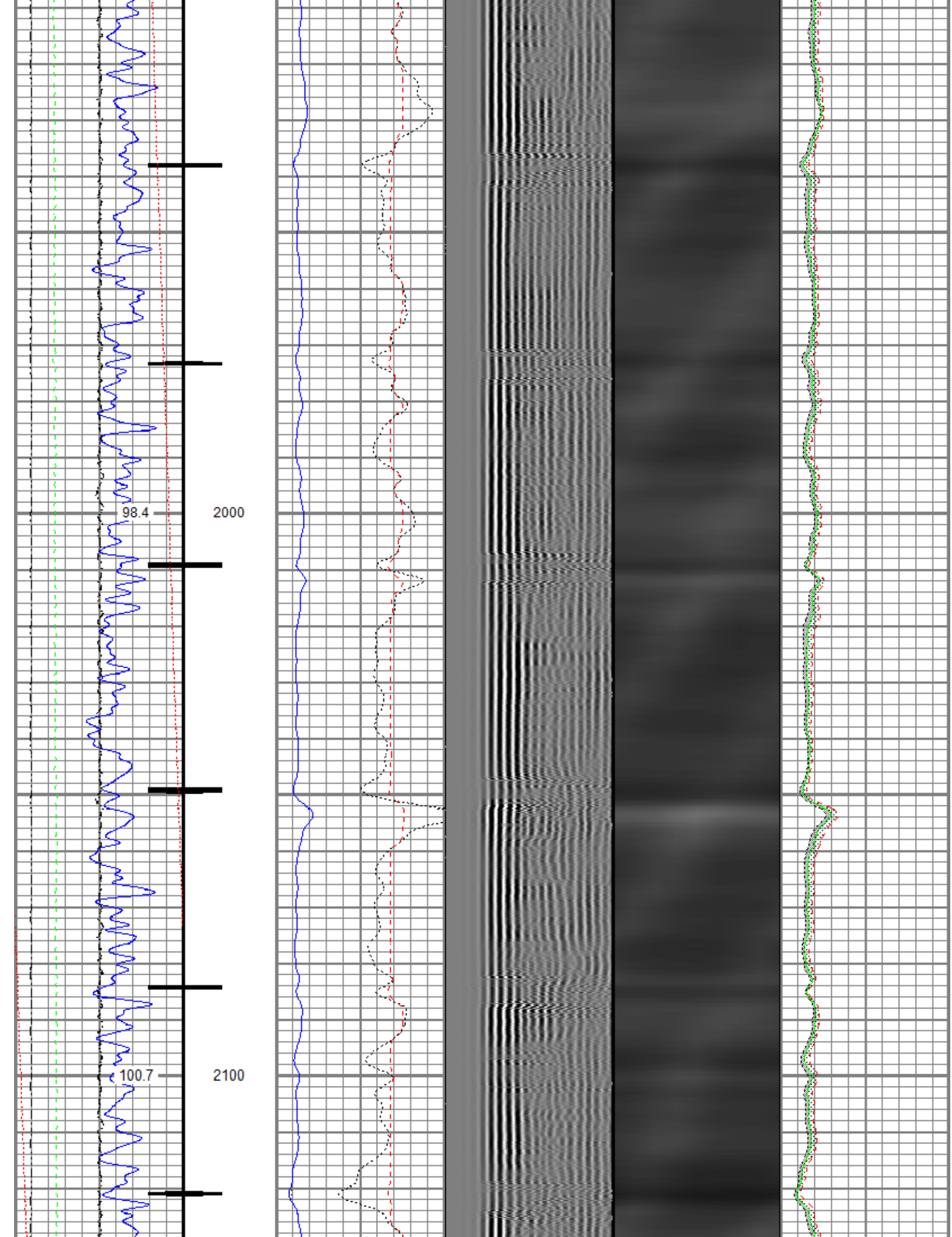


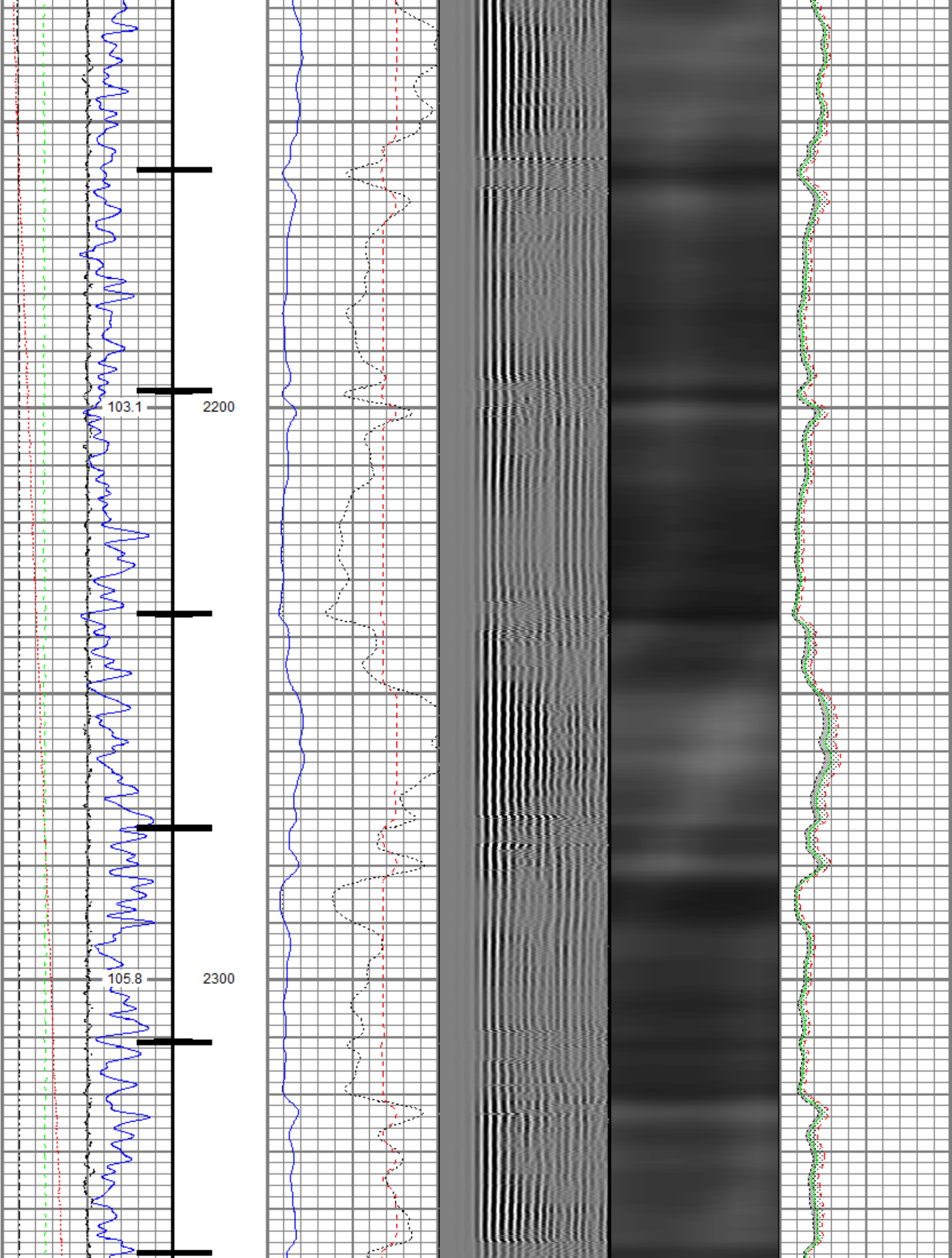


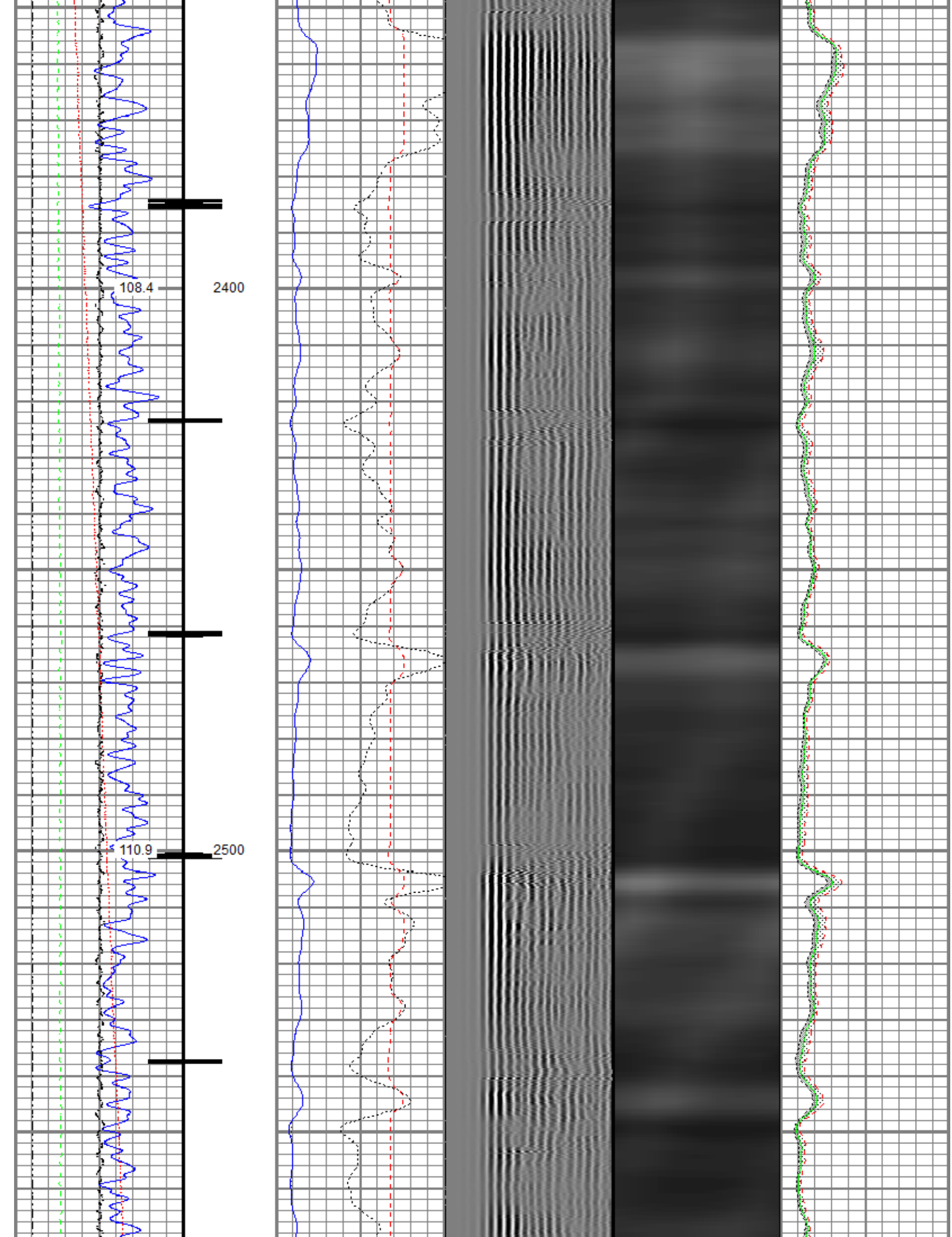


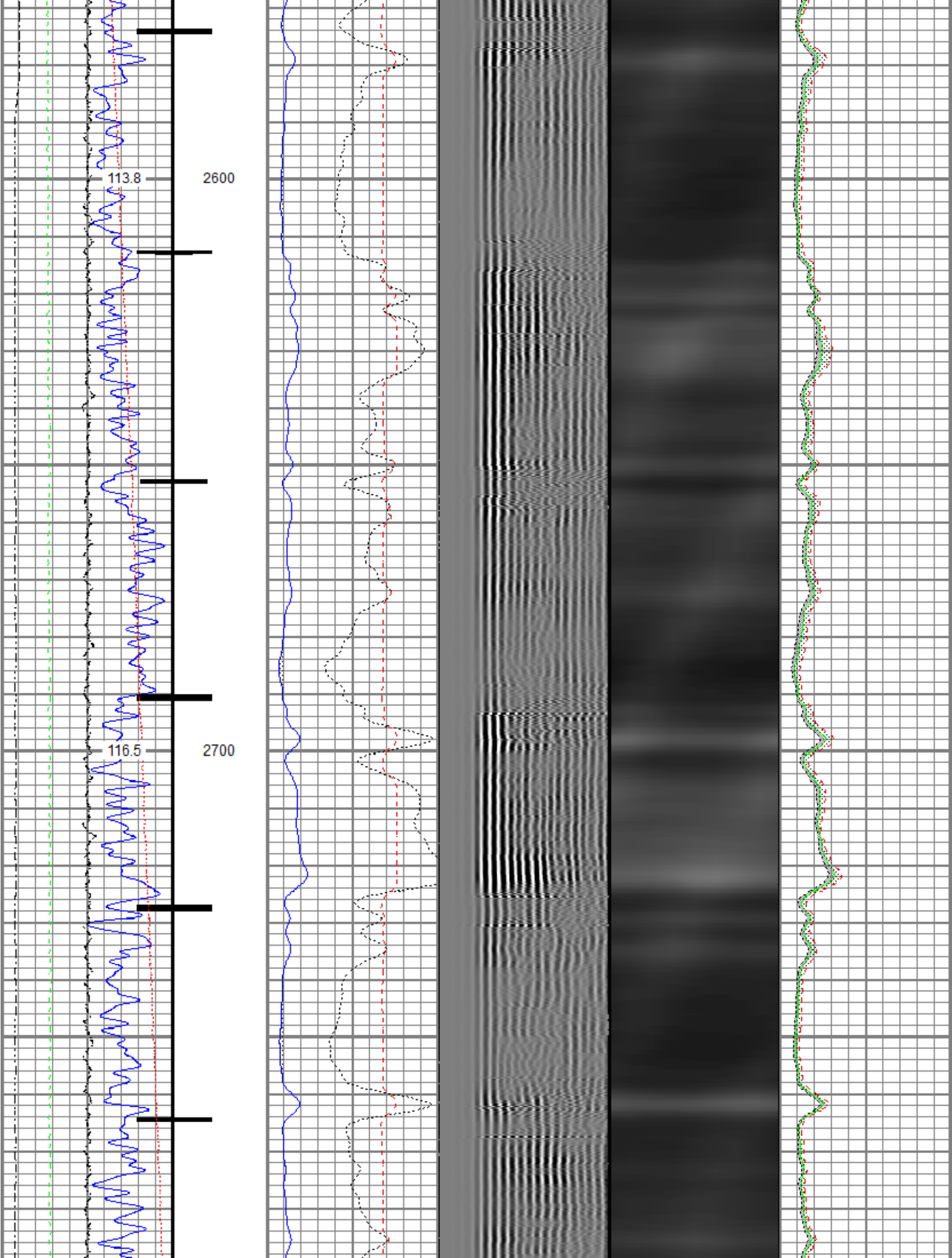


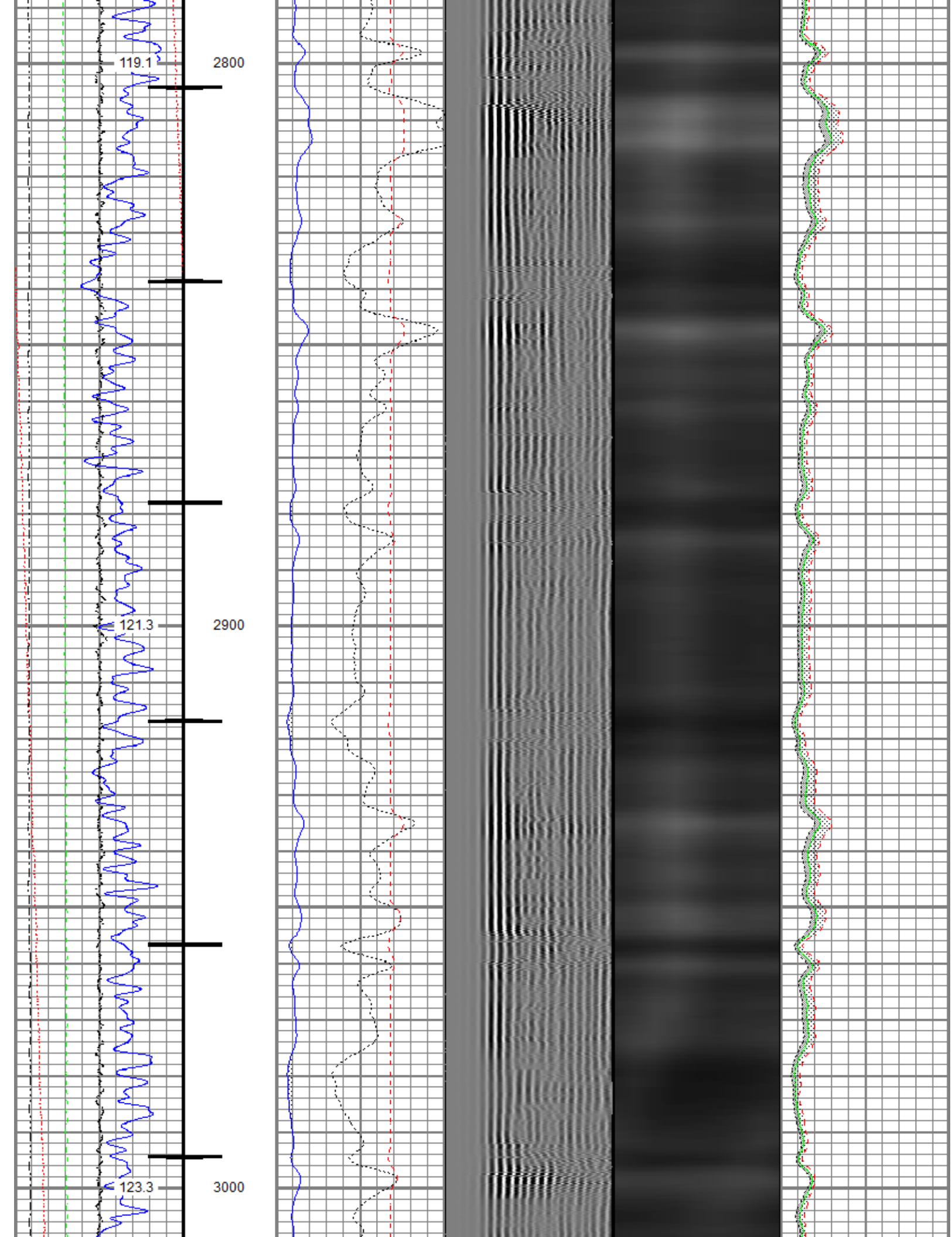


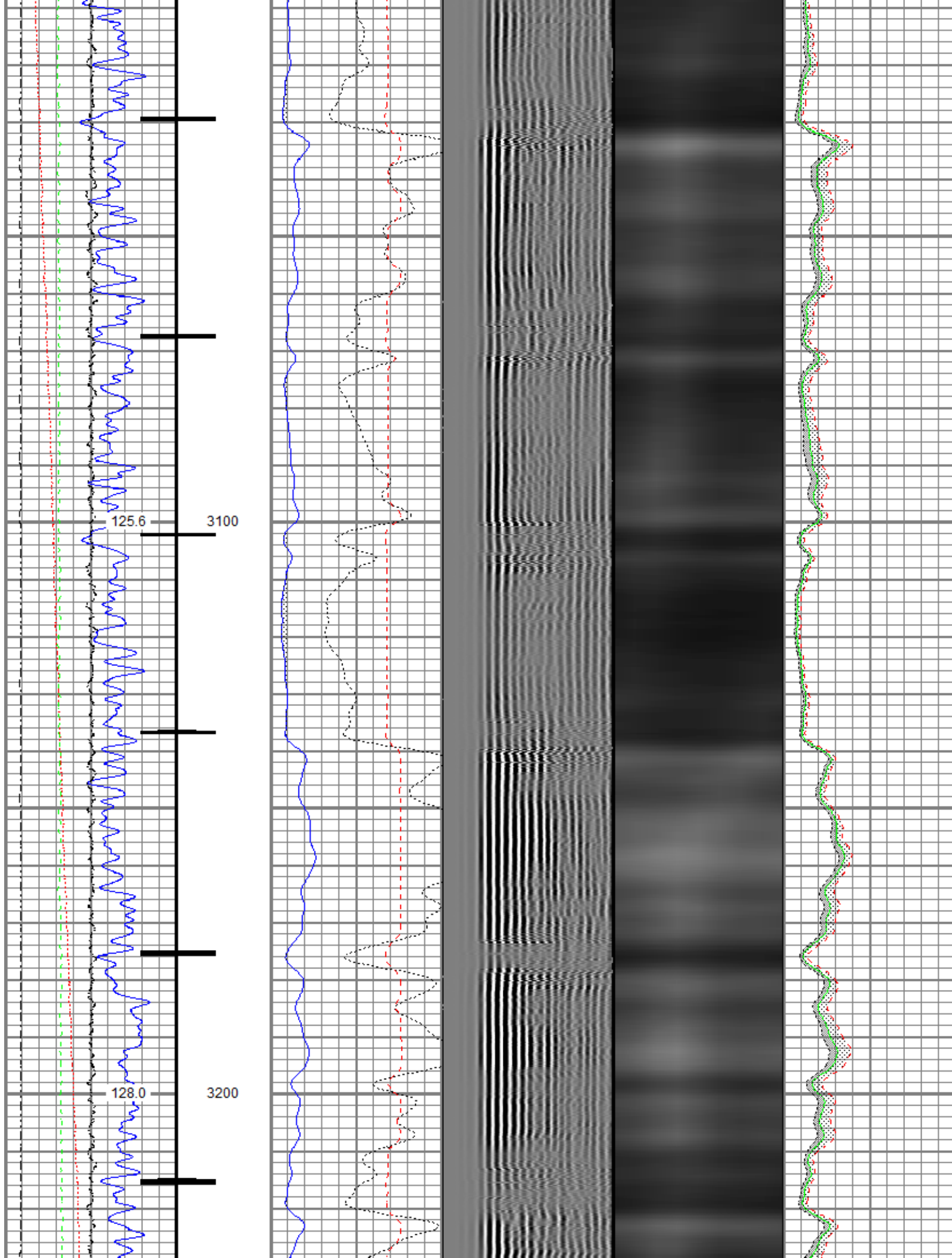


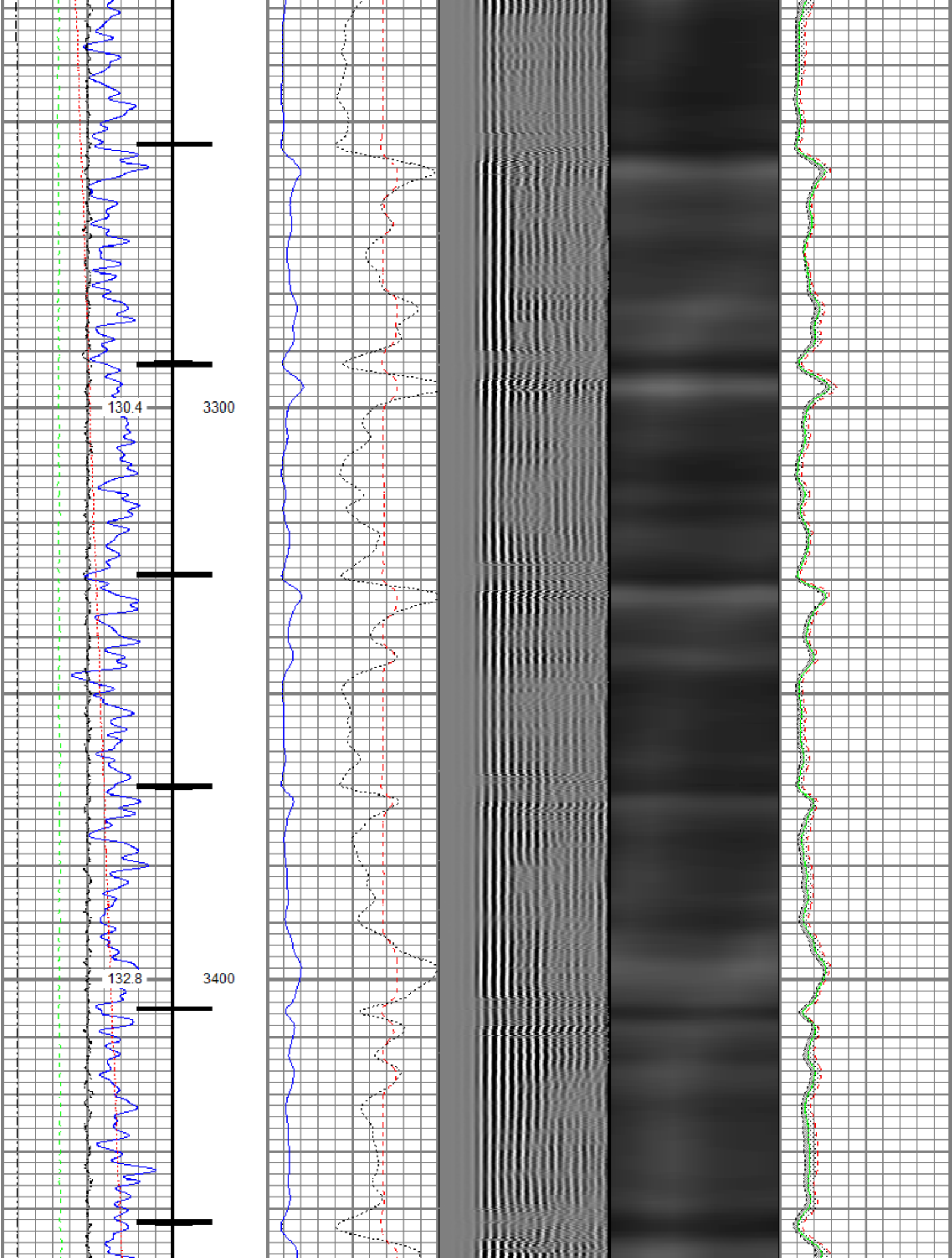


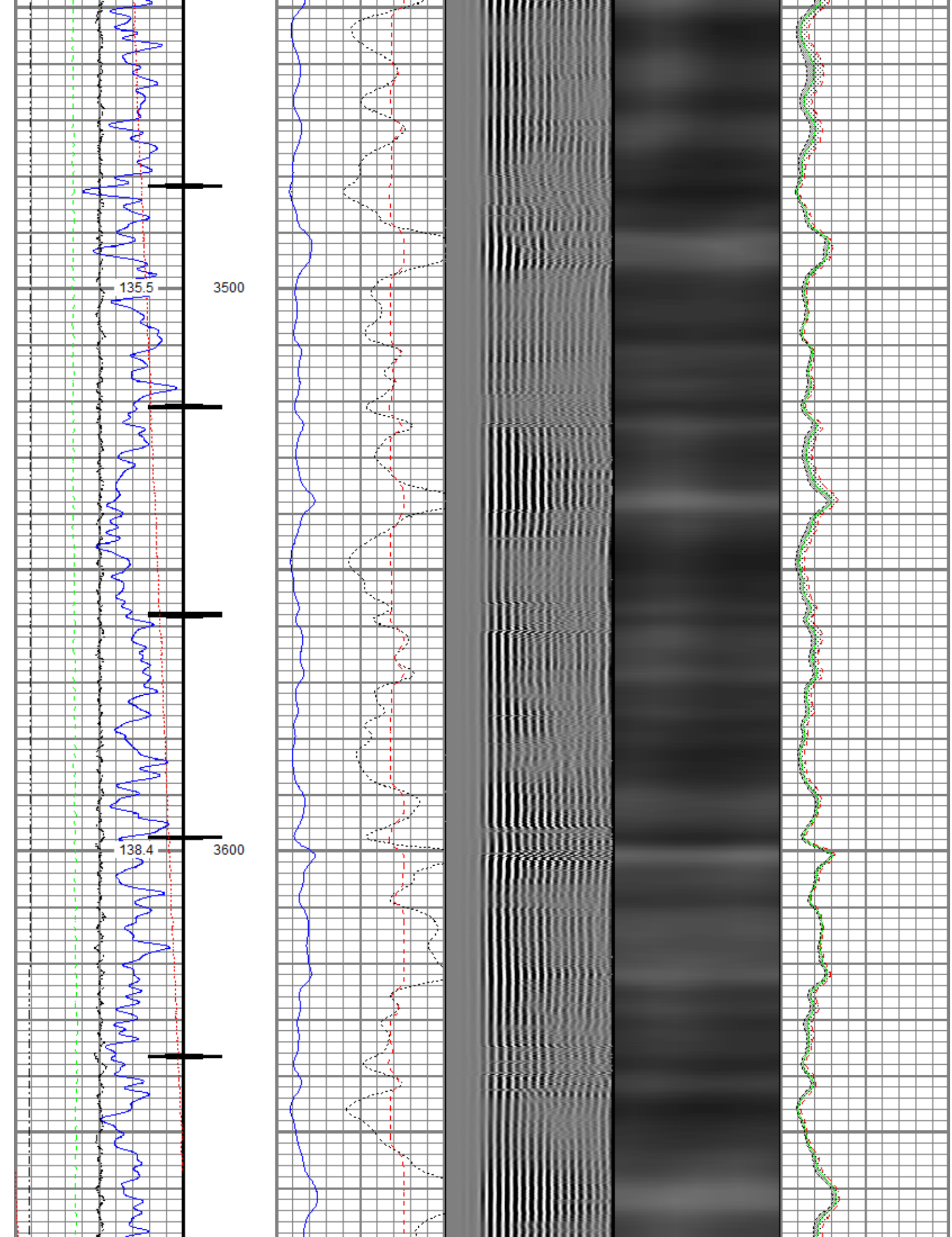


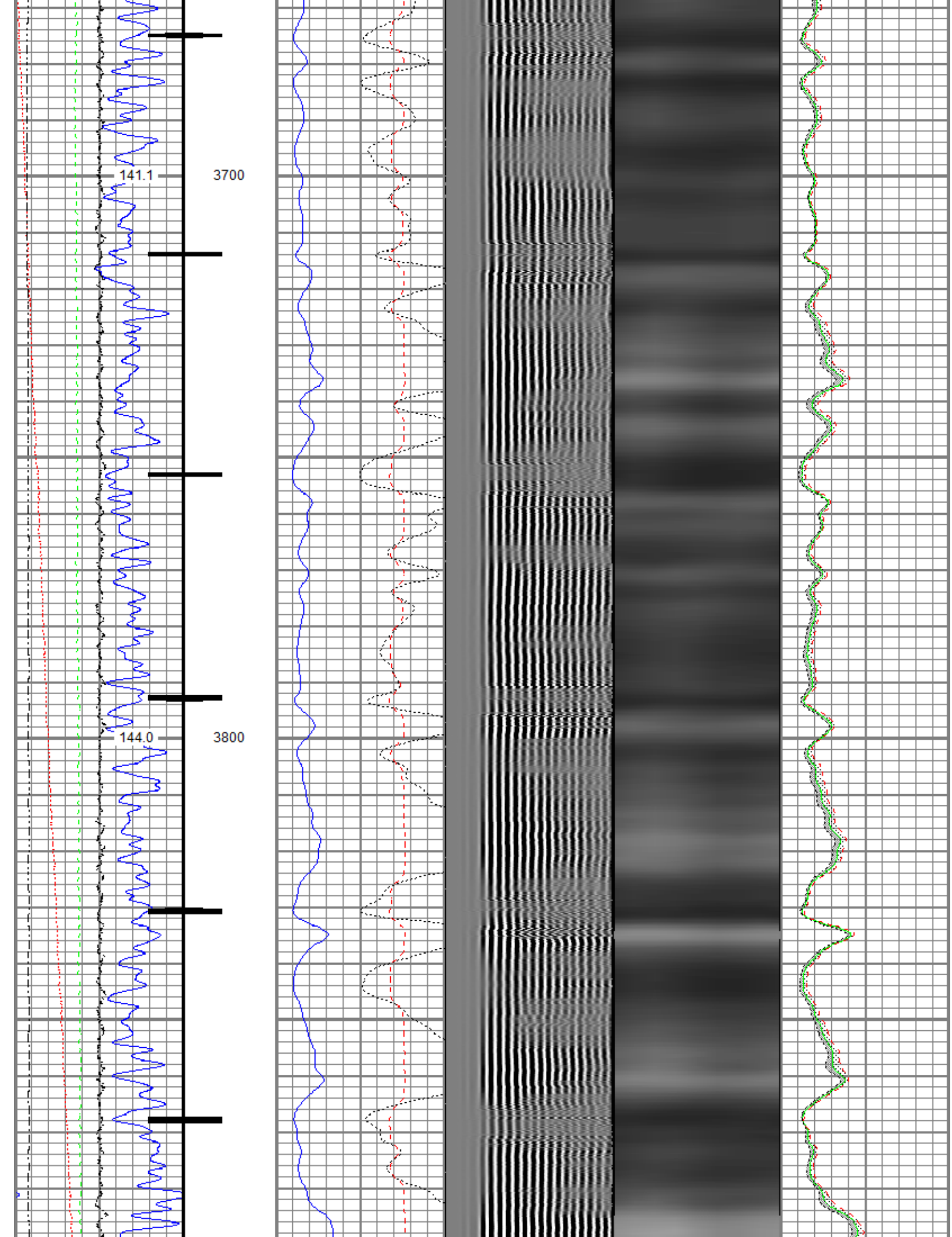


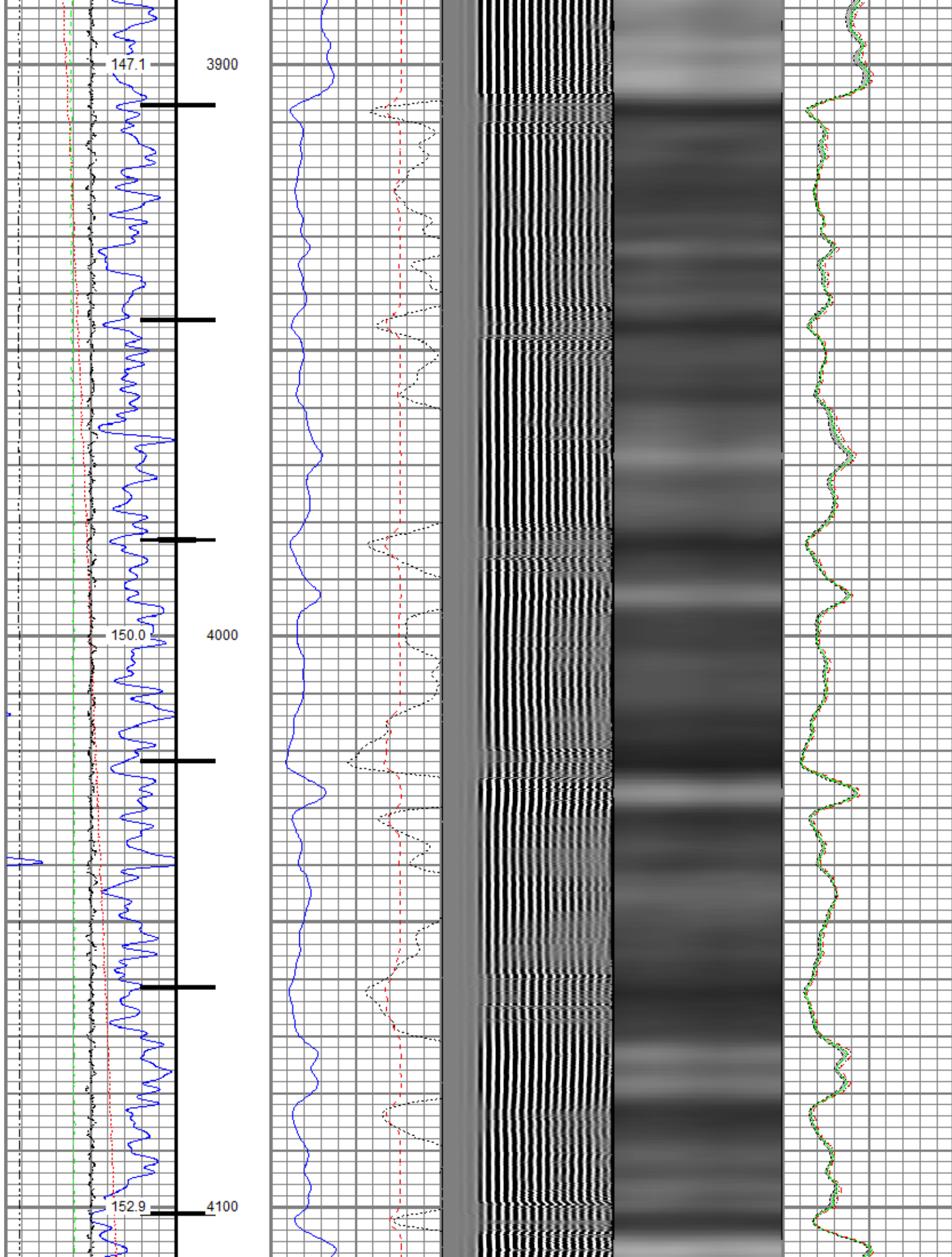


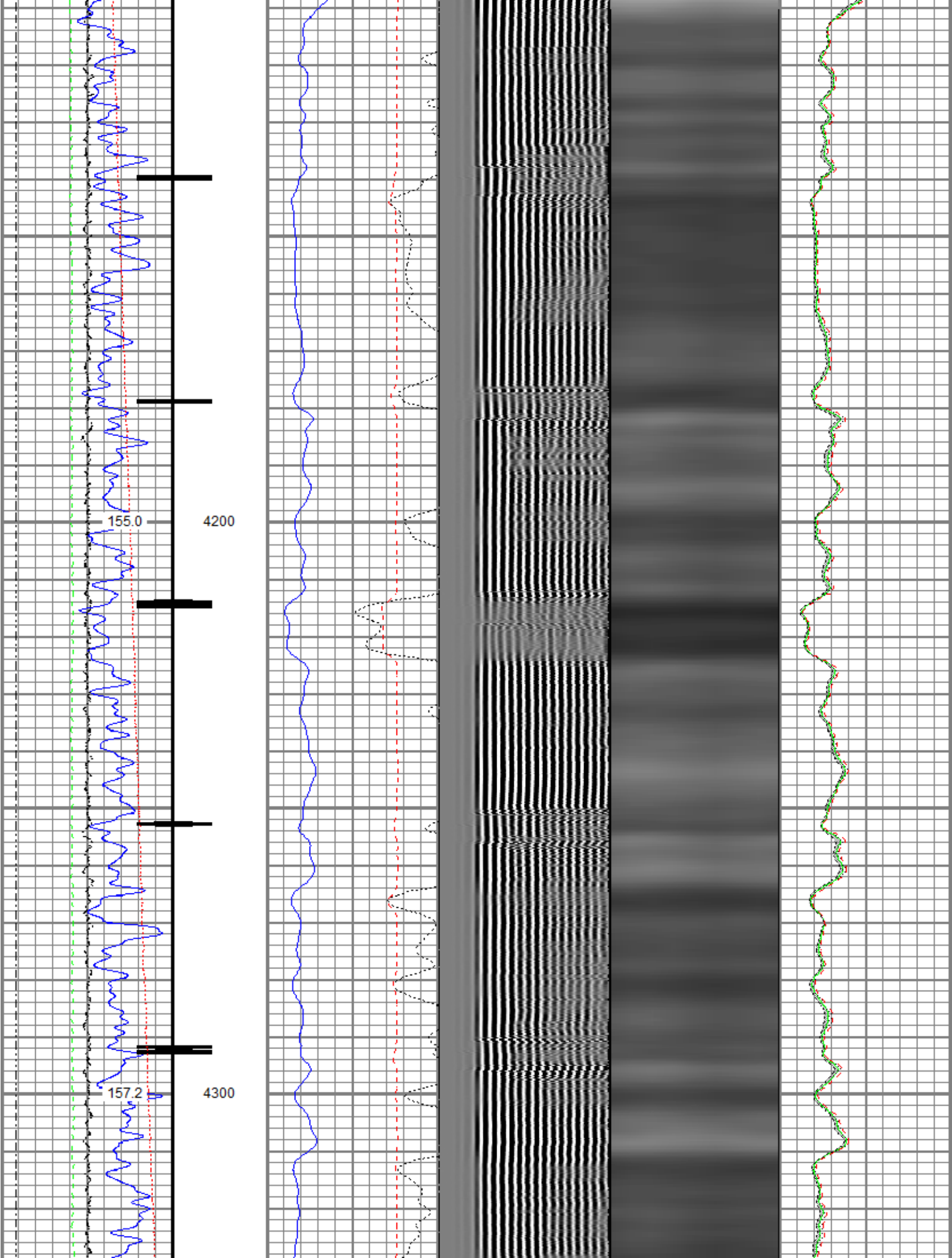


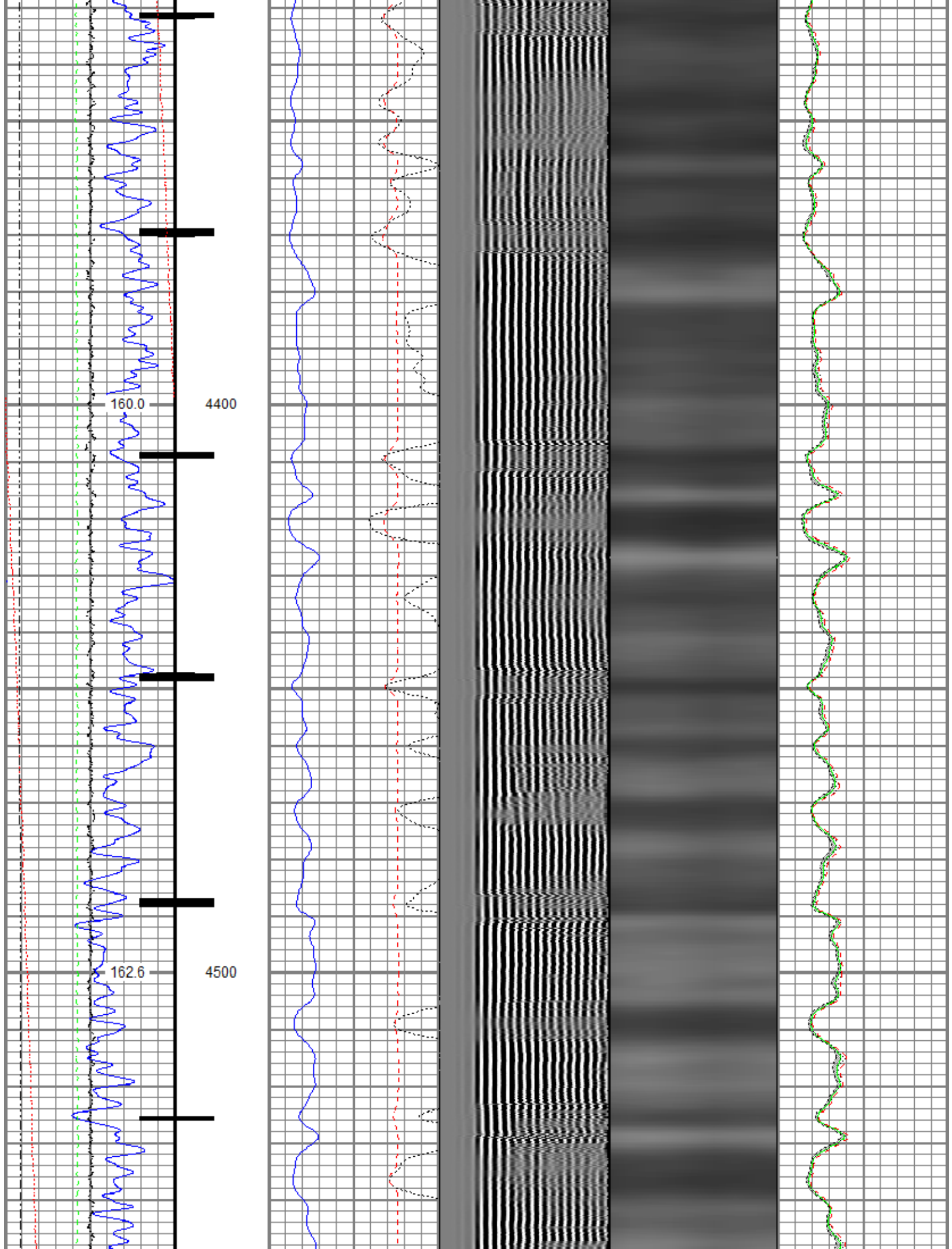


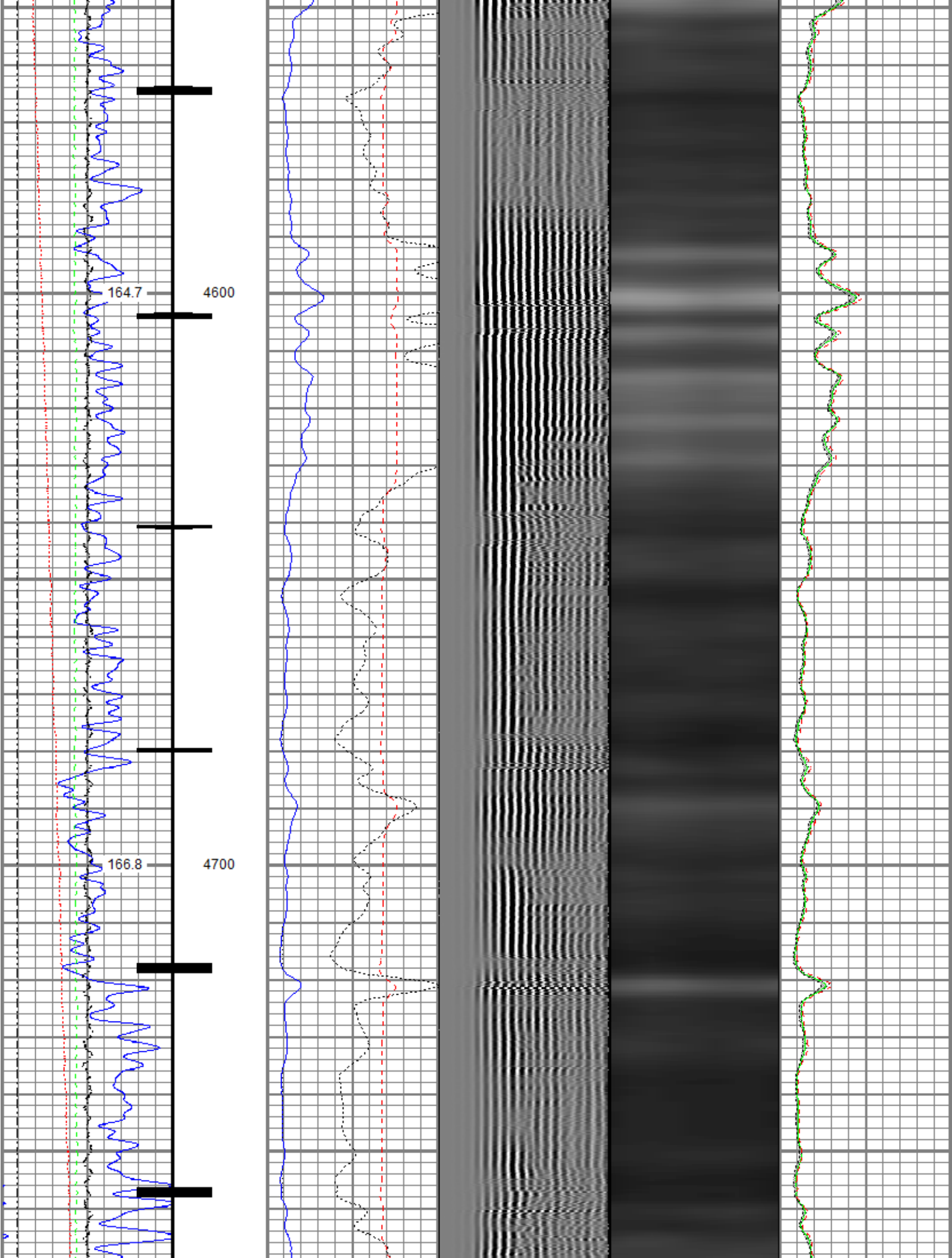


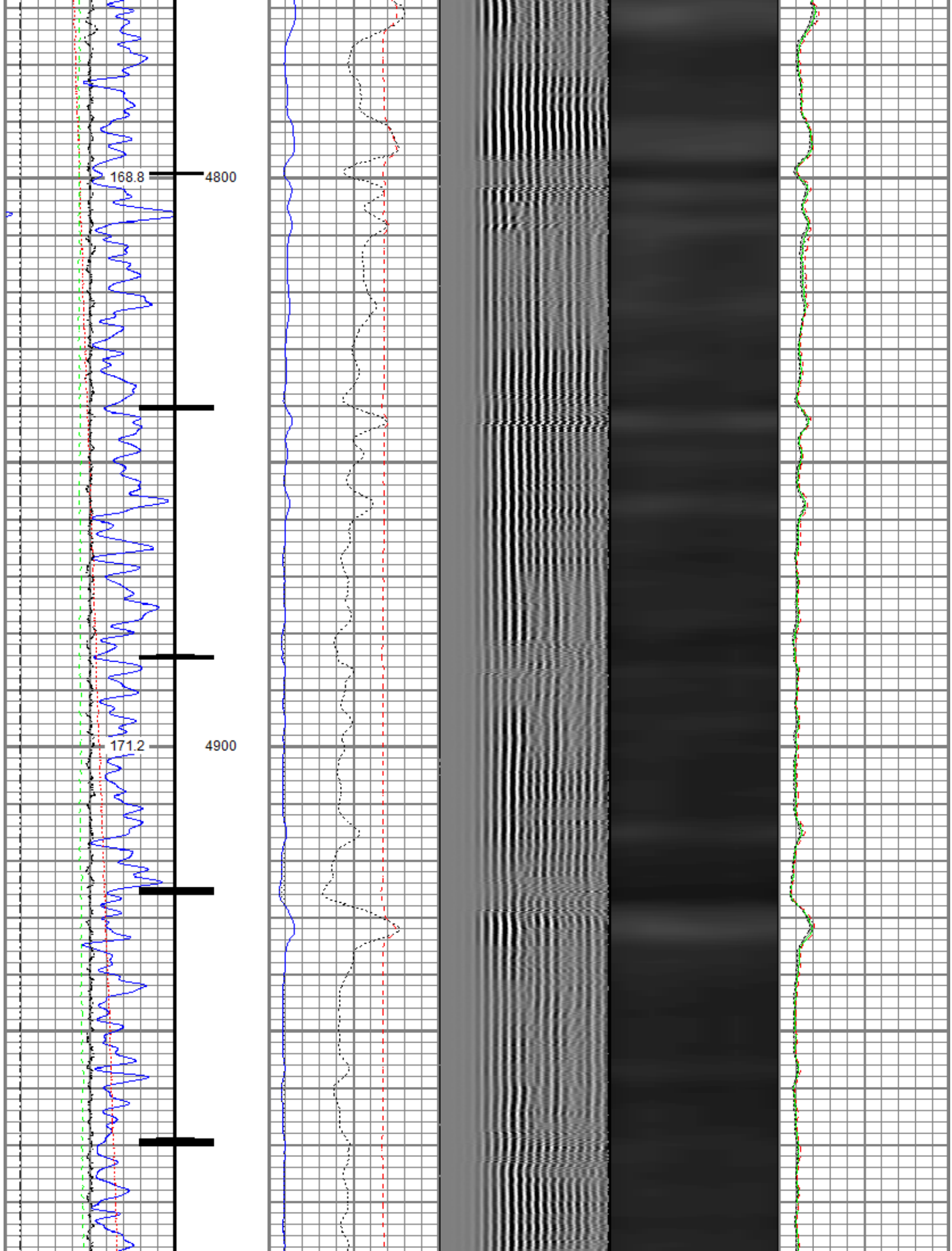












173.5

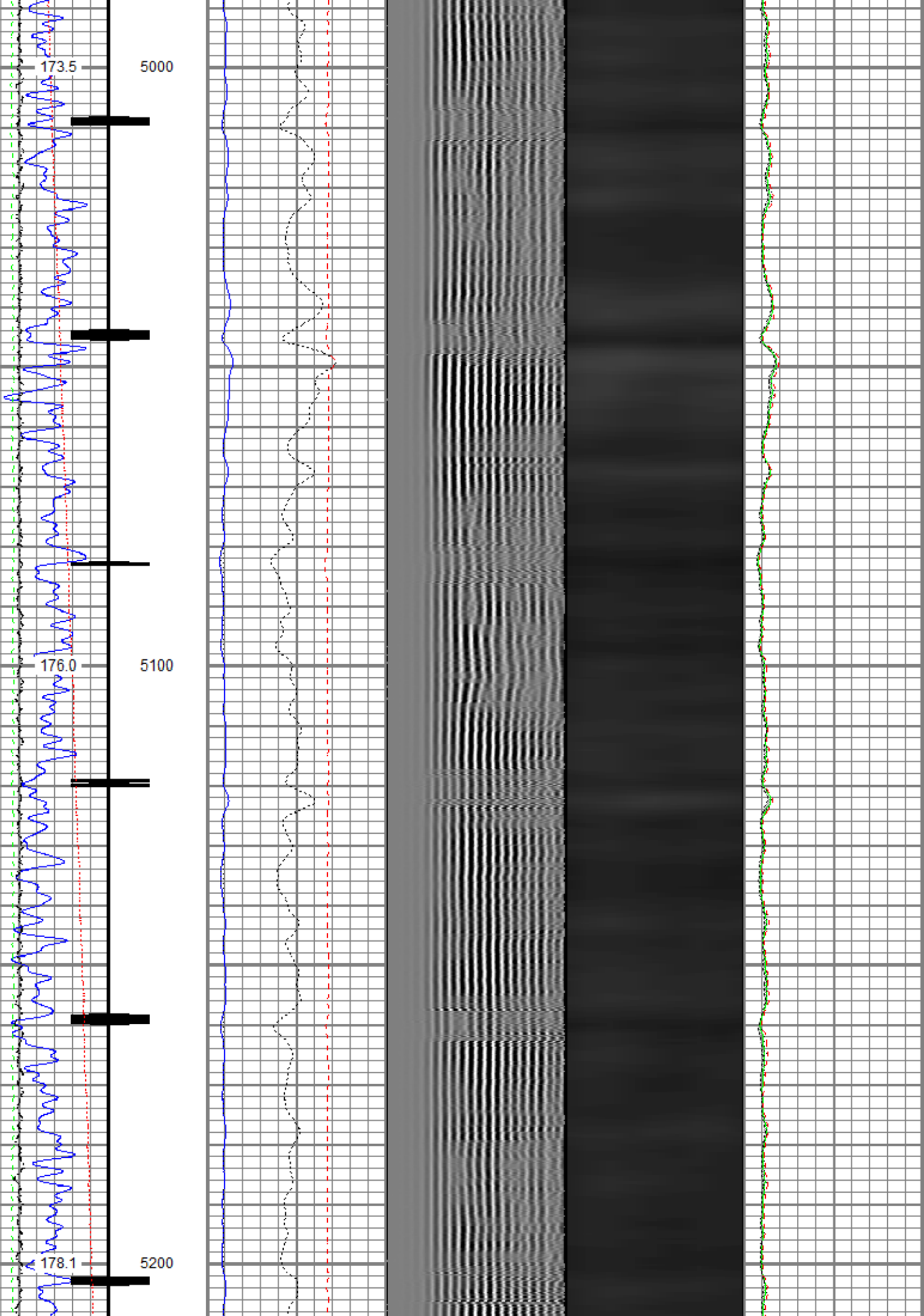
5000

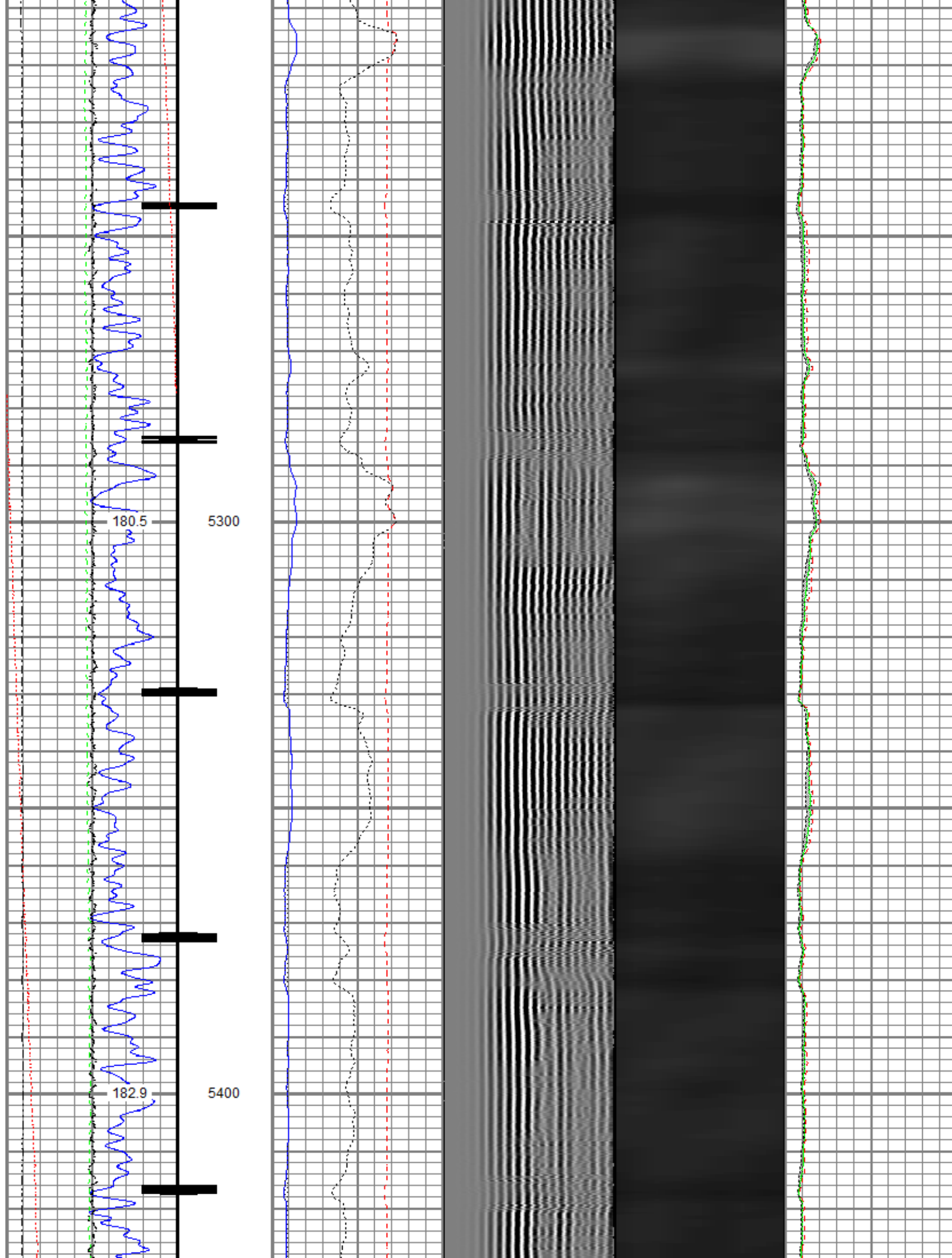
176.0

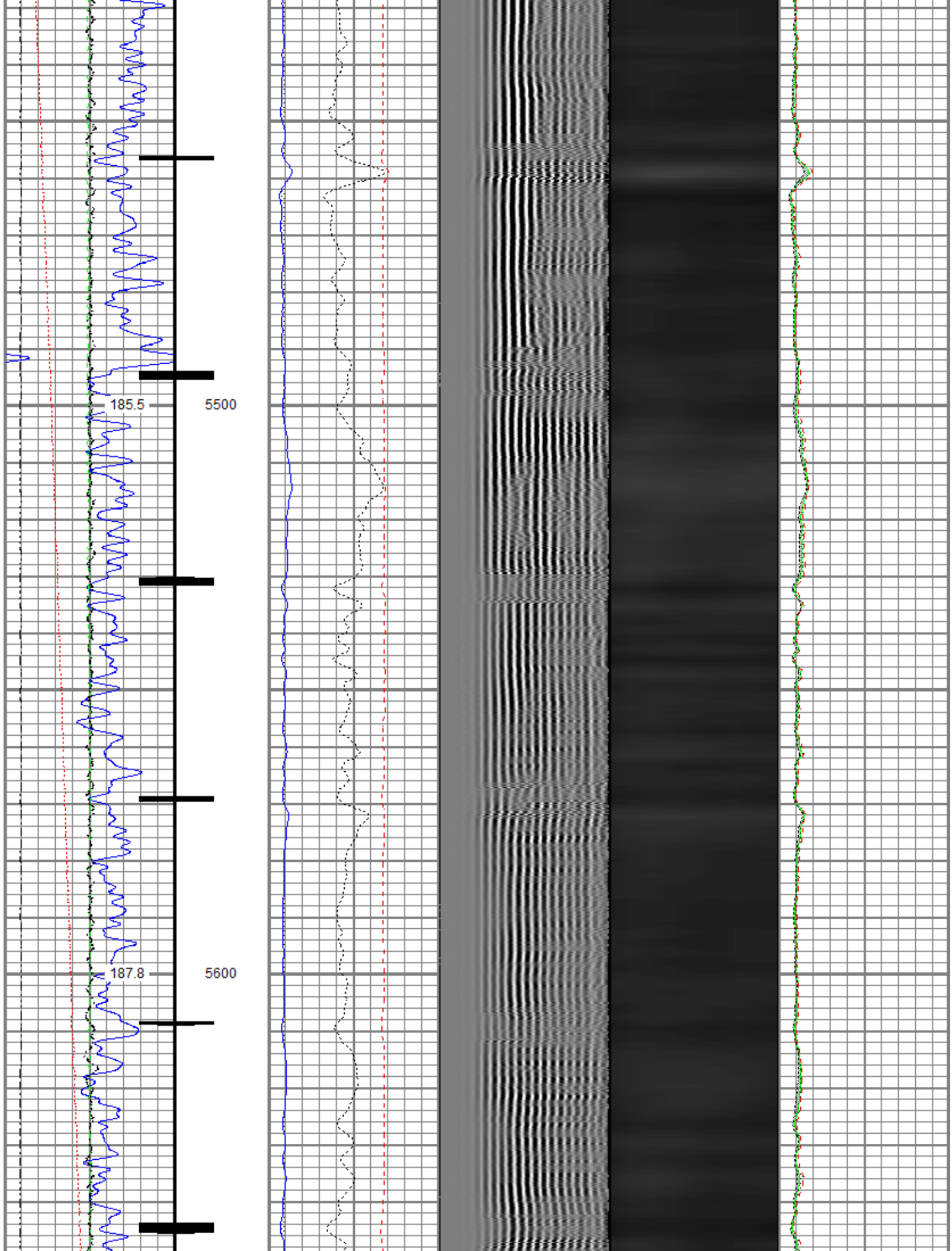
5100

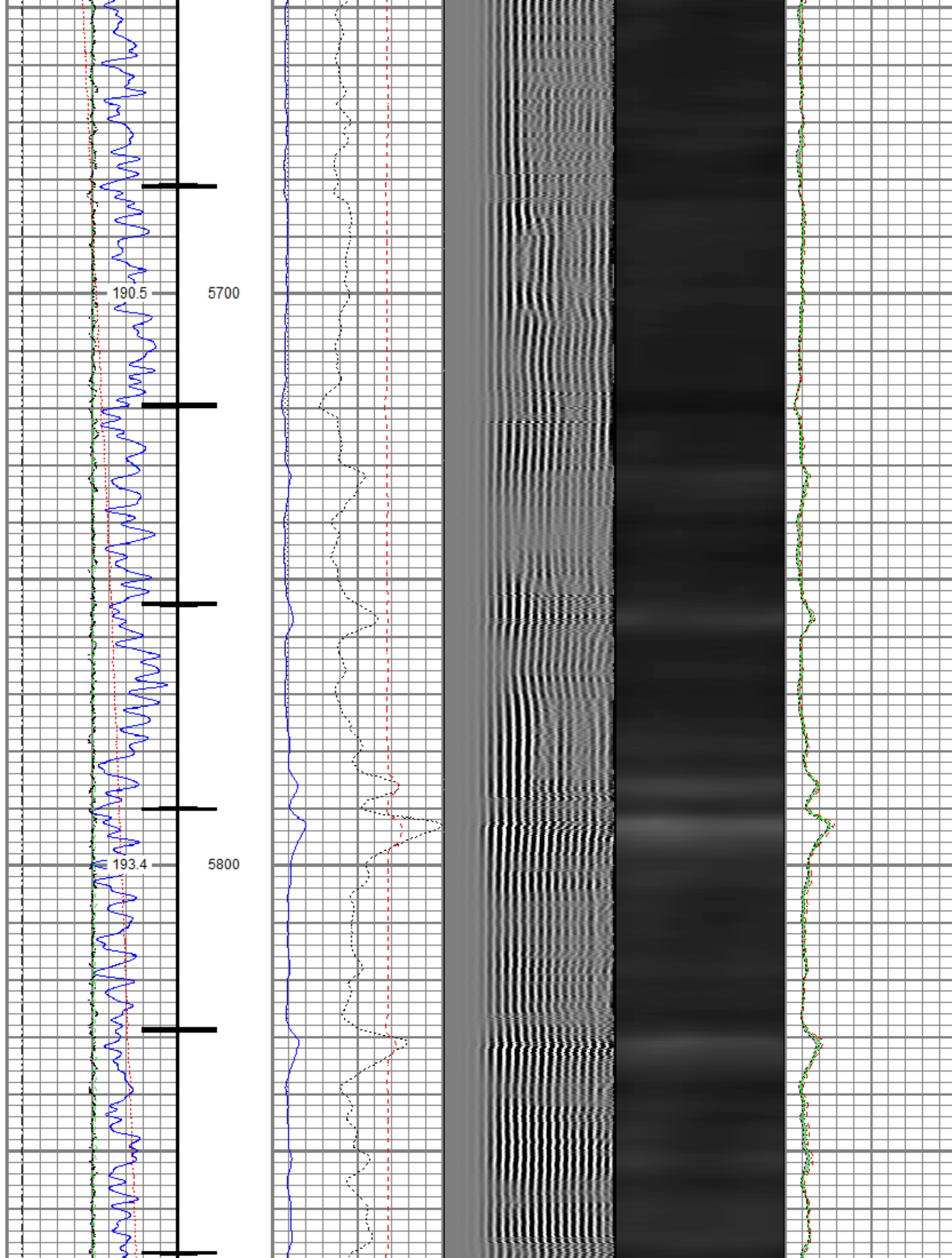
178.1

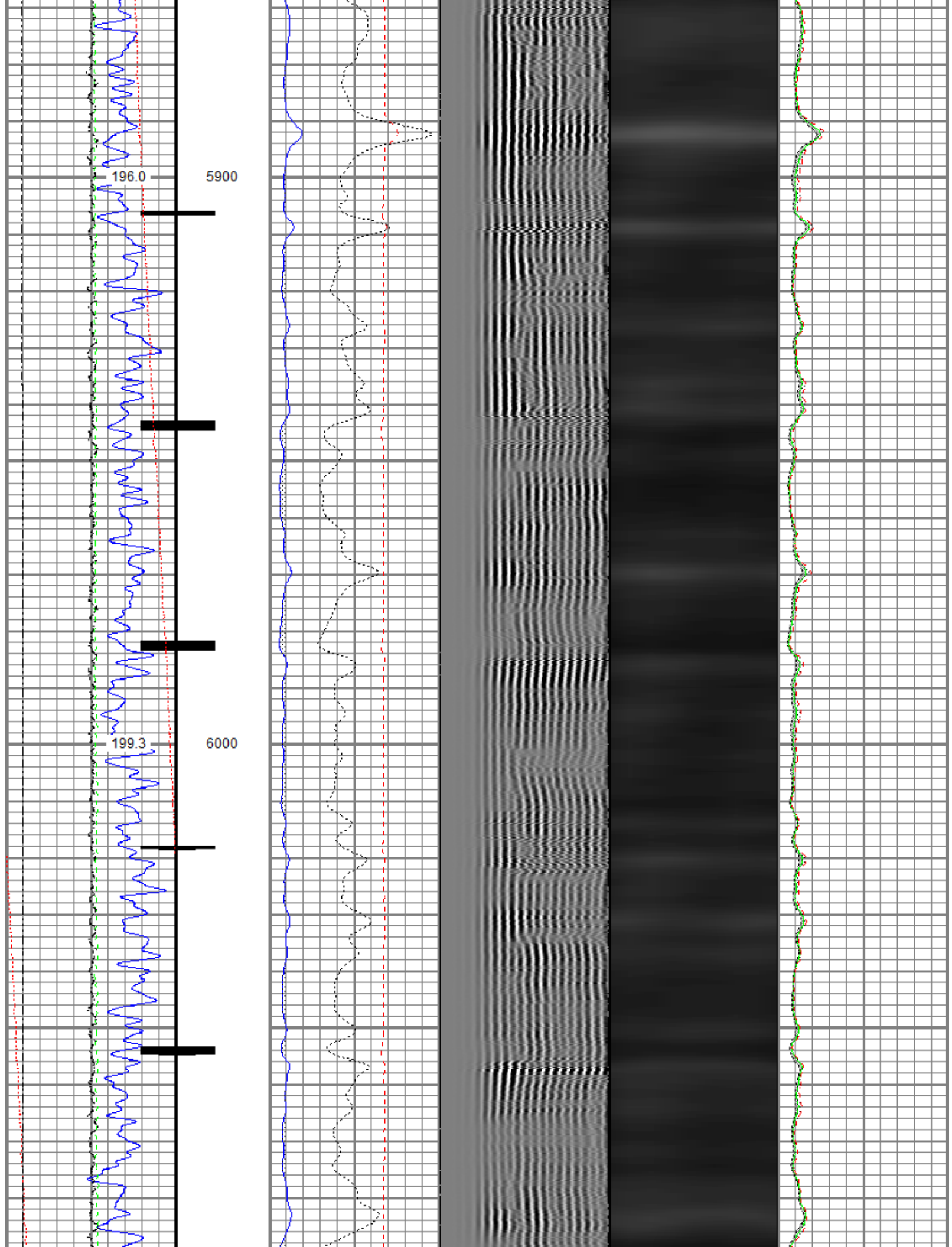
5200

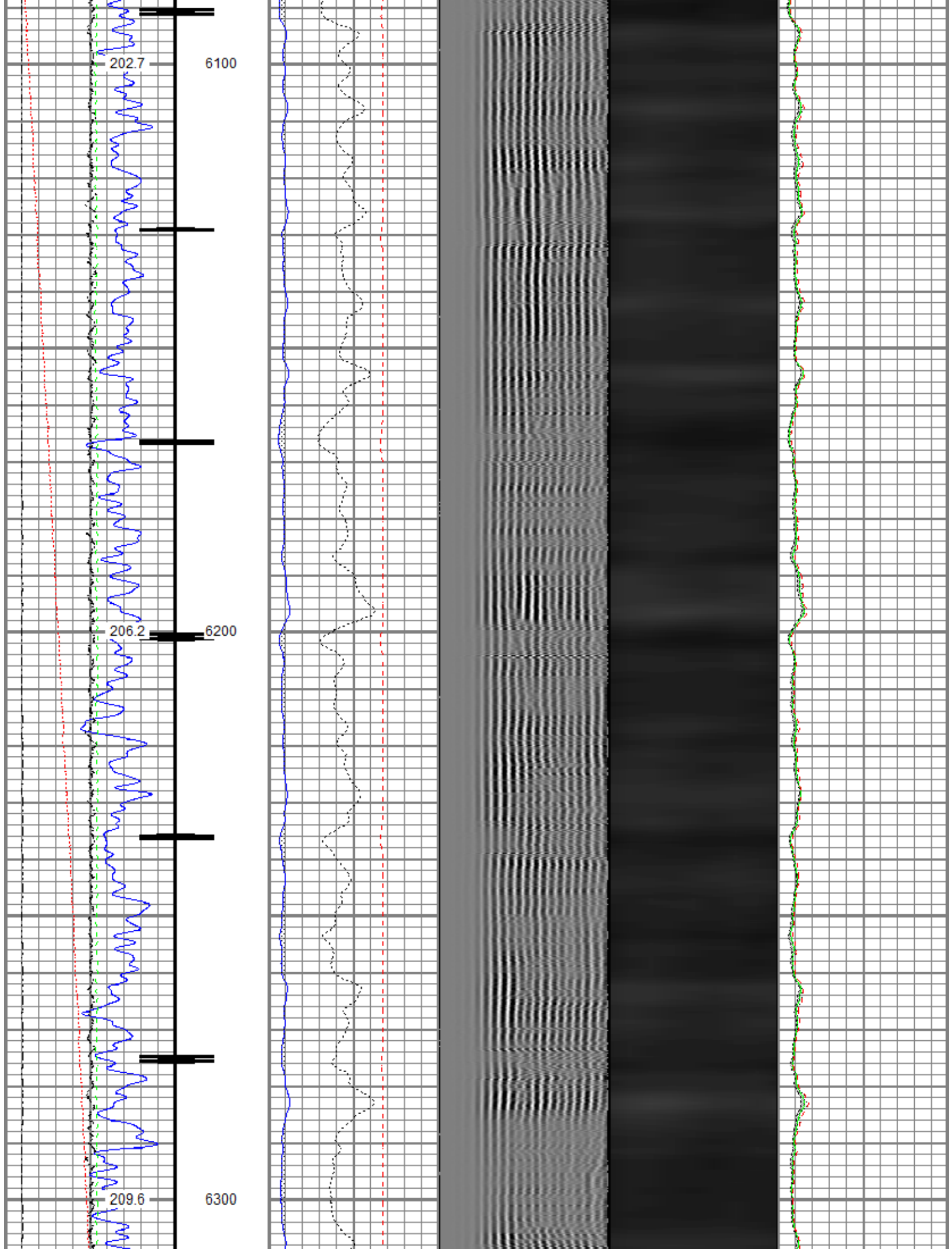


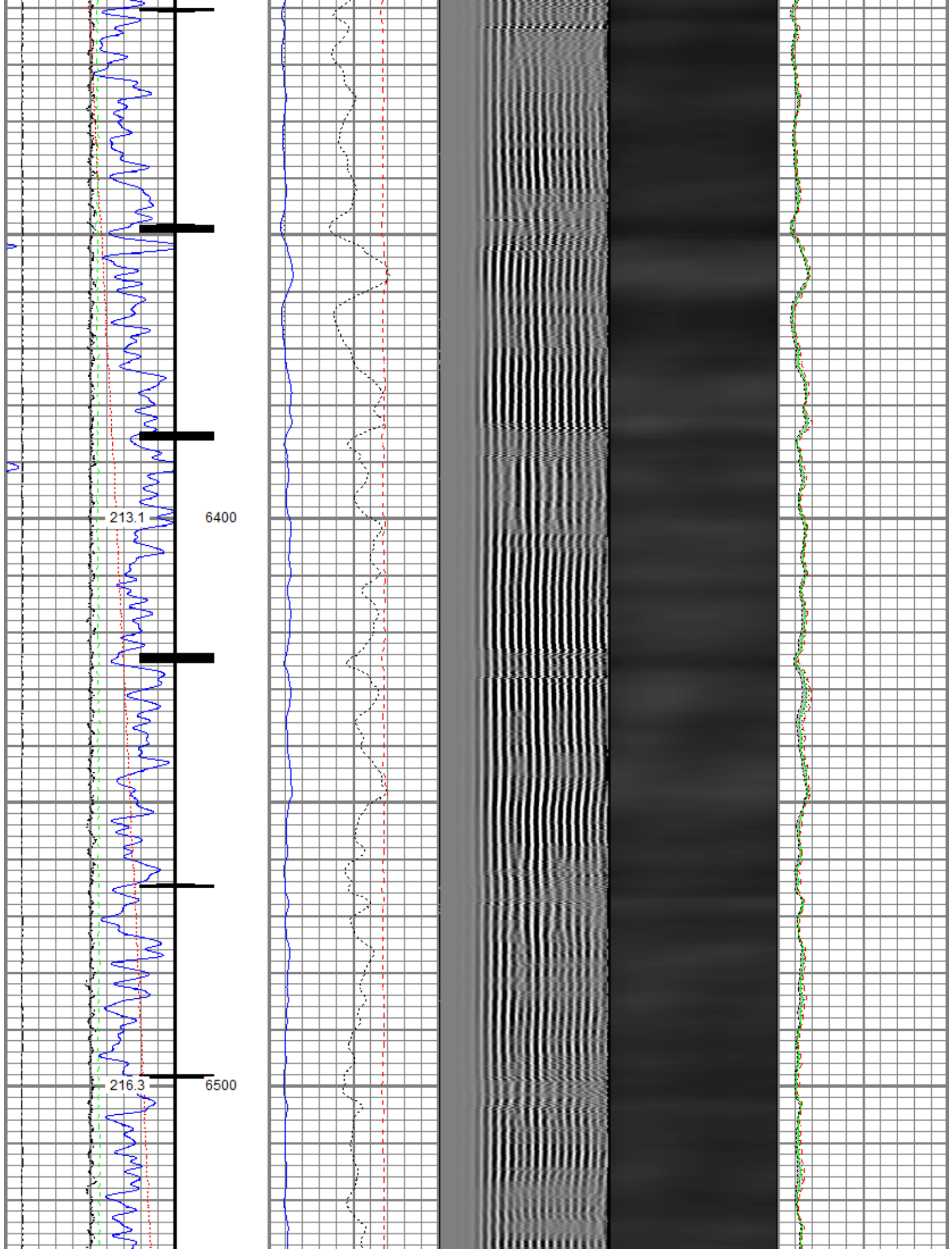


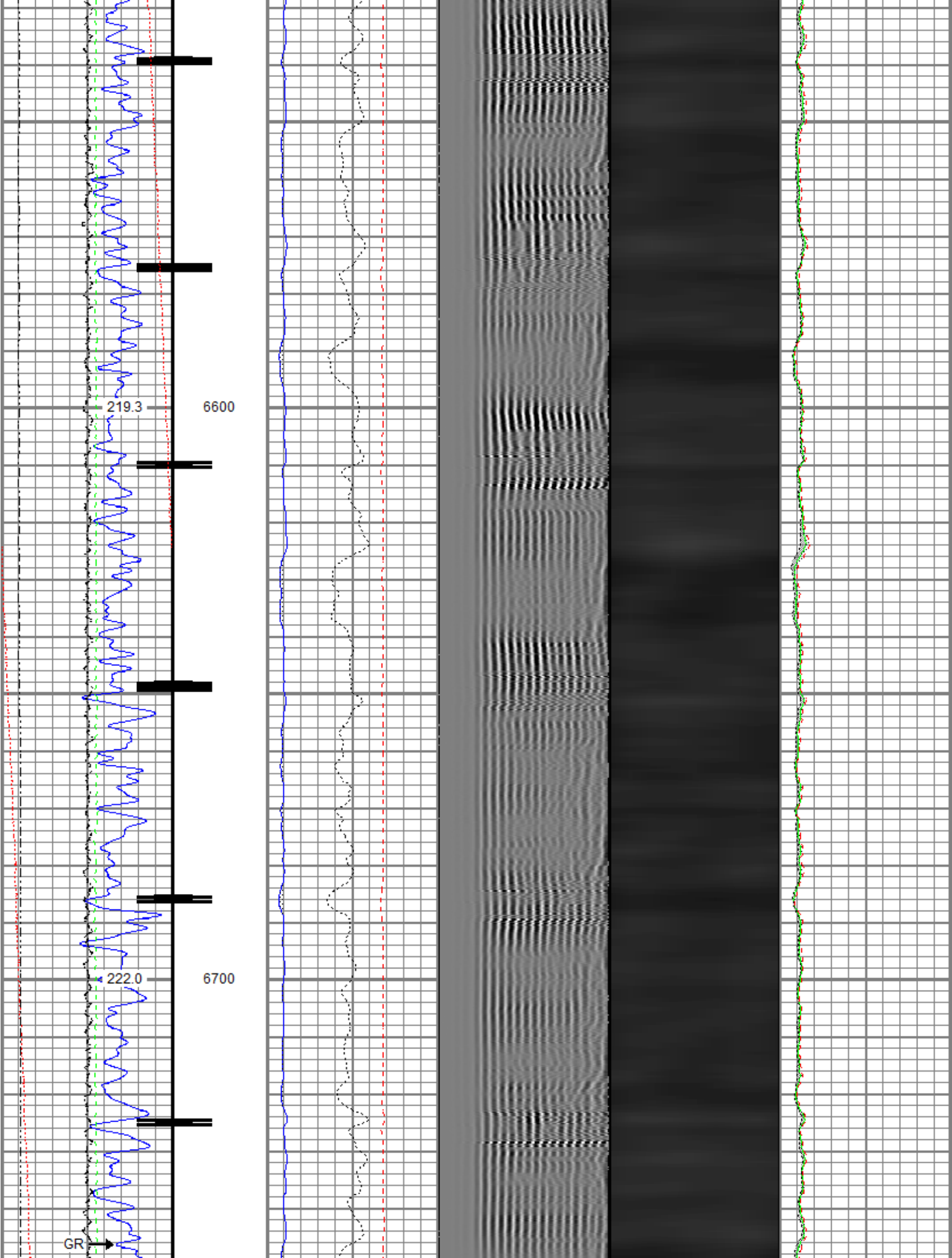


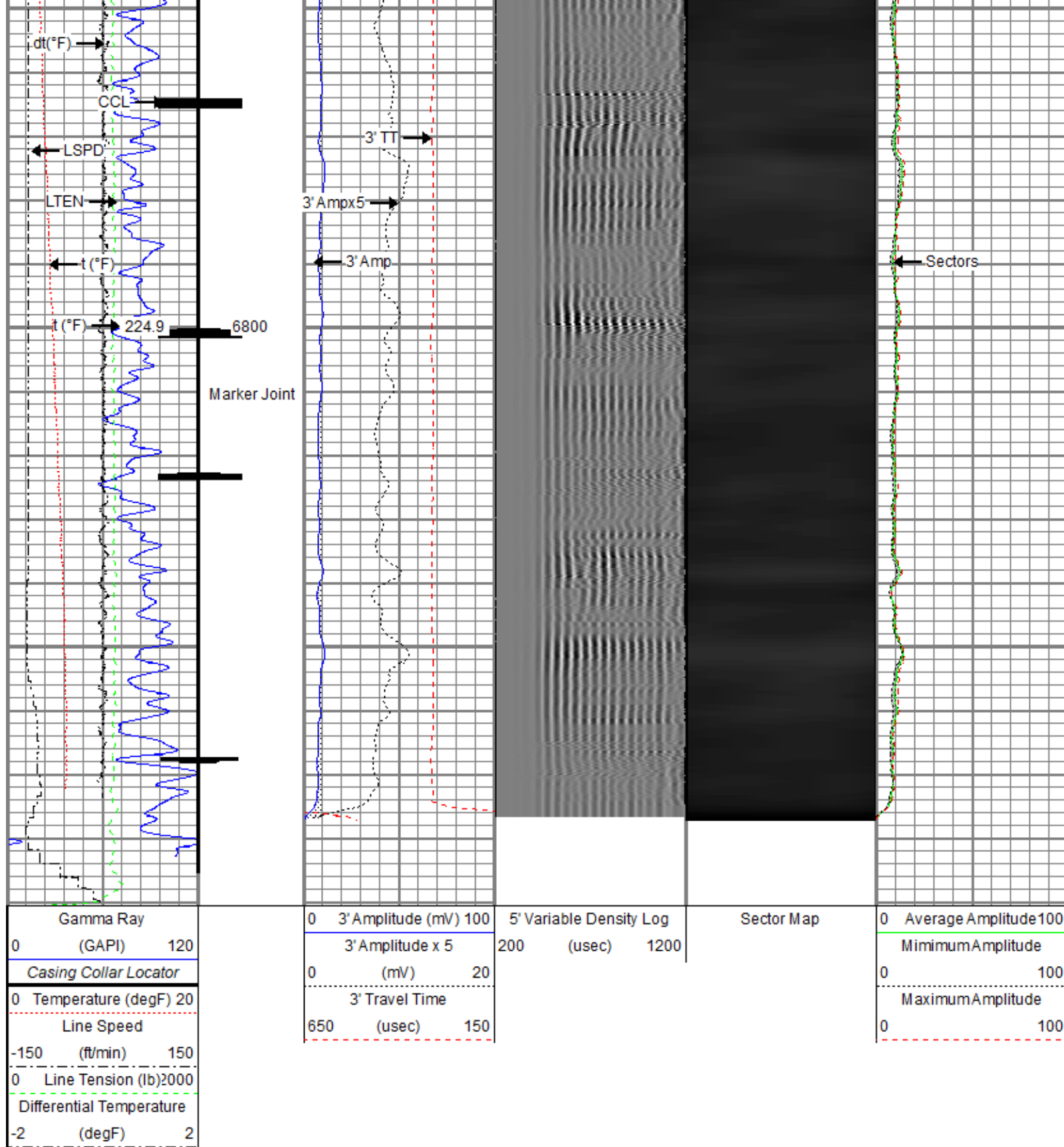










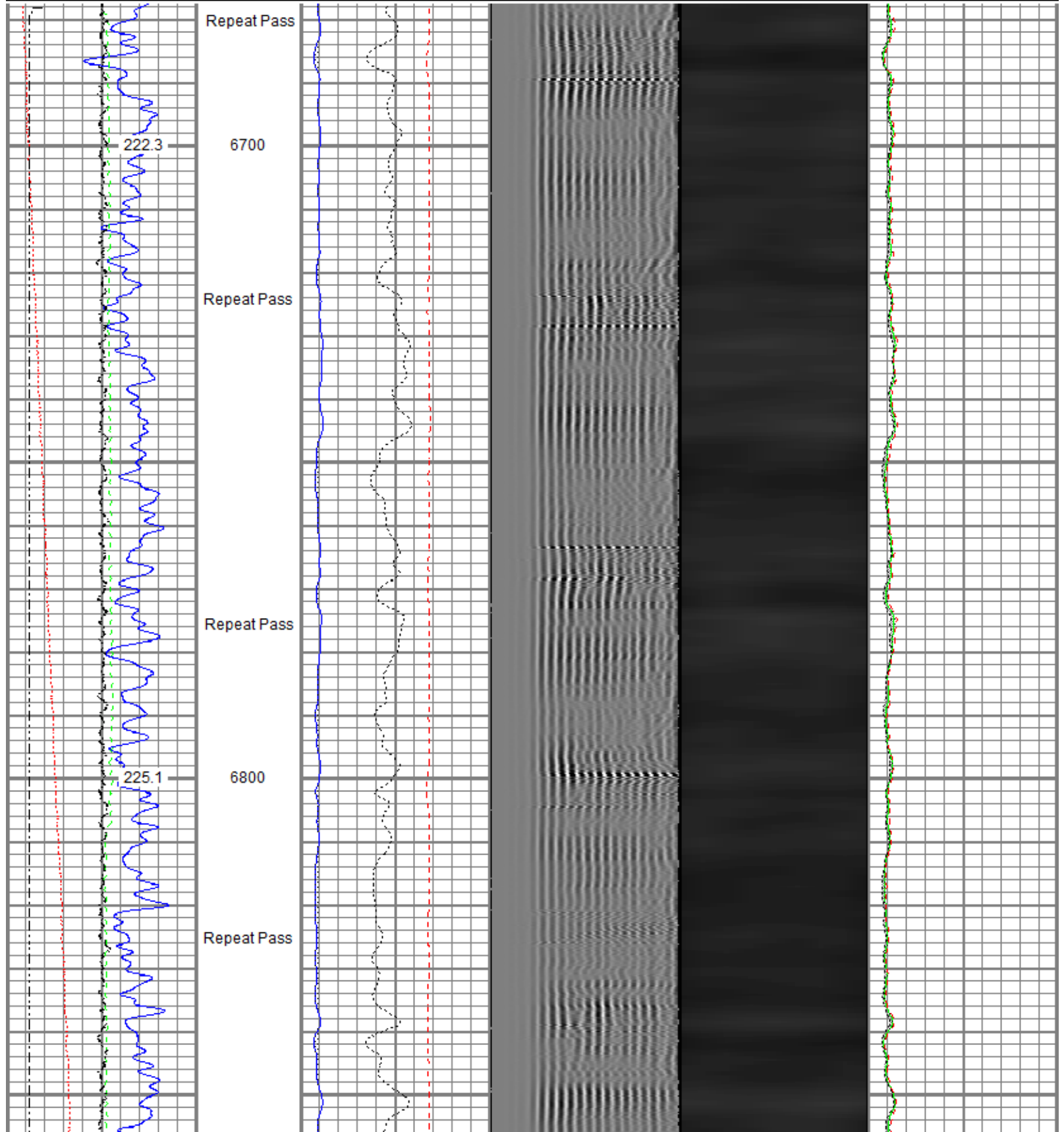


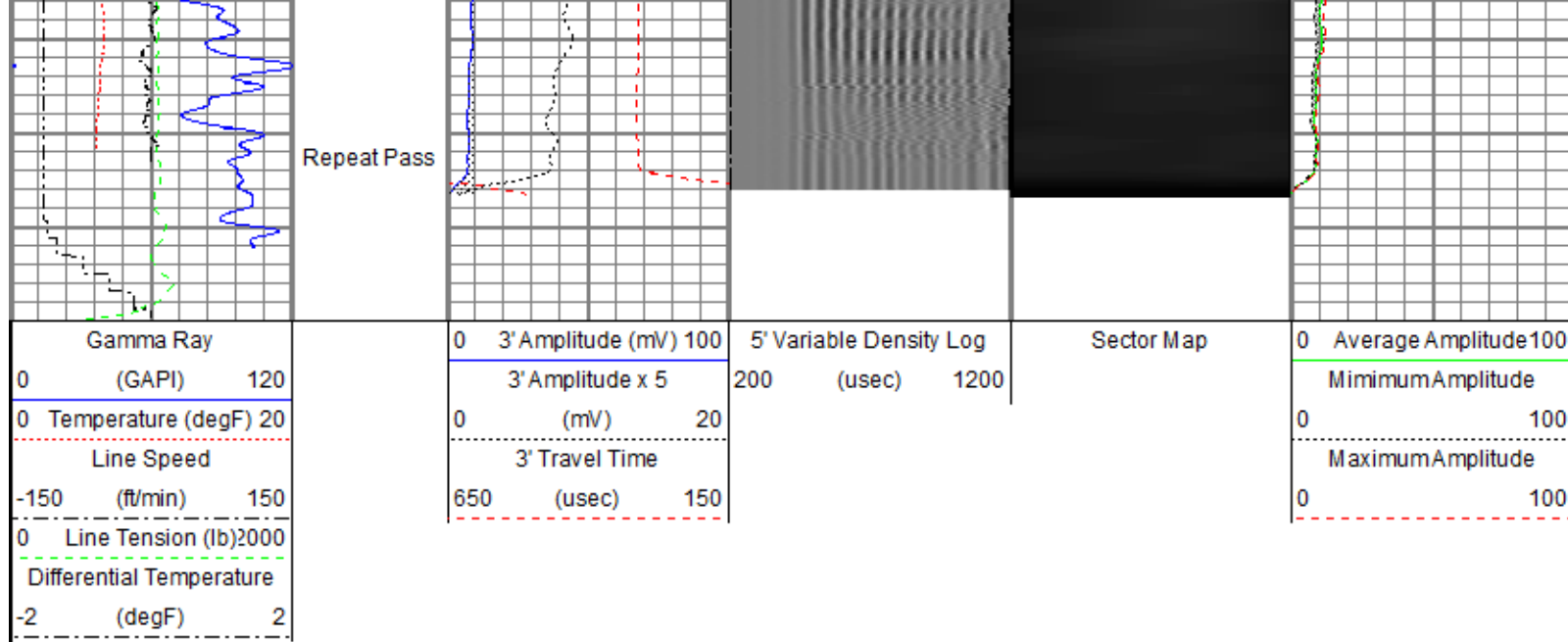
Repeat Pass

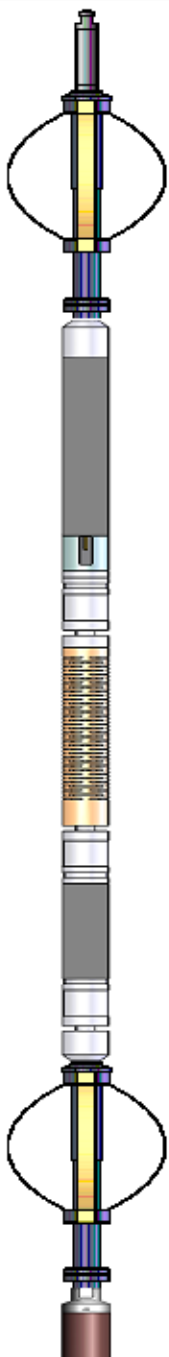
Recorded With 2800 PSI Surface Induced Pressure

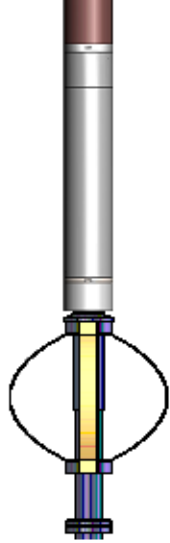
Database File anadarko_castle pines 19-12hz\0512347715_anadarko_castle pines 19-12hz_rbl_03-17-19_2800 psi.db
 Dataset Pathname Repeat.2
 Presentation Format ros_radii
 Dataset Creation Mon Mar 18 13:06:35 2019

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
0 (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					





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	17.04		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
			Probe Radii-2750 RBT (FW1308-091) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
WVFS8	14.81					
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					
CC152	6.80					

CCL\$2	6.80		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	
CCL\$1	6.80						
GR	5.46						
		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer		2.88	2.75	20.00	
Dataset: 0512347715_anadarko_castle pines 19-12hz_rbl_03-17-19_2800 psi.db: field/well/run1/Main.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_castle pines 19-12hz\0512347715_anadarko_castle pines 19-12hz_rbl_03-17-19_2800 p
Dataset Pathname	Main.2
Dataset Creation	Mon Mar 18 13:00:04 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:	0.000	ft

Master Calibration, performed Sun Mar 17 06:26:27 2019:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.637	0.800	71.921	111.968	0.603
CAL	0.727	0.723				
5'	0.001	0.500	0.800	71.921	142.686	0.589
SUM						
S1	0.002	0.631	0.000	100.000	158.967	-0.353
S2	0.001	0.645	0.000	100.000	155.507	-0.224
S3	0.002	0.657	0.000	100.000	152.731	-0.349
S4	0.002	0.652	0.000	100.000	153.902	-0.282
S5	0.002	0.680	0.000	100.000	147.403	-0.301
S6	0.002	0.688	0.000	100.000	145.770	-0.341
S7	0.002	0.655	0.000	100.000	153.144	-0.311
S8	0.002	0.641	0.000	100.000	156.537	-0.374

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.727	0.723	1.000	0.000

Air Zero Calibration, performed Sun Mar 17 06:26:46 2019:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.007		0.000		-0.000	
5'	0.007		0.000		0.001	
SUM						
S1	0.003		0.000		0.000	
S2	0.008		0.000		-0.001	
S3	0.006		0.000		0.000	
S4	0.007		0.000		-0.000	
S5	0.007		0.000		0.000	
S6	0.007		0.000		0.000	
S7	0.007		0.000		-0.000	
S8	0.006		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	



Company	Kerr-McGee Oil & Gas Onshore, L.P.
Well	Castle Pines 19-12HZ
Field	Wattenberg
County	Weld
State	Colorado