

County	Weld	State	Colorado
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[illegible]

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 Marker Joint from Casing Tally at 6965 FT
Adjusted -6 FT to correlate with Marker Joint
Log Ran From 7110 To Surface
Log ran with 2800 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations

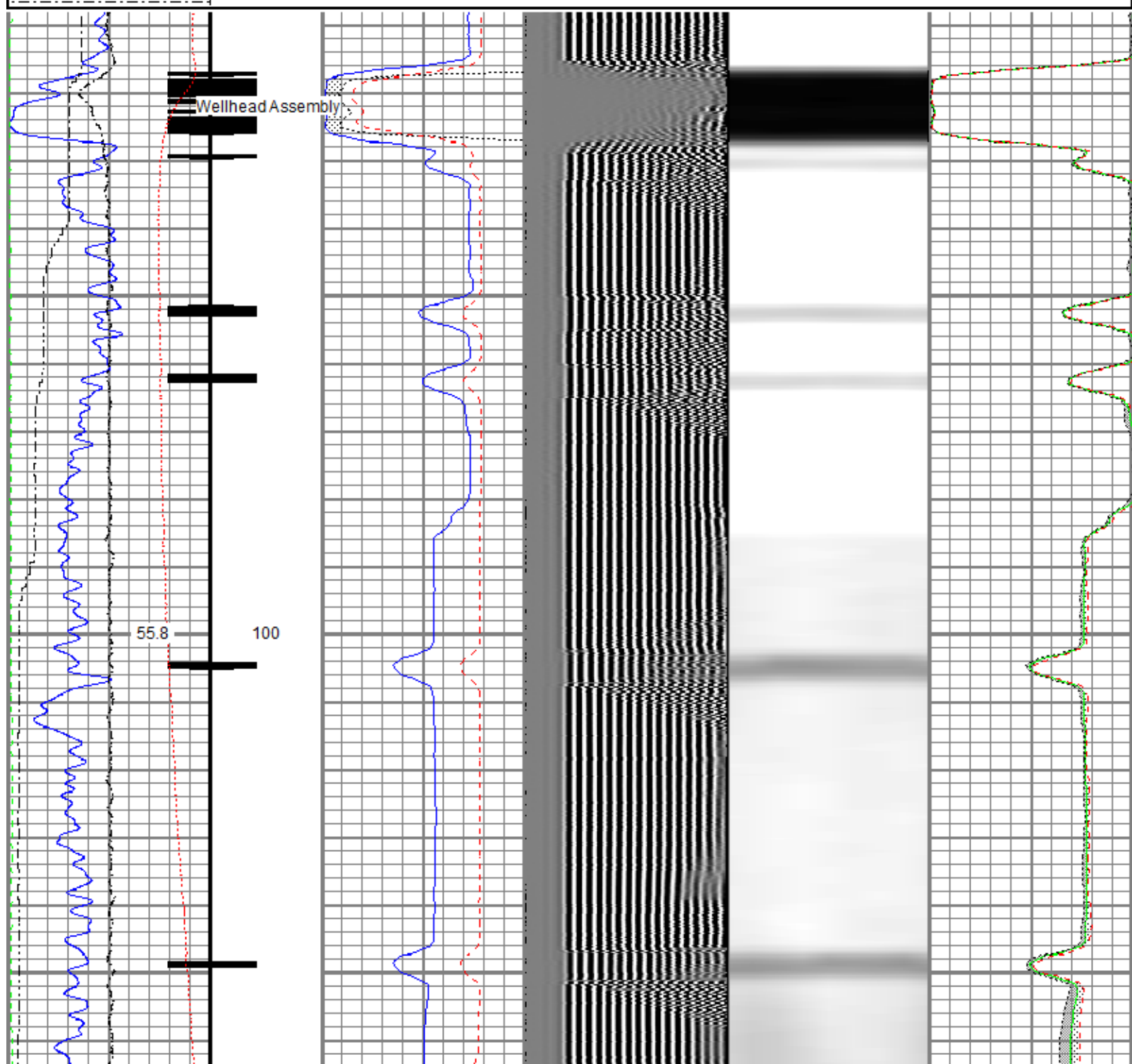
Thank you for choosing Reliance Oilfield Services, LLC!!

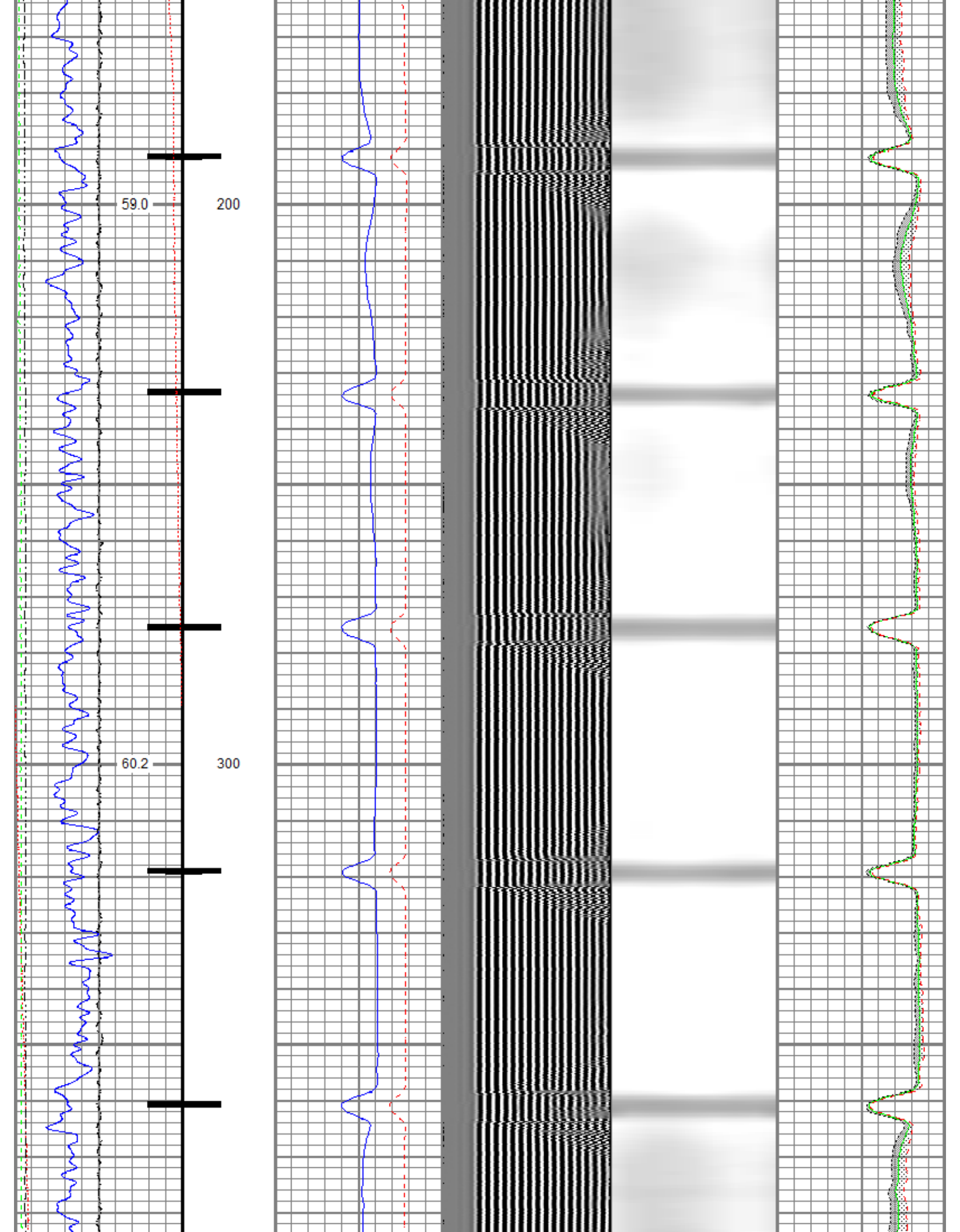


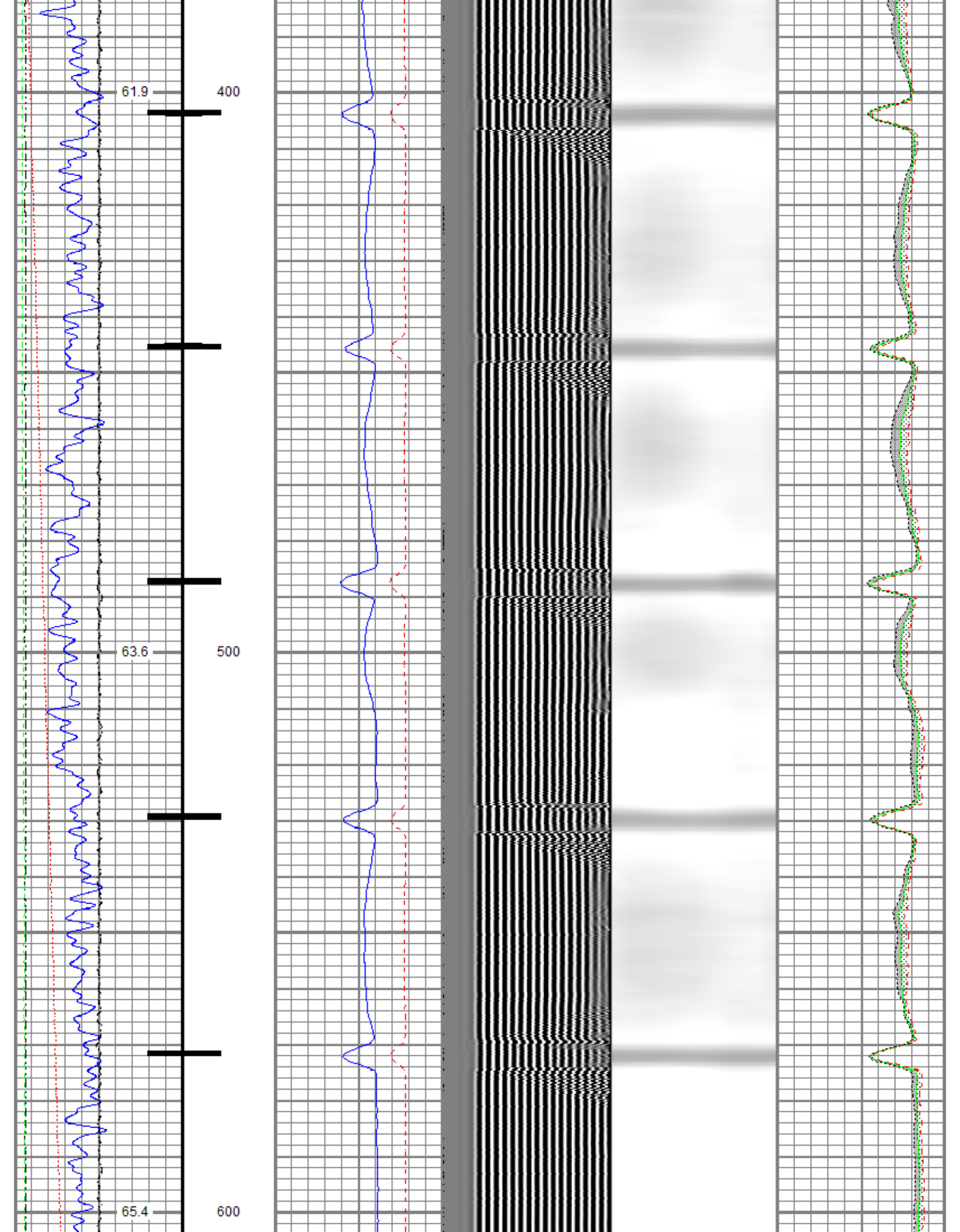
Recorded With 2800 PSI Surface Induced Pressure

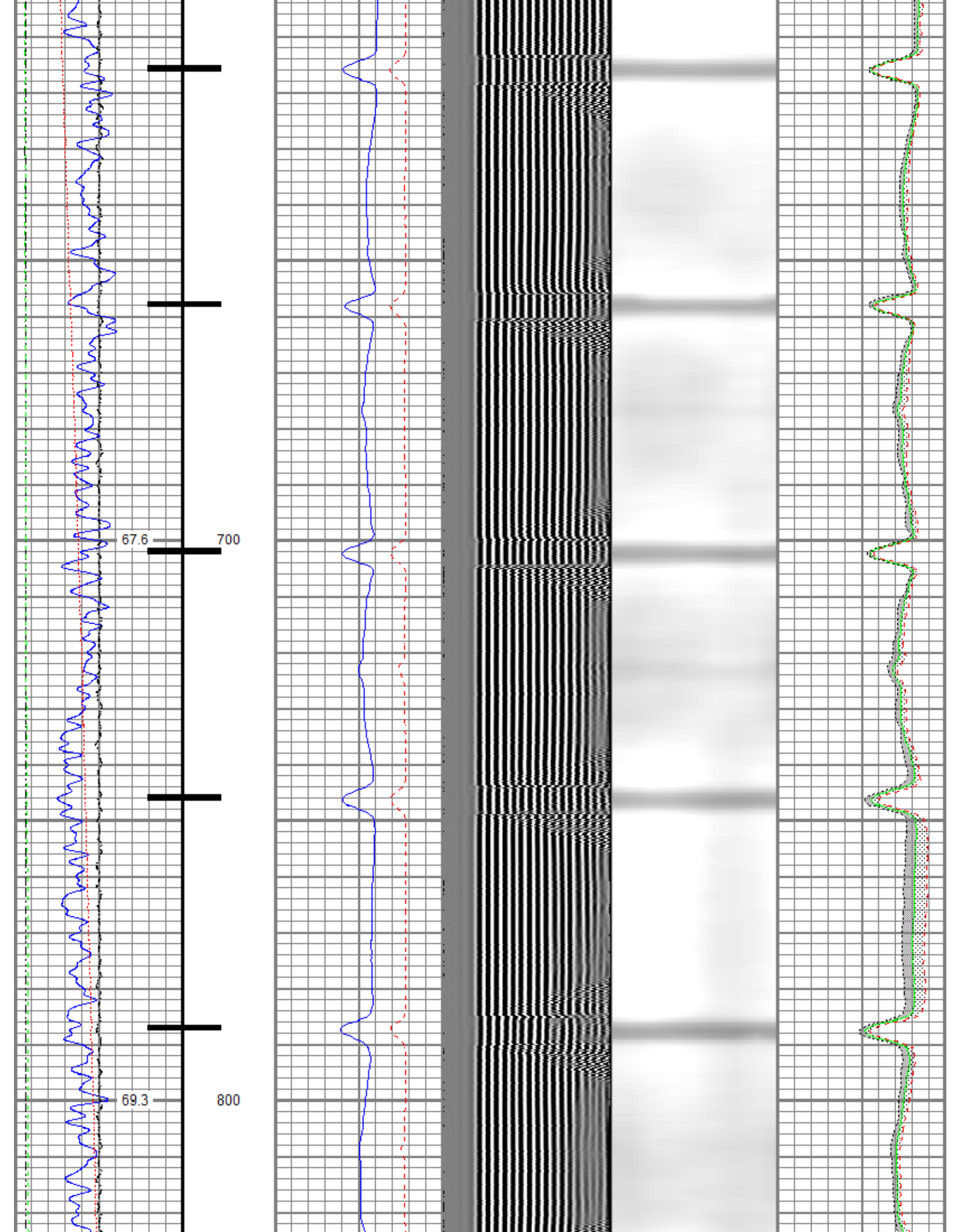
Database File anadarko_papa jo 2-25 36n-17hz\0512345496_anadarko_papa jo 2-25 36n-17hz_rbl_03-31-18_2800 psi.db
 Dataset Pathname pass4.2
 Presentation Format ros_radri
 Dataset Creation Sun Apr 01 14:54:51 2018
 Charted by Depth in Feet scaled 1:240

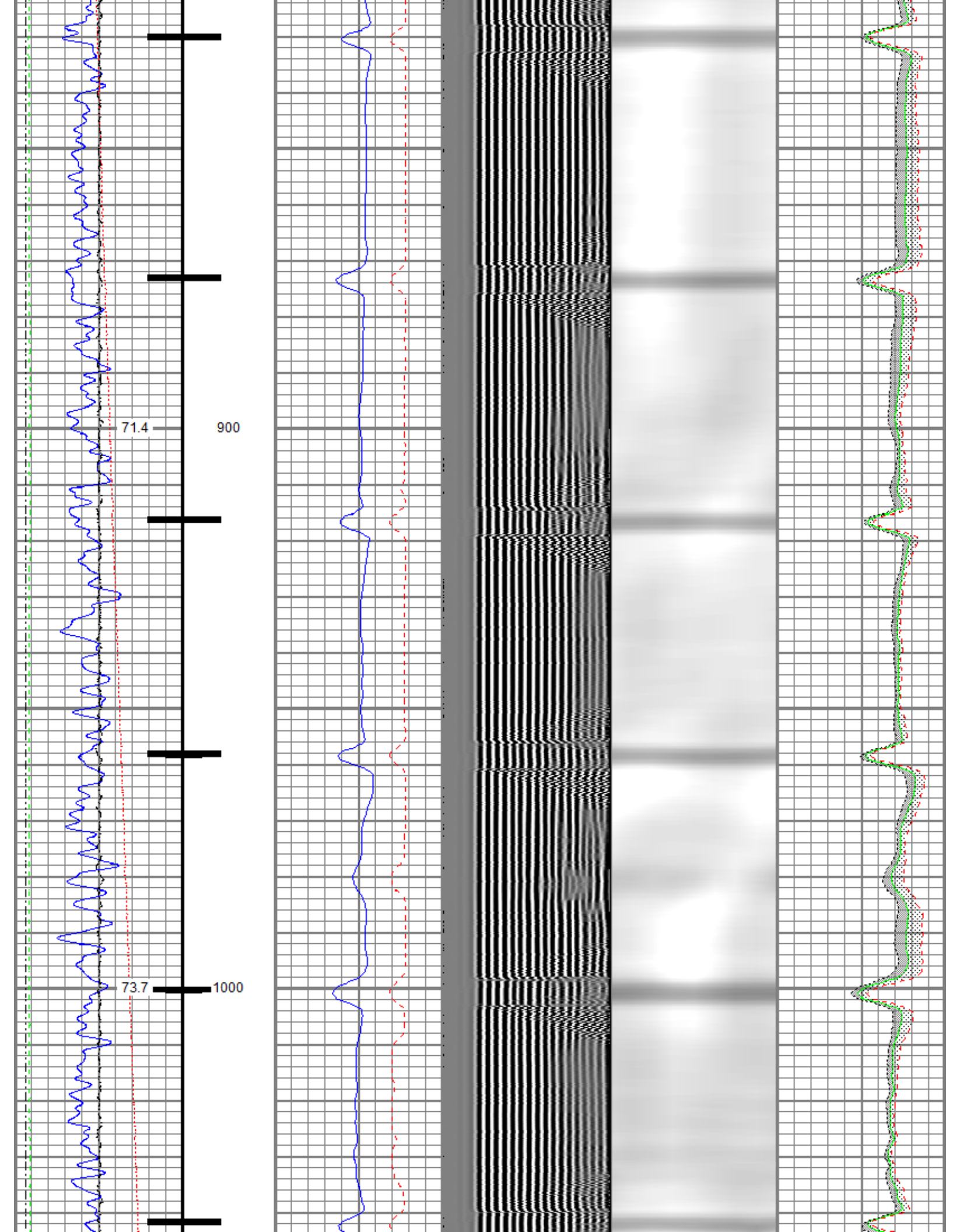
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min) 150				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

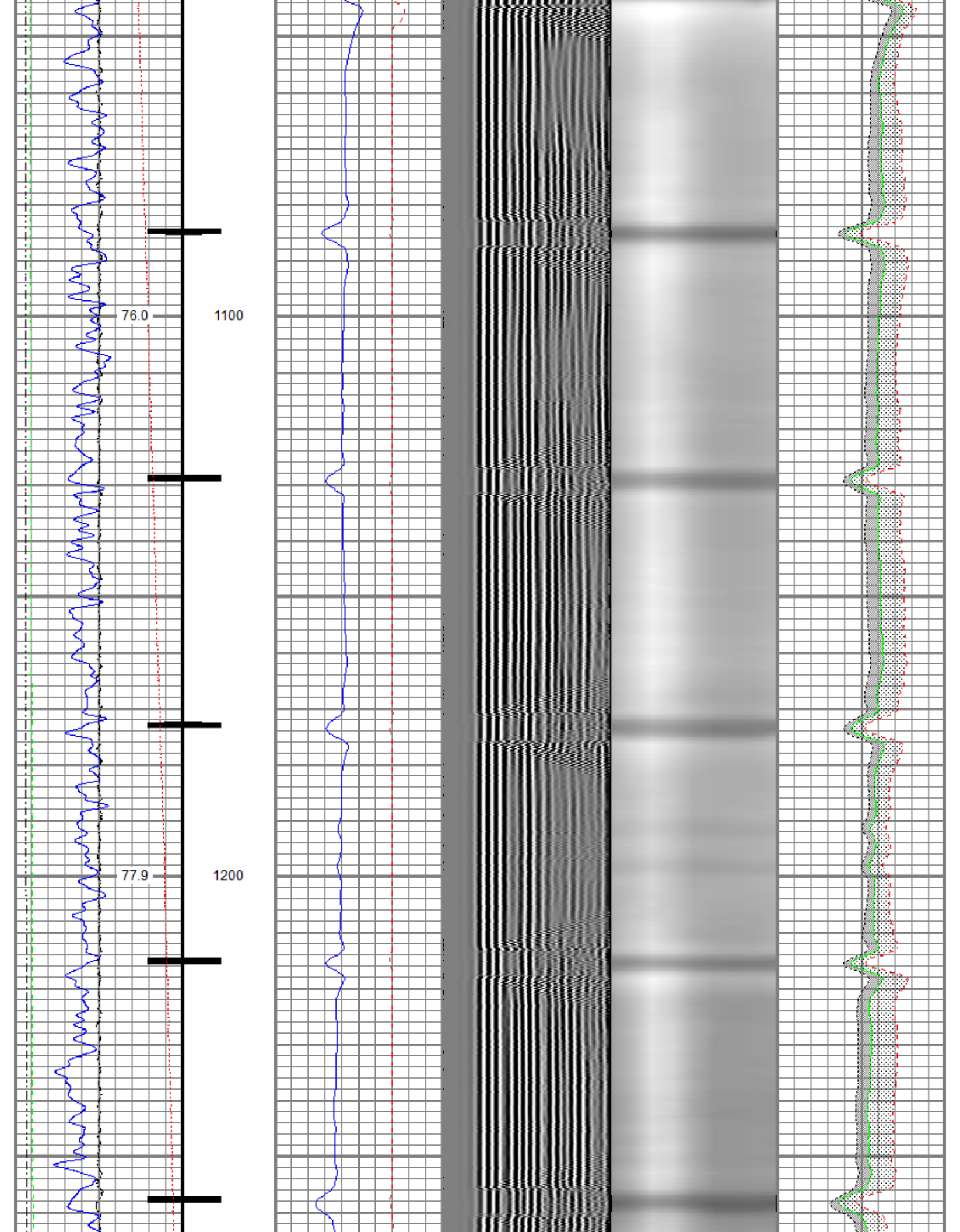


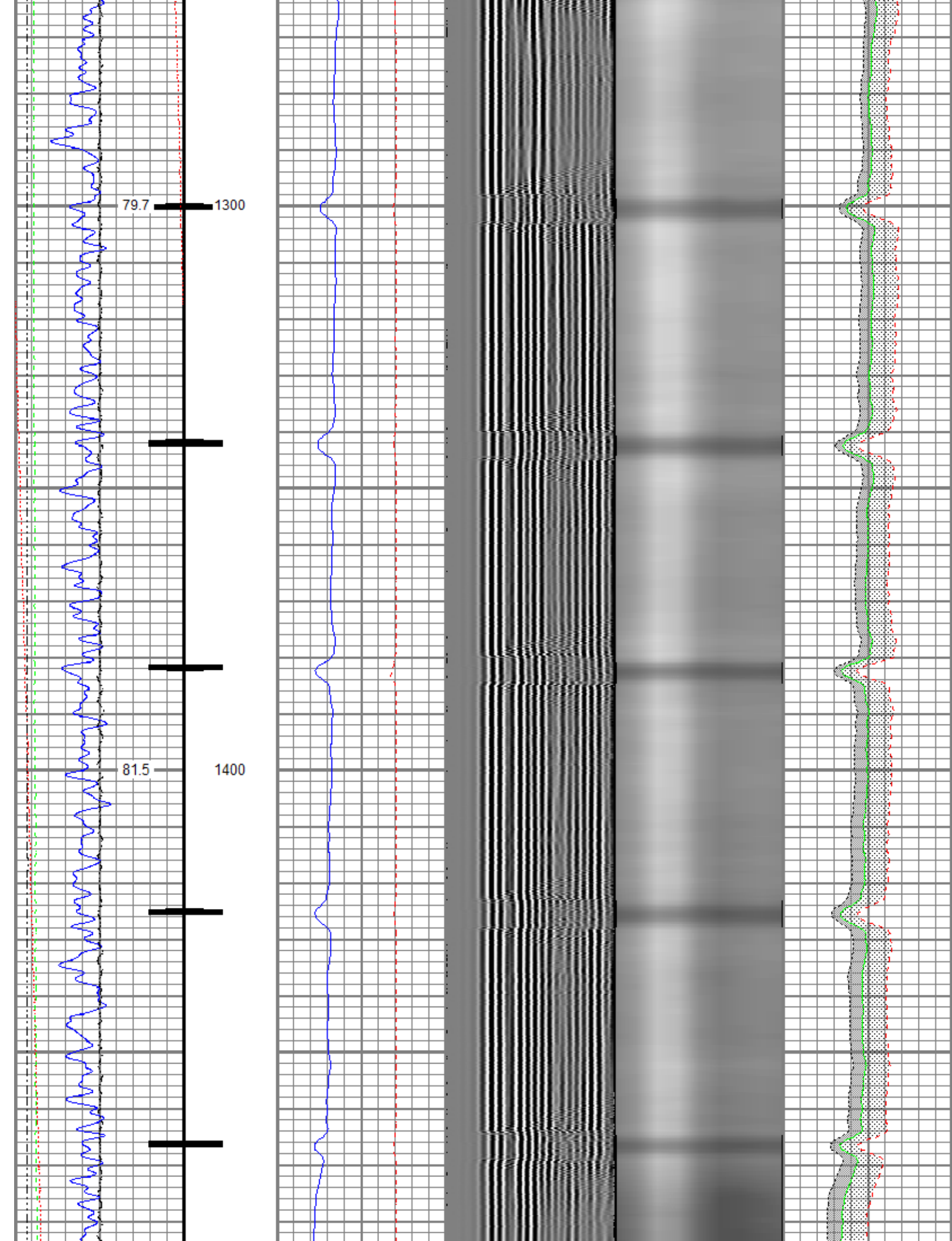


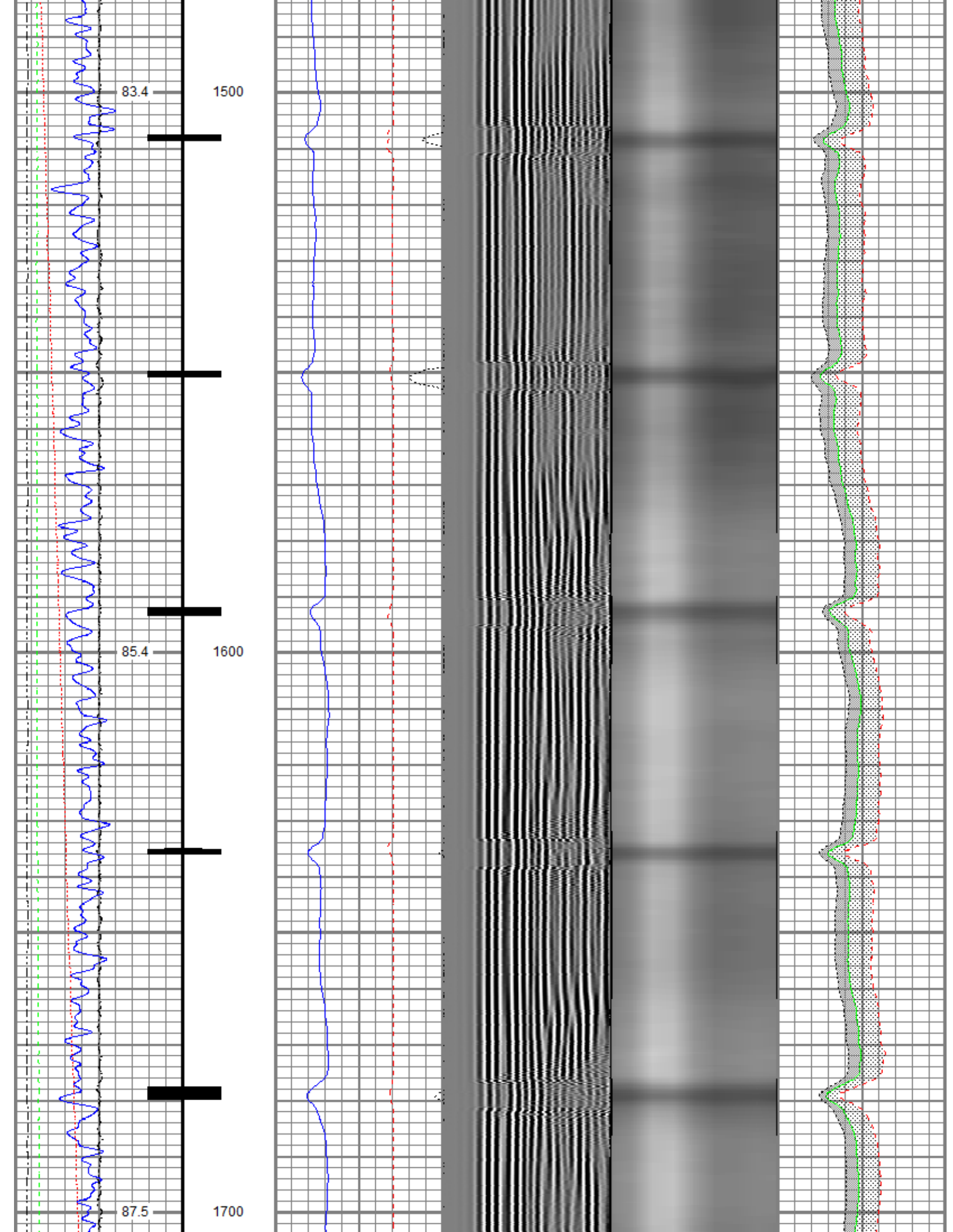


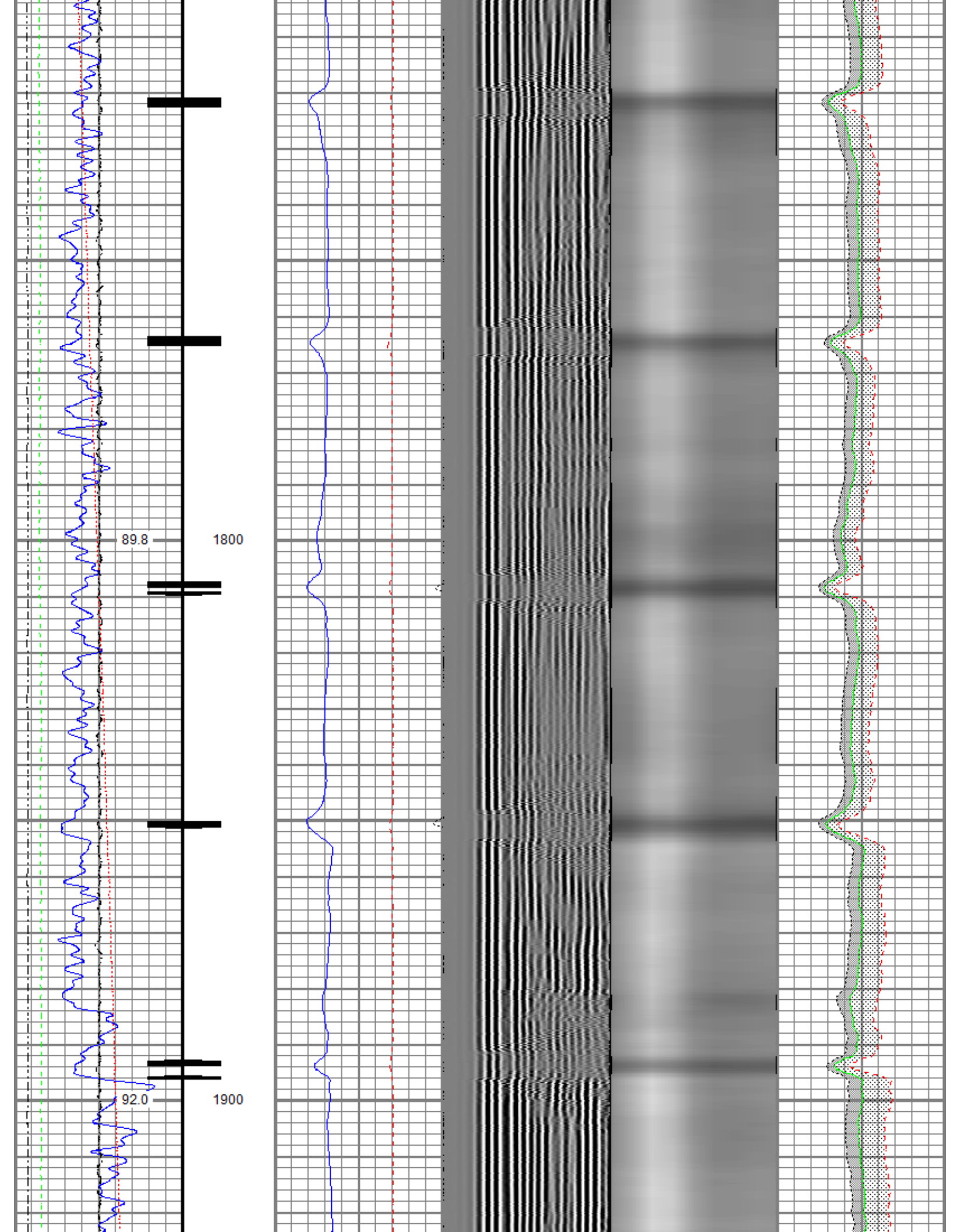


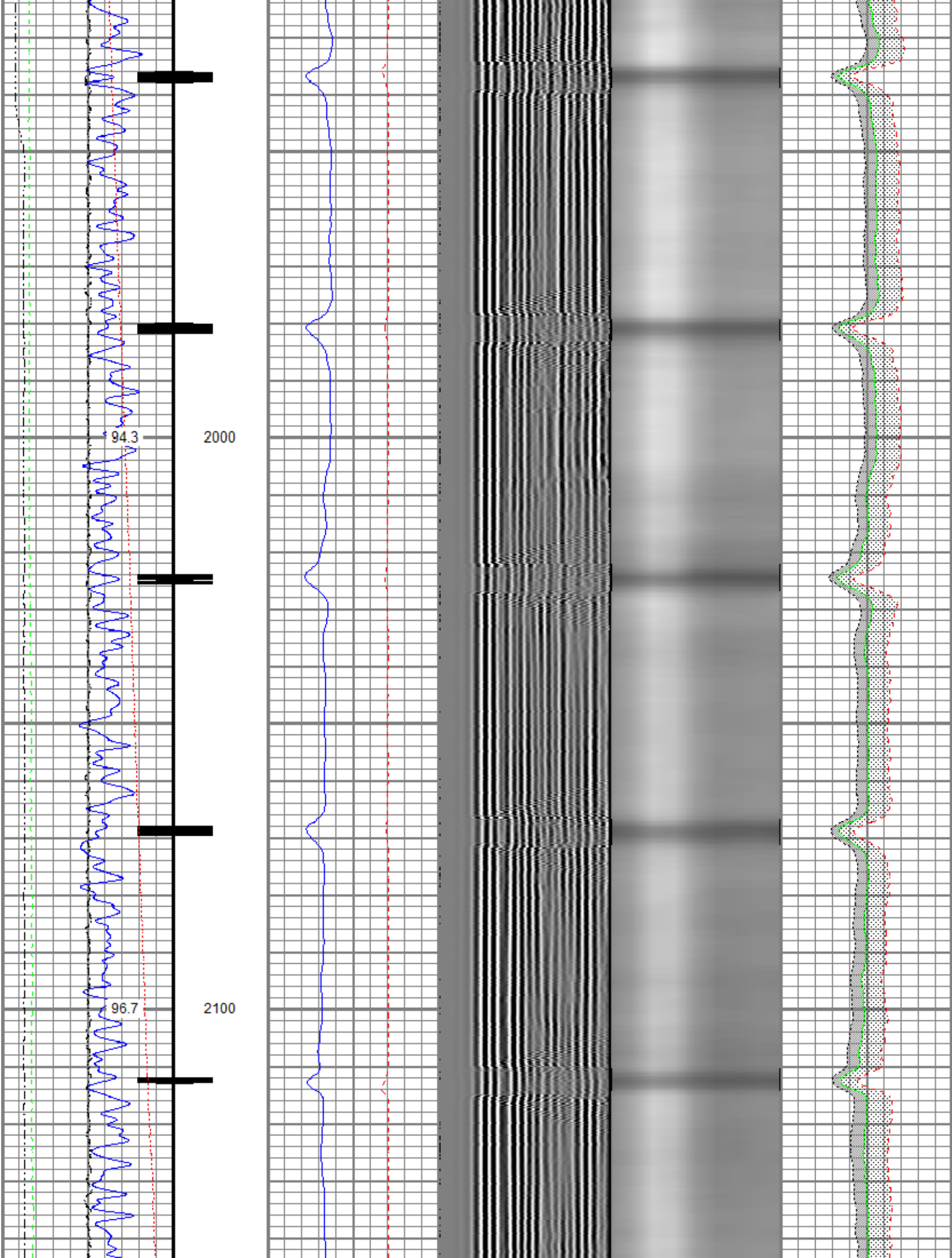


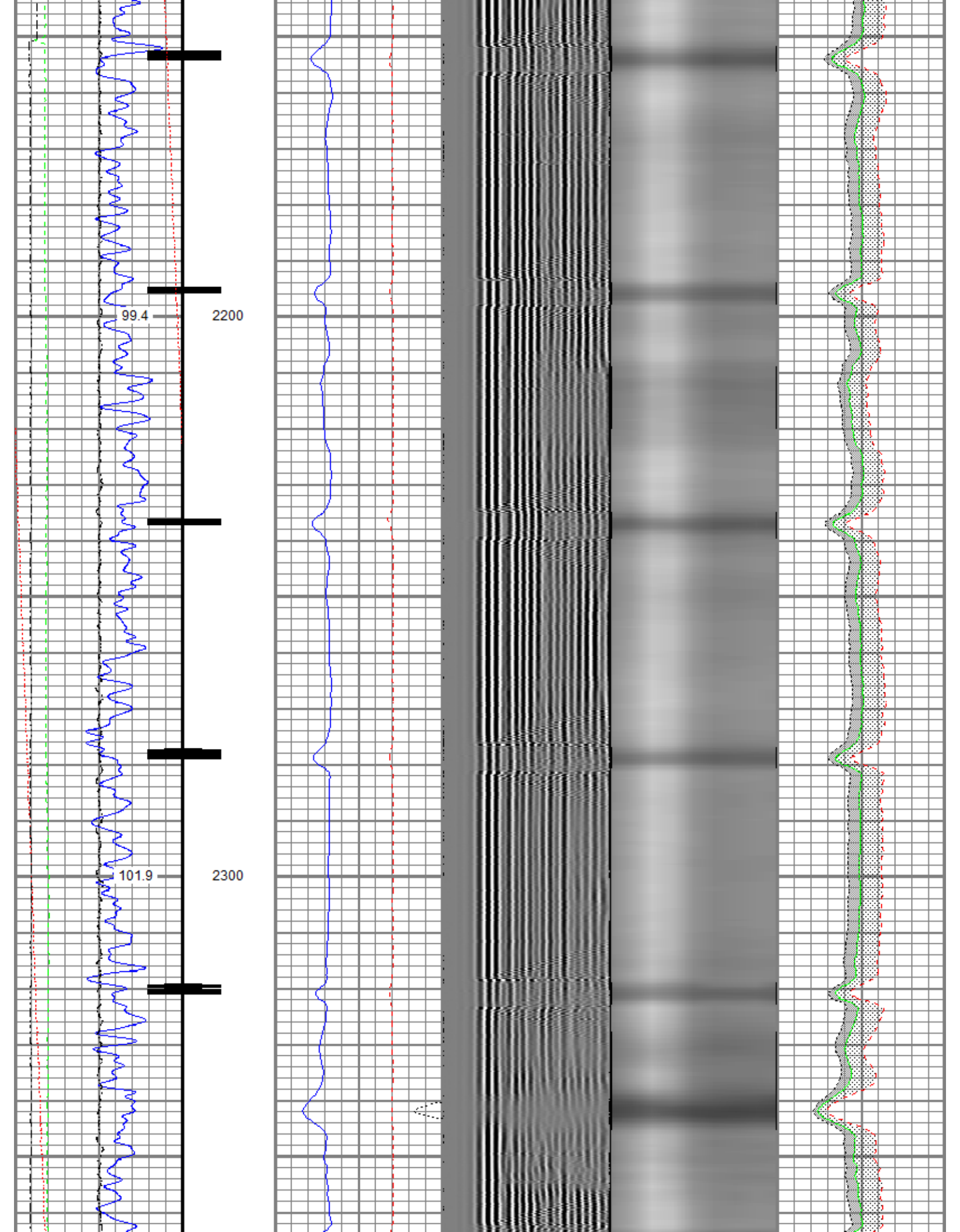


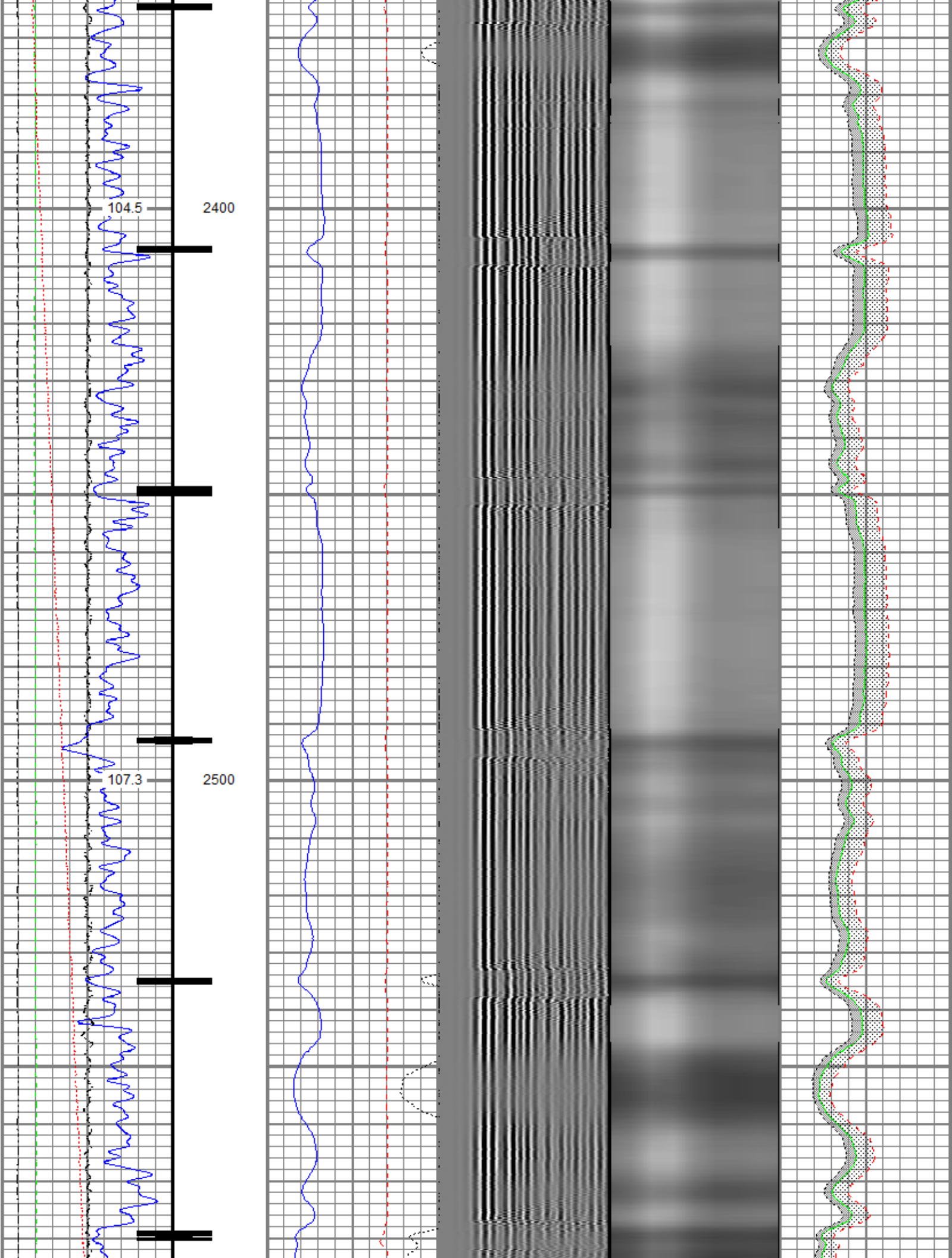


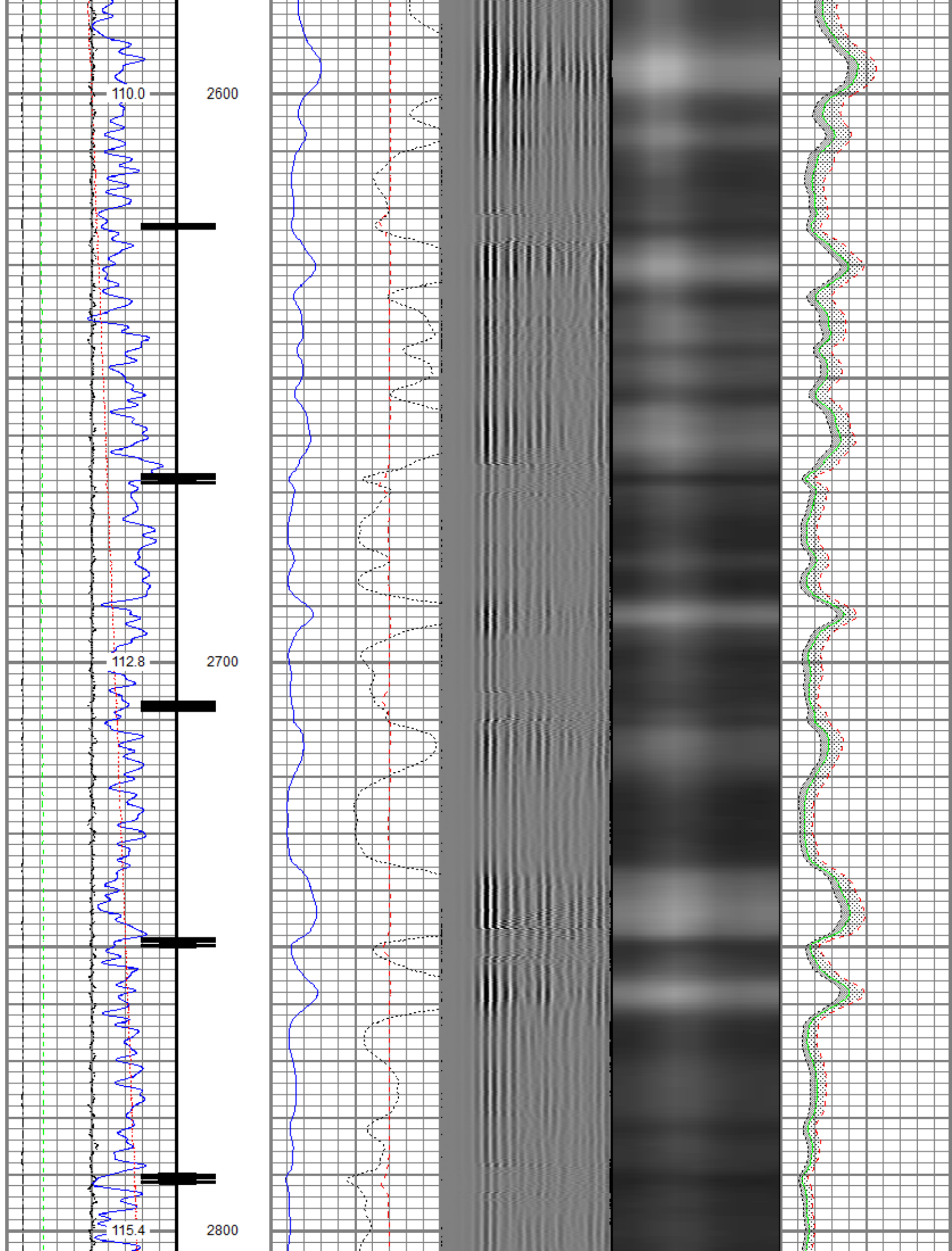


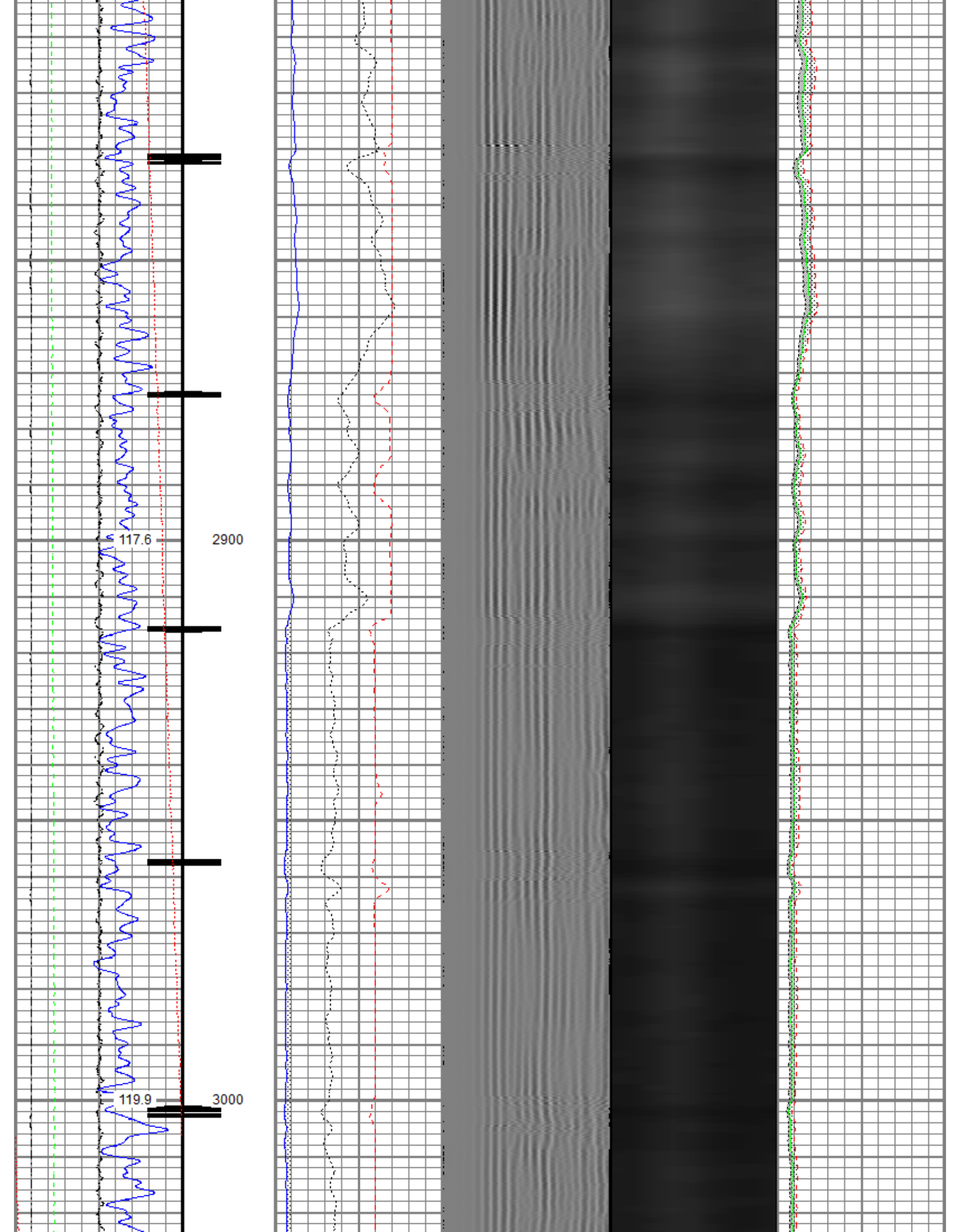


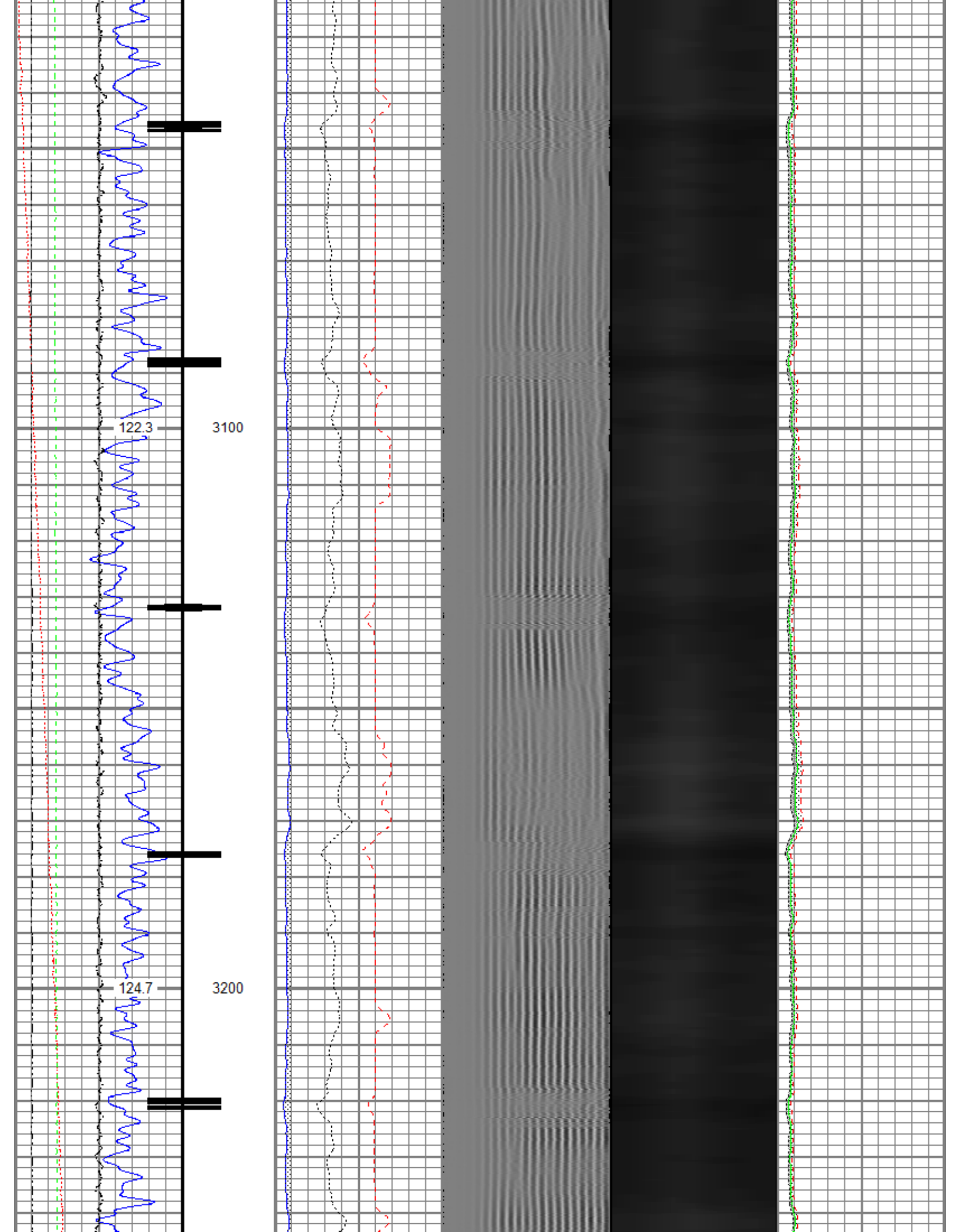


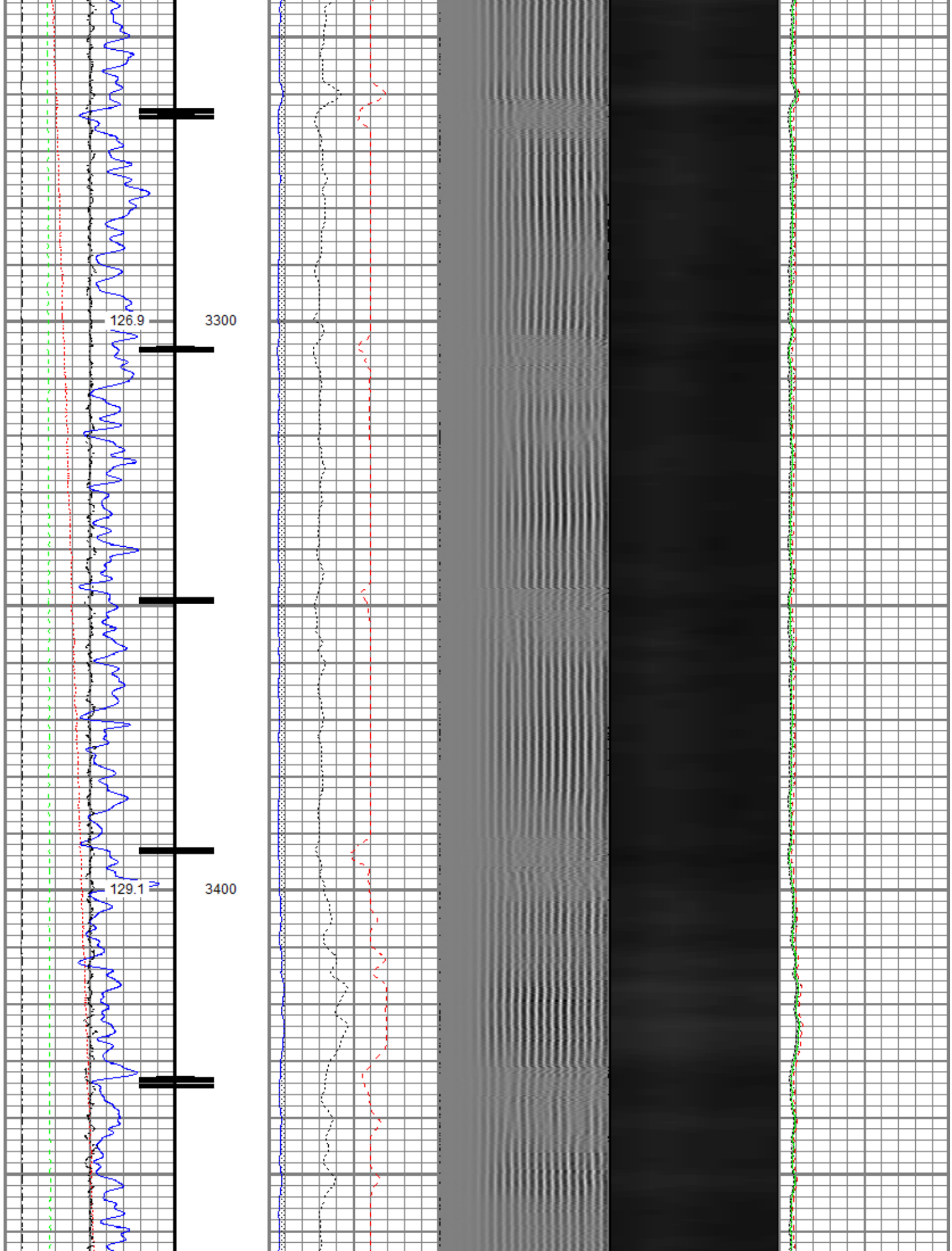


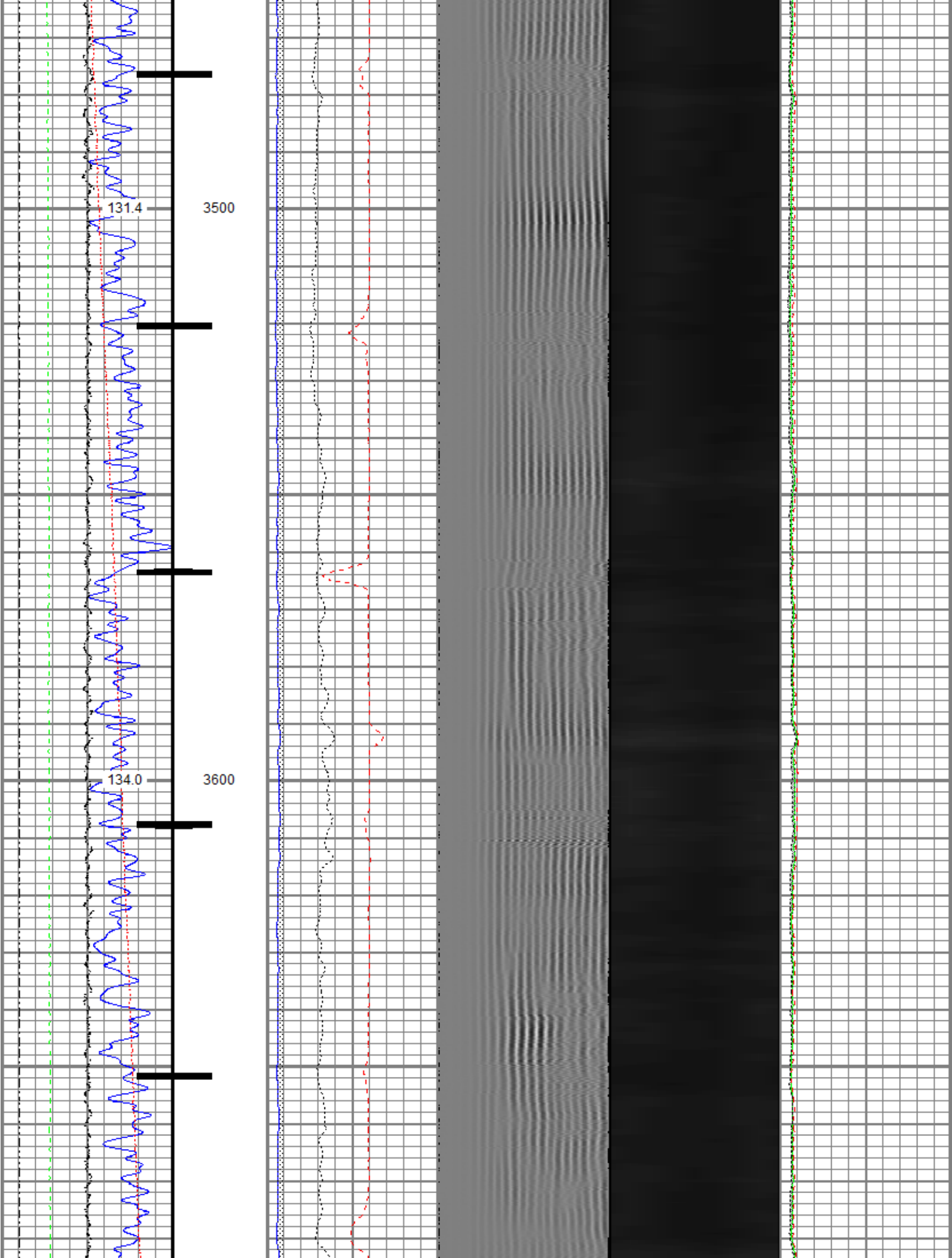


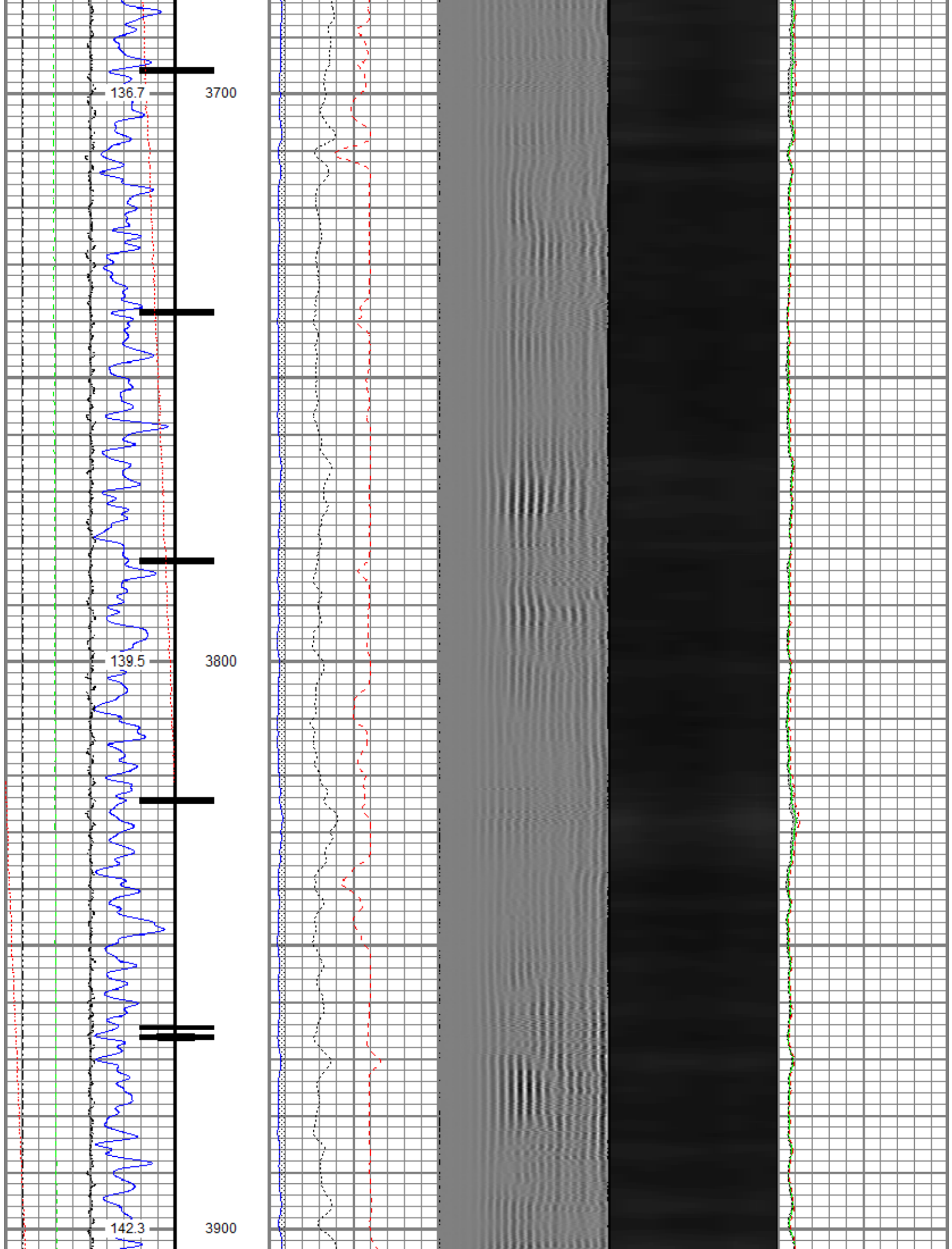


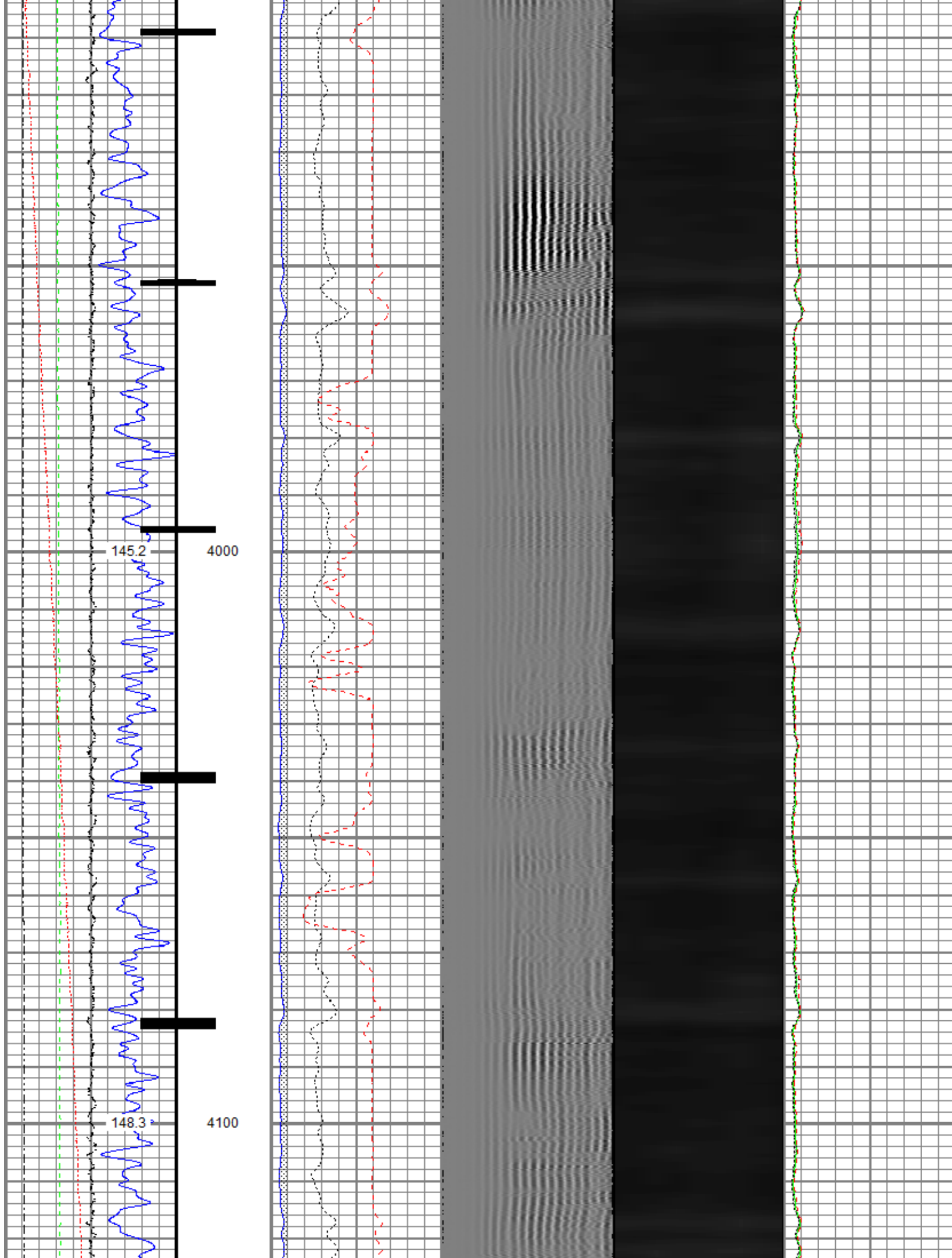


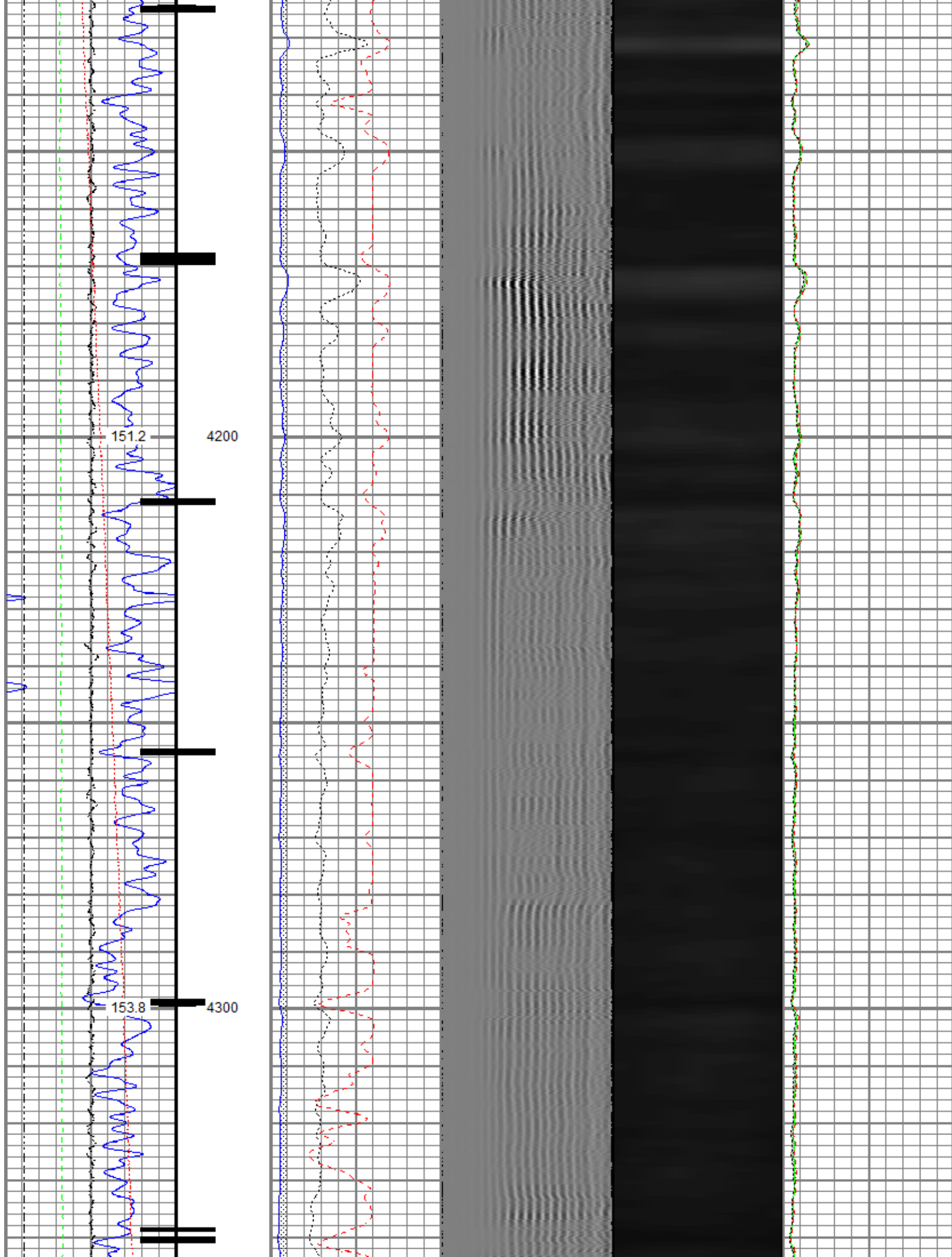


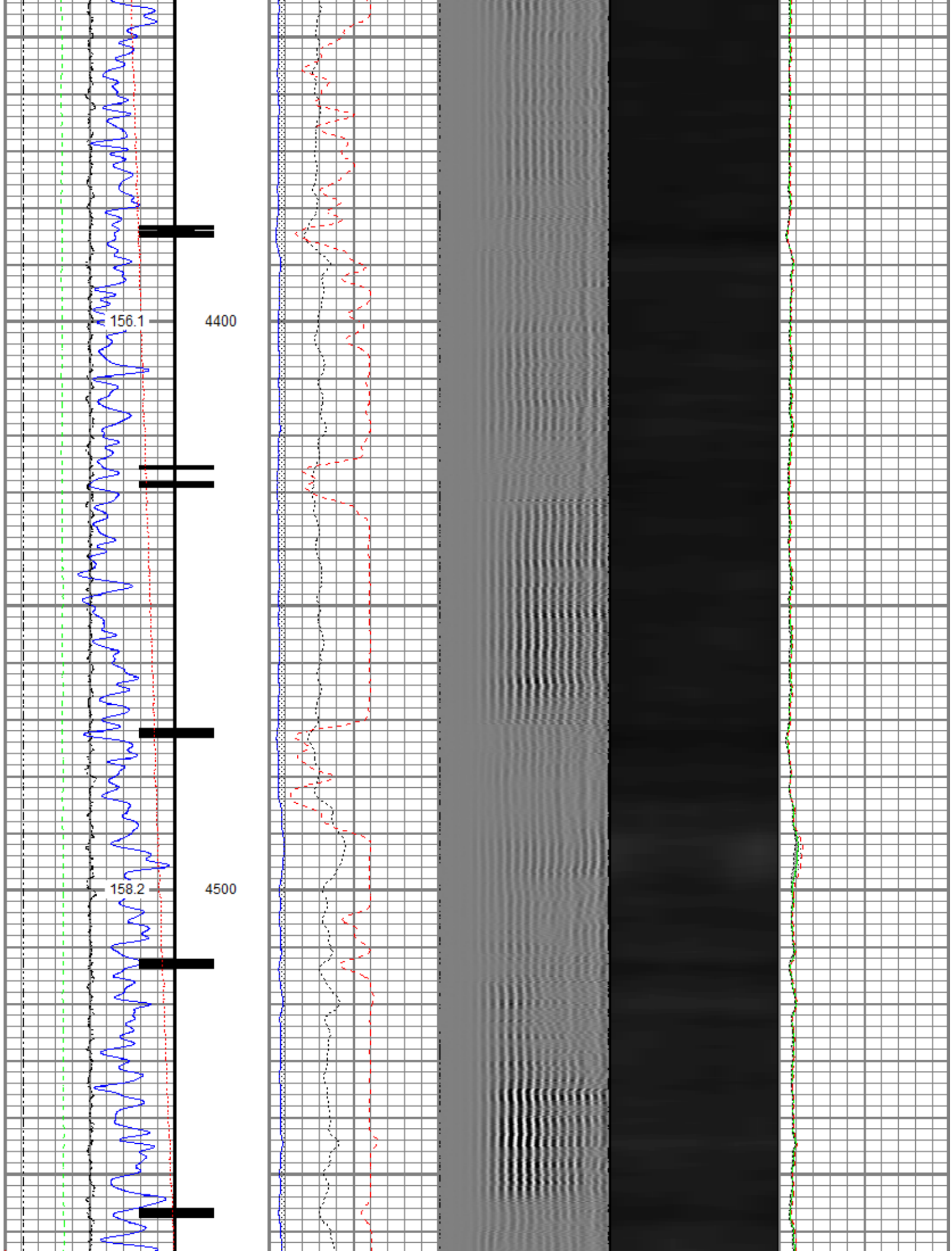


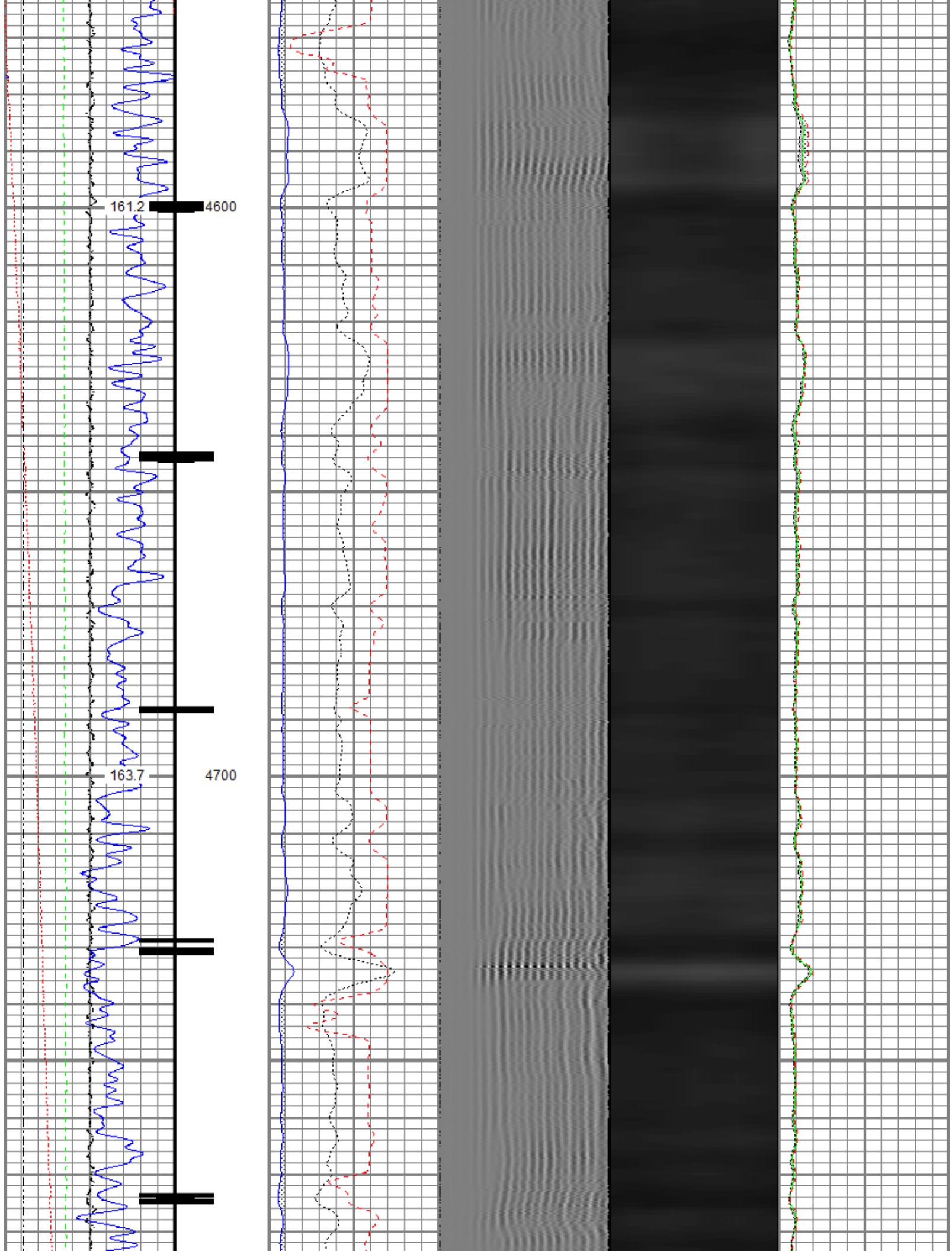


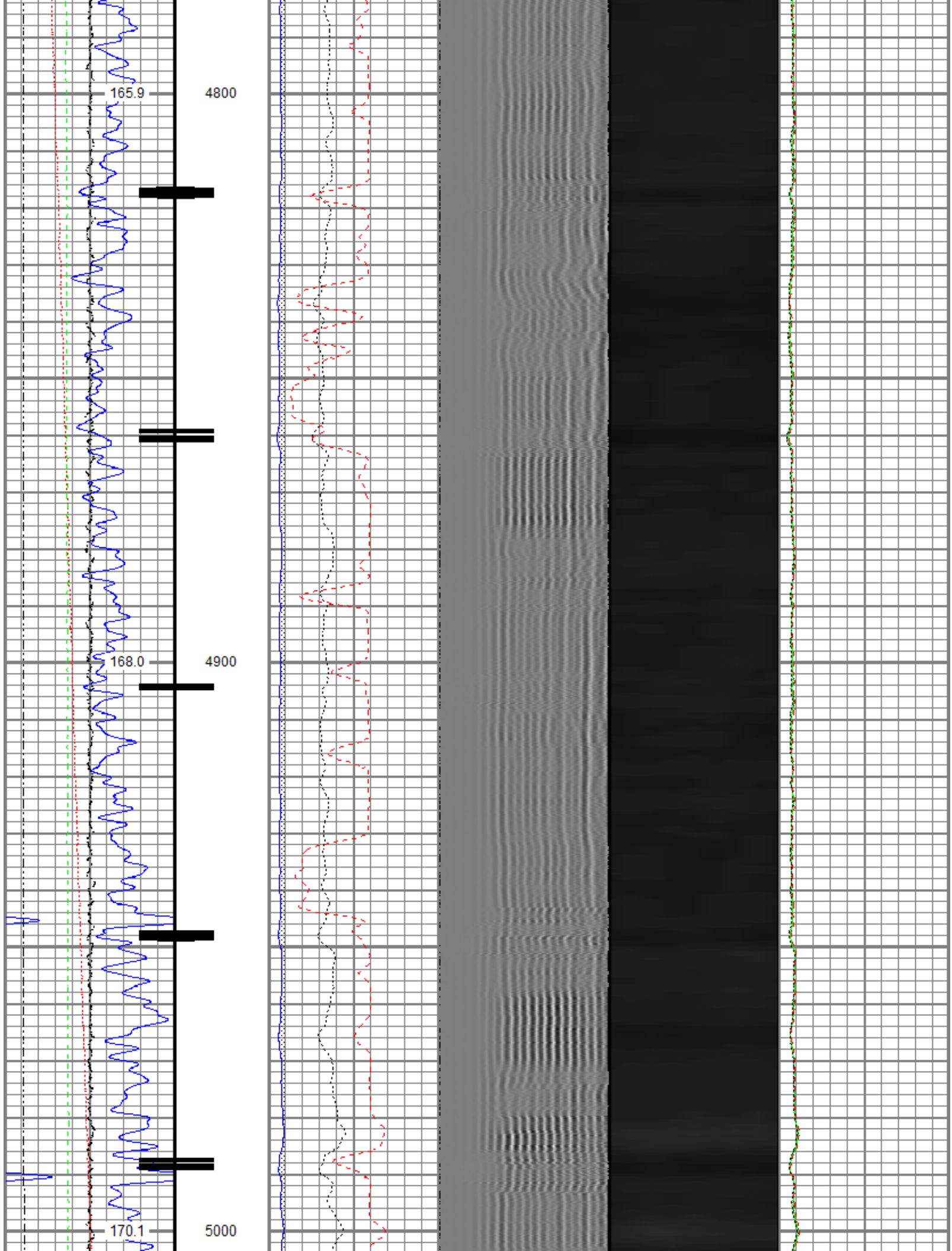


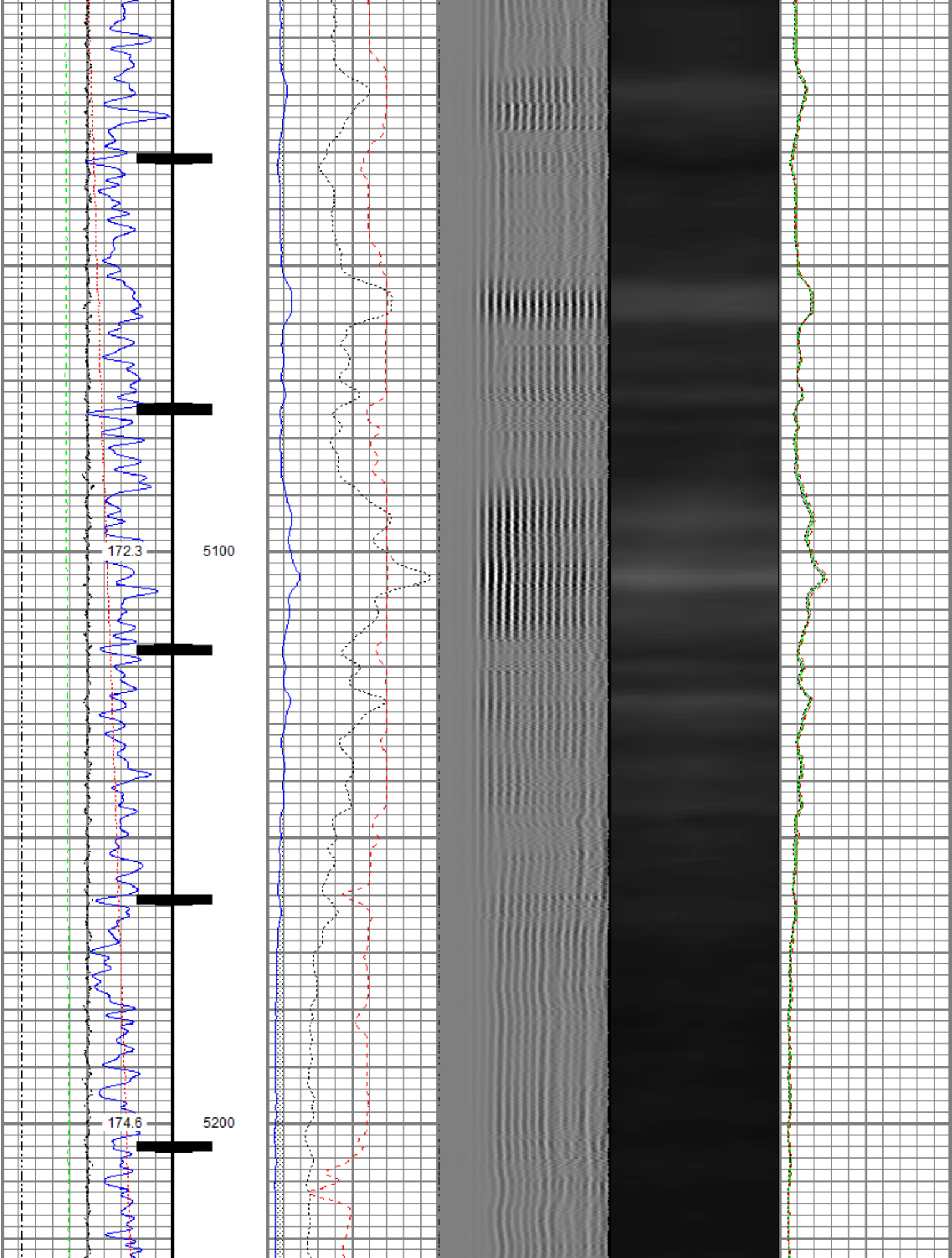


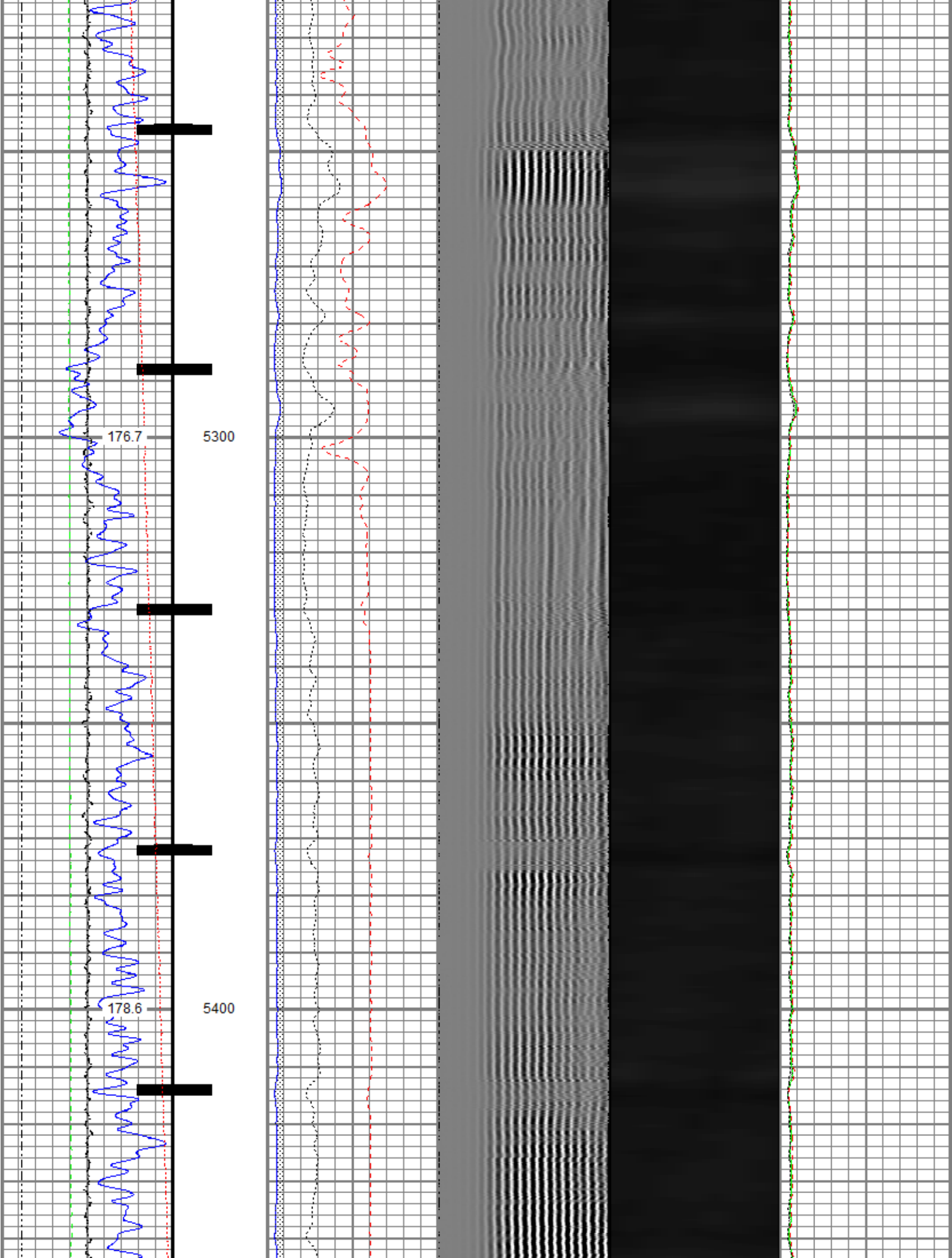


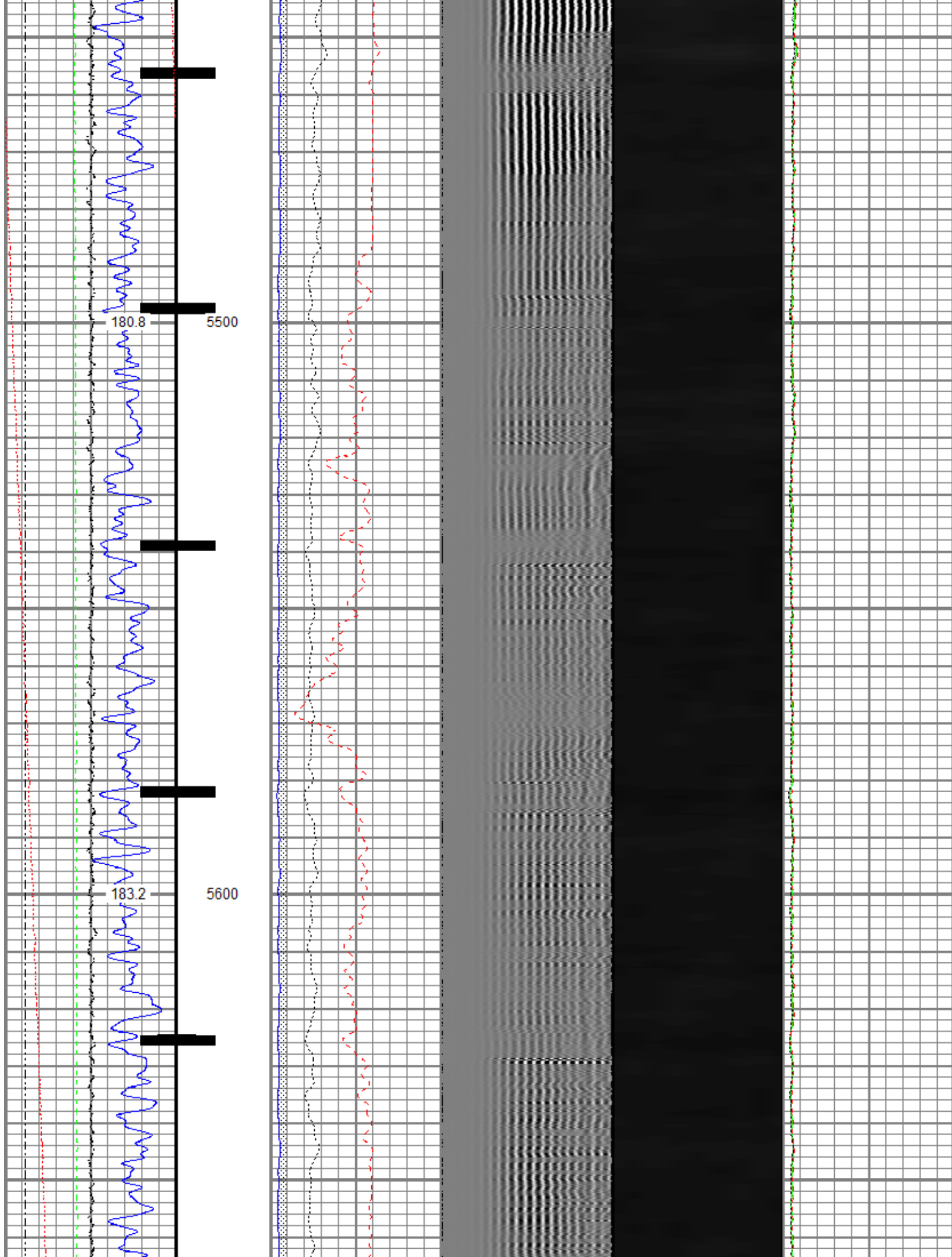


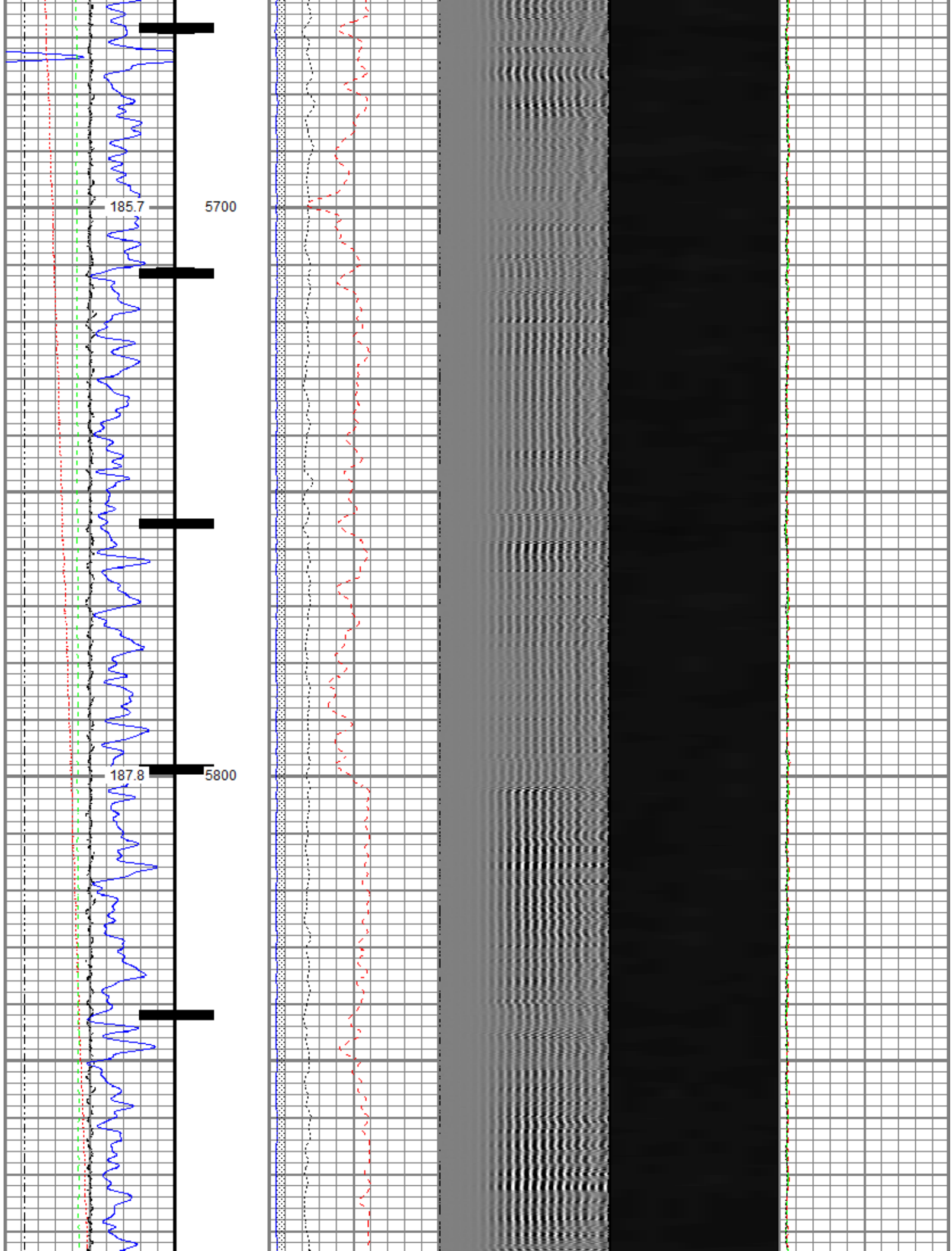


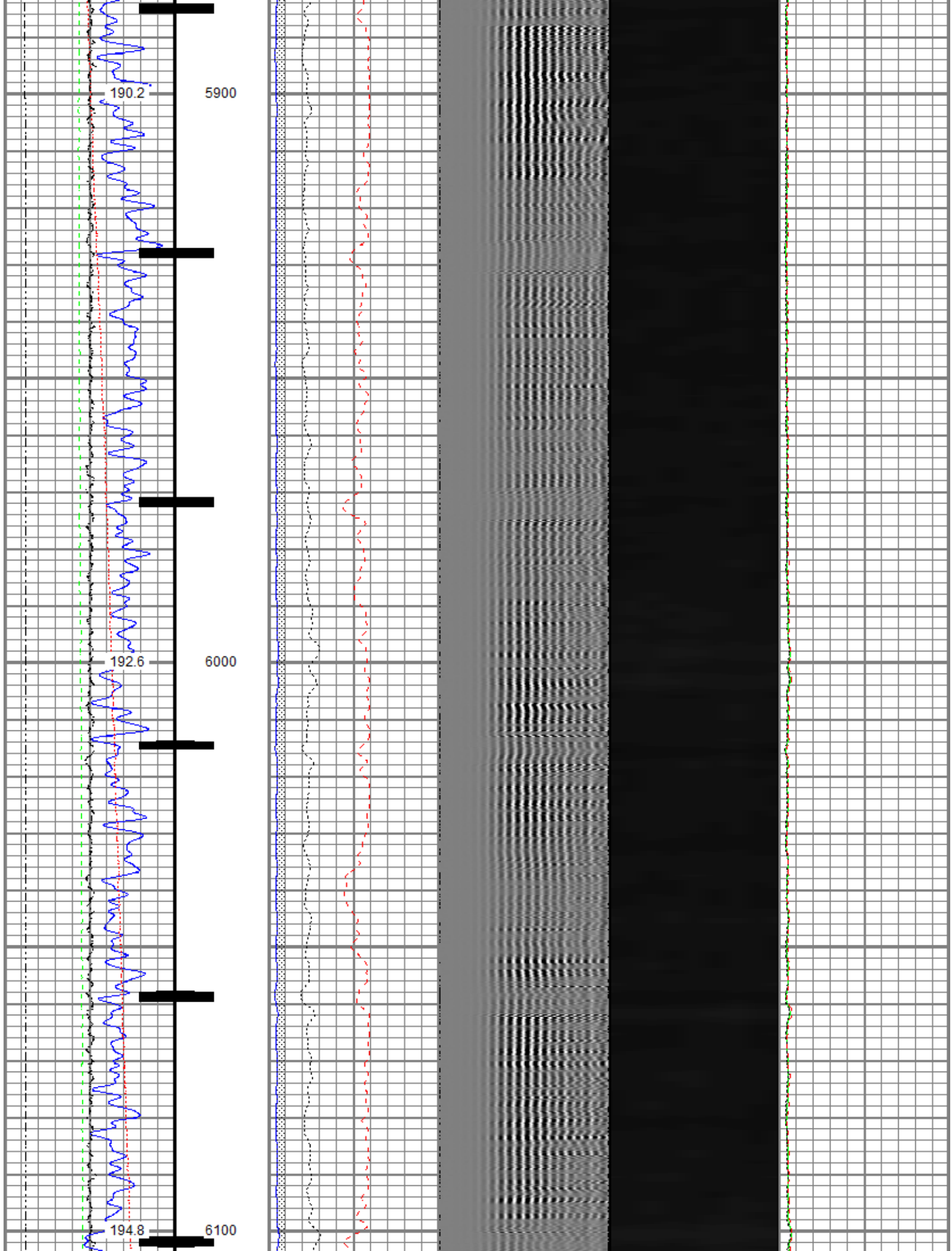


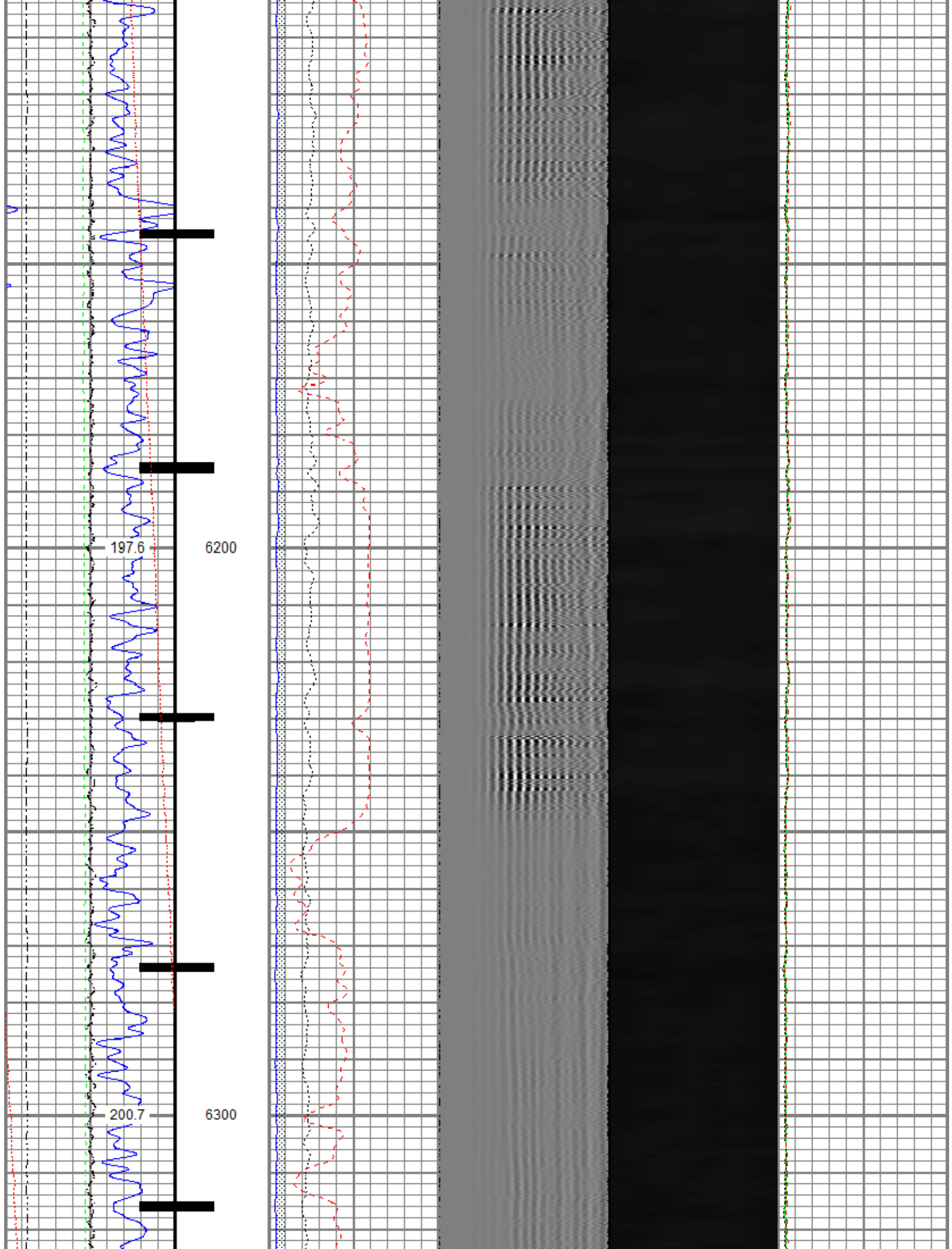


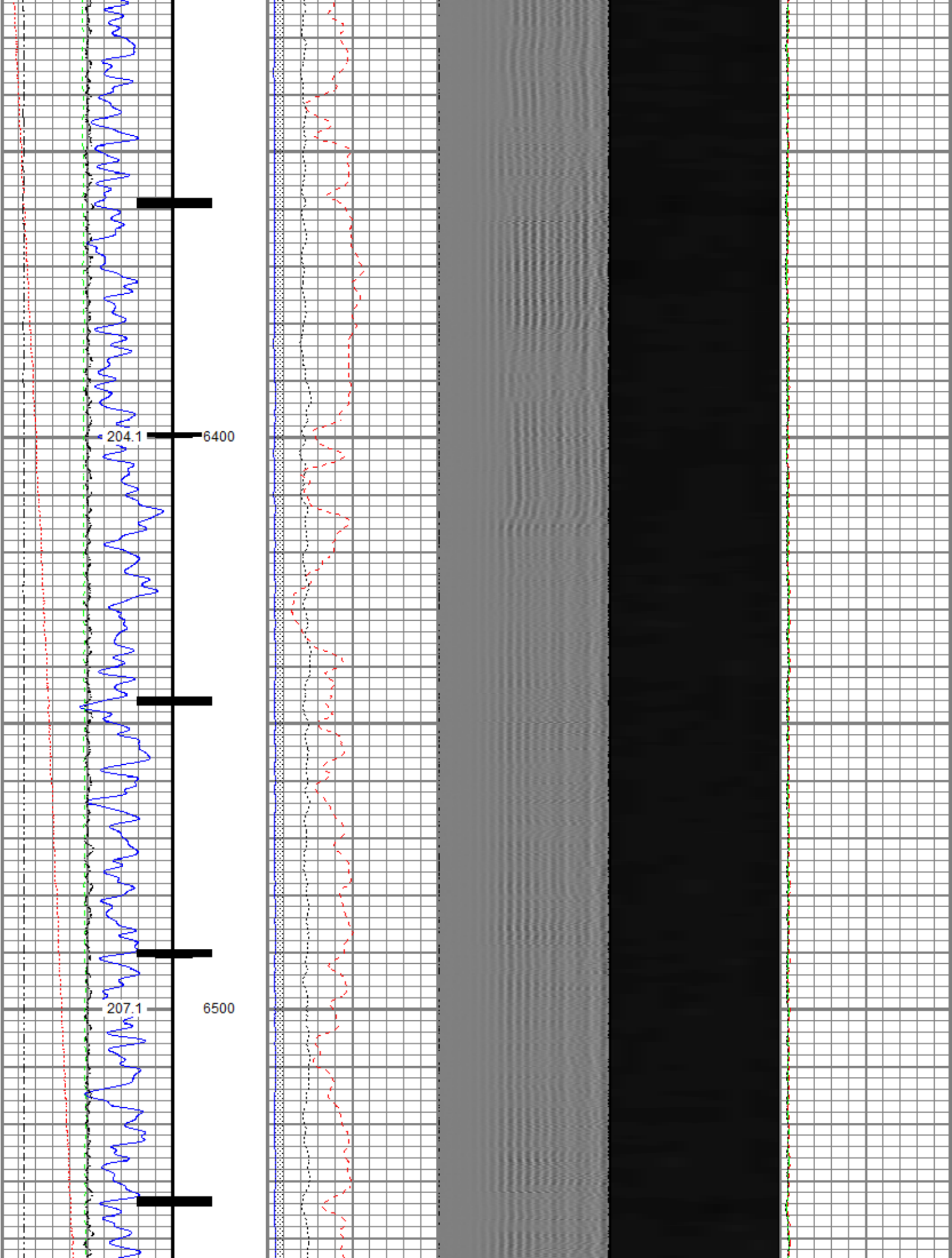


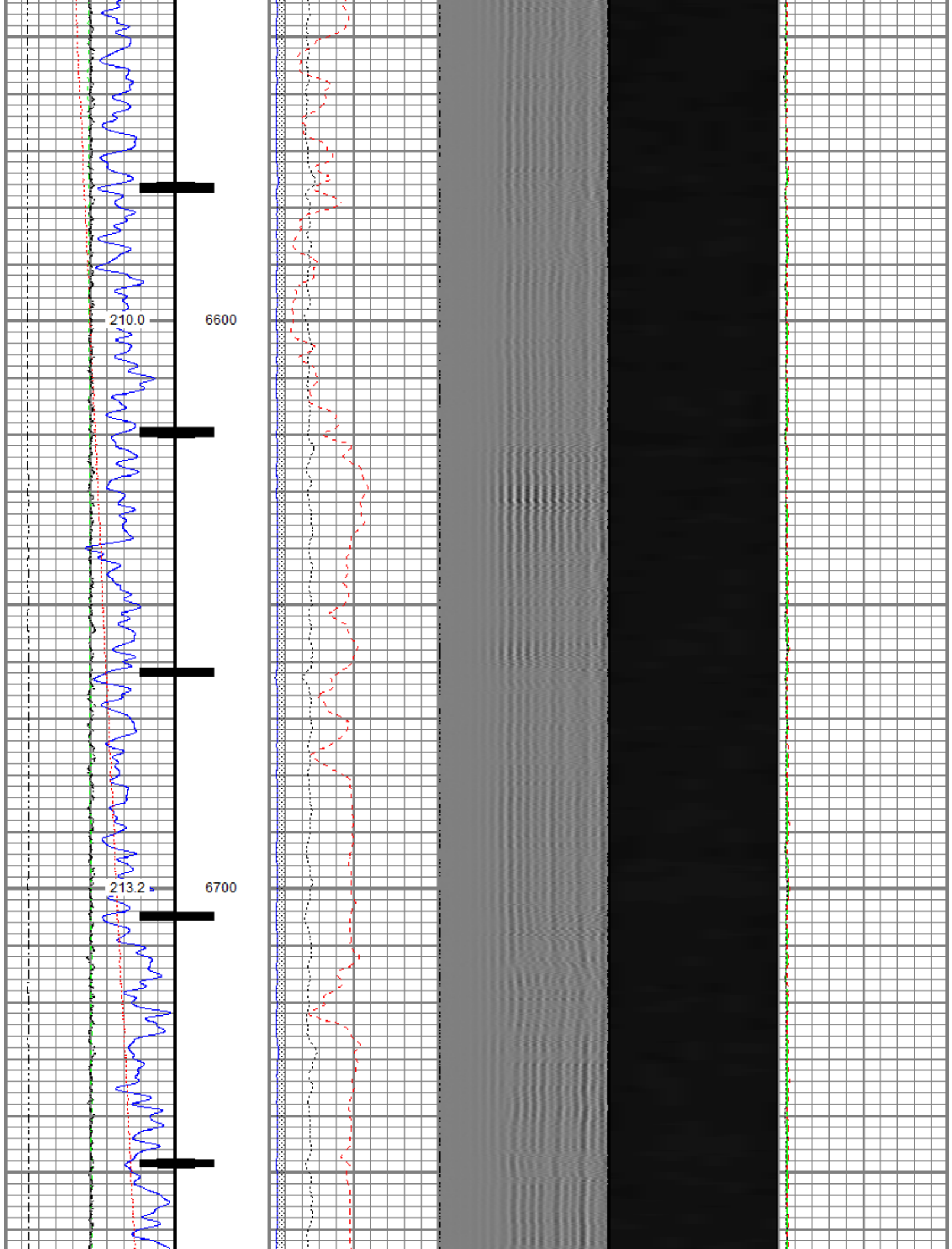


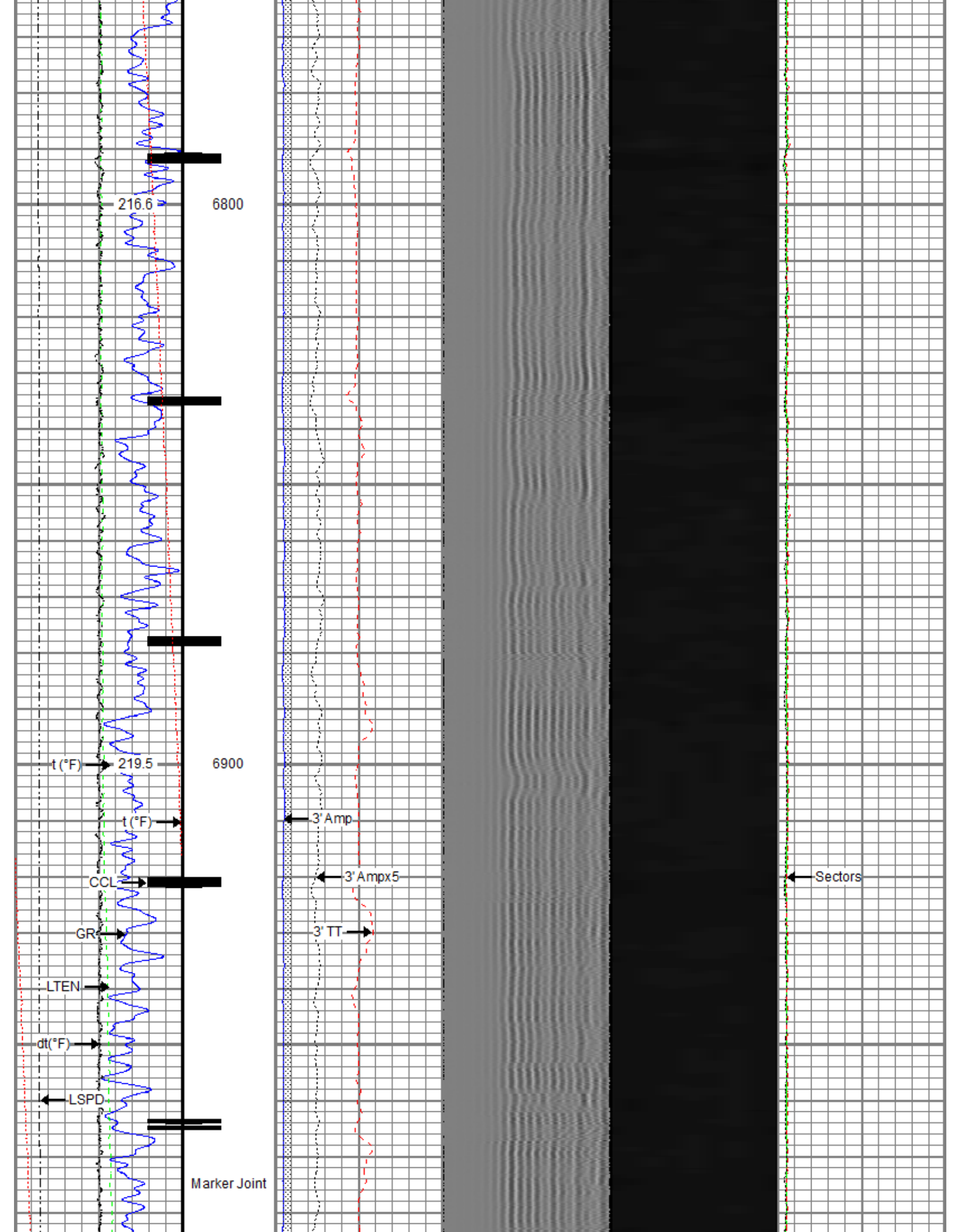


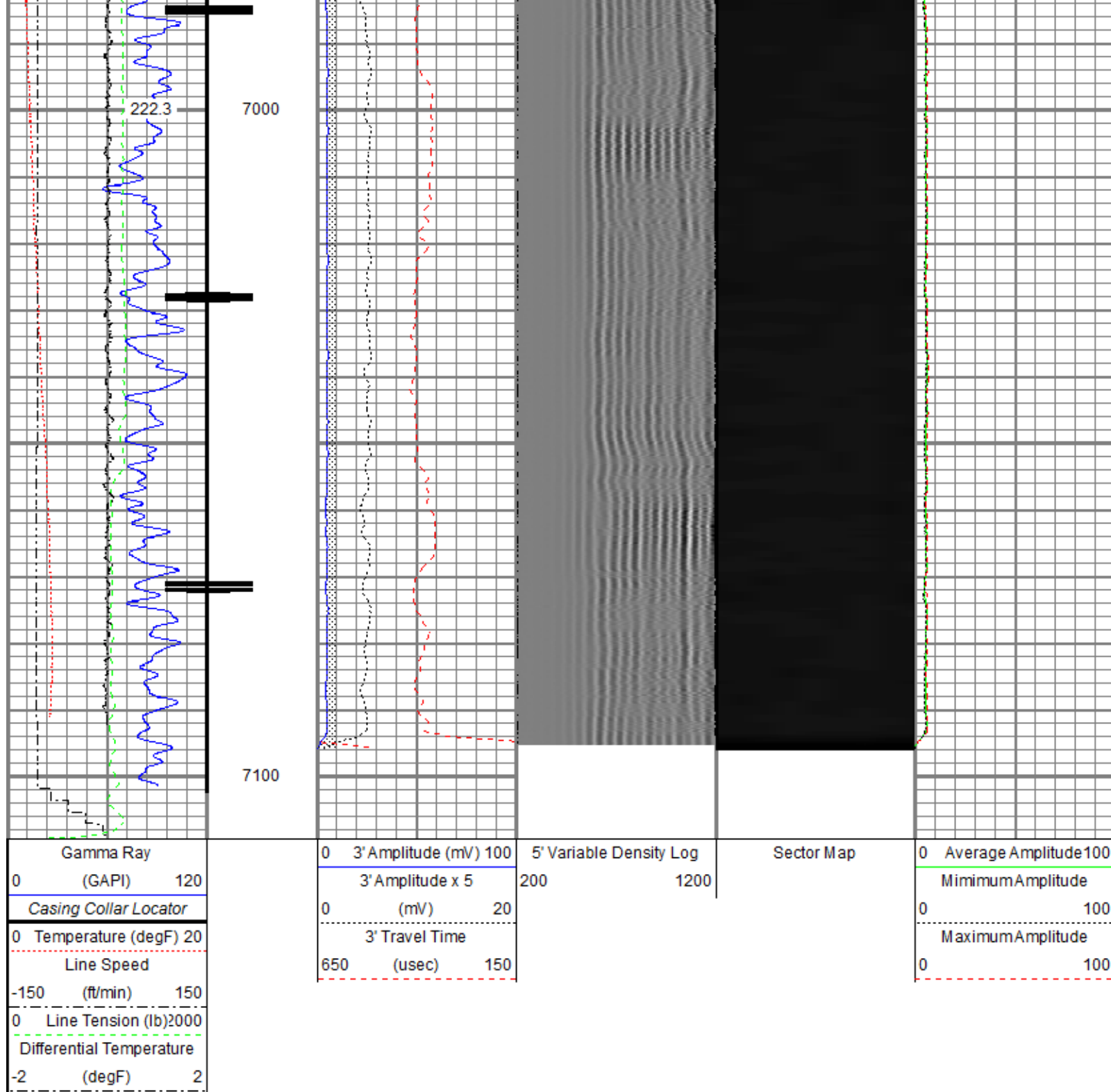








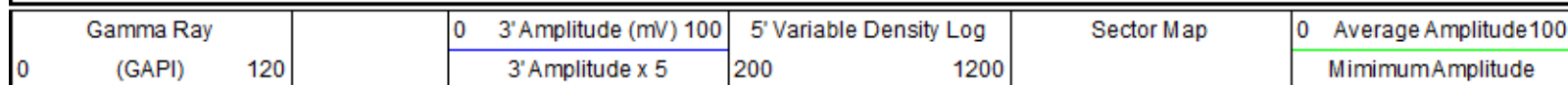




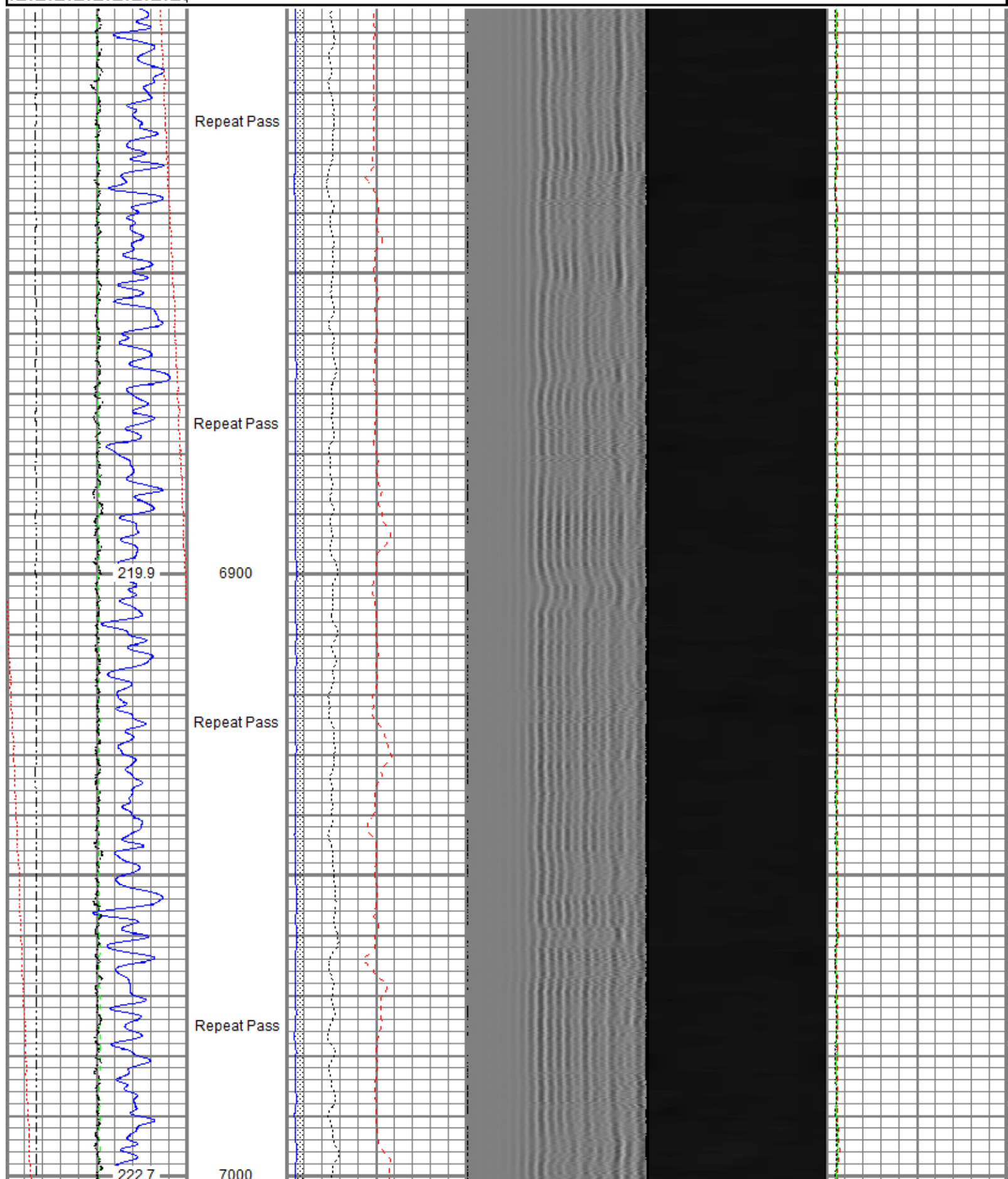
Repeat Pass

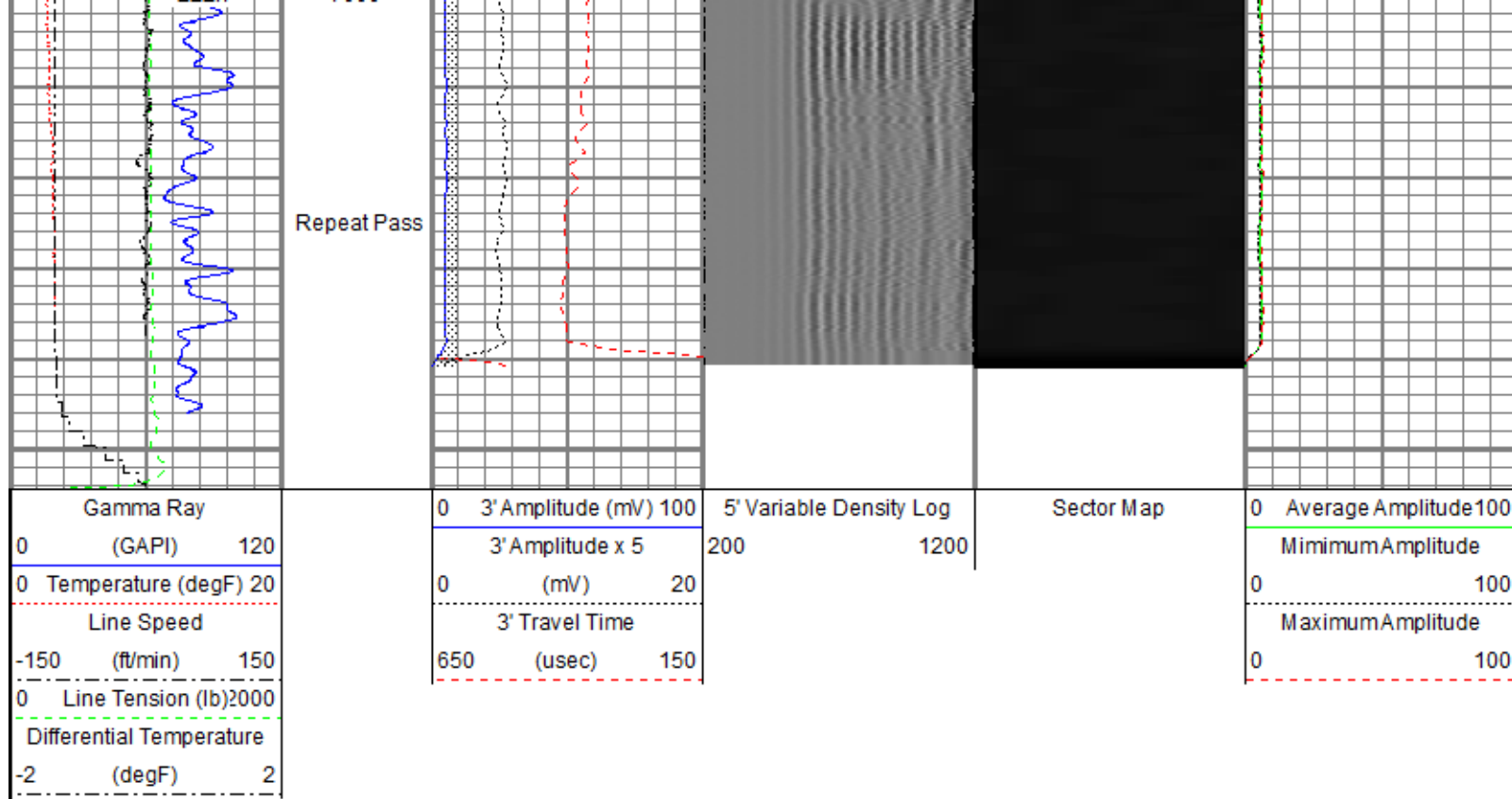
Recorded With 2800 PSI Surface Induced Pressure

Database File: anadarko_papa jo 2-25 36n-17hz\0512345496_anadarko_papa jo 2-25 36n-17hz_rbl_03-31-18_2800 psi.db
 Dataset Pathname: pass2.1
 Presentation Format: ros_radrii
 Dataset Creation: Sun Apr 01 15:03:30 2018
 Charted by: Depth in Feet scaled 1:240




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)
			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
TEMP	17.04					
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					

				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 (FW1304-132) 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: 0512345496_anadarko_papa jo 2-25 36n-17hz_rbl_03-31-18_2800 psi.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_papa jo 2-25 36n-17hz\0512345496_anadarko_papa jo 2-25 36n-17hz_rbl_03-31-18_2800 psi.db: field/well/run1/pass4.2					
Dataset Pathname	pass4.2					
Dataset Creation	Sun Apr 01 14:54:51 2018					
Gamma Ray Calibration Report						
Serial Number:	FW1304-132					
Tool Model:	2750 6PB					
Performed:	Tue Nov 28 11:17:11 2017					
Calibrator Value:	637.0	GAPI				
Background Reading:	109.1	cps				
Calibrator Reading:	1009.7	cps				
Sensitivity:	0.7072	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 Sat Mar 31 06:44:13 2018:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.319	0.800	71.921	223.875	0.546
CAL	0.004	0.384				
5'	0.001	0.291	0.800	71.921	244.758	0.678
SUM						
S1	0.001	0.316	0.000	100.000	317.394	-0.290
S2	0.001	0.317	0.000	100.000	316.518	-0.313
S3	0.001	0.316	0.000	100.000	317.003	-0.274

S3	0.001	0.315	0.000	100.000	317.093	-0.274
S4	0.001	0.315	0.000	100.000	317.746	-0.240
S5	0.001	0.326	0.000	100.000	307.663	-0.342
S6	0.001	0.331	0.000	100.000	303.384	-0.385
S7	0.001	0.327	0.000	100.000	307.098	-0.445
S8	0.001	0.324	0.000	100.000	309.824	-0.438

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.384	1.000	0.000

Air Zero Calibration, performed Sat Mar 31 06:44:48 2018:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.004		0.000		-0.000	
5'	0.005		0.000		-0.000	
SUM						
S1	0.005		0.000		-0.000	
S2	0.004		0.000		-0.000	
S3	0.004		0.000		-0.000	
S4	0.004		0.000		-0.000	
S5	0.004		0.000		-0.000	
S6	0.004		0.000		0.000	
S7	0.004		0.000		0.000	
S8	0.004		0.000		0.000	

Temperature Calibration Report

Serial Number: FW1308-091
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:50:54 2017

	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 Papa Jo 2-25 36N-17HZ
Field Wattenberg
County Weld
State Colorado