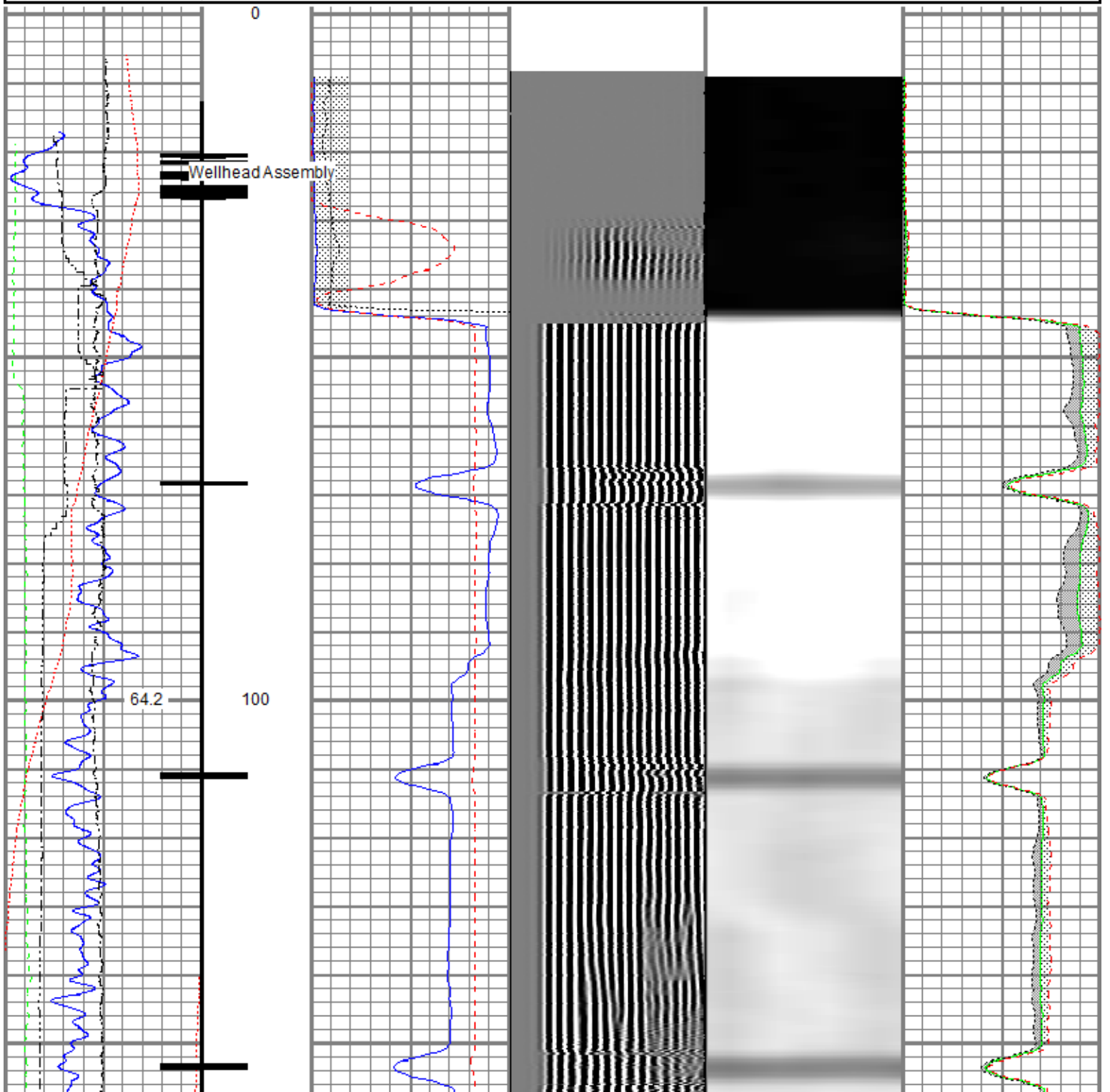
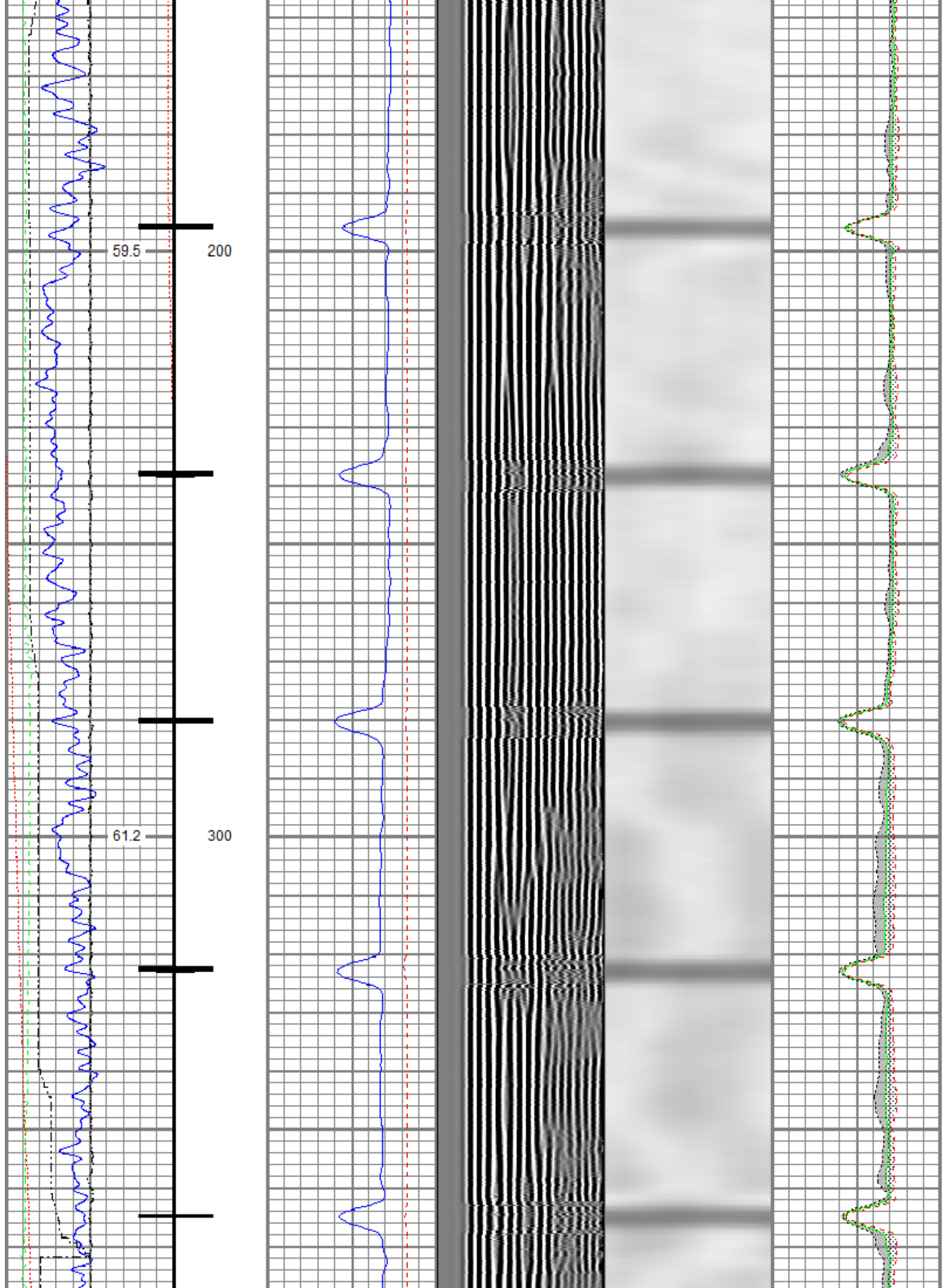
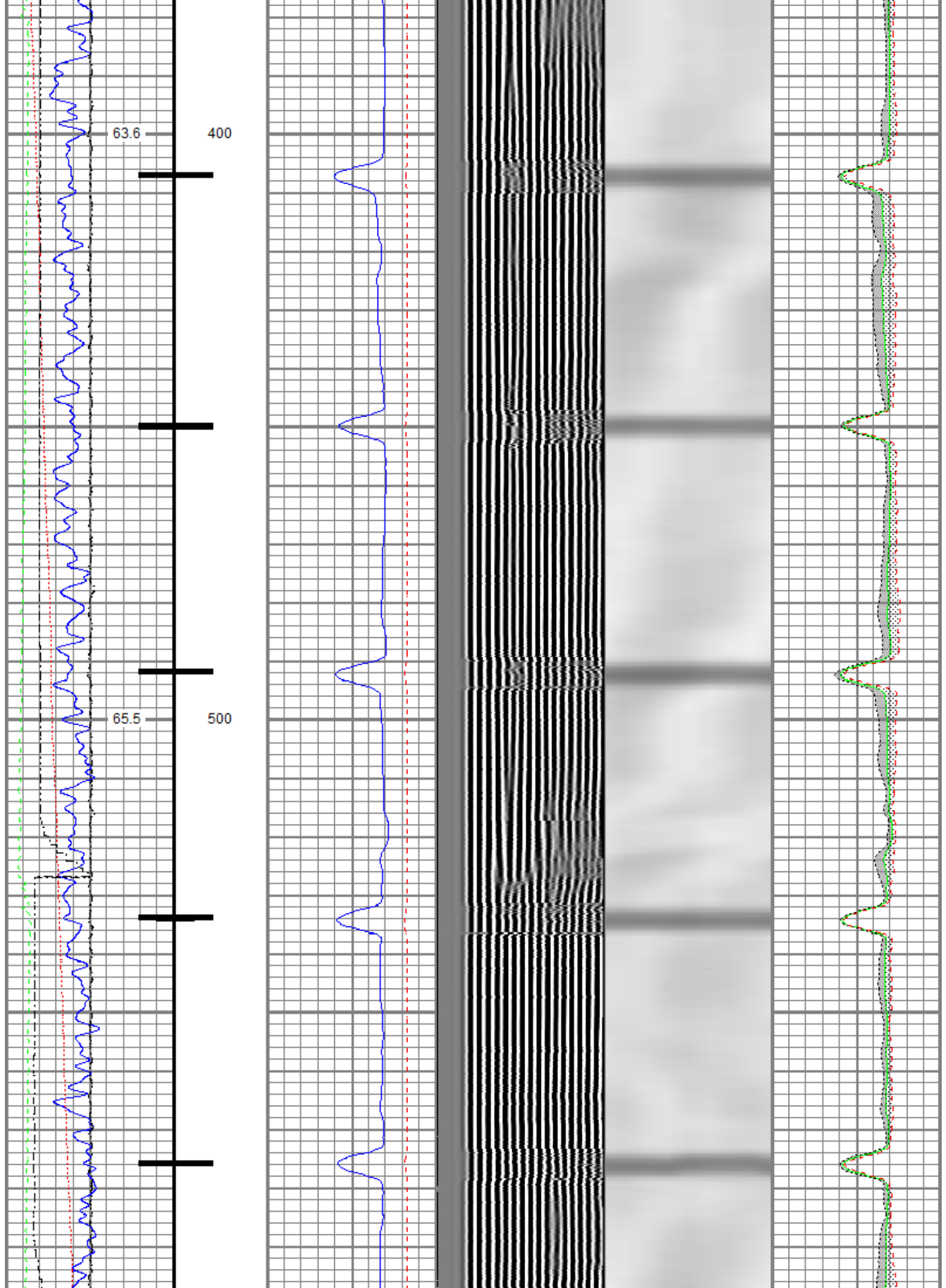


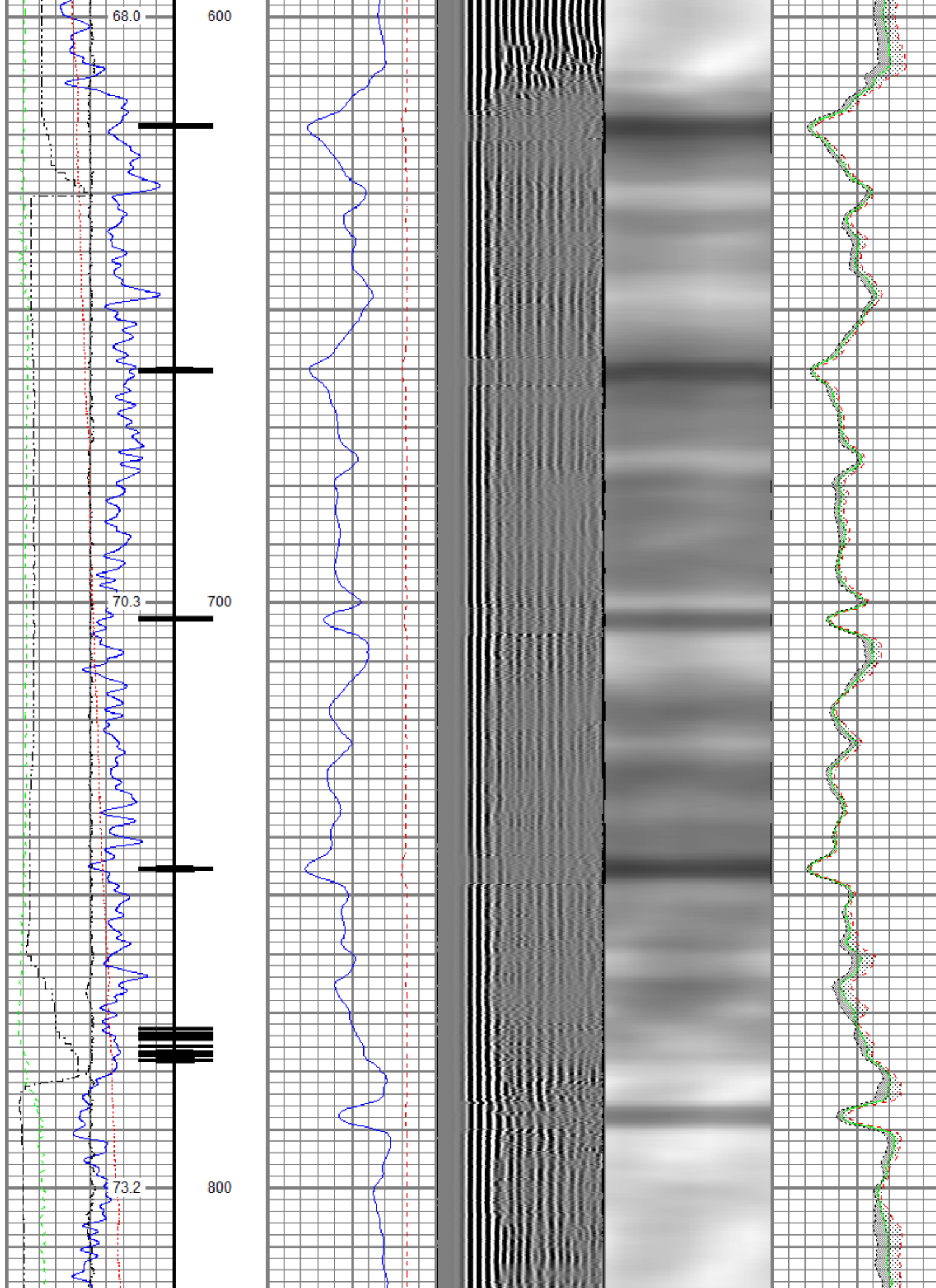
Database File anadarko_bb_drays_h_8-9_8-april-2019.db
 Dataset Pathname main1.1
 Presentation Format ros_radrii_anadarko_vert_gobo_35
 Dataset Creation Mon Apr 08 14:20:37 2019
 Charted by Depth in Feet scaled 1:240

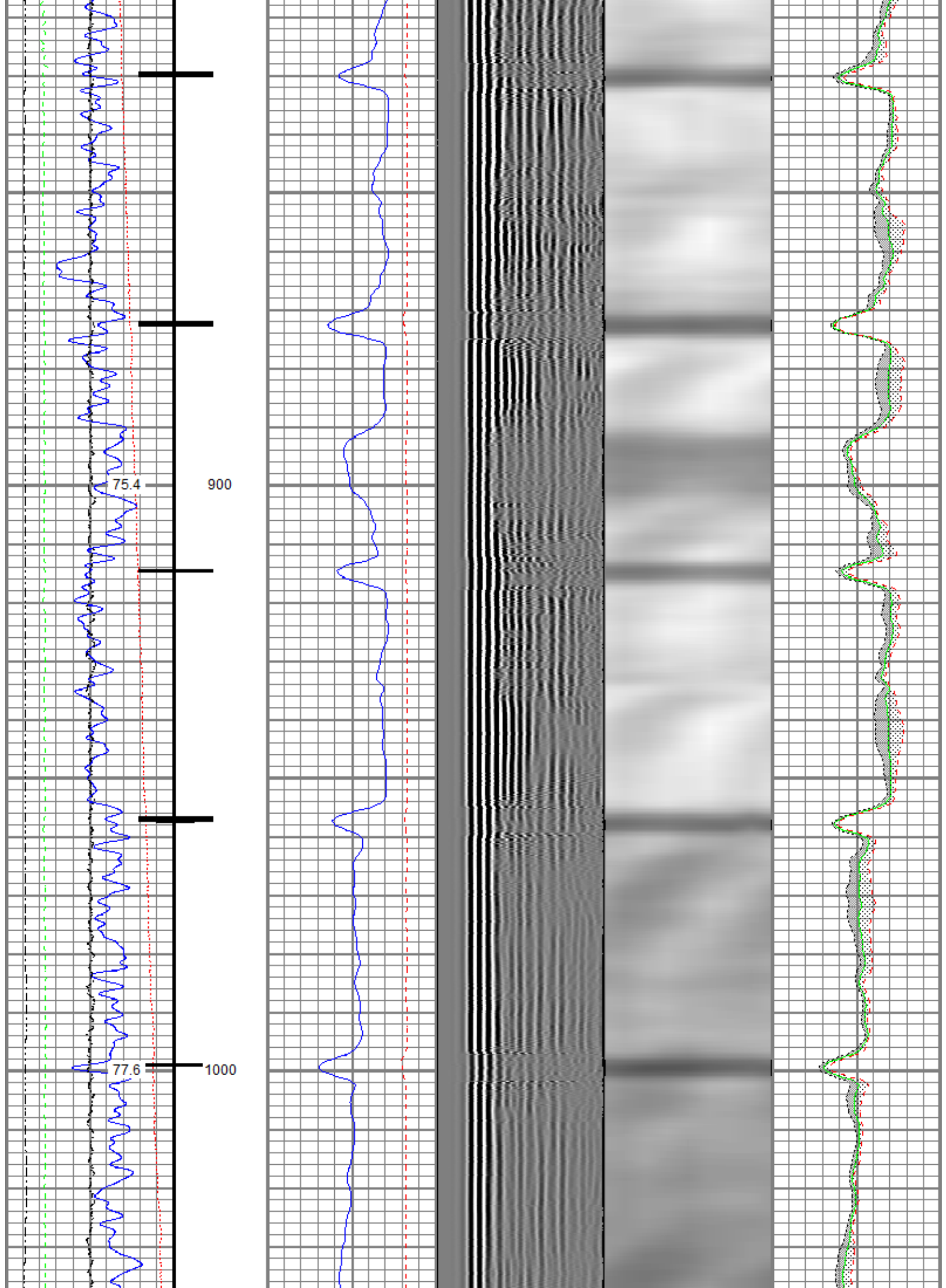
Gamma Ray (GAPI) 120	0 3' Amplitude (mV) 100	5' Variable Density Log 200 (usec) 1200	Sector Map	Average Amplitude 0 100
Temperature (degF) 20	0 3' Amplitude x 5 (mV) 20			Minimum Amplitude 0 100
Line Speed (ft/min) 150	650 3' Travel Time (usec) 150			Maximum Amplitude 0 100
Line Tension (lb) 000				
Differential Temperature (degF) 2				
Casing Collar Locator				

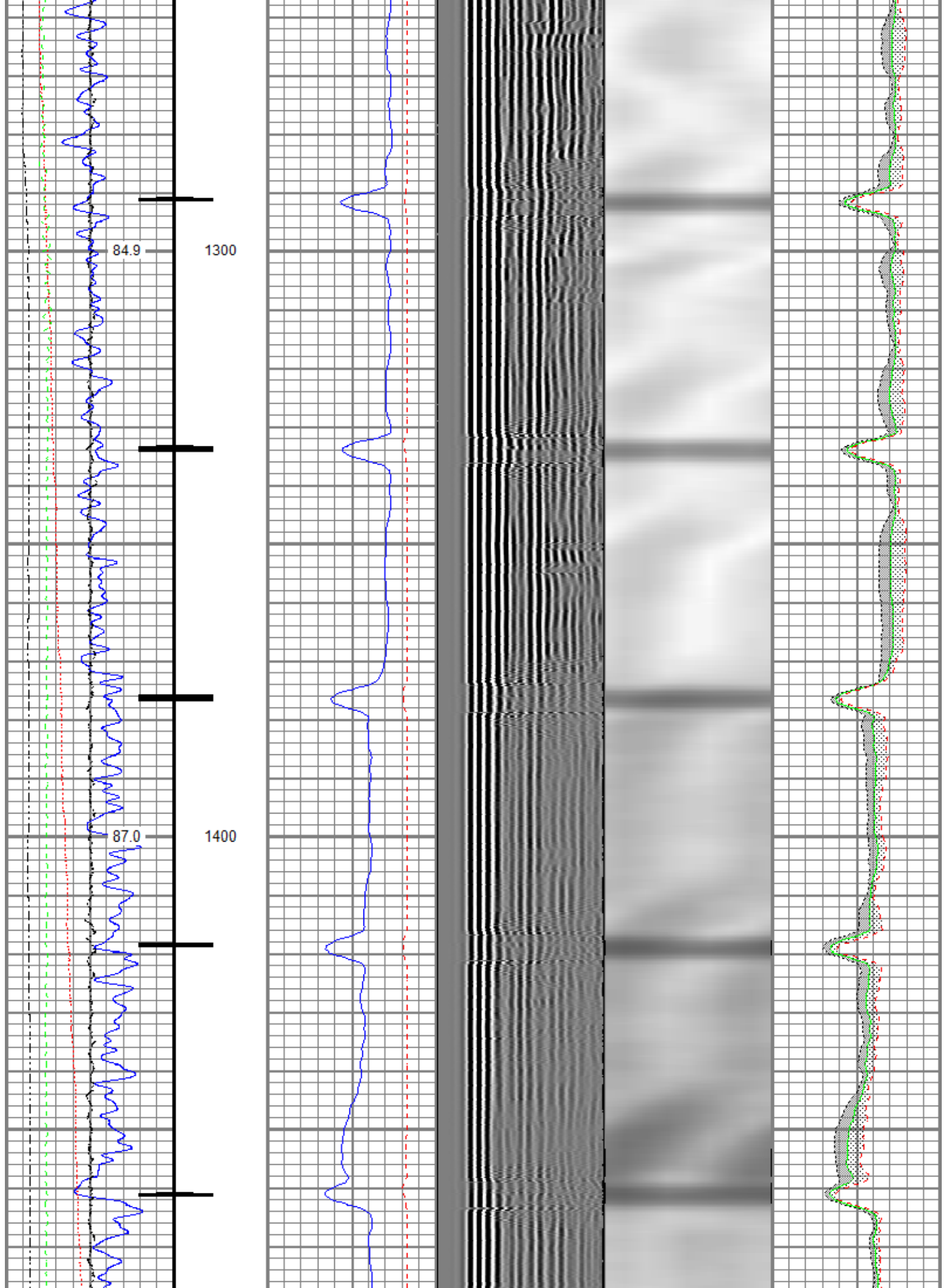


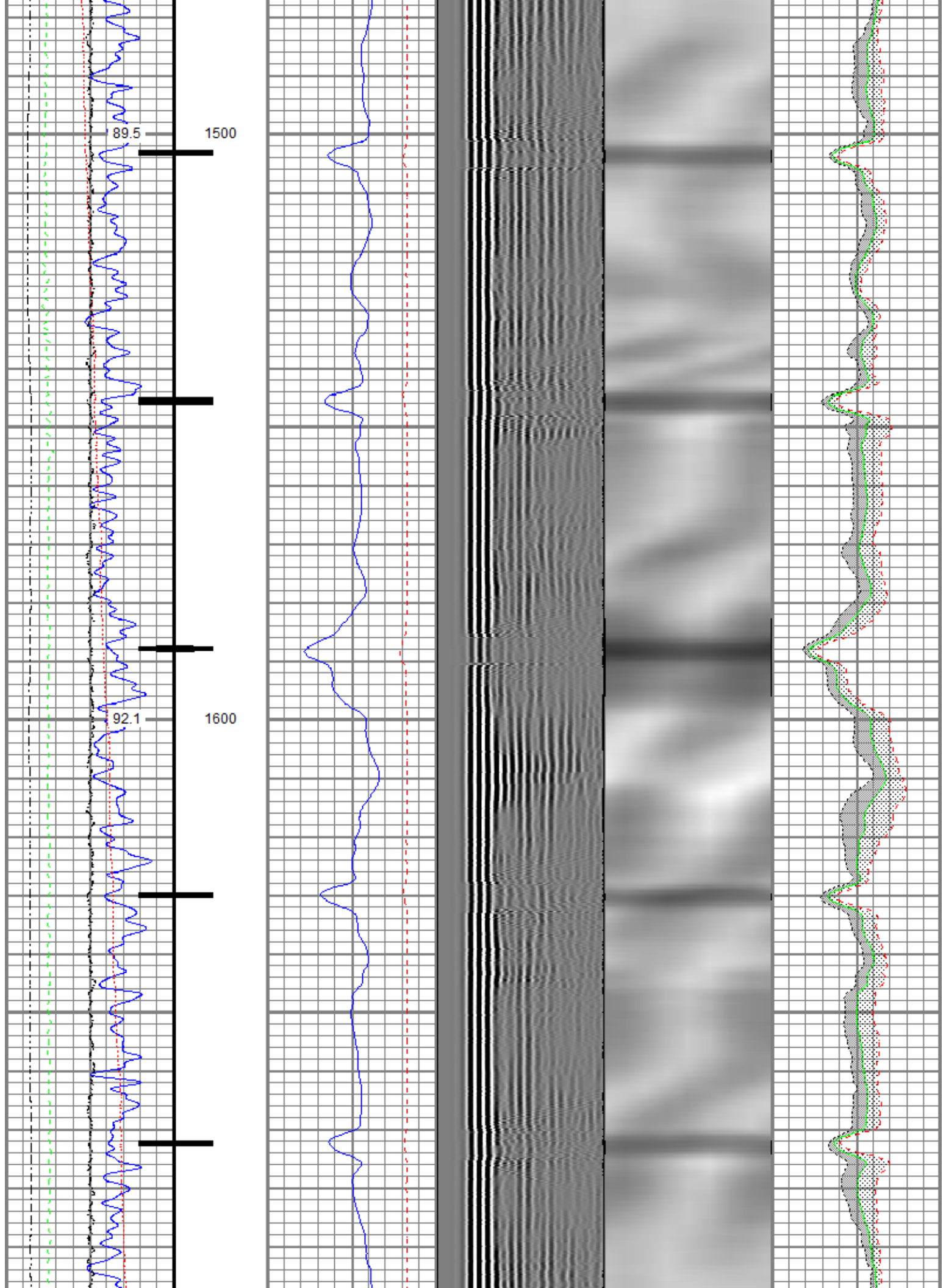


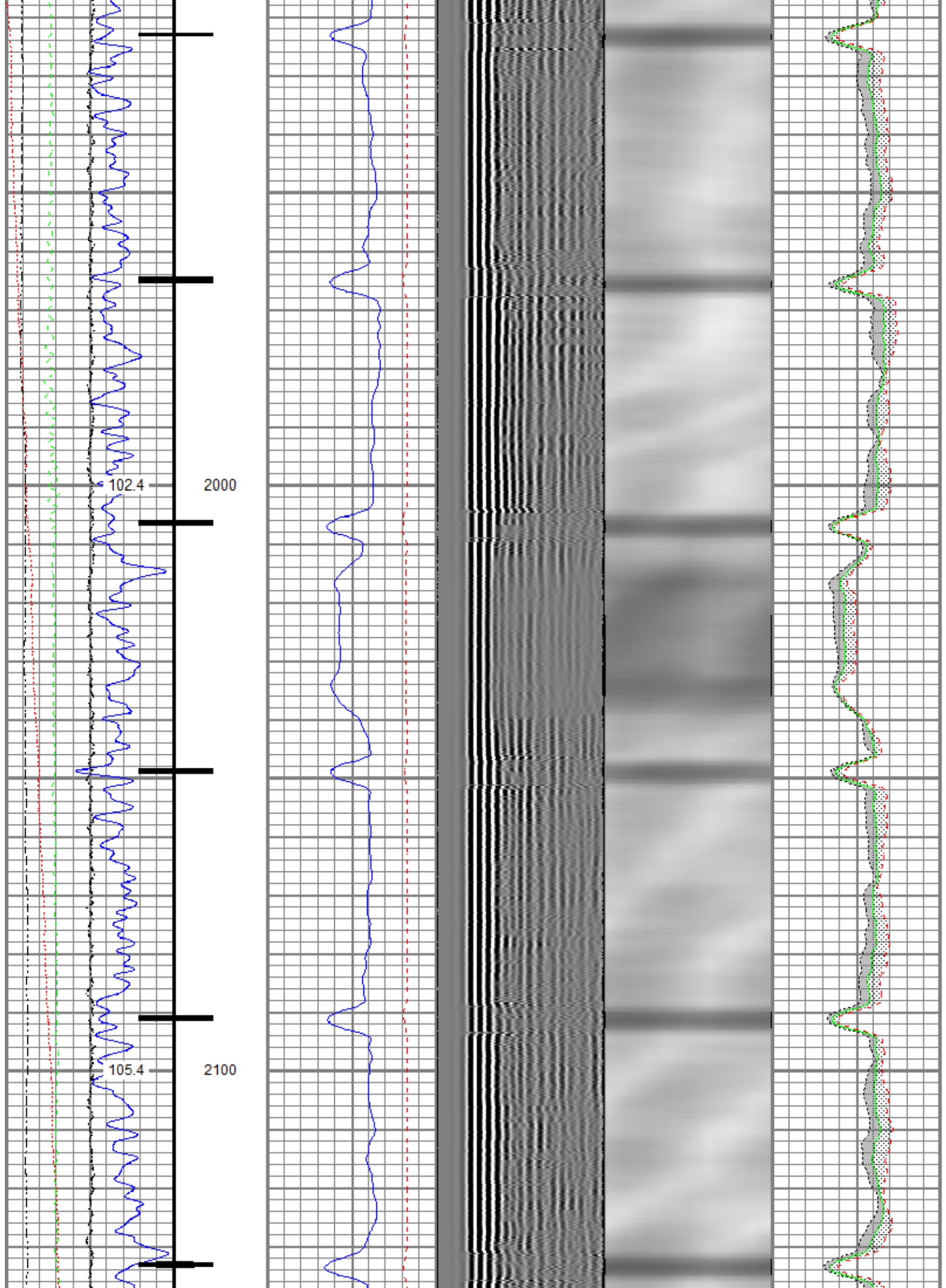


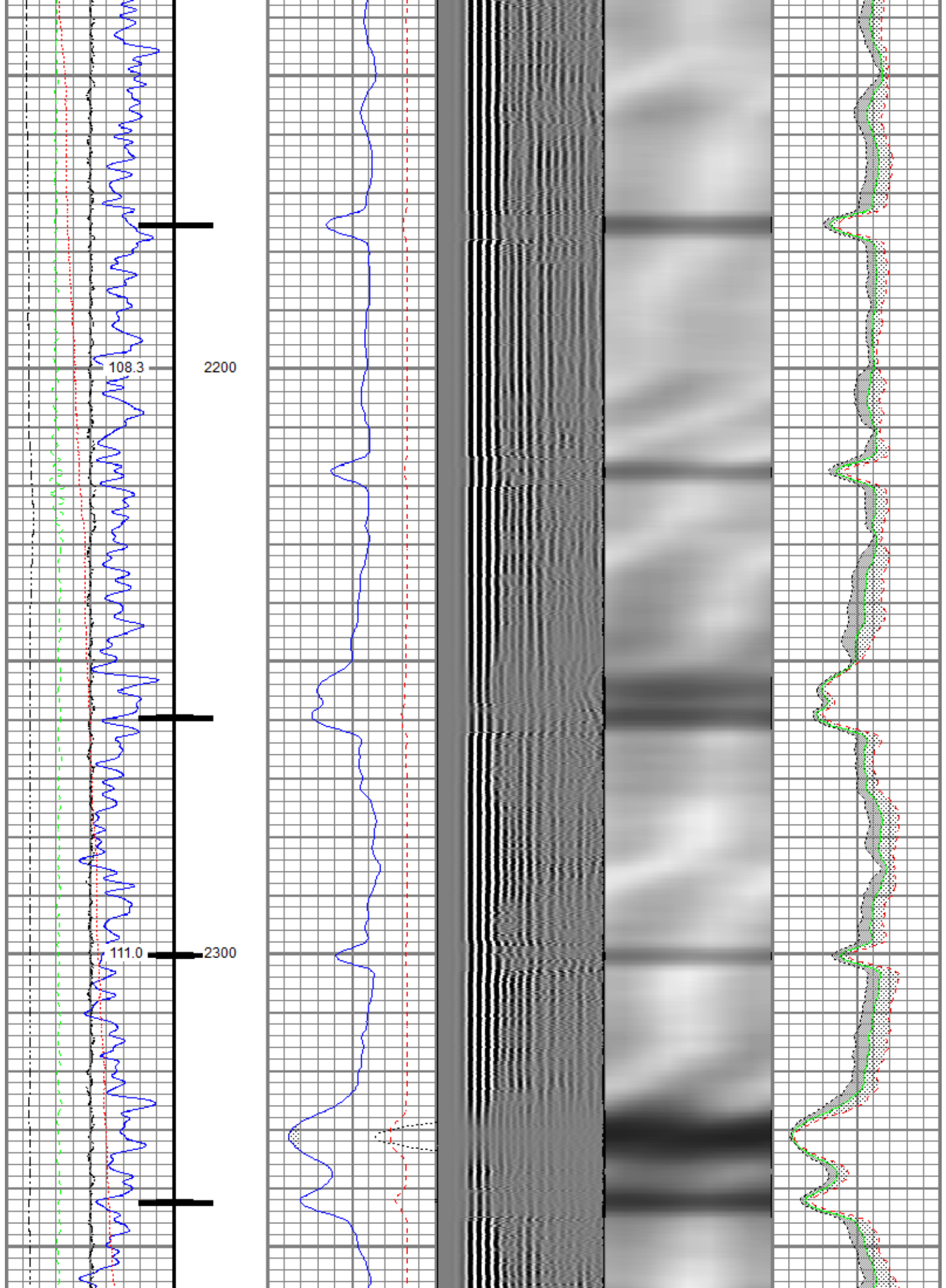


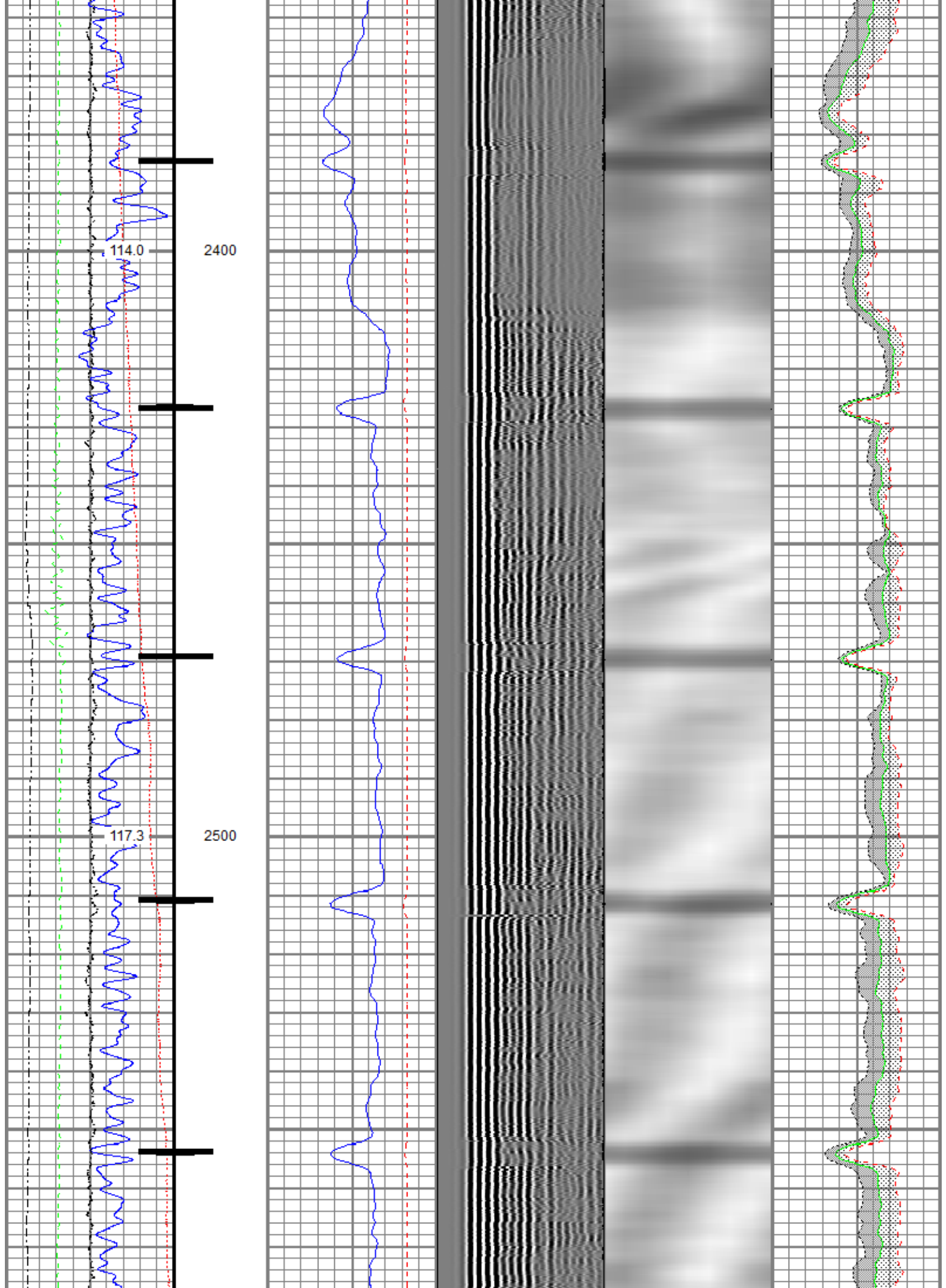


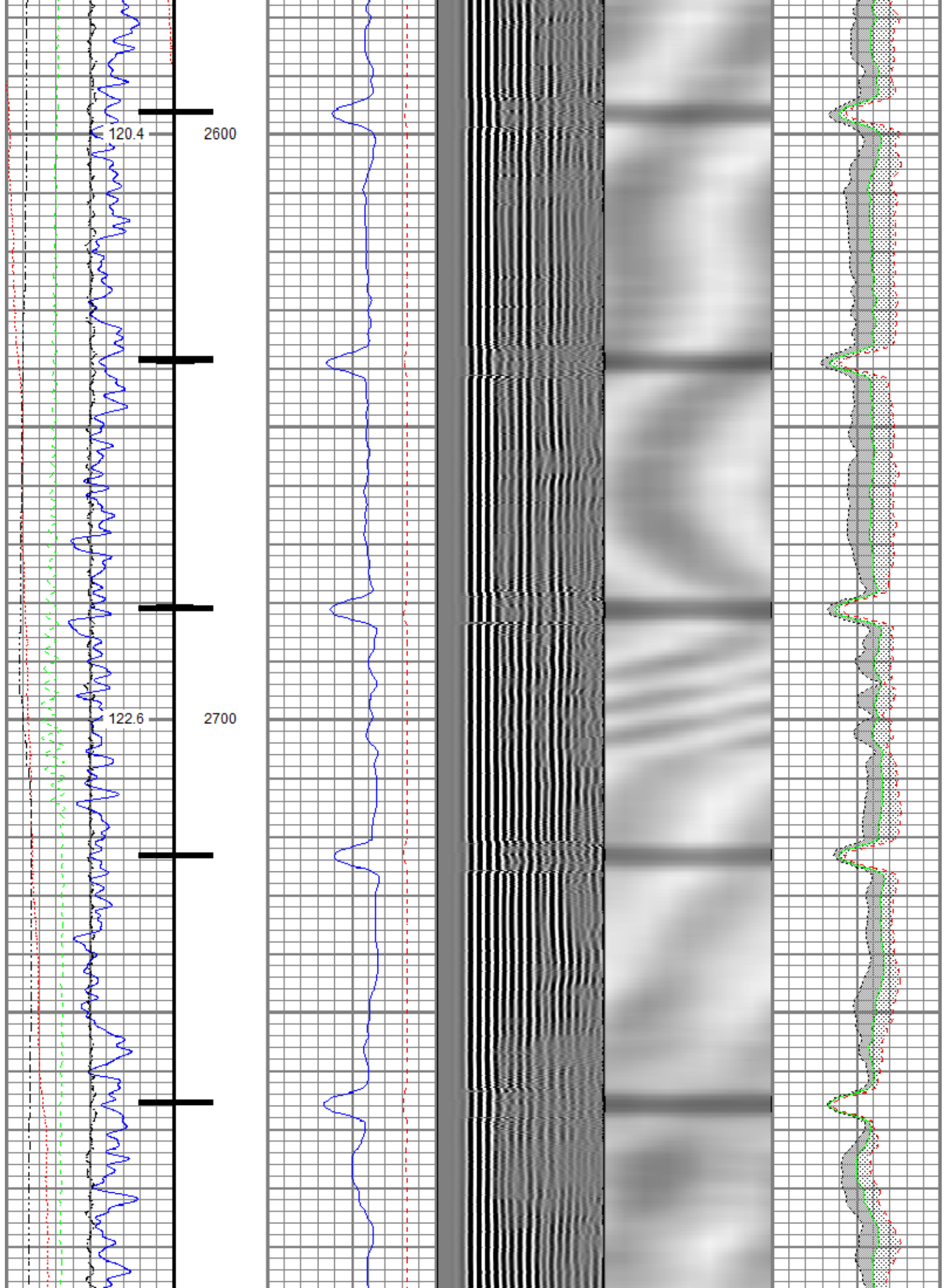


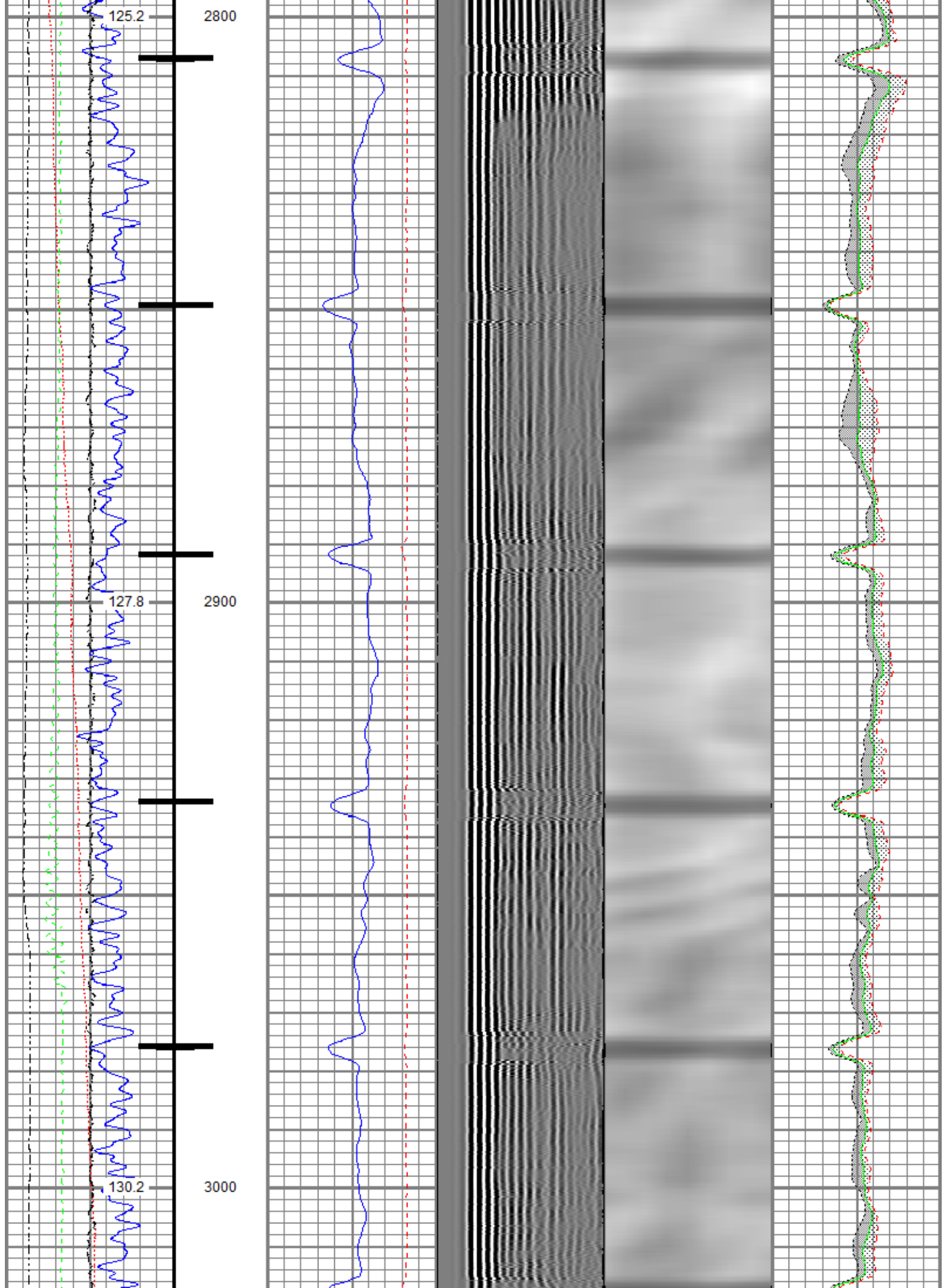


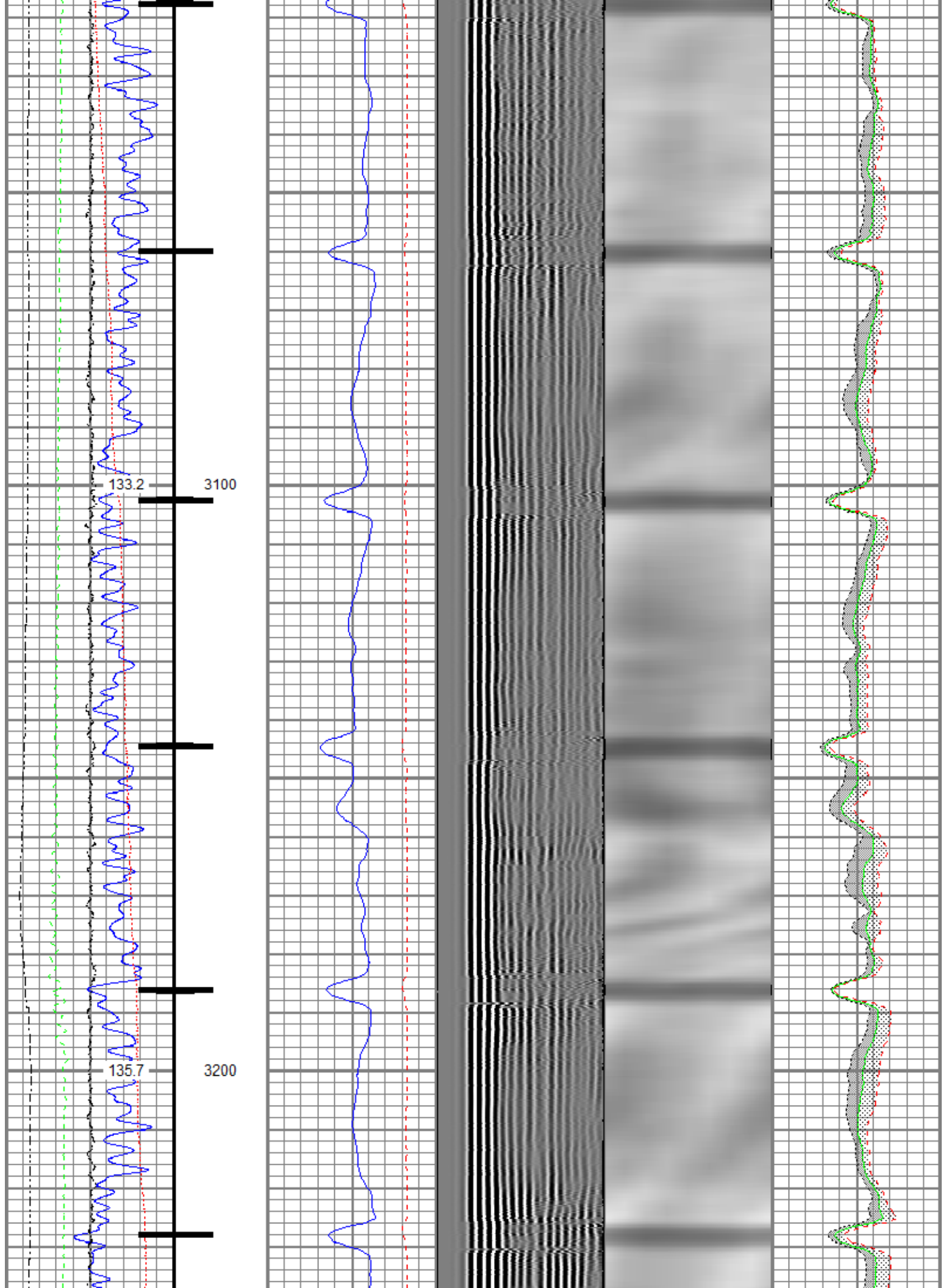


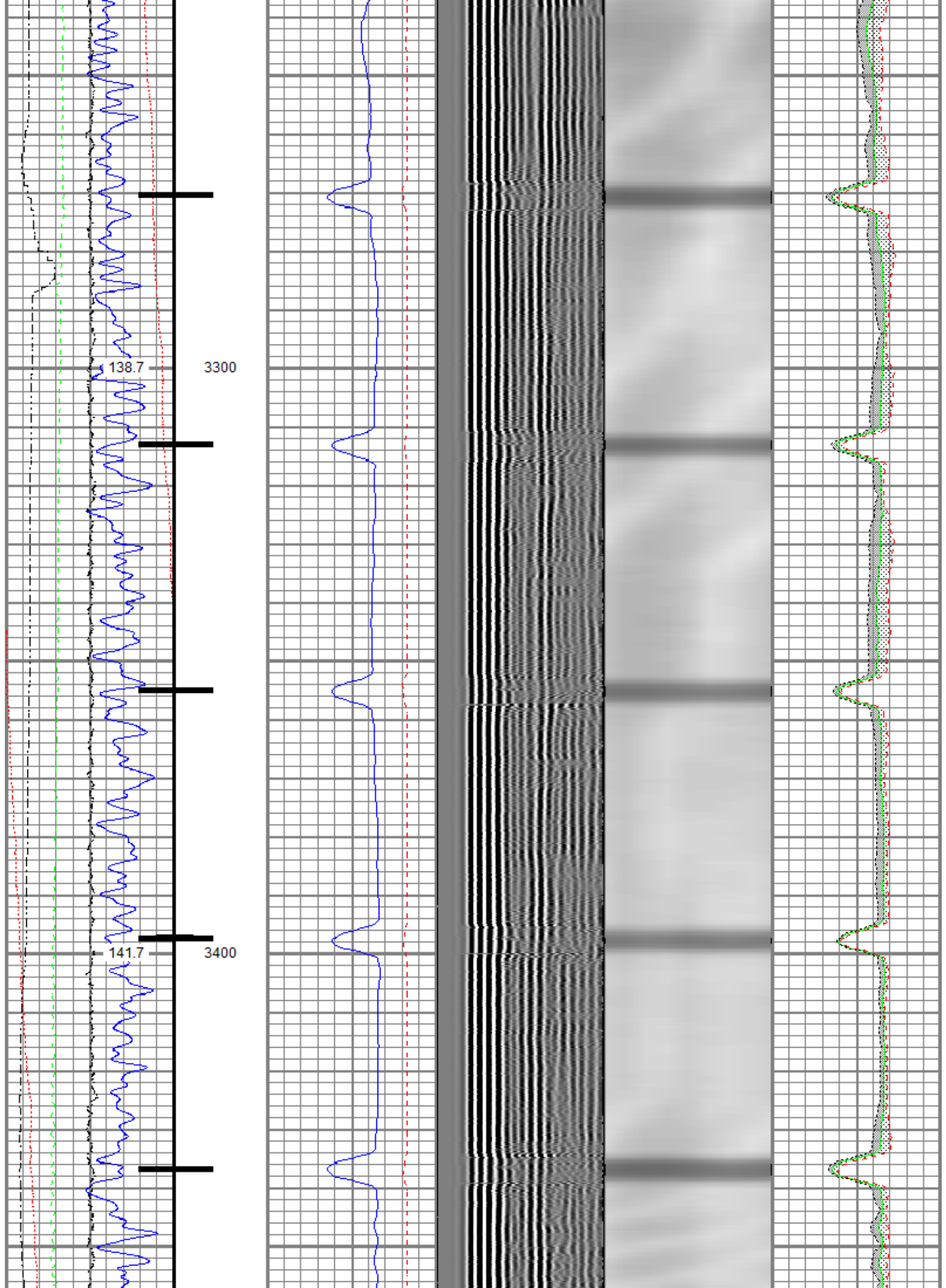


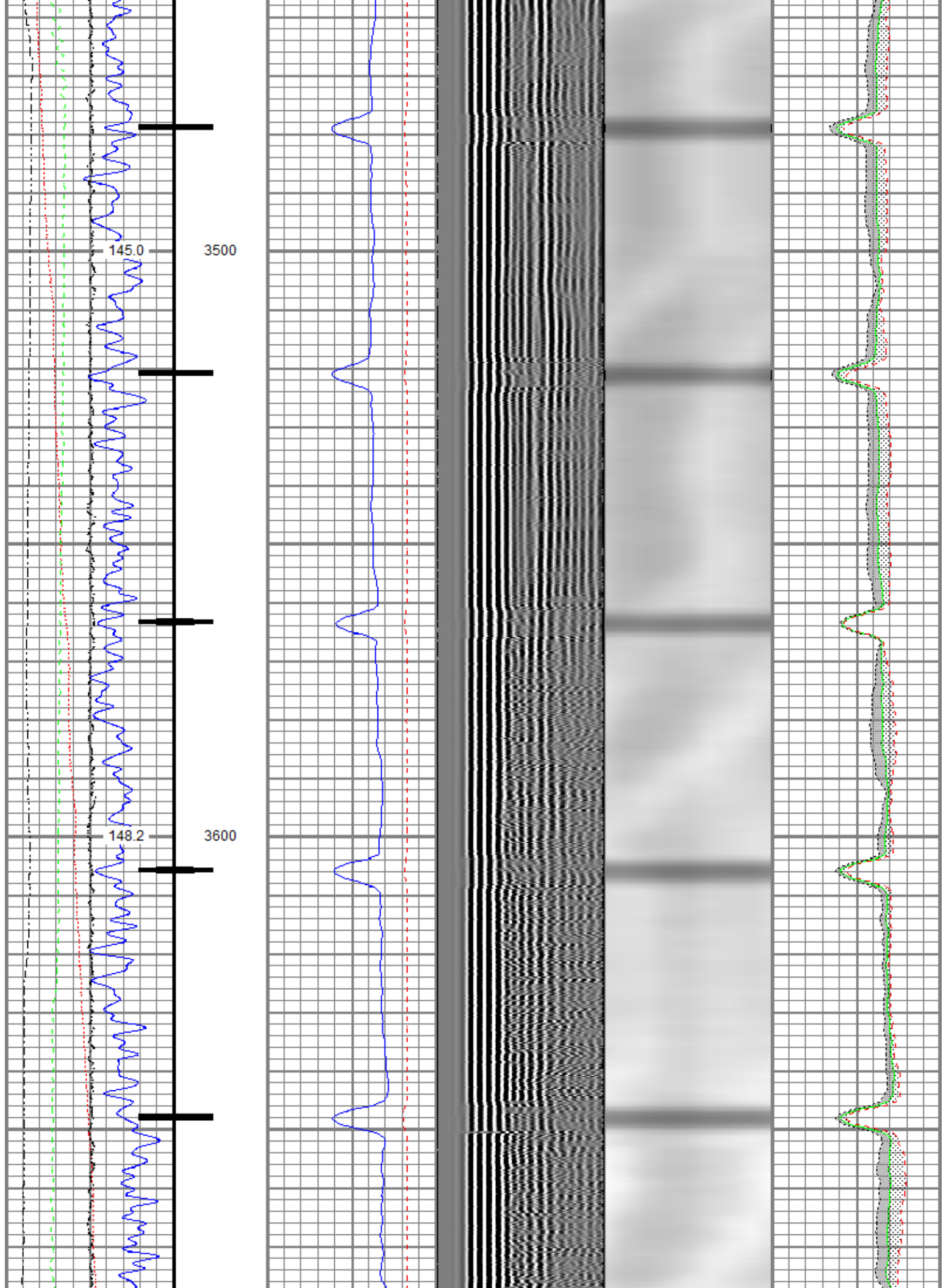


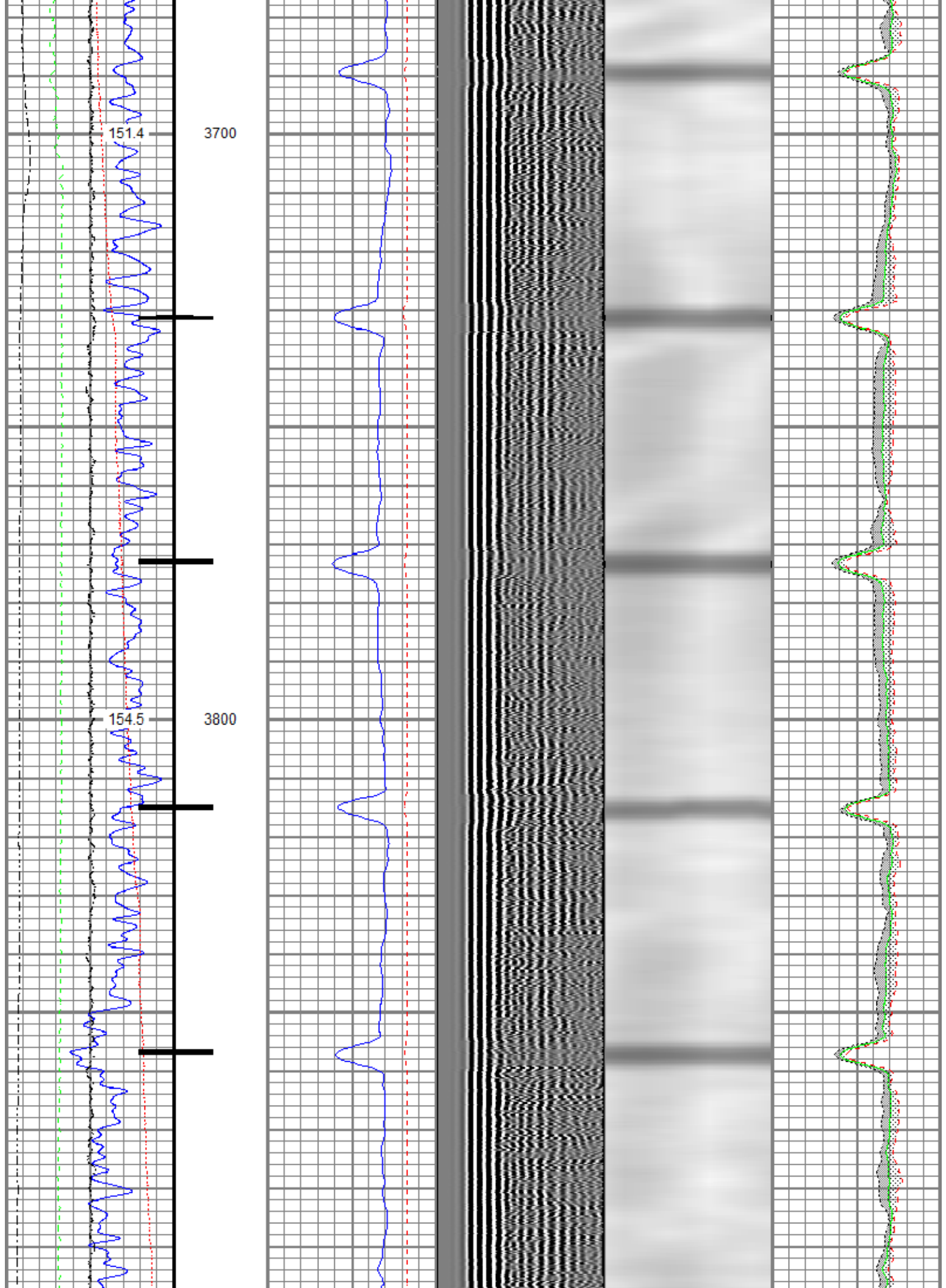


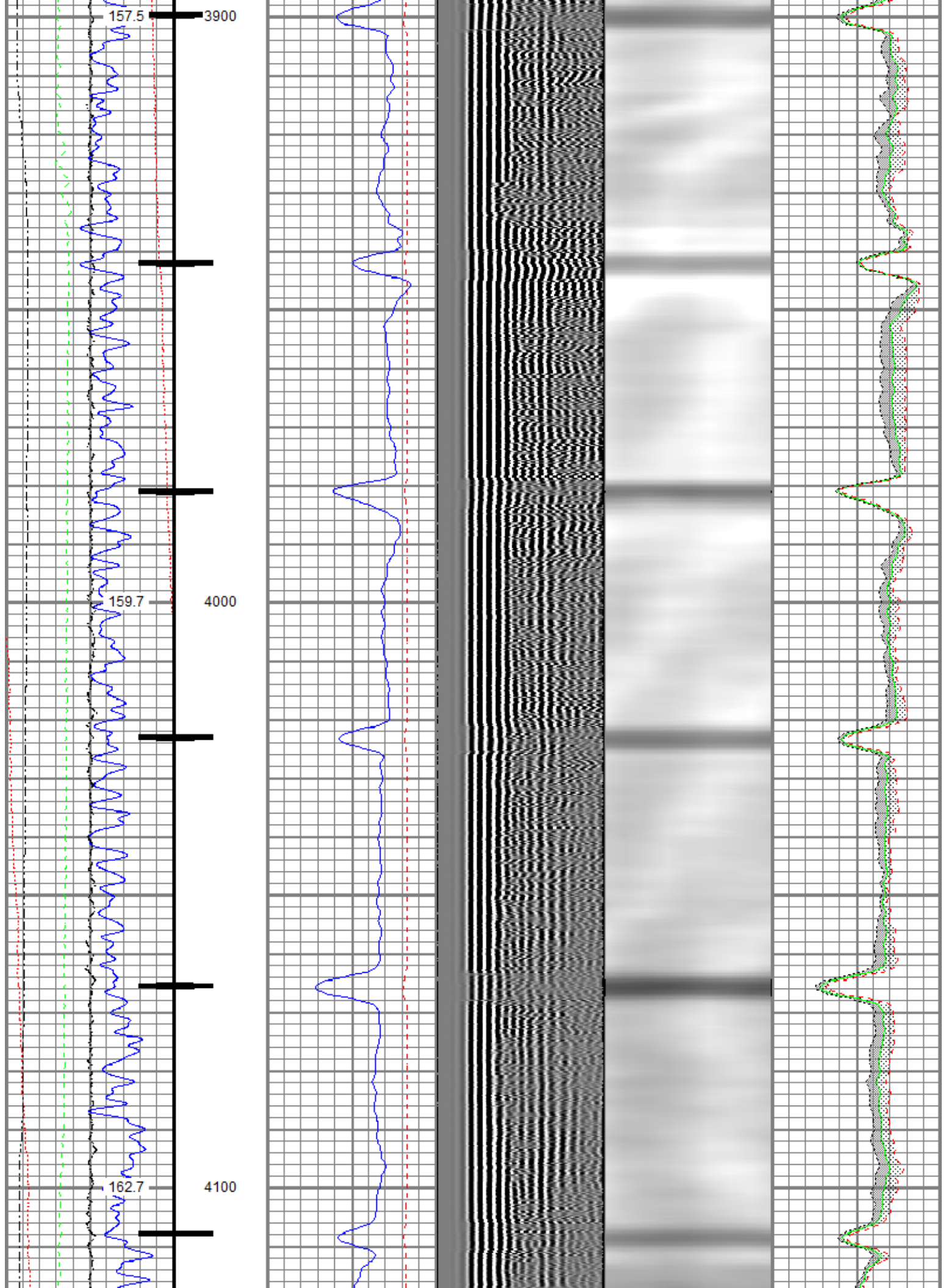


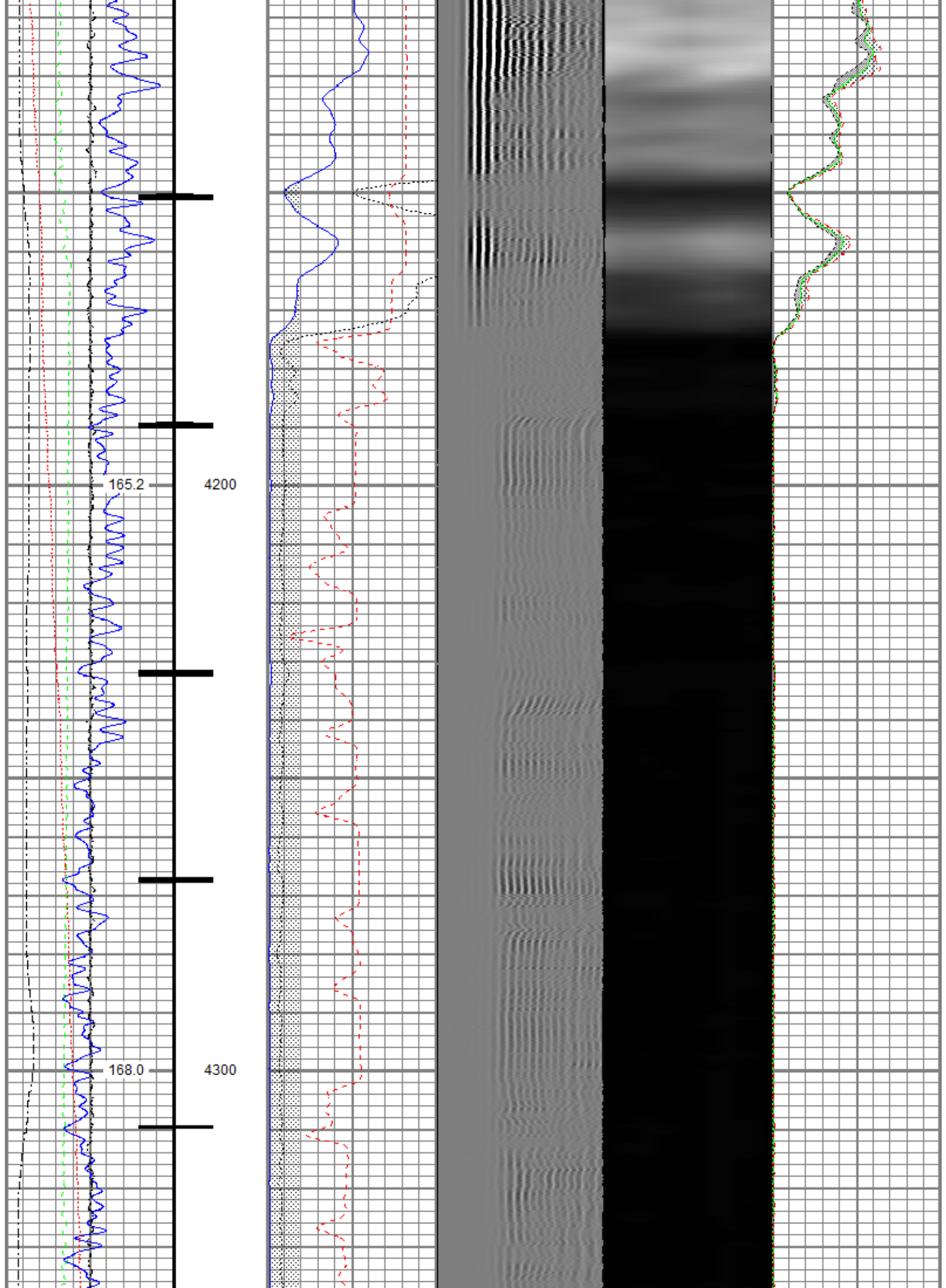


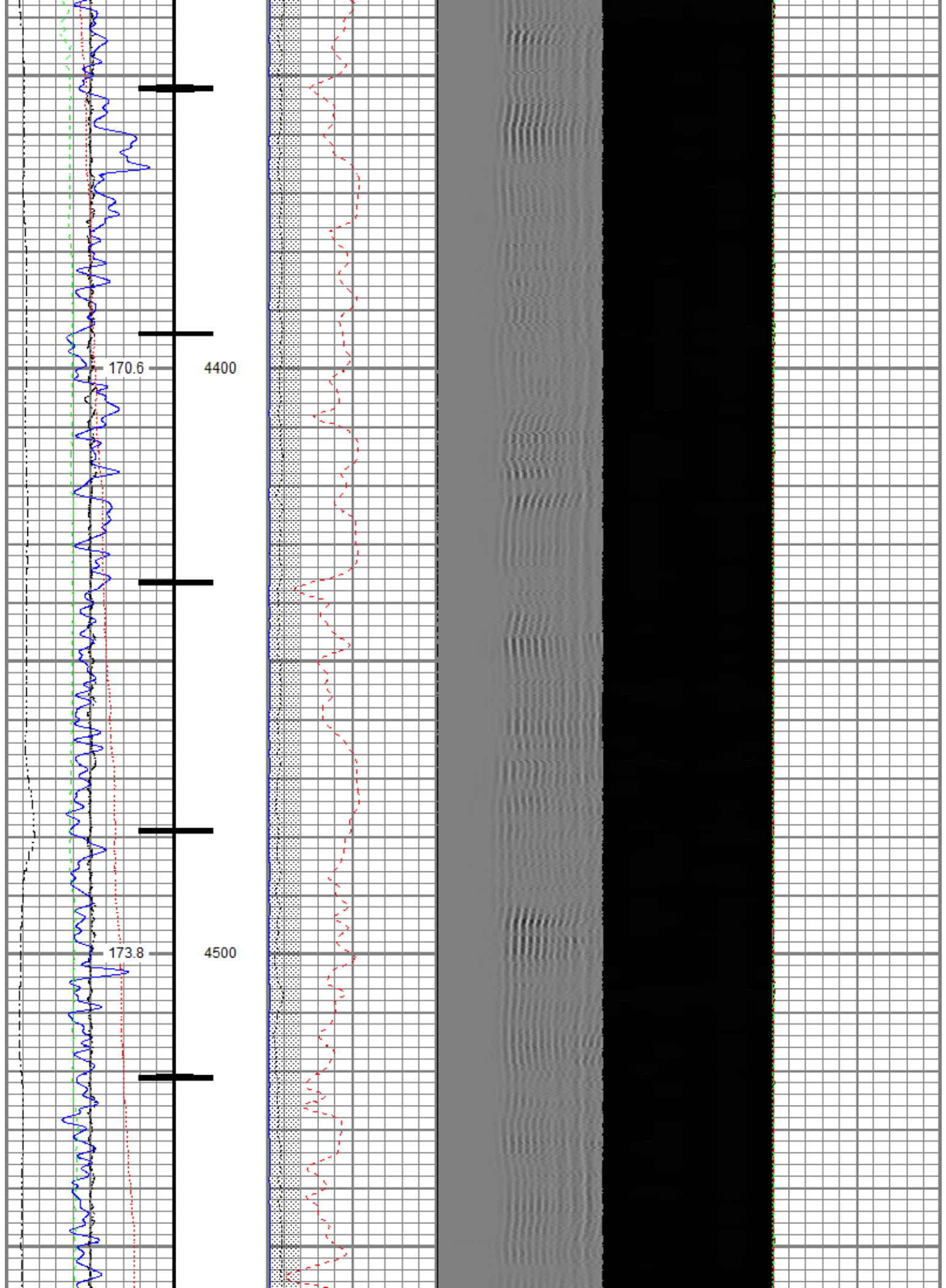


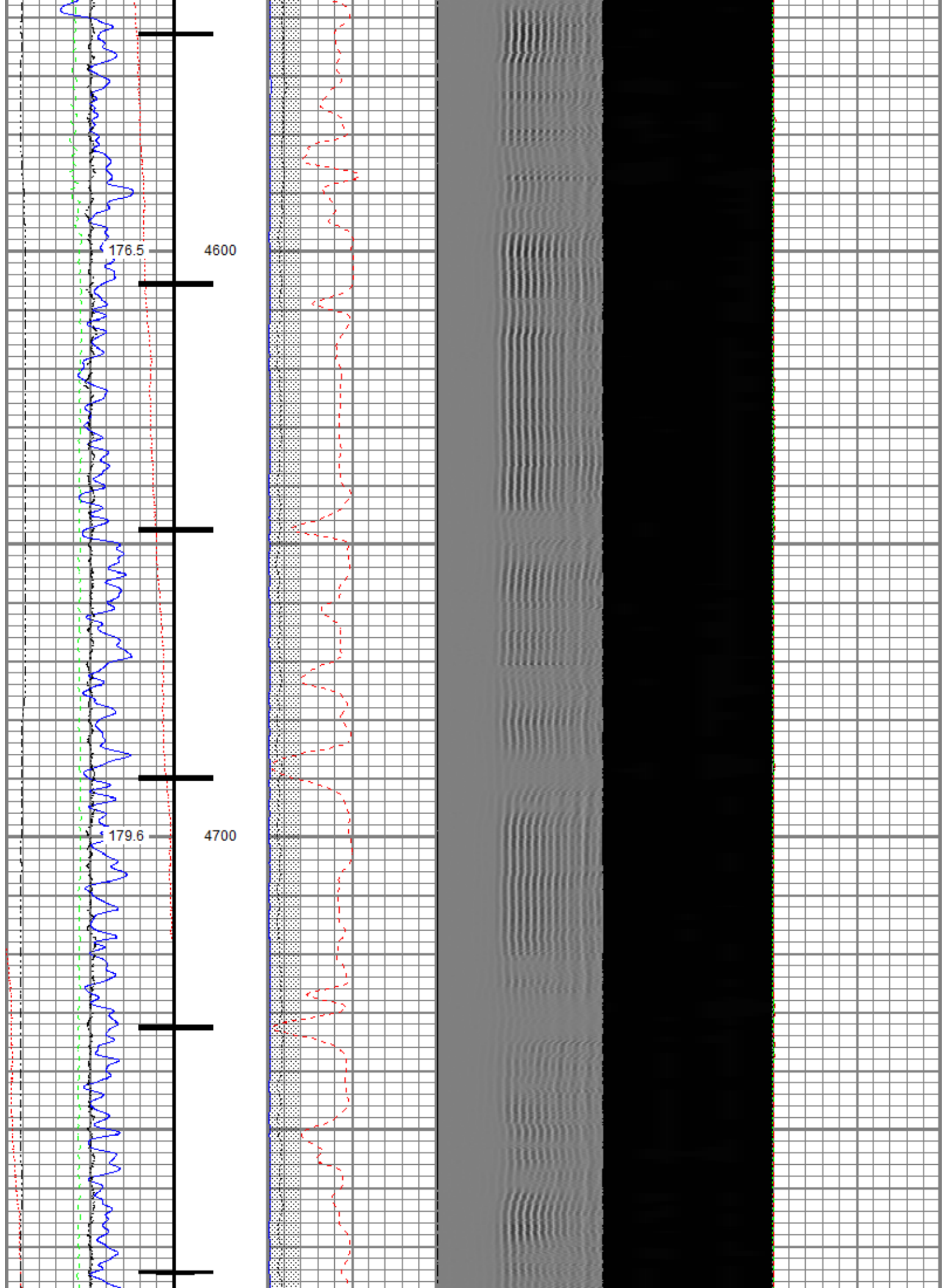


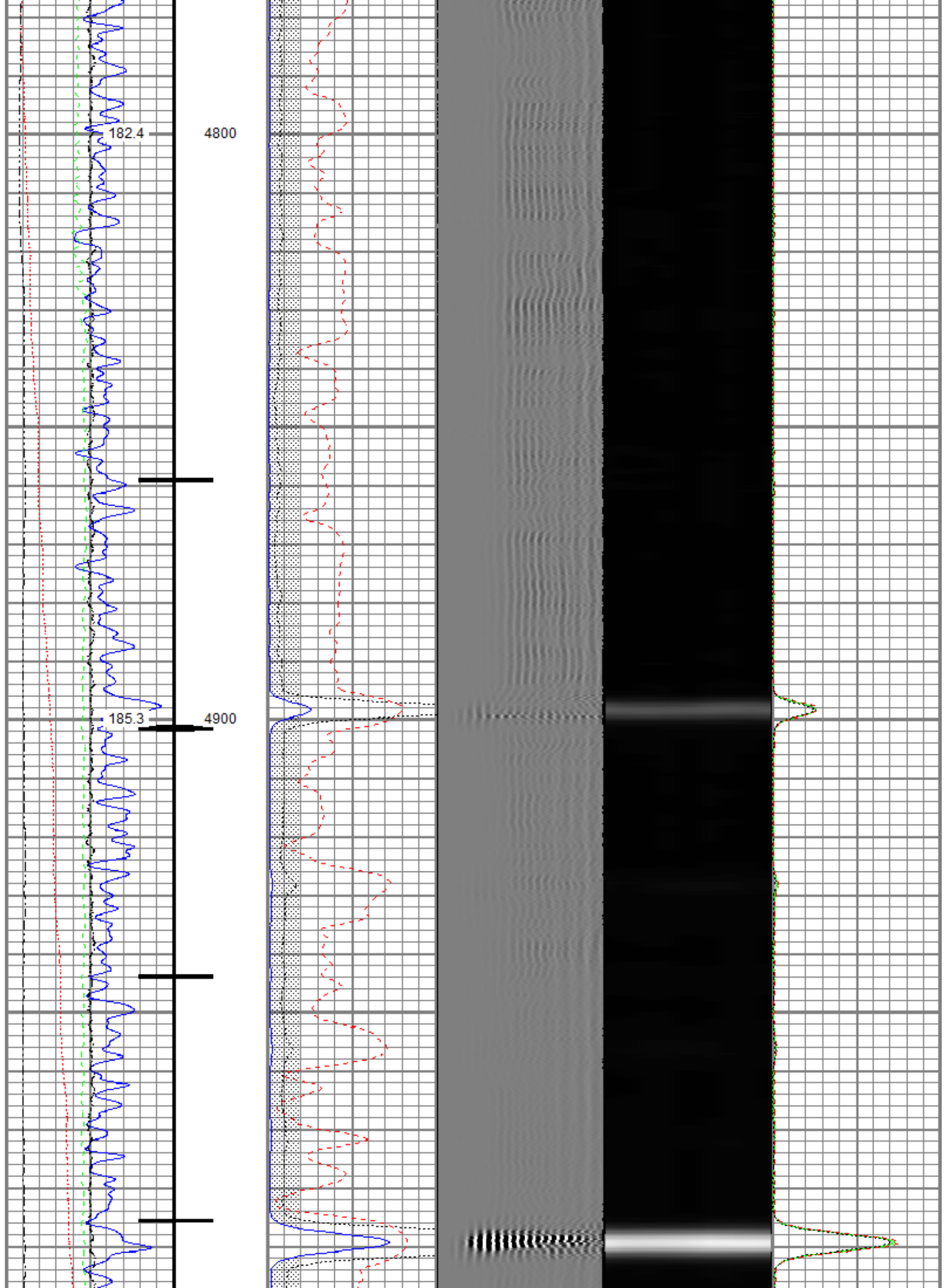


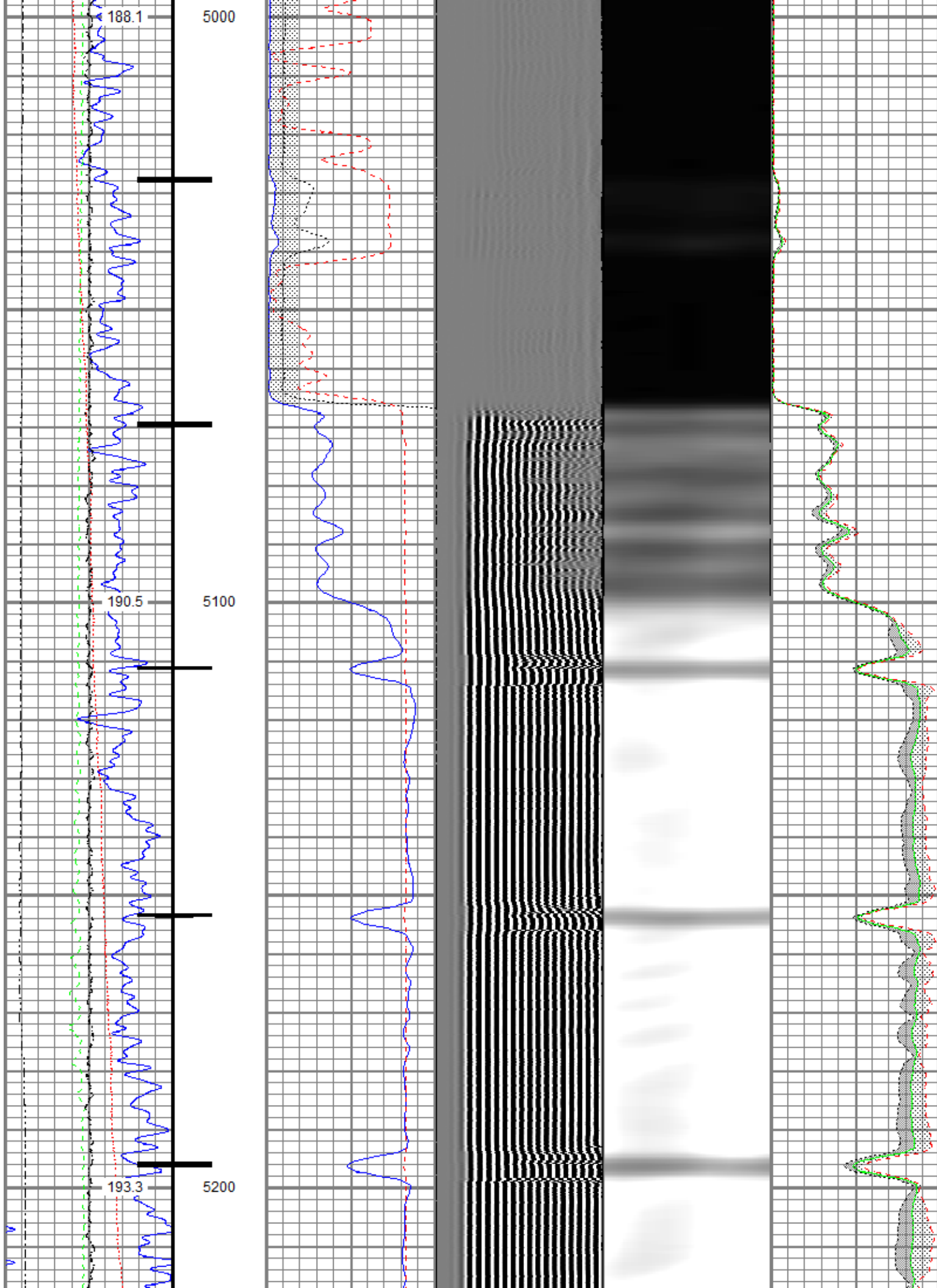


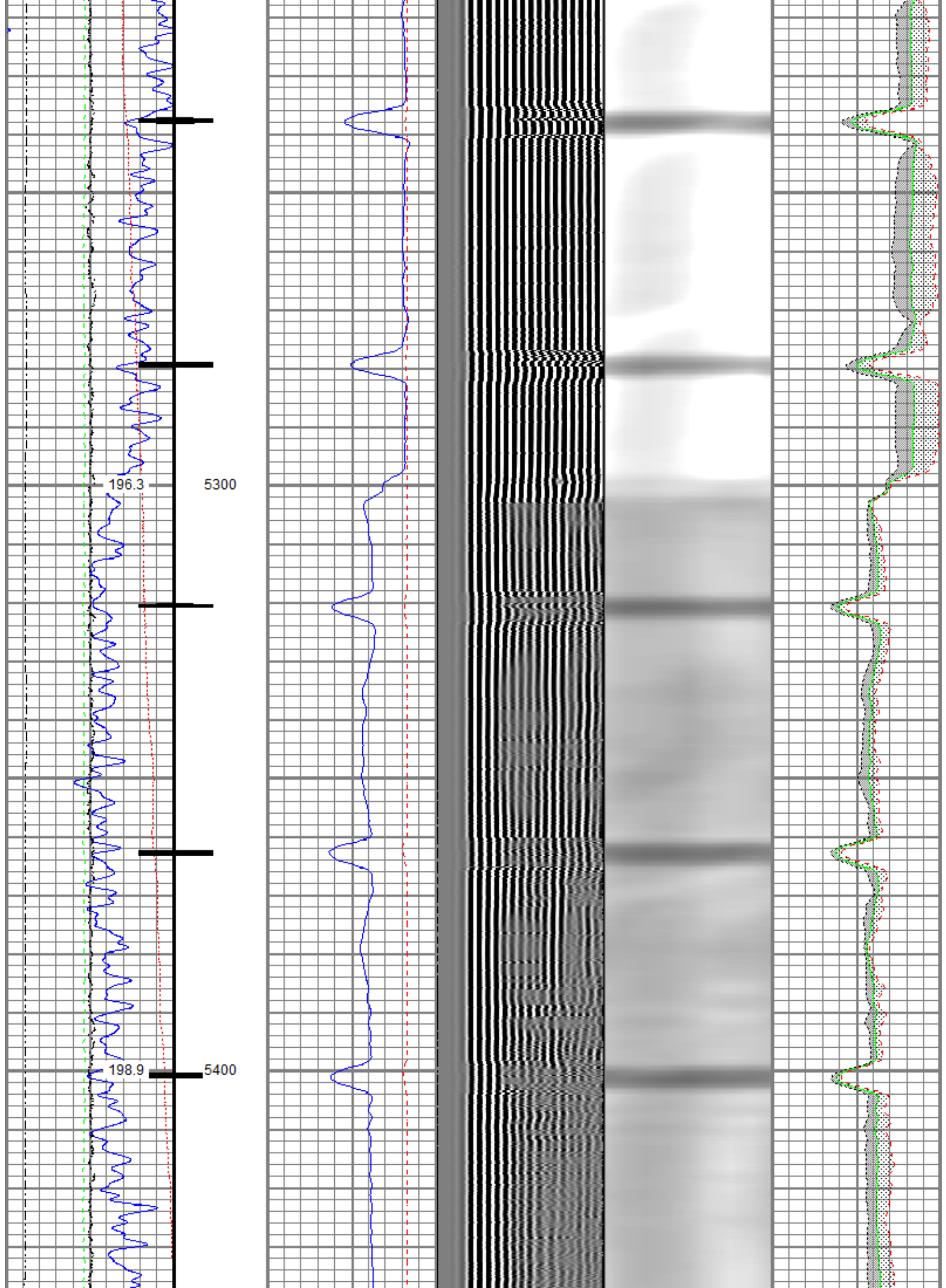


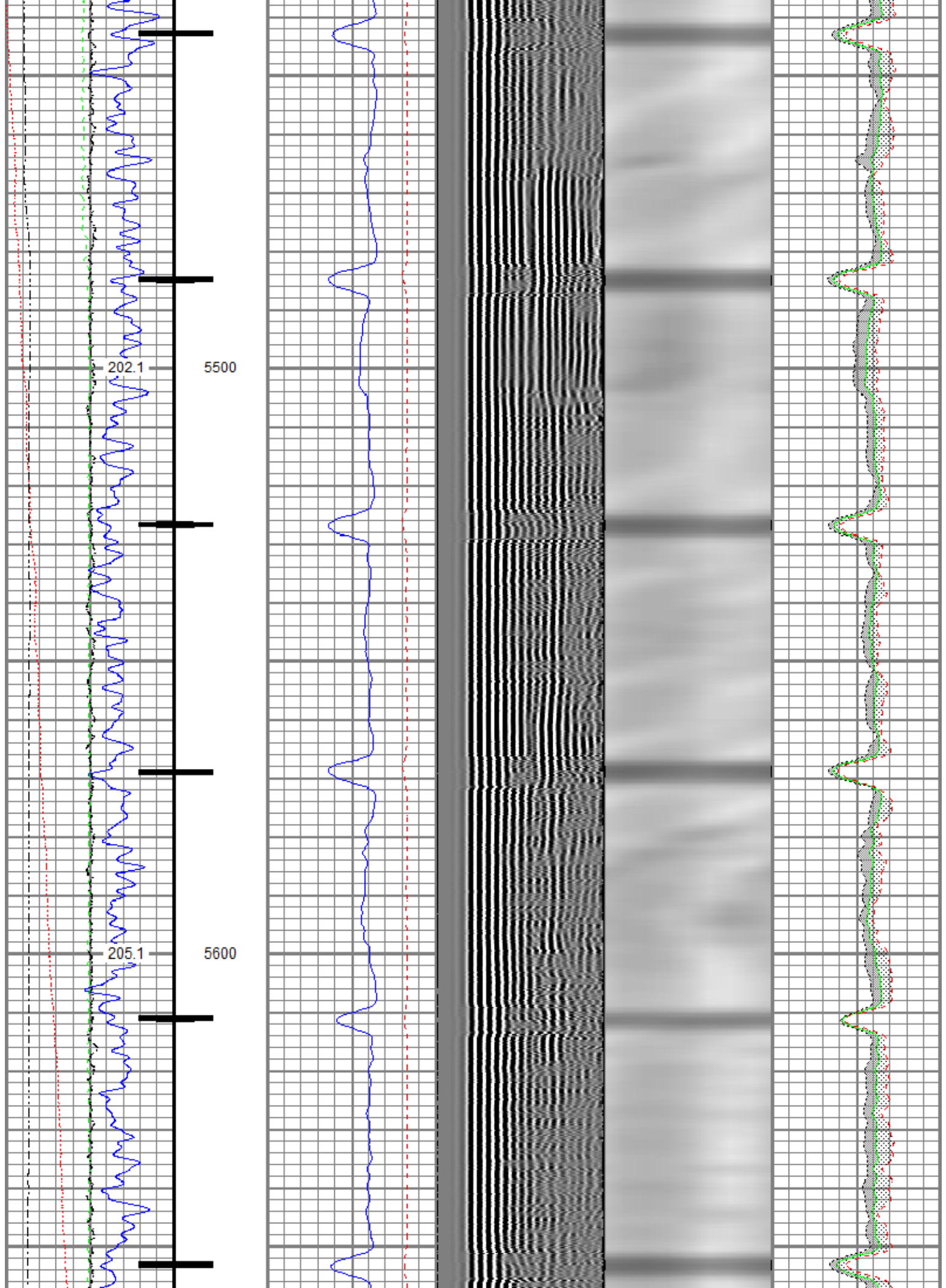


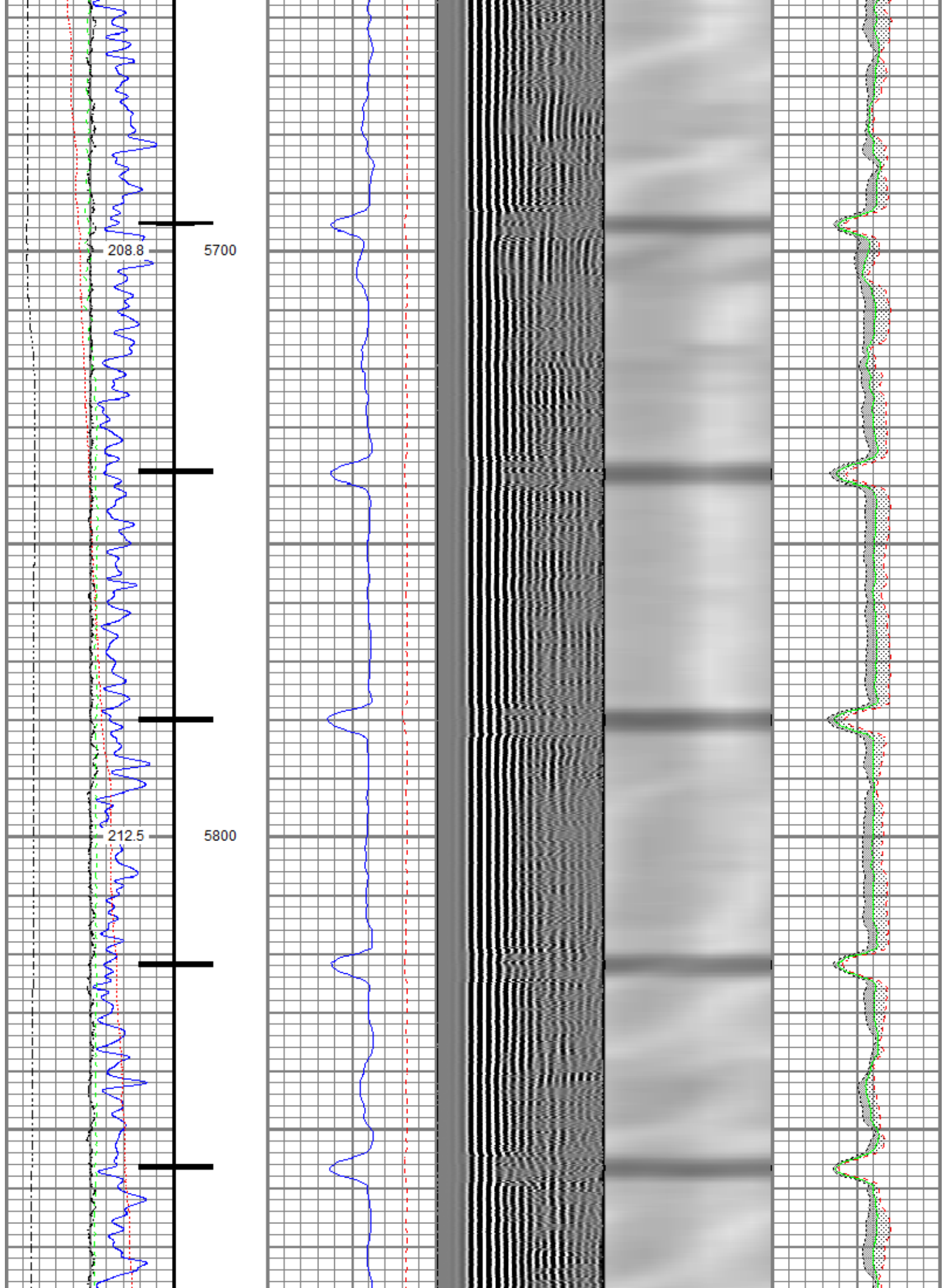


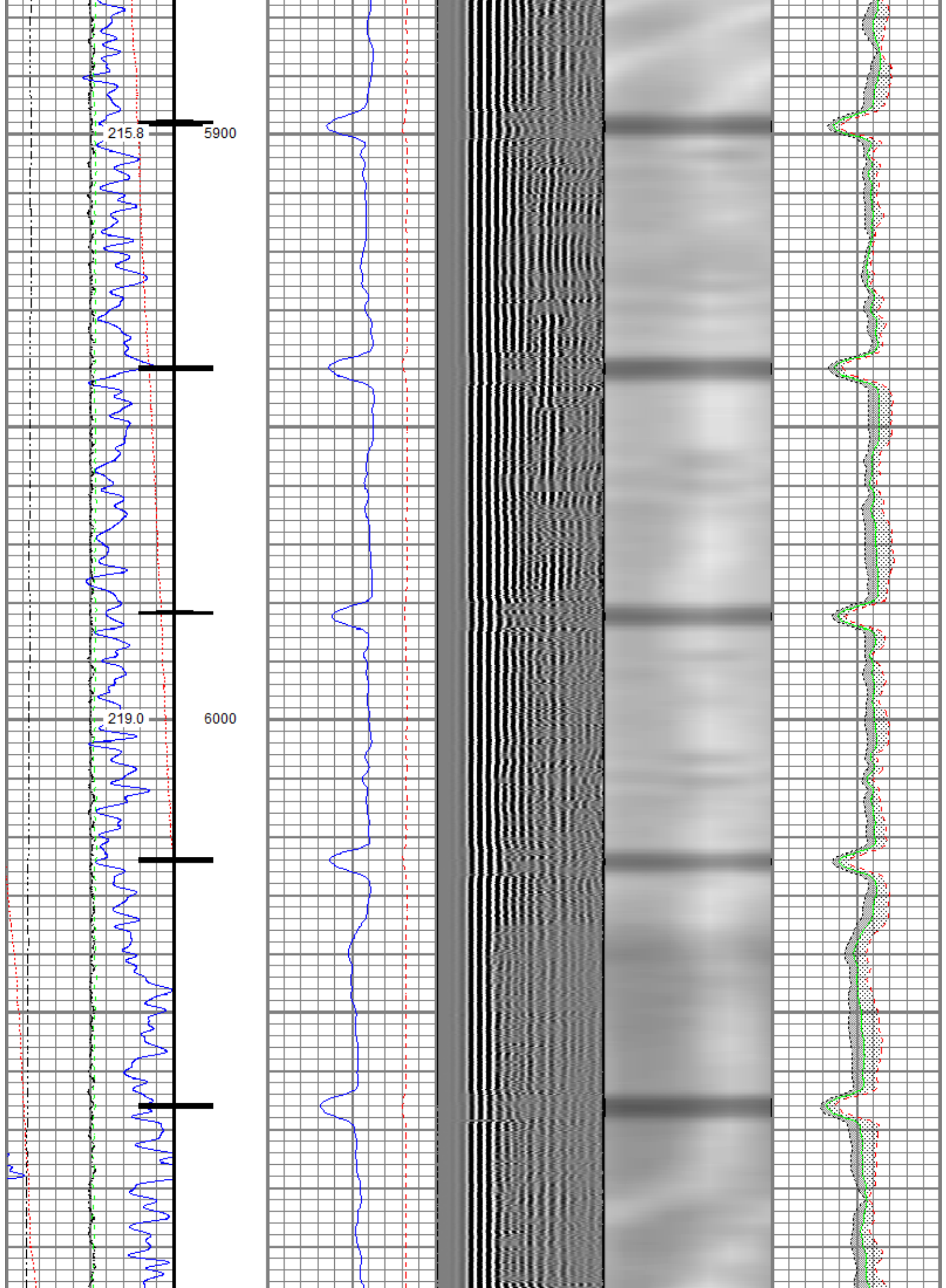


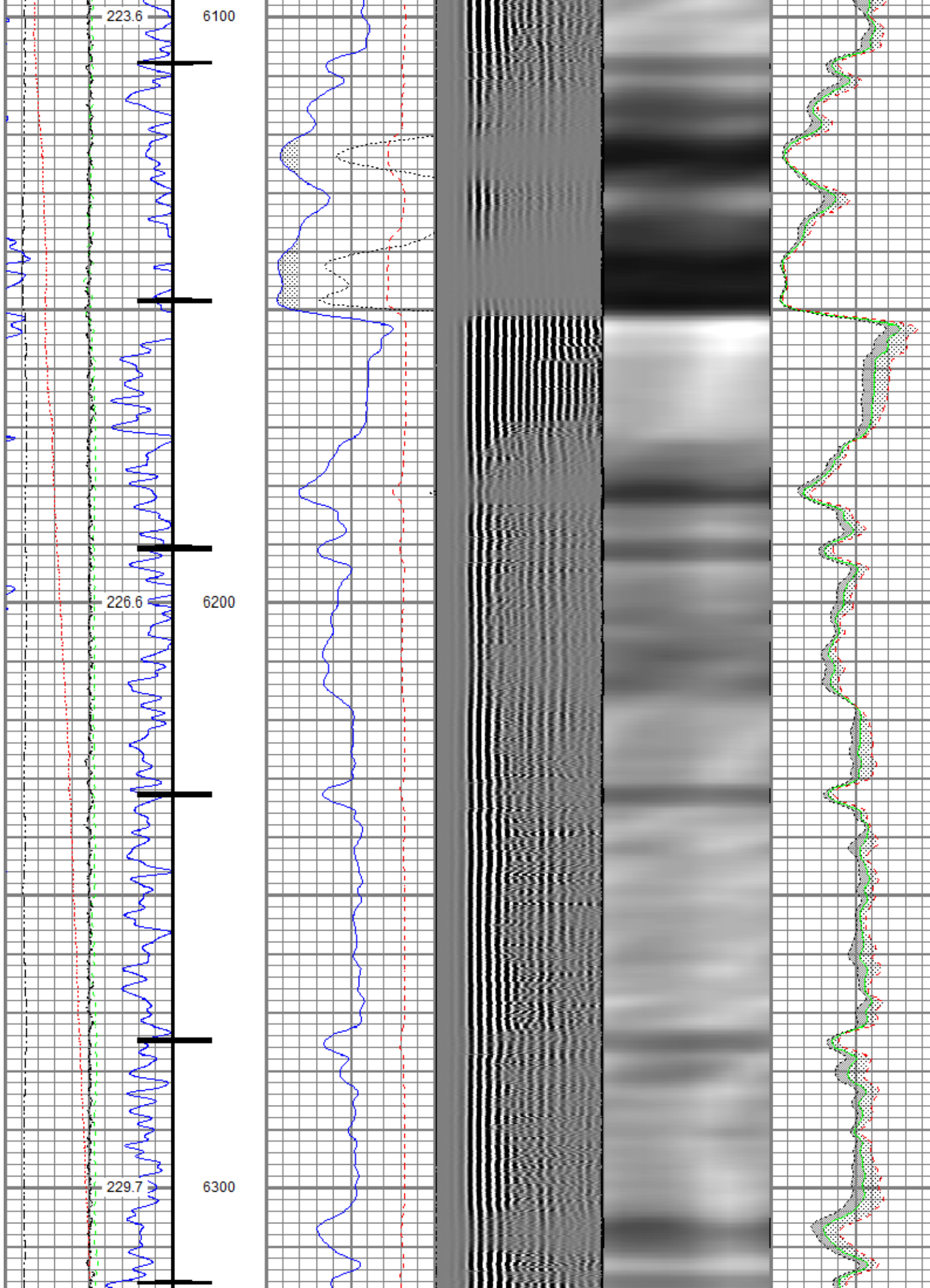












Gamma Ray (GAPI)	0 120	3' Amplitude (mV)	100	5' Variable Density Log (usec)	200 1200	Sector Map	Average Amplitude	0 100
Temperature (degF)	0 20	3' Amplitude x 5 (mV)	20				Minimum Amplitude	0 100
Line Speed (ft/min)	-150 150	3' Travel Time (usec)	150				Maximum Amplitude	0 100
Line Tension (lb)000	0							
Differential Temperature (degF)	-2 2							
Casing Collar Locator								

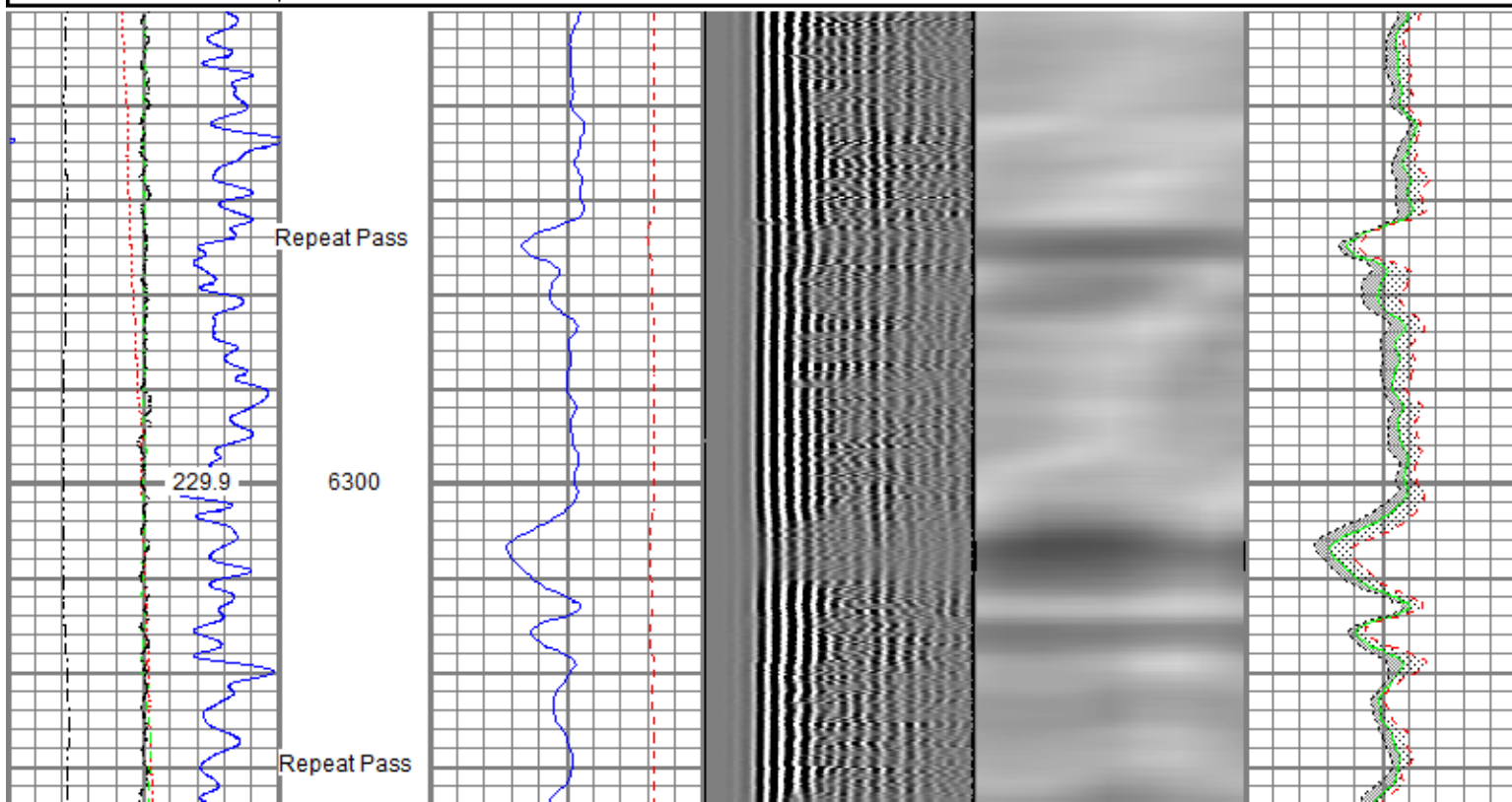


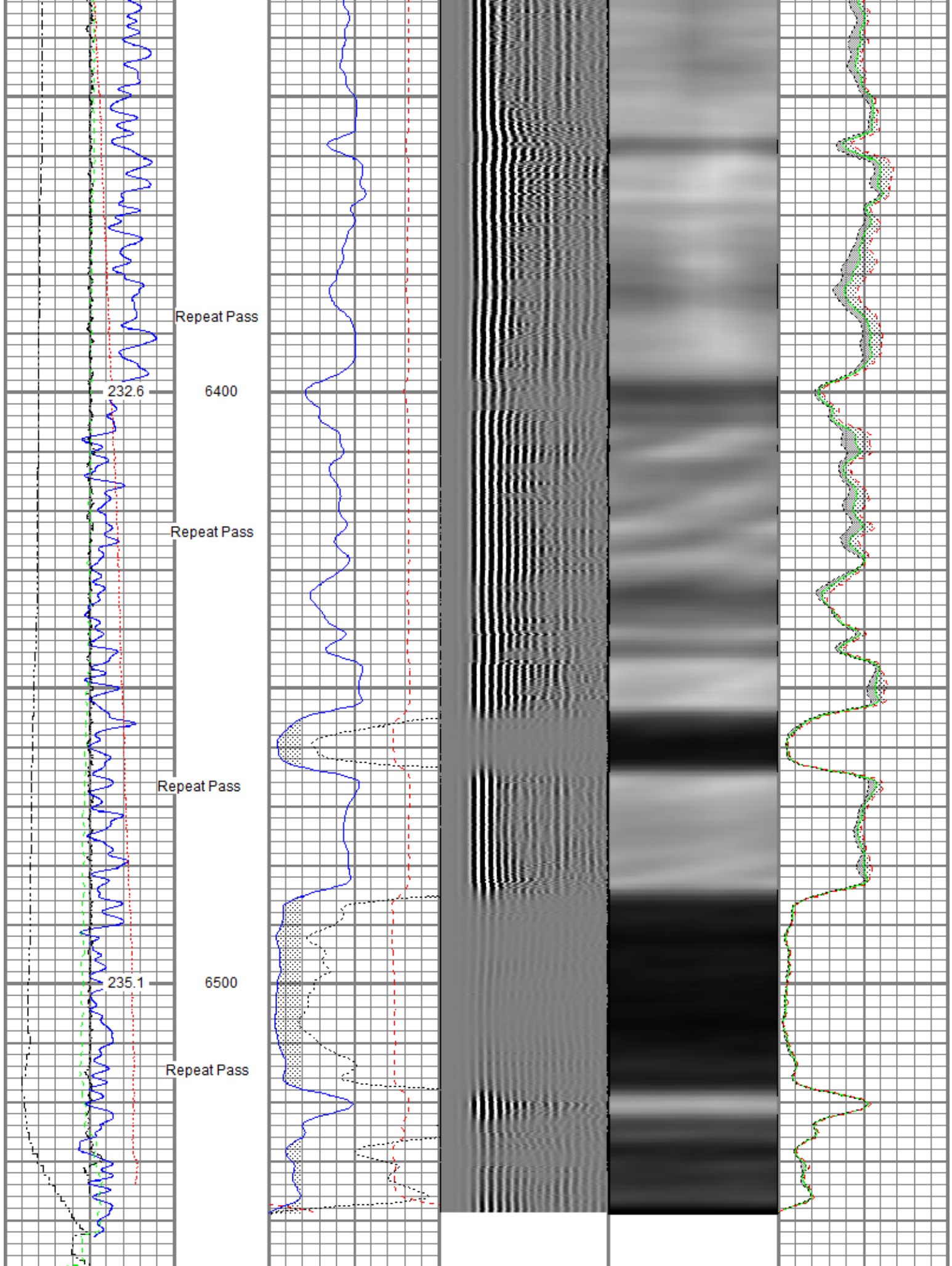
Repeat Section

Recorded With 500 PSI Surface Induced Pressure

Database File: anadarko_bb_drays_h_8-9_8-april-2019.db
 Dataset Pathname: repeat
 Presentation Format: ros_radii_anadarko_vert_gobo_35
 Dataset Creation: Mon Apr 08 13:00:37 2019
 Charted by: Depth in Feet scaled 1:240

Gamma Ray (GAPI)	0 120	3' Amplitude (mV)	100	5' Variable Density Log (usec)	200 1200	Sector Map	Average Amplitude	0 100
Temperature (degF)	0 20	3' Amplitude x 5 (mV)	20				Minimum Amplitude	0 100
Line Speed (ft/min)	-150 150	3' Travel Time (usec)	150				Maximum Amplitude	0 100
Line Tension (lb)000	0	GOBO						
Differential Temperature (degF)	-2 2							

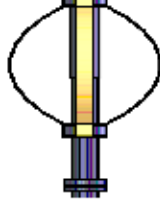




Gamma Ray (GAPI)	0 3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	Average Amplitude
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(GAPI)	120	3 Amplitude x 5	200	(usec)	1200	0	100	
Temperature	0	(degF)	20			Minimum Amplitude	0	100
Line Speed	-150	(ft/min)	150			Maximum Amplitude	0	100
Line Tension (lb)	0	000						
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	18.48						
WVFS8	16.25			Probe Radii-2750 RBT (FW1302-002) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
WVFS7	16.25						
WVFS6	16.25						
WVFS5	16.25						
WVFS4	16.25						
WVFS3	16.25						
WVFS2	16.25						
WVFS1	16.25						
WVFCAL	16.25						
WVF3FT	16.25						
WVF5FT	15.25						
HEADVOLT	12.00		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00	
CCL\$2	7.63		Probe CCL-2750 SA (FW1307-076) Probe 2-3/4" Digital Stand Alone Six Magnet Logging CCL	2.66	2.75	35.00	
CCL\$1	7.63						
GR	5.49		Probe GR-2750 SA (FW1307-078) Probe 2-3/4" Digital Stand Alone Gamma Ray	3.33	2.75	55.00	
			GO BN-14375 GO 1-7/16" Bull Nose with Go Box Top	0.25	1.44	1.00	



Probe CENT-2750
 Probe 2-3/4" Electric Inline Bowspring Centralizer

2.88

2.75

20.00

Dataset: anadarko_bb_drays_h_8-9_8-april-2019.db: field/well/run1/toolstring
 Total length: 25.31 ft
 Total weight: 259.60 lb
 O.D.: 2.75 in

Calibration Report

Database File anadarko_bb_drays_h_8-9_8-april-2019.db
 Dataset Pathname main1.1
 Dataset Creation Mon Apr 08 14:20:37 2019

Gamma Ray Calibration Report

Serial Number: FW1307-078
 Tool Model: 2750 SA
 Performed: Mon Oct 01 11:32:38 2018

Calibrator Value: 637.0 GAPI

Background Reading: 108.2 cps
 Calibrator Reading: 1134.5 cps

Sensitivity: 0.6207 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1302-002
 Tool Model: 2750 RBT

Calibration Casing Diameter: 3.500 in
 Calibration Depth: 1031.888 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.000	0.589	0.800	94.517	159.037	0.871
CAL	0.006	0.603				
5'	0.002	0.511	0.800	94.517	184.152	0.479
SUM						
S1	-0.003	0.602	0.000	100.000	165.290	0.498
S2	0.001	0.628	0.000	100.000	159.453	-0.119
S3	-0.001	0.645	0.000	100.000	154.751	0.177
S4	-0.001	0.666	0.000	100.000	149.924	0.134
S5	-0.002	0.659	0.000	100.000	151.401	0.249
S6	-0.001	0.637	0.000	100.000	156.568	0.230
S7	-0.003	0.620	0.000	100.000	160.332	0.535
S8	-0.002	0.606	0.000	100.000	164.390	0.377

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.603	1.000	0.000

Air Zero Calibration, performed Mon Apr 08 11:49:43 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: FW1302-002
 Tool Model: 2750 RBT
 Performed: Mon Oct 01 11:32:15 2018

	Reference	Reading
Low Reference:	100.00 degF	110.72 degF
High Reference:	350.00 degF	409.18 degF

Gain: 0.84
 Offset: 7.26
 Delta Spacing: 1



RELIANCE
 OILFIELD SERVICES

Company Kerr-McGee Oil & Gas Onshore, L.P.
Well BB Draw H 8-9
Field Wattenberg
County Weld
State Colorado