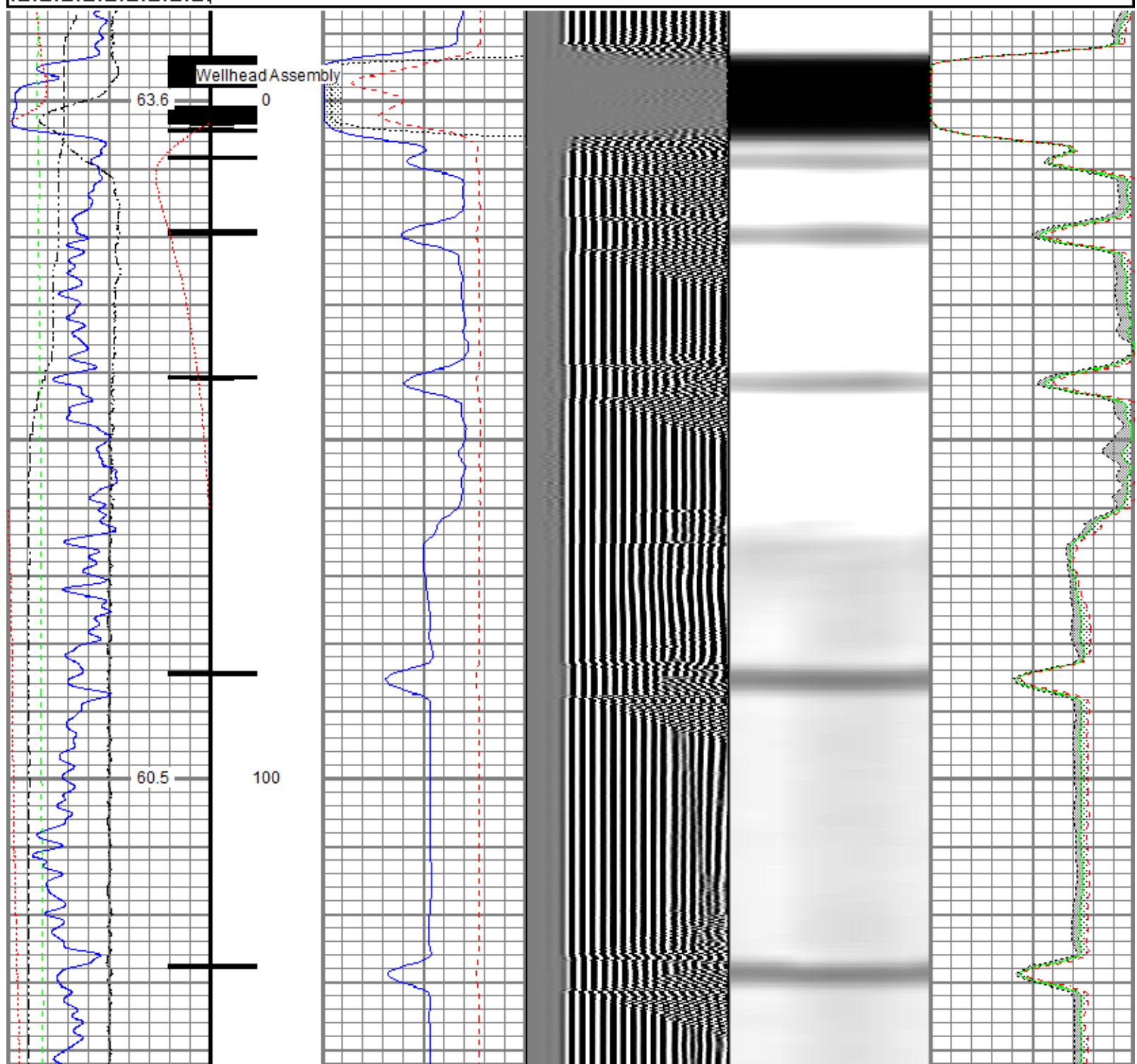


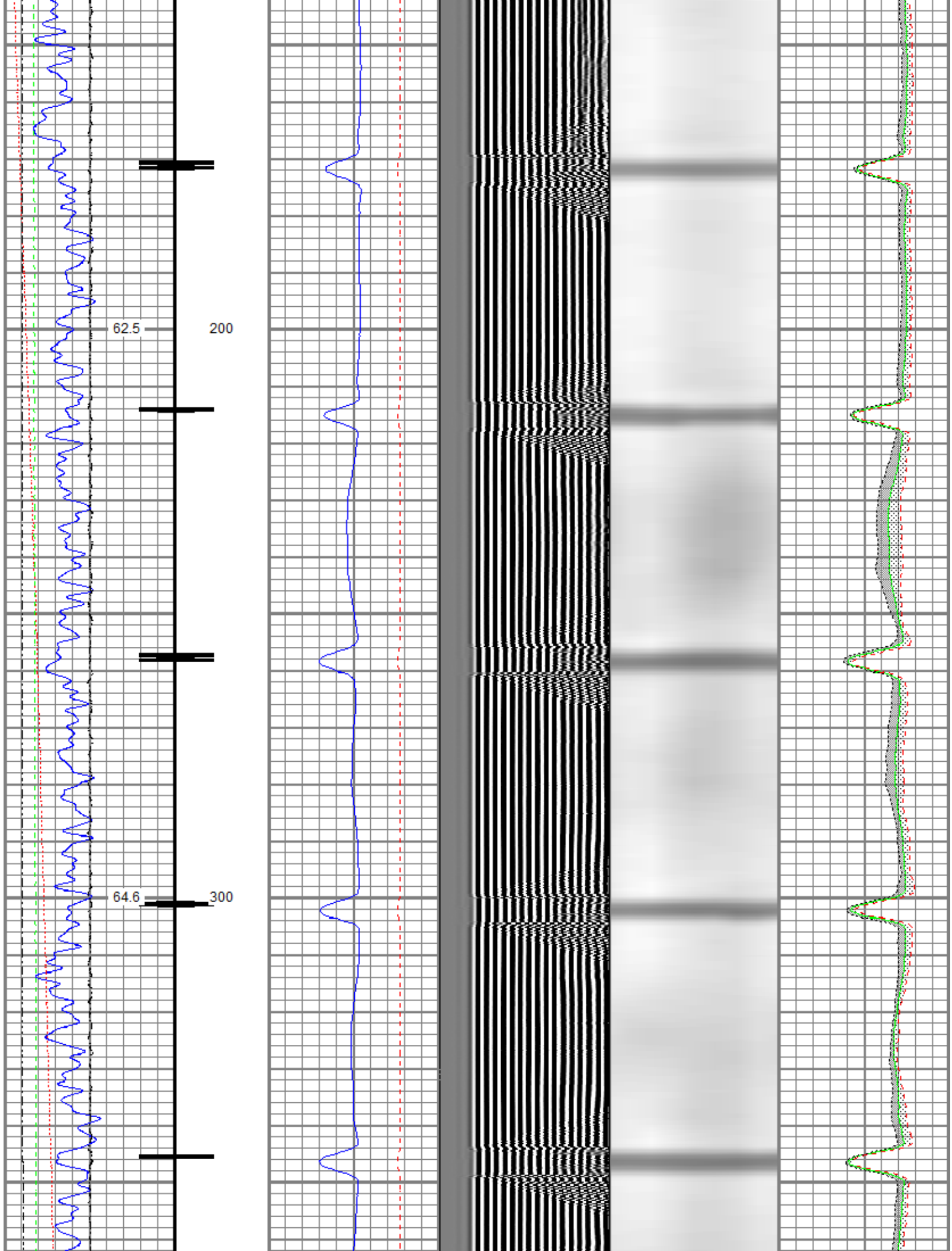


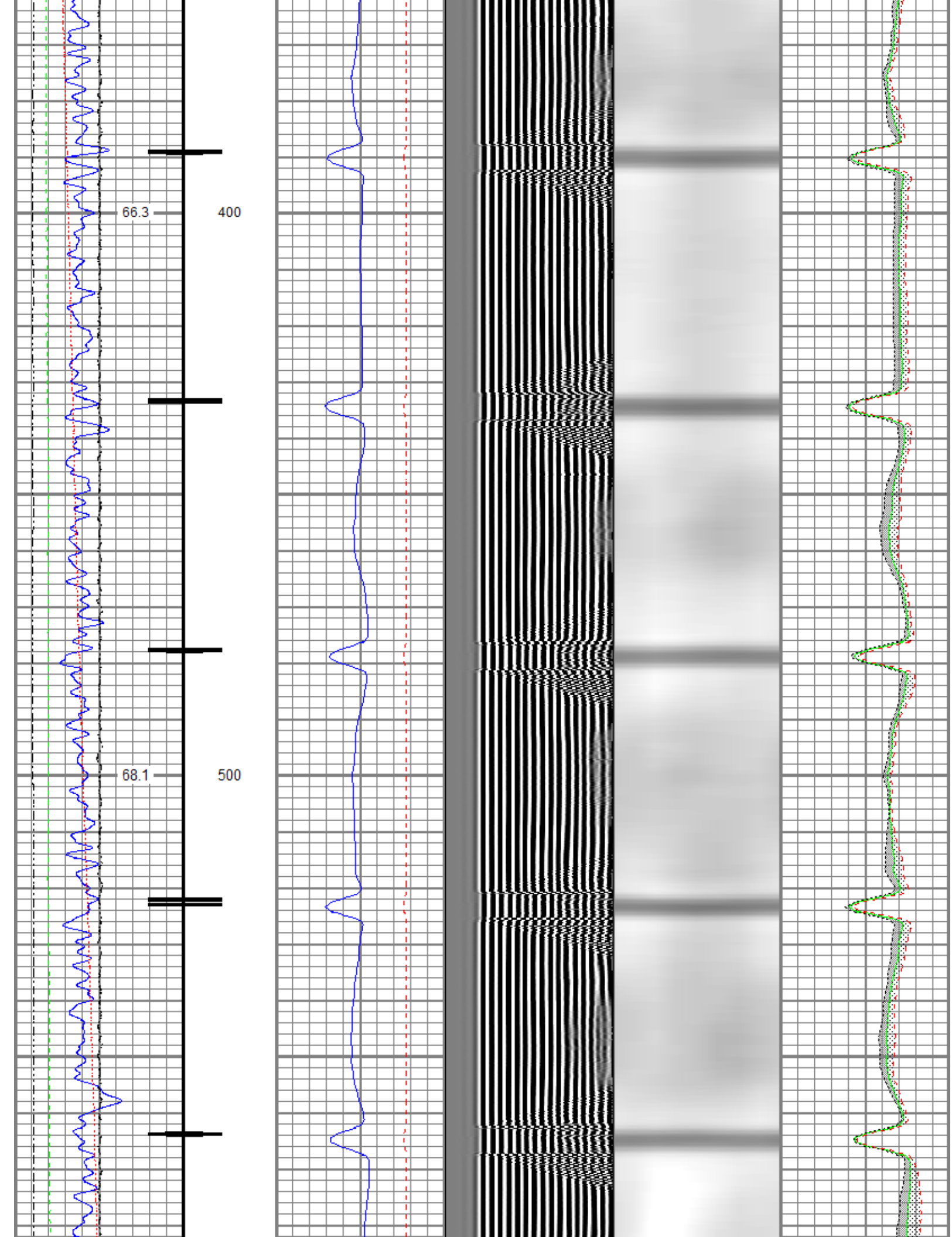
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 6780 FT Adjusted +9 FT to correlate with Marker Joint Gauge Ring/Junk Basket ran to 7787 FT Retrievable Bridge Plug set at 6861 FT Log ran with 0 PSI Surface Induced Pressure Logging tools were clean and free of debris upon completion of operations Thank you for choosing Reliance Oilfield Services, LLC!!

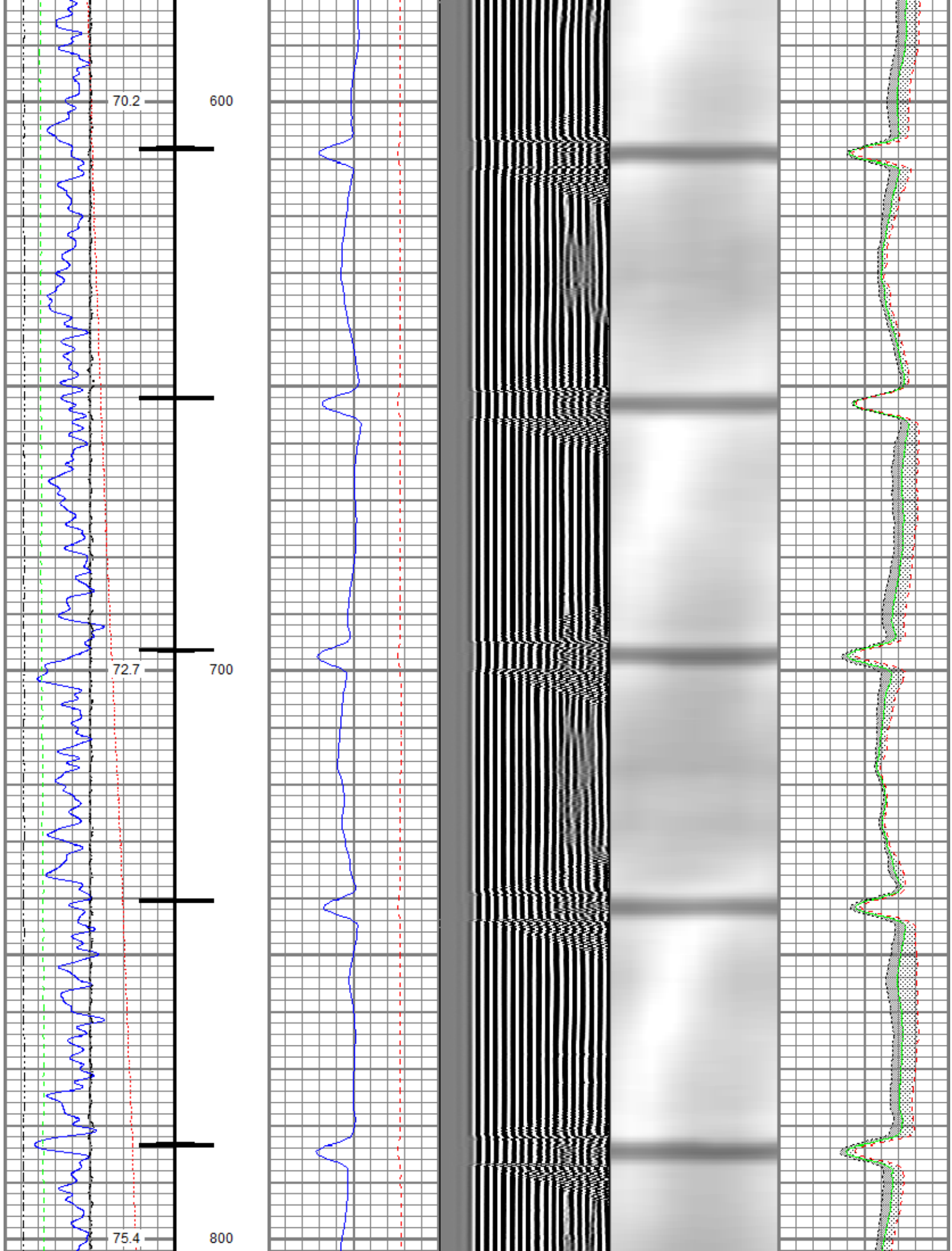
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Dataset Pathname	rbl/pass5.1
Presentation Format	ros_radri
Dataset Creation	Sun Jun 23 09:28:37 2019
Charted by	Depth in Feet scaled 1:240

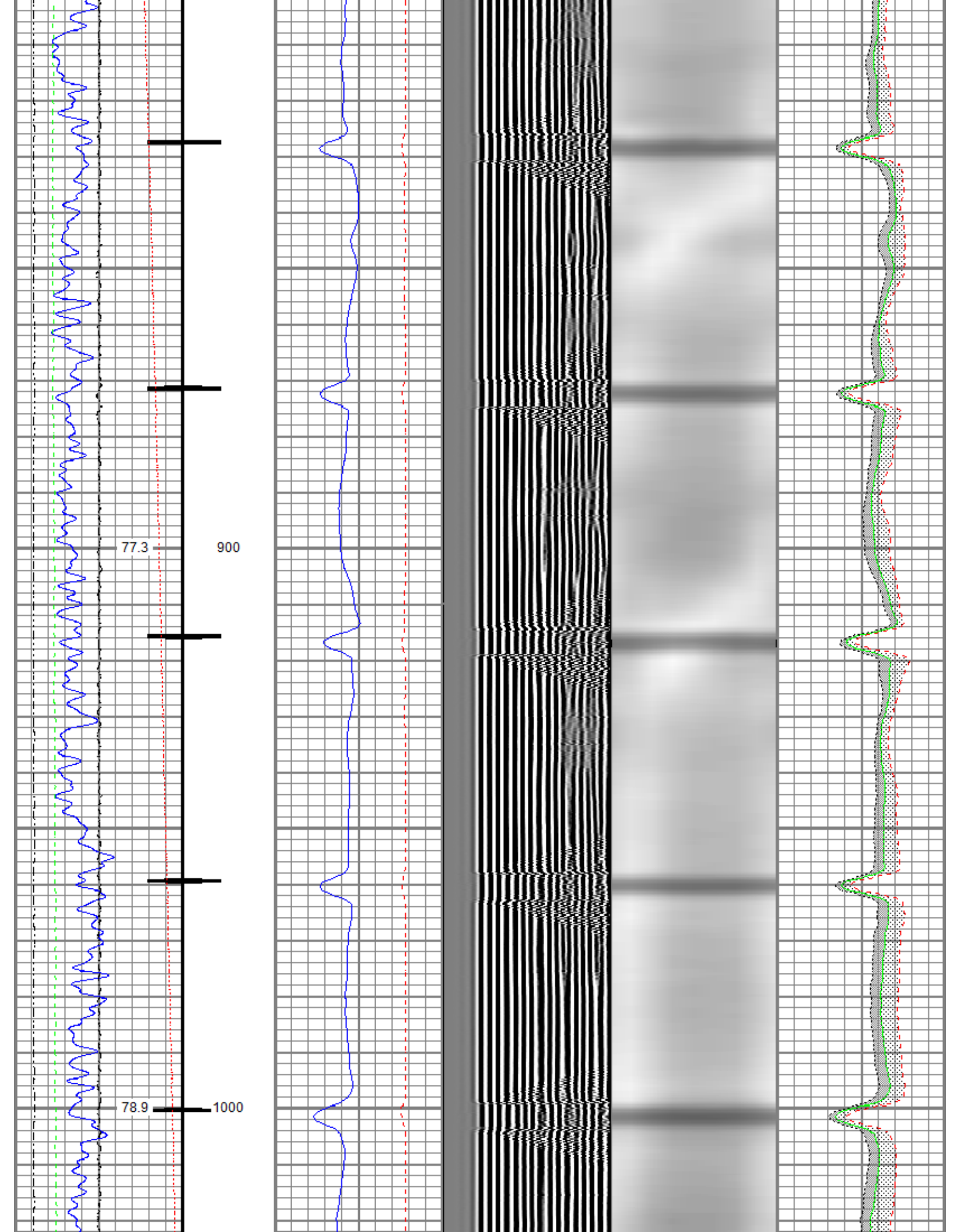
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min)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

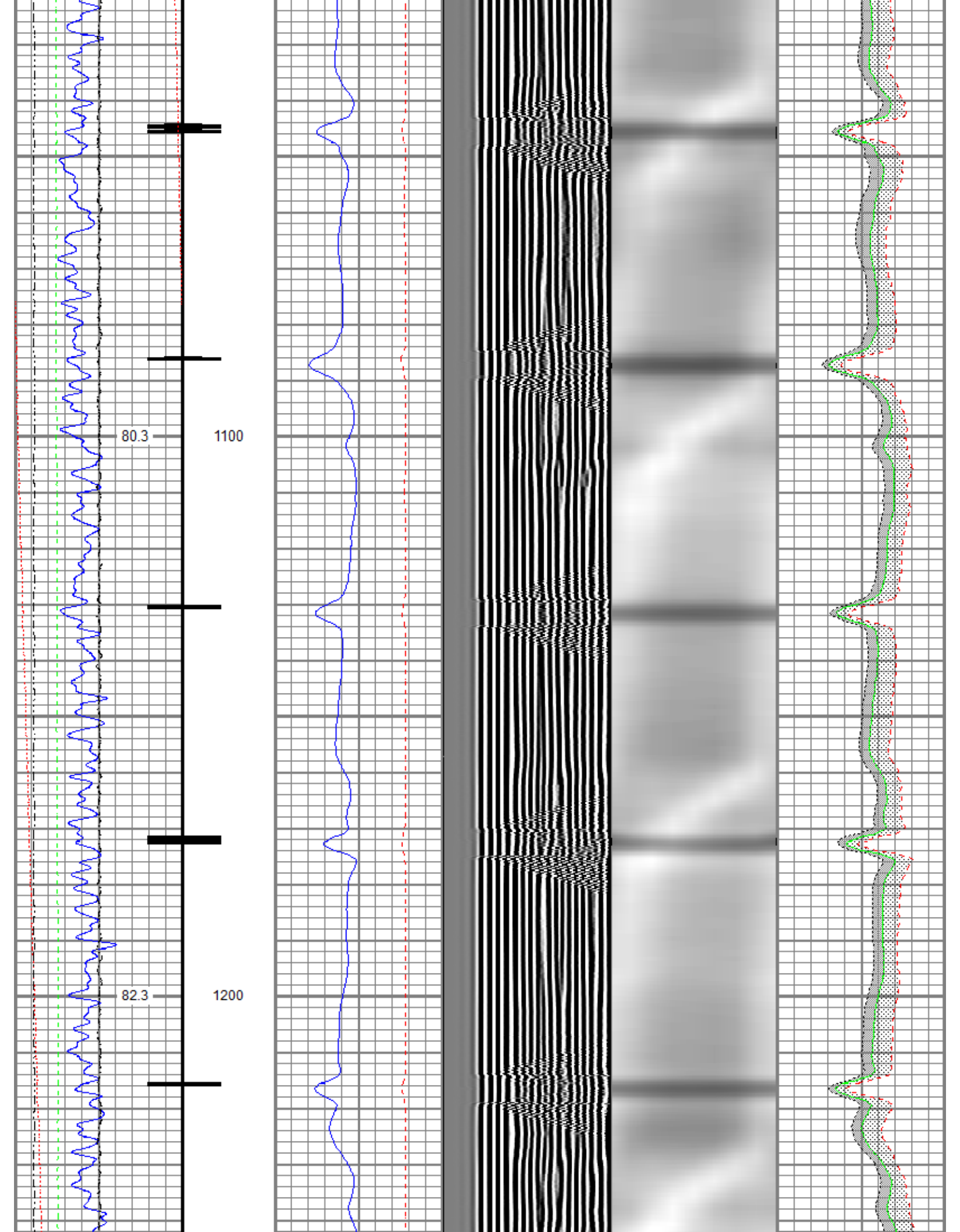


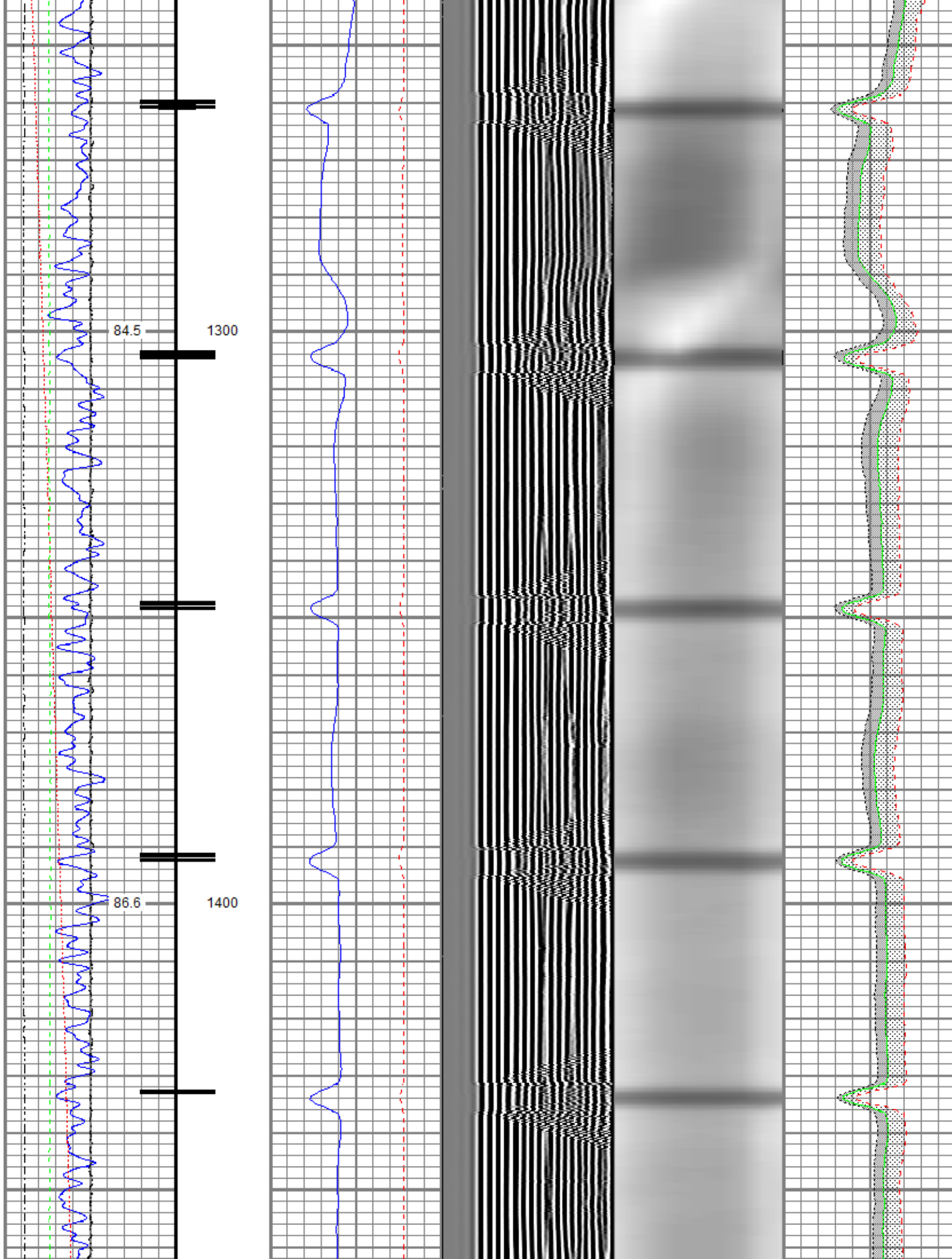


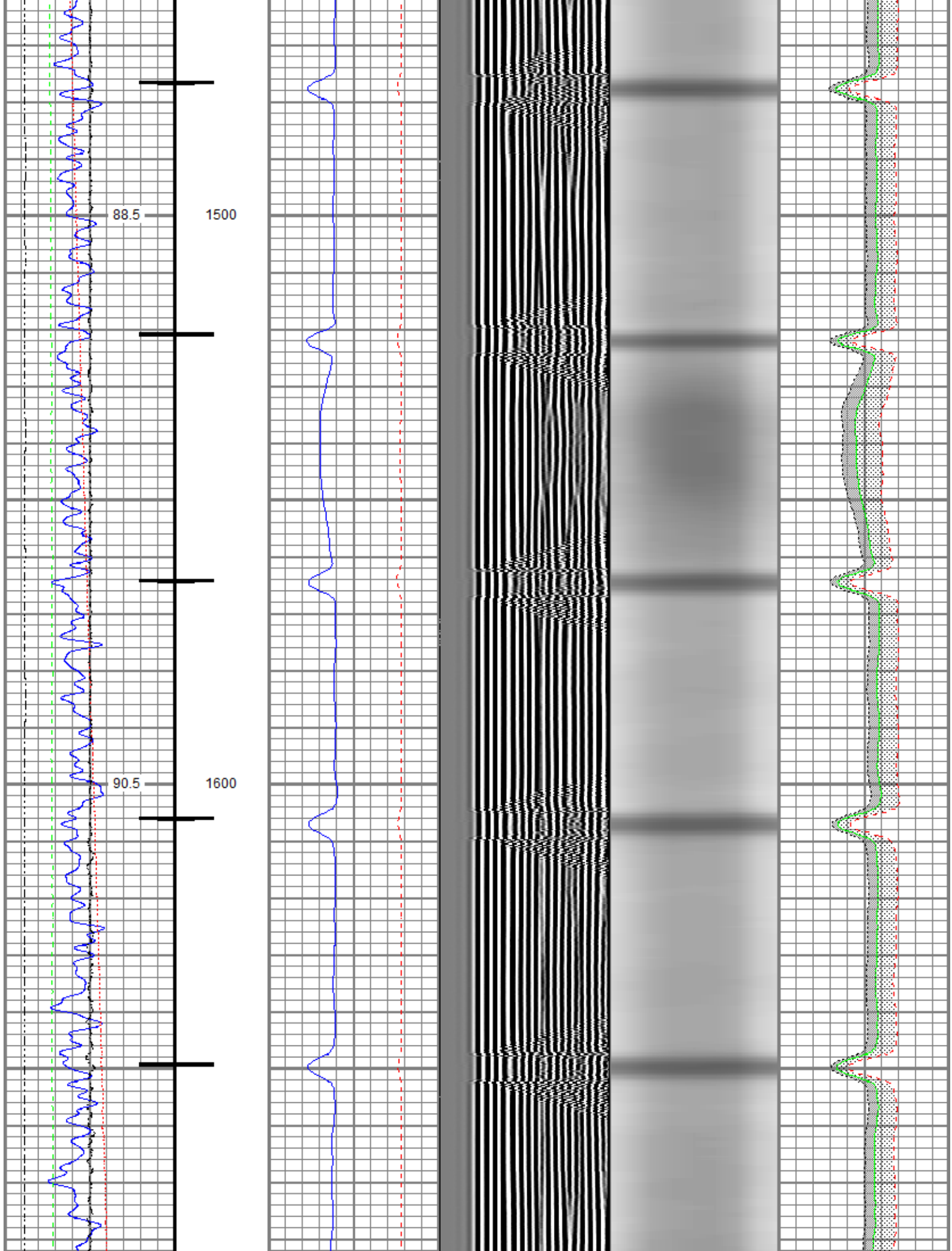


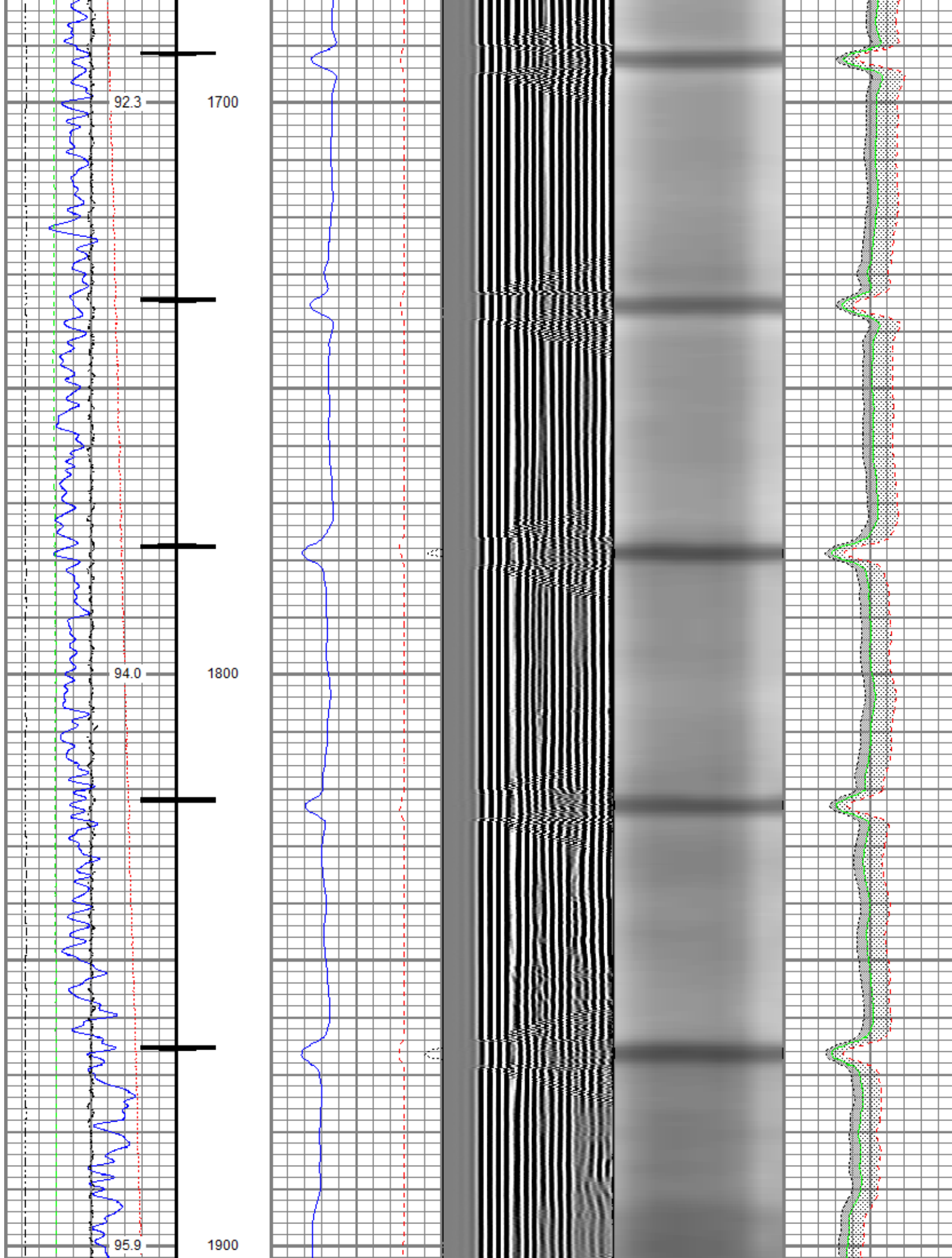


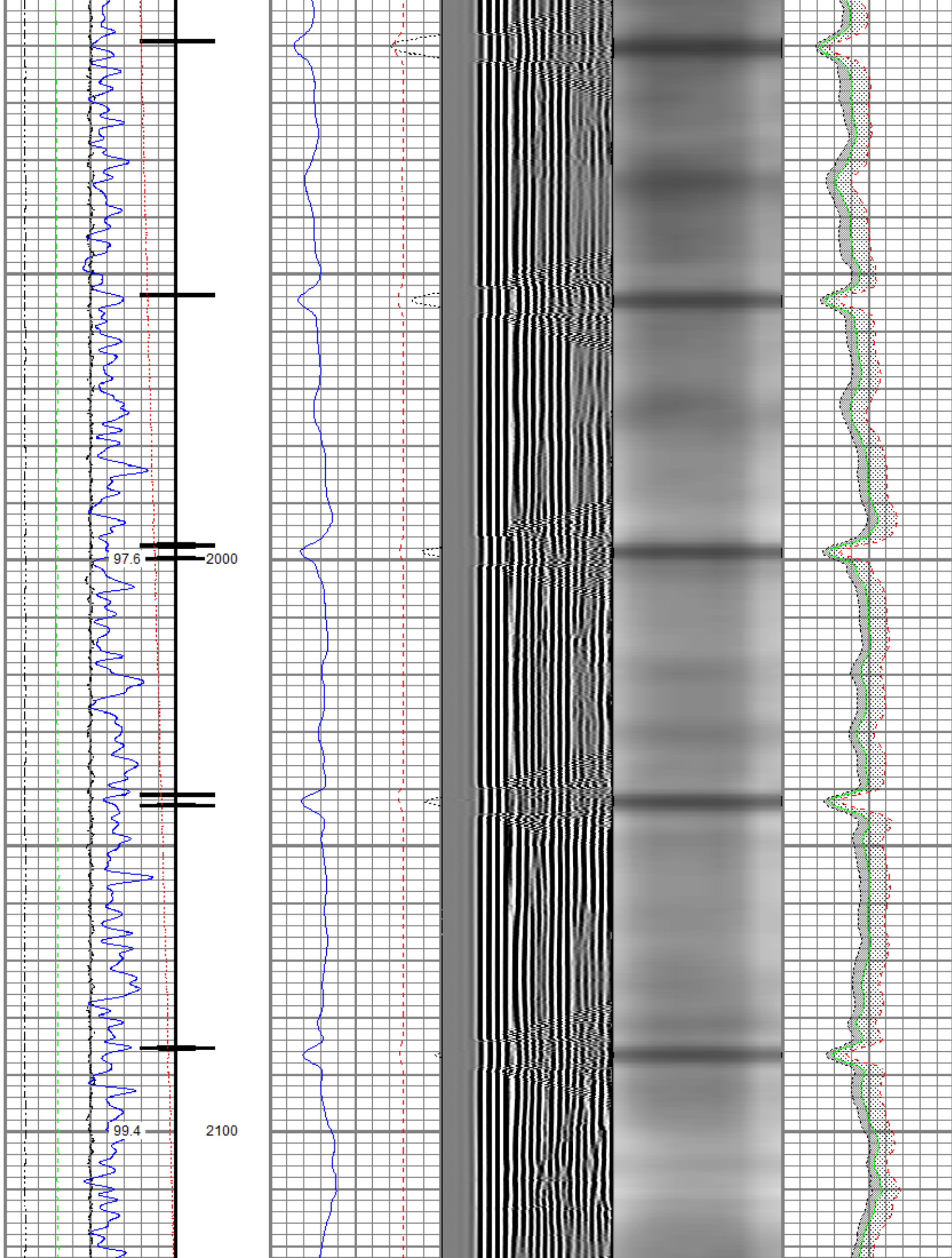


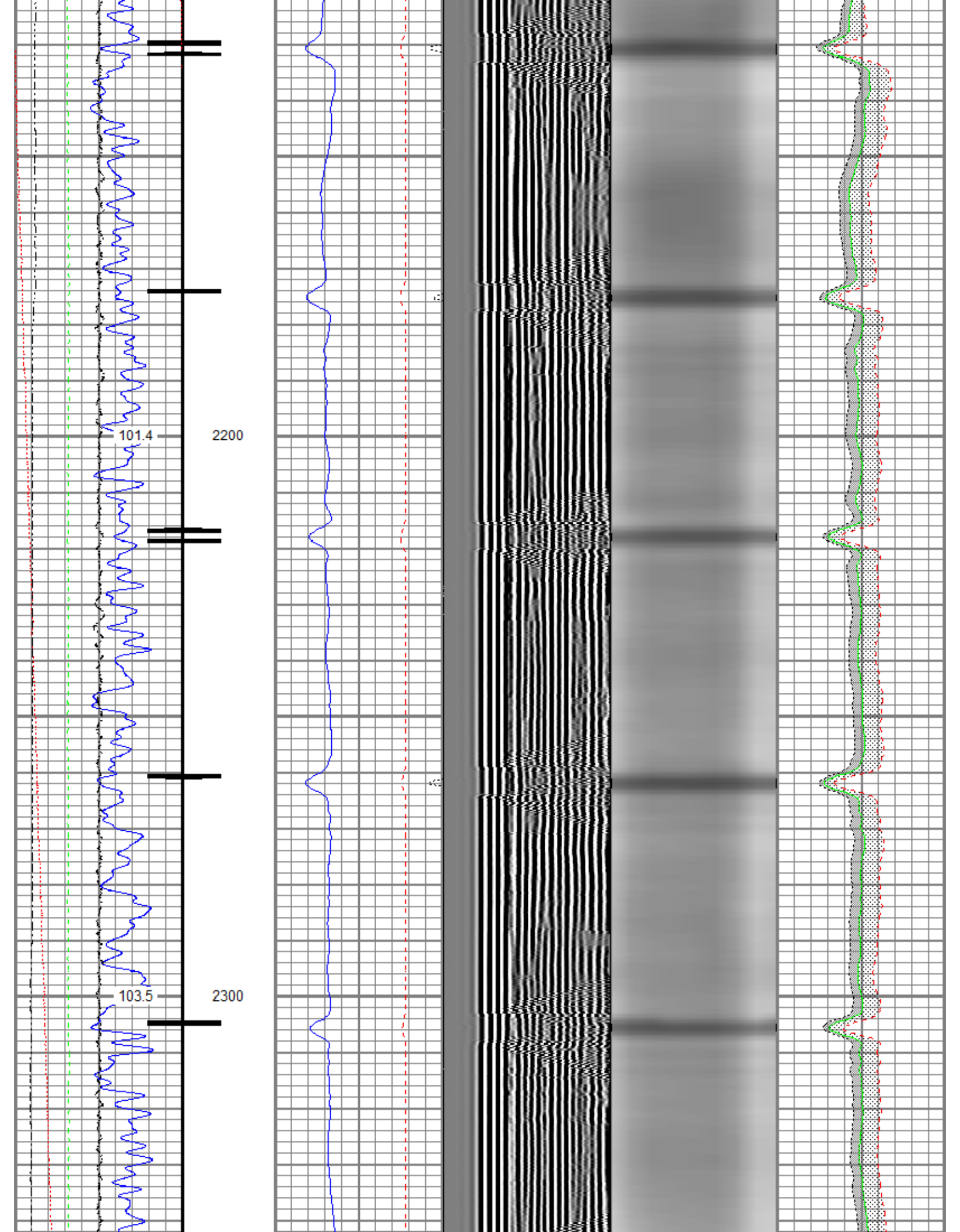


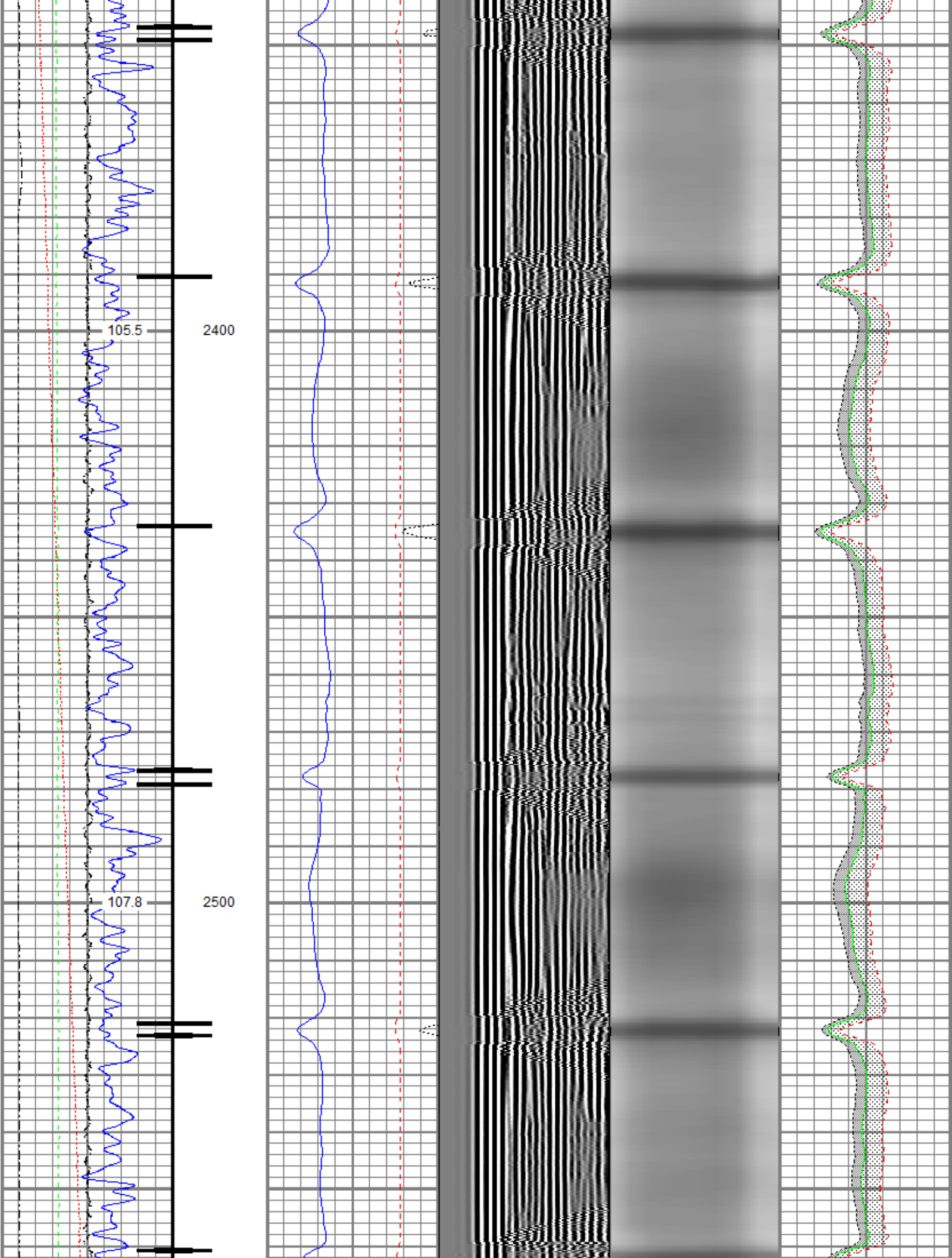


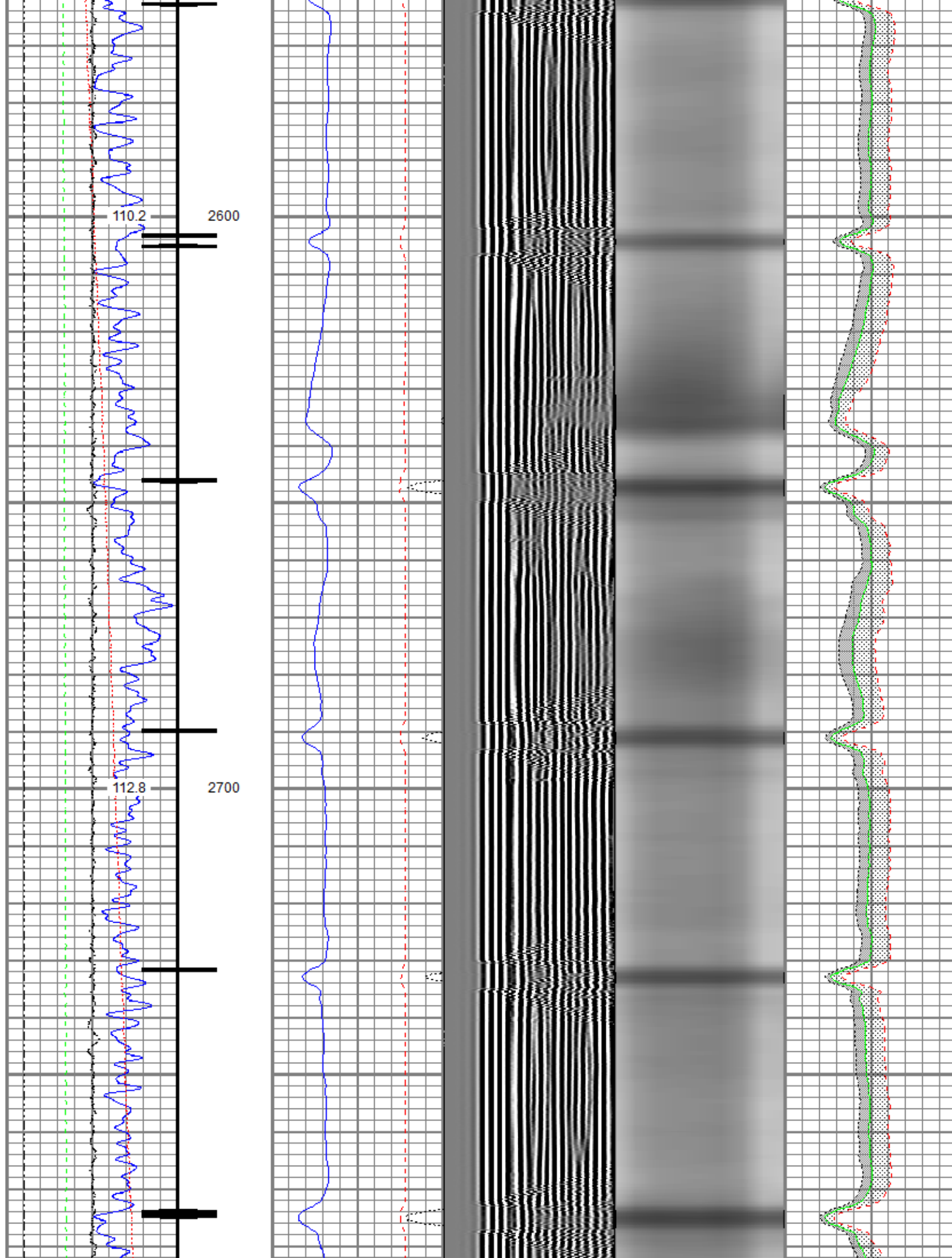


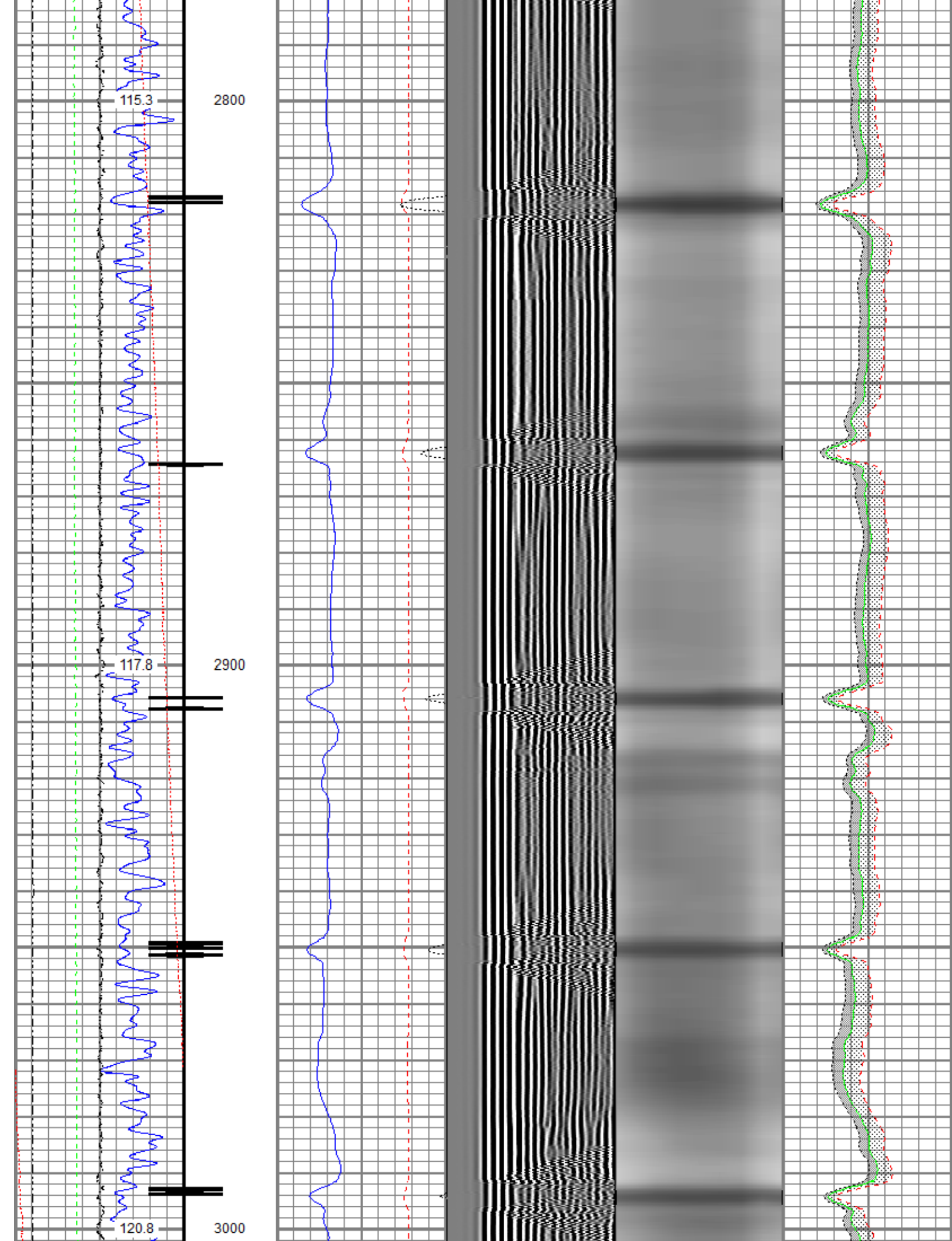


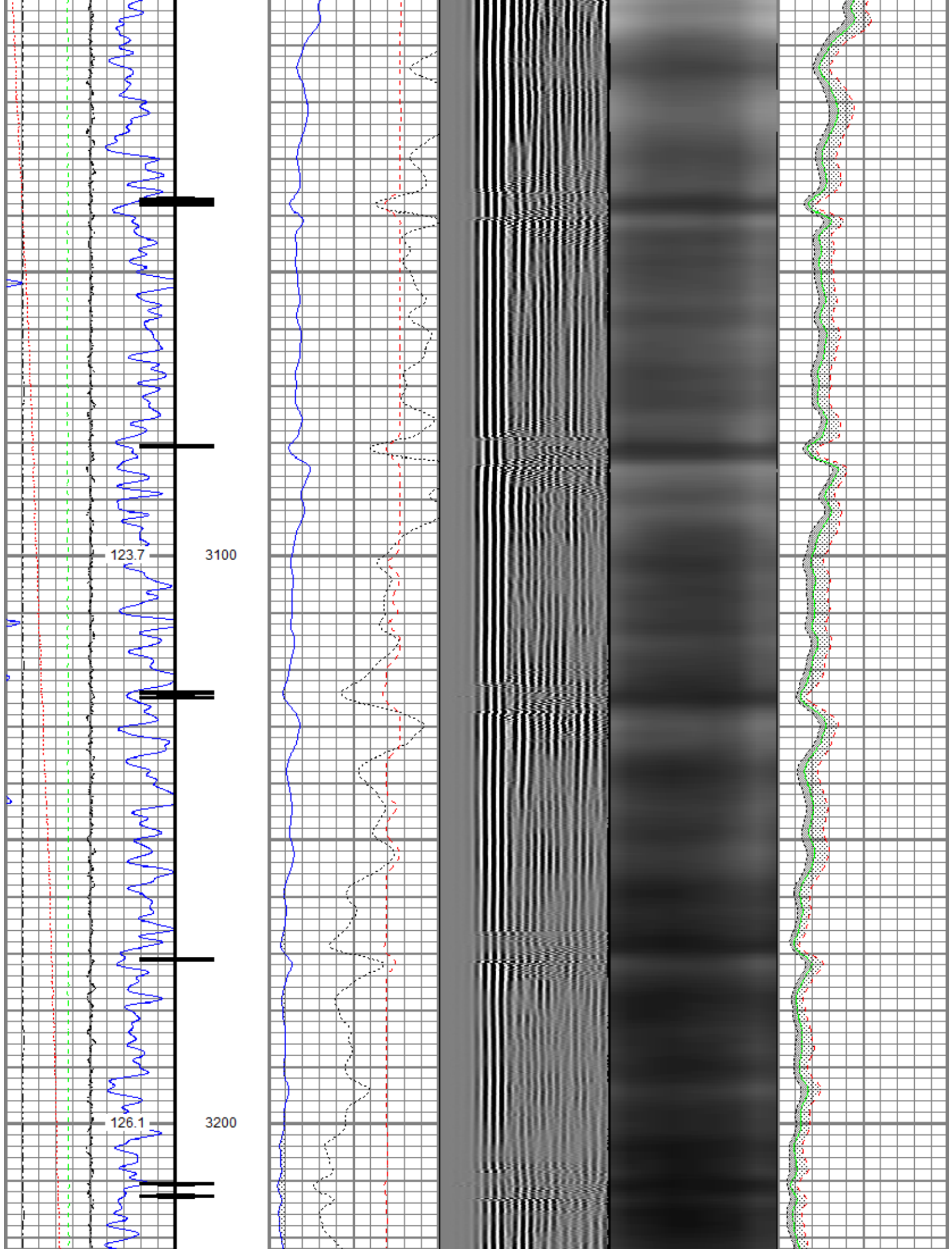


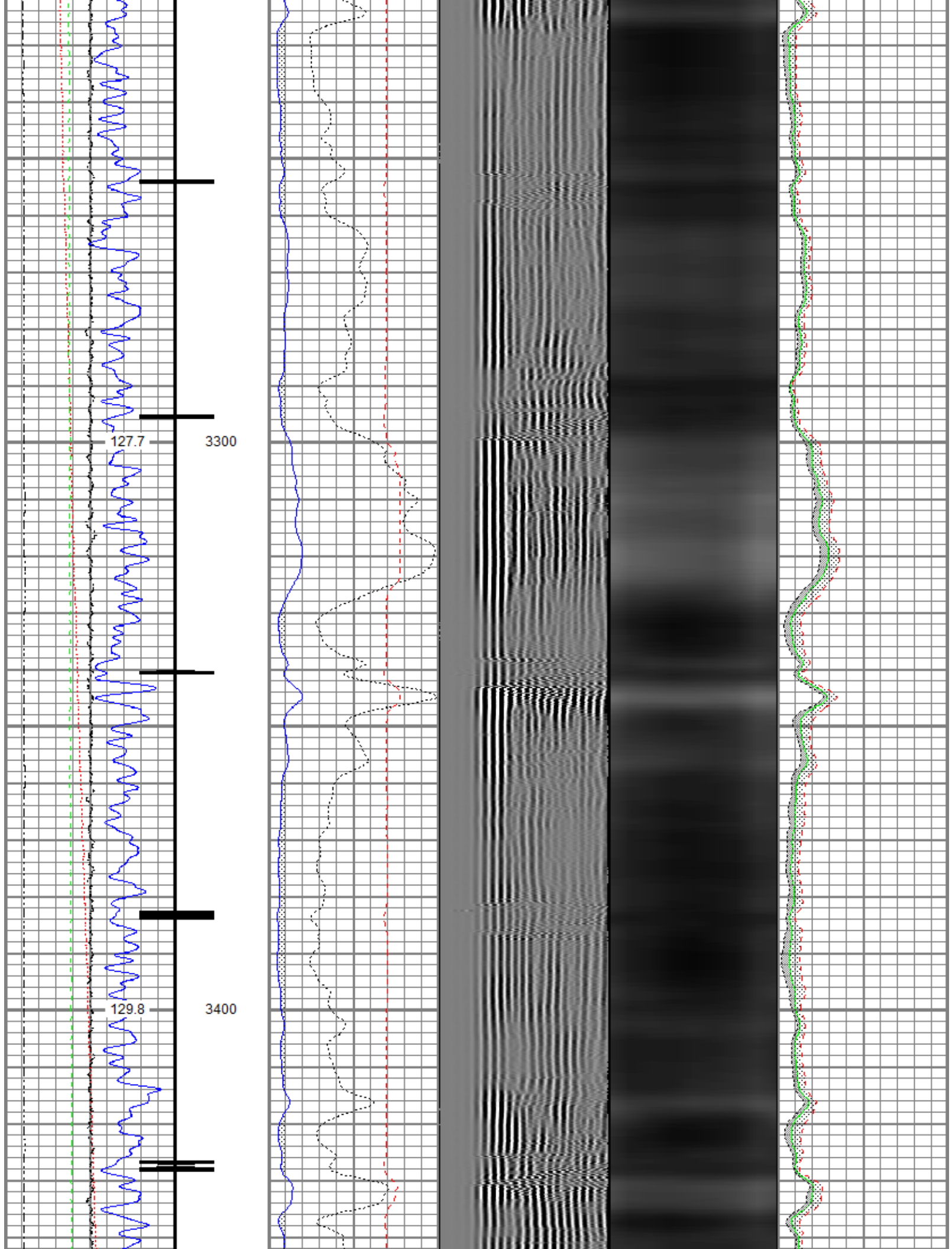


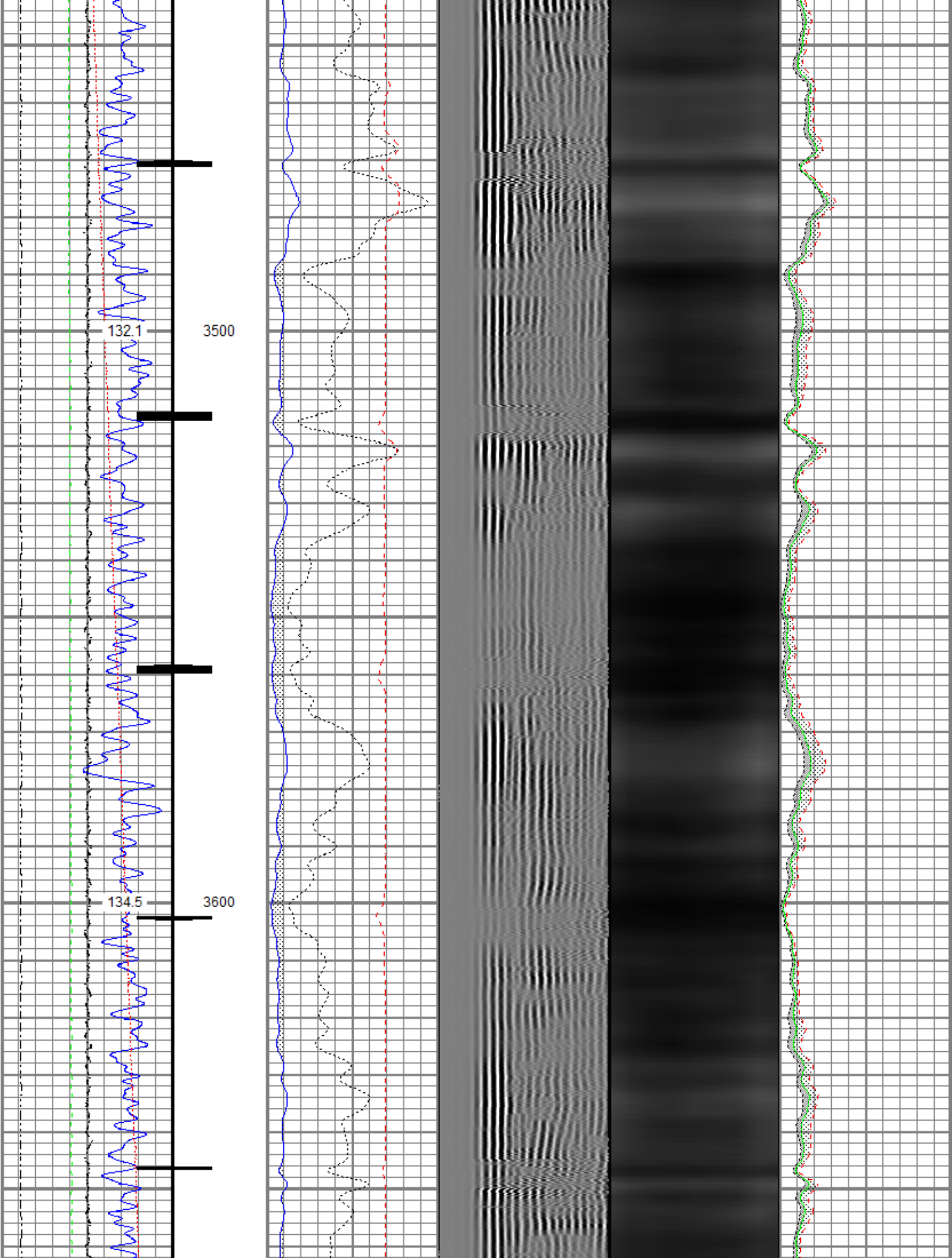


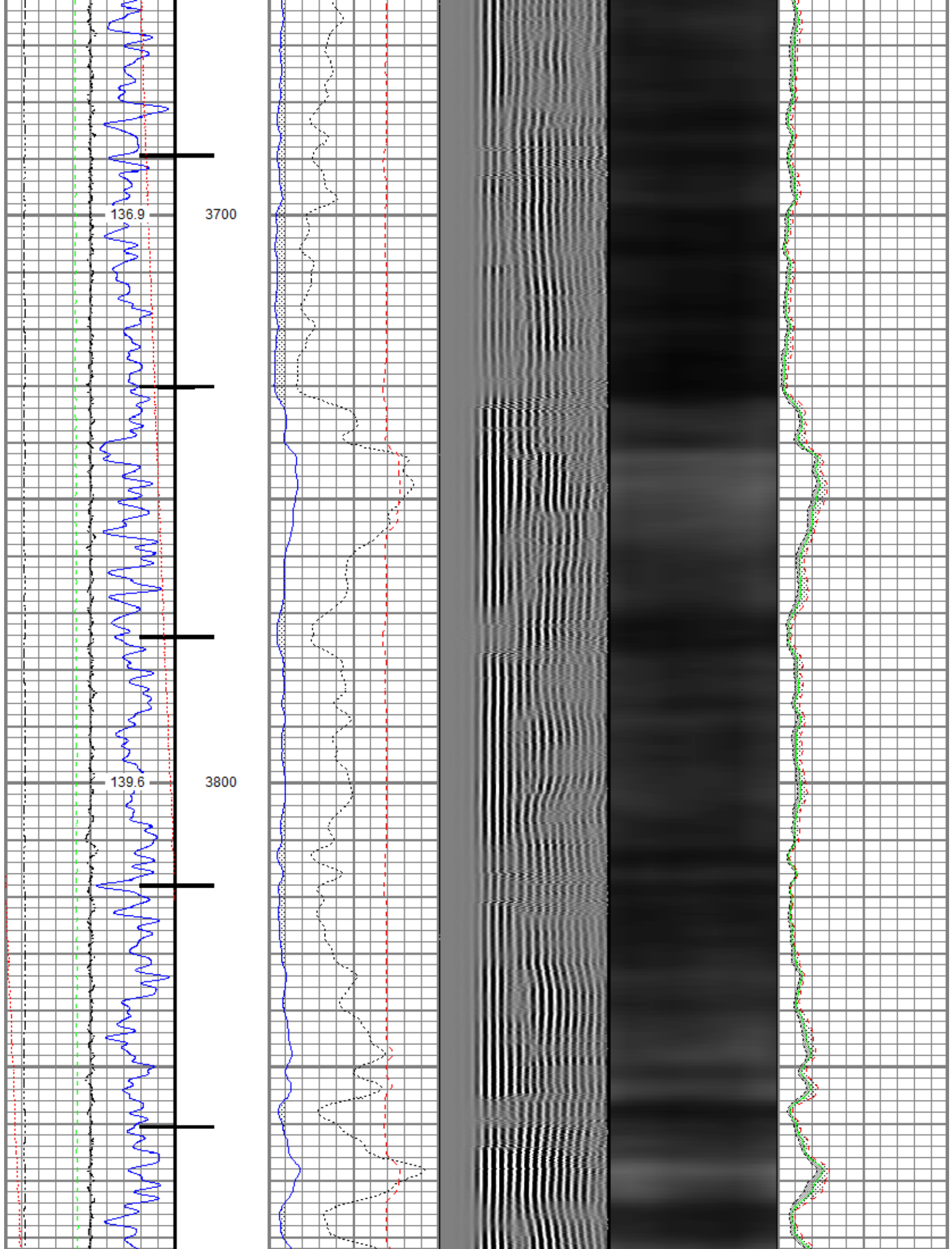


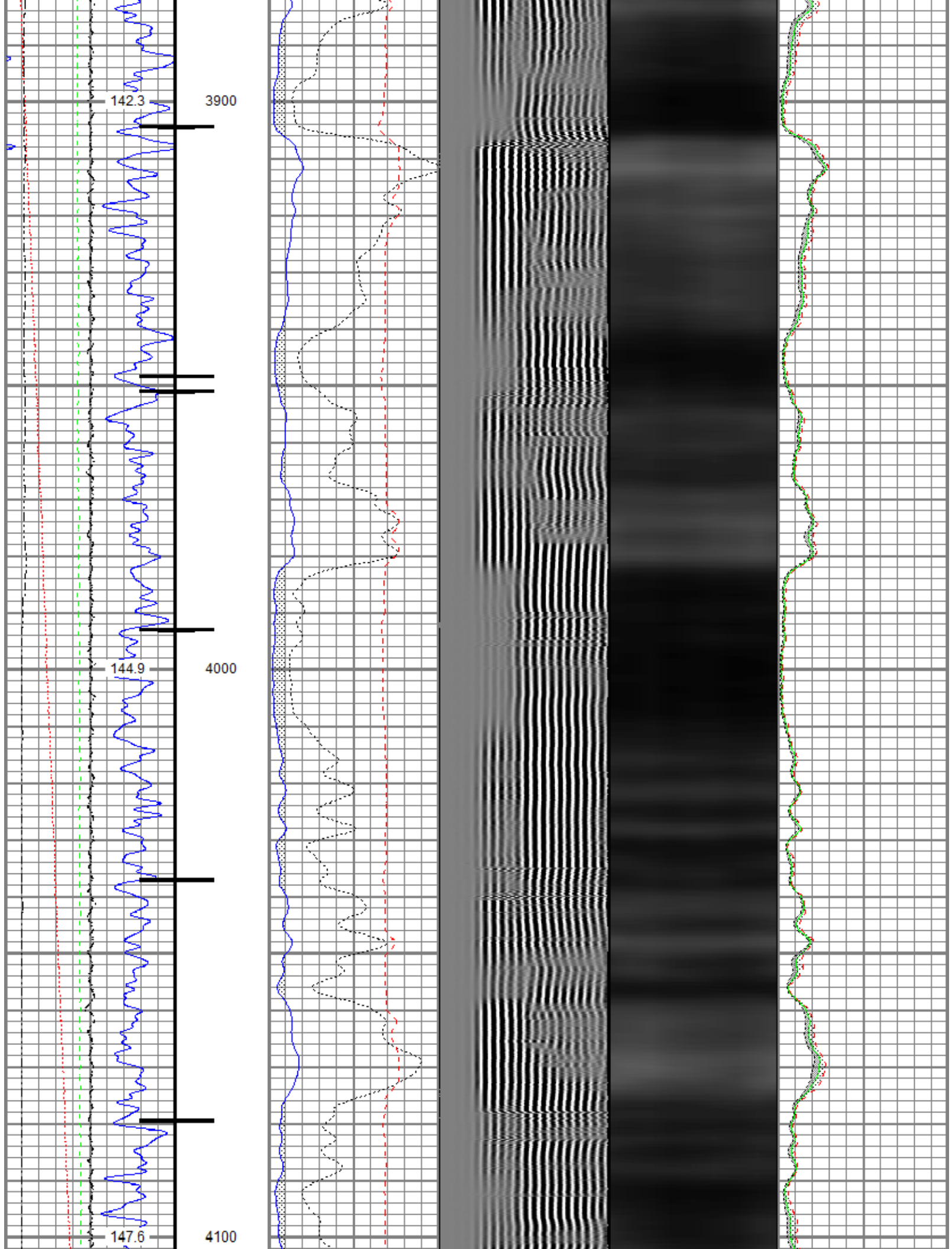


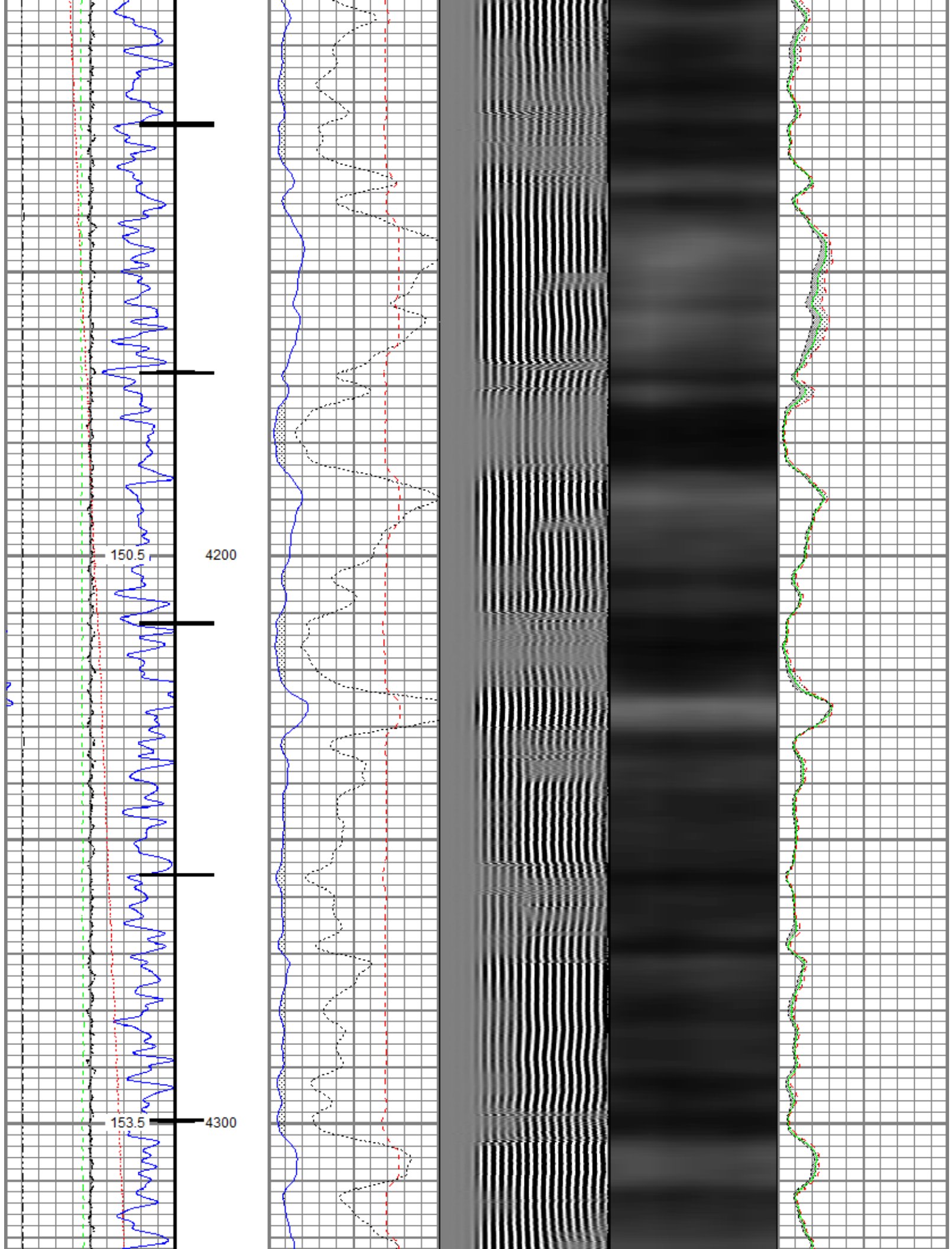


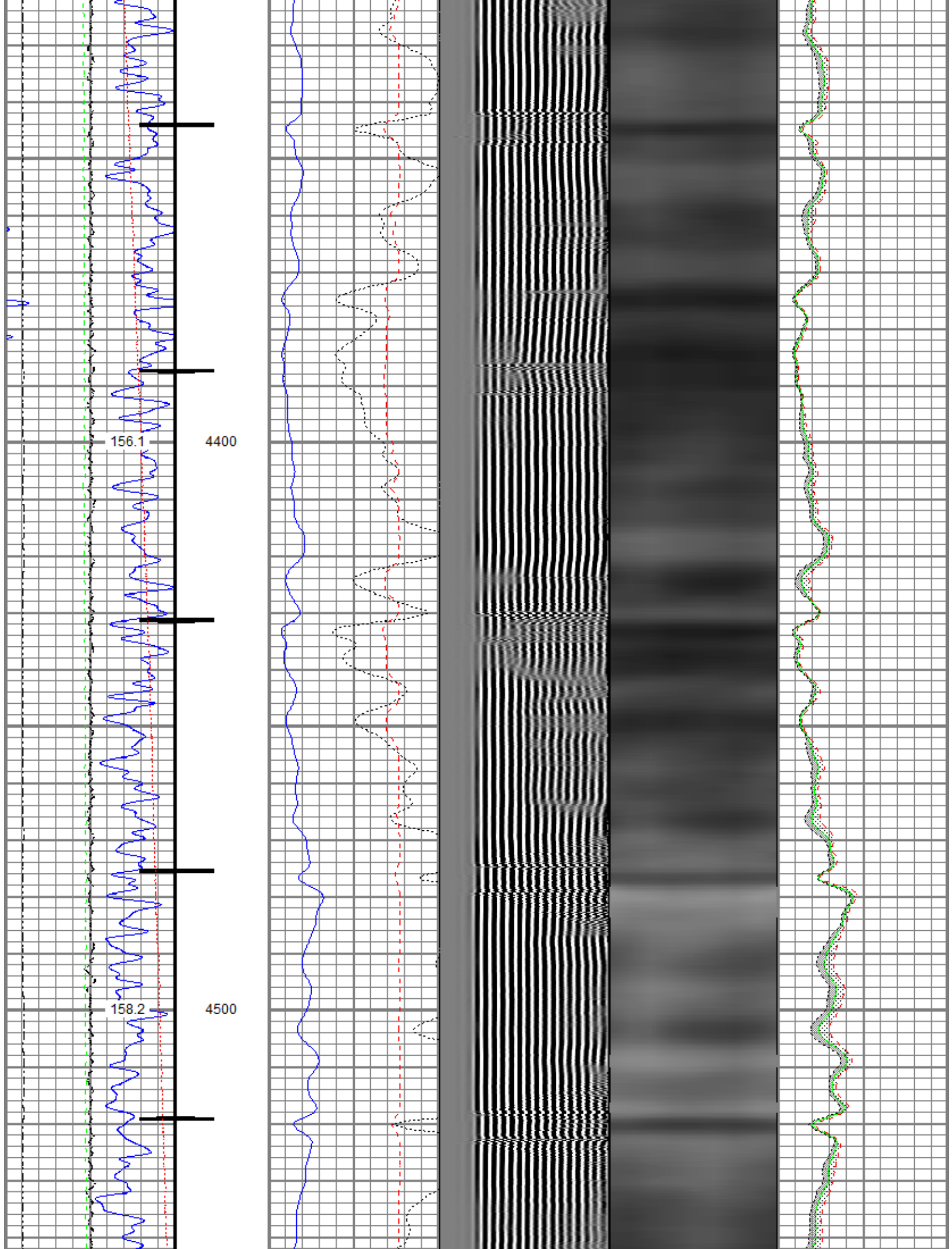


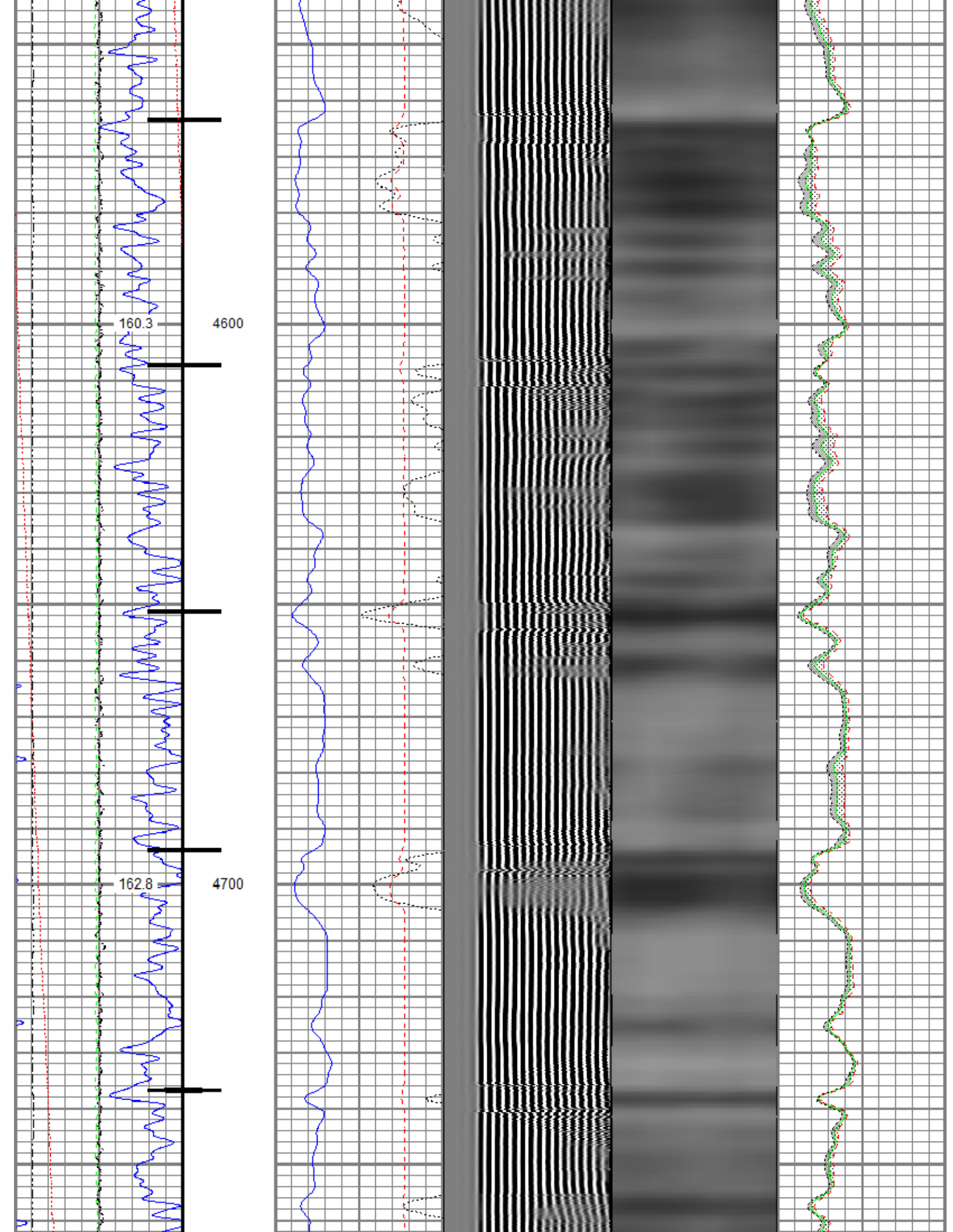


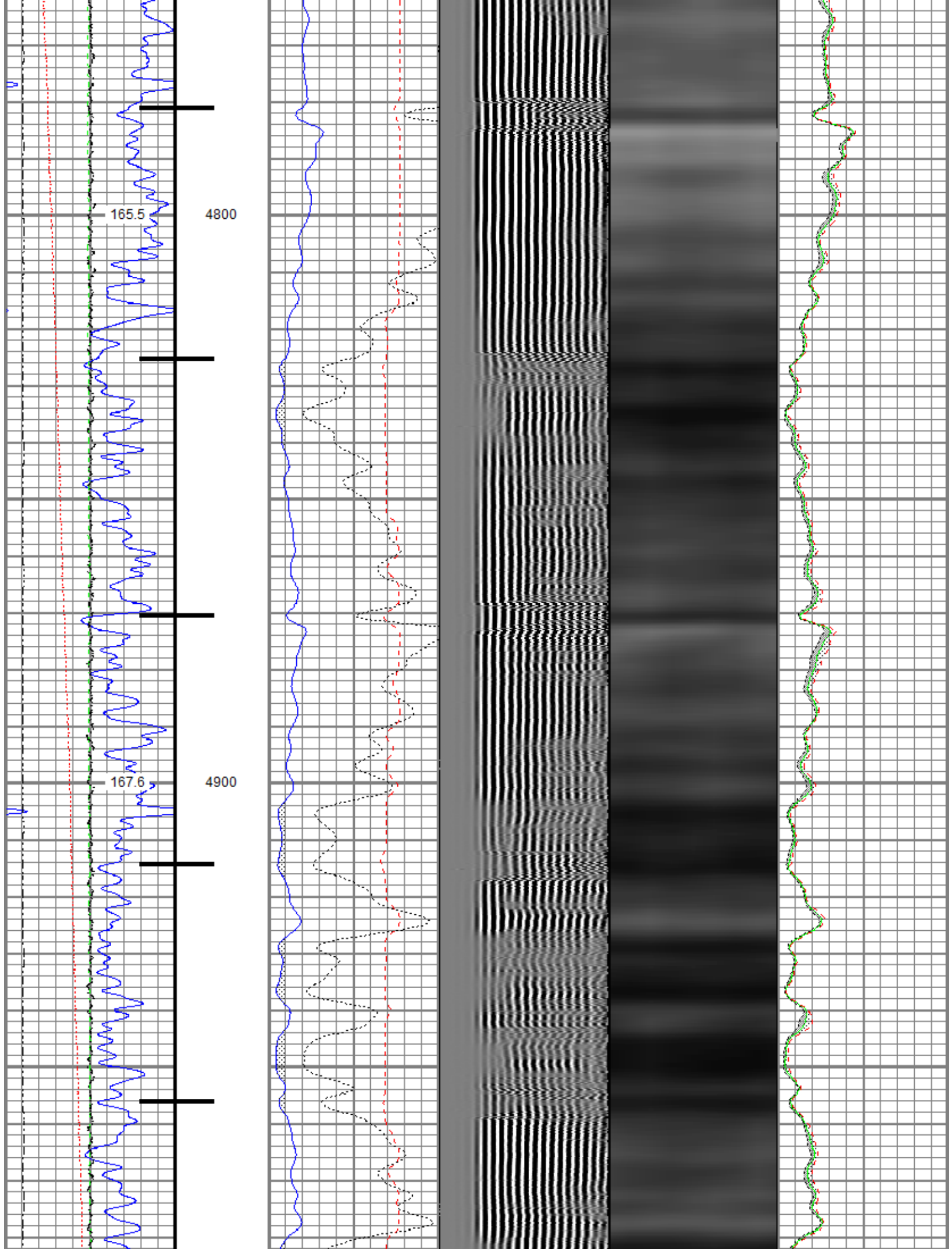


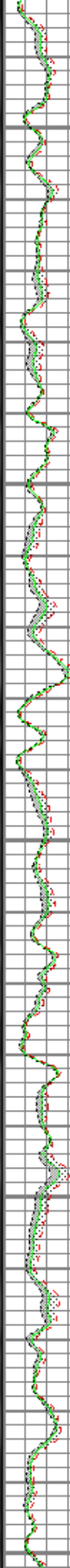
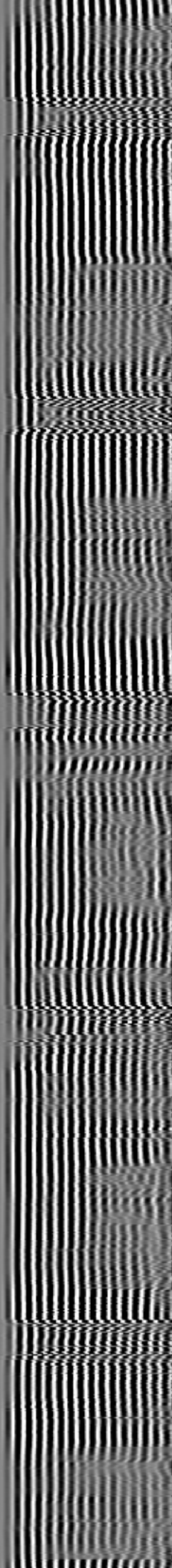
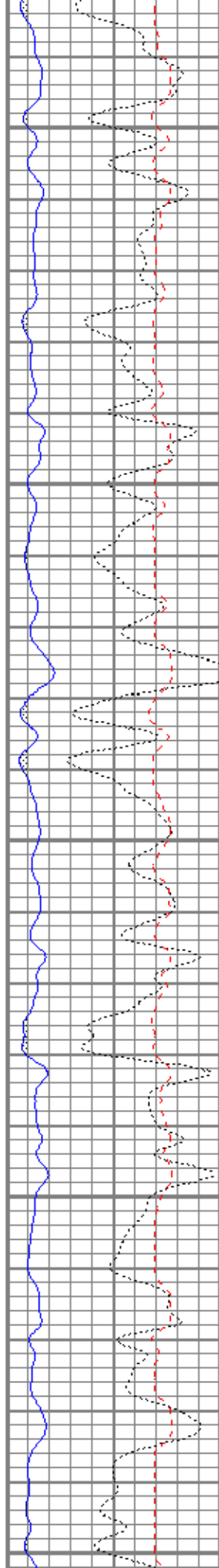
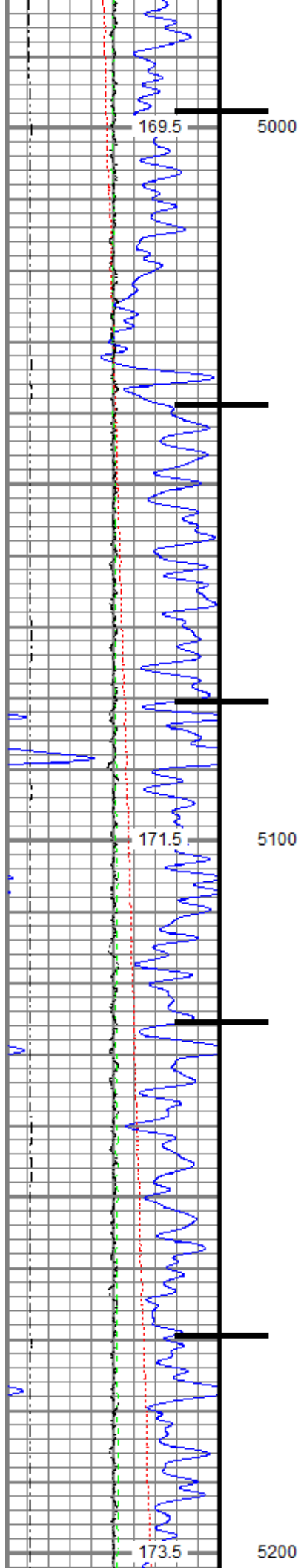


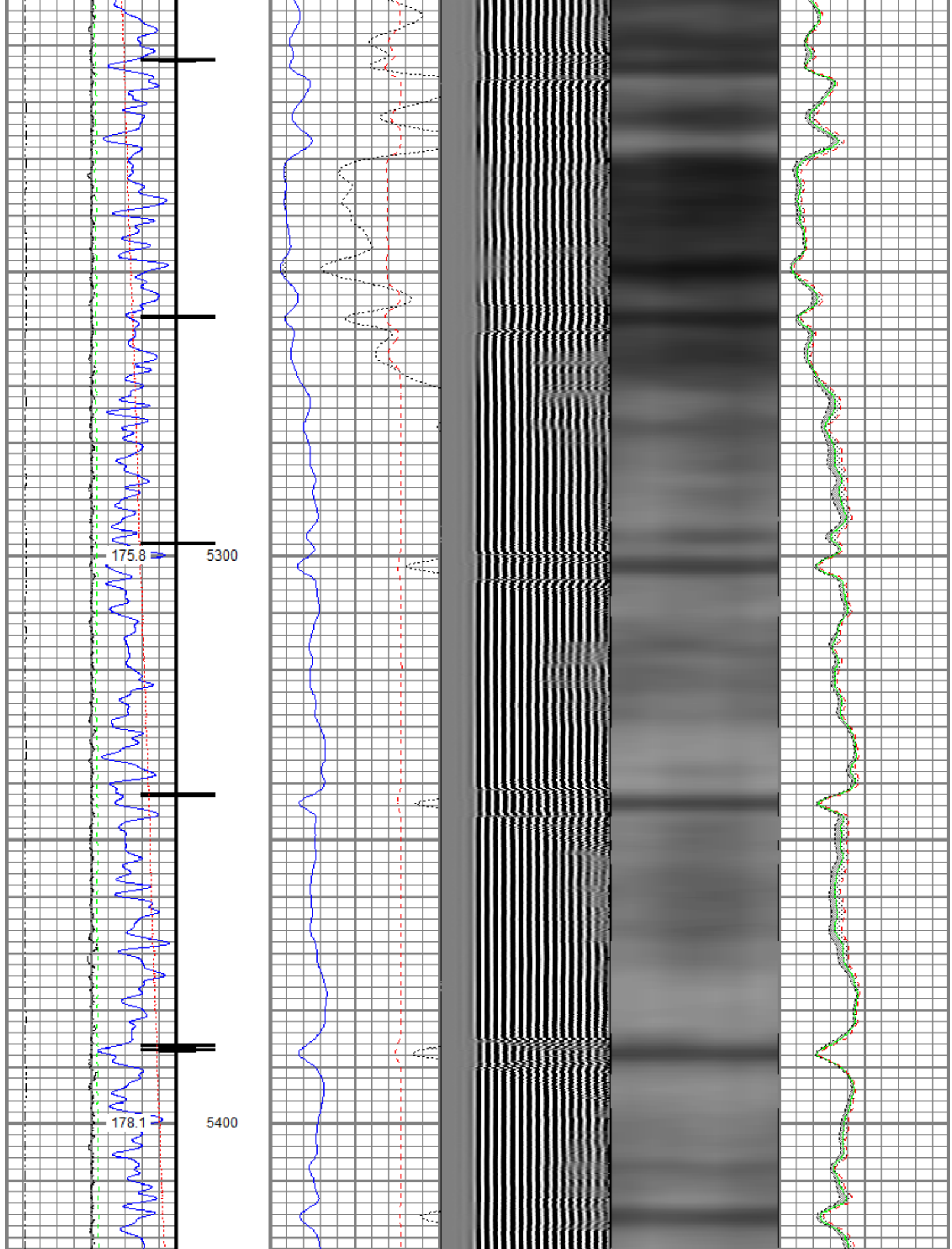


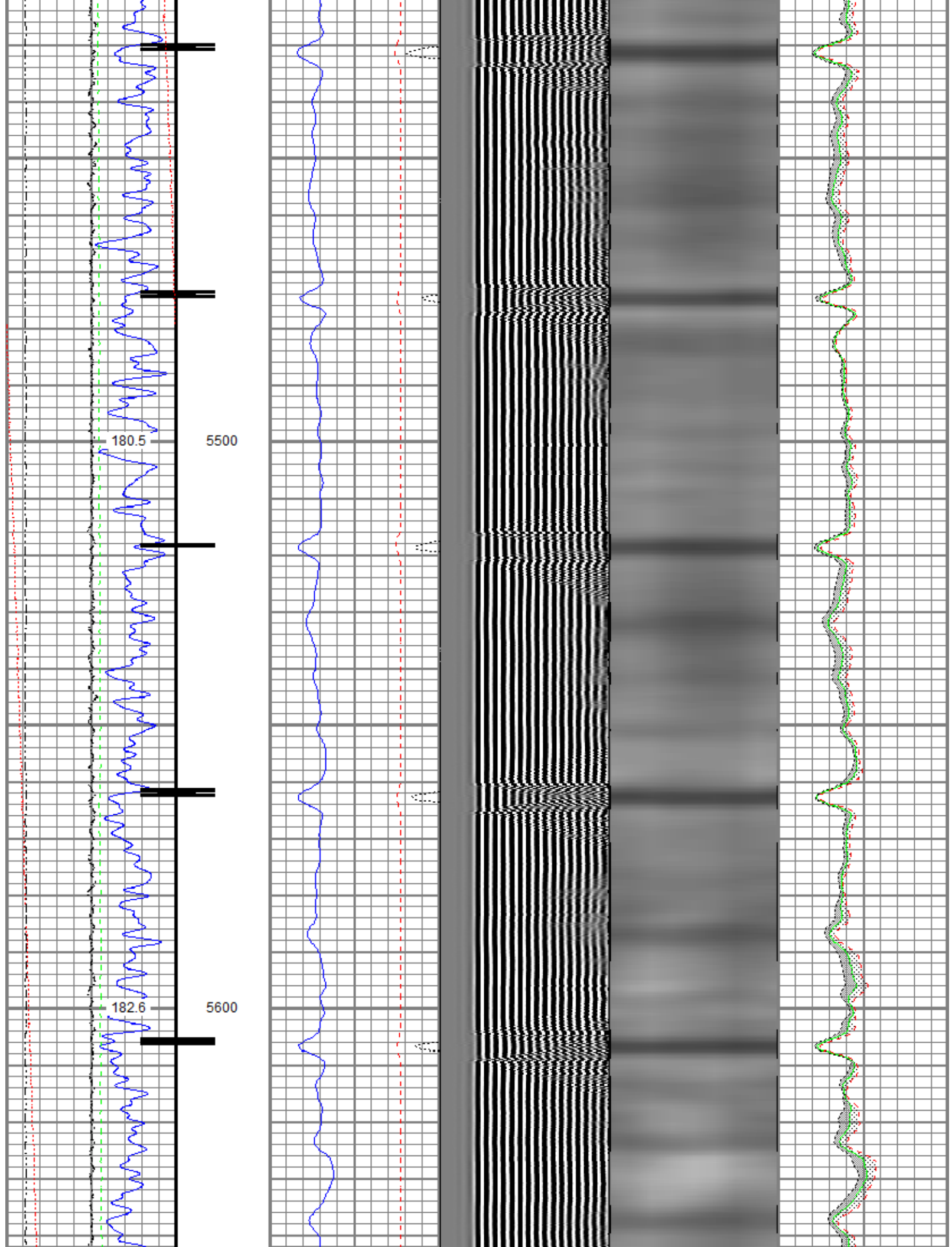


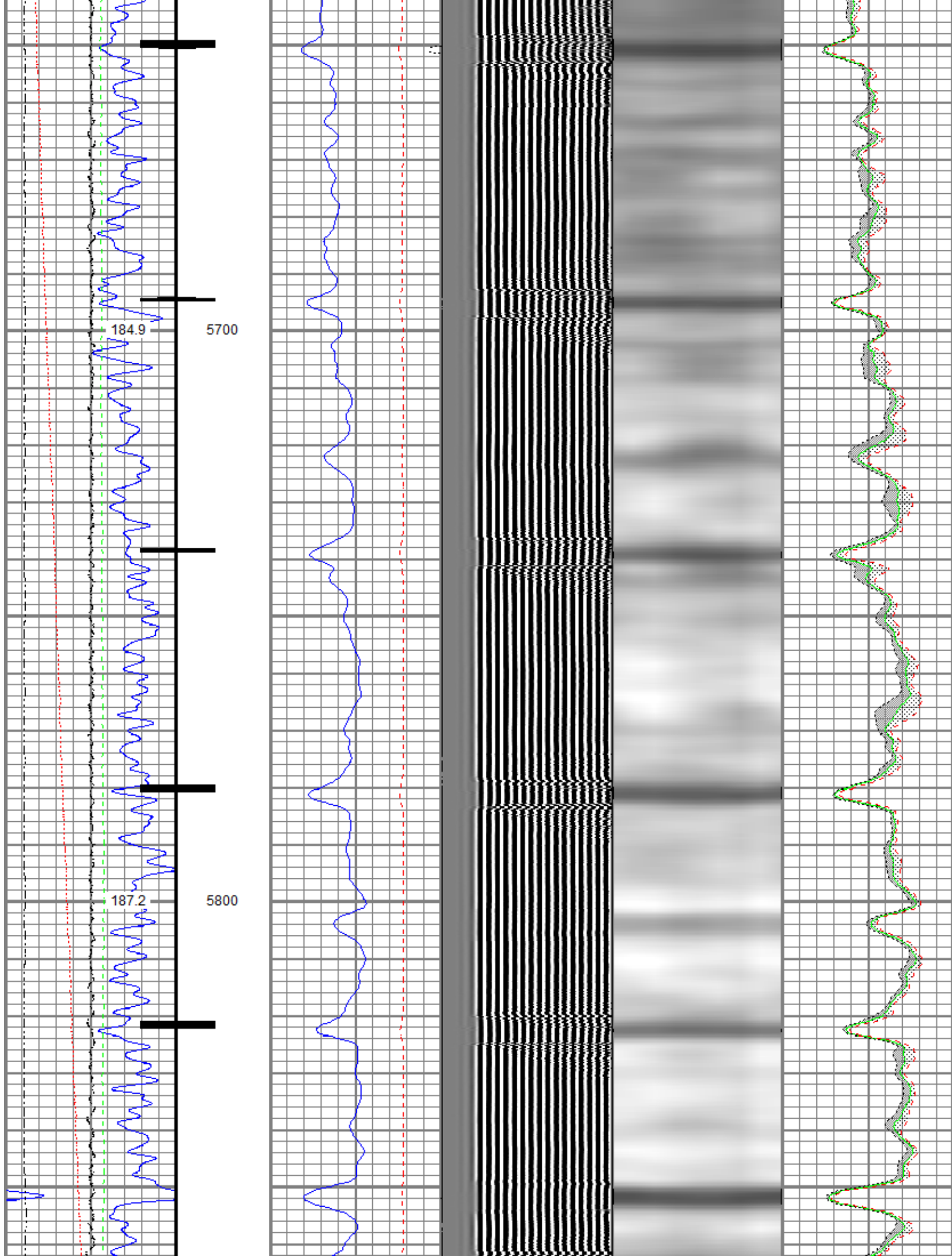


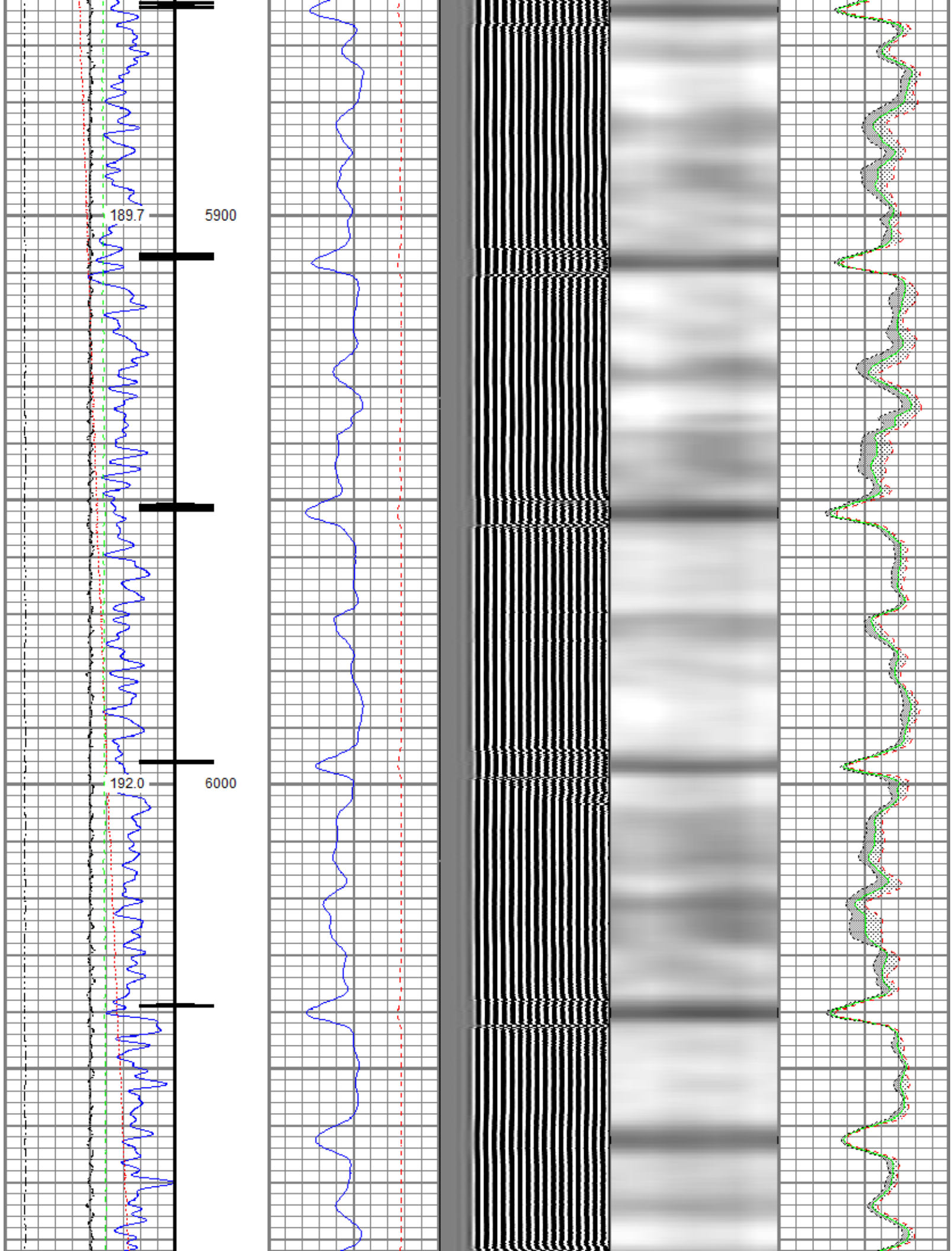


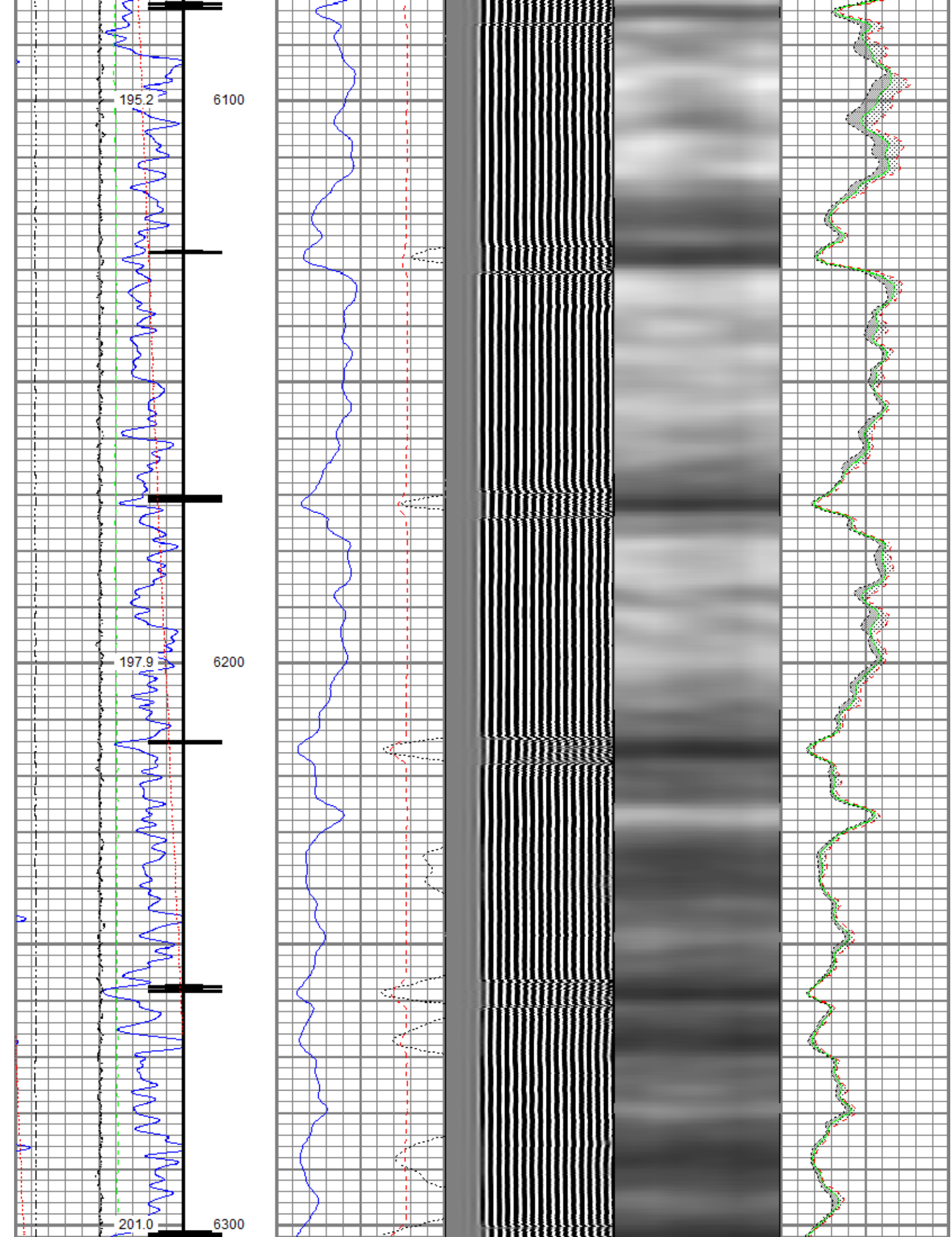


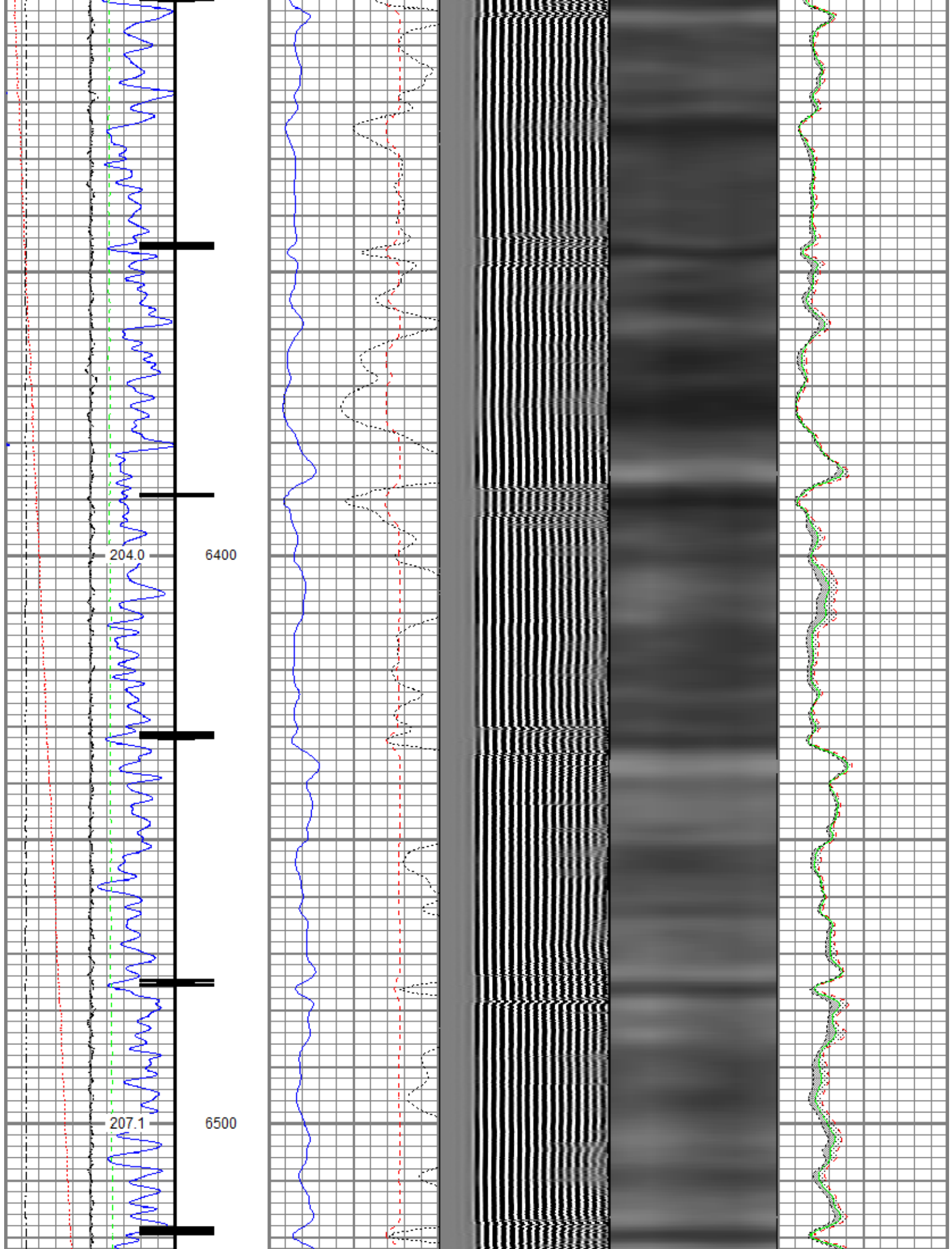


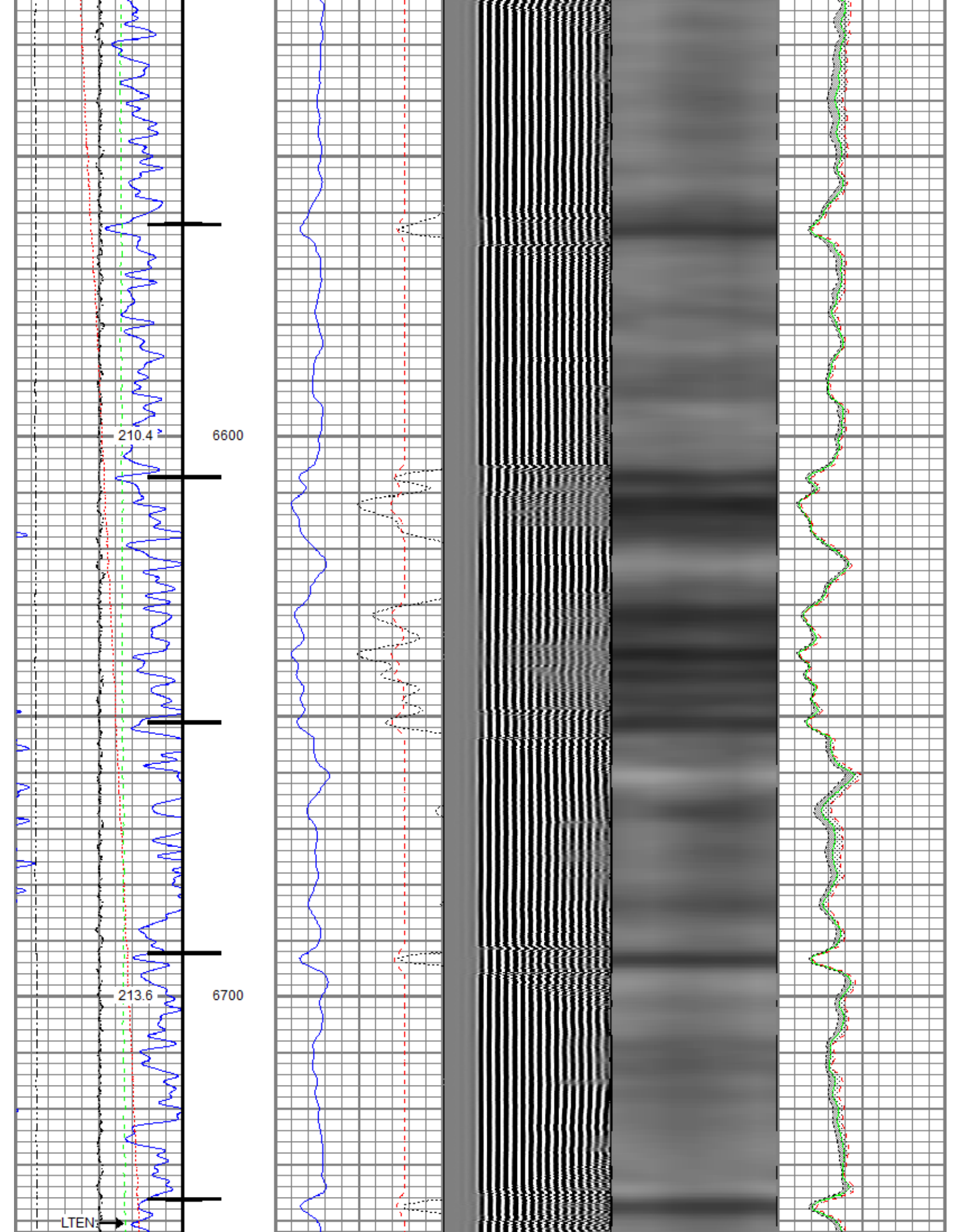


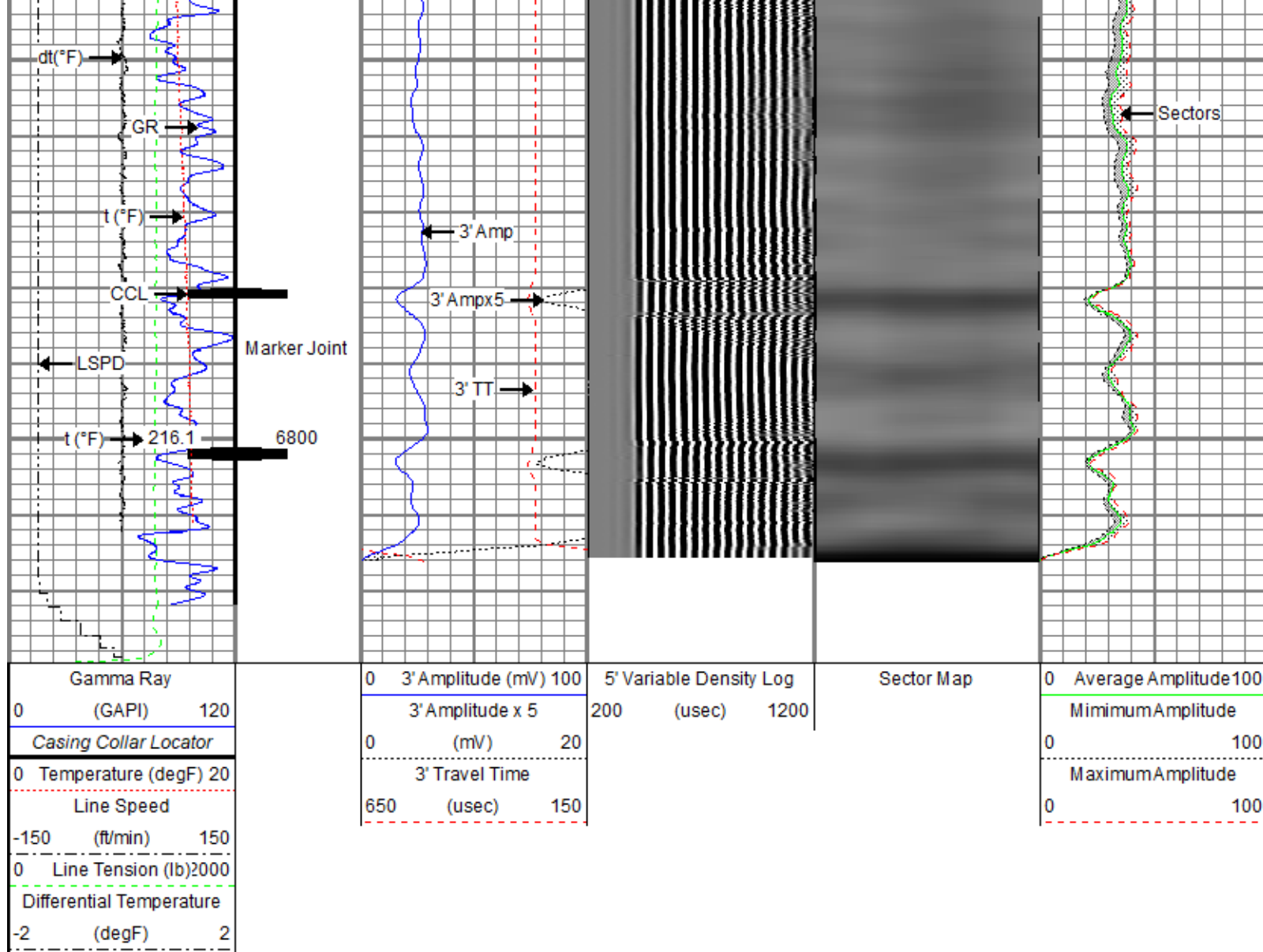












Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

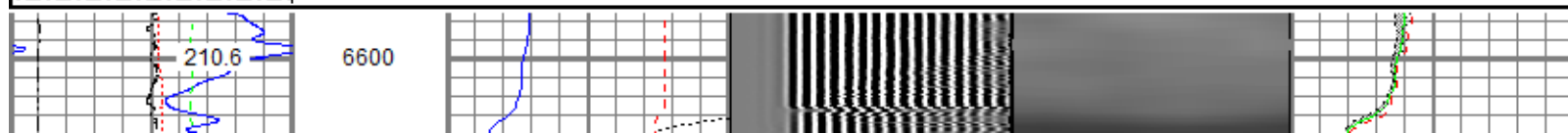
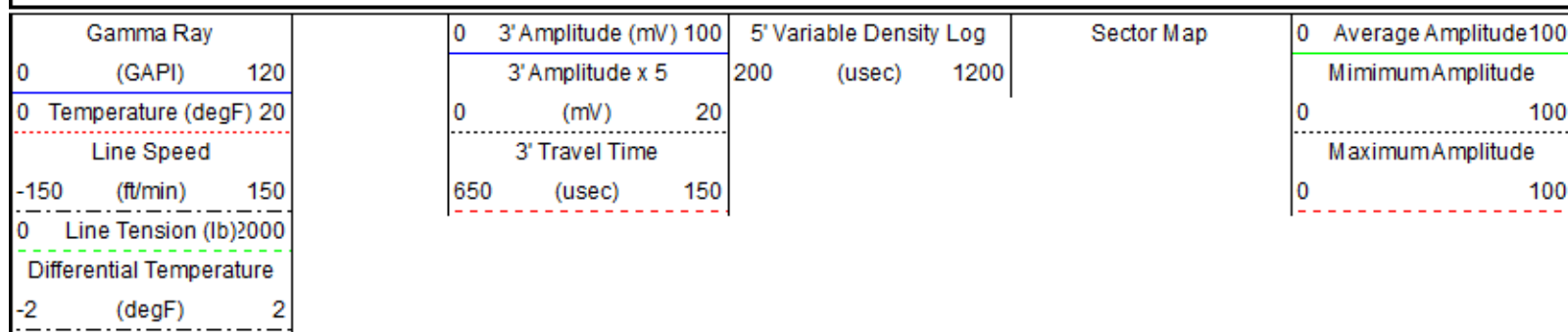
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Dataset Pathname rbl/pass2.2

Presentation Format ros_radrii

Dataset Creation Sun Jun 23 09:40:00 2019

Charted by Depth in Feet scaled 1:240



Repeat Pass

Repeat Pass

213.9

6700

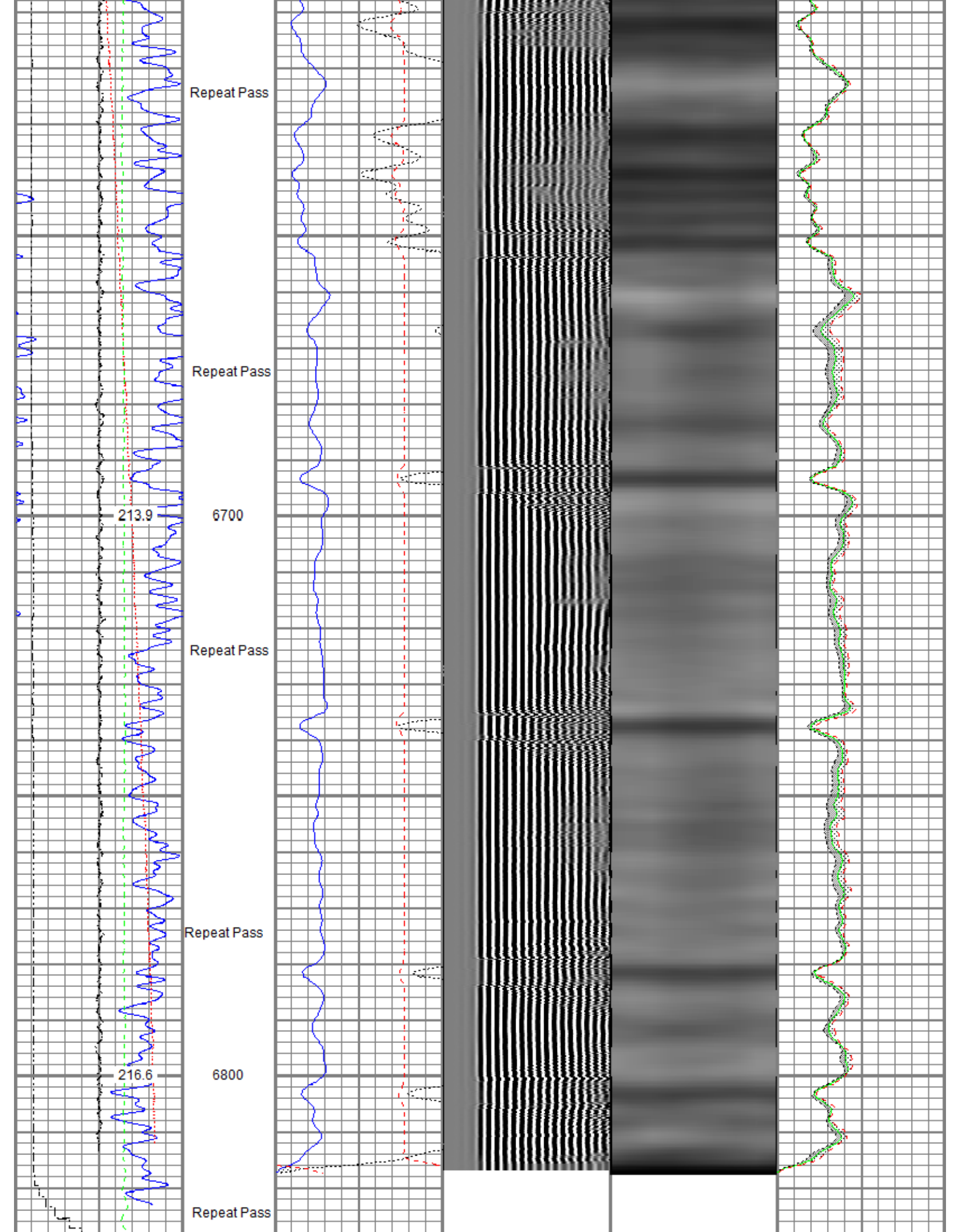
Repeat Pass

Repeat Pass

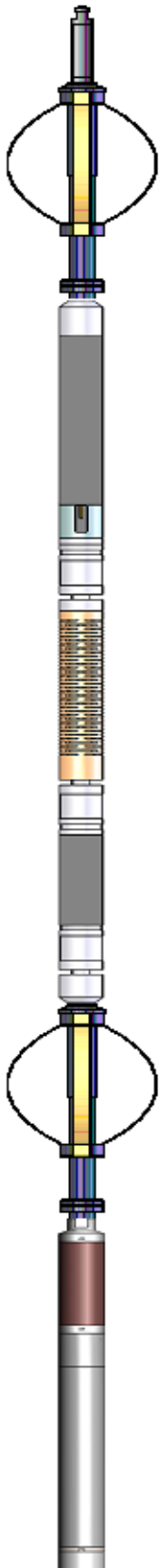
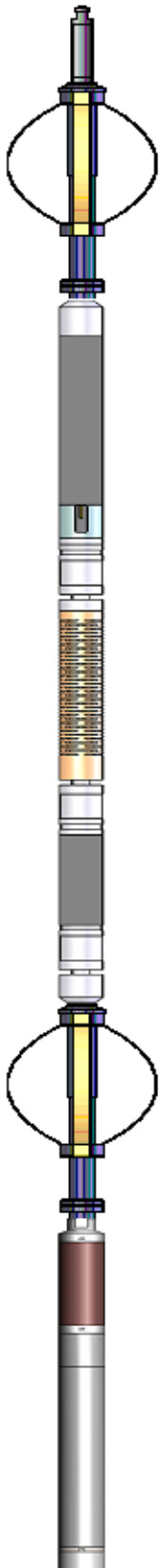
216.6

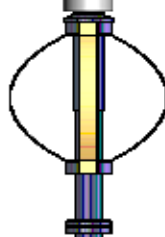
6800

Repeat Pass



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	
Temperature (degF)	20	(mV)	20			0	100	
Line Speed		3' Travel Time					Maximum Amplitude	
(ft/min)	150	(usec)	150			0	100	
Line Tension (lb)	2000							
Differential Temperature								
(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 (FW1305-098) 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					
WVFS3	14.81					
WVFS2	14.81					
WVFS1	14.81					
WVFCAL	14.81					
WVF3FT	14.81					
WVF5FT	13.81					
CCL\$2	6.80		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
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_0512349232_anadarko_mab 15-13hz_rbl_06-22-19.db: field/well/rbl/pass5.1
Total length: 23.86 ft
Total weight: 223.60 lb
O.D.: 2.75 in

Calibration Report

Database File c:\programdata\warrior\data\anadarko\0512349232_anadarko_mab 15-13hz_rbl_06-22-19\processed_0512349232_anadarko_mab
Dataset Pathname rbl/pass5.1
Dataset Creation Sun Jun 23 09:28:37 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: FW1305-098
Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
Calibration Depth: -51.101 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	0.667	0.800	71.921	107.747	0.094
CAL	0.006	0.700				
5'	0.008	0.627	0.800	71.921	114.911	-0.079
SUM						
S1	0.005	0.648	0.000	100.000	155.350	-0.739
S2	0.008	0.650	0.000	100.000	155.766	-1.226
S3	0.008	0.653	0.000	100.000	155.074	-1.263
S4	0.009	0.665	0.000	100.000	152.337	-1.355
S5	0.008	0.690	0.000	100.000	146.542	-1.165
S6	0.008	0.690	0.000	100.000	146.671	-1.136
S7	0.009	0.669	0.000	100.000	151.480	-1.396
S8	0.007	0.657	0.000	100.000	153.861	-1.039

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.700	1.000	0.000

Air Zero Calibration, performed Thu Jun 20 06:09:36 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: FW1305-098
Tool Model: 2750 RBT
Performed: Mon Oct 01 11:32:17 2018

	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF

Gain: 0.84
Offset: 7.72
Delta Spacing: 1



Company Kerr-McGee Oil & Gas Onshore, L.P.
Well MAB 15-13HZ
Field Wattenberg
County Weld
State Colorado