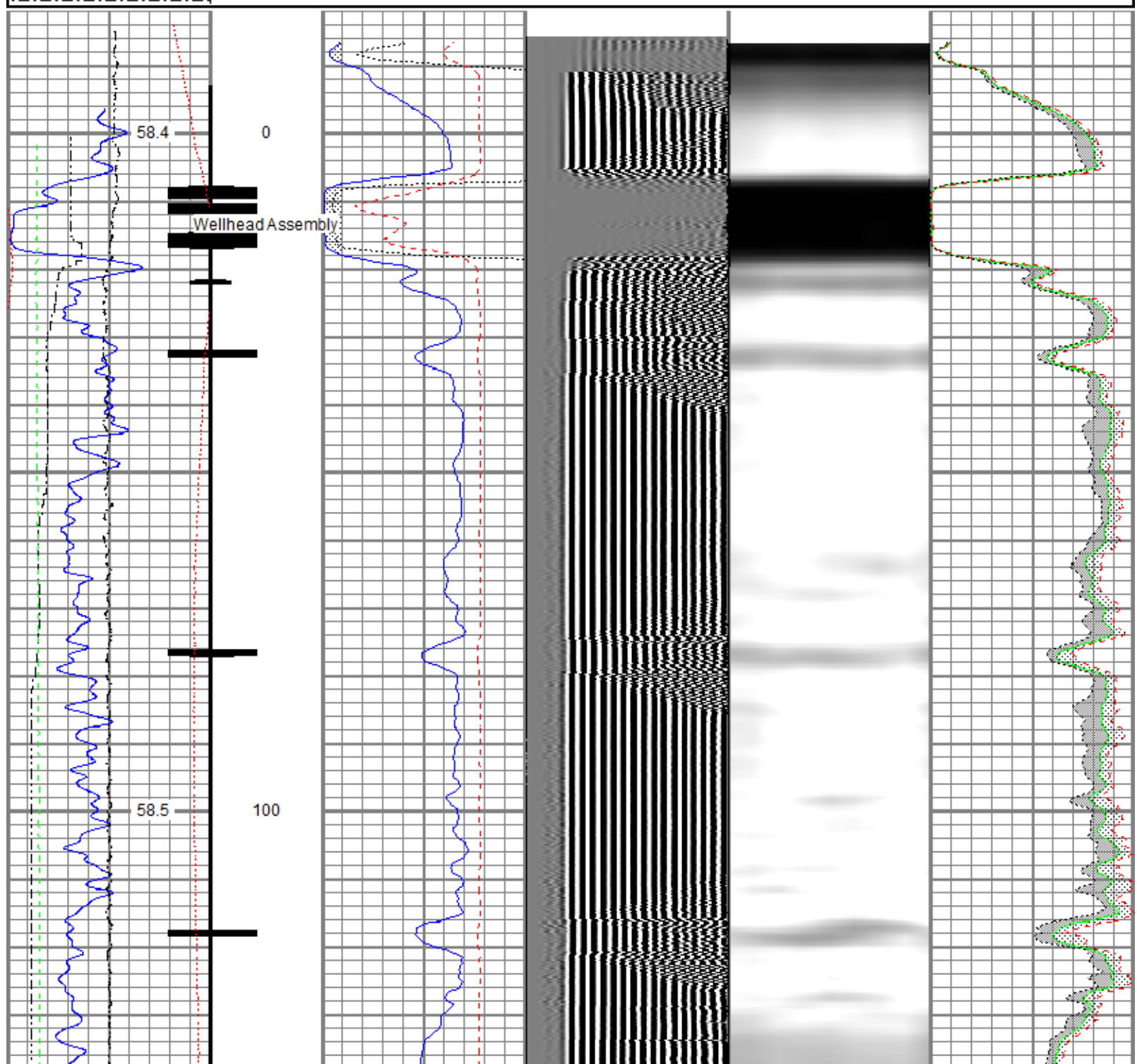


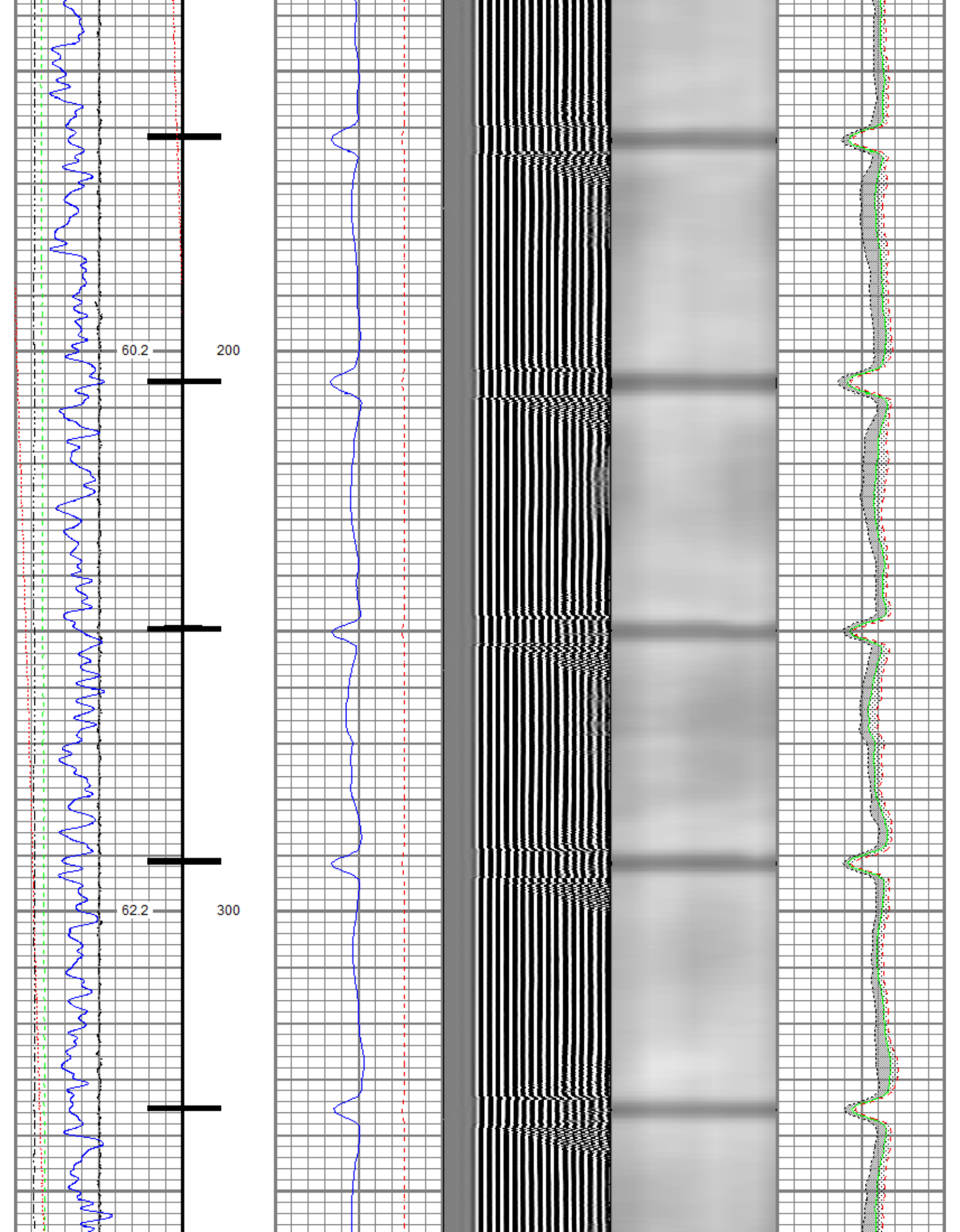


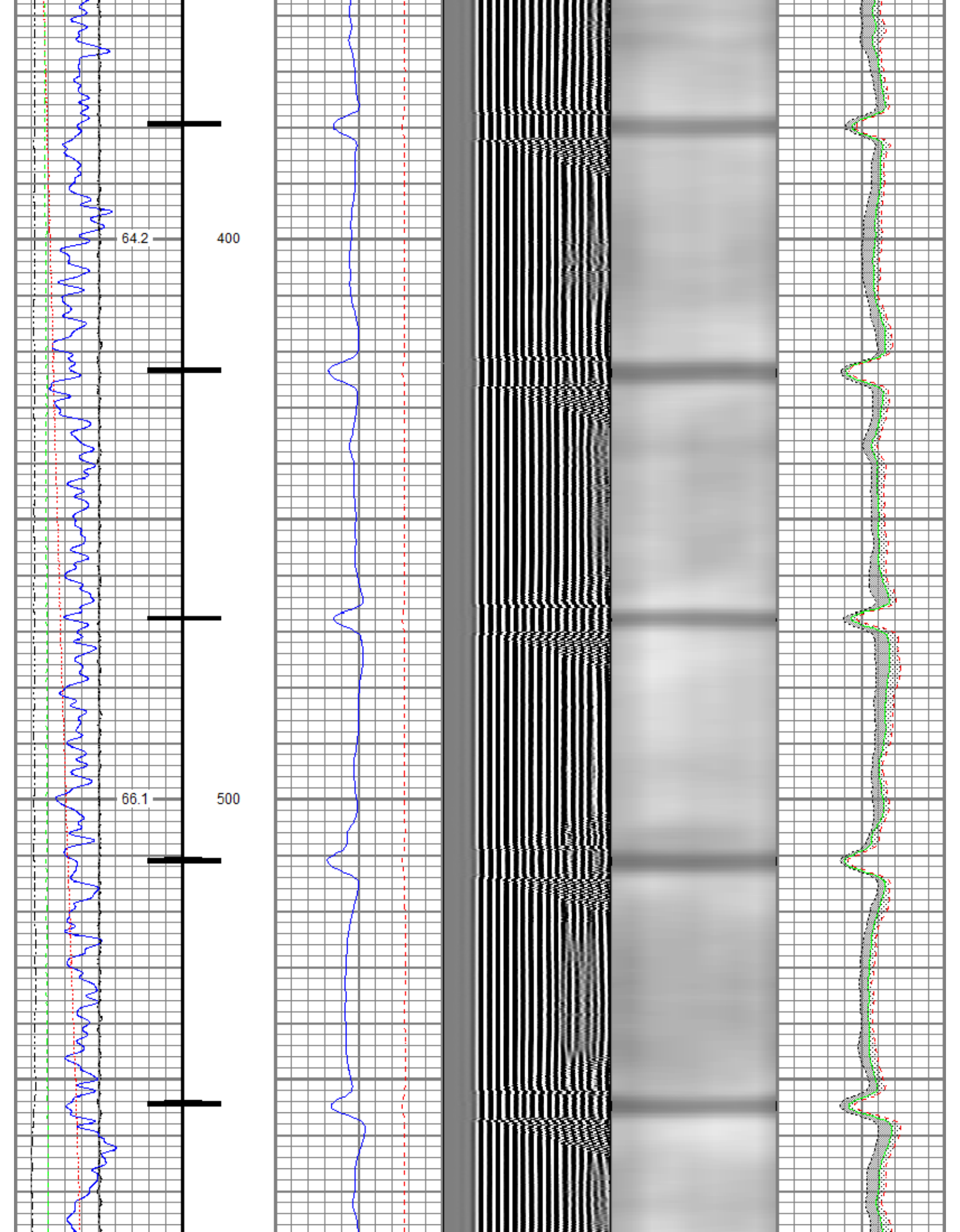
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Kelly Bushing at 17 FT Adjusted +17 FT to correlate with Kelly Bushing Gauge Ring/Junk Basket ran to 8040 FT Retrievable Bridge Plug set at 7036 FT Casing Tally Reported Maker Joint at 6984 FT was not logged due to RBP set depth 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!!

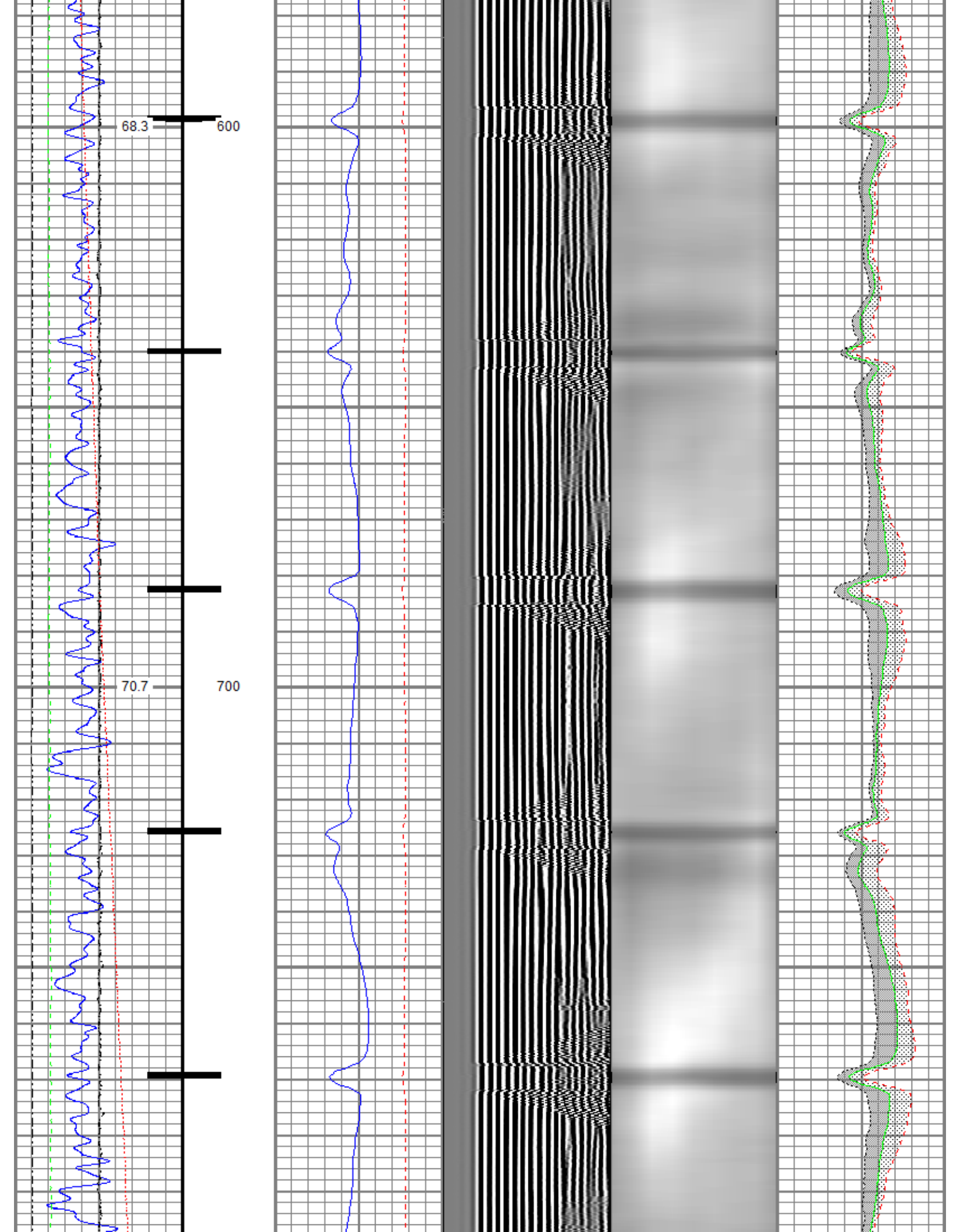
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Dataset Pathname	rbl/pass4.1
Presentation Format	ros_radri
Dataset Creation	Sun Jun 23 12:37:09 2019
Charted by	Depth in Feet scaled 1:240

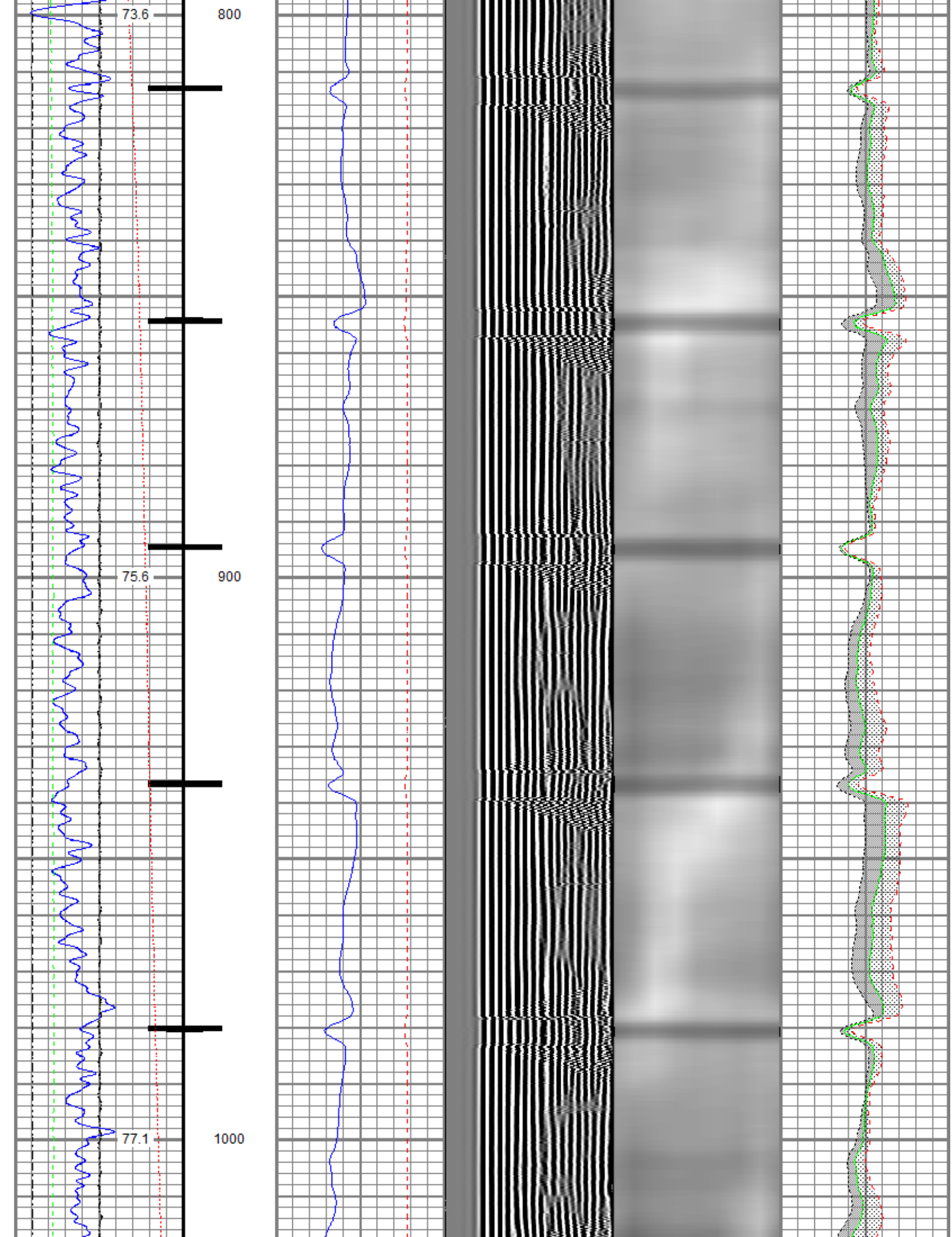
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator		0 (mV) 20			0	100
0 Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed		650 (usec) 150			0	100
-150 (ft/min) 150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

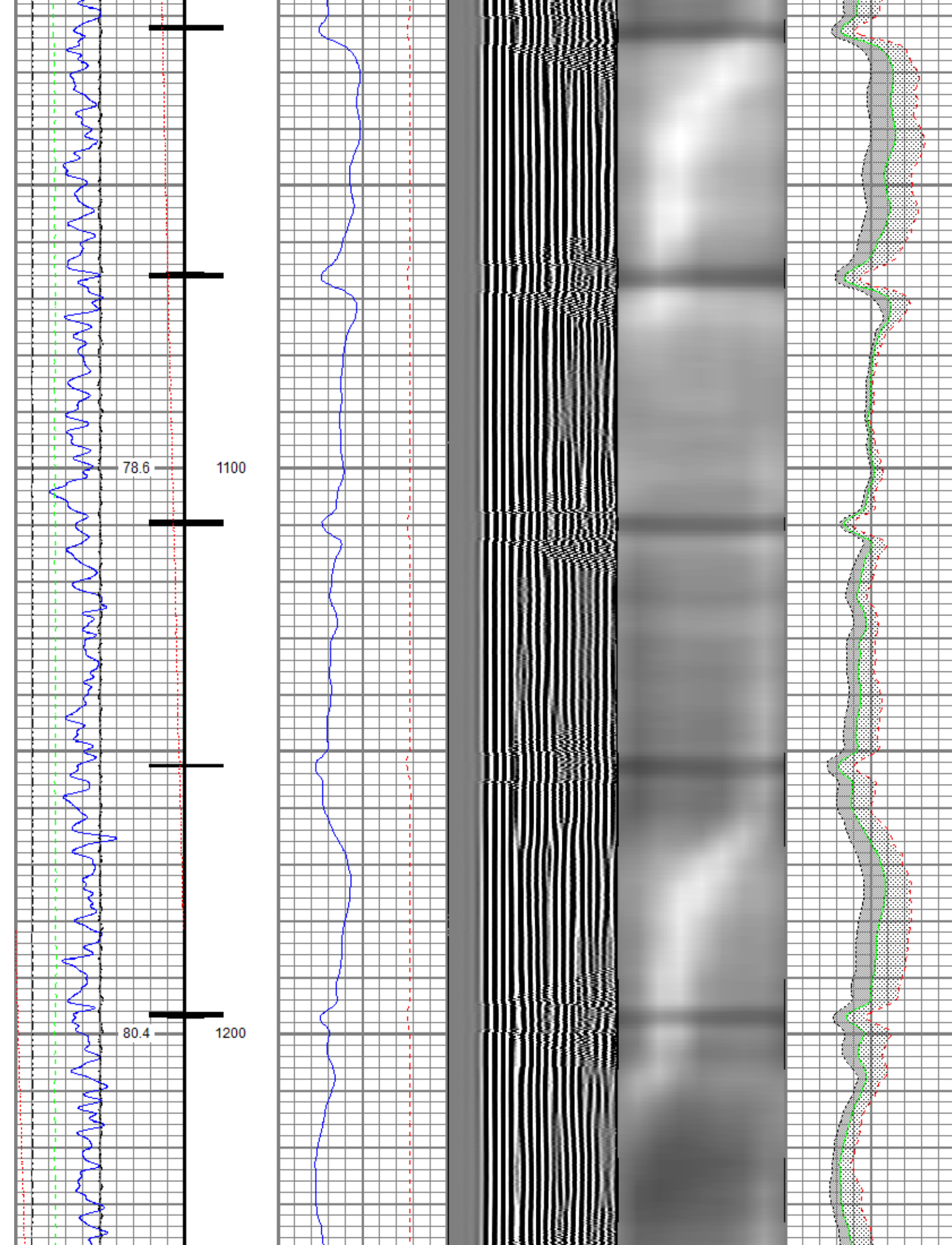


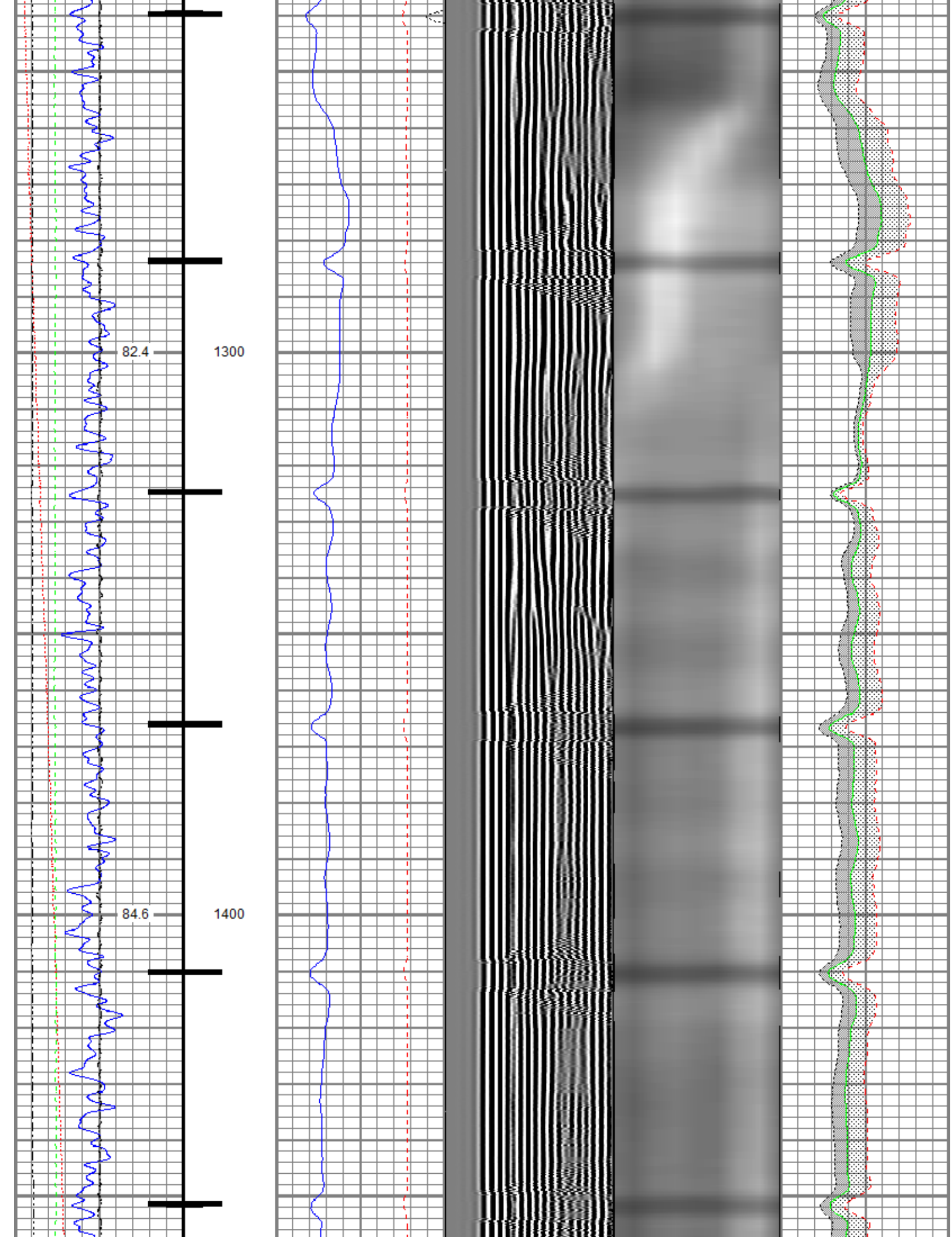


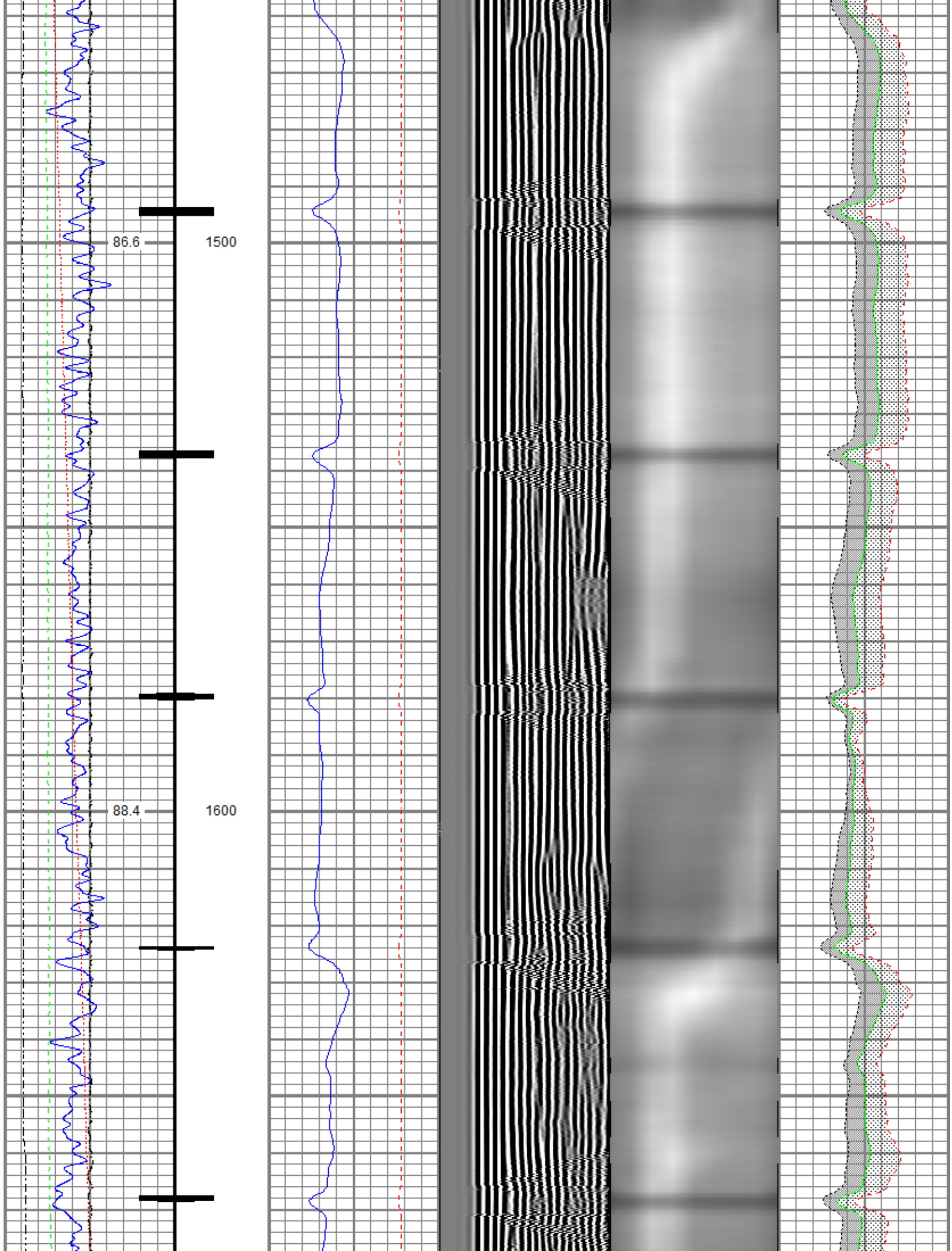


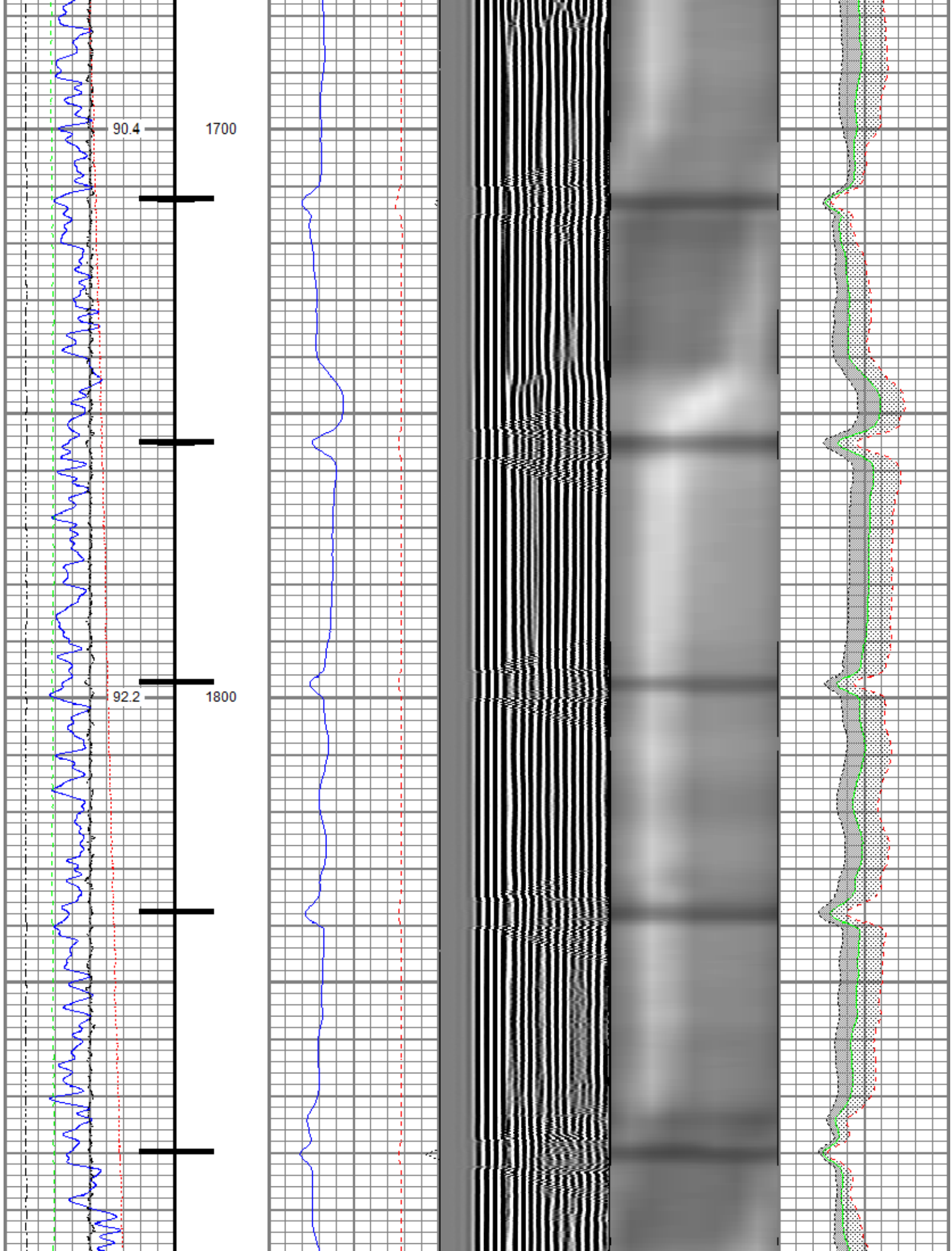


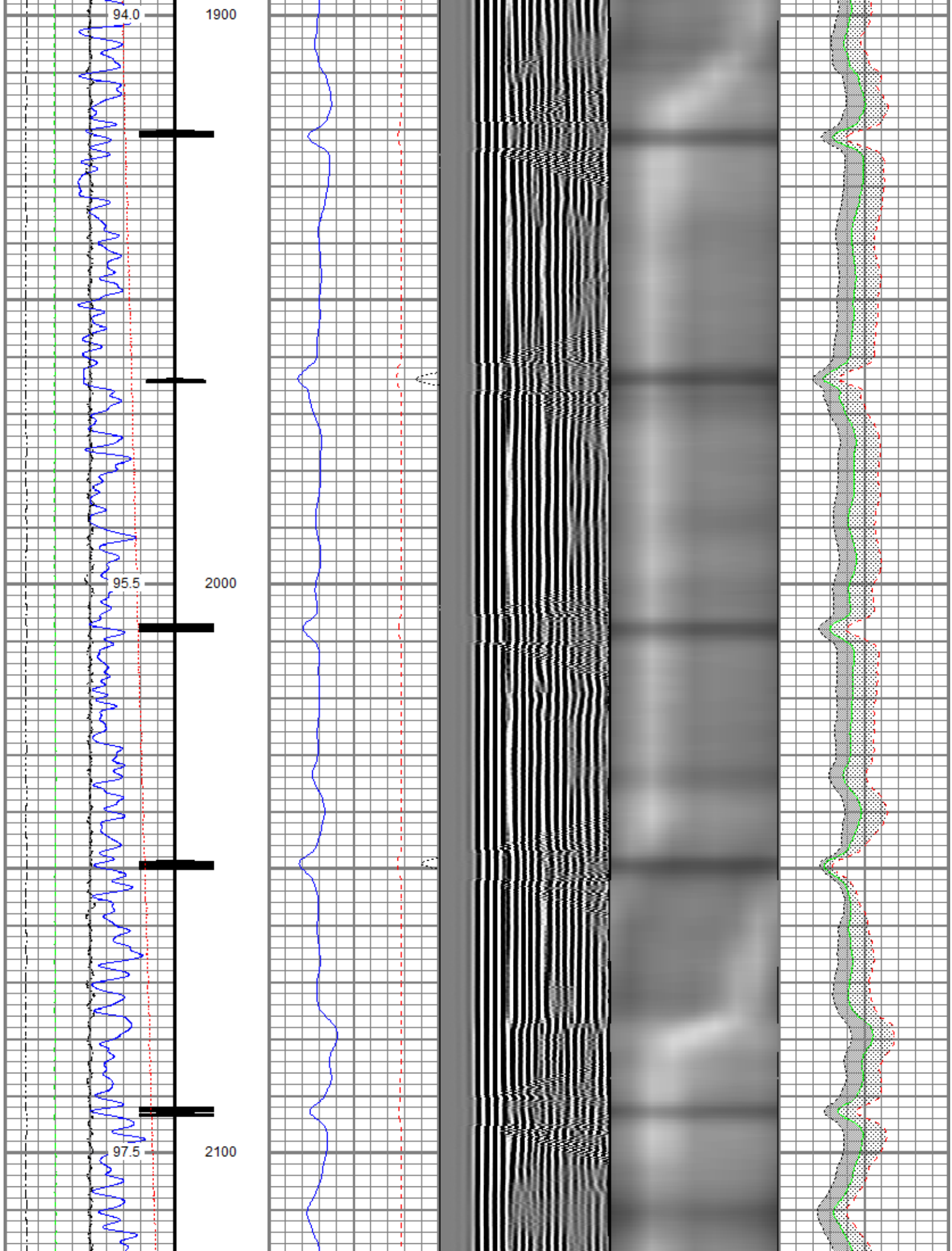


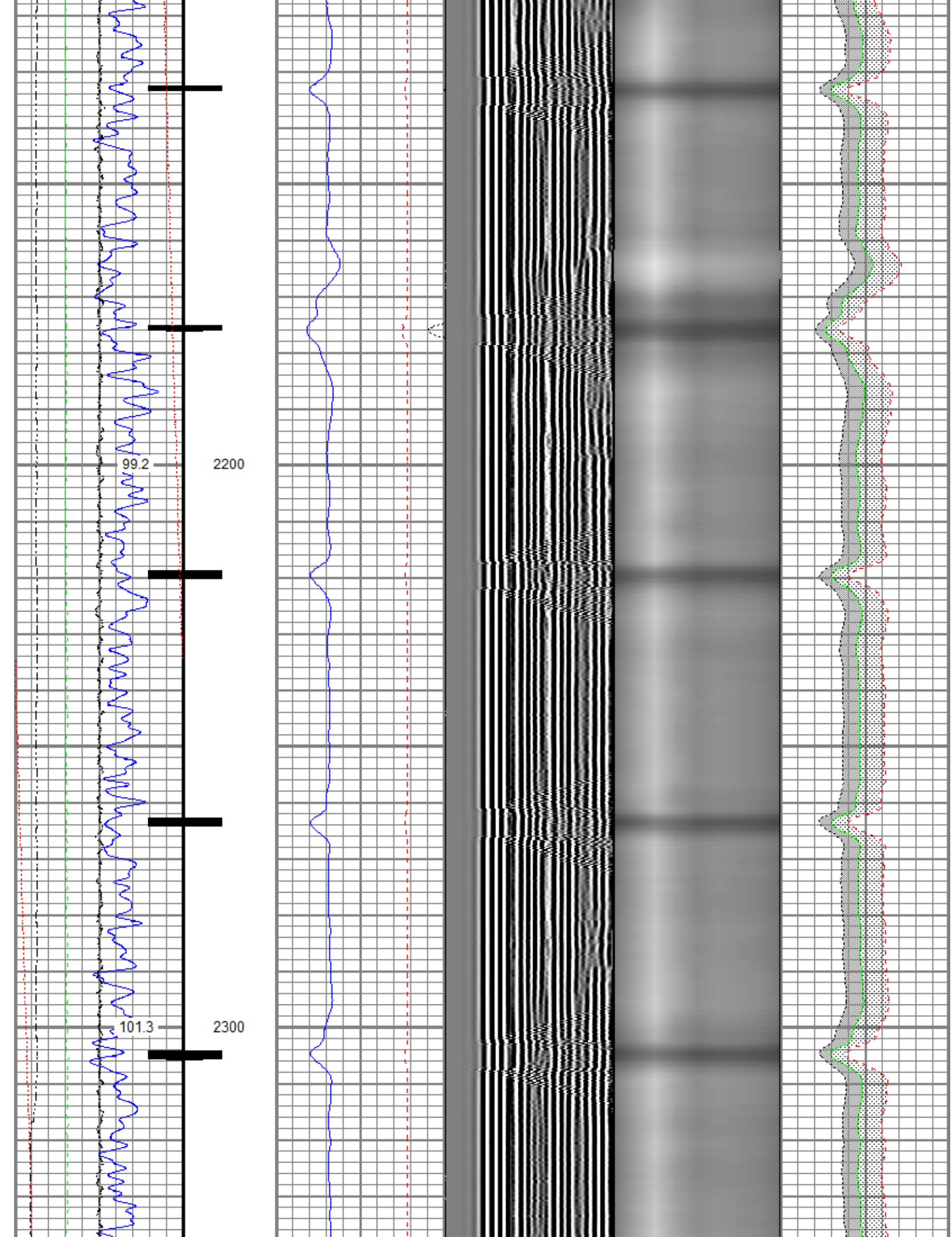


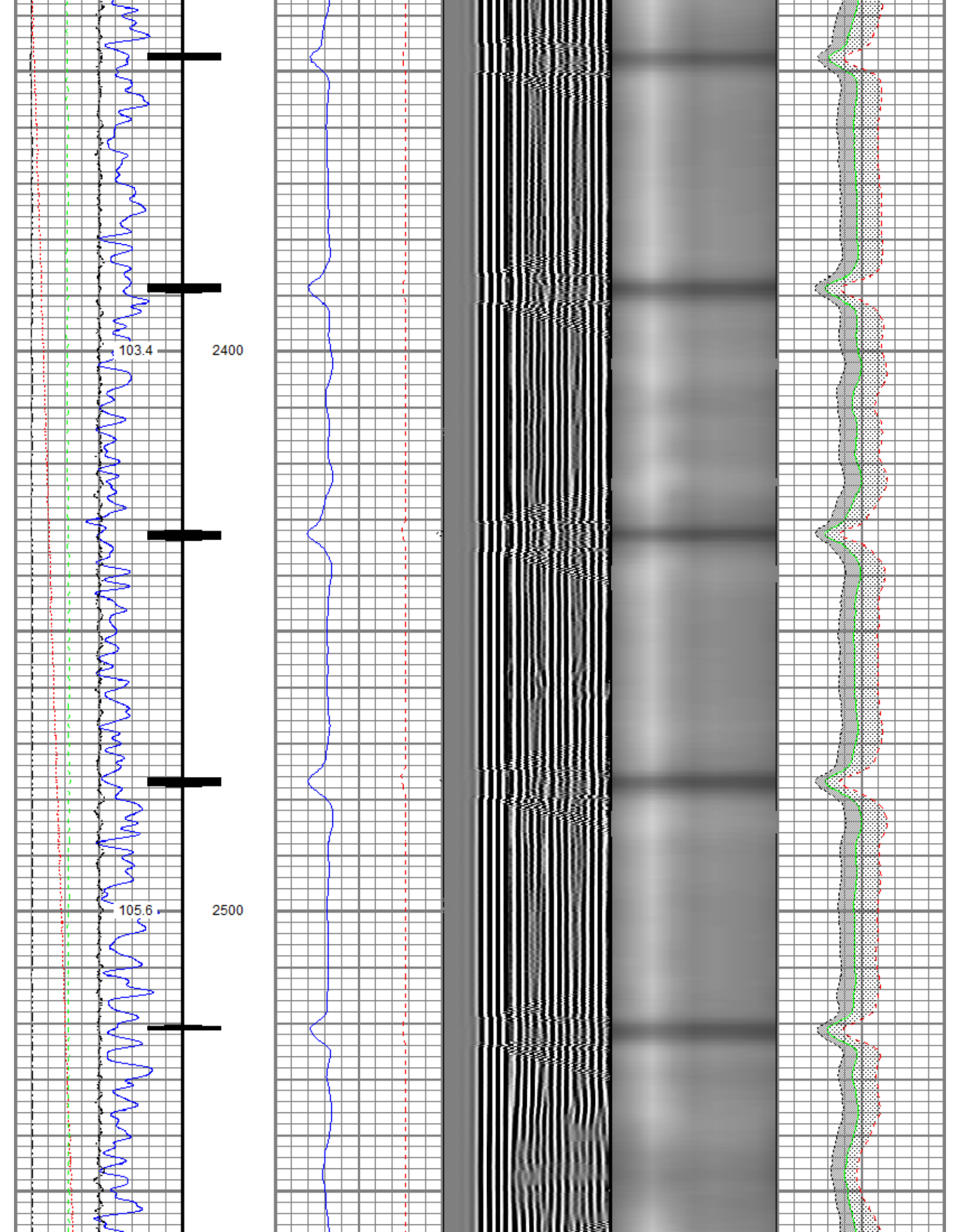


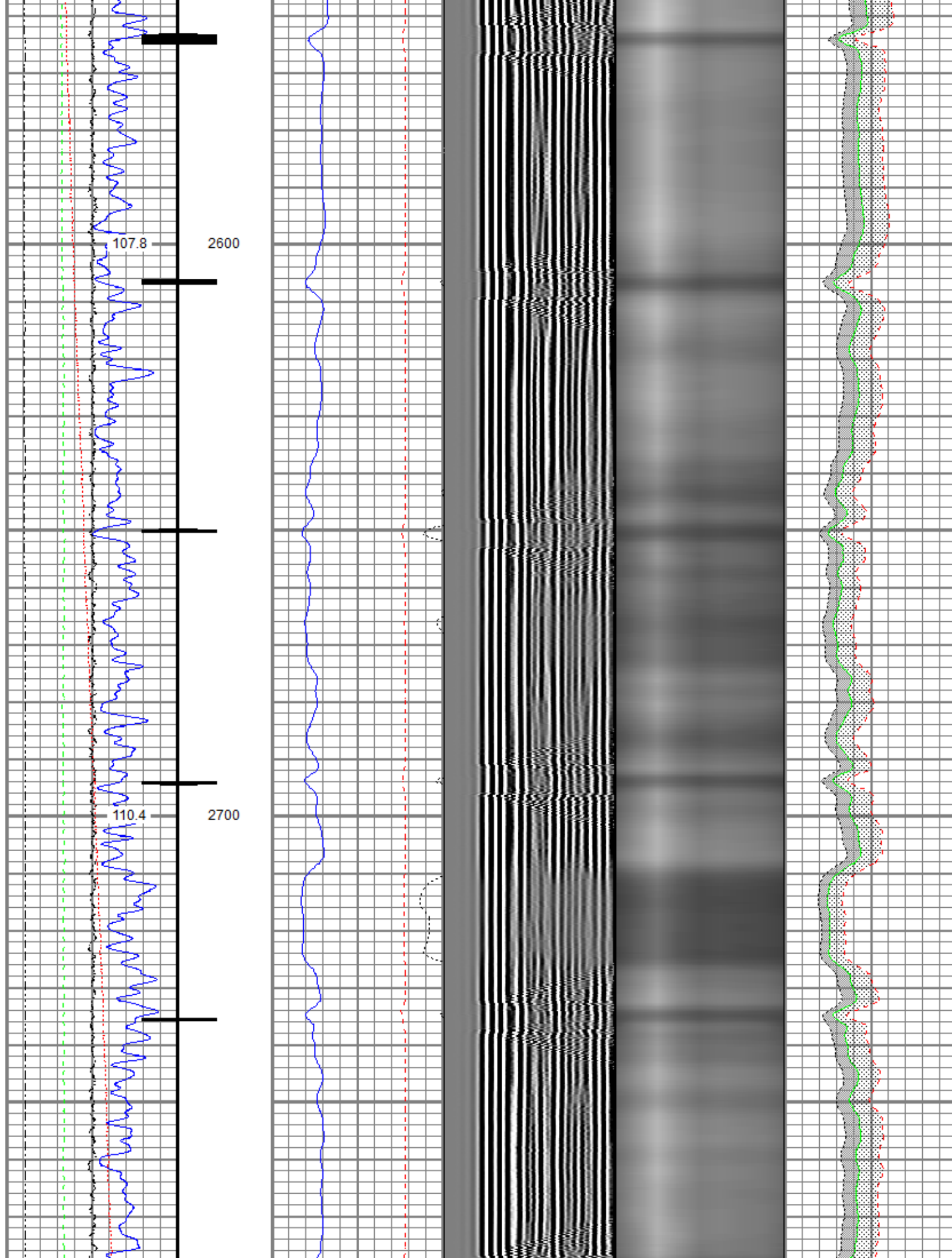


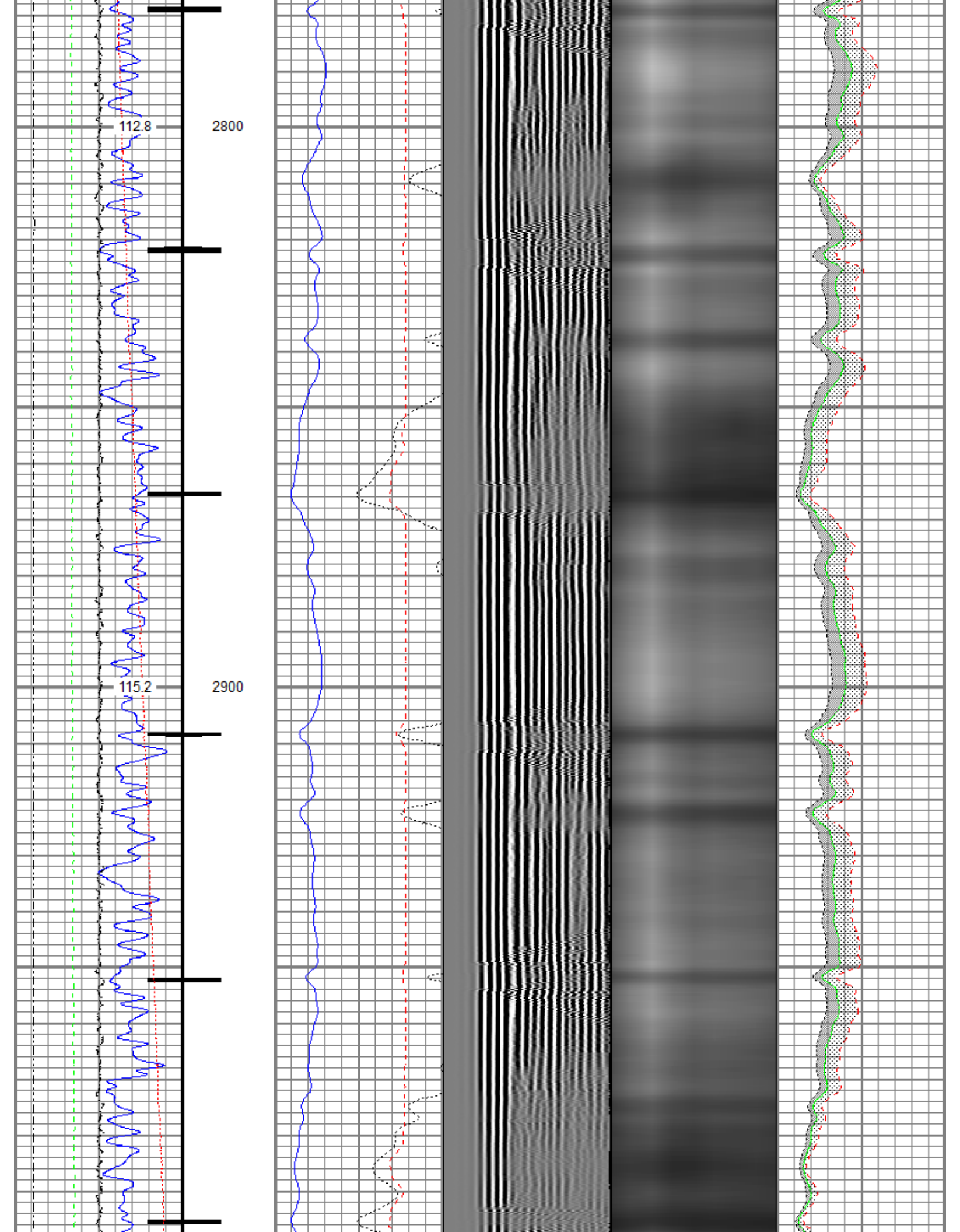


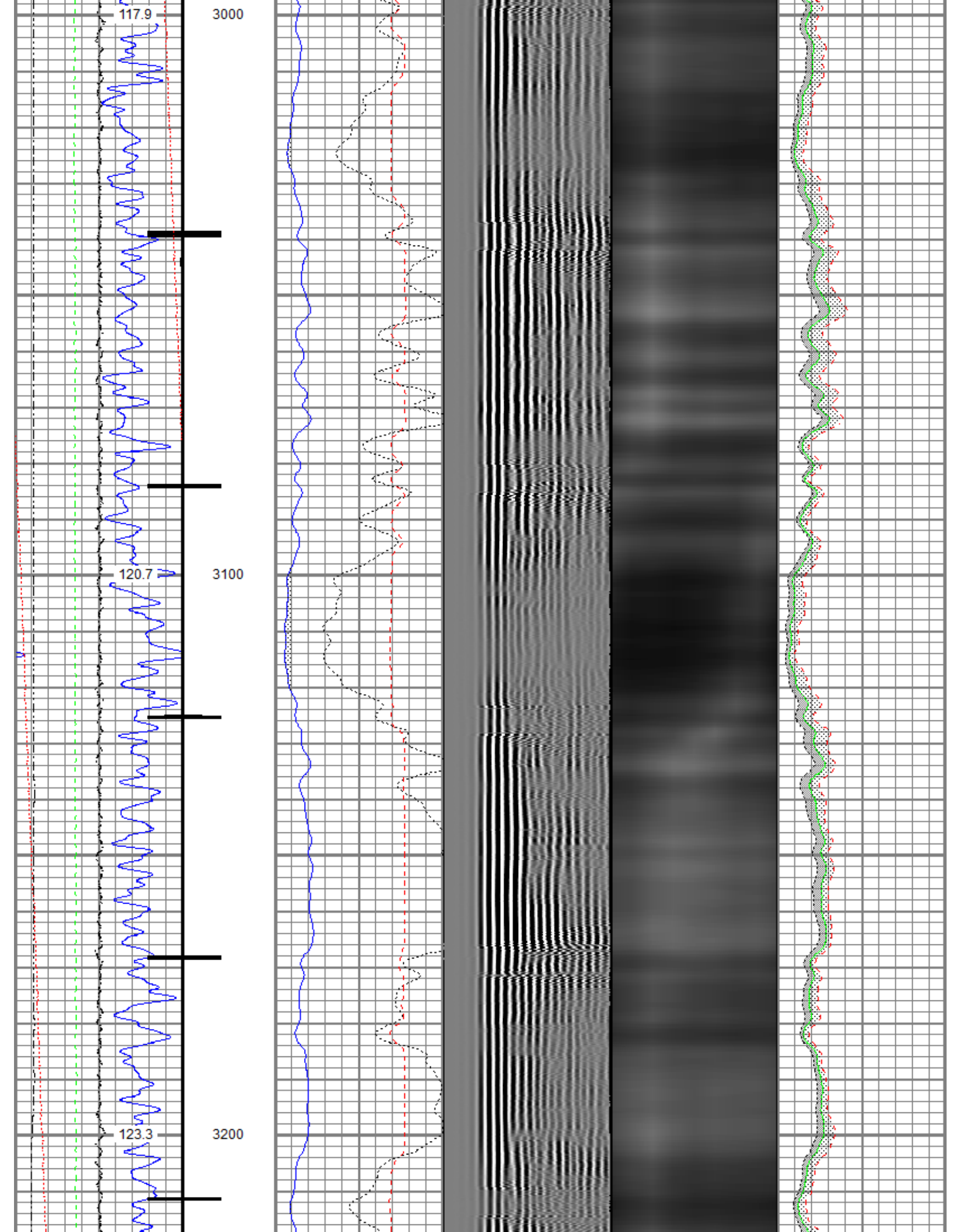


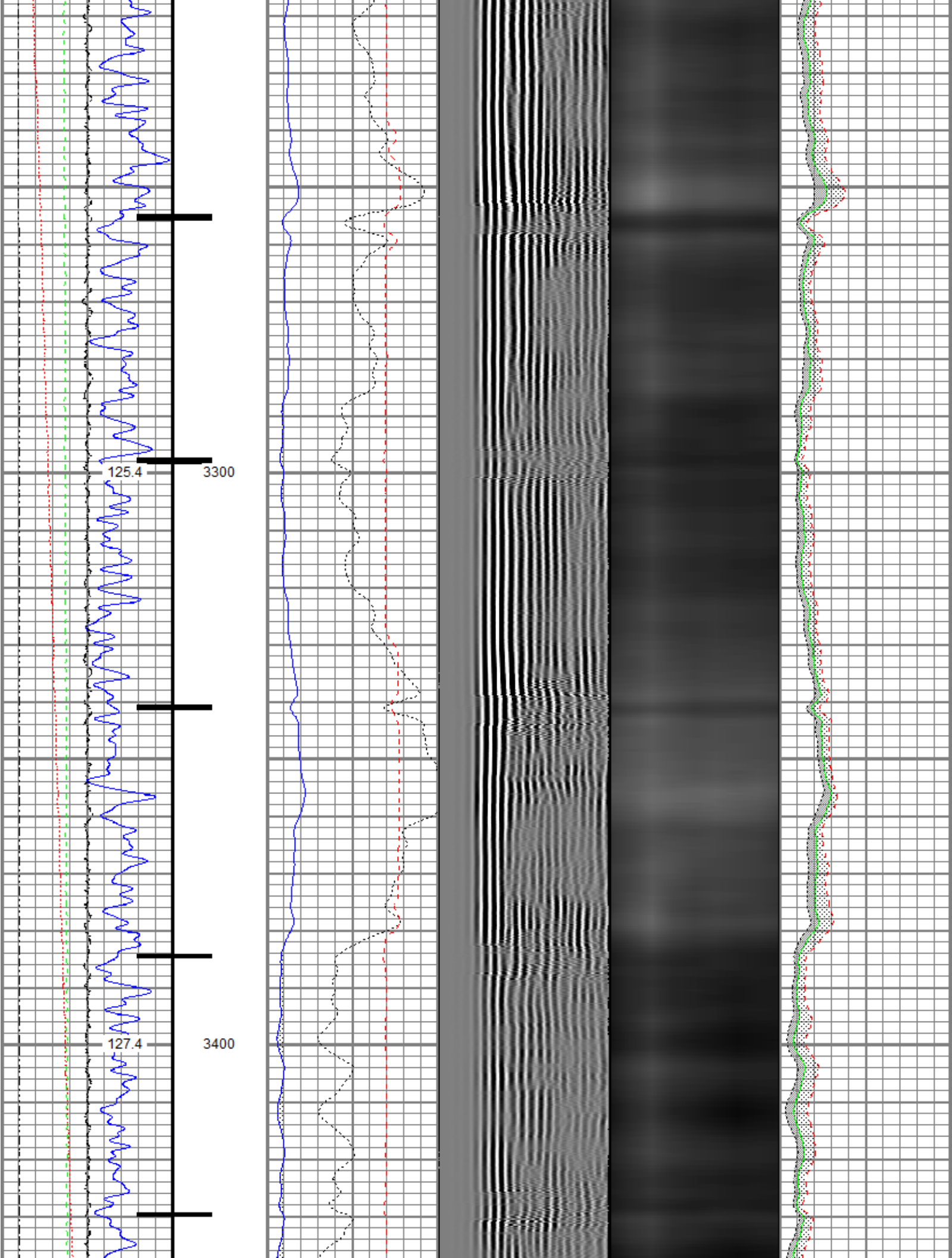


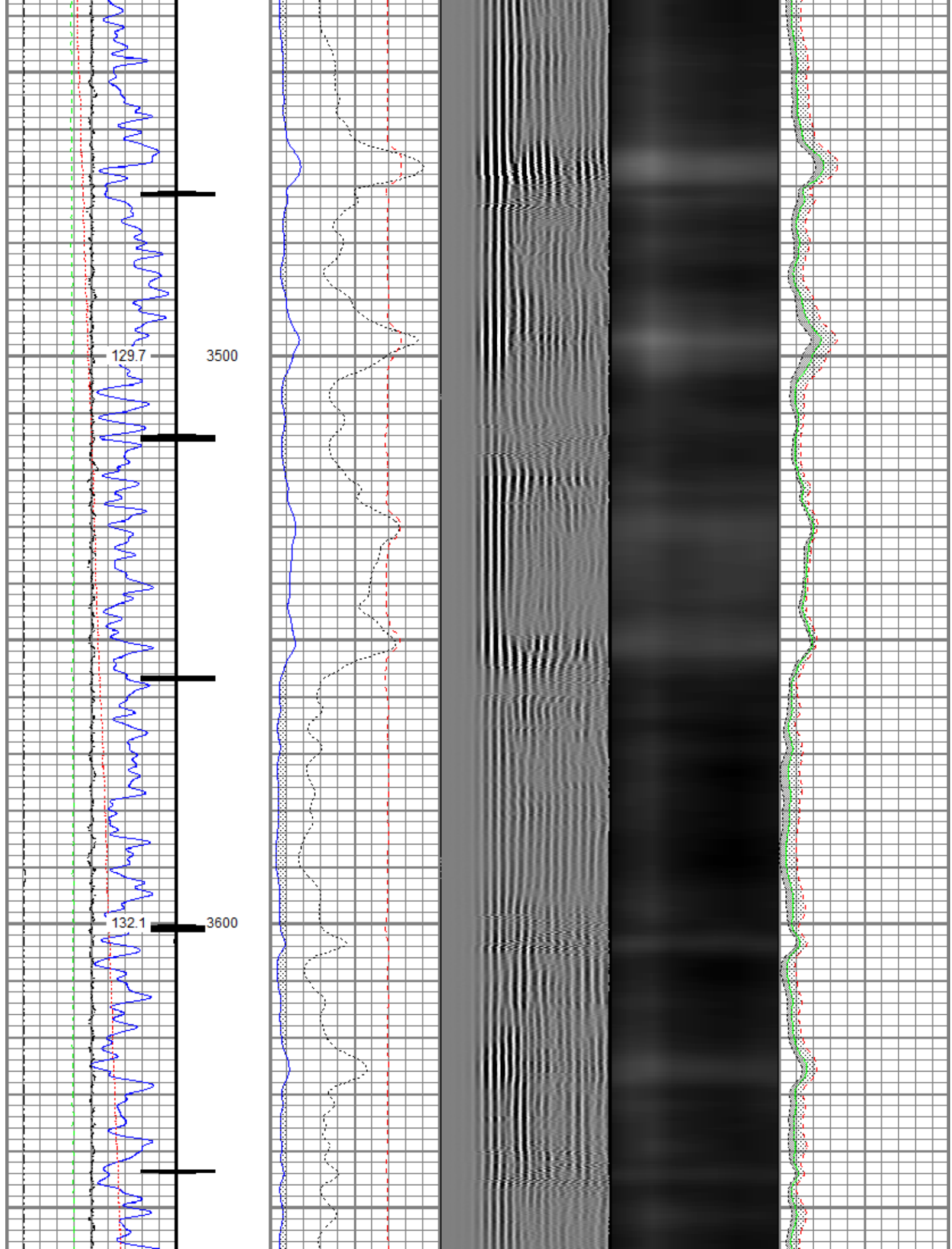


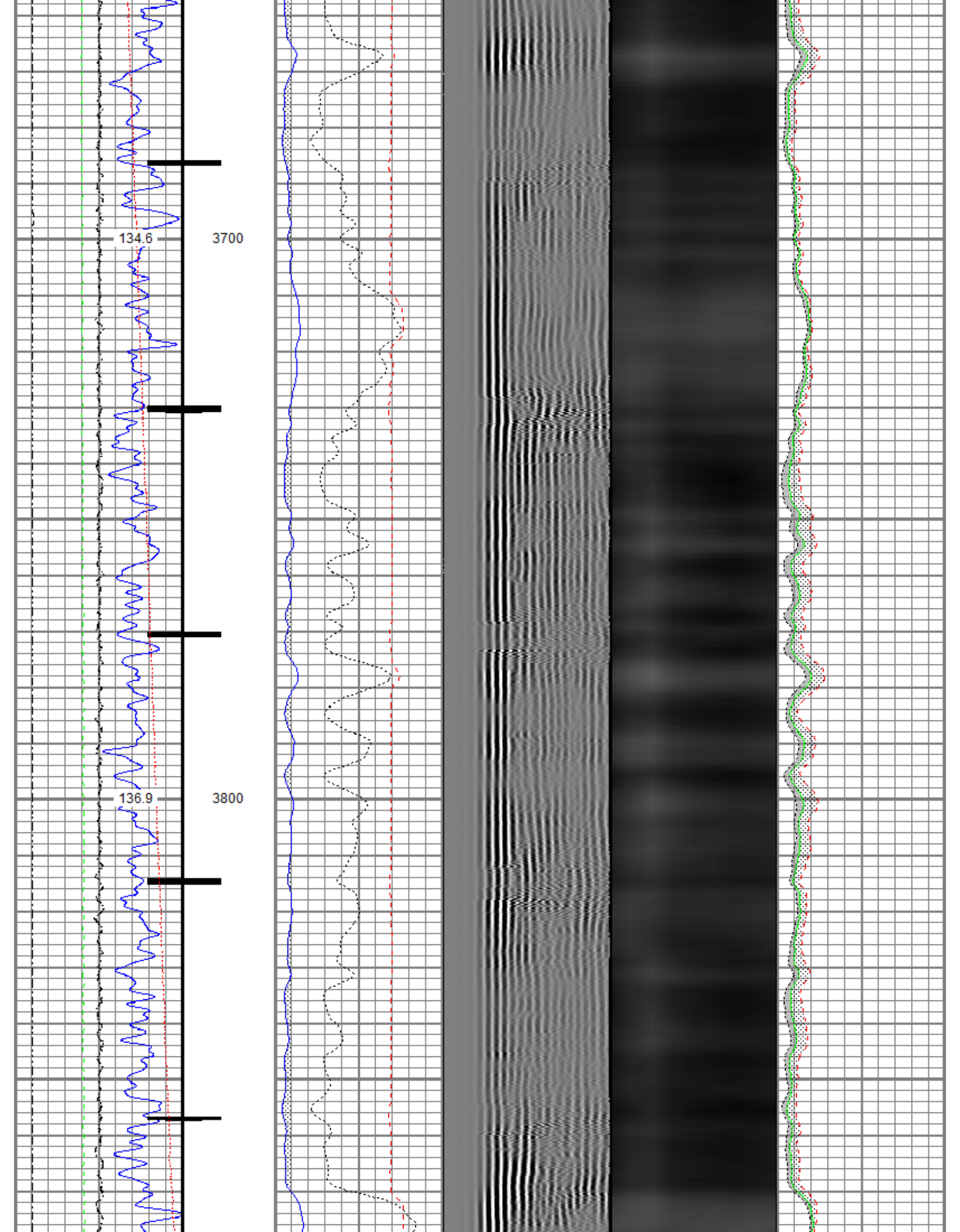


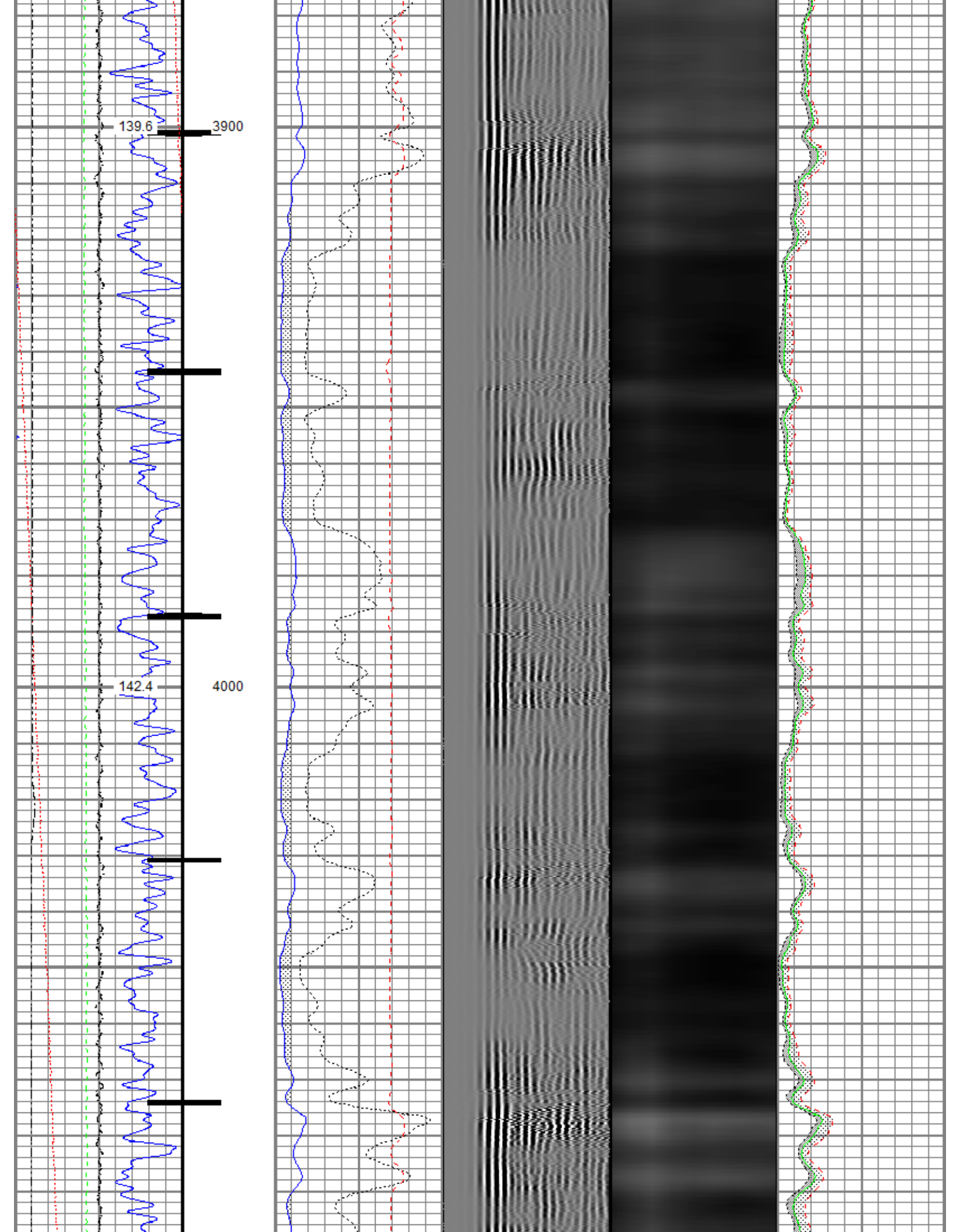


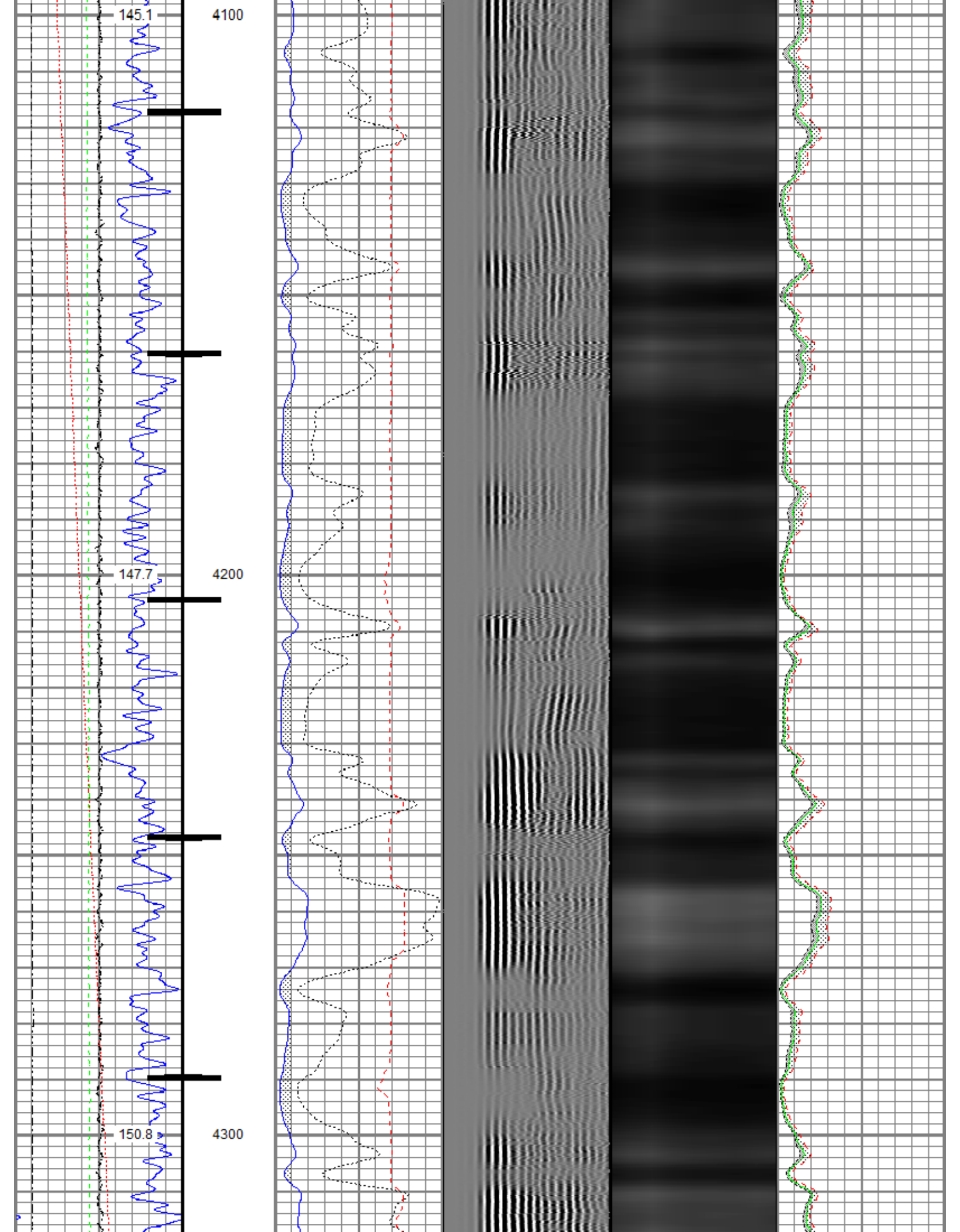


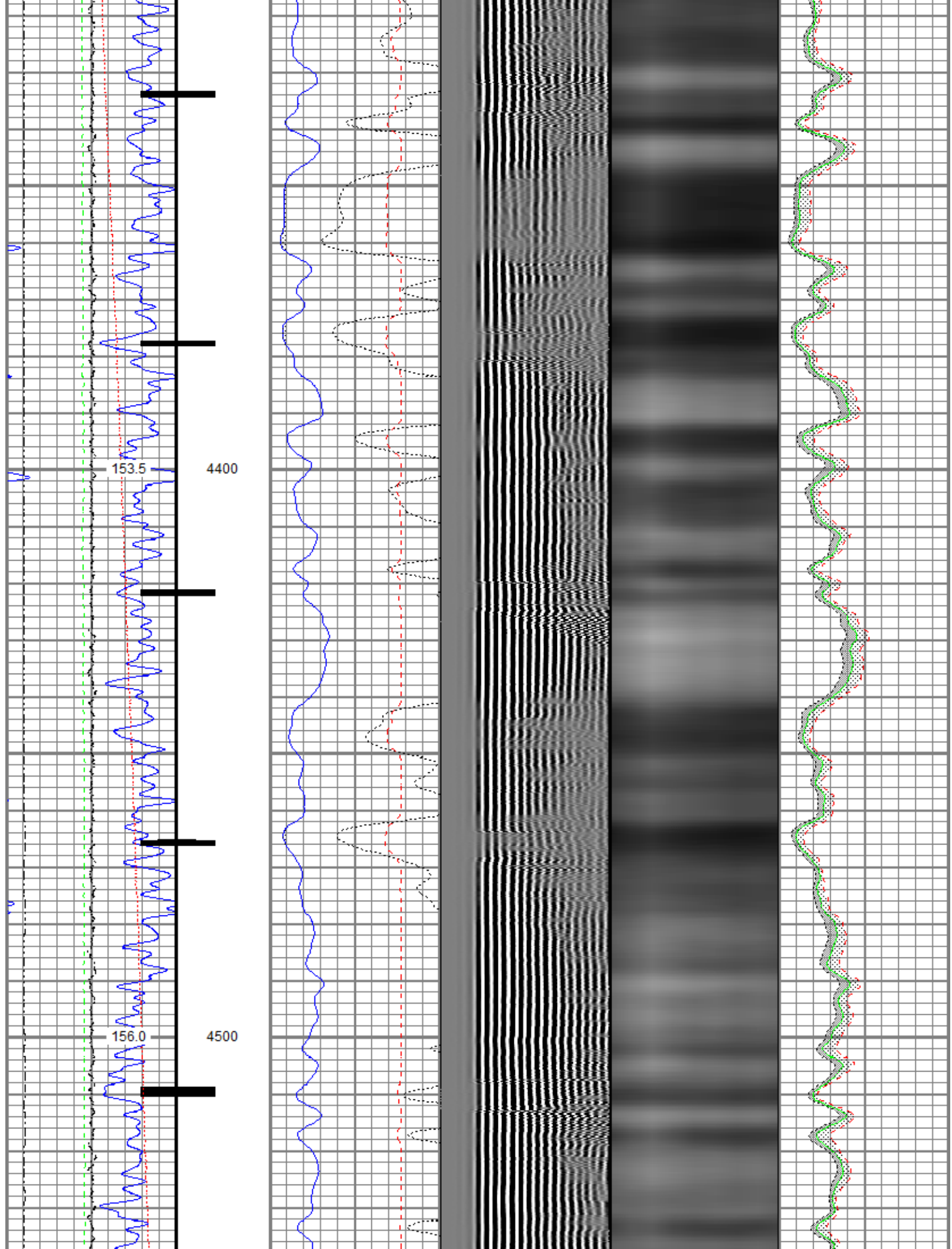


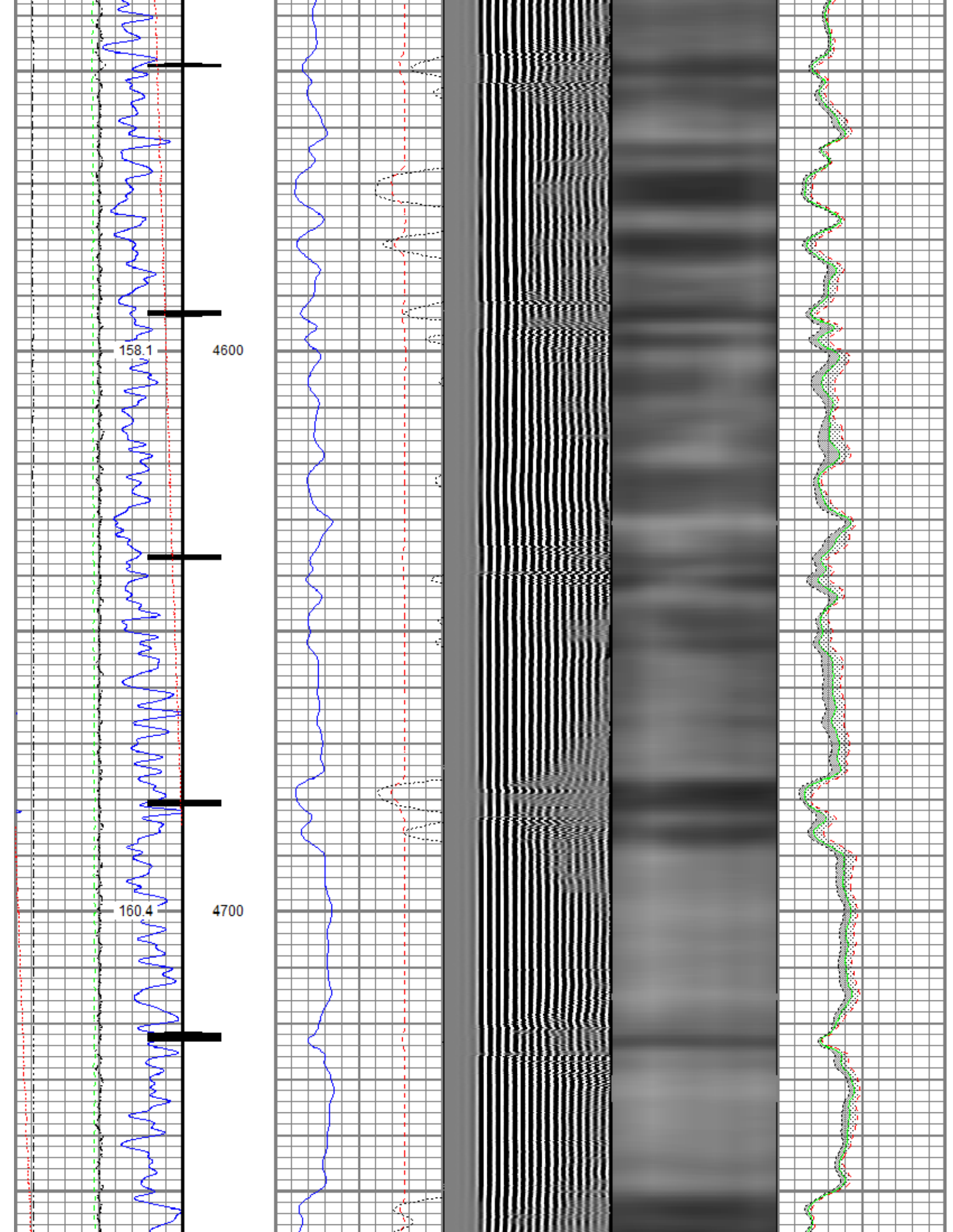


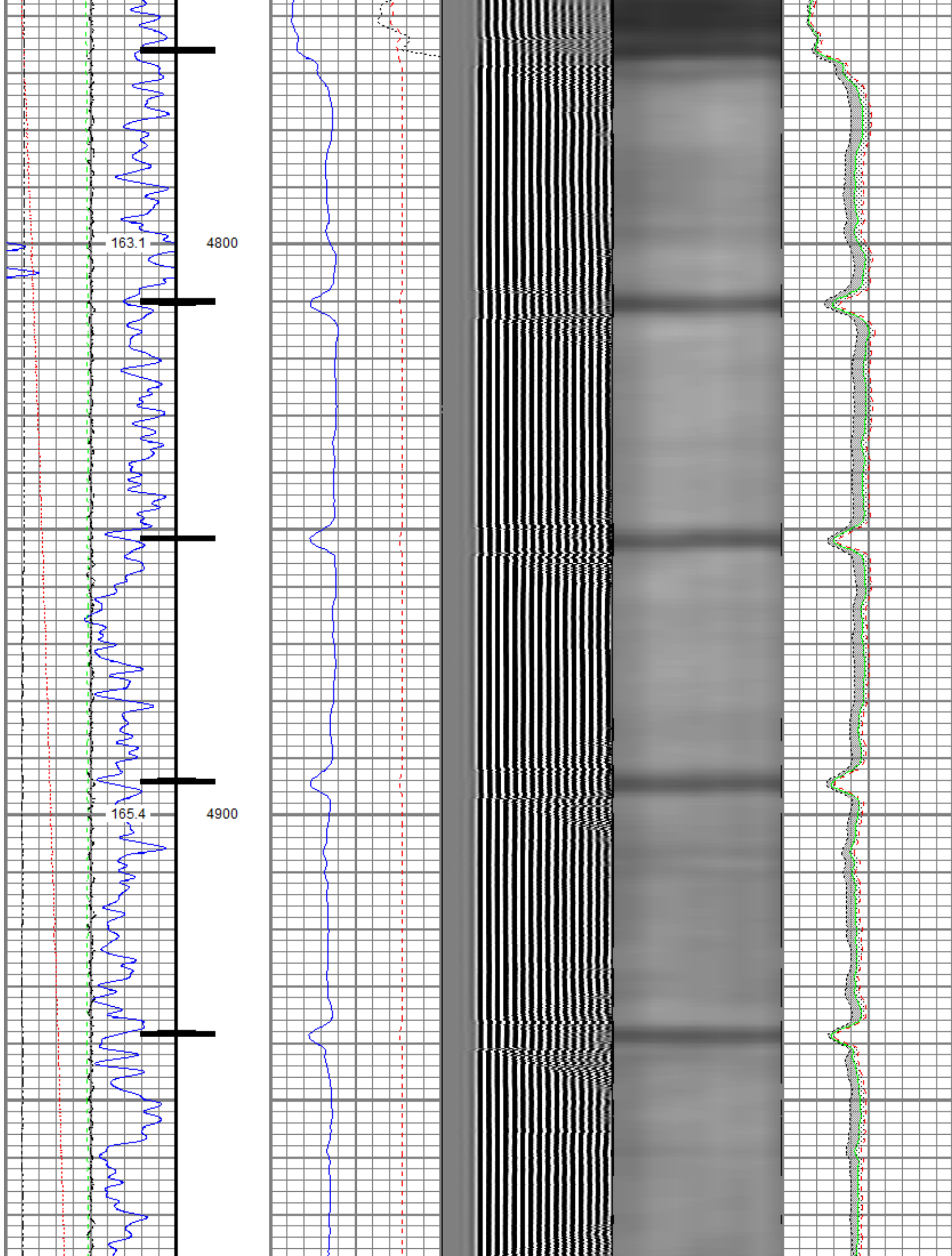


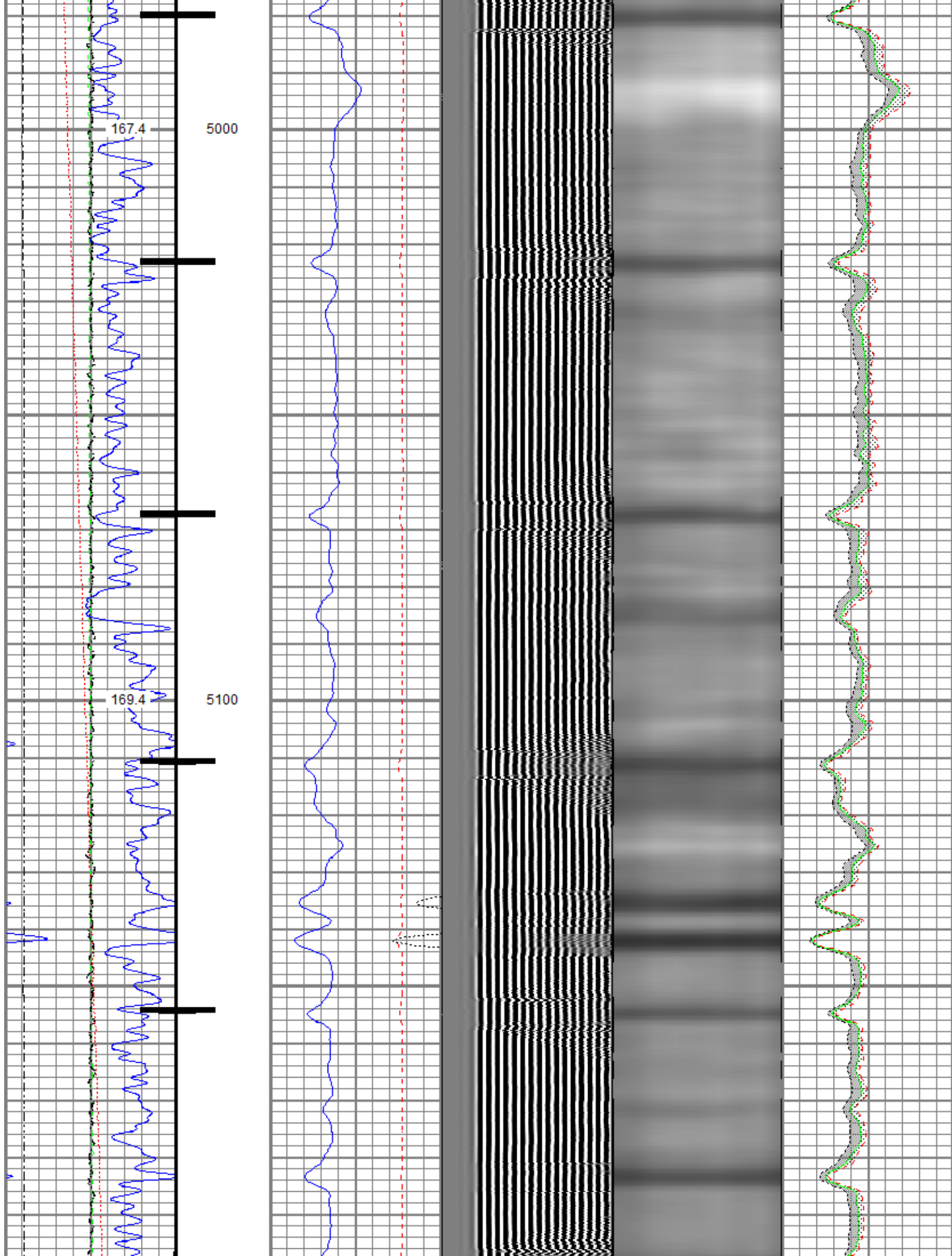


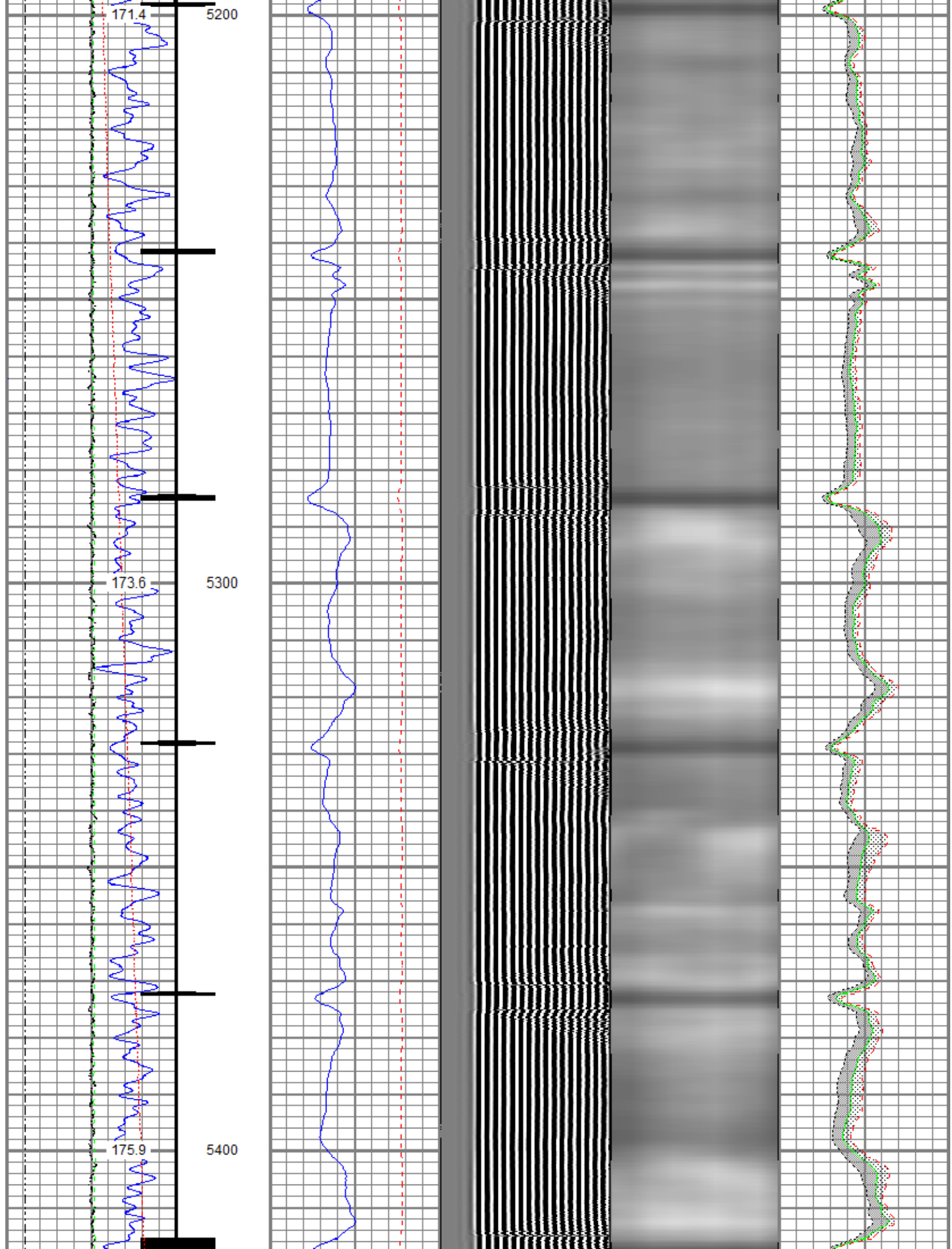




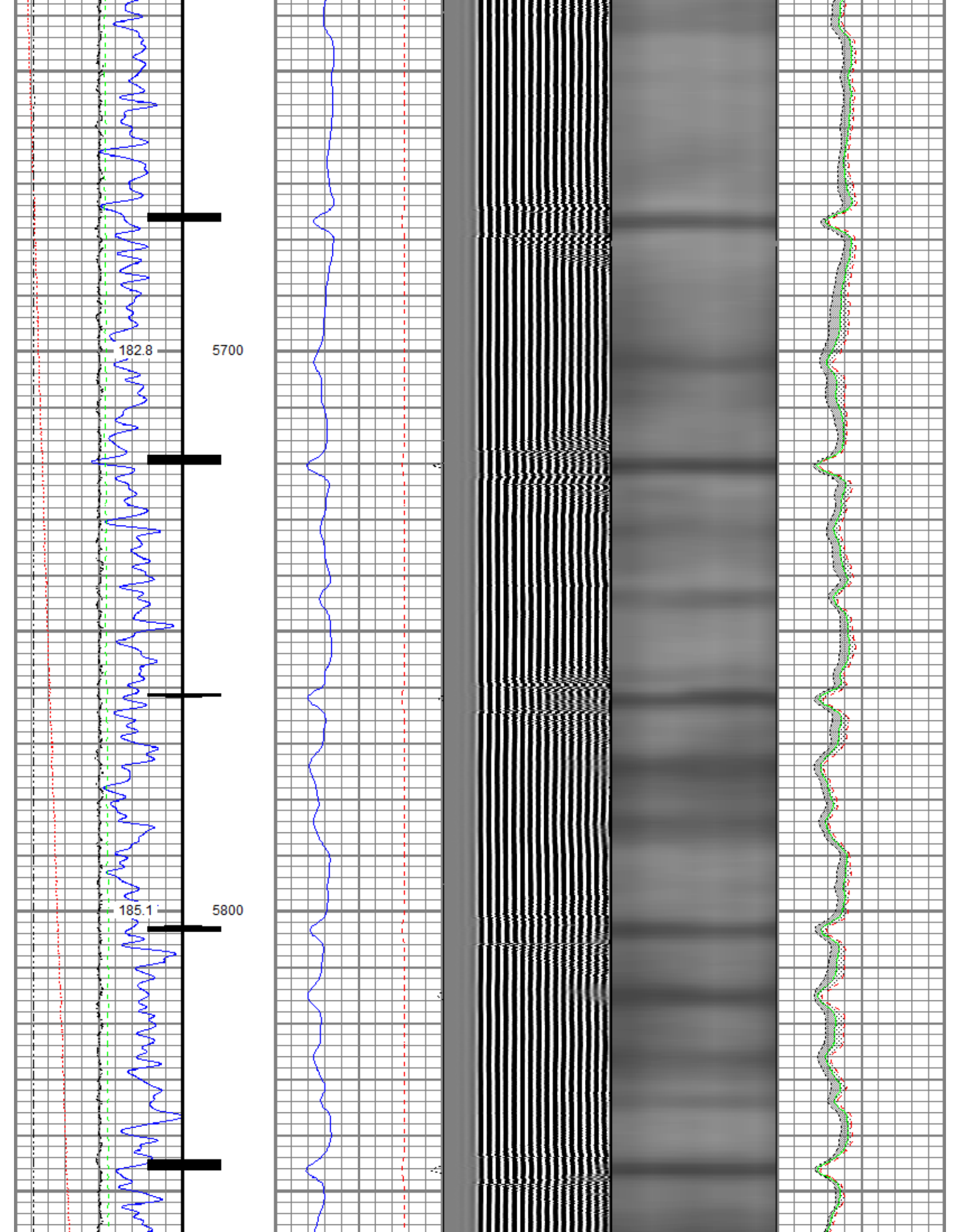


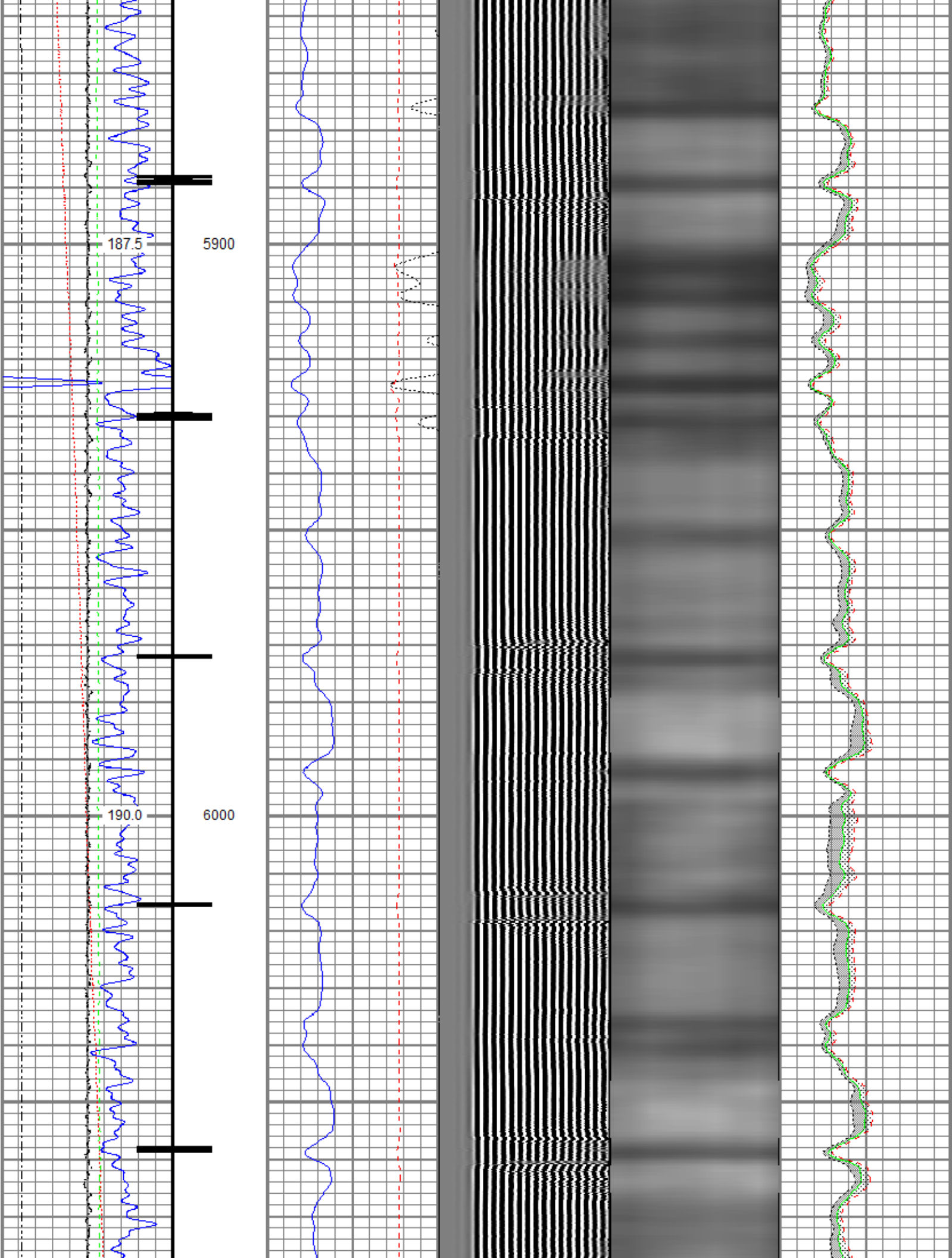


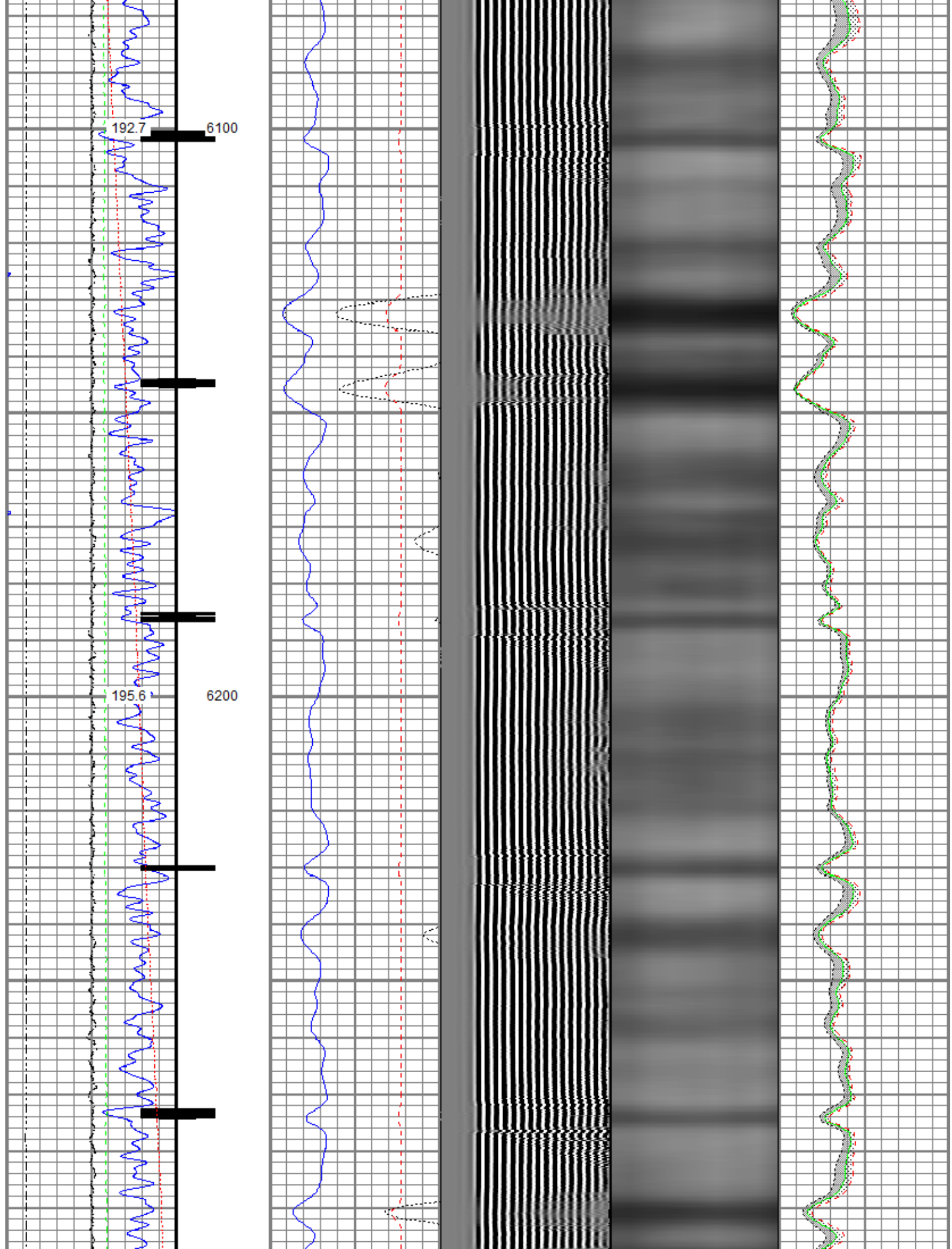


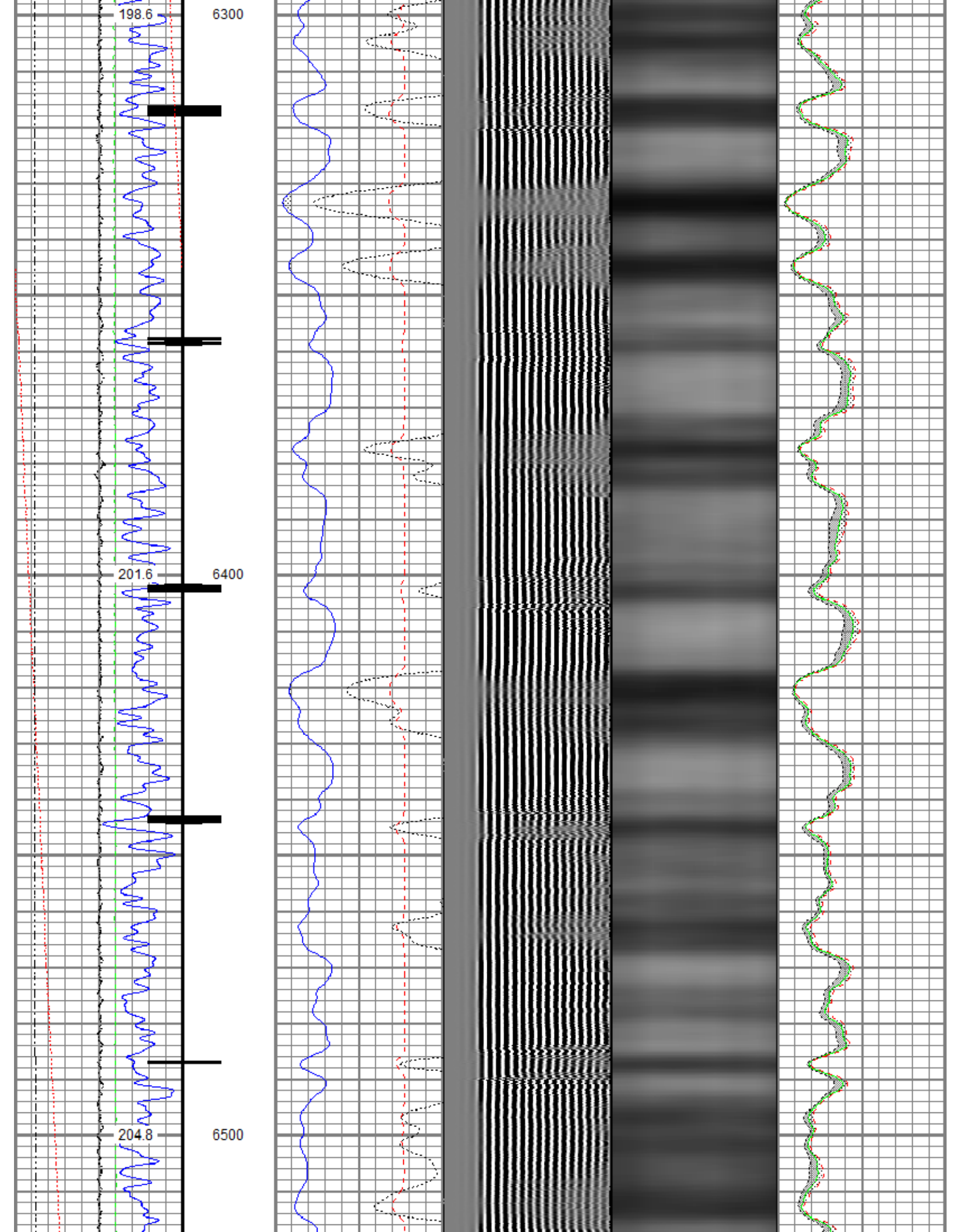


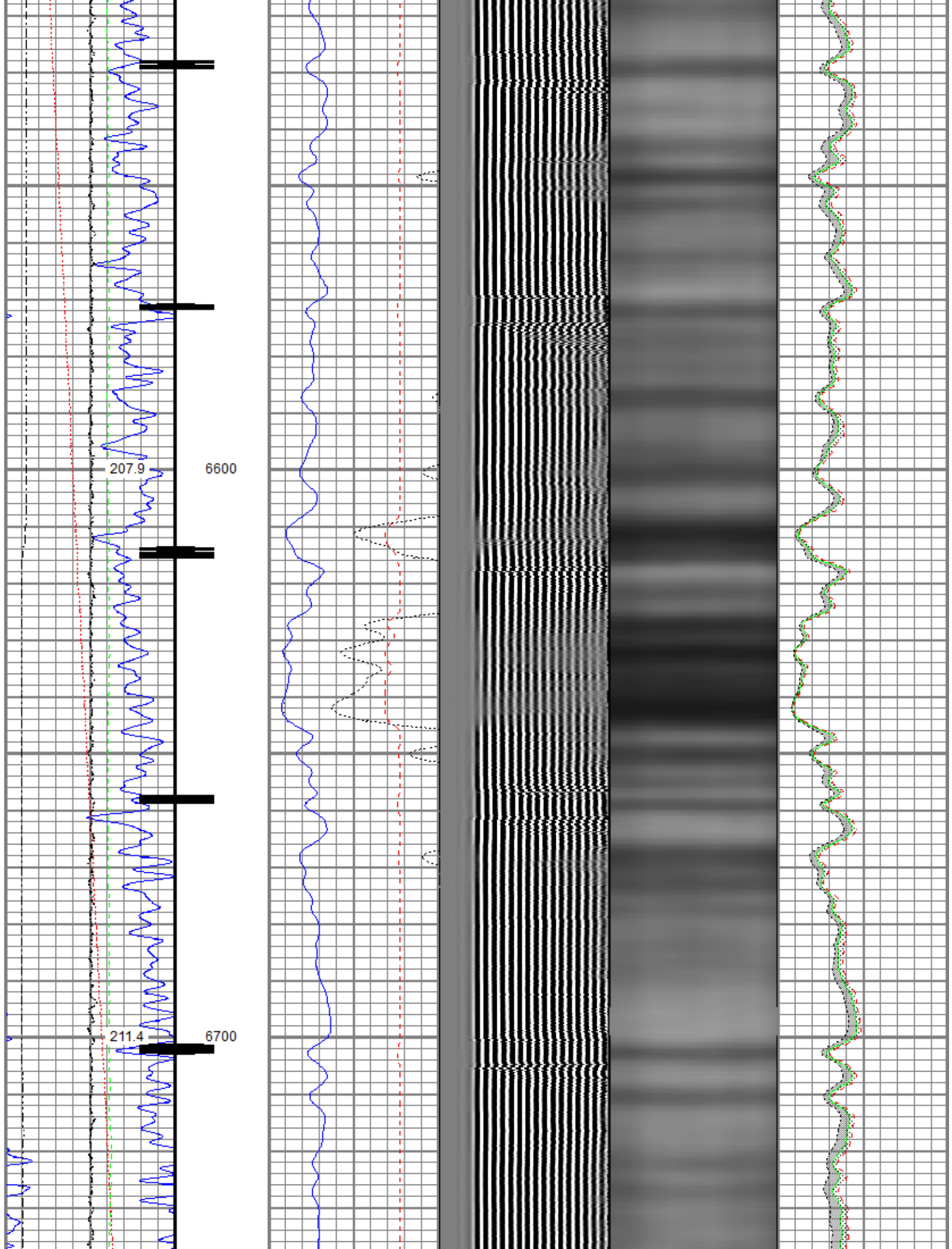


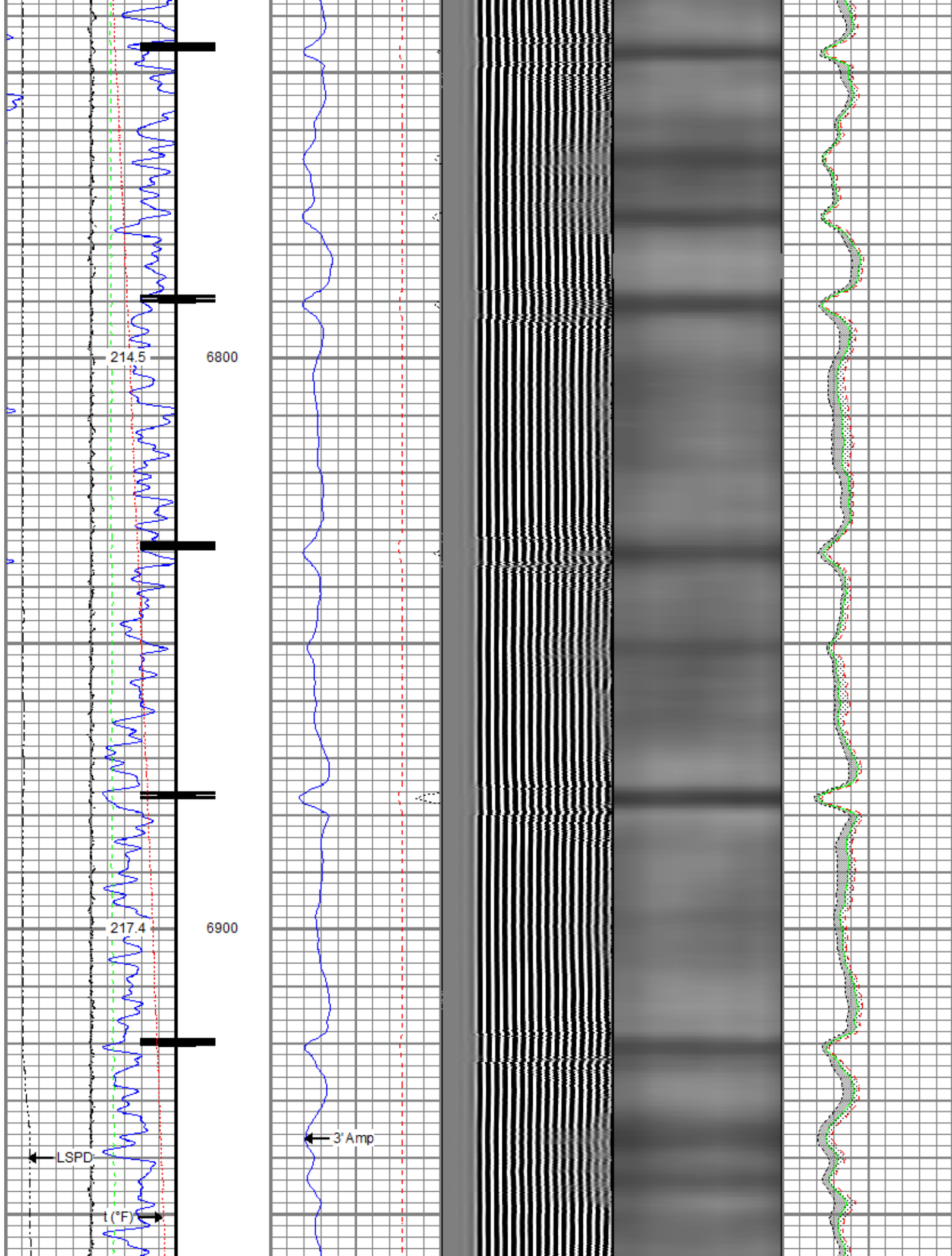


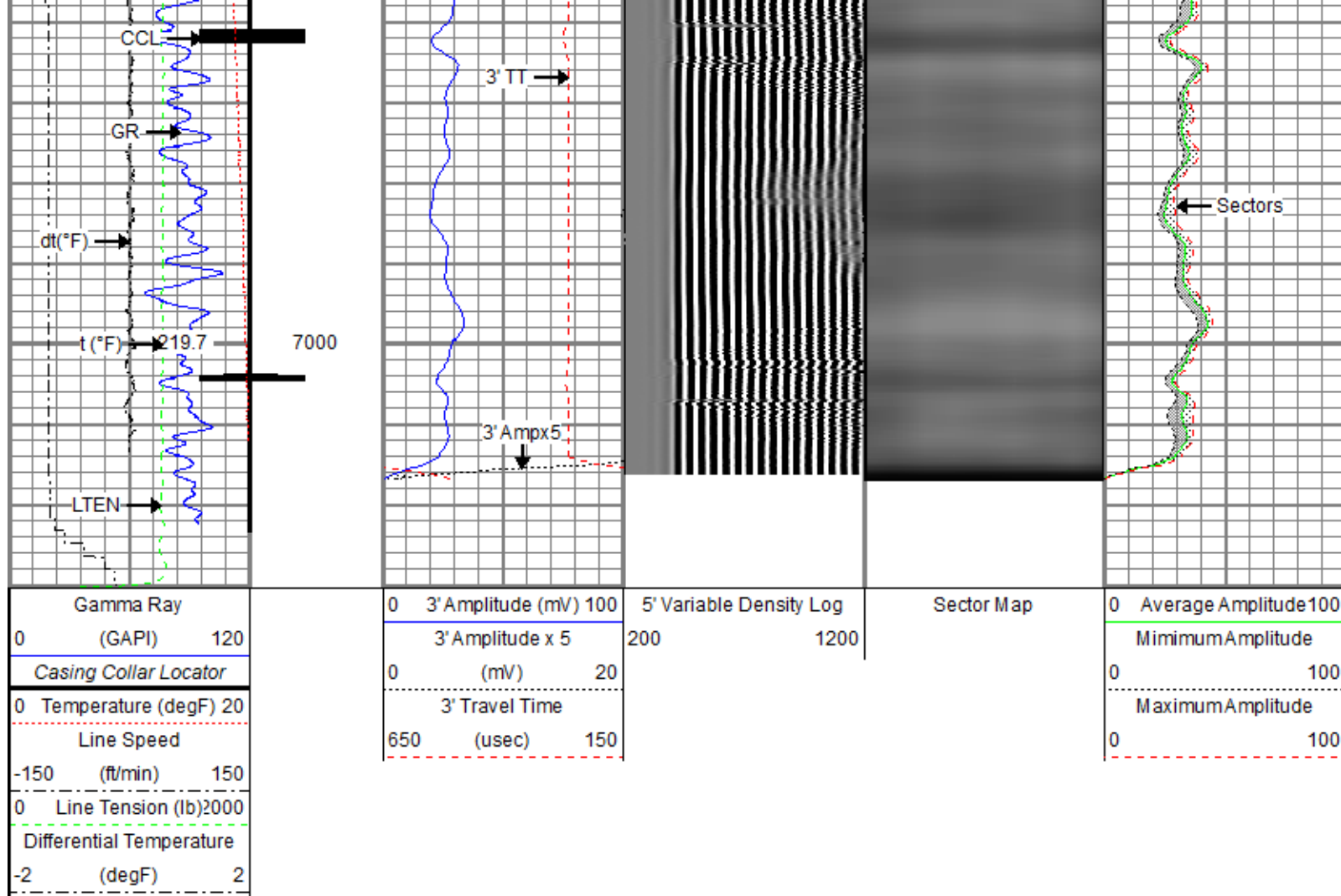








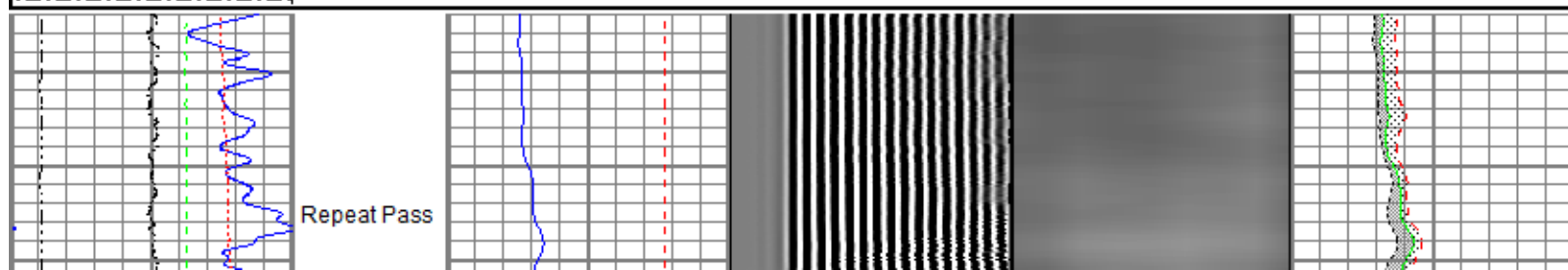
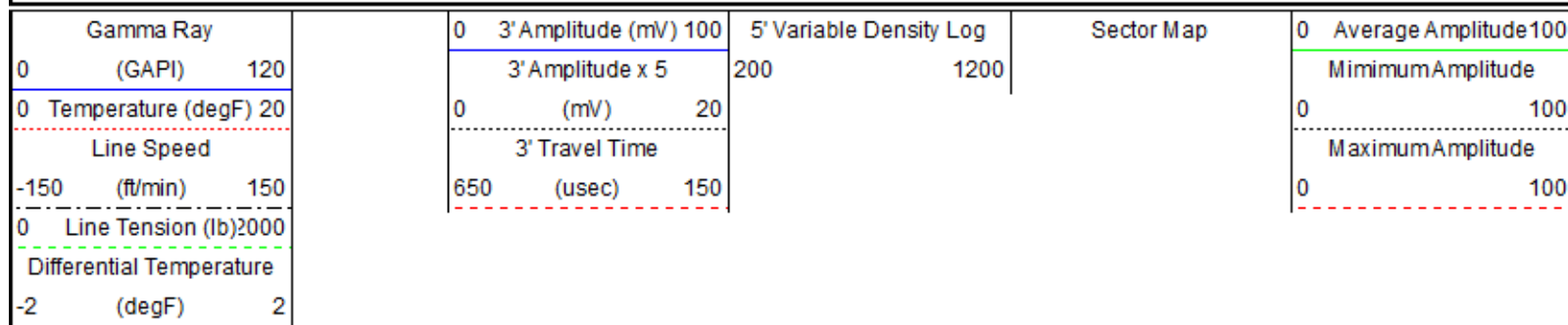


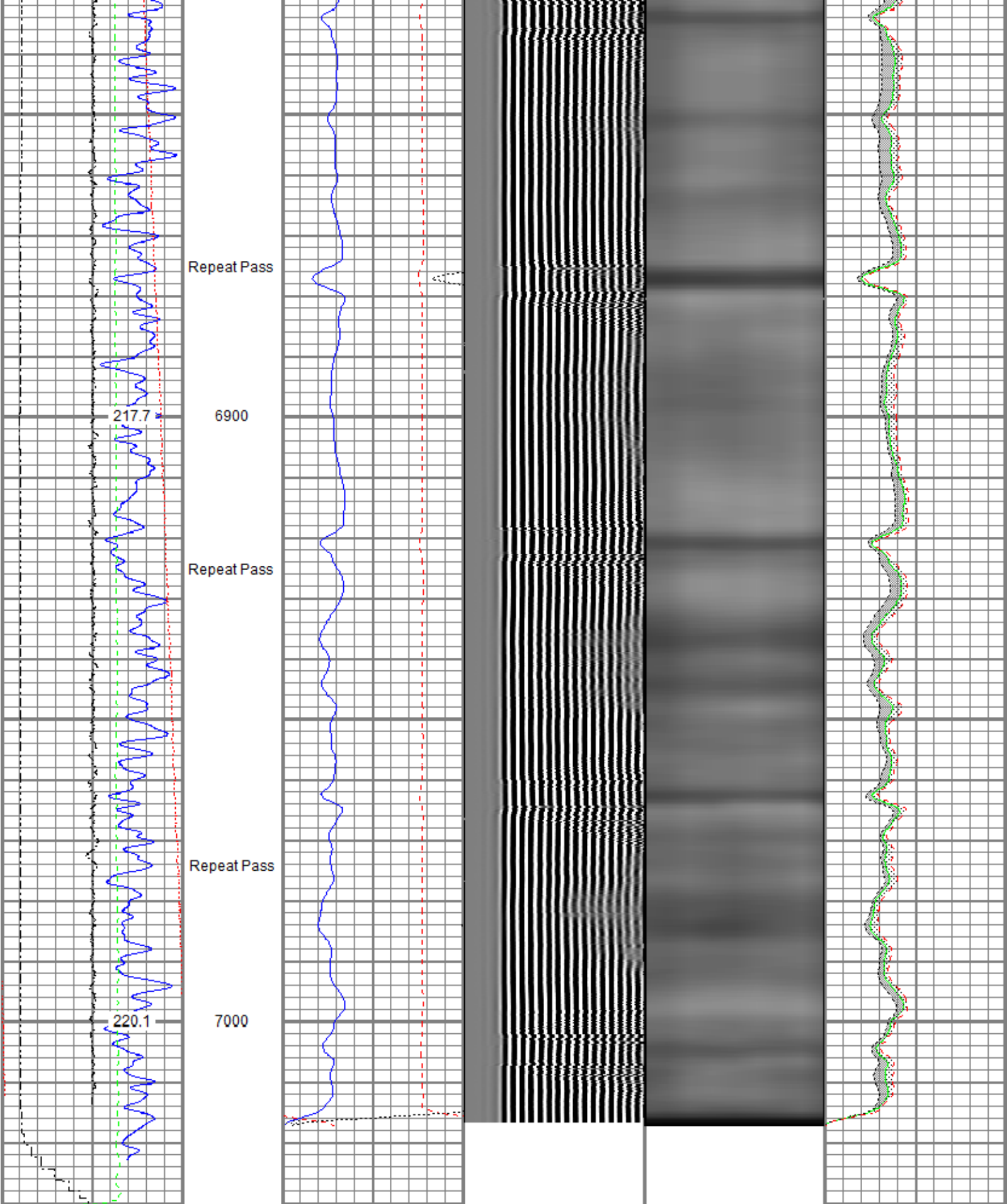


Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

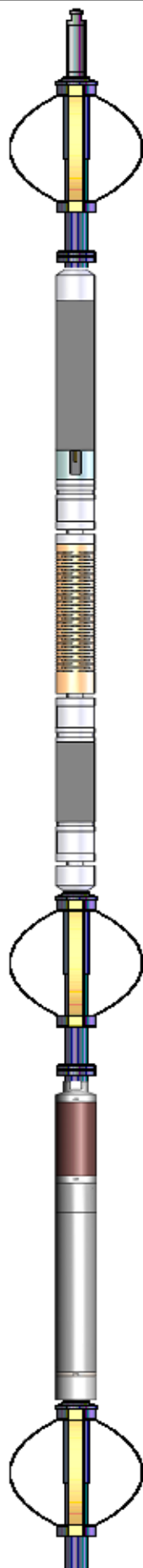
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 Dataset Pathname: rbl/pass2.2
 Presentation Format: ros_radri
 Dataset Creation: Mon Jun 24 09:59:36 2019
 Charted by: Depth in Feet scaled 1:240





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

0	Line Tension (lb)	2000
-2	Differential Temperature (degF)	2

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	17.04		Titan CHD-14375 GO	1.03	1.44	3.60
			Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			
				</		

Dataset: processed_0512349249_anadarko_mab 15-5hz_rbl_06-23-19.db: field/well/rbl/pass4.1
 Total length: 23.86 ft
 Total weight: 223.60 lb
 O.D.: 2.75 in

Calibration Report

Database File c:\programdata\warrior\data\anadarko\0512349249_anadarko_mab 15-5hz_rbl_06-23-19\processed_0512349249_anadarko_m
 Dataset Pathname rbl/pass4.1
 Dataset Creation Sun Jun 23 12:37:09 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: 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'	0.004	0.668	0.800	71.921	107.160	0.349
CAL	0.006	0.700				
5'	0.003	0.755	0.800	71.921	94.597	0.496
SUM						
S1	0.003	0.818	0.000	100.000	122.725	-0.394
S2	0.004	0.795	0.000	100.000	126.555	-0.549
S3	0.004	0.720	0.000	100.000	139.625	-0.581
S4	0.004	0.696	0.000	100.000	144.547	-0.594
S5	0.004	0.717	0.000	100.000	140.343	-0.570
S6	0.004	0.705	0.000	100.000	142.713	-0.615
S7	0.004	0.706	0.000	100.000	142.637	-0.633
S8	0.005	0.721	0.000	100.000	139.678	-0.682

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						

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 15-5HZ
Field Wattenberg
County Weld
State Colorado