



County Weld State Colorado

Other Services 17.7%

1870

K.B.	4917
D.F.	---
G.L.	4900

date	16-AUG-2018
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January			
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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 Kelly Bushing at 17 FT
Adjusted 0 FT to Correlate with Kelly Bushing
Unable to log Casing Tally reported Marker Joint at 6680 FT due to RBP set depth
Ran JB/GR down to 7672 FT
Set RBP at 6660 FT
Log ran from 6640 FT 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!!

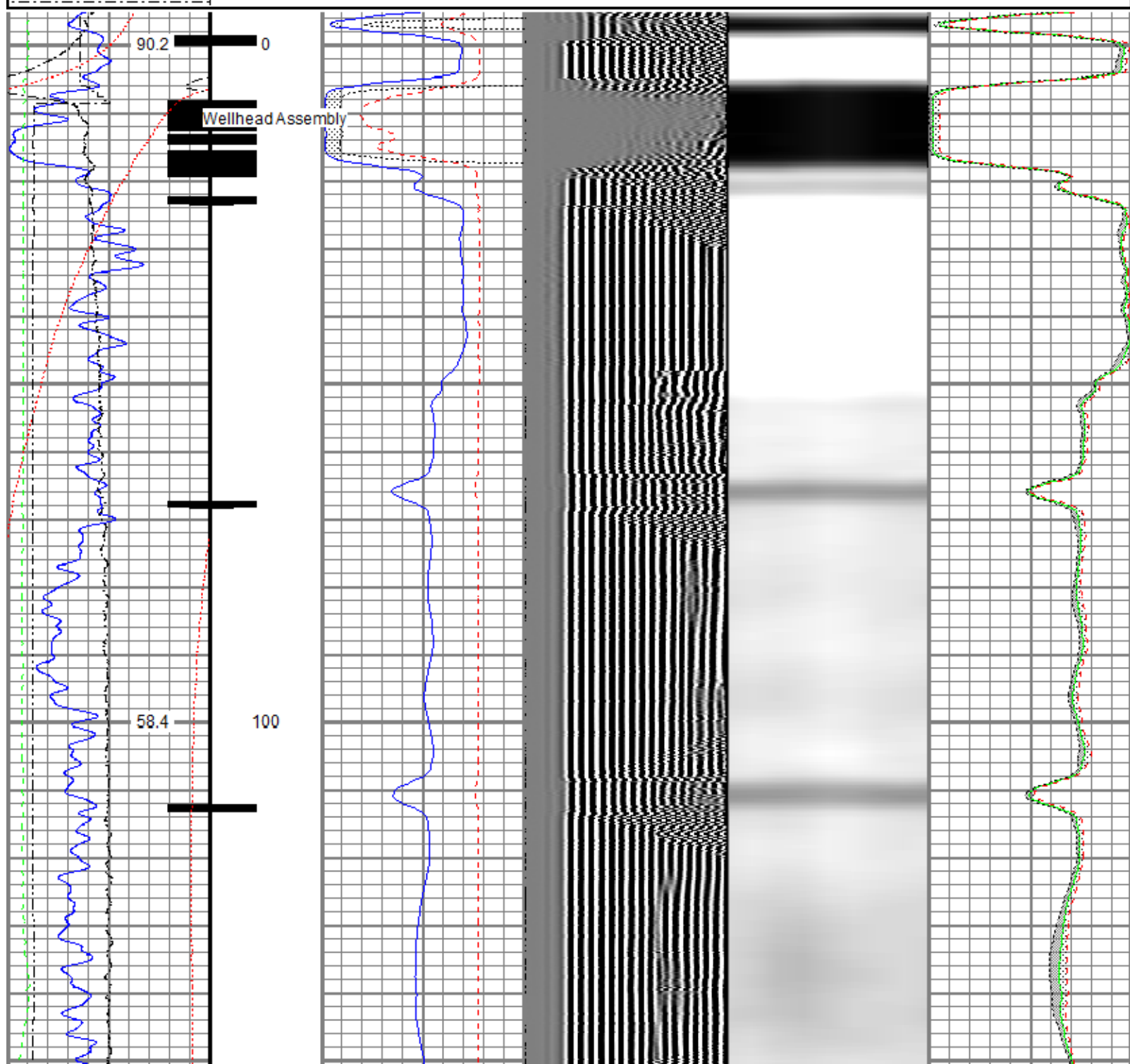
Main Pass

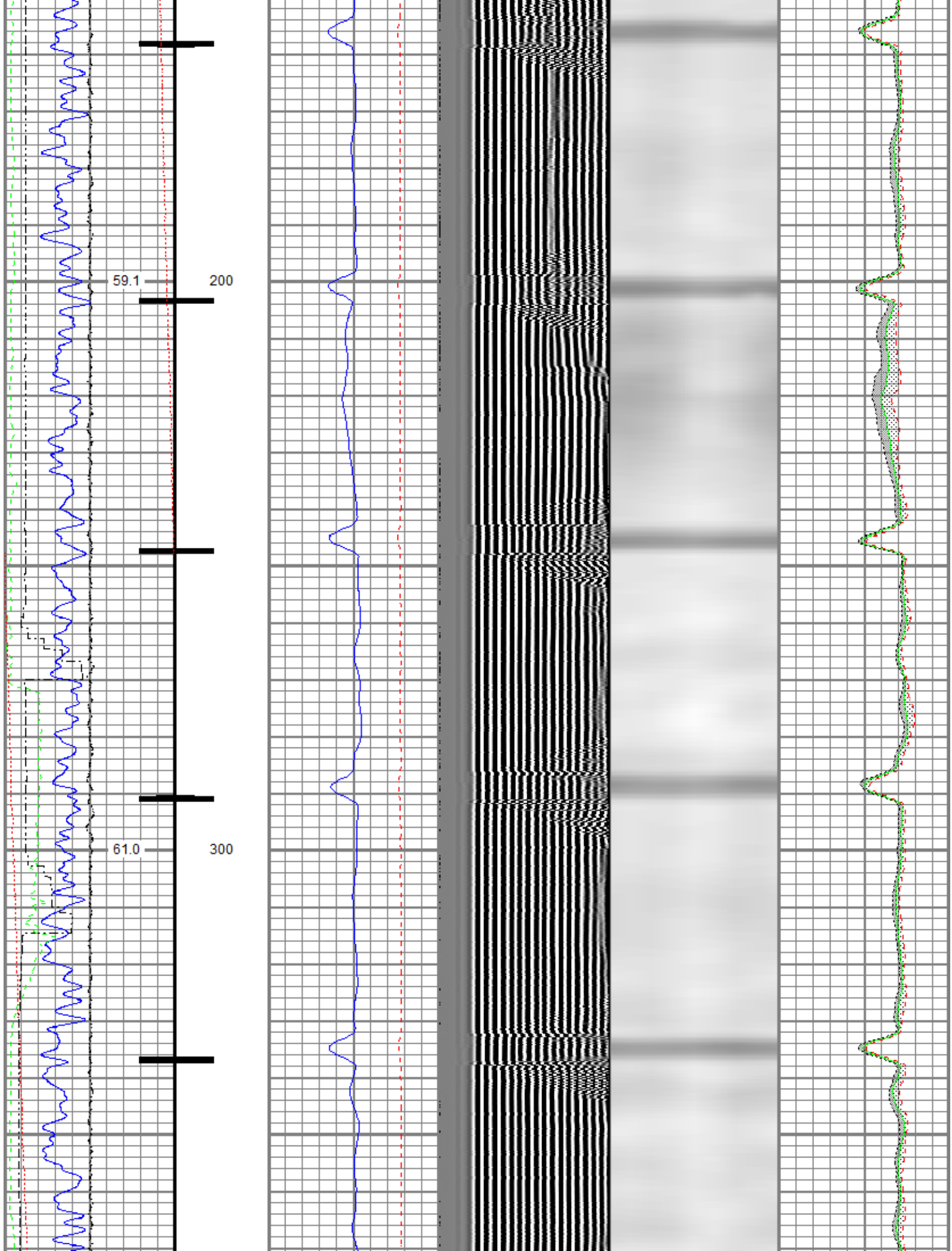


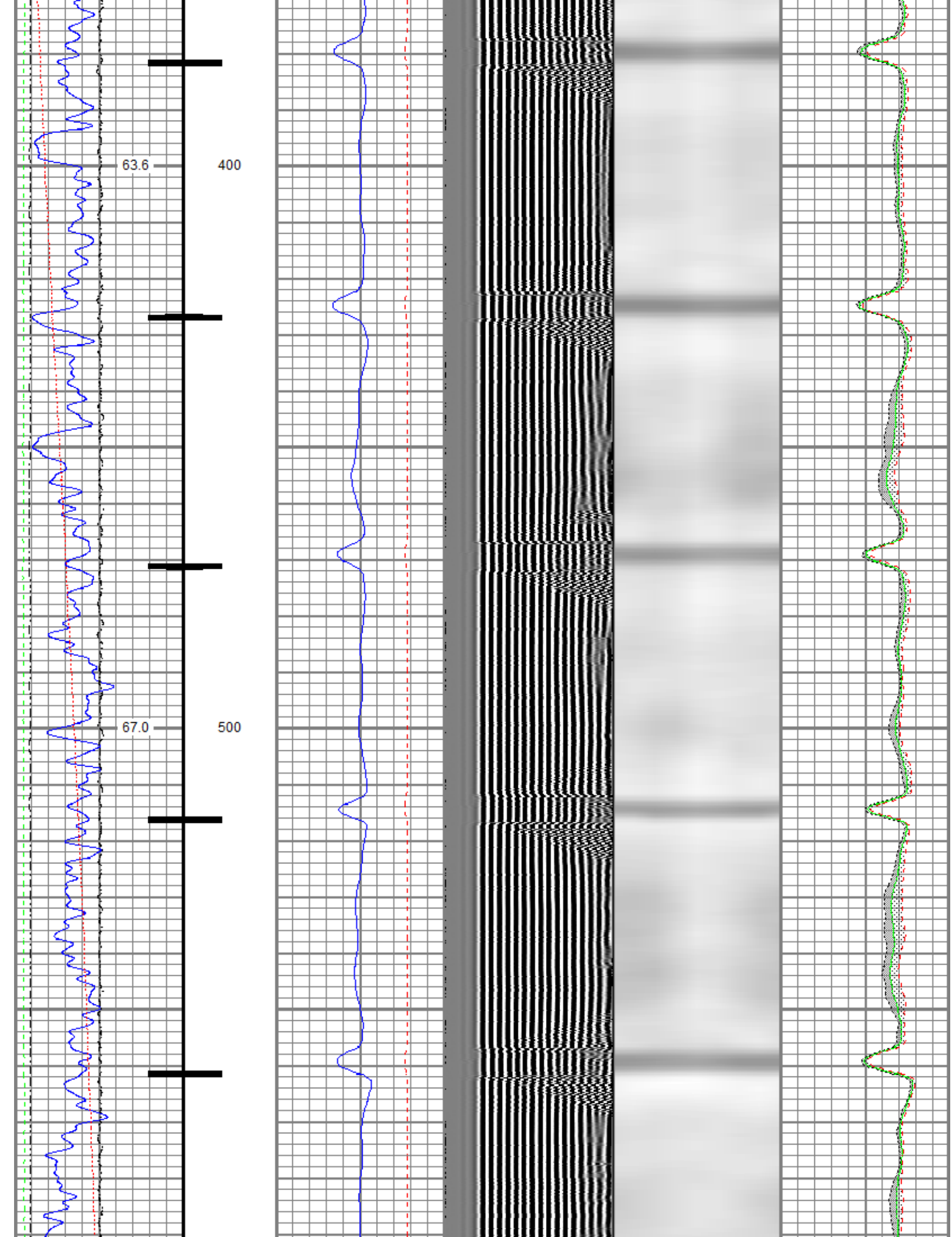
Recorded with 2000 PSI Surface-Induced Pressure

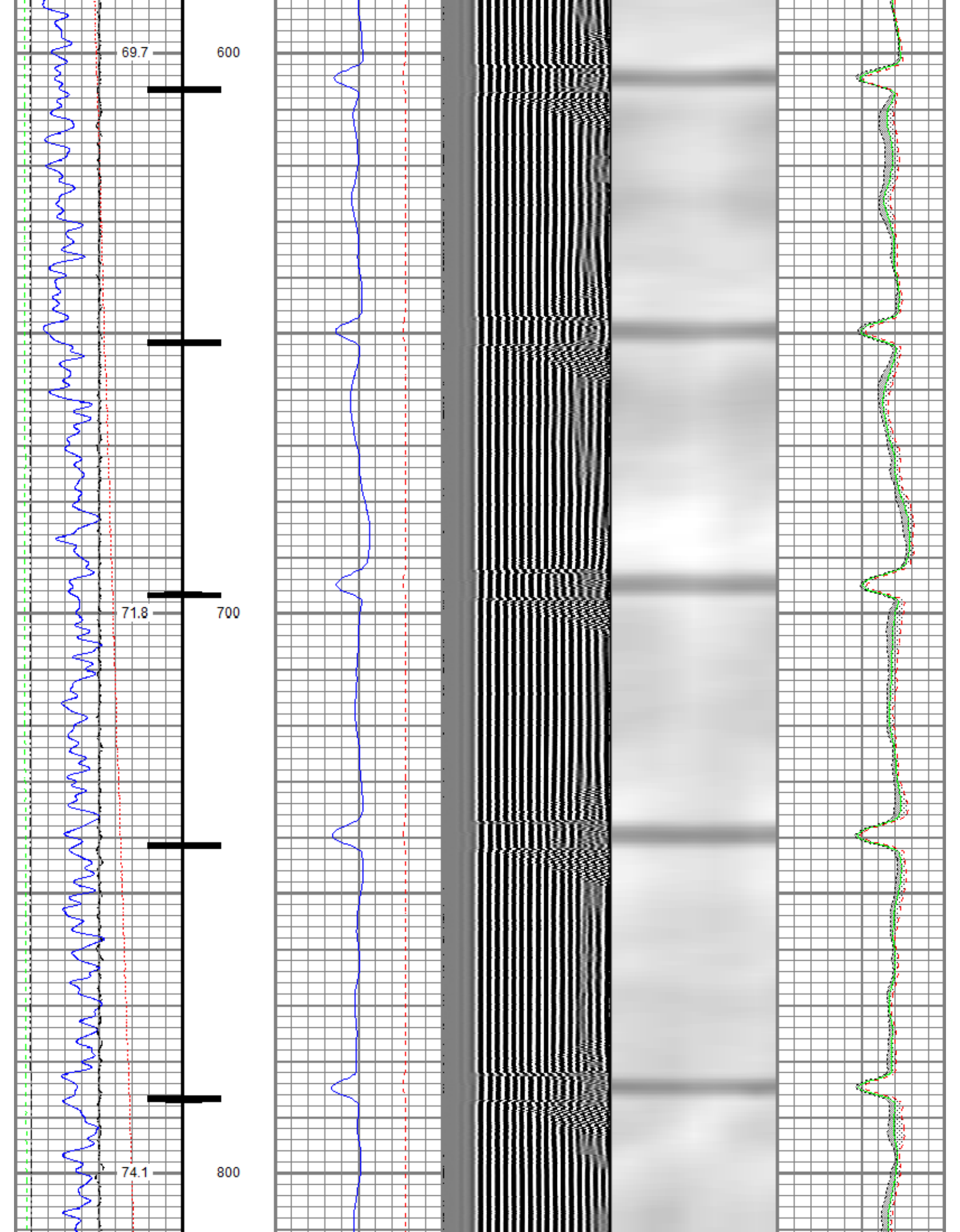
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Dataset Pathname	Main.2
Presentation Format	ros_radri
Dataset Creation	Fri Aug 17 09:53:51 2018
Charted by	Depth in Feet scaled 1:240

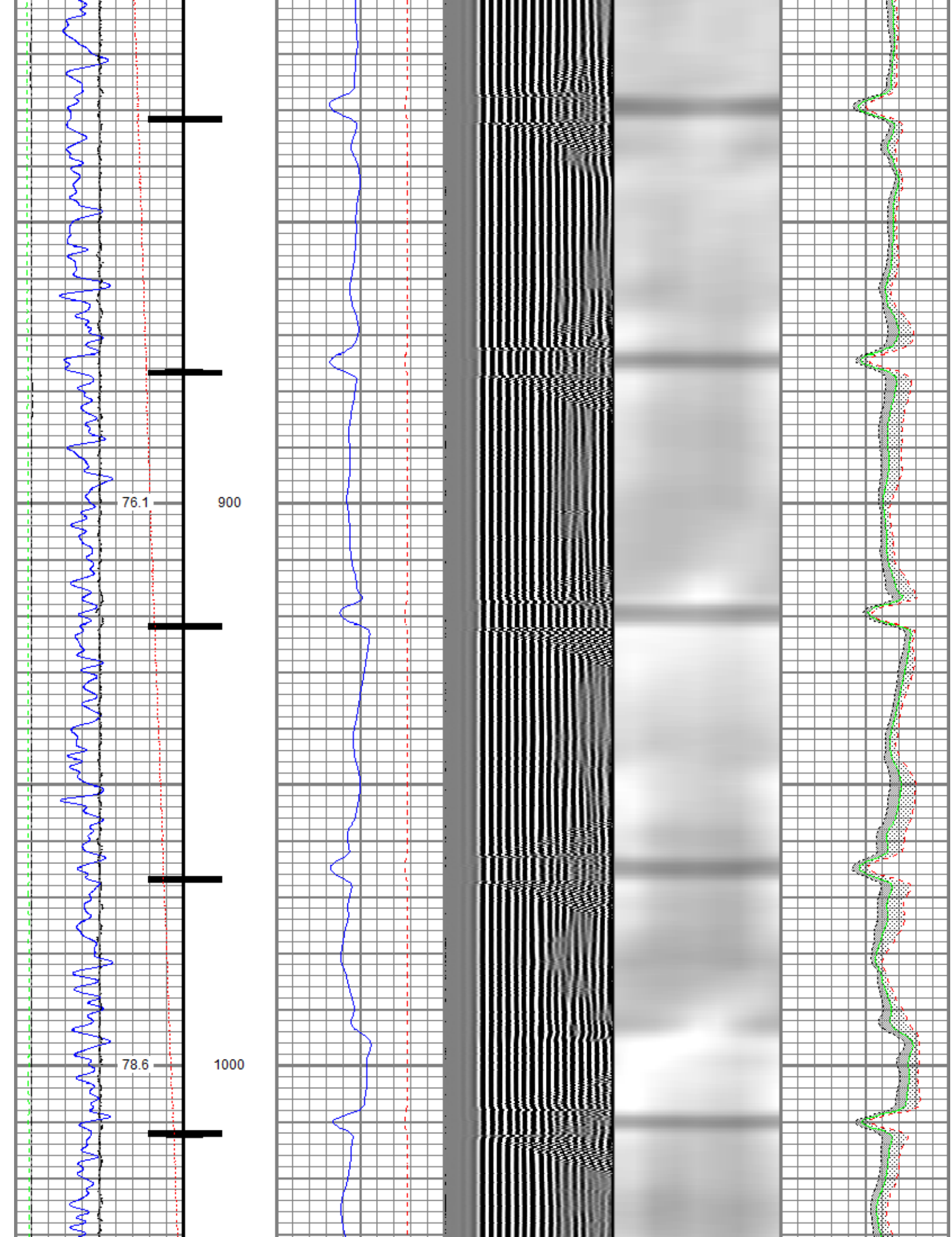
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator		0 (mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed		650 (usec) 150			0	100
-150 (ft/min) 150		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

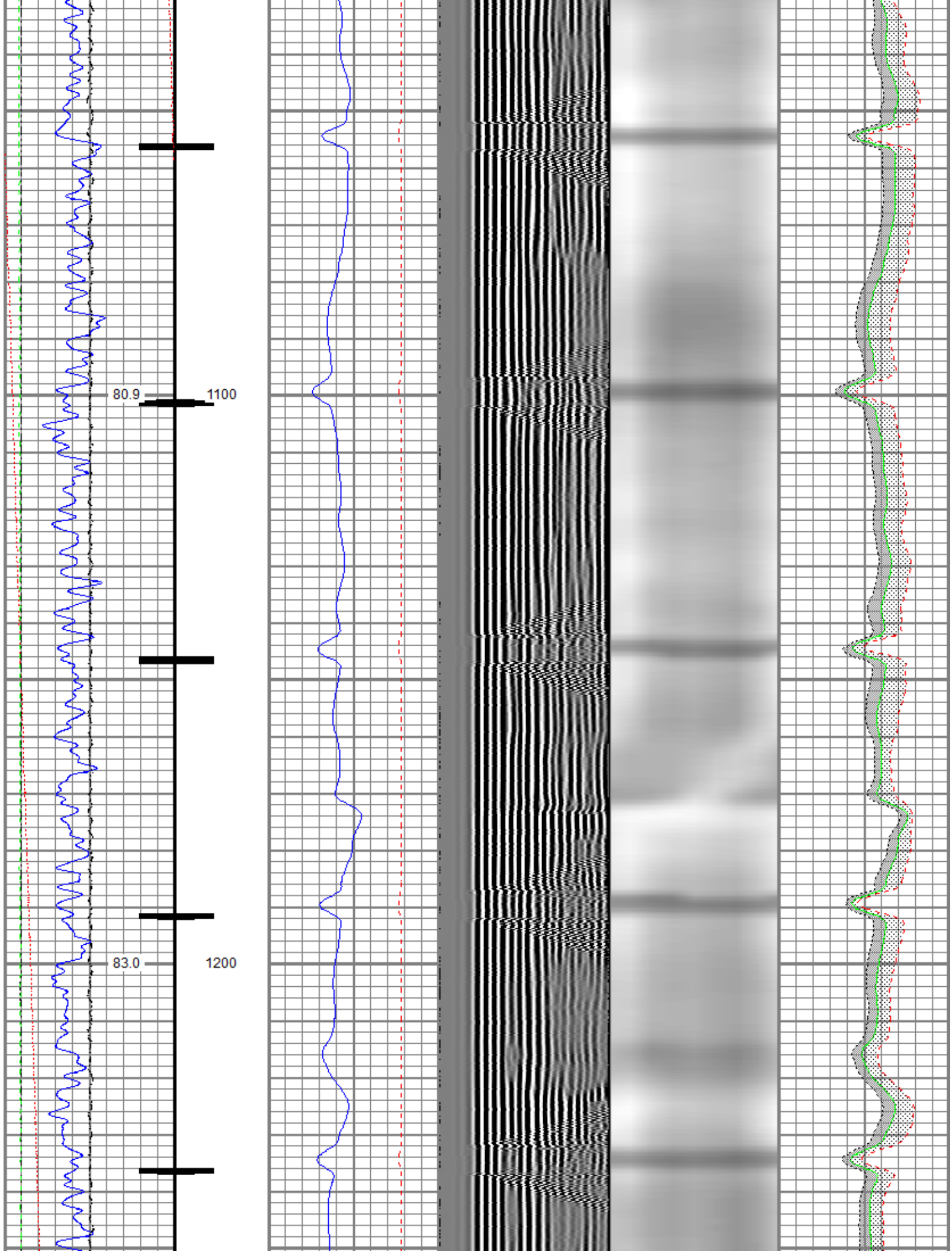


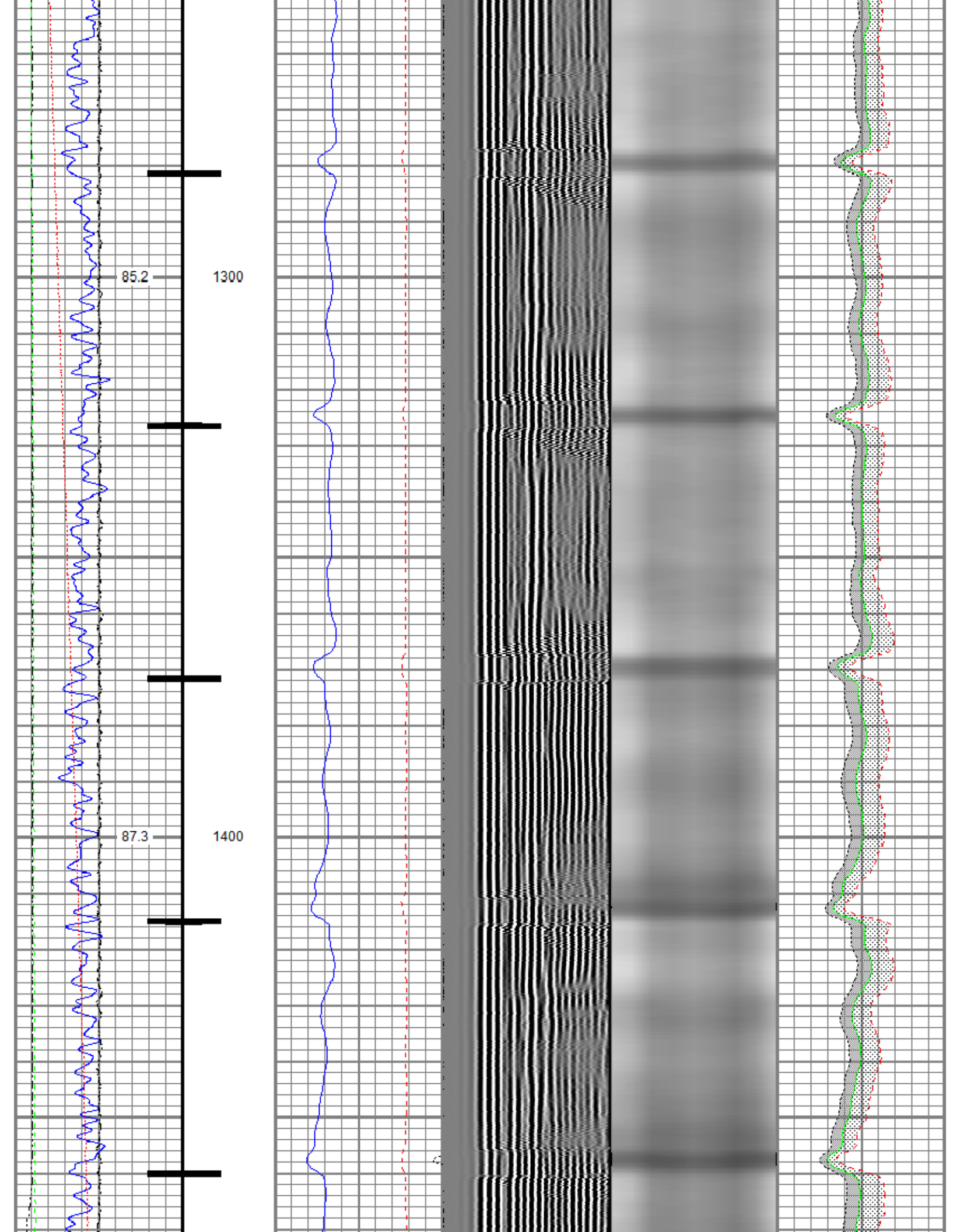


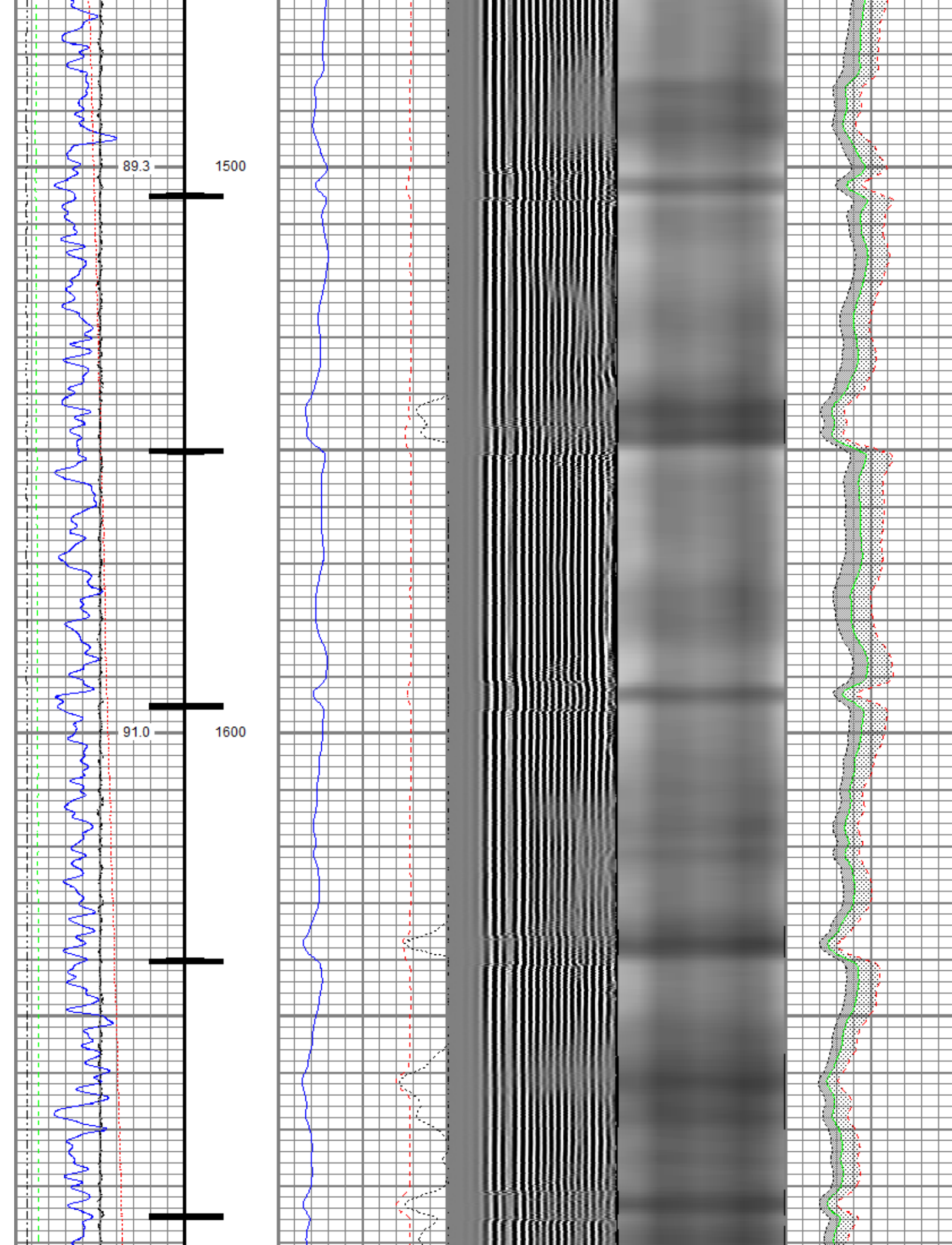


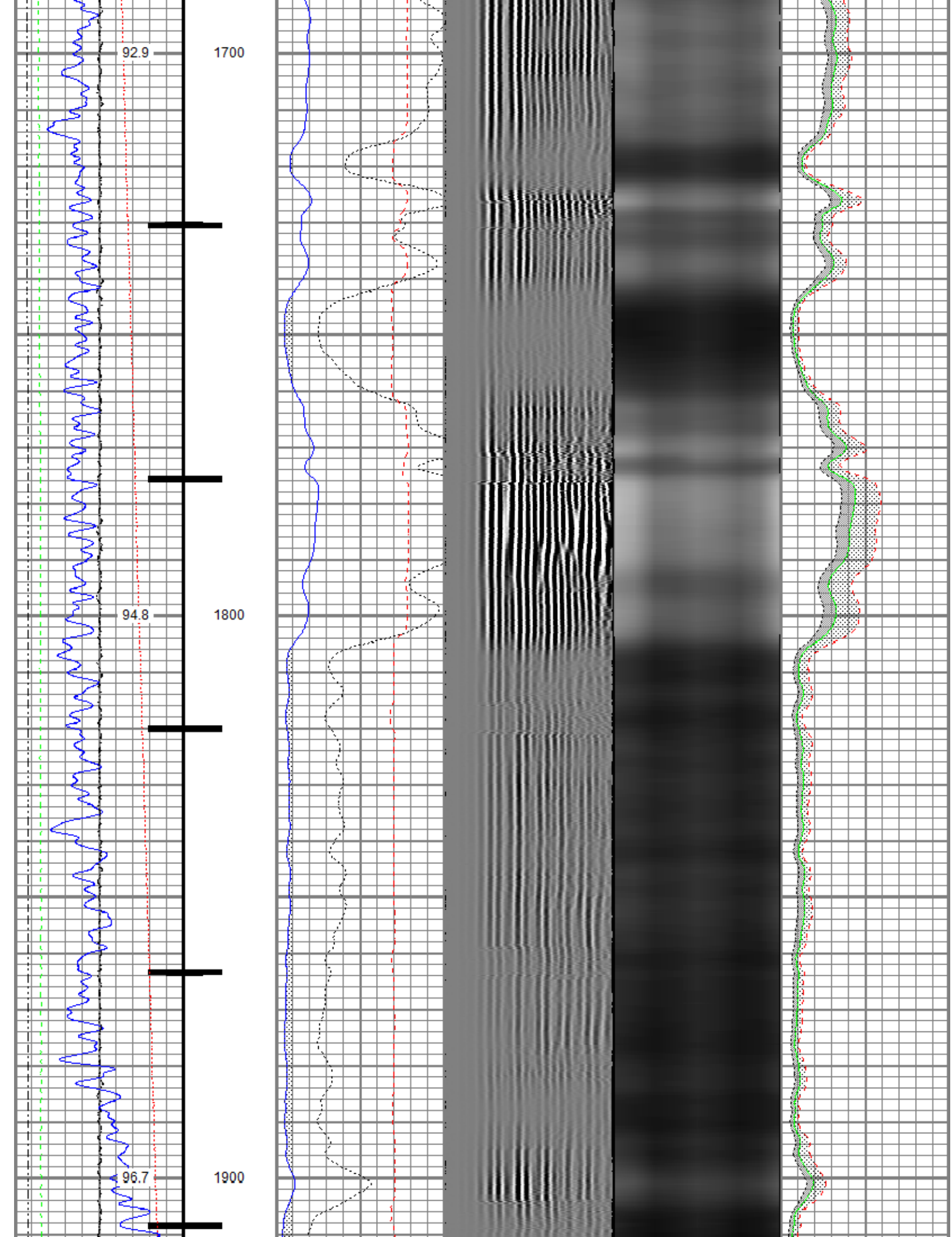


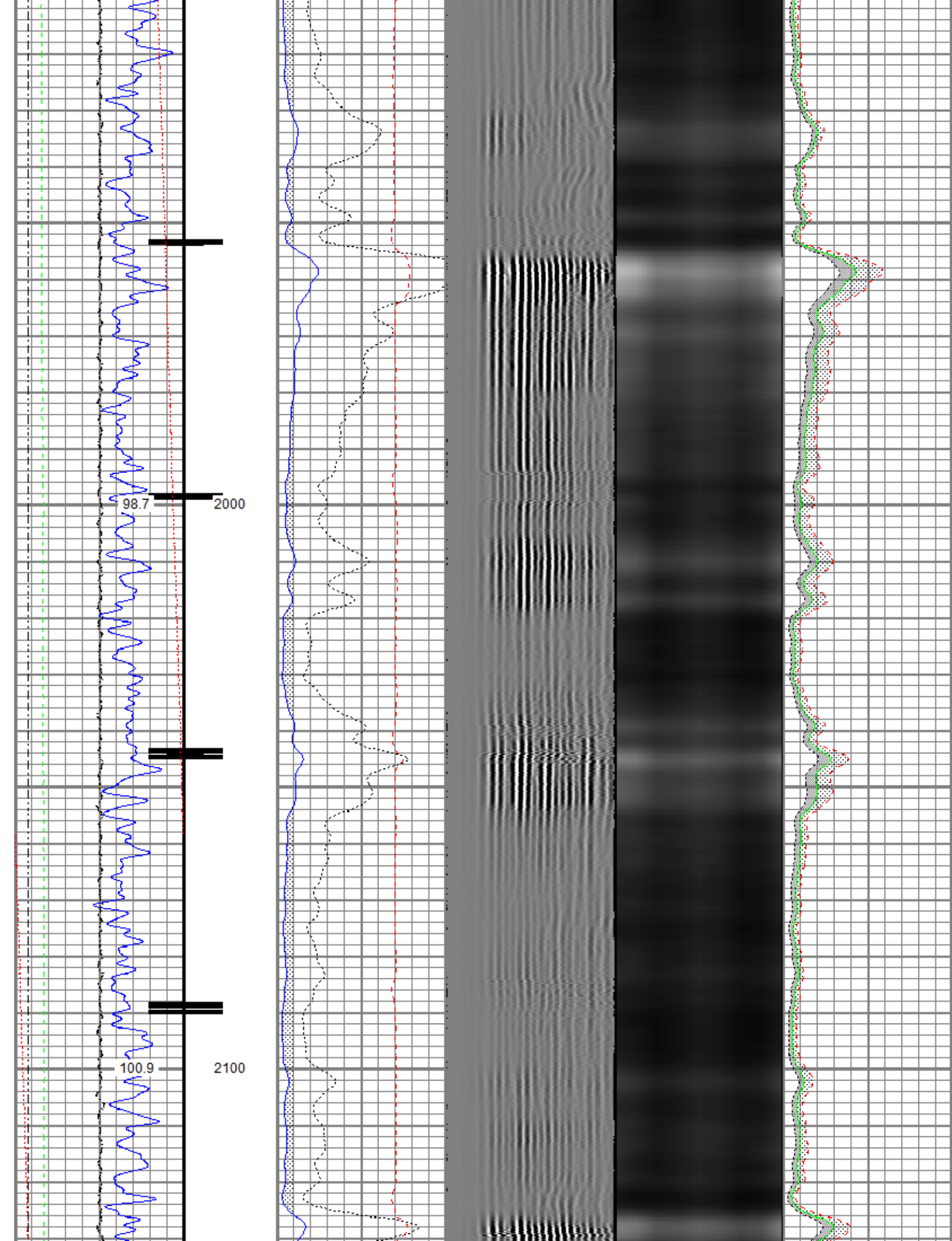


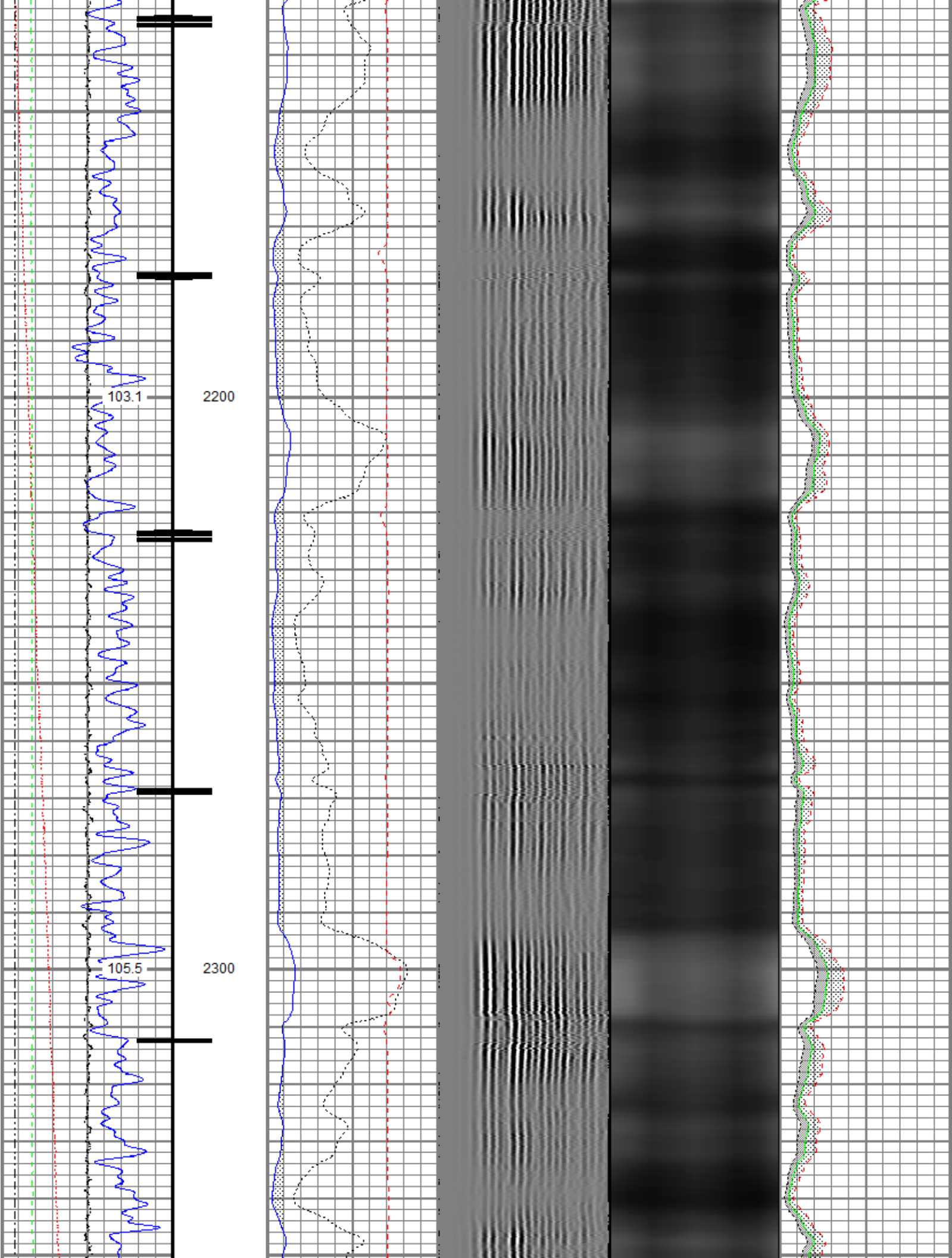


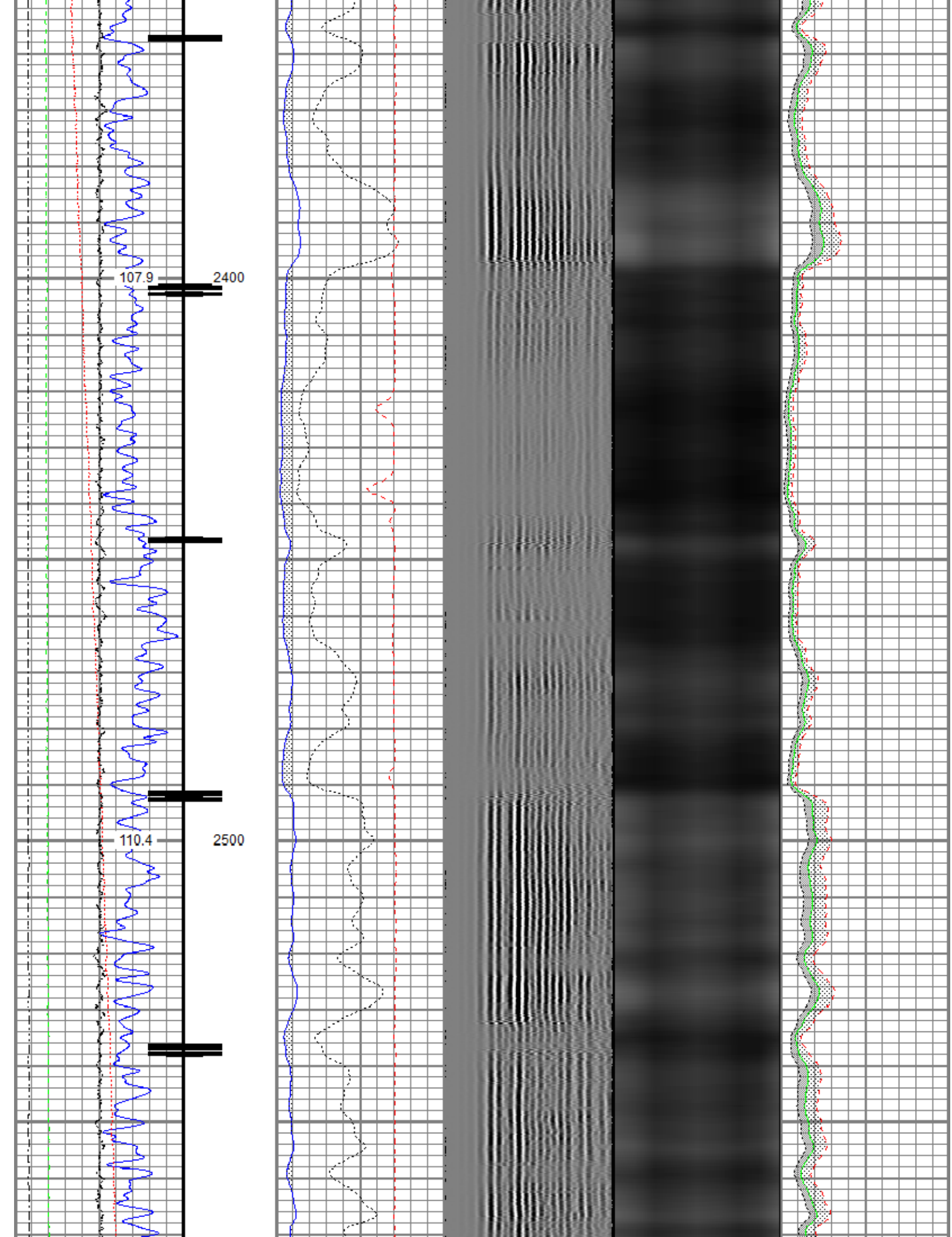


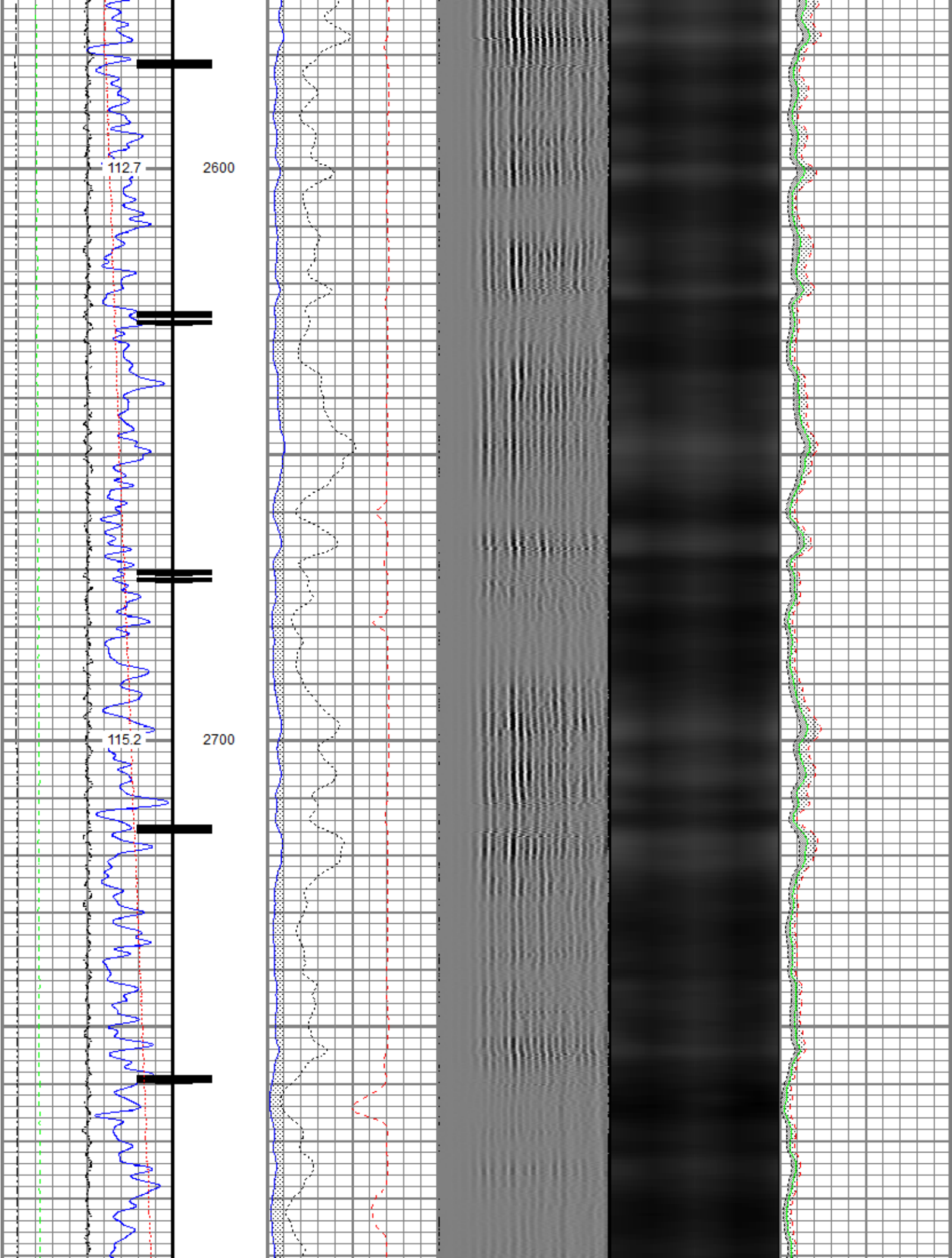


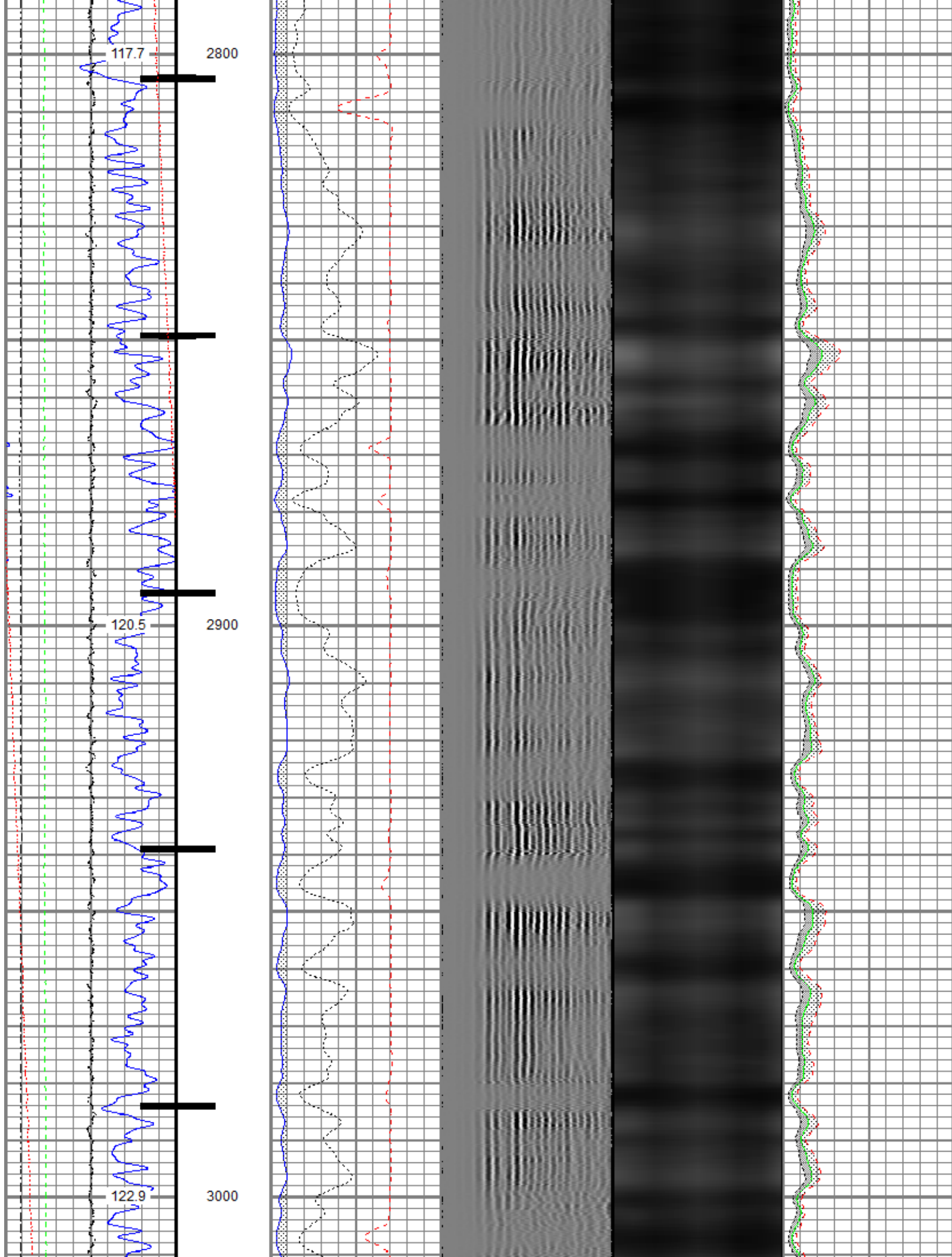


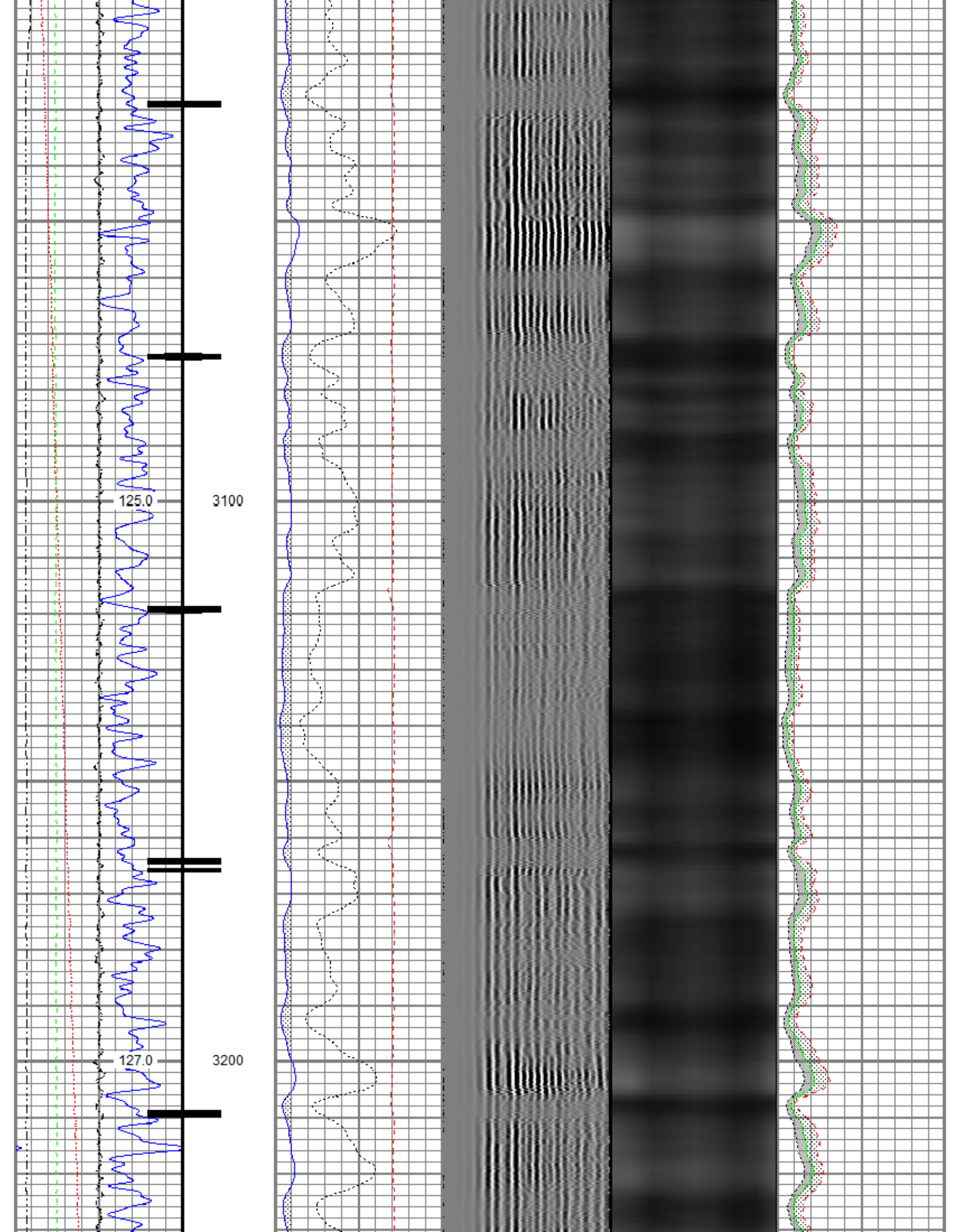


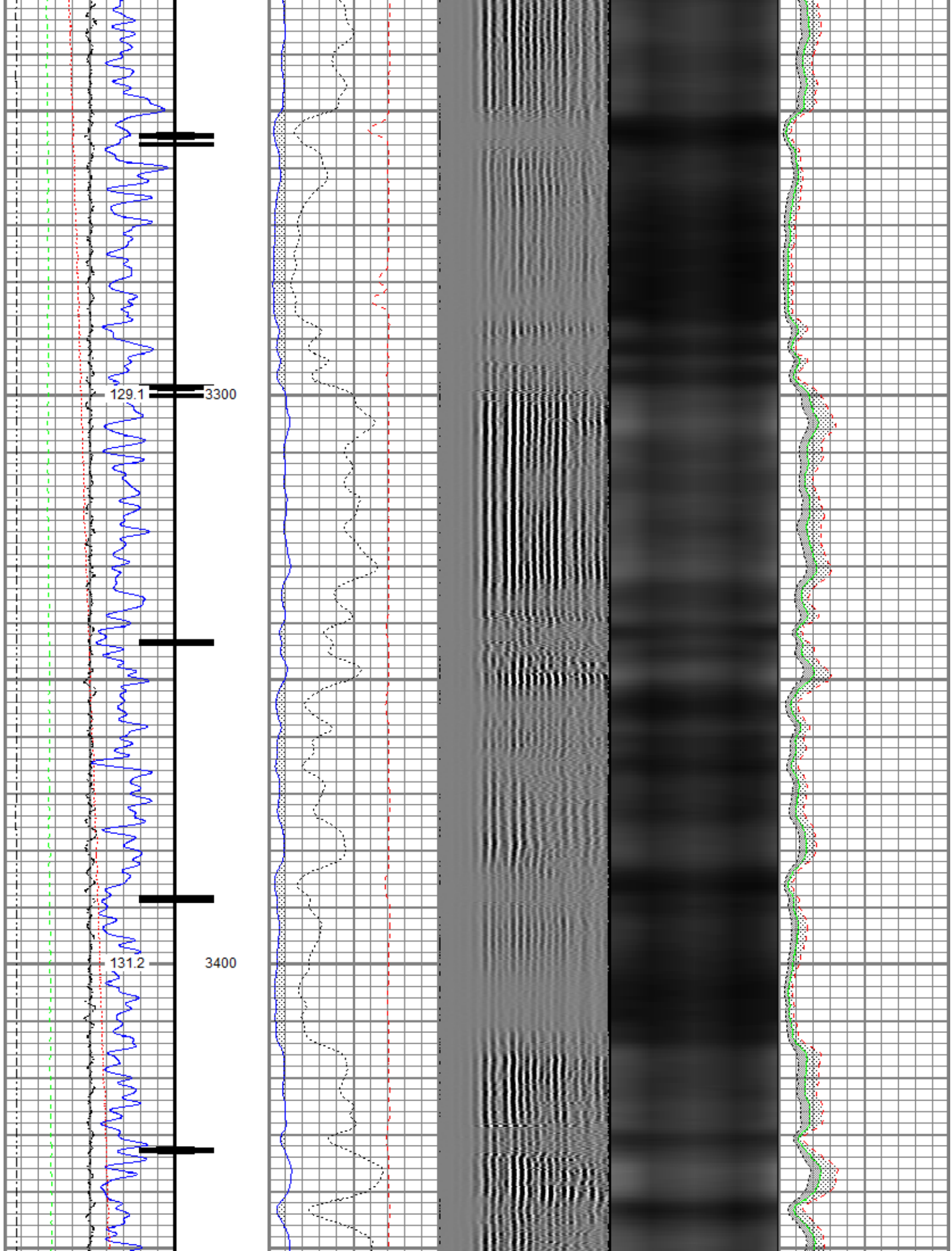


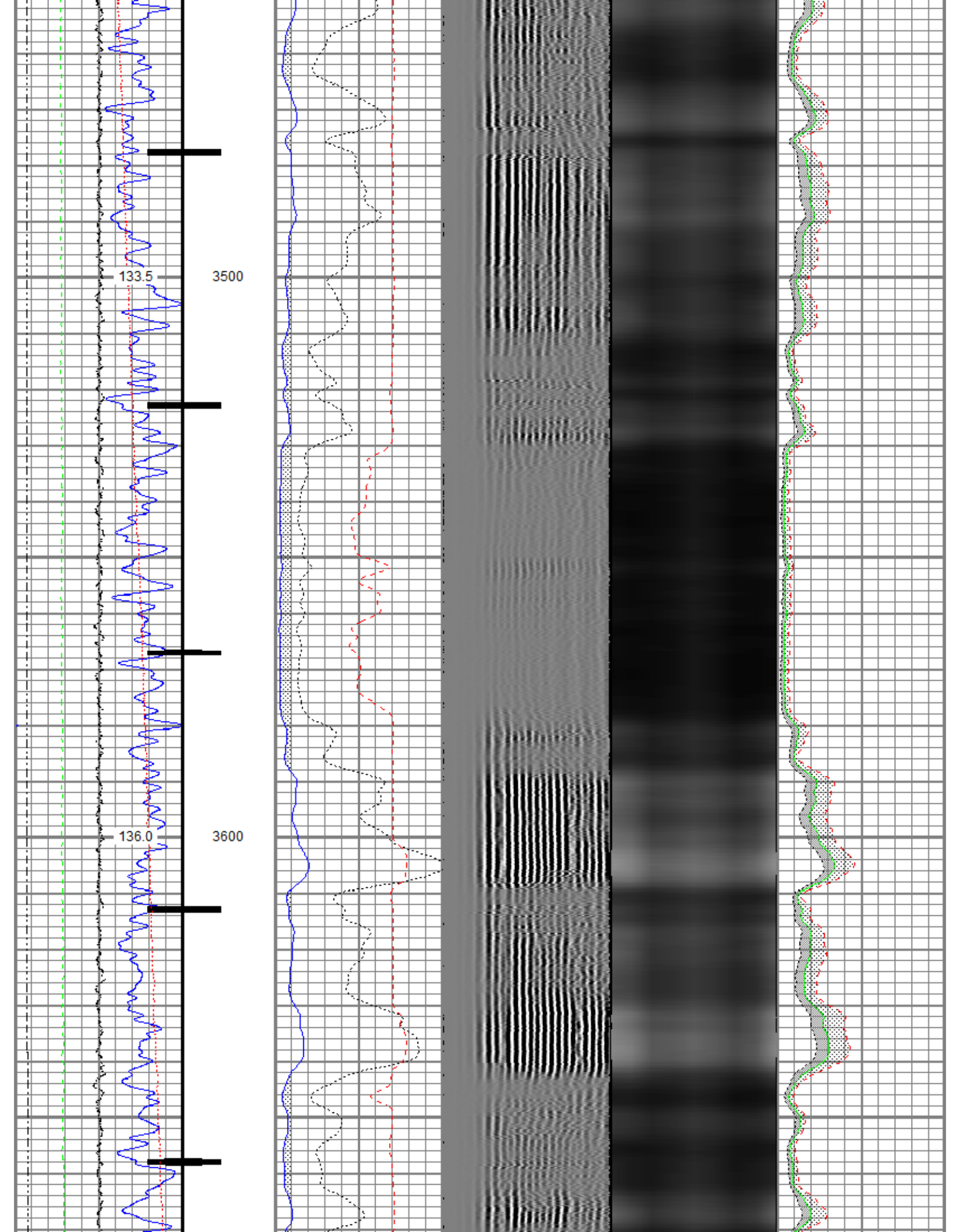


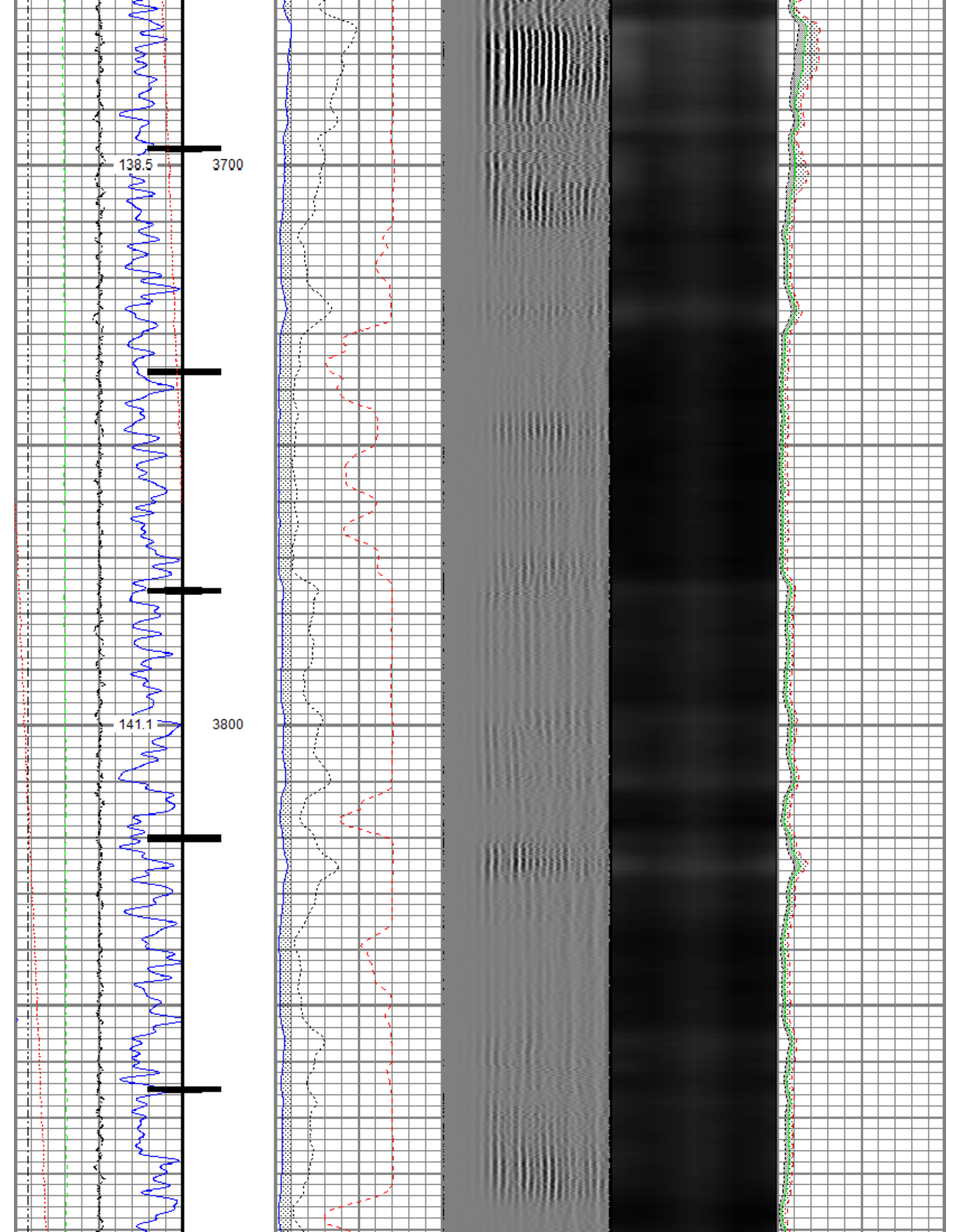


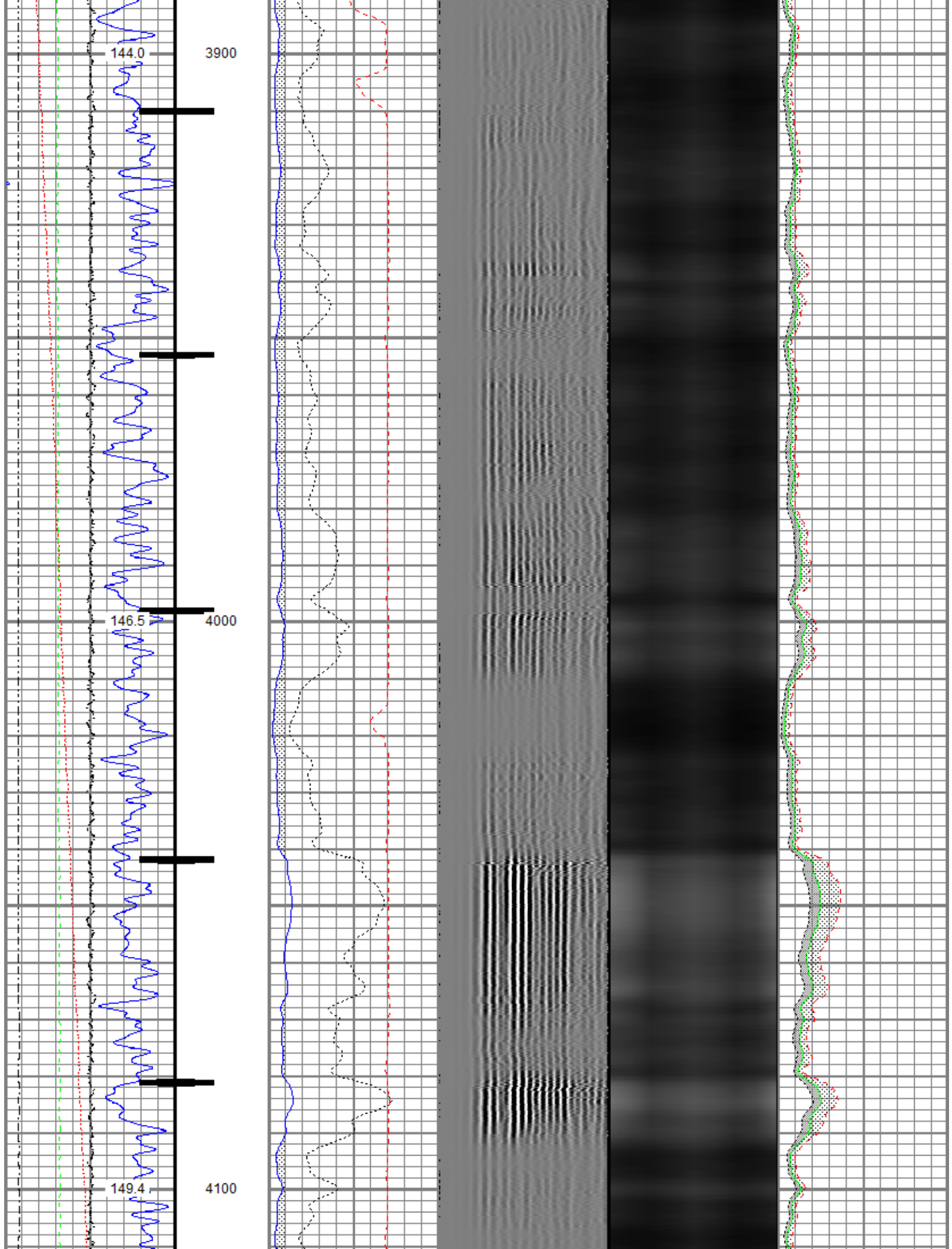


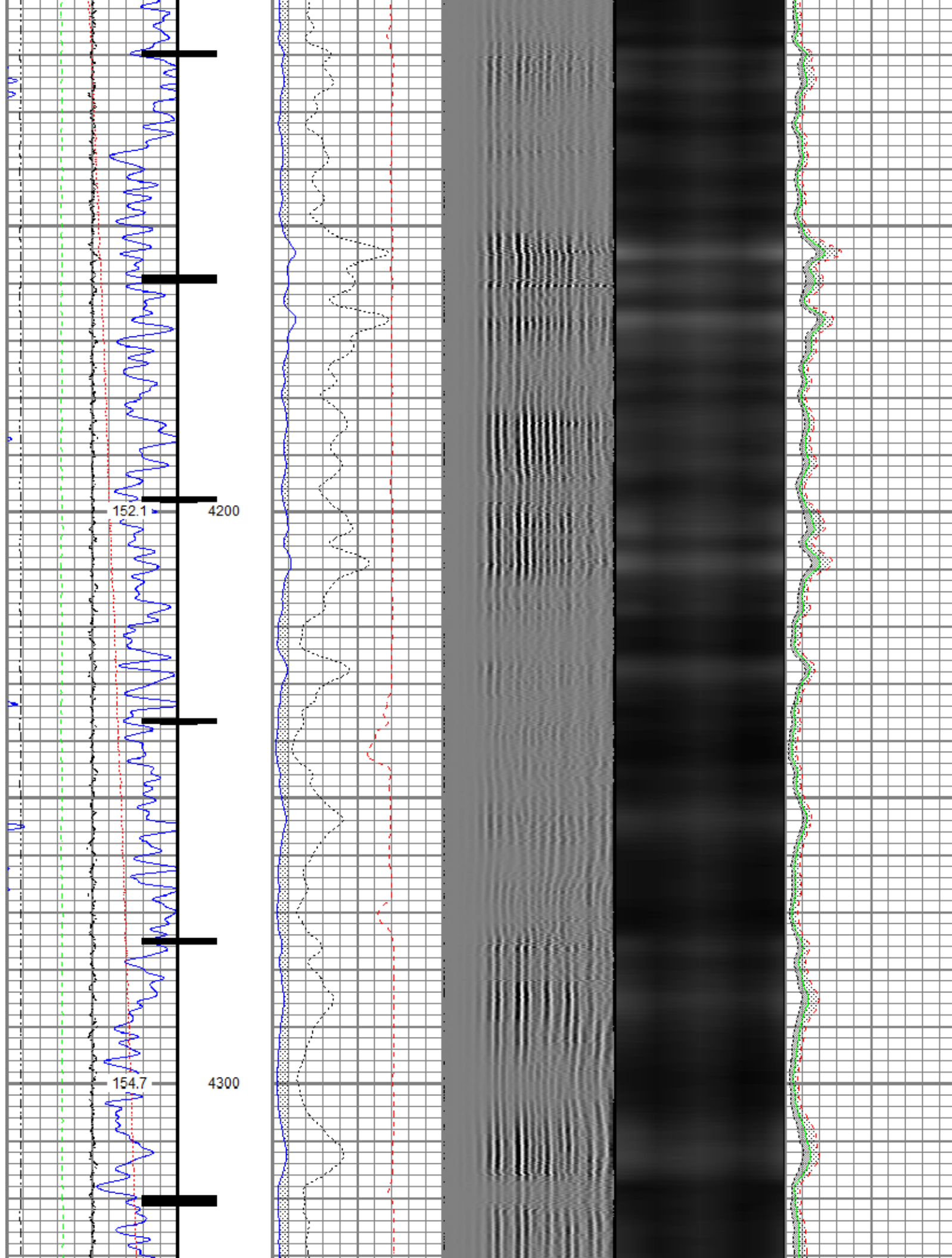


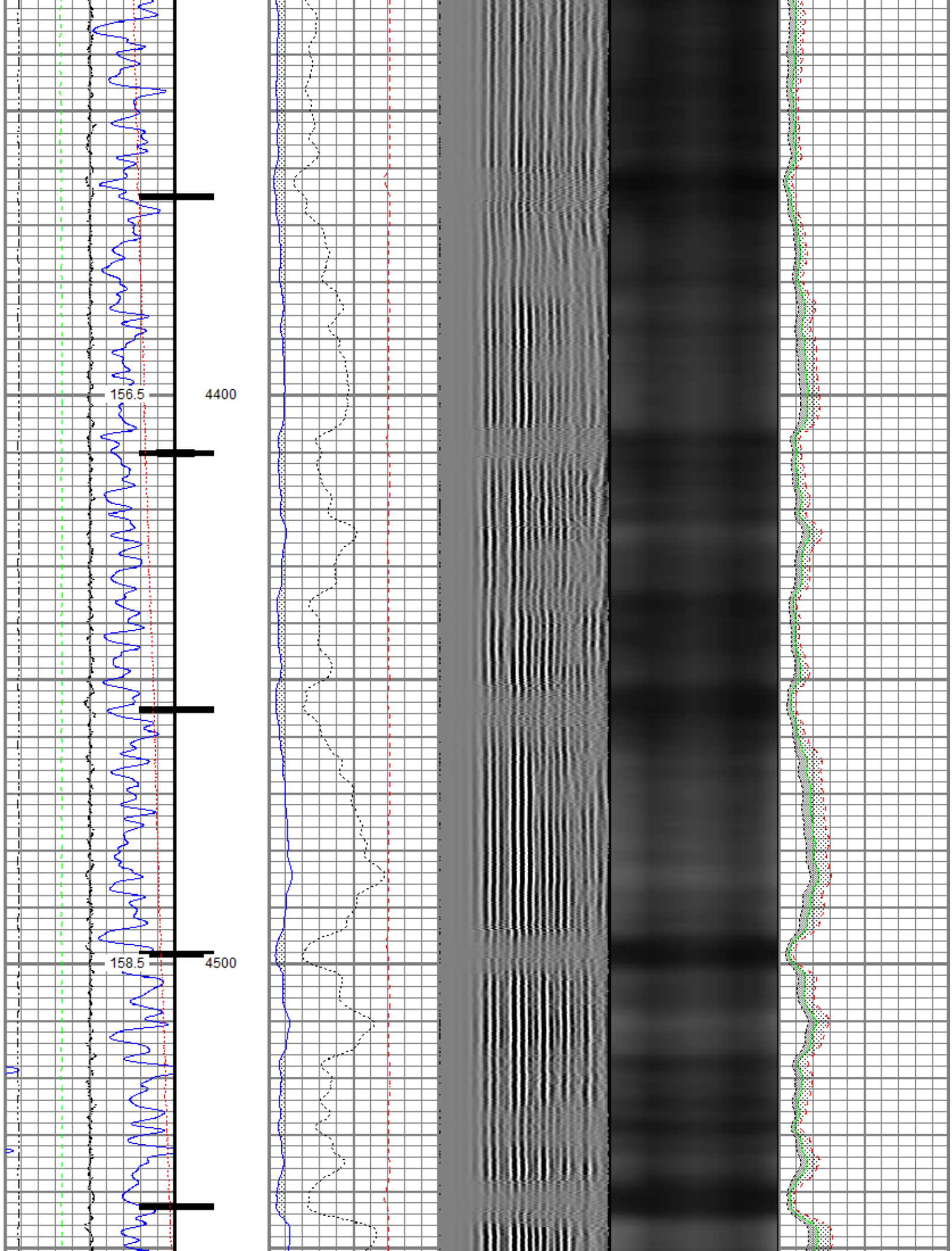


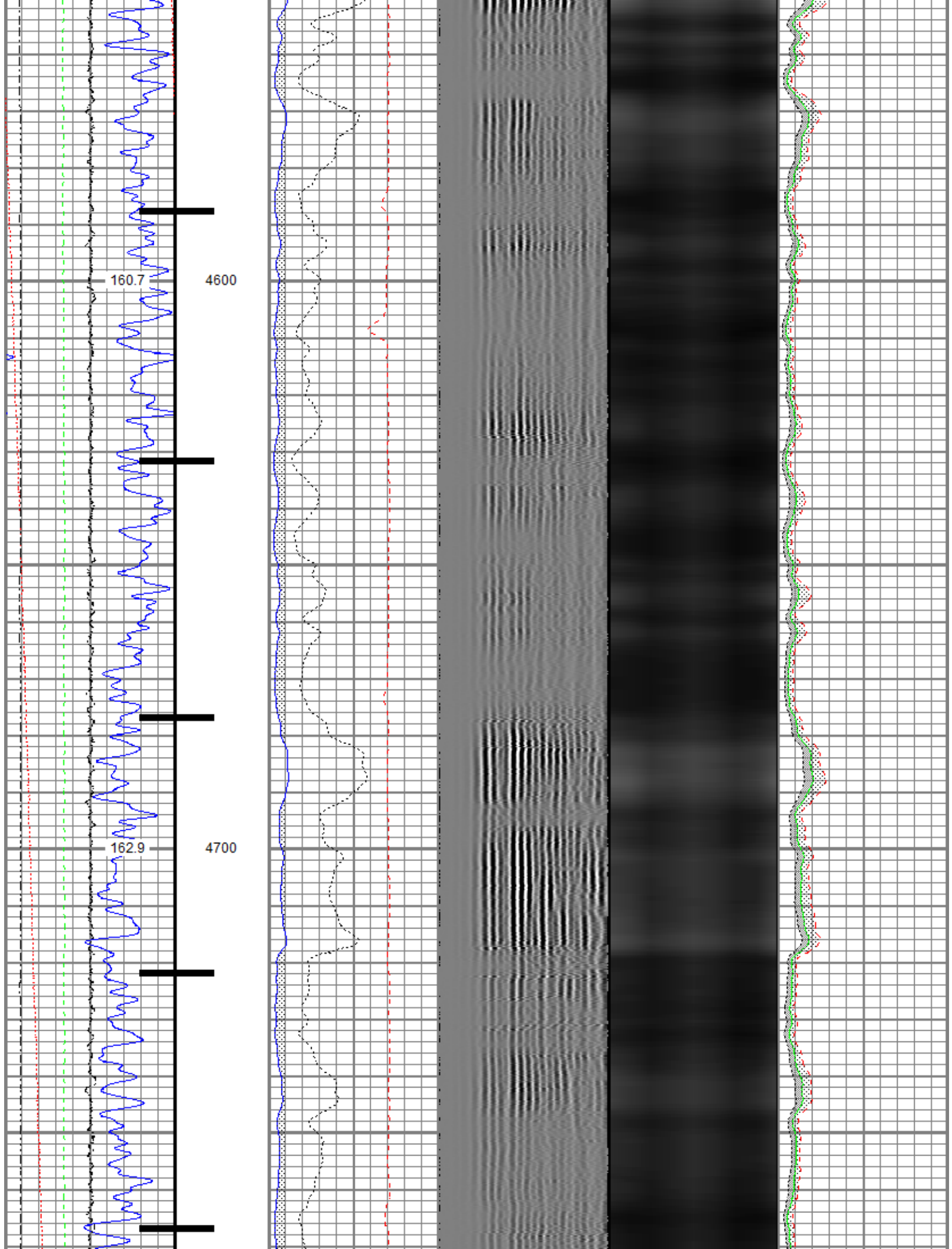


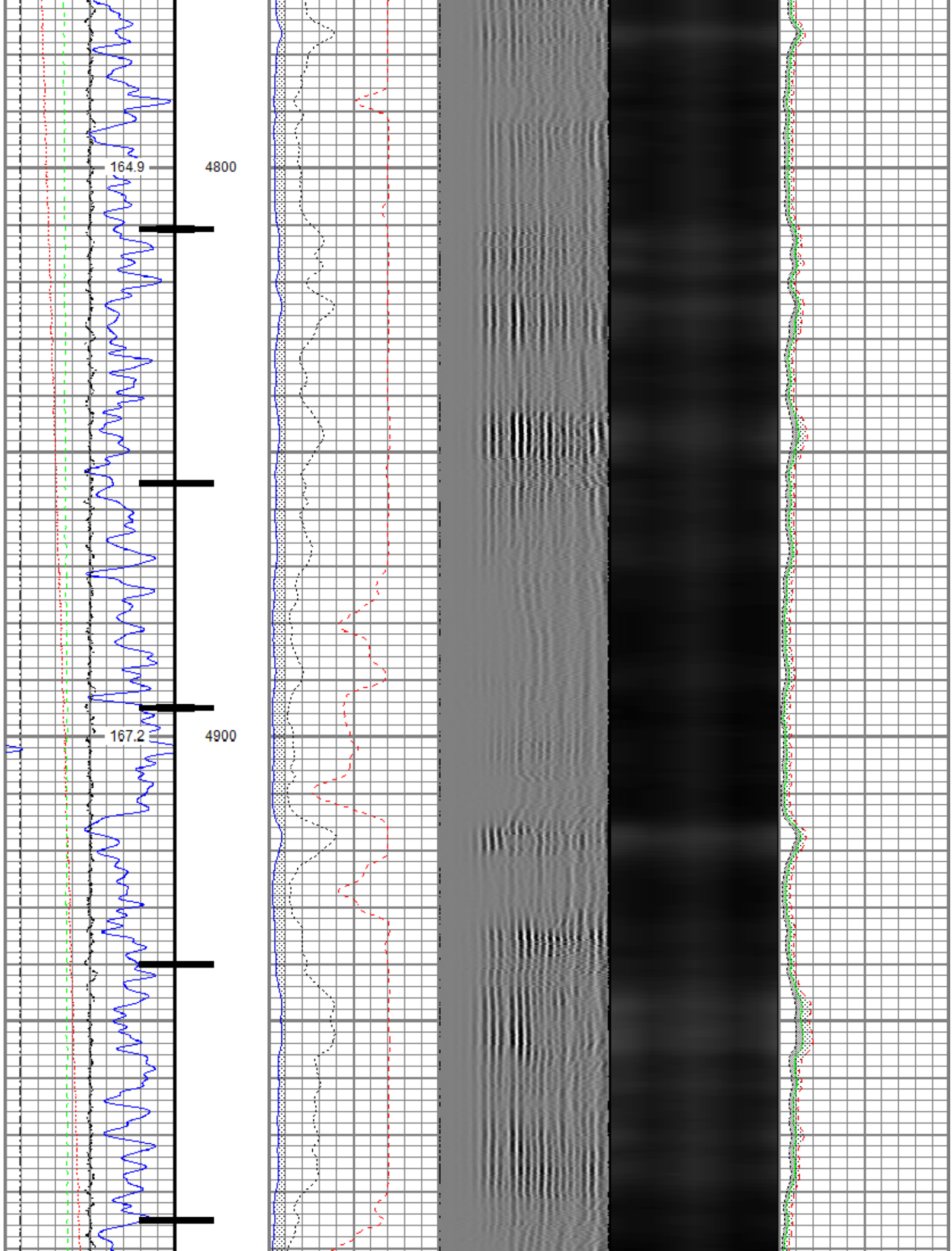


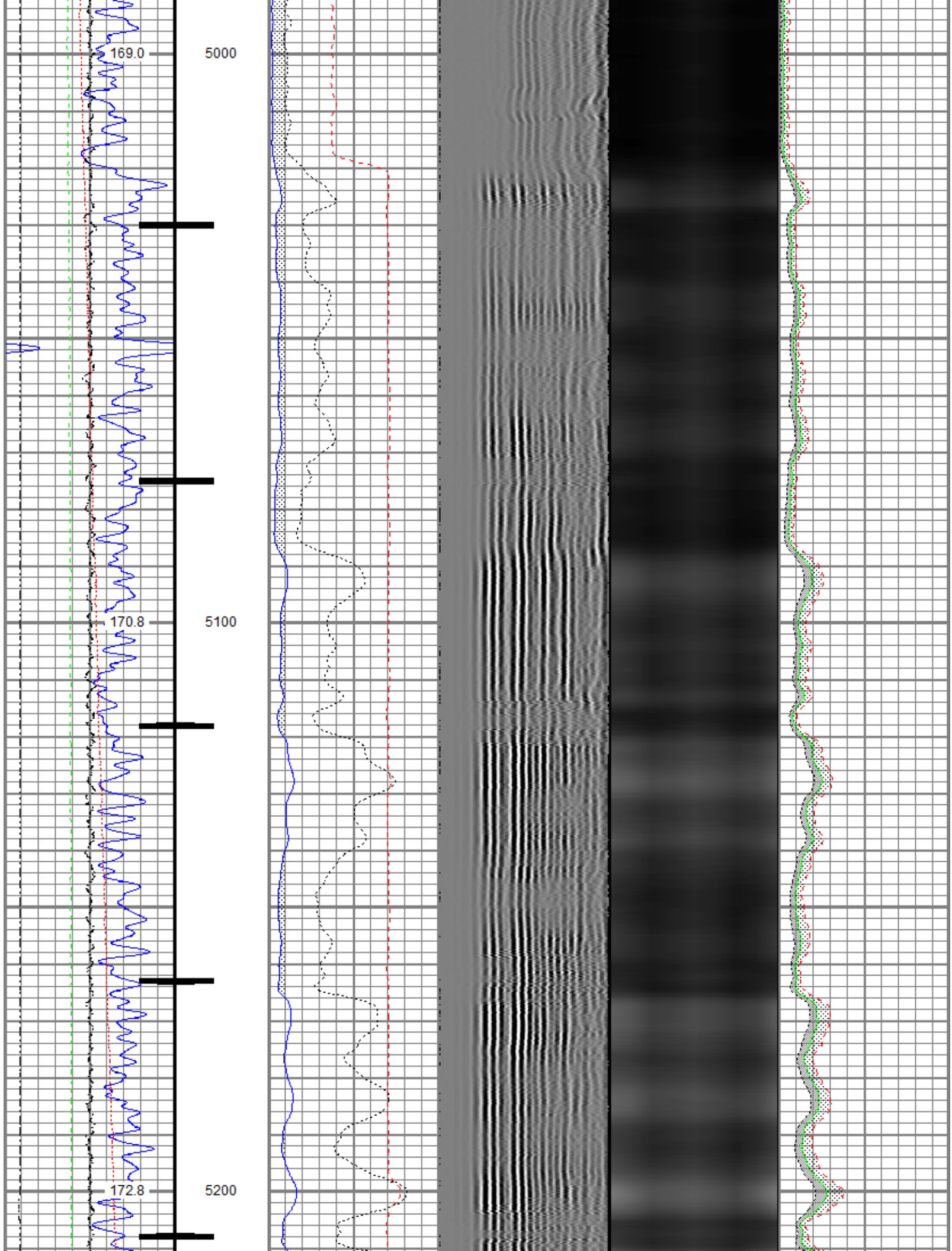


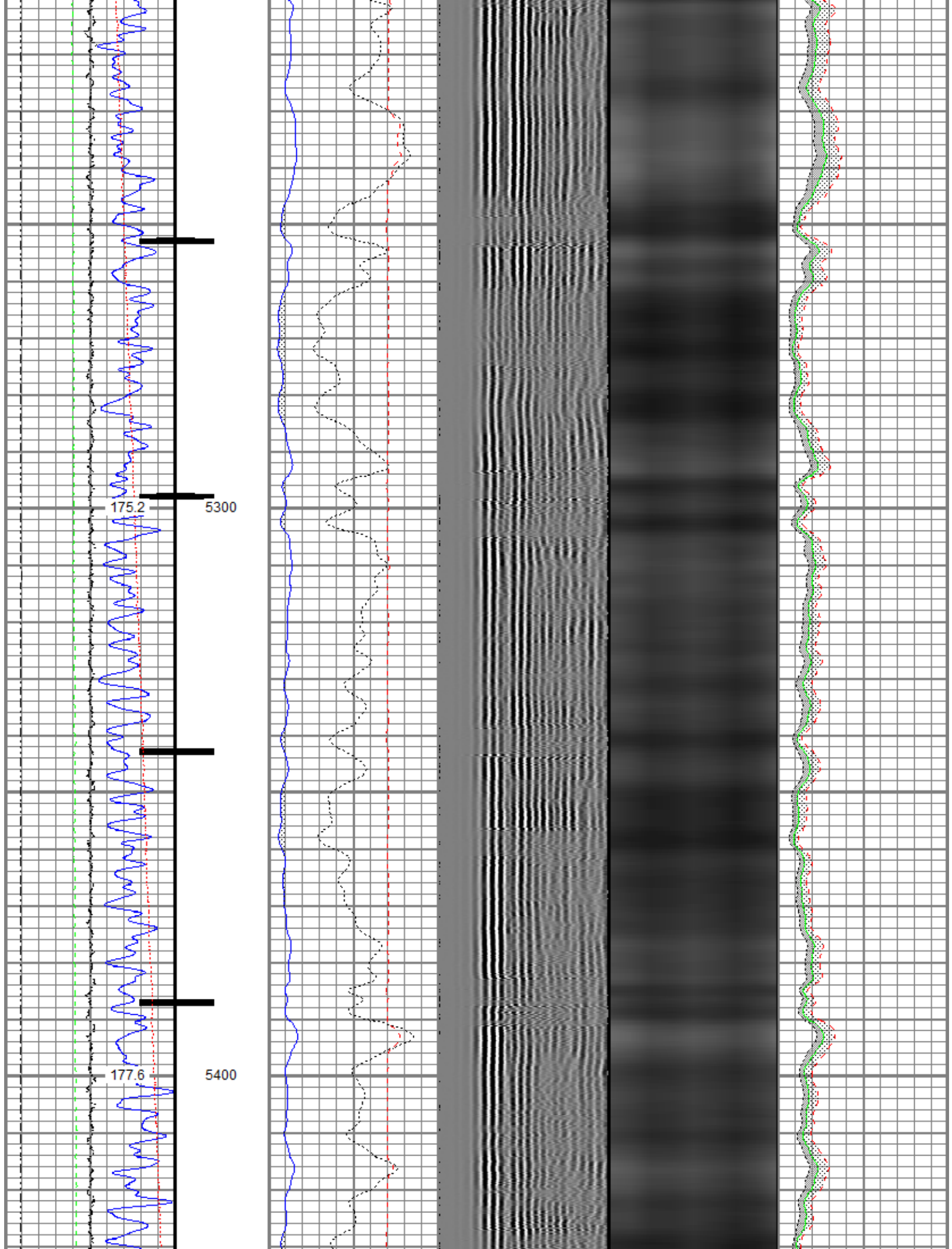


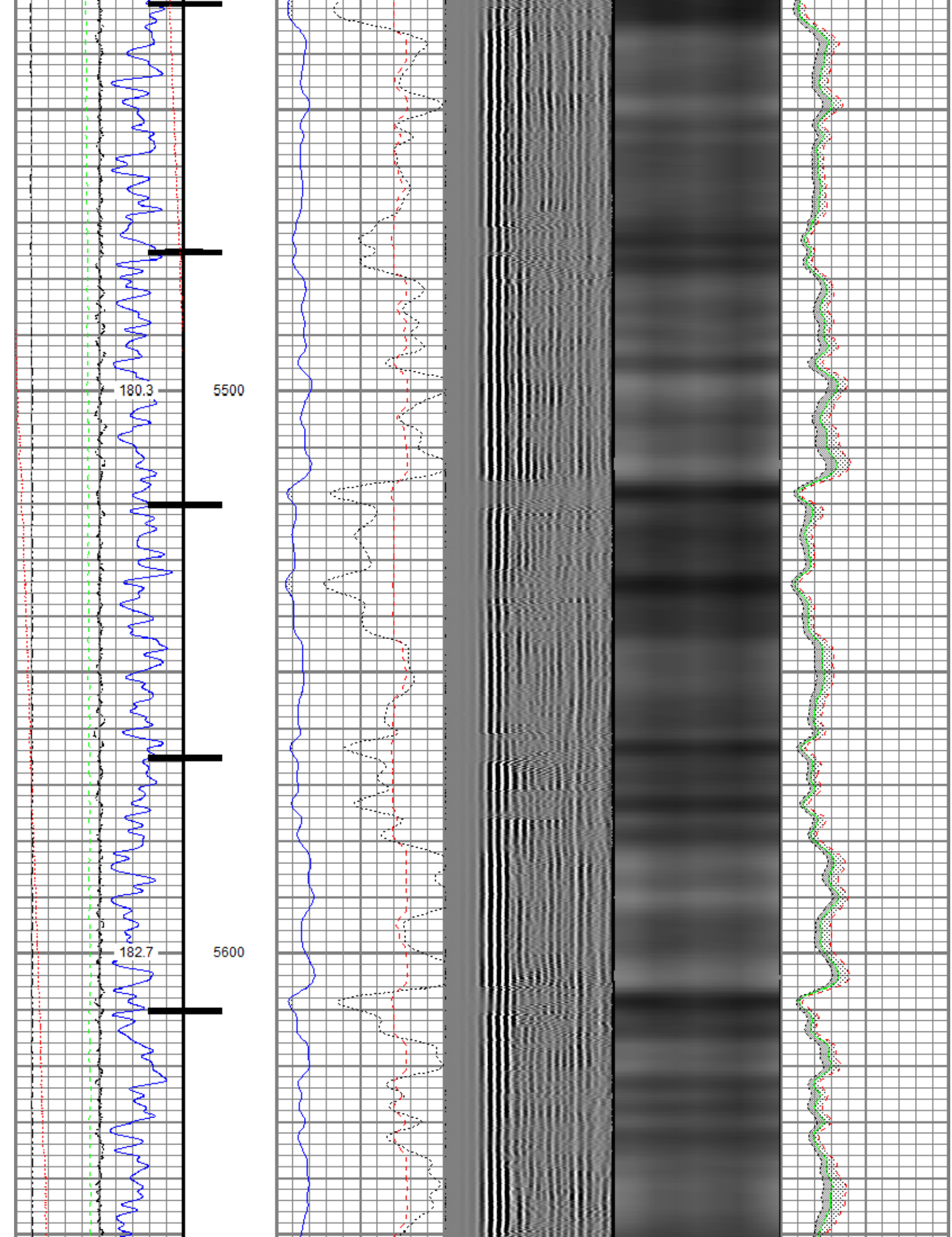


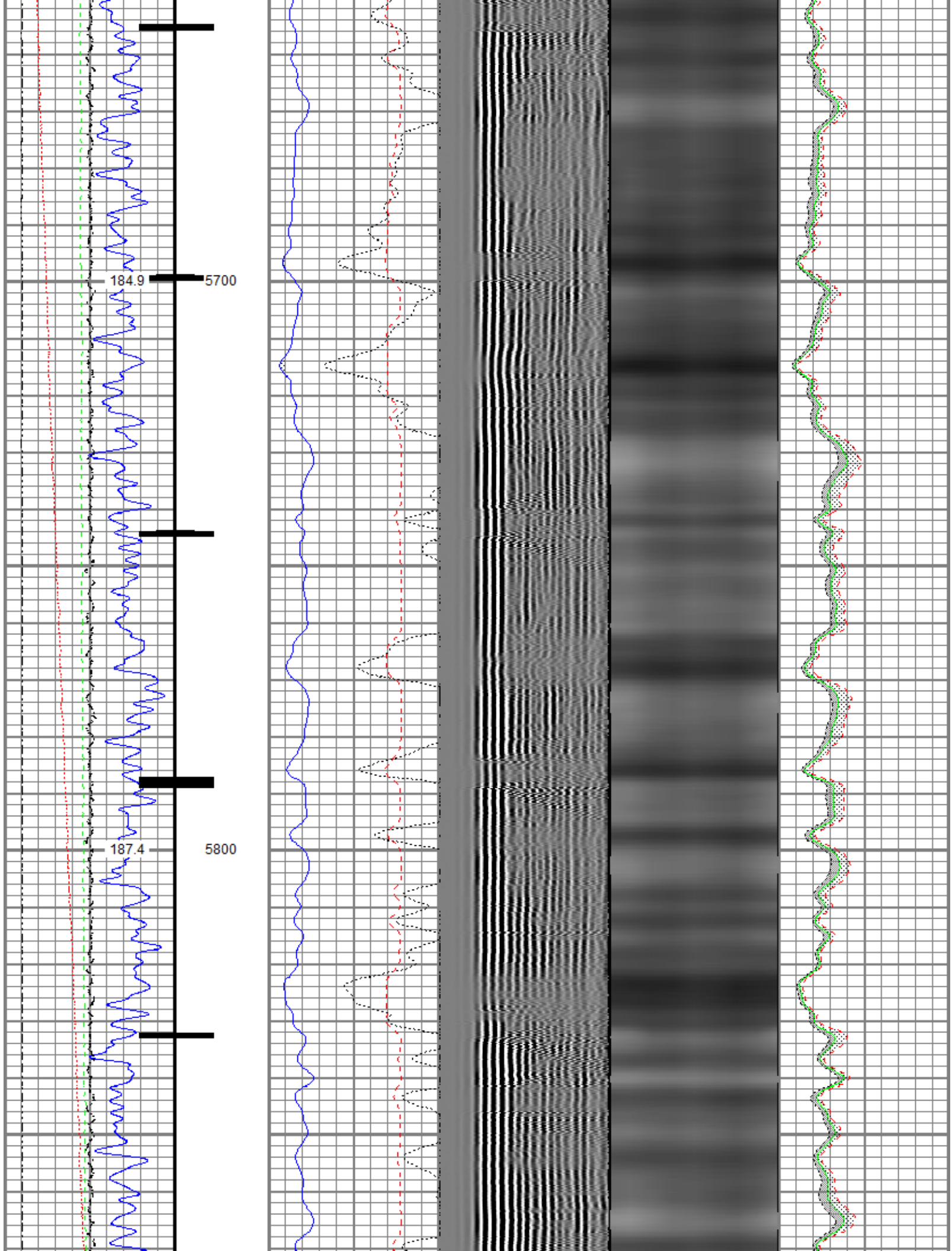


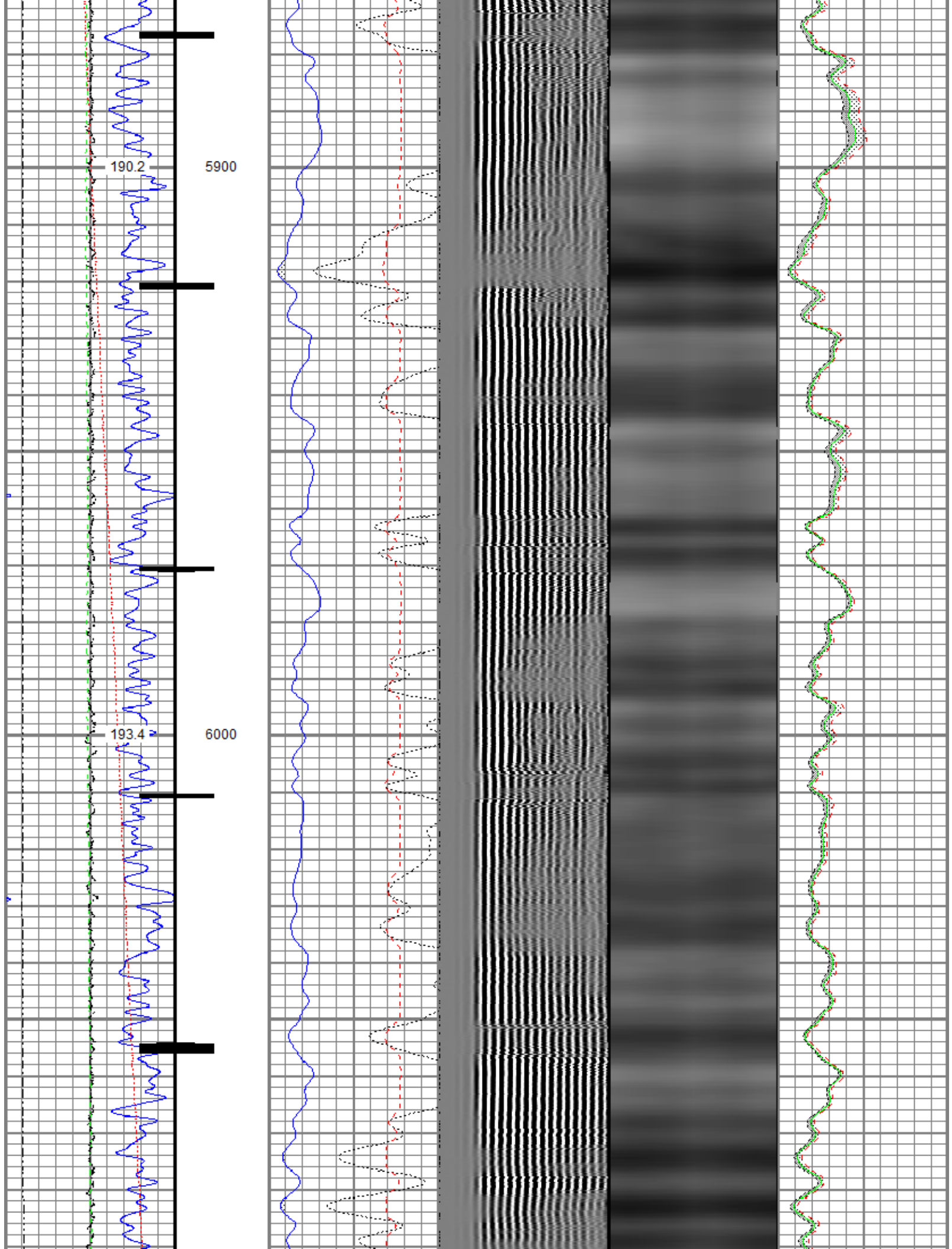


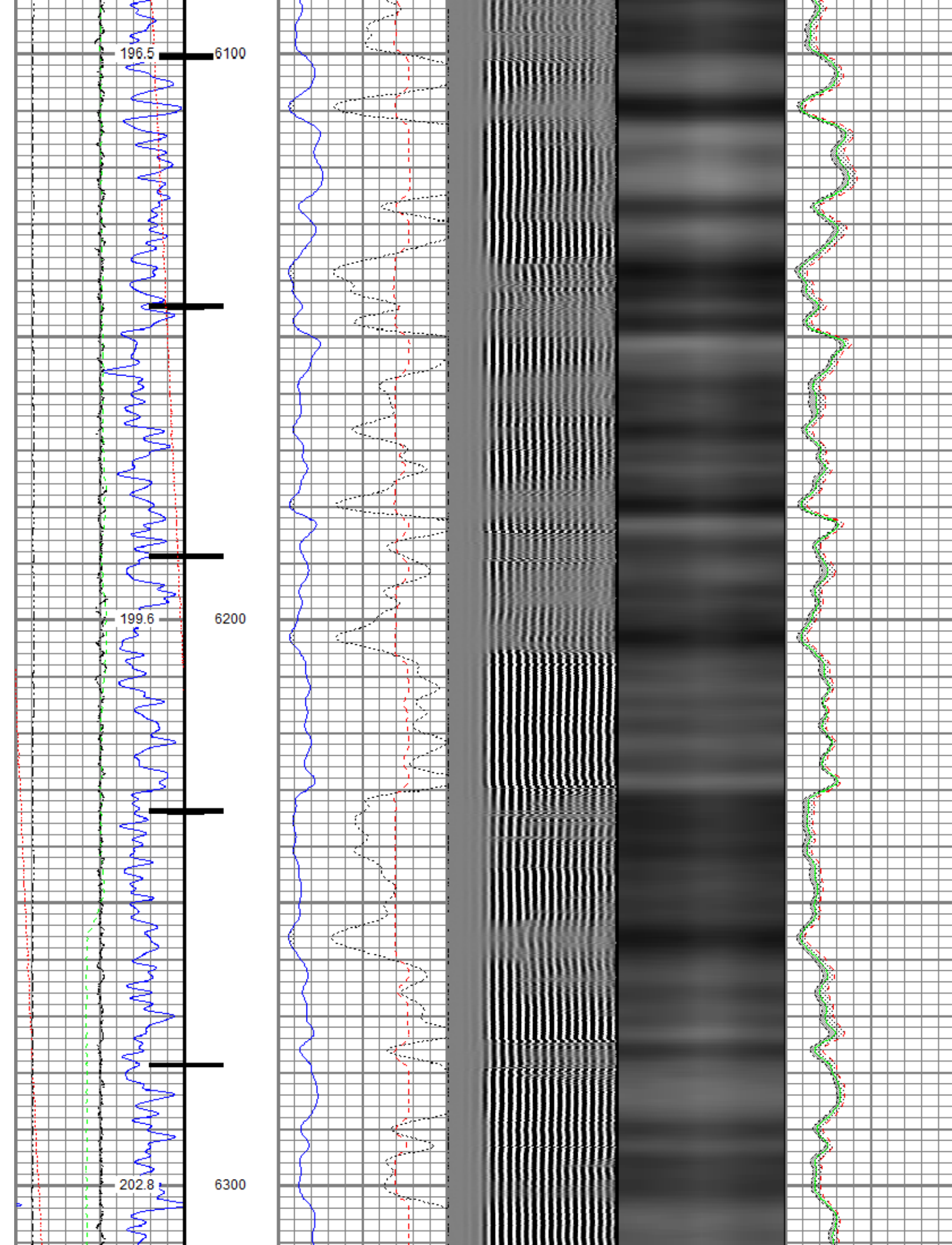


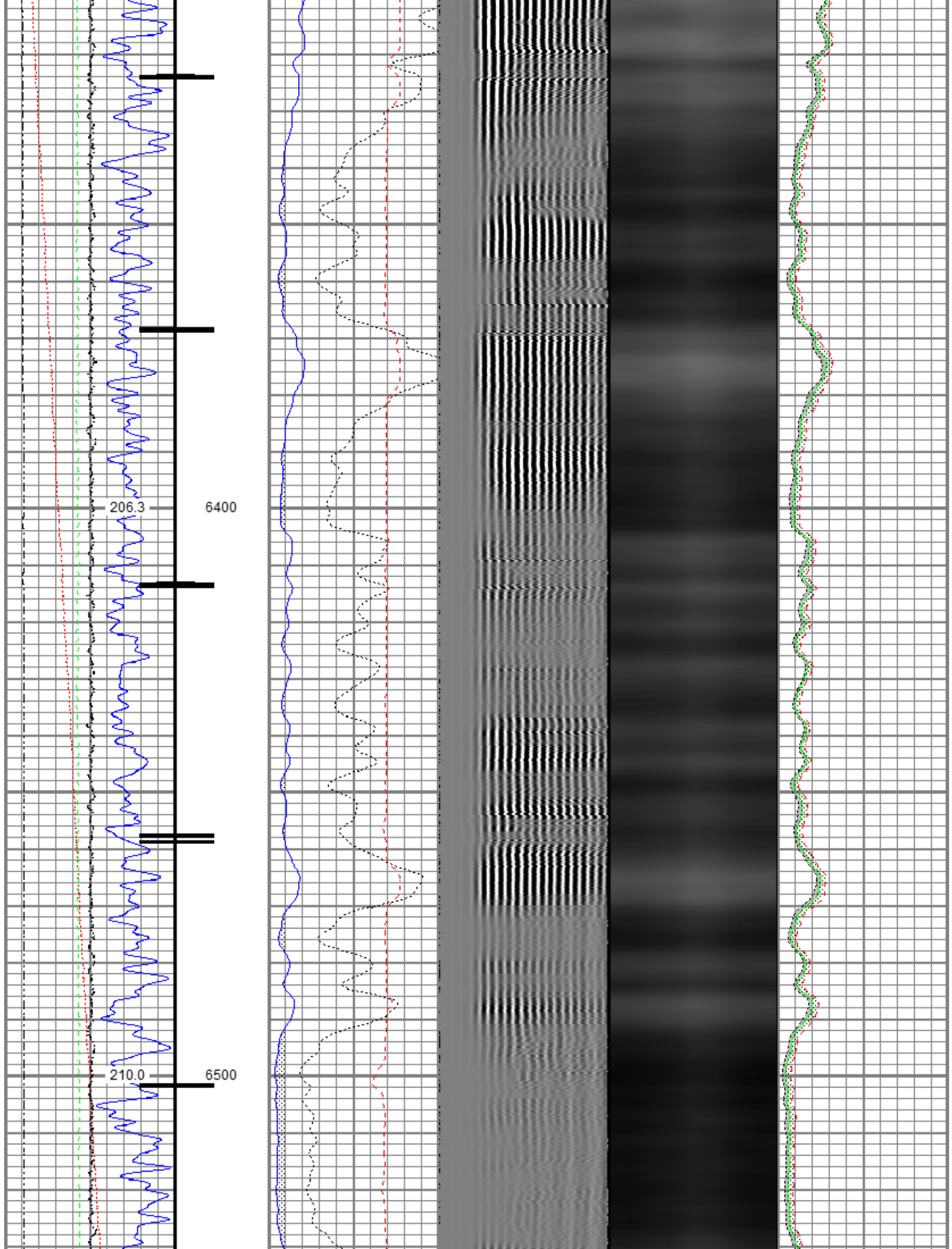


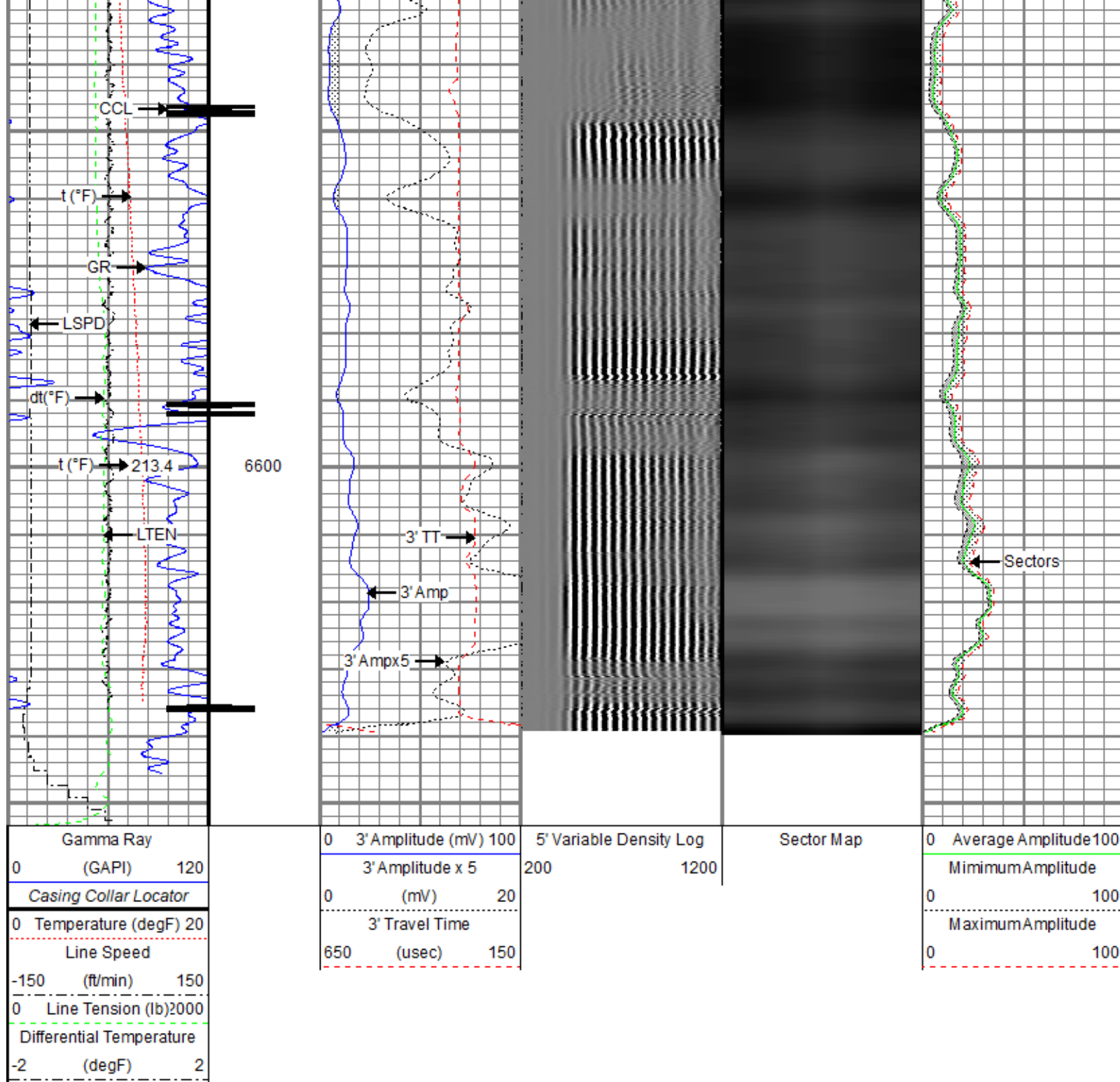








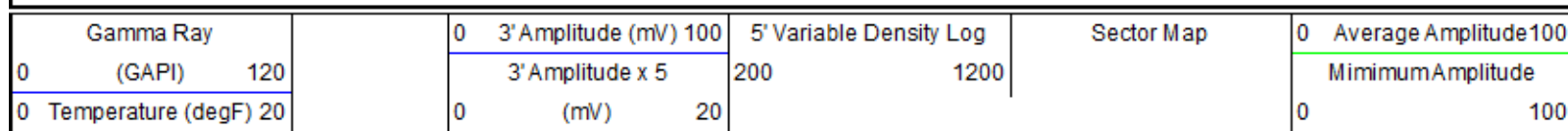




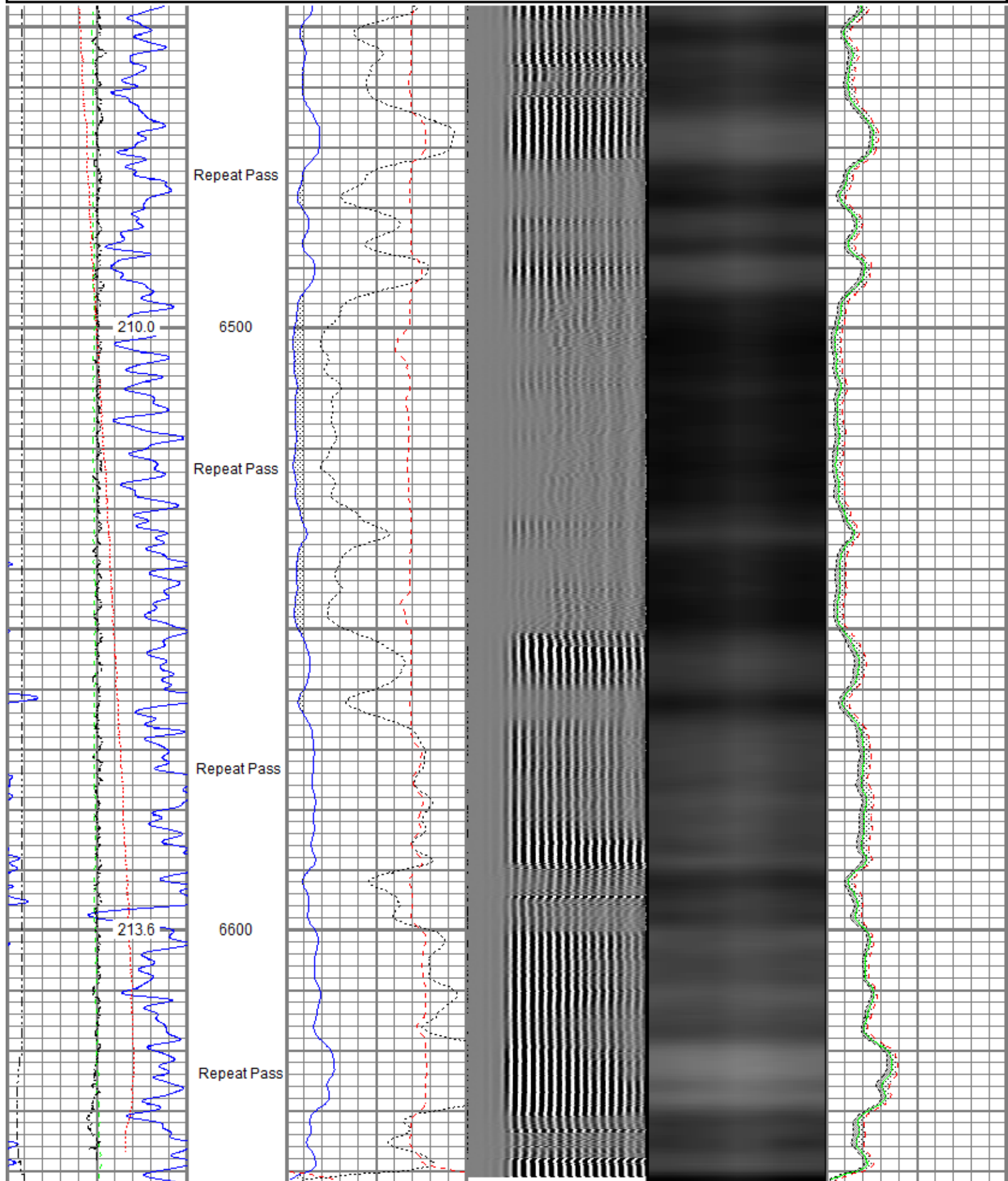
Repeat Pass




Recorded with 2800 PSI Surface Induced Pressure

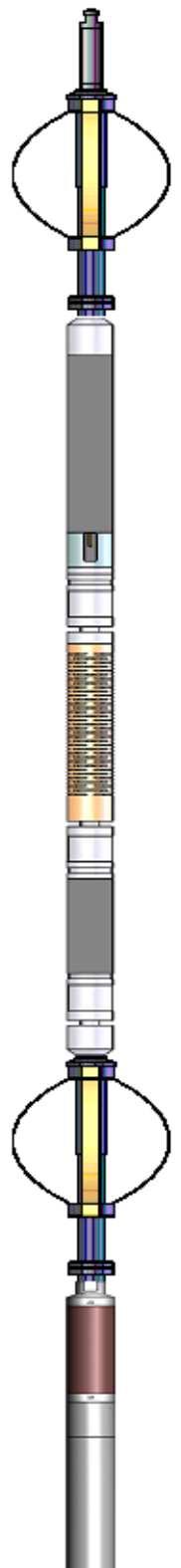
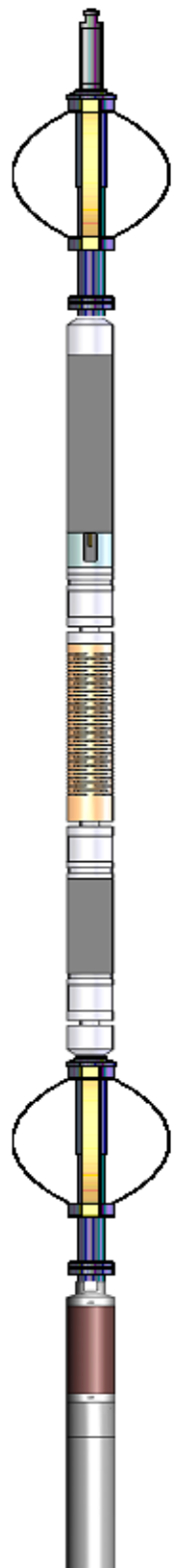
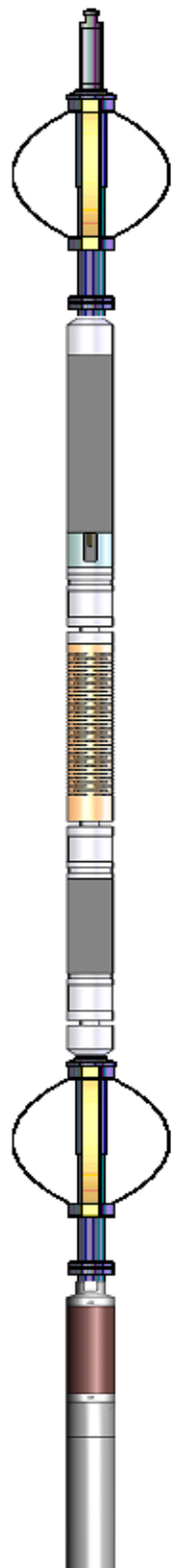
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 Presentation Format: ros_radial
 Dataset Creation: Fri Aug 17 10:05:48 2018
 Charted by: Depth in Feet scaled 1:240

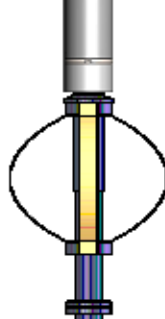


Line Speed			3' Travel Time			Maximum Amplitude		
-150	(ft/min)	150	650	(usec)	150	0		100
0 Line Tension (lb) 2000								
Differential Temperature								
-2	(degF)	2						



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

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			
			Probe Radii-2750 RBT (FW1308-089)	9.39	2.75	105.00
			Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			
			Probe GR-CCL-2750 6PB (101001)	4.80	2.75	55.00
			Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT			
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					
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: processed_0512346329_anadarko_george 25-7hz_rbl_08-16-18_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\0512346329_anadarko_george 25-7hz_rbl_08-16-18\processed_0512346329_anadarko.
Dataset Pathname Main.2
Dataset Creation Fri Aug 17 09:53:51 2018

Gamma Ray Calibration Report

Serial Number: 101001
Tool Model: 2750 6PB
Performed: Sun Nov 12 11:25:32 2017

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: FW1308-089
Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
Calibration Depth: 0.000 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.003	0.621	0.800	71.921	114.103	1.118
CAL	0.707	0.709				
5'	-0.009	0.584	0.800	71.921	119.775	1.934
SUM						
S1	0.002	0.615	0.000	100.000	163.127	-0.404
S2	0.002	0.621	0.000	100.000	161.435	-0.262
S3	-0.006	0.634	0.000	100.000	156.221	0.925
S4	-0.014	0.629	0.000	100.000	155.549	2.179
S5	-0.031	0.630	0.000	100.000	151.247	4.691
S6	-0.023	0.633	0.000	100.000	152.569	3.457
S7	-0.004	0.626	0.000	100.000	158.816	0.605
S8	0.003	0.626	0.000	100.000	160.301	-0.401

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.707	0.709	1.000	0.000

Air Zero Calibration, performed Thu Aug 16 06:26:10 2018:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.005	0.000	0.001
5'	0.008	0.000	-0.001
SUM			
S1	0.004	0.000	0.000
S2	0.006	0.000	-0.001
S3	0.005	0.000	-0.000
S4	0.005	0.000	-0.000
S5	0.006	0.000	-0.001
S6	0.005	0.000	-0.000
S7	0.005	0.000	-0.000
S8	0.005	0.000	0.000

Temperature Calibration Report

Serial Number: FW1308-089
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:49:09 2017

	Reference	Reading
Low Reference:	100.00 degF	106.47 degF
High Reference:	350.00 degF	395.10 degF
Gain:	0.87	
Offset:	7.78	
Delta Spacing	1	



Company	Kerr-McGee Oil & Gas Onshore, L.P.
Well	George 25-7HZ
Field	Wattenberg
County	Weld
State	Colorado