



County Weld State Colorado

G.L. 5222

ner			
-----	--	--	--

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 Casing Tally reported Marker Joint at 7397 FT  
Adjusted -9 FT to correlate with Marker Joint  
Gauge Ring/Junk Basket ran to 8486 FT  
Retrievable Bridge Plug set at 7397 FT  
Log ran with 0 PSI Surface Induced Pressure  
Logging tools were clean and free of debris upon completion of operations

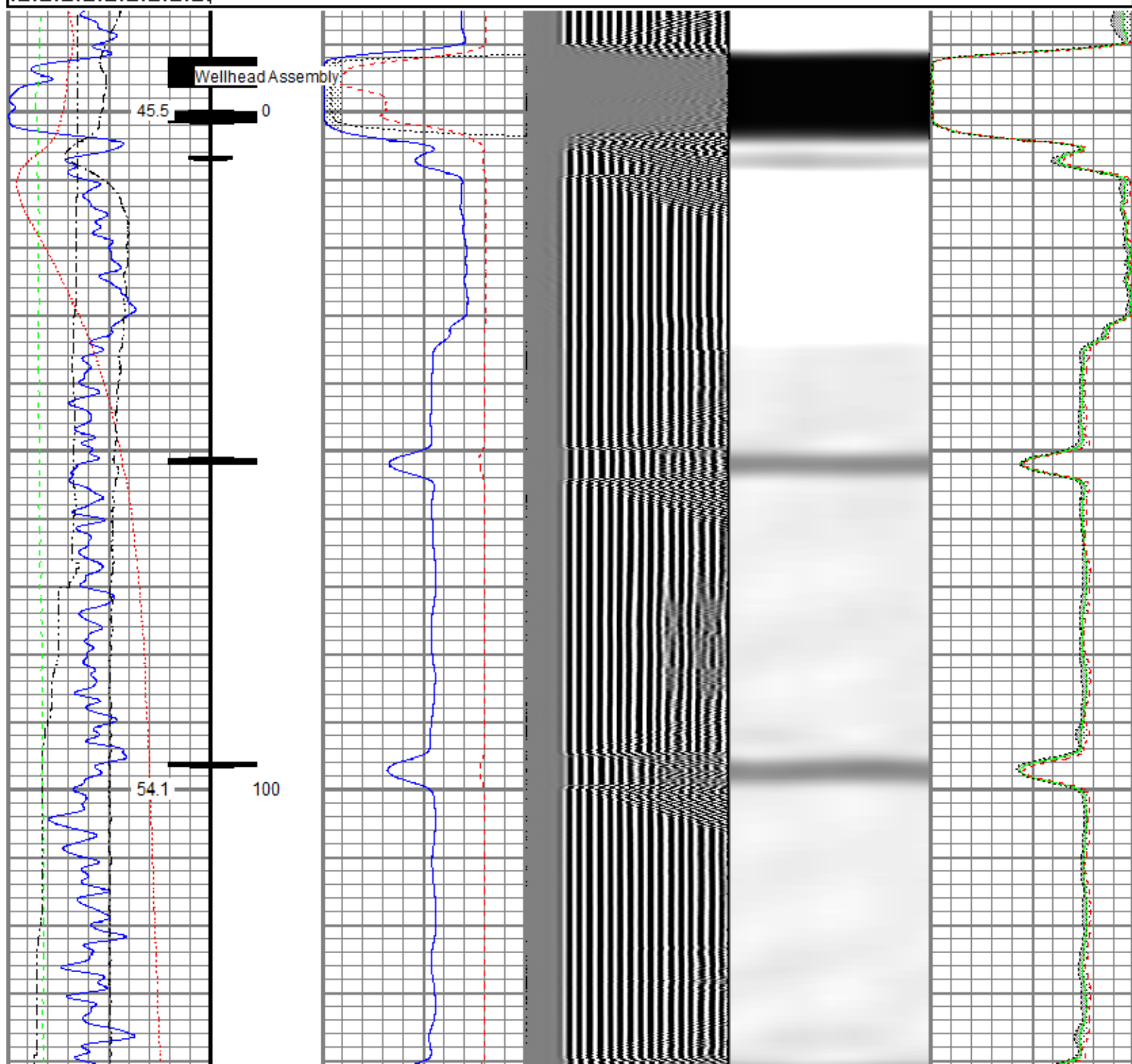
Thank you for choosing Reliance Oilfield Services, LLC!!

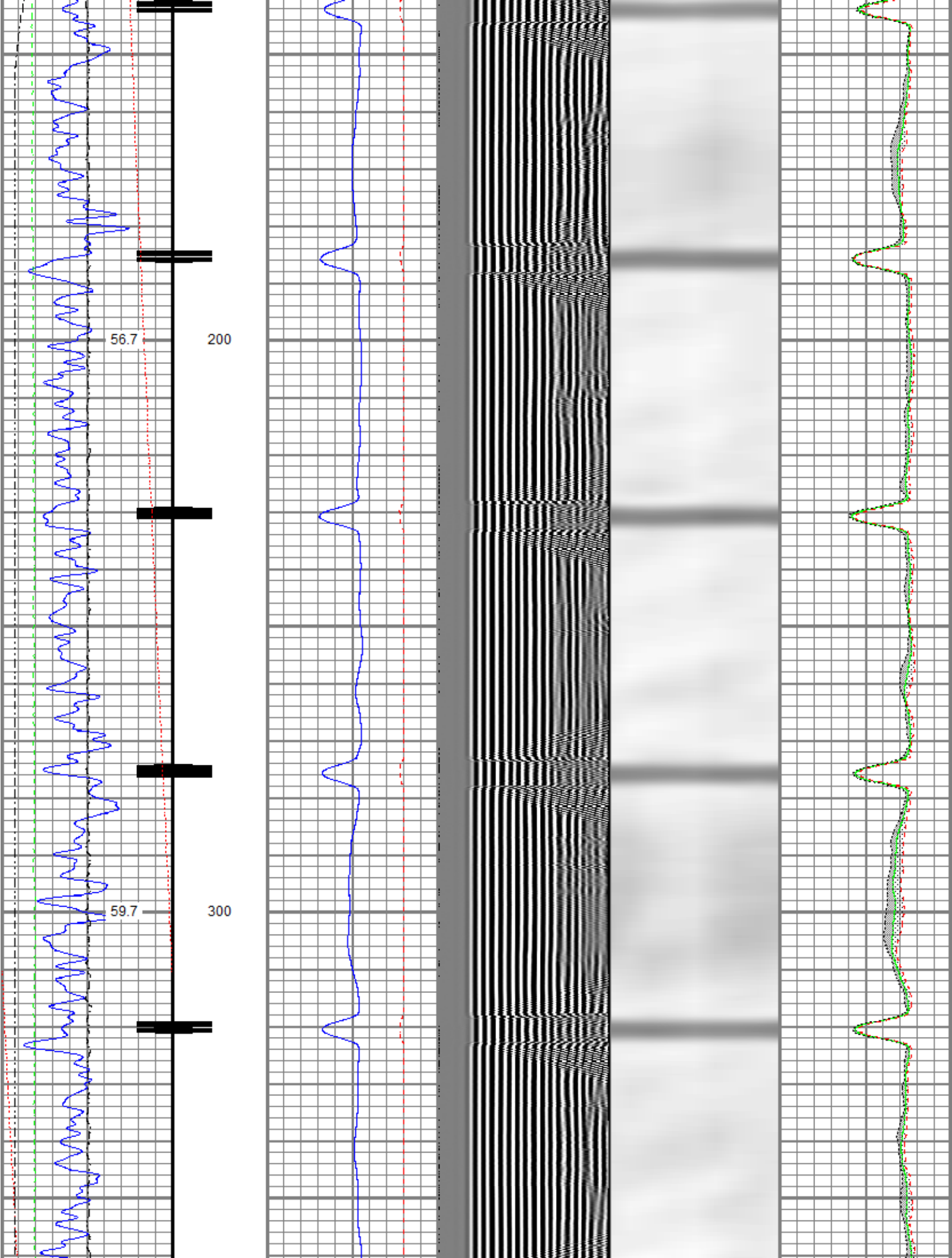
## Main Pass

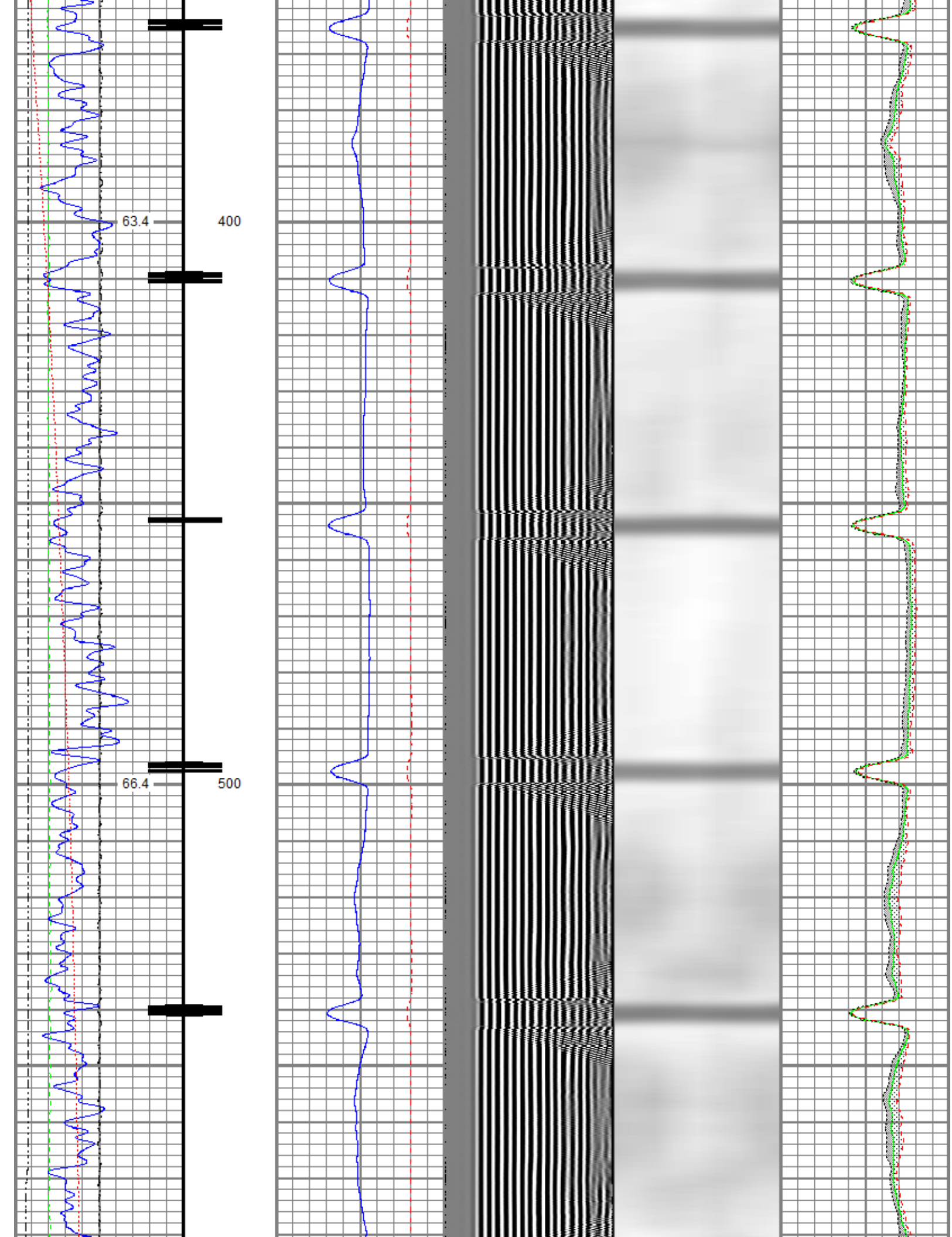


Database File 0512350635\_oxy\_windsock 21-3hz\_rbl\_03-12-20\0512350635\_oxy\_windsock 21-3hz\_rbl\_03-12-20.db  
 Dataset Pathname run2/pass4.2  
 Presentation Format ros\_radri  
 Dataset Creation Mon Mar 16 07:44:16 2020  
 Charted by Depth in Feet scaled 1:240

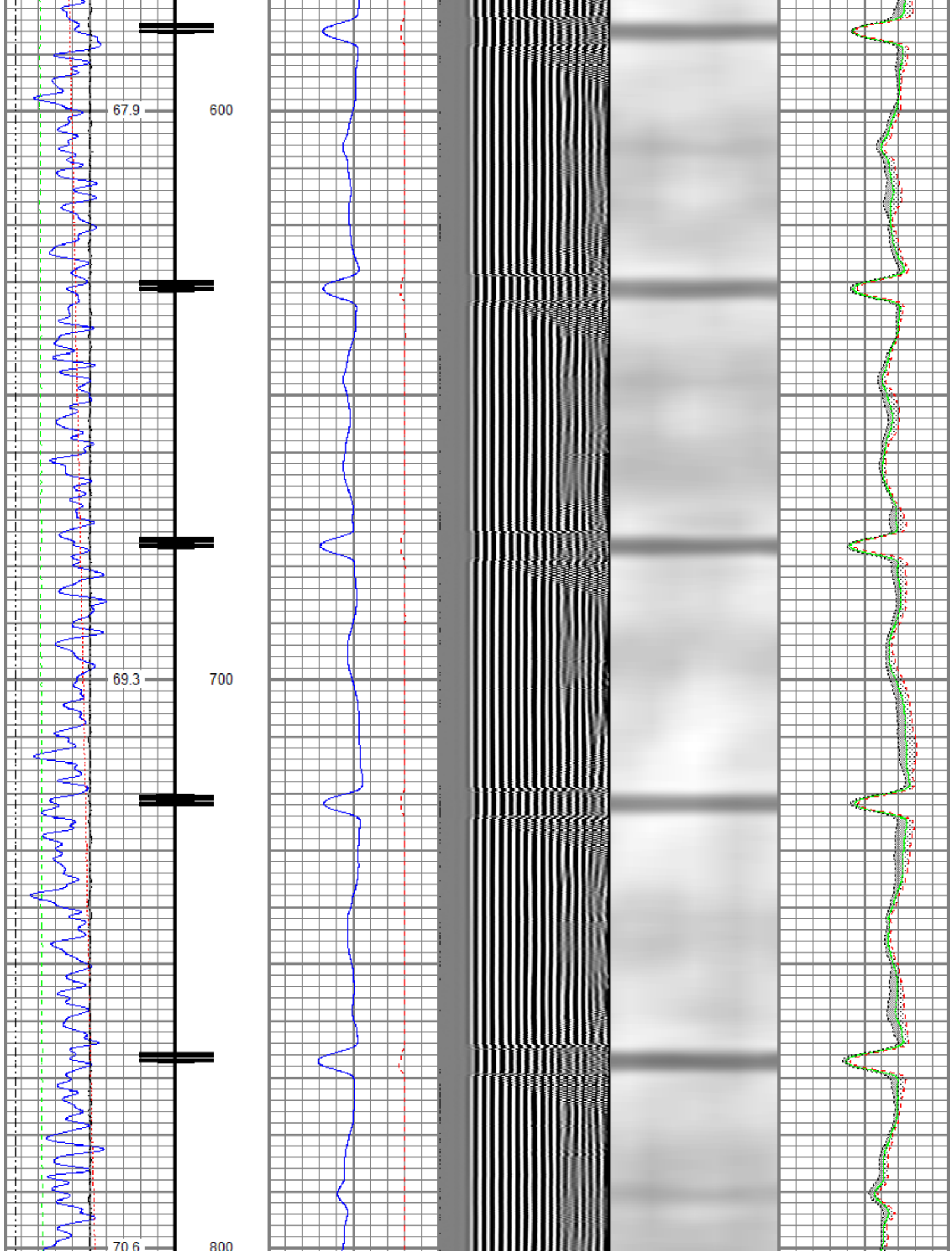
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min)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

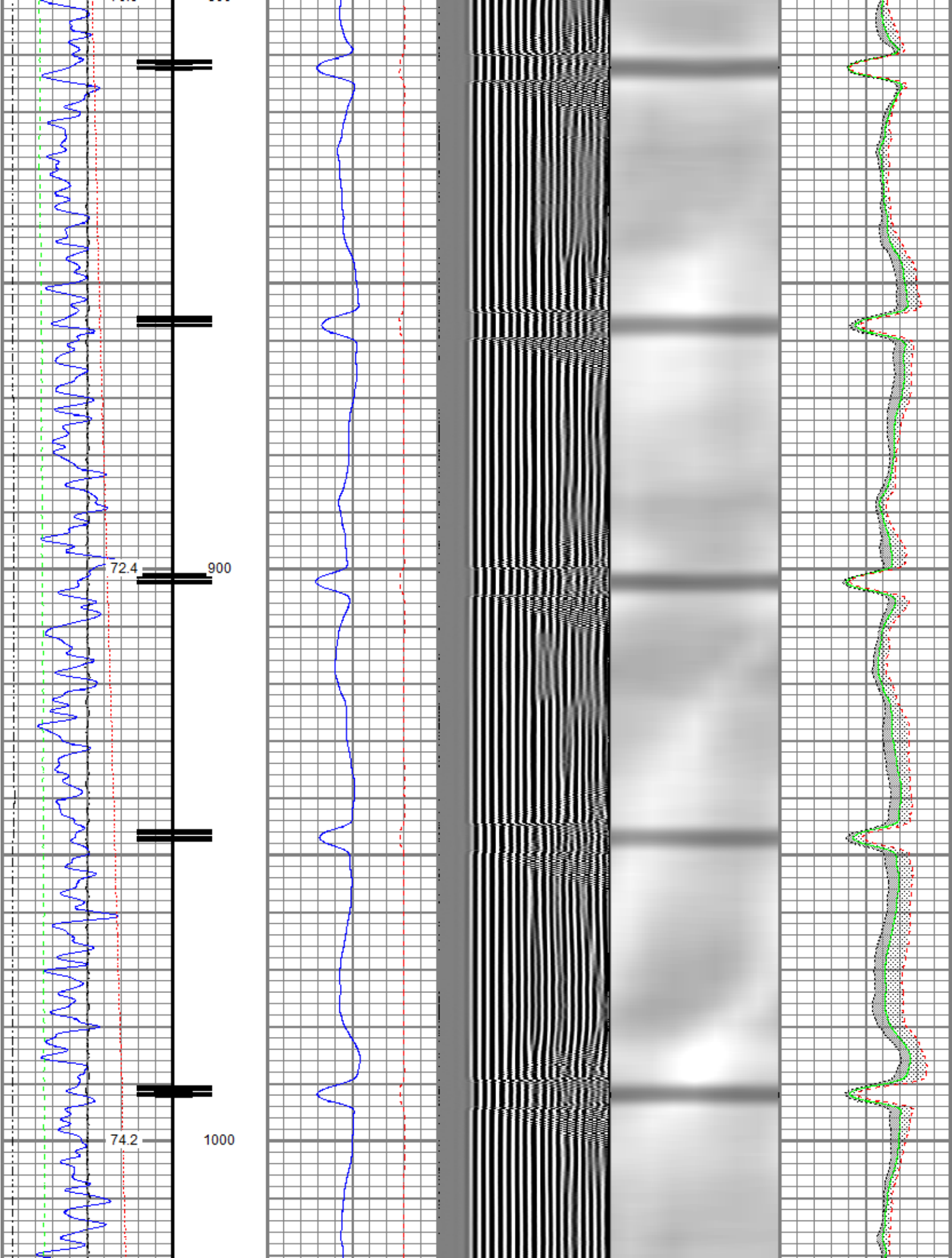


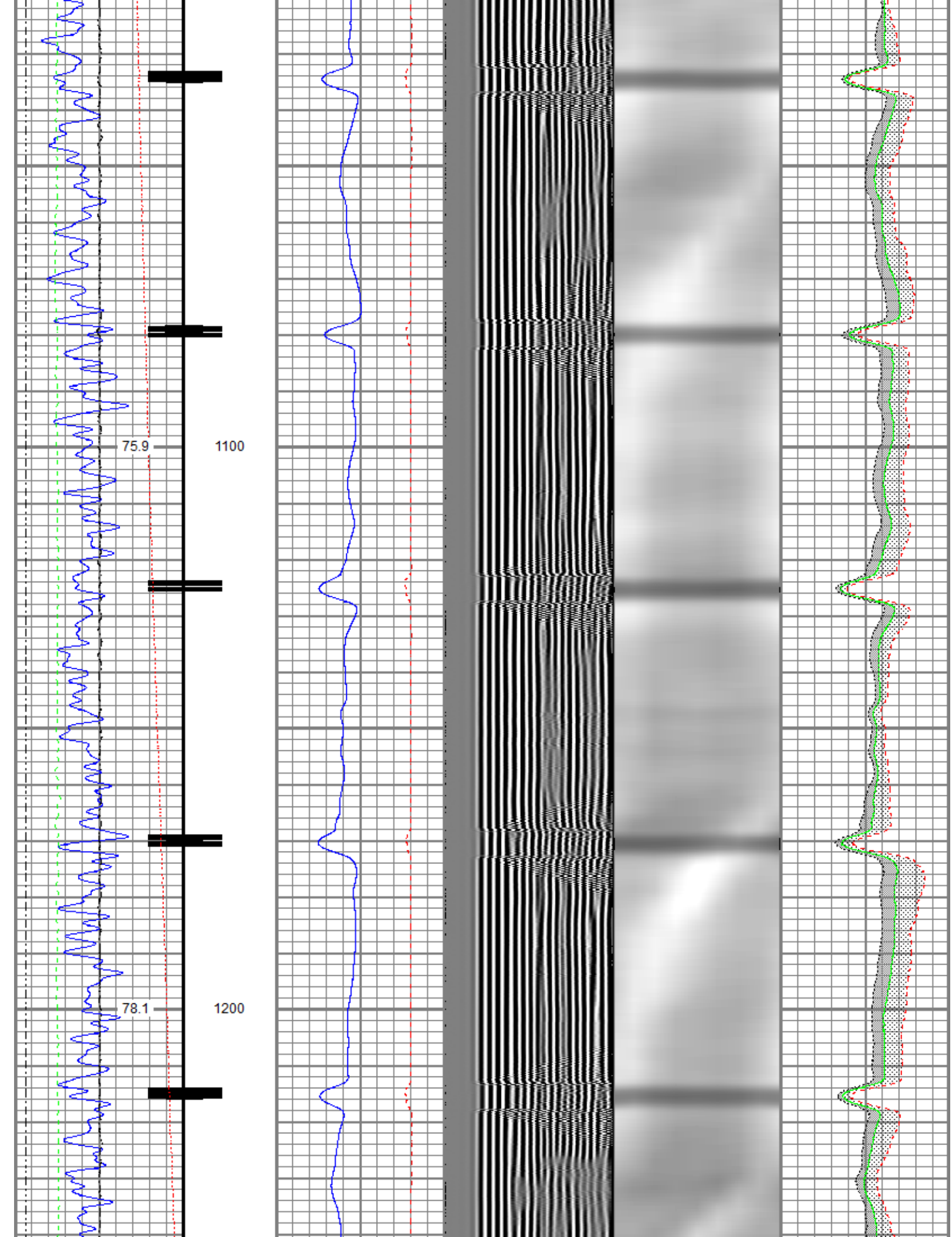




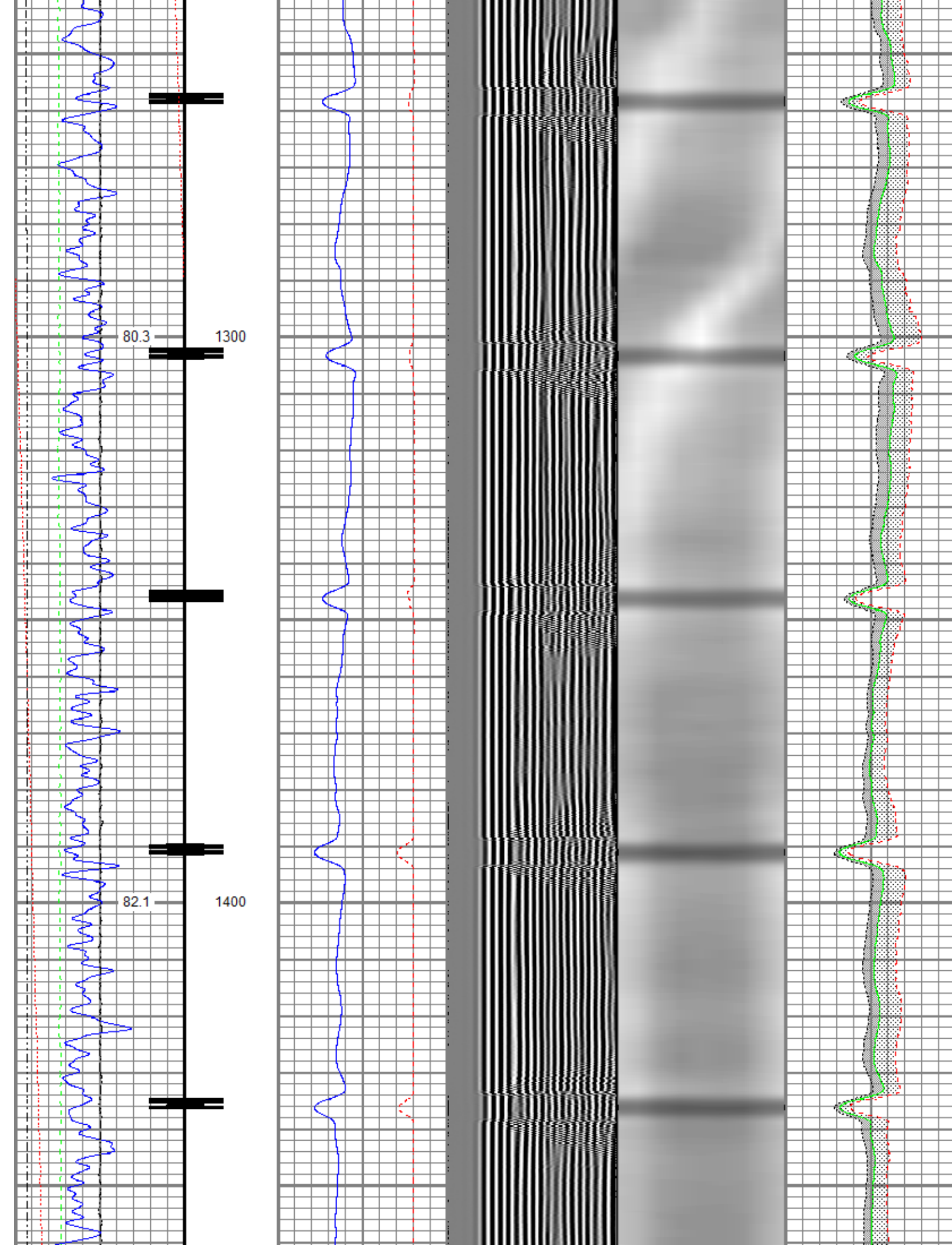




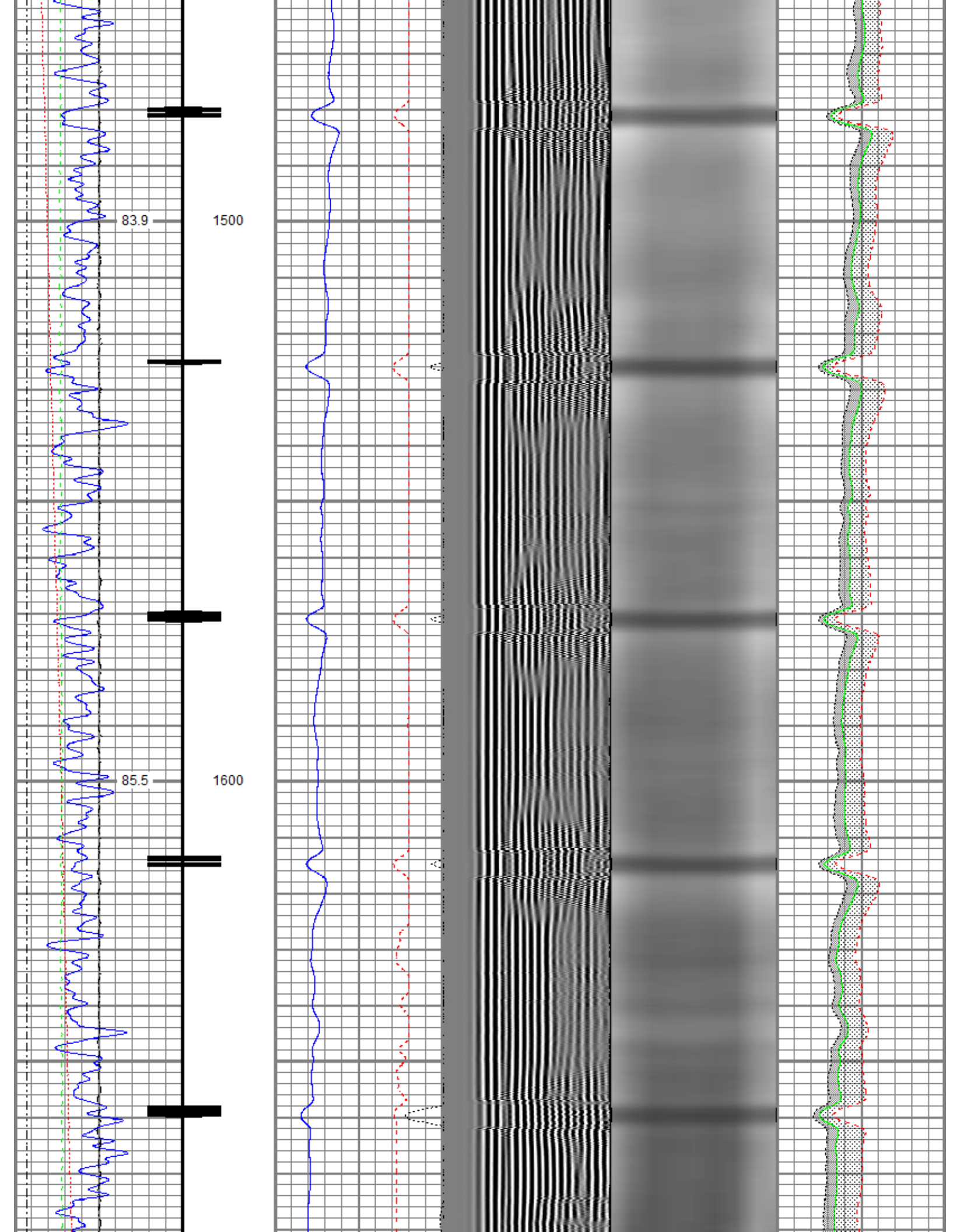


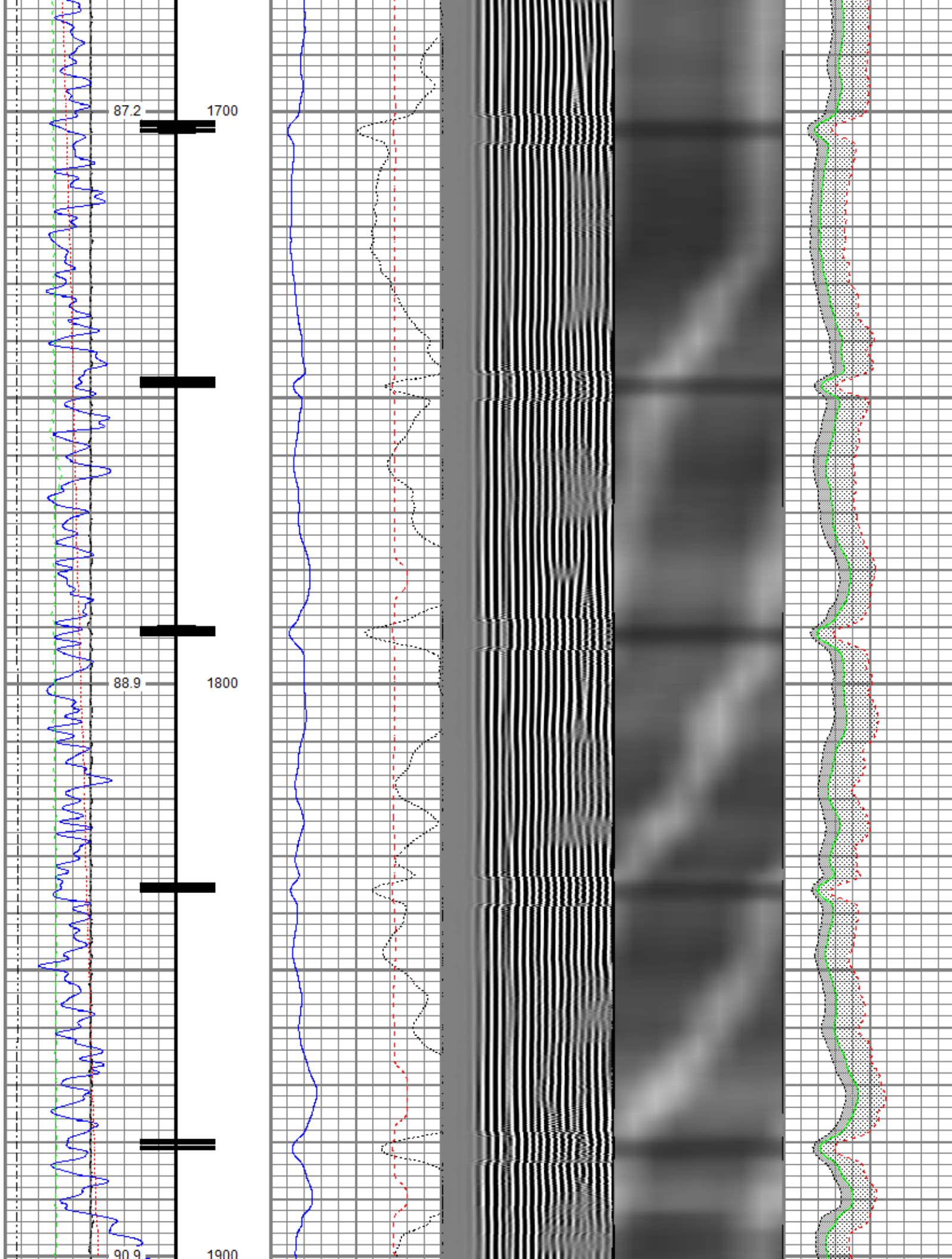


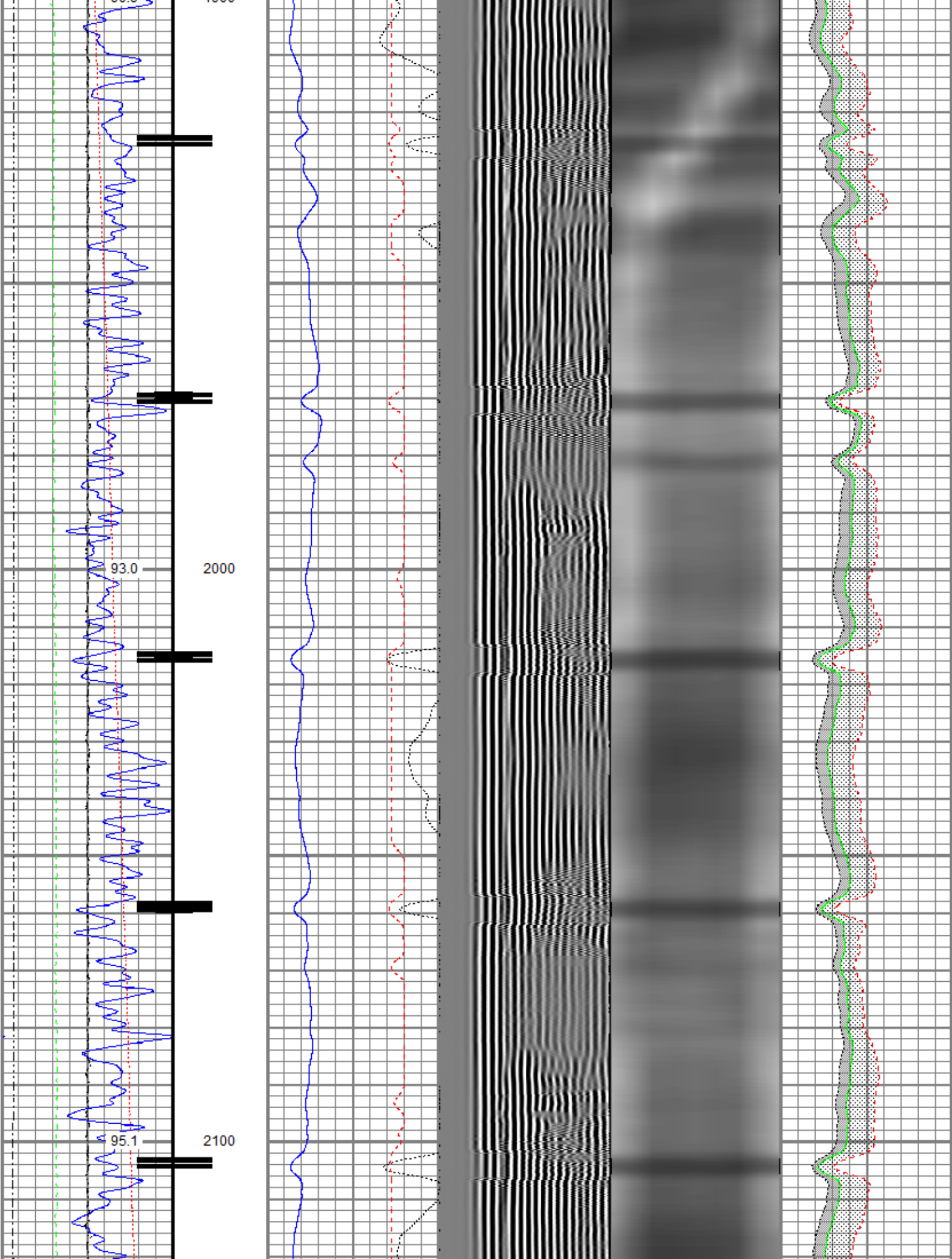




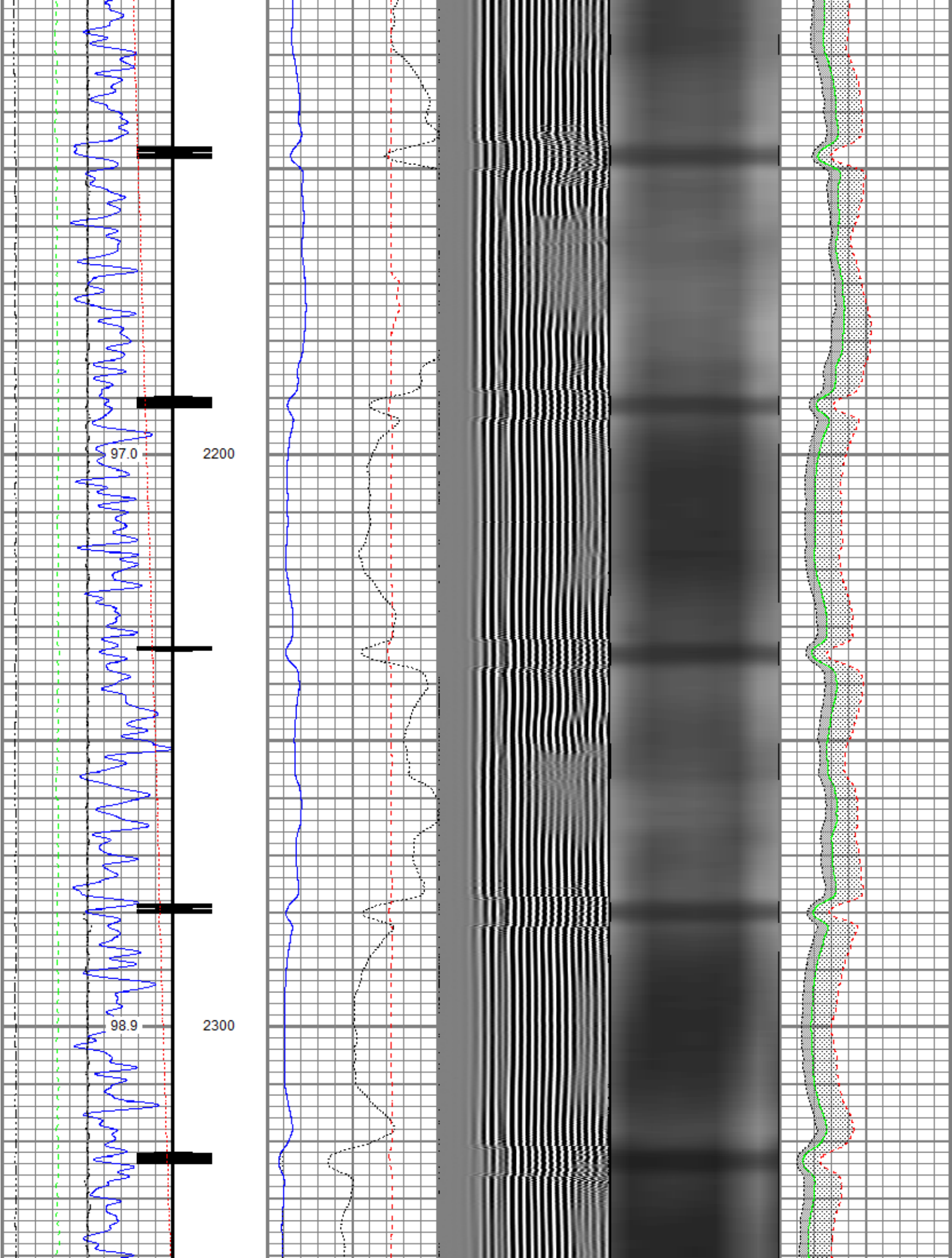




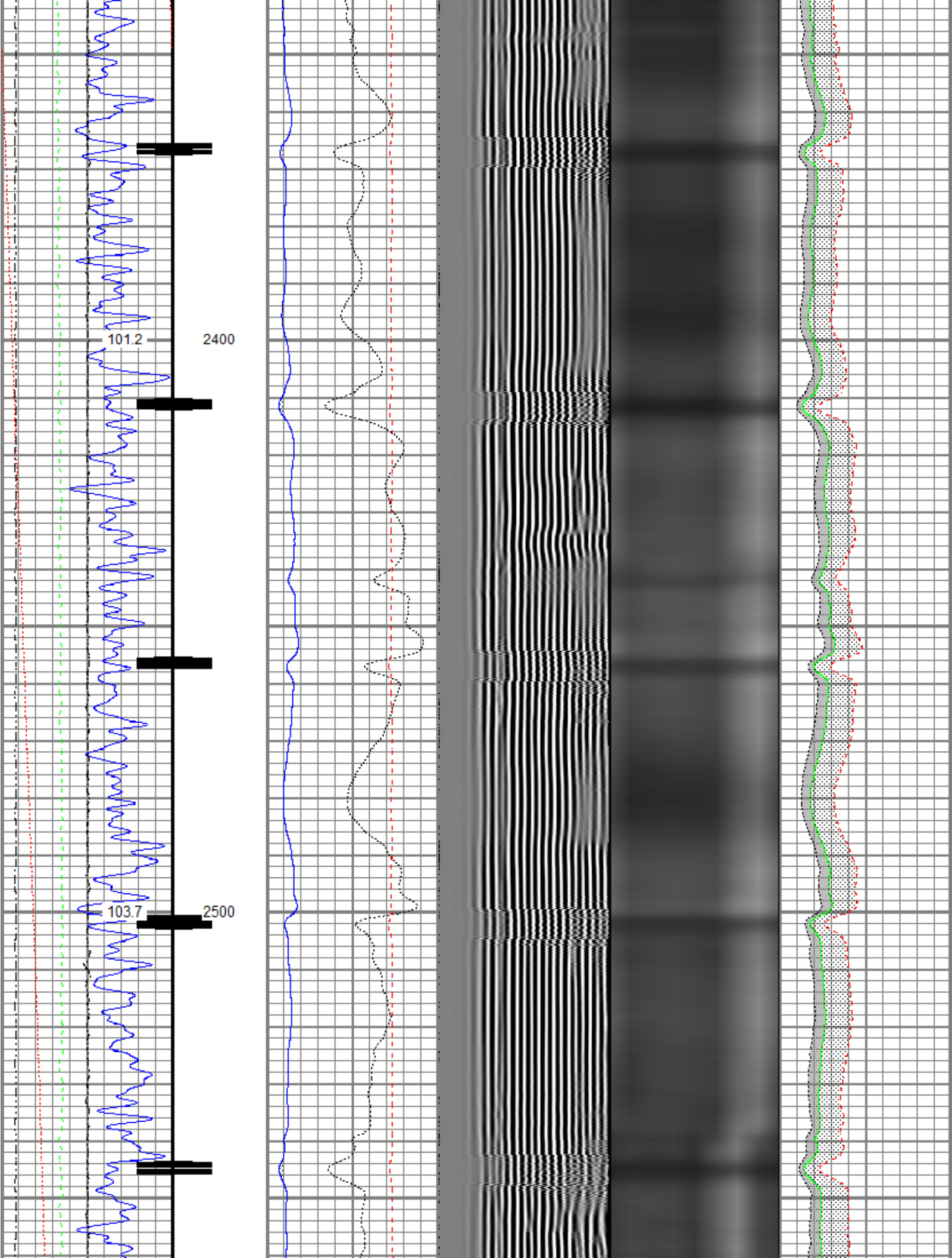


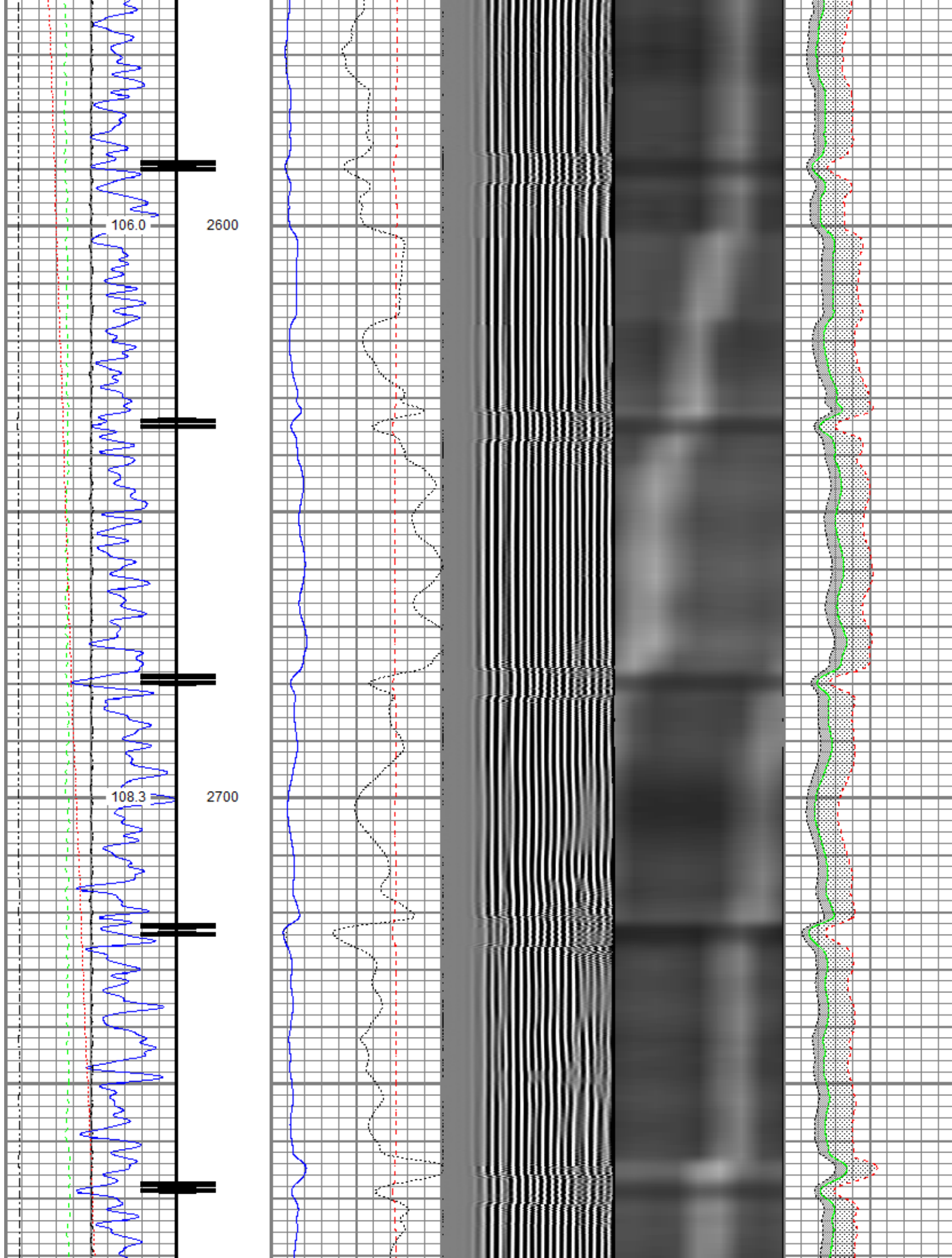


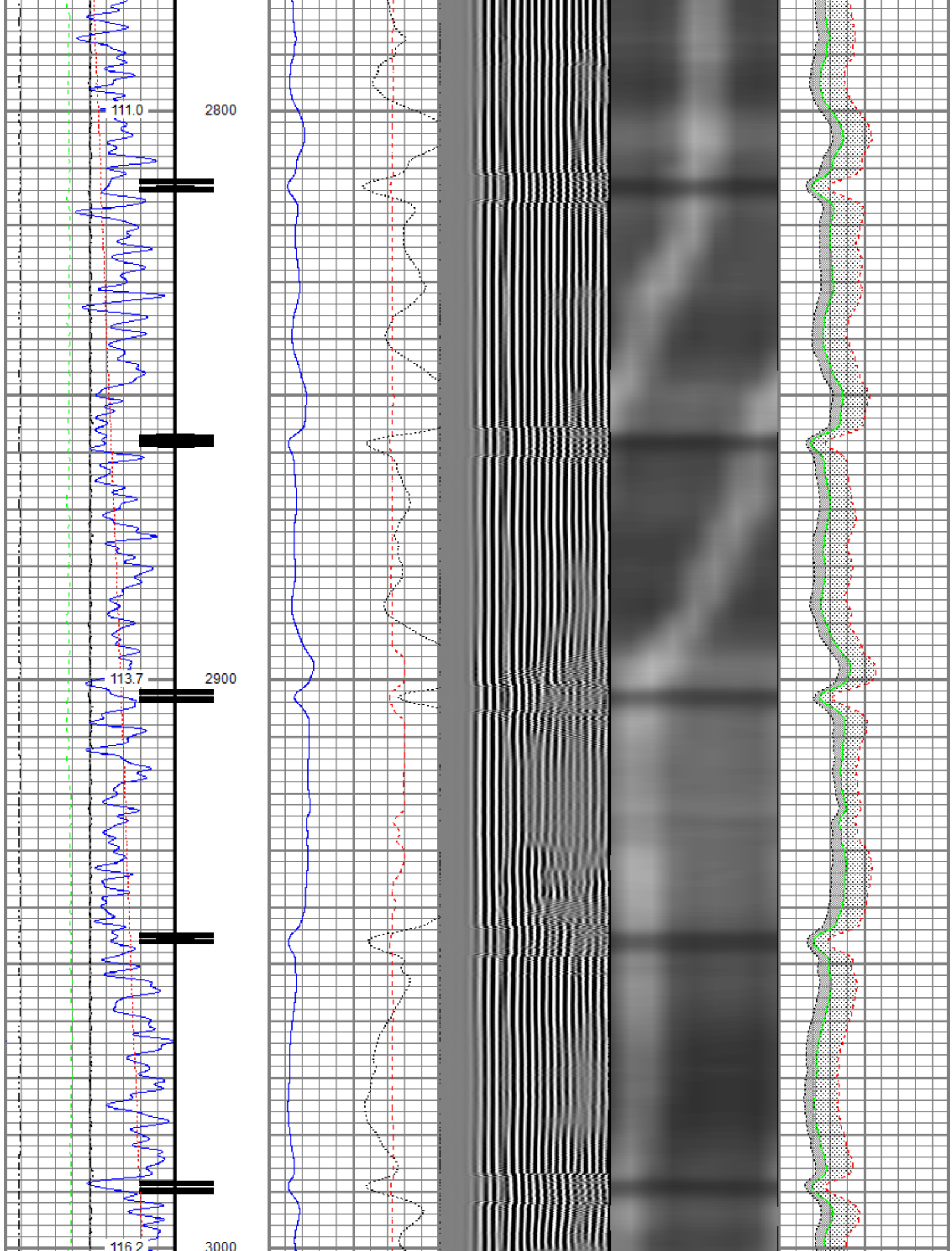




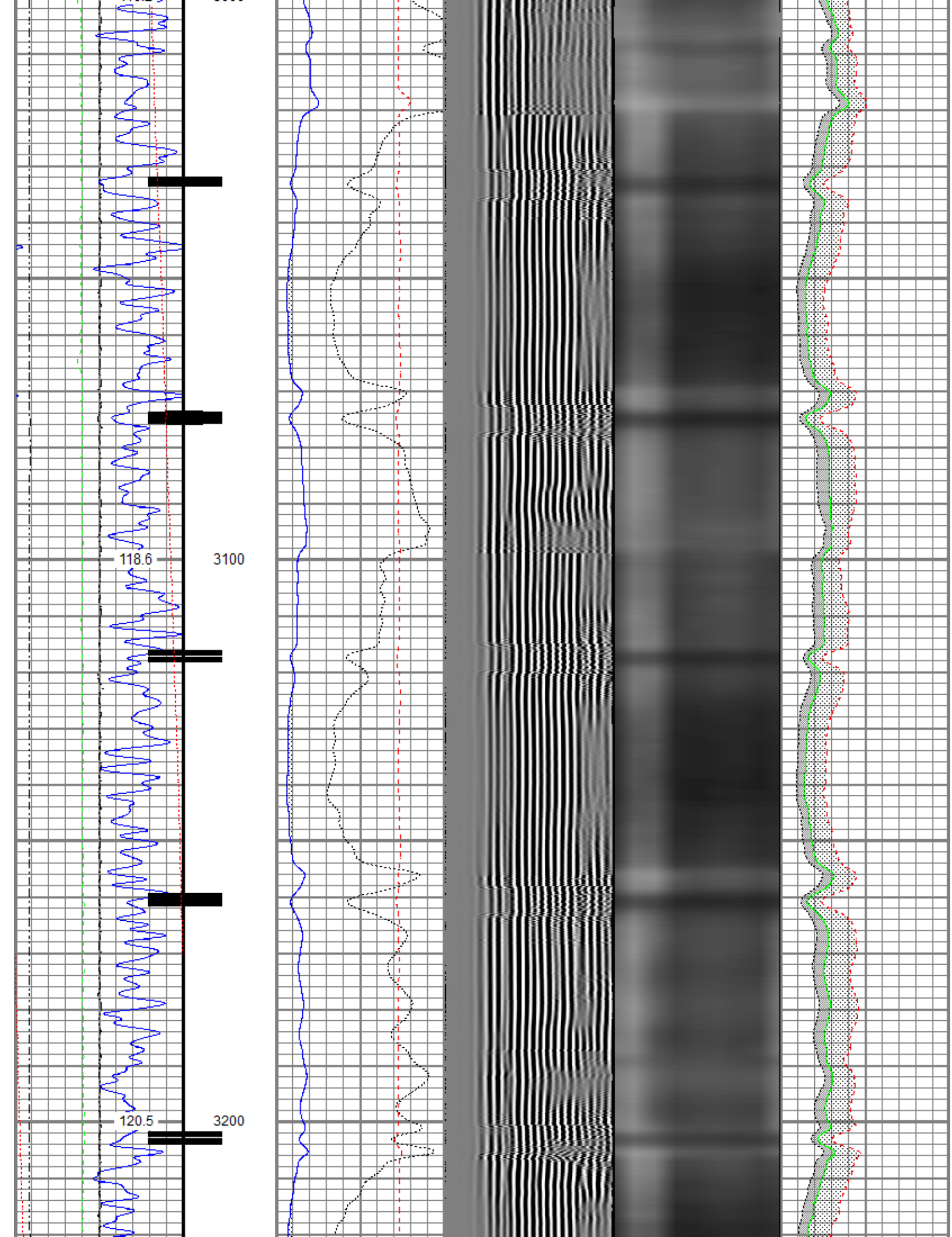




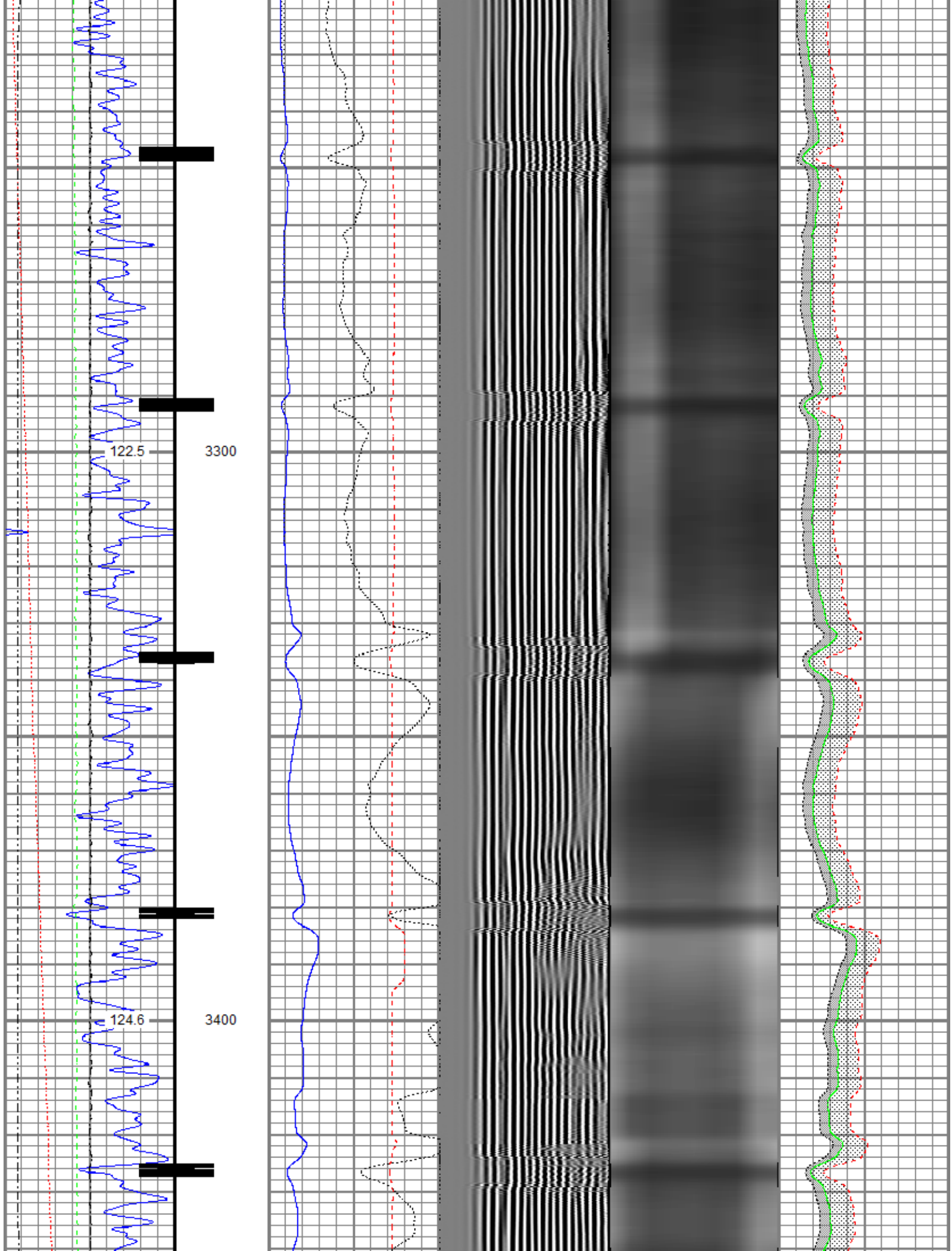


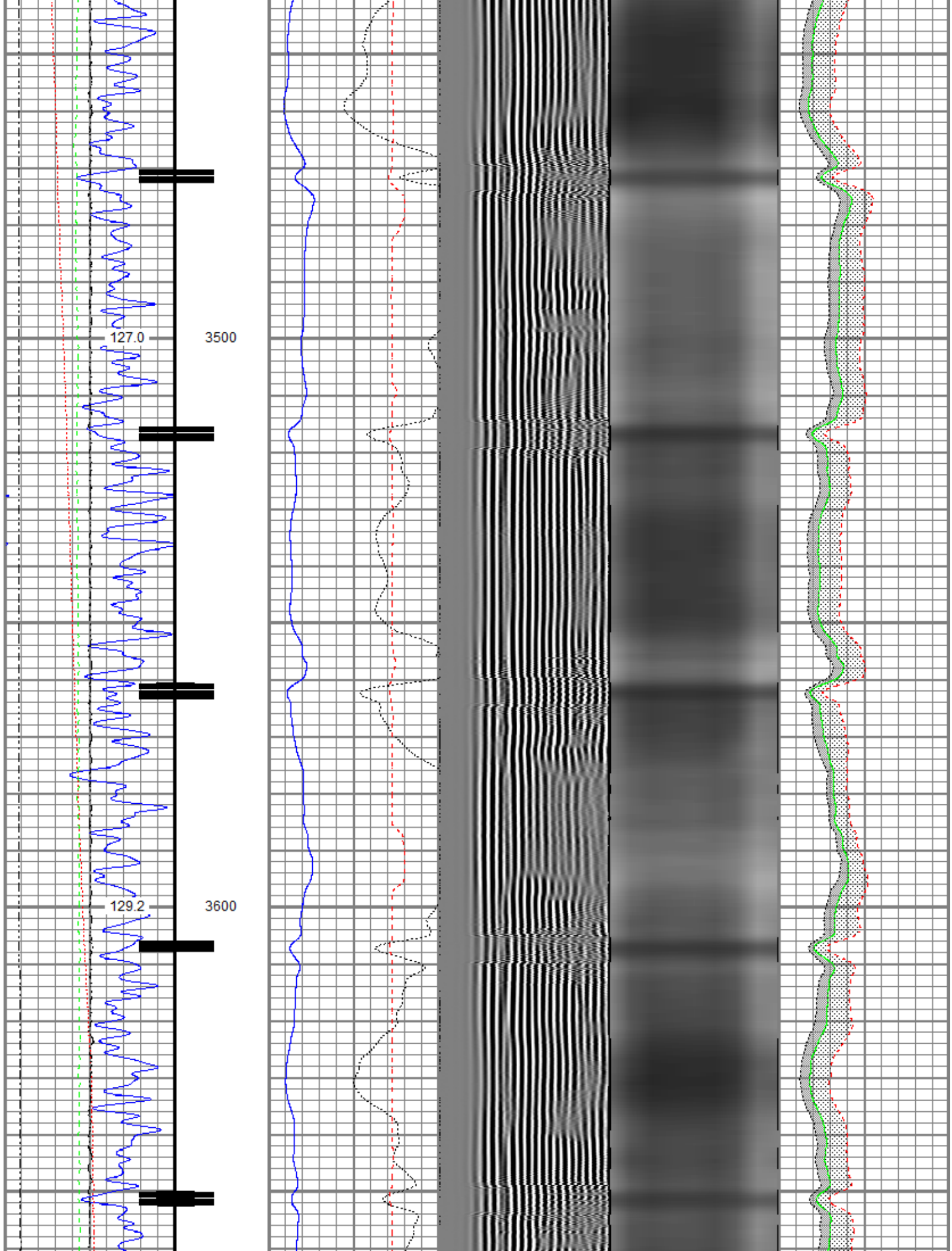


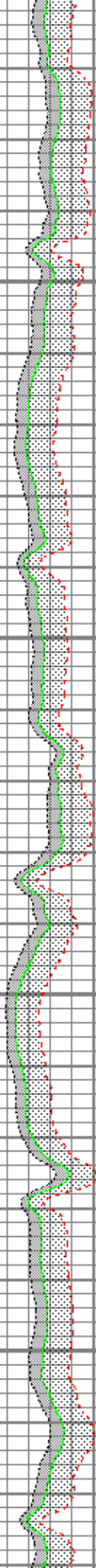
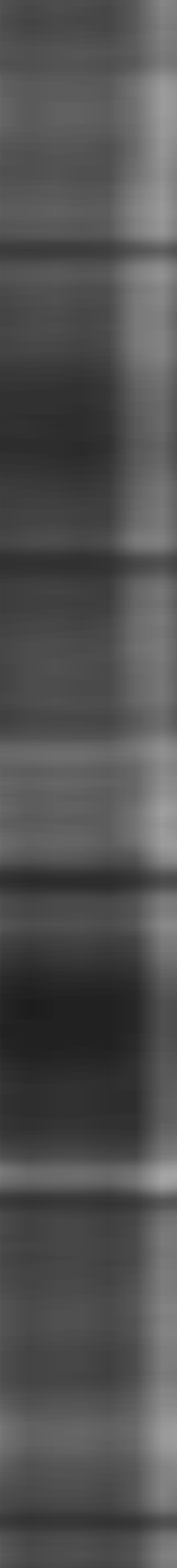
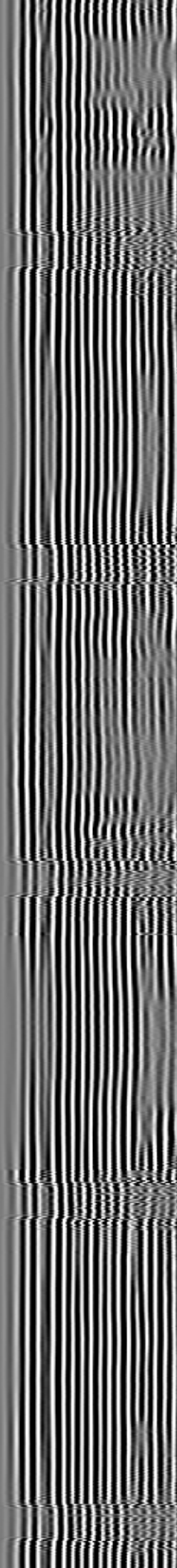
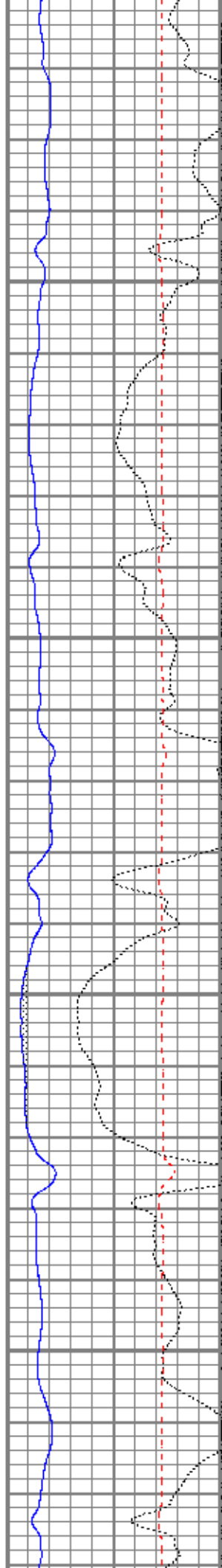
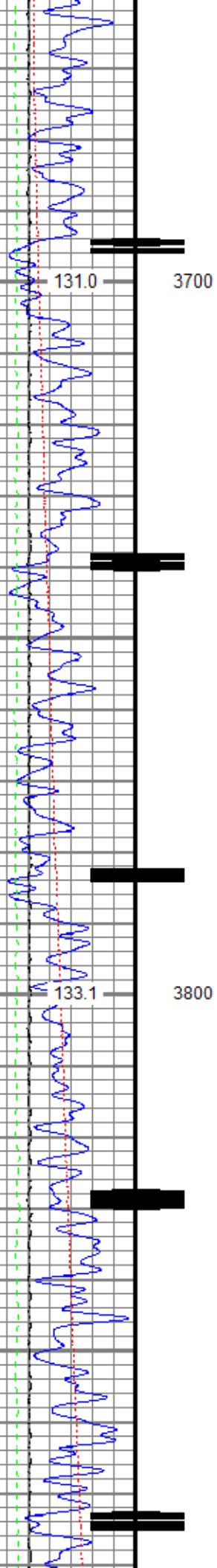




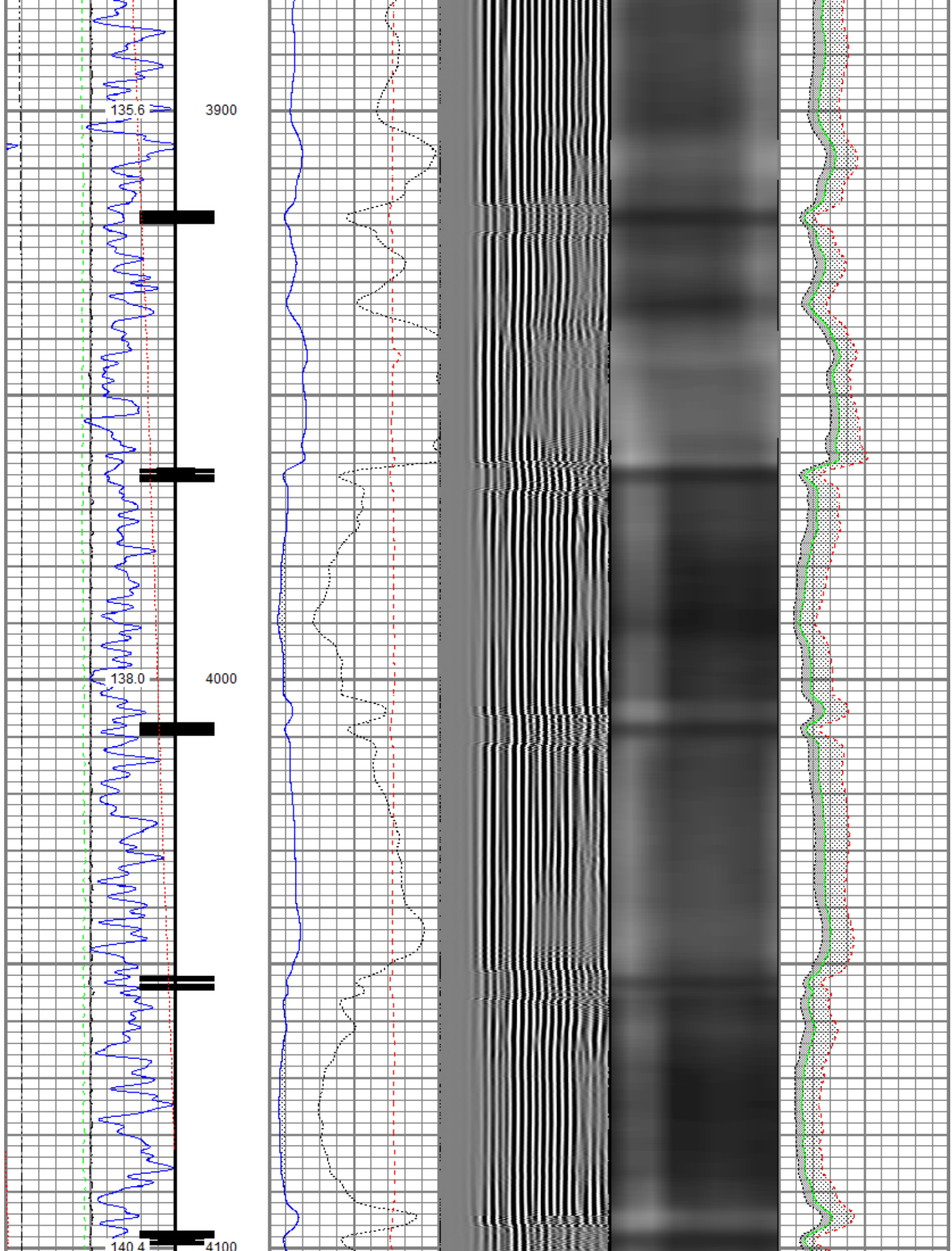




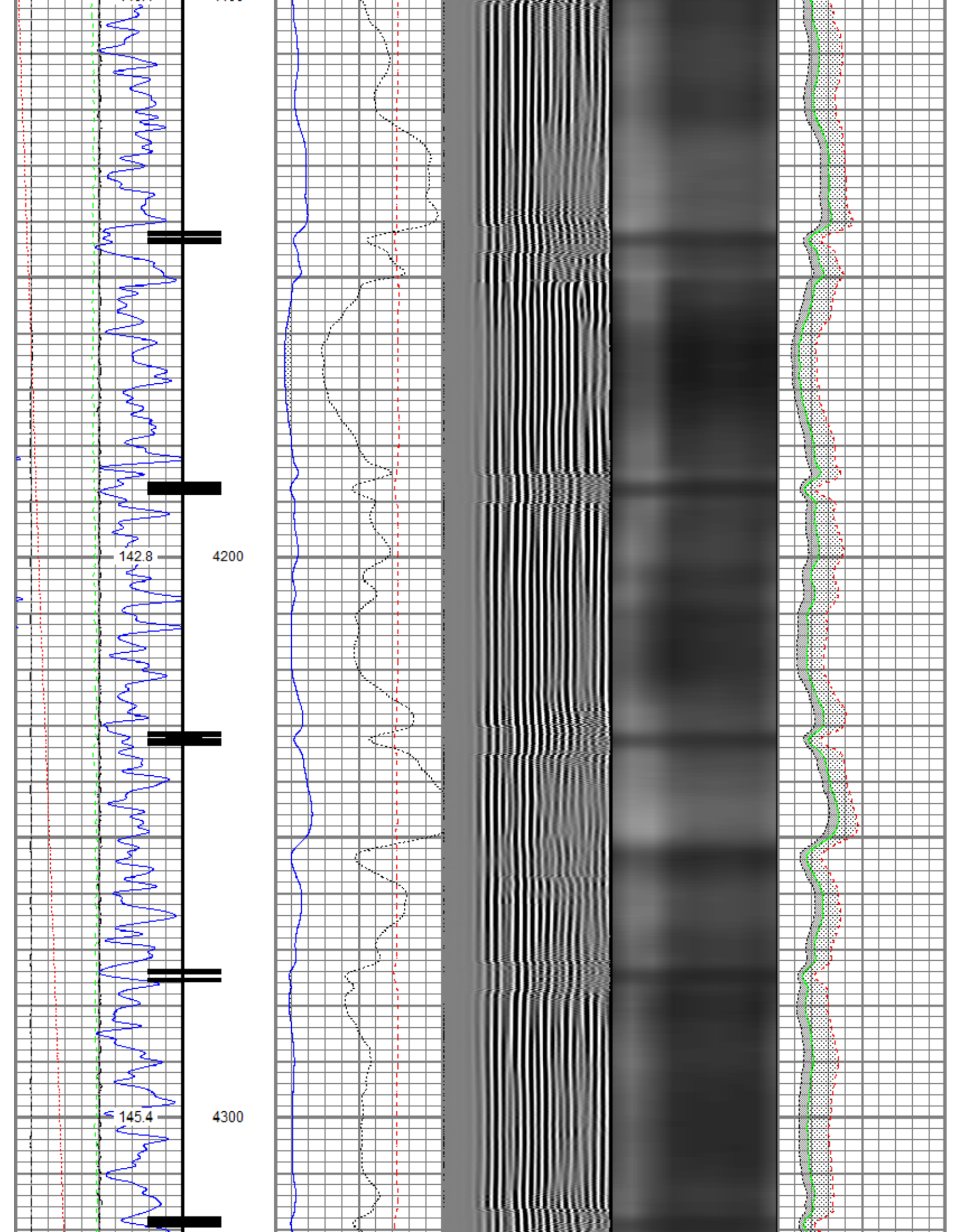


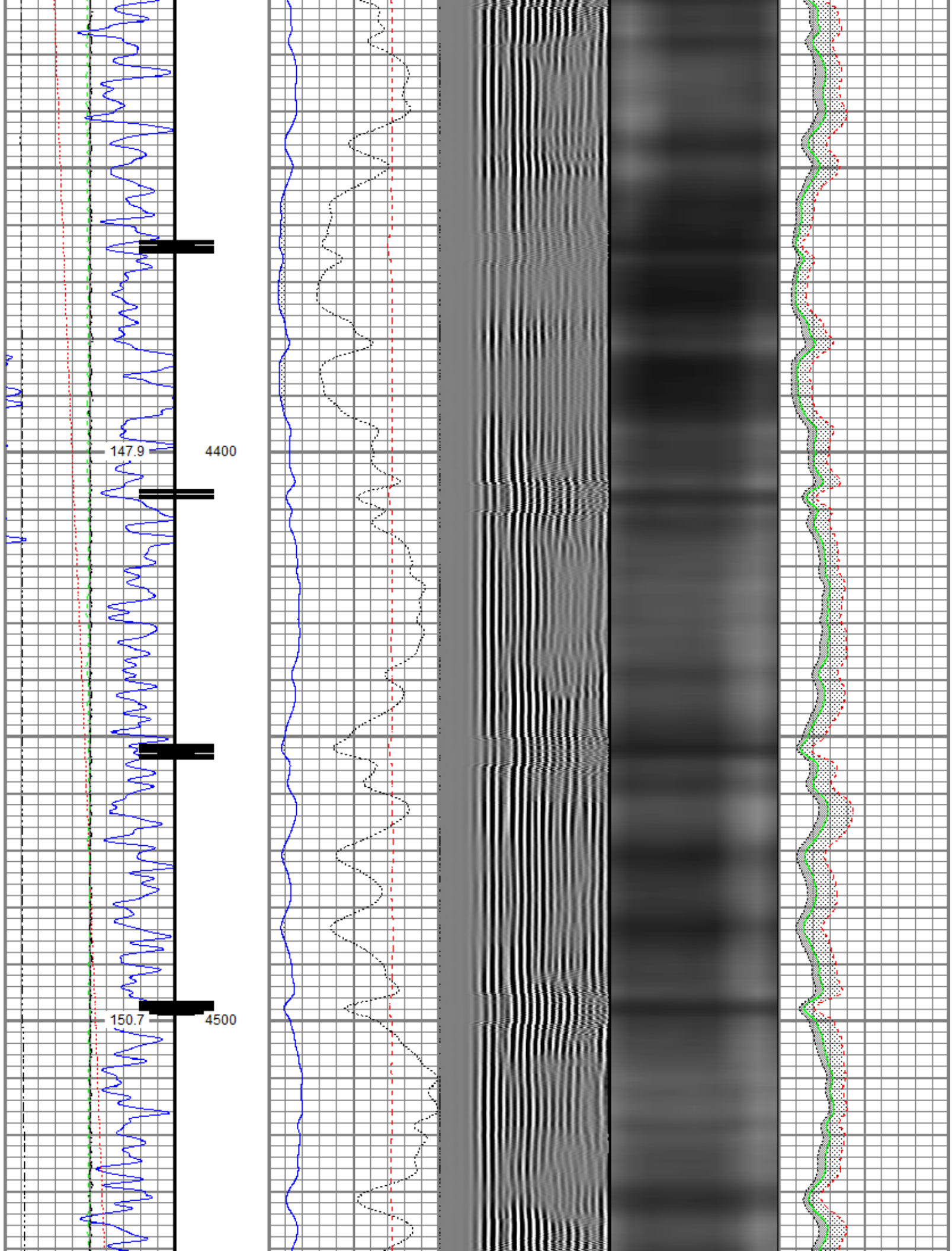


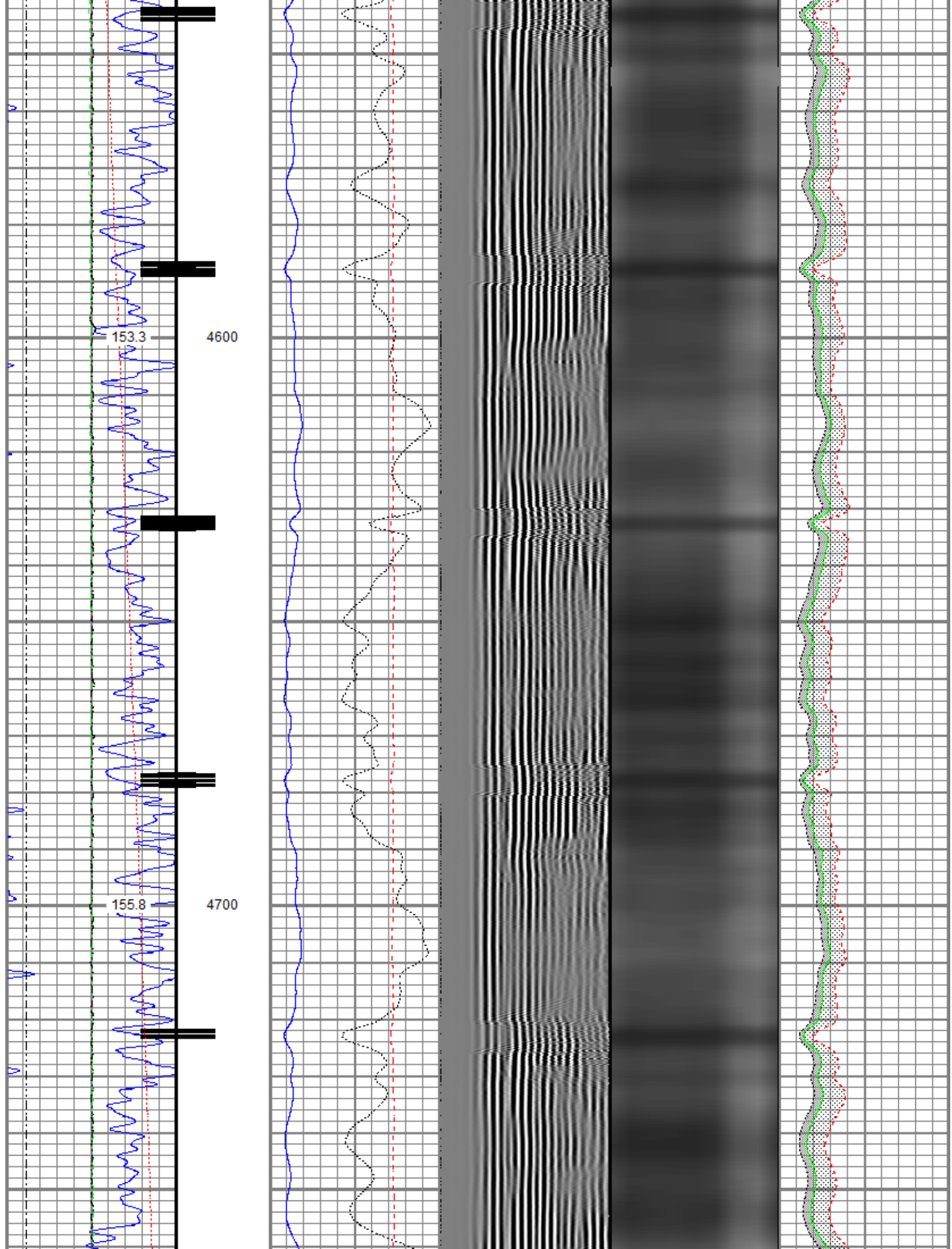




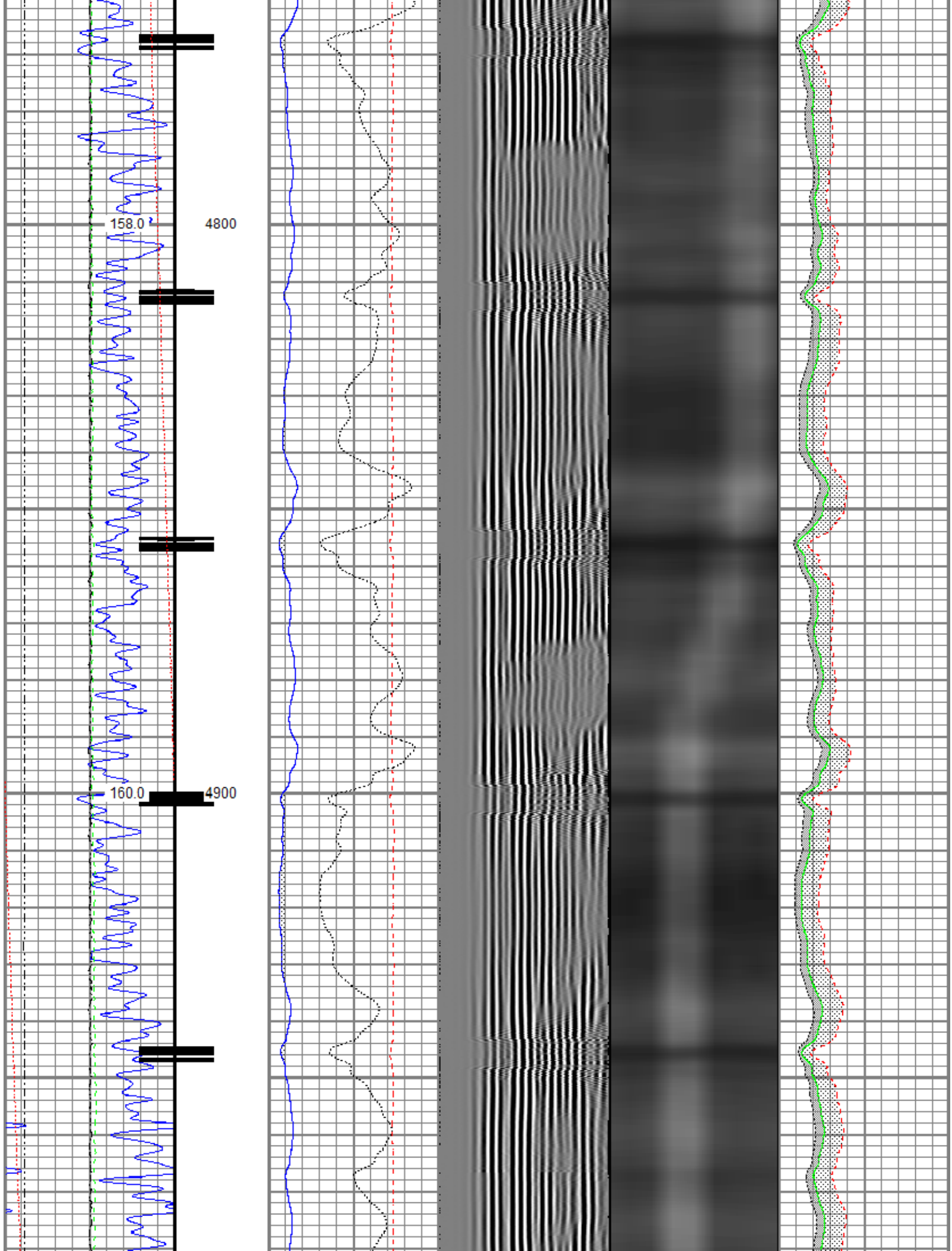


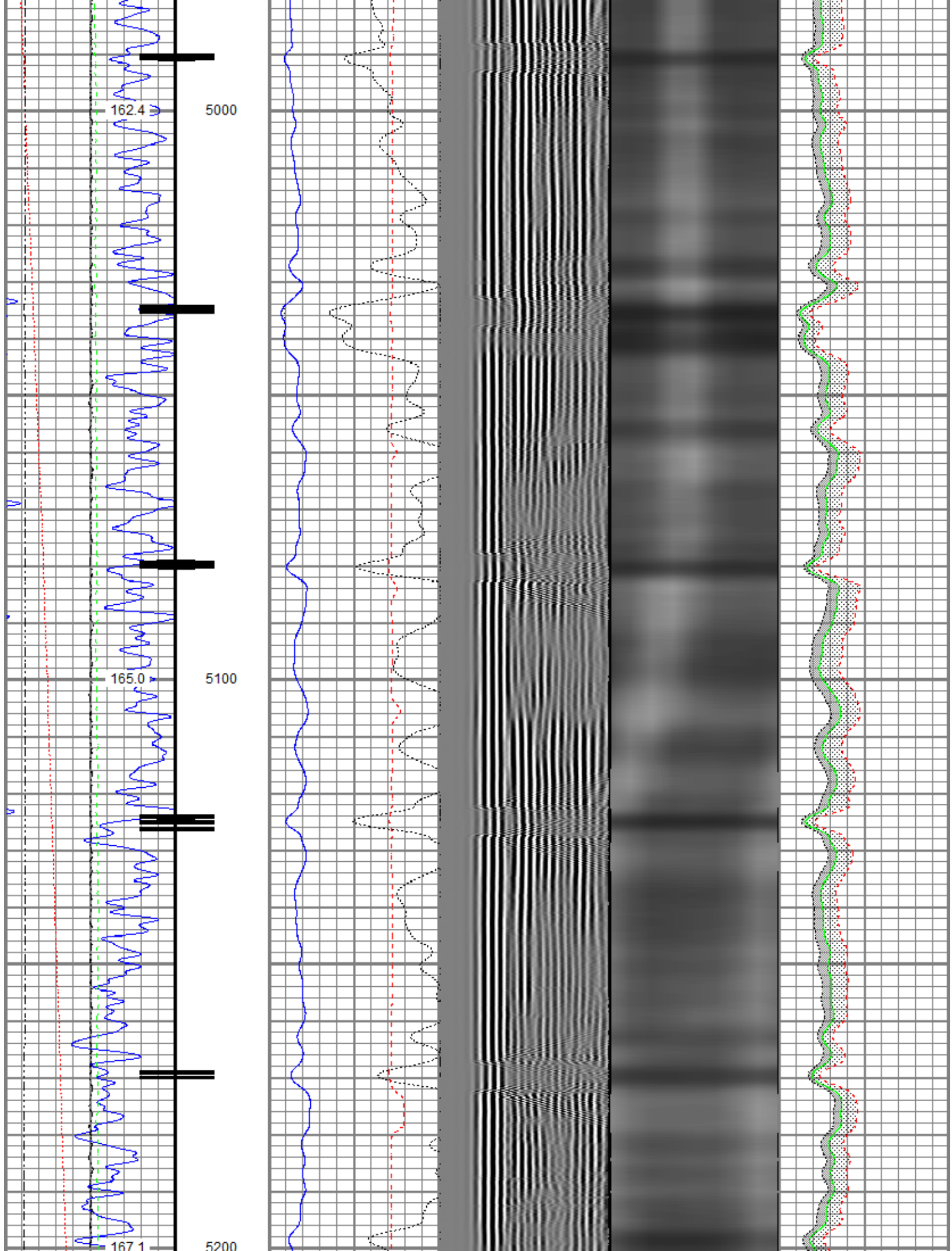


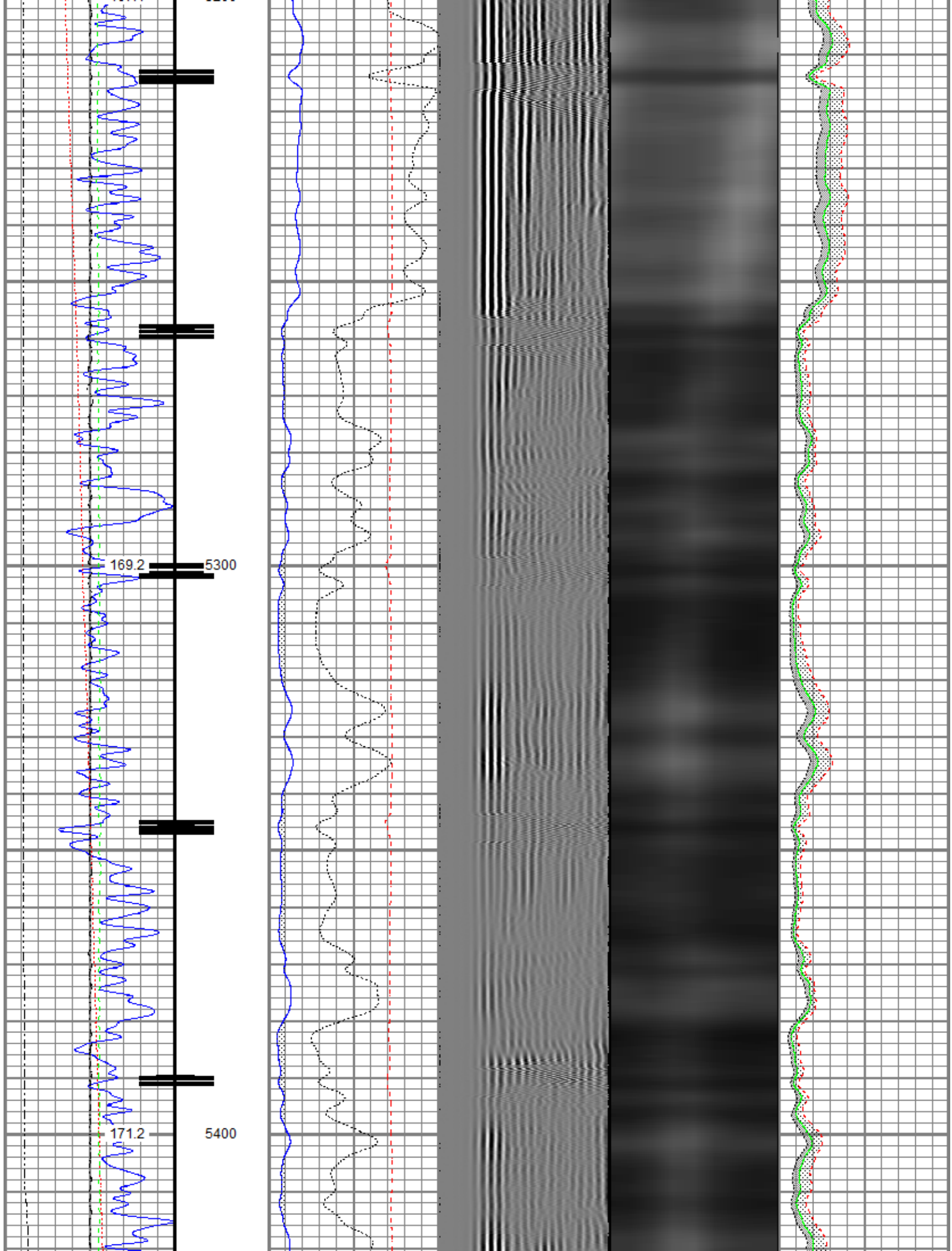




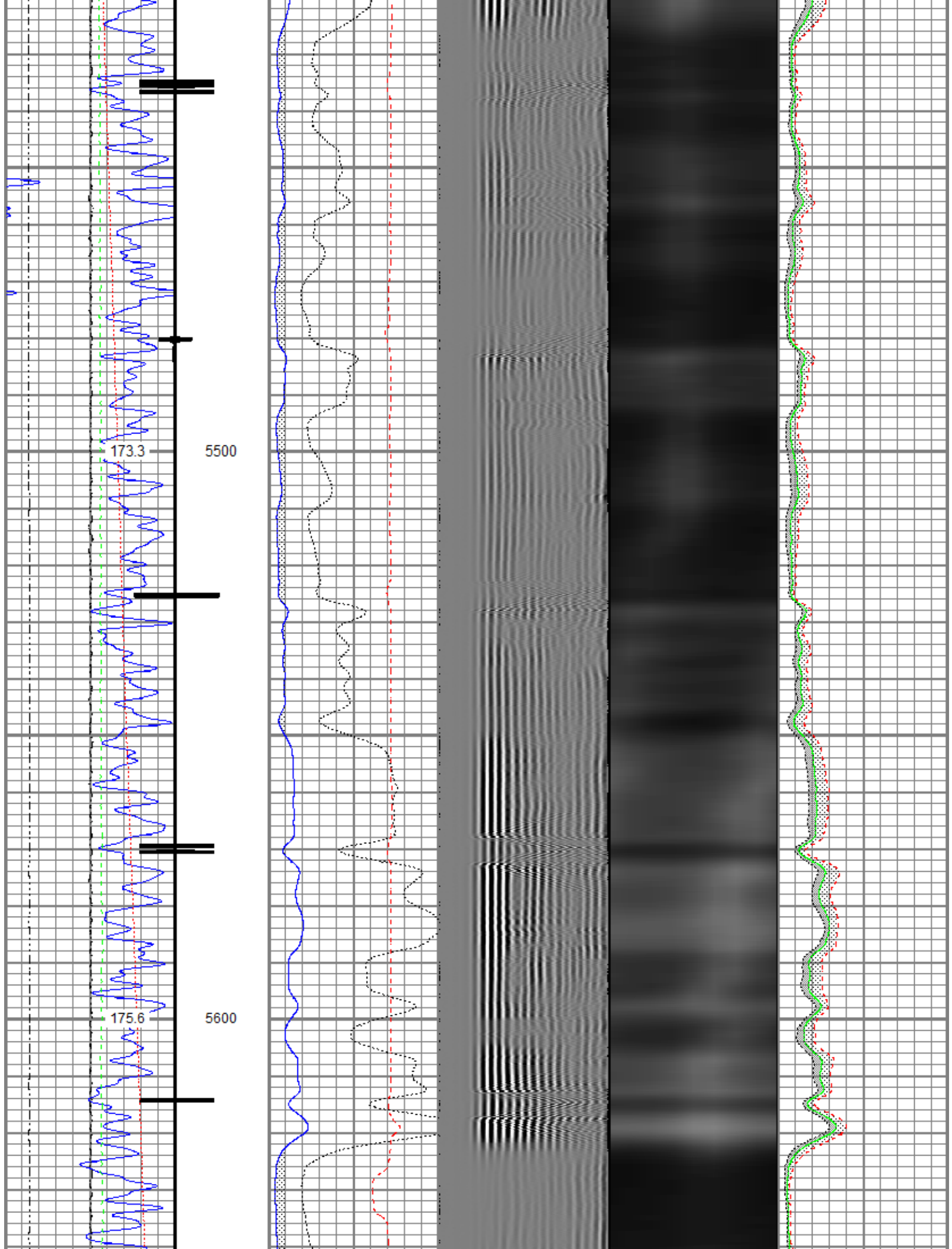


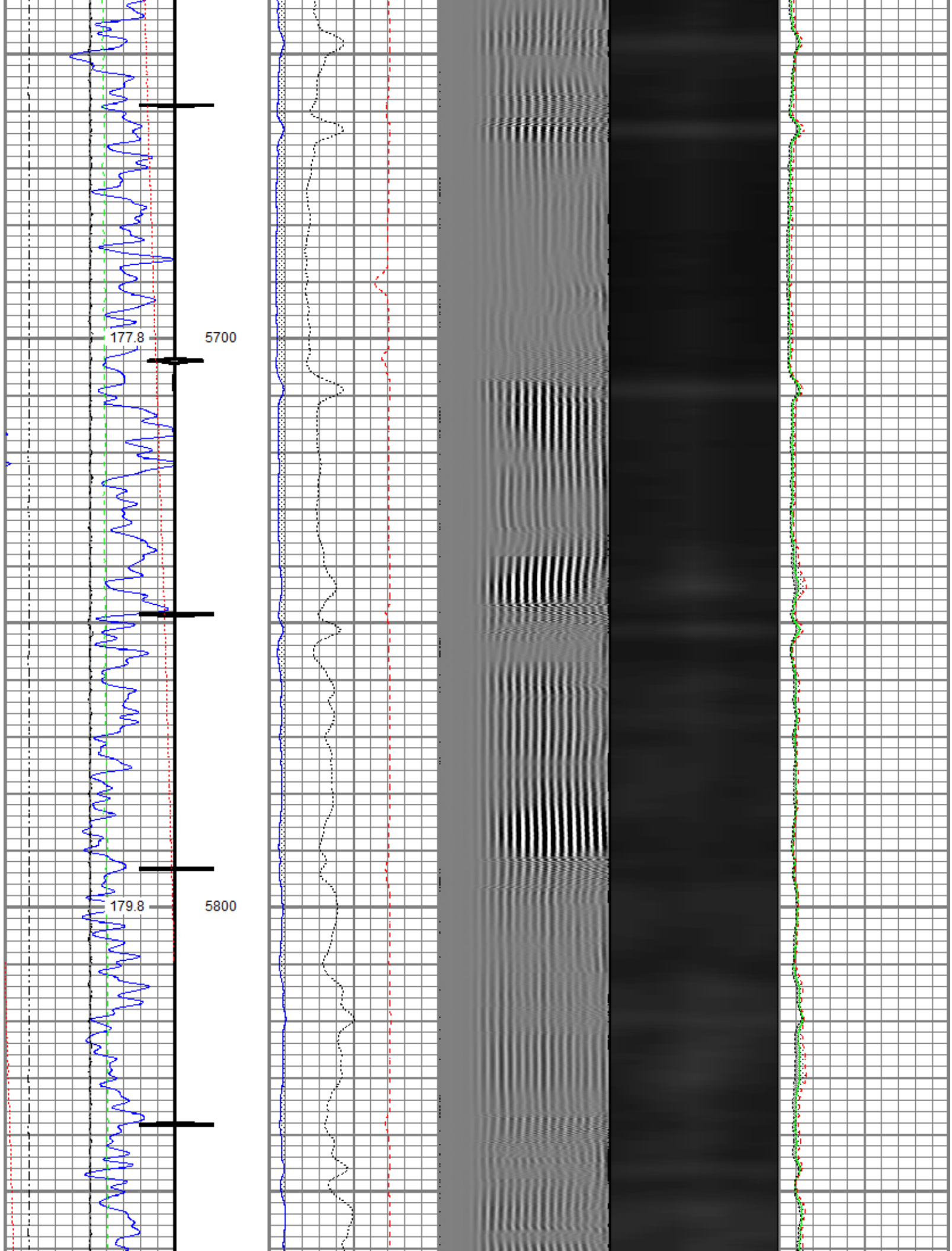


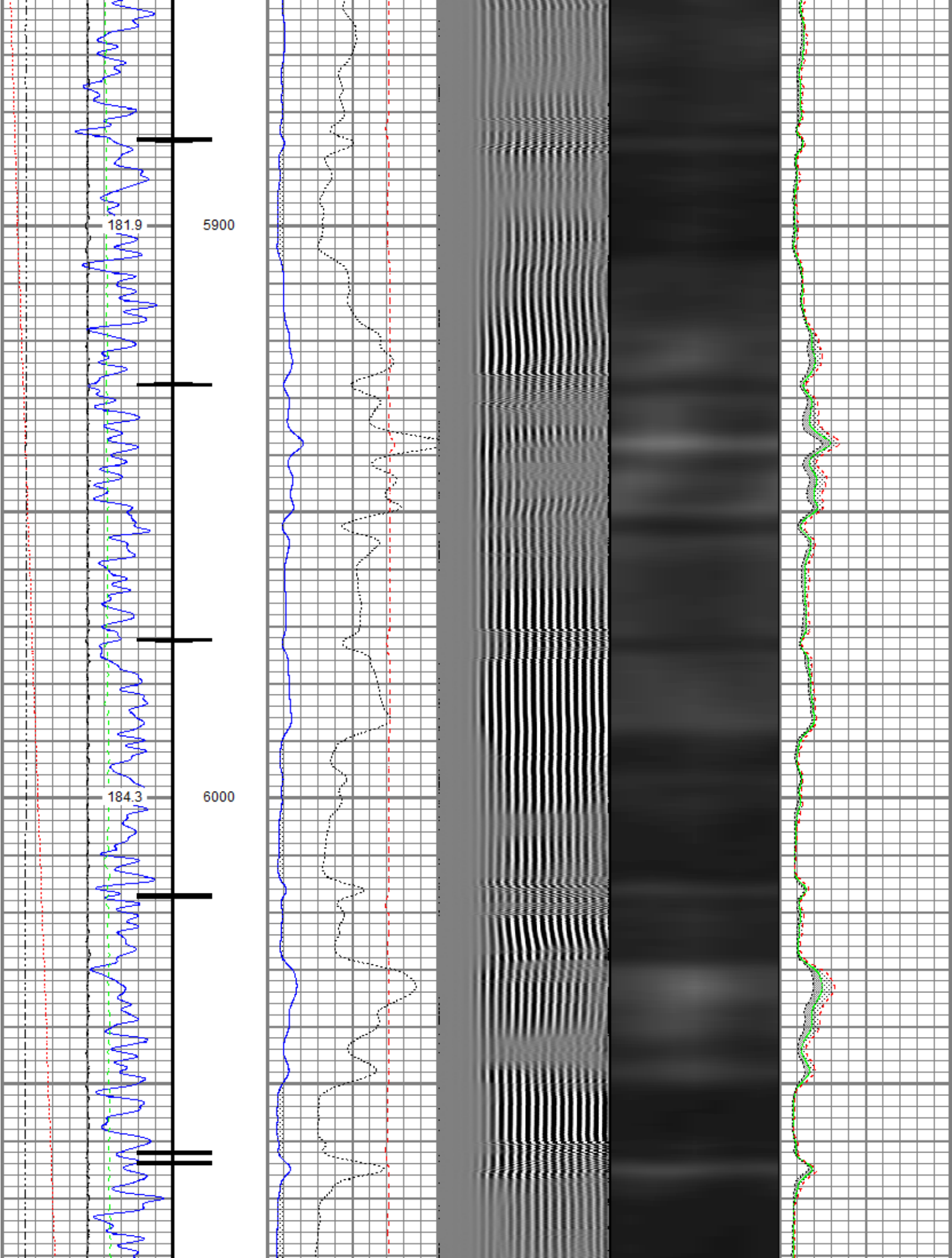




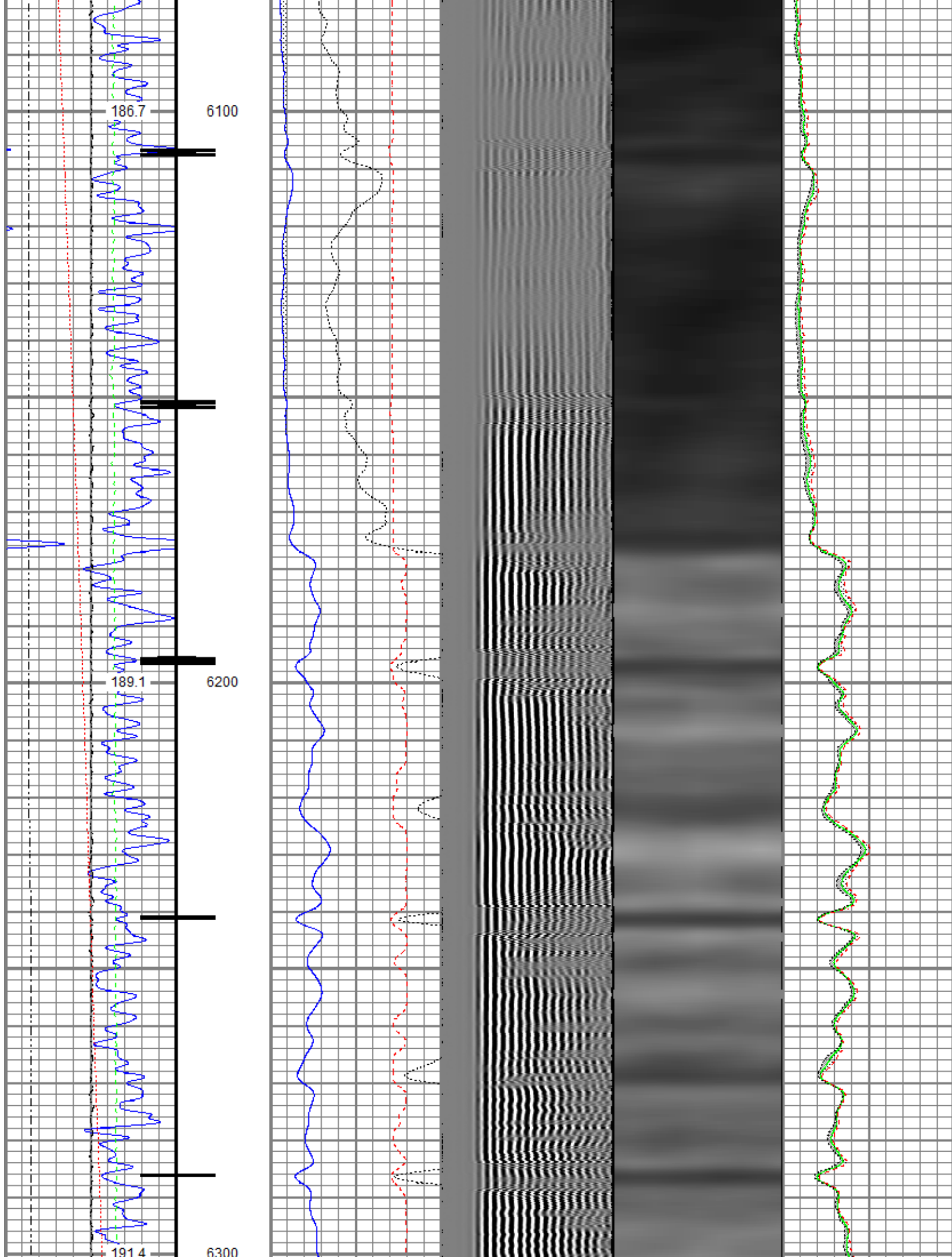


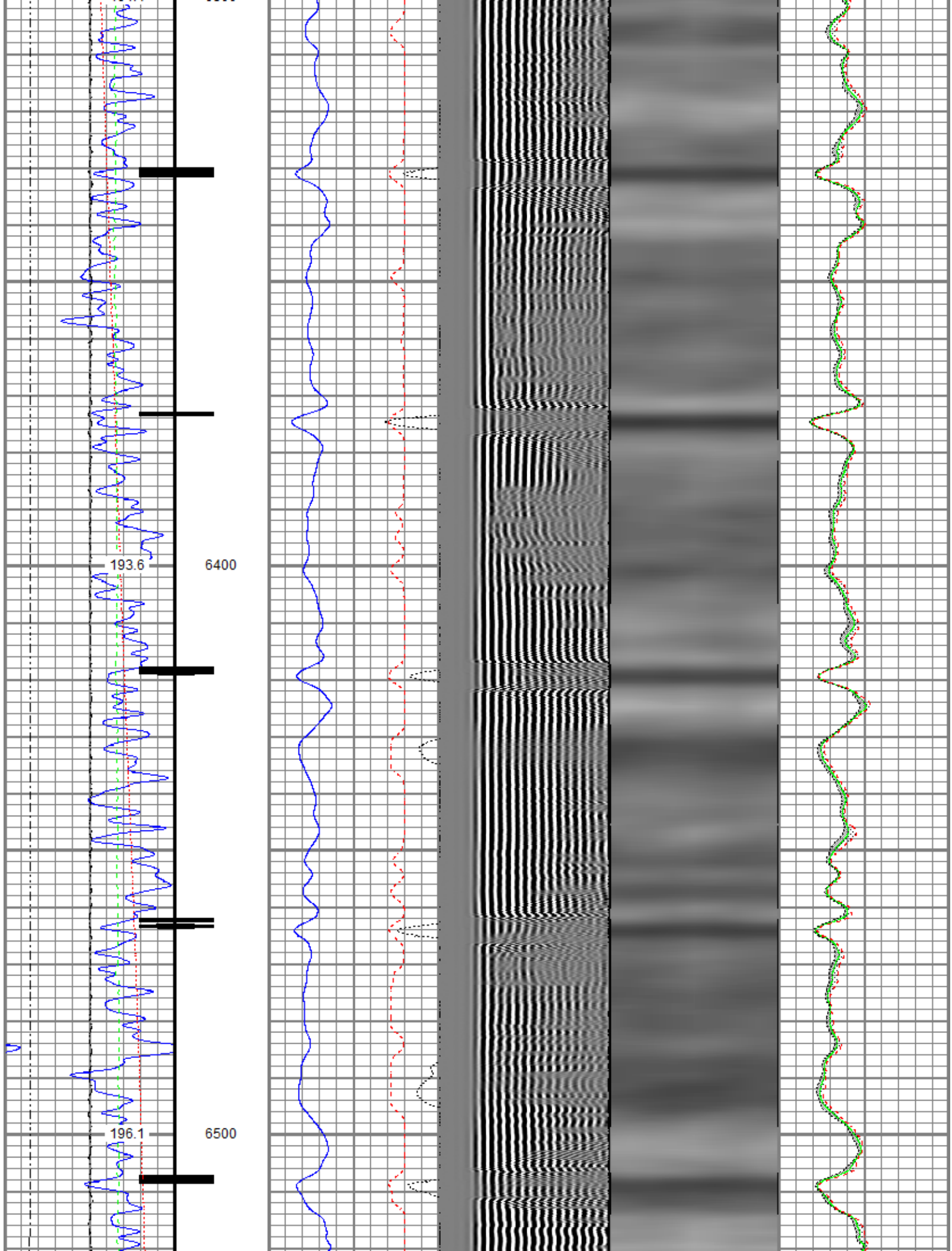


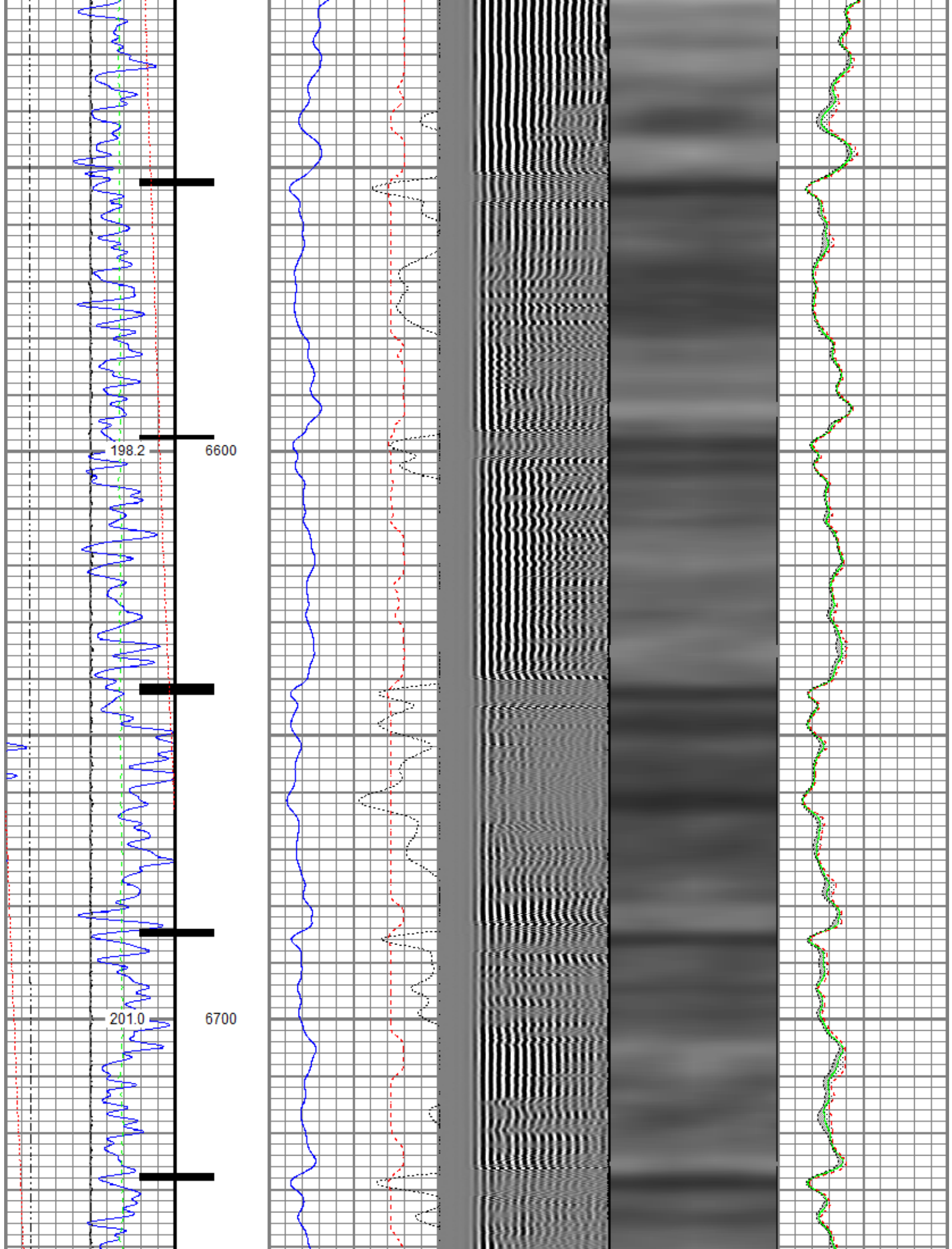




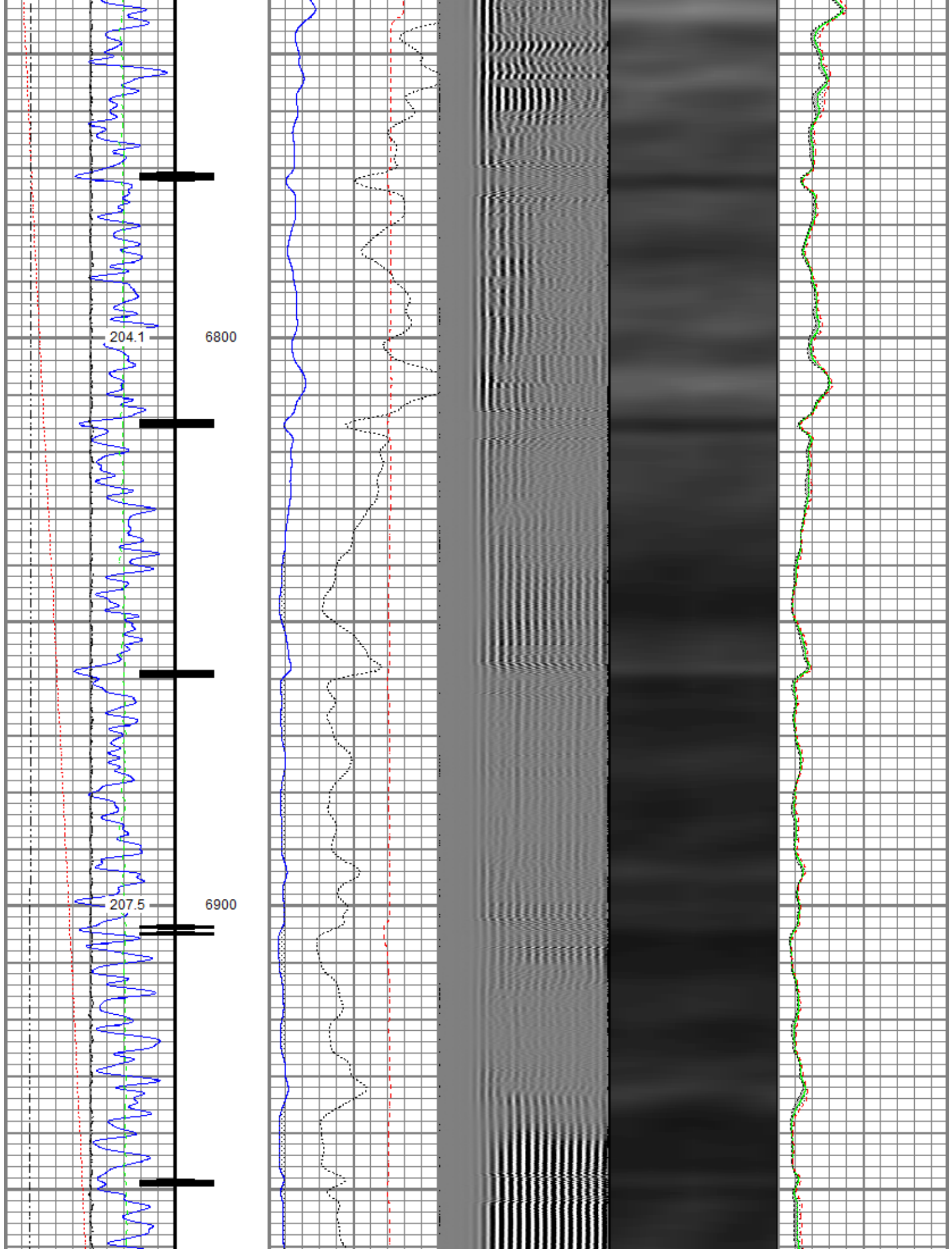


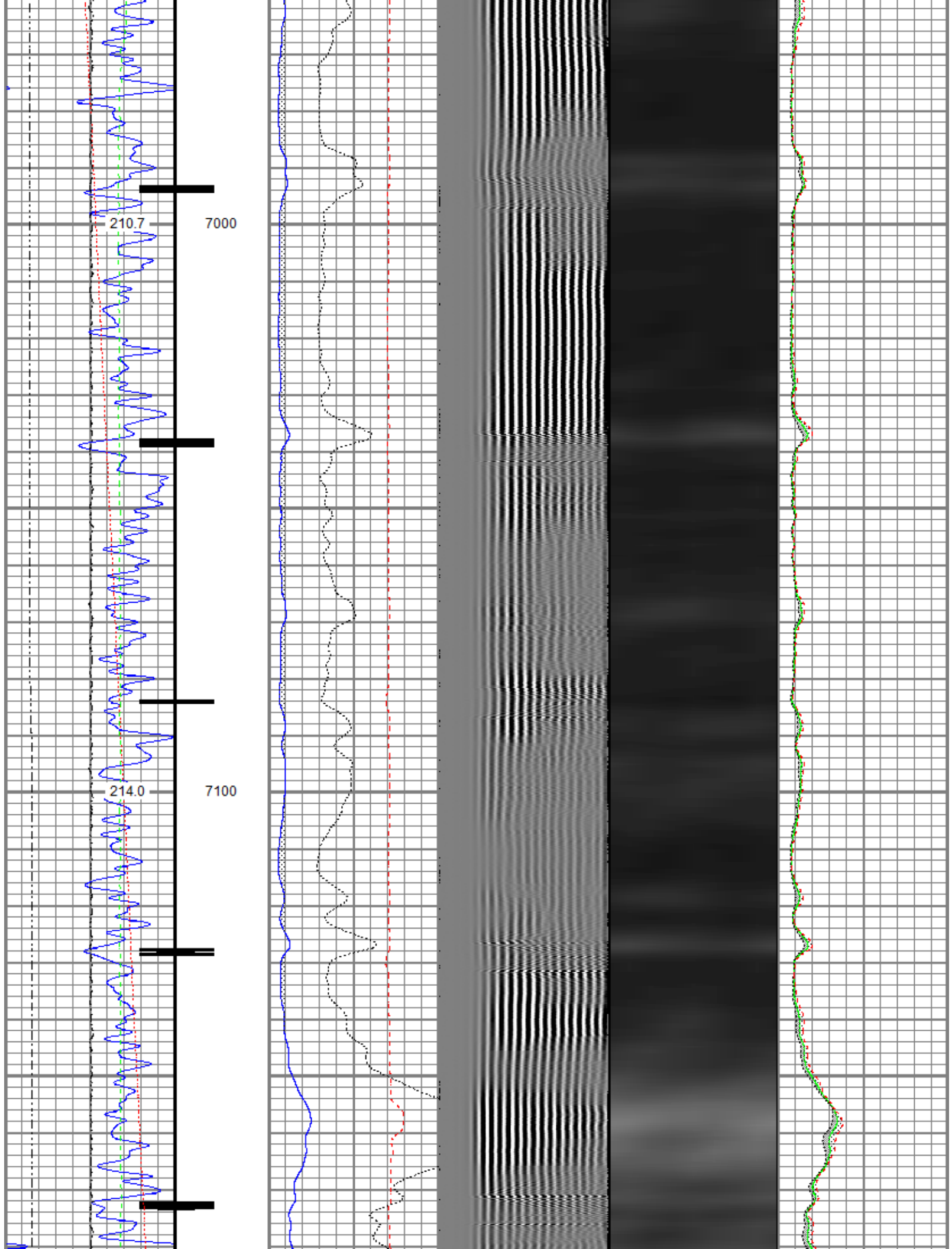


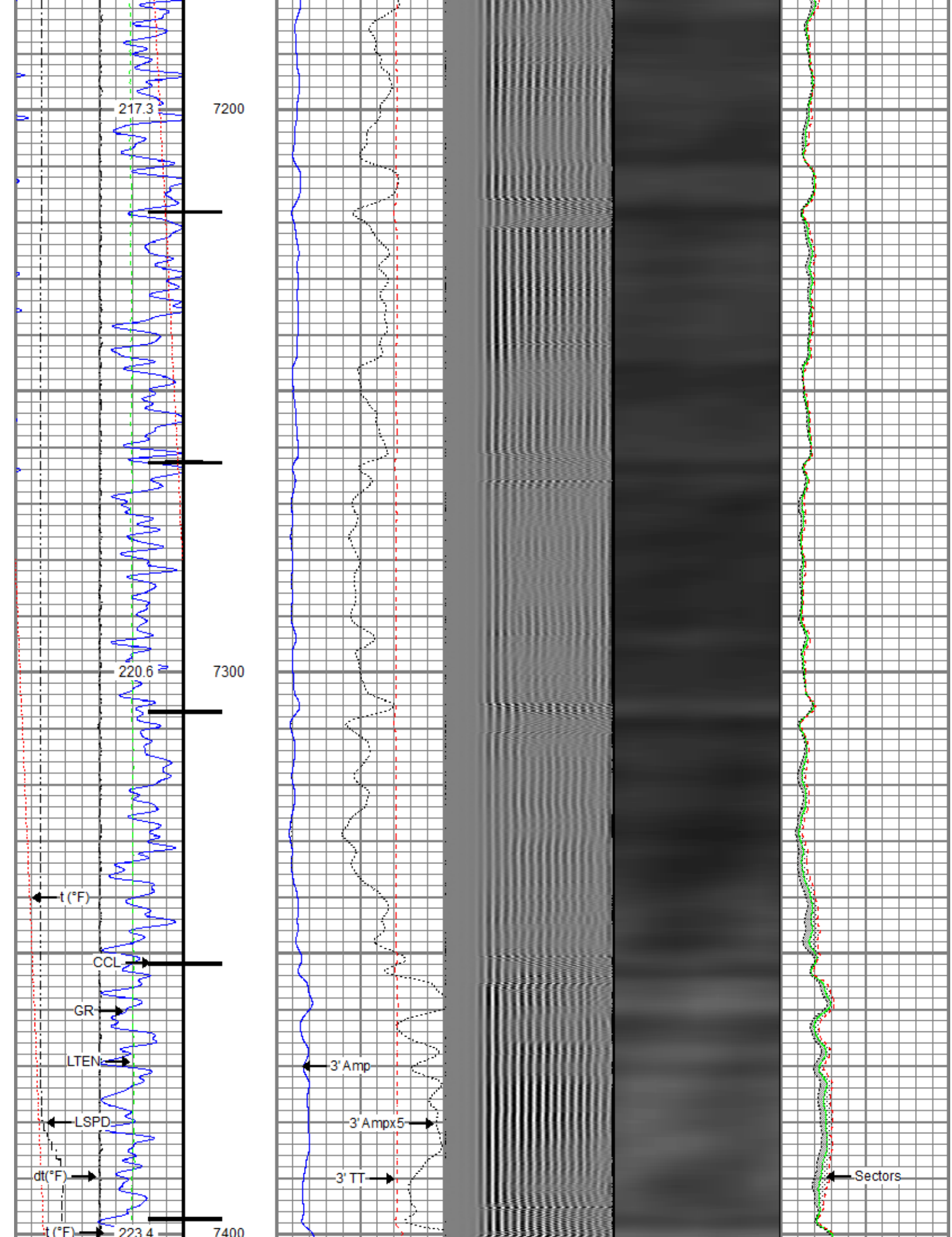














Marker Joint

7500

Gamma Ray

0 (GAPI) 120

Casing Collar Locator

0 Temperature (degF) 20

Line Speed

-150 (ft/min) 150

0 Line Tension (lb) 2000

Differential Temperature

-2 (degF) 2

0 3' Amplitude (mV) 100

3' Amplitude x 5

0 (mV) 20

3' Travel Time

650 (usec) 150

5' Variable Density Log

200 (usec) 1200

Sector Map

0 Average Amplitude 100

Minimum Amplitude

0 100

Maximum Amplitude

0 100



## Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

Database File 0512350635\_oxy\_windsock 21-3hz\_rbl\_03-12-20\0512350635\_oxy\_windsock 21-3hz\_rbl\_03-12-20.db  
 Dataset Pathname run2/pass2.1  
 Presentation Format ros\_radri  
 Dataset Creation Mon Mar 16 10:10:16 2020  
 Charted by Depth in Feet scaled 1:240

Gamma Ray

0 (GAPI) 120

0 Temperature (degF) 20

Line Speed

-150 (ft/min) 150

0 Line Tension (lb) 2000

Differential Temperature

-2 (degF) 2

0 3' Amplitude (mV) 100

3' Amplitude x 5

0 (mV) 20

3' Travel Time

650 (usec) 150

5' Variable Density Log

200 (usec) 1200

Sector Map

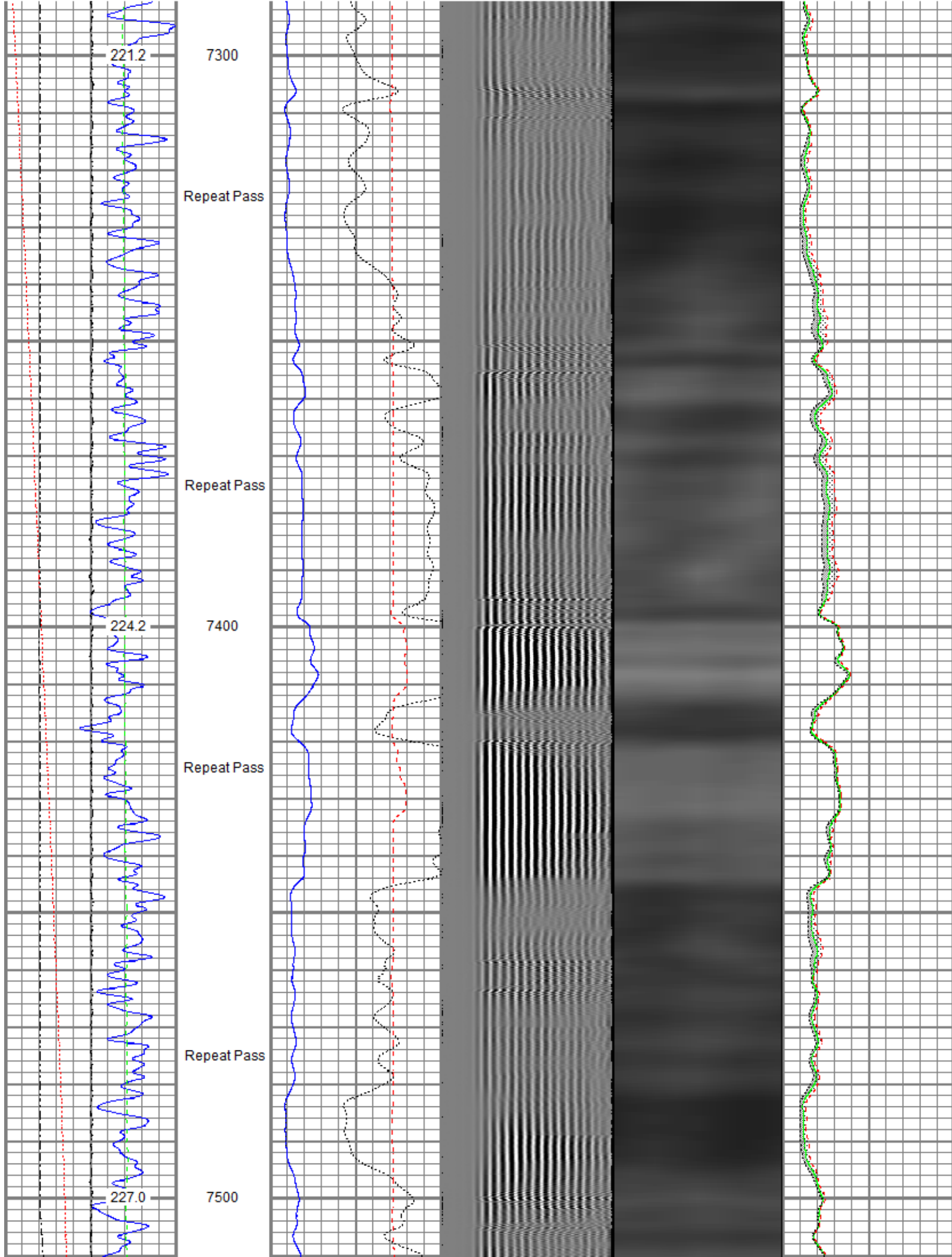
0 Average Amplitude 100

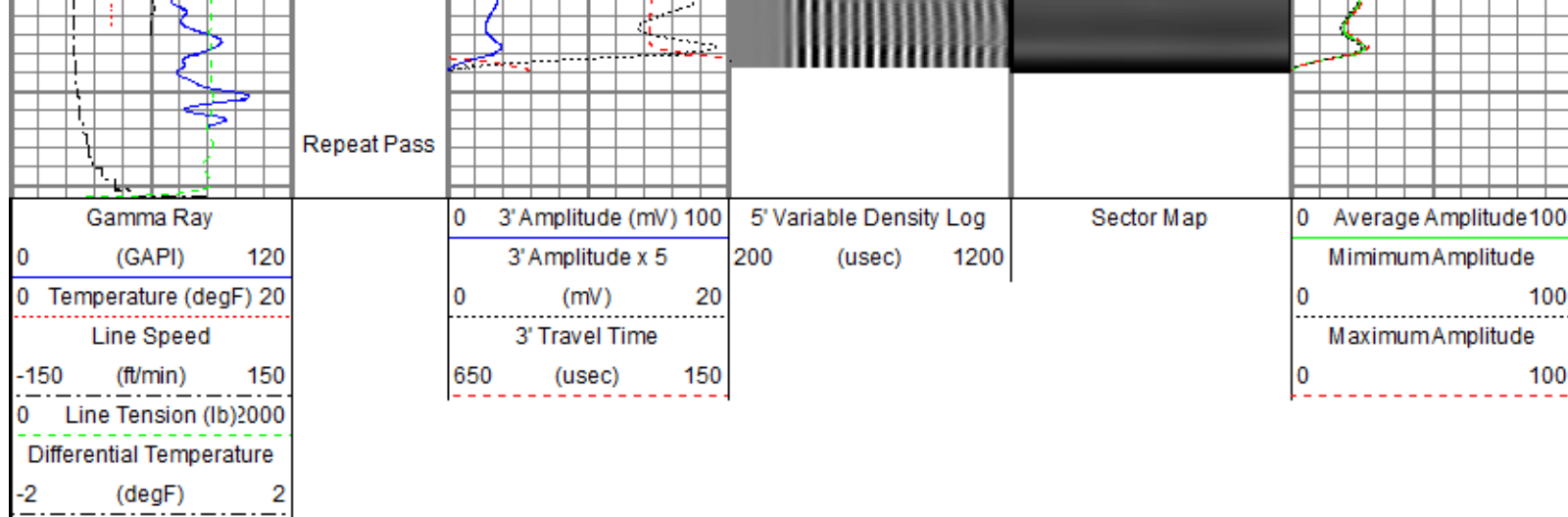
Minimum Amplitude

0 100

Maximum Amplitude

0 100





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head with 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	17.04					
WVFS8	14.81		Probe Radii-2750 RBT (120855) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
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 (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	4.00	2.75	33.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
LOCTIM	0.00					
UTCTIM	0.00					
Dataset: 0512350635_oxy_windsock 21-3hz_rbl_03-12-20.db: field/well/run2/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\0512350635_oxy_windsock 21-3hz_rbl_03-12-20\0512350635_oxy_windsock 21-3hz_rbl_03-12-20					
Dataset Pathname	run2/pass4.2					
Dataset Creation	Mon Mar 16 07:44:16 2020					
Gamma Ray Calibration Report						
Serial Number:	101001					
Tool Model:	2750 6PB					
Performed:	Tue Dec 03 09:24:53 2019					
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:	120855					
Tool Model:	2750 RBT					
Calibration Casing Diameter:	5.500	in				
Calibration Depth:	-11.604	ft				
Master Calibration, performed (Derived):						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.393	0.000	71.921	182.935	-0.031
CAL	0.004	0.396				
5'	0.000	0.369	0.000	71.921	194.893	-0.039
SUM						
S1	-0.000	0.386	0.000	100.000	259.000	0.036
S2	-0.000	0.397	0.000	100.000	251.618	0.029
S3	-0.000	0.409	0.000	100.000	244.474	0.032
S4	-0.000	0.409	0.000	100.000	244.228	0.019
S5	-0.000	0.398	0.000	100.000	251.237	0.003
S6	-0.000	0.393	0.000	100.000	254.100	0.032
S7	0.000	0.390	0.000	100.000	256.399	-0.011
S8	-0.000	0.386	0.000	100.000	259.182	0.006
Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	

	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.396	1.000	0.000

Air Zero Calibration, performed Fri Mar 13 06:57:48 2020:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.004	0.000	0.000
5'	0.004	0.000	0.000
SUM			
S1	0.004	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: 120855  
Tool Model: 2750 RBT  
Performed: Wed Dec 18 13:34:18 2019

	Reference	Reading
Low Reference:	100.00 degF	112.30 degF
High Reference:	350.00 degF	394.75 degF

Gain: 0.89  
Offset: 0.60  
Delta Spacing 1



**Company** Kerr-McGee Oil & Gas Onshore, L.P.  
**Well** Windsock 21-3HZ  
**Field** Wattenberg  
**County** Weld  
**State** Colorado