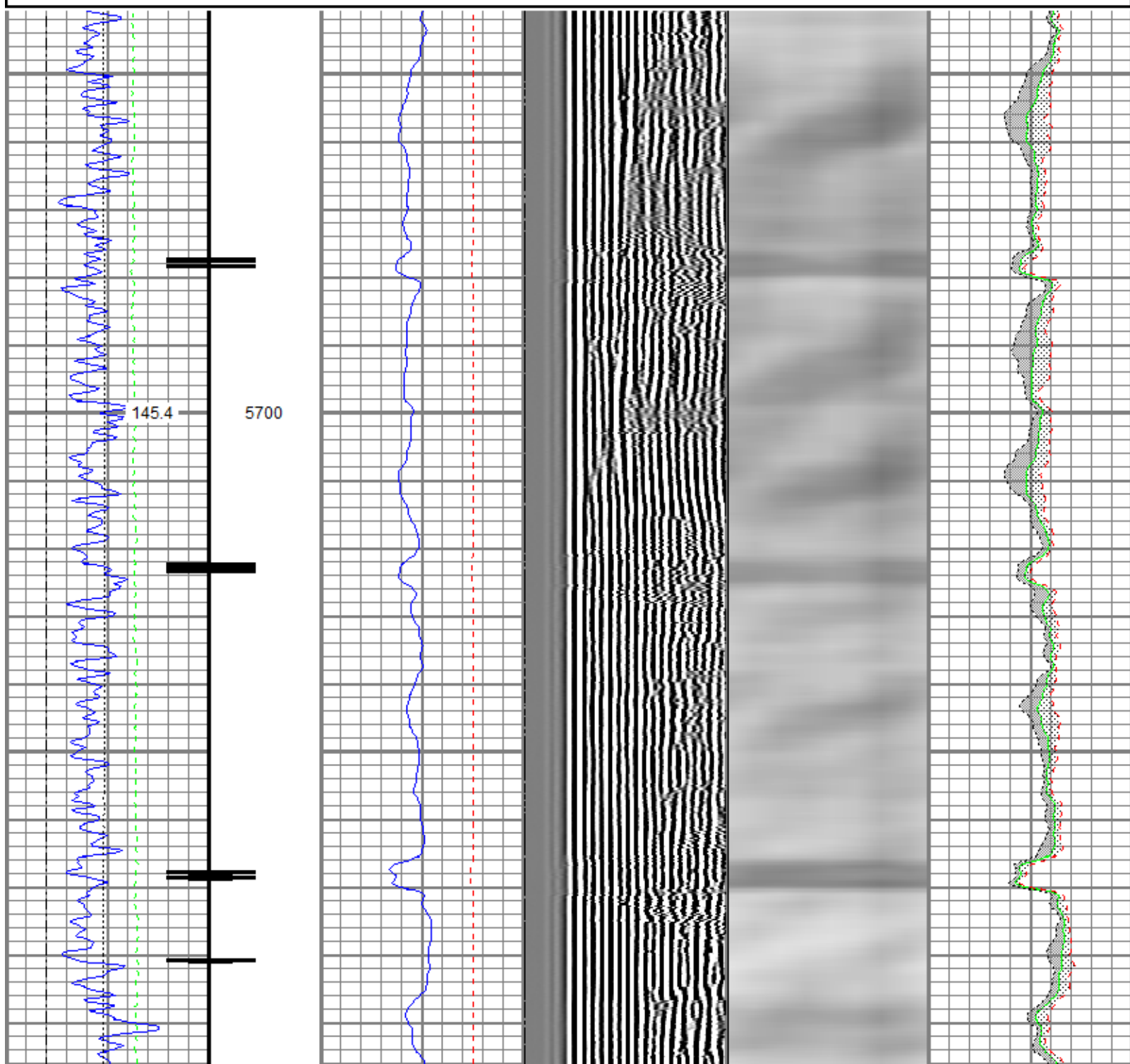


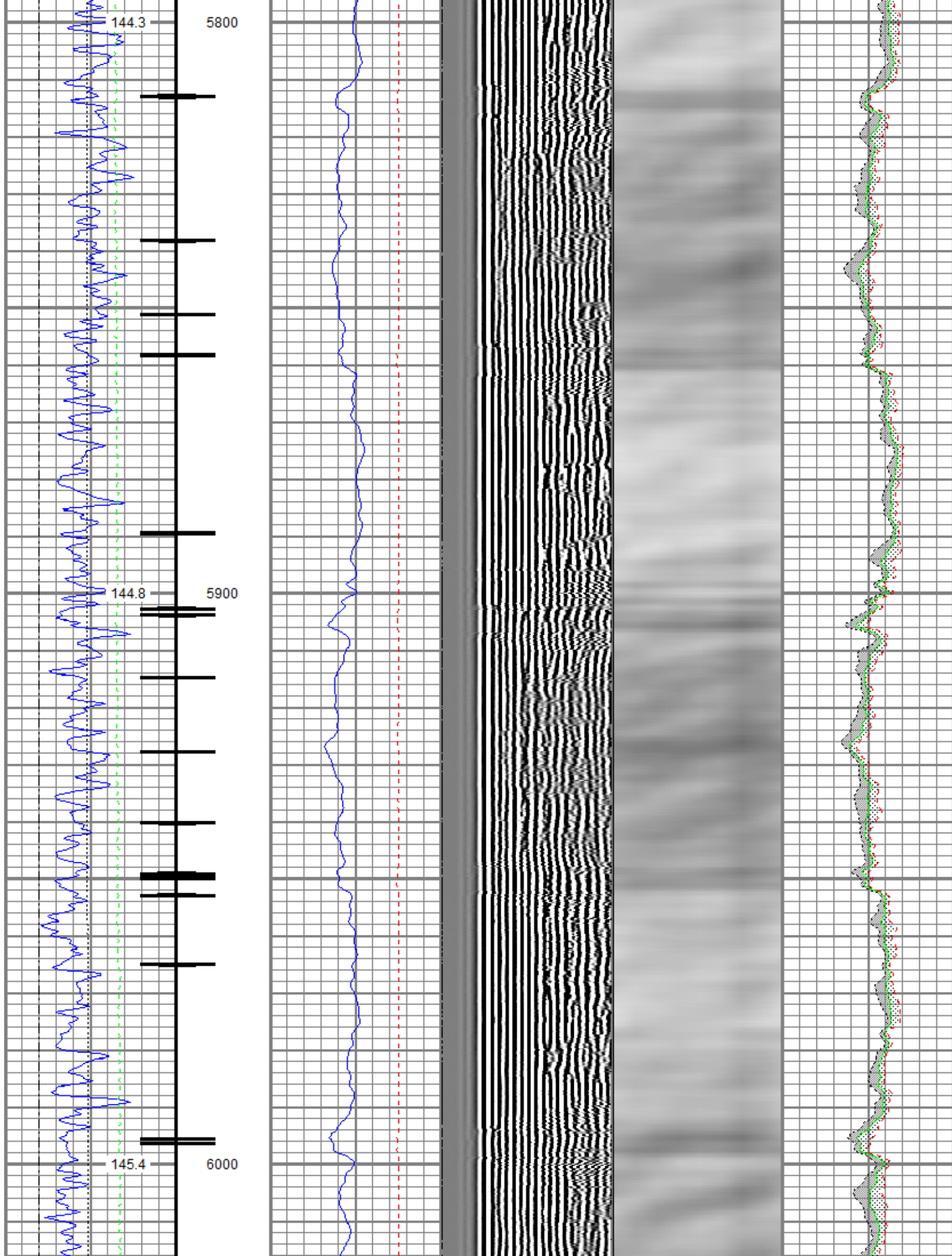


<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
<p>Log ran as per Customer request. Depth reference to Kelly Bushing reported at 28.5 FT above ground level. Log ran from as deep as possible to surface. Log ran with 2750 PSI Pressure. Depth Corrected -4 FT.</p> <p>Thank you for choosing FMC Technologies Completion Services, Inc.!!</p>

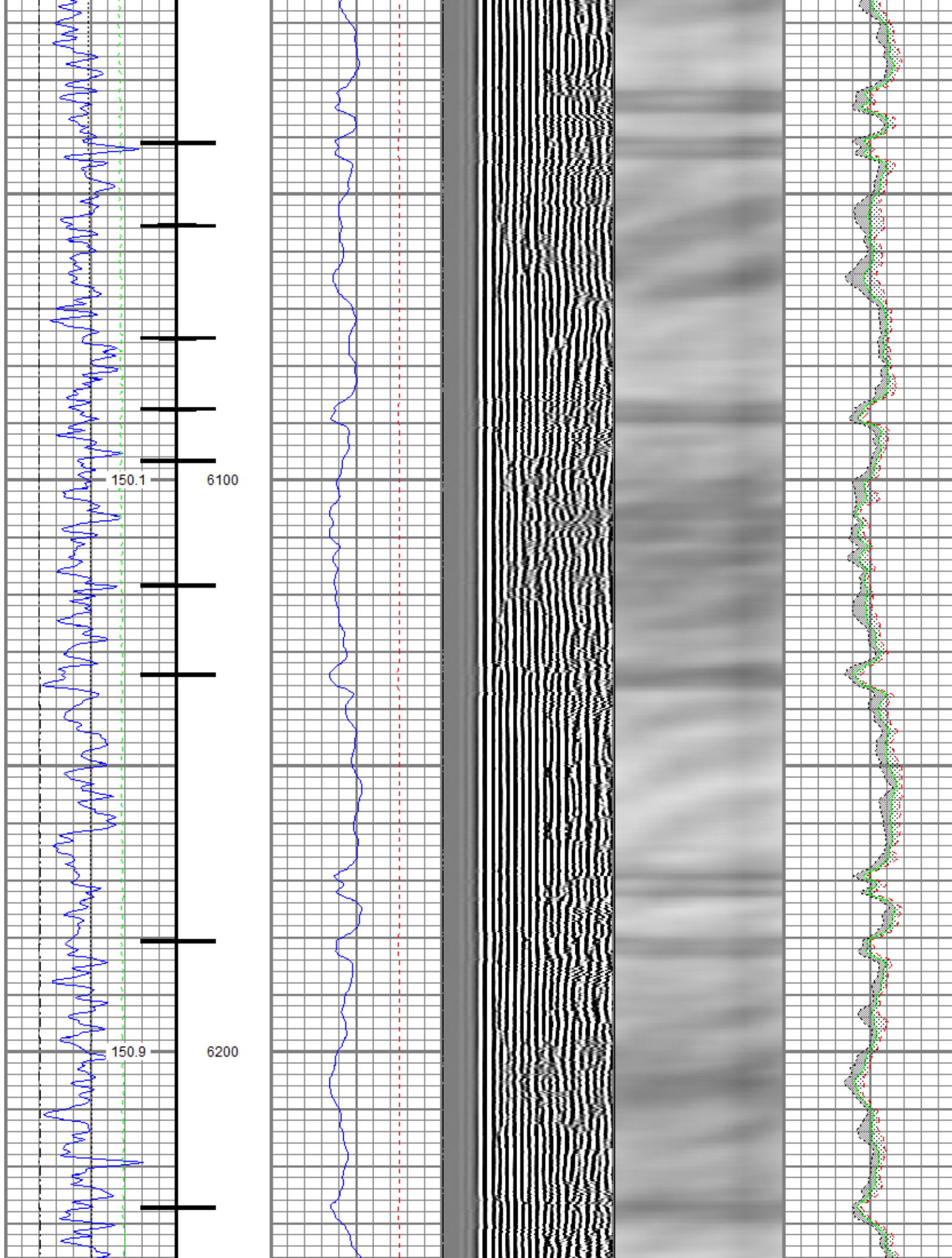
Database File: encana\_edithannduckworth4a-21h-0268cbl\_27-sept-2014.db  
 Dataset Pathname: main  
 Presentation Format: radii  
 Dataset Creation: Sat Sep 27 15:42:11 2014 by Log SCH 111116  
 Charted by: Depth in Feet scaled 1:240

Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI)	120	3' Amplitude x 5	200	1200	0	Minimum Amplitude
Casing Collar Locator		(mV)				100
Temperature		3' Travel Time				Maximum Amplitude
(degF)	300	(usec)				100
Line Speed						
(ft/min)	150					
Line Tension (lb)	2000					

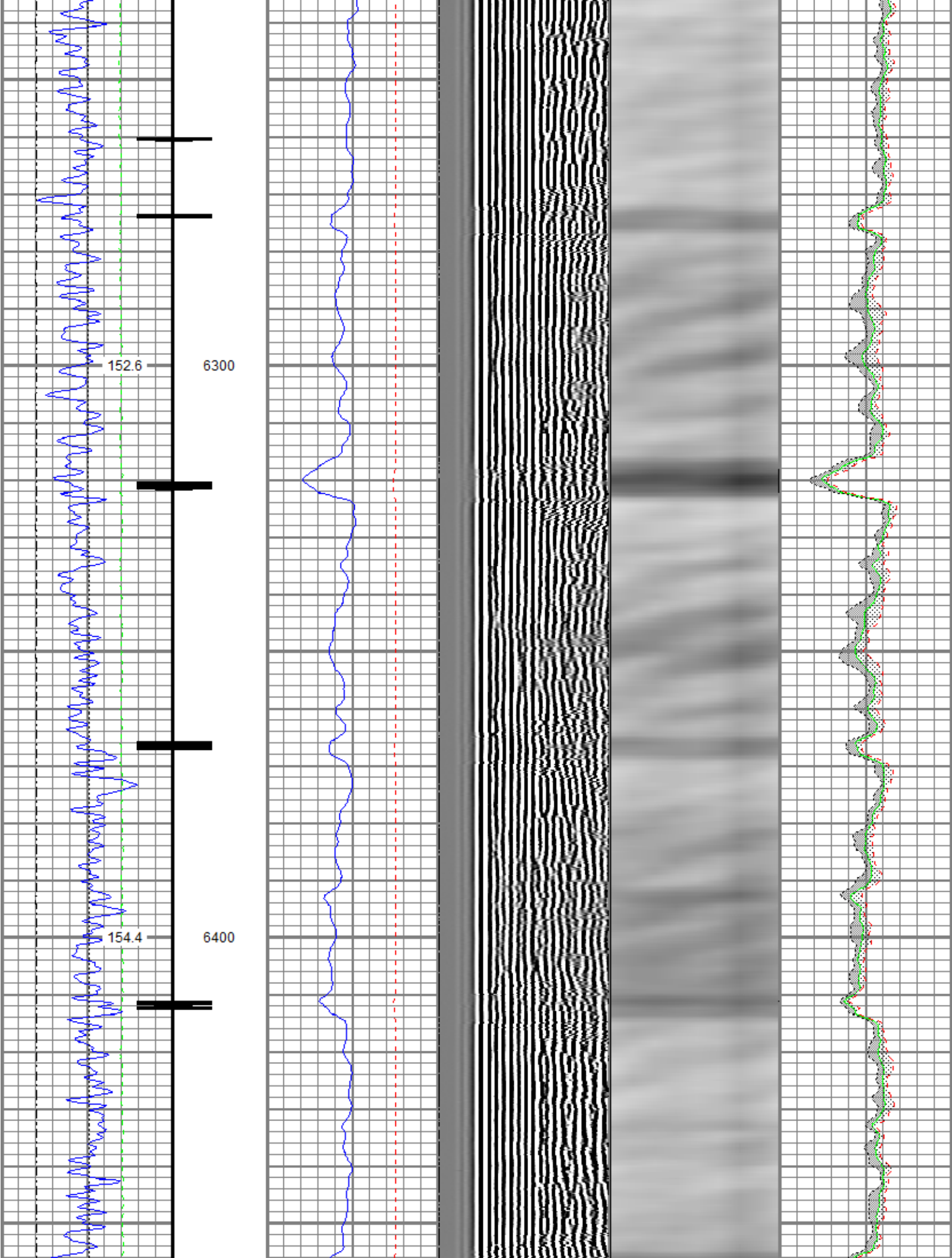


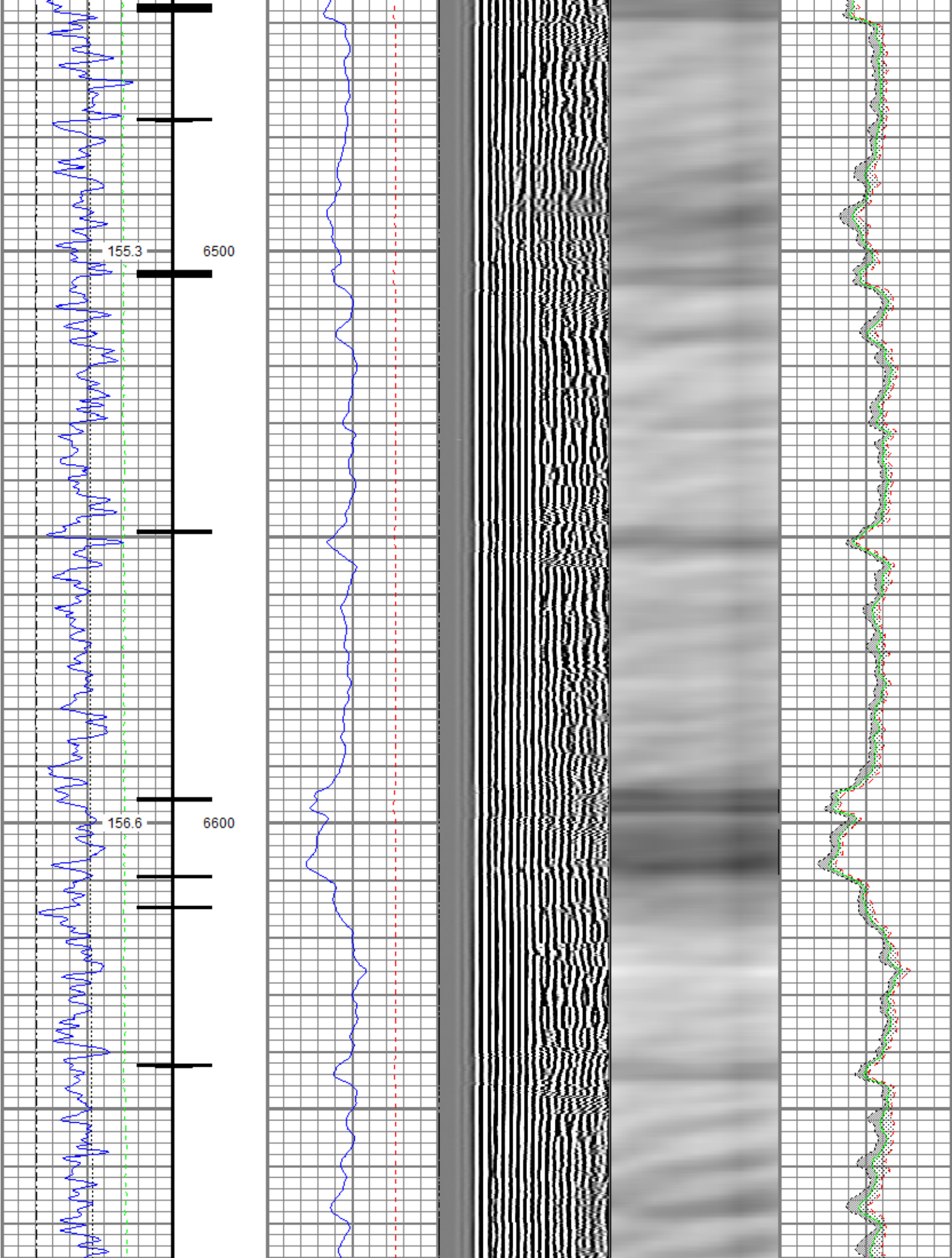


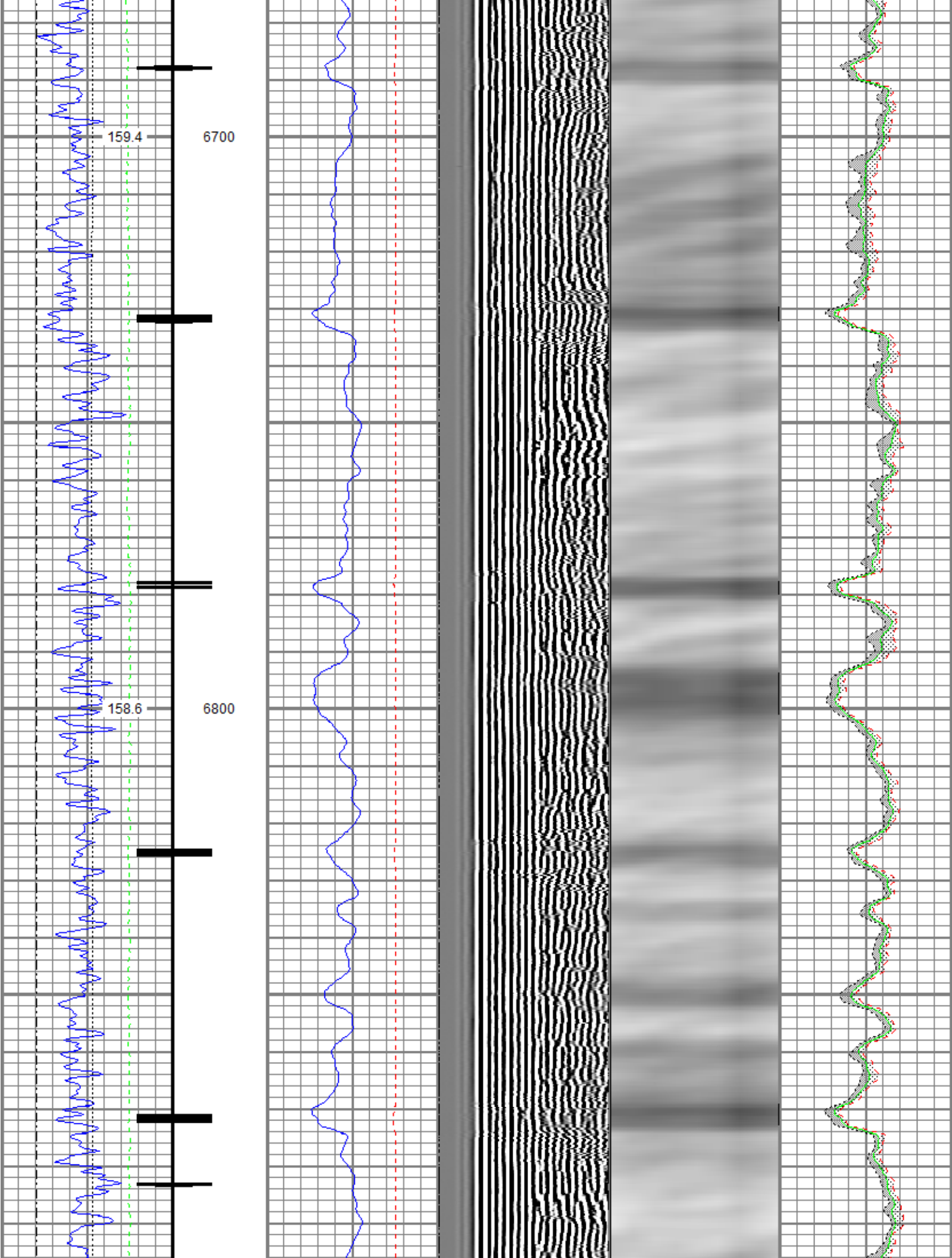




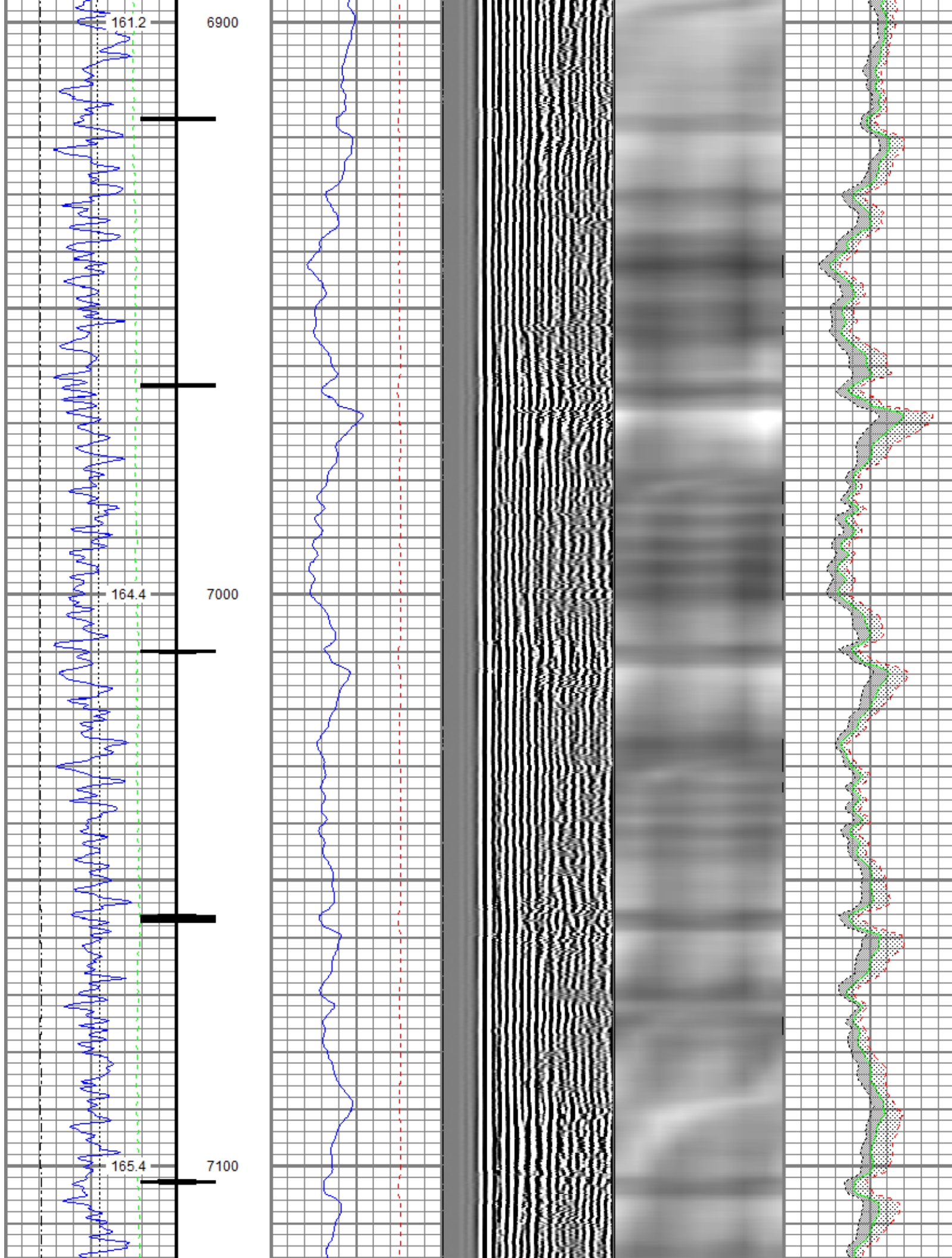


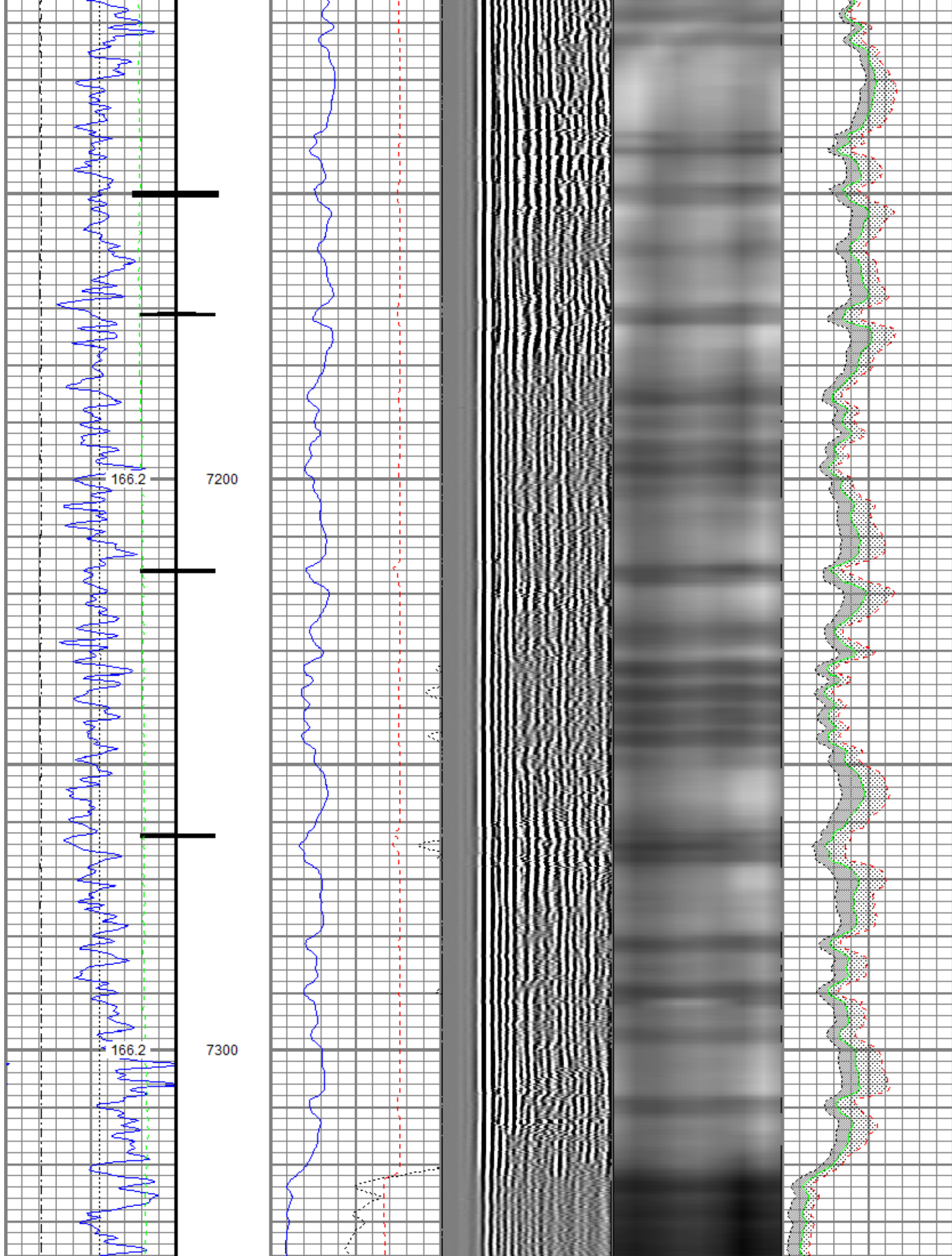




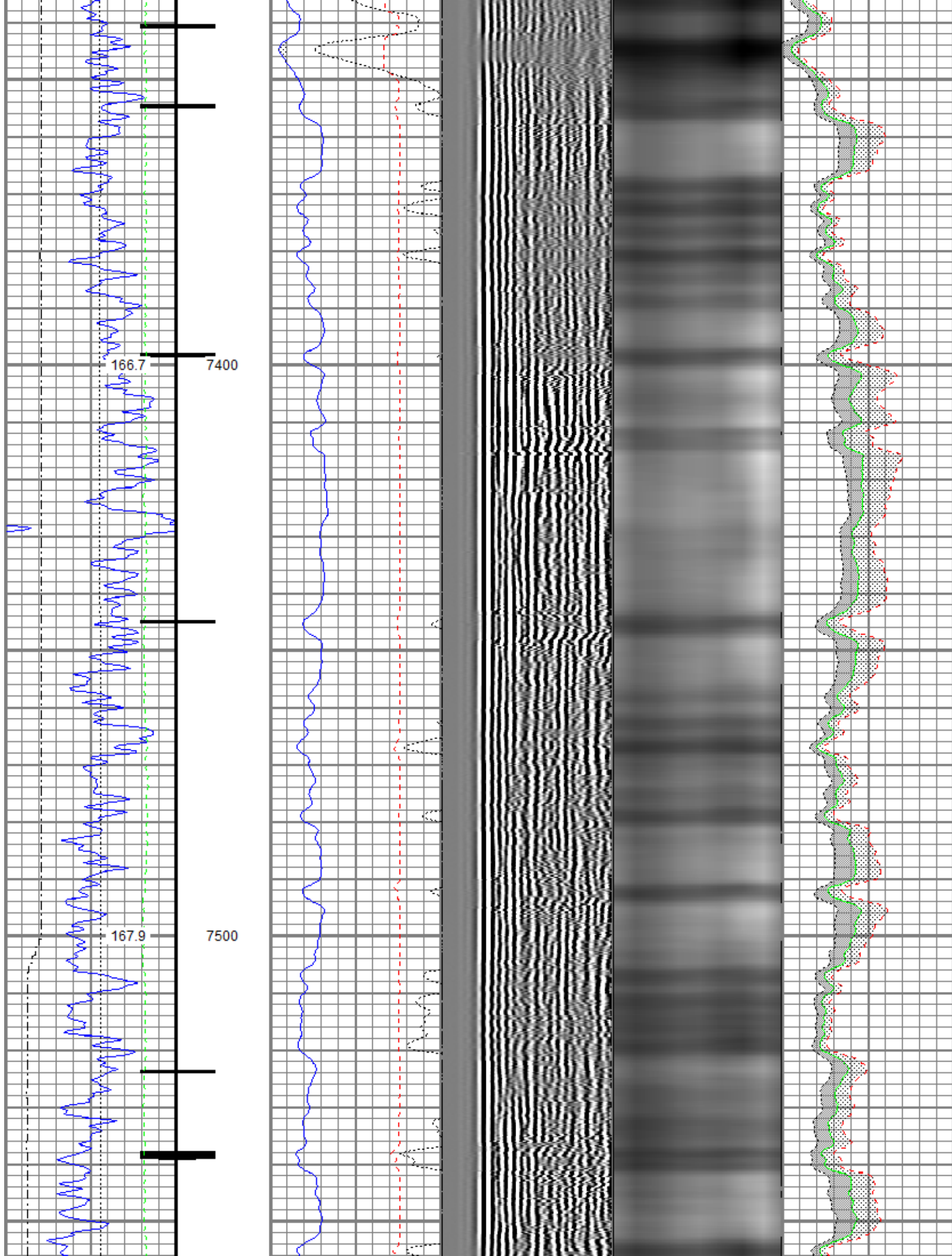




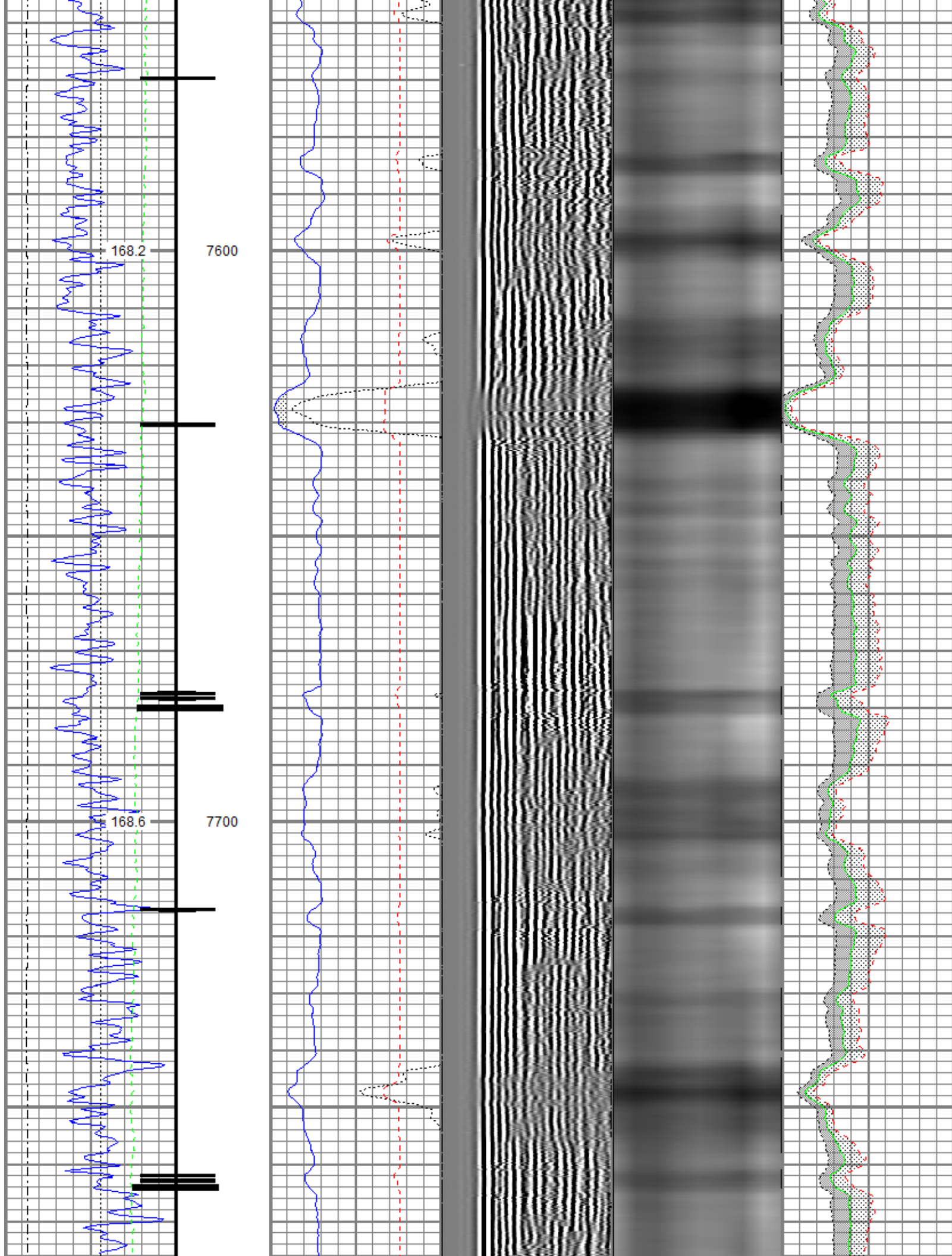


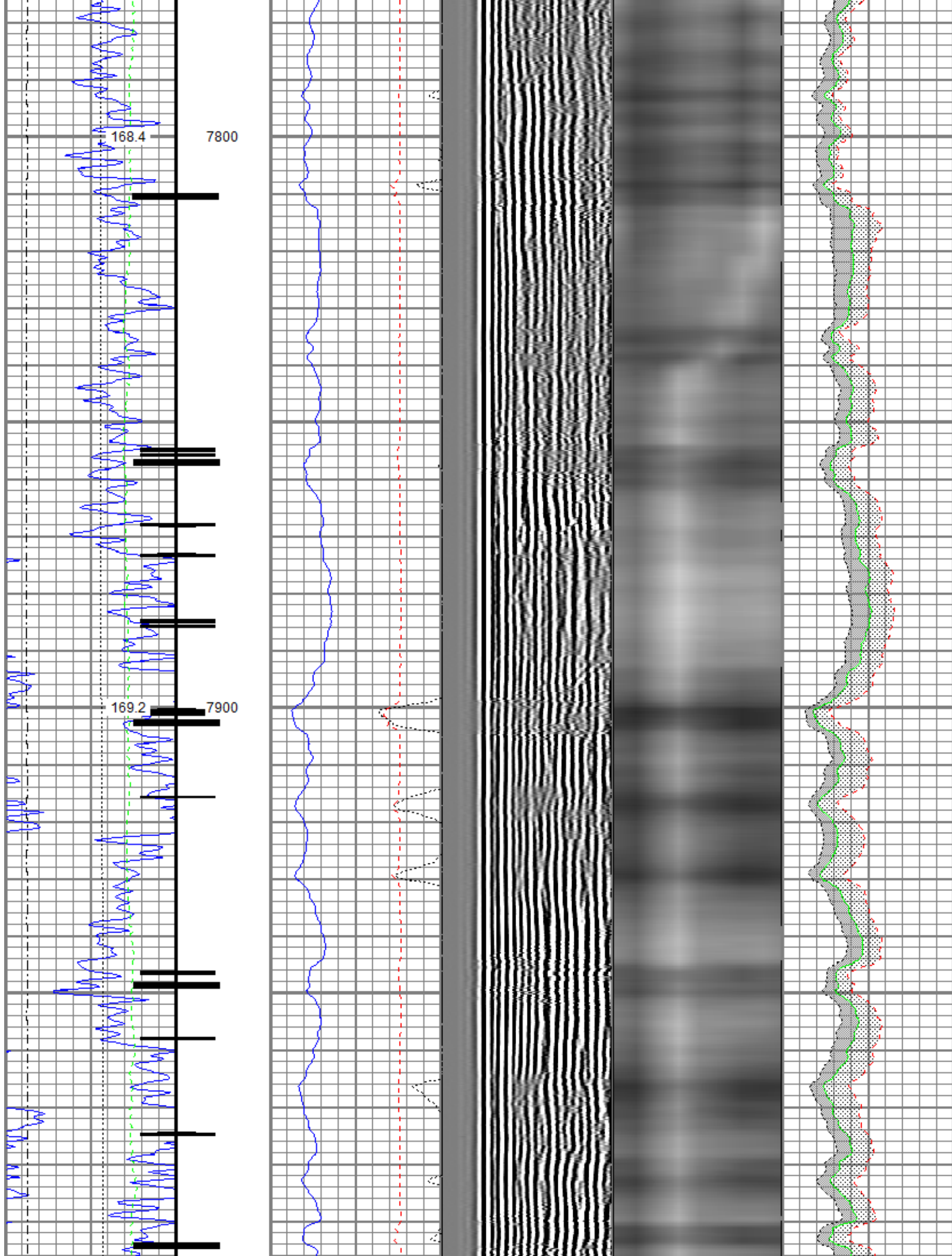




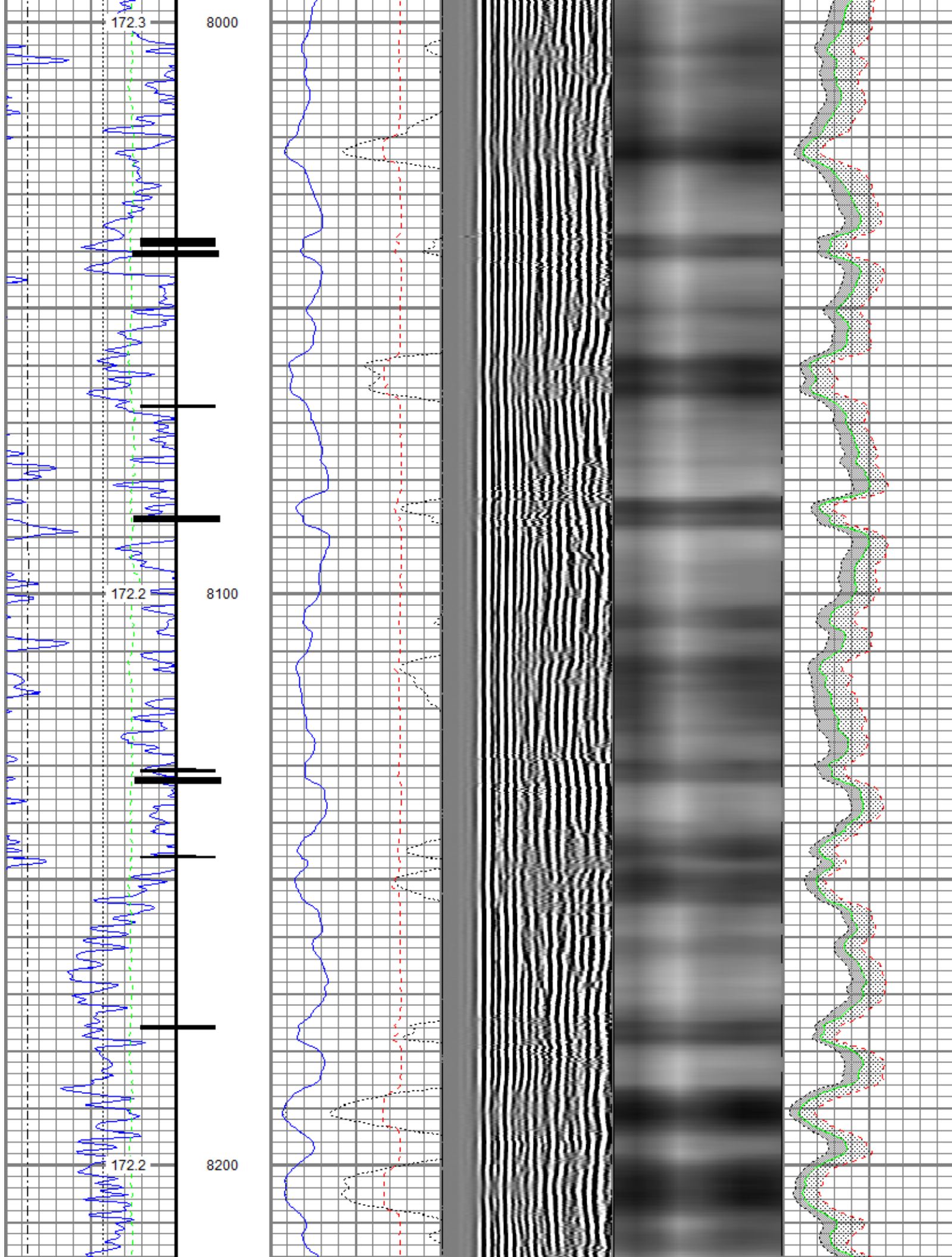




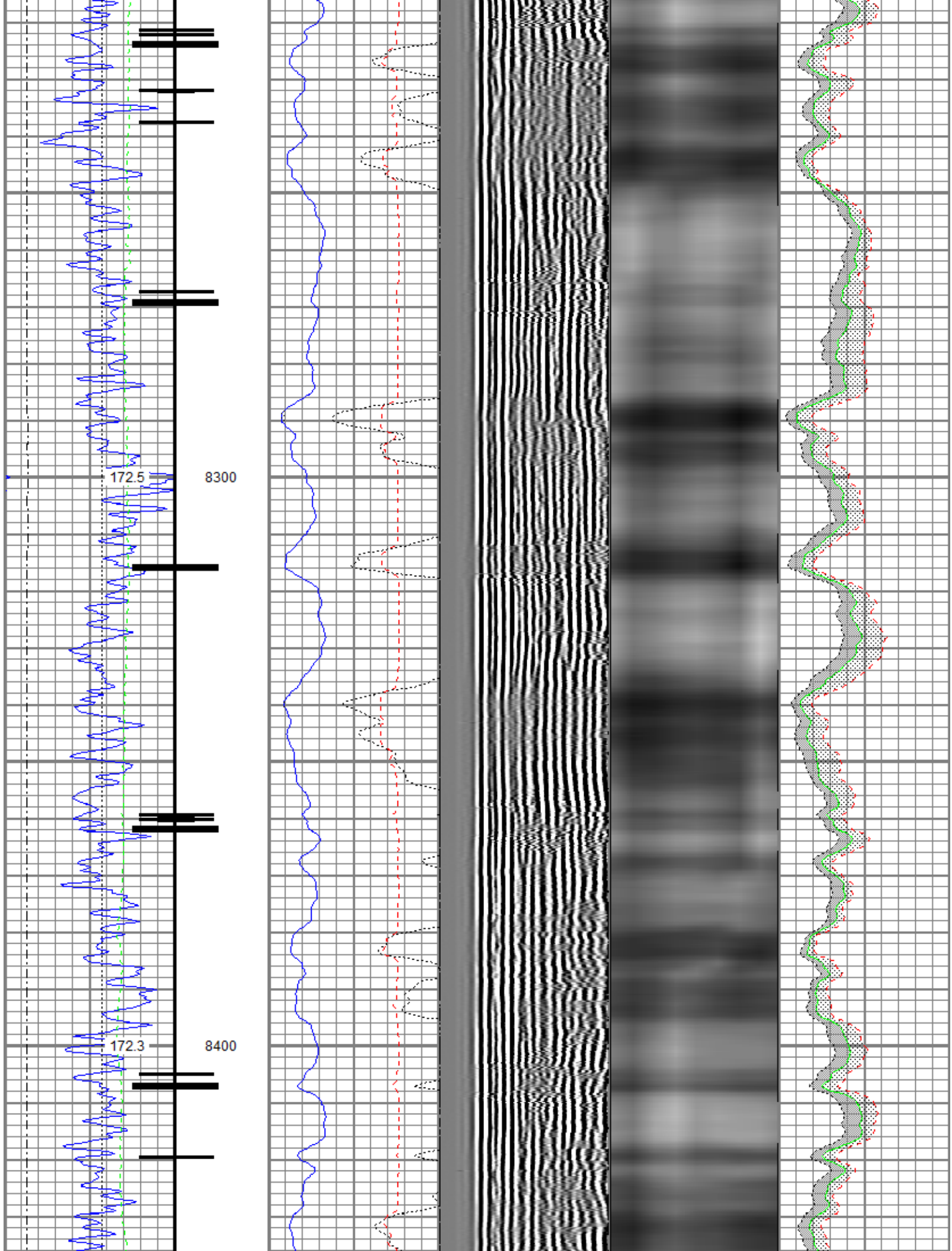


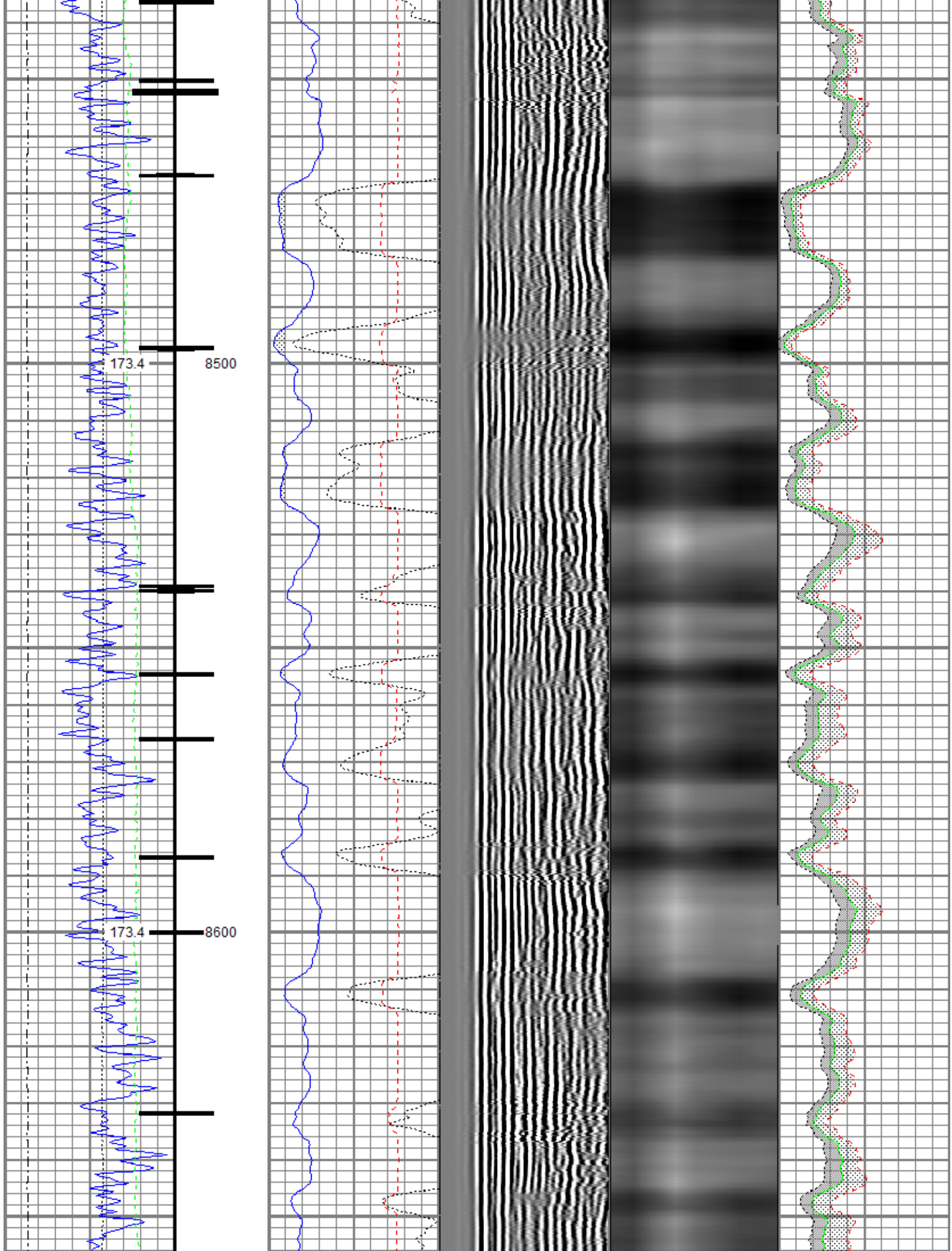


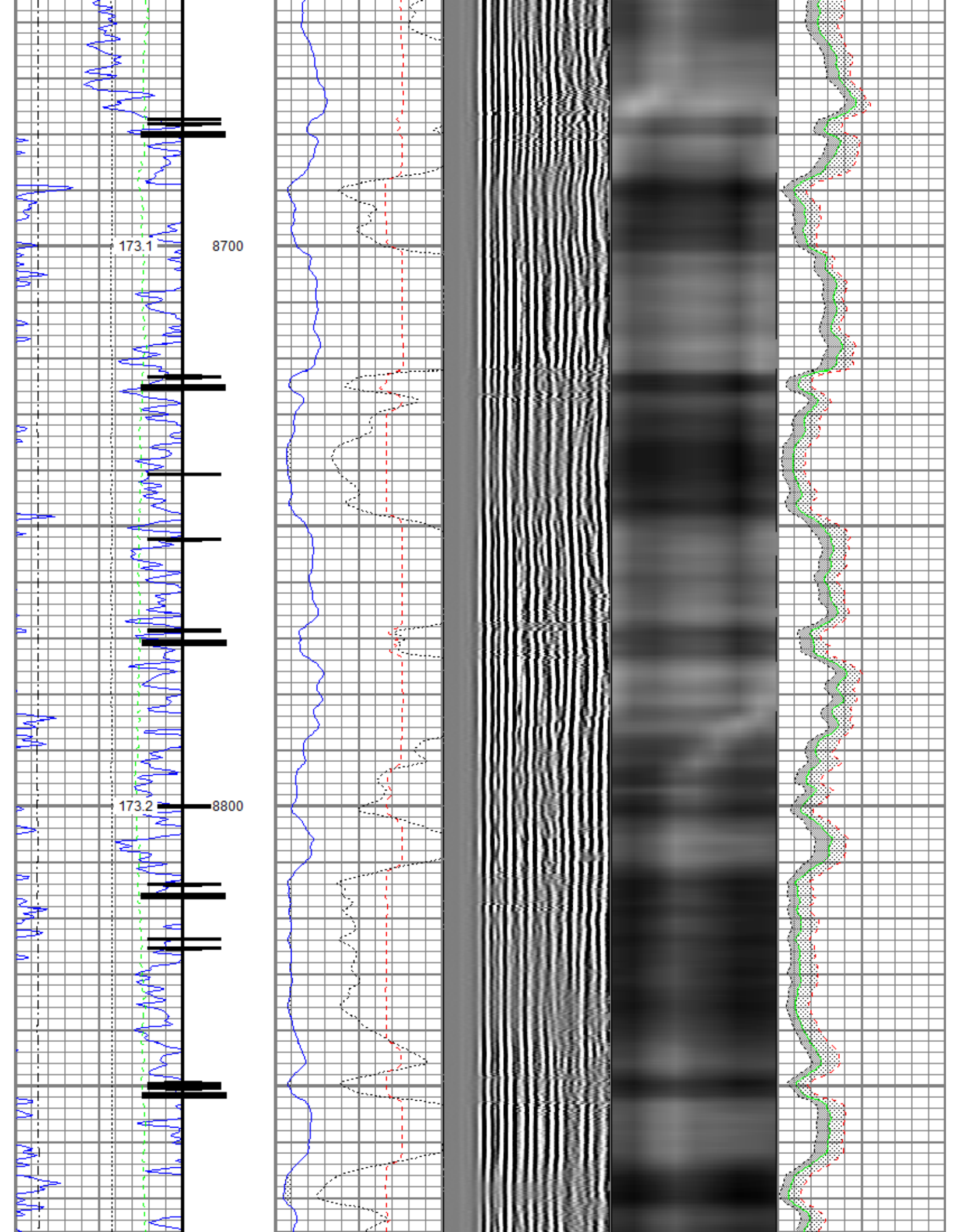




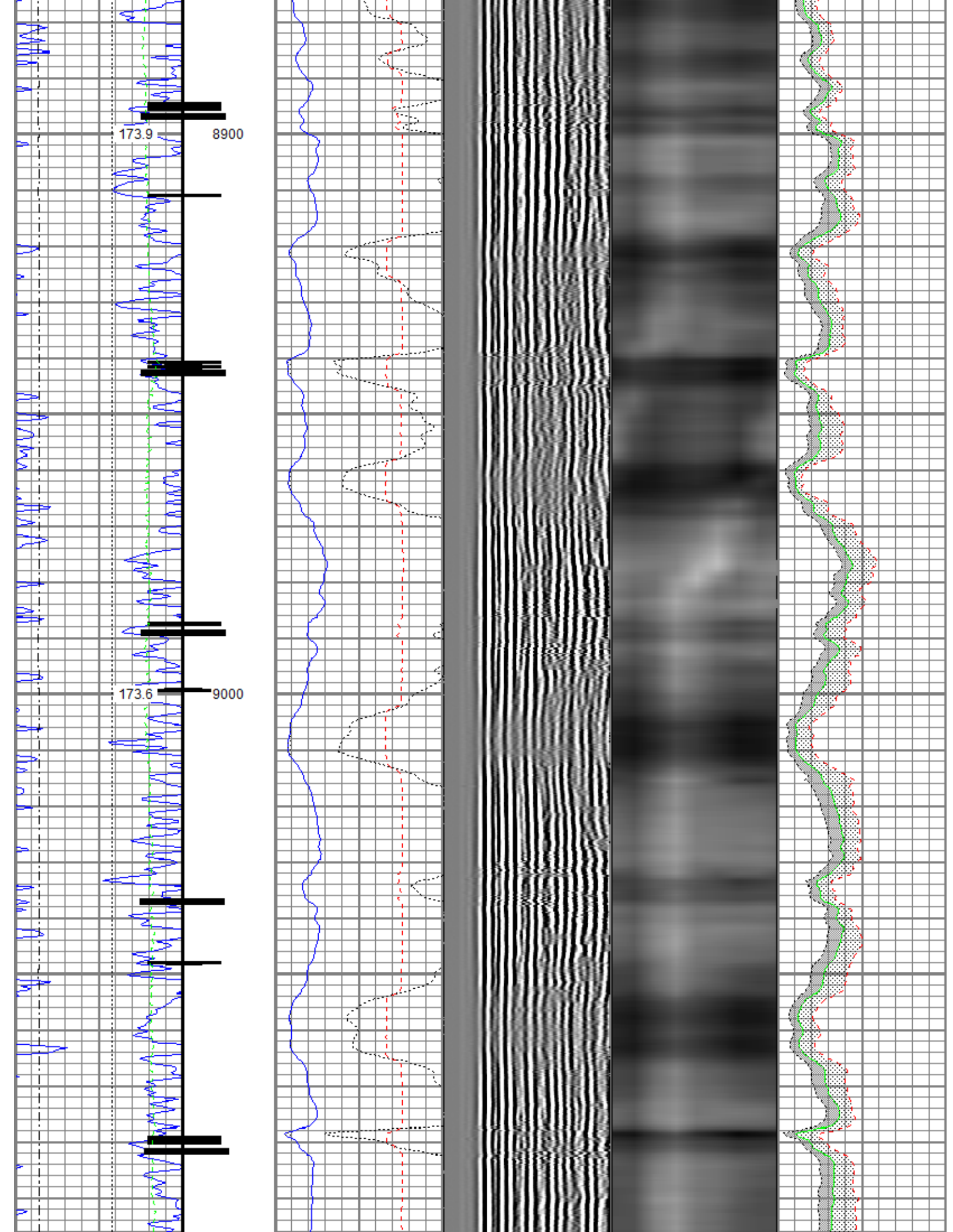


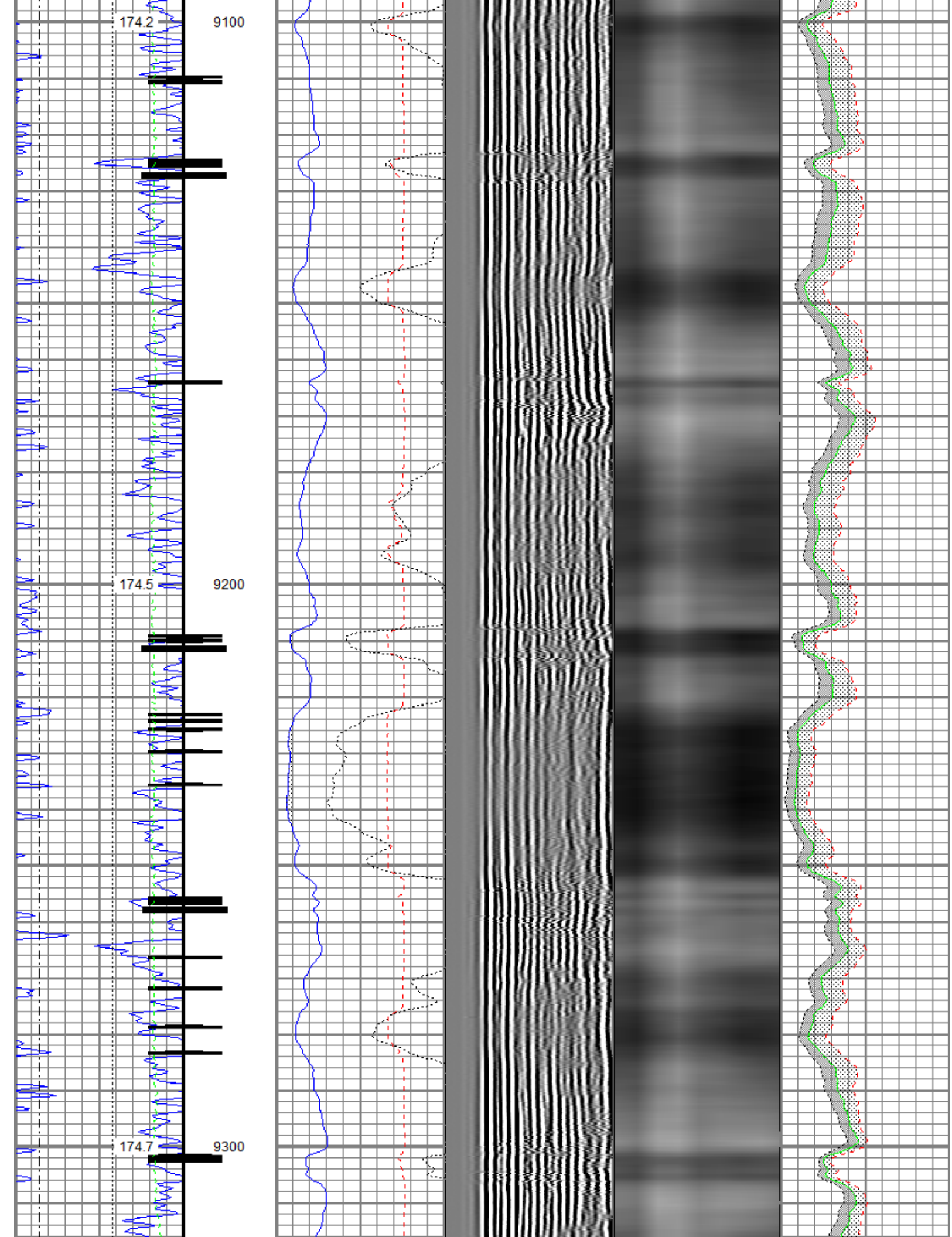


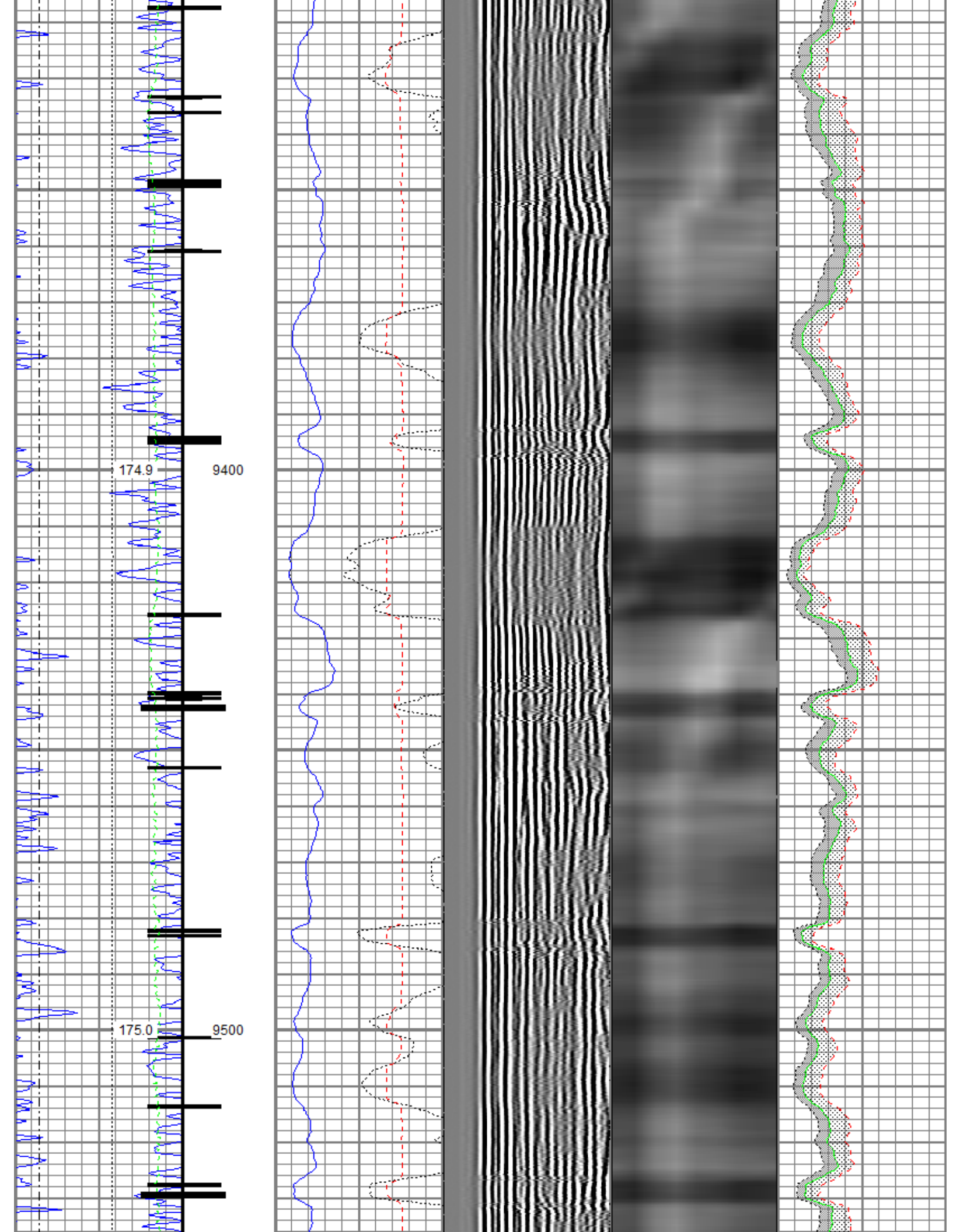




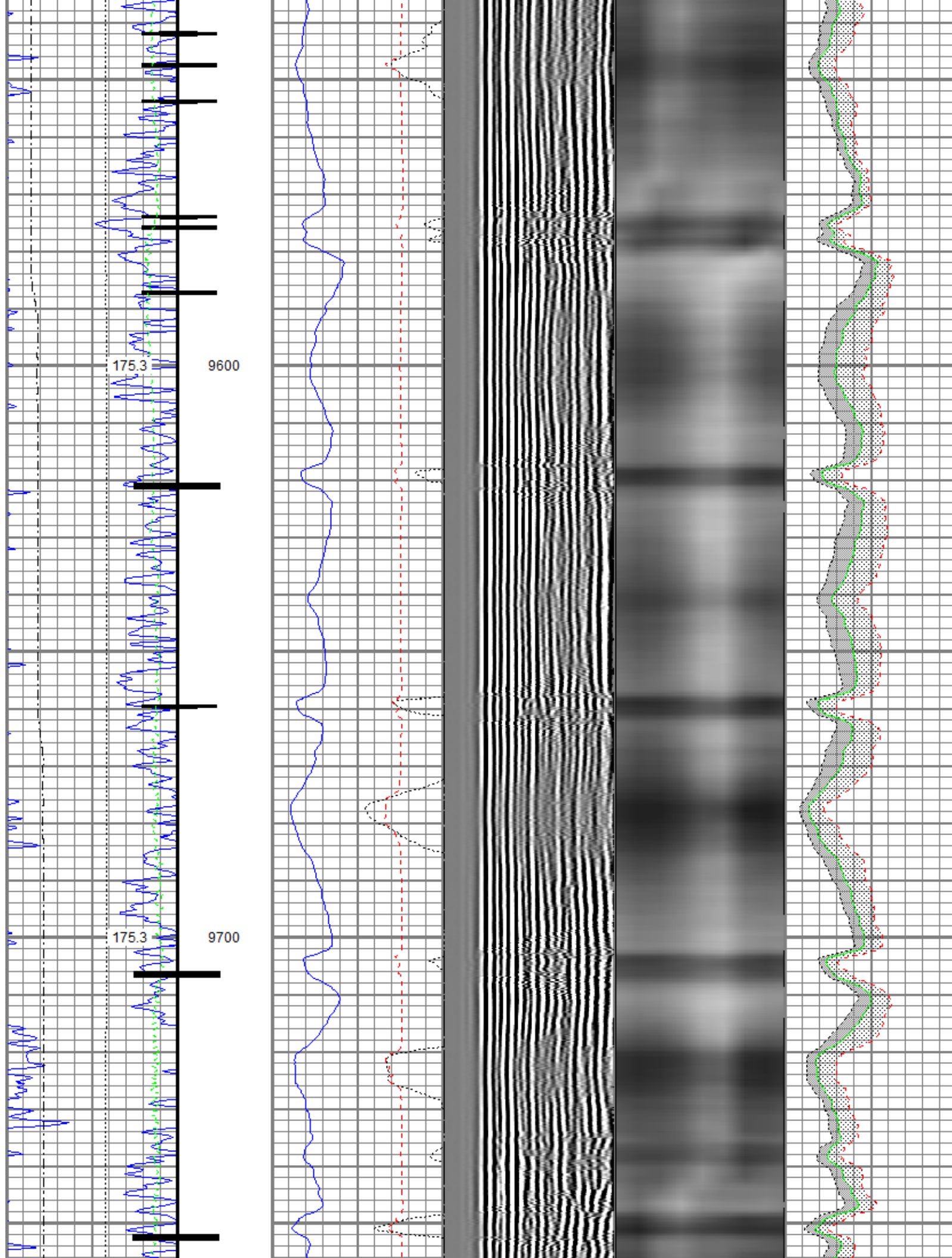


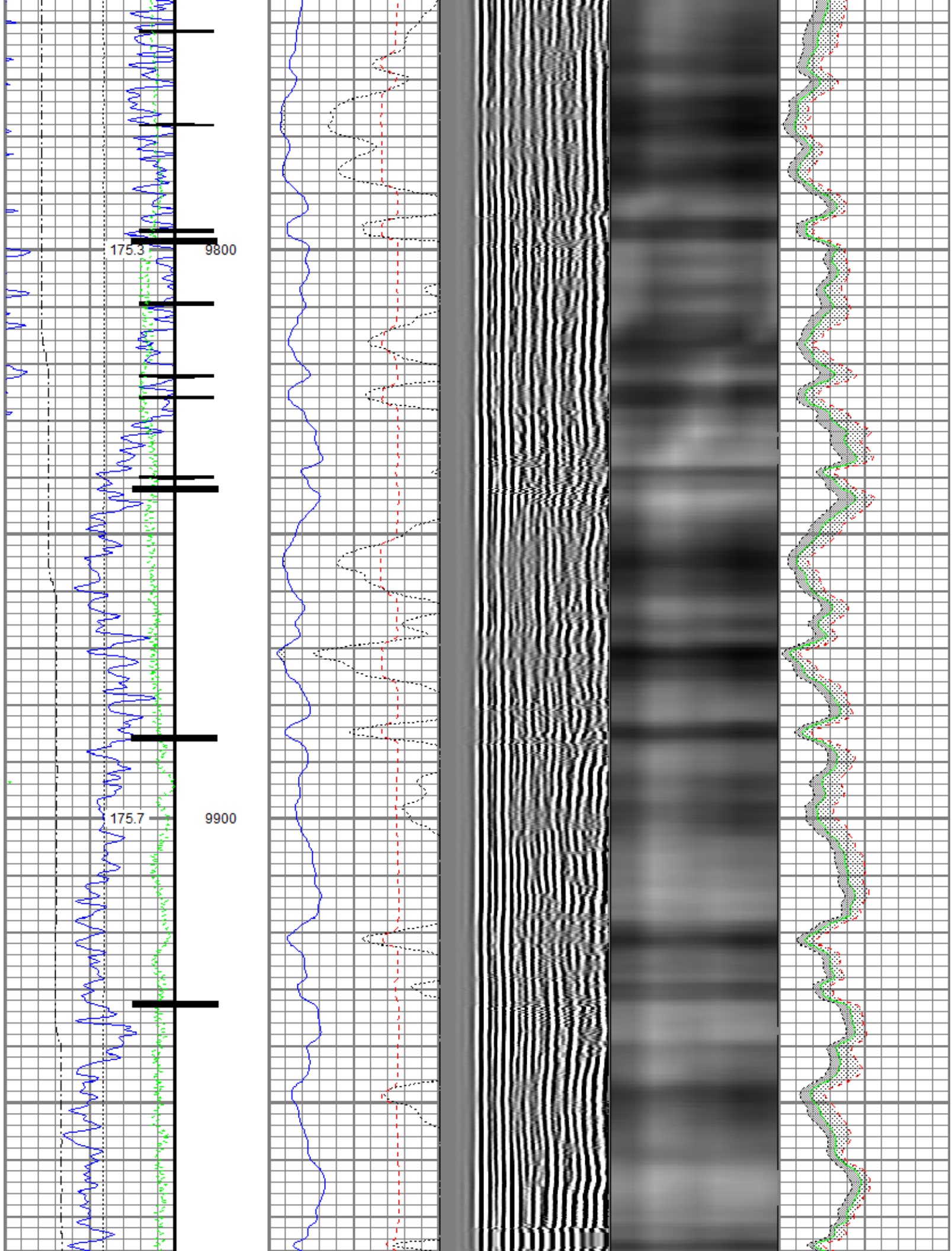


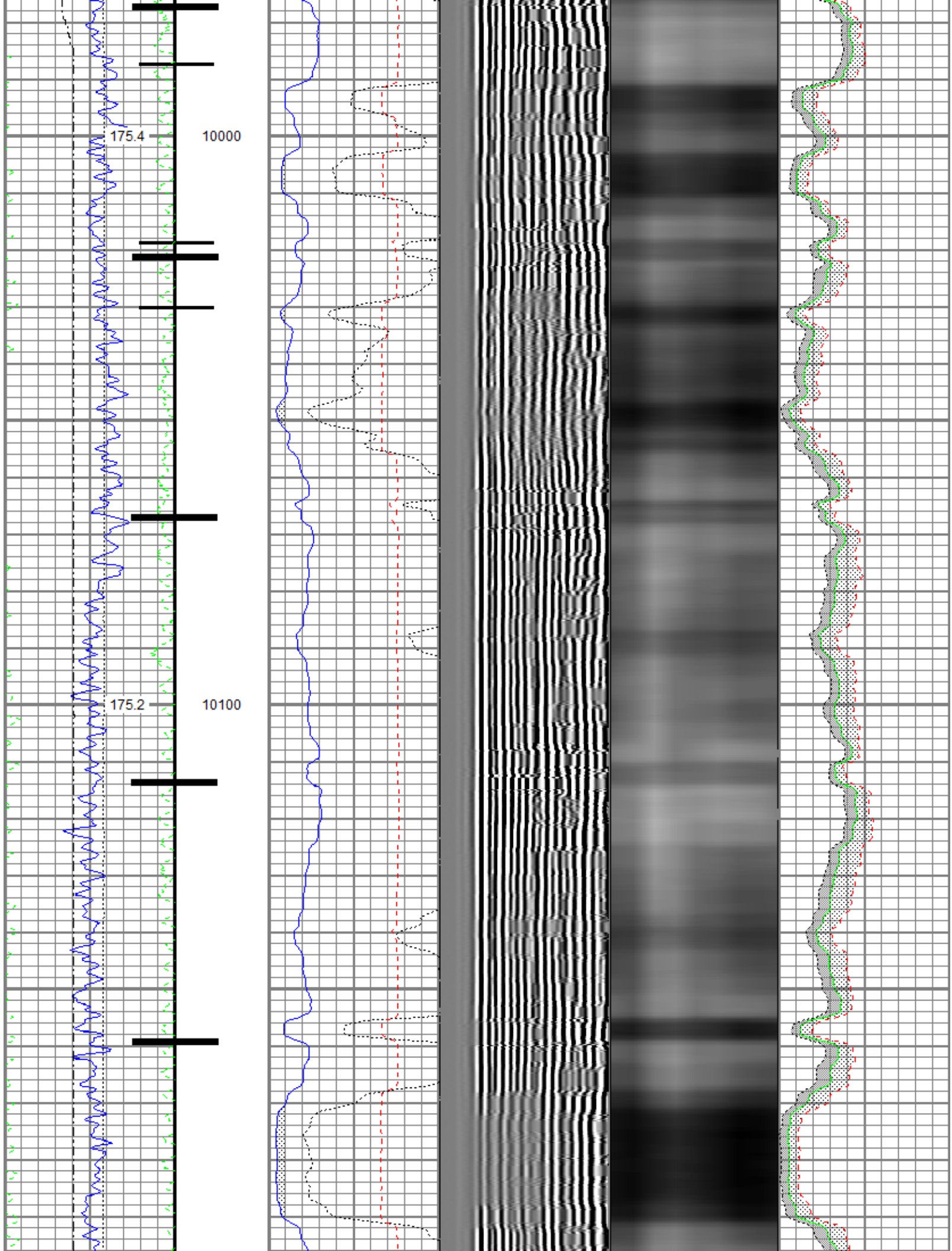




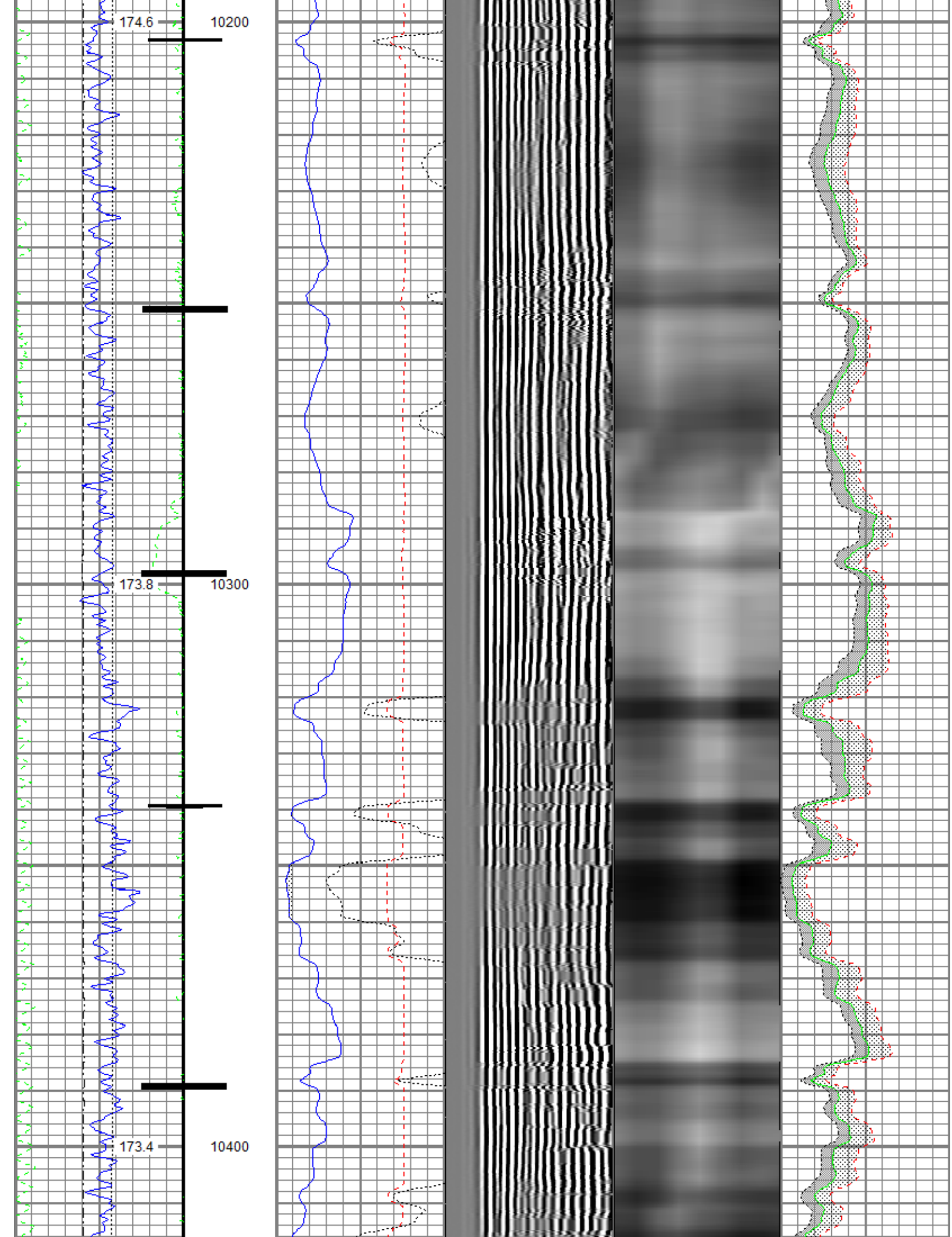


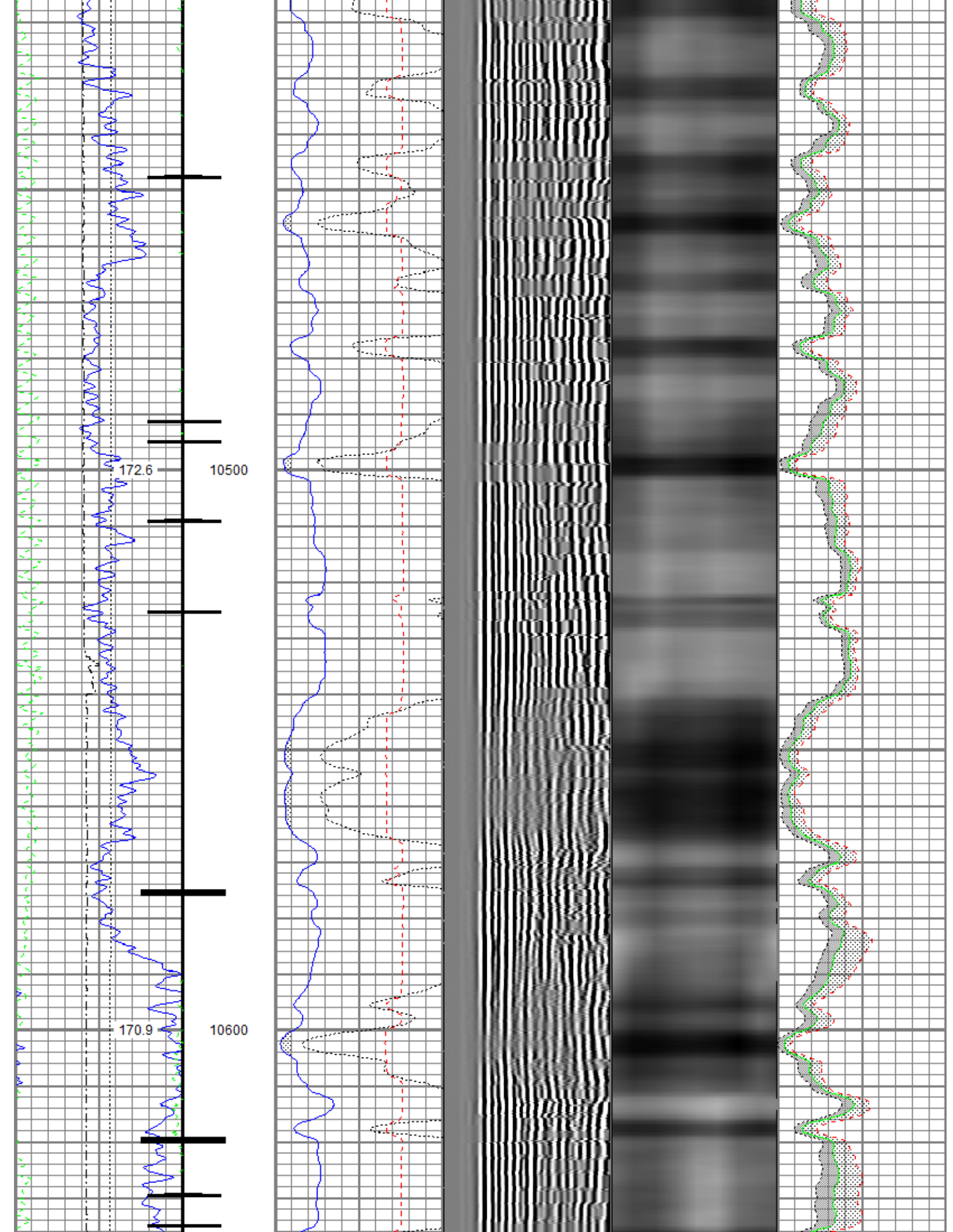


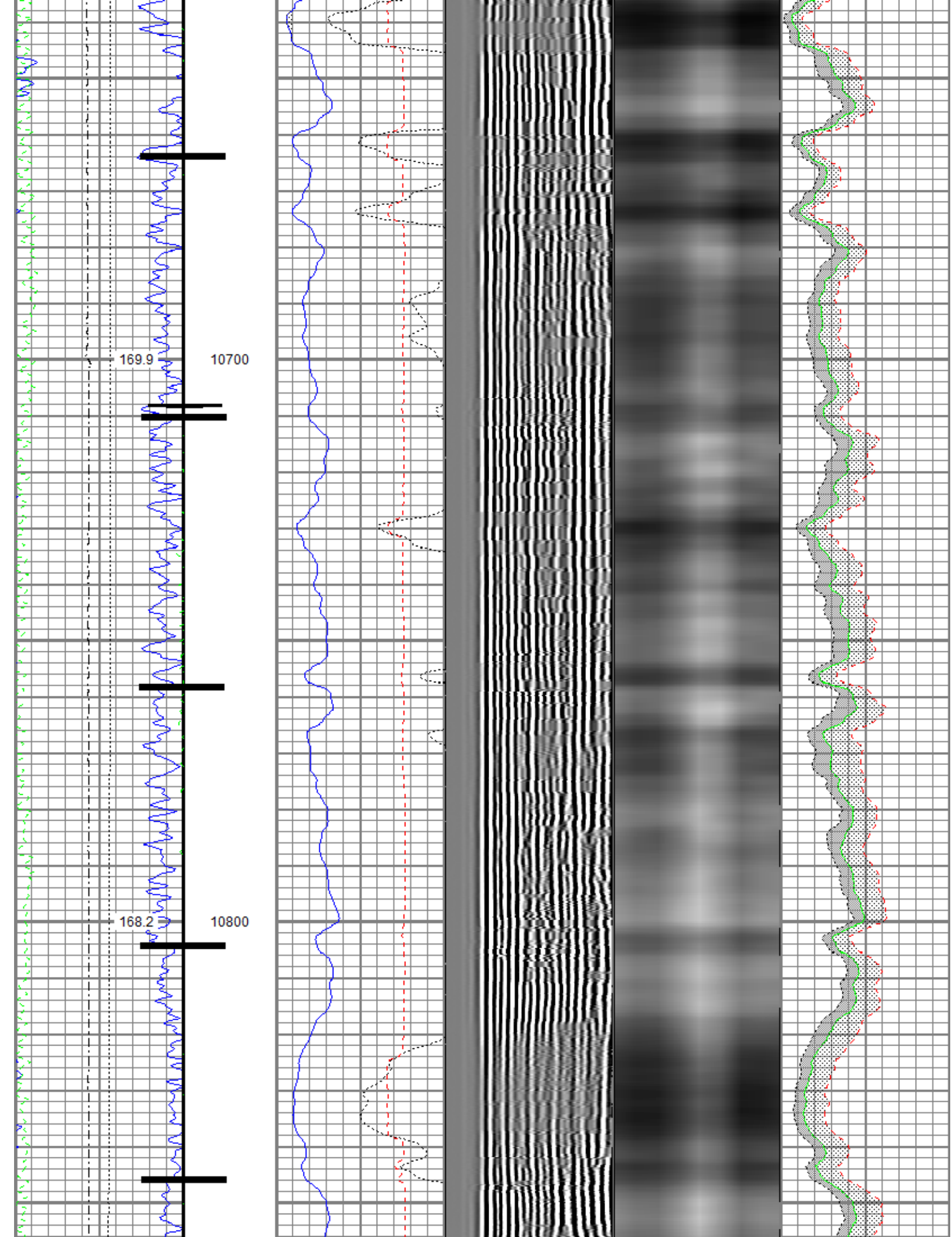




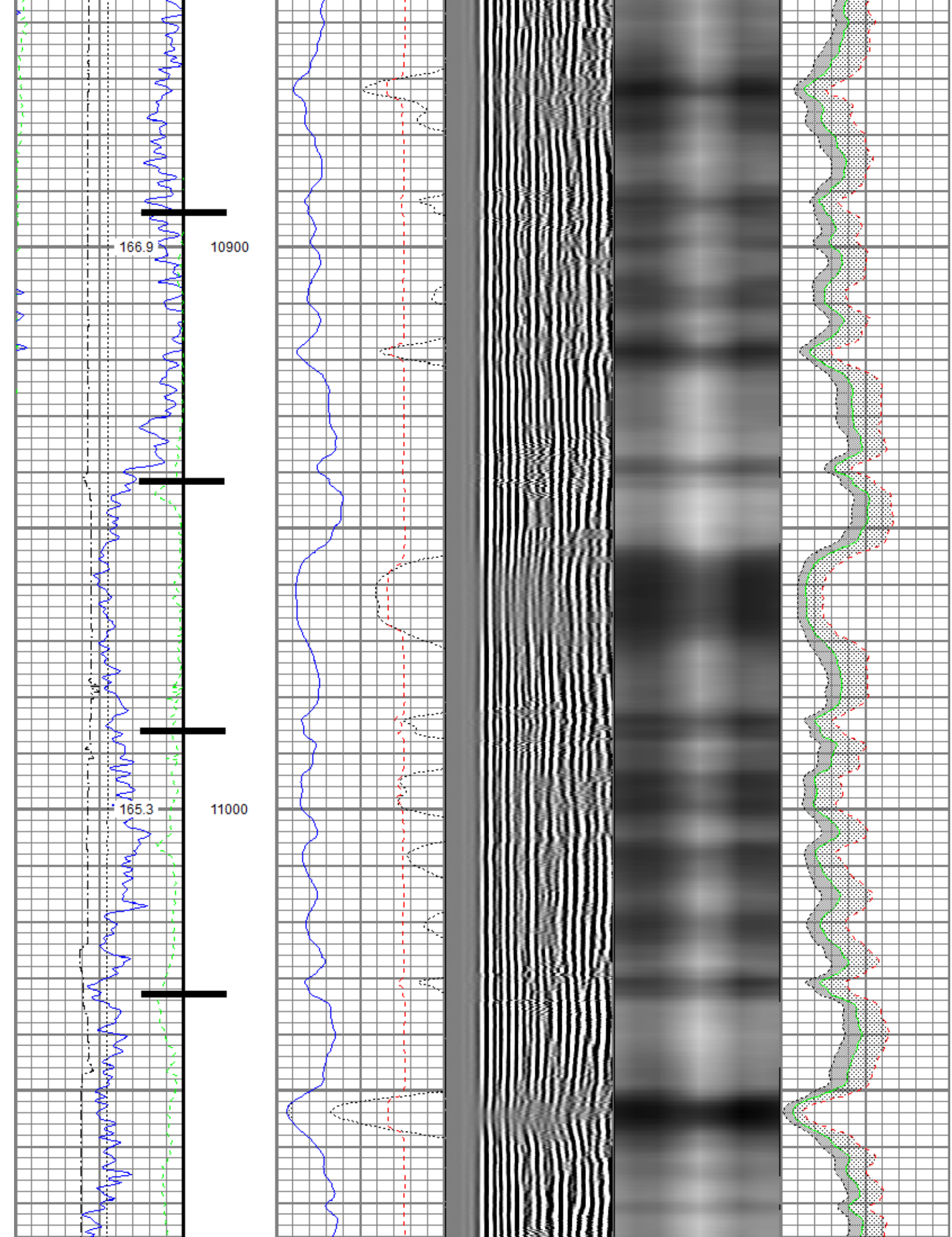


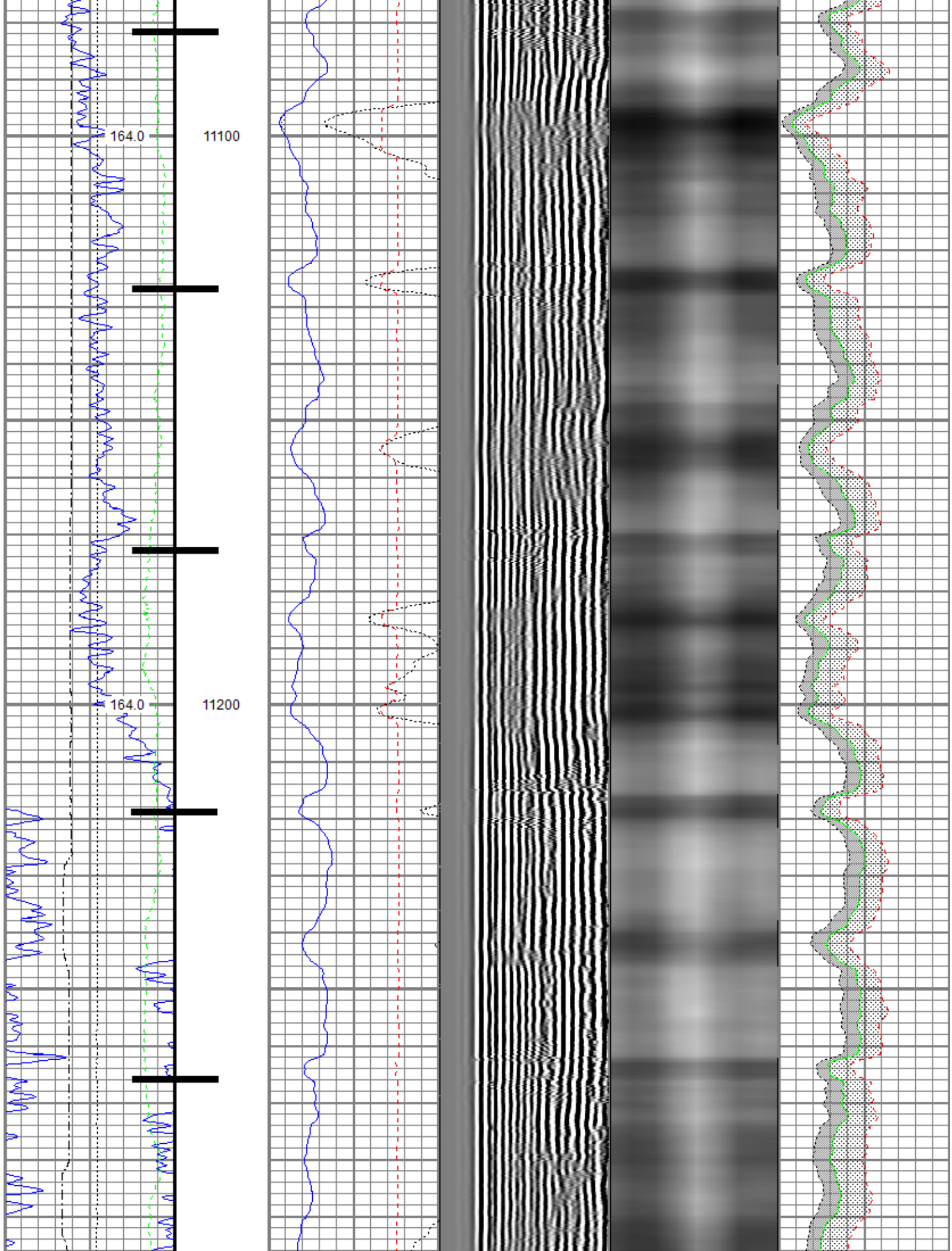


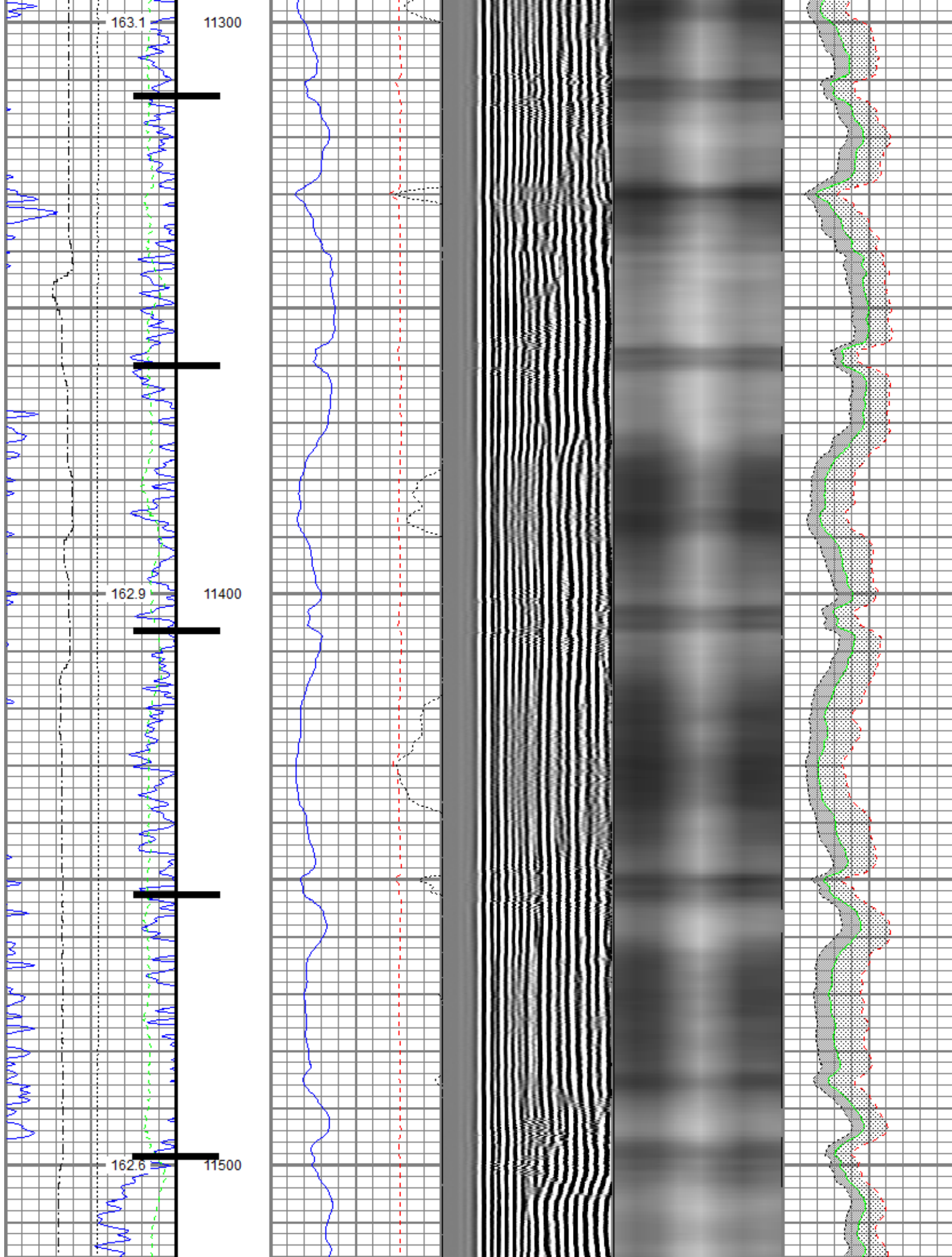




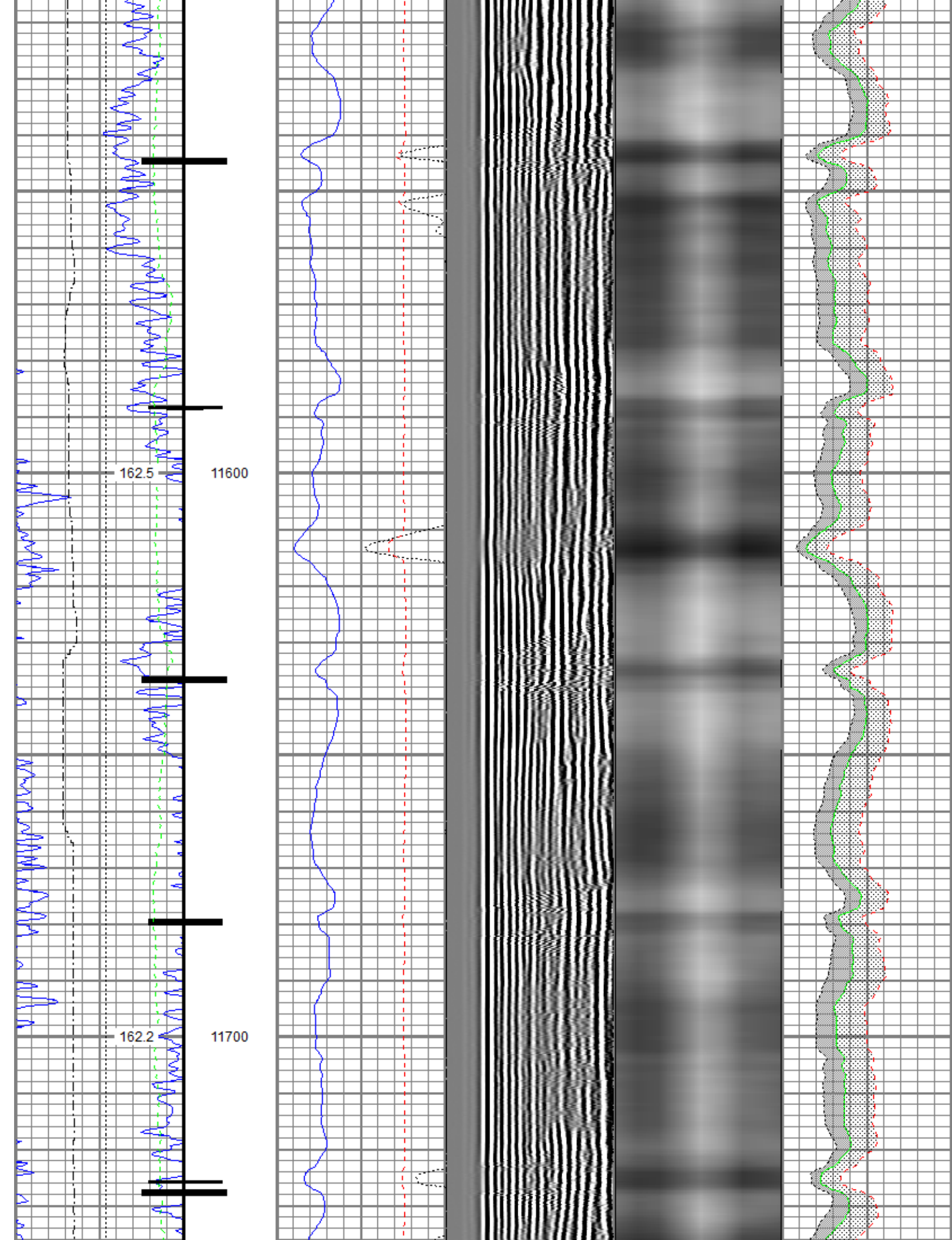


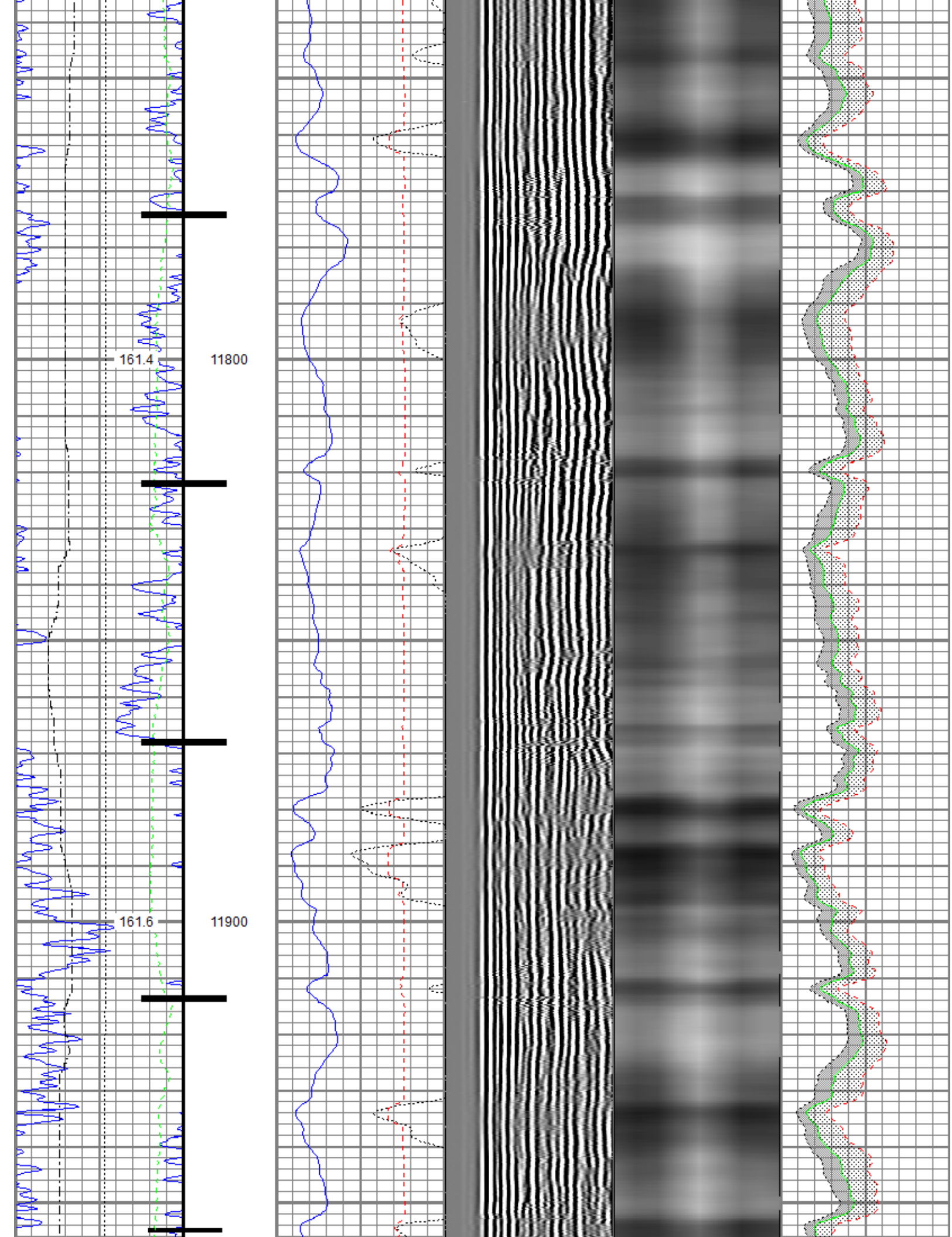




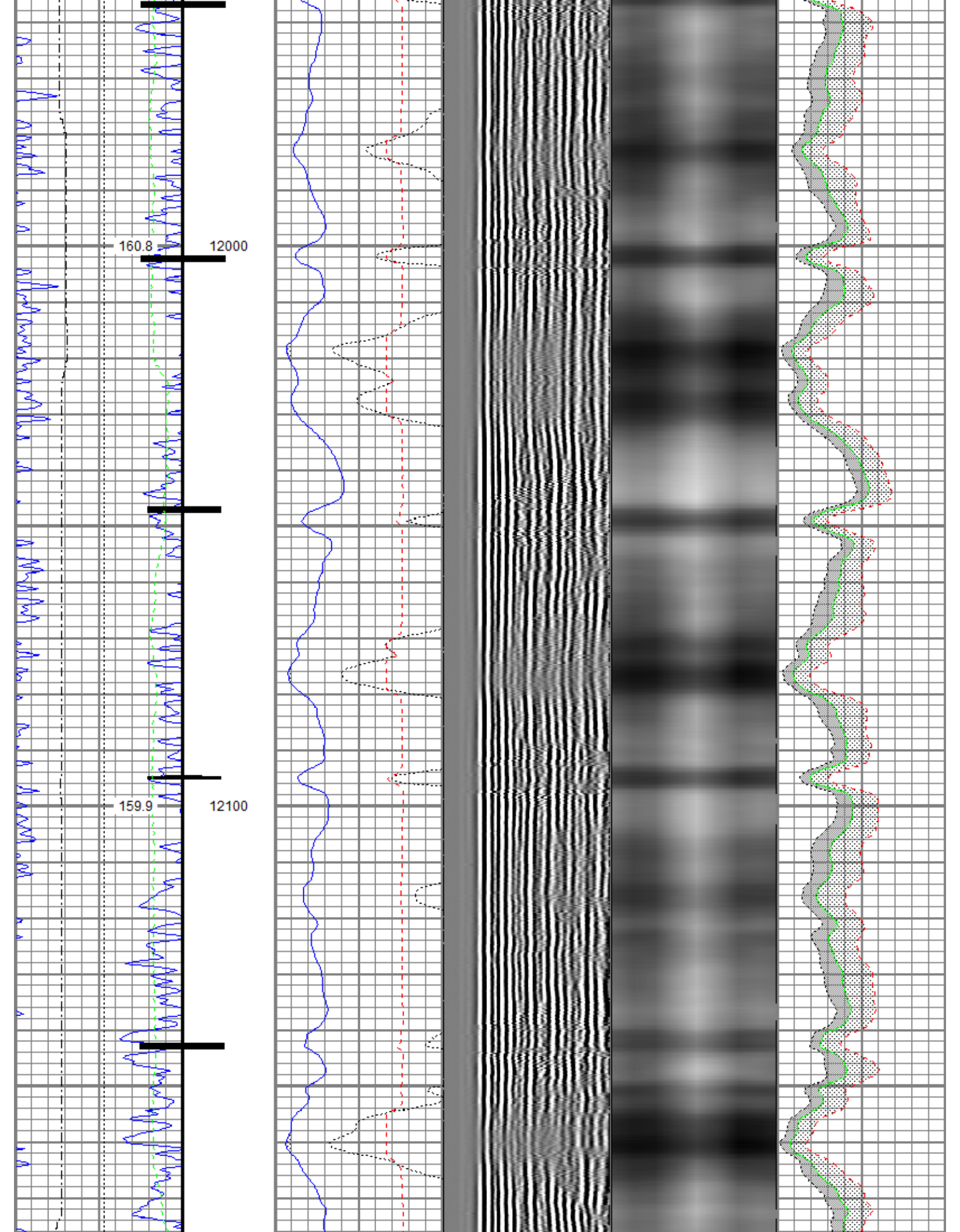




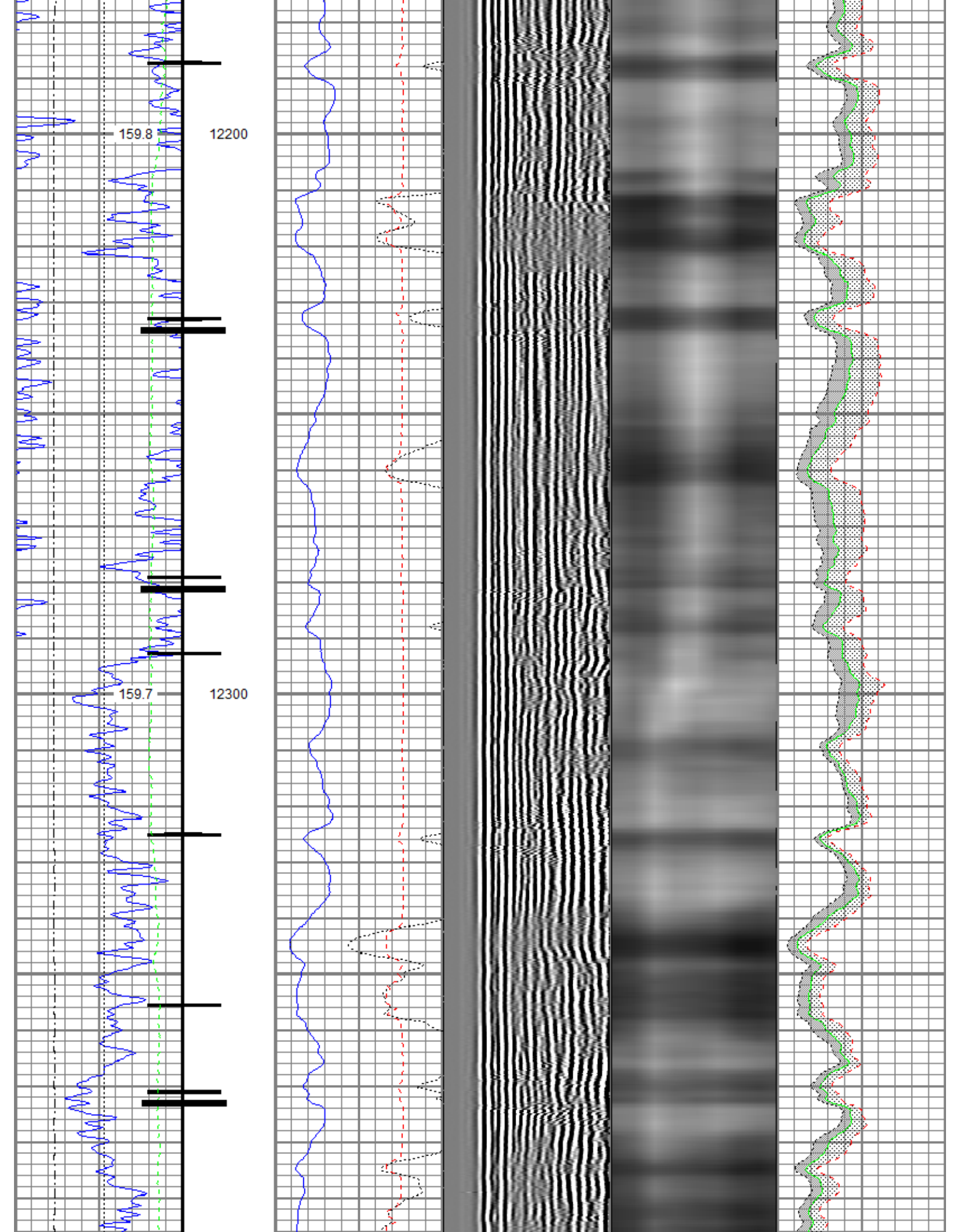


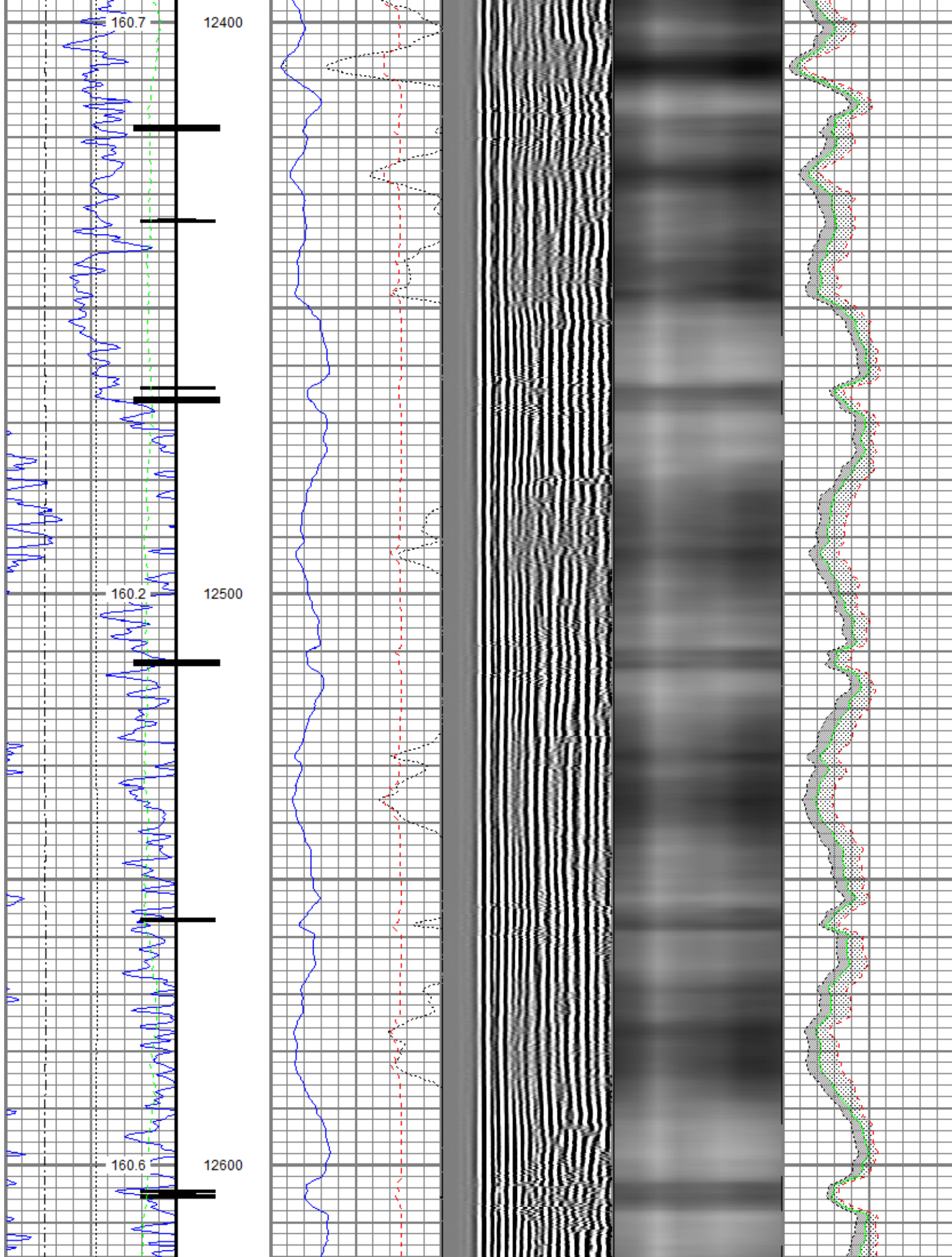


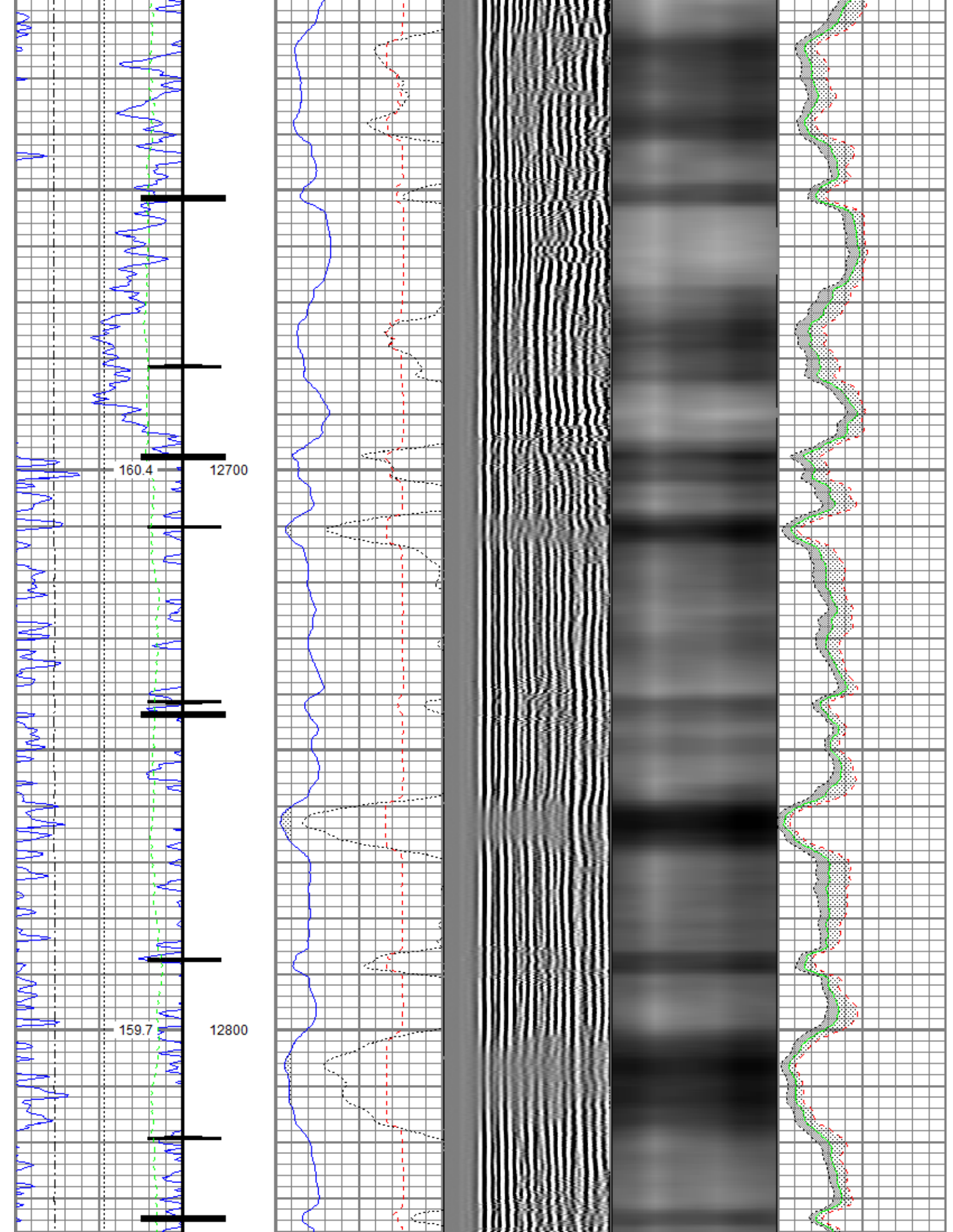




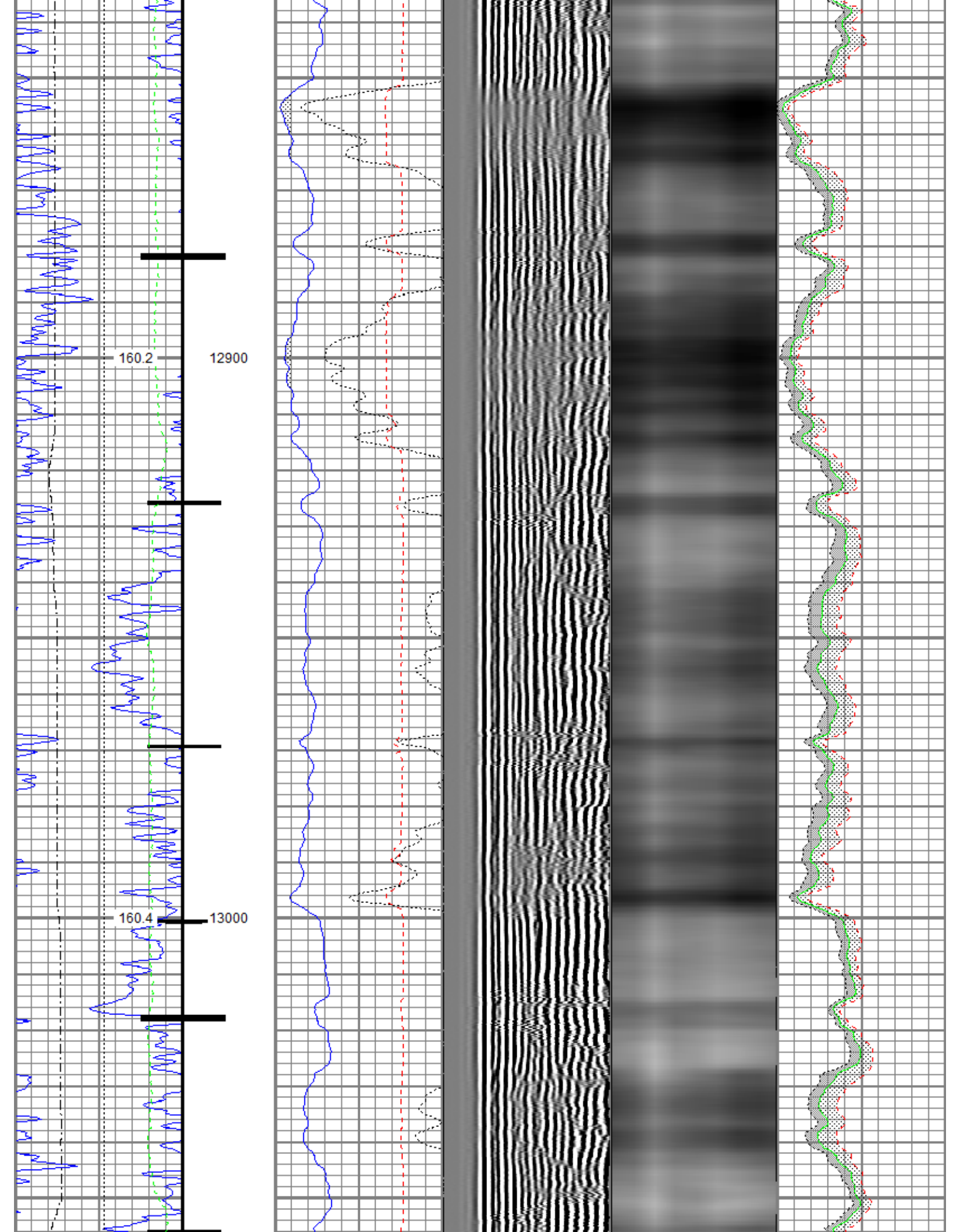


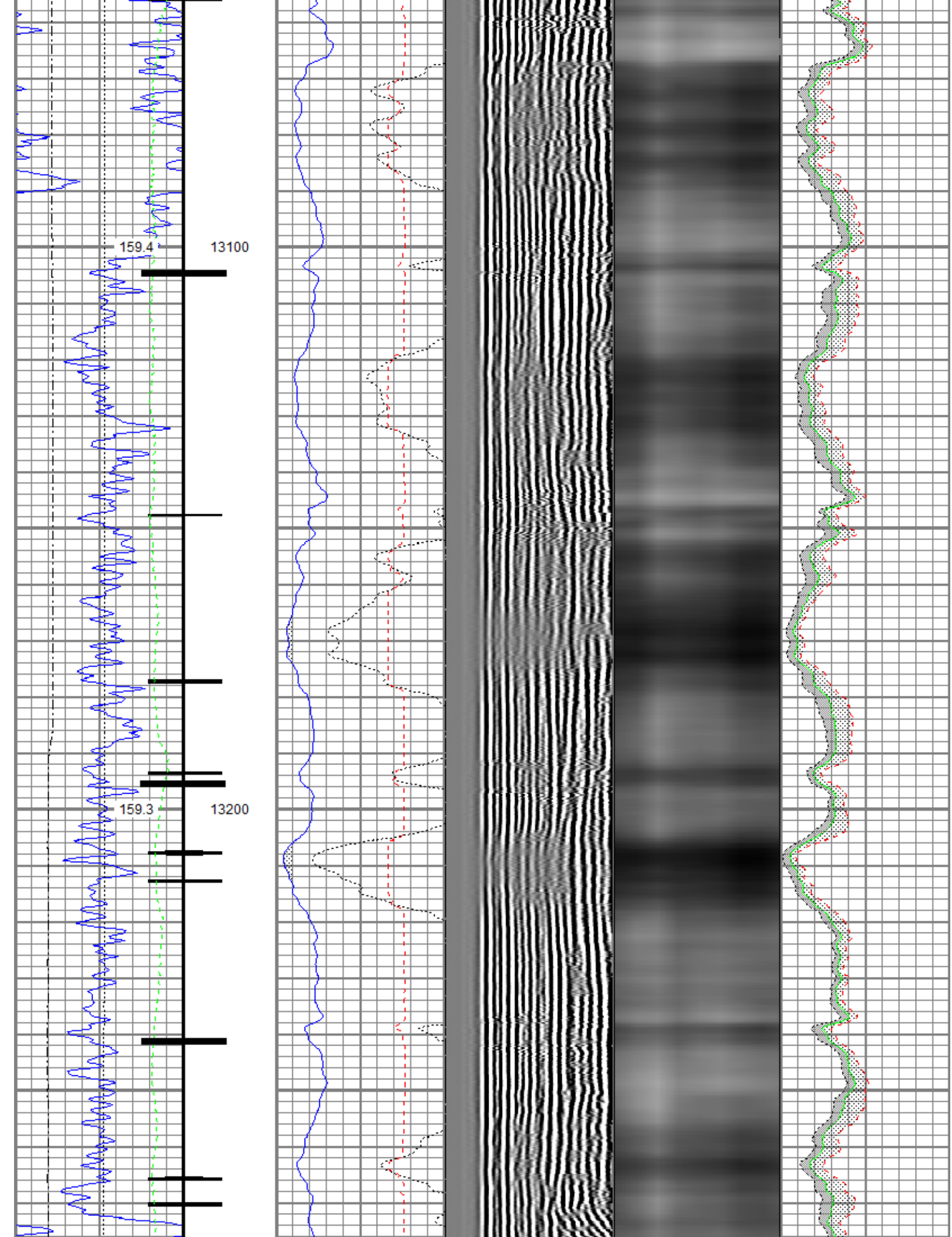


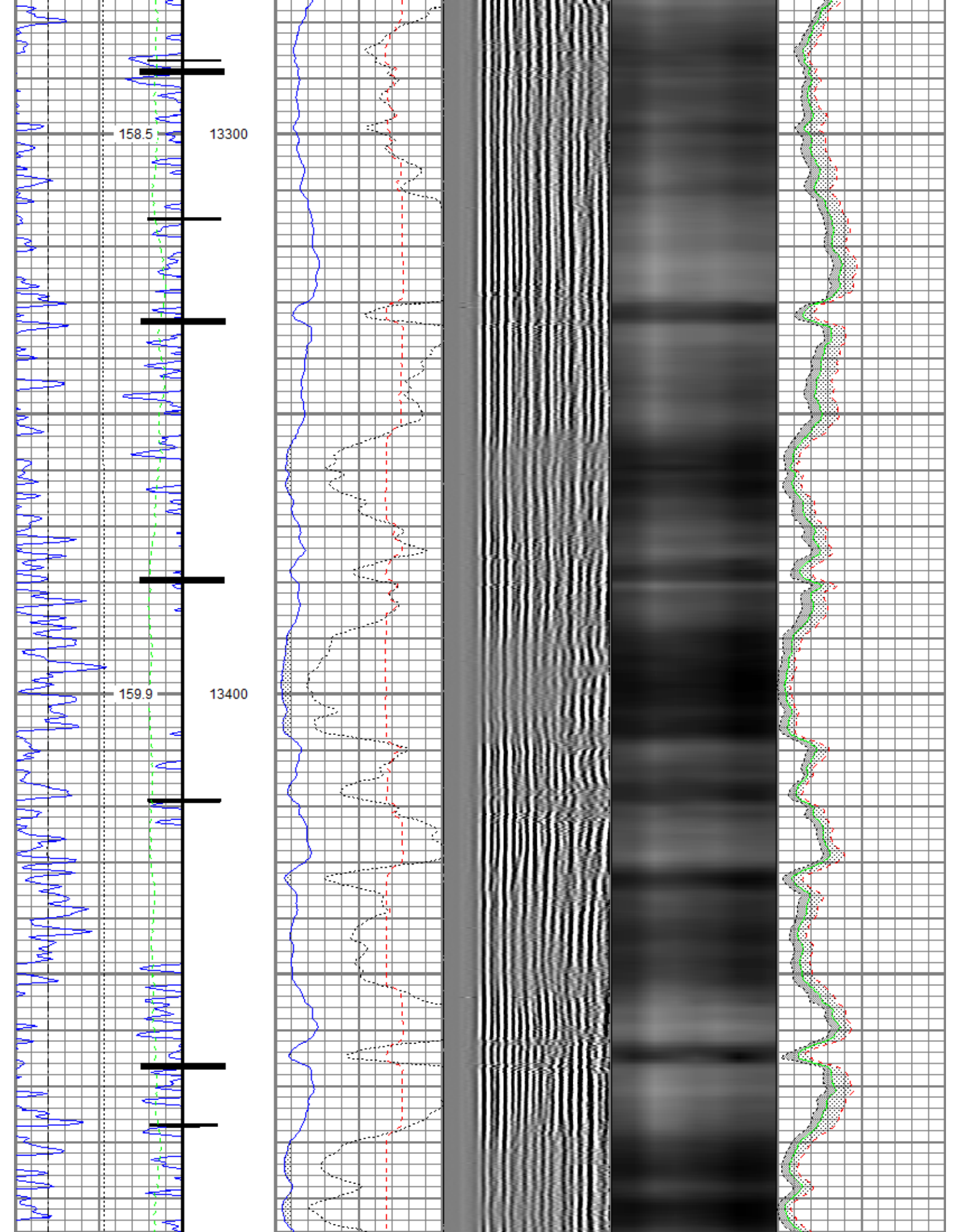




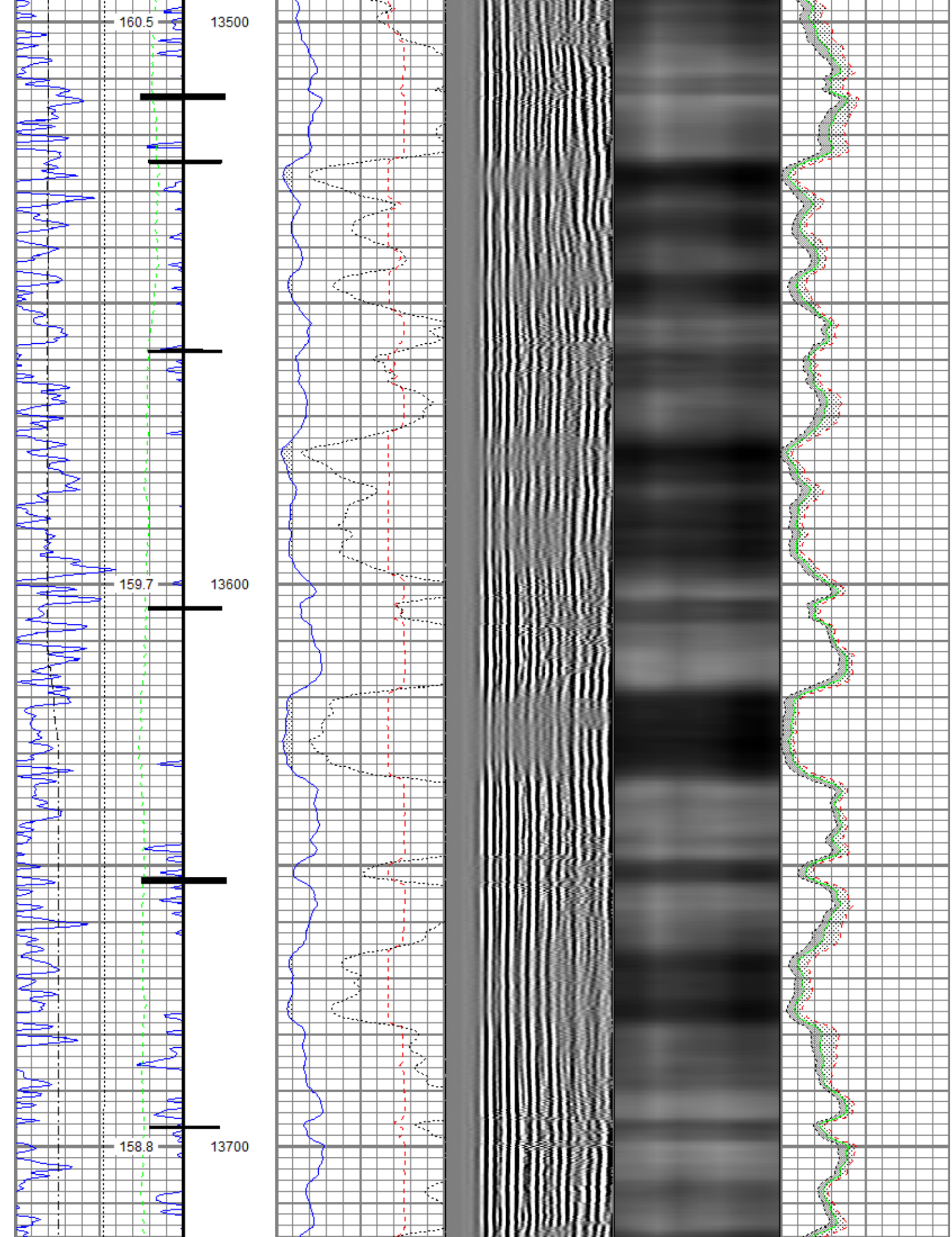


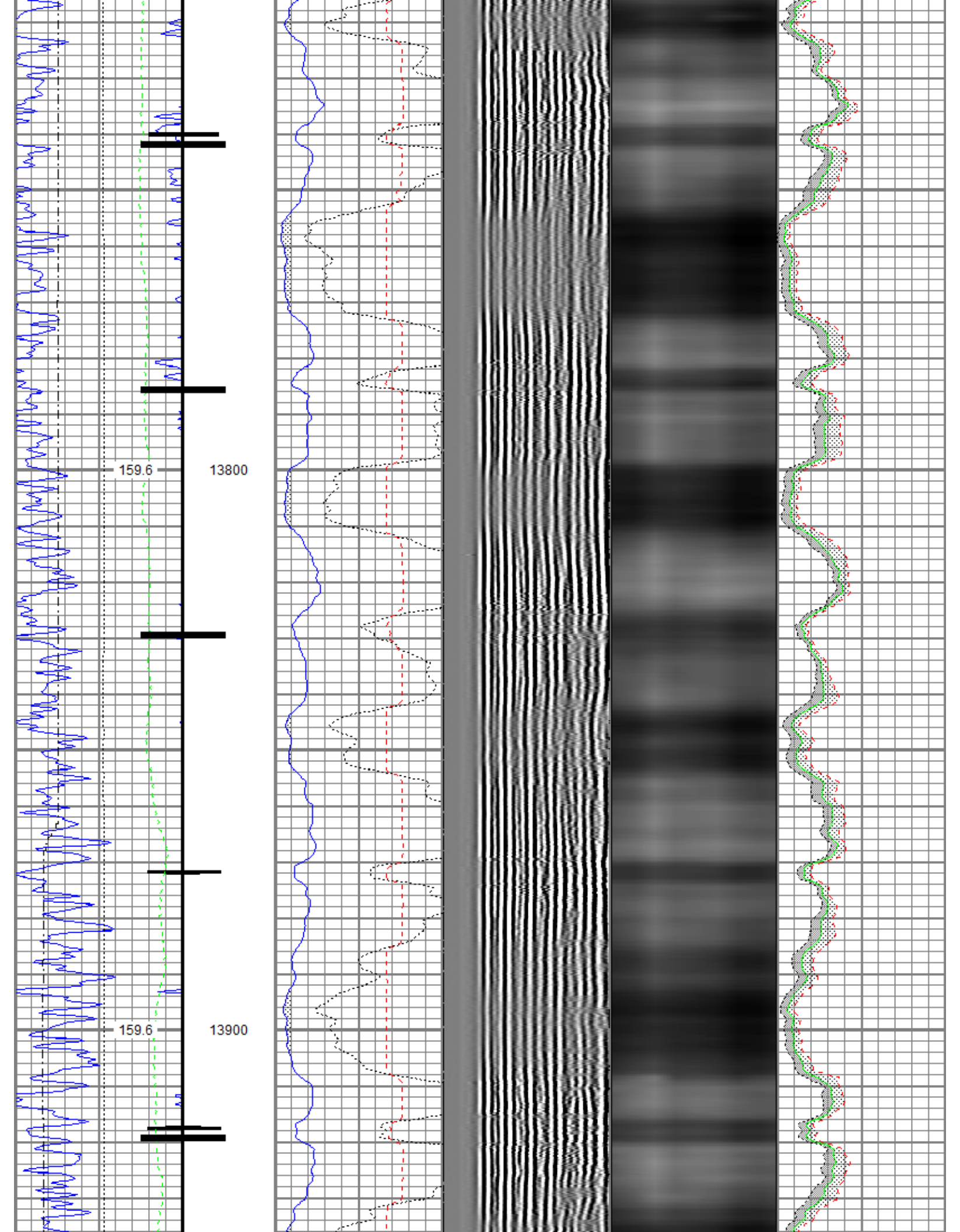


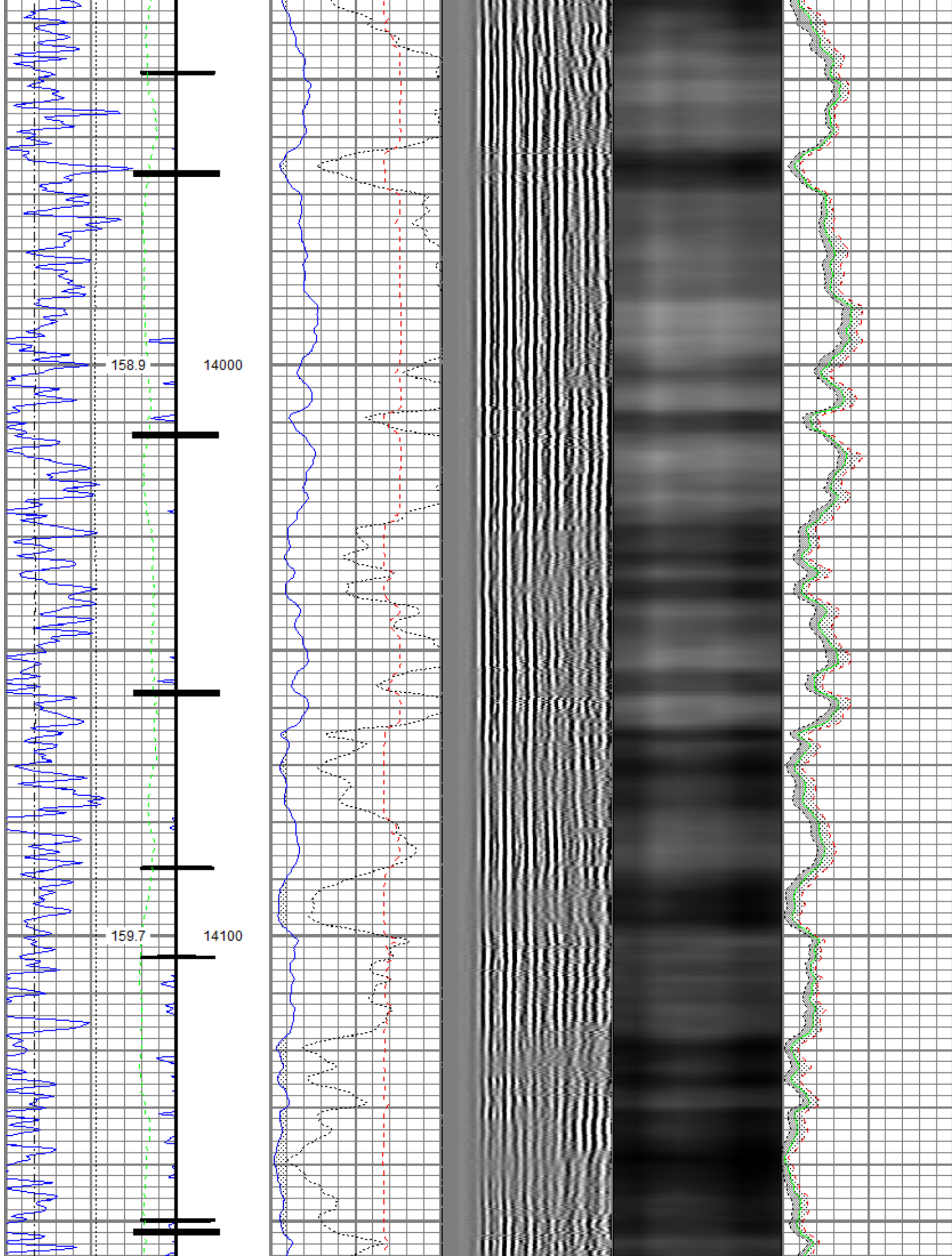




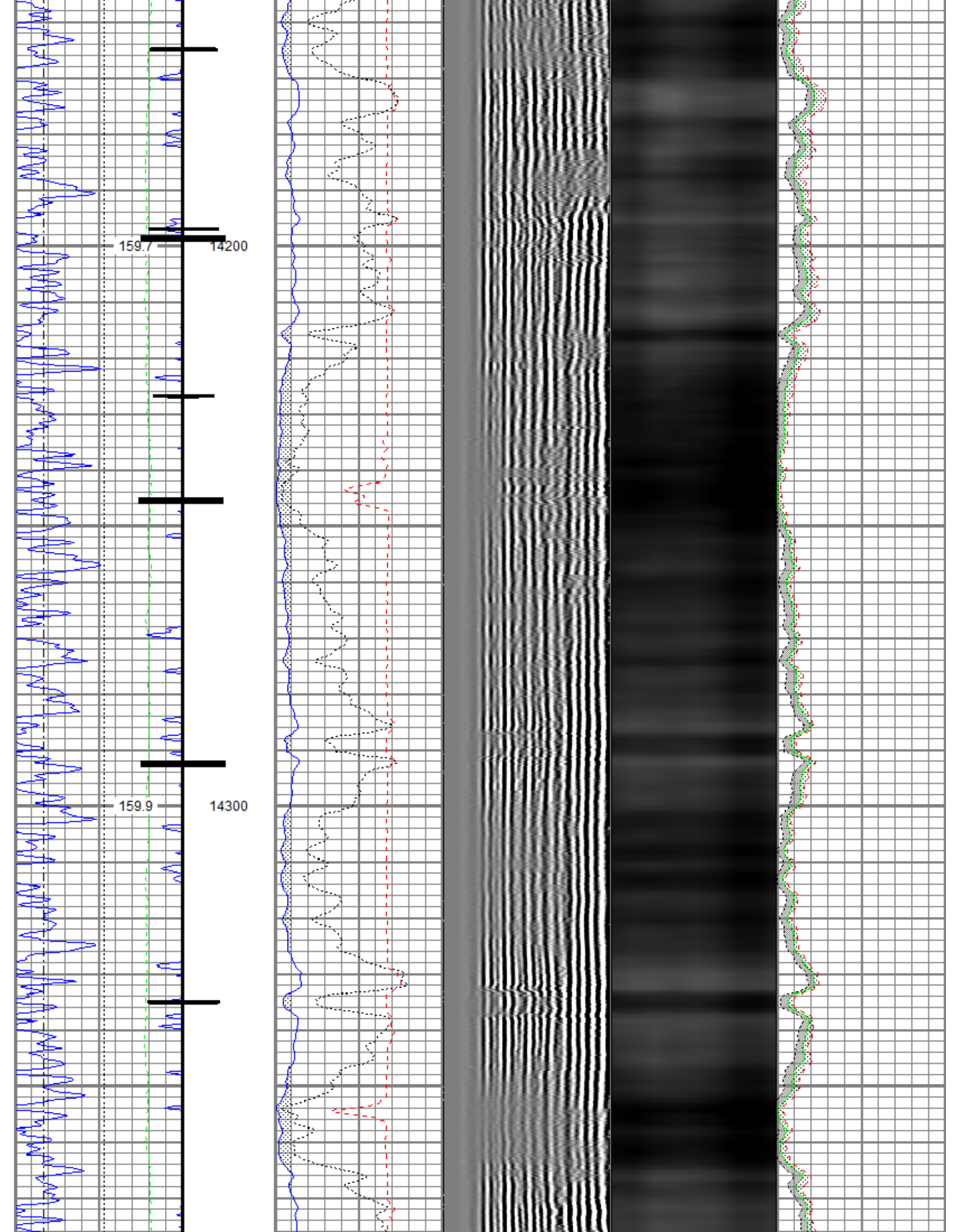


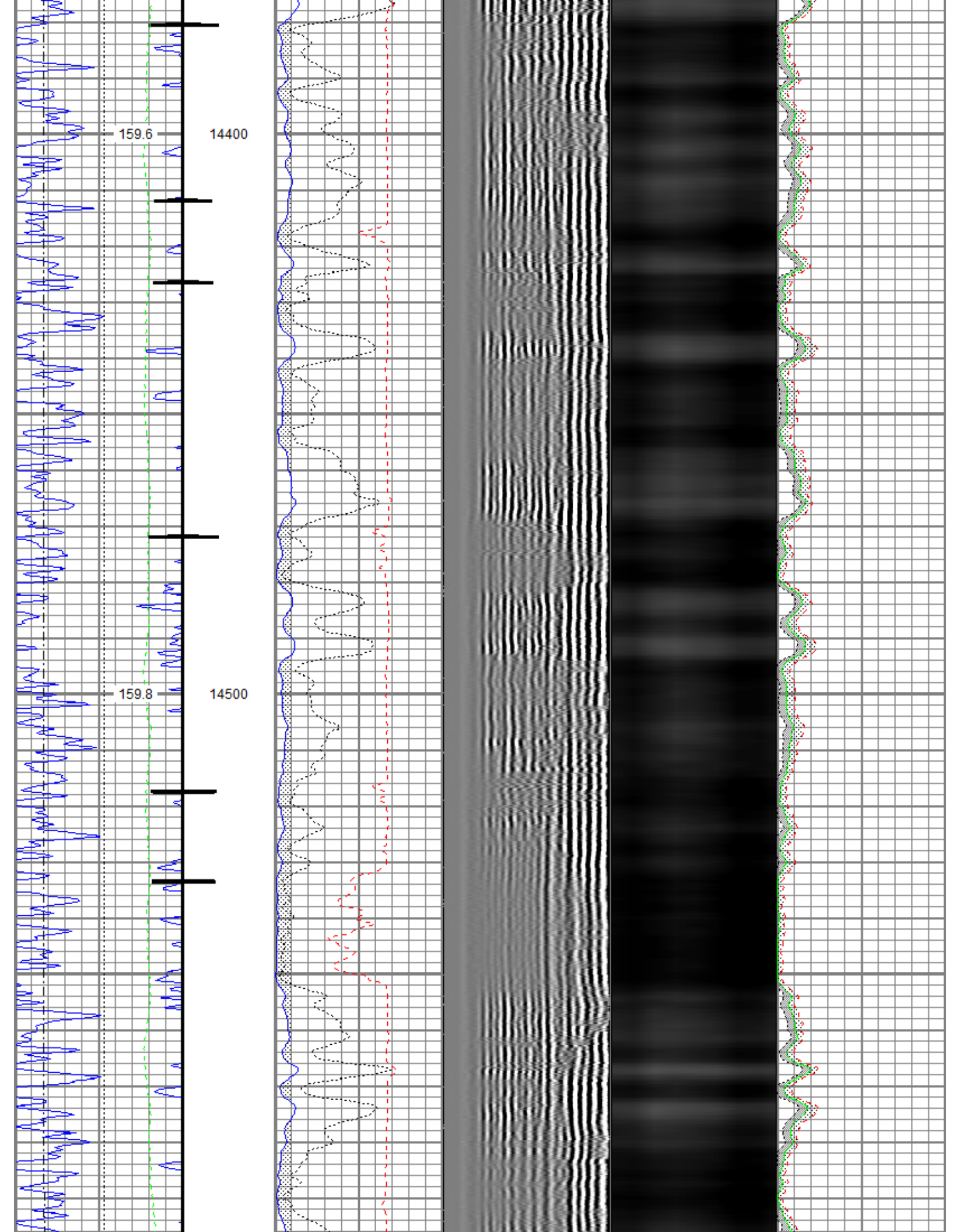


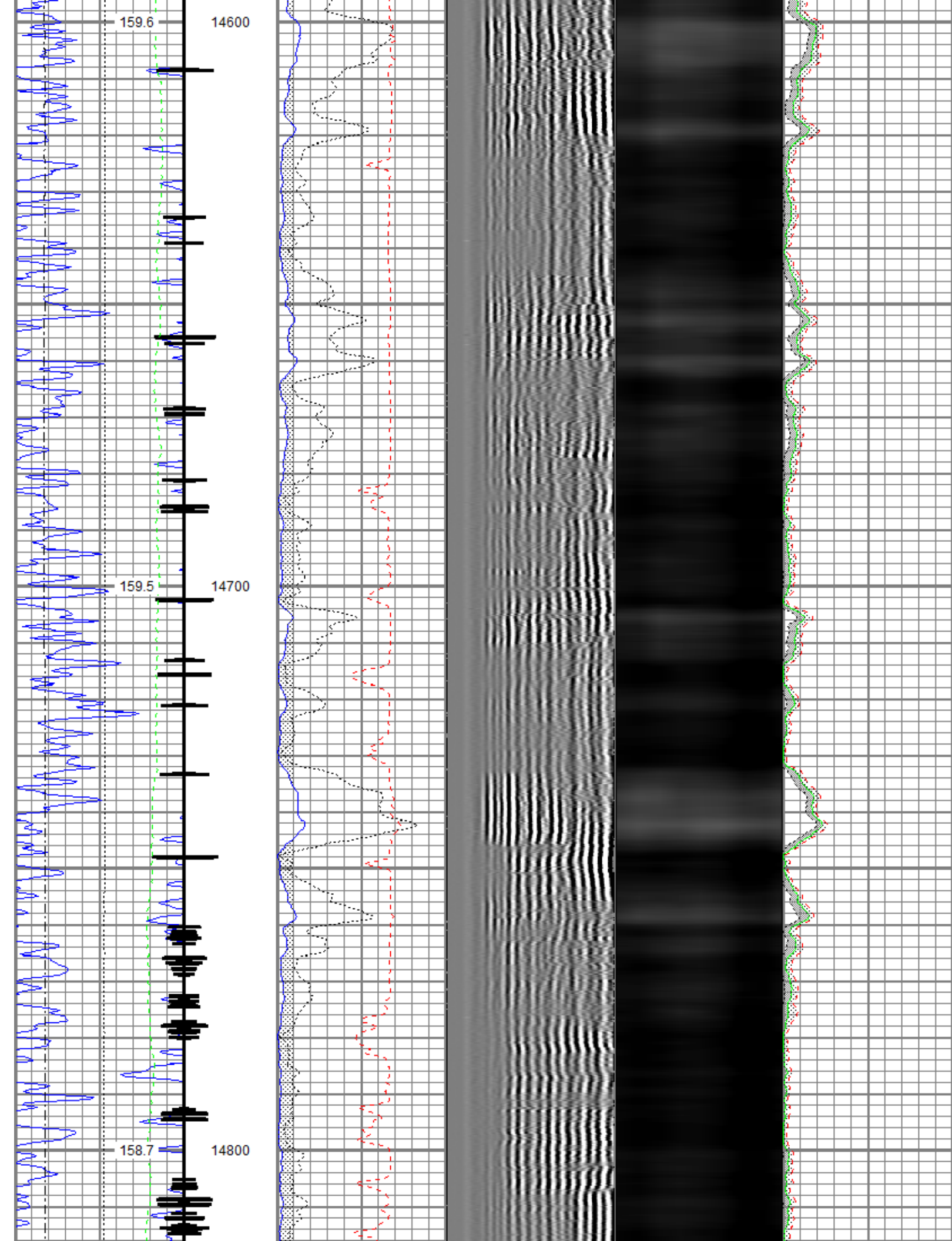




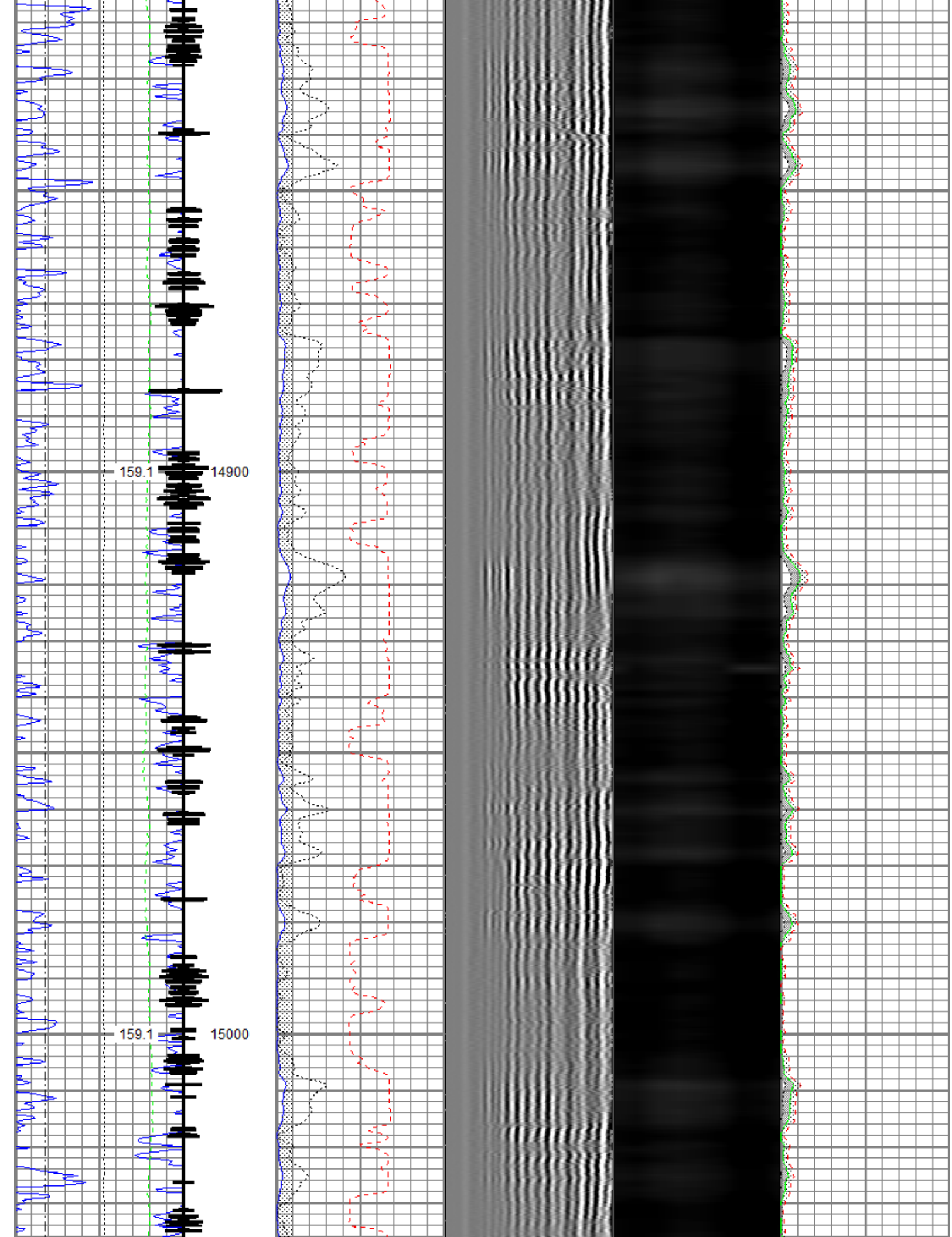


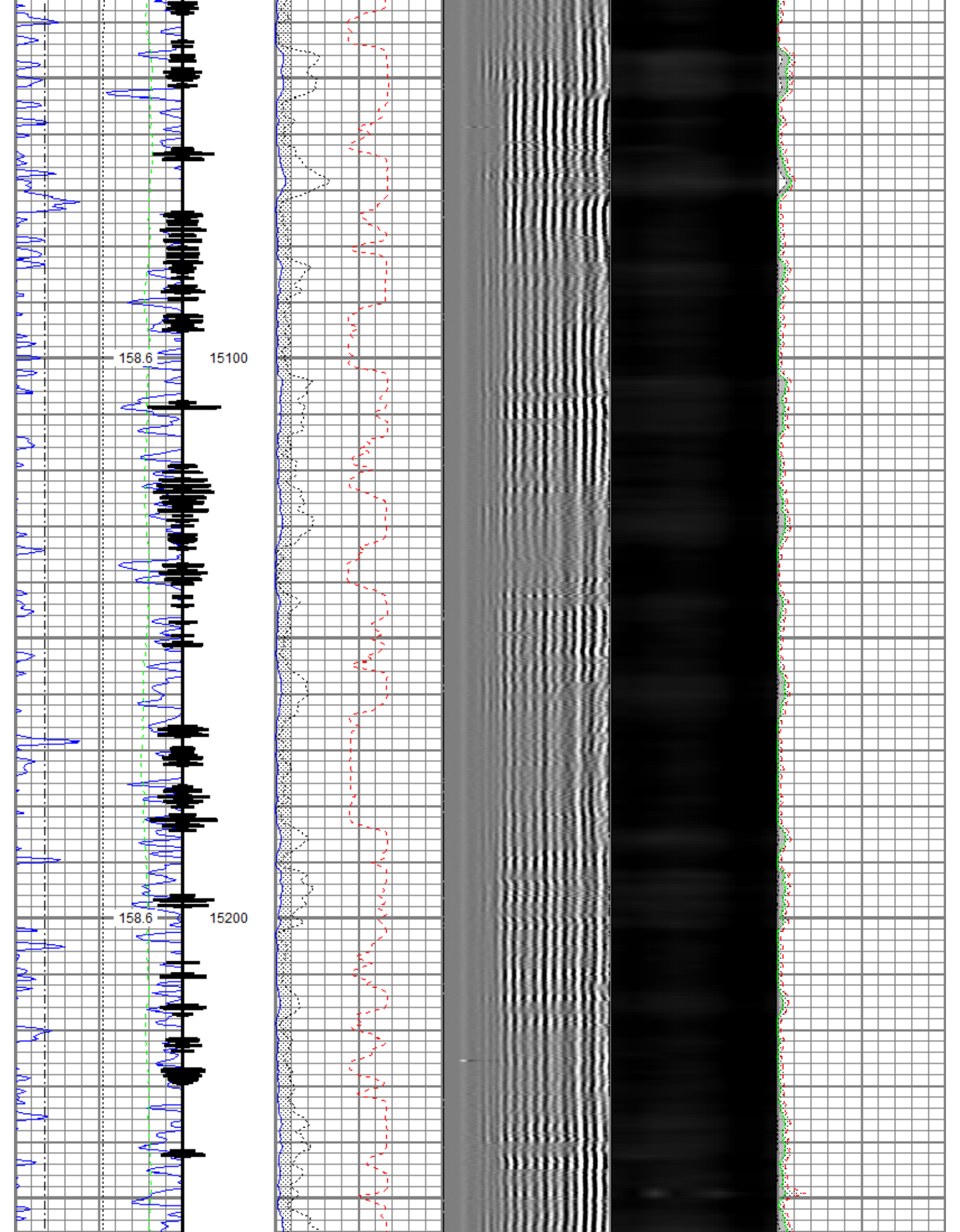


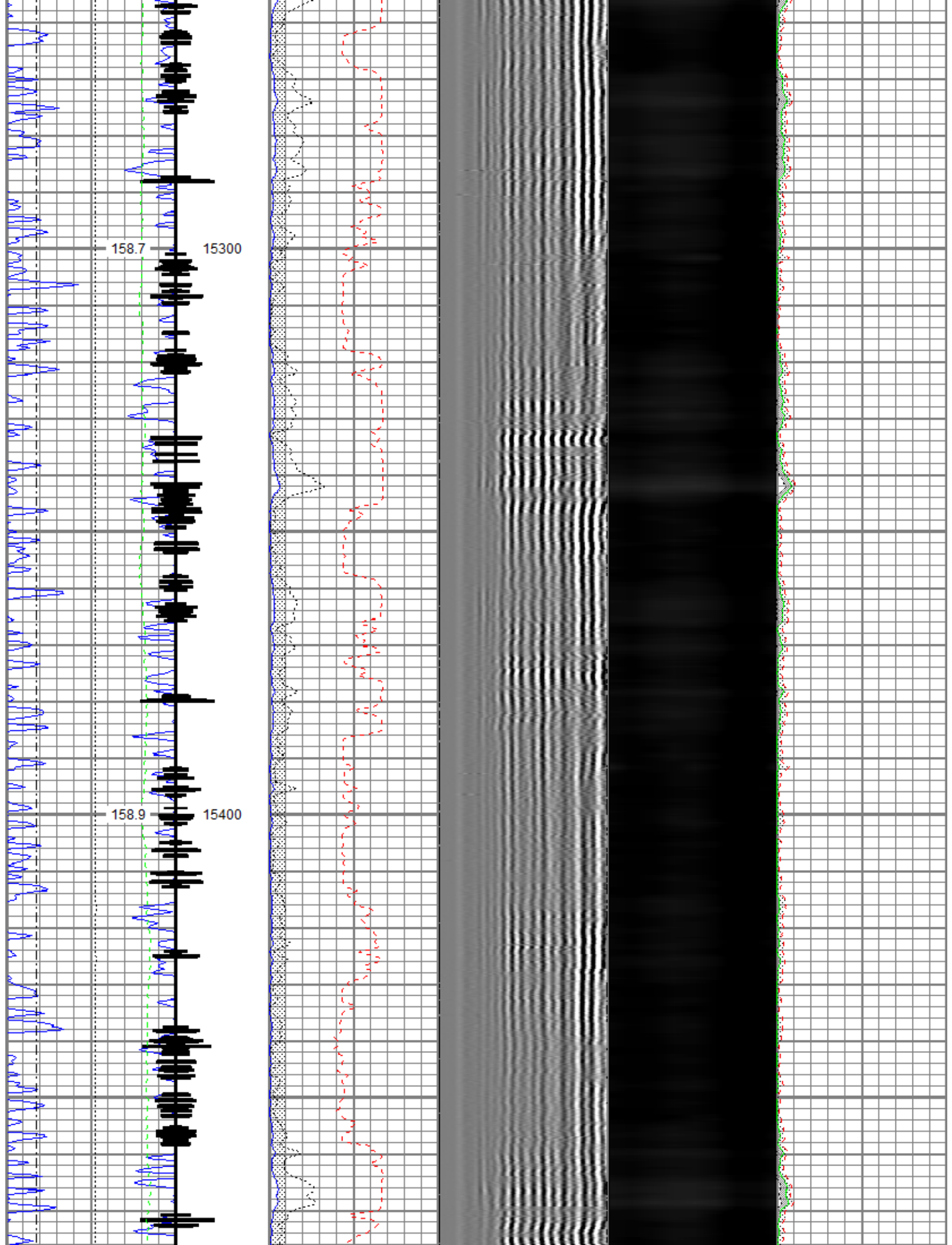




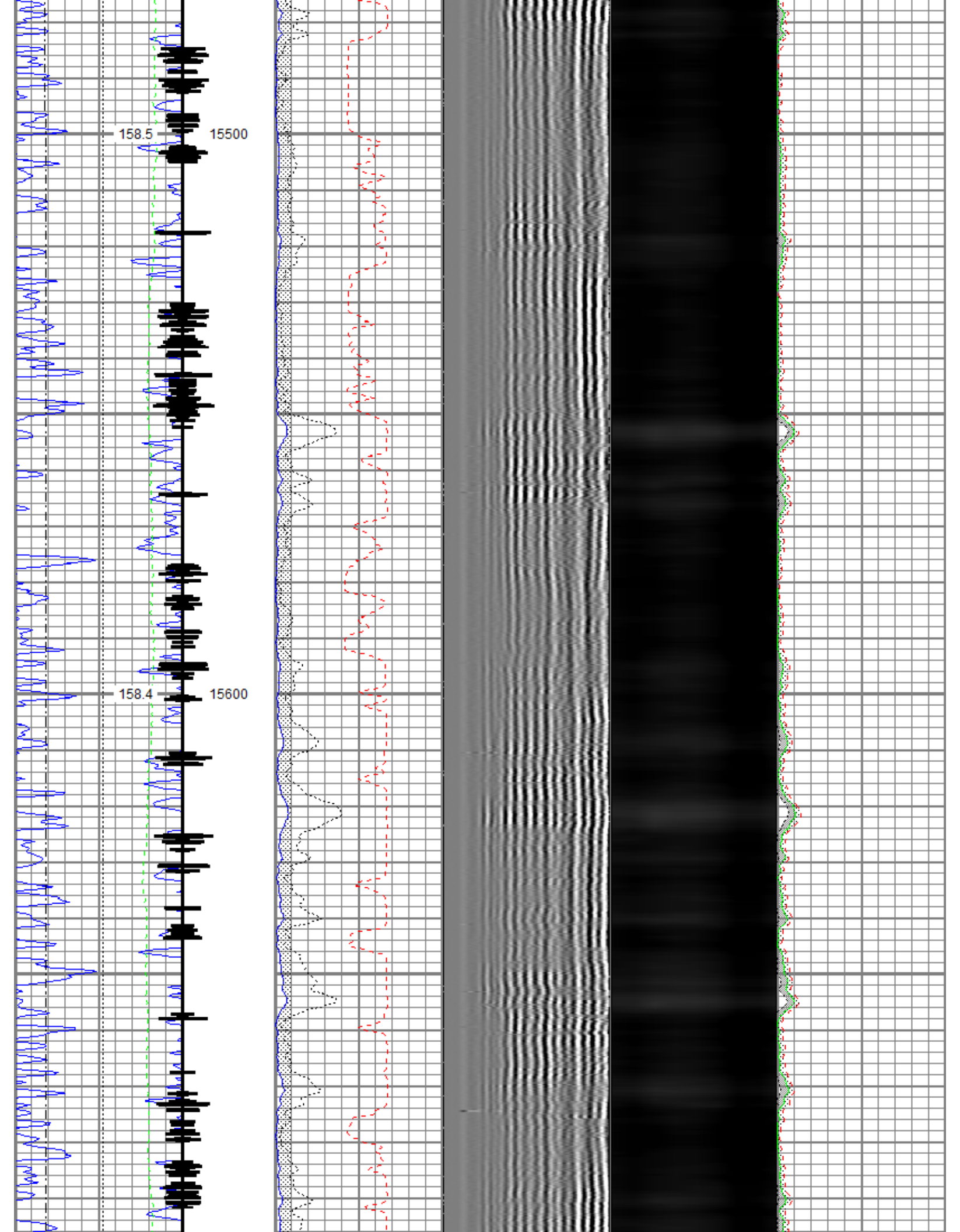


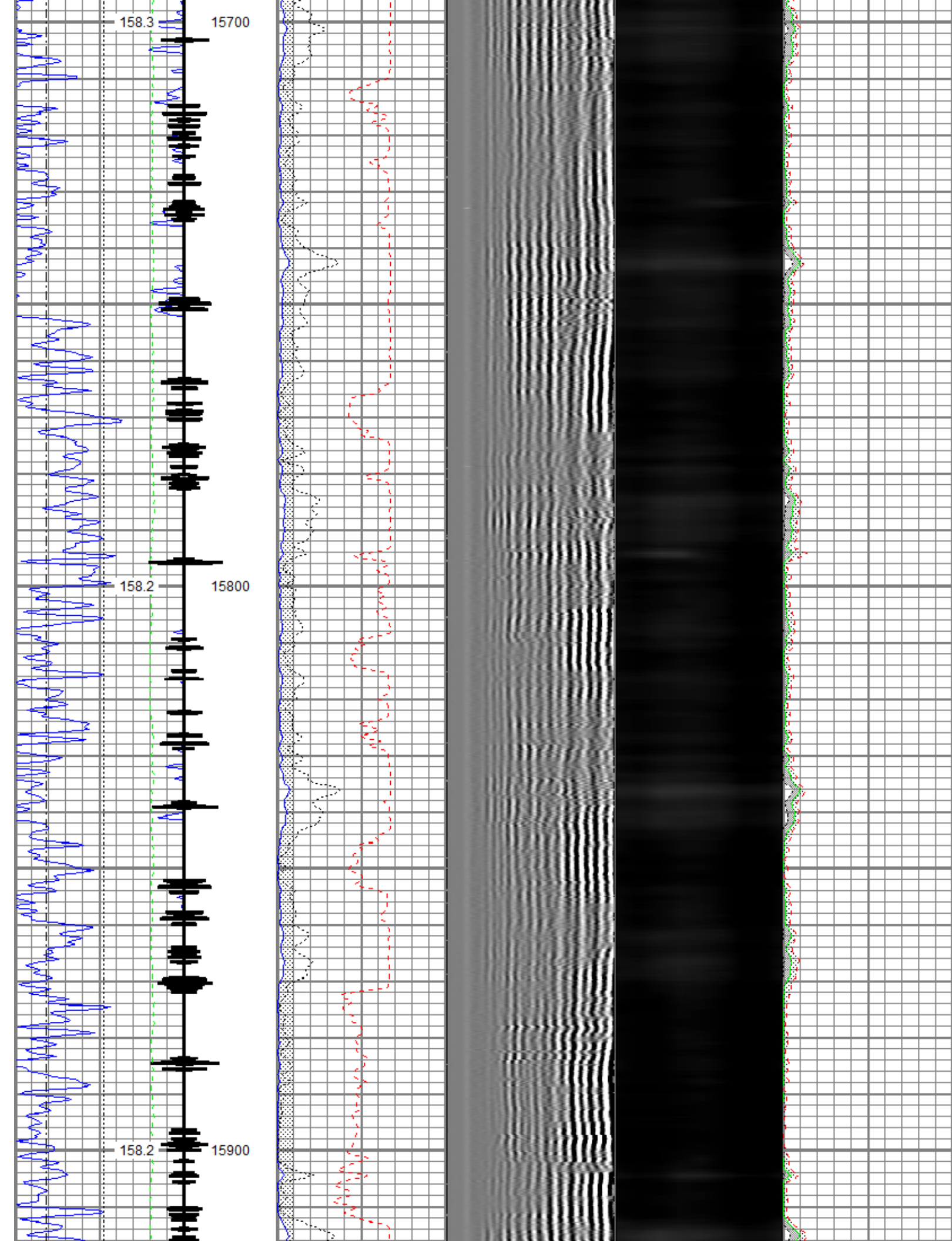


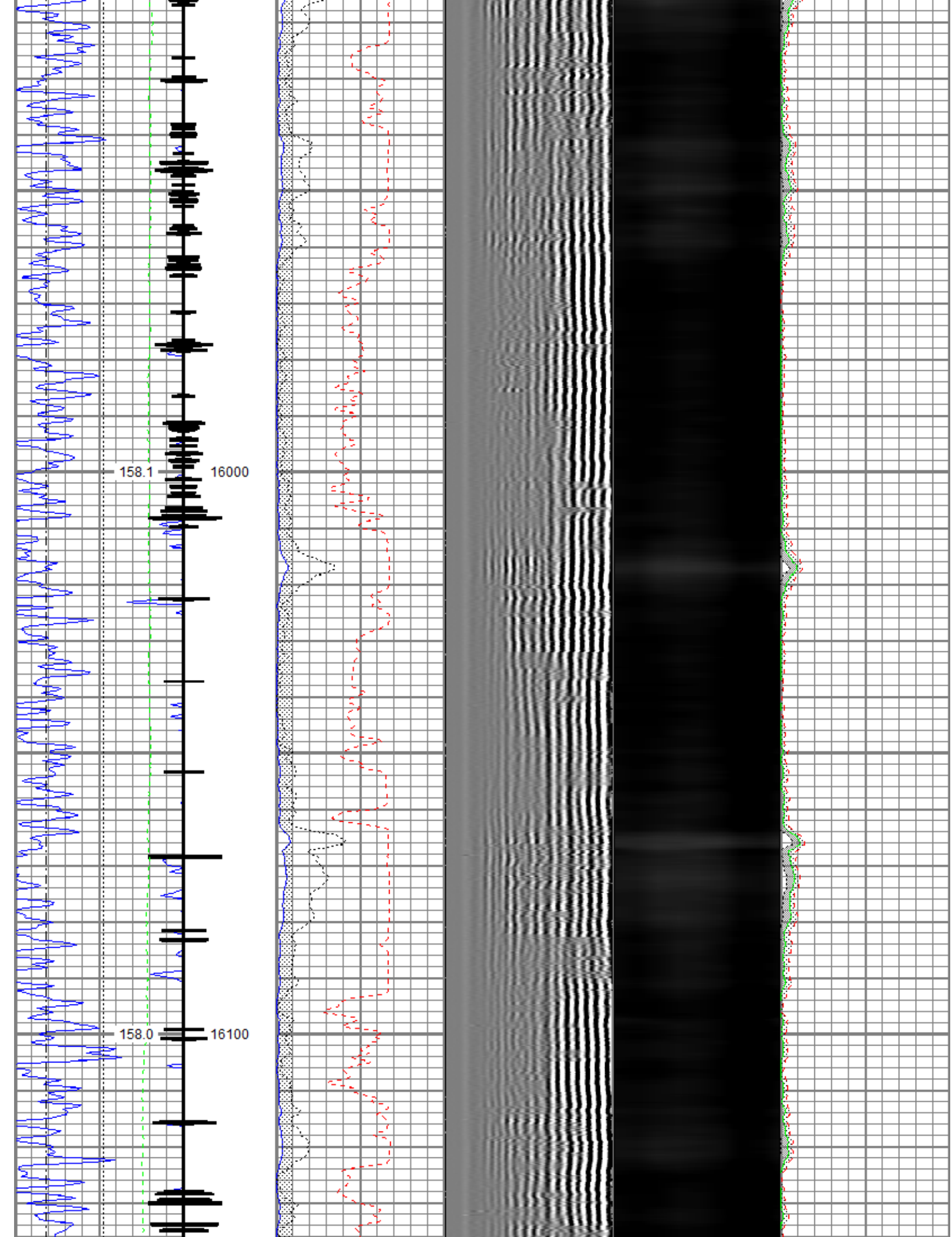




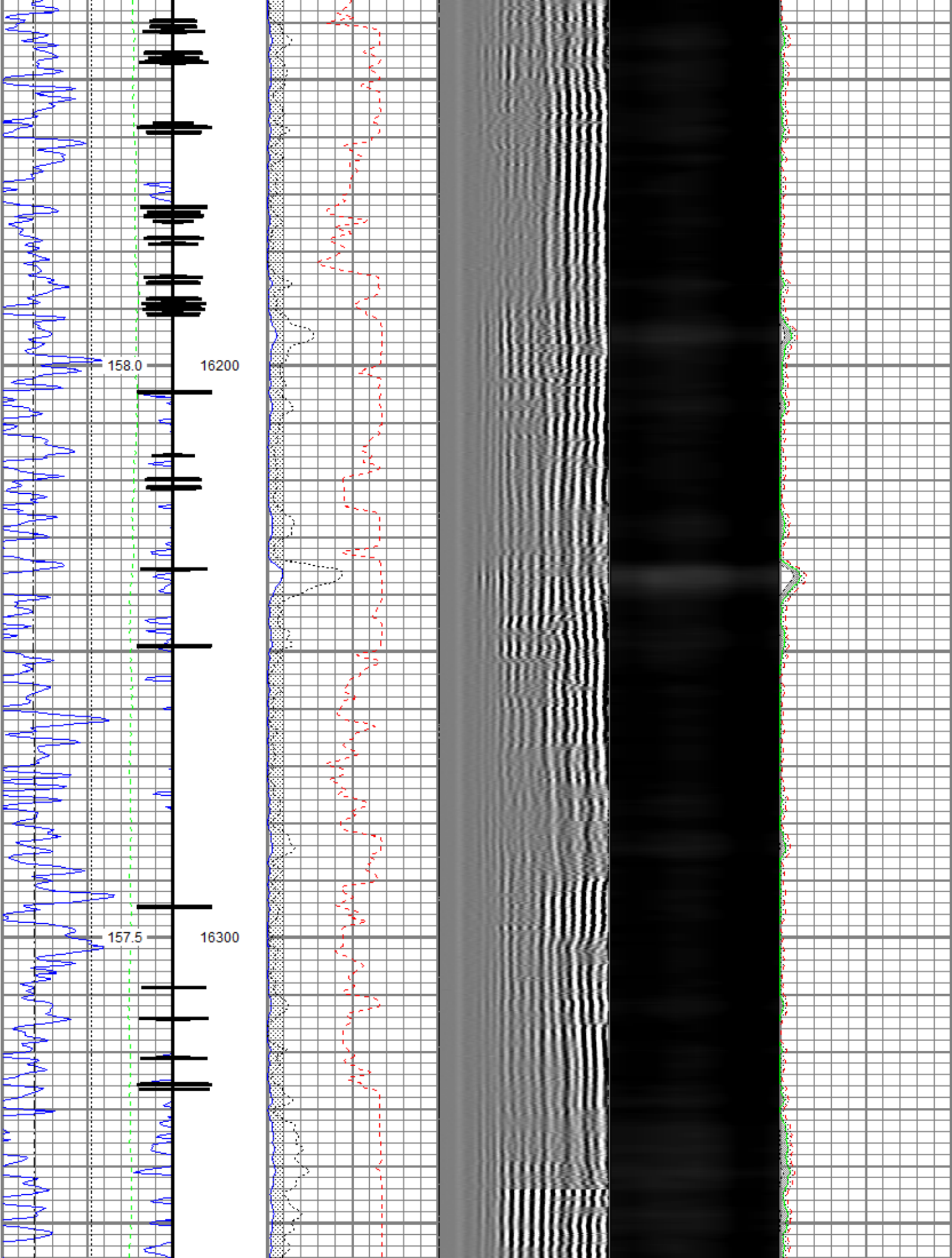


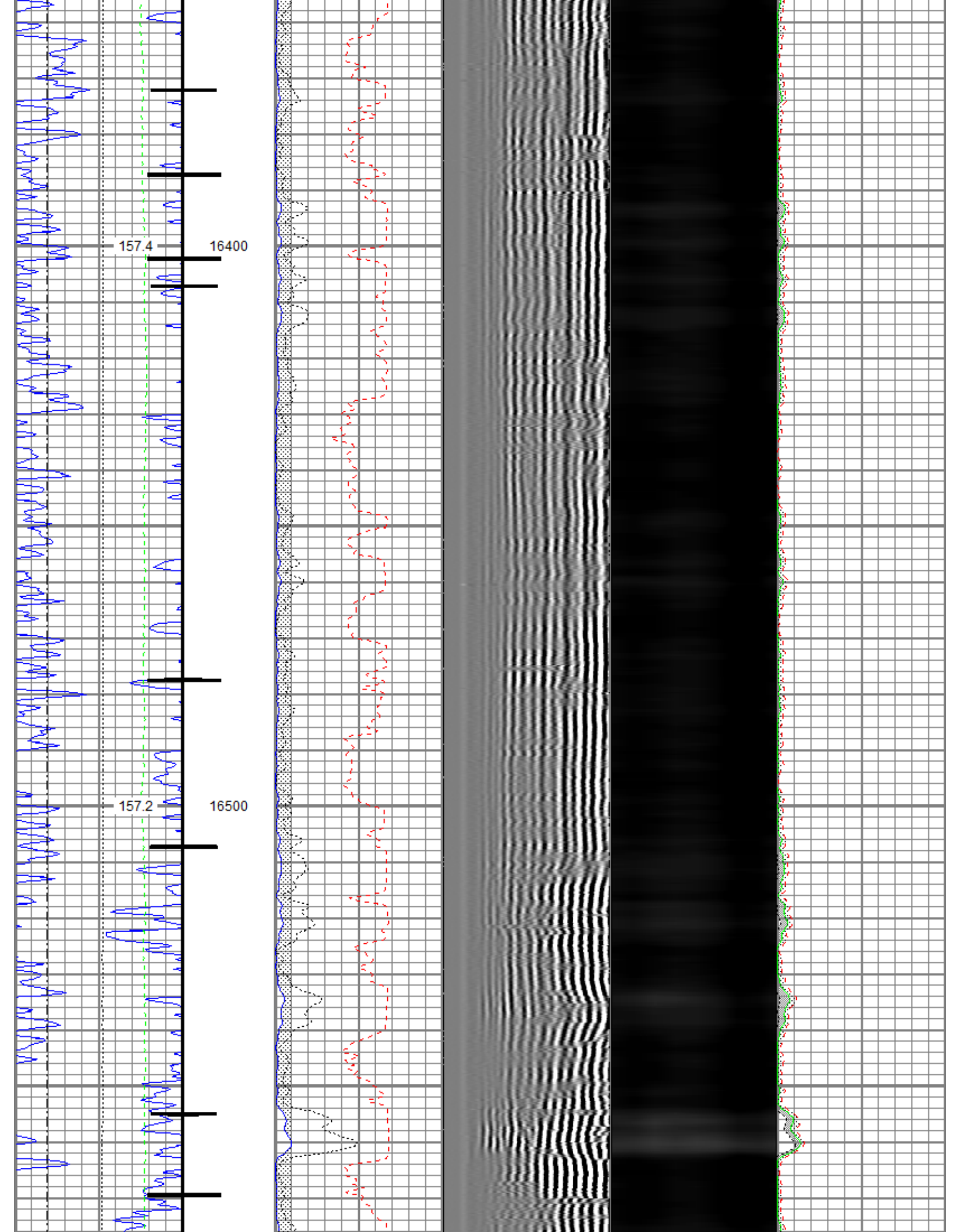


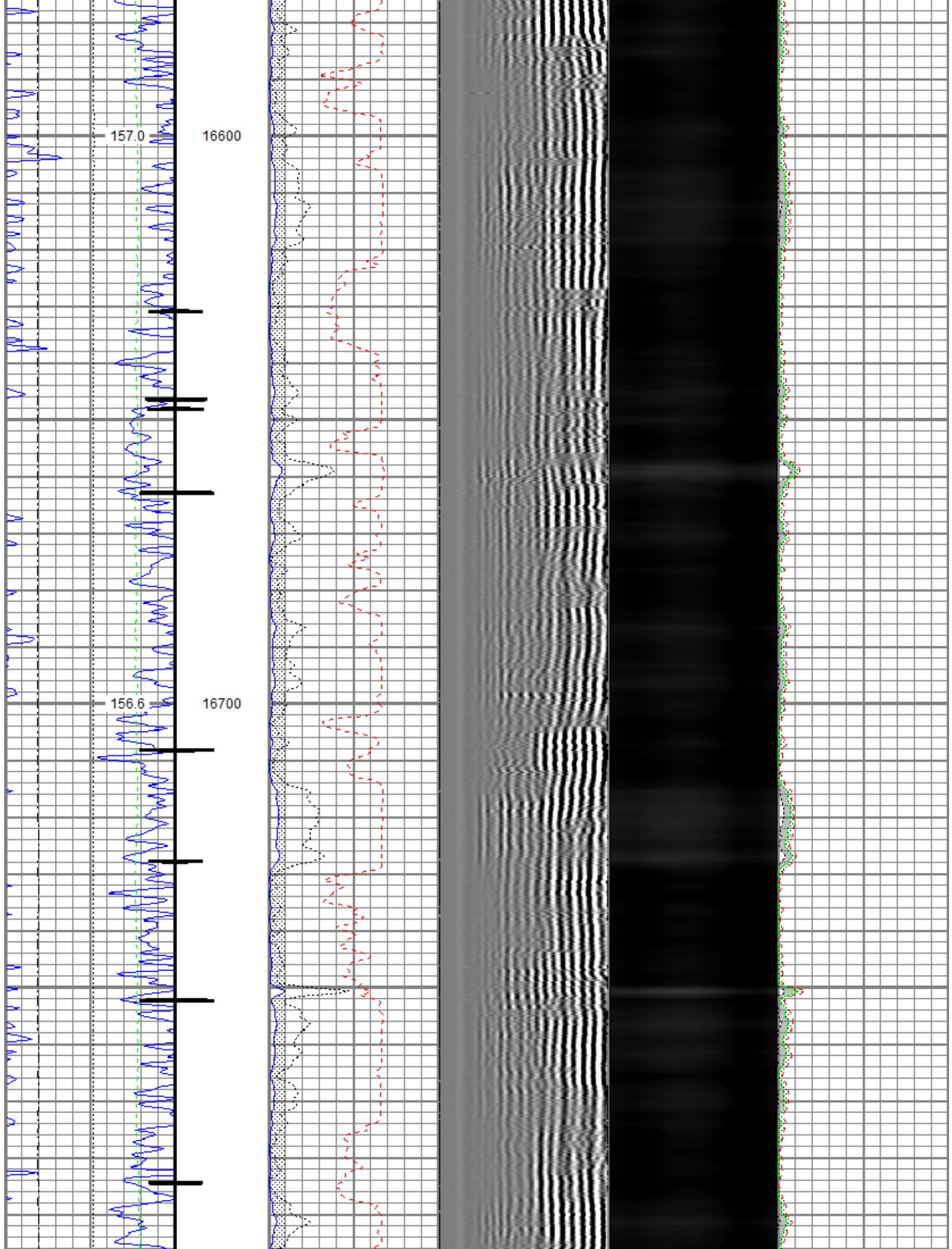




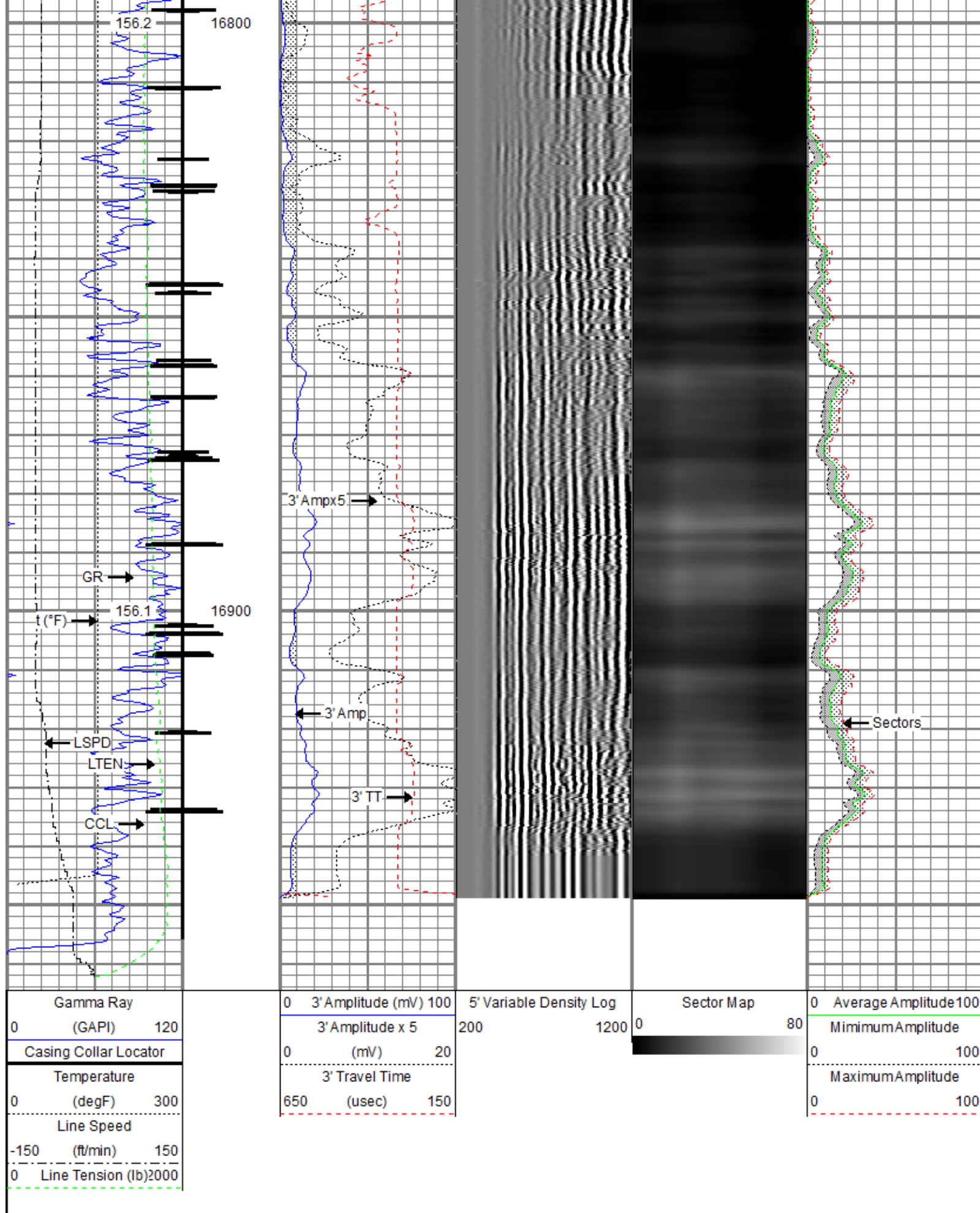








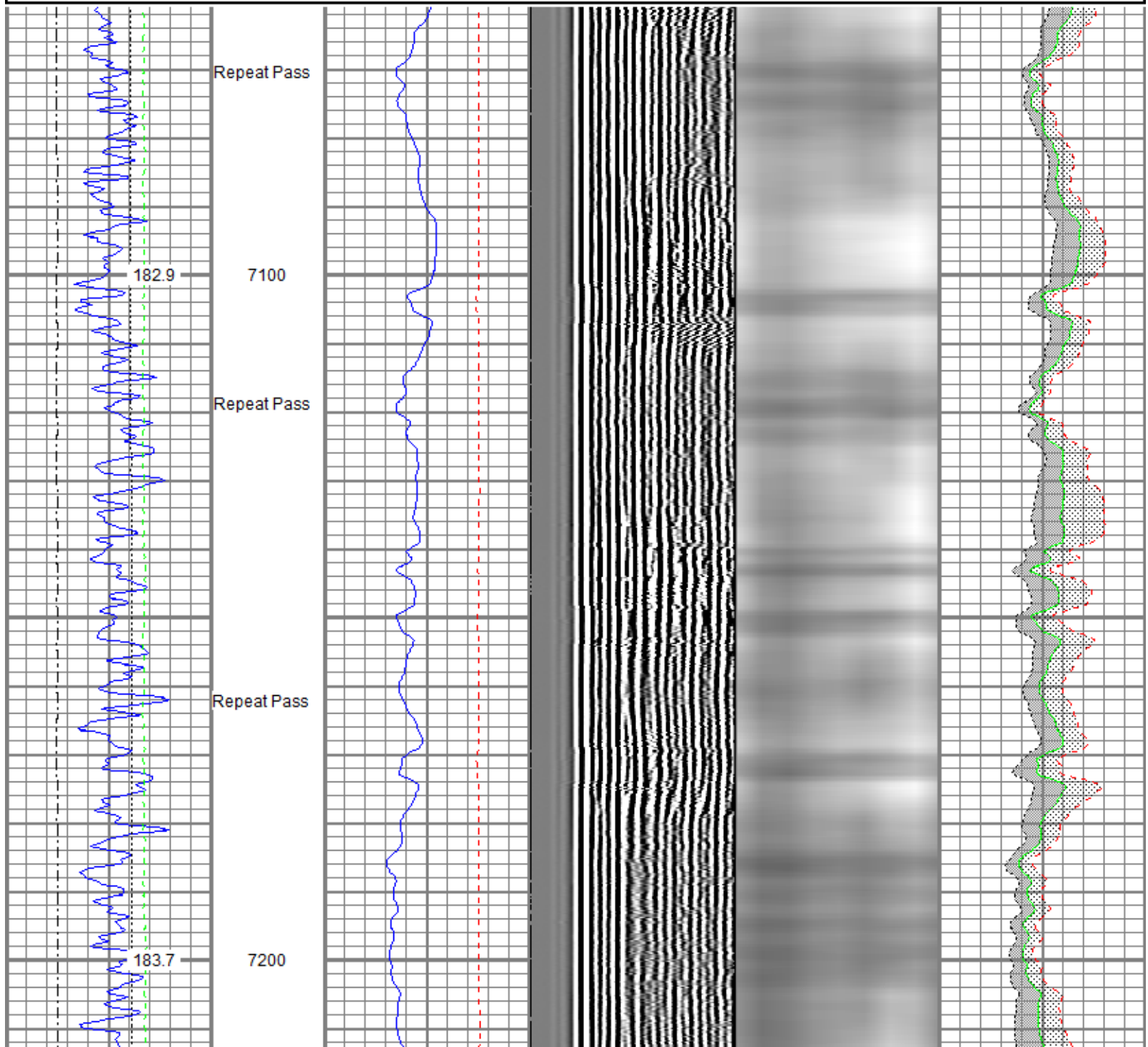


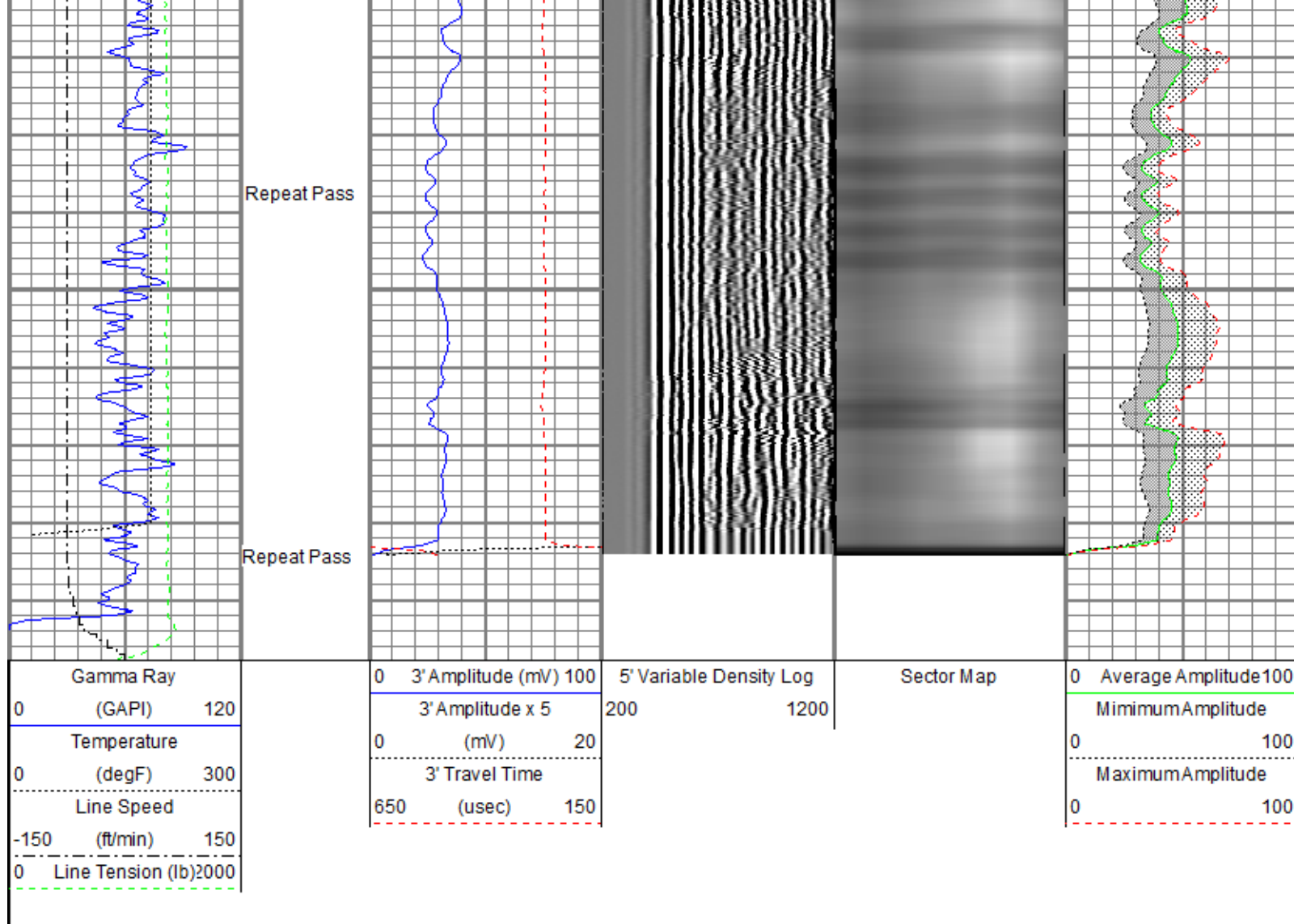


Repeat Pass

Database File: encana\_edithannduckworth4a-21h-0268cbl\_27-sept-2014.db  
 Dataset Pathname: repeat2  
 Presentation Format: radii  
 Dataset Creation: Sat Sep 27 14:55:42 2014 by Log SCH 111116  
 Charted by: Depth in Feet scaled 1:240

Gamma Ray (GAPI) 120	0 3' Amplitude (mV) 100 3' Amplitude x 5	5' Variable Density Log 200 1200	Sector Map	0 Average Amplitude 100 Minimum Amplitude
Temperature (degF) 300	0 (mV) 20			0 100
Line Speed (ft/min) 150	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100
Line Tension (lb) 2000				





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Titan_1_11_16	1.04	1.69	5.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Temp	16.68					
WVF3FT	14.57		Probe_RADII-C-2-3/4" (FW1305-098) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.21	2.75	100.00
WVFCAL	14.57					
WVFS1	14.57					
WVFS2	14.57					




WVFS3	14.57				
WVFS4	14.57				
WVFS5	14.57				
WVFS6	14.57				
WVFS7	14.57				
WVFS8	14.57				
WVF5FT	13.57				
RHeadVolt	10.34		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75
CCL	6.59				
GR	5.25	Probe_CCL_GR-2.75"Digital (FW1211-026) Probe 2-3/4" Digital CCL / Gamma Ray Combined	4.58	2.75	55.00
		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Dataset: encana_edithannduckworth4a-21h-0268cbl_27-sept-2014.db: field/well/run1/main					
Total Length: 23.47 ft					
Total Weight: 190.00 lb					
O.D.: 2.75 in					

Calibration Report		
Database File:	encana_edithannduckworth4a-21h-0268cbl_27-sept-2014.db	
Dataset Pathname:	main	
Dataset Creation:	Sat Sep 27 15:42:11 2014 by Log SCH 111116	
Gamma Ray Calibration Report		
Serial Number:	FW1211-026	
Tool Model:	2.75"Digital	
Performed:	Mon Mar 25 19:39:06 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.5	cps
Sensitivity:	0.6667	GAPI/cps
Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1305-098	
Tool Model:	2-3/4"	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	62.663	ft
Master Calibration, performed Sat Sep 27 14:18:53 2014:		

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.764	0.800	81.196	106.333	-0.003
CAL	1.001	1.039				
5'	0.015	0.657	0.800	81.196	125.231	-1.041
SUM						
S1	0.021	0.826	0.000	100.000	124.185	-2.604
S2	0.008	0.876	0.000	100.000	115.288	-0.975
S3	0.008	0.863	0.000	100.000	116.912	-0.942
S4	0.008	0.831	0.000	100.000	121.579	-1.028
S5	0.008	0.787	0.000	100.000	128.397	-1.030
S6	0.008	0.732	0.000	100.000	138.084	-1.070
S7	0.008	0.670	0.000	100.000	150.996	-1.161
S8	0.008	0.697	0.000	100.000	145.117	-1.134

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.001	1.039	1.000	0.000

Air Zero Calibration, performed Sat Sep 27 12:11:56 2014:						
	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	

	Company	Encana Oil And Gas	
	Well	Edith Ann Duckworth 4A-21H-0268	
	Field	Wattenberg	
	County	Weld	
	State	Colorado	Country