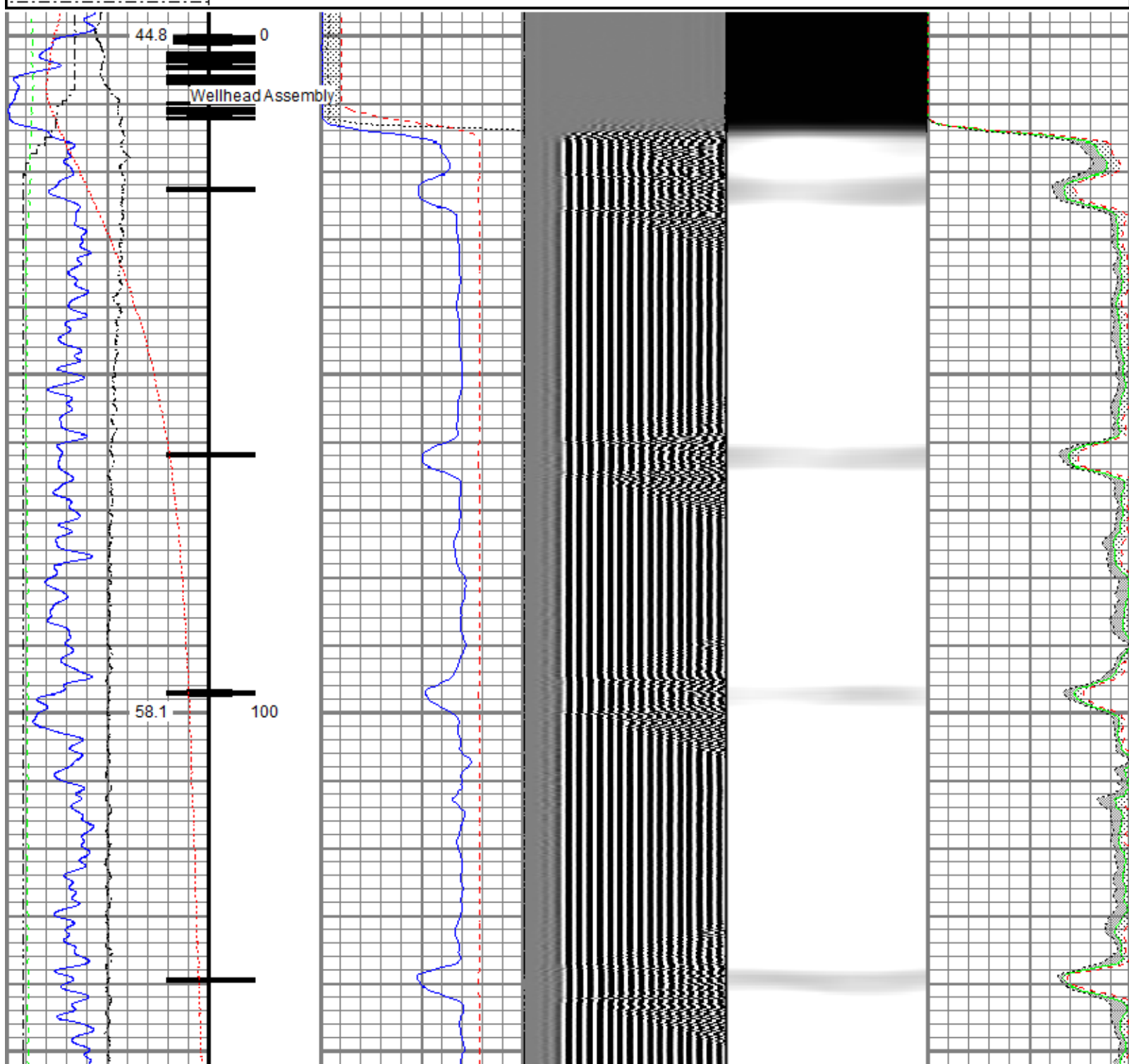
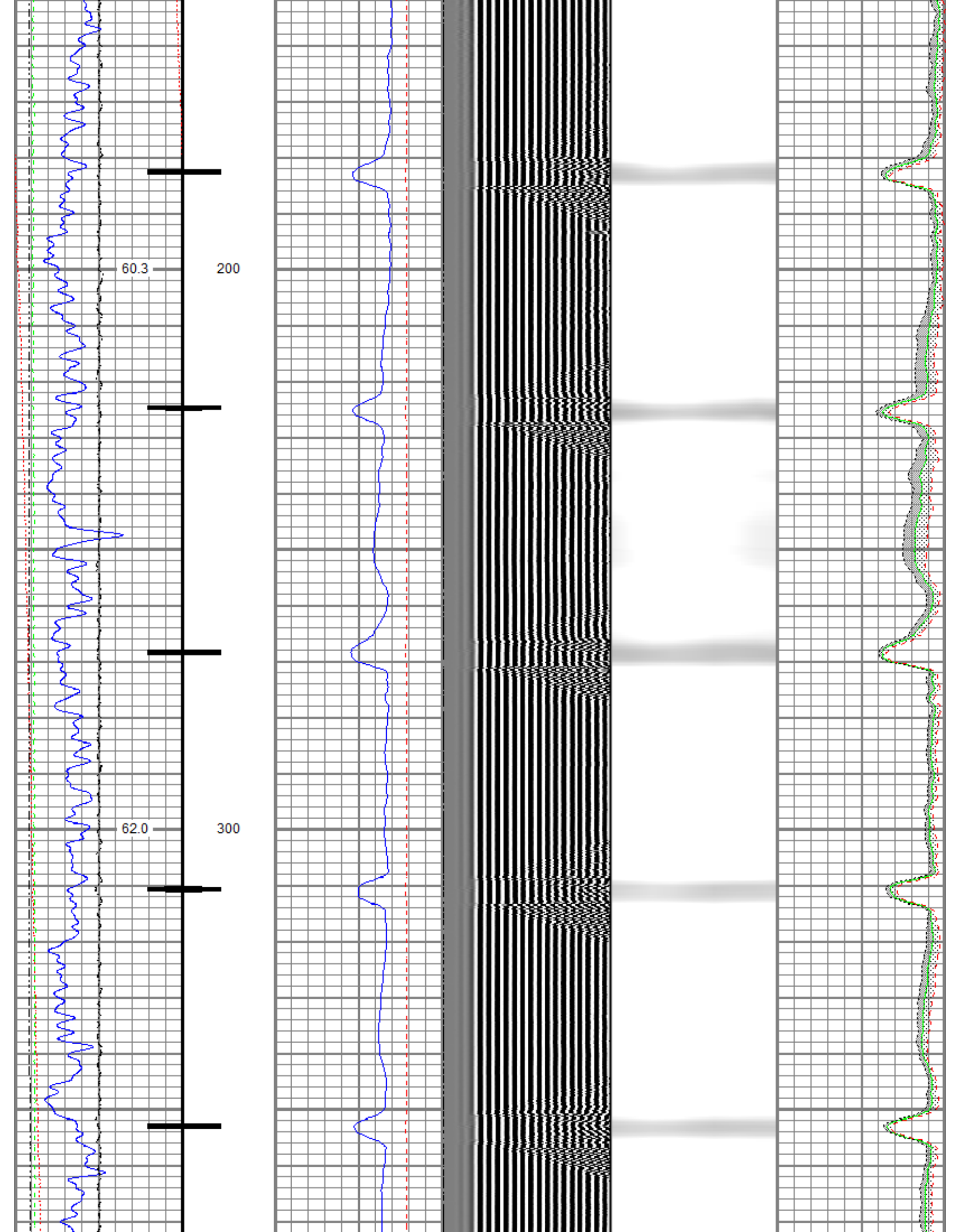


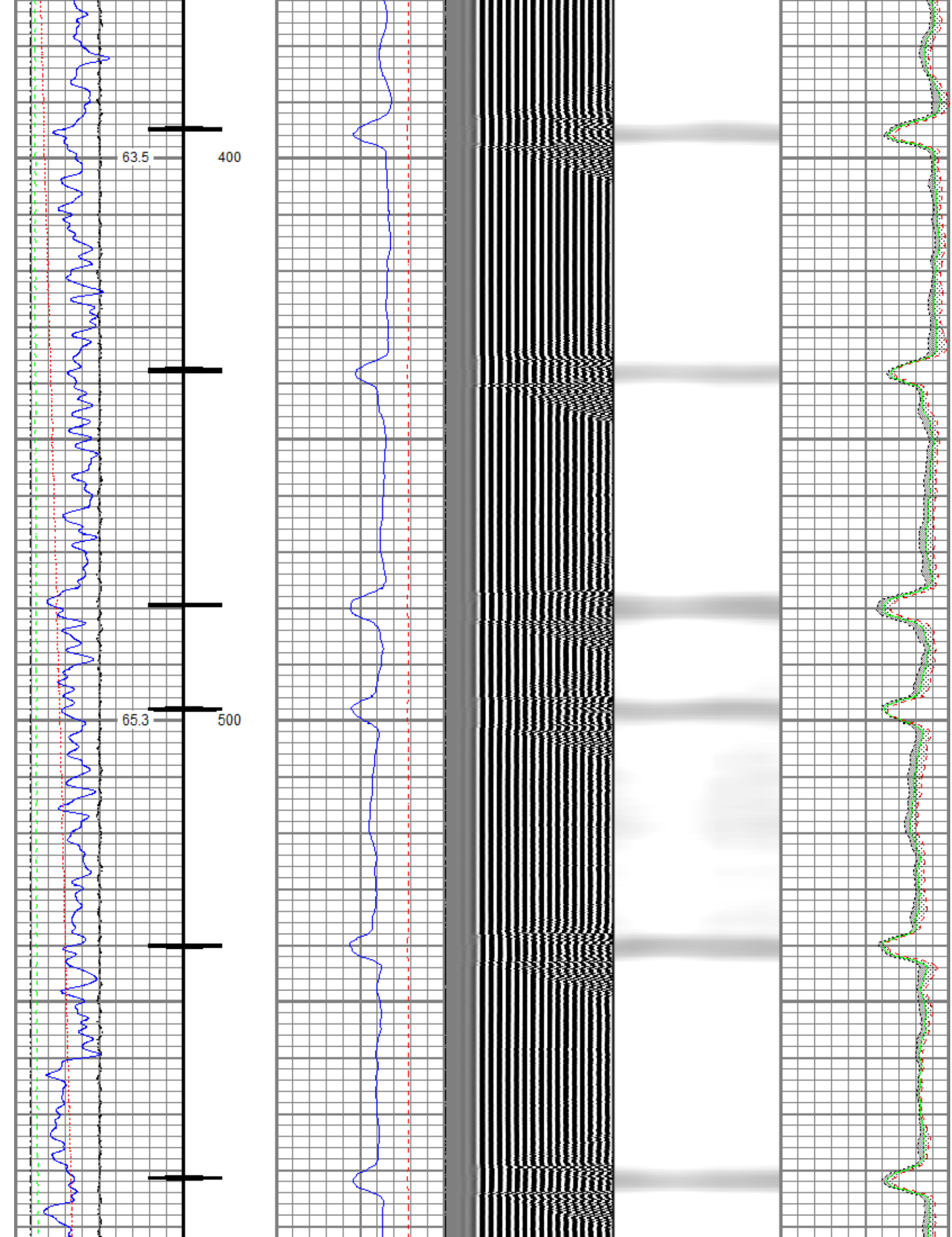


Database File	petro\petro_bef west 17_rbl_04-02-19\processed_petro_bef west 17_rbl_04-02-19.db
Dataset Pathname	Main.3
Presentation Format	ros_radri
Dataset Creation	Tue Apr 02 10:54:25 2019
Charted by	Depth in Feet scaled 1:240

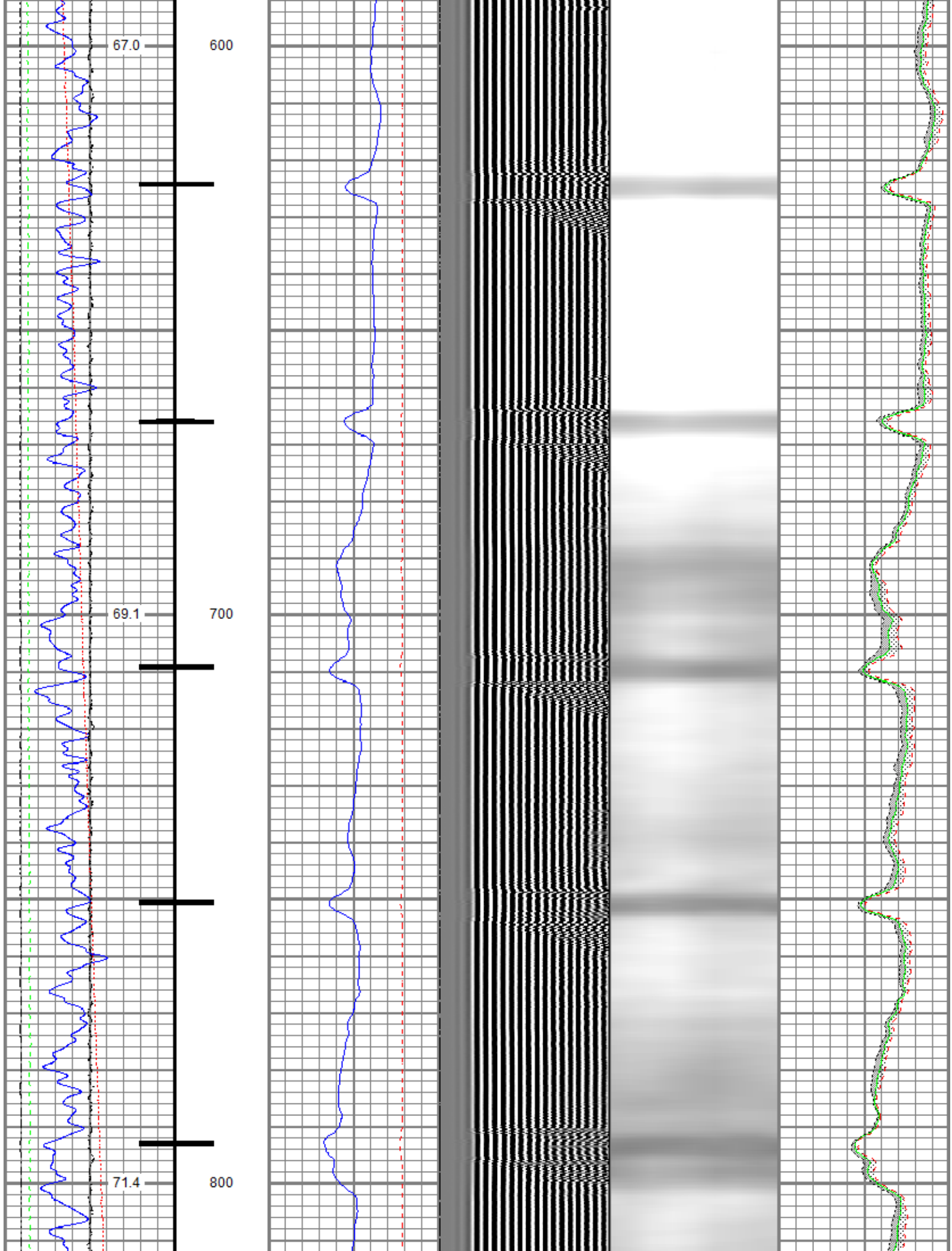
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200	1200		Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150					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

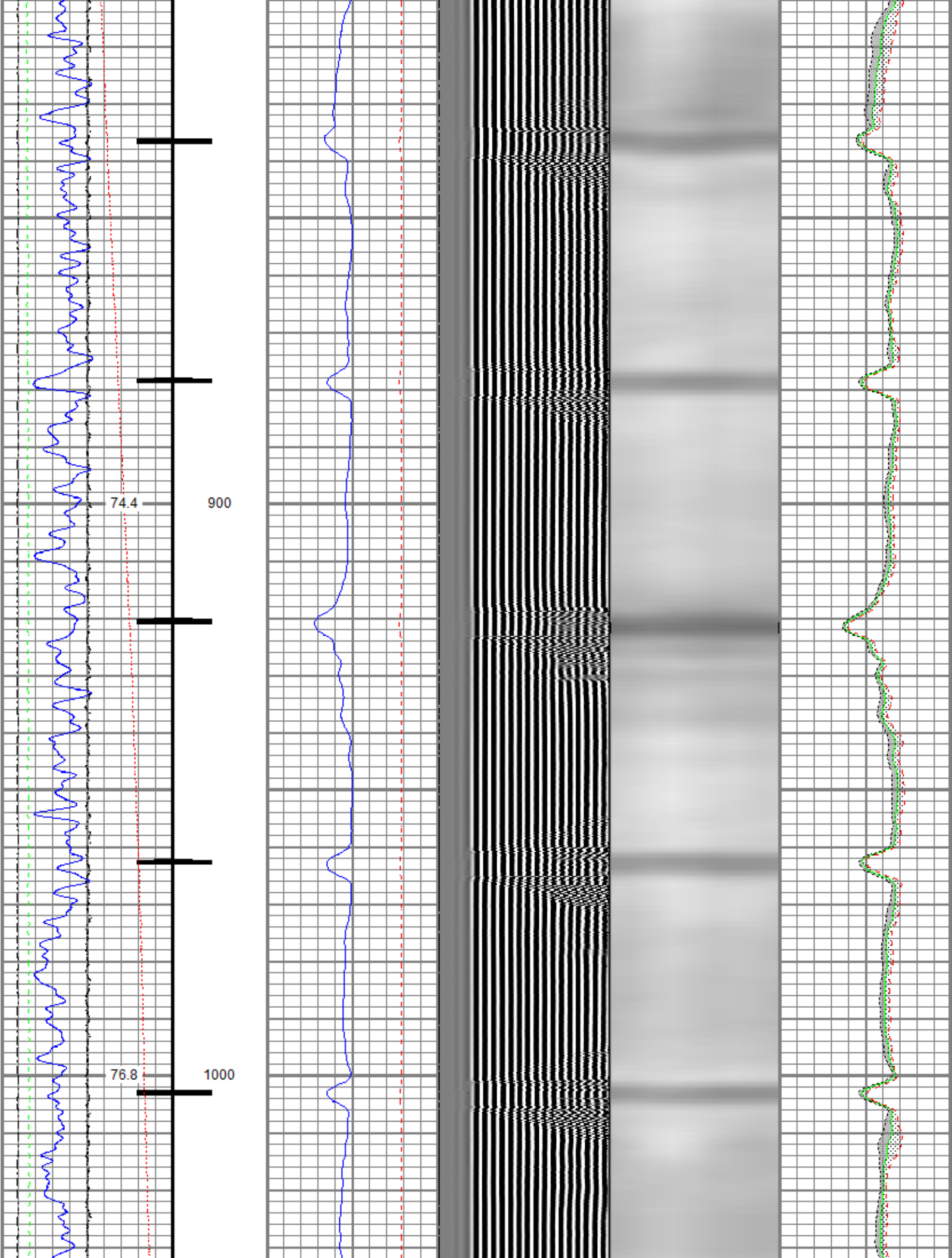


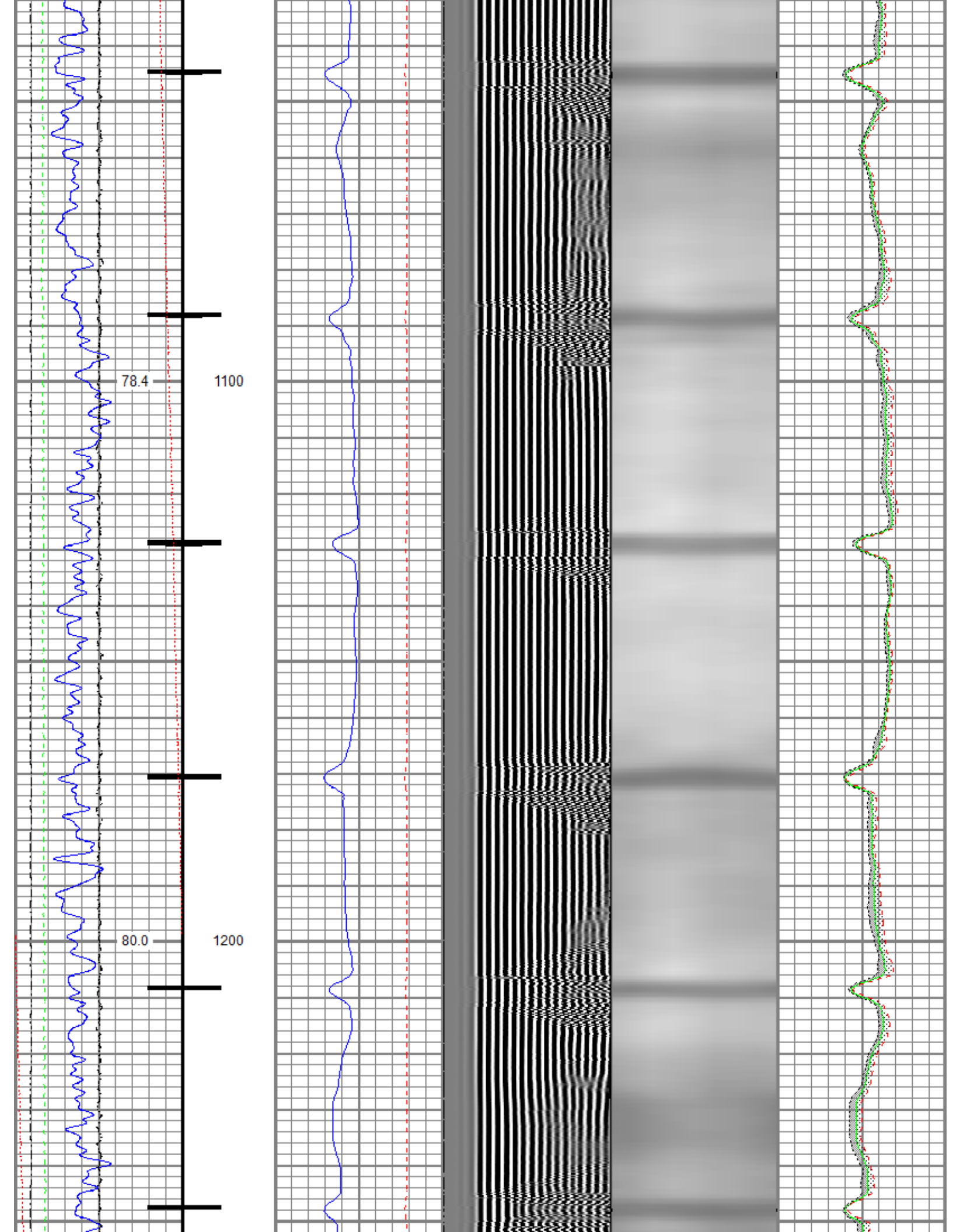


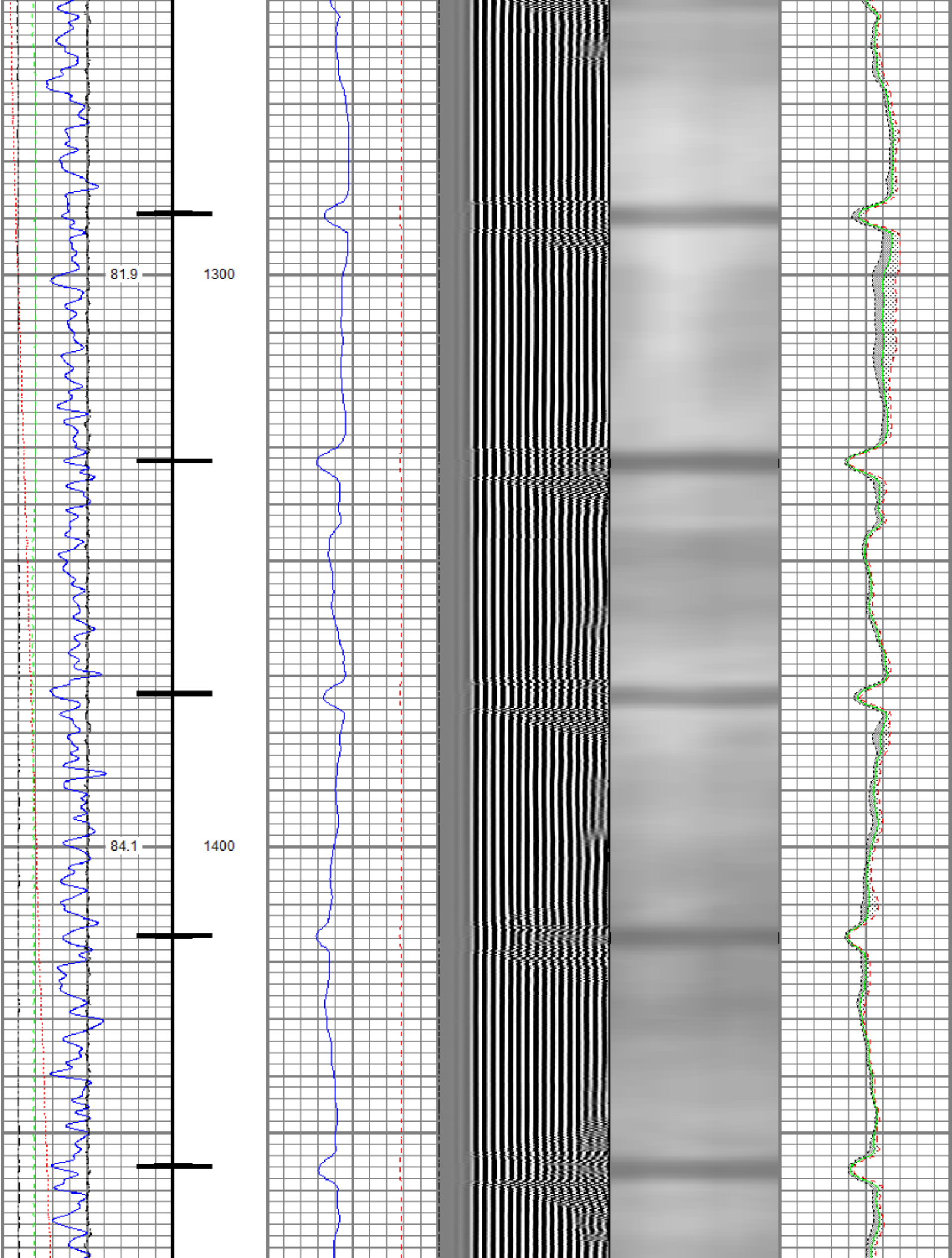




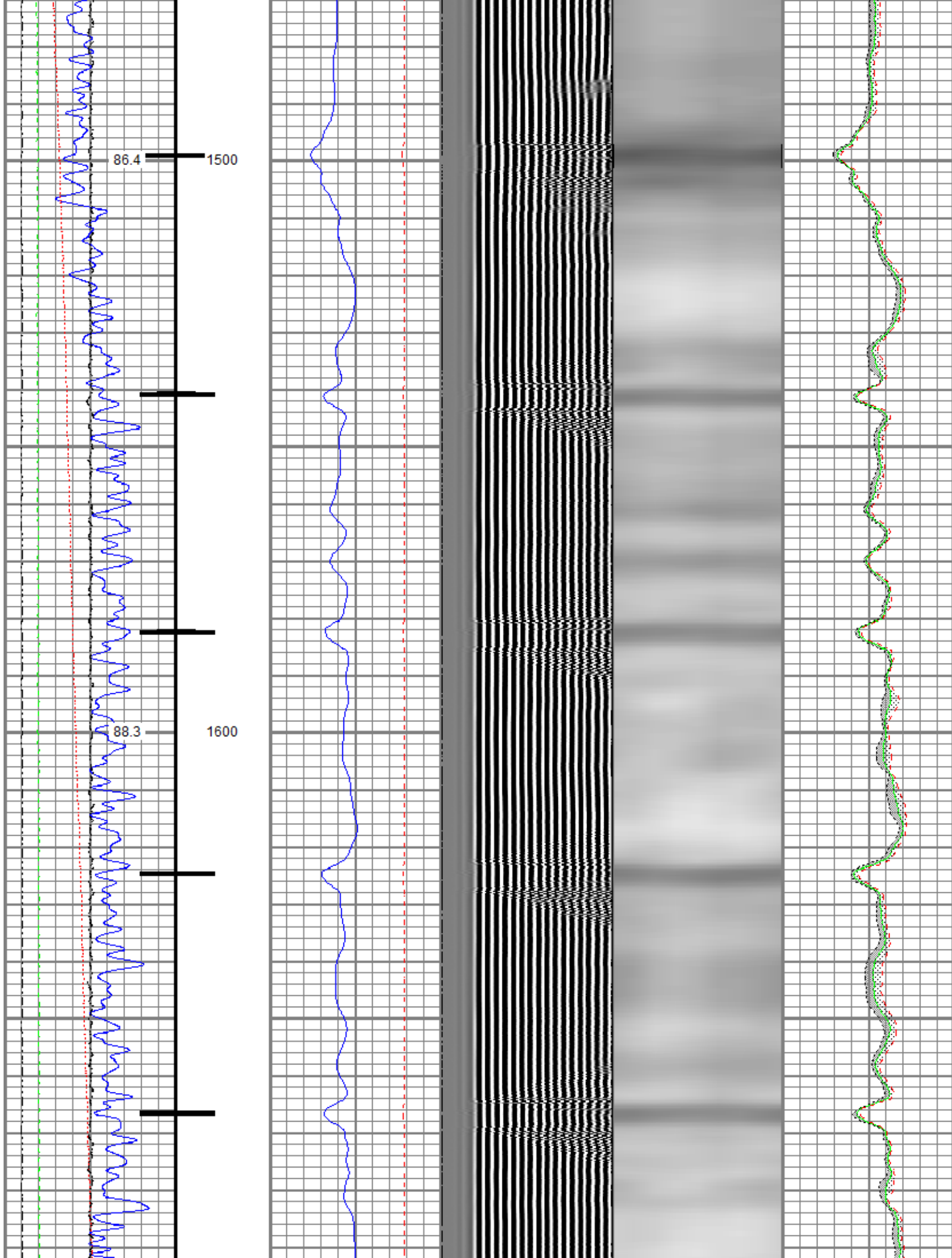


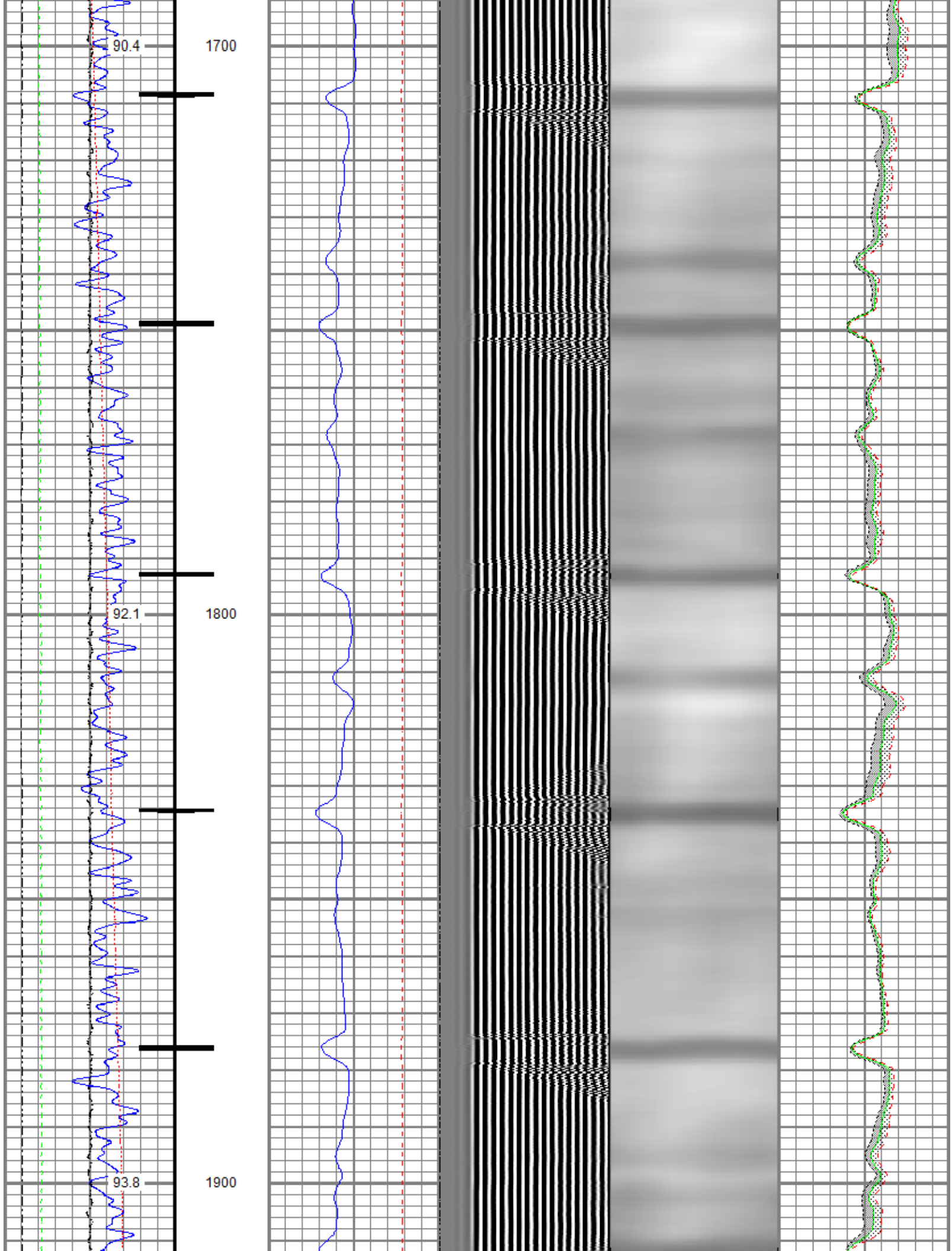


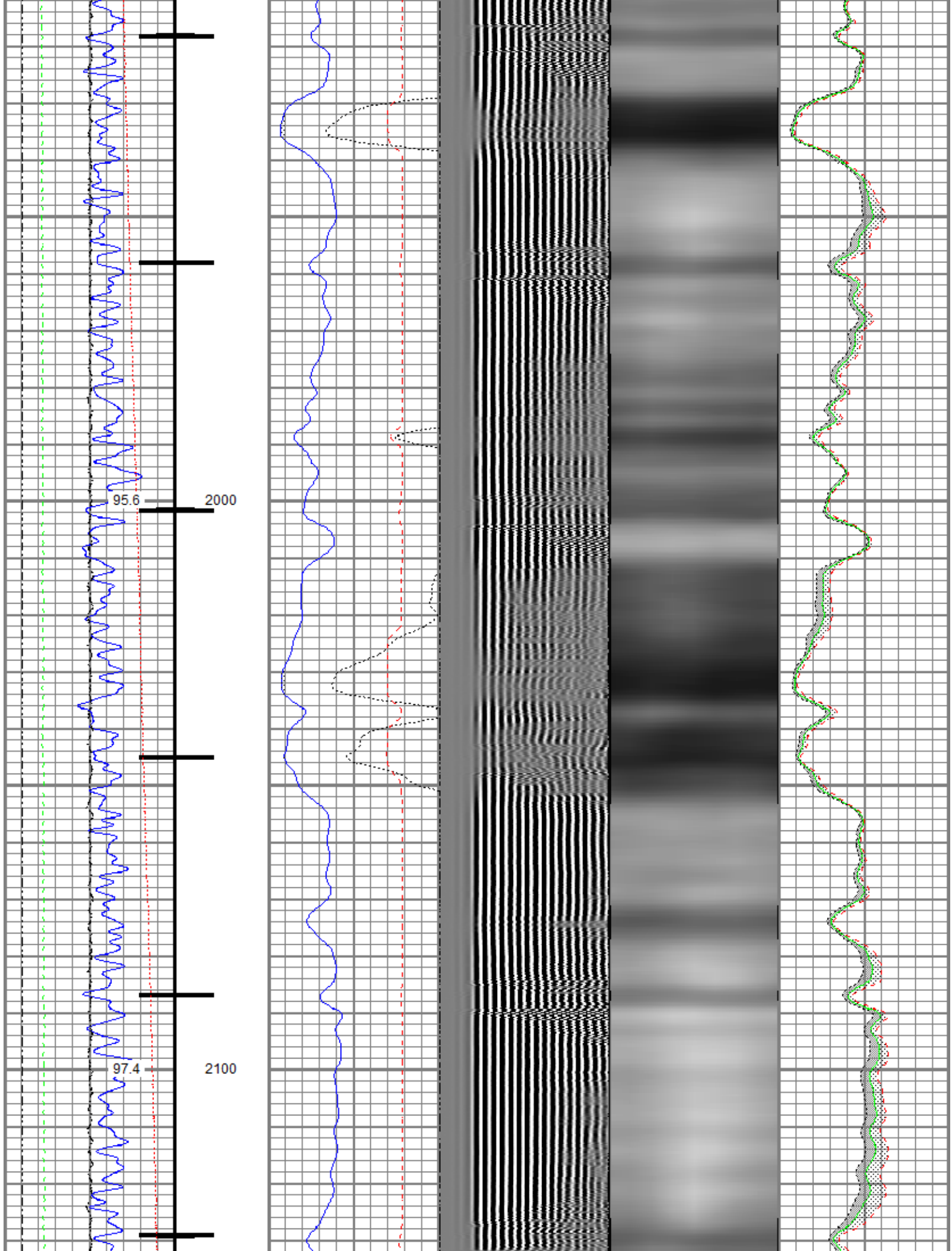




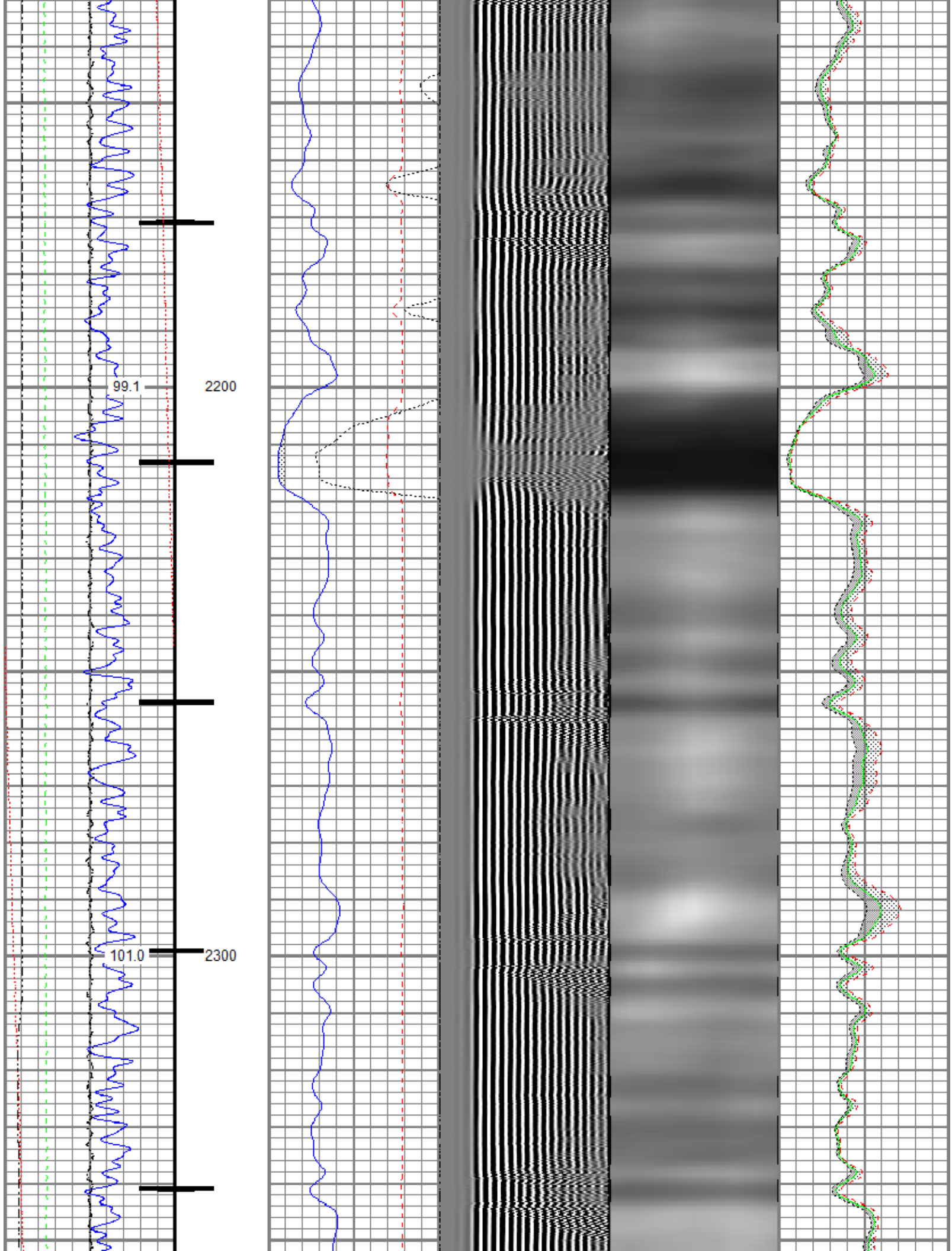




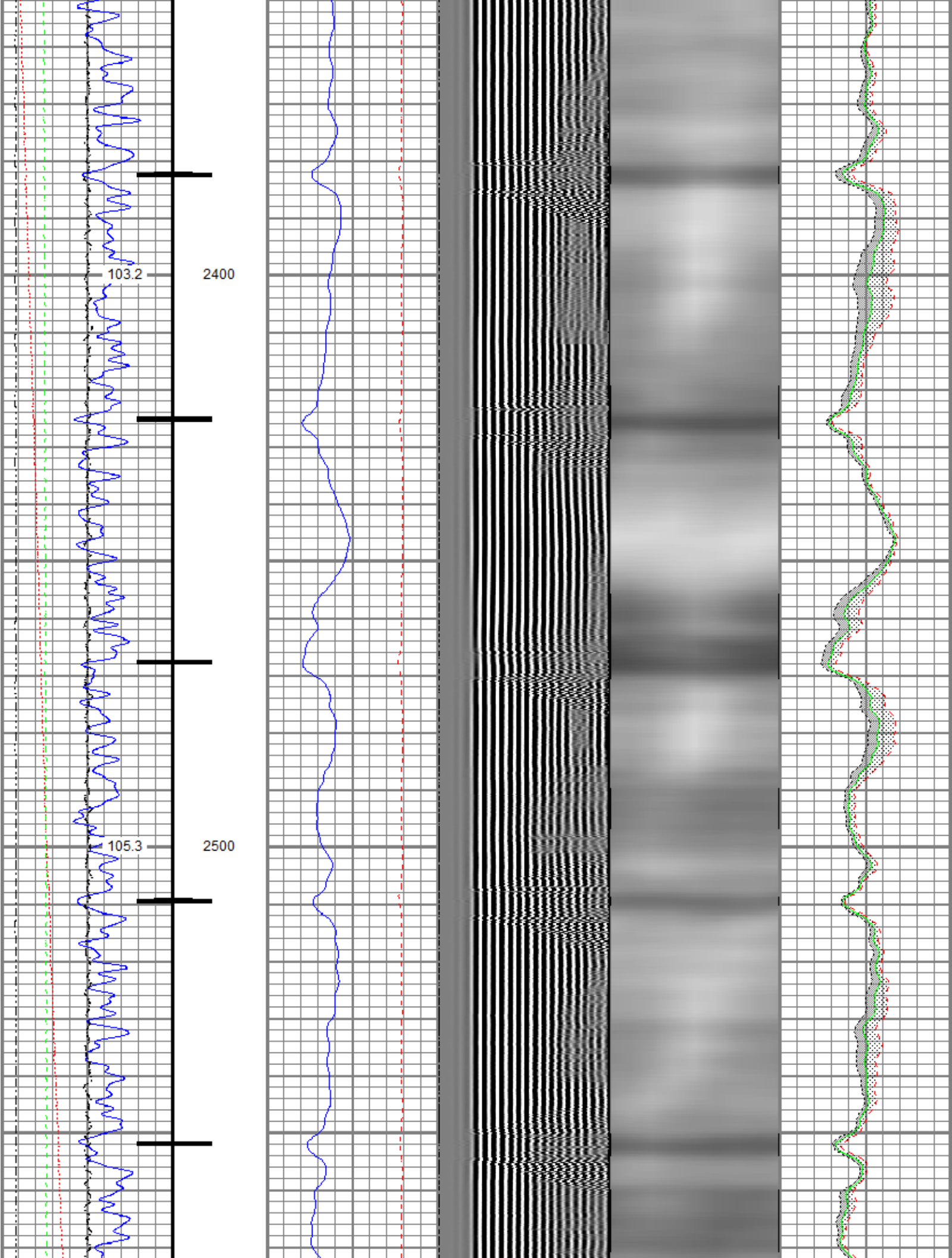


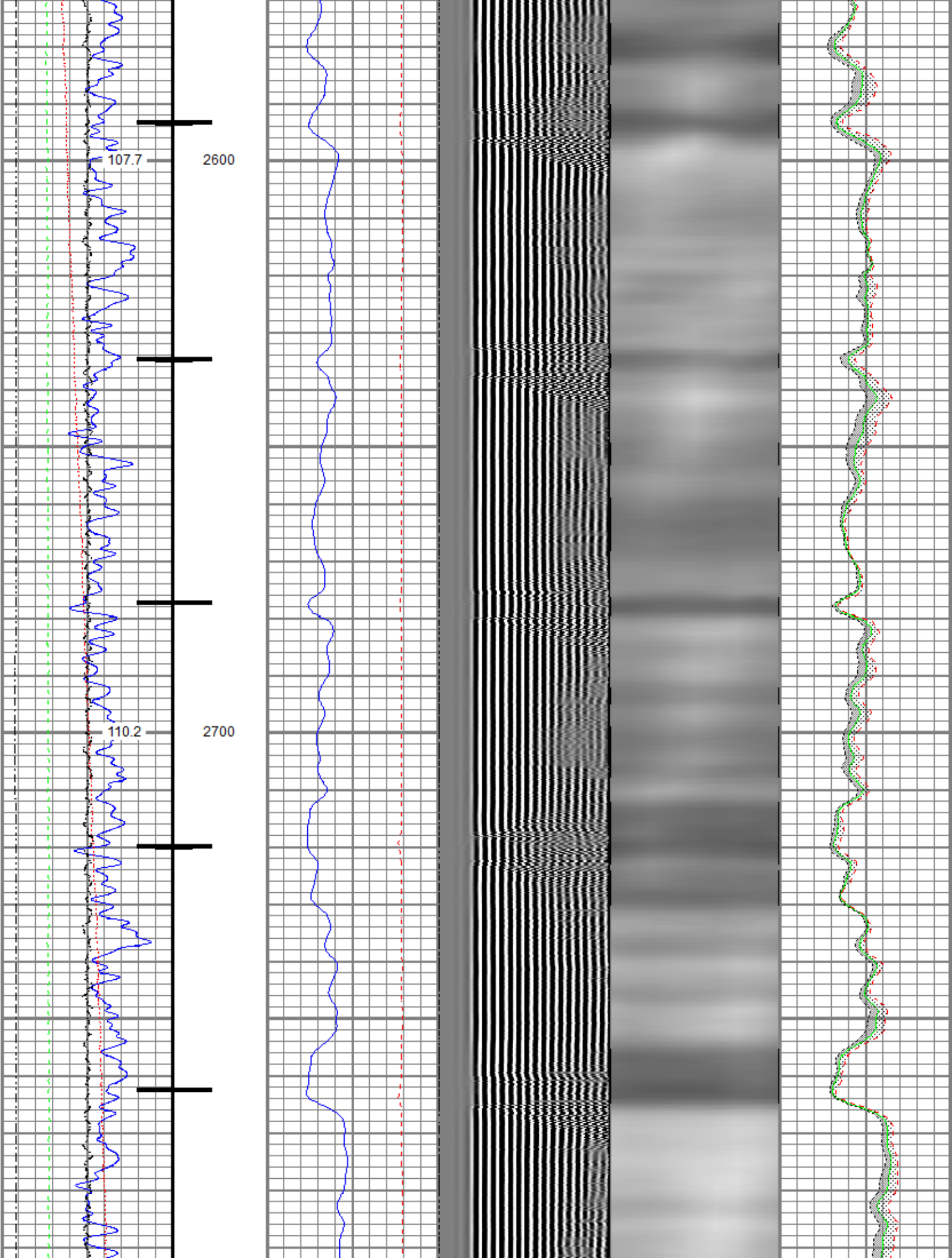


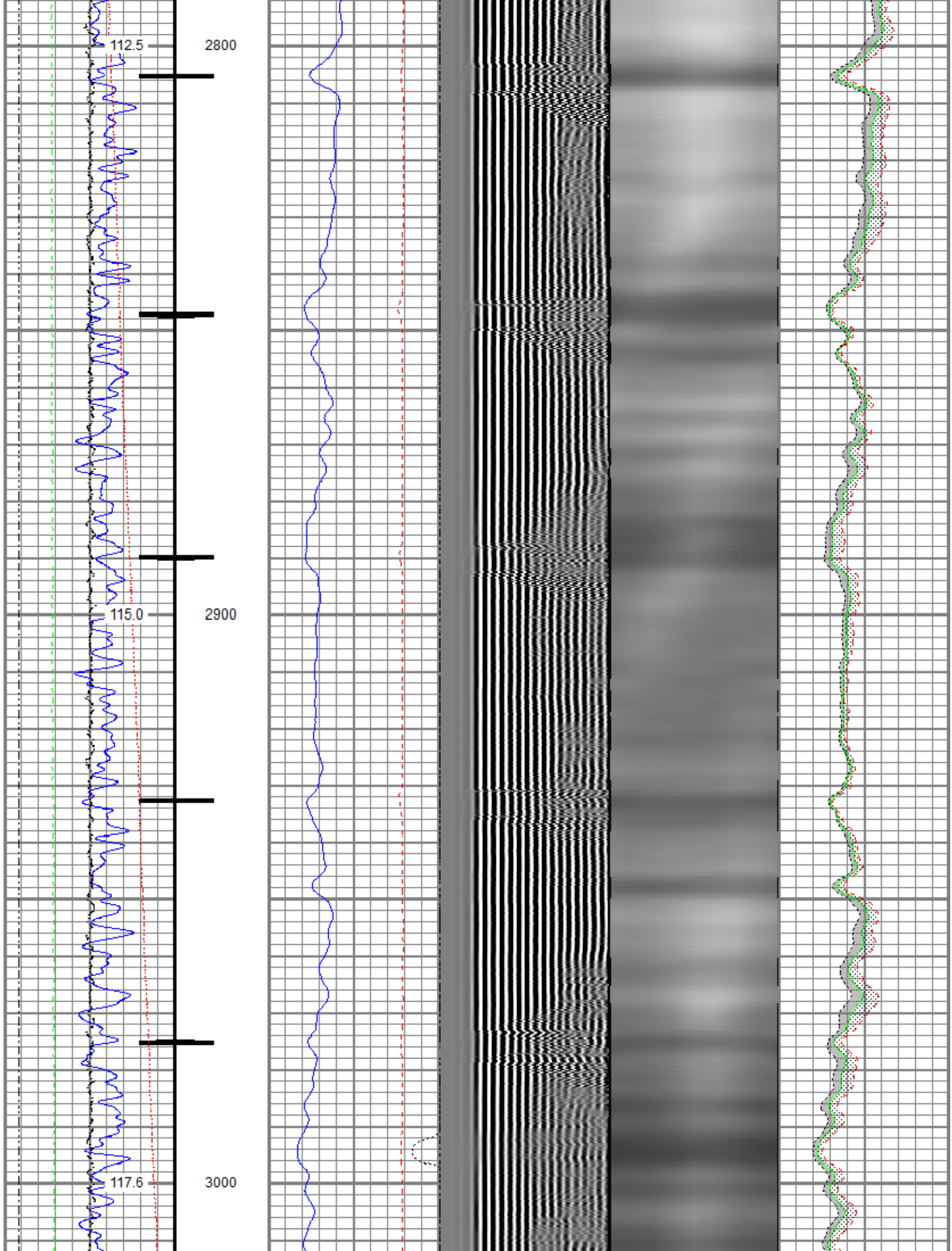




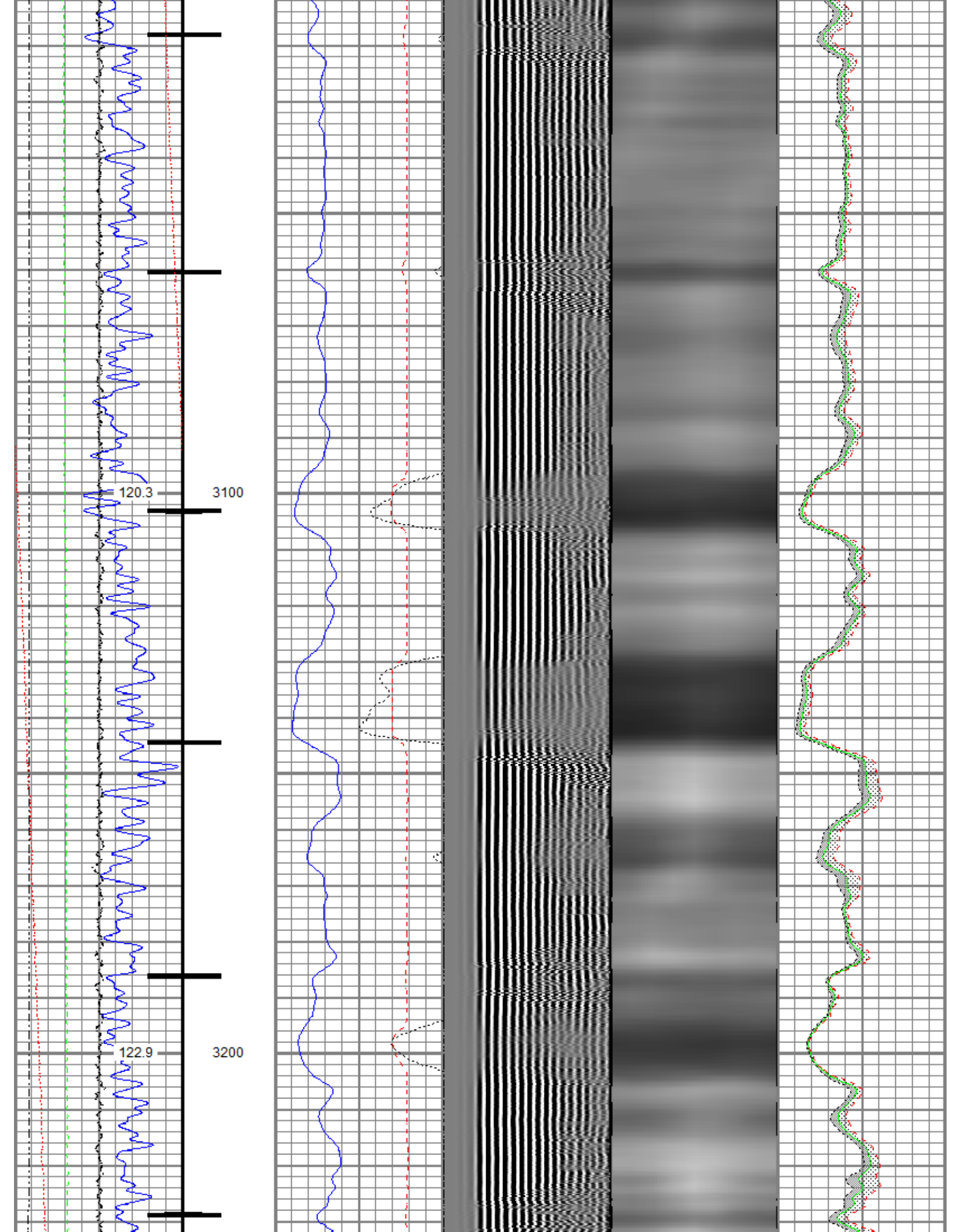




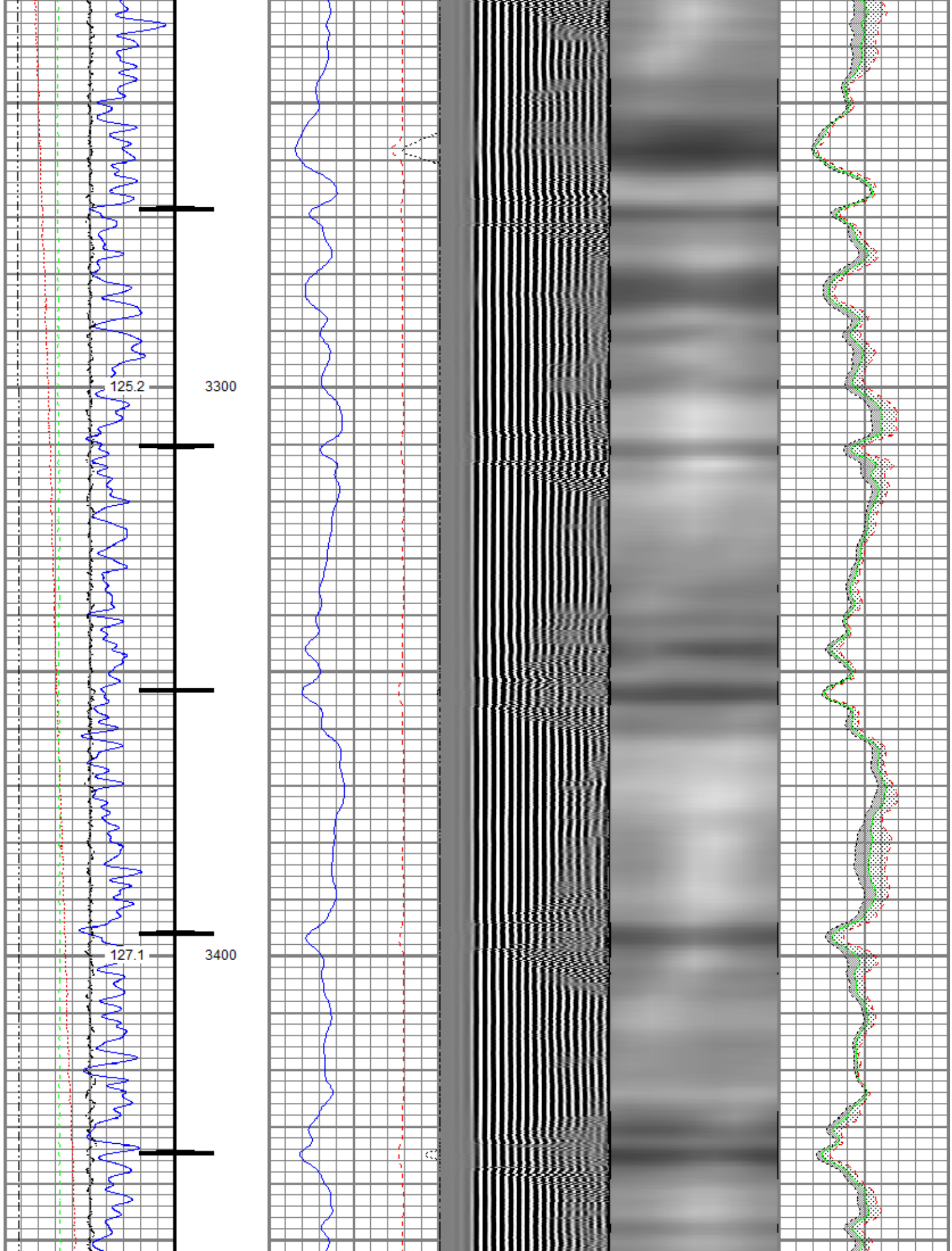


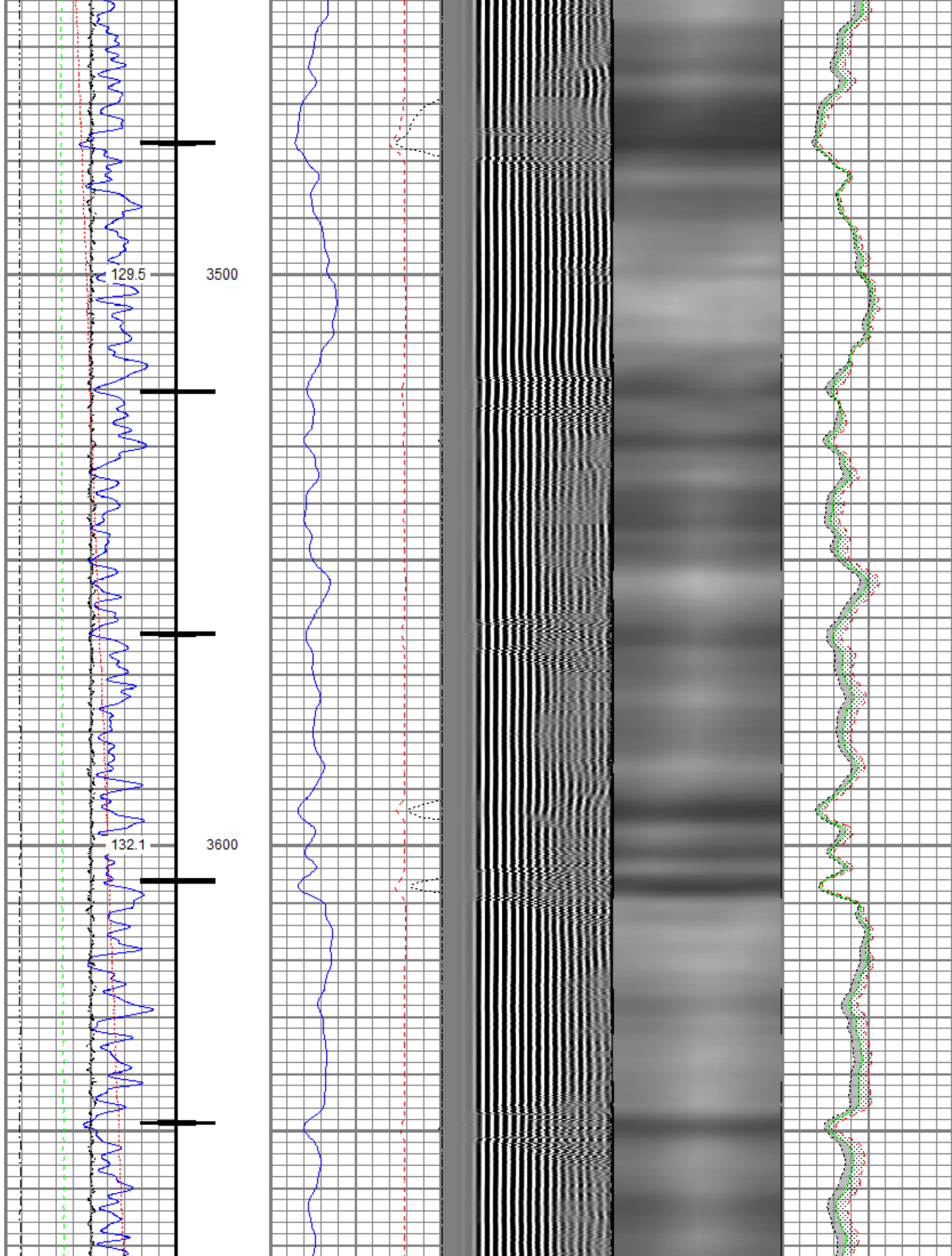


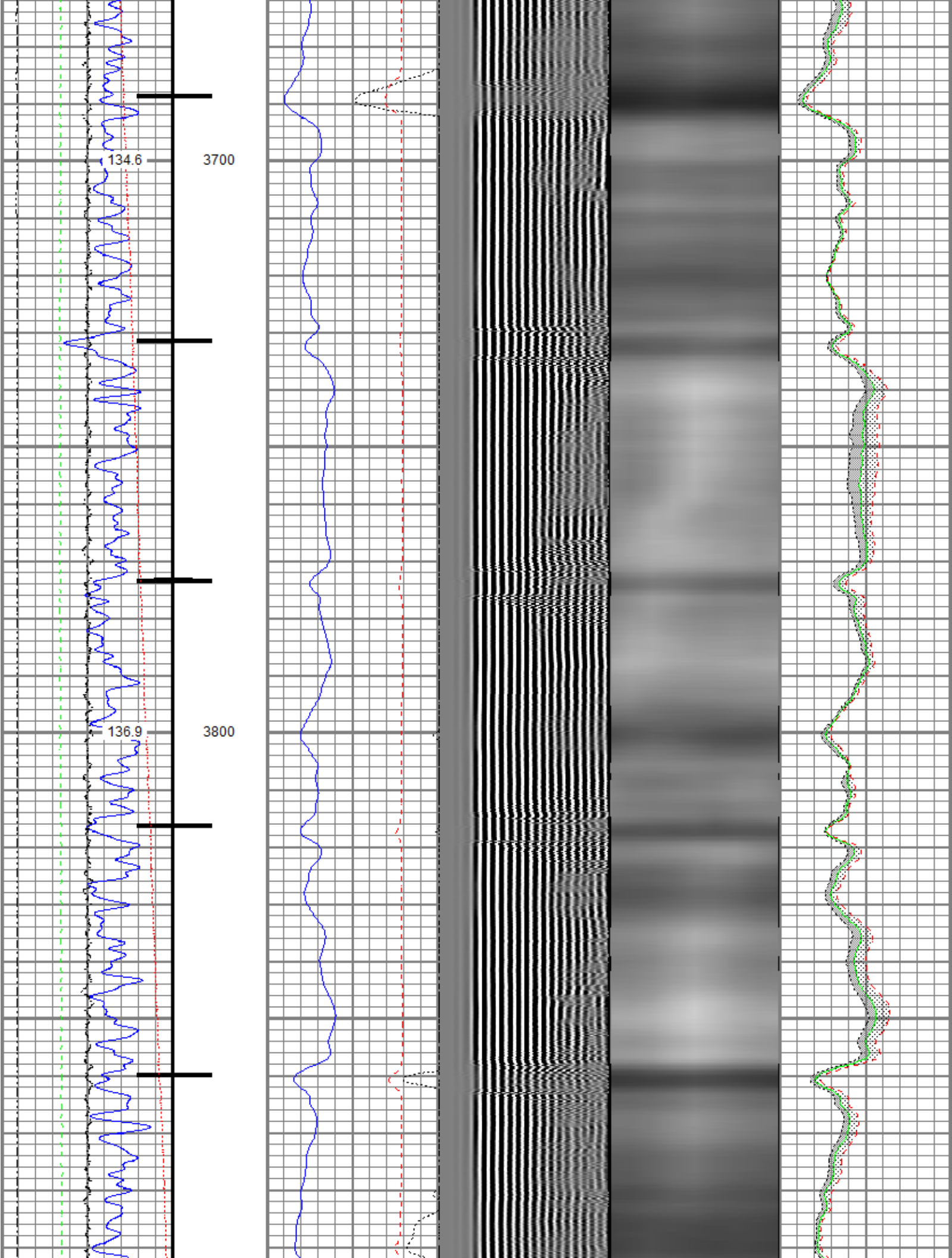




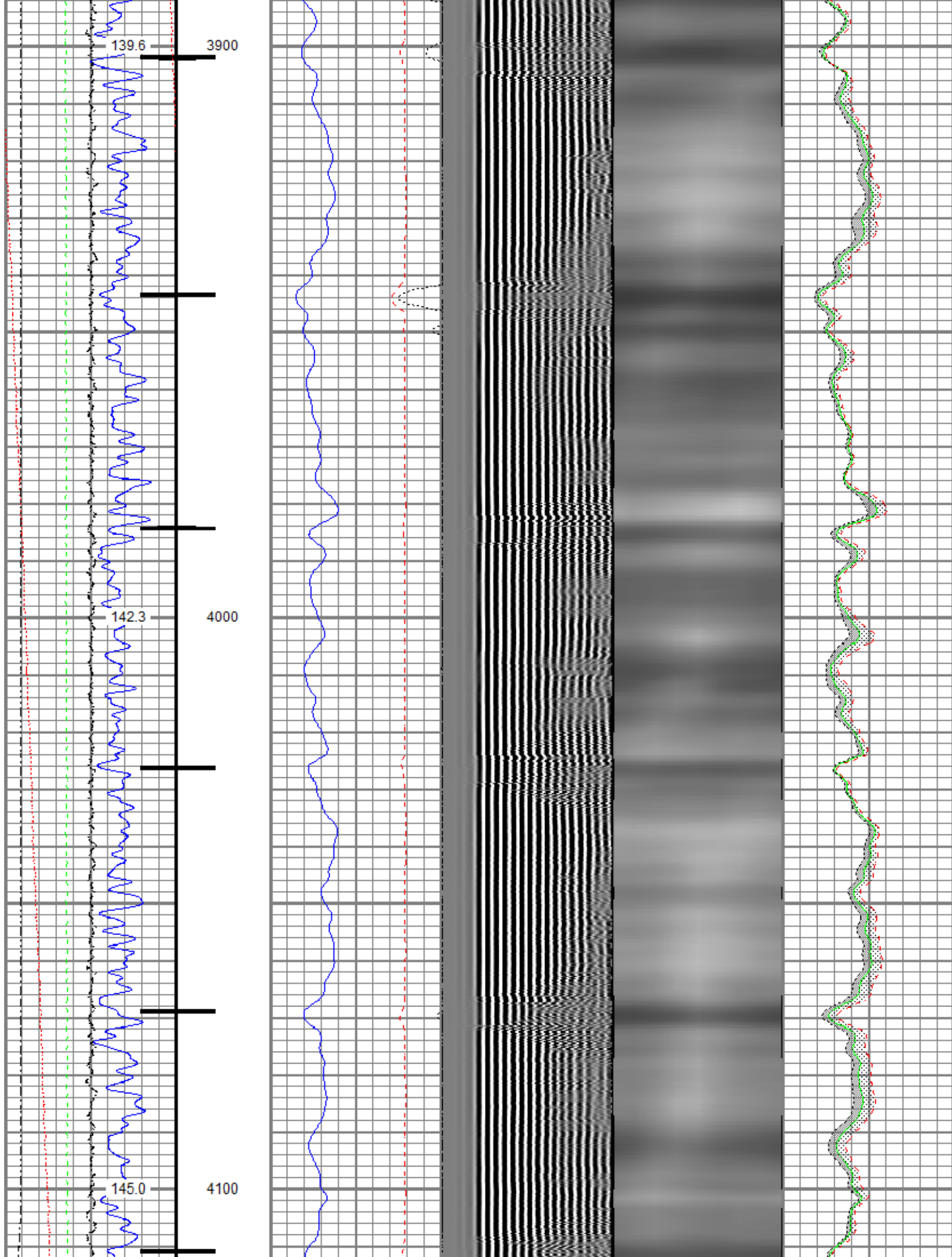




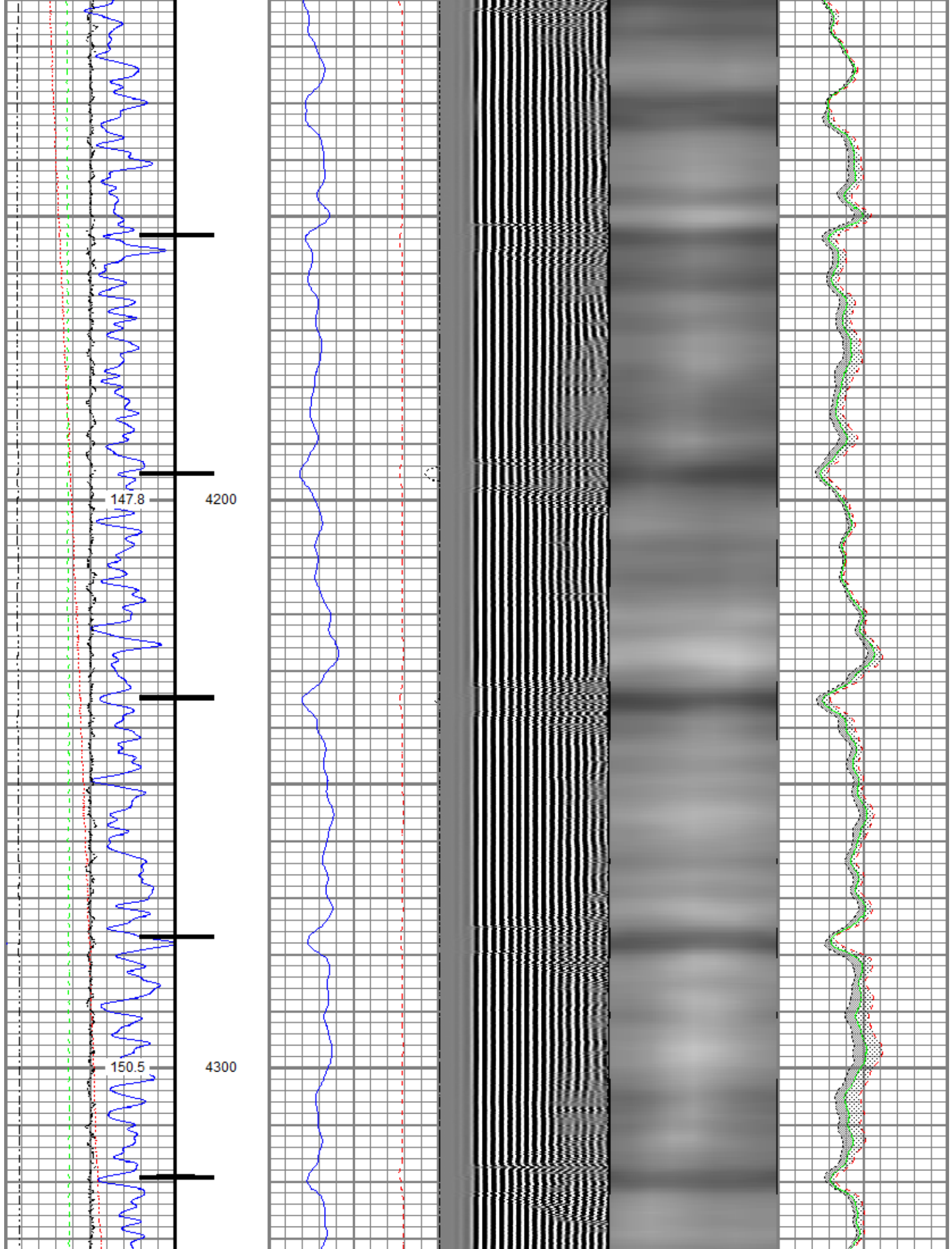


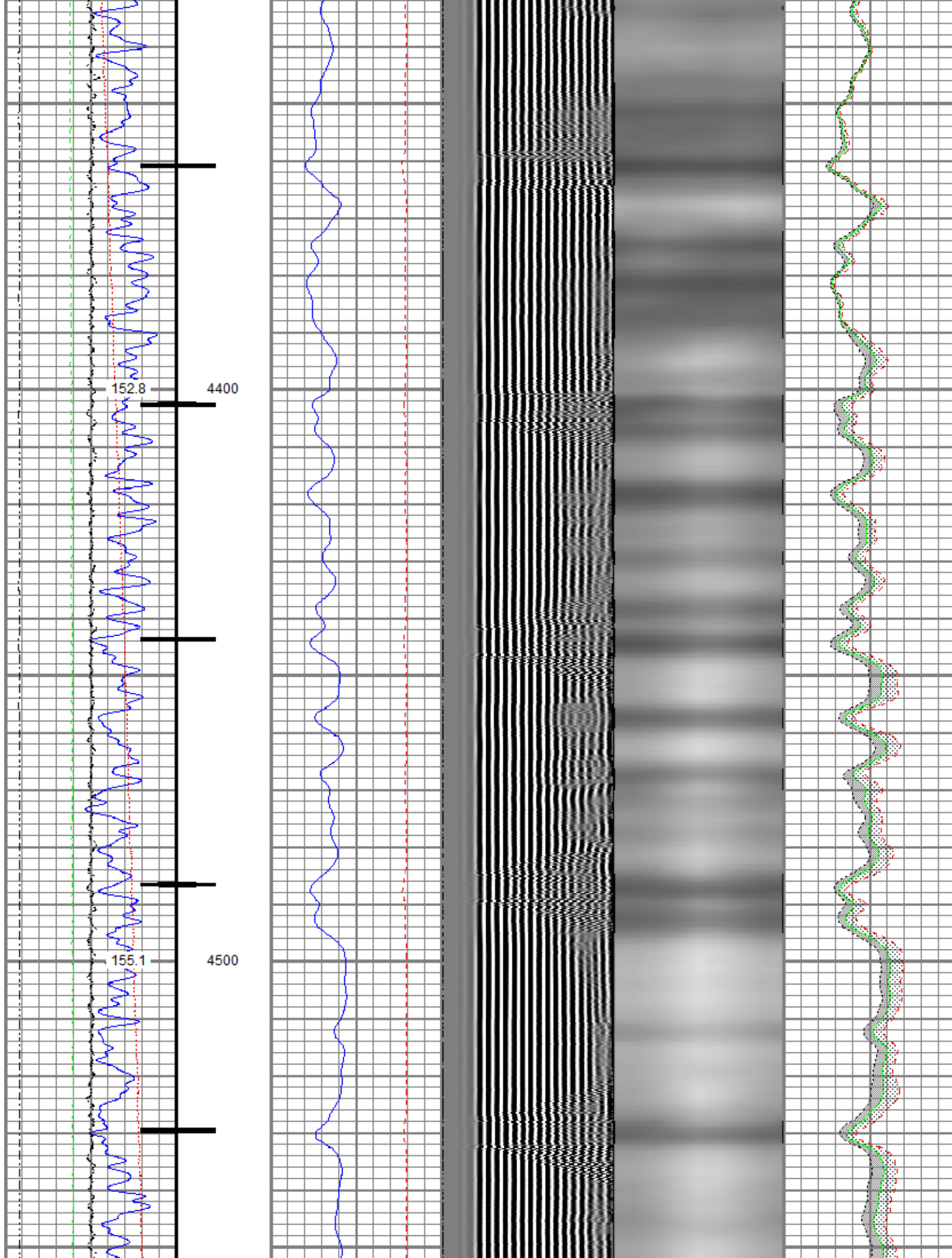


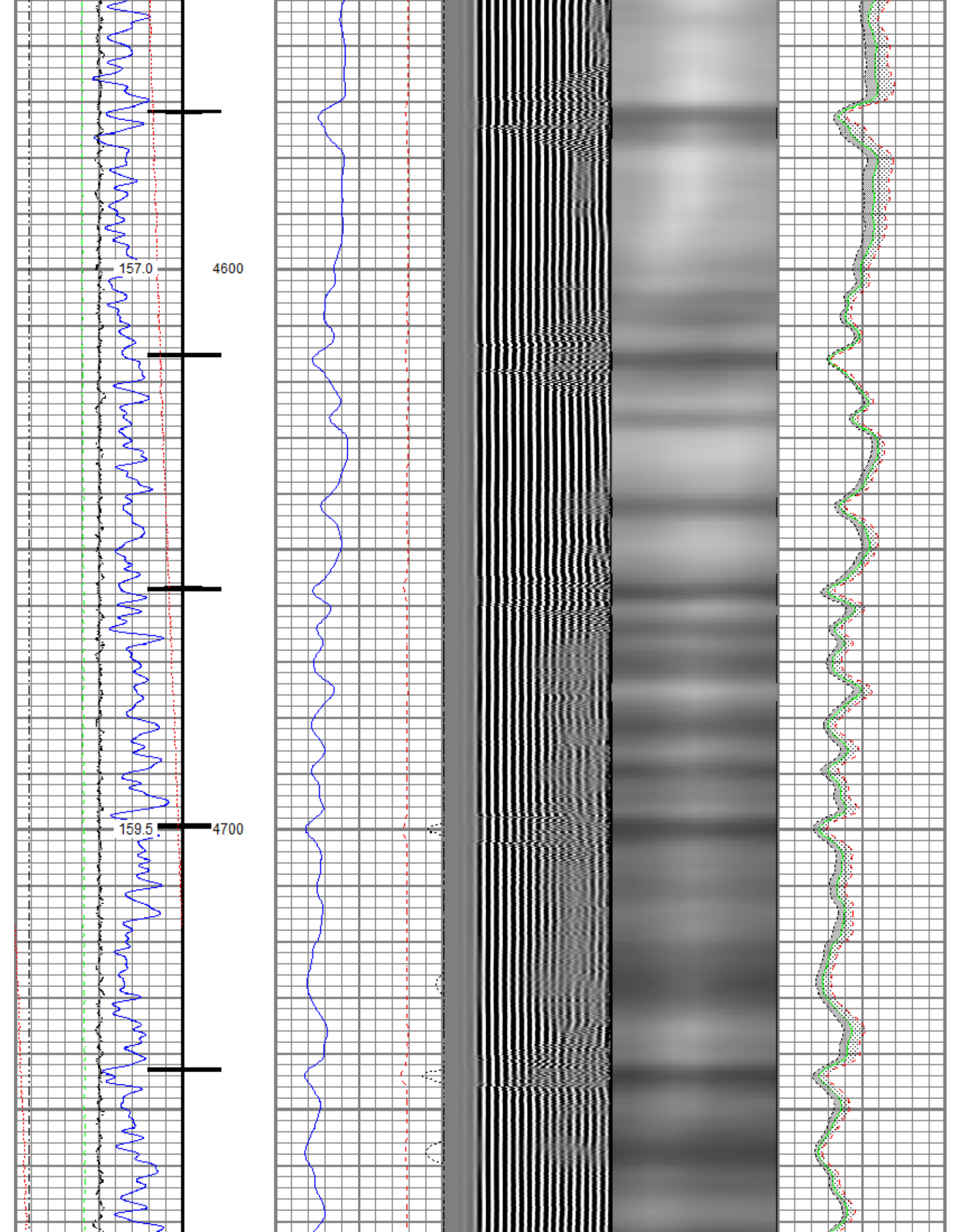




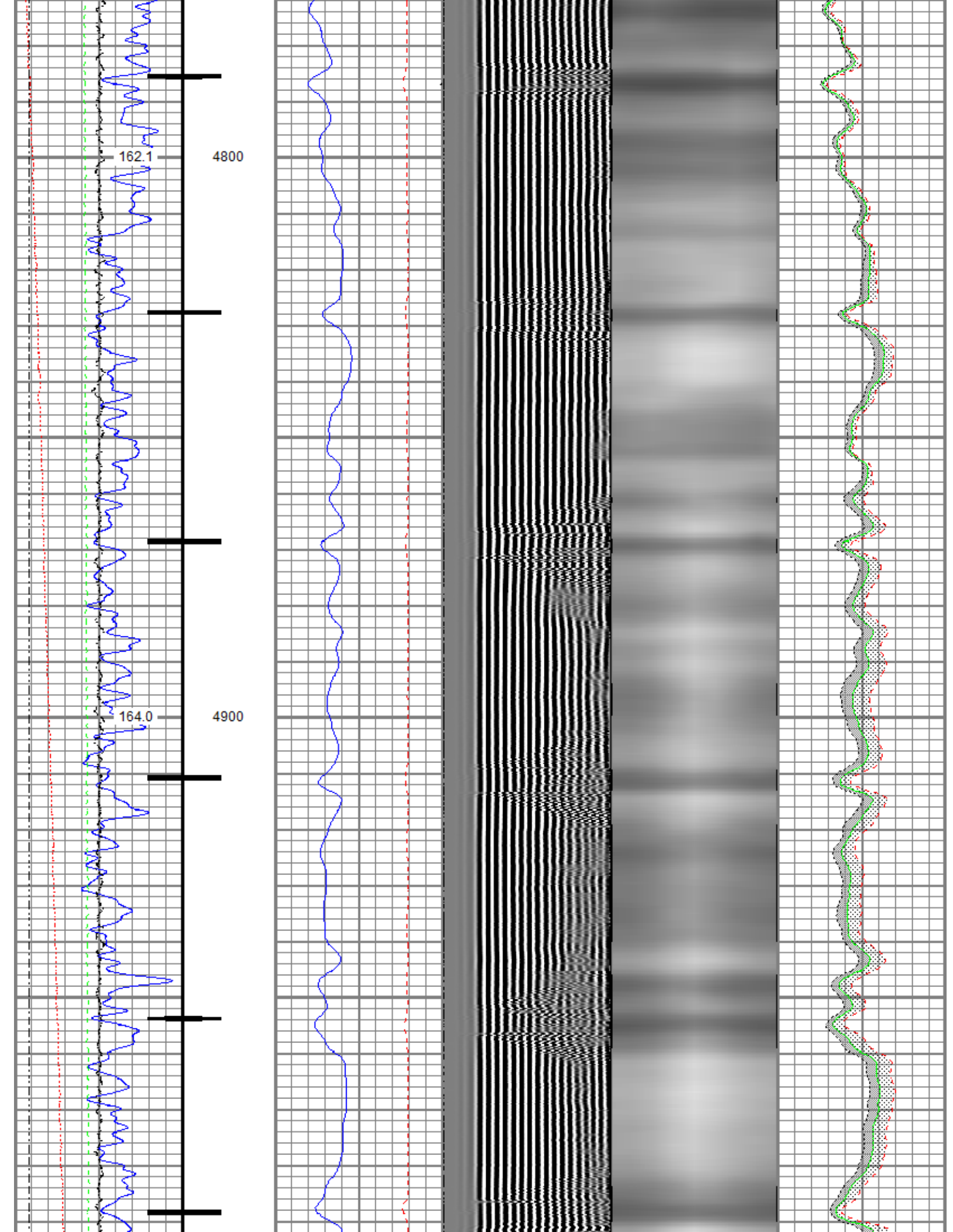


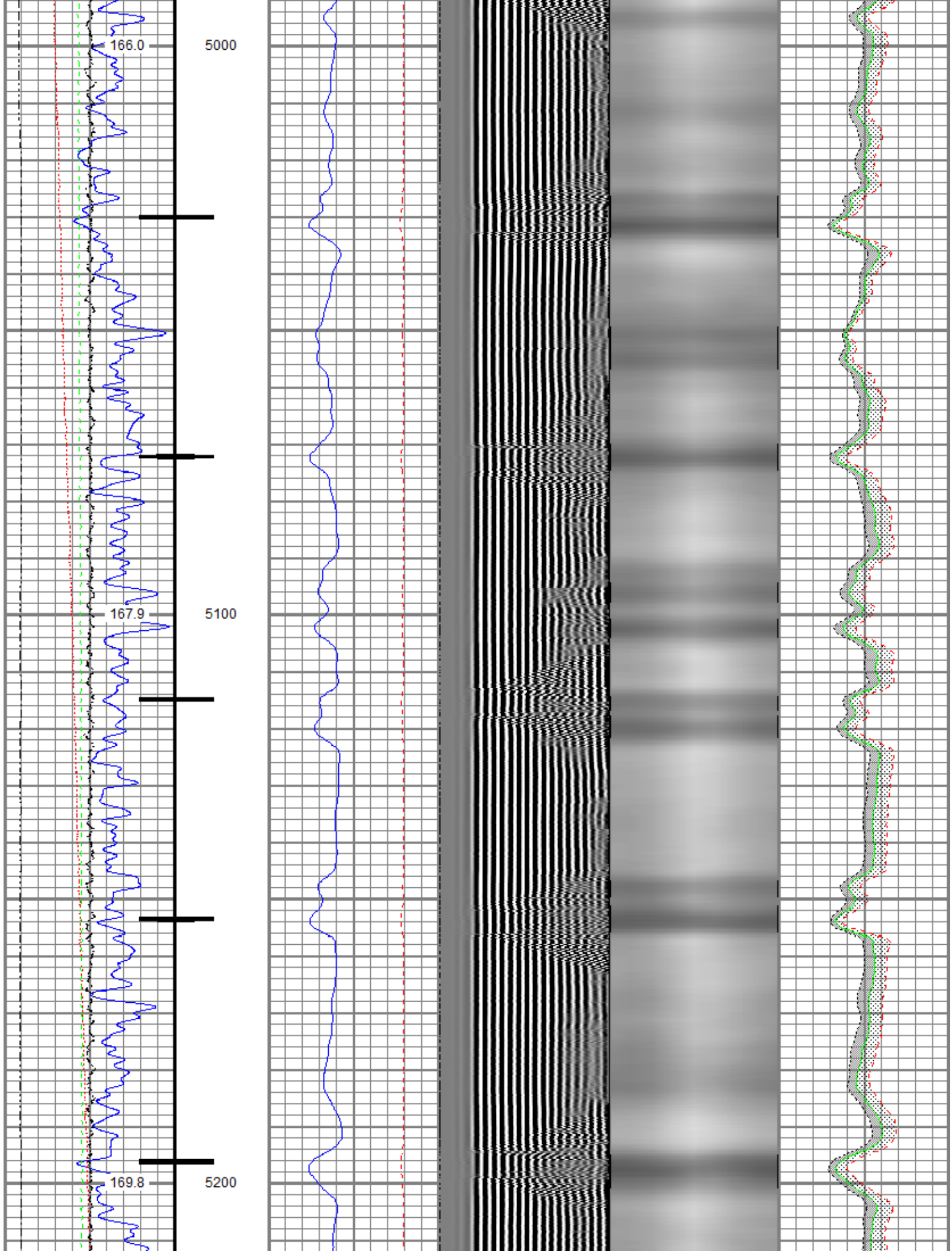


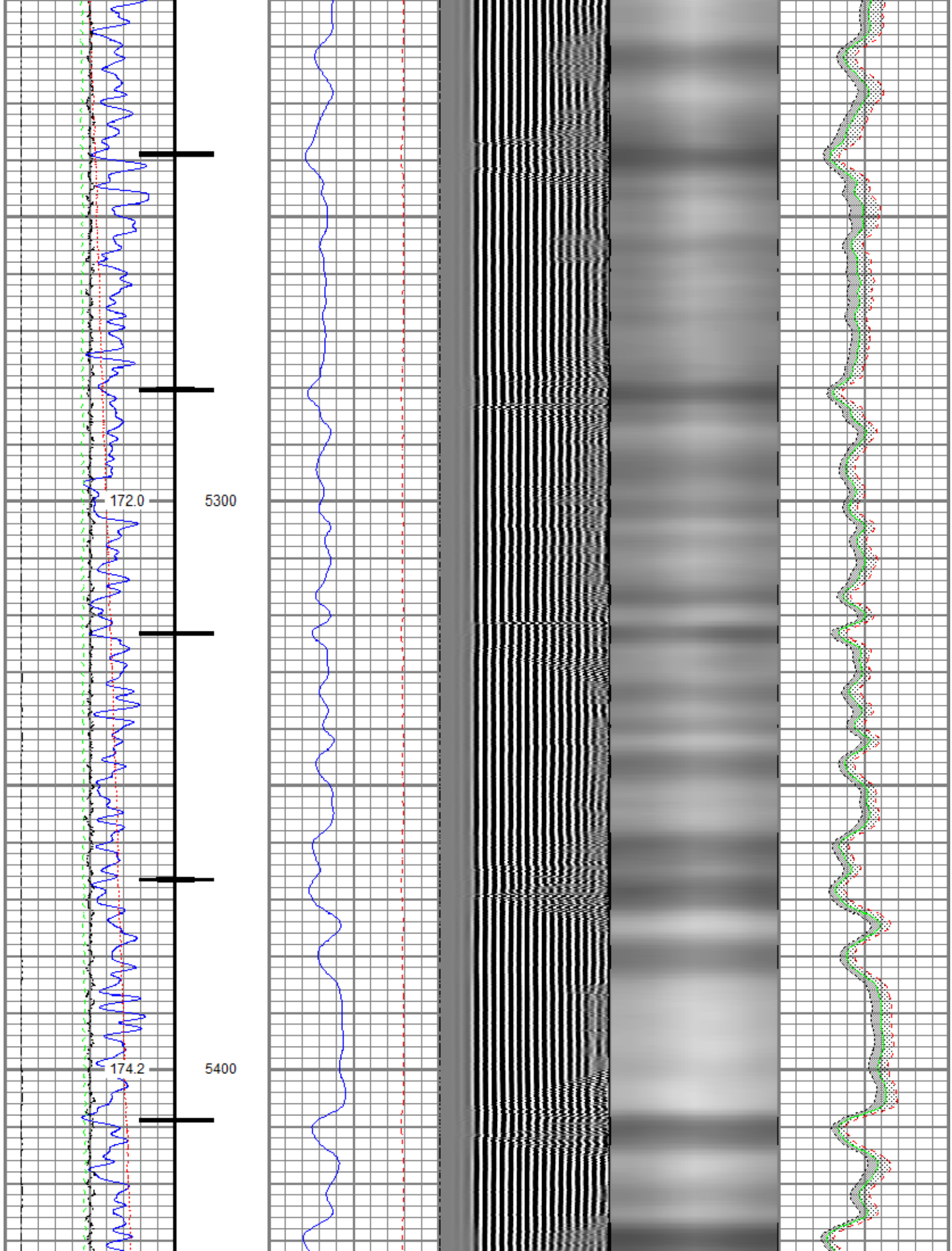




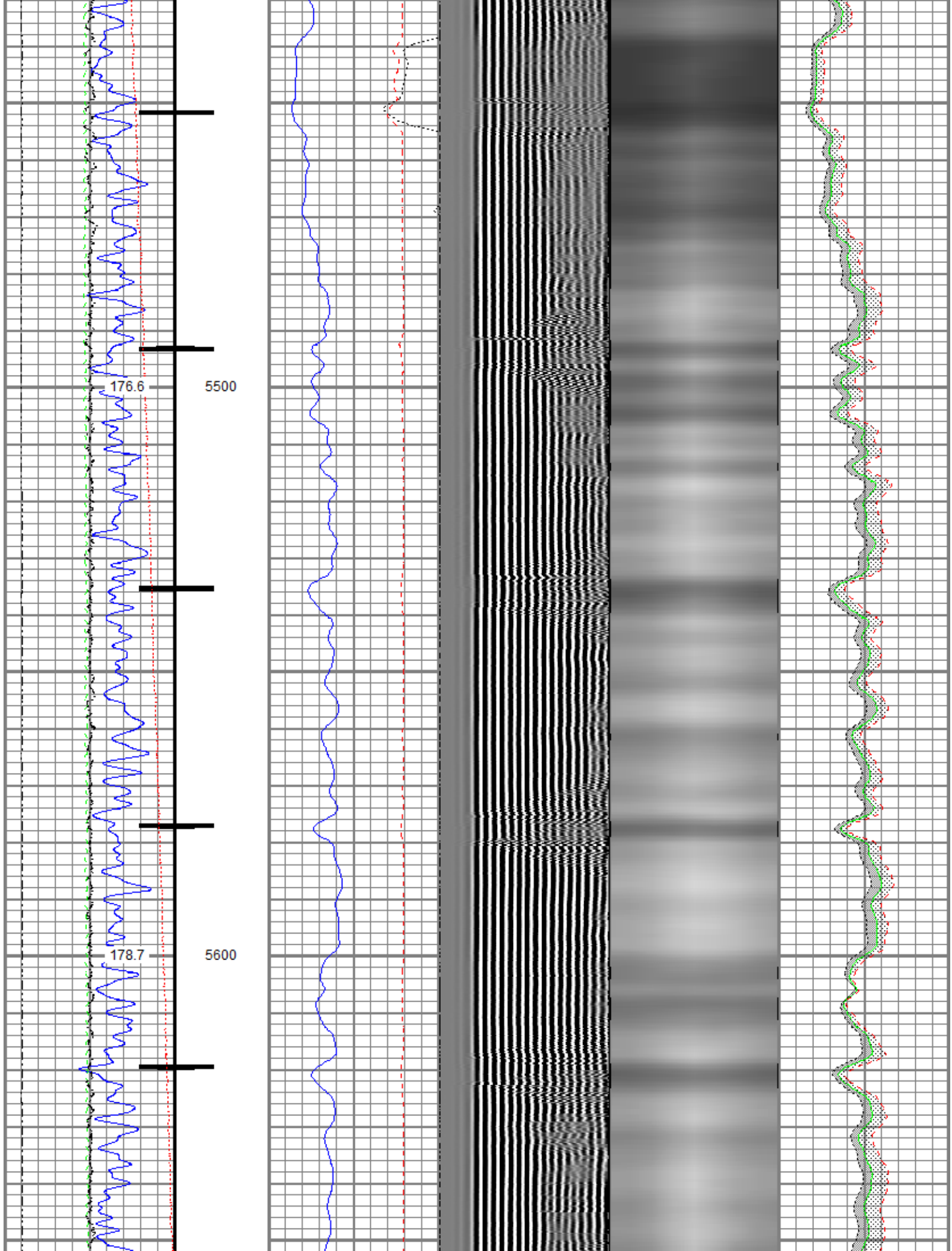


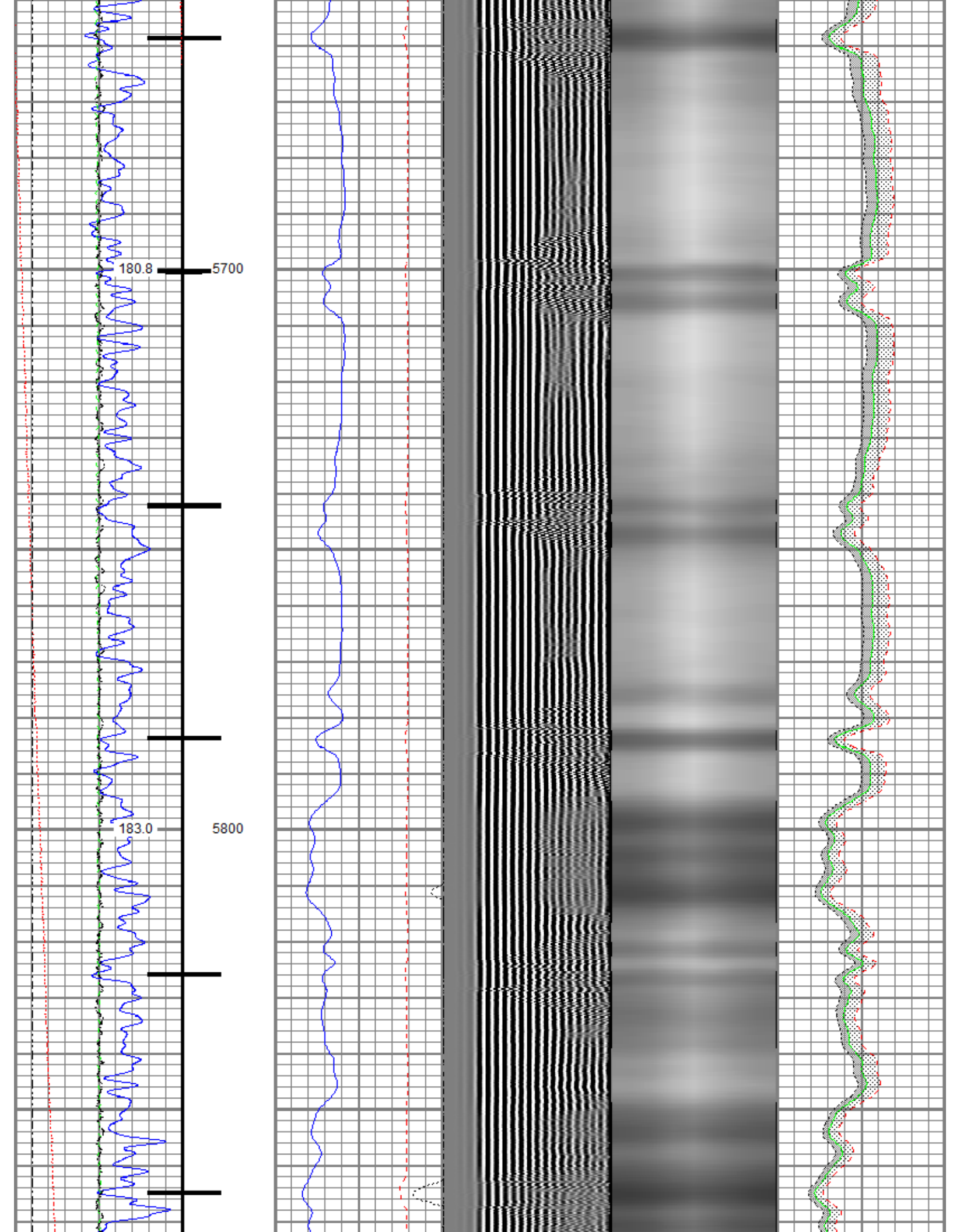


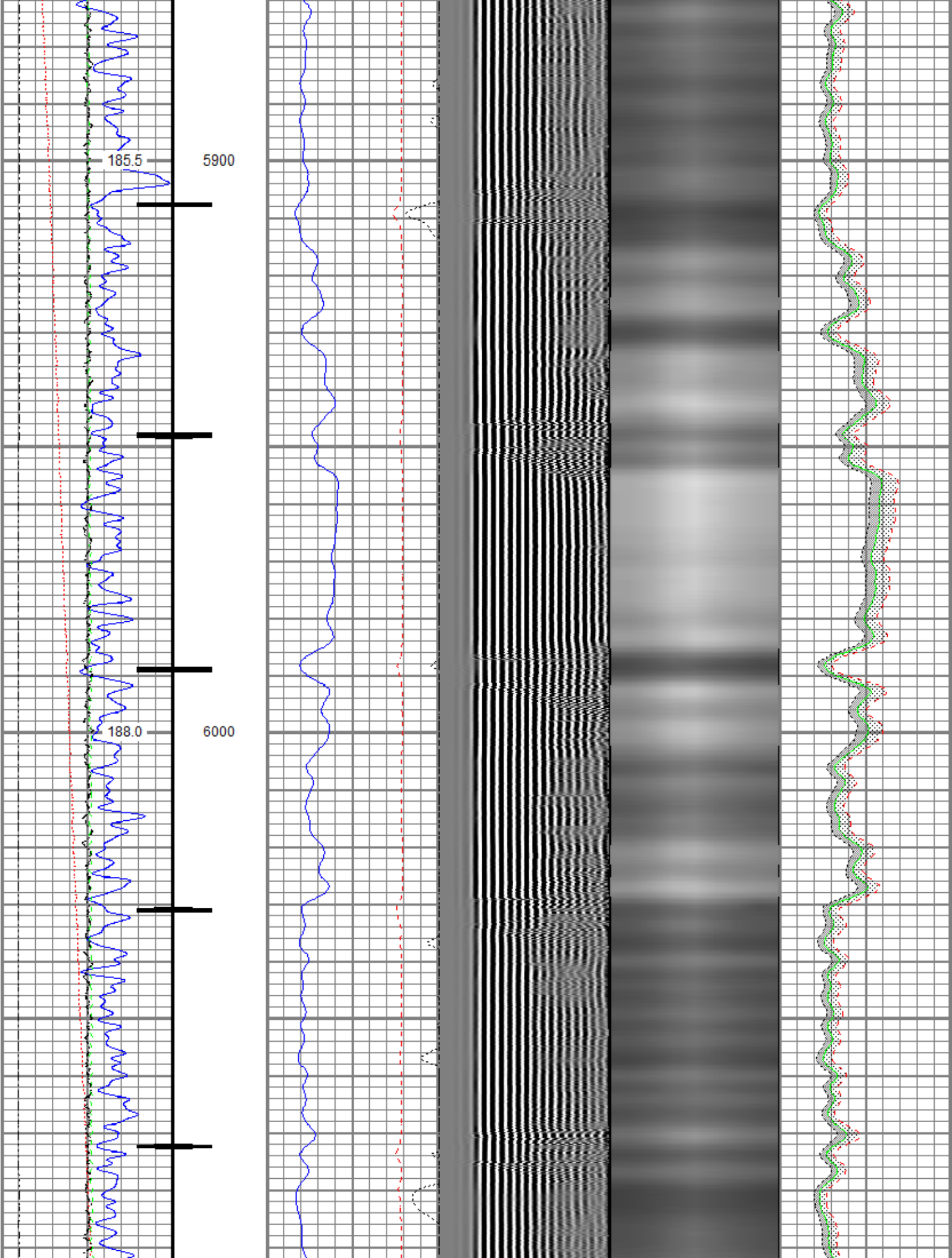




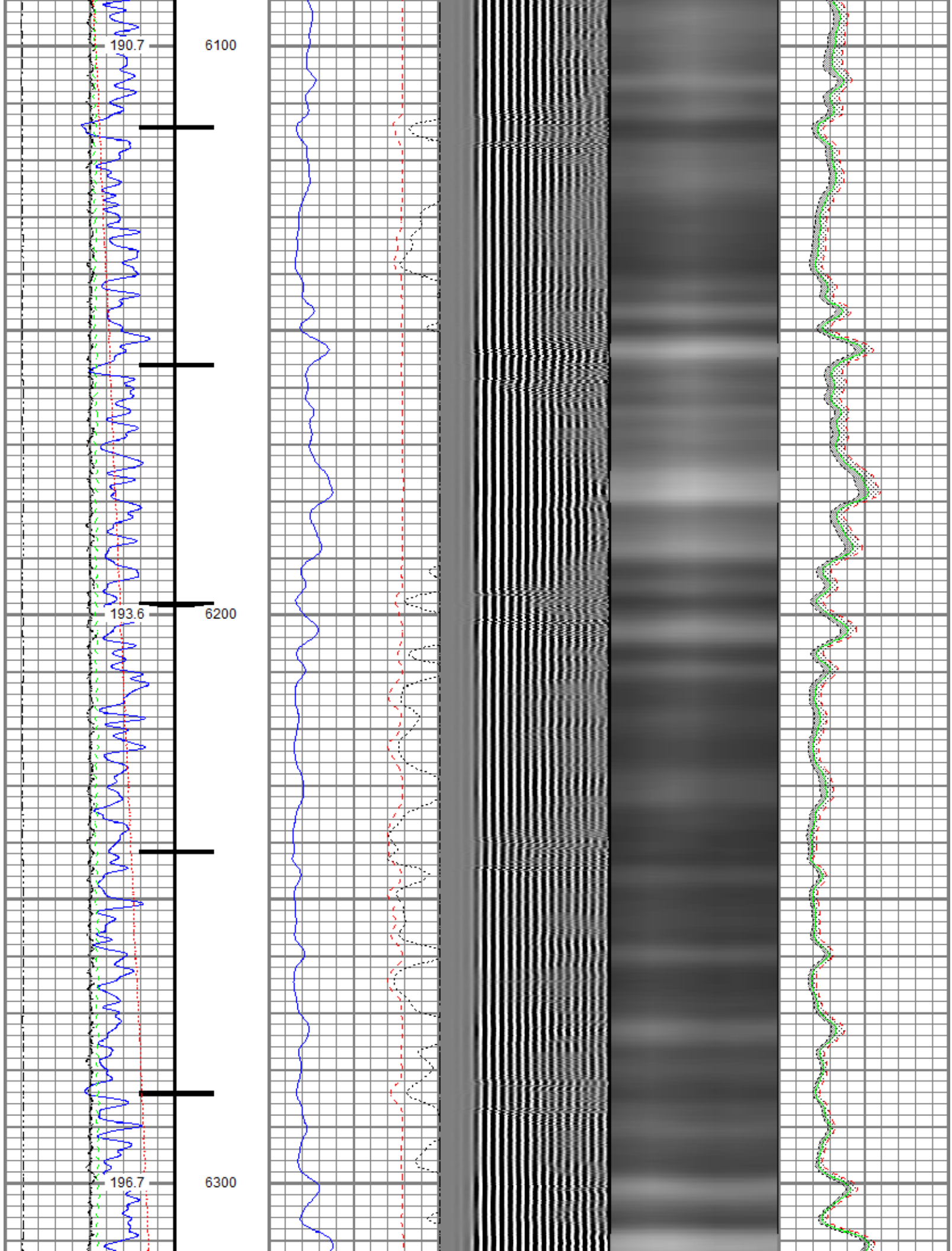


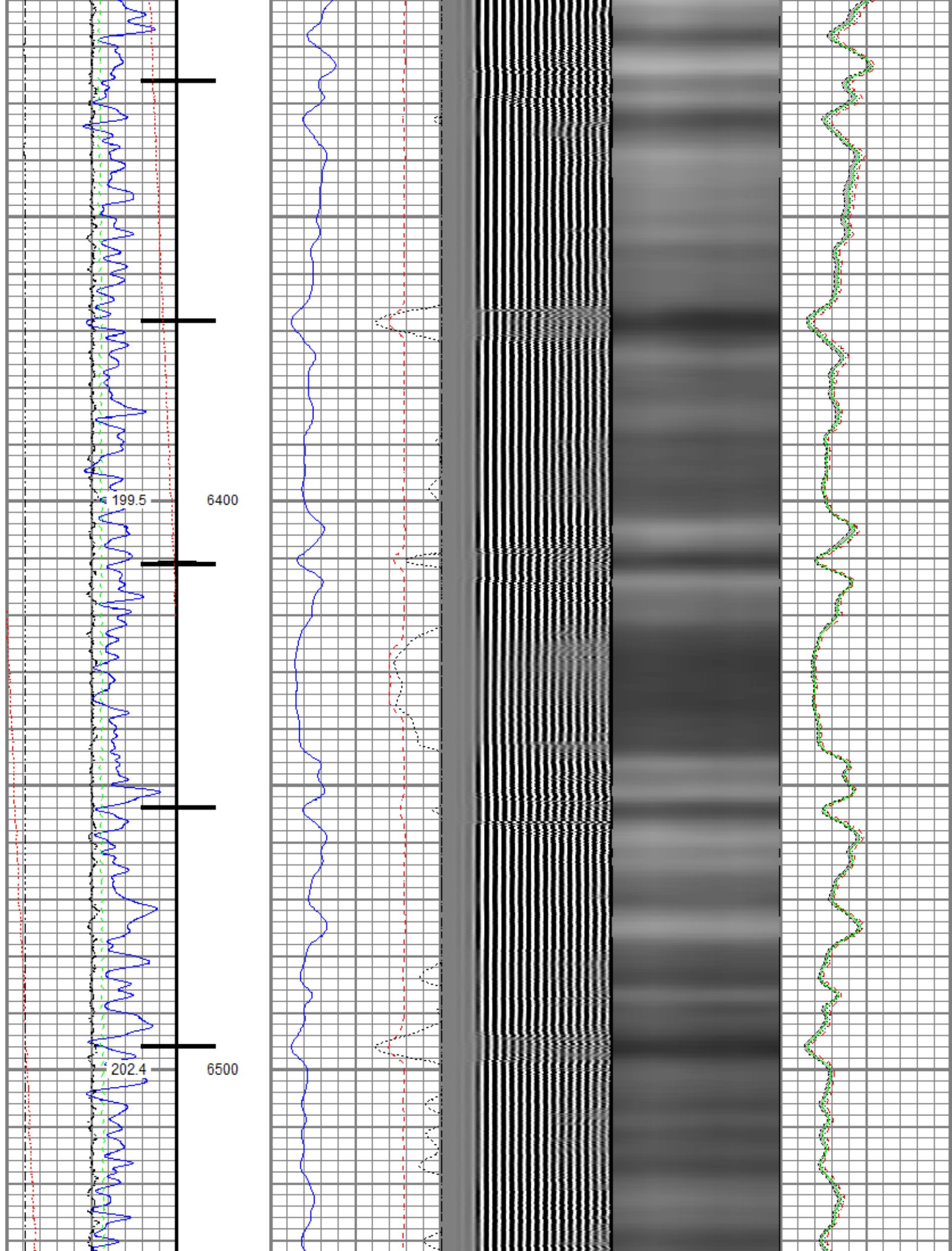


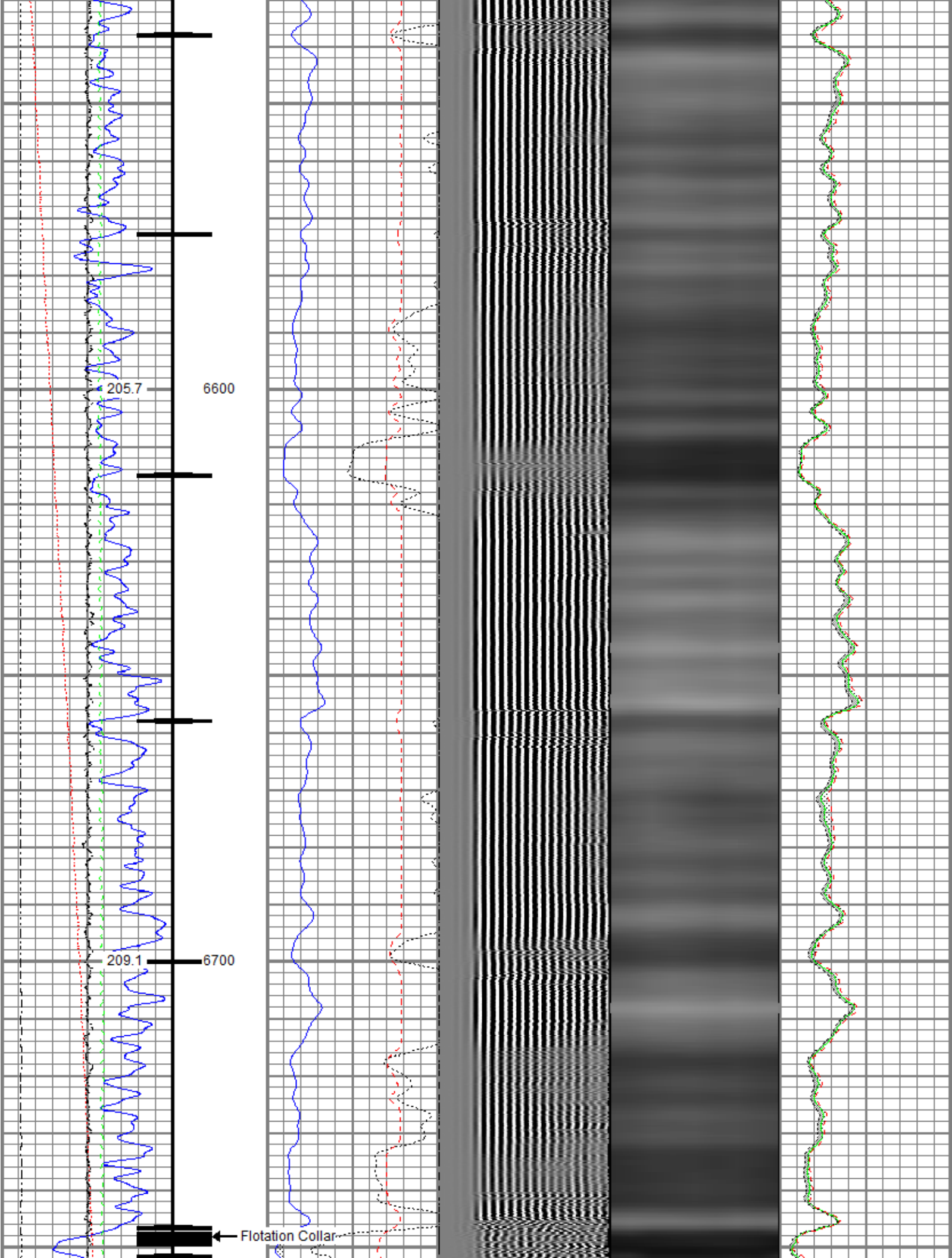




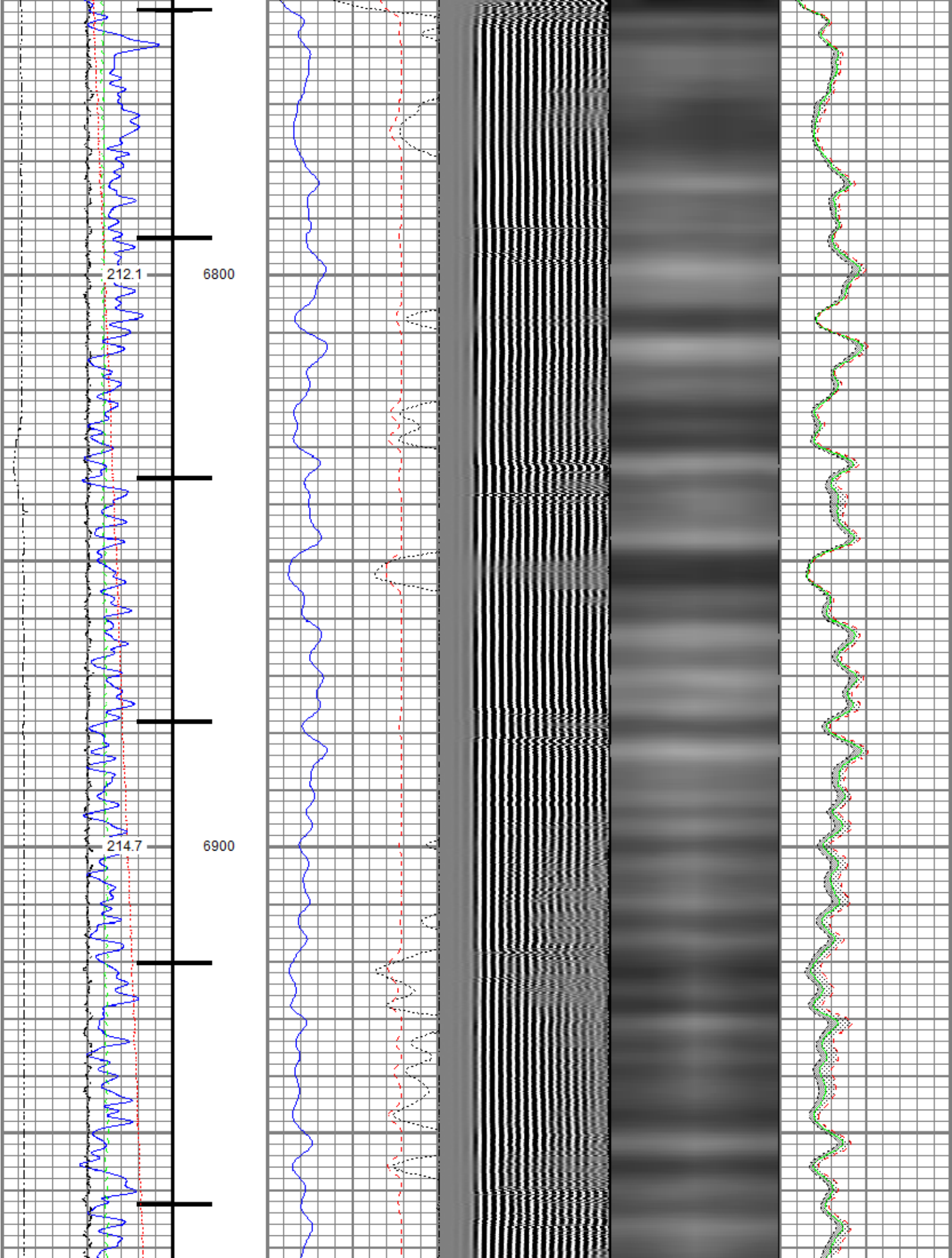


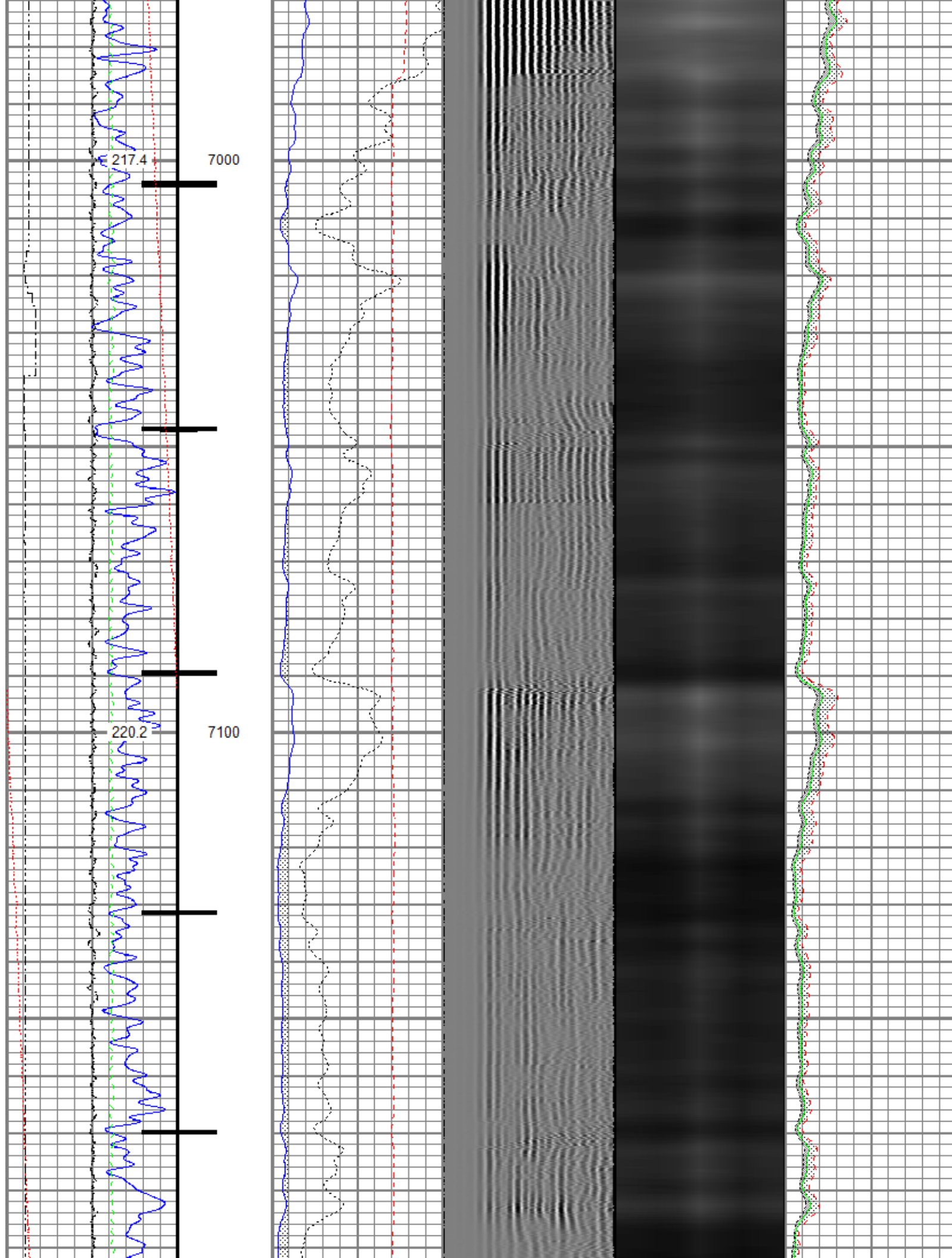


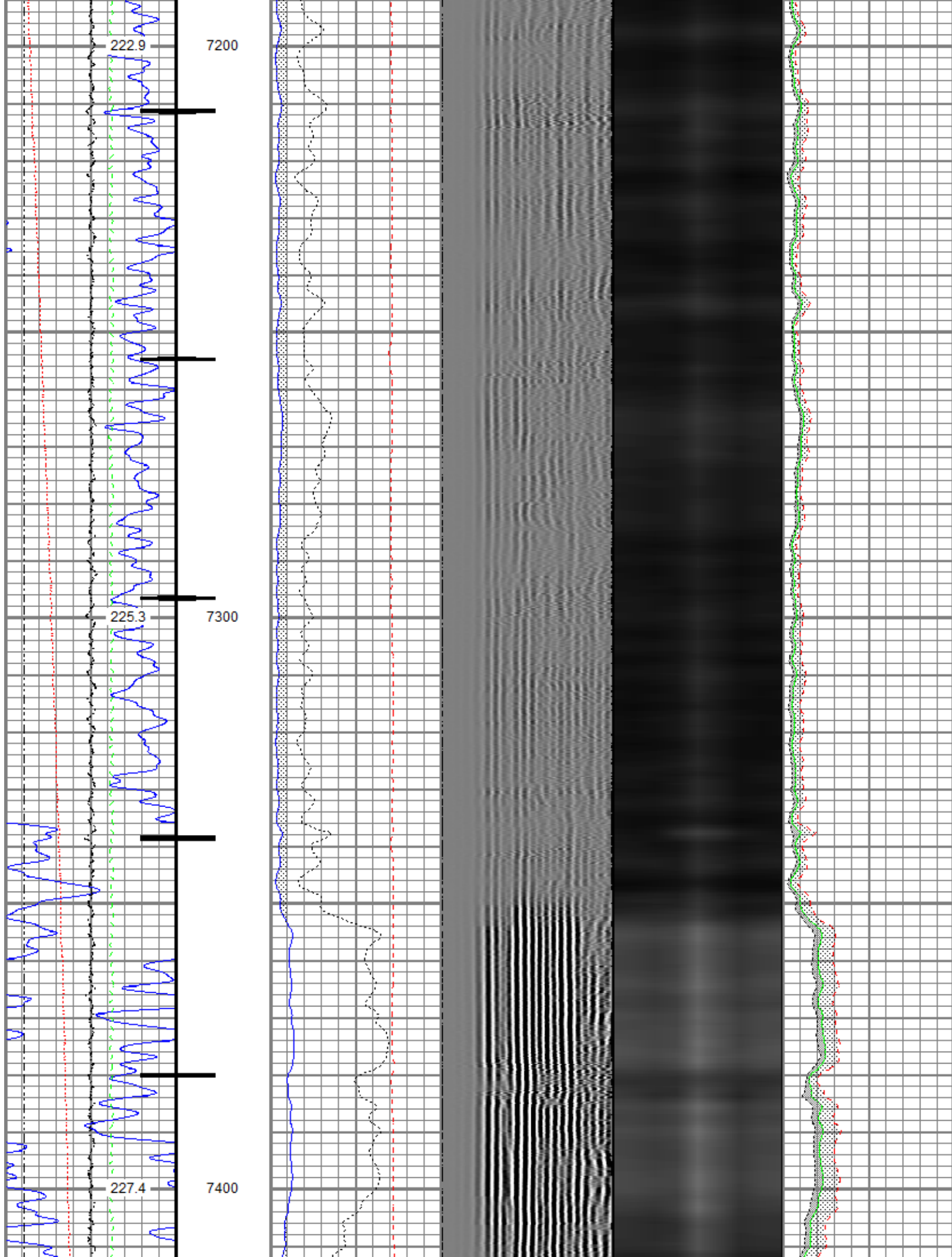




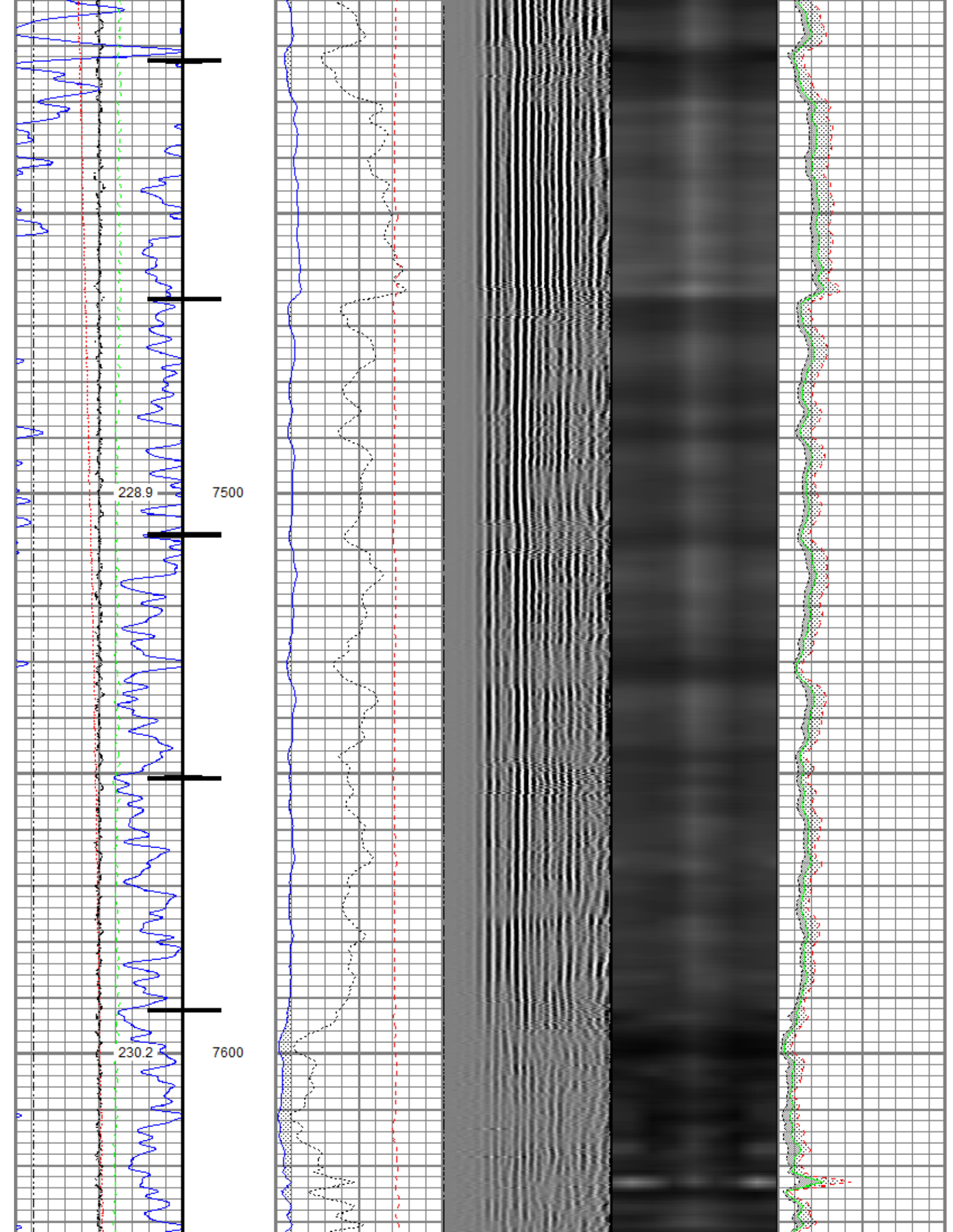


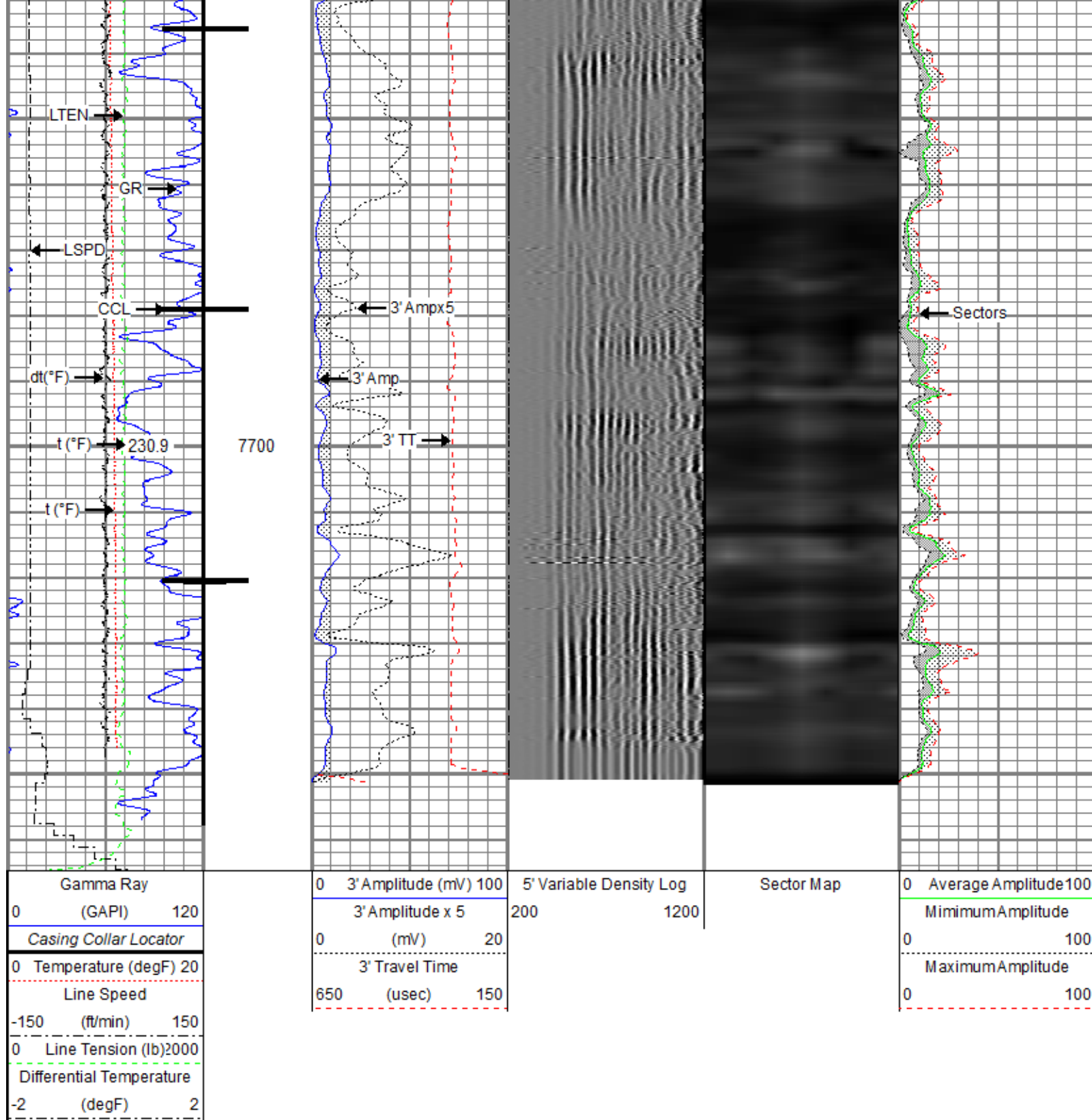








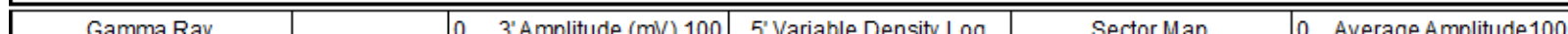




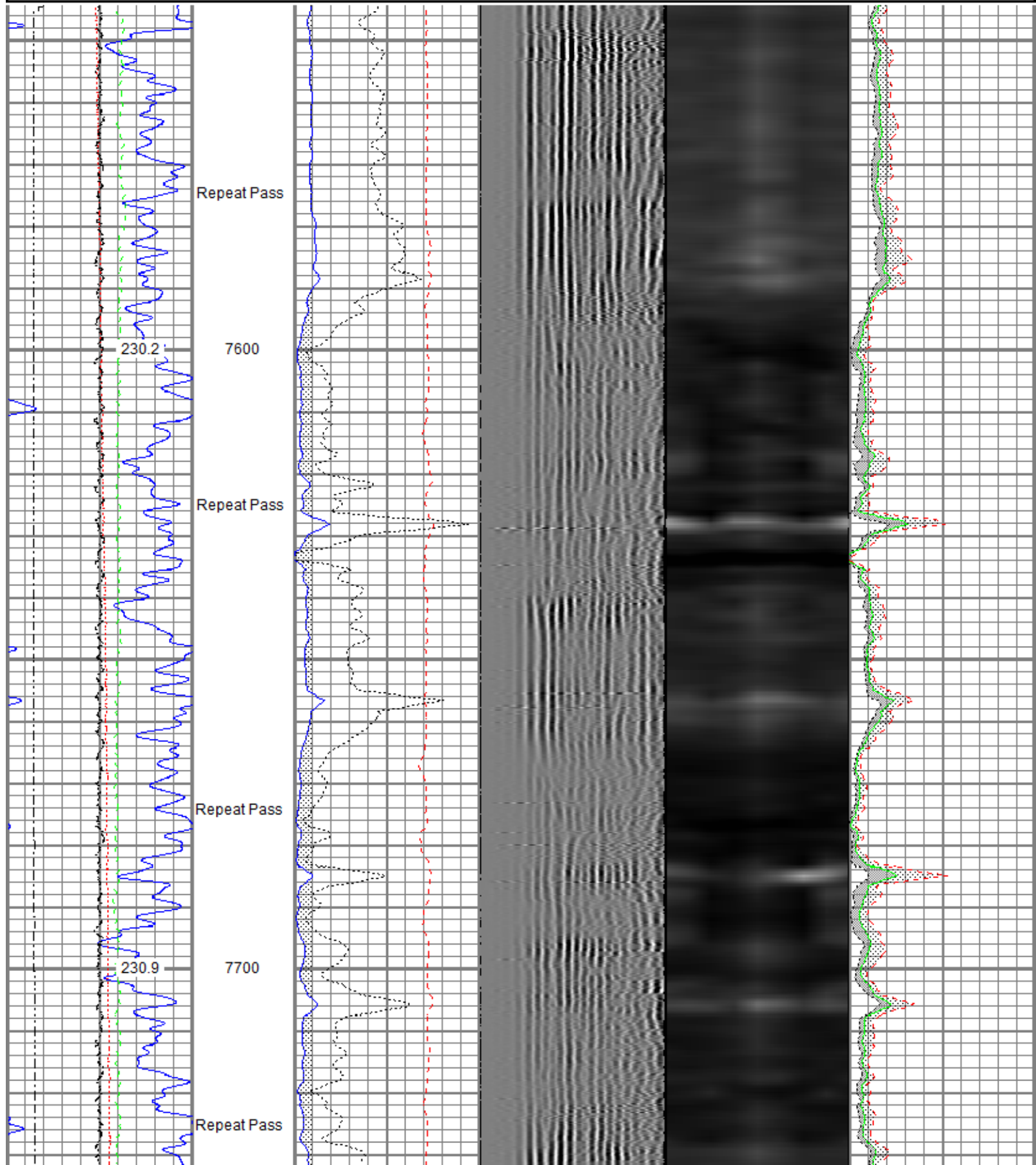
## Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

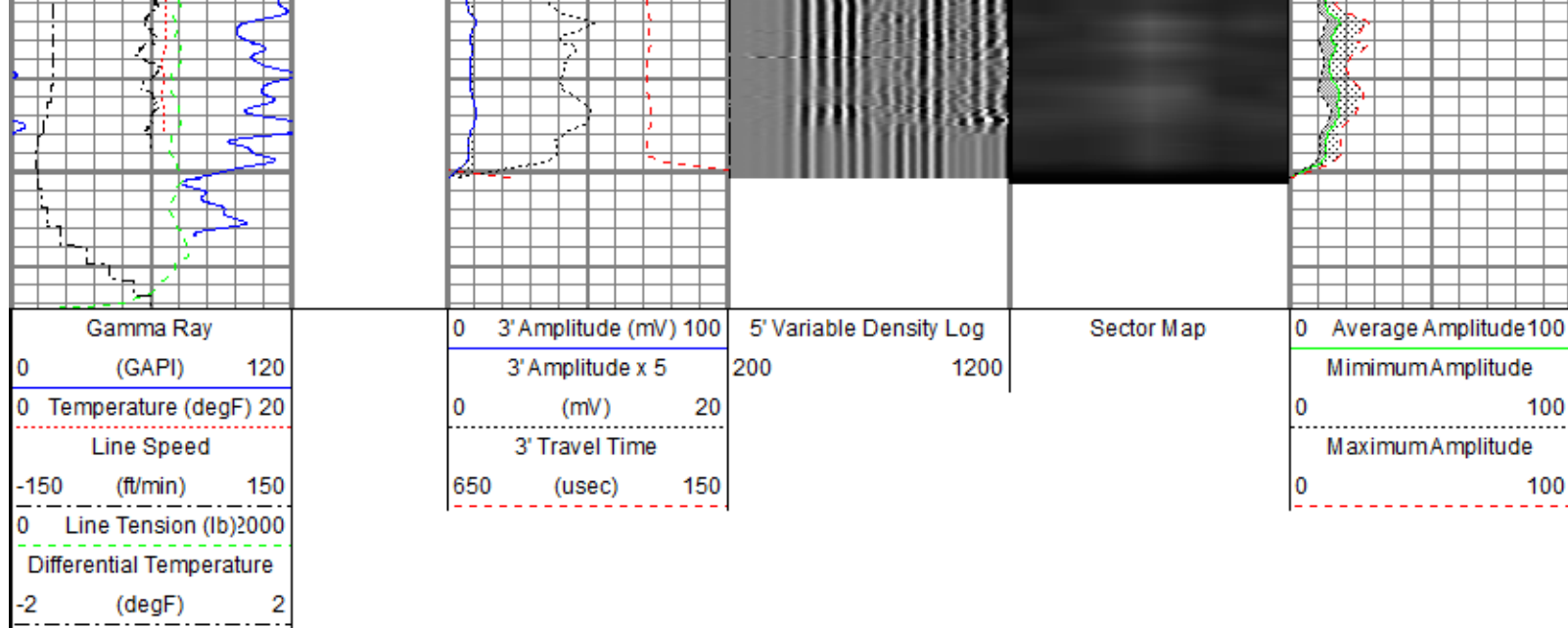
Database File petro\petro\_bef west 17\_rbl\_04-02-19\processed\_petro\_bef west 17\_rbl\_04-02-19.db  
 Dataset Pathname Repeat.3  
 Presentation Format ros\_radrii  
 Dataset Creation Tue Apr 02 11:03:27 2019  
 Charted by Depth in Feet scaled 1:240



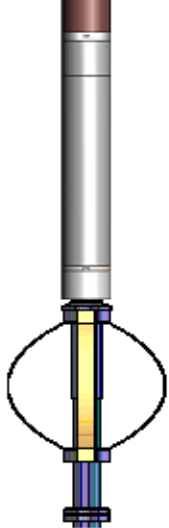
0	(GAPI)	120	0	3' Amplitude (mV) x 5	200	1200	0	Average Amplitude	100
0	Temperature (degF)	20	0	(mV)	20		0	Minimum Amplitude	100
Line Speed			3' Travel Time			Maximum Amplitude			
-150	(ft/min)	150	650	(usec)	150	0			100
0	Line Tension (lb)	2000							
Differential Temperature									
-2	(degF)	2							







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
WVFS8	14.81		Probe Radii-2750 RBT (FW1308-091) 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					
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		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
GR	5.46					
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Dataset: processed_petro_bef west 17_rbl_04-02-19.db: field/well/run1/Main.3 Total length: 23.86 ft Total weight: 223.60 lb O.D.: 2.75 in						

Calibration Report	
Database File	c:\programdata\warrior\data\petro\petro_bef west 17_rbl_04-02-19\processed_petro_bef west 17_rbl_04-02-19.db
Dataset Pathname	Main.3
Dataset Creation	Tue Apr 02 10:54:25 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:	FW1308-091	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	4.459	ft

Master Calibration, performed (Derived):						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.009	0.555	0.800	71.921	130.299	-0.330
CAL	0.723	0.726				
5'	0.010	0.494	0.800	71.921	146.809	-0.647
SUM						
S1	0.010	0.562	0.000	100.000	181.158	-1.723
S2	0.007	0.576	0.000	100.000	175.563	-1.143
S3	0.007	0.571	0.000	100.000	177.270	-1.201
S4	0.007	0.552	0.000	100.000	183.560	-1.292
S5	0.008	0.563	0.000	100.000	180.384	-1.525
S6	0.008	0.564	0.000	100.000	179.898	-1.416
S7	0.008	0.548	0.000	100.000	185.126	-1.414
S8	0.007	0.553	0.000	100.000	182.849	-1.189

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.723	0.726	1.000	0.000

Air Zero Calibration, performed Tue Apr 02 06:13:05 2019:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.007		0.000		0.001	
5'	0.009		0.000		-0.000	
SUM						
S1	0.006		0.000		0.000	
S2	0.008		0.000		0.000	
S3	0.007		0.000		0.000	
S4	0.007		0.000		-0.001	
S5	0.008		0.000		0.000	
S6	0.007		0.000		-0.001	
S7	0.007		0.000		0.000	
S8	0.007		0.000		-0.001	

#### Temperature Calibration Report

Serial Number: FW1308-091  
Tool Model: 2750 RBT  
Performed: Mon Oct 01 11:32:16 2018

	Reference	Reading
Low Reference:	100.00 degF	104.72 degF
High Reference:	350.00 degF	392.24 degF
Gain:	0.87	
Offset:	8.94	
Delta Spacing	1	



Company	Petro Operating Company LLC
Well	BEF West 17
Field	Wattenberg
County	Adams
State	Colorado