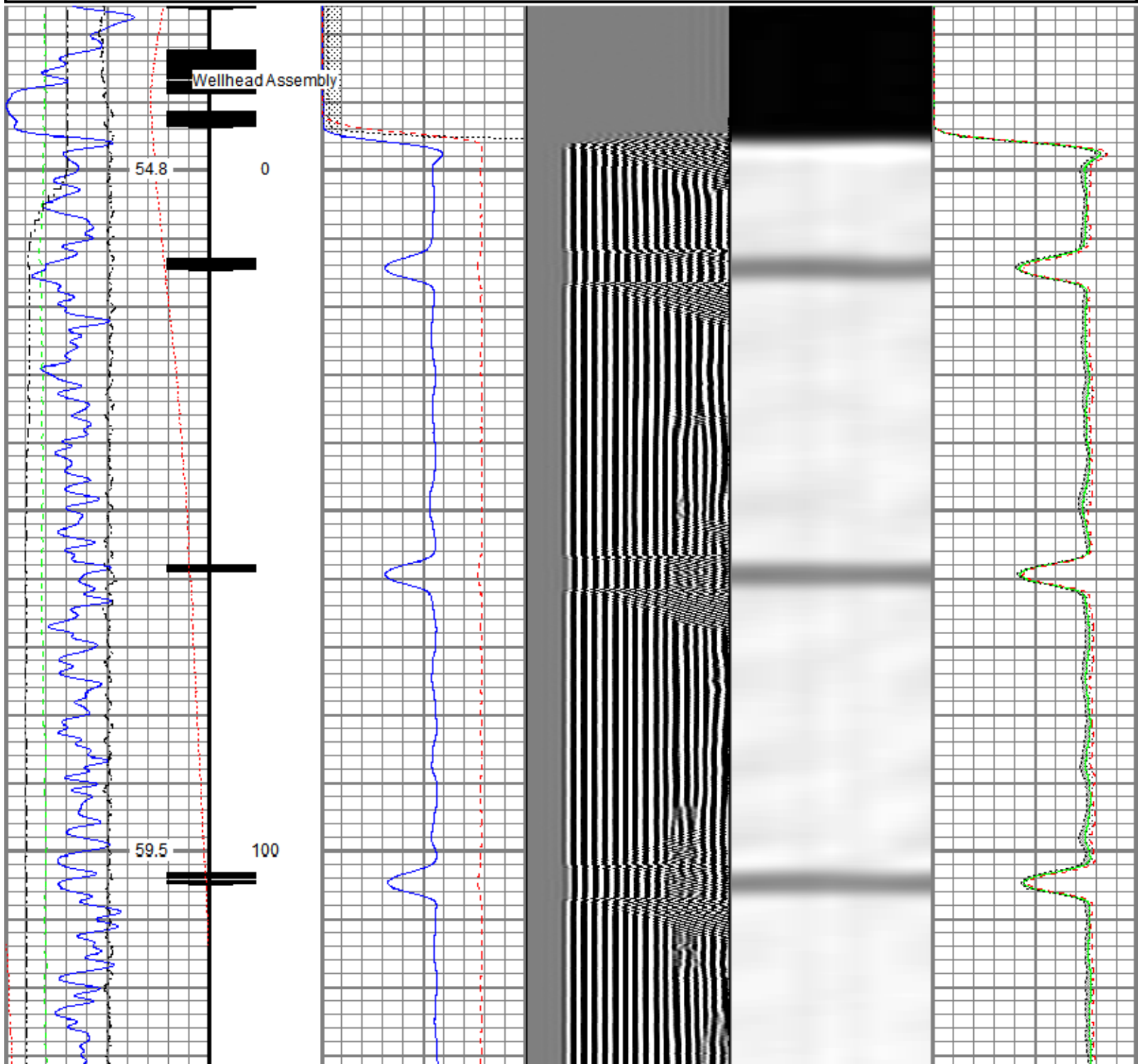


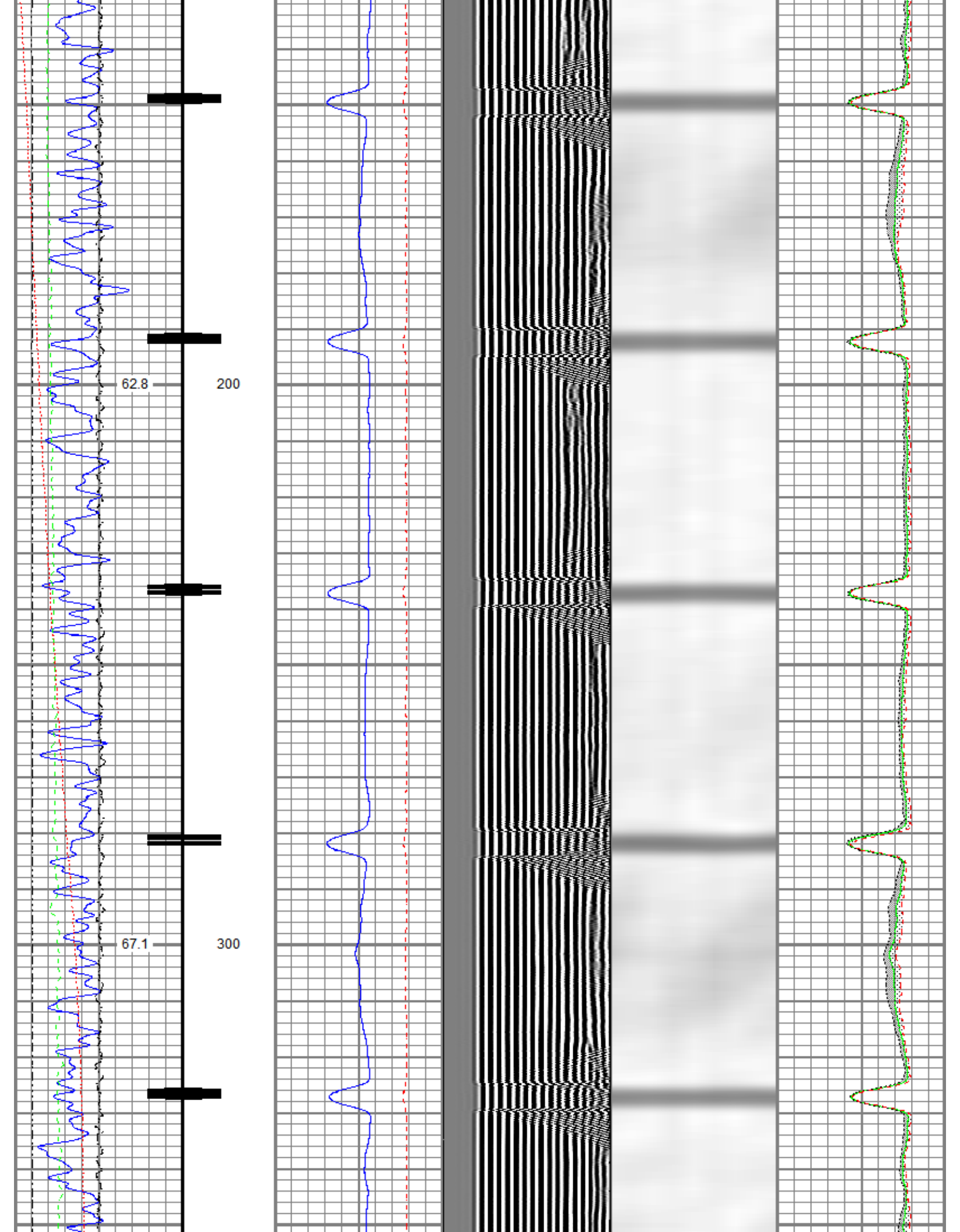


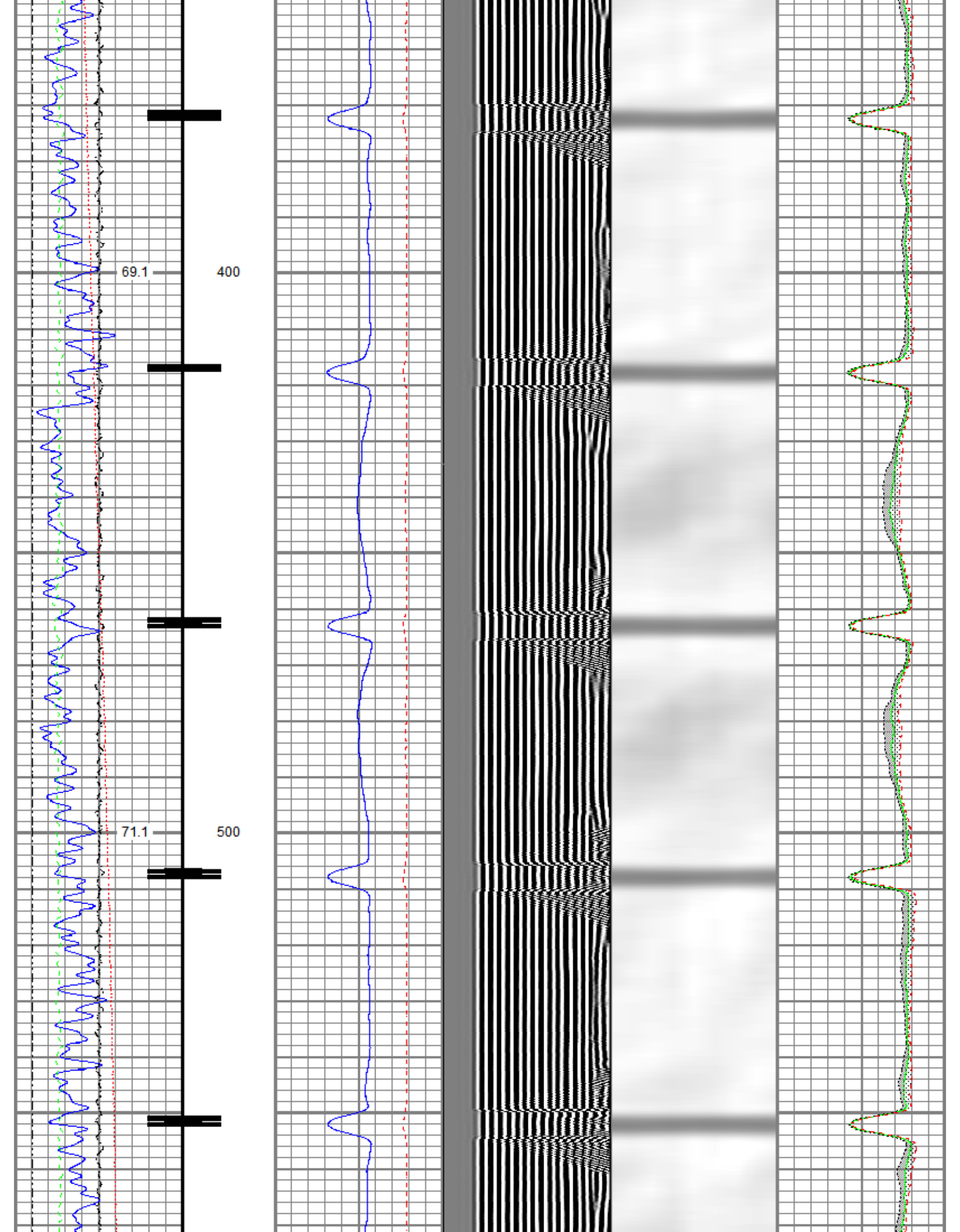
# Recorded with U PSI Surface Induced Pressure

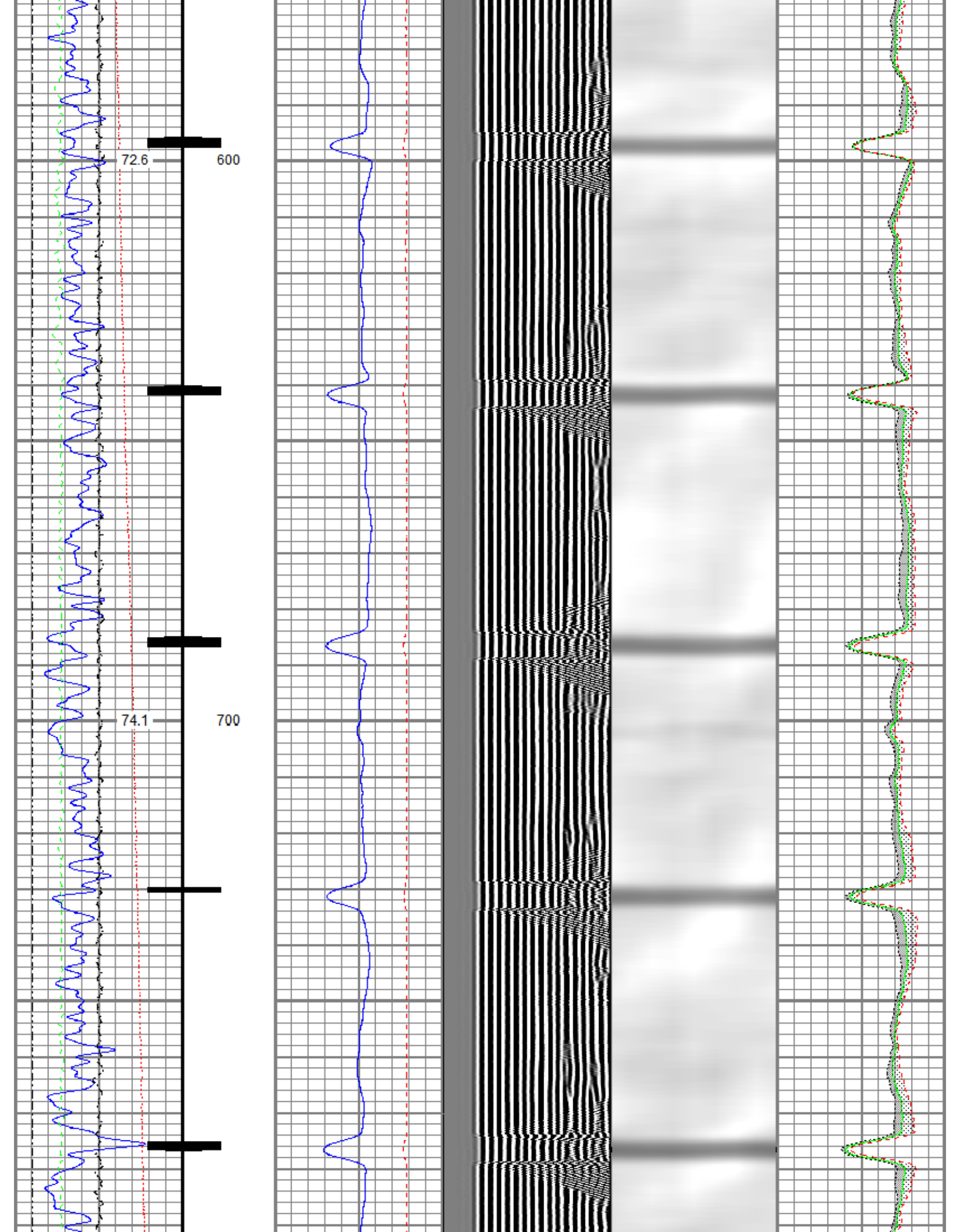
Database File oxy\_cleland 15-4hz\0512350493\_oxy\_cleland 15-4hz\_rbl\_01-31-20.db  
 Dataset Pathname rcb10/pass4.1  
 Presentation Format ros\_radrii  
 Dataset Creation Sat Feb 01 10:34:49 2020  
 Charted by Depth in Feet scaled 1:240

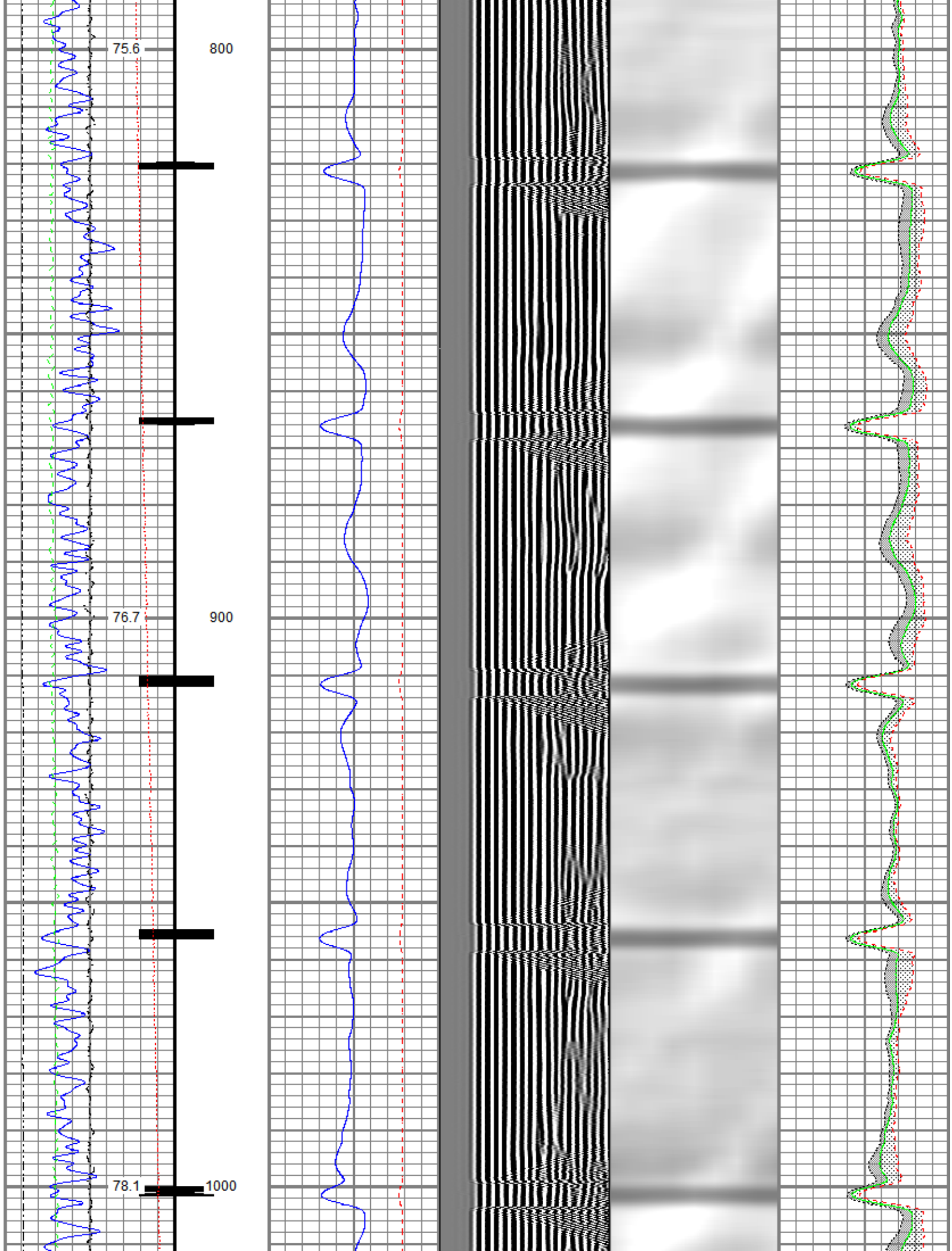
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min)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

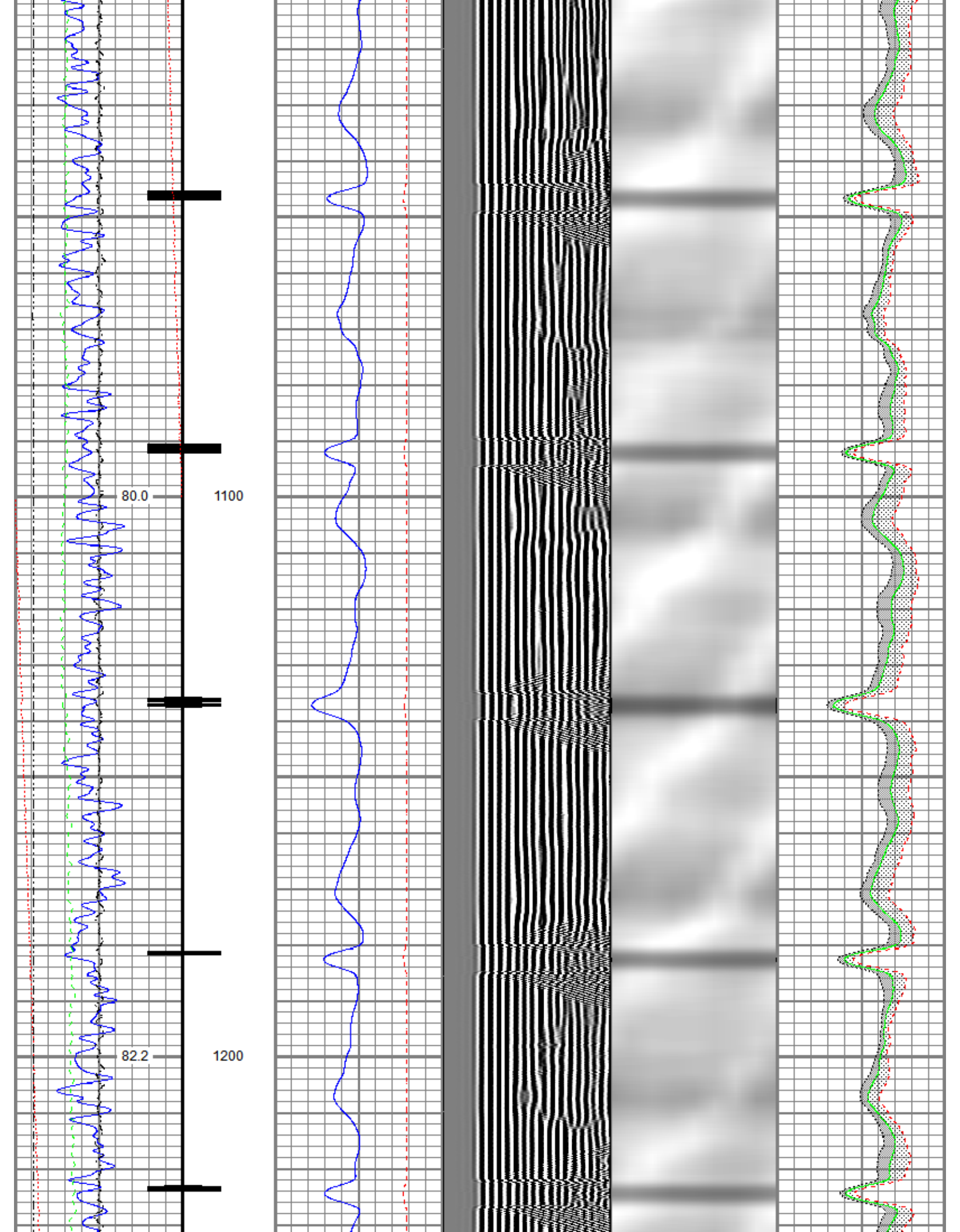


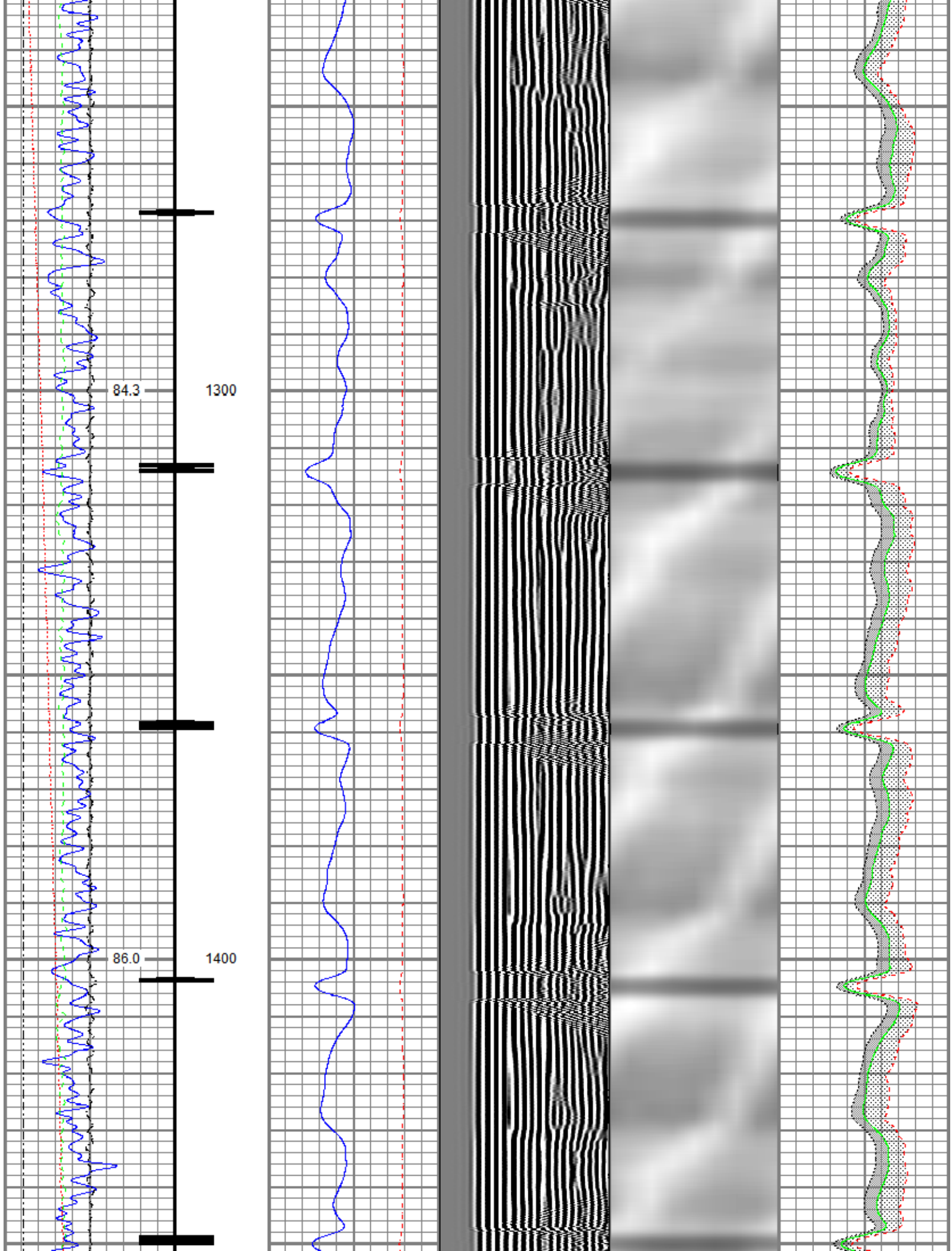


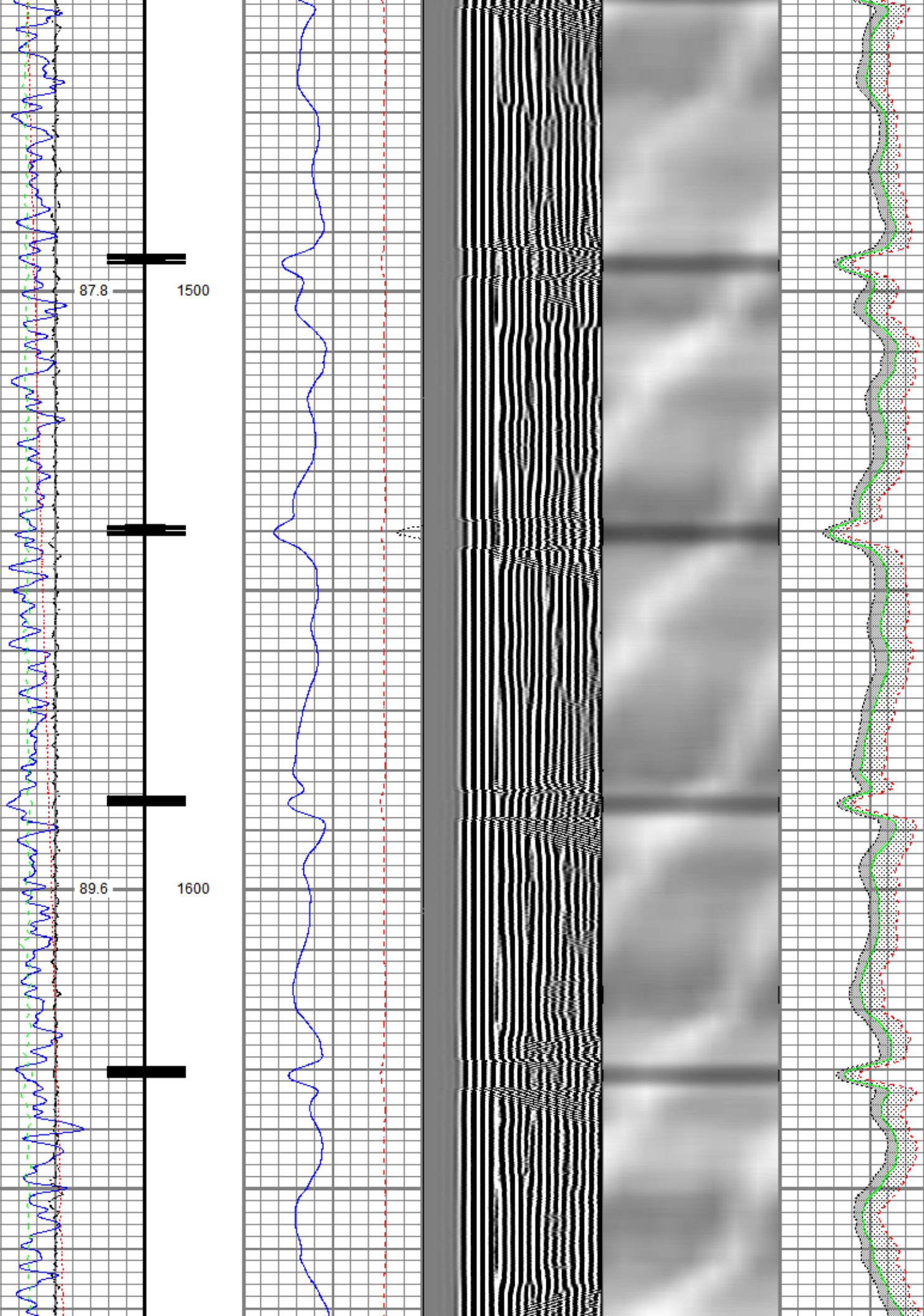


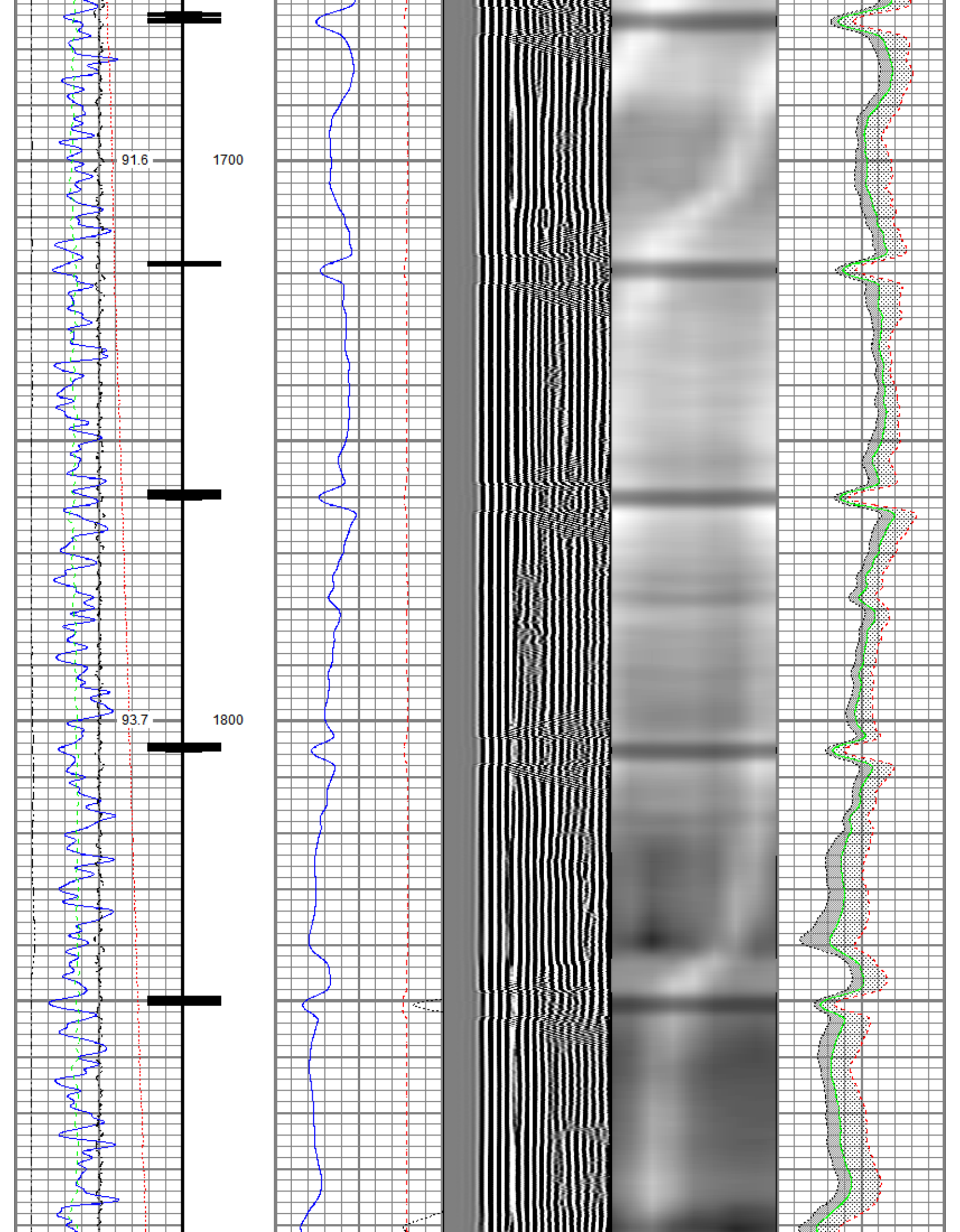


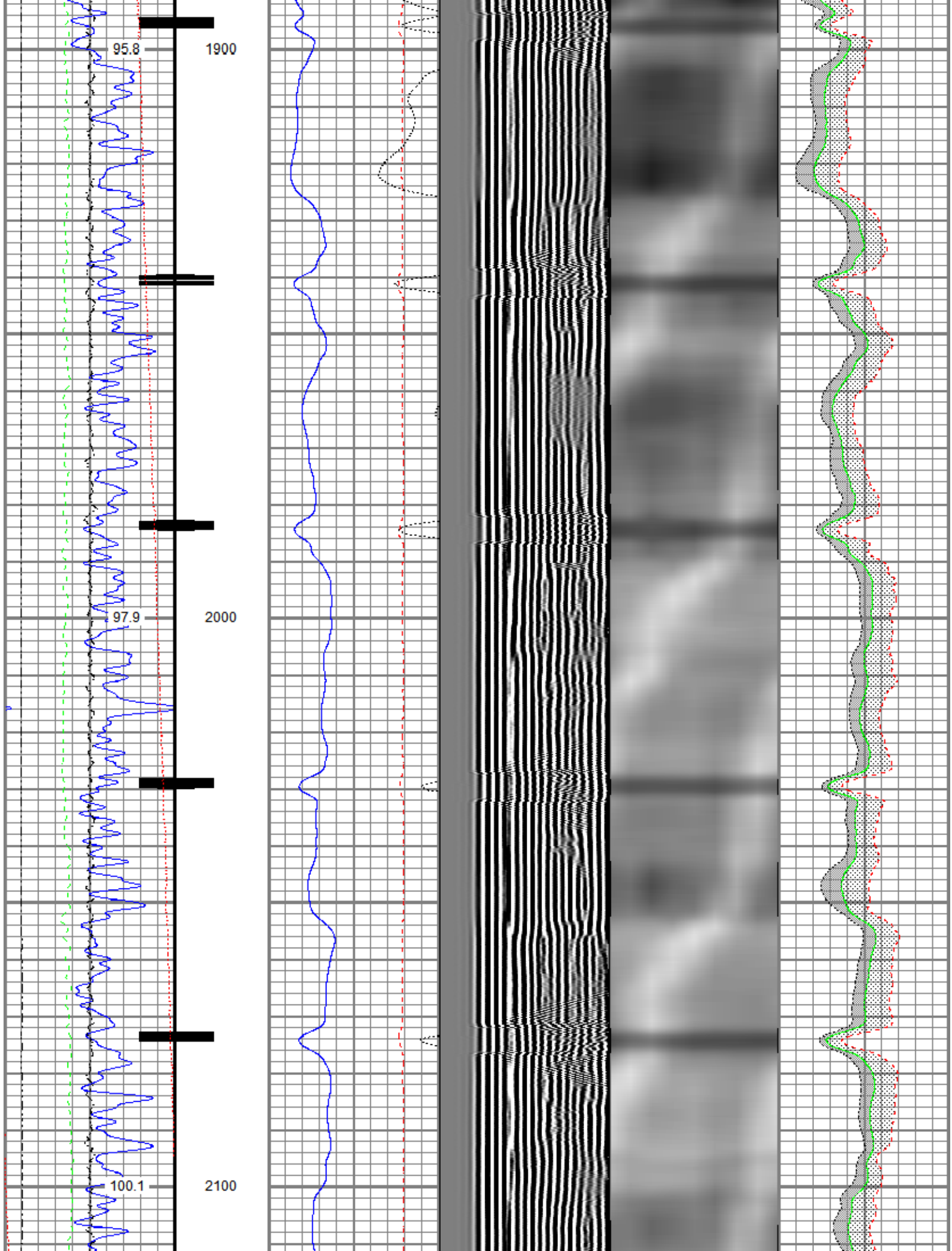


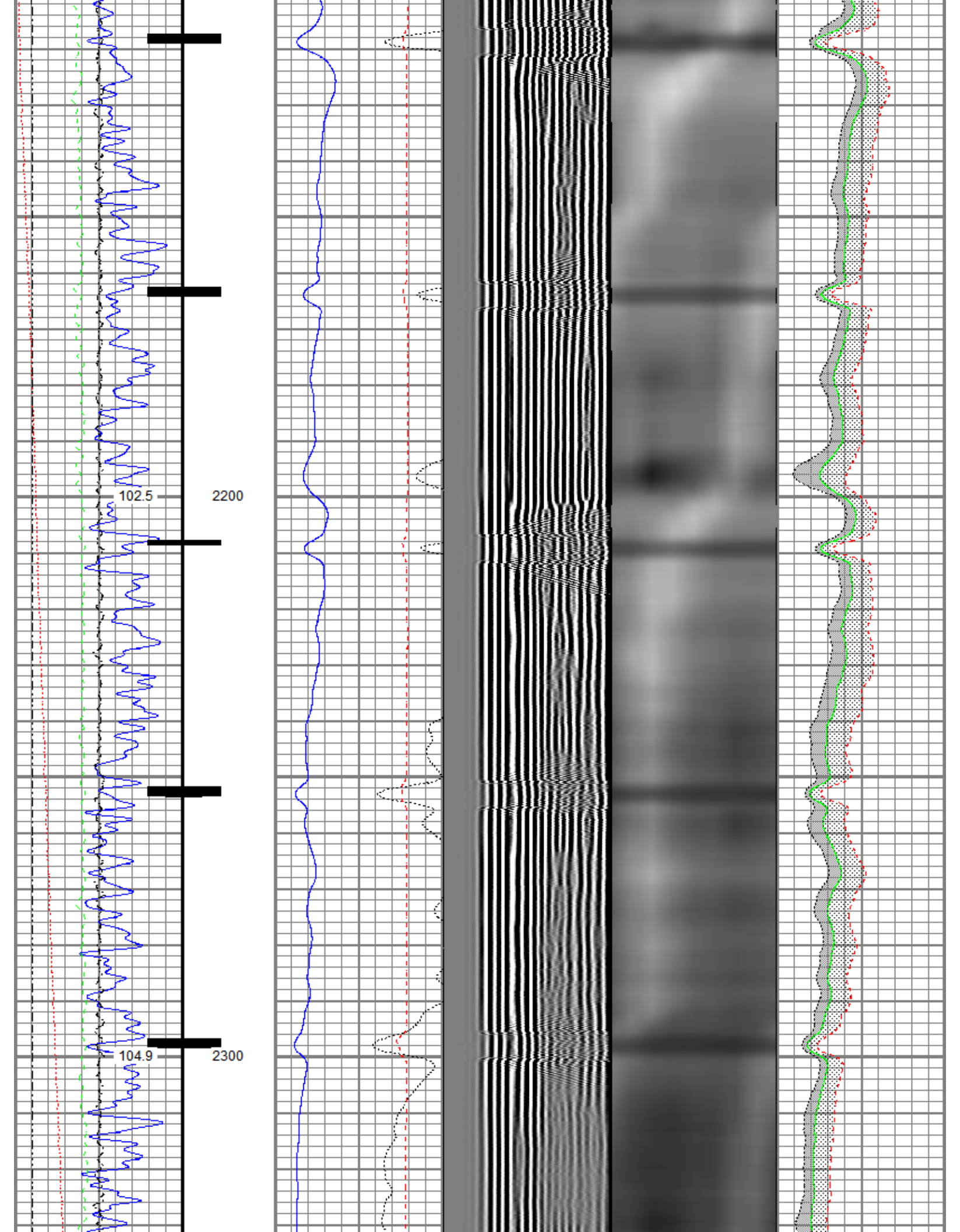


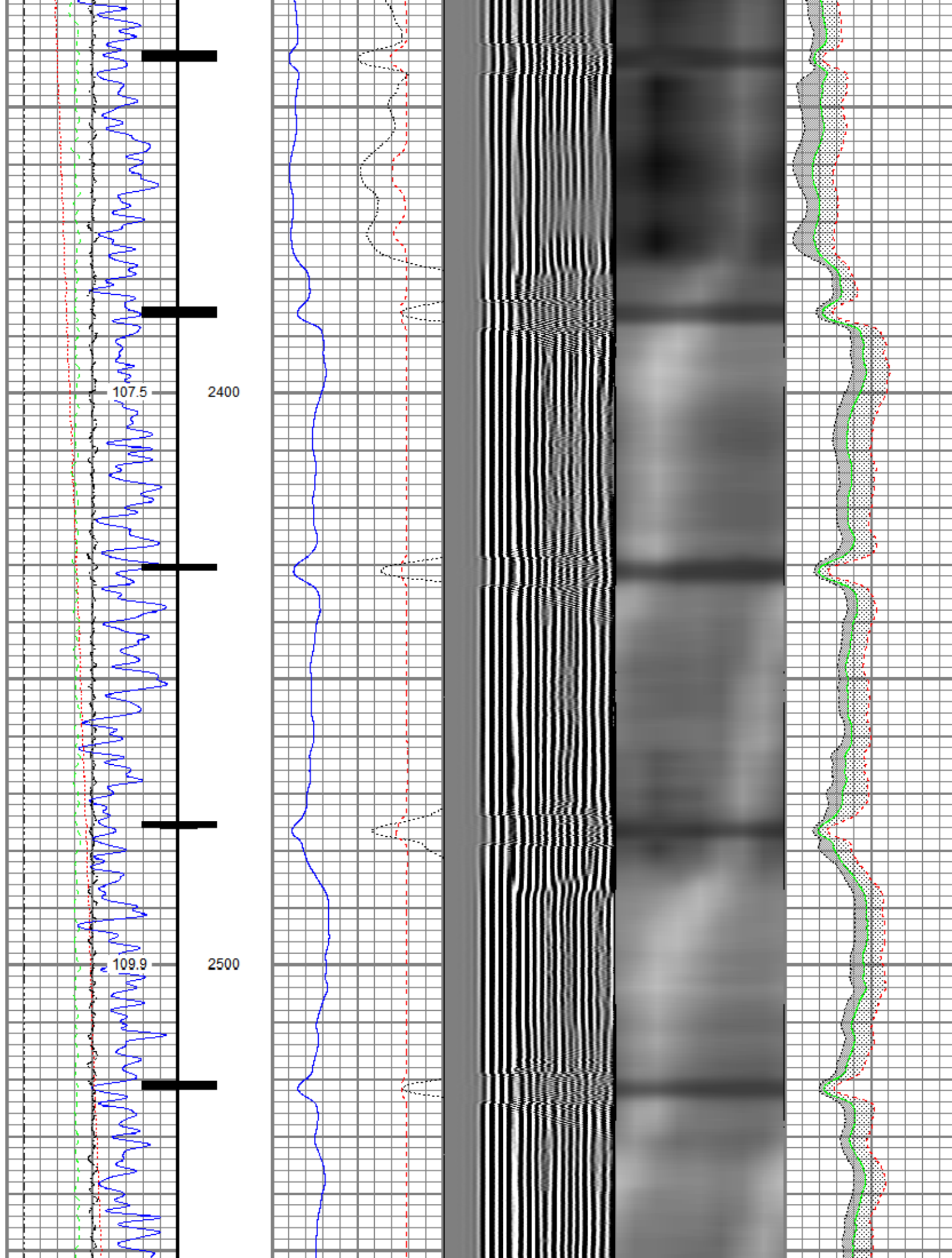


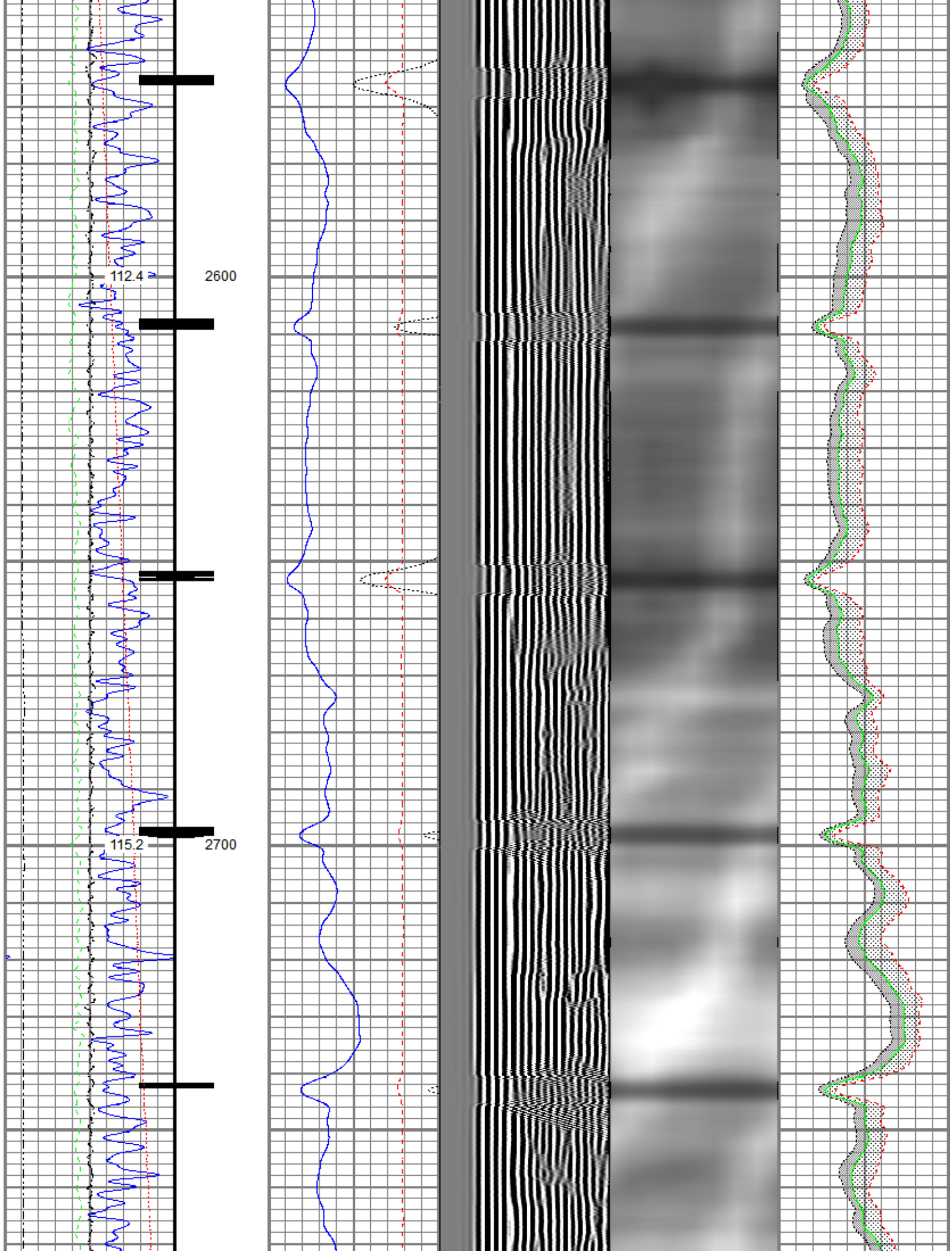


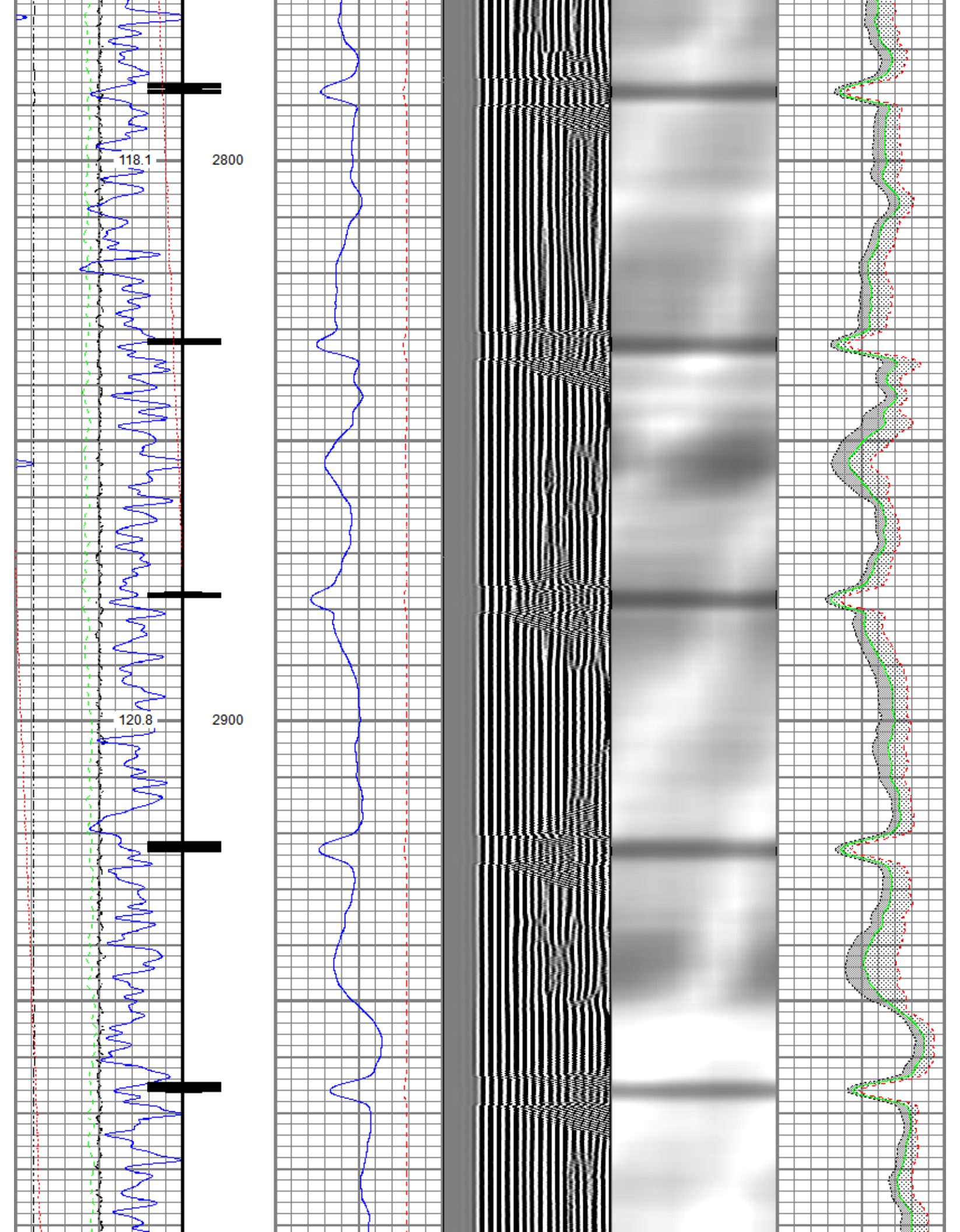


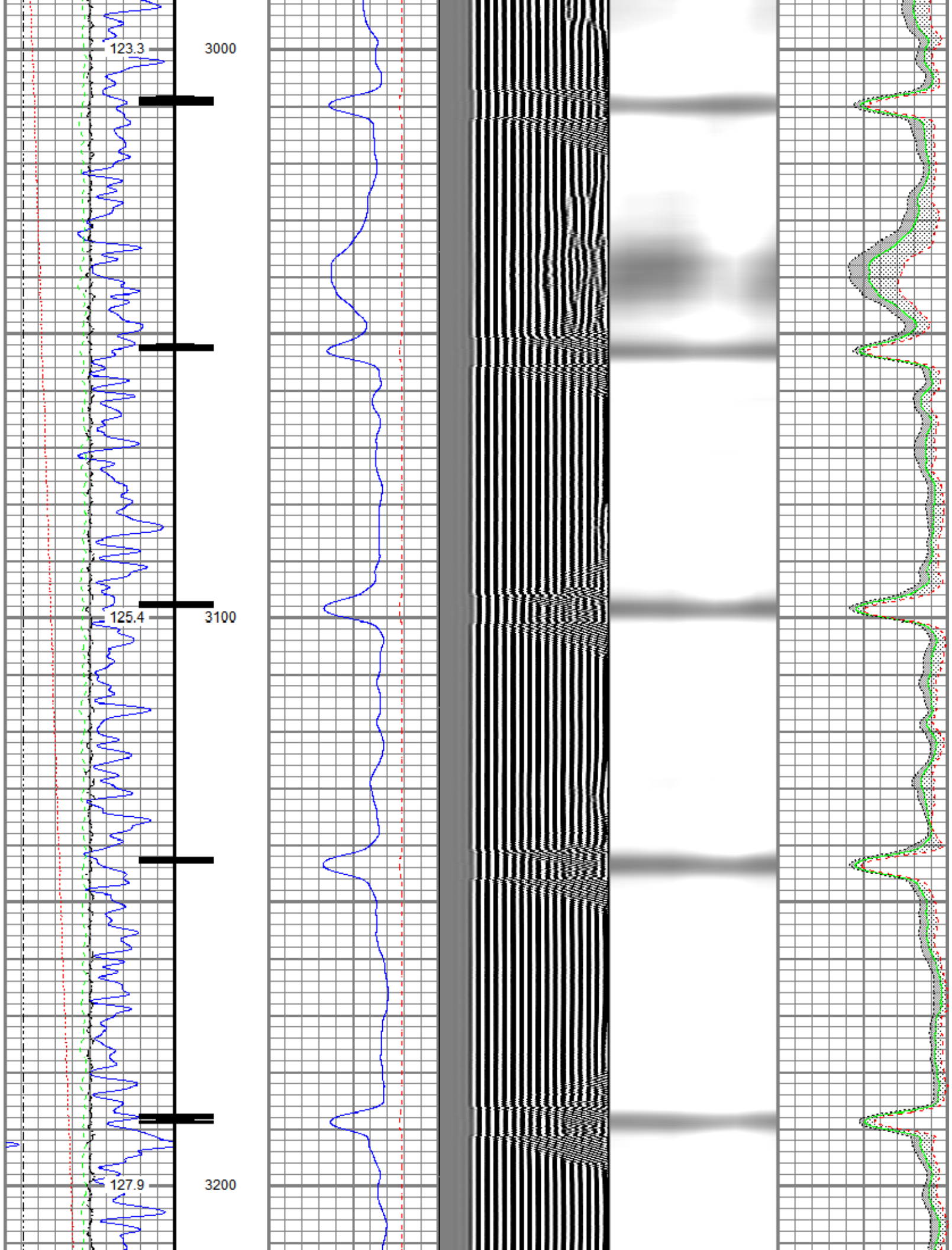


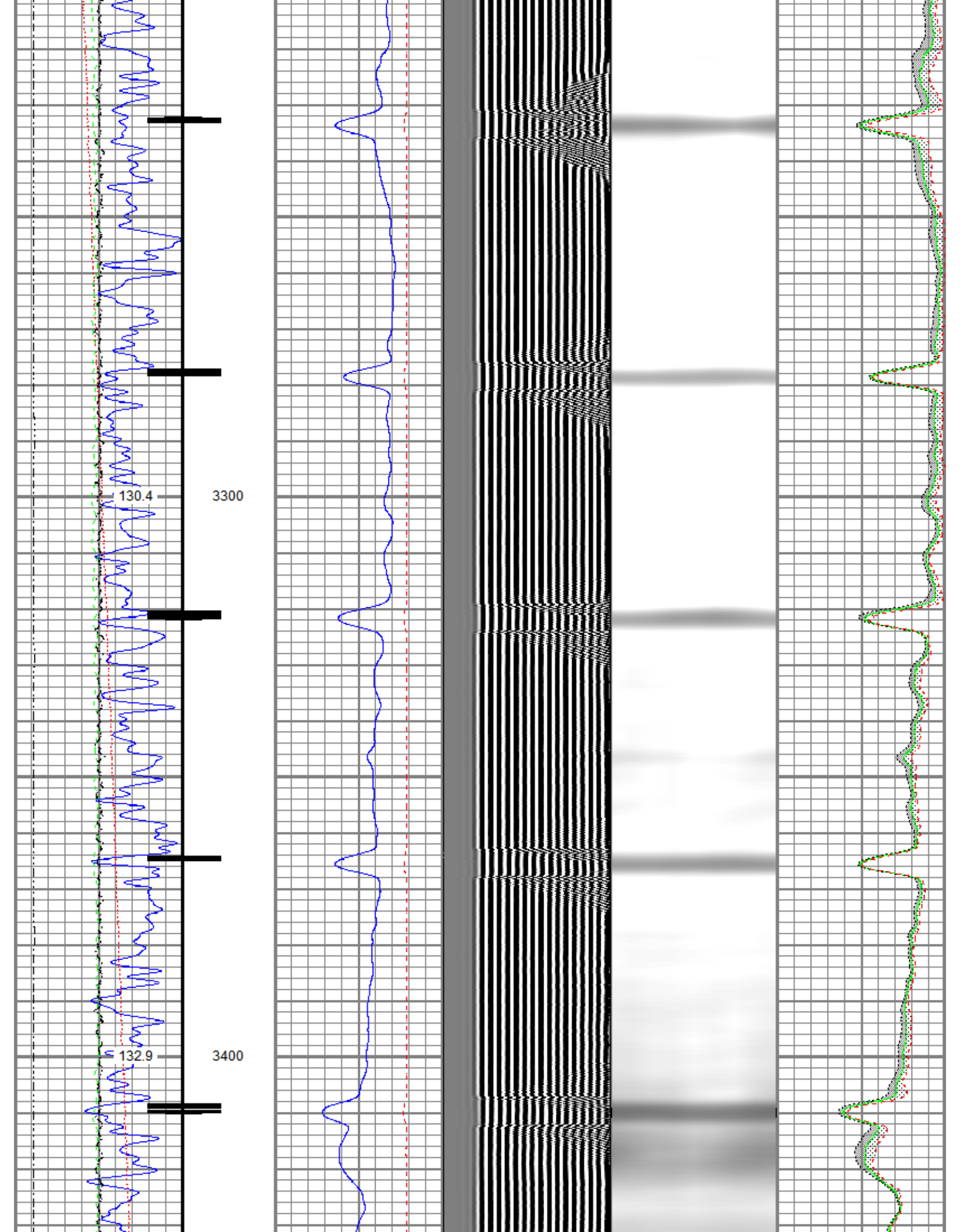


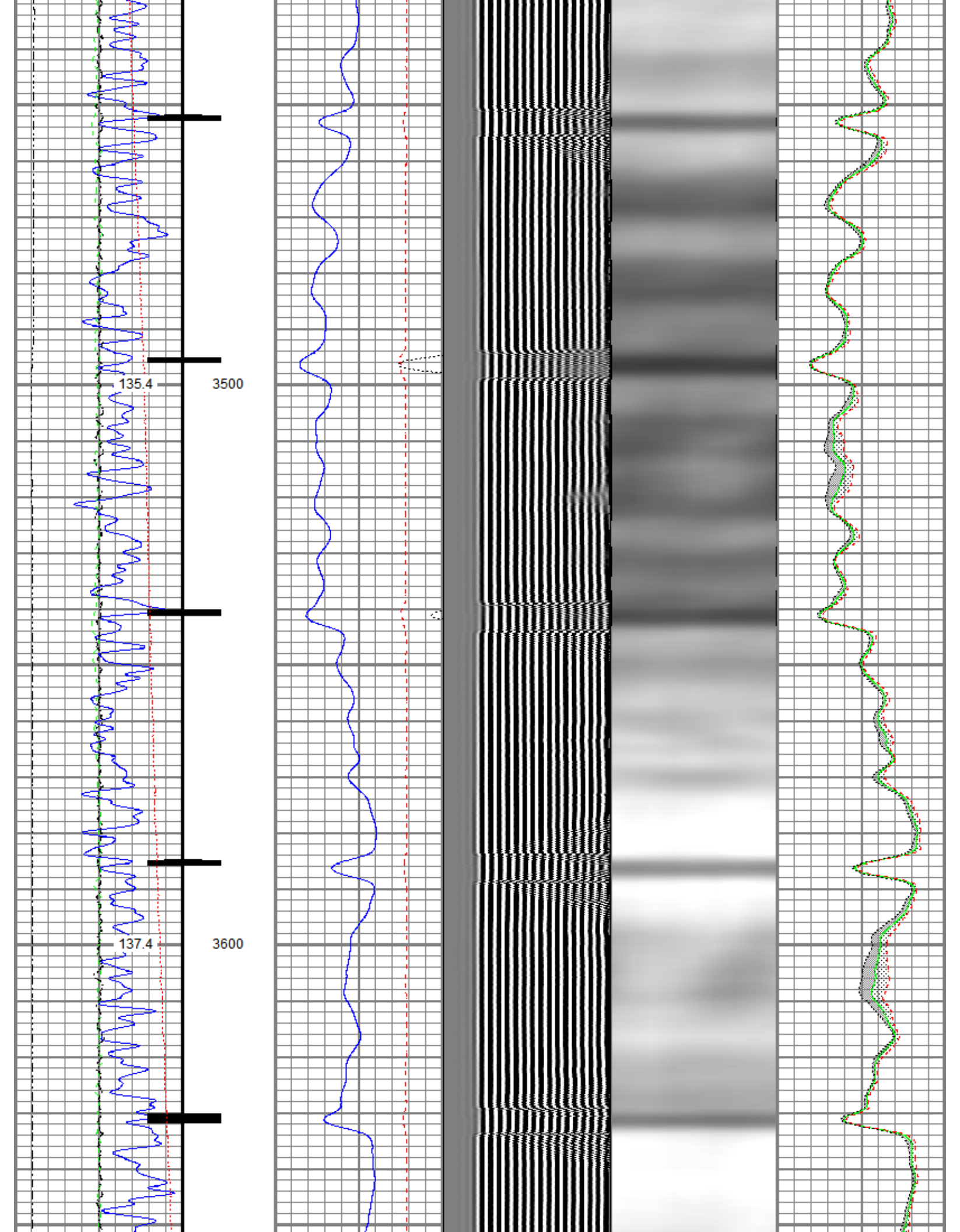


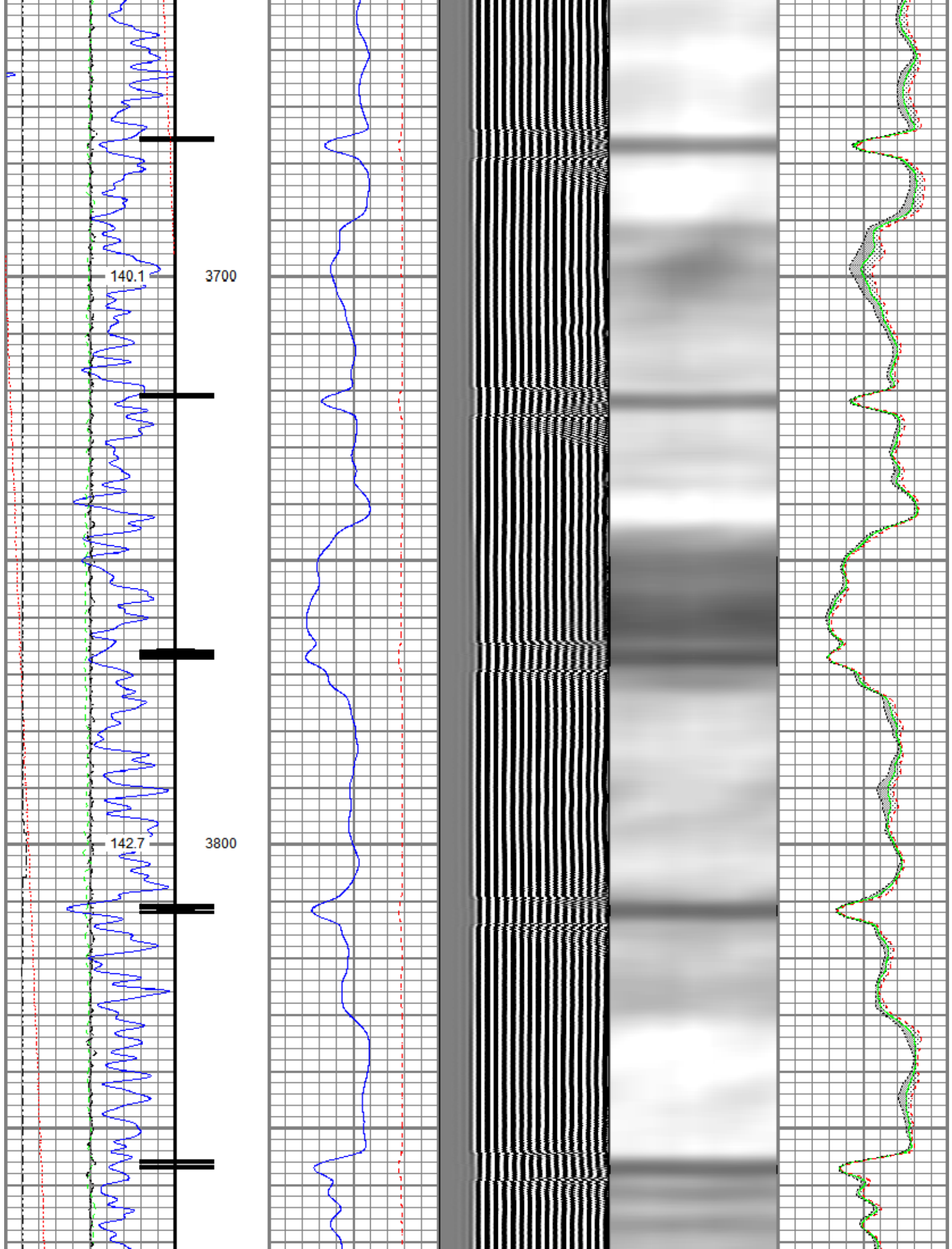


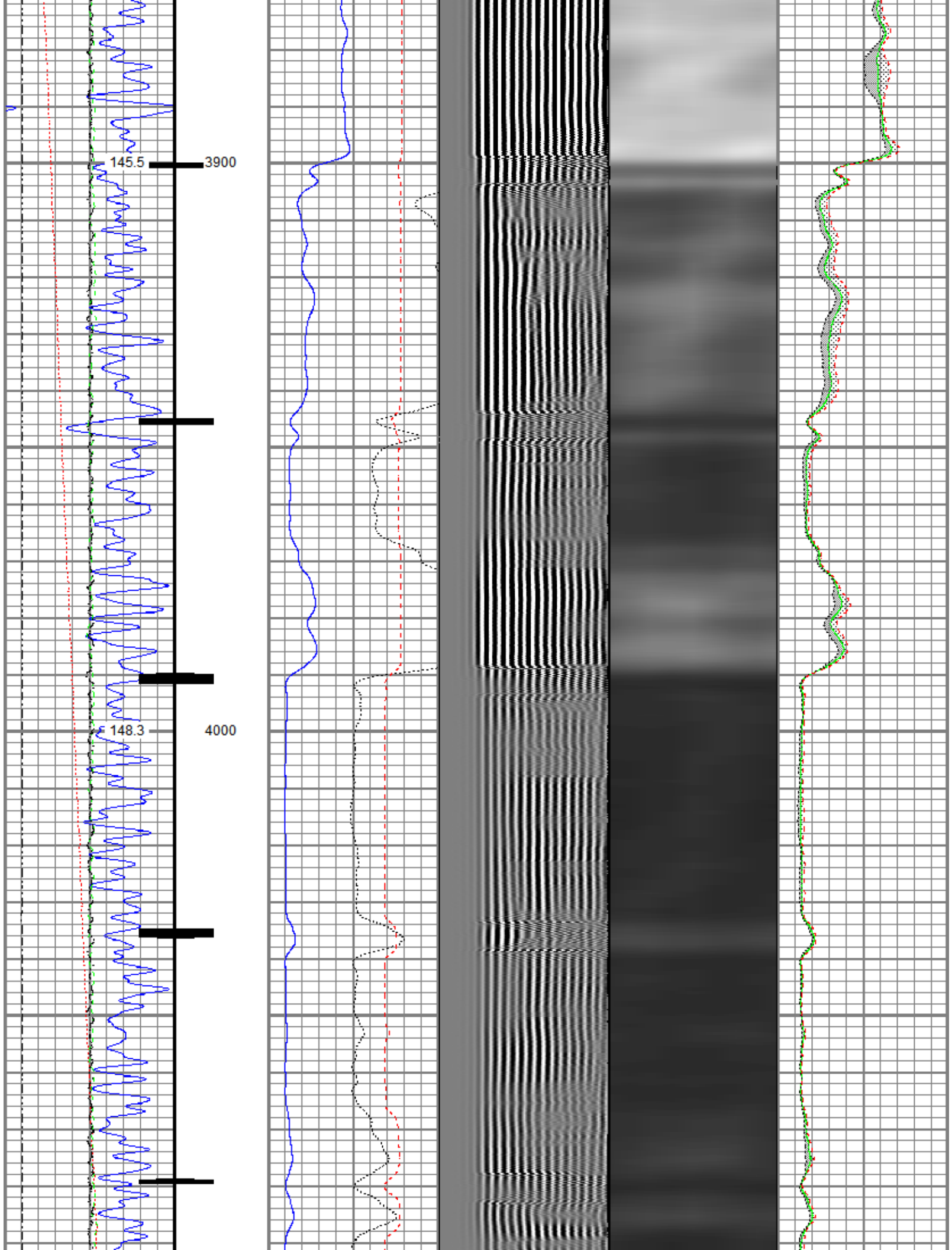


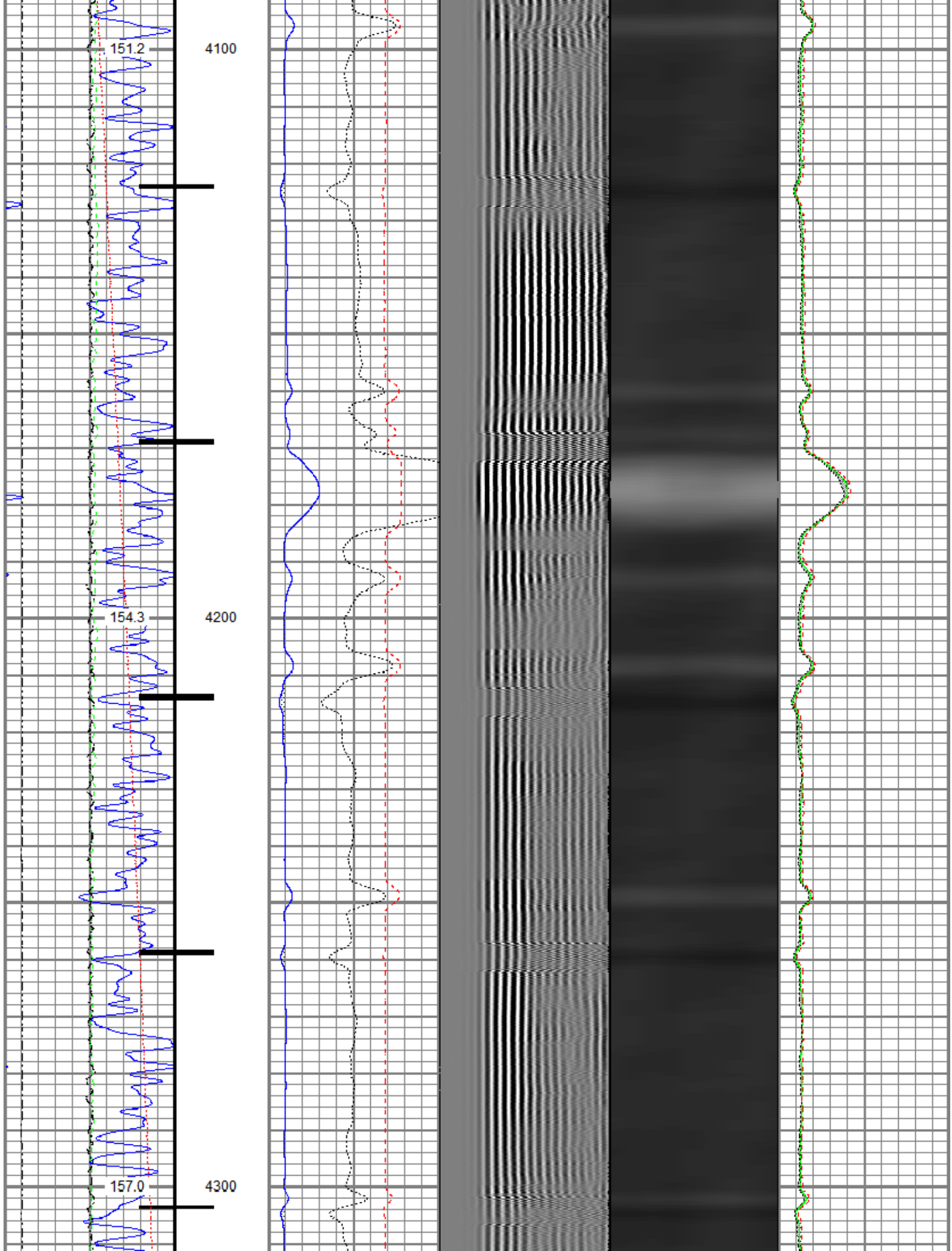


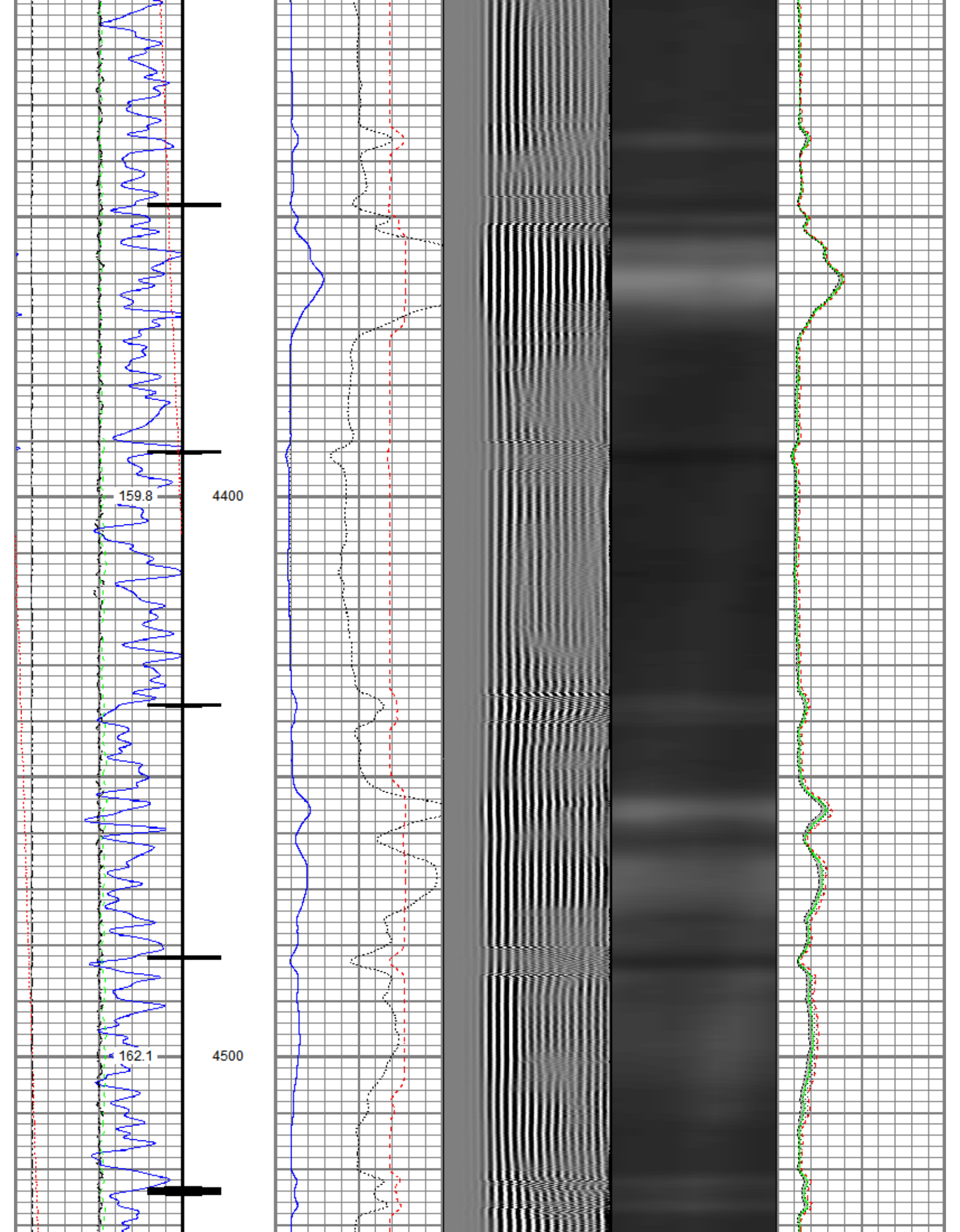


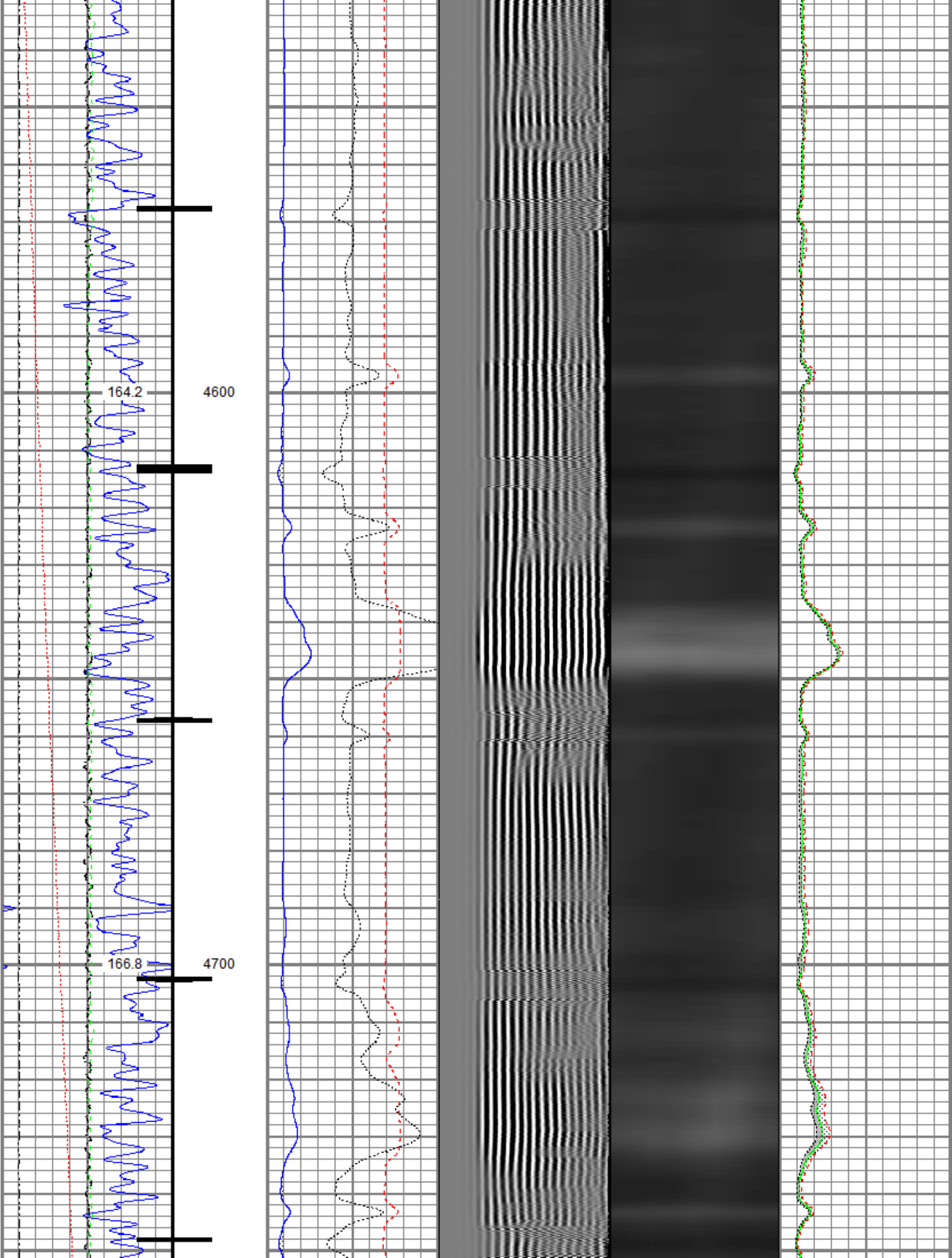


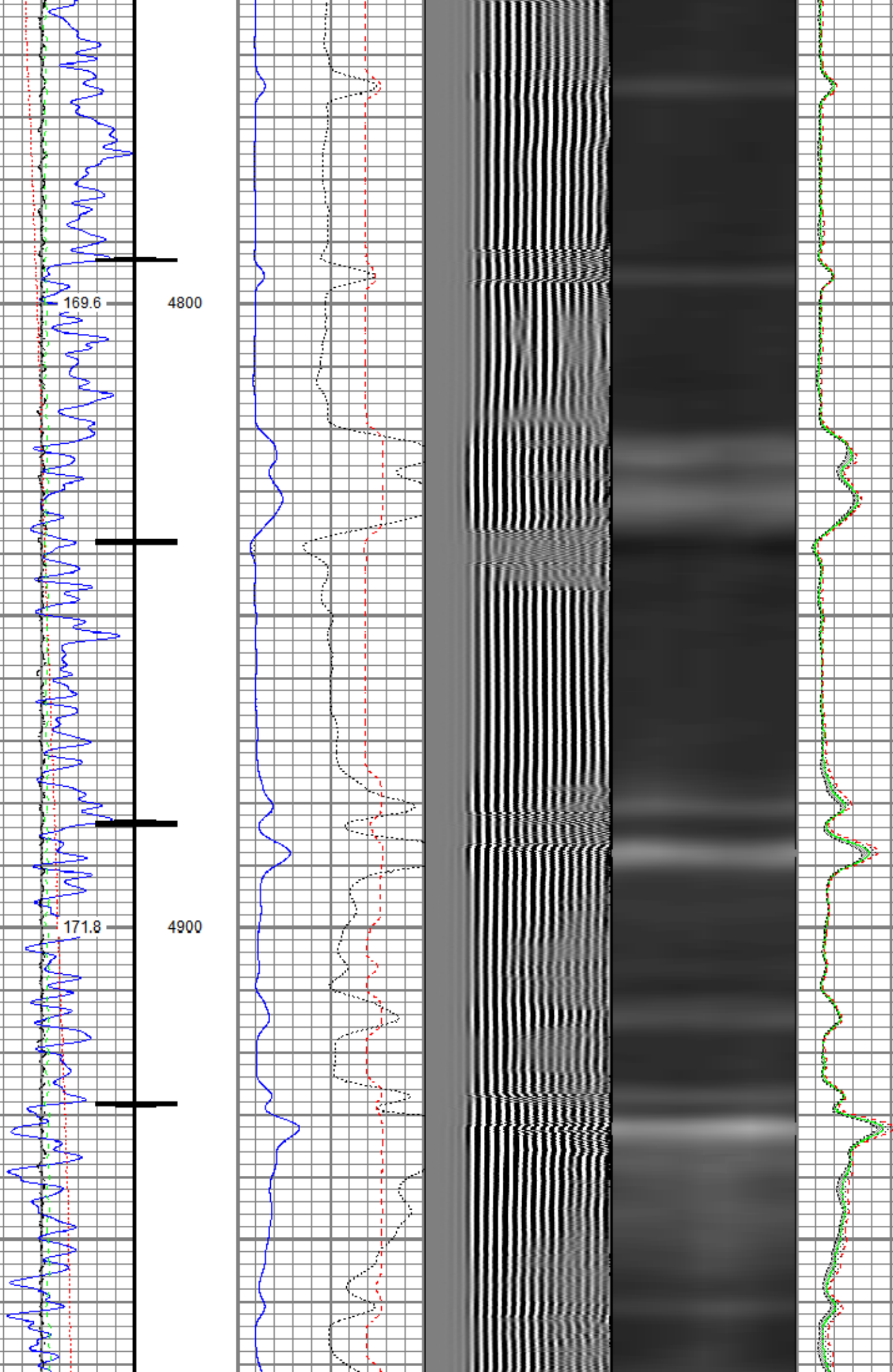


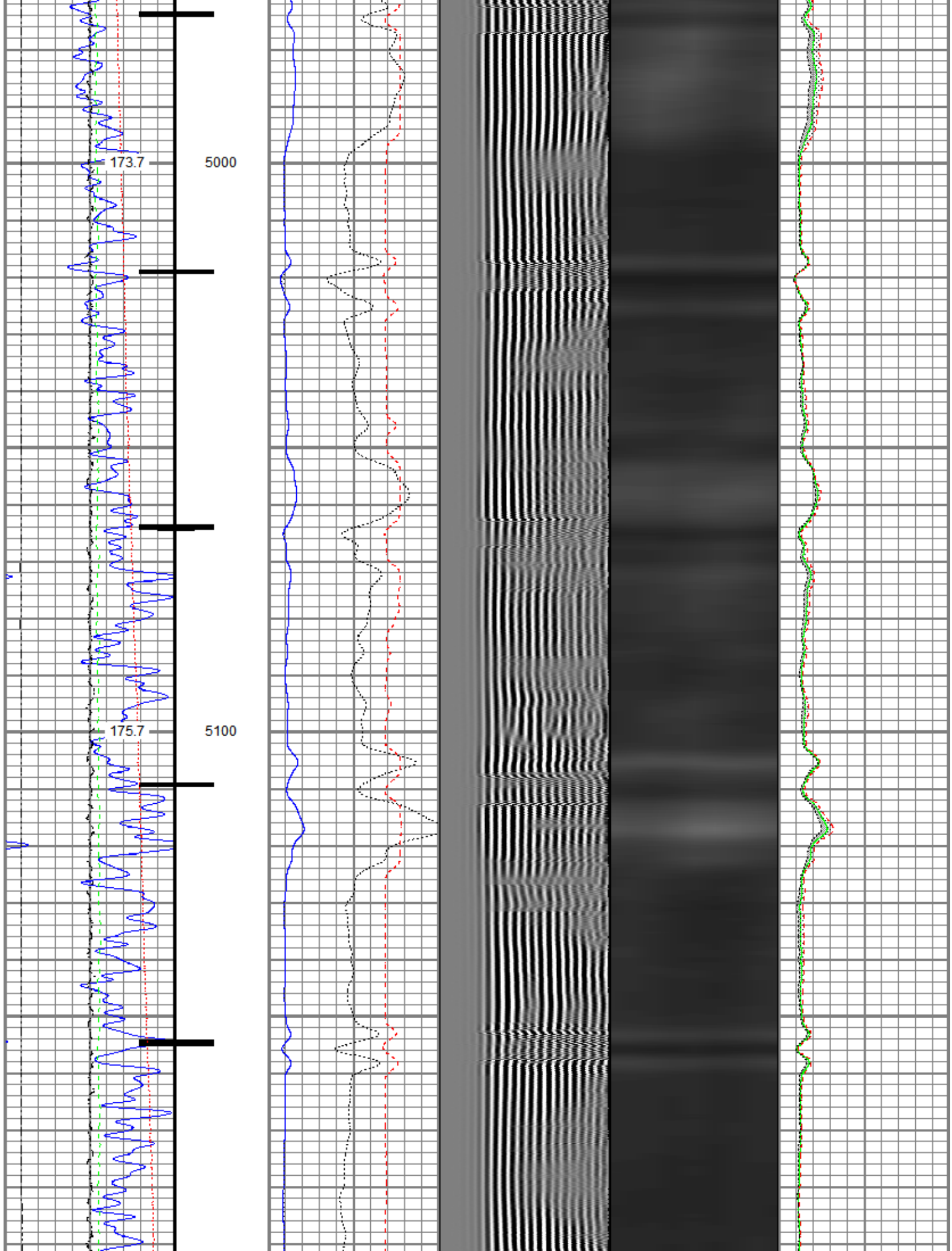


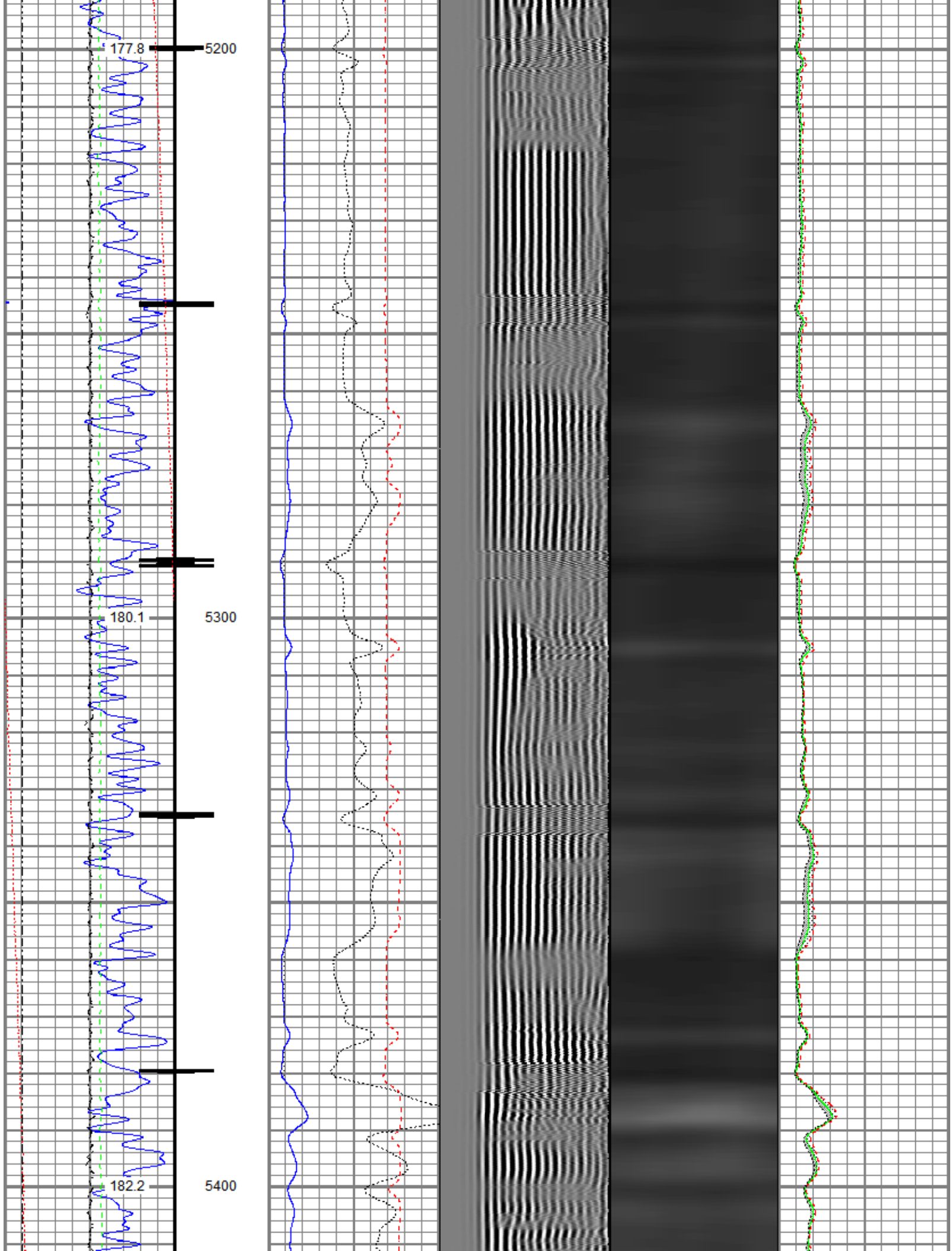


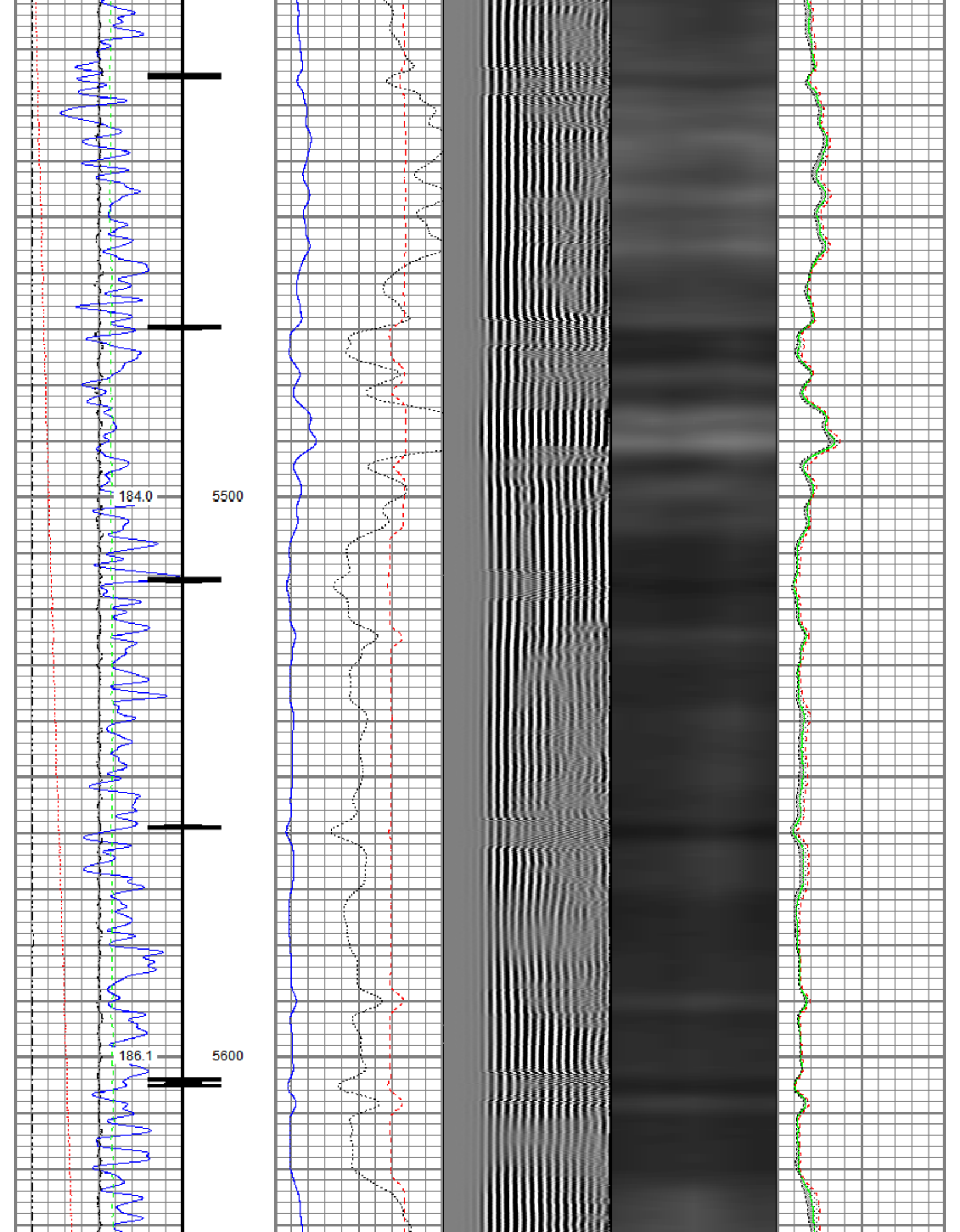


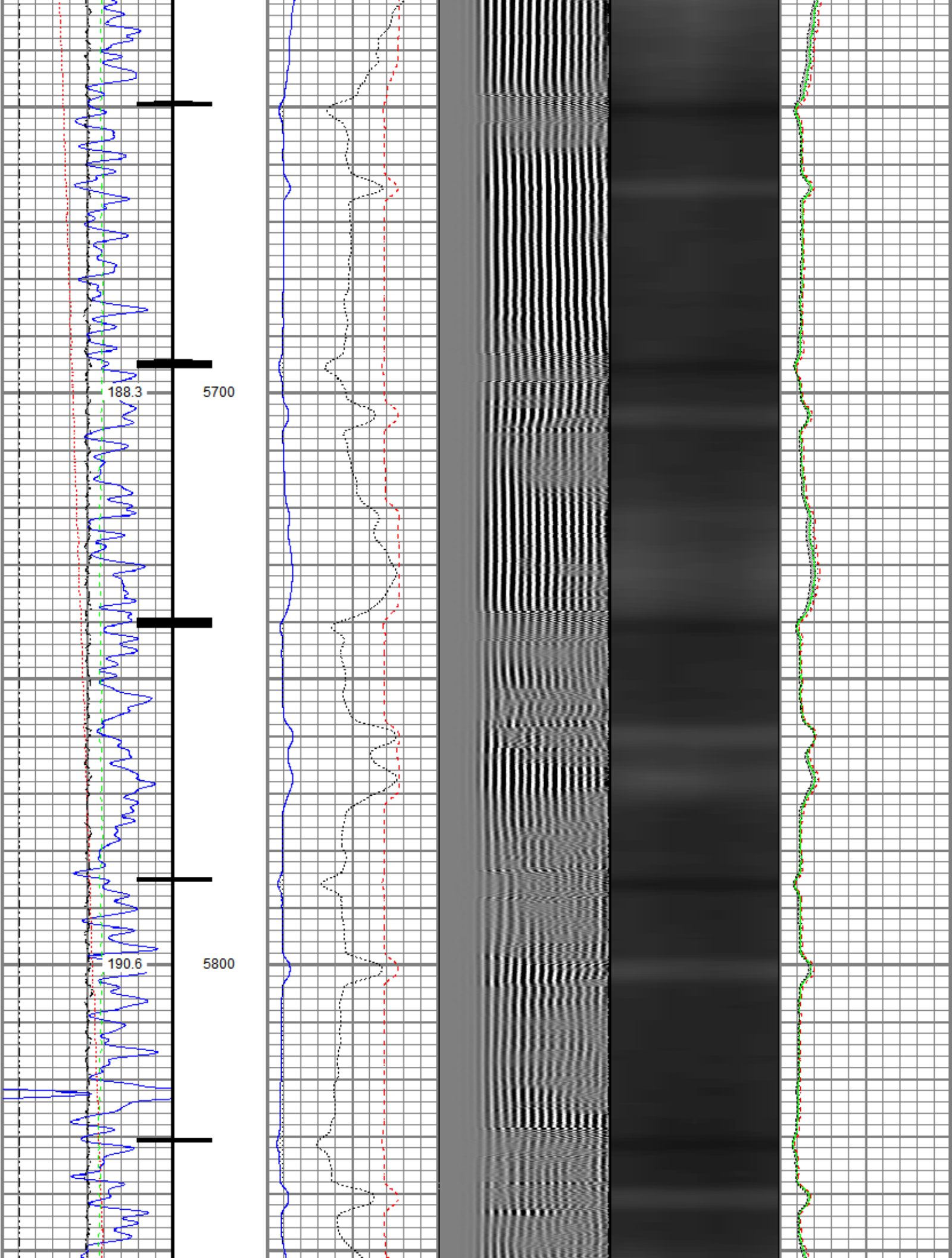


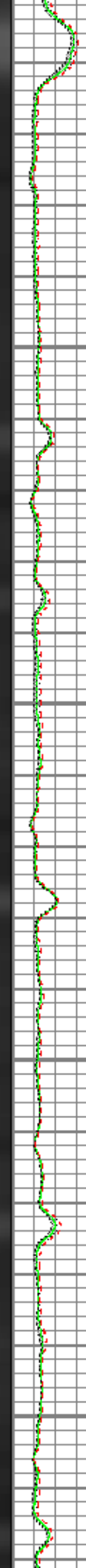
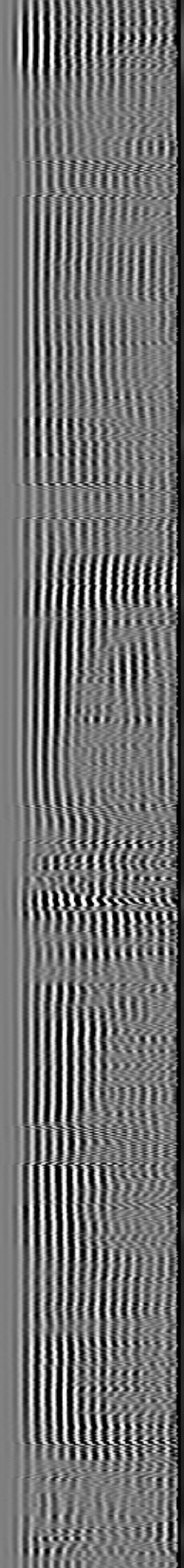
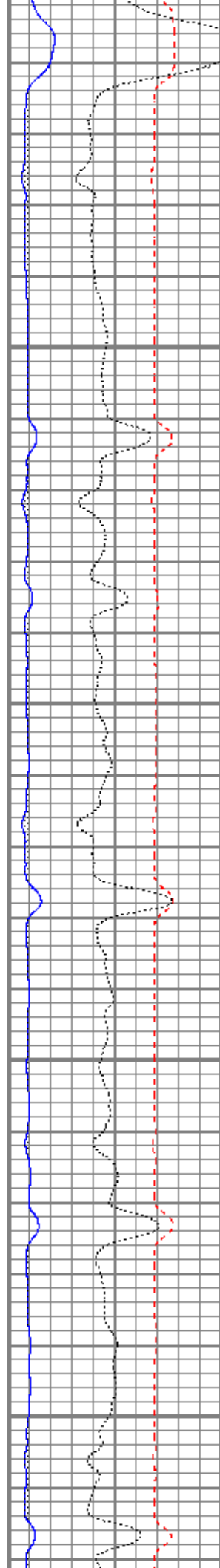
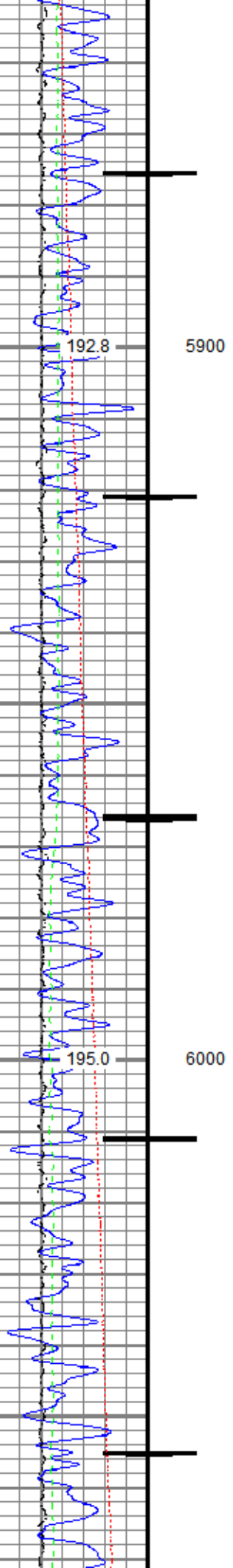


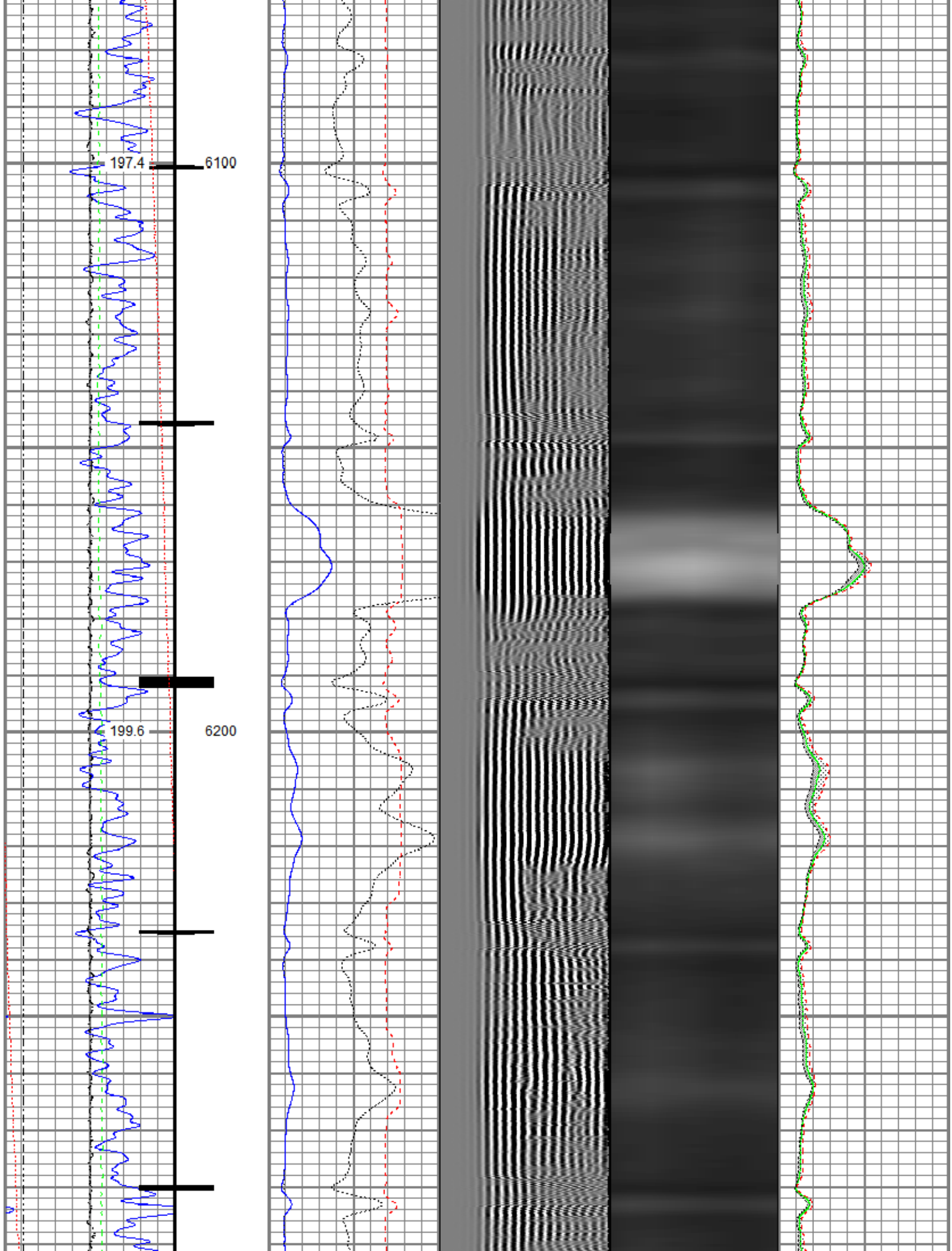


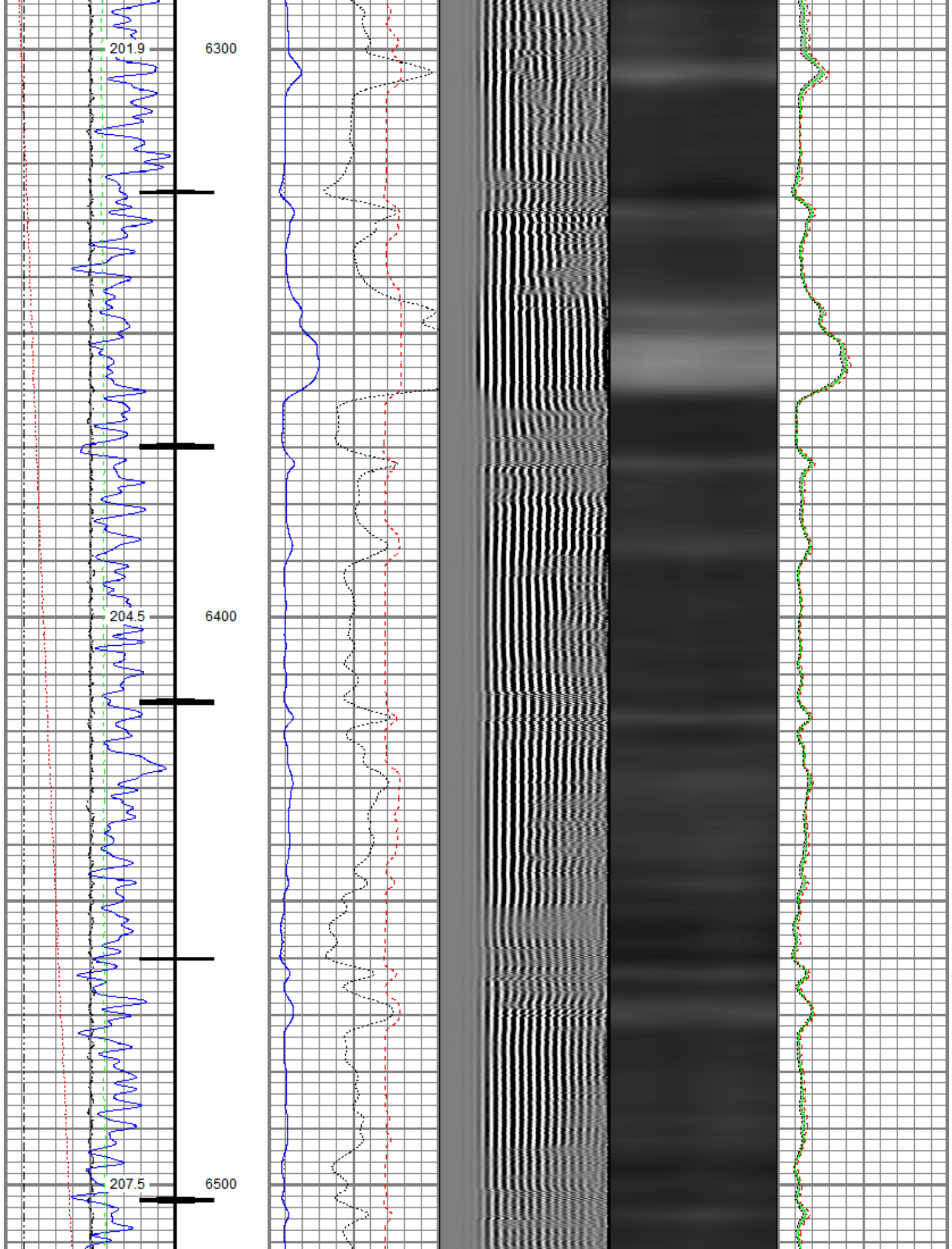


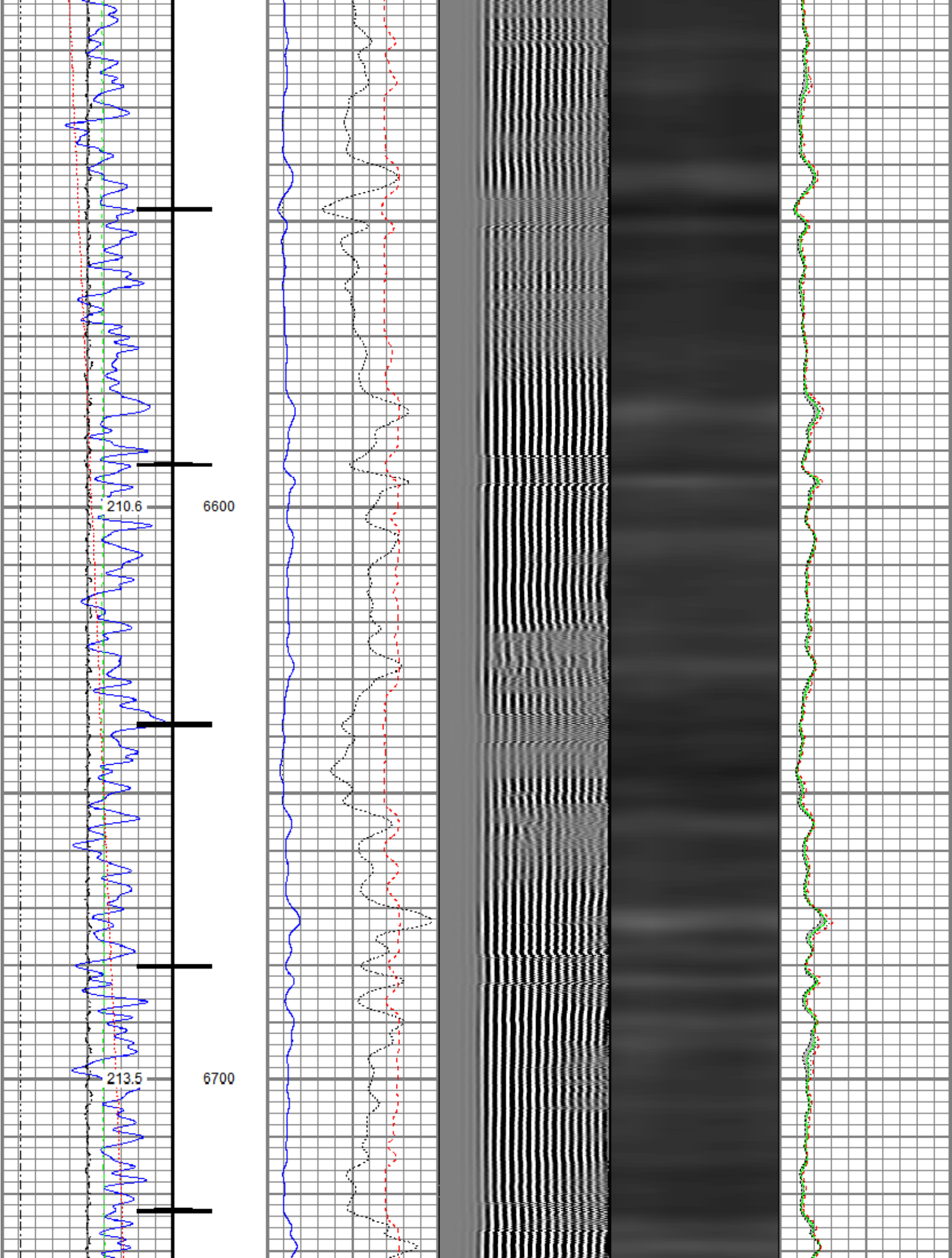


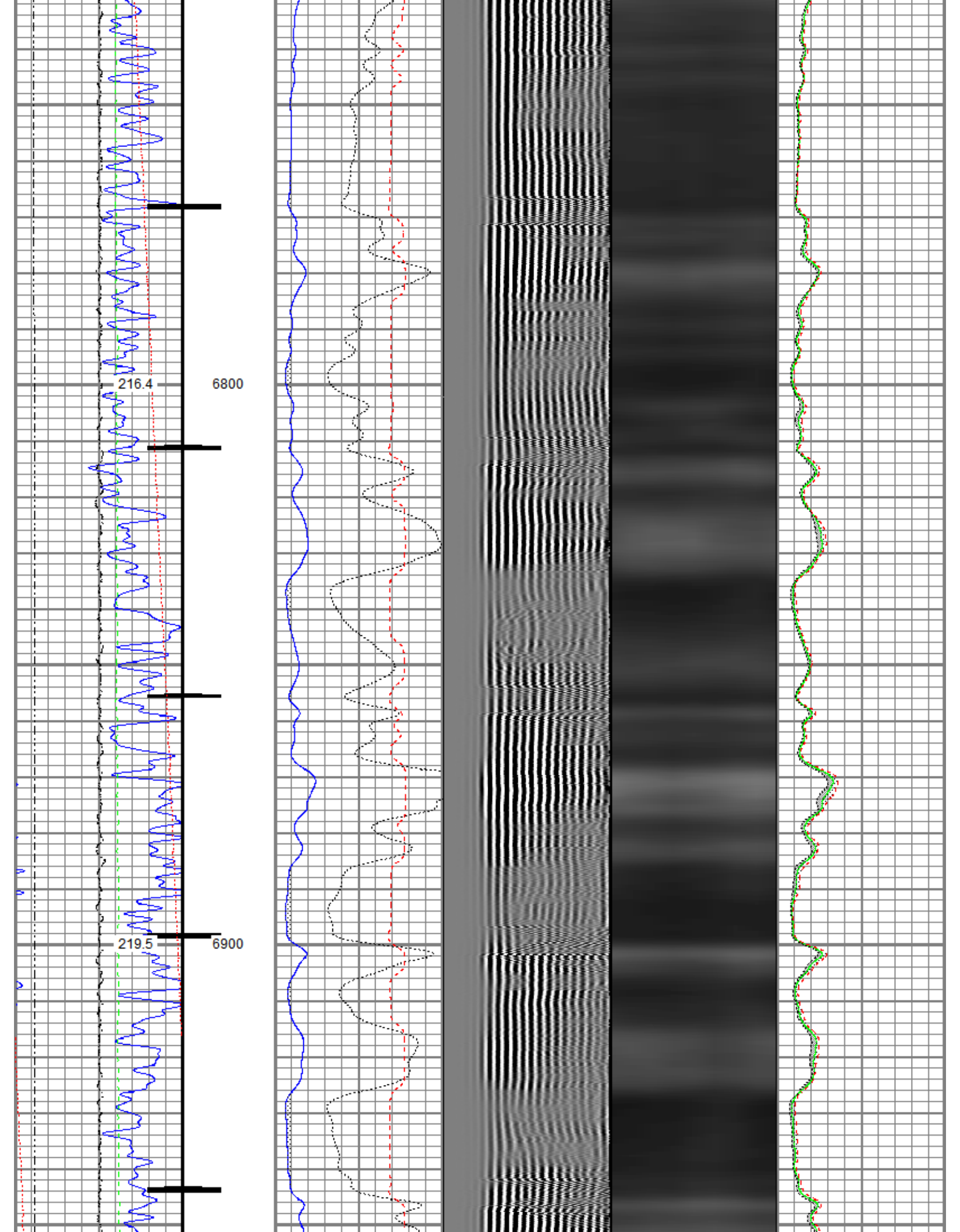


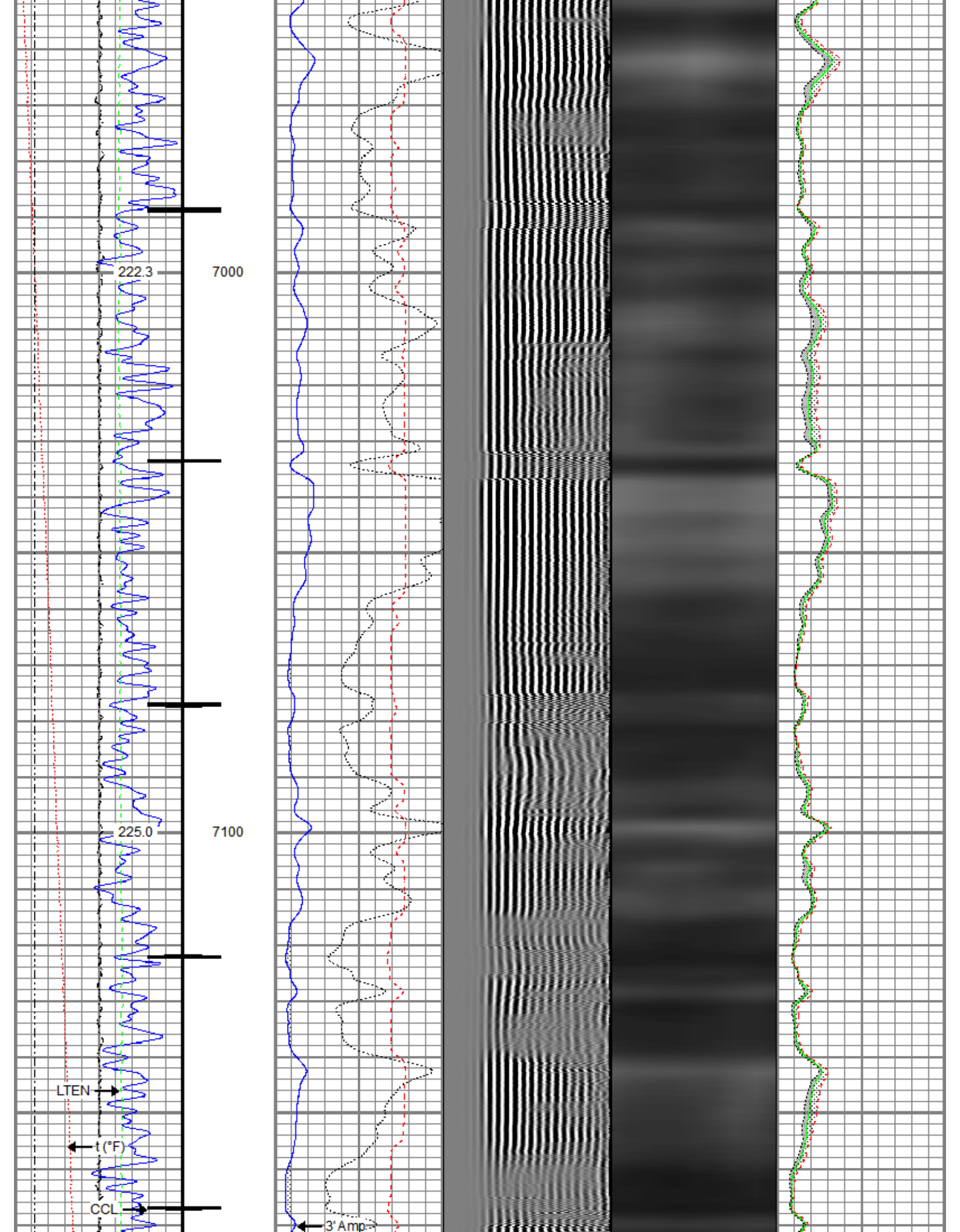


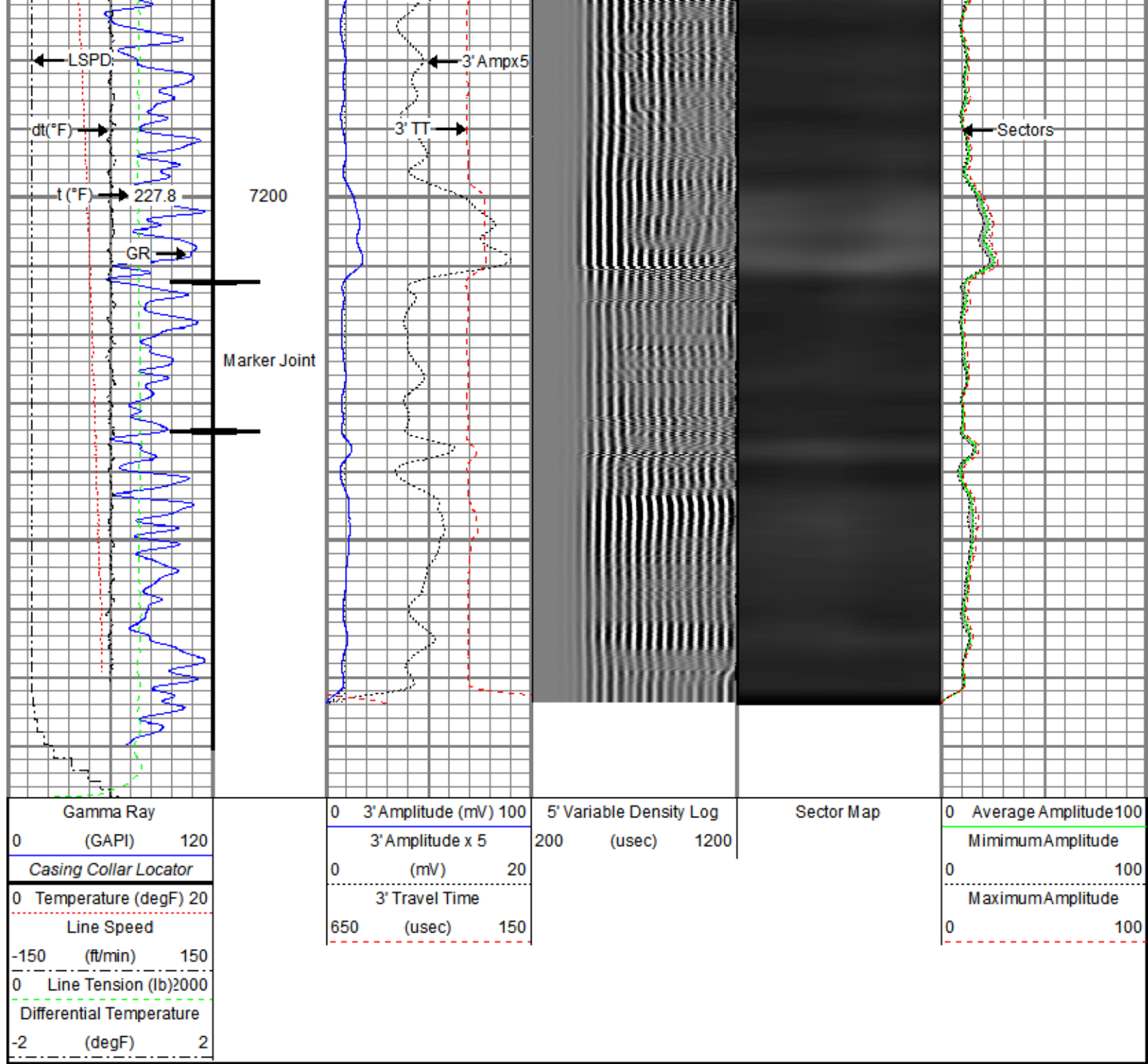










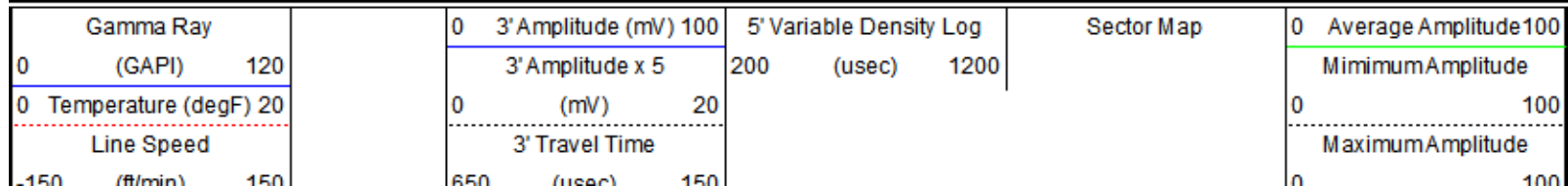


**RELIANCE**  
DILFIELD SERVICES

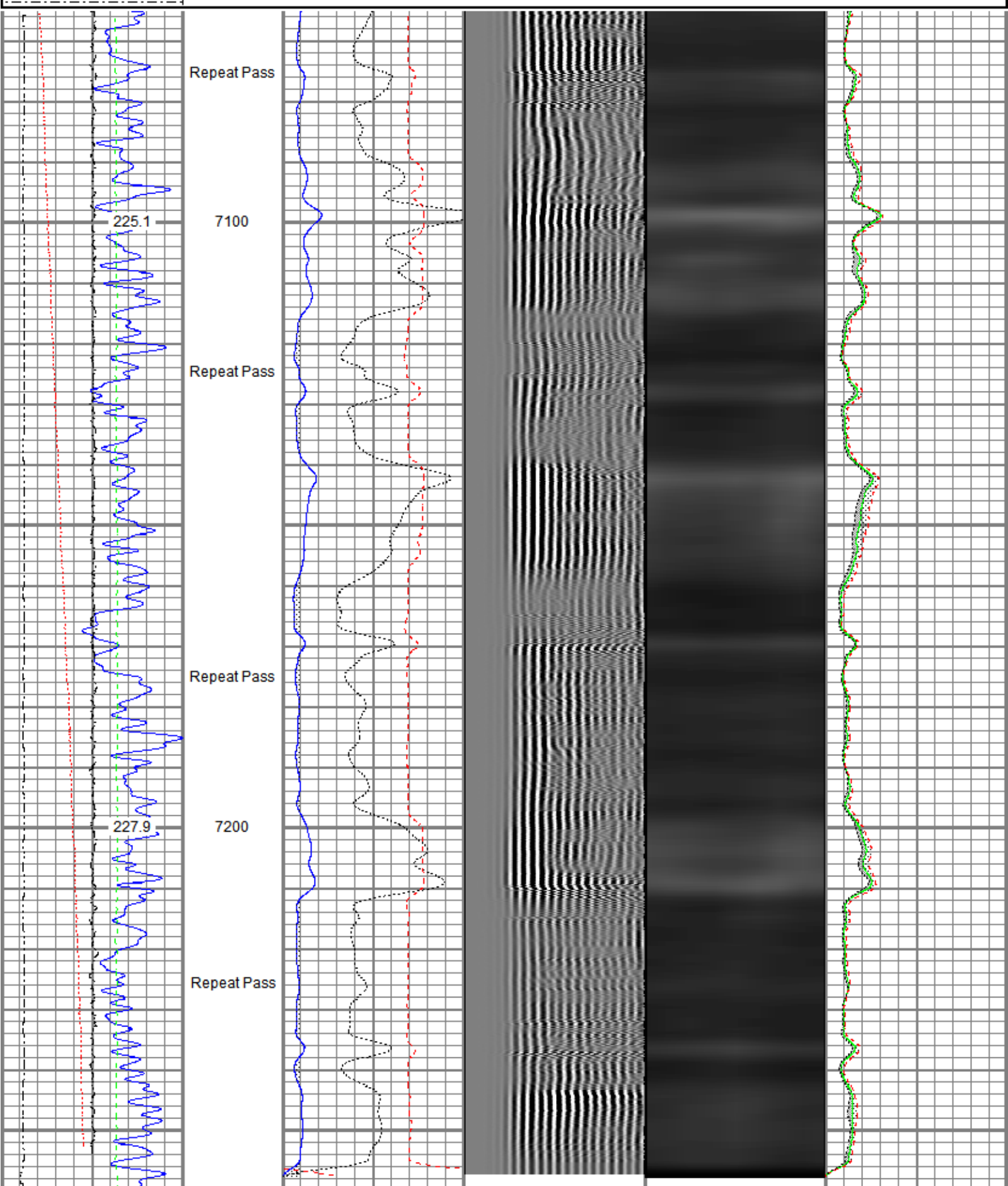
## Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

Database File oxy\_cleland 15-4hz\0512350493\_oxy\_cleland 15-4hz\_rbl\_01-31-20.db  
 Dataset Pathname rcb10/pass2.1  
 Presentation Format ros\_radrii  
 Dataset Creation Tue Feb 04 07:05:29 2020  
 Charted by Depth in Feet scaled 1:240



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



Gamma Ray  
 (GAPI) 120

0 3' Amplitude (mV) 100  
 3' Amplitude x 5

5' Variable Density Log  
 200 (usec) 1200

Sector Map

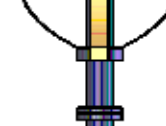
0 Average Amplitude 100  
 Minimum Amplitude

0	Temperature (degF)	20
Line Speed		
-150	(ft/min)	150
0 Line Tension (lb) 2000		
Differential Temperature		
-2	(degF)	2

0	(mV)	20
3" Travel Time		
650	(usec)	150

0	Maximum Amplitude	100
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) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00	

LOCTIM	0.00		Probe CENT-2750	2.88	2.75	20.00
UTCTIM	0.00		Probe 2-3/4" Electric Inline Bowspring Centralizer			

Dataset: 0512350493\_Oxy\_Cleland 15-4HZ\_RBL\_01-31-20.db: field/well/rcbl0/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\Oxy_Cleland 15-4HZ\0512350493_Oxy_Cleland 15-4HZ_RBL_01-31-20.db
Dataset Pathname	rcbl0/pass4.1
Dataset Creation	Sat Feb 01 10:34:49 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:	89.798	ft

Master Calibration, performed (Derived):						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.771	0.000	71.921	93.254	-0.009
CAL	0.007	0.638				
5'	0.000	0.653	0.000	71.921	110.092	-0.005
SUM						
S1	0.000	0.761	0.000	100.000	131.444	-0.013
S2	0.000	0.754	0.000	100.000	132.608	-0.012
S3	0.000	0.765	0.000	100.000	130.758	-0.012
S4	0.000	0.805	0.000	100.000	124.163	-0.012
S5	0.000	0.803	0.000	100.000	124.548	-0.013
S6	0.000	0.811	0.000	100.000	123.288	-0.012
S7	0.000	0.797	0.000	100.000	125.484	-0.012
S8	0.000	0.772	0.000	100.000	129.535	-0.012

Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.638	1.000	0.000

Air Zero Calibration, performed Fri Jan 31 10:39:43 2020:						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Gain	Offset

	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

**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** Cleland 15-4HZ  
**Field** Wattenberg  
**County** Weld  
**State** Colorado