



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company SRC Energy Inc
Well Falken 33N-9C-L
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-45114
SEC 11 TWP 6N RGE 66W
Permanent Datum Ground Level Elevation 4810'
Log Measured From Ground Level 0 FT
Drilling Measured From Kelly Bushing
Other Services
JB/GR
RBP
Pull RBP
Elevation
K.B. 4835'
D.F. ---
G.L. 4810'

Date	18-MAR-2018	Four		
Run Number		18969 FT (GL)		
Depth Driller		6800 FT		
Depth Logger		6795 FT		
Bottom Logged Interval		Surface		
Top Log Interval		8.5"		
Open Hole Size		Water		
Type Fluid		Density / Viscosity	8.34 lb/gal	
		Max. Recorded Temp.	219°F	
		Estimated Cement Top	See Log	
		Time Well Ready	ROA	
		Time Logger on Bottom	1130	
		Equipment Number	HD-325	
		Location	Fort Lupton, CO	
		Recorded By	C. Bryan	
		Witnessed By	Tom Flynn	
Borehole Record				
Run Number	Bit	From	To	Size
				Weight
				From
				To
Tubing Record				
Casing Record	Size (in)	Wgt (lbs/ft)	Grade	Top
Surface Casing	9 5/8	36	J-55	Surface
Intermediate #1	5 1/2	20	P-110	Surface
Intermediate #2				
Inner				

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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.

Comments

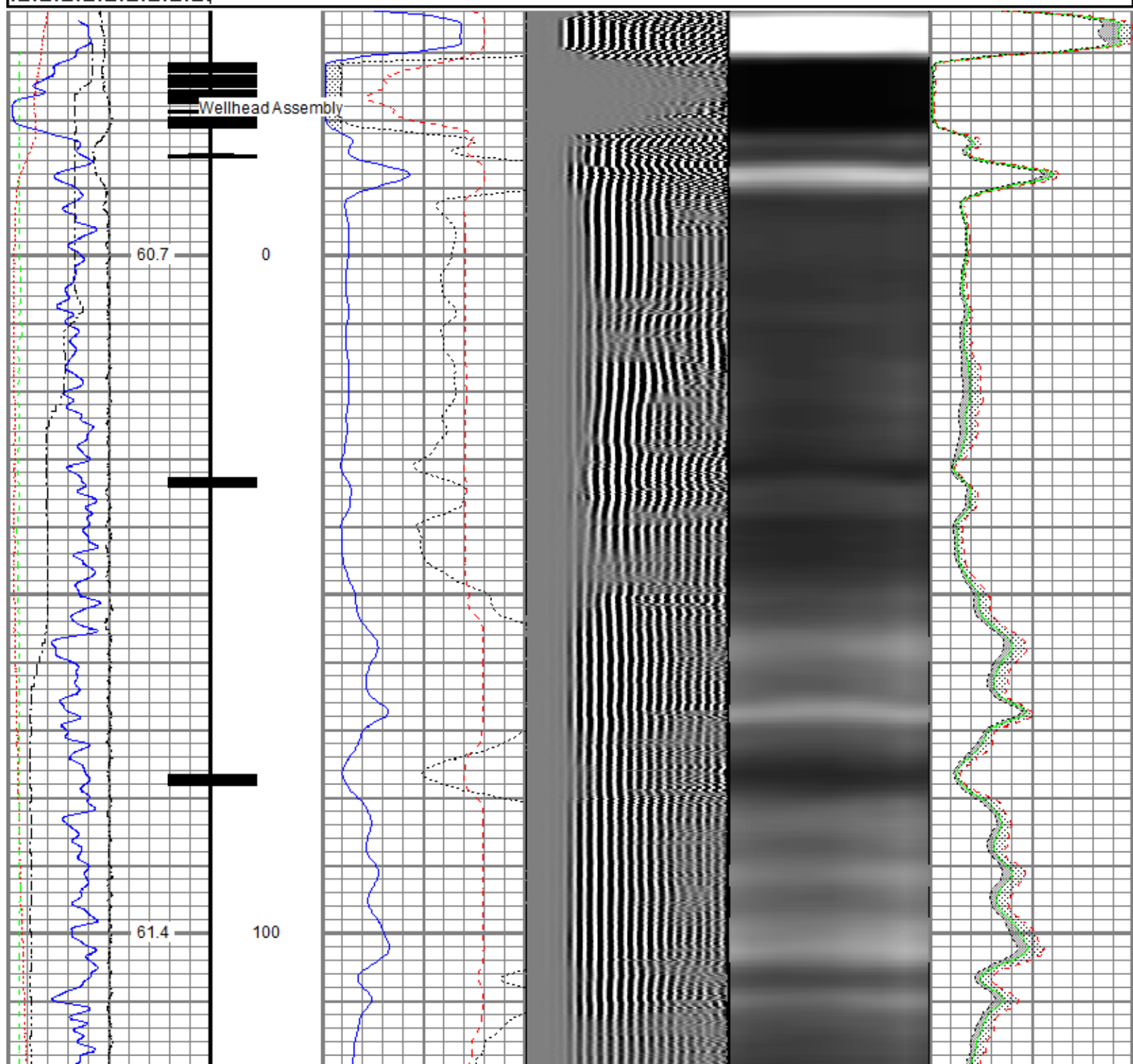
Log ran as per customer request
Log measured to Ground Level at 0 FT
Depth referenced to Casing Tally reported Marker Joint at 6414 FT
Adjusted -14 FT to correlate with Marker Joint
Log ran from deep as possible to Surface
Log ran with 2500 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations
Thank you for choosing Reliance Oilfield Services, LLC!!

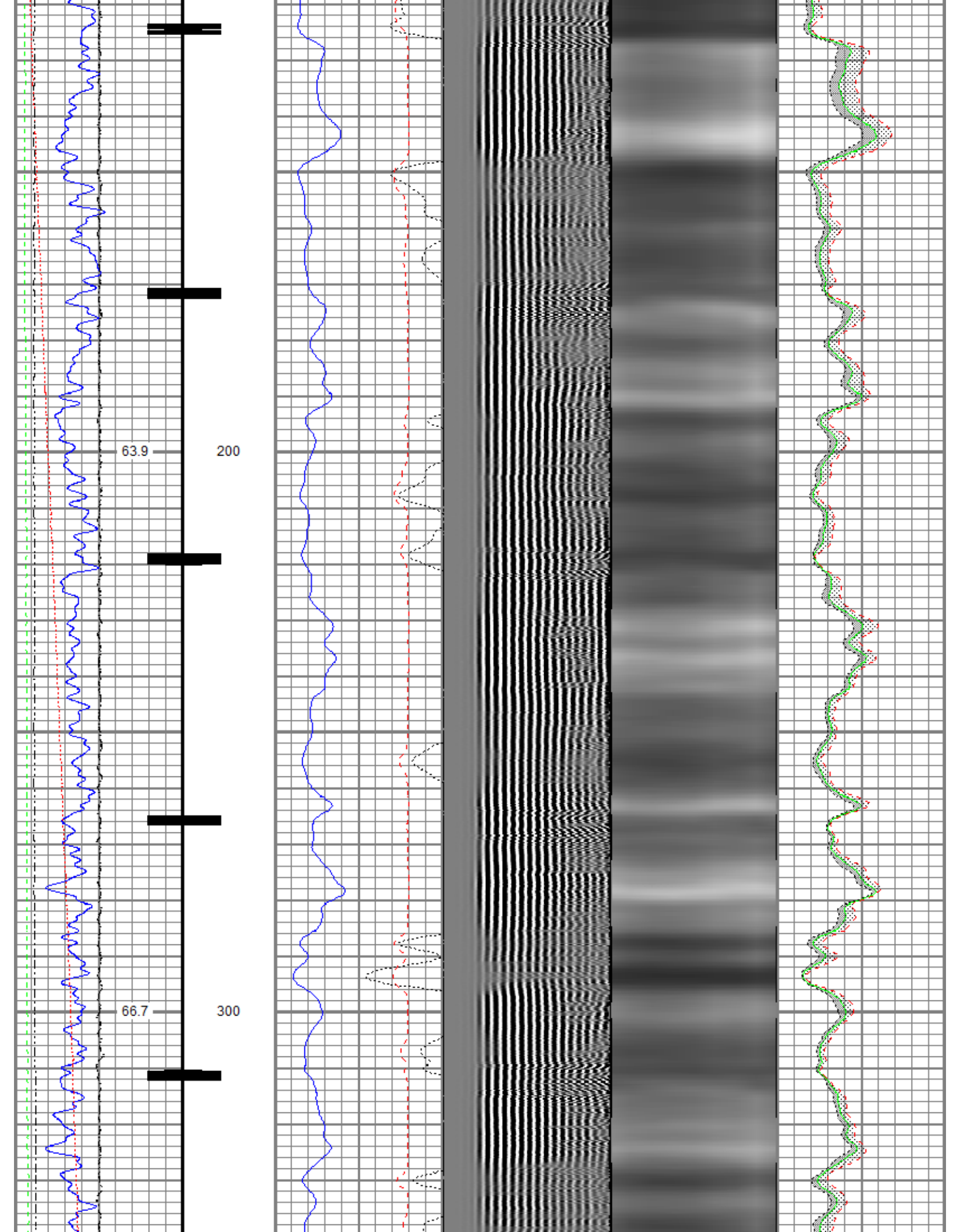
Main Pass

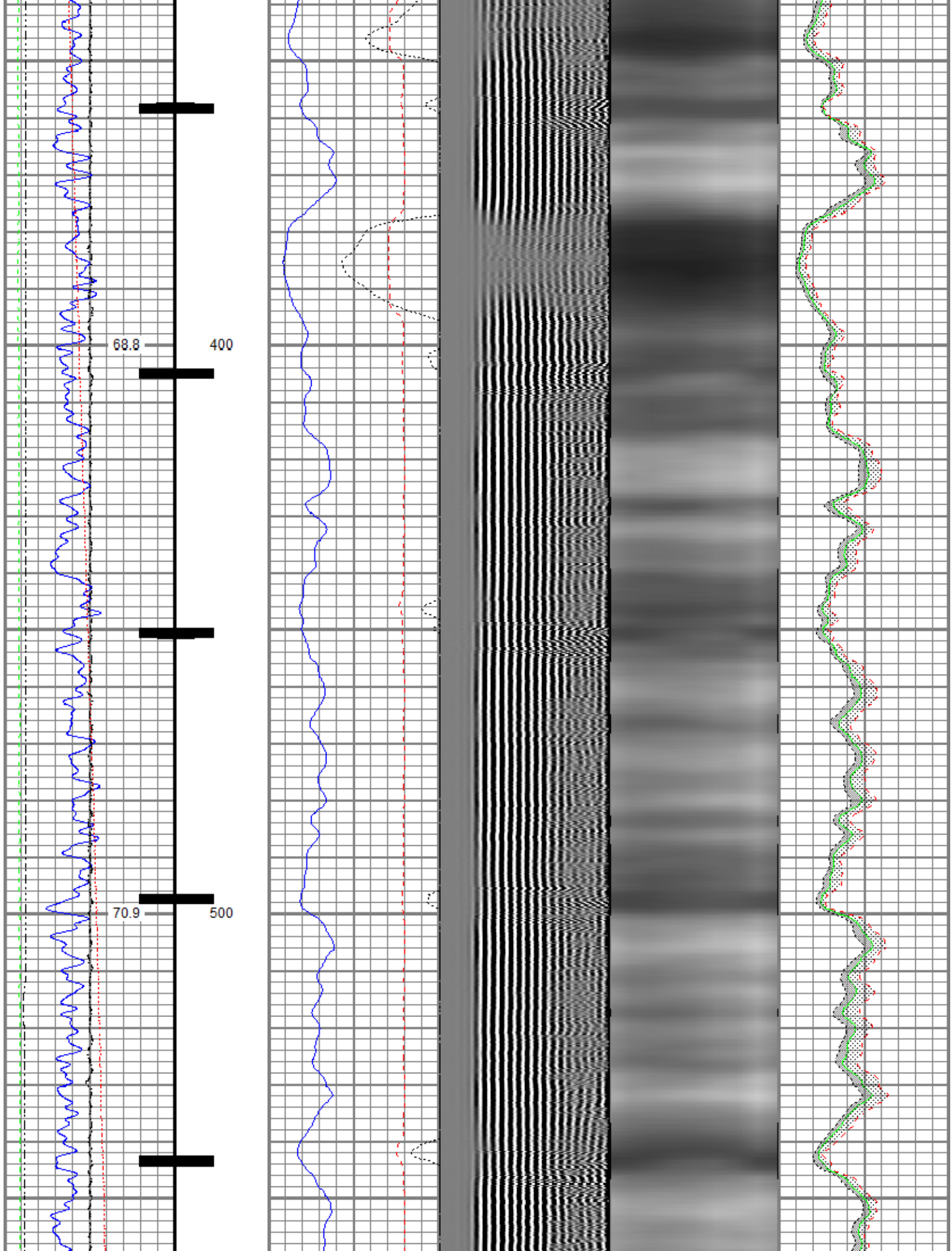


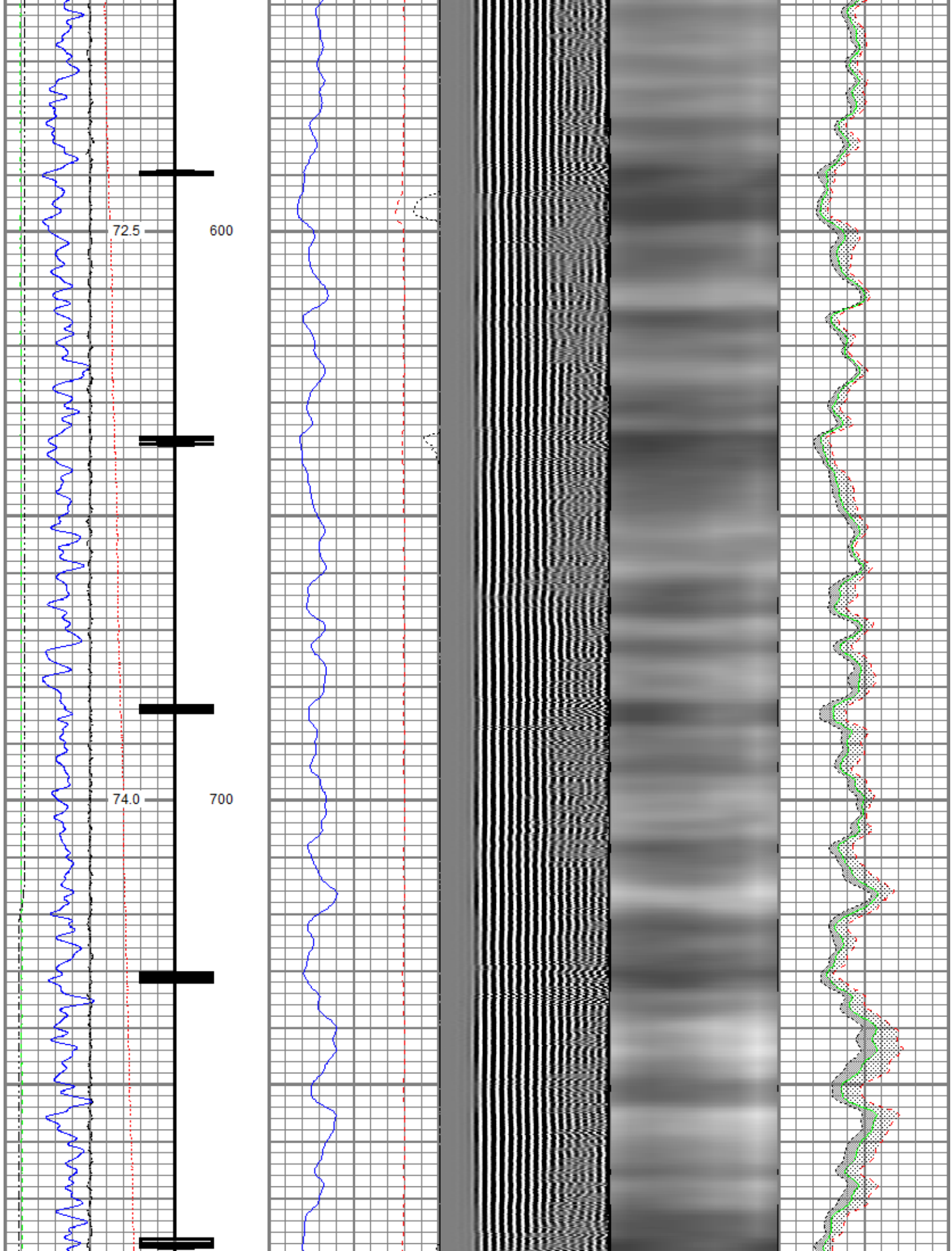
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 Dataset Pathname main.1
 Presentation Format ros_radri
 Dataset Creation Sun Mar 18 12:31:37 2018
 Charted by Depth in Feet scaled 1:240

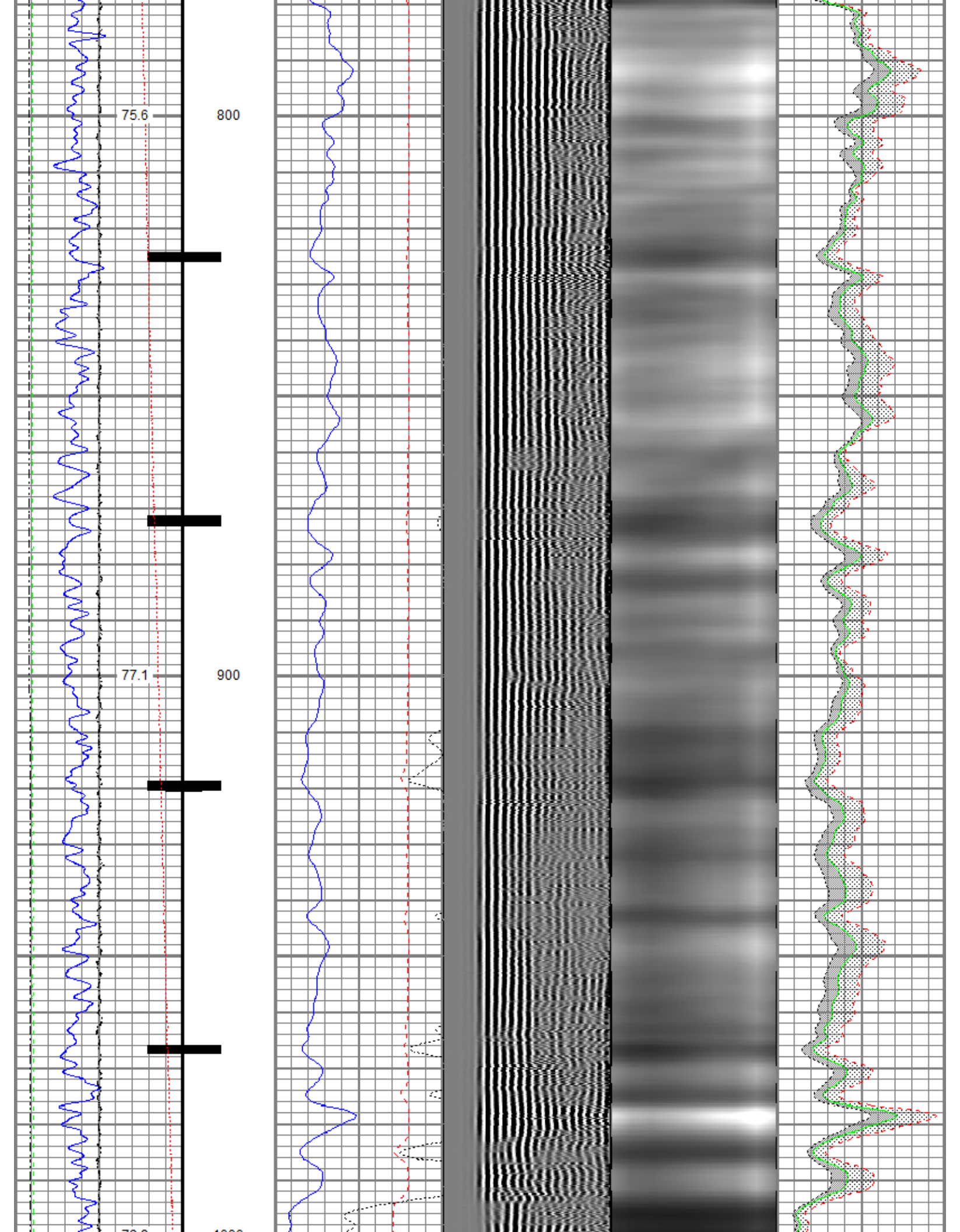
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min) 150				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

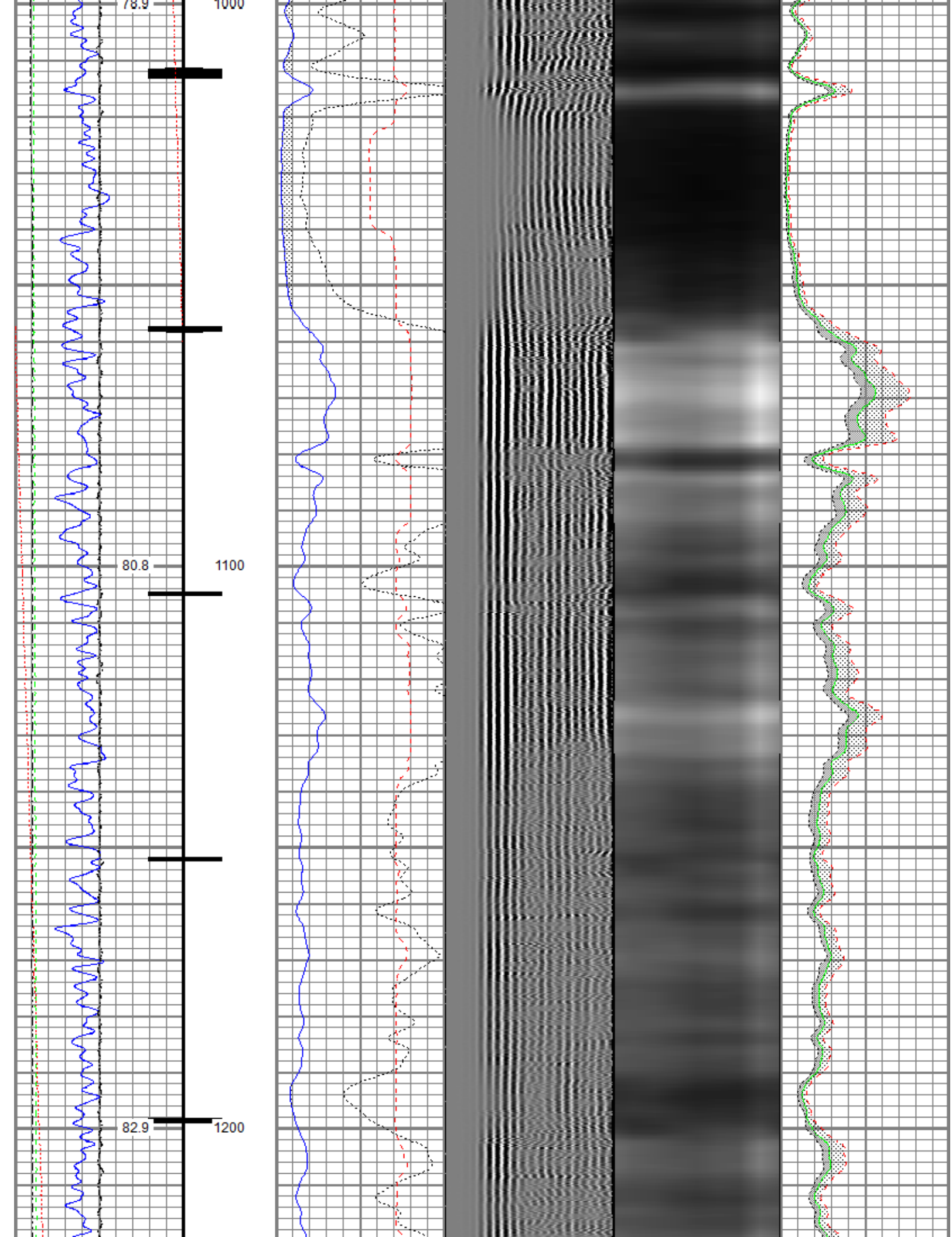


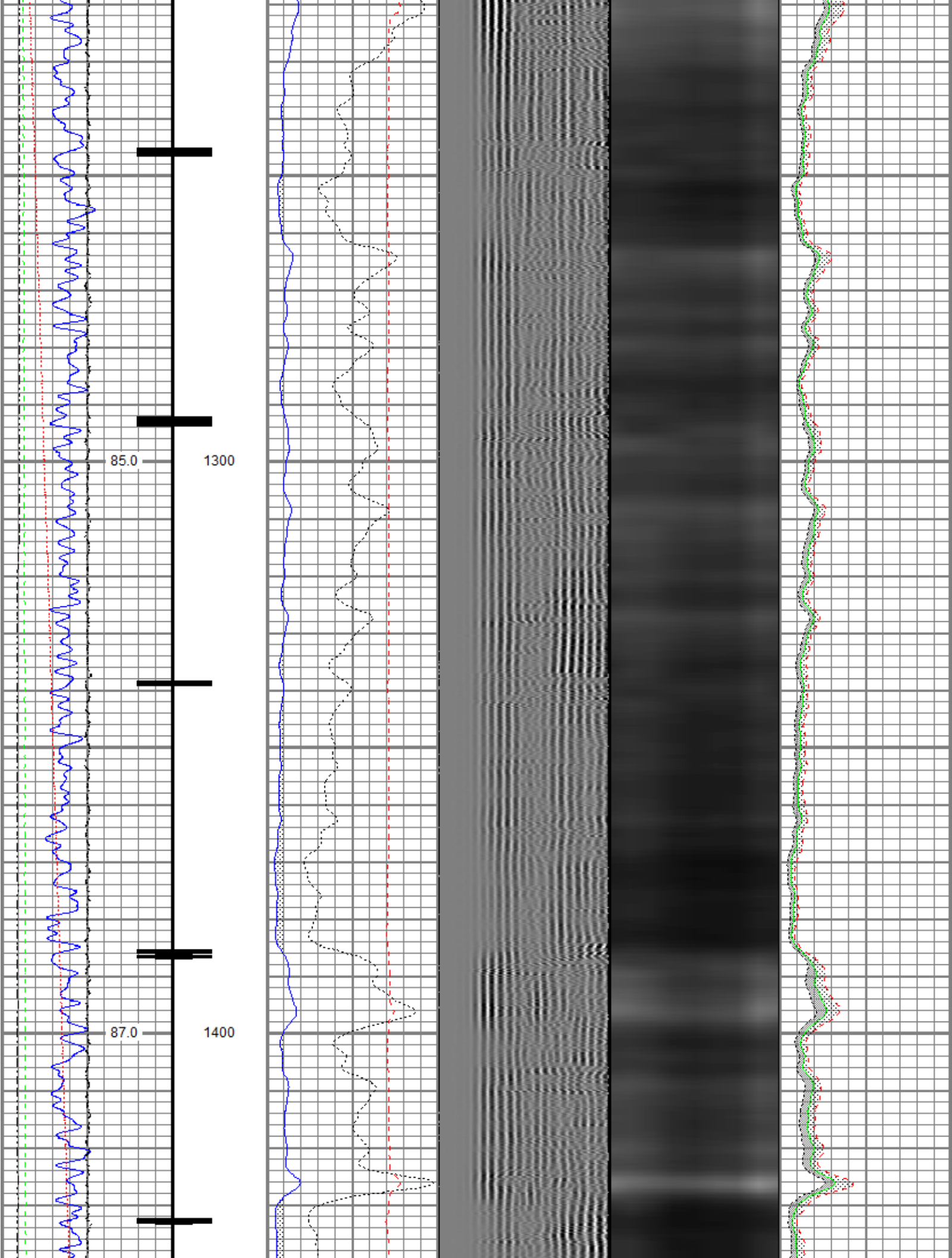


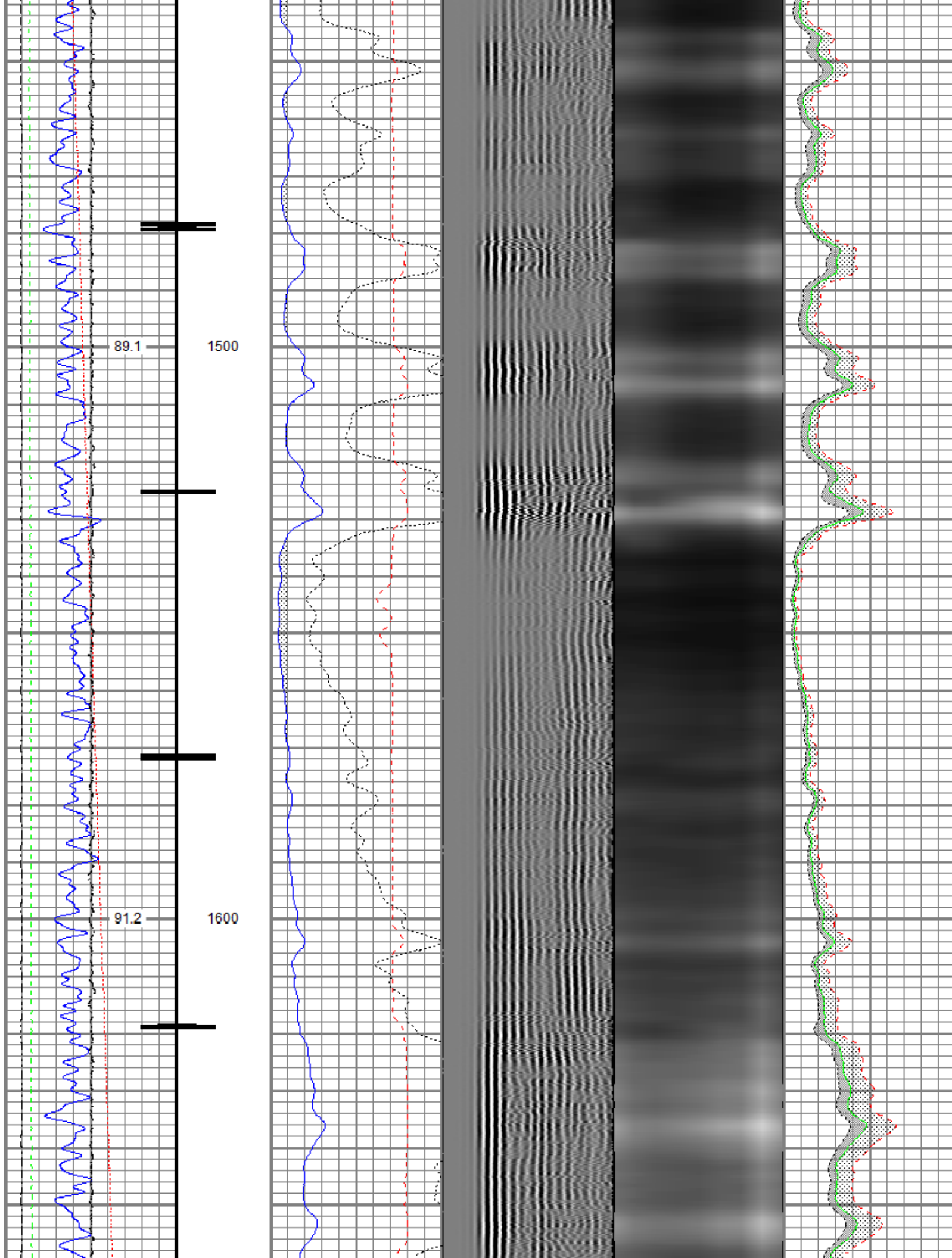


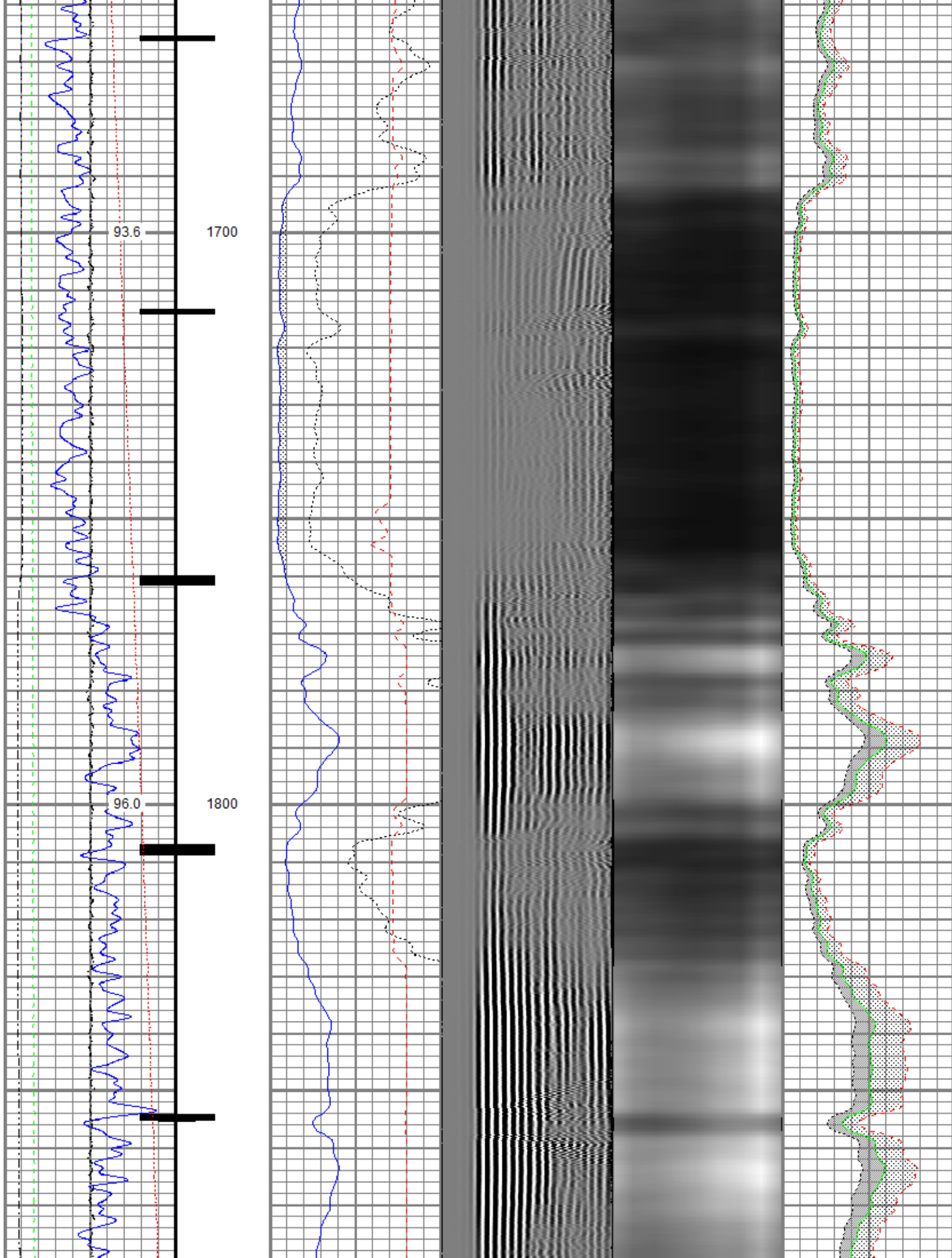


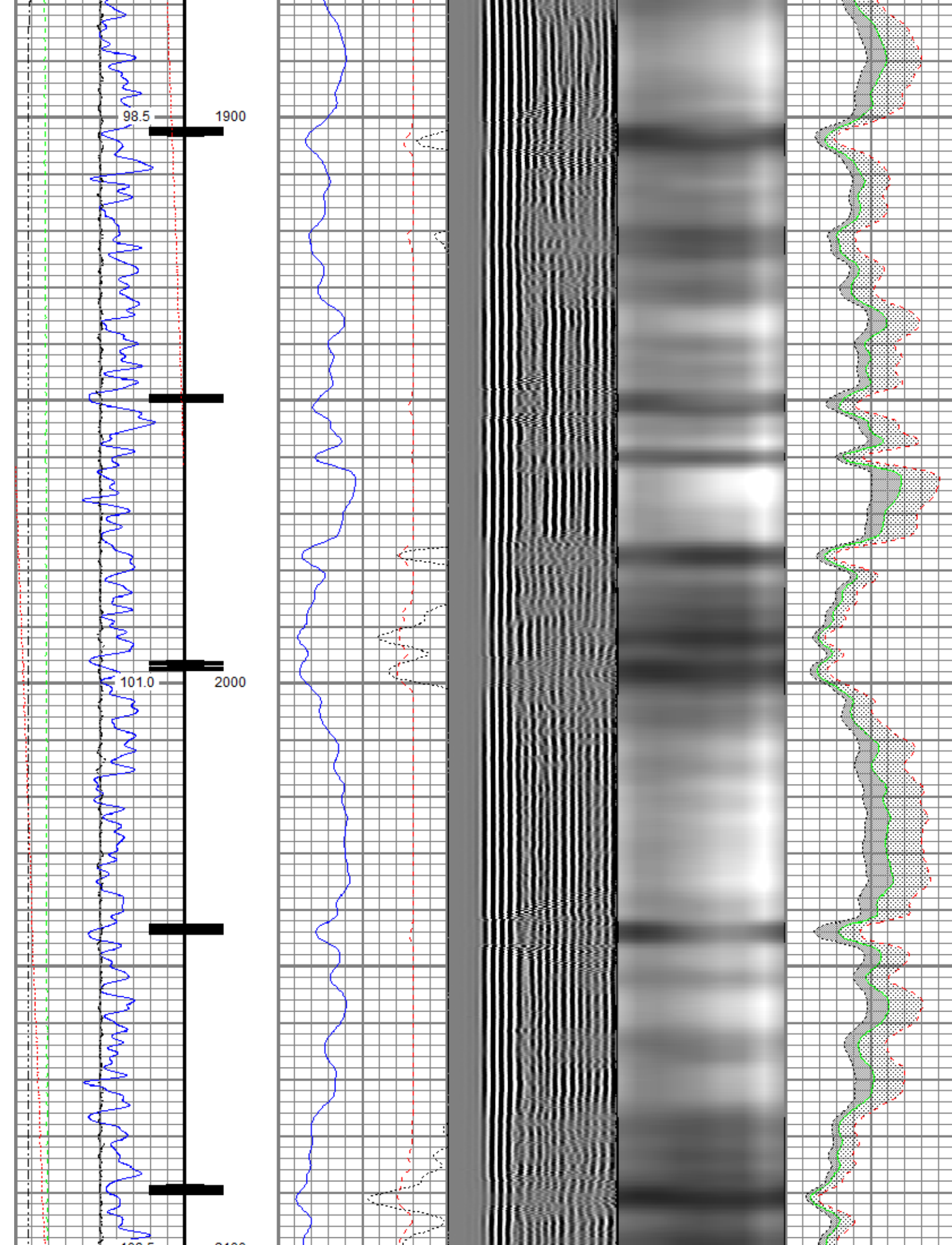


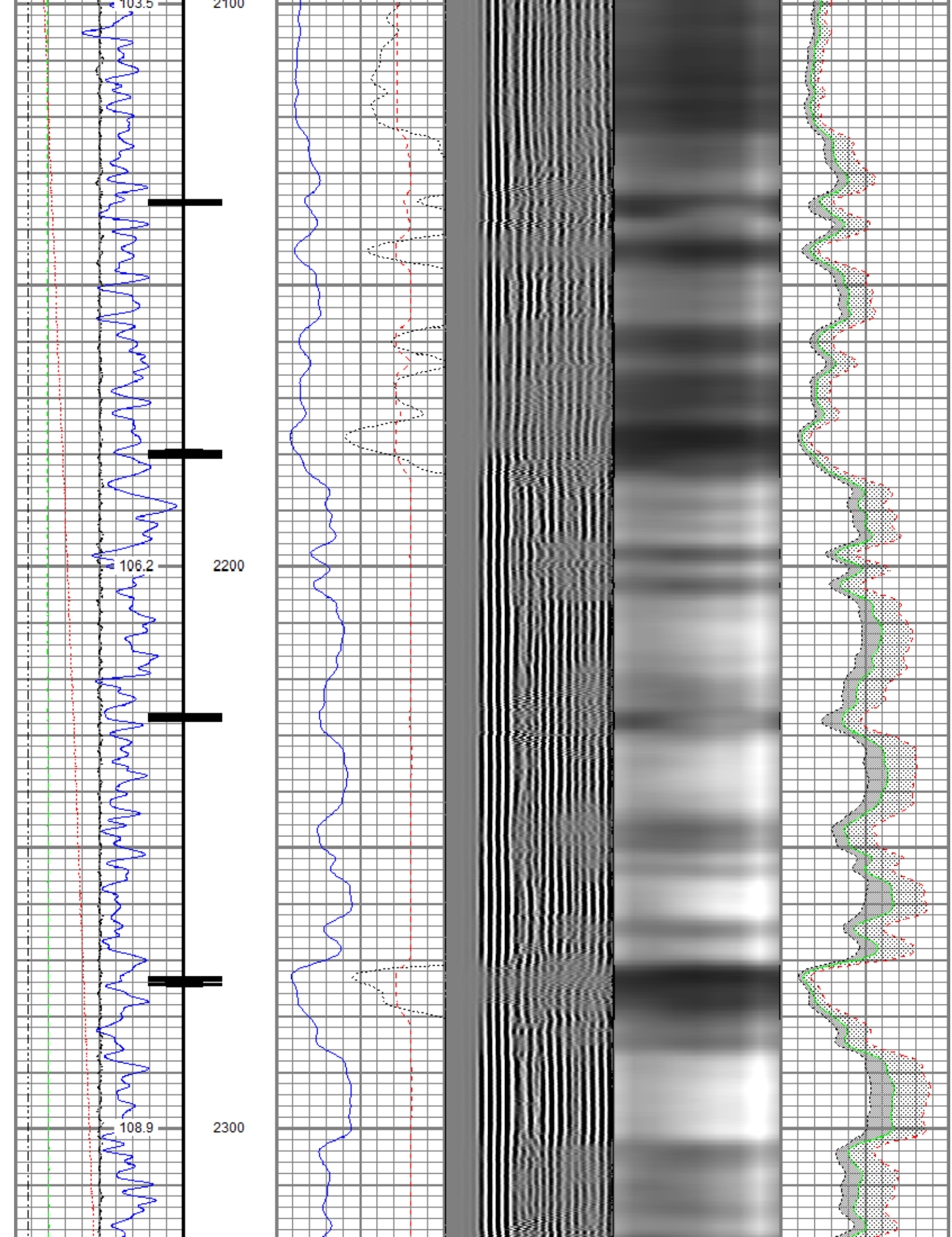


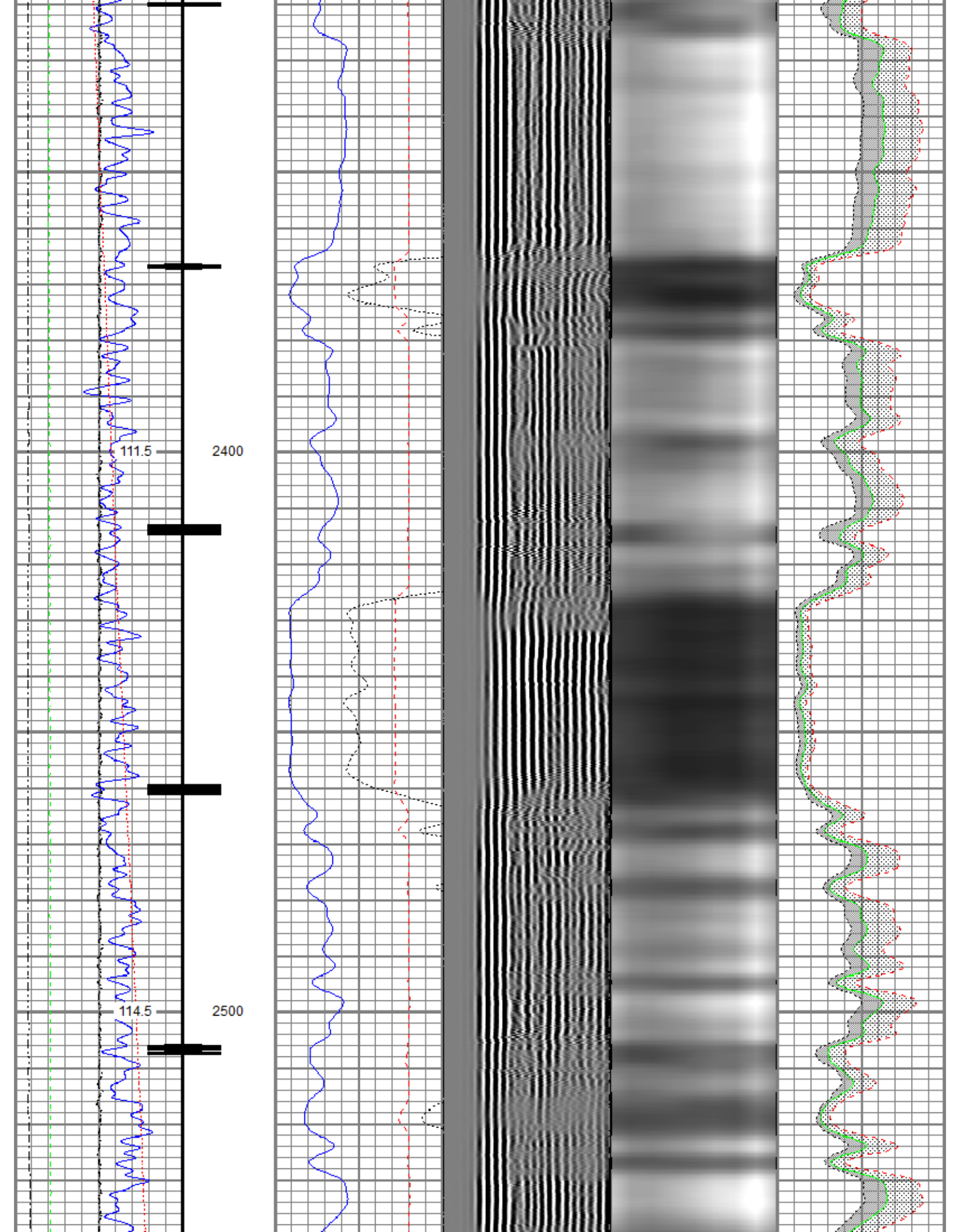


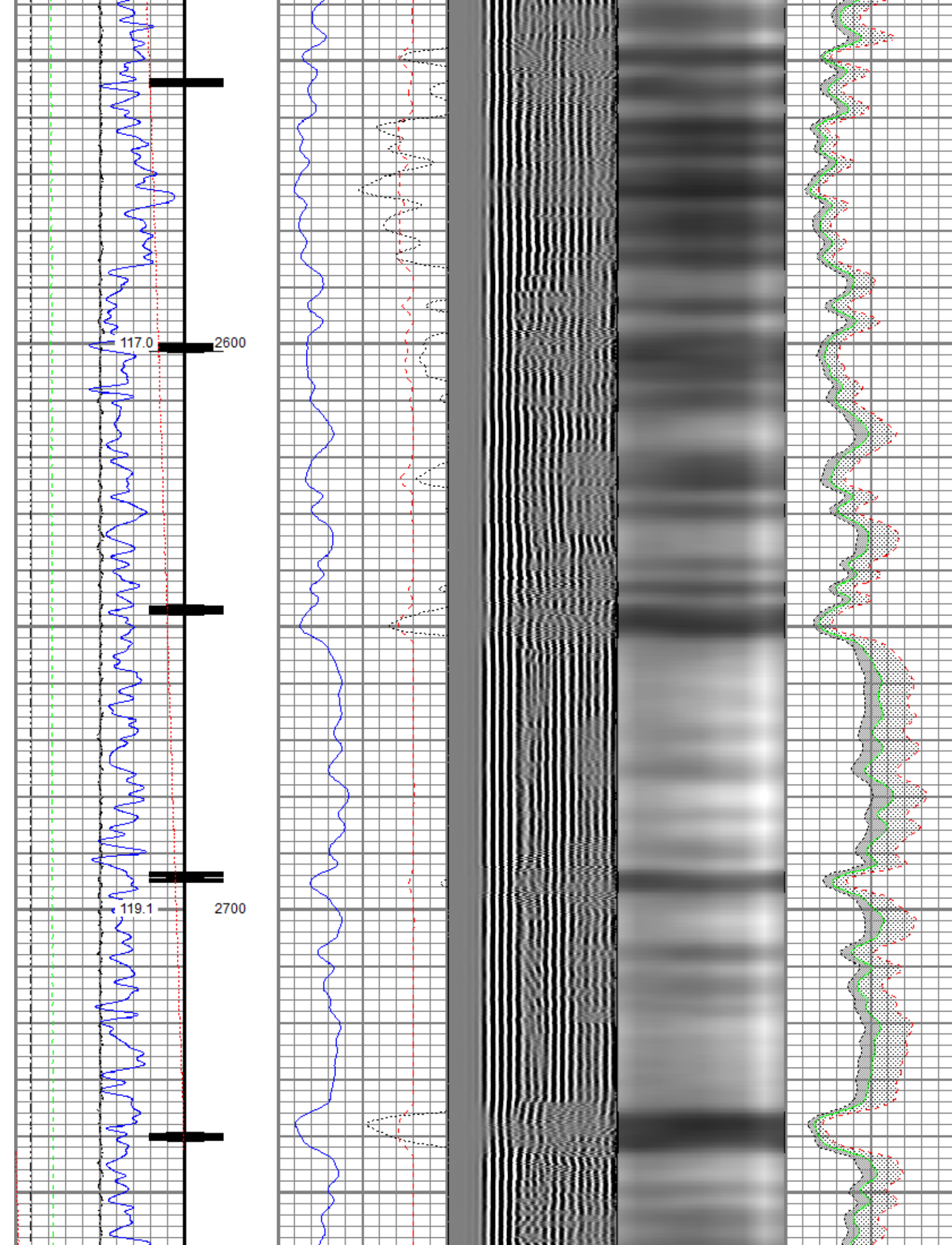


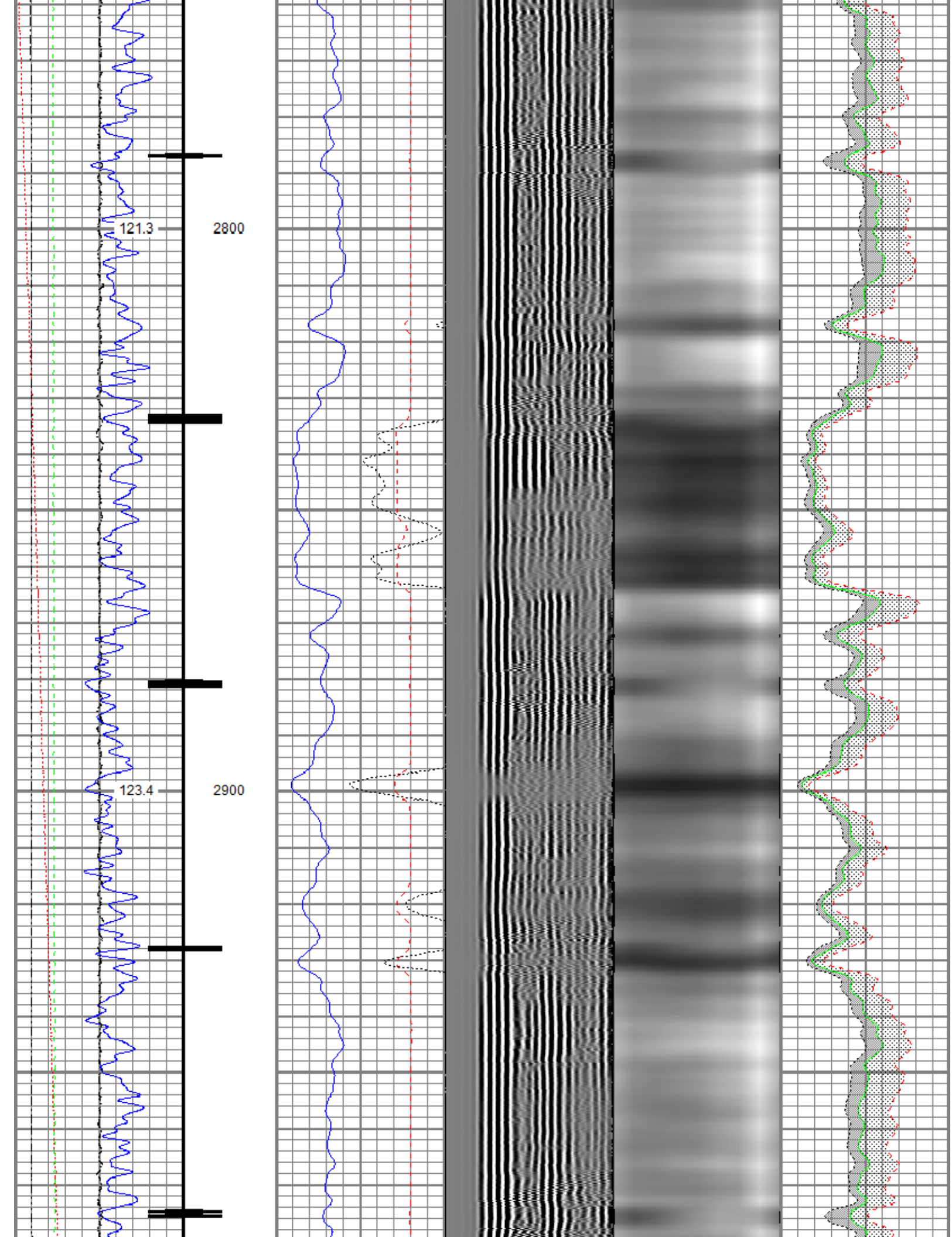


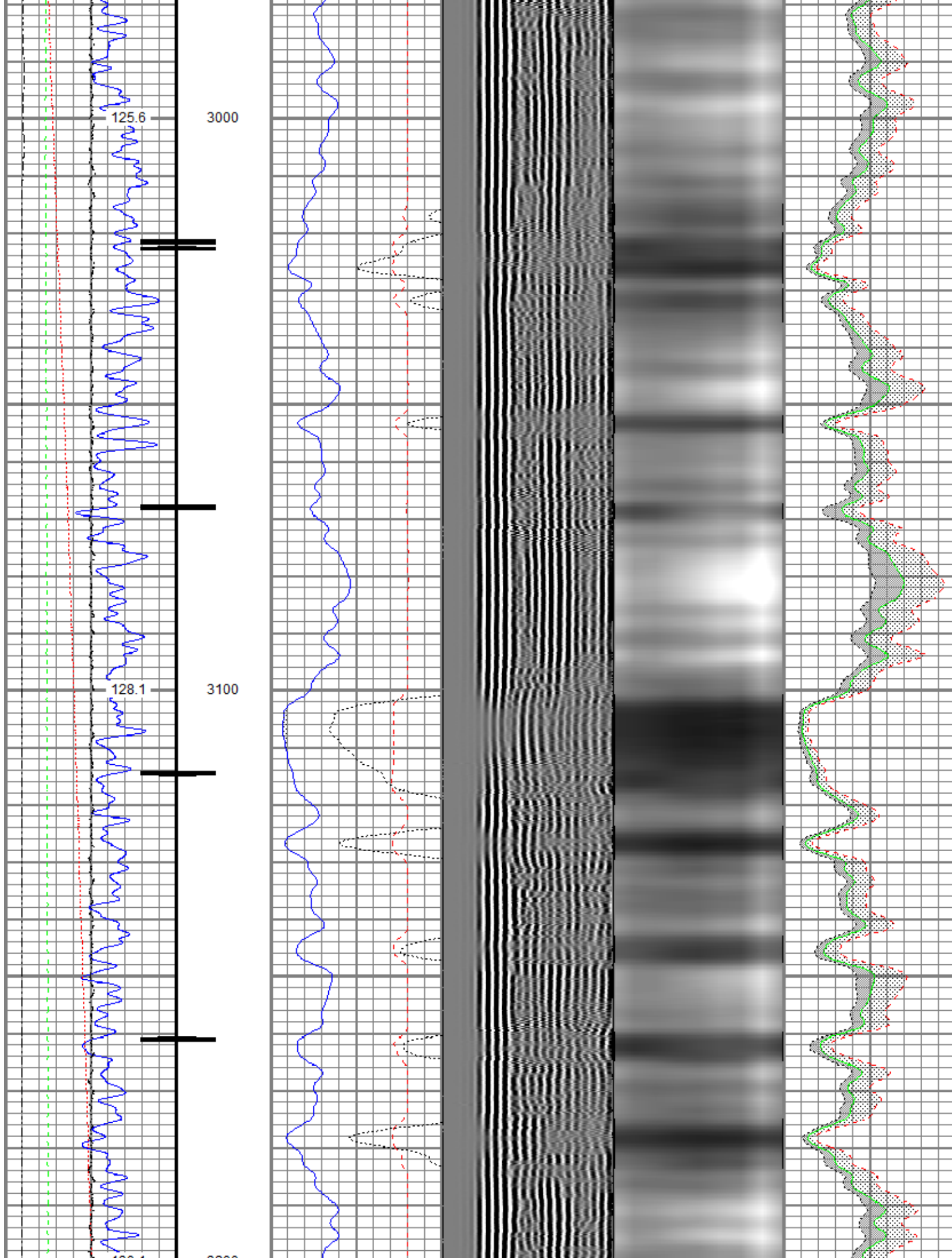


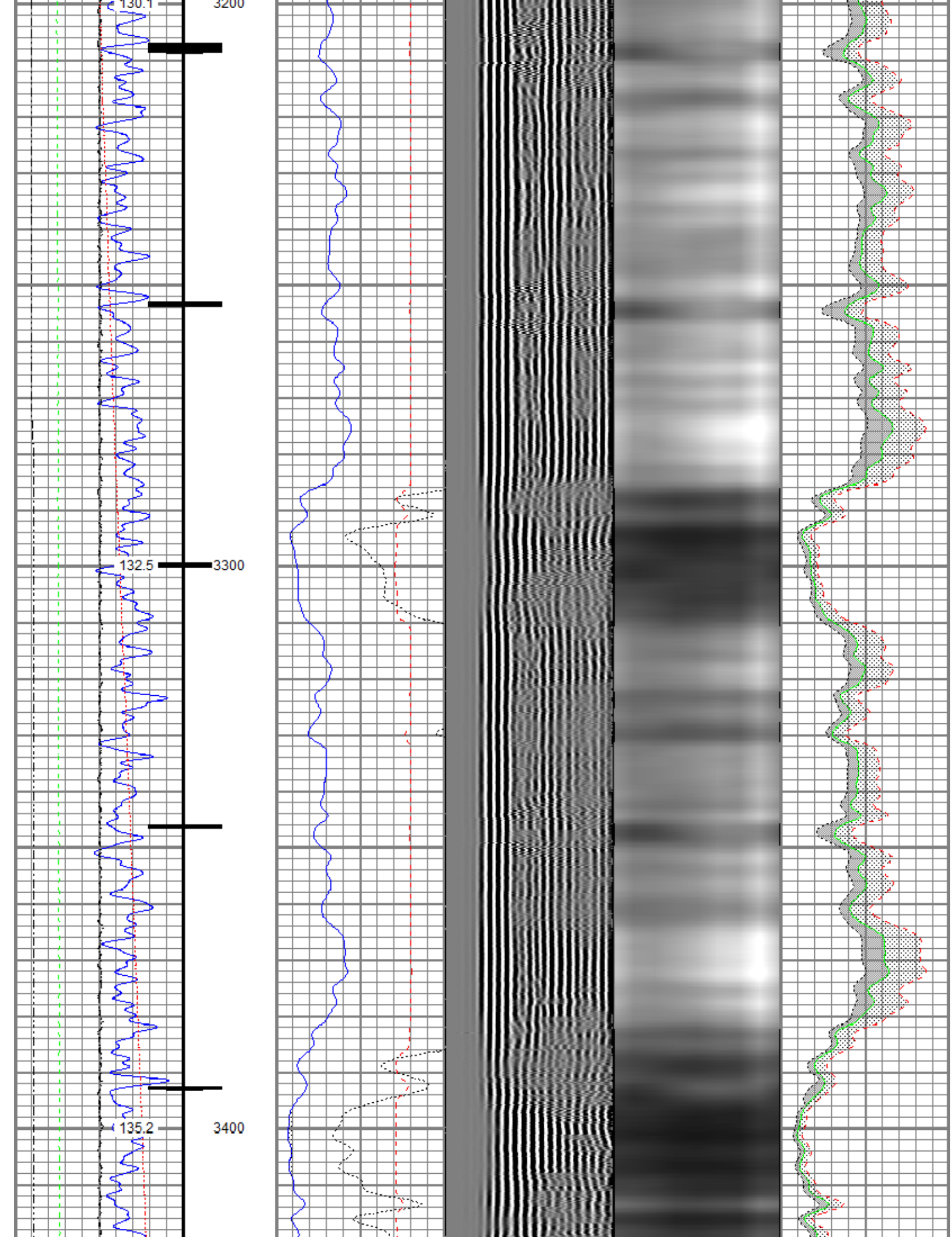


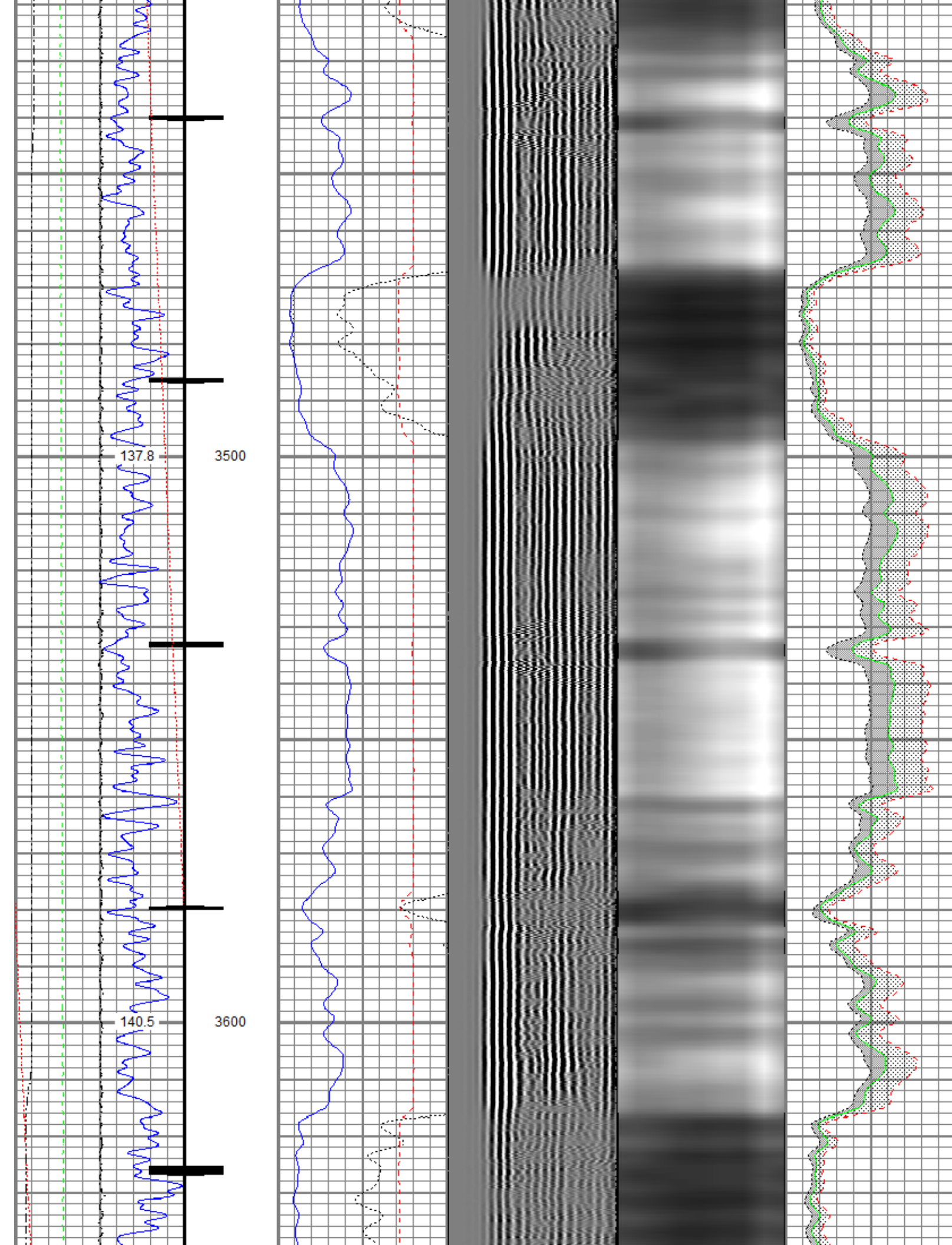


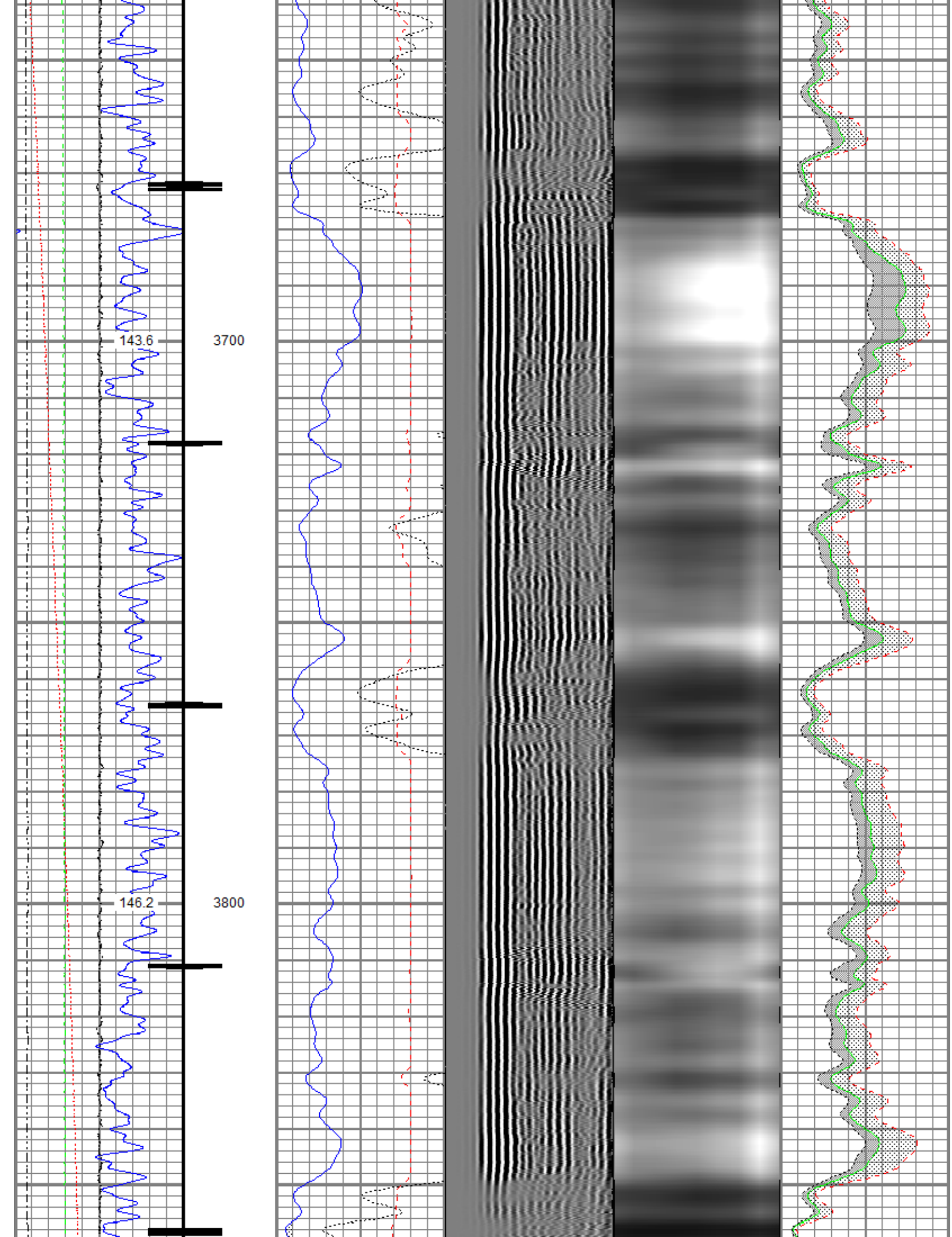


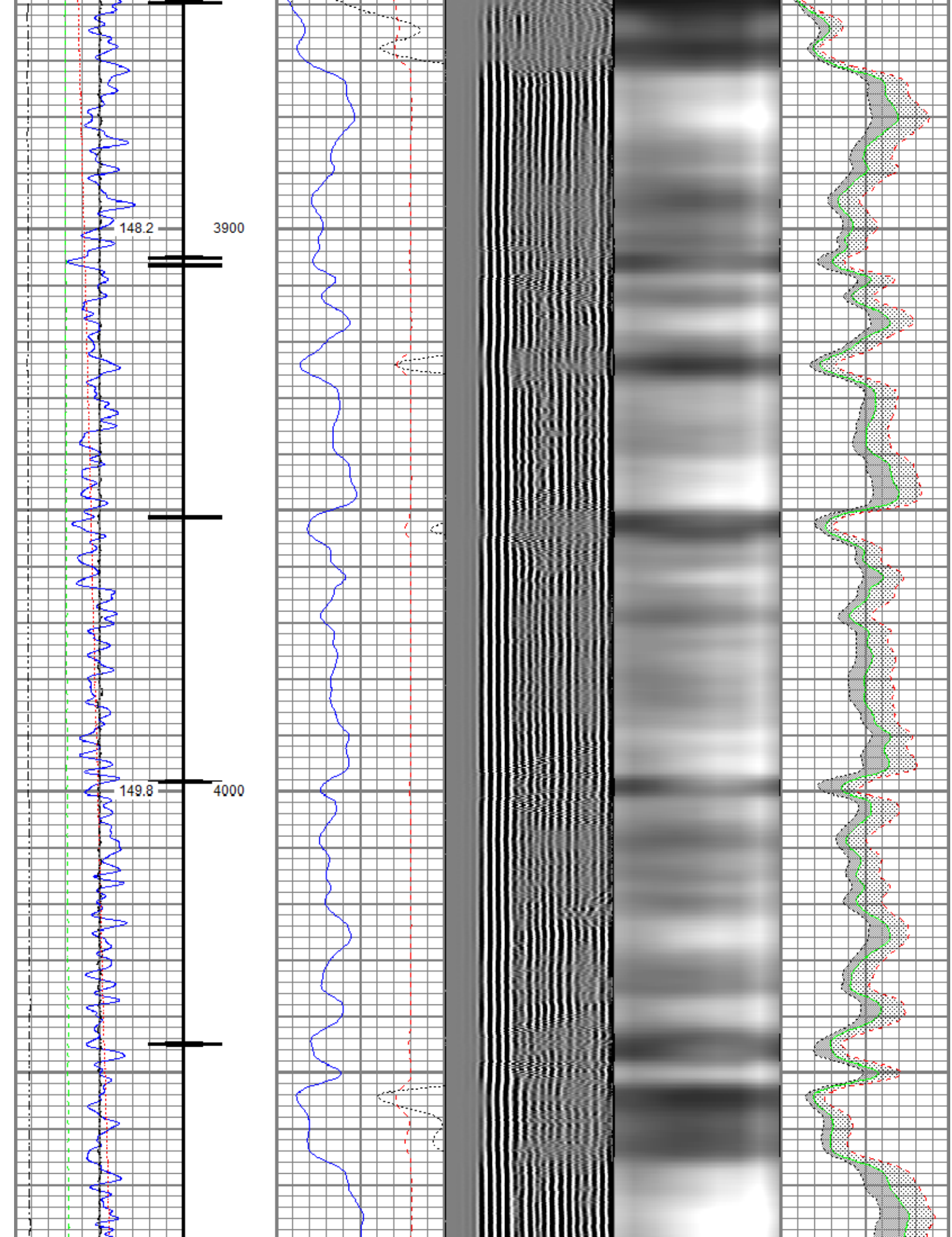


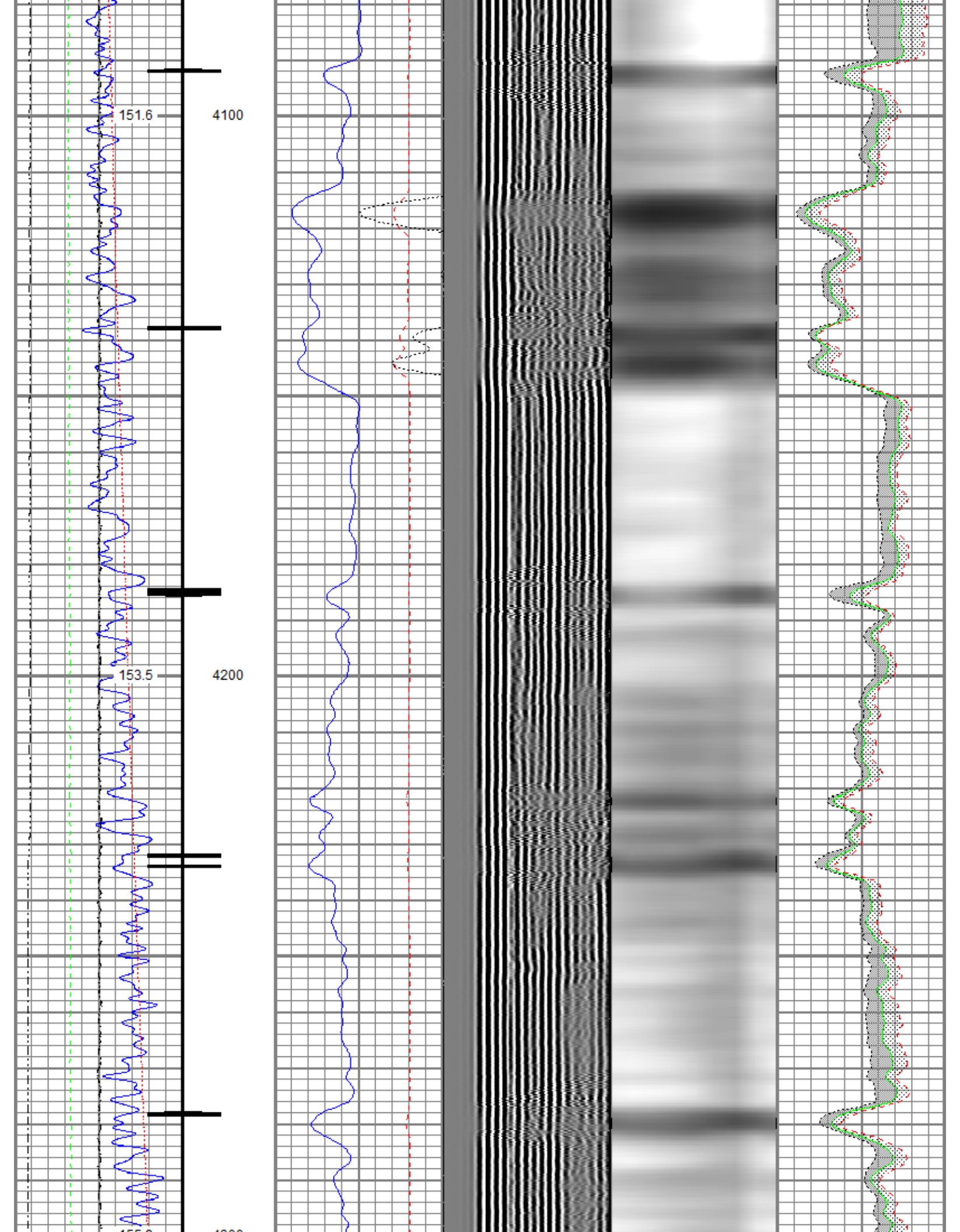


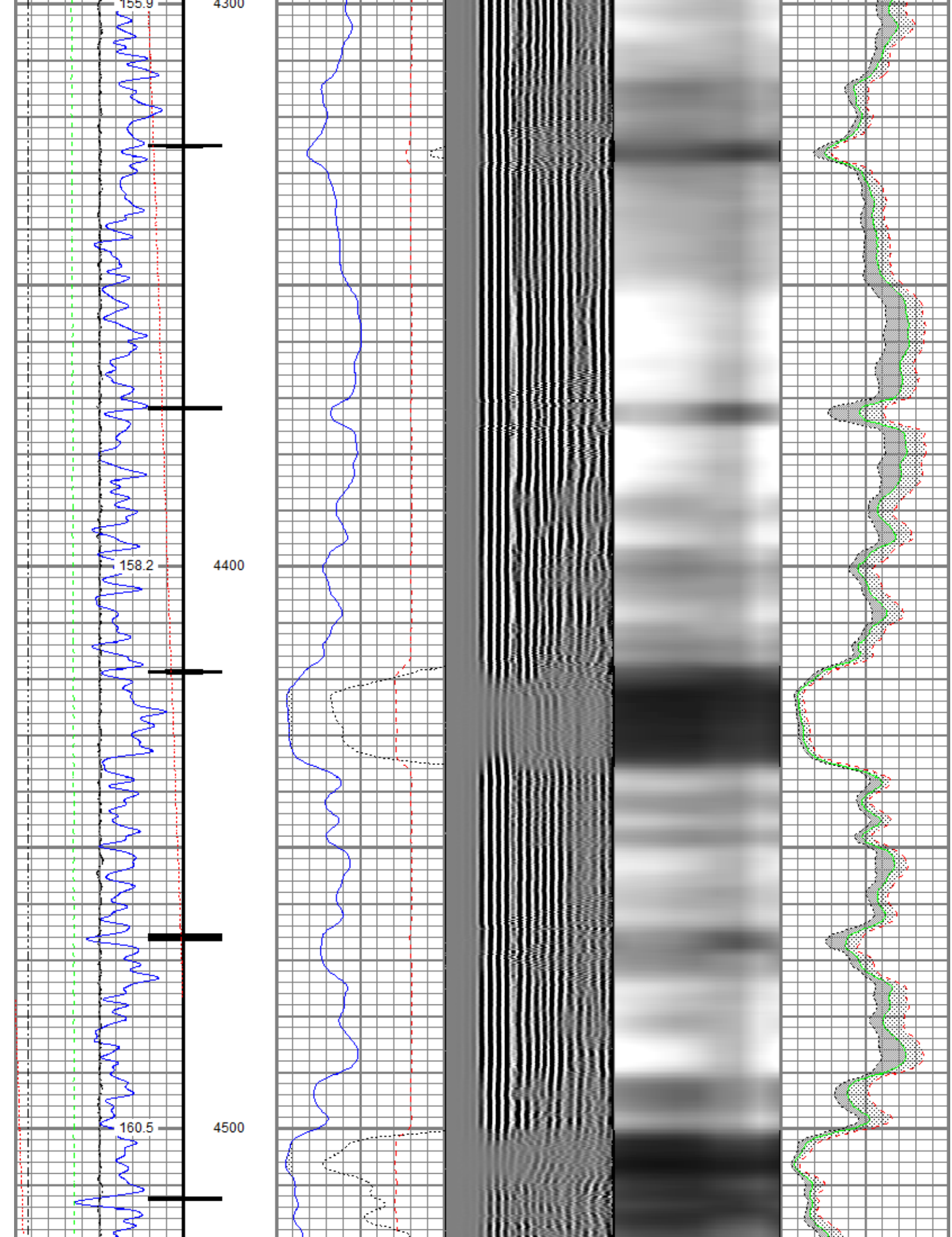


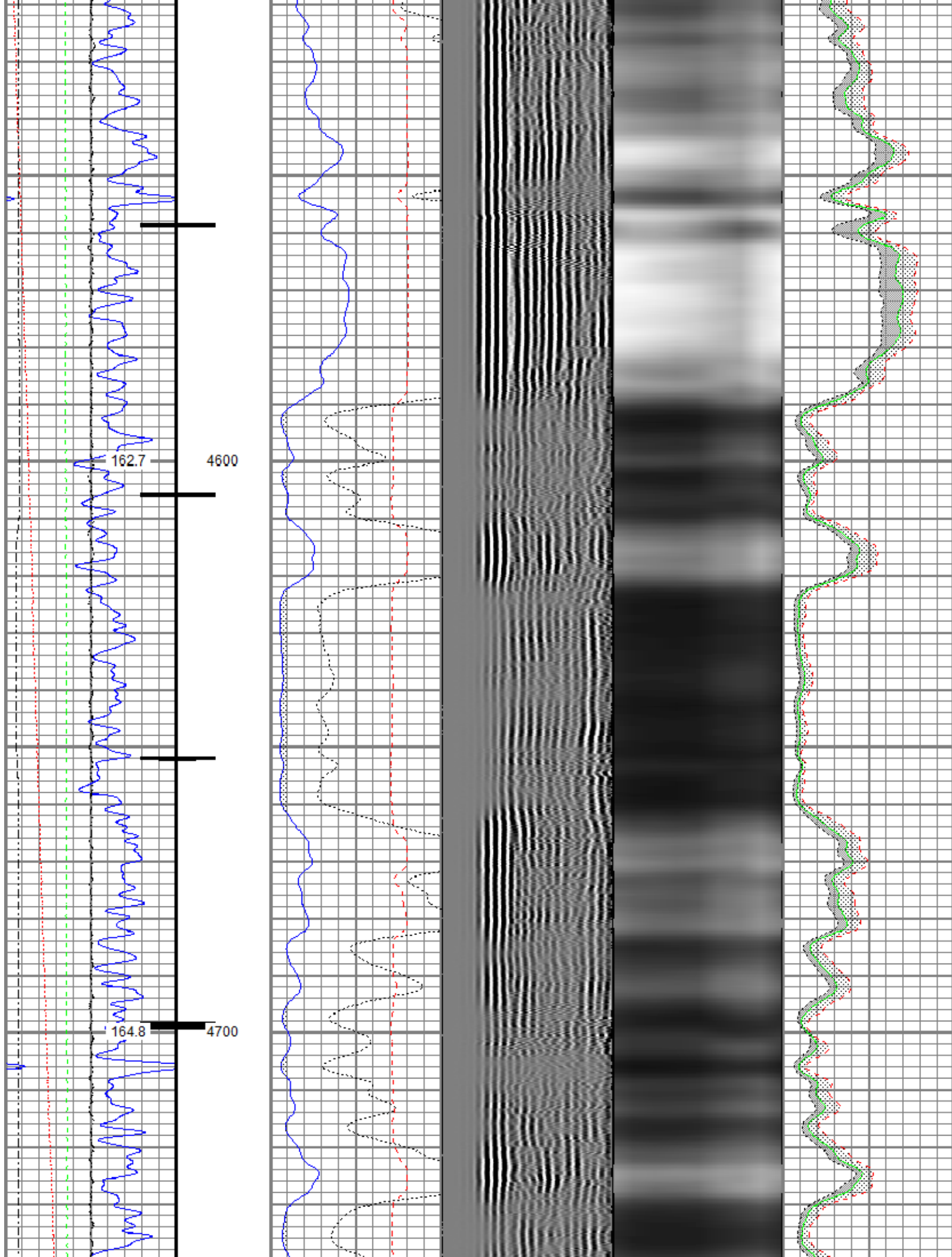


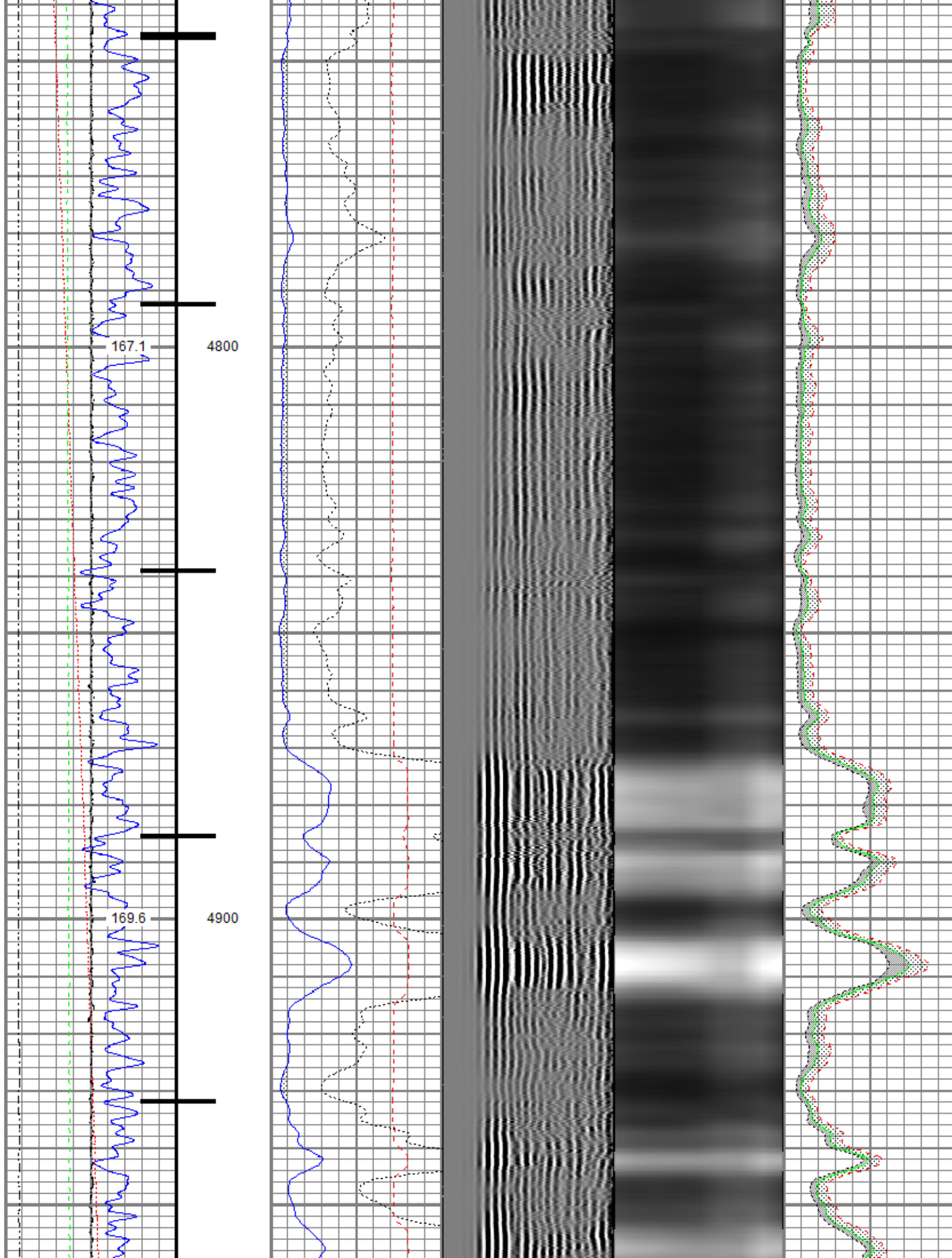


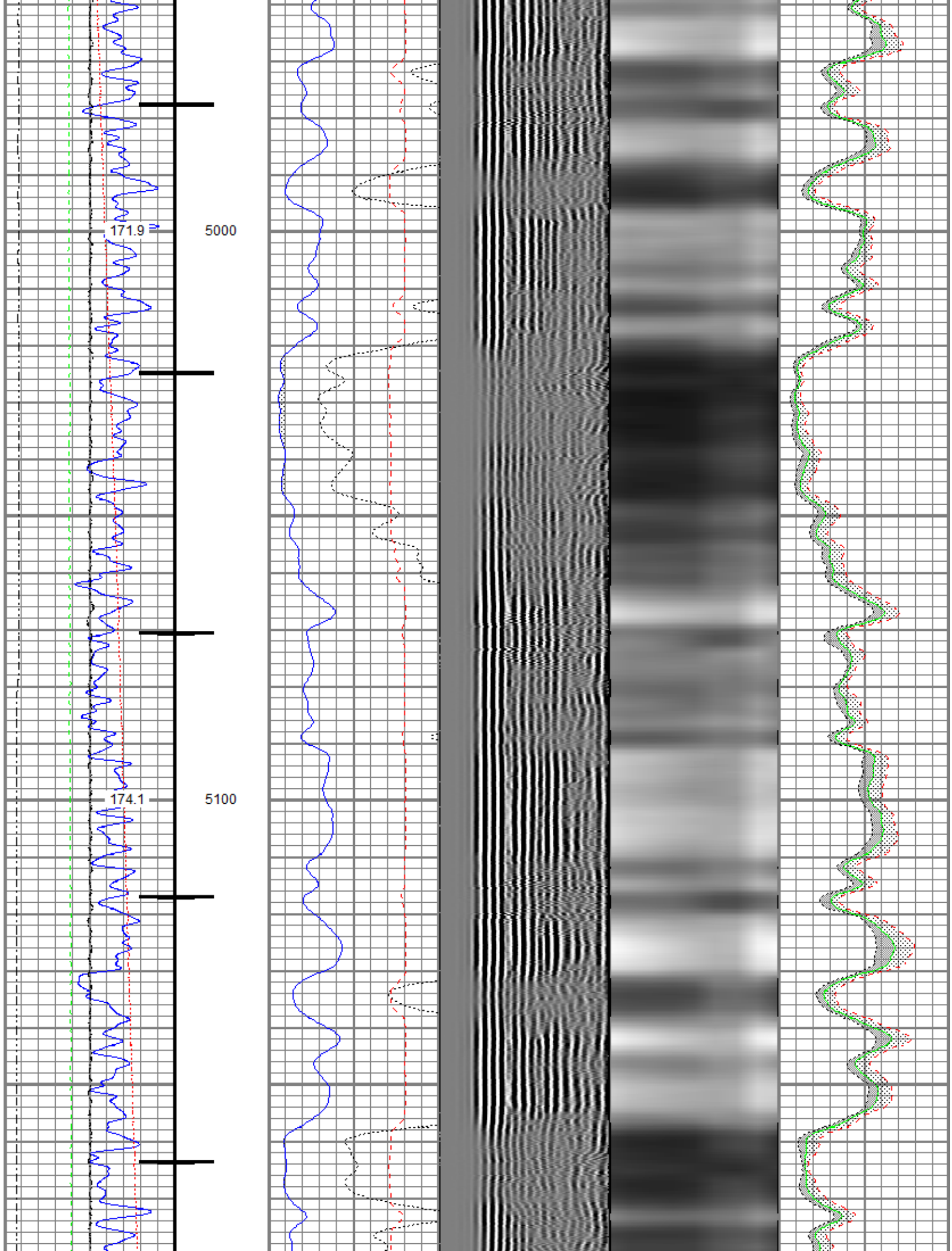


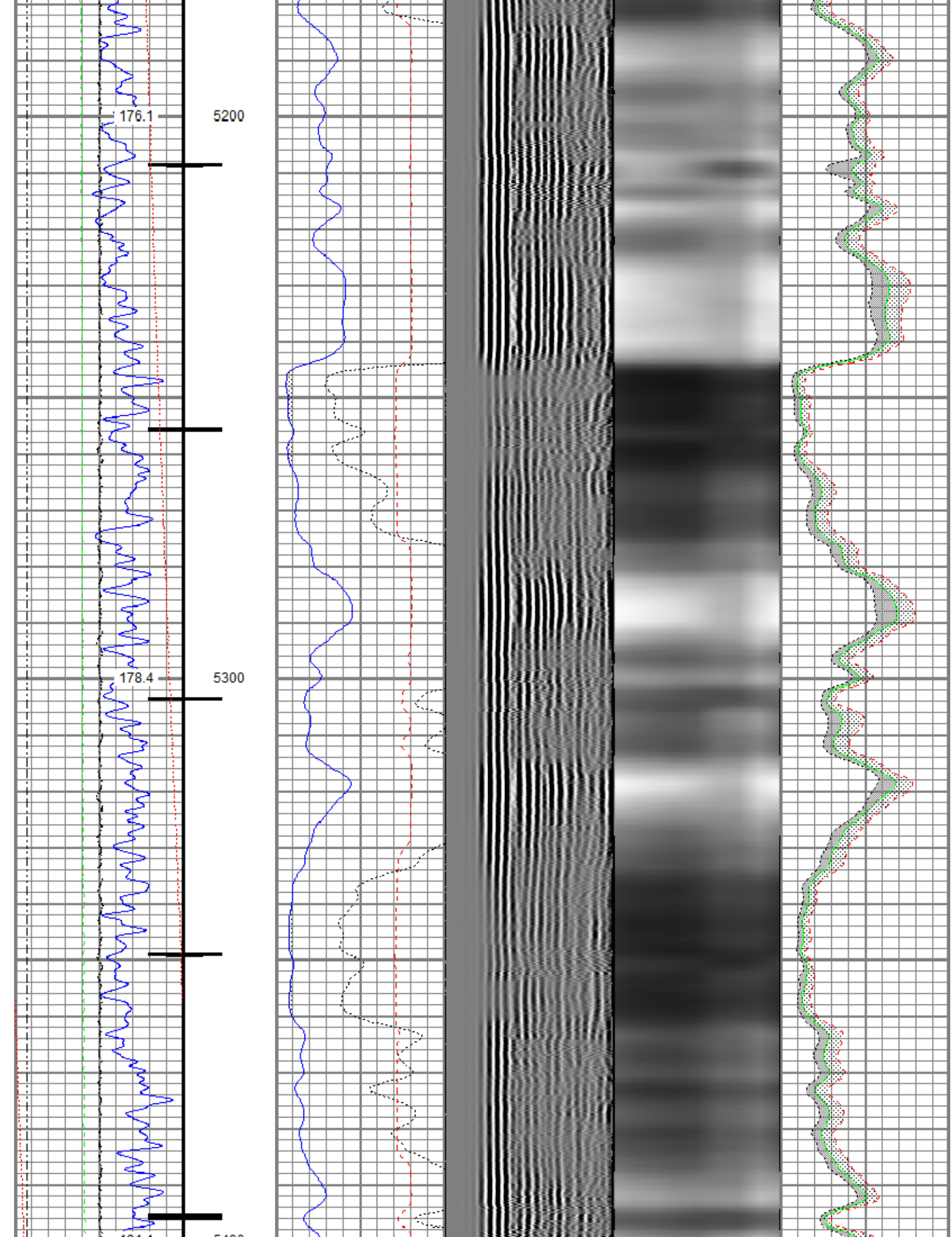


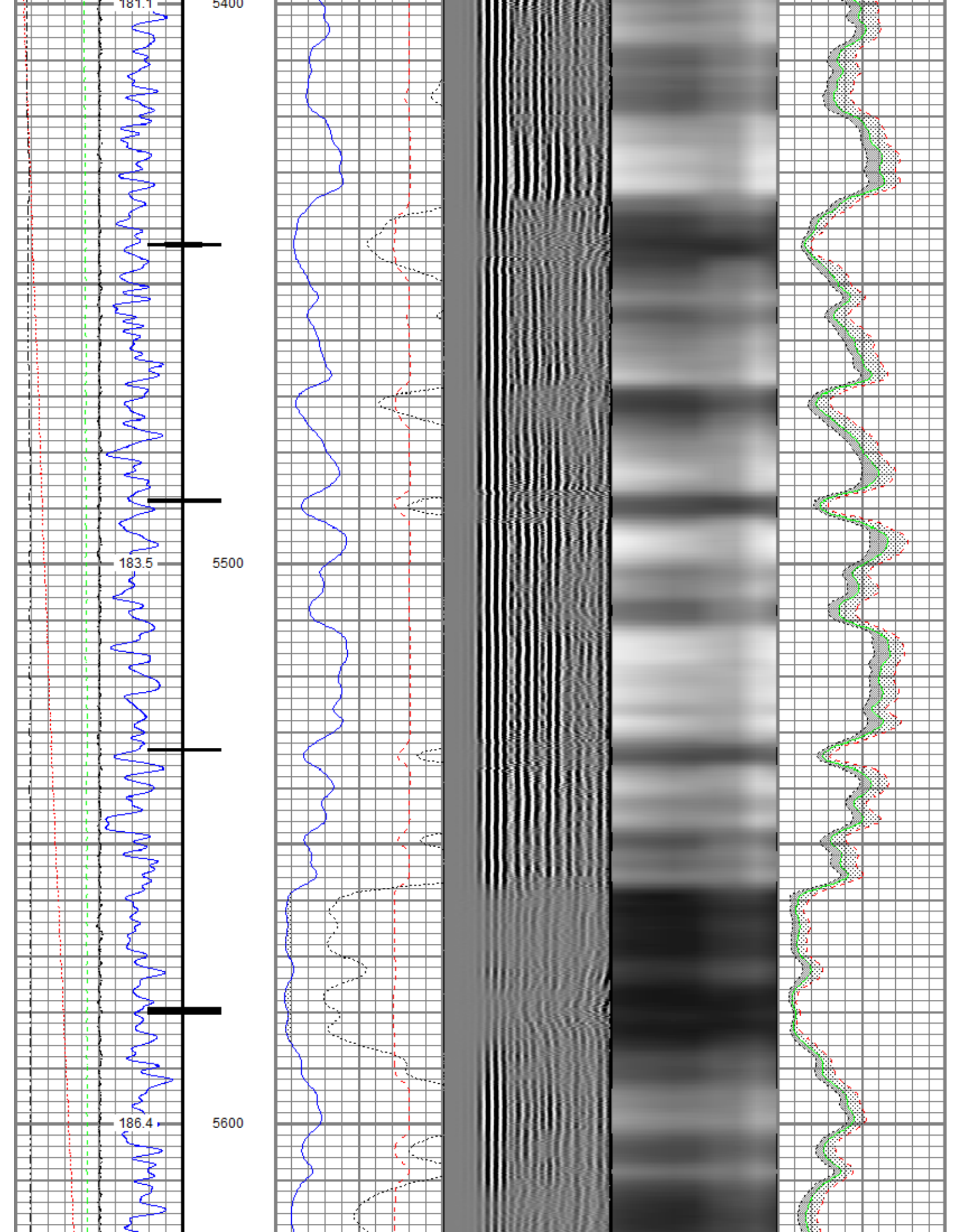


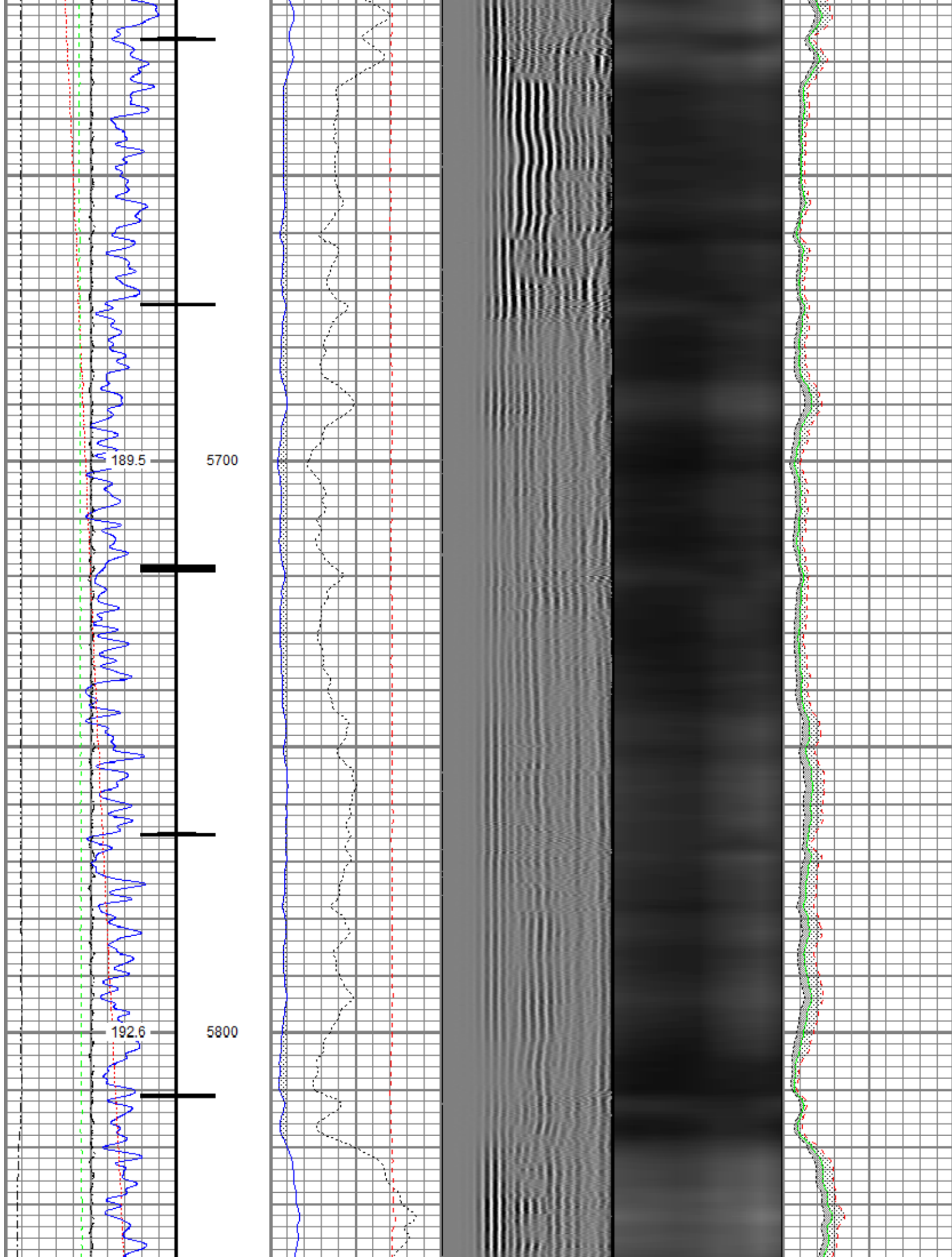


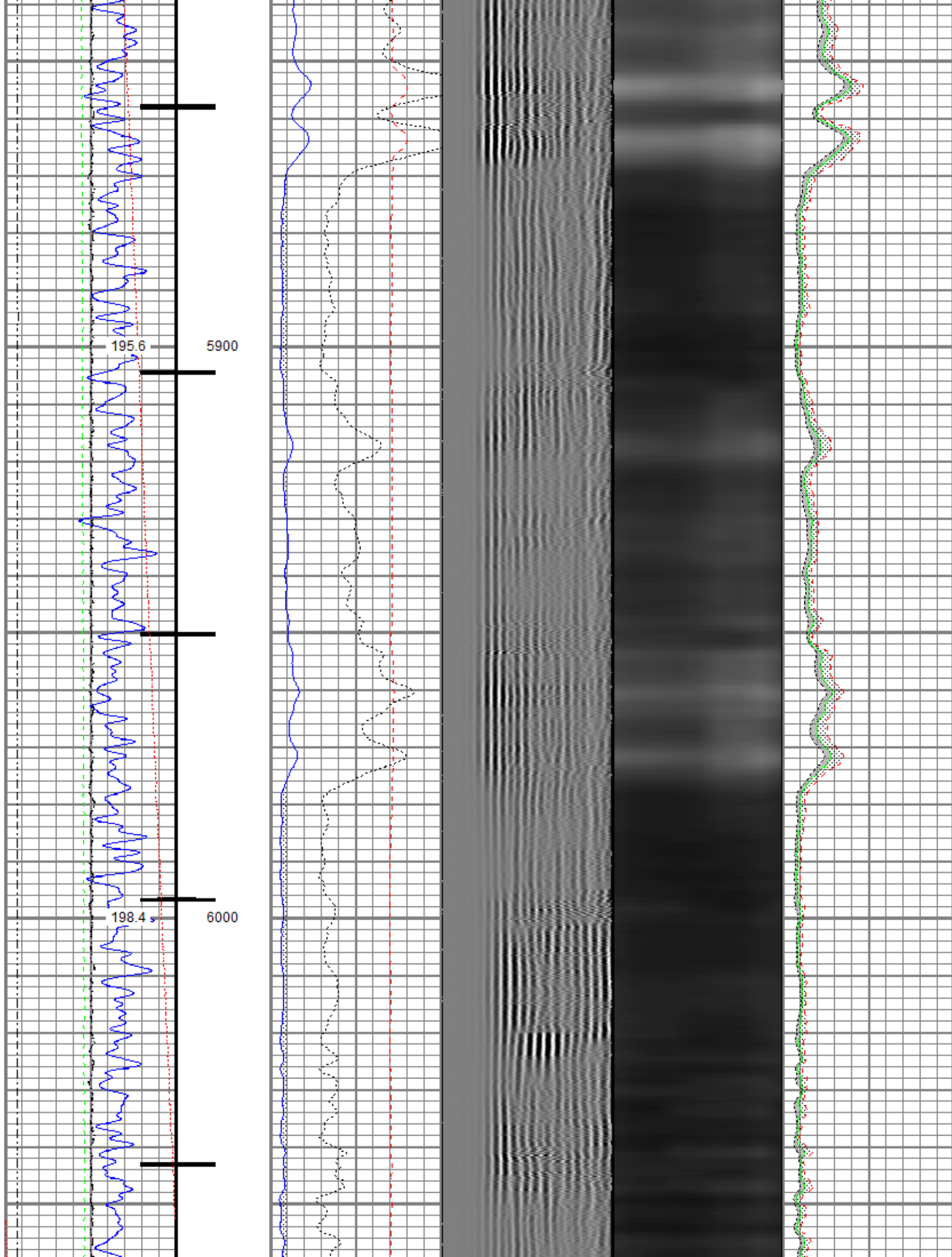


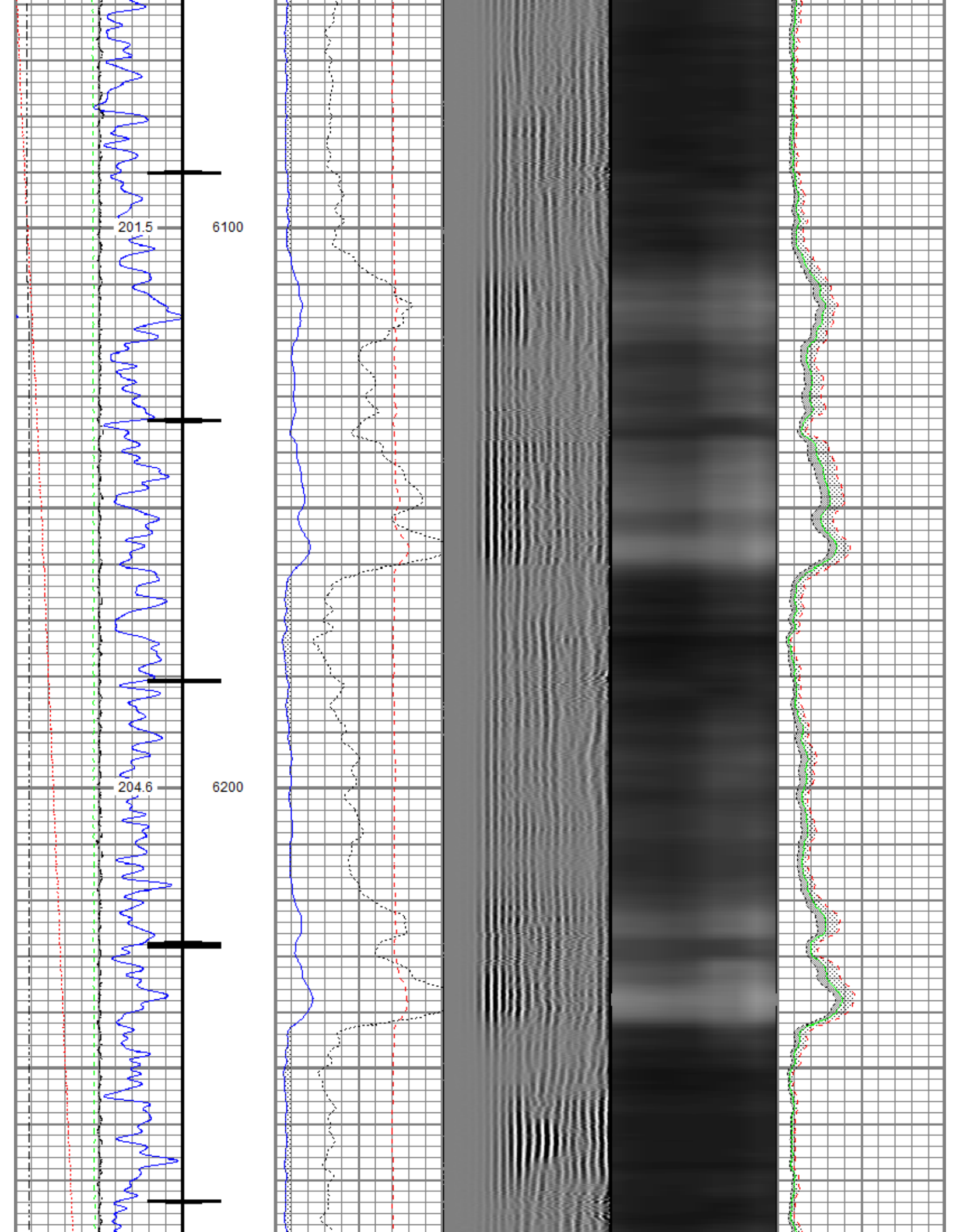


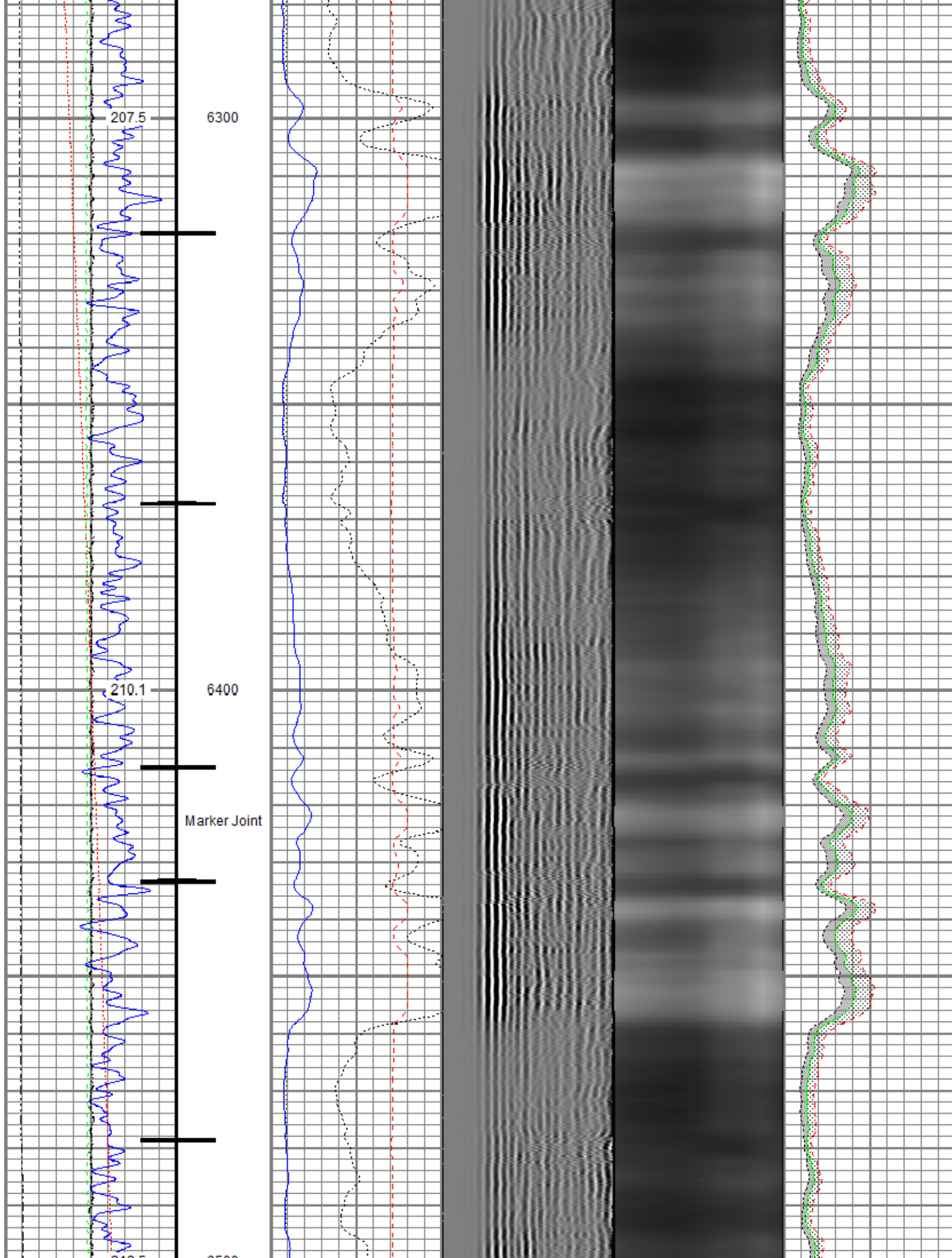


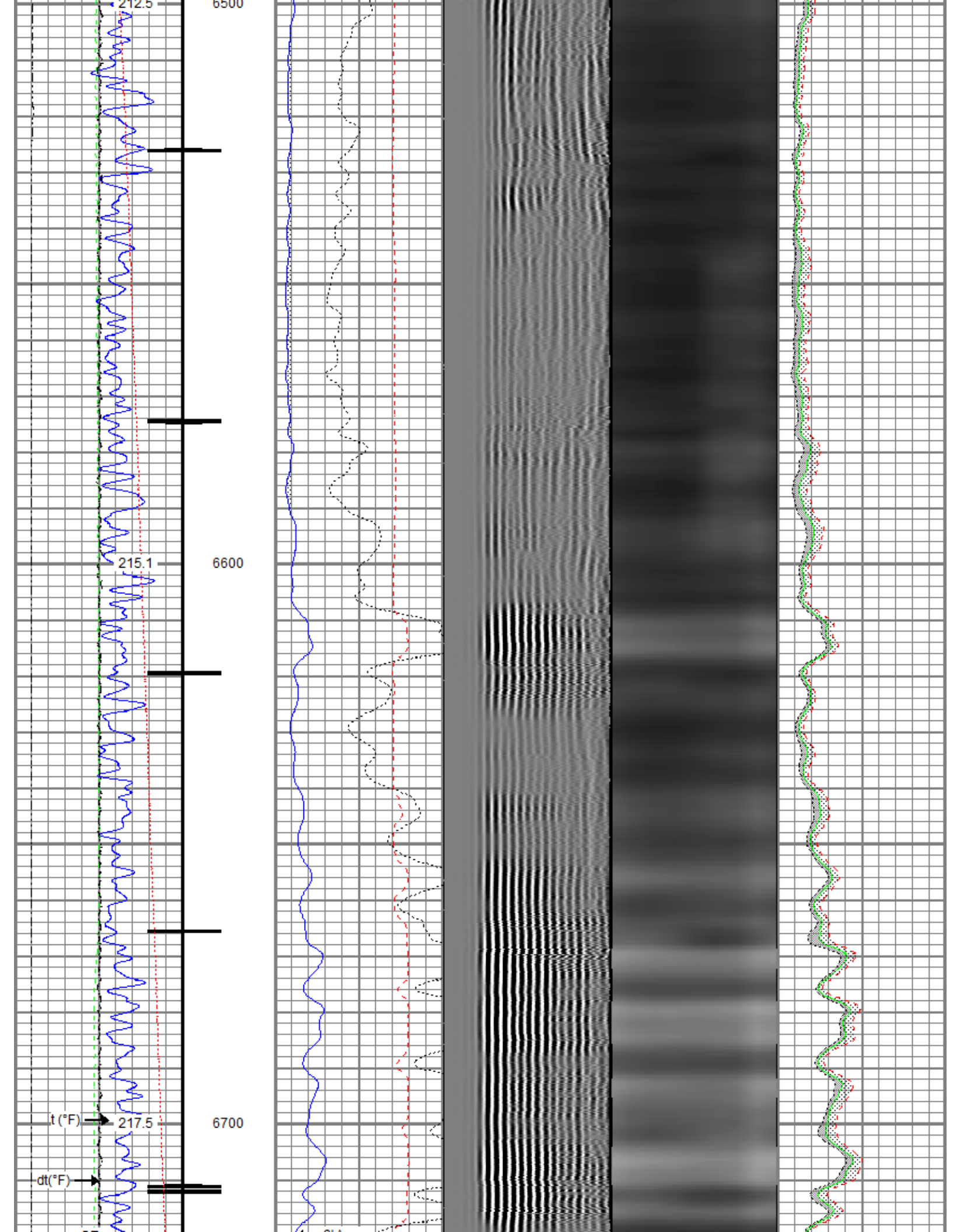


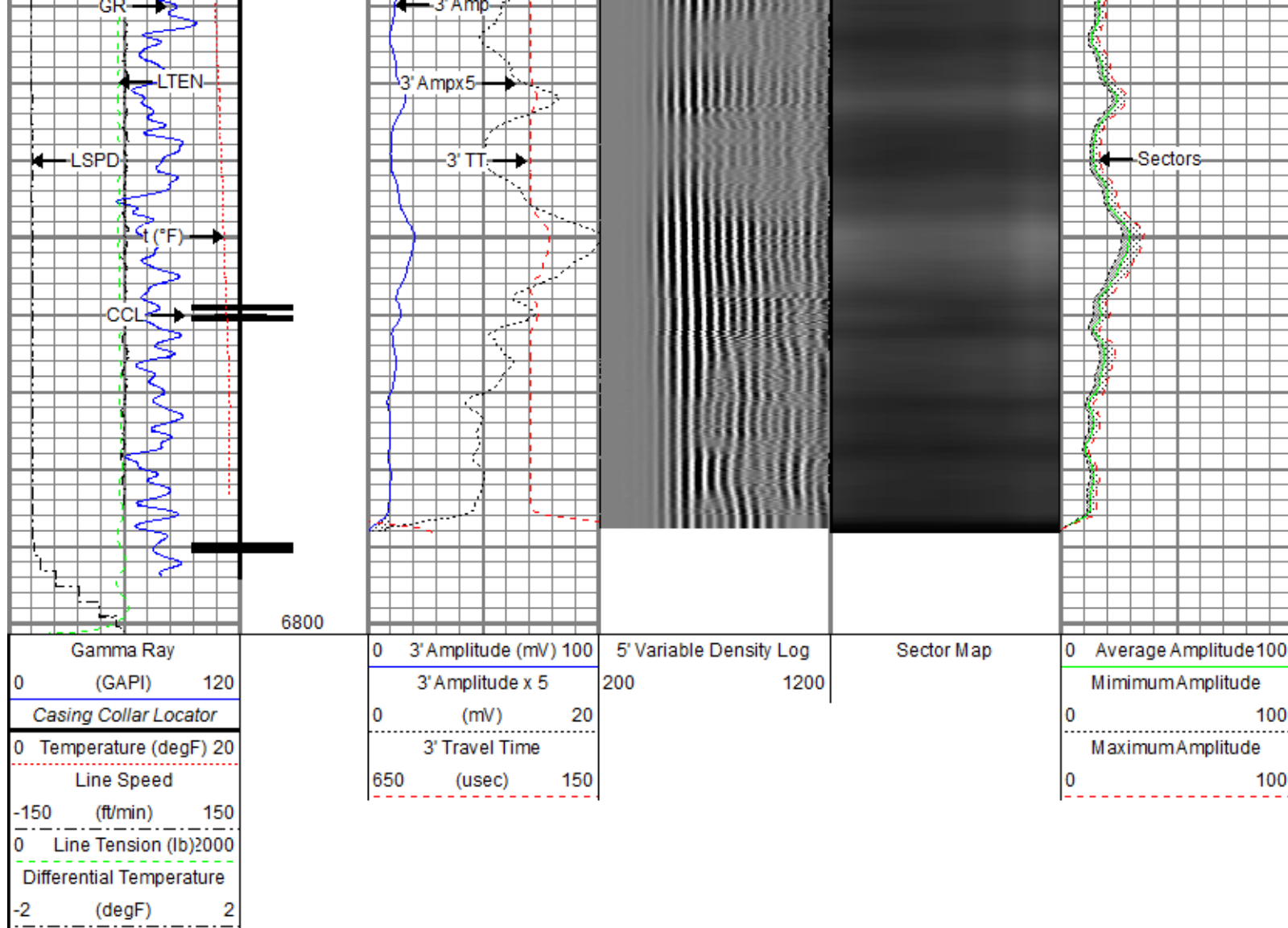








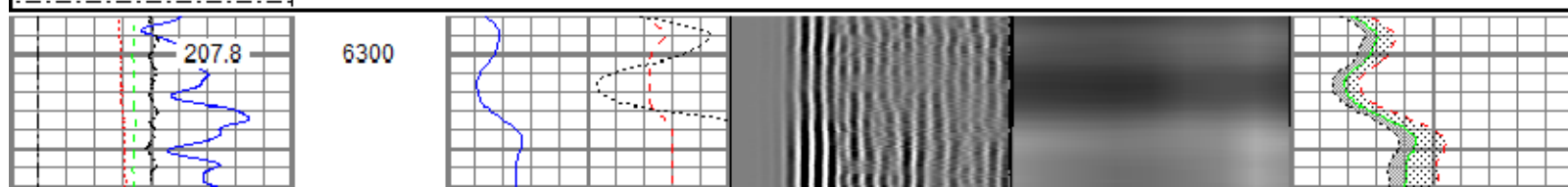
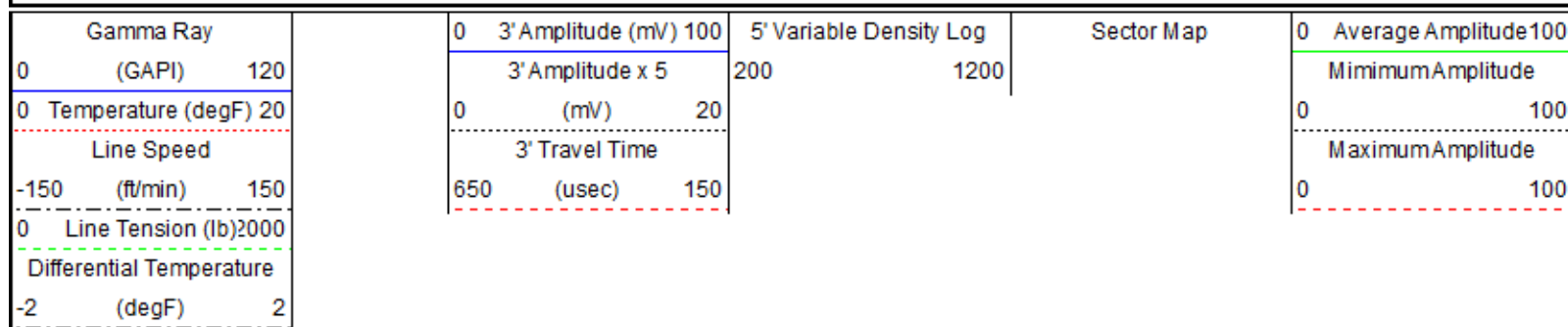


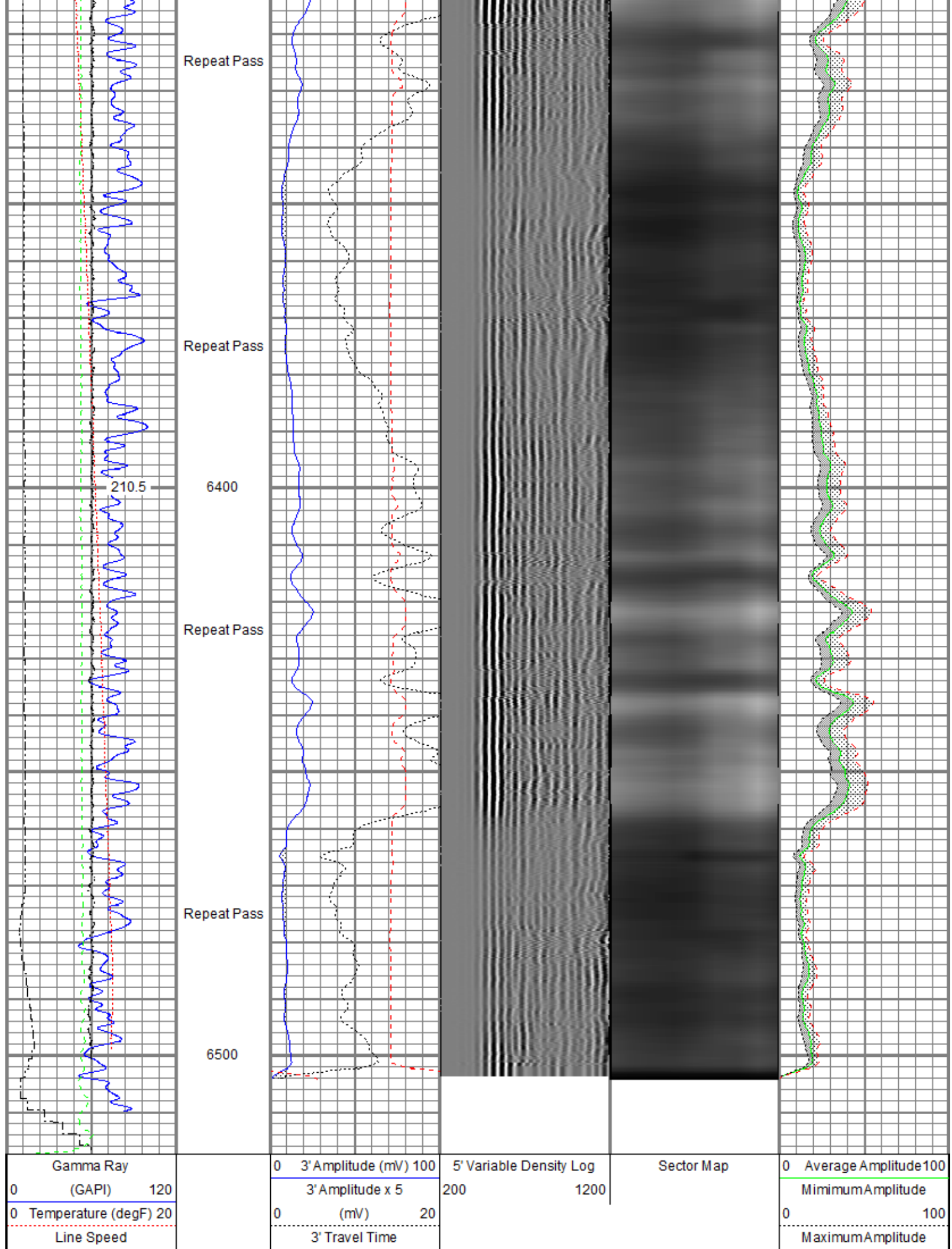


Repeat Pass

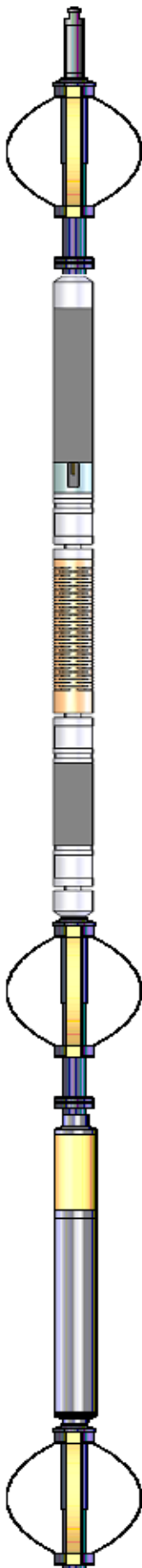
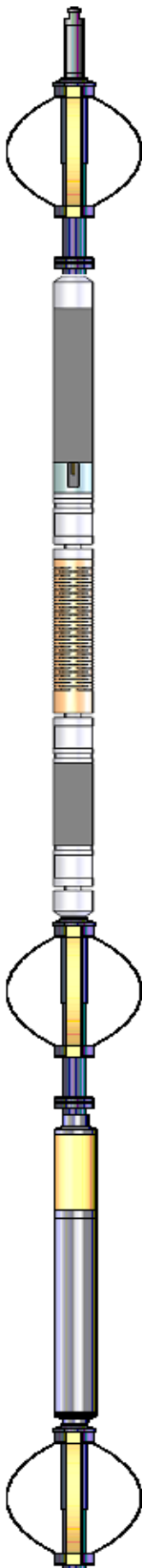
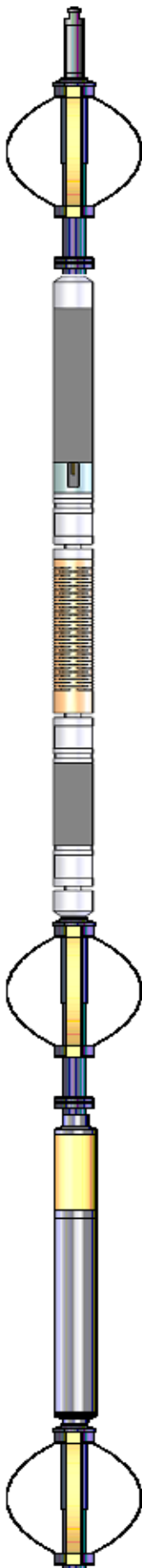
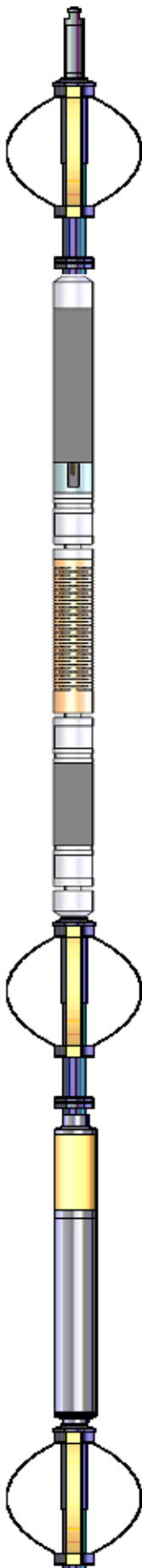
Recorded with 2500 PSI Surface Induced Pressure

Database File: new folder\src energy_falken 33n-9c-l_rbl_03-18-18.db
 Dataset Pathname: repeat.1
 Presentation Format: ros_radrii
 Dataset Creation: Mon Mar 19 07:39:59 2018
 Charted by: Depth in Feet scaled 1:240





-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	16.75		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			
WVFS8	14.52		Probe Radii-2750 RBT (FW0712-020)	9.39	2.75	105.00
WVFS7	14.52		Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
WVFS6	14.52					
WVFS5	14.52					
WVFS4	14.52					
WVFS3	14.52					
WVFS2	14.52					
WVFS1	14.52					
WVFCAL	14.52					
WVF3FT	14.52					
WVF5FT	13.52					
CCL\$2 CCL\$1	6.51		Probe CENT-2750	2.88	2.75	20.00
	6.51		Probe 2-3/4" Electric Inline Bowspring Centralizer			
GR	5.26		Probe GR-CCL-2750 GOB (FW1212-026)	4.51	2.75	55.00
			Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			

Dataset: SRC Energy_Falken 33N-9C-L_RBL_03-18-18.db: field/well/run1/main.1
 Total length: 23.57 ft
 Total weight: 223.60 lb
 O.D.: 2.75 in

Calibration Report

Database File C:\ProgramData\Warrior\Data\New folder\SRC Energy_Falken 33N-9C-L_RBL_03-18-18.db
 Dataset Pathname main.1
 Dataset Creation Sun Mar 18 12:31:37 2018

Gamma Ray Calibration Report

Serial Number: FW1212-026
 Tool Model: 2750 GOB
 Performed: Sun Nov 12 12:27:51 2017

Calibrator Value: 637.0 GAPI

Background Reading: 113.7 cps
 Calibrator Reading: 1029.1 cps

Sensitivity: 0.6959 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW0712-020
 Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
 Calibration Depth: -7.668 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.508	0.800	71.921	140.288	0.625
CAL	0.006	0.621				
5'	0.000	0.604	0.800	71.921	117.862	0.751
SUM						
S1	0.001	0.395	0.000	100.000	254.184	-0.276
S2	0.001	0.460	0.000	100.000	217.896	-0.220
S3	0.001	0.501	0.000	100.000	200.124	-0.232
S4	0.001	0.511	0.000	100.000	196.230	-0.244
S5	0.001	0.493	0.000	100.000	203.461	-0.258
S6	0.001	0.443	0.000	100.000	226.567	-0.335
S7	0.001	0.414	0.000	100.000	242.425	-0.319
S8	0.001	0.301	0.000	100.000	333.146	-0.369

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.621	1.000	0.000

Air Zero Calibration, performed Tue Mar 13 15:35:18 2018:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.006	0.000	0.000

5'	0.006	0.000	0.000
SUM			
S1	0.006	0.000	-0.000
S2	0.006	0.000	-0.000
S3	0.006	0.000	0.000
S4	0.006	0.000	0.000
S5	0.006	0.000	0.000
S6	0.006	0.000	0.000
S7	0.006	0.000	0.000
S8	0.006	0.000	0.000

Temperature Calibration Report

Serial Number: FW0712-020
Tool Model: 2750 RBT
Performed: Thu Dec 21 07:48:40 2017

	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF

Gain: 0.84
Offset: 7.72
Delta Spacing: 1



Company SRC Energy Inc
Well Falken 33N-9C-L
Field Wattenberg
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State Colorado