



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company SRC Energy Inc
Well Falken 31N-14B-S
Field Wattenberg
County Weld
State Colorado

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Location: API #: 05-123-45121
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	14-MAR-2018	Four		
Run Number		13343 FT (GL)		
Depth Driller		7014 FT		
Depth Logger		6998 FT		
Bottom Logged Interval		Surface		
Top Log Interval		8.5"		
Open Hole Size		Water		
Type Fluid		Density / Viscosity		
		8.34 lb/gal		
		213°F		
Max. Recorded Temp.		See Log		
Estimated Cement Top		ROA		
Time Well Ready		0730		
Time Logger on Bottom		HD-325		
Equipment Number		Fort Lupton, CO		
Location		C. Bryan		
Recorded By		Tom Flynn		
Witnessed By				
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 from Ground Level at 0 FT
Depth referenced to Casing Tally reported Marker Joint at 6836 FT
Adjusted -26 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

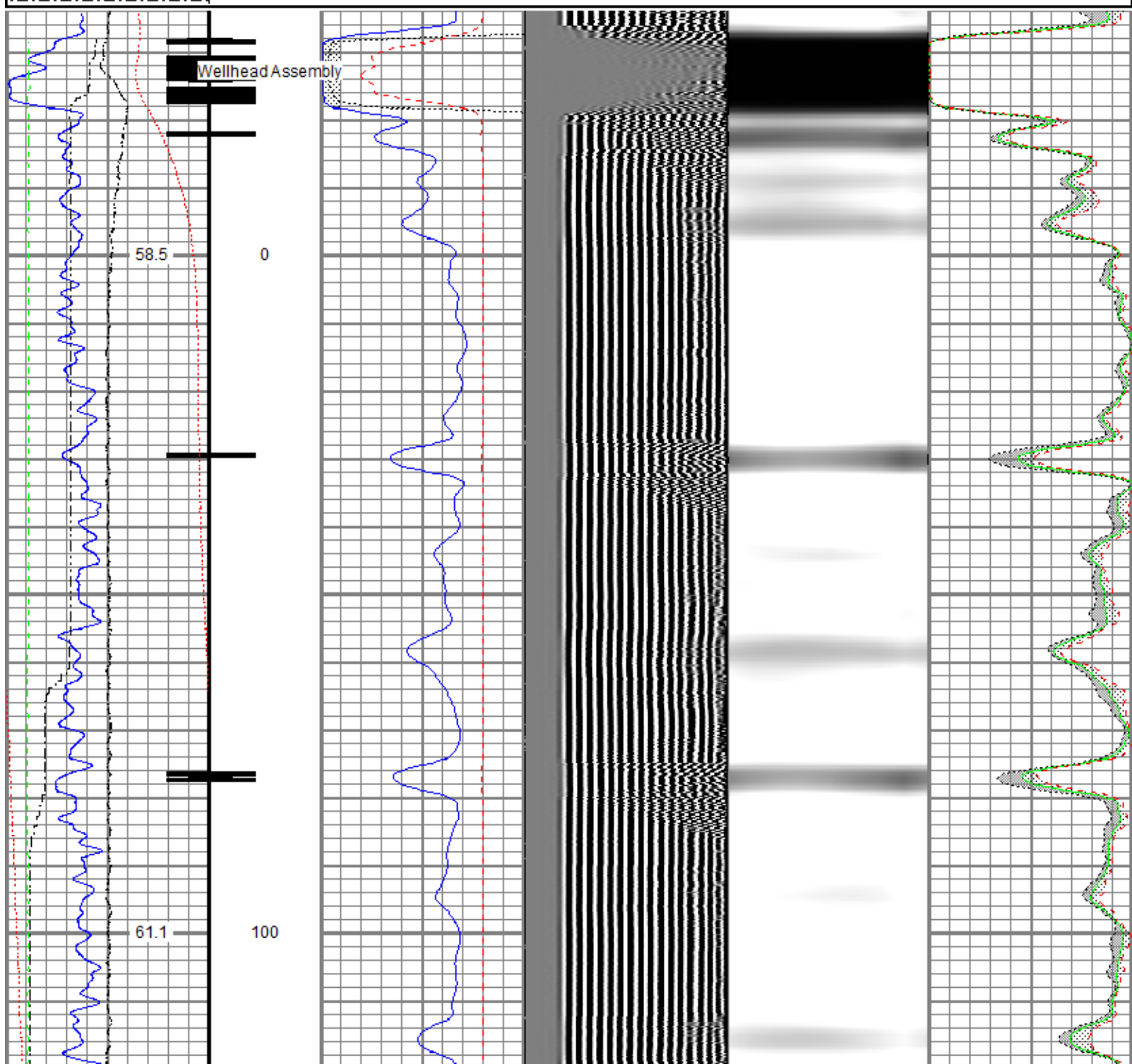
Thank you for choosing Reliance Oilfield Services, LLC!!

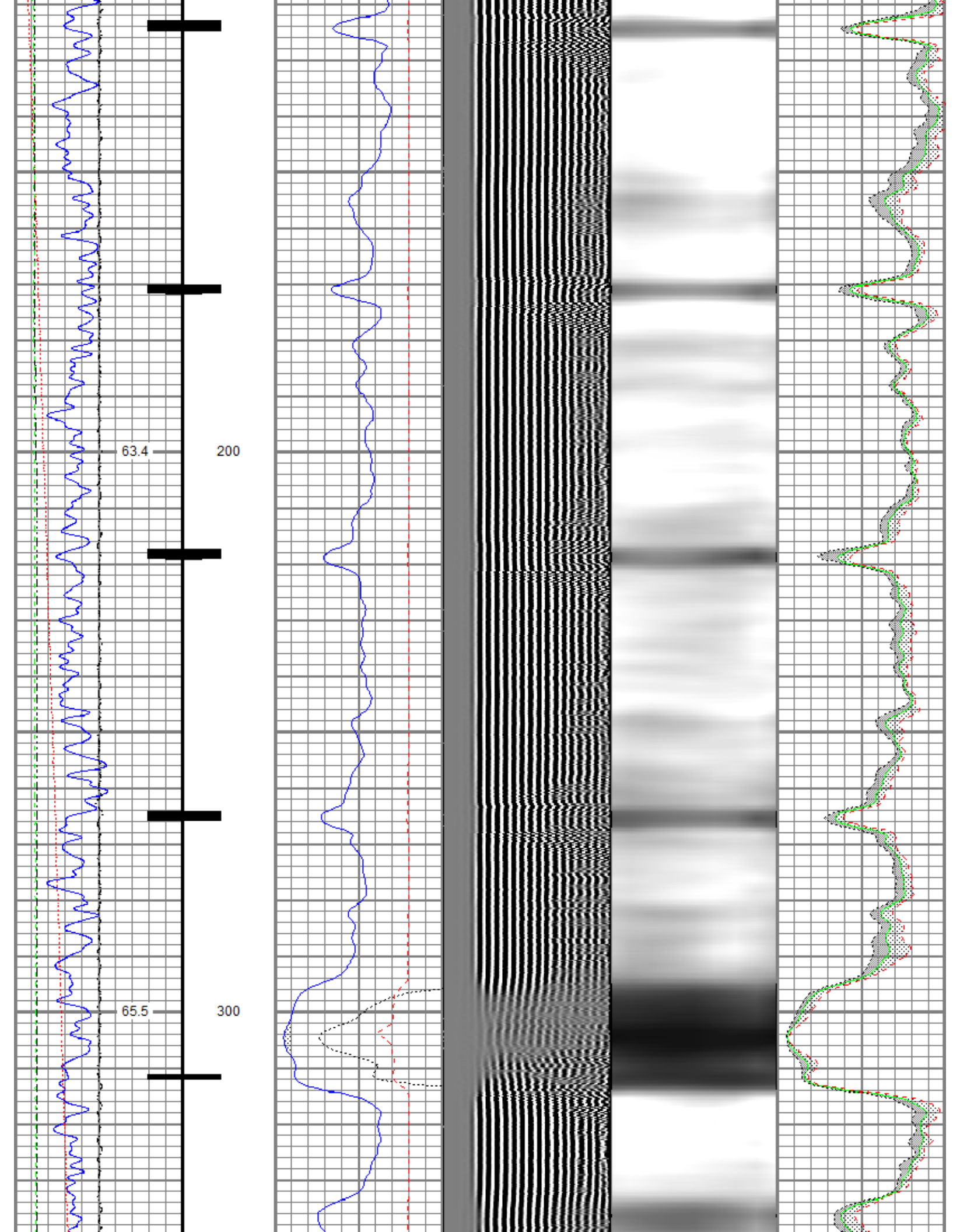
Main Pass

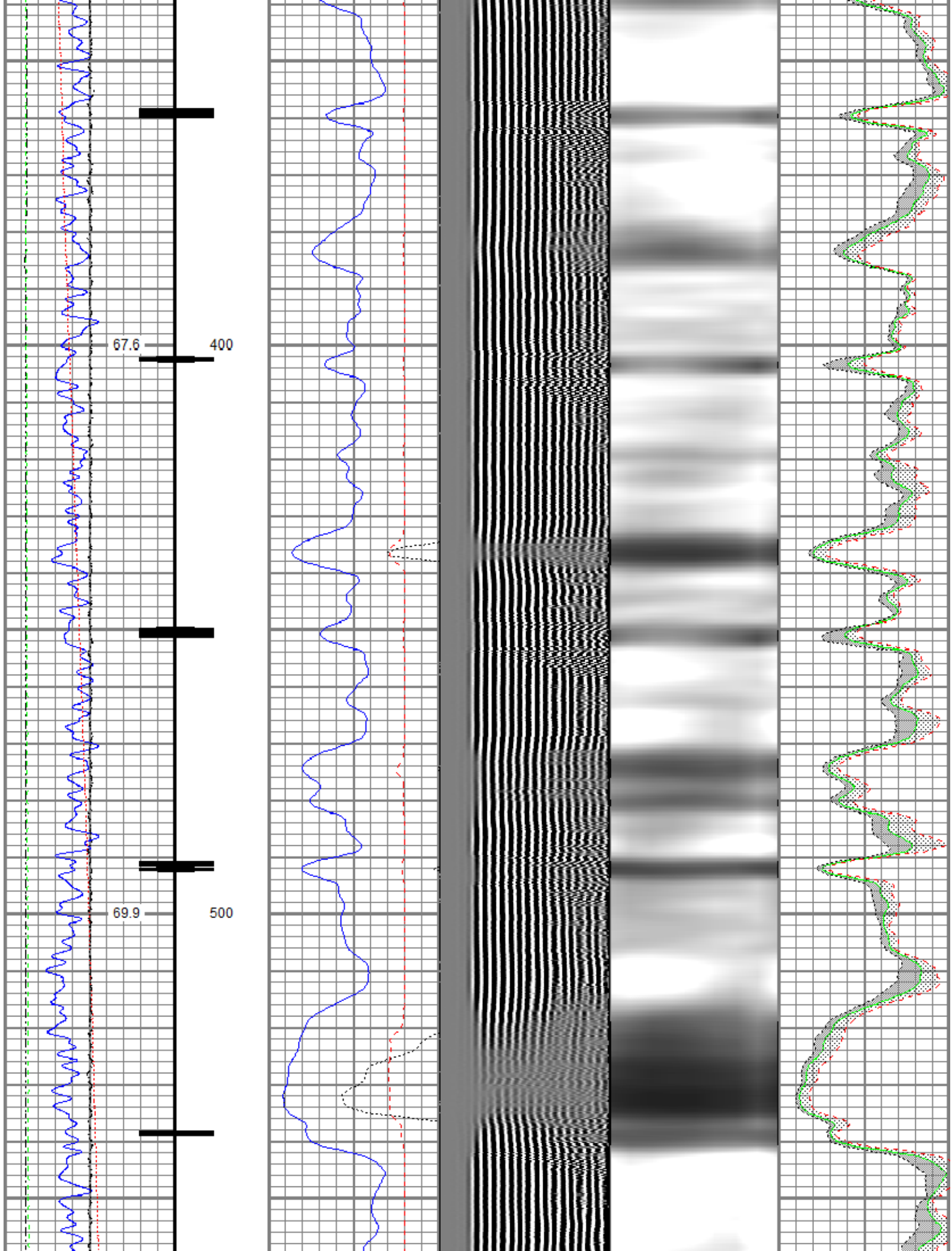


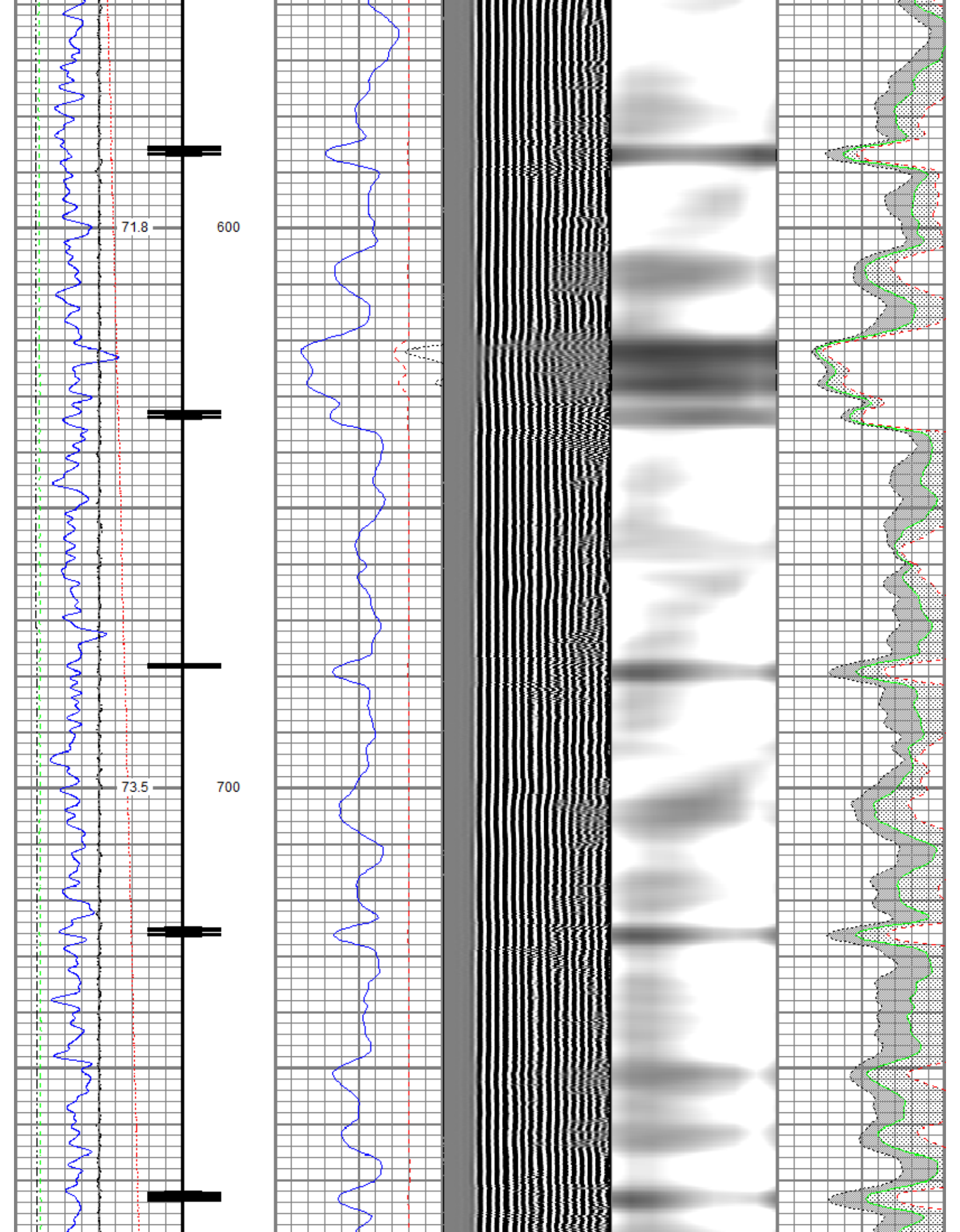
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 Dataset Pathname main.5
 Presentation Format ros_radri
 Dataset Creation Thu Mar 15 10:19:55 2018
 Charted by Depth in Feet scaled 1:240

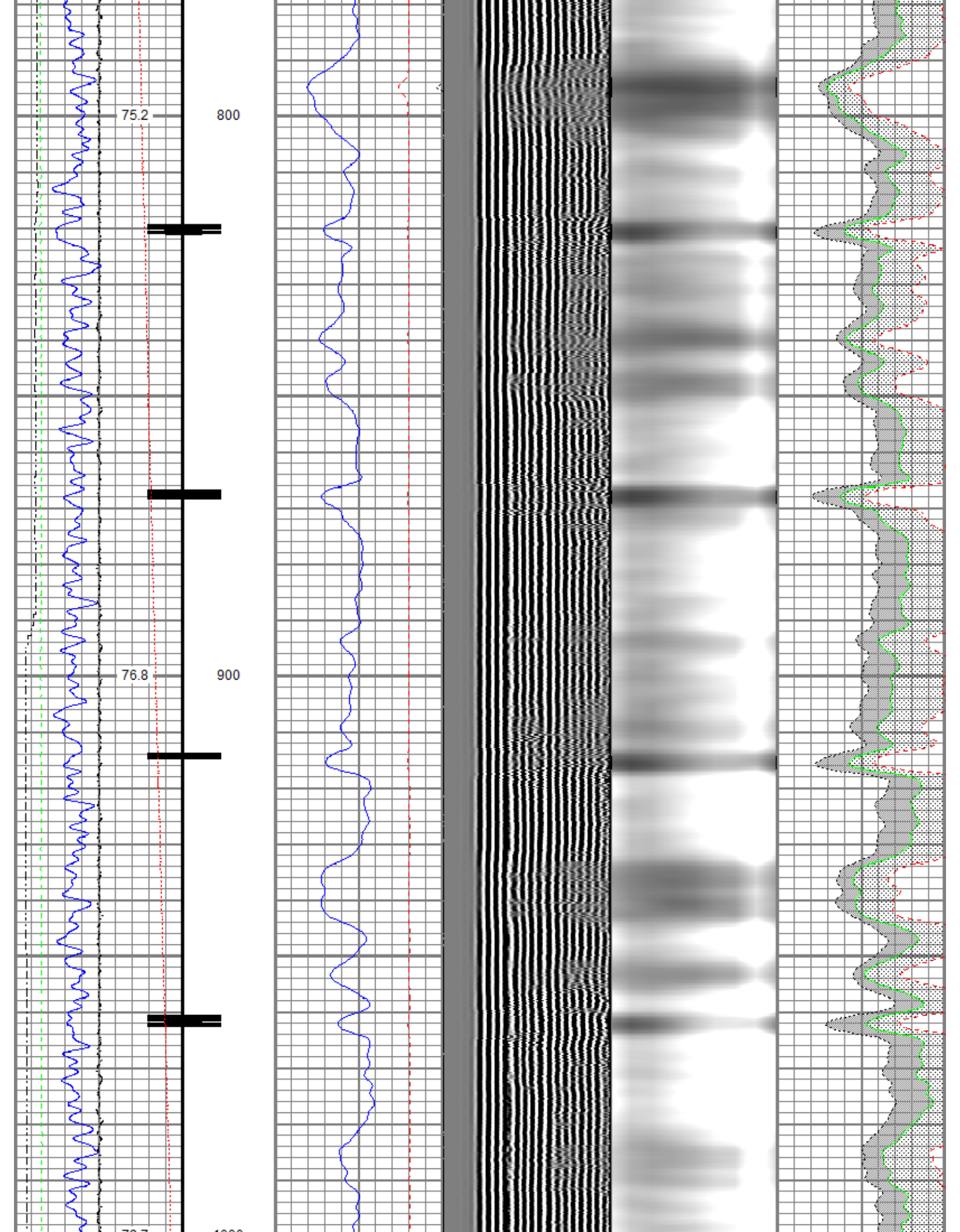
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150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

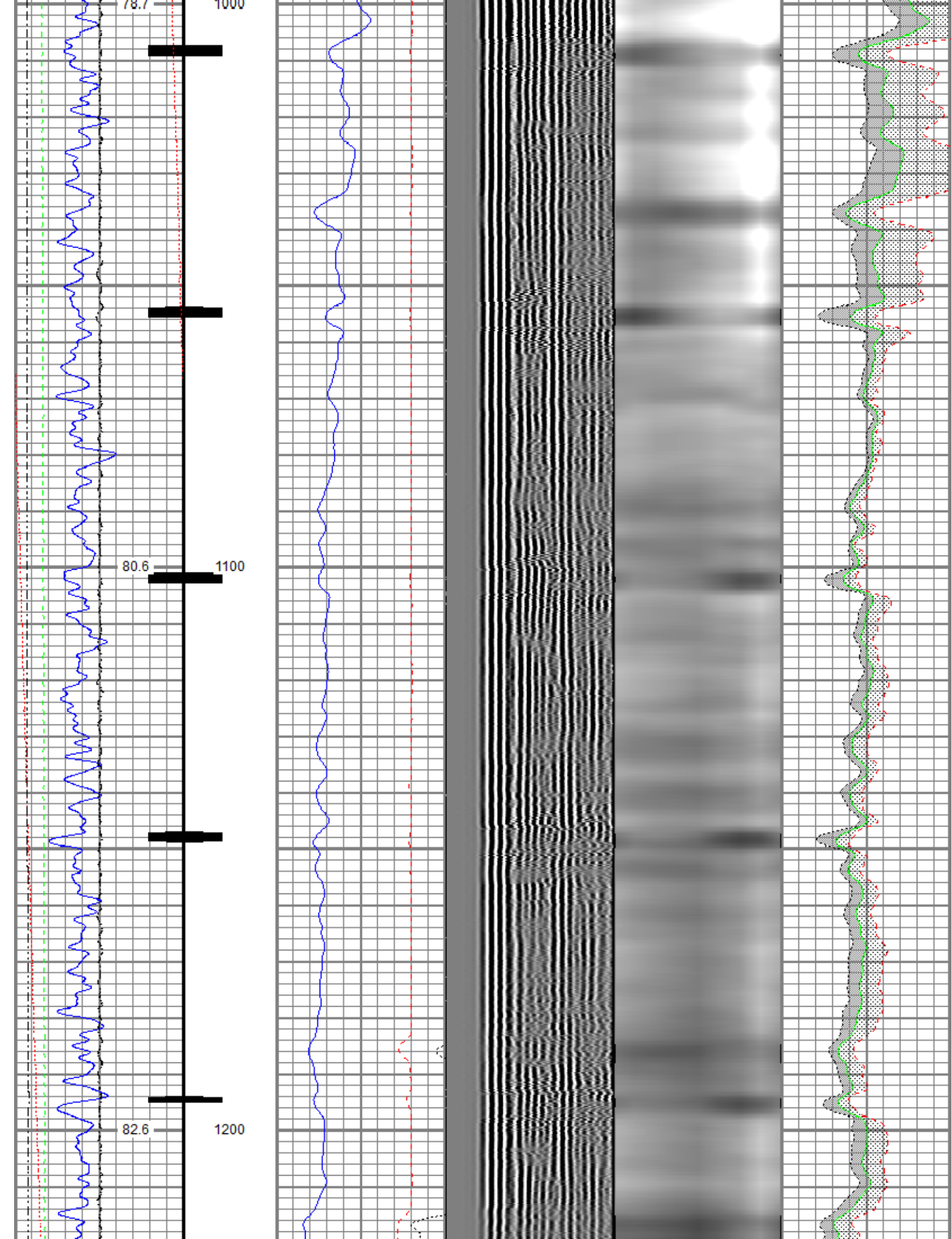


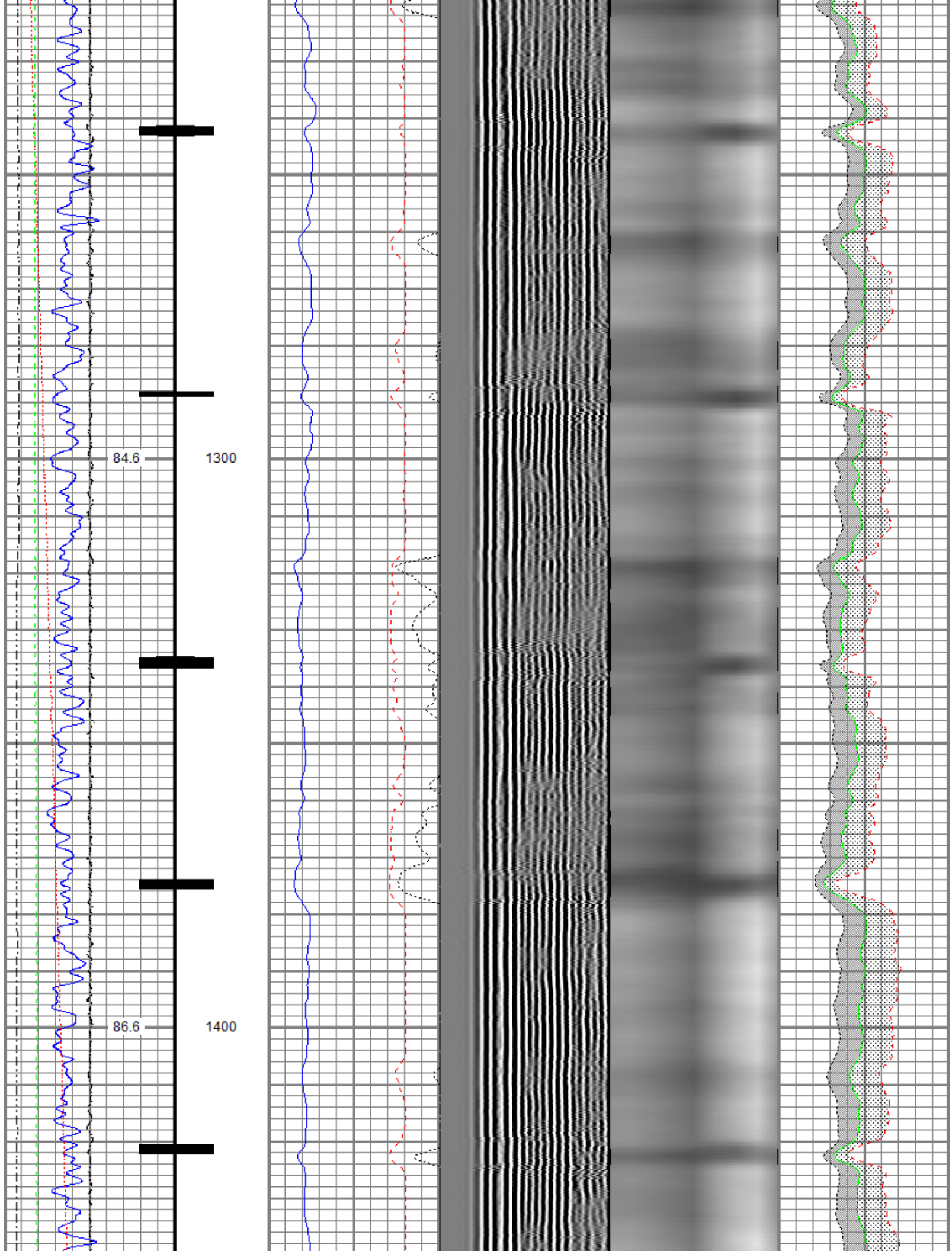


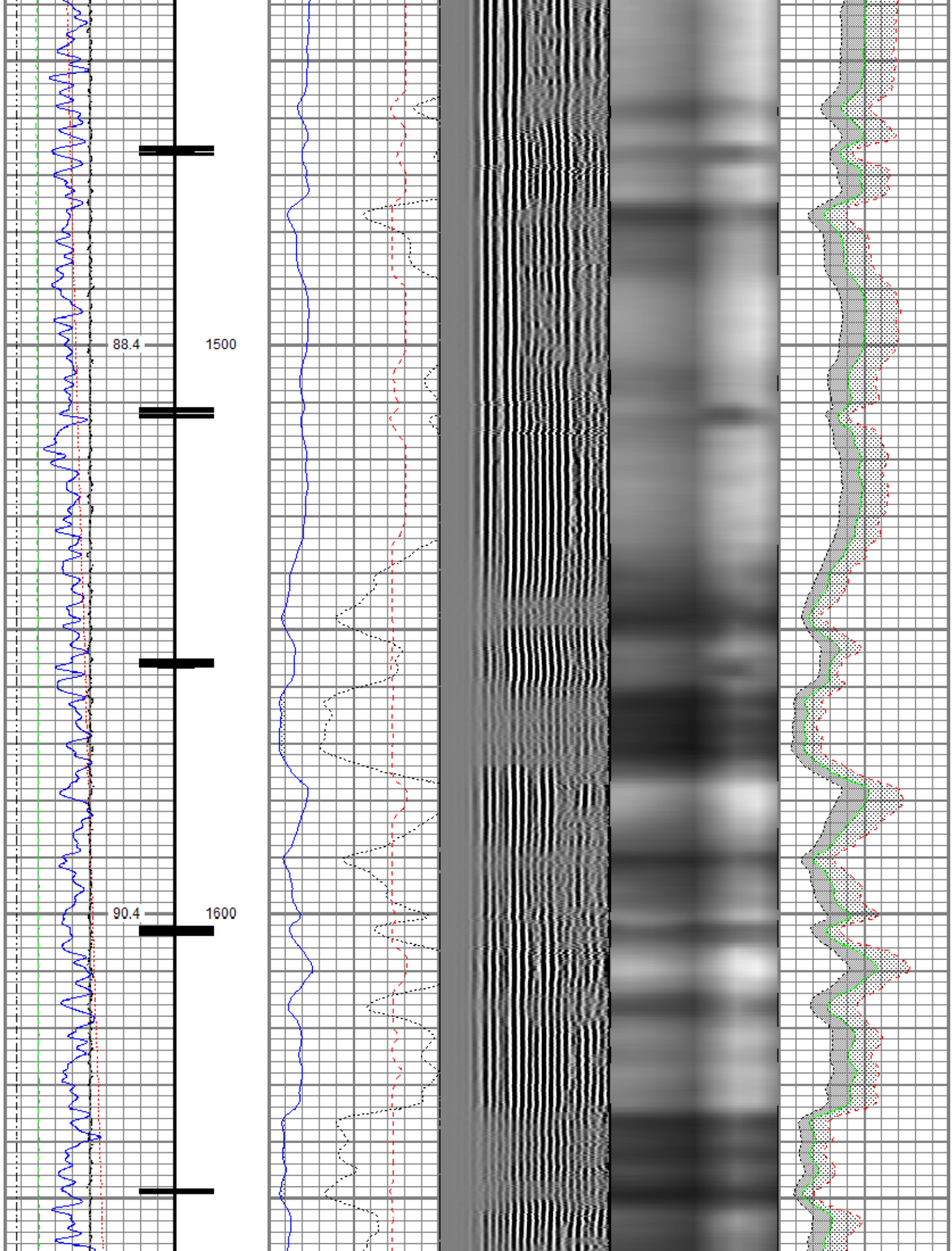


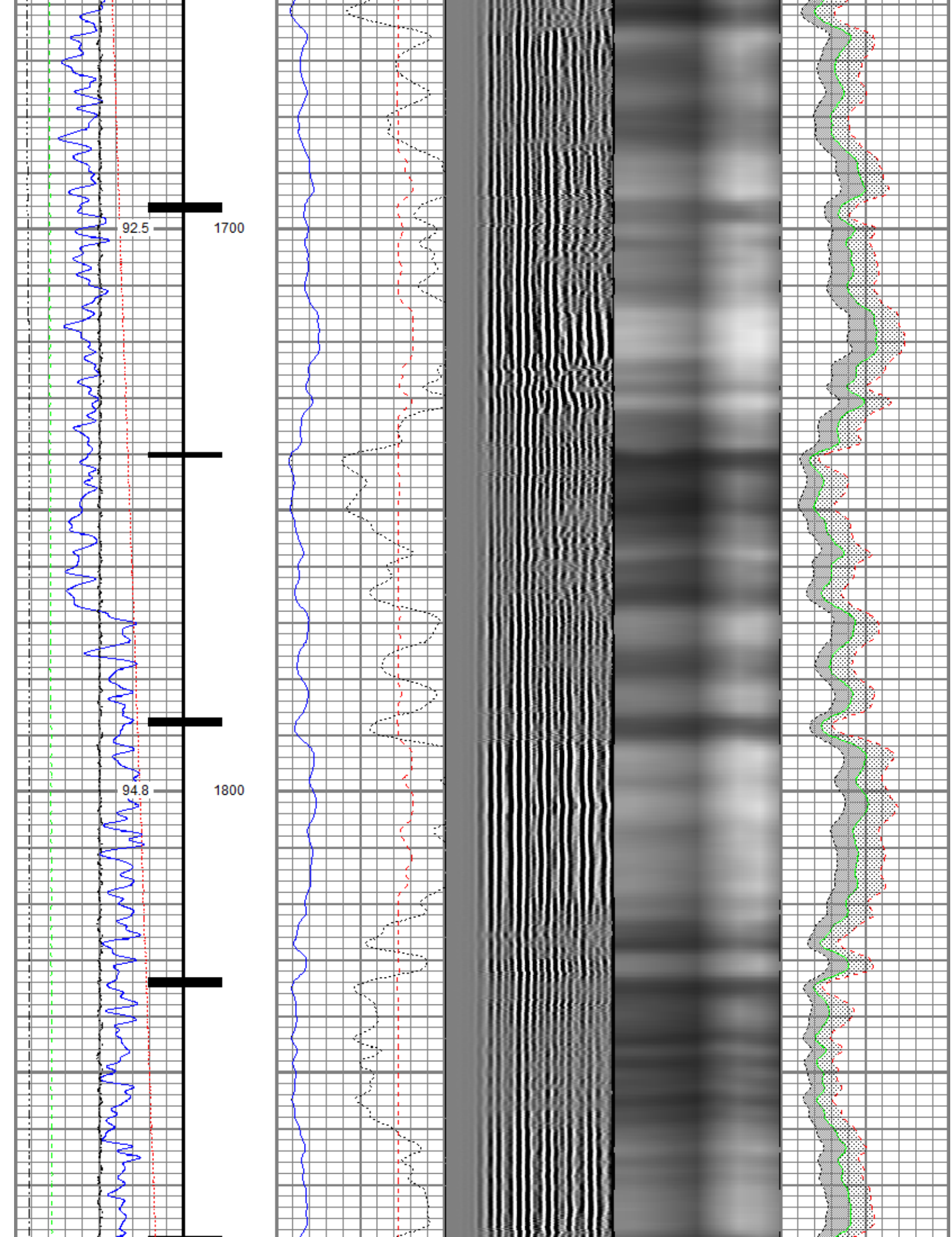


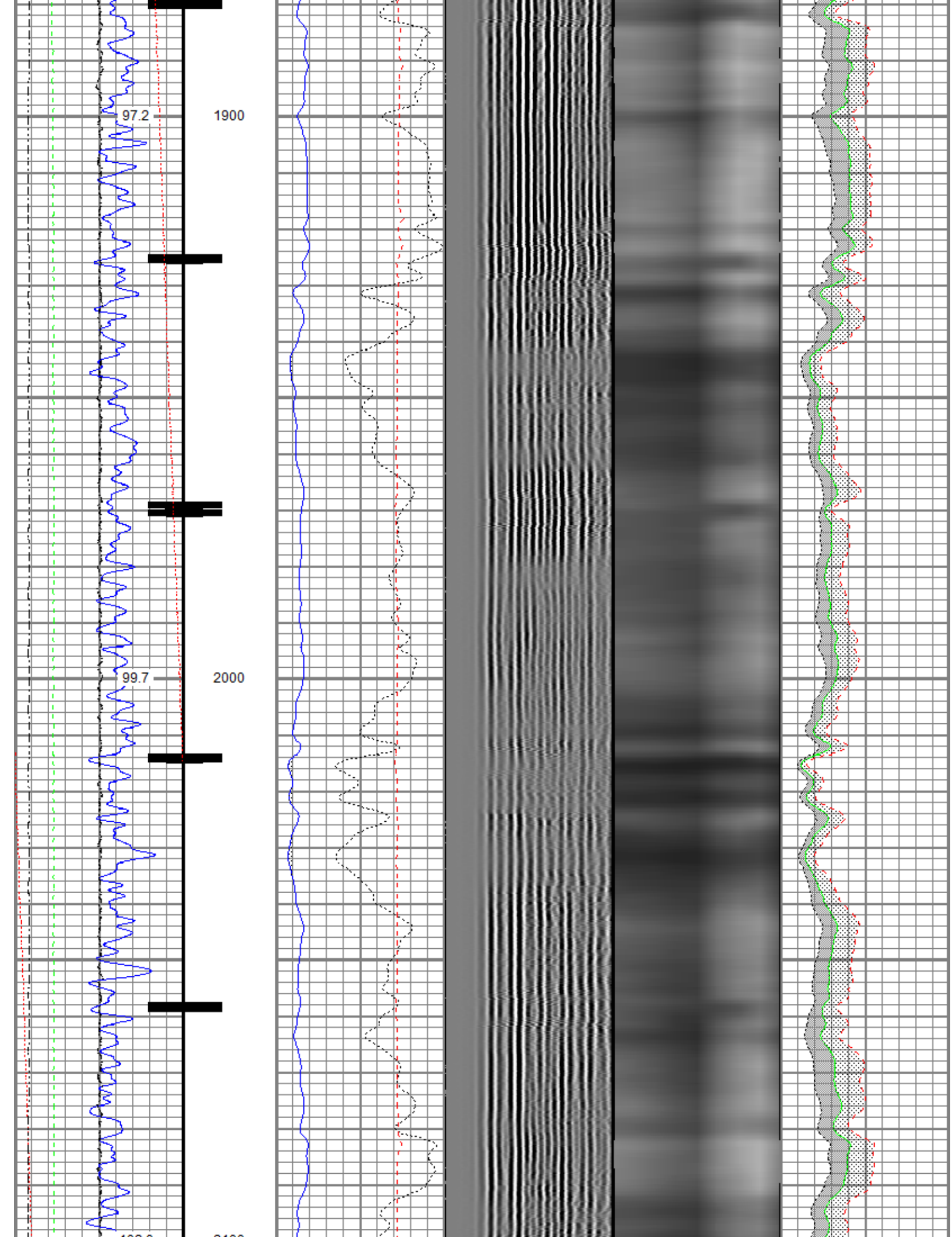


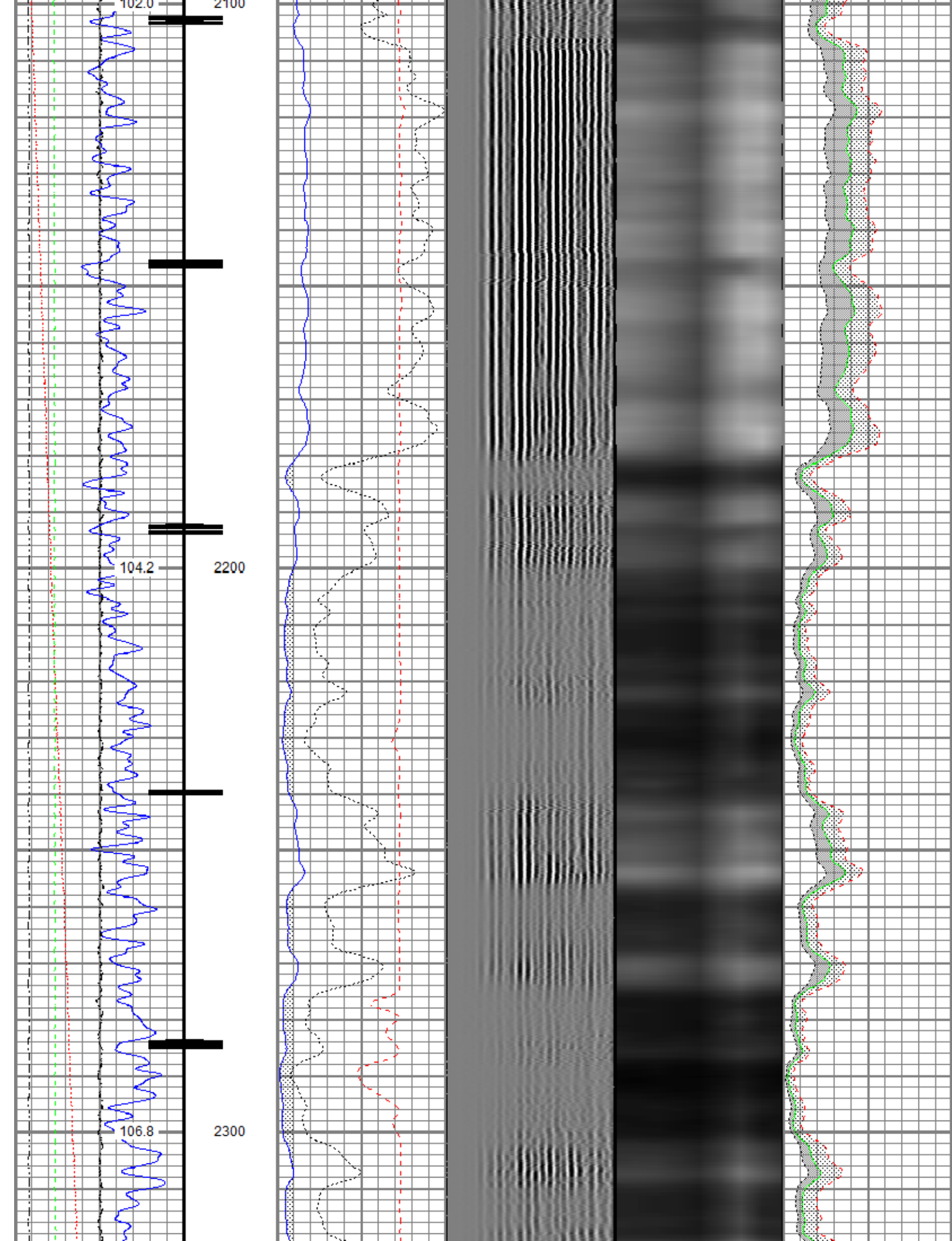


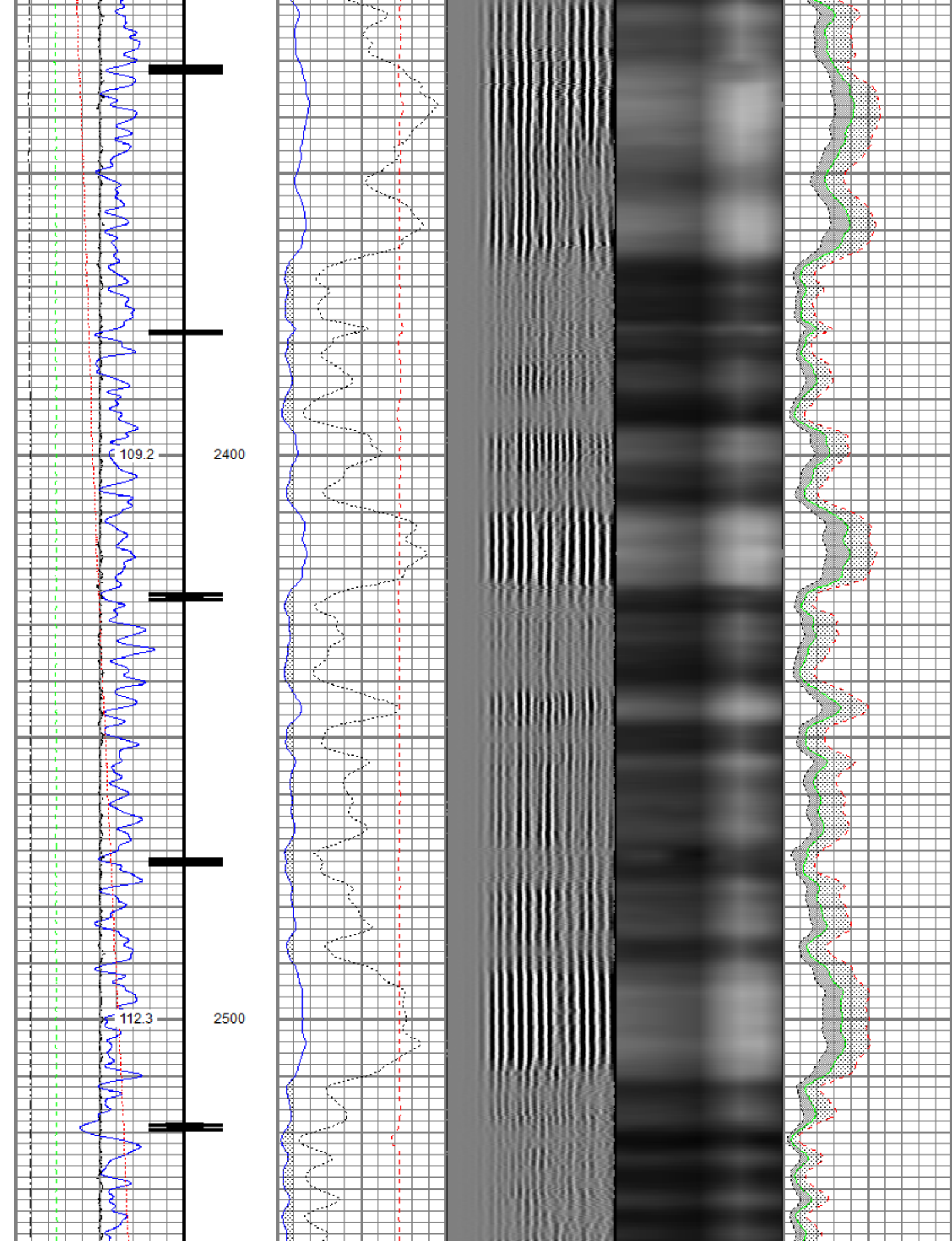


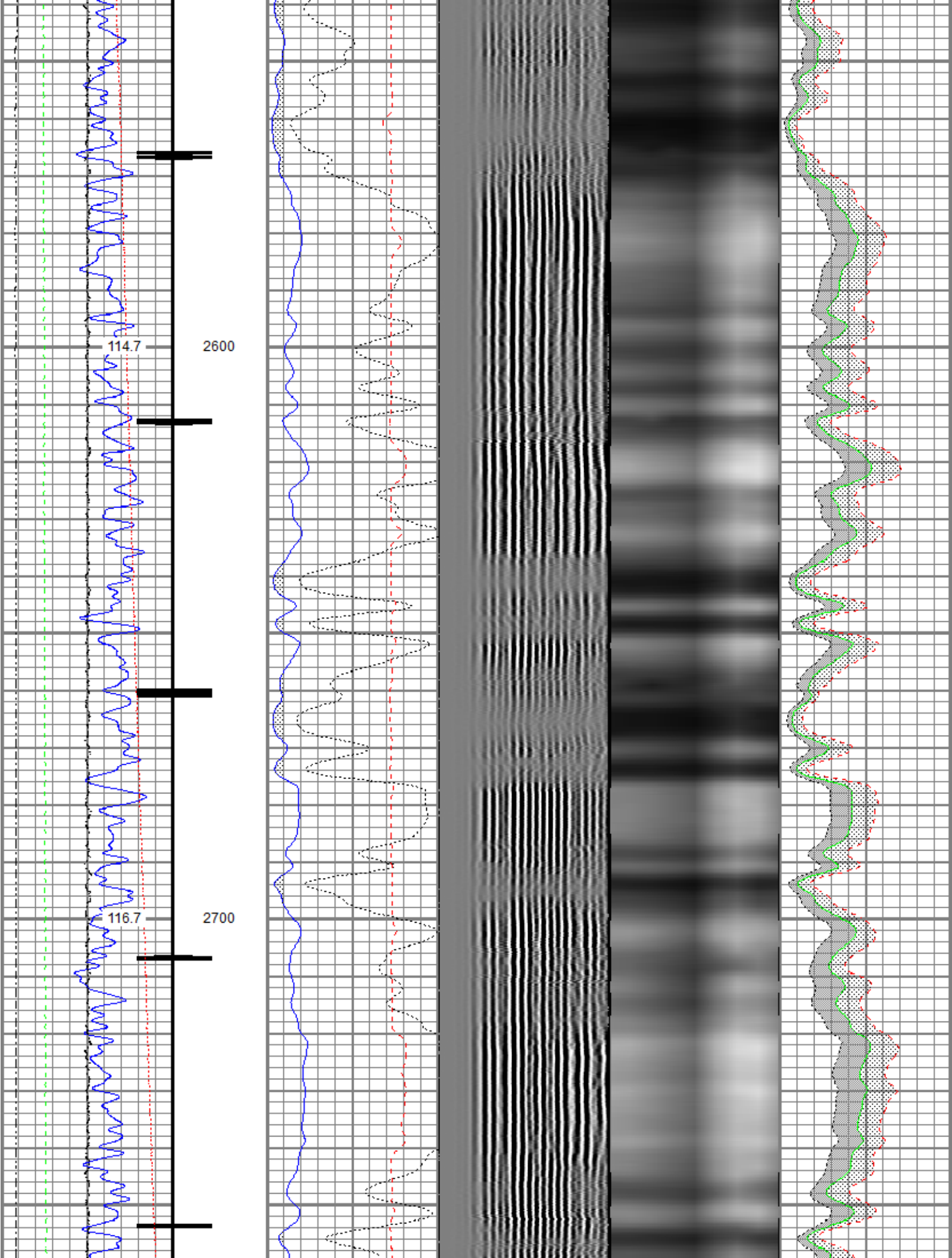


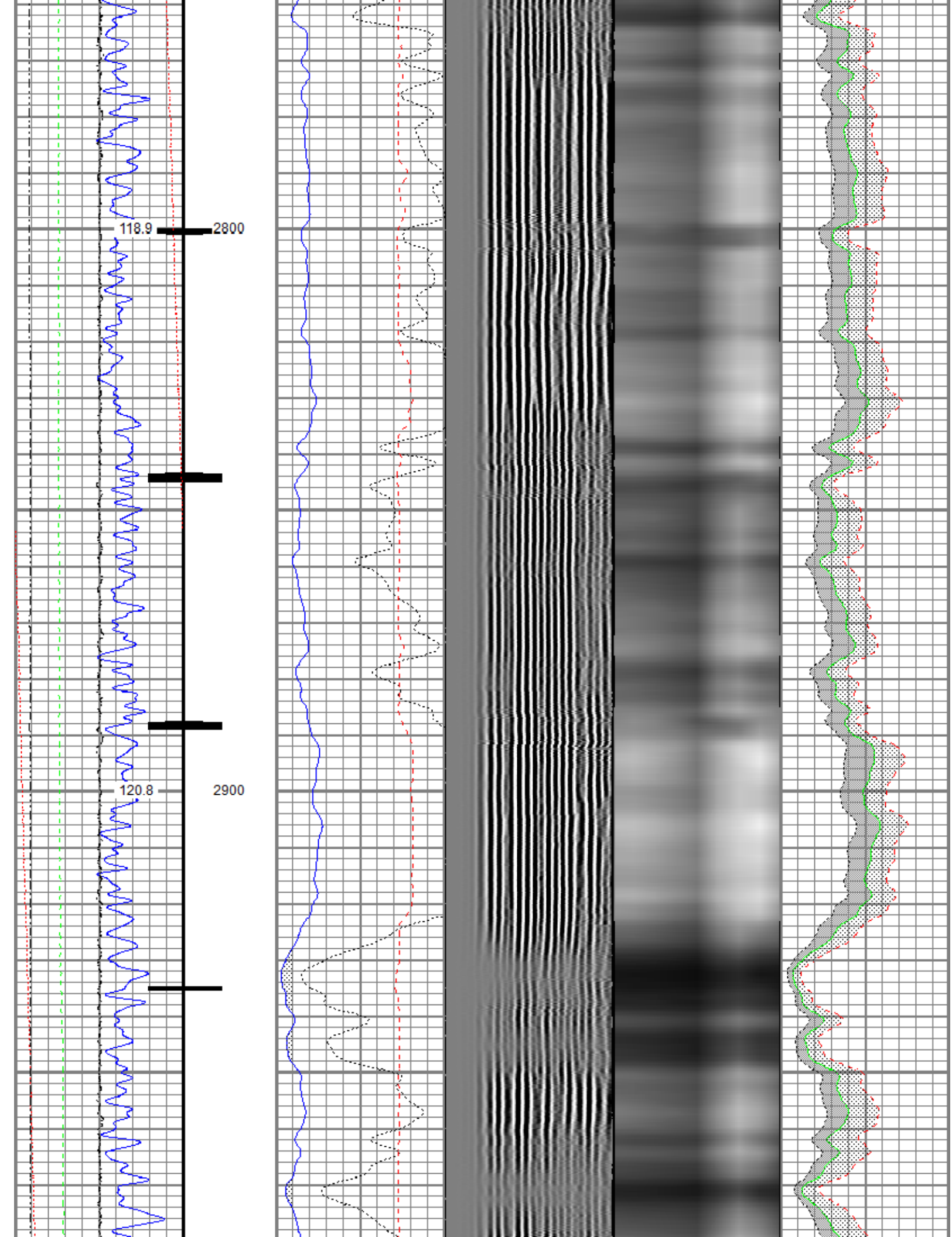


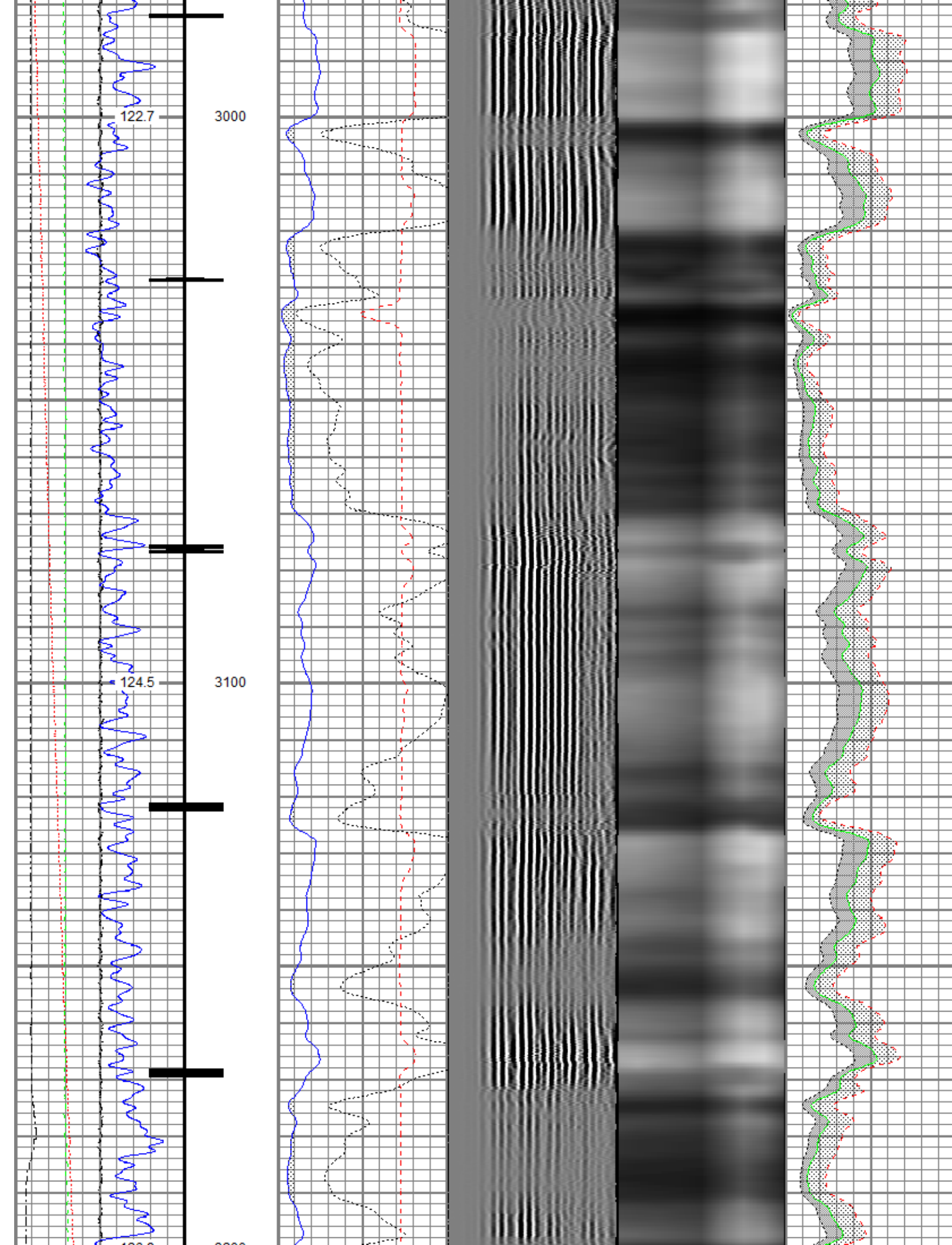


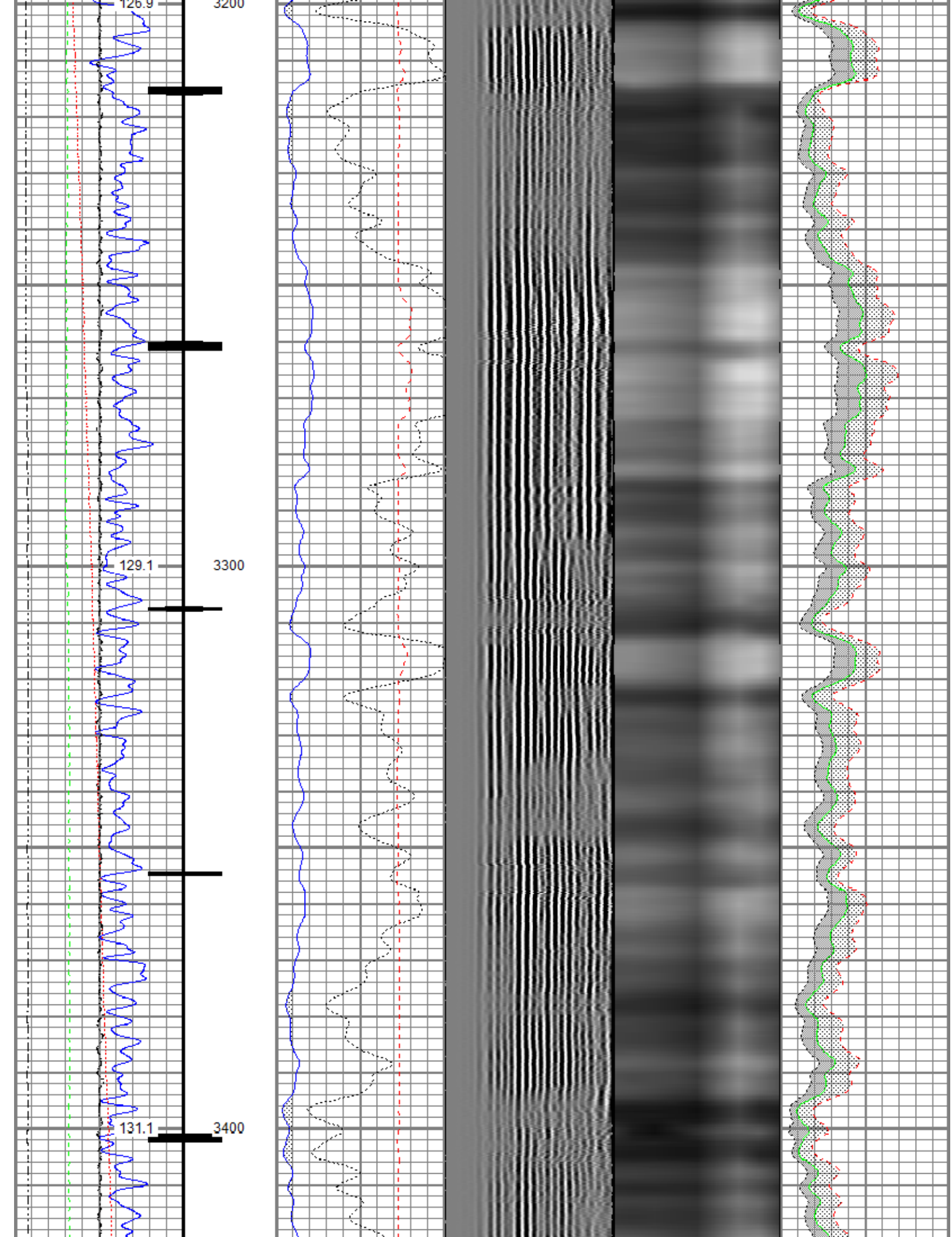


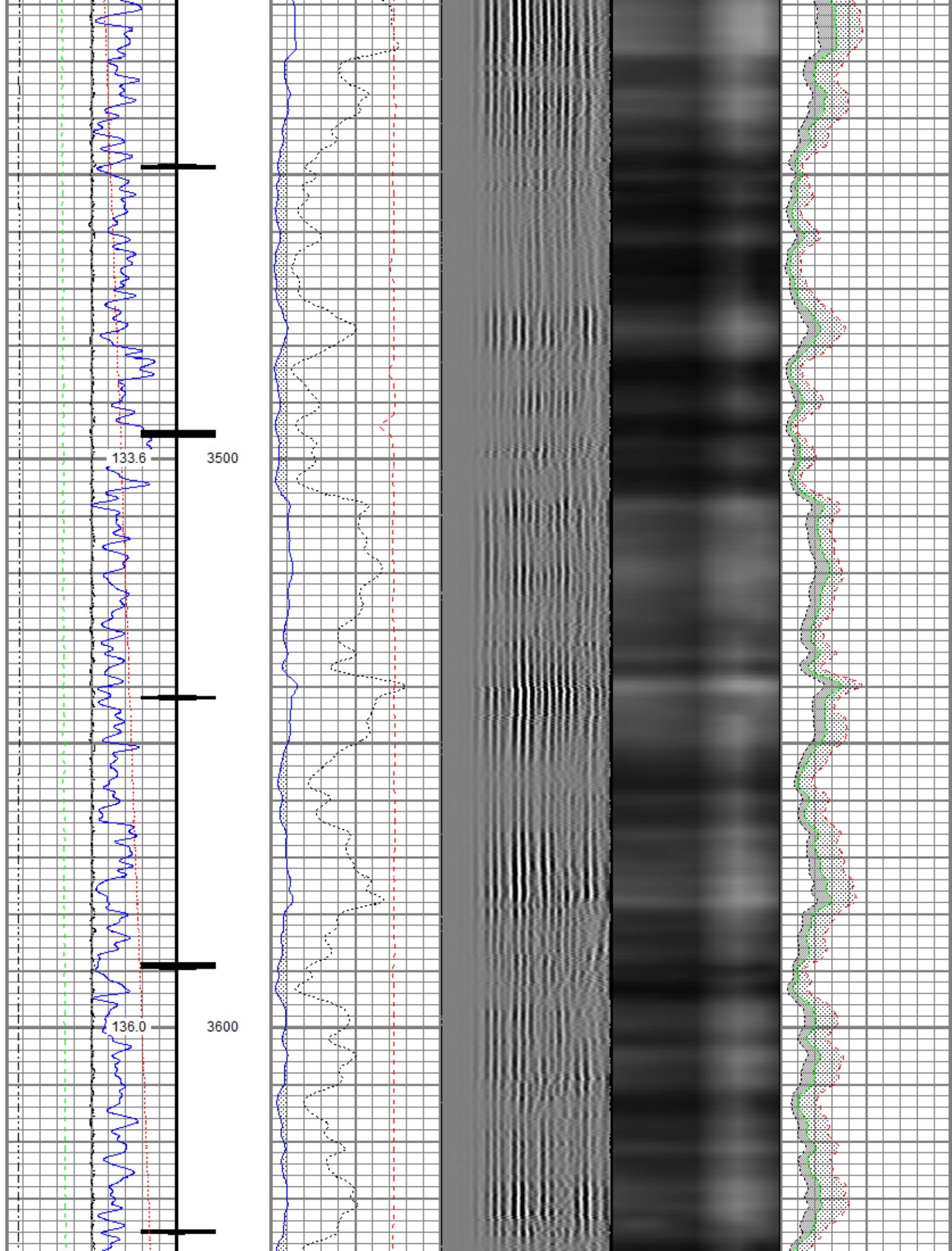


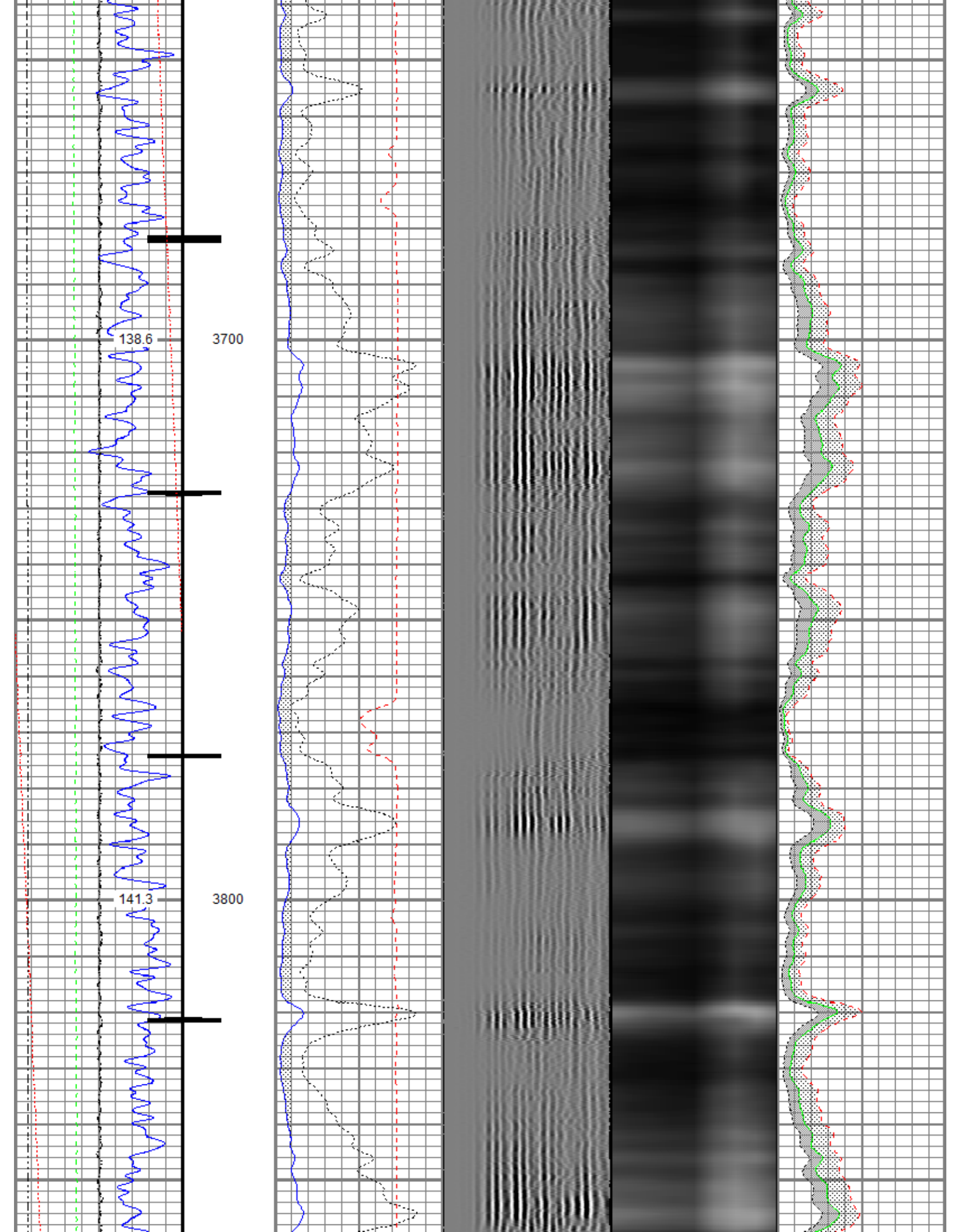


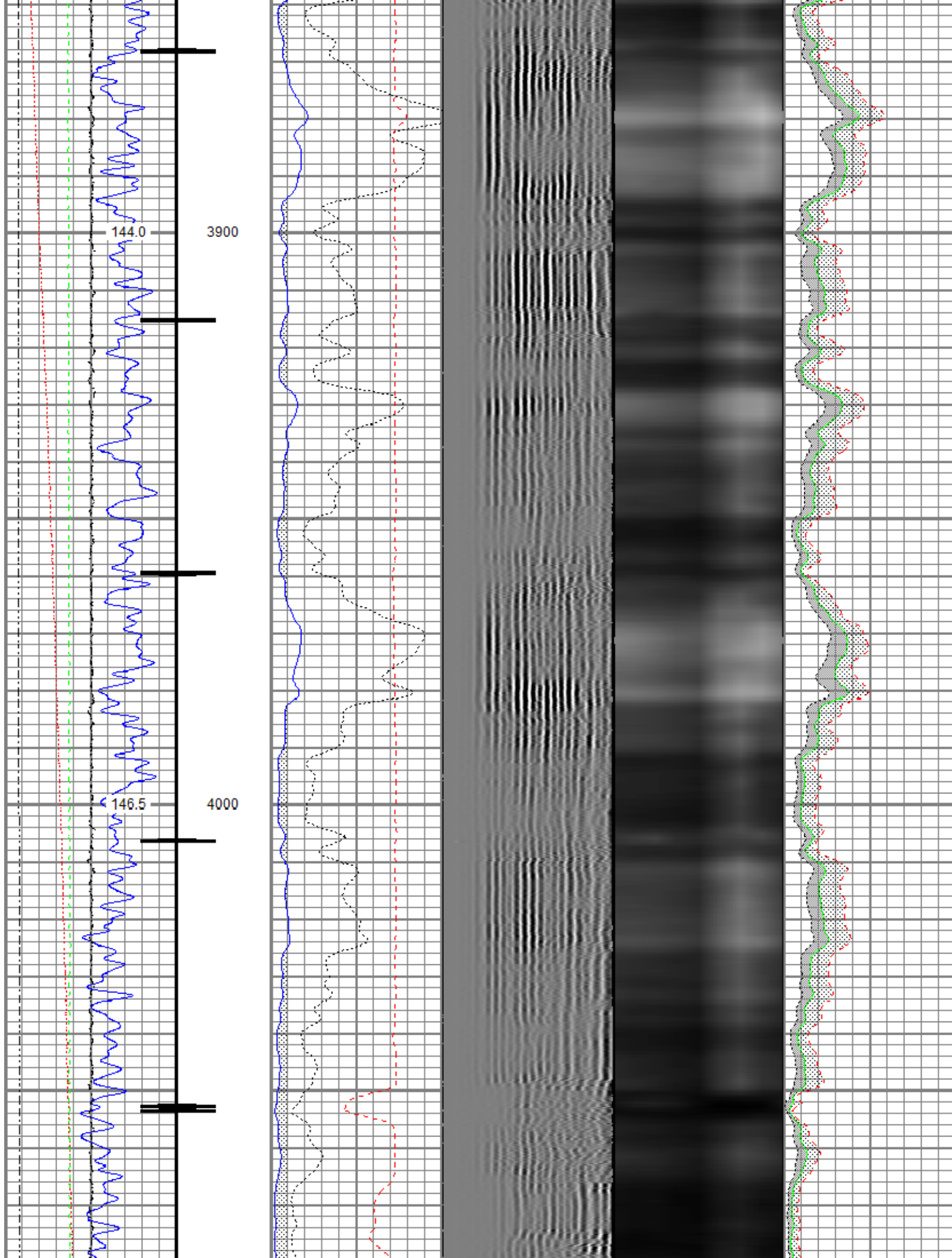


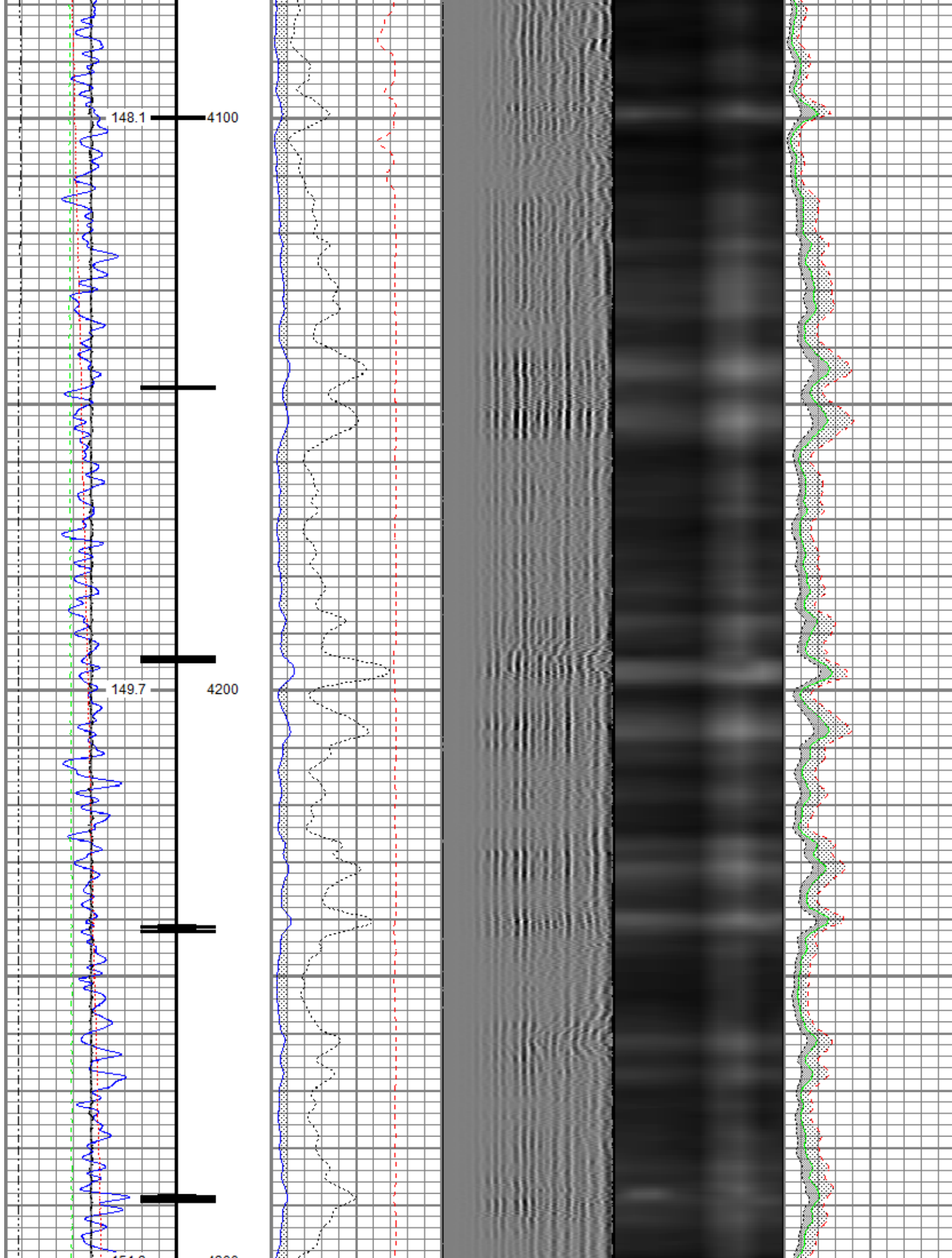


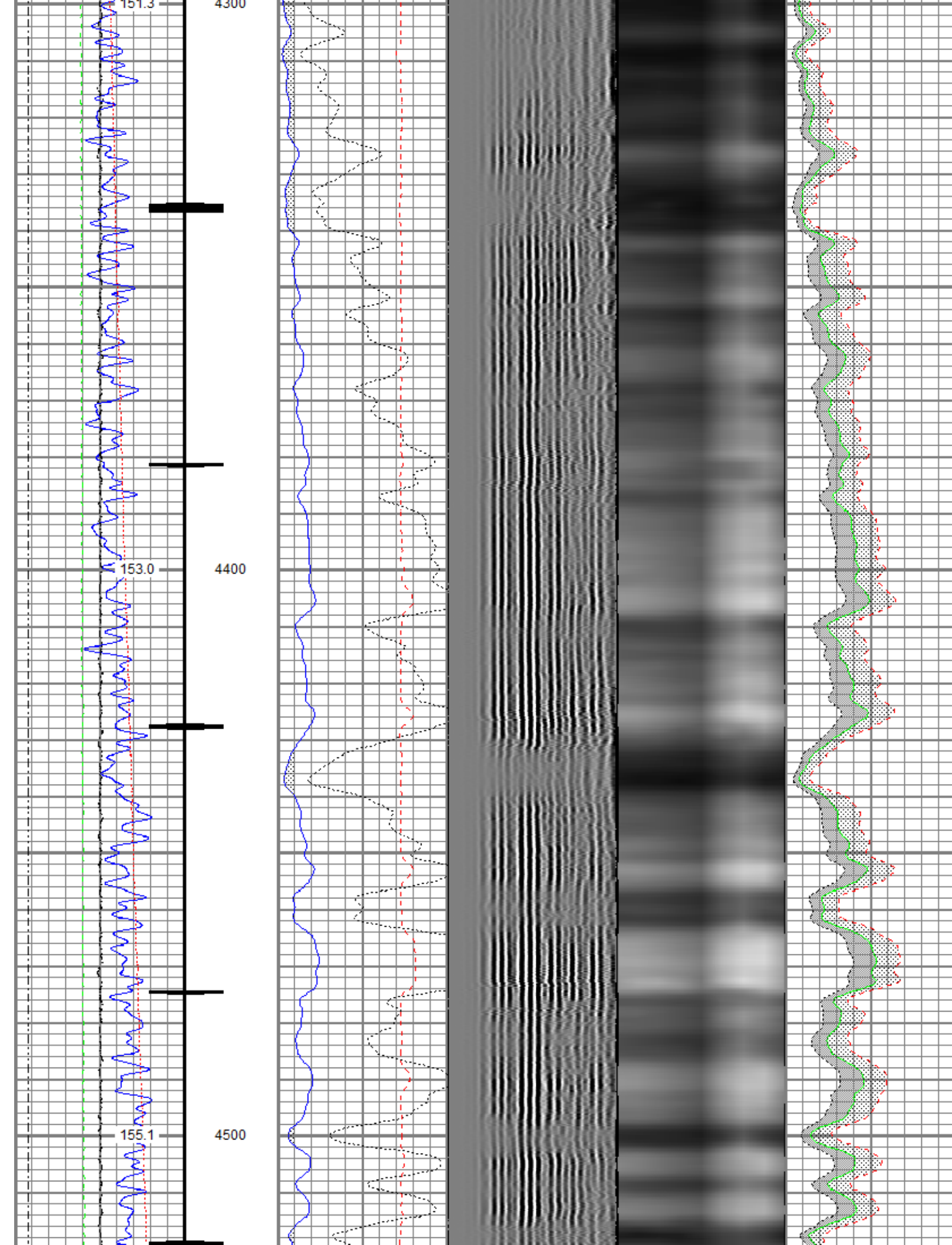


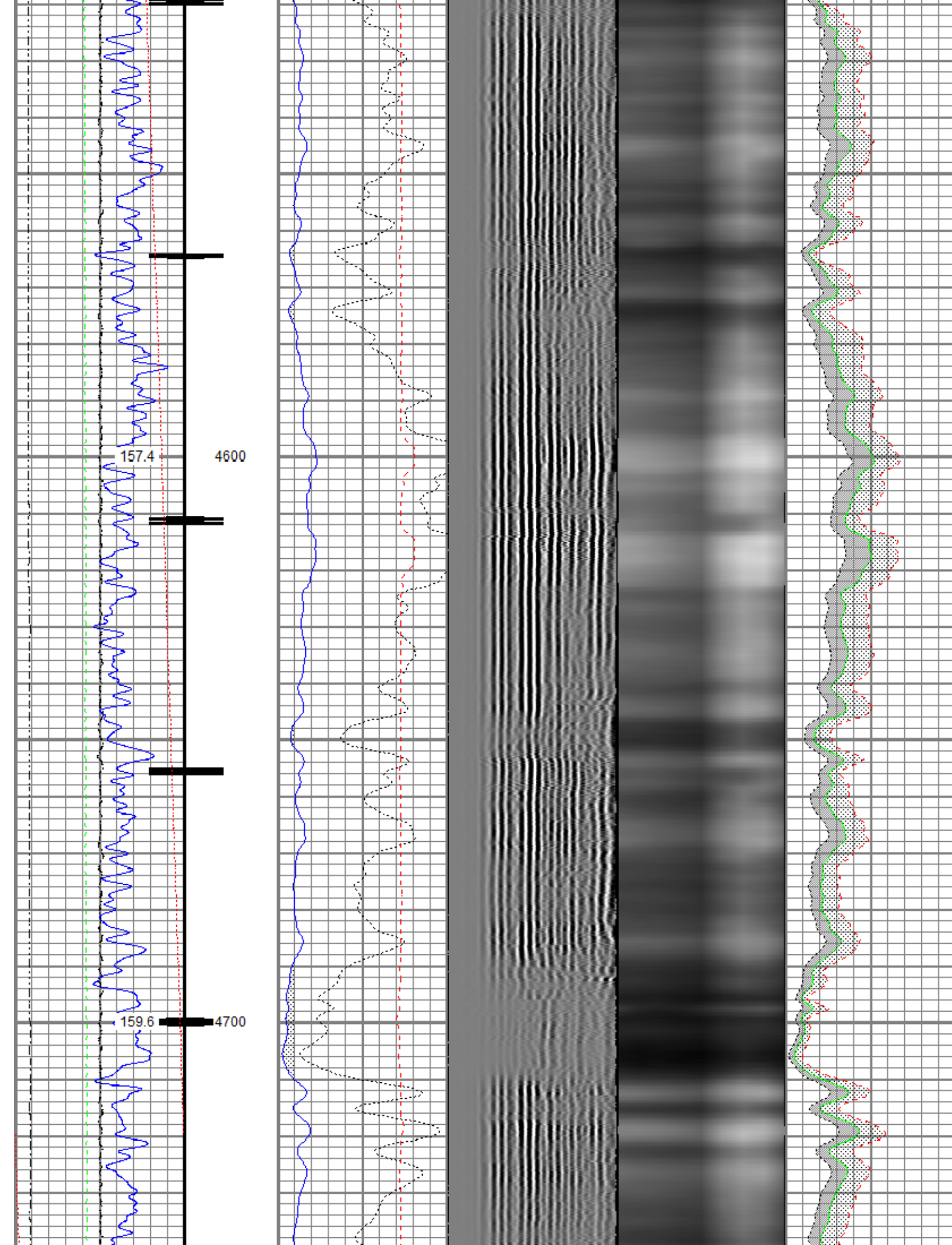


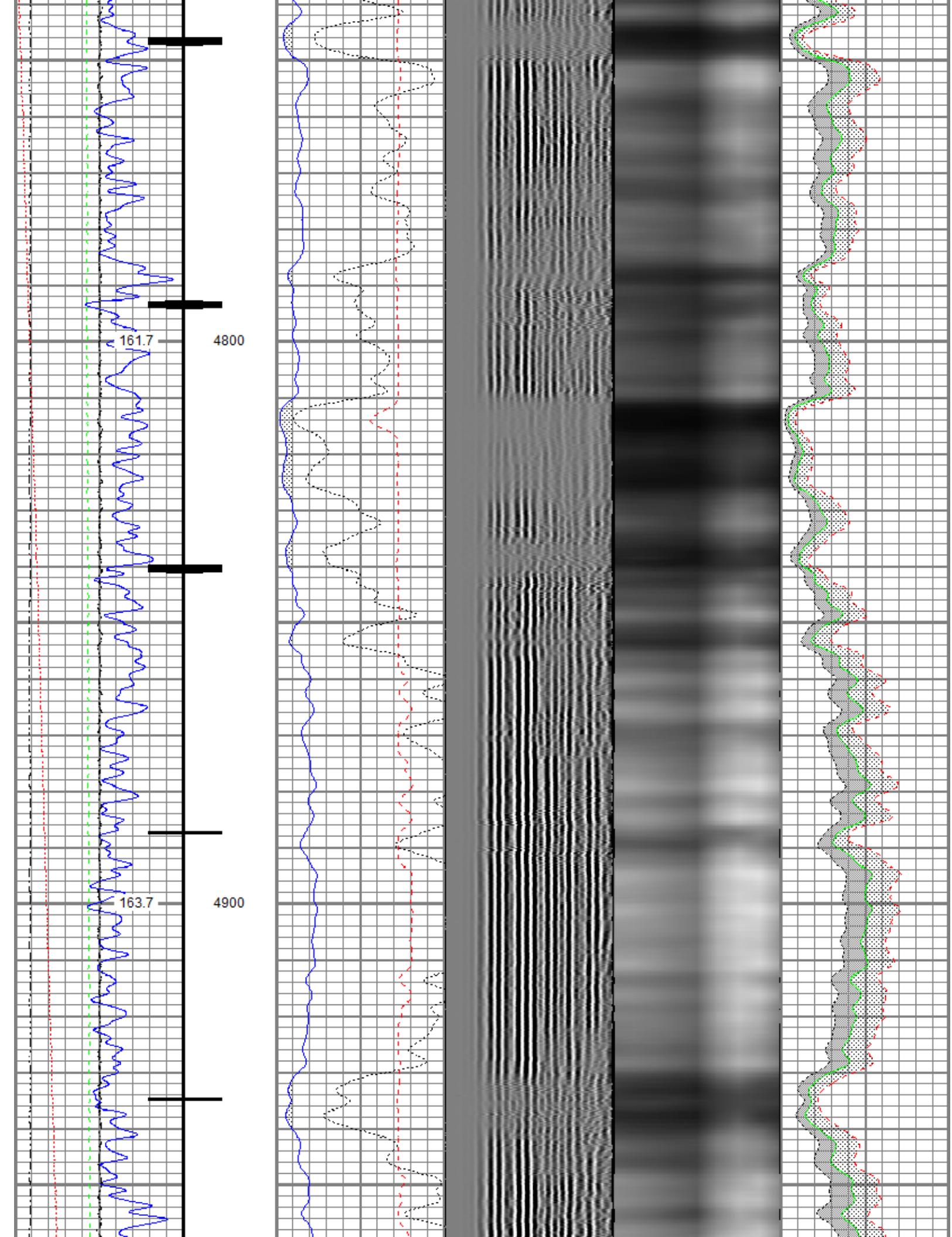


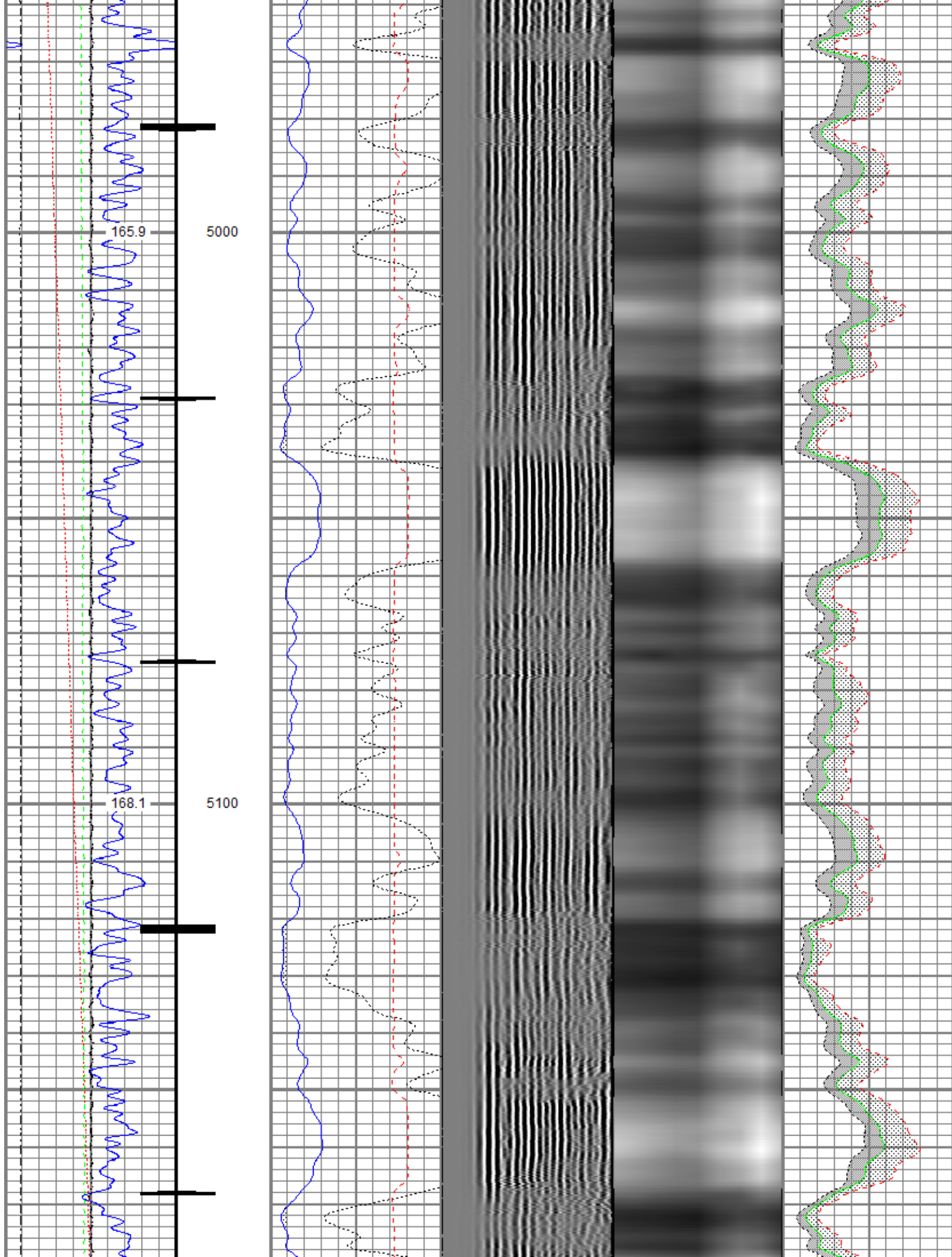


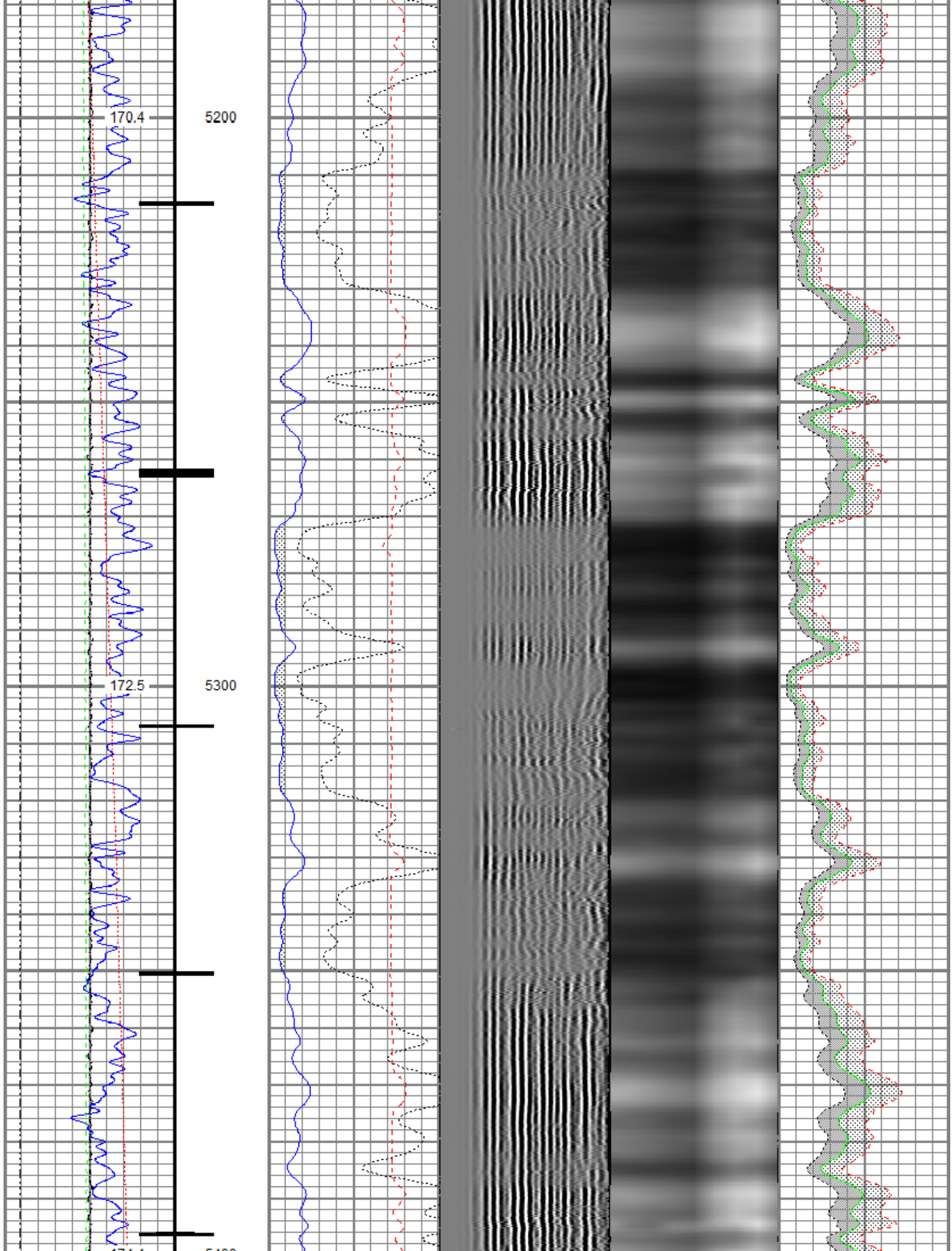


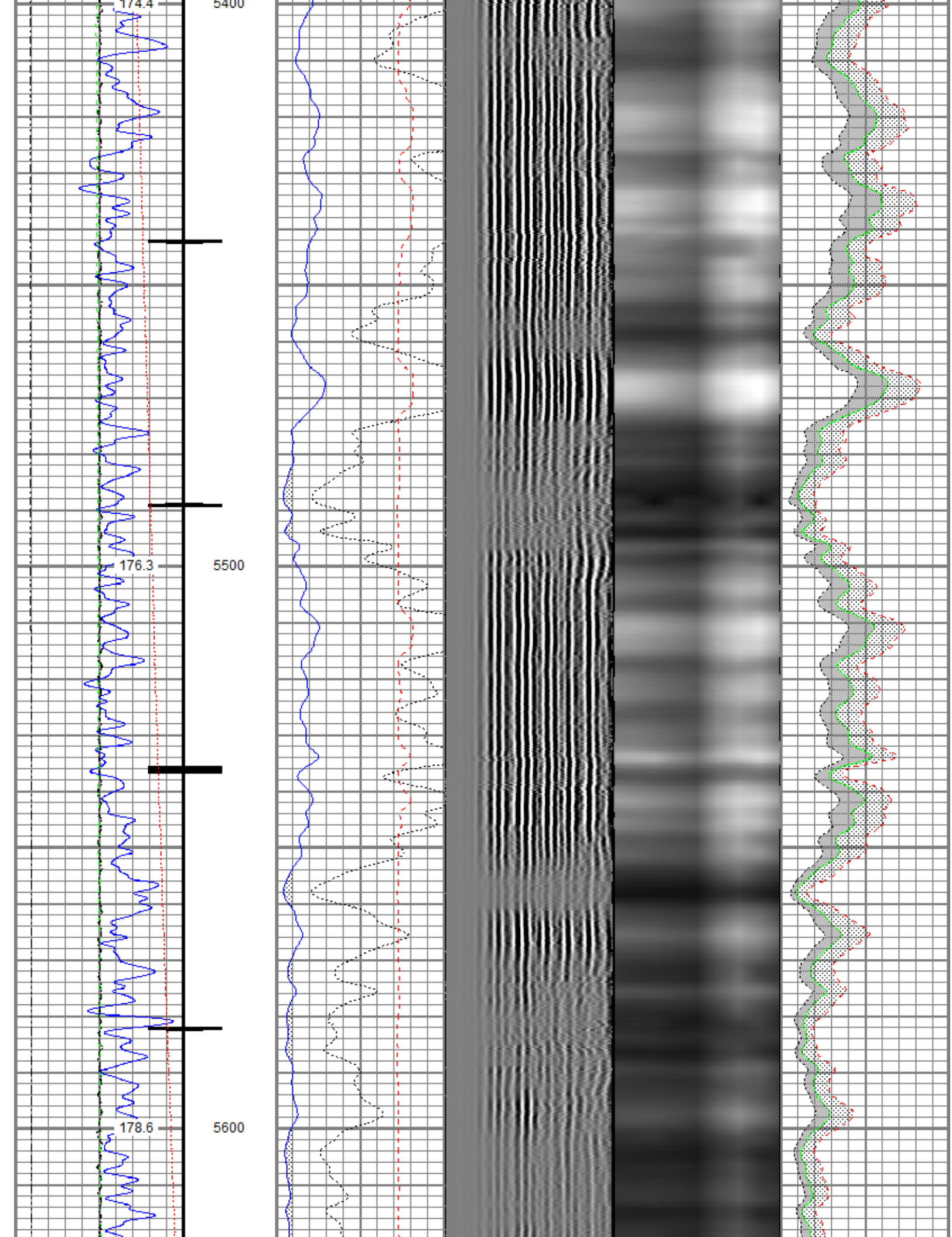


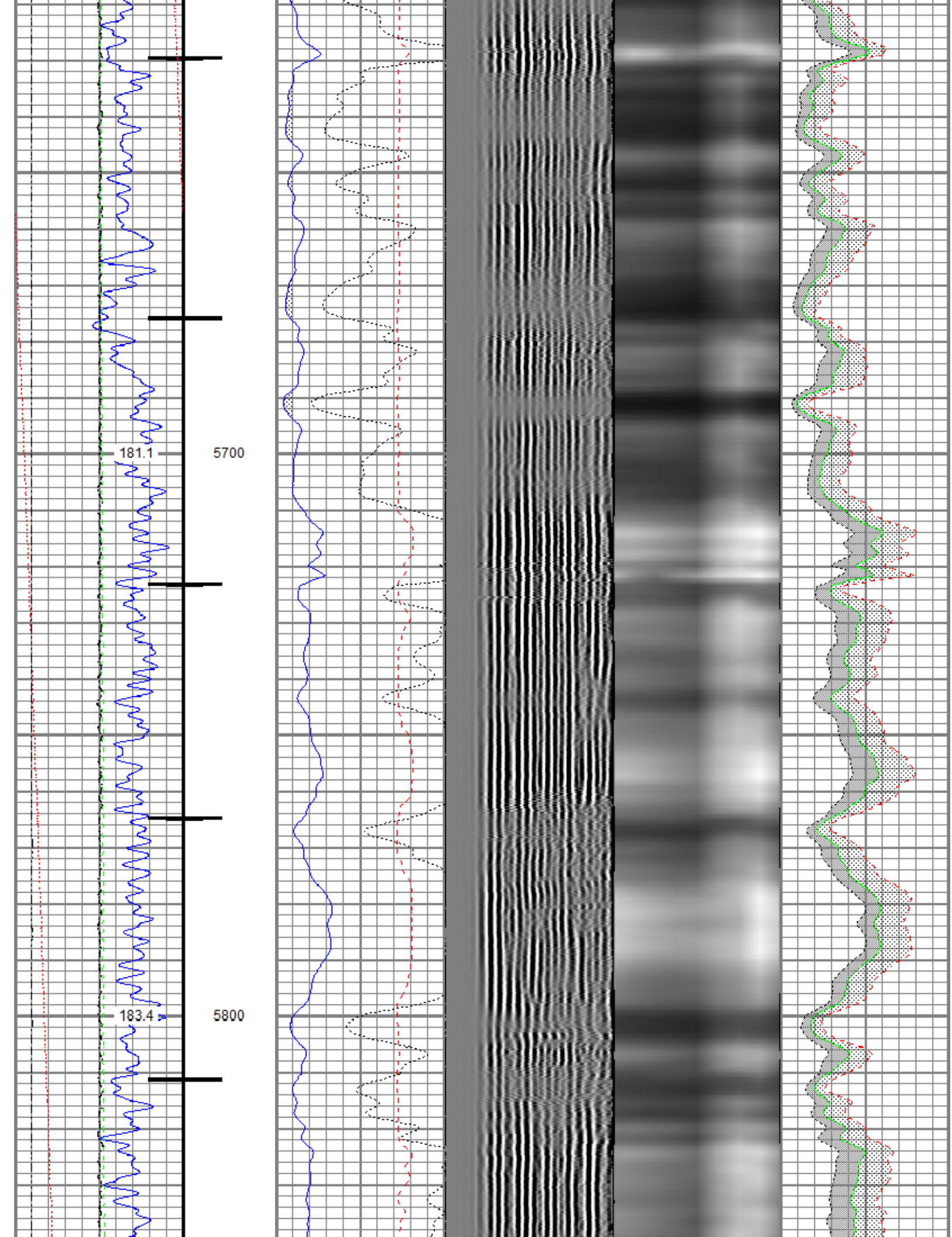


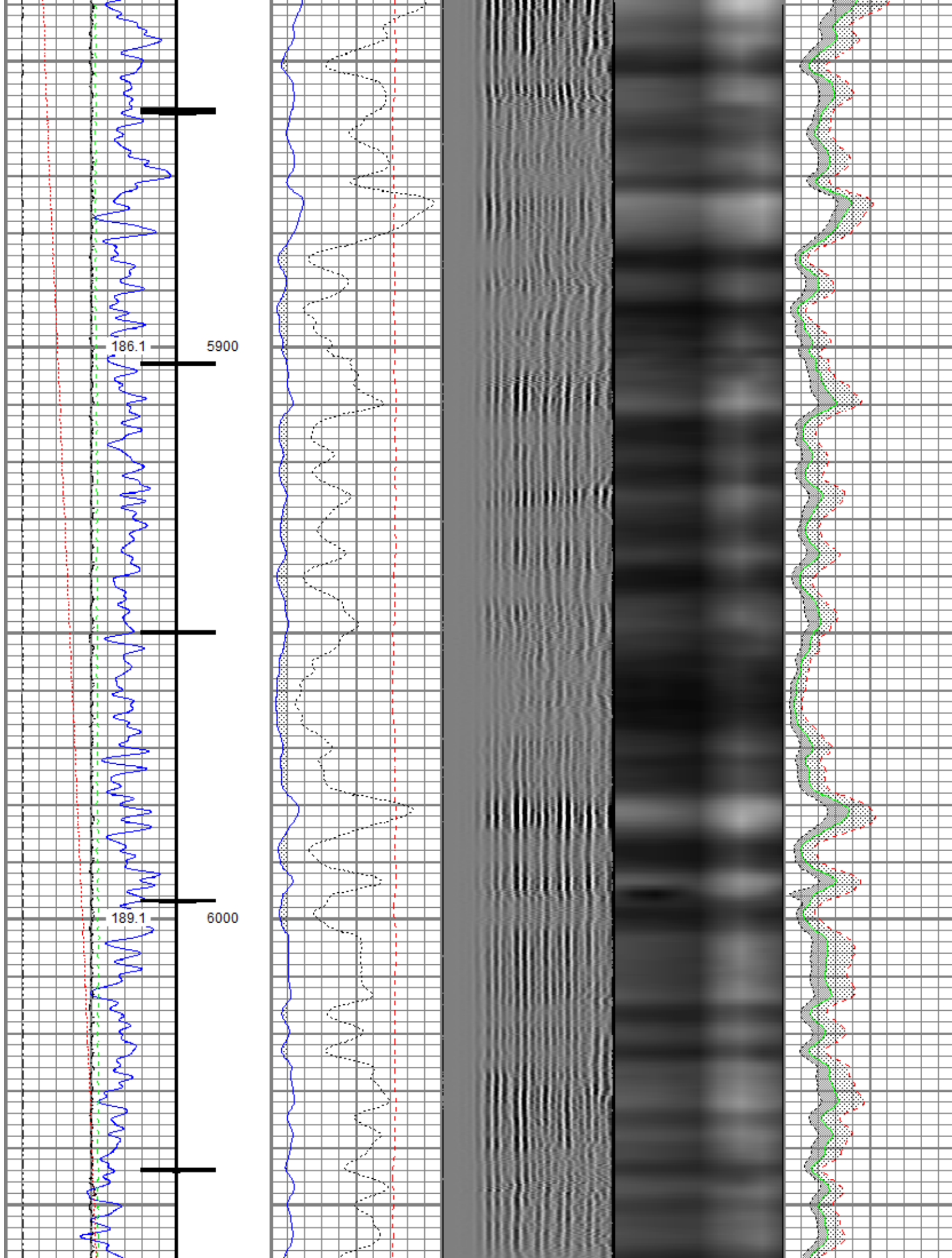


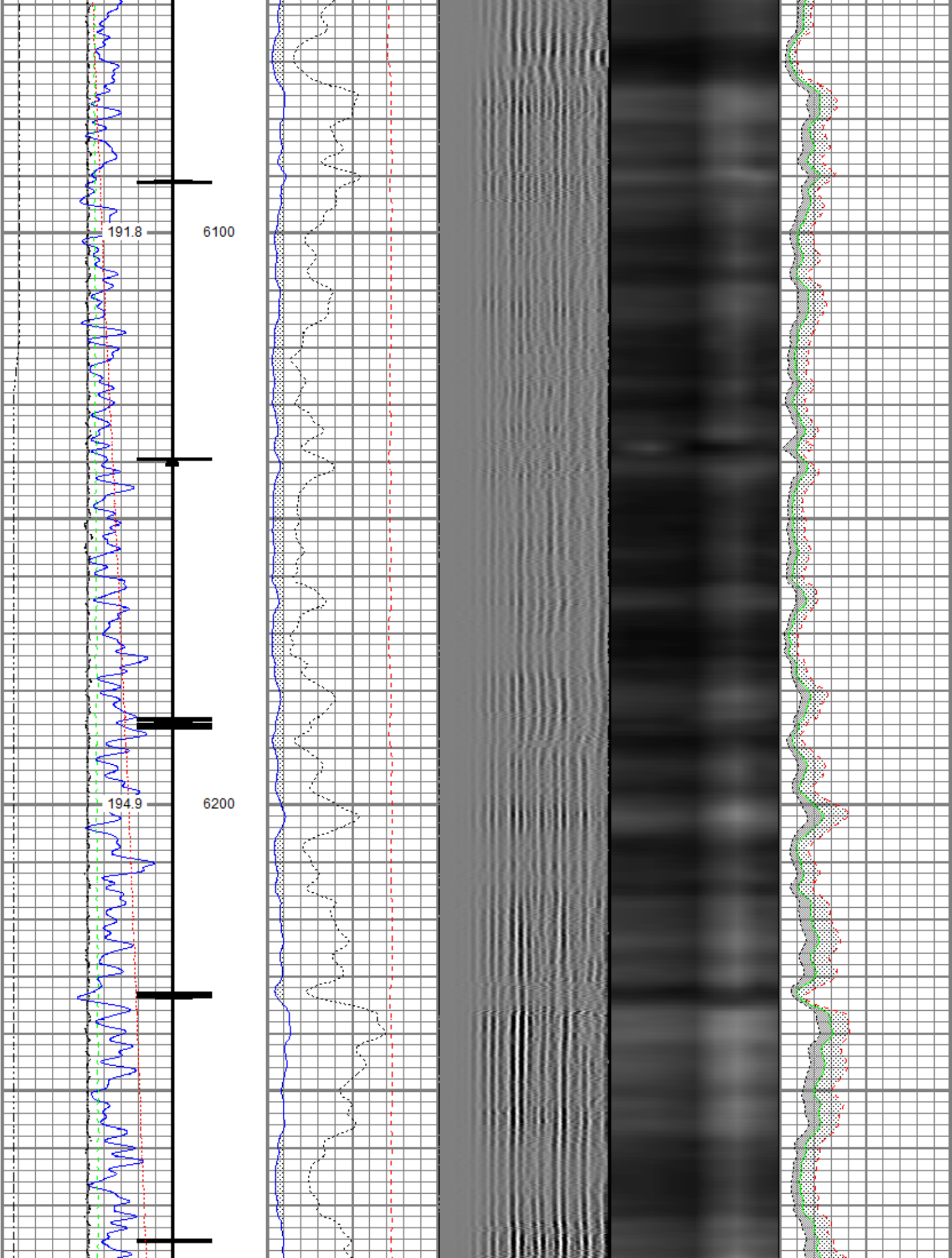


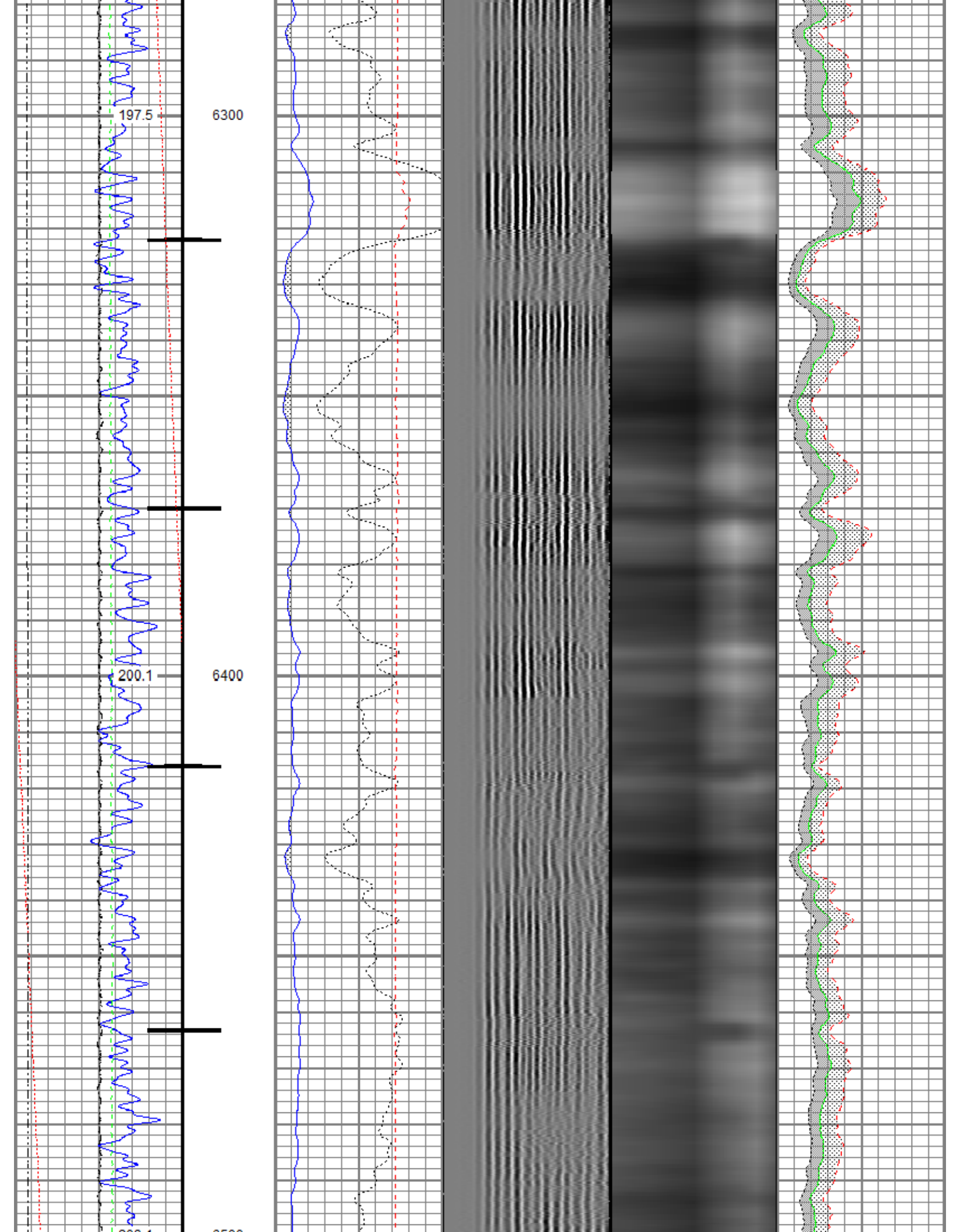


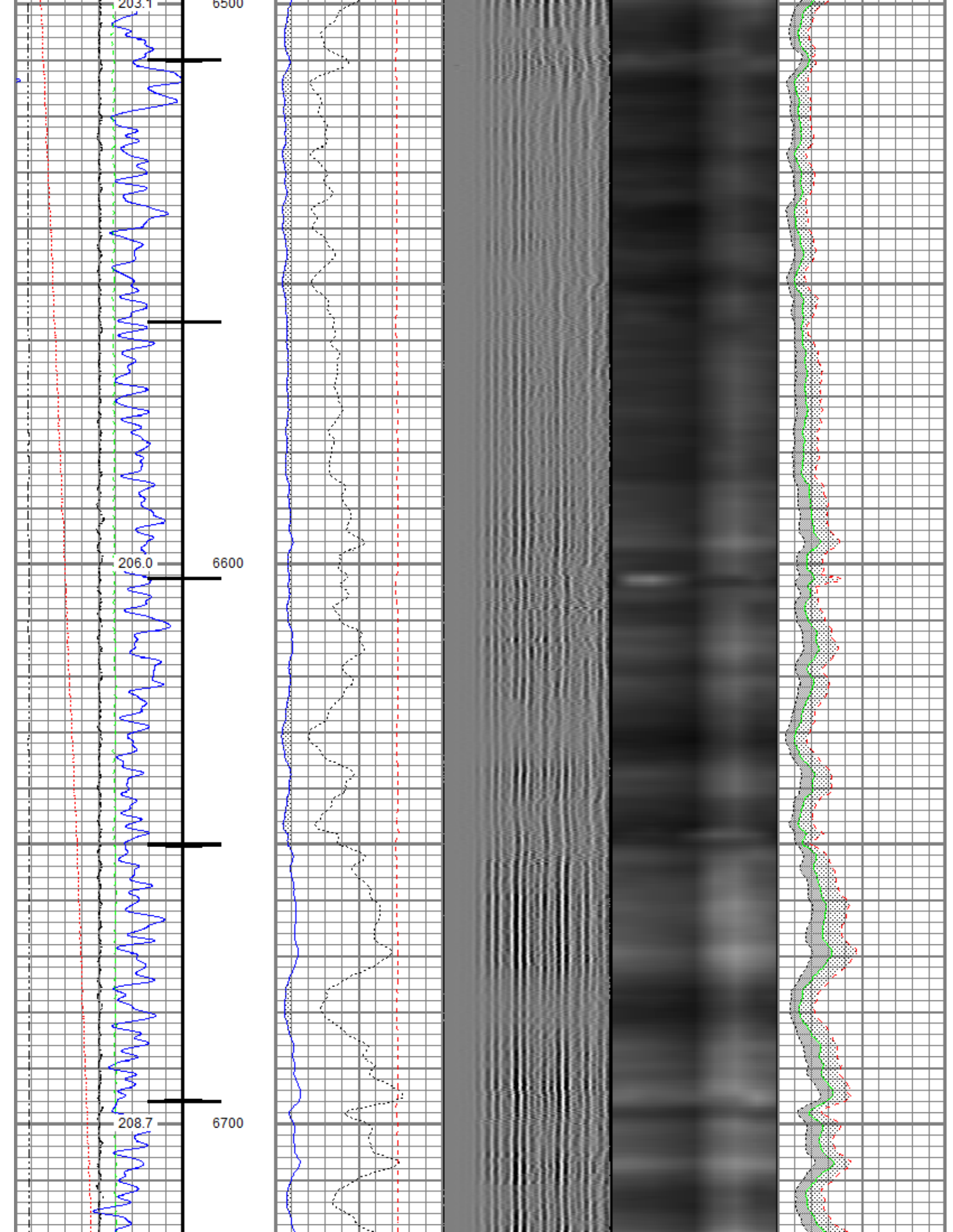


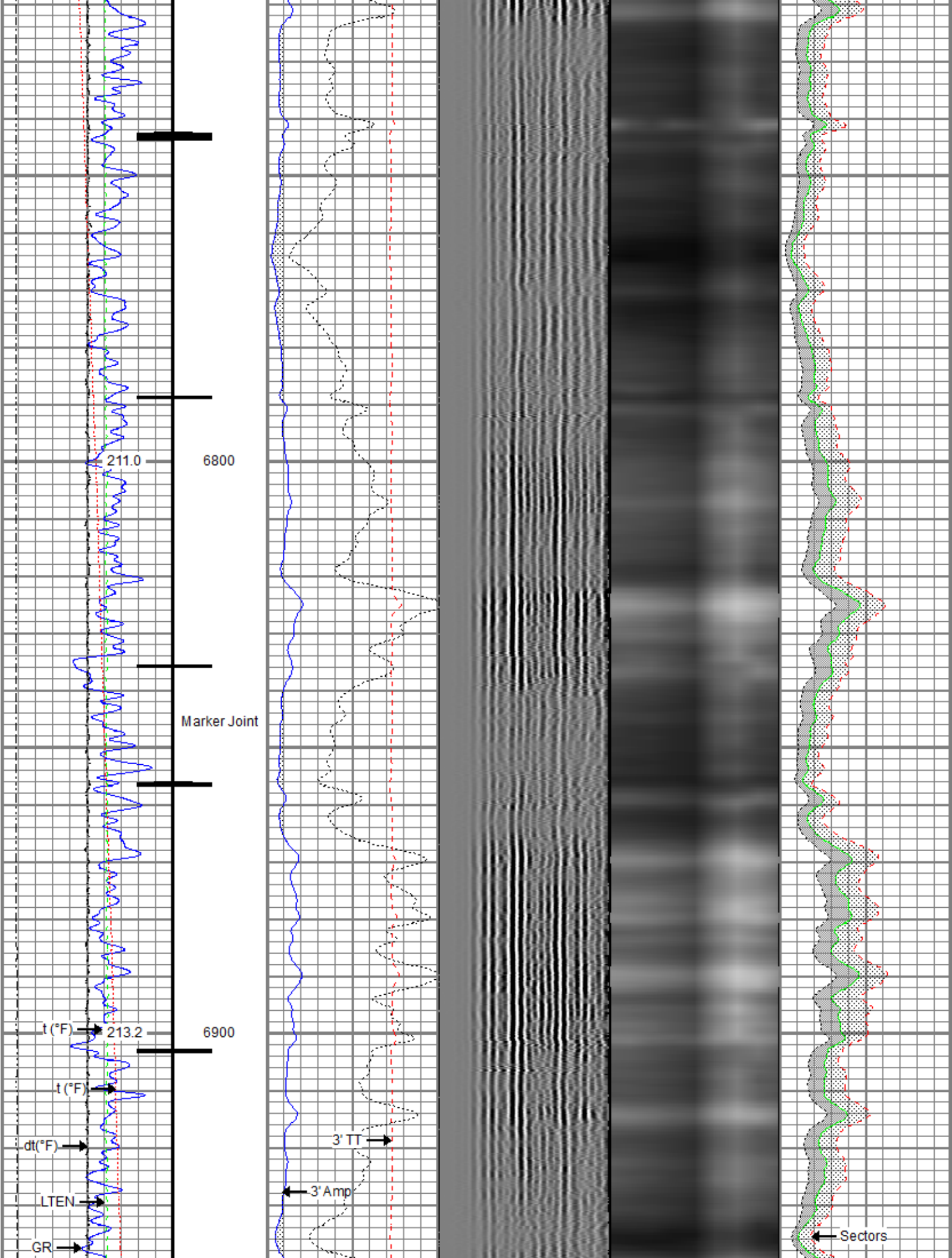


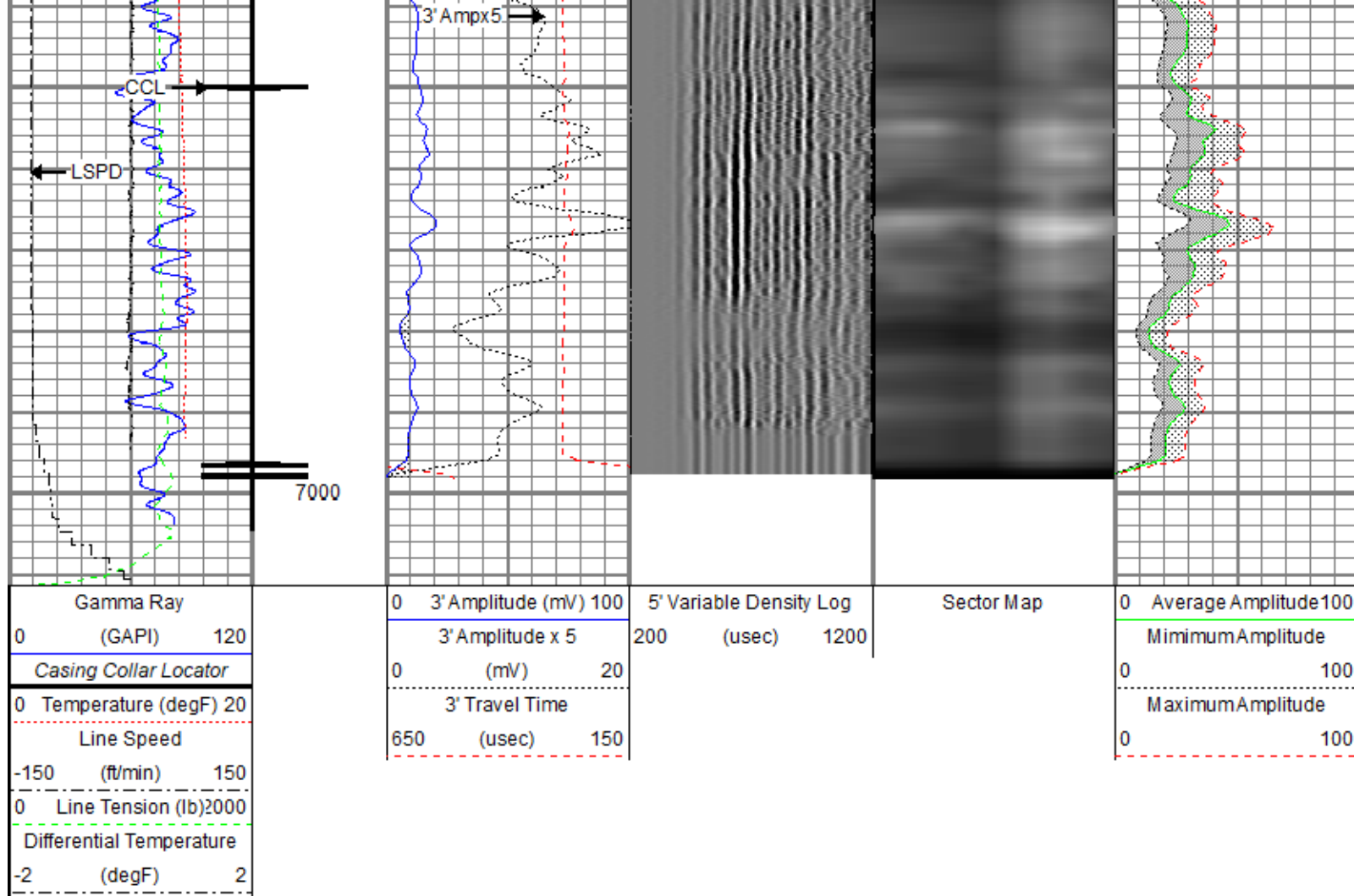








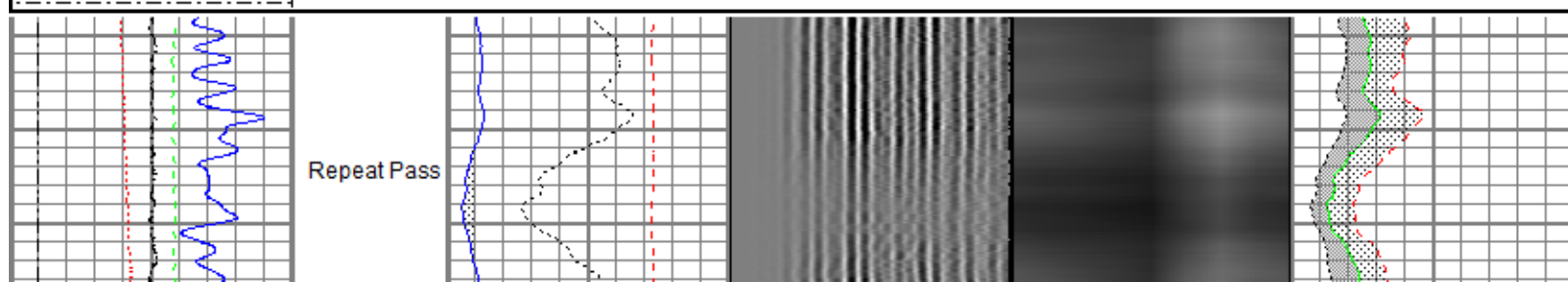
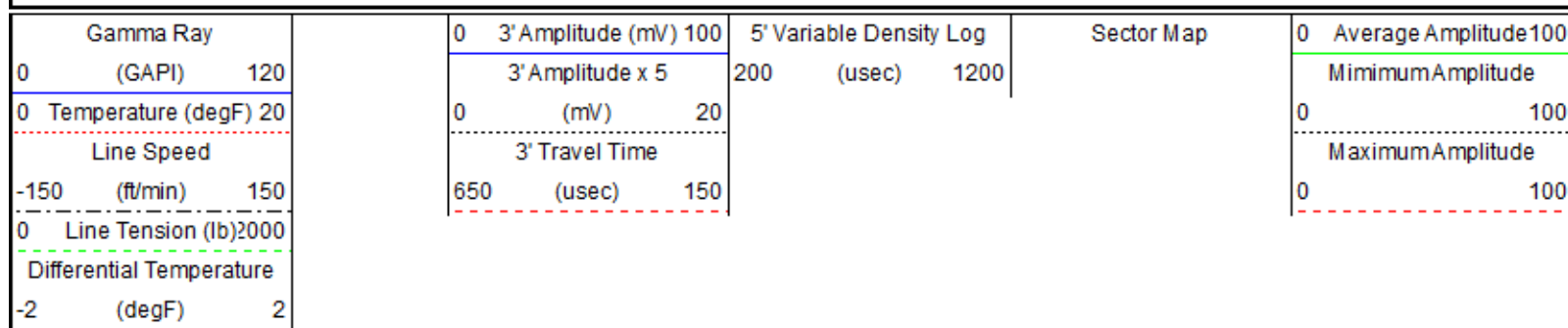


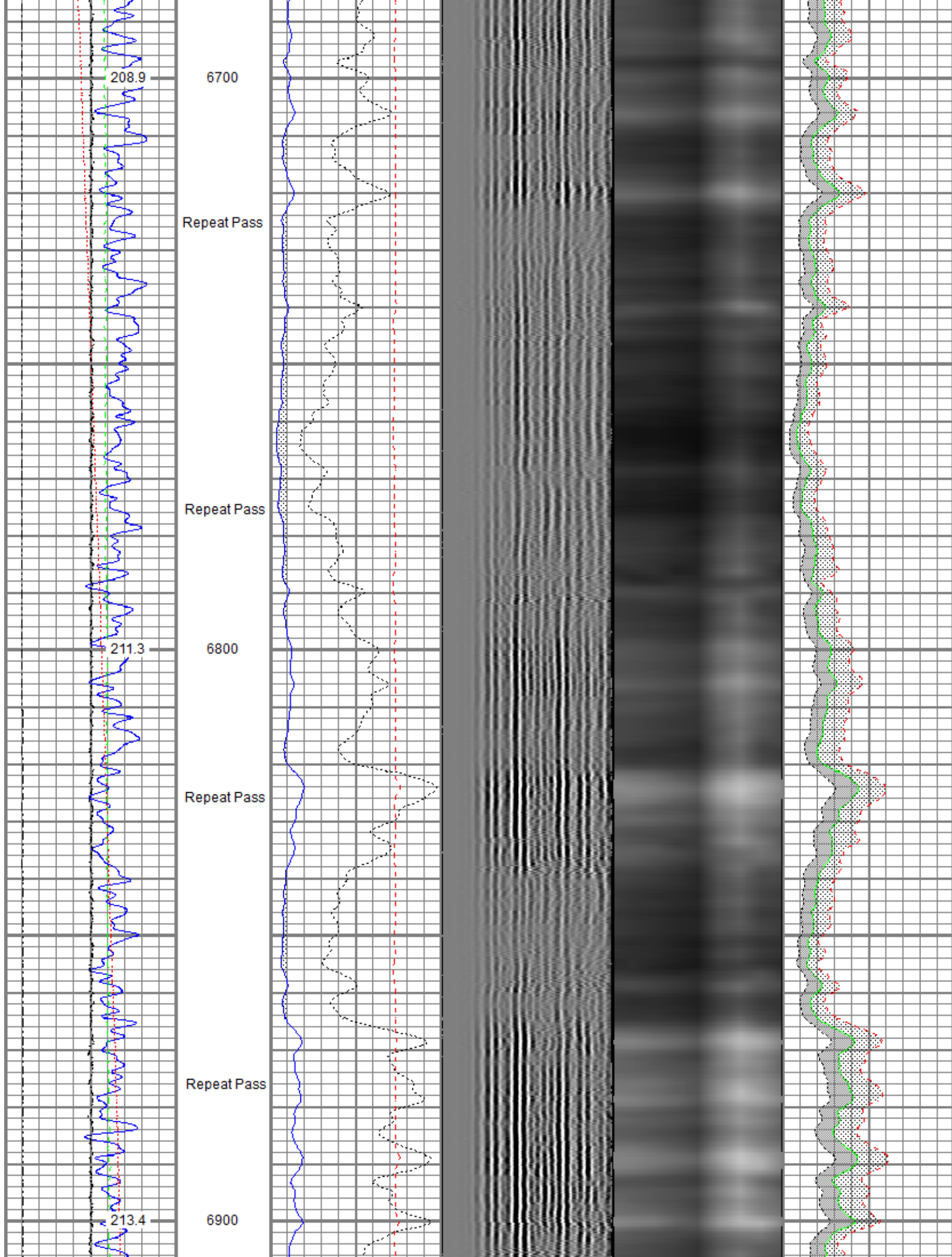


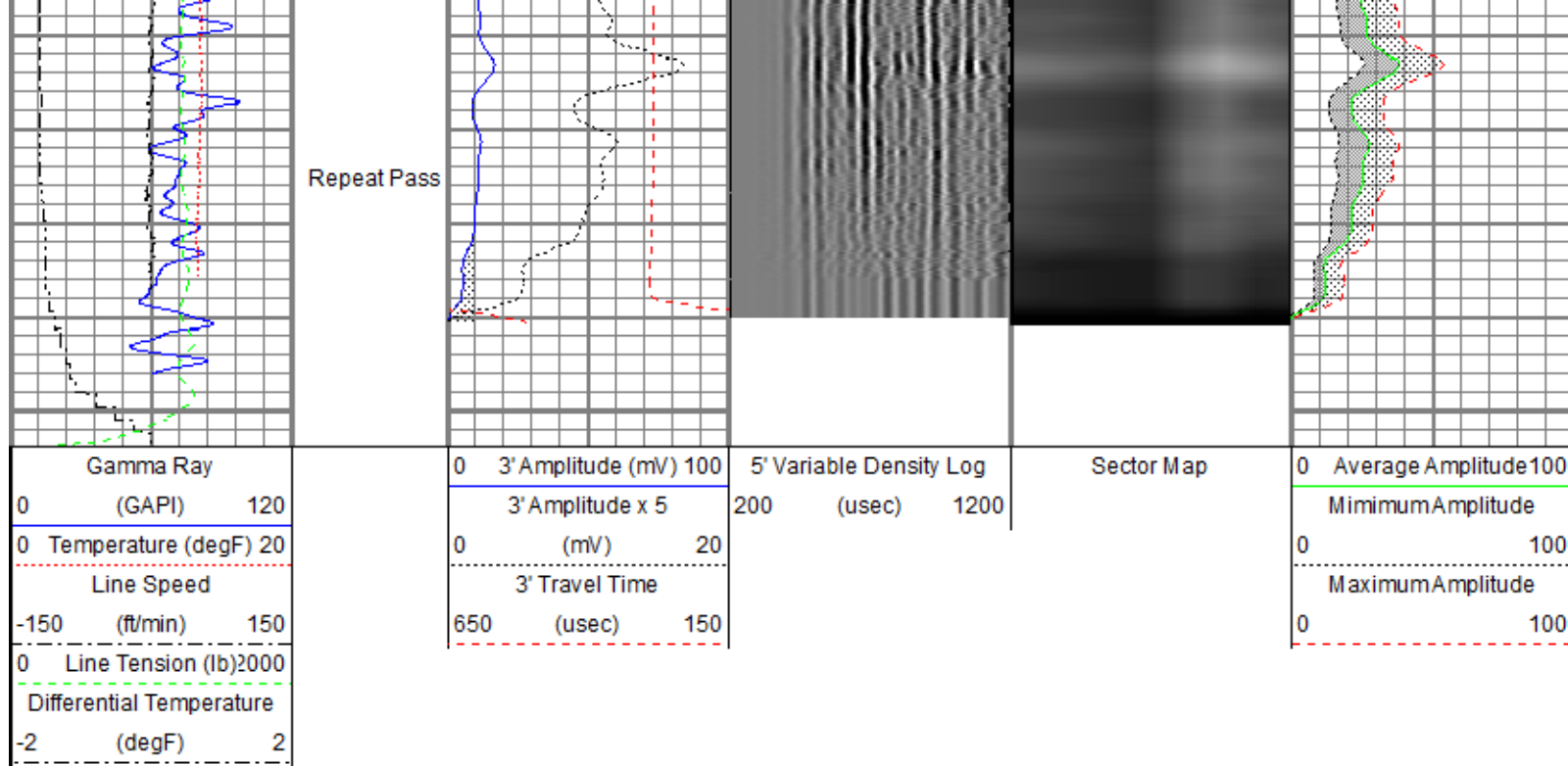
Repeat Pass

Recorded with 2500 PSI Surface Induced Pressure

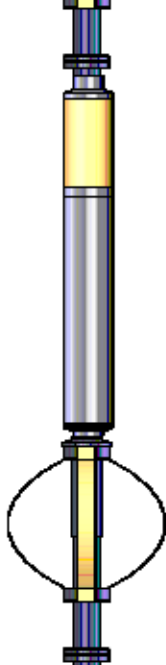
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 Dataset Pathname: repeat.2
 Presentation Format: ros_radri
 Dataset Creation: Thu Mar 15 10:48:43 2018
 Charted by: Depth in Feet scaled 1:240







Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			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
			Probe Radii-2750 RBT (FW0712-020) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
TEMP	16.75					
WVFS8	14.52					
WVFS7	14.52					
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		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00

CCL\$2	6.51		Probe GR-CCL-2750 GOB (FW1212-026) Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined	4.51	2.75	55.00
CCL\$1	6.51					
GR	5.26					
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Dataset: src energy_falken 31n-14b-s_rbl_03-14-18.db: field/well/run1/main.5 Total length: 23.57 ft Total weight: 223.60 lb O.D.: 2.75 in						

Calibration Report		
Database File	c:\programdata\warrior\data\src\falken 31n-14b-s\src energy_falken 31n-14b-s_rbl_03-14-18.db	
Dataset Pathname	main.5	
Dataset Creation	Thu Mar 15 10:19:55 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'	0.007	0.439	0.800	71.921	164.726	-0.353
CAL	0.006	0.621				
5'	0.007	0.495	0.800	71.921	145.671	-0.161
SUM						
S1	0.011	0.326	0.000	100.000	317.193	-3.387
S2	0.008	0.384	0.000	100.000	266.274	-2.153
S3	0.007	0.434	0.000	100.000	234.523	-1.726
S4	0.008	0.452	0.000	100.000	225.005	-1.721
S5	0.008	0.434	0.000	100.000	234.398	-1.833

S6	0.008	0.387	0.000	100.000	263.478	-2.037
S7	0.008	0.347	0.000	100.000	295.088	-2.484
S8	0.008	0.239	0.000	100.000	432.552	-3.280

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



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County: Weld
State: Colorado