



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company SRC Energy Inc
Well Falken 30N-14B-S
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-45111
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'

Company SRC Energy Inc
Well Falken 30N-14B-S
Field Wattenberg
County Weld
State Colorado

Date	10-MAR-2018	Four		
Run Number		13385 FT (GL)		
Depth Driller		6725 FT		
Depth Logger		6718 FT		
Bottom Logged Interval		Surface		
Top Log Interval		8.5"		
Open Hole Size		Water		
Type Fluid		Density / Viscosity		
		8.34 lb/gal		
		211°F		
Estimated Cement Top		See Log		
Max. Recorded Temp.		ROA		
Time Well Ready		1550		
Time Logger on Bottom		HD-325		
Equipment Number		Fort Lupton, CO		
Location		C. Bryan		
Recorded By		Shane Hart		
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

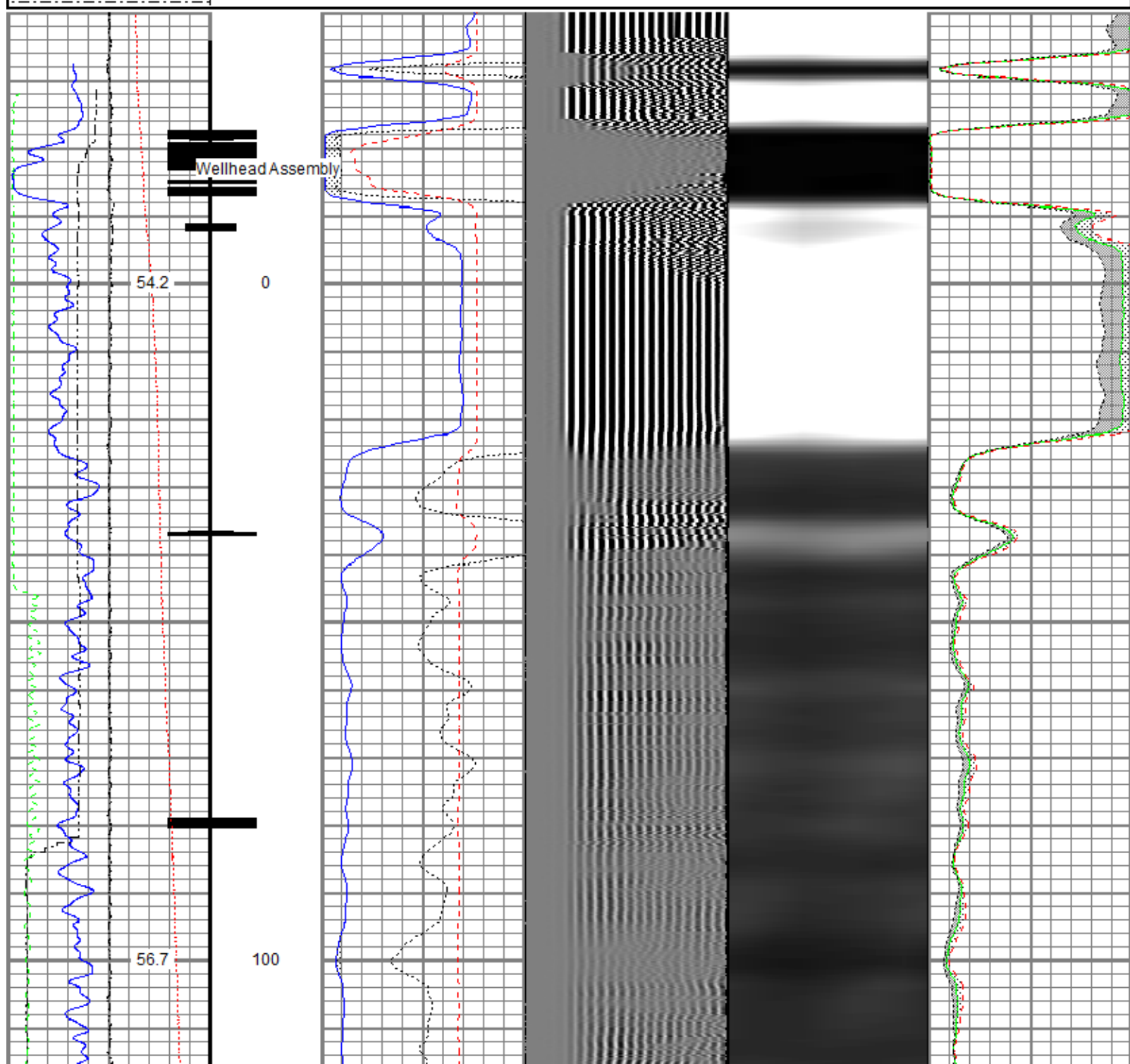
Log ran as per customer request
Log measured from Ground Level at 0 FT
Depth referenced to Casing Tally reported Marker Joint at 6650 FT
Adjusted -18 FT to correlate with Marker Joint
Log ran from deep as possible to Surface
Log ran with 2500 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations
Thank you for choosing Reliance Oilfield Services, LLC!!

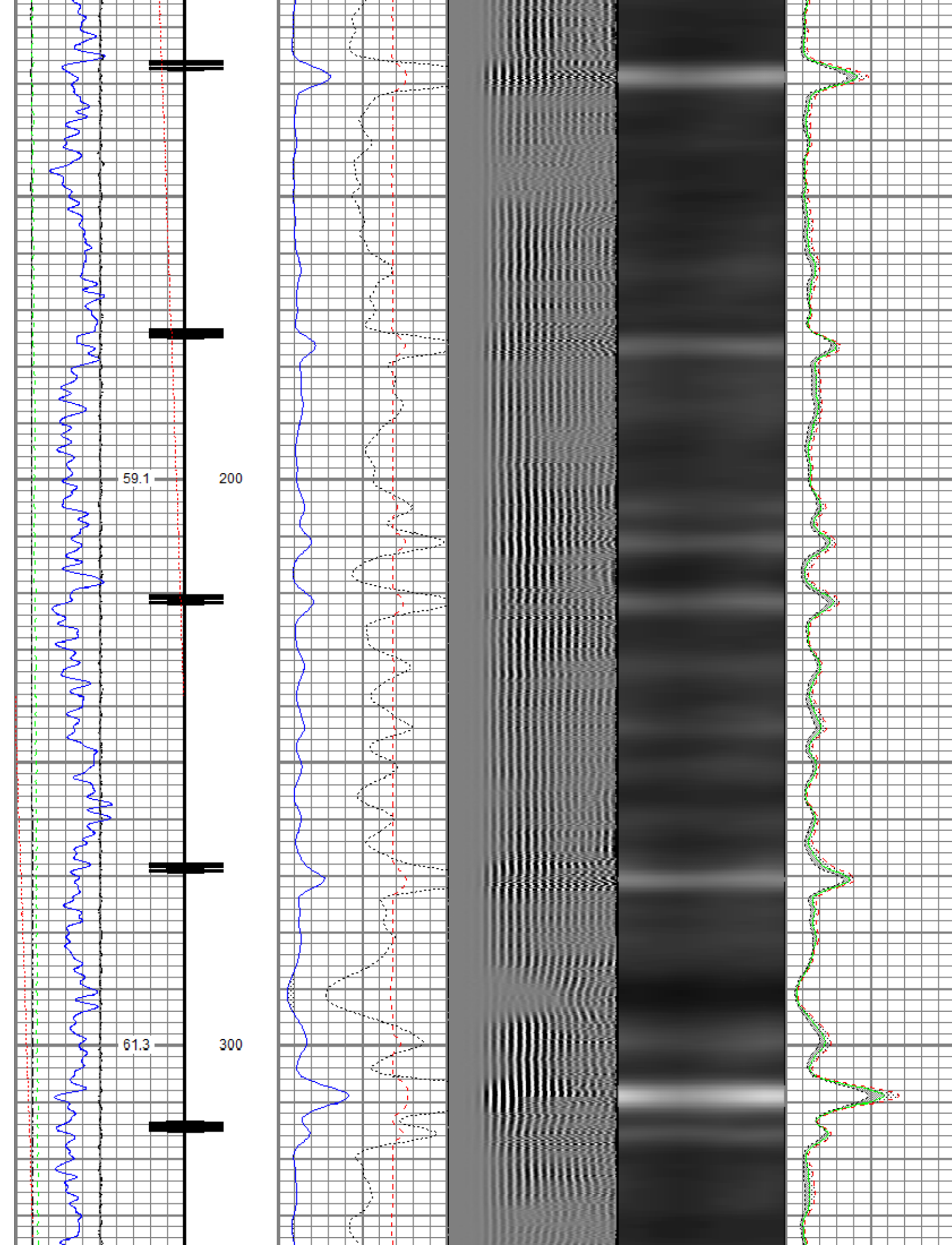
Main Pass

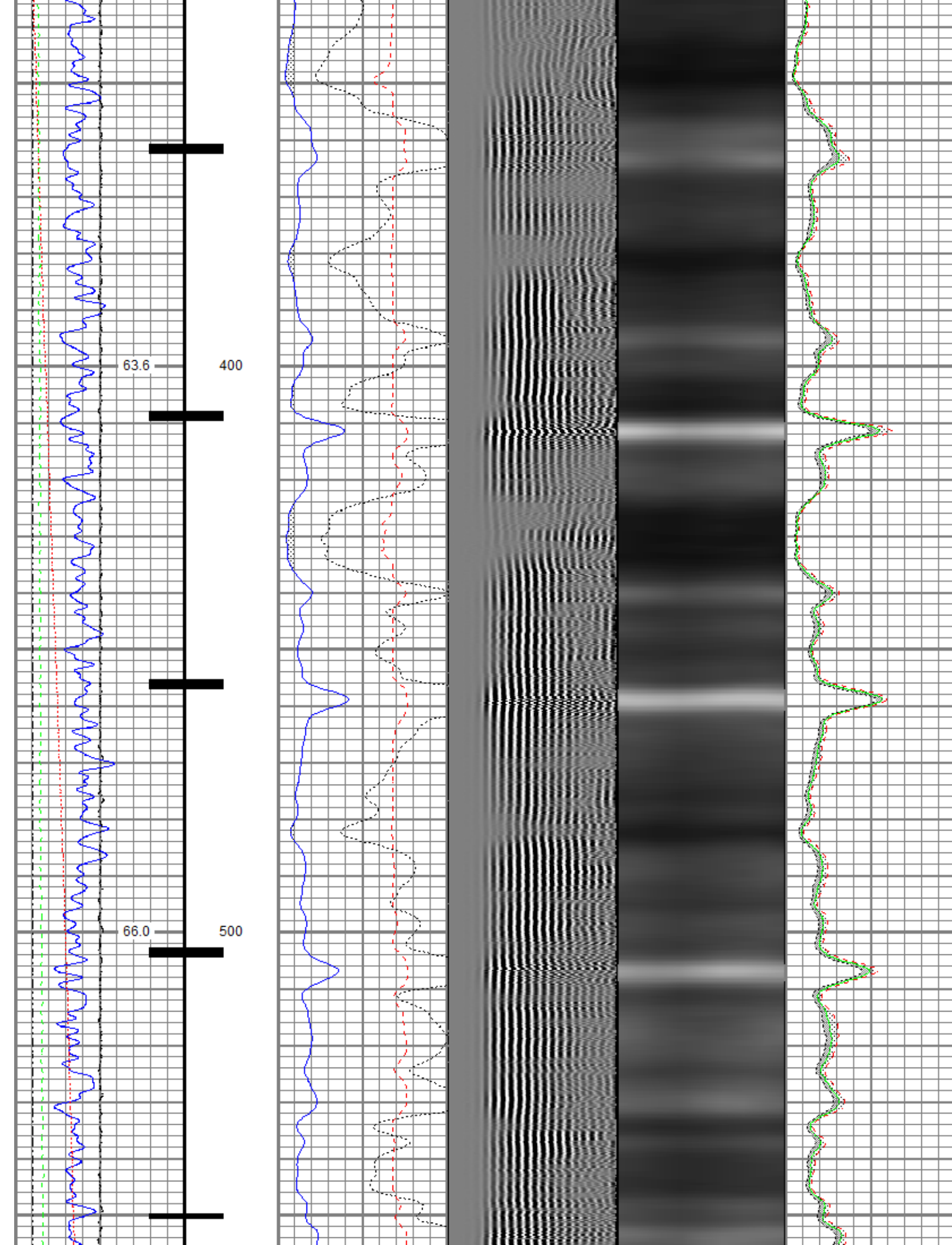


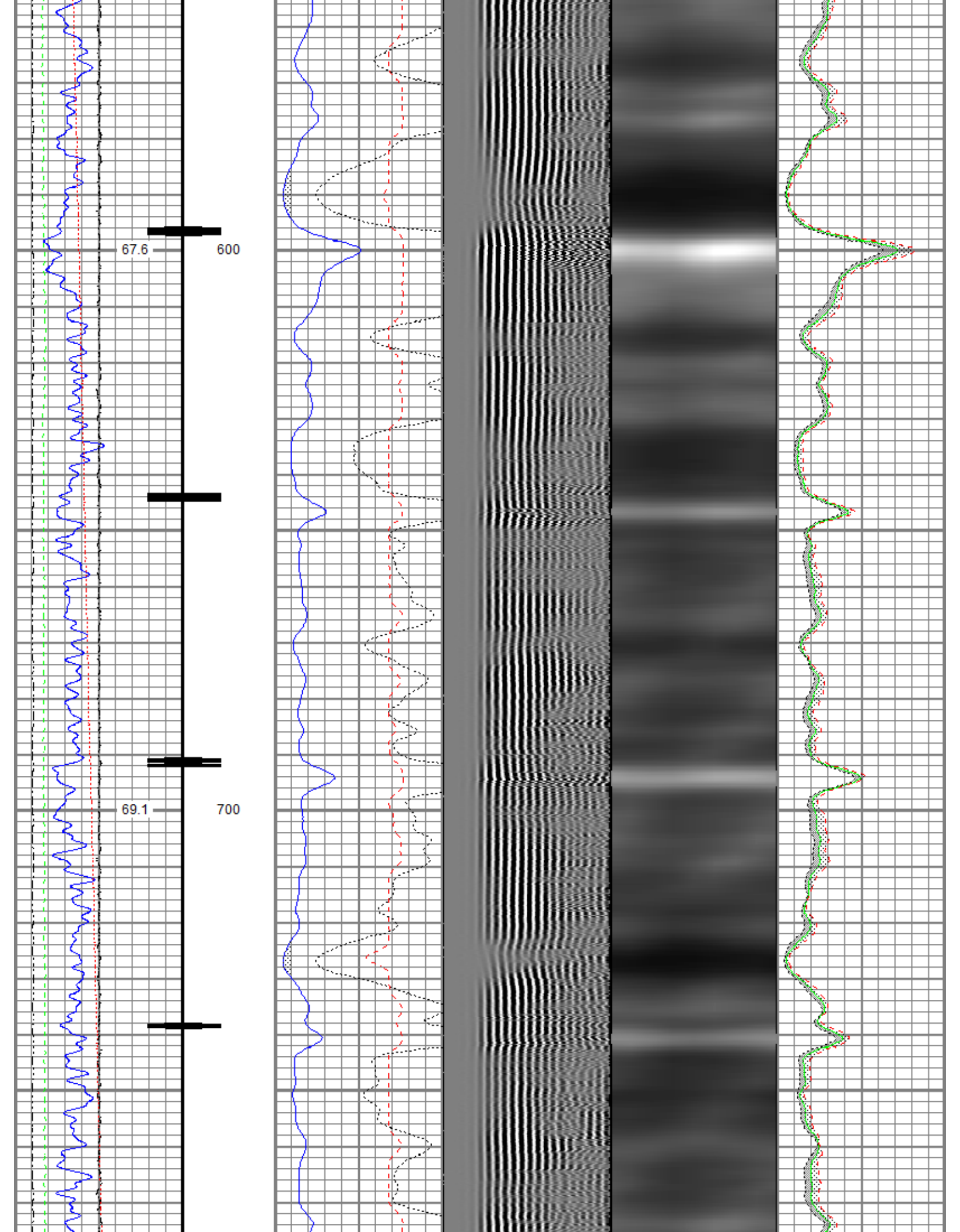
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 Dataset Pathname main
 Presentation Format ros_radri
 Dataset Creation Sat Mar 10 16:50:46 2018
 Charted by Depth in Feet scaled 1:240

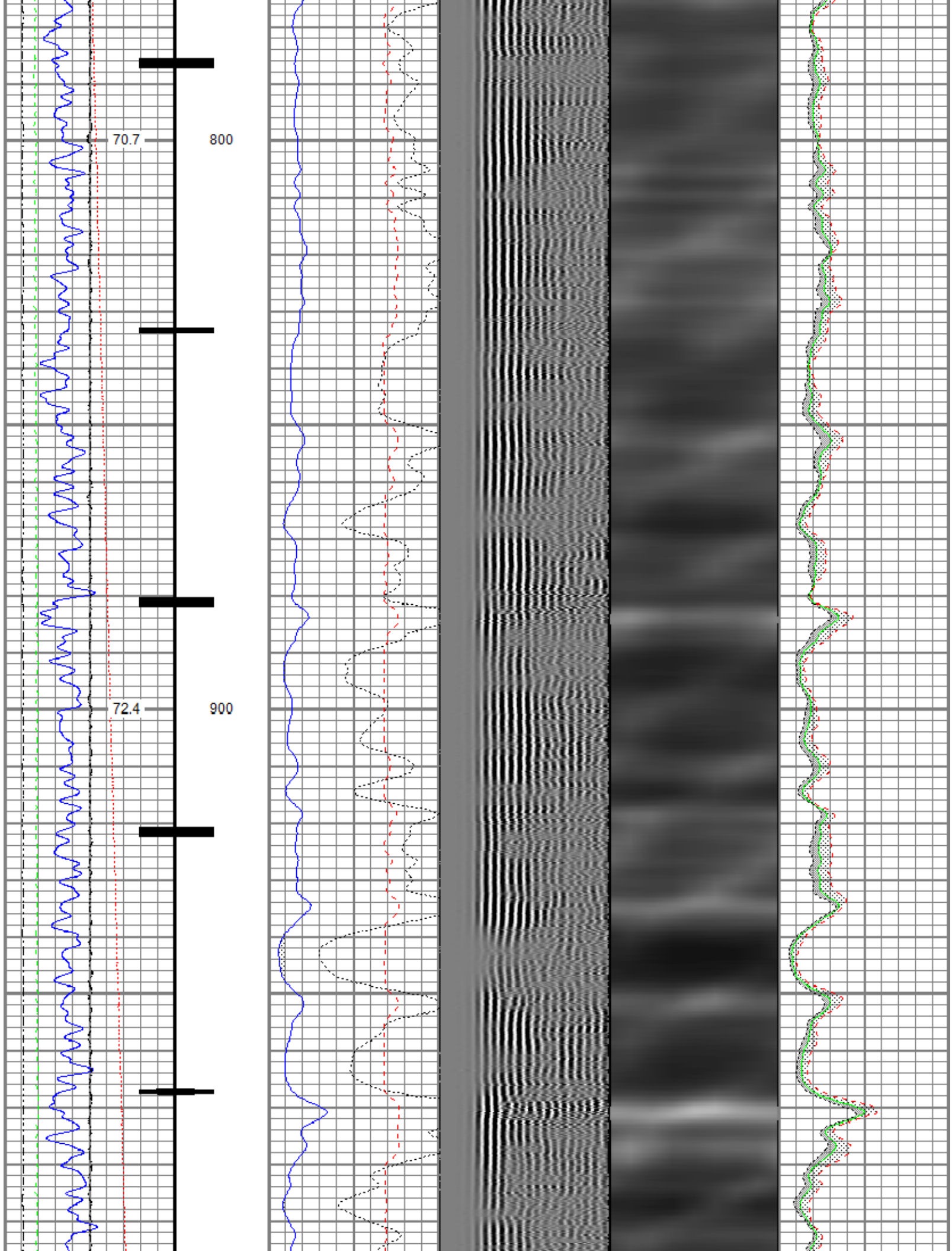
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150						
Line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

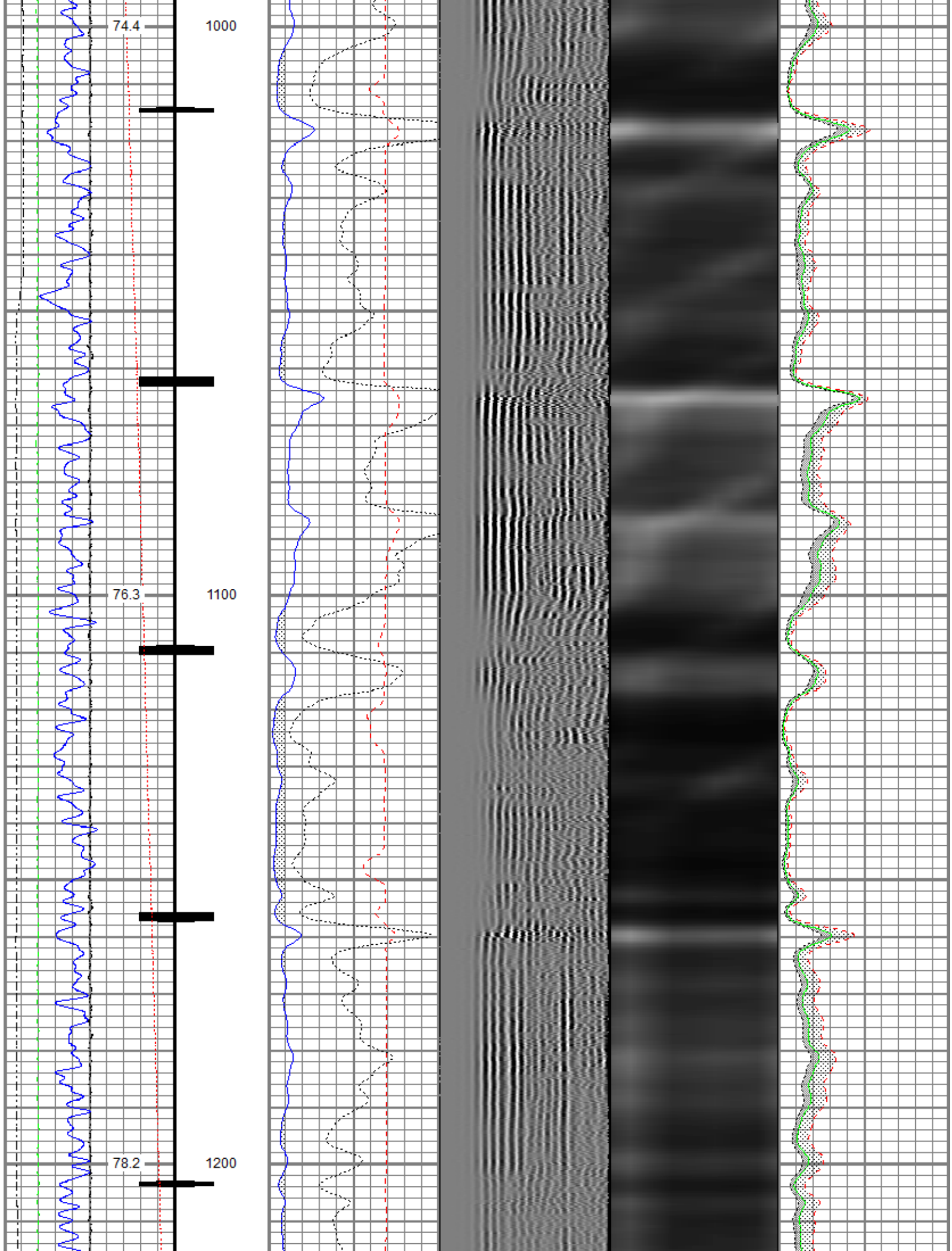


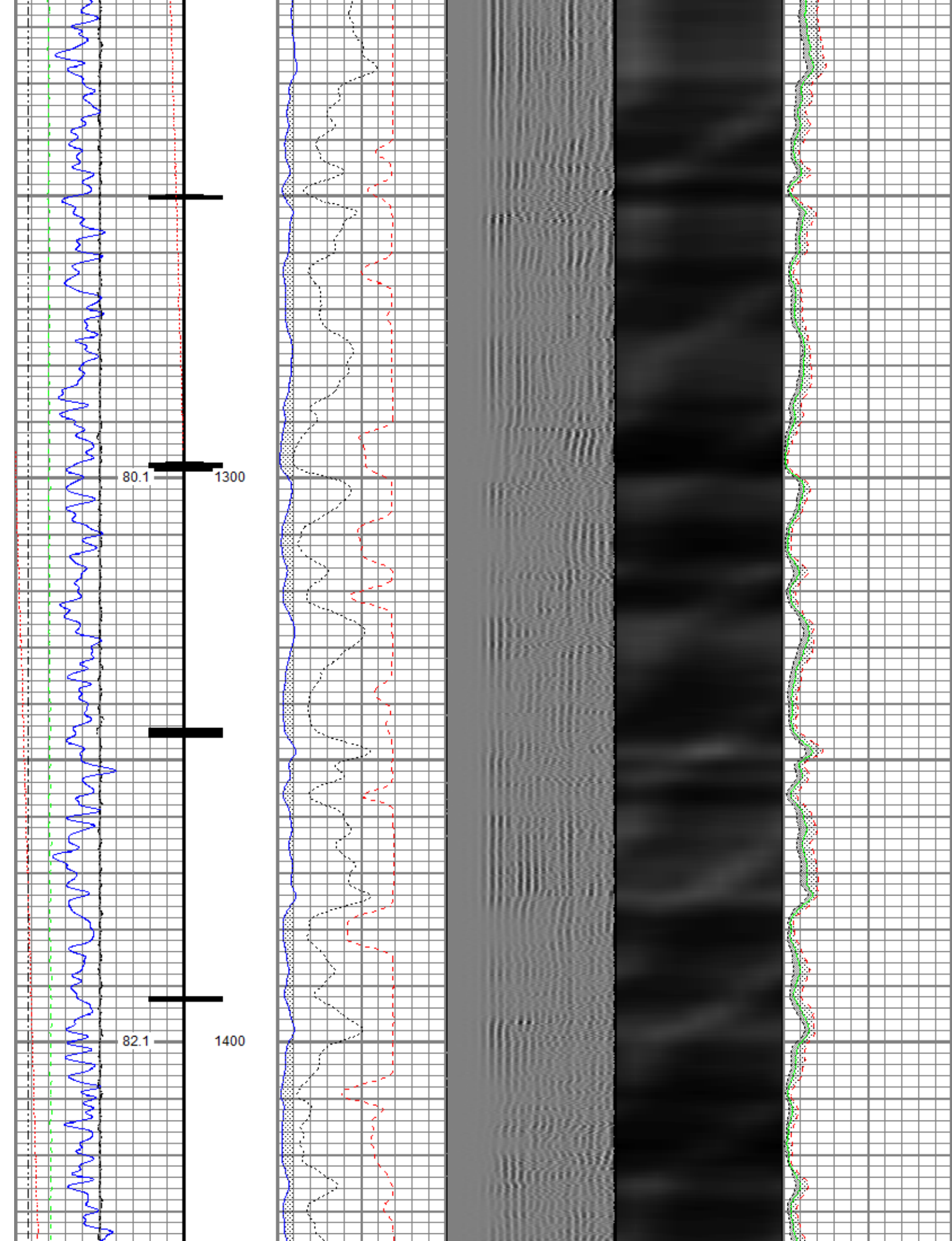


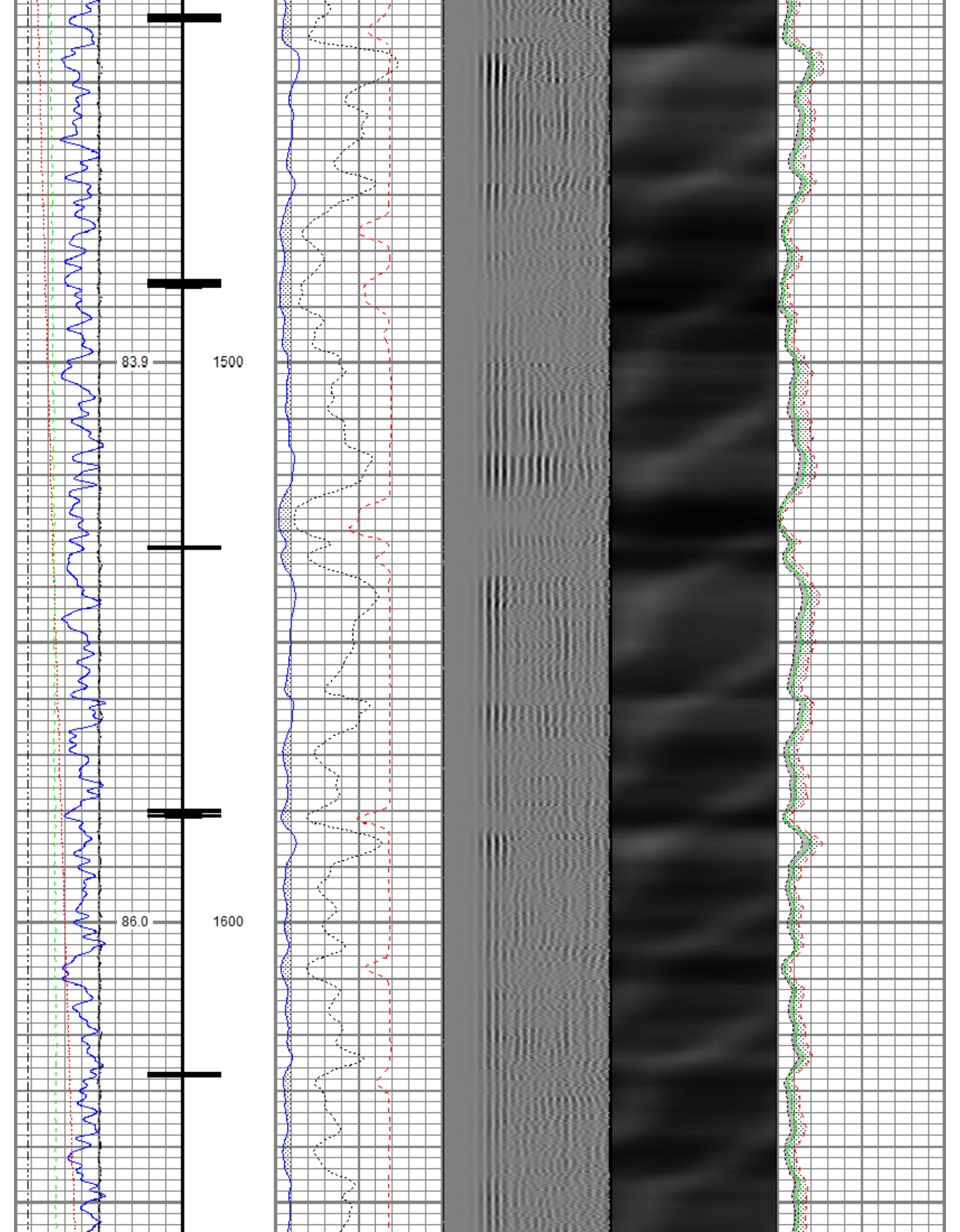


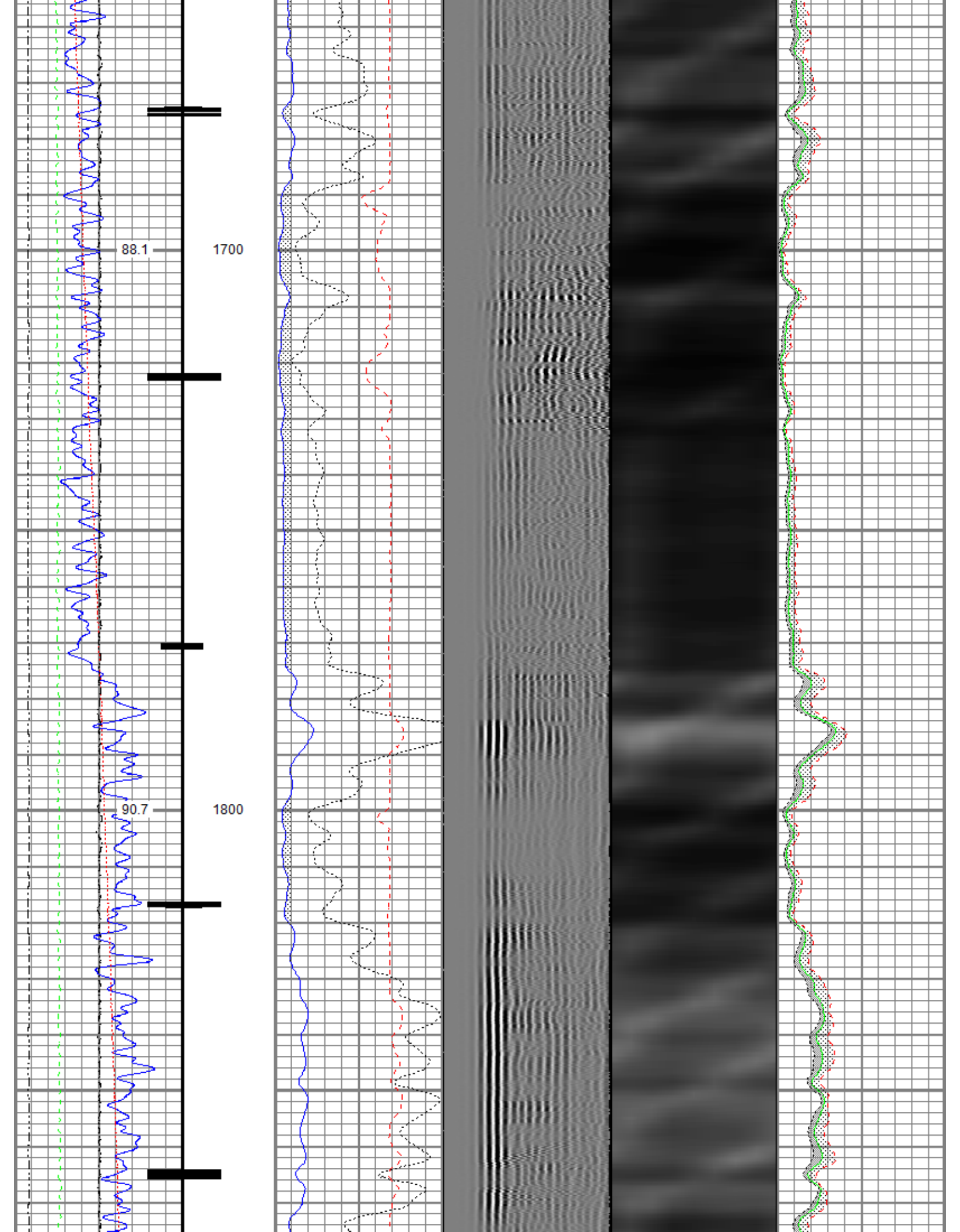


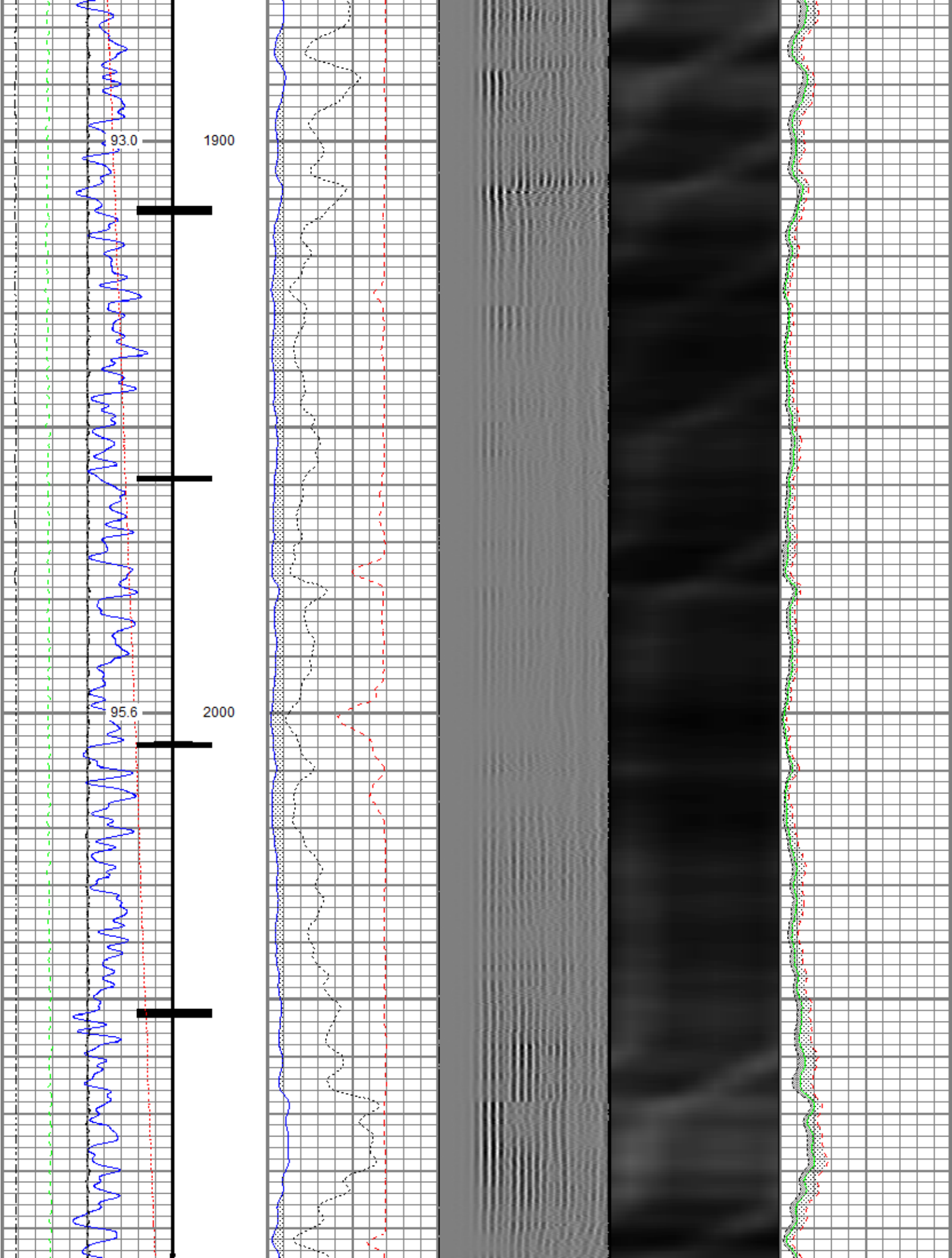


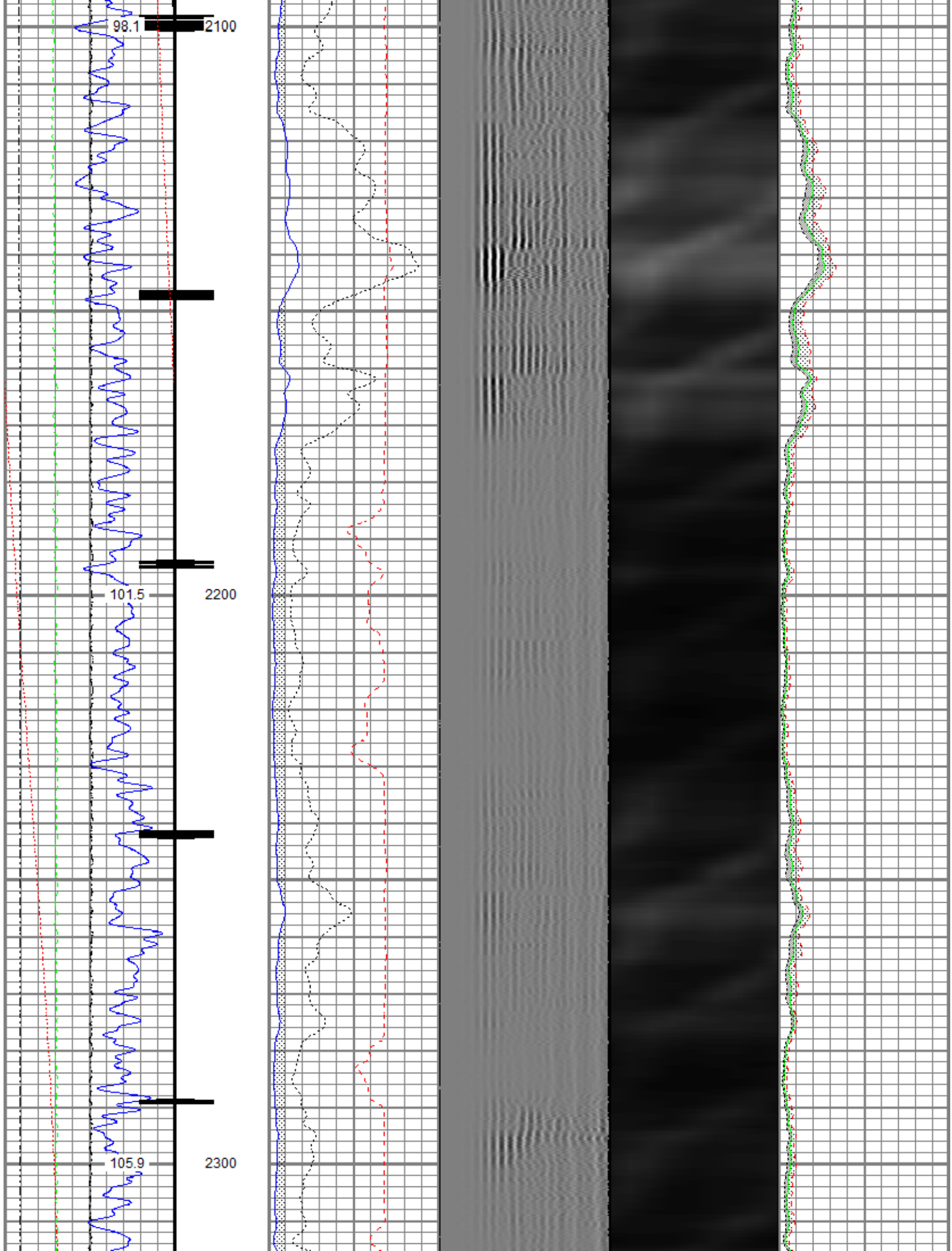


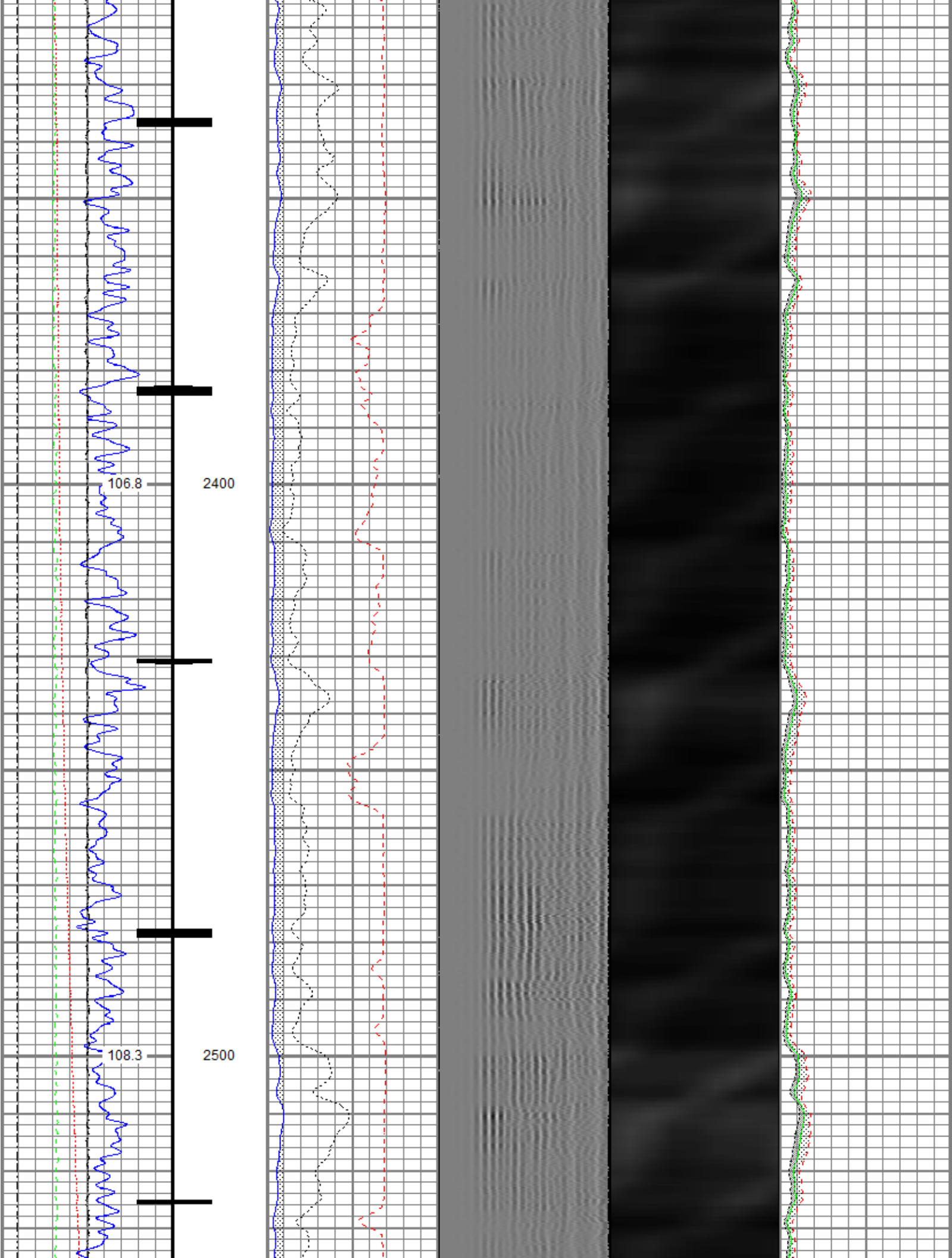


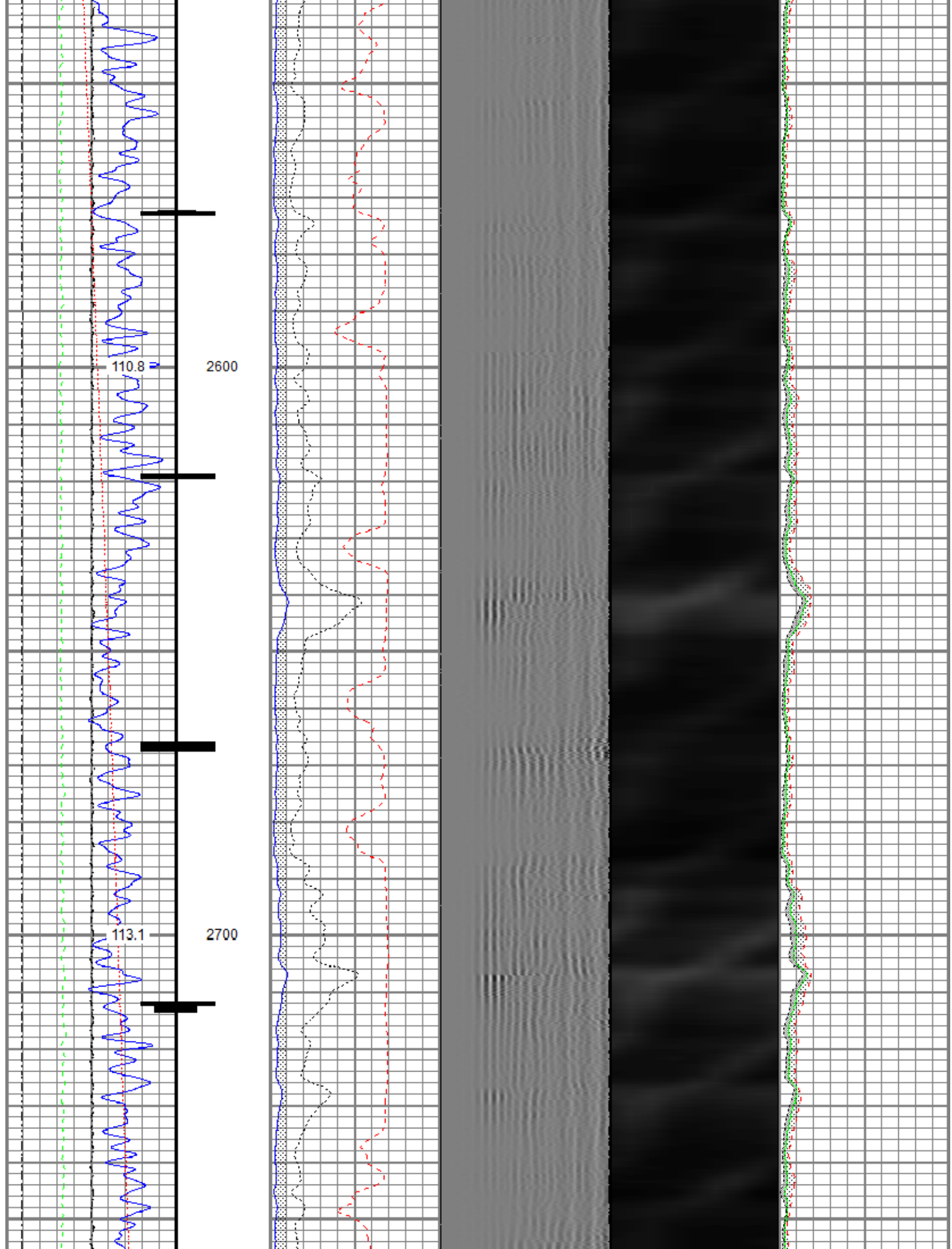


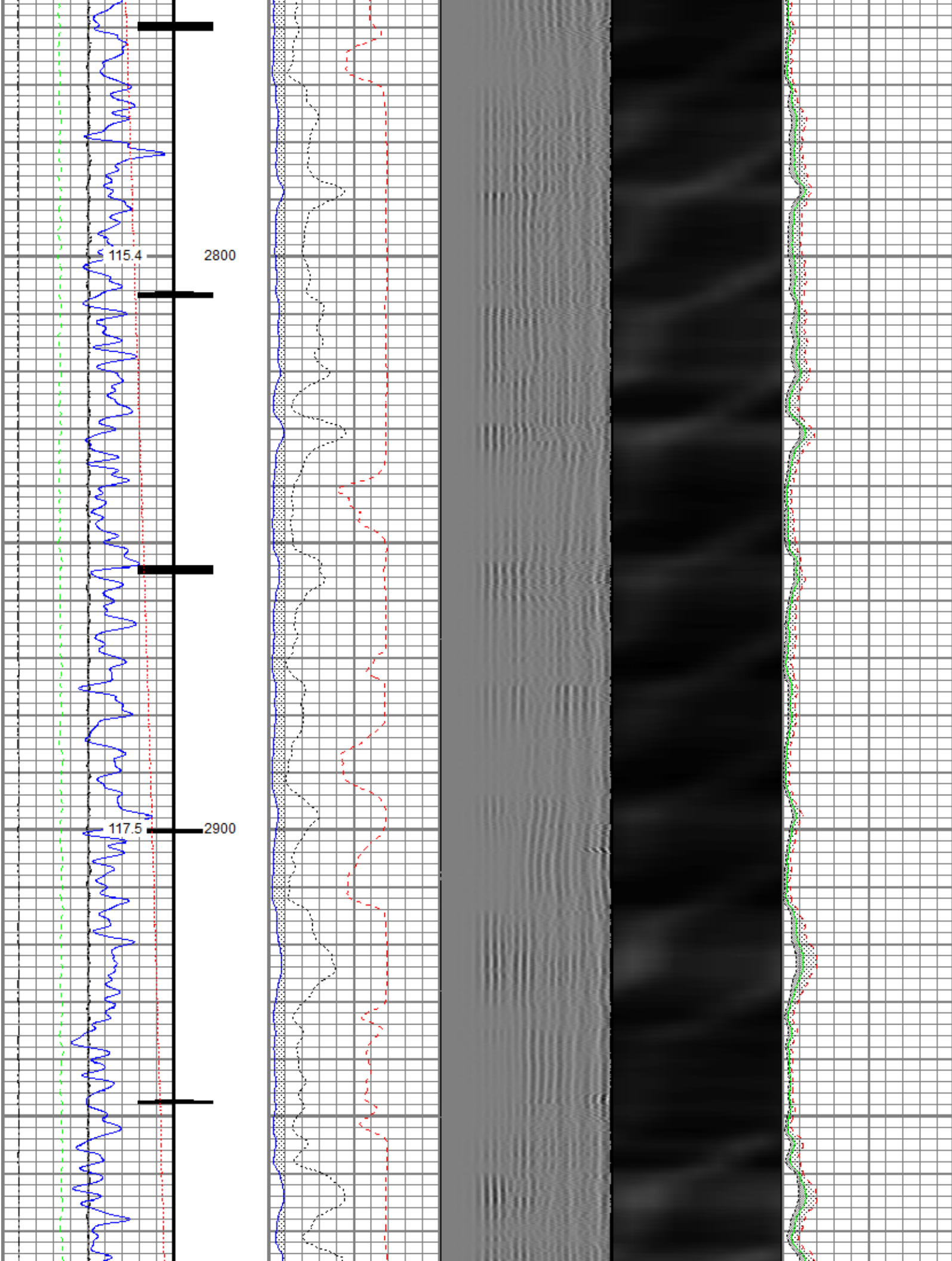


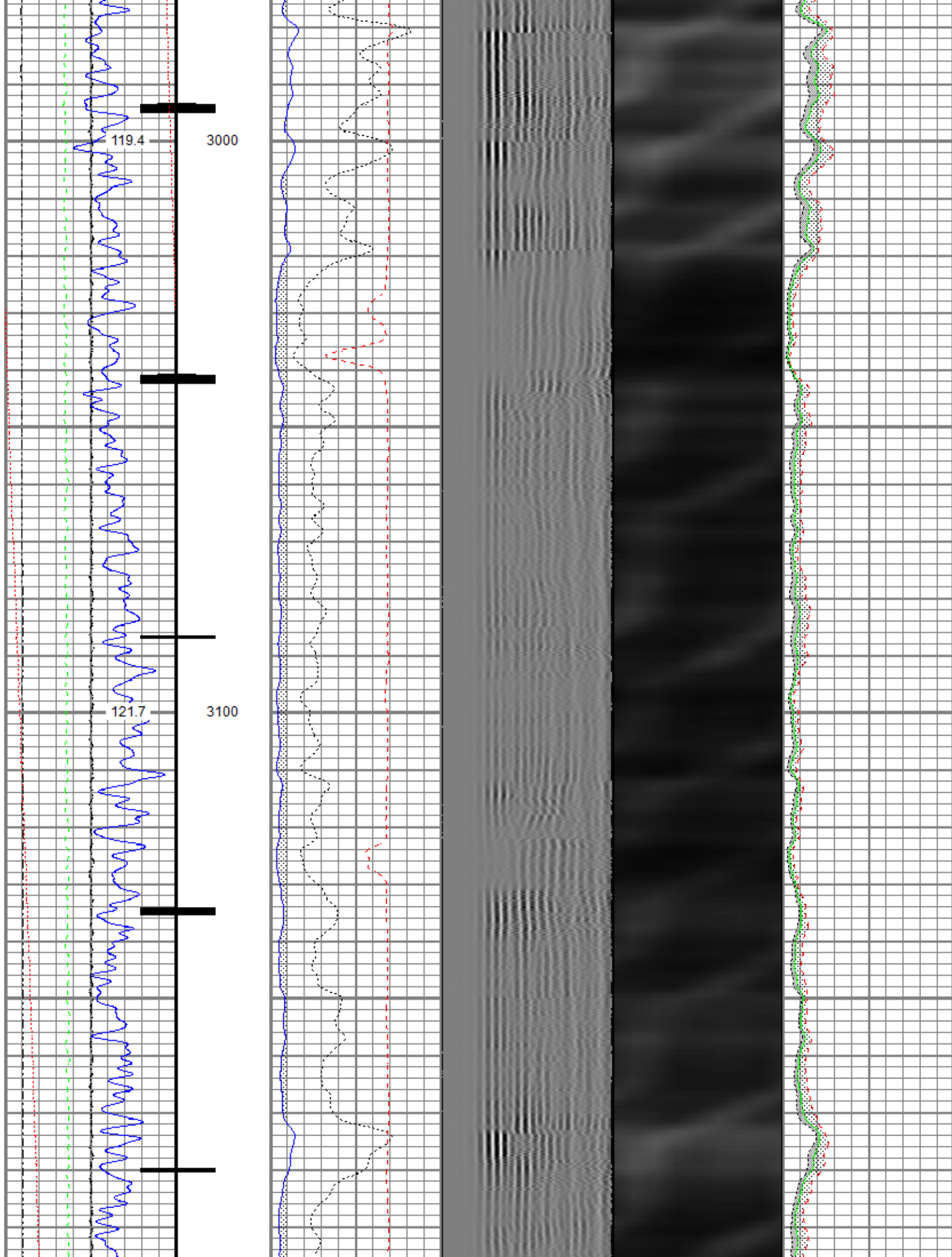


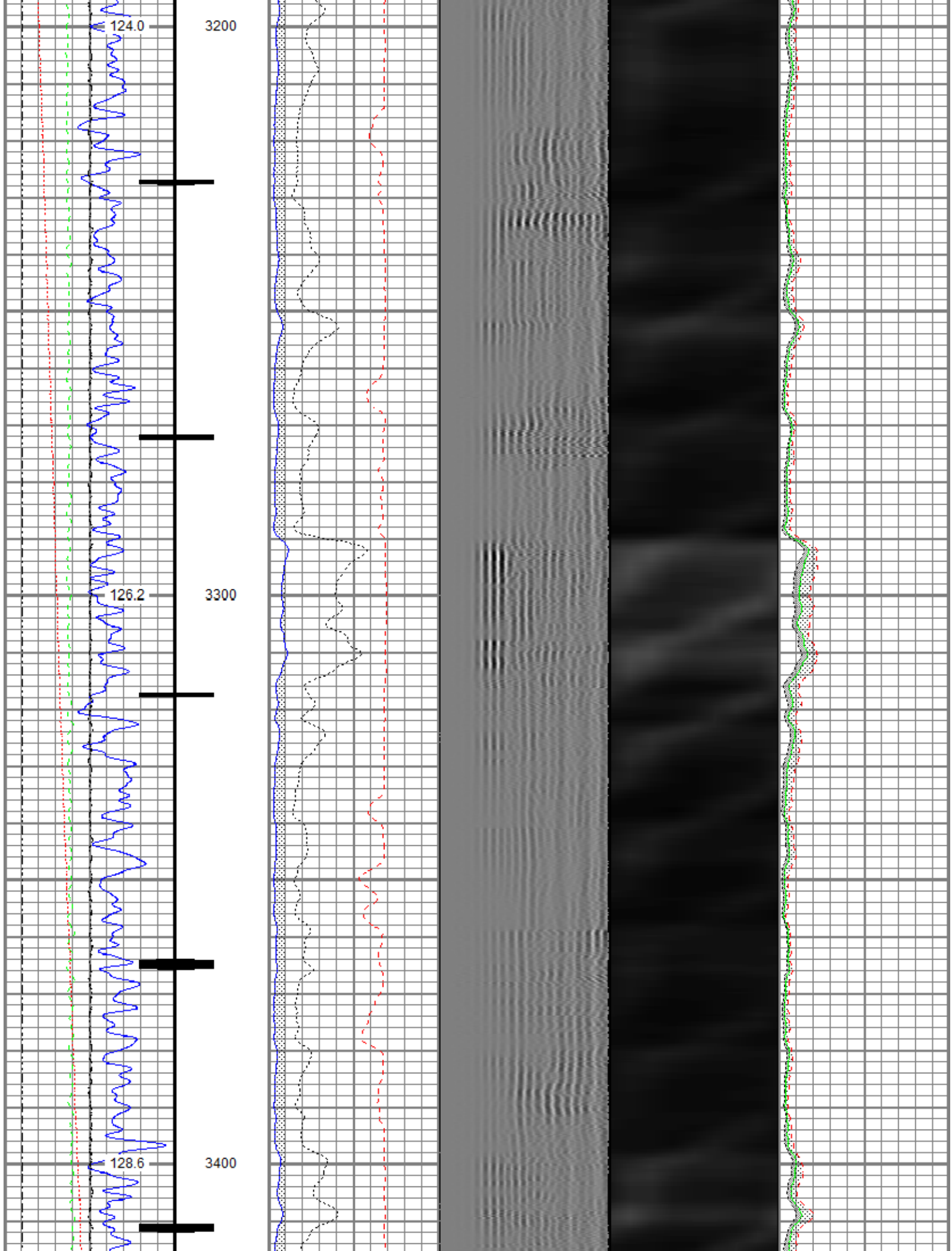


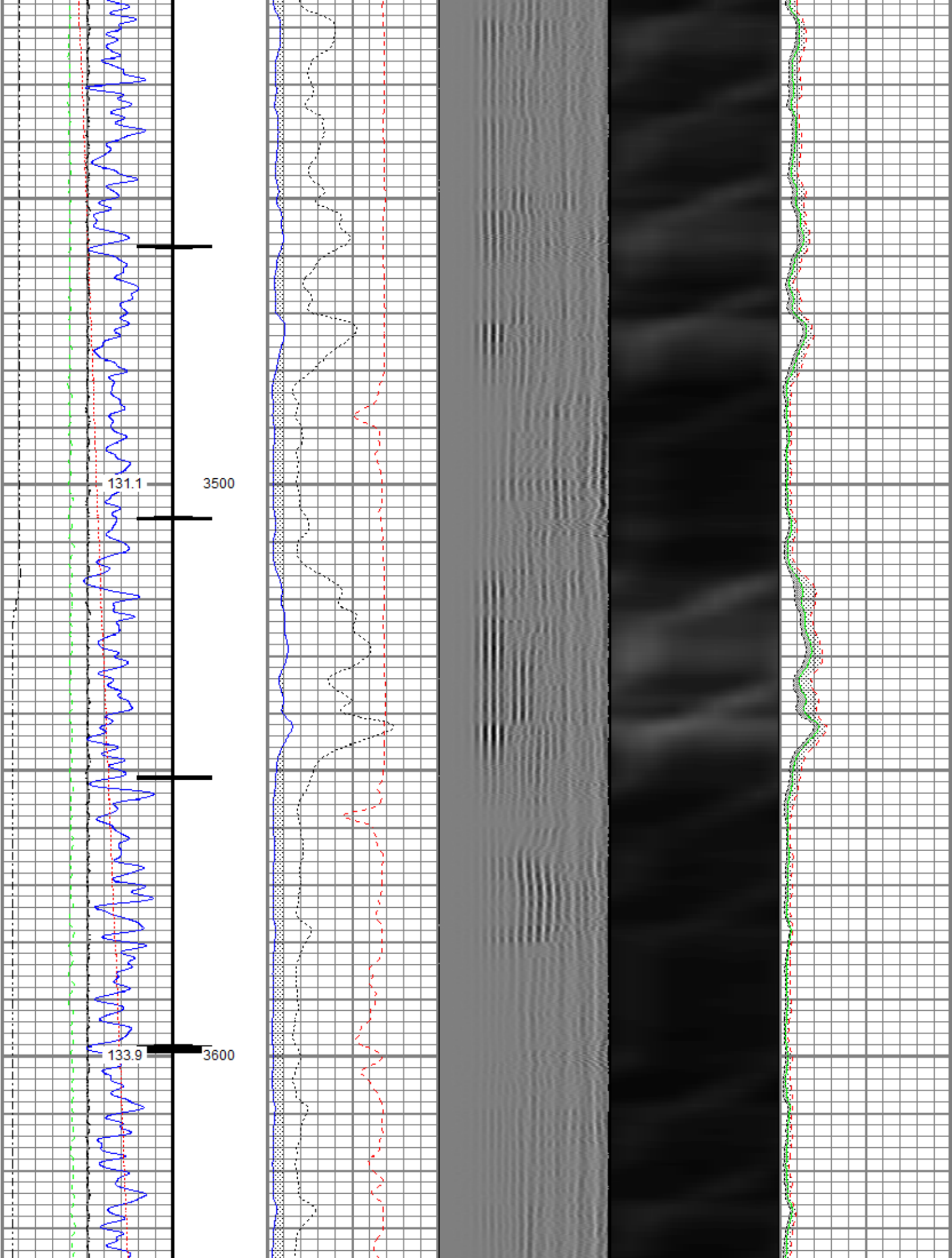


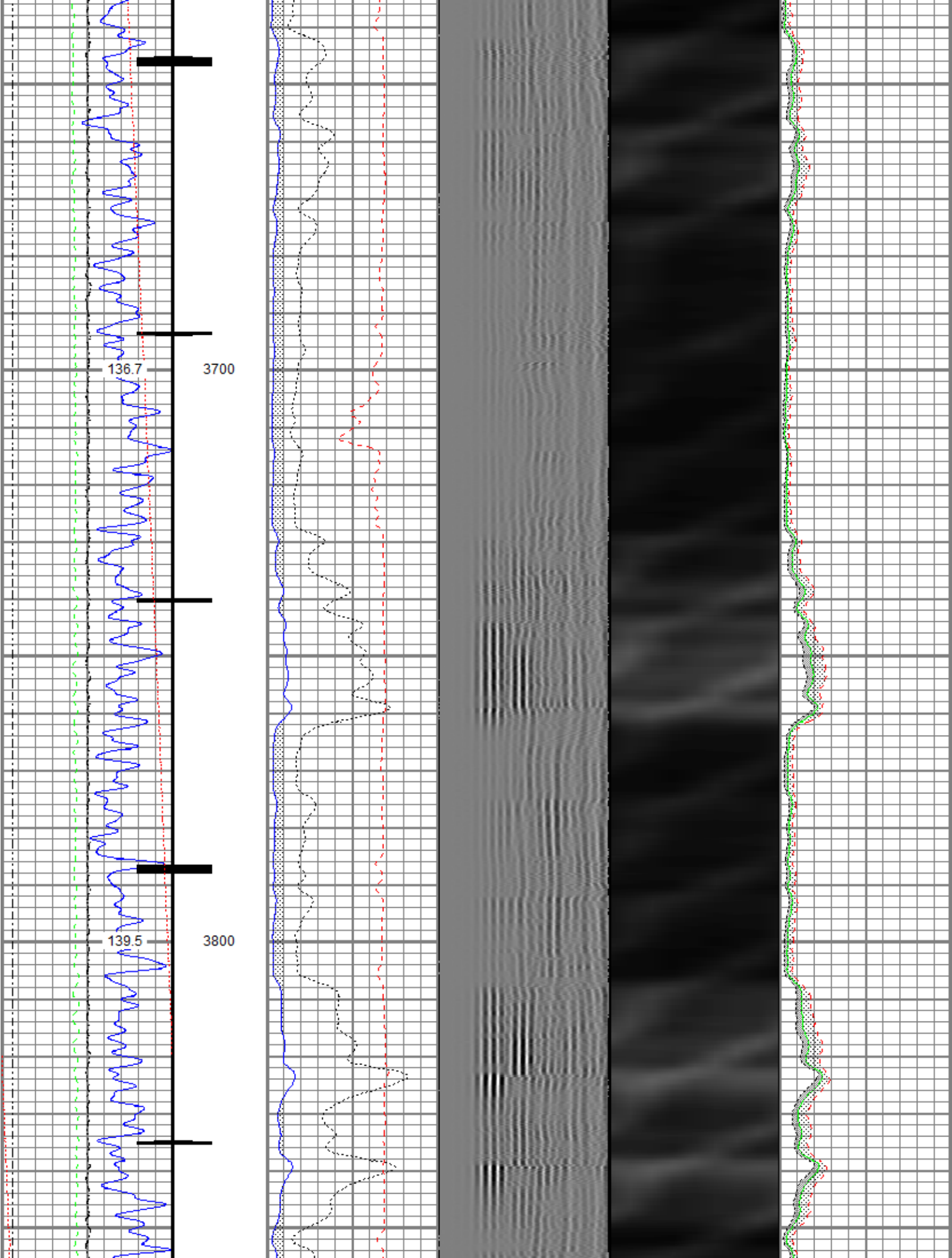


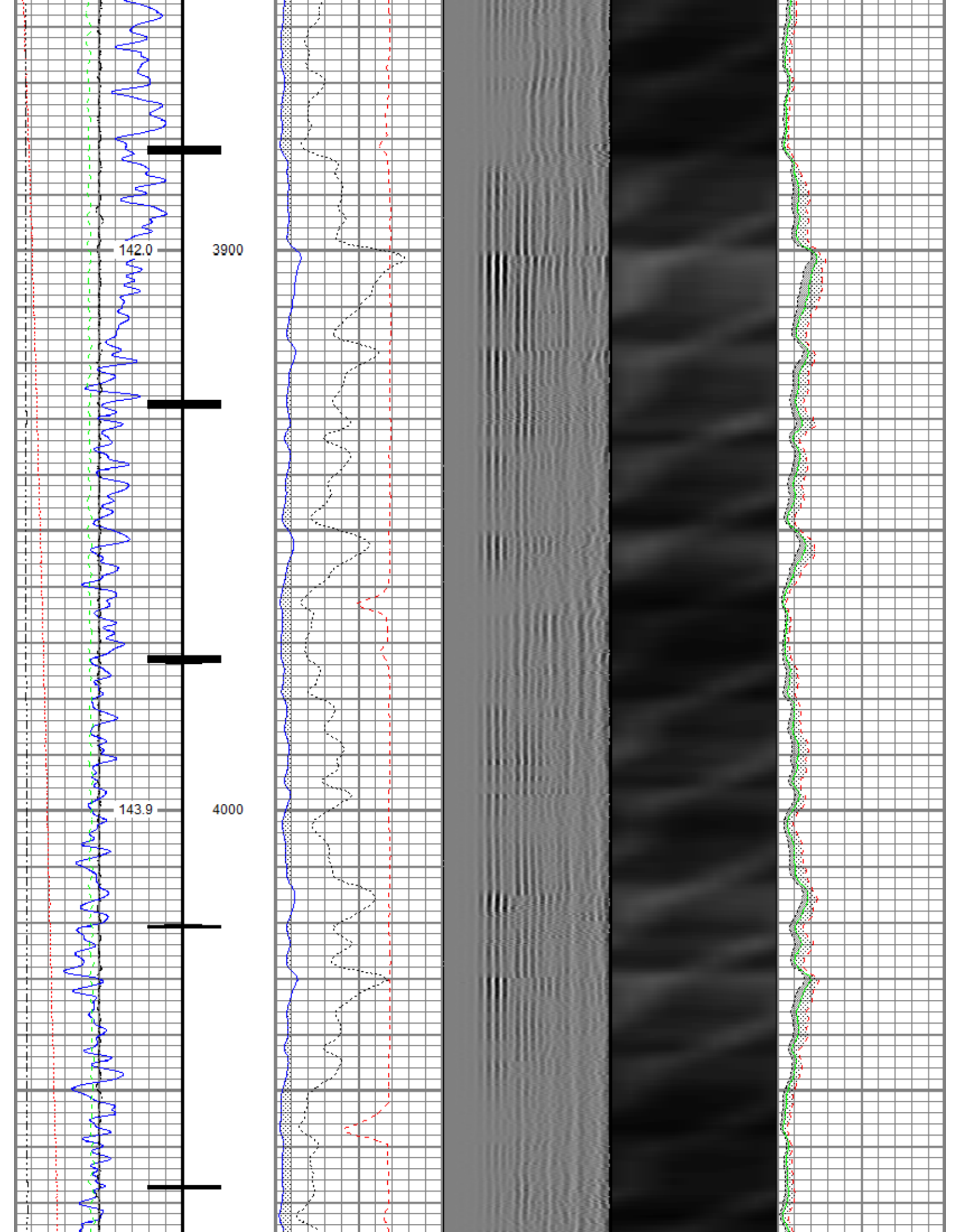


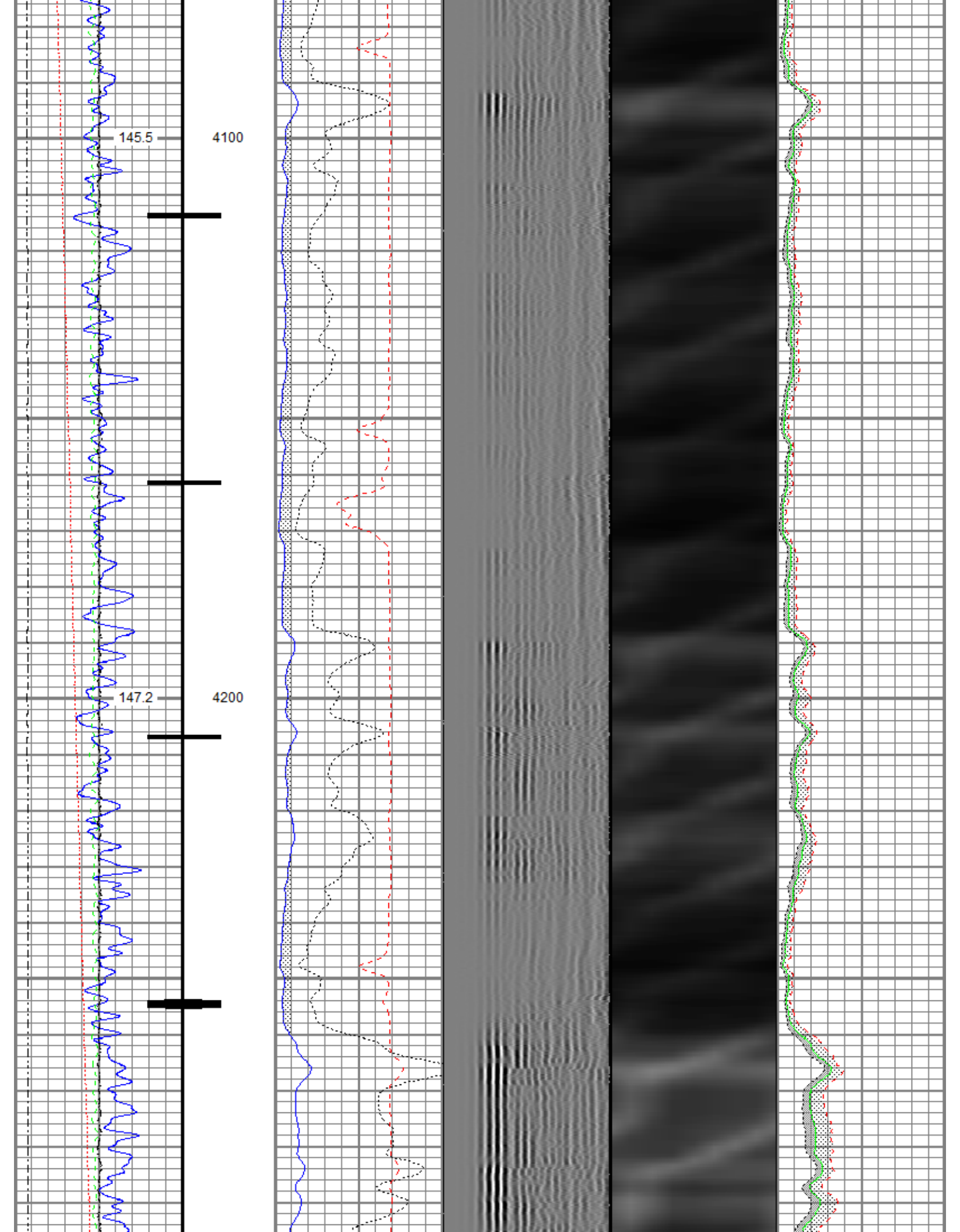


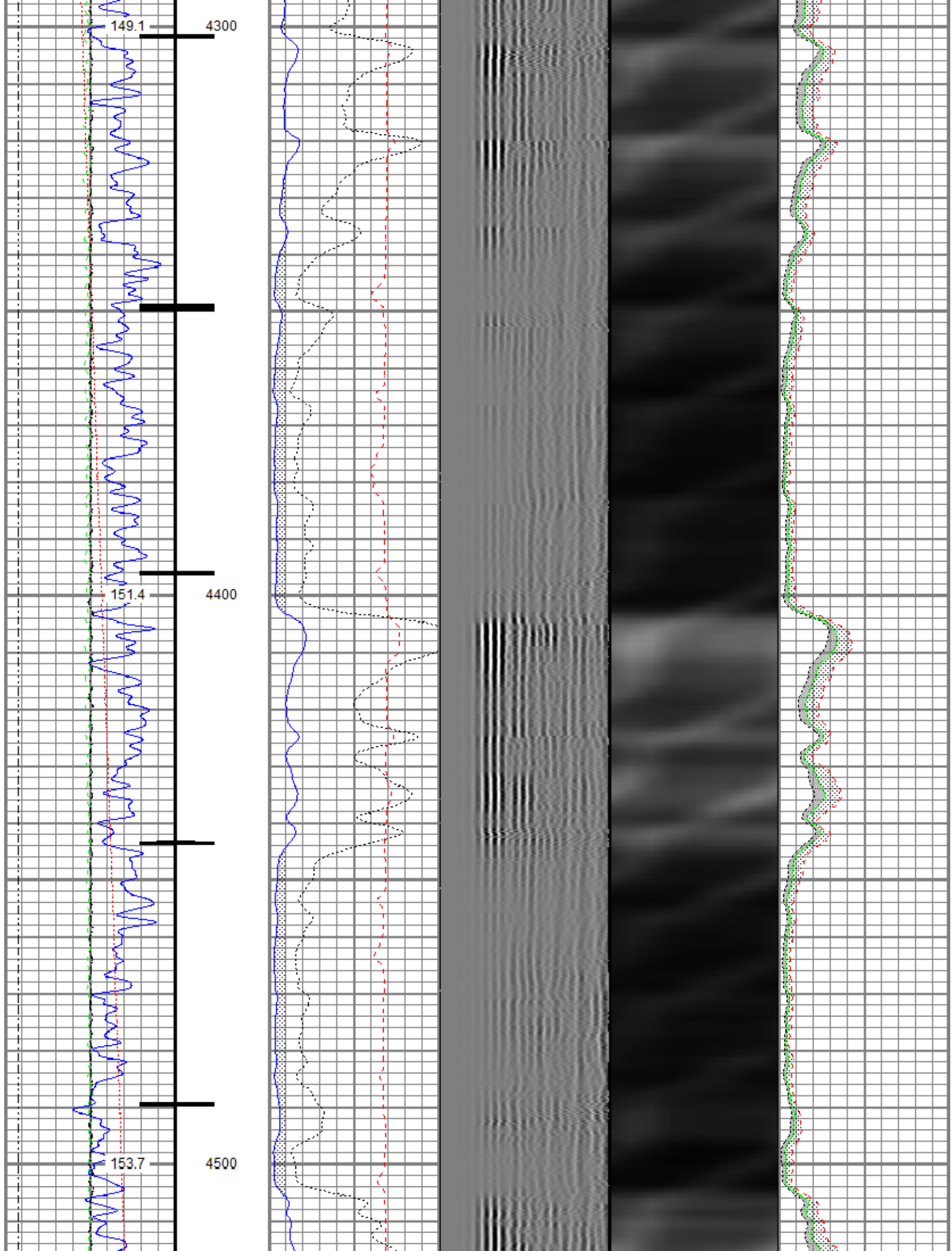


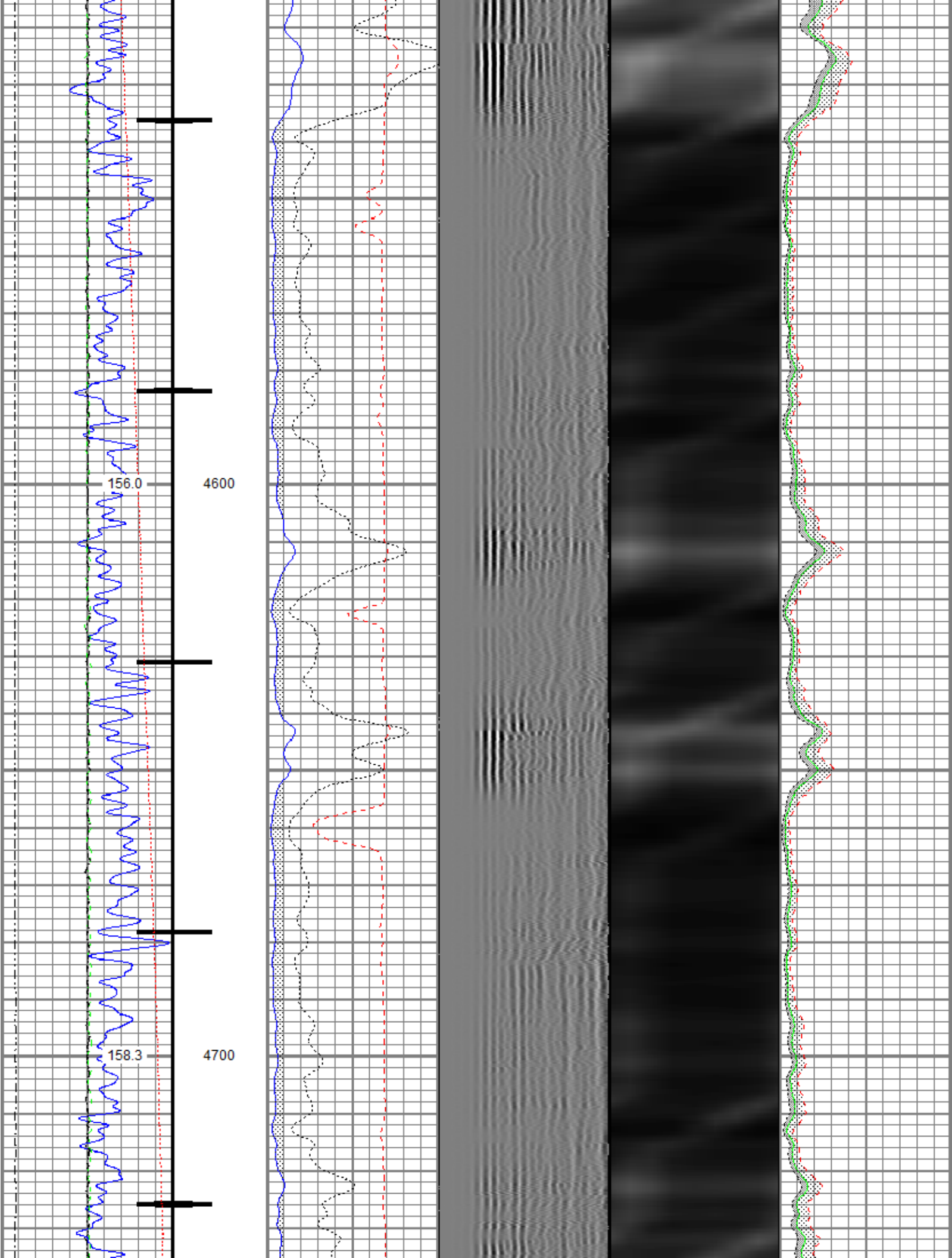


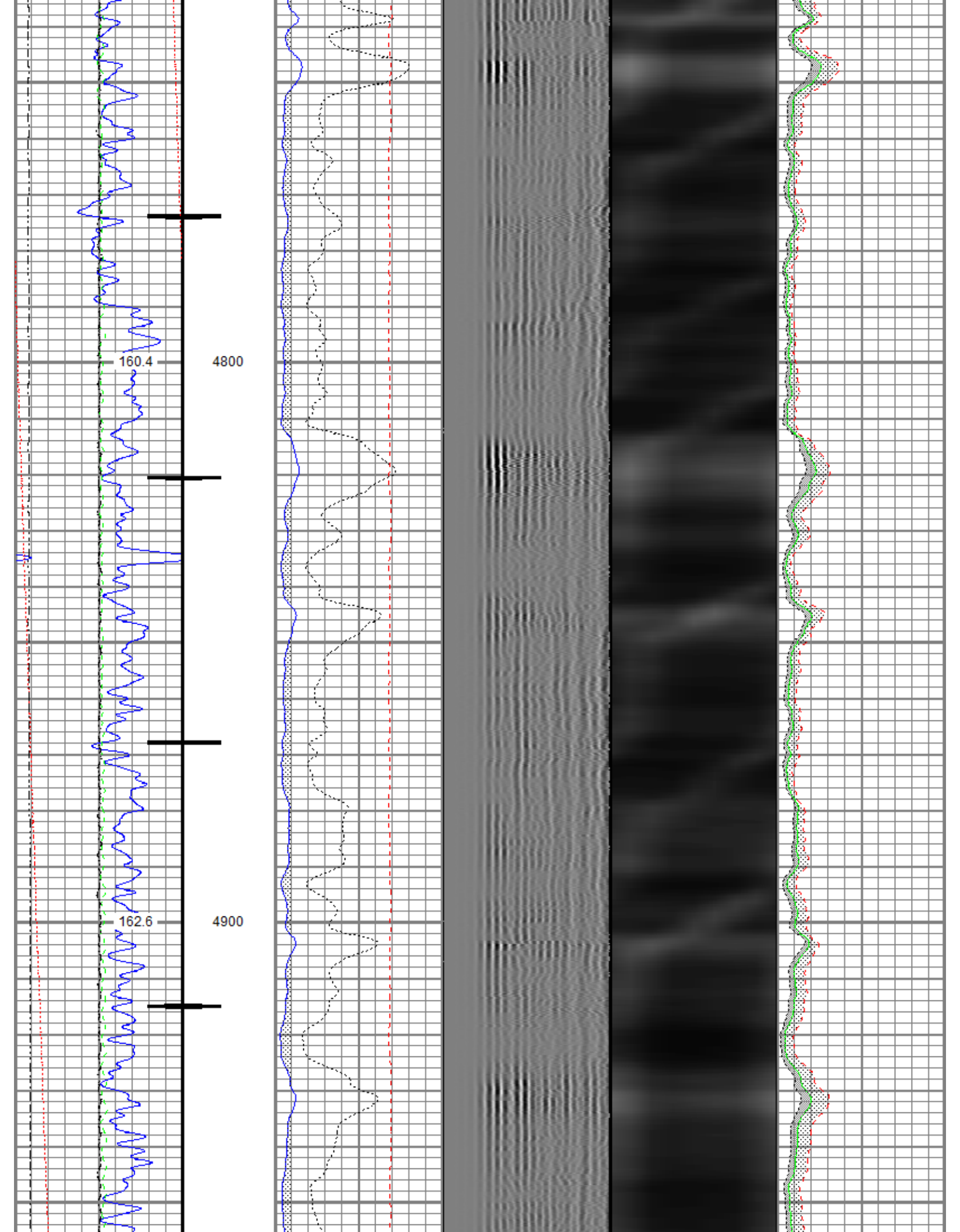


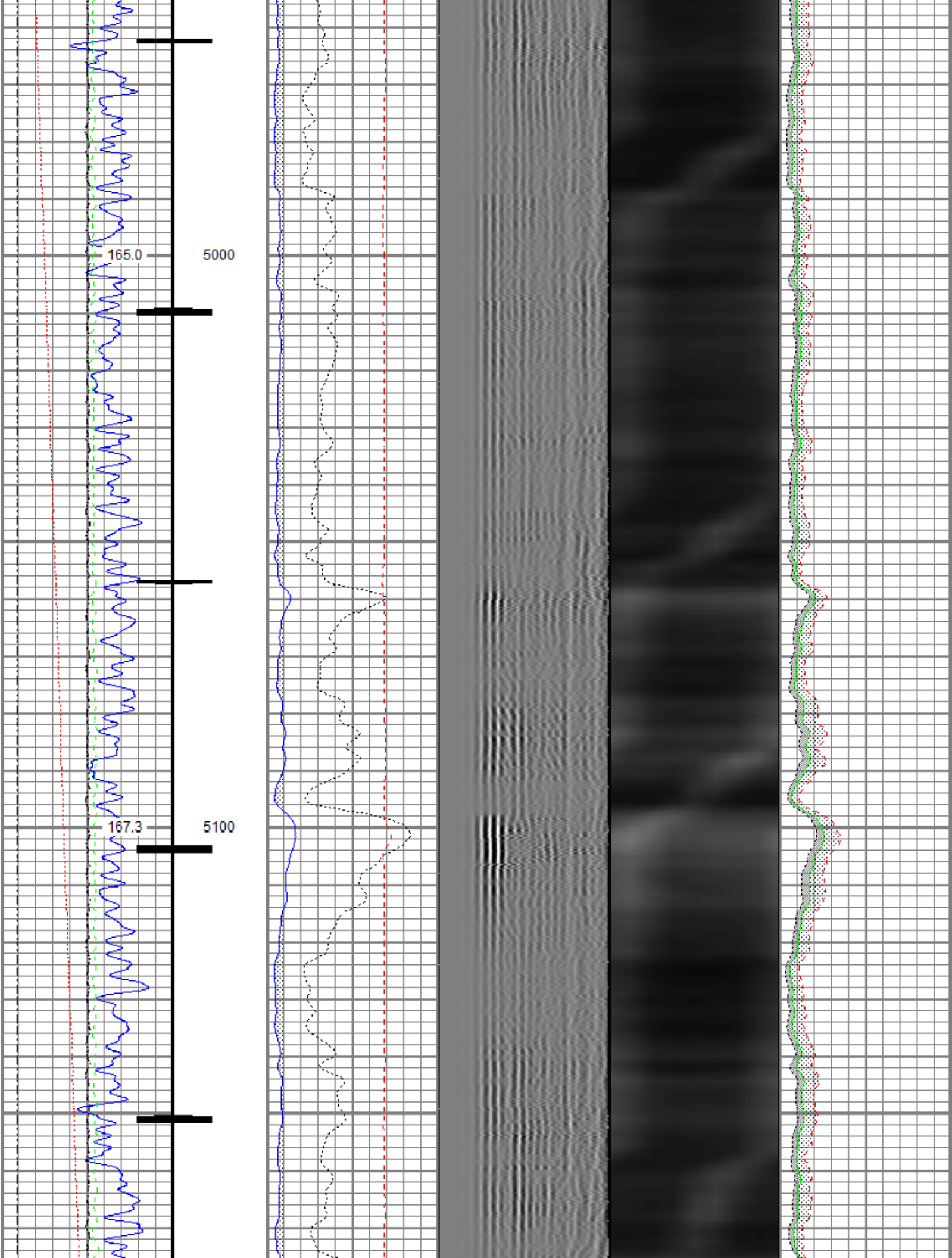


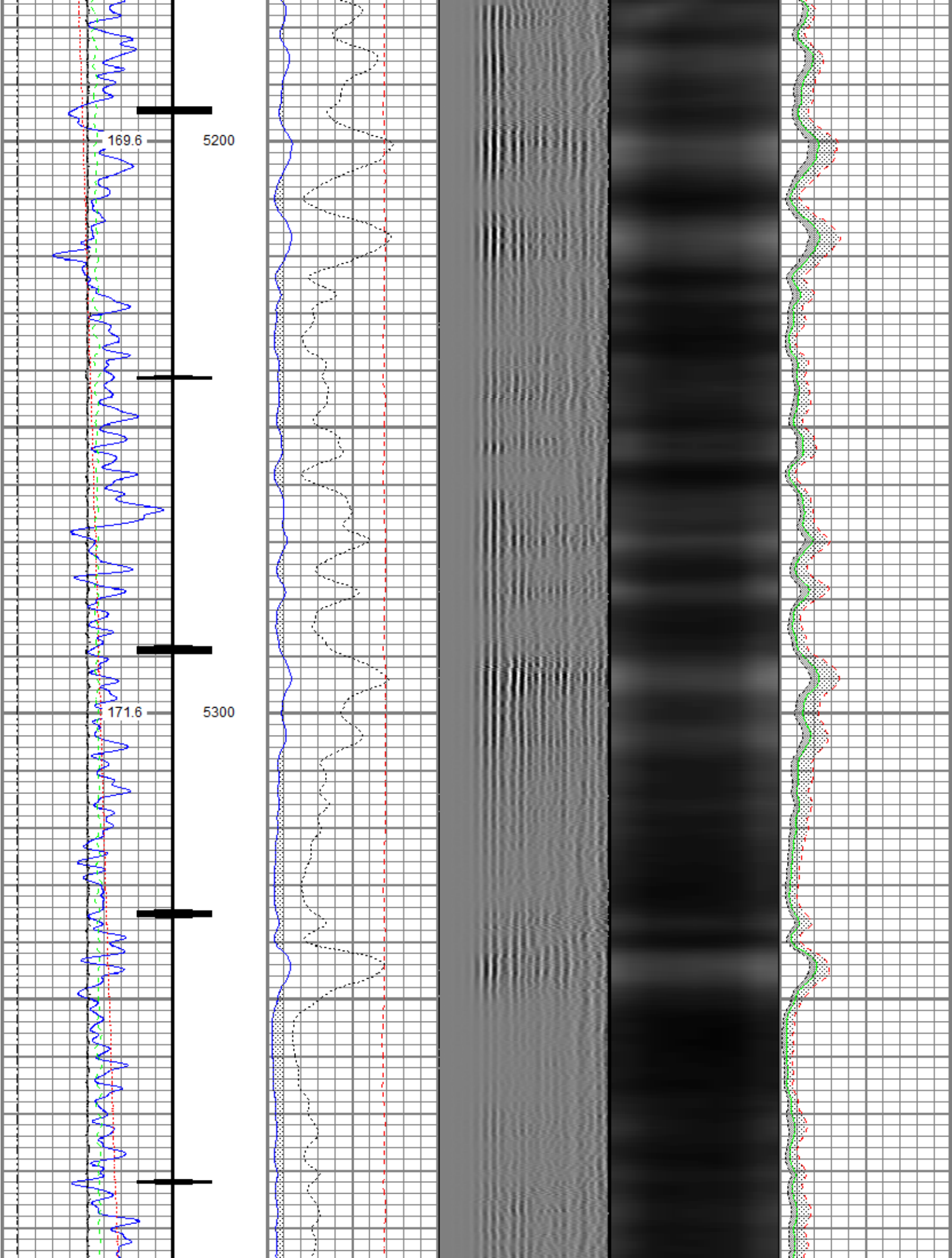


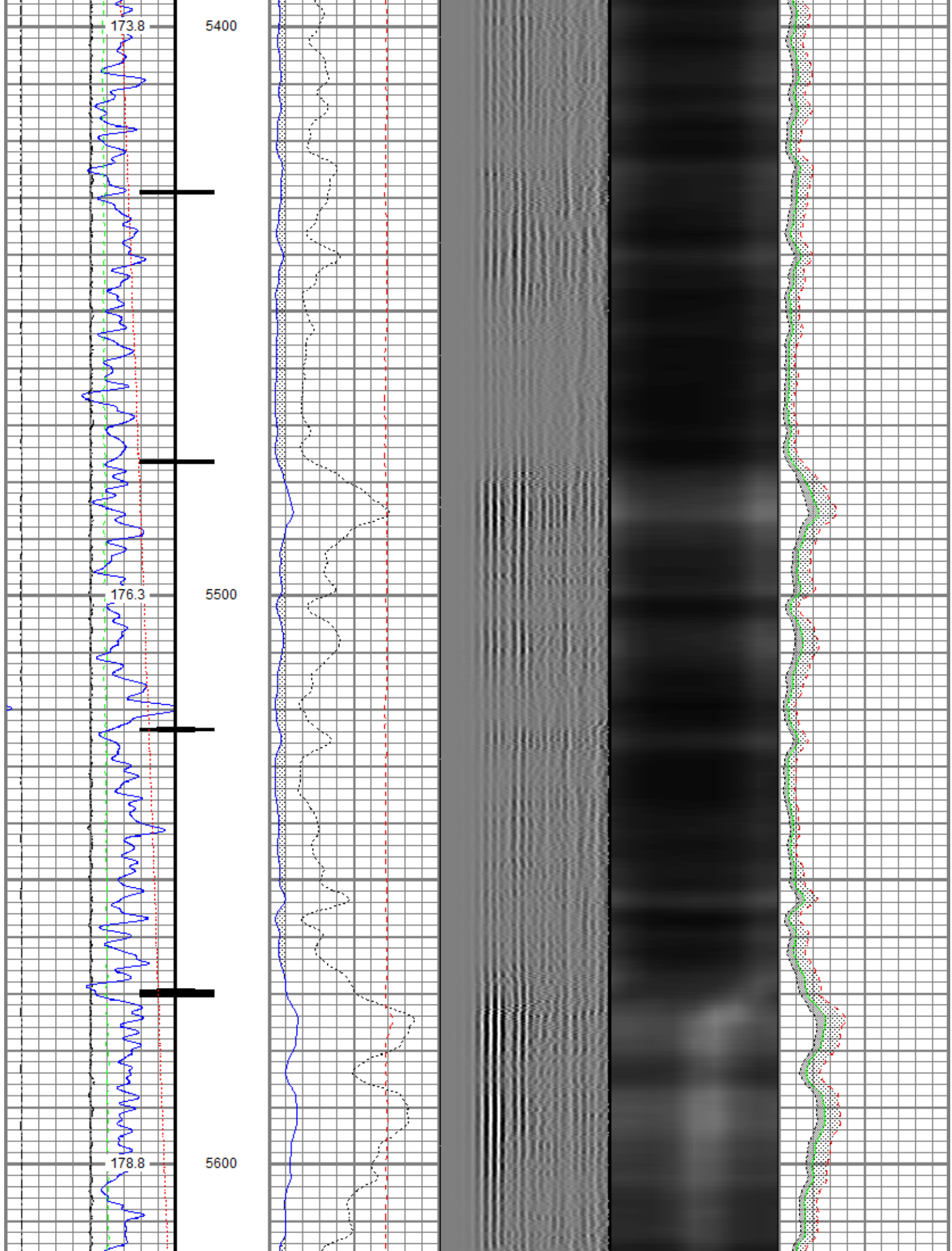


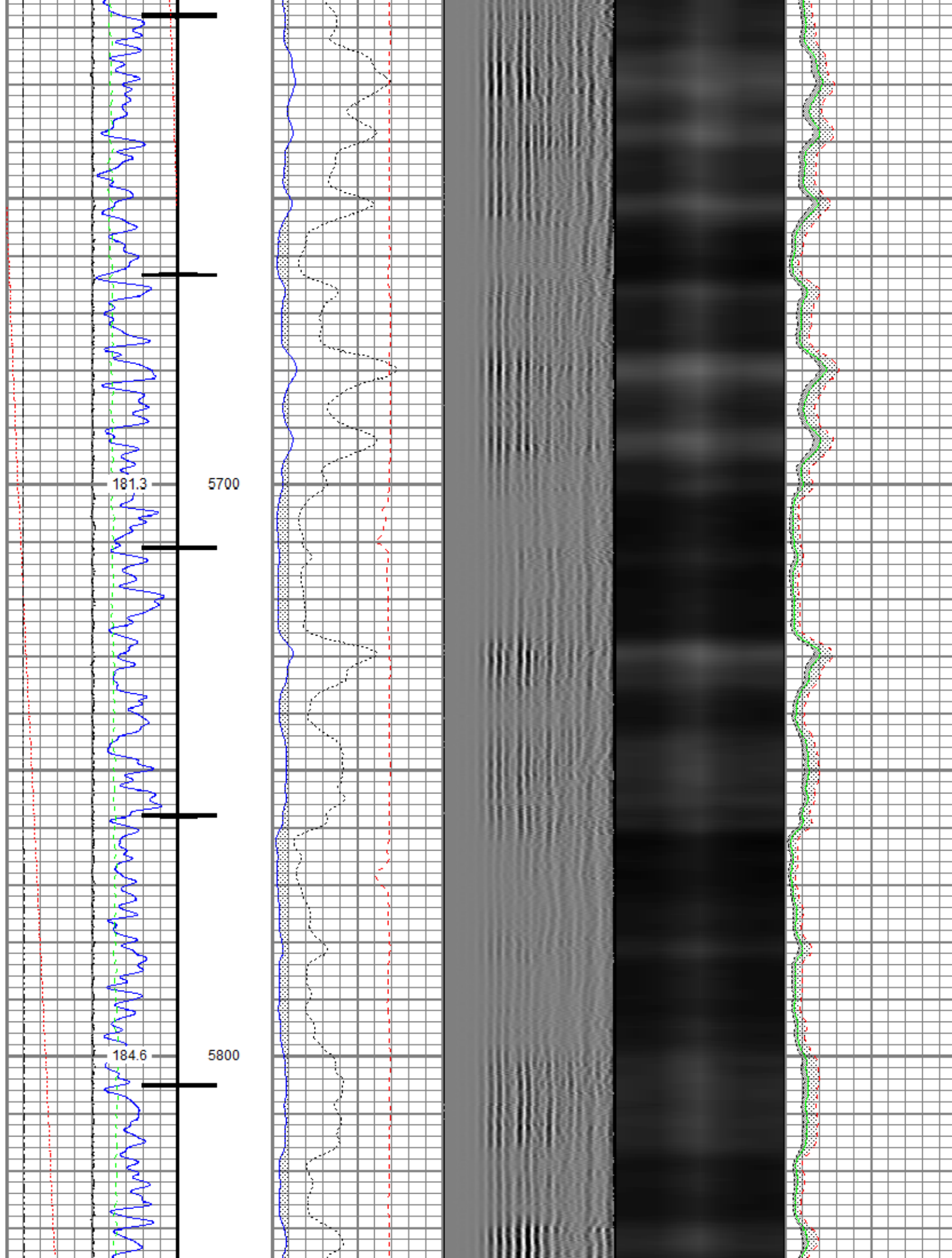


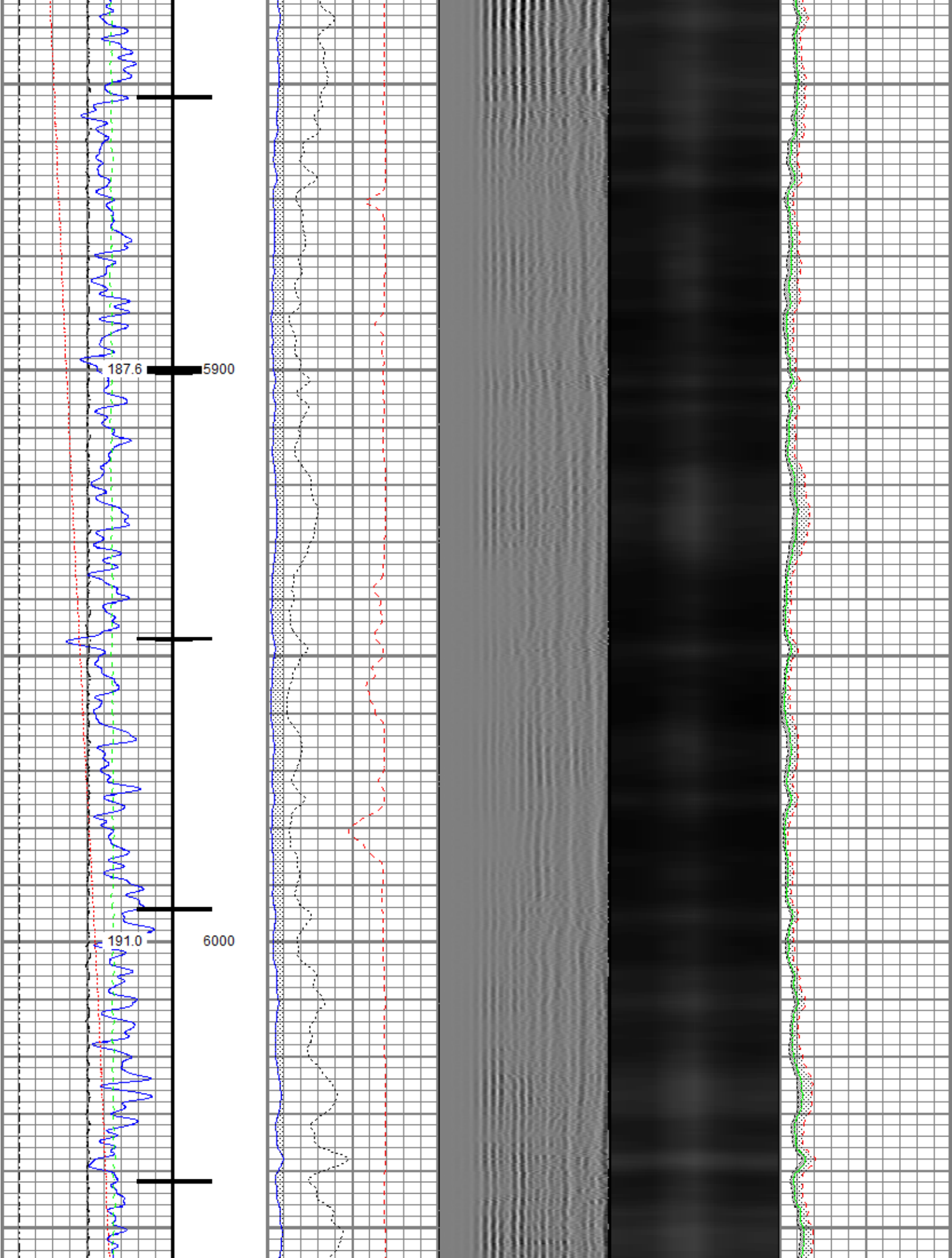


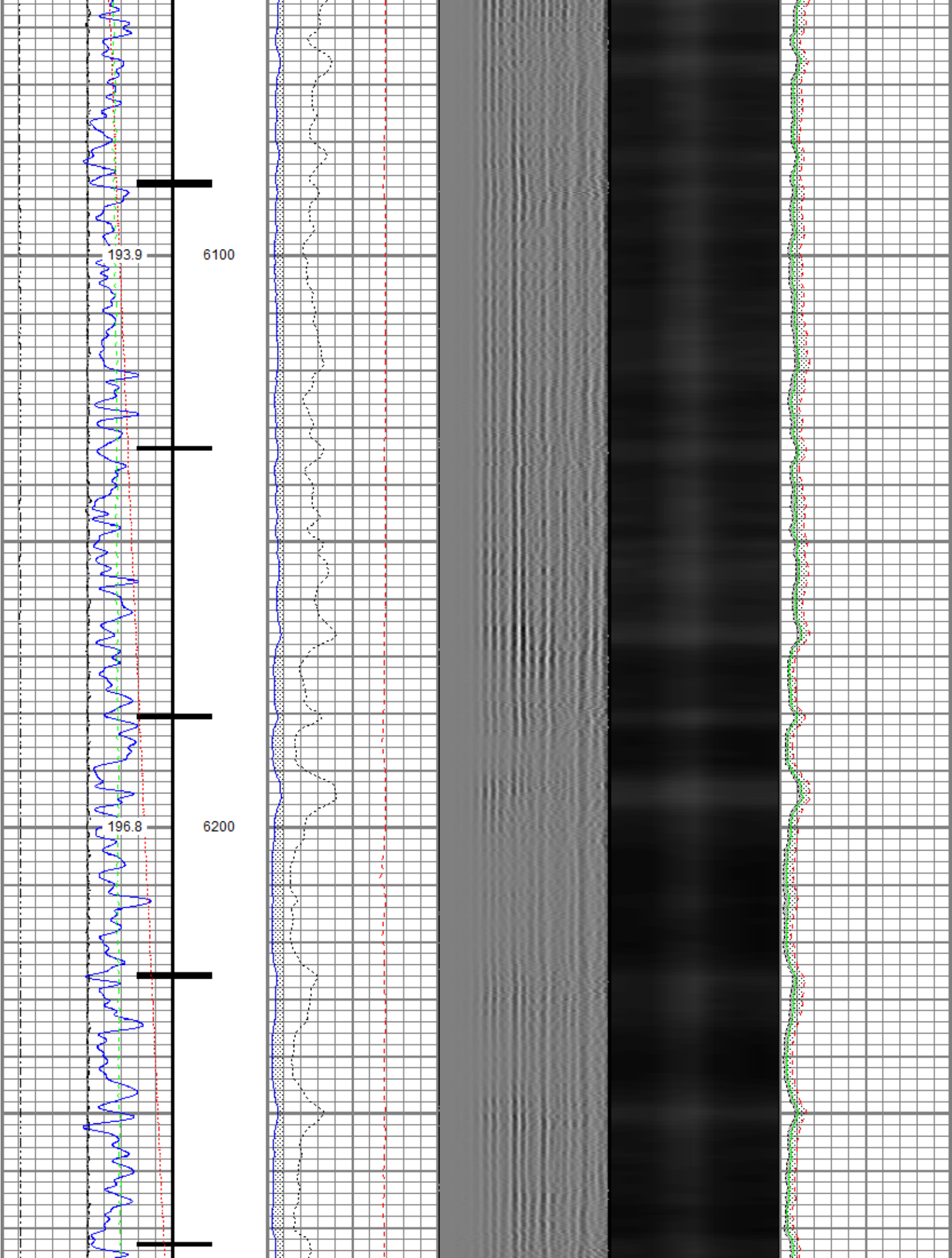


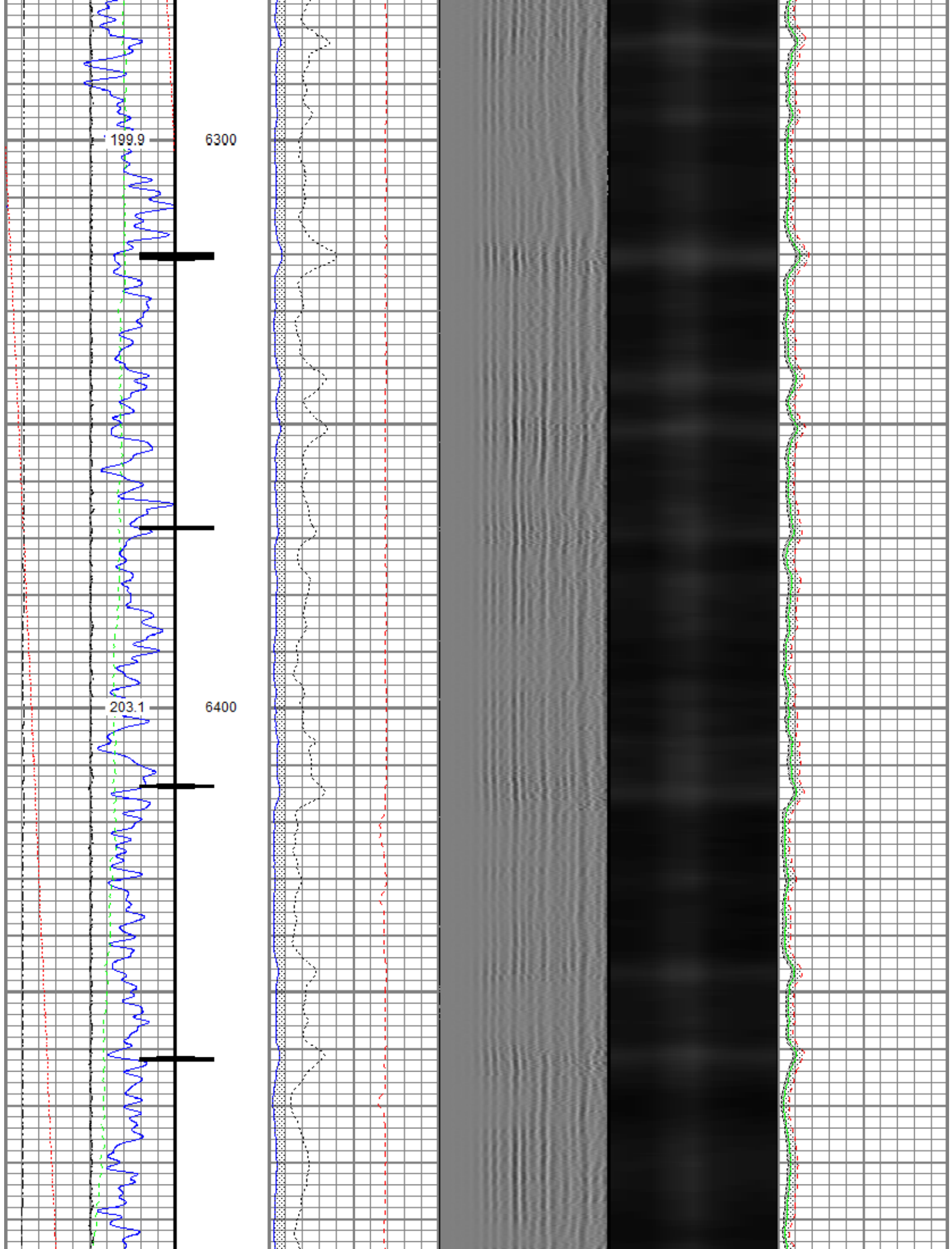


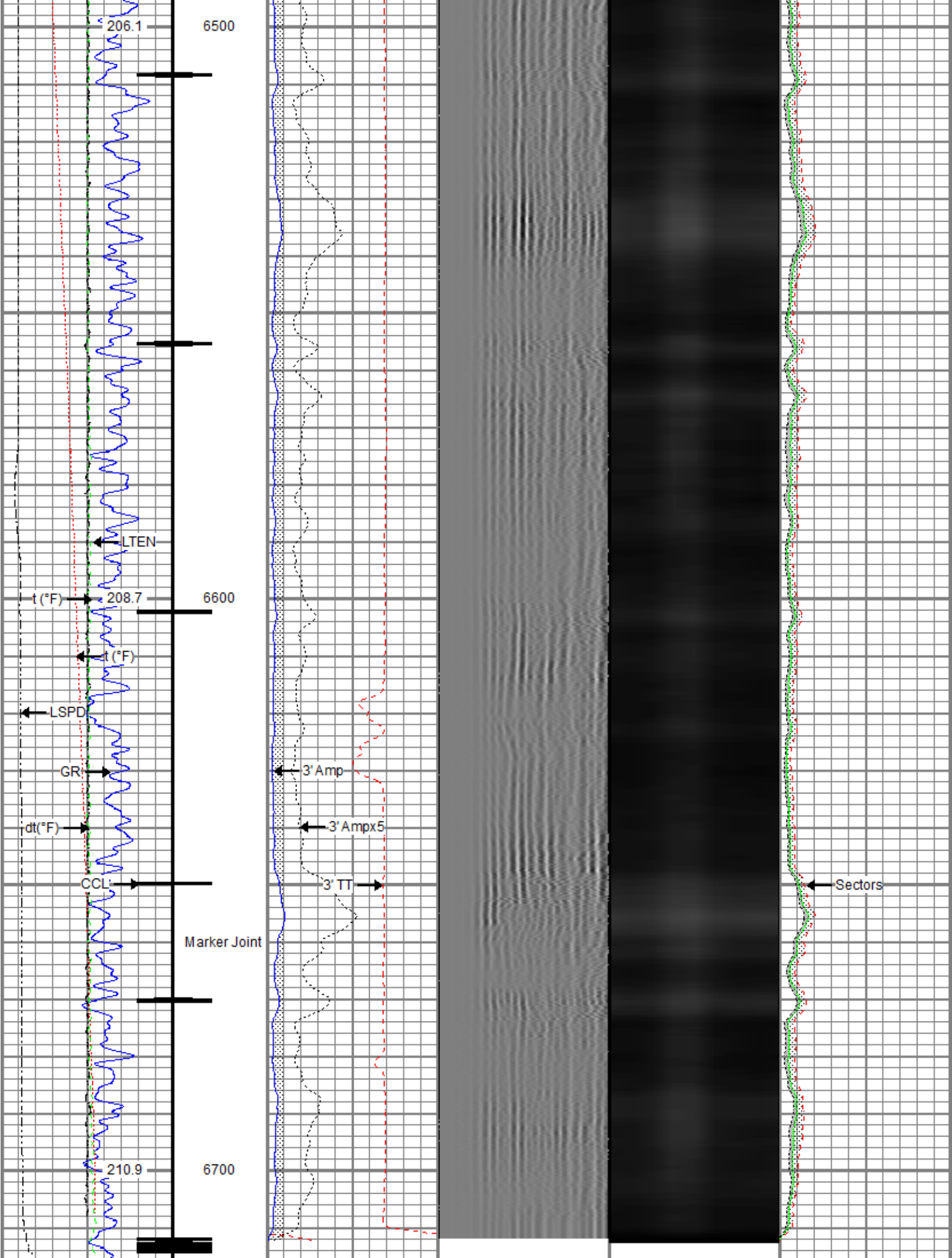


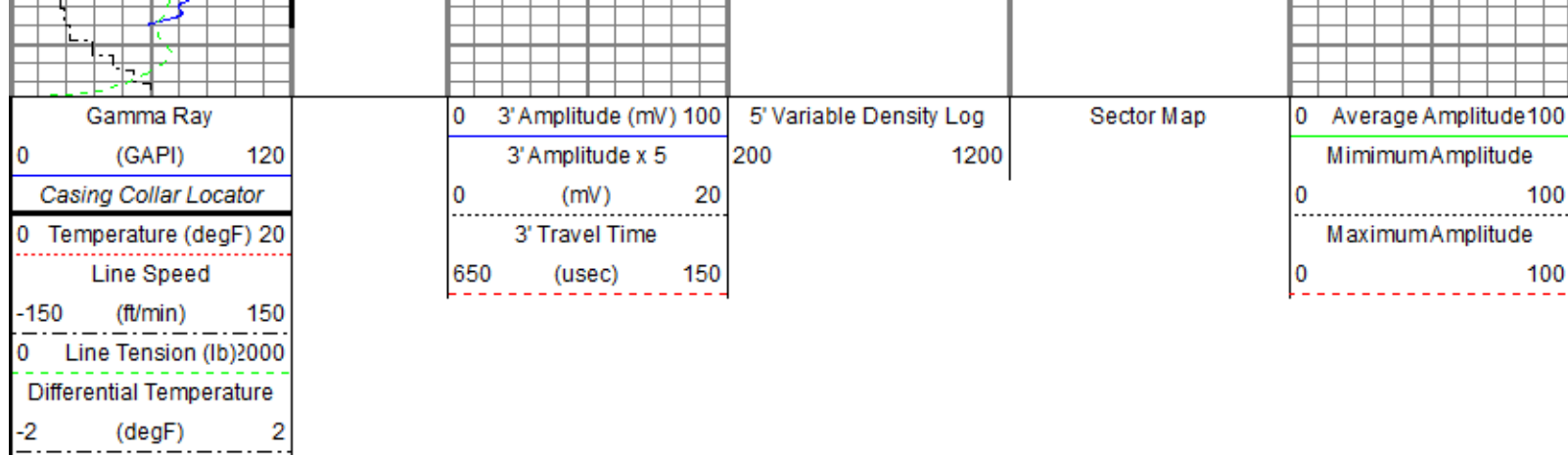








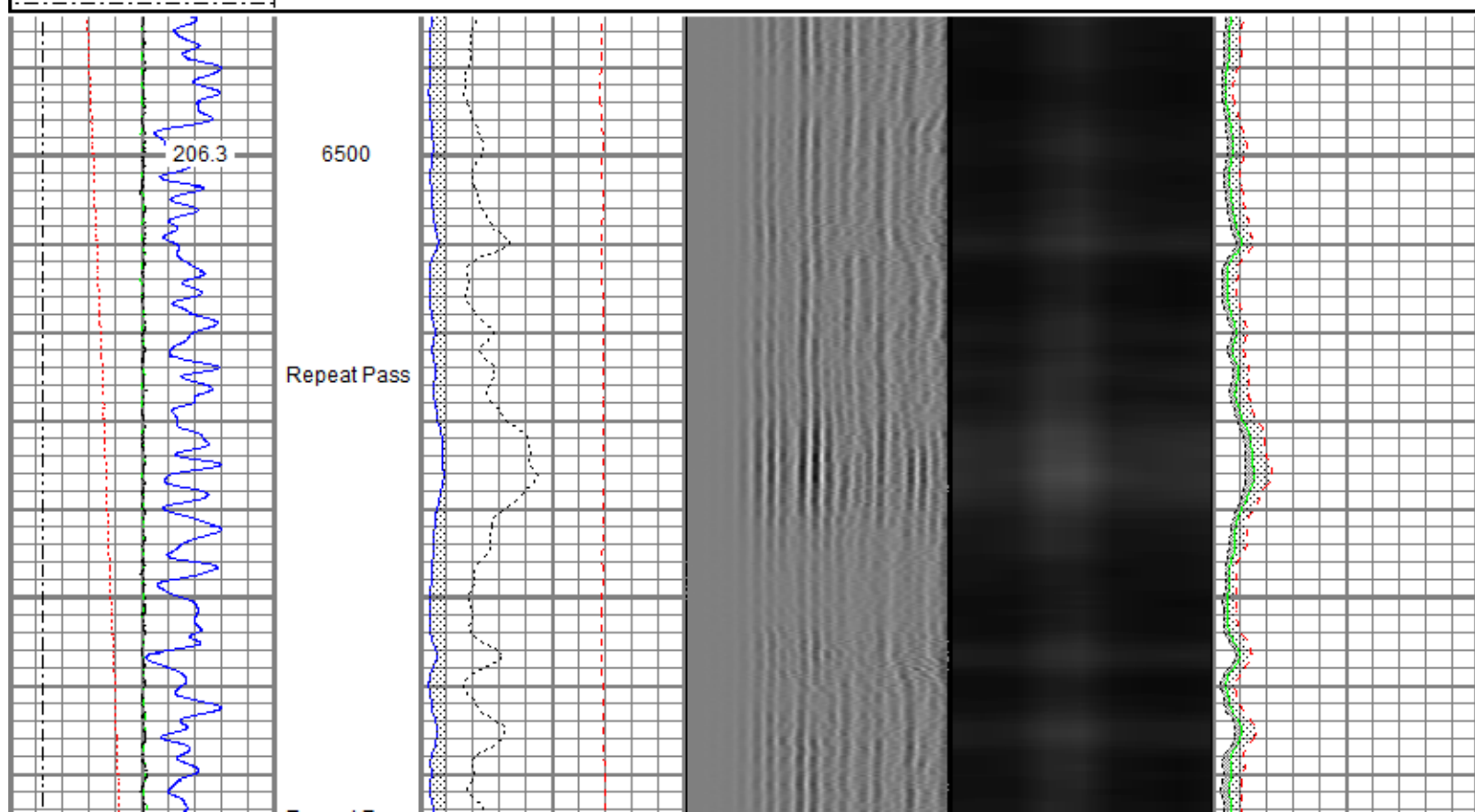
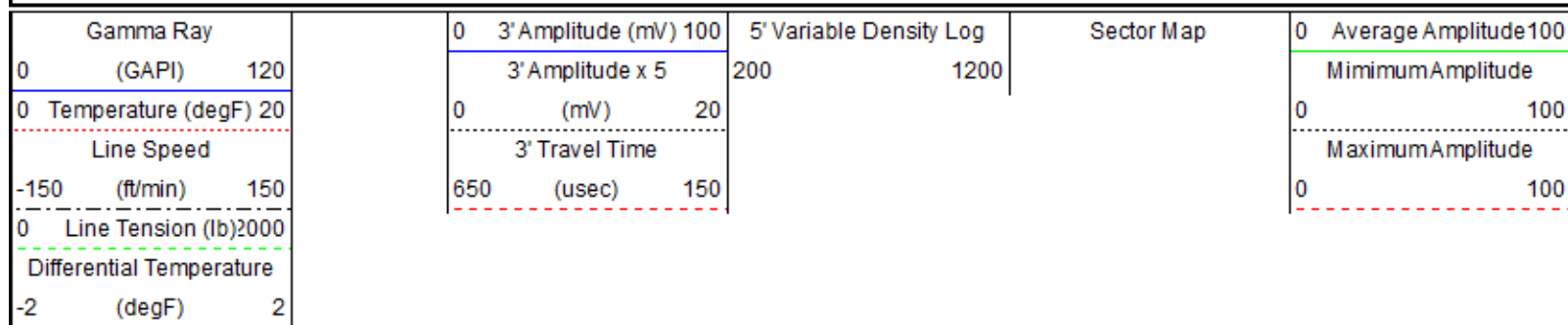


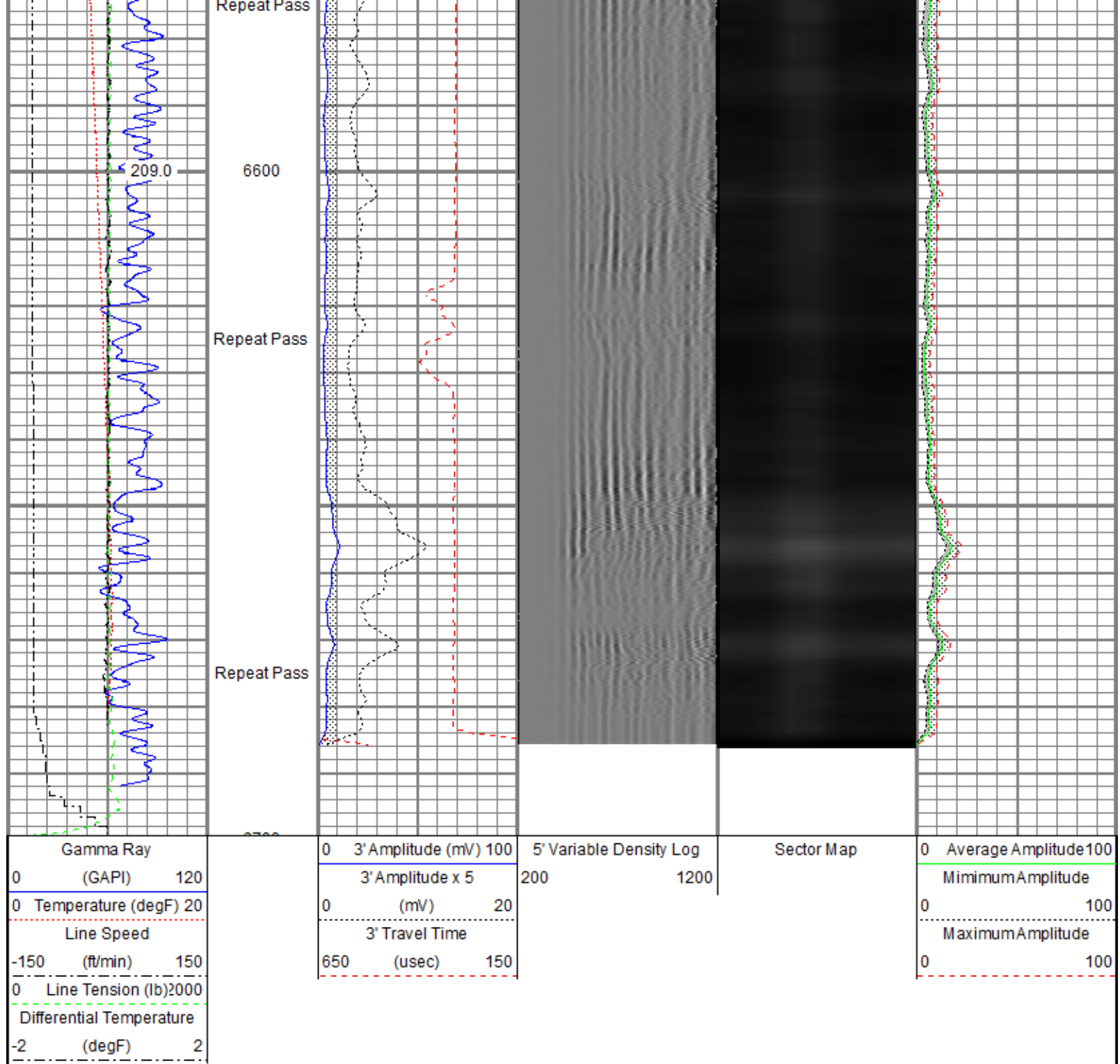


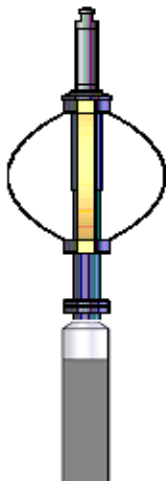
Repeat Pass

Recorded with 2500 PSI Surface Induced Pressure

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 Presentation Format ros_radrii
 Dataset Creation Sat Mar 10 16:37:34 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

TEMP	16.75					
WVFS8	14.52			Probe Radii-2750 RBT (FW1302-002)	9.39	2.75
WVFS7	14.52			Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub		105.00
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					
HEADVOLT	10.27					
				Probe CENT-2750	2.88	2.75
				Probe 2-3/4" Electric Inline Bowspring Centralizer		20.00
CCL\$2	6.51					
CCL\$1	6.51					
GR	5.26			Probe GR-CCL-2750 GOB (FW1212-026)	4.51	2.75
				Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined		55.00
				Probe CENT-2750	2.88	2.75
				Probe 2-3/4" Electric Inline Bowspring Centralizer		20.00
Dataset: SRC Energy_Falken 30N-14B-S_RBL_03-10-18.db: field/well/run1/main Total length: 23.57 ft Total weight: 223.60 lb O.D.: 2.75 in						

Calibration Report		
Database File	C:\ProgramData\Warrior\Data\SRC Energy_Falken 30N-14B-S_RBL_03-10-18\SRC Energy_Falken 30N-14B-S_RBL_03-10-18.d	
Dataset Pathname	main	
Dataset Creation	Sat Mar 10 16:50:46 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: FW1302-002
Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
Calibration Depth: -5.516 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.535	0.800	71.921	133.317	0.616
CAL	0.669	0.668				
5'	0.001	0.487	0.800	71.921	146.583	0.604
SUM						
S1	0.002	0.505	0.000	100.000	198.599	-0.344
S2	0.001	0.523	0.000	100.000	191.667	-0.270
S3	0.001	0.552	0.000	100.000	181.501	-0.173
S4	0.000	0.579	0.000	100.000	172.745	-0.025
S5	0.001	0.572	0.000	100.000	174.959	-0.158
S6	0.002	0.548	0.000	100.000	183.107	-0.344
S7	0.002	0.526	0.000	100.000	190.974	-0.364
S8	0.002	0.517	0.000	100.000	194.264	-0.353

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.669	0.668	1.000	0.000

Air Zero Calibration, performed Tue Mar 06 13:10:46 2018:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.006		0.000		0.000	
5'	0.006		0.000		0.001	
SUM						
S1	0.005		0.000		0.000	
S2	0.007		0.000		0.000	
S3	0.006		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	0.006		0.000		0.001	
S8	0.007		0.000		0.000	

Temperature Calibration Report

Serial Number: FW1302-002
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:28:07 2017

	Reference	Reading
Low Reference:	100.00 degF	110.72 degF
High Reference:	350.00 degF	409.18 degF
Gain:	0.84	
Offset:	7.26	
Delta Spacing	1	



Company	SRC Energy Inc
Well	Falken 30N-14B-S
Field	Wattenberg
County	Weld
State	Colorado