



Radial Cement Bond
Gamma Ray
Casing Collar Log

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

Location: API #: 05-123-45119
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	16-MAR-2018	Four		
Run Number		13647 FT (GL)		
Depth Driller		6850 FT		
Depth Logger		6845 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.	215°F	
		Estimated Cement Top	See Log	
		Time Well Ready	ROA	
		Time Logger on Bottom	0920	
		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

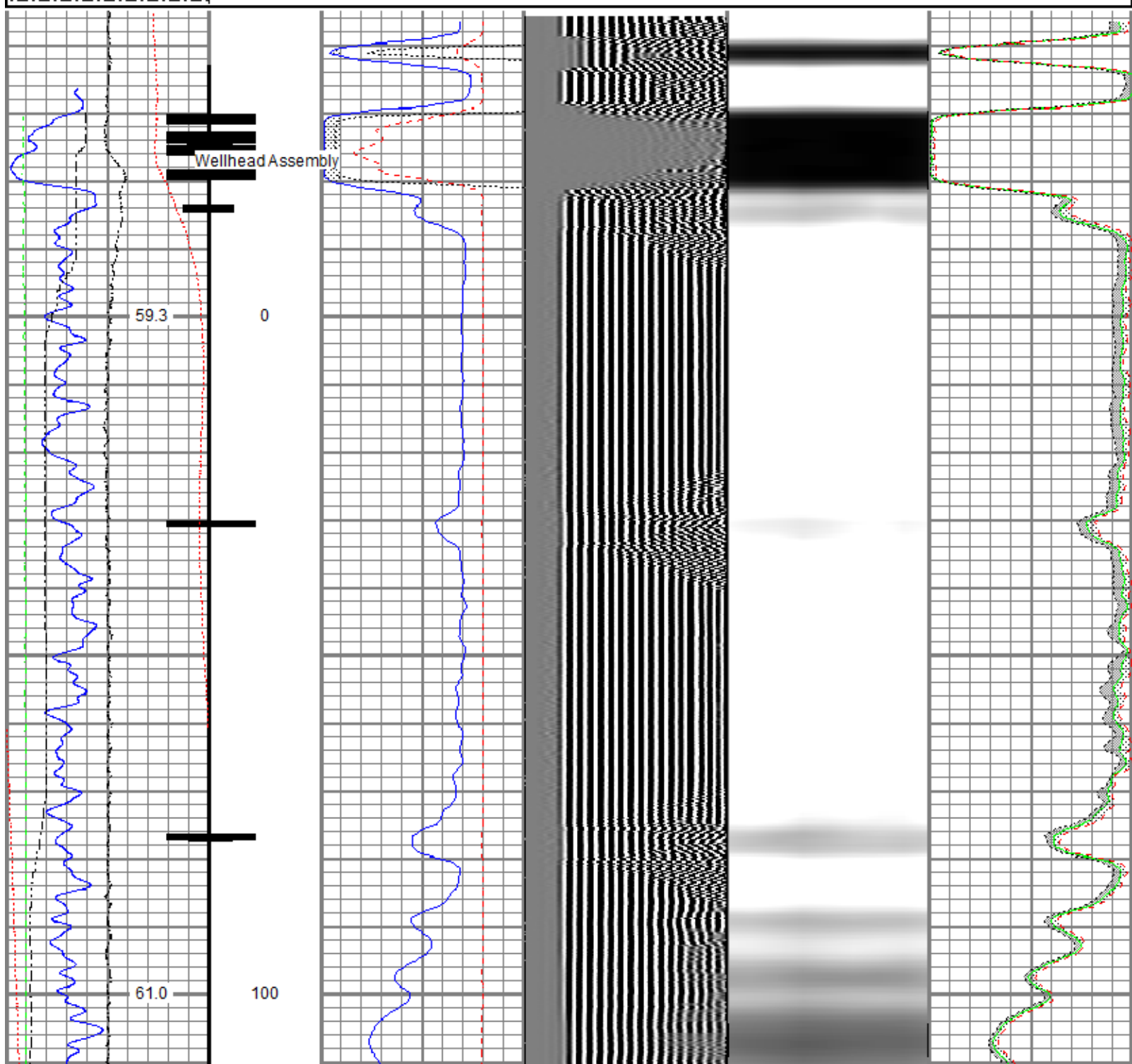
Log ran as per customer request
Log measured from Ground Level at 0 FT
Depth referenced to Casing Tally reported Marker Joint at 6763 FT
Adjusted -20 FT to correlate with Marker Joint
Log ran from deep as possible to Surface
Log ran with 2500 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations
Thank you for choosing Reliance Oilfield Services, LLC!!

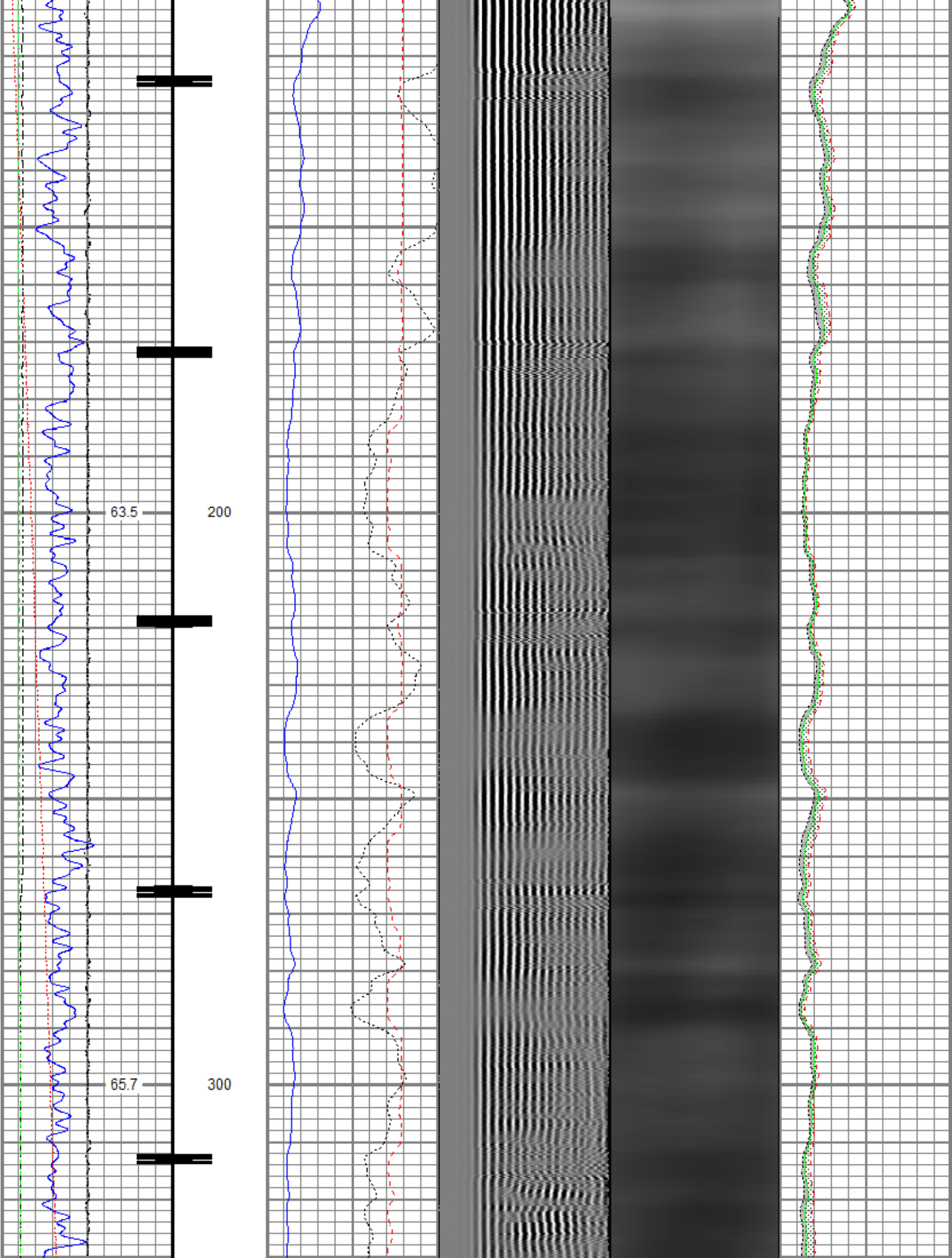
Main Pass

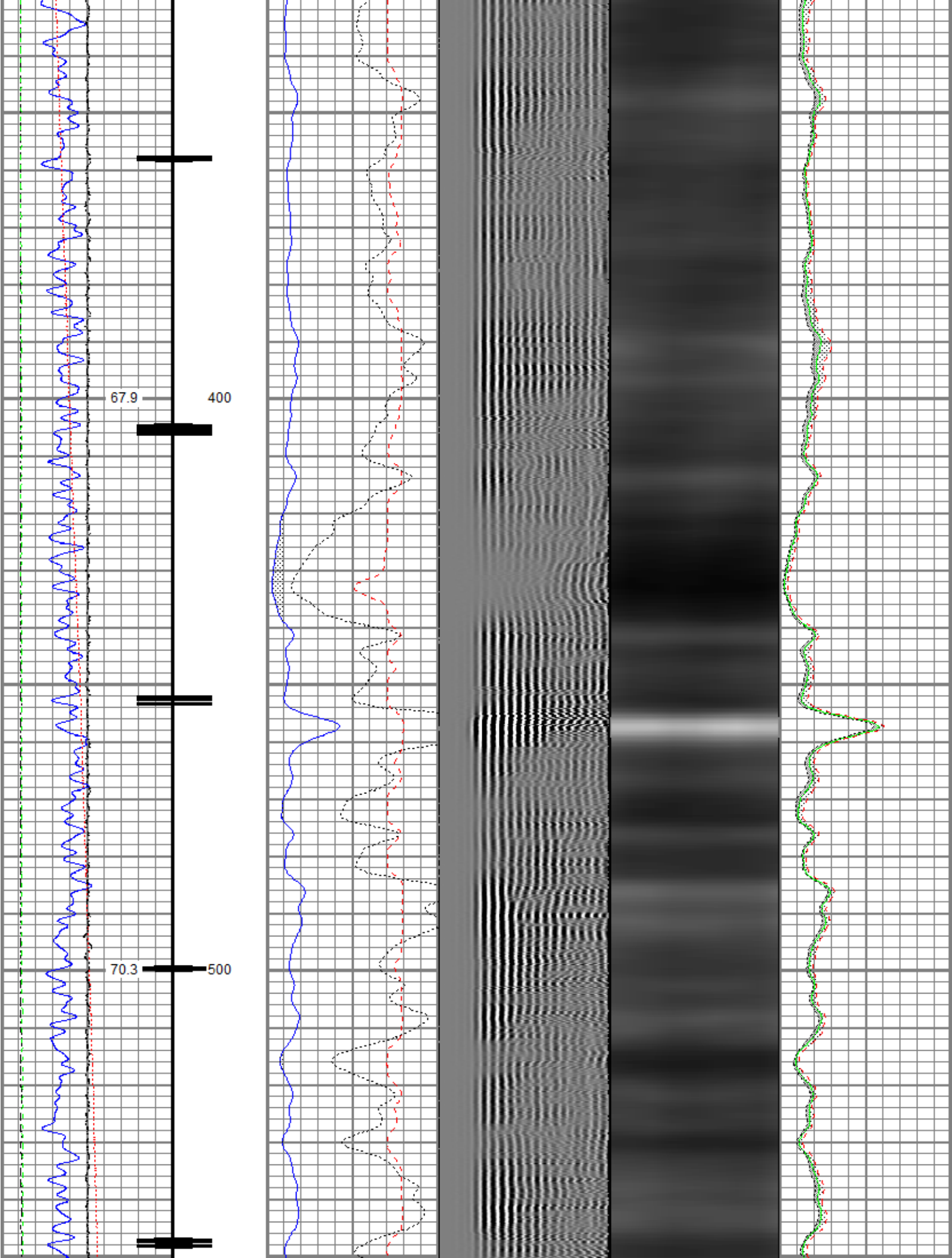


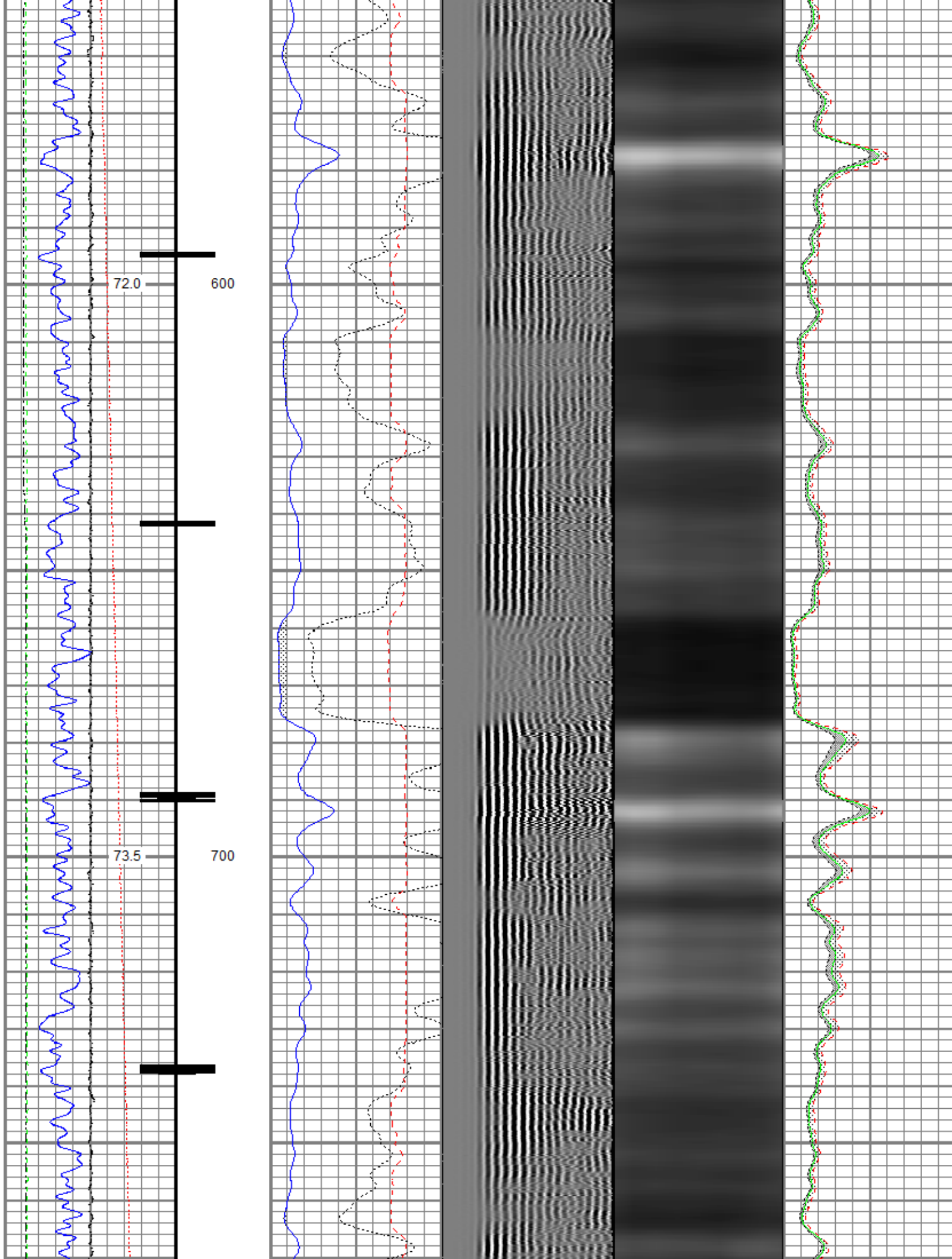
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Dataset Pathname	main.1
Presentation Format	ros_radri
Dataset Creation	Fri Mar 16 10:18:36 2018
Charted by	Depth in Feet scaled 1:240

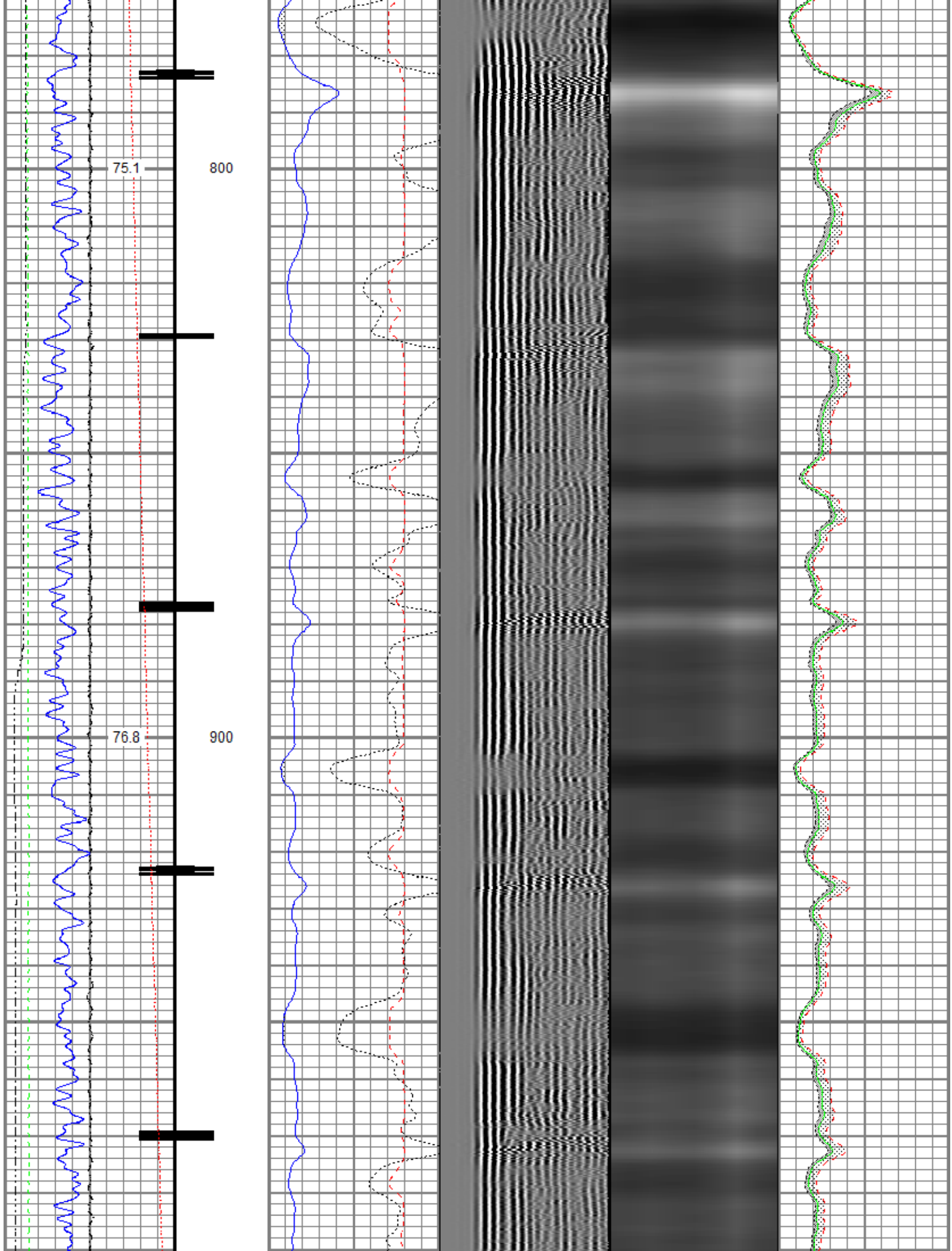
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200	1200		Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min) 150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

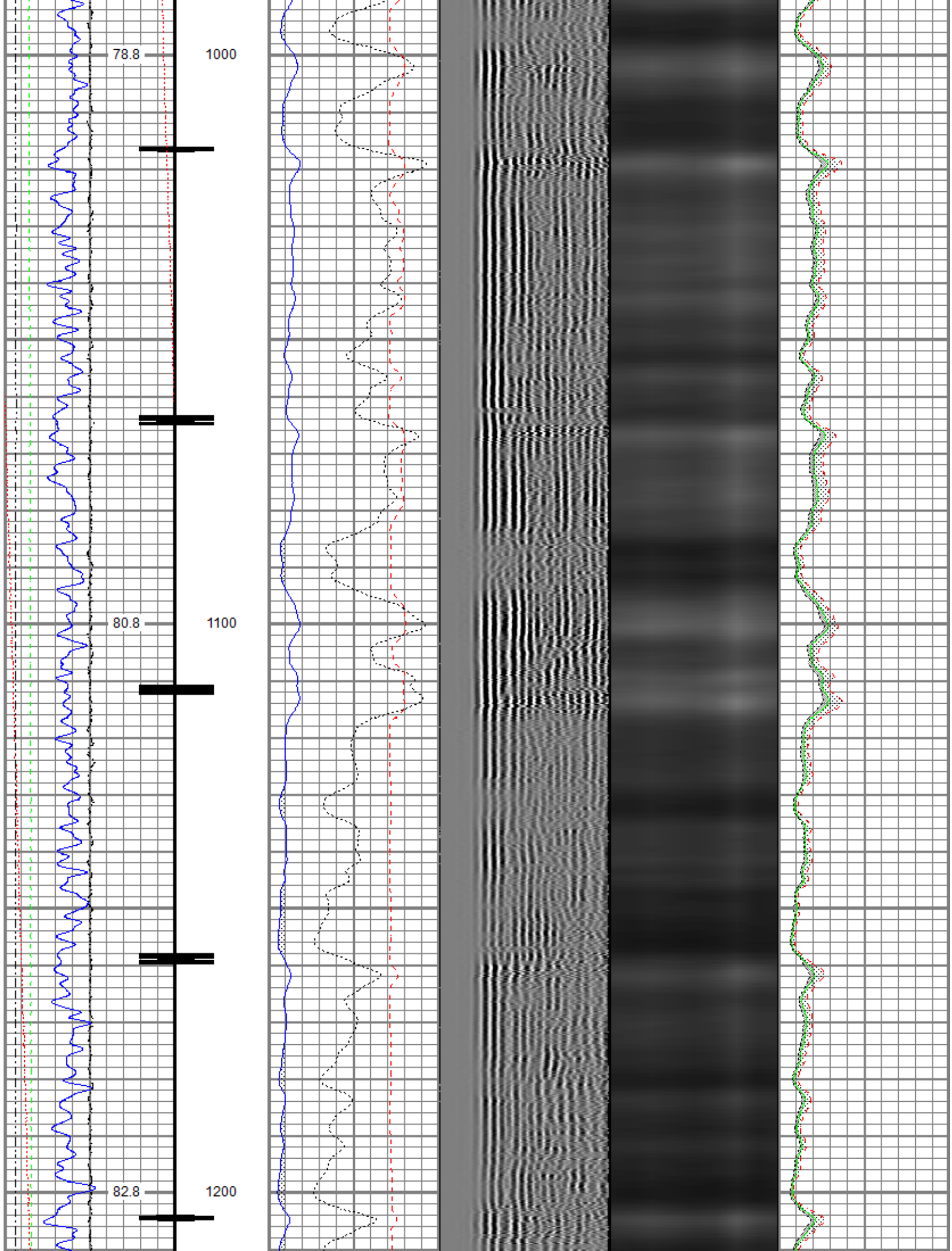


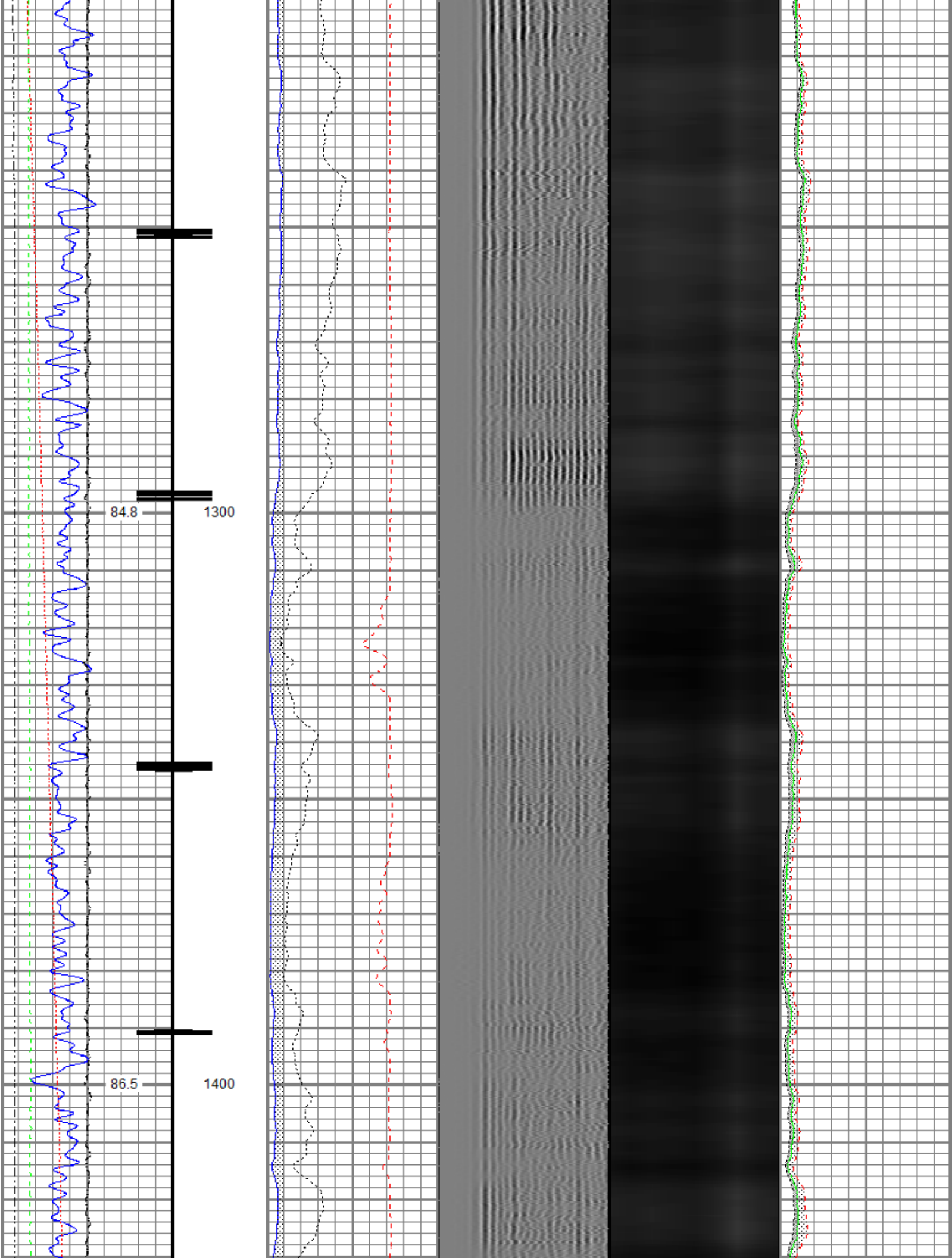


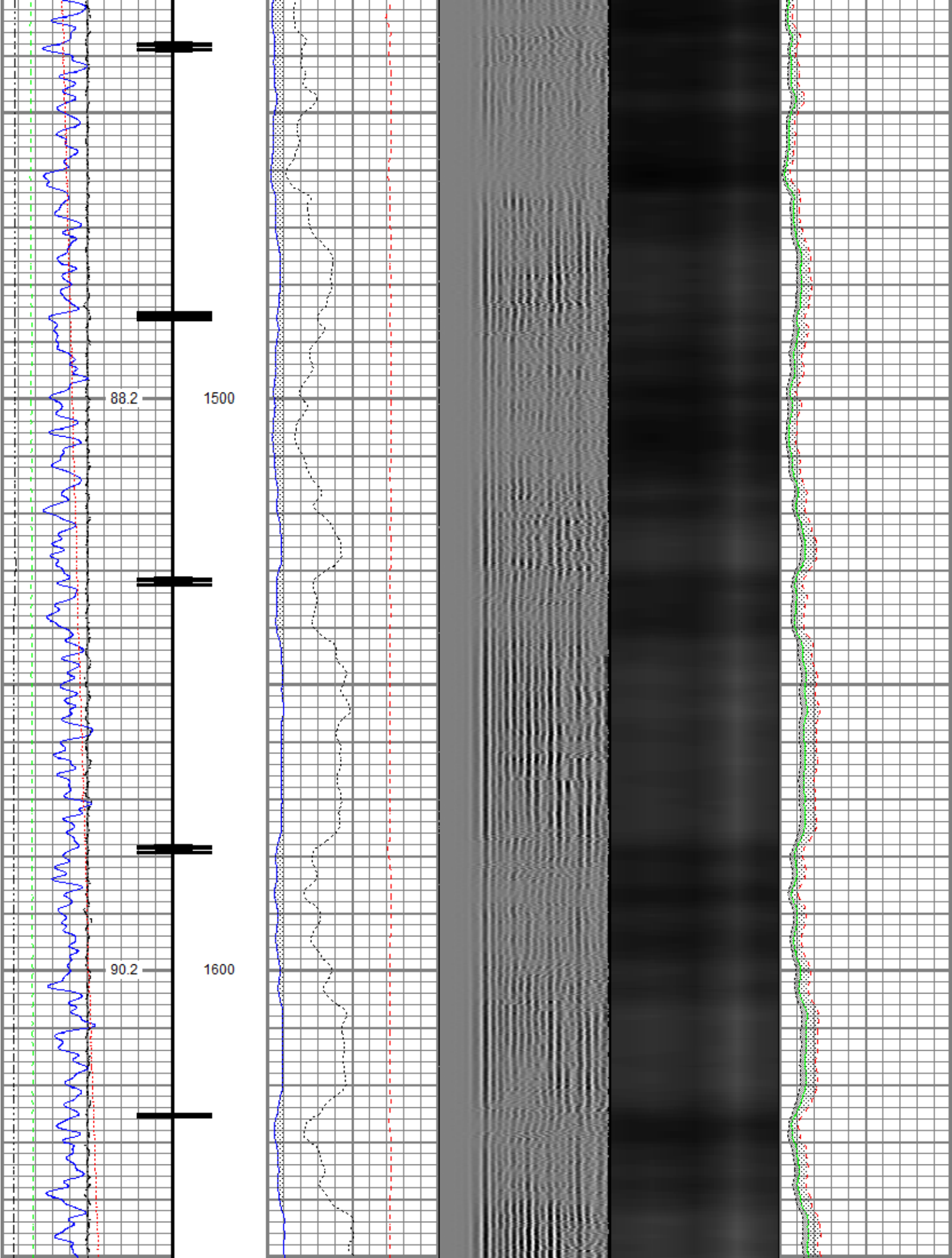


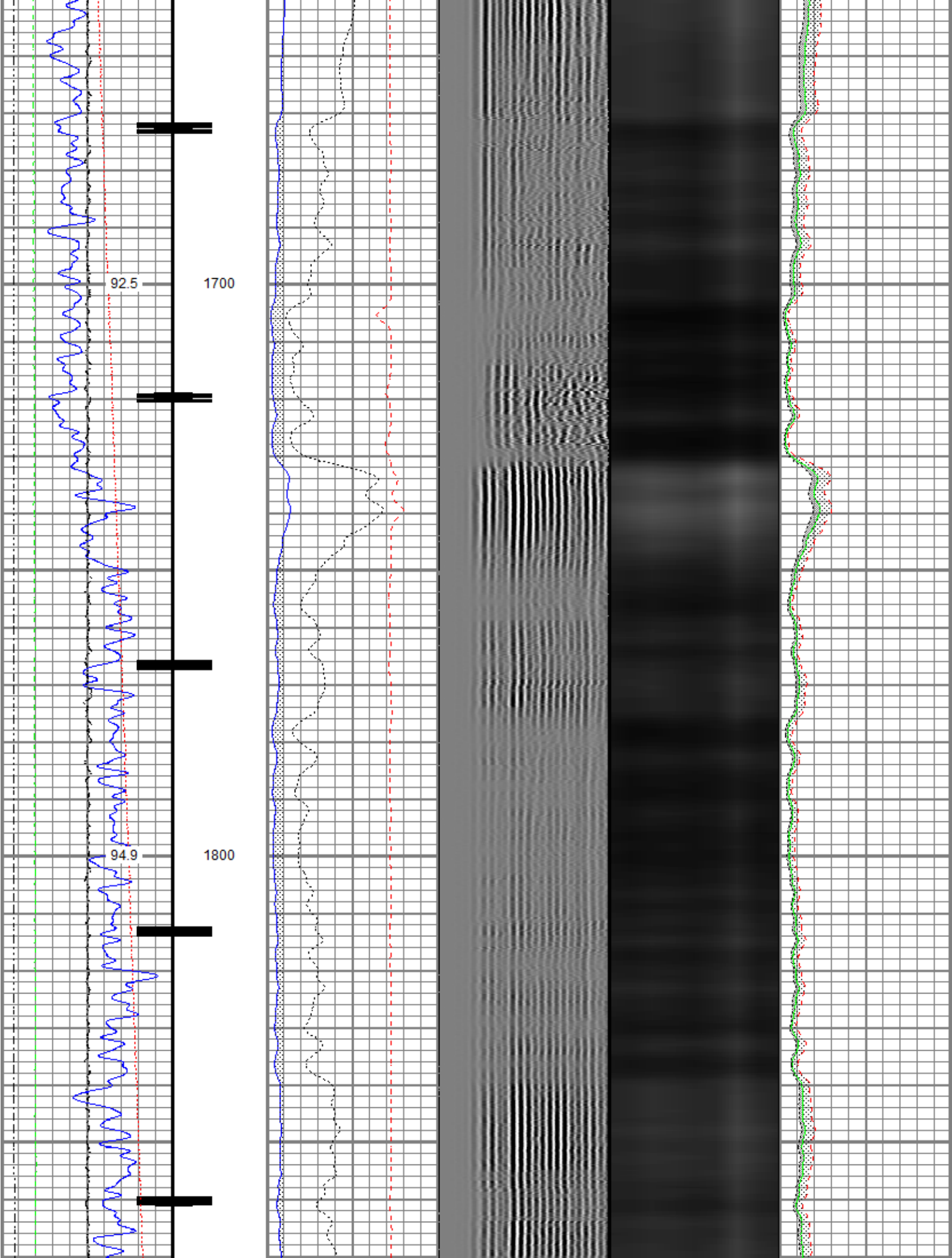


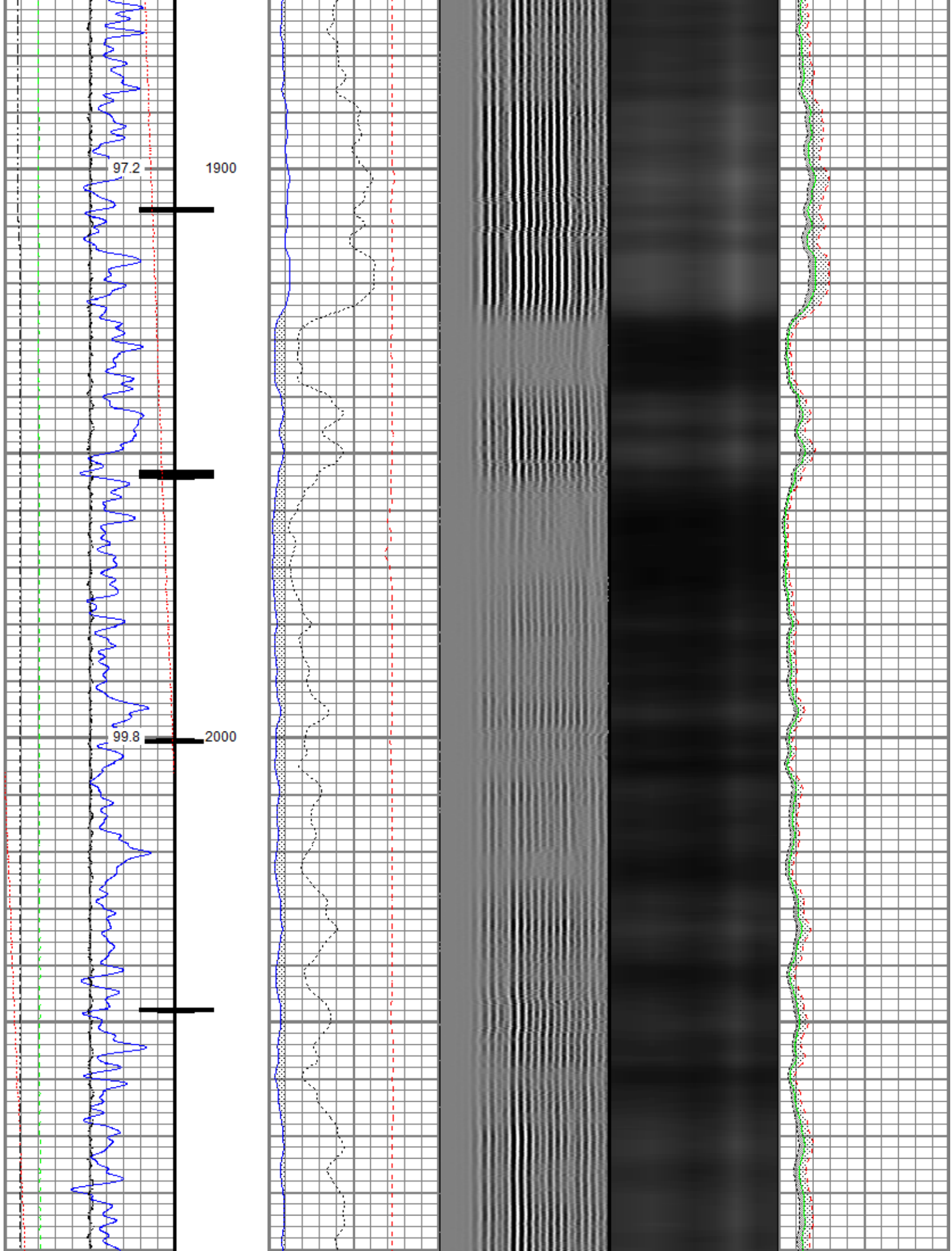


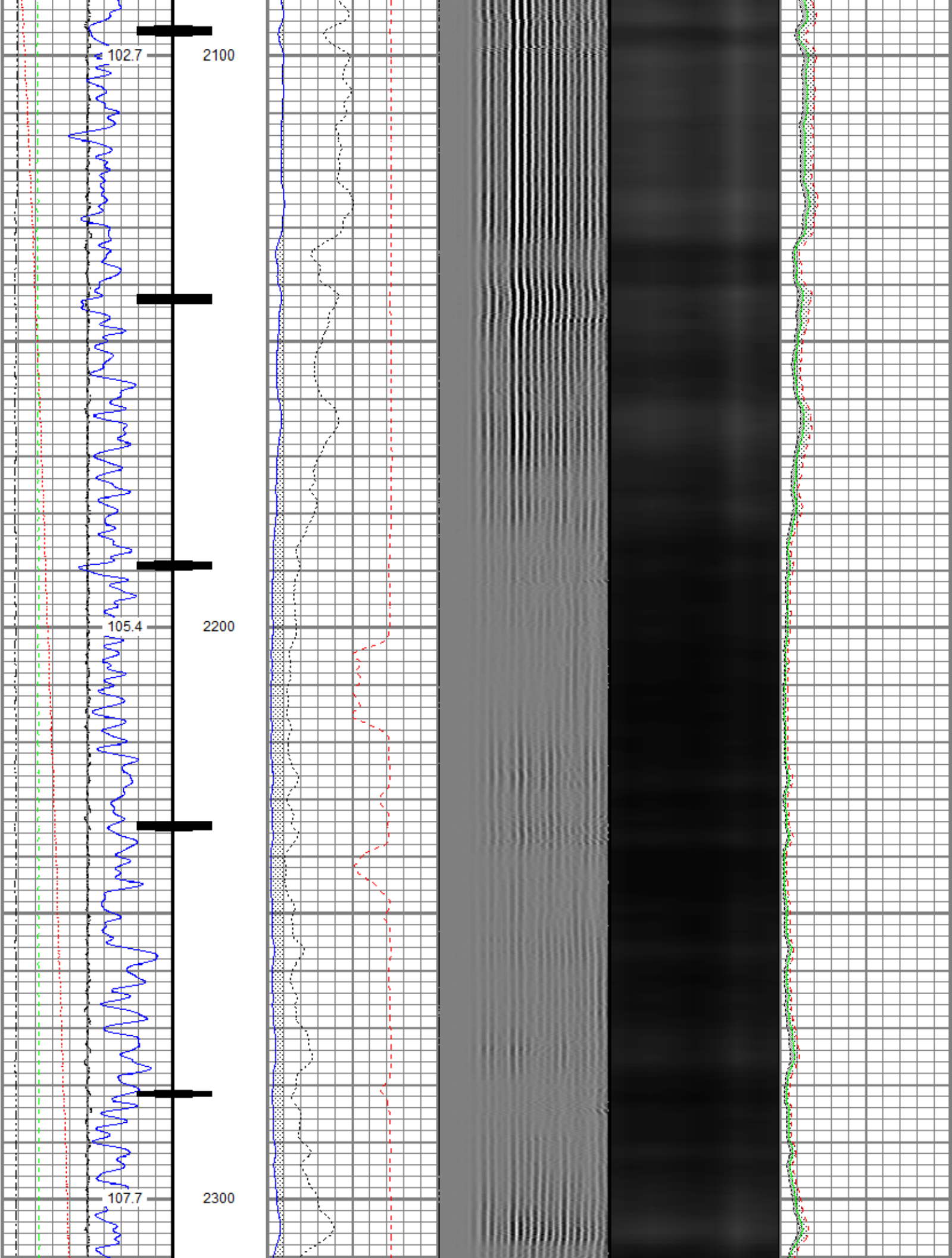


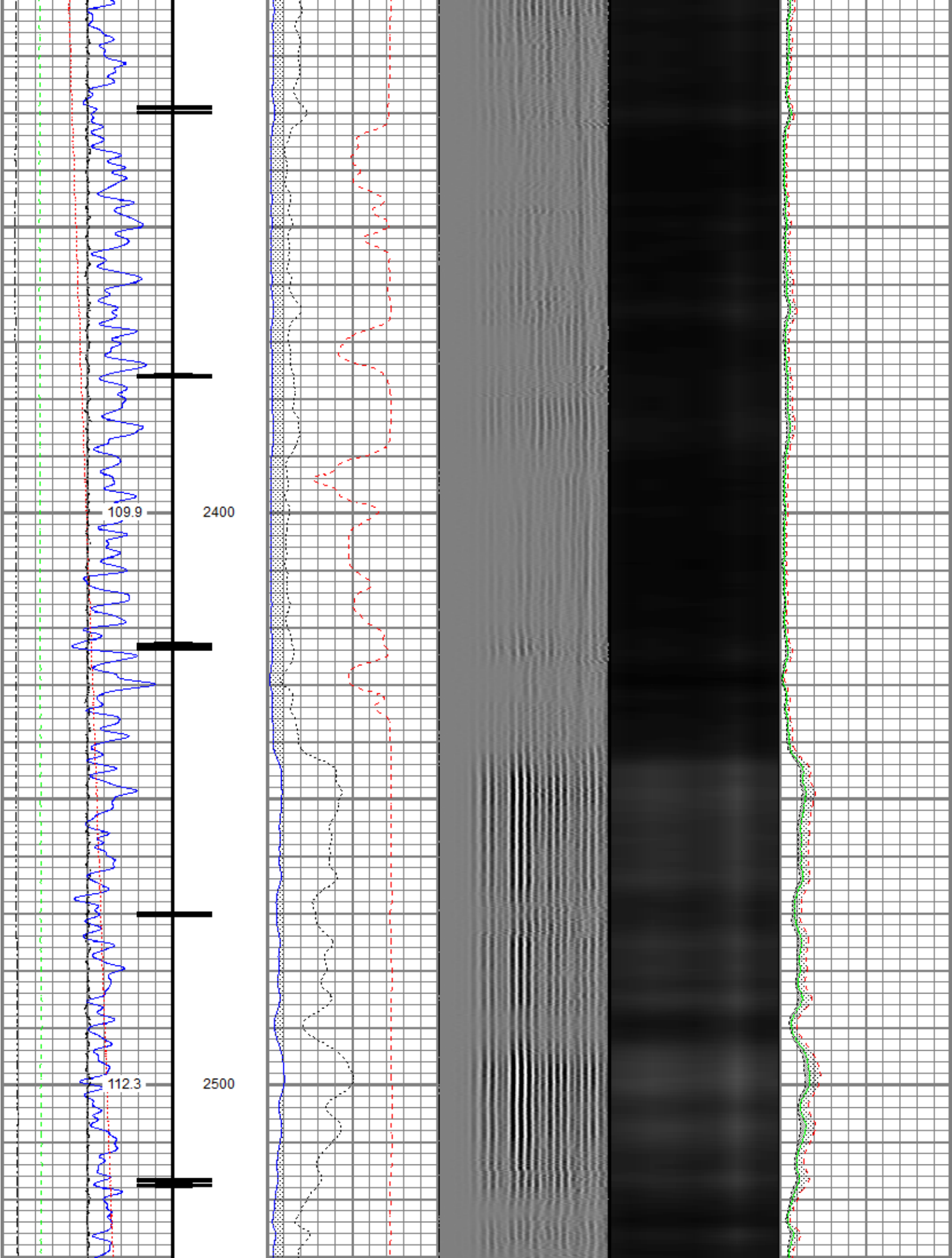


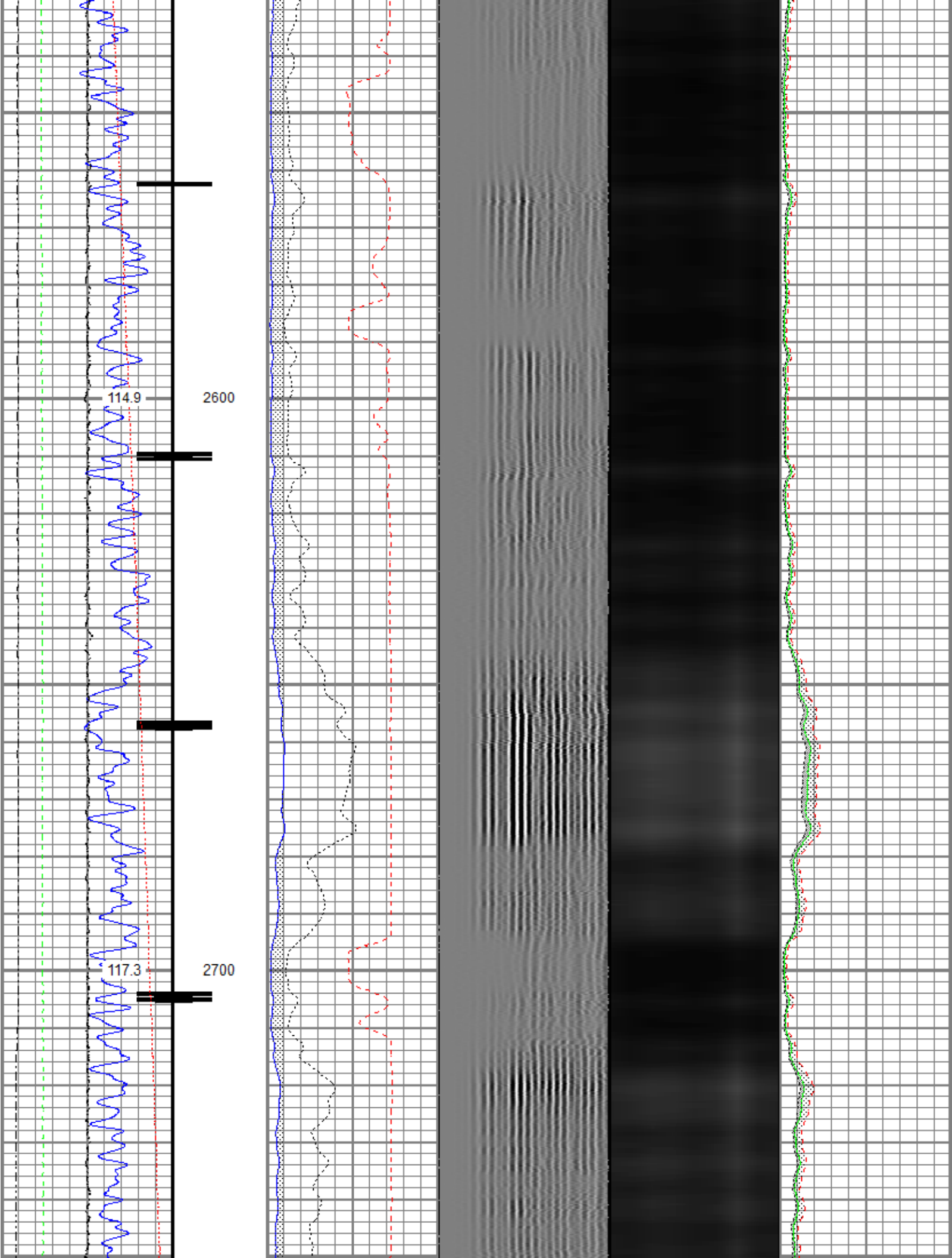


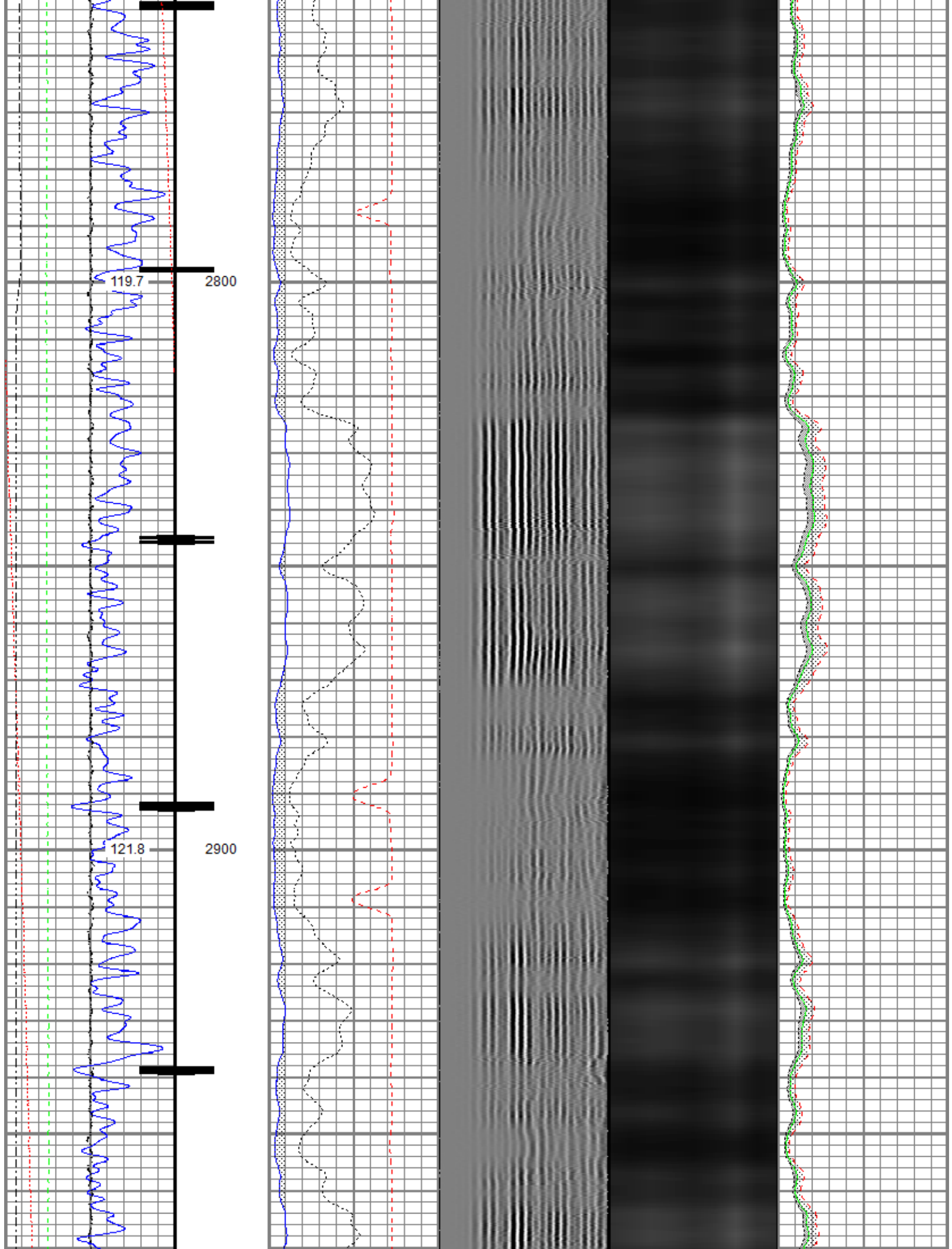


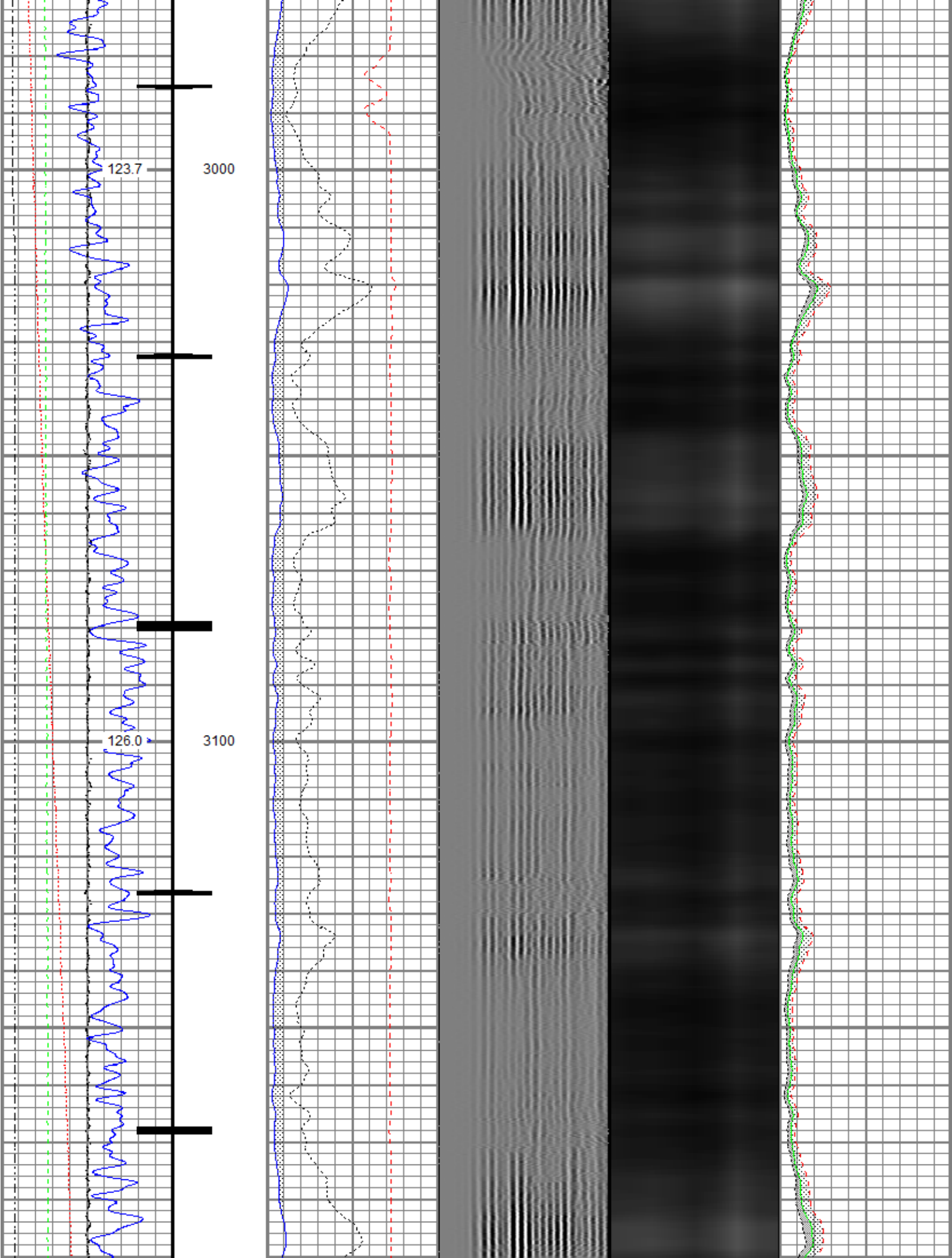


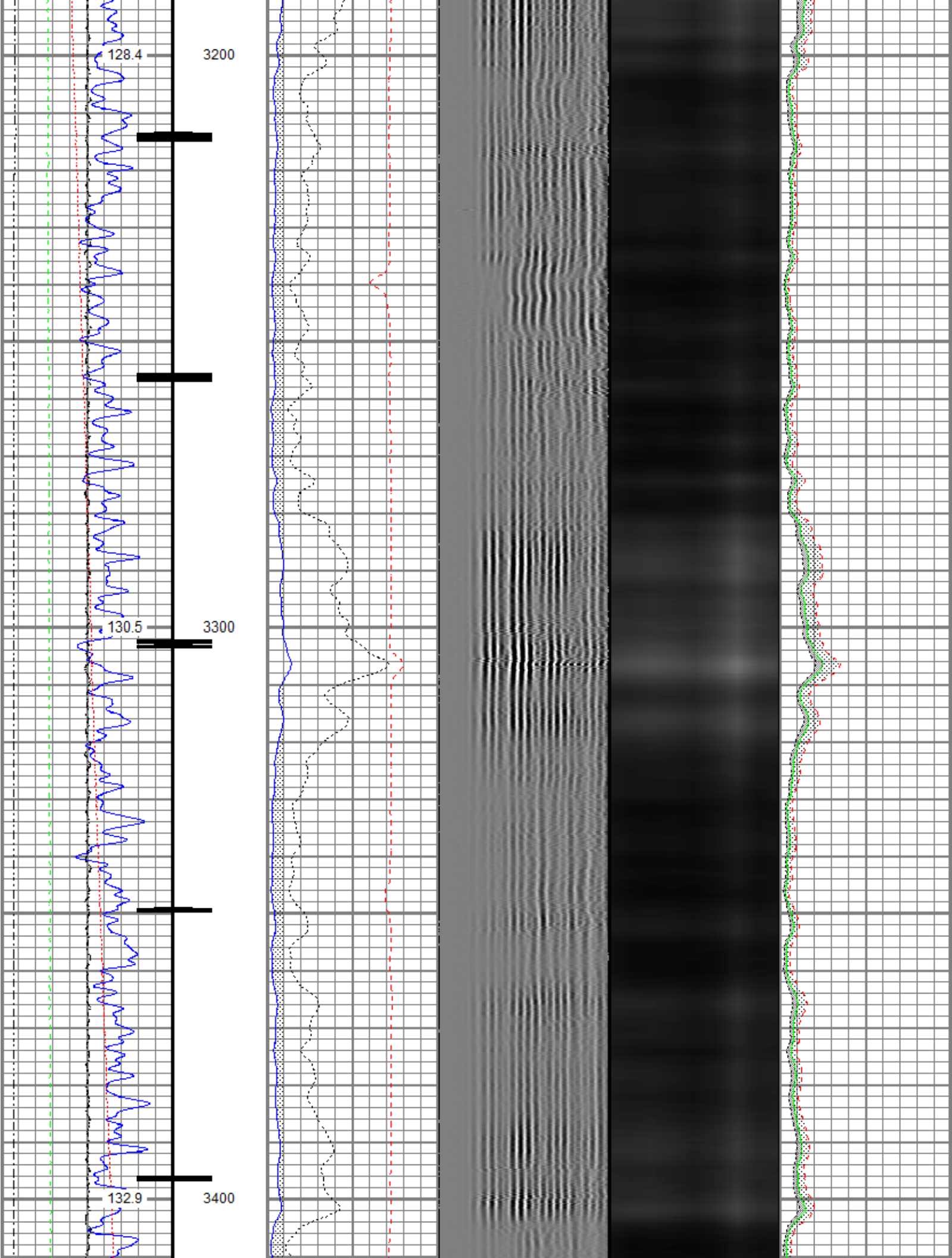


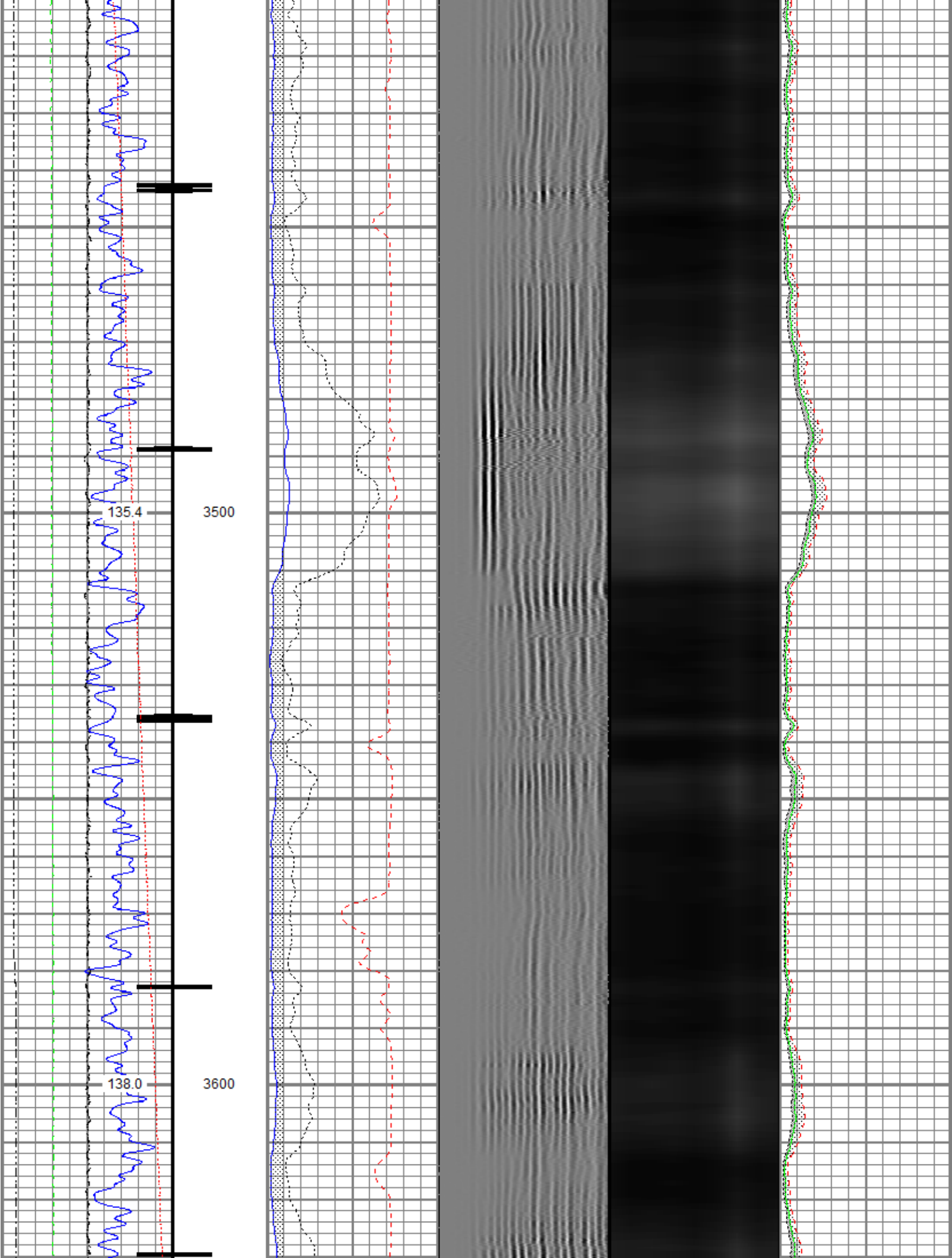


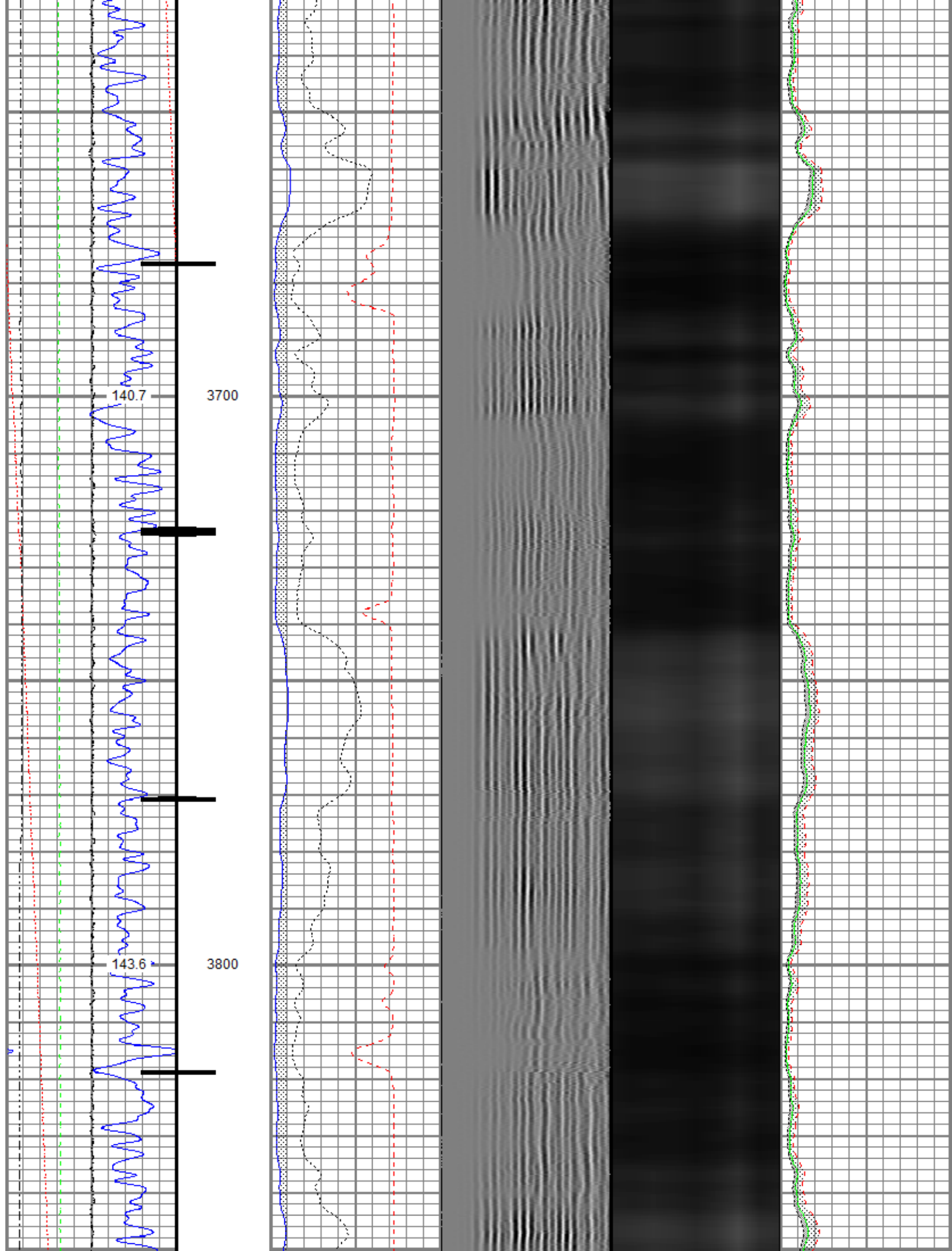


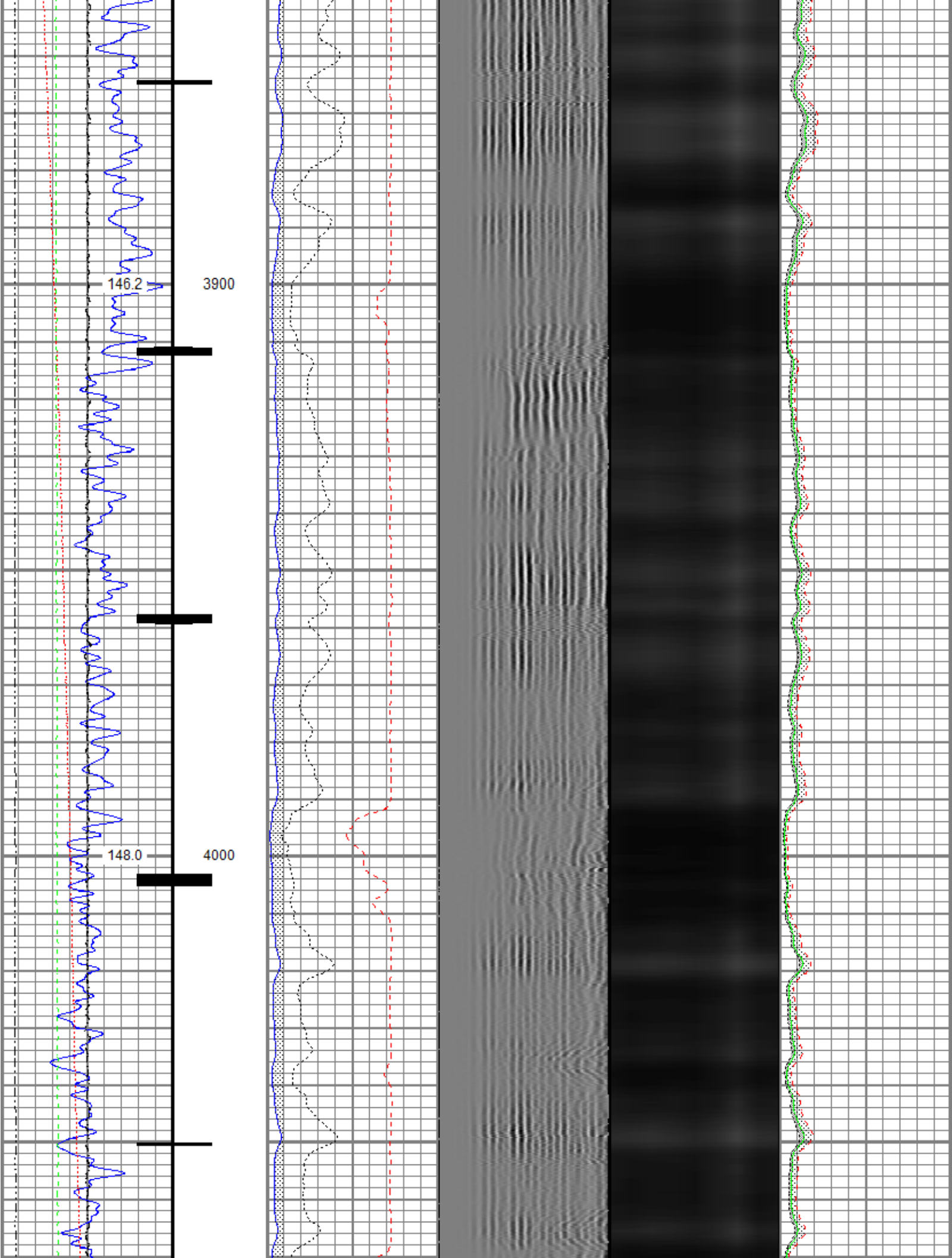


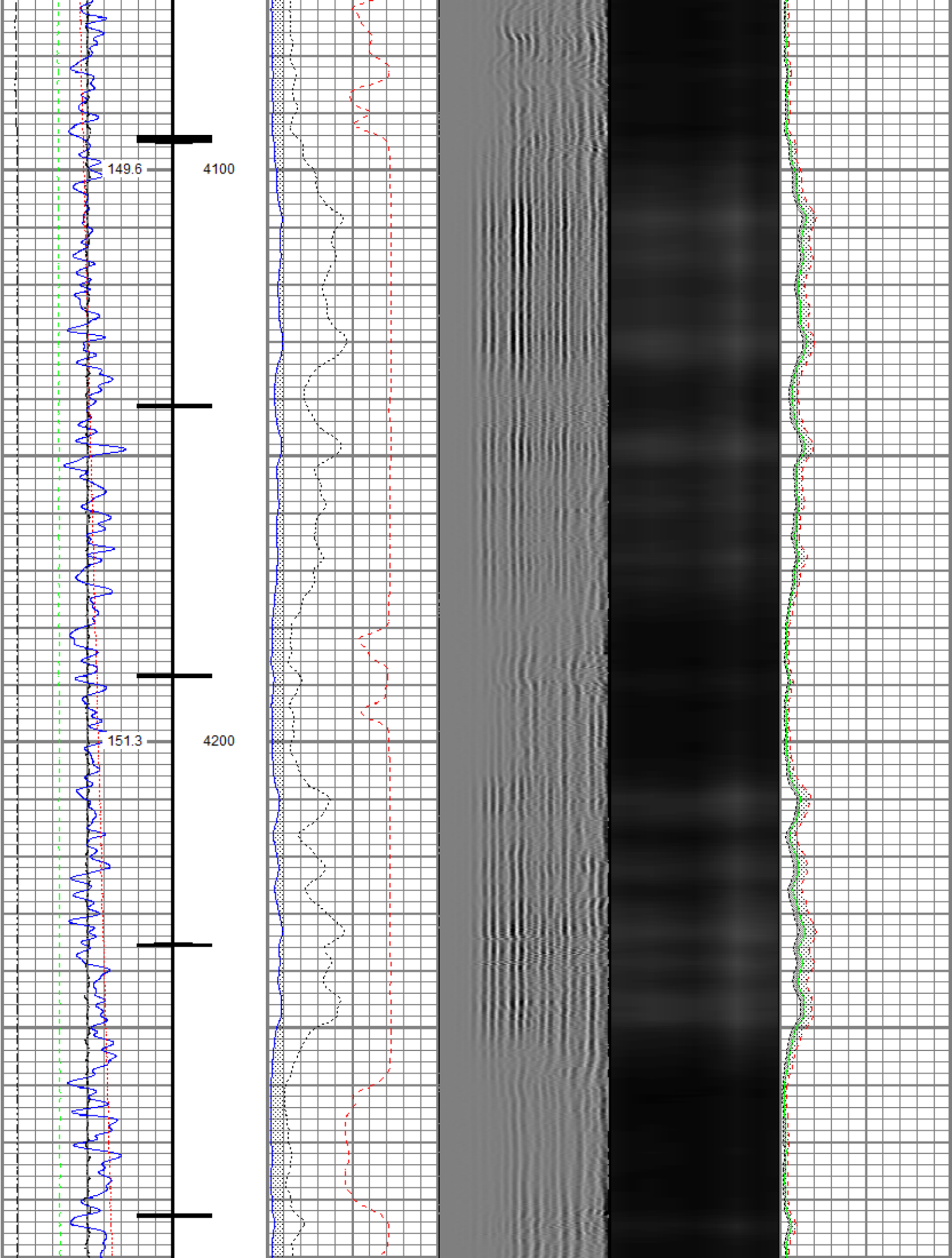


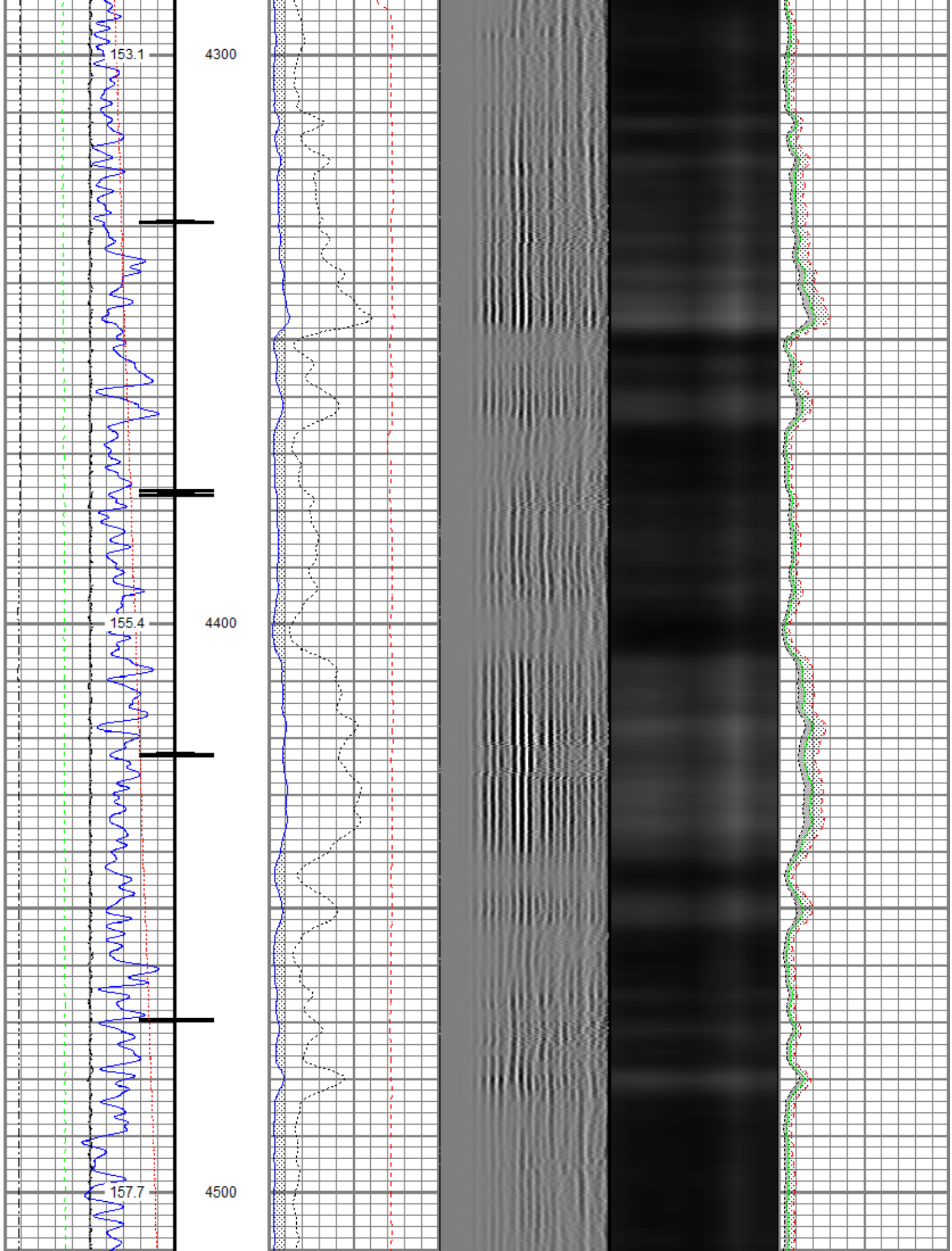


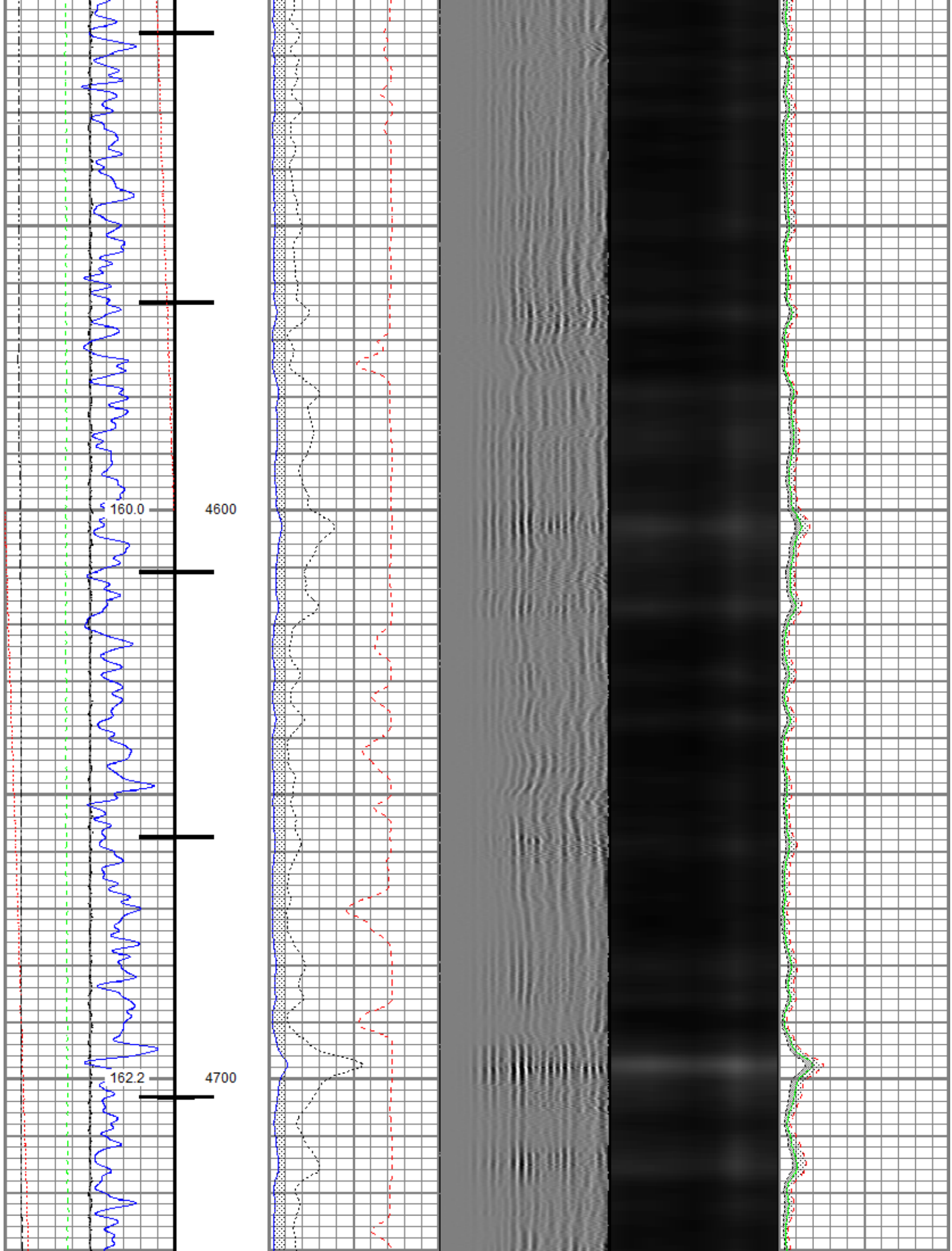


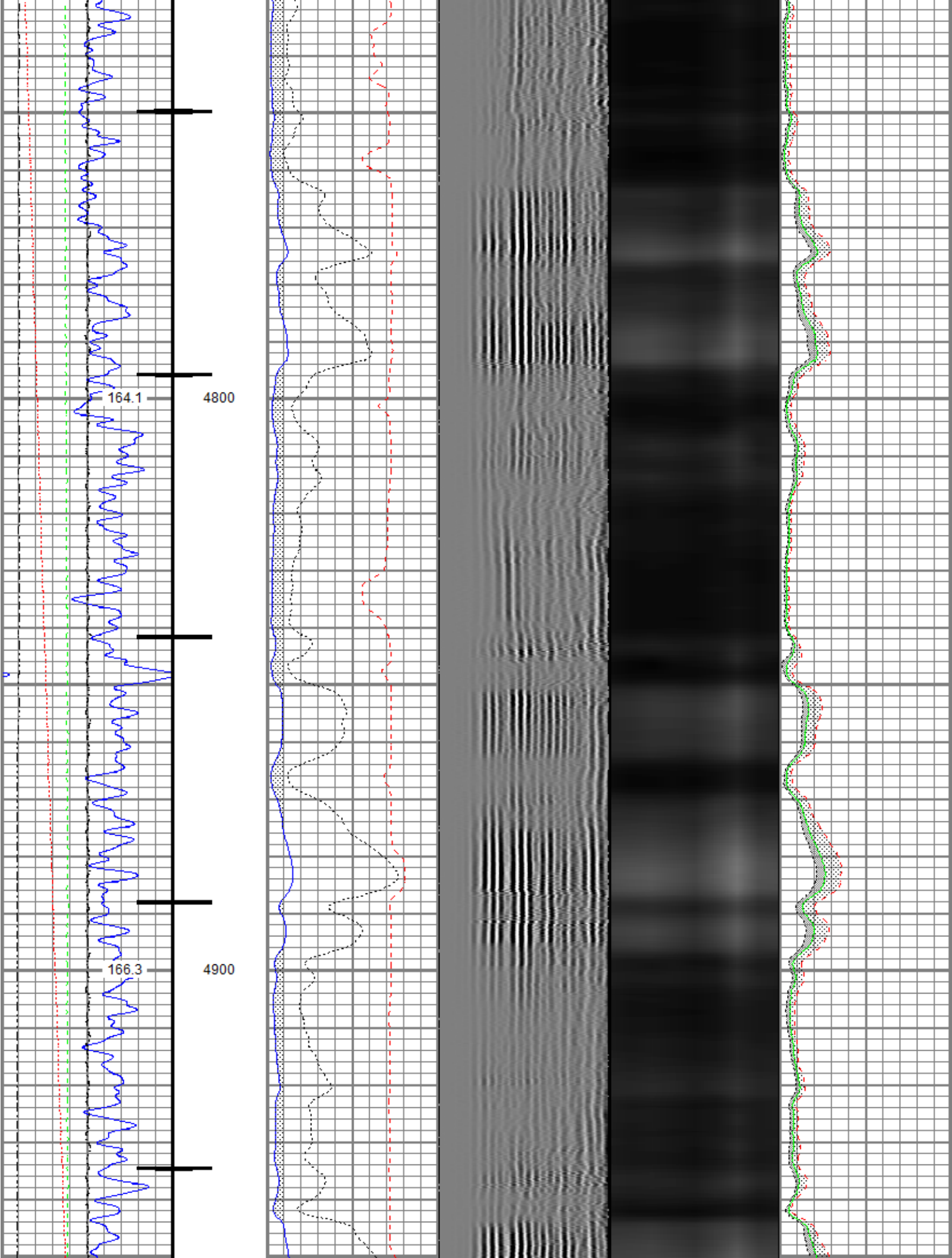


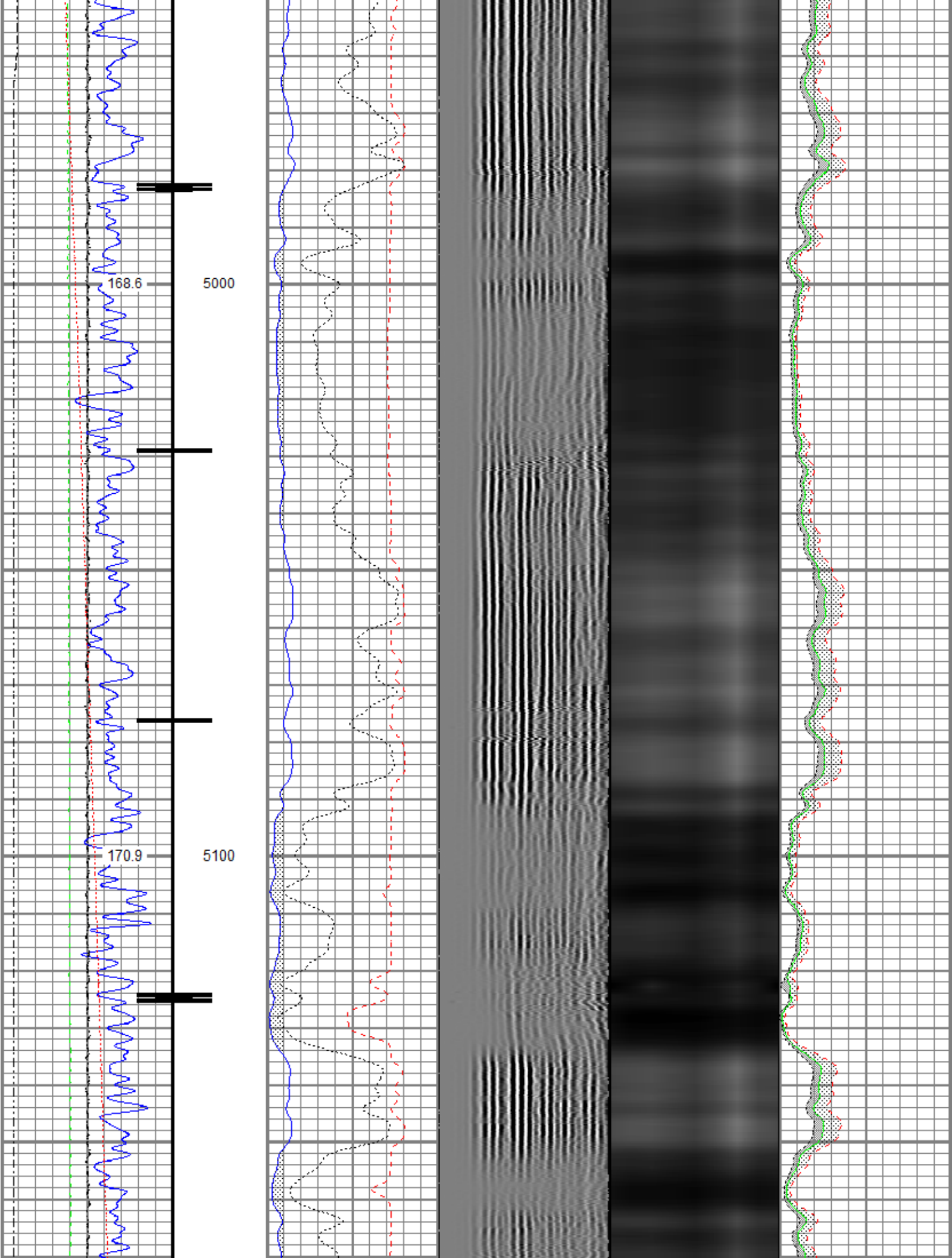


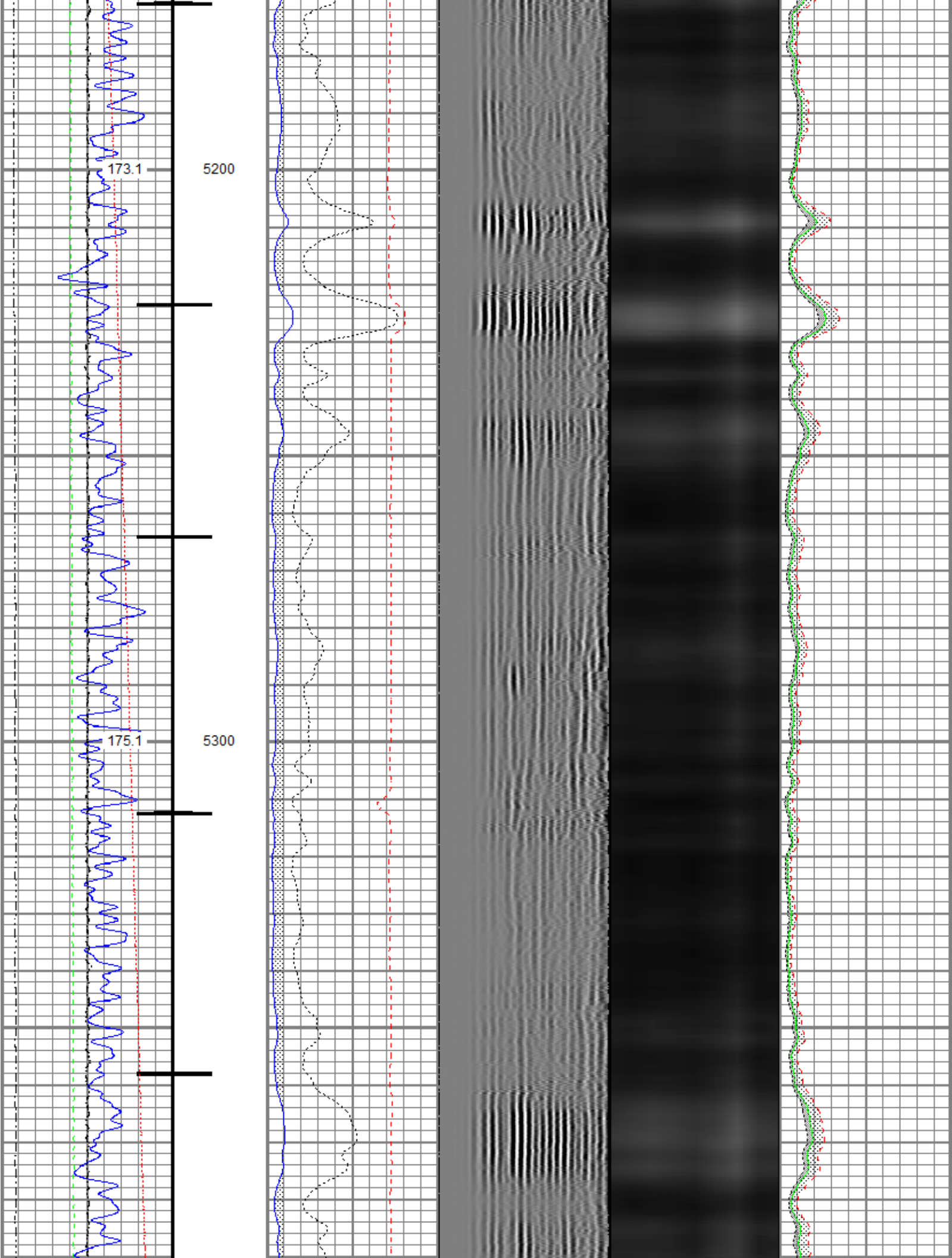


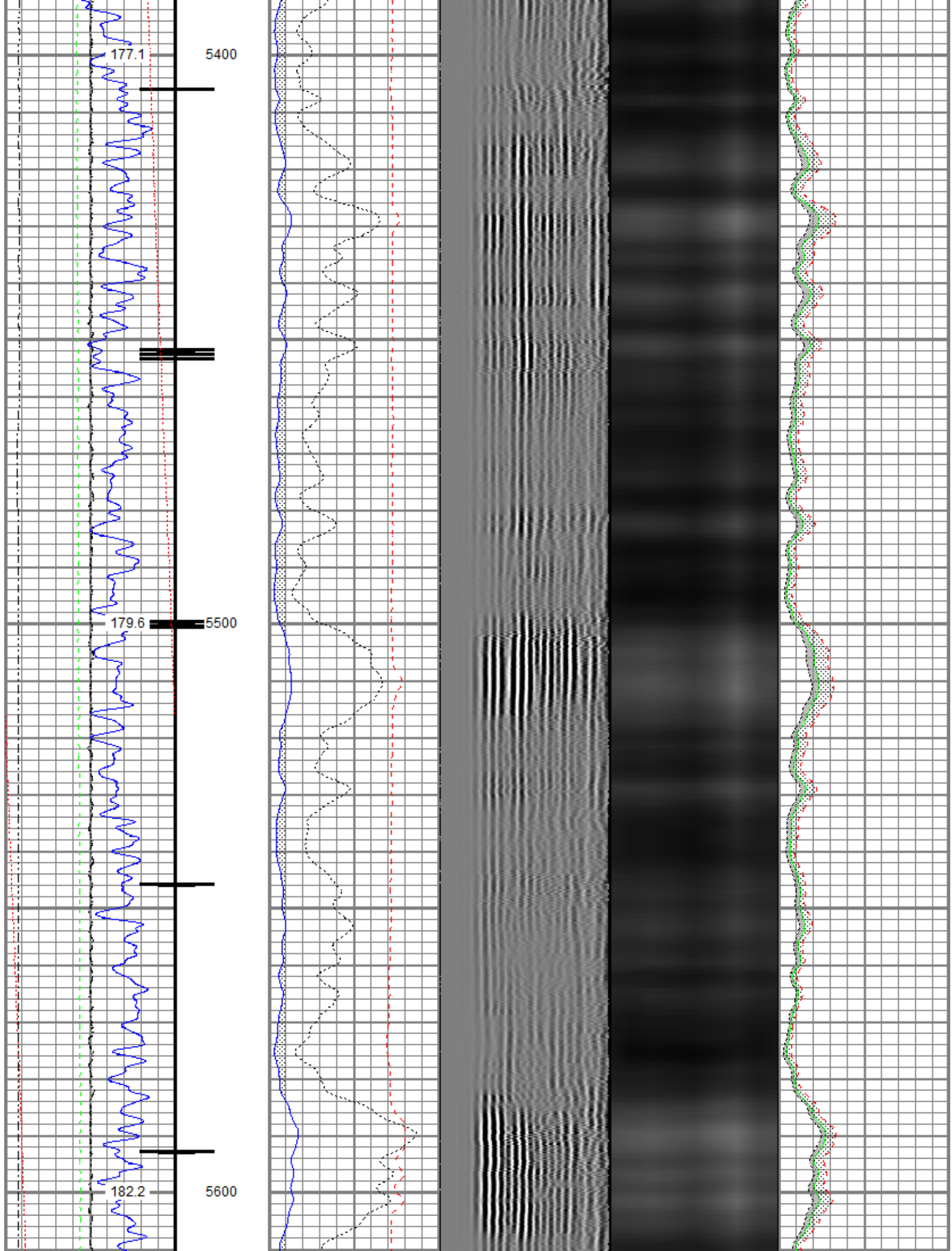


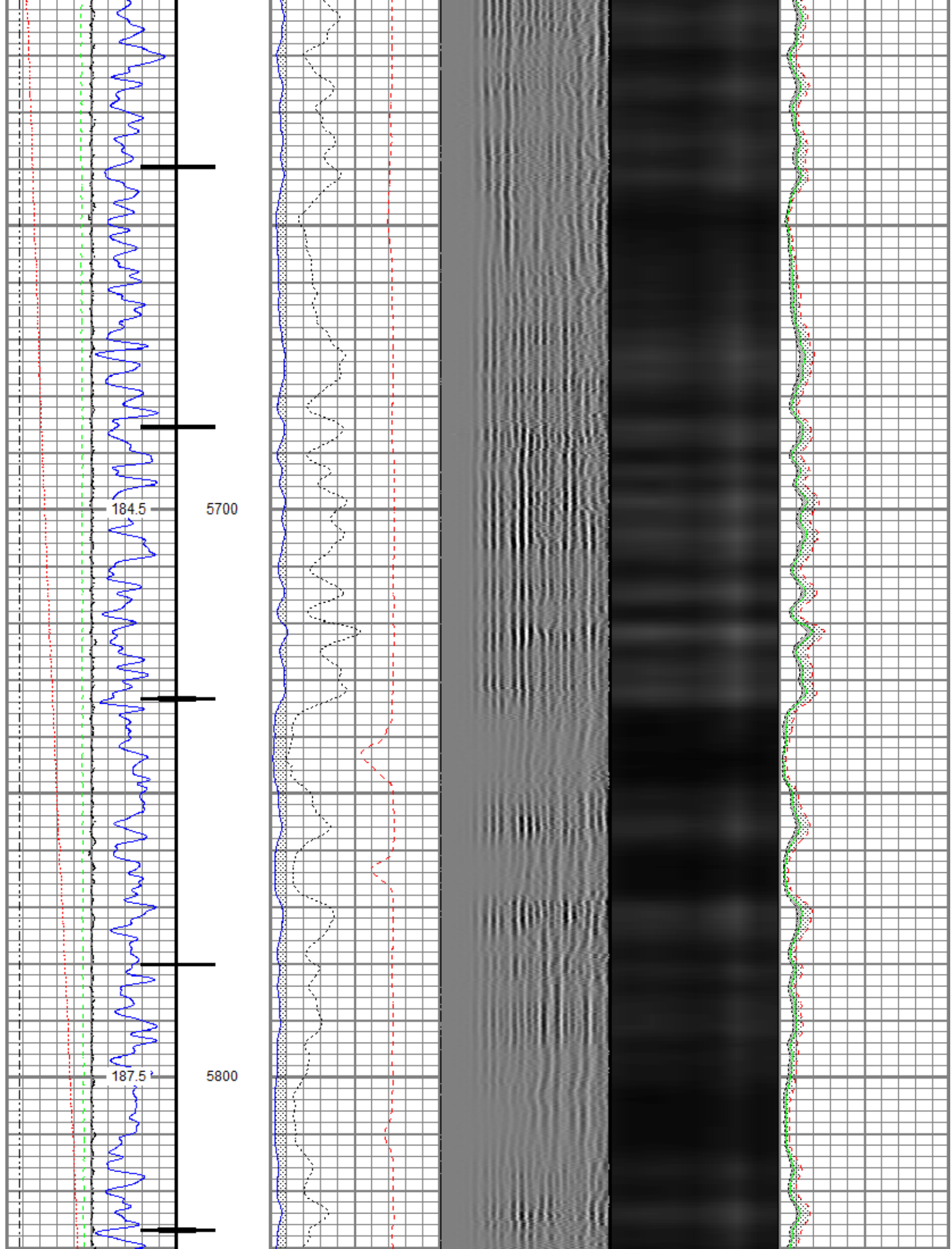


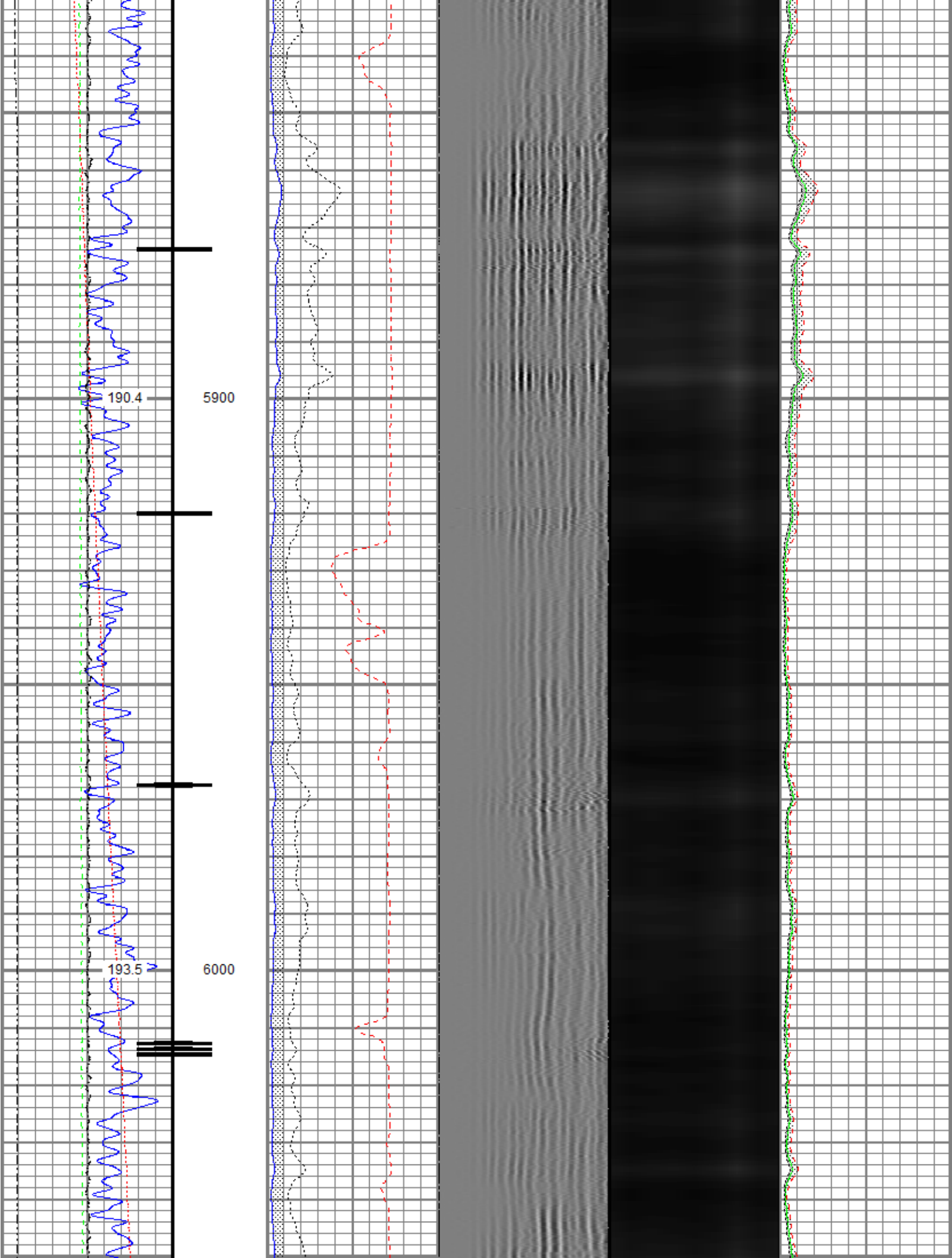


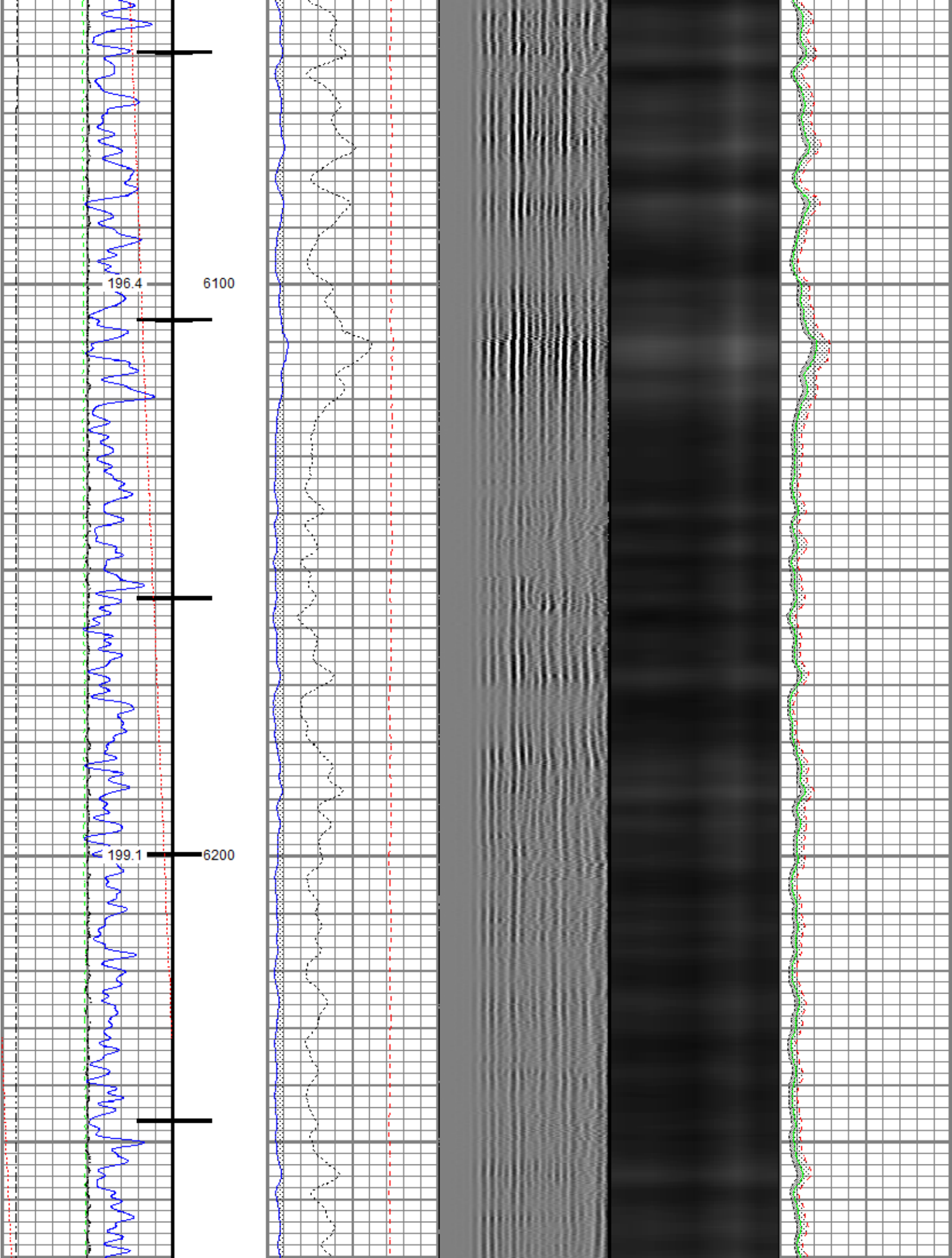


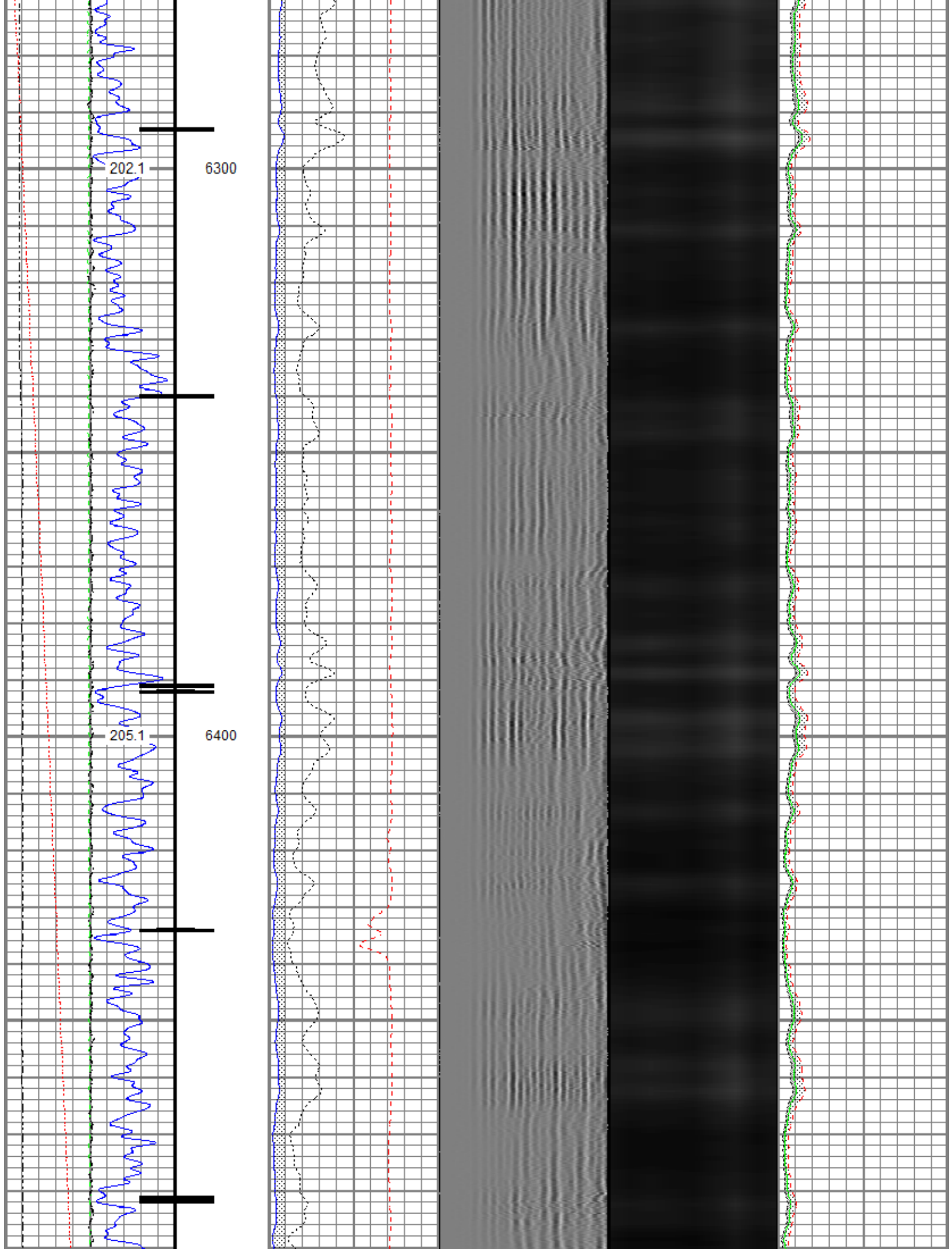


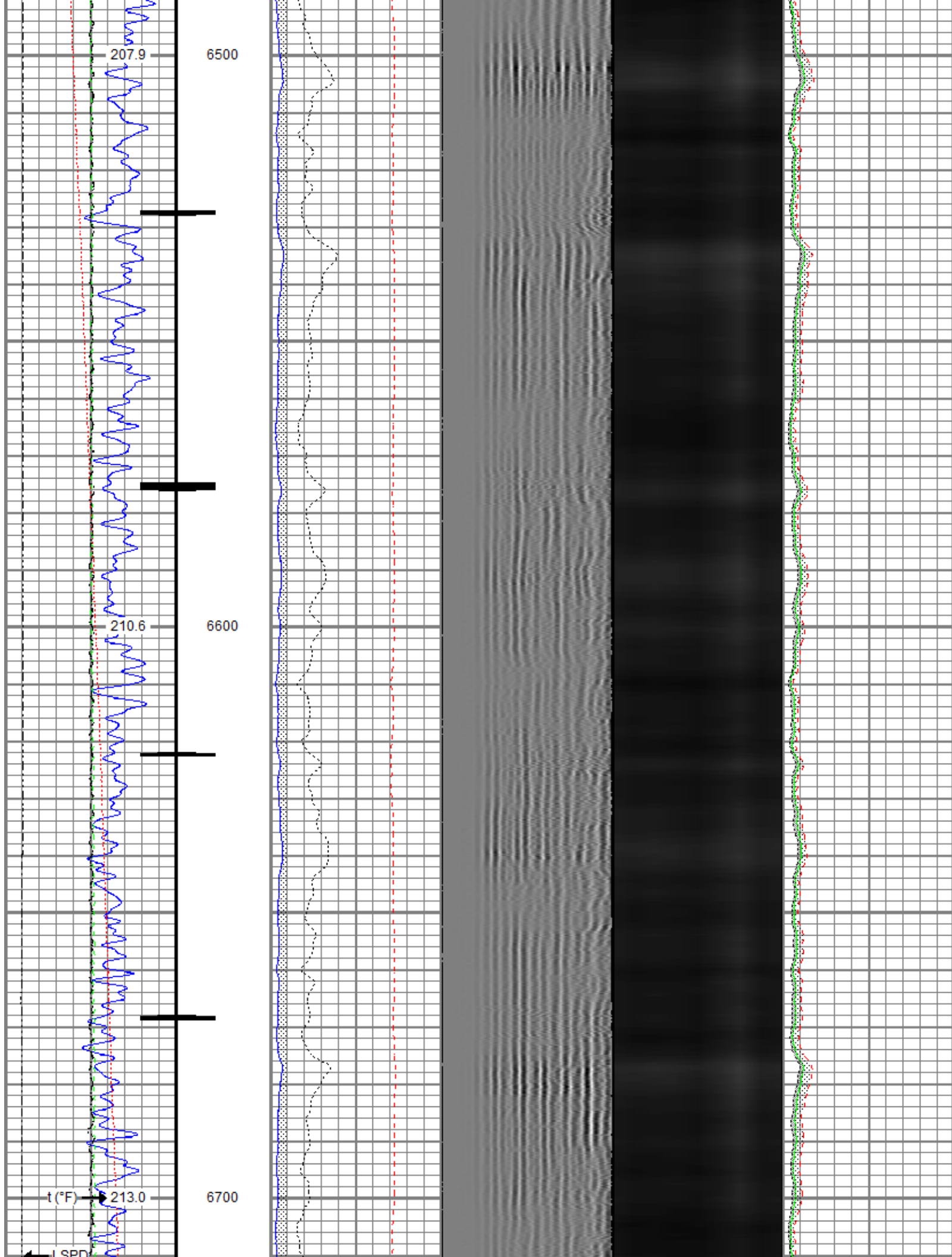


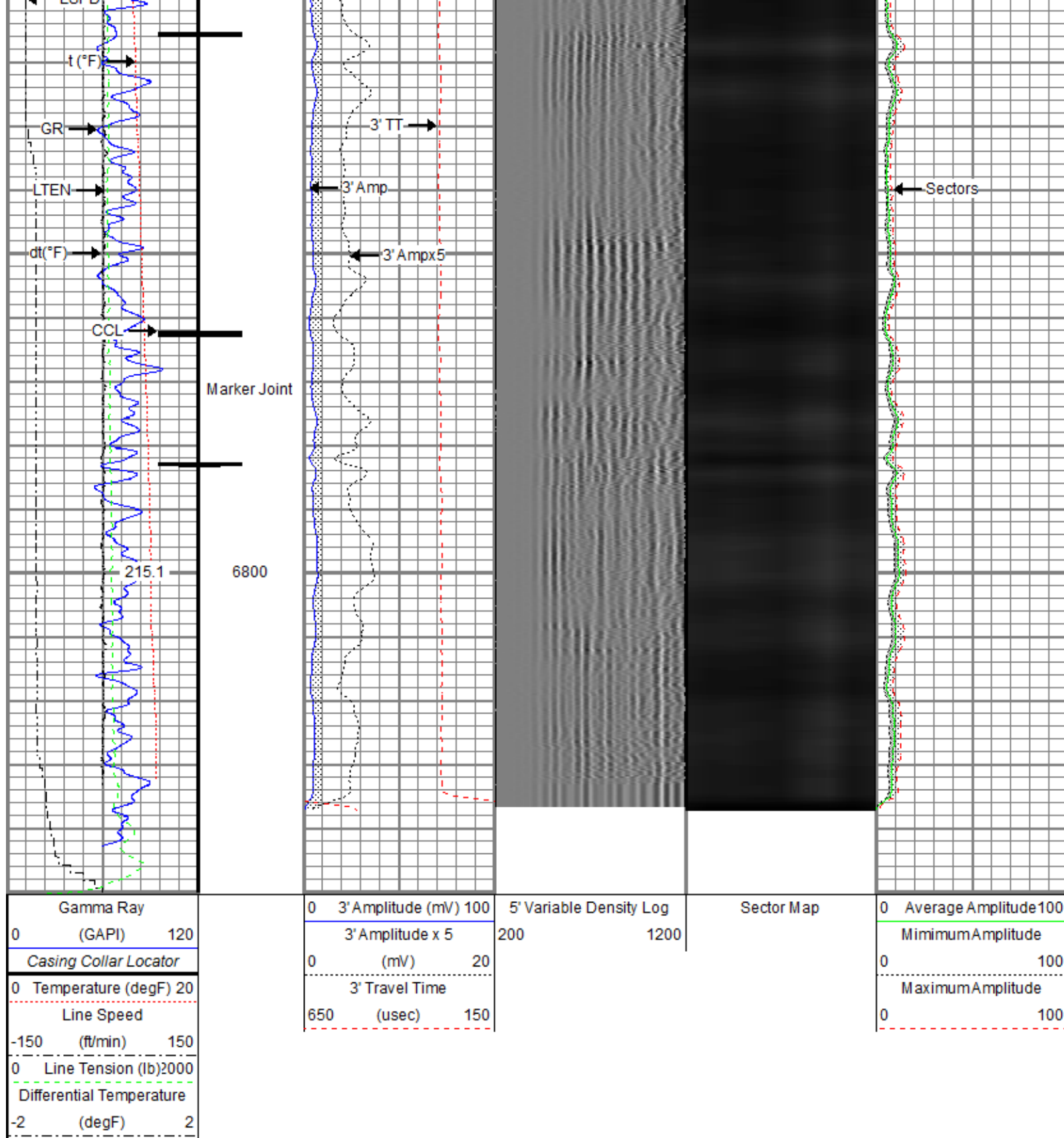










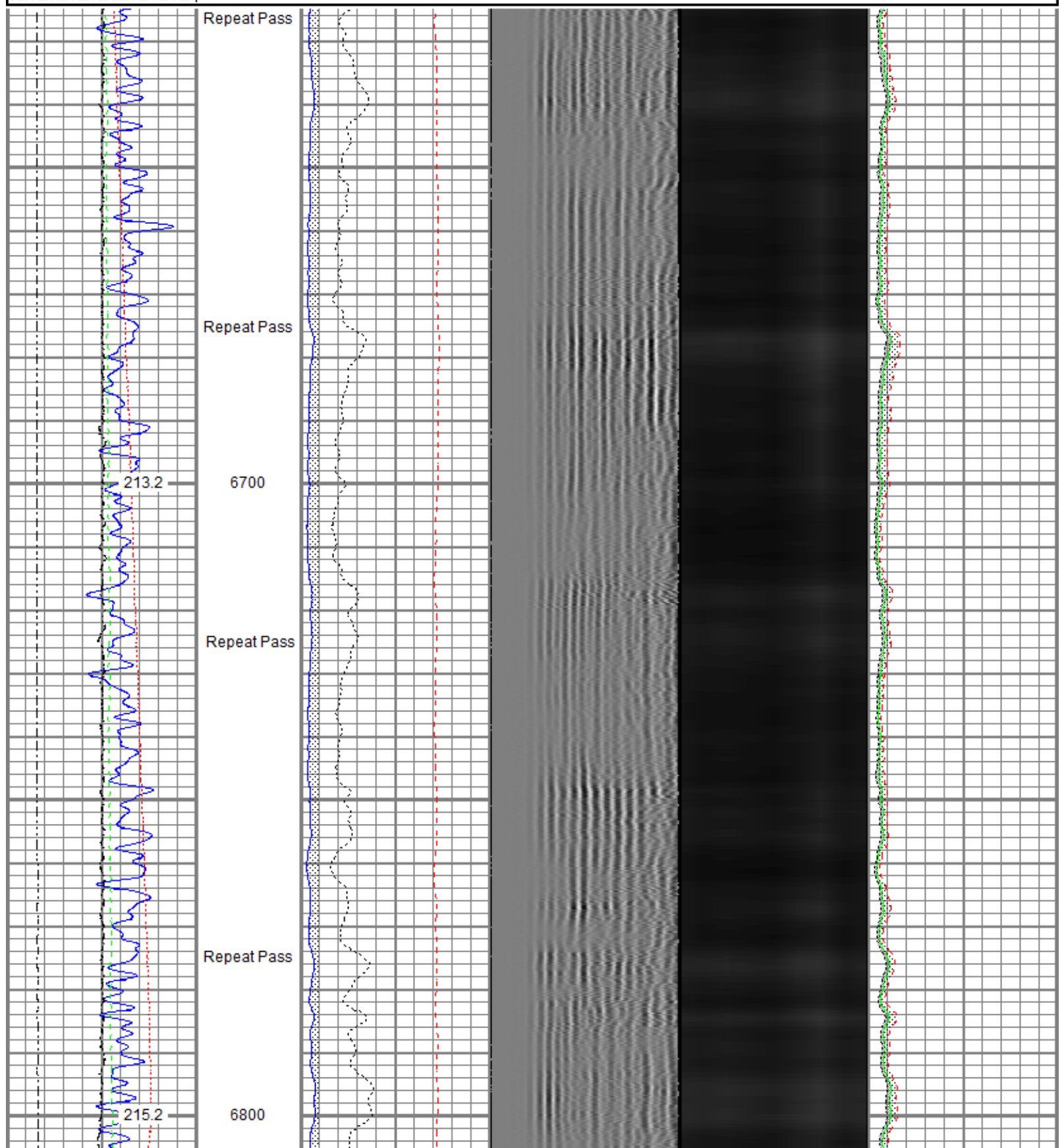


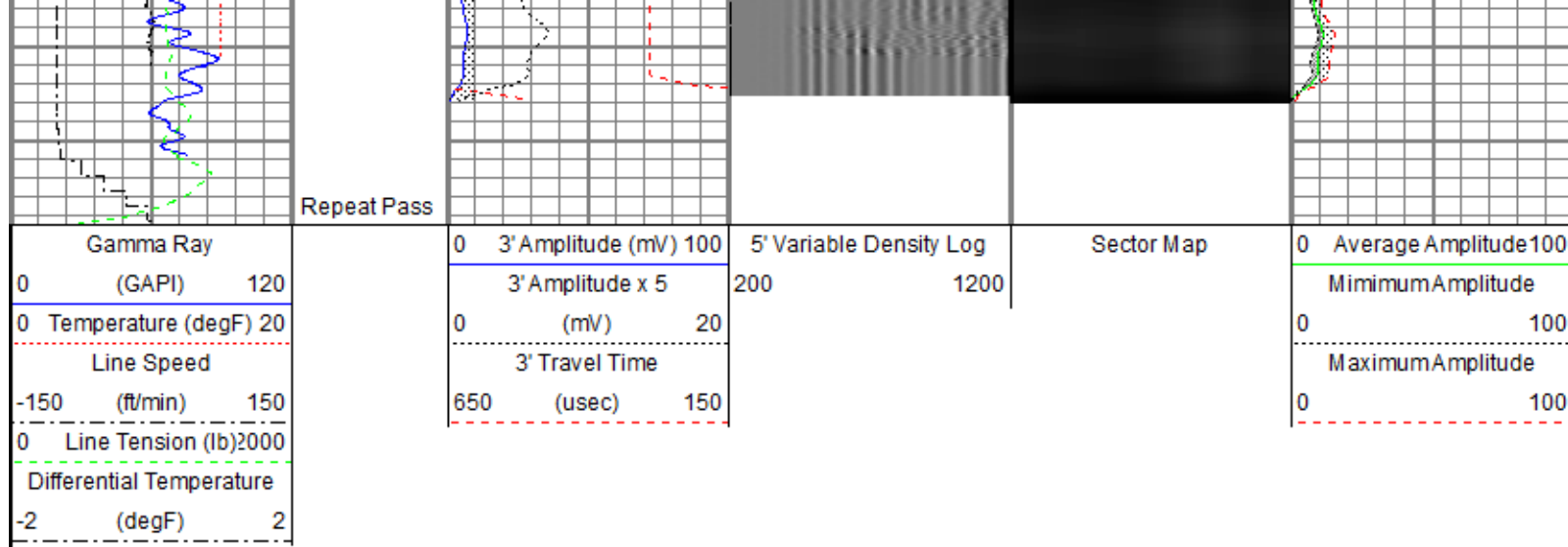
Repeat Pass

Recorded with 2500 PSI Surface Induced Pressure

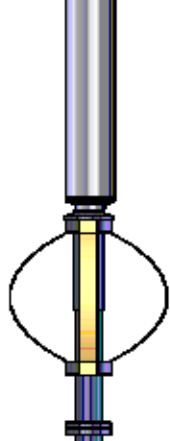
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 Presentation Format ros_radial
 Dataset Creation Sun Mar 18 09:16:55 2018
 Checked by

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	
Temperature (degF)	20	(mV)	20			0	100	
Line Speed		3' Travel Time					Maximum Amplitude	
(ft/min)	150	(usec)	150			0	100	
Line Tension (lb)	2000							
Differential Temperature								
(degF)	2							





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 (FW0712-020) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
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					
CCL\$1	6.51					

GR	5.26		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
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Dataset: SRC Energy_Falken 30C-14-S_RBL_03-16-18.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\SRC Energy_Falken 30C-14-S_RBL_03-16-18\SRC Energy_Falken 30C-14-S_RBL_03-16-18.db
Dataset Pathname	main.1
Dataset Creation	Fri Mar 16 10:18:36 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	0.716	0.800	71.921	99.455	0.708
CAL	0.006	0.621				
5'	-0.000	0.696	0.800	71.921	102.196	0.813
SUM						
S1	-0.012	0.733	0.000	100.000	134.259	1.610
S2	0.001	0.711	0.000	100.000	140.796	-0.149
S3	0.001	0.714	0.000	100.000	140.240	-0.166
S4	0.001	0.746	0.000	100.000	134.277	-0.164
S5	0.001	0.737	0.000	100.000	135.909	-0.149
S6	0.002	0.729	0.000	100.000	137.483	-0.244
S7	0.002	0.747	0.000	100.000	134.165	-0.270
S8	0.001	0.749	0.000	100.000	133.736	-0.158

Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset

	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 30C-14-S
Field: Wattenberg
County: Weld
State: Colorado