



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company Kerr-McGee Oil & Gas Onshore, L.P.

Well Jodster South 25-11HZ

Field Wattenberg

County Larimer State Colorado

Location: API #: 05-069-06519

Other Services

SEC 25 TWP 5N RGE 68W

Elevation

Permanent Datum Ground Level Elevation 4861'
Log Measured From Kelly Bushing 26 FT
Drilling Measured From Kelly Bushing

K.B. 4887'
D.F. ---
G.L. 4861'

Company Kerr-McGee Oil & Gas Onshore, L.P.
Well Jodster South 25-11HZ
Field Wattenberg
County Larimer
State Colorado

Date	24-JAN-2020	One		
Run Number		18326 FT		
Depth Driller		7010 FT		
Depth Logger		6995 FT		
Bottom Logged Interval		Surface		
Top Log Interval		---		
Open Hole Size		Water		
Type Fluid		8.34 lb/gal		
Density / Viscosity		210°F		
Max. Recorded Temp.		See Log		
E. estimated Cement Top		ROA		
Time Well Ready		14:30		
Time Logger on Bottom		HD-325		
E. equipment Number		Platteville, CO		
Location		Dennis Roberts		
Recorded By		John McCarthy		
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	17	HCP-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
Depth referenced to Casing Tally reported Marker Joint at 6901 FT
Adjusted -12 FT to correlate with Marker Joint
Log ran with 0 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations
Thank you for choosing Reliance Oilfield Services, LLC!!

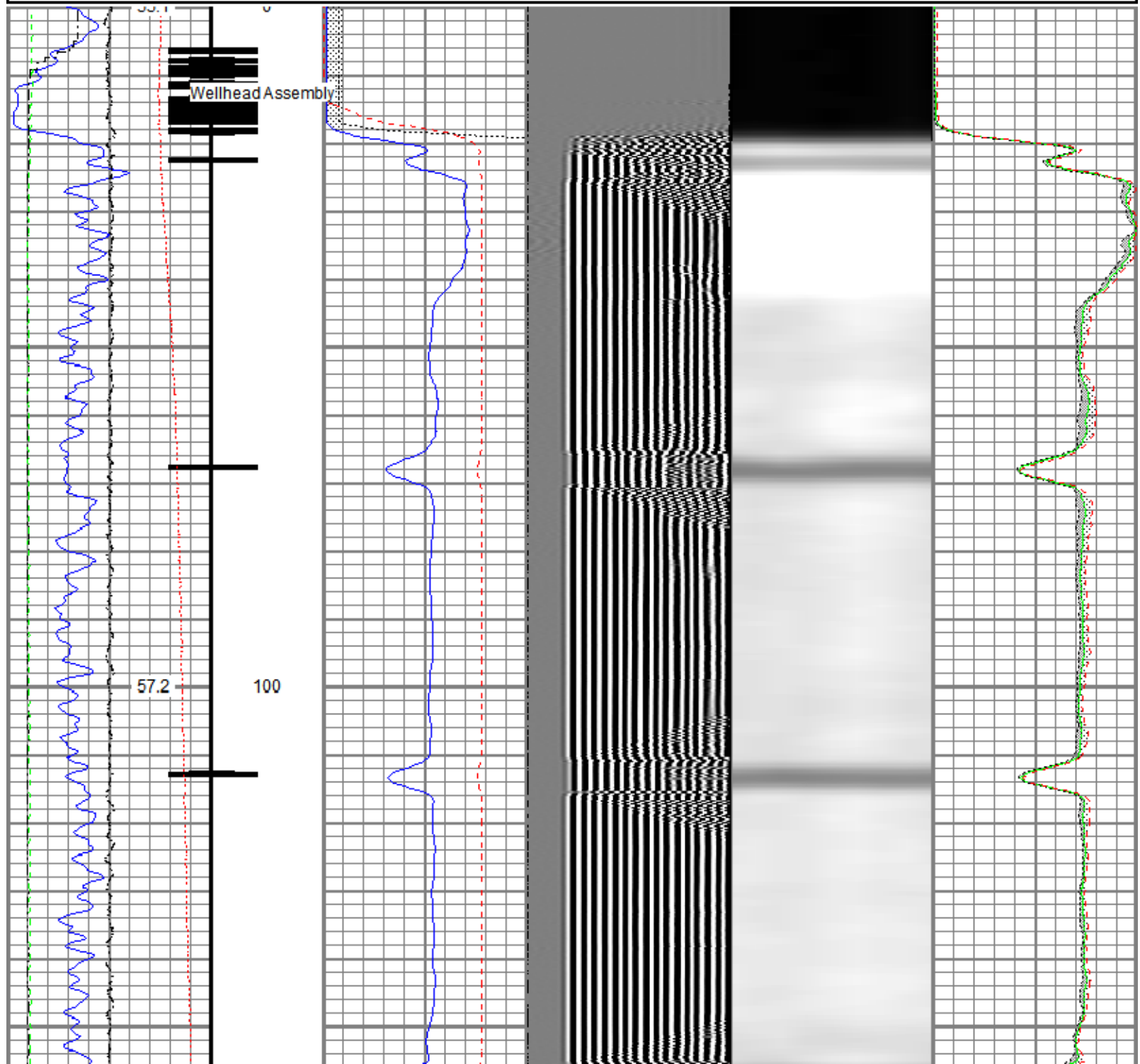
Main Pass

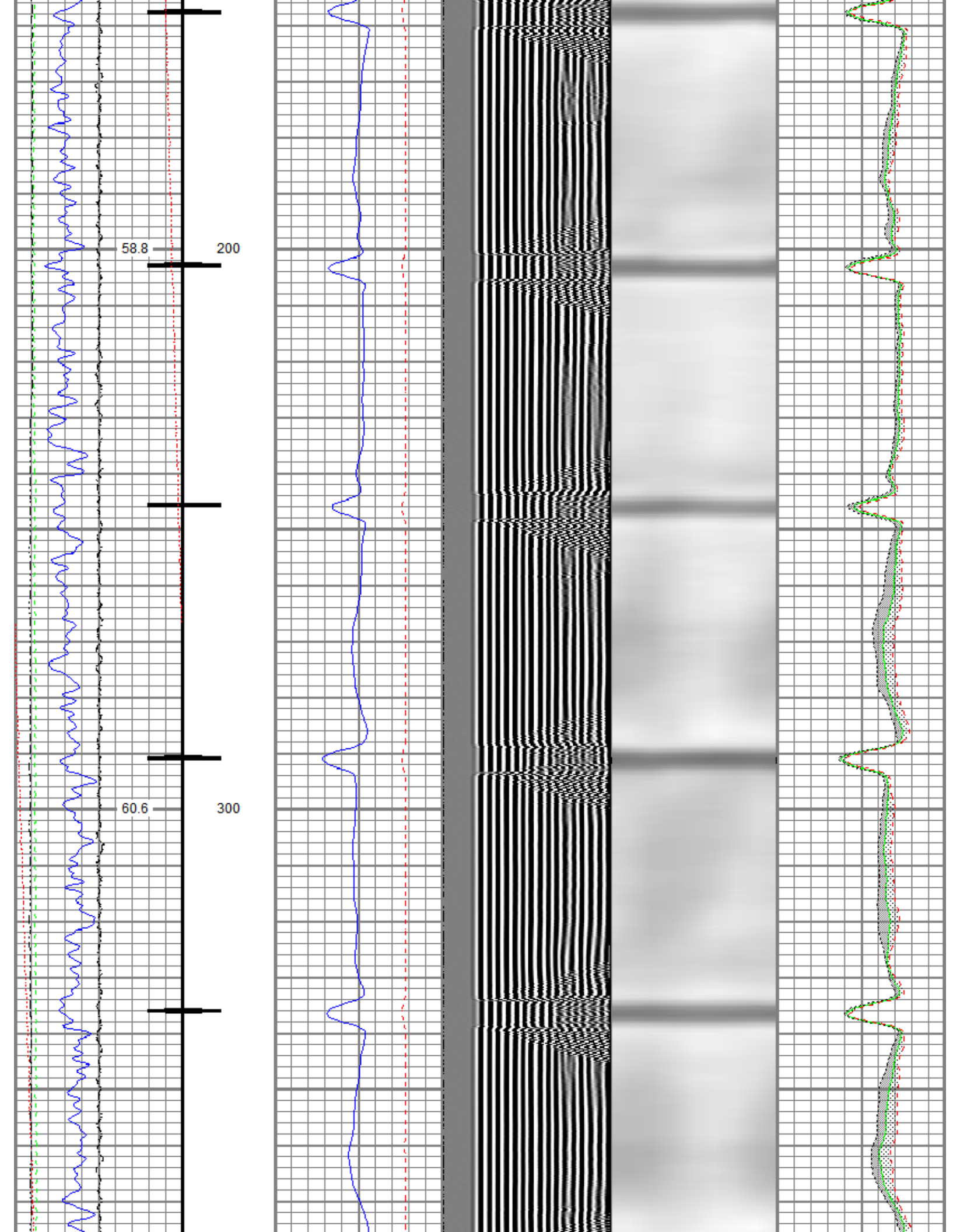


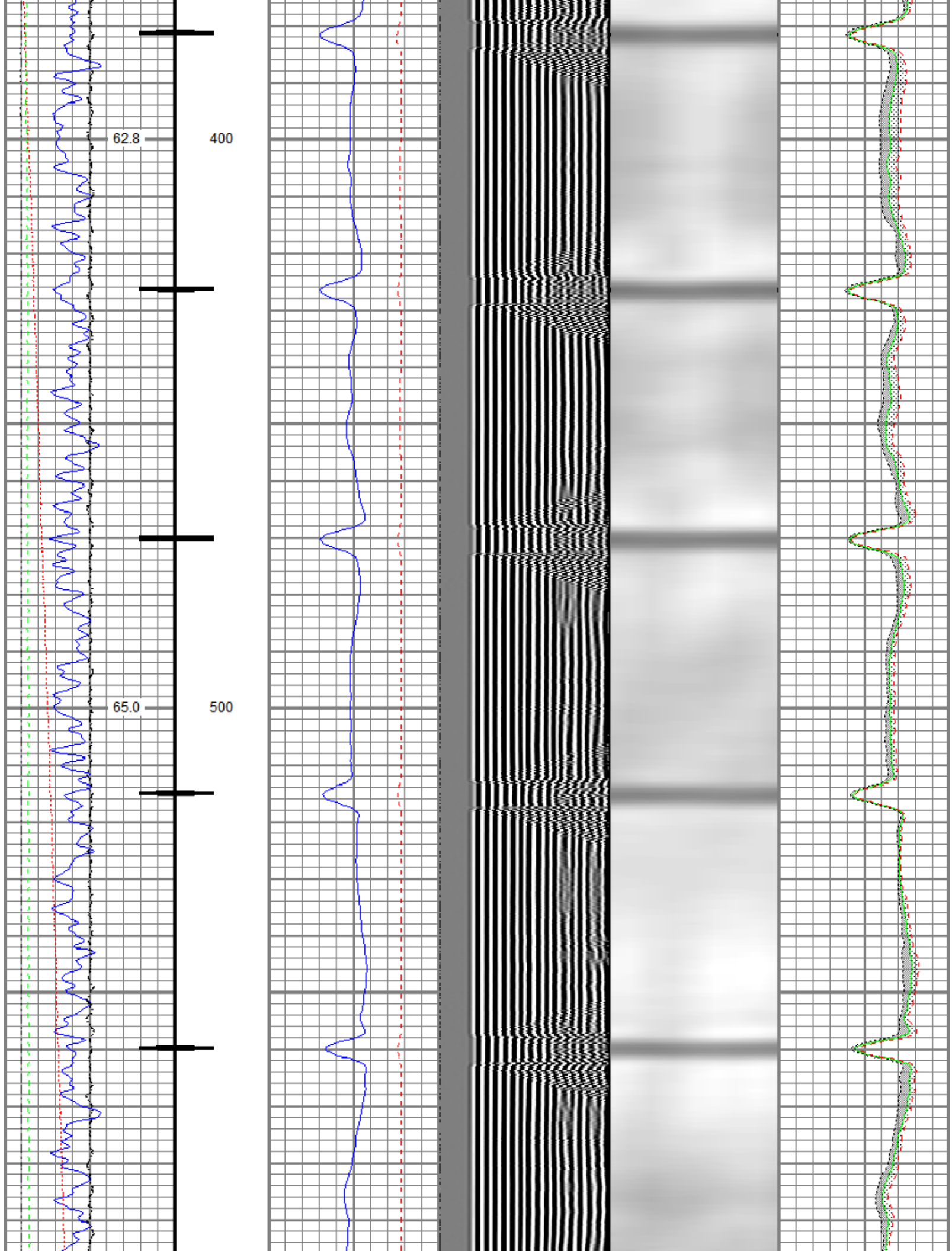
Recorded With 0 PSI Surface Induced Pressure

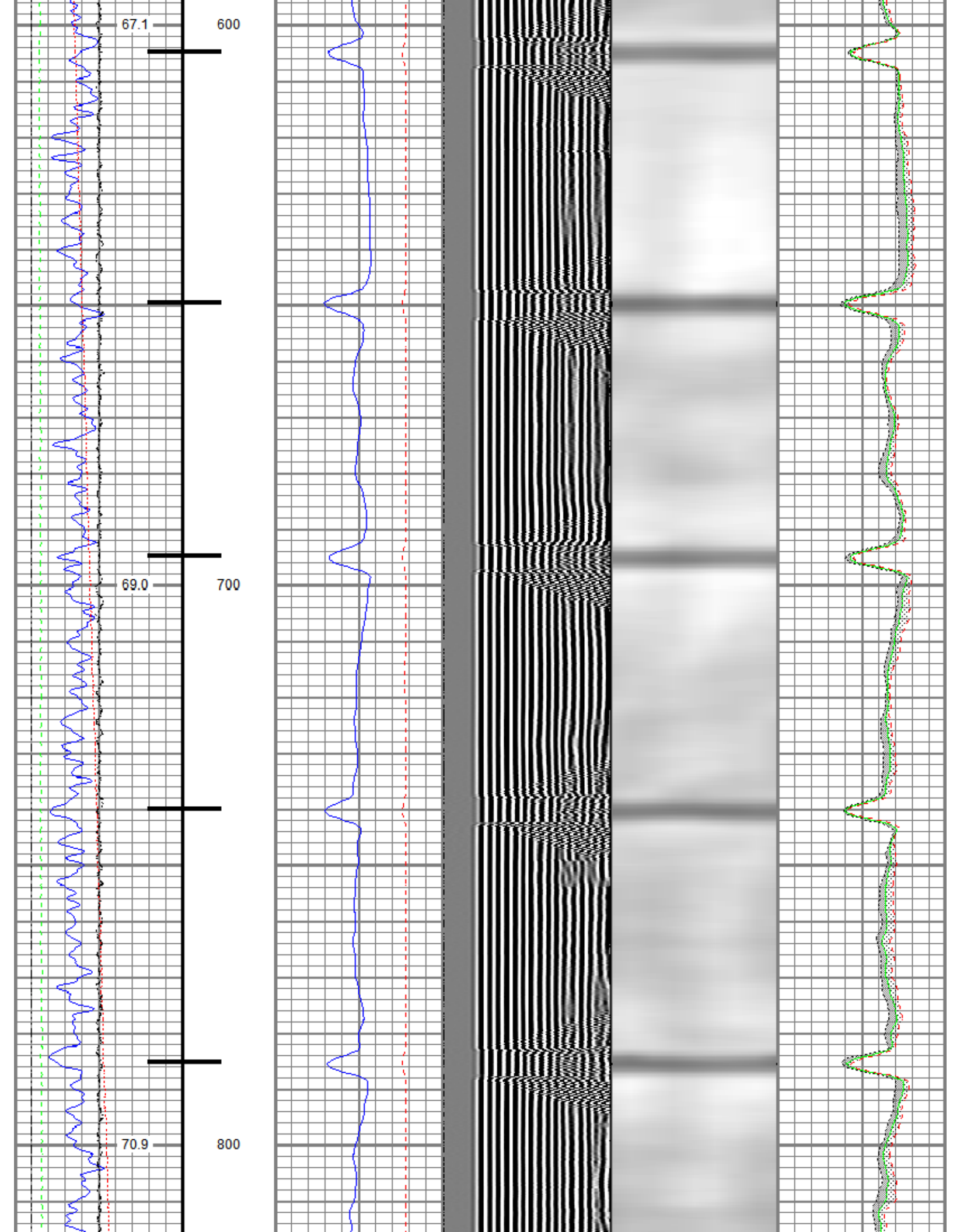
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Dataset Pathname	RBL/pass6.1
Presentation Format	ros_radri
Dataset Creation	Fri Jan 24 15:30:46 2020
Charted by	Depth in Feet scaled 1:240

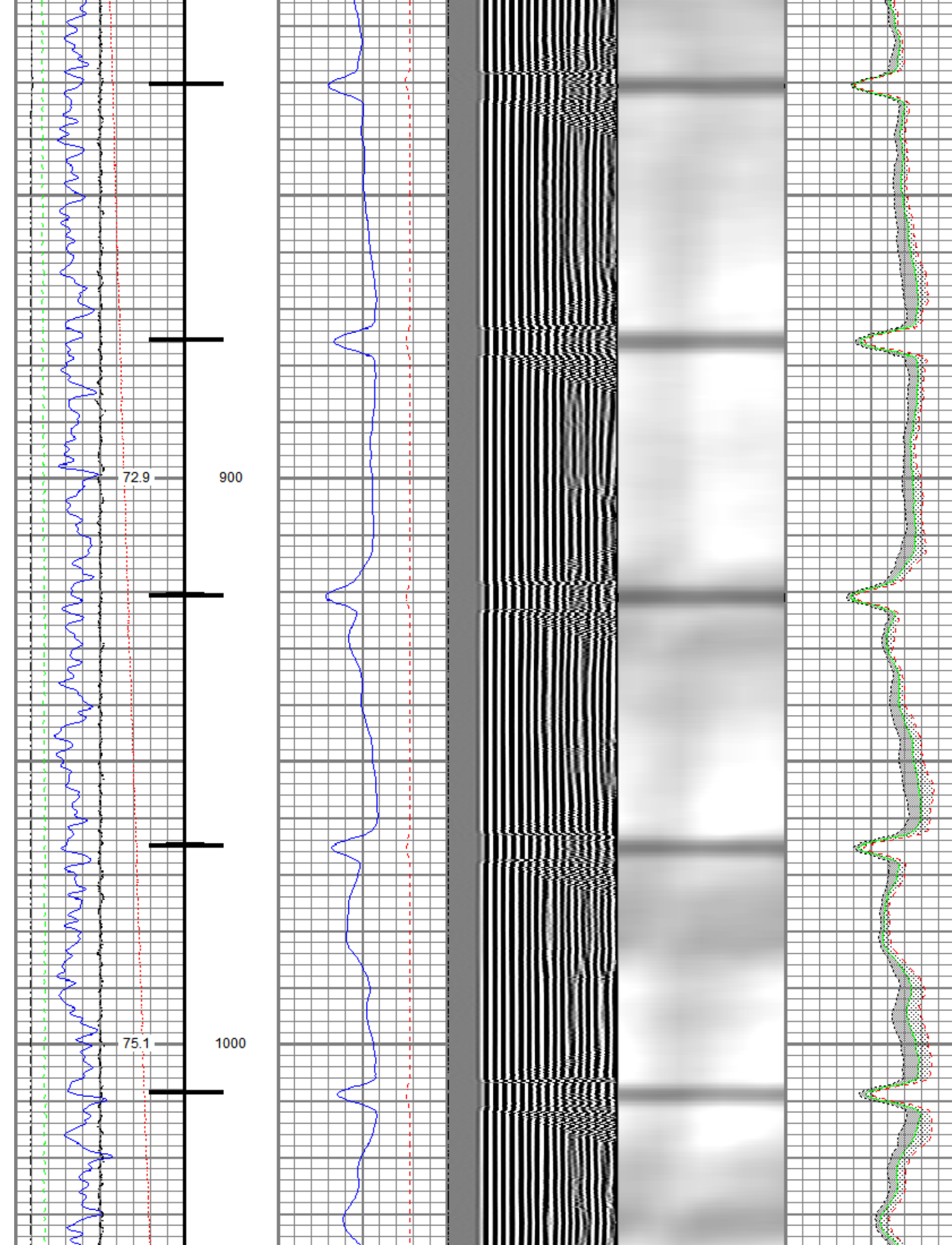
Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
(GAPI)	120	3' Amplitude x 5	200	(usec)	1200		Minimum Amplitude	
Casing Collar Locator		0	(mV)	20		0		100
0 Temperature (degF)	20	3' Travel Time					Maximum Amplitude	
Line Speed		650	(usec)	150		0		100
-150 (ft/min)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

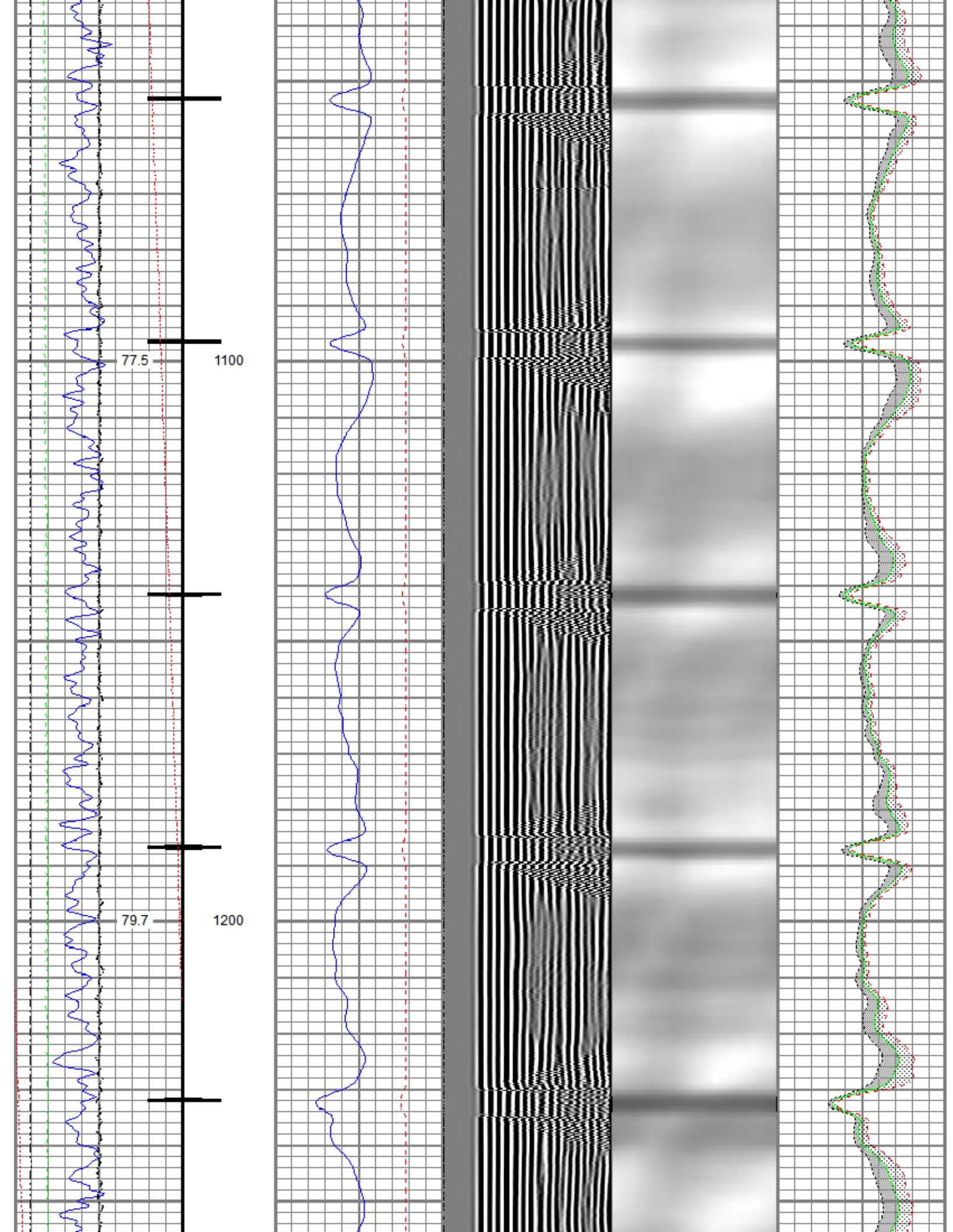


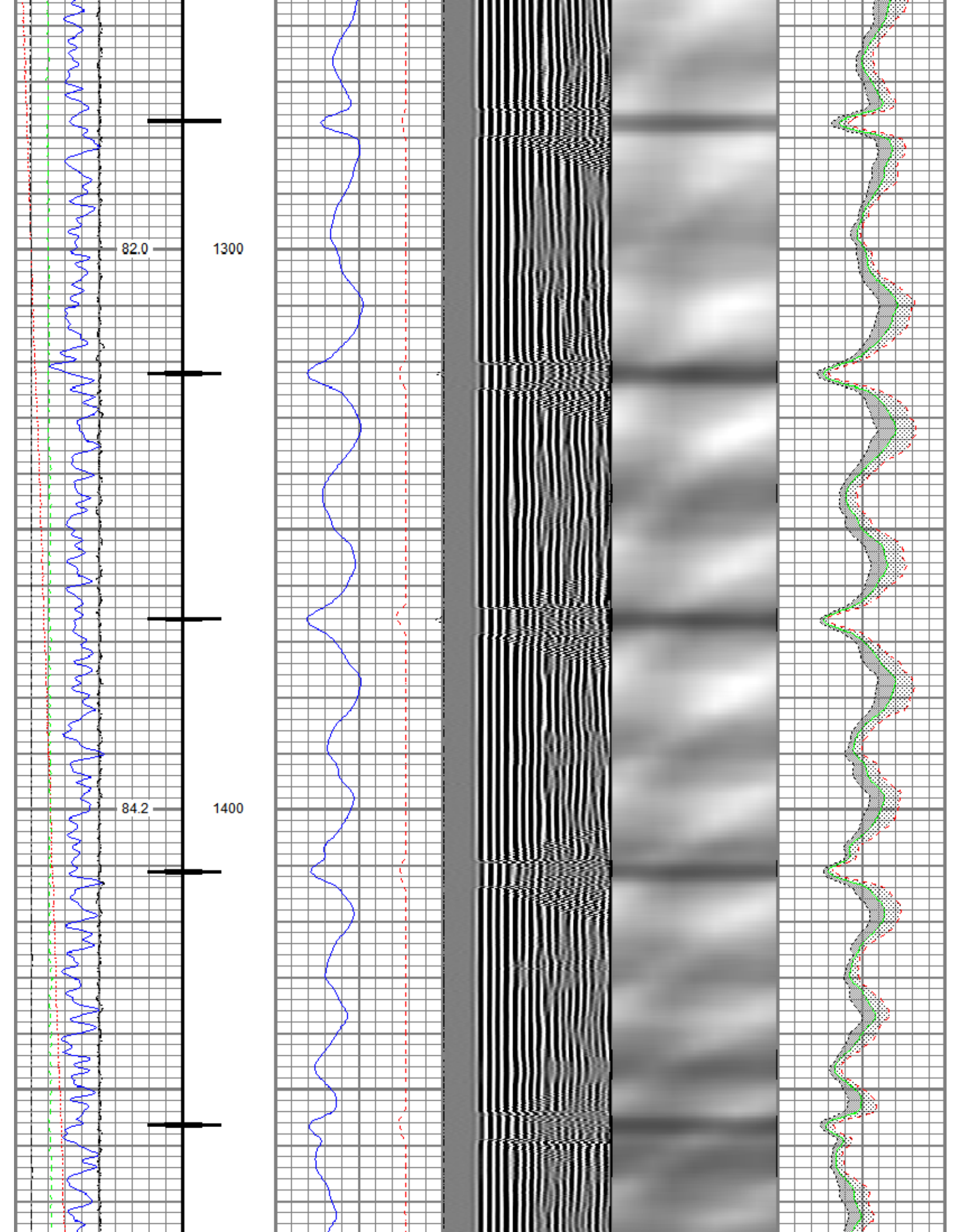


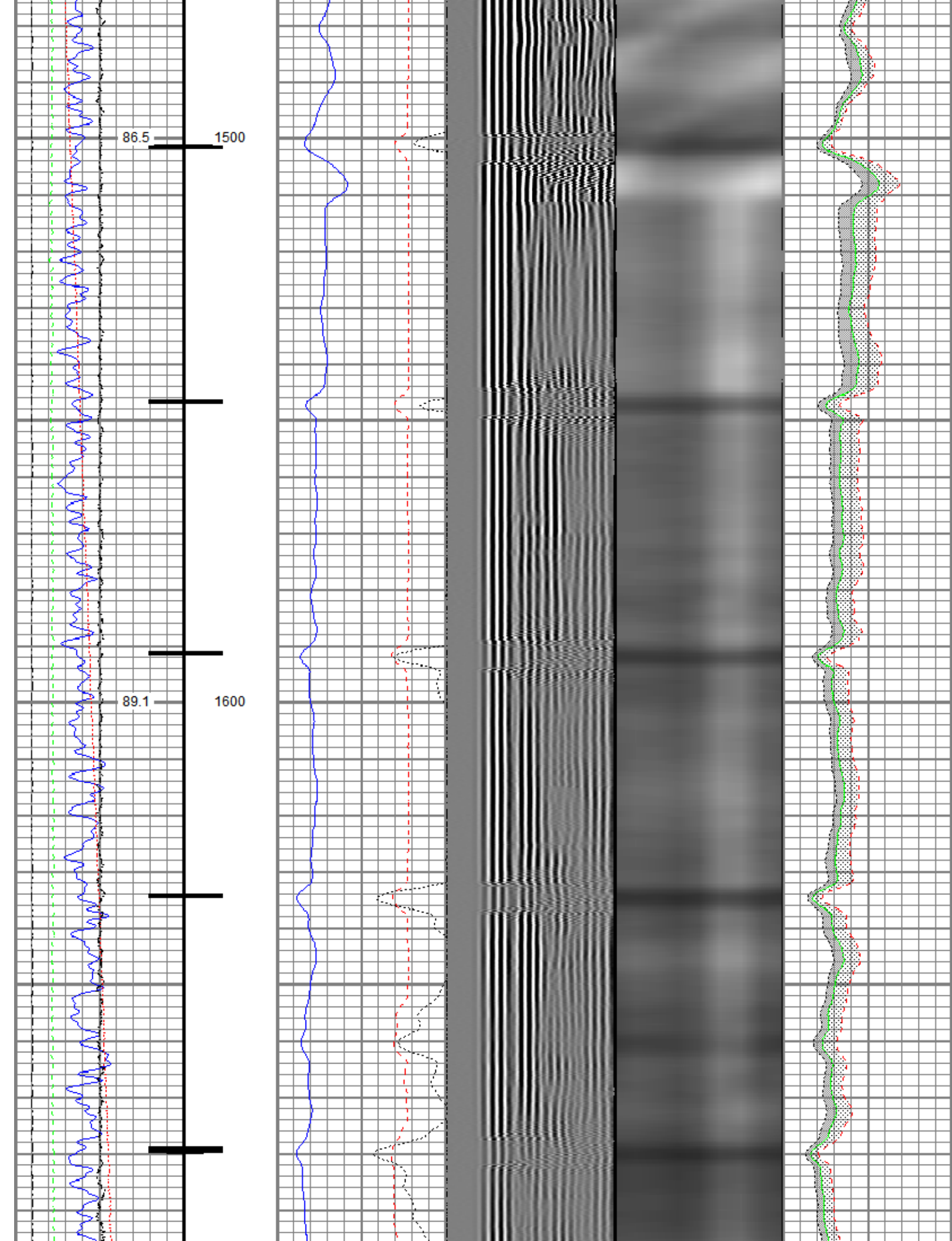


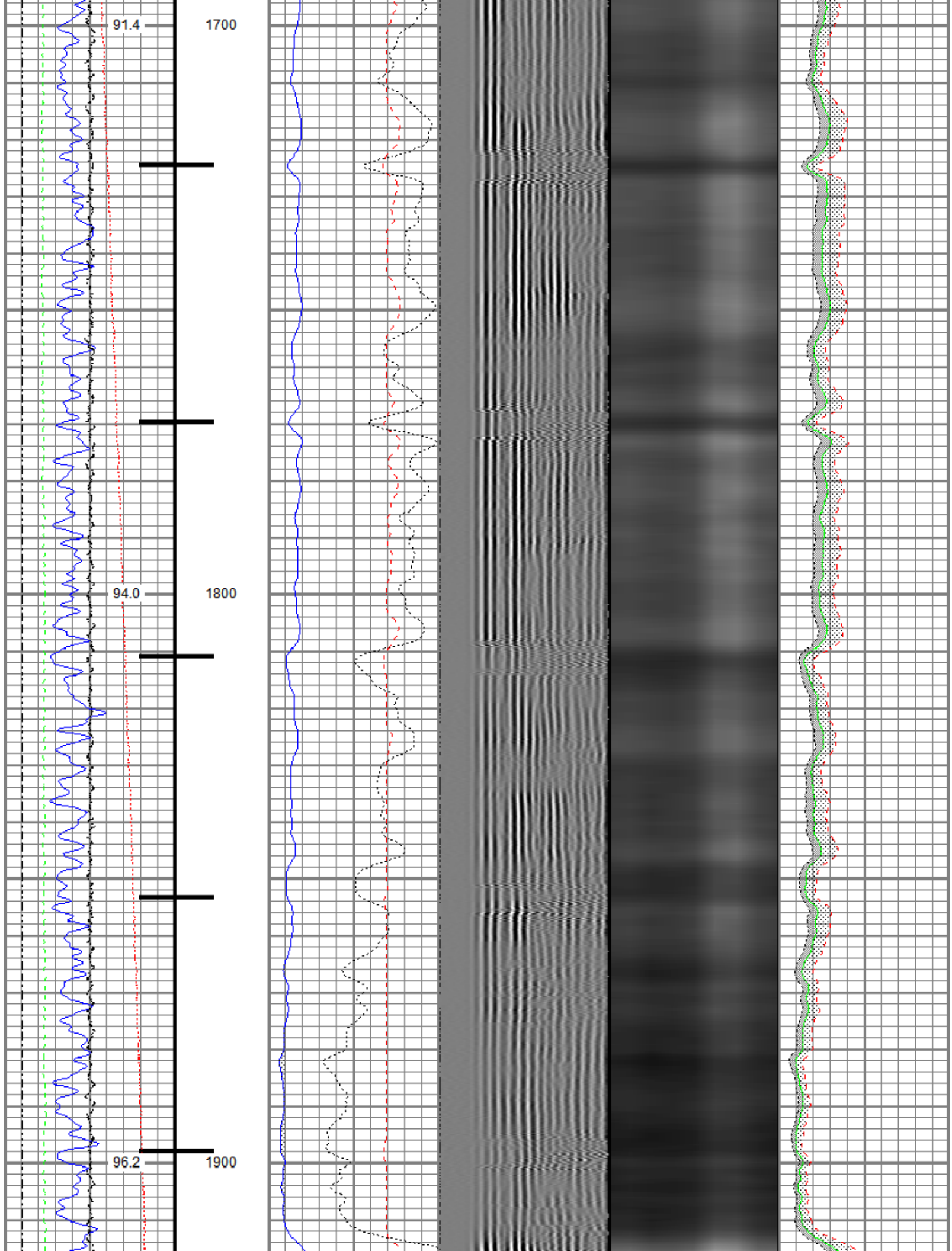


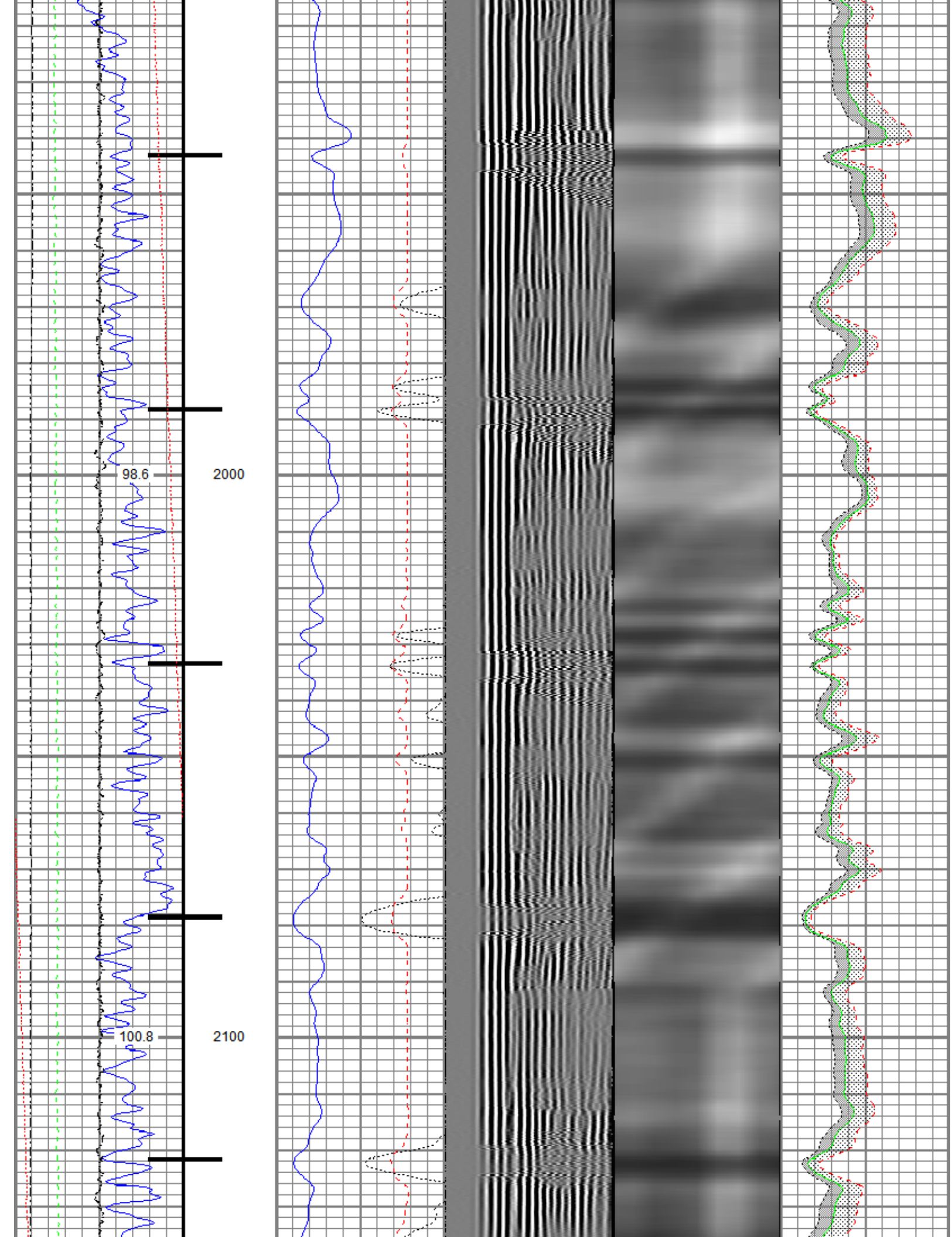


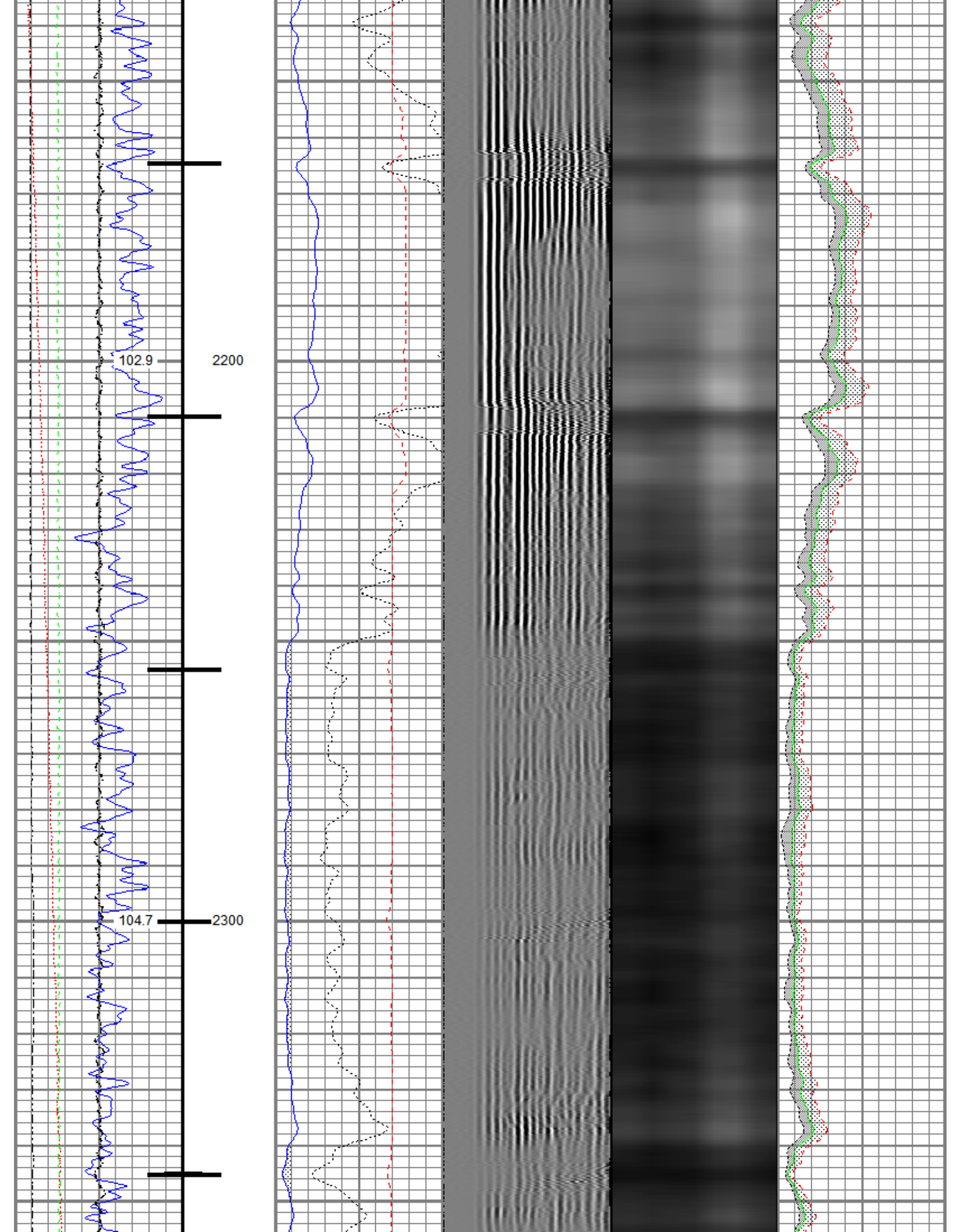


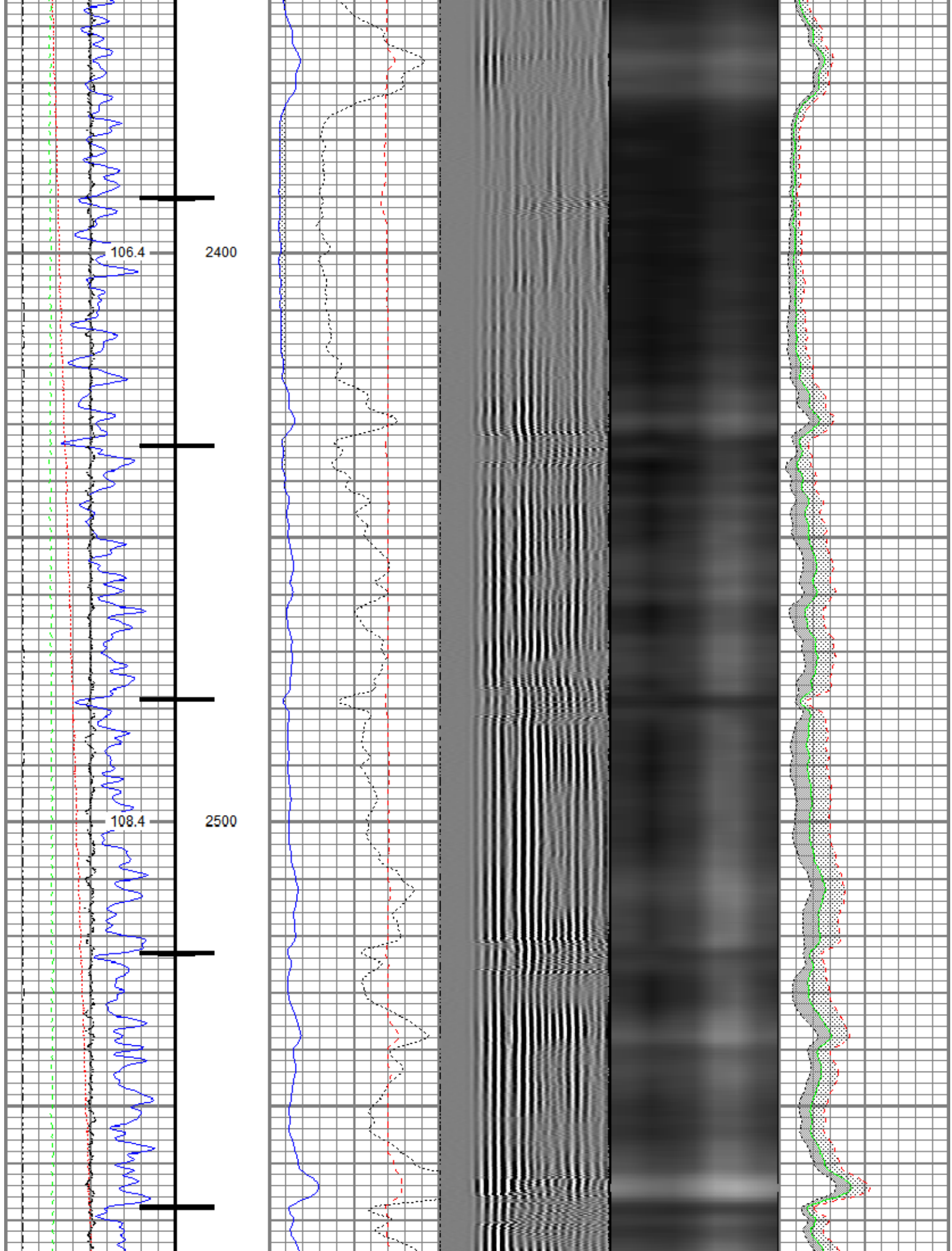


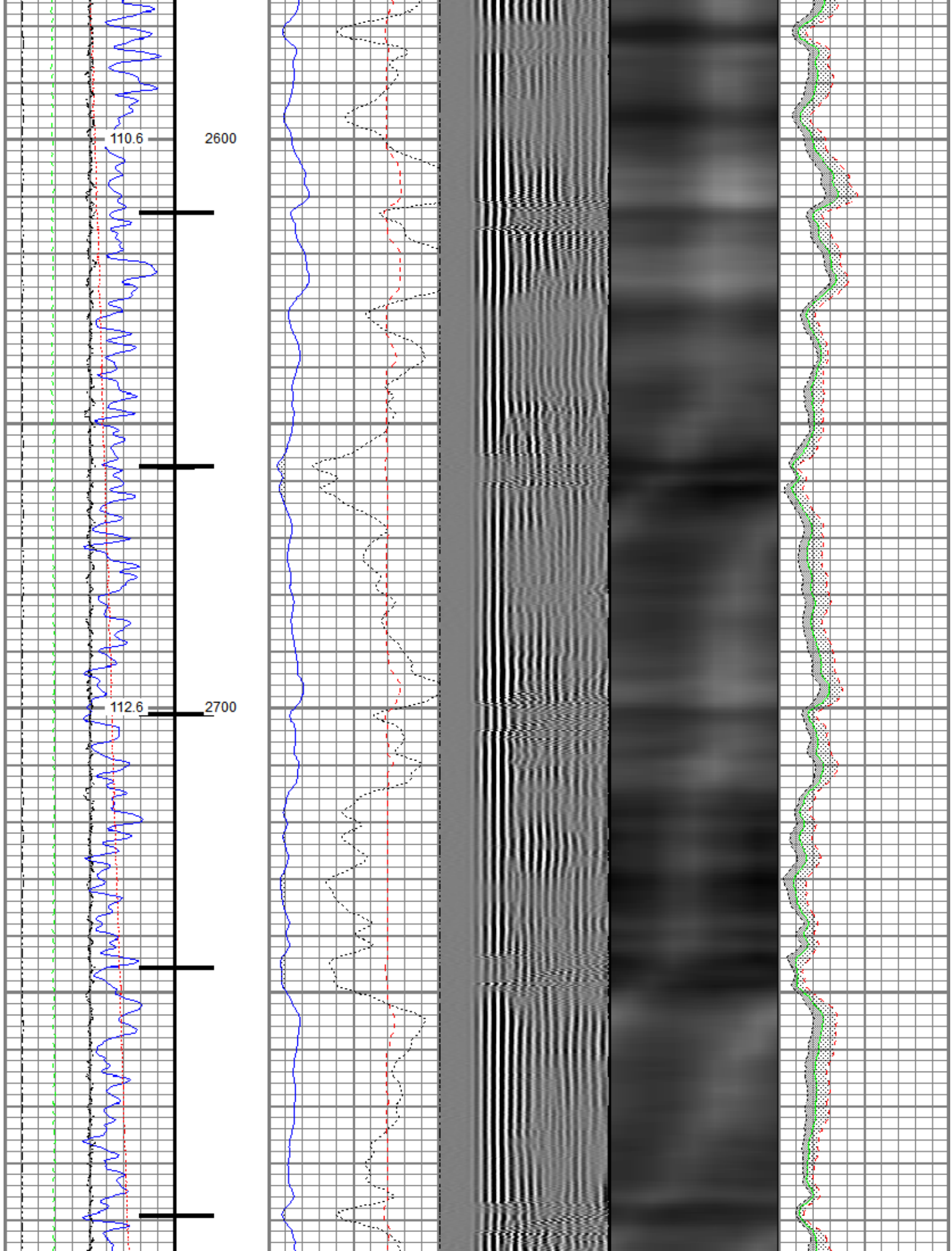


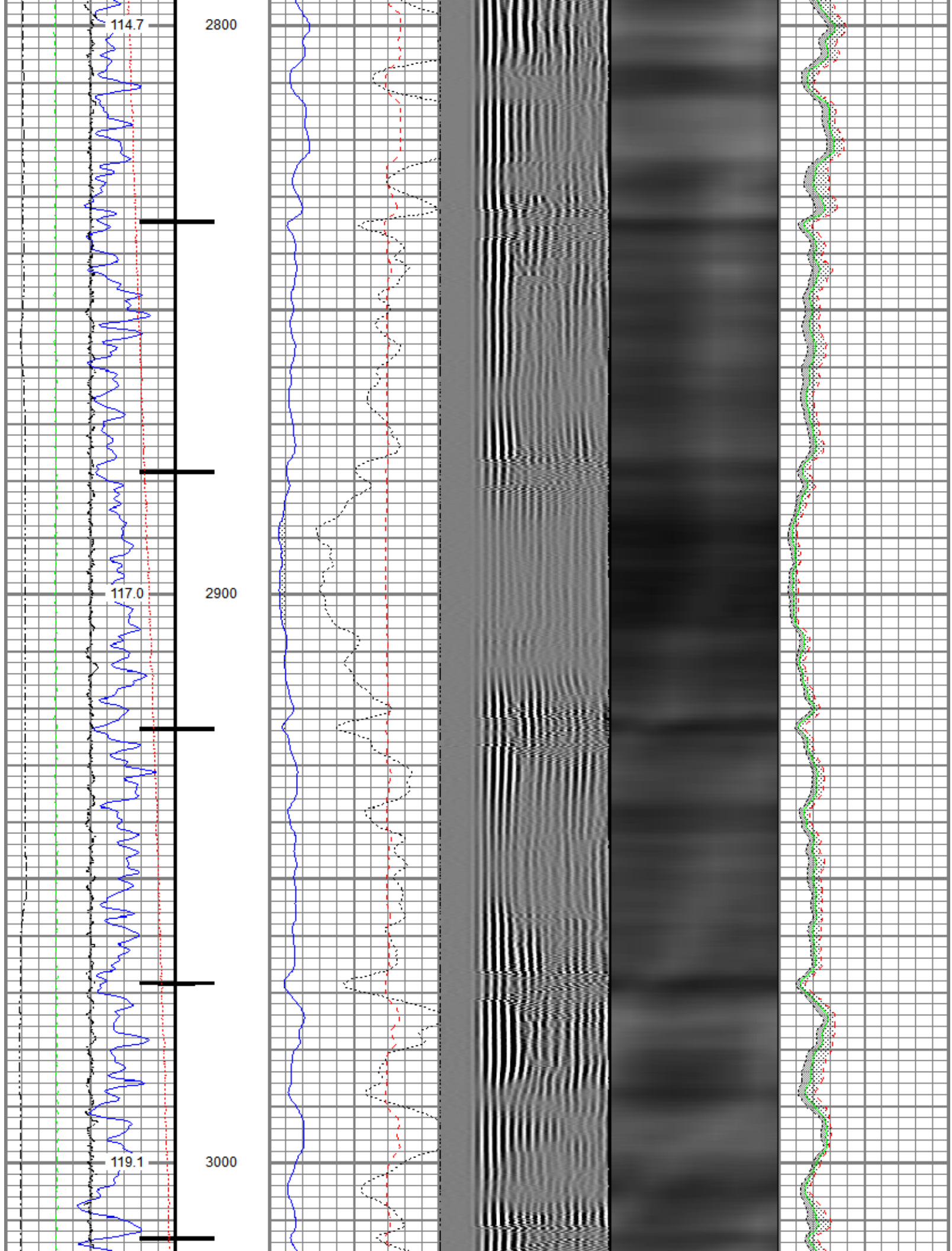


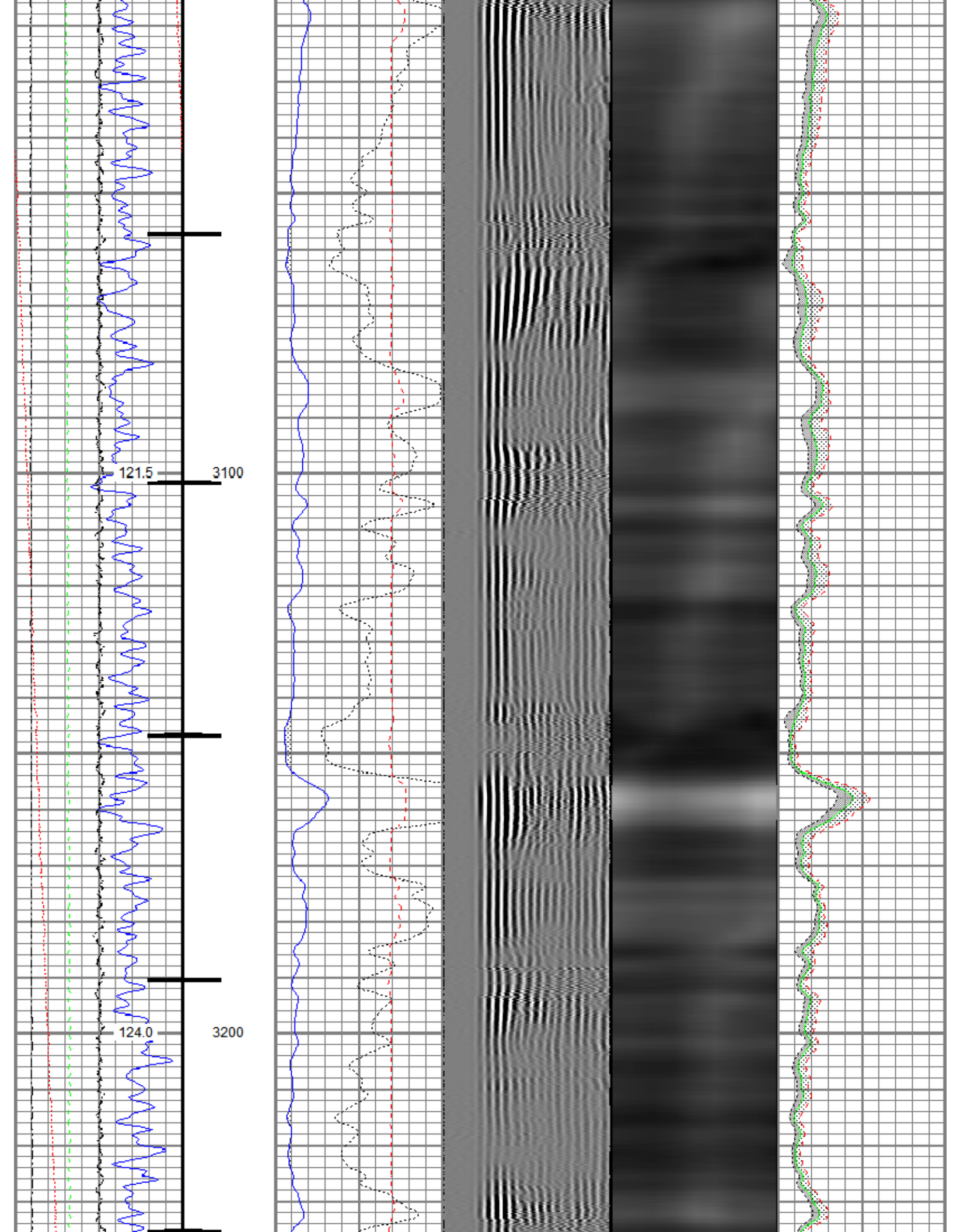


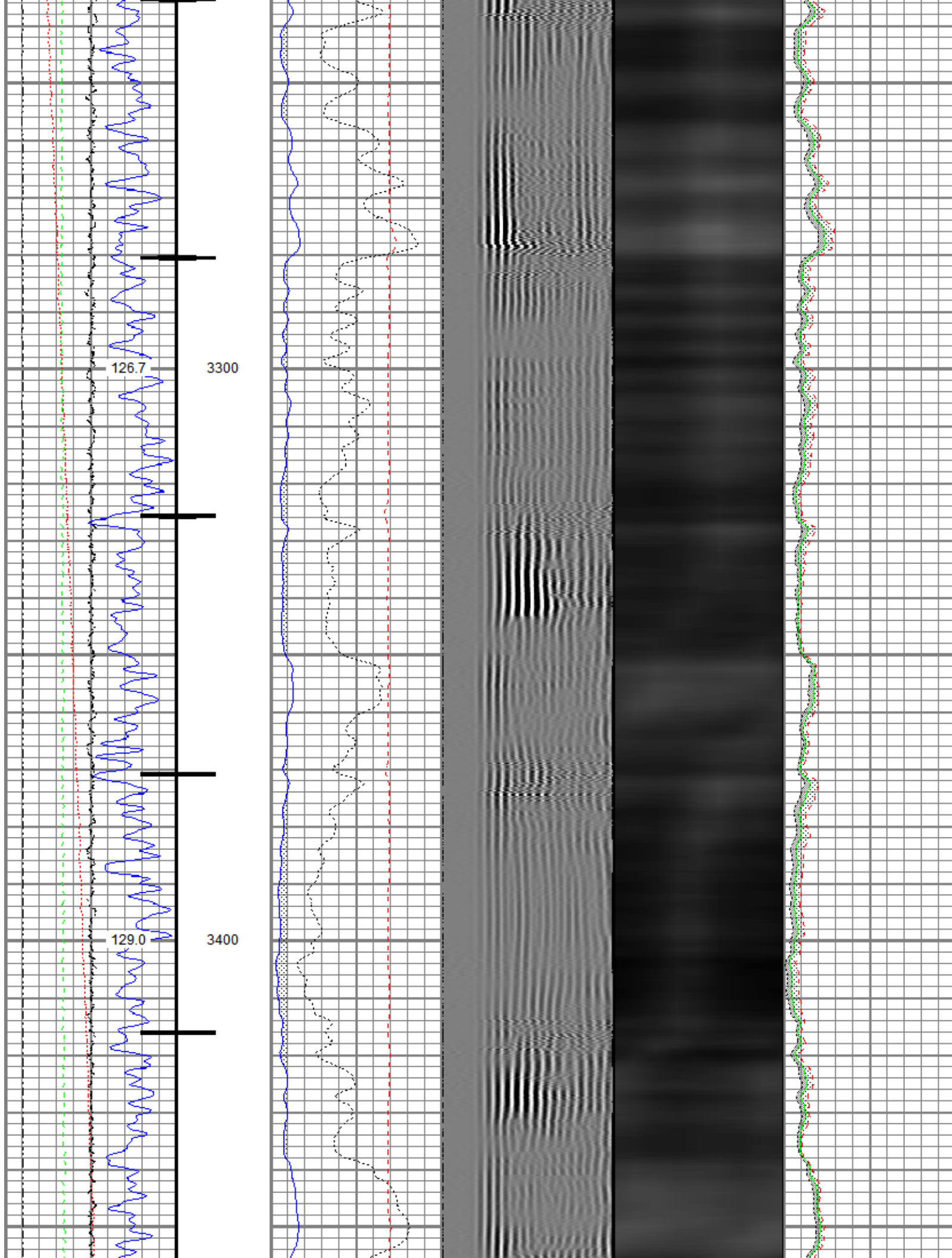


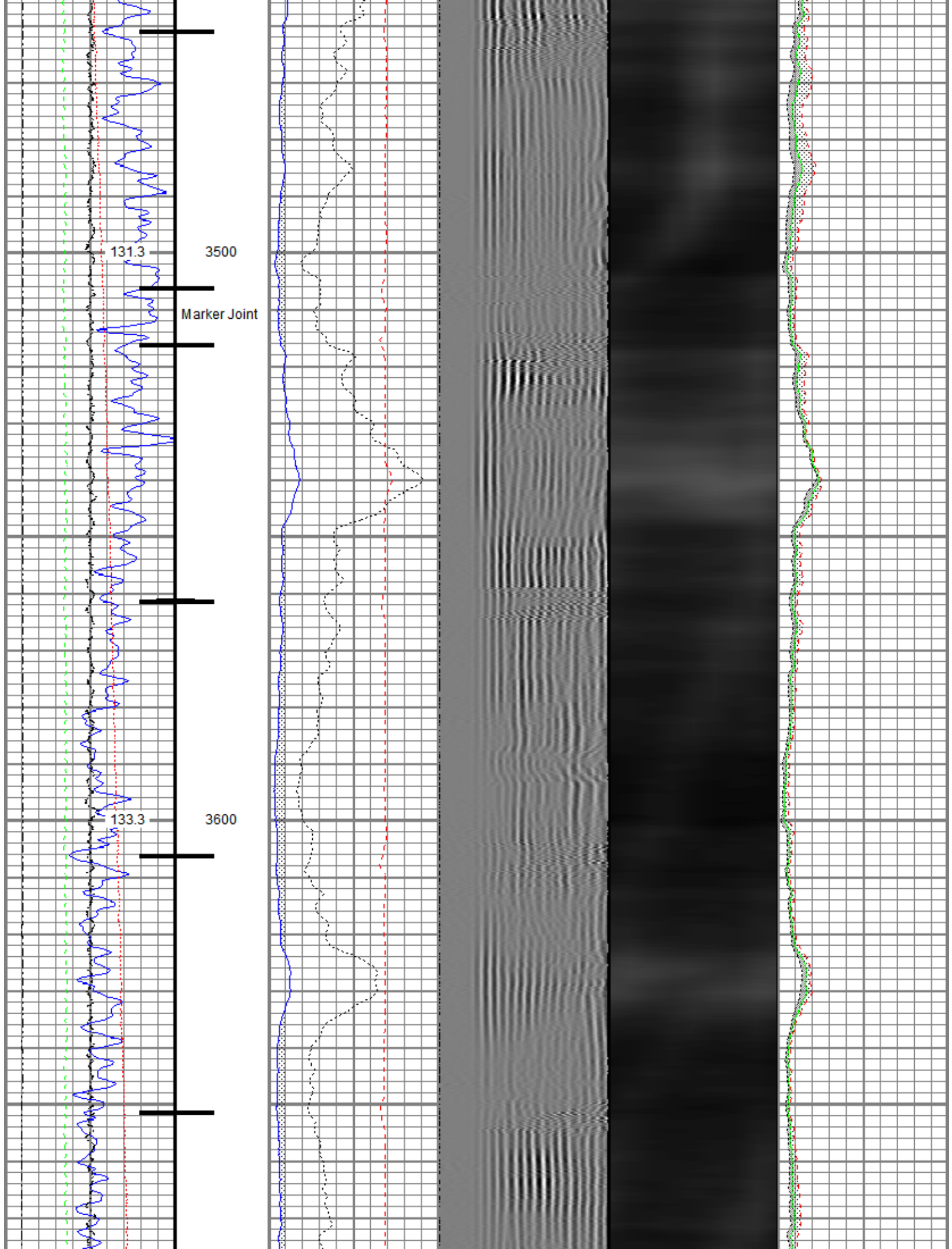


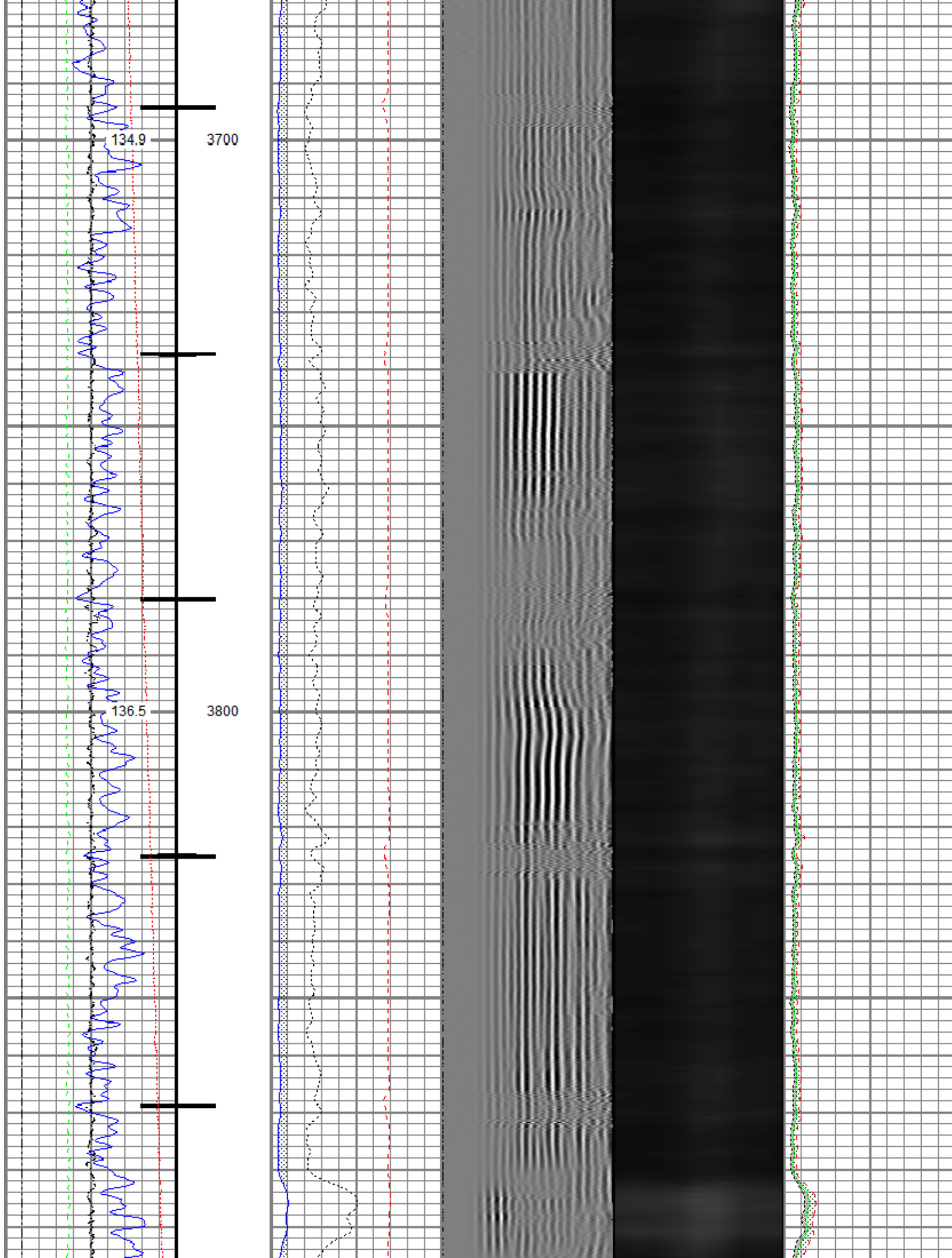


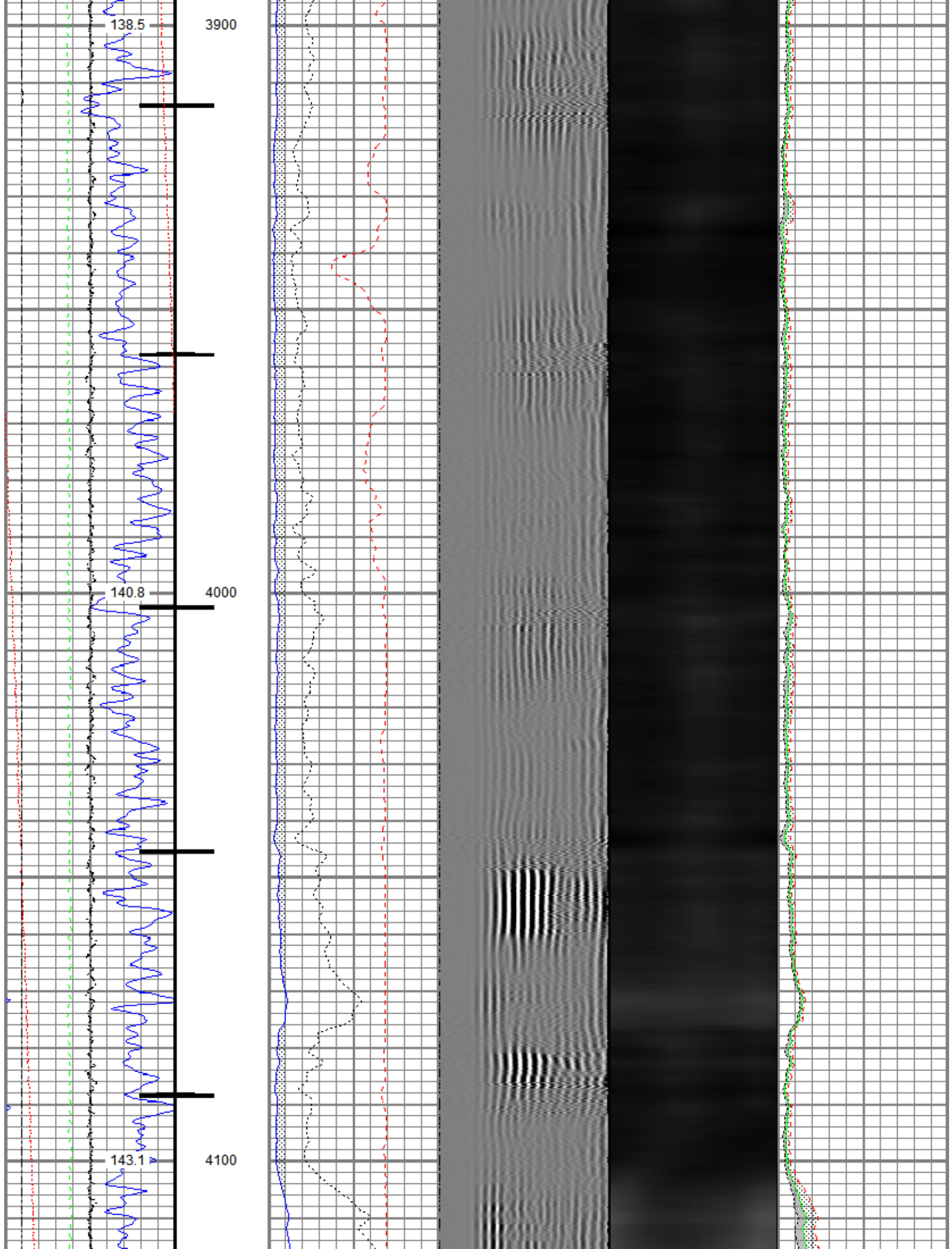


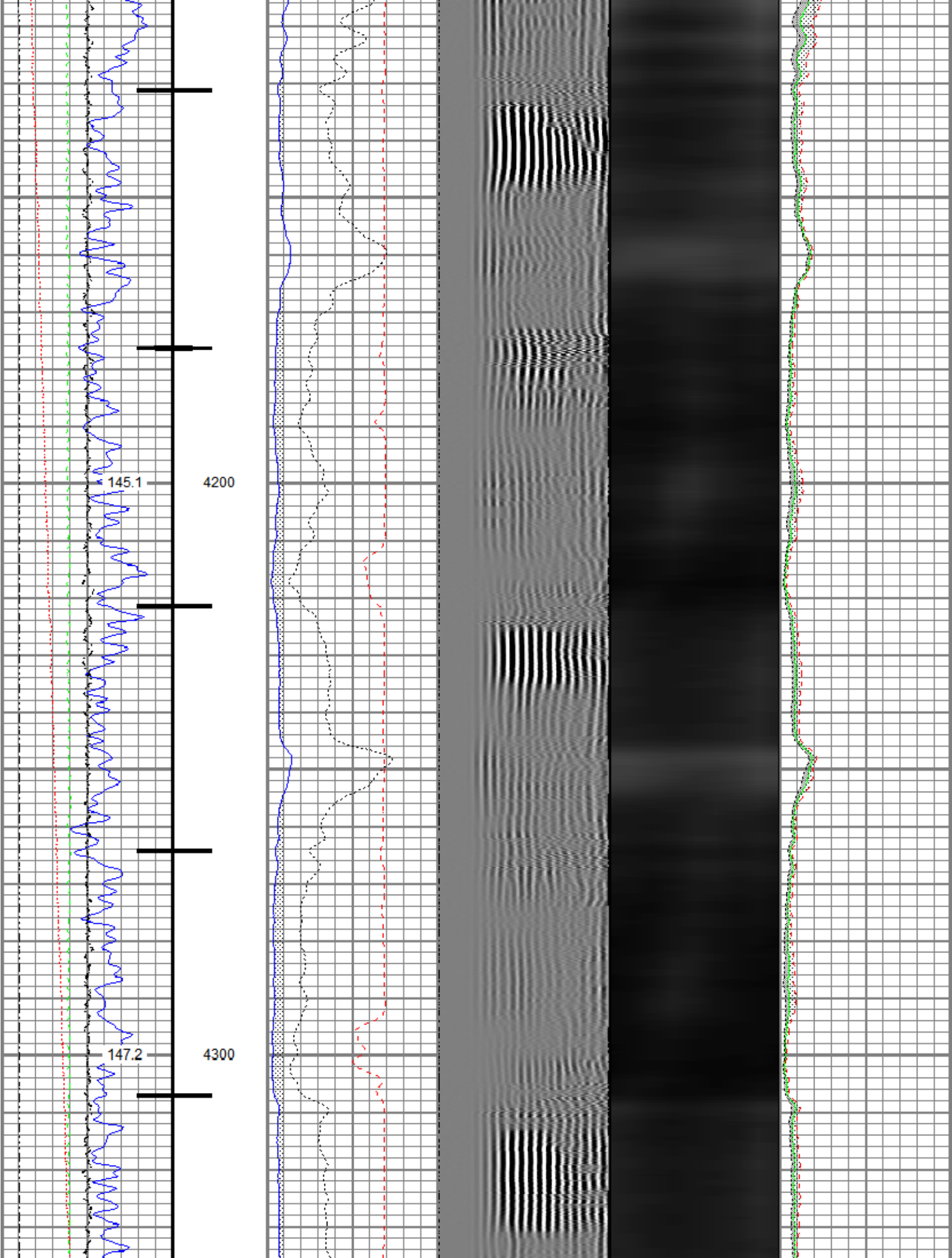


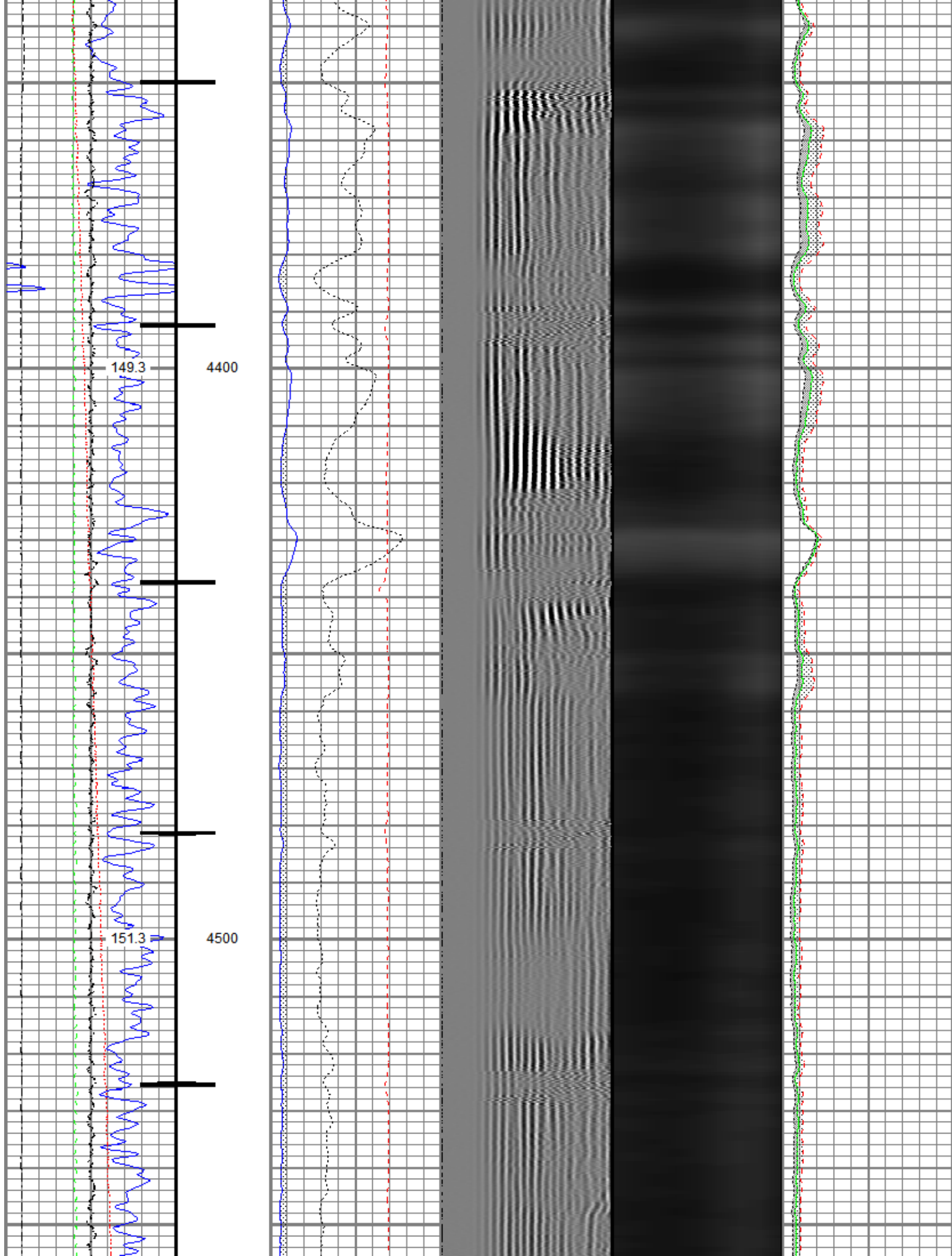


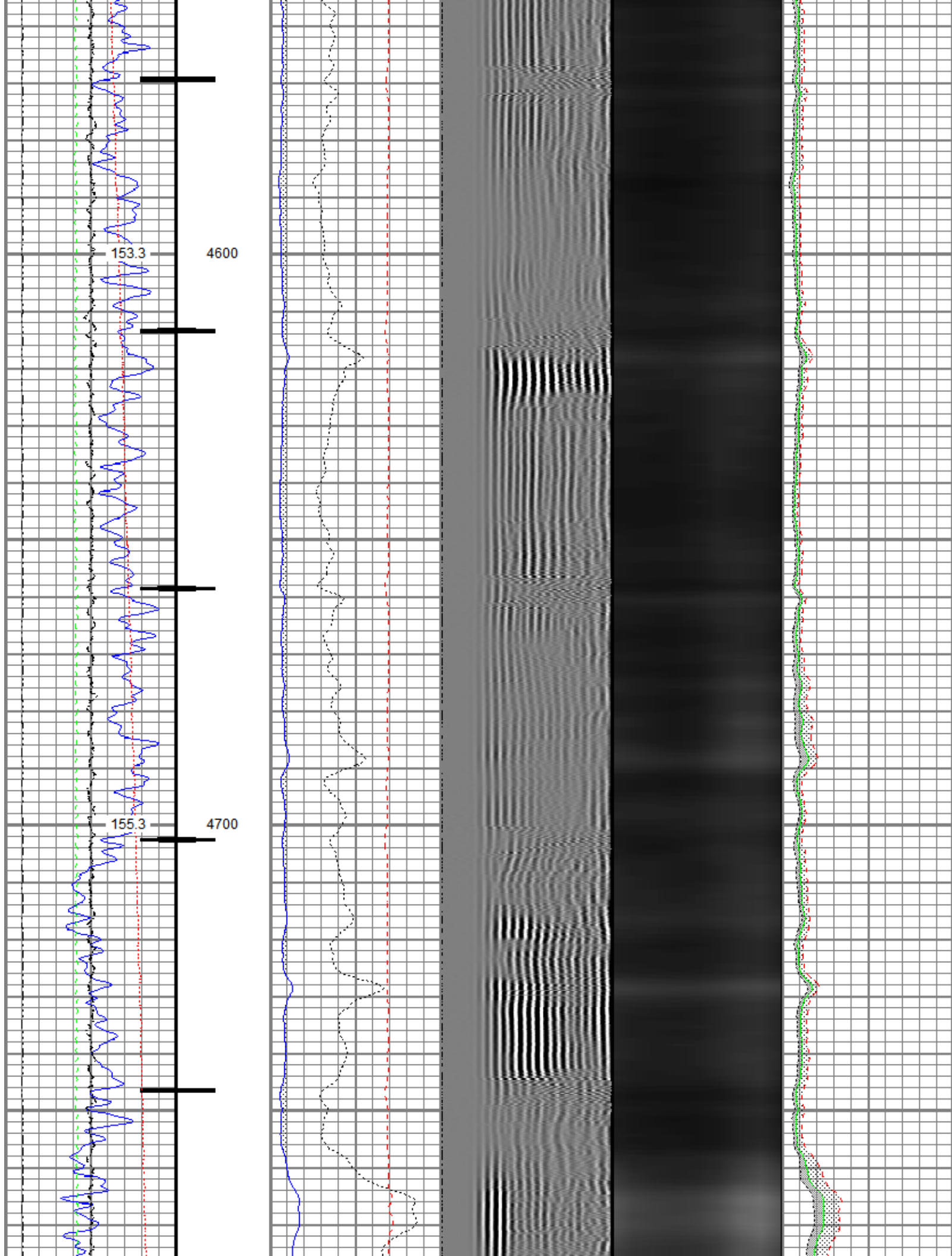


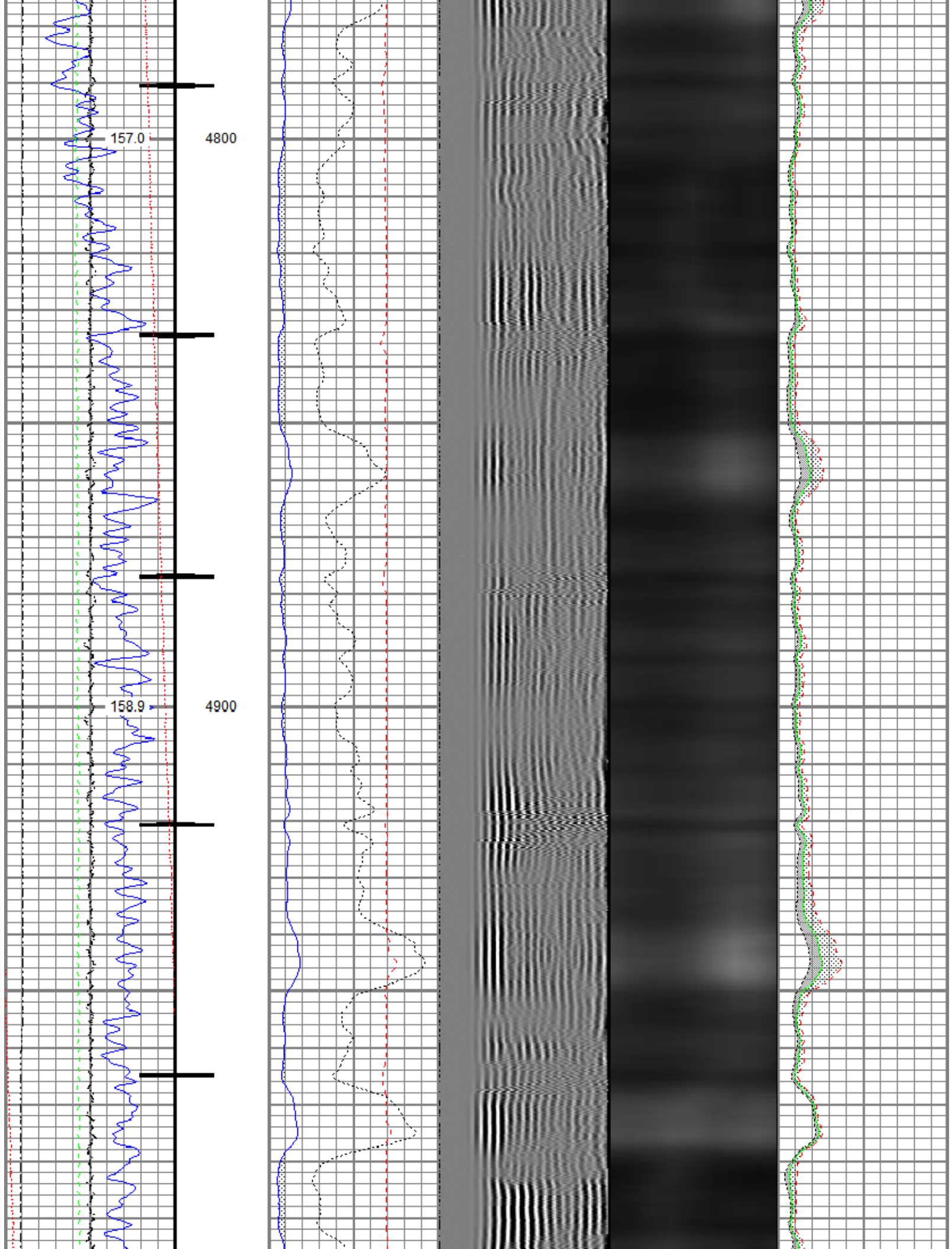


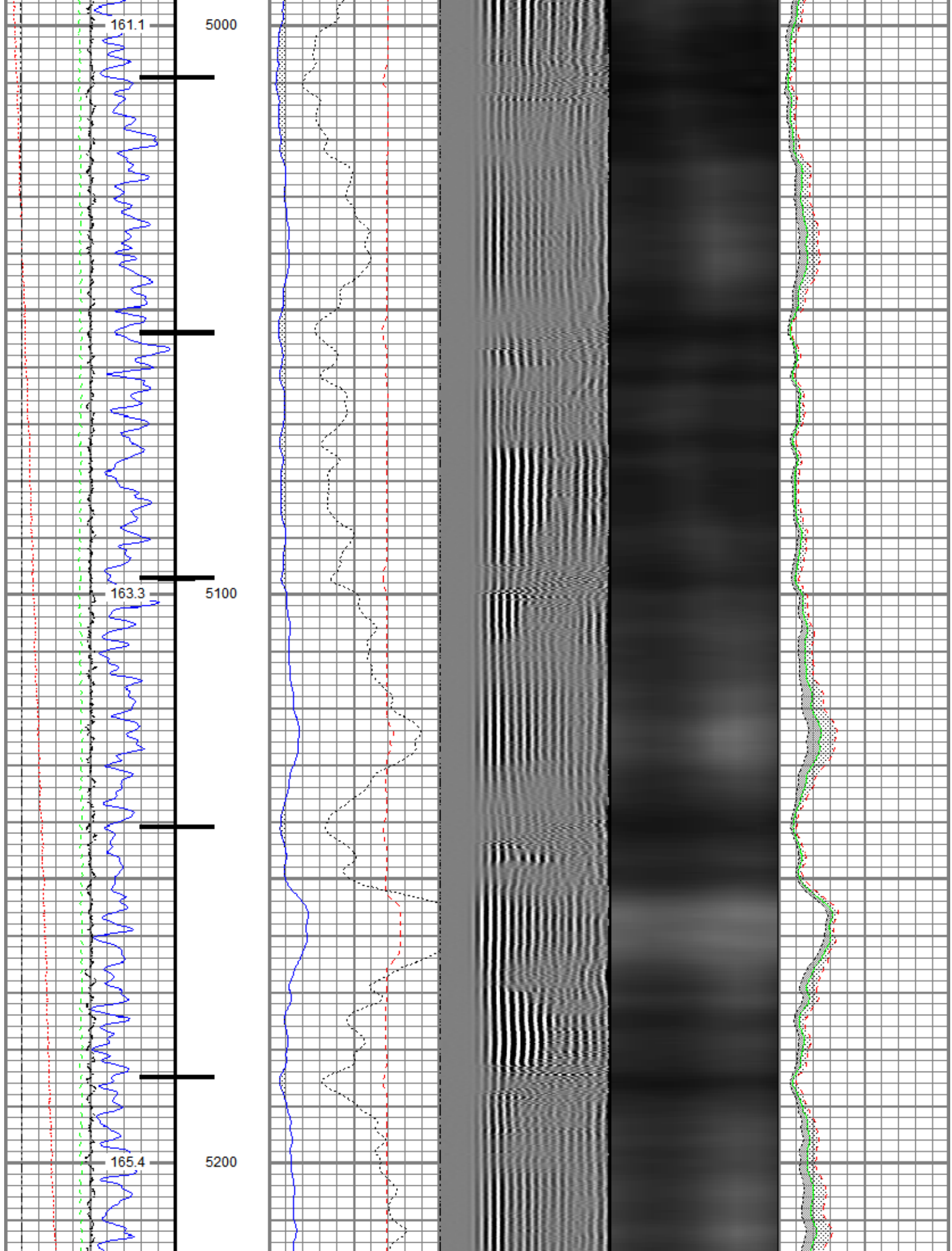


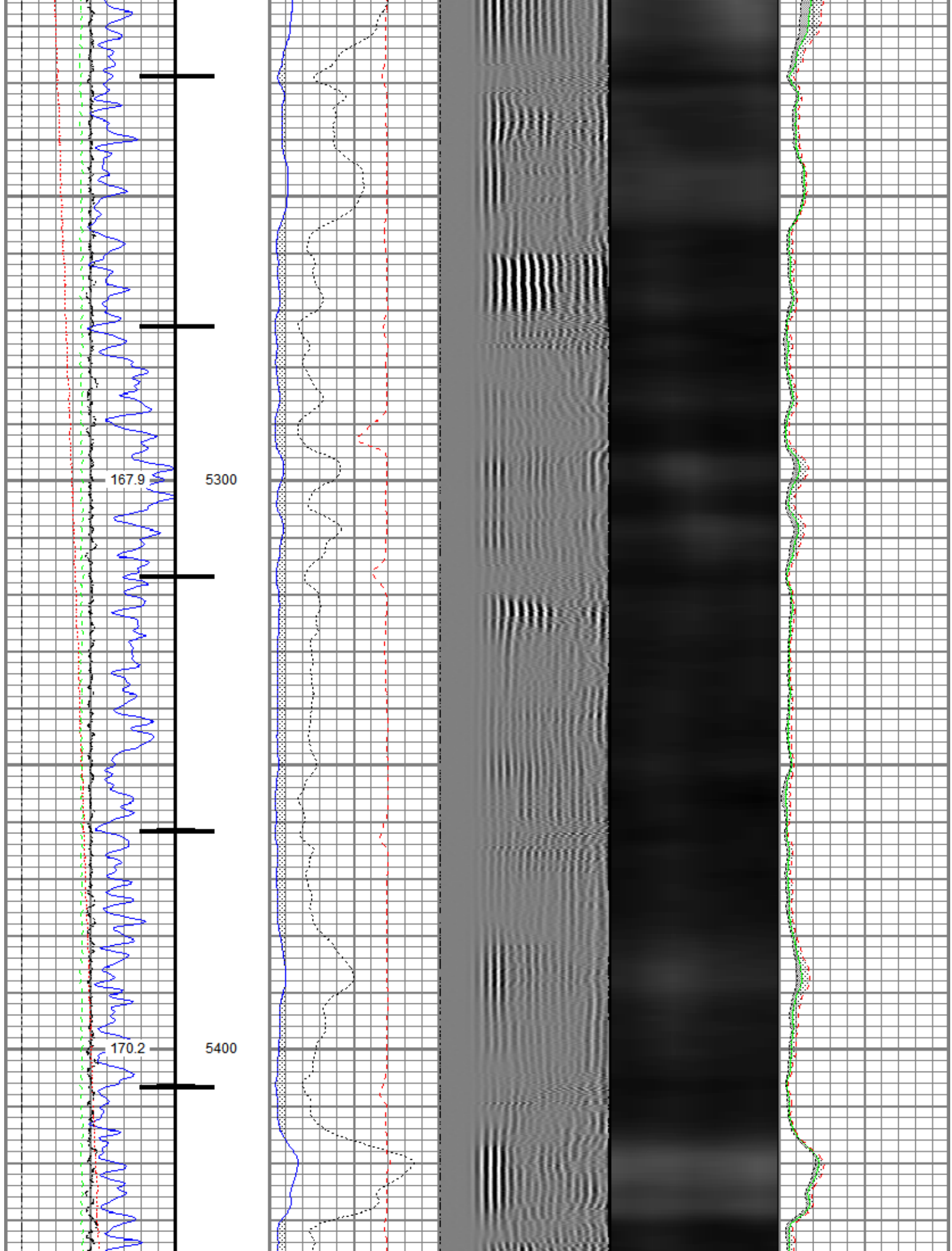


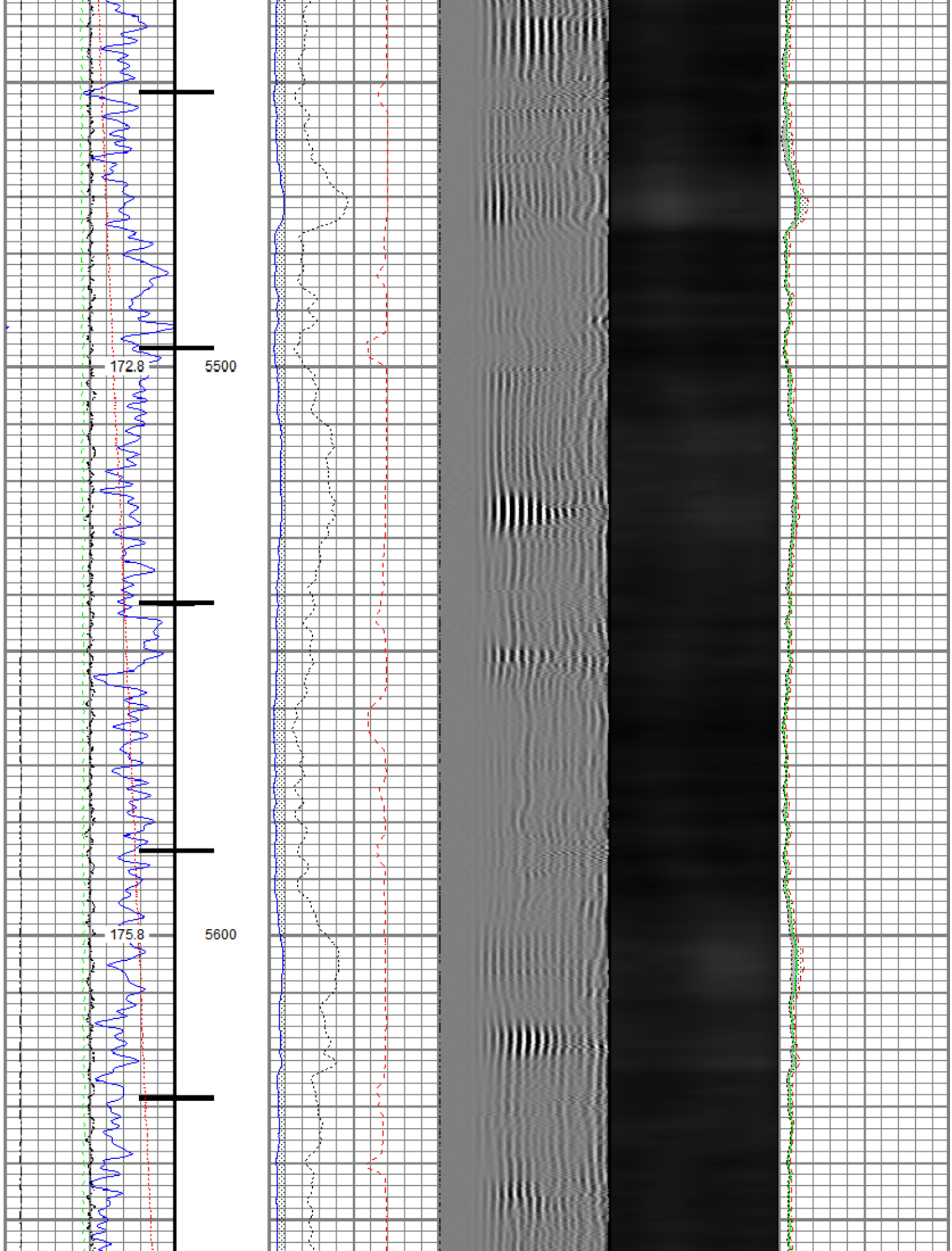


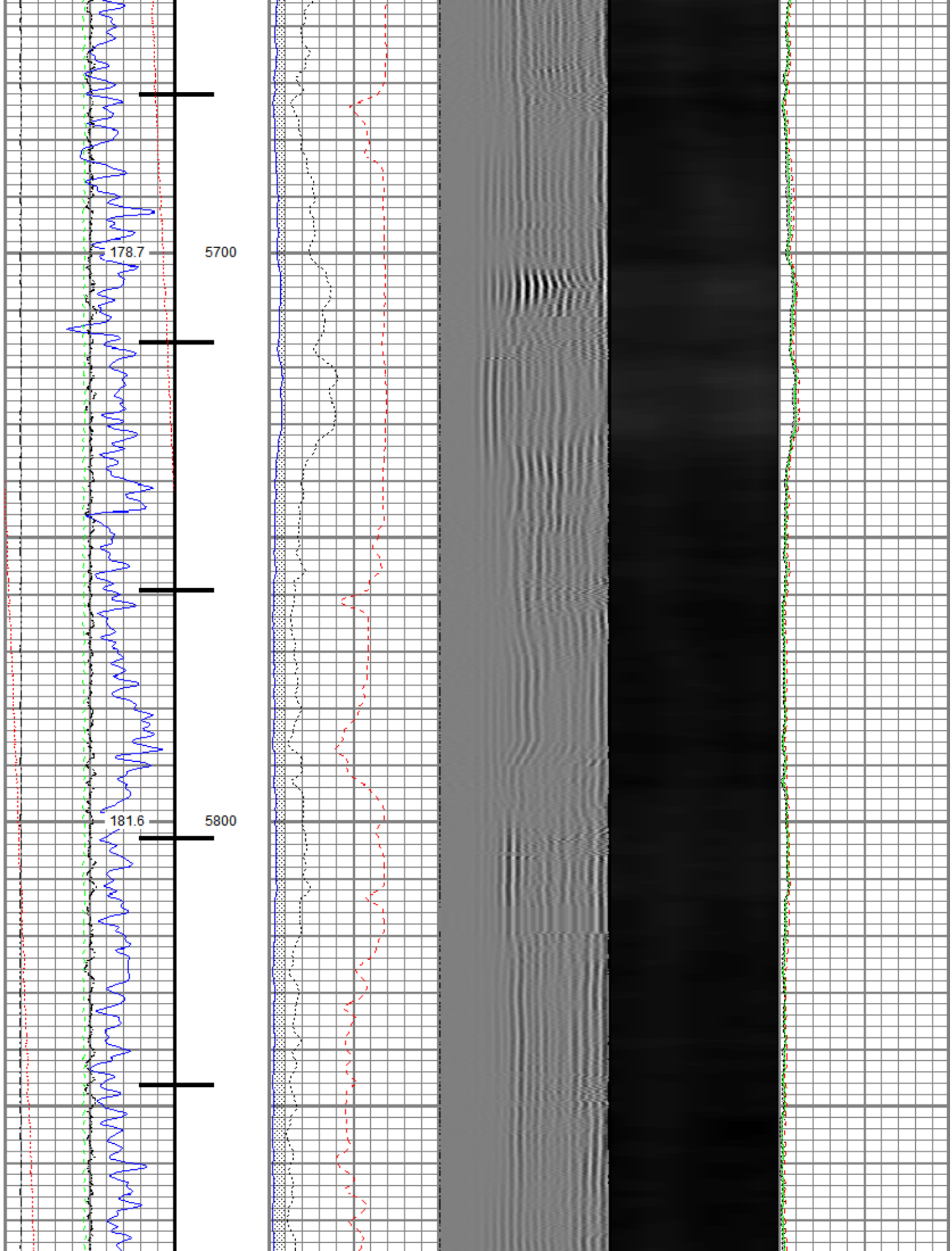


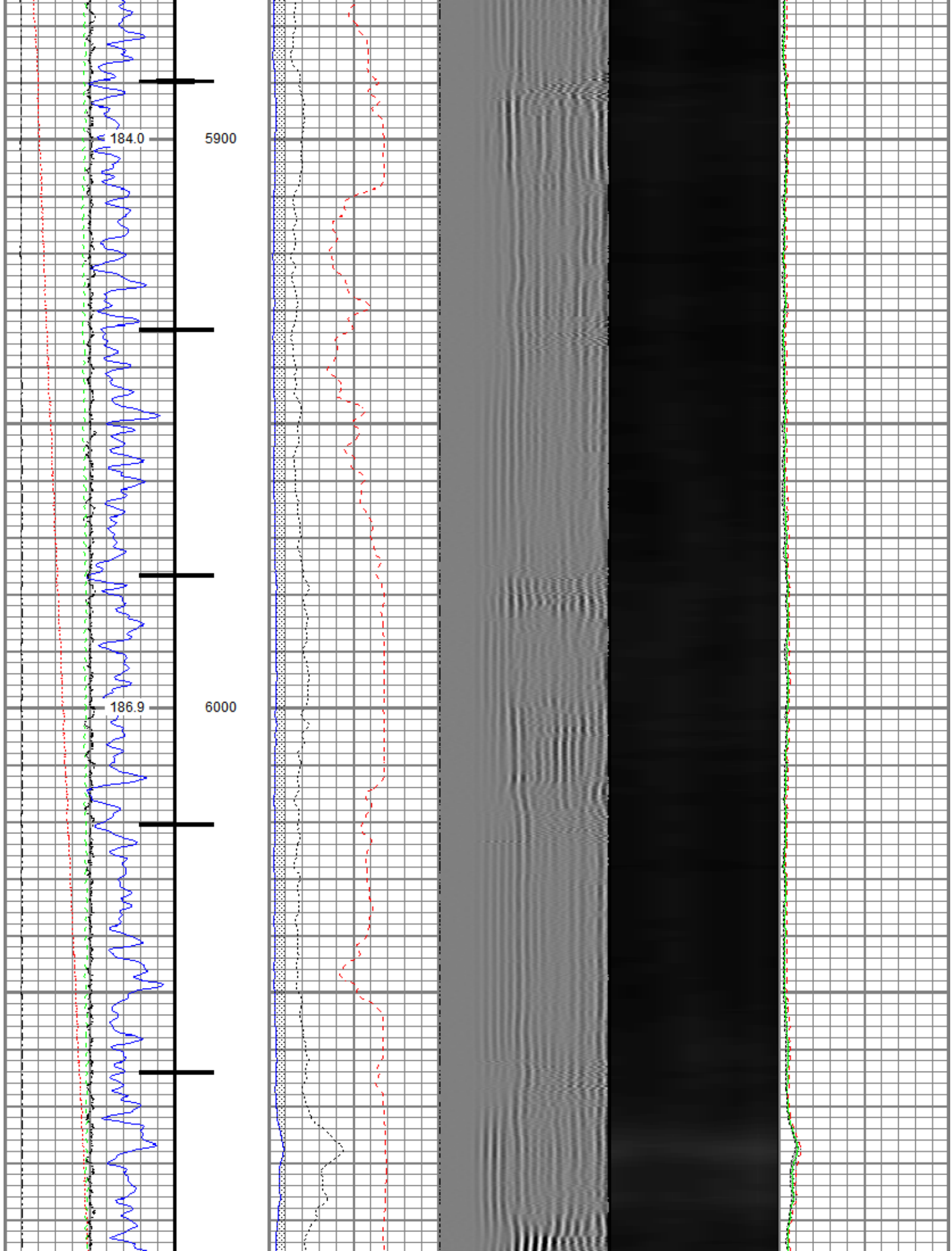


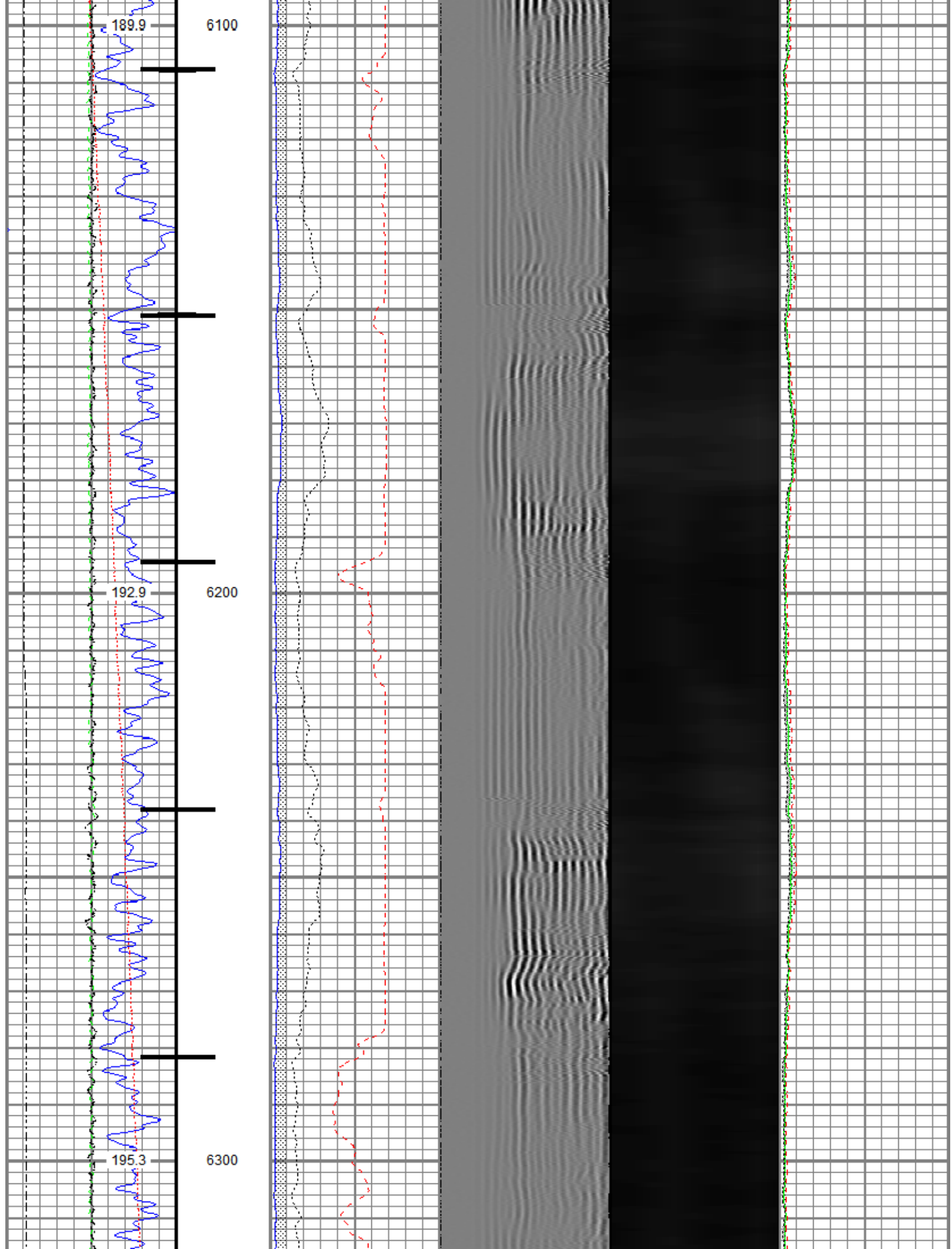


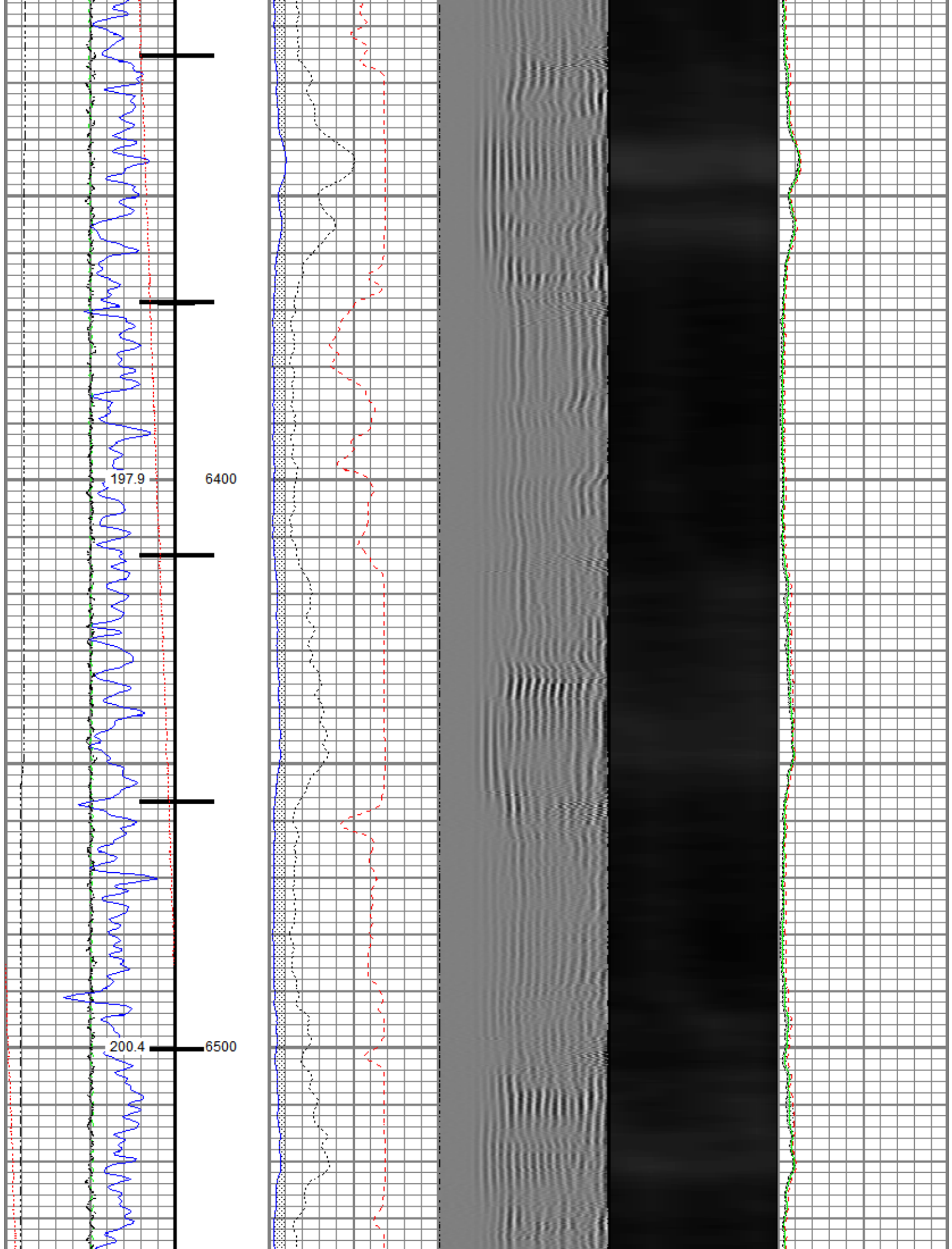


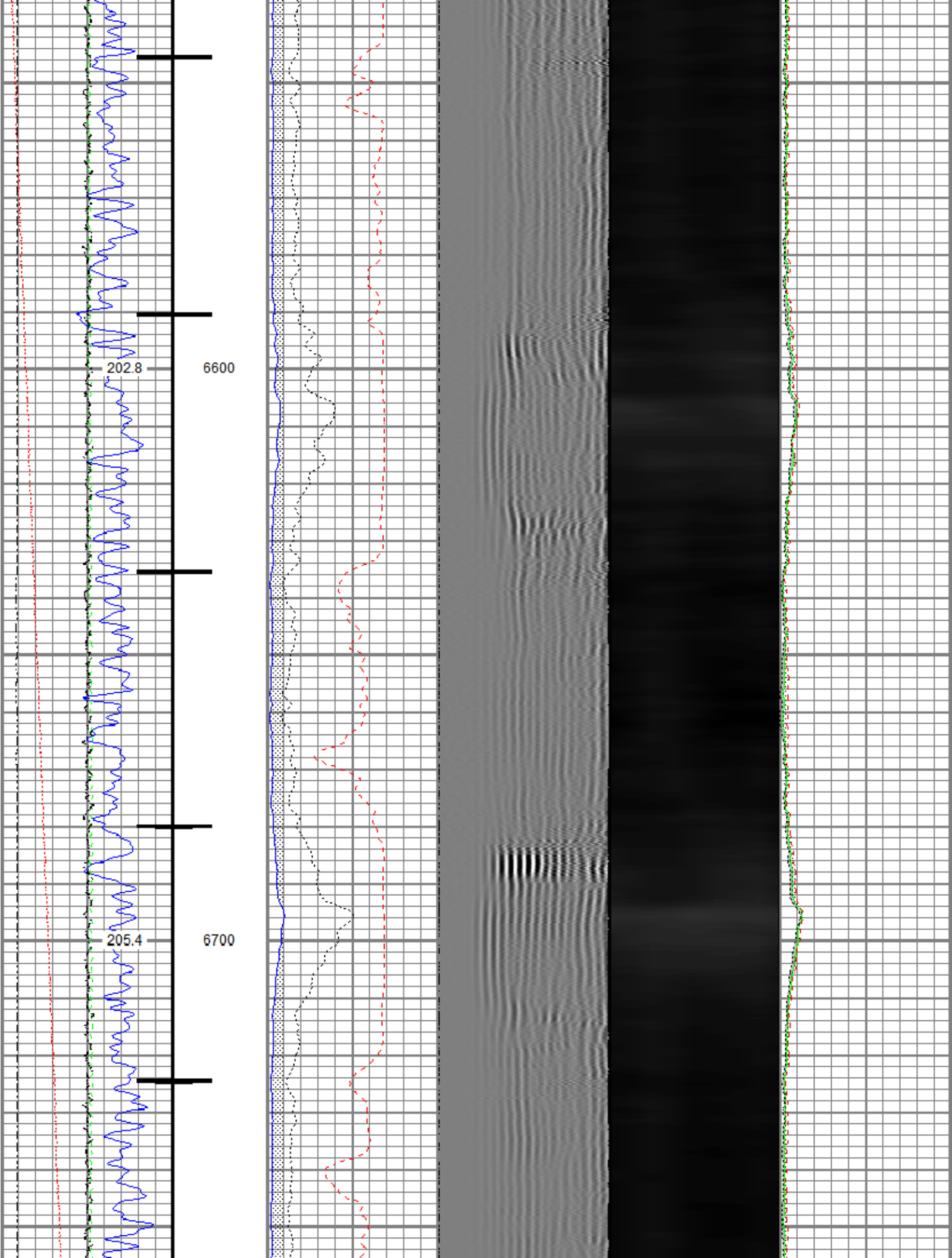


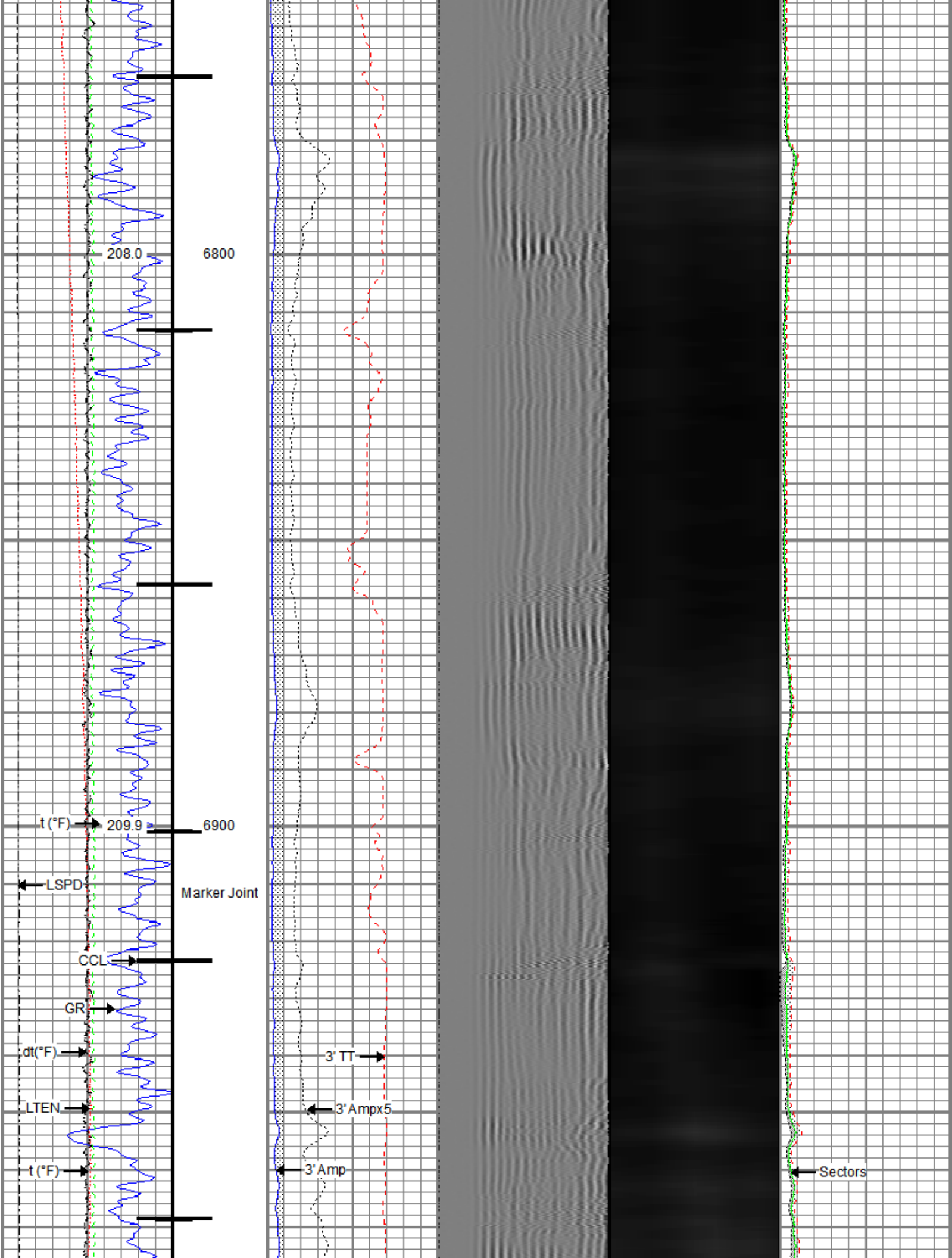


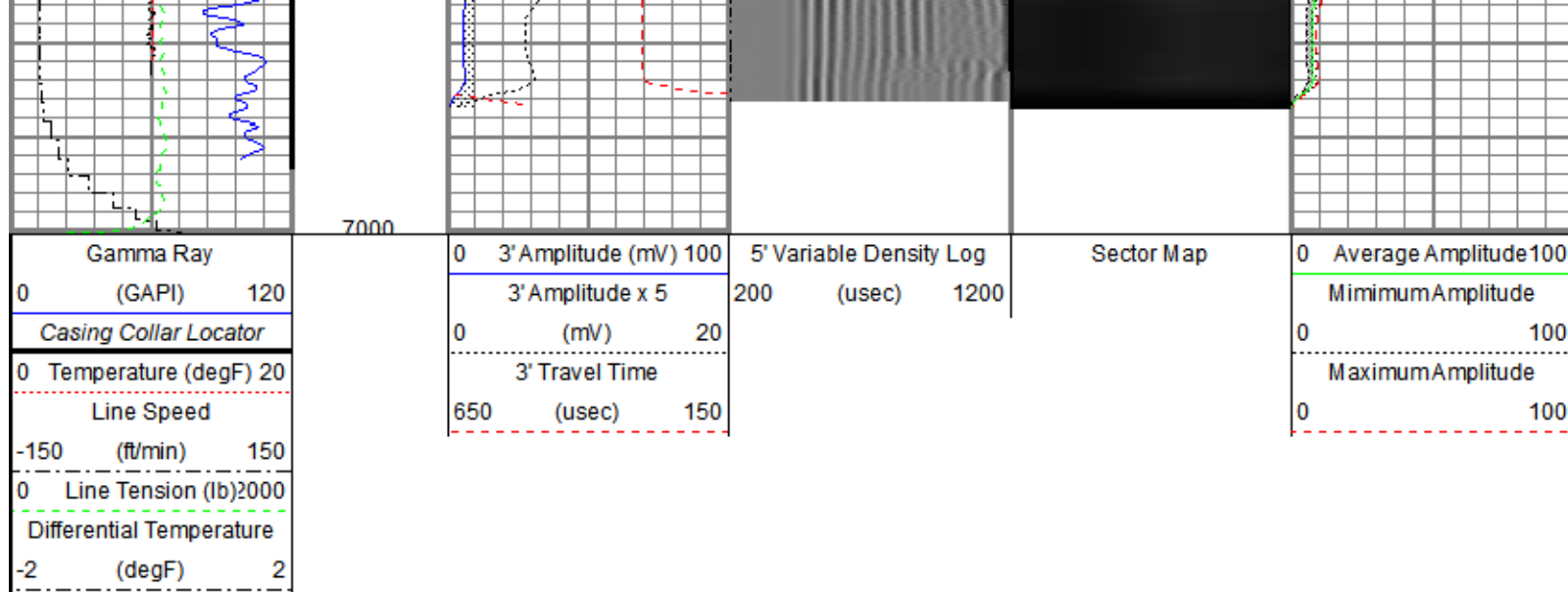








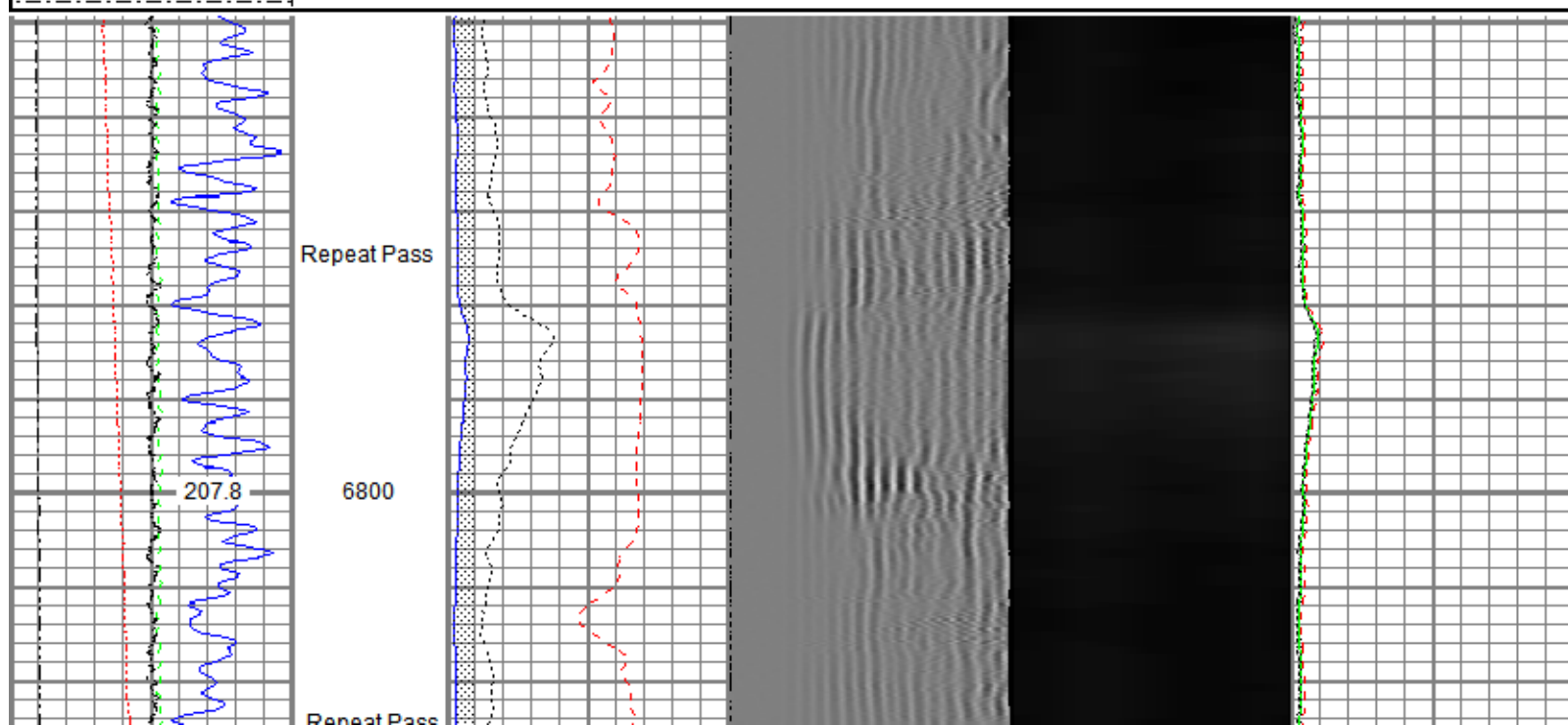
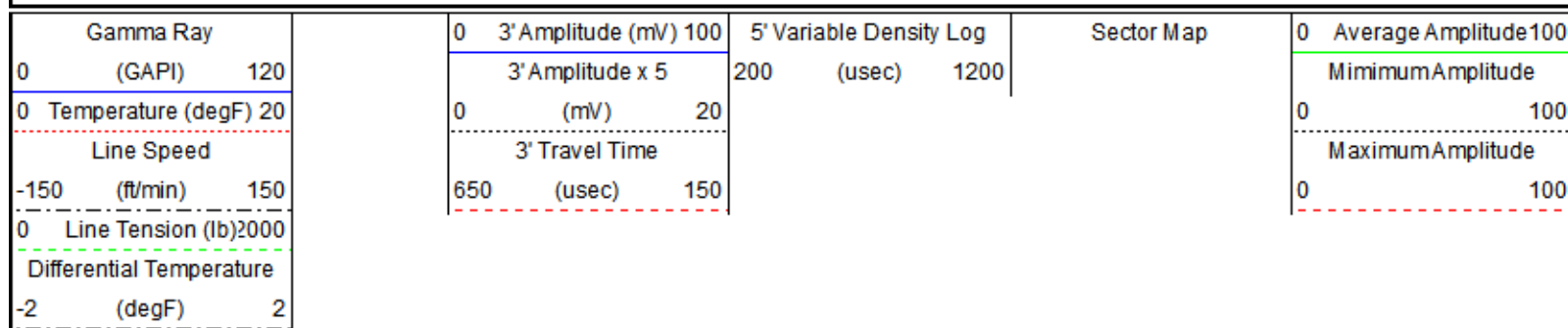


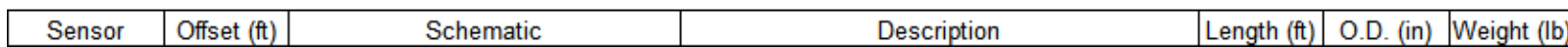


Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

Database File oxy\0506906519_oxy_jodster south 25-11hz_rbl_01-24-20\processed_0506906519_oxy_jodster south 25-11hz_rbl_01-24-20.
 Dataset Pathname RBL/pass4.2
 Presentation Format ros_radil
 Dataset Creation Fri Jan 24 19:06:01 2020
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File c:\programdata\warrior\data\oxy\0506906519_oxy_jodster south 25-11hz_rbl_01-24-20\processed_0506906519_oxy_jodster sou
Dataset Pathname RBL/pass6.1
Dataset Creation Fri Jan 24 15:30:46 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: FW1302-001
Tool Model: 2750 RBTa

Calibration Casing Diameter: 5.500 in
Calibration Depth: -2.294 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.543	0.800	71.921	131.270	0.679
CAL	0.592	0.591				
5'	0.001	0.513	0.800	71.921	138.848	0.728
SUM						
S1	0.000	0.538	0.000	100.000	186.147	-0.074
S2	0.001	0.546	0.000	100.000	183.325	-0.128
S3	0.001	0.560	0.000	100.000	178.809	-0.127
S4	0.001	0.573	0.000	100.000	174.730	-0.189
S5	0.001	0.567	0.000	100.000	176.793	-0.168
S6	0.001	0.565	0.000	100.000	177.489	-0.236
S7	0.000	0.553	0.000	100.000	180.839	-0.045
S8	-0.006	0.547	0.000	100.000	180.692	1.123

Air Zero Calibration, performed Tue Jan 21 08:21:47 2020:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.006		0.000		0.000	
5'	0.008		0.000		0.000	
SUM						
S1	0.005		0.000		0.000	
S2	0.007		0.000		-0.000	
S3	0.007		0.000		-0.000	
S4	0.007		0.000		0.000	
S5	0.007		0.000		-0.000	
S6	0.006		0.000		0.000	
S7	0.007		0.000		-0.000	
S8	0.007		0.000		-0.000	

Inclinometer Calibration Report


Performed: Tue Dec 03 09:24:53 2019

Low Read. High Read. Low Ref. High Ref.

X Accelerometer

	-900.00	892.00	-1.00	1.00	gee
Y Accelerometer	-922.00	893.00	-1.00	1.00	gee
Z Accelerometer	7.38	894.40	0.00	1.00	gee

Temperature Calibration Report					
Serial Number:	FW1302-001				
Tool Model:	2750 RBTa				
Performed:	Tue Dec 03 09:24:53 2019				
	Reference		Reading		
Low Reference:	100.00	degF	107.47	degF	
High Reference:	350.00	degF	404.08	degF	
Gain:	0.84				
Offset:	9.42				
Delta Spacing	1				

	Company	Kerr-McGee Oil & Gas Onshore, L.P.
	Well	Jodster South 25-11HZ
	Field	Wattenberg
	County	Larimer
	State	Colorado