



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company SRC Energy Inc		Well Troudt 41N-23C-M		Field Wattenberg		County Weld		State Colorado	
Location:		SEC 27 TWP 6N RGE 66W		API #: 05-123-46237		Other Services JBGR RBP		Elevation	
Permanent Datum		Ground Level		Elevation		---		K.B. ---	
Log Measured From		Ground Level		0 FT		---		D.F. ---	
Drilling Measured From		Kelly Bushing		---		---		G.L. ---	
Date	02-OCT-2018								
Run Number	Three								
Depth Driller	15570 FT (GL)								
Depth Logger	7025 FT								
Bottom Logged Interval	7010 FT								
Top Log Interval	Surface								
Open Hole Size	---								
Type Fluid	Water								
Density / Viscosity	8.34 lb/gal								
Max. Recorded Temp.	213°F								
Estimated Cement Top	See Log								
Time Well Ready	ROA								
Time Logger on Bottom	09:02								
Equipment Number	HD-0324								
Location	Platteville, CO								
Recorded By	M. Steinman								
Witnessed By	Bill Wall								
Borehole Record				Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To		
Casing Record	Size (in)	Wgt (lbs/ft)	Grade	Top	Bottom				
Surface Casing	9 5/8	36	---	Surface	---				
Intermediate #1	5 1/2	20	HCP-110	Surface	15555.32 FT				
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 Ground Level at 0 FT
Unable to log Casing Tally reported Marker Joint at 7209 FT due to RBP set depth at 7025 FT
Gauge Ring/Junk Basket ran to 7388 FT with no debris
Log ran from 7010 FT 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!!

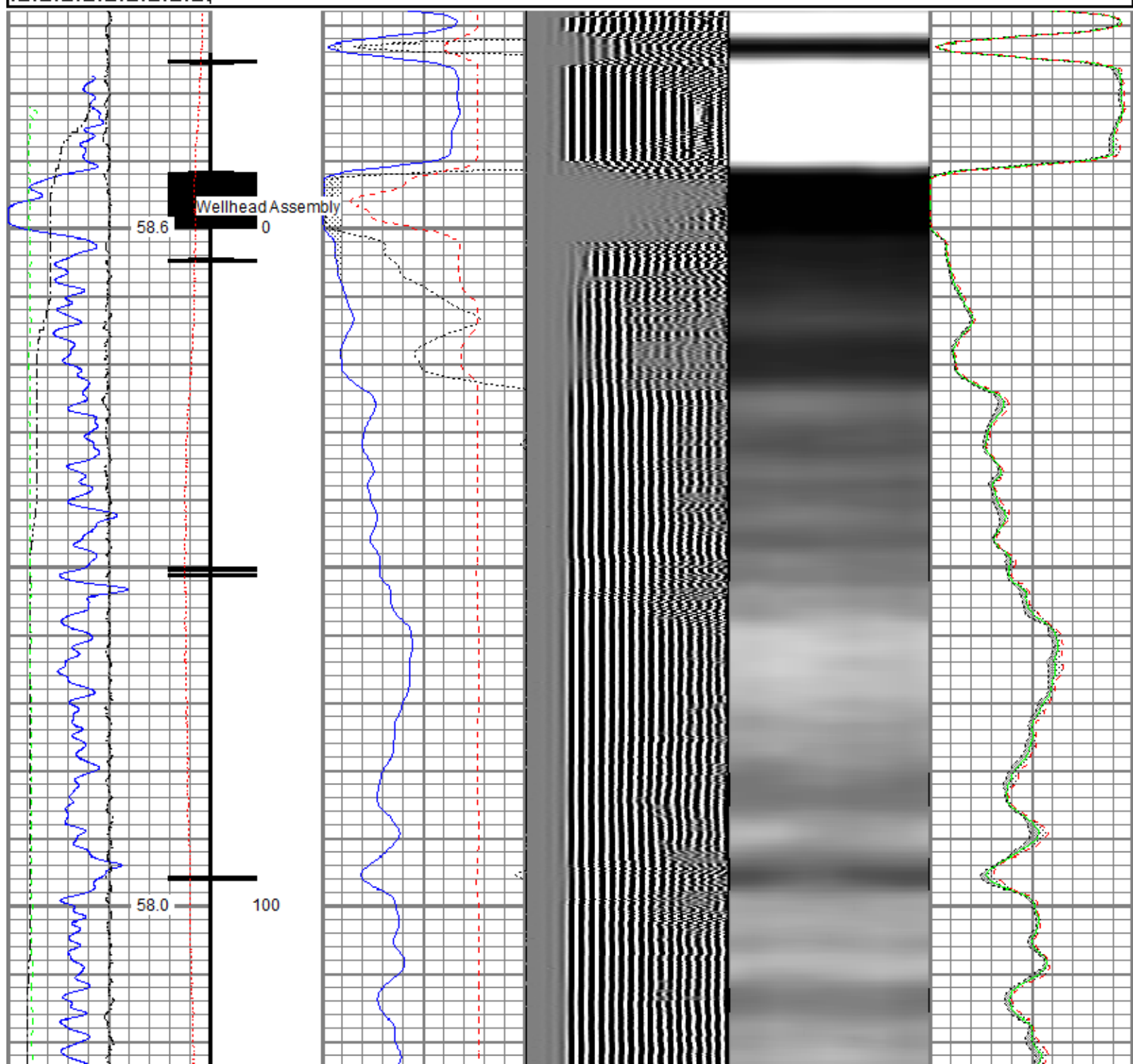


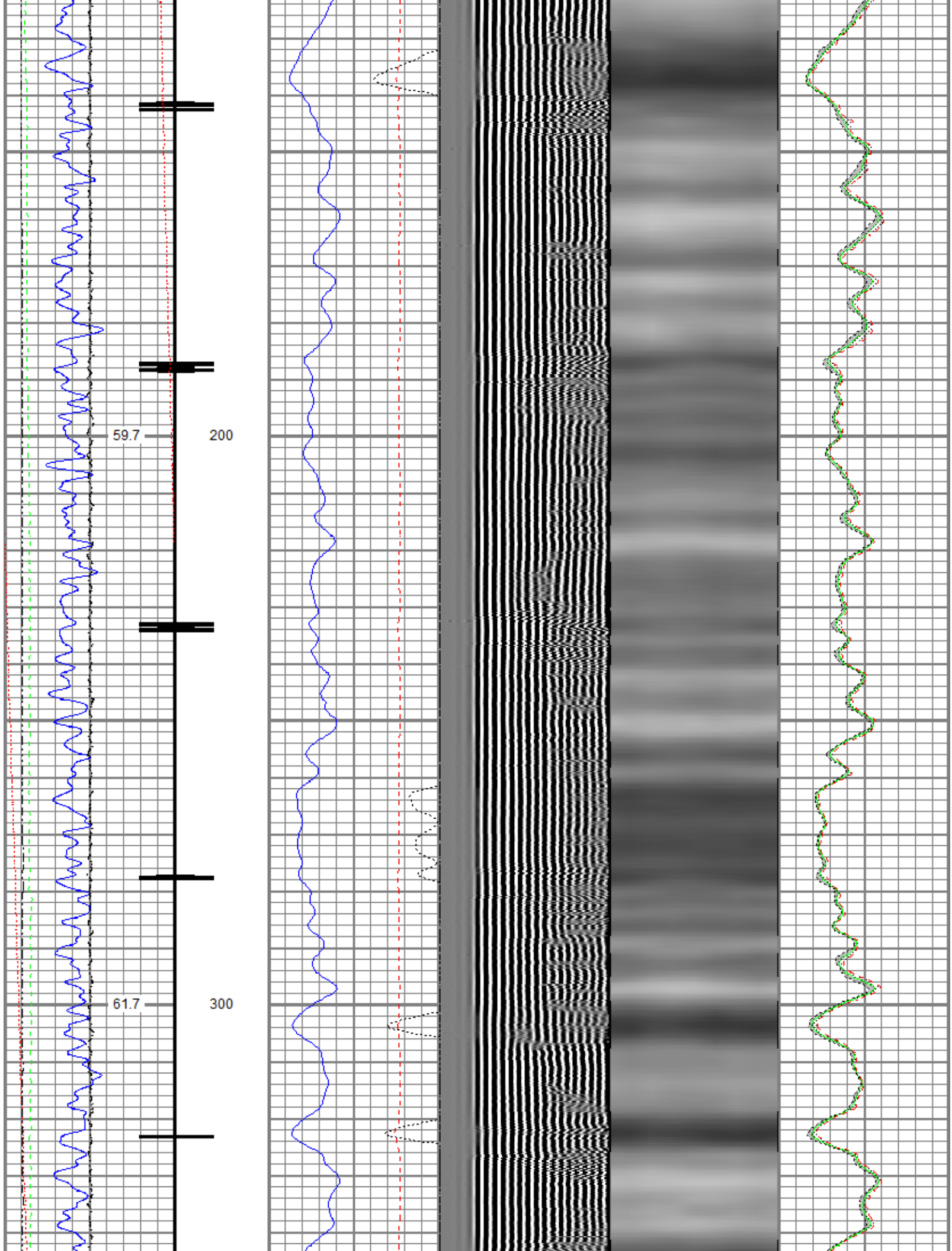
Main Pass

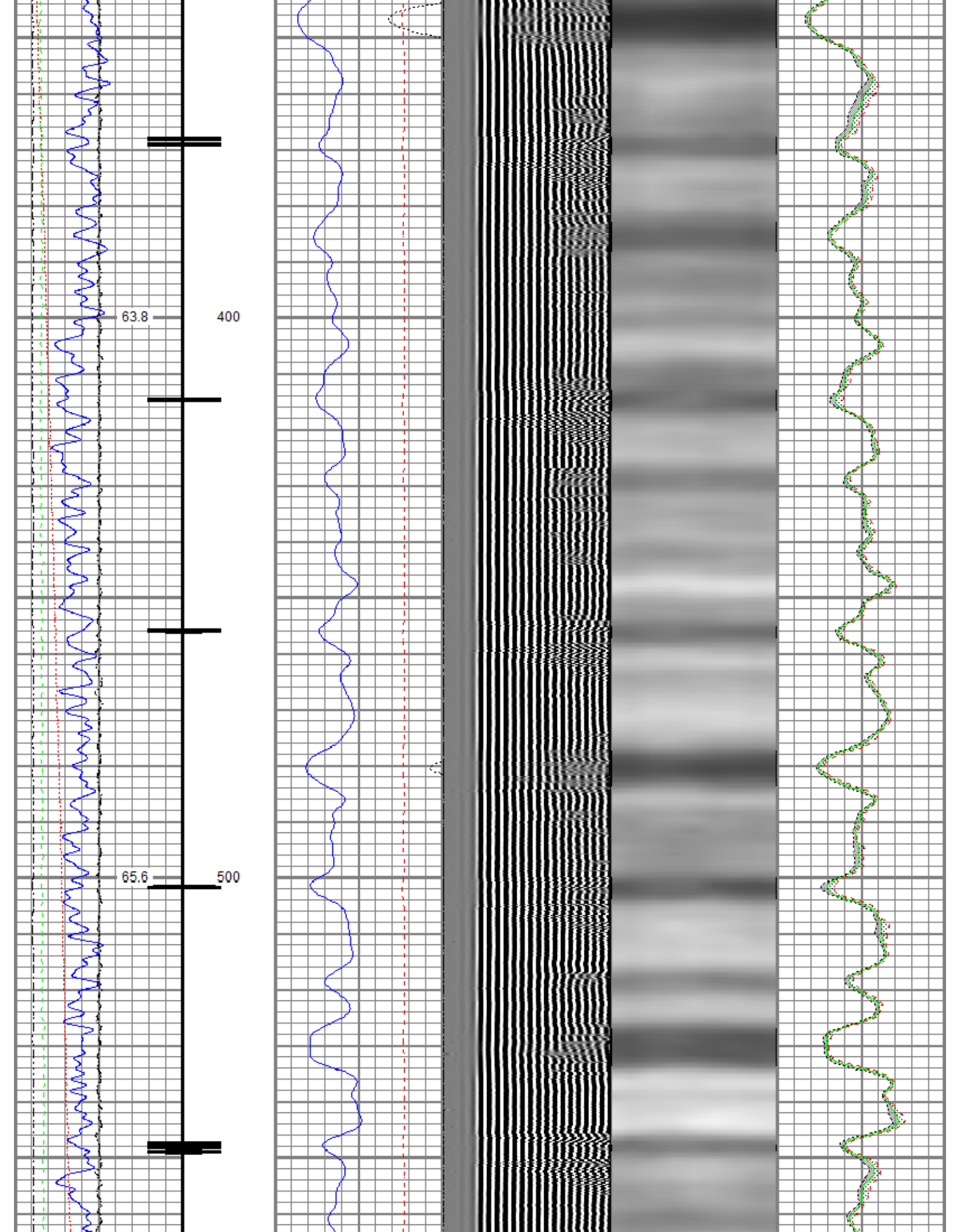
Recorded With 2500 PSI Surface Induced Pressure

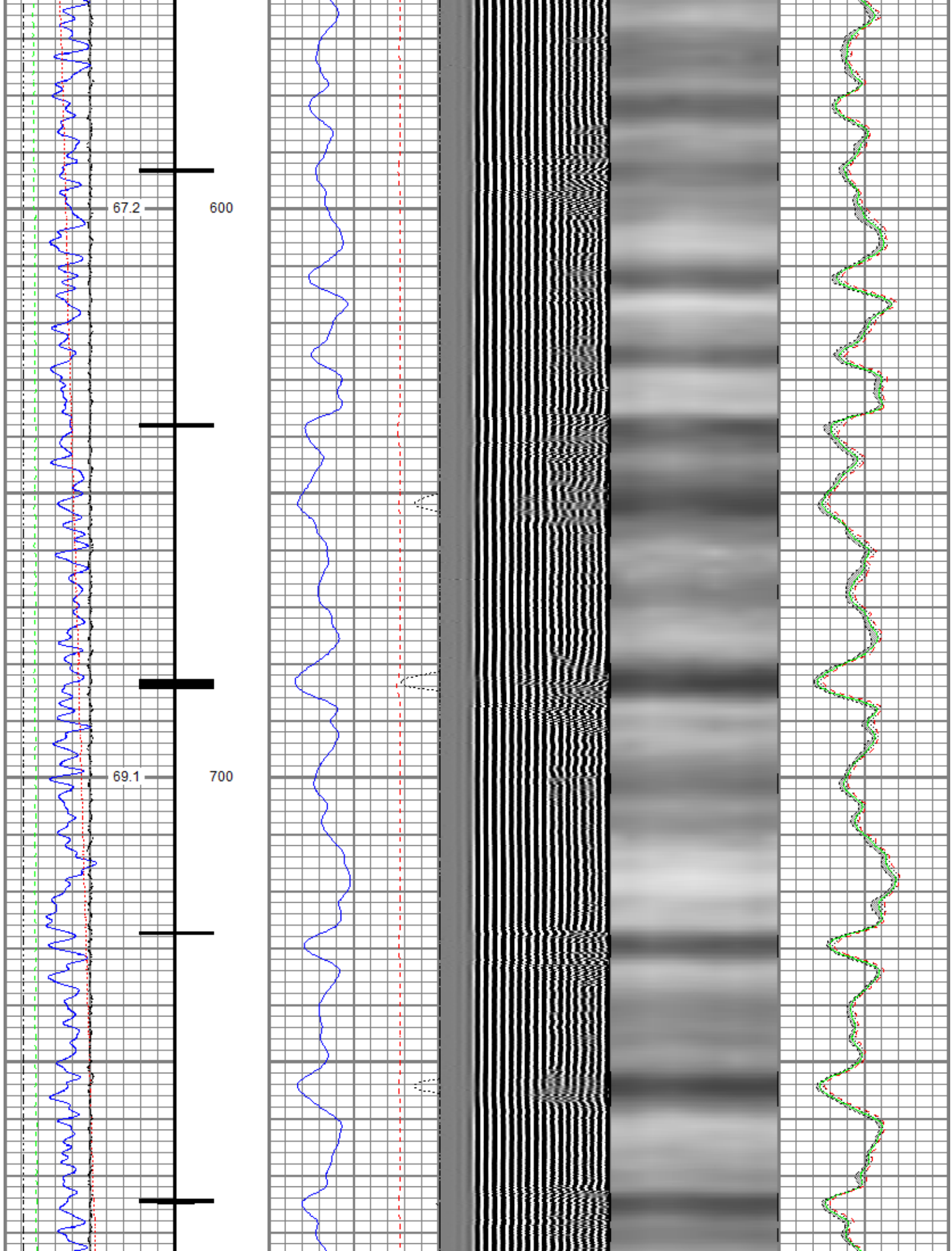
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 Dataset Pathname main
 Presentation Format ros_radrii
 Dataset Creation Tue Oct 02 09:02:29 2018
 Charted by Depth in Feet scaled 1:240

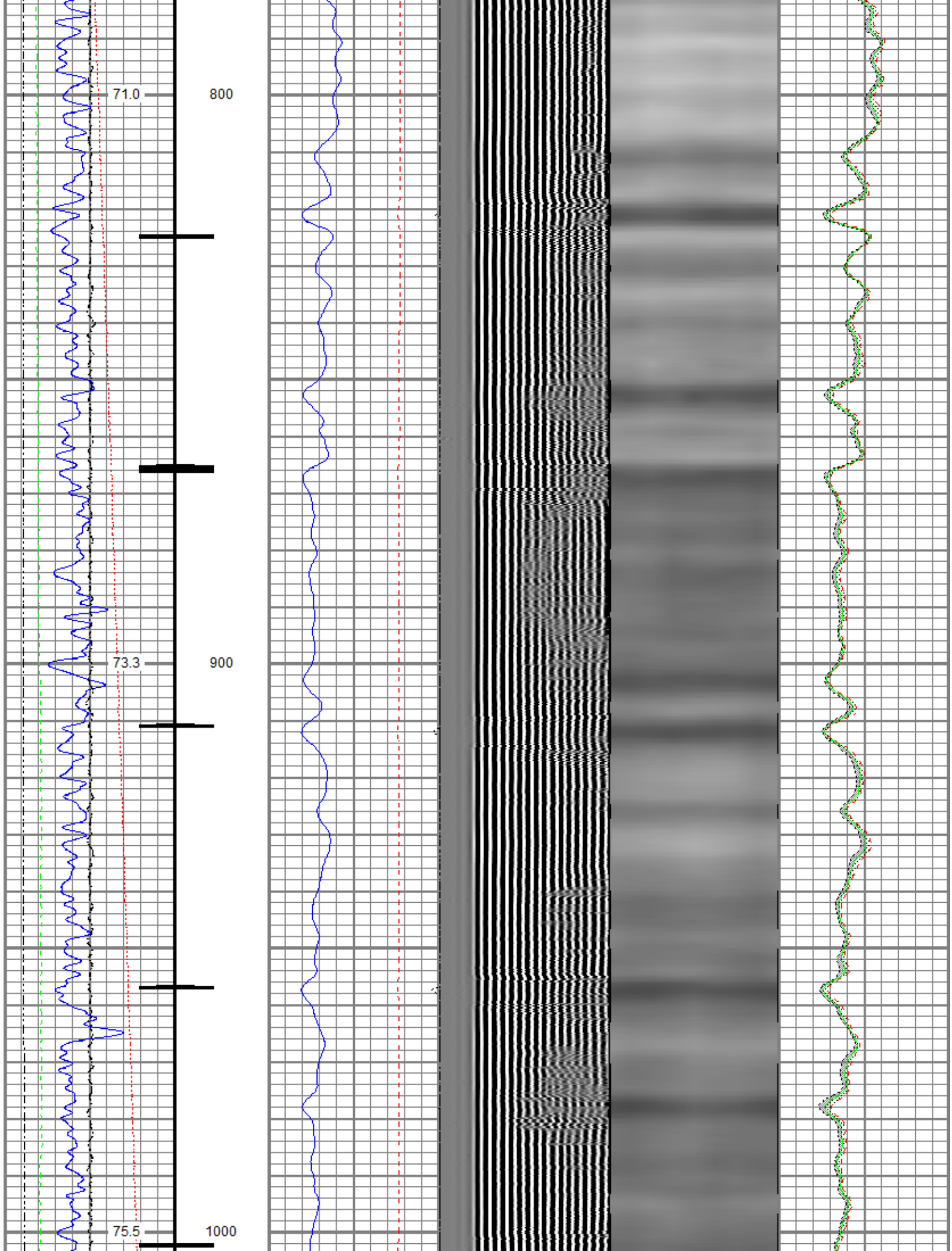
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min) 150				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

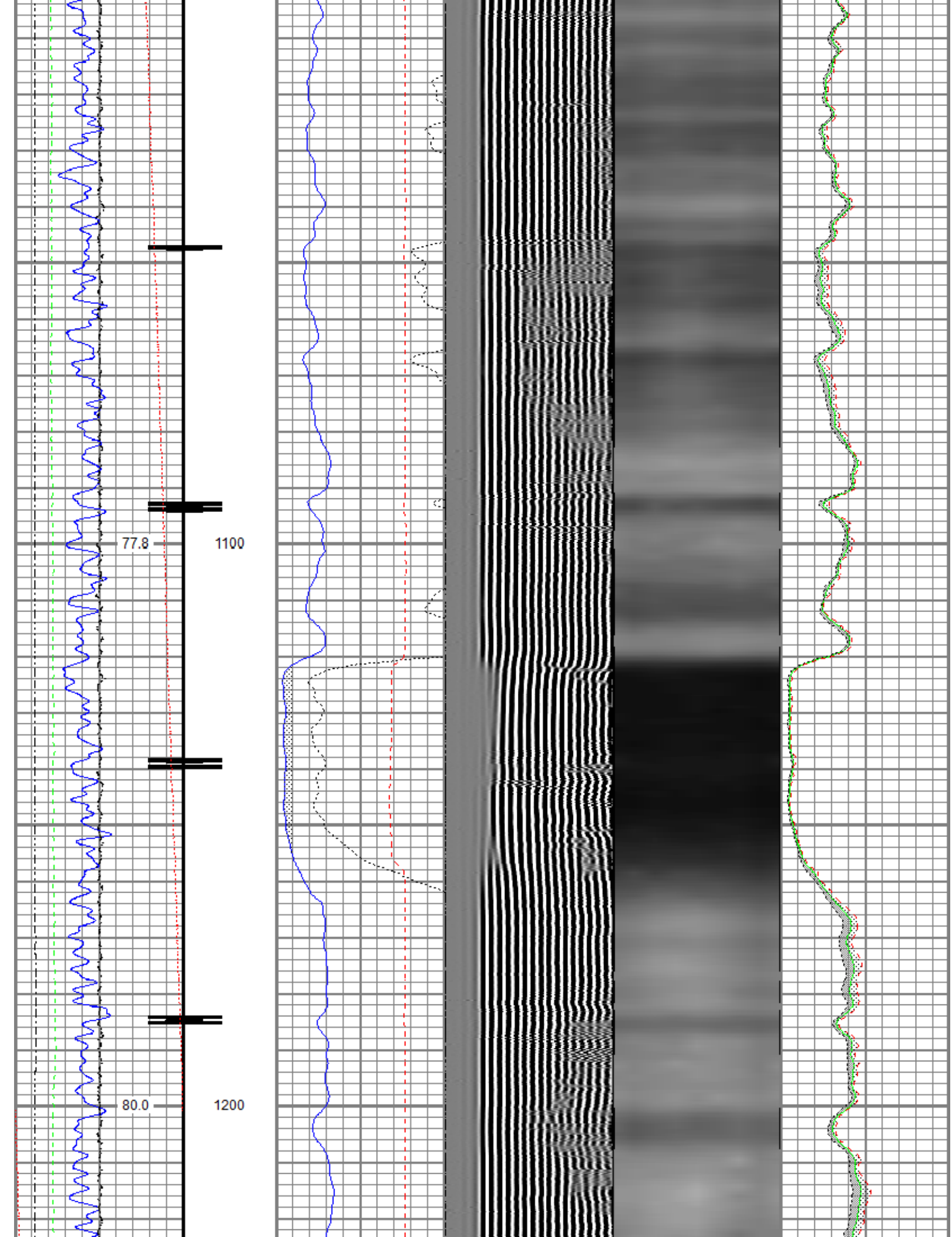


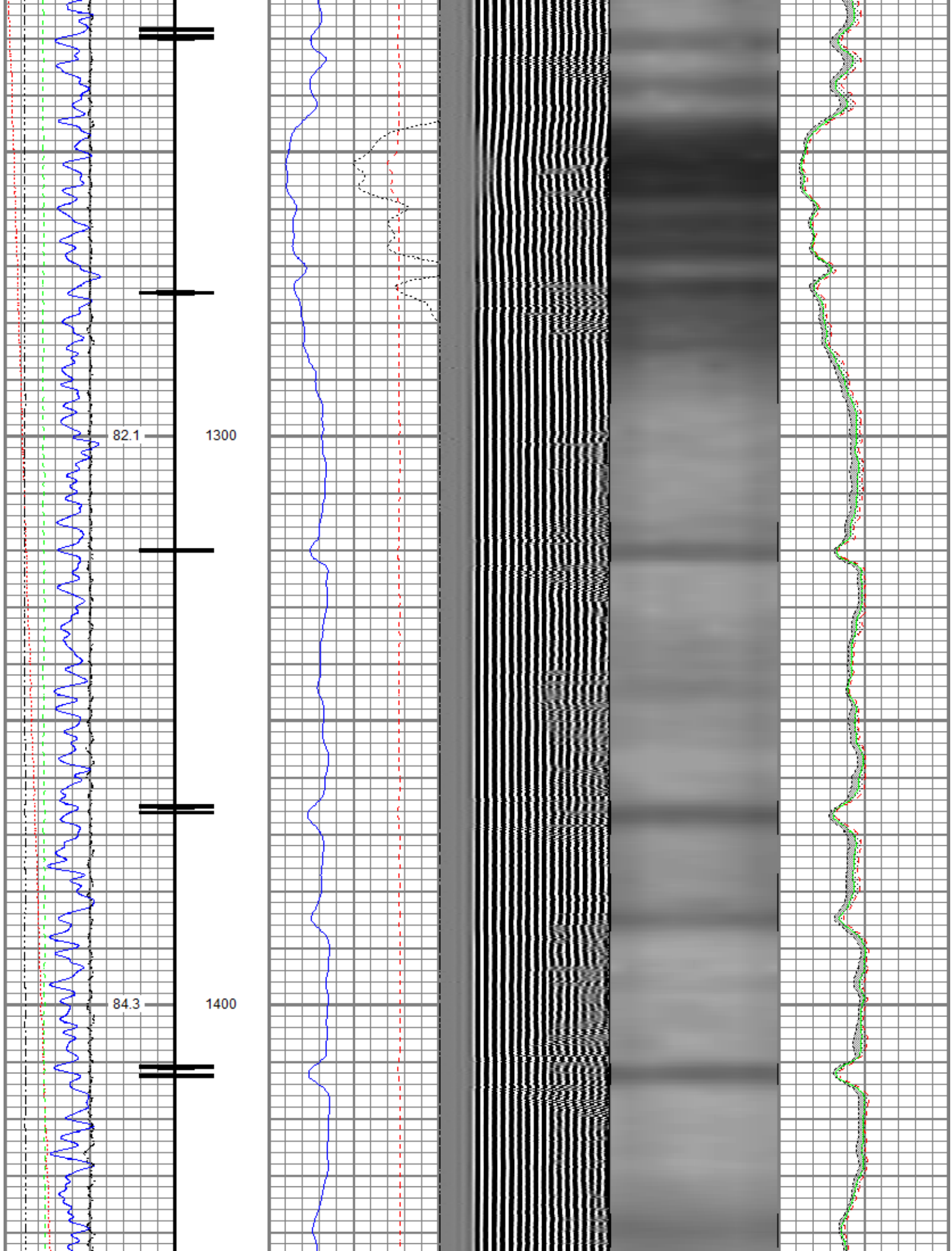


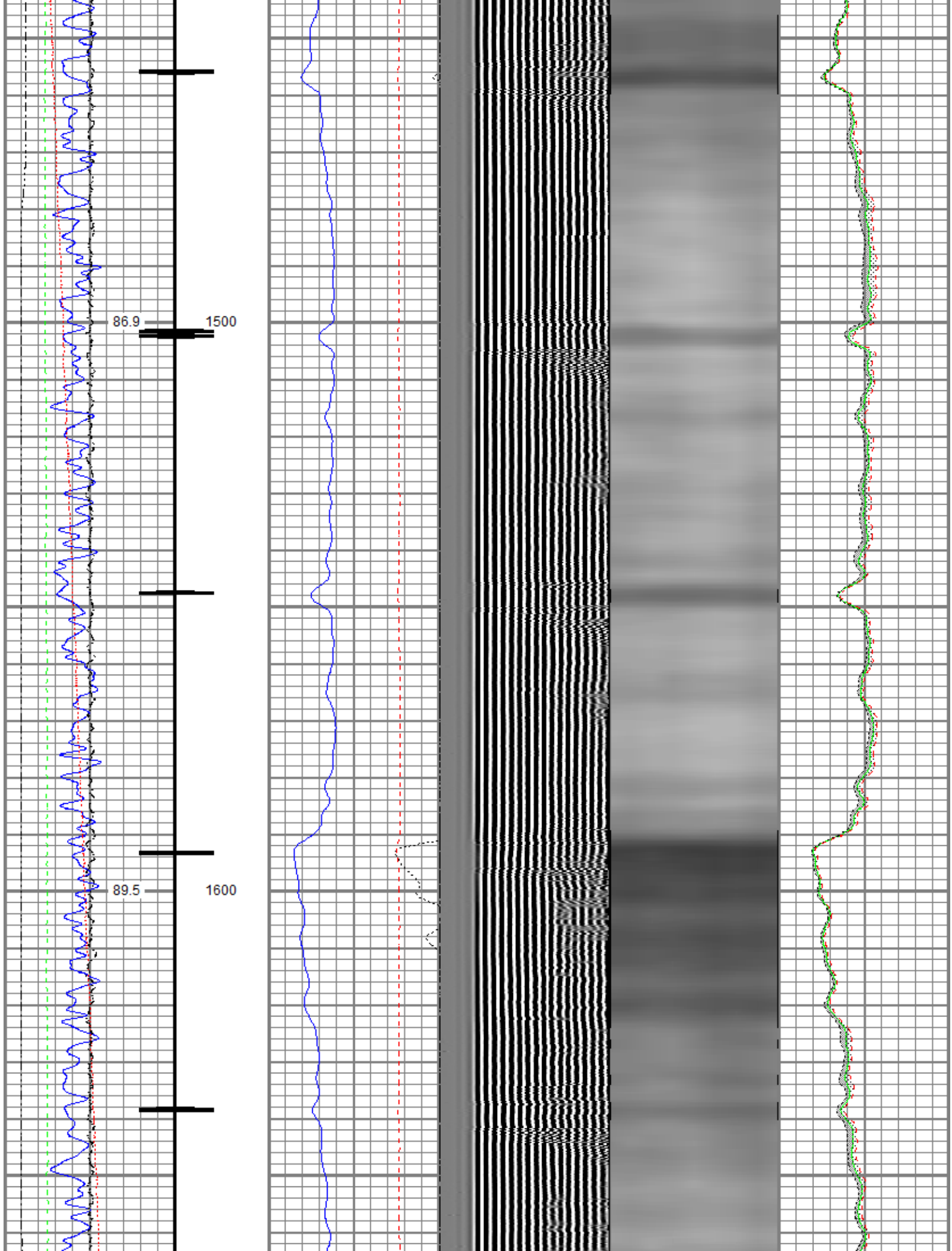


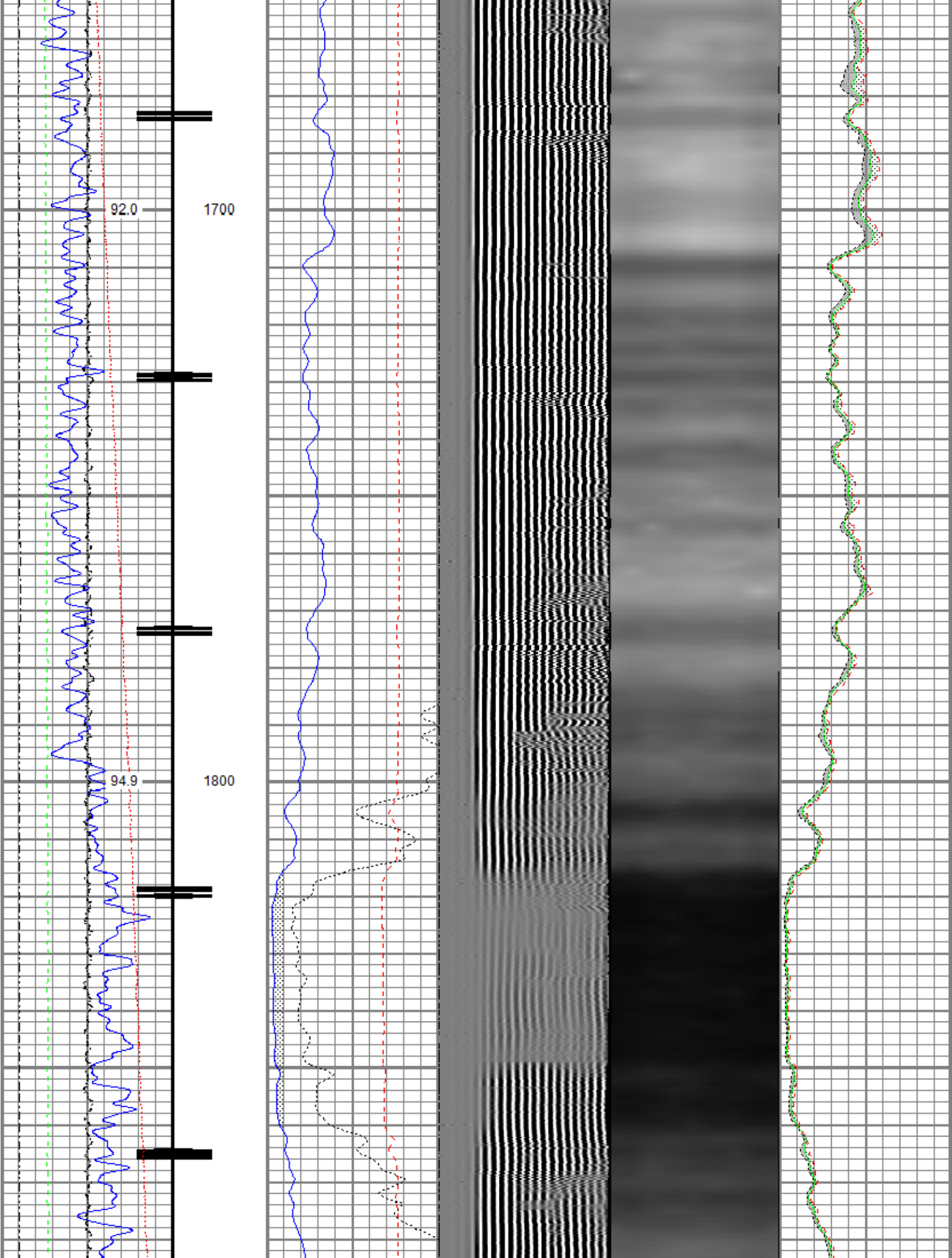


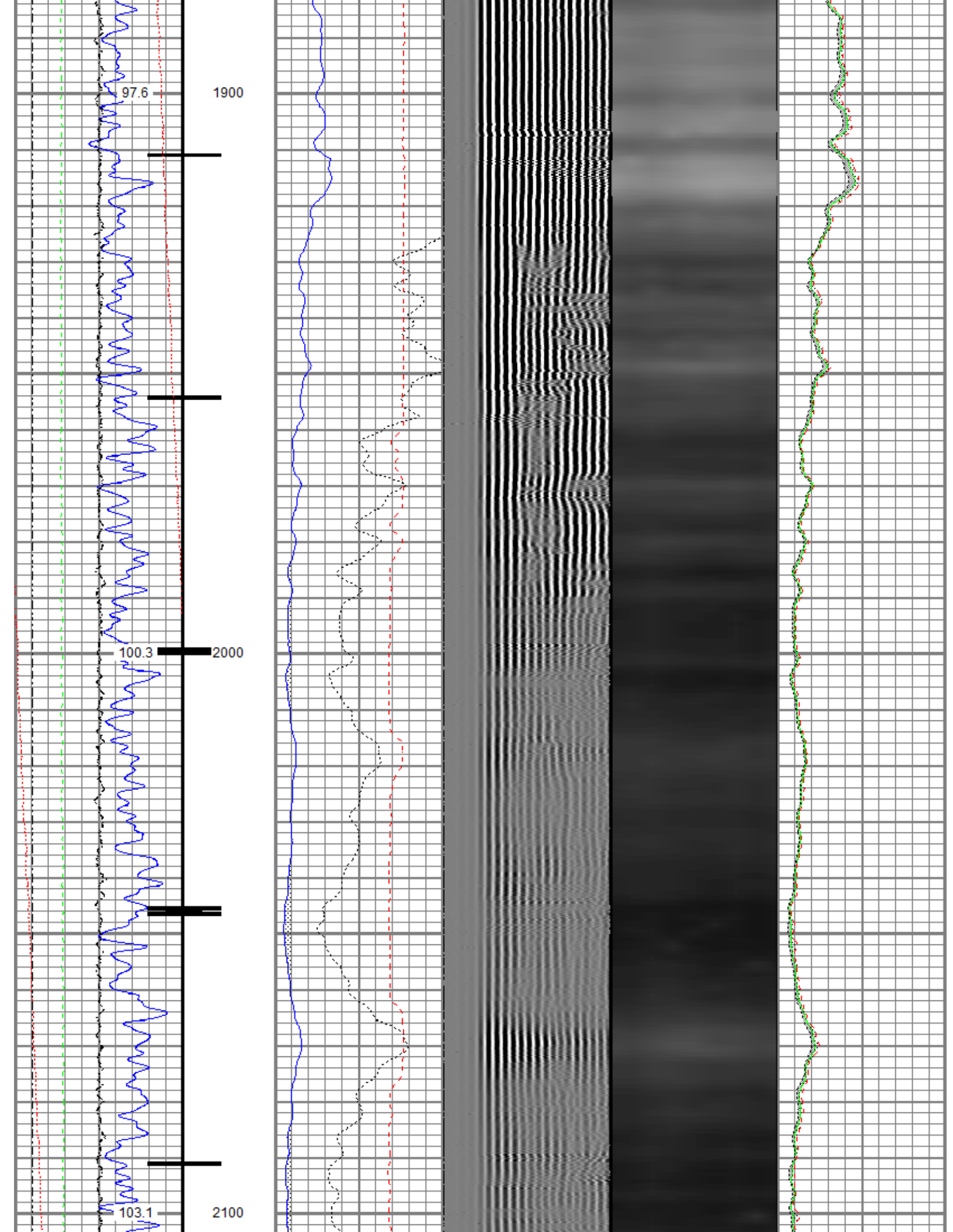


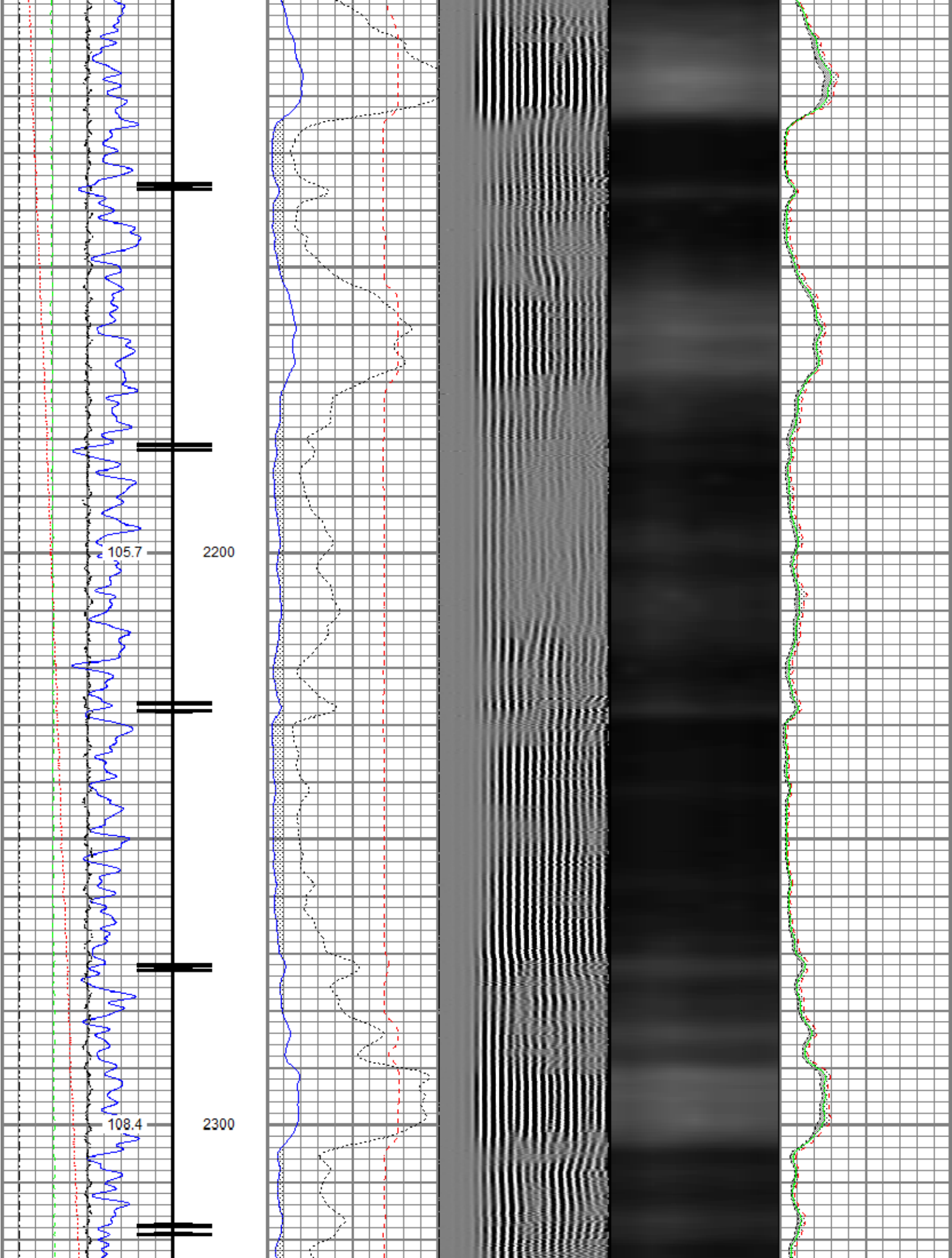


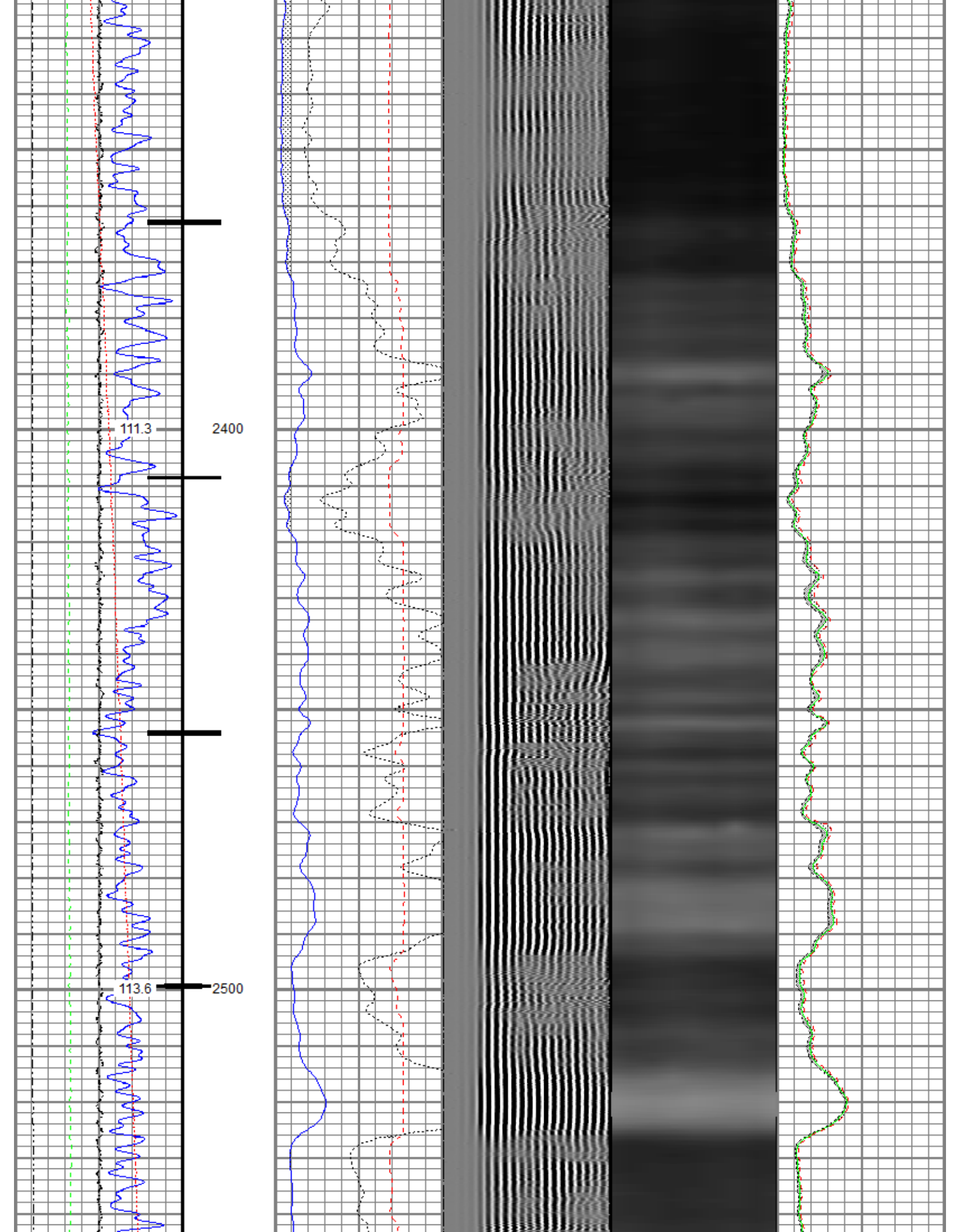


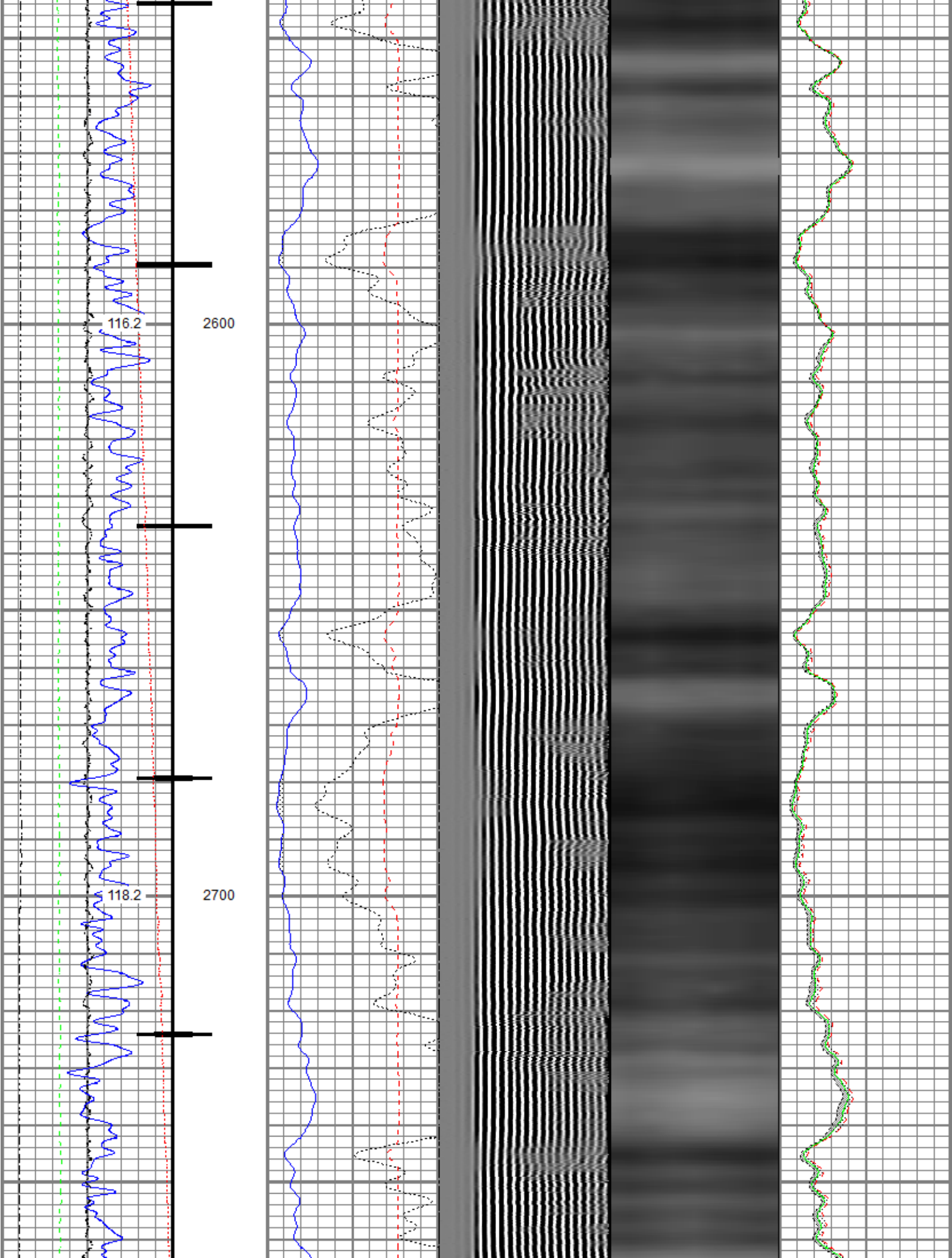


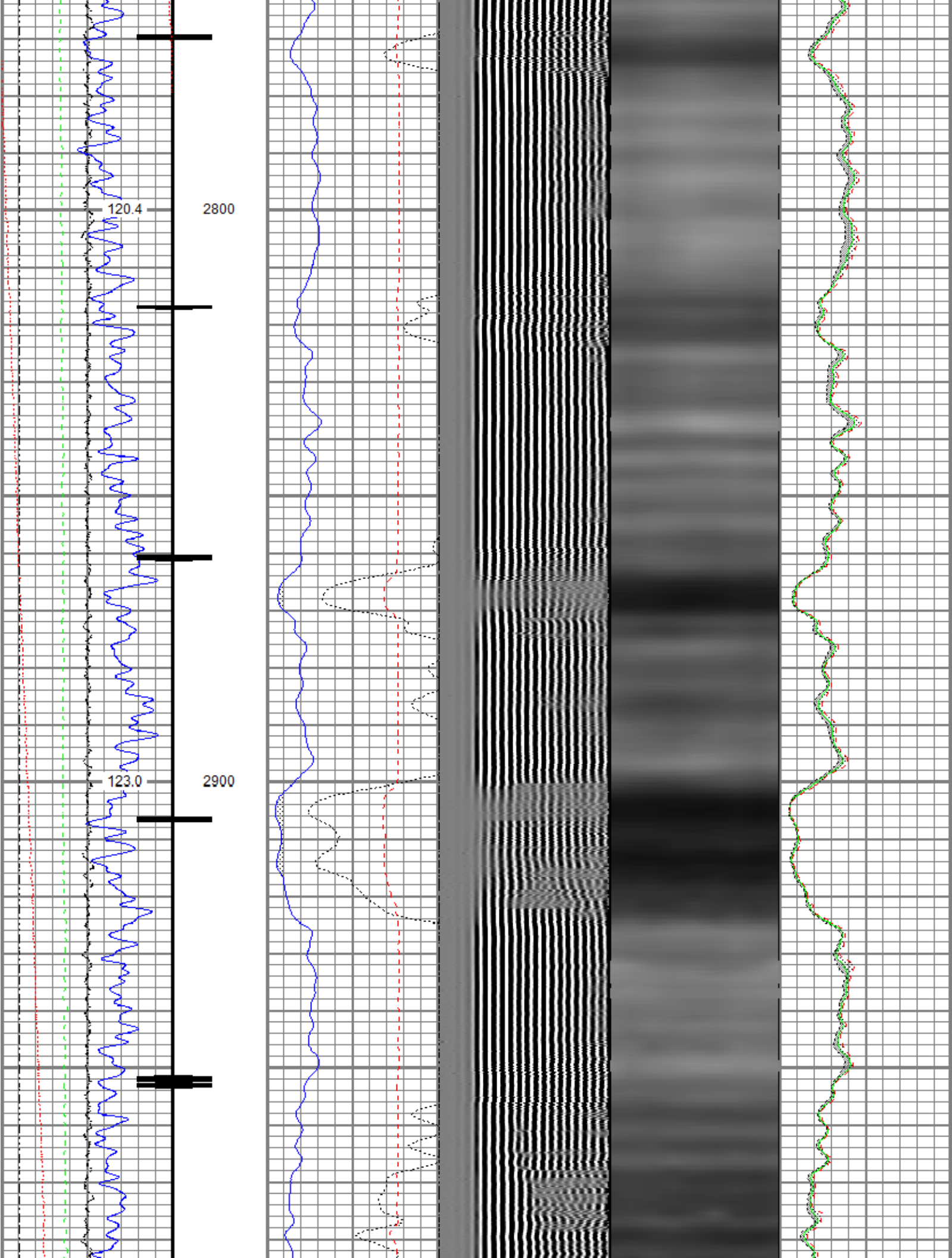


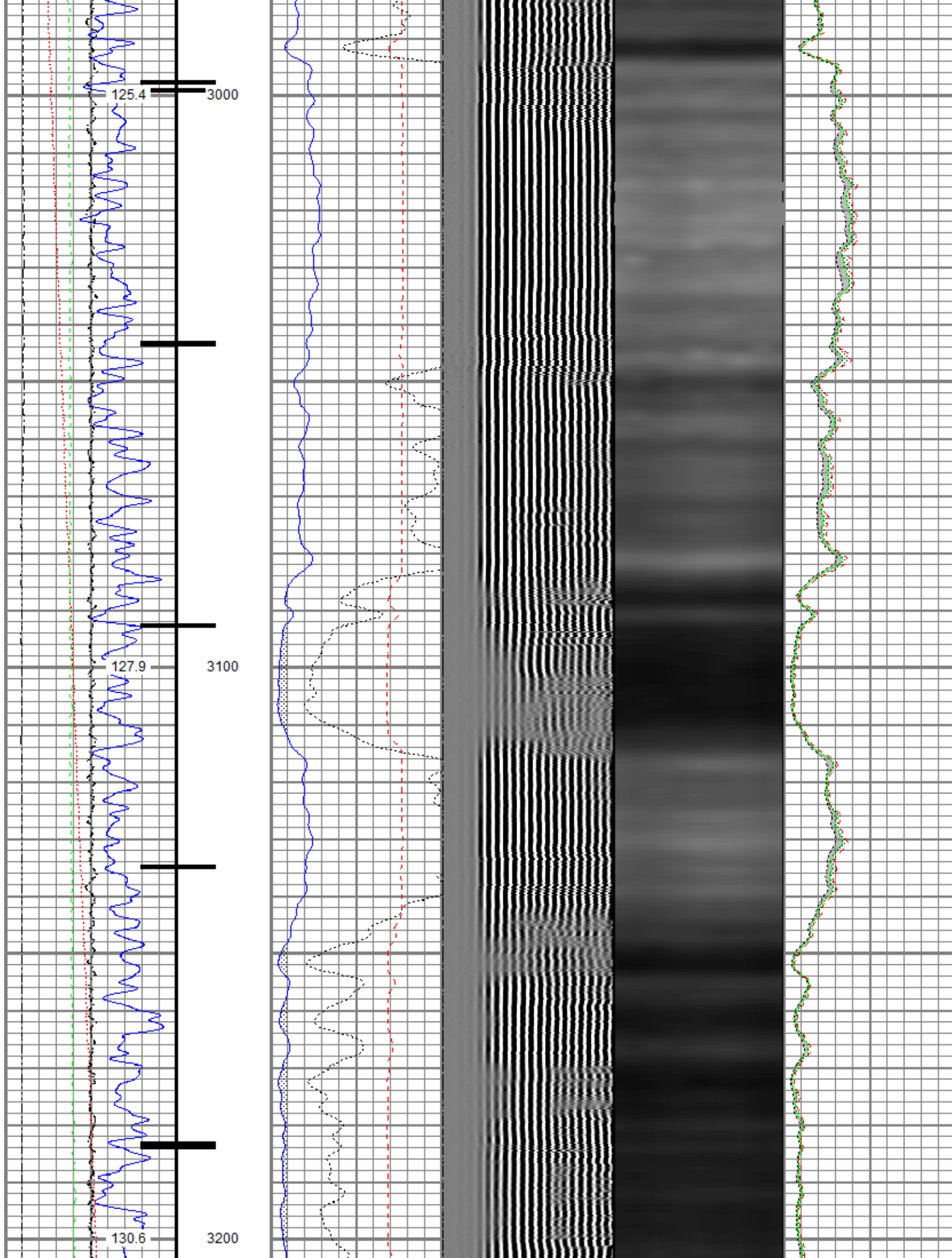


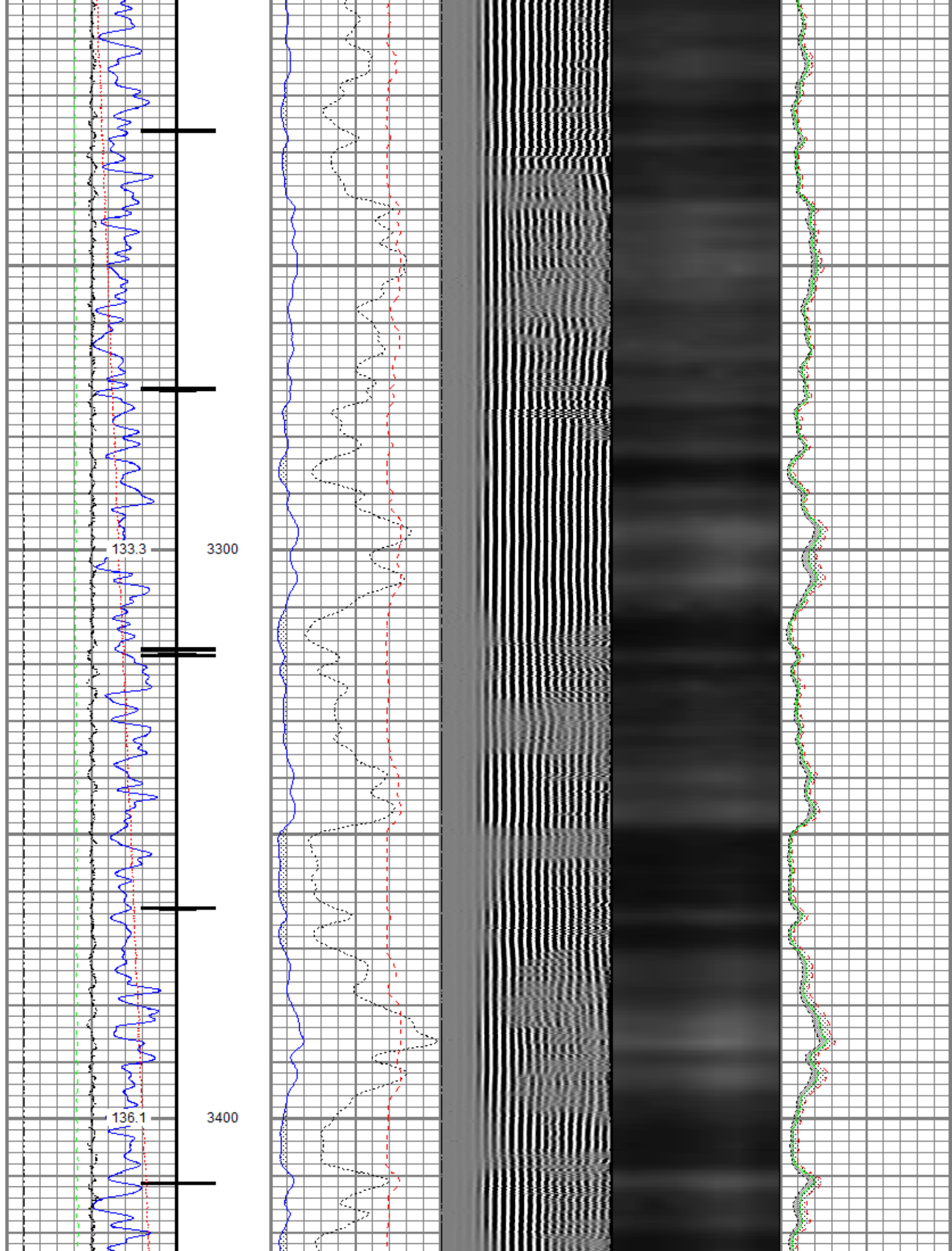


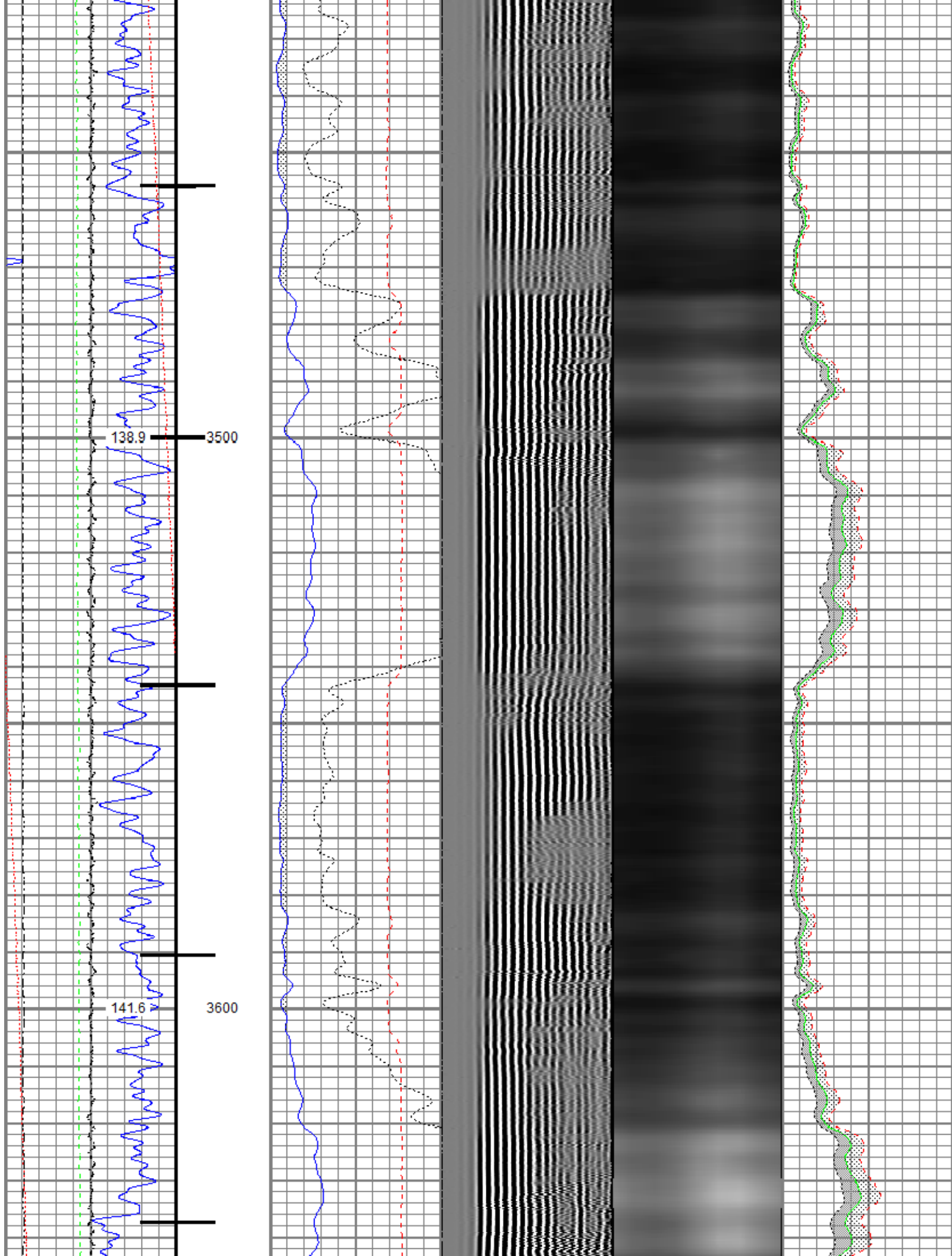


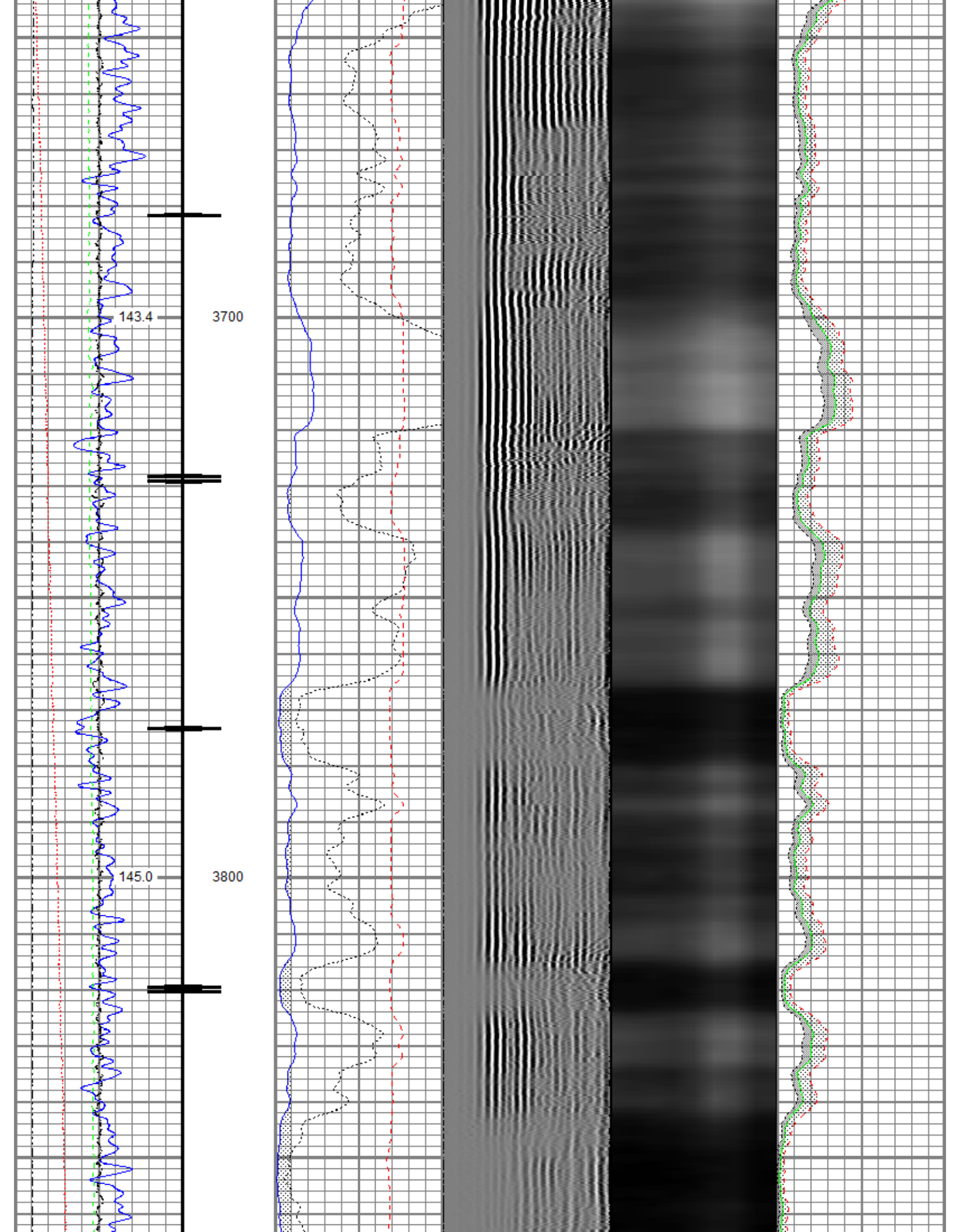


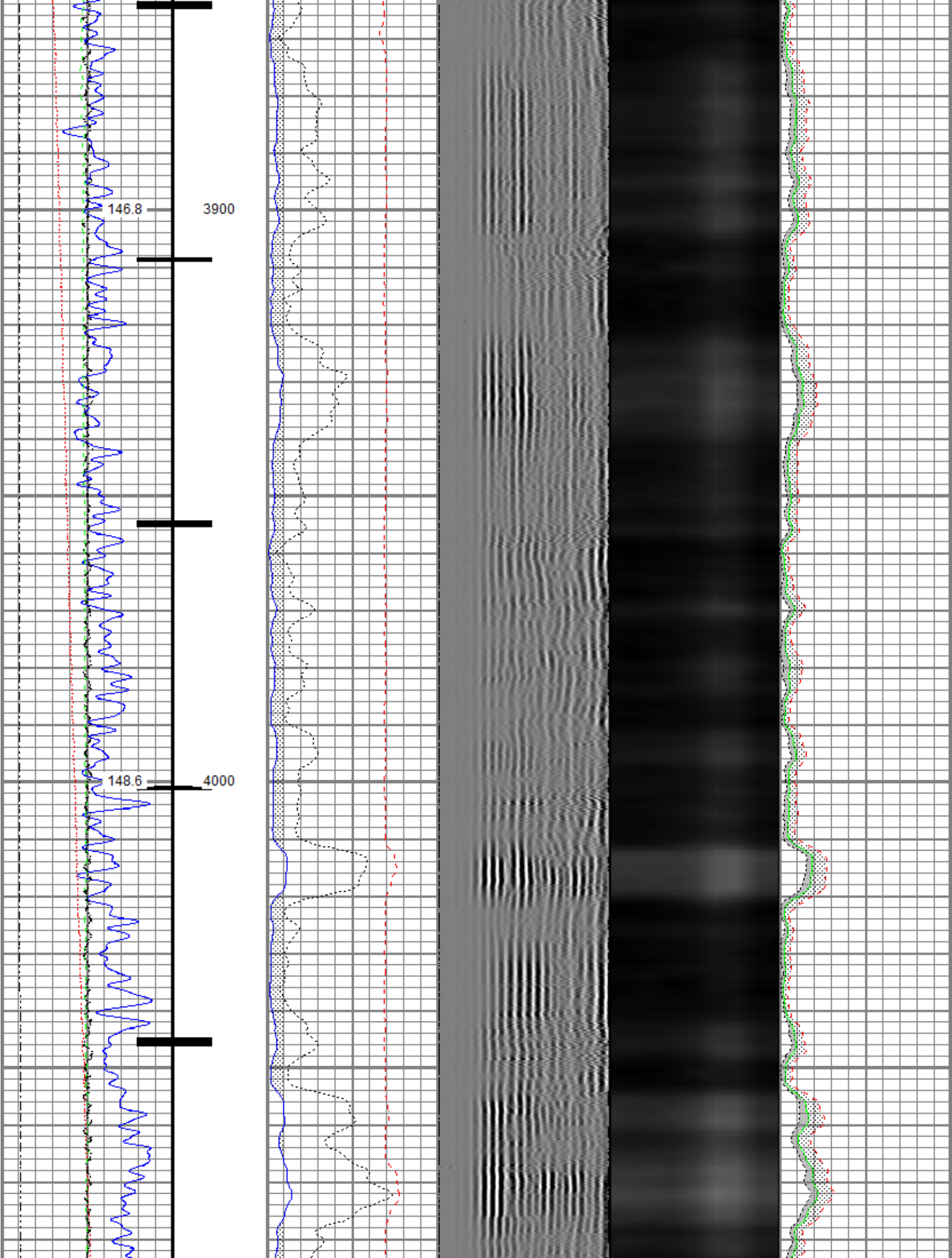


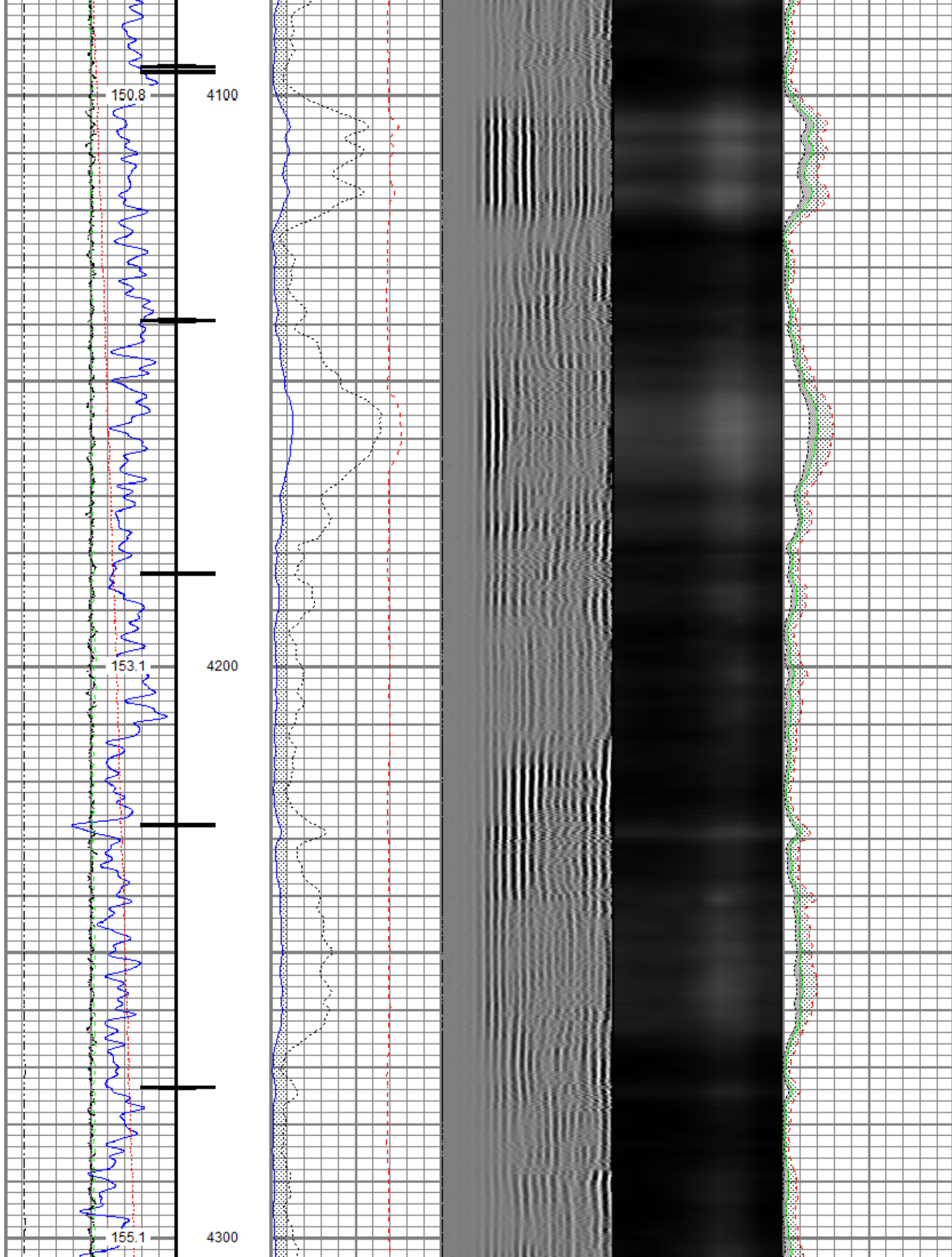


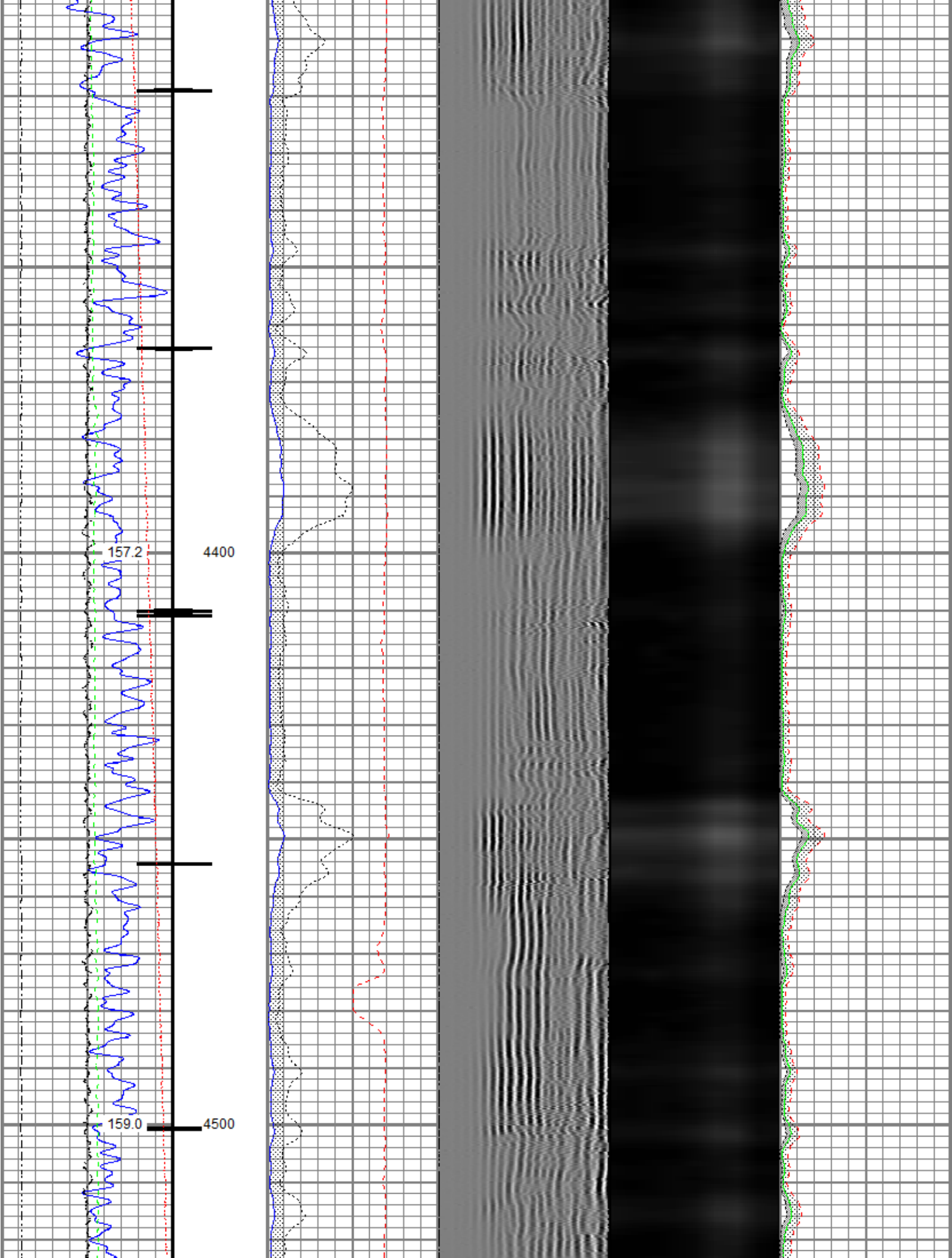


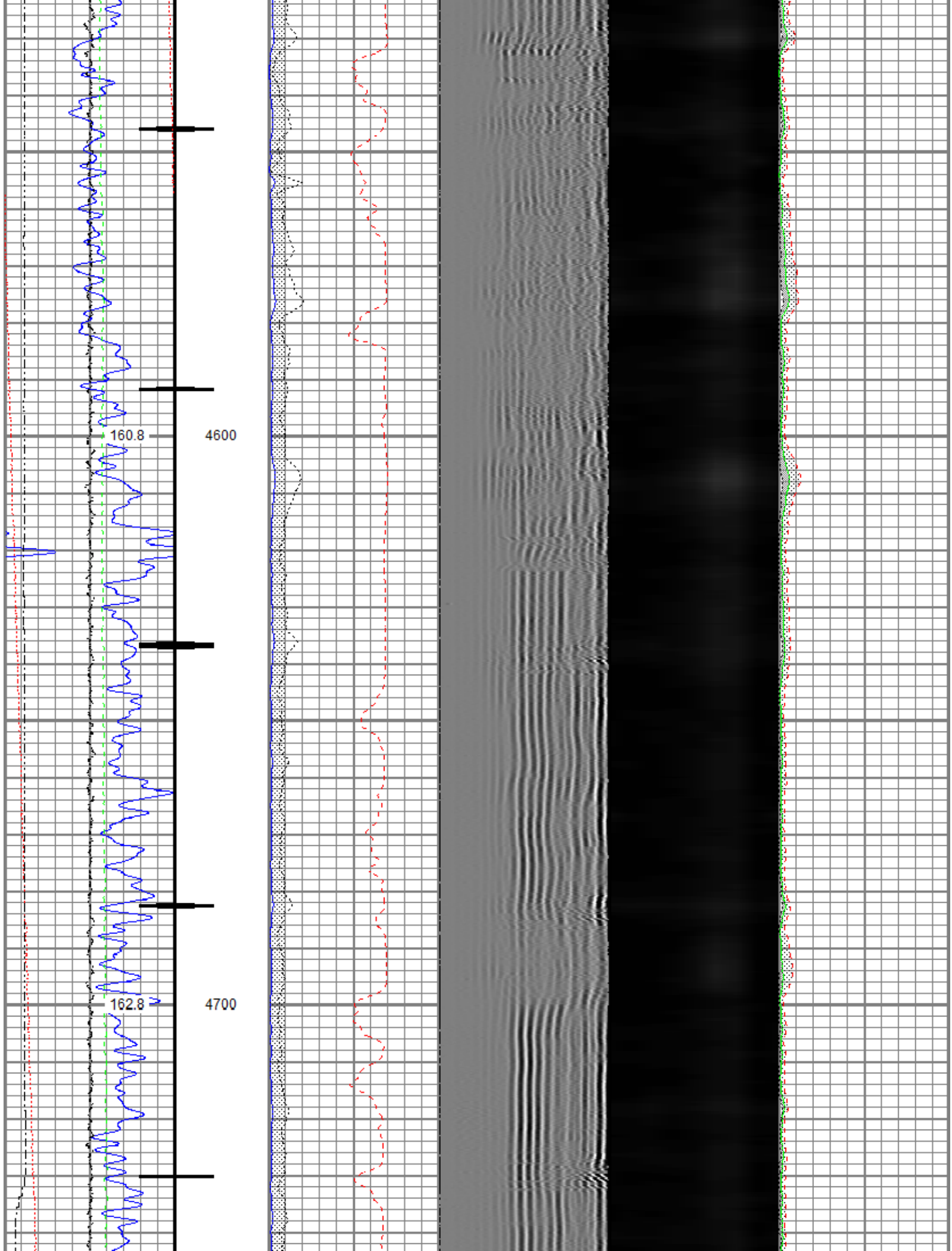


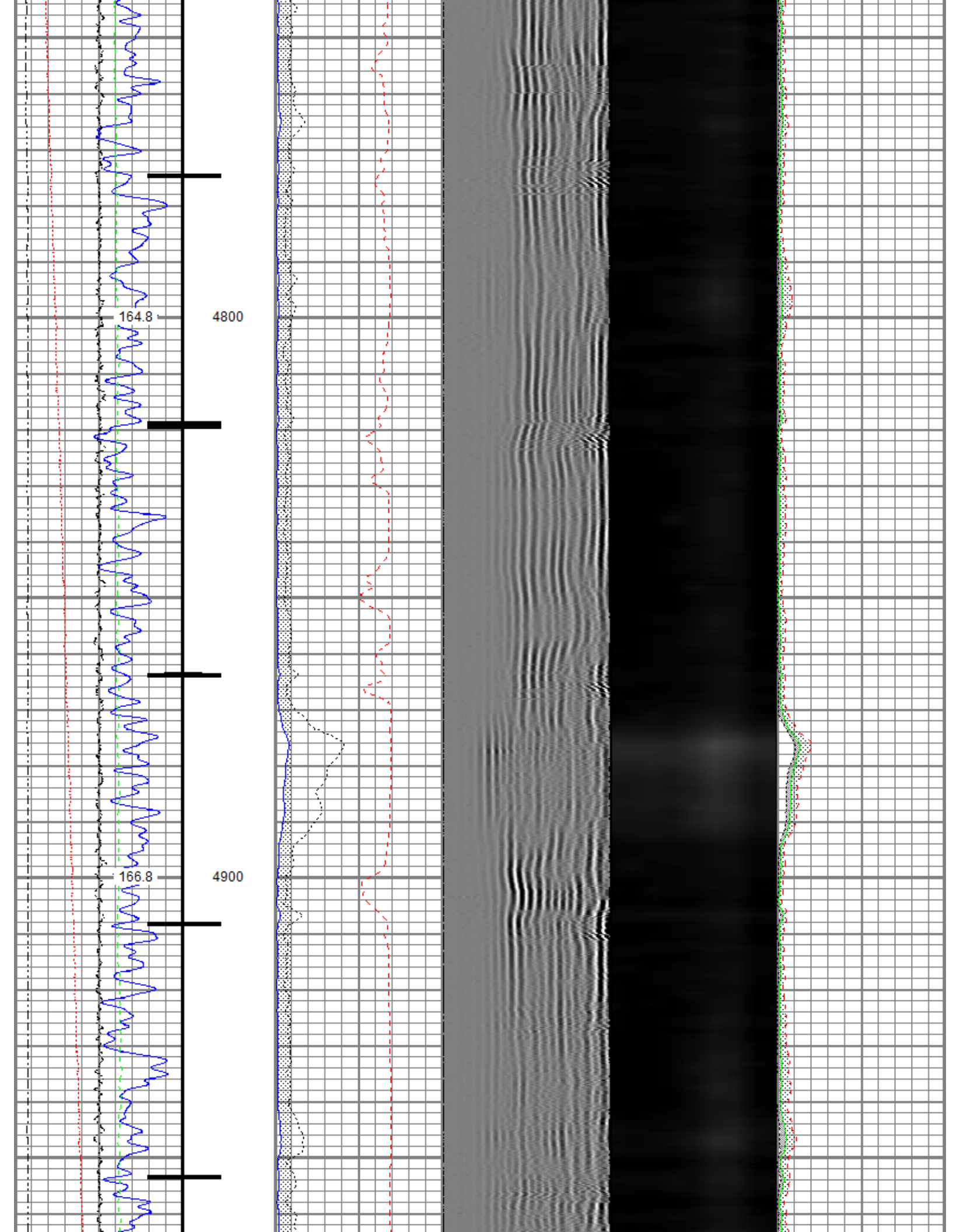


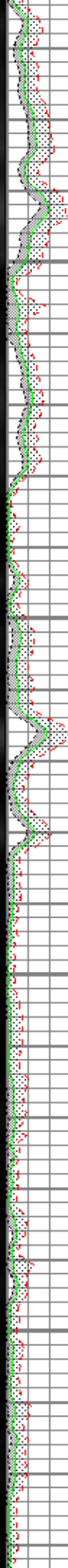
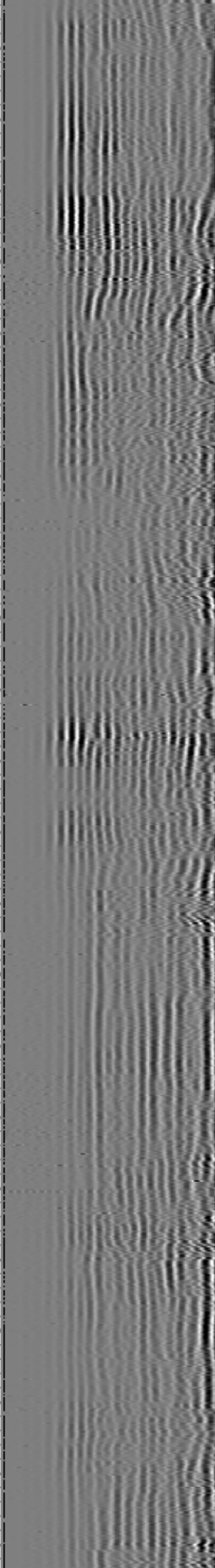
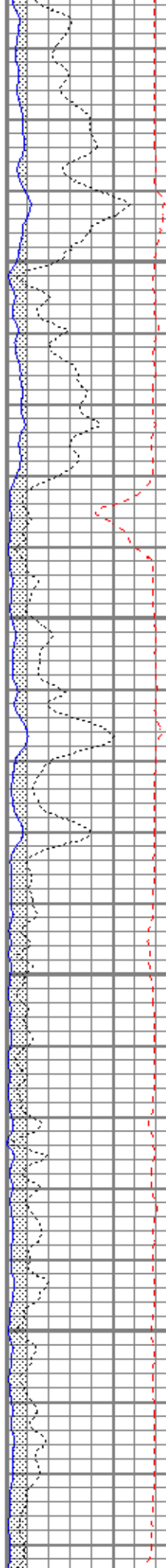
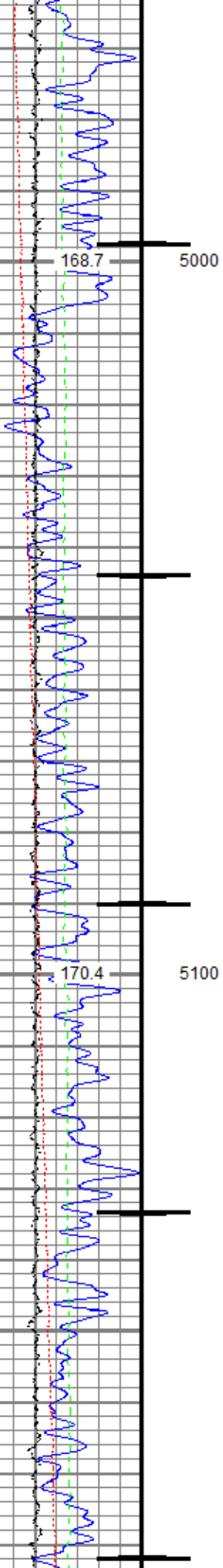


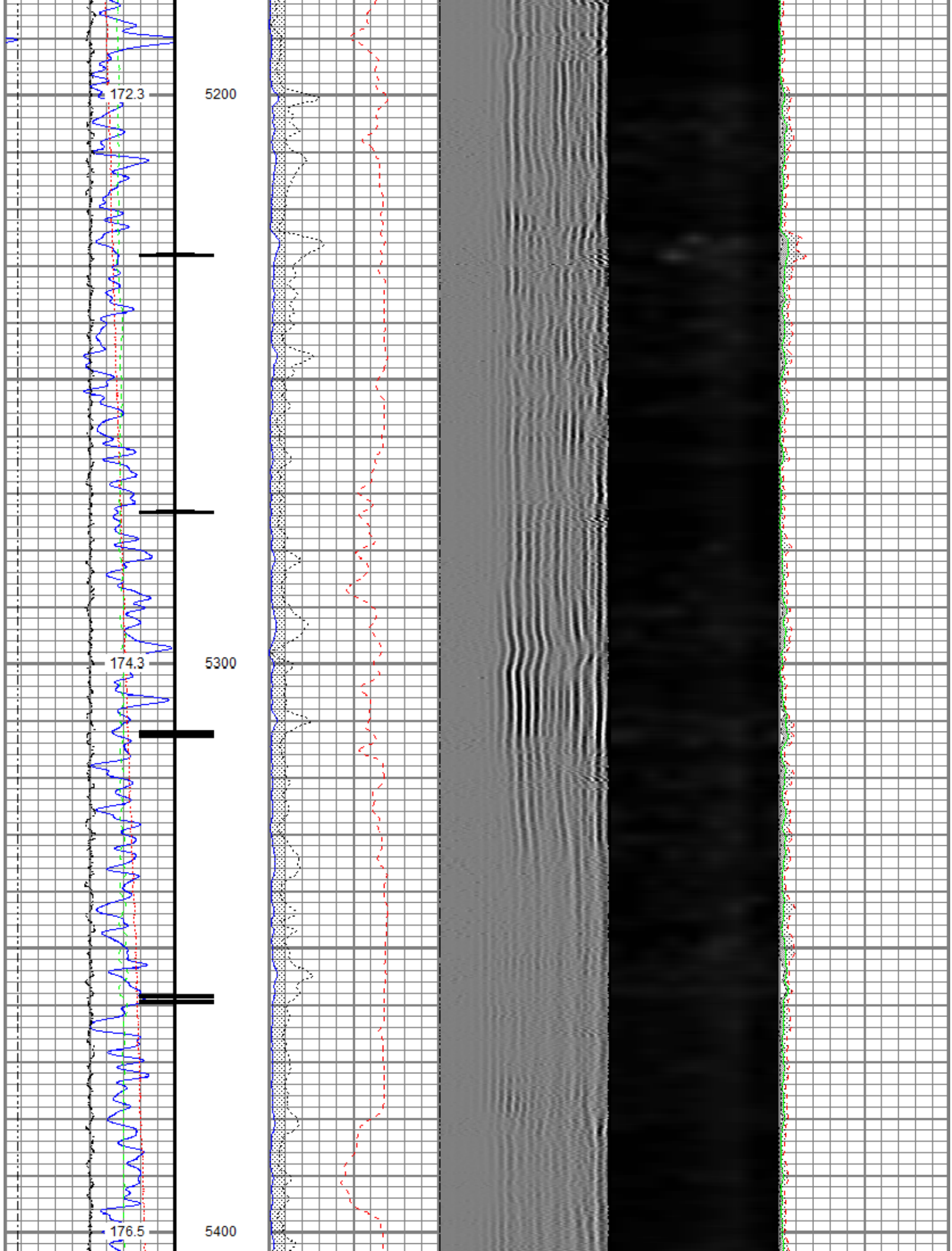


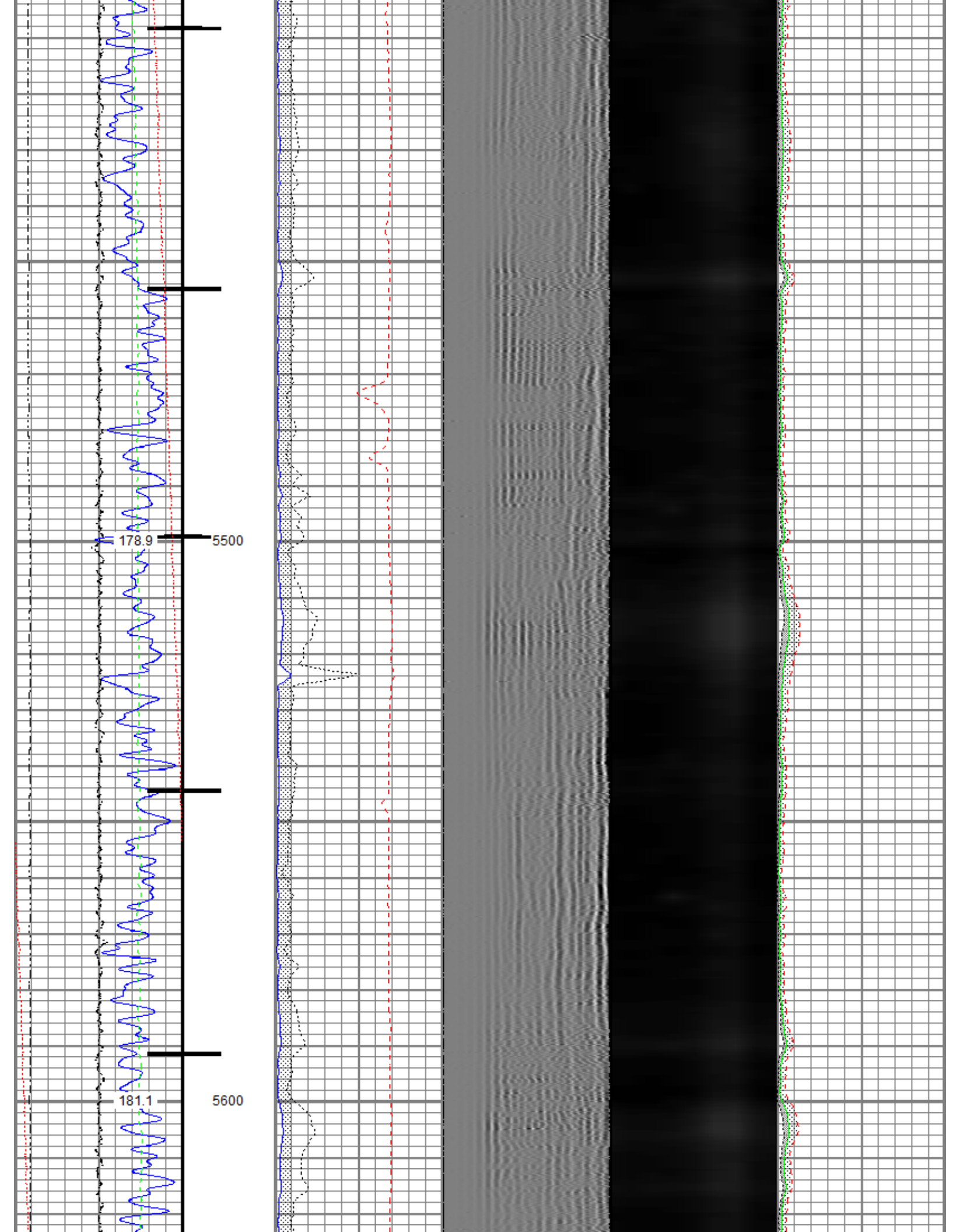


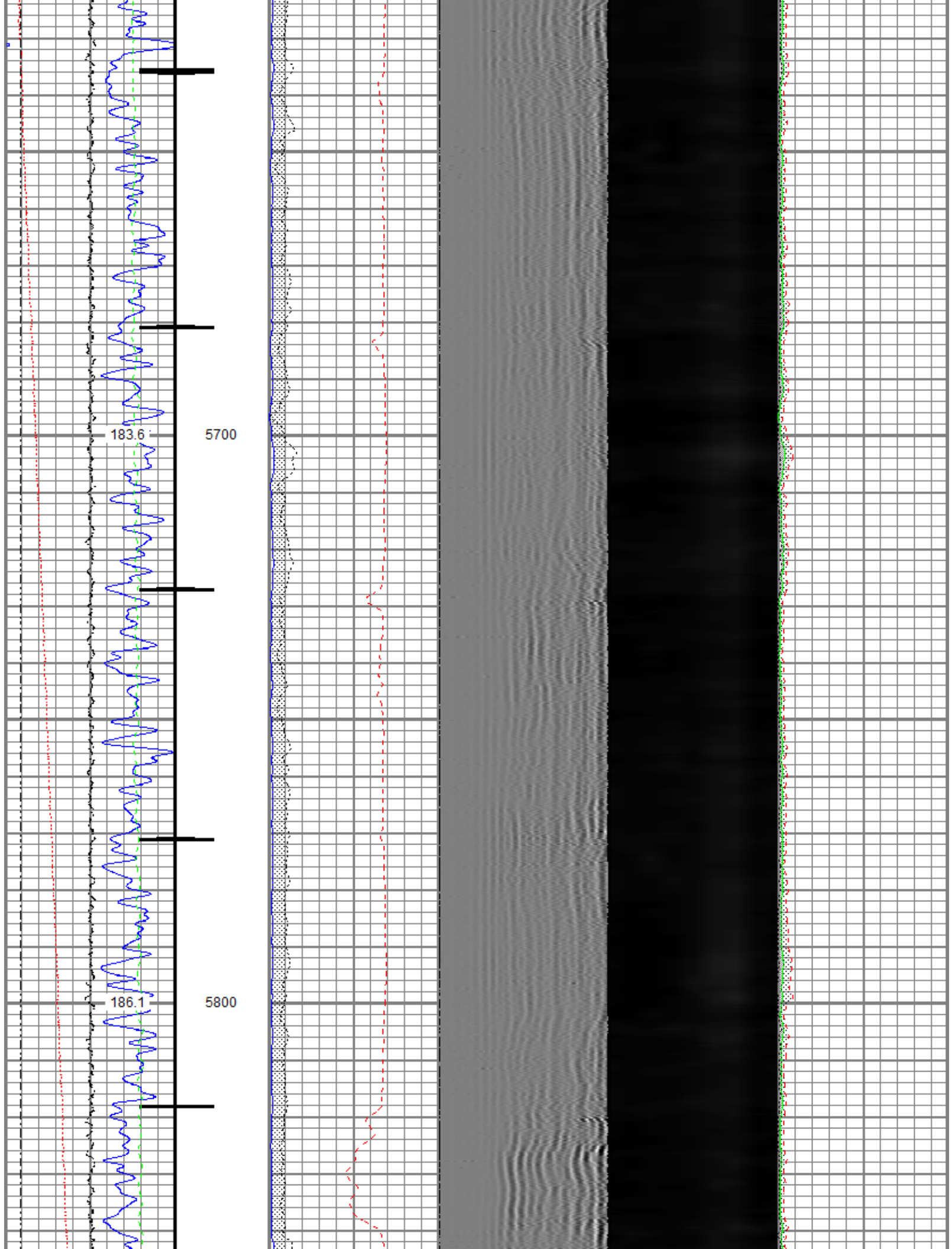


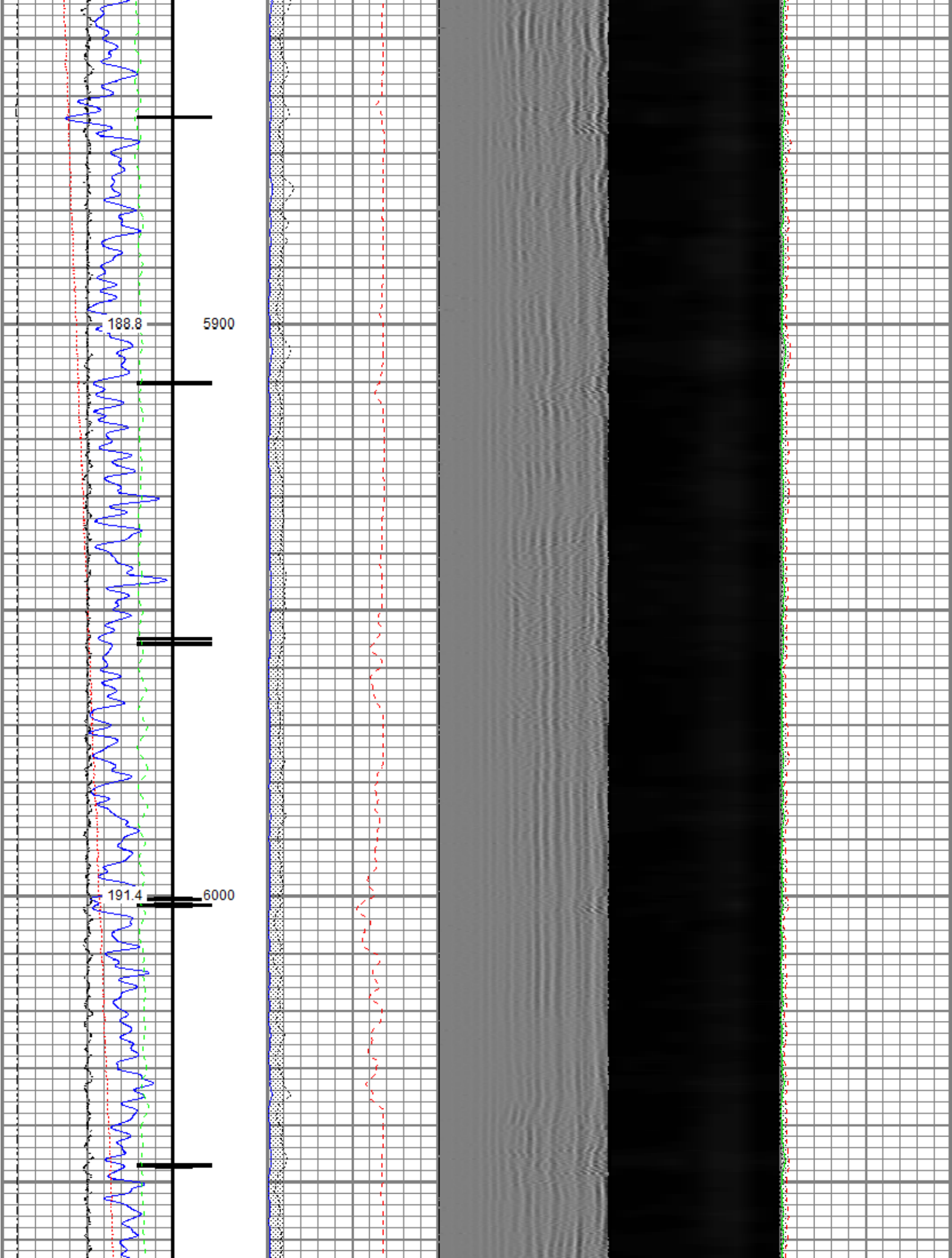


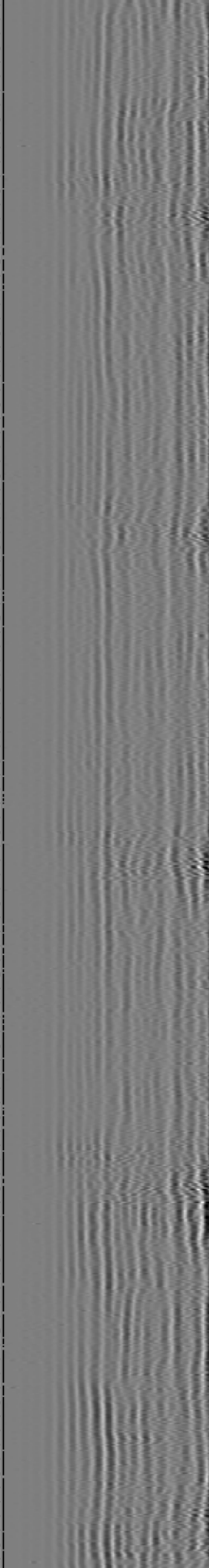
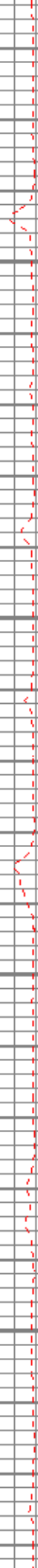
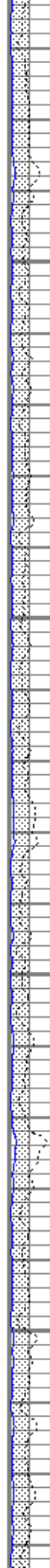
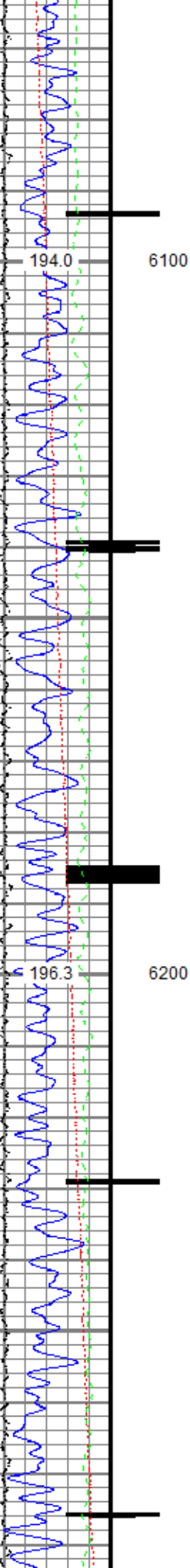


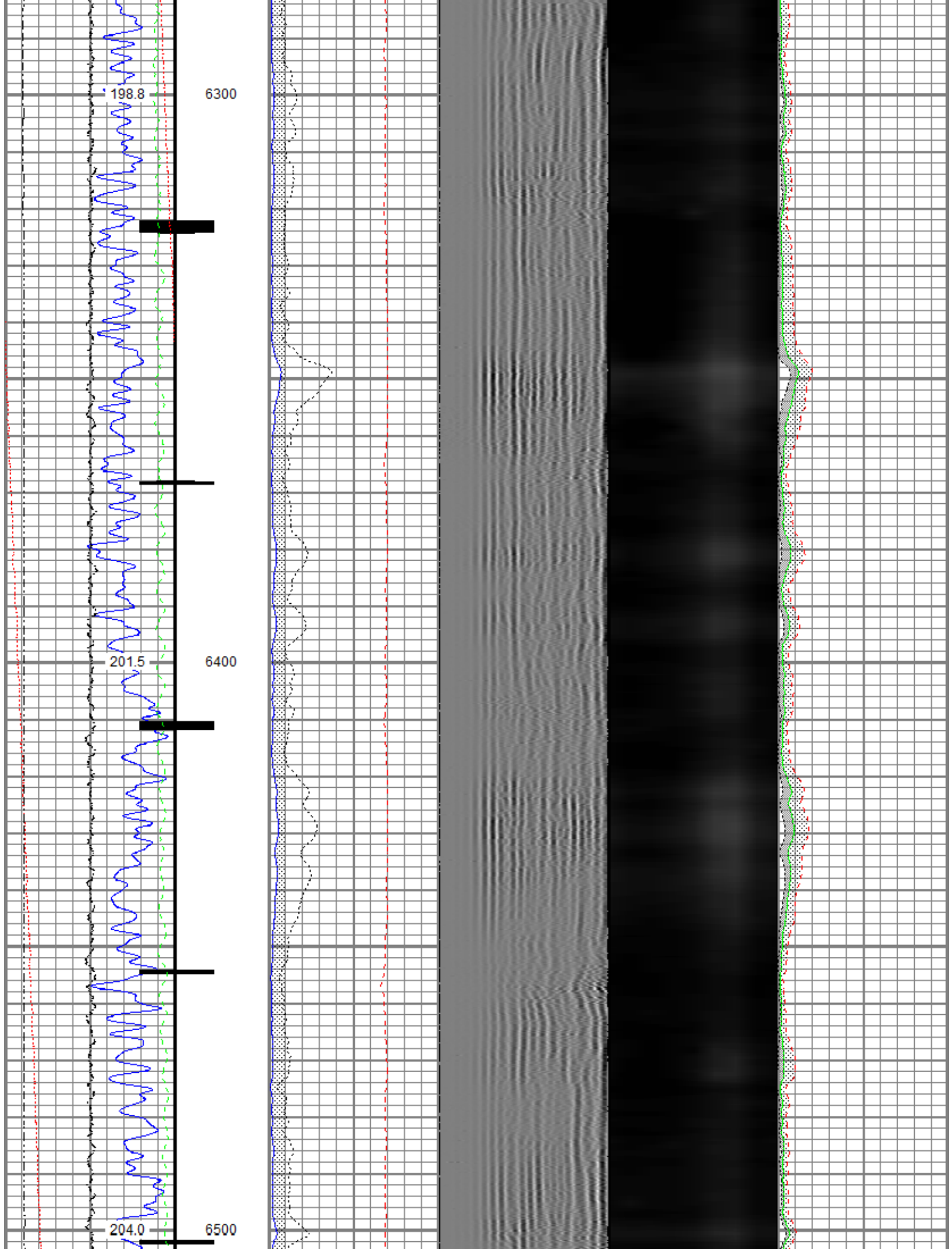


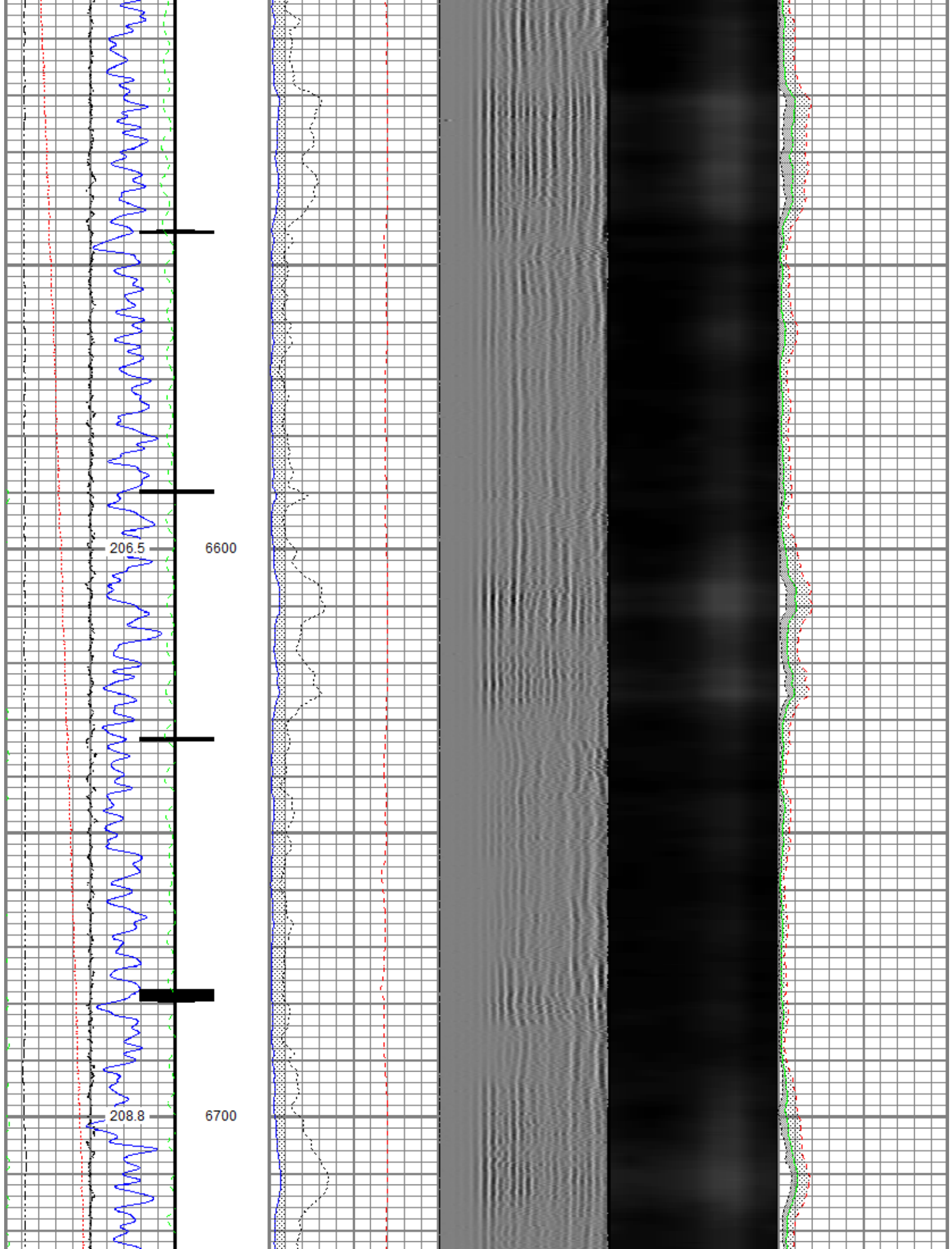


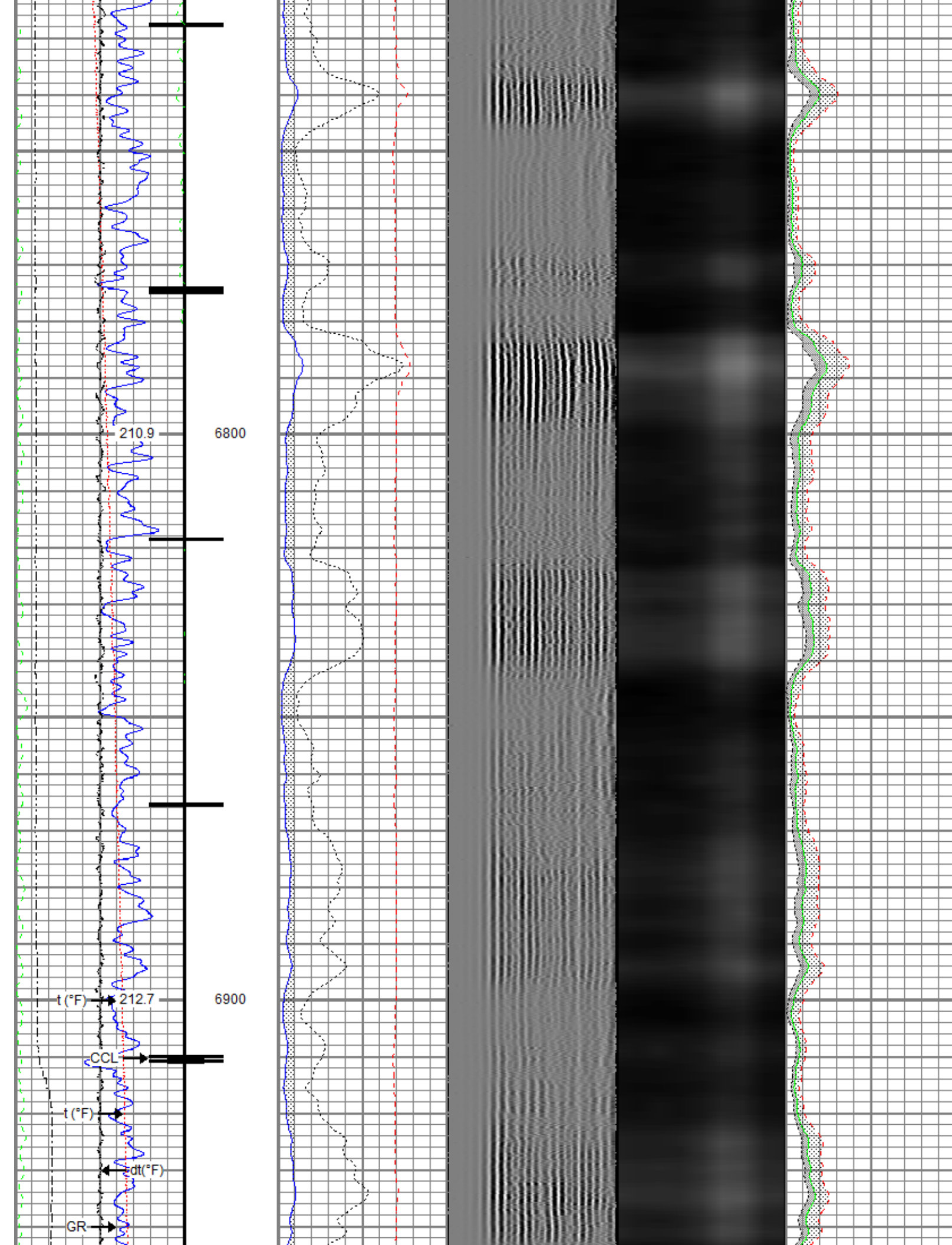


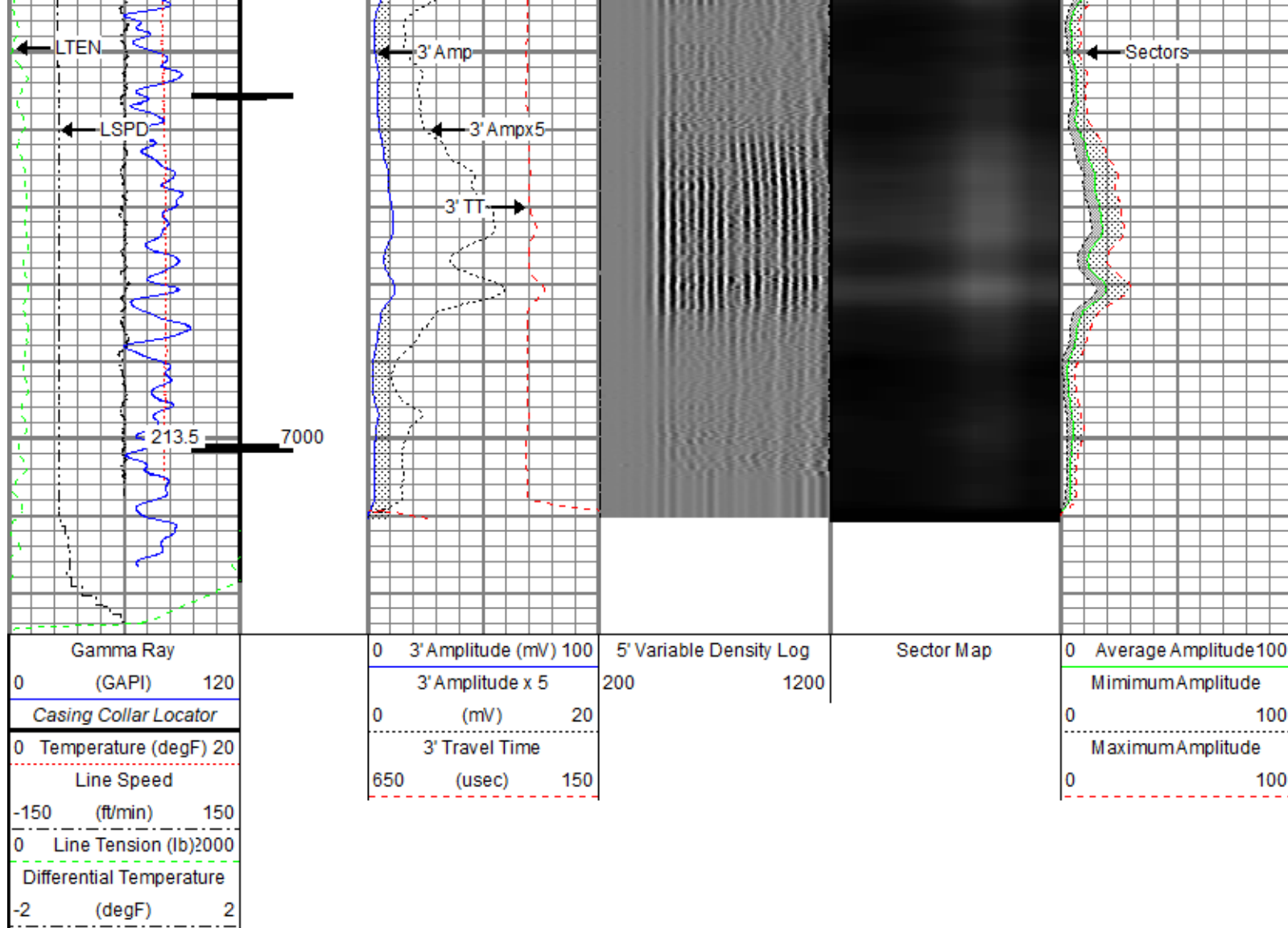








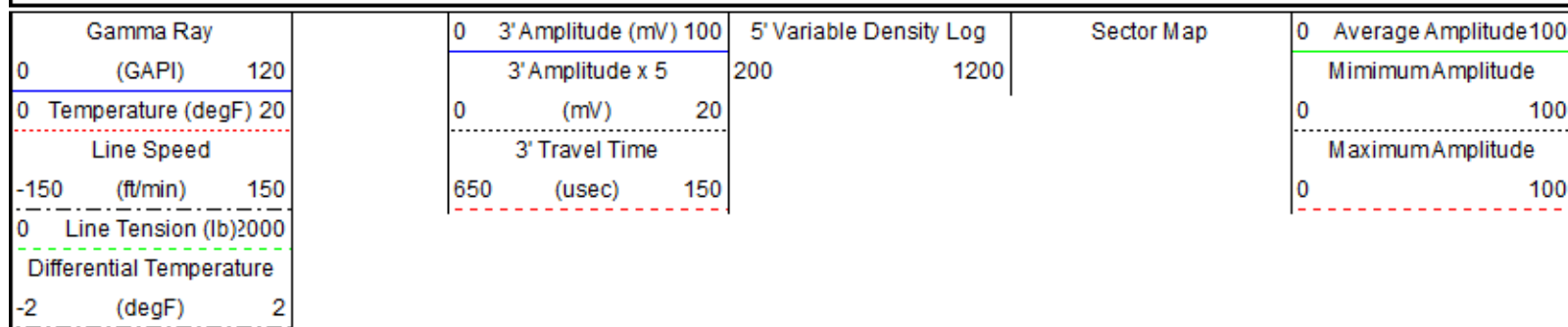




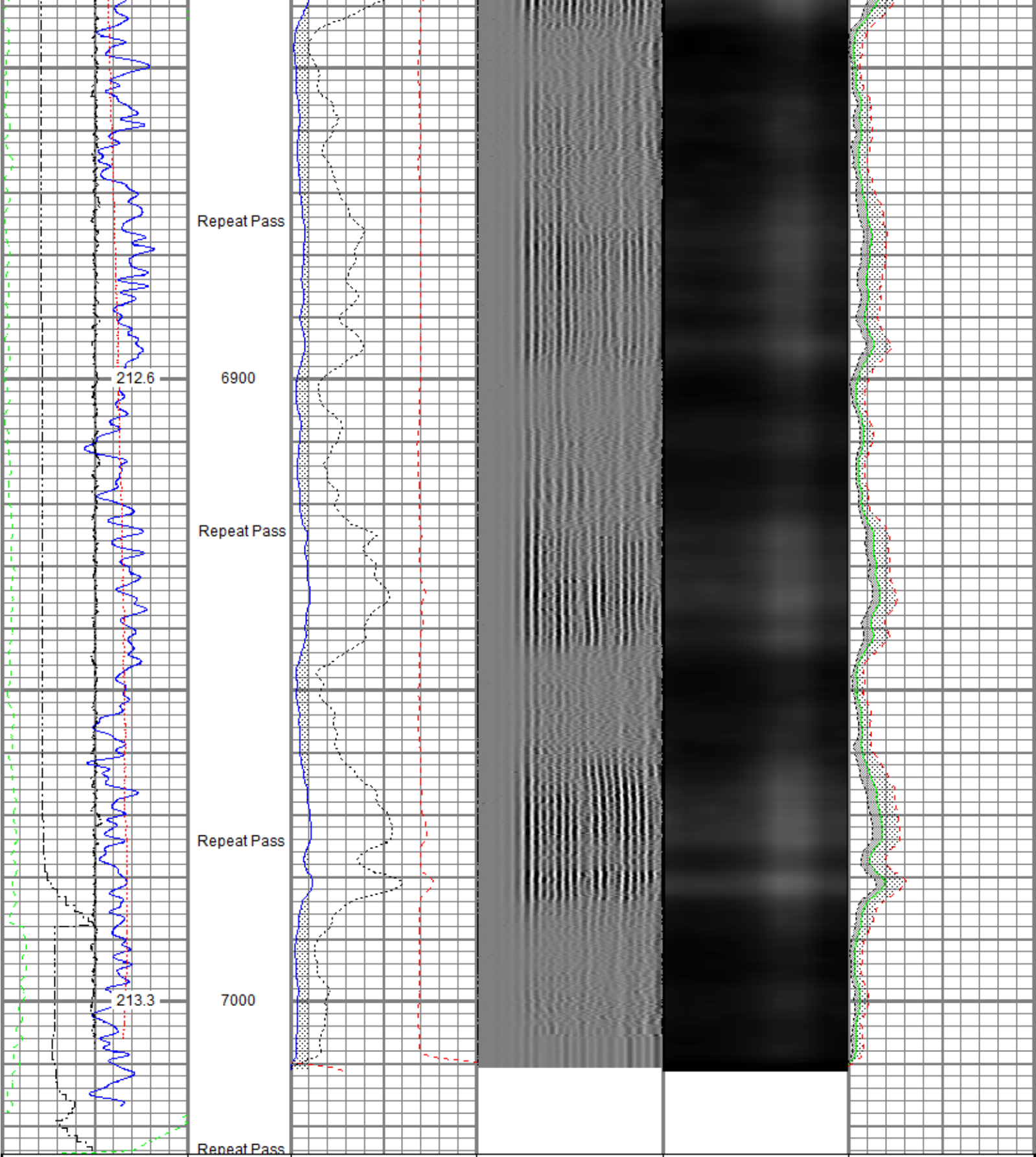
Repeat Pass

Recorded With 2500 PSI Surface Induced Pressure

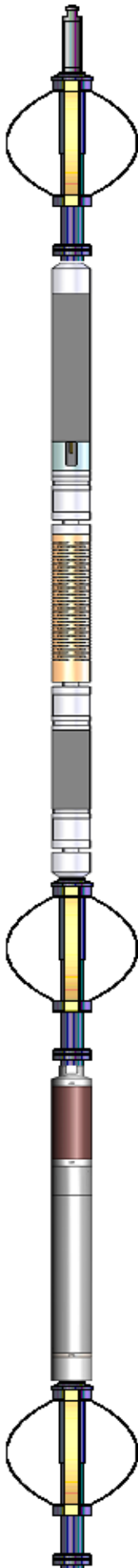
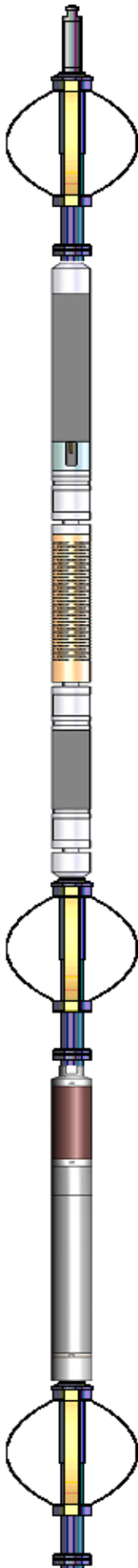
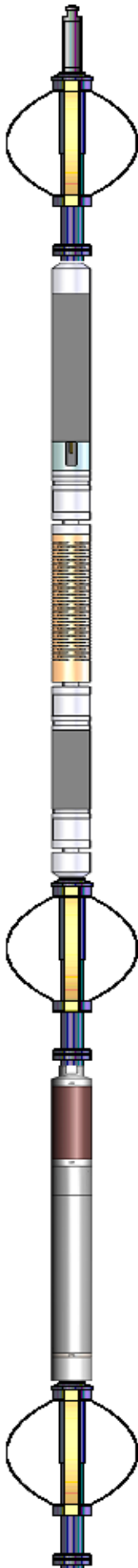
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 Dataset Pathname repeat
 Presentation Format ros_radri
 Dataset Creation Tue Oct 02 08:56:21 2018
 Charted by Depth in Feet scaled 1:240



Repeat Pass



Gamma Ray		0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
0	(GAPI)	120	3' Amplitude x 5	200	1200			Minimum Amplitude	
0	Temperature (degF)	20	(mV)	20			0	100	
Line Speed			3' Travel Time					Maximum Amplitude	
-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	17.04		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 (FW1302-001) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
WVFS8	14.81					
WVFS7	14.81					
WVFS6	14.81					
WVFS5	14.81					
WVFS4	14.81					
WVFS3	14.81					
WVFS2	14.81					
WVFS1	14.81					
WVFCAL	14.81					
WVF3FT	14.81					
WVF5FT	13.81					
HEADVOLT	10.56					
CCL\$2	6.80		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
CCL\$1	6.80					
GR	5.46		Probe GR-CCL-2750 6PB (101001) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00
						
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00

Dataset: PROCESSED_SRC Energy_Troudt 41N-23C-M_RBL_10-02-18.db: field/well/run1/main
Total length: 23.86 ft
Total weight: 223.60 lb

Total Weight: 225.00 lb
O.D.: 2.75 in

Calibration Report

Database File C:\ProgramData\Warrior\Data\SRC Energy_Troudt 41N-23C-M_RBL_10-02-18\PROCESSED_SRC Energy_Troudt 41N-23C-M_1
Dataset Pathname main
Dataset Creation Tue Oct 02 09:02:29 2018

Gamma Ray Calibration Report

Serial Number: 101001
Tool Model: 2750 6PB
Performed: Mon Jun 18 10:09:36 2018

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 RBT

Calibration Casing Diameter: 5.500 in
Calibration Depth: -25.000 ft

Master Calibration, performed Tue Oct 02 08:20:20 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.014	0.778	0.800	71.921	93.026	-0.496
CAL	0.724	0.717				
5'	0.015	0.758	0.800	71.921	95.657	-0.633
SUM						
S1	0.014	0.771	0.000	100.000	132.081	-1.865
S2	0.015	0.774	0.000	100.000	131.646	-1.933
S3	0.012	0.770	0.000	100.000	132.007	-1.618
S4	0.013	0.770	0.000	100.000	132.020	-1.716
S5	0.013	0.792	0.000	100.000	128.391	-1.710
S6	0.015	0.831	0.000	100.000	122.547	-1.852
S7	0.014	0.830	0.000	100.000	122.572	-1.745
S8	0.015	0.814	0.000	100.000	125.090	-1.822

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.724	0.717	1.000	0.000

Air Zero Calibration, performed Tue Oct 02 08:19:57 2018:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	

S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number: FW1302-001
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:24:58 2017

	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 SRC Energy Inc
Well Troudt 41N-23C-M
Field Wattenberg
County Weld
State Colorado