



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company SRC Energy Inc		Well Boomerang 33N-6C-M		Field Wattenberg		County Weld		State Colorado	
Location:		API # : 05-123-45393		Other Services		JB/GR		RBP	
SEC 5		TWP 5N		RGE 66W		Pull RBP			
Permanent Datum		Ground Level		Elevation		4770'			
Log Measured From		Ground Level							
Drilling Measured From		Kelly Bushing		20 FT					
Date		19-APR-2018							
Run Number		Three							
Depth Driller		15606 FT (GL)							
Depth Logger		6400 FT							
Bottom Logged Interval		6386 FT							
Top Log Interval		Surface							
Open Hole Size		8.5"							
Type Fluid		Water							
Density / Viscosity		8.34 lb/gal							
Max. Recorded Temp.		212°F							
Estimated Cement Top		See Log							
Time Well Ready		ROA							
Time Logger on Bottom		13:40							
Equipment Number		HD-325							
Location		Fort Lupton, CO							
Recorded By		R. Emmerling							
Witnessed By		Kelly Wieser							
J. Fresquez									
Borehole Record		Tubing Record							
Run Number		Bit		From		To		Size	
								Weight	
								From	
								To	
Casing Record		Size (in)		Wgt (lbs/ft)		Grade		Top	
Surface Casing		---		---		---		---	
Intermediate #1		5 1/2		20		HCP-110		Surface	
Intermediate #2								15591.11 FT	
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
Adjusted + 9 FT to correlate with Ground Level
Log ran from approximately 50 FT Above RBP to Surface
Casing Tally reported Marker Joint at 6352.59 FT not logged due to RBP set depth
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!!

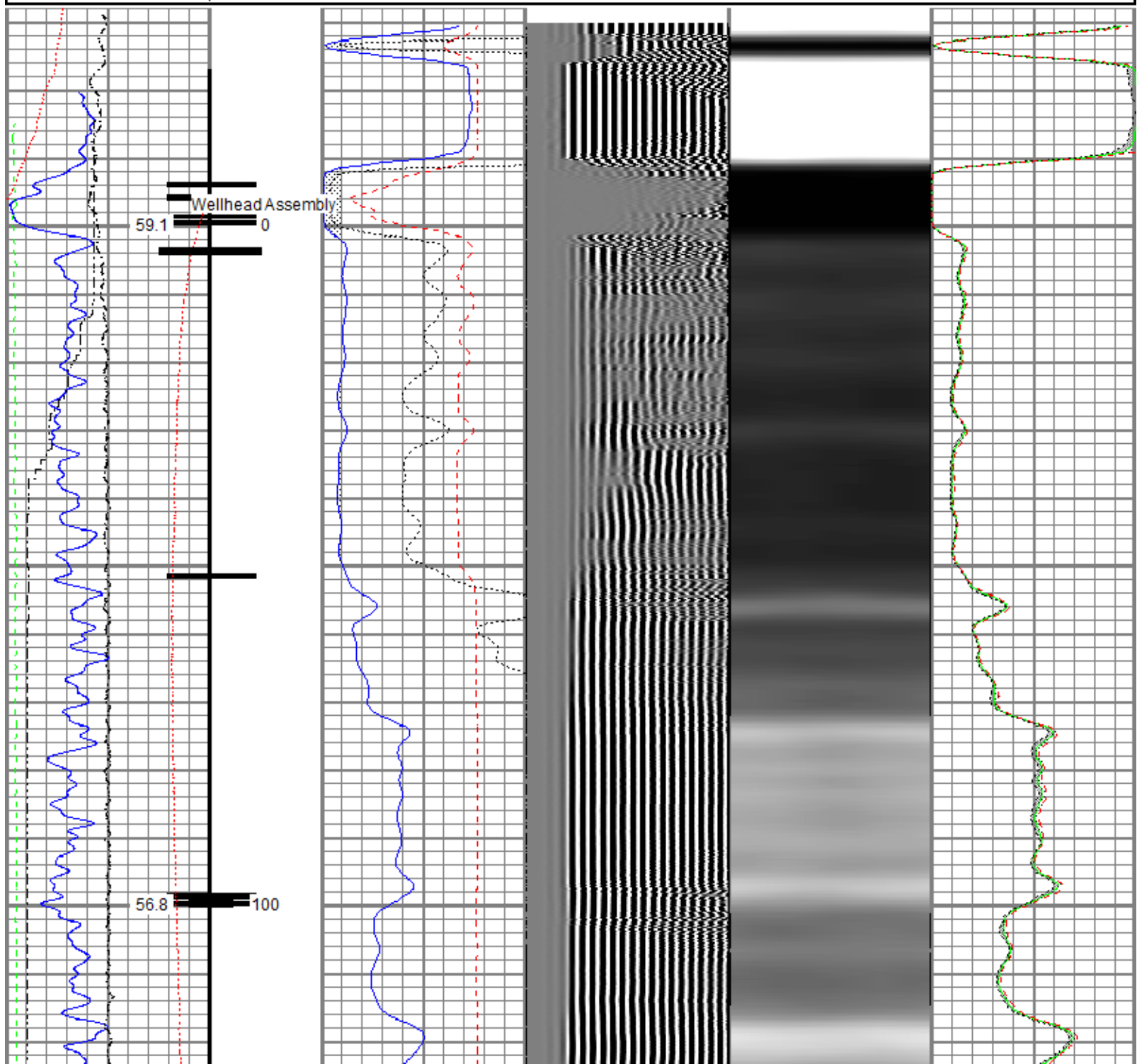


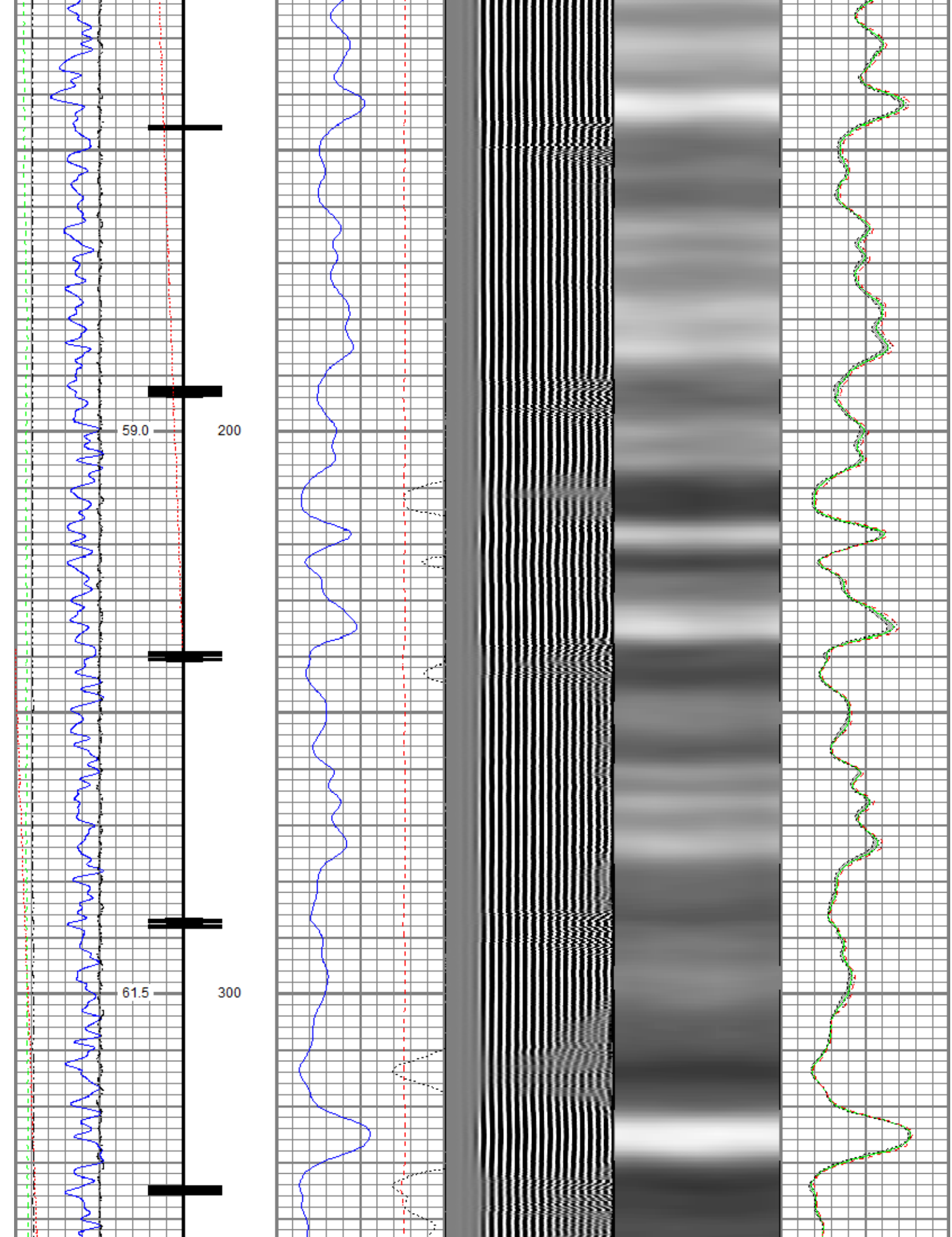
Main Pass

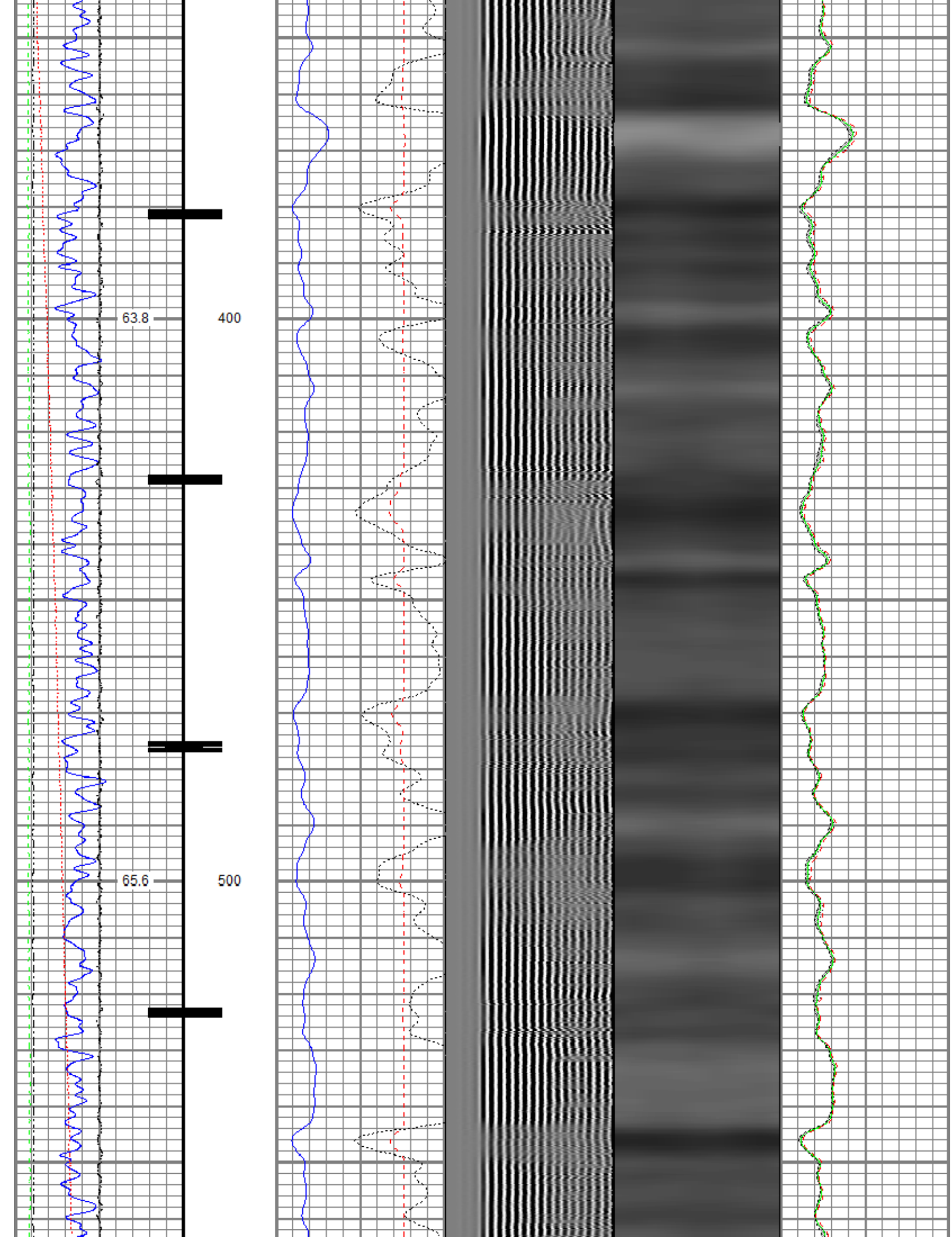
Recorded With 2500 PSI Surface Induced Pressure

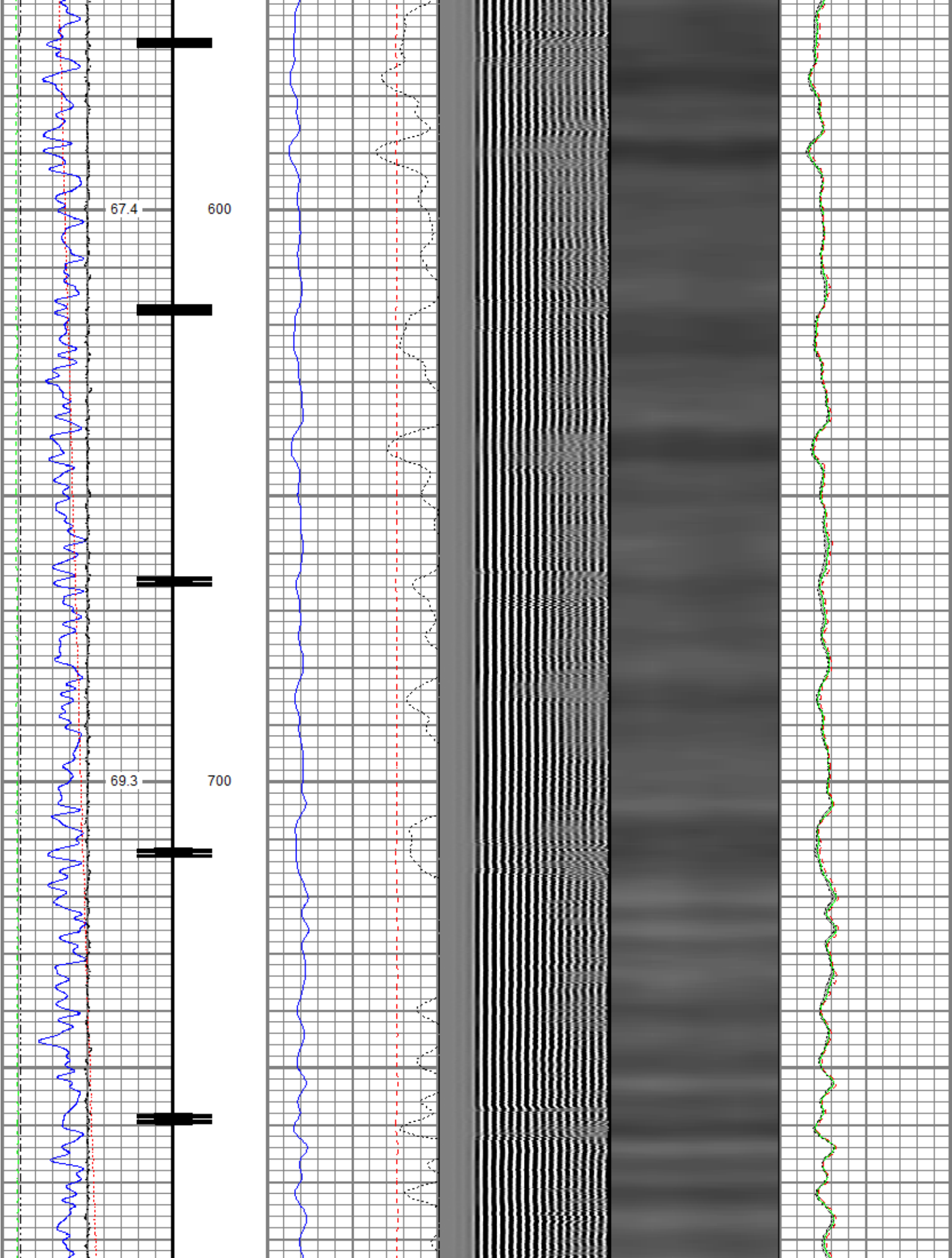
Database File src\boomerang 33n-6c-misc energy_boomerang 33n-6c-m_rbl_04-19-18.db
 Dataset Pathname well_8/RBL/pass4
 Presentation Format ros_radri
 Dataset Creation Thu Apr 19 13:39:20 2018
 Charted by Depth in Feet scaled 1:240

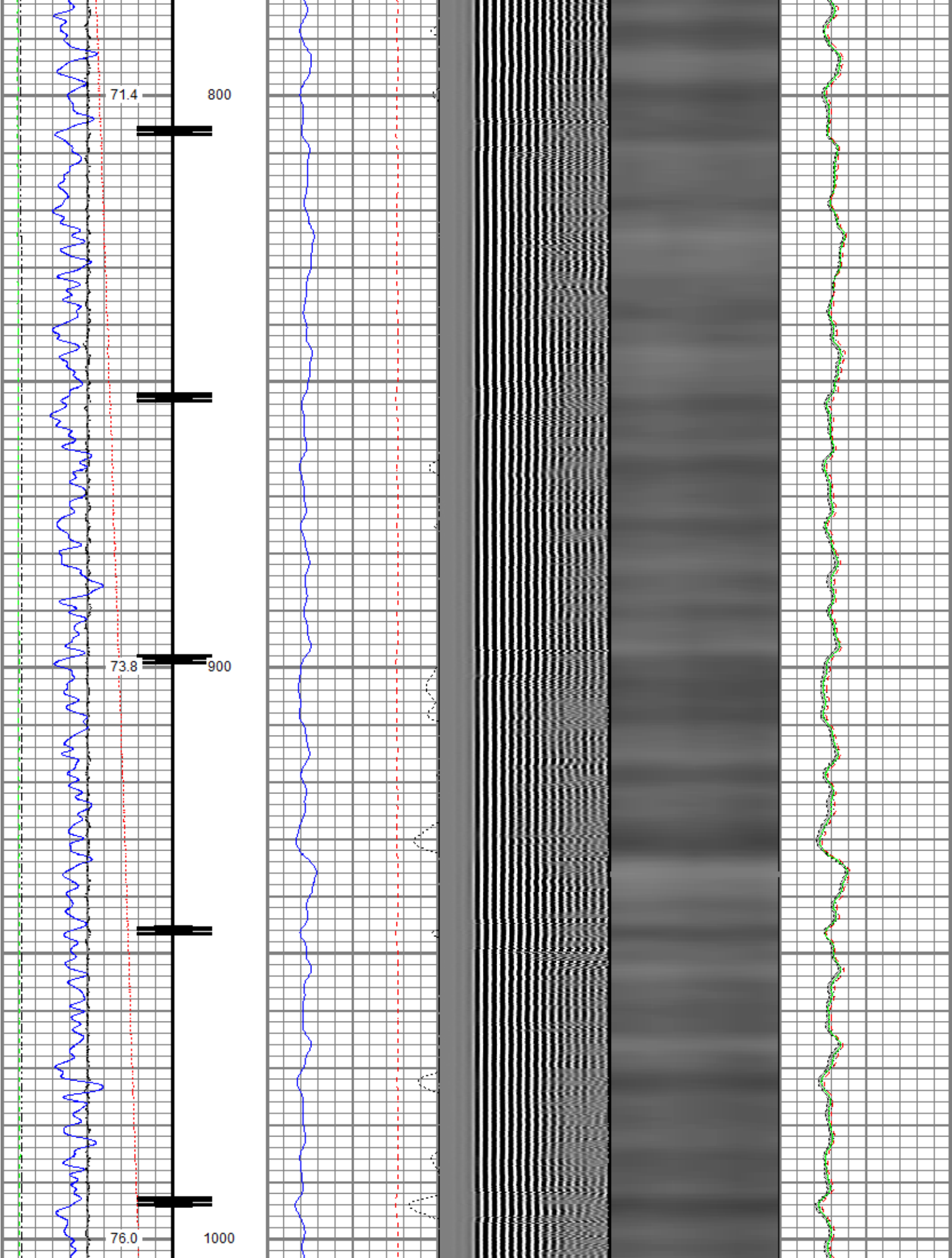
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150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

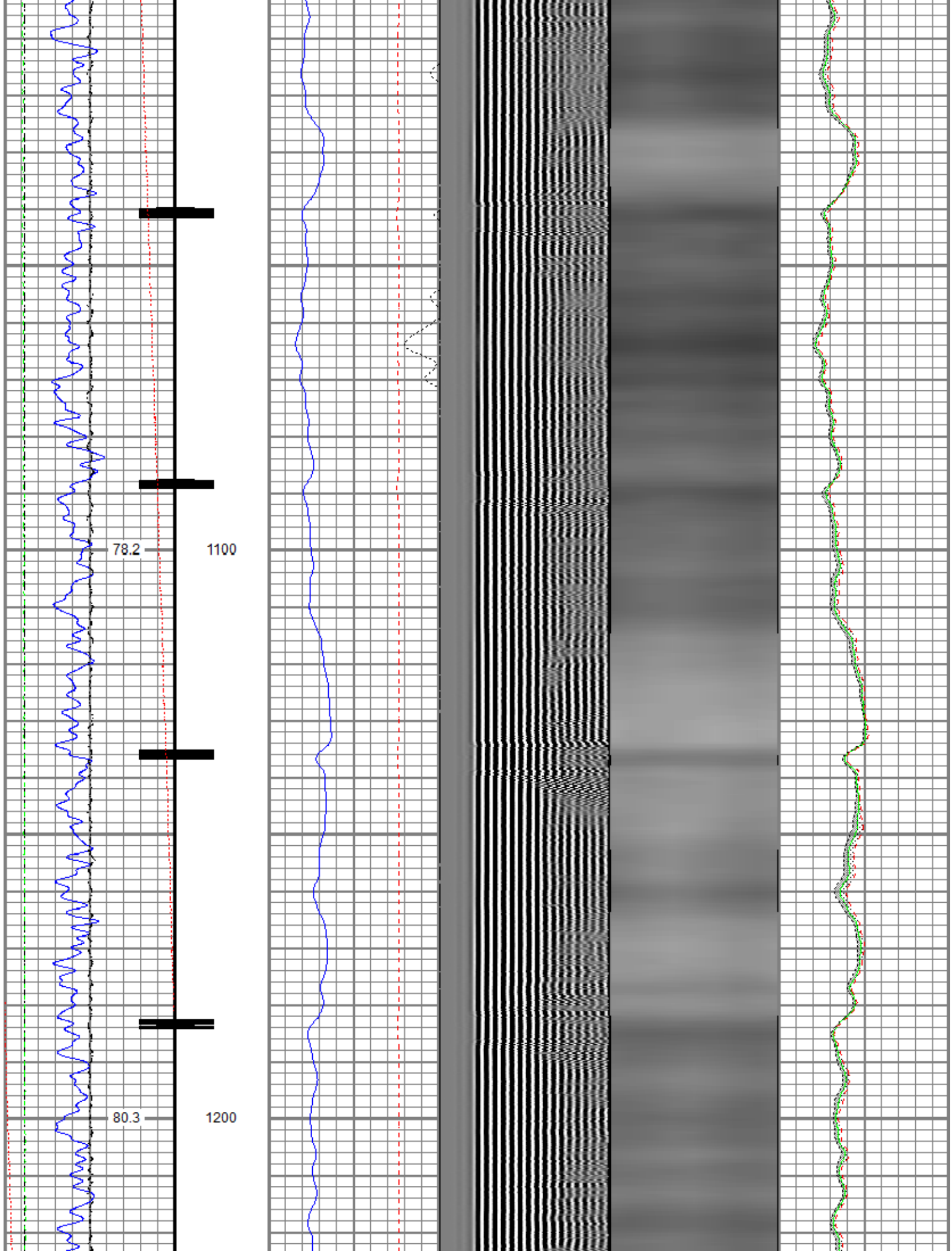


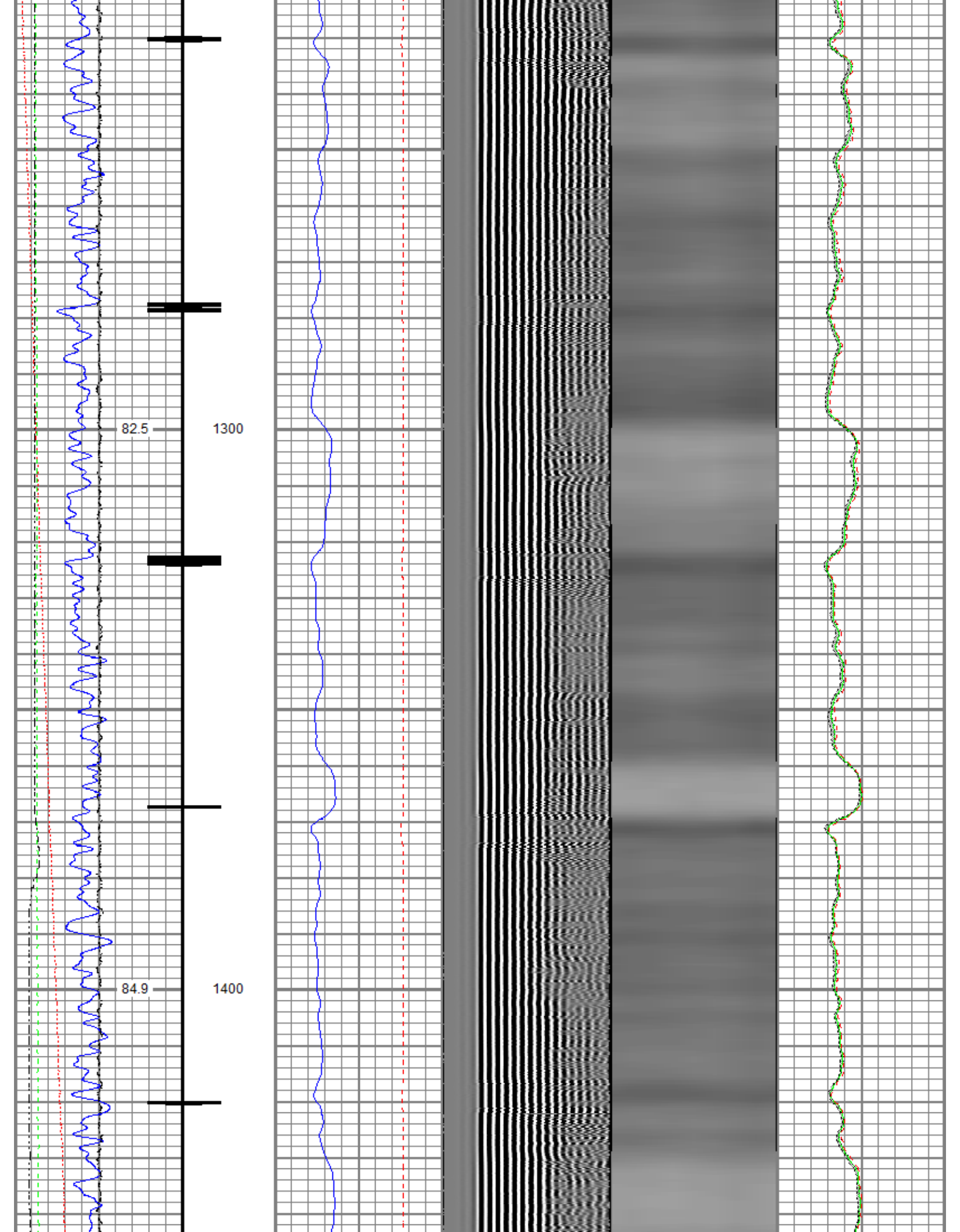


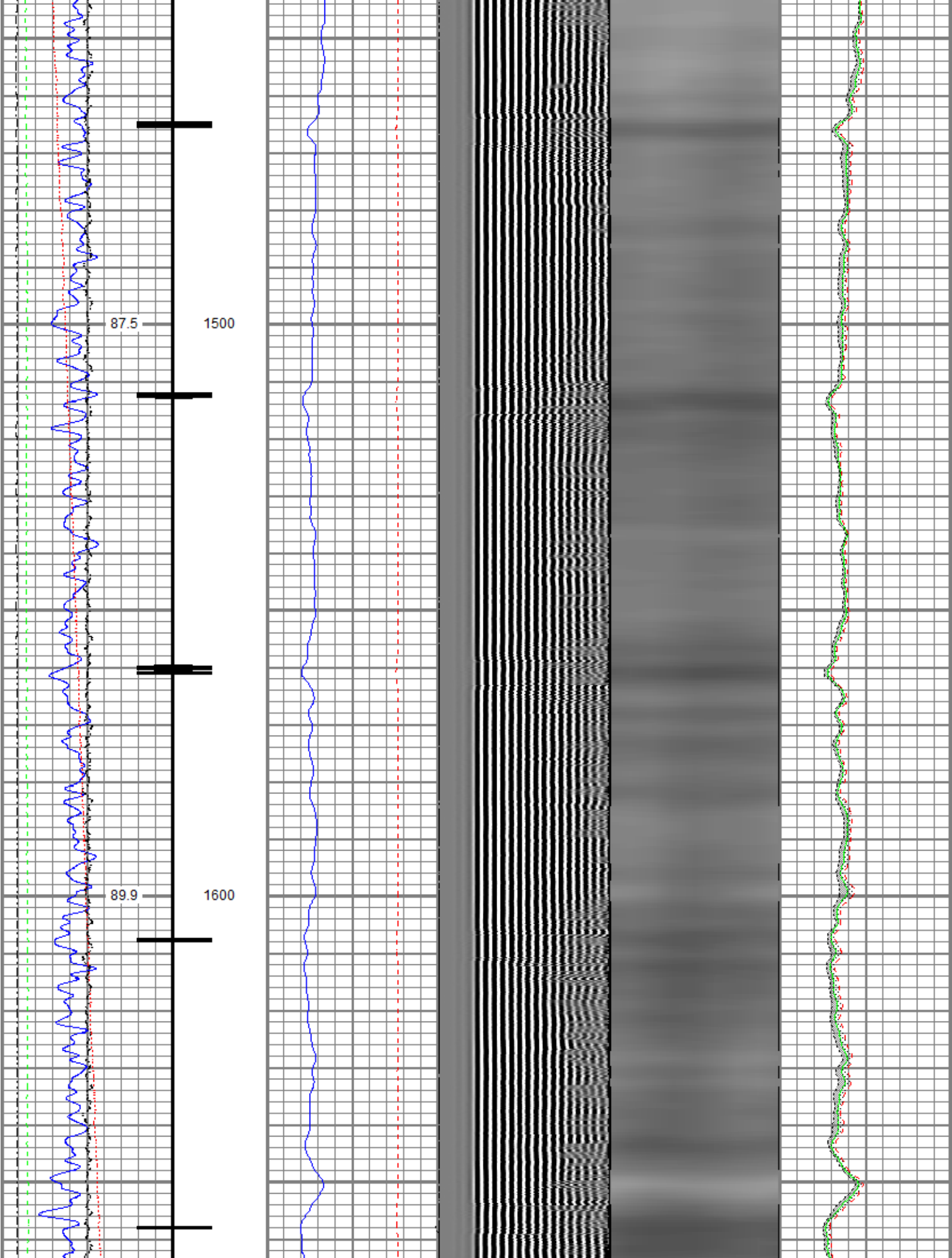


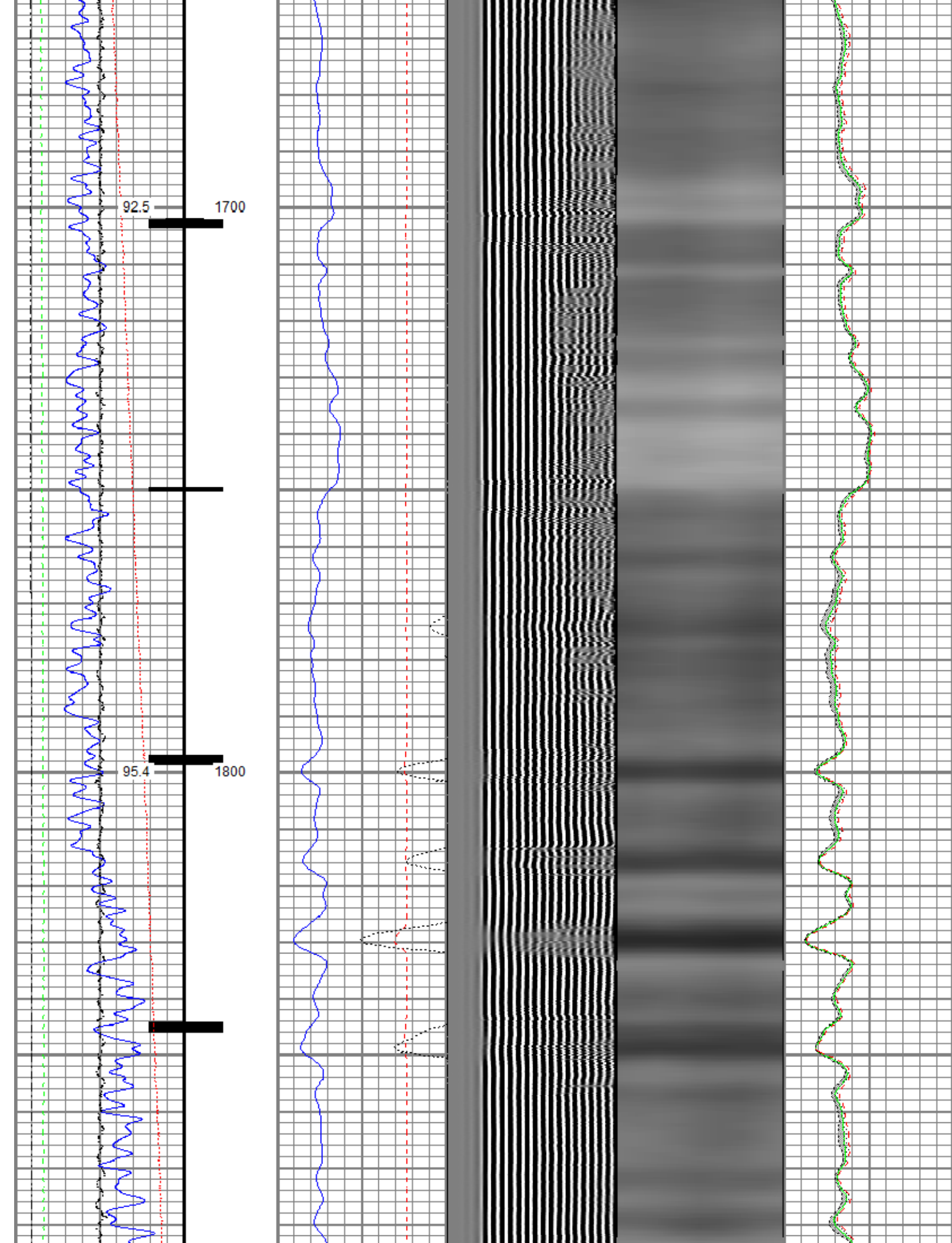


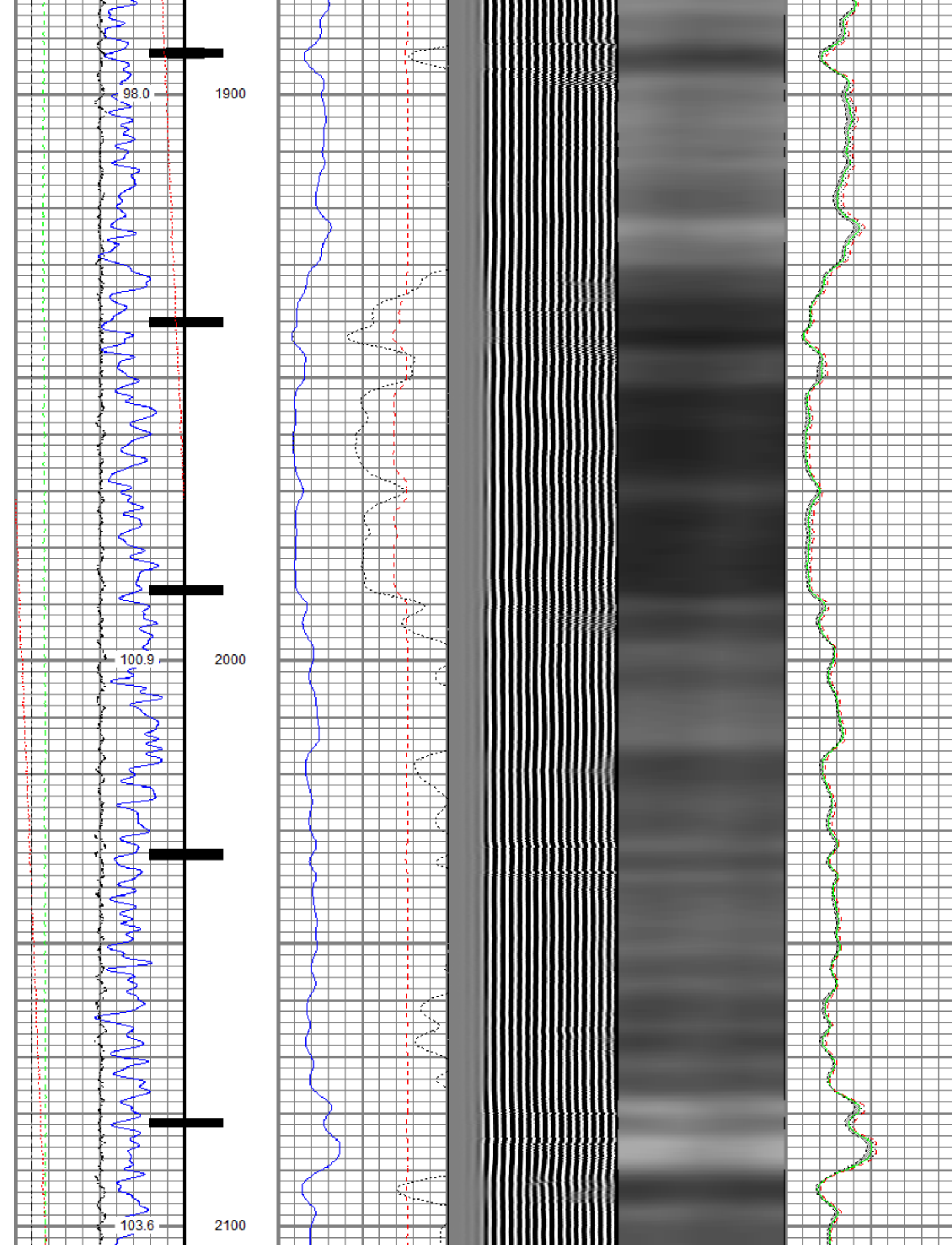


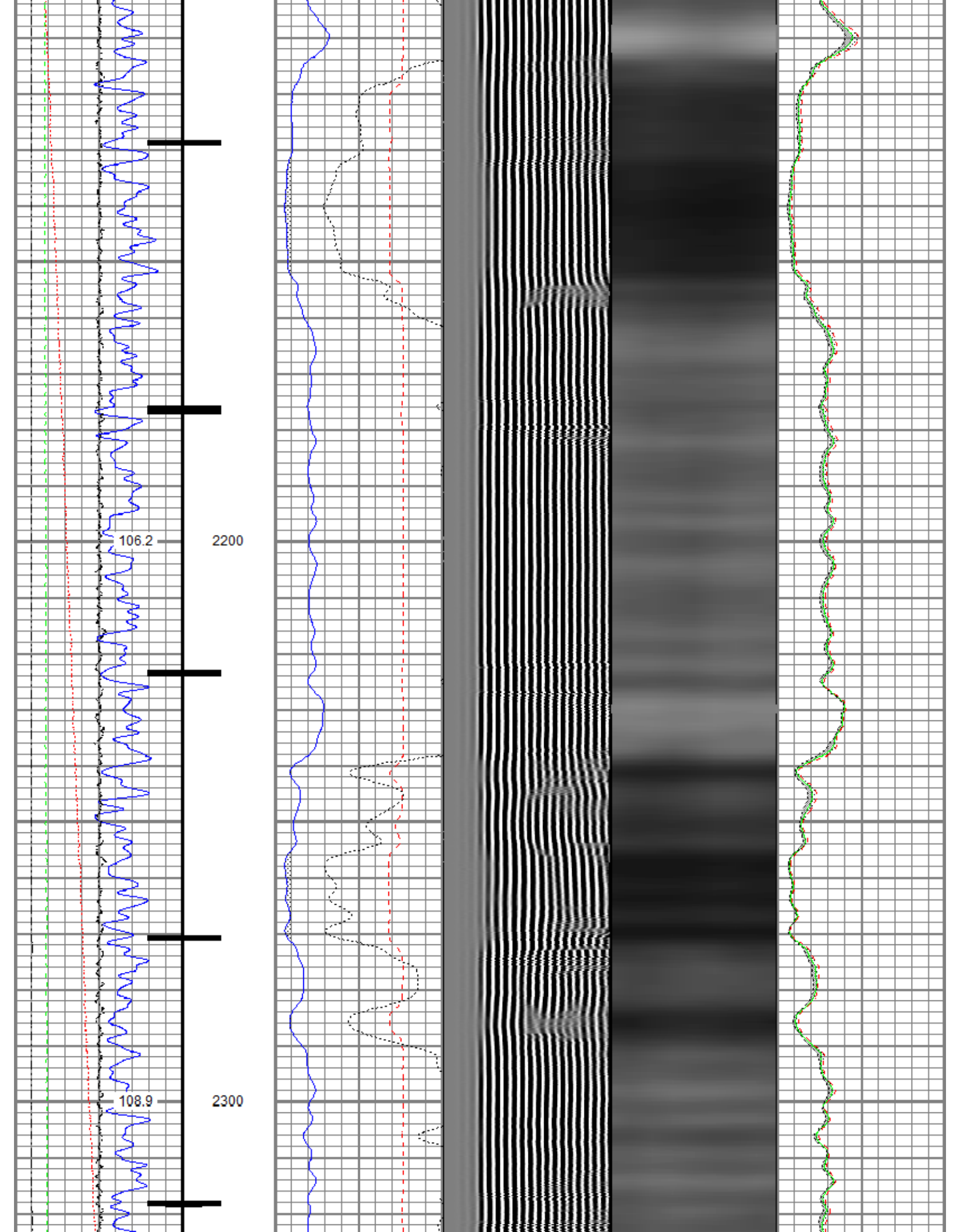


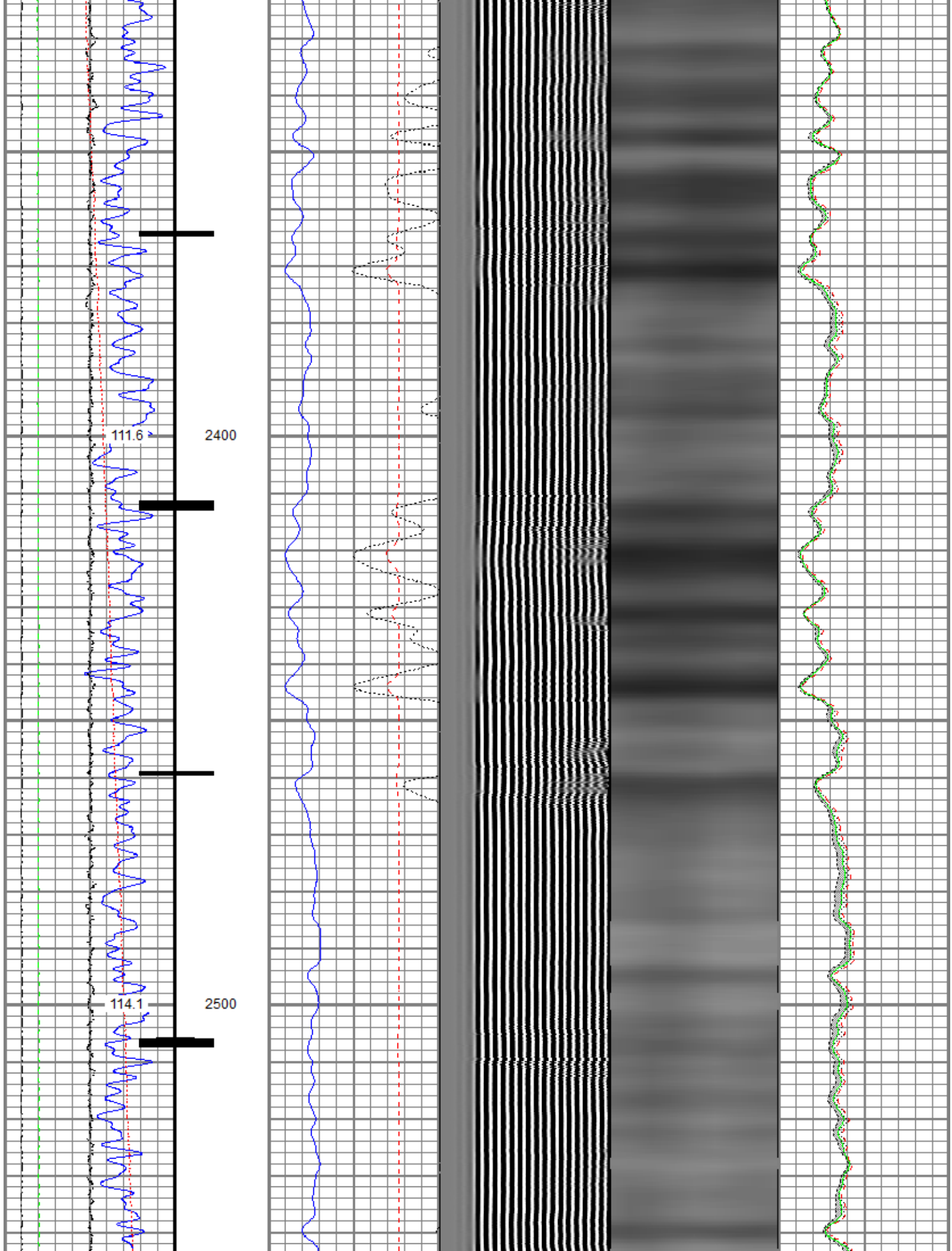


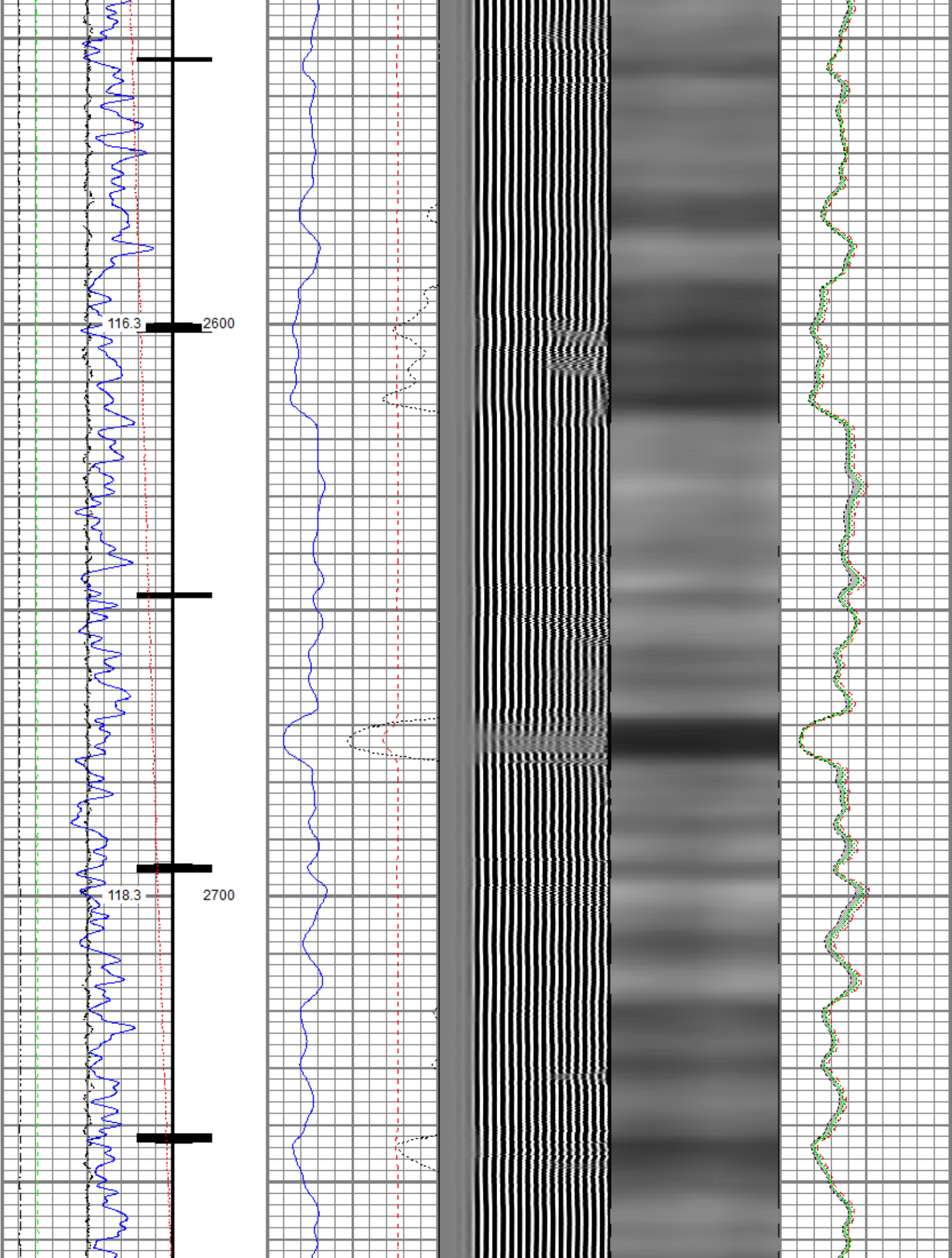


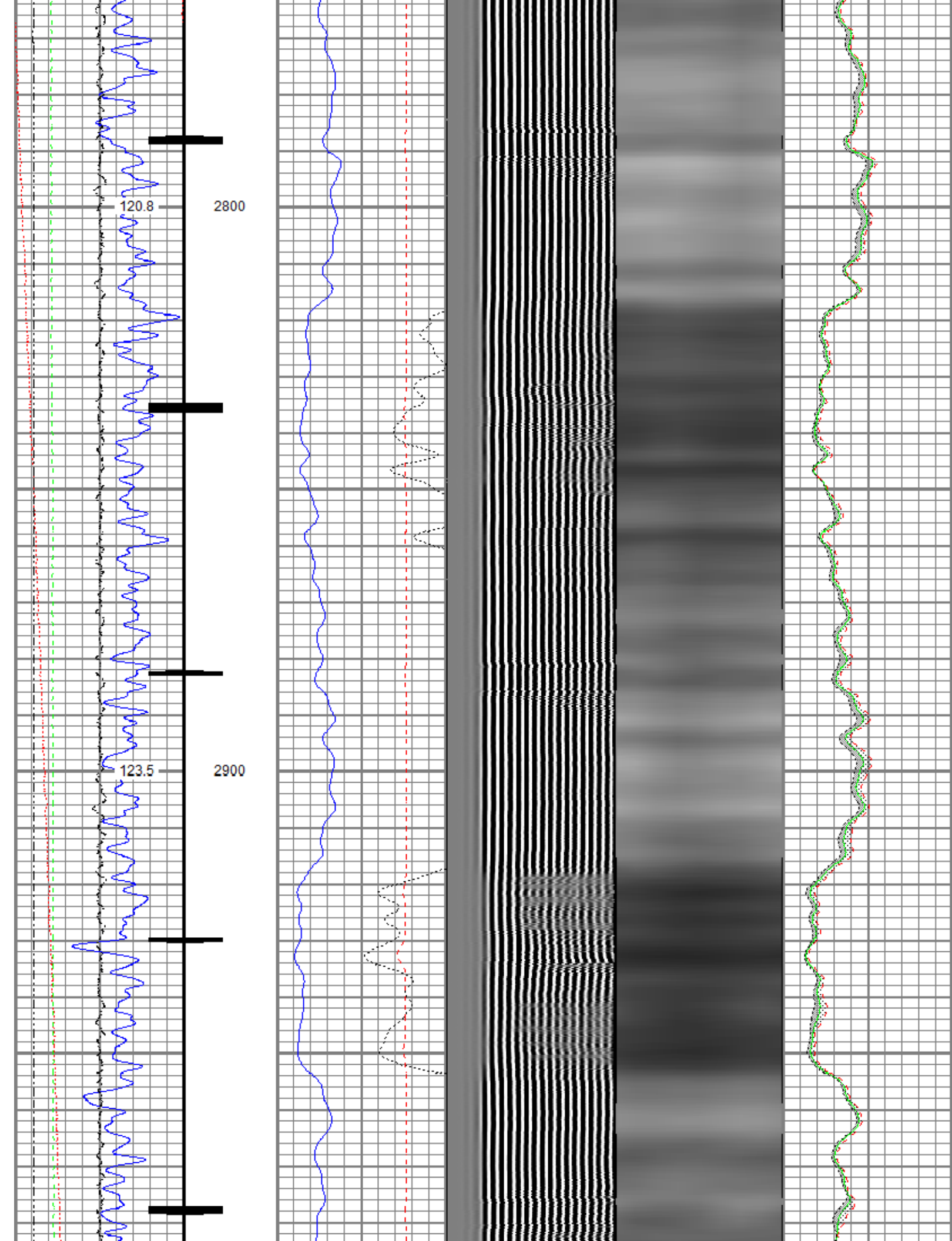


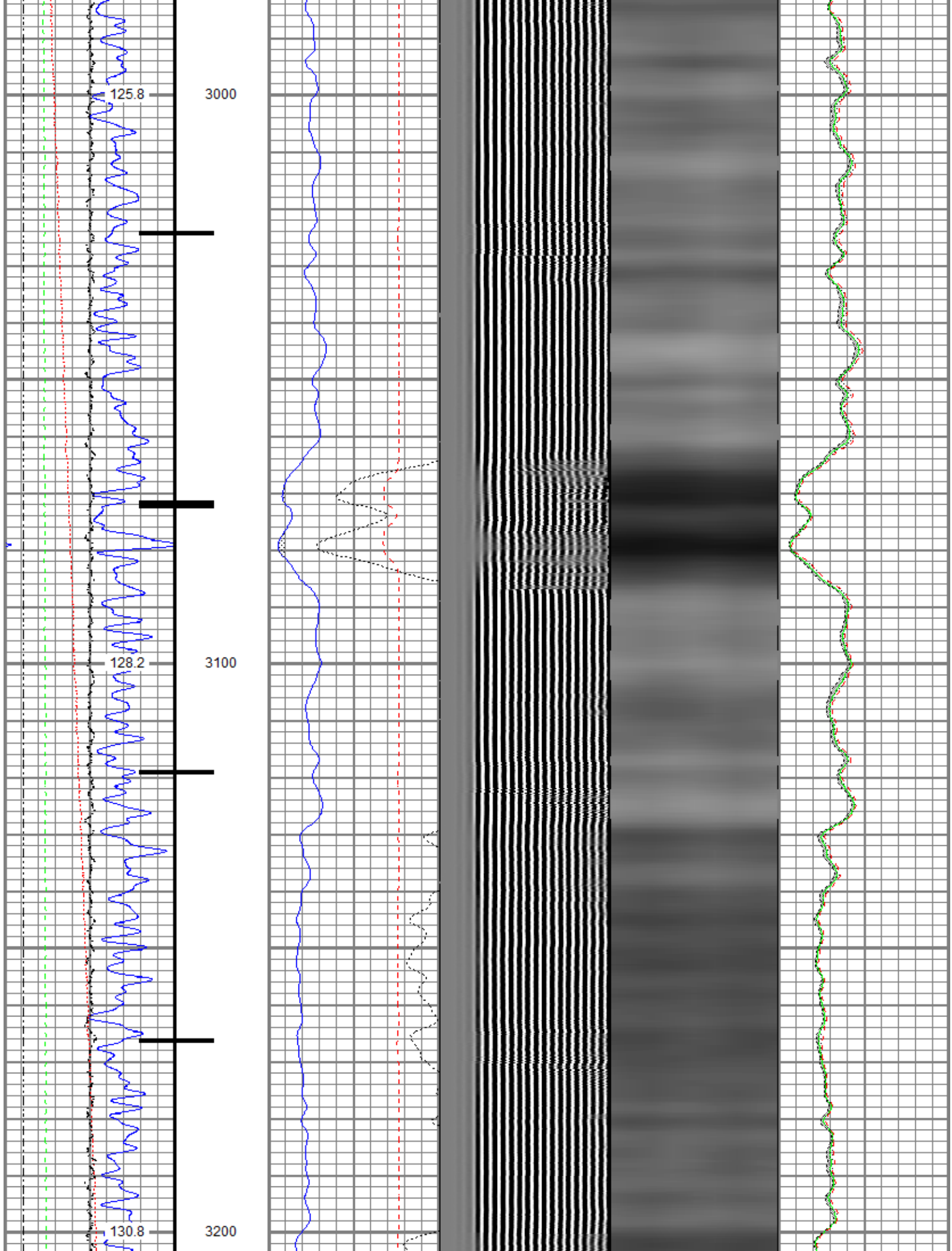


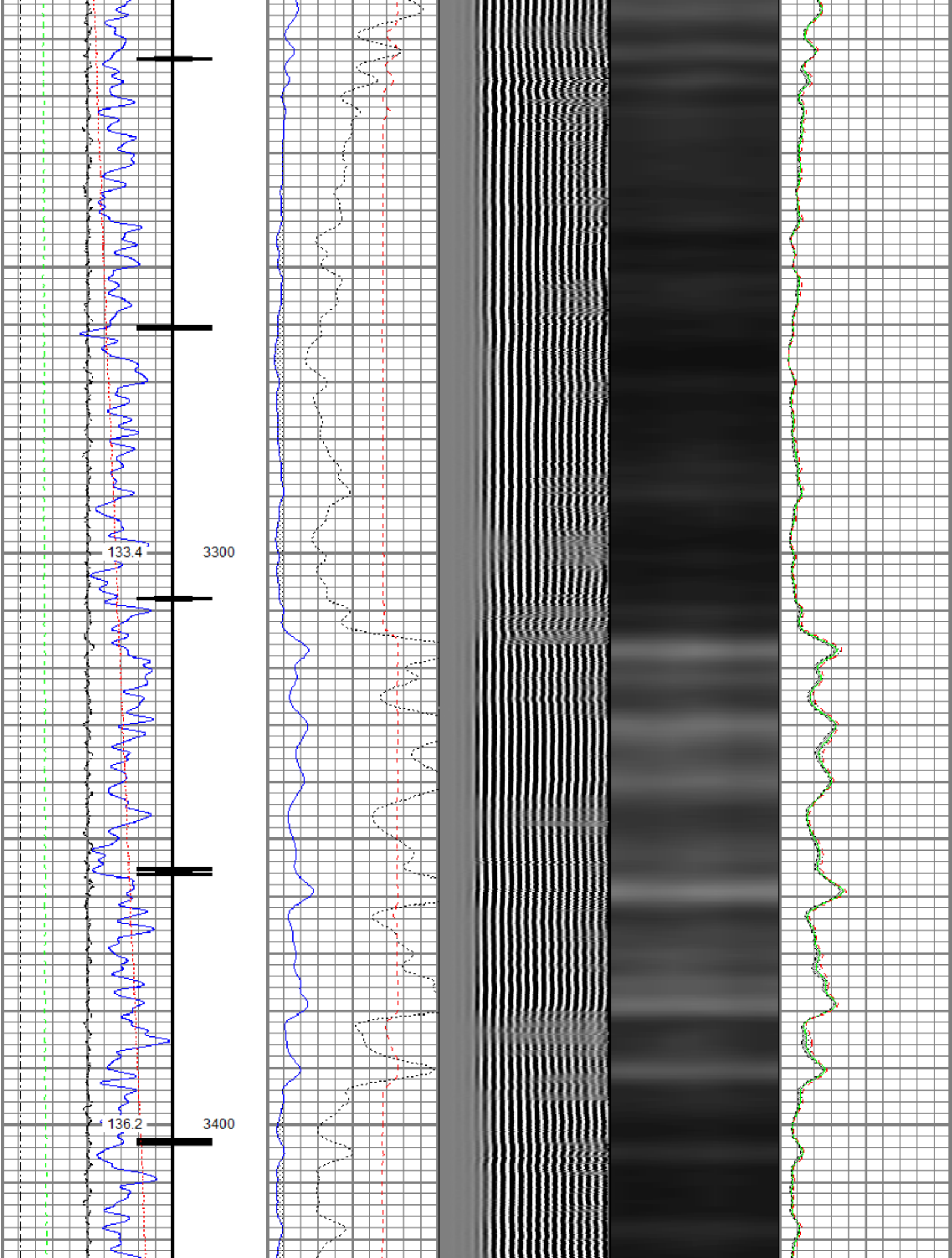


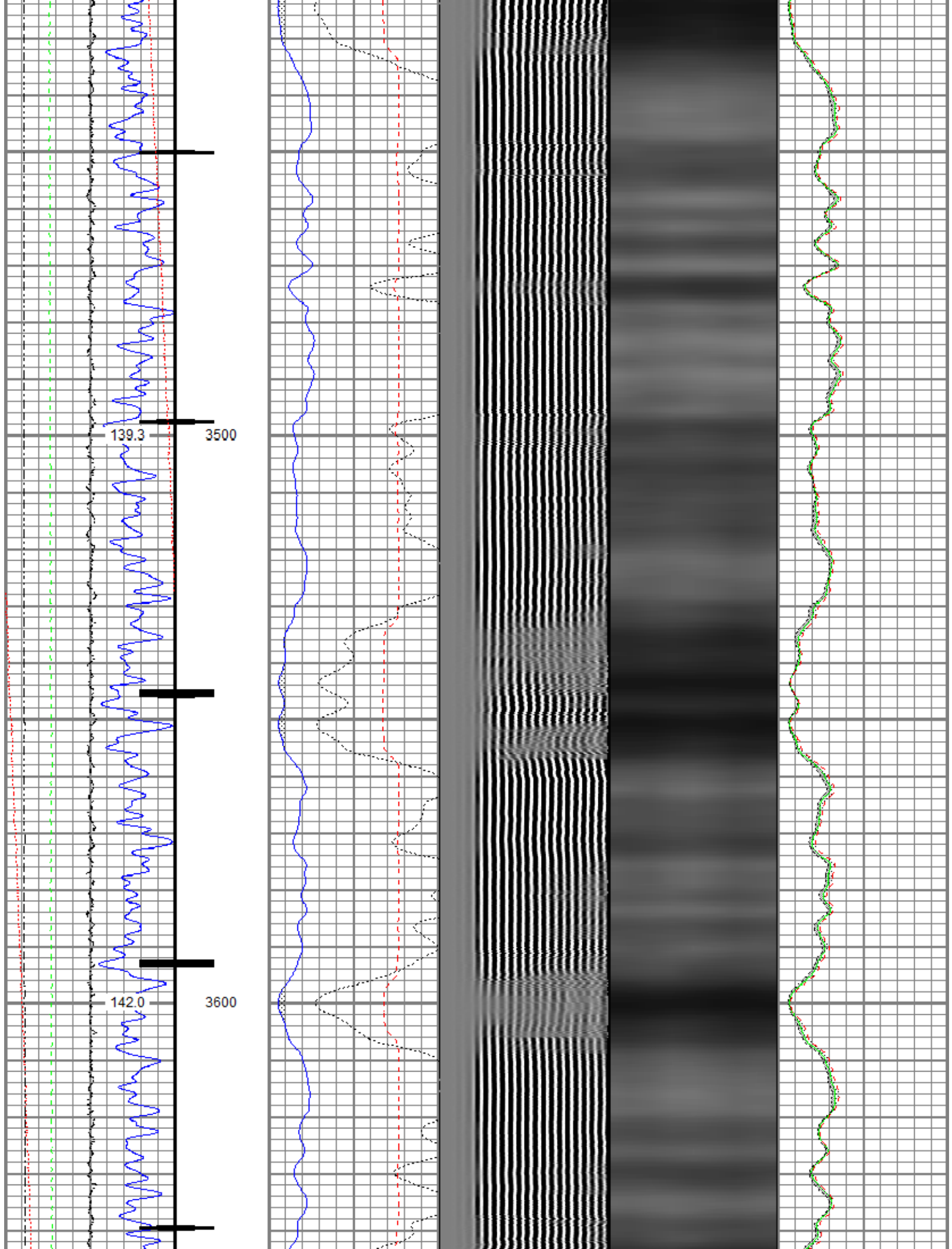


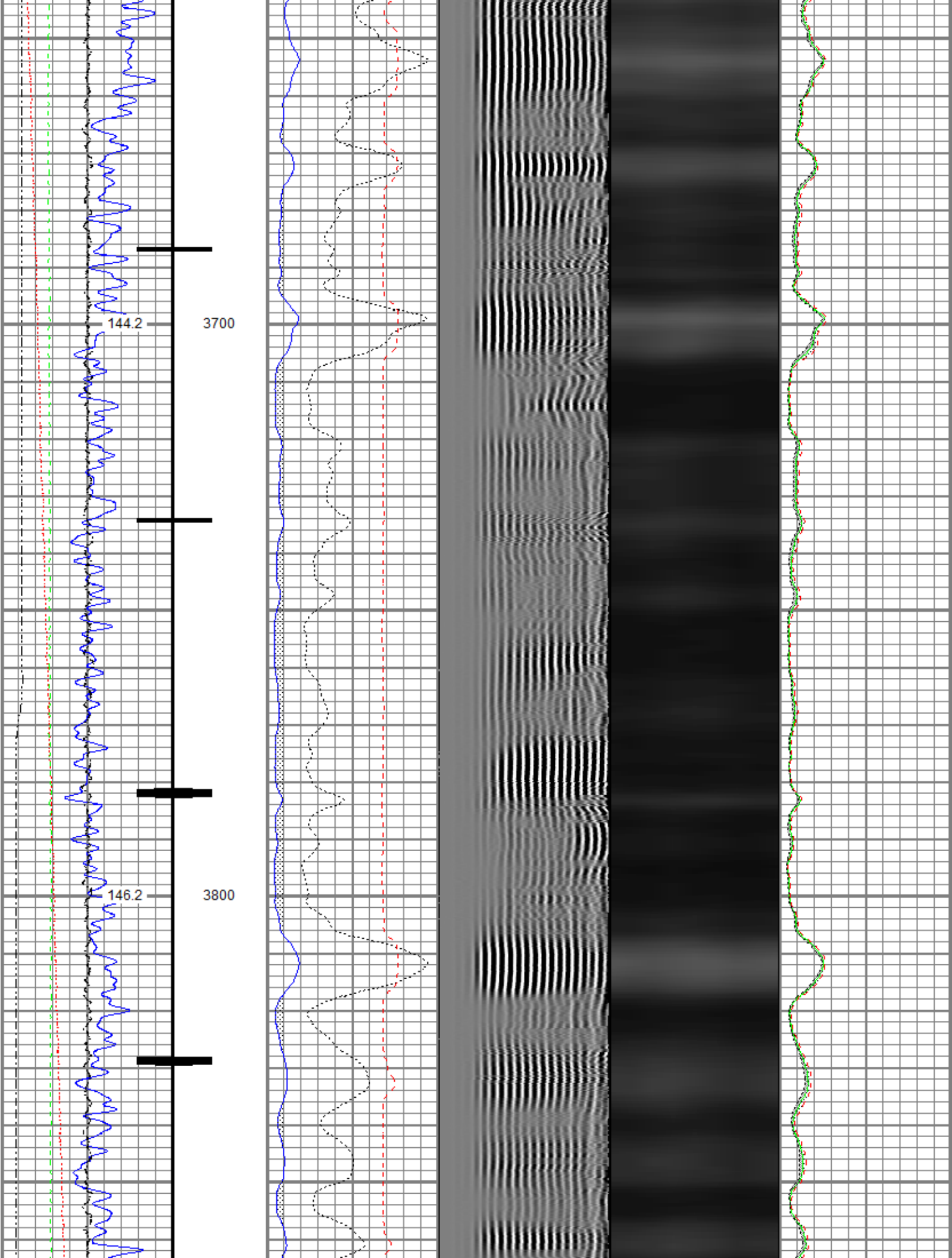


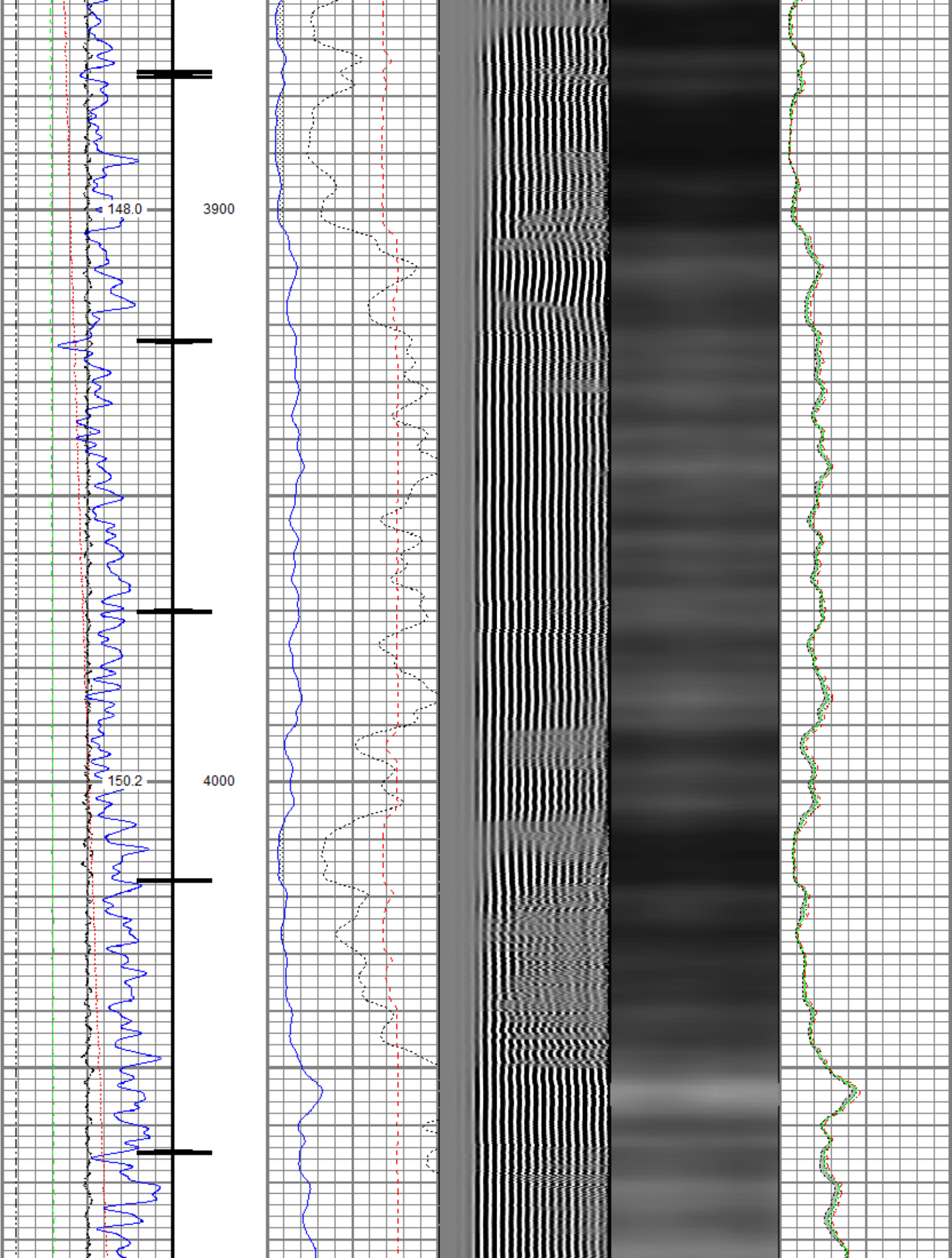


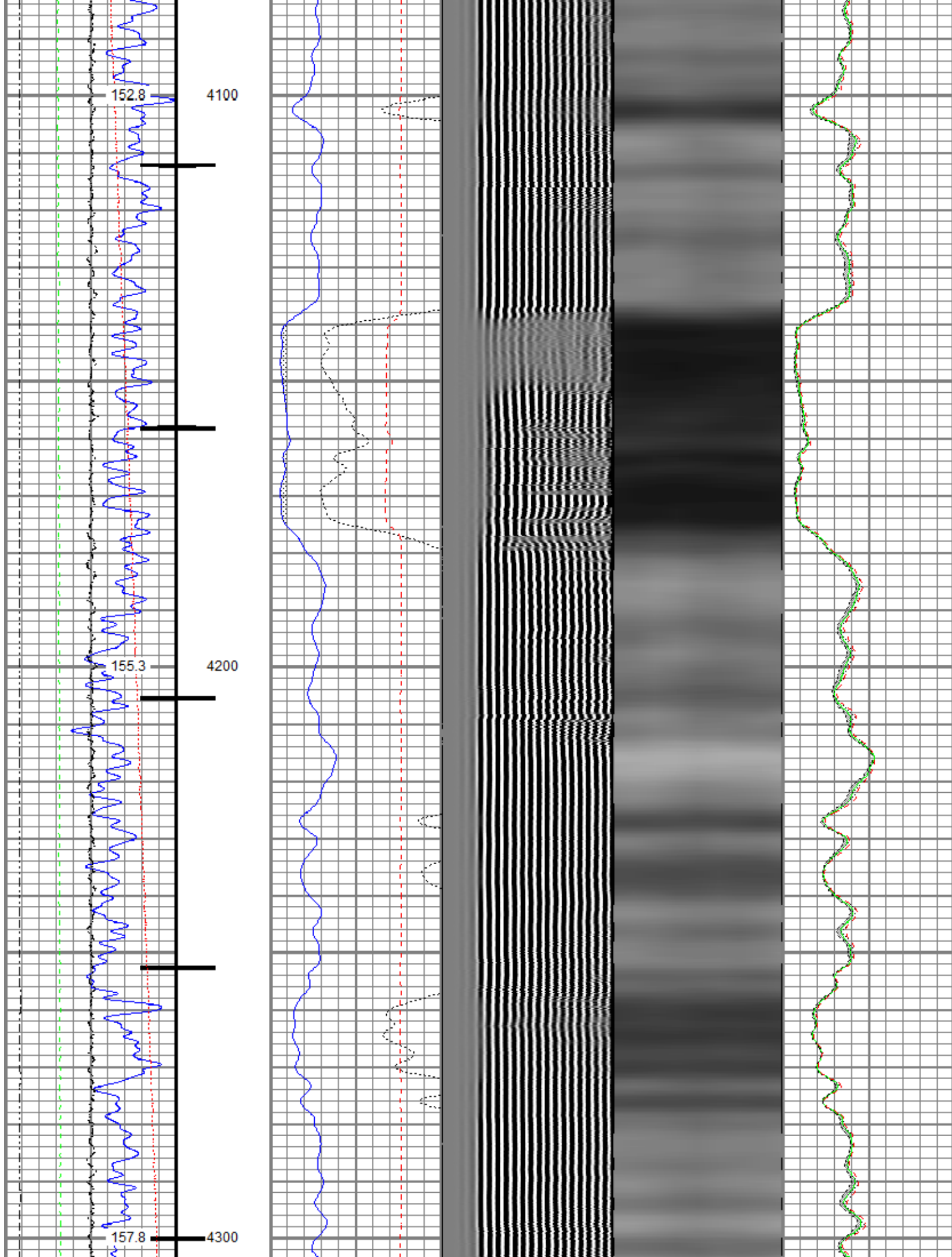


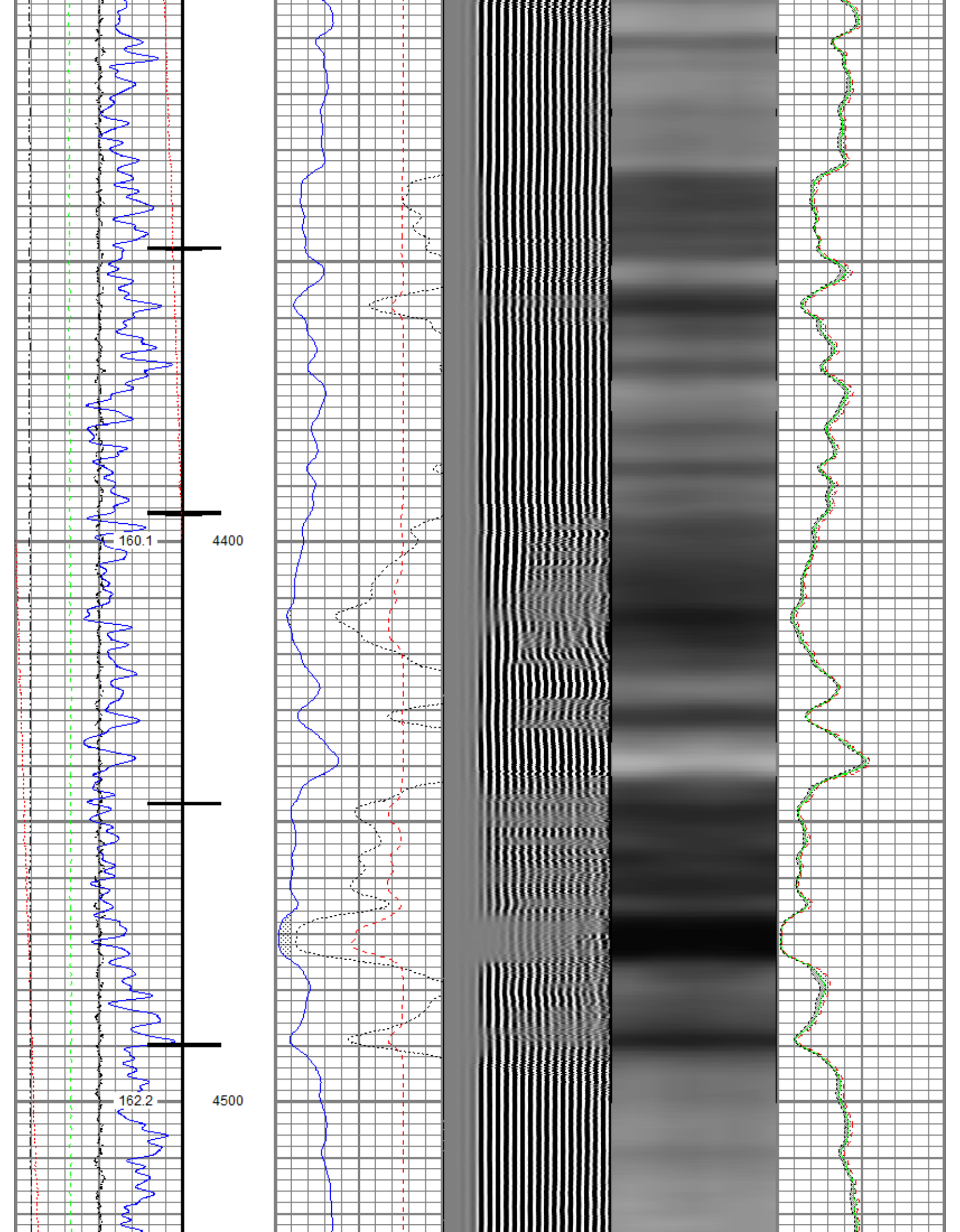


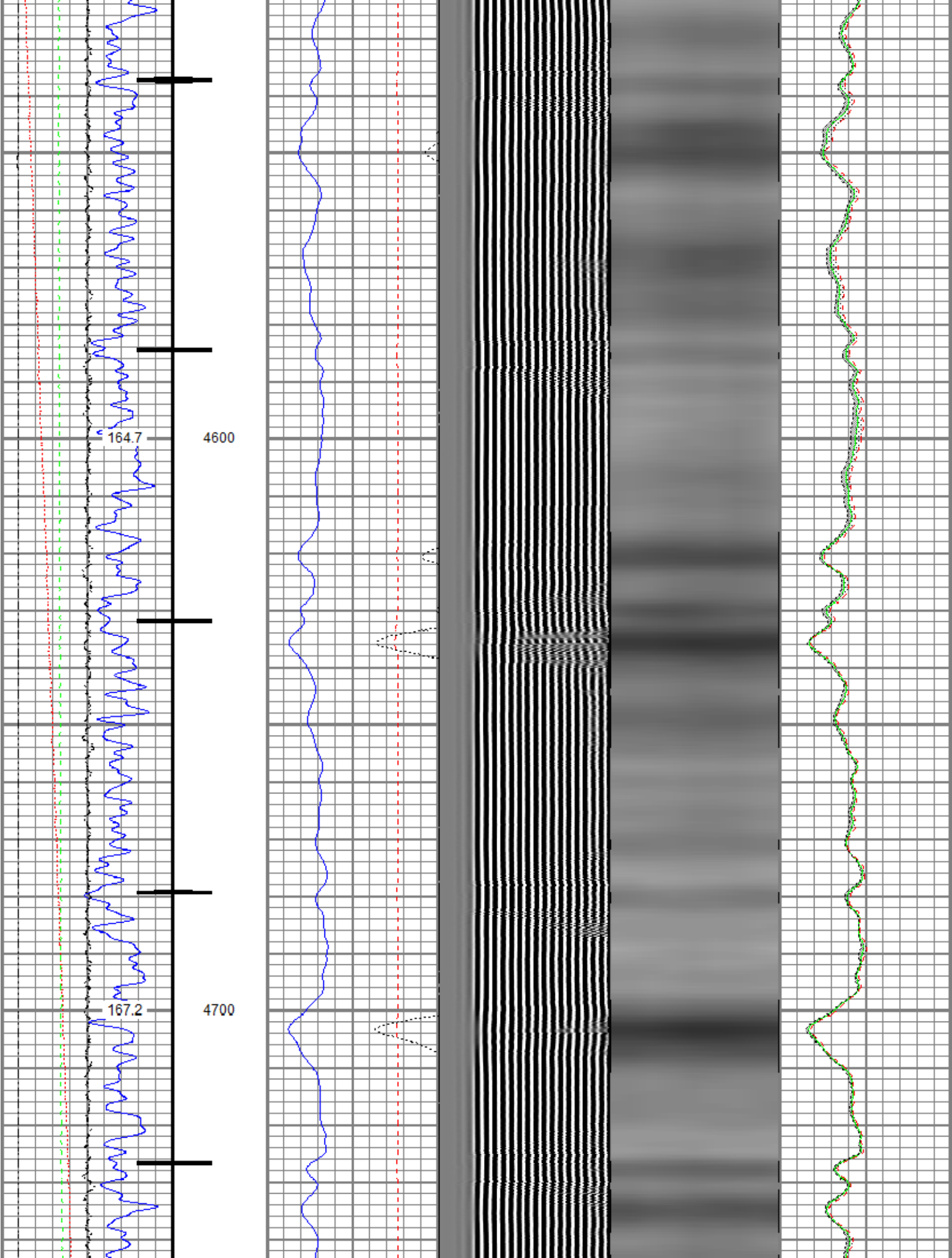


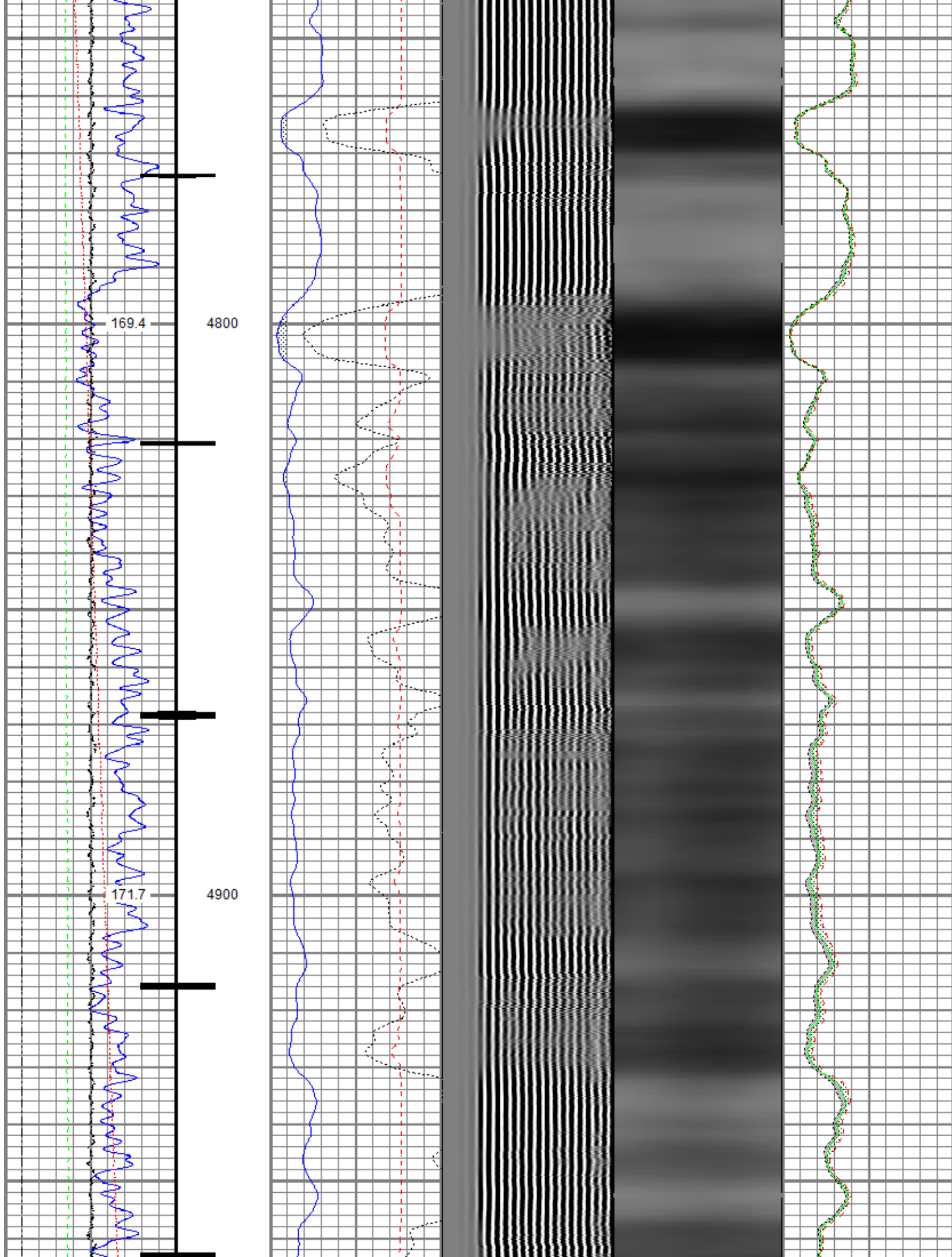


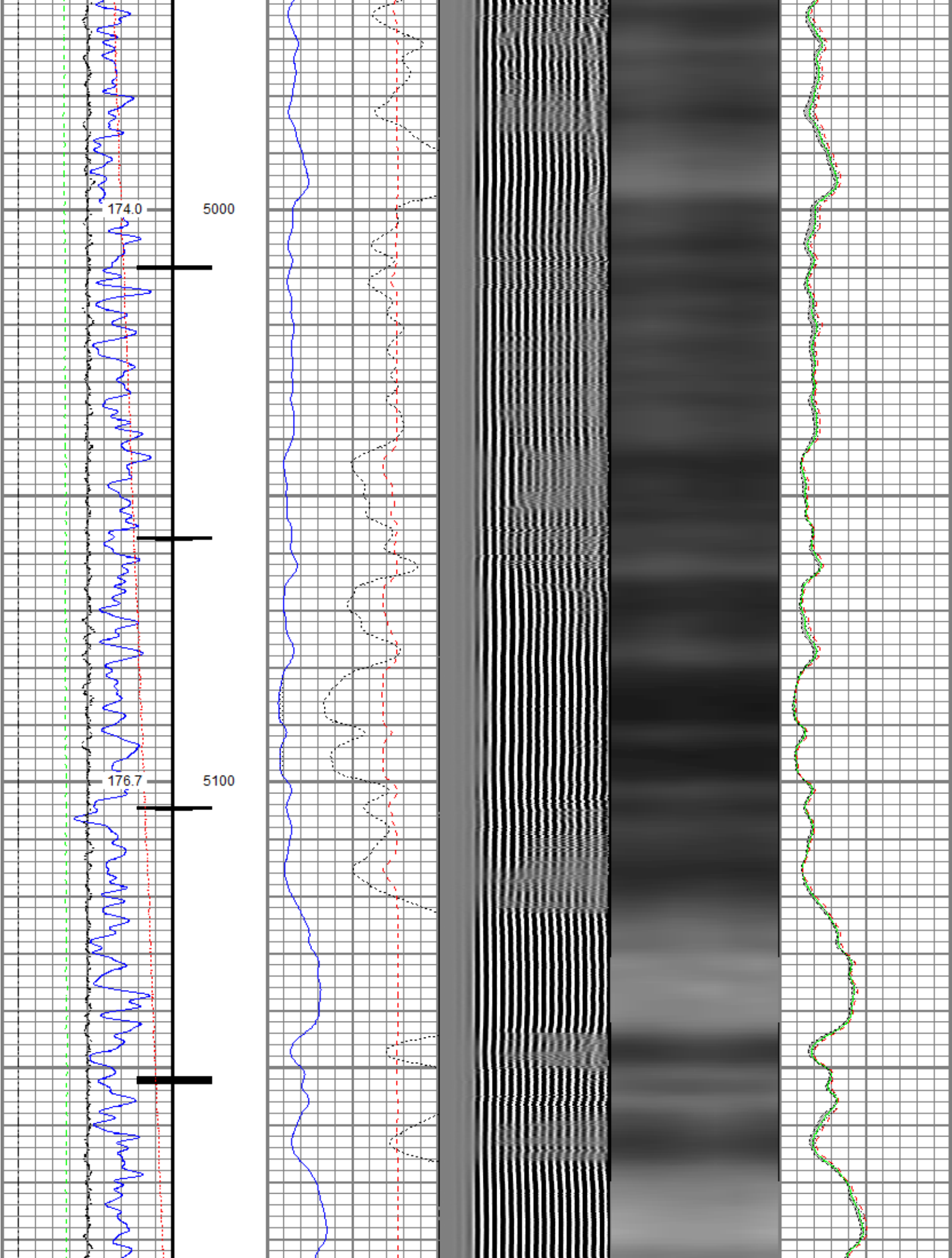


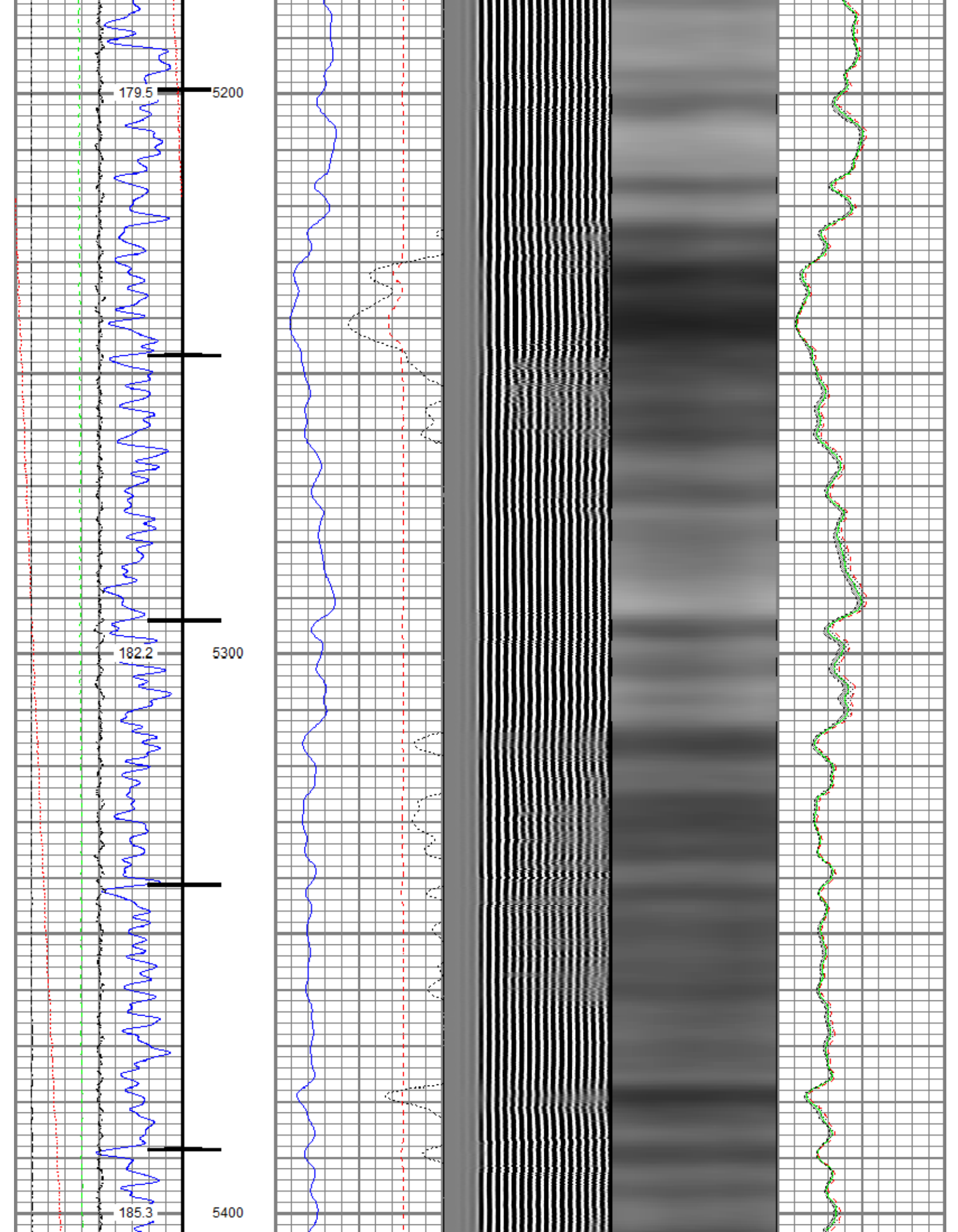


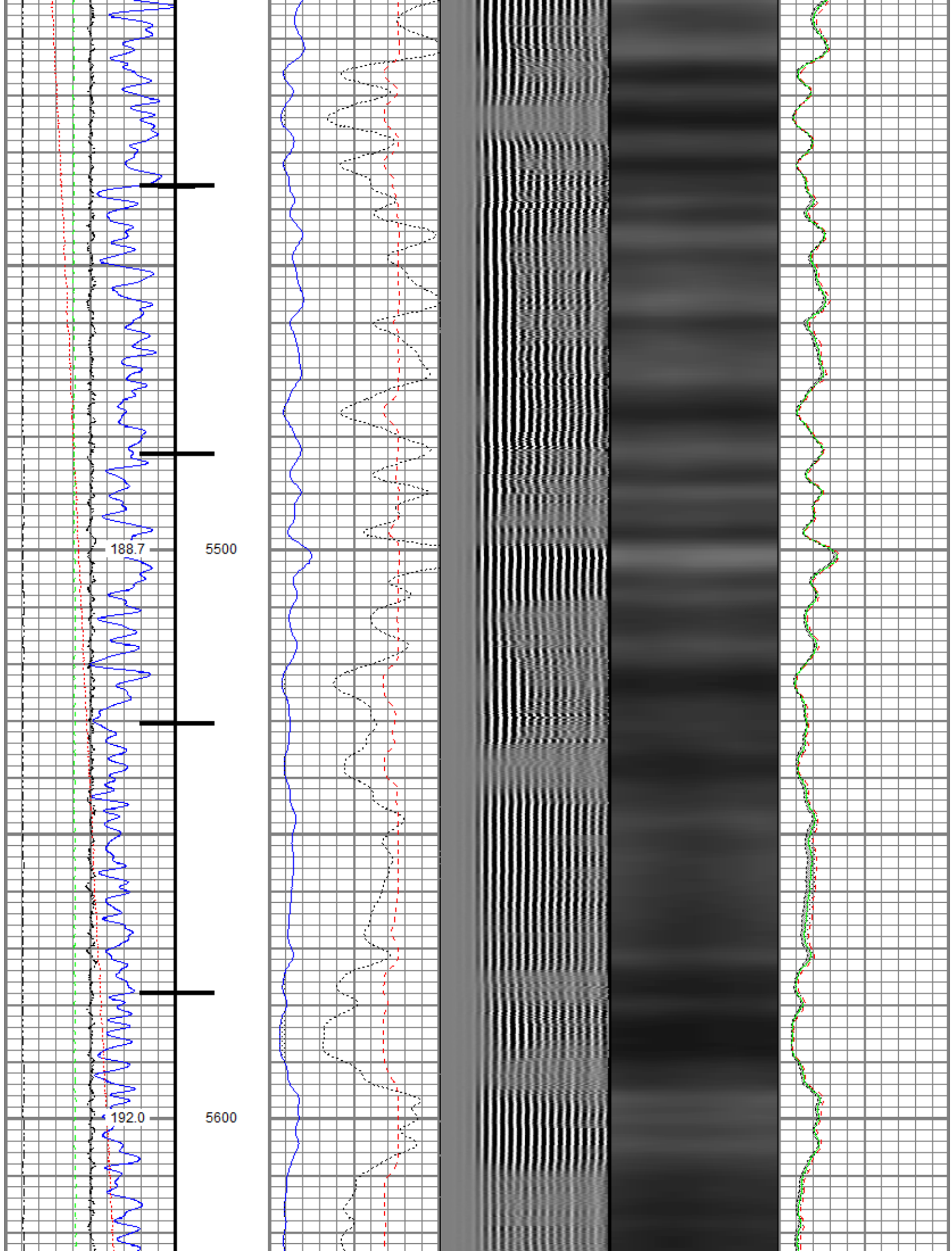


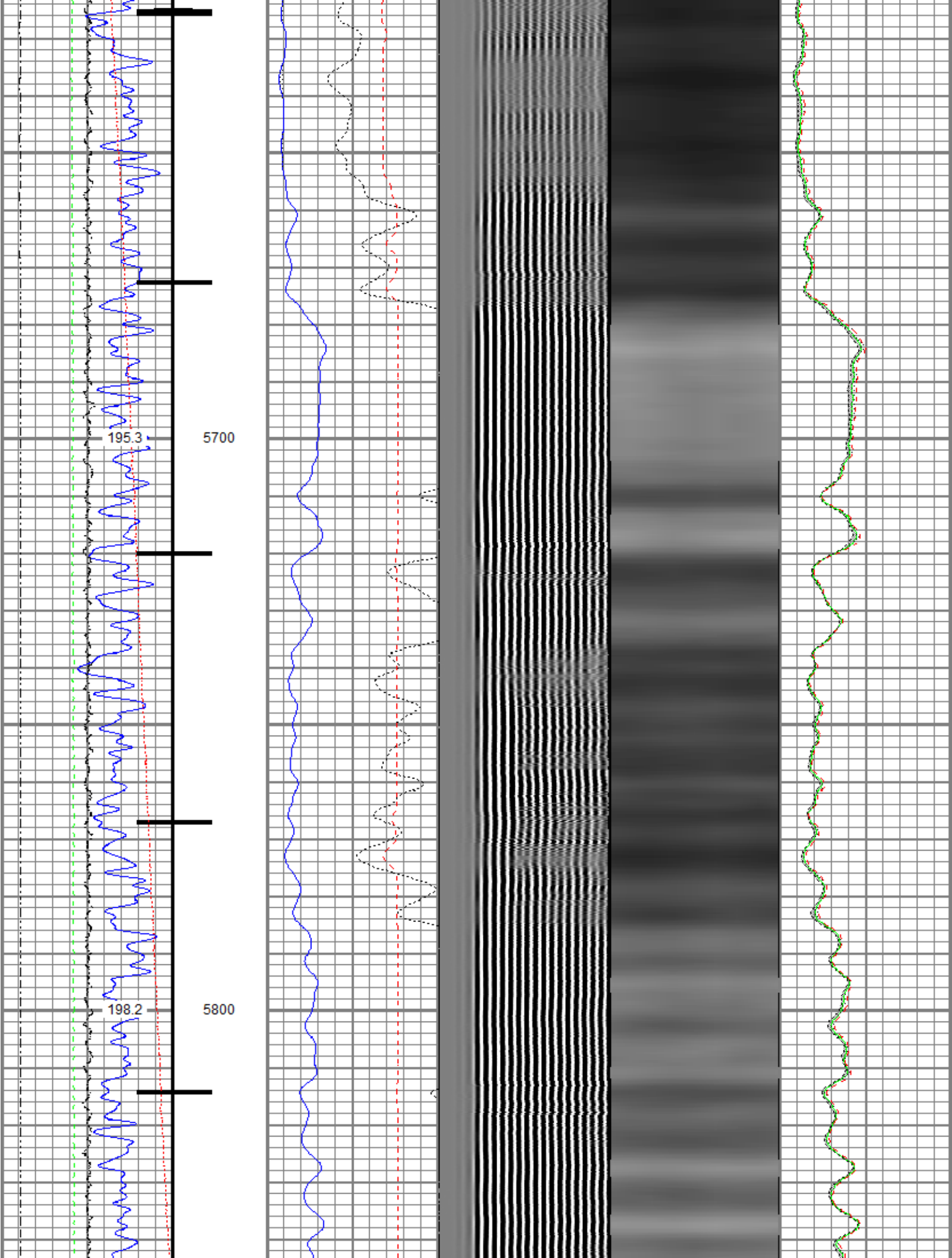


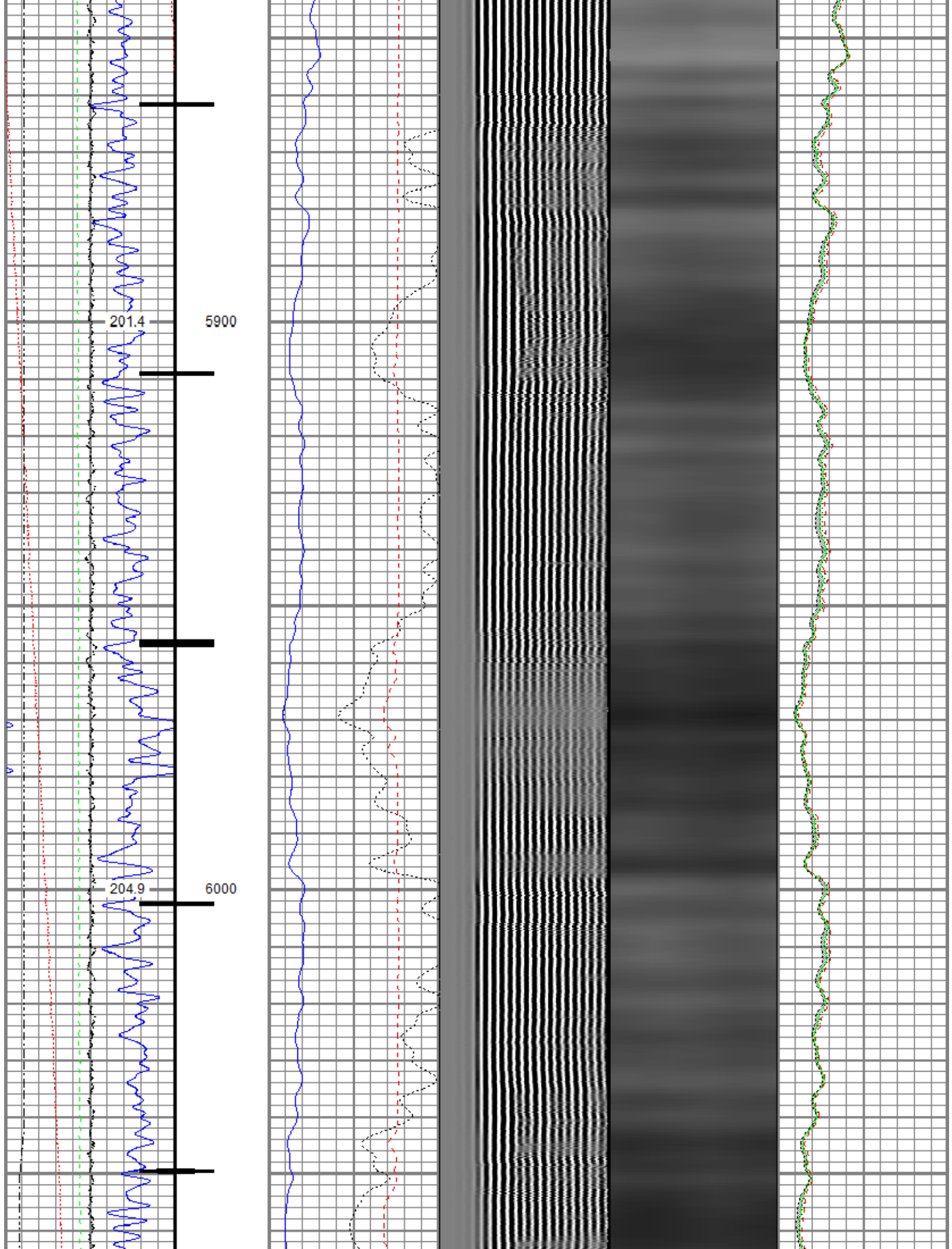


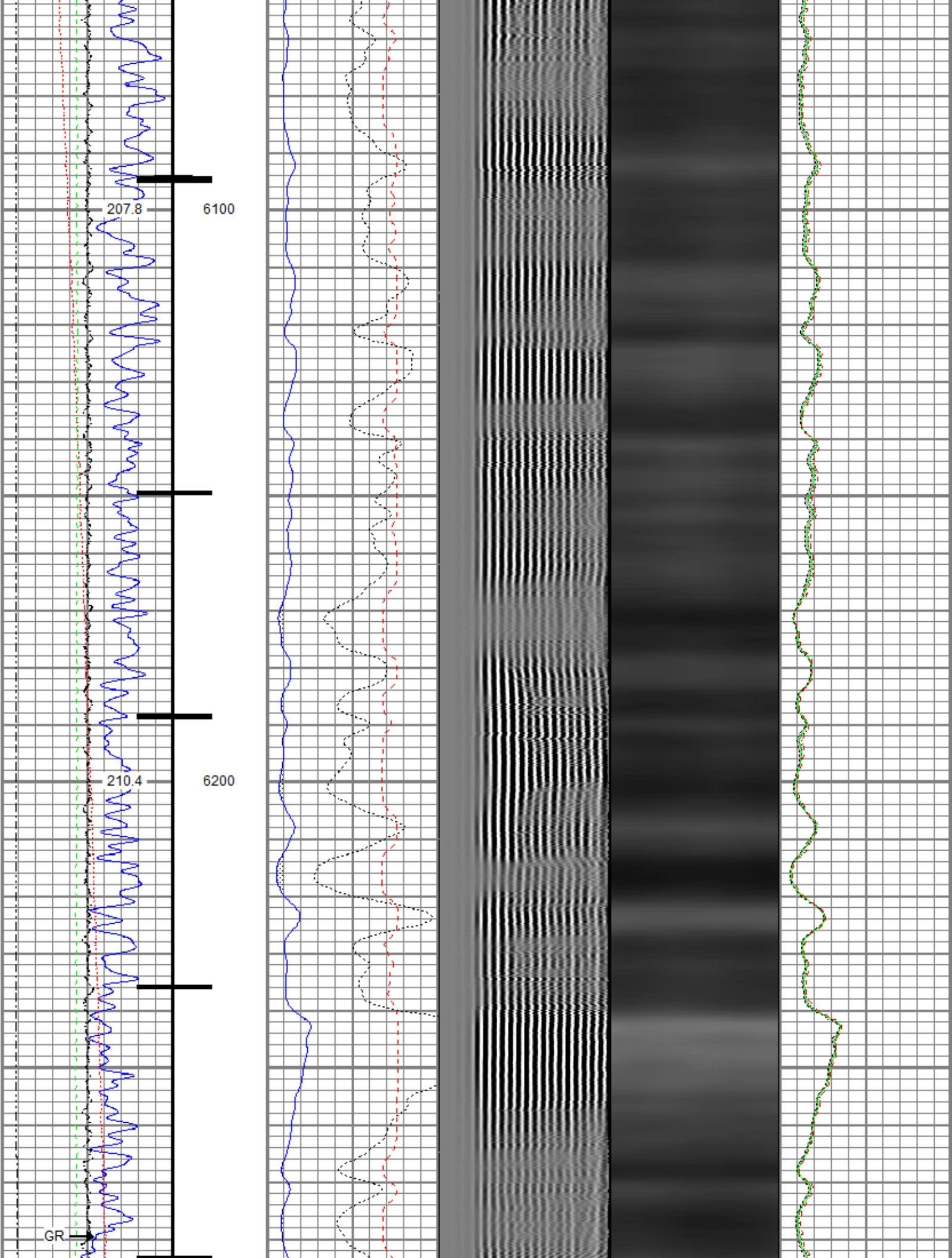


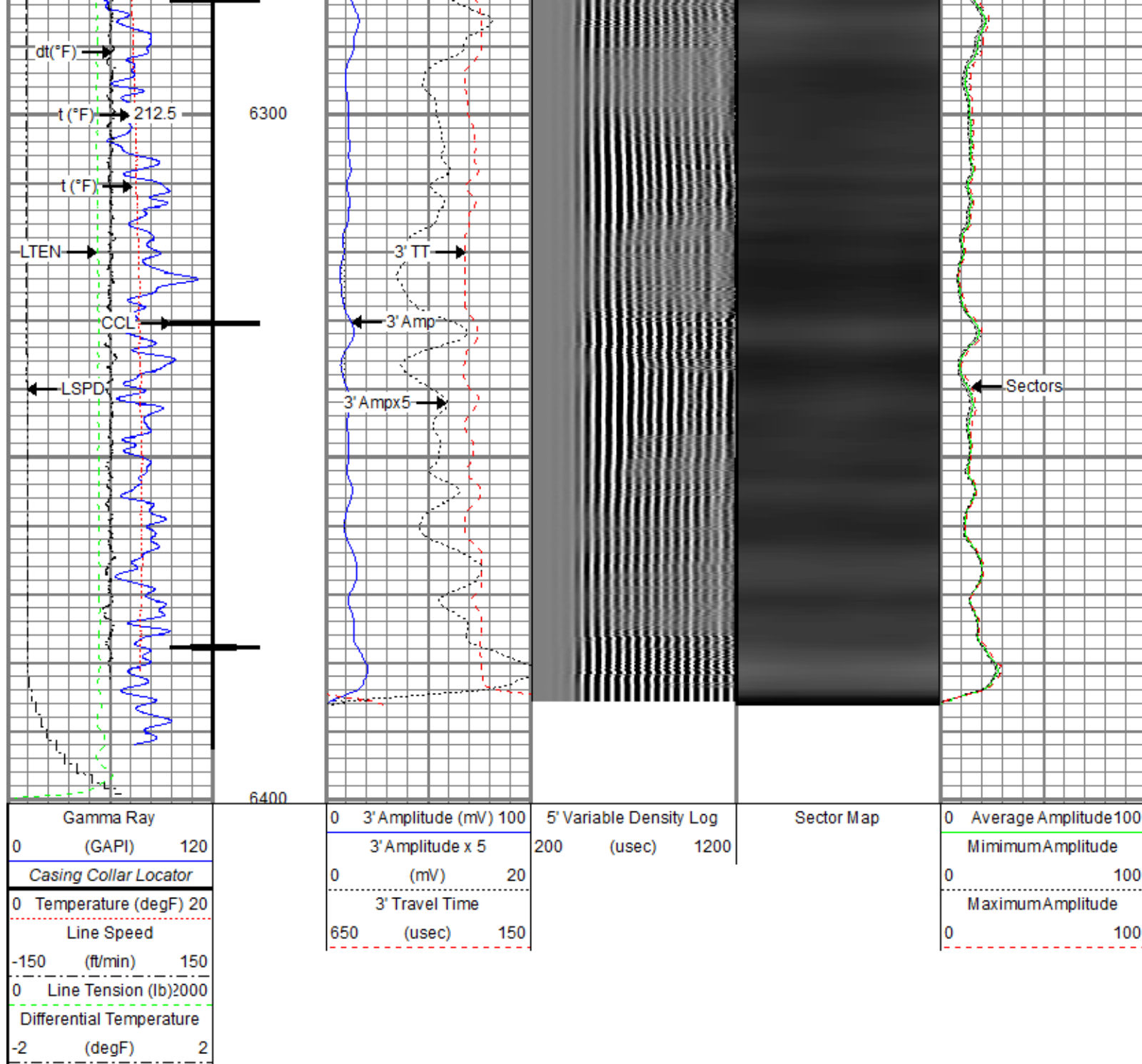


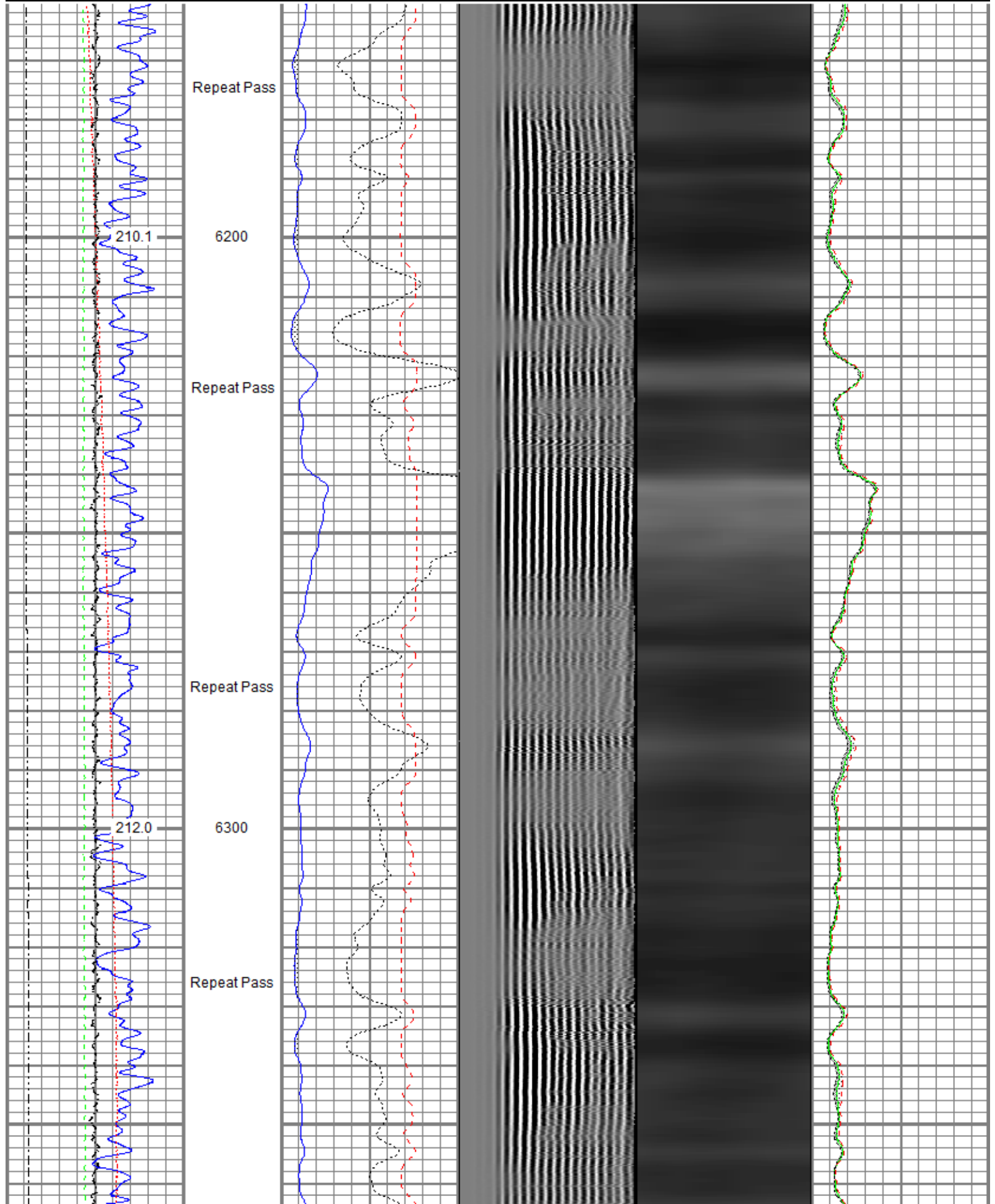


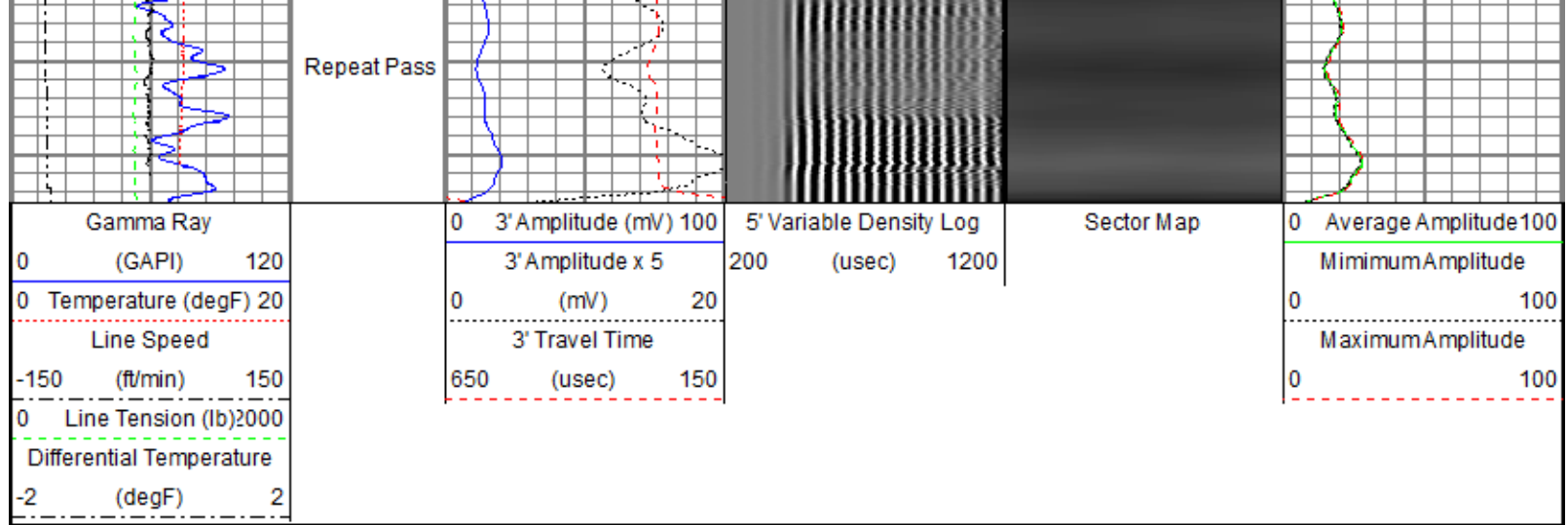




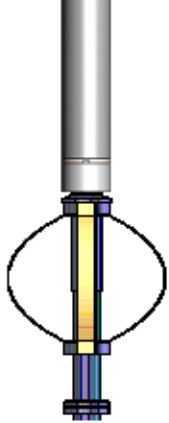








Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.44	3.60
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
TEMP	17.04					
WVFS8	14.81		Probe Radii-2750 RBT (FW1302-001) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
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		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
CCL\$2	6.80					
CCL\$1	6.80					
GR	5.46		Probe GR CCL 2750 SPR (101001)	4.80	2.75	55.00

	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: SRC Energy_Boomerang 33N-6C-M_RBL_04-19-18.db: field/well_8/RBL/pass4 Total length: 23.86 ft Total weight: 223.60 lb O.D.: 2.75 in				

Calibration Report	
Database File	C:\ProgramData\Warrior\Data\SRC\Boomerang 33N-6C-M\SRC Energy_Boomerang 33N-6C-M_RBL_04-19-18.db
Dataset Pathname	well_8/RBL/pass4
Dataset Creation	Thu Apr 19 13:39:20 2018

Gamma Ray Calibration Report		
Serial Number:	101001	
Tool Model:	2750 6PB	
Performed:	Sun Nov 12 11:25:32 2017	
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:	-48.879	ft

Master Calibration, performed Thu Apr 19 13:07:53 2018:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	0.799	0.800	71.921	89.830	0.130
CAL	0.740	0.741				
5'	0.012	0.806	0.800	71.921	89.522	-0.263
SUM						
S1	0.006	0.776	0.000	100.000	129.775	-0.730
S2	0.008	0.741	0.000	100.000	136.275	-1.033
S3	0.007	0.738	0.000	100.000	136.859	-0.944
S4	0.006	0.770	0.000	100.000	131.034	-0.849
S5	0.007	0.840	0.000	100.000	119.986	-0.826
S6	0.006	0.896	0.000	100.000	112.434	-0.690
S7	0.006	0.892	0.000	100.000	112.889	-0.726
S8	0.007	0.850	0.000	100.000	118.696	-0.833

Internal Reference Calibration, performed (Not Performed):		
	Raw (v)	Calibrated (v)
		Results

	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.740	0.741	1.000	0.000

Air Zero Calibration, performed Thu Apr 19 13:07:32 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: Boomerang 33N-6C-M
Field: Wattenberg
County: Weld
State: Colorado