



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company SRC Energy Inc		Well Troudt 40N-23C-M		Field Wattenberg		County Weld		State Colorado	
Location:		SEC 27 TWP 6N RGE 66W		API #: 05-123-46236		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		03-OCT-2018							
Run Number		Three							
Depth Driller		14895 FT (GL)							
Depth Logger		6776 FT							
Bottom Logged Interval		6761 FT							
Top Log Interval		Surface							
Open Hole Size		---							
Type Fluid		Water							
Density / Viscosity		8.34 lb/gal							
Max. Recorded Temp.		222°F							
Estimated Cement Top		See Log							
Time Well Ready		ROA							
Time Logger on Bottom		16:58							
Equipment Number		HD-0324							
Location		Platteville, CO							
Recorded By		M. Steinman							
Witnessed By		Mate Braeher							
Run Number		Bit		From		To		Size	
Borehole Record		Weight		From		To		Tubing Record	
Casing Record		Size (in)		Wgt (lbs/ft)		Grade		Top	
Surface Casing		9 5/8		36		---		Surface	
Intermediate #1		5 1/2		20		HCP-110		Surface	
Intermediate #2								14880.31 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
Depth referenced to Casing Tally reported Marker Joint at 6434 FT
Adjusted +1 FT to correlate with Marker Joint
Gauge Ring/Junk Basket ran to 7220 FT with no debris
Log ran from 6761 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!!

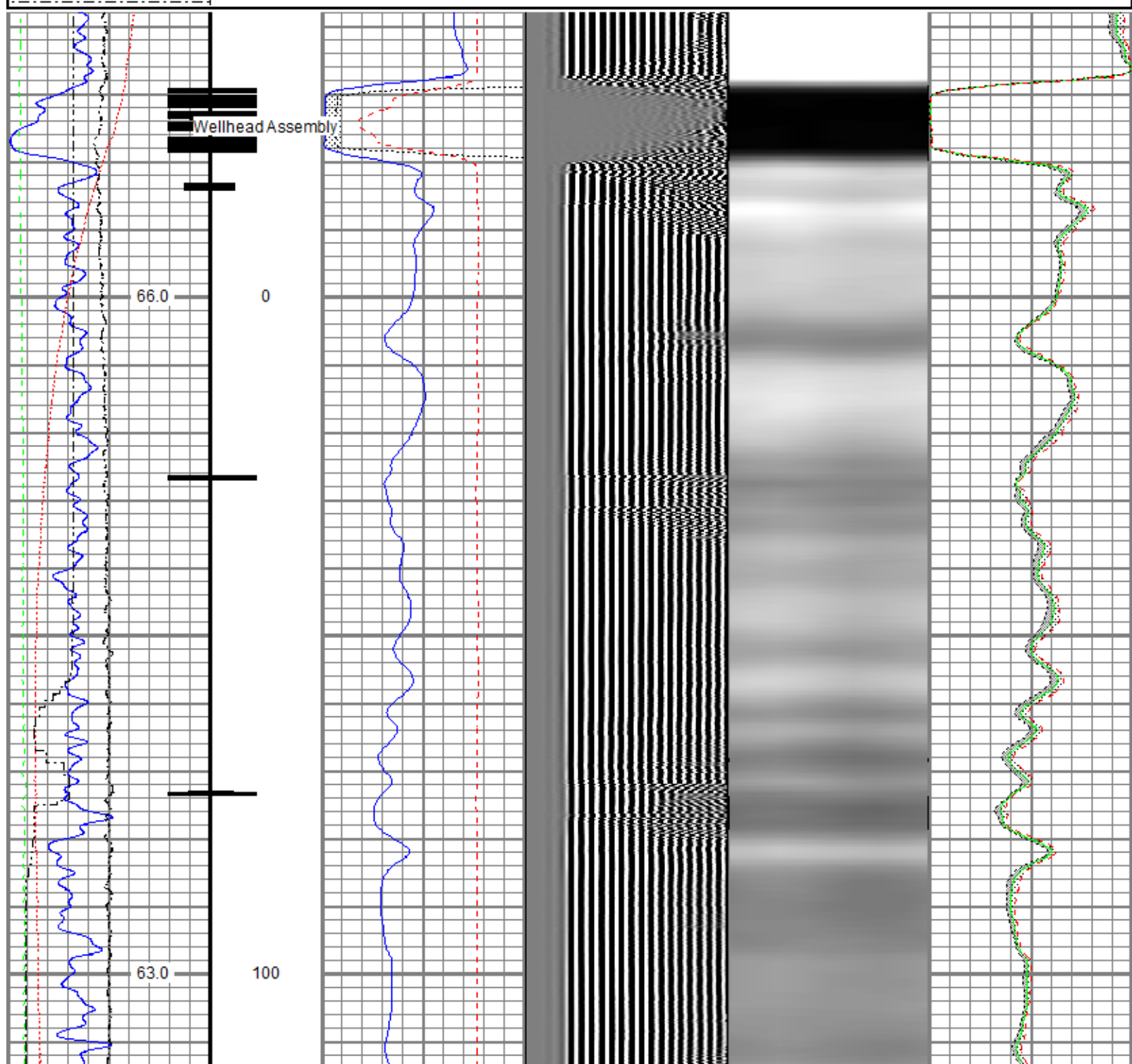


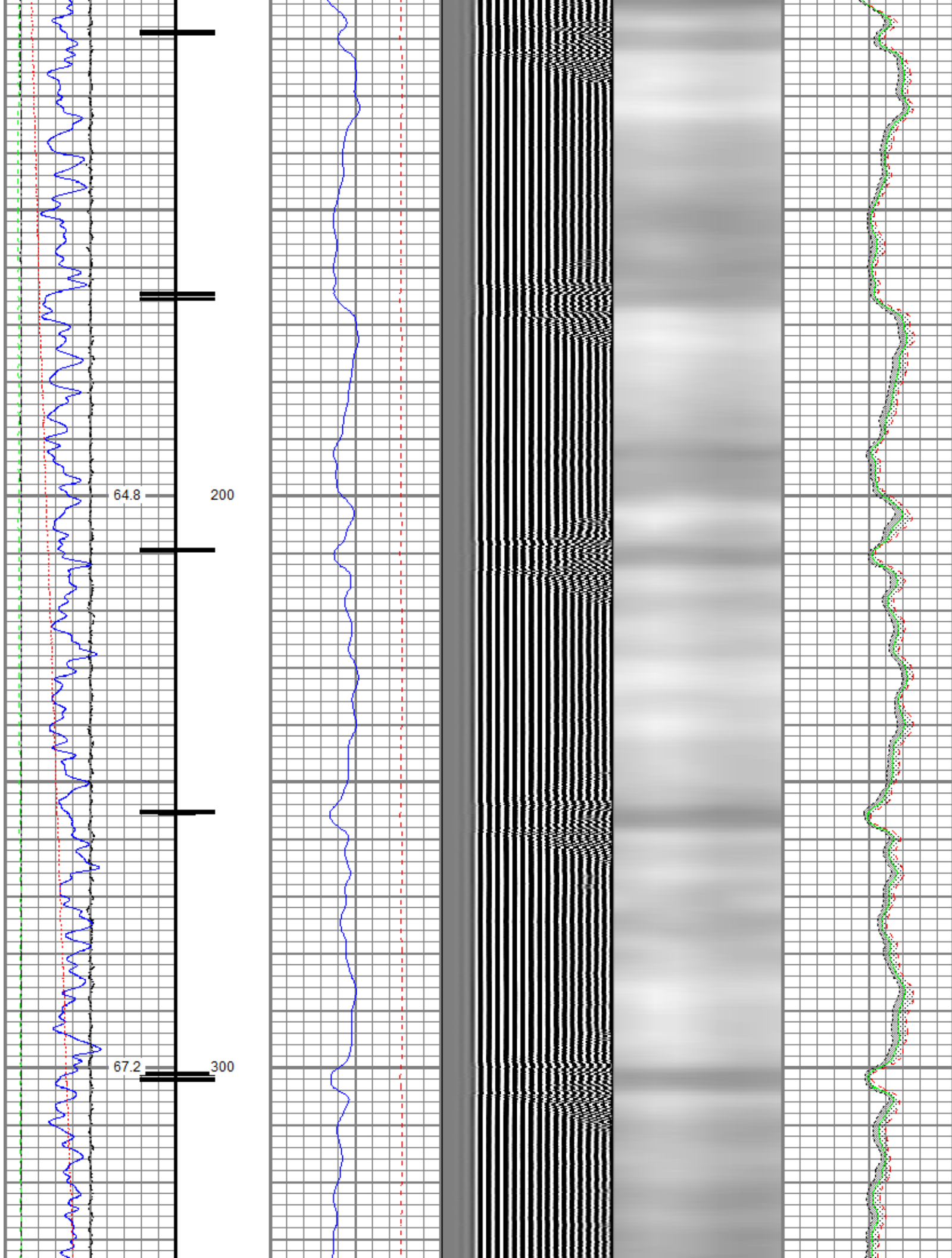
Main Pass

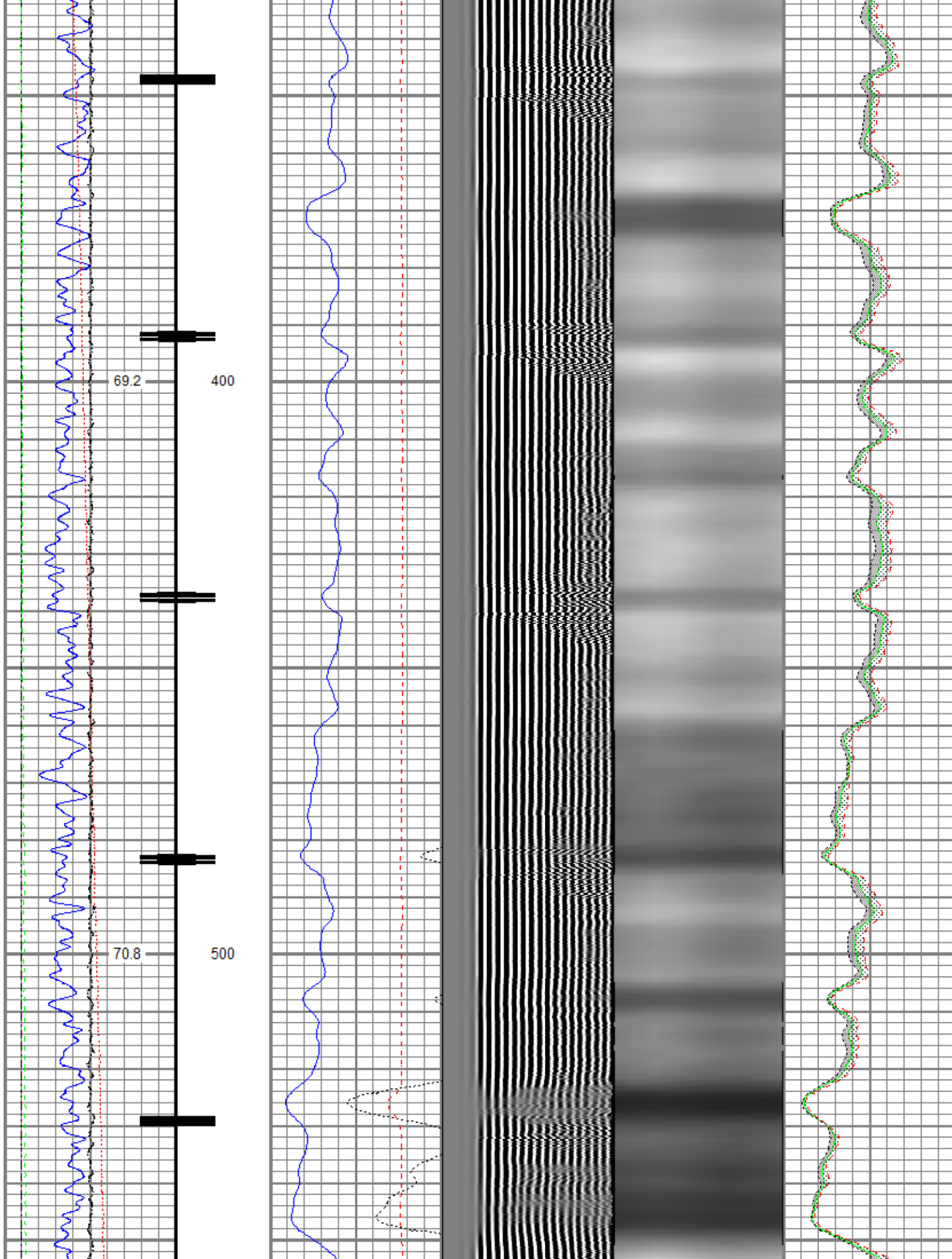
Recorded With 2500 PSI Surface Induced Pressure

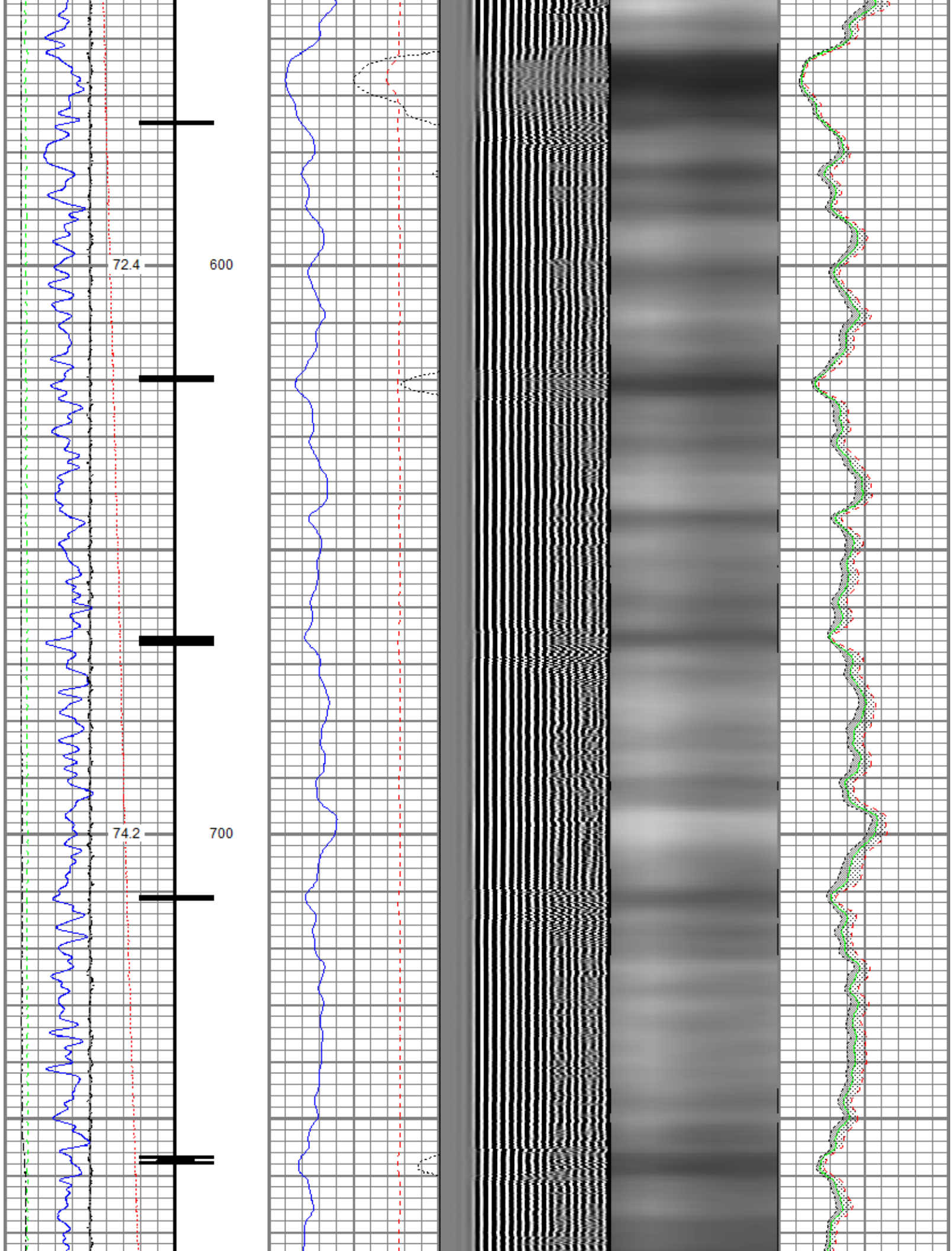
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 Presentation Format ros_radri
 Dataset Creation Thu Oct 04 14:39:34 2018
 Charted by Depth in Feet scaled 1:240

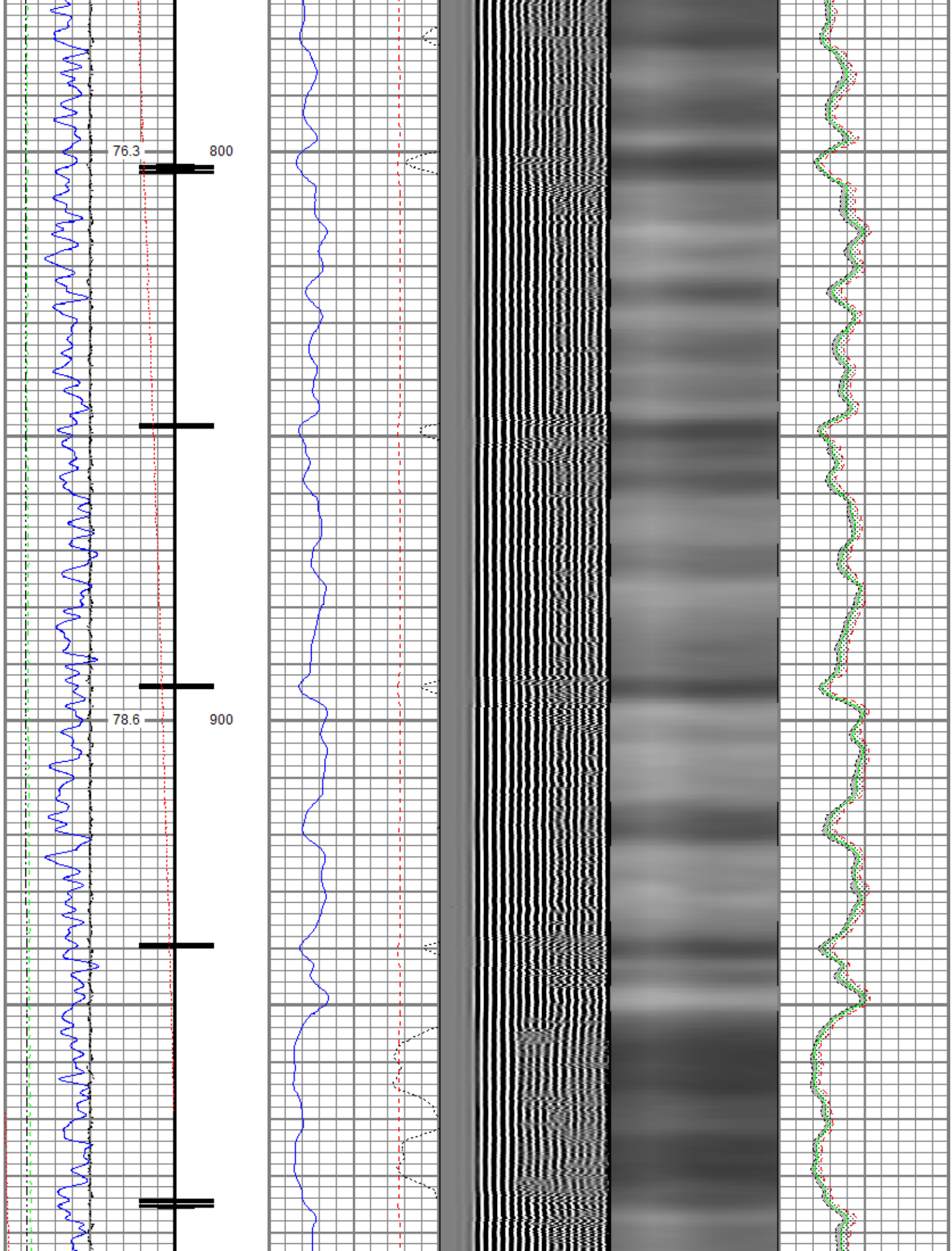
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min) 150				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

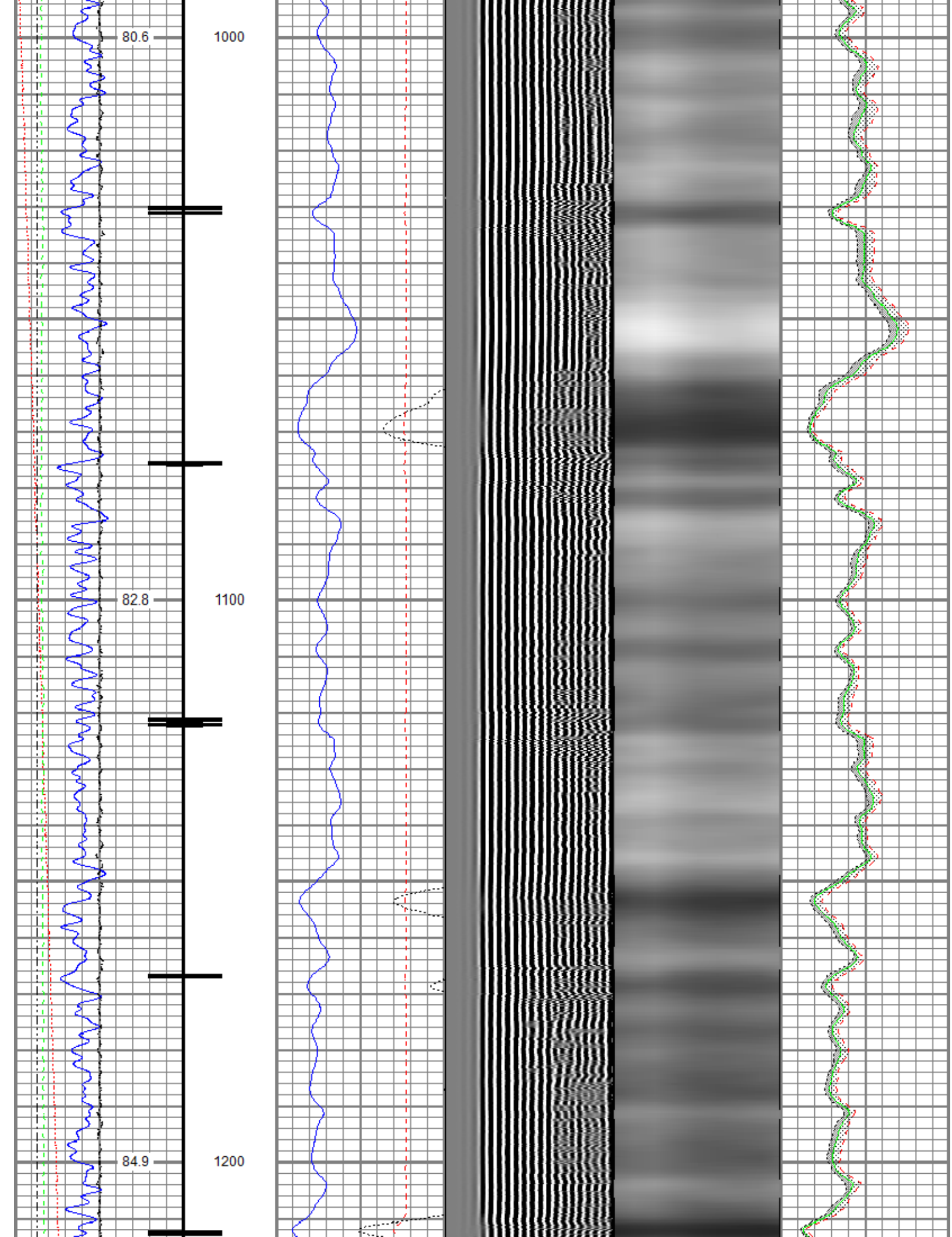


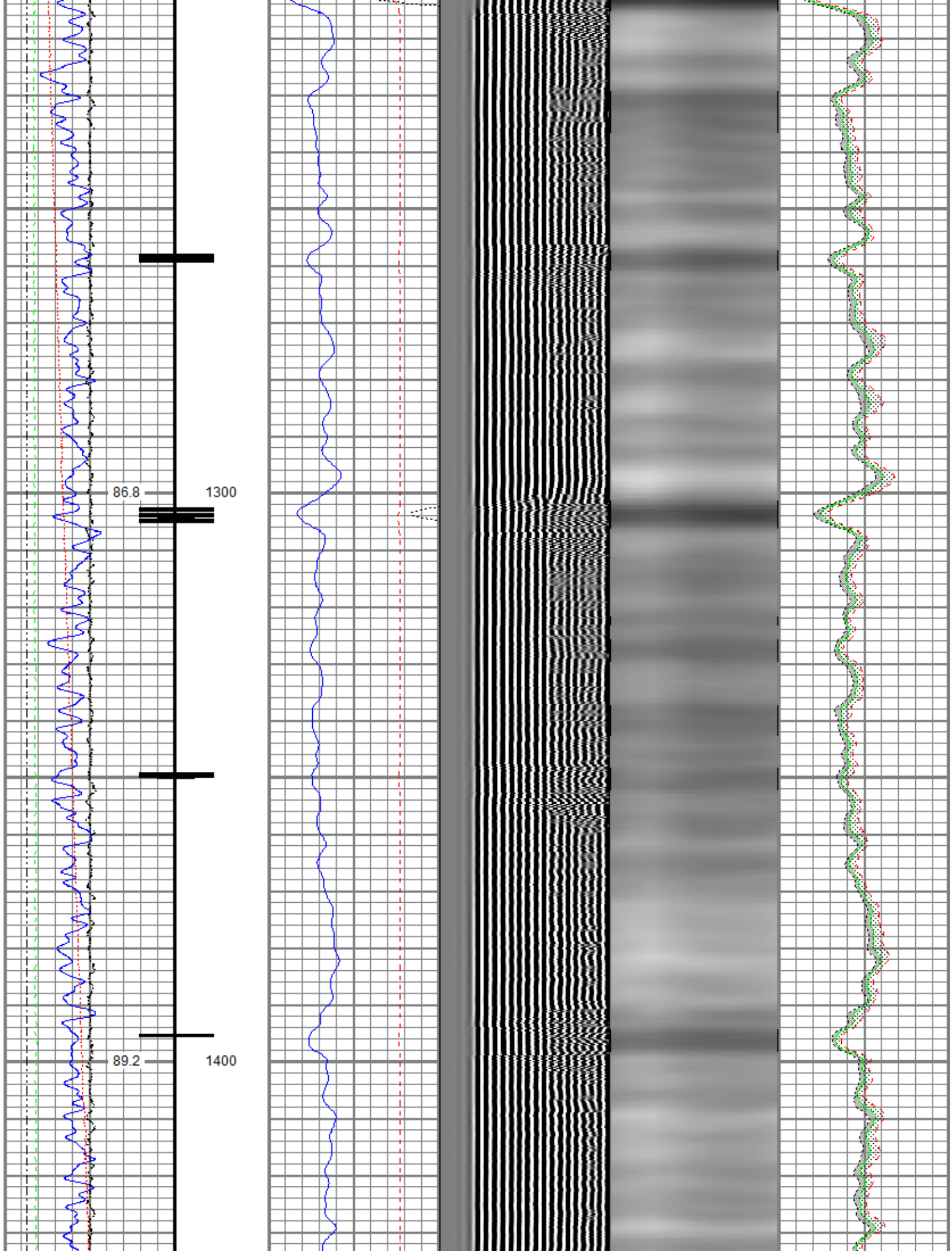


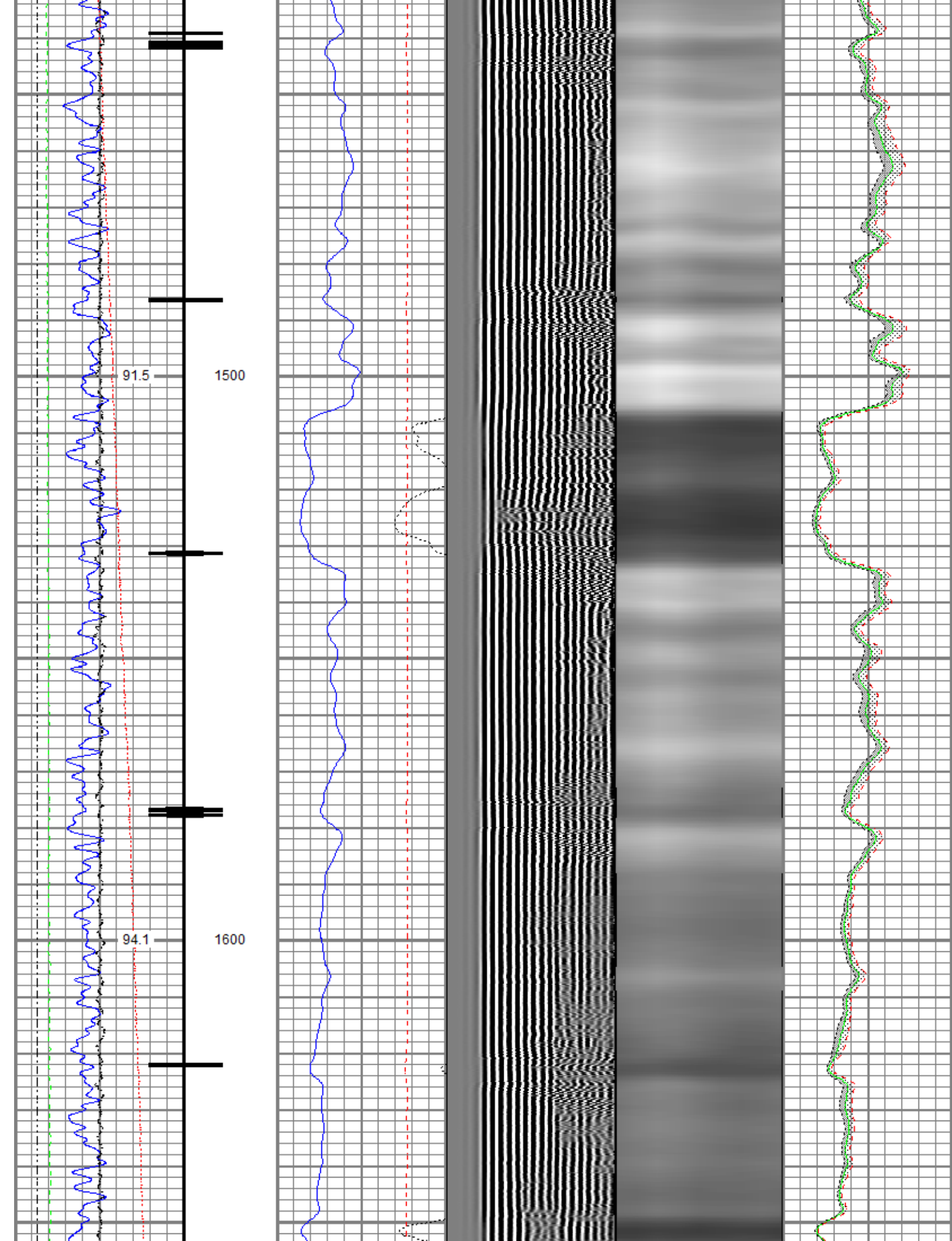


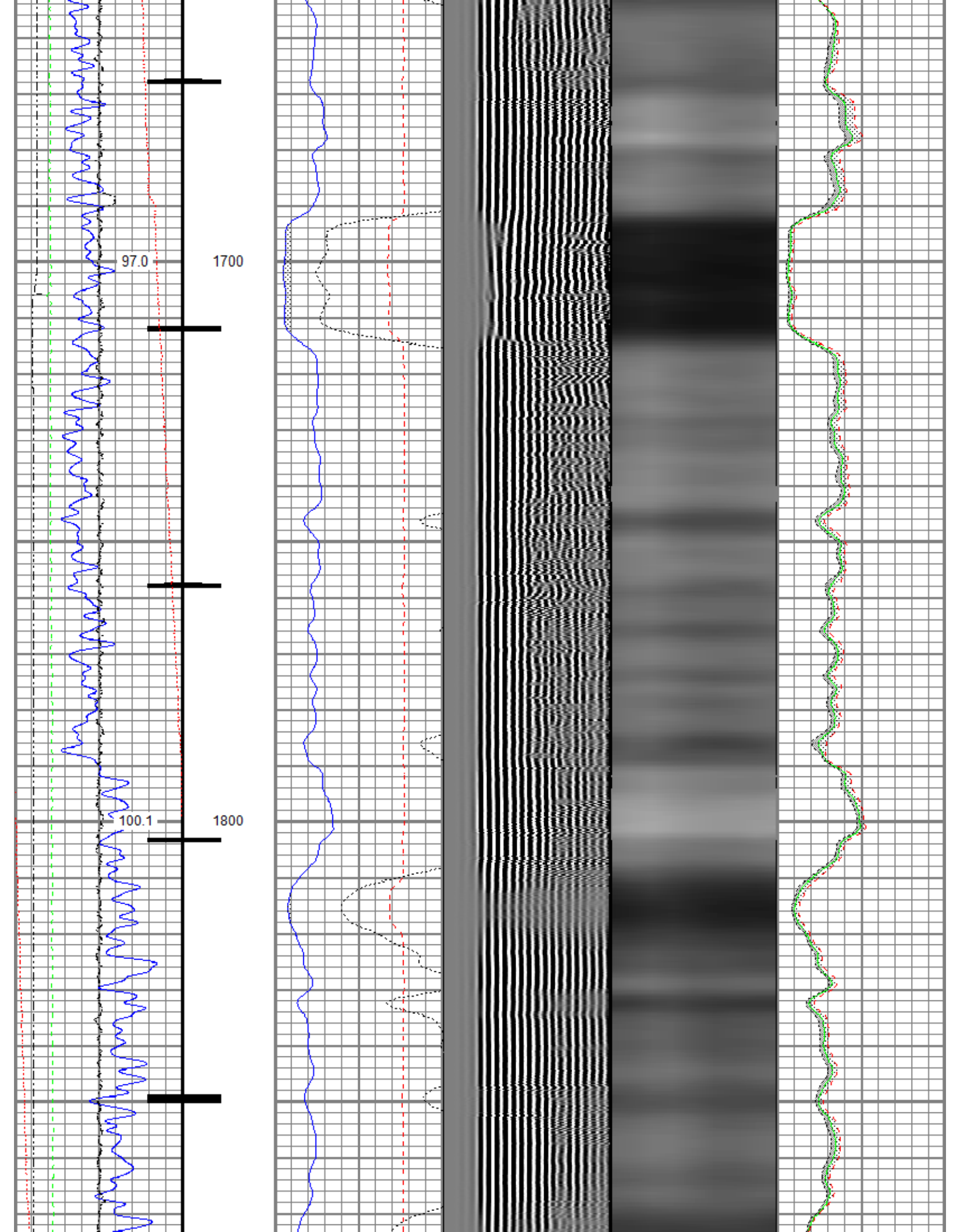


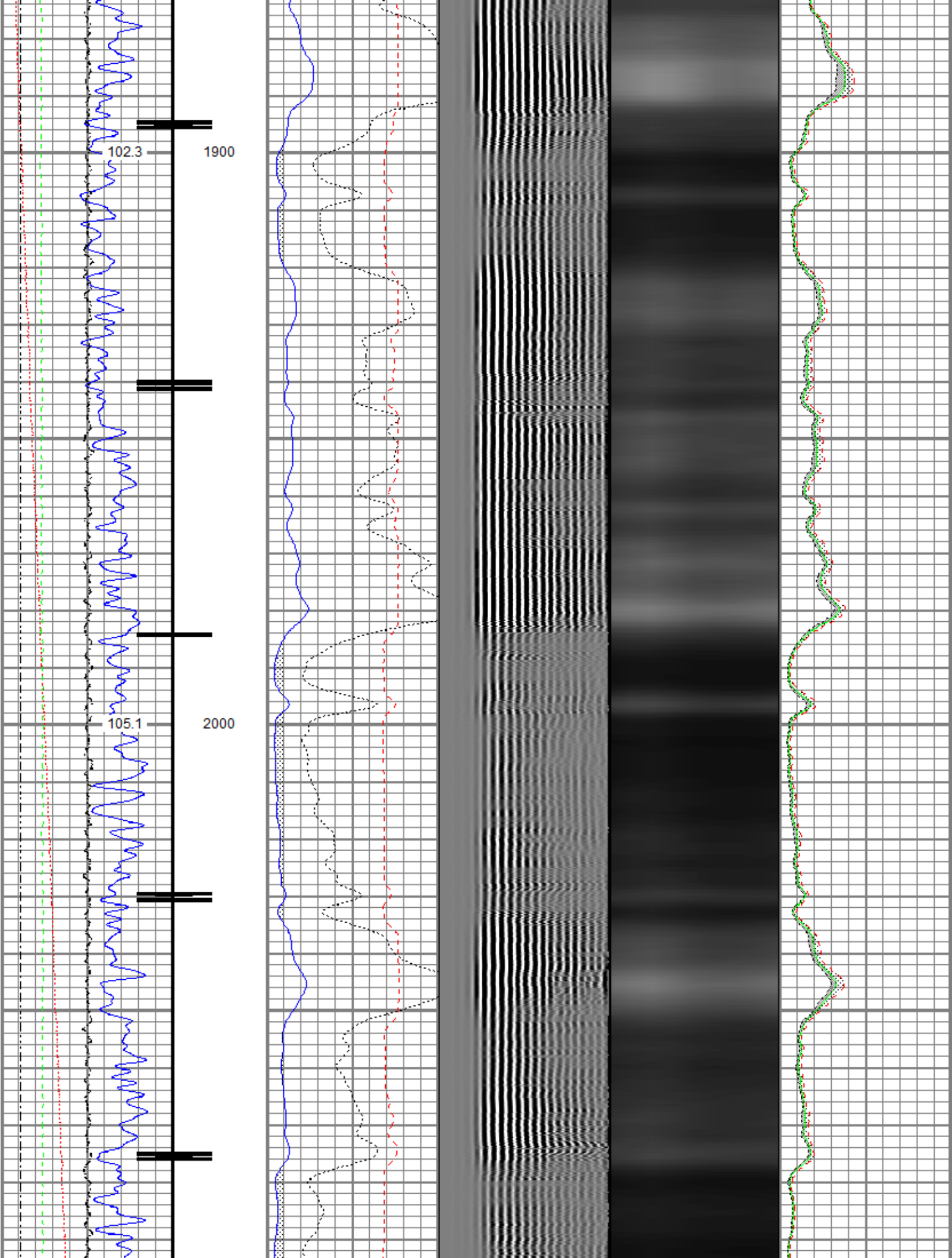


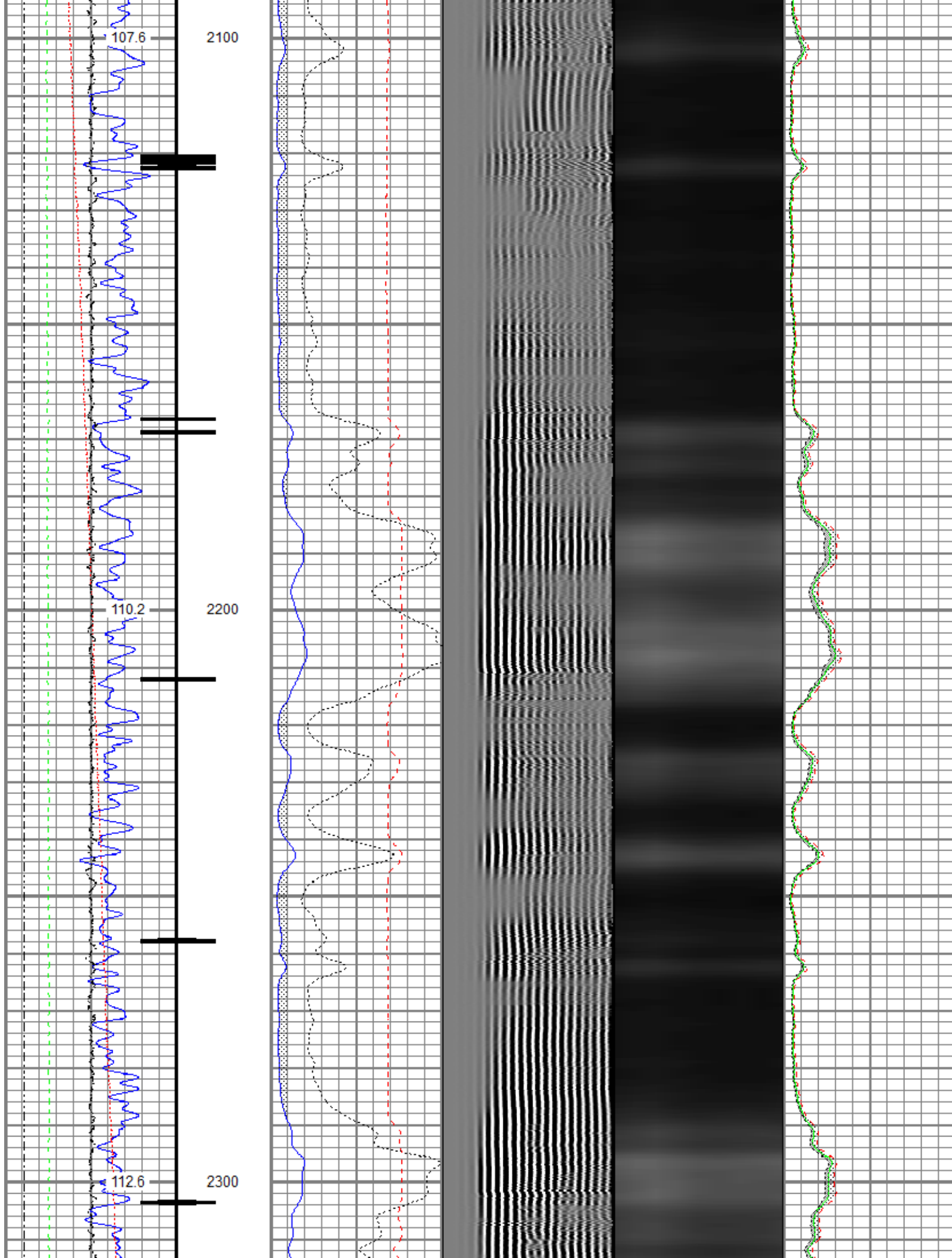


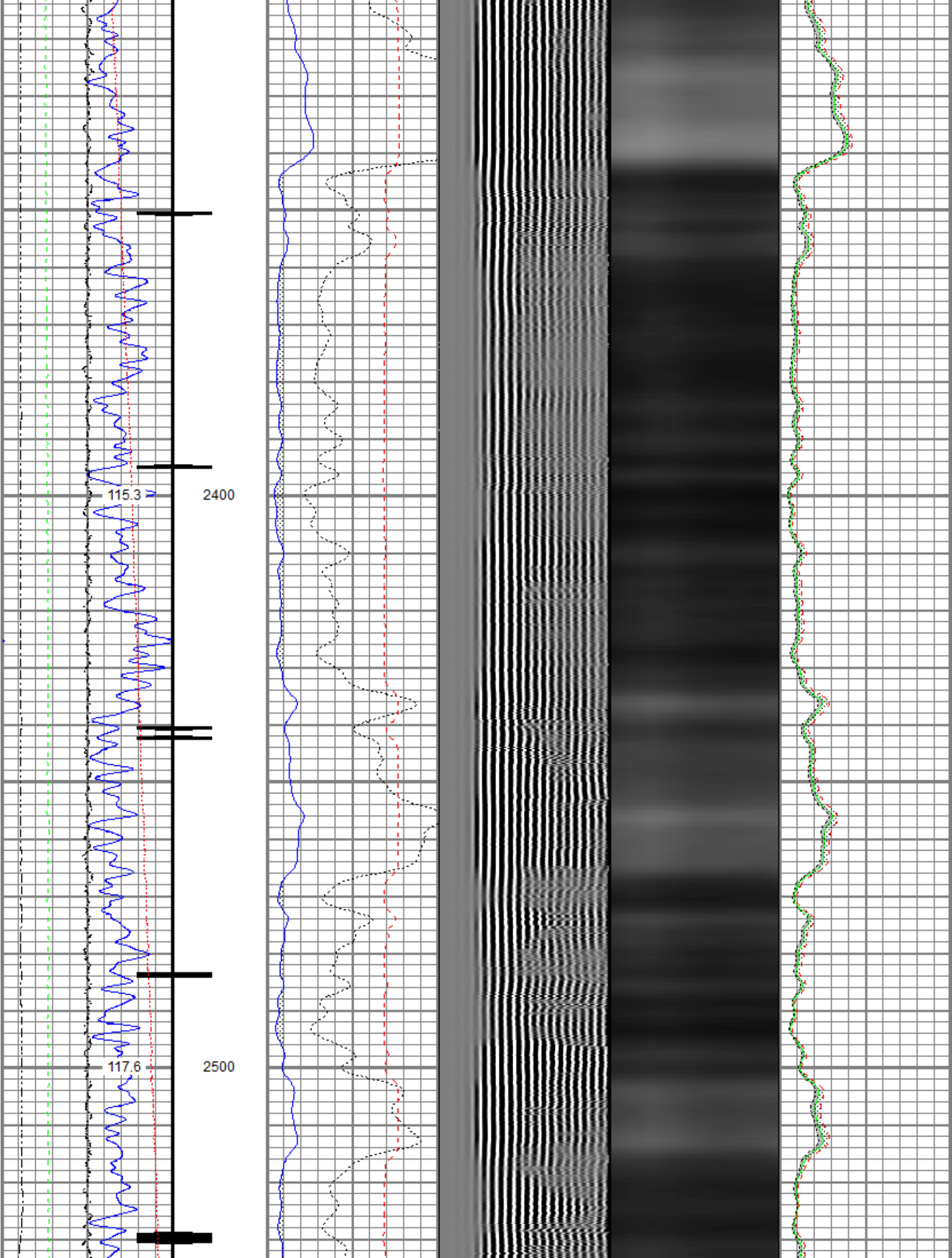


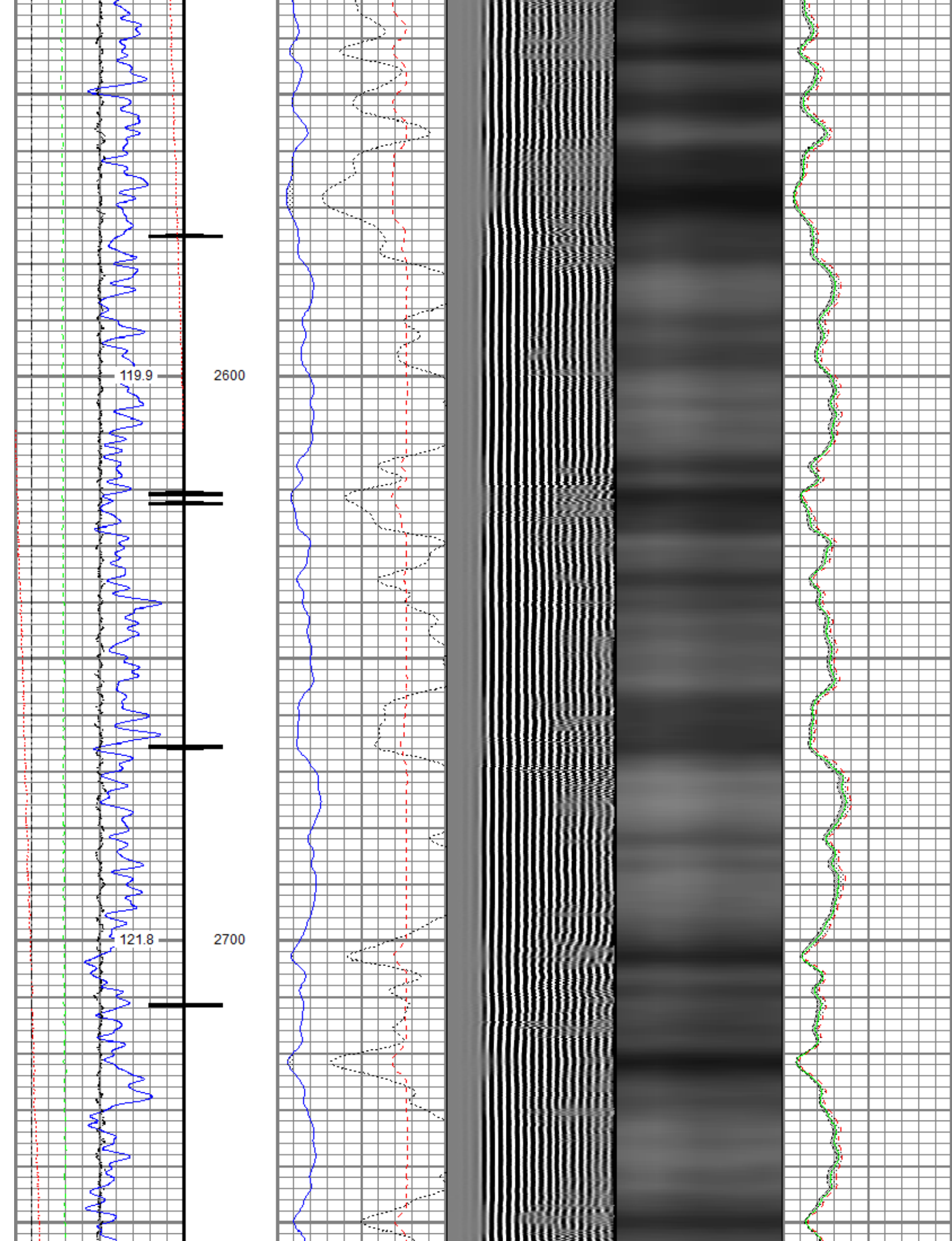


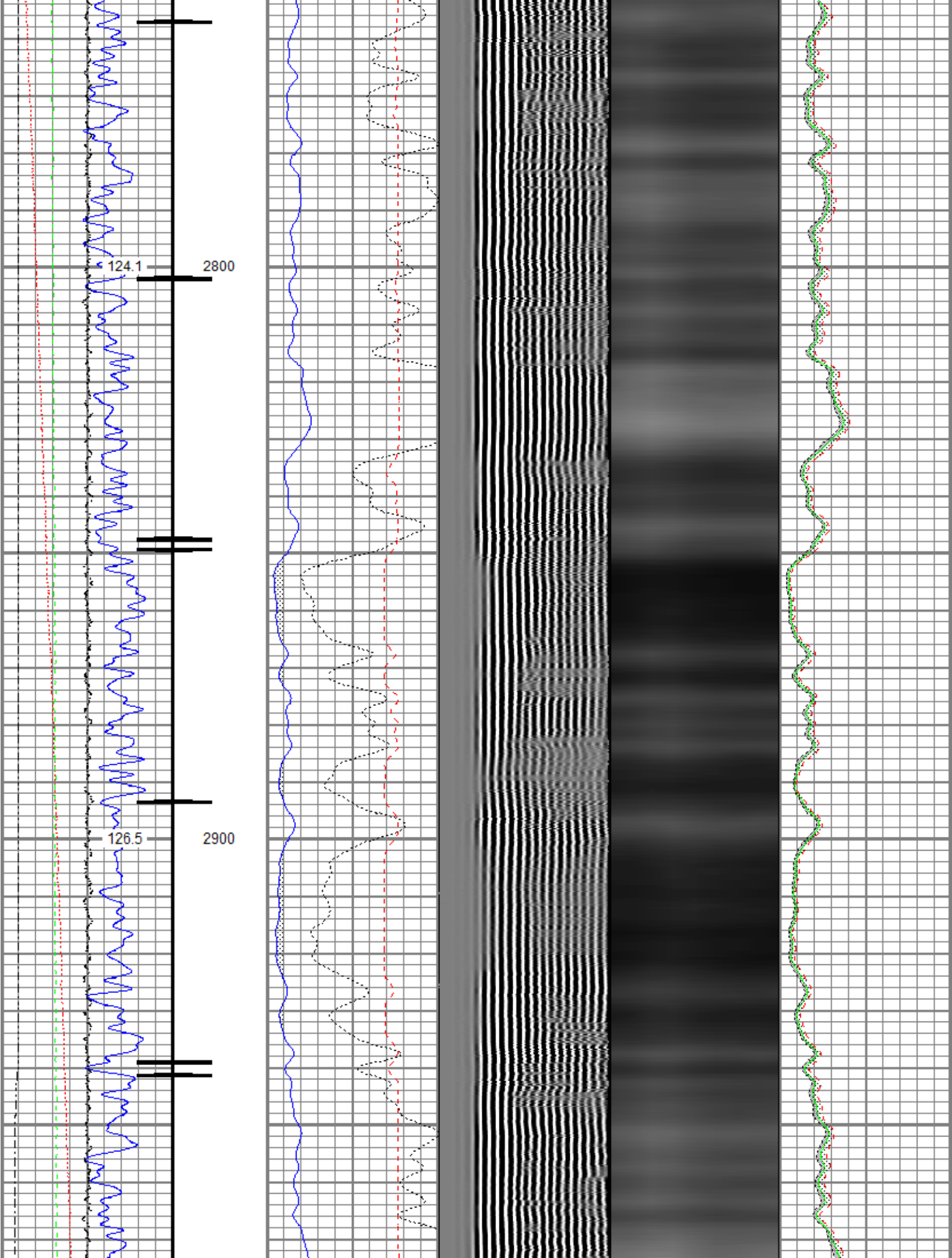


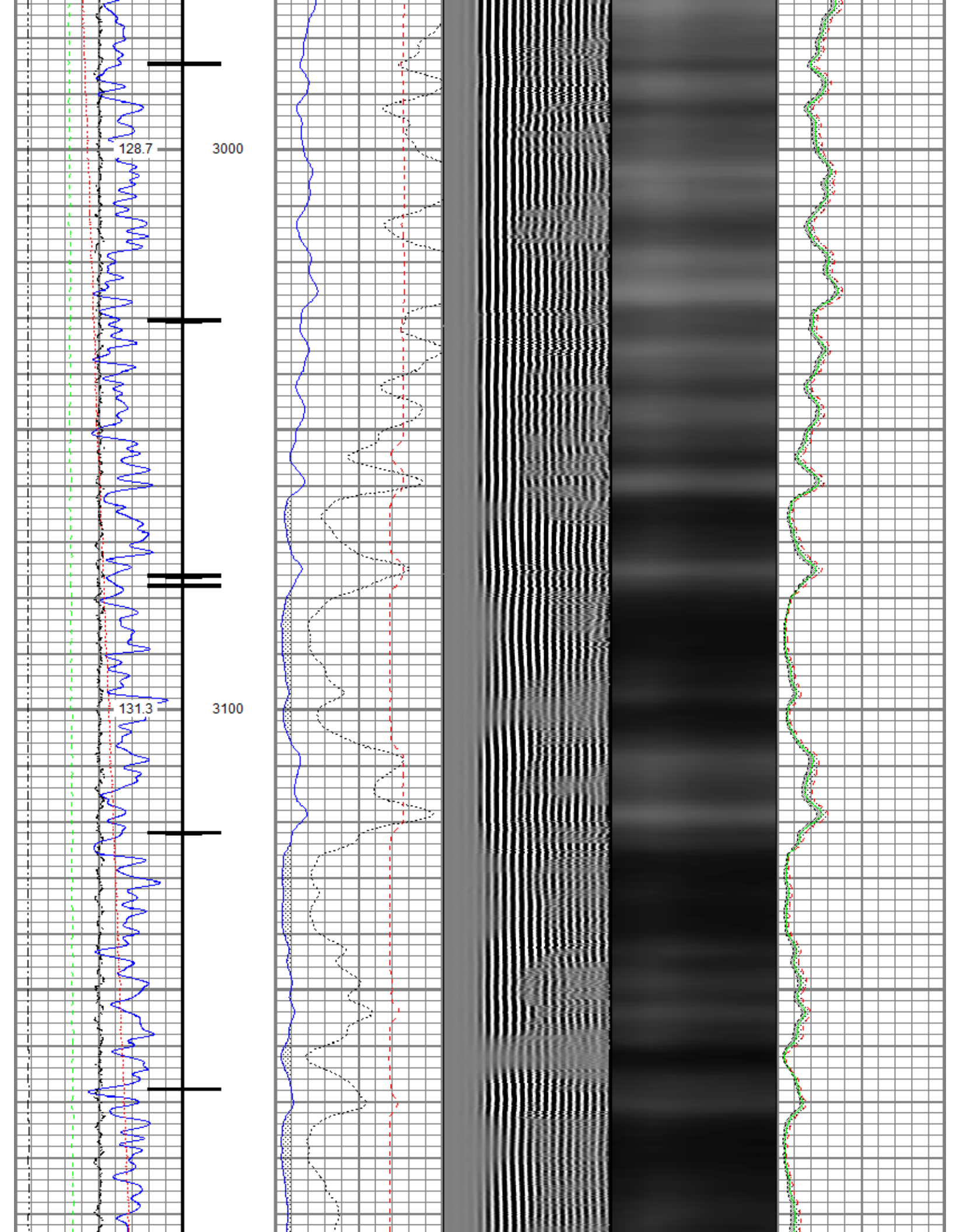


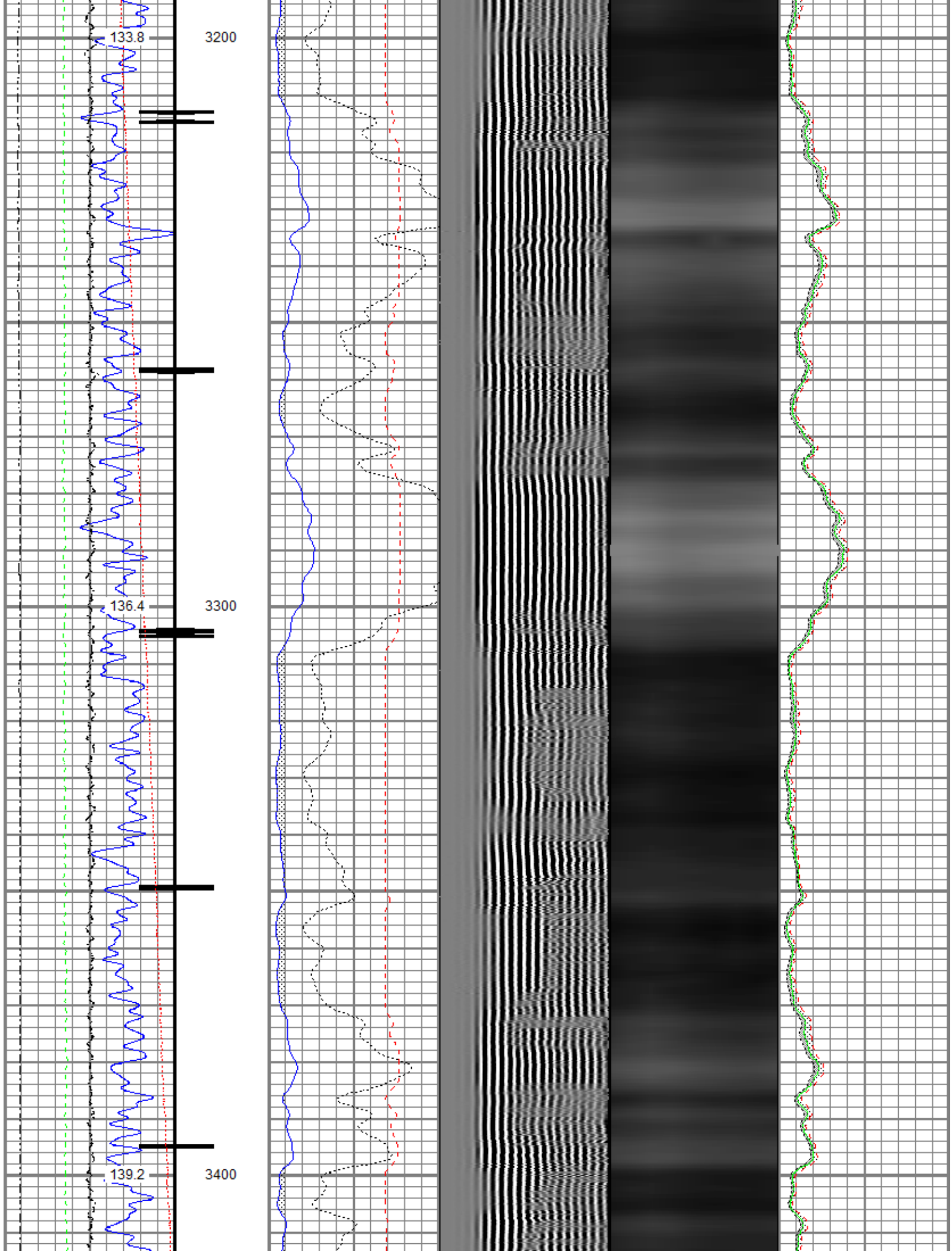


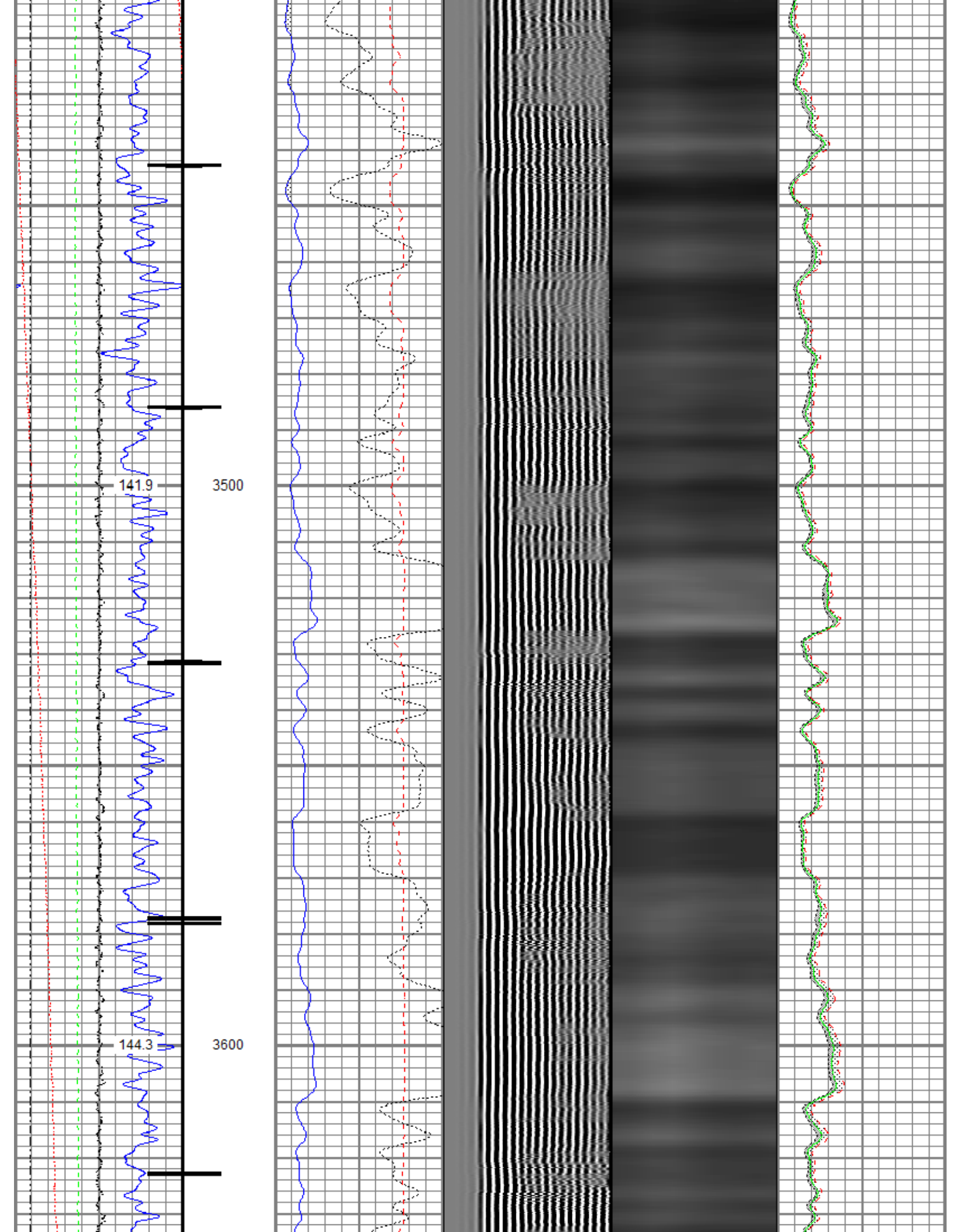


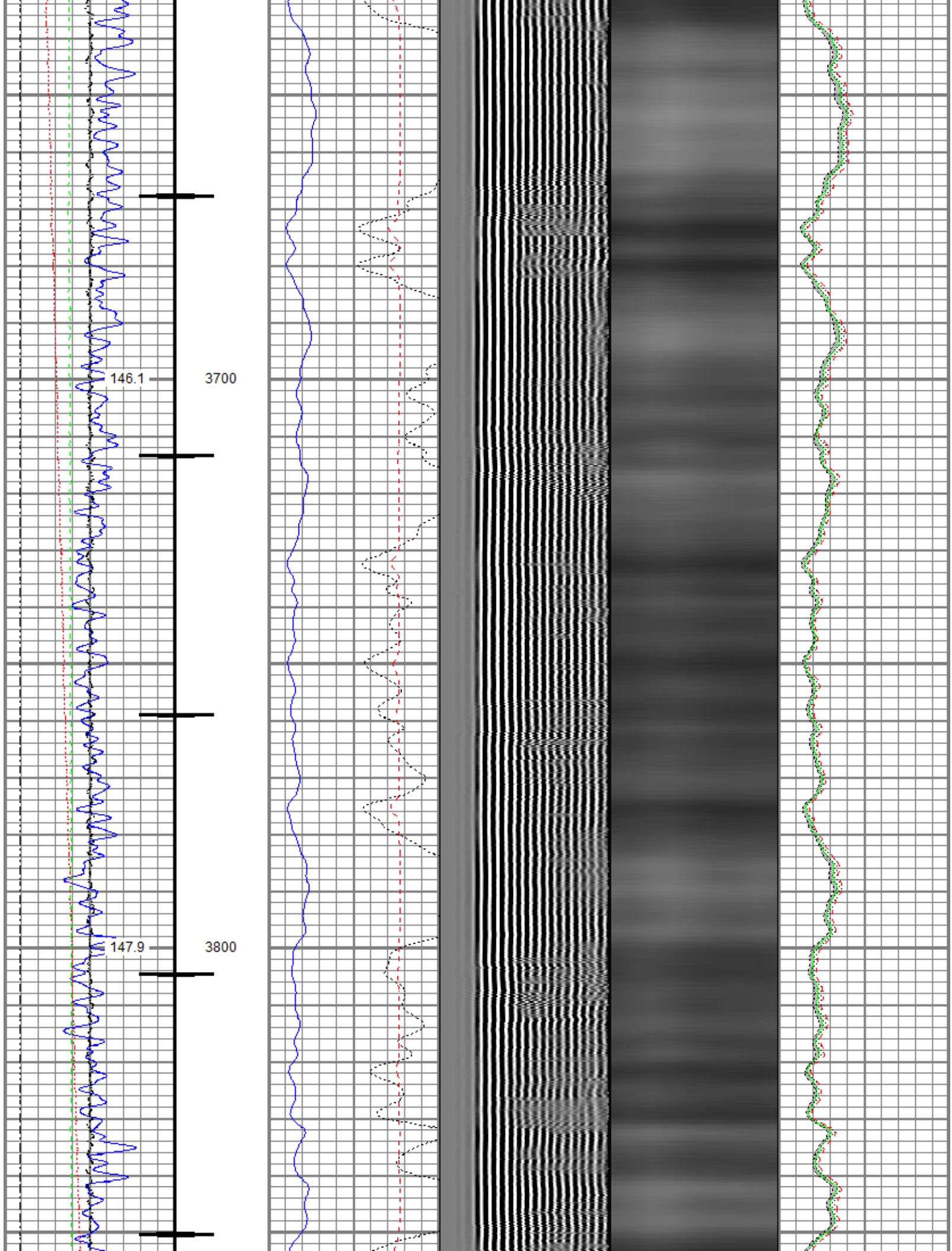


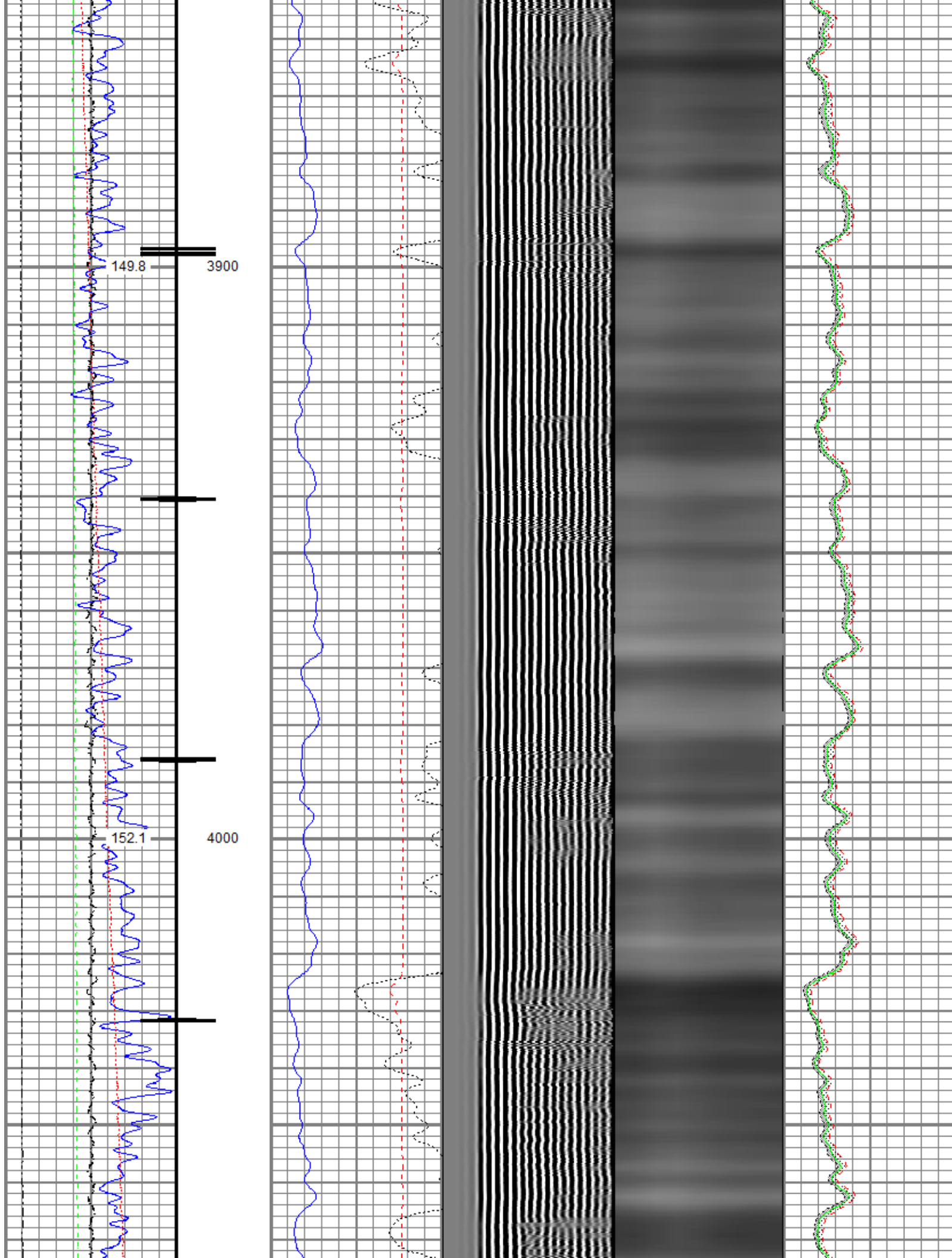


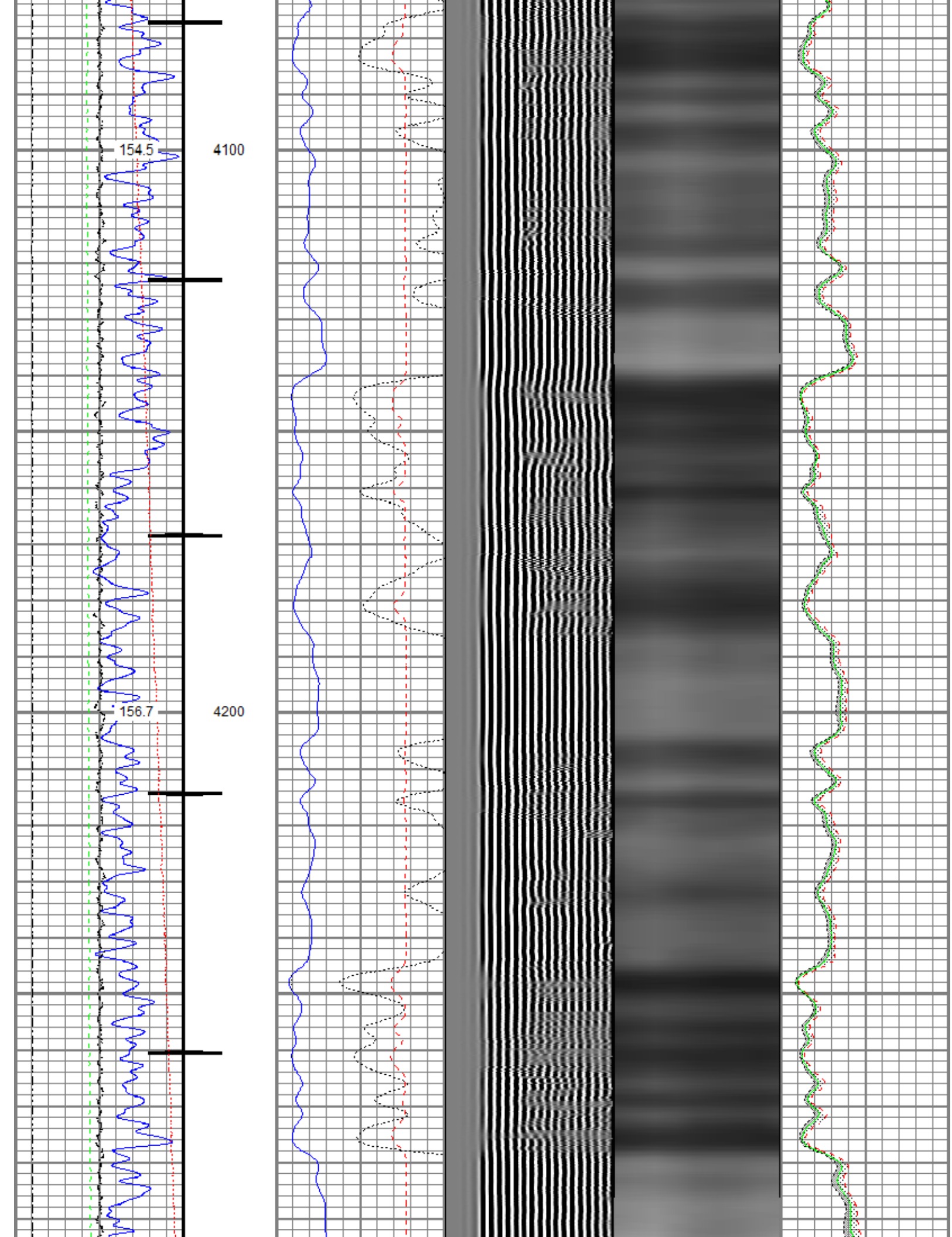


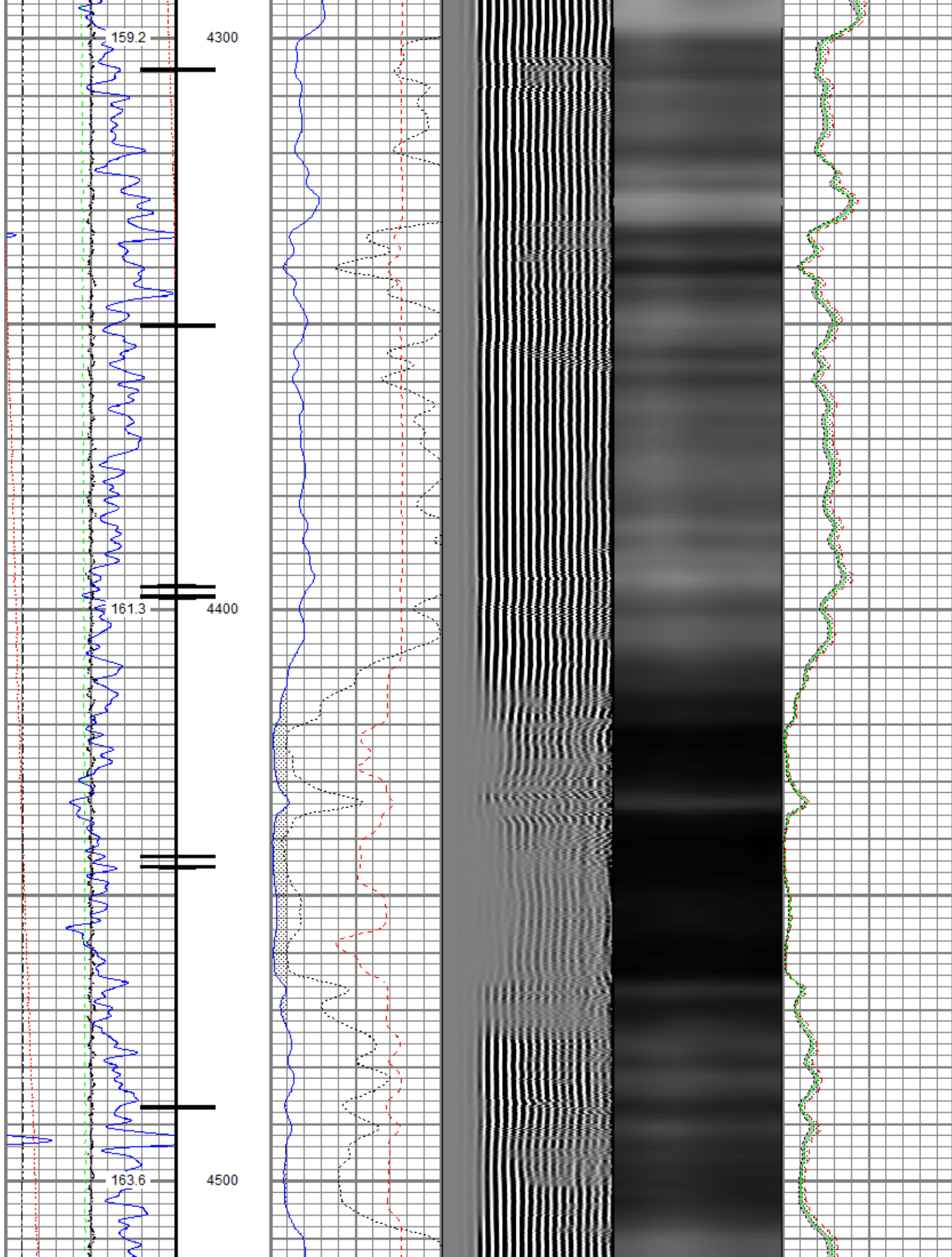


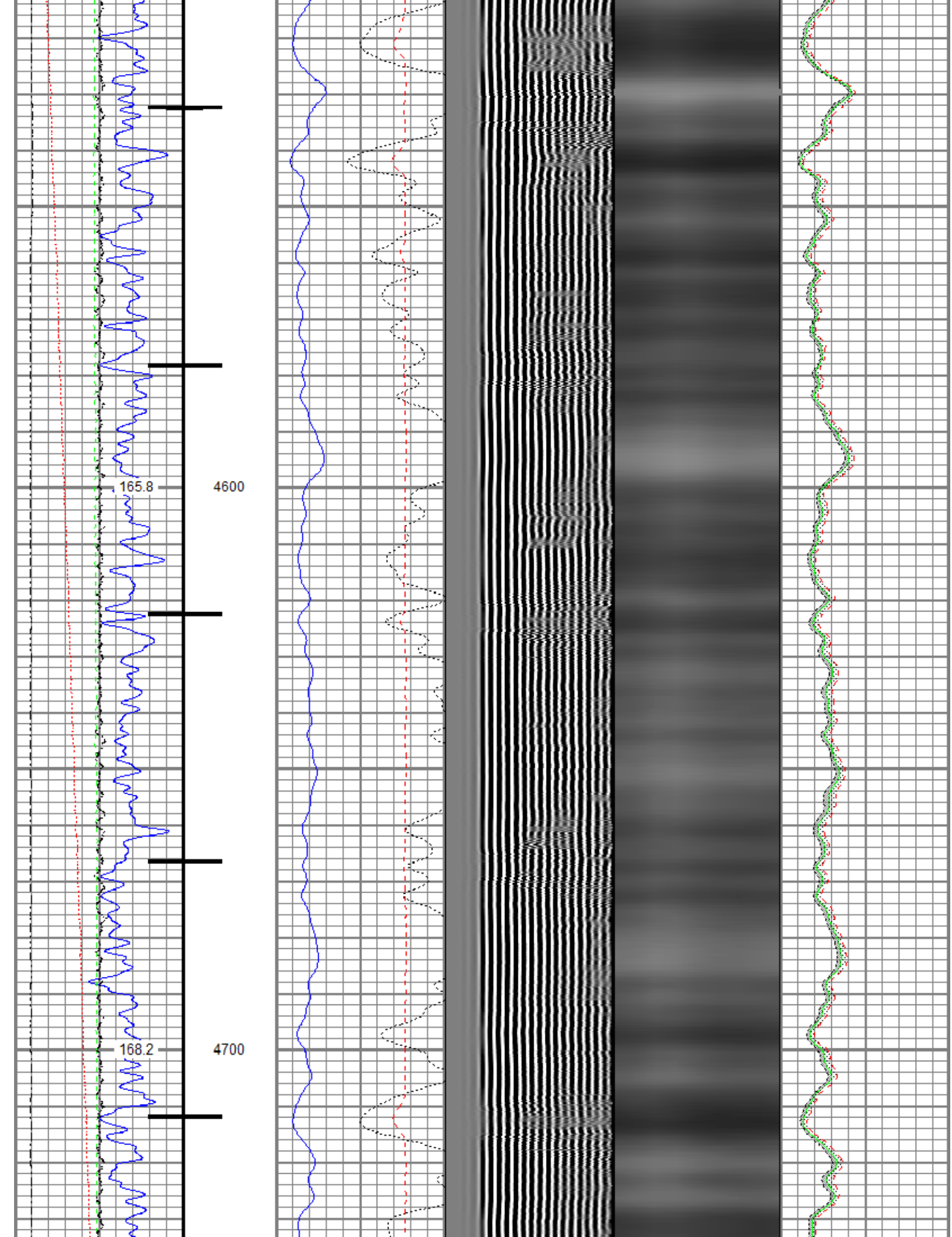


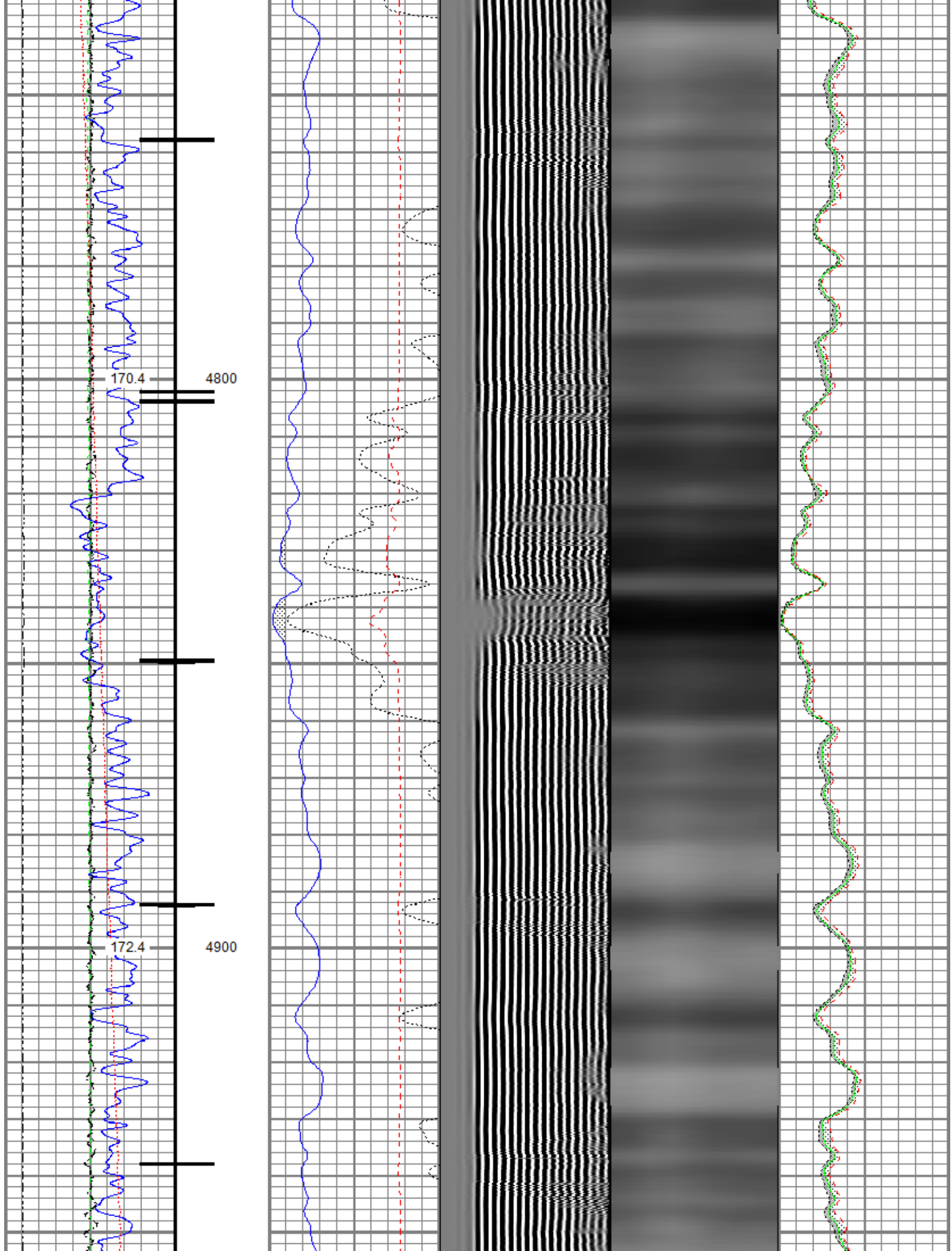


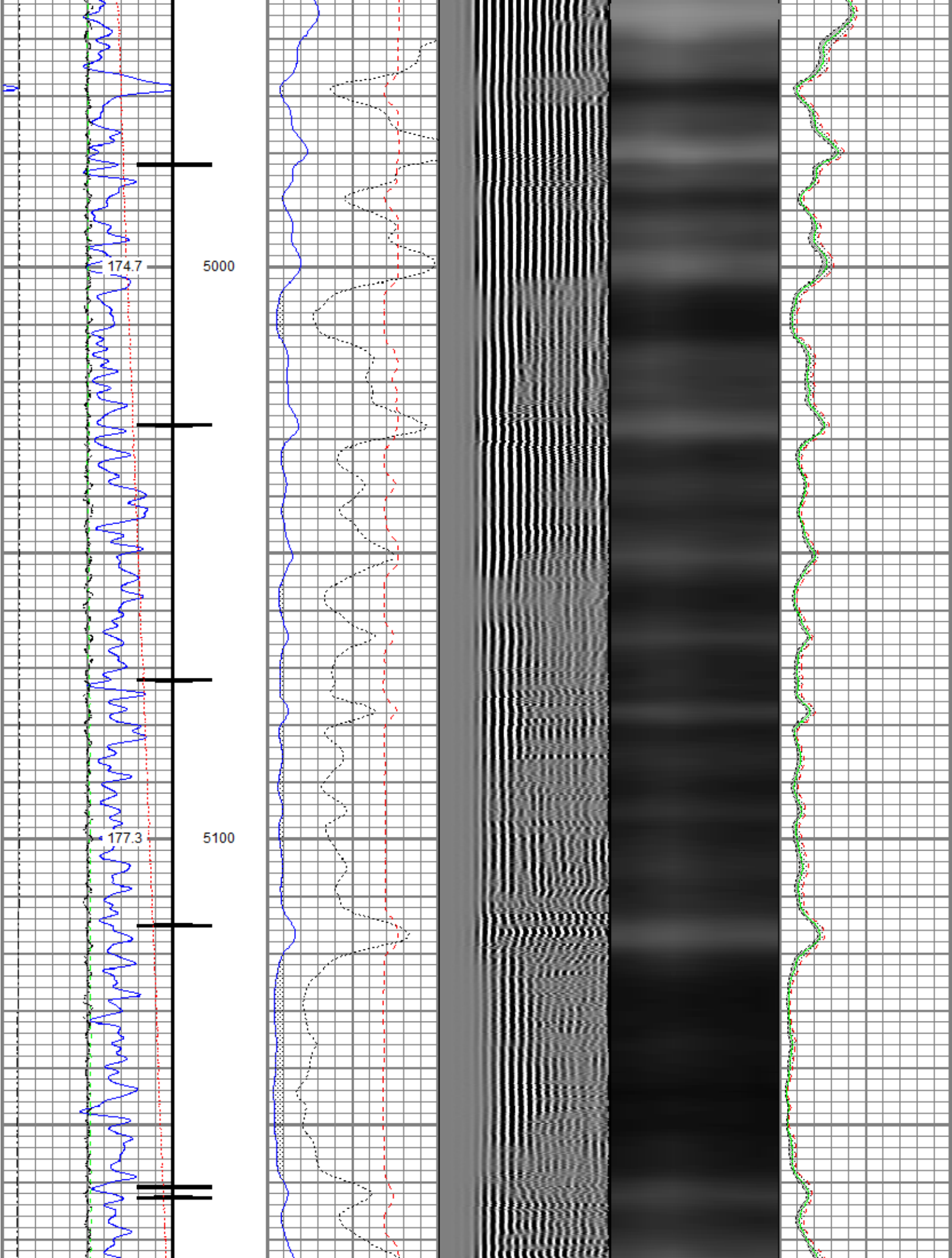


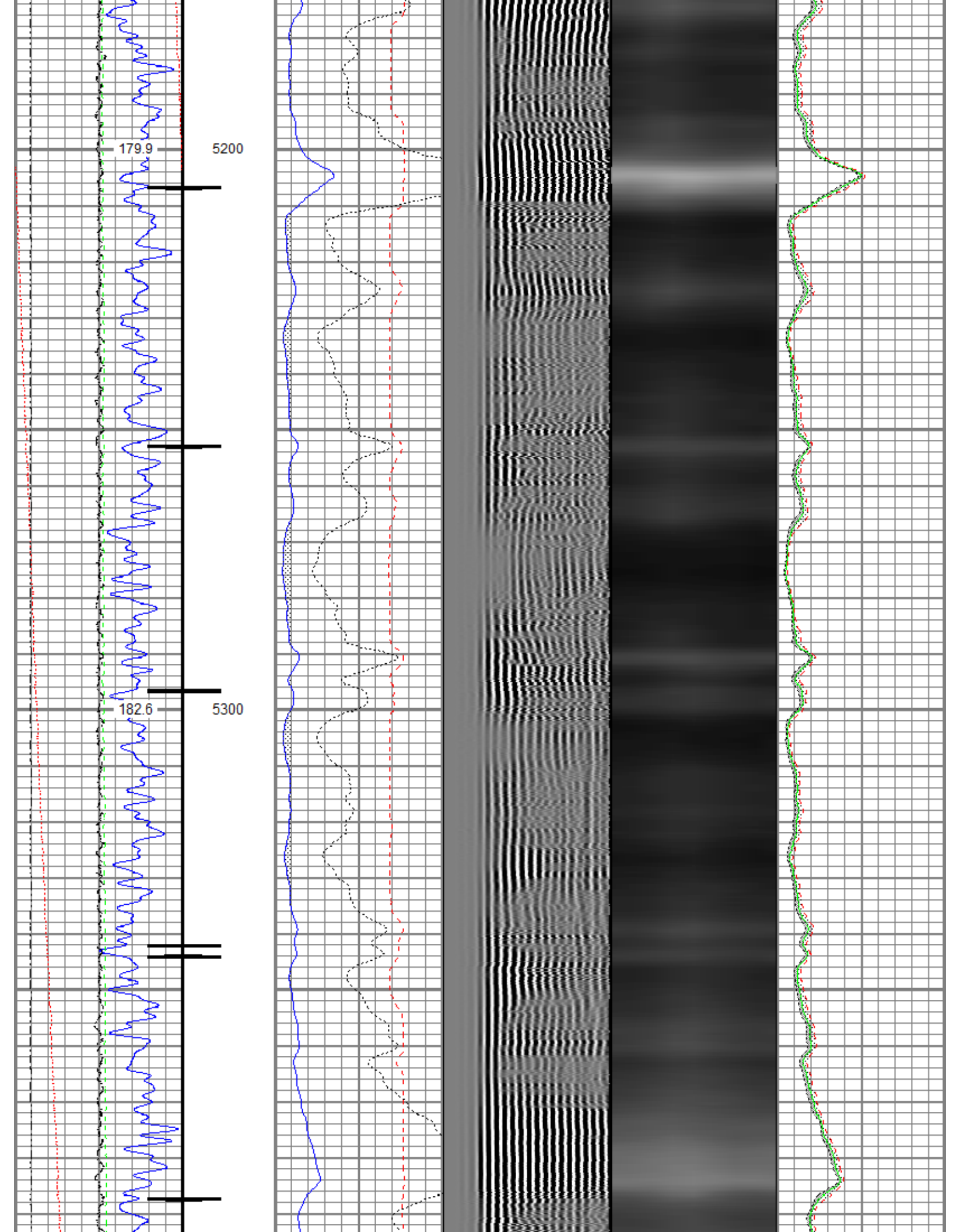


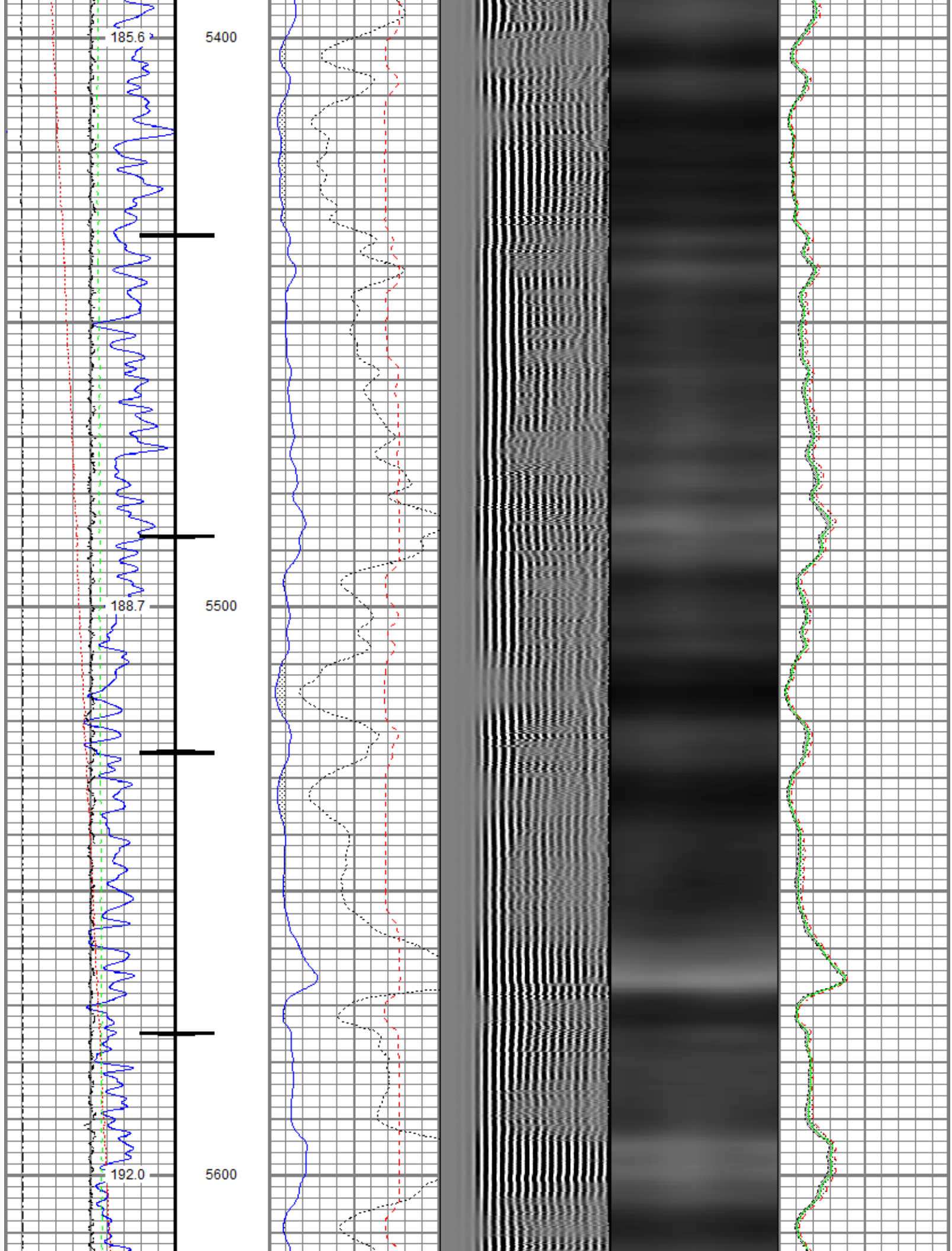


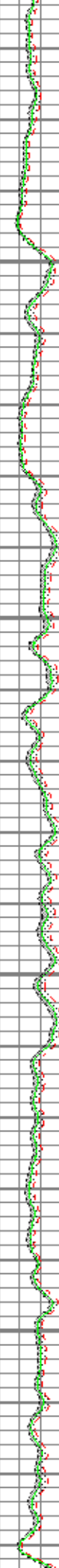
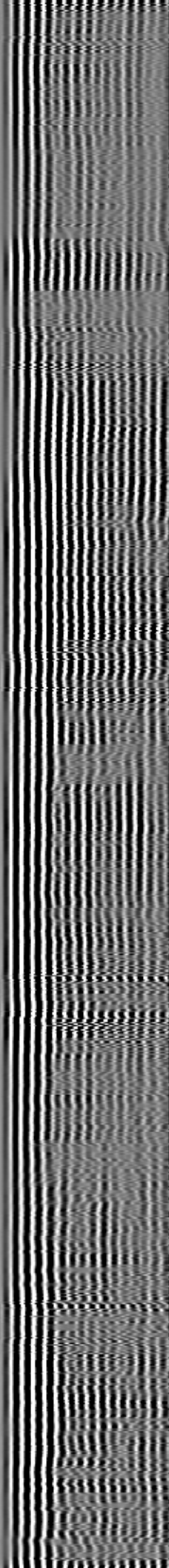
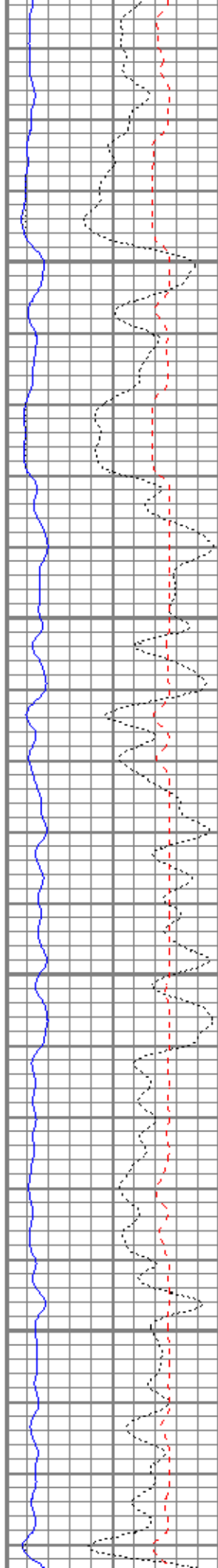
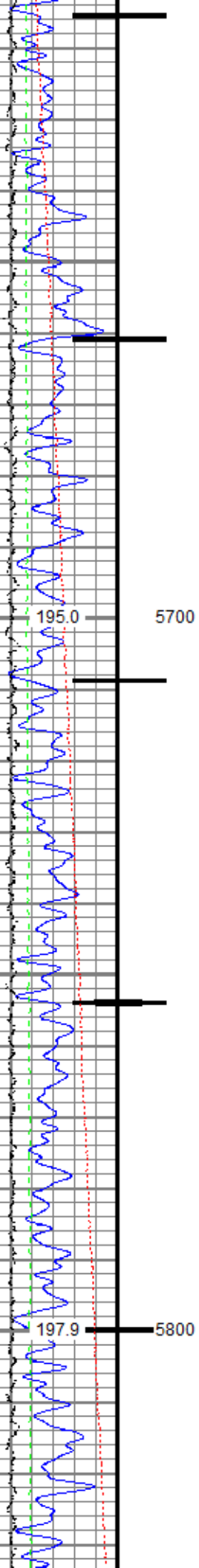


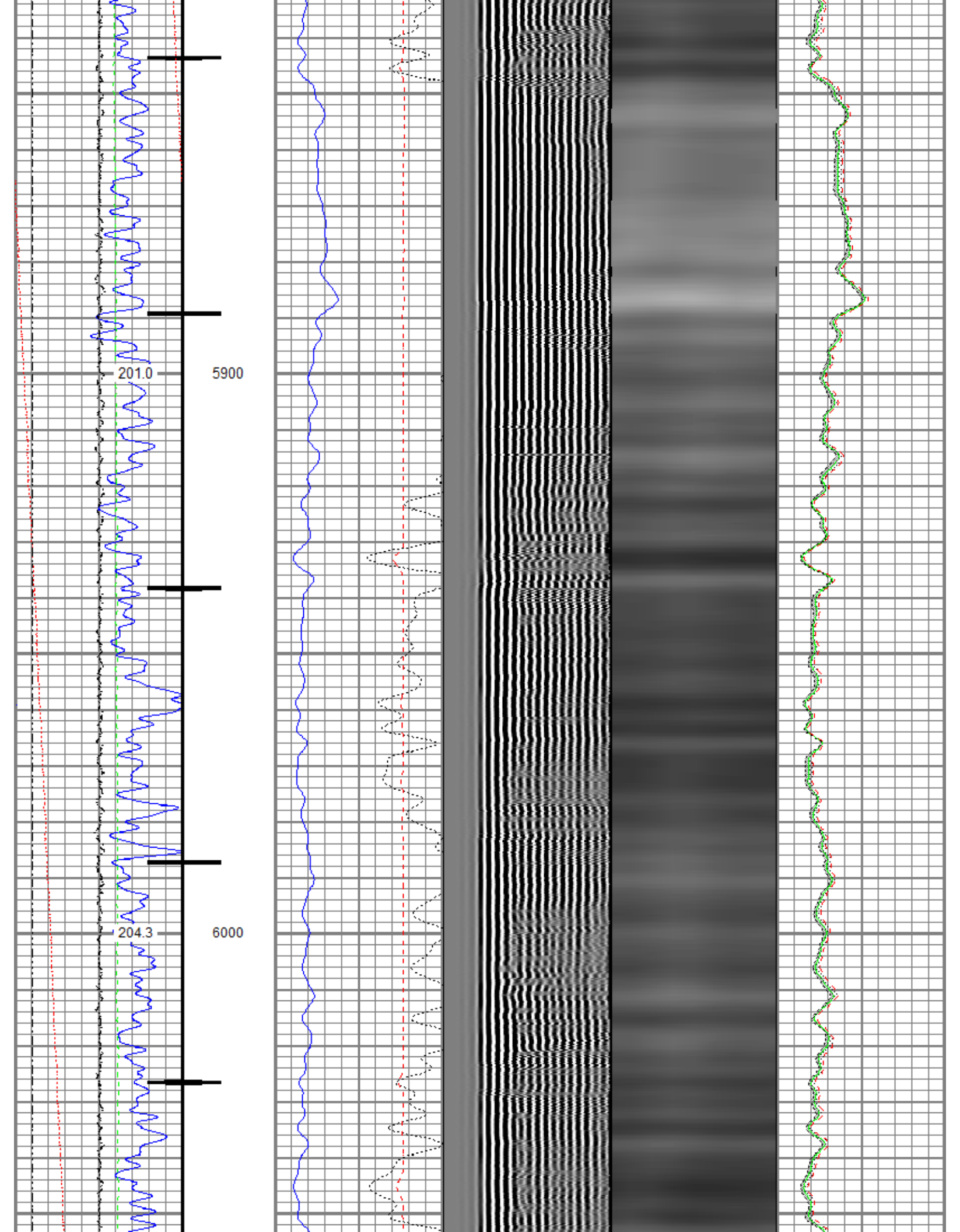


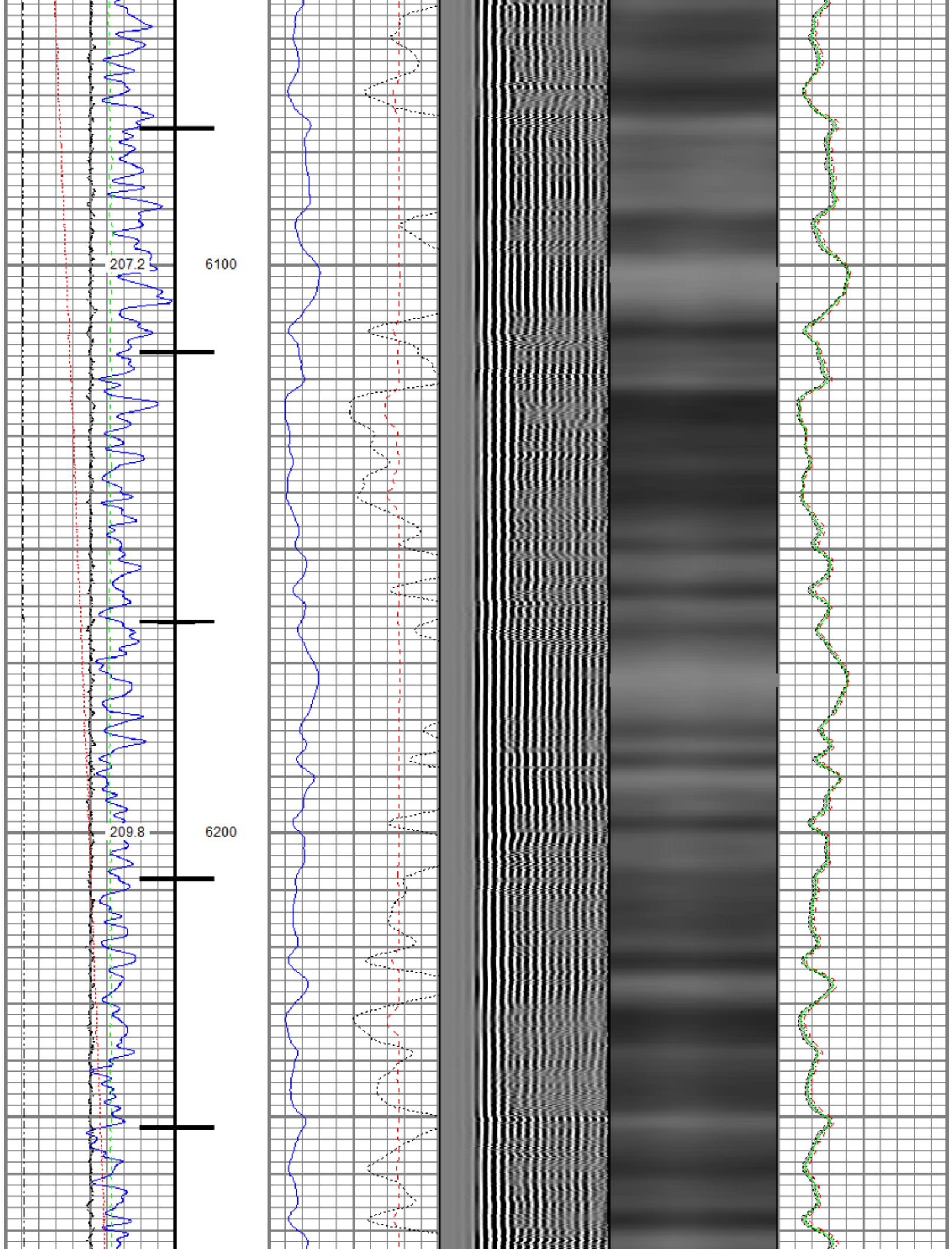












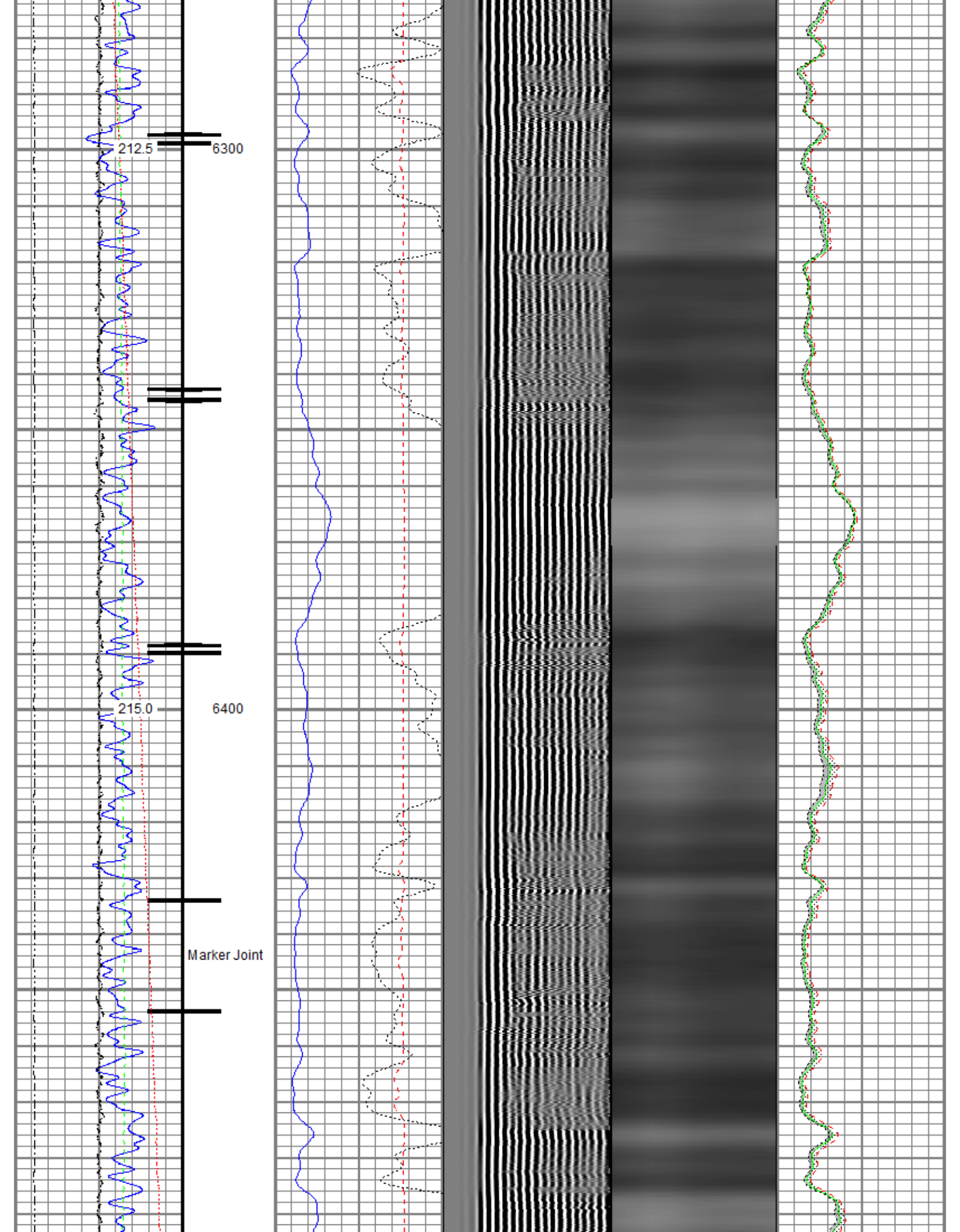
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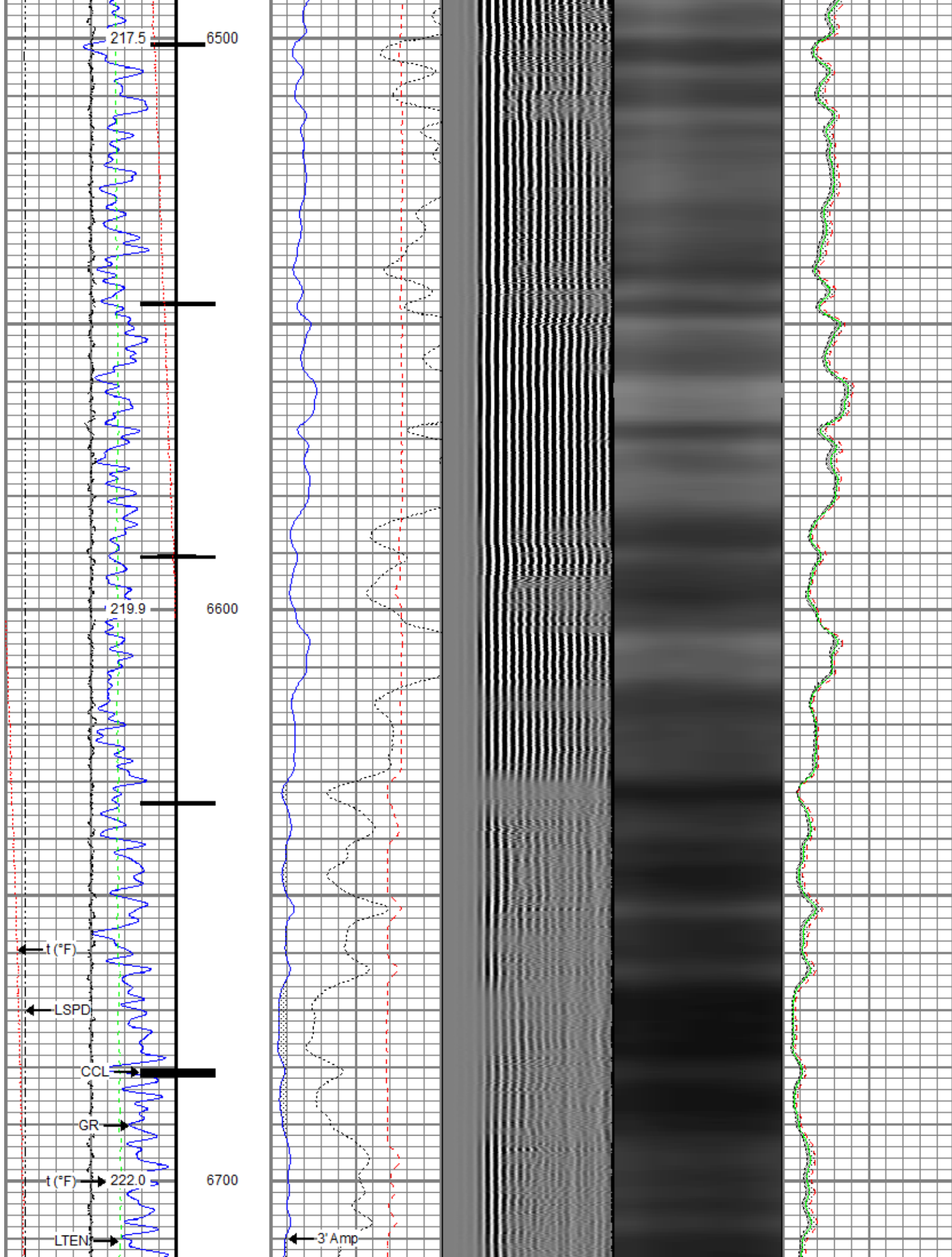
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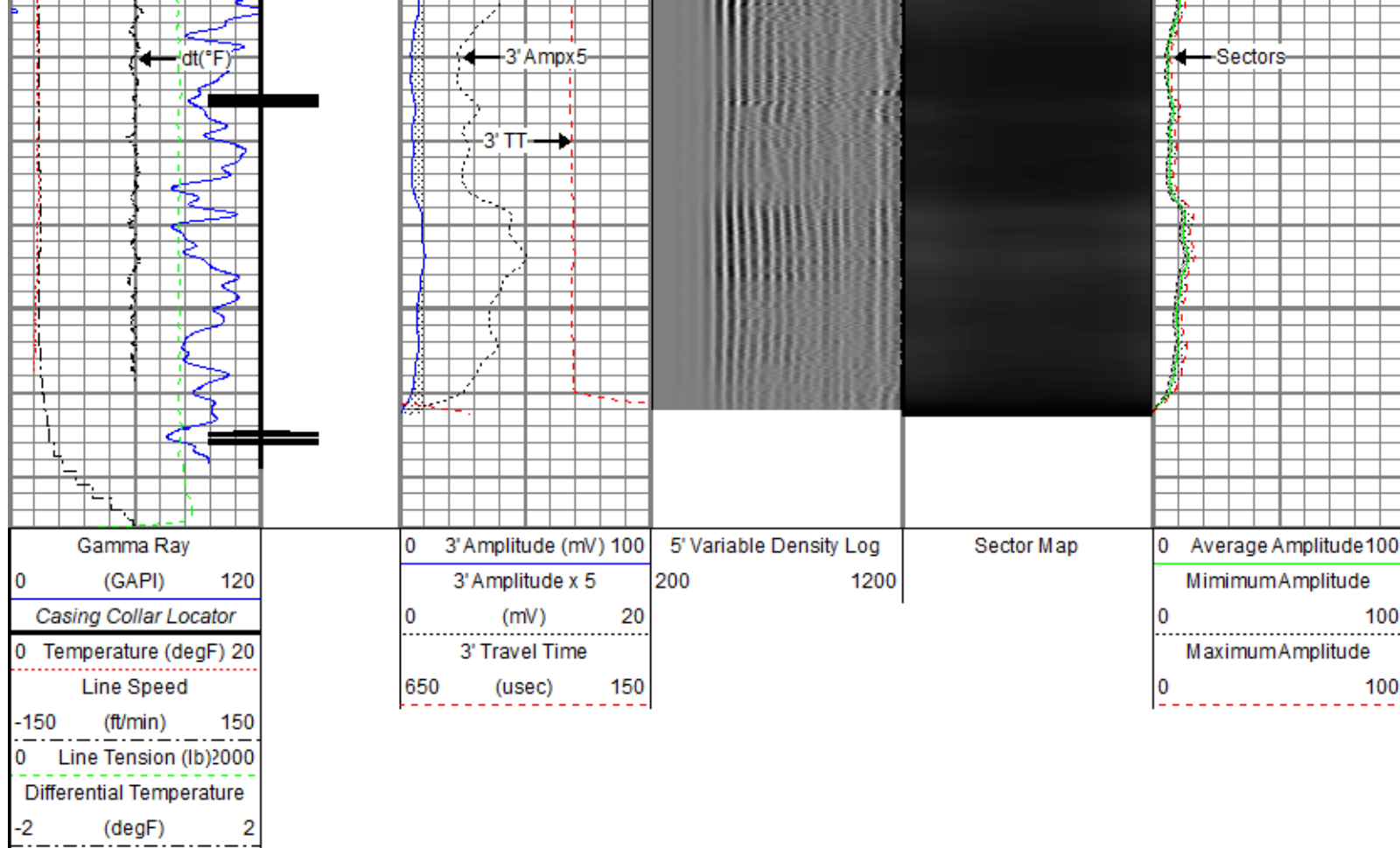
215.0

6400

Marker Joint



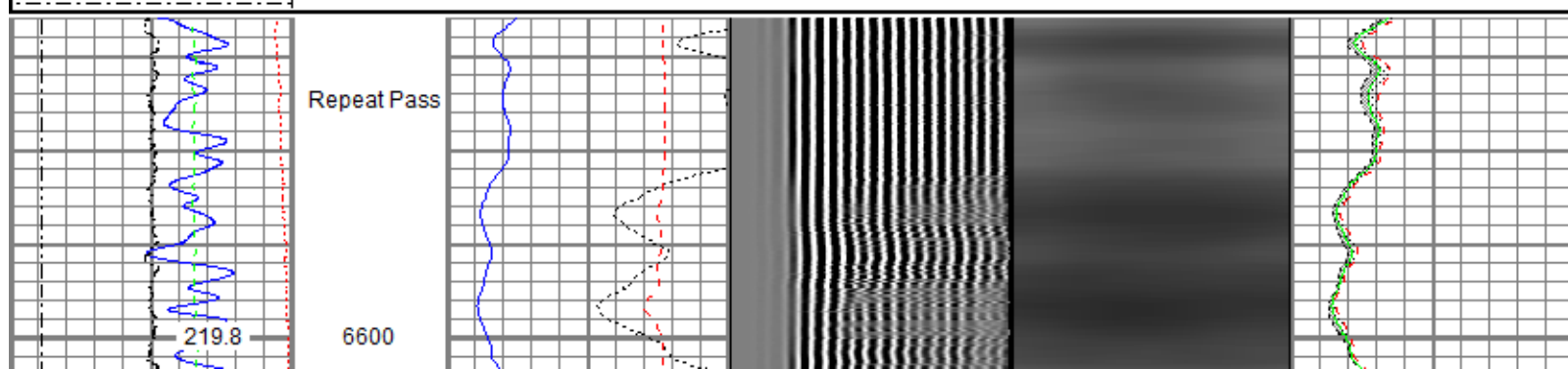
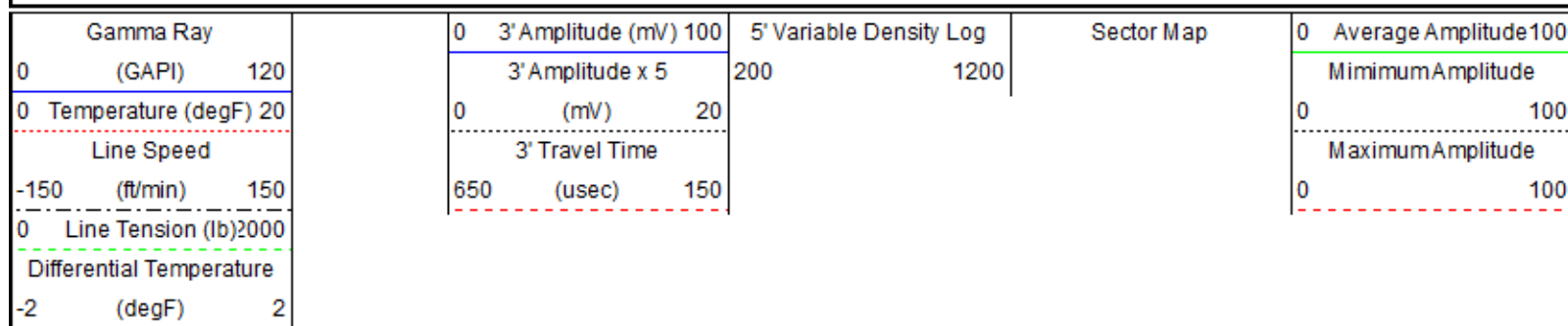


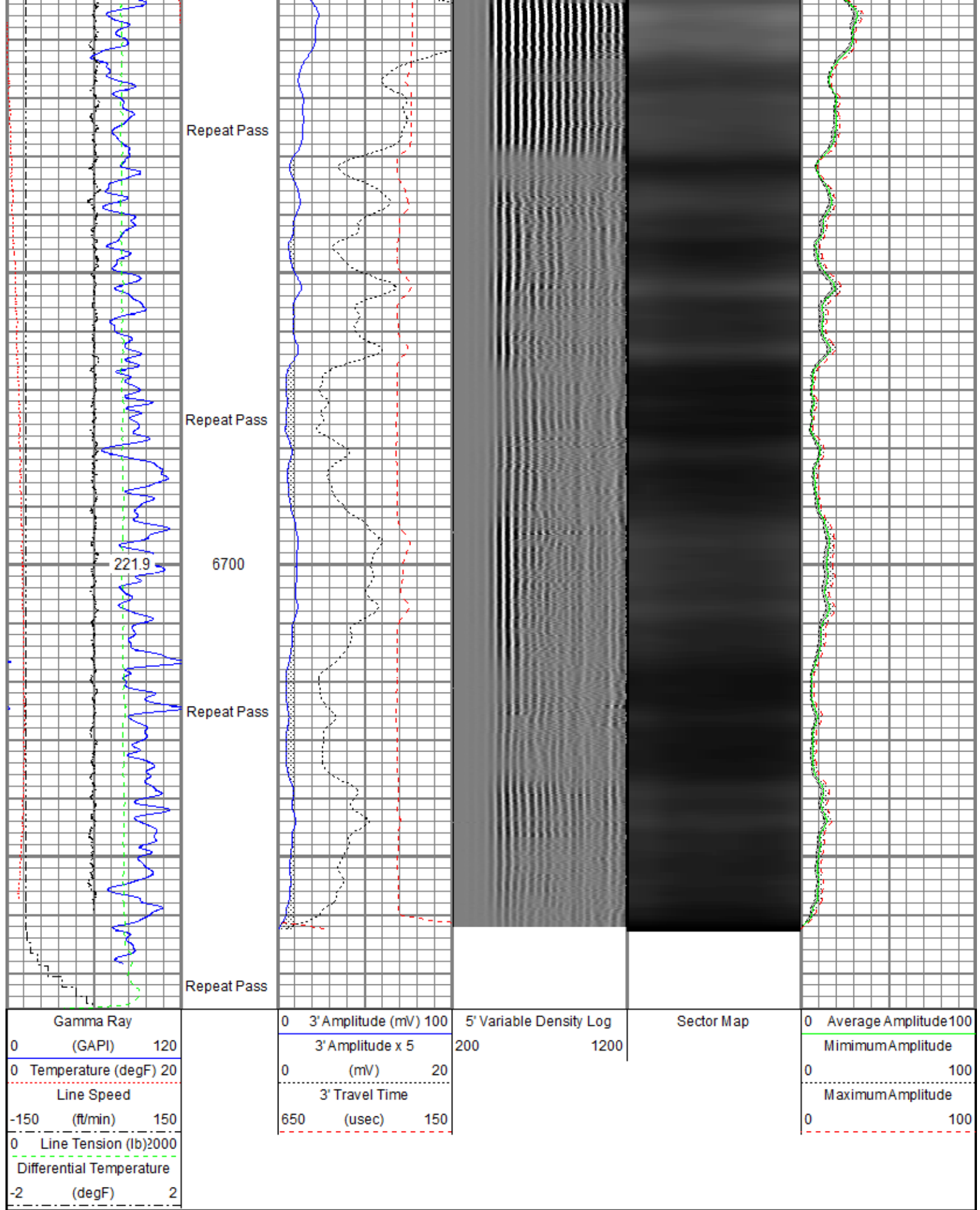


Repeat Pass

Recorded With 2500 PSI Surface Induced Pressure

Database File src energy_troutd 40n-23c-m_rbl_10-03-18\processed_src energy_troutd 40n-23c-m_rbl_10-03-18.db
 Dataset Pathname repeat.2
 Presentation Format ros_radrii
 Dataset Creation Thu Oct 04 14:47:43 2018
 Charted by Depth in Feet scaled 1:240





Database File c:\programdata\warrior\data\src energy_troudt 40n-23c-m_rbl_10-03-18\processed_src energy_troudt 40n-23c-m_rbl_10-03-18.d
 Dataset Pathname main.1
 Dataset Creation Thu Oct 04 14:39:34 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 (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.854	0.800	71.921	83.409	0.715
CAL	0.717	0.717				
5'	0.000	0.824	0.800	71.921	86.296	0.783
SUM						
S1	0.001	0.834	0.000	100.000	120.045	-0.167
S2	0.001	0.813	0.000	100.000	123.150	-0.169
S3	0.001	0.807	0.000	100.000	124.083	-0.130
S4	0.001	0.823	0.000	100.000	121.724	-0.124
S5	0.001	0.876	0.000	100.000	114.241	-0.120
S6	0.001	0.936	0.000	100.000	106.937	-0.117
S7	0.001	0.933	0.000	100.000	107.308	-0.102
S8	0.001	0.889	0.000	100.000	112.587	-0.118

Internal Reference Calibration, performed (Not Performed):

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

Air Zero Calibration, performed Wed Oct 03 16:19:13 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 40N-23C-M
Field	Wattenberg
County	Weld
State	Colorado