



Date	28-MAR-2018						
Run Number	Four						
Depth Driller	13297 FT						
Depth Logger	6936 FT						
Bottom Logged Interval	6920 FT						
Top Log Interval	Surface						
Open Hole Size	---						
Type Fluid	Water						
Density / Viscosity	8.34 lb/gal						
Max. Recorded Temp.	220°F						
E estimated Cement Top	See Log						
Time Well Ready	ROA						
Time Logger on Bottom	0815						
E equipment Number	HD-324						
Location	Fort Lupton, CO						
Recorded By	M. Hayes						
Witnessed By	John McCarthy						
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	J-55	Surface	1879 FT		
Intermediate #1	5 1/2	17	HCP-110	Surface	13287 FT		
Intermediate #2							
Liner							

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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

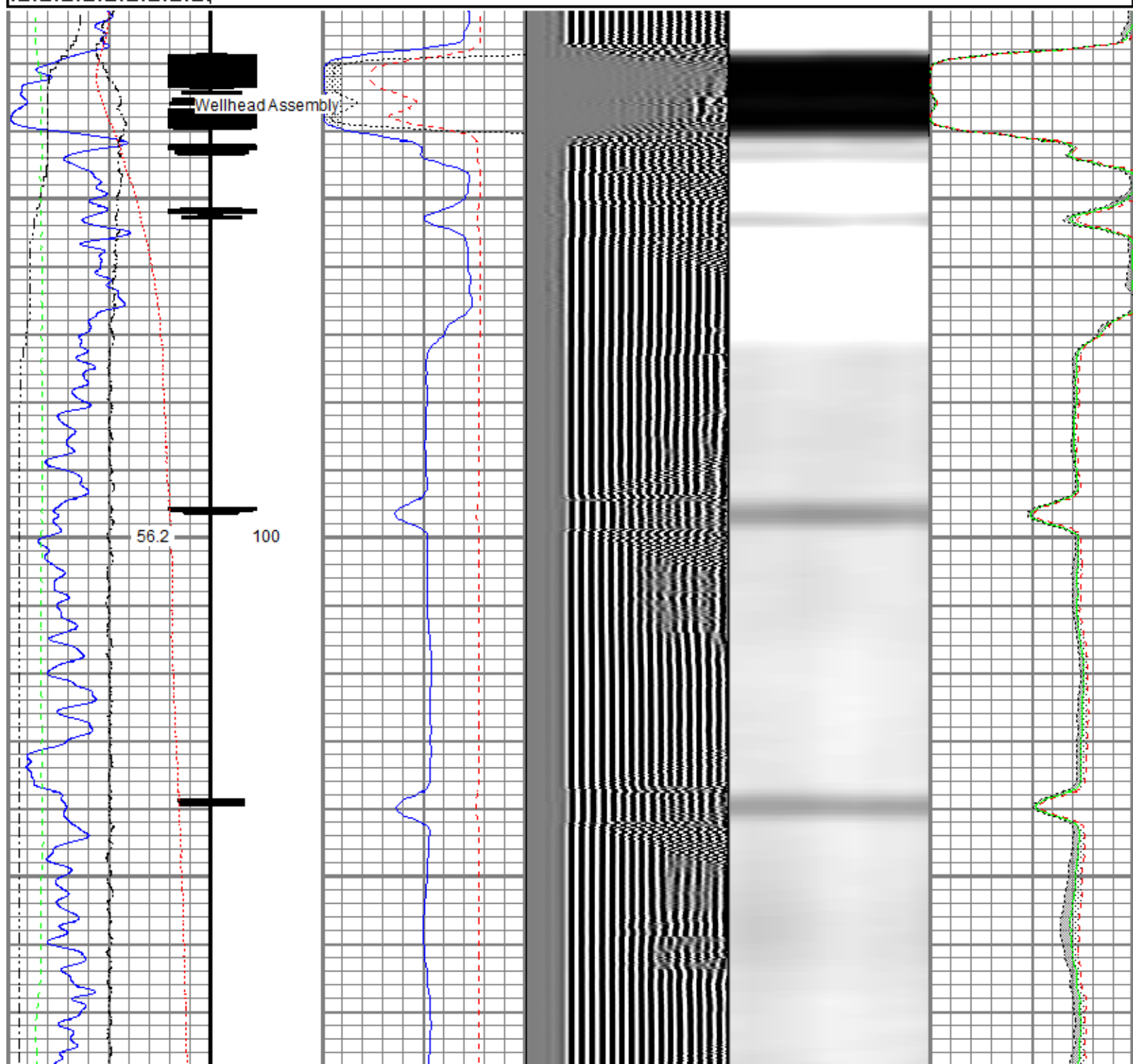
Log ran as per customer request
Depth referenced to Casing Tally reported Marker Joint at 6868 FT
Adjusted 14 FT to correlate with Marker Joint
Log ran from 6920 FT to Surface
Log ran with 2800 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations

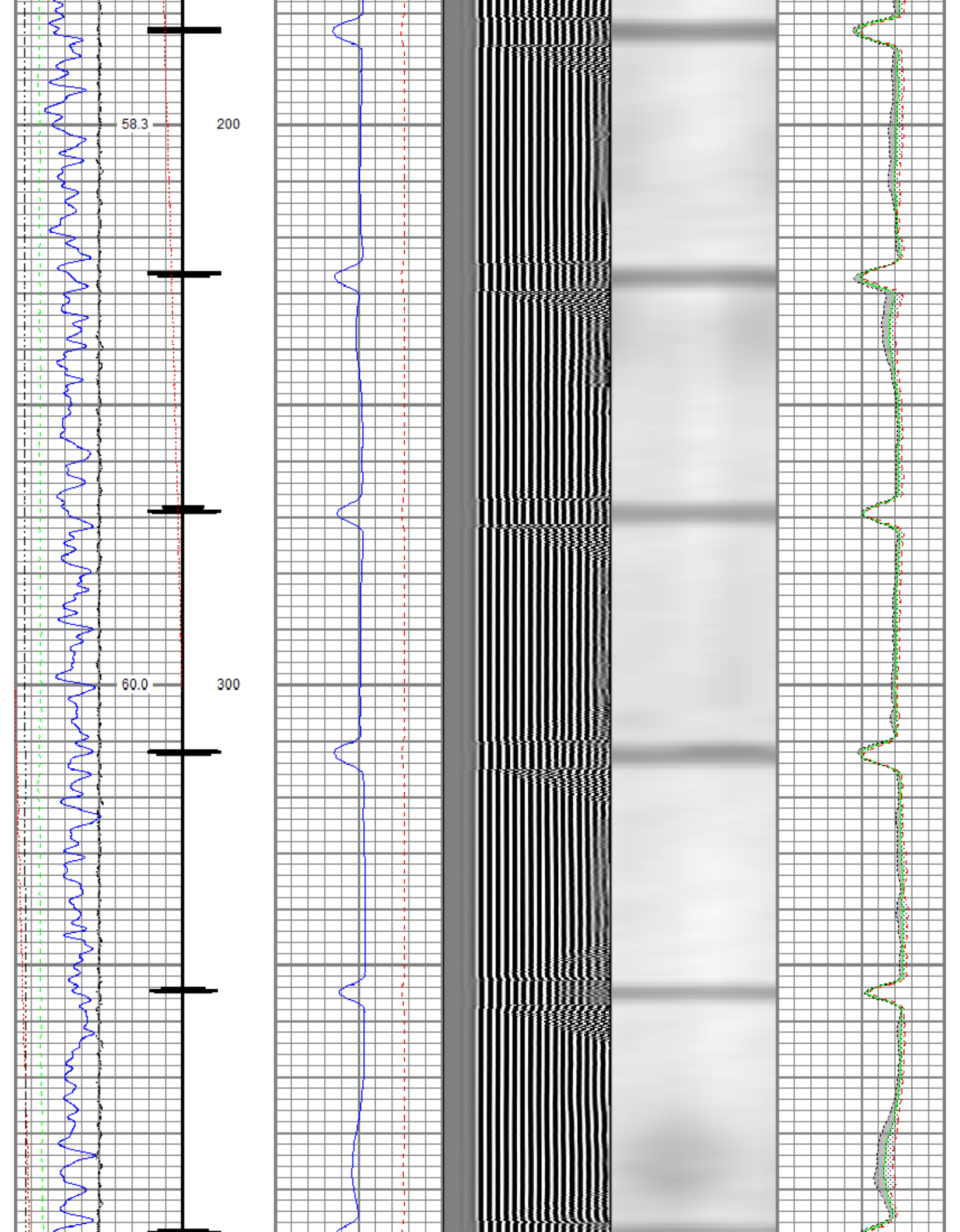
Thank you for choosing Reliance Oilfield Services, LLC!!

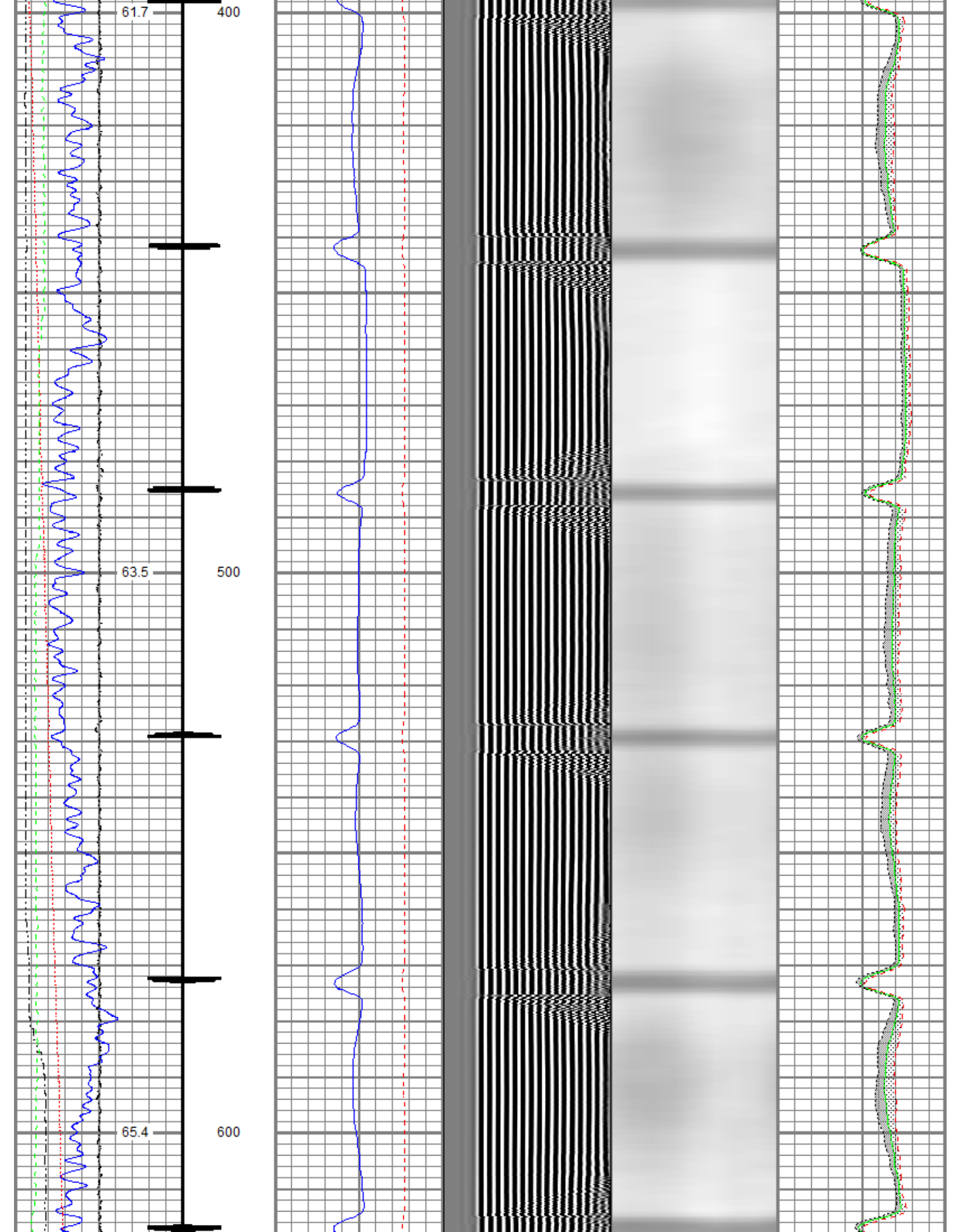
Main Pass

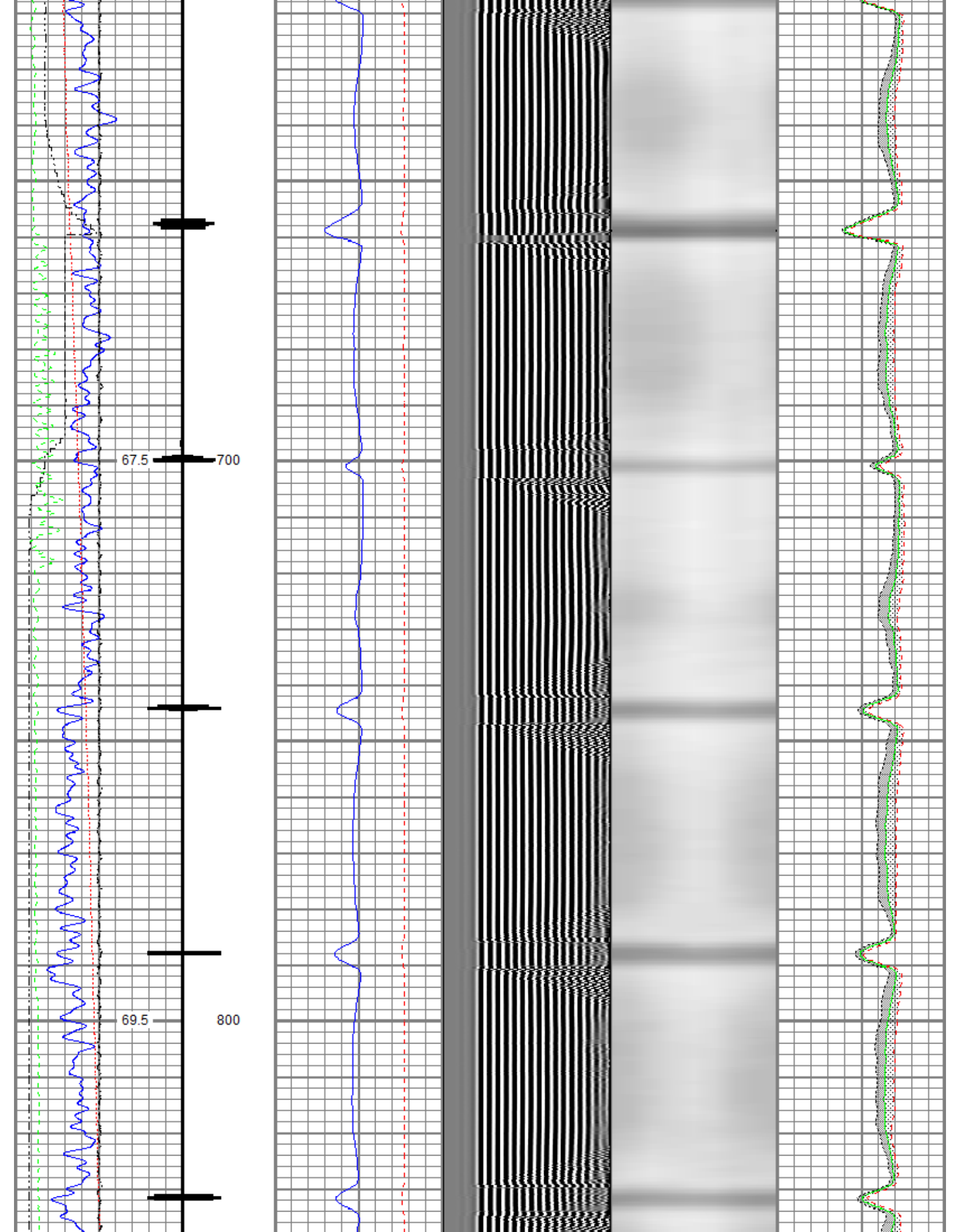
Database File anadarko\papa jo 2-25 35n2-17hz\0512345506_anadarko_papa jo 2-25 35n2-17hz_rbl_03-28-18_2800 psi.db
 Dataset Pathname pass4.1
 Presentation Format ros_radri
 Dataset Creation Wed Mar 28 09:14:04 2018
 Charted by Depth in Feet scaled 1:240

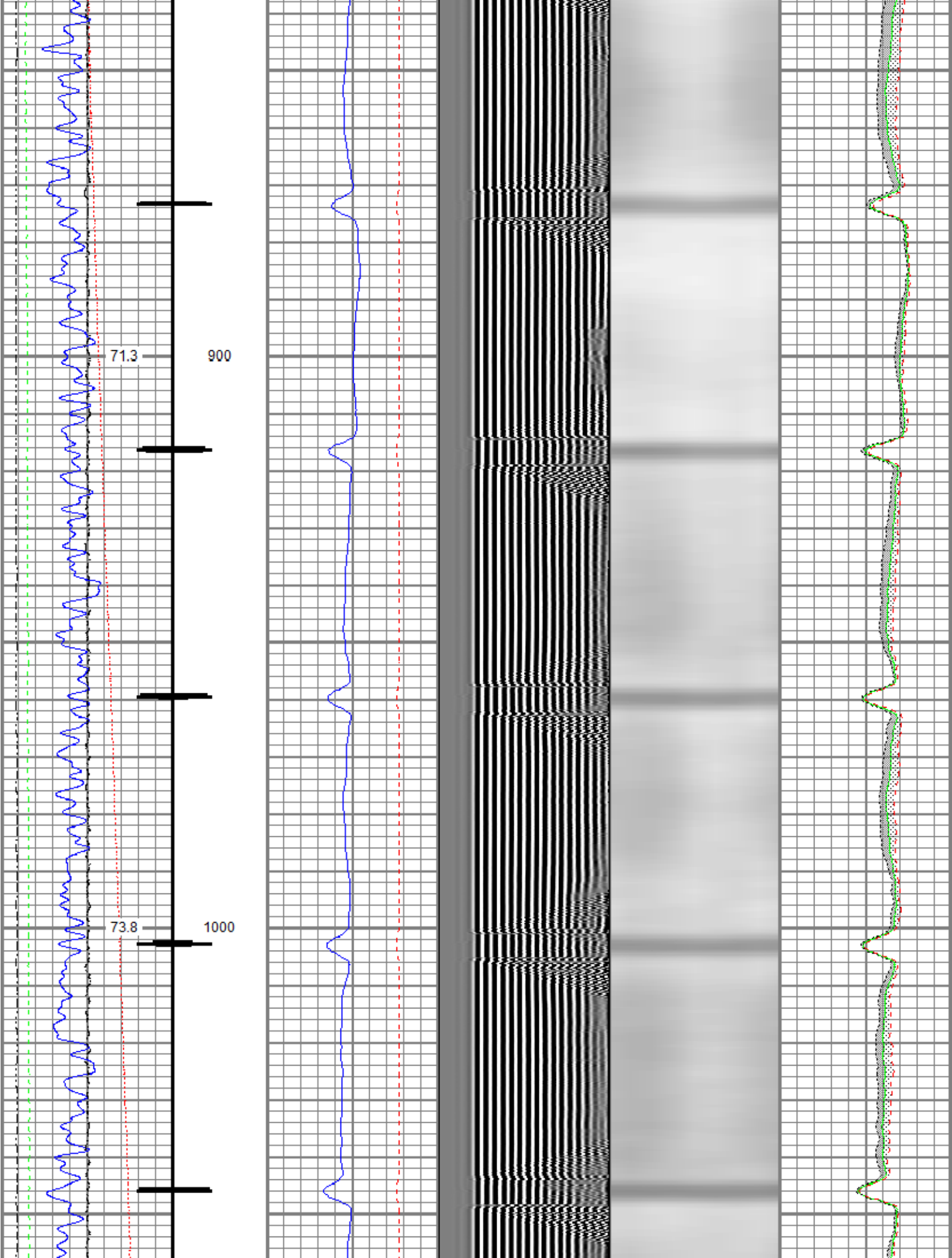
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min)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

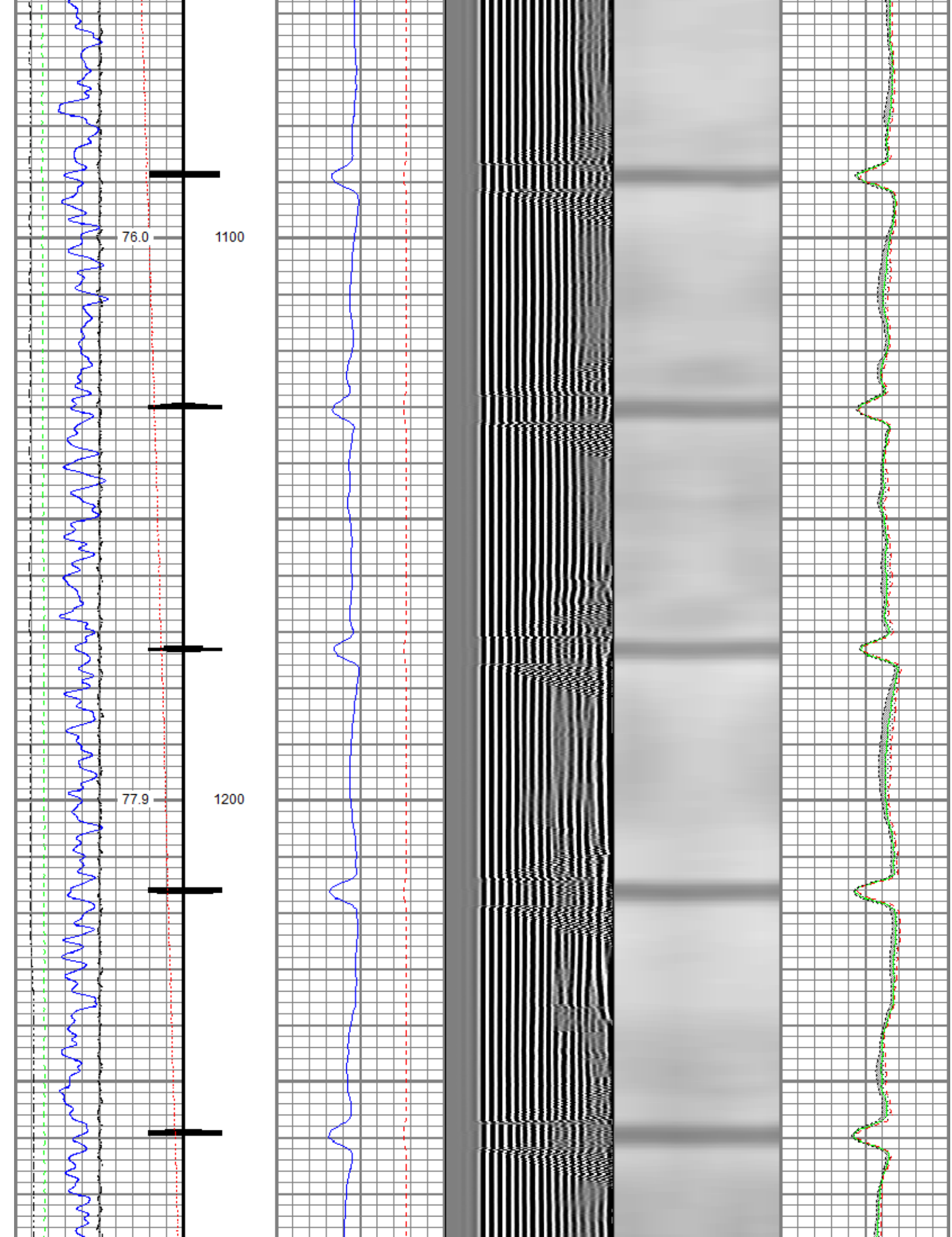


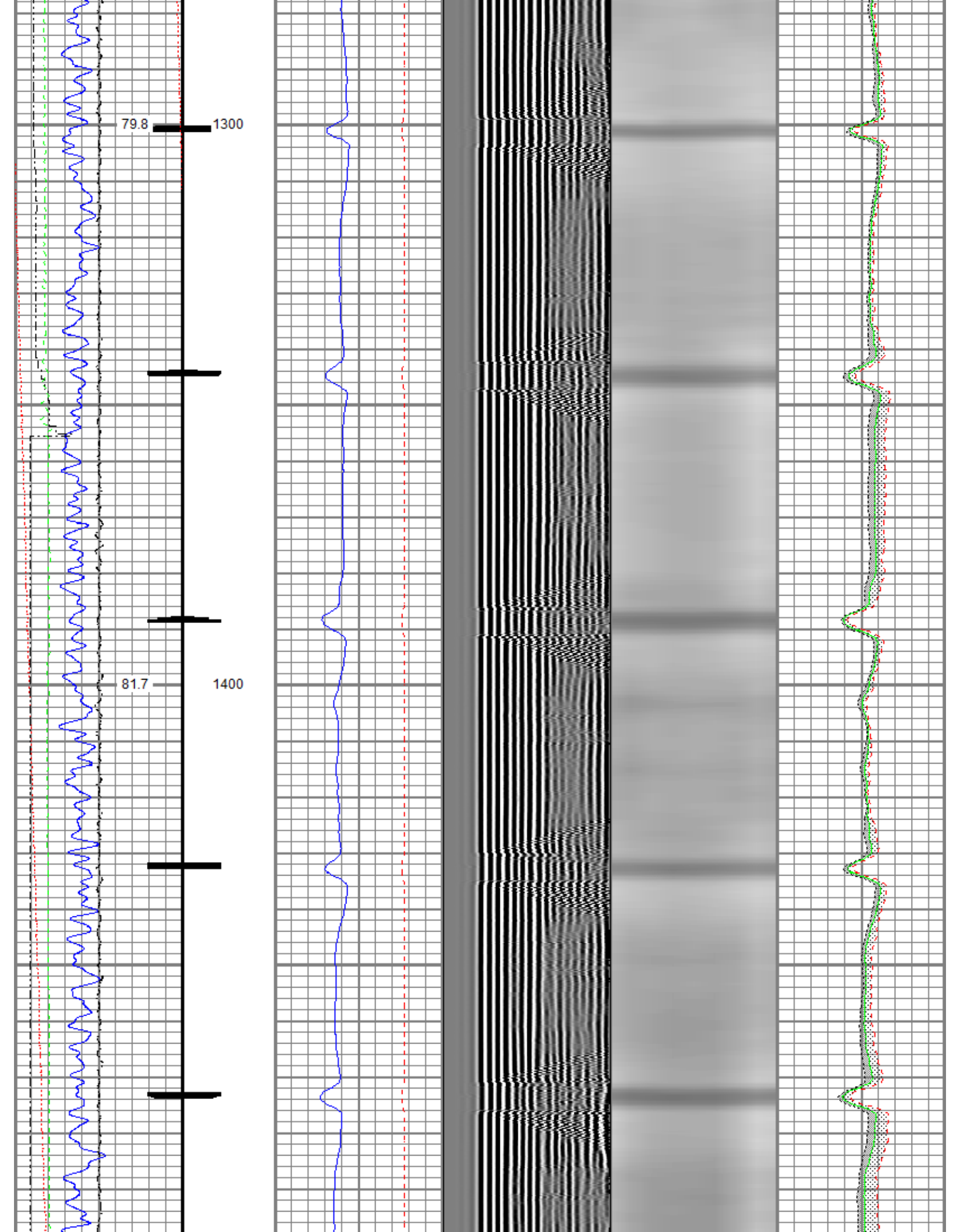








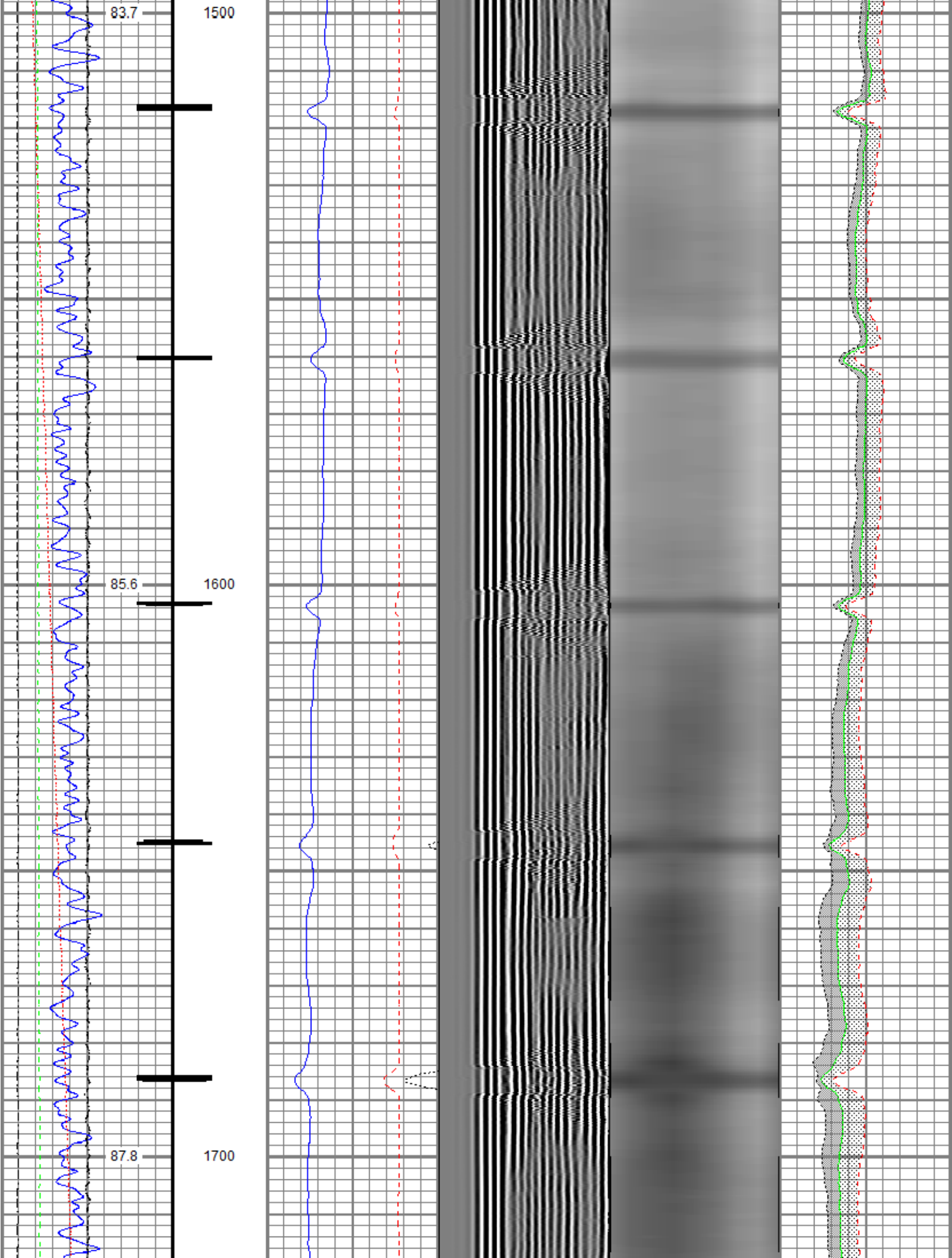


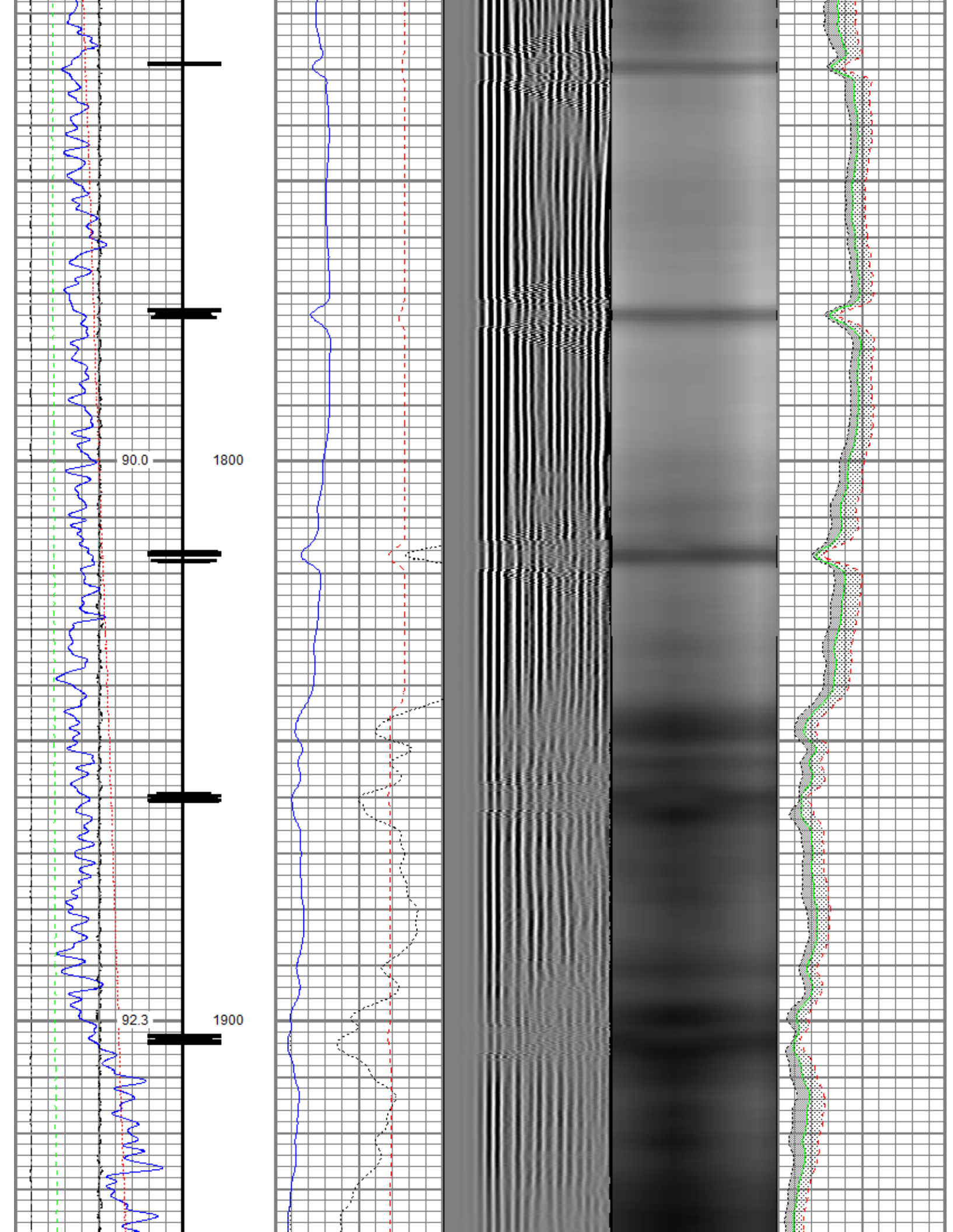


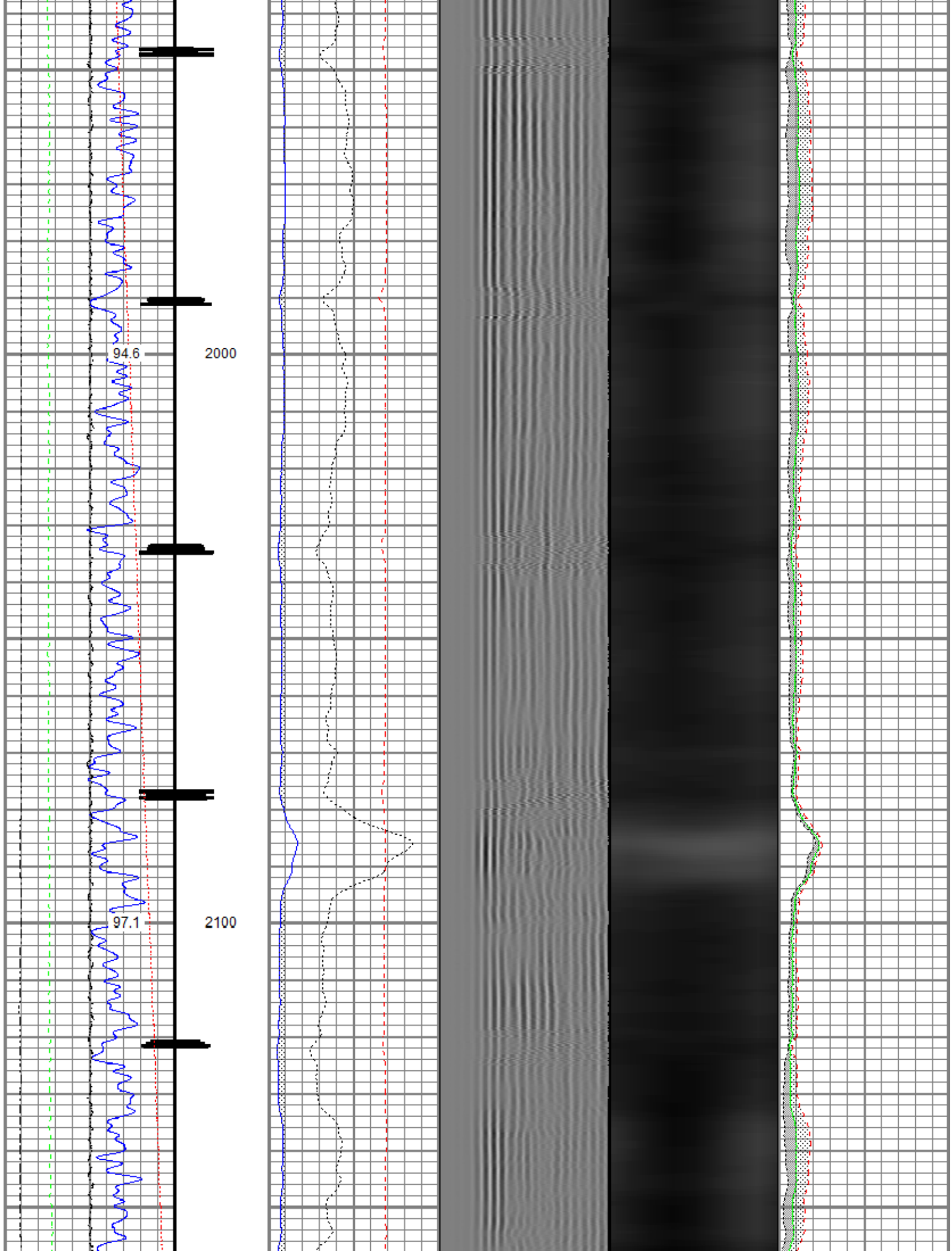
83.7 1500

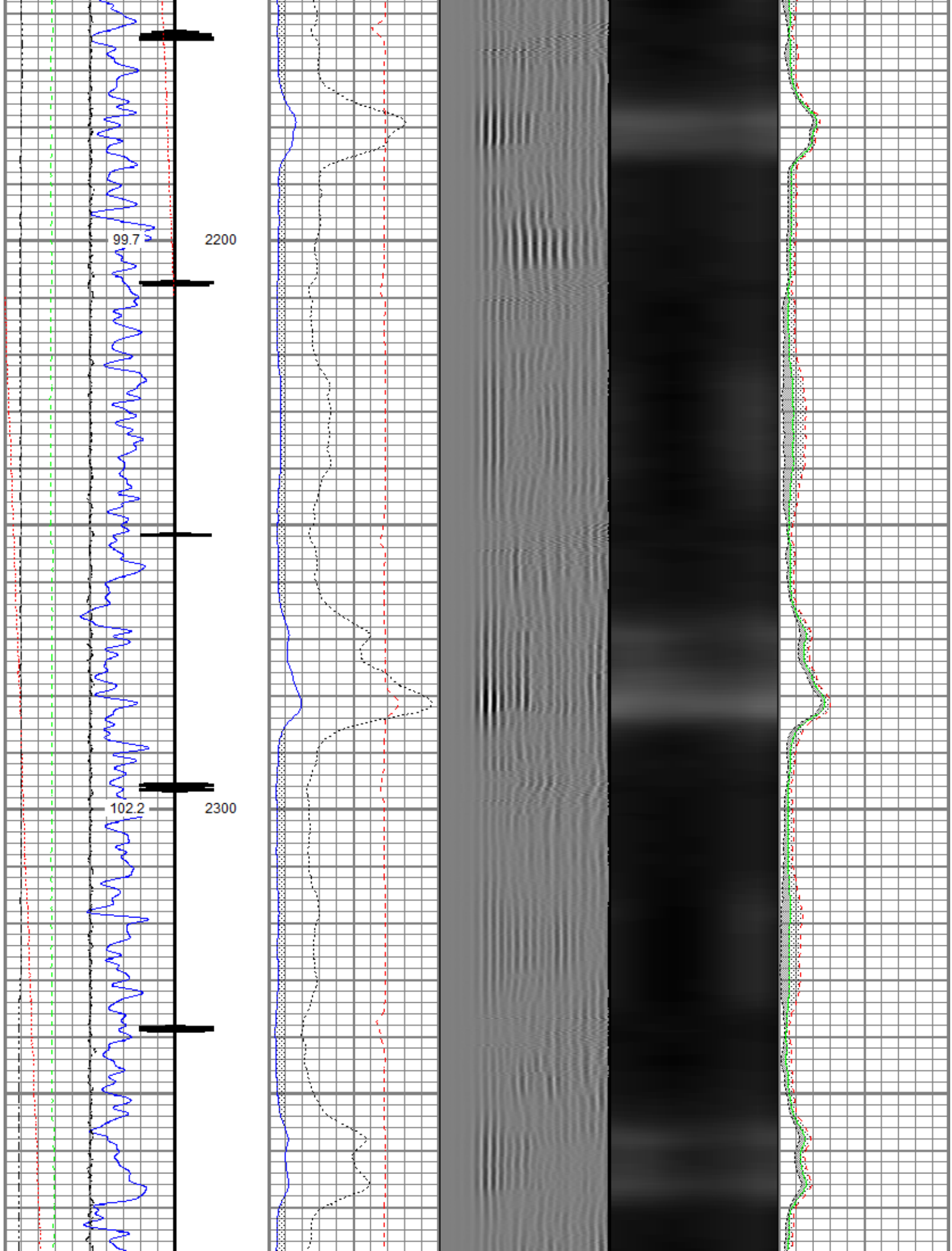
85.6 1600

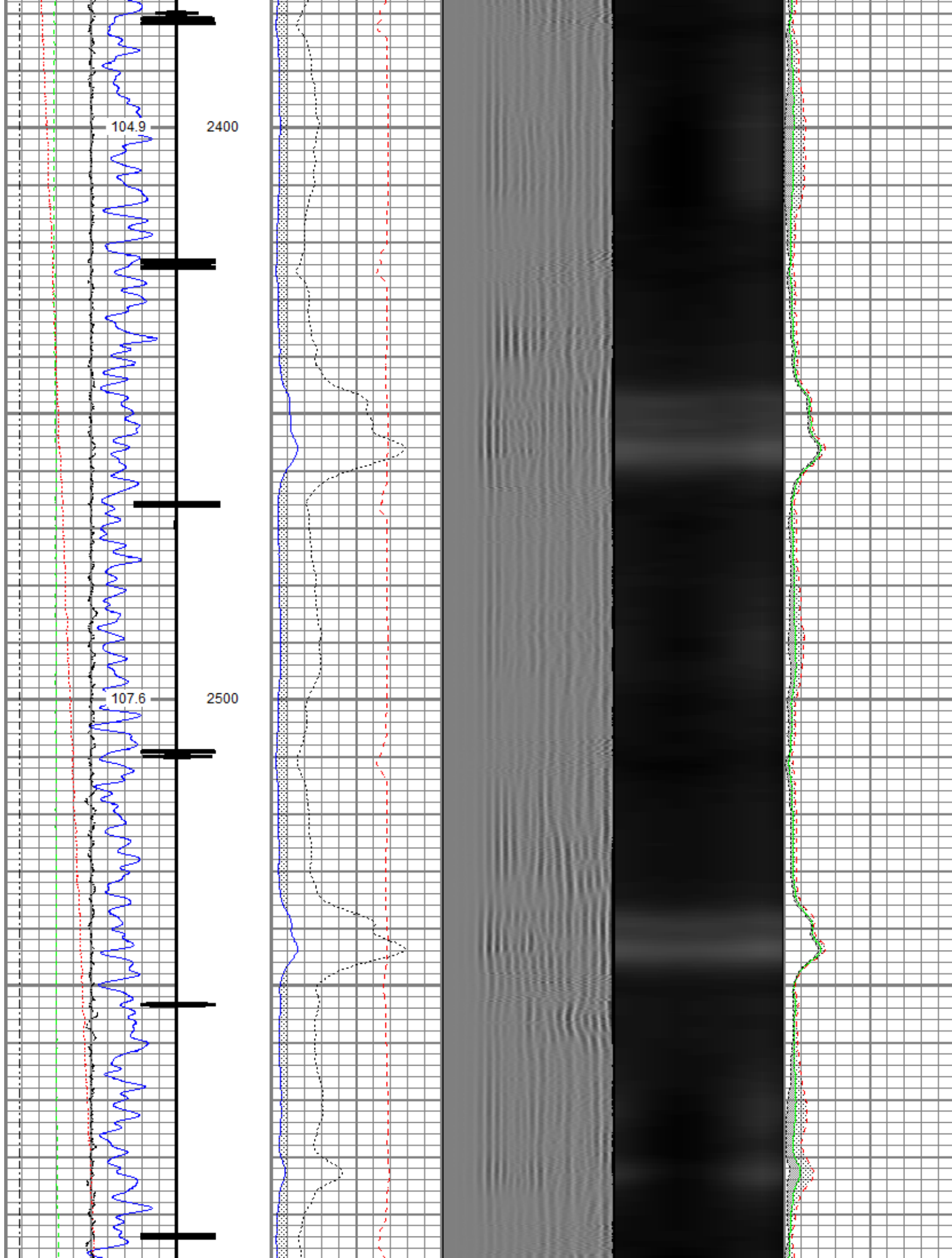
87.8 1700

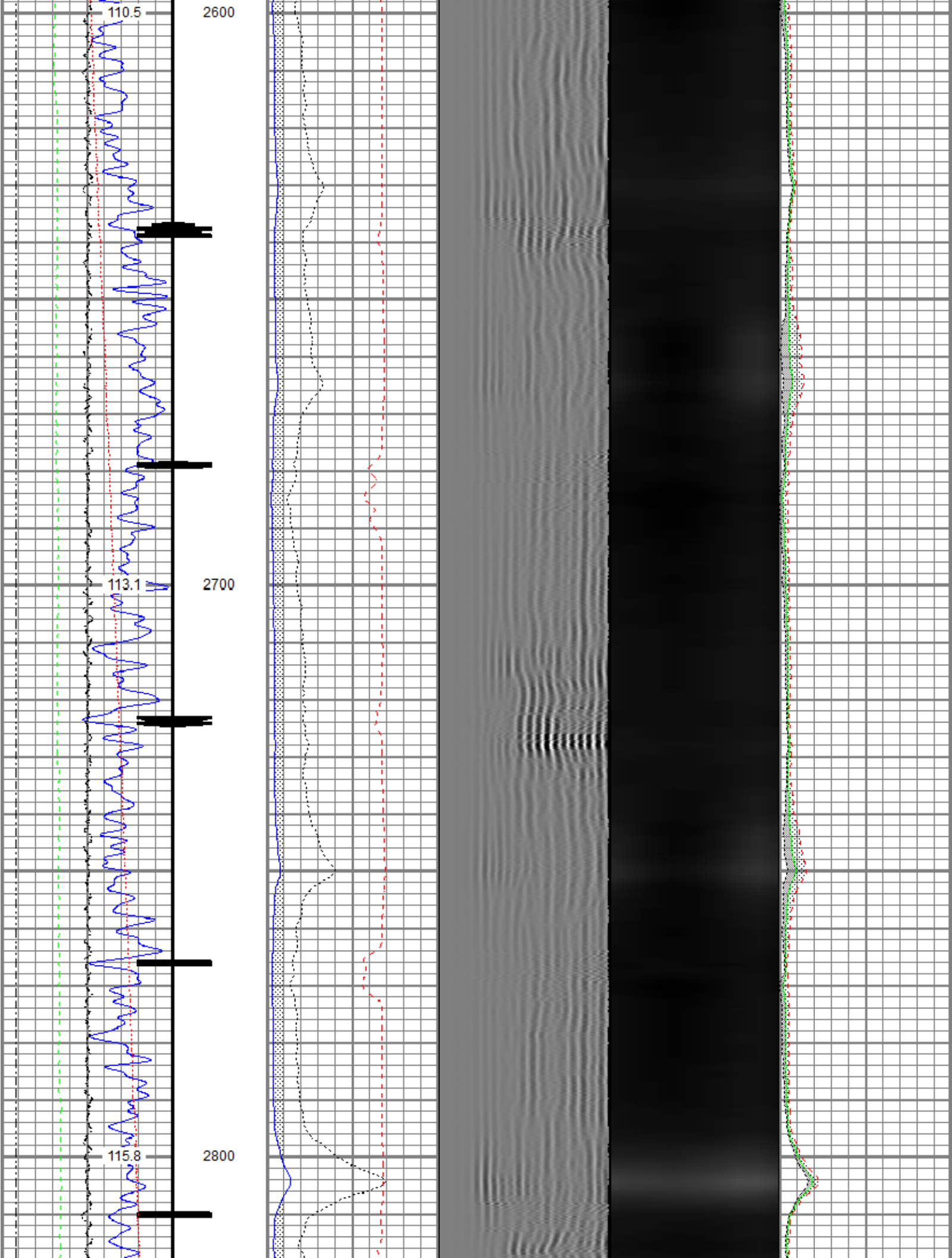


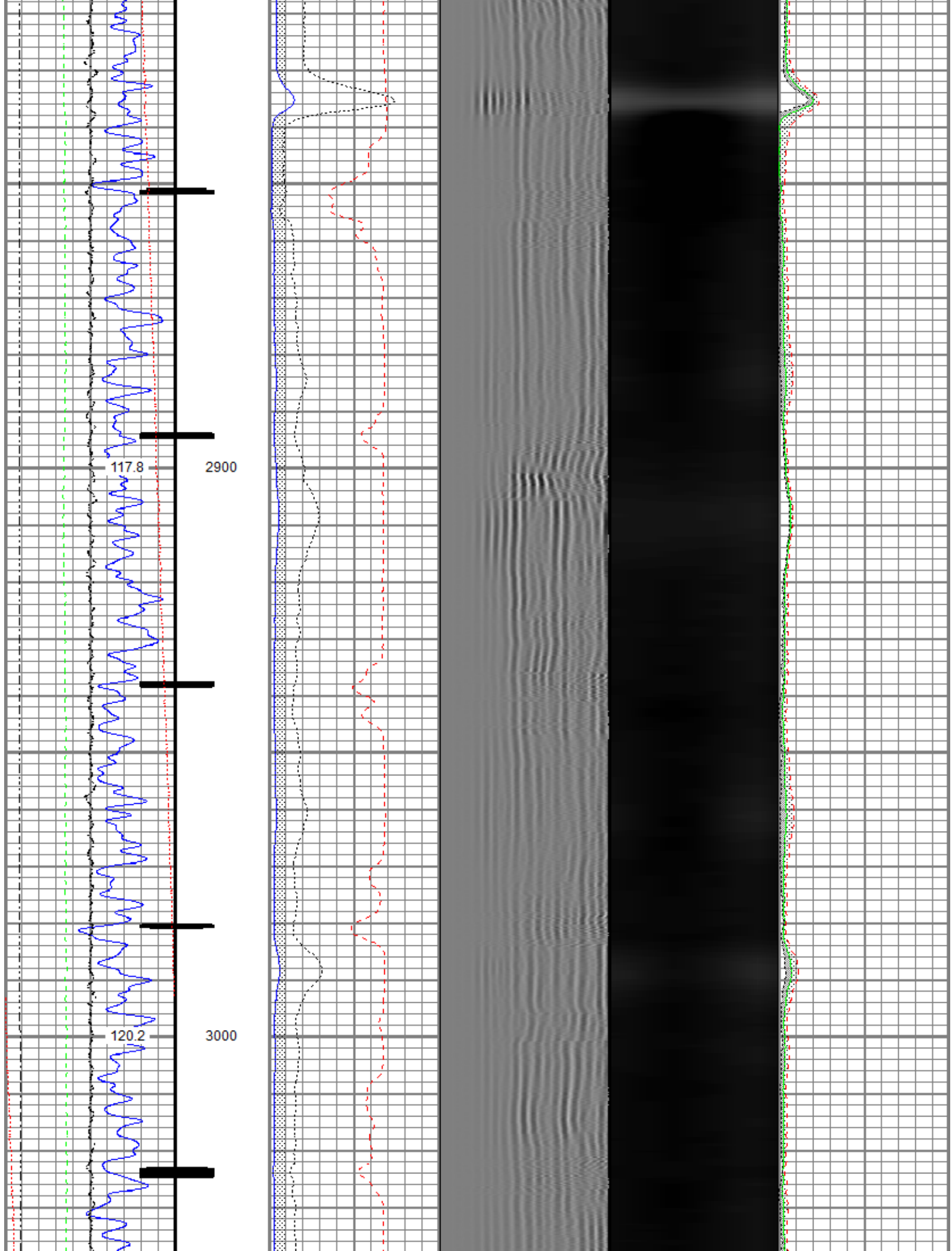


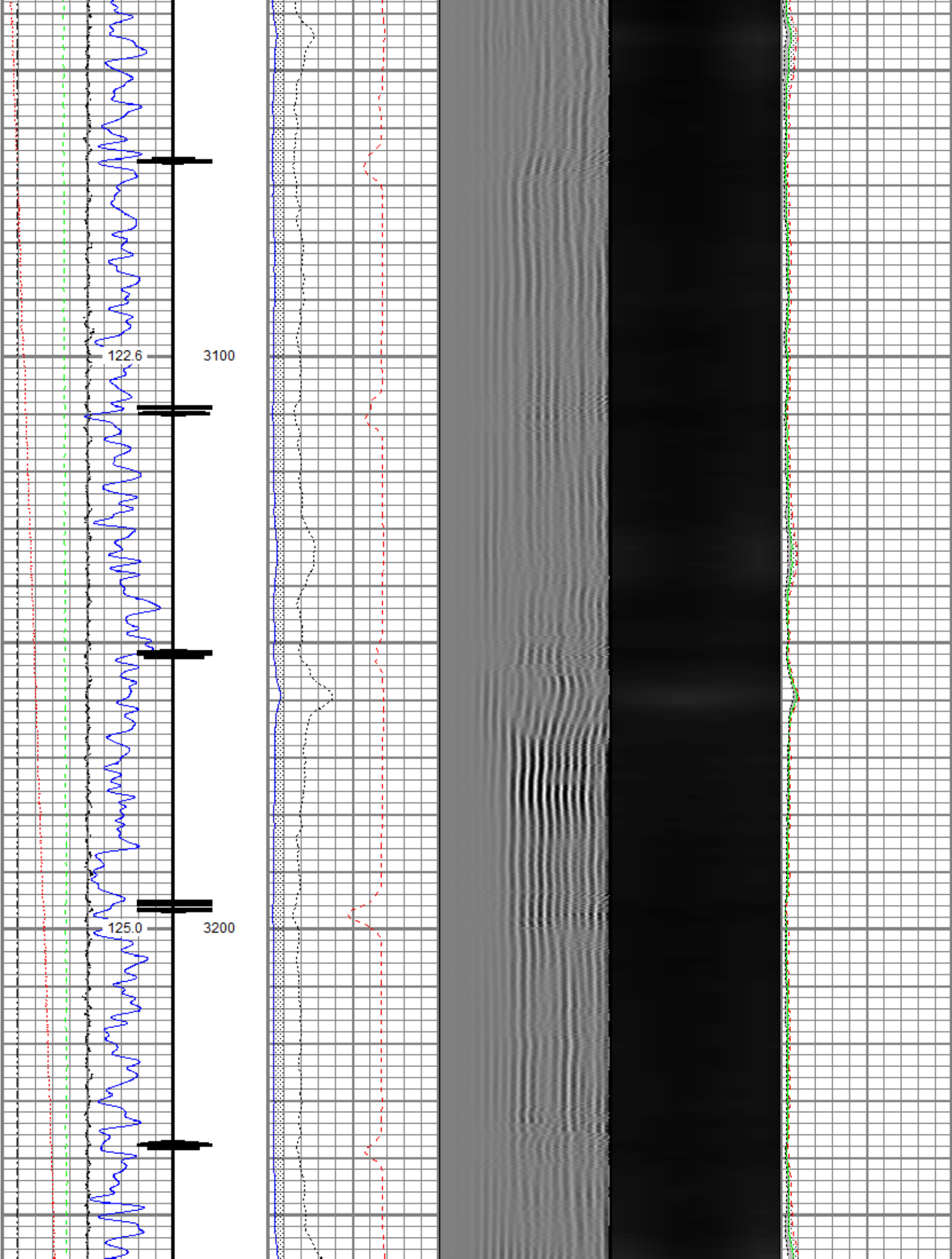


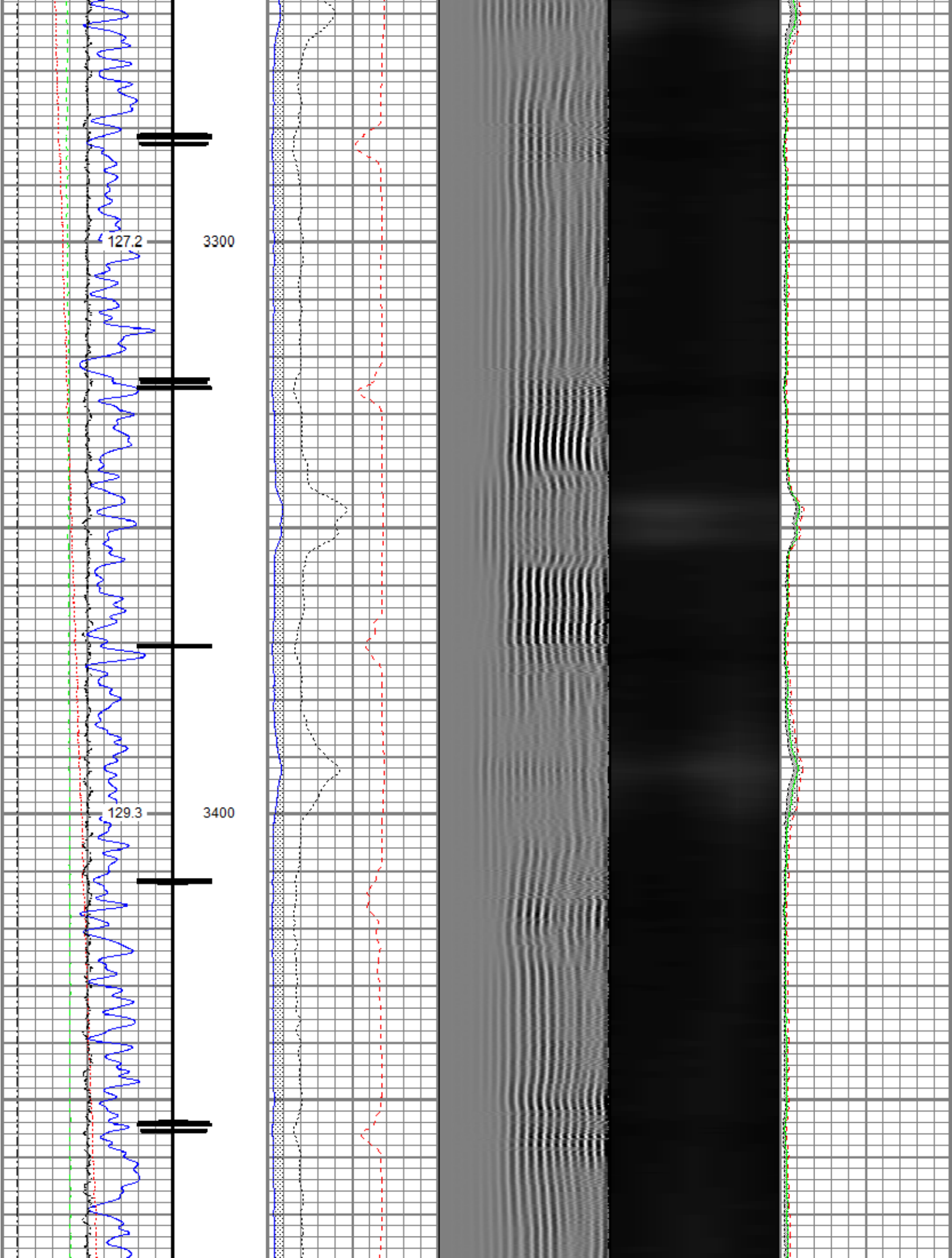


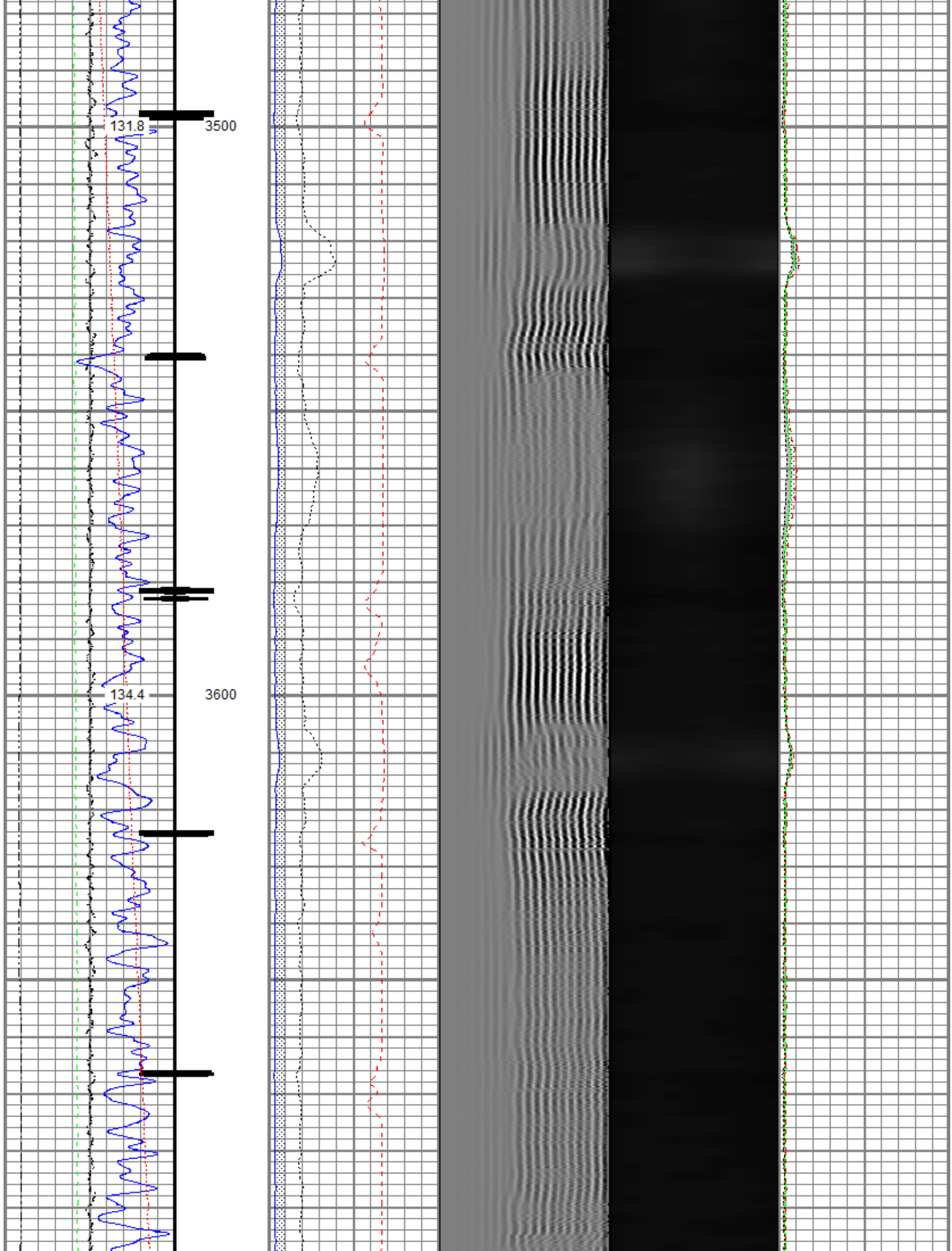


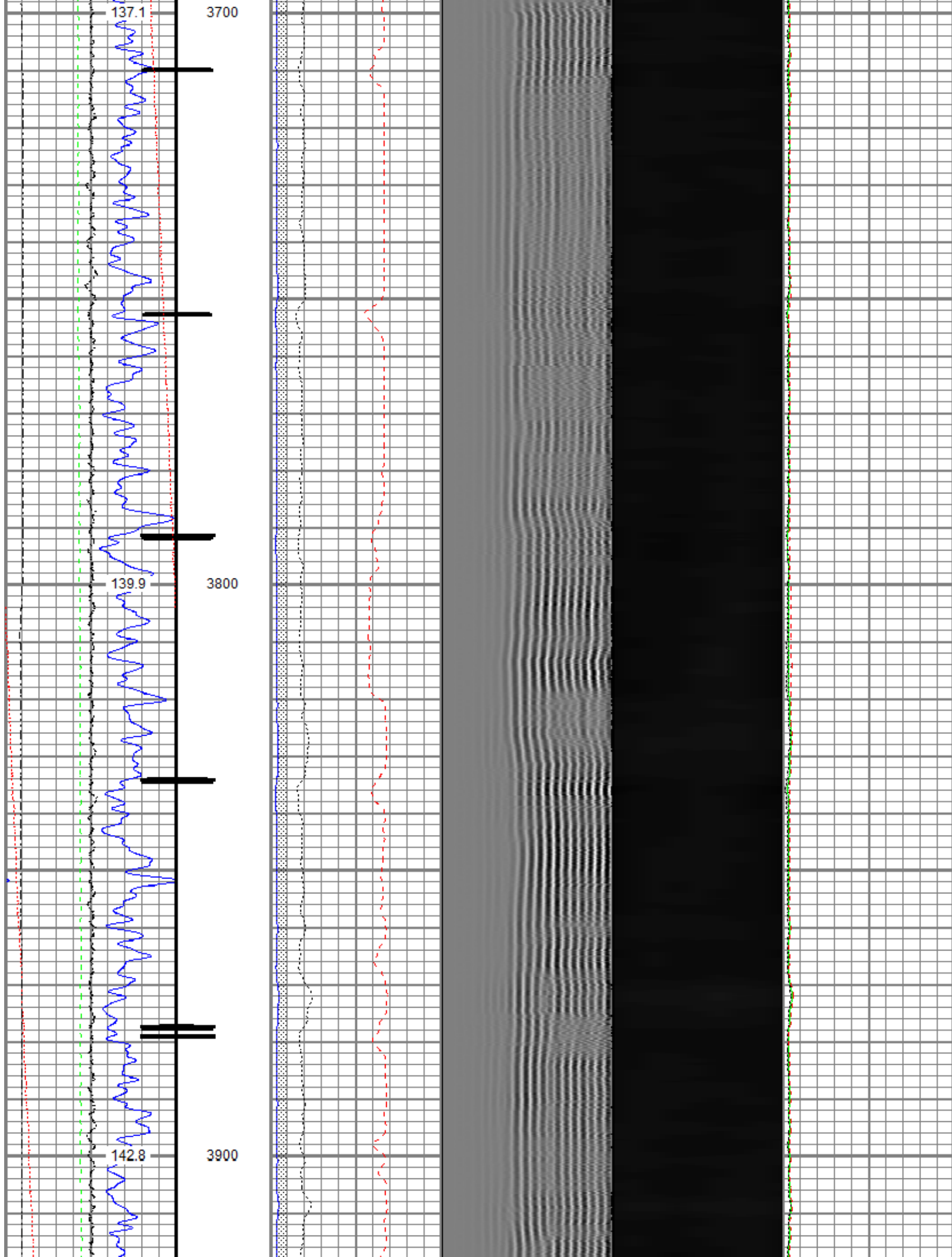


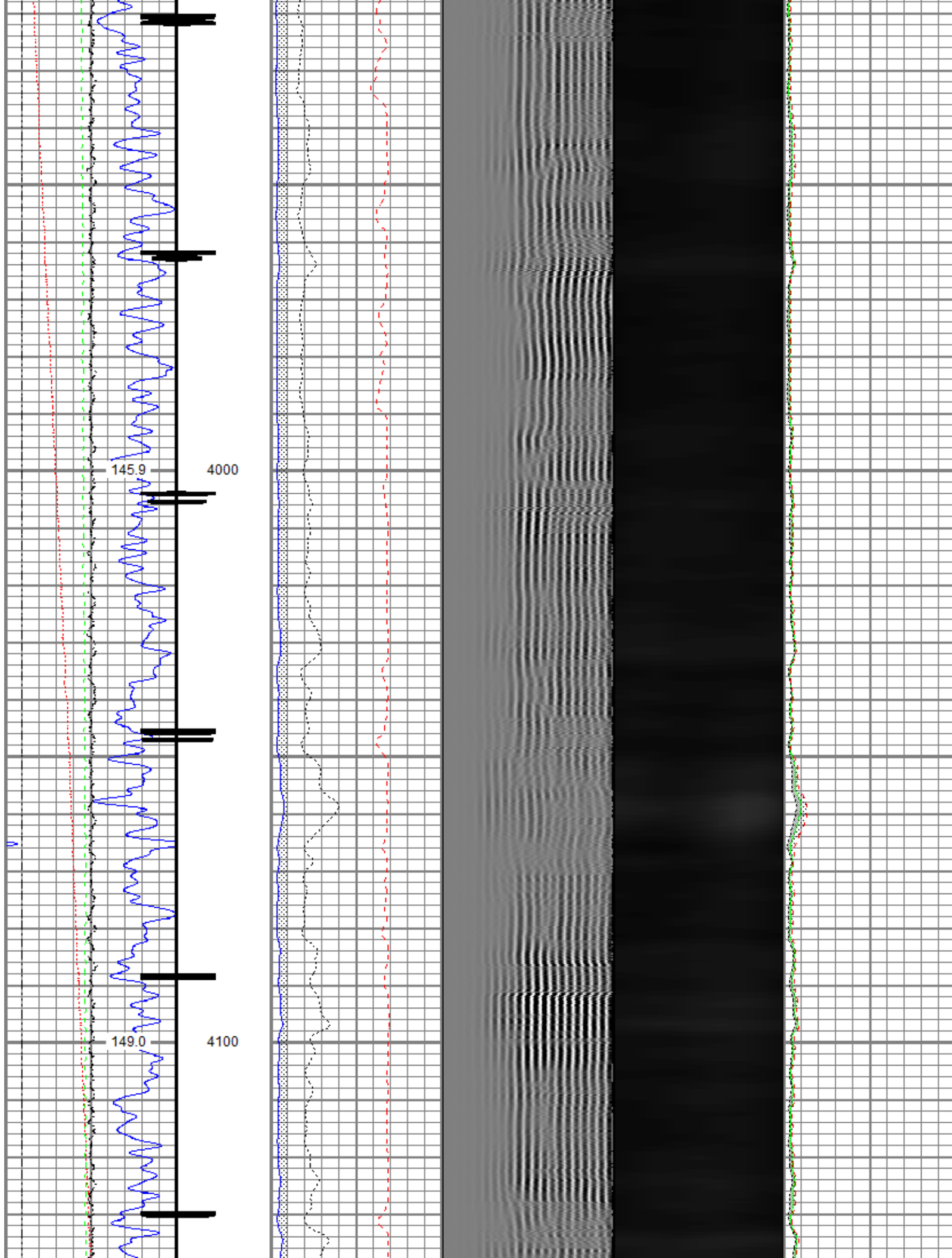


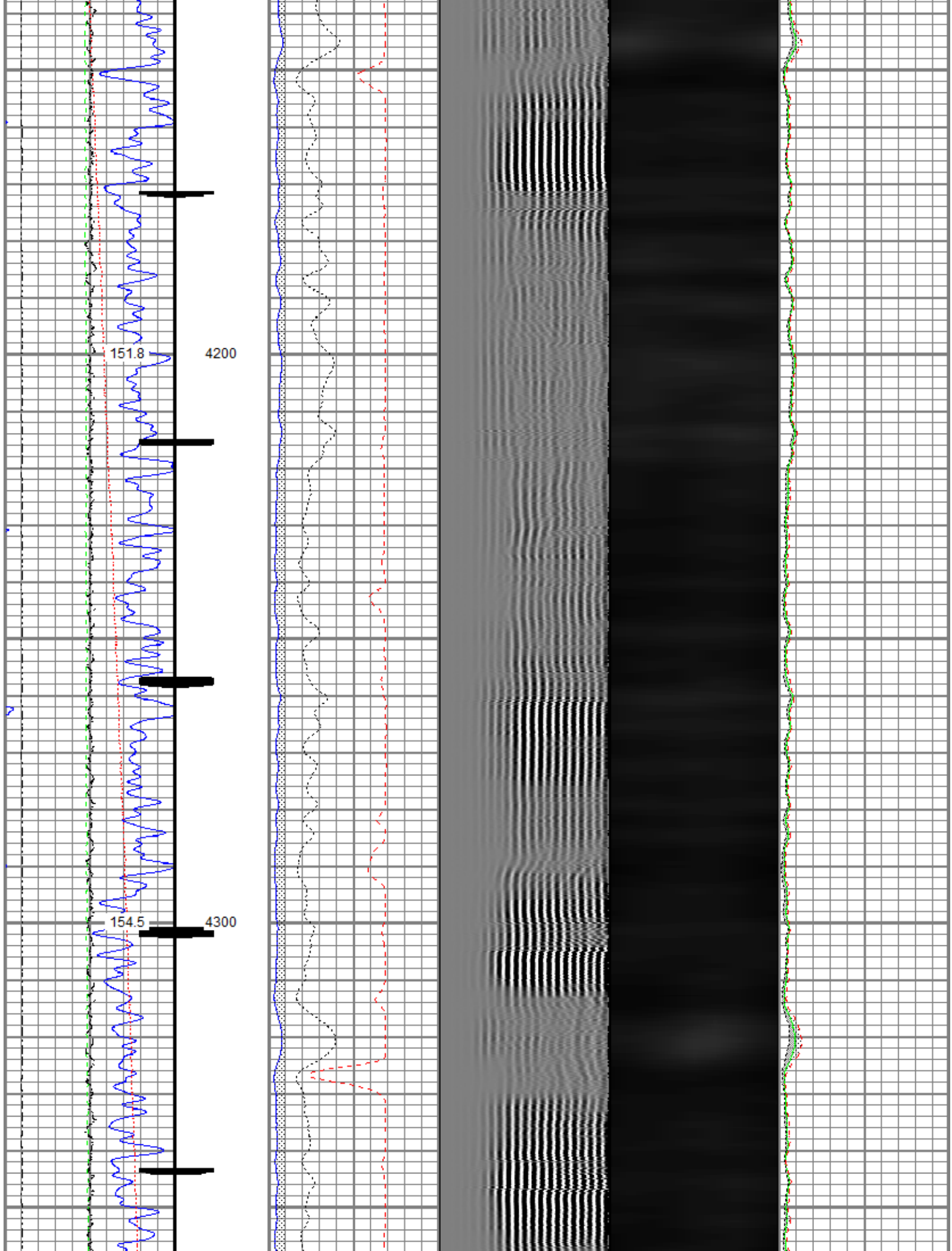


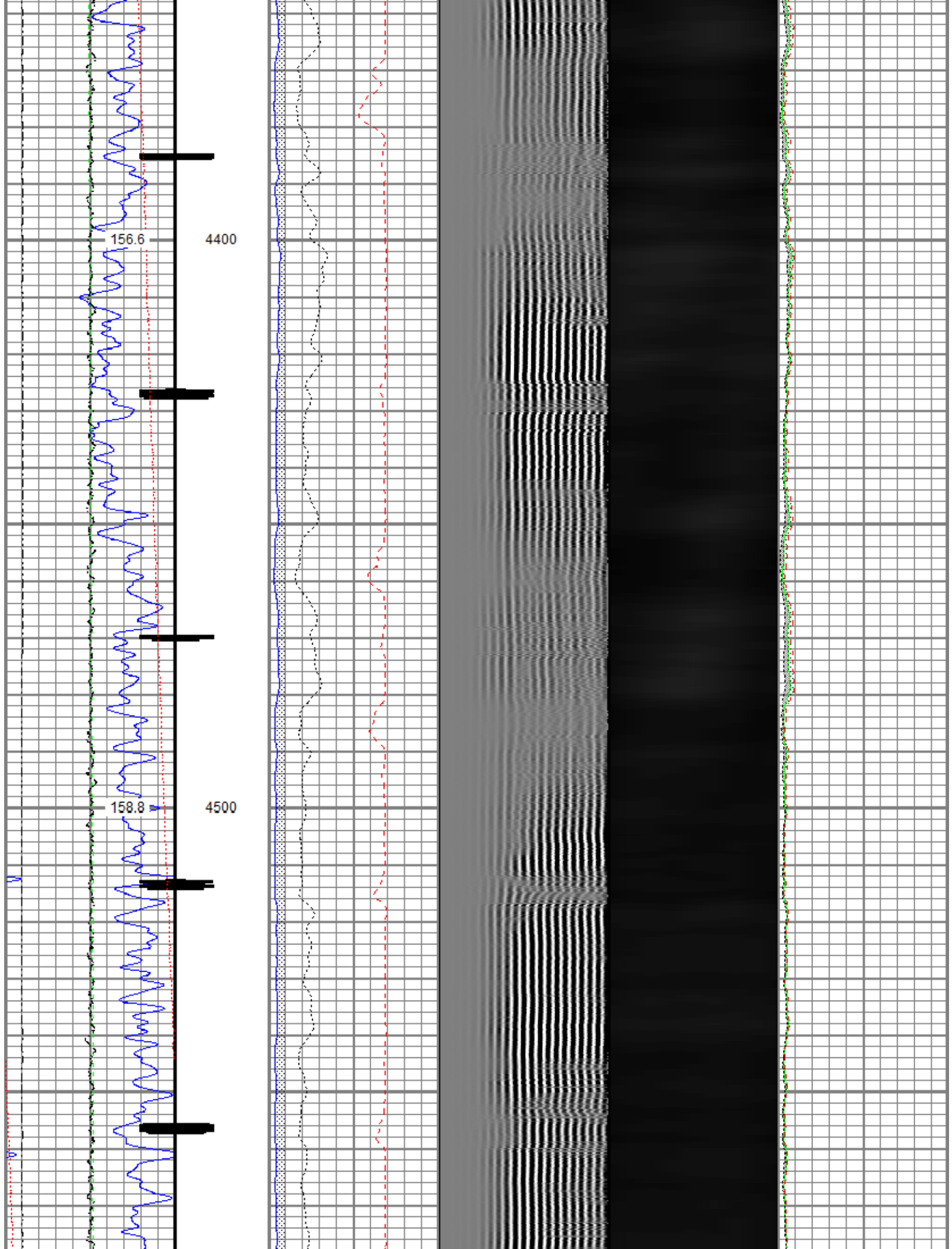


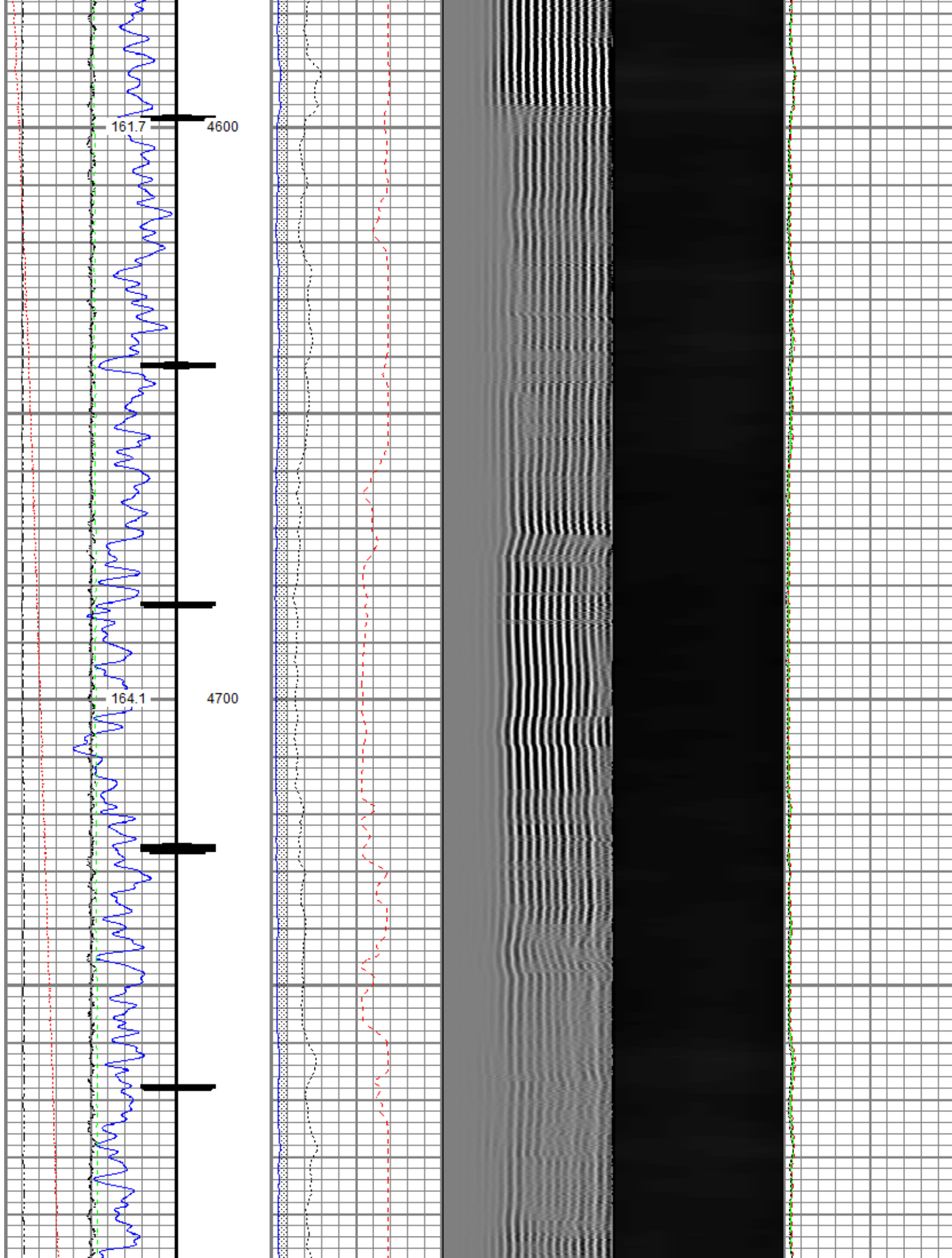


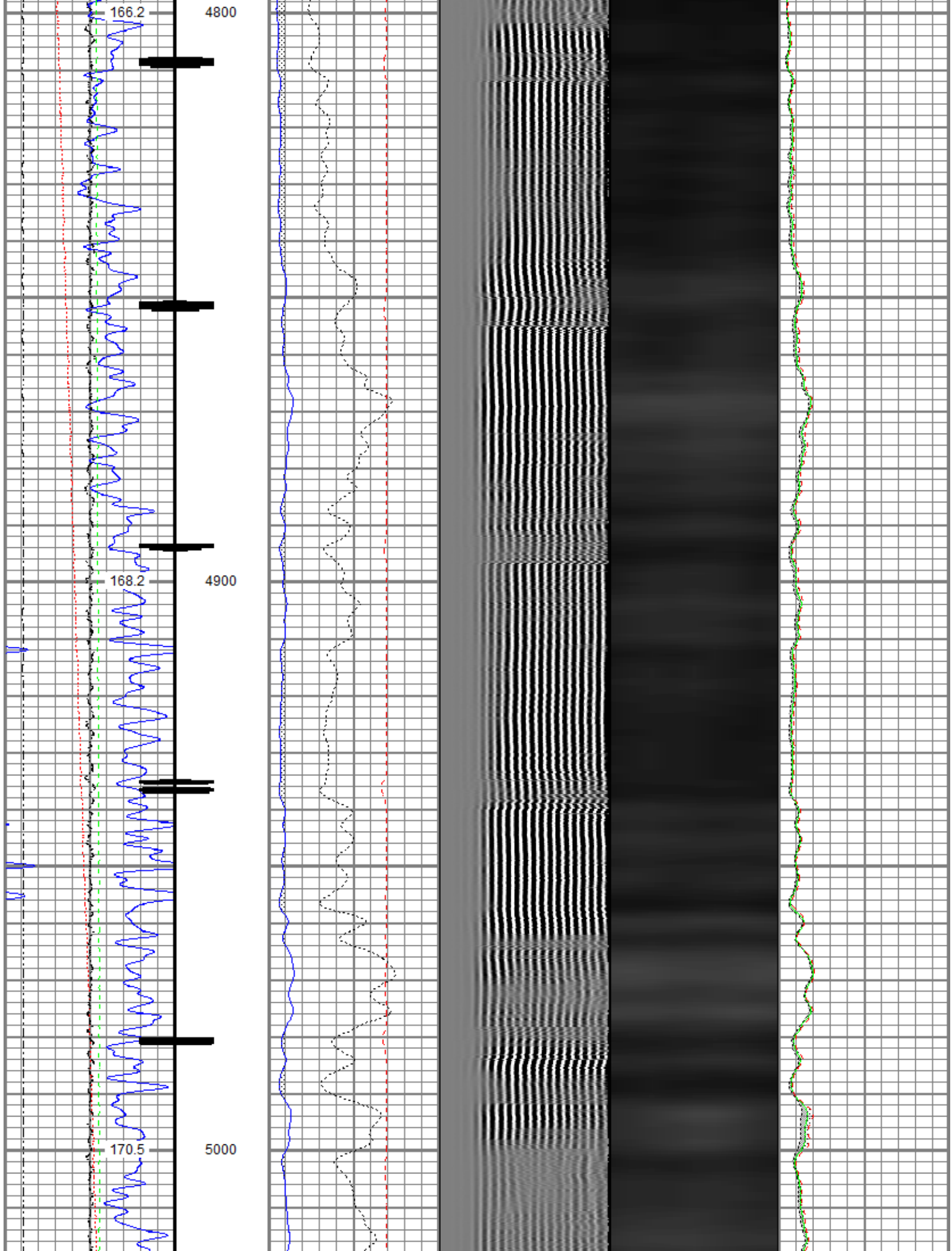


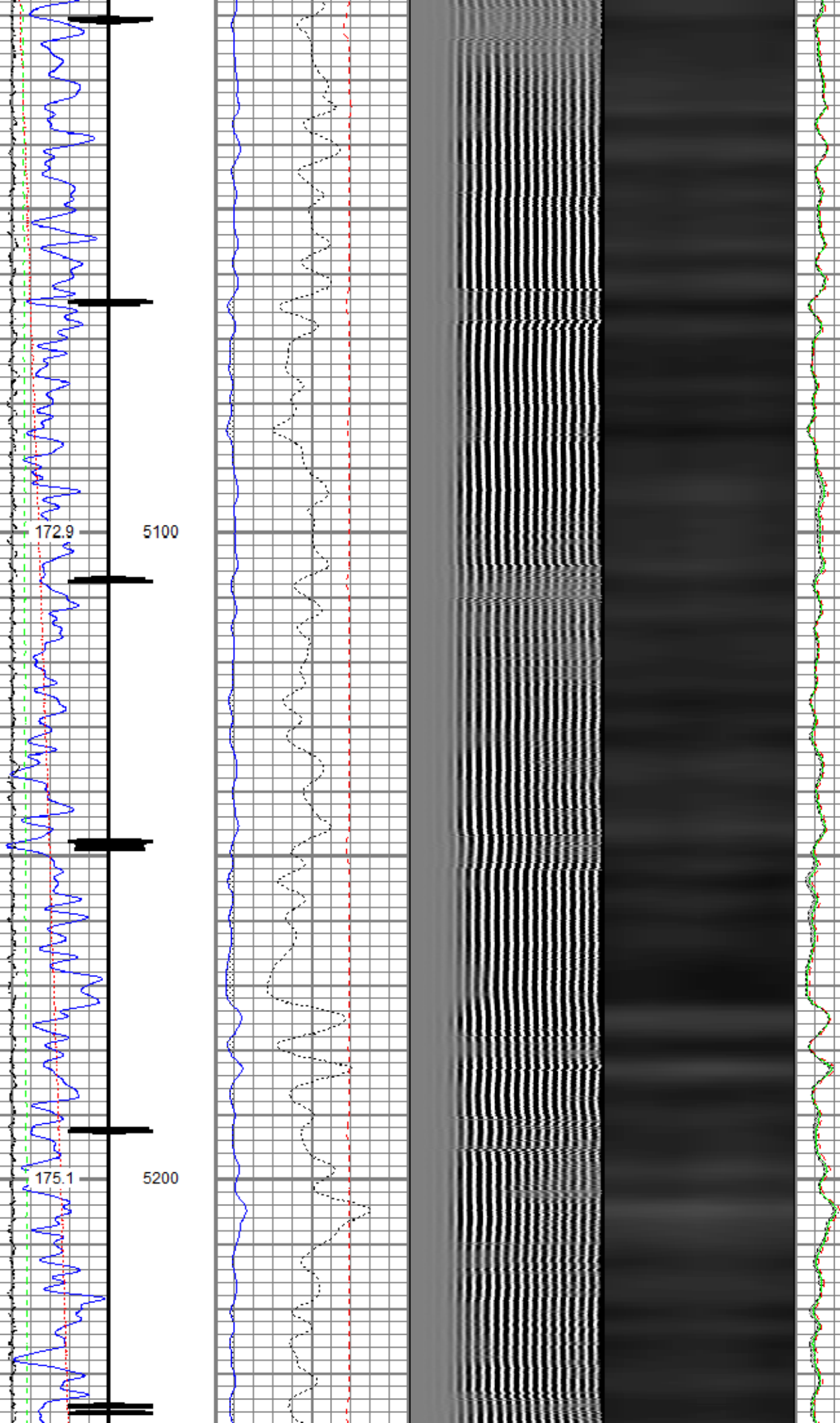


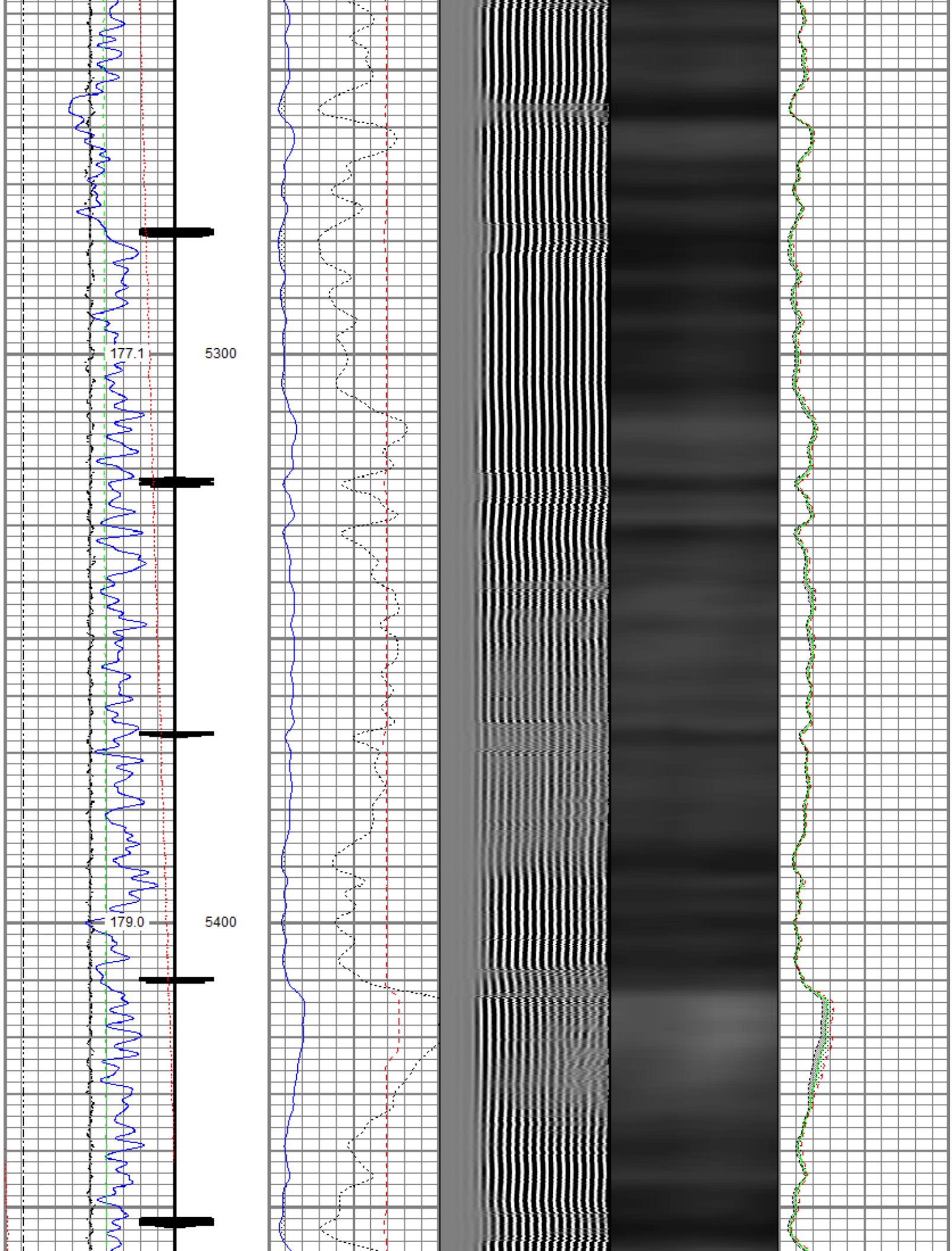


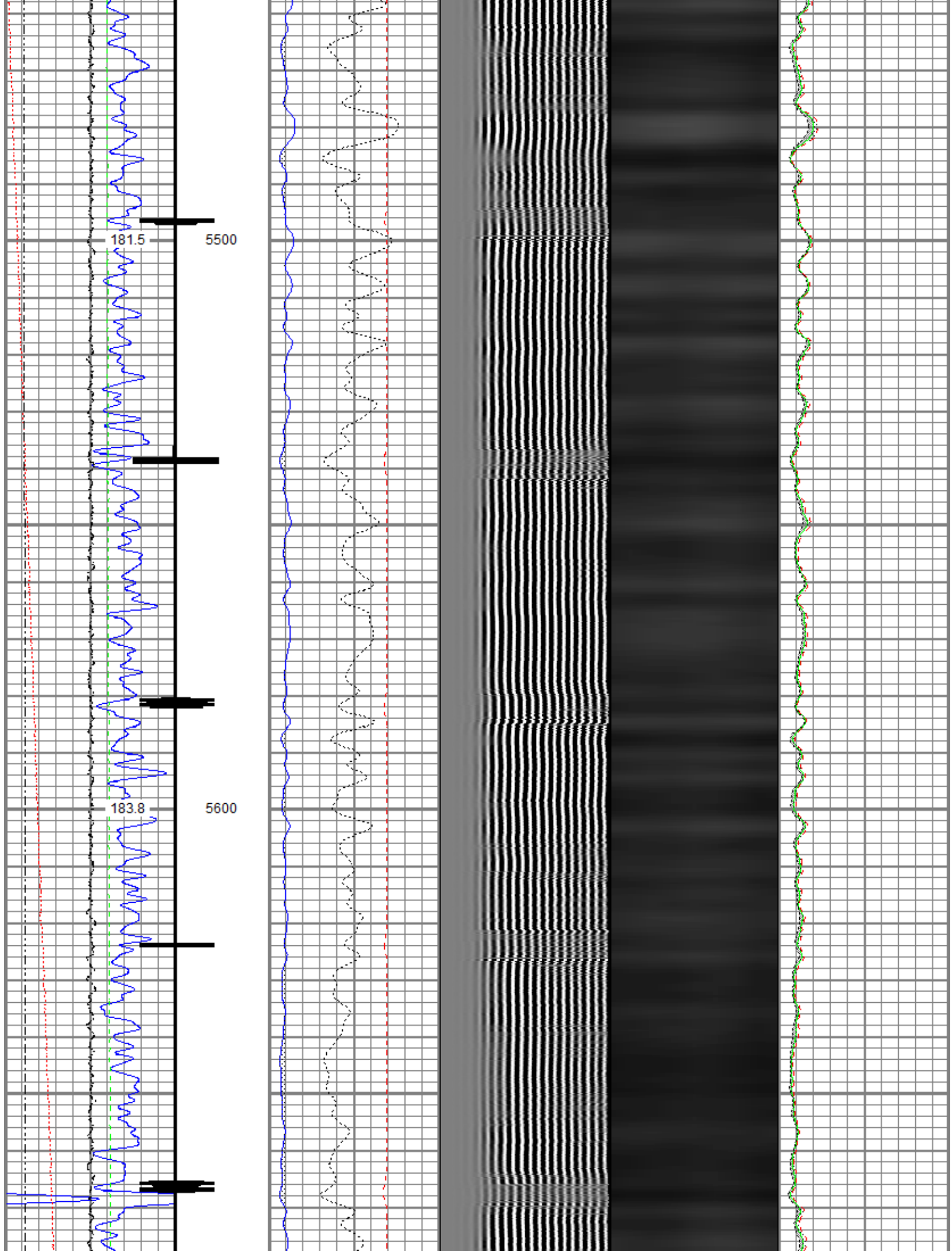


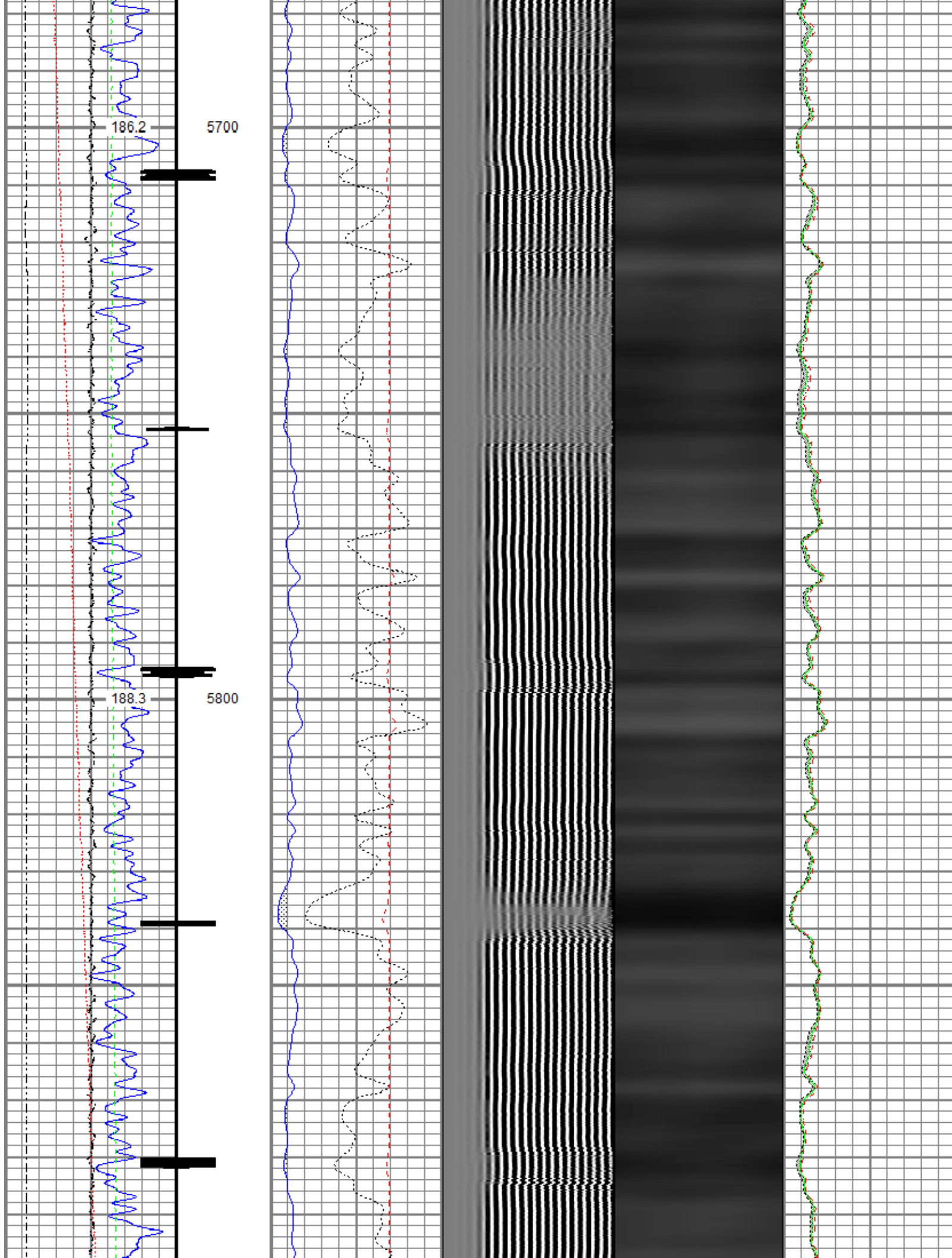


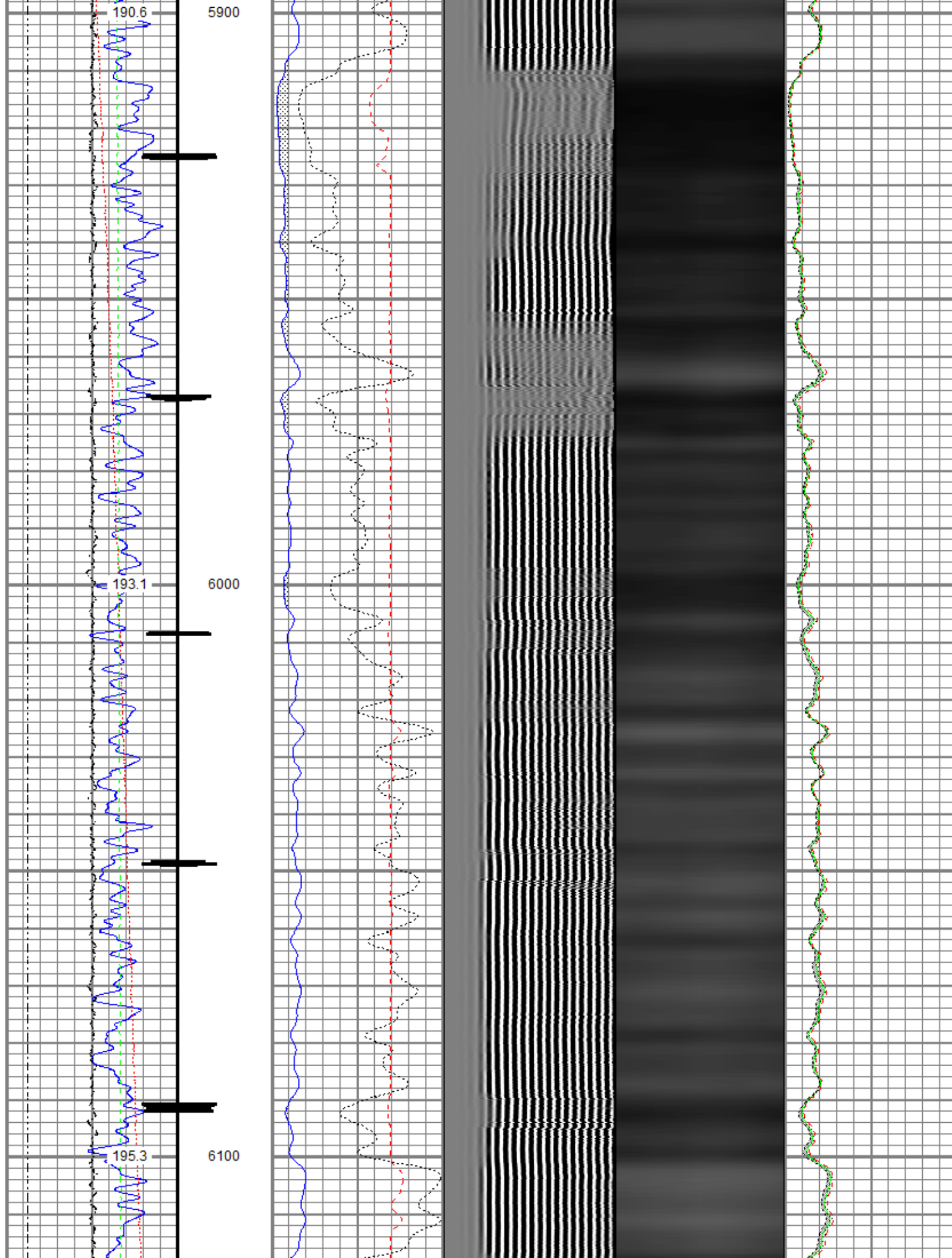


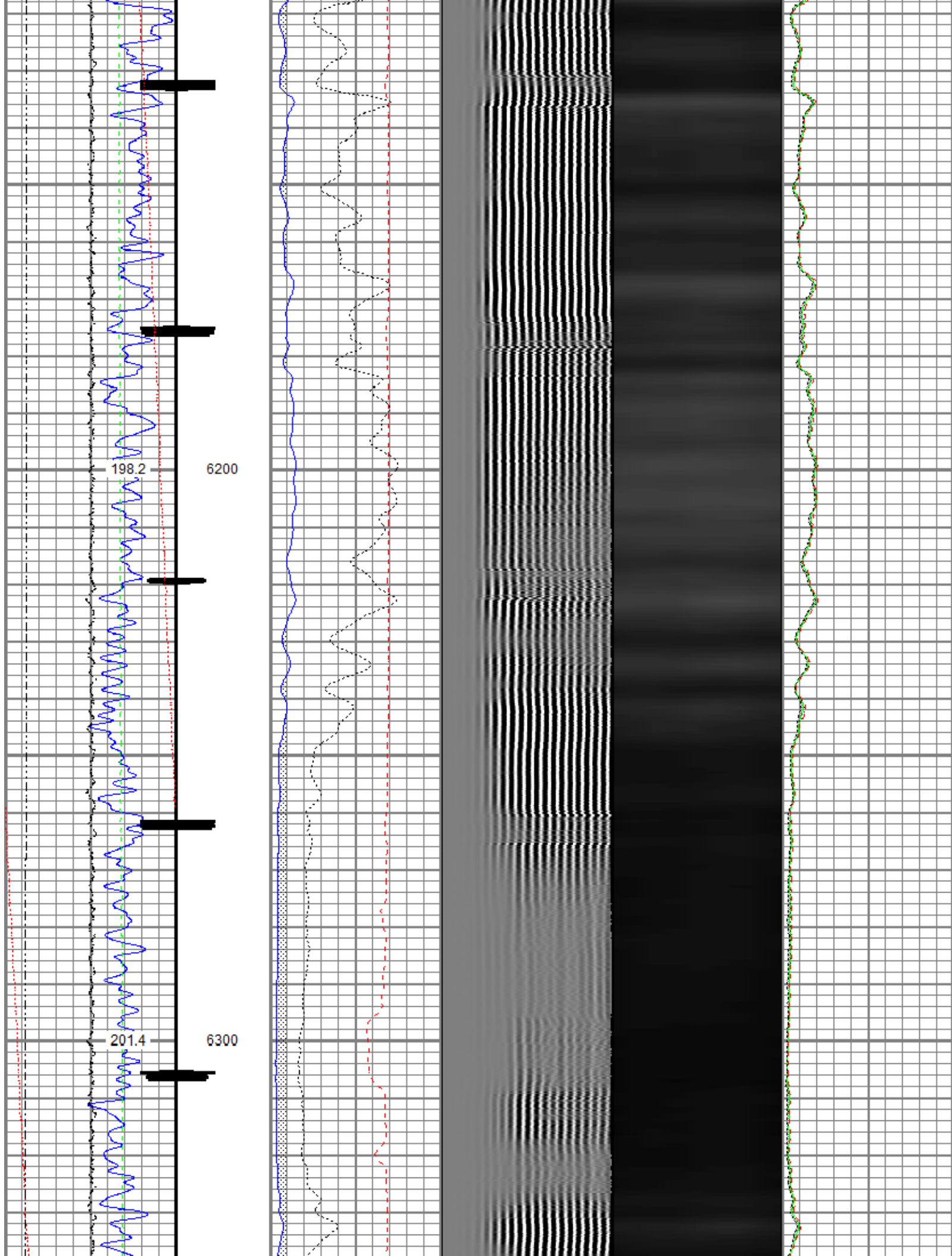


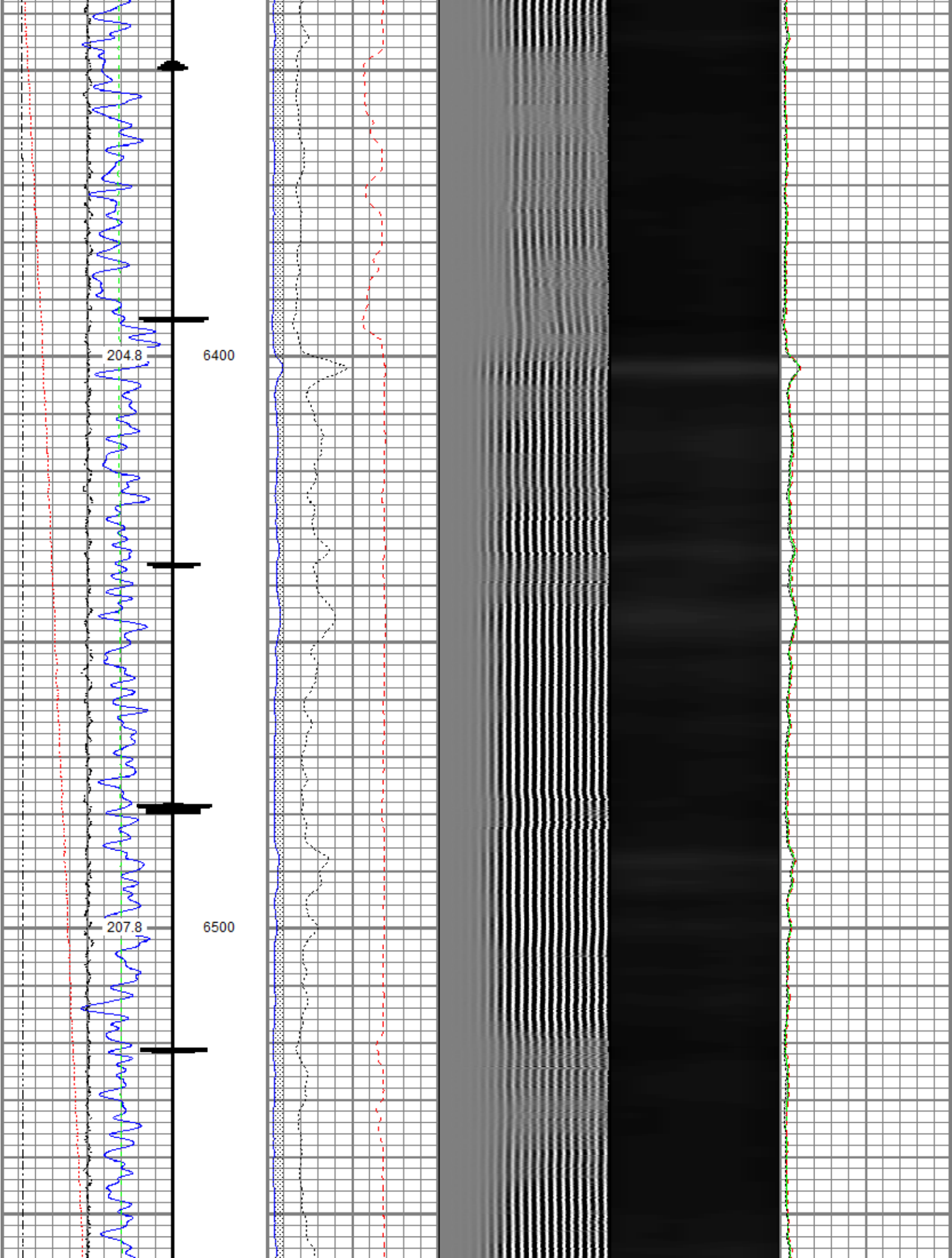


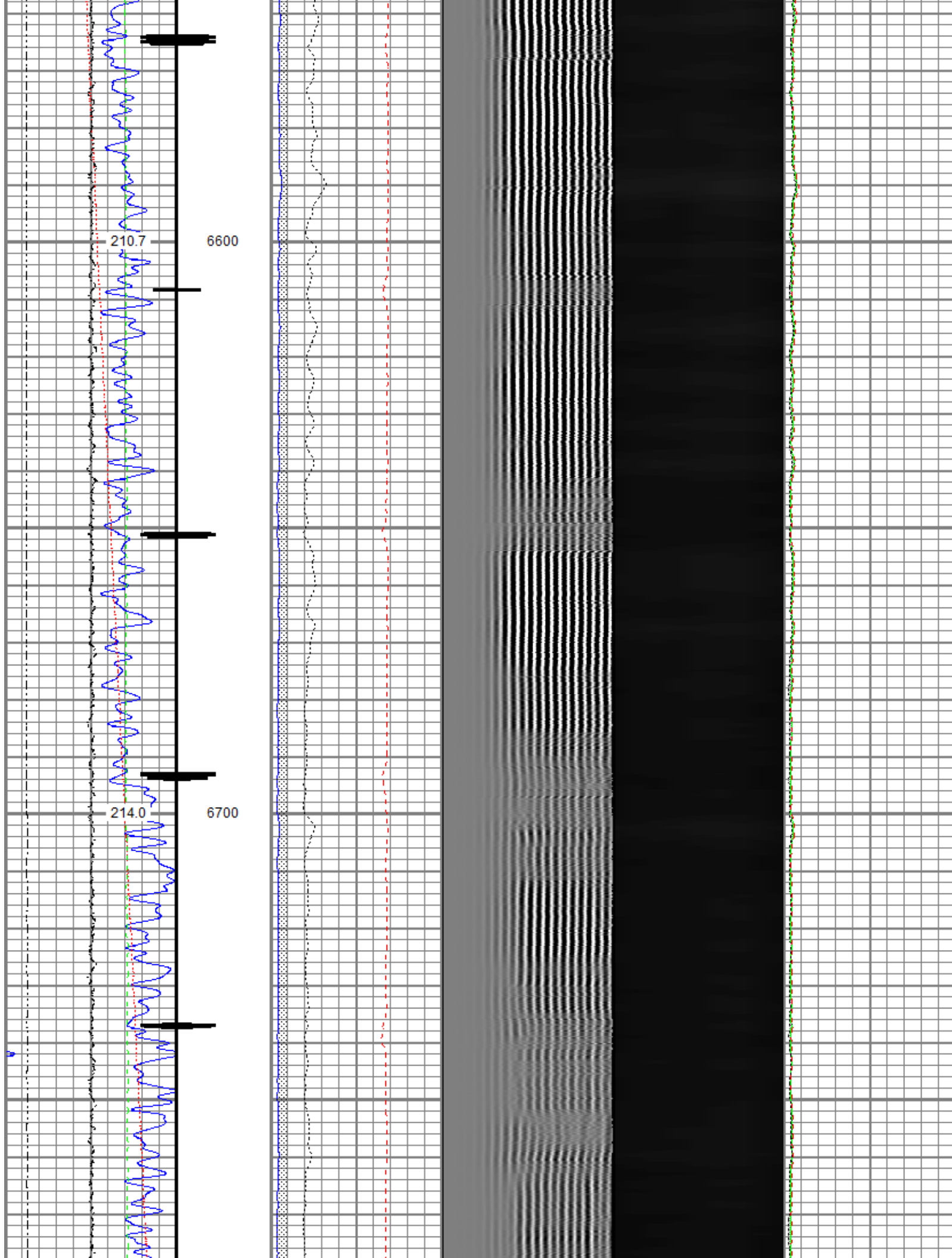


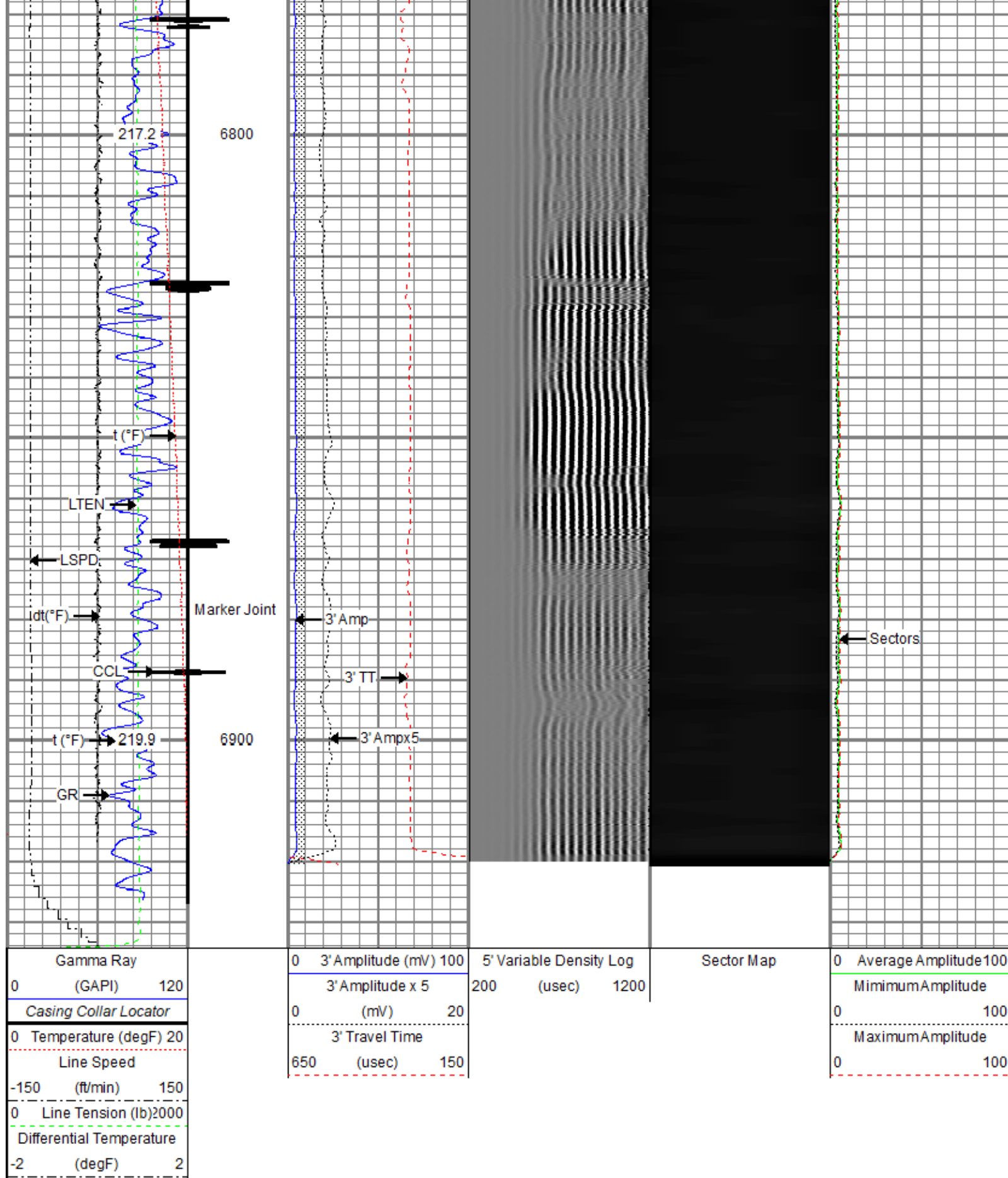






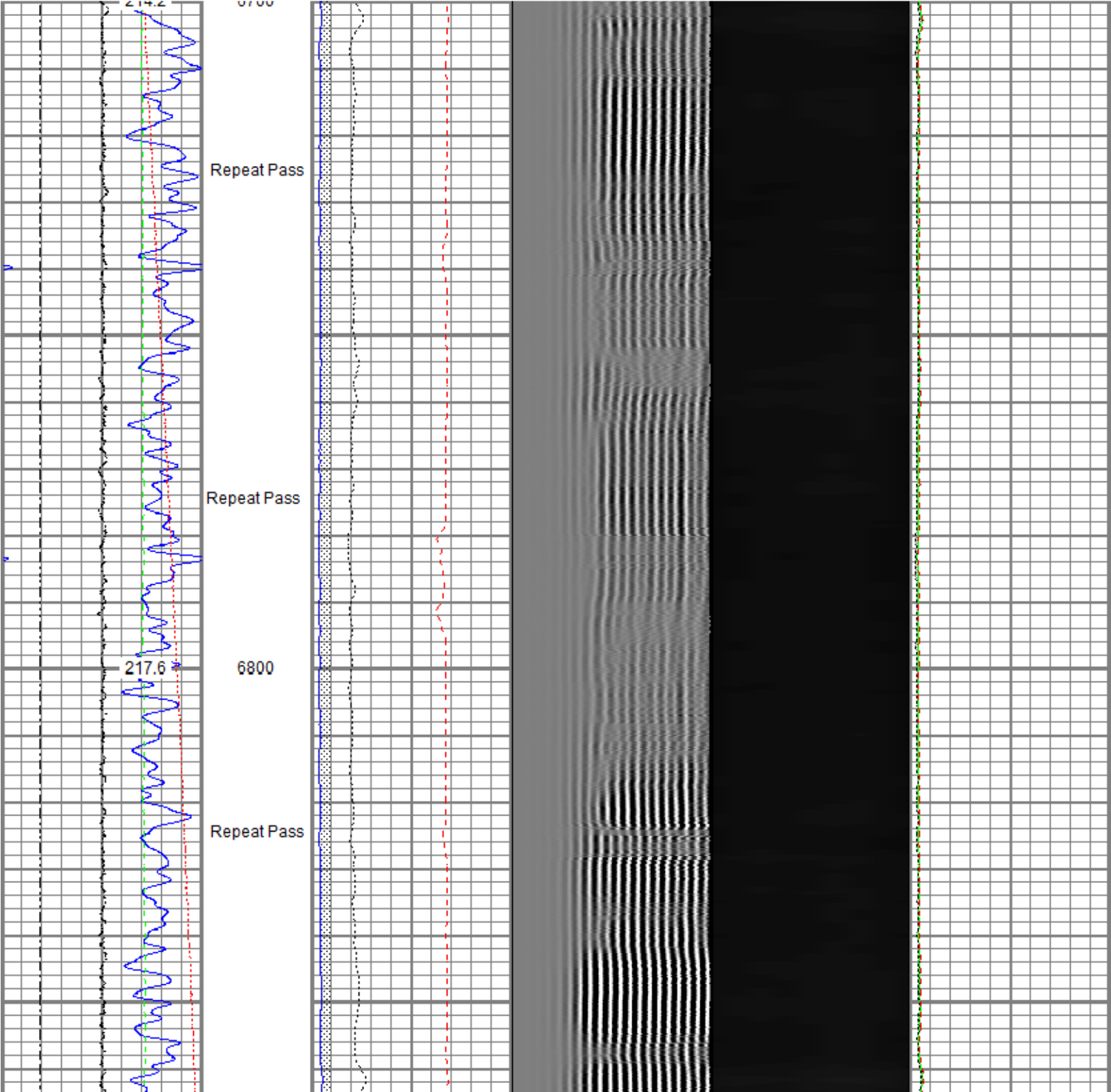


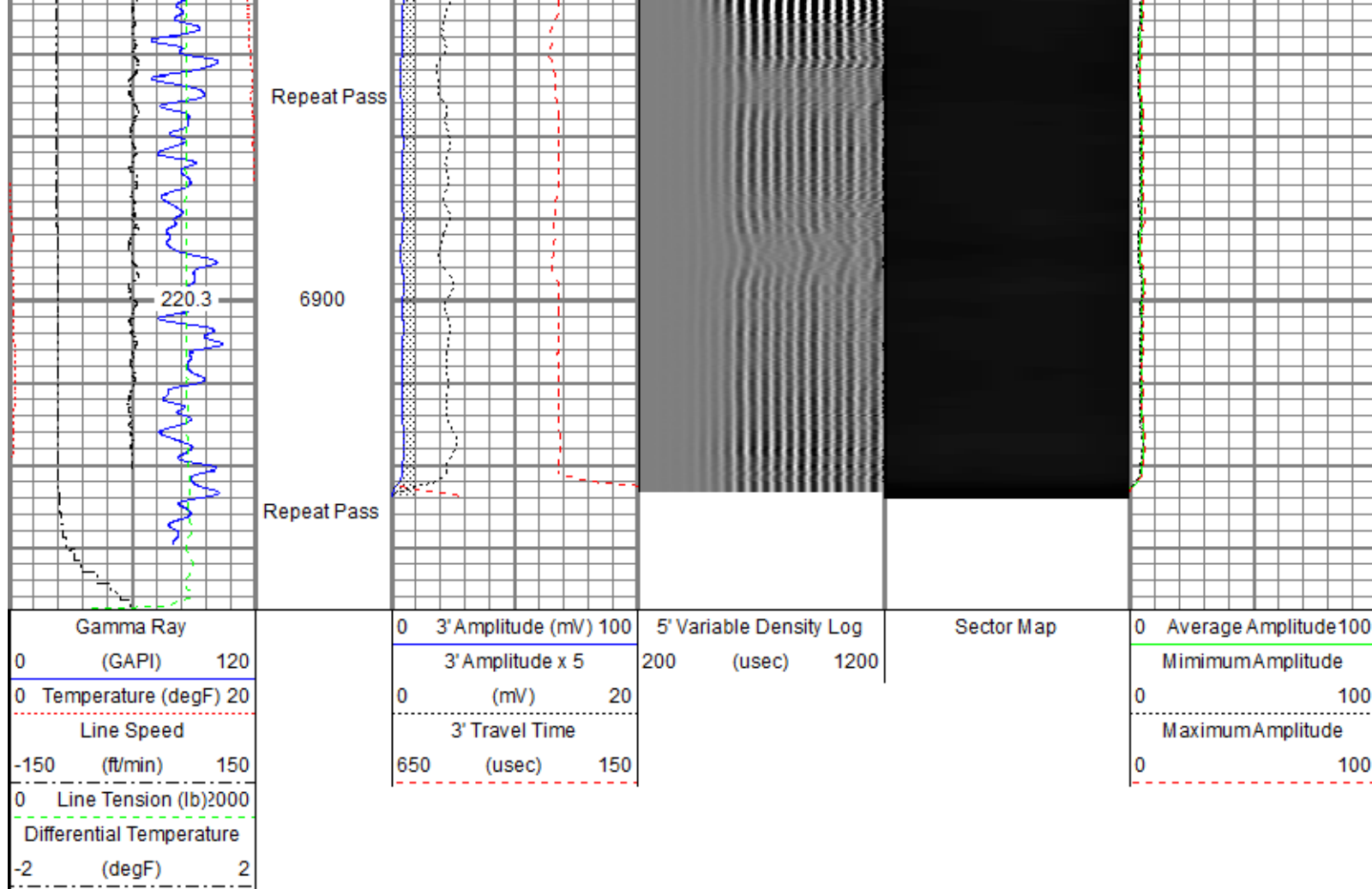






Database File	anadarko\papa jo 2-25 35n2-17hz\0512345506_anadarko_papa jo 2-25 35n2-17hz_rbl_03-28-18_2800 psi.db
Dataset Pathname	pass2.2
Presentation Format	ros_radrii
Dataset Creation	Thu Mar 29 10:19:24 2018
Charted by	Depth in Feet scaled 1:240

Gamma Ray		0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
0	(GAPI)	120	3' Amplitude x 5		200	(usec)	1200	Minimum Amplitude	
0	Temperature (degF)	20	0	(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)
			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 (FW1308-091) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
TEMP	17.33					
WVFS8	15.09					
WVFS7	15.09					
WVFS6	15.09					
WVFS5	15.09					
WVFS4	15.09					
WVFS3	15.09					
WVFS2	15.09					

WVFS1	15.09		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
WVFCAL	15.09					
WVF3FT	15.09					
WVF5FT	14.09					
CCL\$2	7.08		Probe GR-CCL-2750 6PB (FW1304-132) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00
CCL\$1	7.08					
GR	5.75					
			Probe ADPT-6P-GO Probe 2-3/4" 6-Pin Top to GO Bottom Adaptor Sub	0.28	2.75	2.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Dataset: 0512345506_Anadarko_Papa Jo 2-25 35N2-17HZ_RBL_03-28-18_2800 PSI.db: field/well/run1/pass4.1 Total length: 24.15 ft Total weight: 225.60 lb O.D.: 2.75 in						

Calibration Report						
Database File	C:\ProgramData\Warrior\Data\Anadarko\Papa Jo 2-25 35N2-17HZ\0512345506_Anadarko_Papa Jo 2-25 35N2-17HZ_RBL_03-28-18_2800 PSI.db: field/well/run1/pass4.1					
Dataset Pathname	pass4.1					
Dataset Creation	Wed Mar 28 09:14:04 2018					
Gamma Ray Calibration Report						
Serial Number:	FW1304-132					
Tool Model:	2750 6PB					
Performed:	Tue Nov 28 11:17:11 2017					
Calibrator Value:	637.0	GAPI				
Background Reading:	109.1	cps				
Calibrator Reading:	1009.7	cps				
Sensitivity:	0.7072	GAPI/cps				
Segmented Cement Bond Log Calibration Report						
Serial Number:	FW1308-091					
Tool Model:	2750 RBT					
Calibration Casing Diameter:	5.500	in				
Calibration Depth:	-0.243	ft				
Master Calibration, performed Wed Mar 28 06:46:04 2018:						
Raw (v)		Calibrated (mv)		Results		
Zero	Cal	Zero	Cal	Gain	Offset	

3'	0.007	0.486	0.800	71.921	148.458	-0.293
CAL	0.007	0.509				
5'	0.007	0.432	0.800	71.921	167.353	-0.426
SUM						
S1	0.007	0.482	0.000	100.000	210.830	-1.544
S2	0.007	0.488	0.000	100.000	207.998	-1.529
S3	0.007	0.486	0.000	100.000	209.086	-1.529
S4	0.007	0.483	0.000	100.000	210.299	-1.538
S5	0.007	0.486	0.000	100.000	209.097	-1.531
S6	0.007	0.490	0.000	100.000	207.287	-1.493
S7	0.007	0.489	0.000	100.000	207.513	-1.517
S8	0.007	0.487	0.000	100.000	208.257	-1.515

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.509	1.000	0.000

Air Zero Calibration, performed Wed Mar 28 06:46:41 2018:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.007		0.000		0.000	
5'	0.007		0.000		0.000	
SUM						
S1	0.007		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	0.007		0.000		-0.000	
S7	0.007		0.000		-0.000	
S8	0.007		0.000		-0.000	

Temperature Calibration Report

Serial Number: FW1308-091
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:50:54 2017

	Reference	Reading
Low Reference:	100.00 degF	104.72 degF
High Reference:	350.00 degF	392.24 degF
Gain:	0.87	
Offset:	8.94	
Delta Spacing	1	



Company Kerr-McGee Oil & Gas Onshore, L.P.
Well Papa Jo 2-25 35N2-17HZ
Field Wattenberg
County Weld
State Colorado