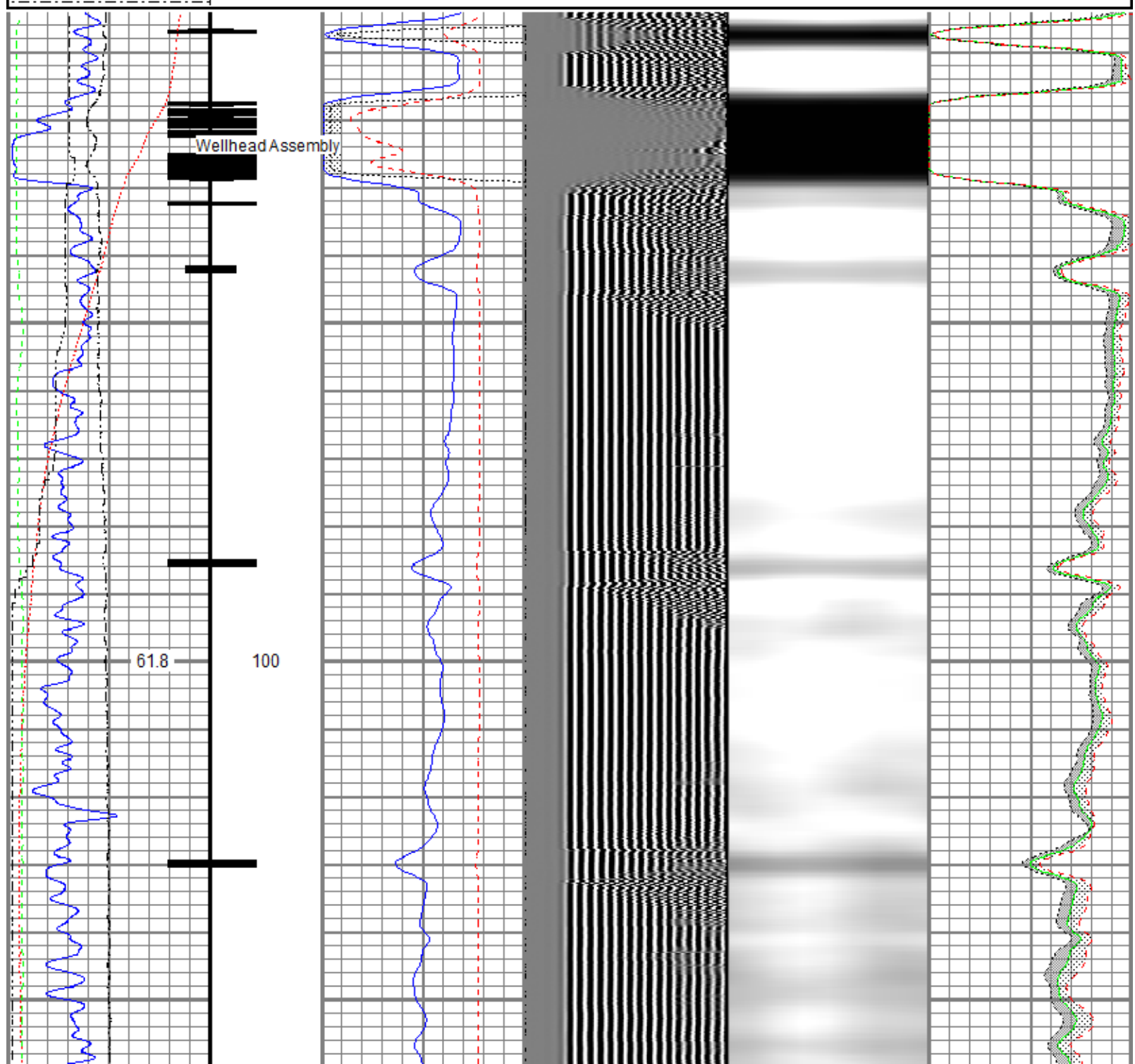


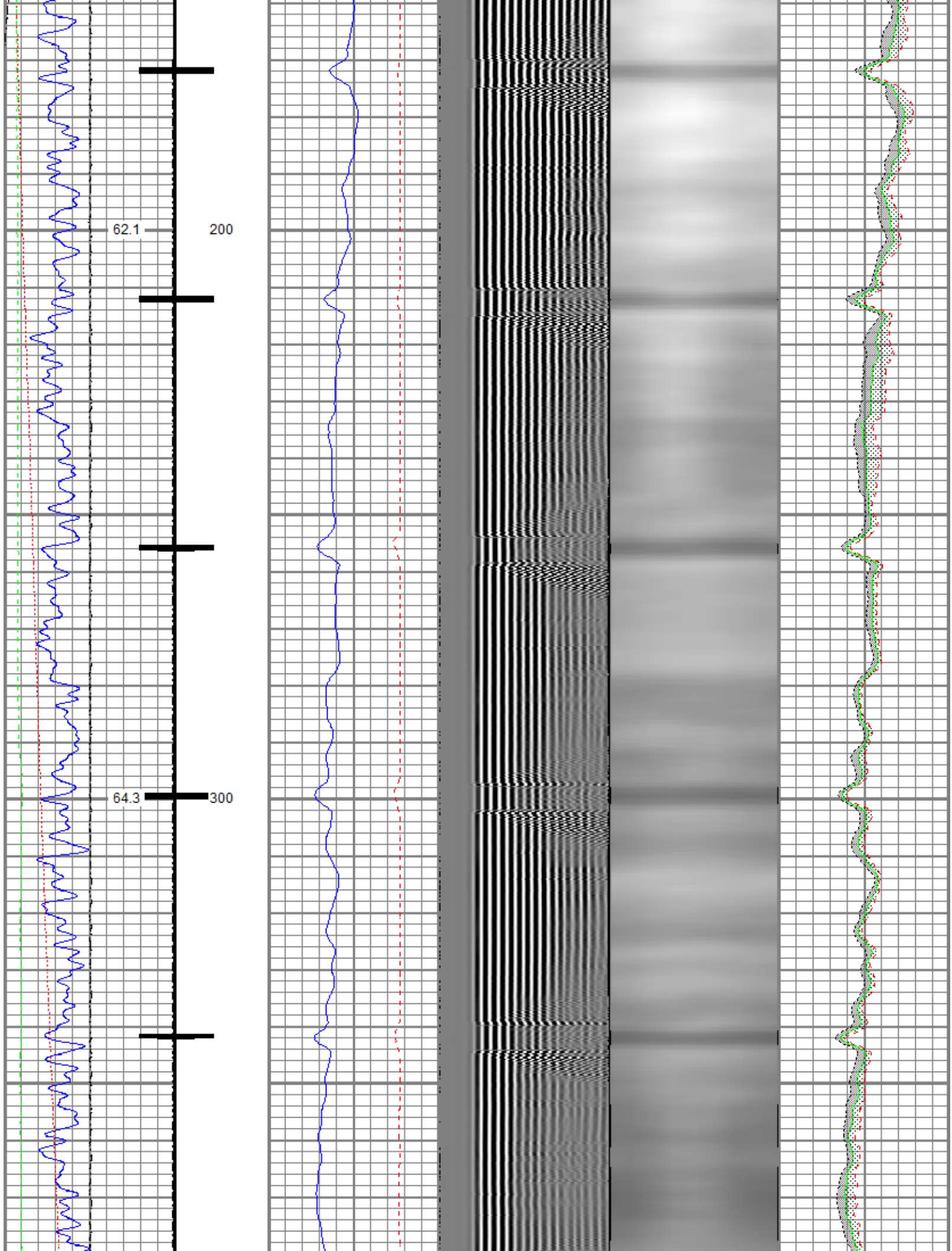


<<< Fold Here >>>
<p>All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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.</p>
Comments
<p>Log ran as per customer request  Depth referenced to Casing Tally reported Marker Joint at 6551 FT  Adjusted log +1 FT To Correlate with Marker Joint  Ran JB/GR down to 7459 FT  Log ran from 6586 FT to Surface  Log ran with 2800 PSI Surface Induced Pressure  Logging tools were clean and free of debris upon completion of operations</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!!</p>

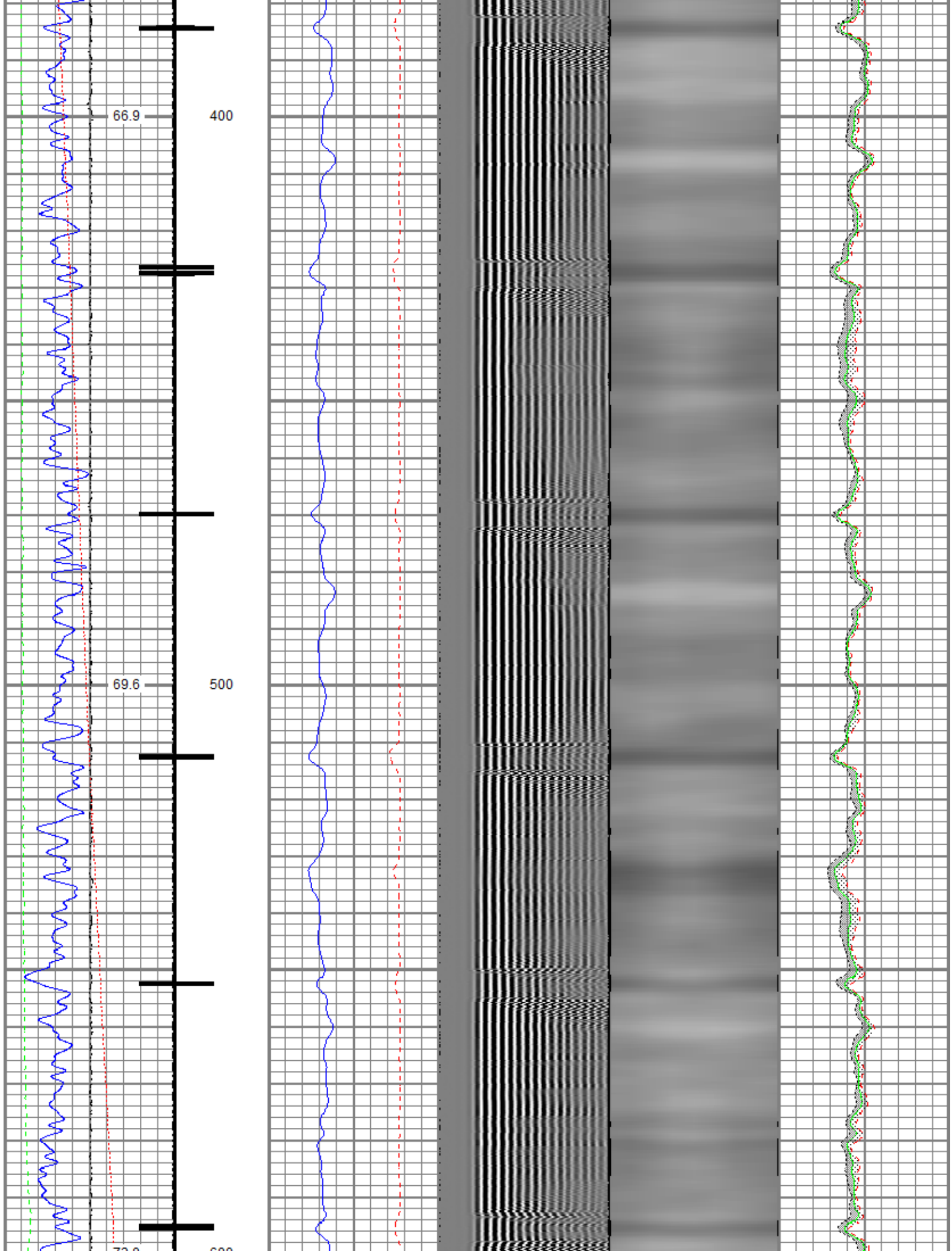
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Dataset Pathname	pass4.1
Presentation Format	ros_radri
Dataset Creation	Mon Sep 17 11:00:47 2018
Charted by	Depth in Feet scaled 1:240

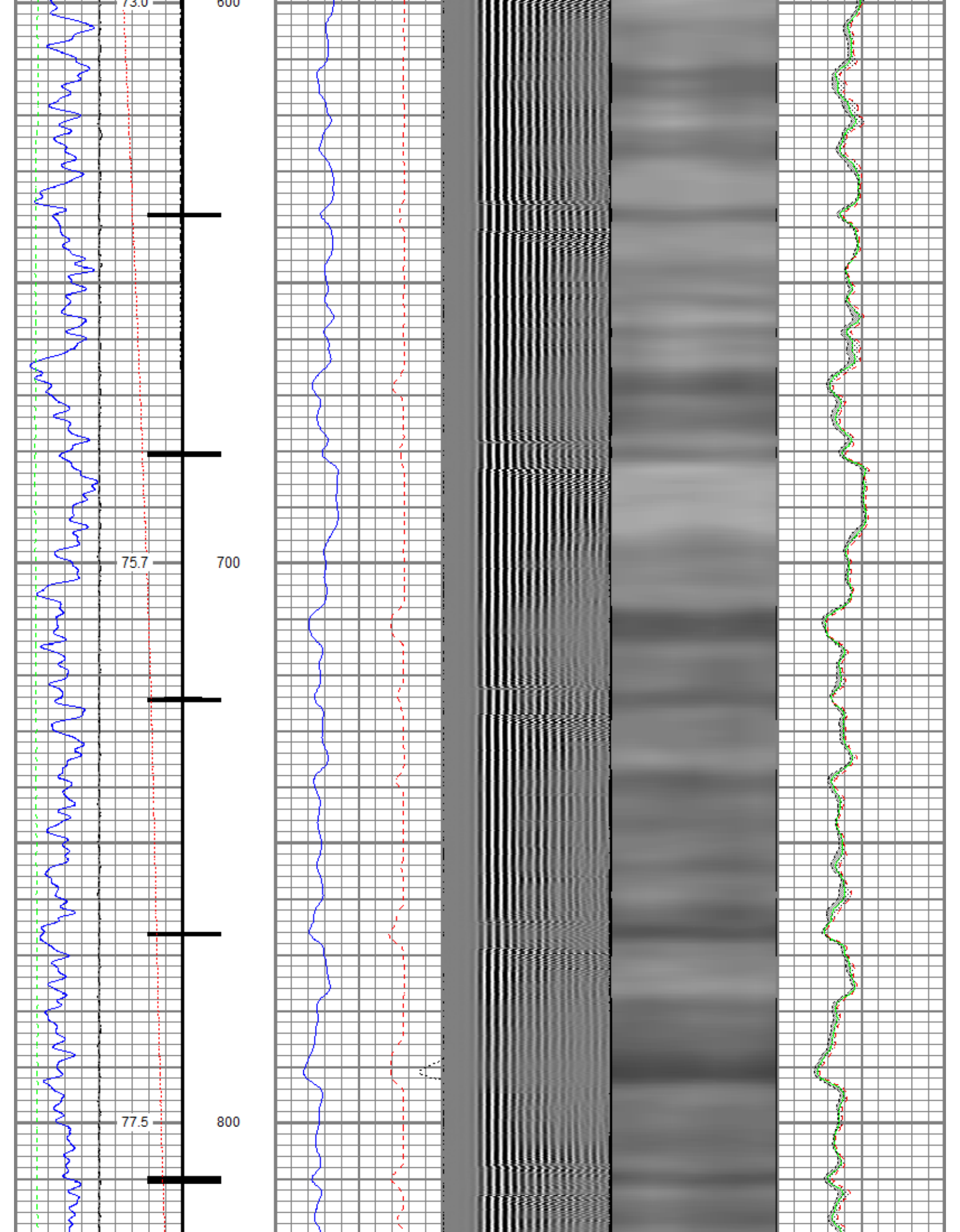
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min) 150				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

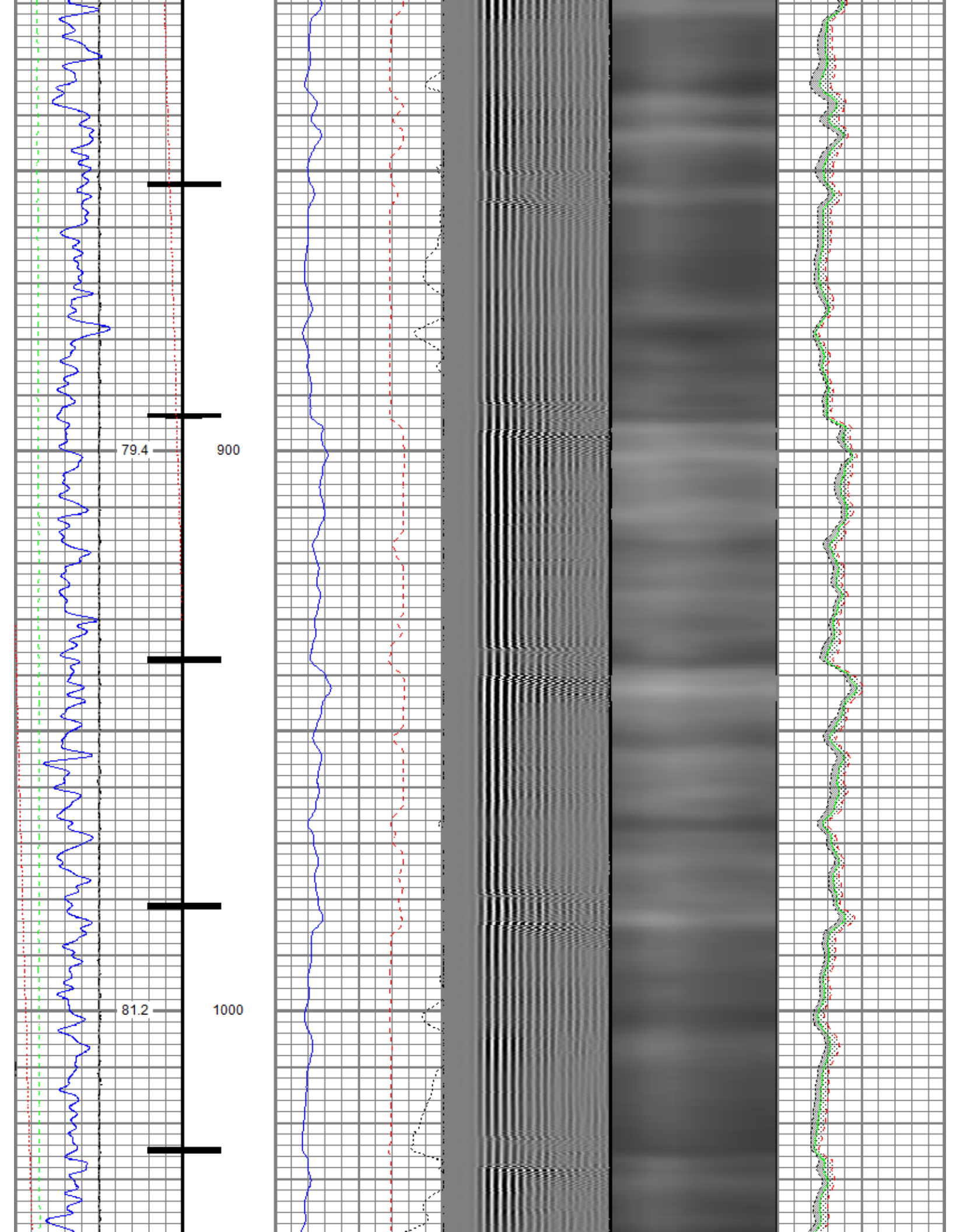


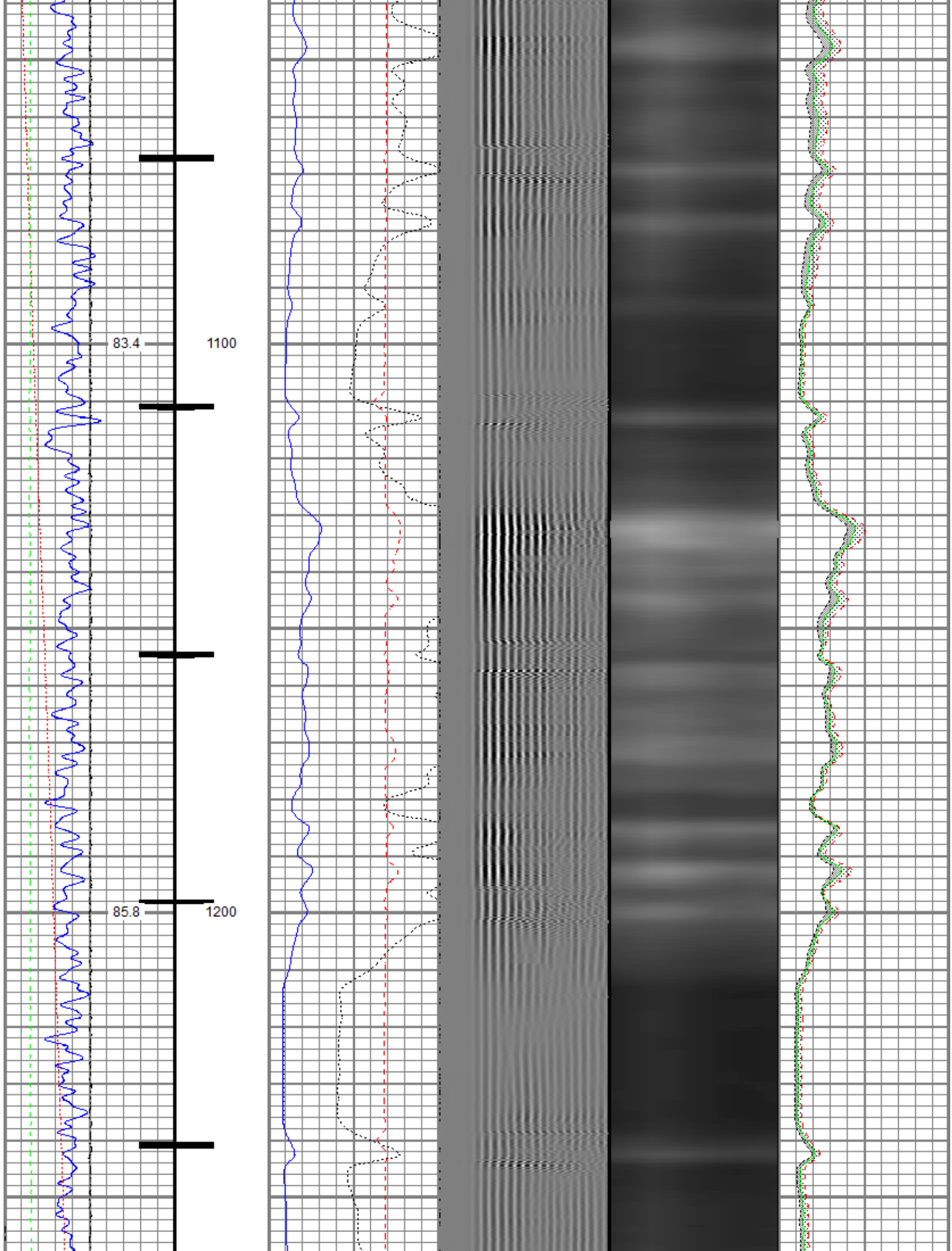




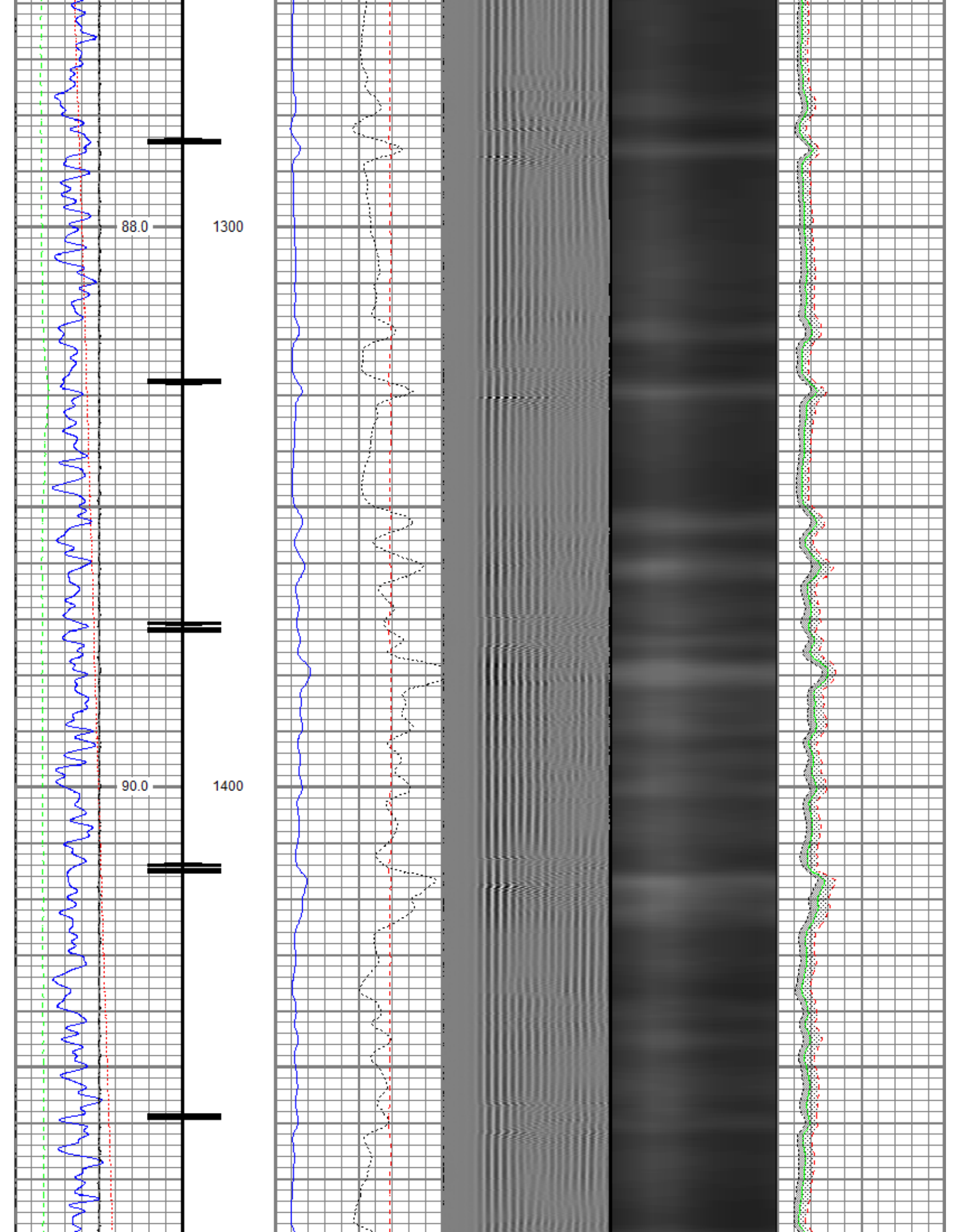




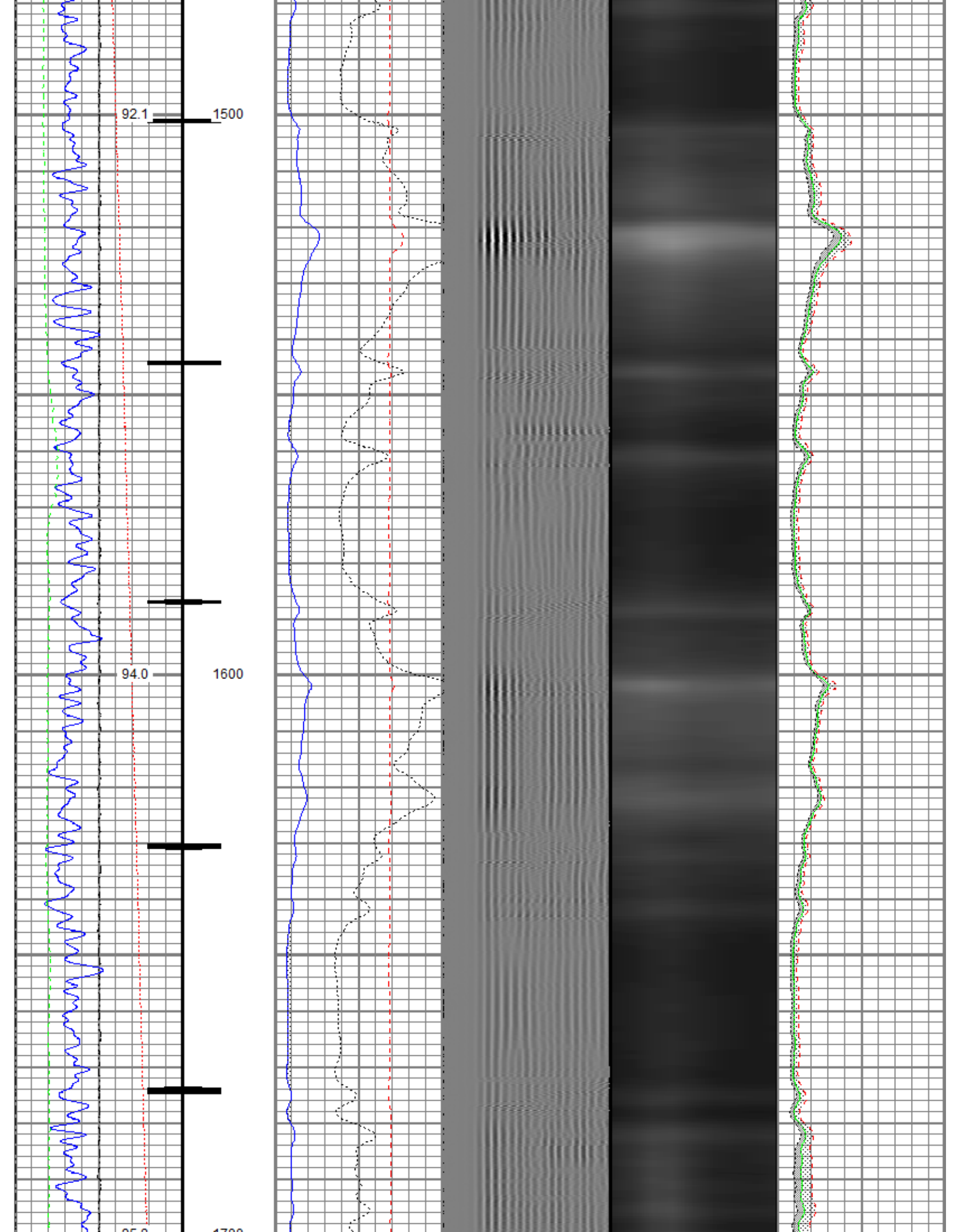


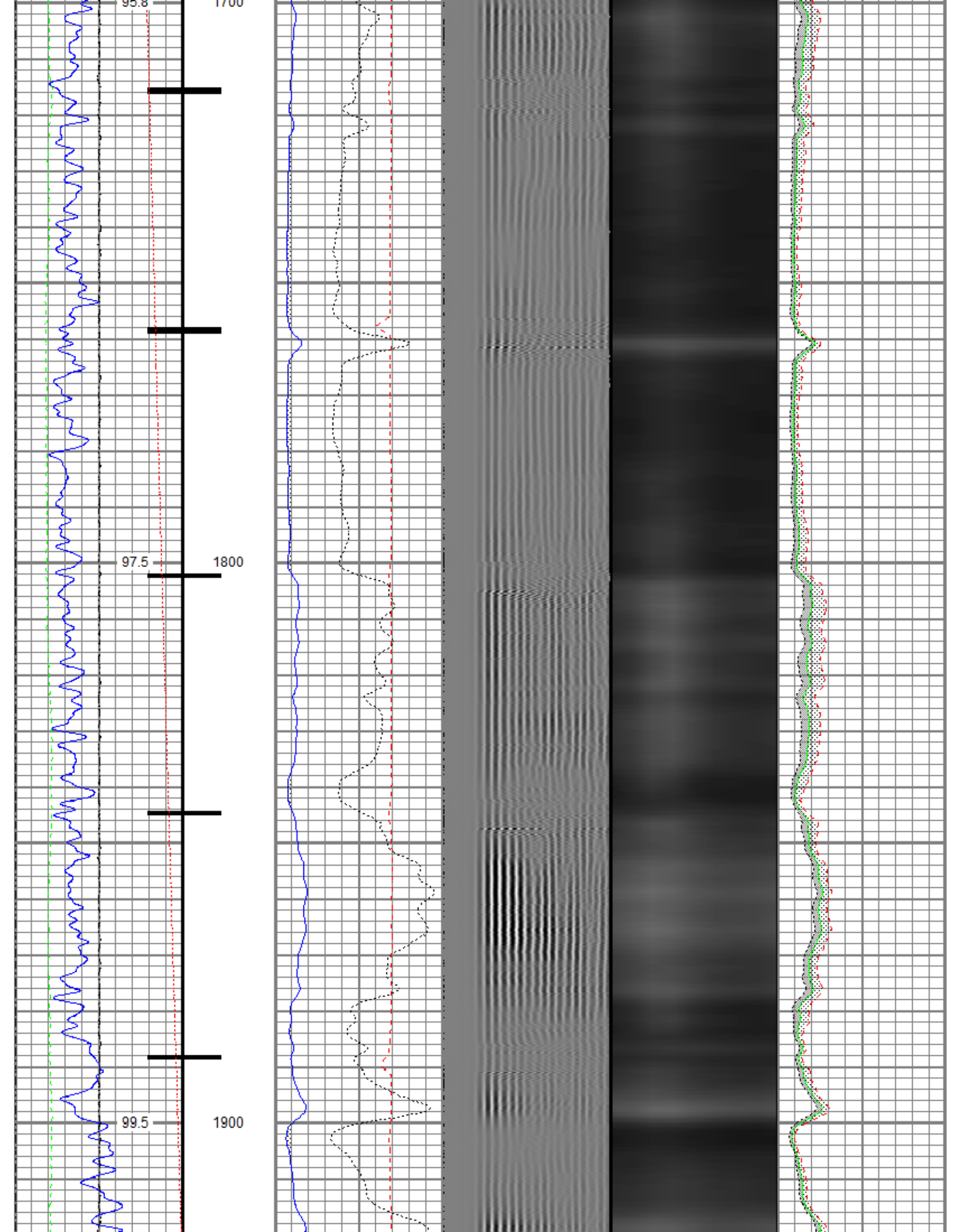


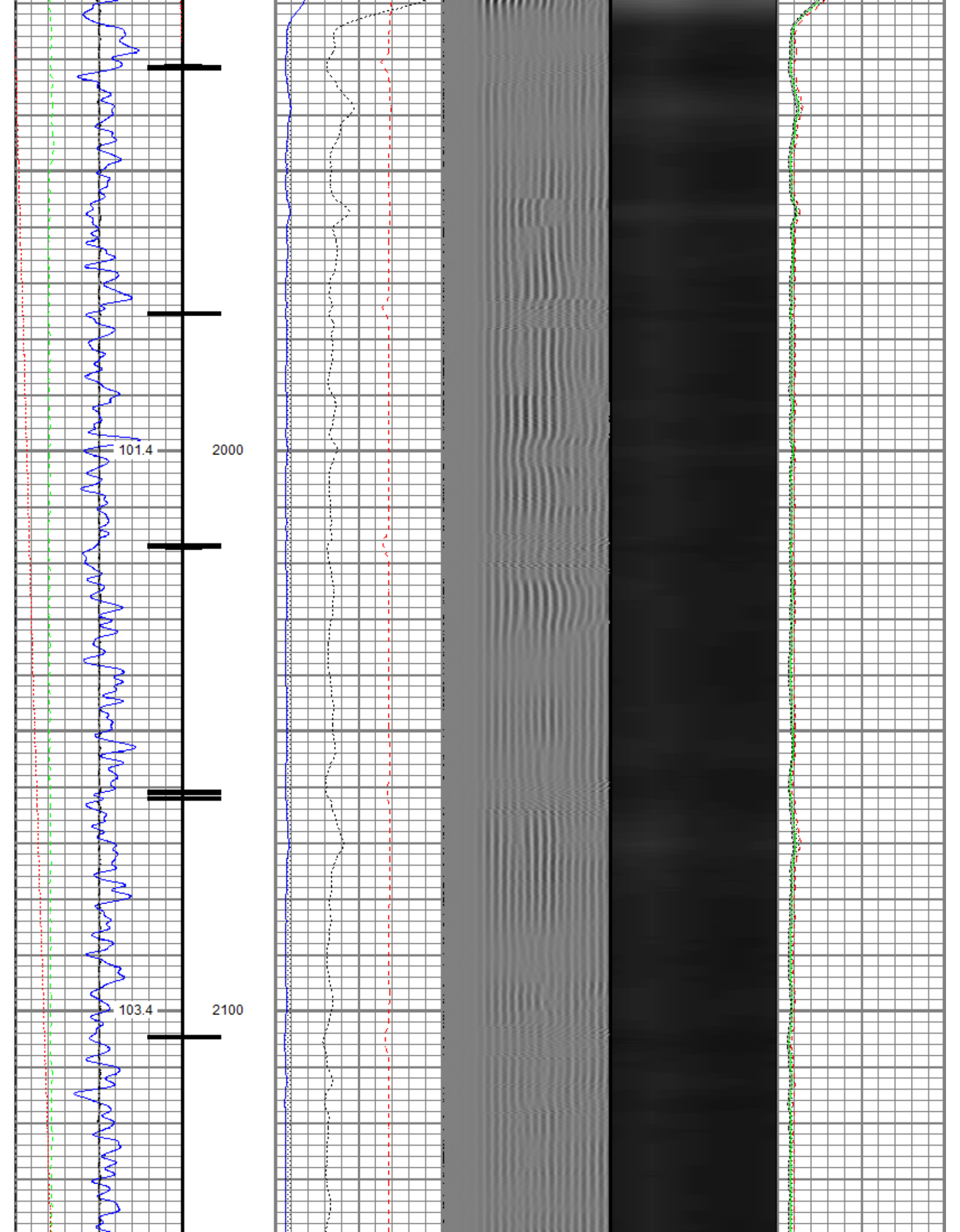


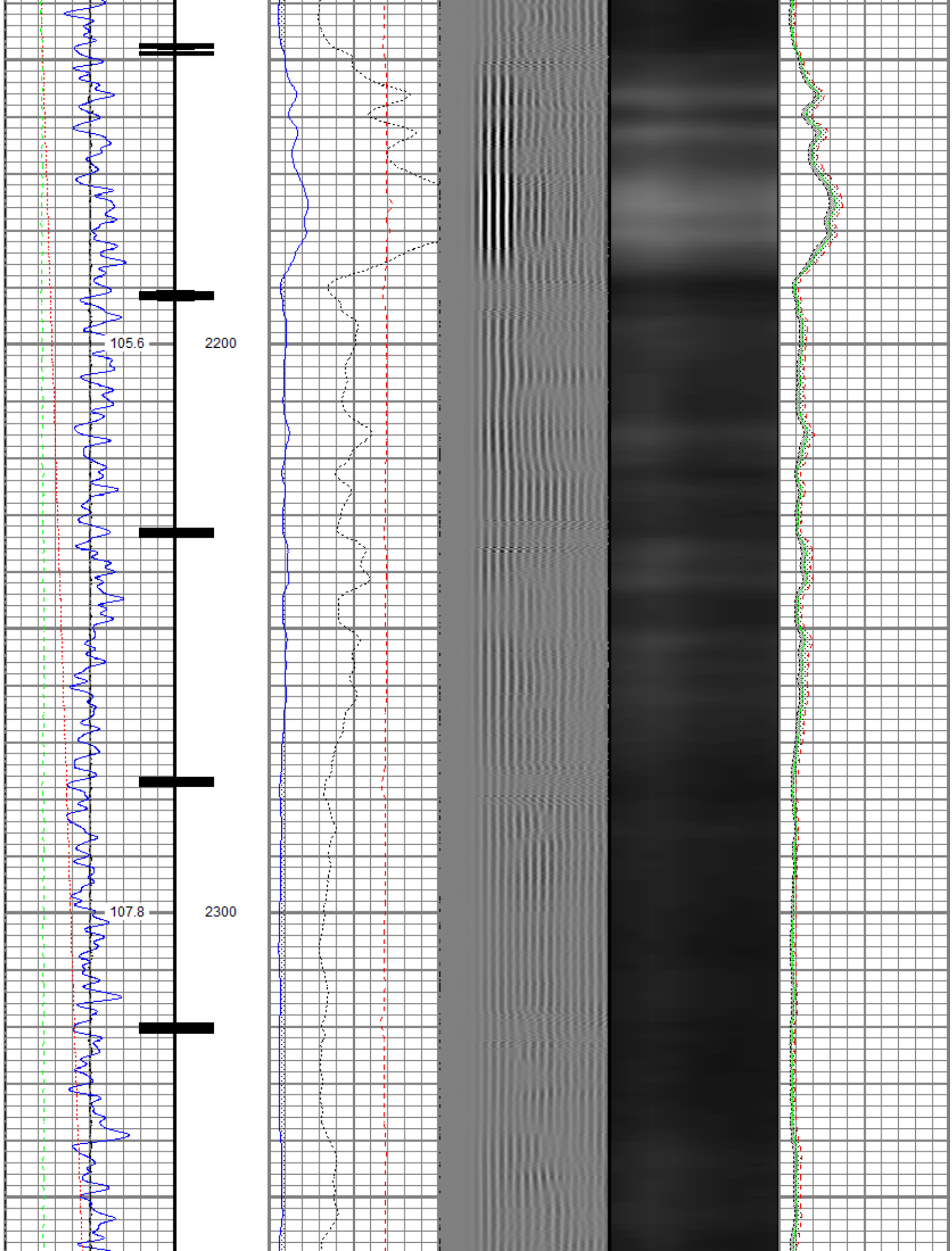




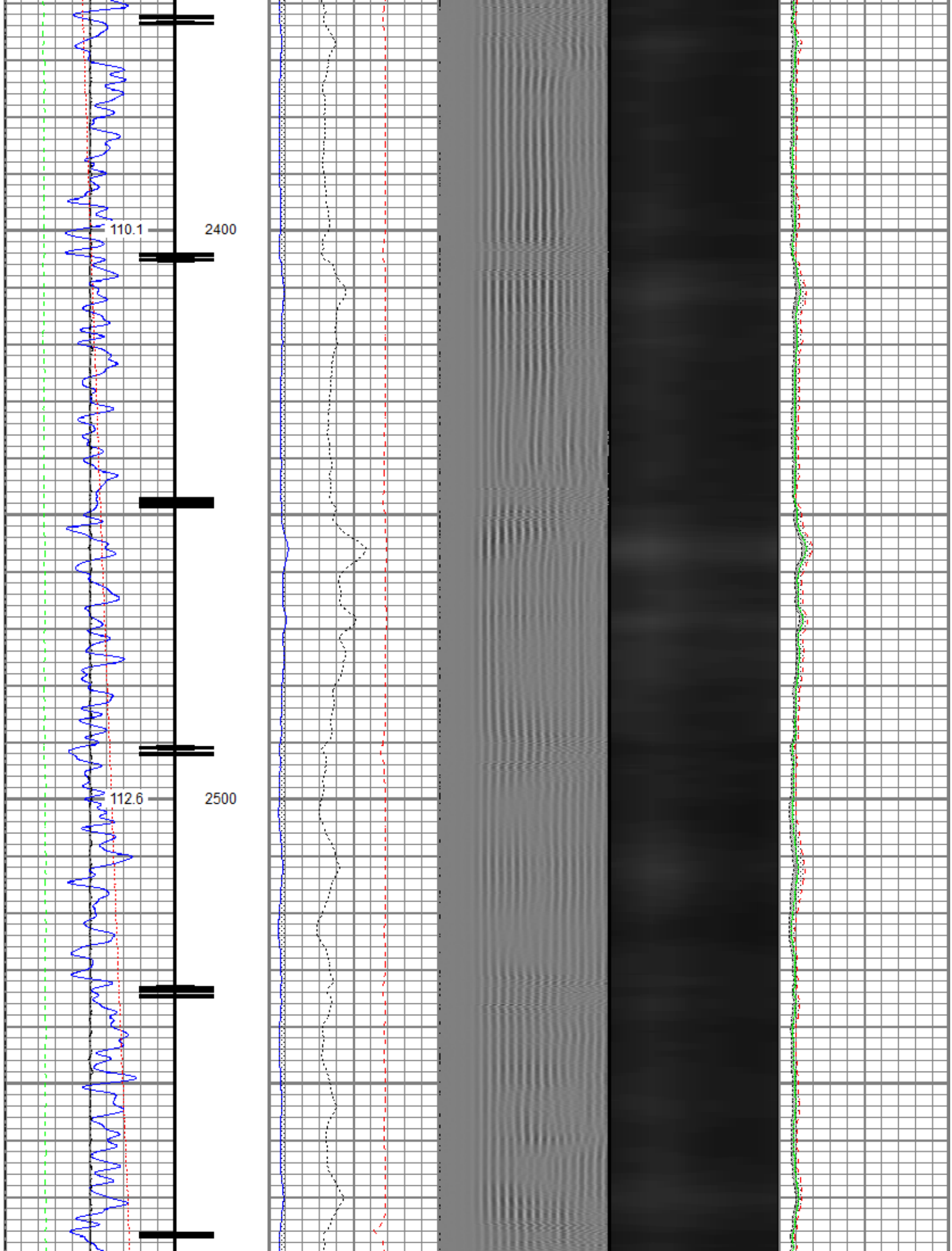


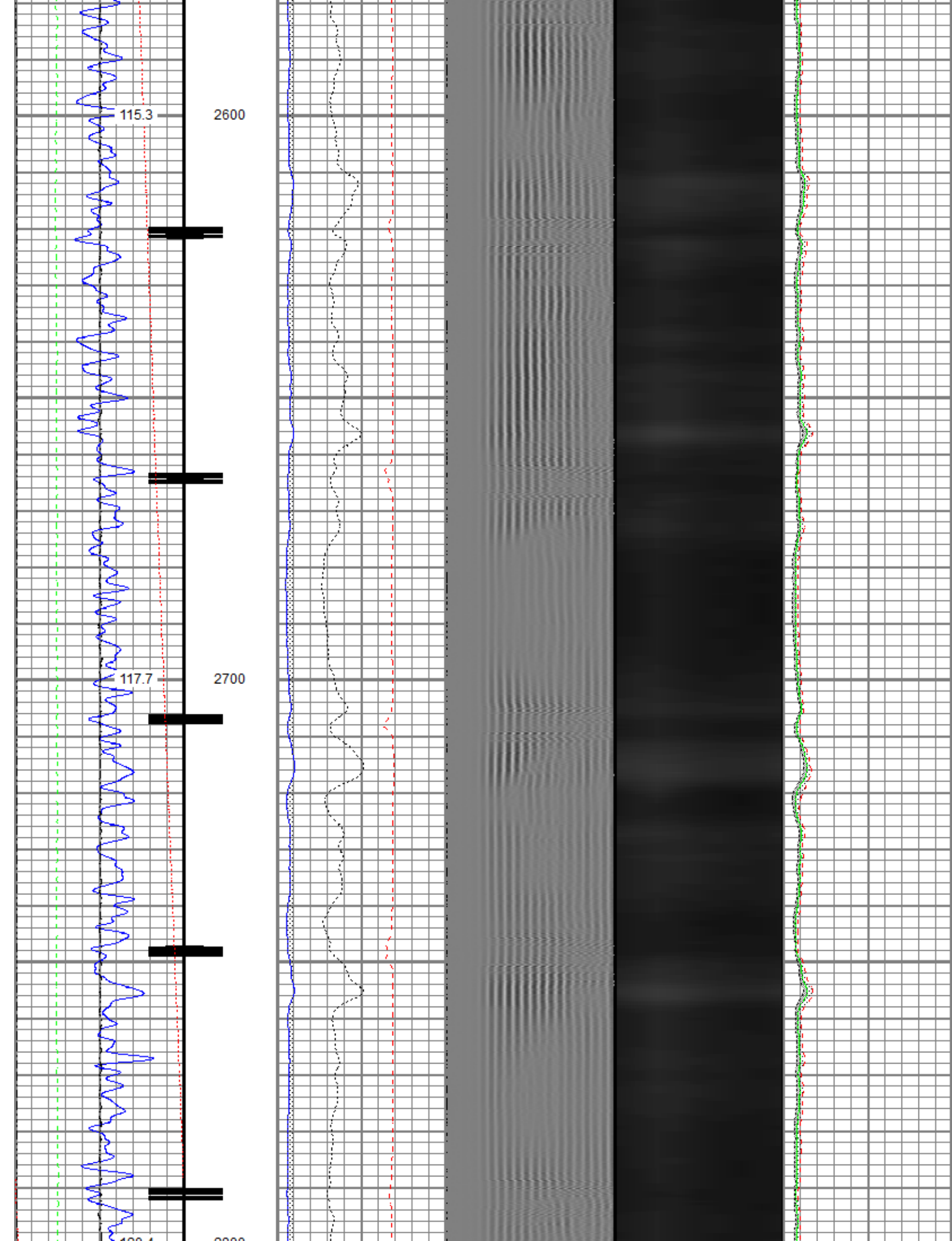


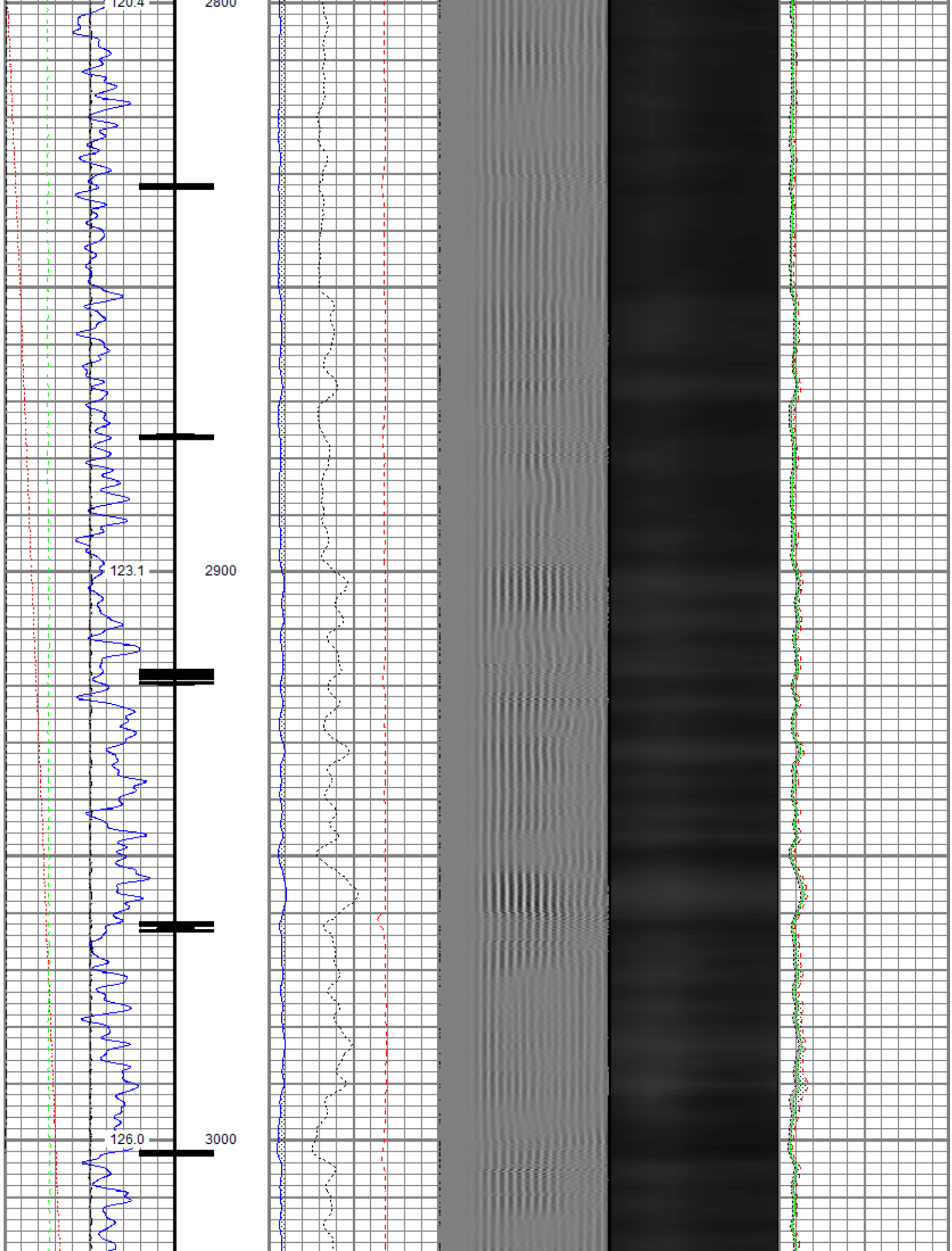


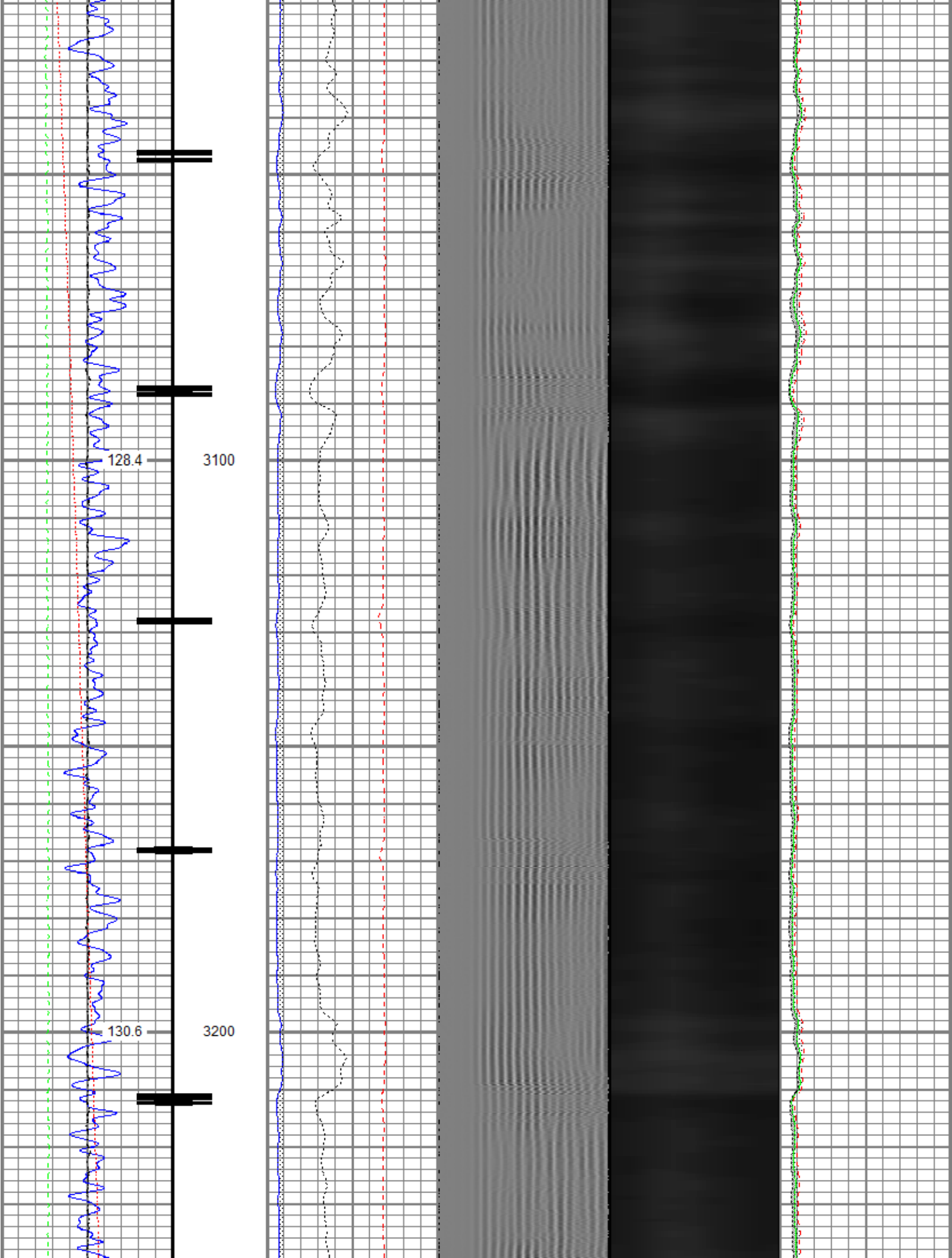




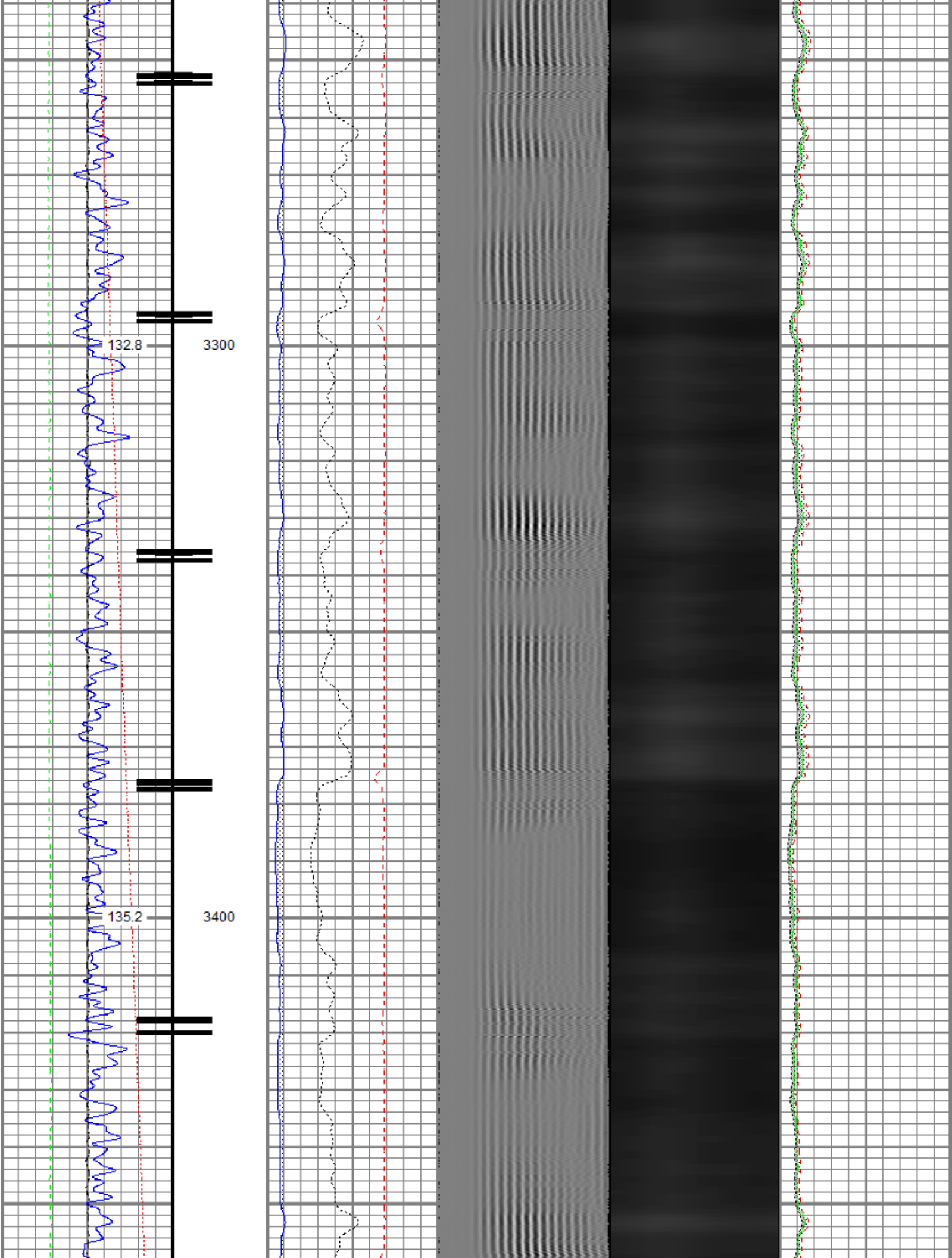


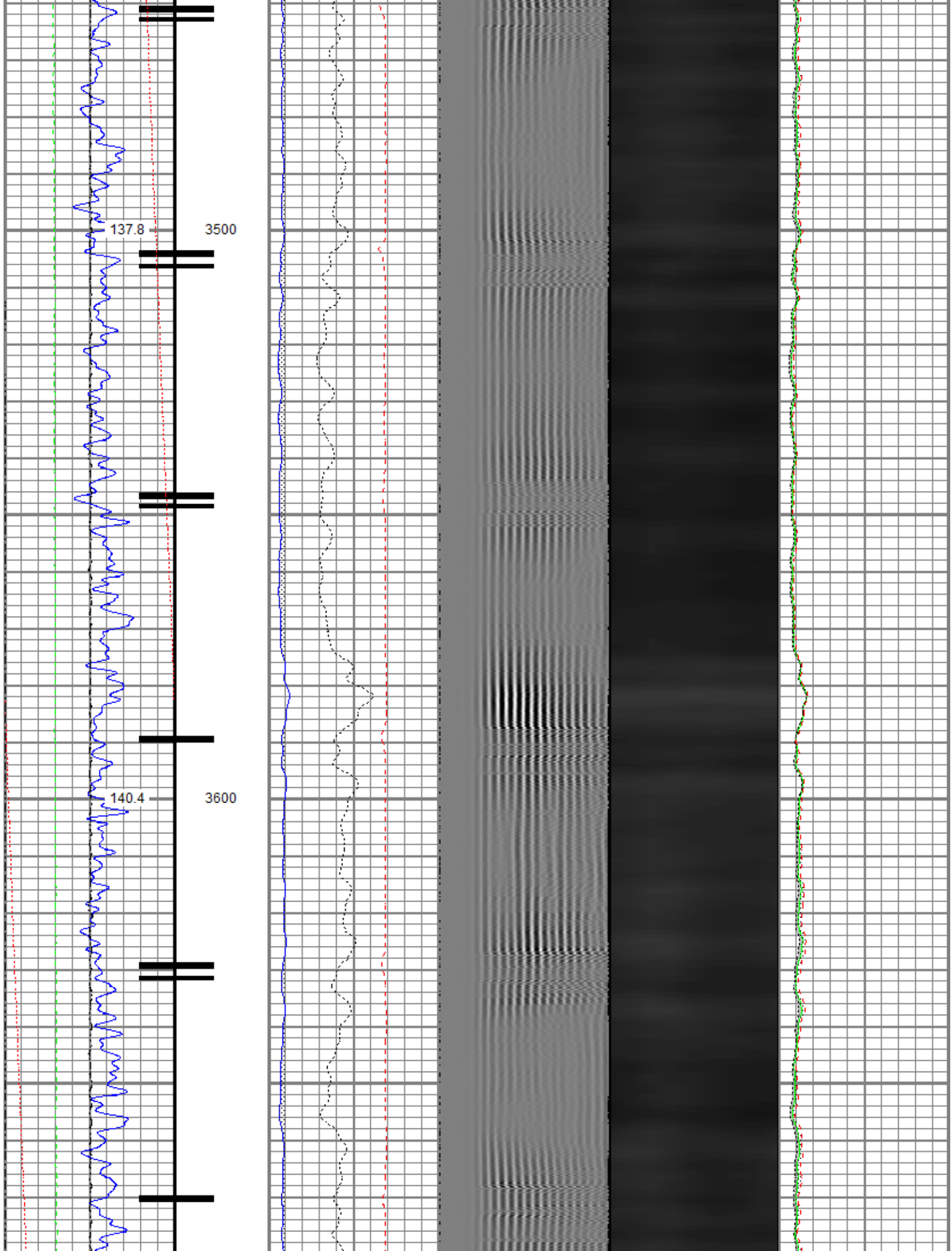


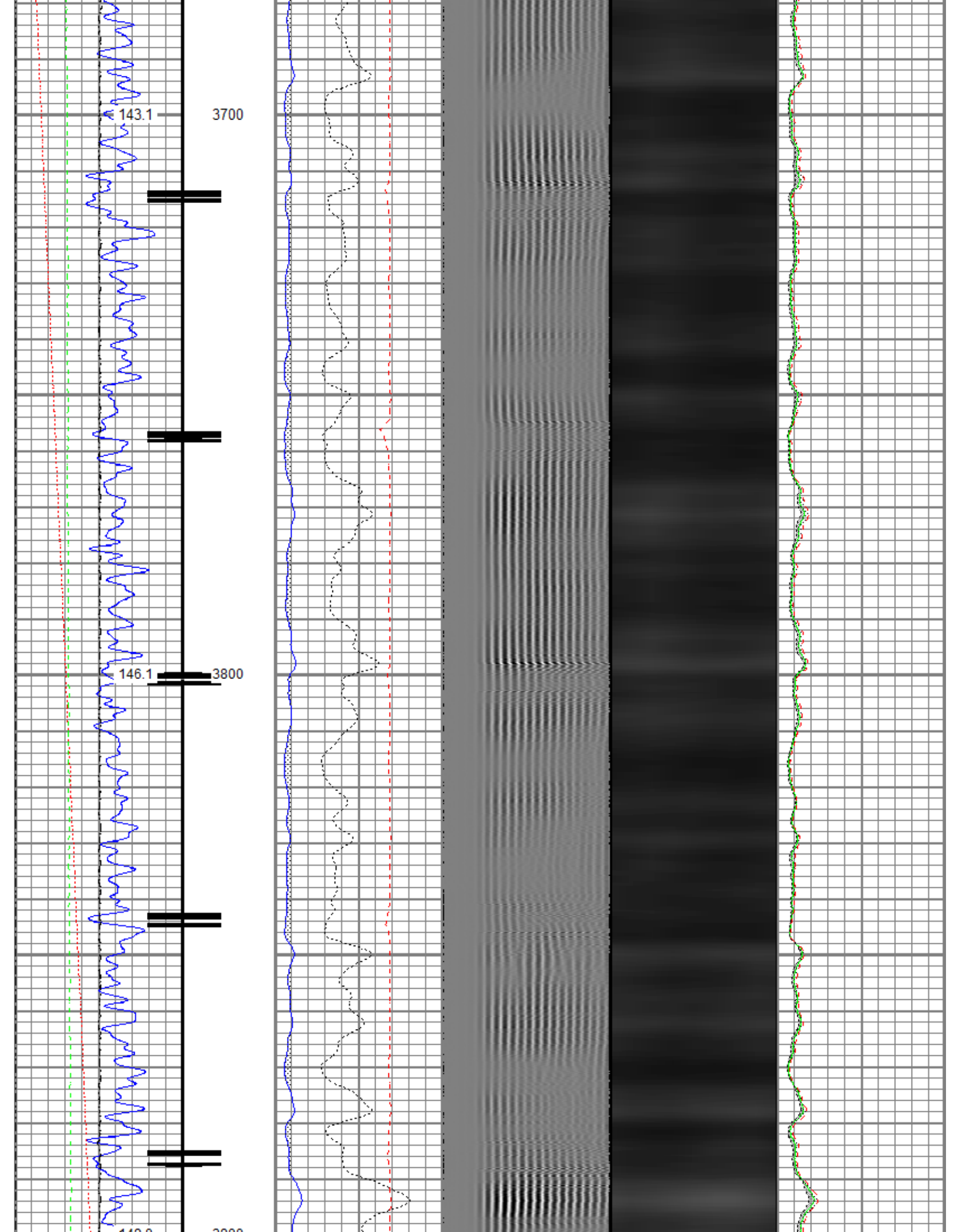


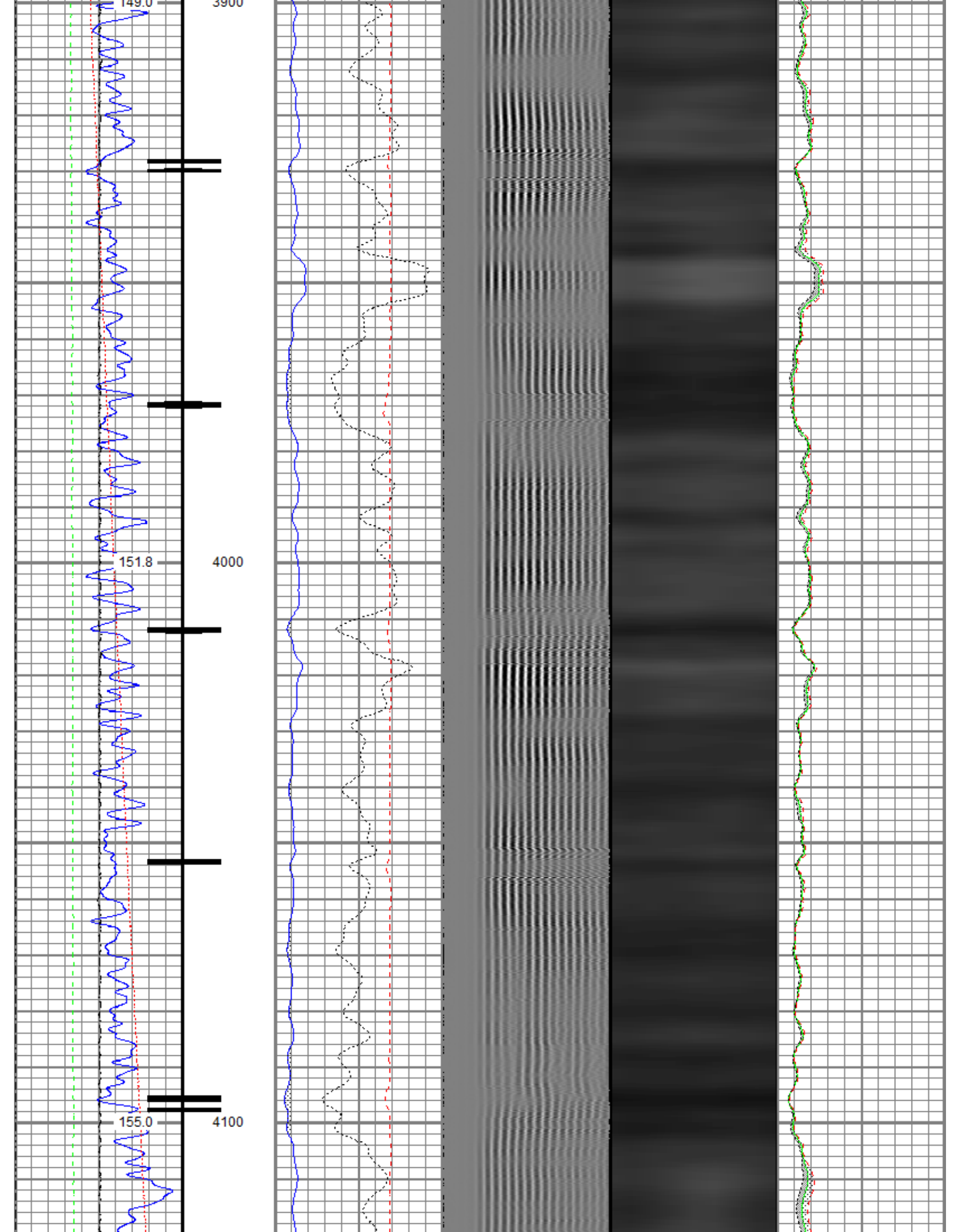




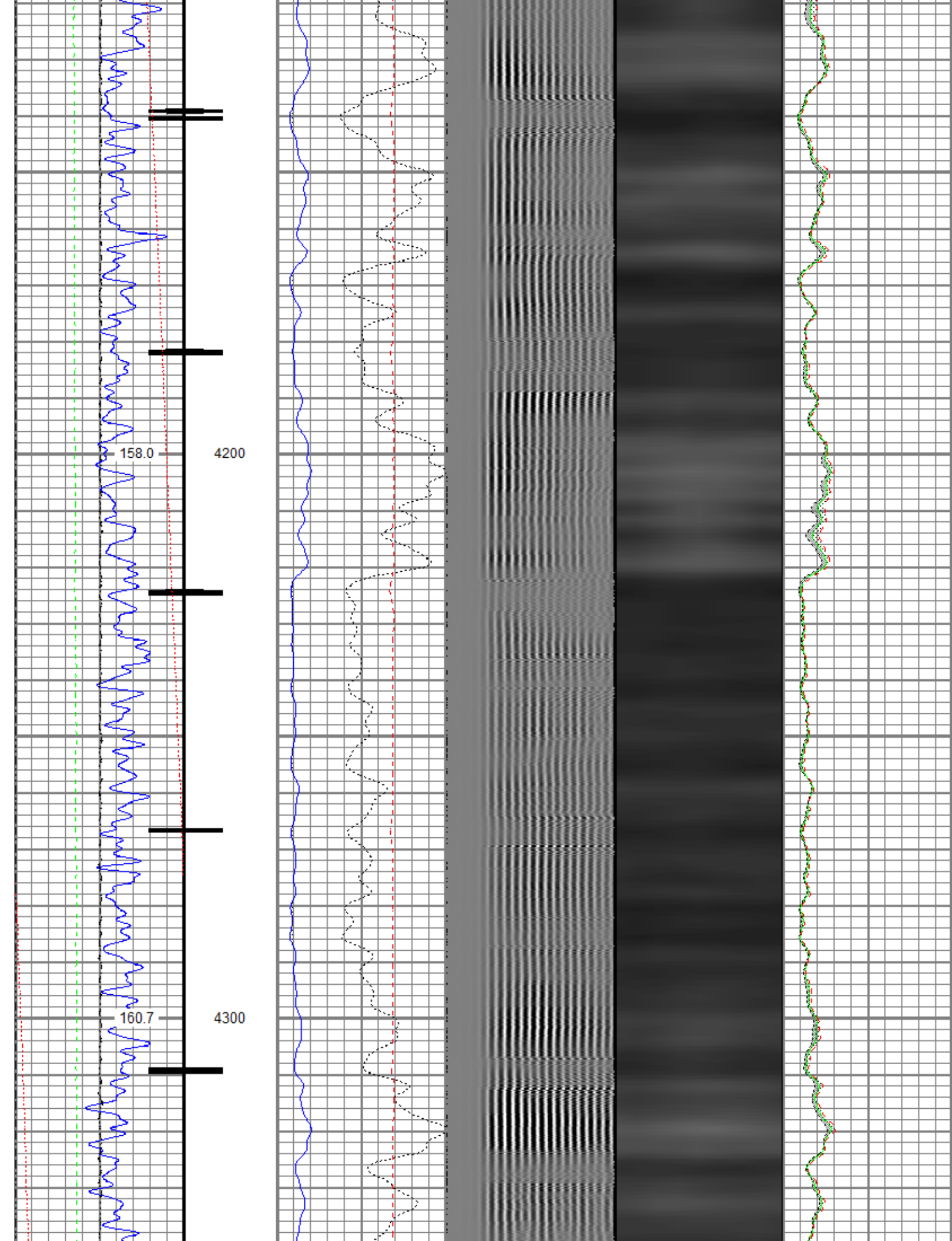


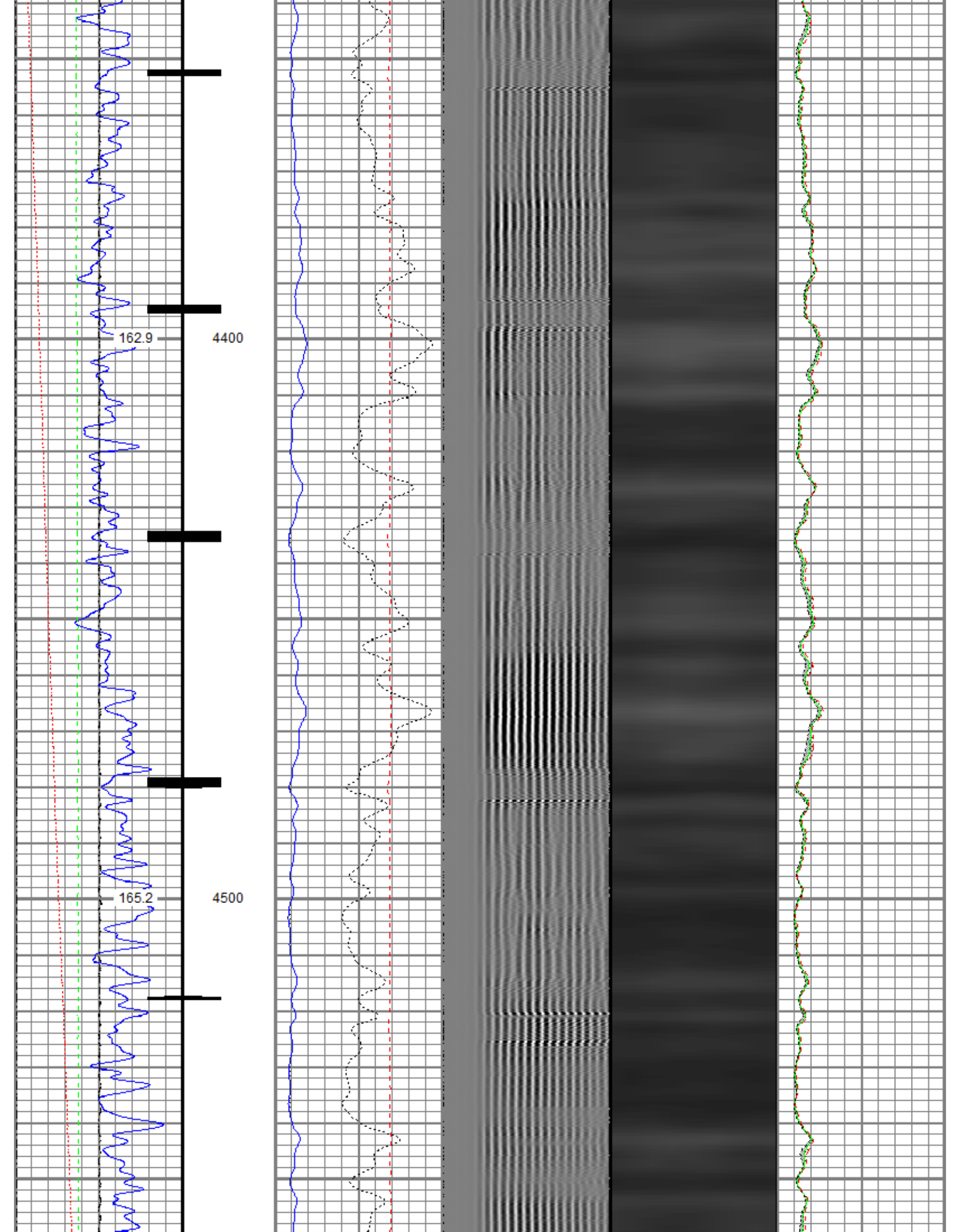


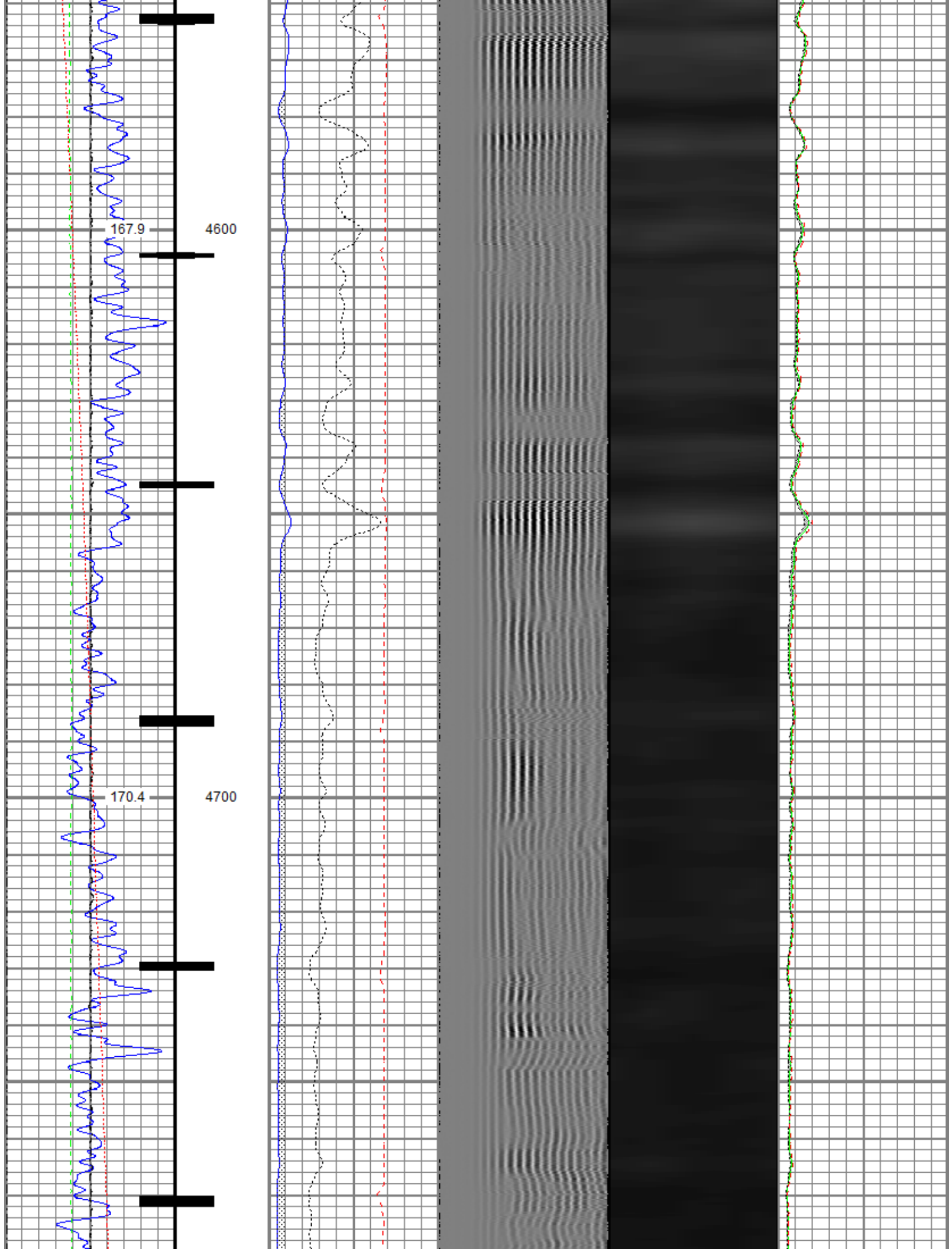


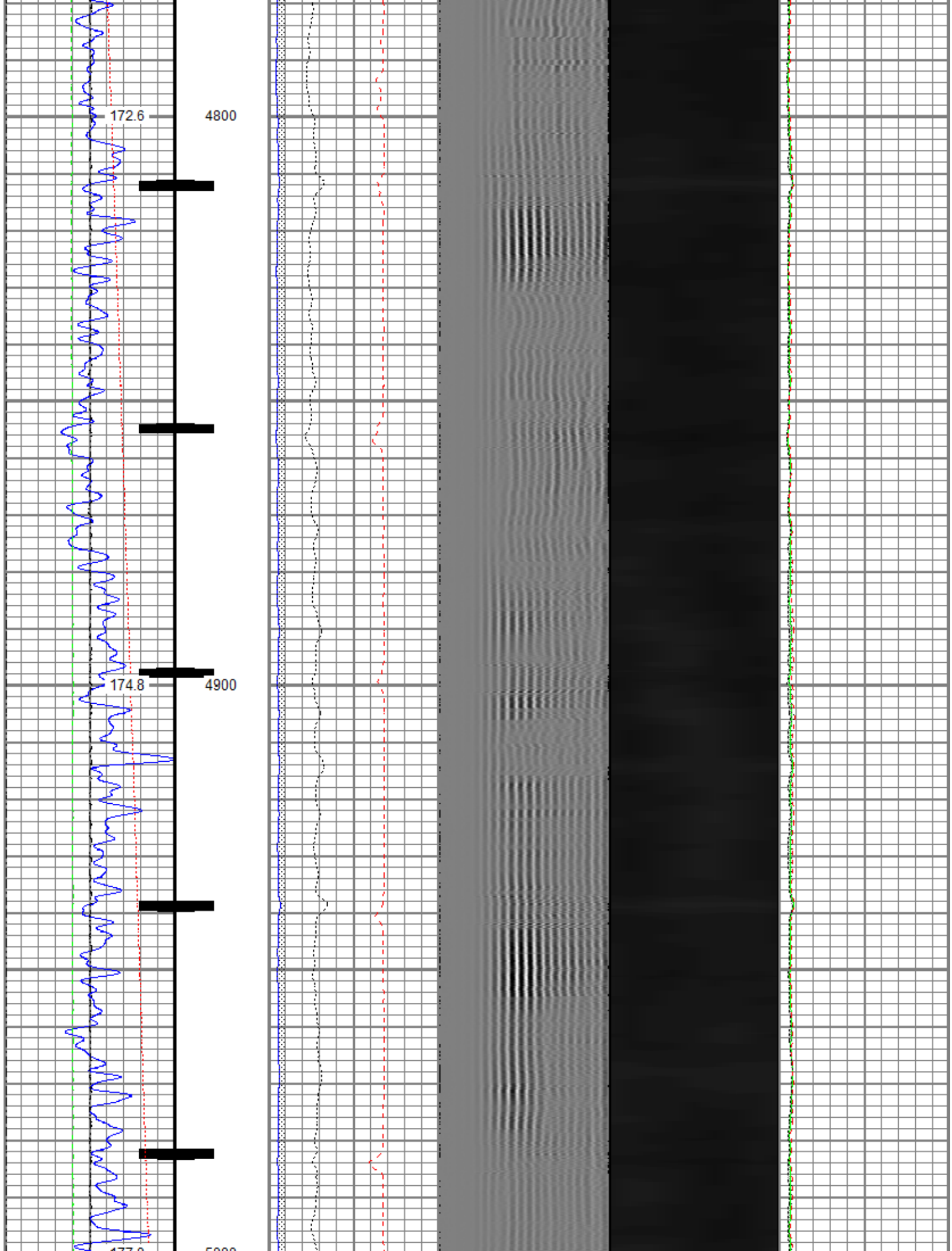




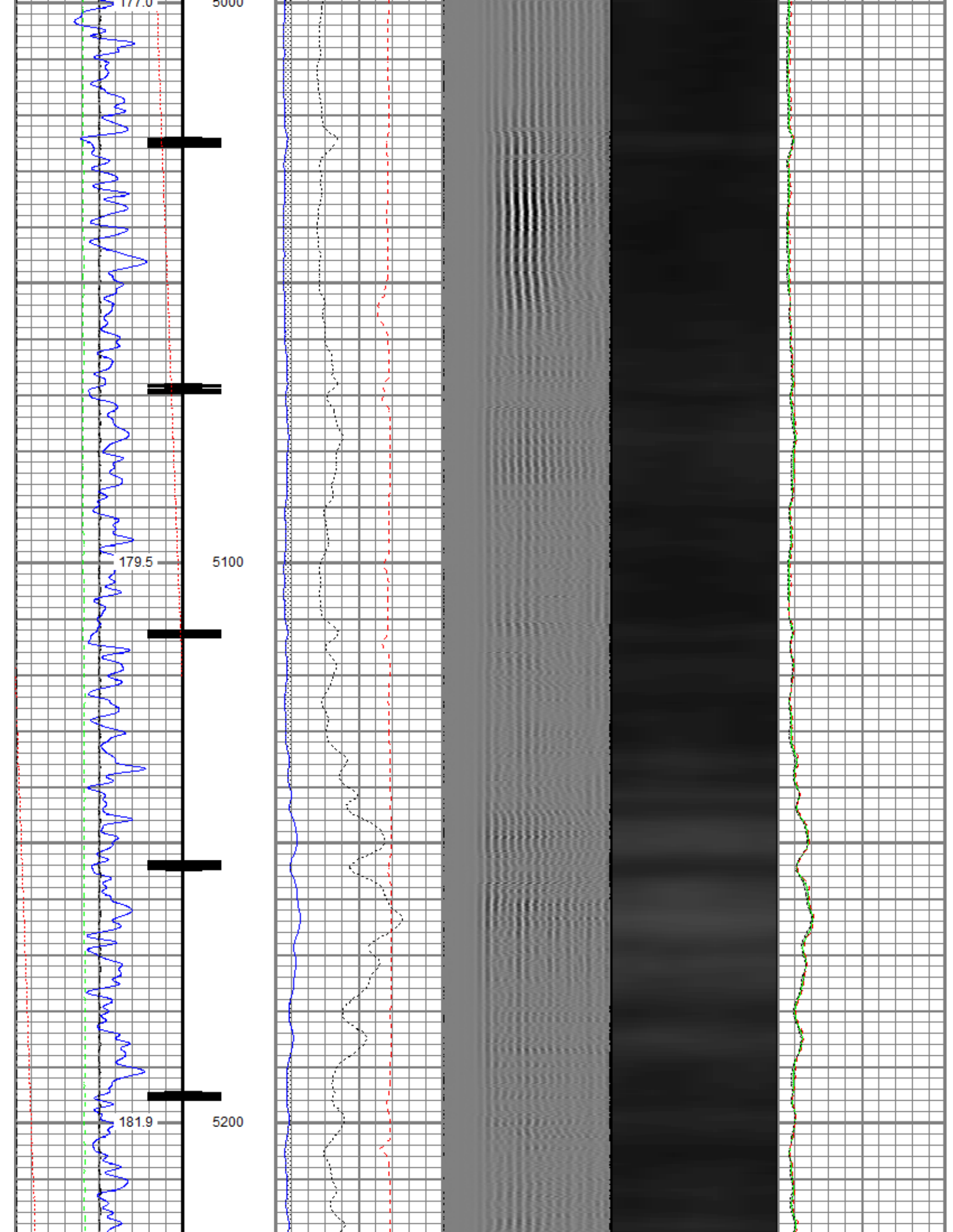


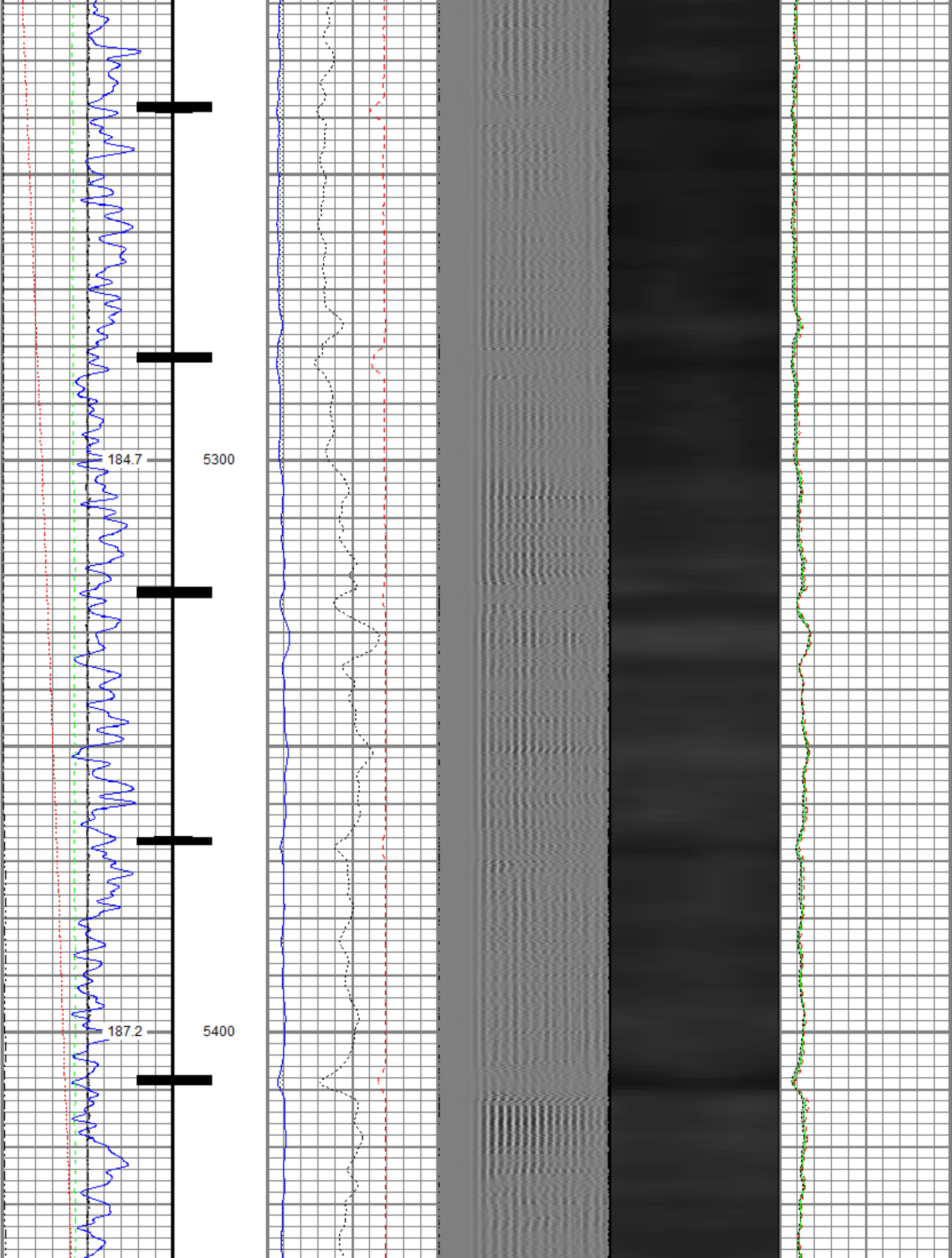


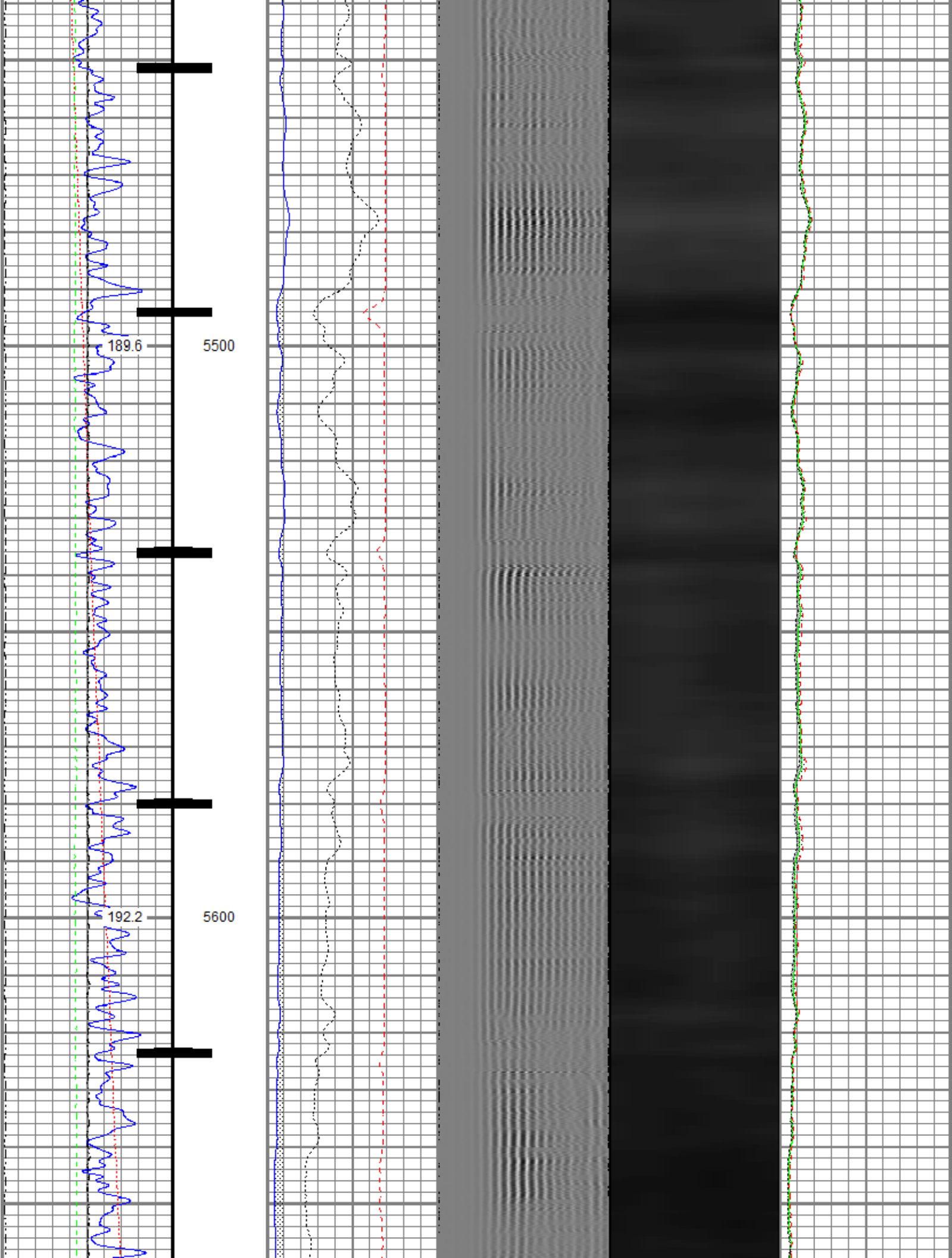


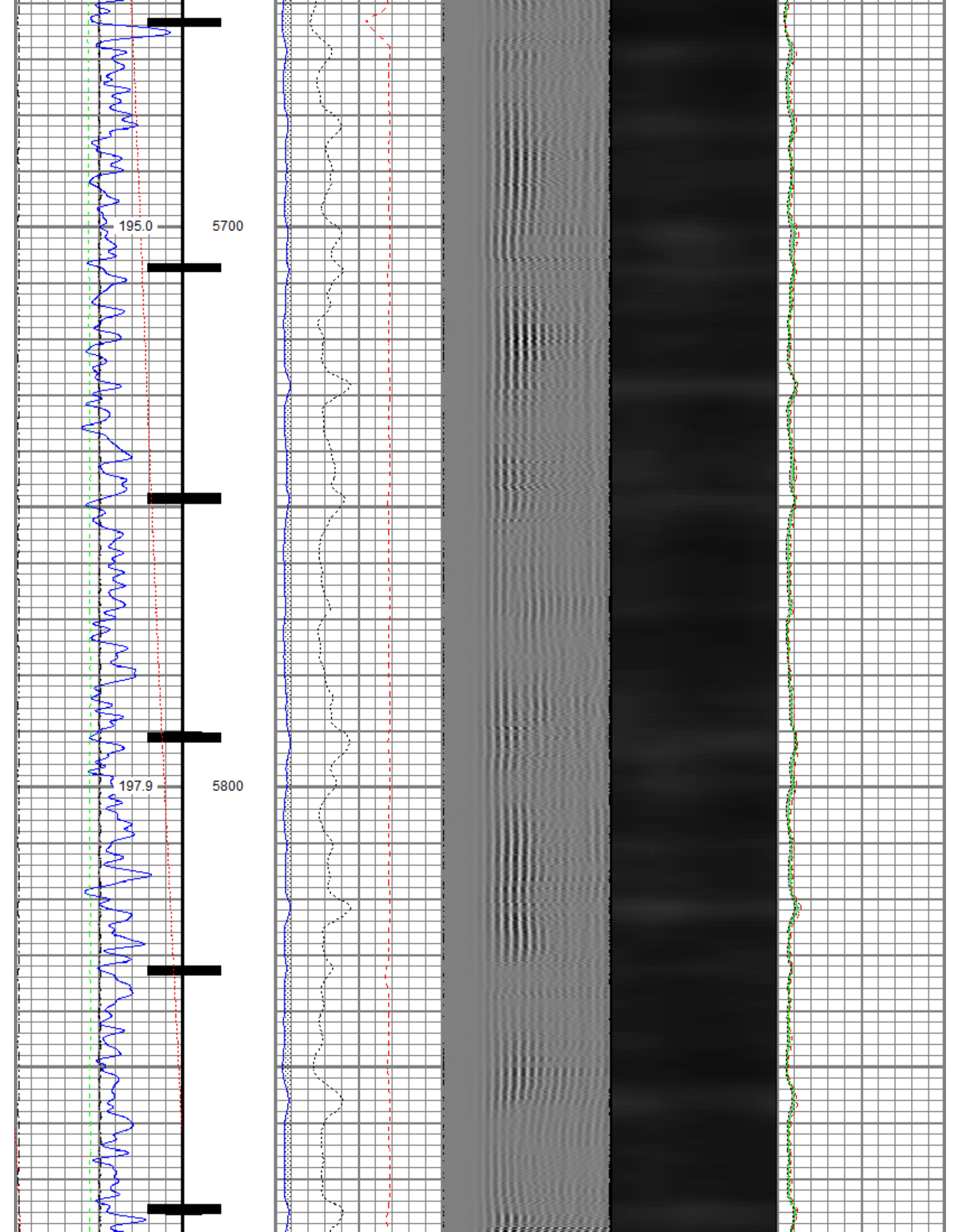




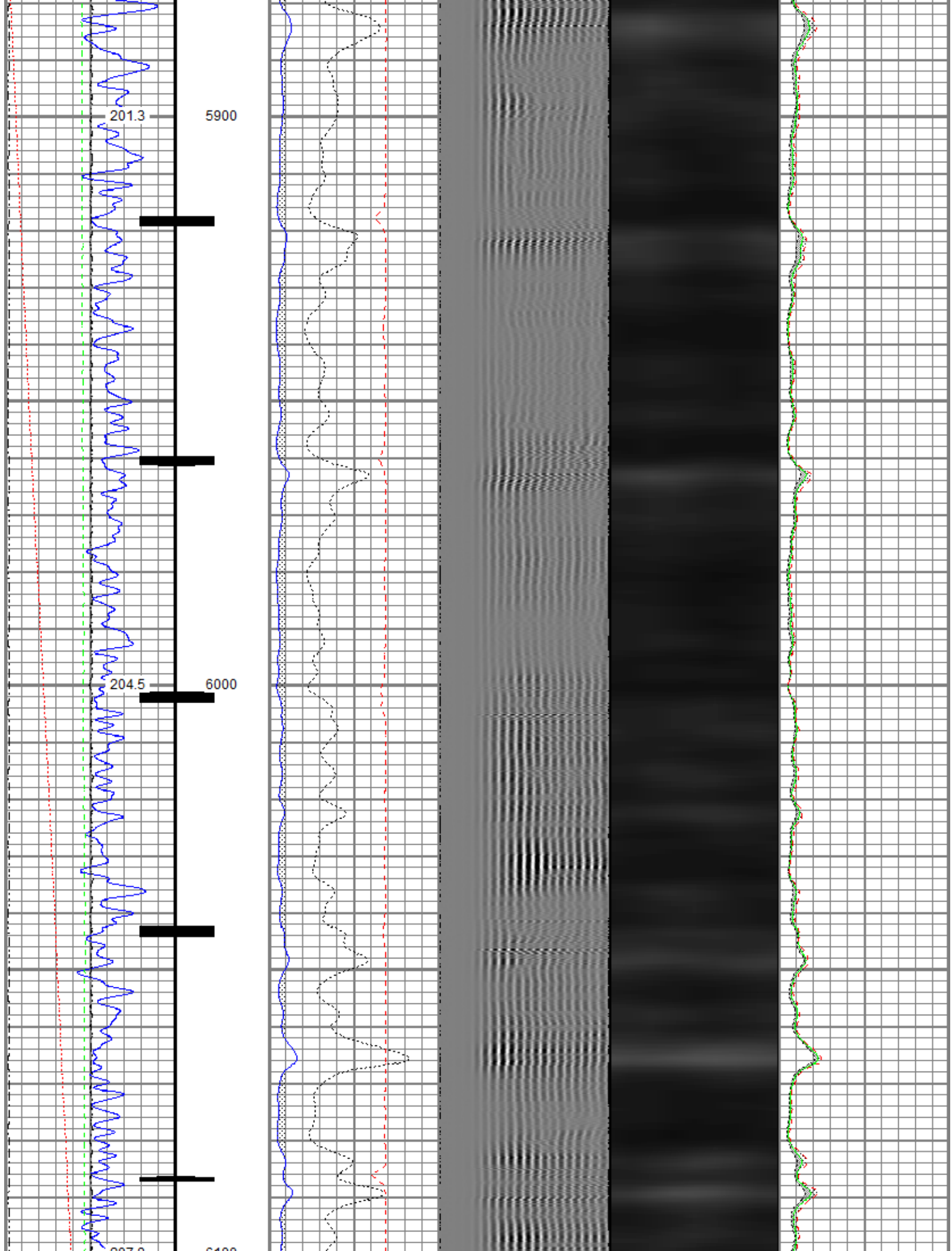


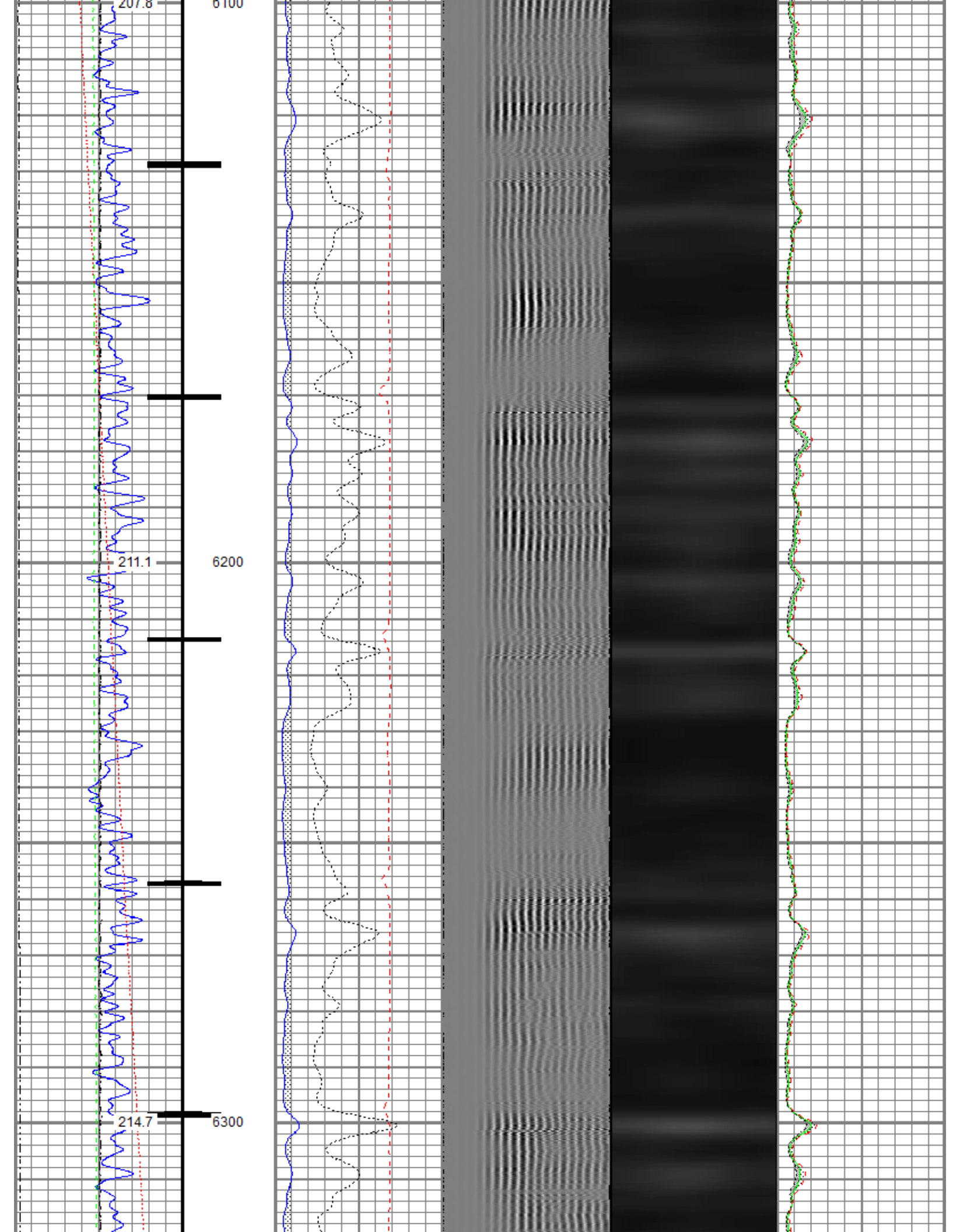


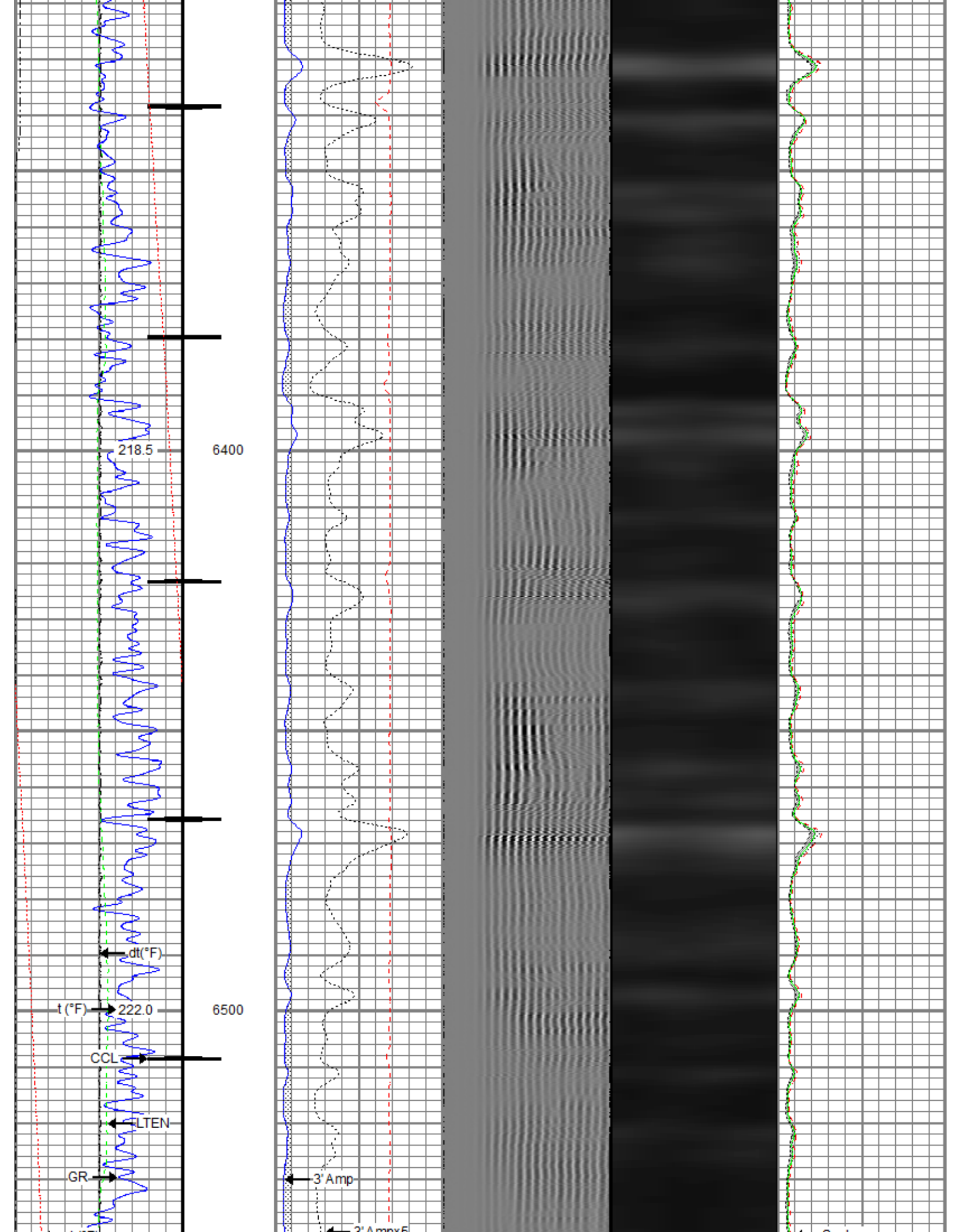


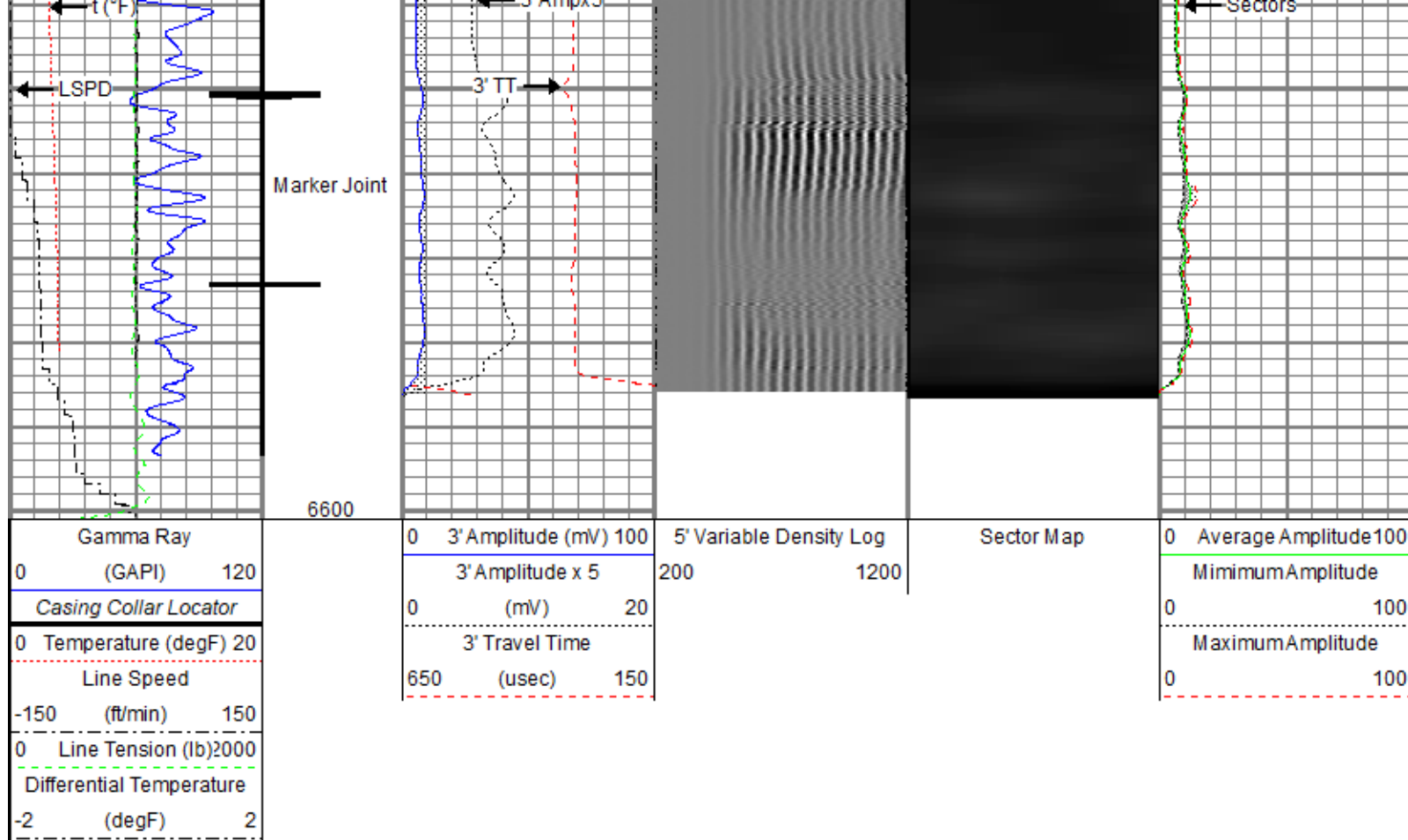








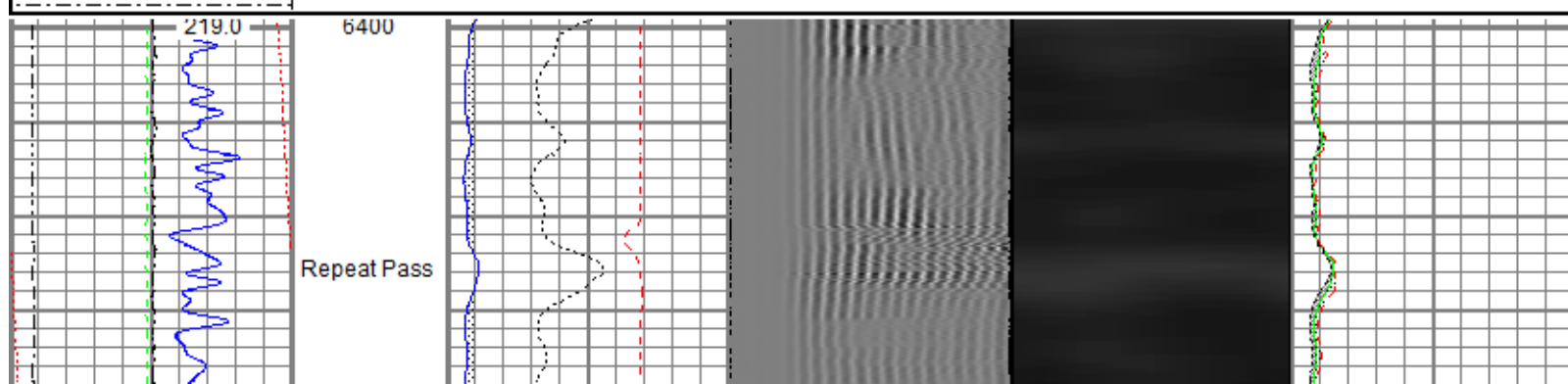
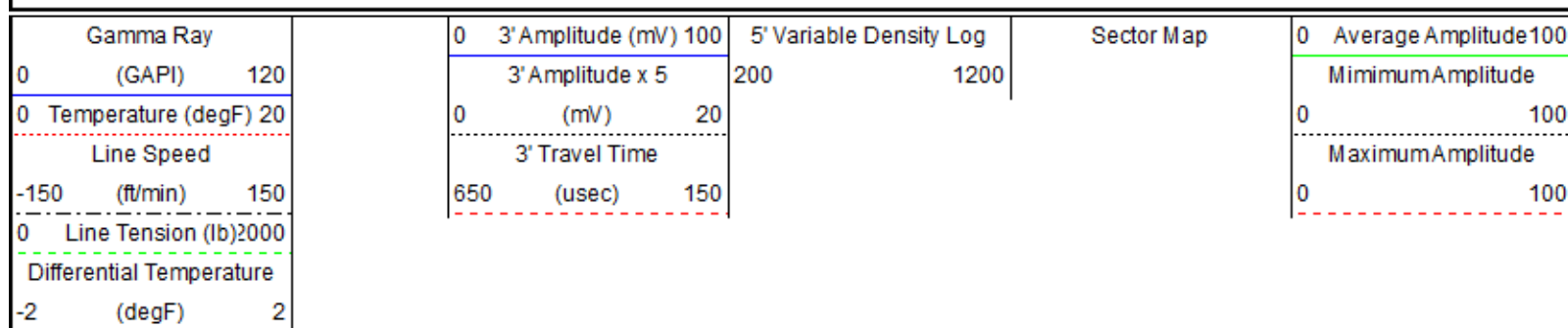




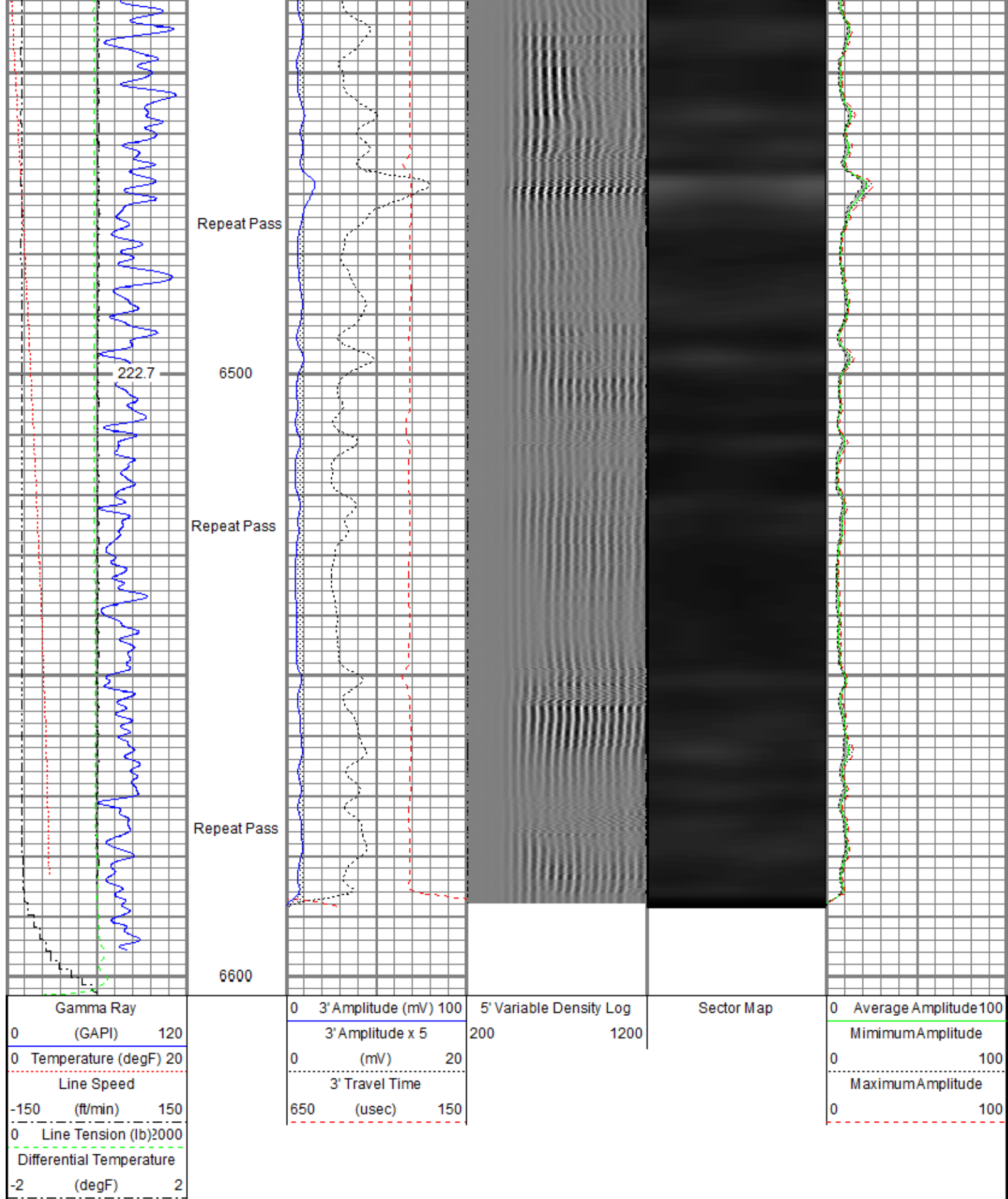
## Repeat Pass


Recorded With 2800 PSI Surface Induced Pressure

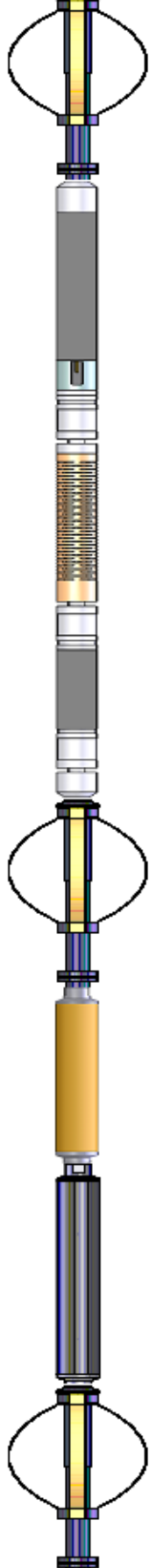
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 Dataset Pathname pass2.1  
 Presentation Format ros\_radial  
 Dataset Creation Mon Sep 17 13:06:35 2018  
 Charted by Depth in Feet scaled 1:240







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"	1.03	1.44	3.60

			Fishing Neck								
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00					
TEMP	18.23		Probe Radii-2750 RBT (FW1308-091) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00					
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00					
CCL\$2	7.38		Probe CCL-2750 SA (FW1307-076) Probe 2-3/4" Digital Six Magnet Logging CCL	2.66	2.75	35.00					
CCL\$1	7.38										
GR	5.24		Probe GR-2750 SA (FW1307-078) Probe 2-3/4" Digital Stand Alone Gamma Ray	3.33	2.75	55.00					
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00					
Dataset:		PROCESSED_0512346589_Anadarko_English Farms 8-8HZ_RBL_09-16-18_2800 PSI.db: field/well/run1/pass4									
Total length:		25.06 ft									
Total weight:		258.60 lb									
O.D.:		2.75 in									

#### Calibration Report

Database File c:\programdata\warrior\data\0512346589\_anadarko\_english farms 8-8hz\_rbl\_09-16-18\processed\_0512346589\_anadarko\_eng  
Dataset Pathname pass4 1

### Gamma Ray Calibration Report

Serial Number: FW1307-078  
 Tool Model: 2750 SA  
 Performed: Sun Nov 12 06:08:32 2017

Calibrator Value: 637.0 GAPI

Background Reading: 108.2 cps  
 Calibrator Reading: 1134.5 cps

Sensitivity: 0.6207 GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number: FW1308-091  
 Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in  
 Calibration Depth: -7.007 ft

Master Calibration, performed Sun Sep 16 06:49:37 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.381	0.800	71.921	188.582	-0.003
CAL	0.004	0.387				
5'	0.004	0.363	0.800	71.921	198.104	-0.037
SUM						
S1	0.004	0.386	0.000	100.000	262.001	-1.052
S2	0.004	0.386	0.000	100.000	261.675	-1.102
S3	0.004	0.381	0.000	100.000	265.552	-1.102
S4	0.004	0.377	0.000	100.000	268.045	-1.142
S5	0.004	0.380	0.000	100.000	266.078	-1.140
S6	0.004	0.381	0.000	100.000	265.388	-1.072
S7	0.004	0.382	0.000	100.000	264.976	-1.106
S8	0.004	0.380	0.000	100.000	266.060	-1.117

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.387	1.000	0.000

Air Zero Calibration, performed Sun Sep 16 06:50:04 2018:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.004		0.000		-0.000	
5'	0.004		0.000		0.000	
SUM						
S1	0.004		0.000		-0.000	
S2	0.004		0.000		-0.000	
S3	0.004		0.000		0.000	
S4	0.004		0.000		0.000	
S5	0.004		0.000		0.000	
S6	0.004		0.000		-0.000	
S7	0.004		0.000		-0.000	
S8	0.004		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	English Farms 8-8HZ
Field	Wattenberg
County	Weld
State	Colorado