


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.

Log ran as per customer request  
Depth referenced to Kelly Bushing at 17 FT  
Casing Tally reported Marker Joint 6250 FT  
Unable to Correlate to Marker Joint Due to RBP Set Depth  
Gauge Ring/Junk Basket ran to 7255 FT with no debris  
Log ran from as deep as possible in heel to surface  
Log ran with 2800 PSI Surface Induced Pressure  
Logging tools were clean and free of debris upon completion of operations

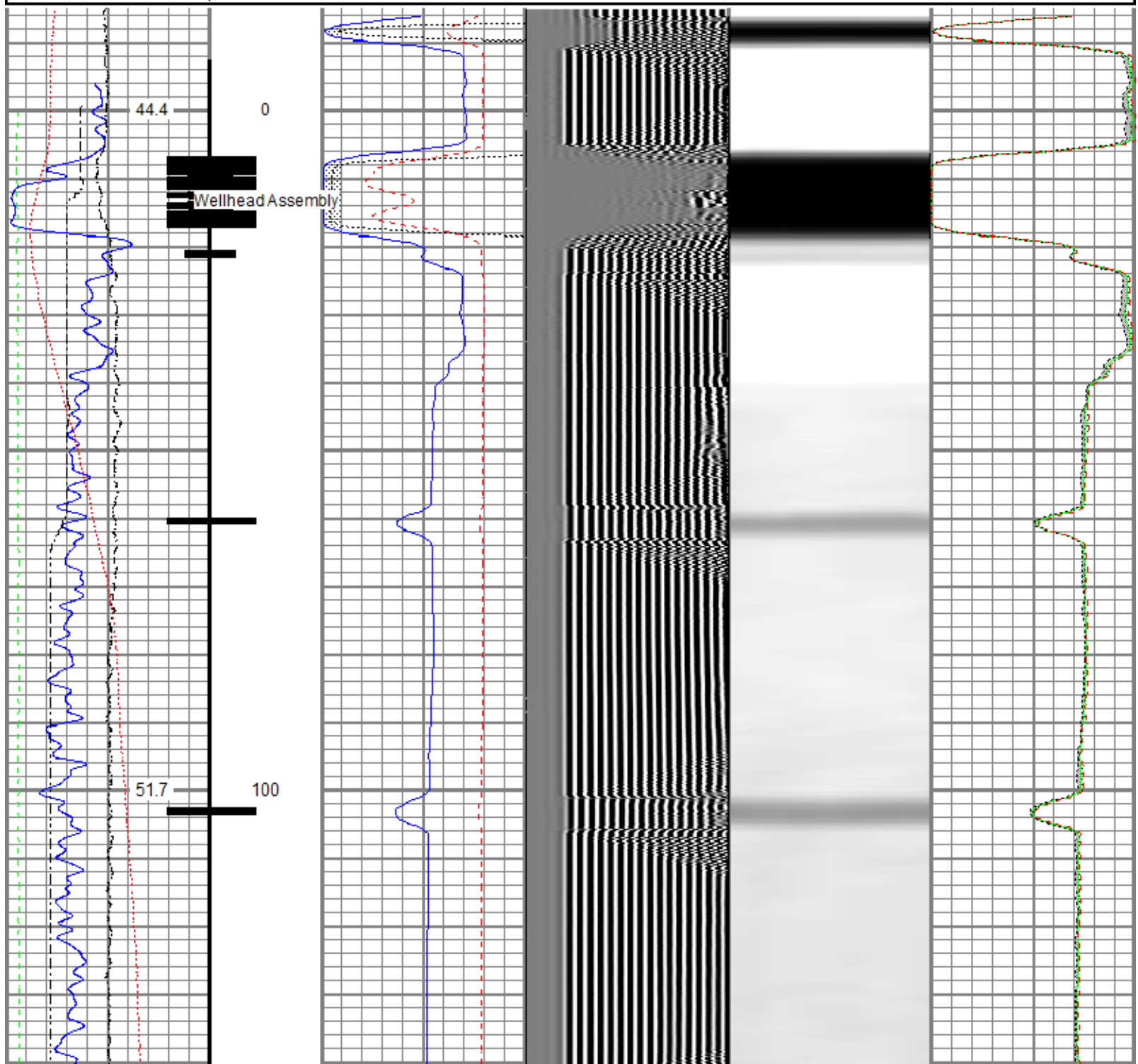
Thank you for choosing Reliance Oilfield Services, LLC!!

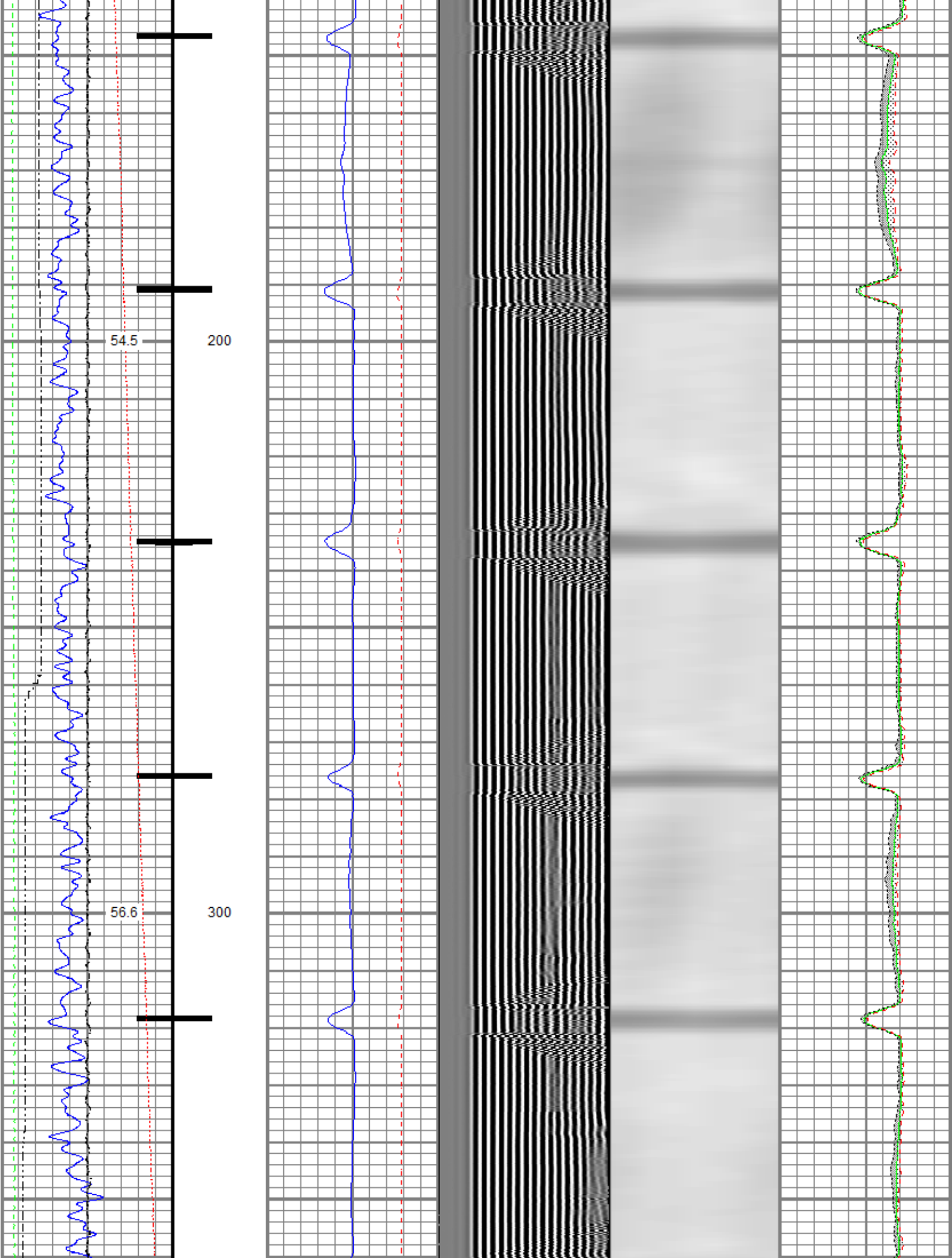
## Main Pass

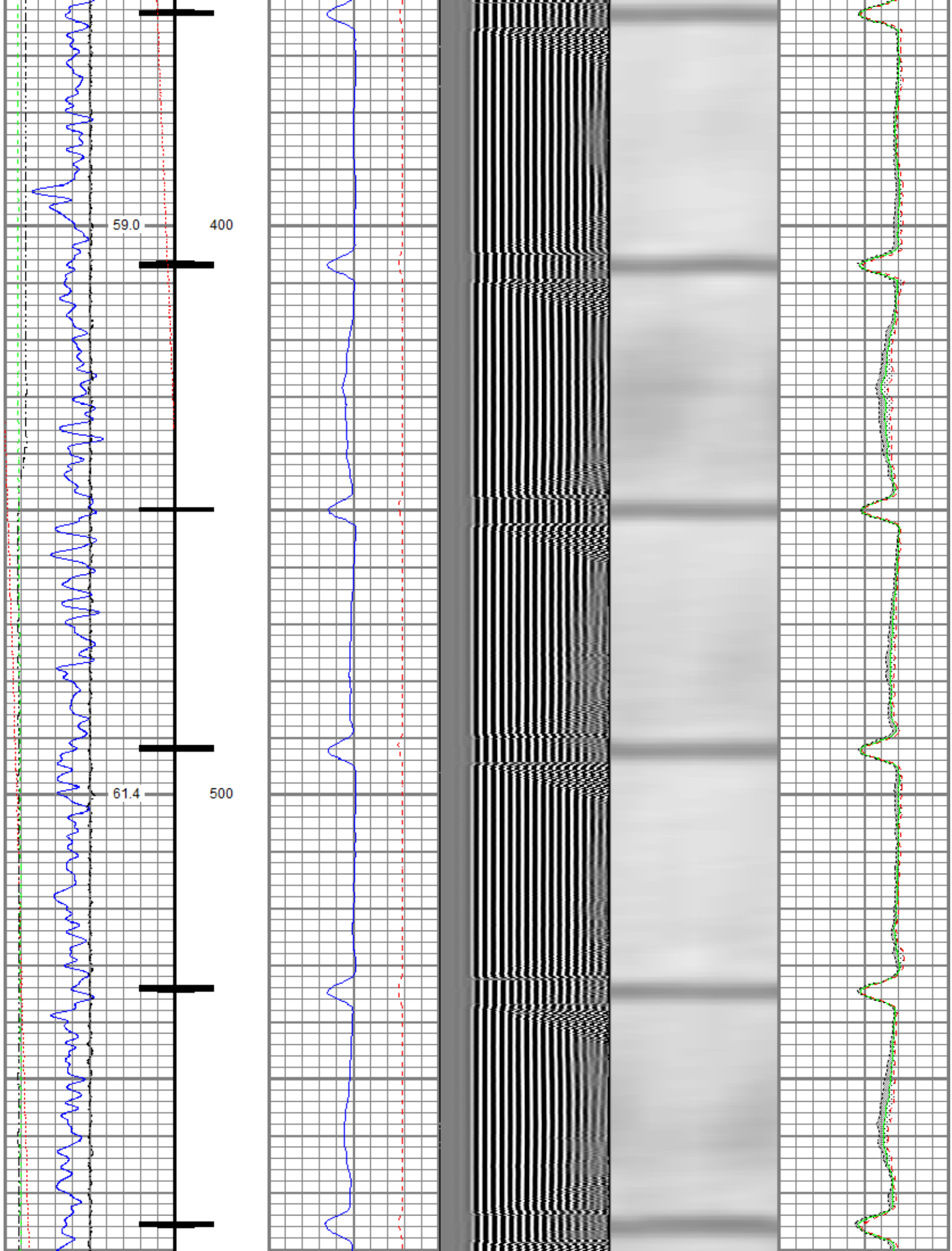


Database File new folder\revised\_0512345861\_anadarko\_hergenreder 32n-4hz\_rbl\_04-07-18.db  
 Dataset Pathname pass10.2  
 Presentation Format ros\_radrii  
 Dataset Creation Tue Apr 10 07:00:29 2018  
 Charted by Depth in Feet scaled 1:240

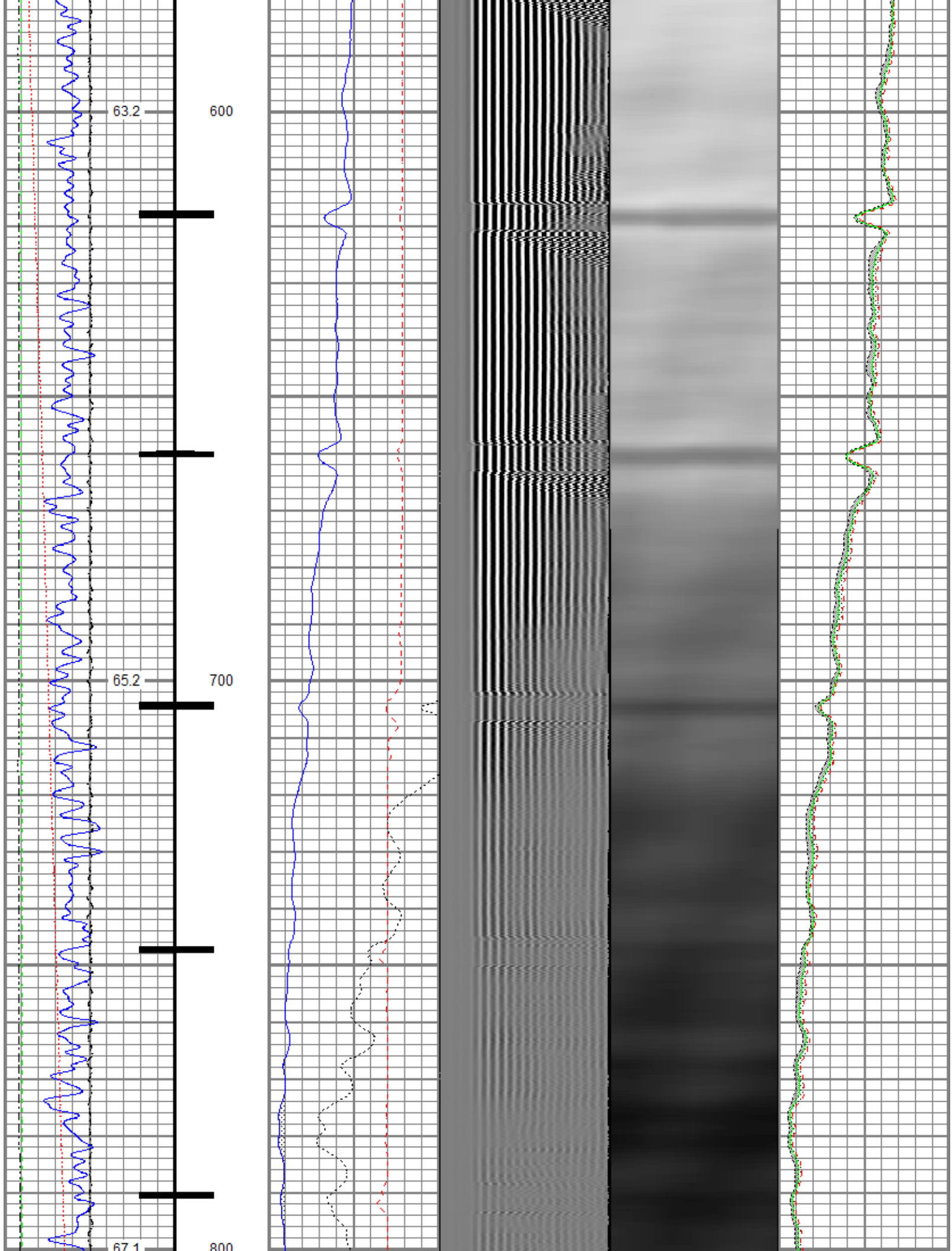
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150						
Line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

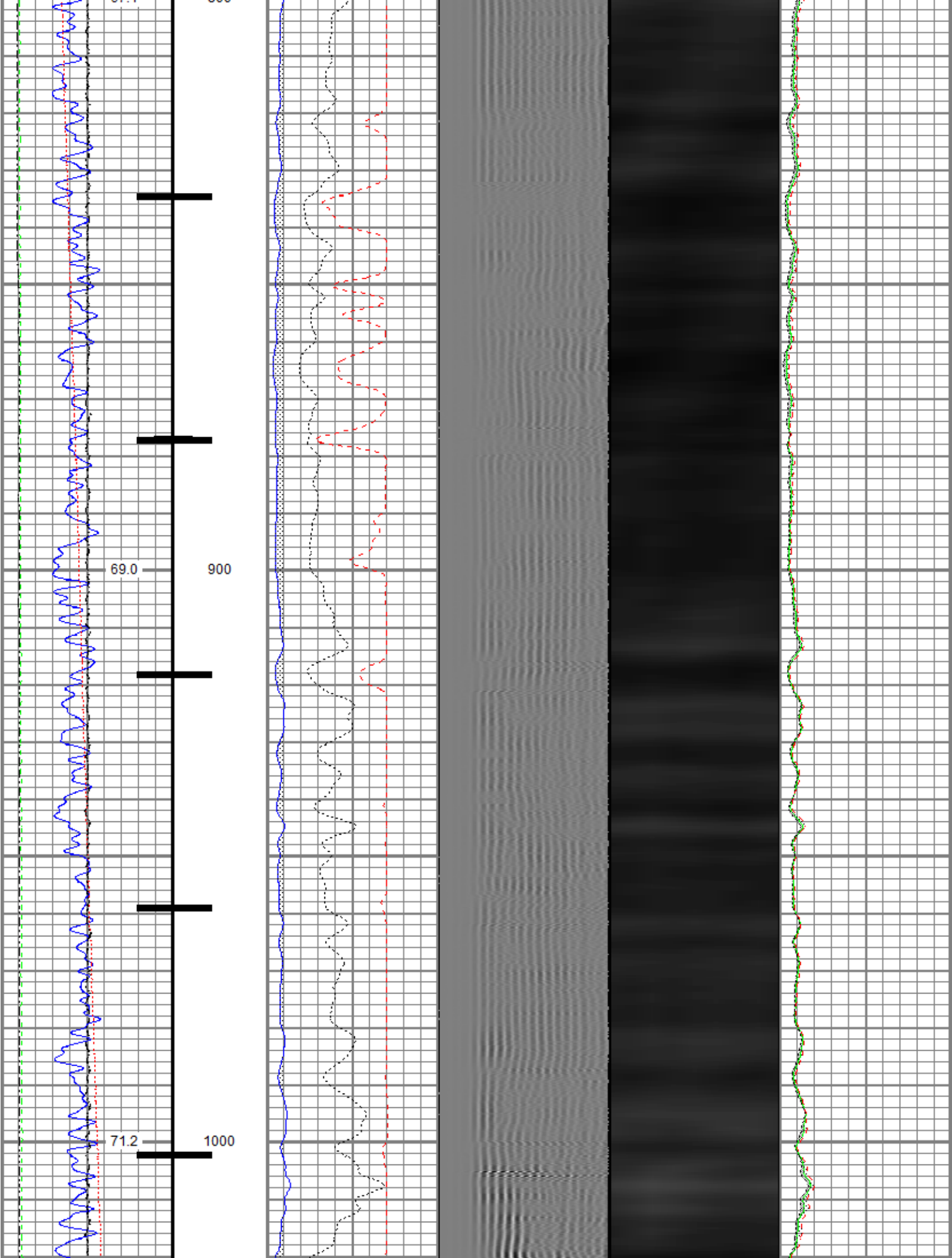


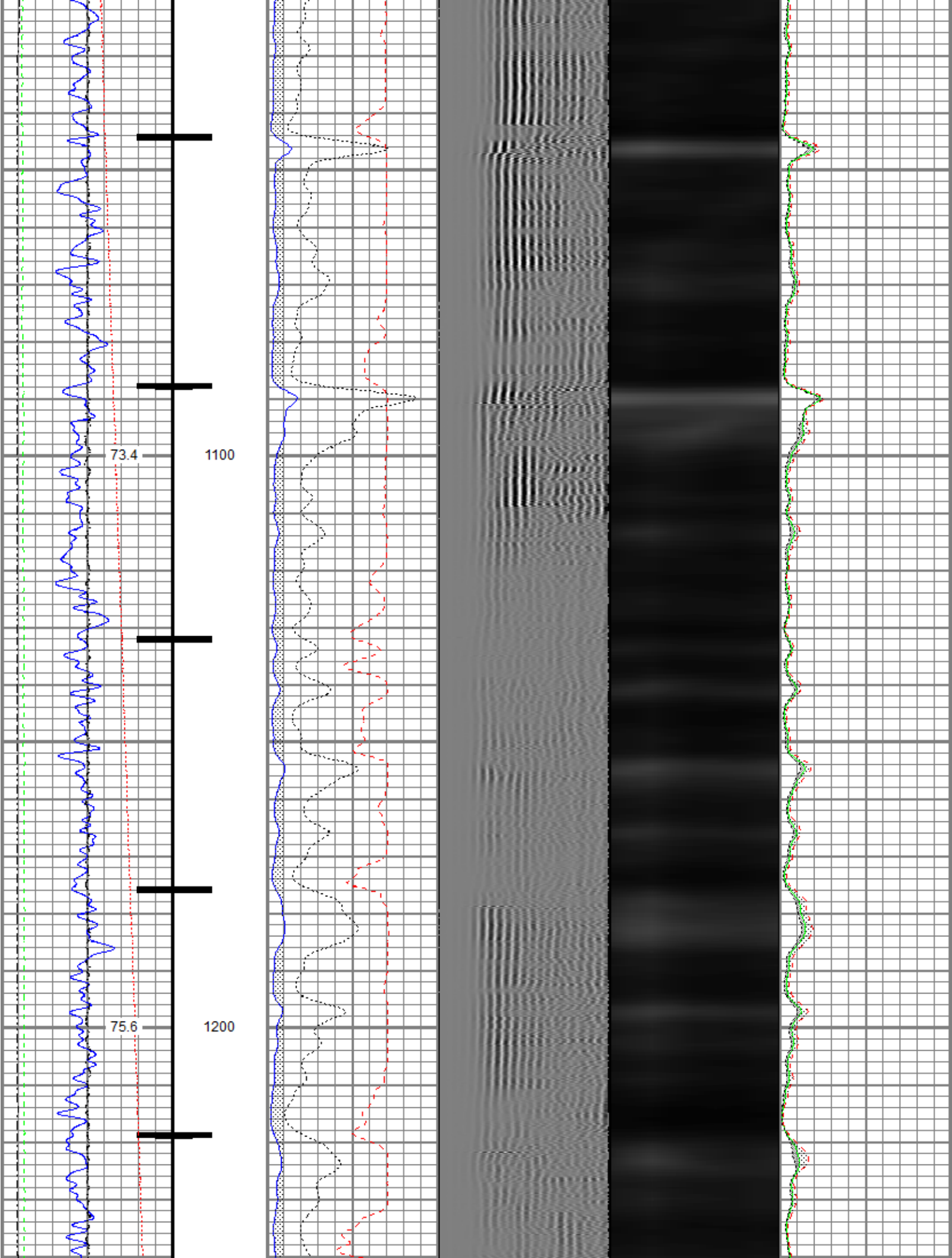


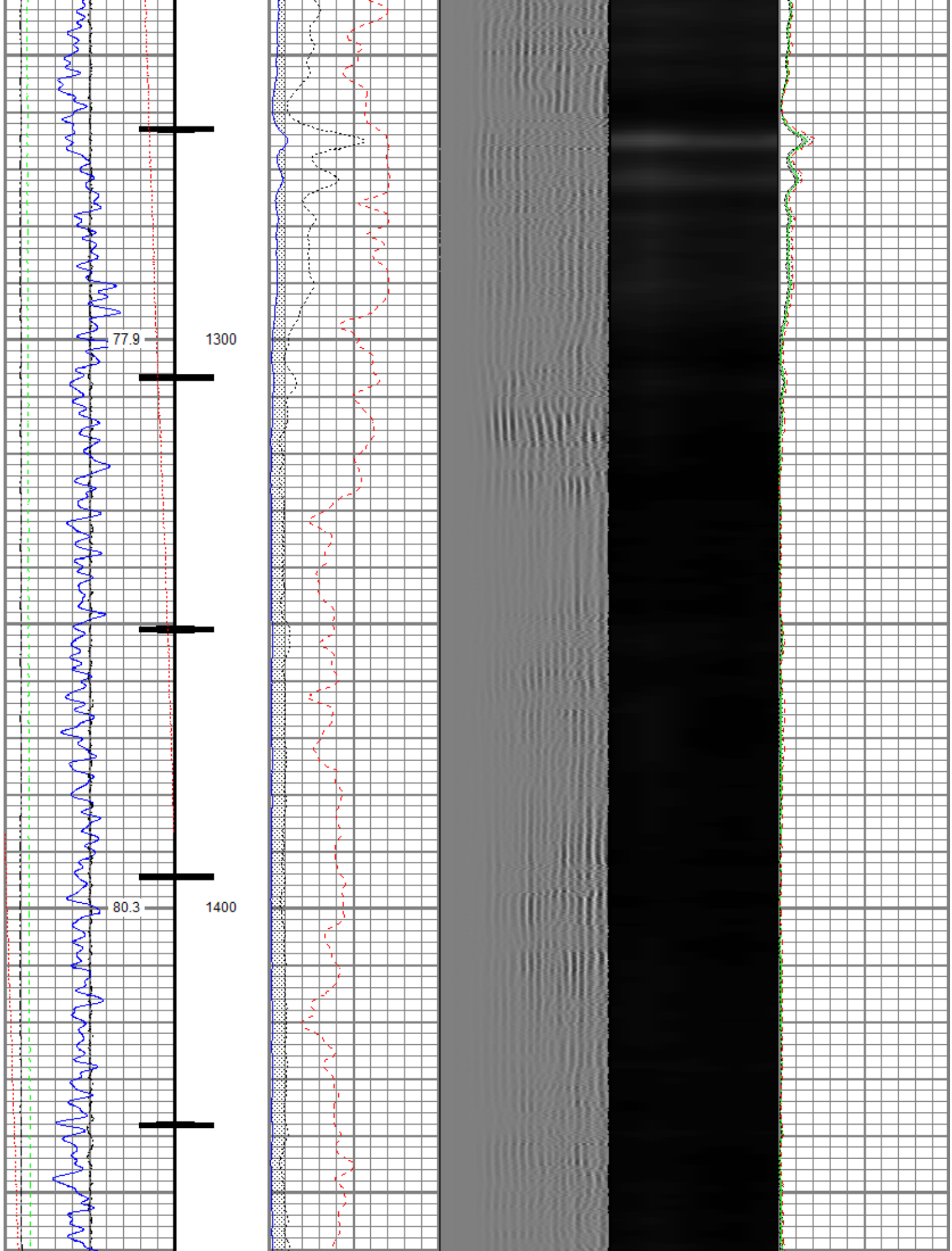




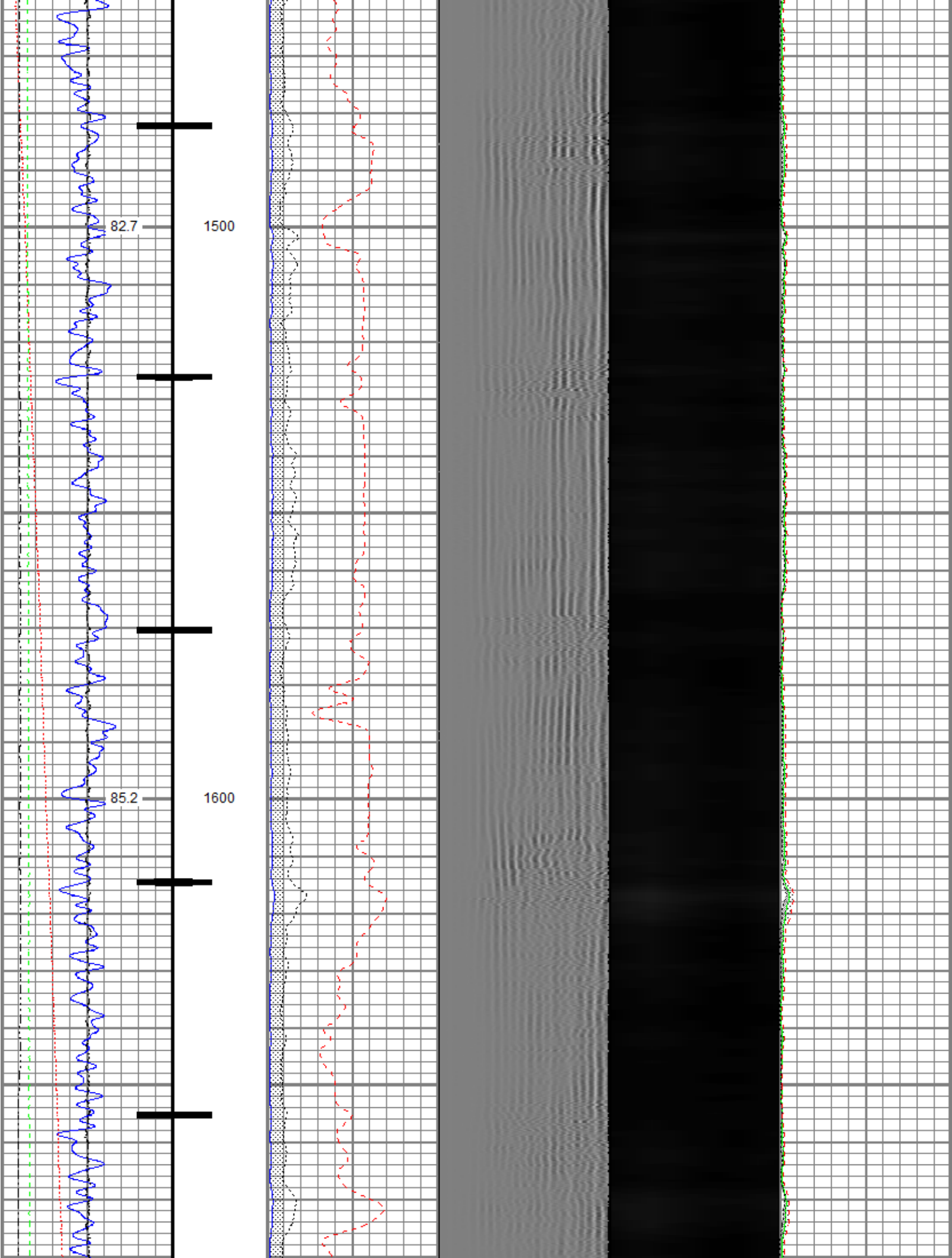


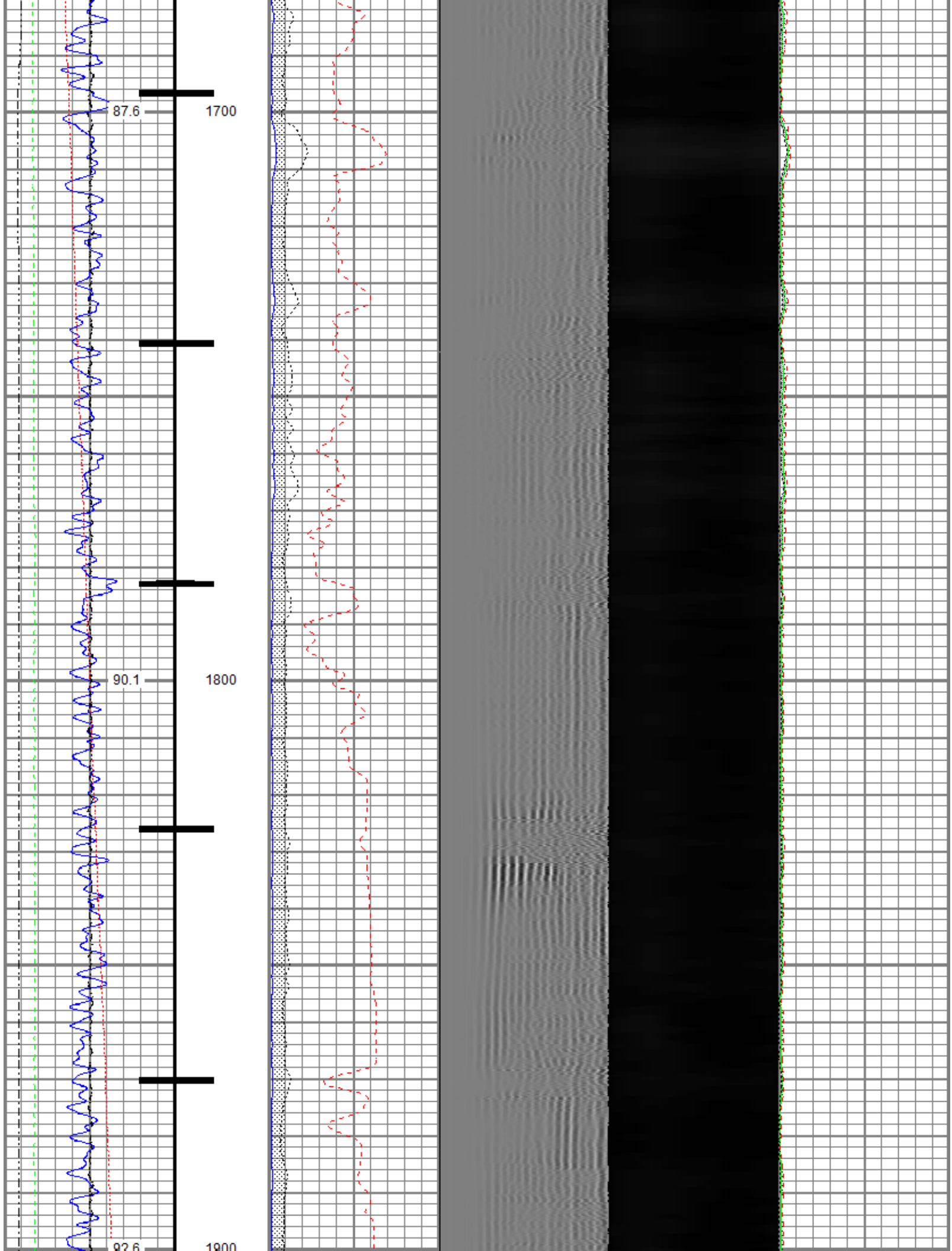


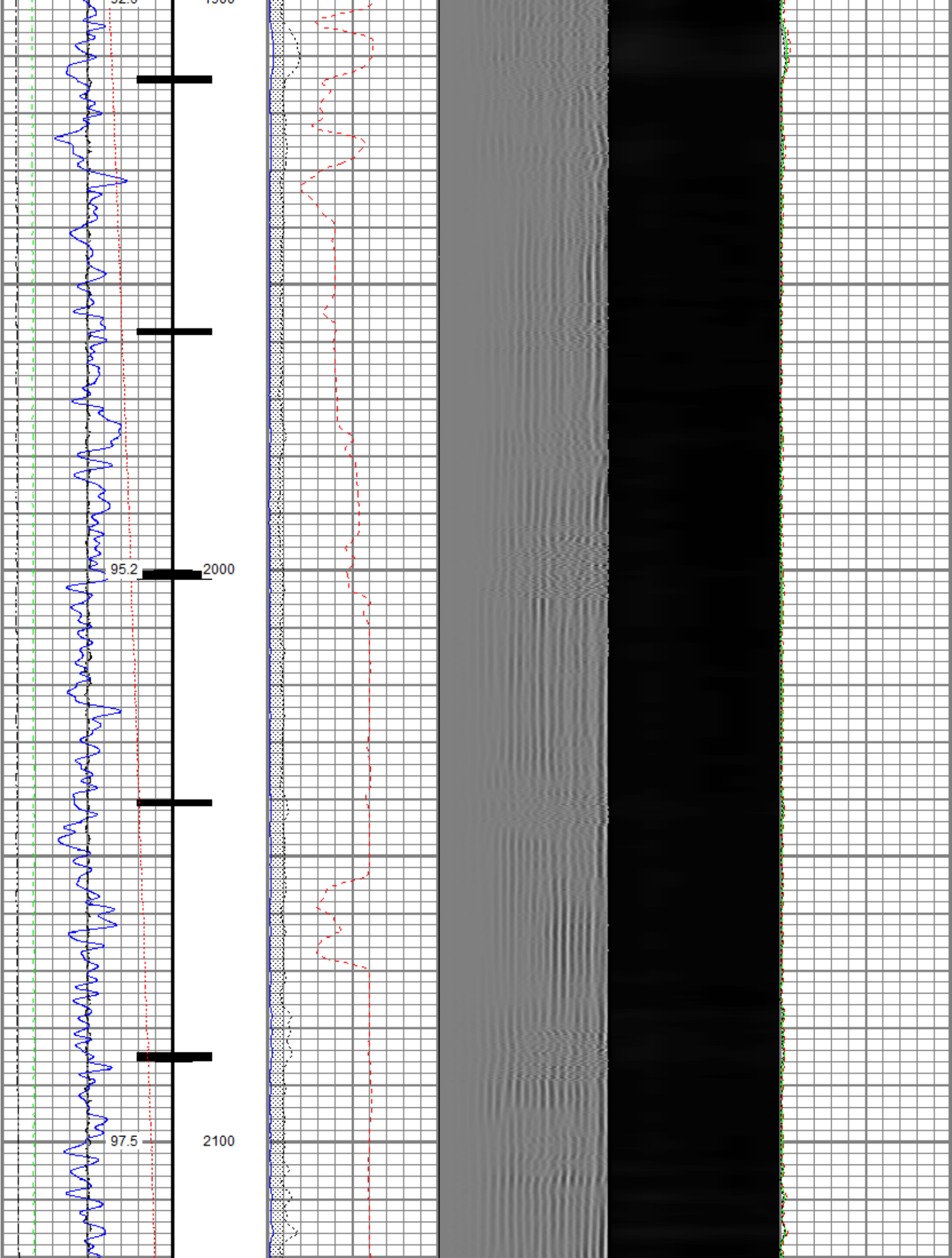


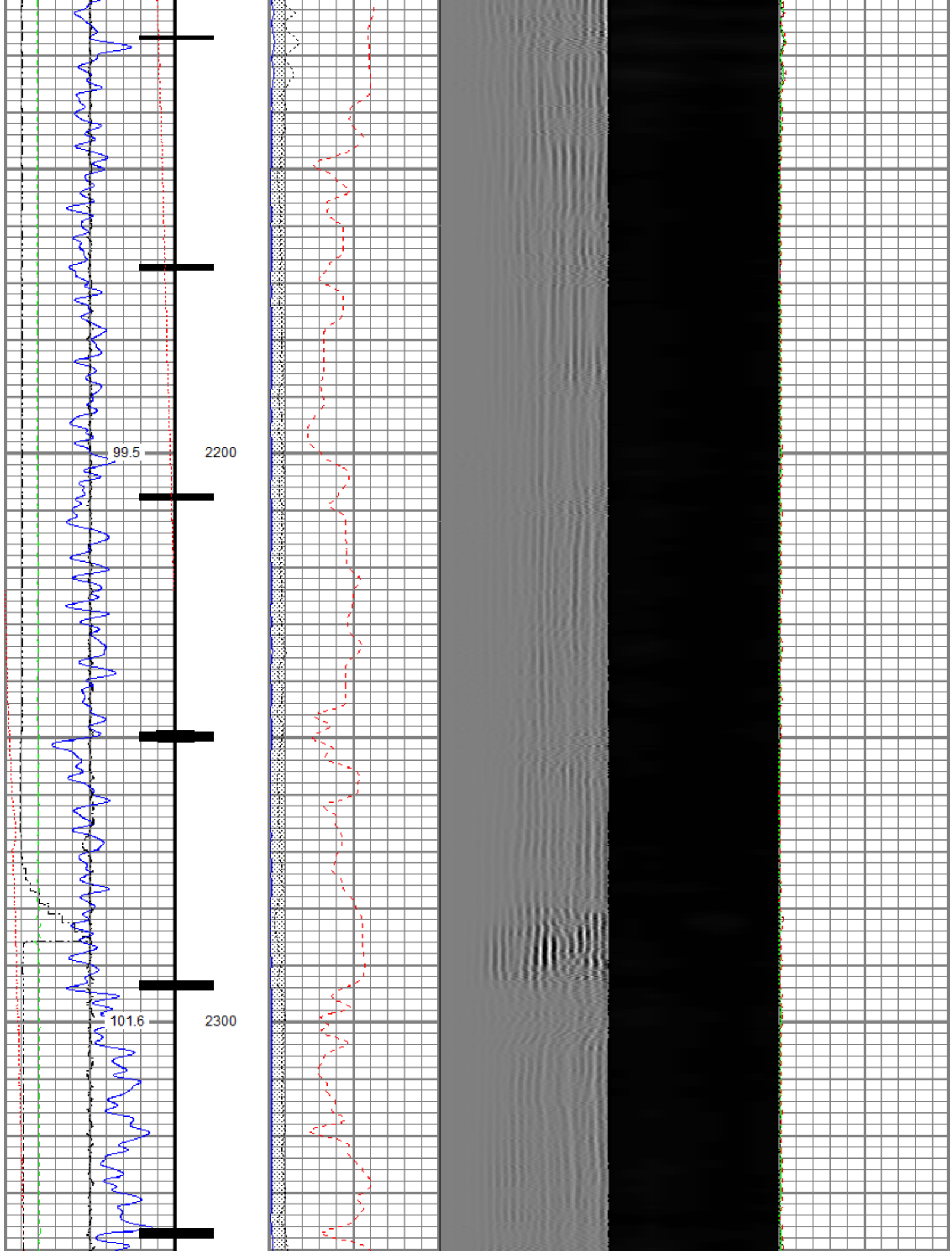




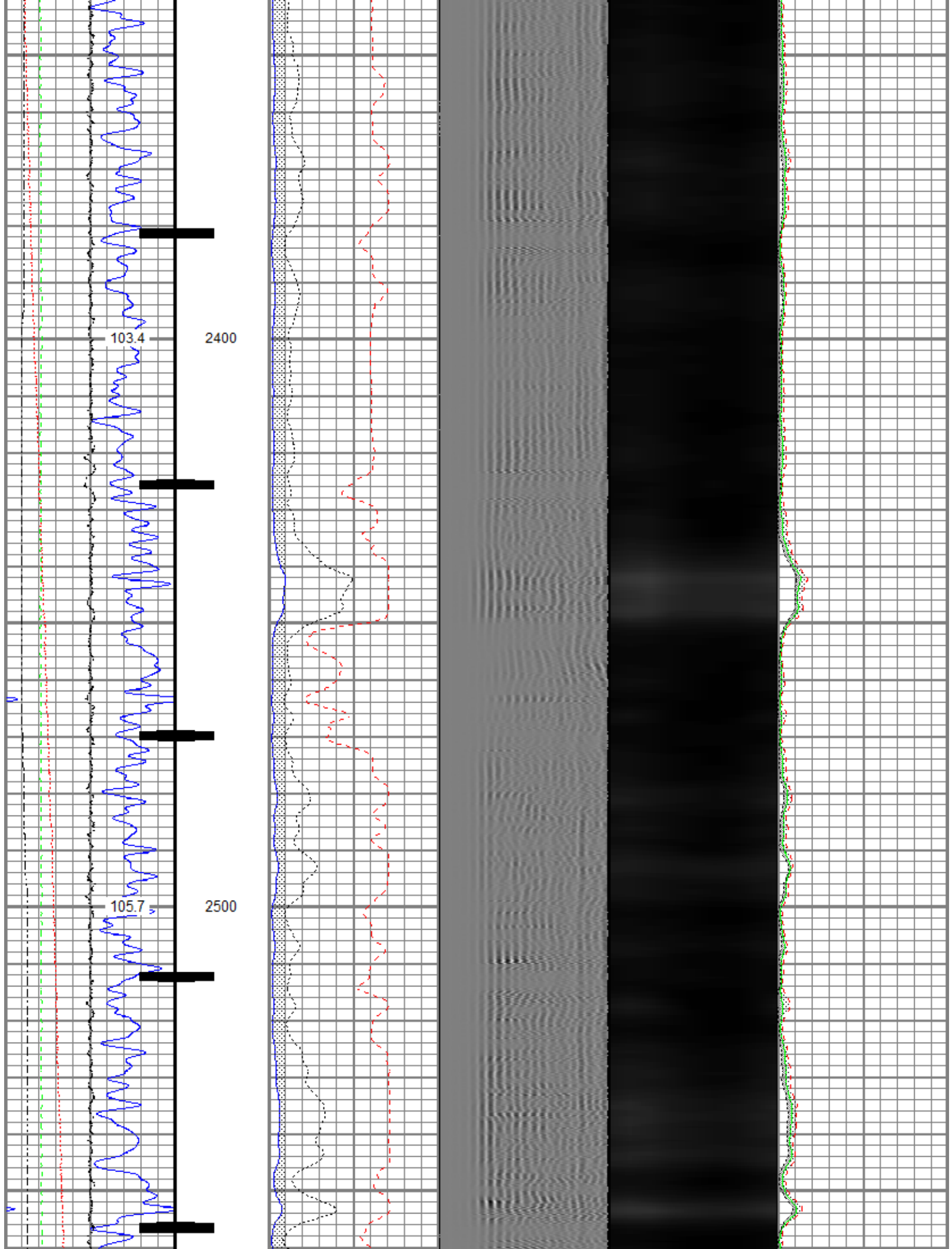


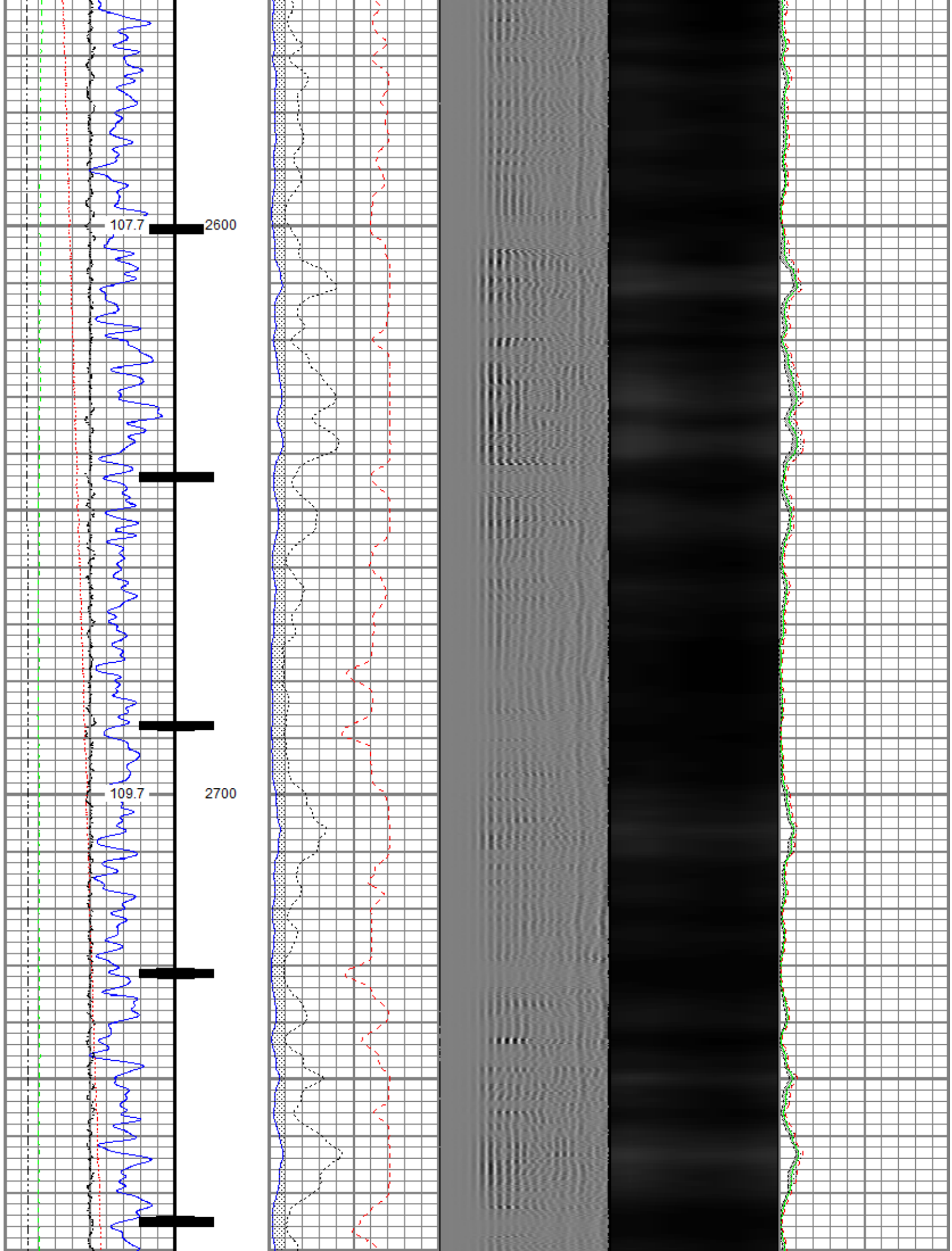


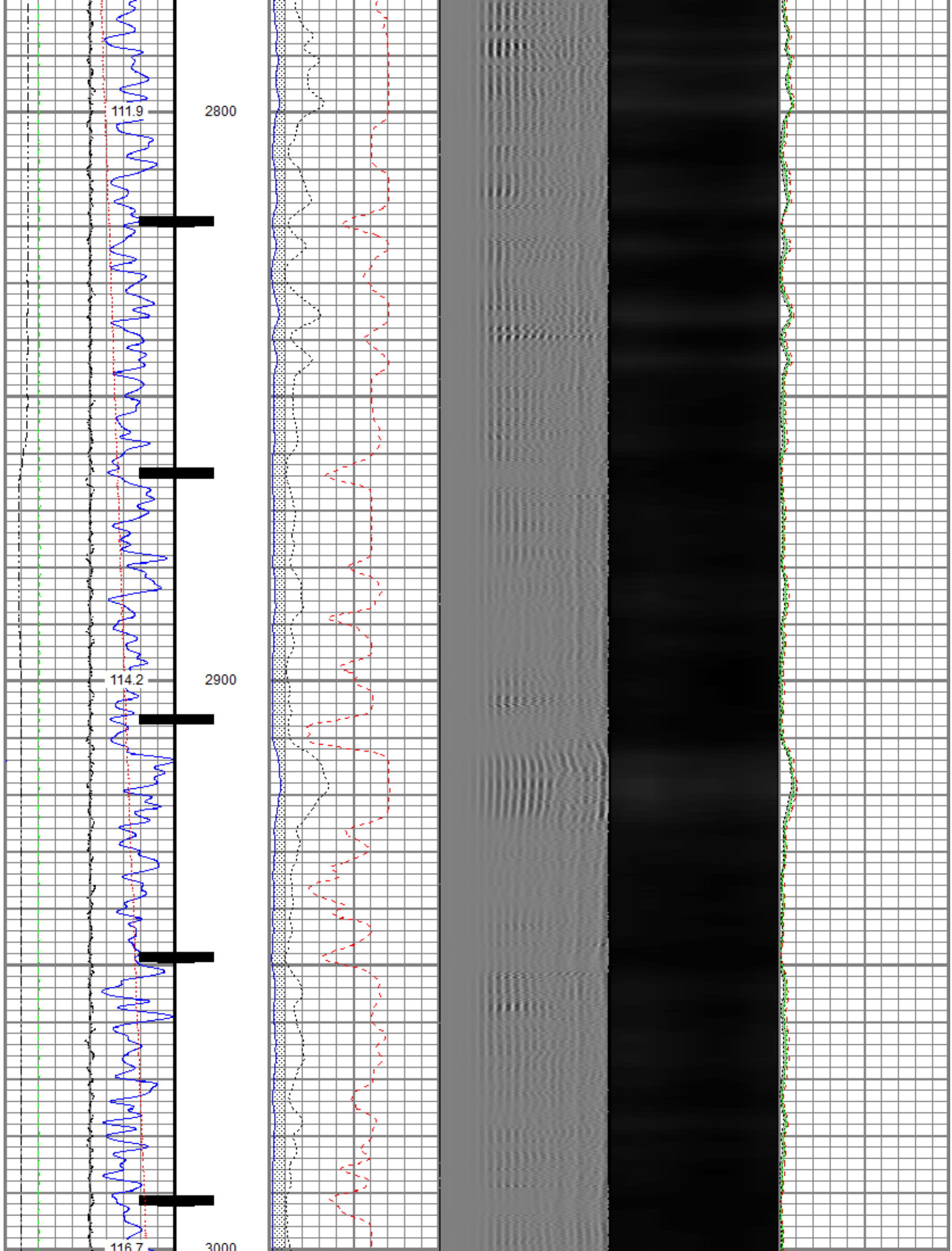


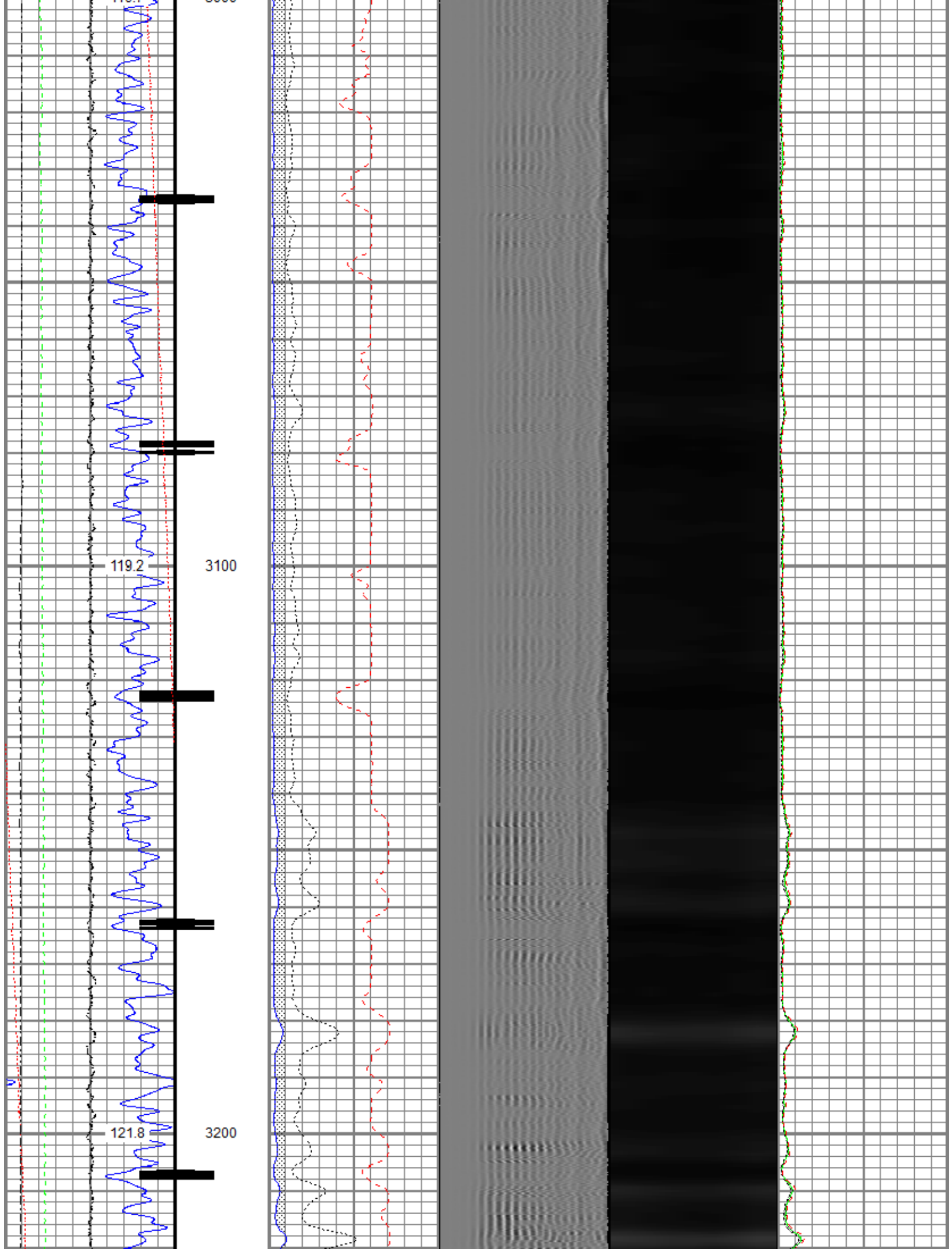




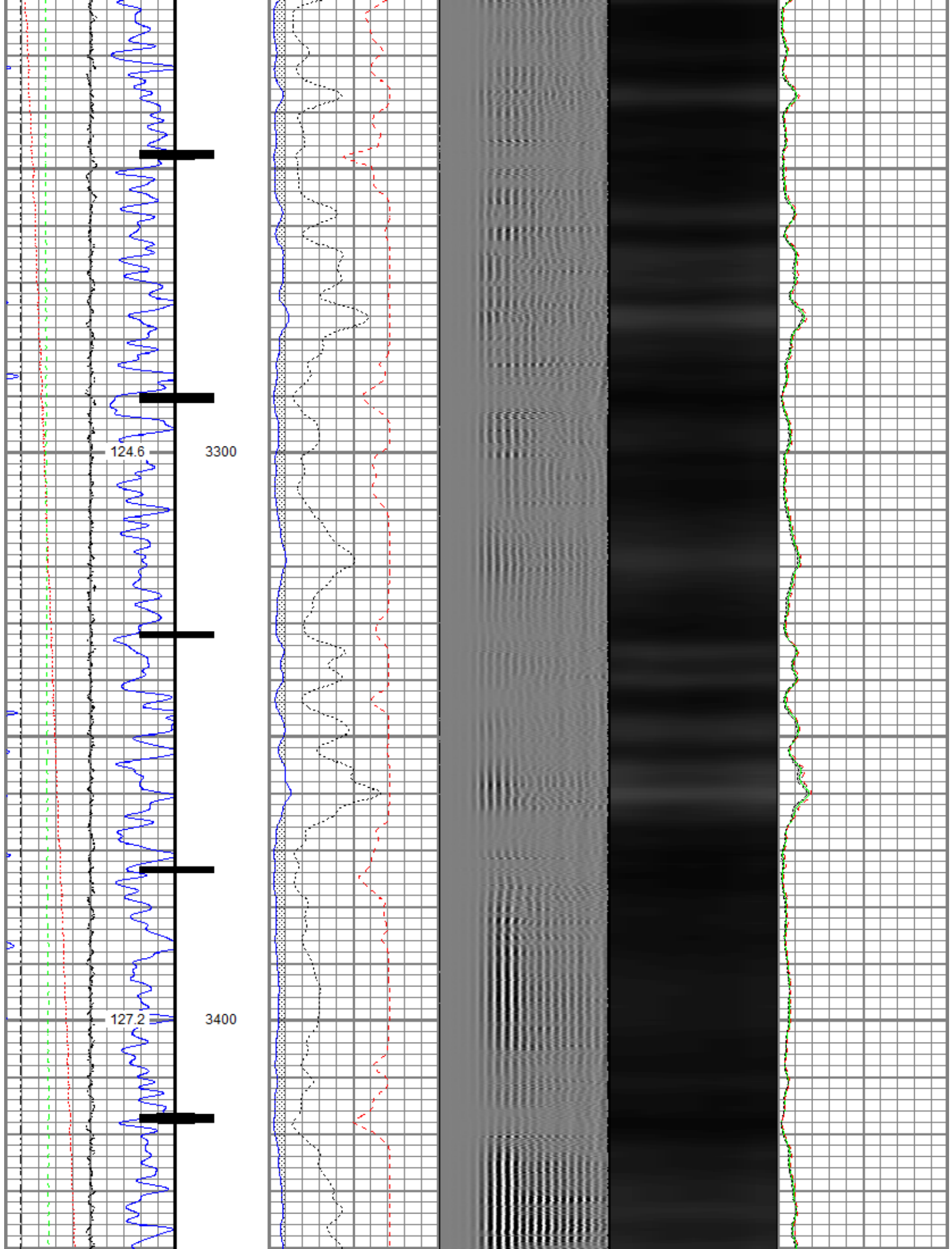


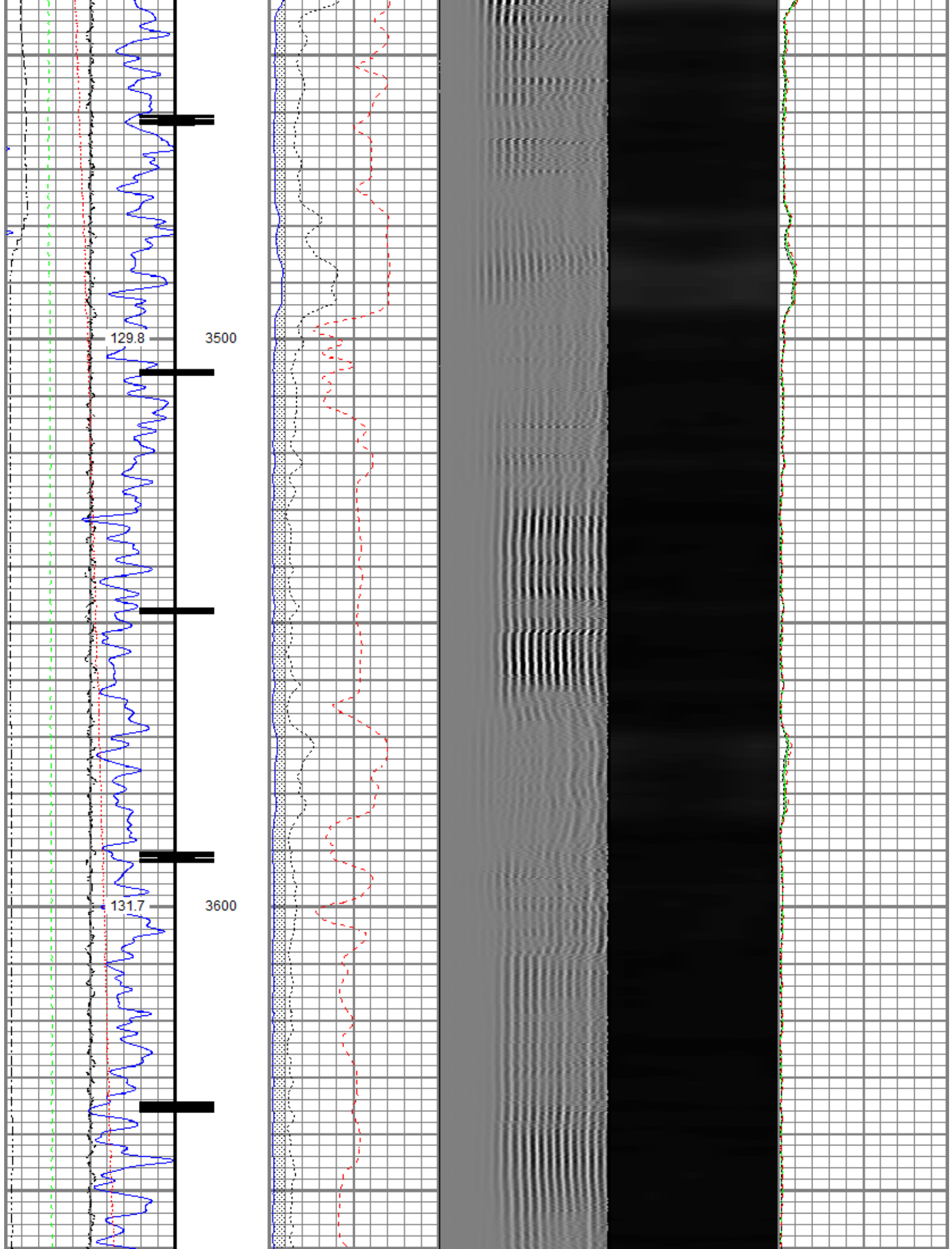


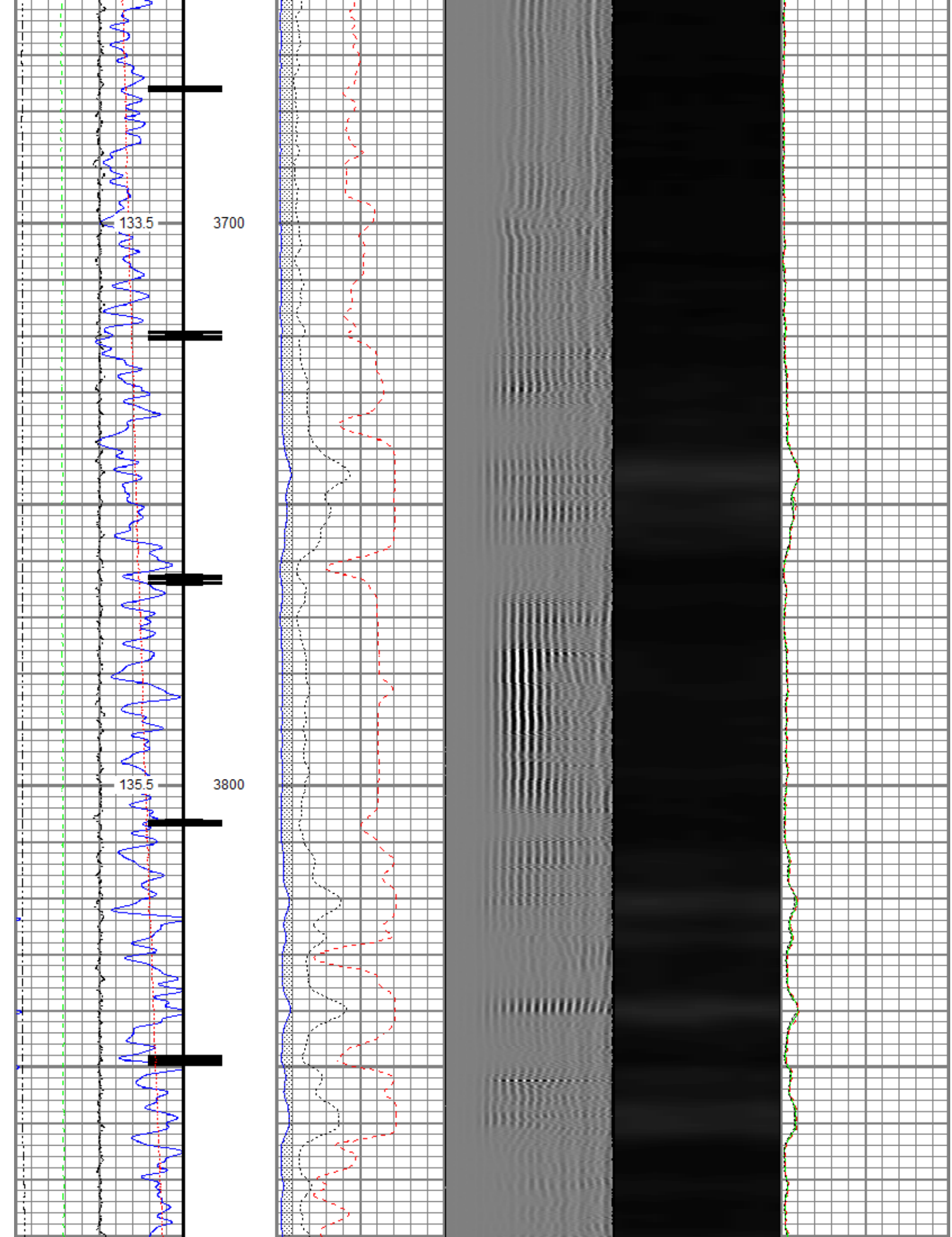


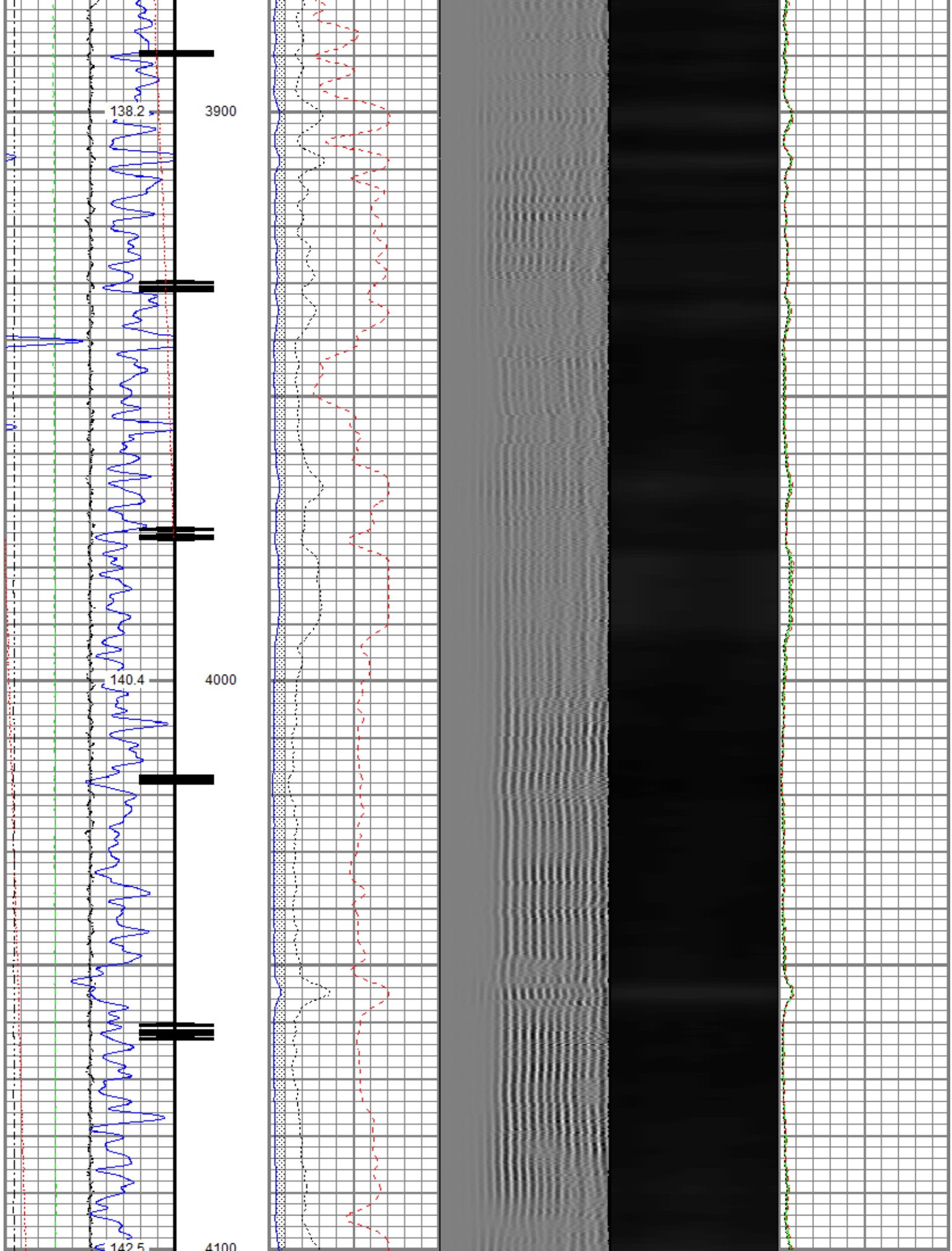




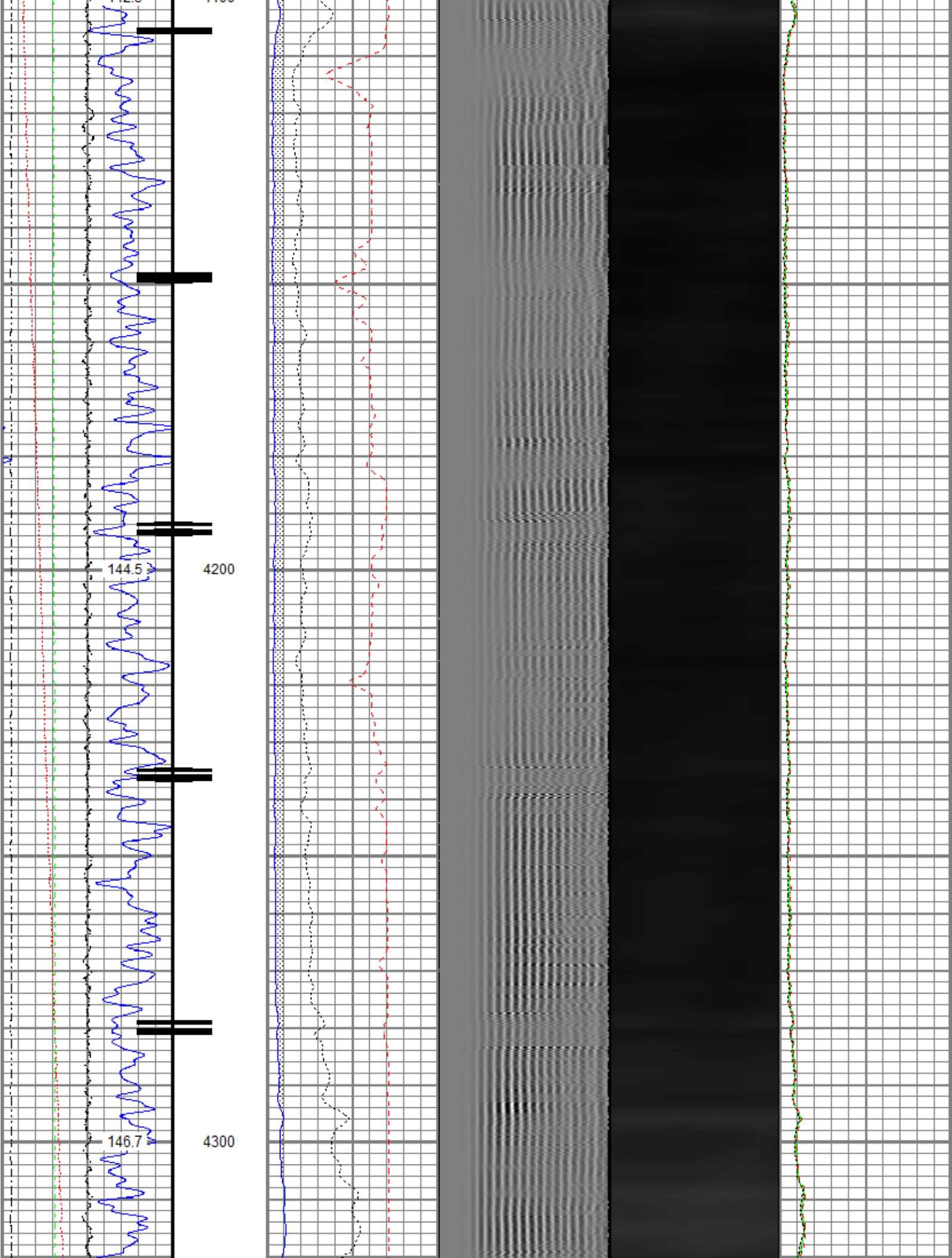


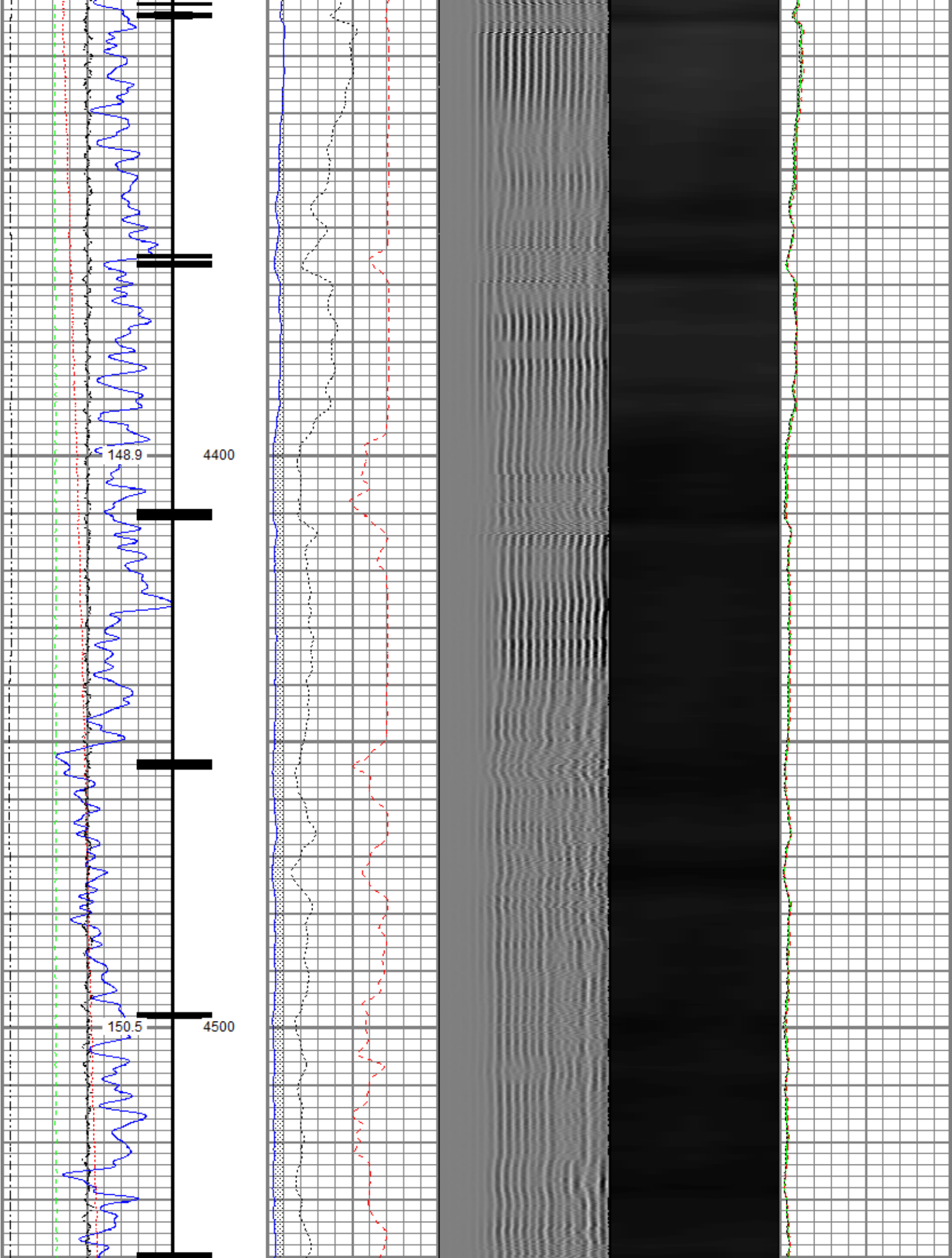


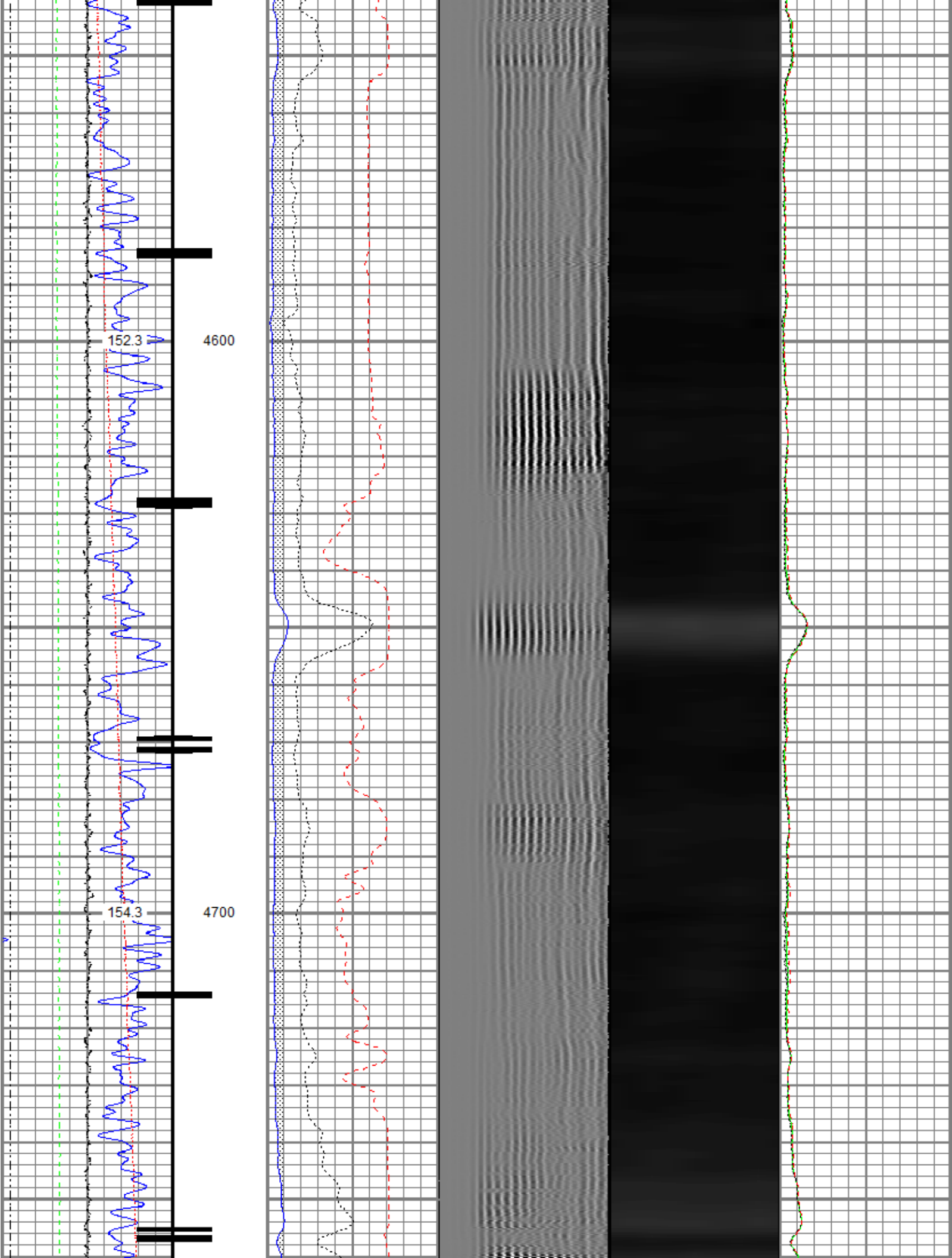


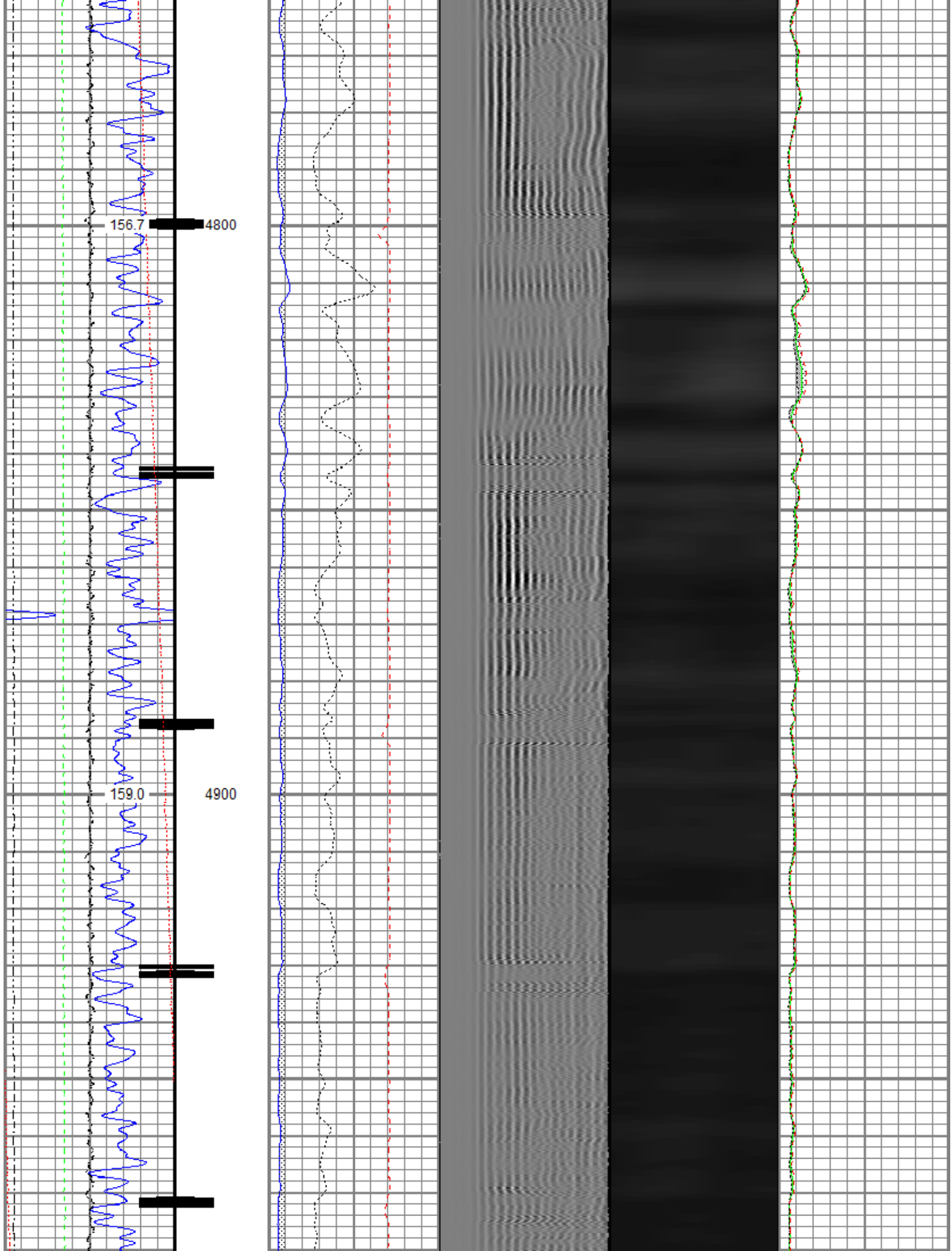




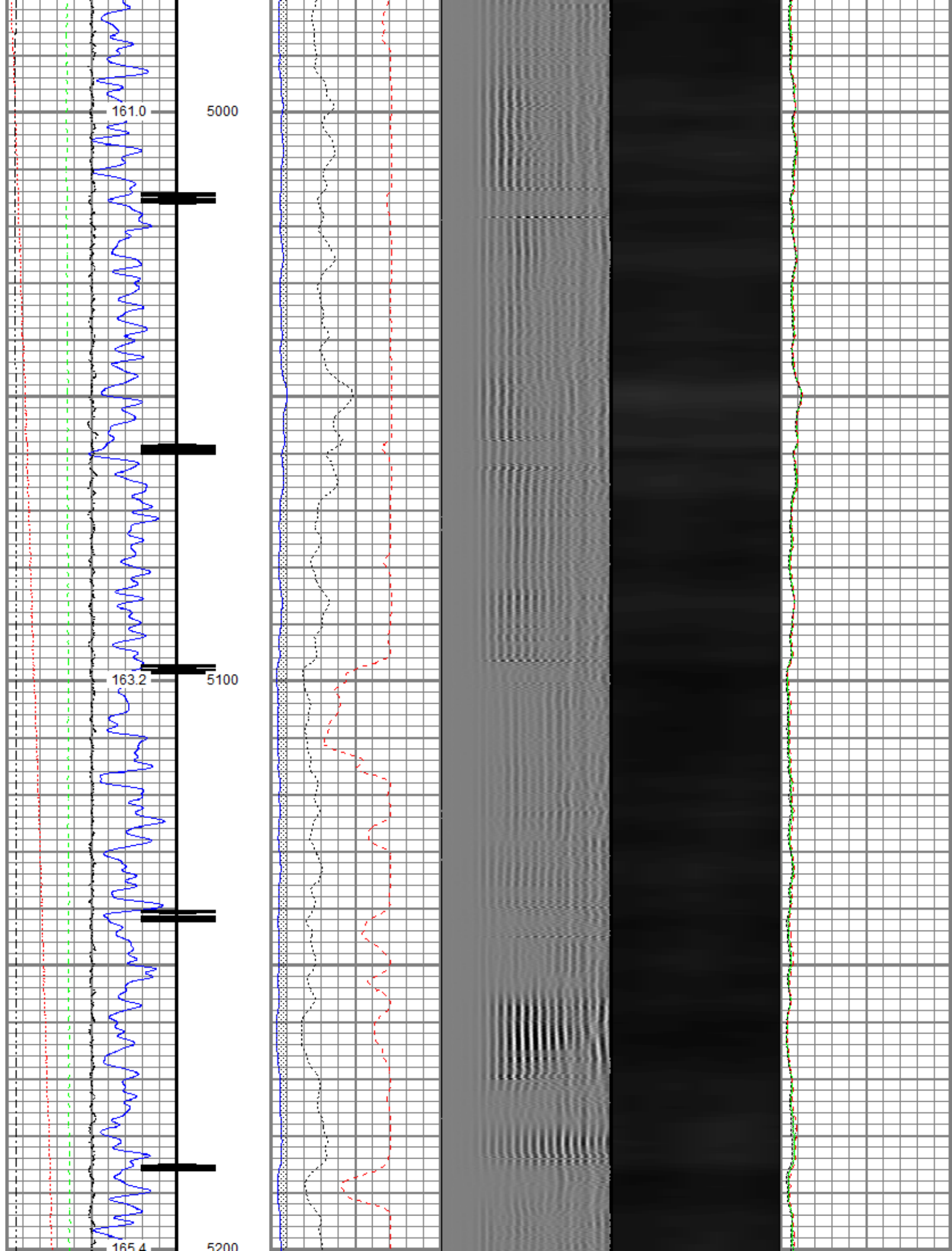


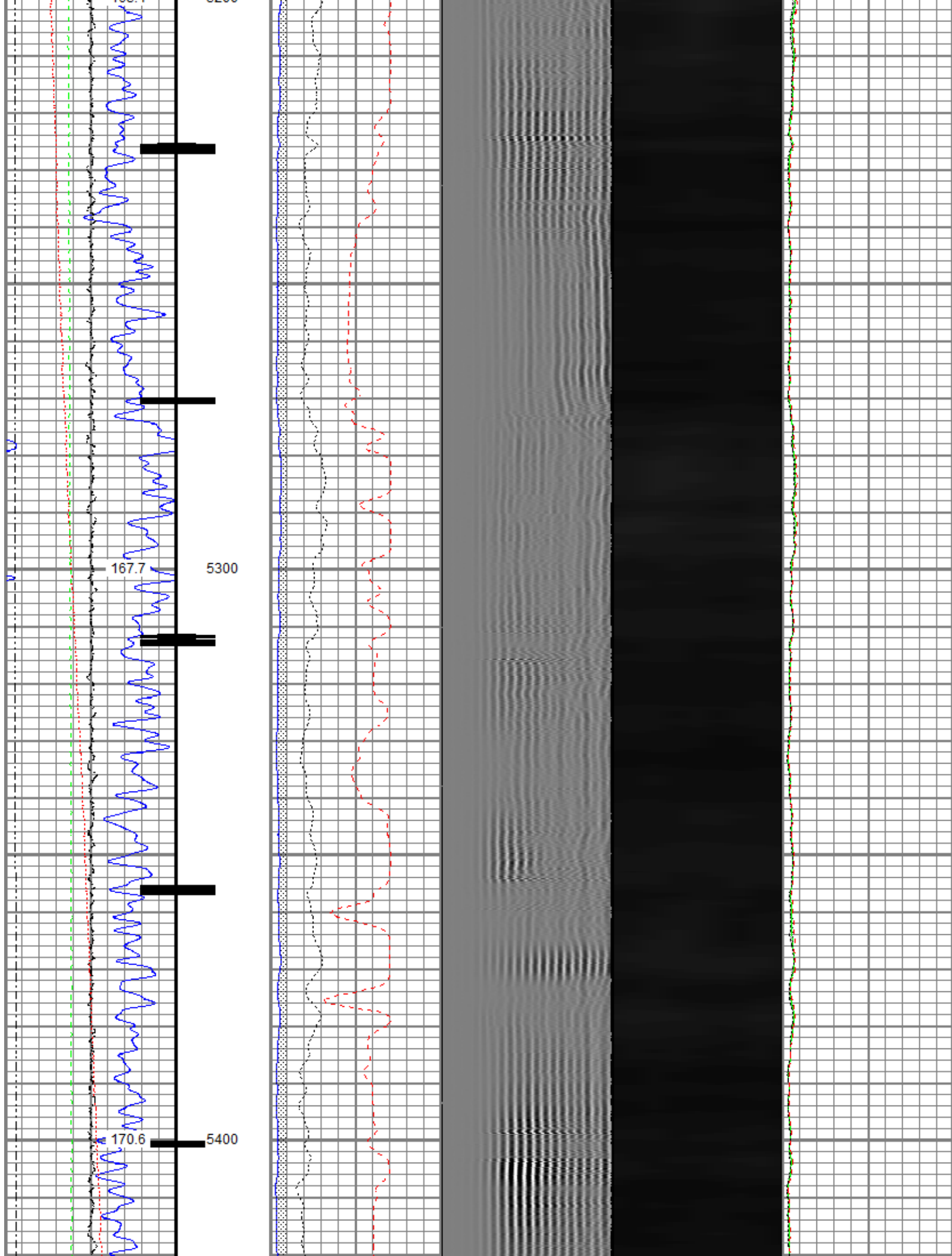


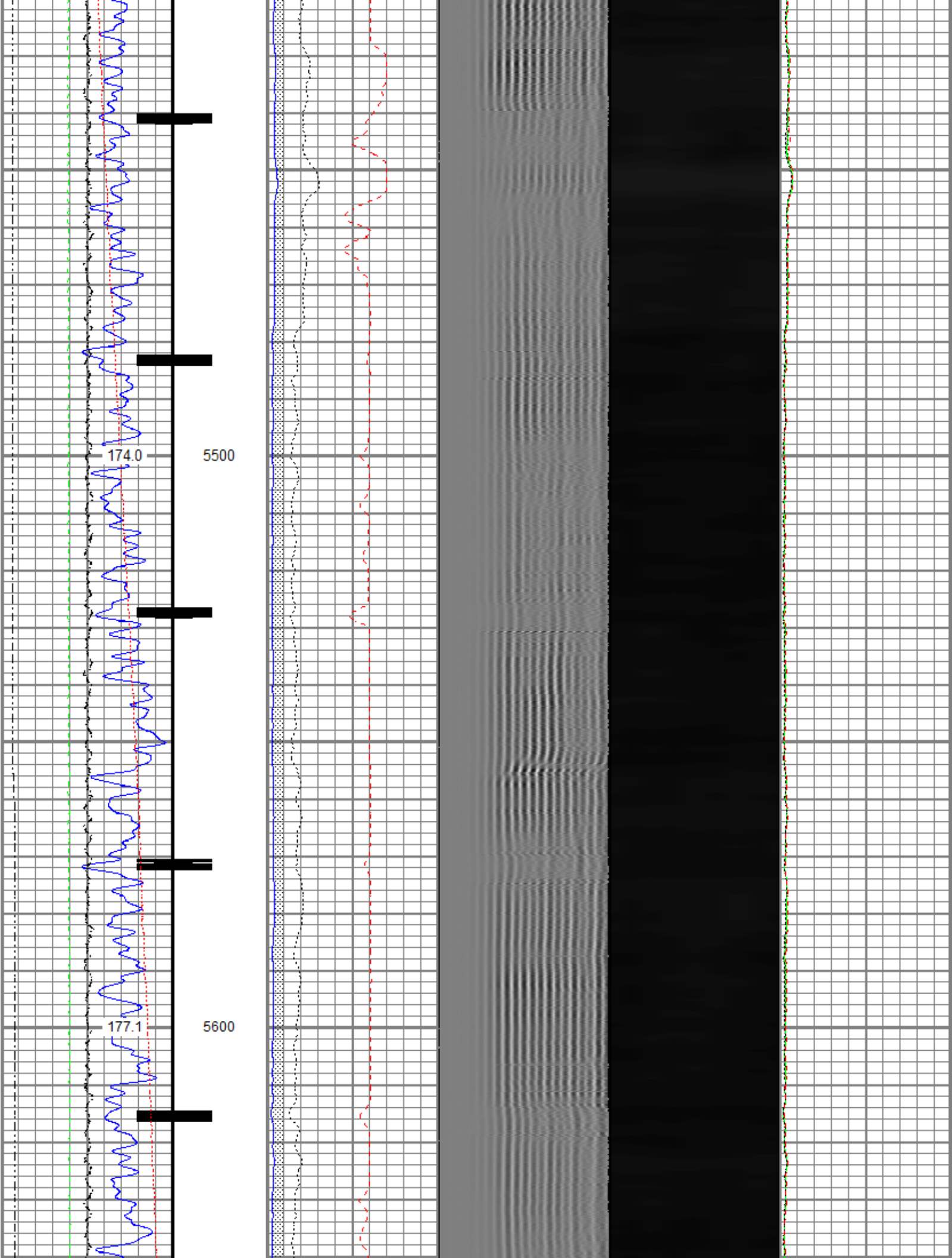


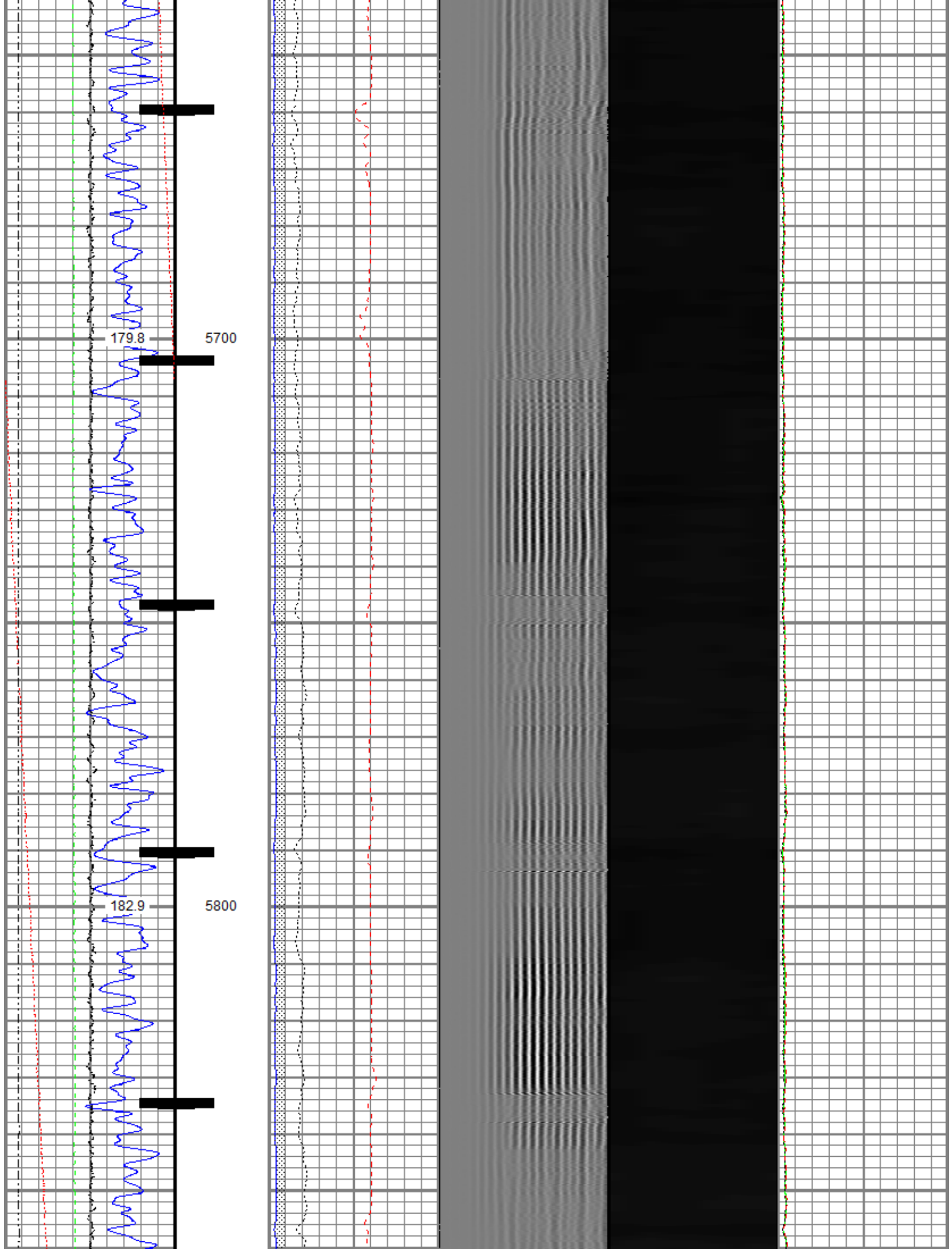




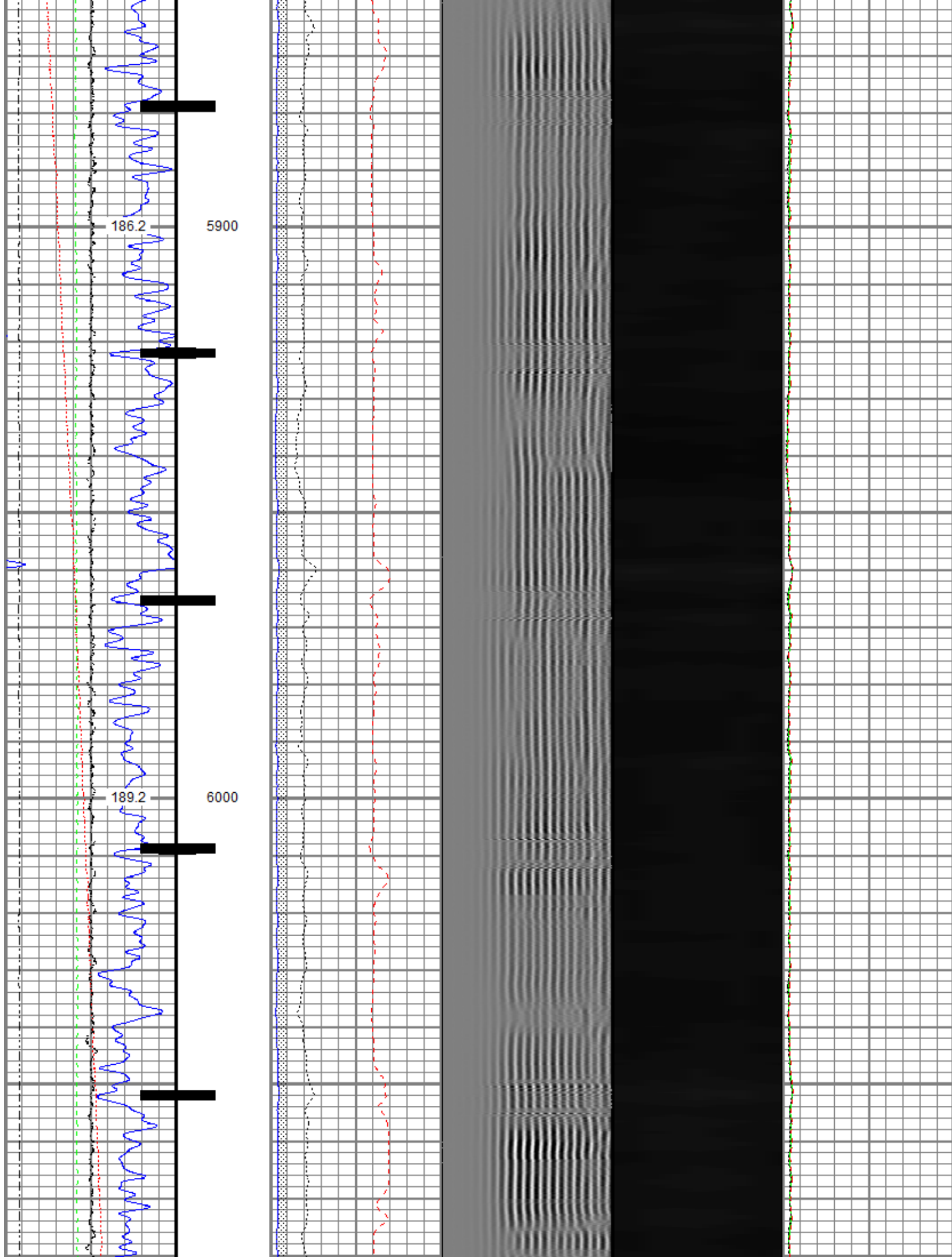


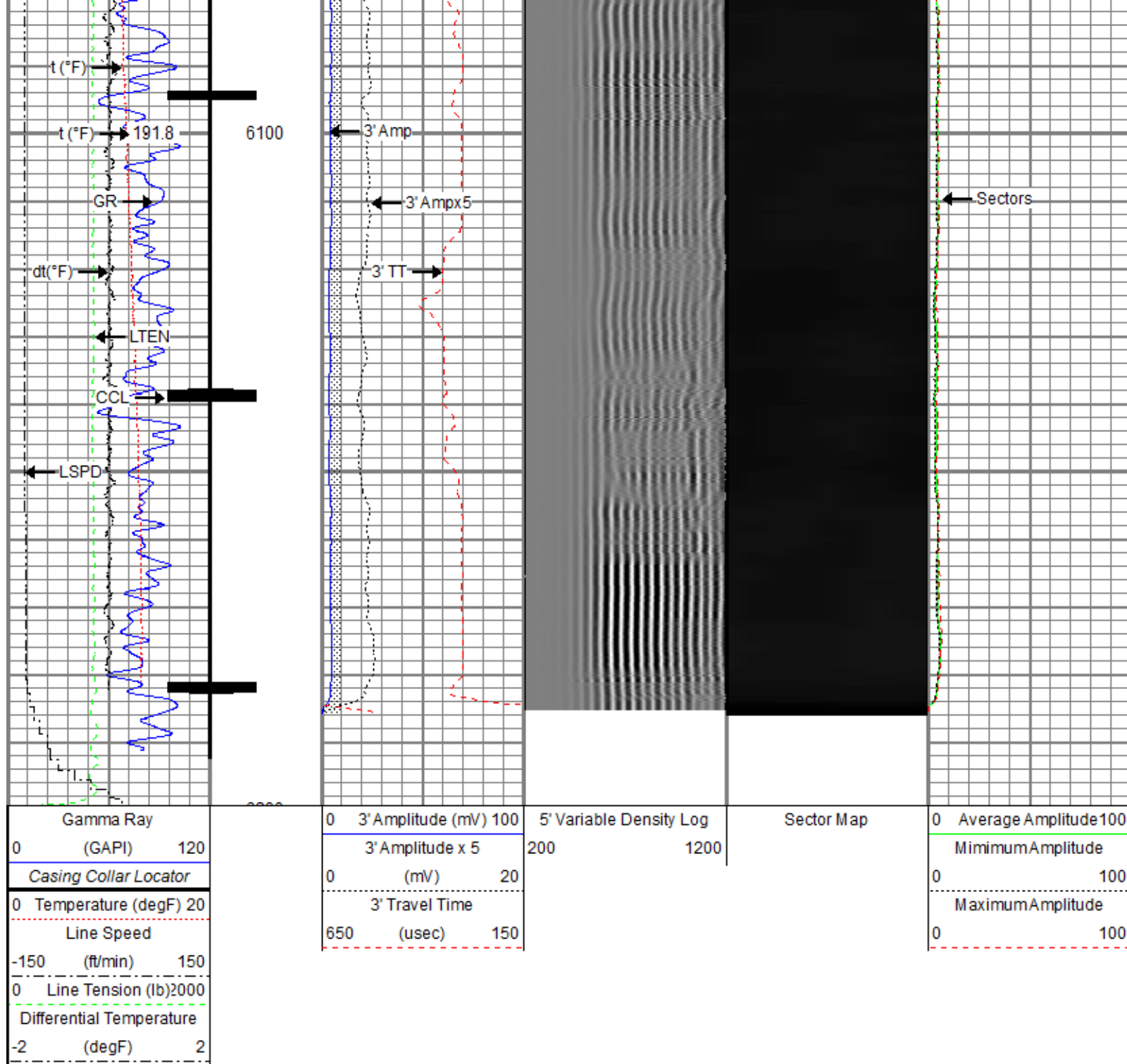








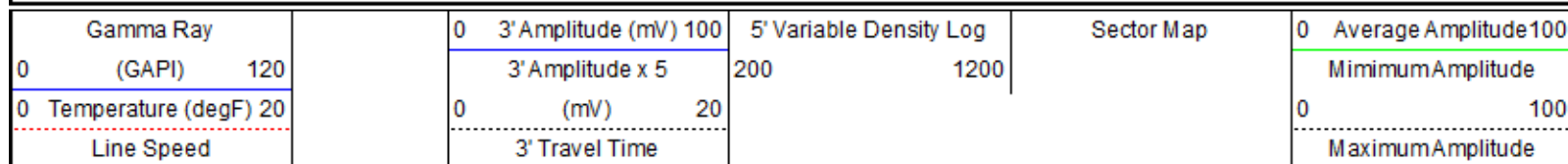




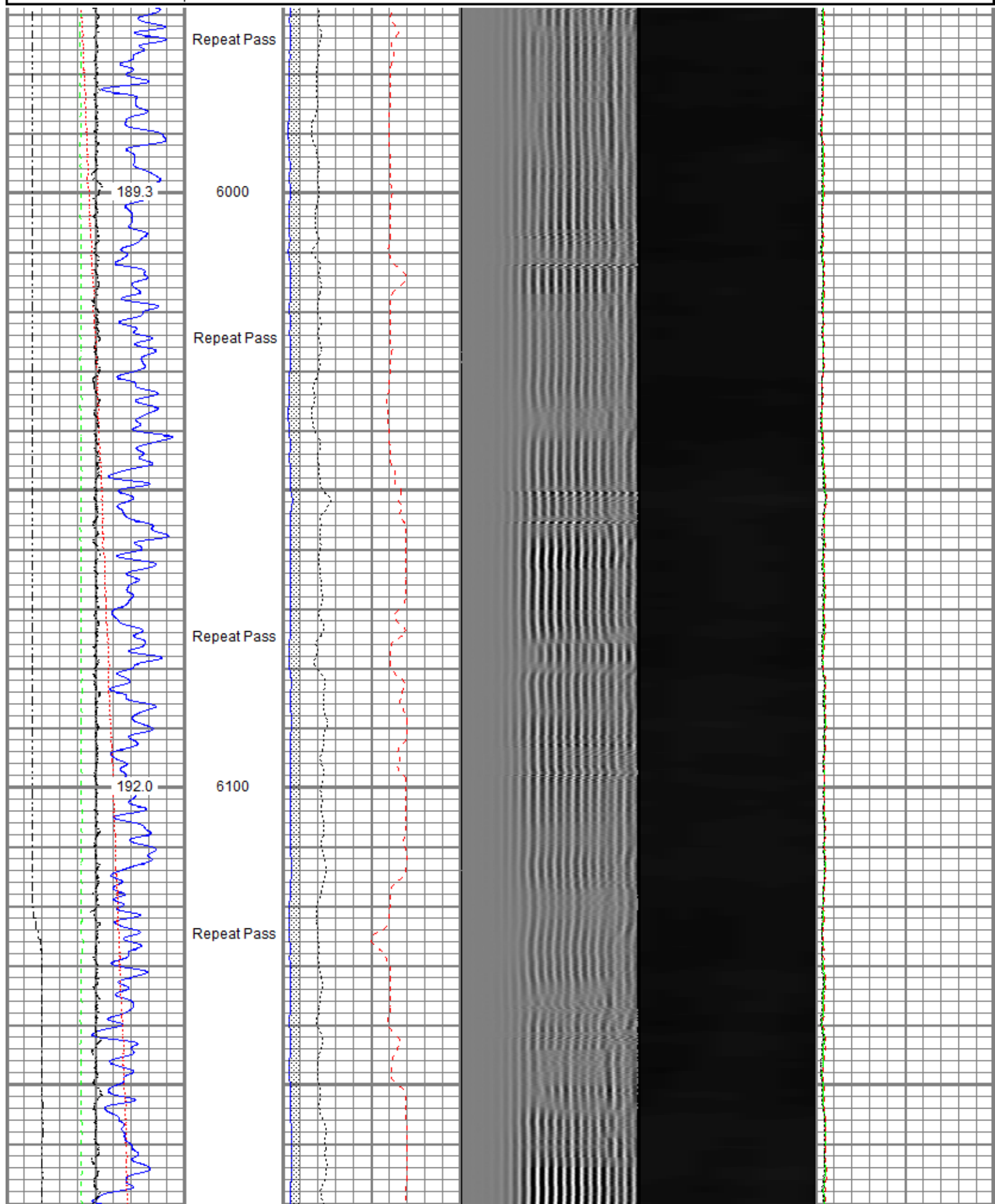
## Repeat Pass

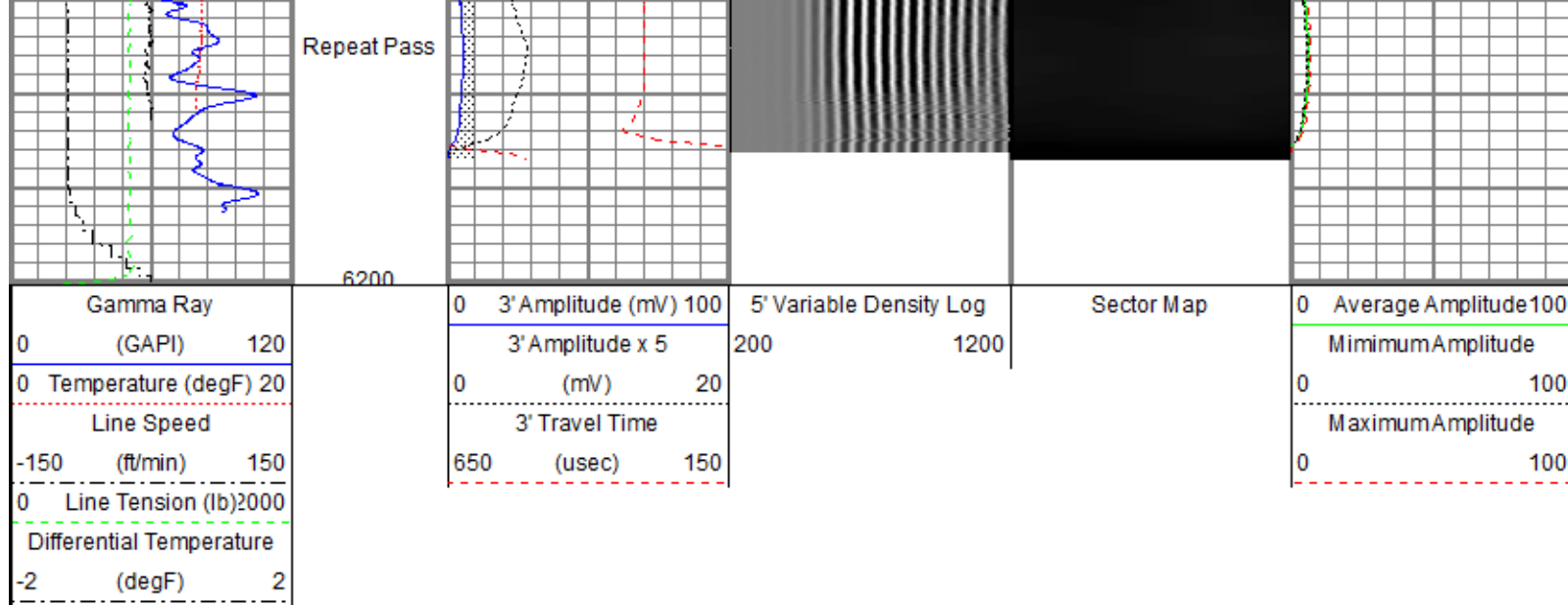
Recorded With 2800 PSI Surface Induced Pressure

Database File: new folder\revised\_0512345861\_anadarko\_hergenreder 32n-4hz\_rbl\_04-07-18.db  
 Dataset Pathname: pass8.2  
 Presentation Format: ros\_radri  
 Dataset Creation: Tue Apr 10 07:19:41 2018  
 Charted by: Depth in Feet scaled 1:240



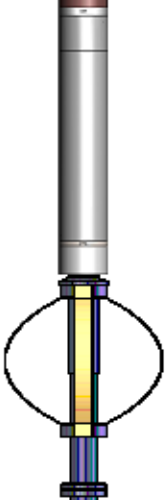
-150	(ft/min)	150	650	(usec)	150	0	100
0	Line Tension (lb)	2000					
-2	Differential Temperature						
	(degF)	2					





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	17.04		Titan CHD-14375 GO	1.03	1.44	3.60
			Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			
			Probe Radii-2750 RBT (FW0712-020)	9.39	2.75	105.00
			Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			
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					
CCL\$2	6.80					
CCL\$4	6.80					
CCL\$6	6.80					
CCL\$8	6.80					
CCL\$10	6.80					
CCL\$12	6.80					
CCL\$14	6.80					
CCL\$16	6.80					
CCL\$18	6.80					
CCL\$20	6.80					



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: revised_0512345861_anadarko_hergenreder 32n-4hz_rbl_04-07-18.db: field/well/run1/pass10.2 Total length: 23.86 ft Total weight: 223.60 lb O.D.: 2.75 in						

Internal Reference Calibration: performed (Not Performed)

Internal Reference Calibration, performed (Not Performed).

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.384	1.000	0.000

Air Zero Calibration, performed Sat Apr 07 09:37:29 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: FW0712-020  
Tool Model: 2750 RBT  
Performed: Thu Dec 21 07:48:40 2017

	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF
Gain:	0.84	
Offset:	7.72	
Delta Spacing	1	



Company	Kerr-McGee Oil & Gas Onshore, L.P.
Well	Hergenreder 32N-4HZ
Field	Wattenberg
County	Weld
State	Colorado