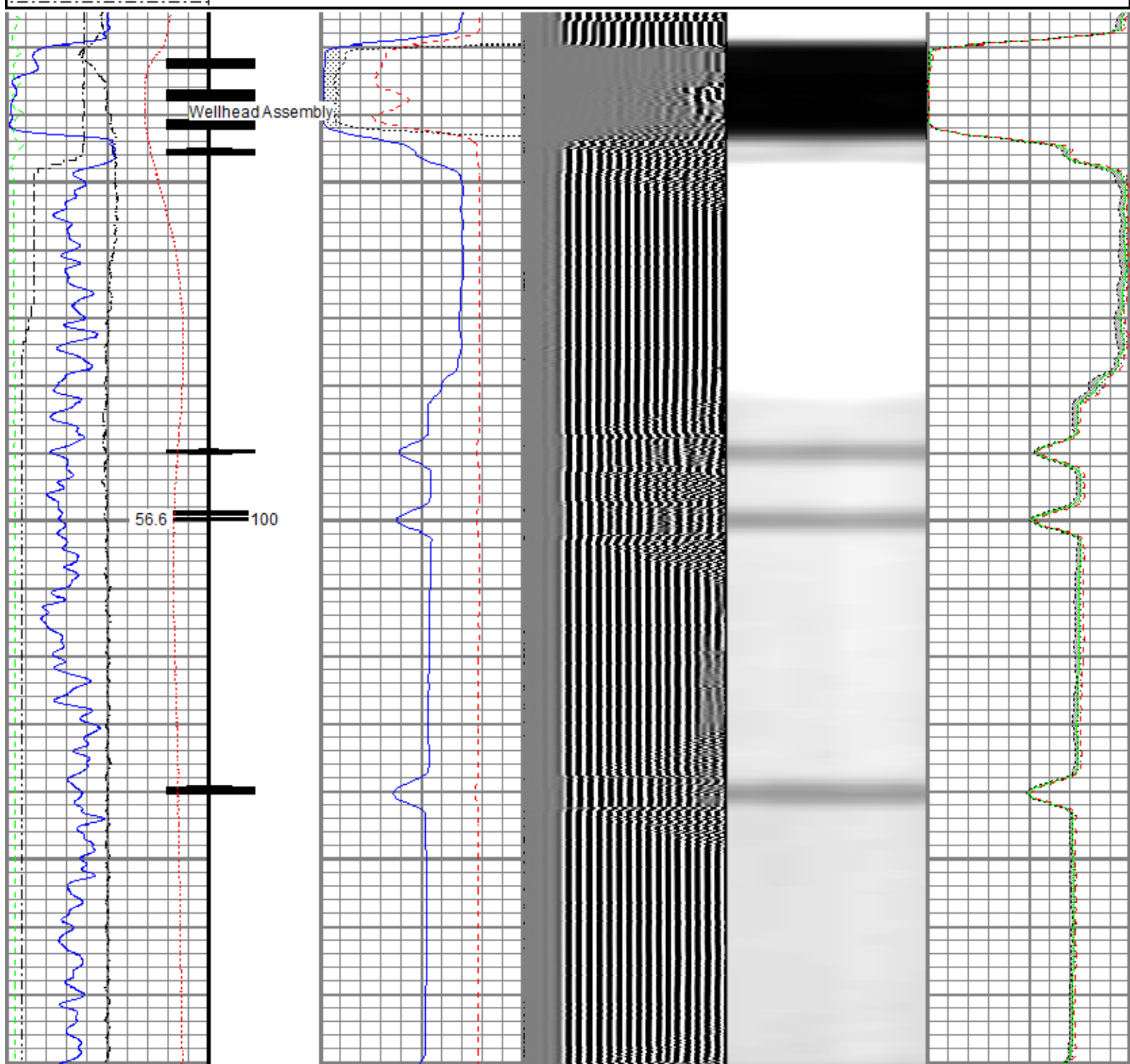
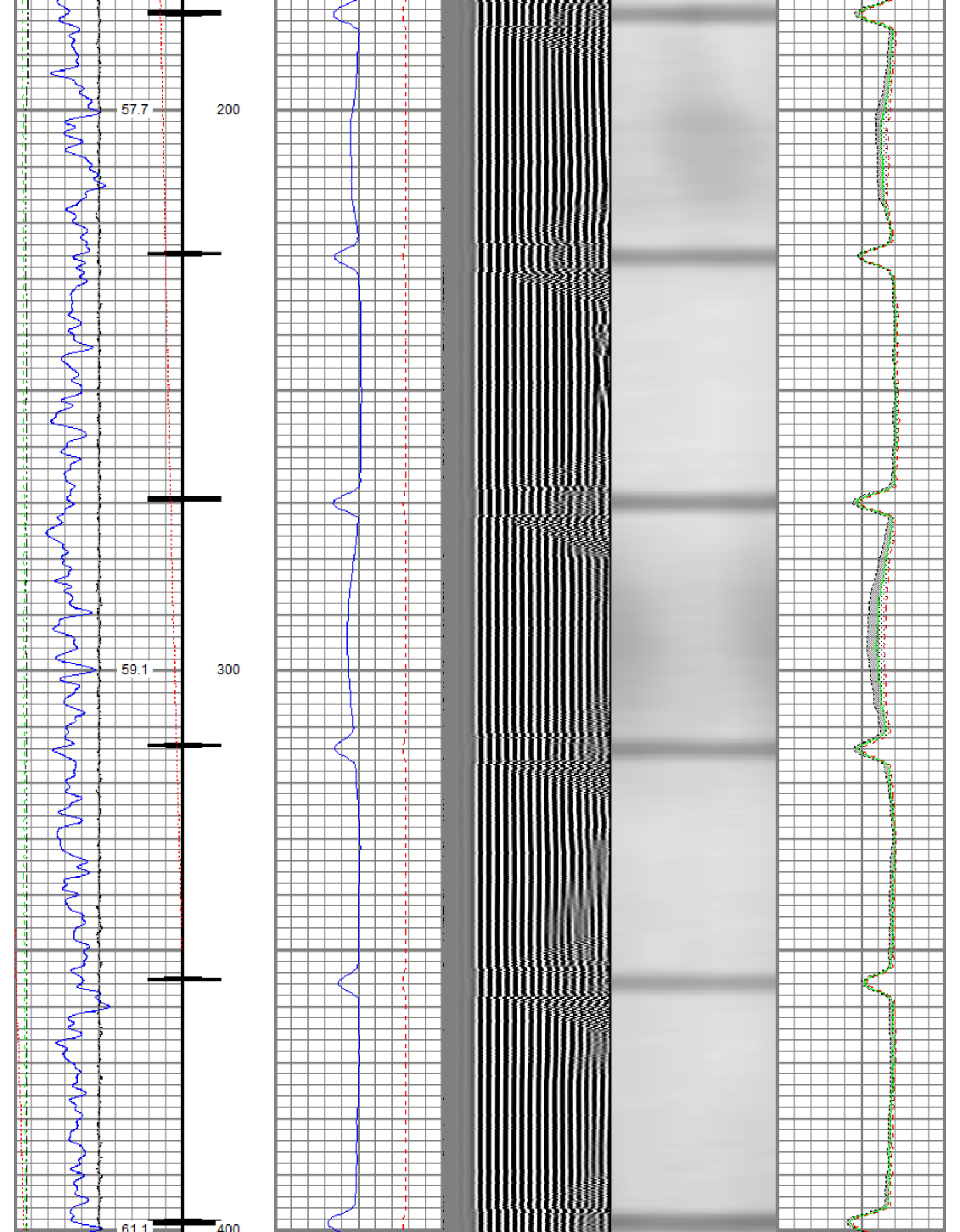


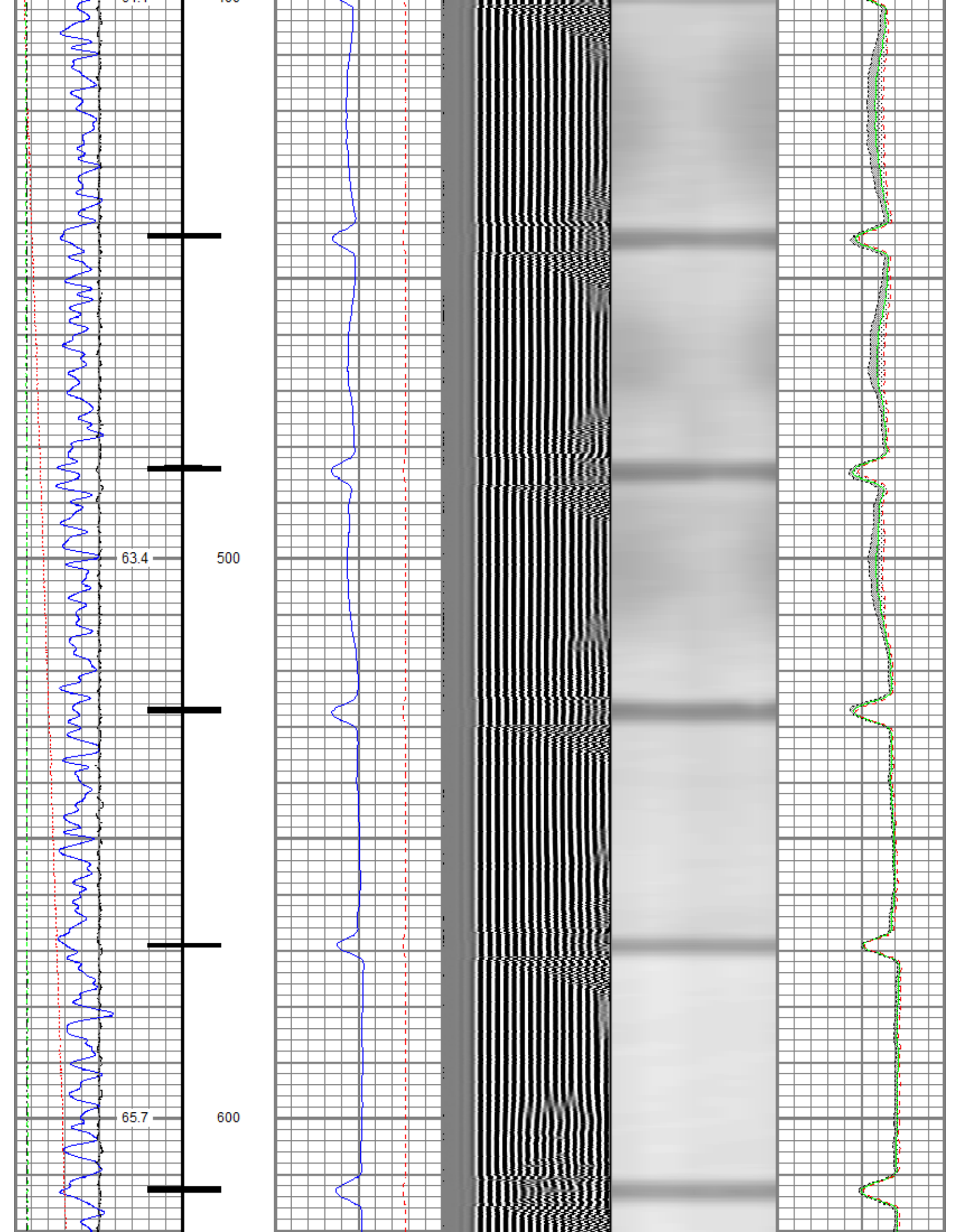
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Marker Joint from Casing Tally at 6374 FT Adjusted +5 FT to correlate with Marker Joint Gauge Ring/Junk Basket ran to 7401 FT with no debris Log ran from 40 FT above RBP 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!!

Database File anadarko\newby state 37n-4hz\0512345087\_anadarko\_newby state 37n-4hz\_rbl\_03-15-18.db  
Dataset Pathname RBL/pass6.1  
Presentation Format ros\_radrii  
Dataset Creation Thu Mar 15 08:52:56 2018  
Charted by Depth in Feet scaled 1:240

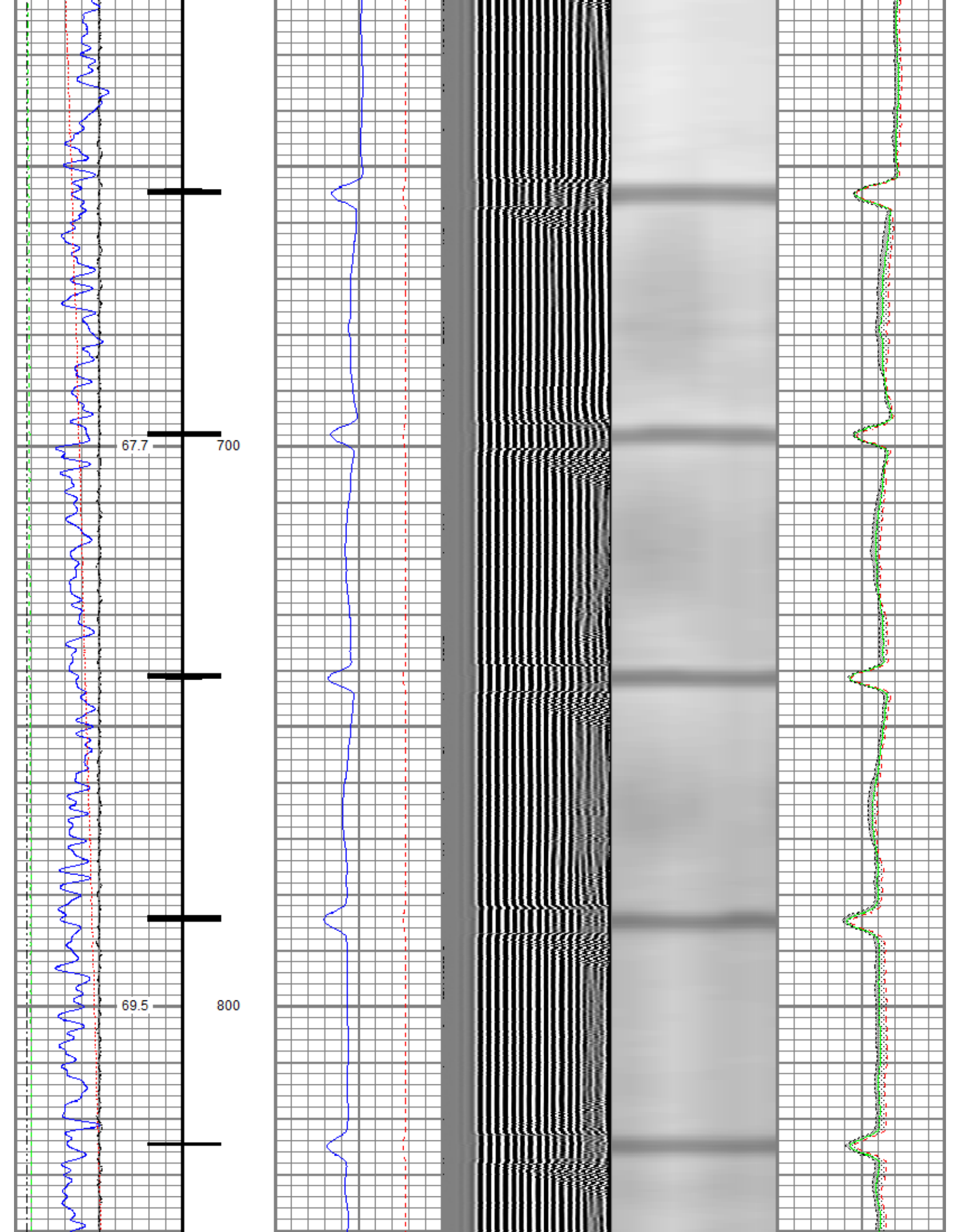
Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
(GAPI)	120	3' Amplitude x 5		200 (usec)	1200		Minimum Amplitude	
Casing Collar Locator		0 (mV)	20			0		100
0 Temperature (degF)	20	3' Travel Time					Maximum Amplitude	
Line Speed		650 (usec)	150			0		100
-150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

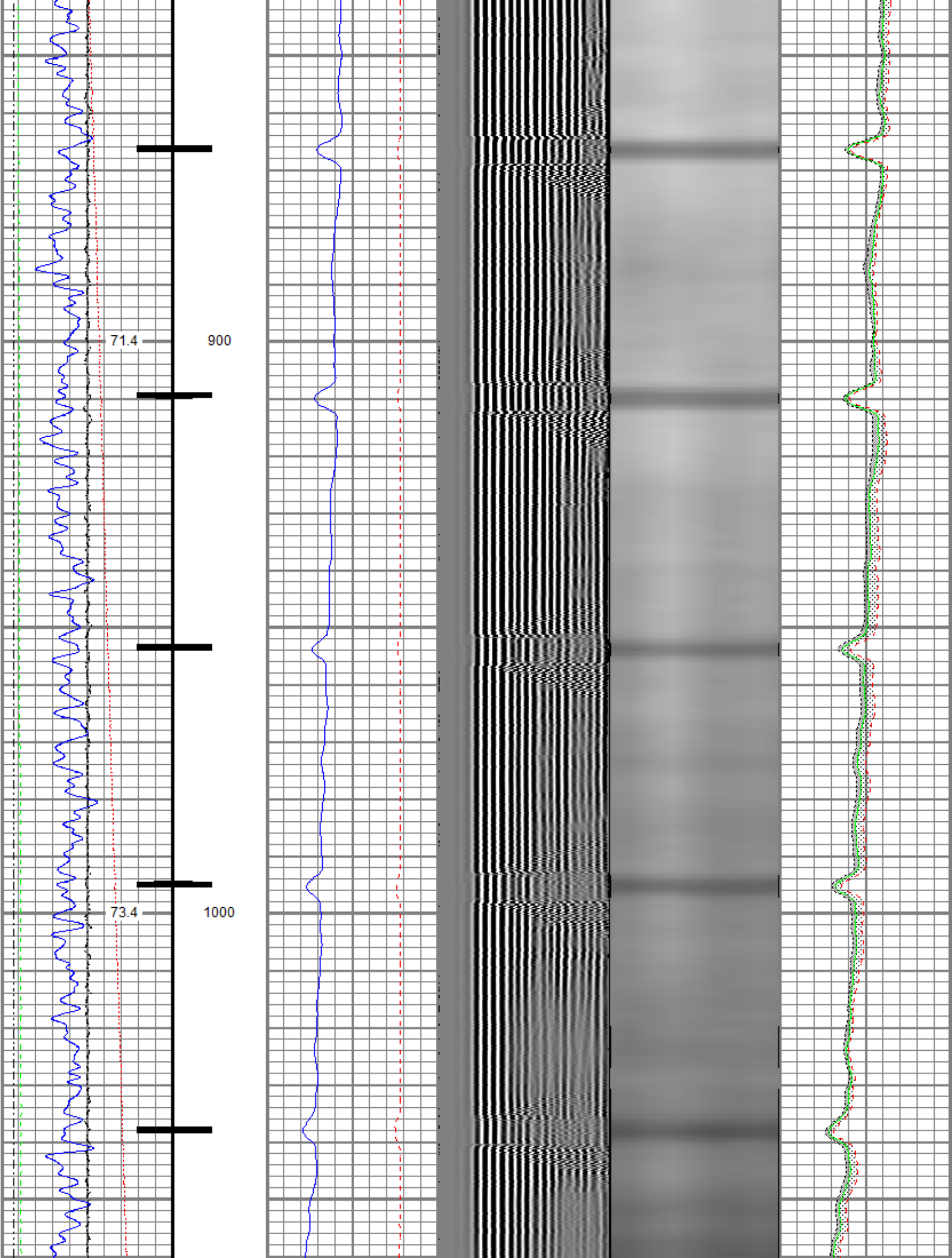


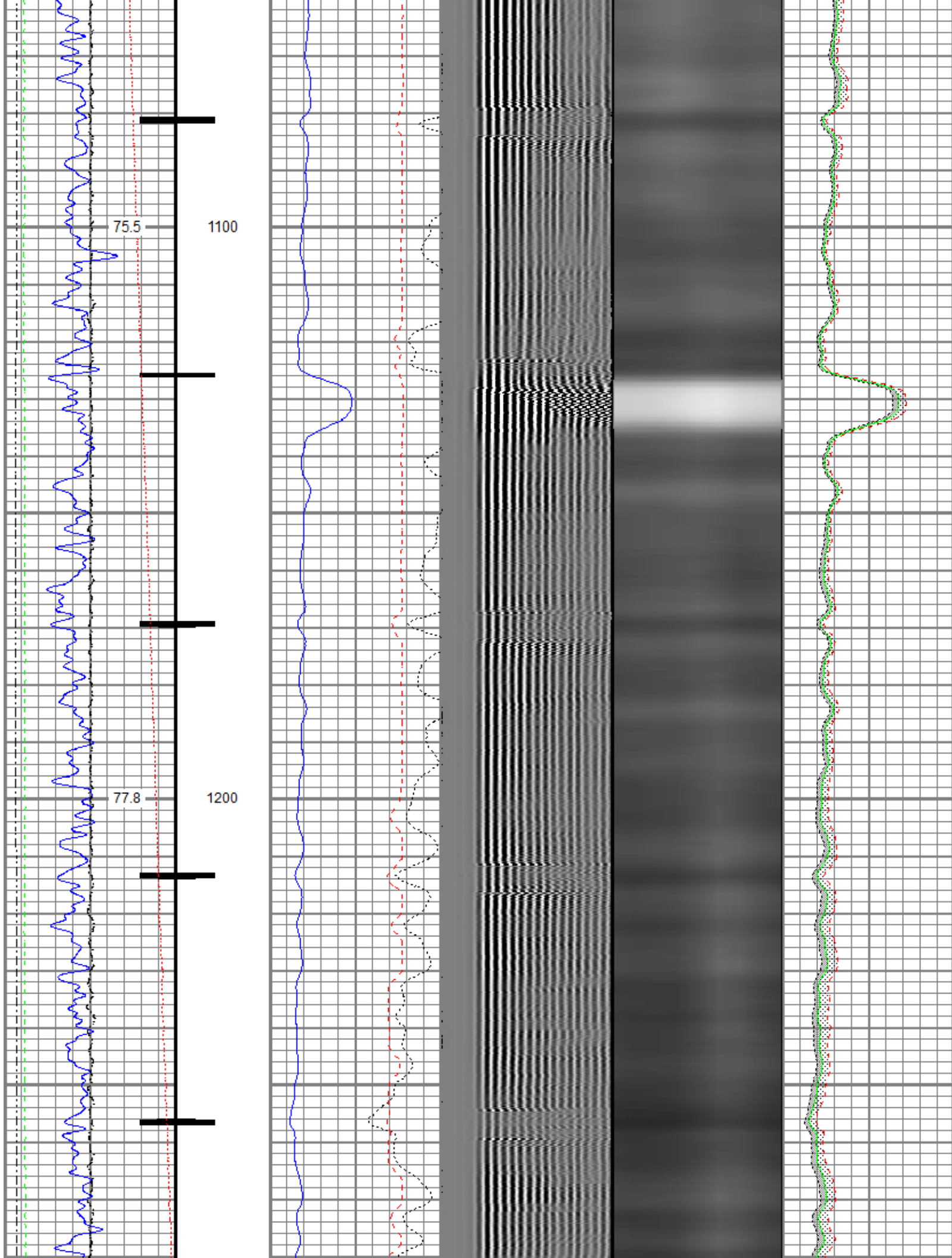




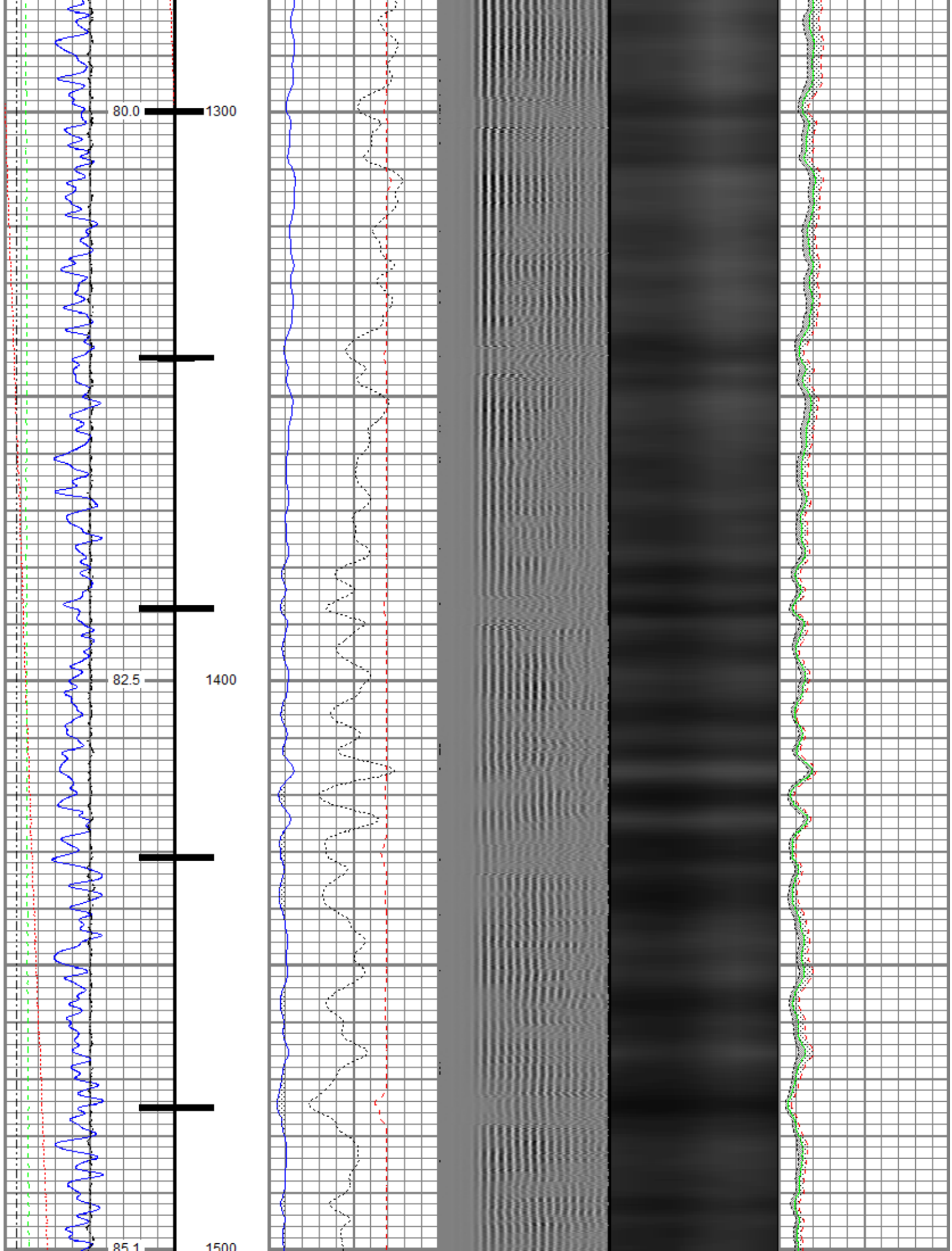




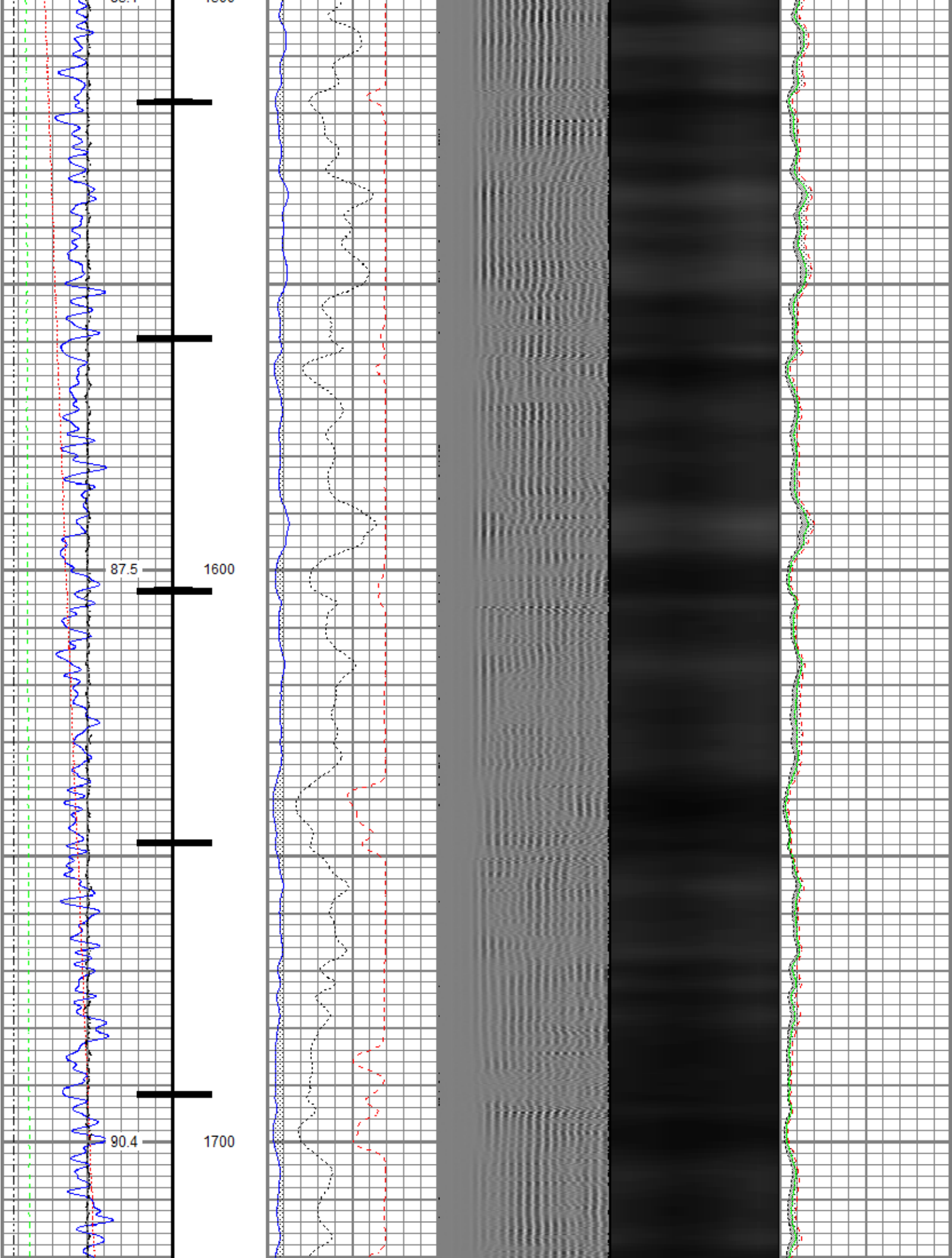


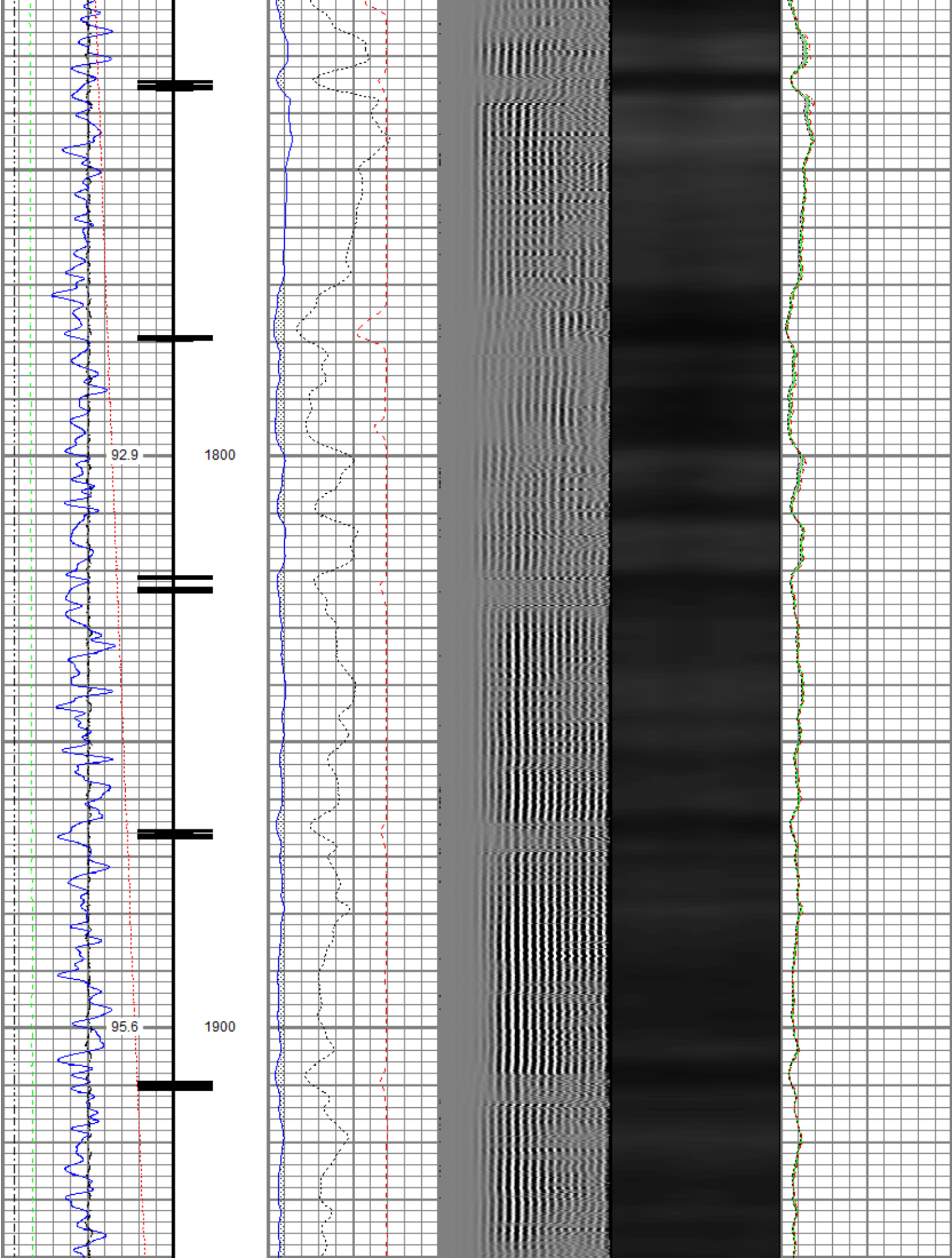


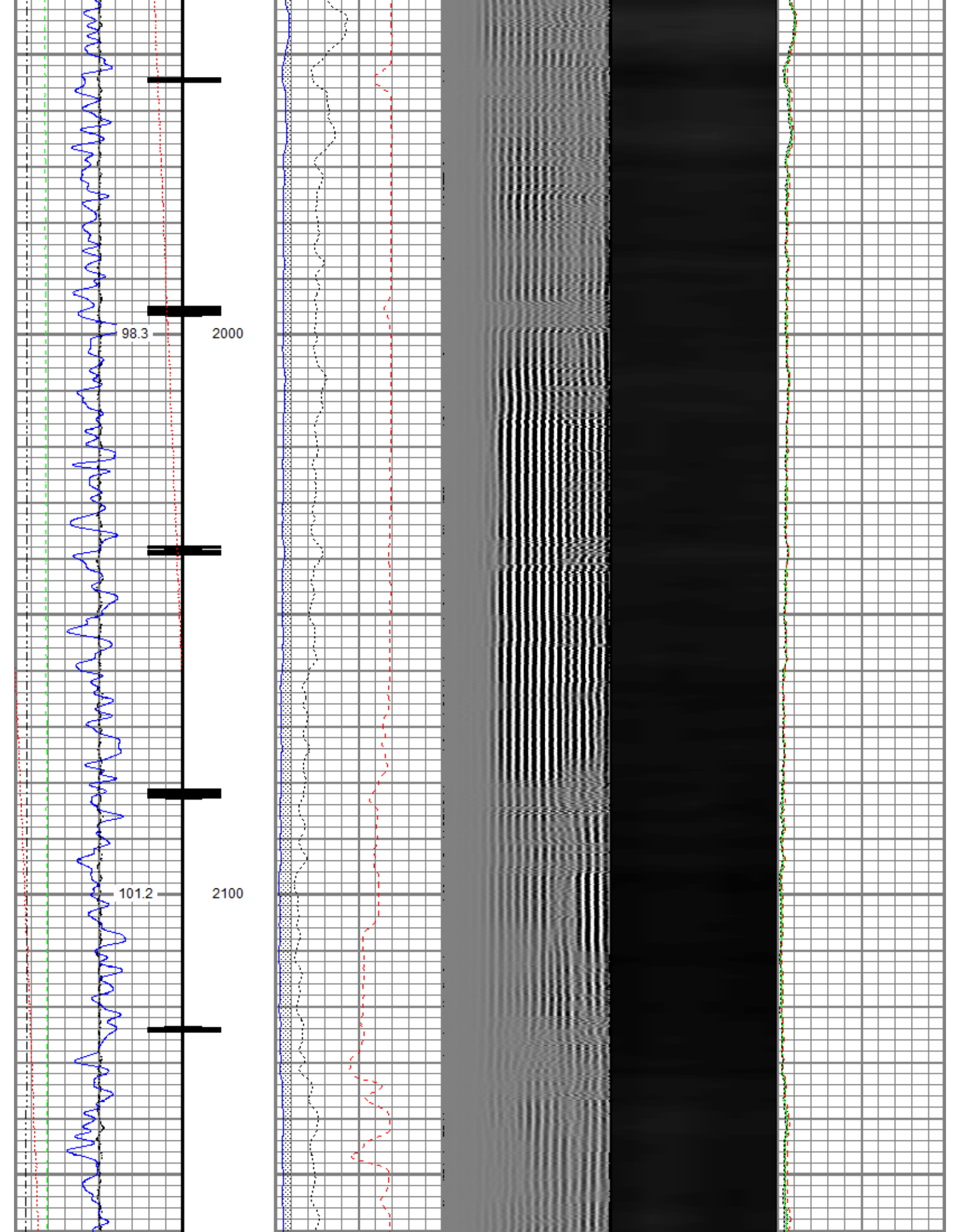


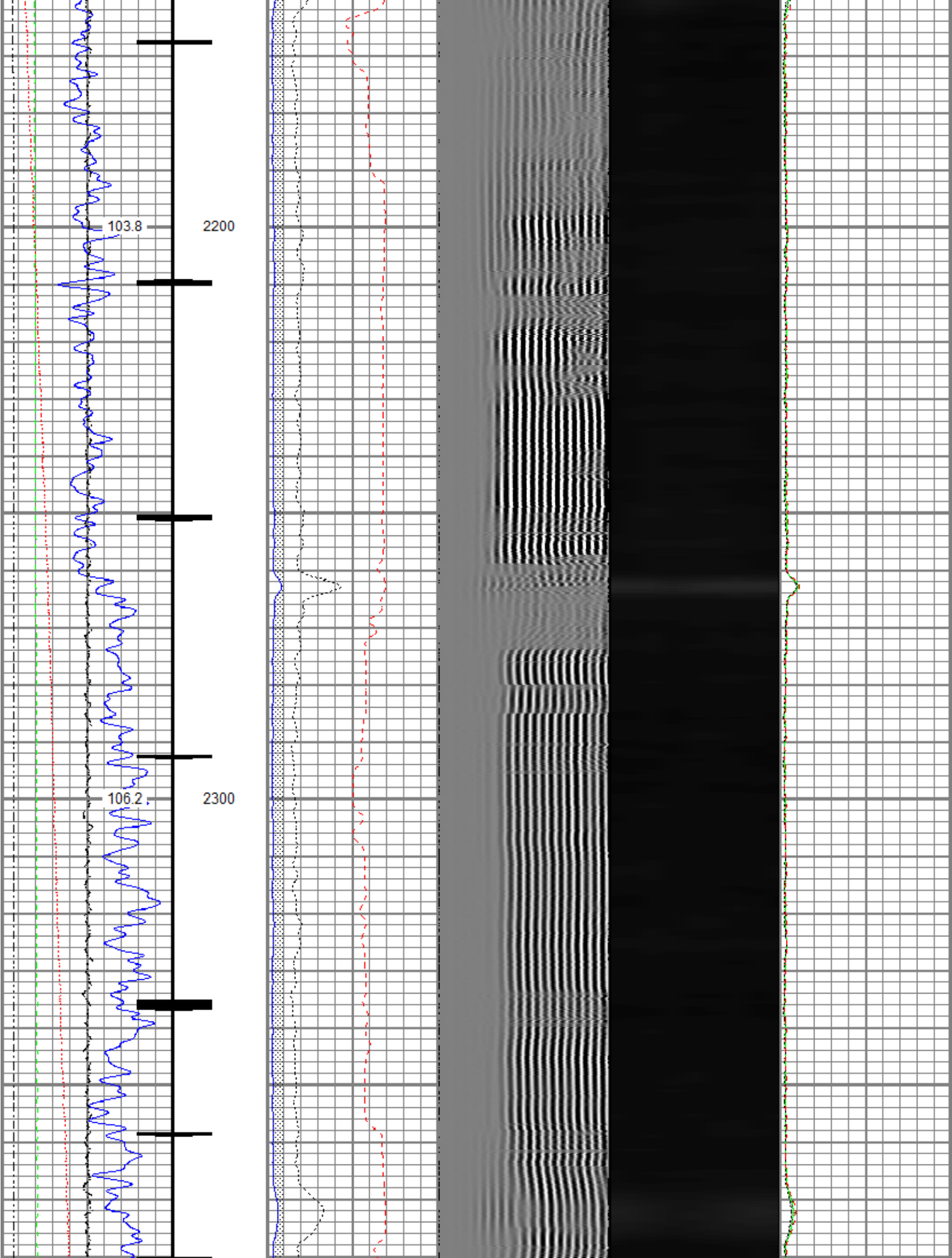




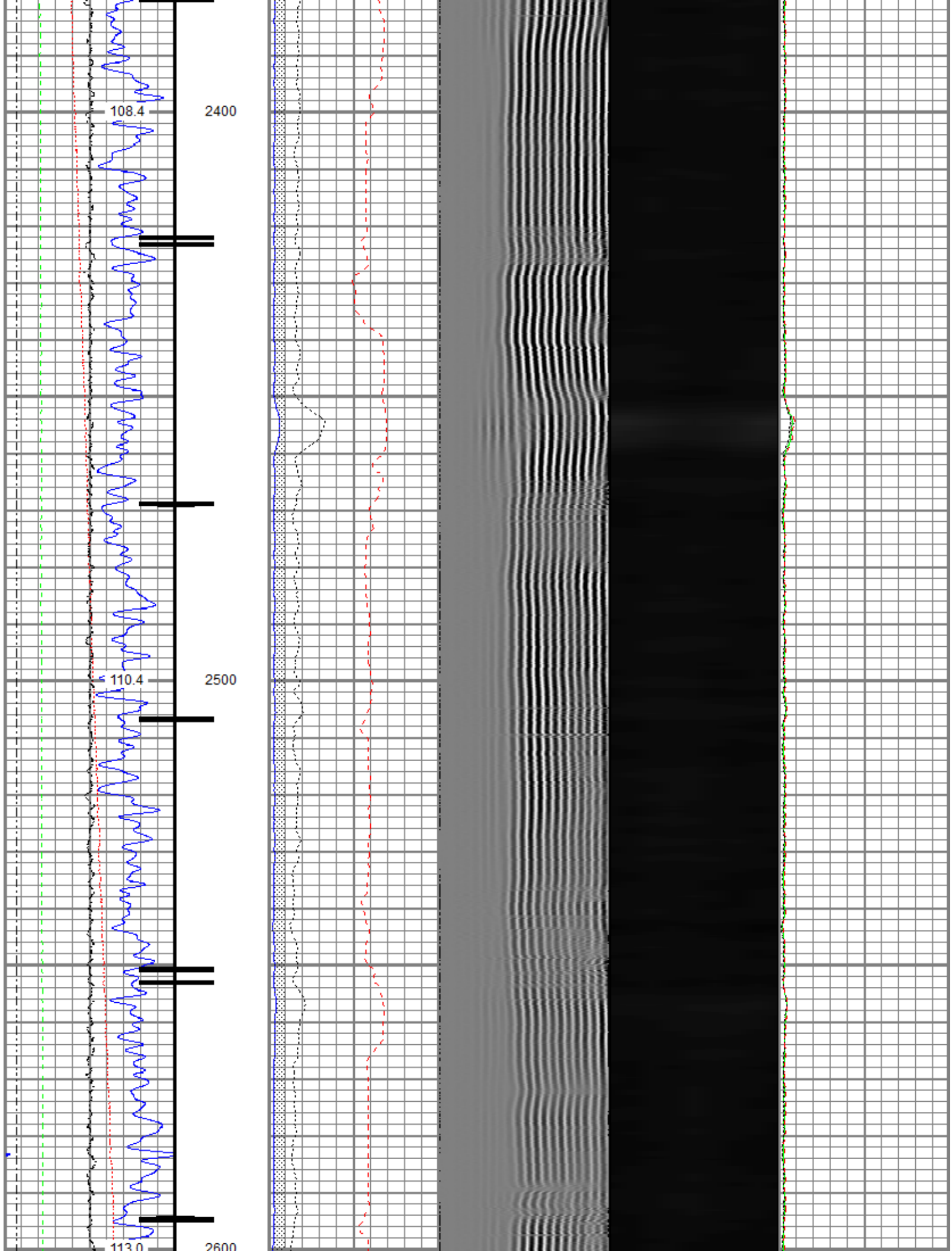


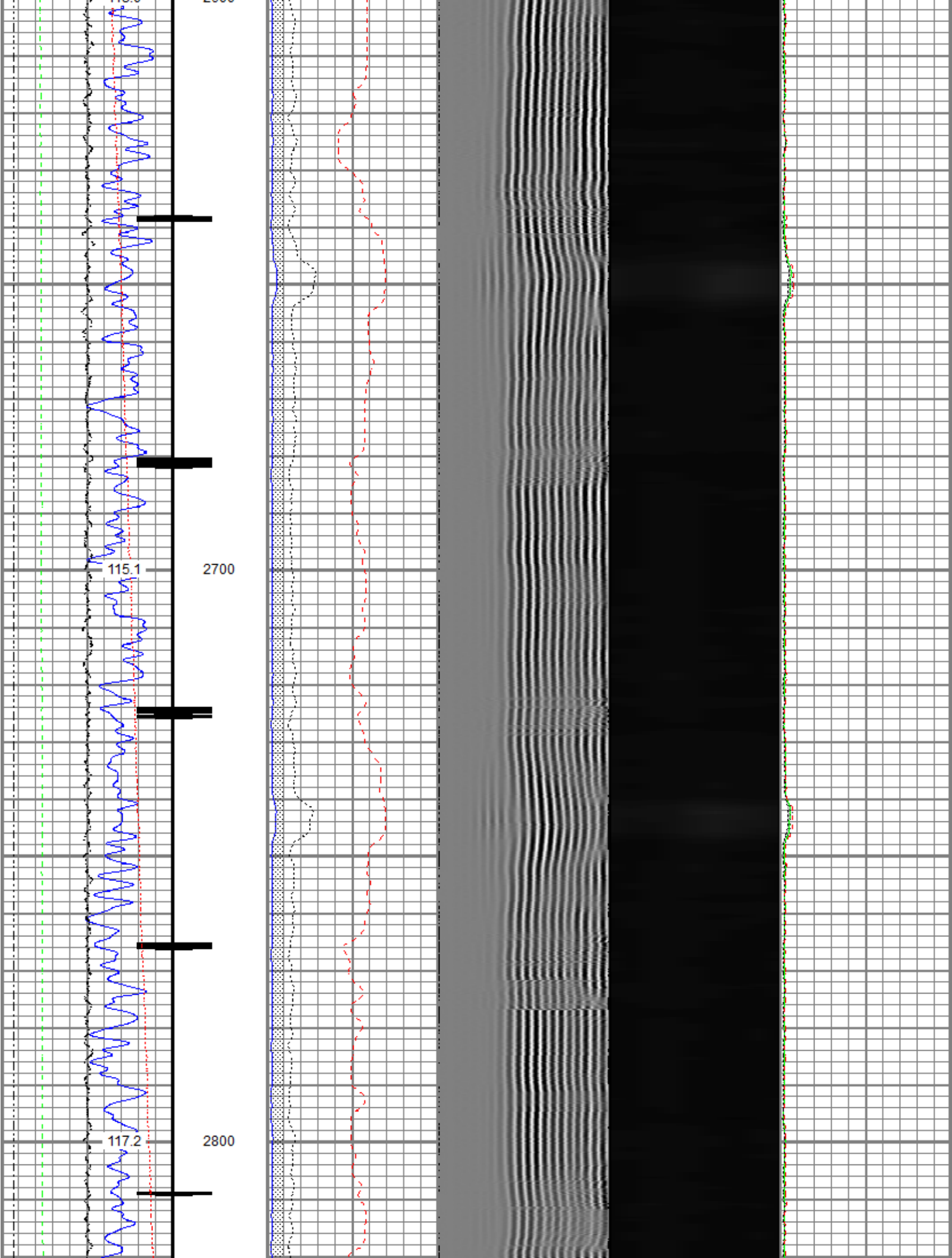


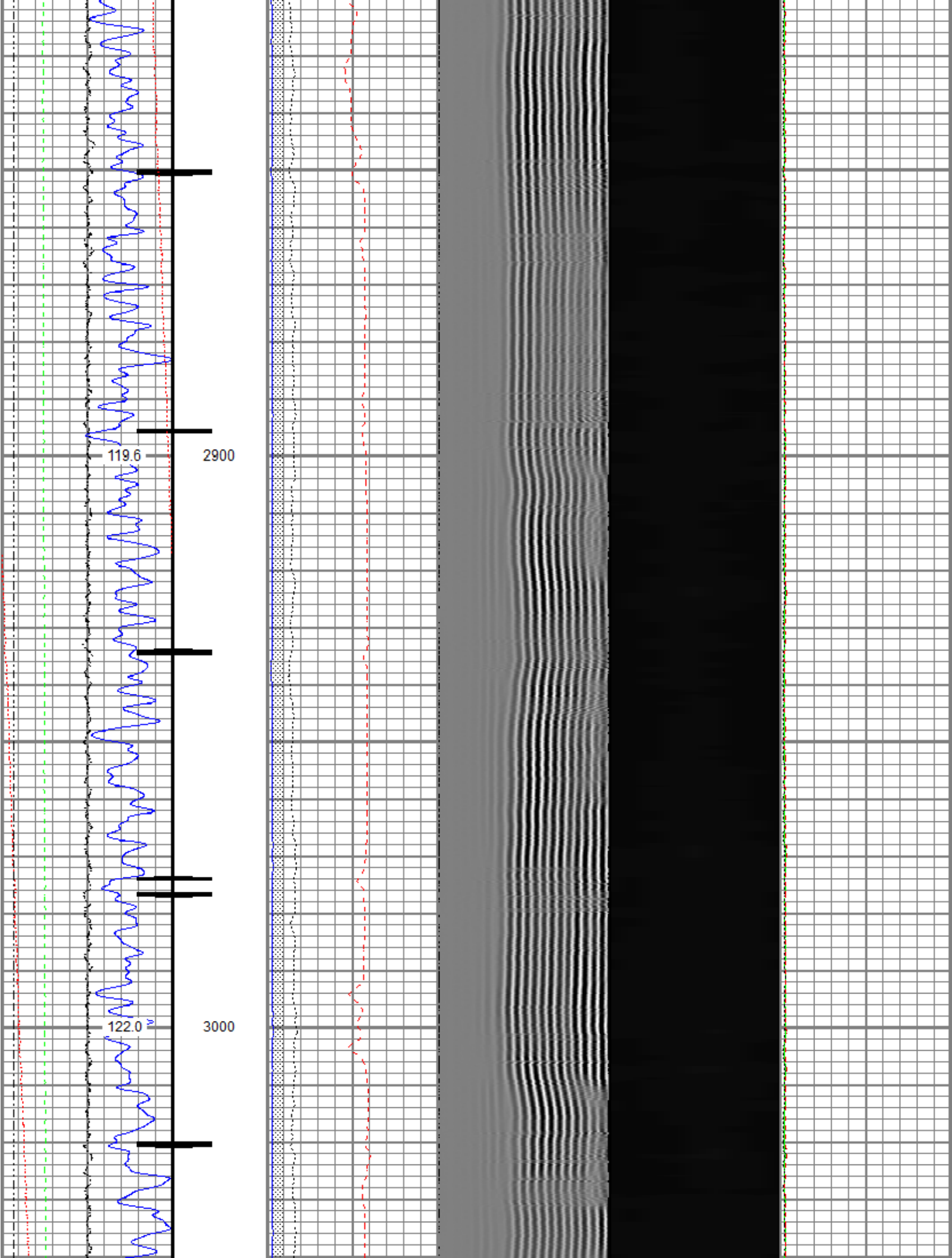


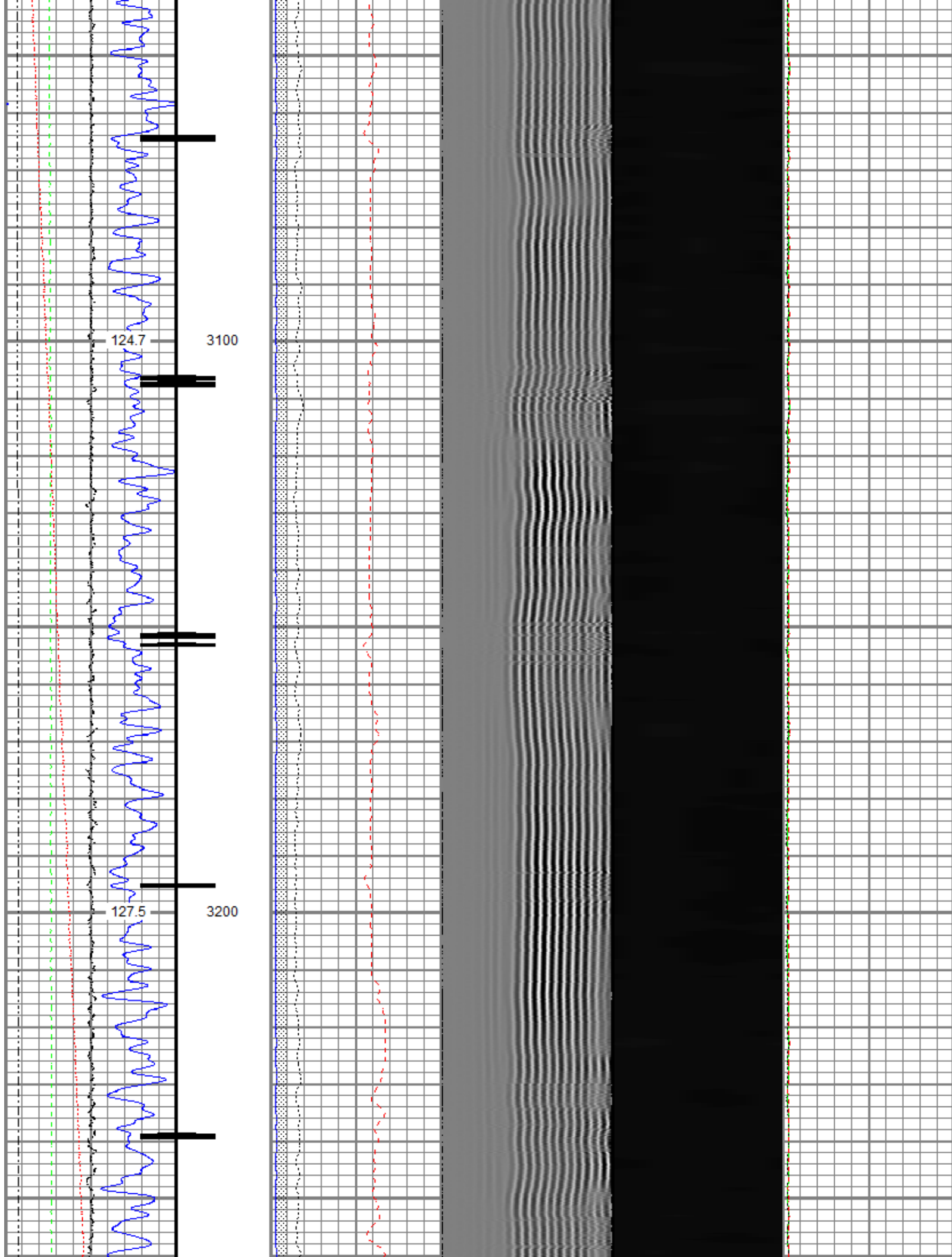




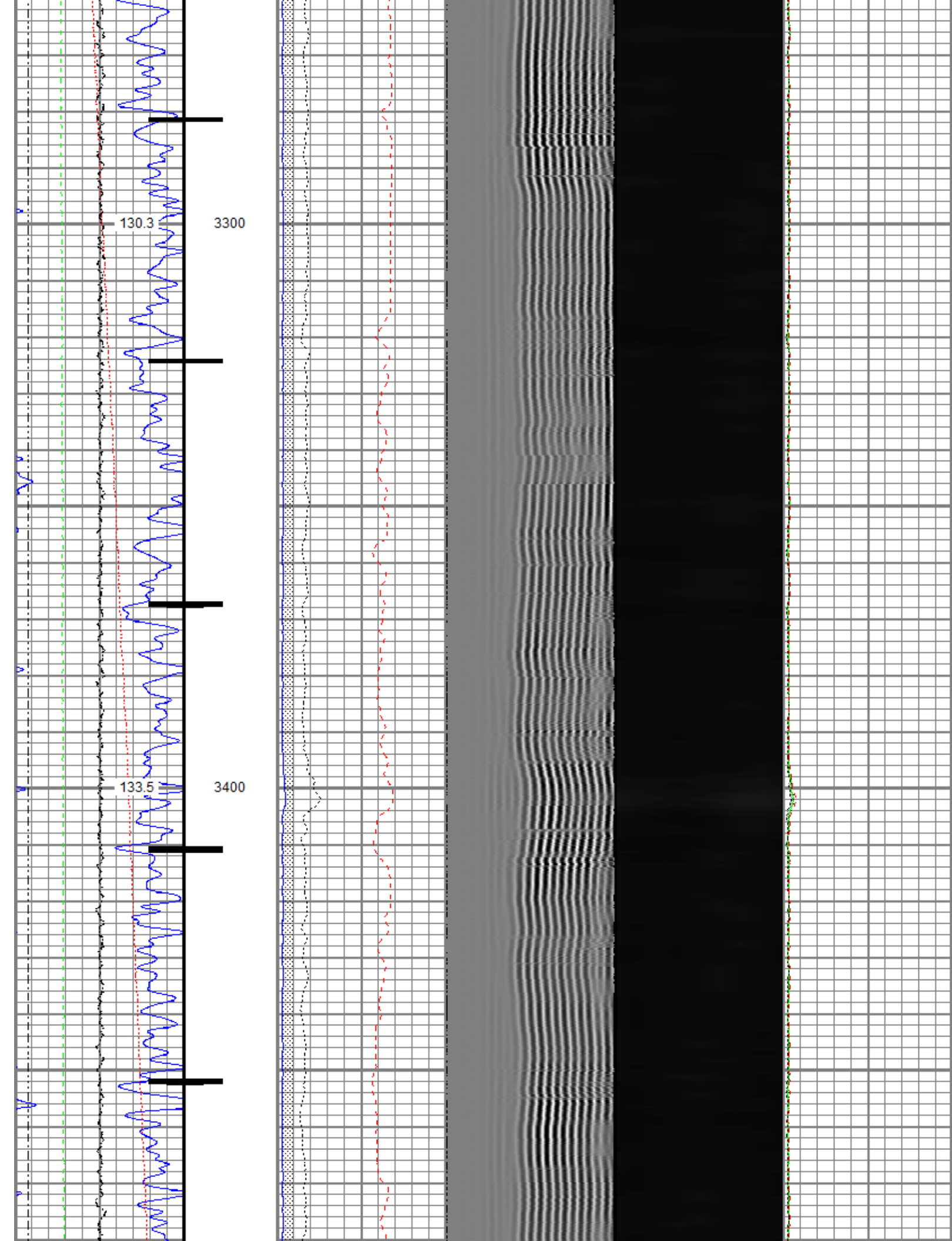


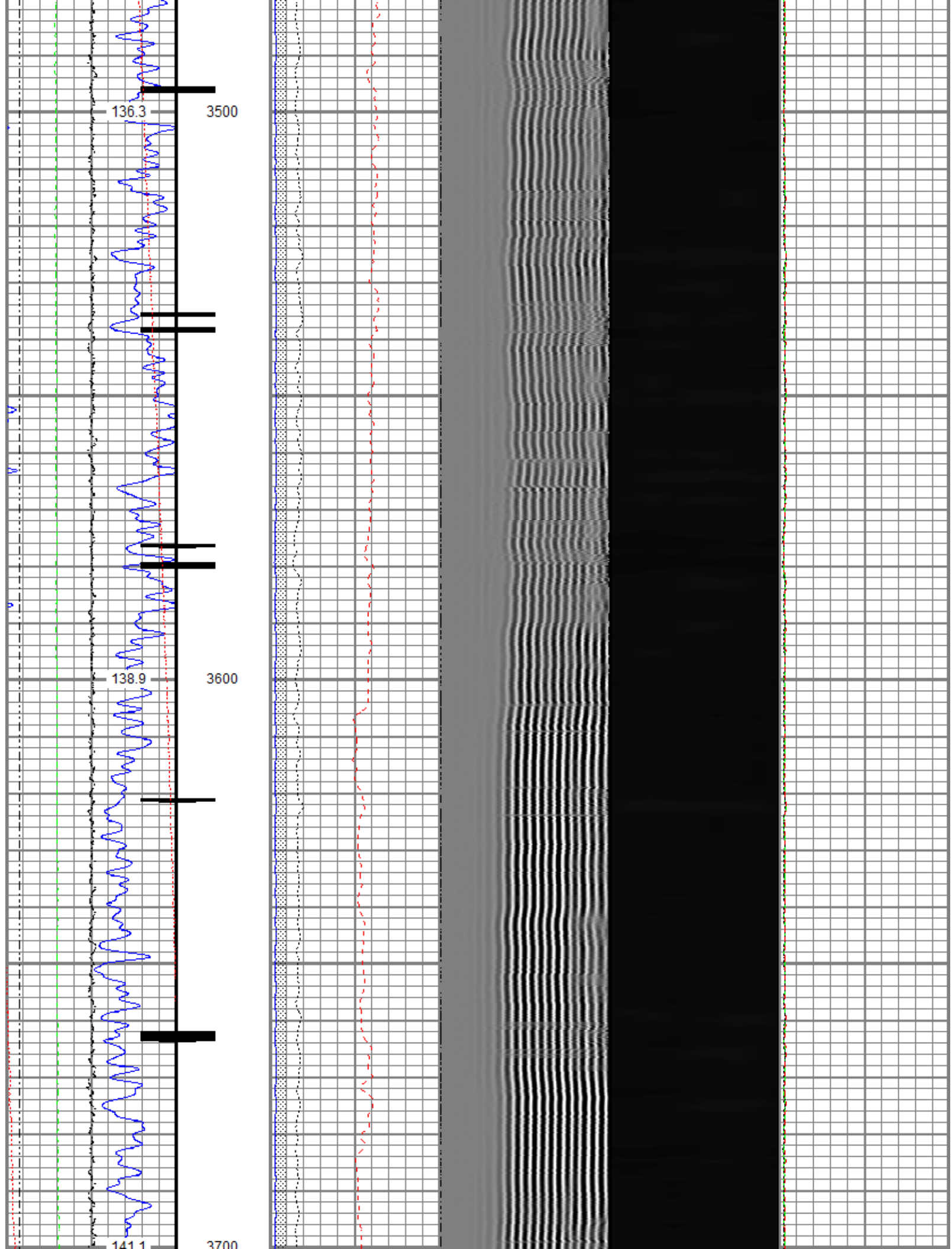


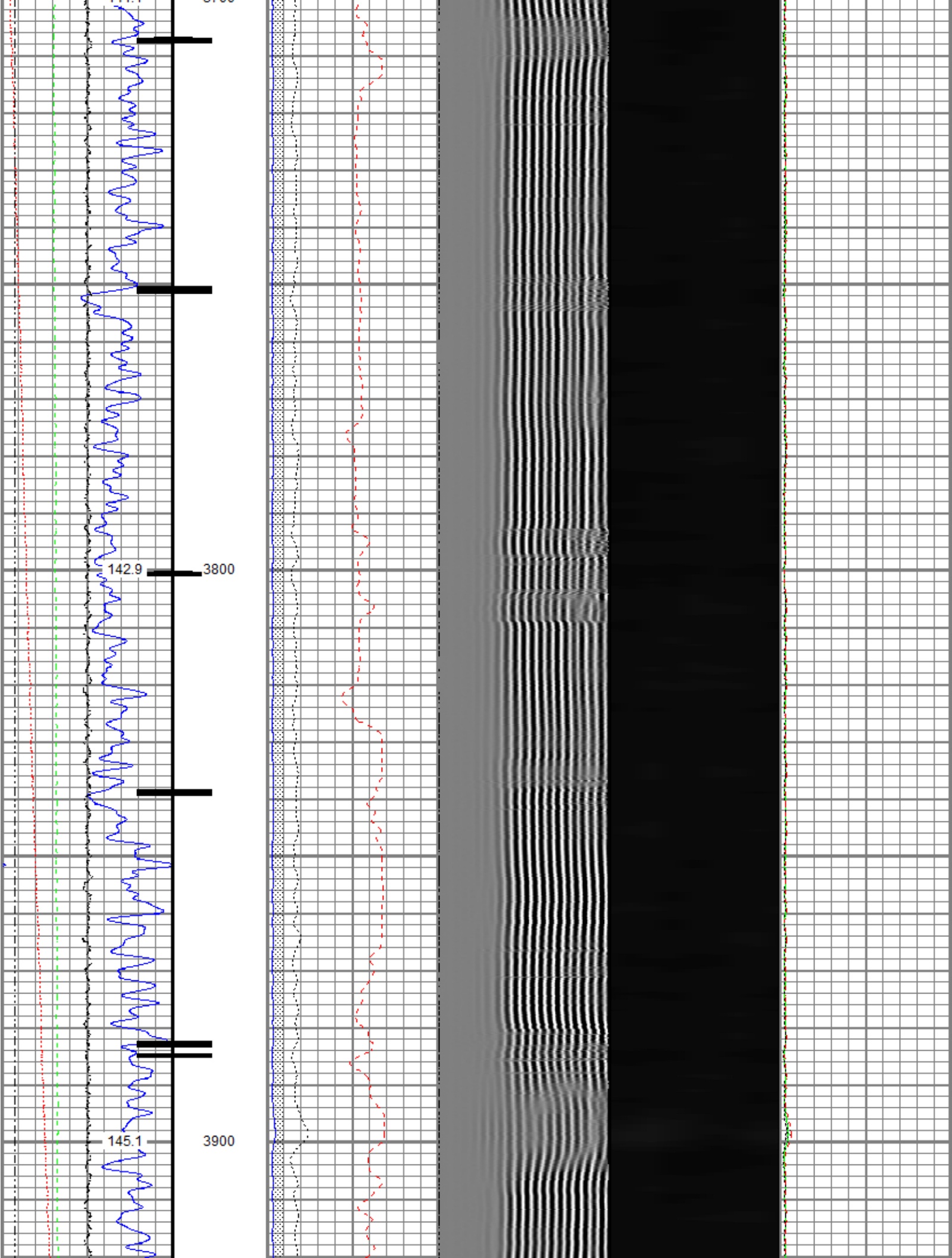


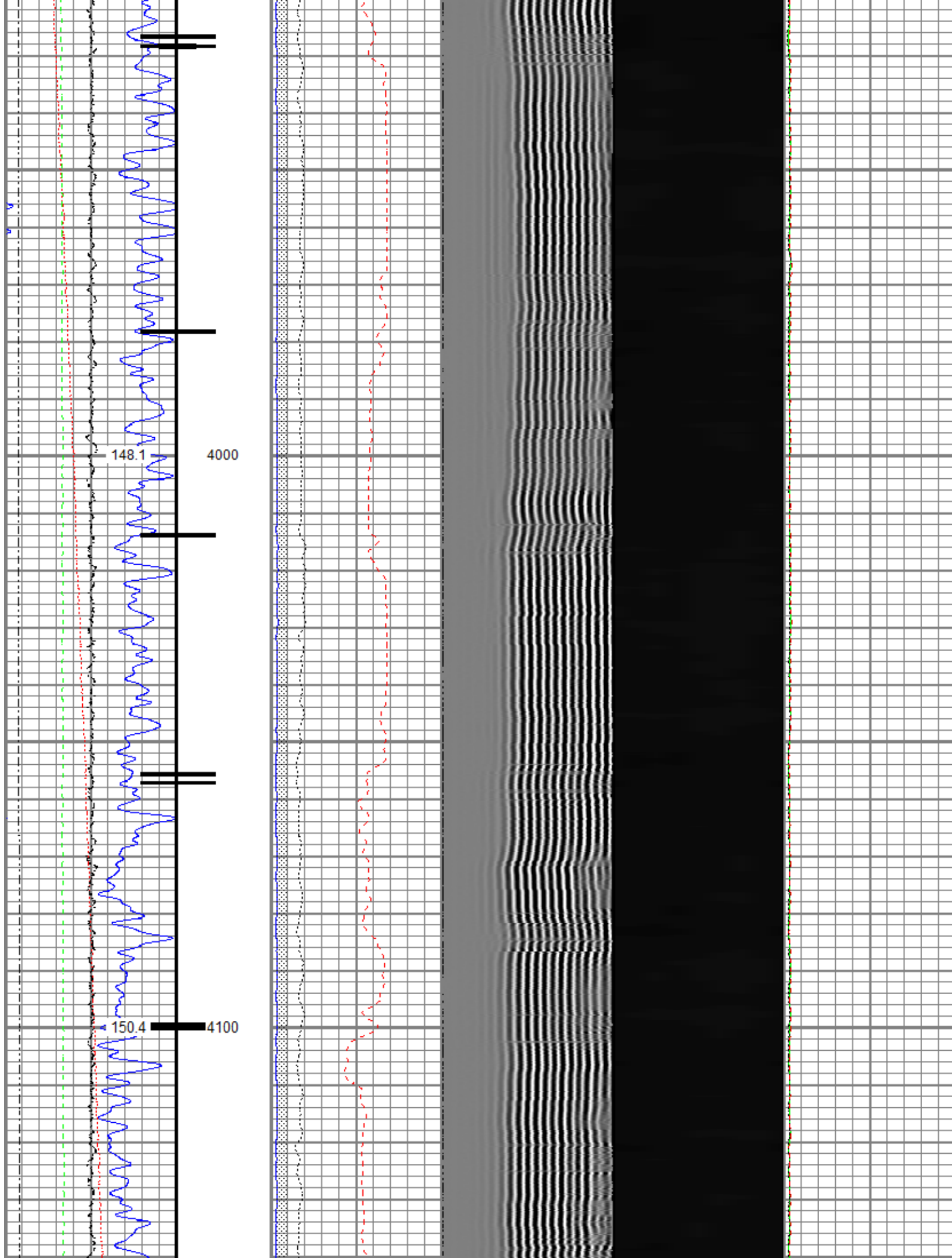




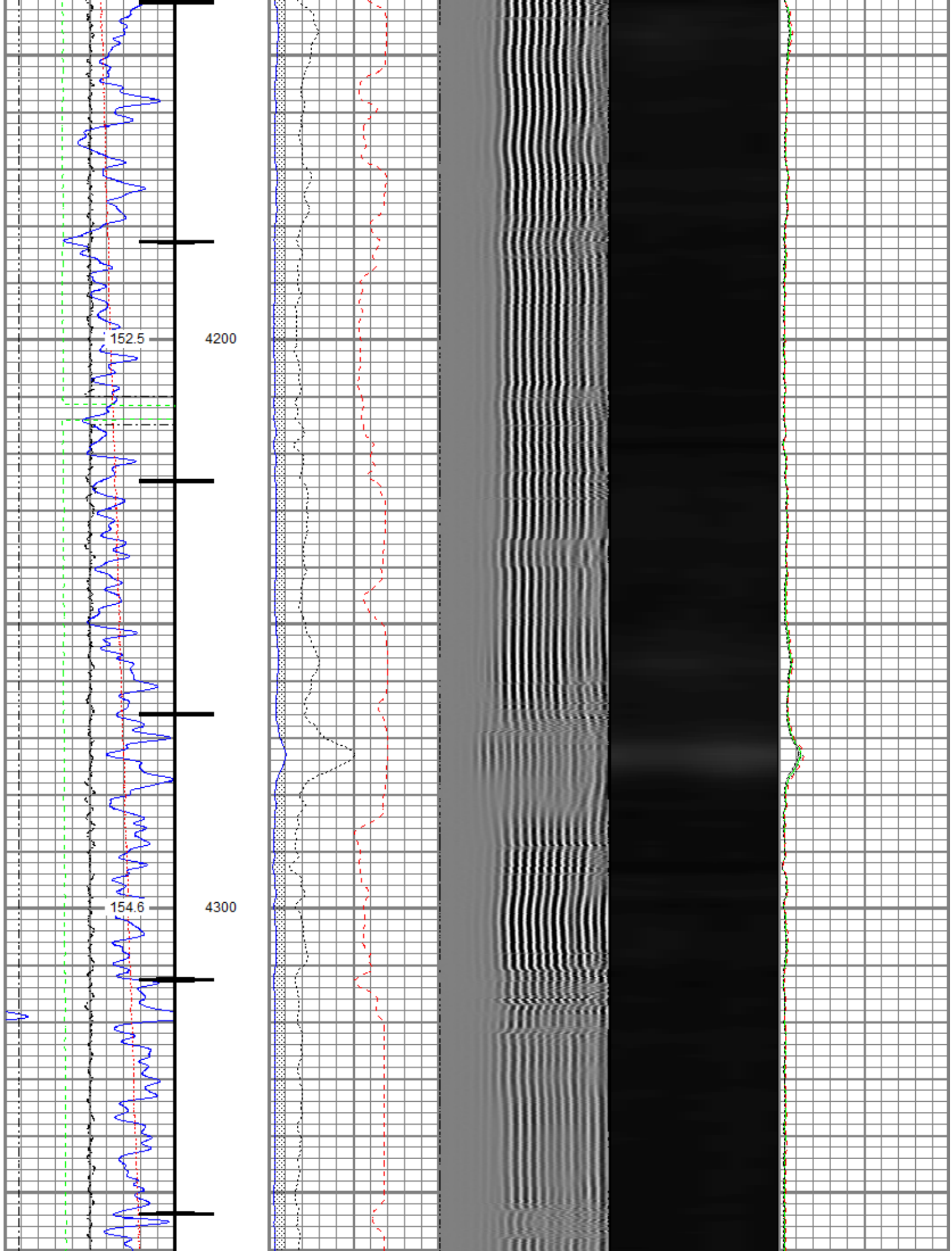


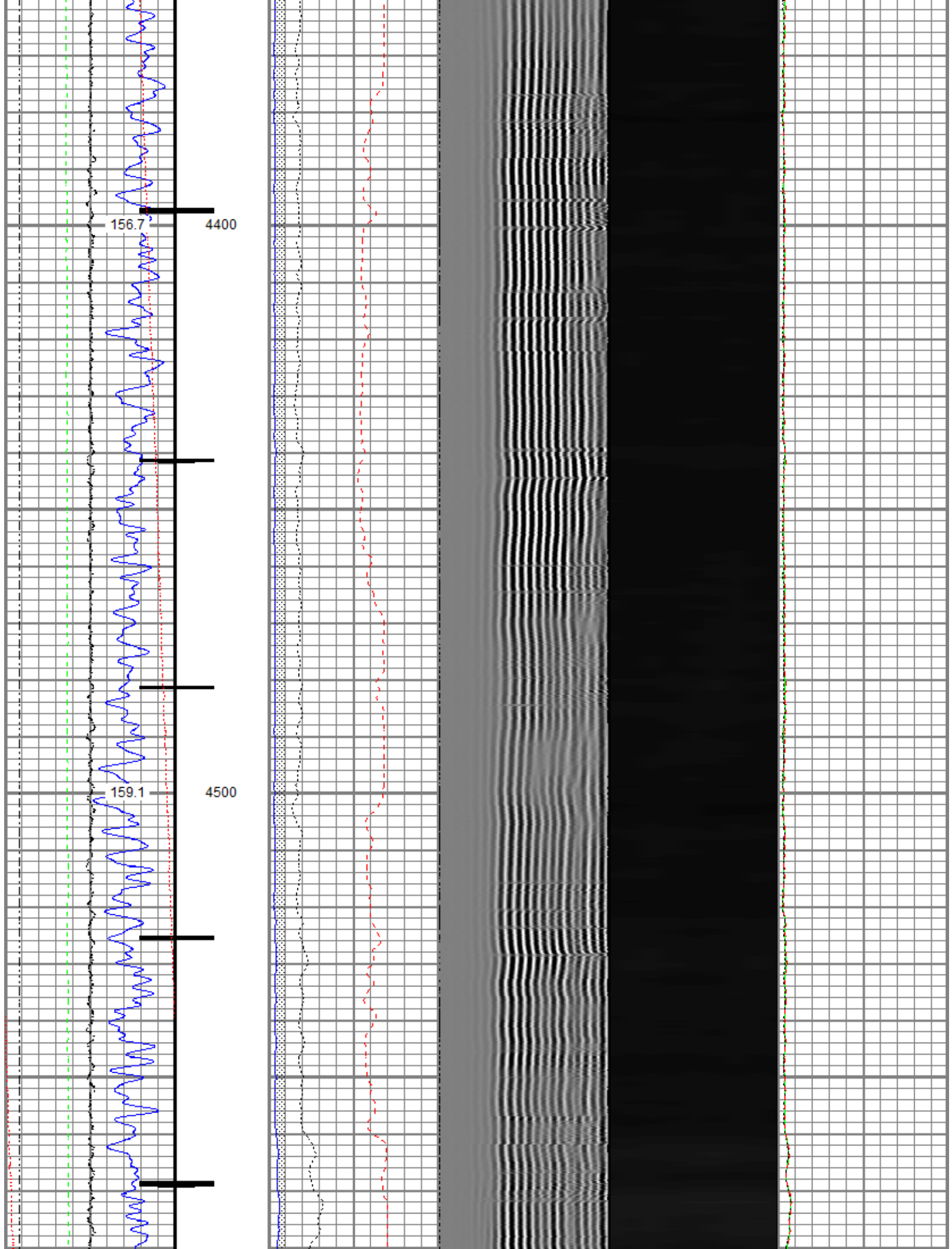


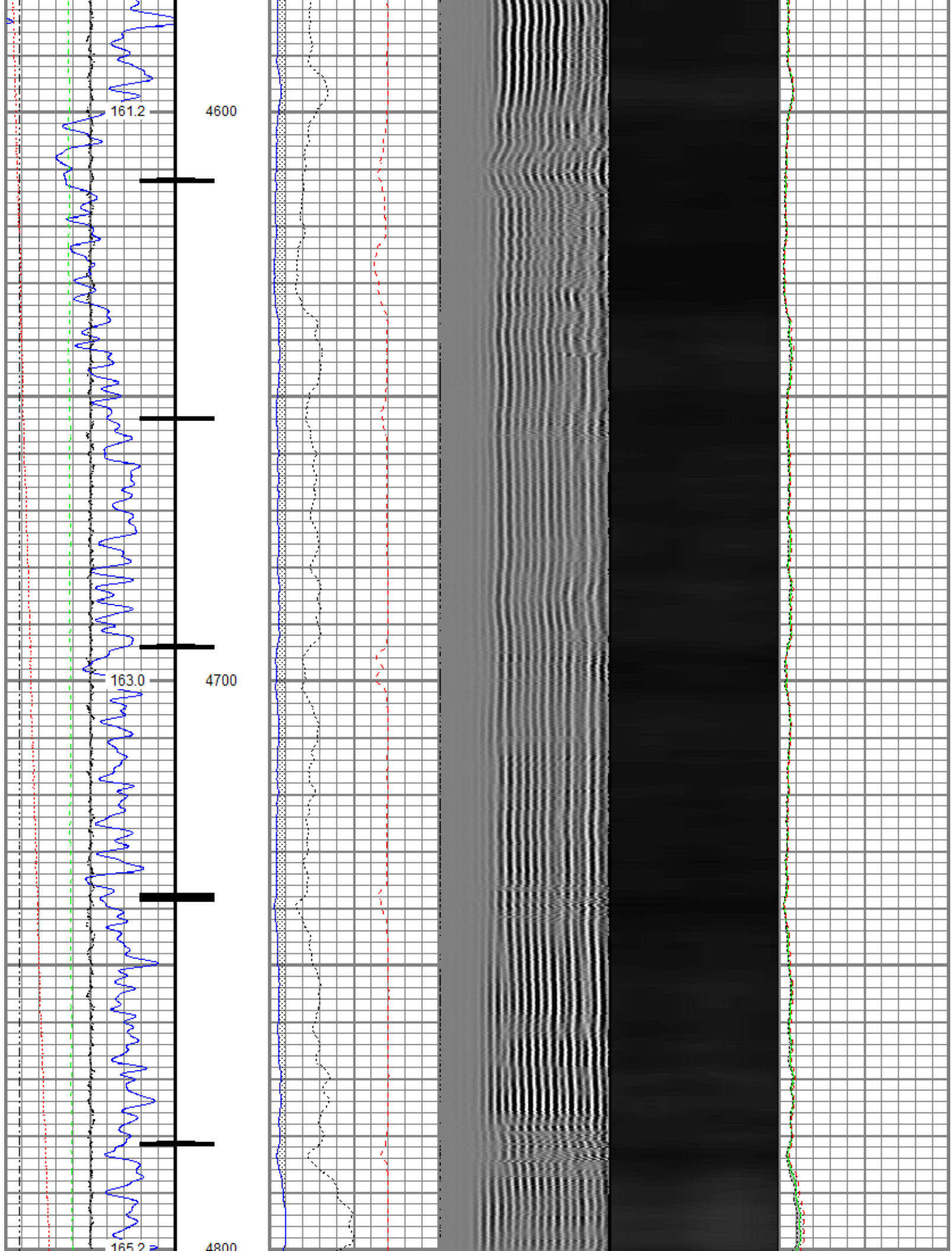


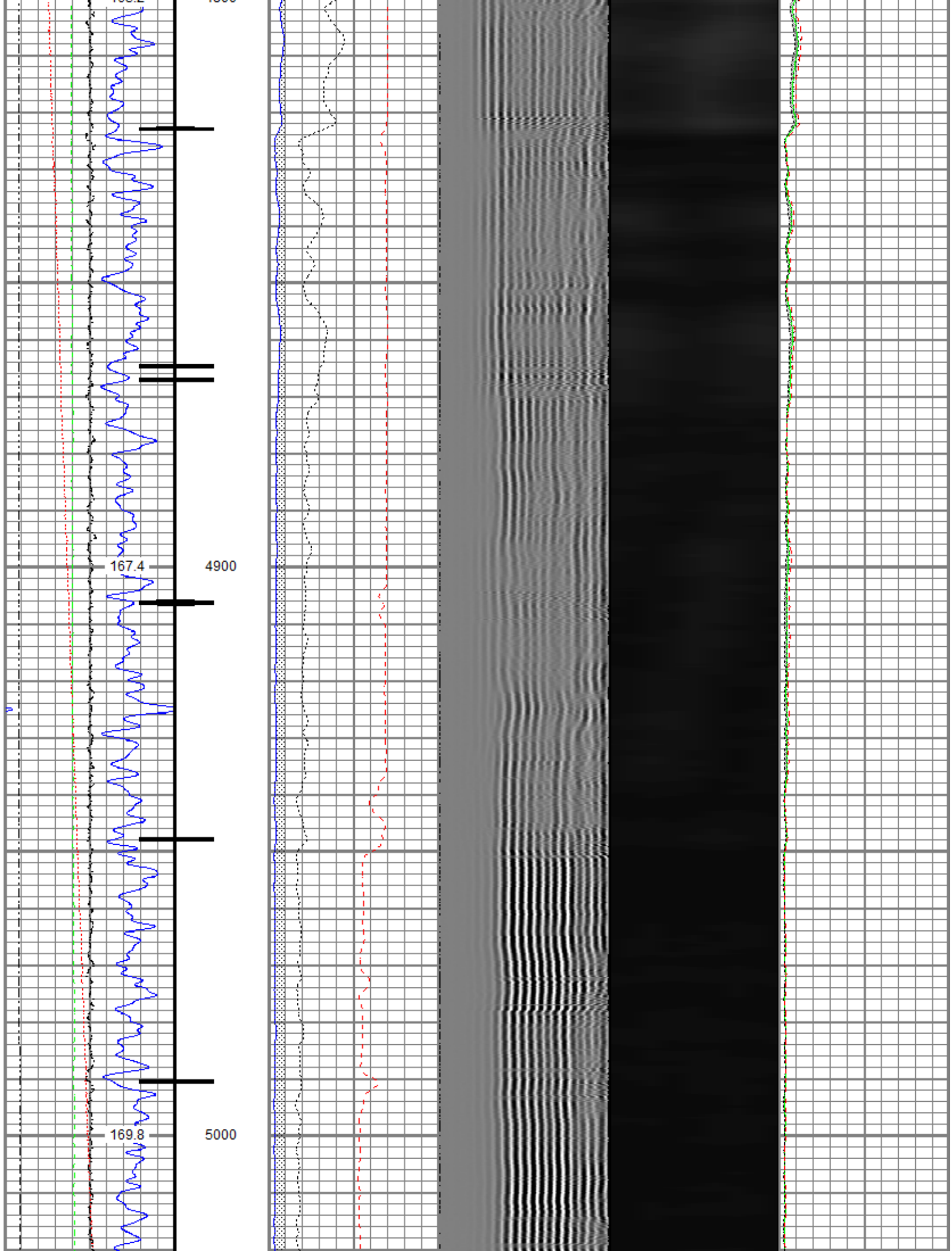




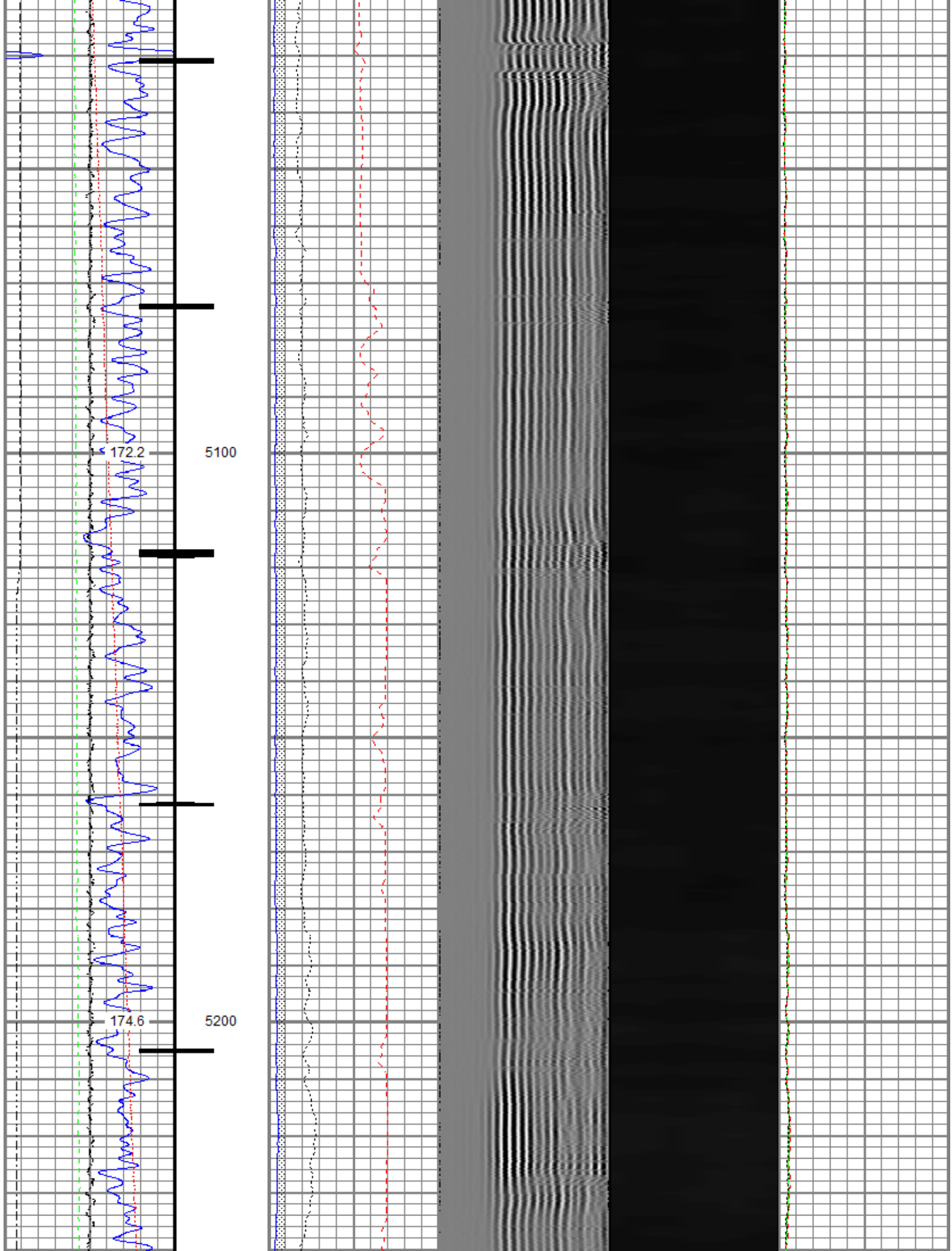


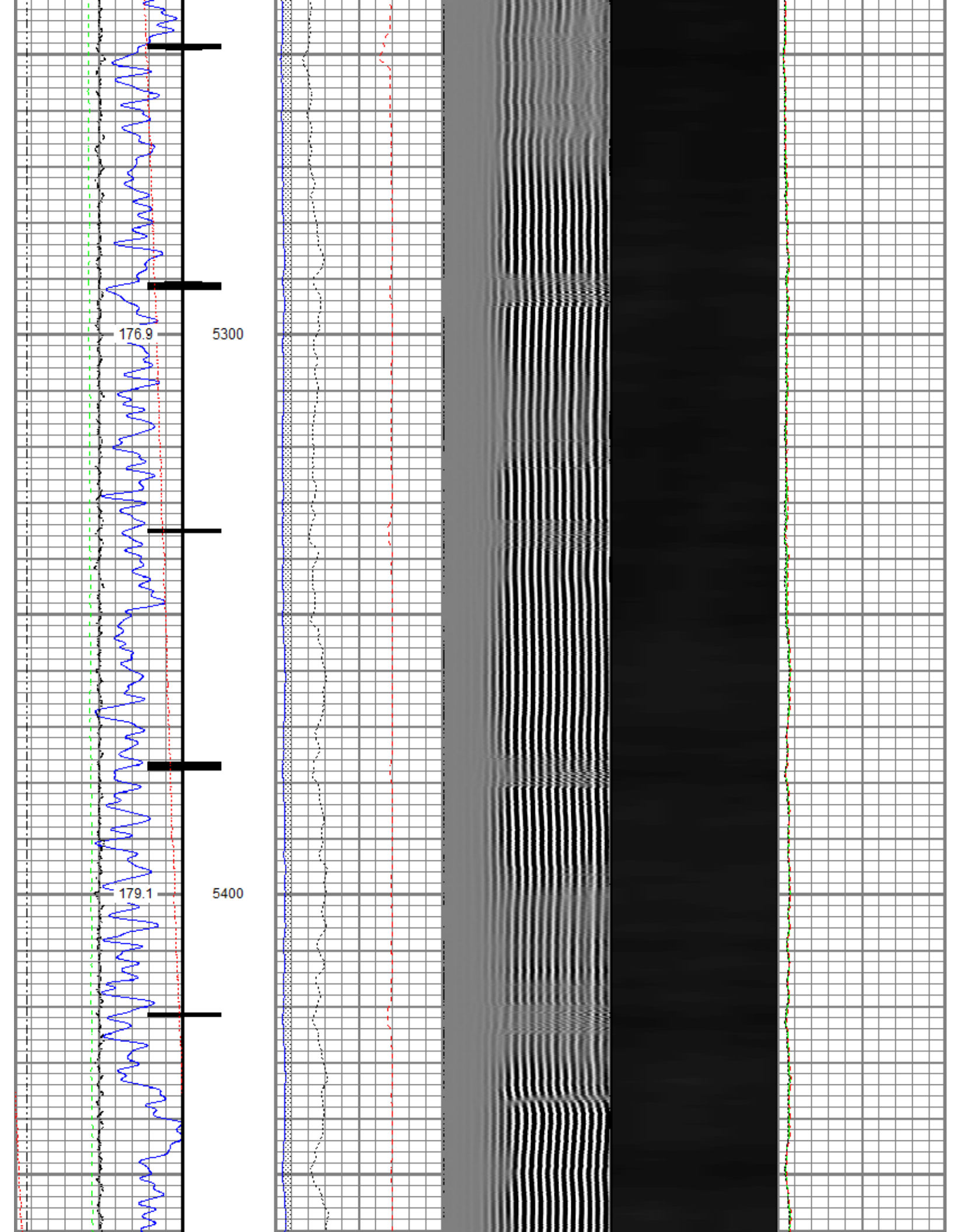


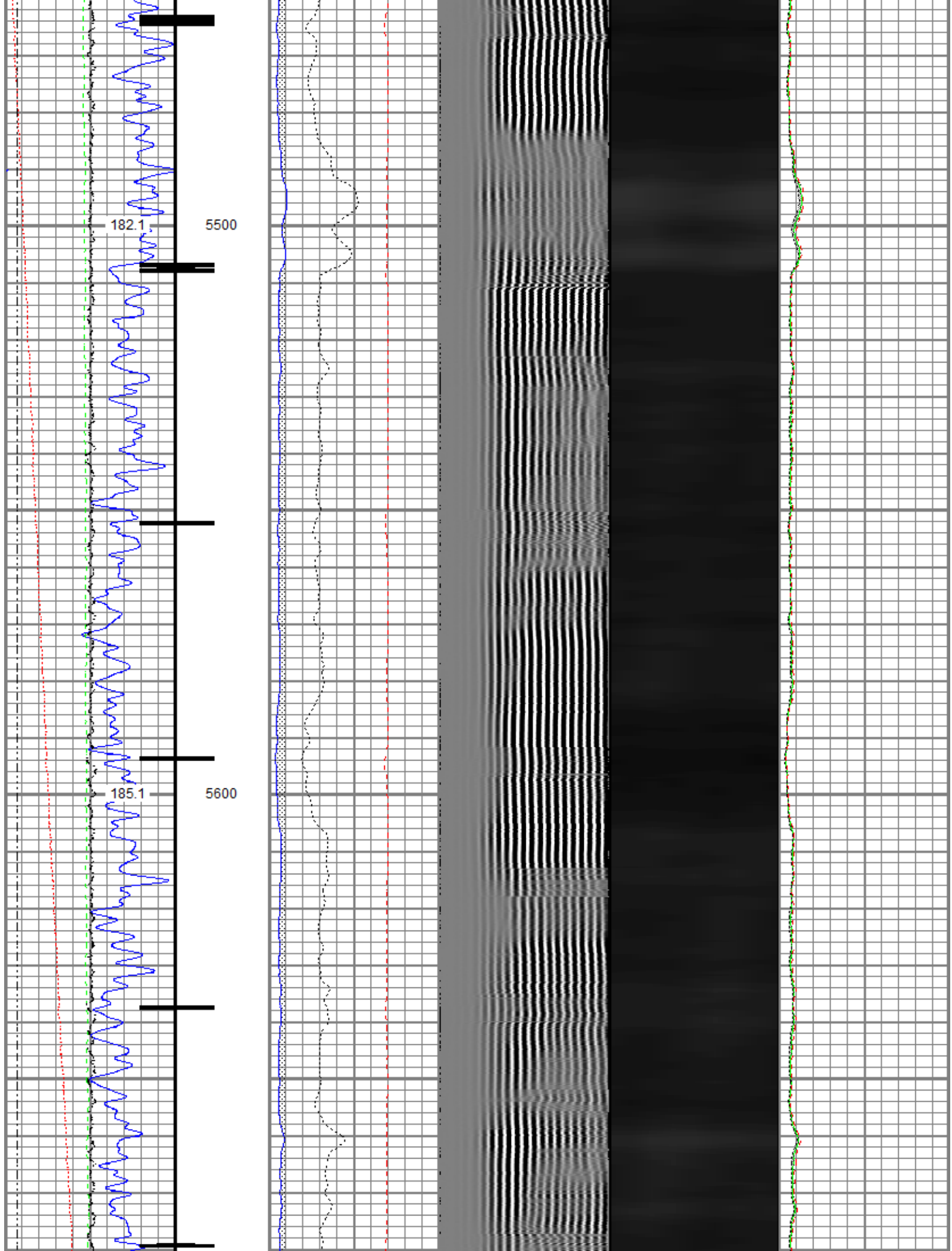


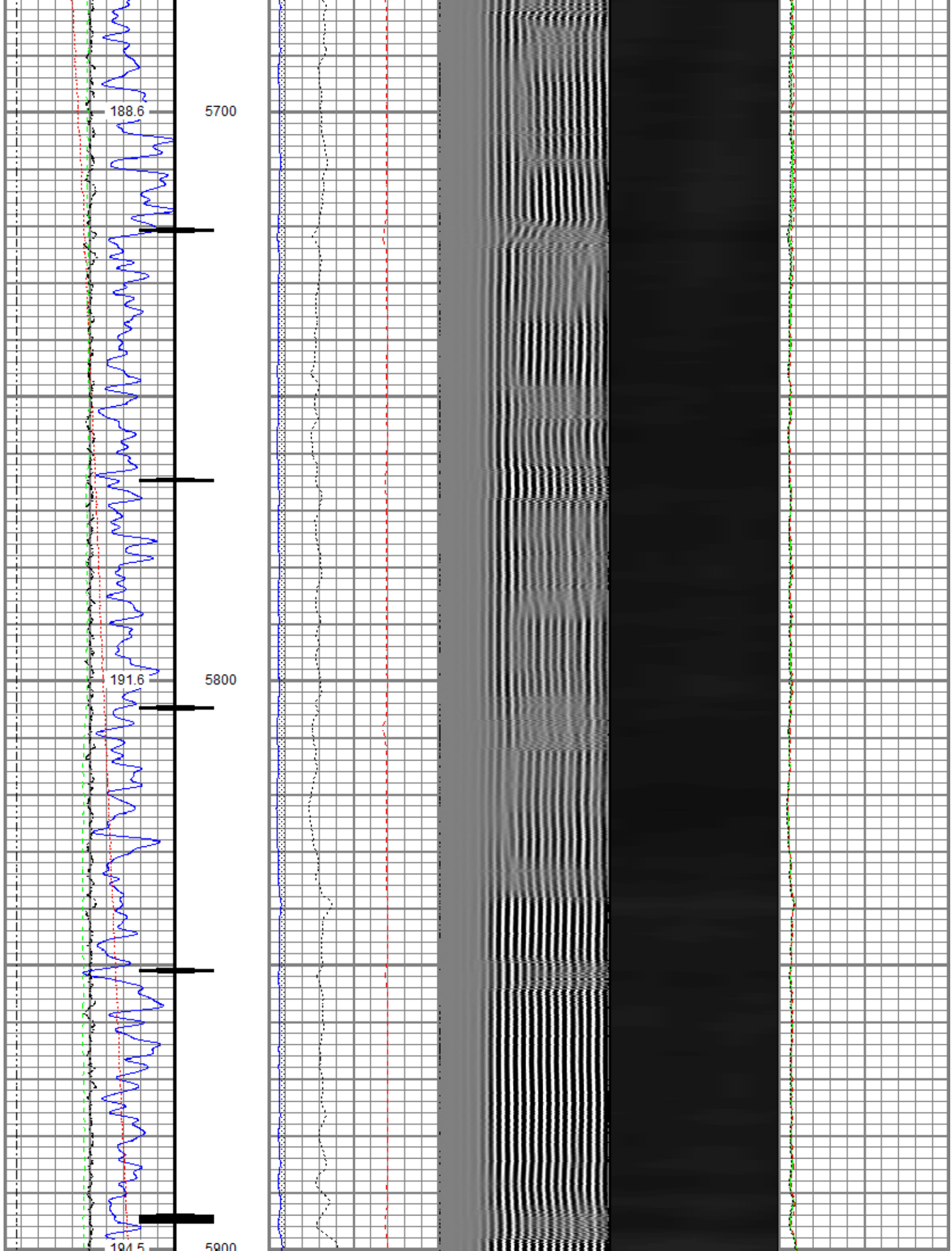




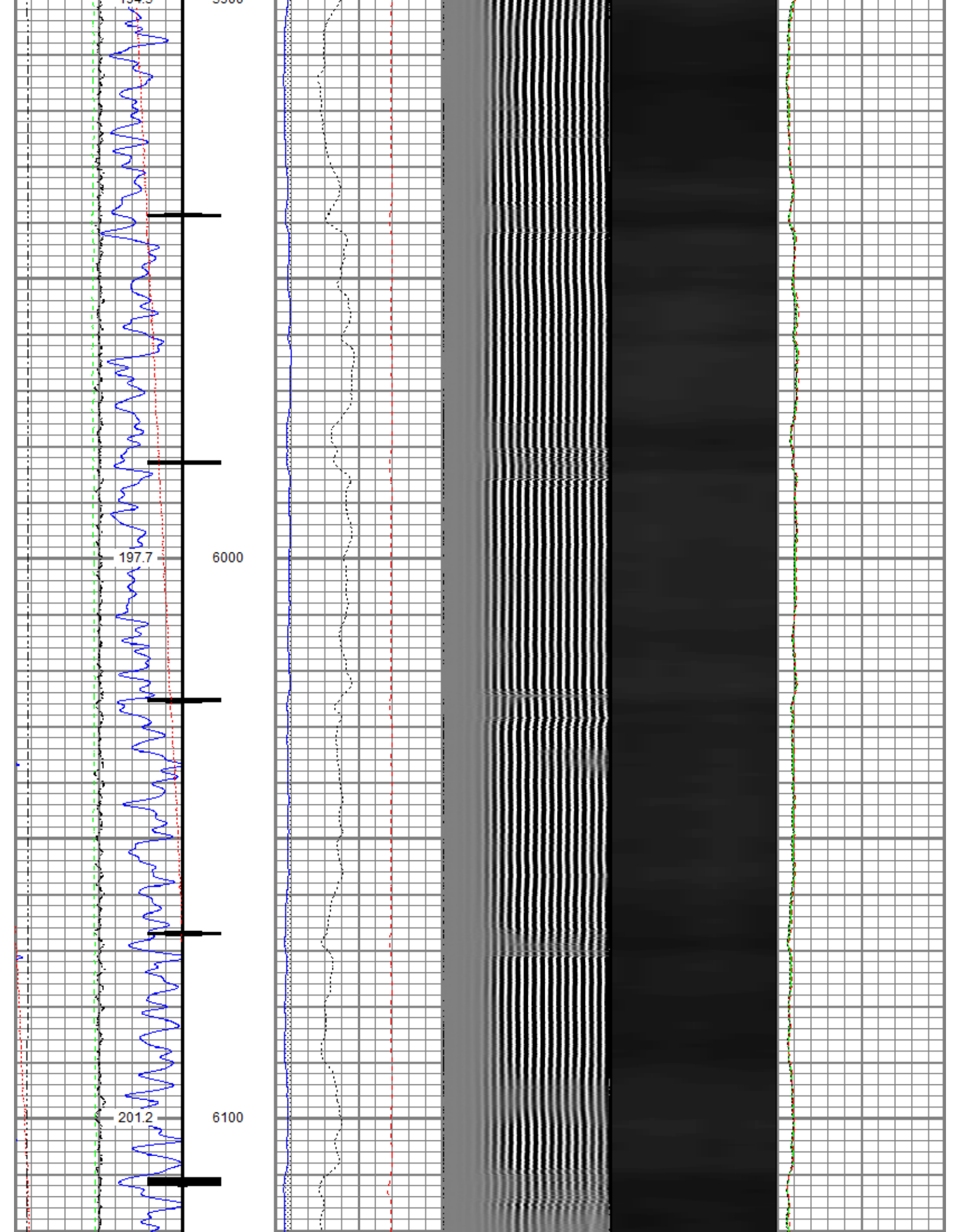


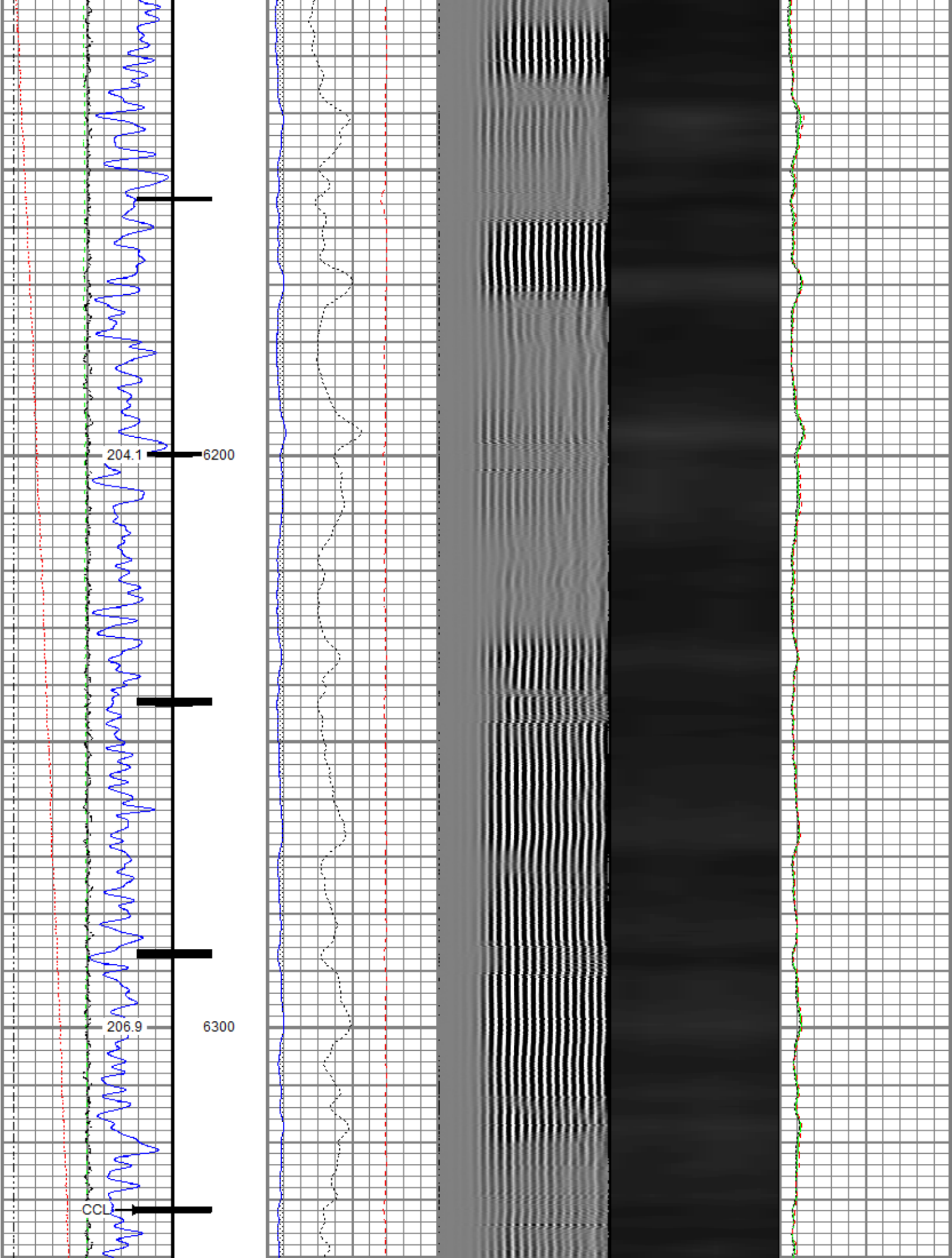


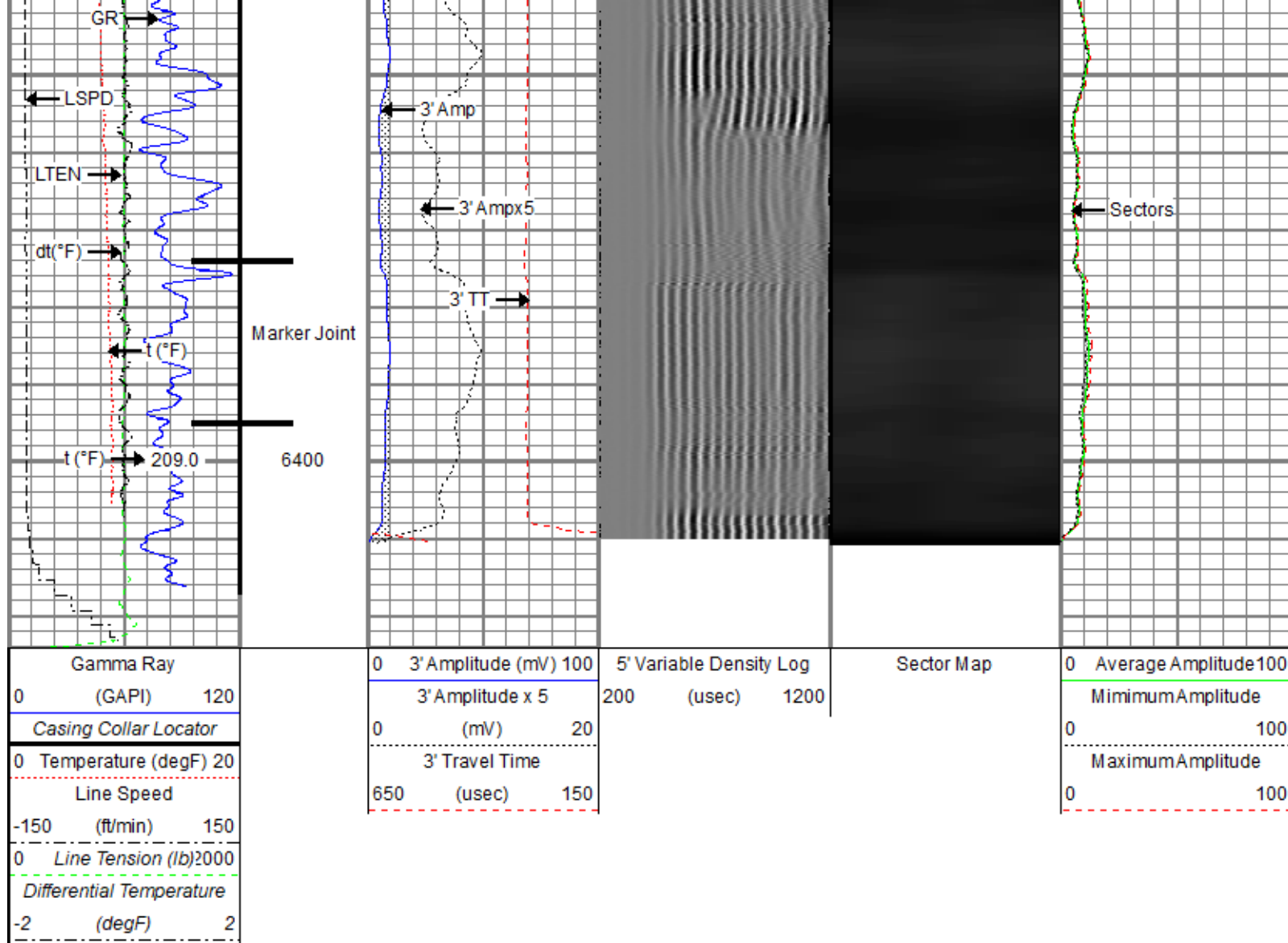








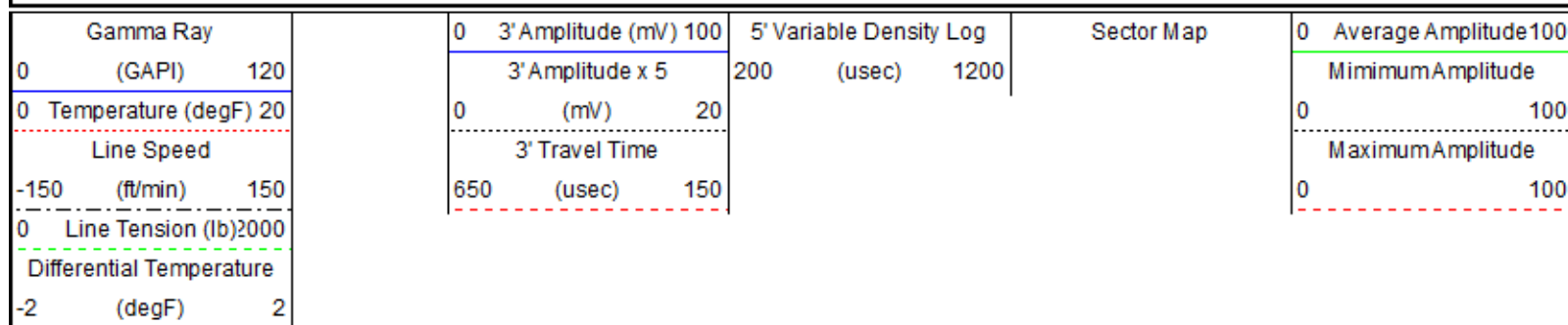




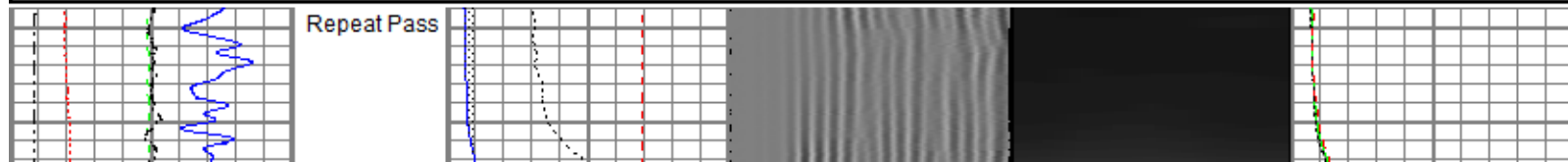
## Repeat Pass

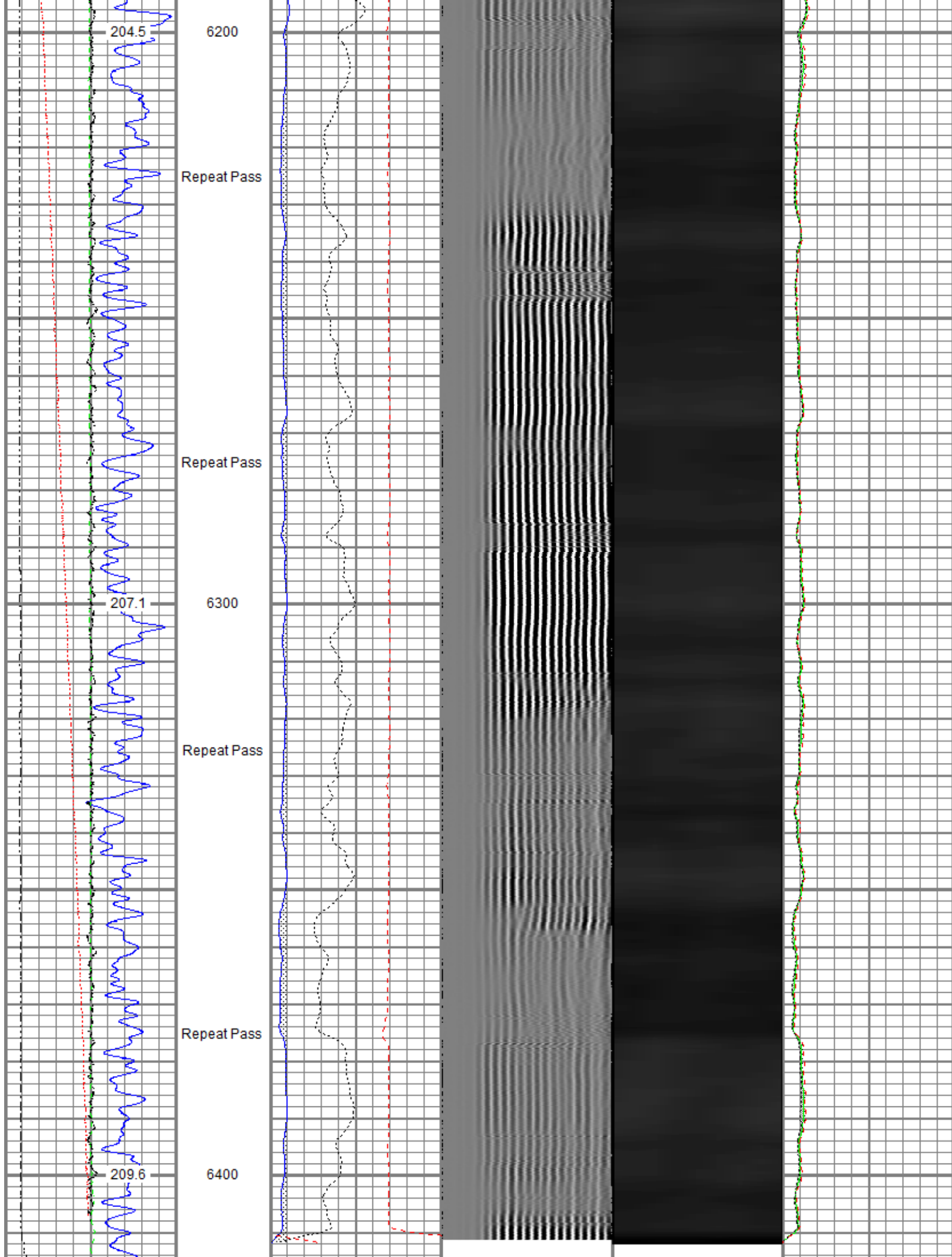
Recorded With 2800 PSI Surface Induced Pressure

Database File: anadarko\newby state 37n-4hz\0512345087\_anadarko\_newby state 37n-4hz\_rbl\_03-15-18.db  
 Dataset Pathname: RBL/pass2.2  
 Presentation Format: ros\_radri  
 Dataset Creation: Thu Mar 15 13:36:27 2018  
 Charted by: Depth in Feet scaled 1:240

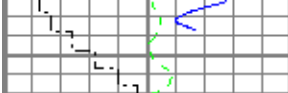


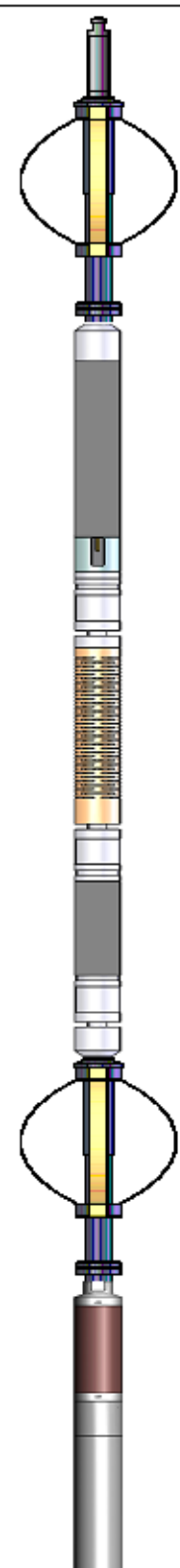
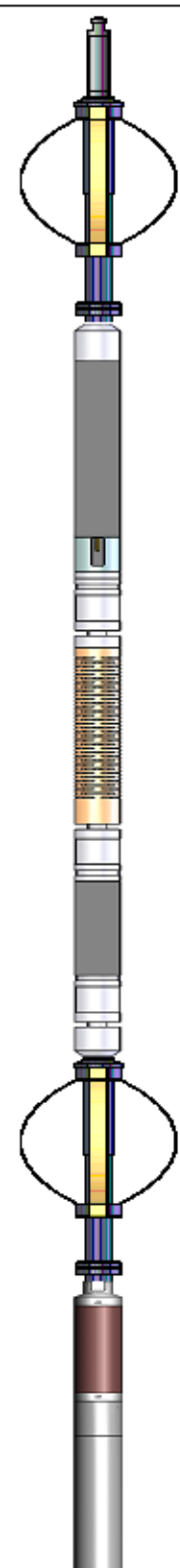
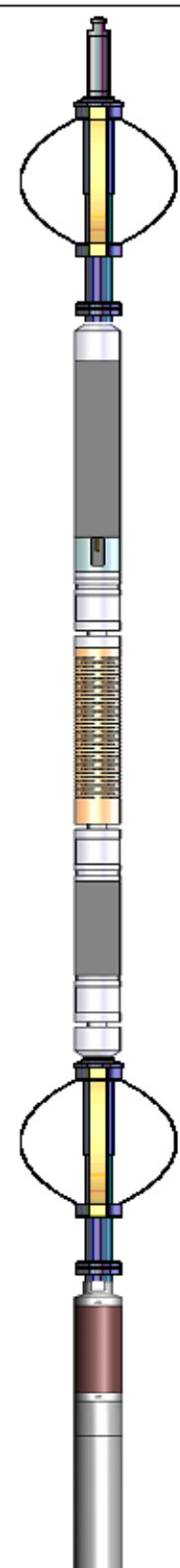
Repeat Pass







		Repeat Pass							
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)
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			
WVFS8	14.81		Probe Radii-2750 RBT (FW1308-091)	9.39	2.75	105.00
WVFS7	14.81		Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
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 CCL\$1	6.80		Probe CENT-2750	2.88	2.75	20.00
	6.80		Probe 2-3/4" Electric Inline Bowspring Centralizer			
GR	5.46		Probe GR-CCL-2750 6PB (FW1304-132)	4.80	2.75	55.00
			Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT			



Probe CENT-2750  
Probe 2-3/4" Electric Inline Bowspring Centralizer

2.88

2.75

20.00

Dataset: 0512345087\_Anadarko\_Newby State 37N-4HZ\_RBL\_03-15-18.db: field/well/RBL/pass6.1  
Total length: 23.86 ft  
Total weight: 223.60 lb  
O.D.: 2.75 in

#### Calibration Report

Database File C:\ProgramData\Warrior\Data\Anadarko\Newby State 37N-4HZ\0512345087\_Anadarko\_Newby State 37N-4HZ\_RBL\_03-15-18.d  
Dataset Pathname RBL/pass6.1  
Dataset Creation Thu Mar 15 08:52:56 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: 72.493 ft

#### Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.568	0.800	71.921	125.317	0.697
CAL	0.004	0.604				
5'	-0.001	0.509	0.800	71.921	139.615	0.890
SUM						
S1	0.001	0.548	0.000	100.000	182.865	-0.141
S2	0.001	0.562	0.000	100.000	178.174	-0.133
S3	0.001	0.585	0.000	100.000	171.191	-0.149
S4	0.001	0.610	0.000	100.000	164.068	-0.143
S5	0.001	0.627	0.000	100.000	159.847	-0.159
S6	0.001	0.593	0.000	100.000	168.936	-0.168
S7	0.001	0.554	0.000	100.000	180.790	-0.167
S8	0.001	0.544	0.000	100.000	184.081	-0.156

#### Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.604	1.000	0.000

Air Zero Calibration, performed Mon Mar 12 09:05:11 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: 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	Newby State 37N-4HZ
Field	Wattenberg
County	Weld
State	Colorado