

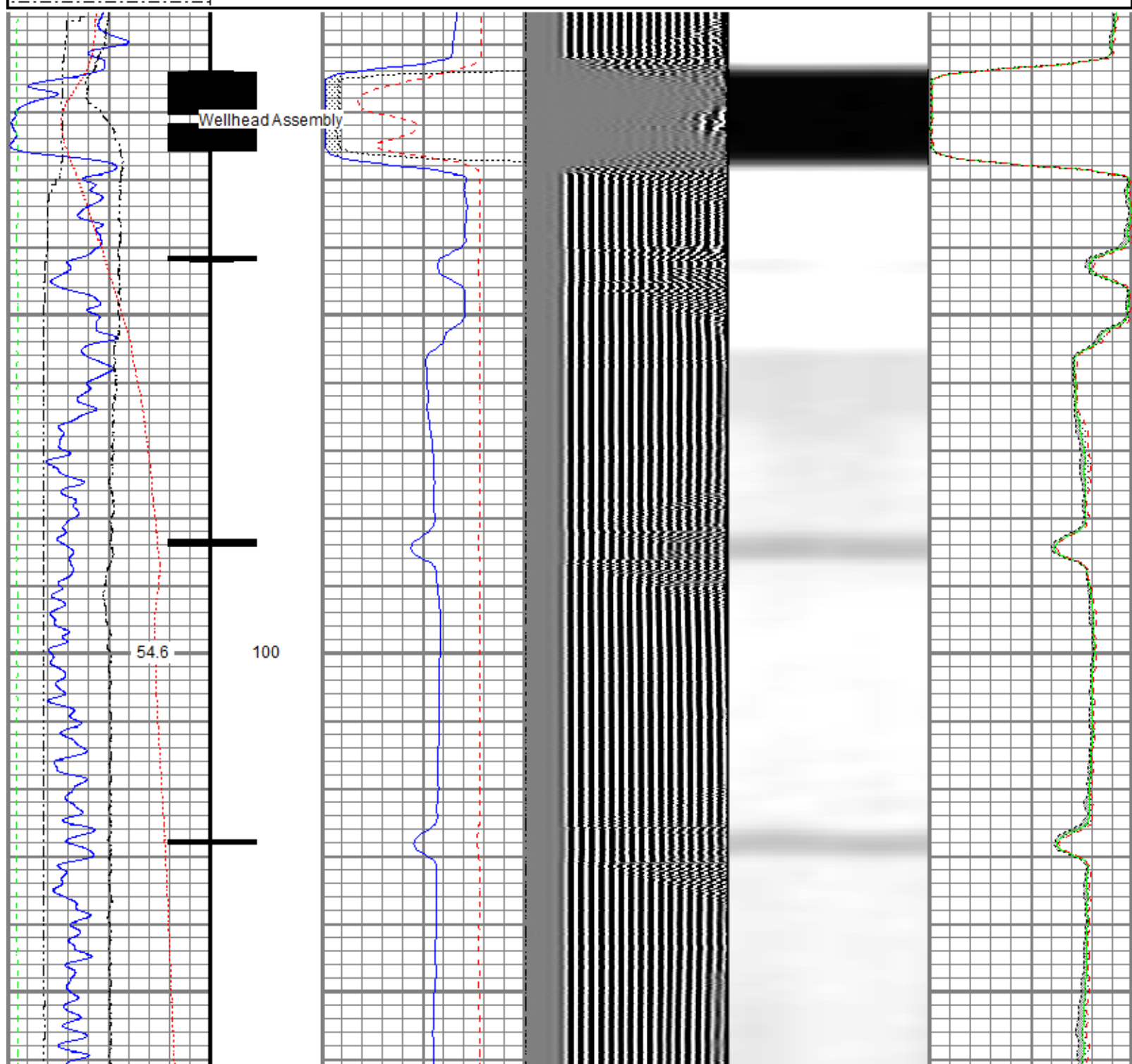


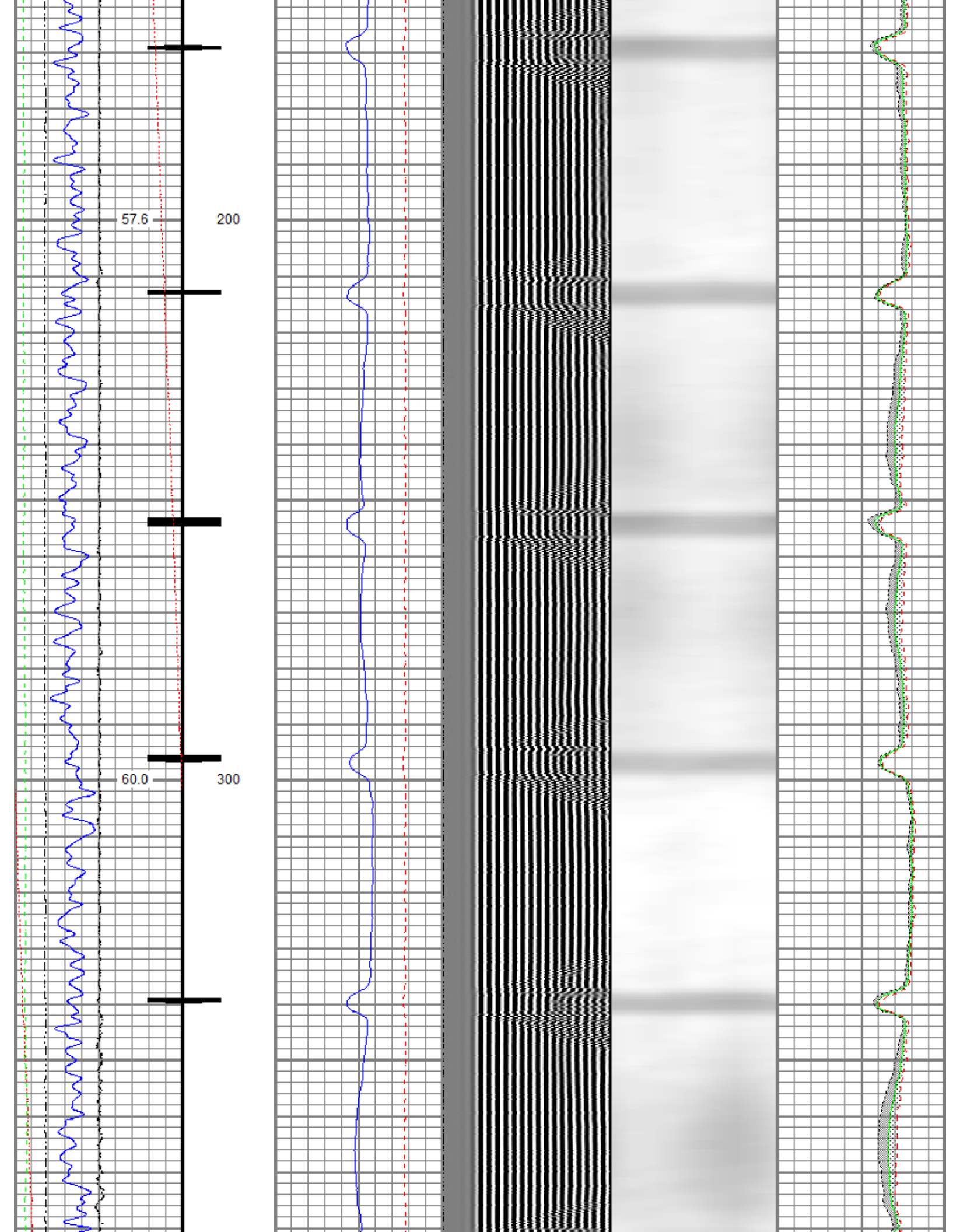
County Weld State Colorado

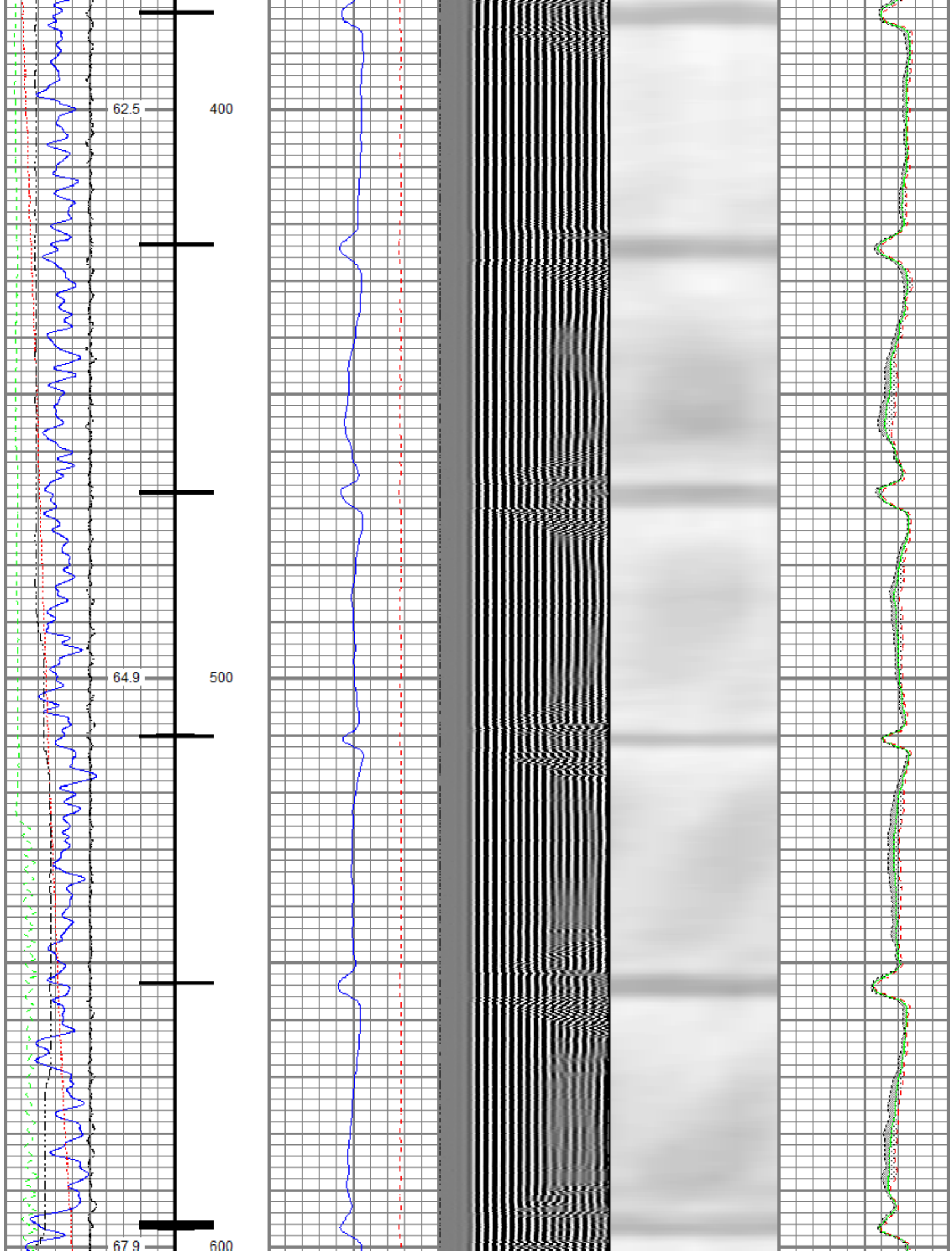
1111

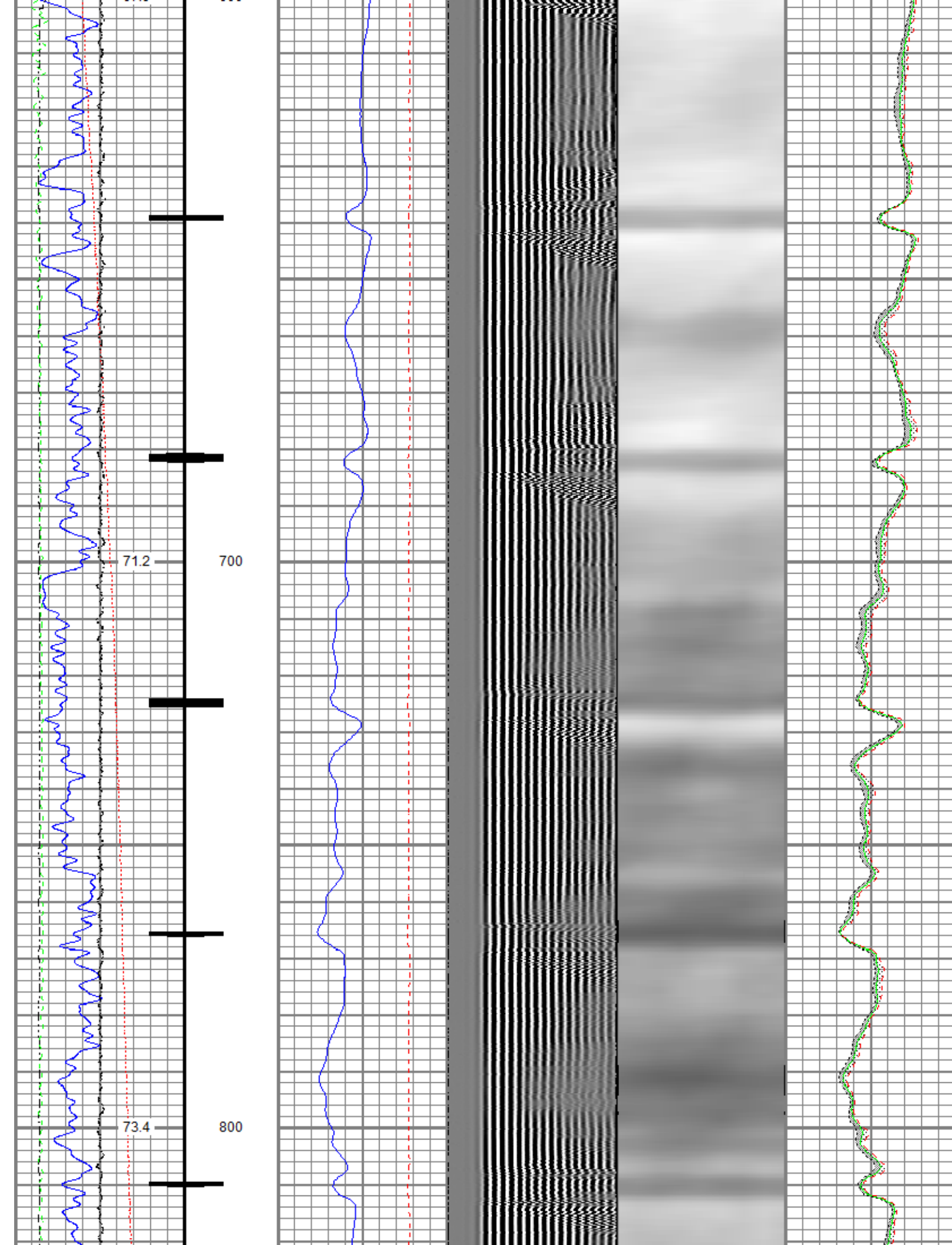
Database File	anadarko_borough 27n-17hz\0512345225_anadarko_borough 27n-17hz_rbl_01-20-18.db
Dataset Pathname	pass4.1
Presentation Format	ros_radri
Dataset Creation	Sat Jan 20 10:47:17 2018
Charted by	Depth in Feet scaled 1:240

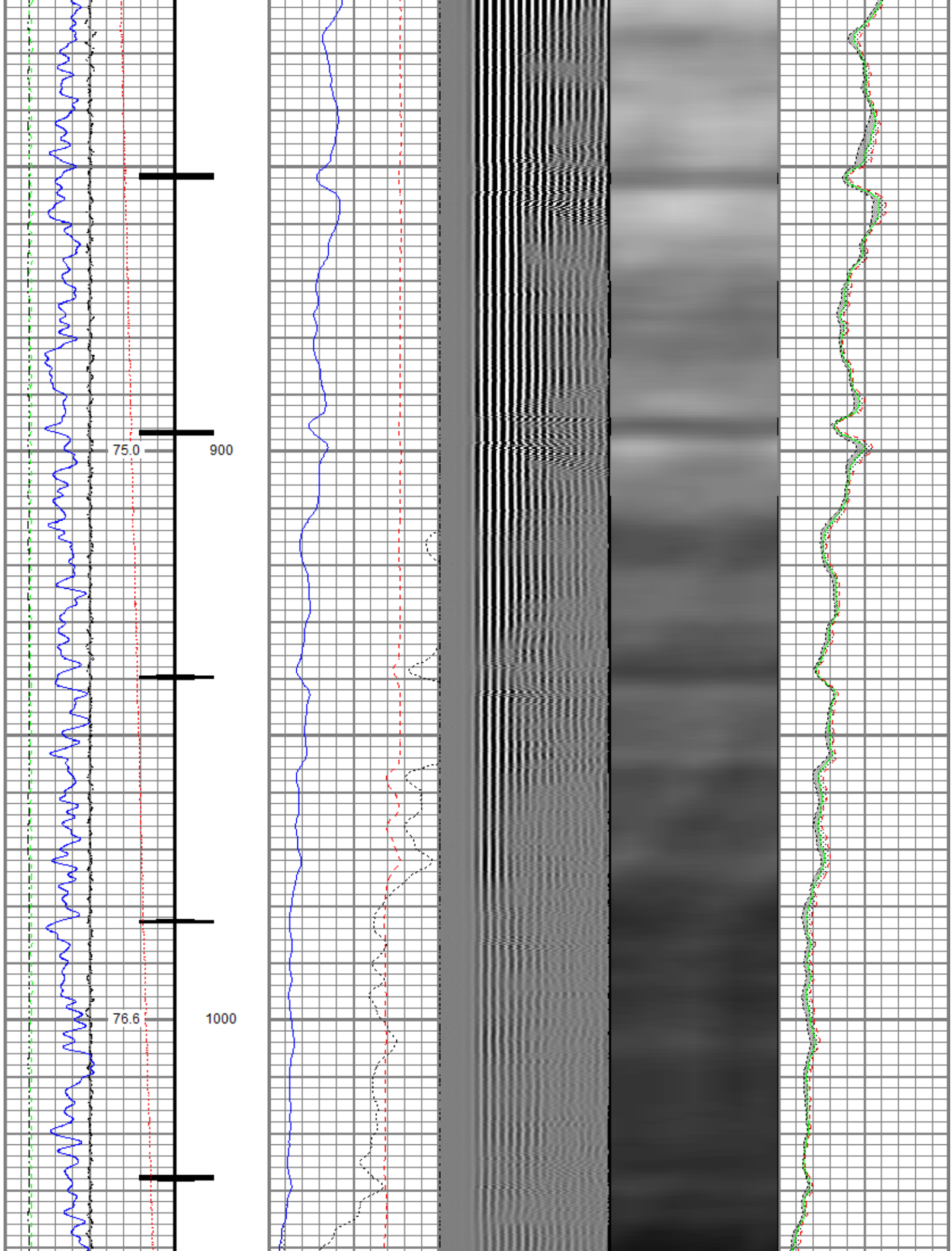
Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
(GAPI)	120	3' Amplitude x 5	200	1200			Minimum Amplitude	
Casing Collar Locator		0	(mV)	20			0	100
0 Temperature (degF)	20	3' Travel Time					Maximum Amplitude	
Line Speed		650	(usec)	150			0	100
-150 (ft/min)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

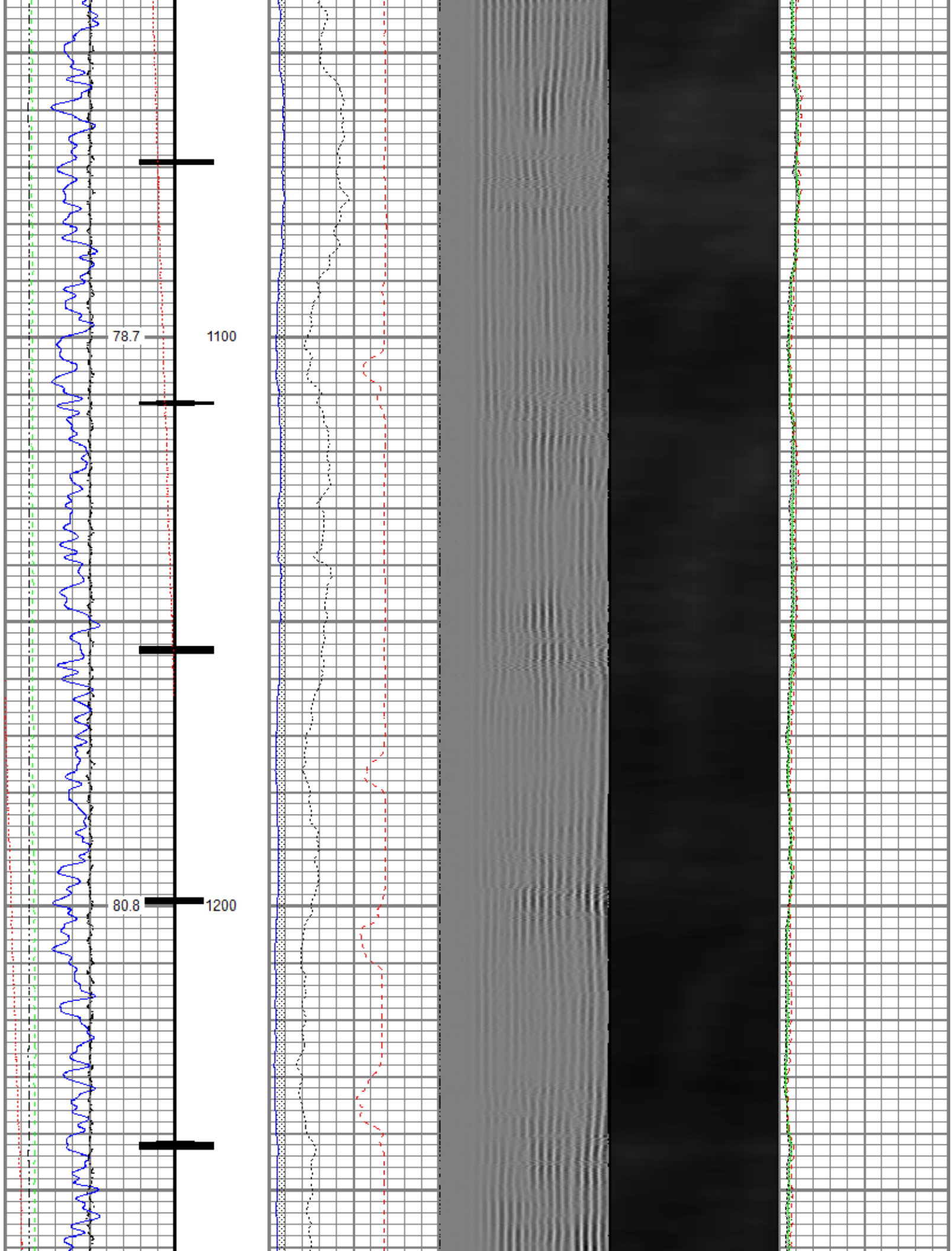


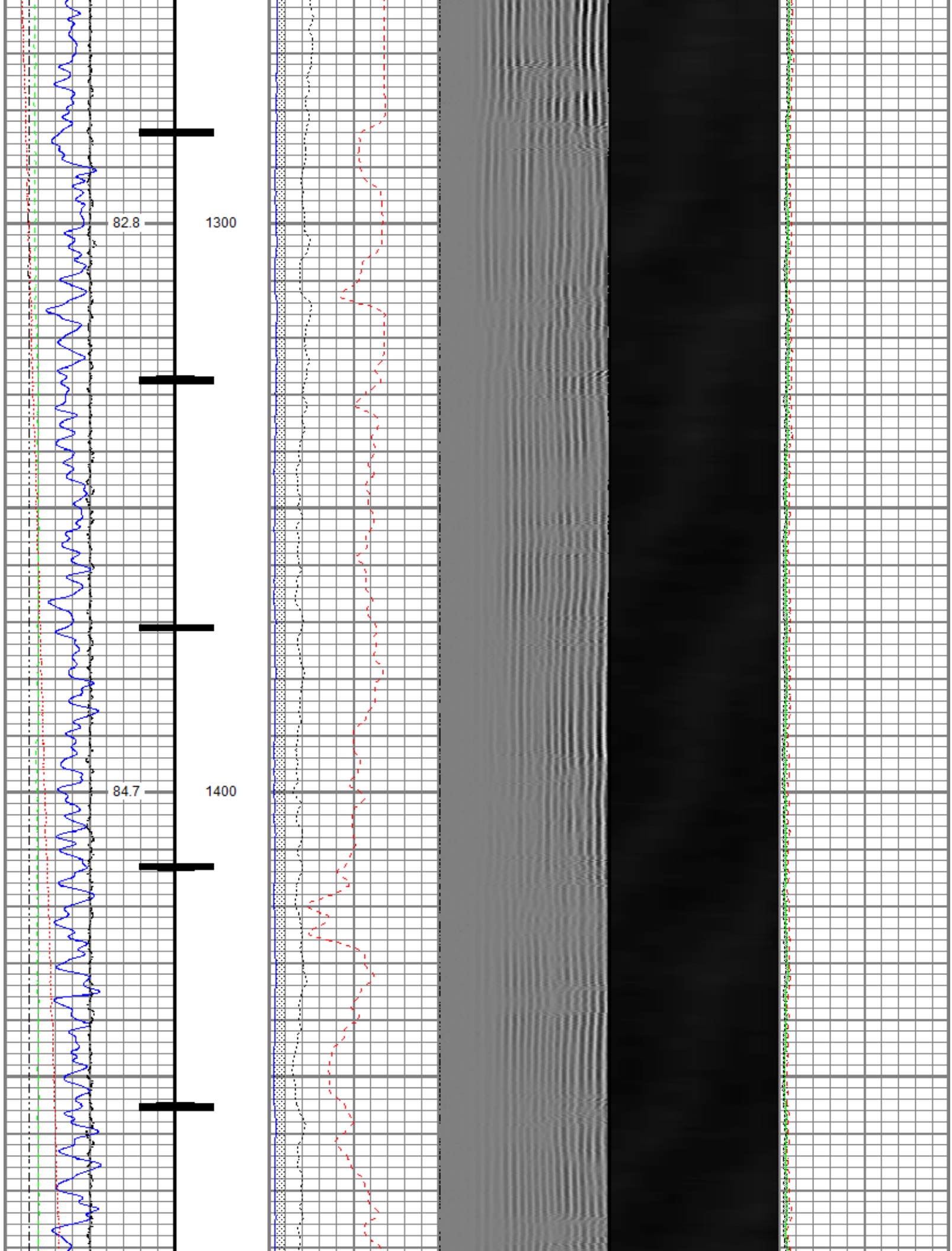


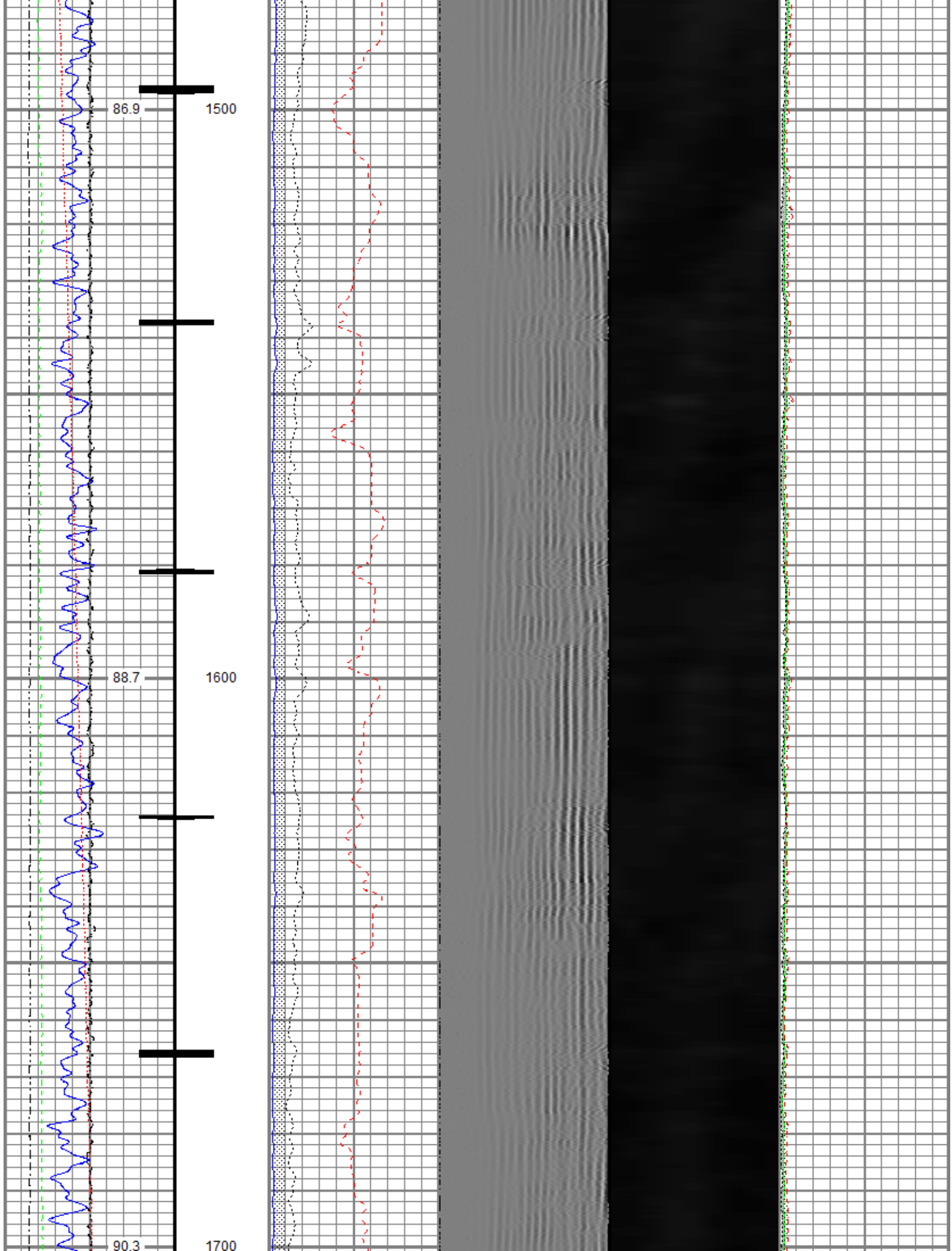


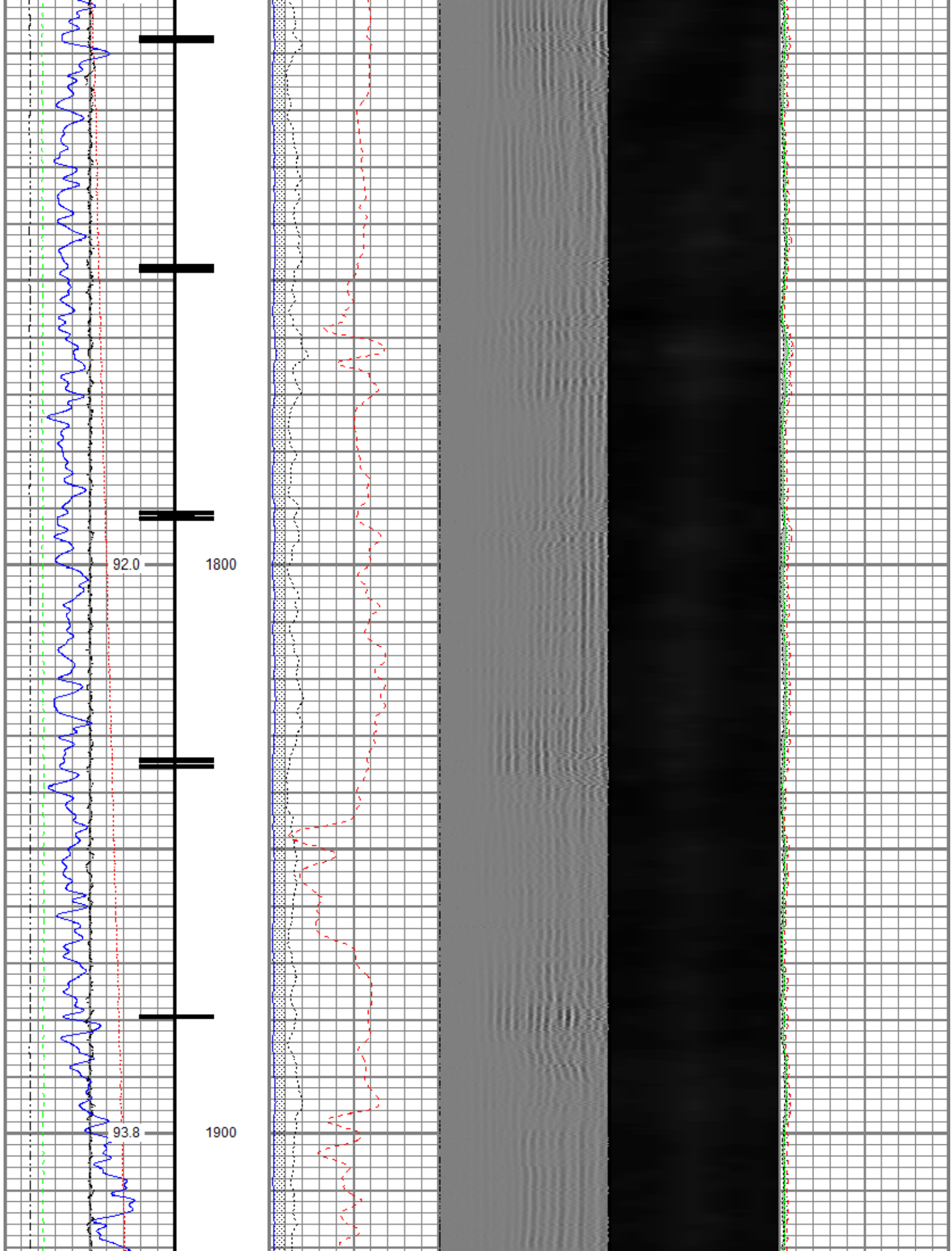


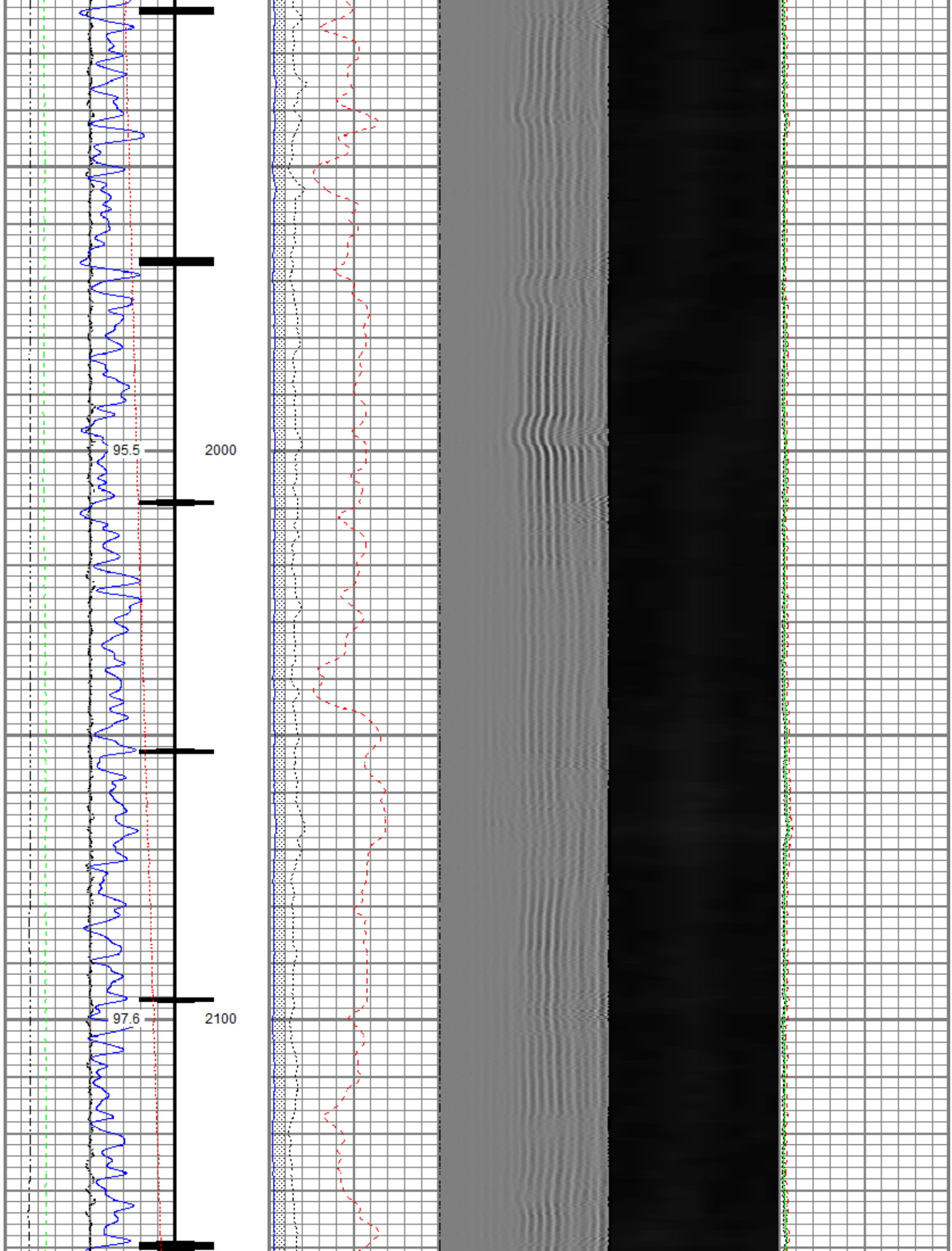


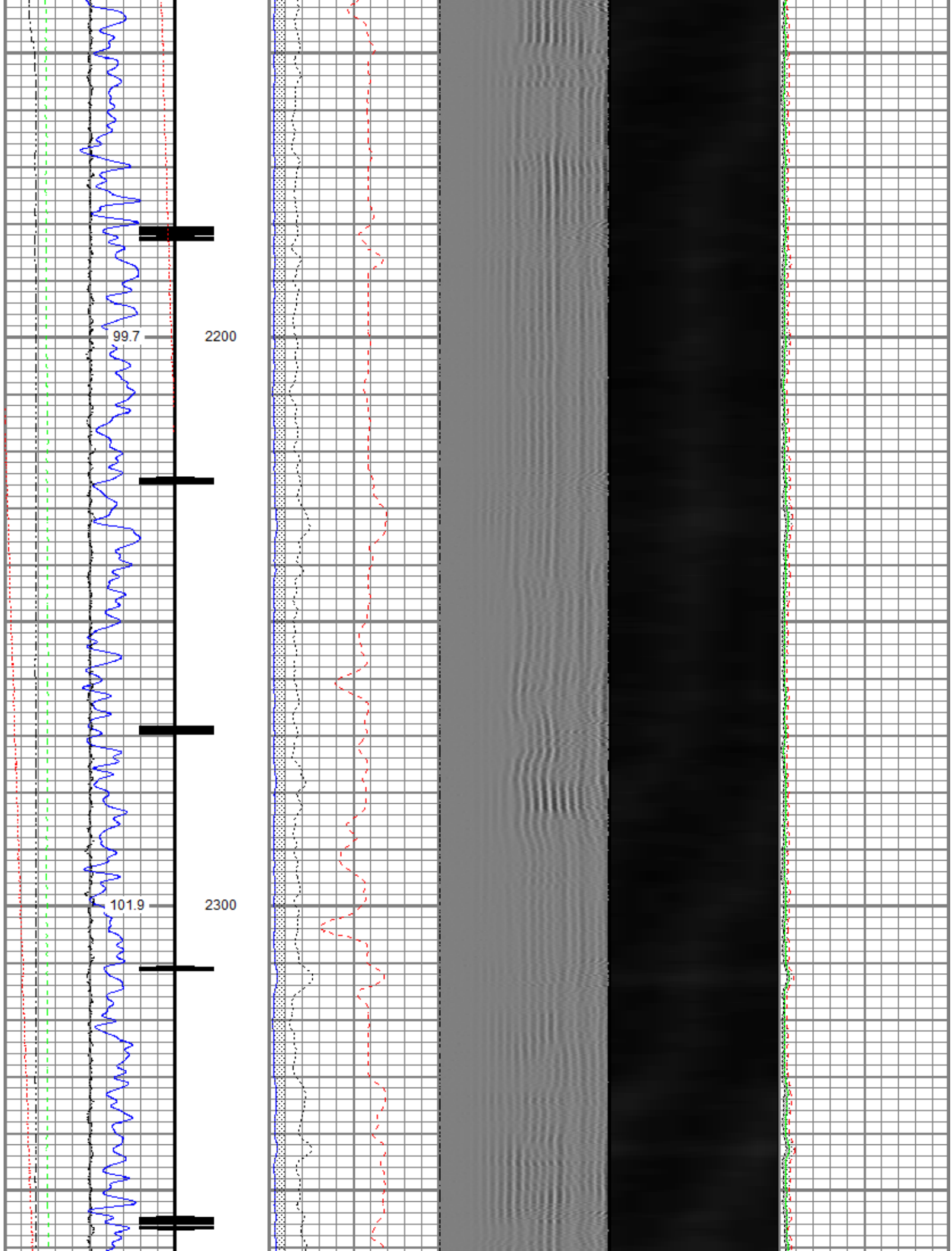


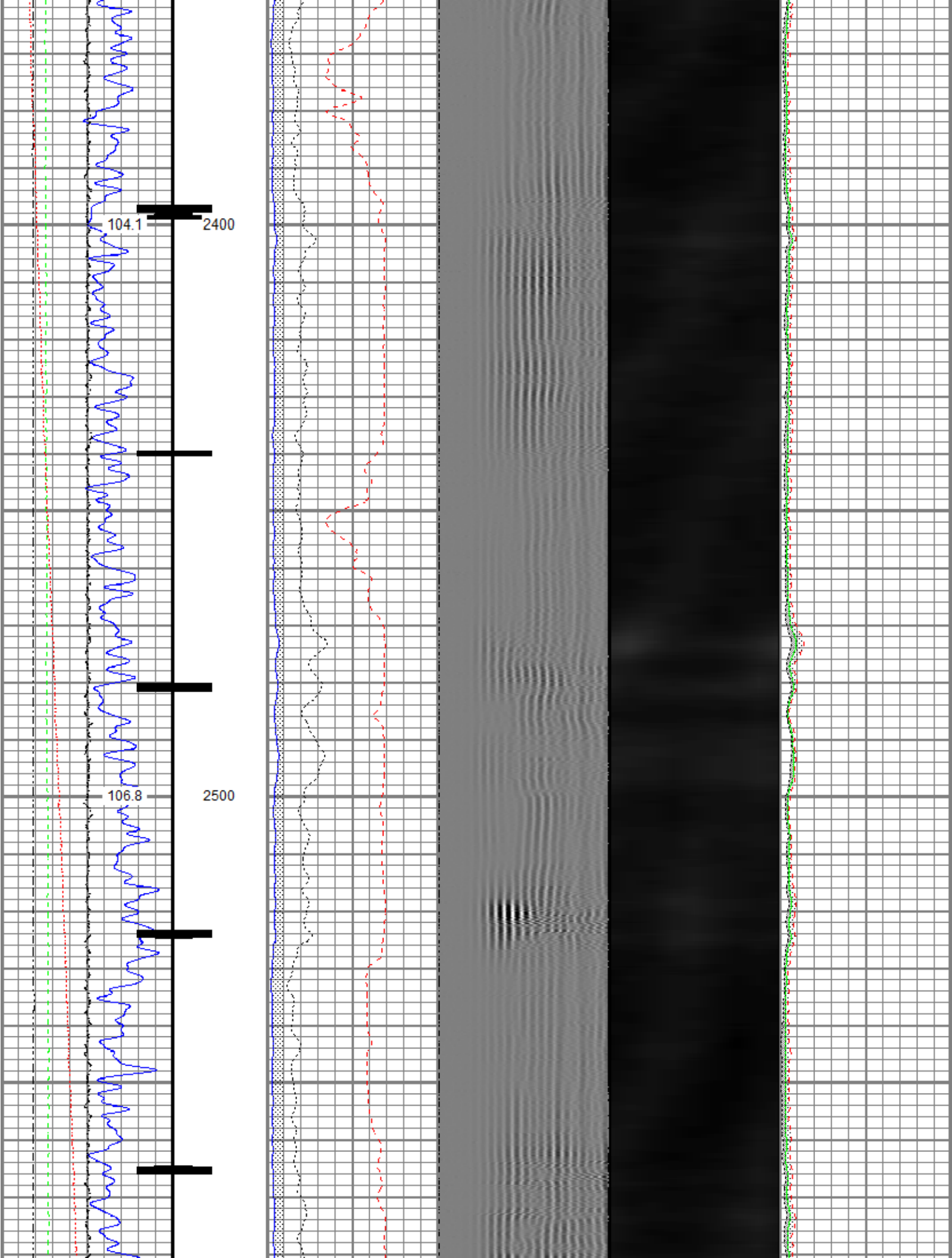


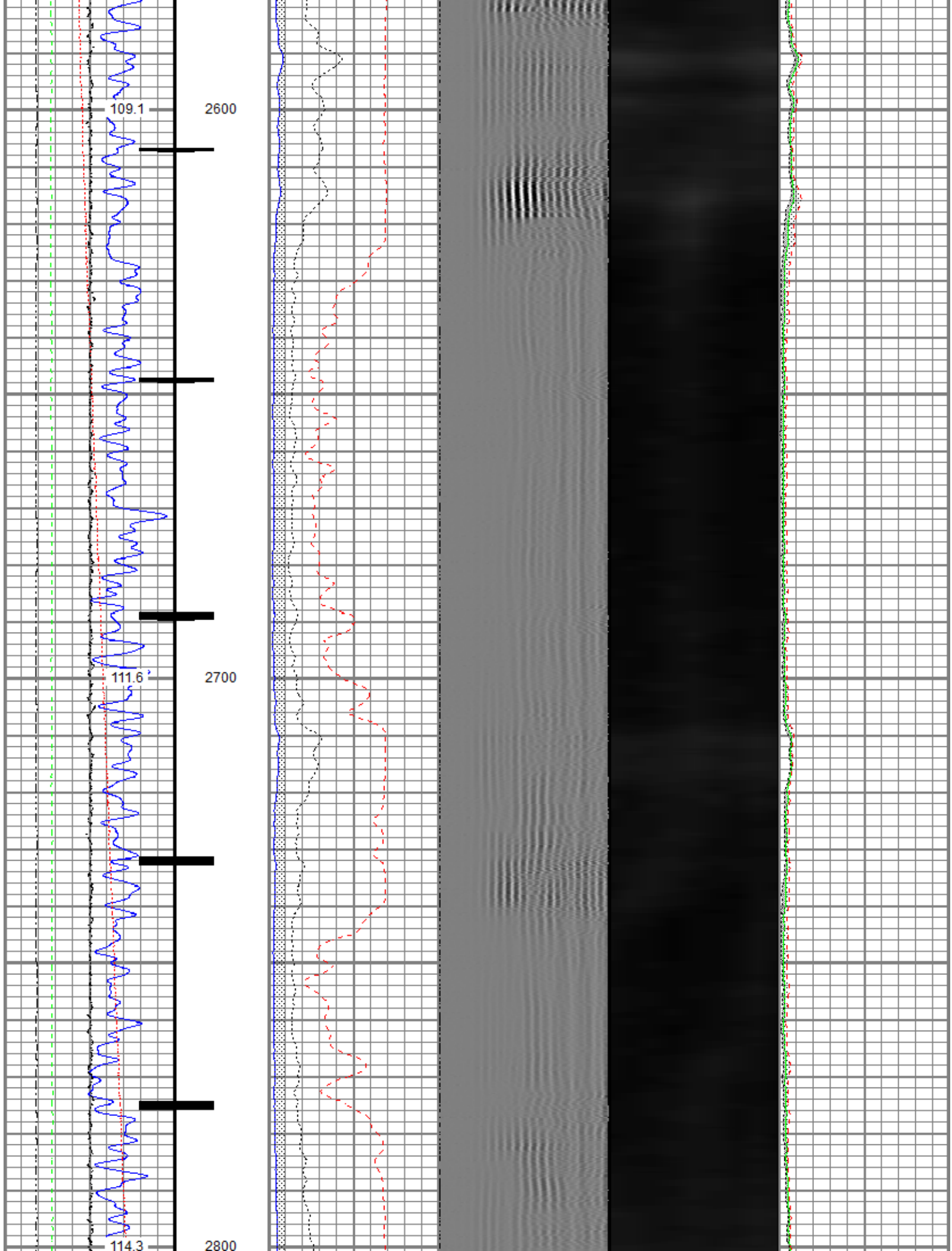


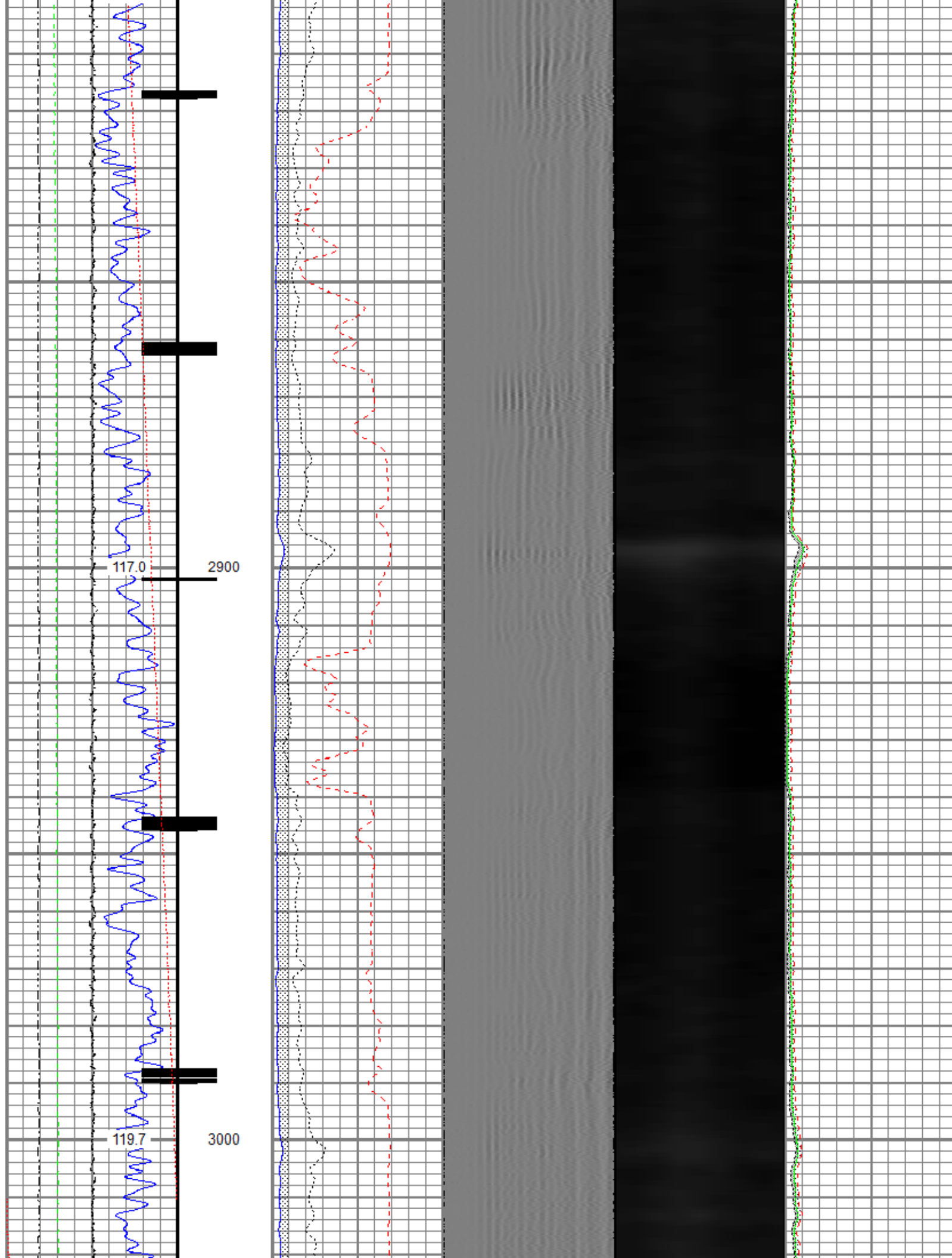


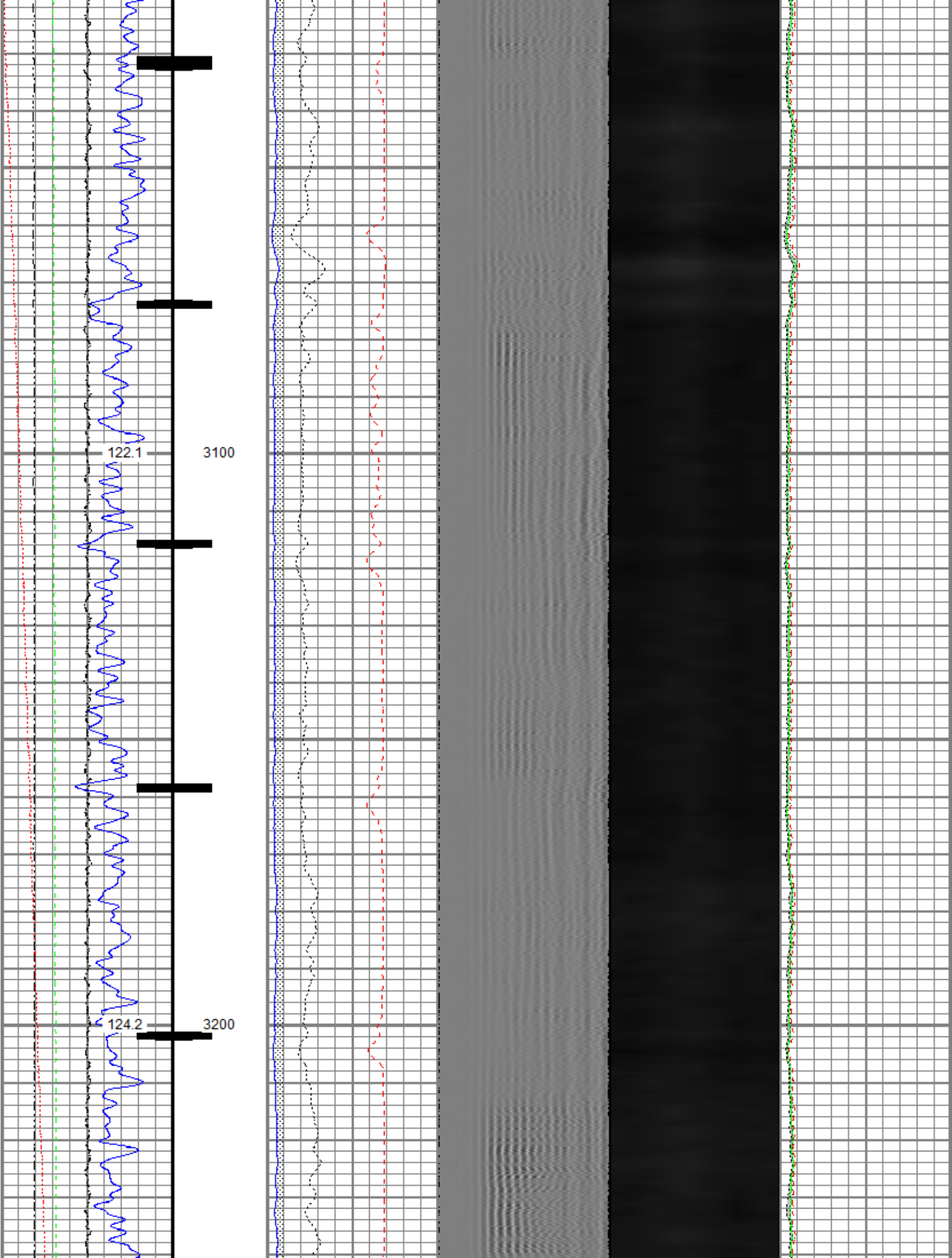


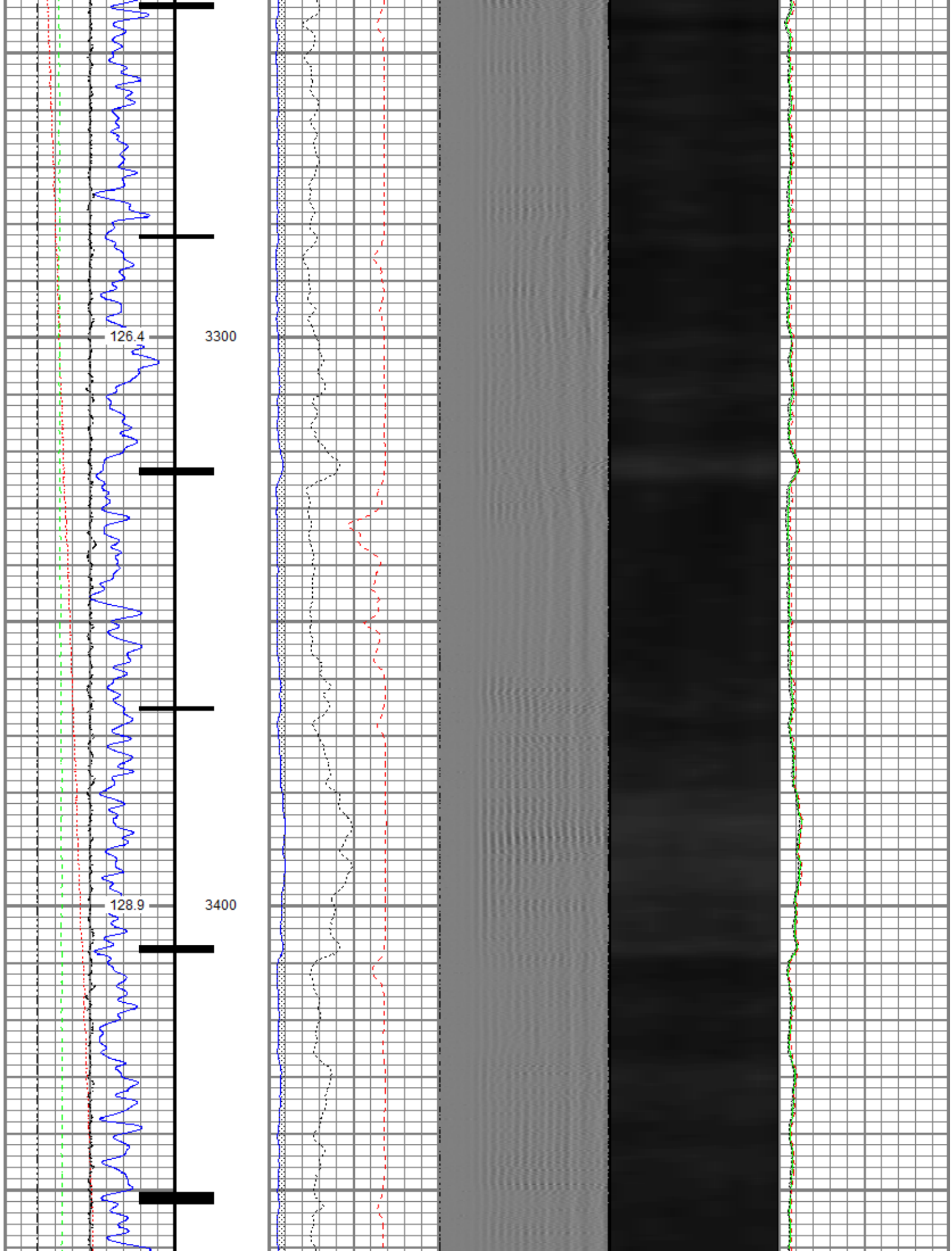


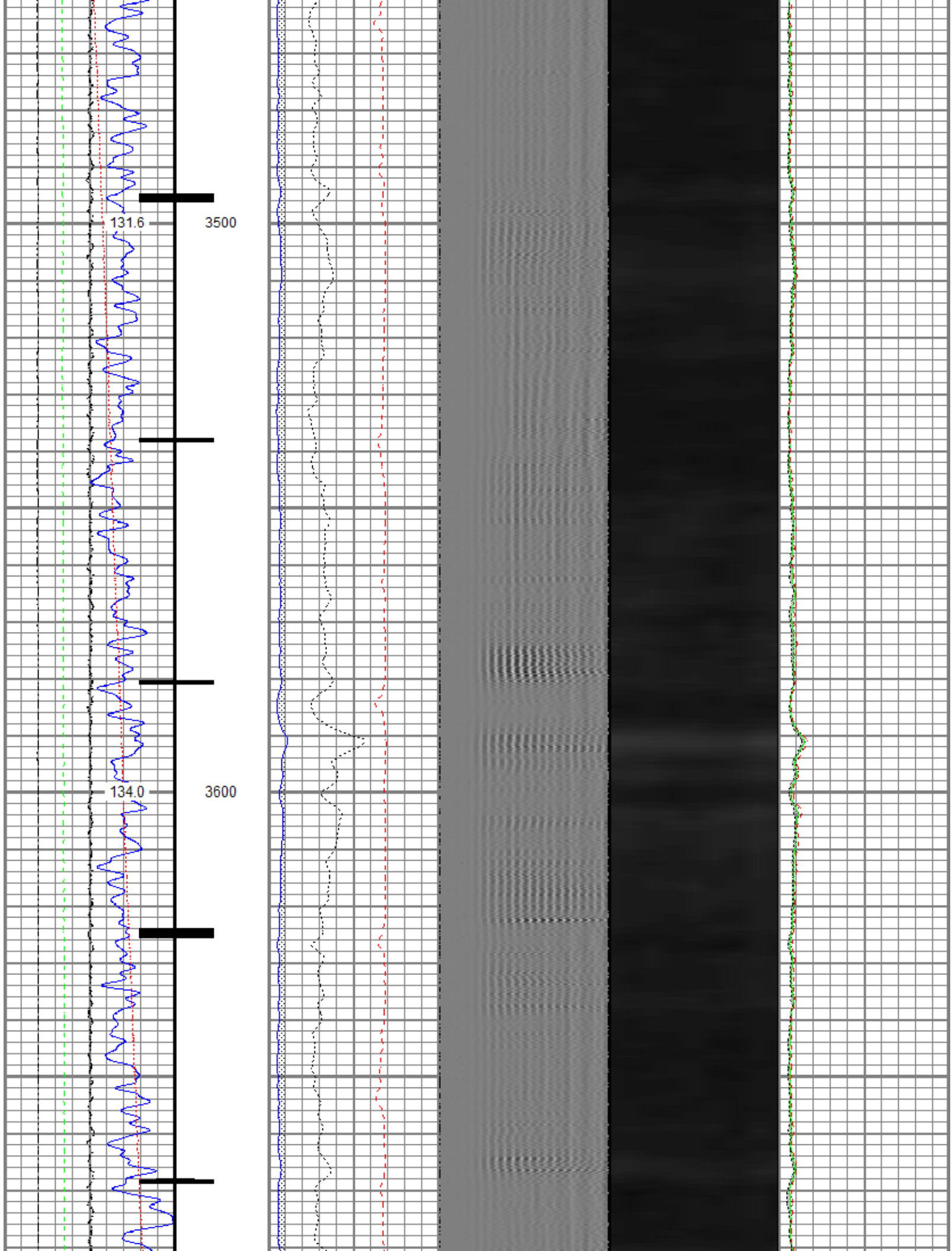


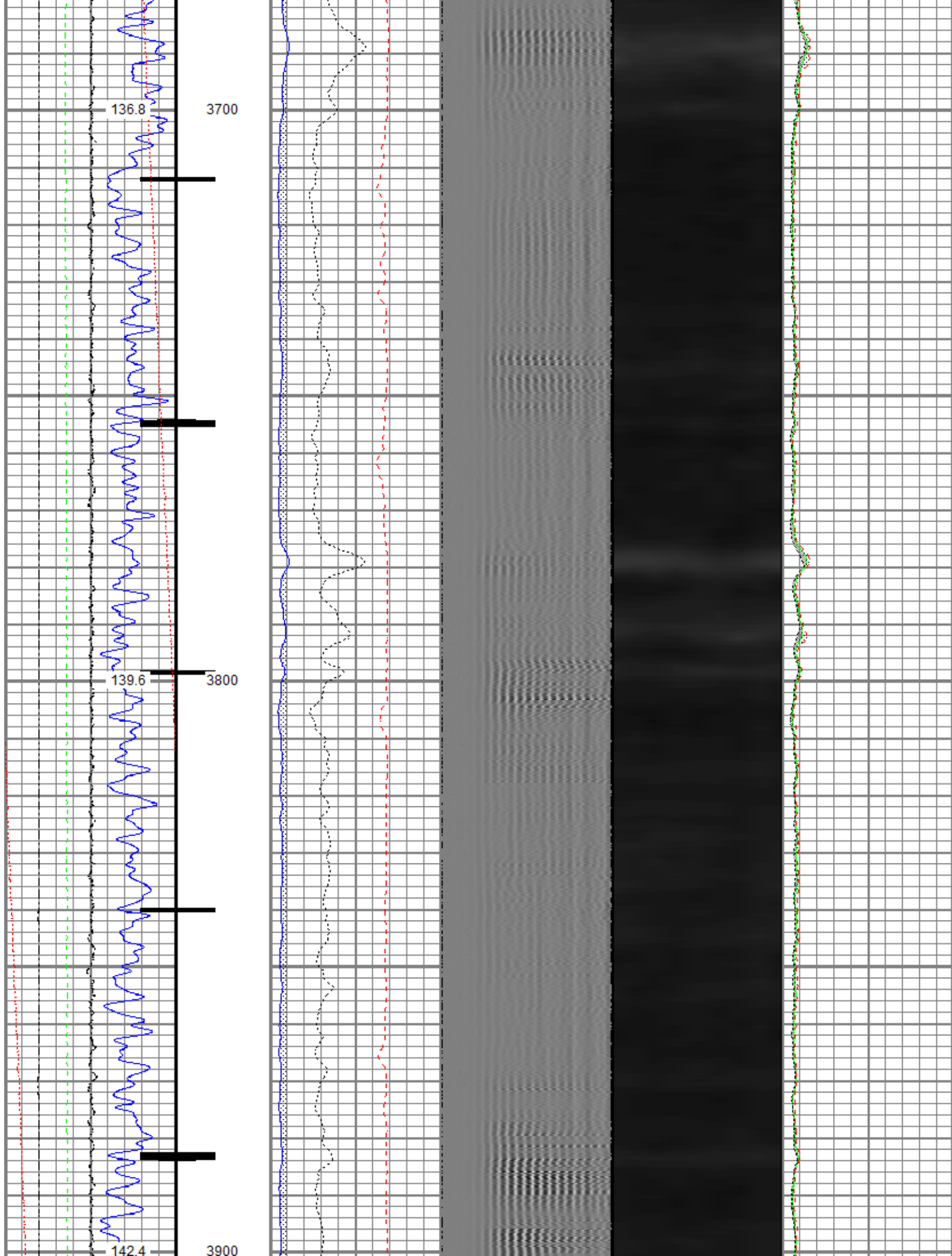


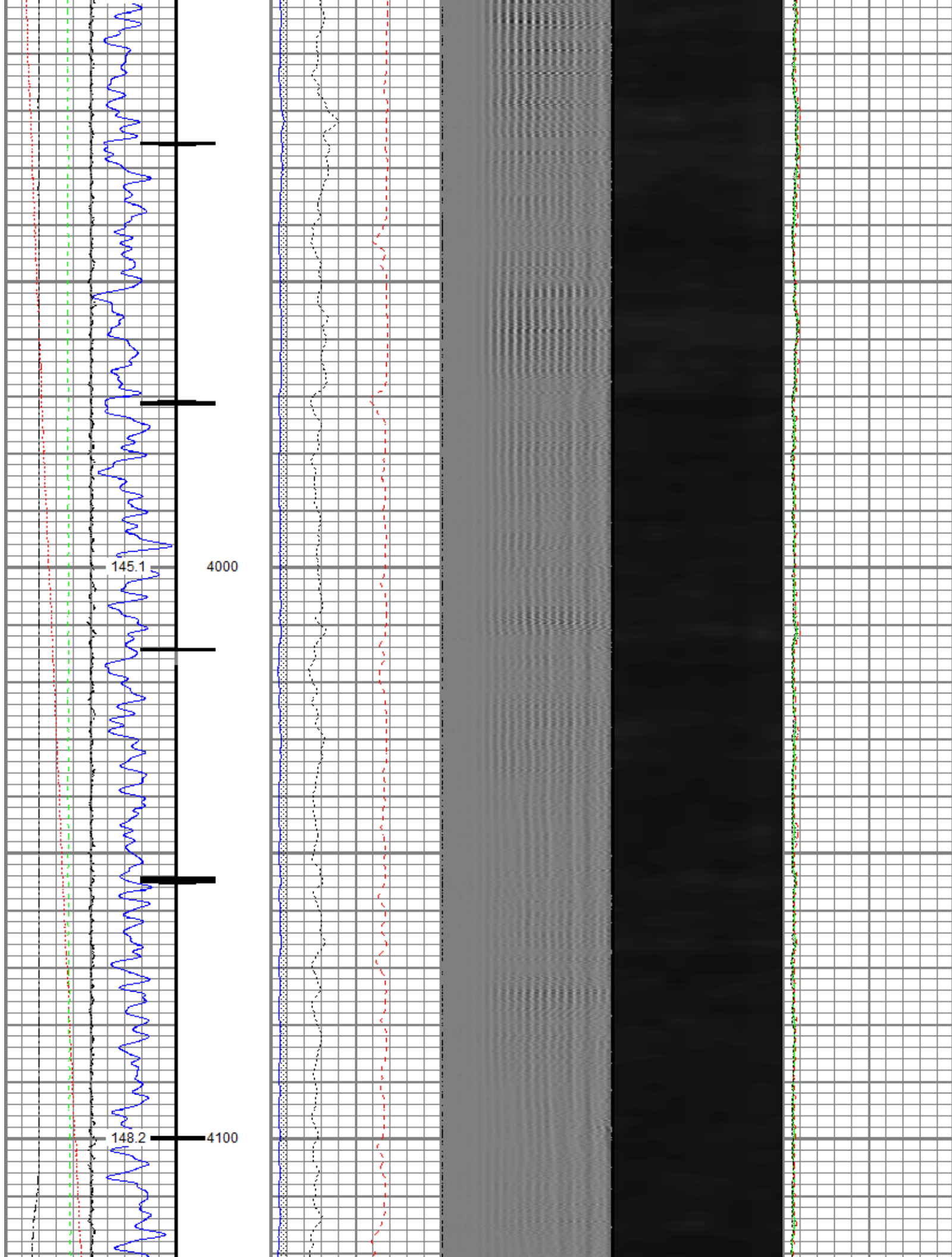


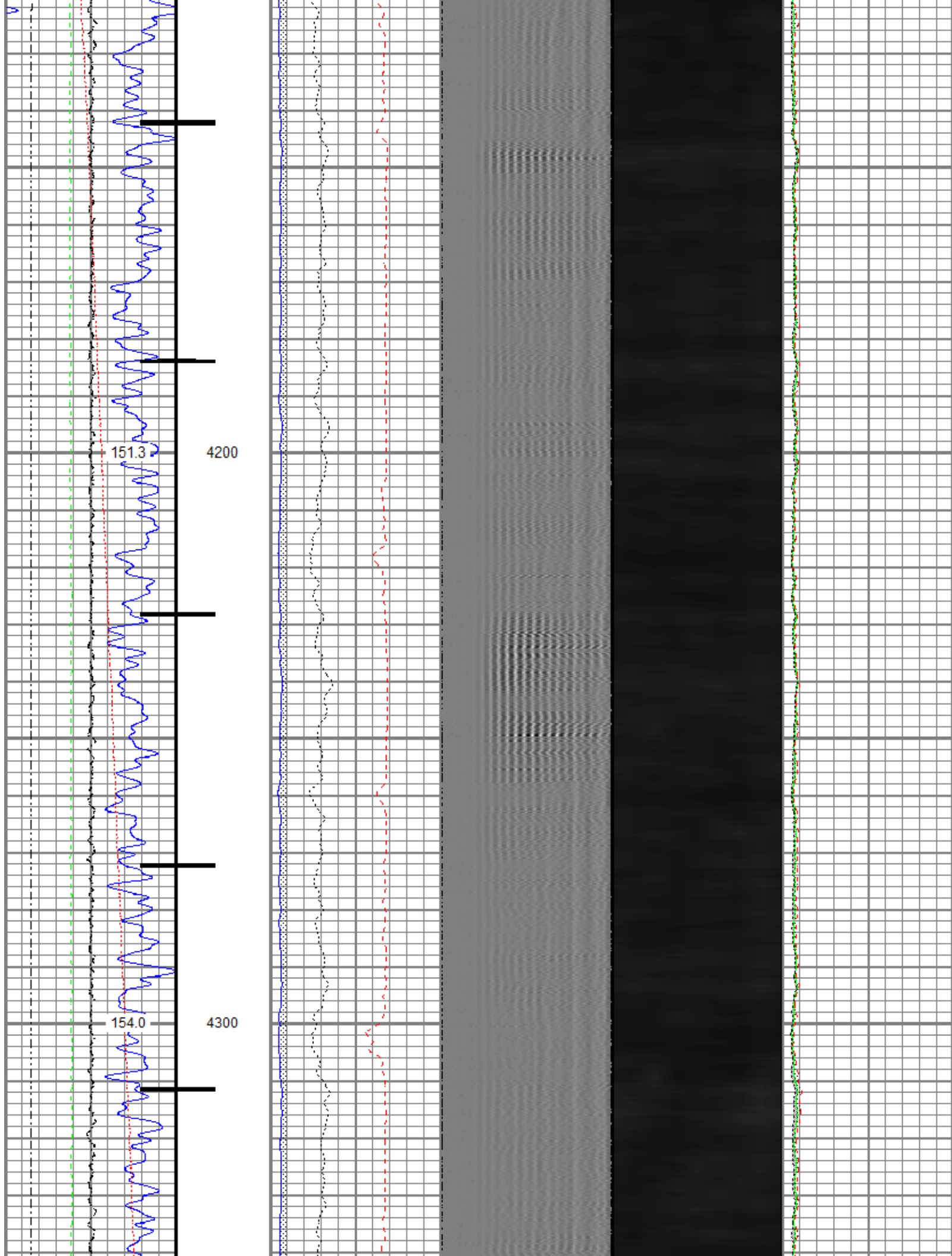


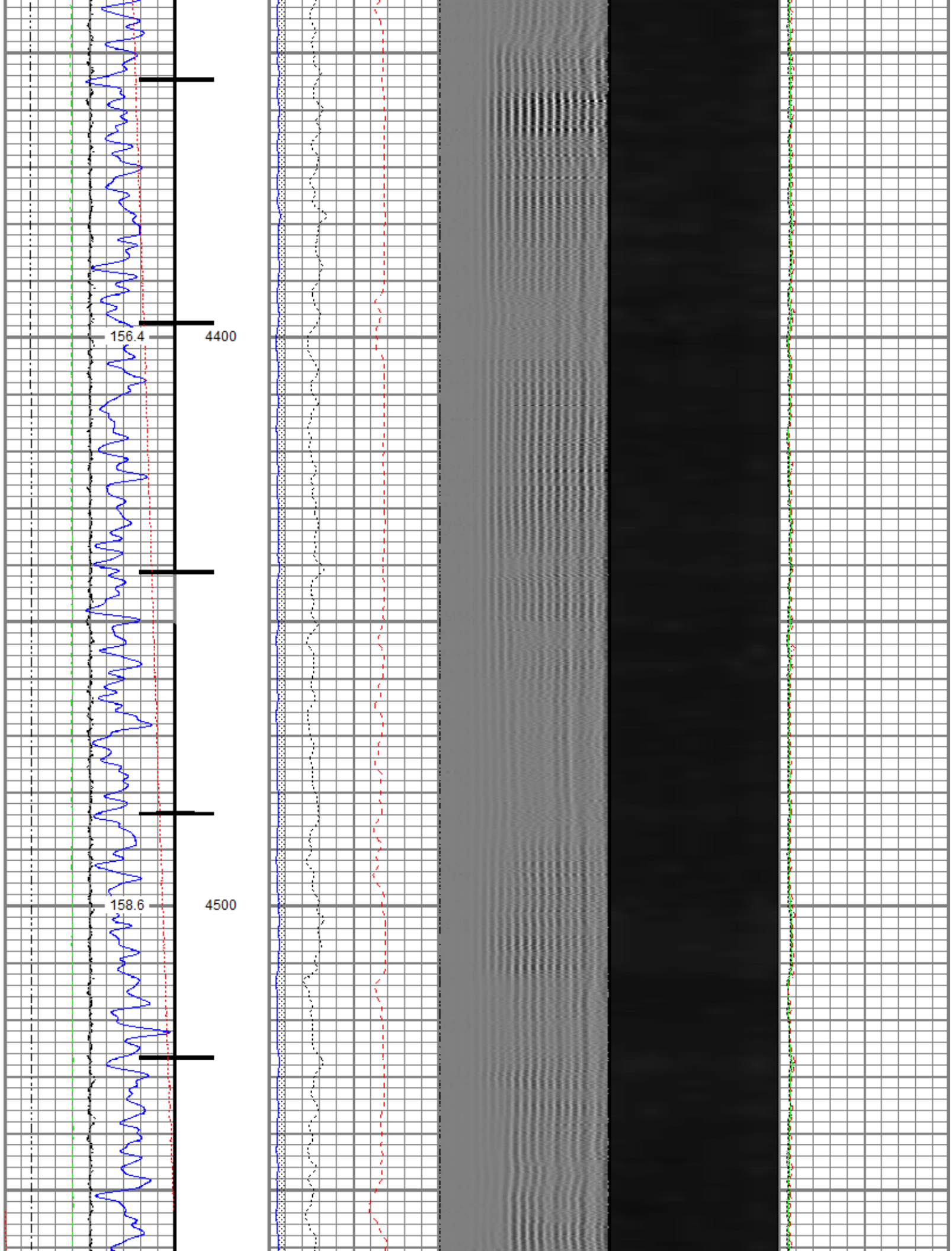


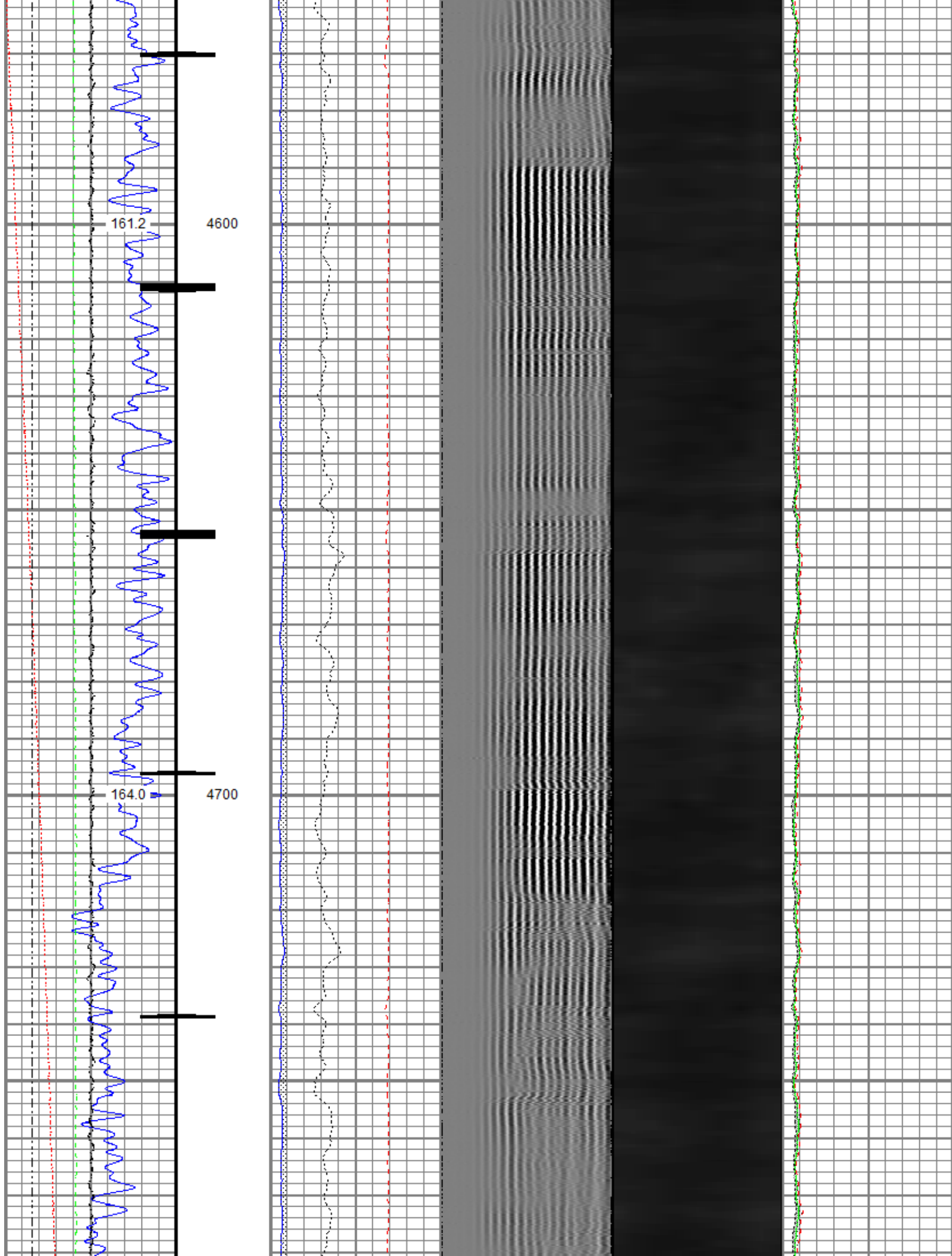


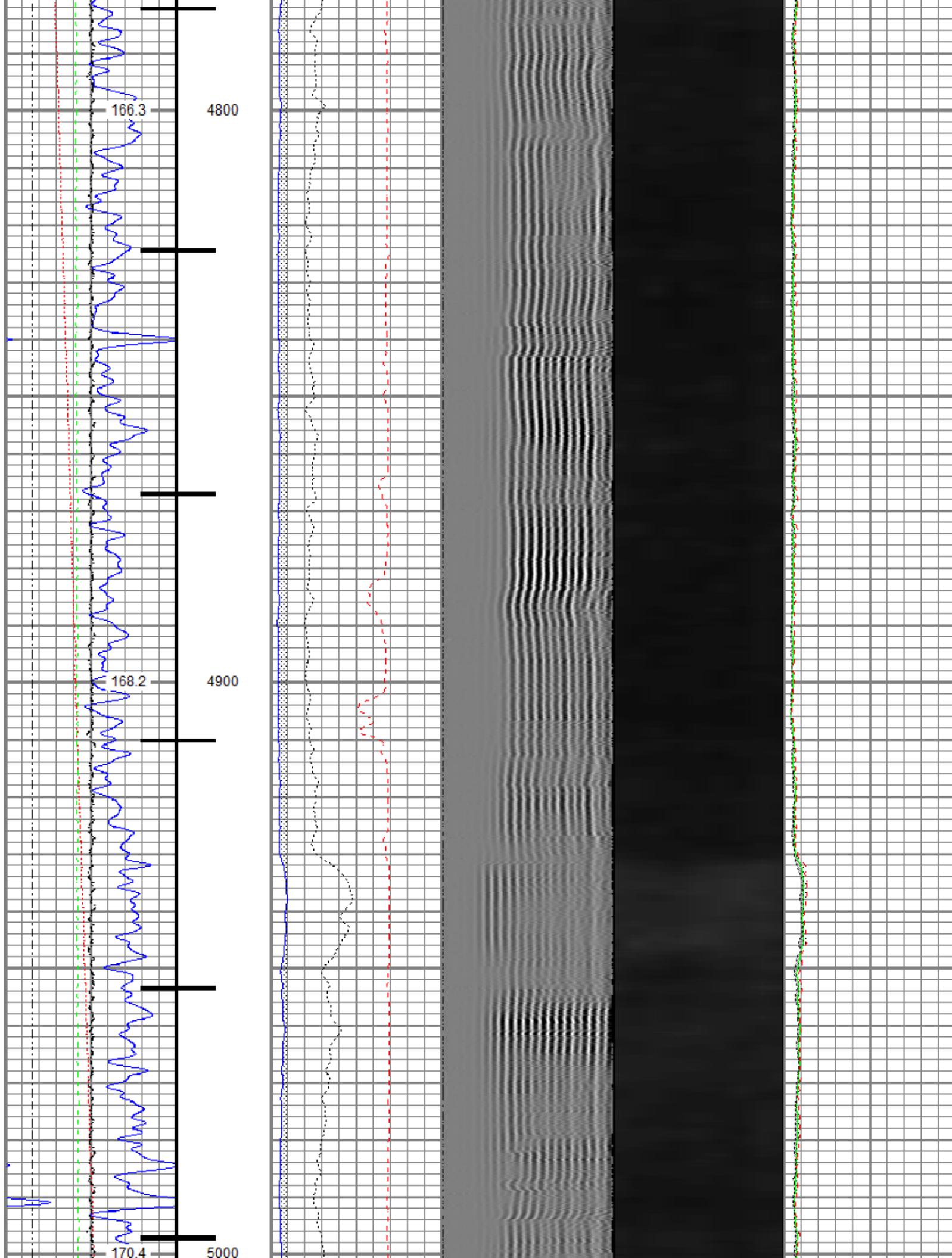


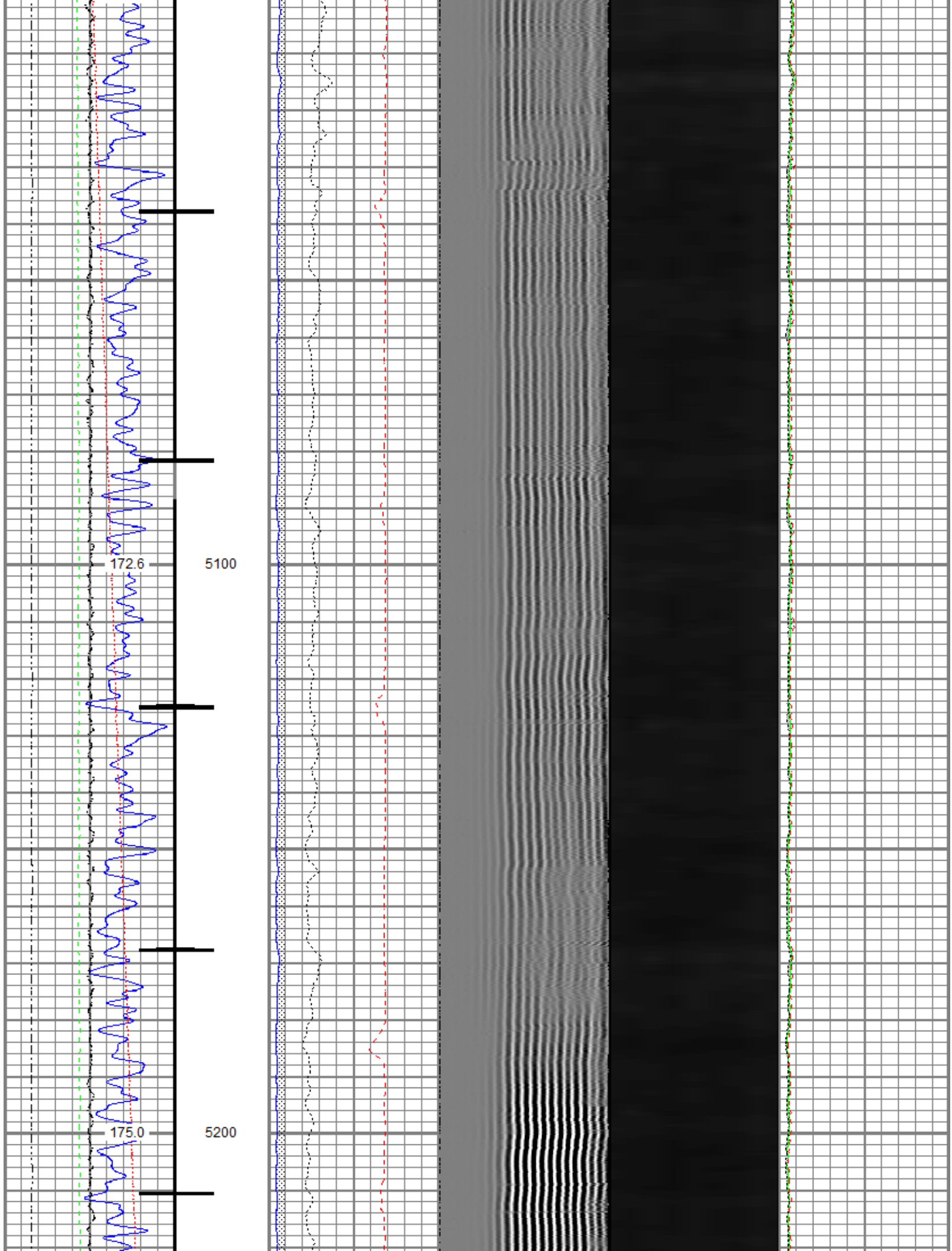


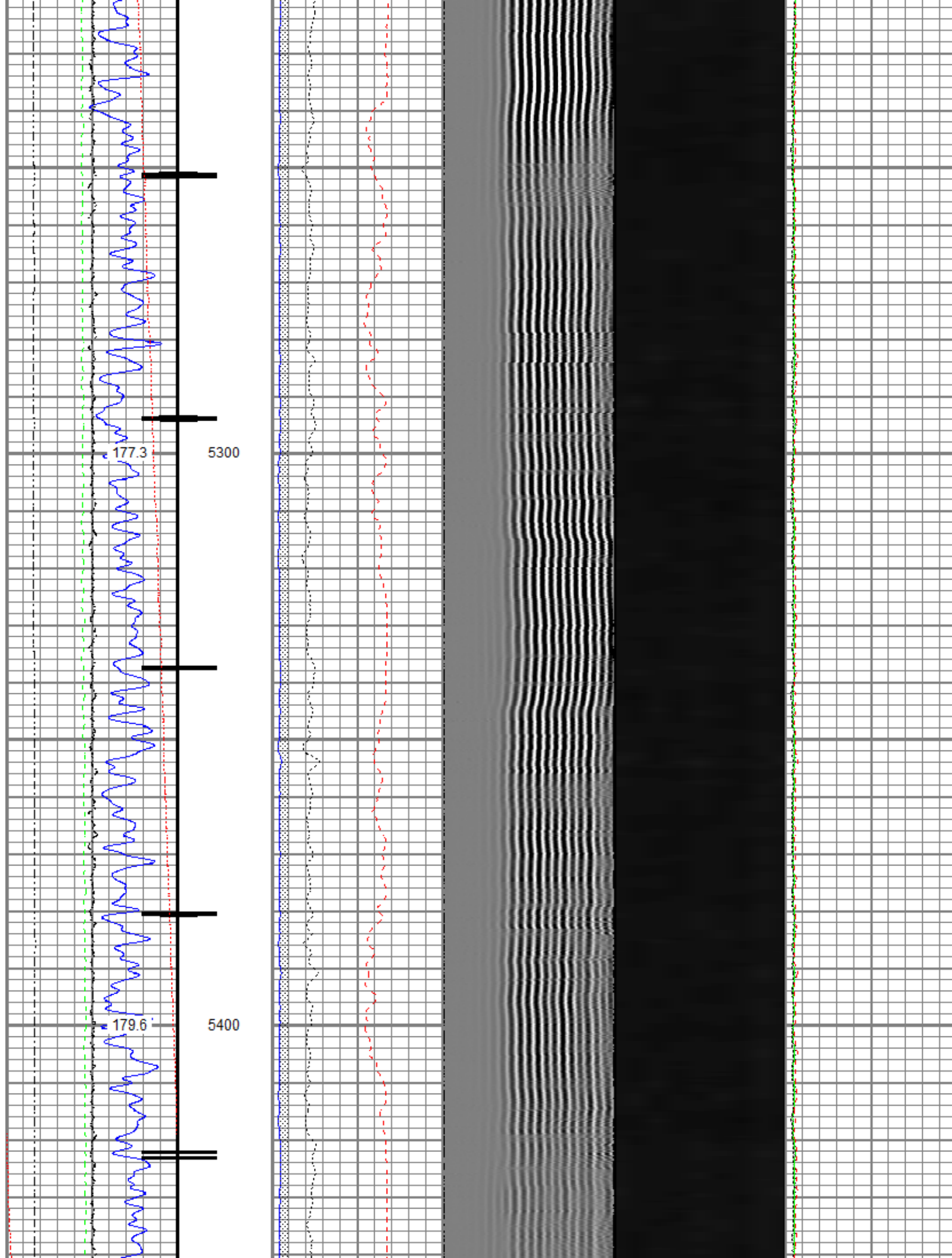


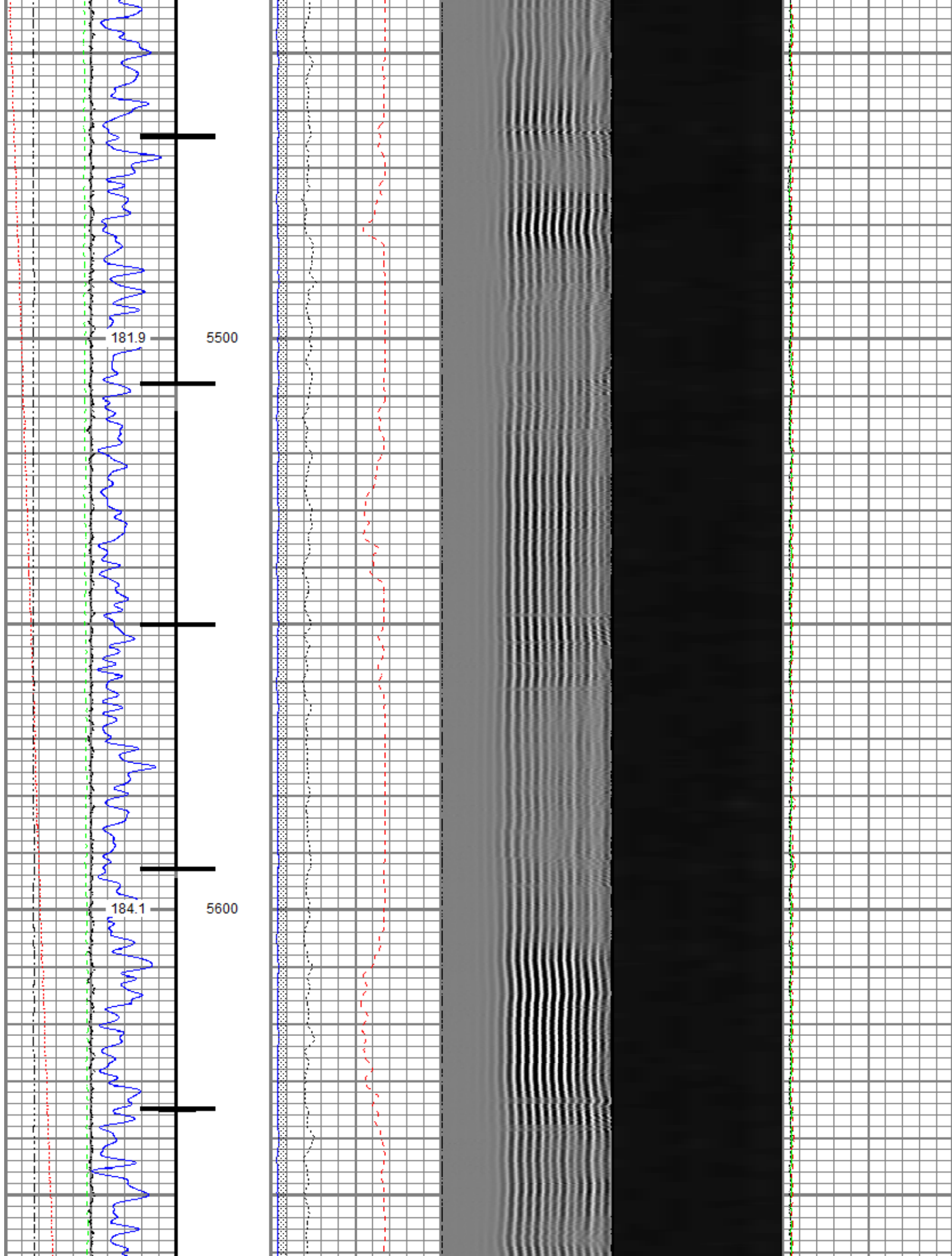


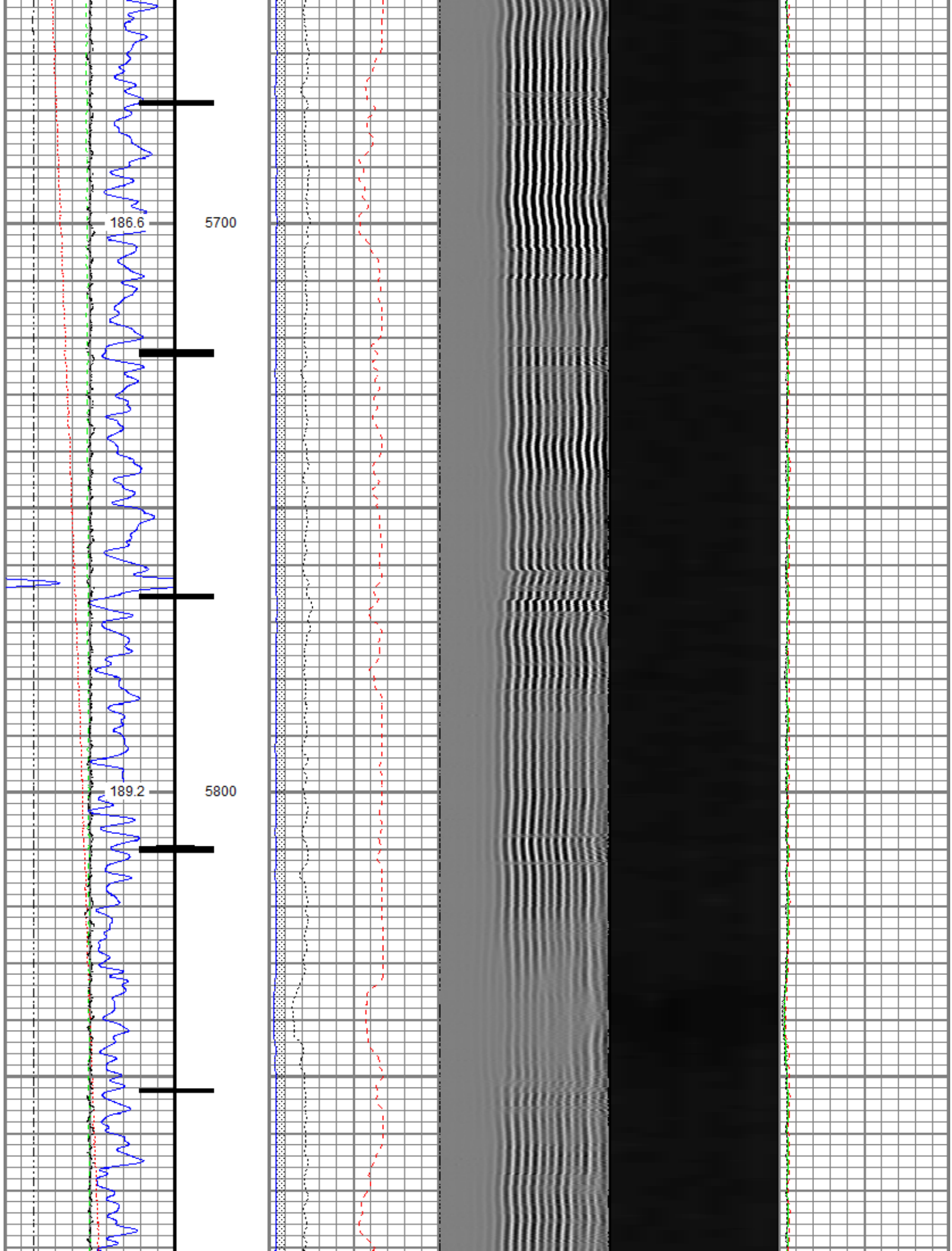


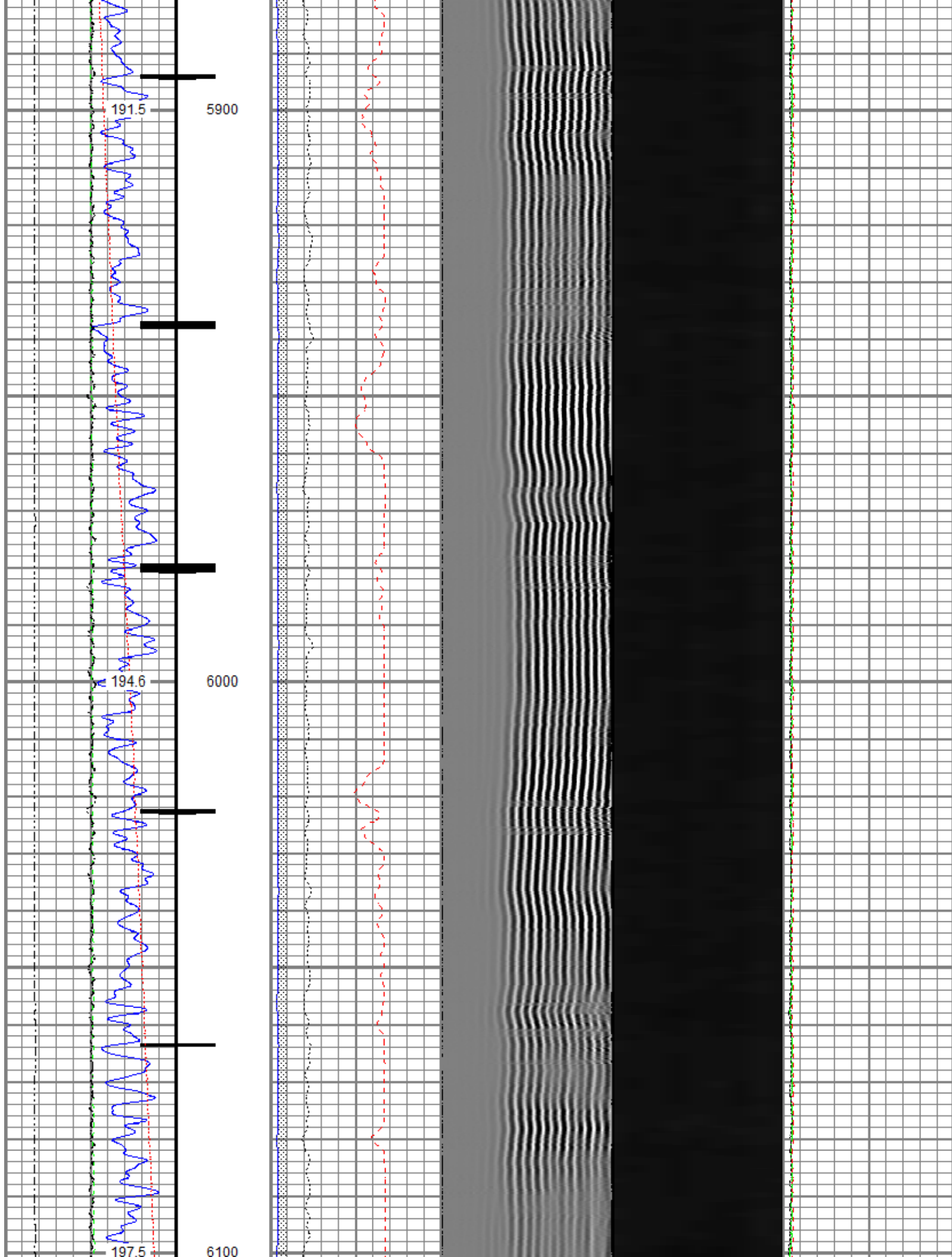


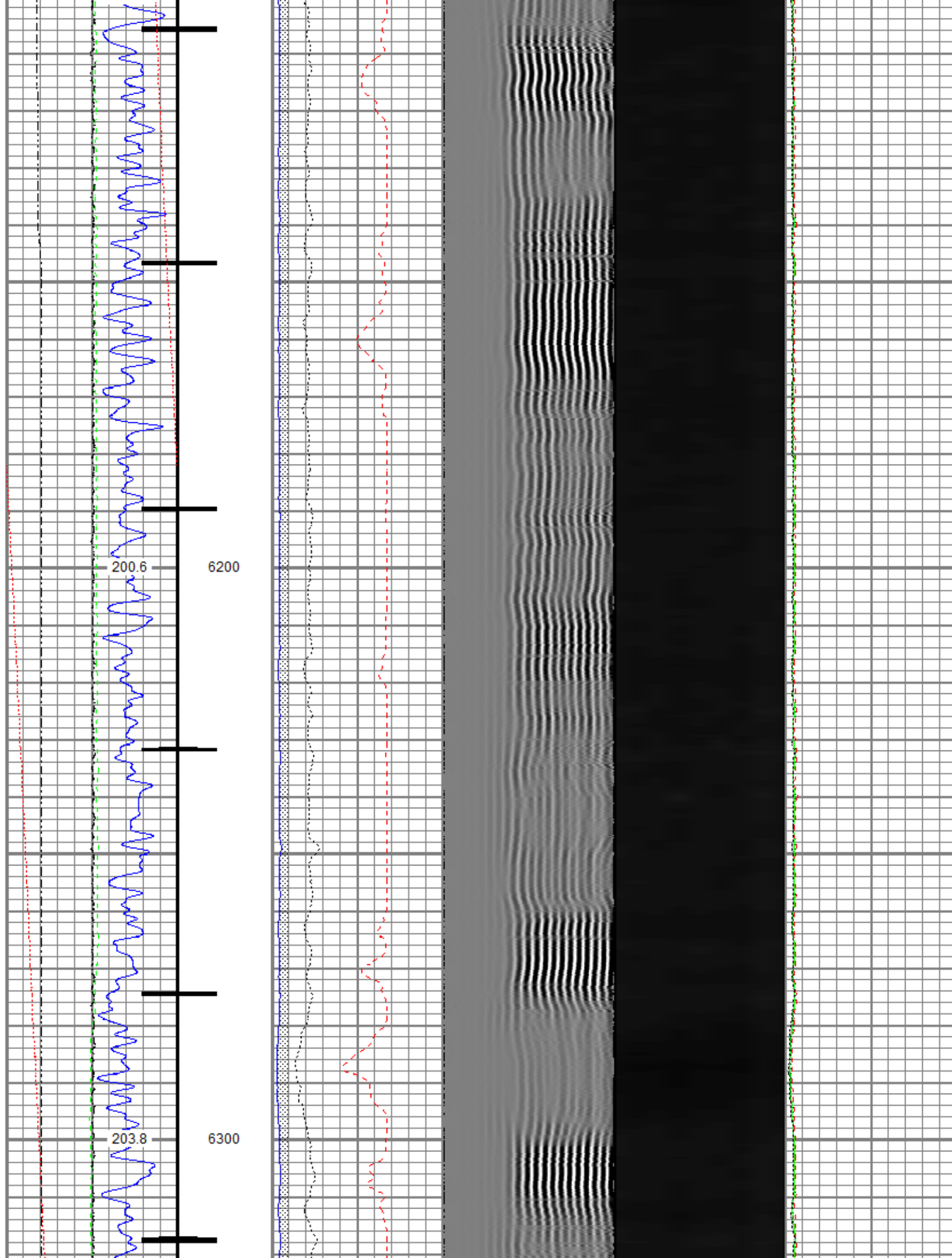


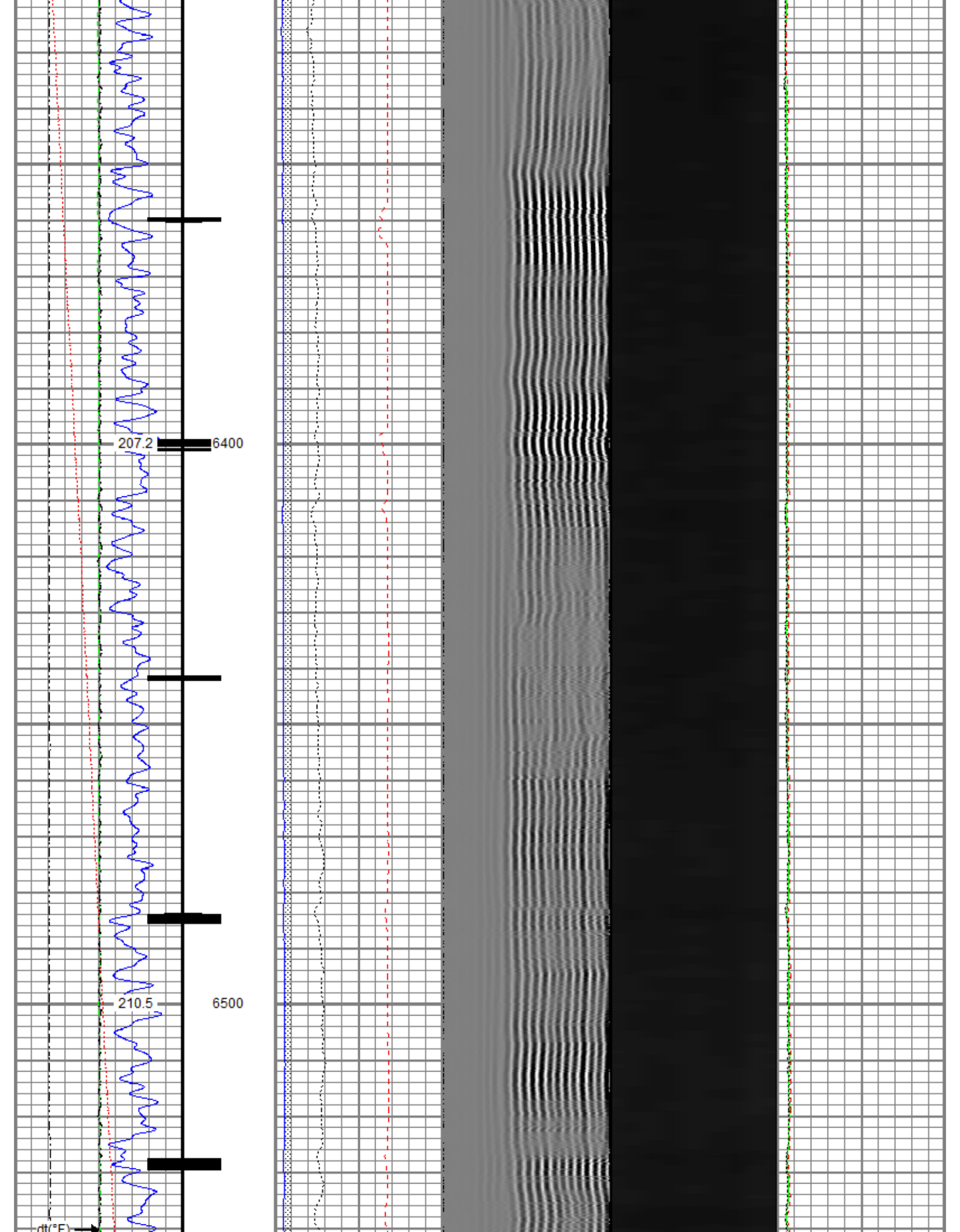


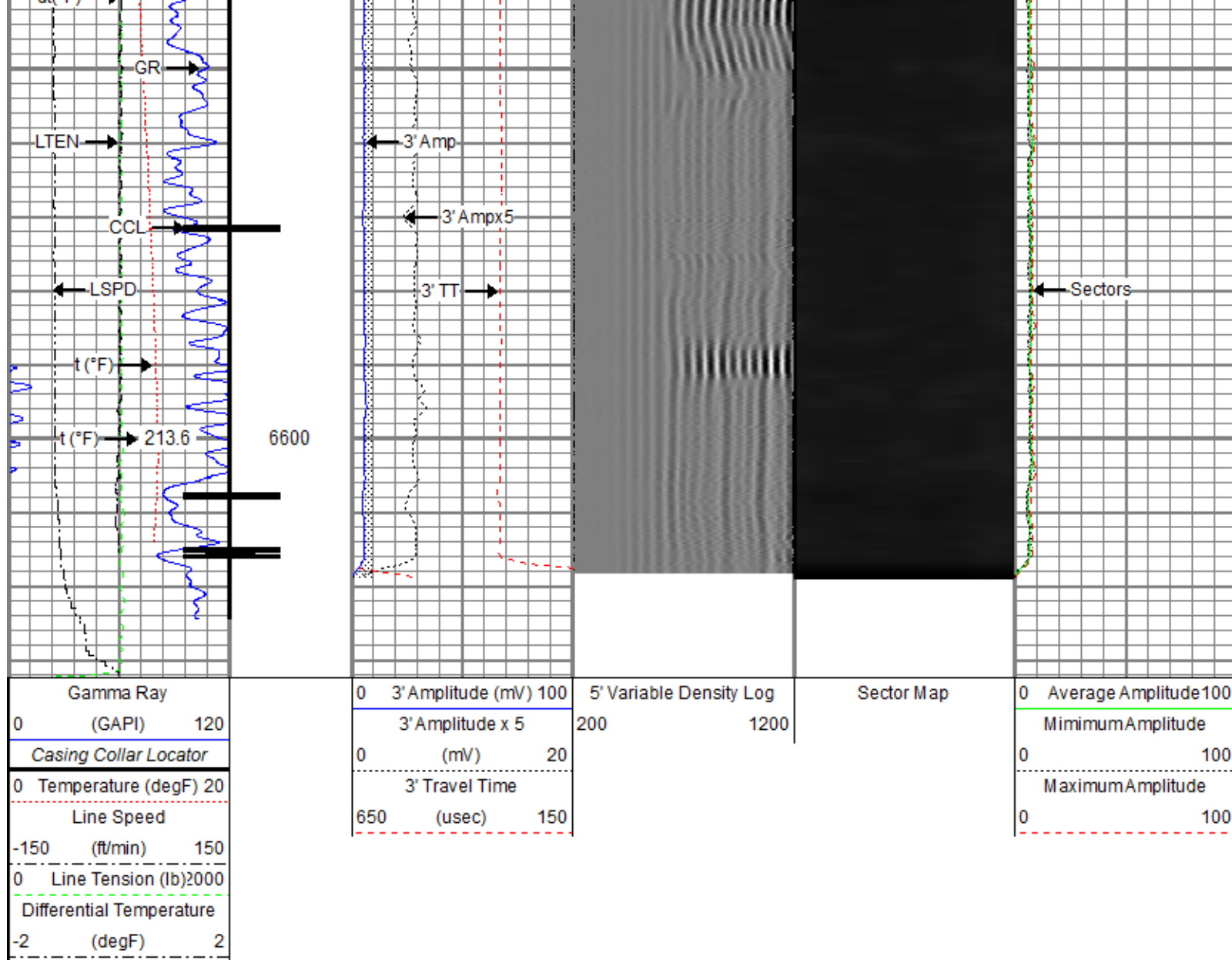








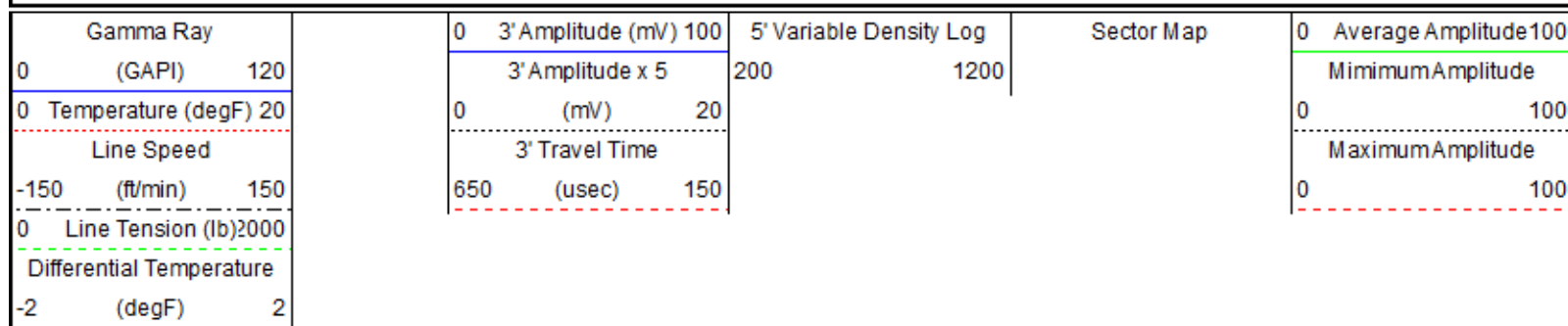




Repeat Pass

Recorded With 2800 PSI Surface Induced Pressure

Database File: anadarko_borough 27n-17hz\0512345225_anadarko_borough 27n-17hz_rbl_01-20-18.db
 Dataset Pathname: pass2.1
 Presentation Format: ros_radri
 Dataset Creation: Sun Jan 21 15:27:38 2018
 Charted by: Depth in Feet scaled 1:240



Repeat Pass

Repeat Pass

210.7

6500

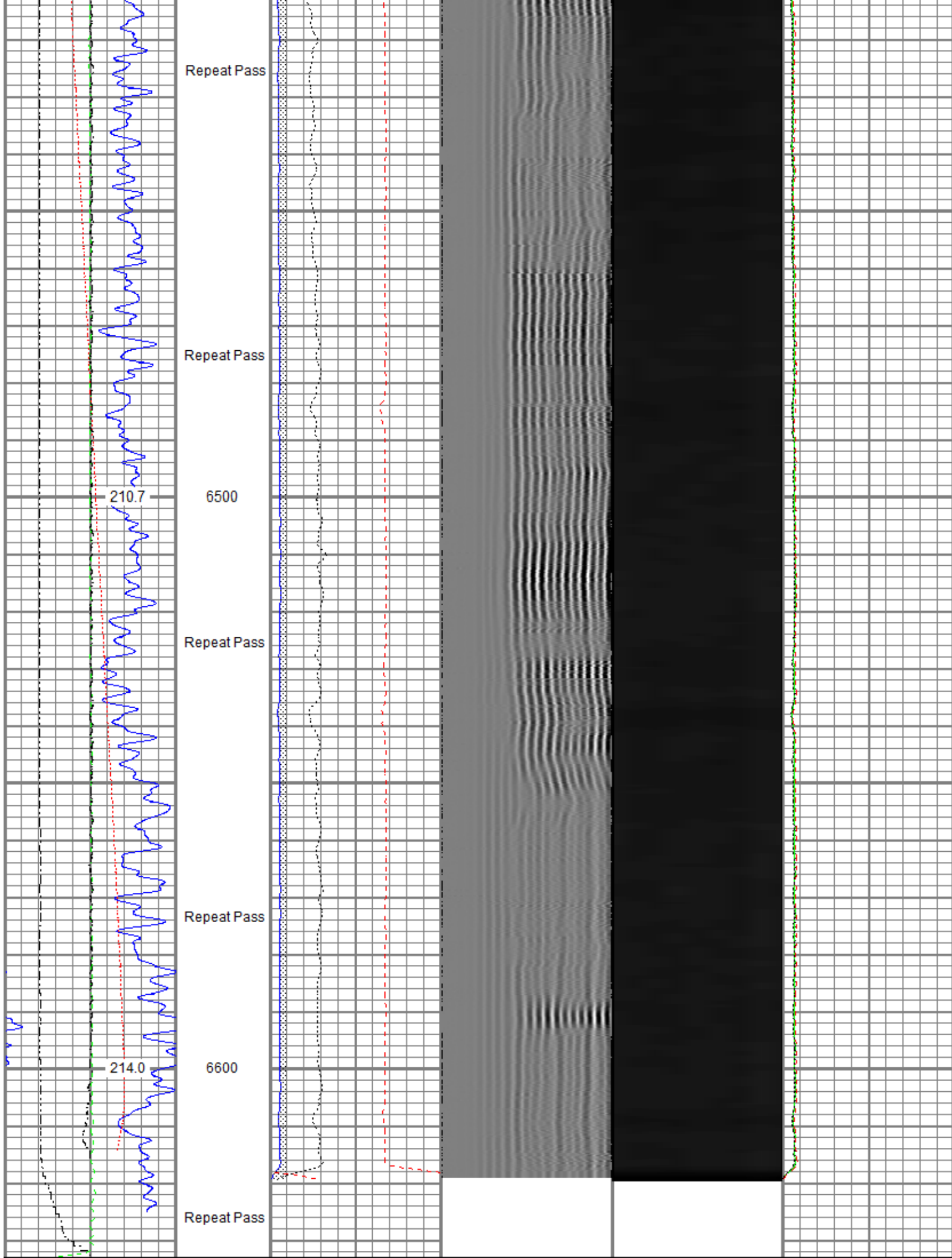
Repeat Pass

Repeat Pass



214.0

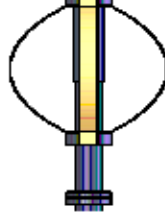
6600

Repeat Pass



Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	200	1200	Sector Map	0	Average Amplitude	100
(GAPI)	120	3' Amplitude x 5							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	17.03		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	14.80		Probe Radii-2750 RBT (FW1302-002)	9.39	2.75	105.00
WVFS7	14.80		Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
WVFS6	14.80					
WVFS5	14.80					
WVFS4	14.80					
WVFS3	14.80					
WVFS2	14.80					
WVFS1	14.80					
WVFCAL	14.80					
WVF3FT	14.80					
WVF5FT	13.80					
HEADVOLT	10.55		Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			
CCL\$2	6.79					
CCL\$1	6.79					
GR	5.55		Probe GR-CCL-2750 GOB (FW1212-026)	4.51	2.75	55.00
			Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined			
			Probe ADPT-6P-GO	0.28	2.75	2.00
			Probe 2-3/4" 6 Pin Top to GO Bottom Adapter Sub			



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

2.88

2.75

20.00

Dataset: 0512345225_Anadarko_Borough 27N-17HZ_RBL_01-20-18.db: field/well/run1/pass1
Total length: 23.86 ft
Total weight: 225.60 lb
O.D.: 2.75 in

Calibration Report

Database File C:\ProgramData\Warrior\Data\Anadarko_Borough 27N-17HZ\0512345225_Anadarko_Borough 27N-17HZ_RBL_01-20-18.db
Dataset Pathname pass1
Dataset Creation Sat Jan 20 08:02:33 2018

Gamma Ray Calibration Report

Serial Number:	FW1212-026	
Tool Model:	2750 GOB	
Performed:	Sun Nov 12 12:27:51 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	113.7	cps
Calibrator Reading:	1029.1	cps
Sensitivity:	0.6959	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1302-002	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	-33.544	ft

Master Calibration, performed Fri Jan 19 11:58:06 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.028	0.648	0.800	71.921	114.769	-2.435
CAL	0.692	0.695				
5'	0.011	0.592	0.800	71.921	122.325	-0.548
SUM						
S1	0.025	0.643	0.000	100.000	161.827	-4.085
S2	0.028	0.644	0.000	100.000	162.346	-4.556
S3	0.026	0.643	0.000	100.000	162.266	-4.288
S4	0.027	0.640	0.000	100.000	162.934	-4.346
S5	0.025	0.643	0.000	100.000	161.856	-4.064
S6	0.027	0.650	0.000	100.000	160.458	-4.337
S7	0.030	0.652	0.000	100.000	160.681	-4.753
S8	0.029	0.653	0.000	100.000	160.297	-4.704


Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.692	0.695	1.000	0.000

Air Zero Calibration, performed Thu Jan 18 07:23:09 2018:

	Raw (v)	Calibrated (v)	Results
	<u>Zero</u>	<u>Zero</u>	<u>Offset</u>
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:	FW1302-002			
Tool Model:	2750 RBT			
Performed:	Sun Nov 12 13:28:07 2017			
	Reference		Reading	
Low Reference:	100.00 degF		110.72 degF	
High Reference:	350.00 degF		409.18 degF	
Gain:	0.84			
Offset:	7.26			
Delta Spacing	1			

	Company	Kerr-McGee Oil & Gas Onshore, L.P.
	Well	Borough 27N-17HZ
	Field	Wattenberg
	County	Weld
	State	Colorado