

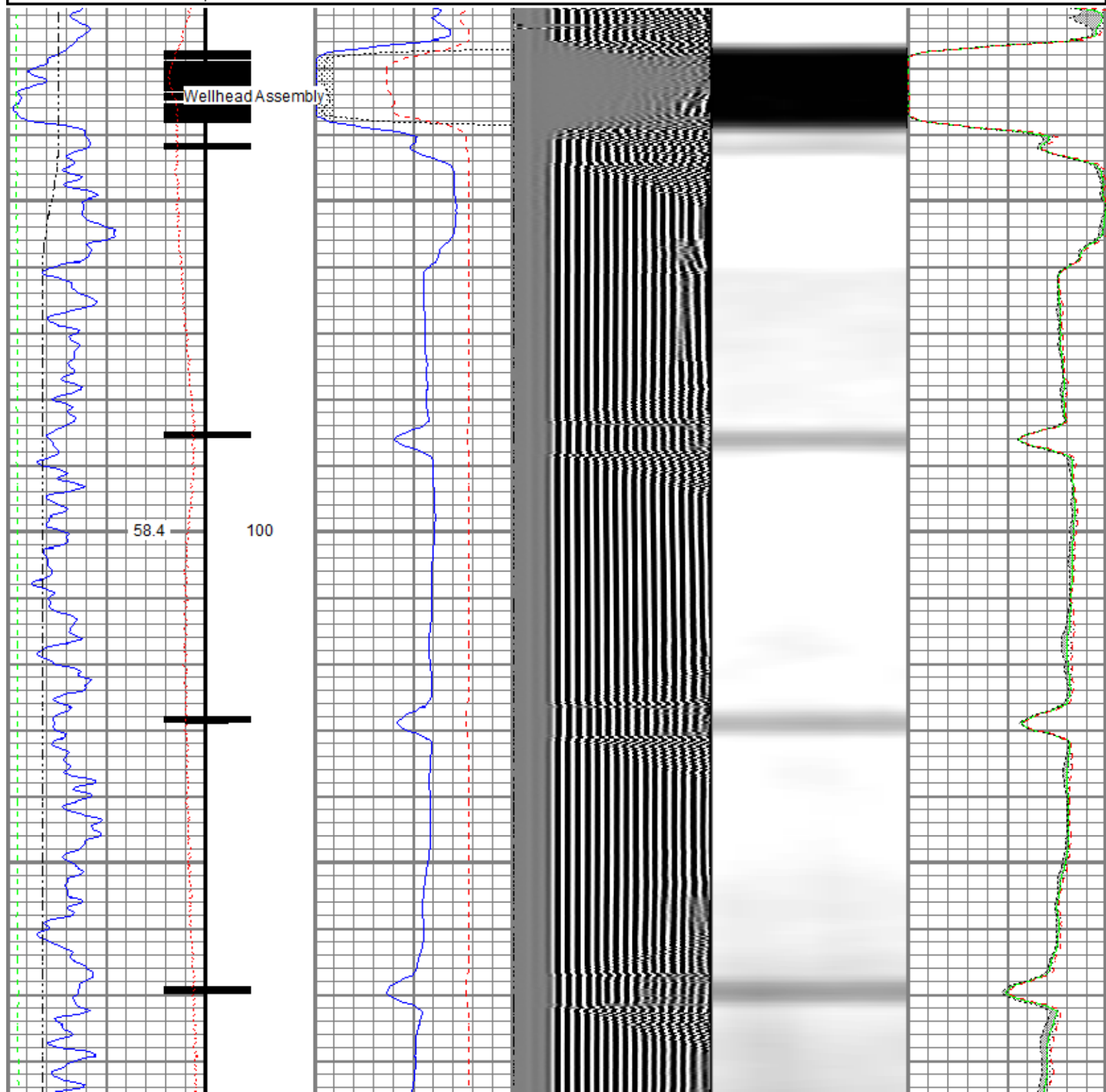


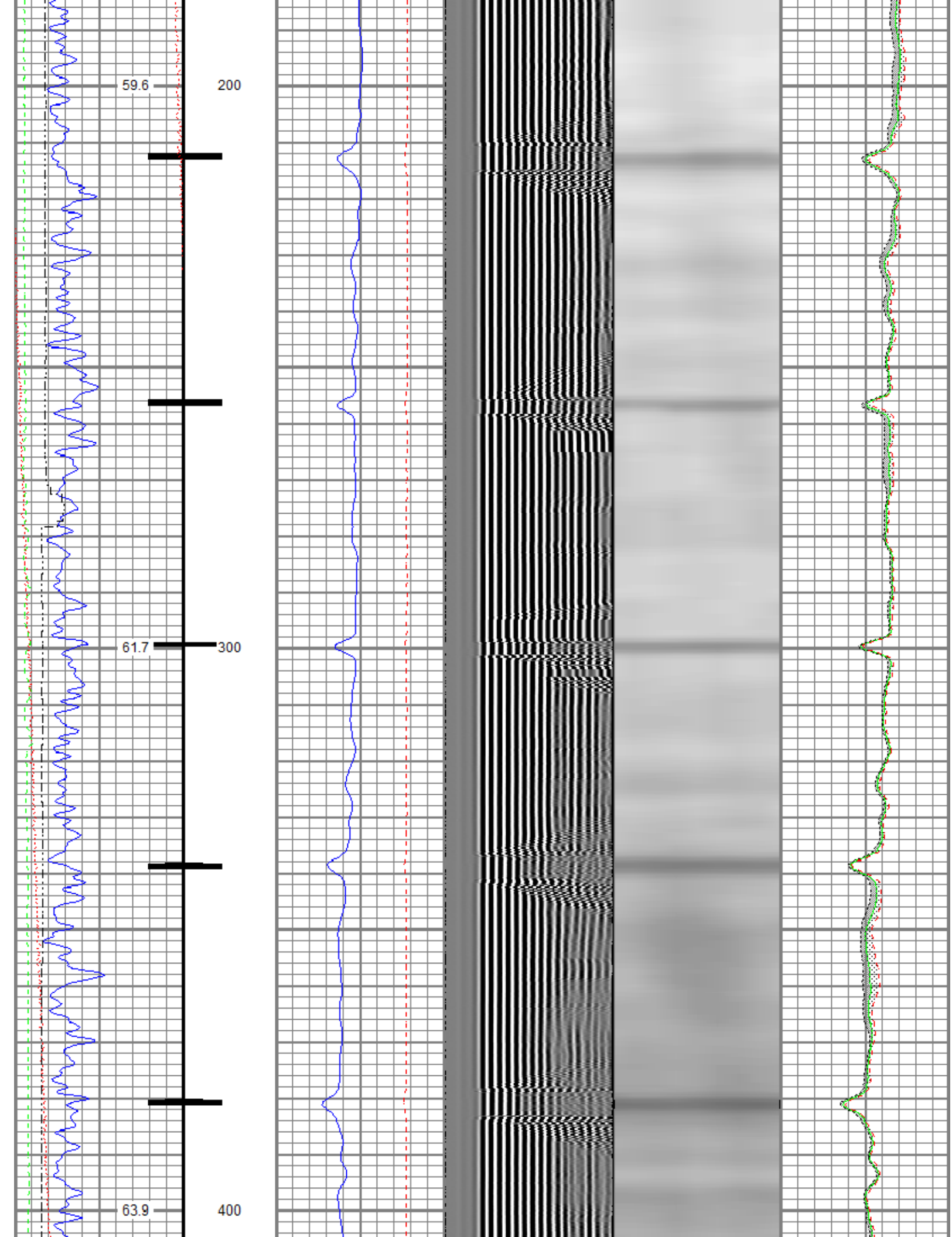


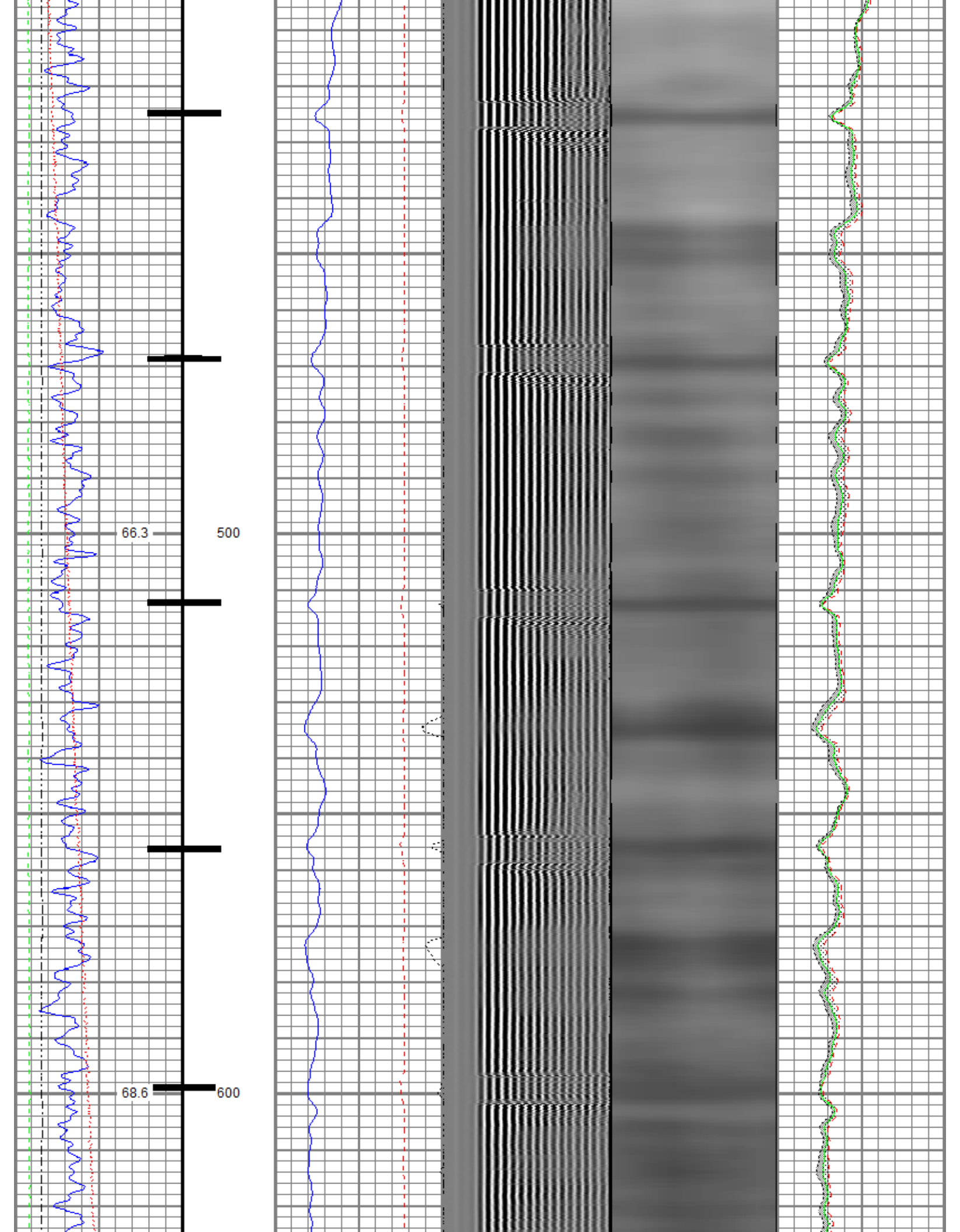
RELIANCE
OILFIELD SERVICES

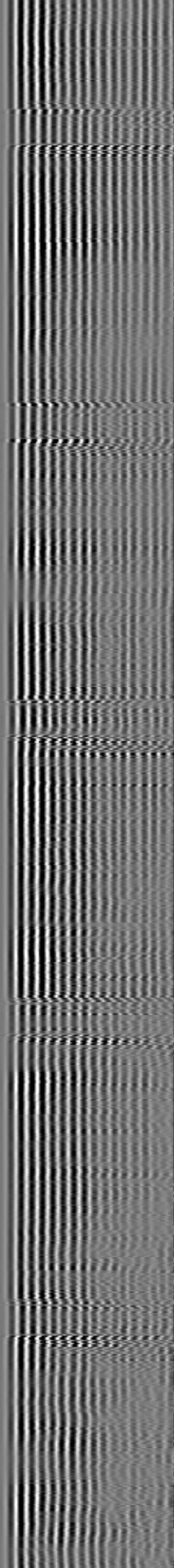
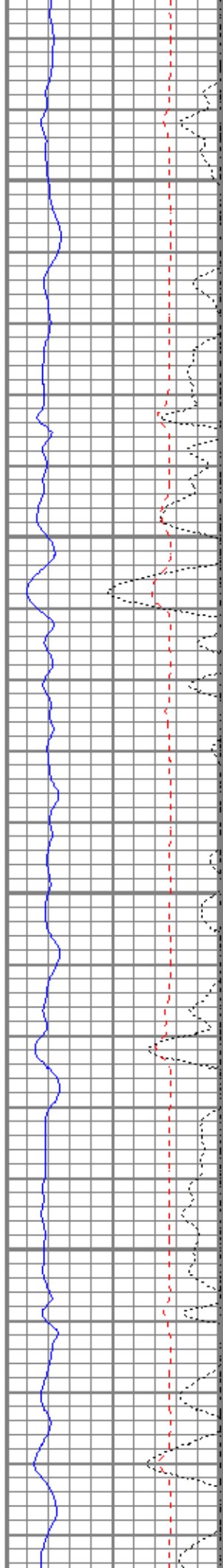
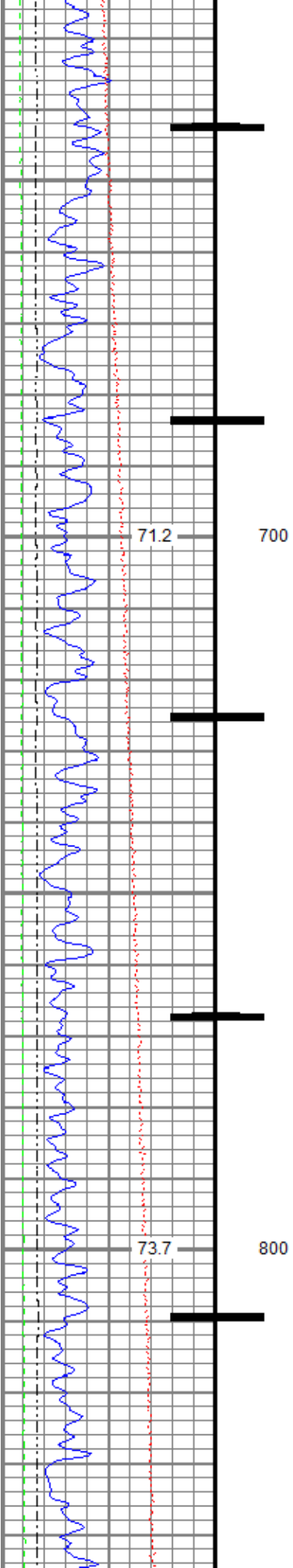
Database File	0512345246_anadarko_robin 9-18hz_rbl_01-03-18\0512345246_anadarko_robin 9-18hz_rbl_01-03-18.db
Dataset Pathname	pass6.2
Presentation Format	ros_radrii
Dataset Creation	Thu Jan 04 10:32:27 2018
Charted by	Depth in Feet scaled 1:240

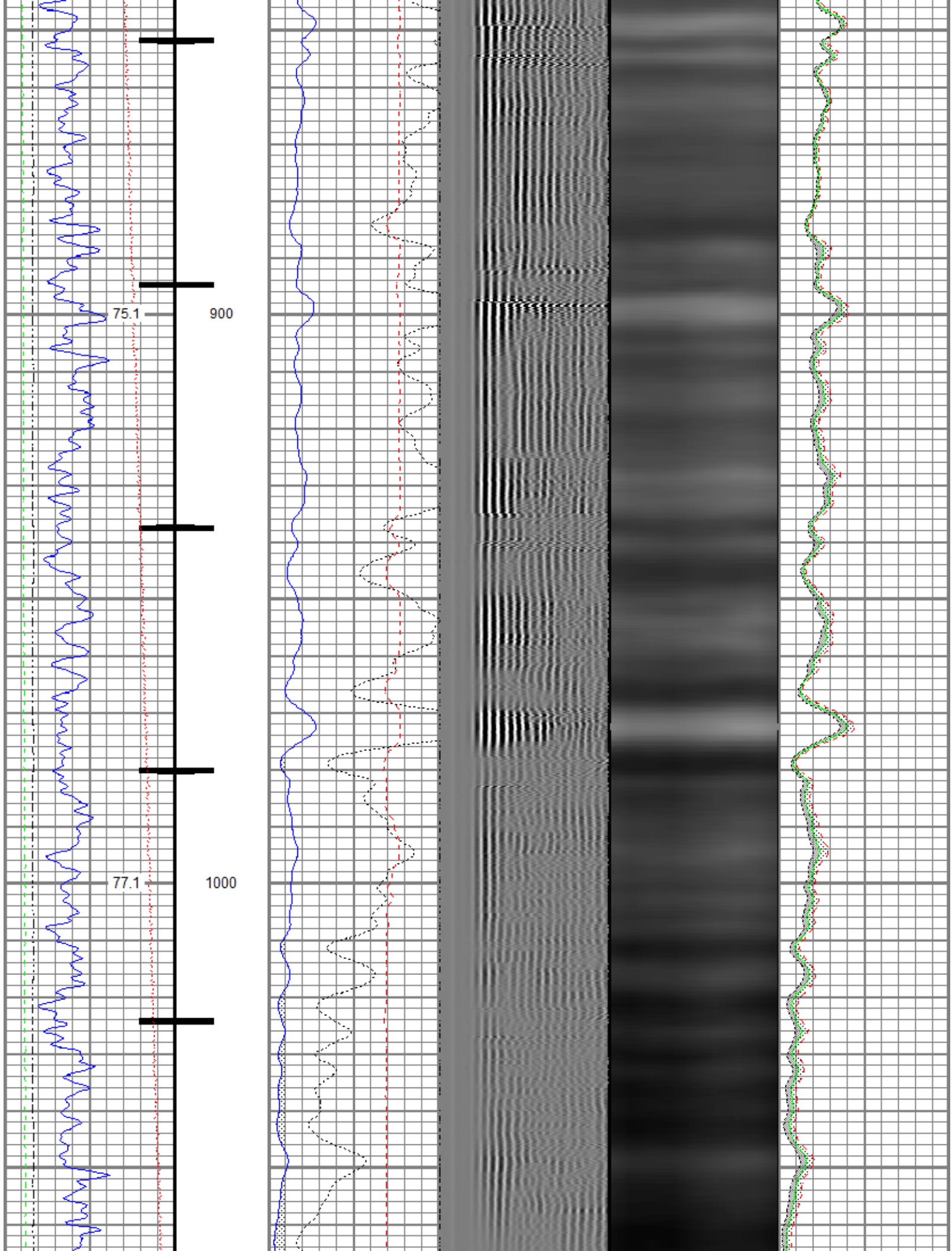
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator		0 (mV) 20			0	100
0 Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed		650 (usec) 150			0	100
-150 (ft/min) 150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

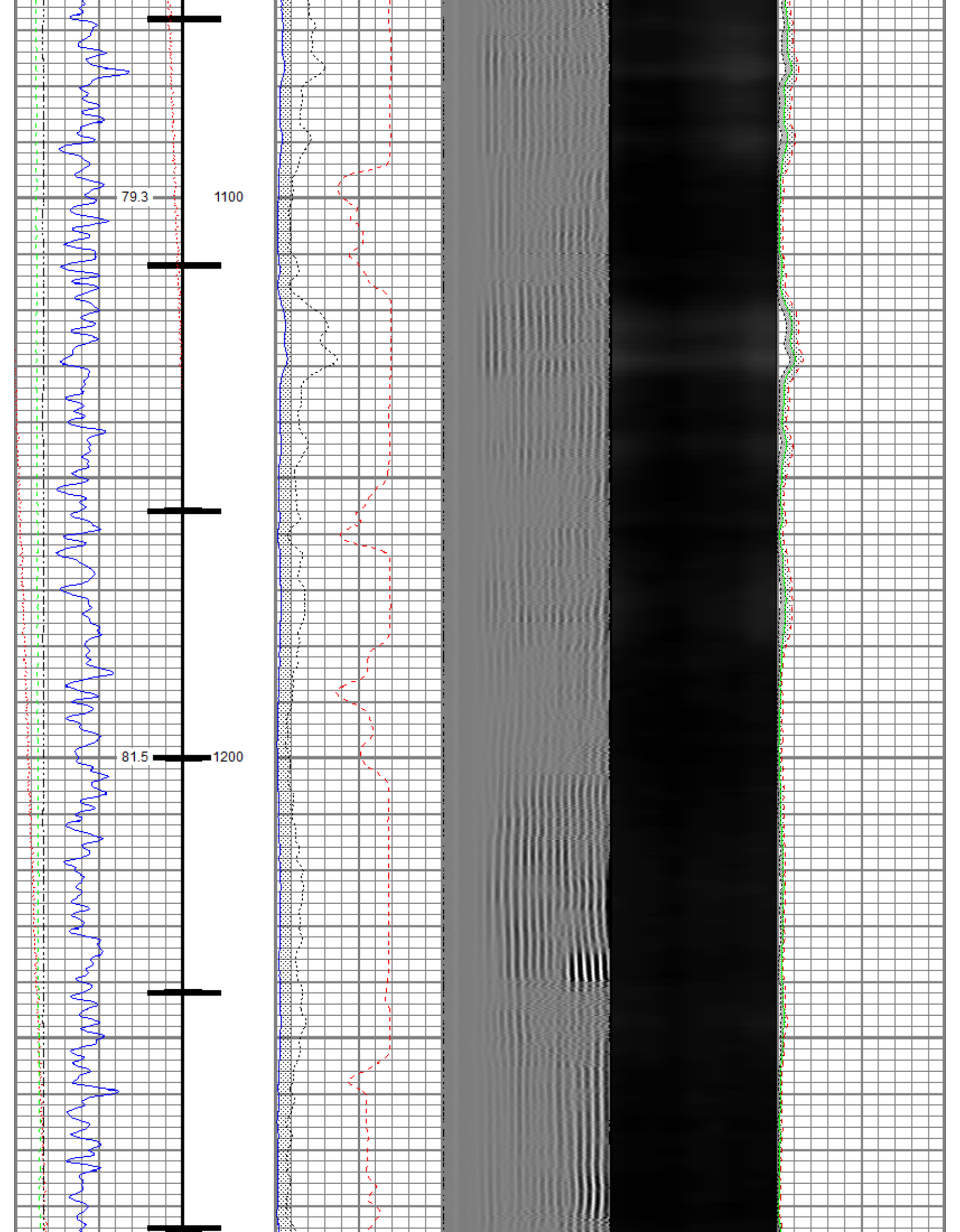


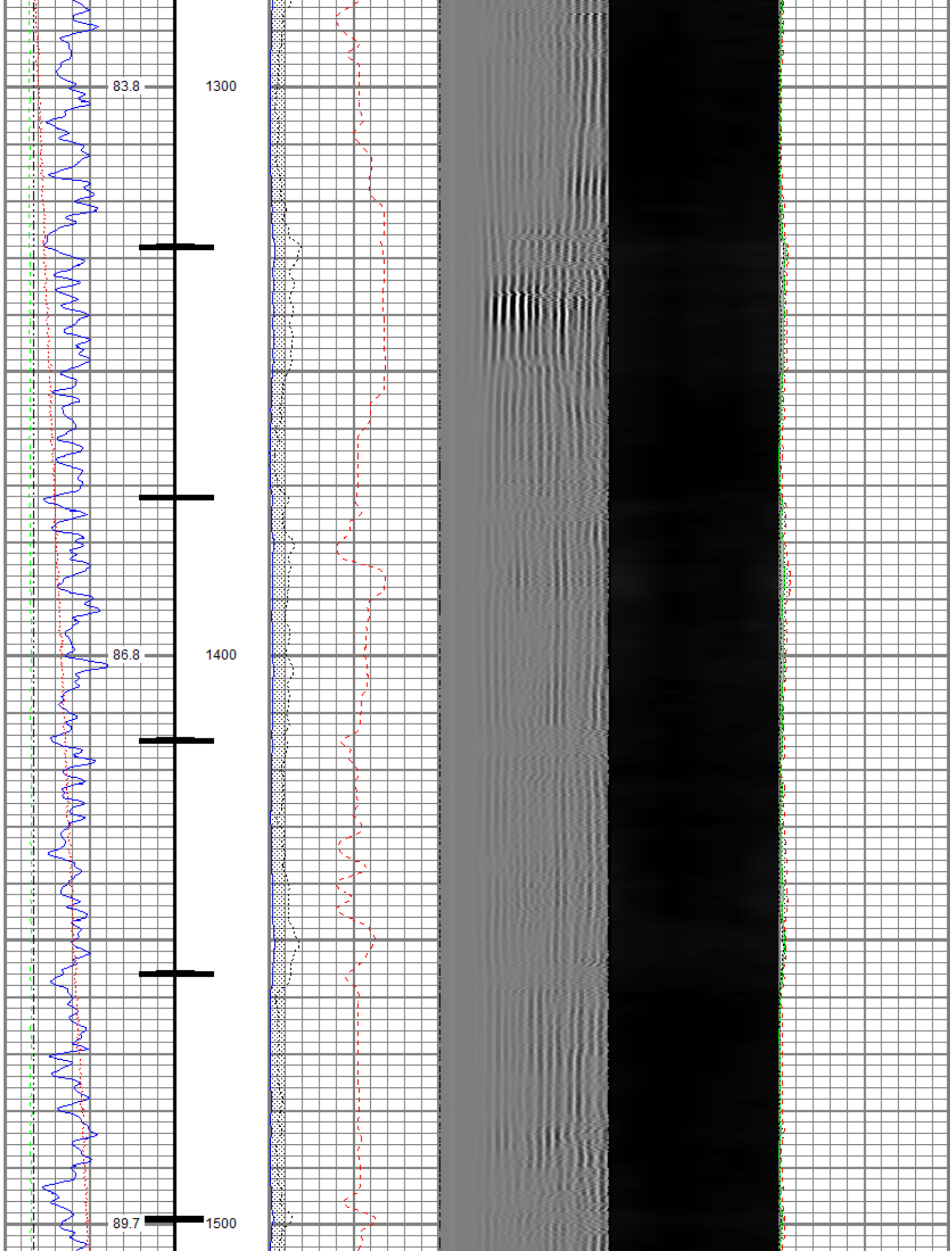


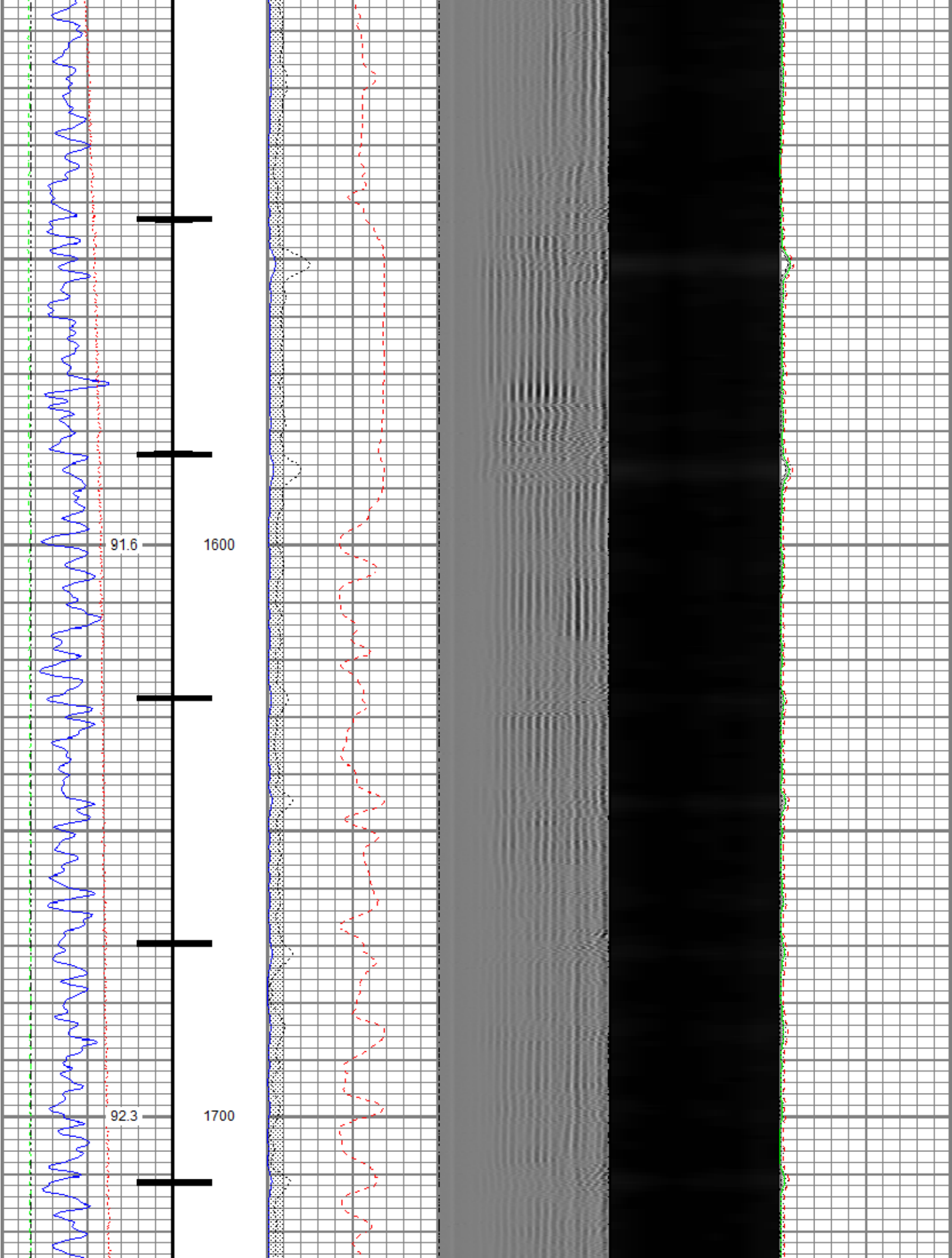


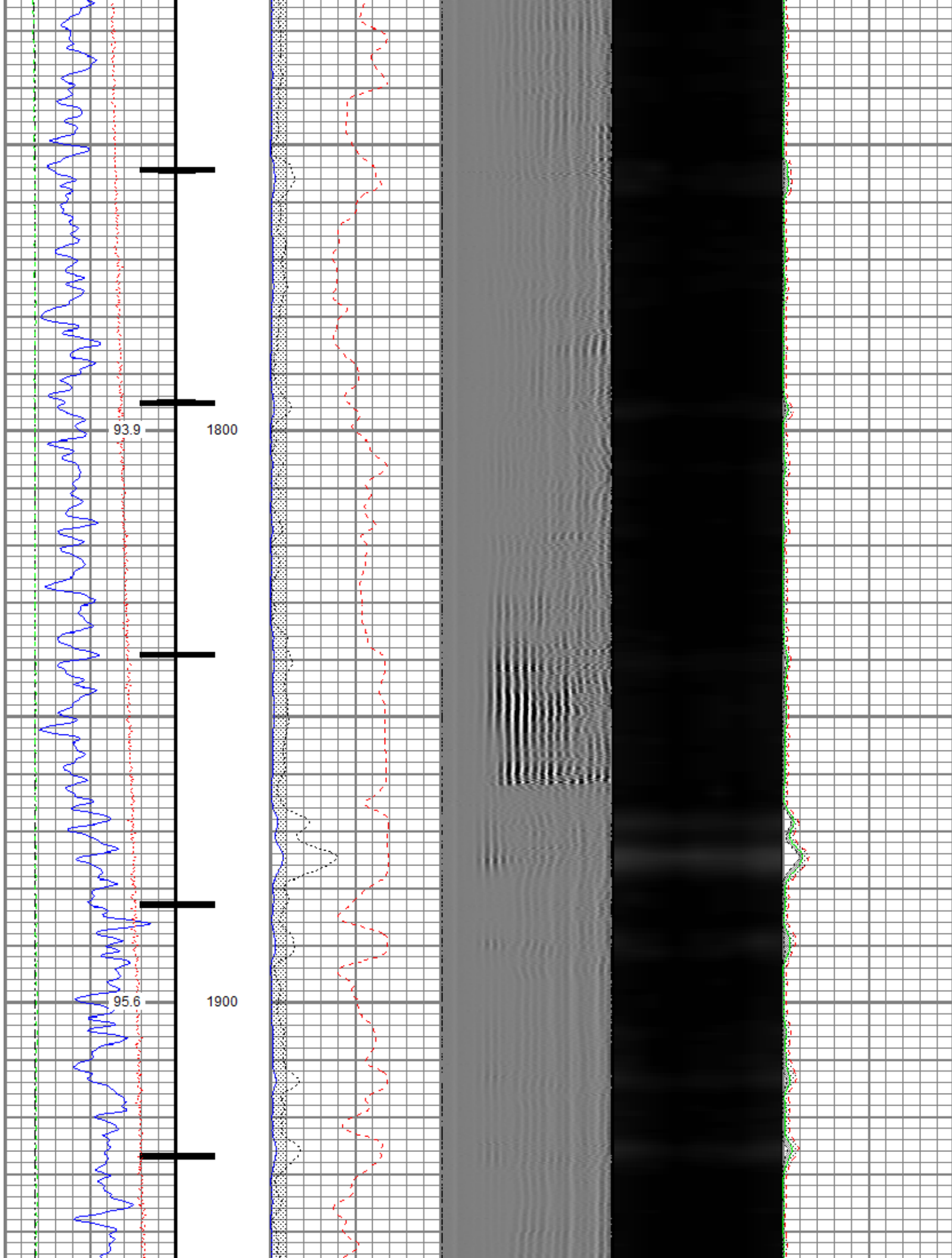


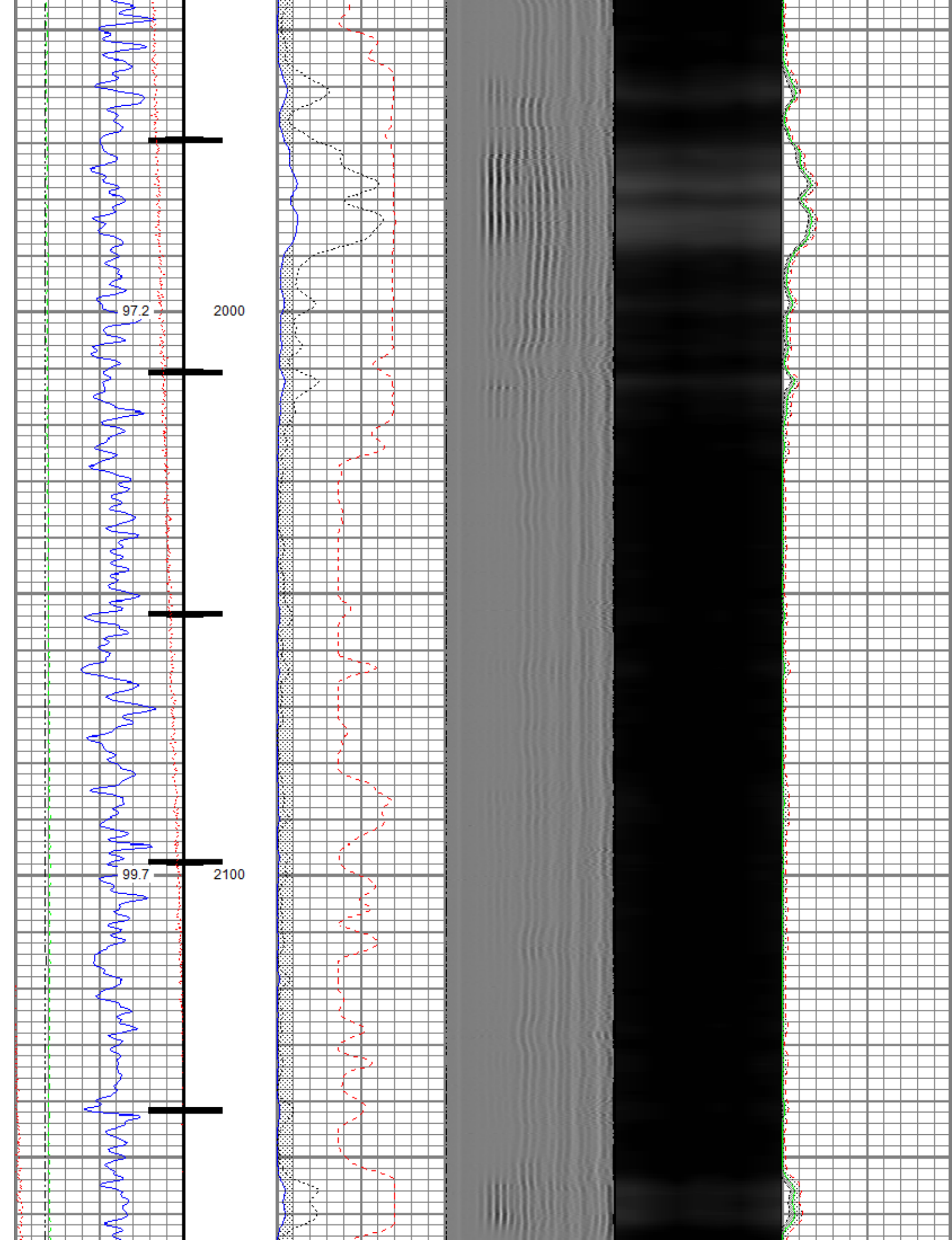


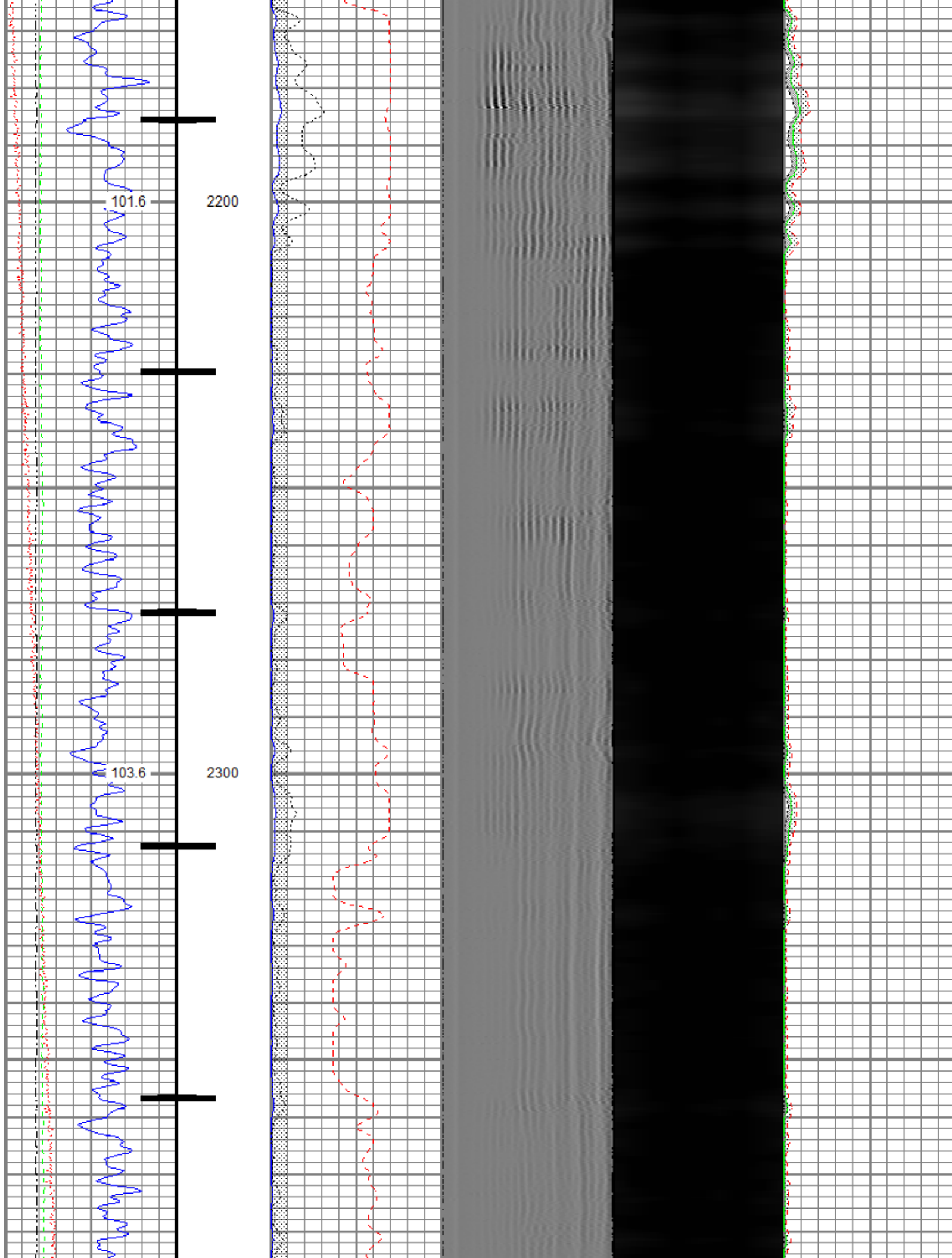


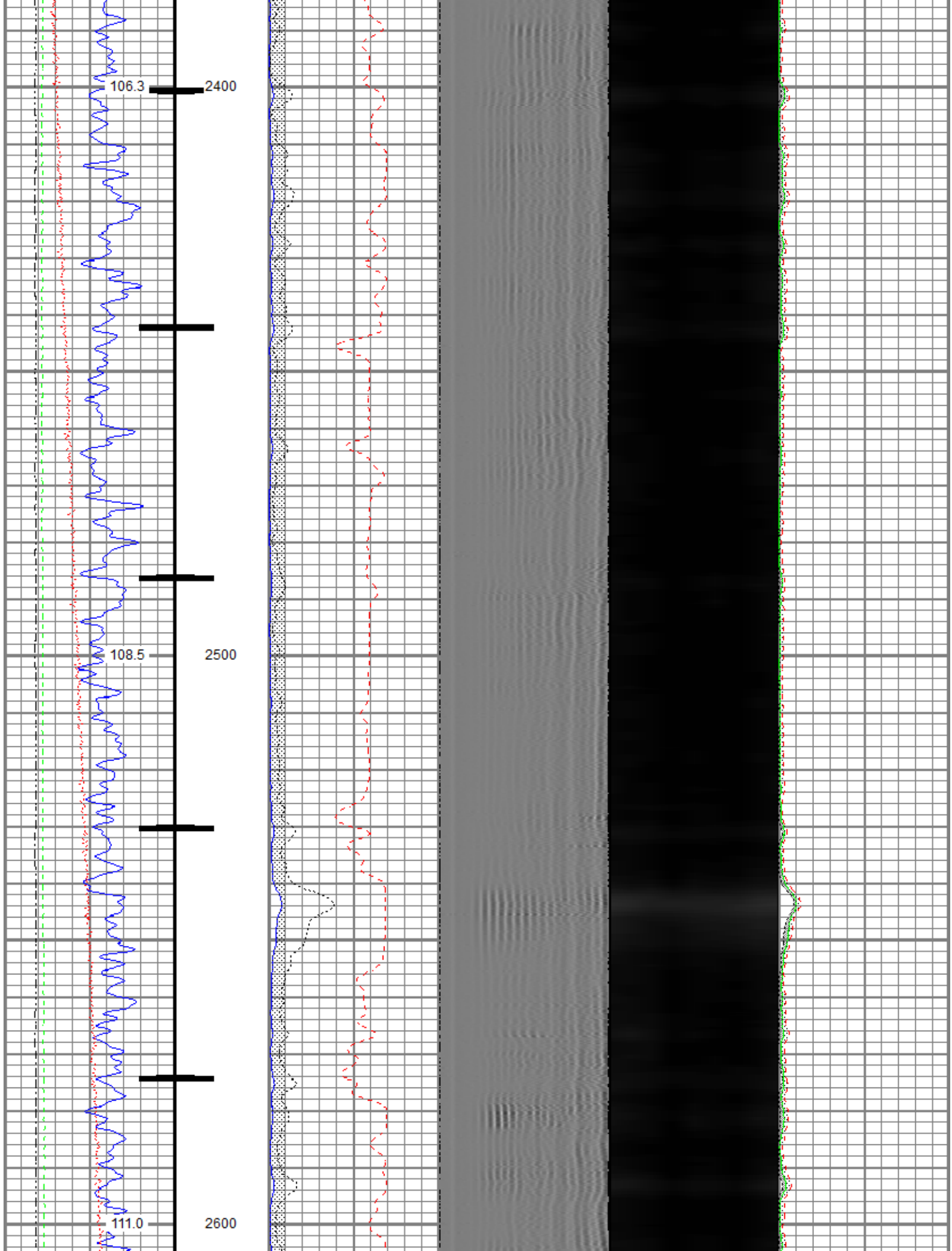


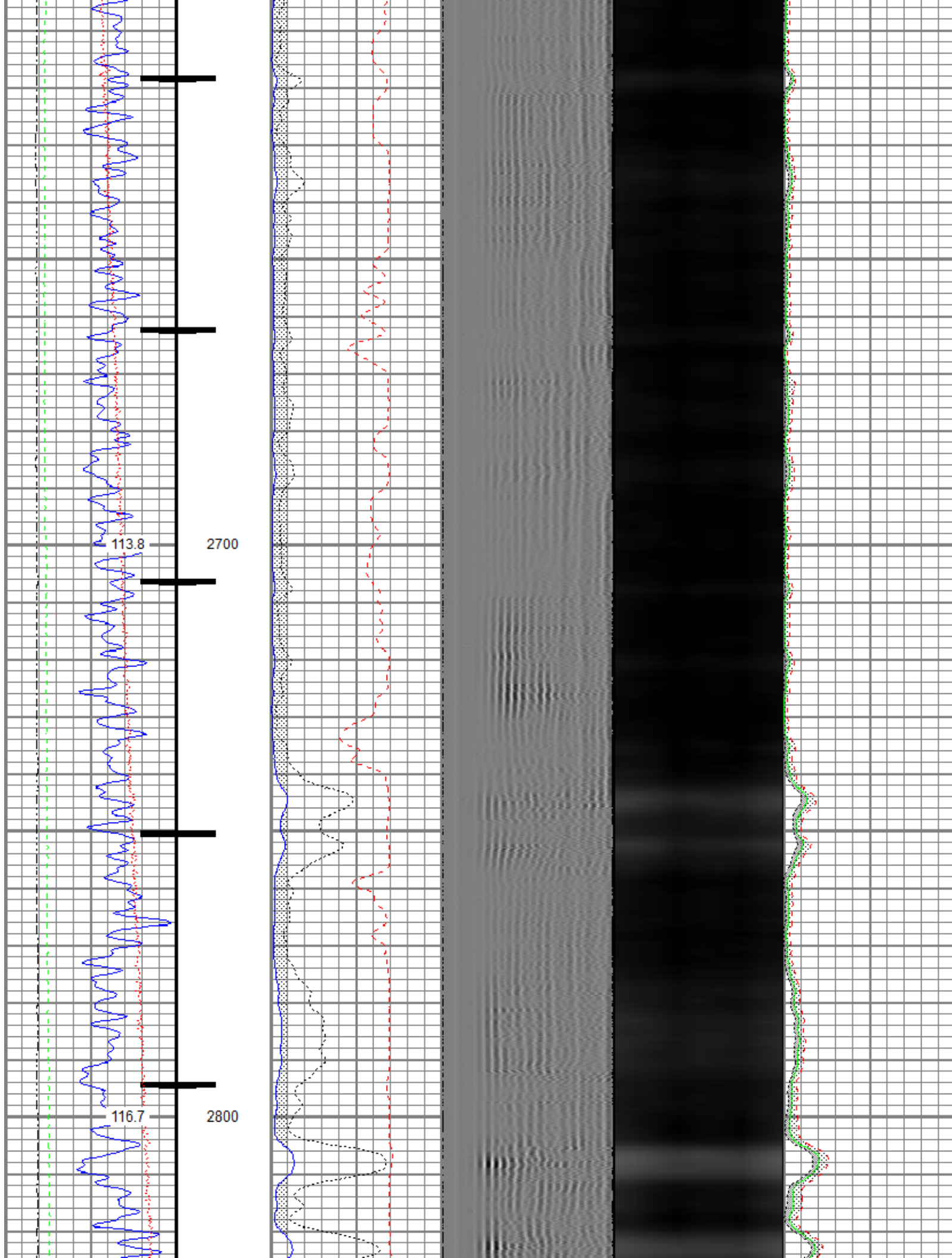


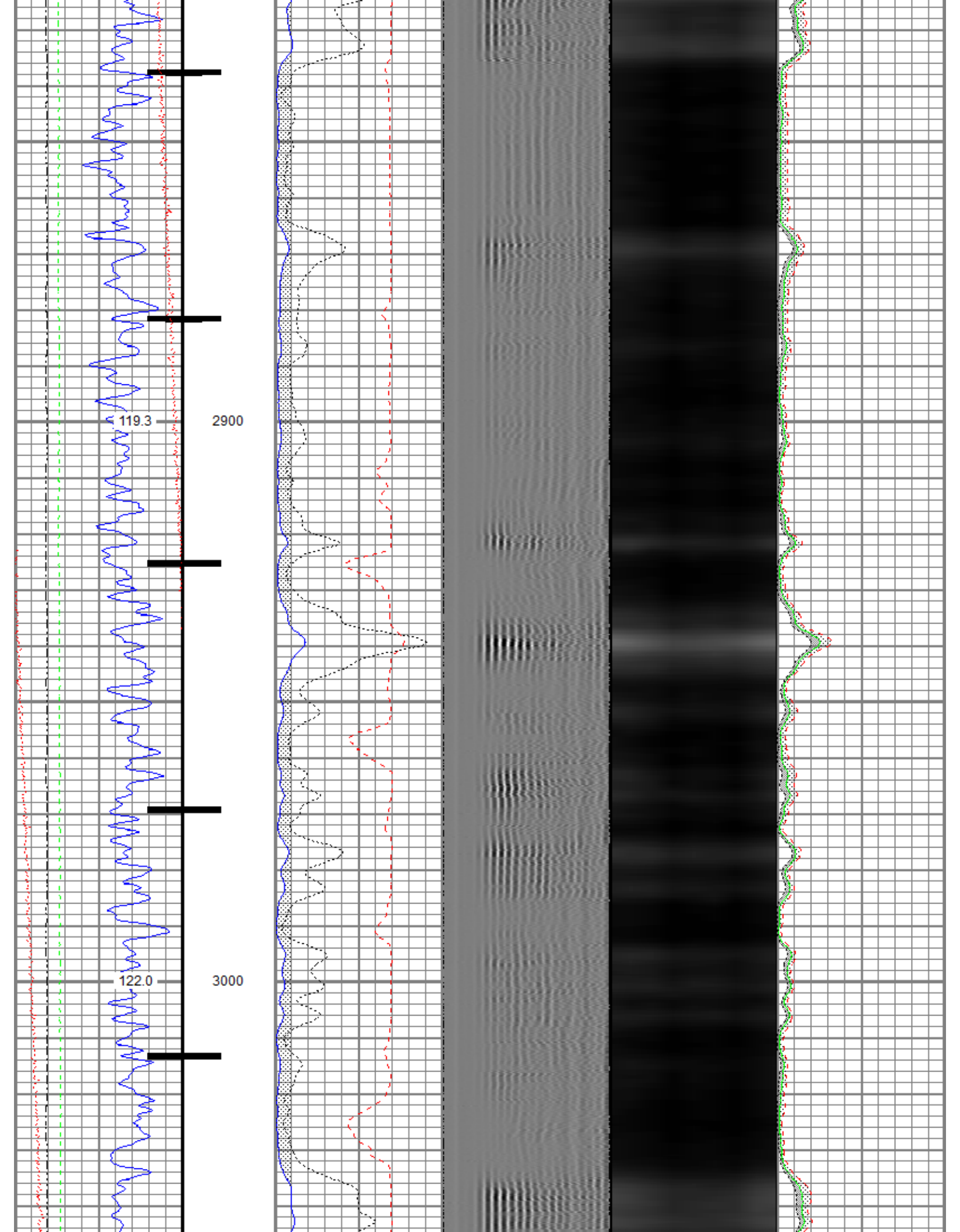


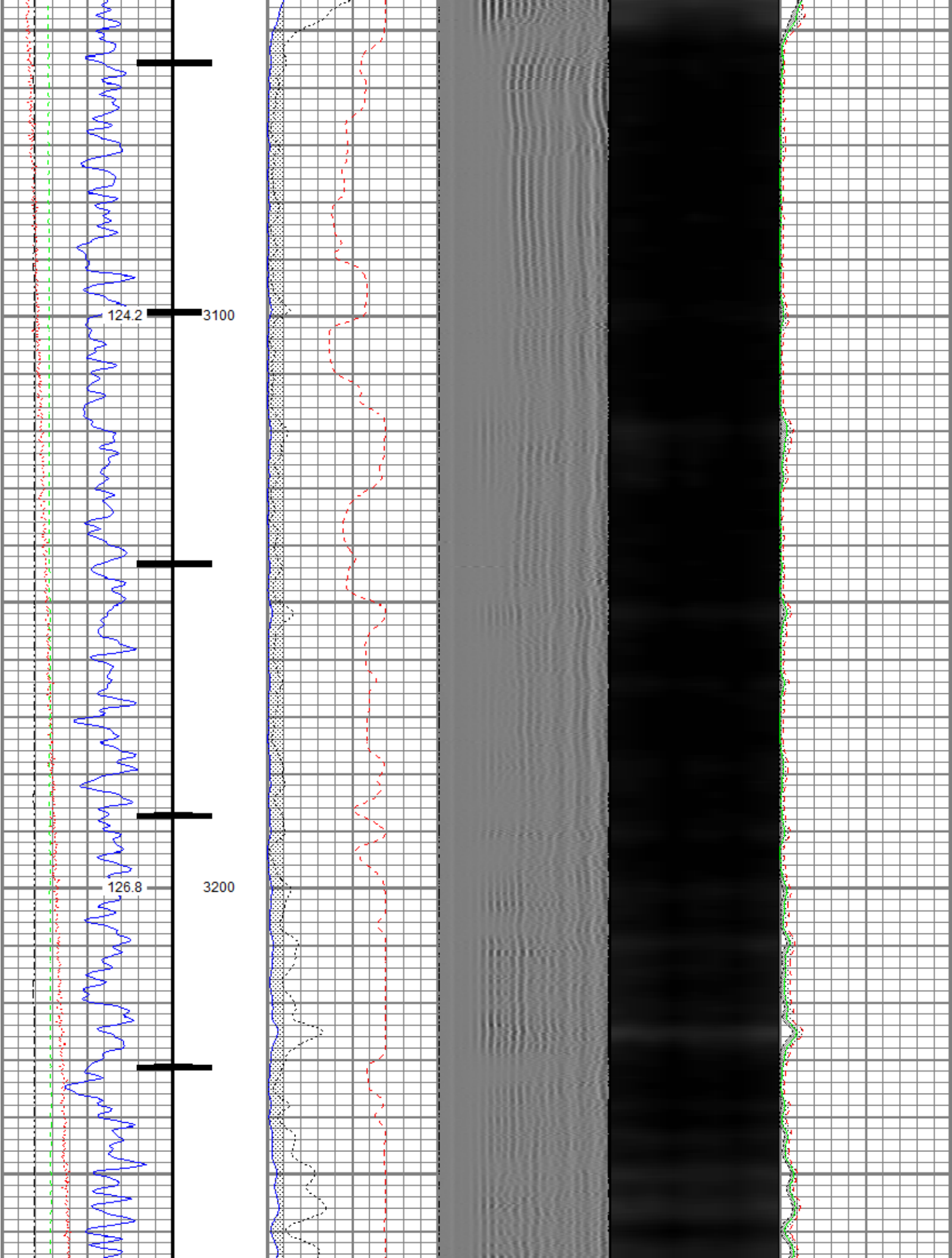


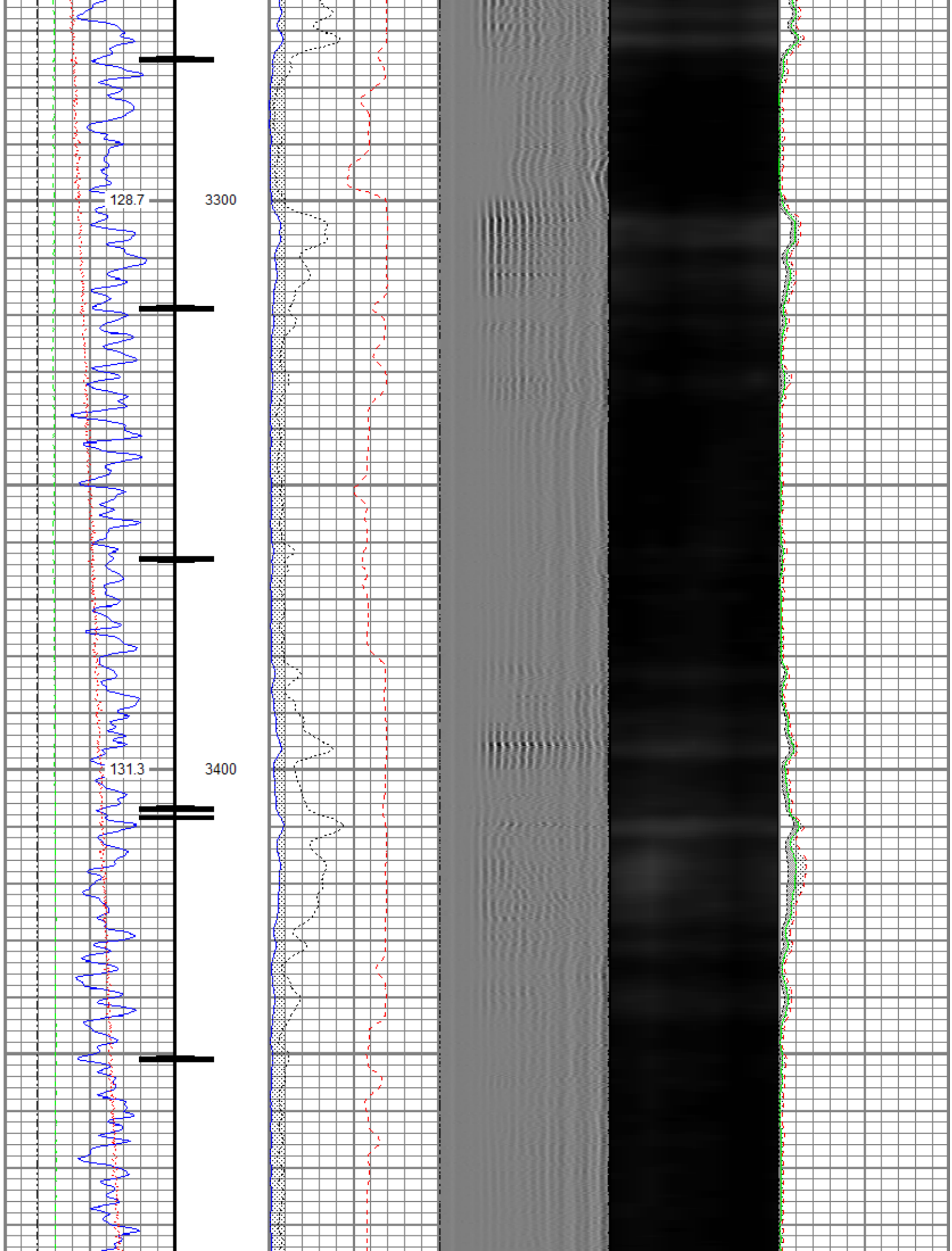


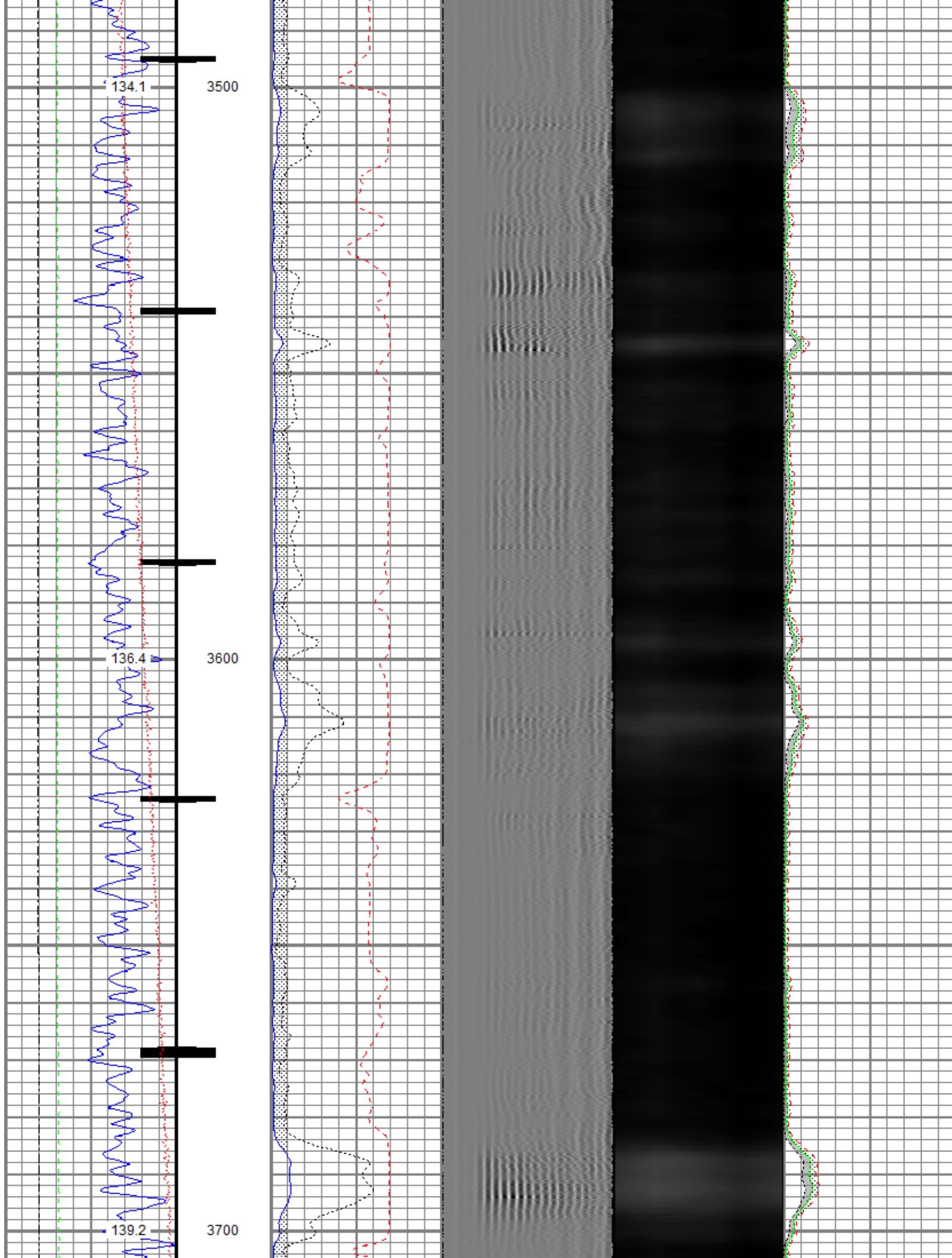


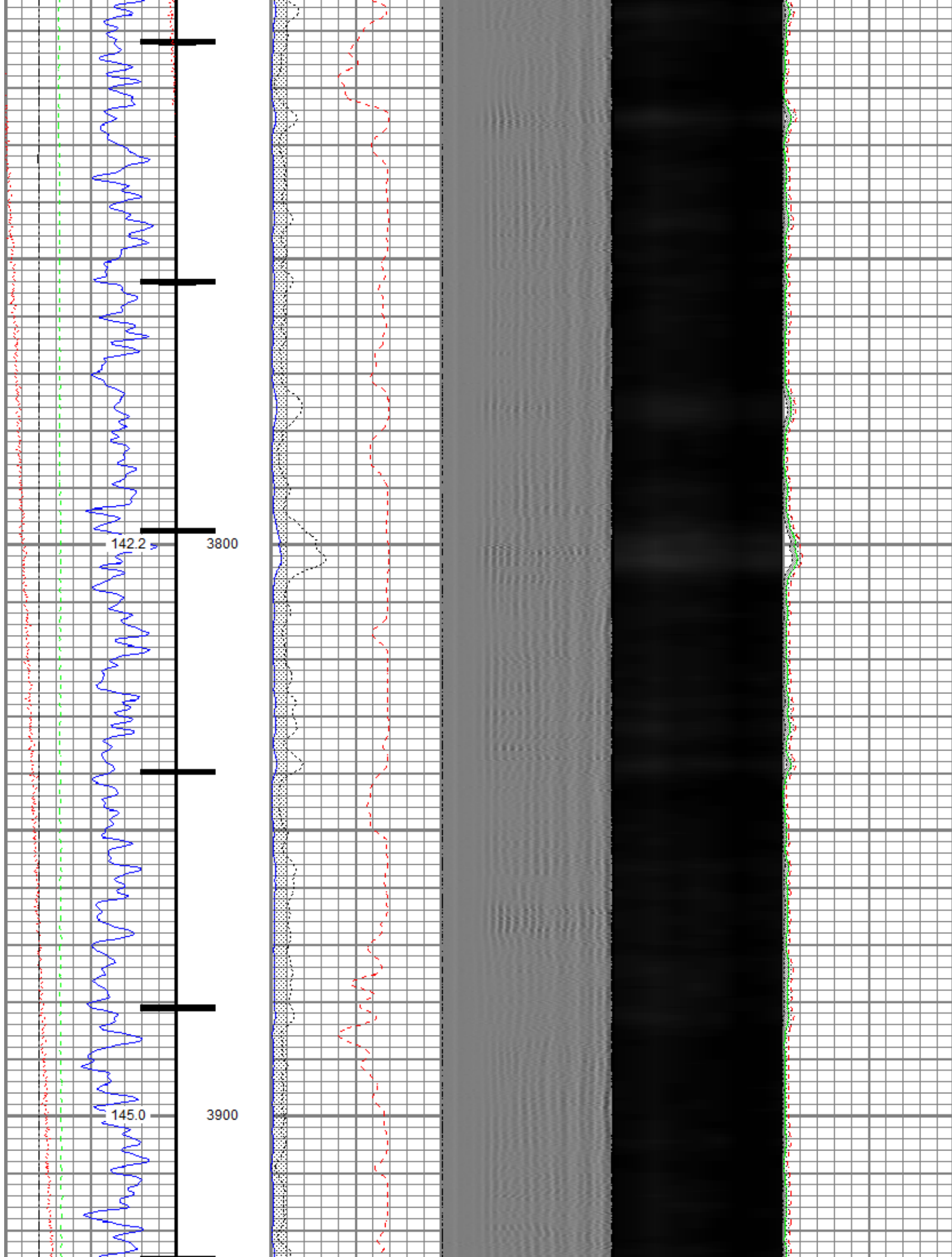


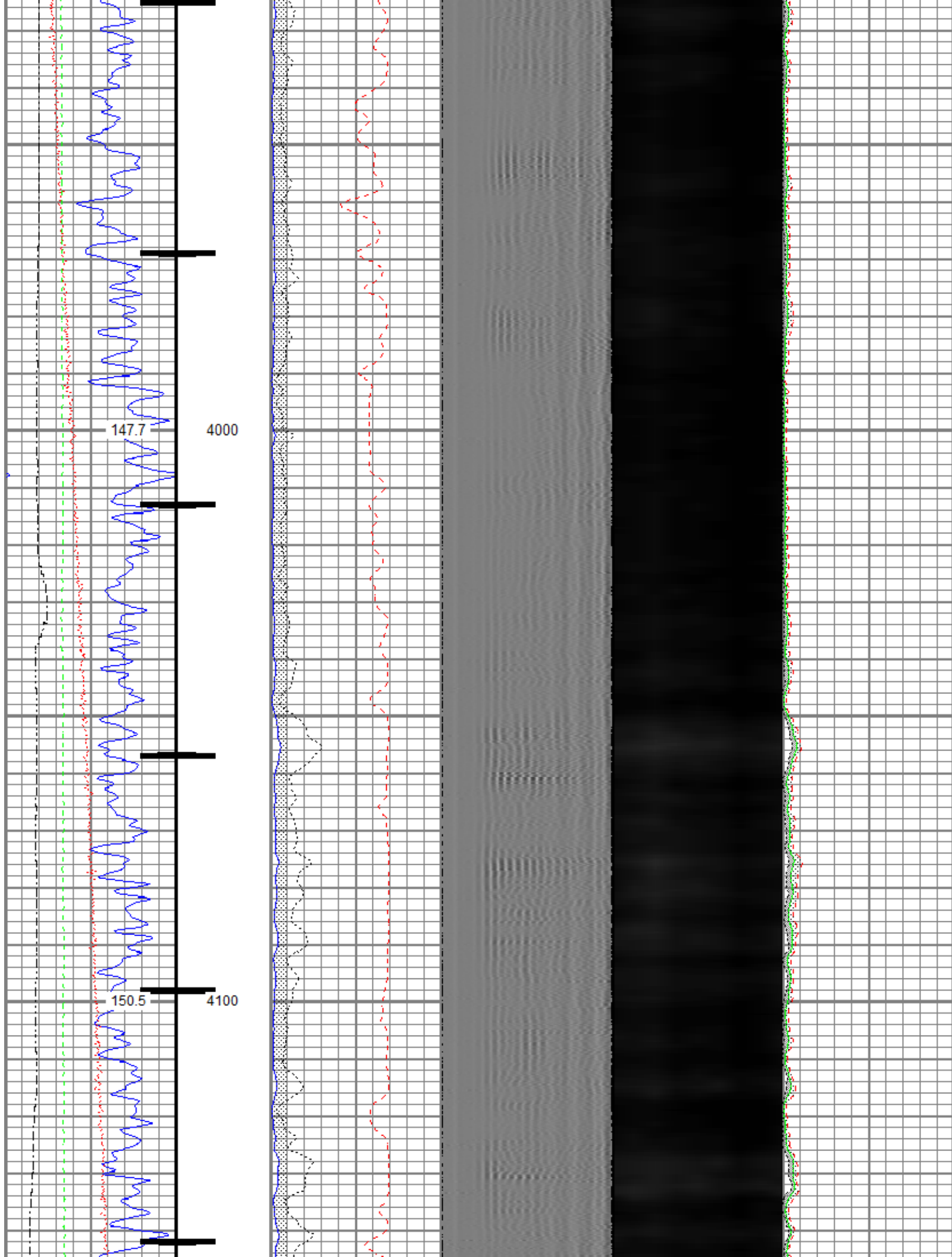


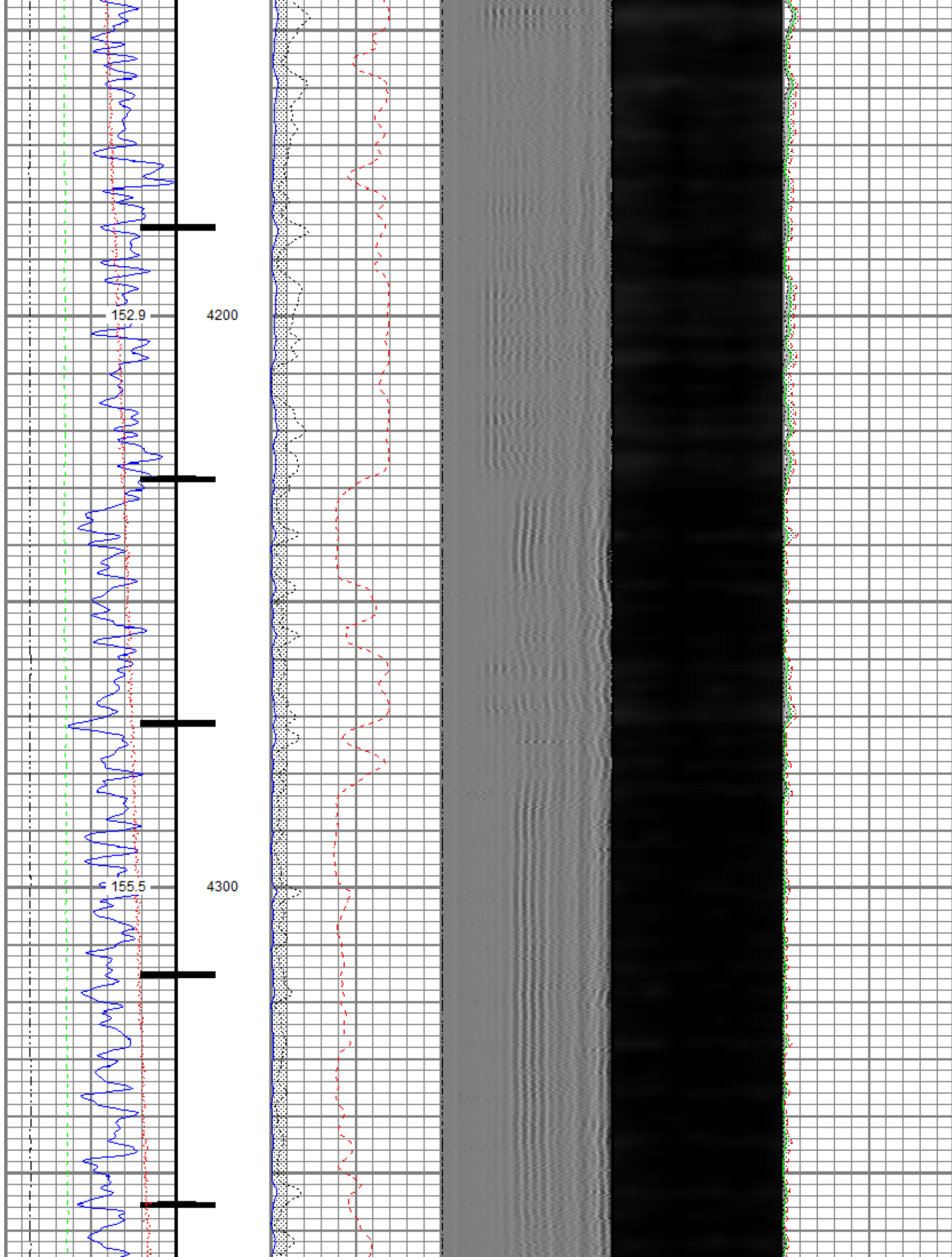


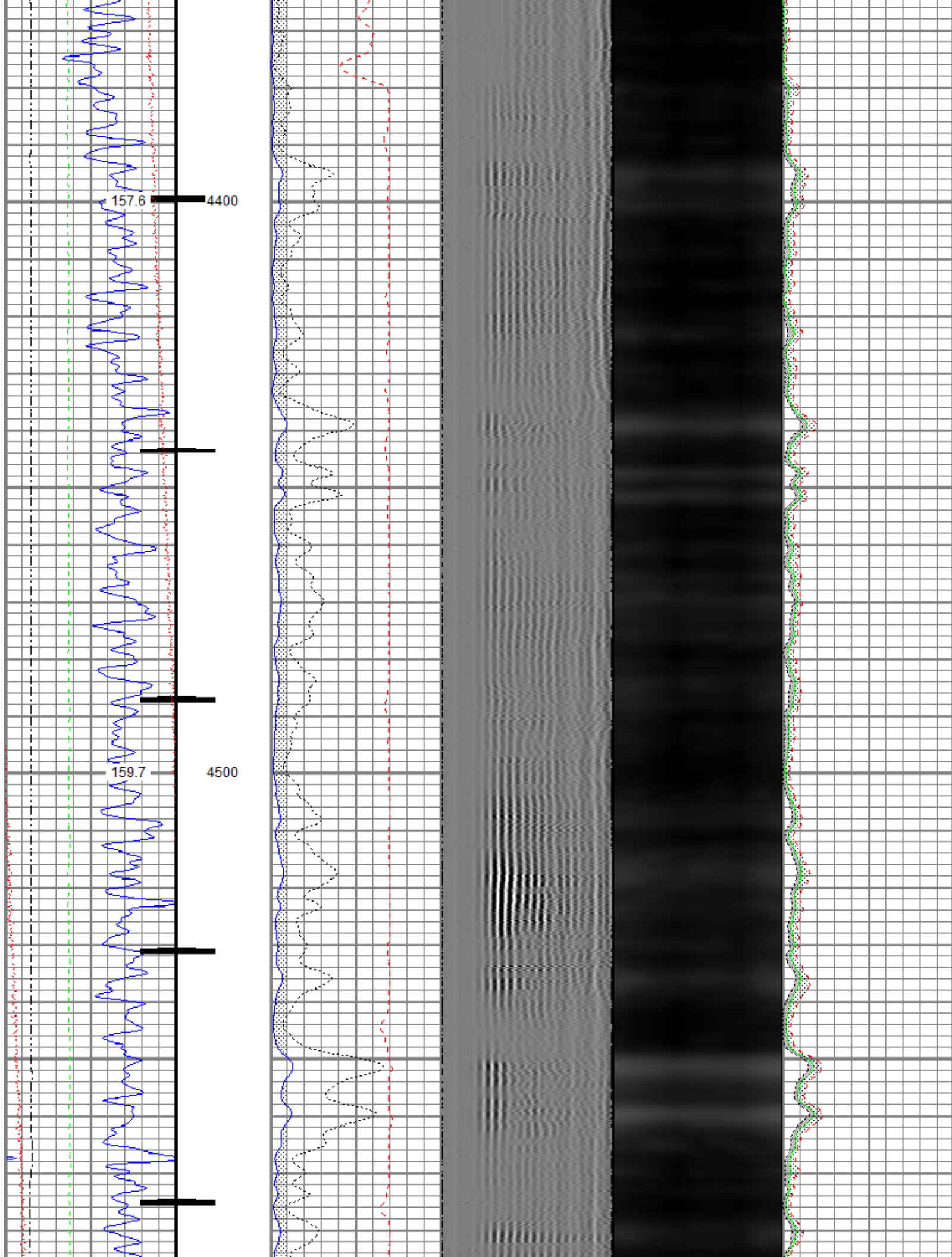


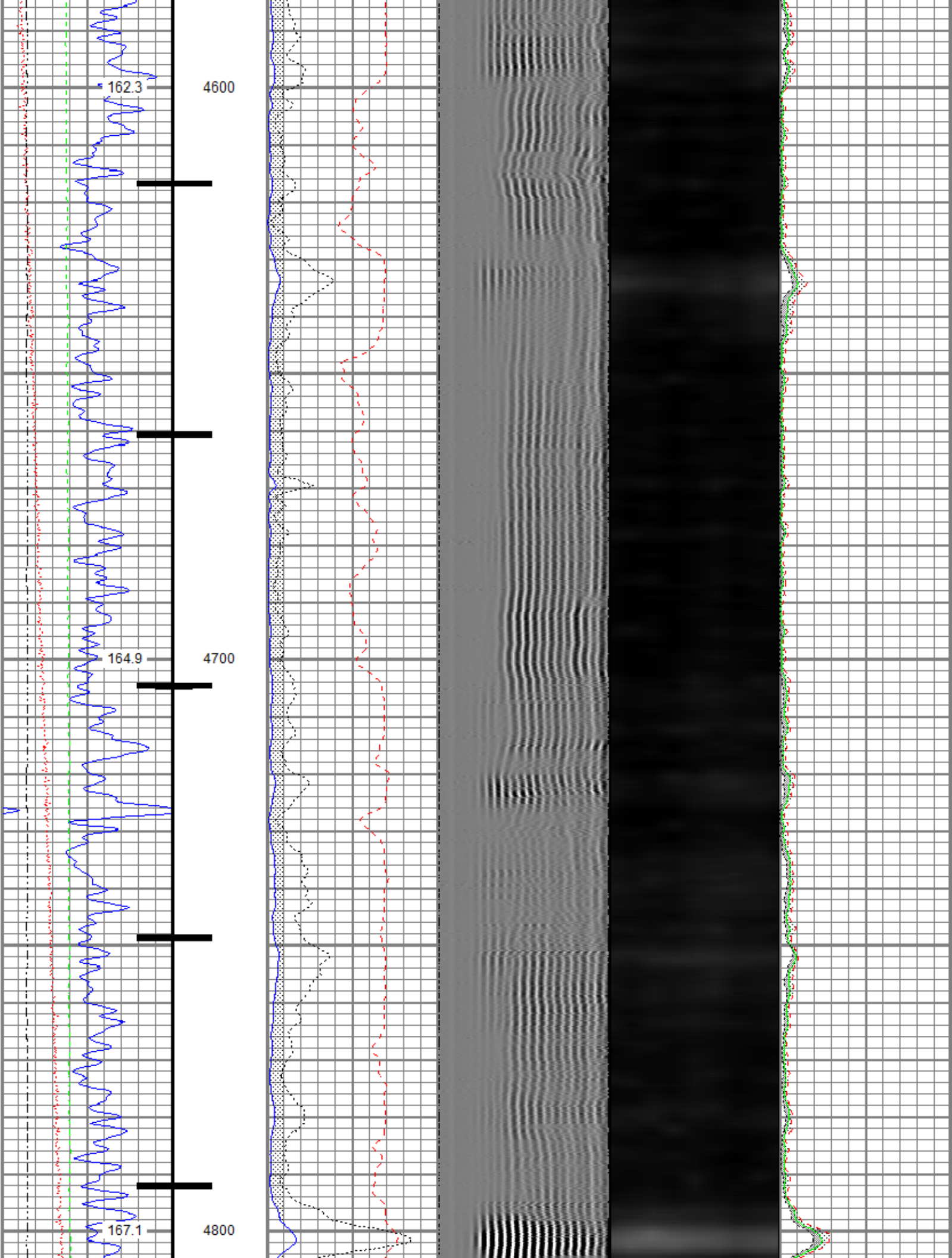


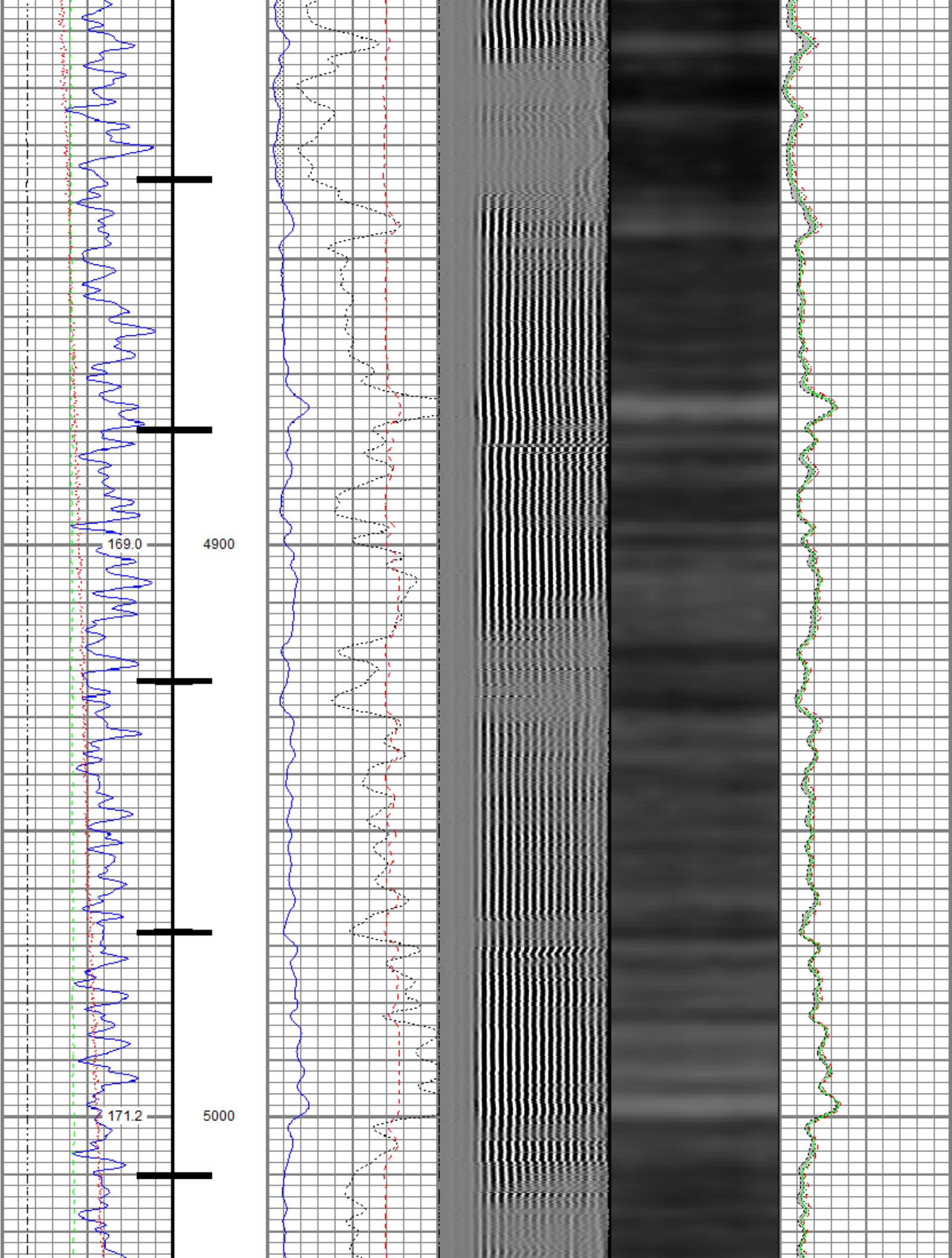


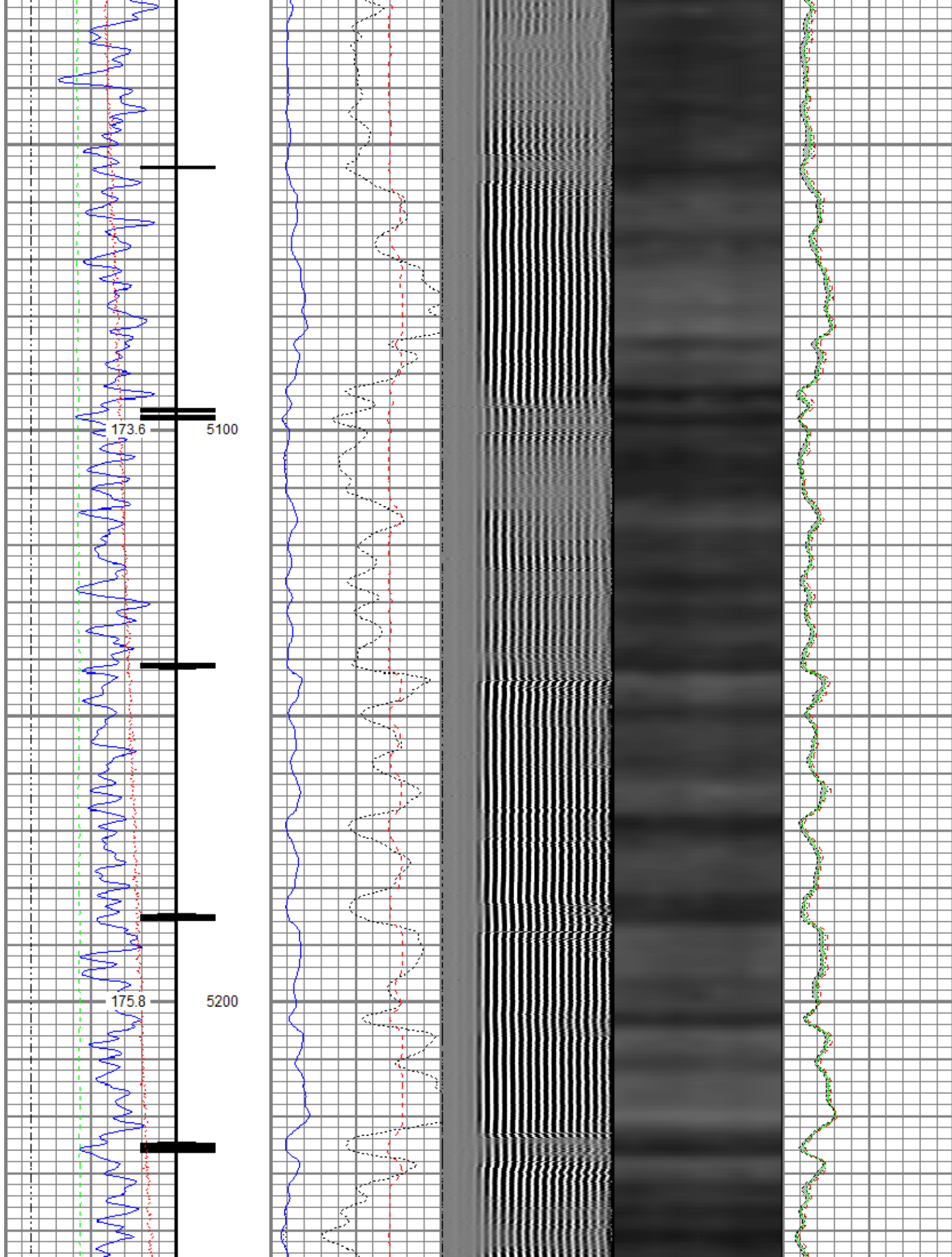


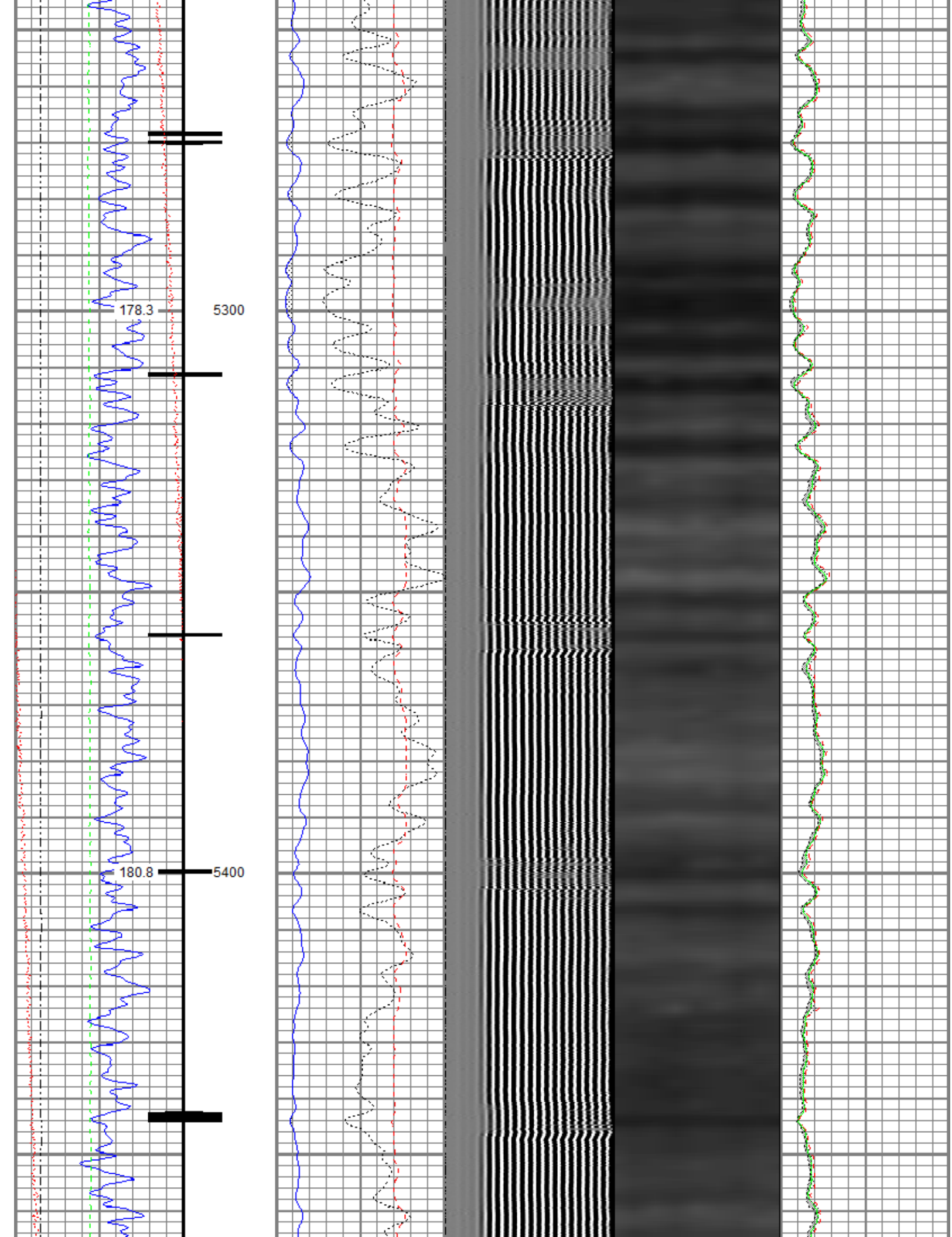


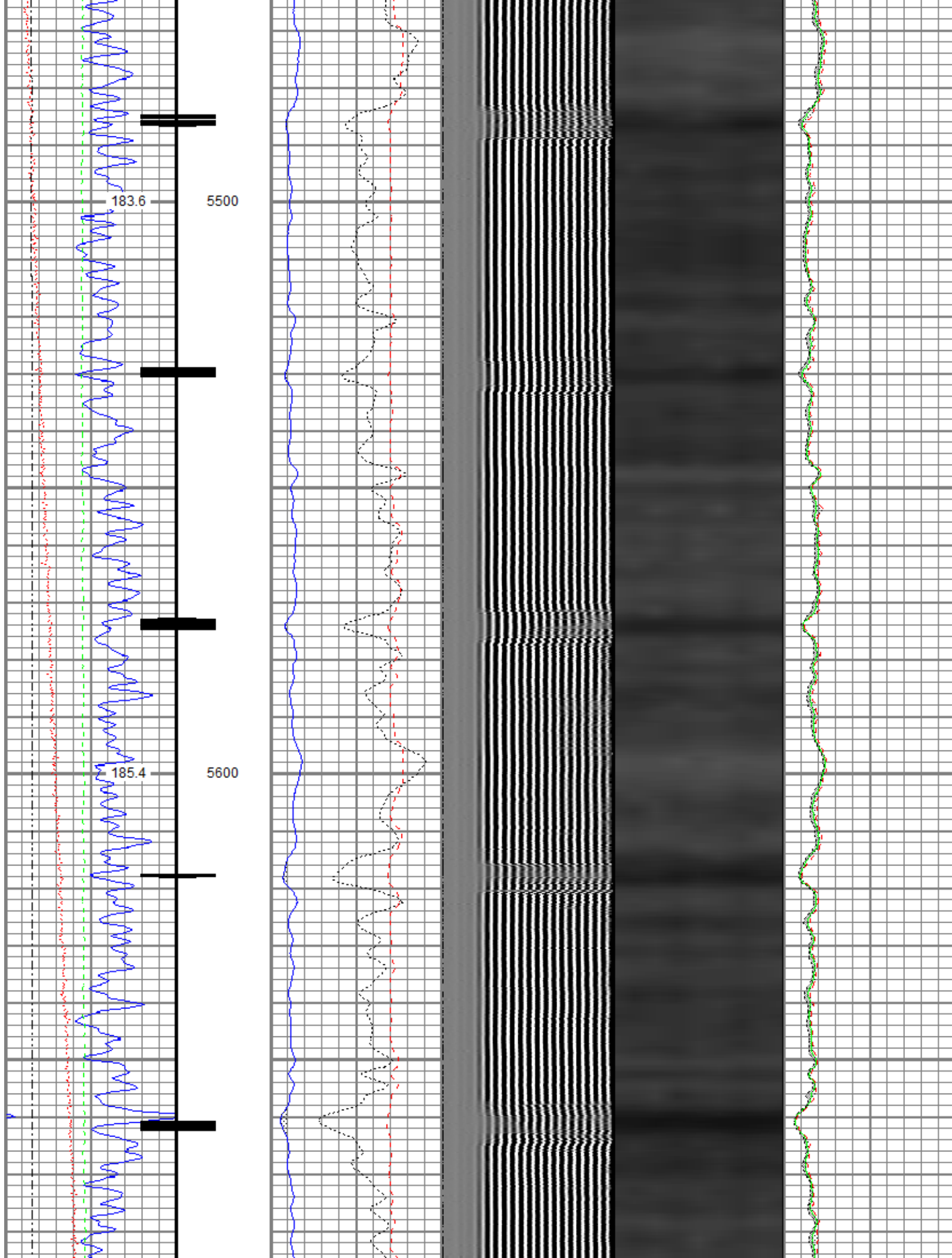


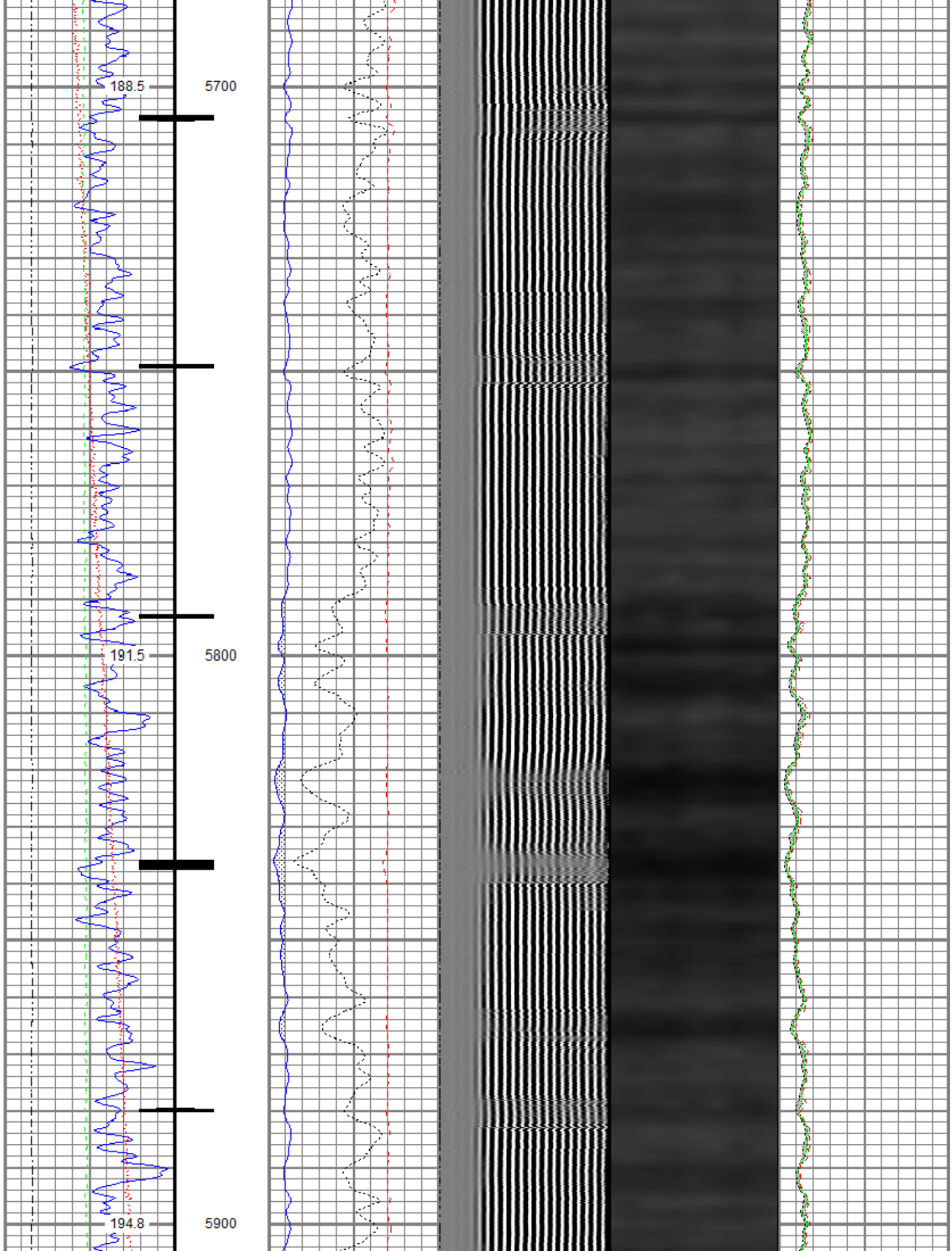


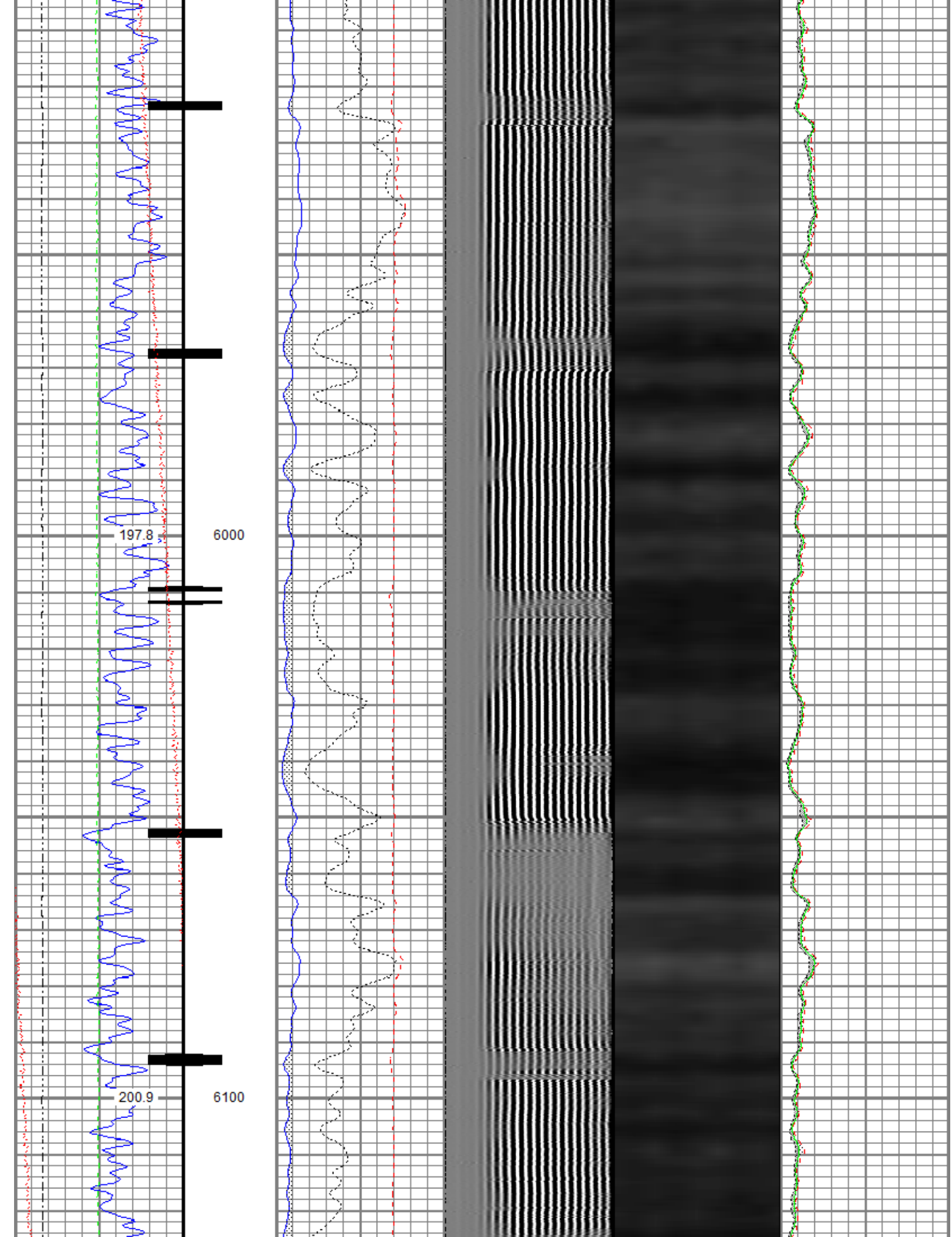


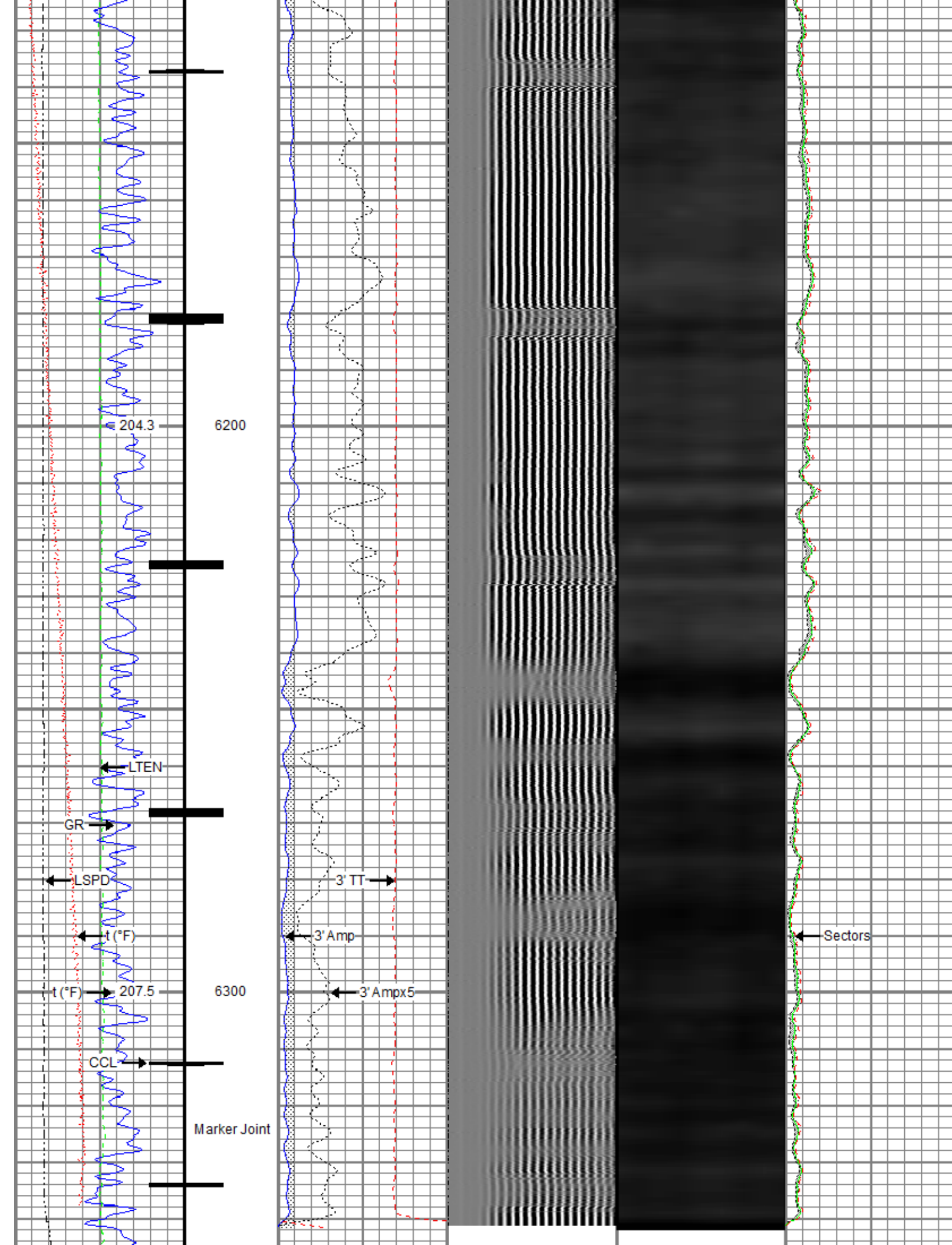












Gamma Ray		0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
0	(GAPI)	120	3' Amplitude x 5	200	1200			Minimum Amplitude	
Casing Collar Locator		0	(mV)	20			0	100	
Temperature (degF)		20	3' Travel Time					Maximum Amplitude	
Line Speed			650	(usec)	150		0	100	
-150	(ft/min)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

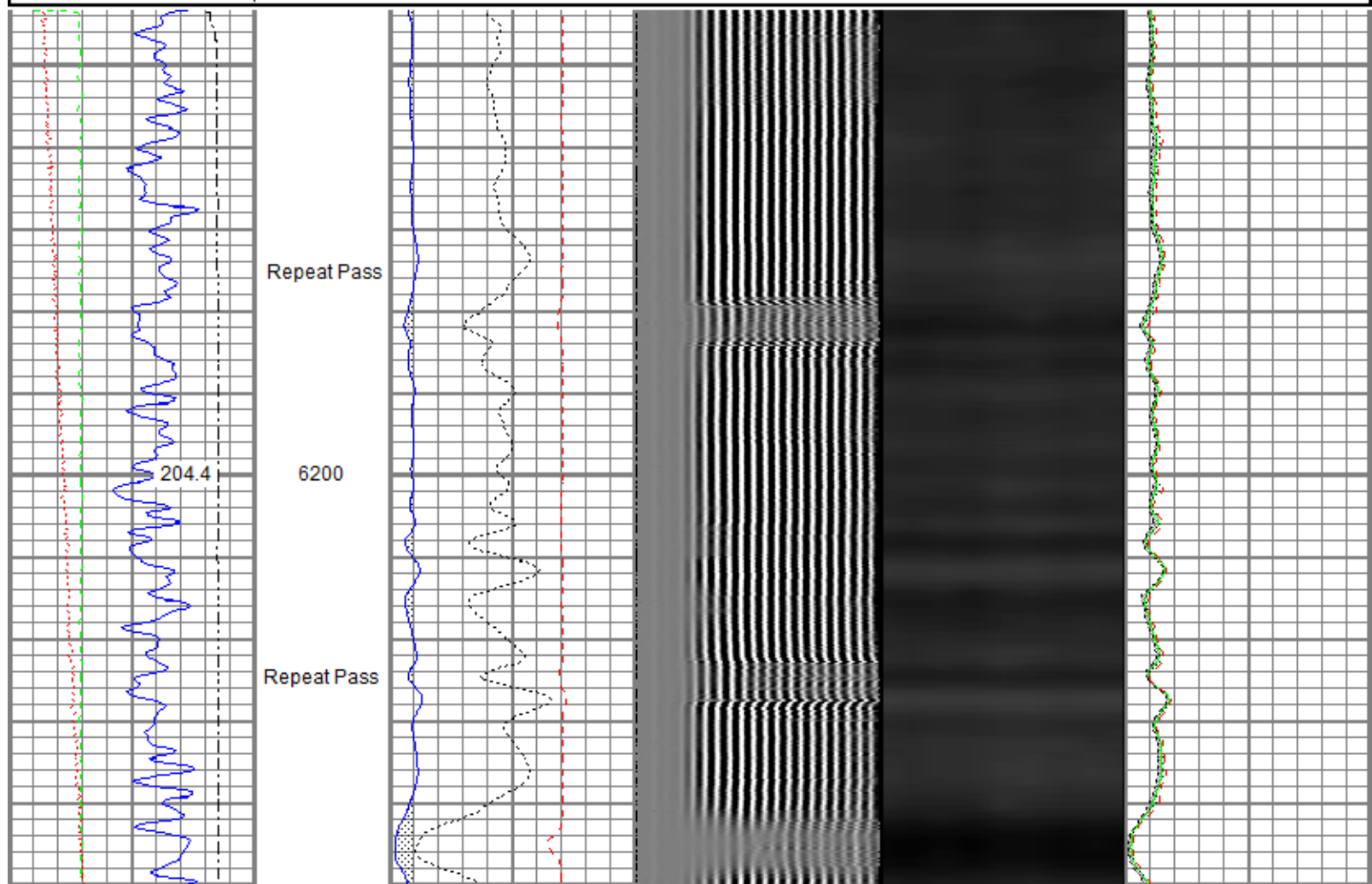


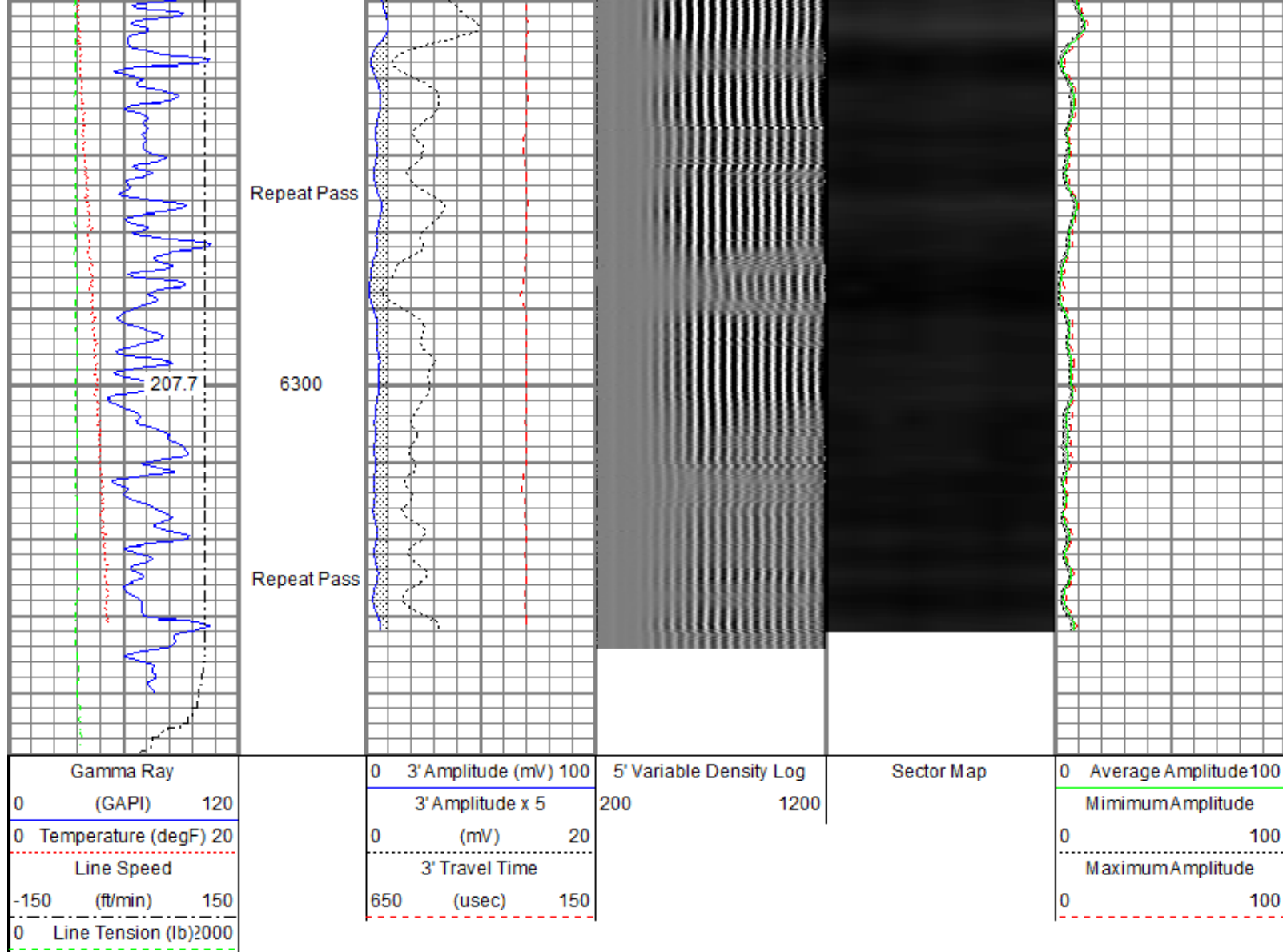
Repeat Pass

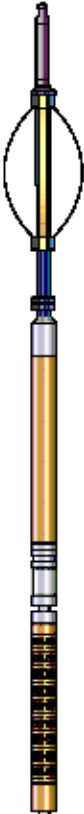
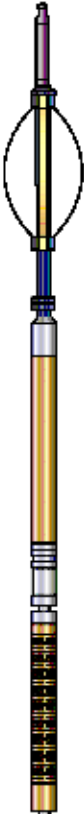
Recorded With 2800 PSI Surface Induced Pressure

Database File 0512345246_anadarko_robin 9-18hz_rbl_01-03-18\0512345246_anadarko_robin 9-18hz_rbl_01-03-18.db
Dataset Pathname pass3.1
Presentation Format ros_radrii
Dataset Creation Thu Jan 04 10:38:22 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	1200			Minimum Amplitude	
Temperature (degF)		20	(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							





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
HeadVolt	19.51		Titan_Electric_Cable_Heads-Titan_1-11/16" Electric Cable Head with 1" Fishing Neck	1.03	1.69	5.40
			Probe_ELine_BowSpring_Centralizer-P_EBSC_2.88 Probe 2-3/4" Electric Inline Bowspring Centralizer		2.75	20.00
Temp	16.72					
WVFS8	14.55		Probe_RADII-C-P_RBT_2750 (FW1305-096) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00
WVFS7	14.55					
WVFS6	14.55					

WVFS5	14.55					
WVFS4	14.55					
WVFS3	14.55					
WVFS2	14.55					
WVFS1	14.55					
WVFCAL	14.55					
WVF3FT	14.55					
WVF5FT	13.55					
HEADVOLT	10.30					
				Probe_ELine_BowSpring_Centralizer-P_EBSC_2.88	2.75	20.00
				Probe 2-3/4" Electric Inline Bowspring Centralizer		
DCCL	6.51					
CCL	6.51					
GR	5.30			Probe_GR_CCL-P_CGR_2750_S (FW1212-026)	2.75	55.00
				Probe 2-3/4" Digital CCL / Gamma Ray Combined		
				Probe_ELine_BowSpring_Centralizer-P_EBSC_2.88	2.75	20.00
				Probe 2-3/4" Electric Inline Bowspring Centralizer		
Dataset: 0512345246_Anadarko_Robin 9-18HZ_RBL_01-03-18.db: field/well/run1/pass1 Total length: 23.40 ft Total weight: 225.40 lb O.D.: 2.75 in						

Calibration Report	
Database File	C:\ProgramData\Warrior\Data\0512345246_Anadarko_Robin 9-18HZ_RBL_01-03-18\0512345246_Anadarko_Robin 9-18HZ_R
Dataset Pathname	pass1
Dataset Creation	Wed Jan 03 12:07:54 2018

Gamma Ray Calibration Report		
Serial Number:	FW1212-026	
Tool Model:	P_CGR_2750_S	
Performed:	Sat Feb 06 11:32:54 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.6	cps
Sensitivity:	0.6061	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1305-096	
Tool Model:	P_RBT_2750	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	11.000	ft

Master Calibration performed Wed Jan 03 12:03:50 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.019	0.510	0.800	71.921	144.902	-1.922
CAL	0.646	0.651				
5'	0.015	0.249	0.800	71.921	303.719	-3.757
SUM						
S1	0.015	0.522	0.000	100.000	197.217	-2.997
S2	0.021	0.498	0.000	100.000	209.530	-4.358
S3	0.017	0.481	0.000	100.000	215.154	-3.588
S4	0.017	0.474	0.000	100.000	219.096	-3.830
S5	0.011	0.493	0.000	100.000	207.450	-2.244
S6	0.010	0.523	0.000	100.000	194.959	-1.906
S7	0.020	0.550	0.000	100.000	188.517	-3.714
S8	0.017	0.554	0.000	100.000	186.326	-3.137

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.646	0.651	1.000	0.000

Air Zero Calibration, performed Wed Jan 03 11:51:21 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	



Company Kerr-McGee Oil & Gas Onshore, L.P.
Well Robin 9-18HZ
Field Wattenberg
County Weld
State Colorado