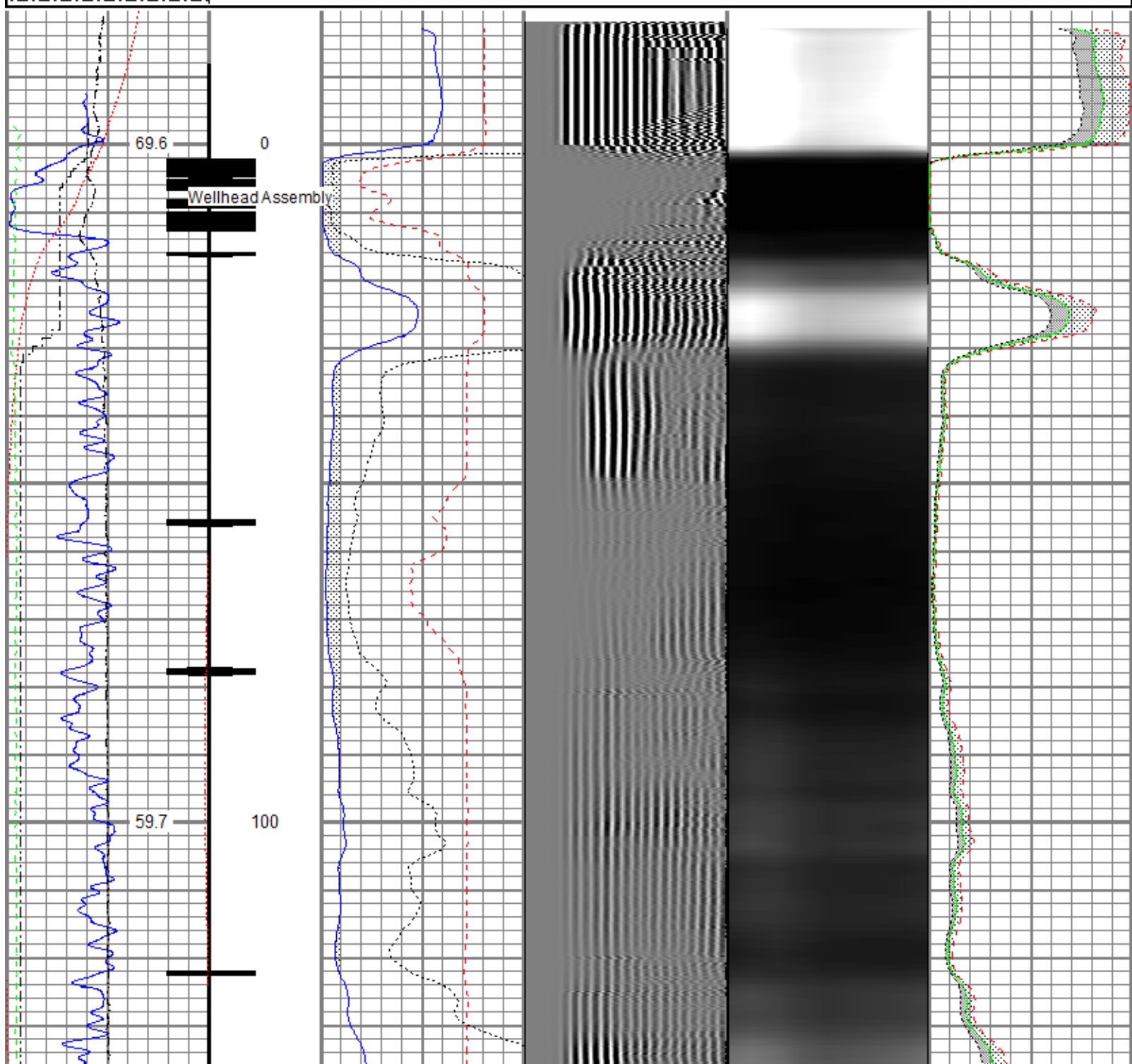


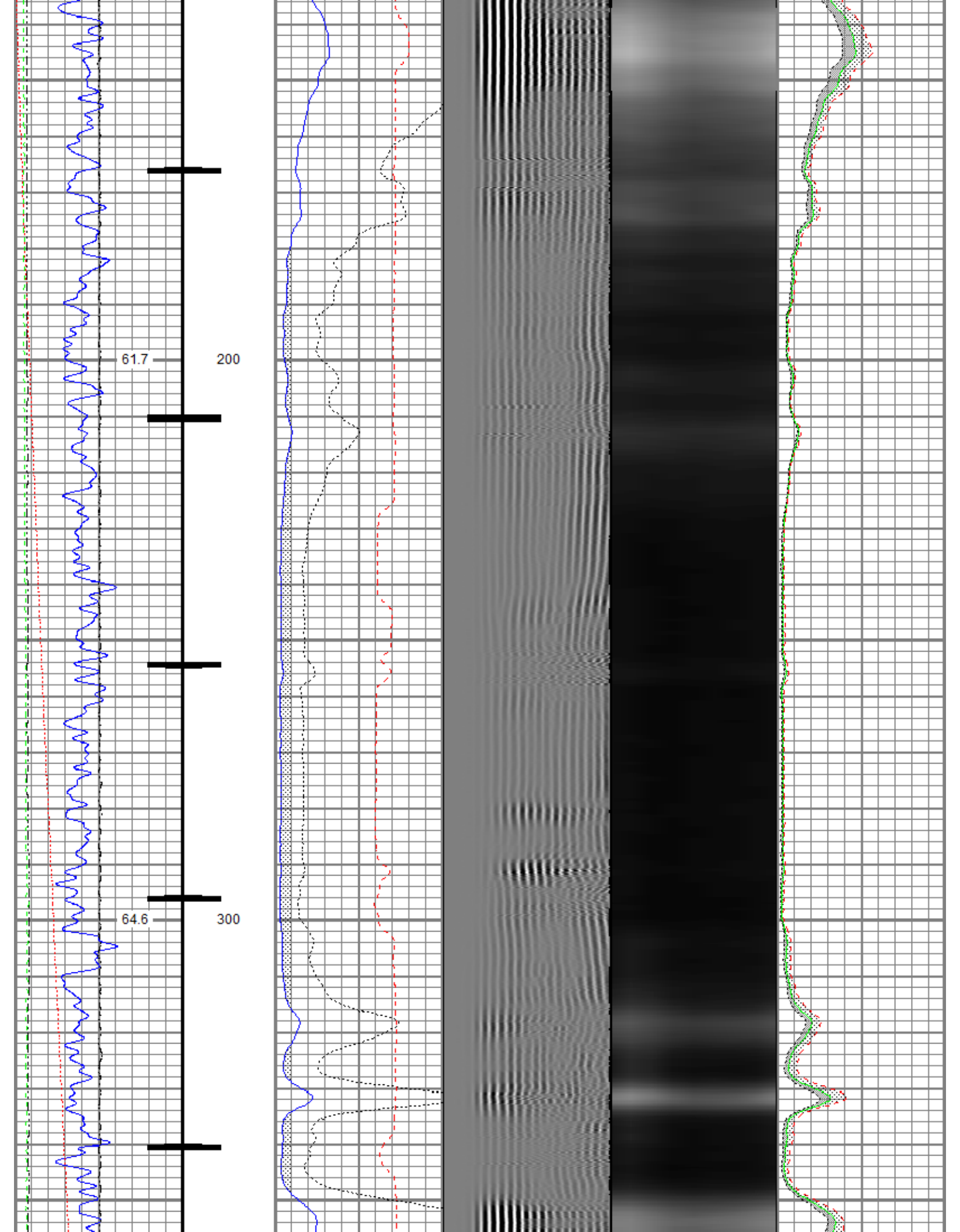


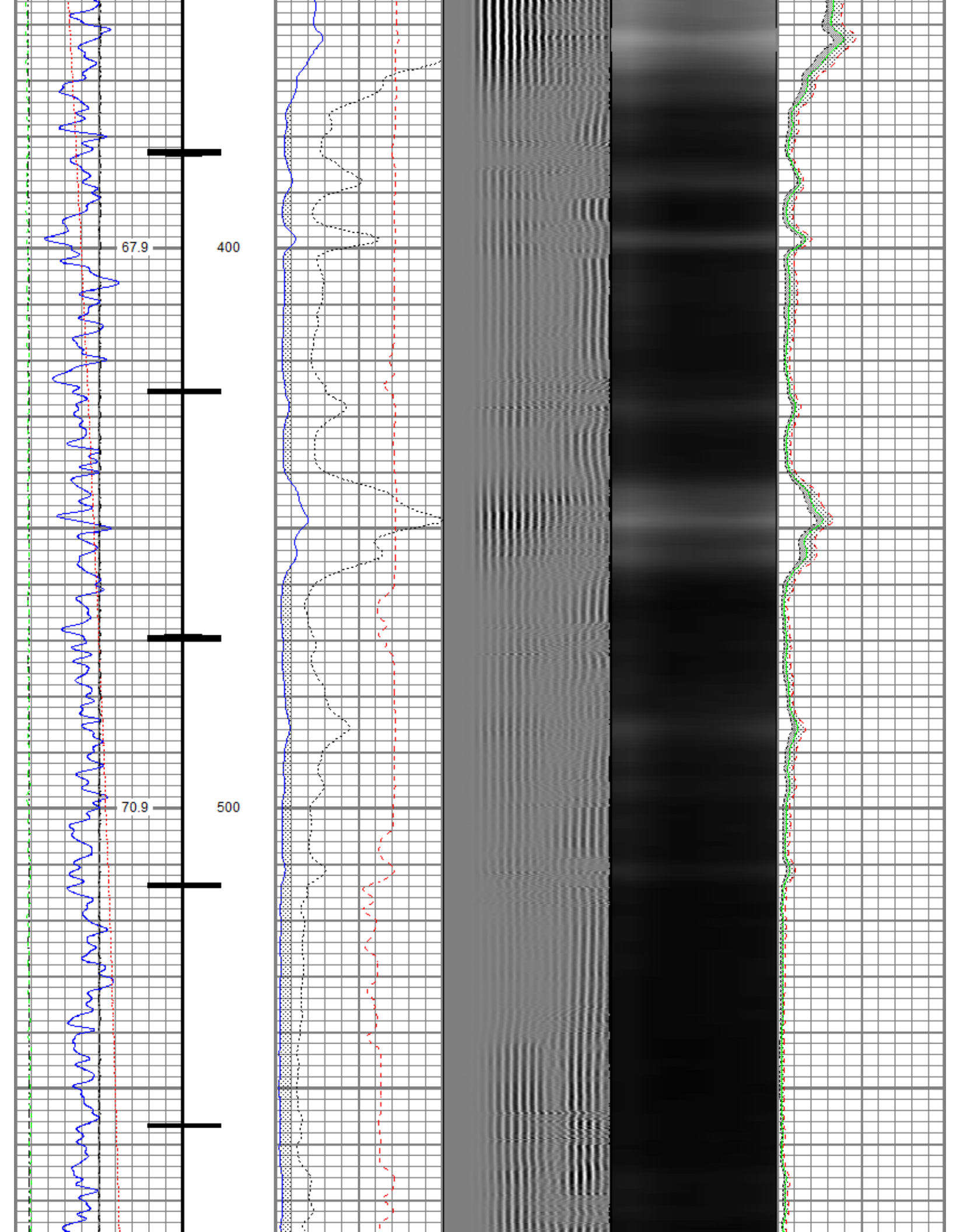
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Casing Tally reported Marker Joint at 6578 FT Adjusted -9 FT to correlate with Marker Joint Gauge Ring/Junk Basket ran to 7724 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!!

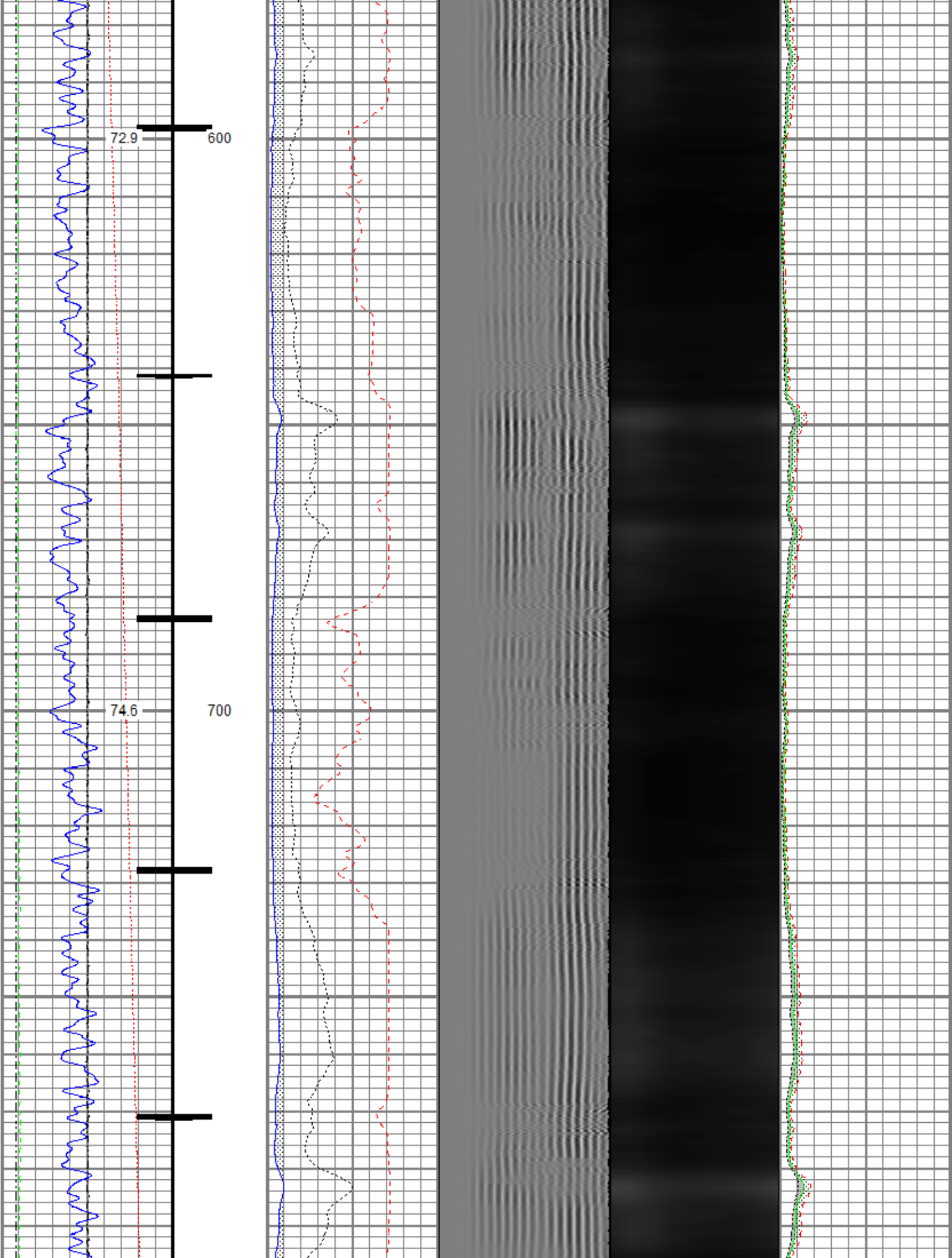
Database File	0512345461_anadarko_speak fed 32n2-5hz_rbl_04-25-18\processed_0512345461_anadarko_speak fed 32n2-5hz_rbl_04-25-18
Dataset Pathname	2800/pass5.2
Presentation Format	ros_radri
Dataset Creation	Thu Apr 26 10:25:14 2018
Charted by	Depth in Feet scaled 1:240

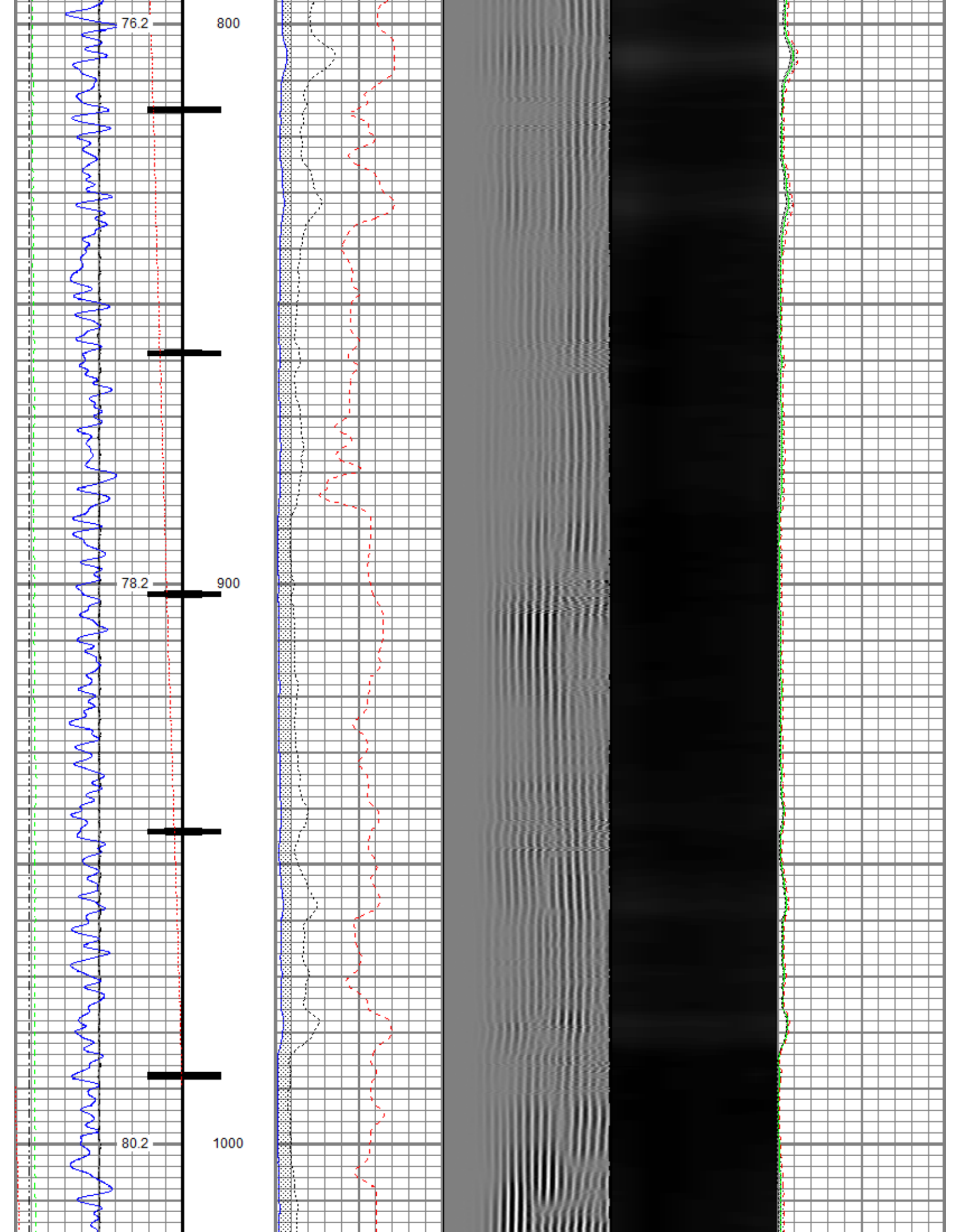
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150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

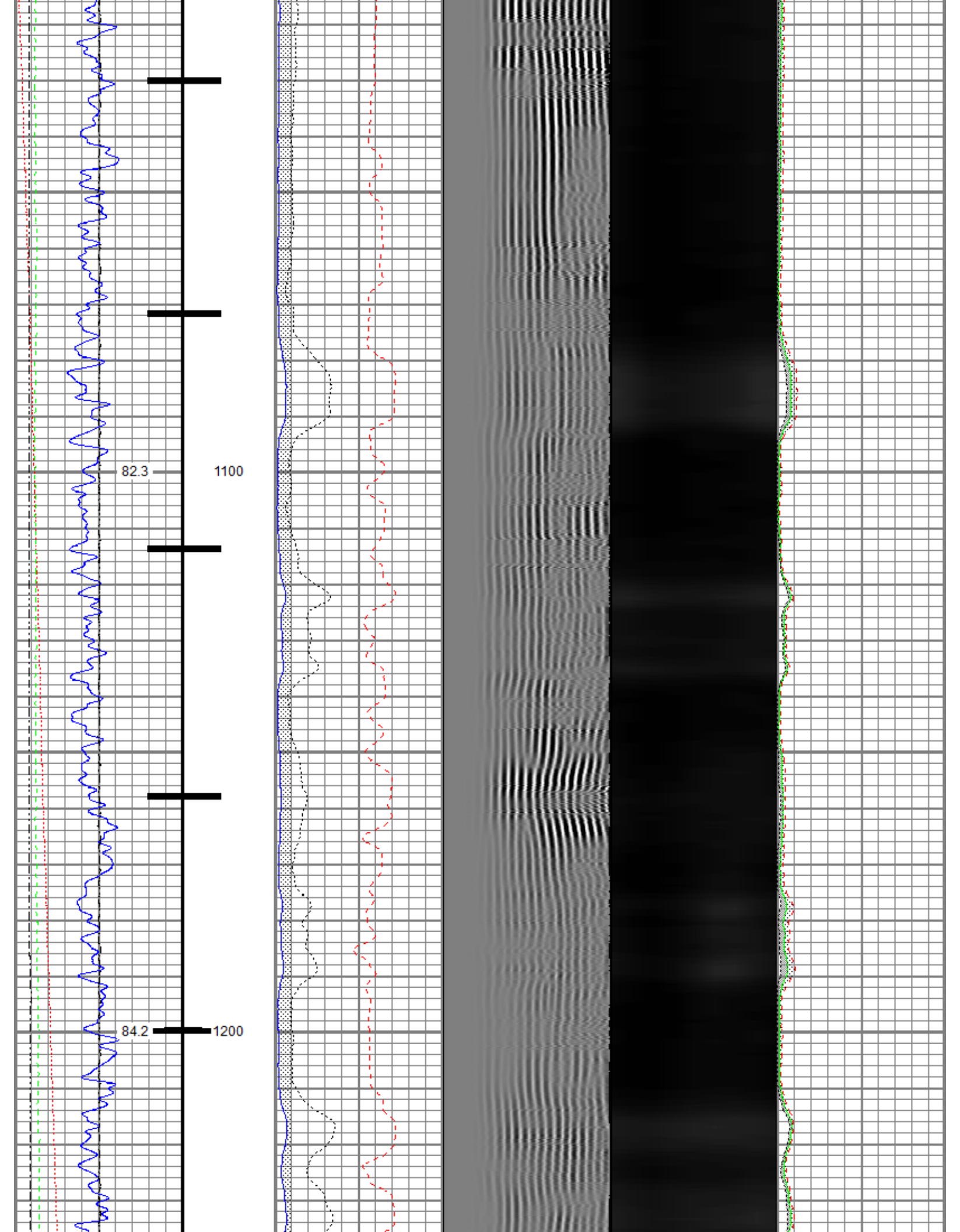


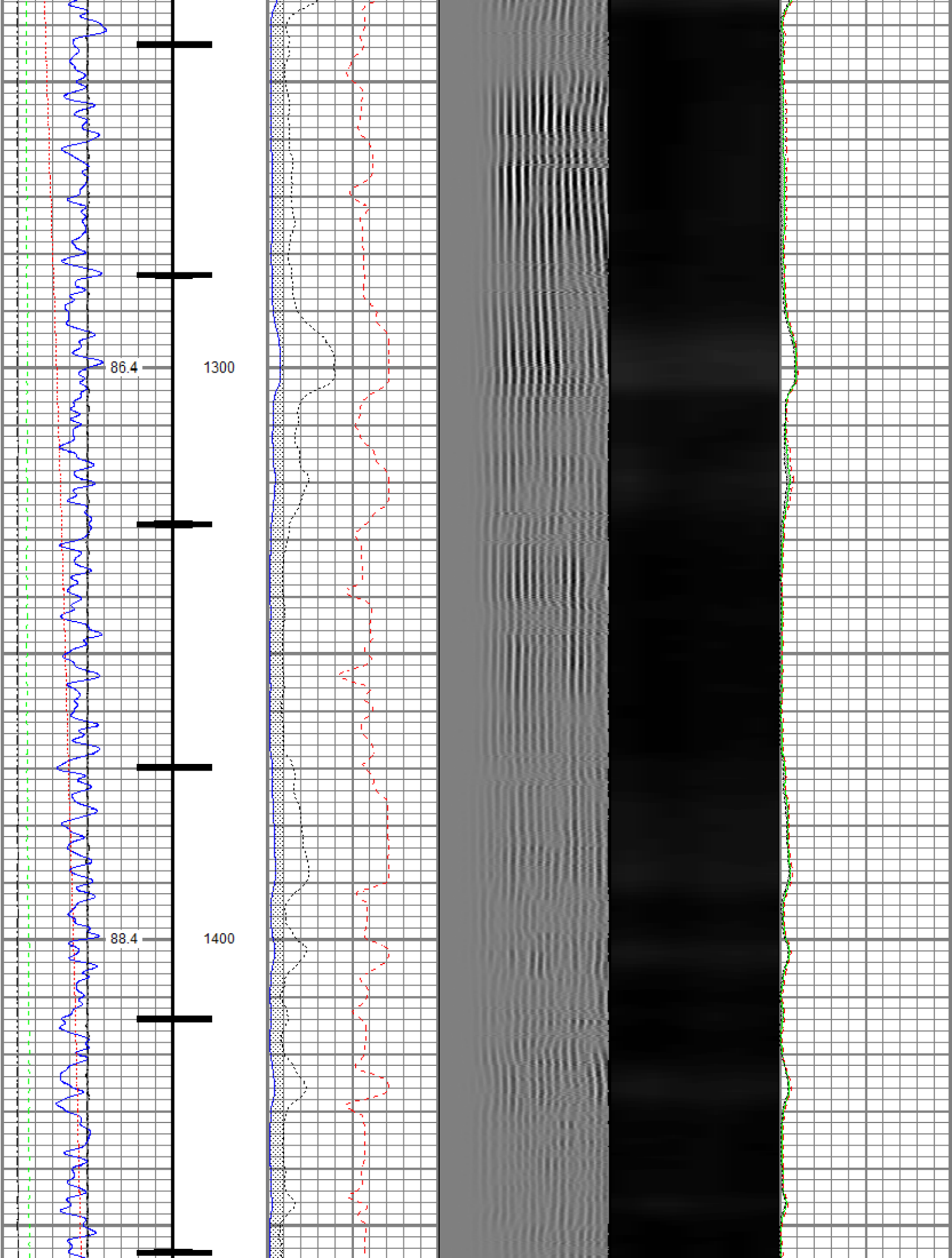


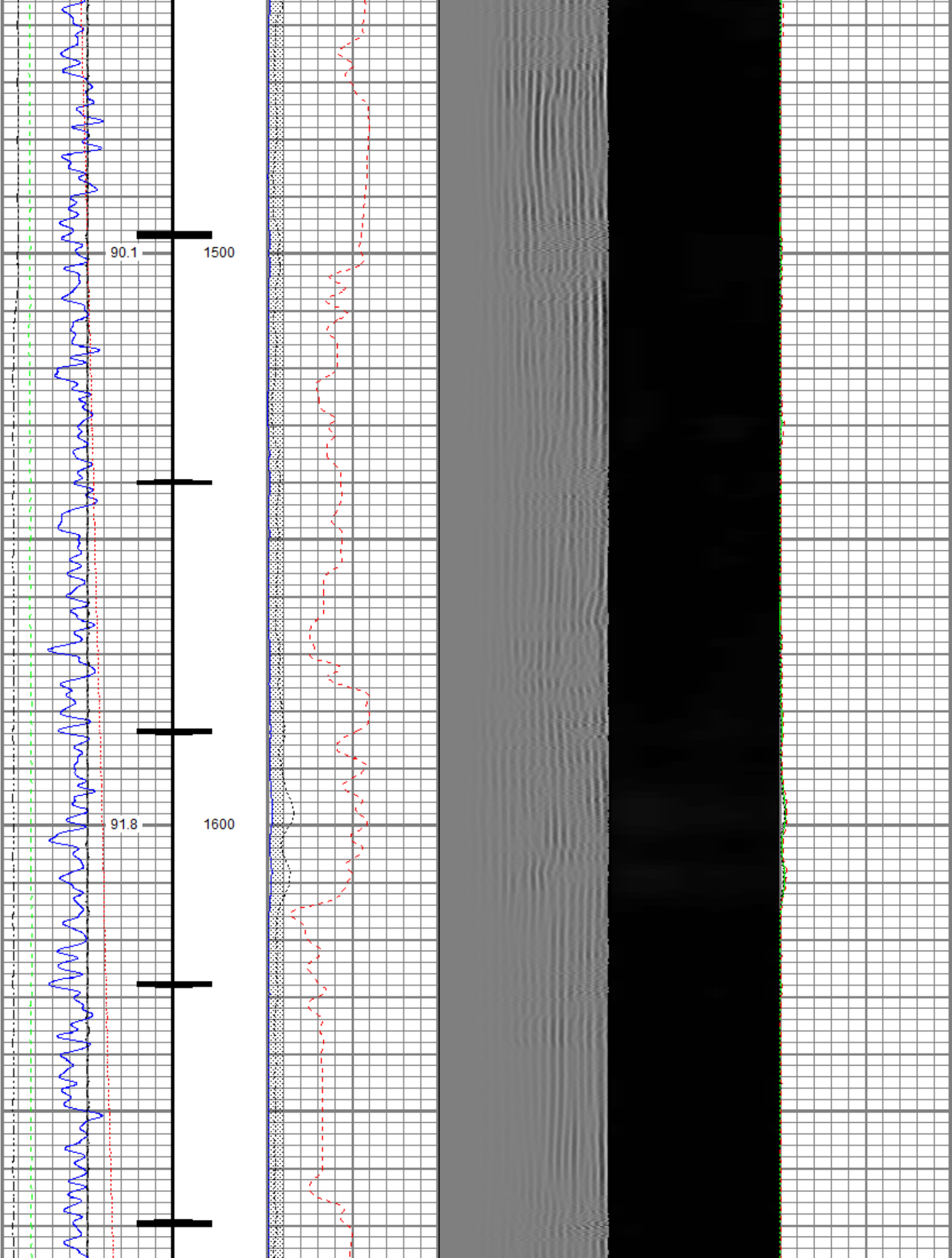


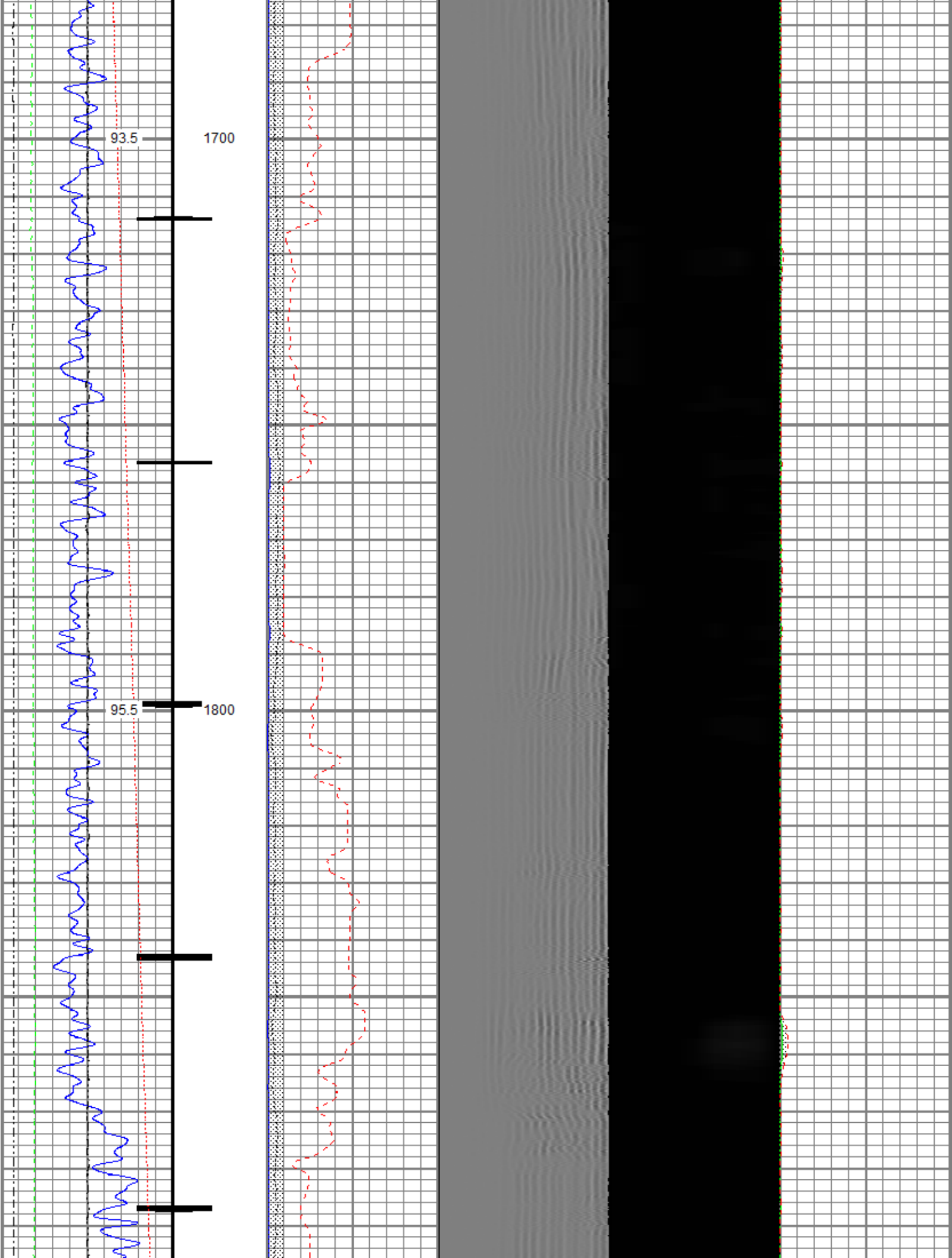


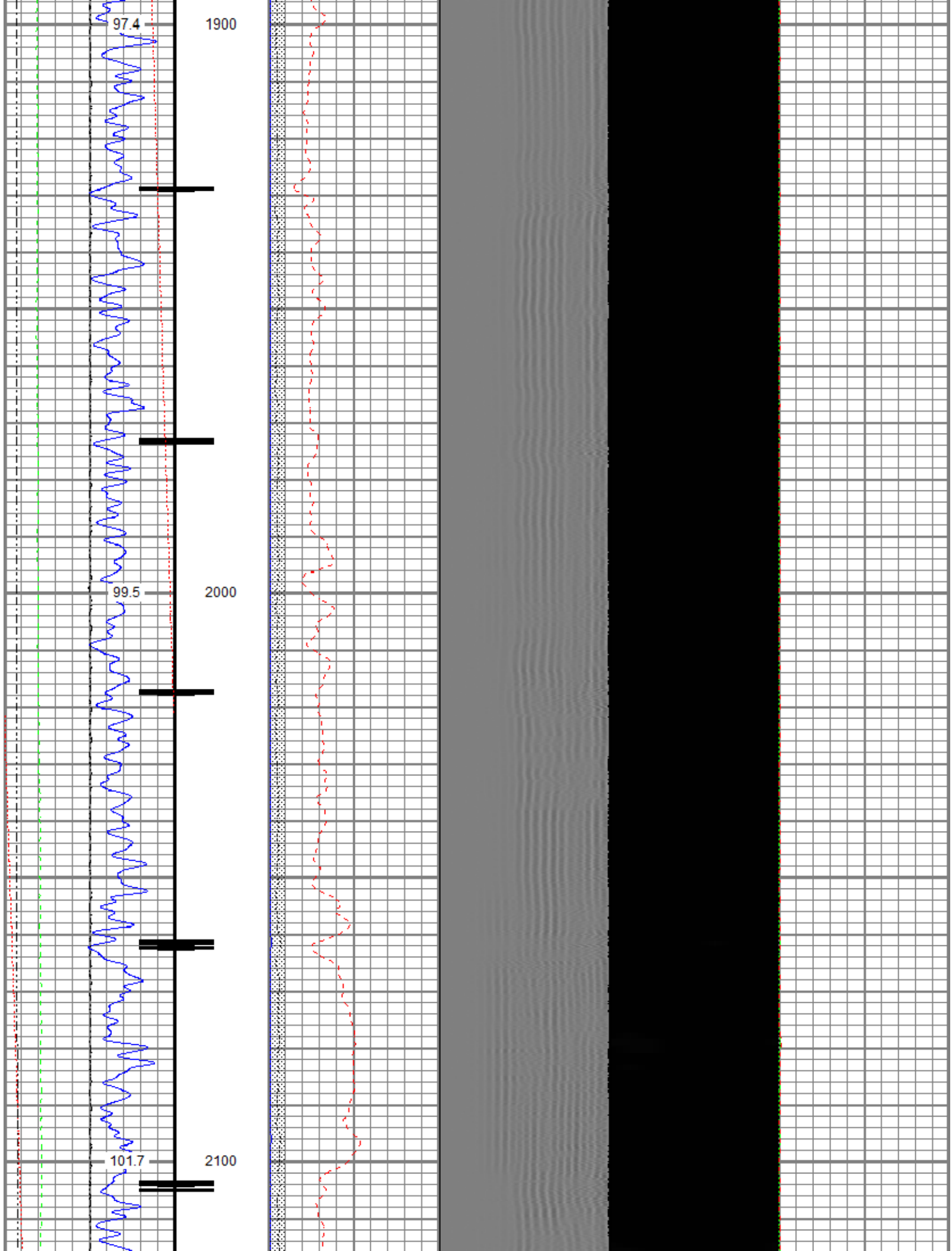


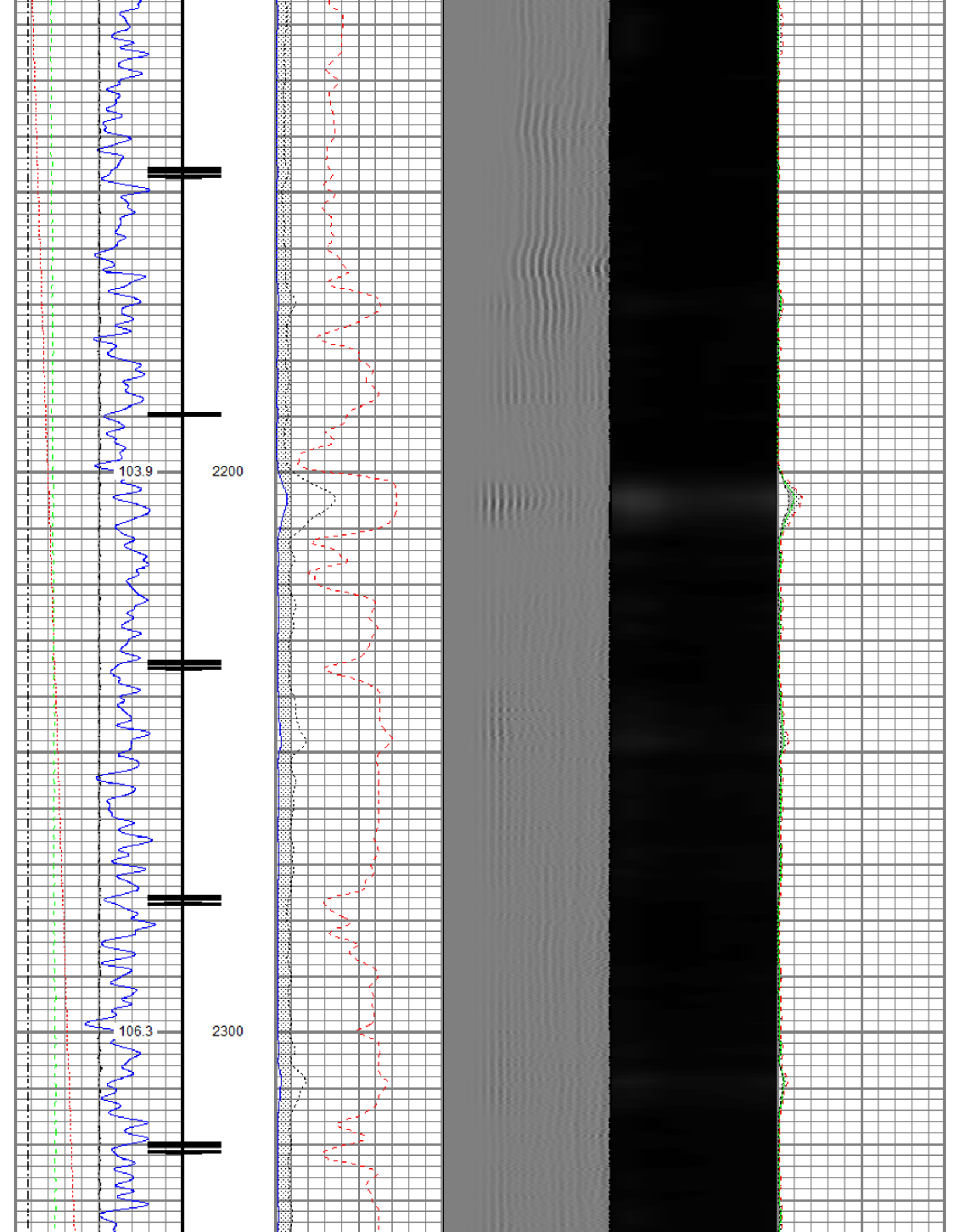


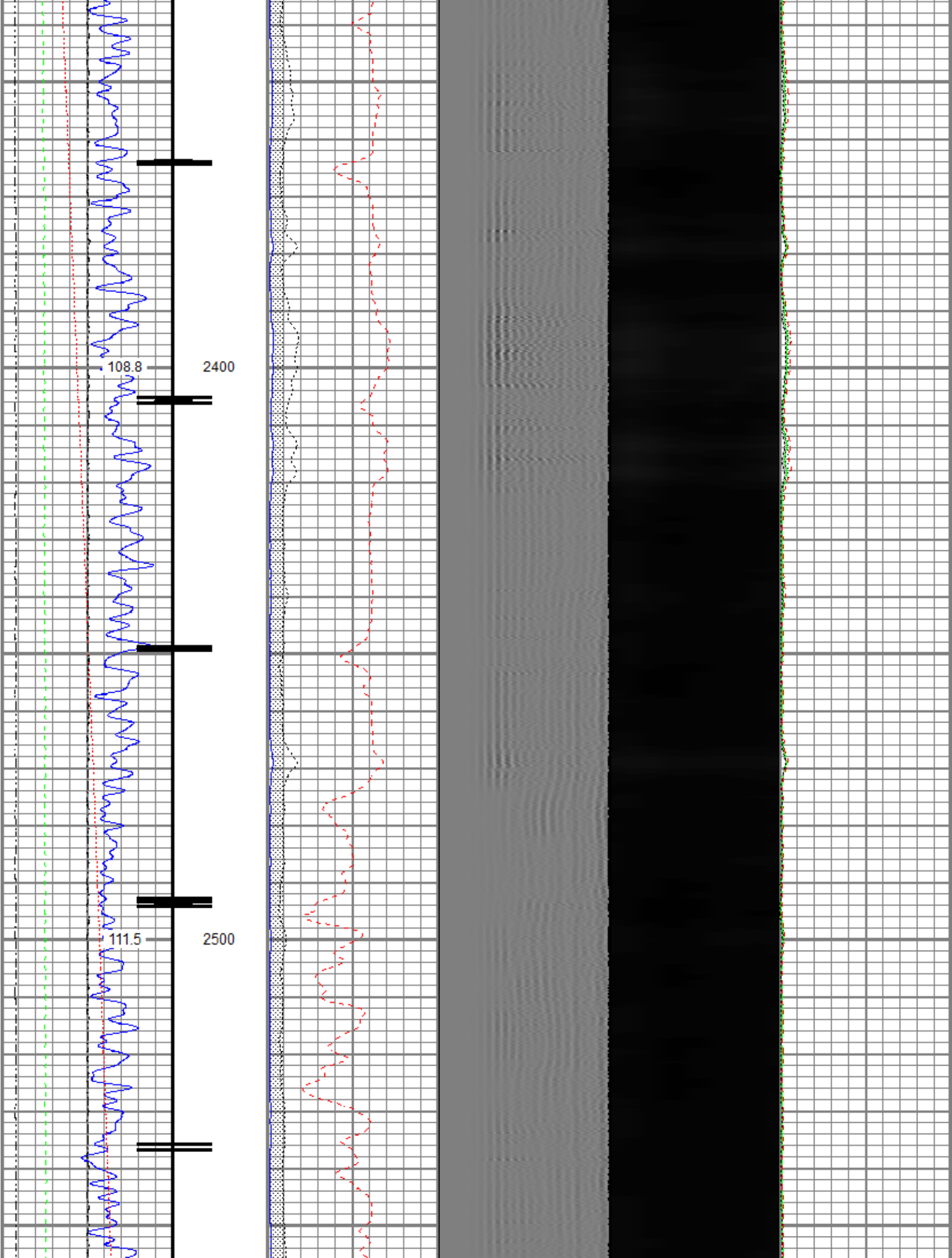


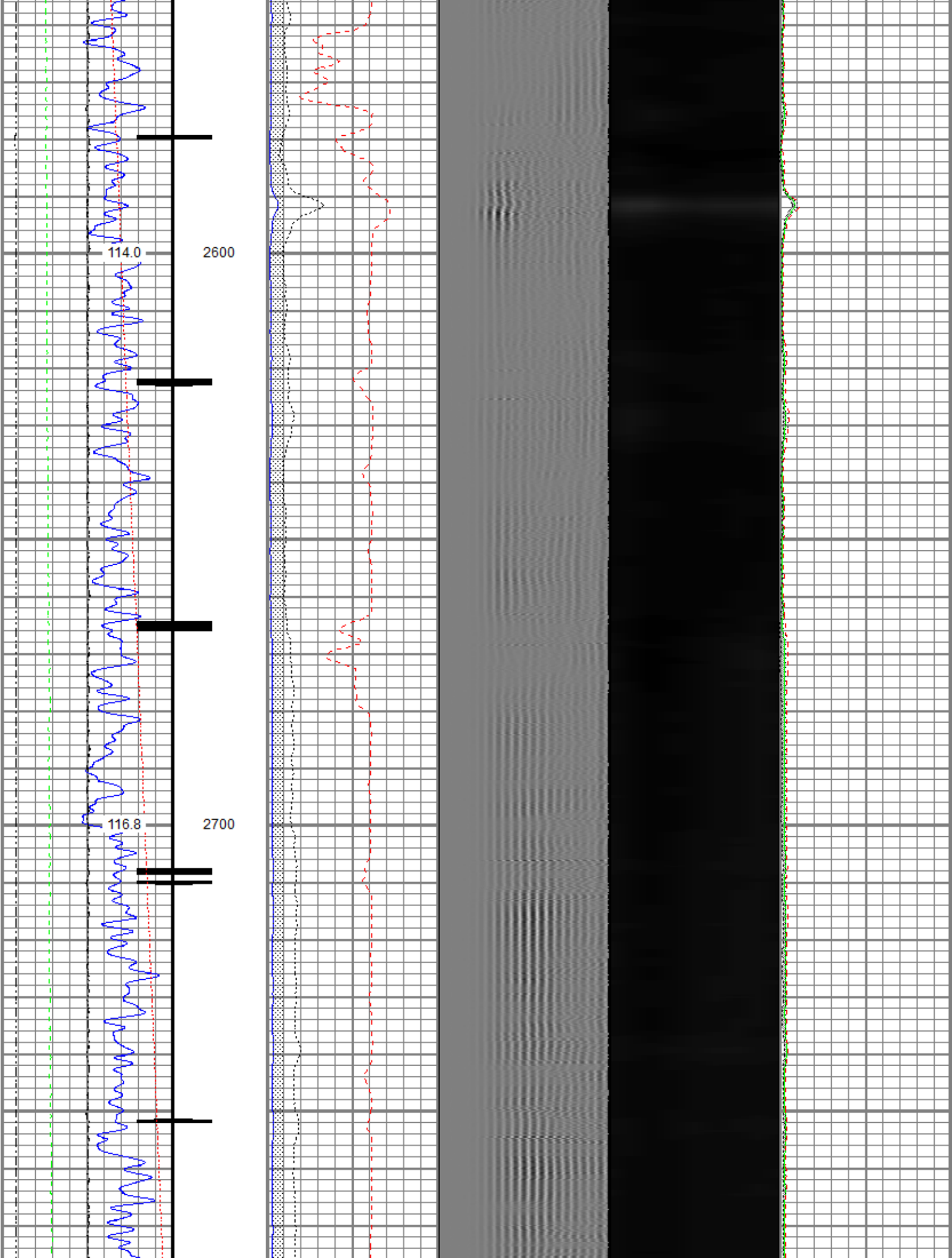


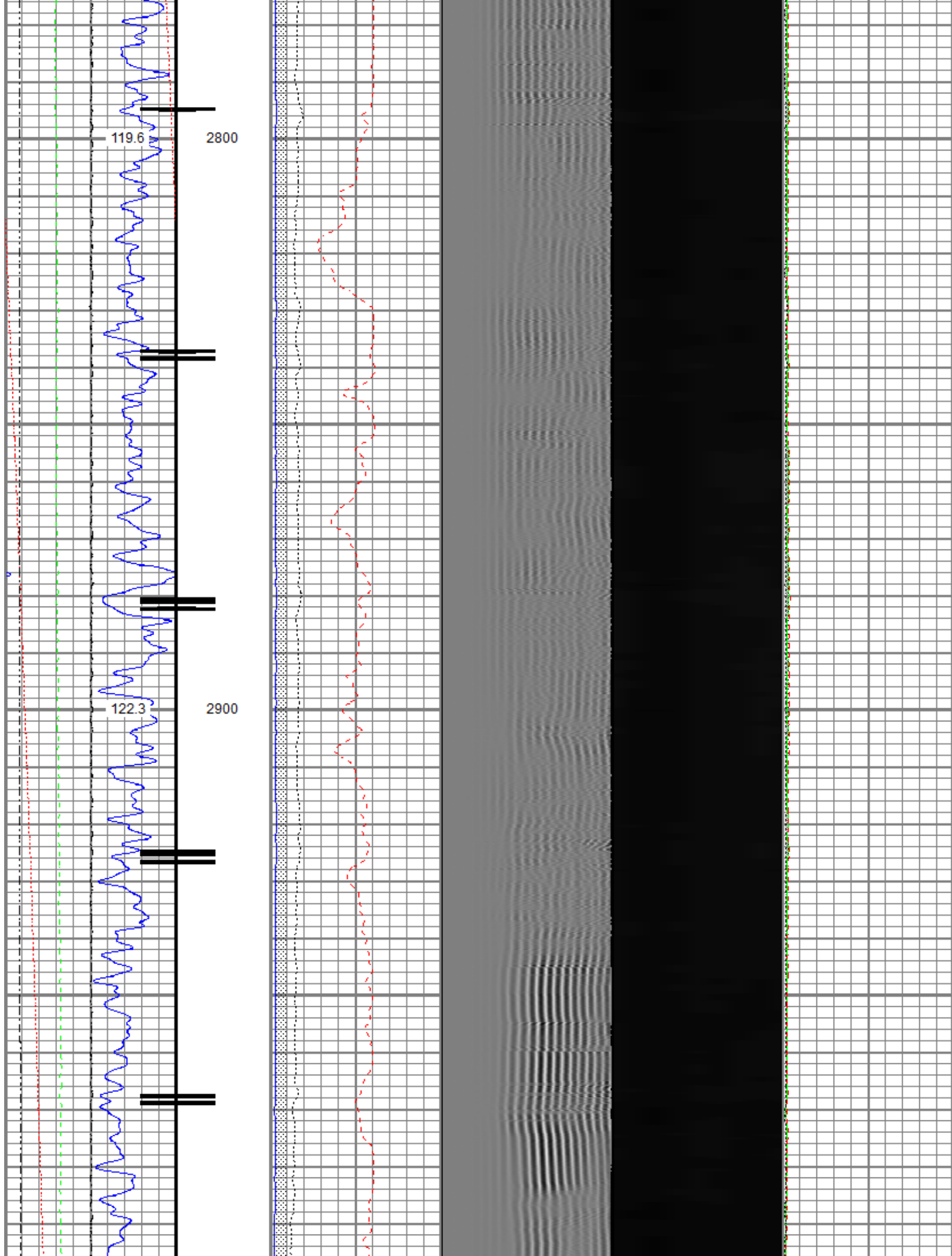


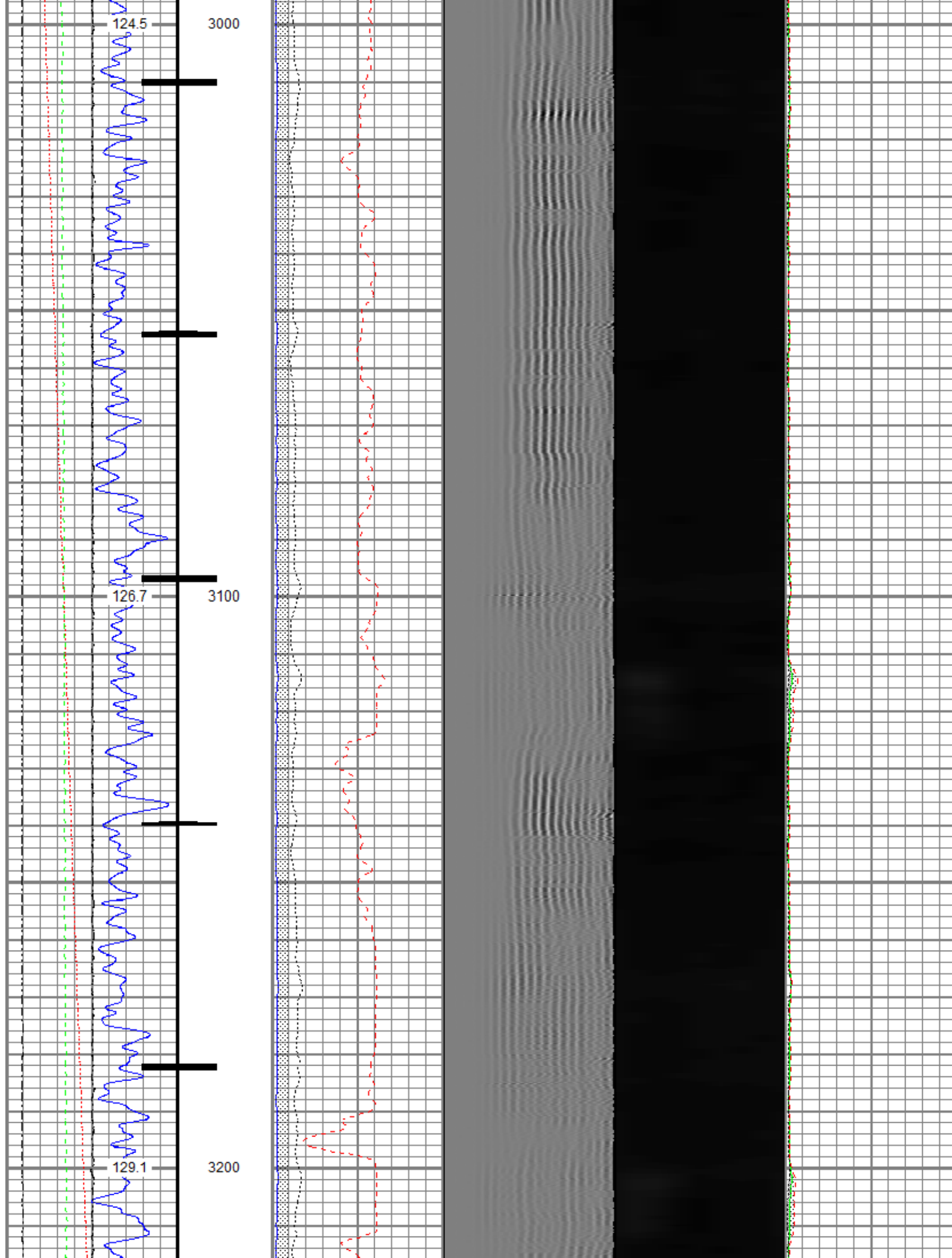


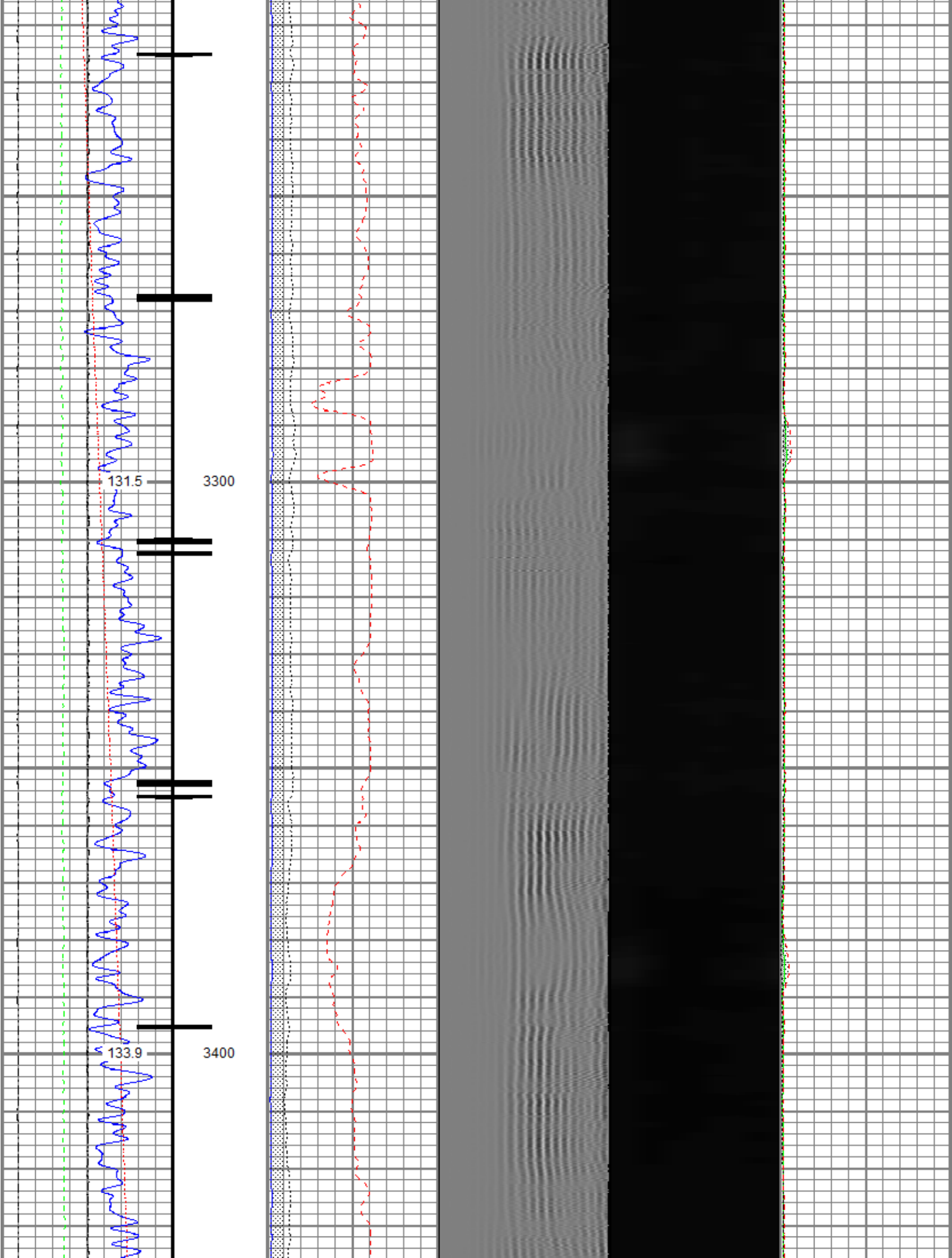


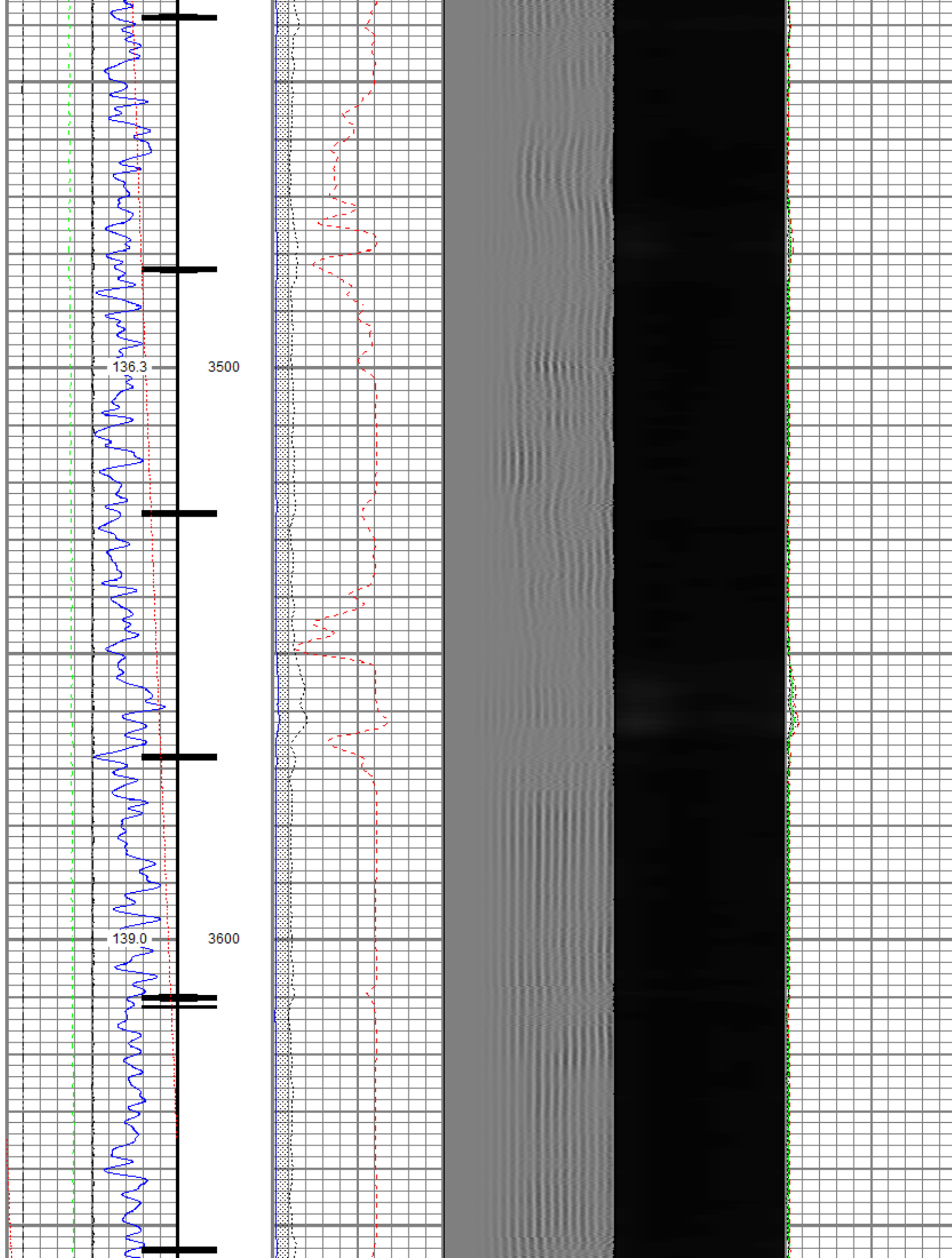


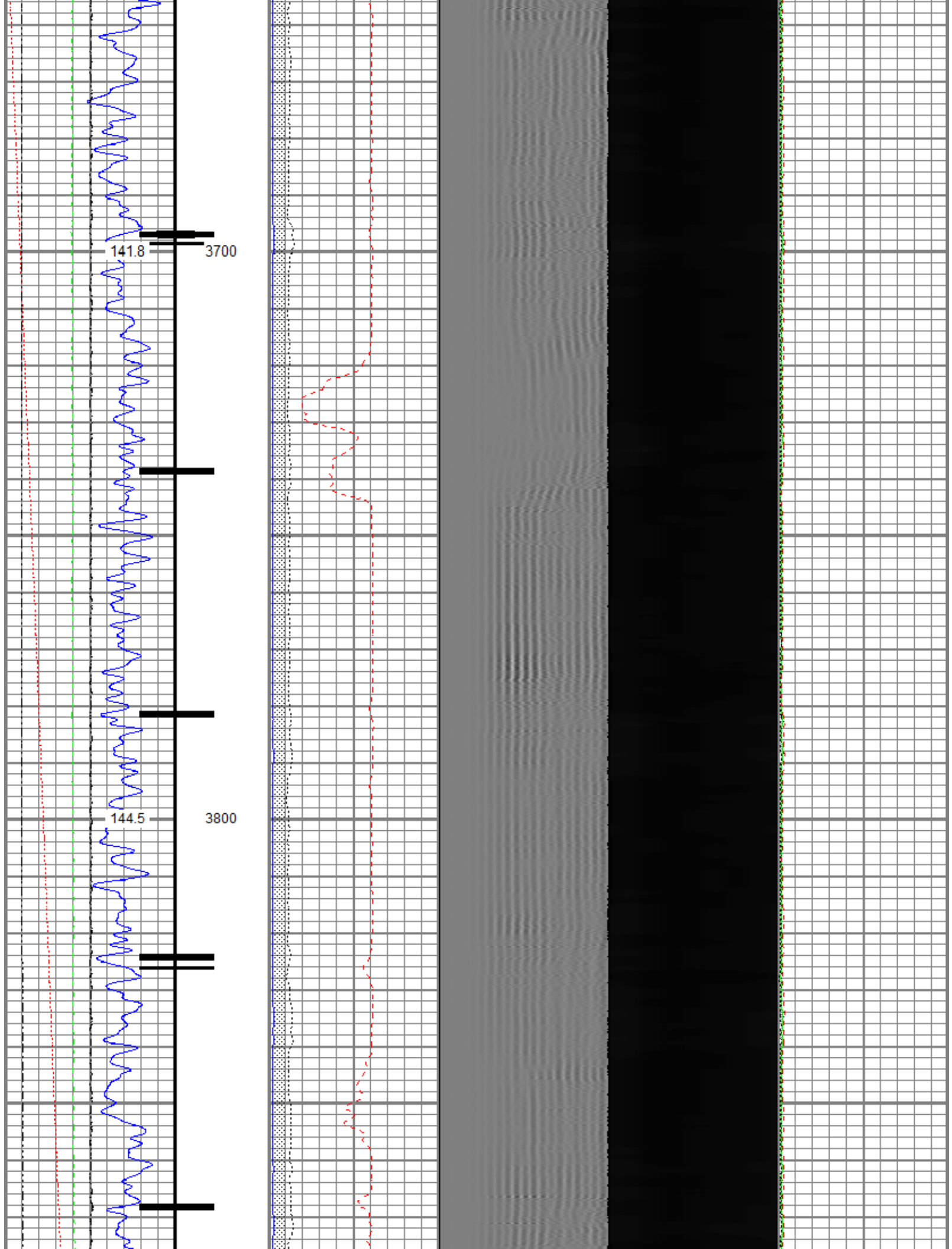


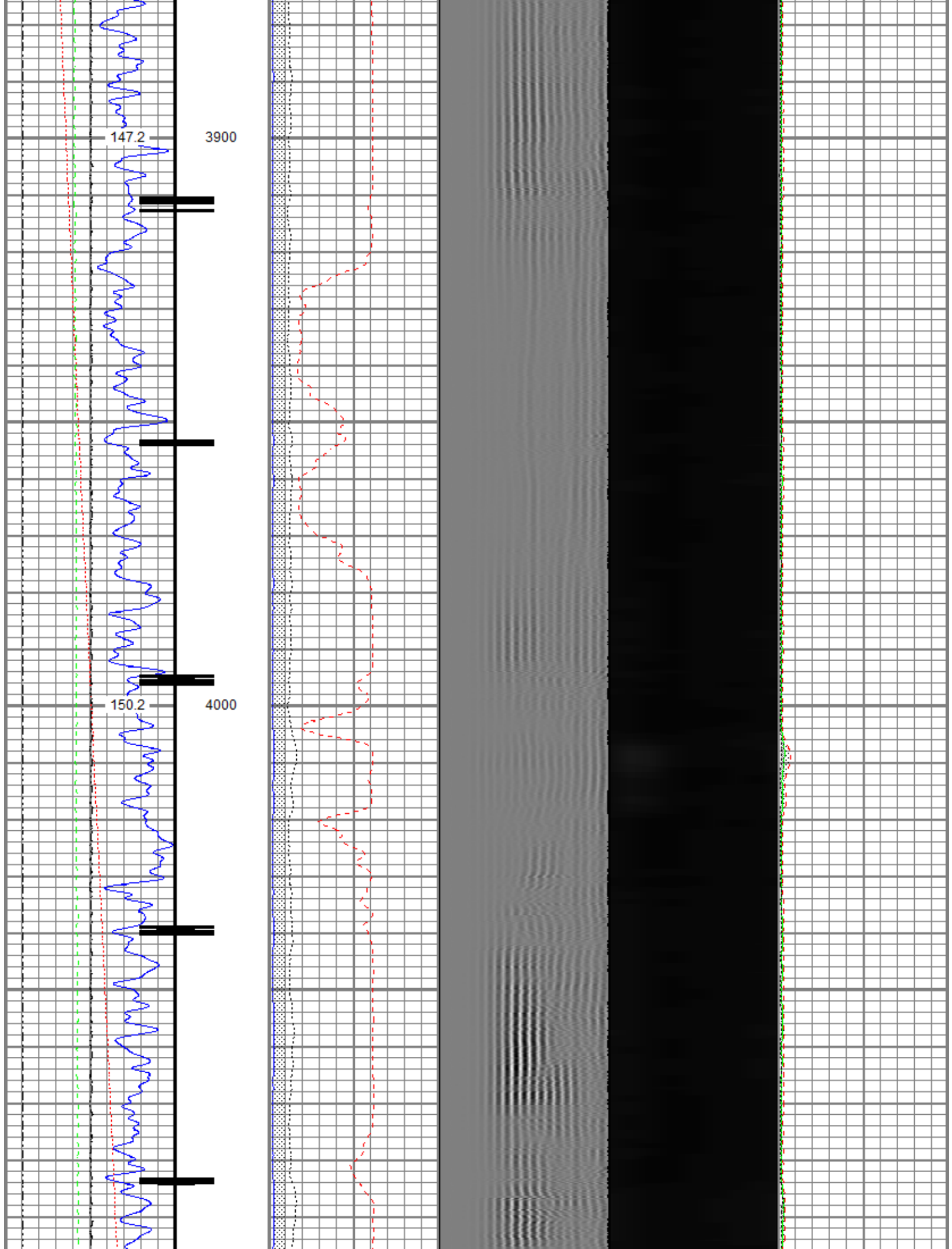


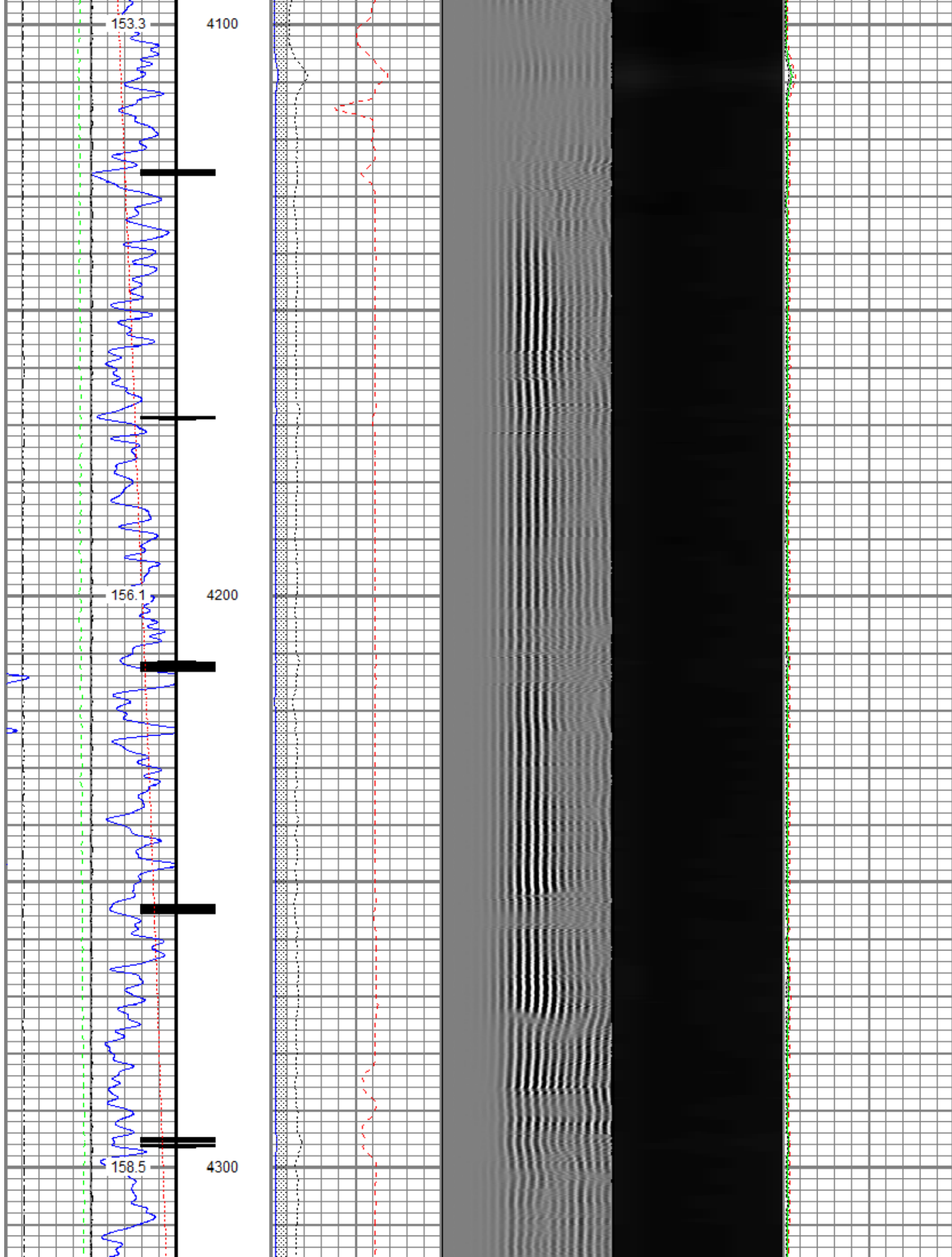


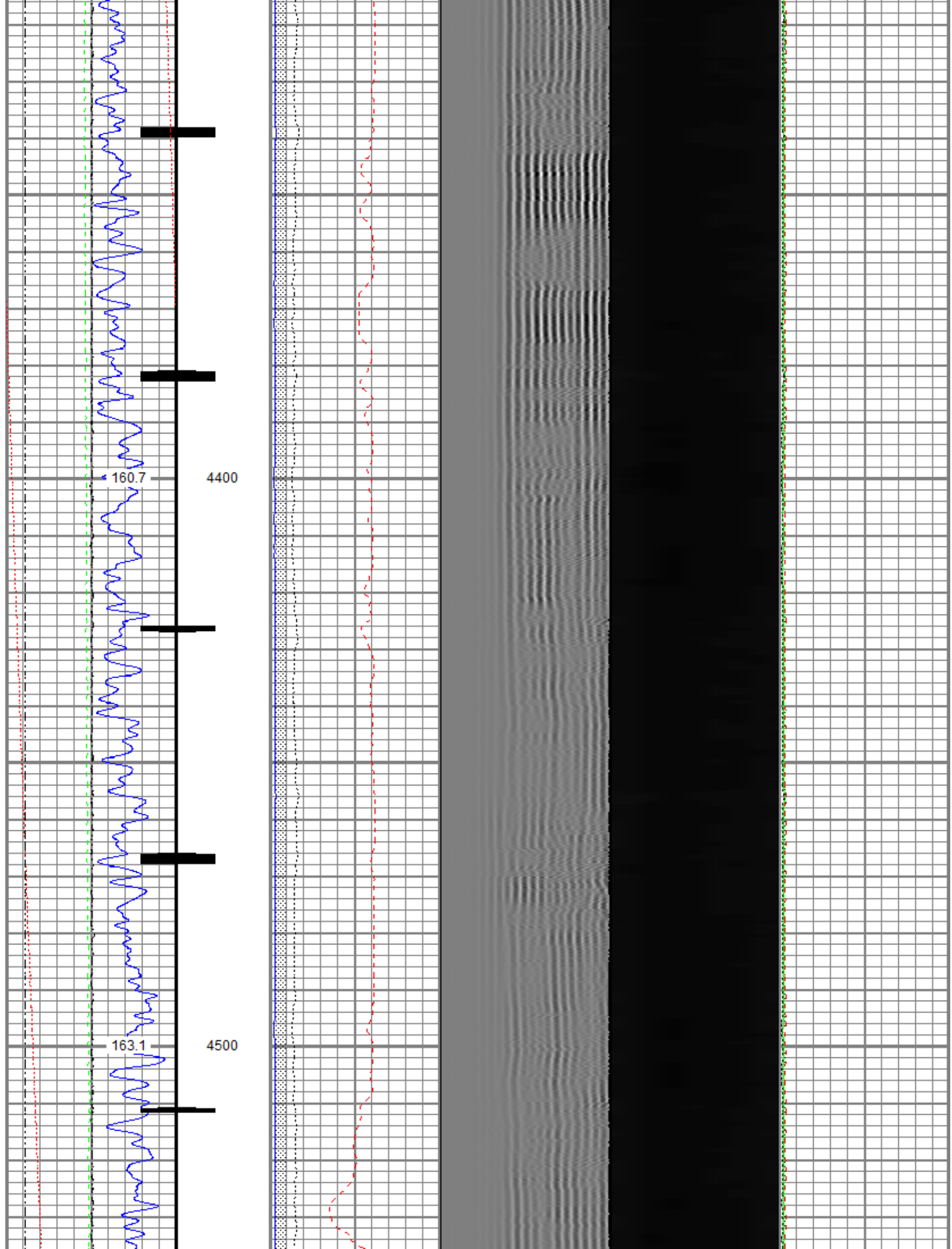


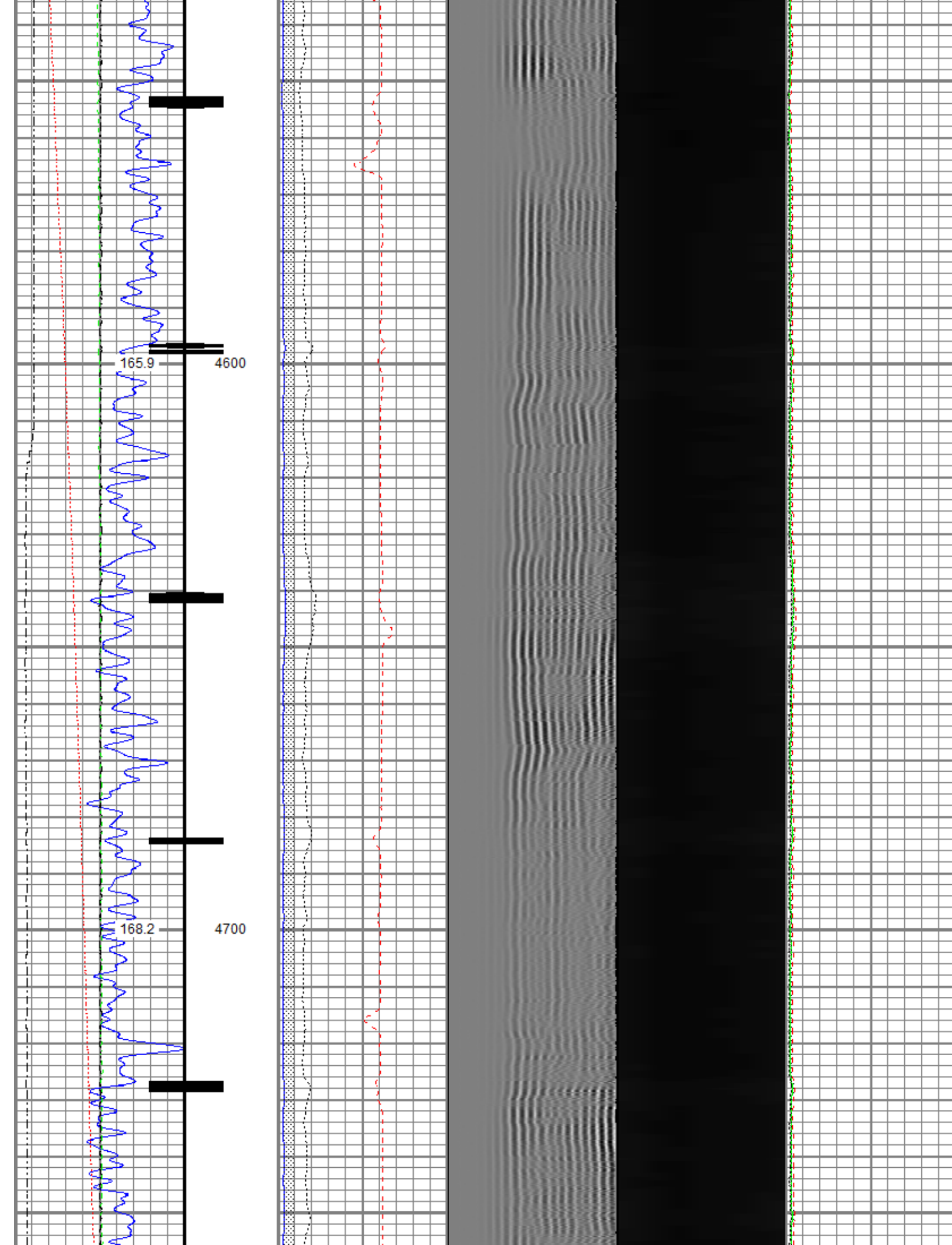


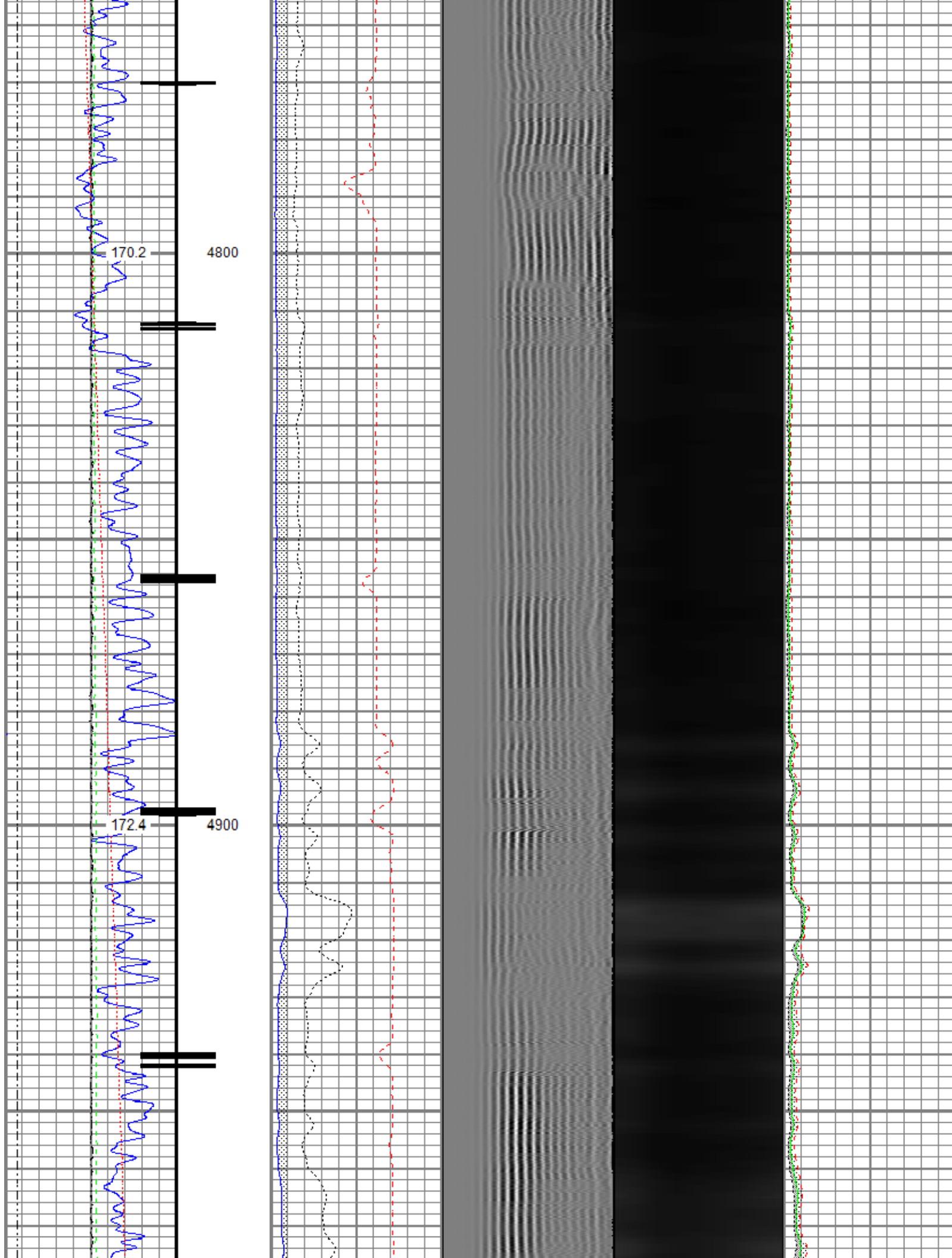










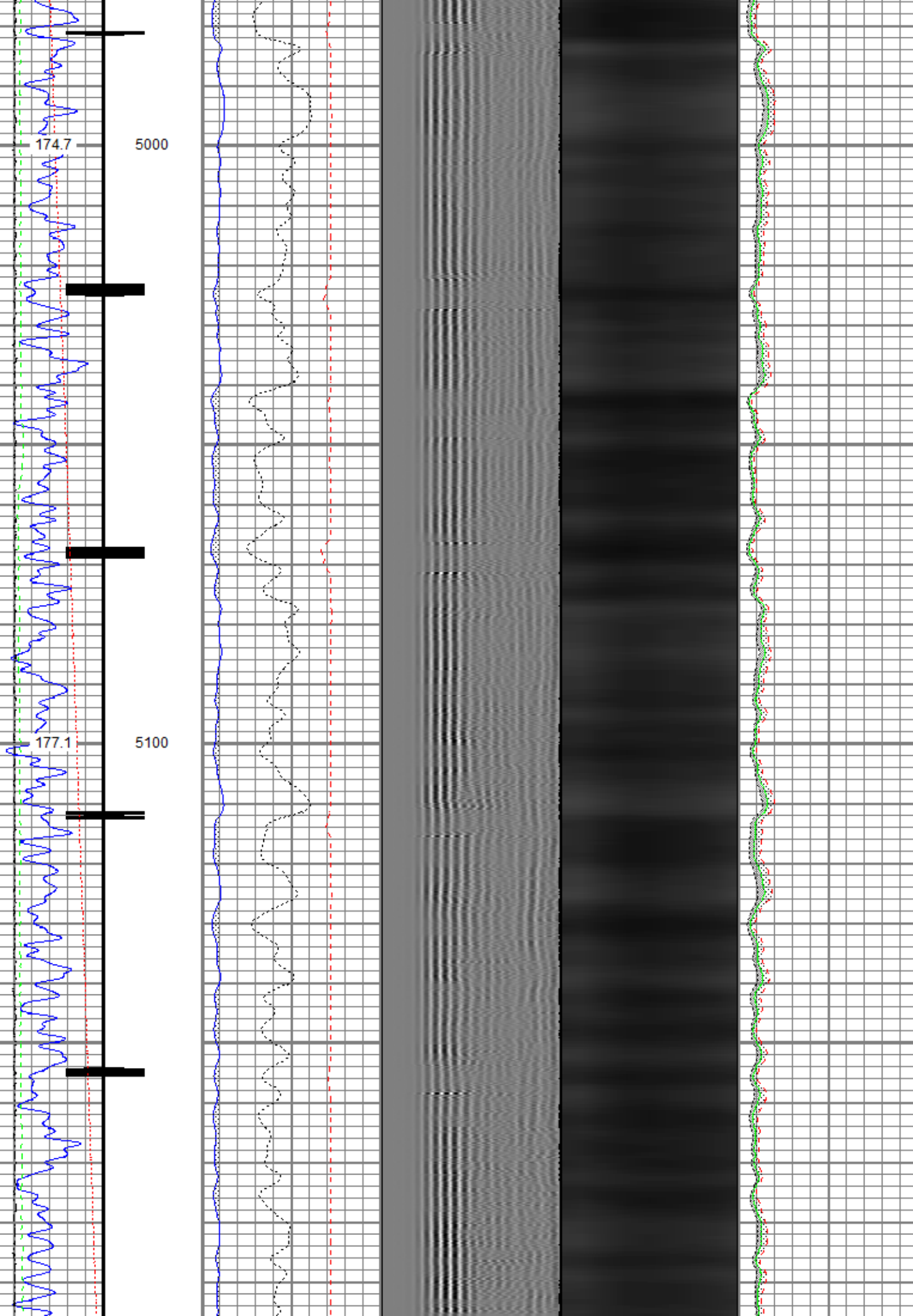


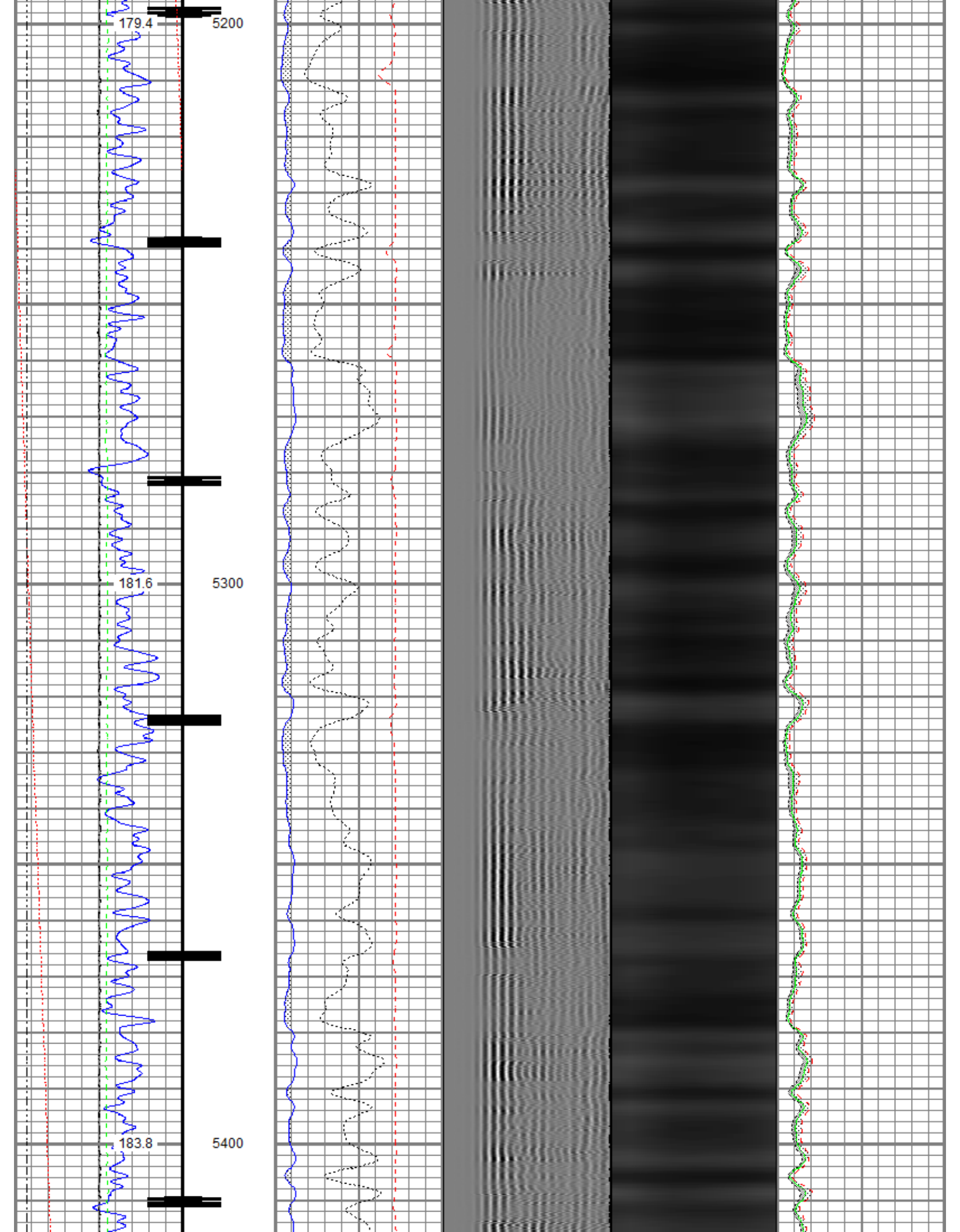
174.7

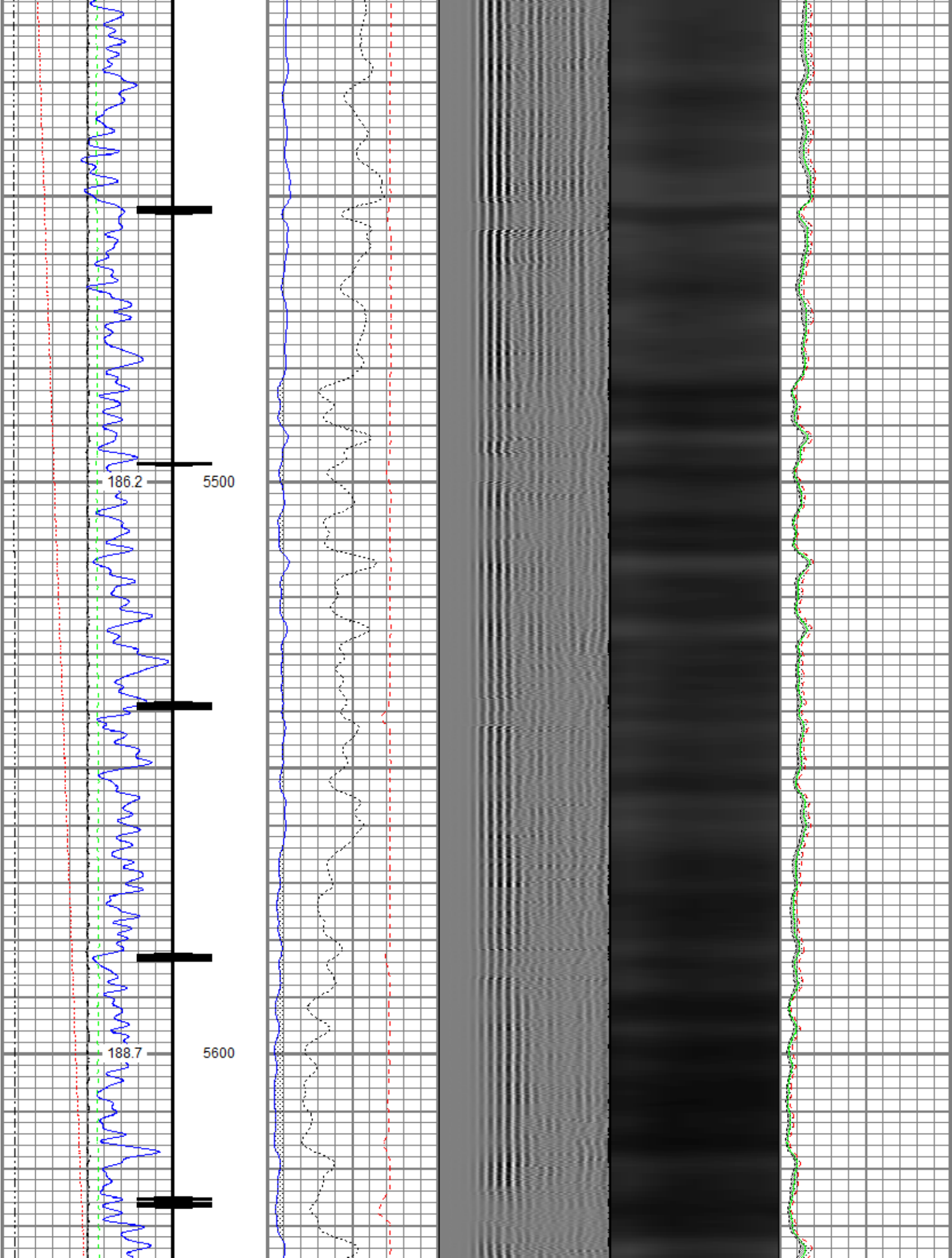
5000

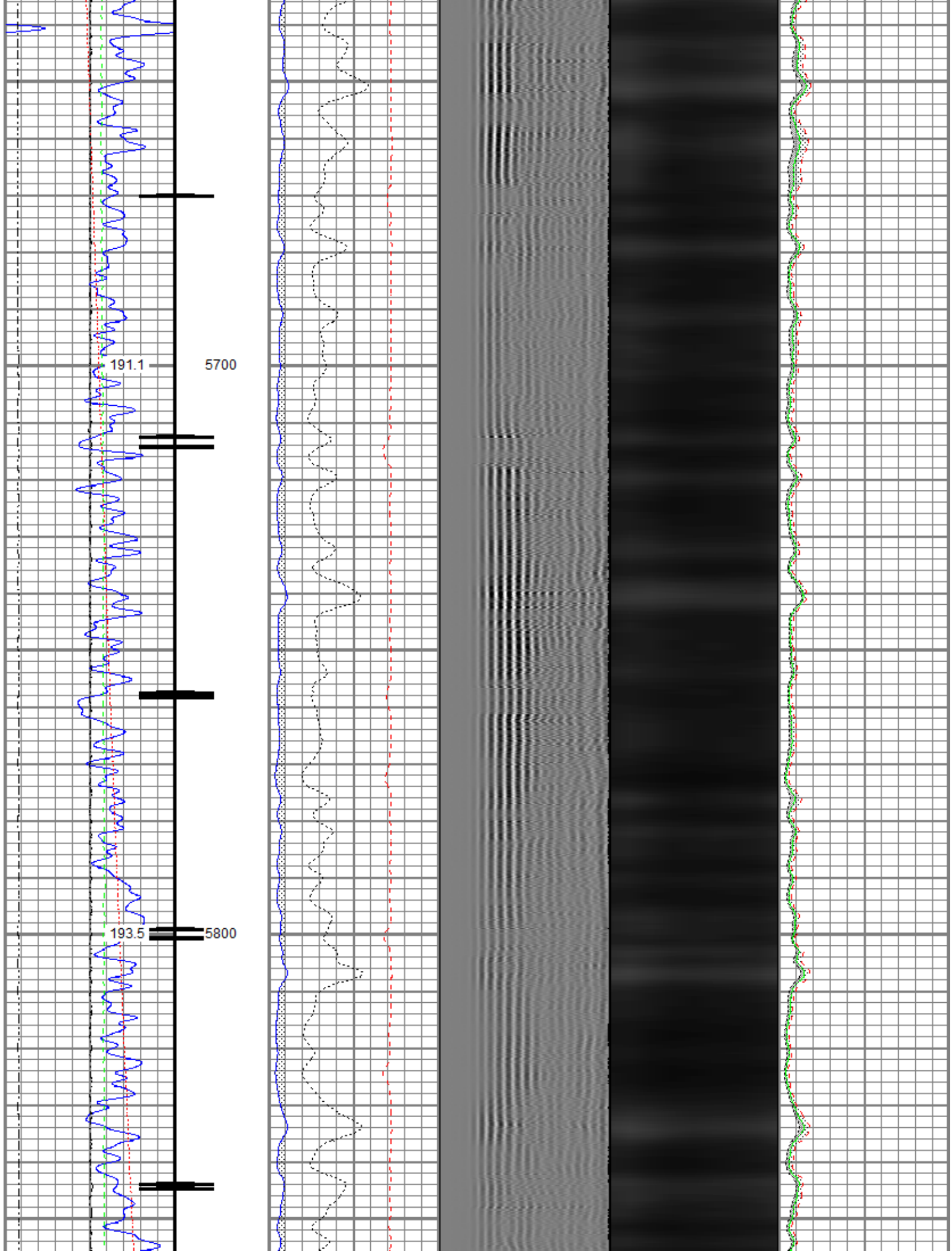
177.1

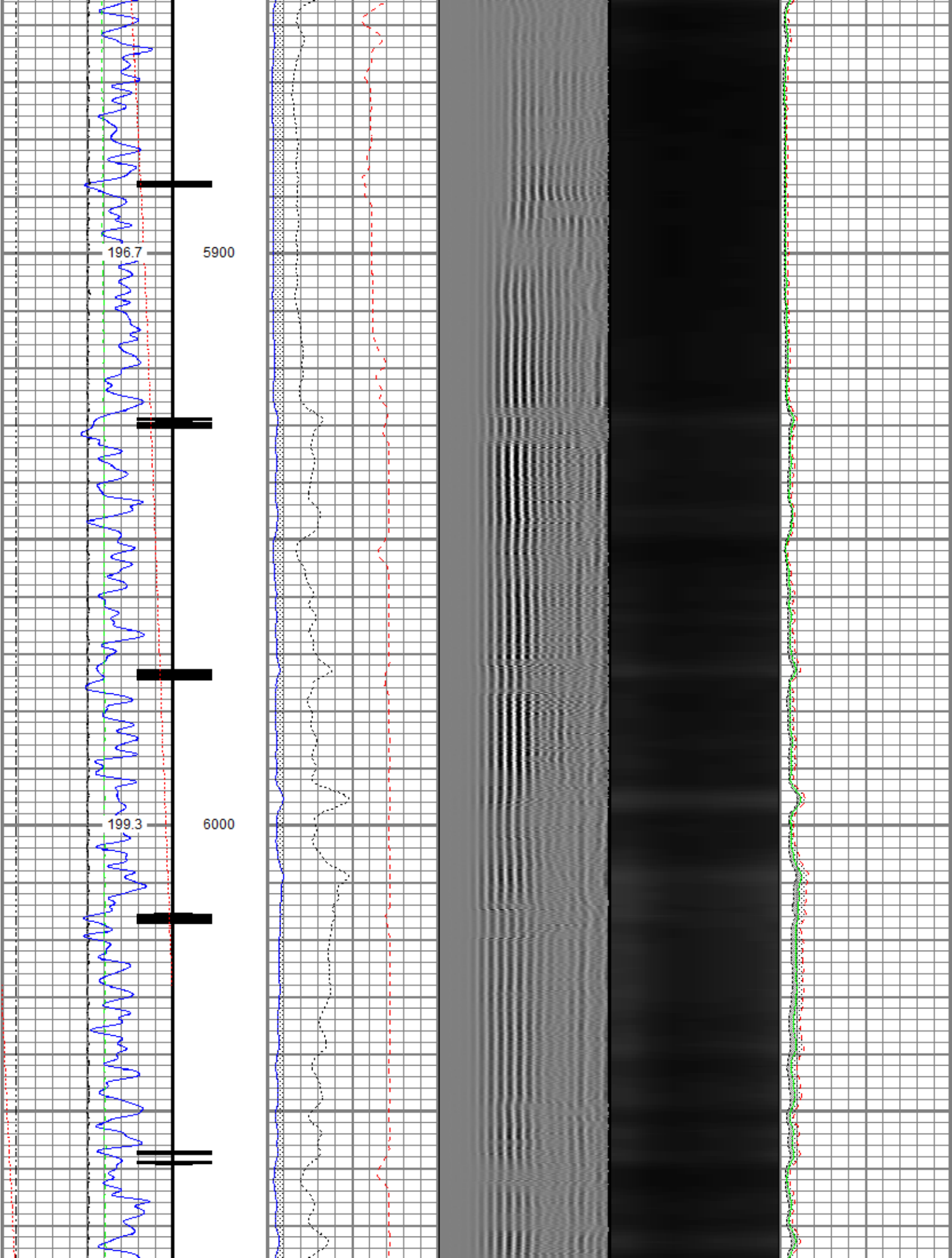
5100

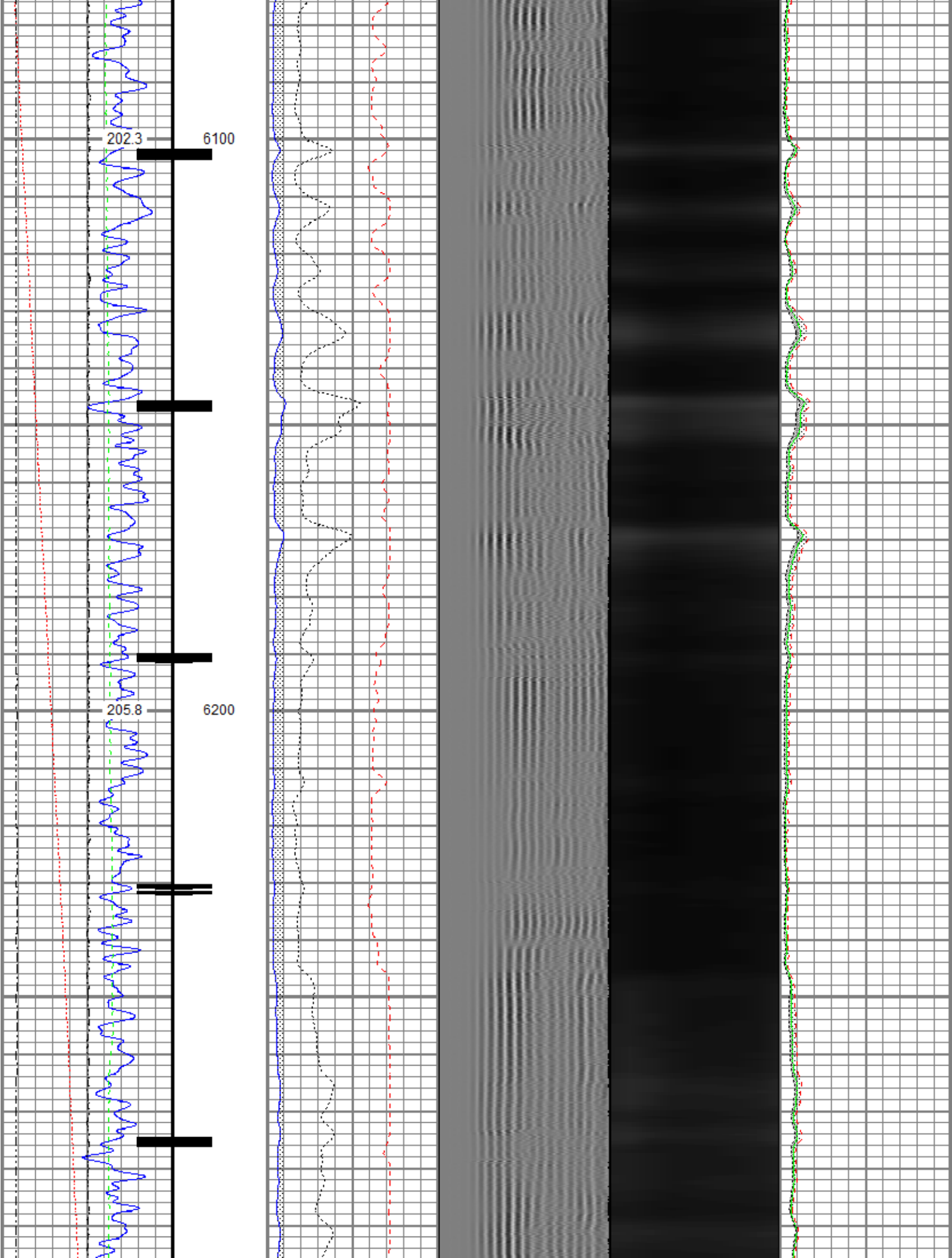


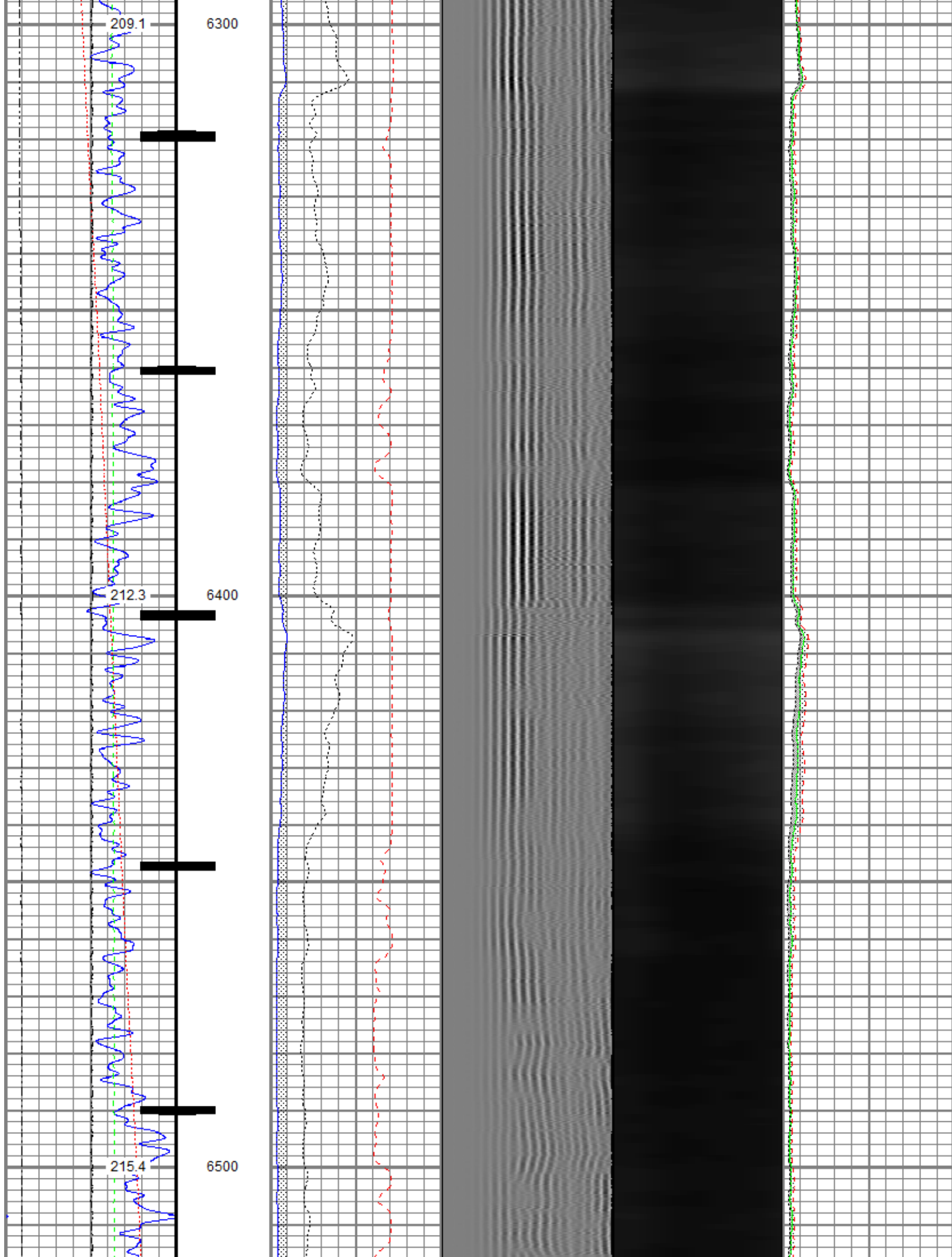


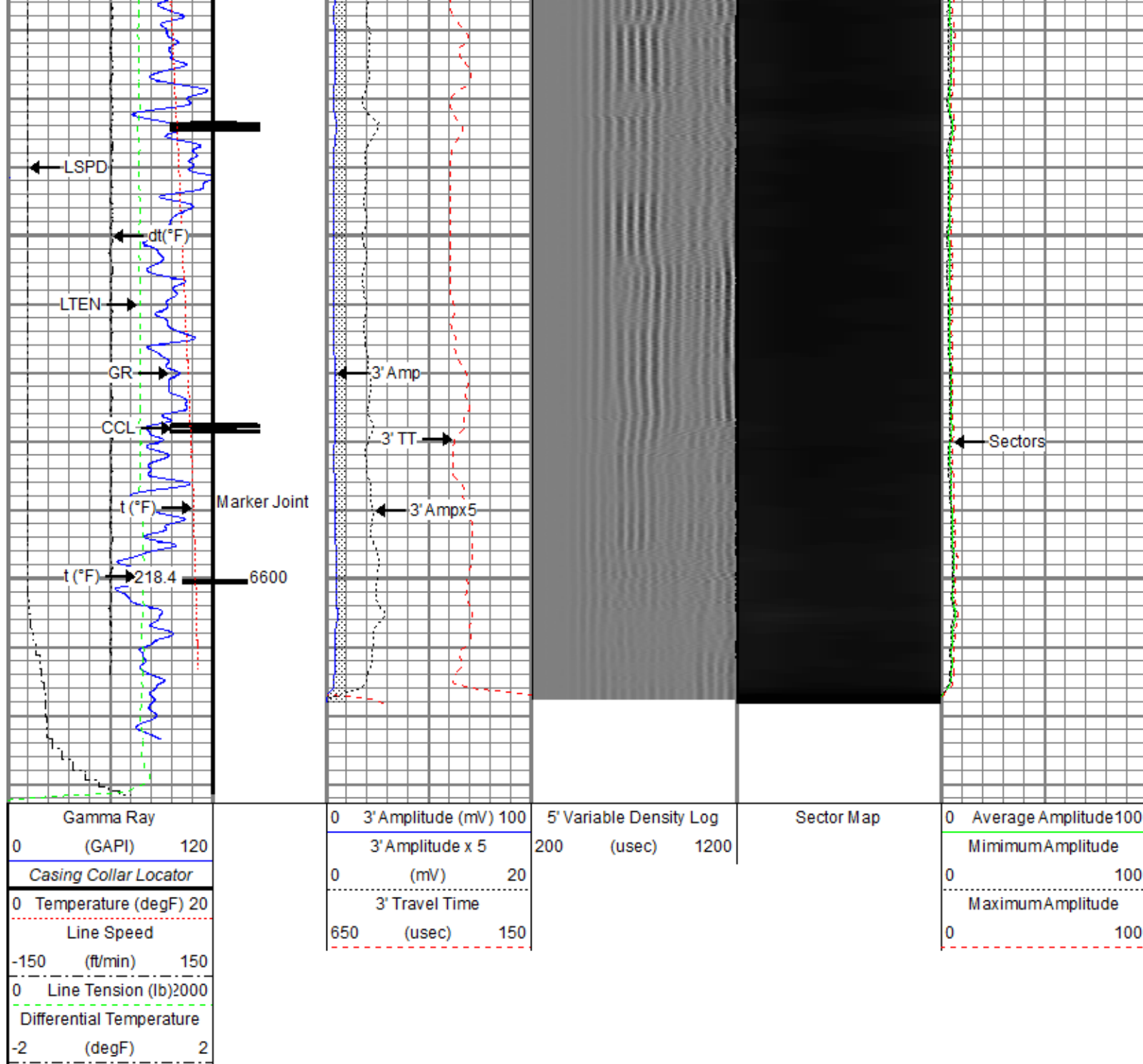












Repeat Pass

Recorded With 2800 PSI Surface Induced Pressure

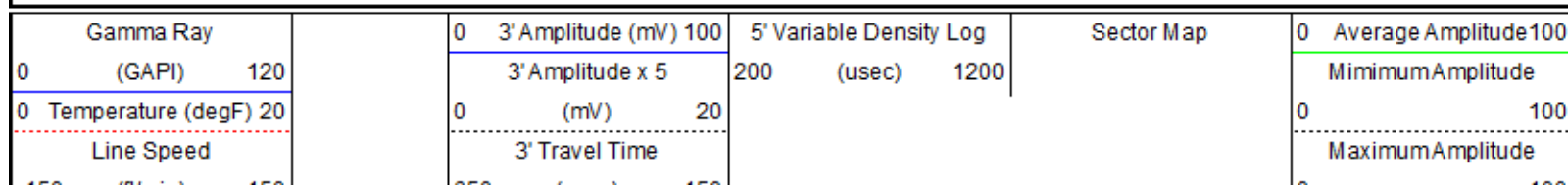
Database File 0512345461_anadarko_speak fed 32n2-5hz_rbl_04-25-18\processed_0512345461_anadarko_speak fed 32n2-5hz_rbl_04-25-18

Dataset Pathname 2800/pass3.2

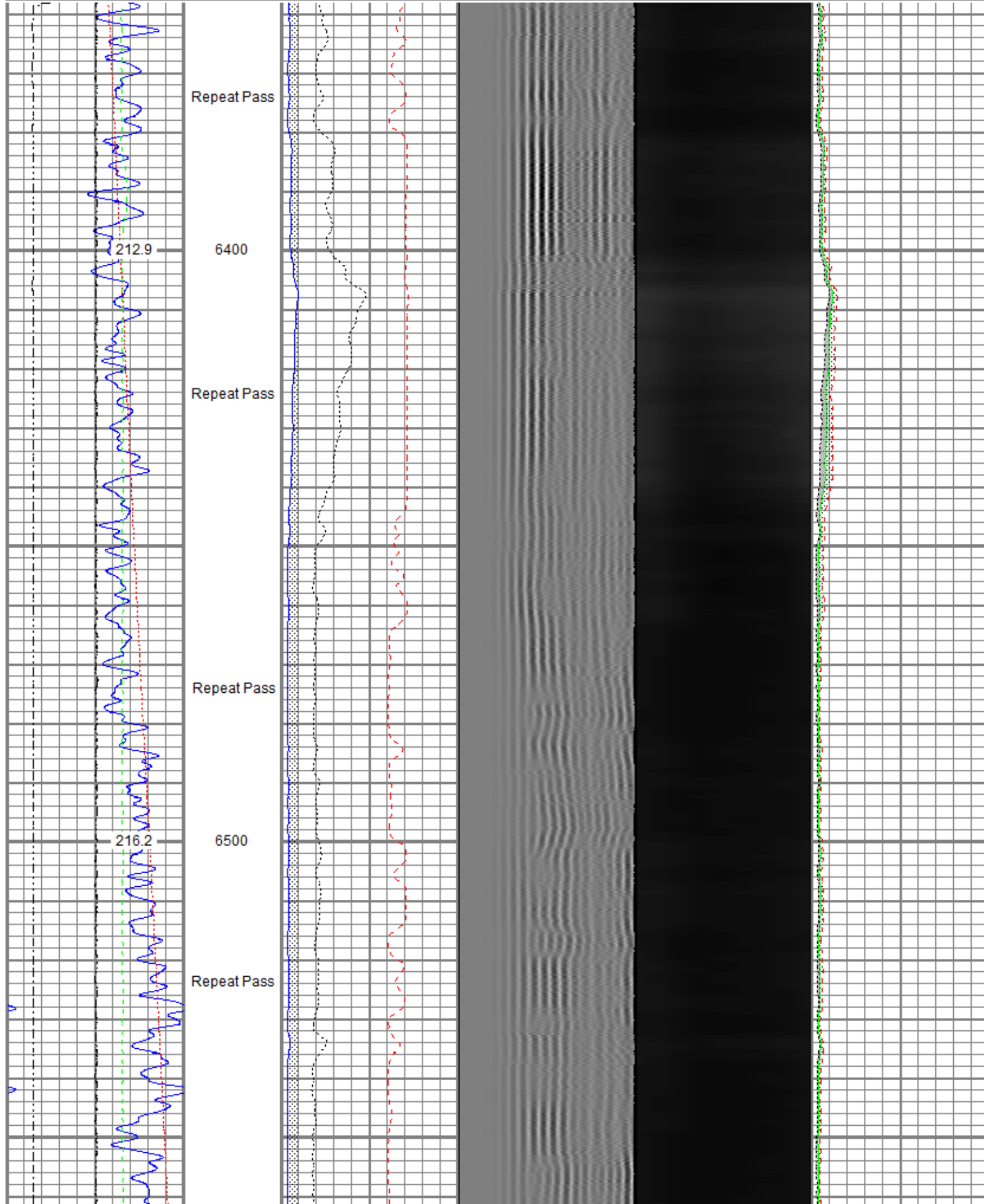
Presentation Format ros_radri

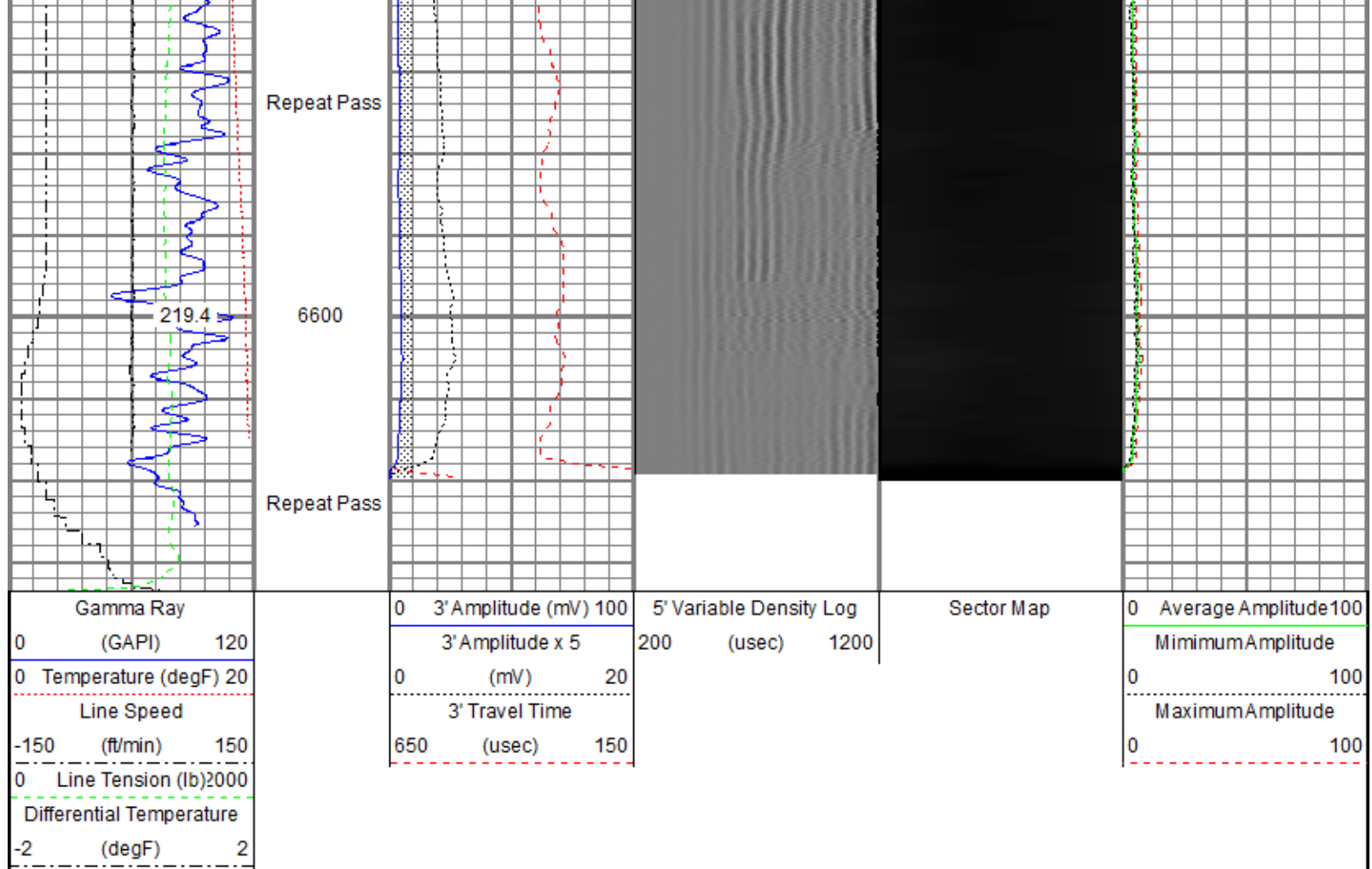
Dataset Creation Thu Apr 26 10:57:30 2018

Charted by Depth in Feet scaled 1:240

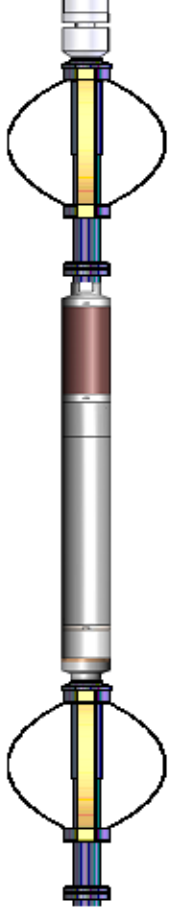
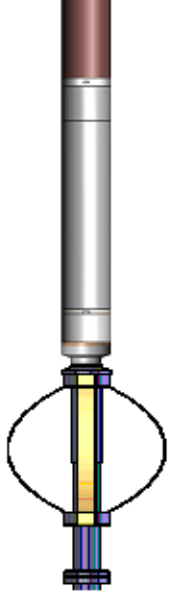


-150	(in/min)	150
0	Line Tension (lb)	2000
-2	Differential Temperature (degF)	2





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" Fishing Neck	1.03	1.44	3.60
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
			Probe Radii-2750 RBT (FW1308-091) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
TEMP	17.33					
WVFS8	15.09					
WVFS7	15.09					
WVFS6	15.09					
WVFS5	15.09					
WVFS4	15.09					
WVFS3	15.09					
WVFS2	15.09					
WVFS1	15.09					

WVFCAL	15.09		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
WVF3FT	15.09					
WVF5FT	14.09					
HEADVOLT	10.84					
CCL\$2	7.08		Probe GR-CCL-2750 6PB (FW1304-134) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00
CCL\$1	7.08					
GR	5.75					
			Probe ADPT-6P-GO Probe 2-3/4" 6-Pin Top to GO Bottom Adaptor Sub	0.28	2.75	2.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Dataset: PROCESSED_0512345461_Anadarko_Speak Fed 32N2-5HZ_RBL_04-25-18.db: field/well/2800/pass5 Total length: 24.15 ft Total weight: 225.60 lb O.D.: 2.75 in						

Calibration Report	
Database File	c:\programdata\warrior\data\0512345461_anadarko_speak fed 32n2-5hz_rbl_04-25-18\processed_0512345461_anadarko_spe
Dataset Pathname	2800/pass5.2
Dataset Creation	Thu Apr 26 10:25:14 2018

Gamma Ray Calibration Report		
Serial Number:	FW1304-134	
Tool Model:	2750 6PB	
Performed:	Sun Nov 12 12:06:59 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	113.3	cps
Calibrator Reading:	1072.4	cps
Sensitivity:	0.6641	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1308-091	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	5.500	ft

Master Calibration, performed (Derived):						
Raw (v)		Calibrated (mv)		Results		
Zero	Cal	Zero	Cal	Gain	Offset	
0.000	0.005	0.000	74.004	0.000	0.000	

3	0.006	0.295	0.800	71.921	246.491	-0.729
CAL	0.007	0.312				
5'	0.008	0.272	0.800	71.921	269.250	-1.373
SUM						
S1	0.005	0.291	0.000	100.000	349.445	-1.654
S2	0.009	0.330	0.000	100.000	311.555	-2.895
S3	0.011	0.357	0.000	100.000	289.199	-3.141
S4	0.008	0.339	0.000	100.000	302.151	-2.484
S5	0.006	0.300	0.000	100.000	339.658	-1.904
S6	0.006	0.271	0.000	100.000	377.122	-2.086
S7	0.006	0.257	0.000	100.000	397.670	-2.397
S8	0.006	0.267	0.000	100.000	382.038	-2.103

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.312	1.000	0.000

Air Zero Calibration, performed Wed Apr 25 09:59:44 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 Speak Fed 32N2-5HZ
Field Wattenberg
County Weld
State Colorado