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Comments



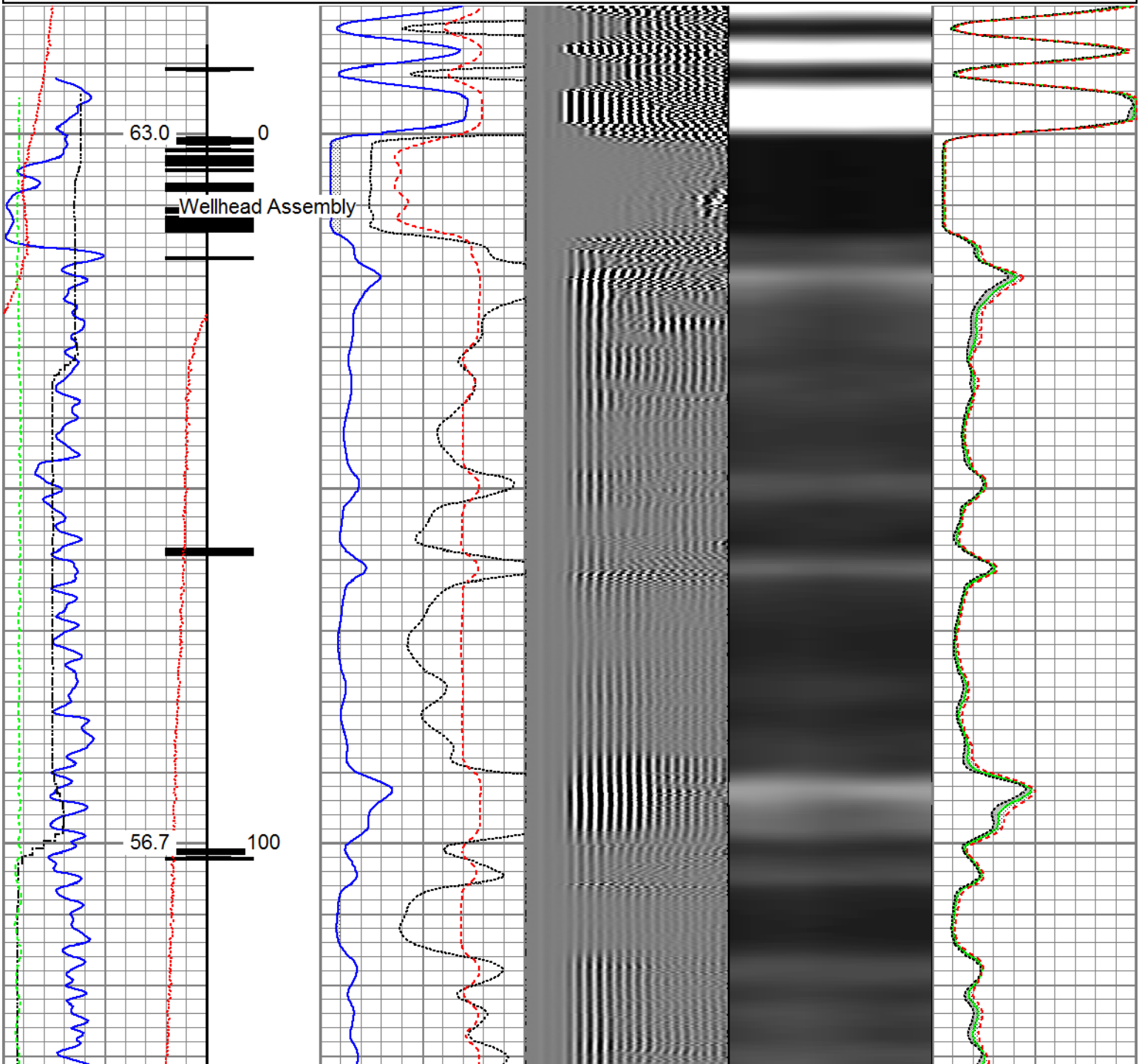
**RELIANCE**  
OILFIELD SERVICES

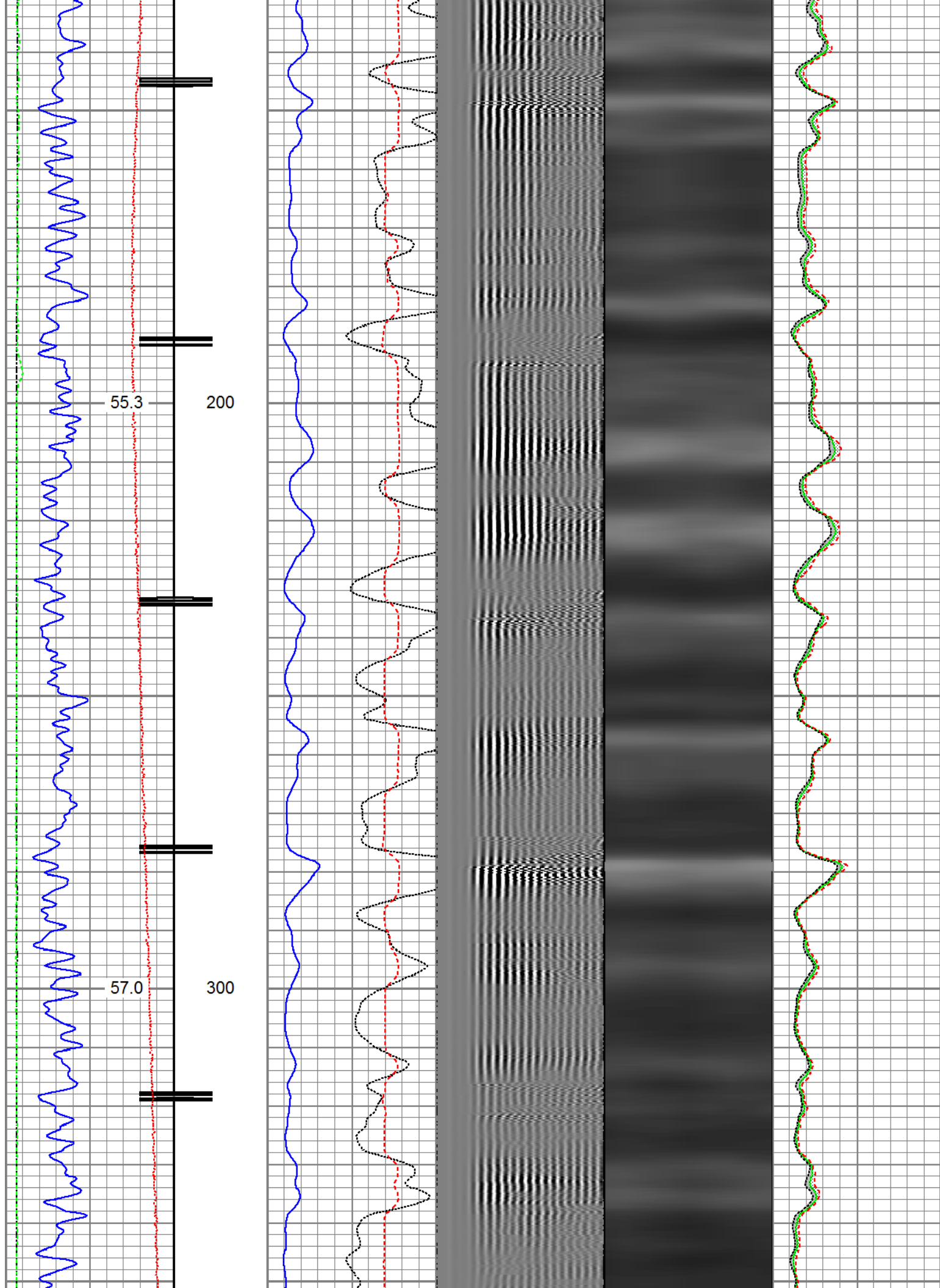
## Main Pass

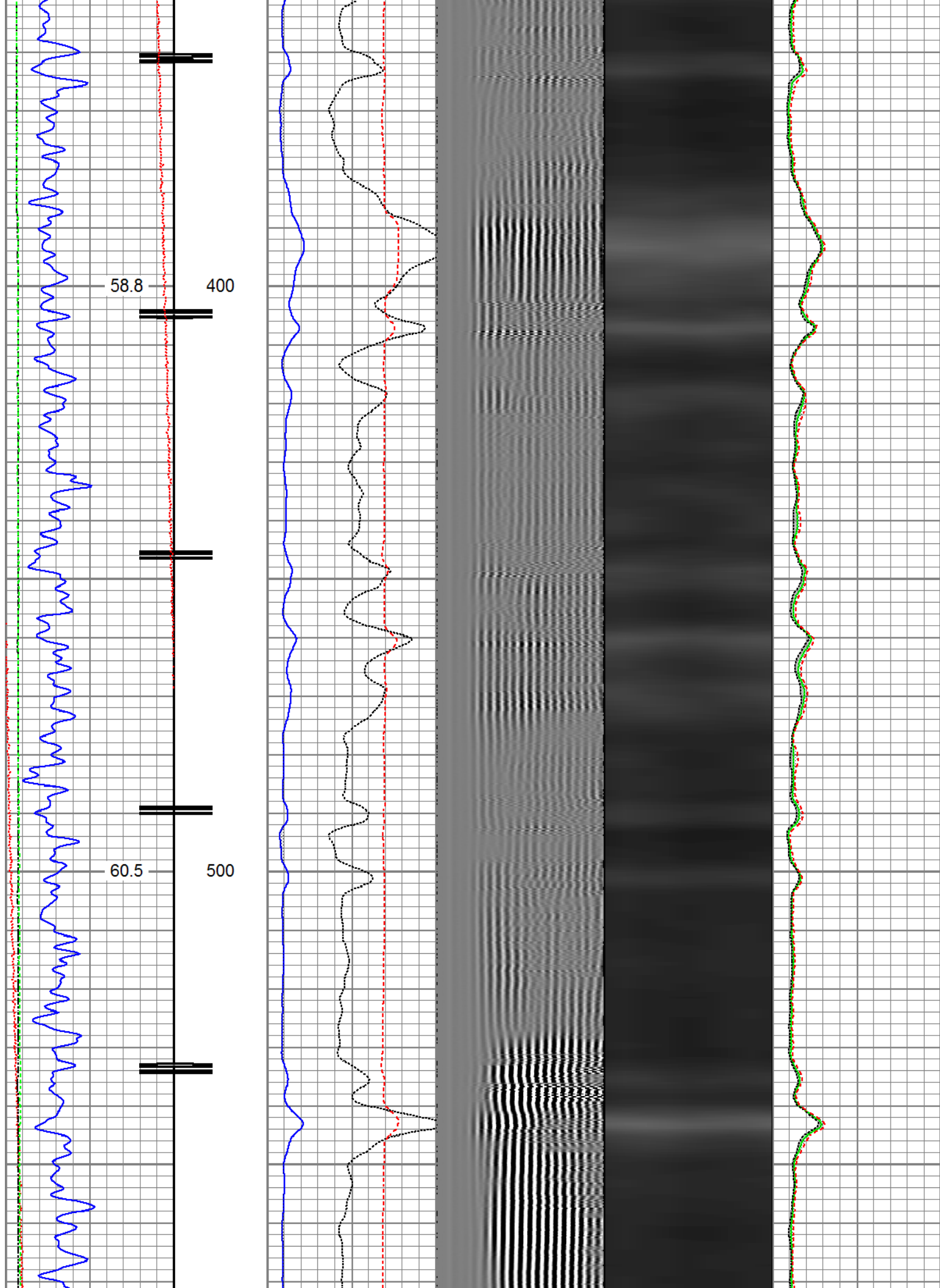
Recorded with 2800 PSI Surface Induced Pressure

Database File	anadarko_wilson_ranch_32n-n27hz_rbl\processed_0512341299_anadarko_wilson ranch 32n-n27hz
Dataset Pathname	Main.1
Presentation Format	ros_radrii
Dataset Creation	Wed Feb 15 12:36:15 2017
Charted by	Depth in Feet scaled 1:240

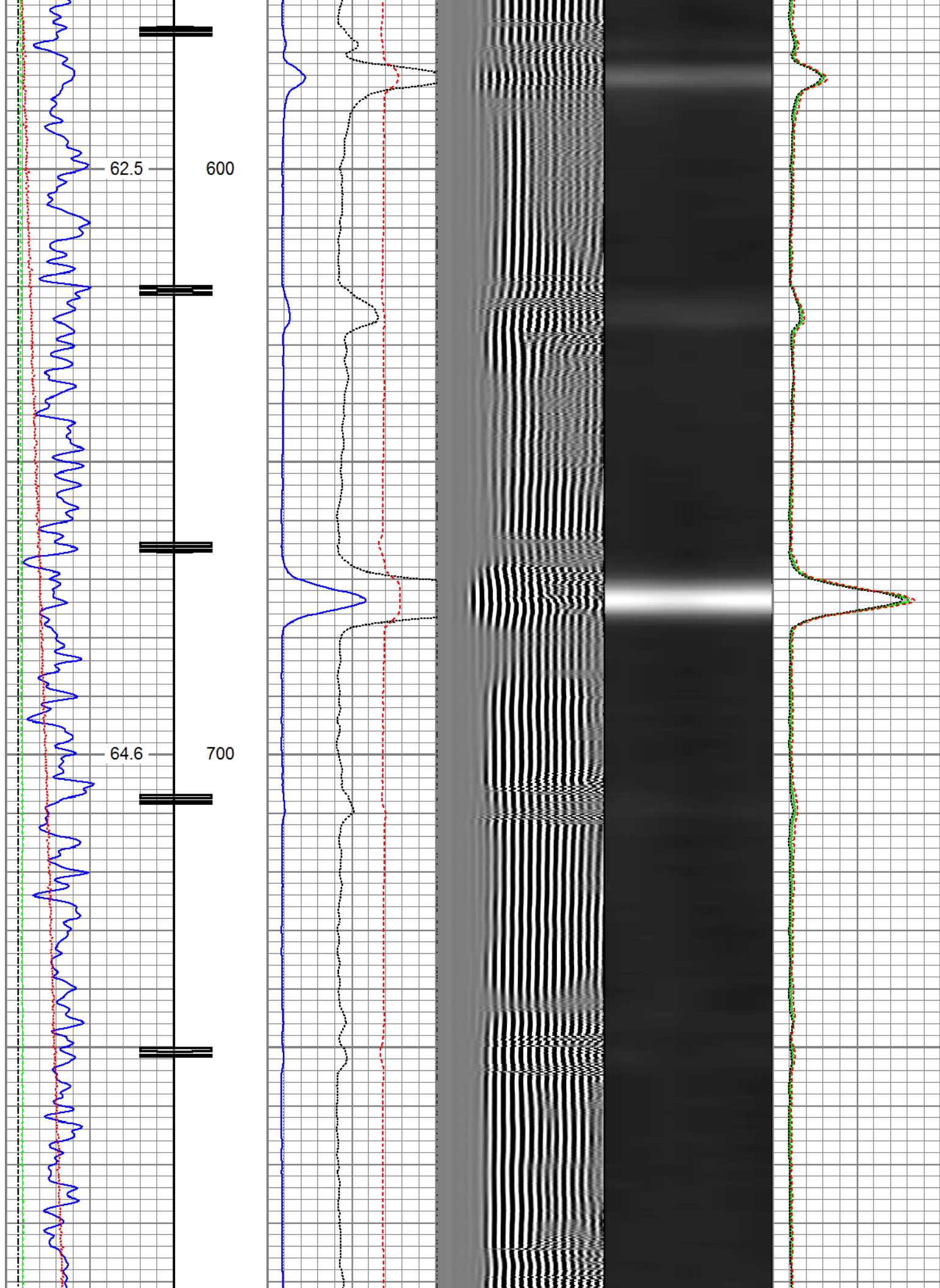
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
	0 (mV) 20			0 100
Temperature	3' Travel Time			Maximum Amplitude
0 (degF) 20	650 (usec) 150			0 100
Line Speed				
-150 (ft/min)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

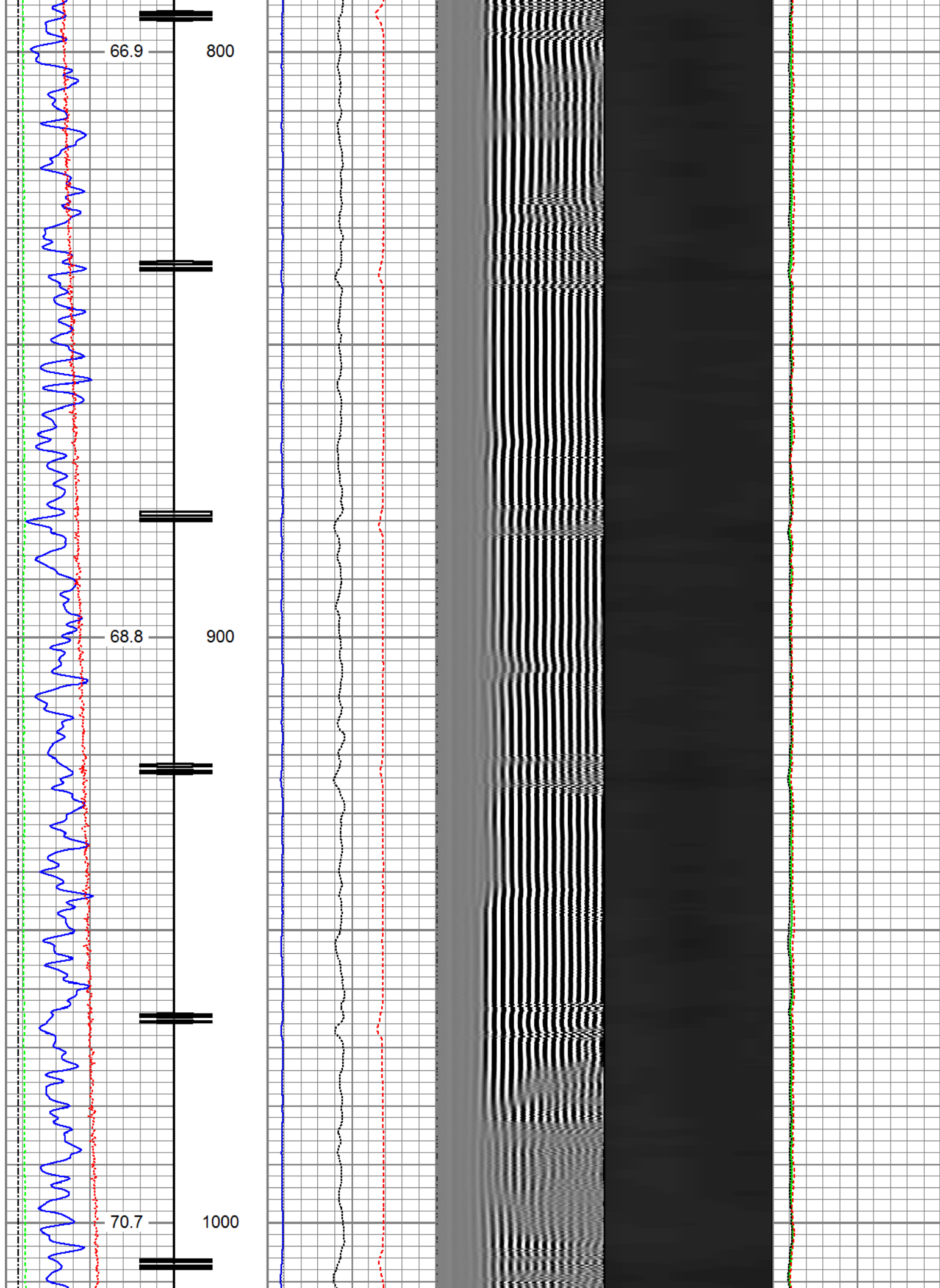


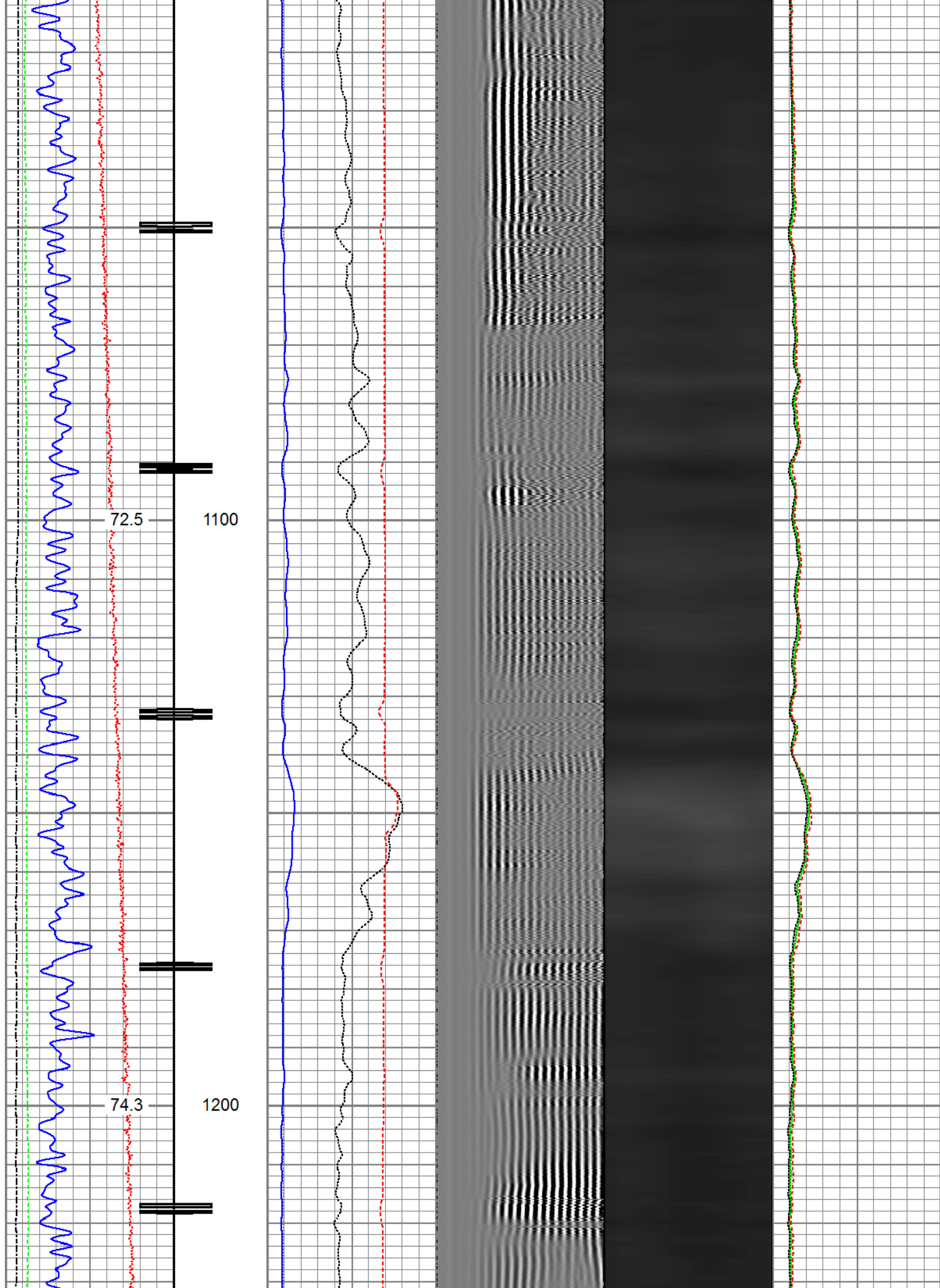


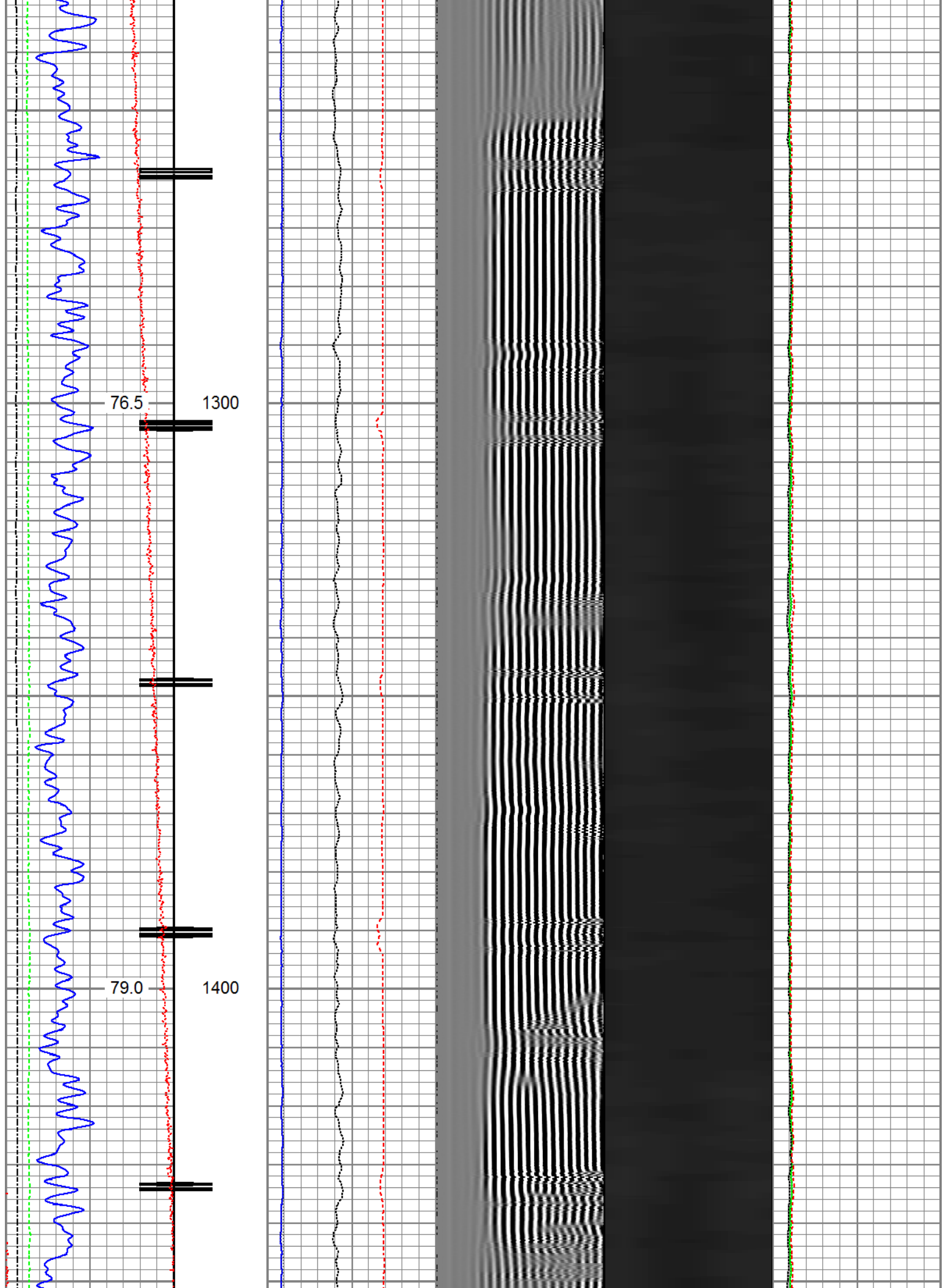




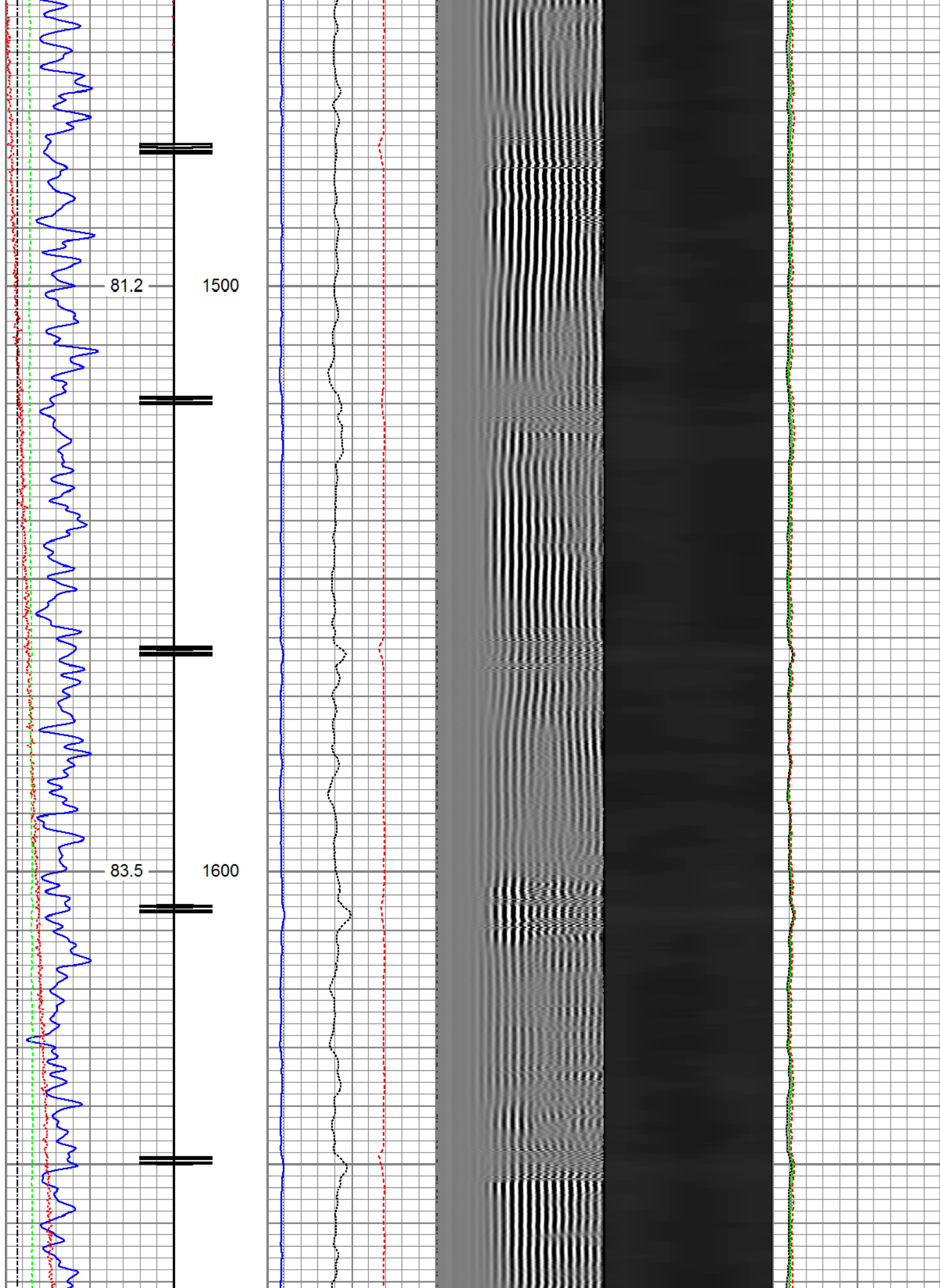


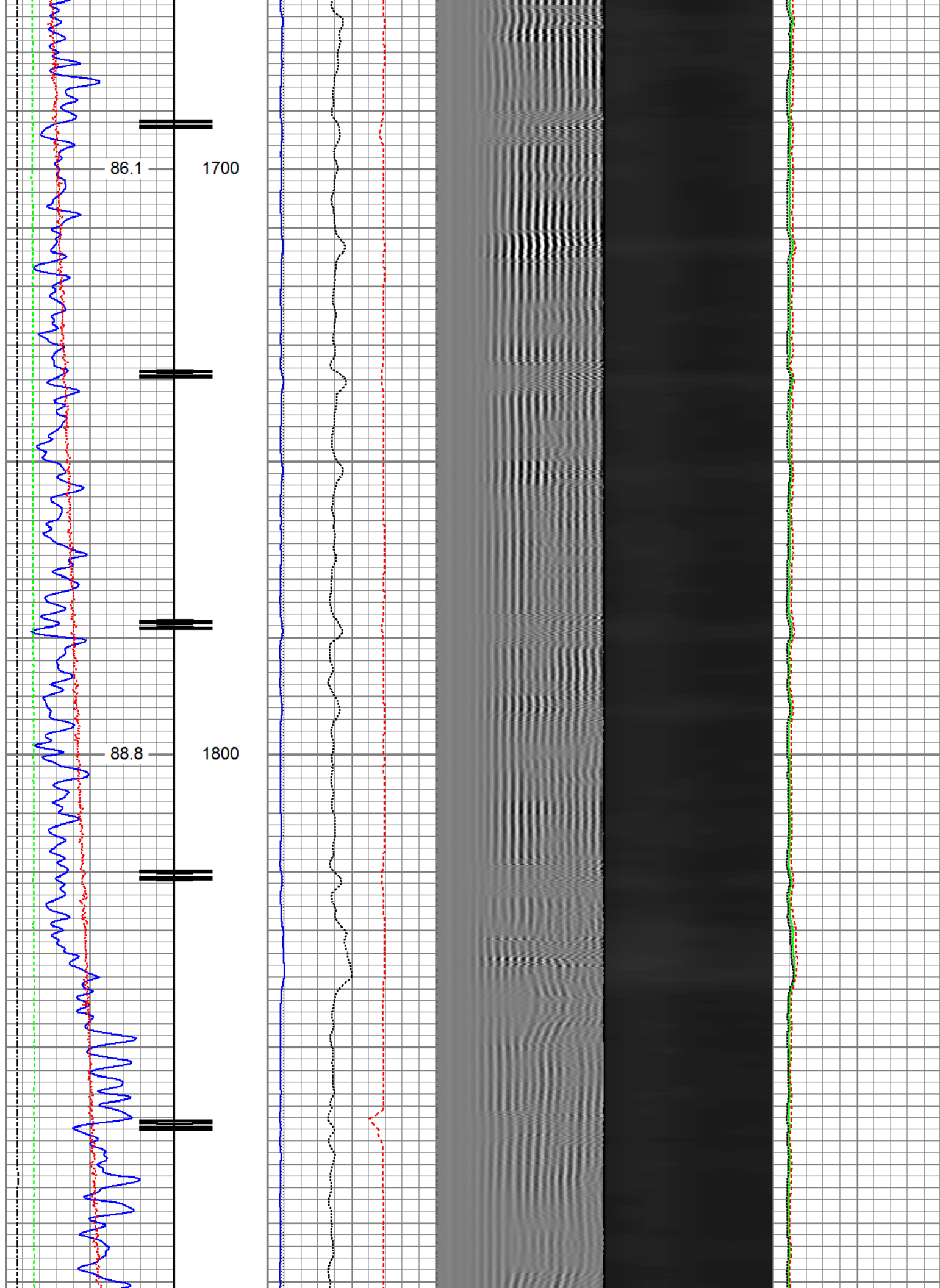


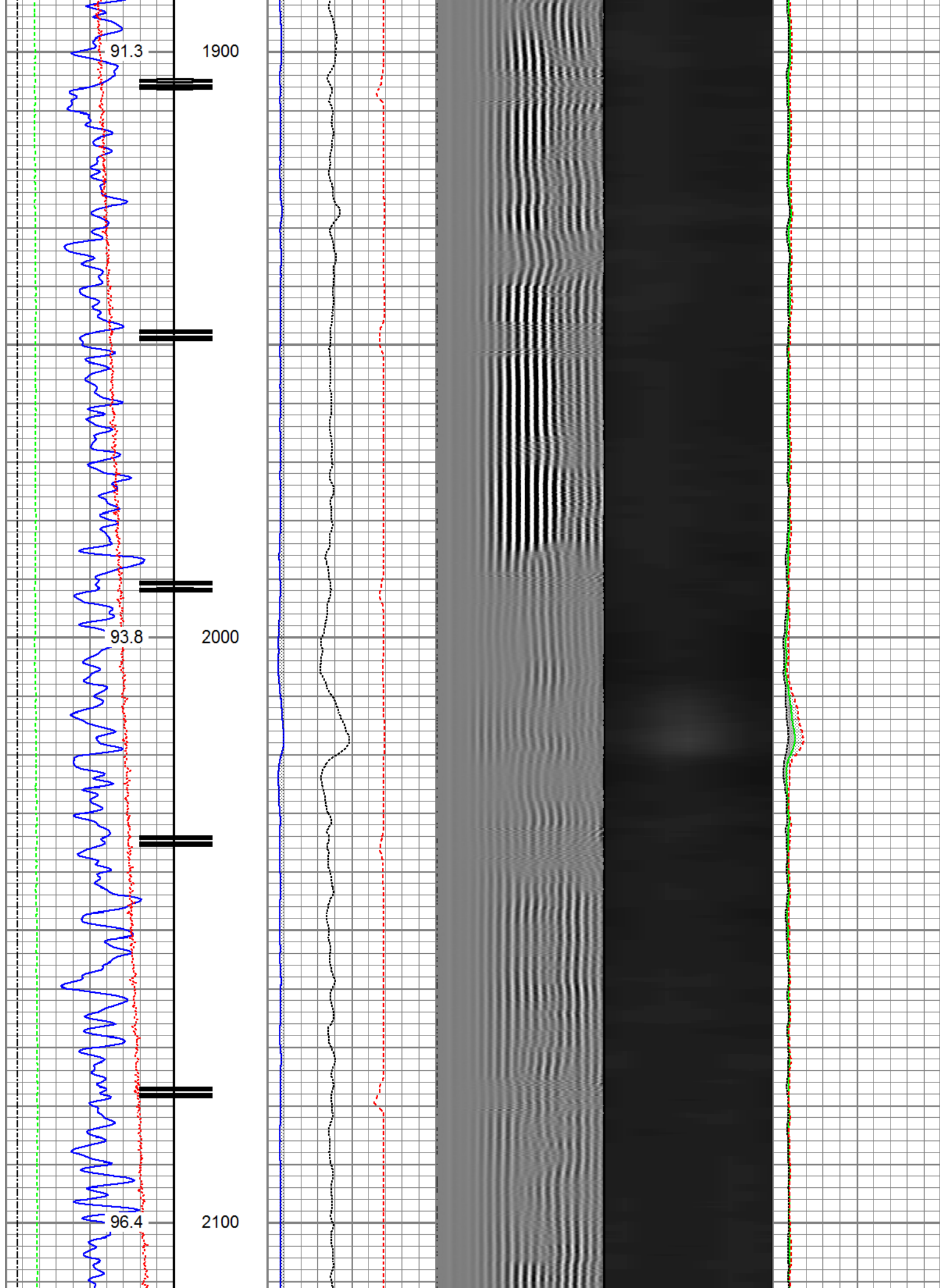


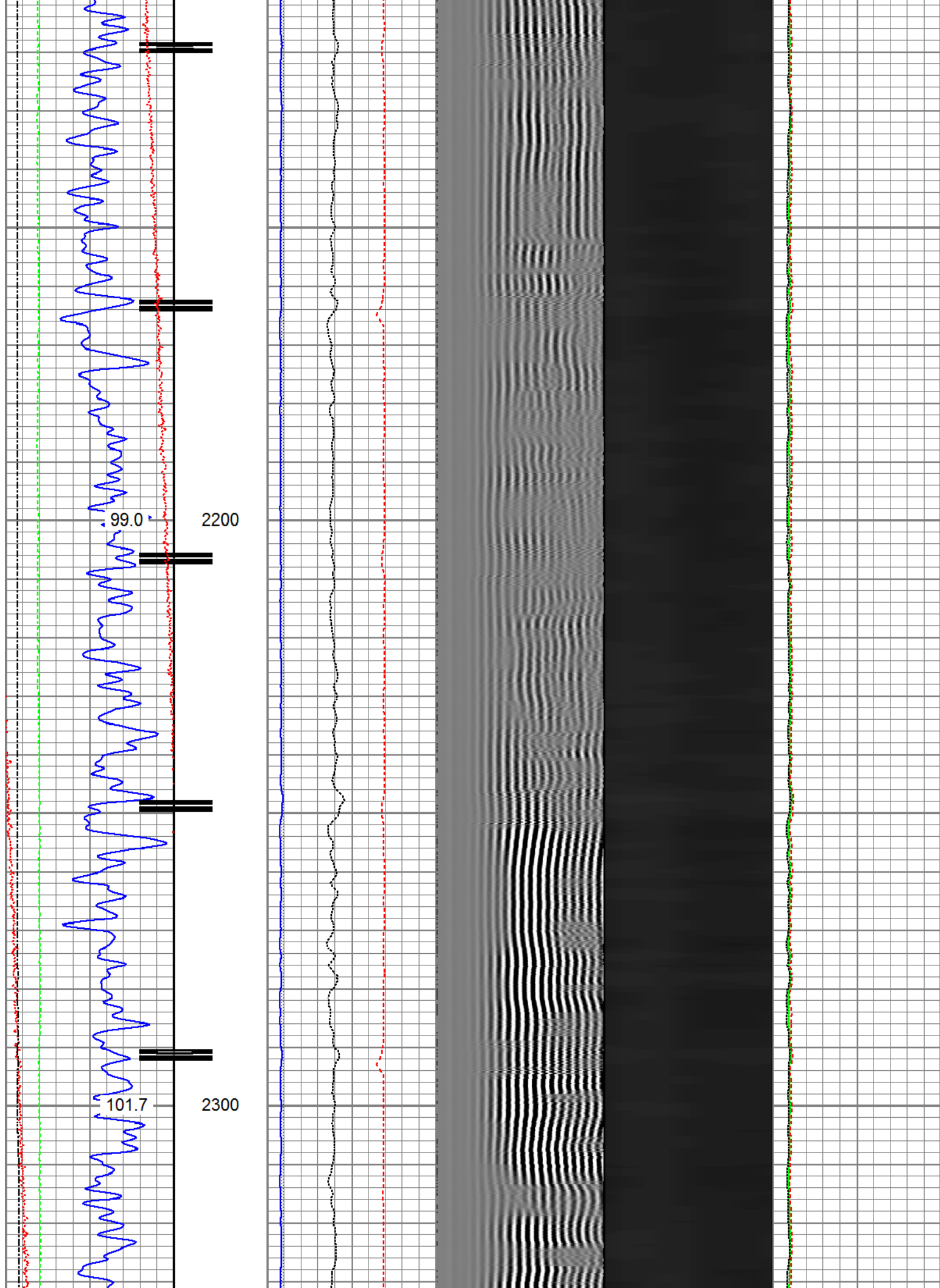




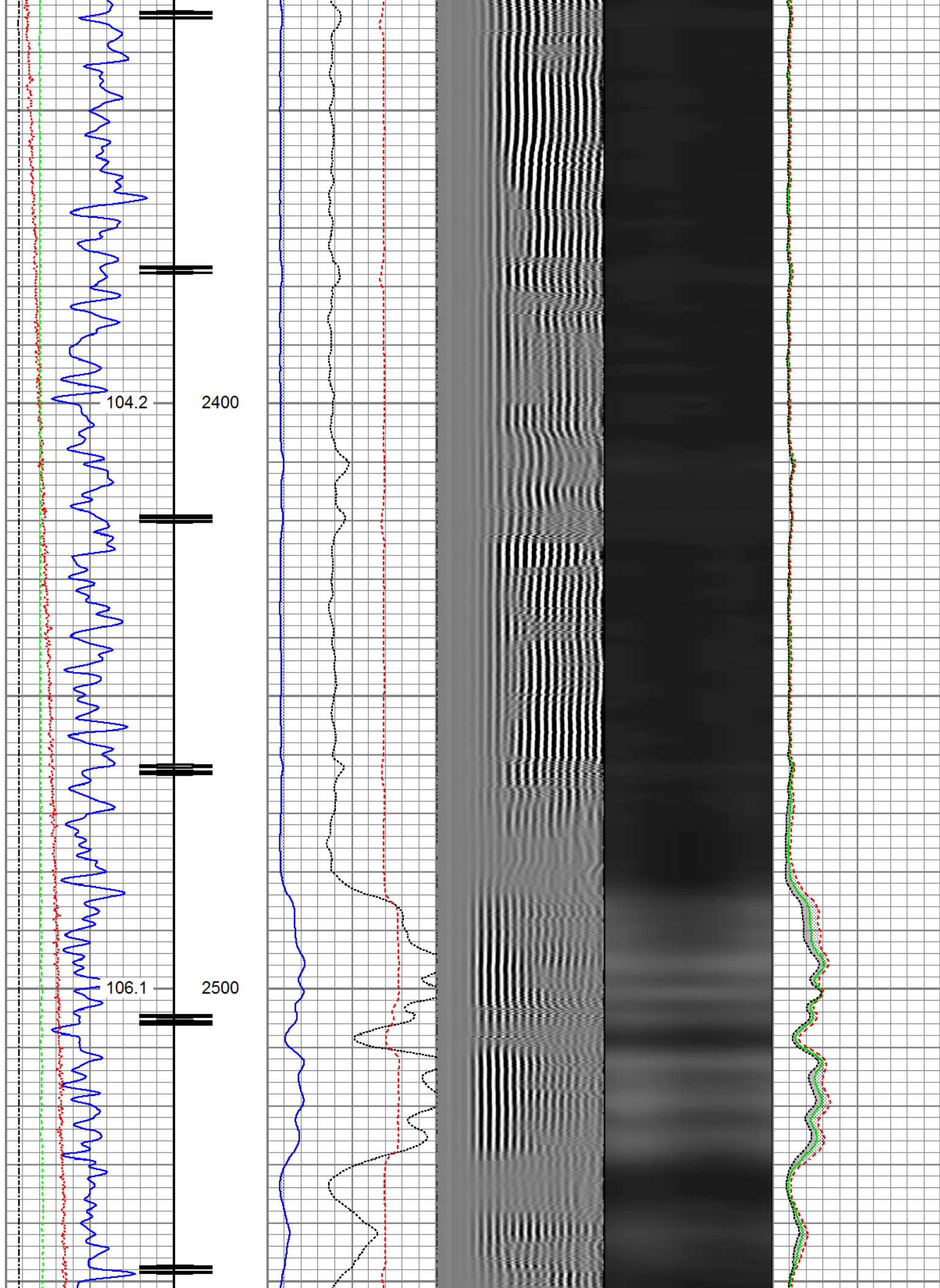


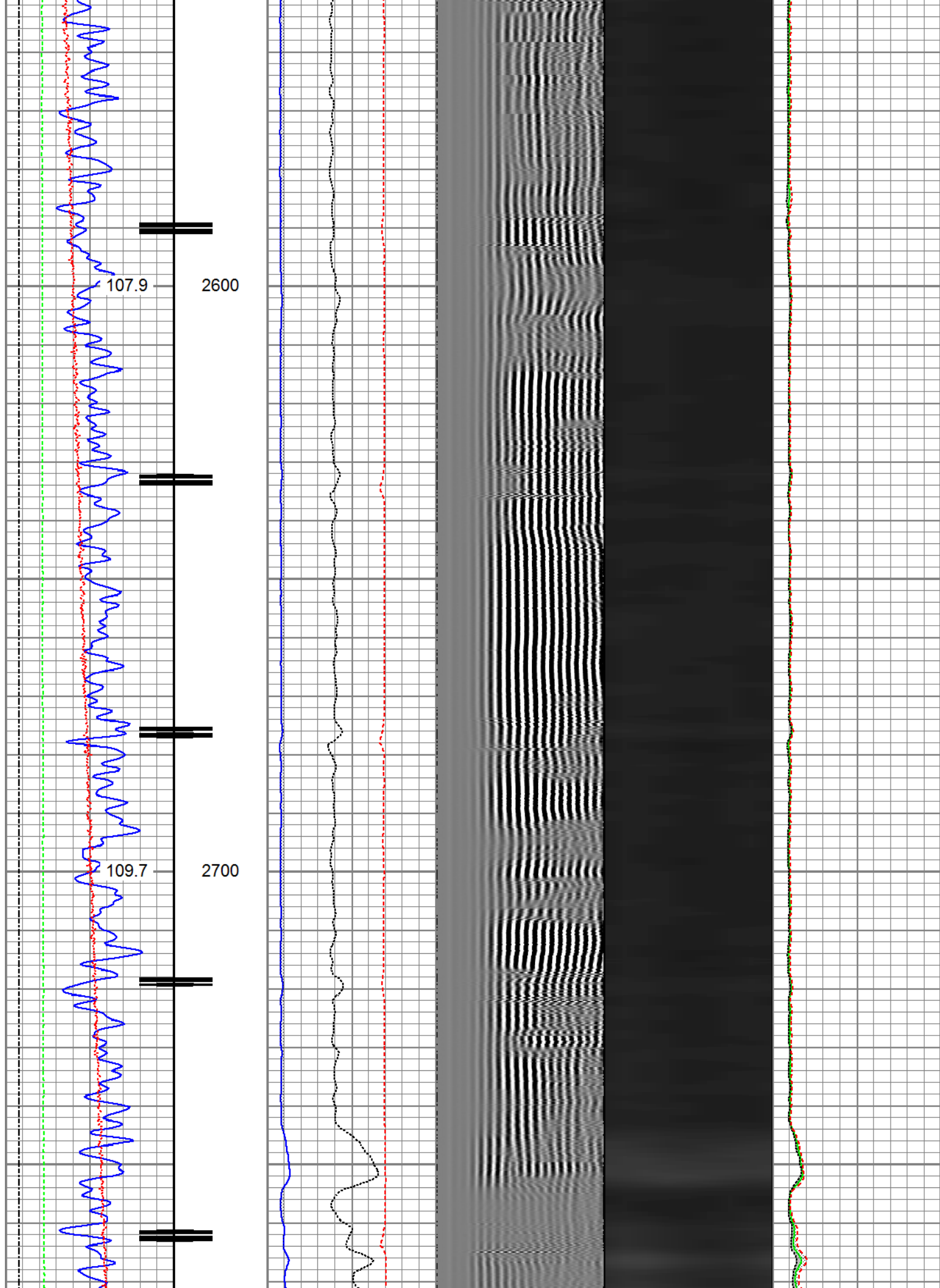


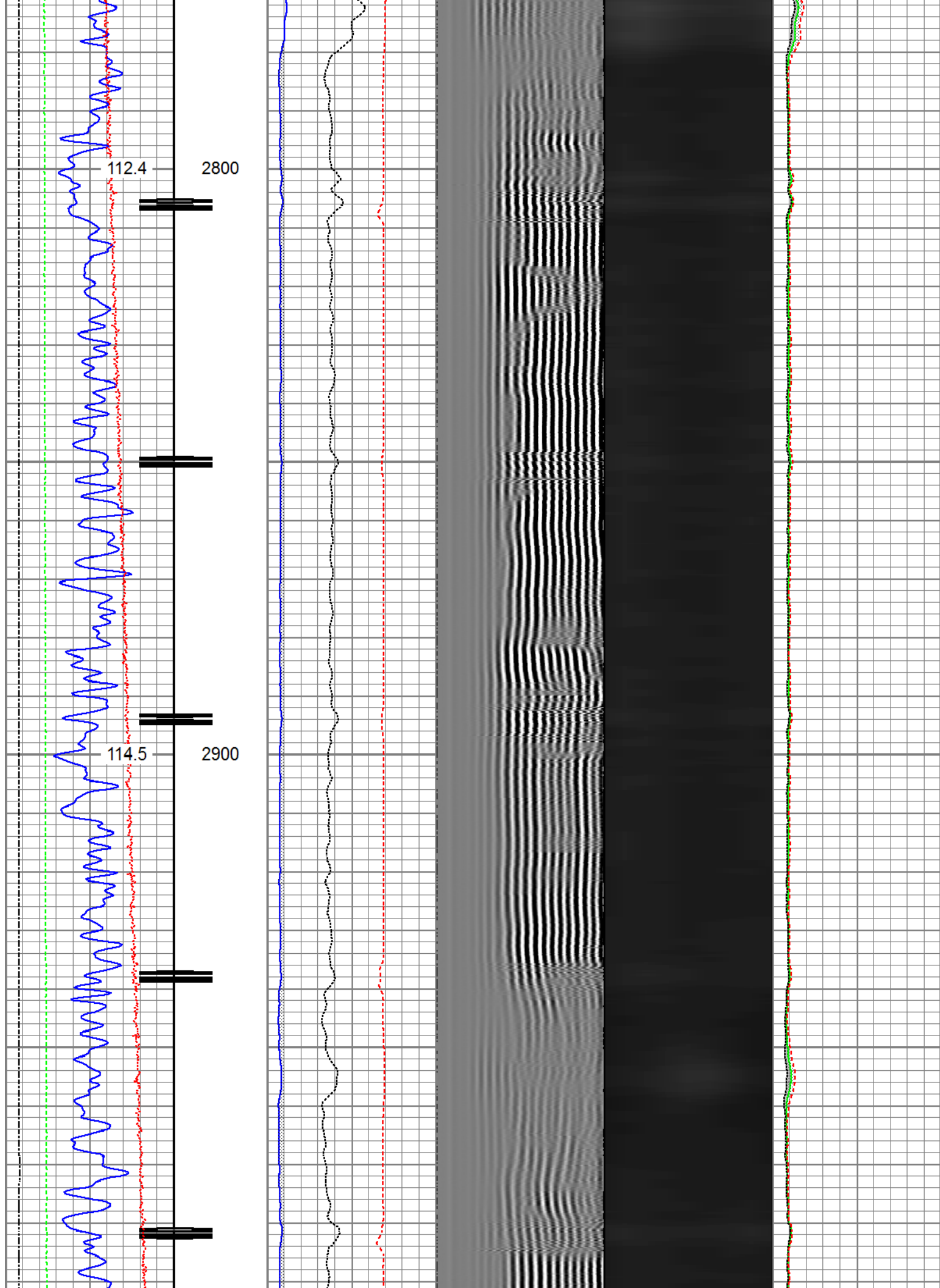


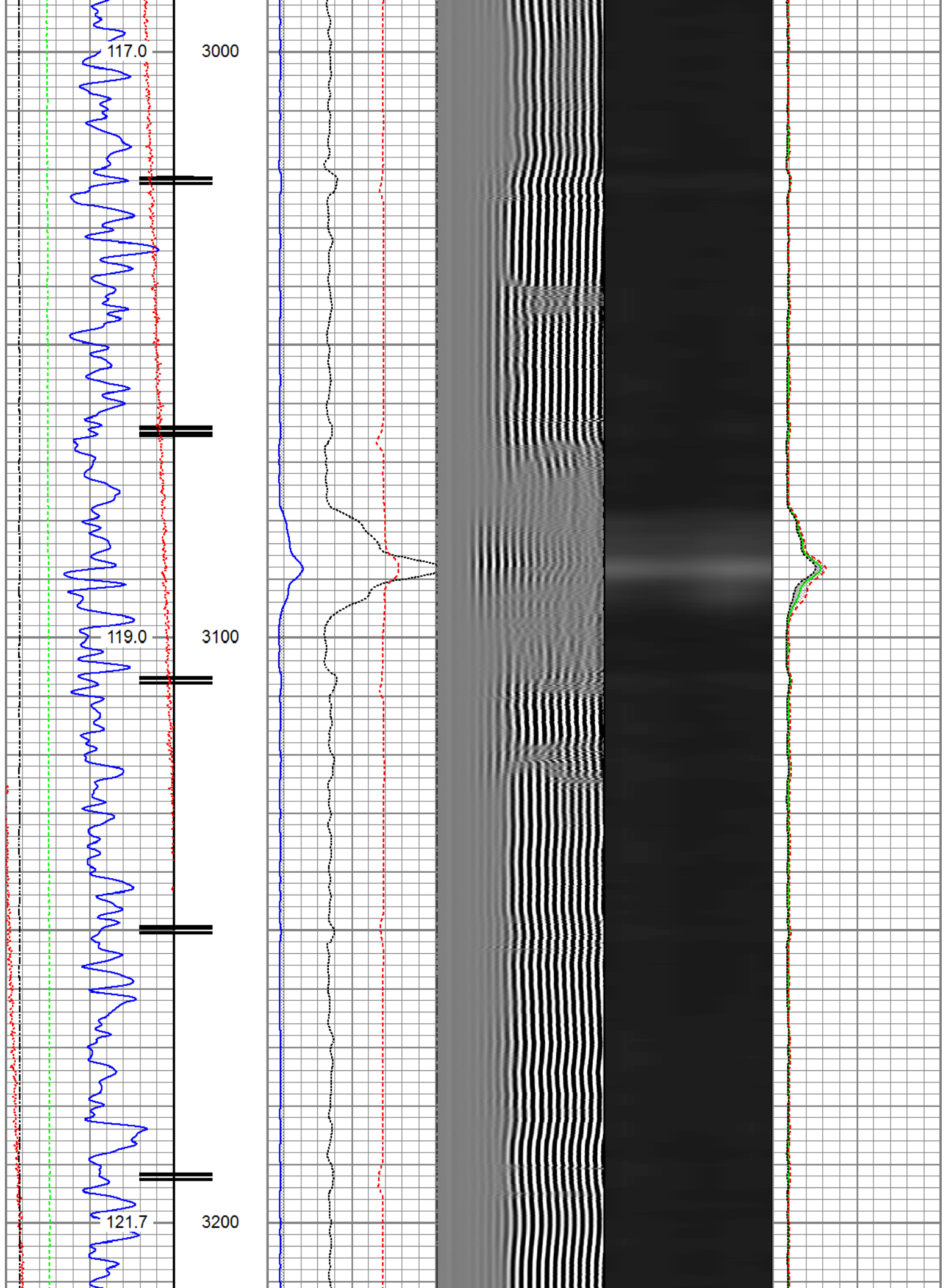




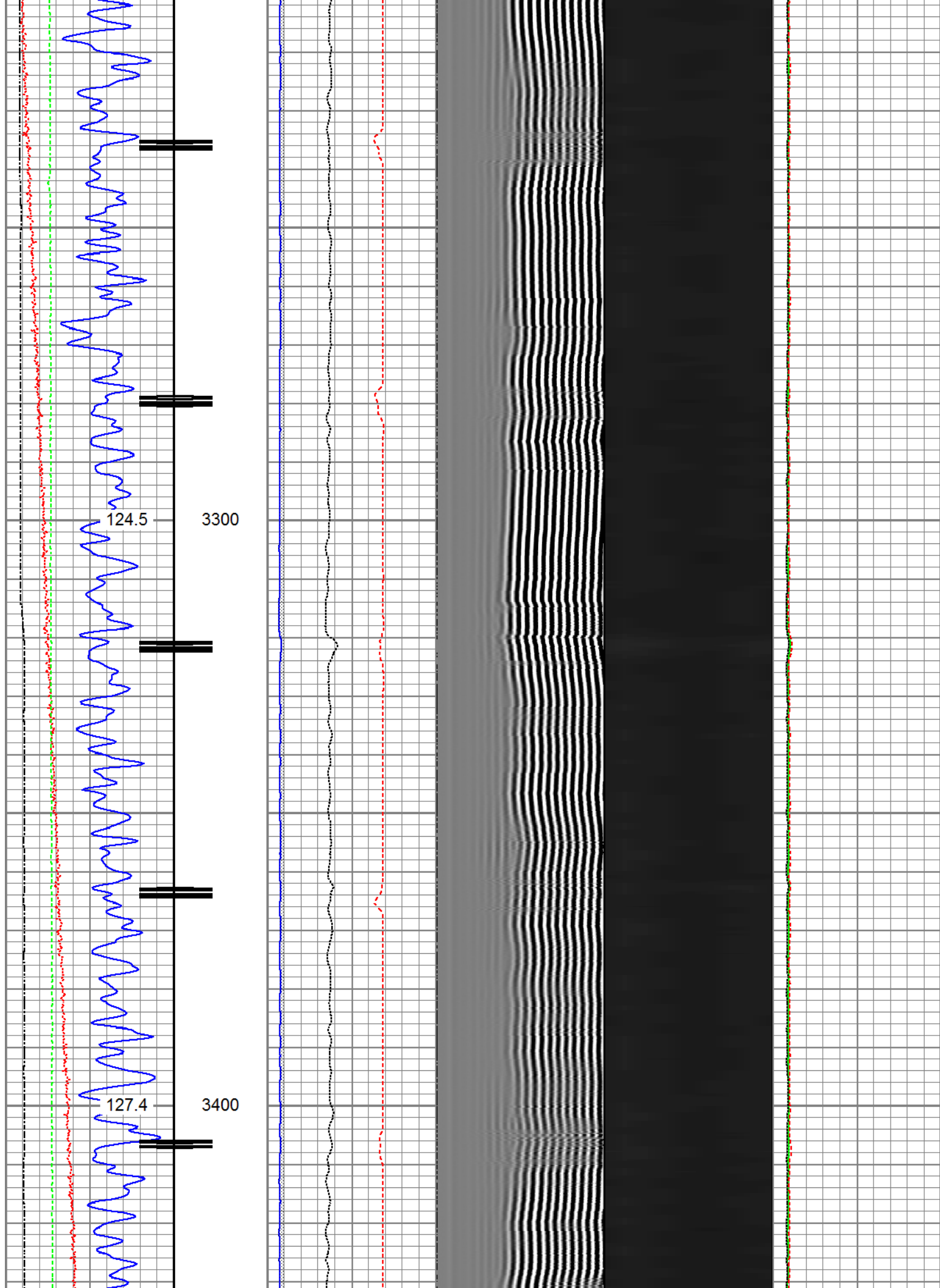


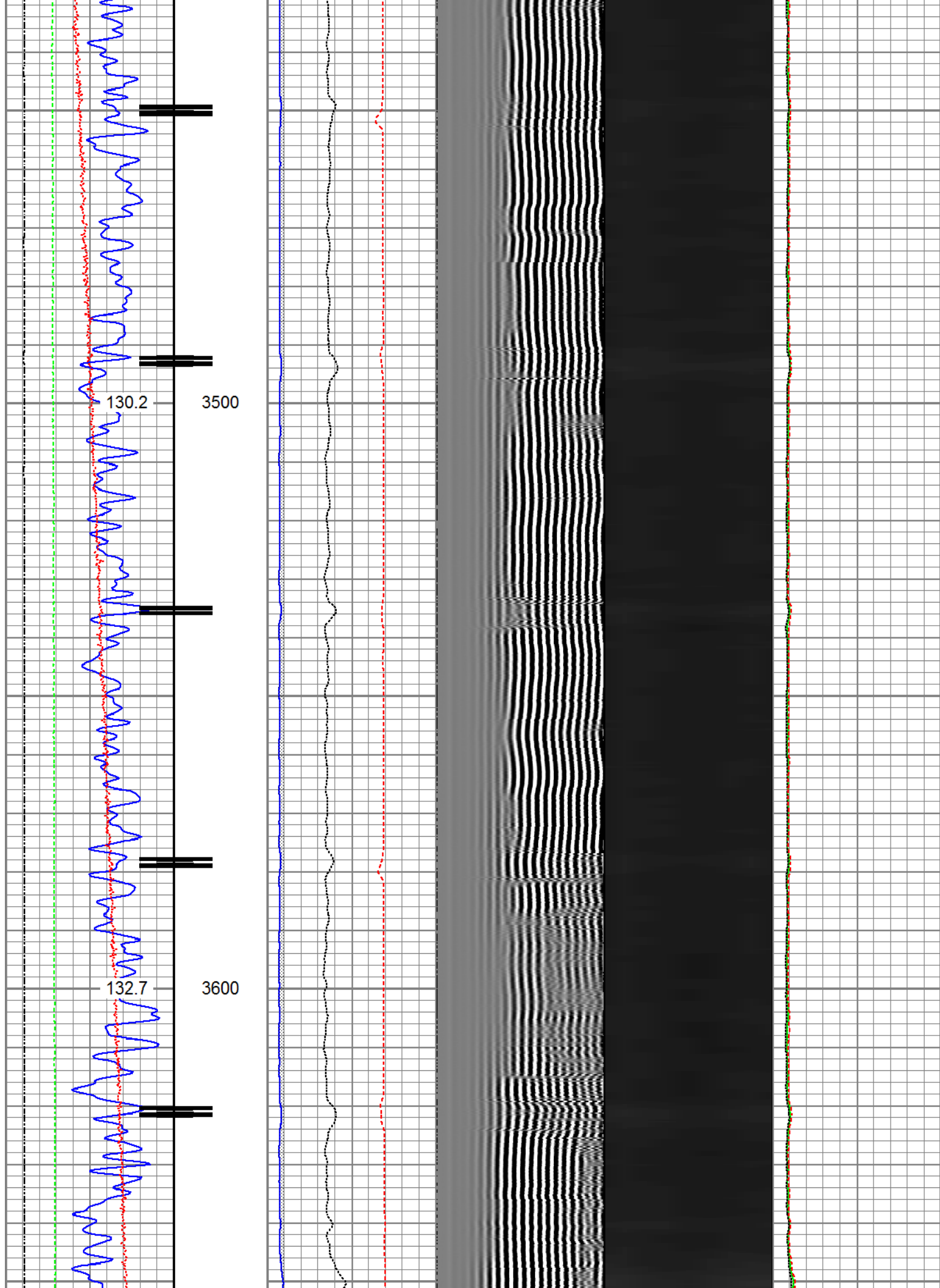


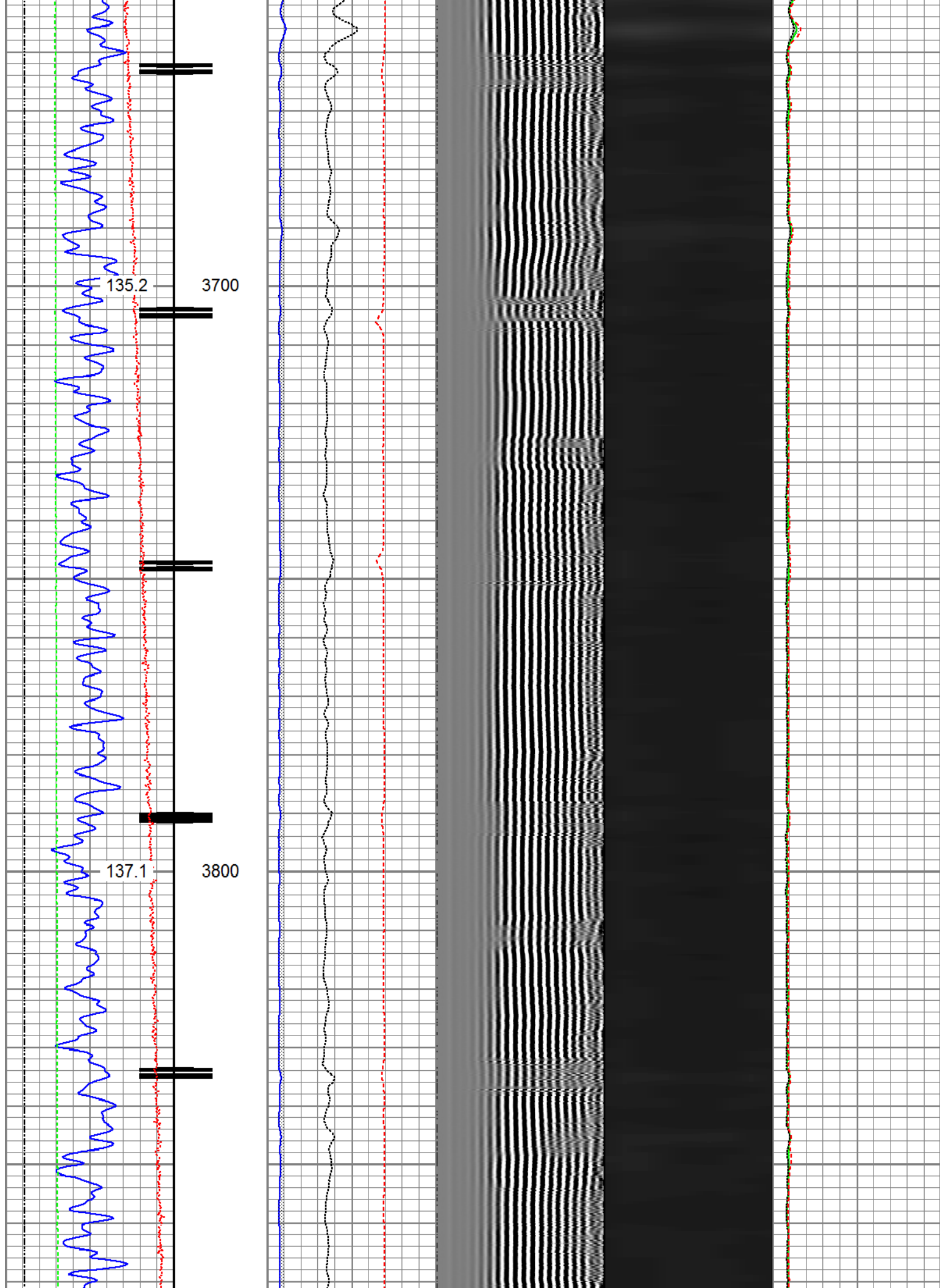


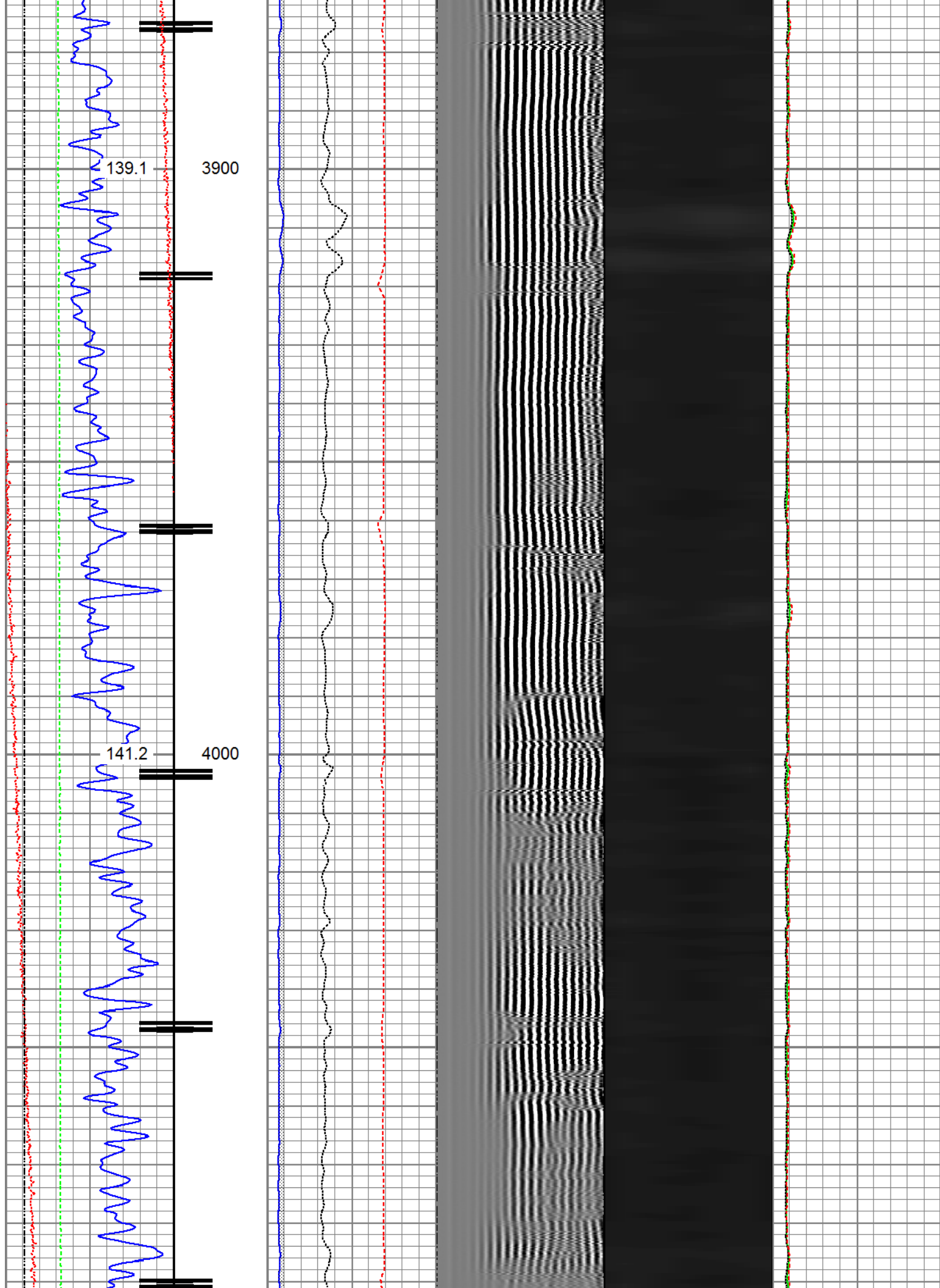




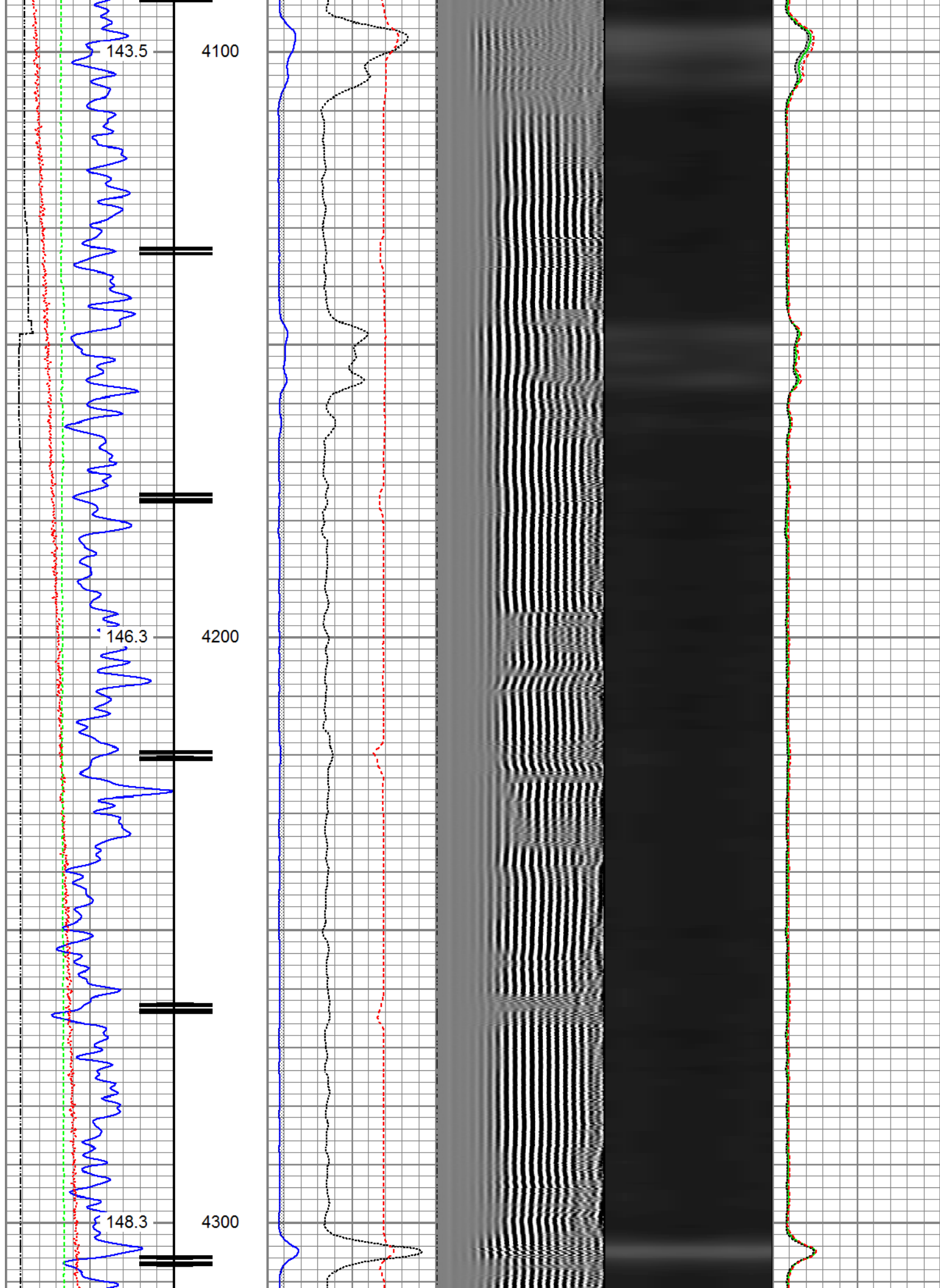


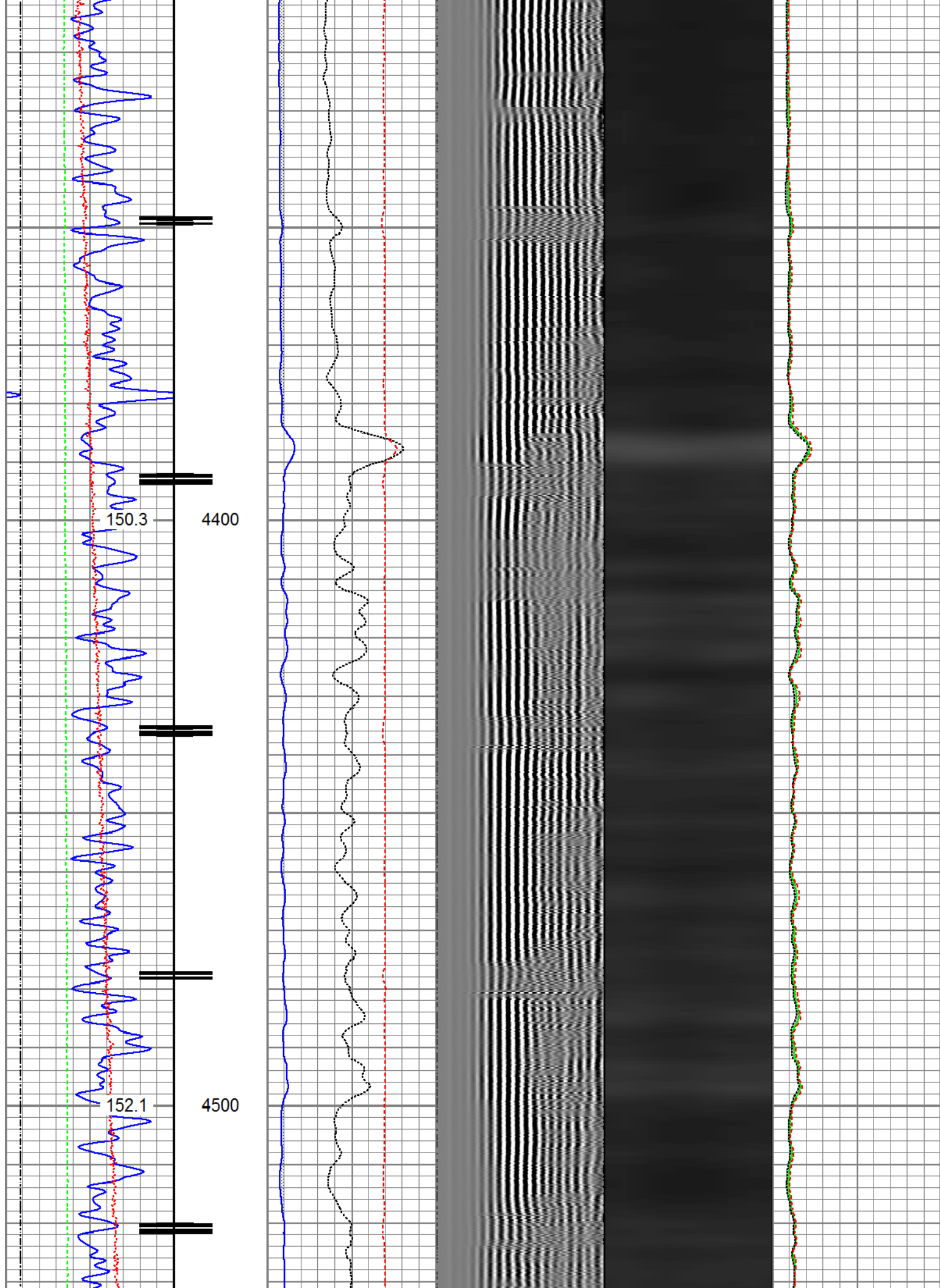


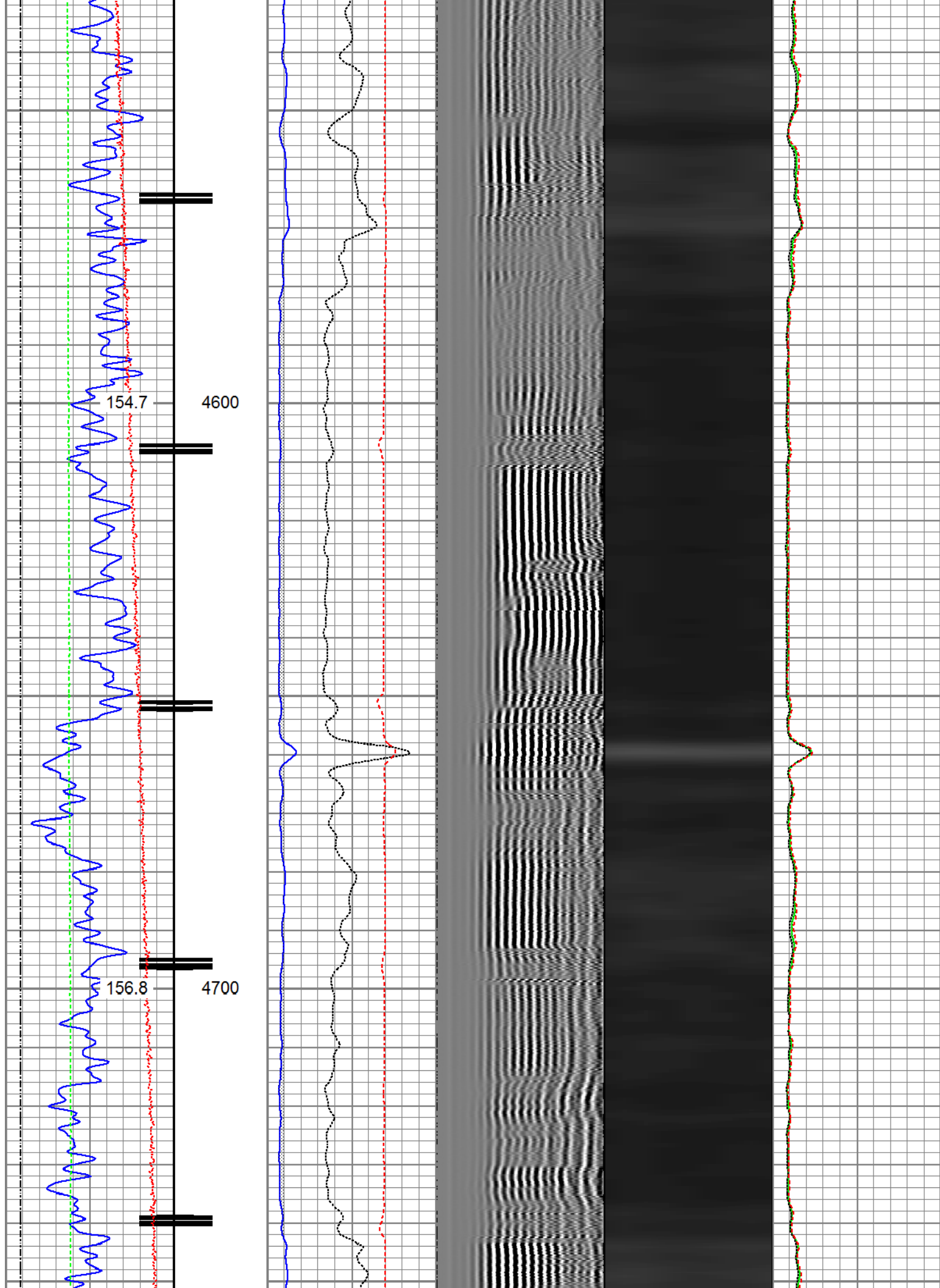


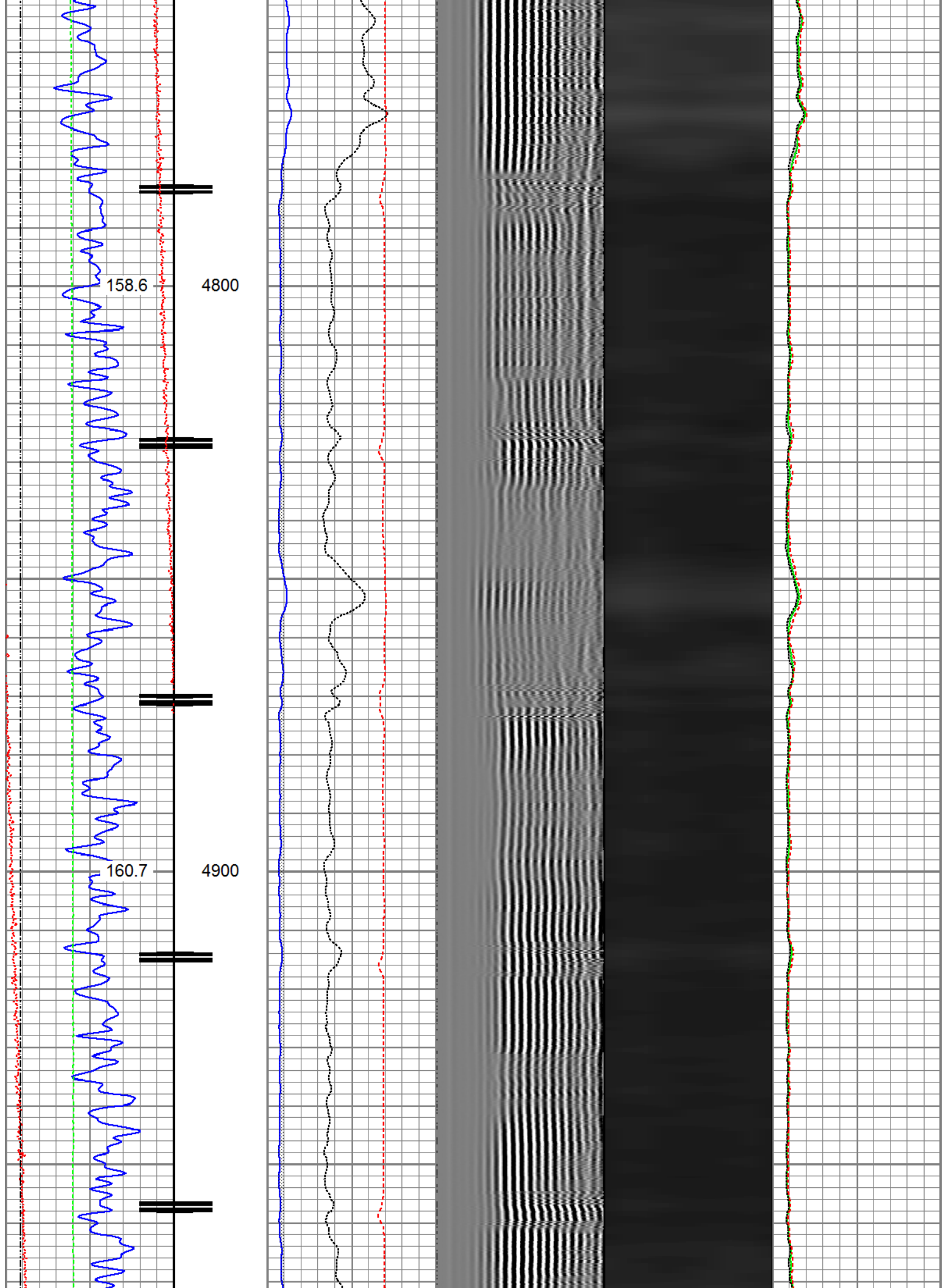




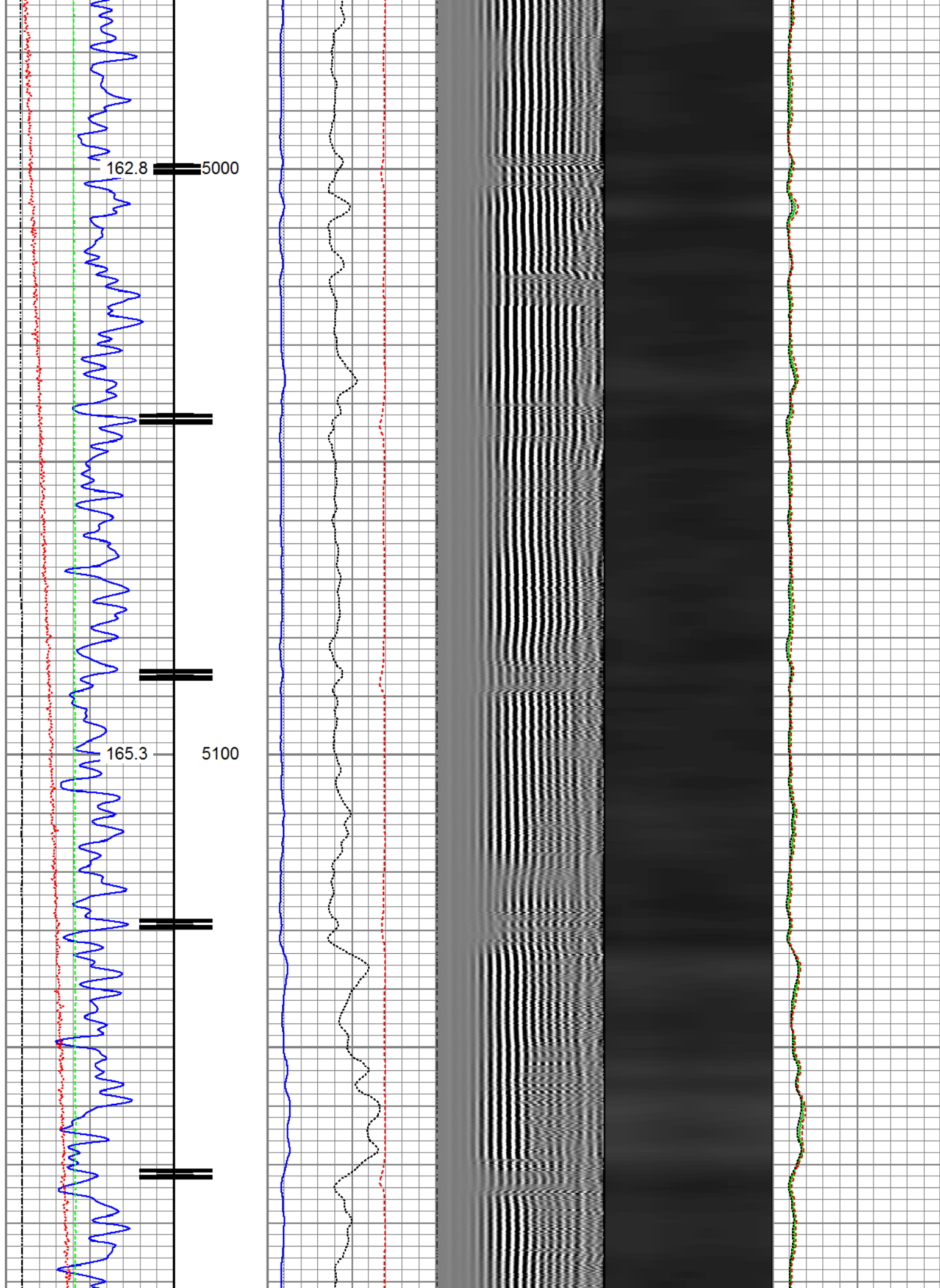


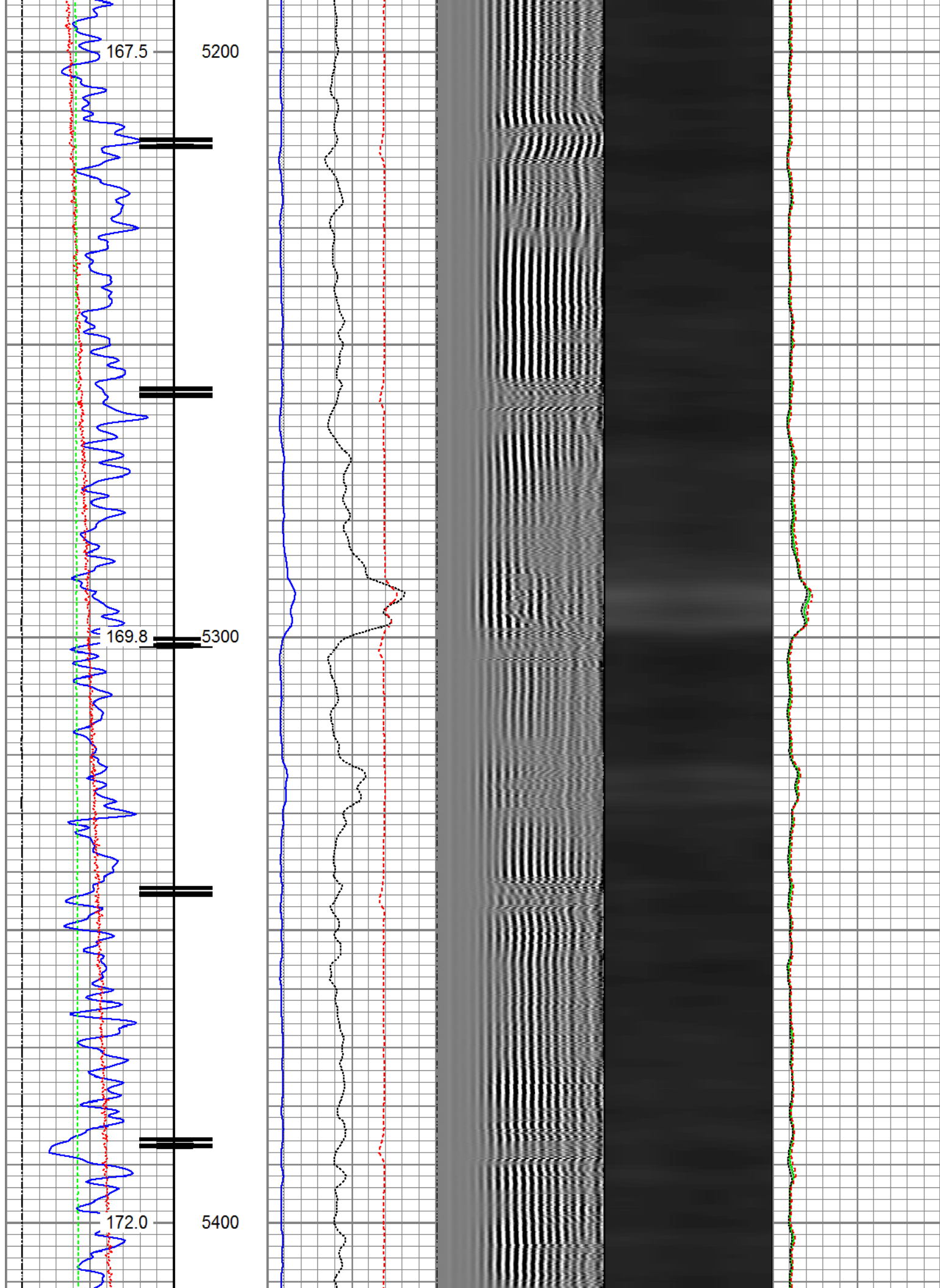


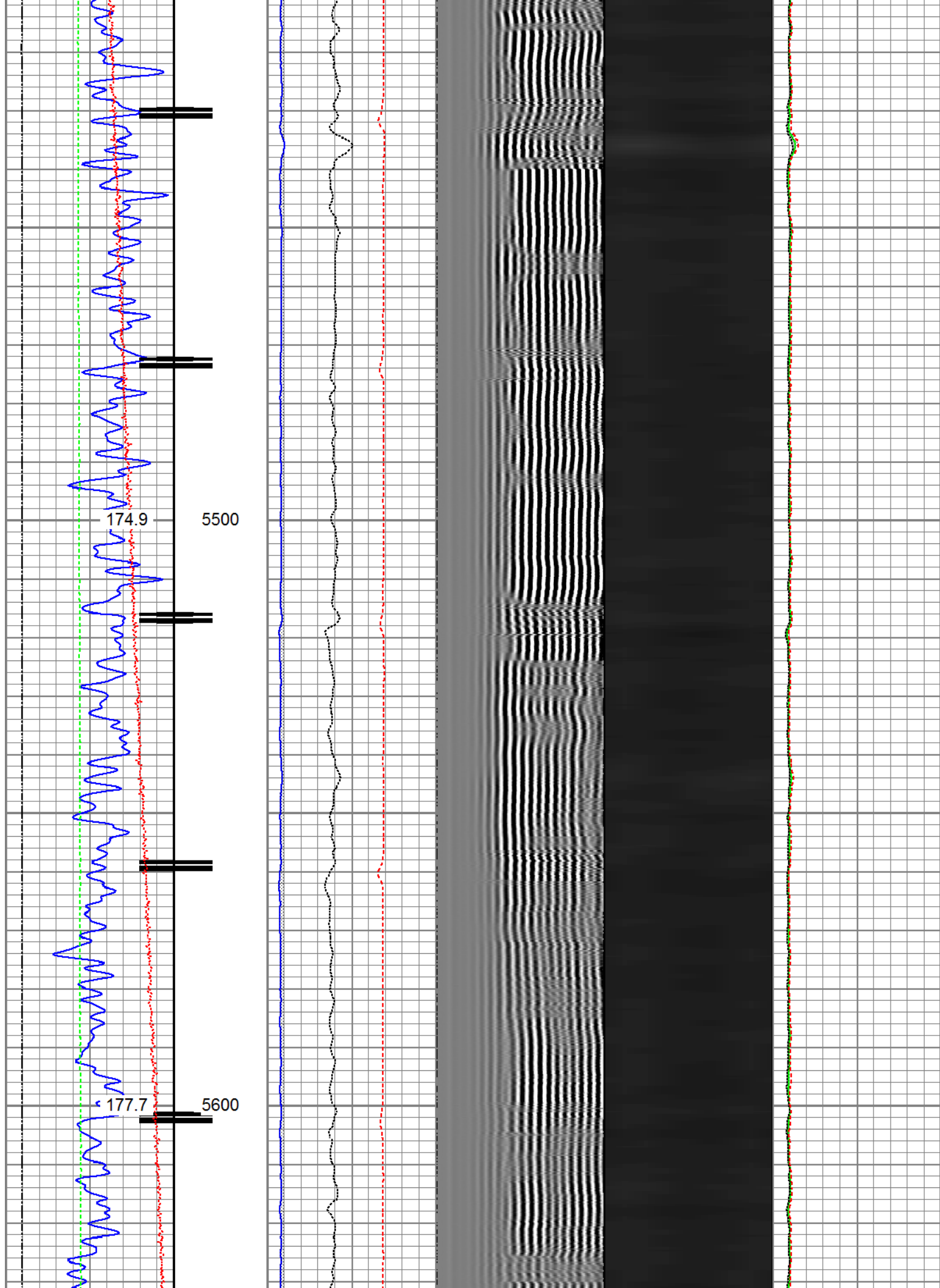


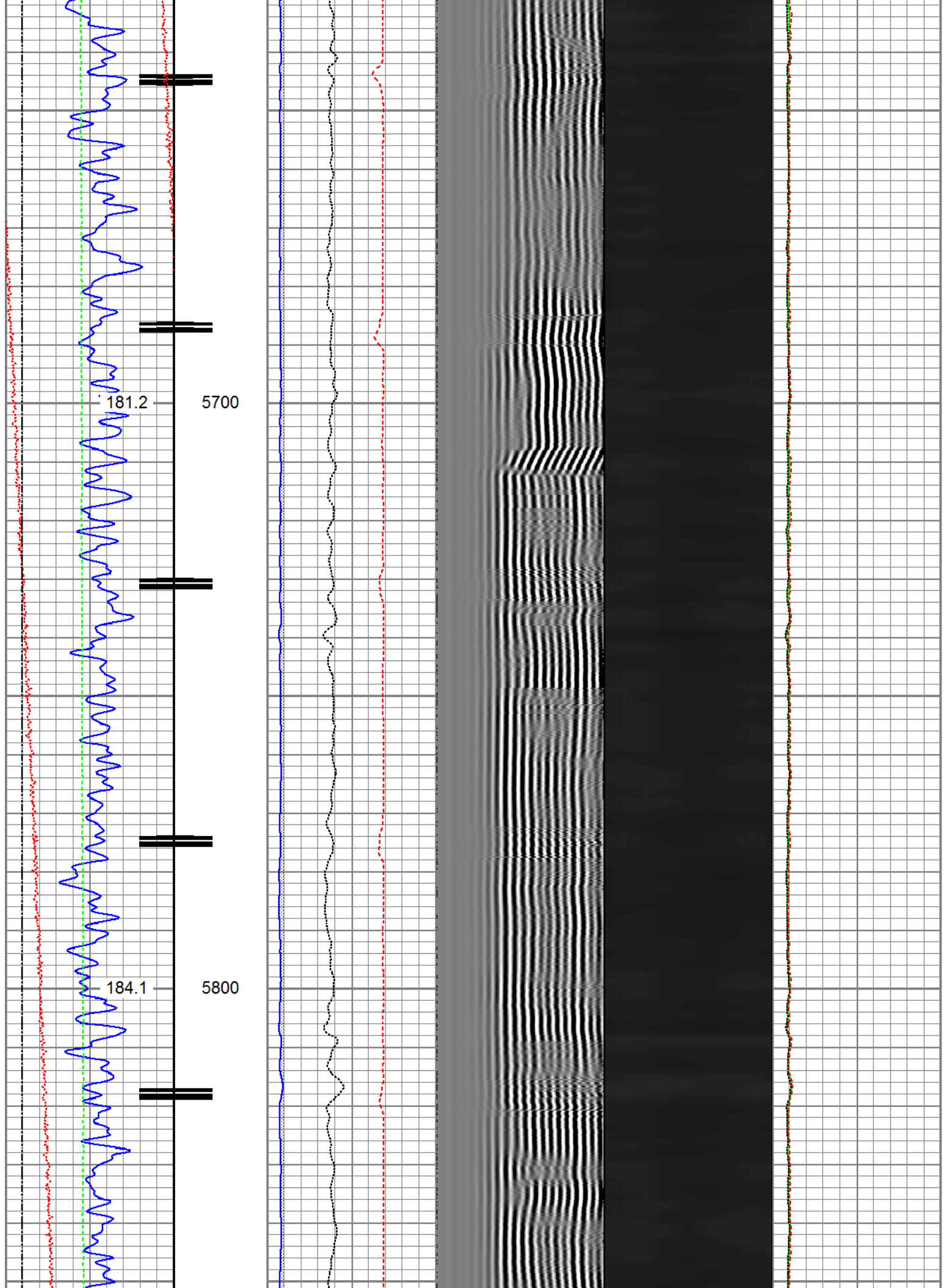




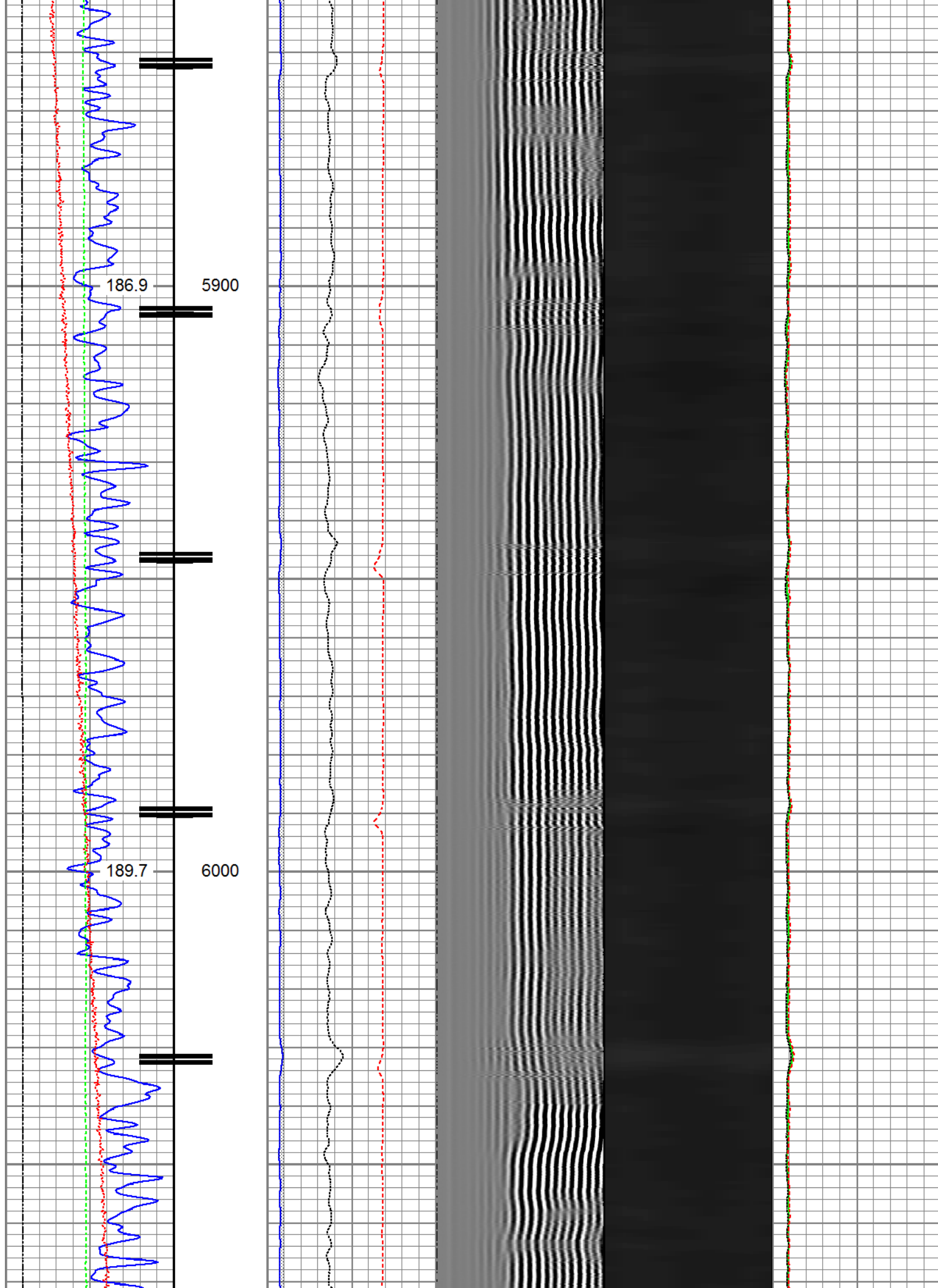


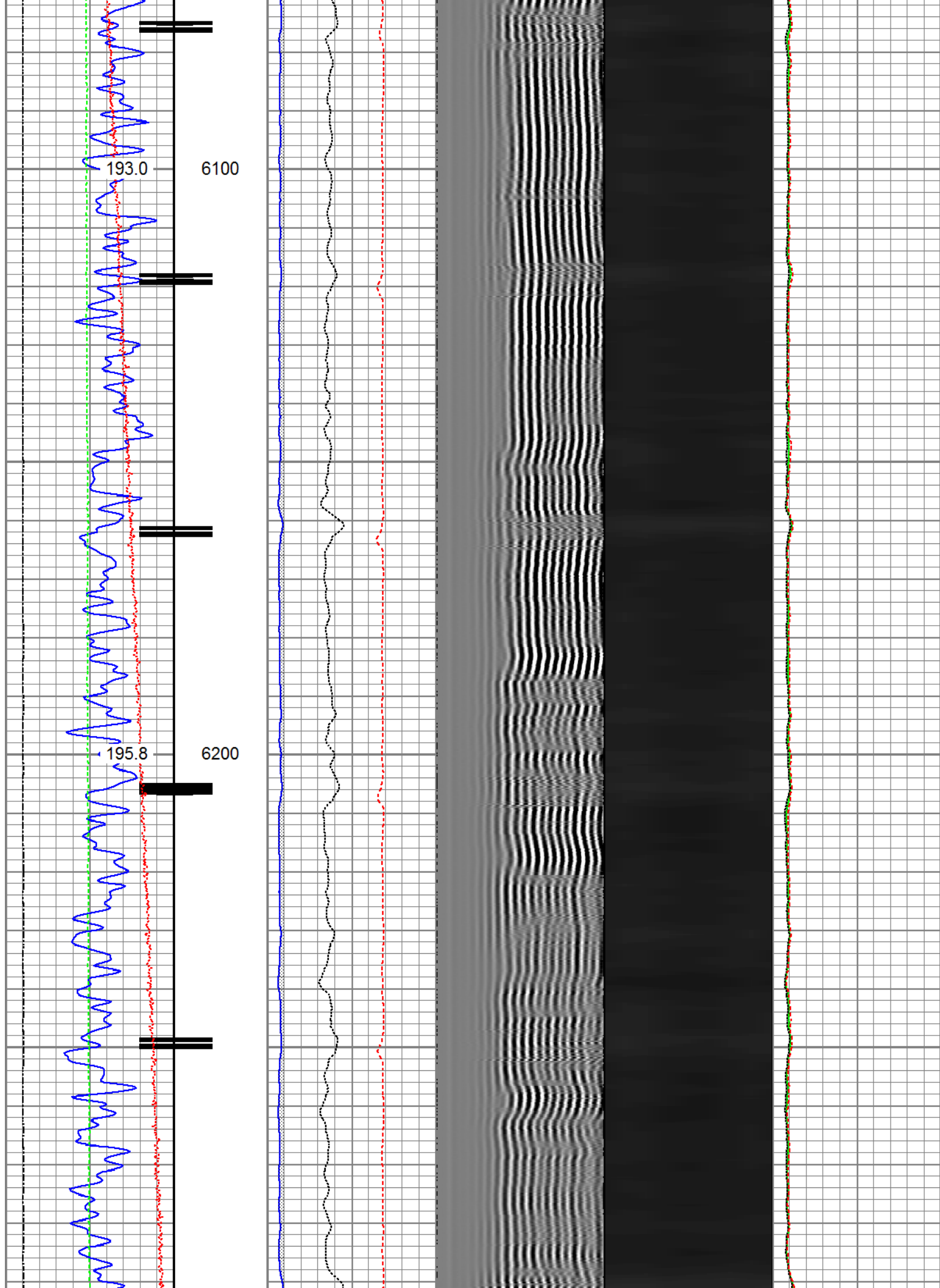


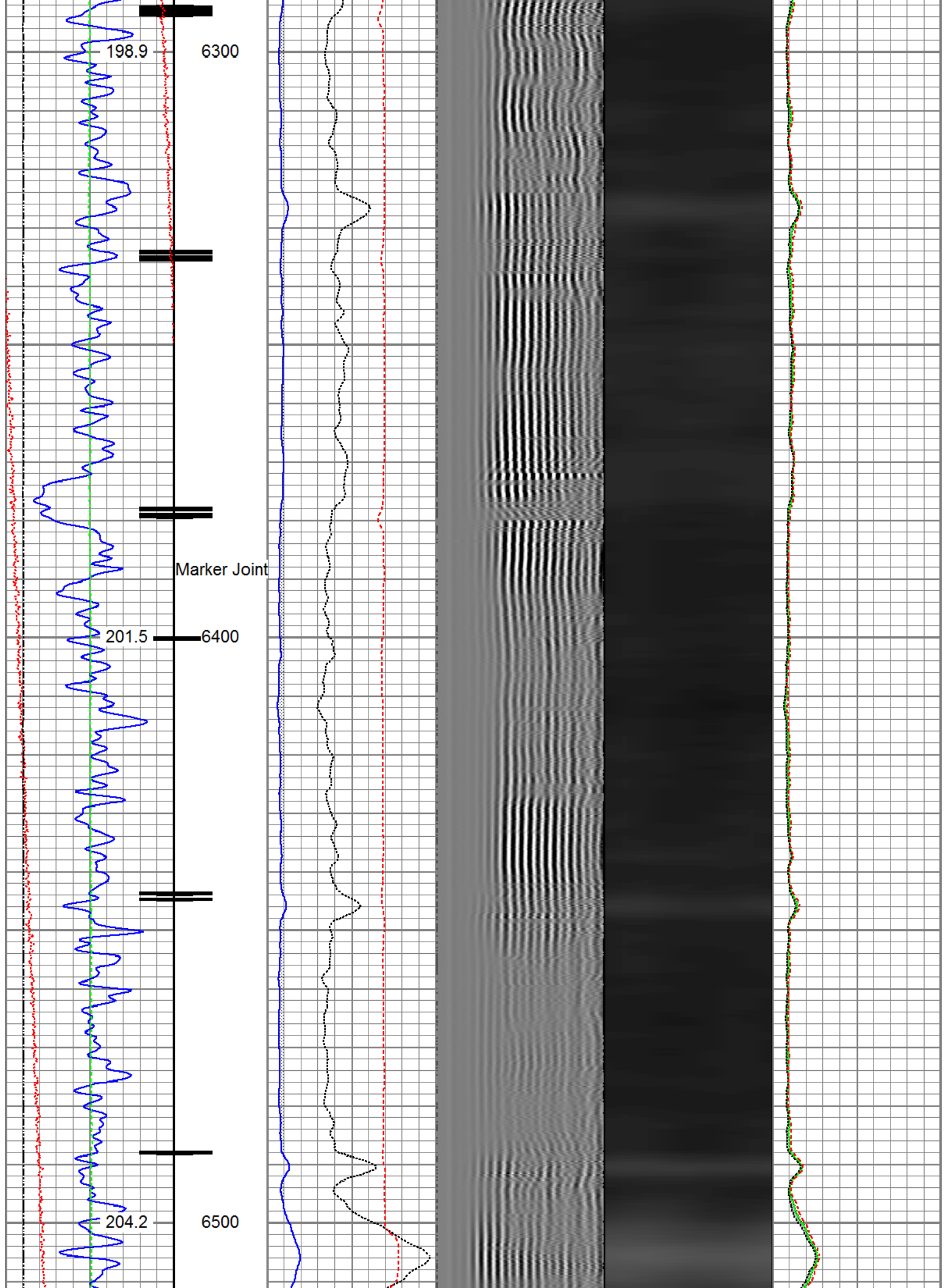


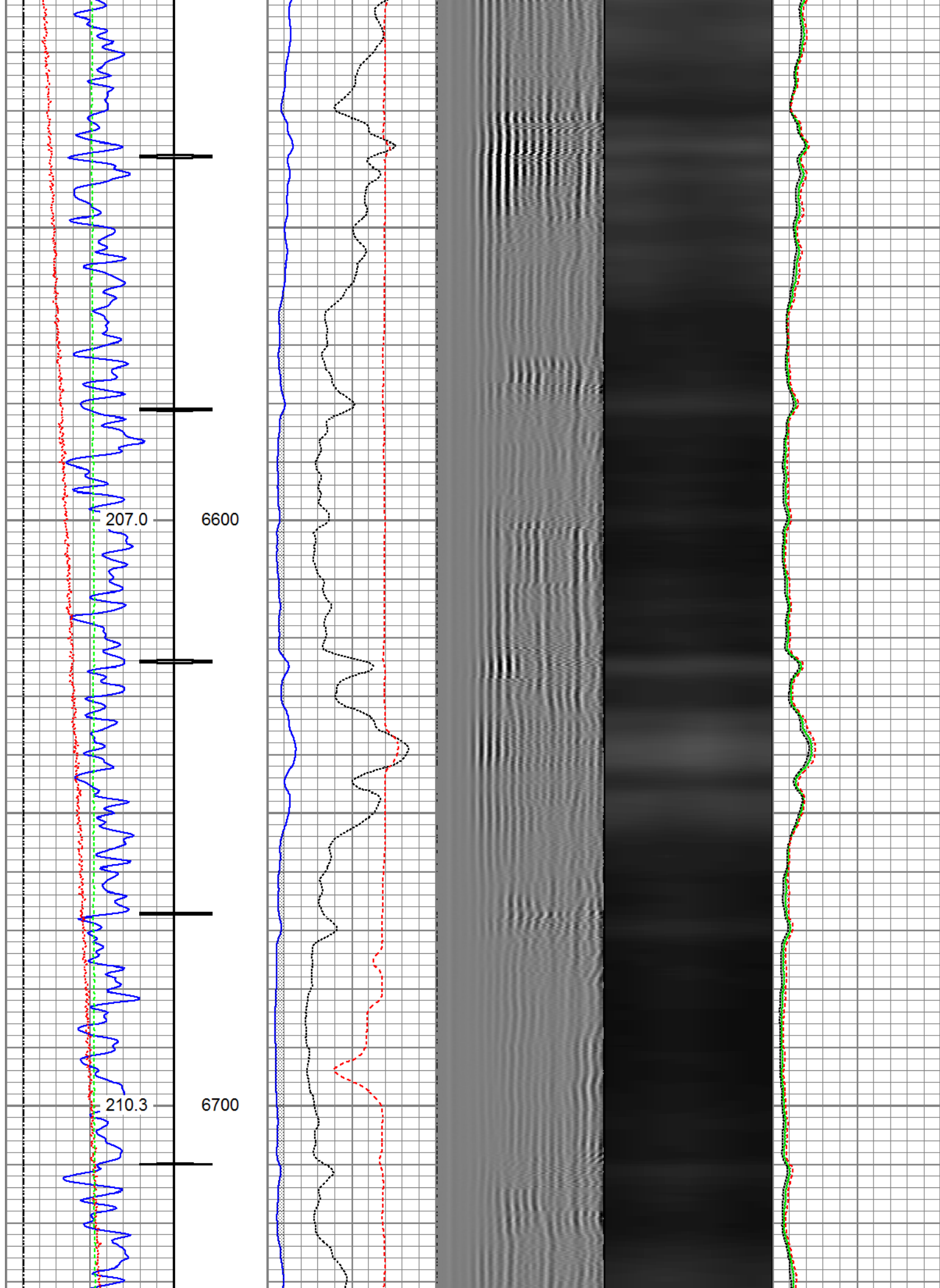




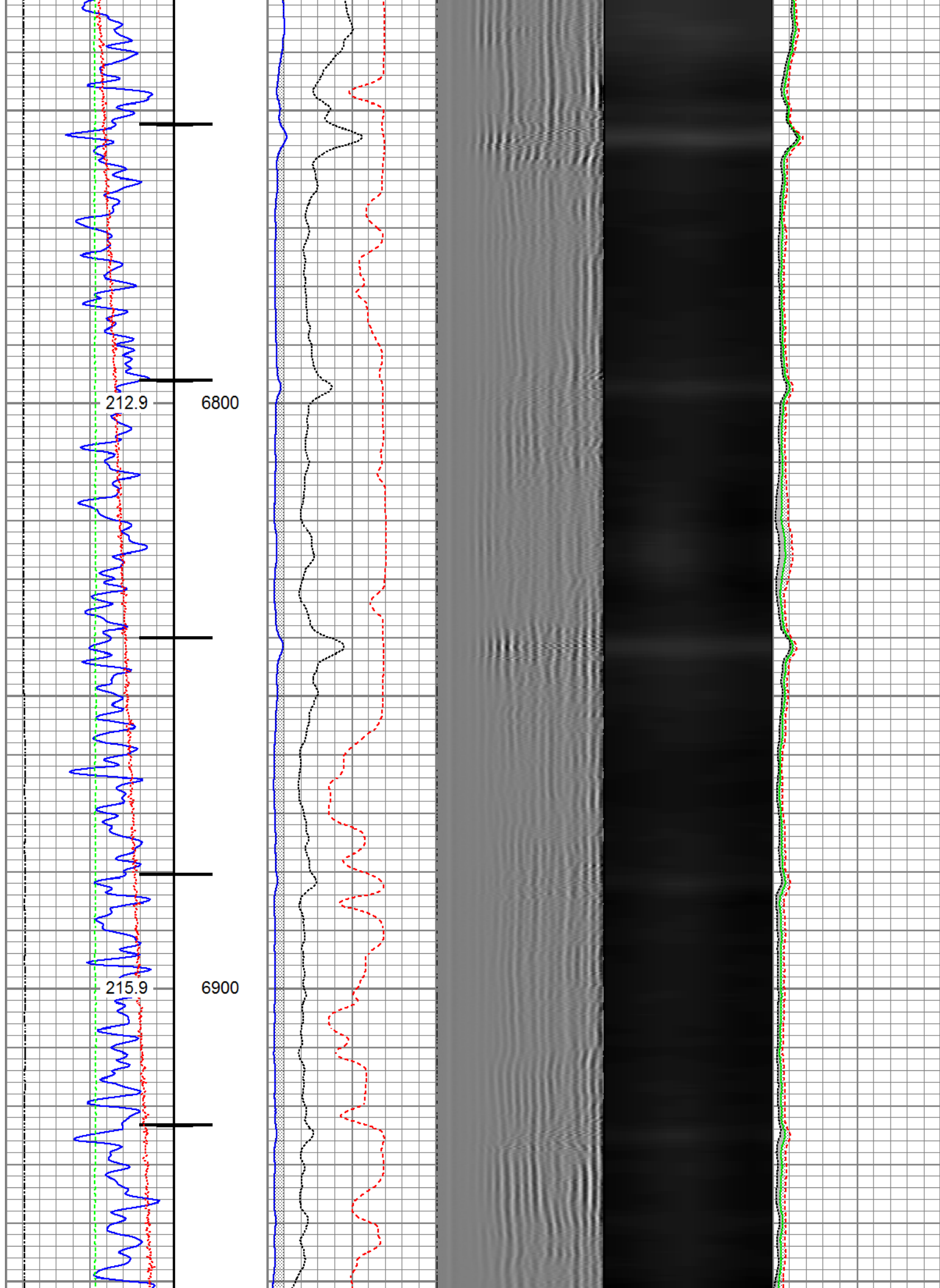


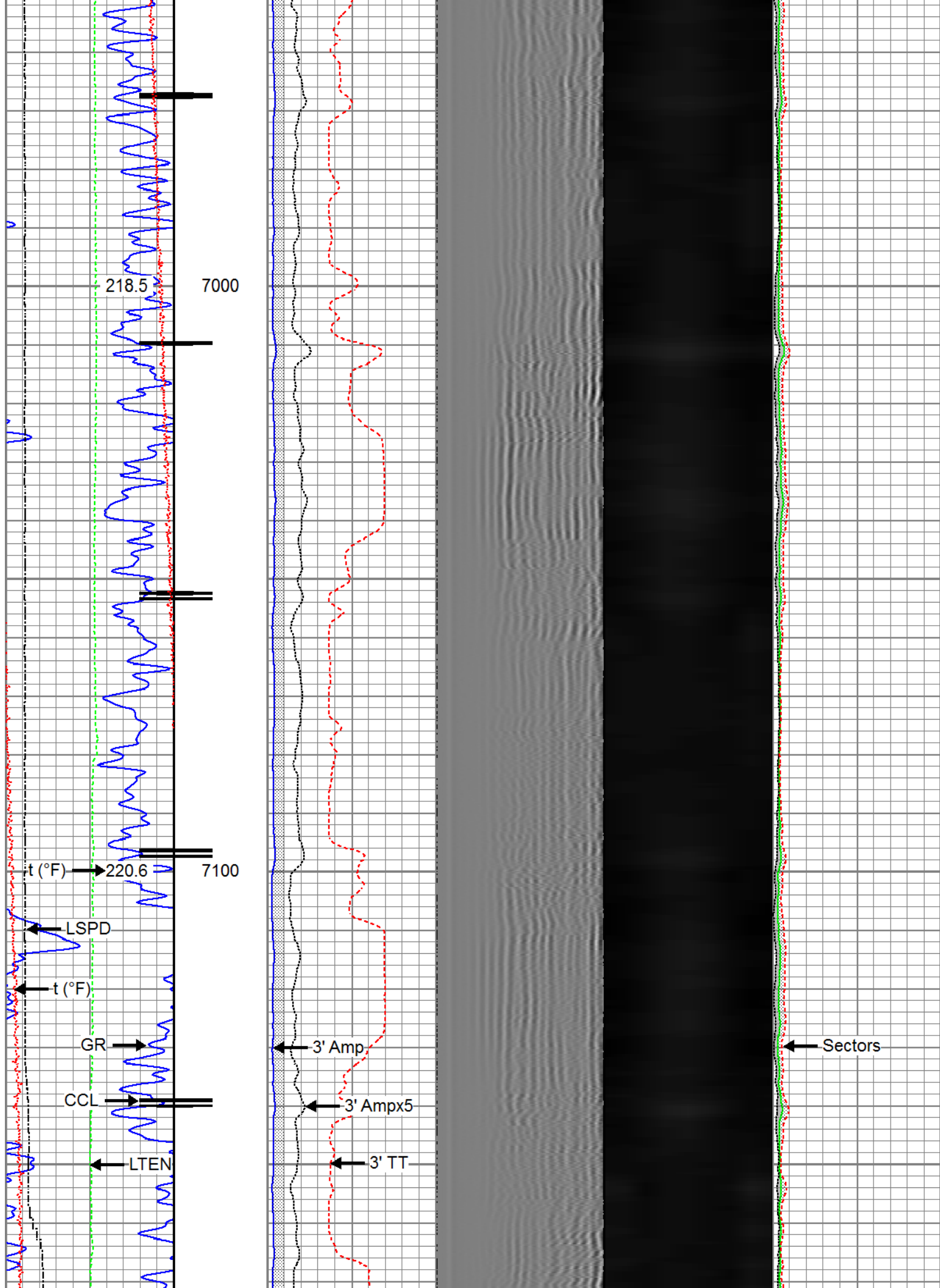


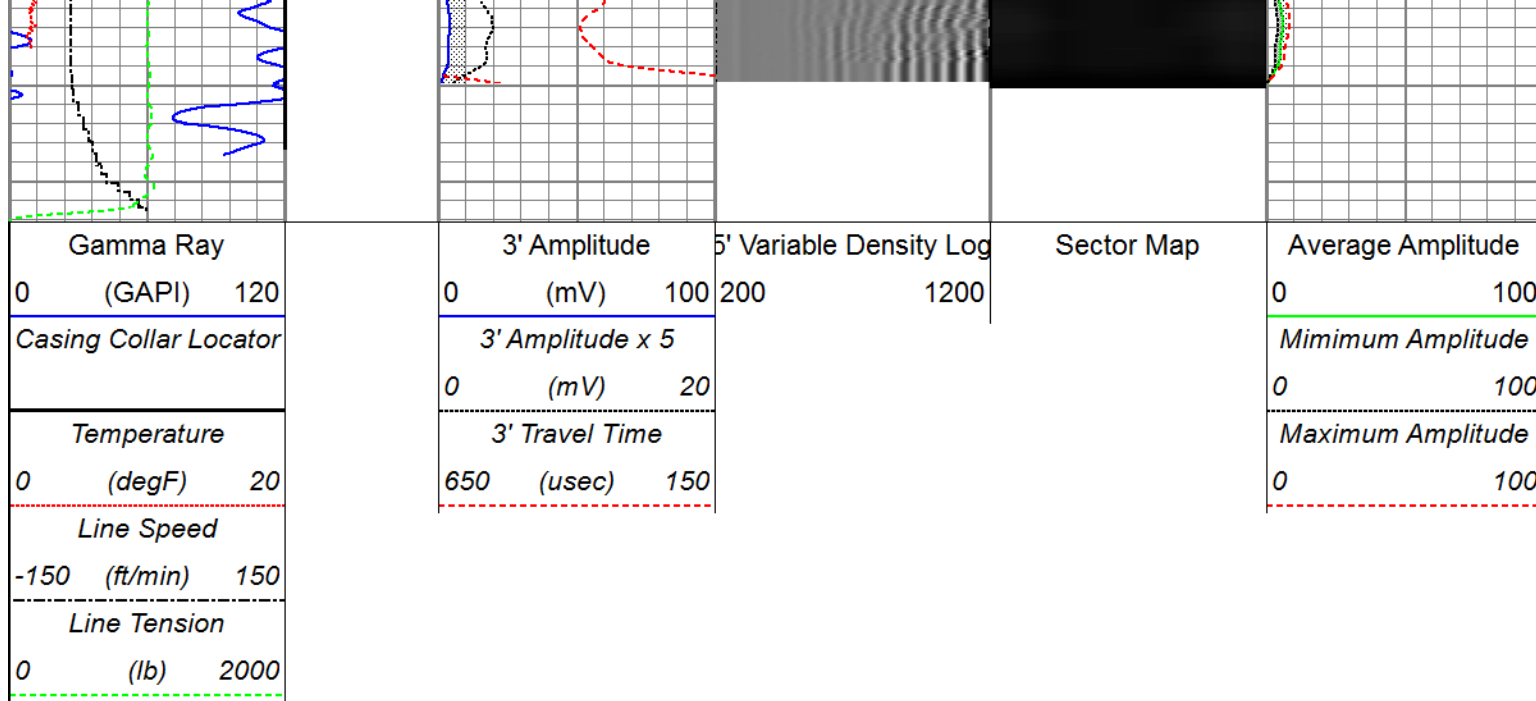








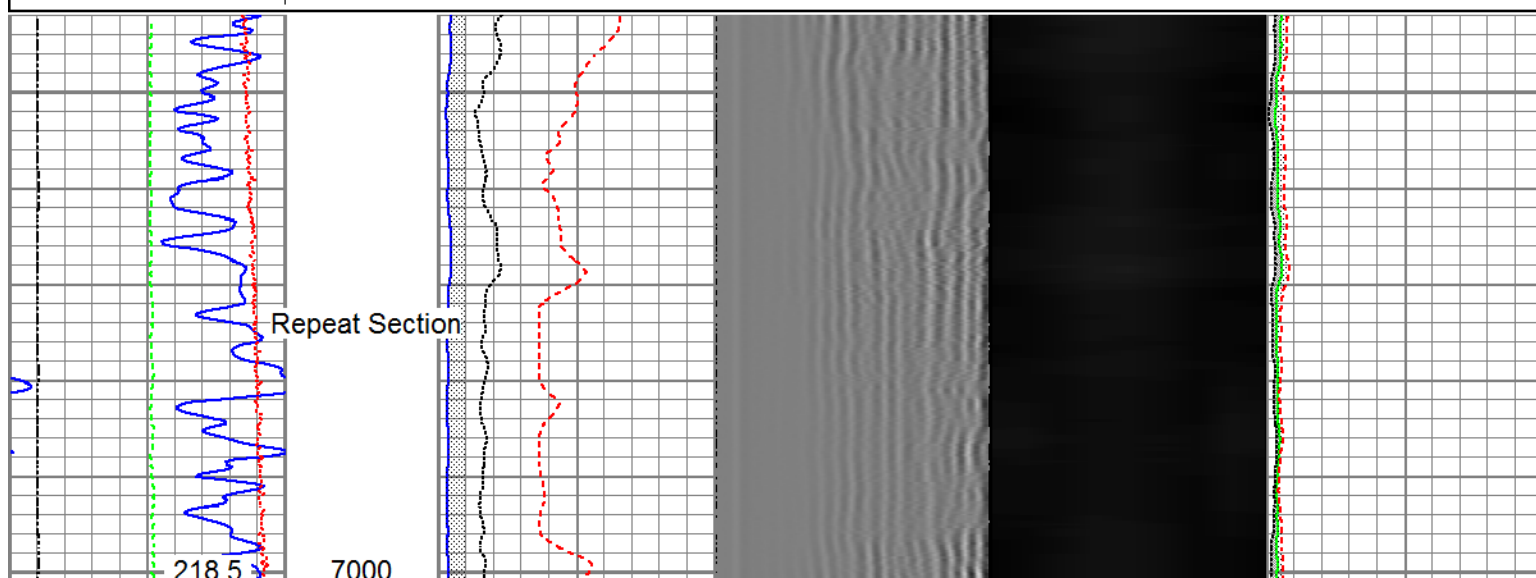
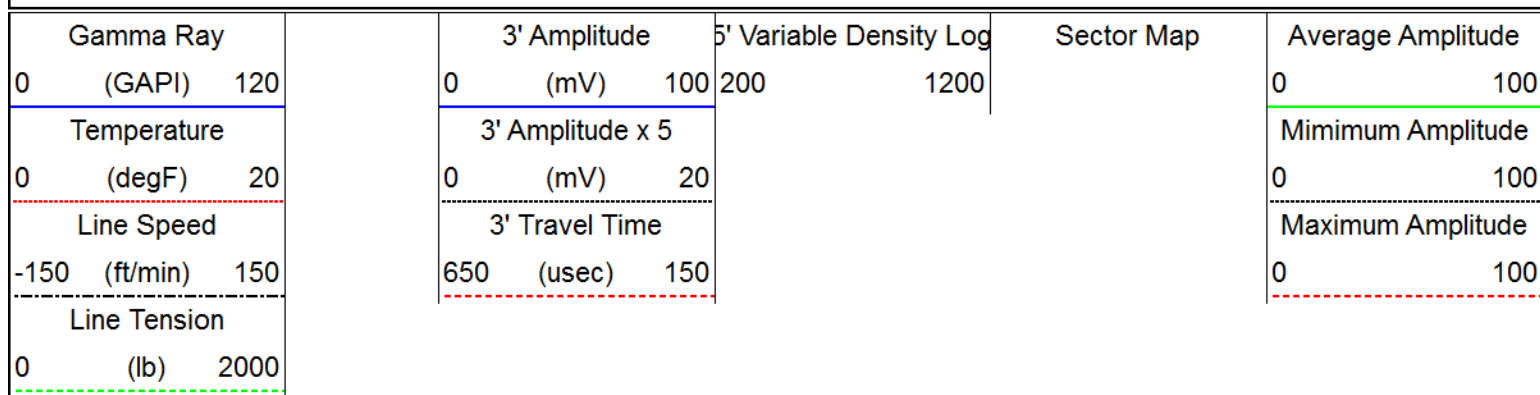


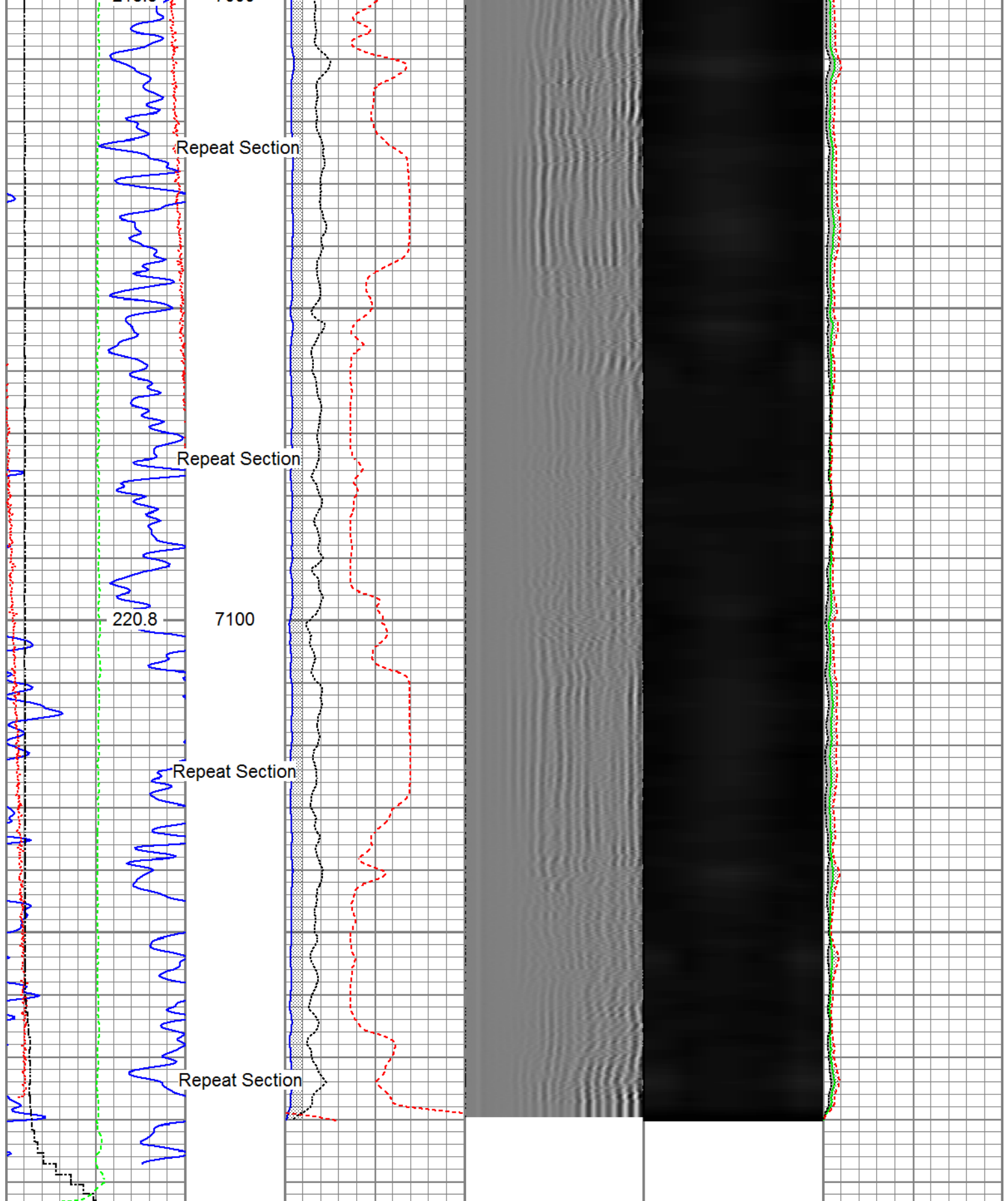


## Repeat Pass

Recorded with 2800 PSI Surface Induced Pressure

Database File: anadarko\_wilson\_ranch\_32n-n27hz\_rbl\processed\_0512341299\_anadarko\_wilson ranch 32n-n27hz  
 Dataset Pathname: Repeat.1  
 Presentation Format: ros\_radrii  
 Dataset Creation: Thu Feb 16 09:47:34 2017  
 Charted by: Depth in Feet scaled 1:240





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



150 (in/min)	150	050 (uscc)	150	0	100
Line Tension					
0	(lb)	2000			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
Temp	16.72		Titan_Electric_Cable_Heads-Titan_1-11/16" 1.03 Electric Cable Head with 1" Fishing Neck	1.69	1.69	5.40
			Probe_ELine_BowSpring_Centralizer-P_EB\$2.8875 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	2.75	20.00
WVFS8	14.55		Probe_RADII-C-P_RBT_2750 (FW1302-0029.19 Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	2.75	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					
DCCL CCL	6.51		Probe_ELine_BowSpring_Centralizer-P_EB\$2.8875 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	2.75	20.00
	6.51					
GR	3.77		Probe_GR_CCL-P_CGR_2750_S (FW12114.54) Probe 2-3/4" Digital CCL / Gamma Ray Combined	2.75	2.75	55.00
			Probe_ELine_BowSpring_Centralizer-P_EB\$2.8875 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	2.75	20.00

Dataset: processed\_0512341299\_anadarko\_wilson\_ranch 32n-n27hz\_rbl.db: field/well/run1/Main.1  
 Total length: 23.40 ft  
 Total weight: 225.40 lb  
 O.D.: 2.75 in

### Calibration Report

Database File c:\programdata\warrior\data\anadarko\_wilson\_ranch\_32n-n27hz\_rbl\processed\_0512341299\_anadarko\_wilson\_ranch\_32n-n27hz\_rbl  
 Dataset Pathname Main.1  
 Dataset Creation Wed Feb 15 12:36:15 2017

### Gamma Ray Calibration Report

Serial Number: FW1211-081  
 Tool Model: P\_CGR\_2750\_S  
 Performed: Sat Feb 06 11:31:52 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: FW1302-002  
 Tool Model: P\_RBT\_2750  
 Calibration Casing Diameter: 5.500 in  
 Calibration Depth: 11.459 ft

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

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.653	0.800	71.921	108.964	0.757
CAL	0.004	0.774				
5'	0.000	0.545	0.800	71.921	130.454	0.774
SUM						
S1	0.001	0.623	0.000	100.000	160.866	-0.149
S2	0.001	0.606	0.000	100.000	165.263	-0.089
S3	0.000	0.616	0.000	100.000	162.467	-0.075
S4	0.001	0.655	0.000	100.000	152.848	-0.121
S5	0.001	0.701	0.000	100.000	142.754	-0.088
S6	0.000	0.704	0.000	100.000	142.062	-0.062
S7	0.000	0.688	0.000	100.000	145.474	-0.055
S8	0.001	0.665	0.000	100.000	150.594	-0.111

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

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.774	1.000	0.000

Air Zero Calibration, performed Wed Feb 15 06:52:05 2017:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.004	0.000	0.000
5'	0.004	0.000	-0.000
SUM			
S1	0.004	0.000	0.000
S2	0.004	0.000	-0.000
S3	0.004	0.000	0.000
S4	0.004	0.000	0.000
S5	0.004	0.000	-0.000
S6	0.004	0.000	-0.000
S7	0.004	0.000	-0.000
S8	0.004	0.000	-0.000

	Company	Kerr-McGee Oil & Gas Onshore, L.P.
	Well	Wilson Ranch 32N-N27HZ
	Field	Wattenberg
	County	Weld
	State	Colorado