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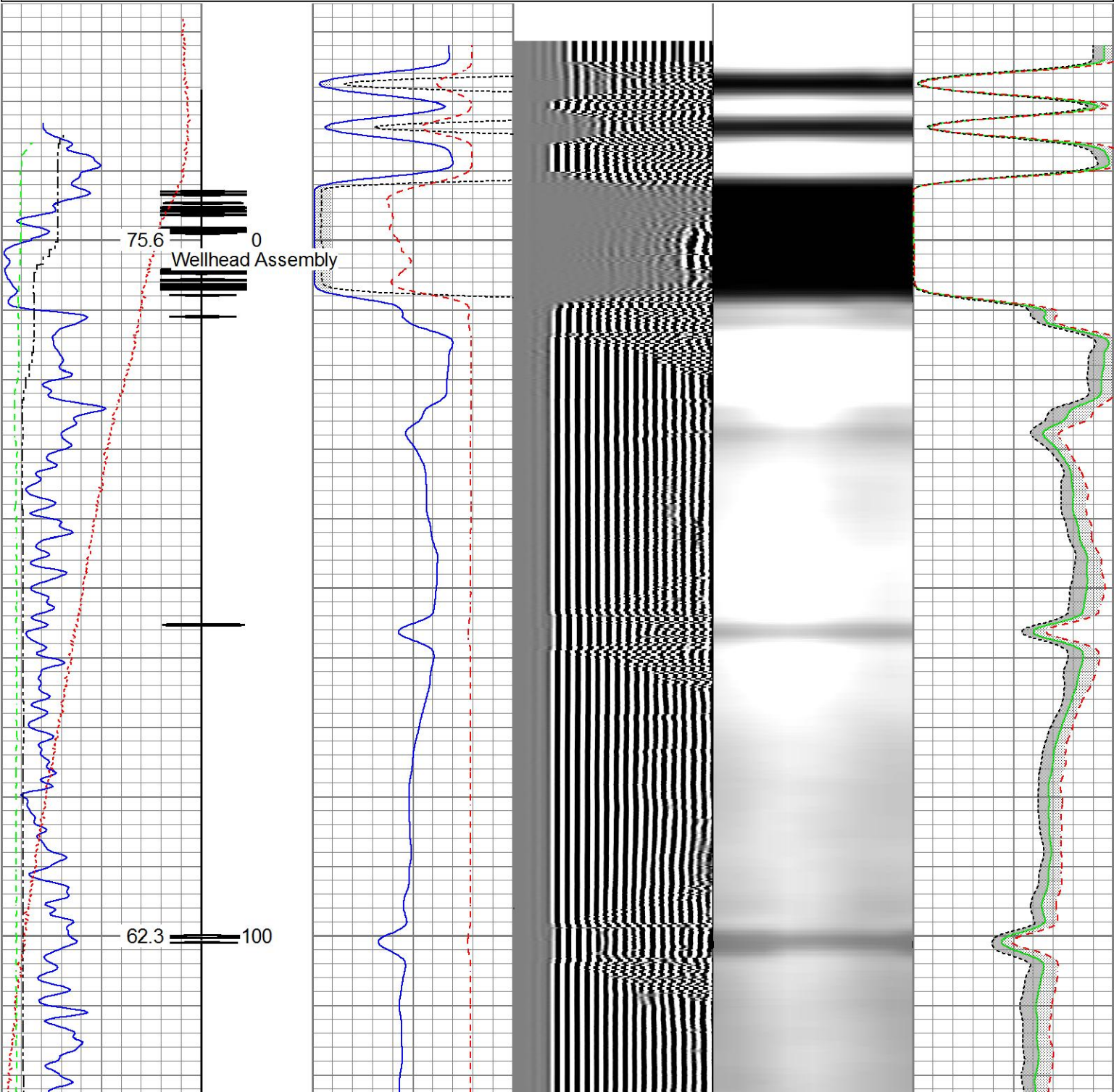
Comments

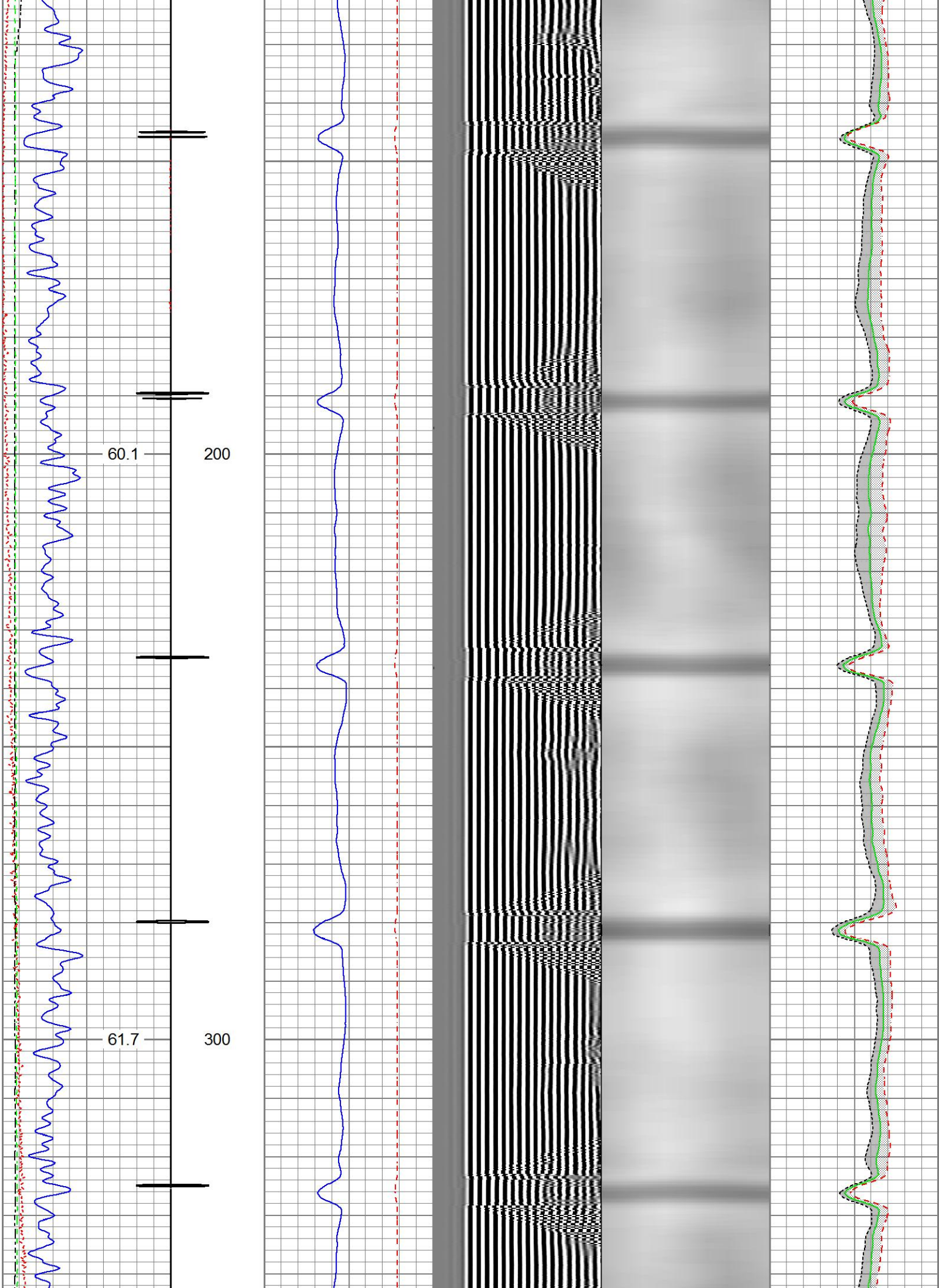


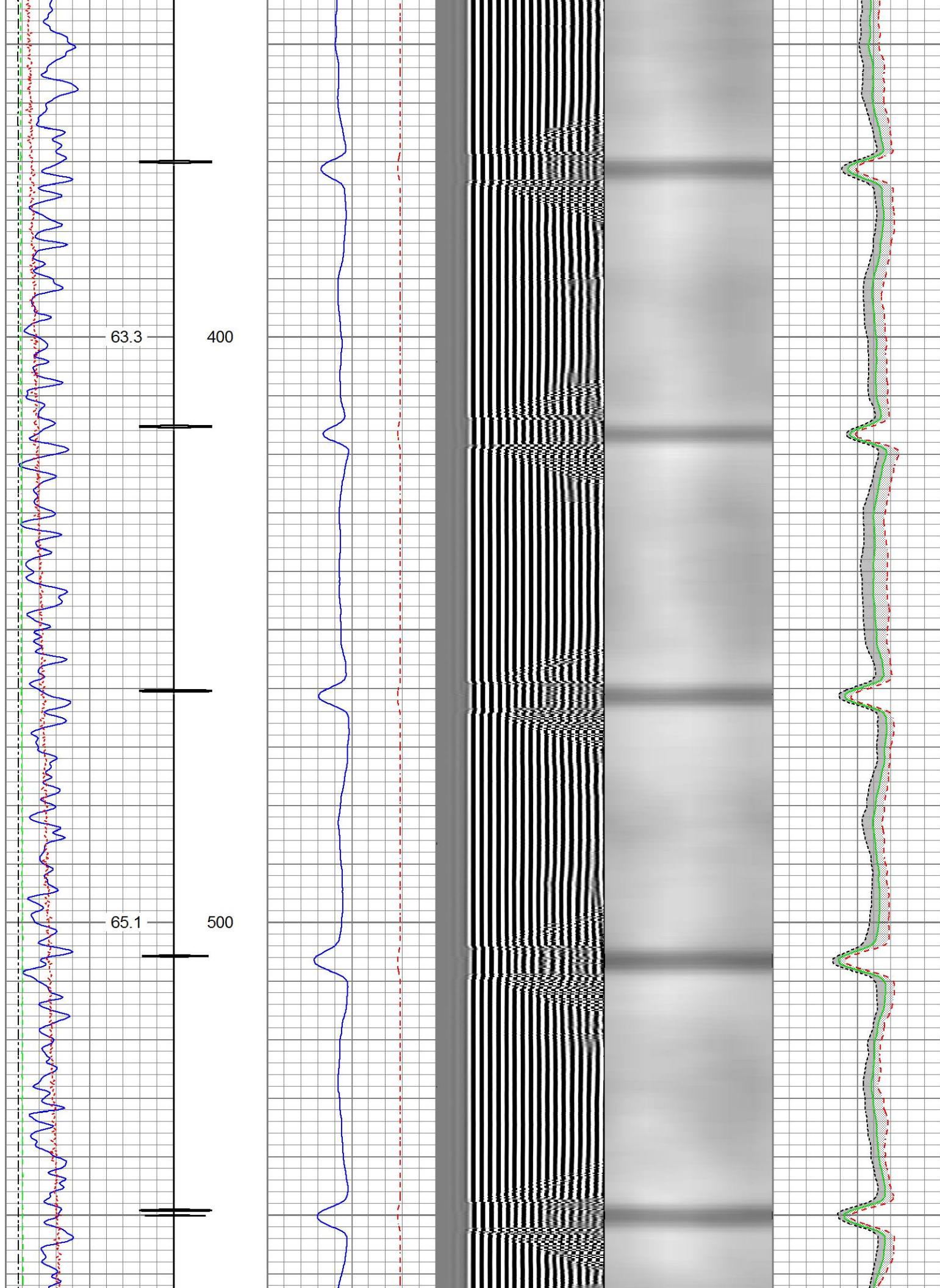
RELIANCE
OILFIELD SERVICES

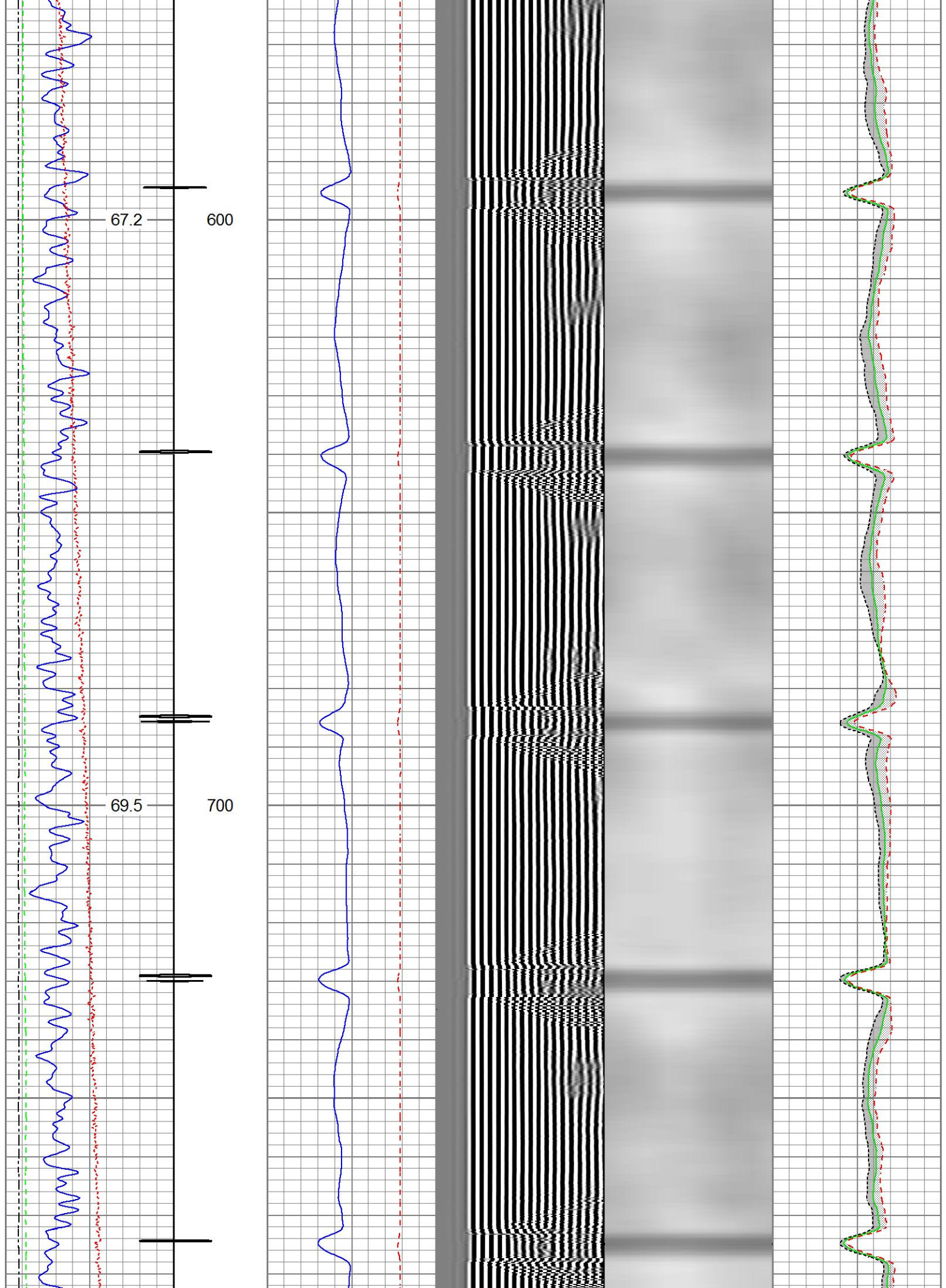
Recorded With 2800 PSI Surface Induced Pressure

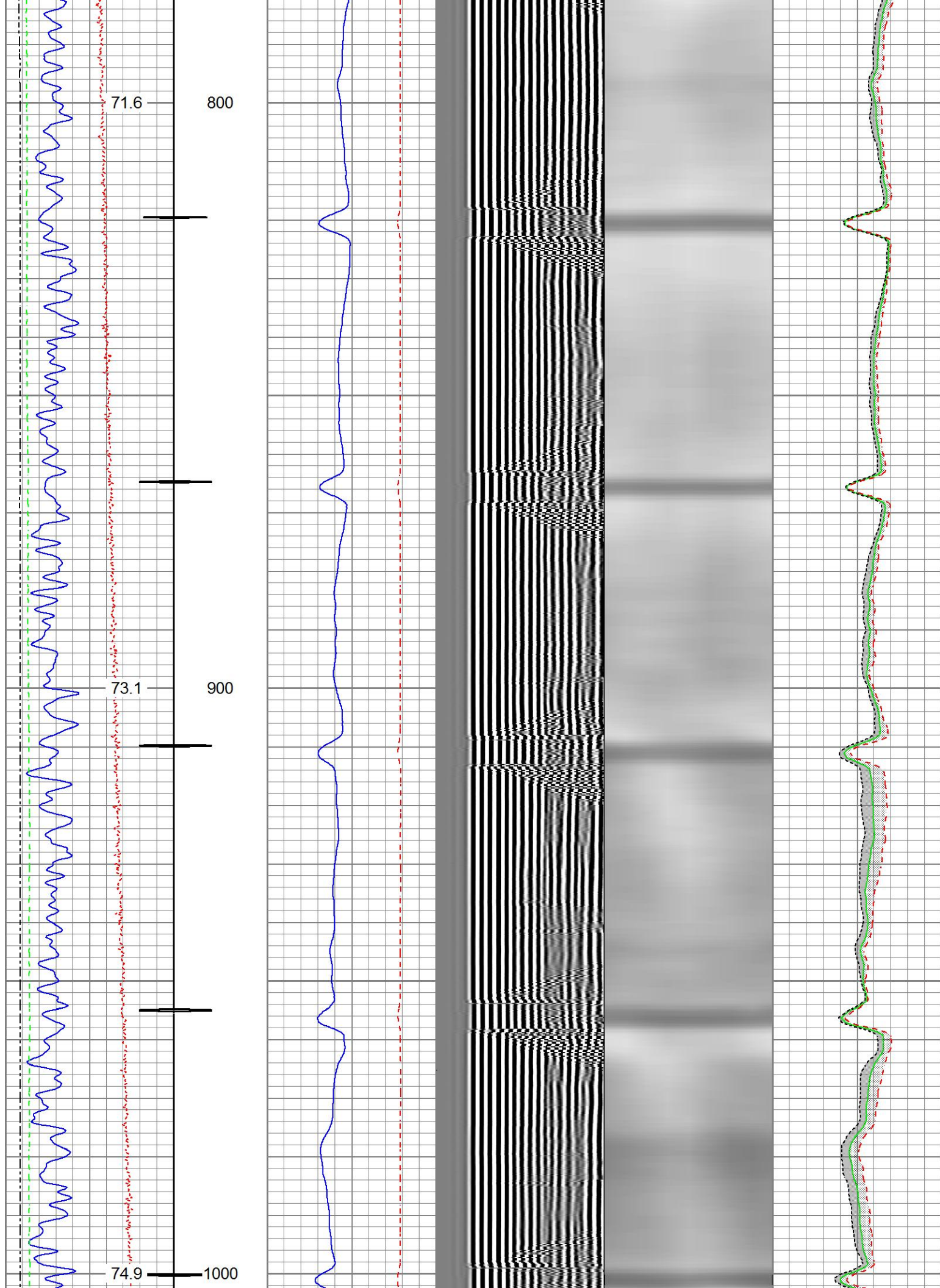
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Temperature	0 (mV) 20			0 100
0 (degF) 20	3' Travel Time			Maximum Amplitude
Line Speed	650 (usec) 150			0 100
-150 (ft/min) 150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

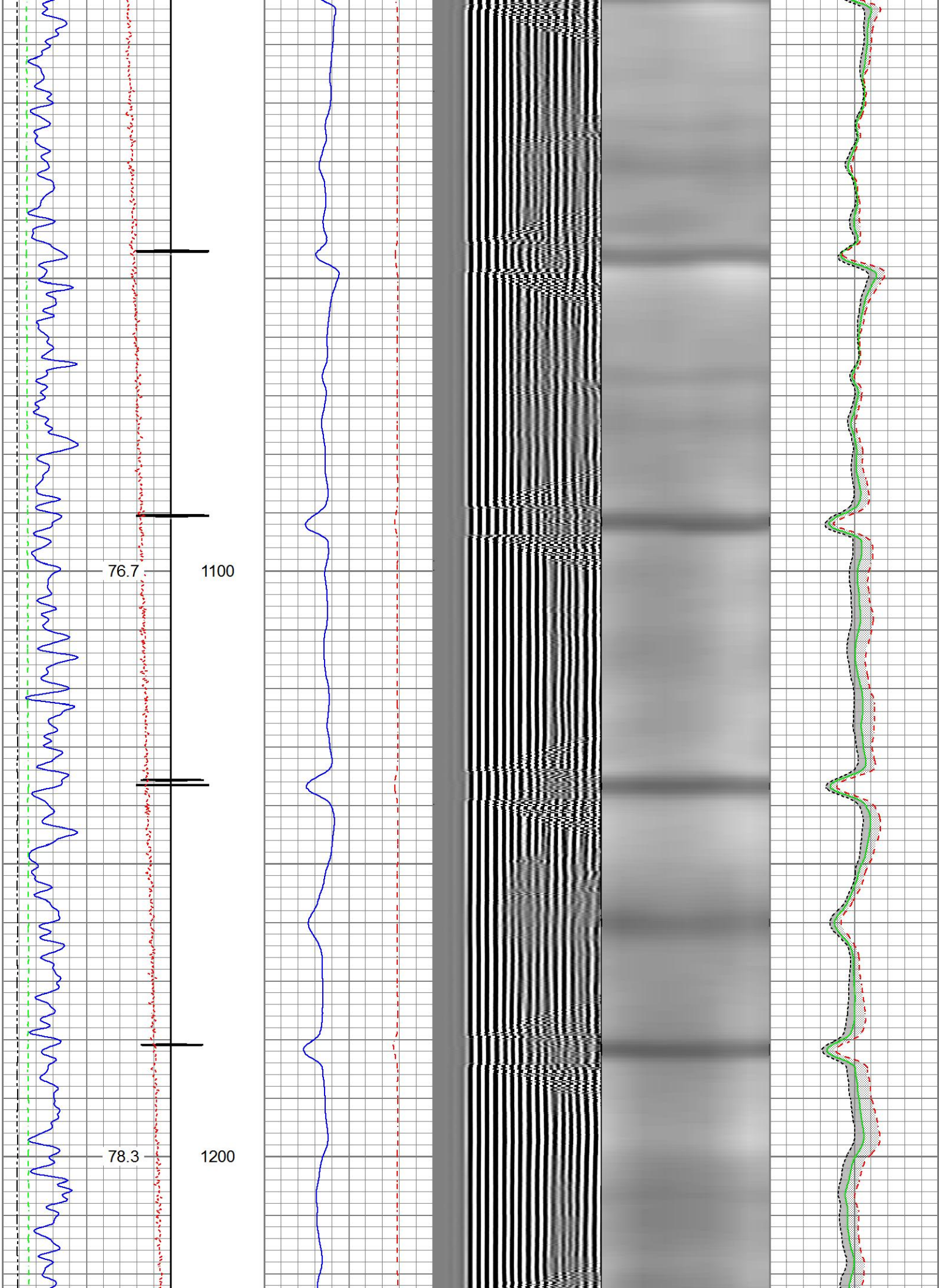


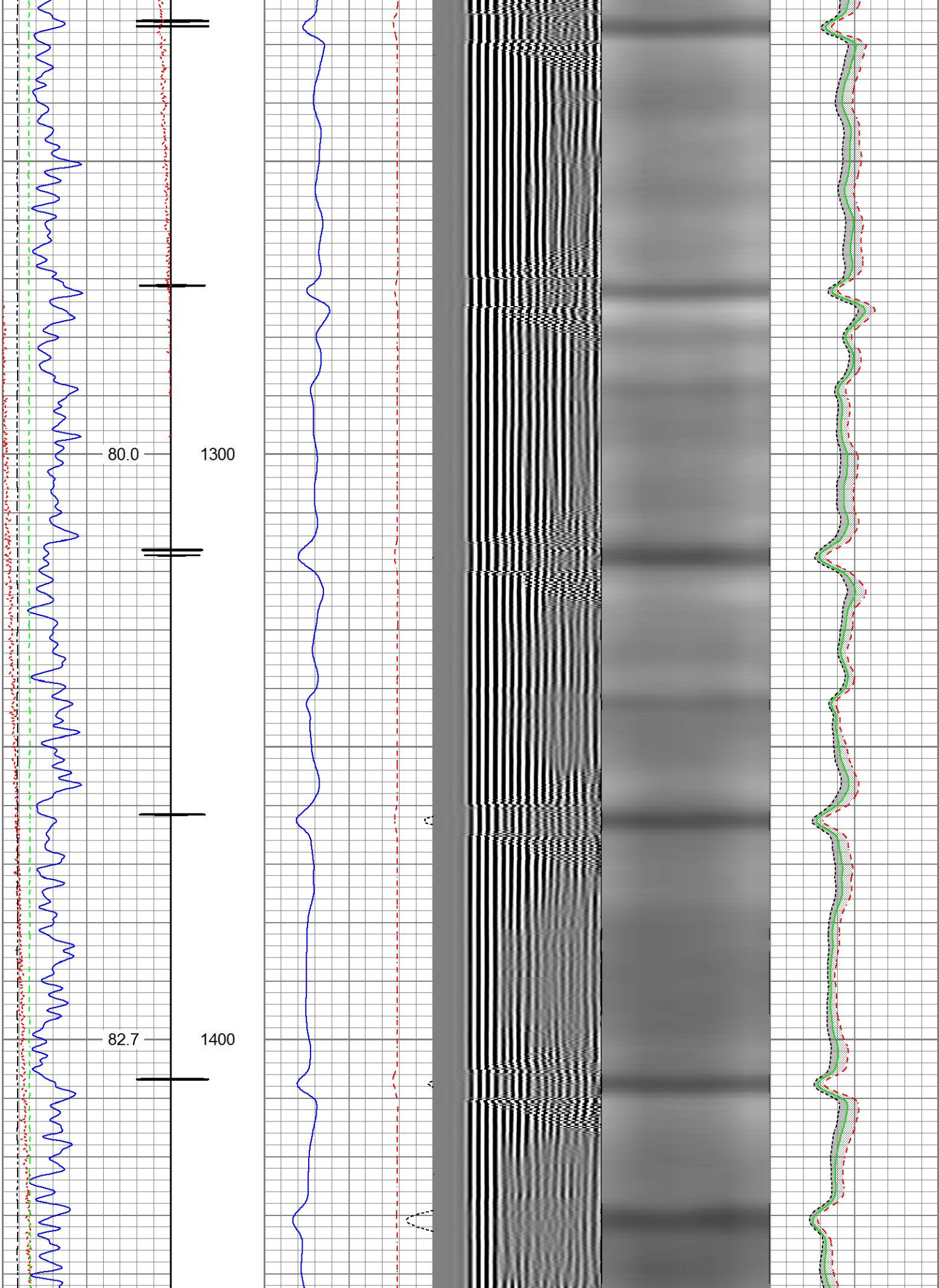


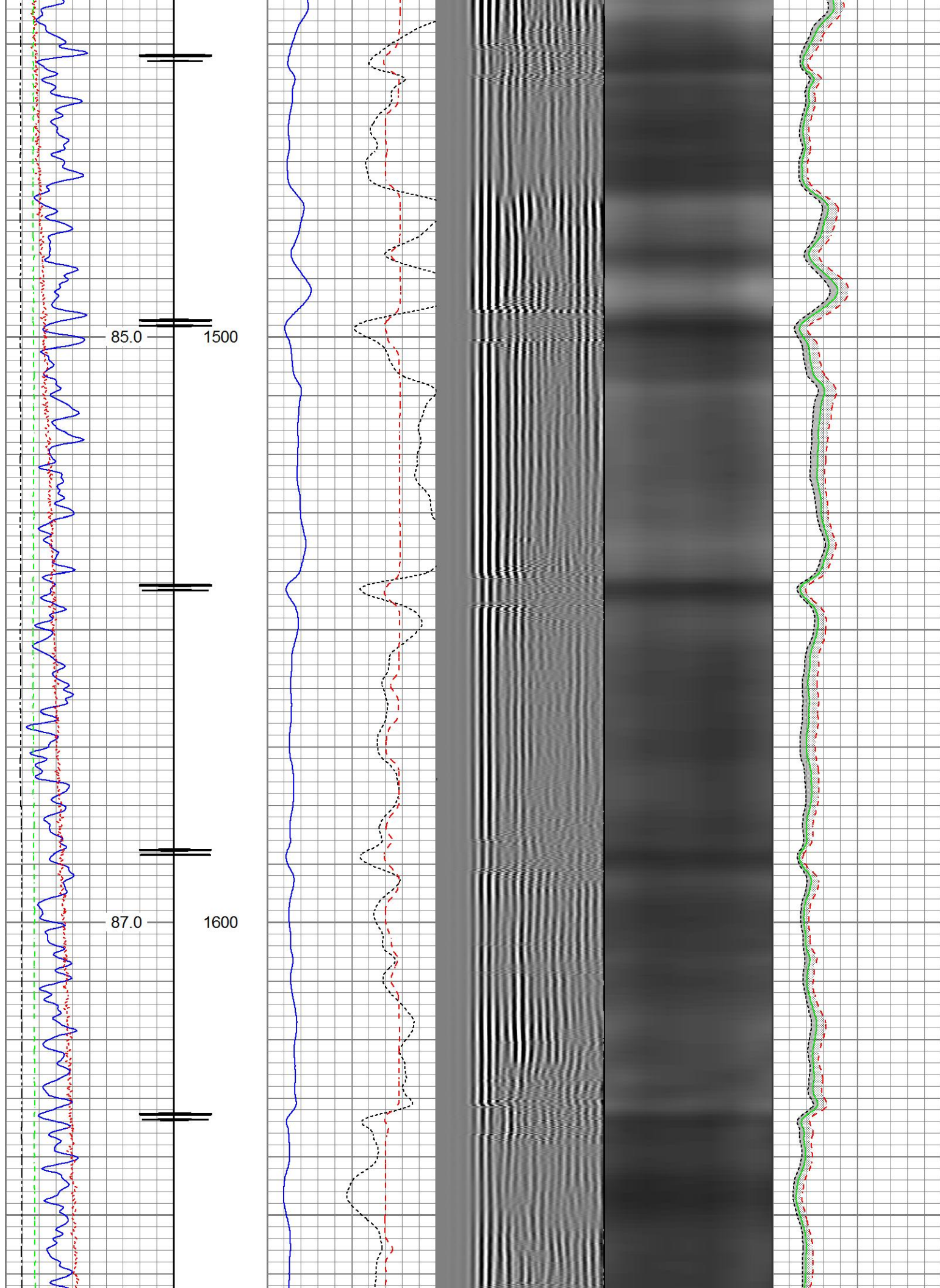


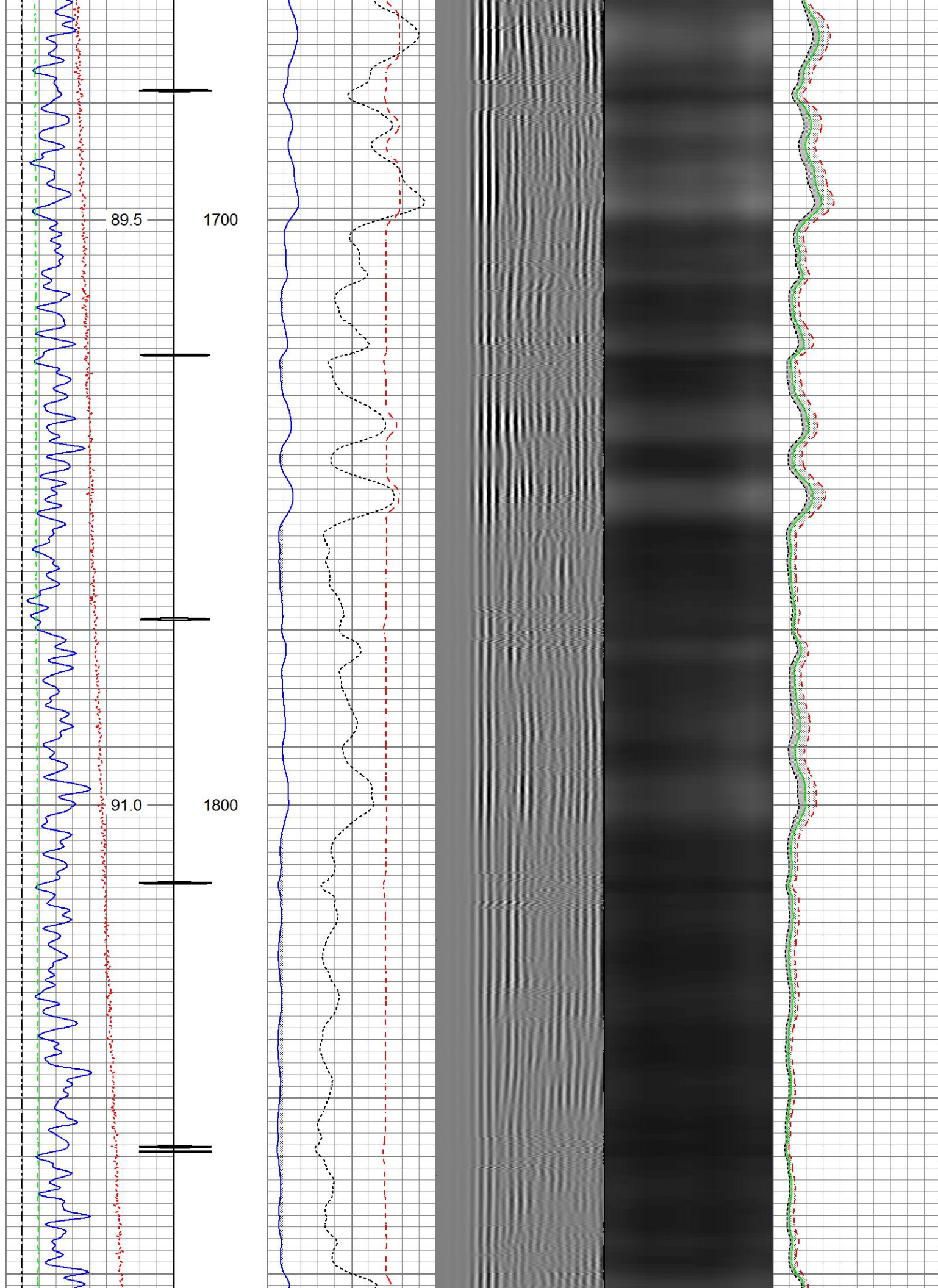


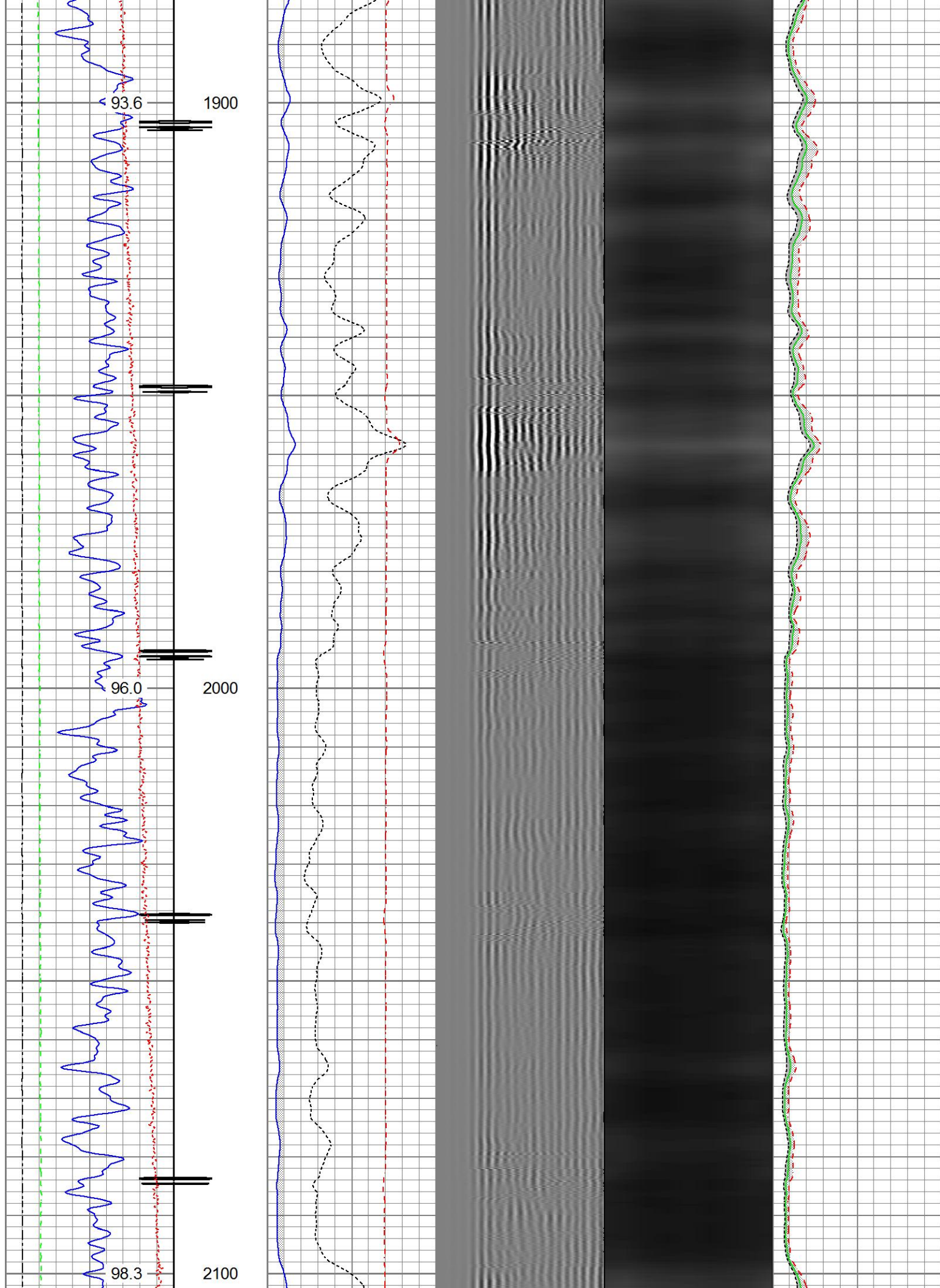


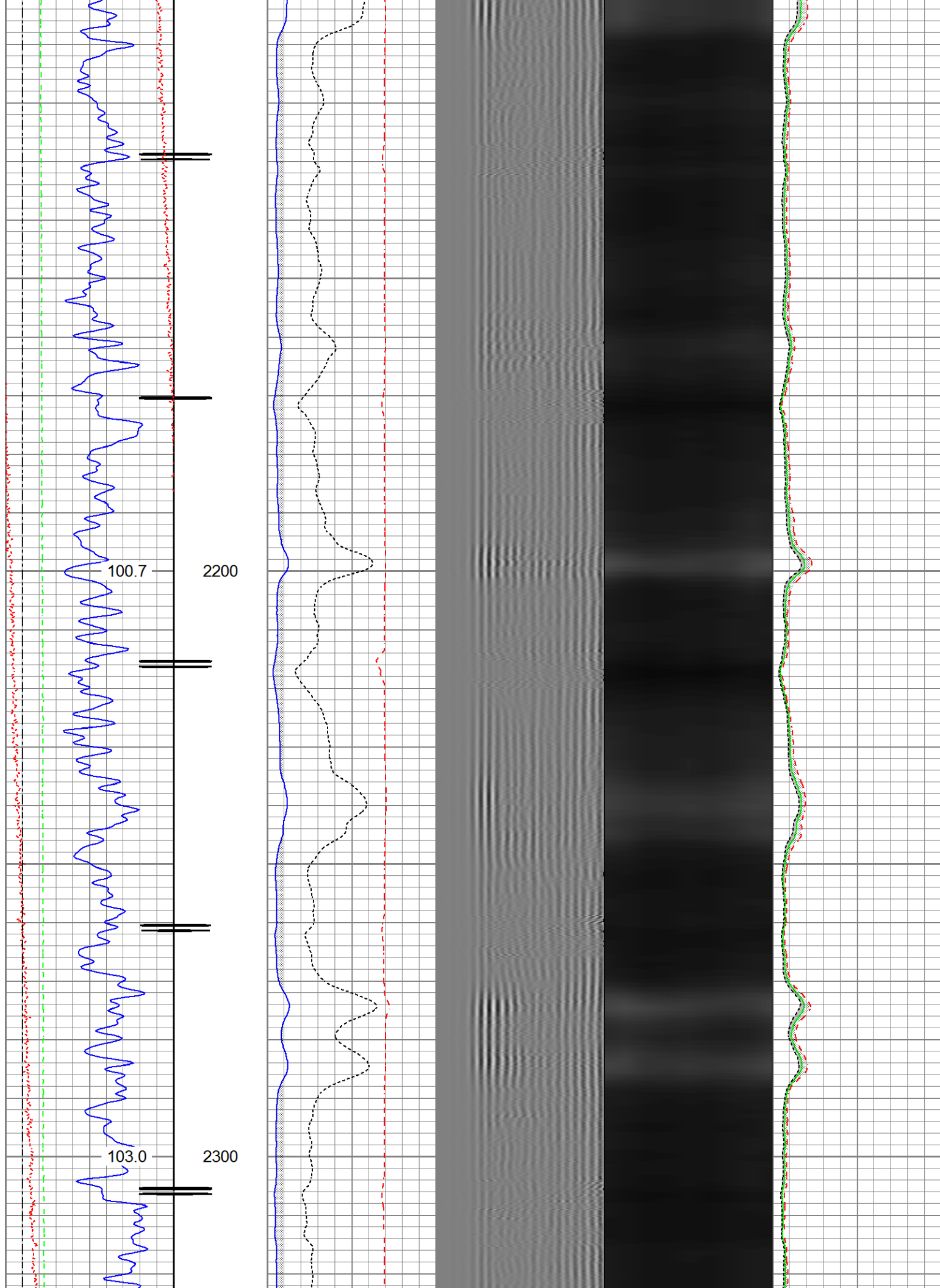


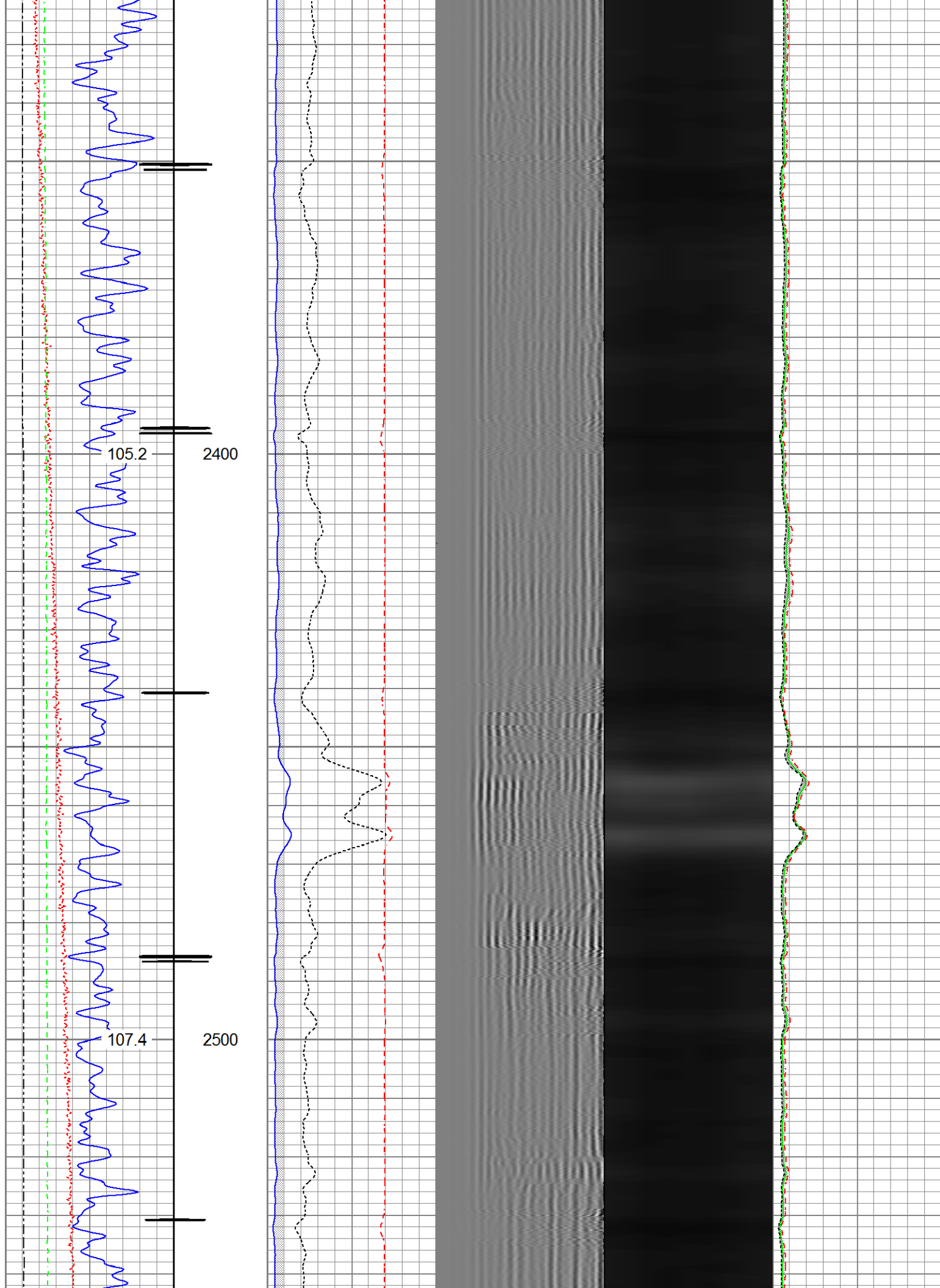


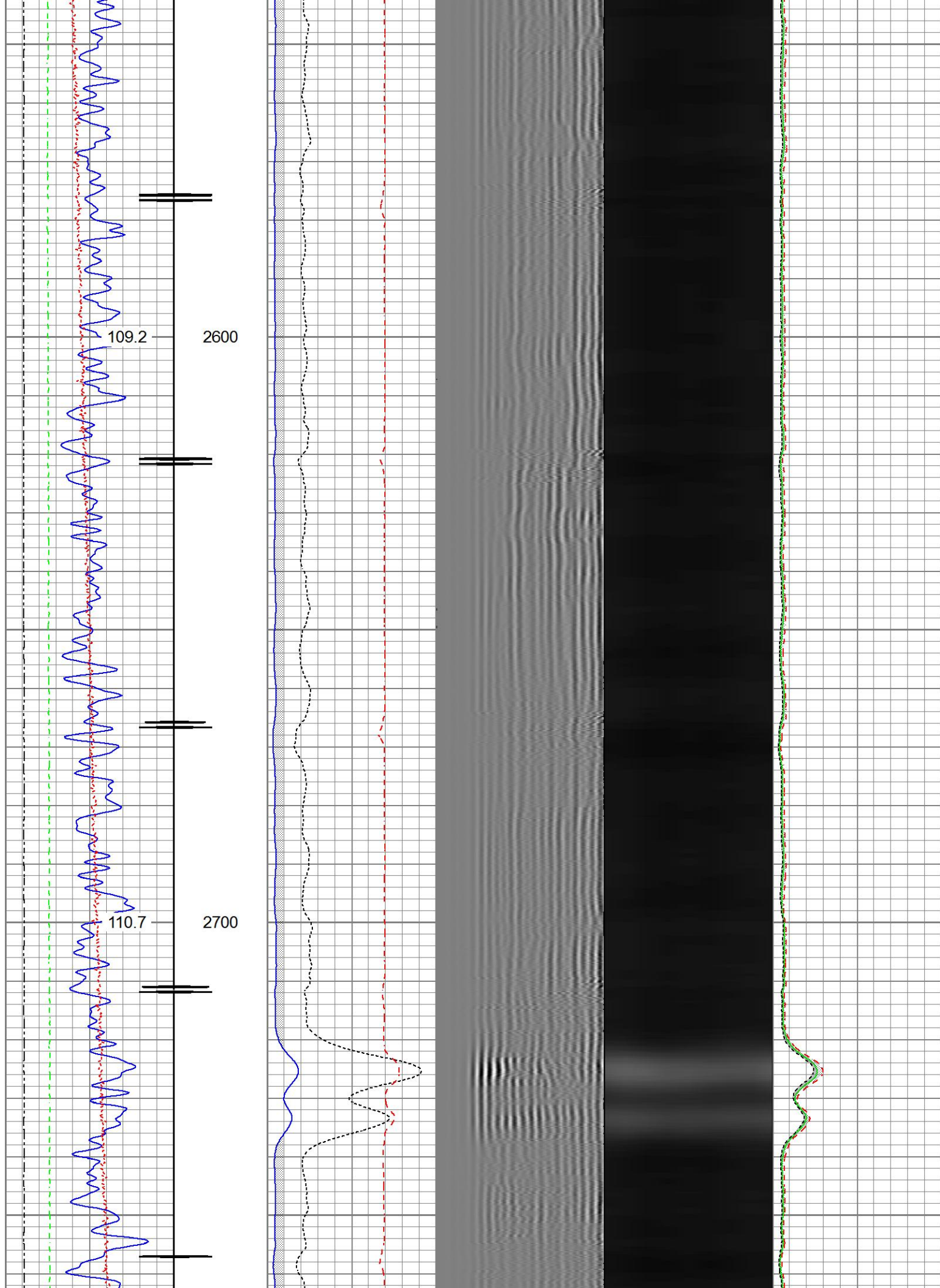


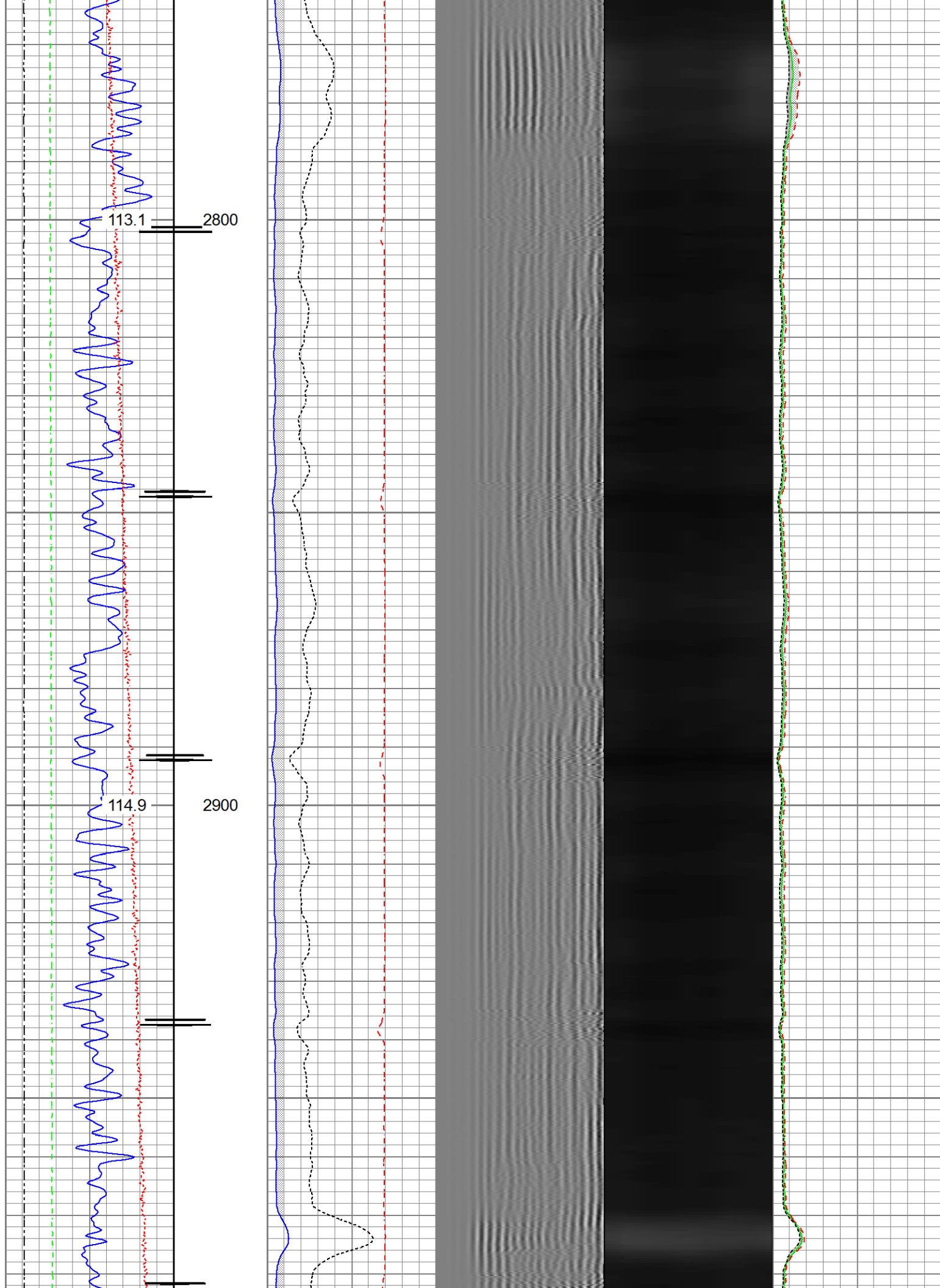


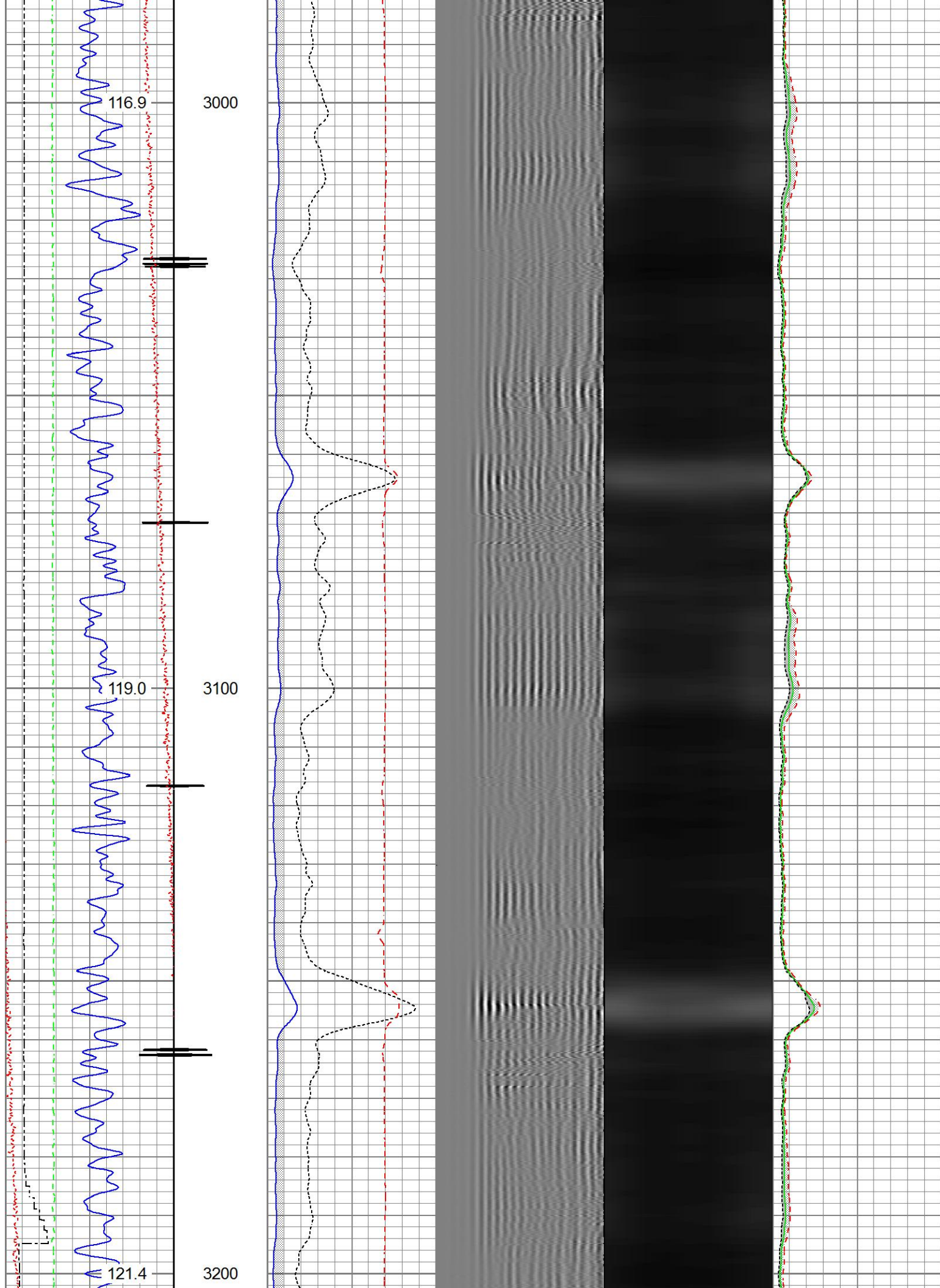


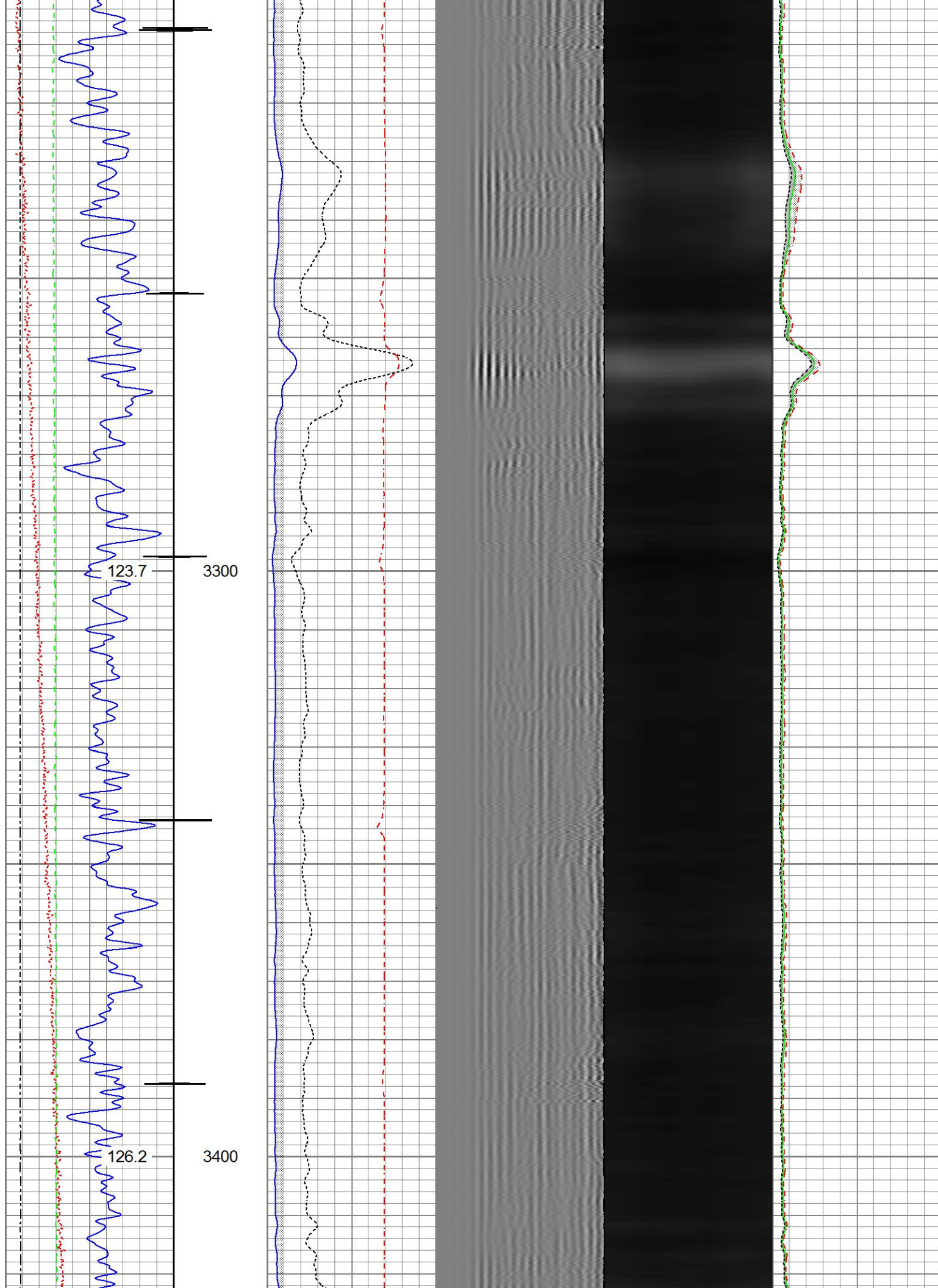


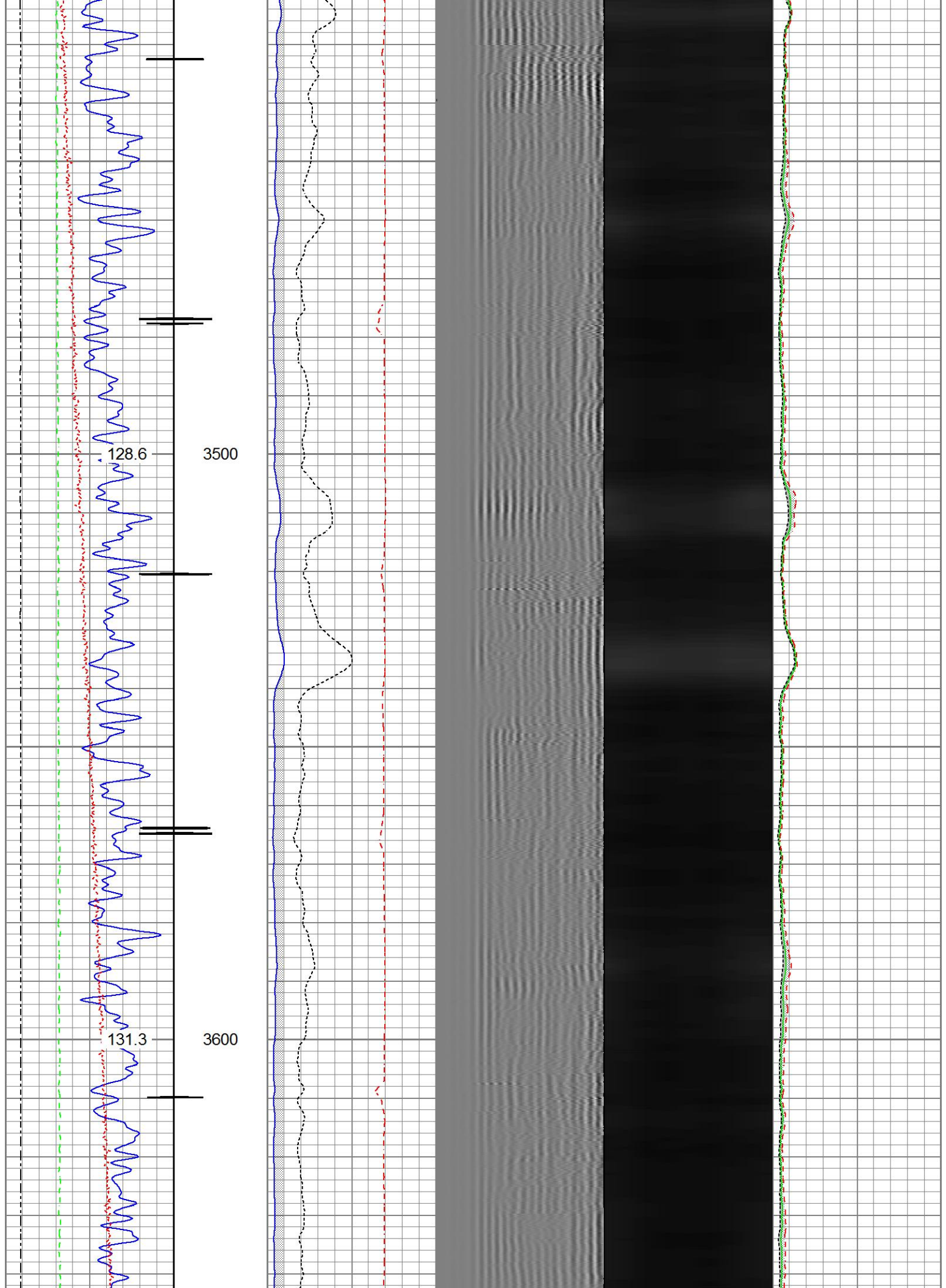


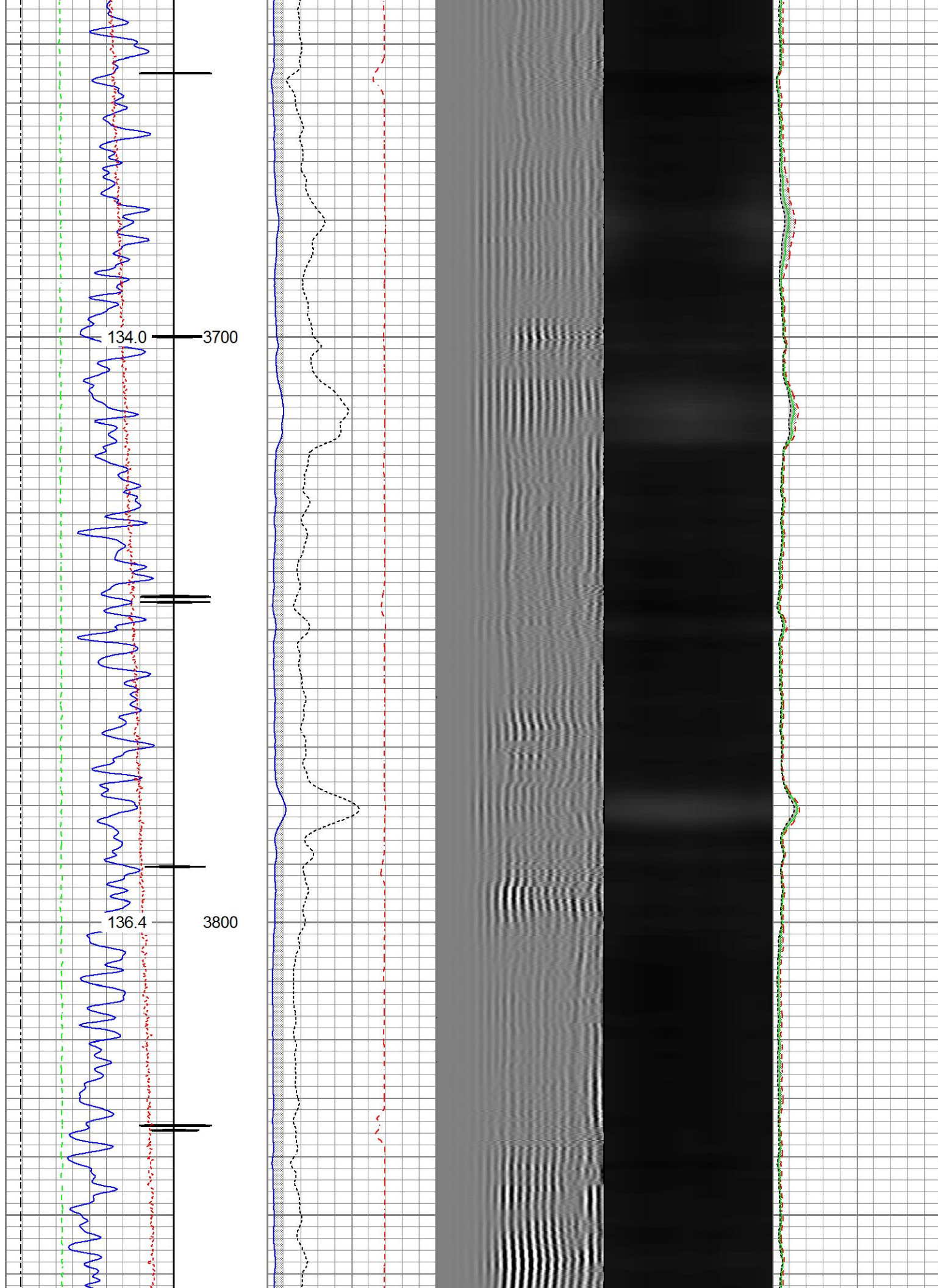


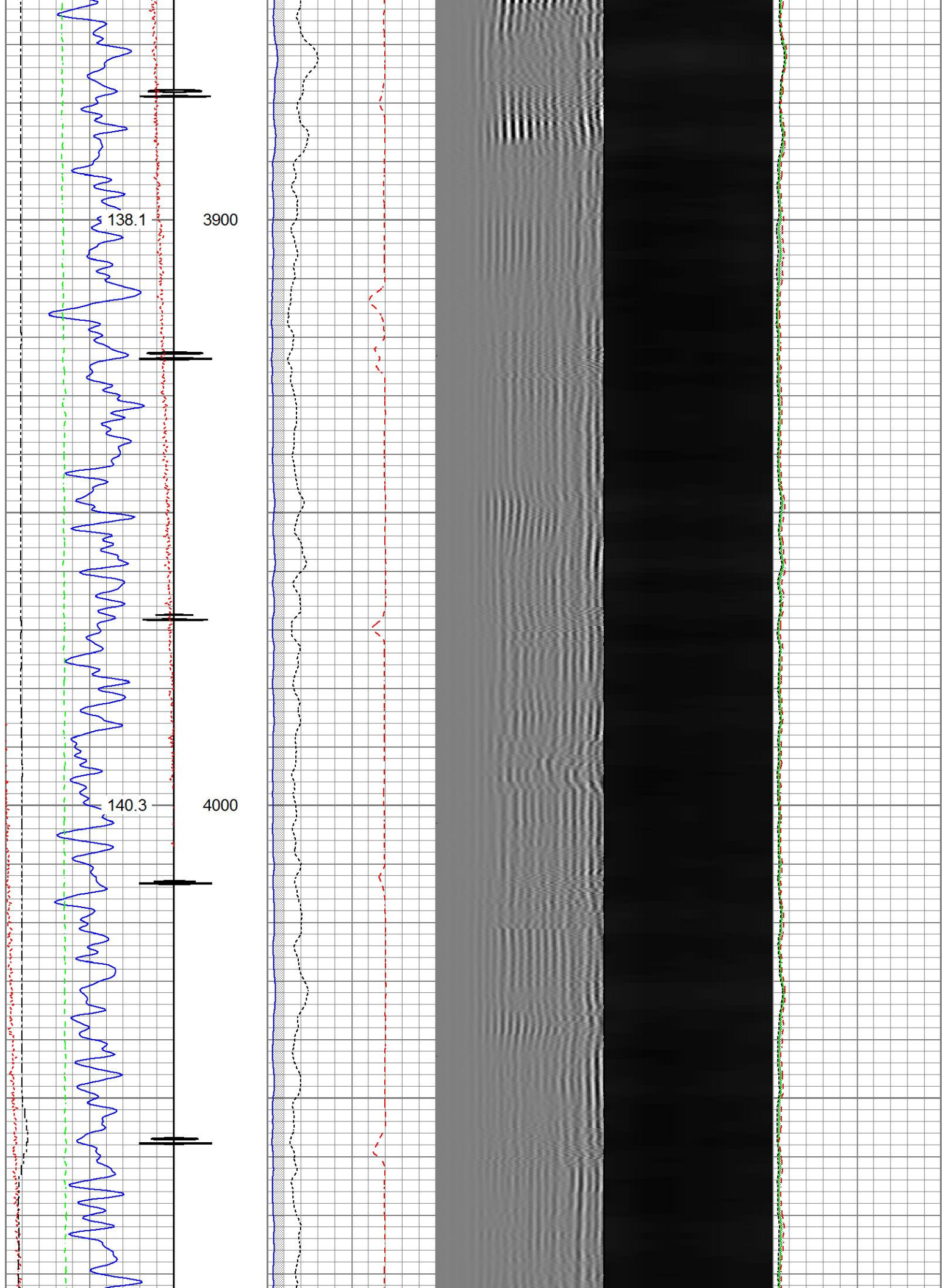


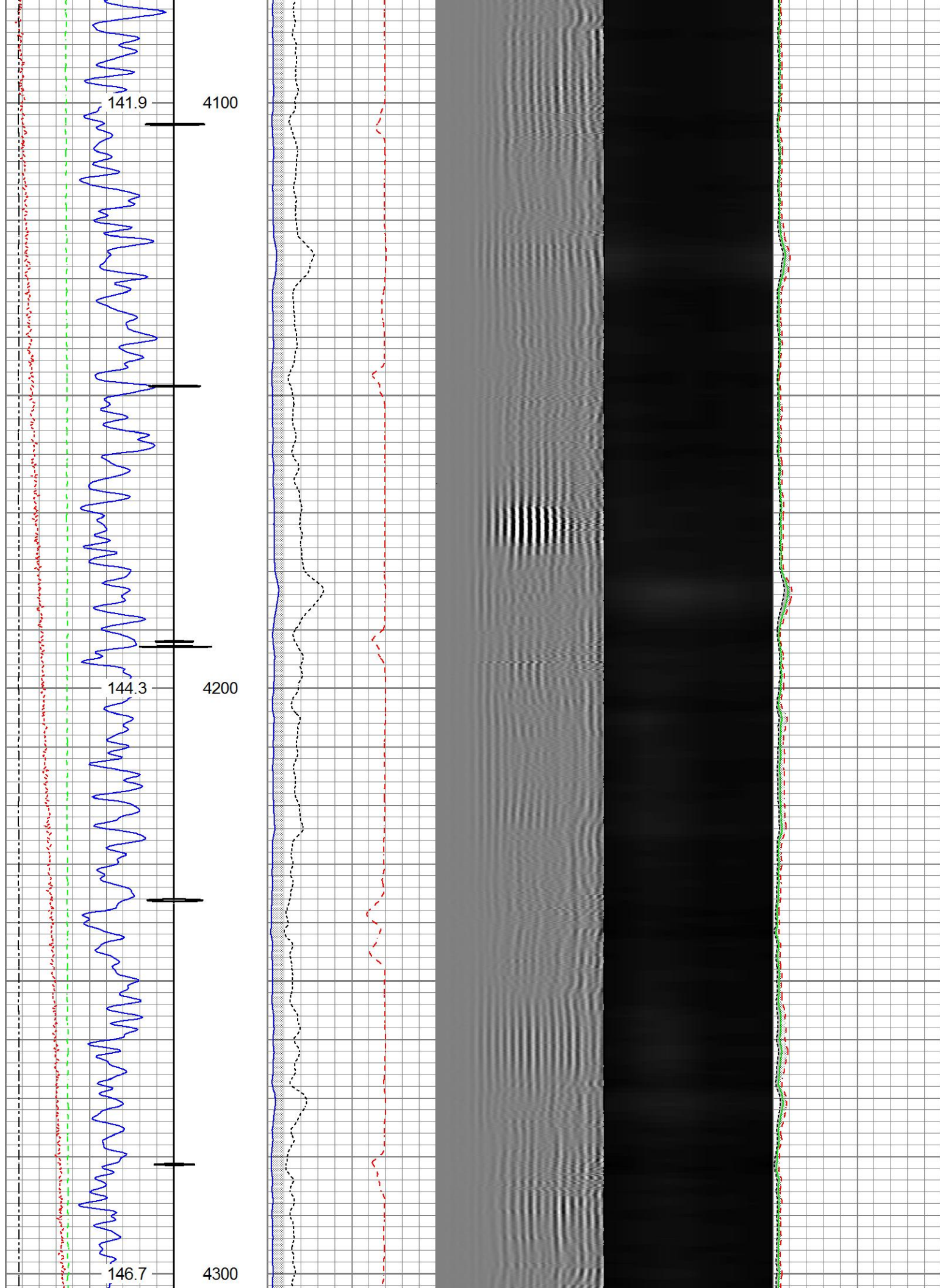


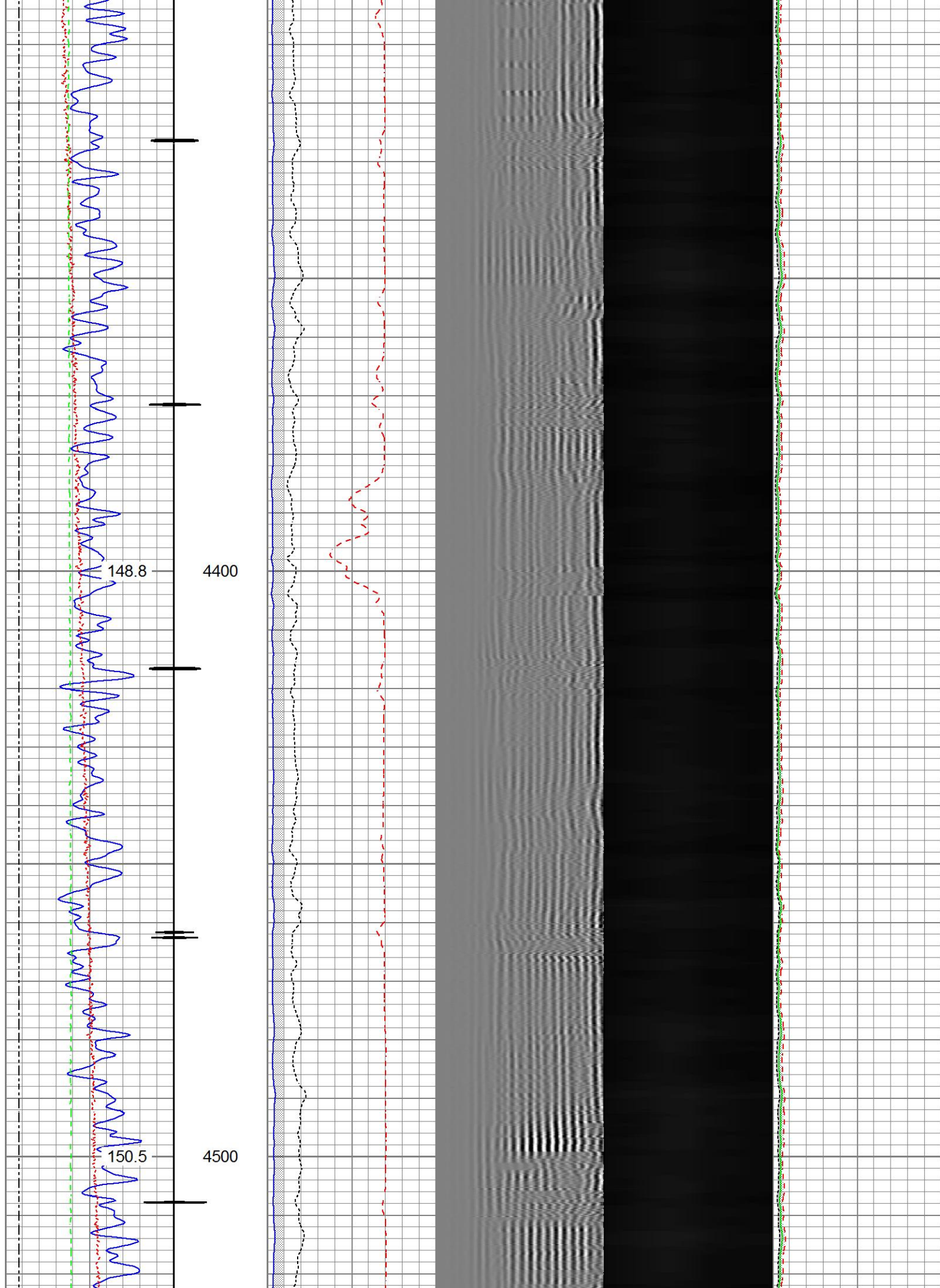


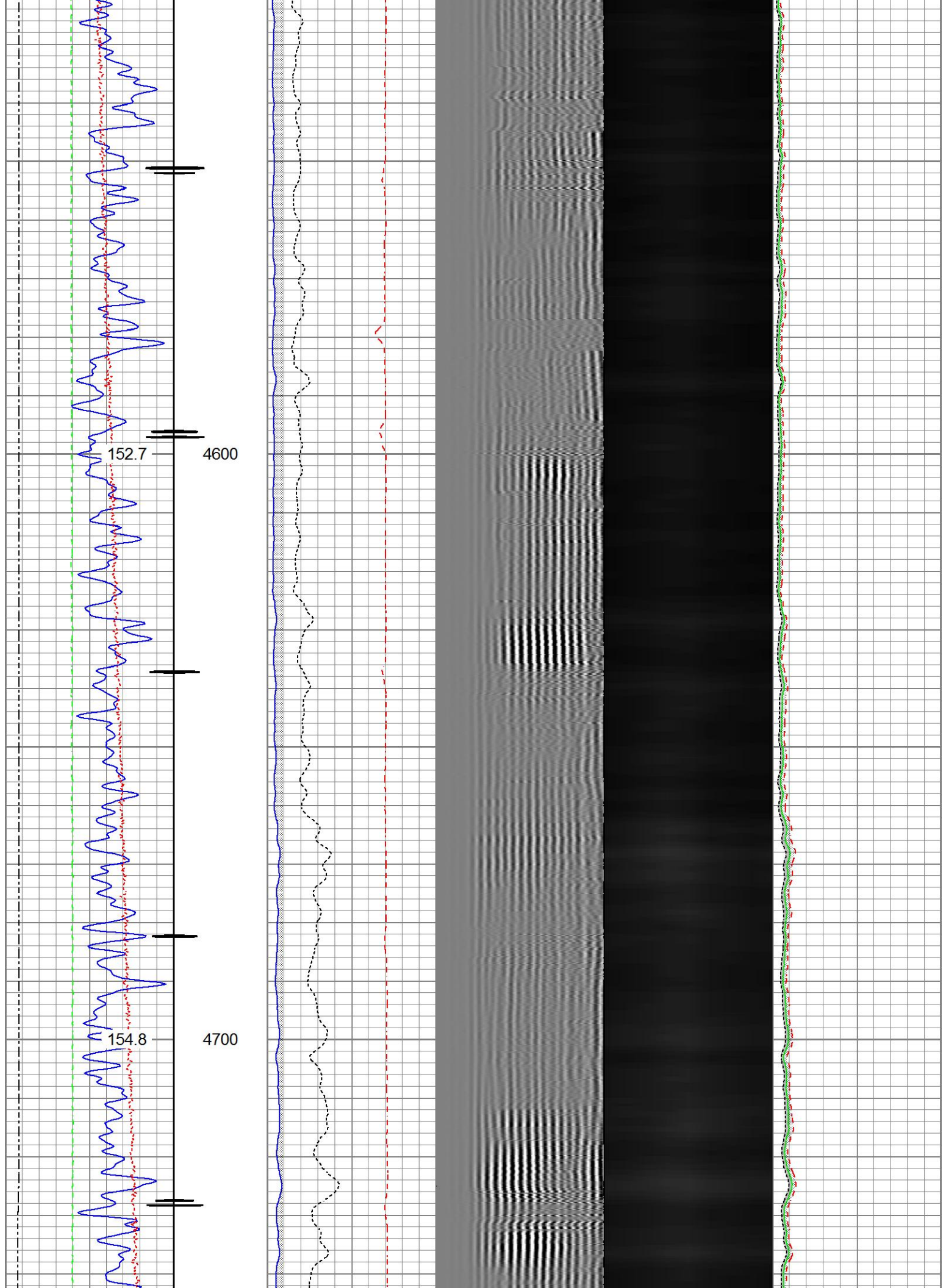


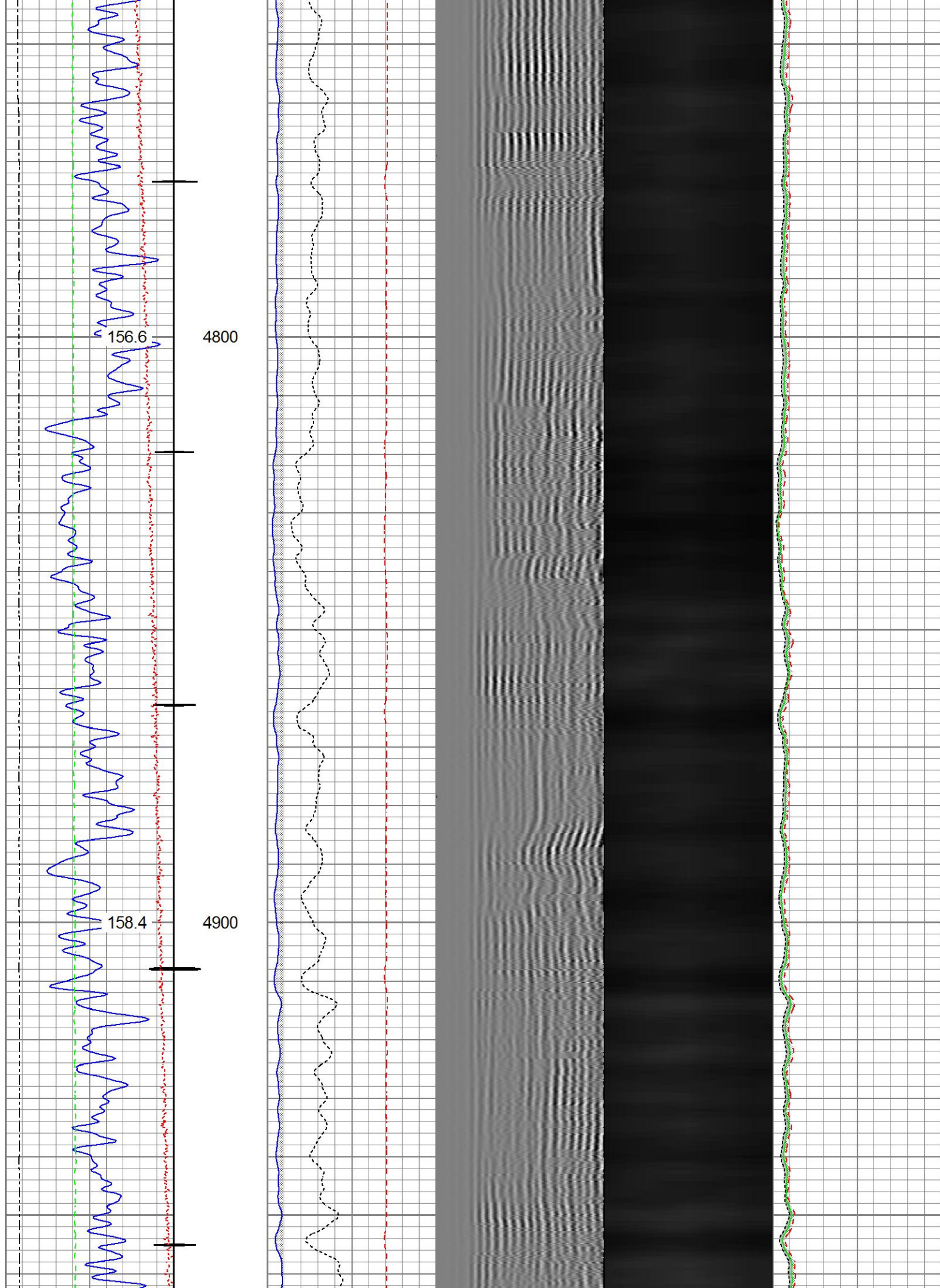


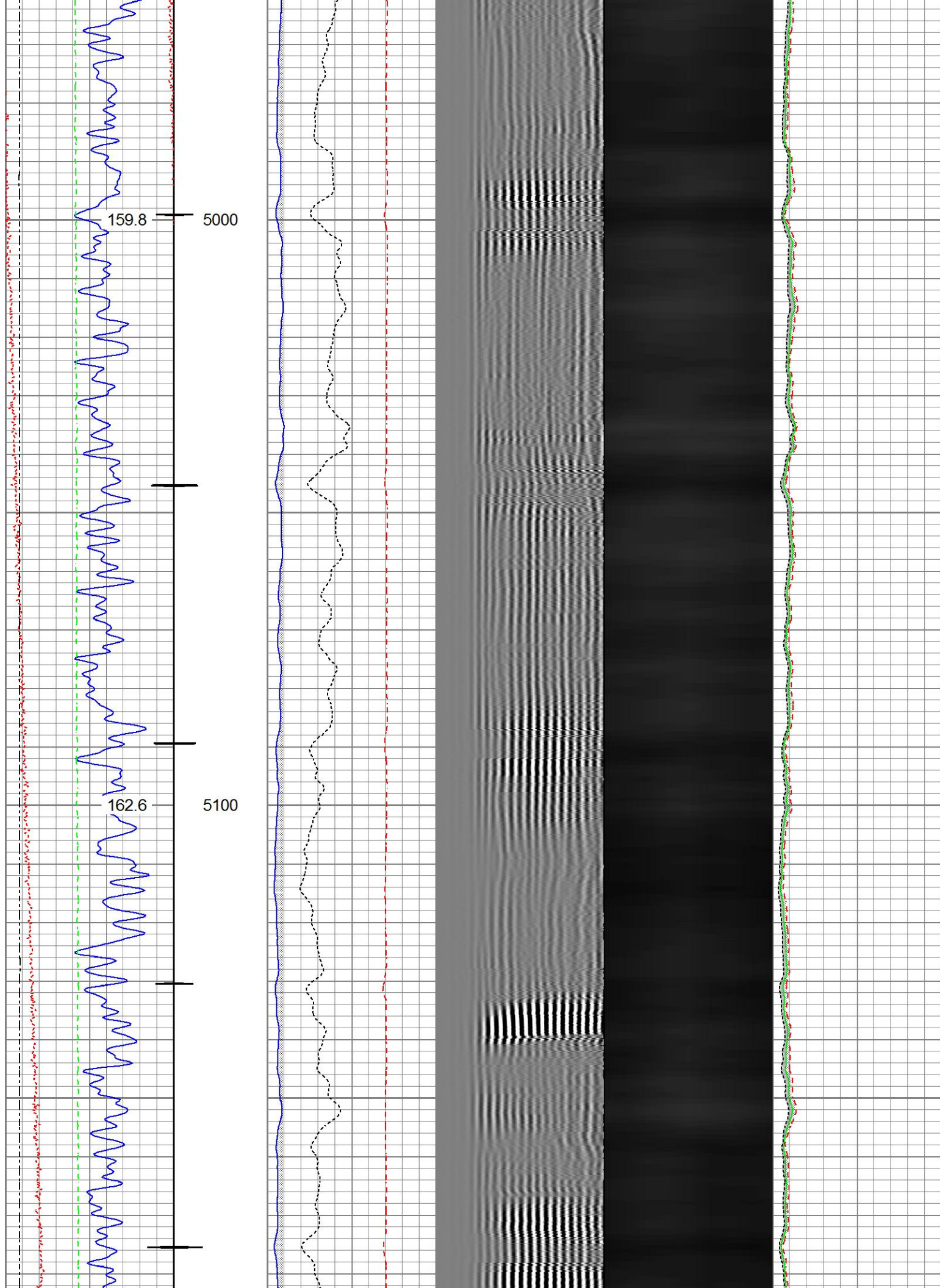


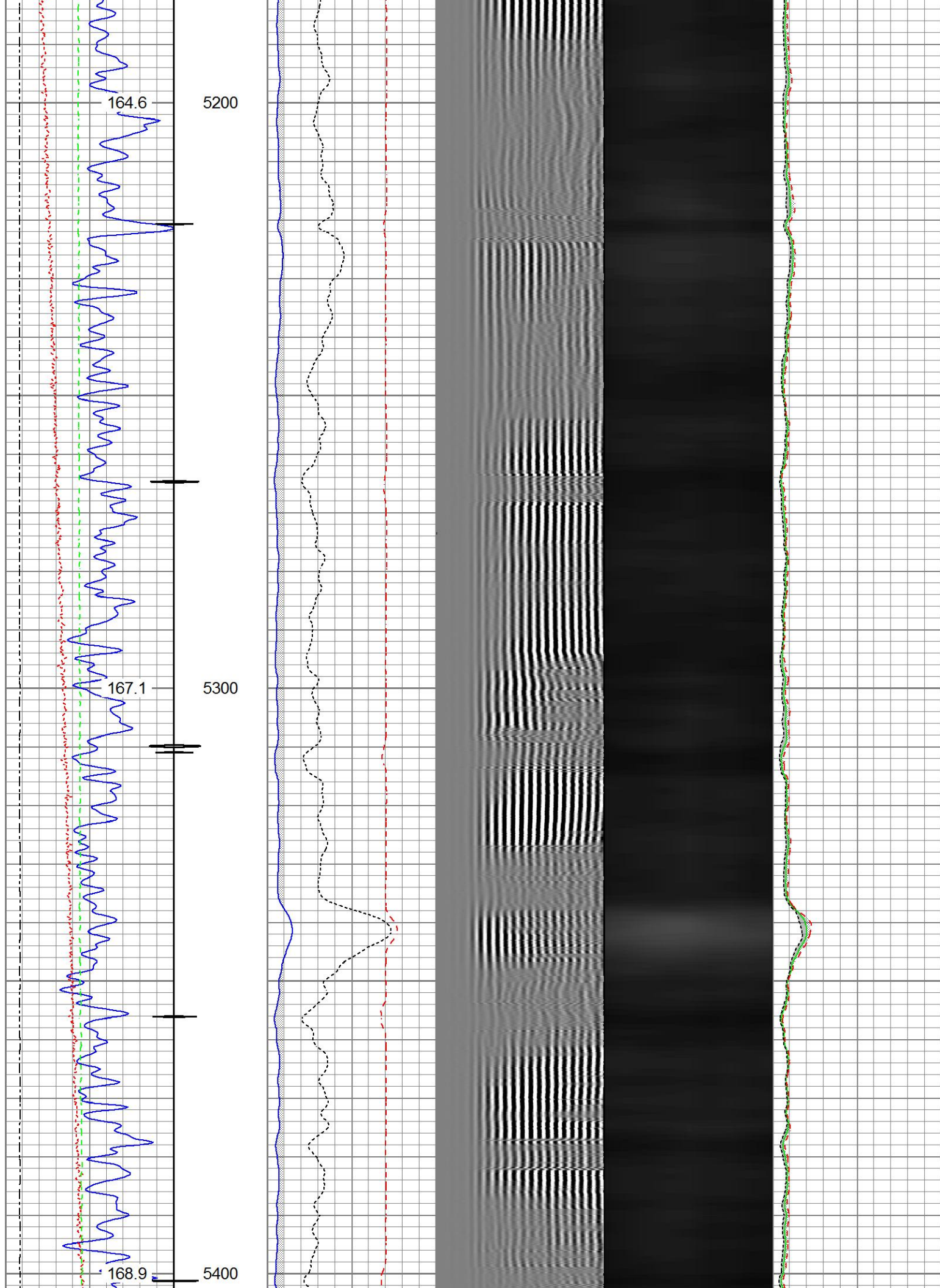


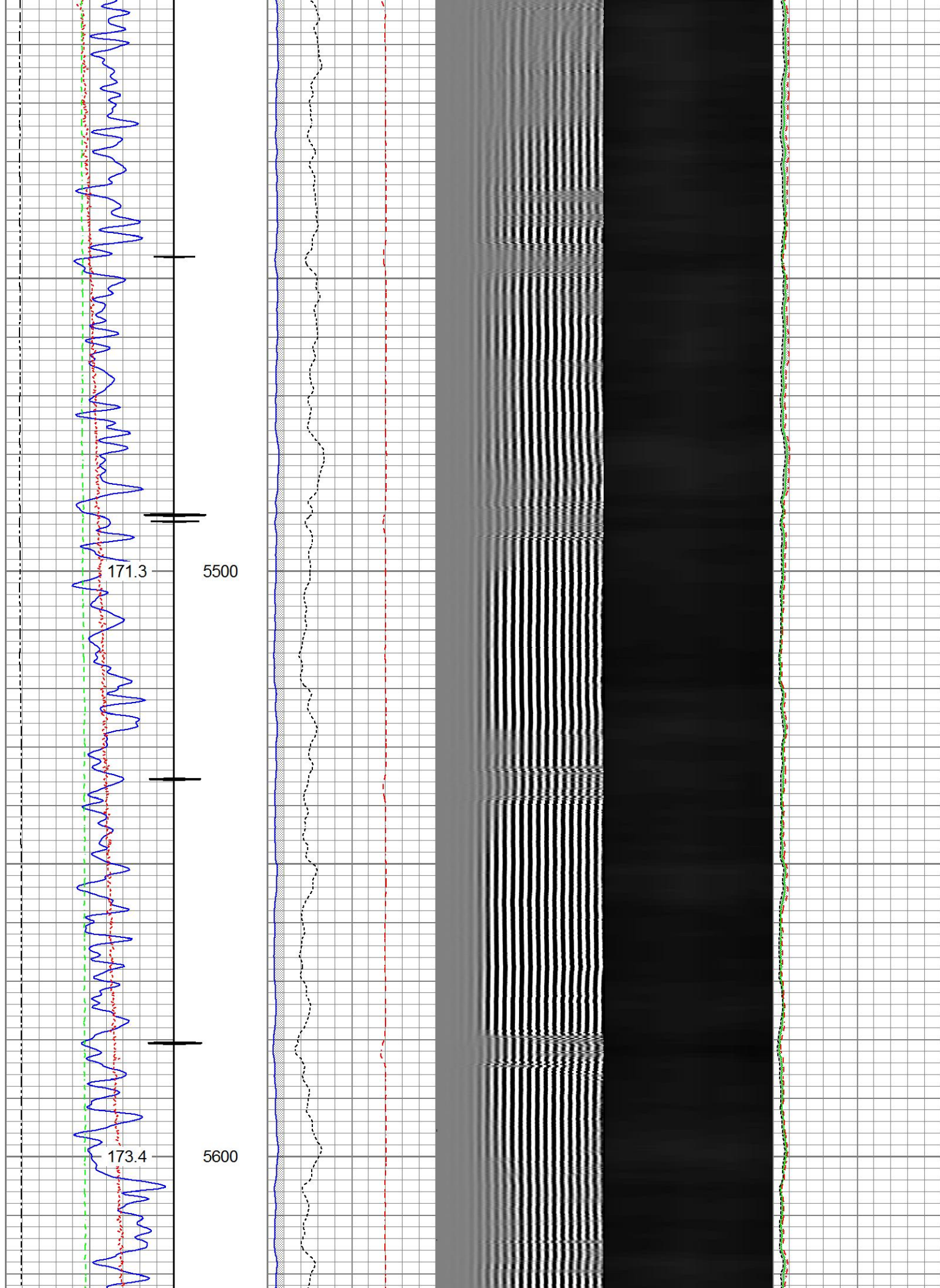


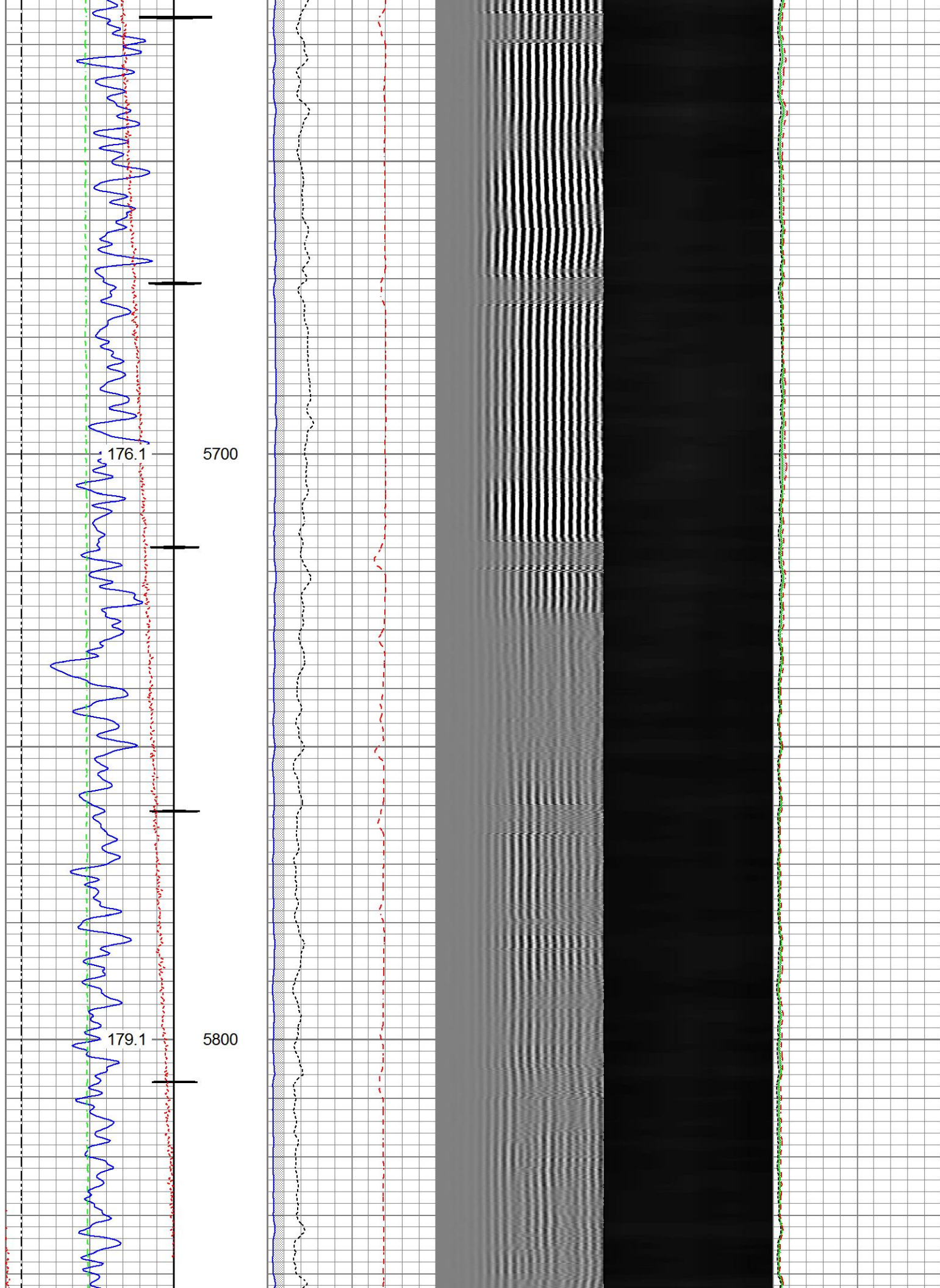


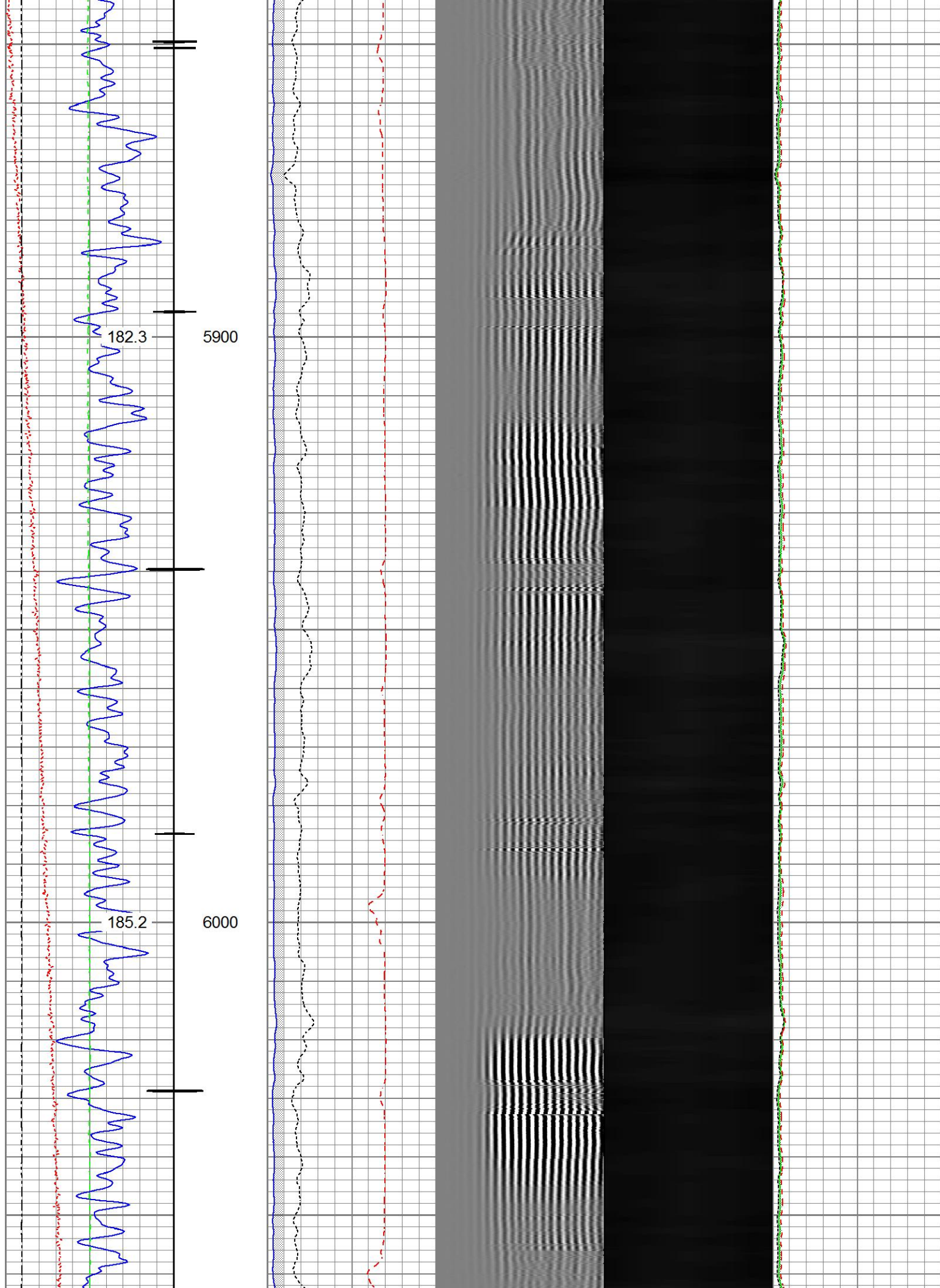


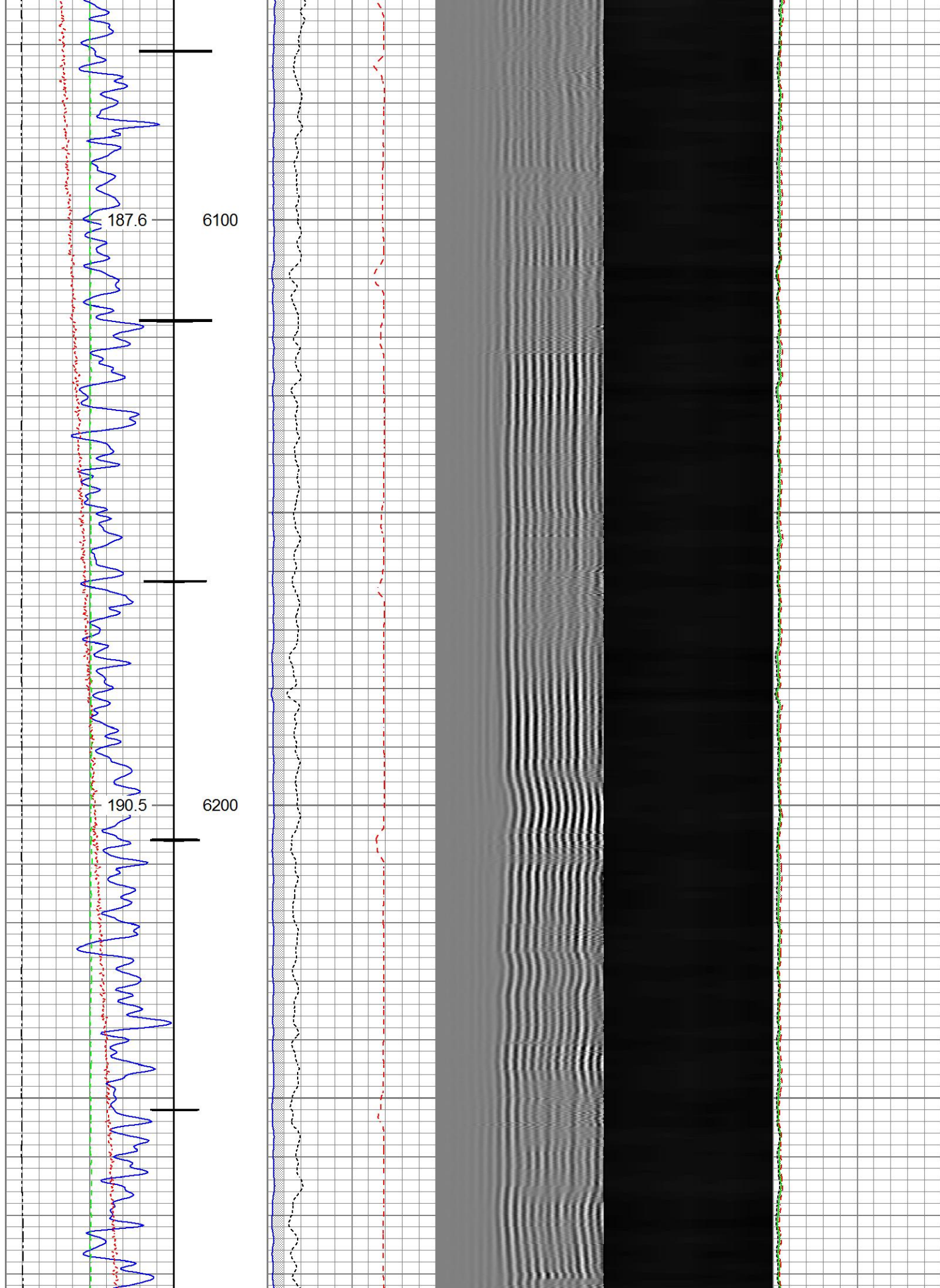


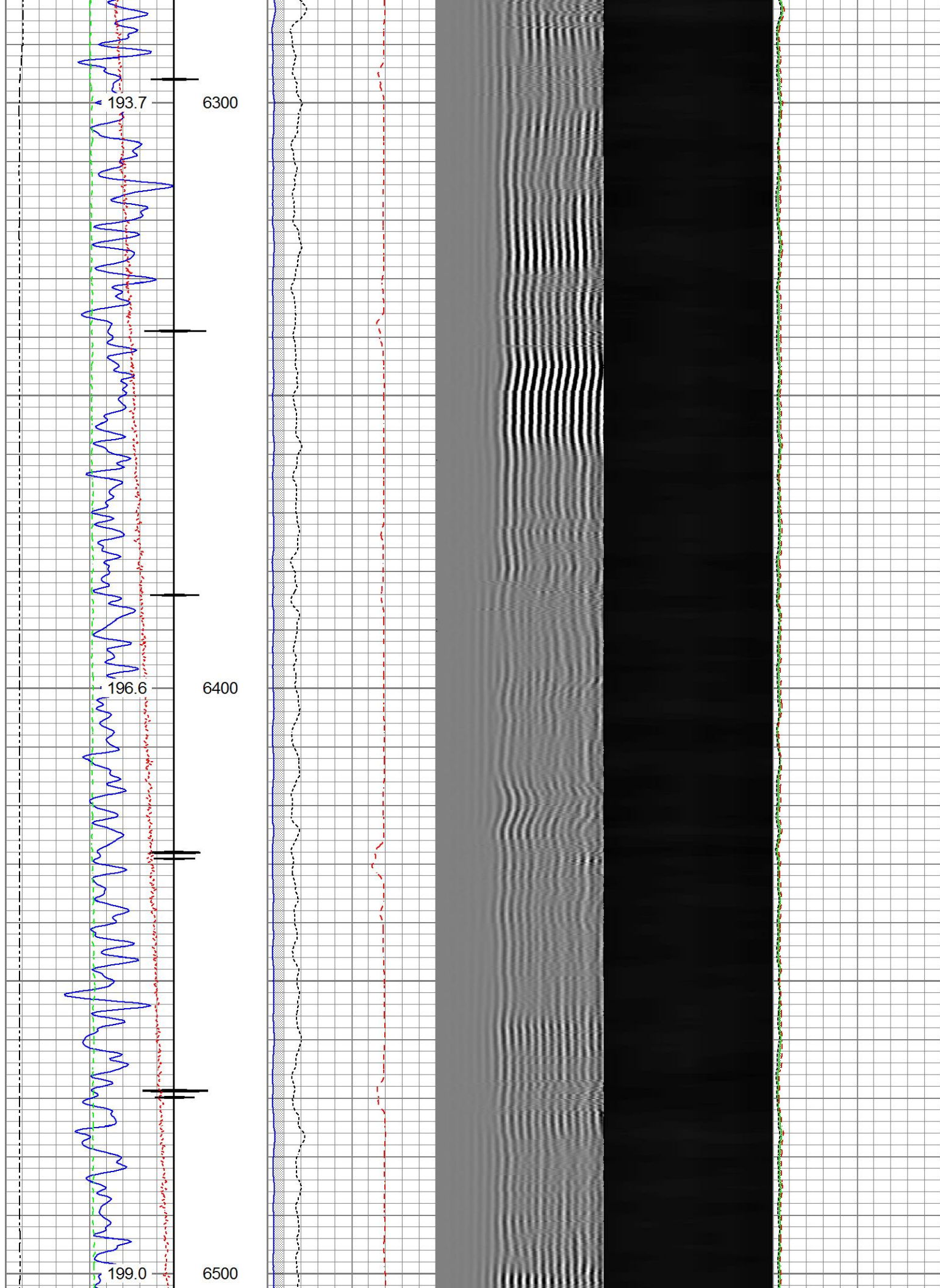


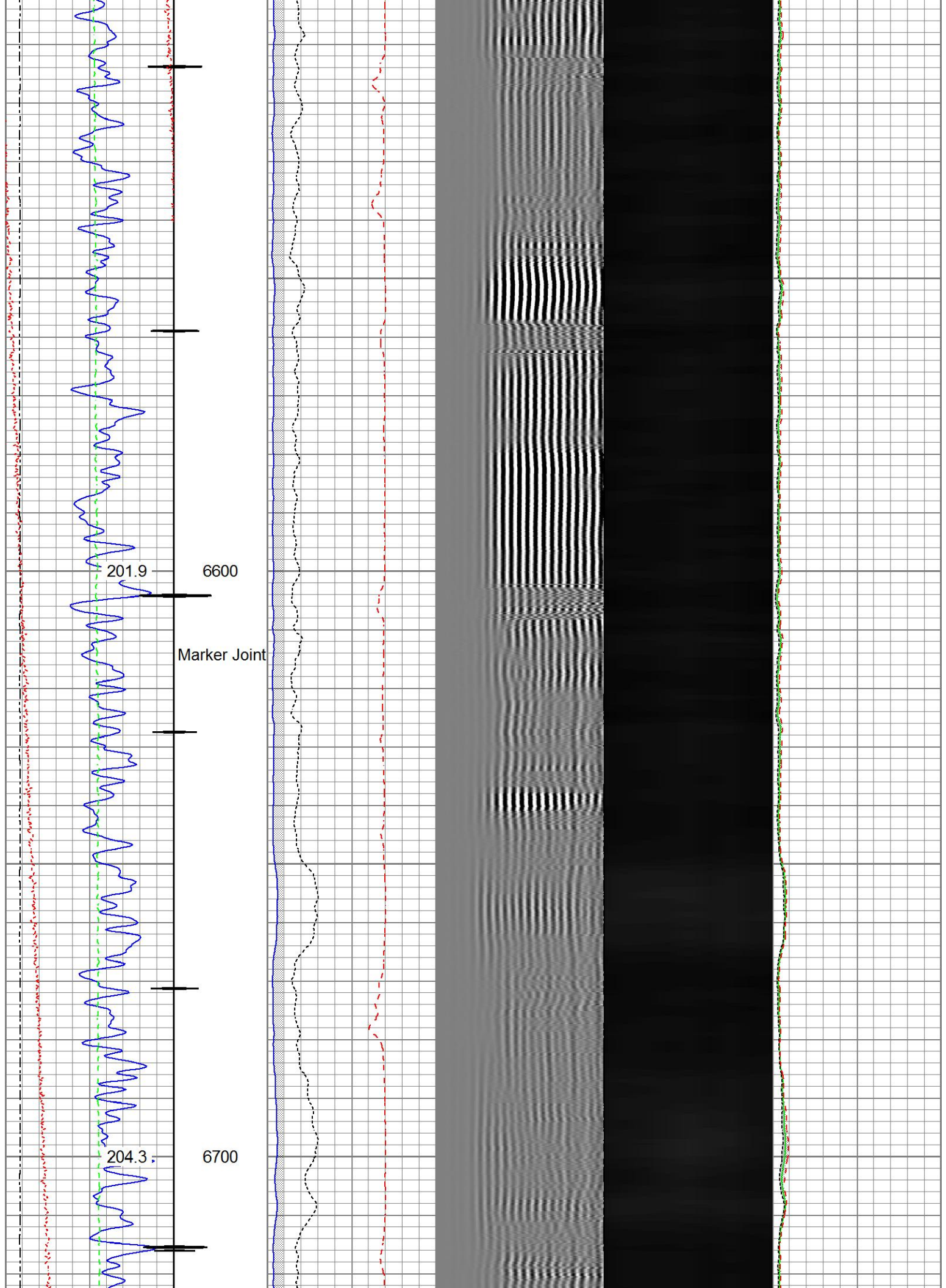


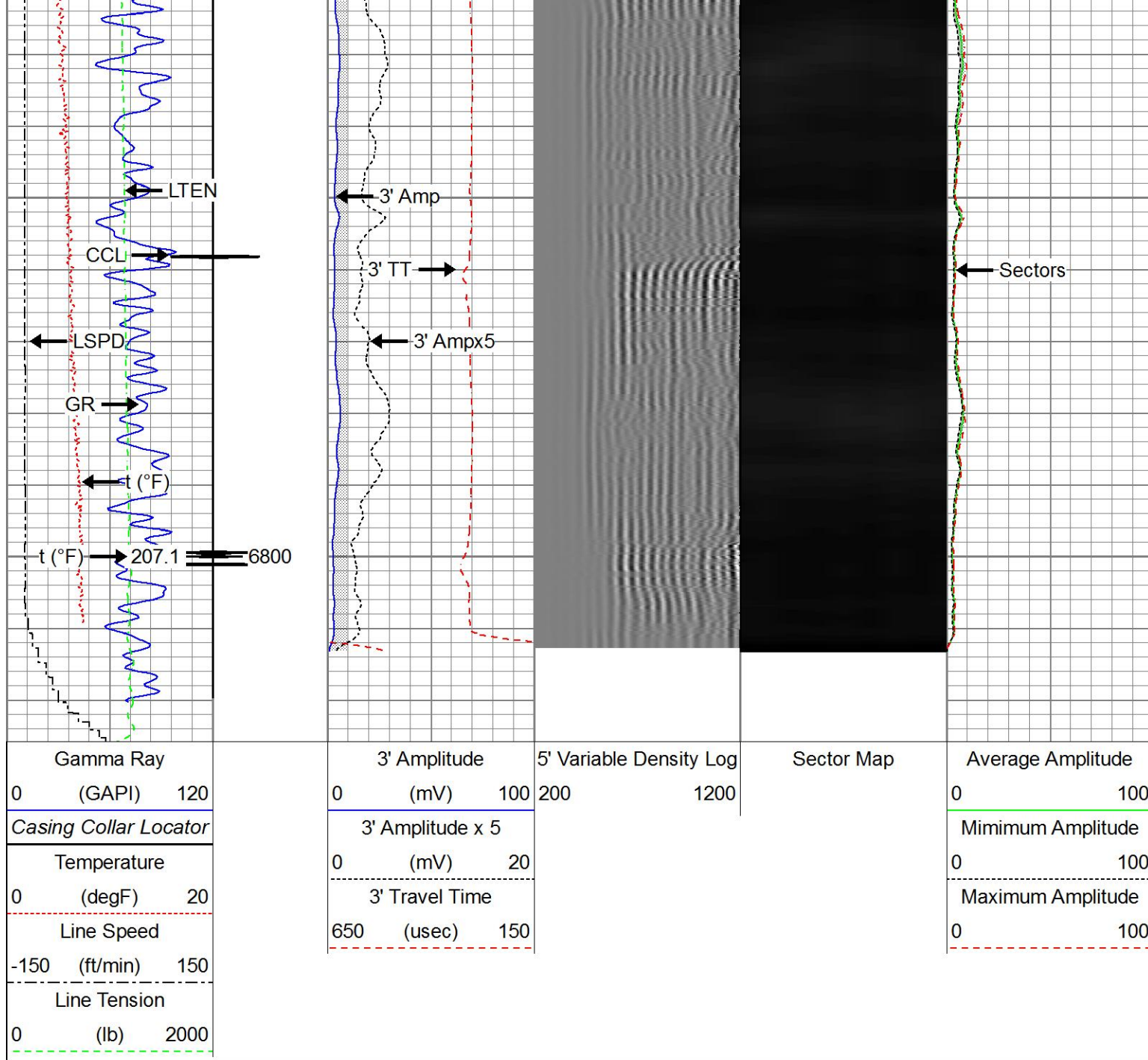








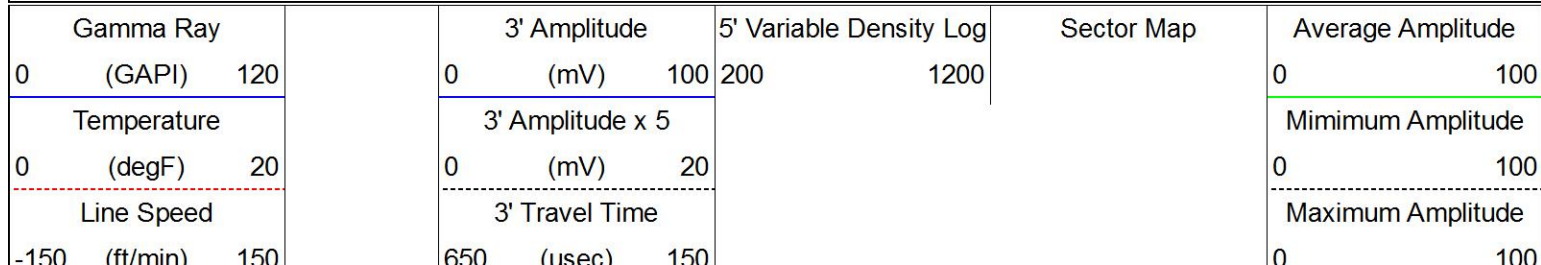


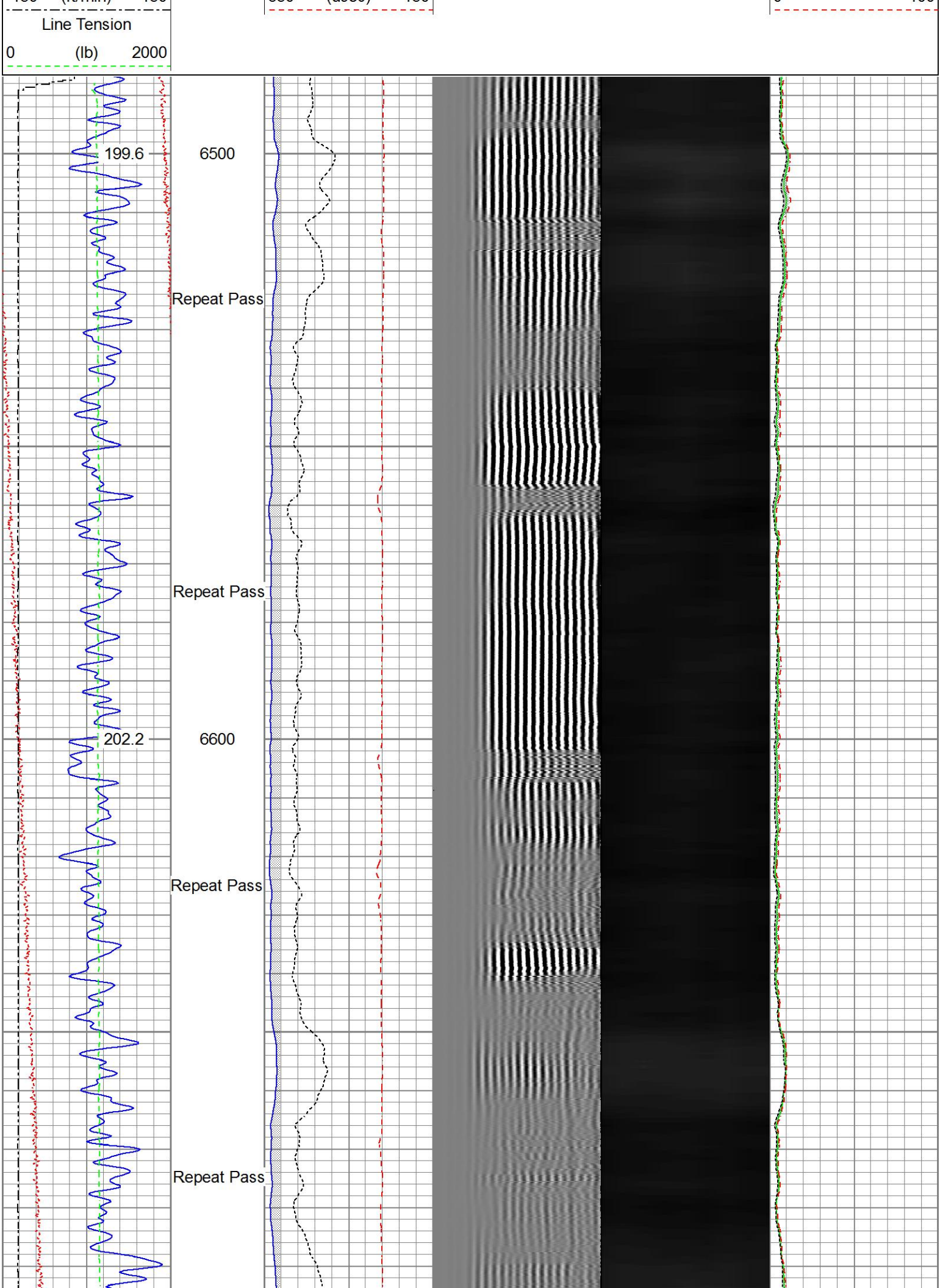


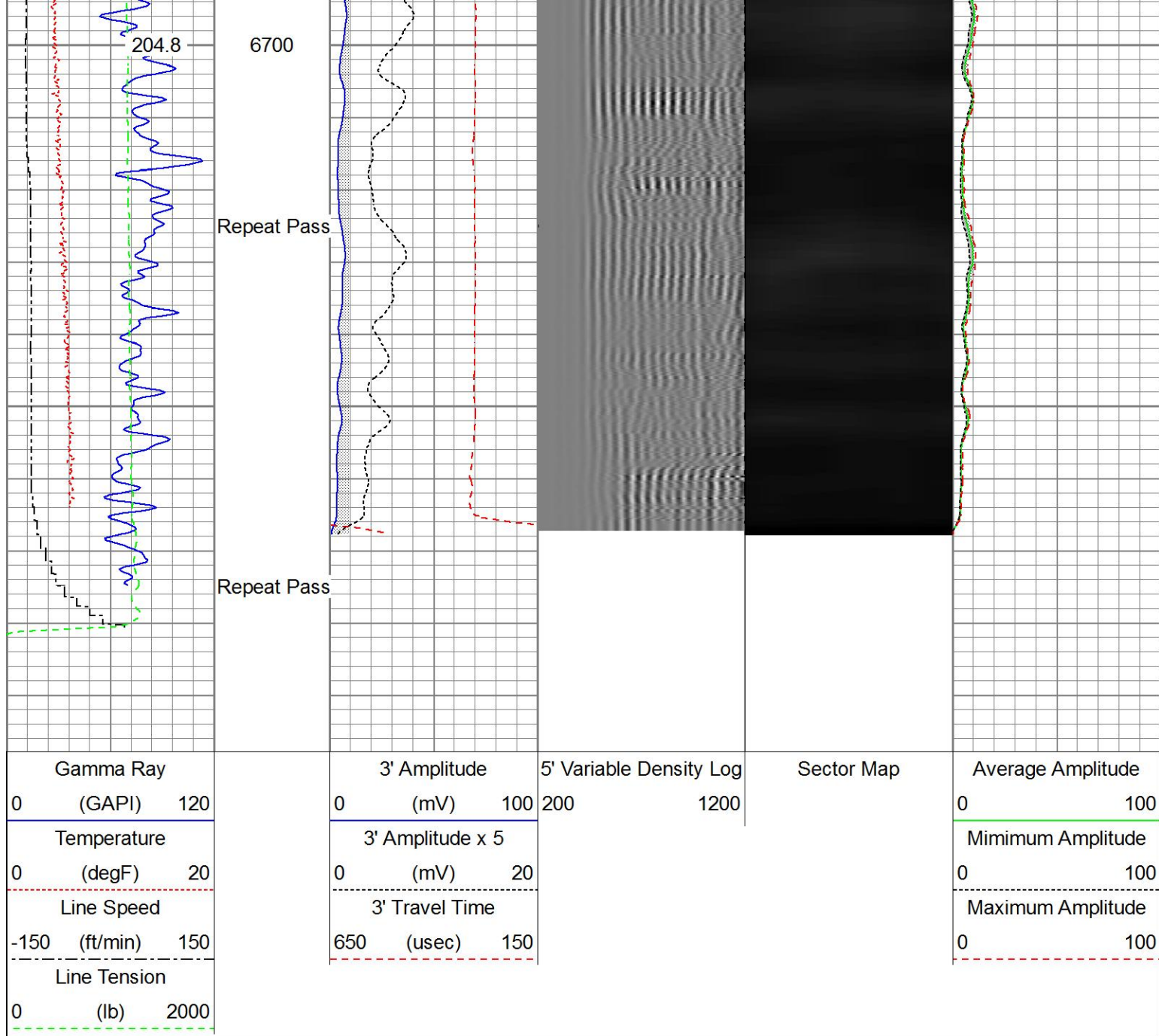
Repeat Pass


Recorded With 2800 PSI Surface Induced Pressure


Database File: anadarko_hilgers_33n2-22hz\0512343309_anadarko_hilgers_33n2-22hz_rbl_07_22_17.db
 Dataset Pathname: pass4
 Presentation Format: ros_radil
 Dataset Creation: Sat Jul 22 08:04:14 2017
 Charted by: Depth in Feet scaled 1:240







Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
HeadVolt	19.51		Titan_Electric_Cable_Heads-Titan_1-11/161.03 Electric Cable Head with 1" Fishing Neck	1.69	1.69	5.40
			Probe_ELine_BowSpring_Centralizer-P-EE2.88_275 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	2.75	20.00
Temp	16.72					

WVFS8	14.55		Probe_RADII-C-P_RBT_2750 (FW1302-009.19) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	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 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	20.00
DCCL	6.51				
CCL	6.51				
			Probe_GR_CCL-P_CGR_2750_S (FW1214.543) Probe 2-3/4" Digital CCL / Gamma Ray Combined	2.75	55.00
GR	3.77				
			Probe_ELine_BowSpring_Centralizer-P Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	20.00
Dataset: 0512343309_Anadarko_Hilgers 33N2-22HZ_RBL_07_22_17.db: field/well/run1/pass6 Total length: 23.40 ft Total weight: 225.40 lb O.D.: 2.75 in					

Calibration Report		
Database File	D:\Warrior\Data\Anadarko_Hilgers_33N2-22HZ\0512343309_Anadarko_Hilgers 33N2-22HZ_RBL_07_22_17	
Dataset Pathname	pass6	
Dataset Creation	Sat Jul 22 08:10:00 2017	
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: FW1302-002
Tool Model: P_RBT_2750

Calibration Casing Diameter: 5.500 in
Calibration Depth: 1.349 ft

Master Calibration, performed Sat Jul 22 06:21:41 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.712	0.800	71.921	100.066	0.717
CAL	0.001	0.726				
5'	0.001	0.654	0.800	71.921	108.969	0.706
SUM						
S1	0.002	0.715	0.000	100.000	140.204	-0.231
S2	0.001	0.709	0.000	100.000	141.237	-0.186
S3	0.002	0.710	0.000	100.000	141.091	-0.212
S4	0.001	0.715	0.000	100.000	140.224	-0.200
S5	0.001	0.716	0.000	100.000	139.898	-0.161
S6	0.001	0.713	0.000	100.000	140.541	-0.177
S7	0.001	0.711	0.000	100.000	140.940	-0.174
S8	0.001	0.708	0.000	100.000	141.446	-0.204

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.726	1.000	0.000

Air Zero Calibration, performed Sat Jul 22 06:20:42 2017:

	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 Hilgers 33N2-22HZ
Field Wattenberg
County Weld
State Colorado