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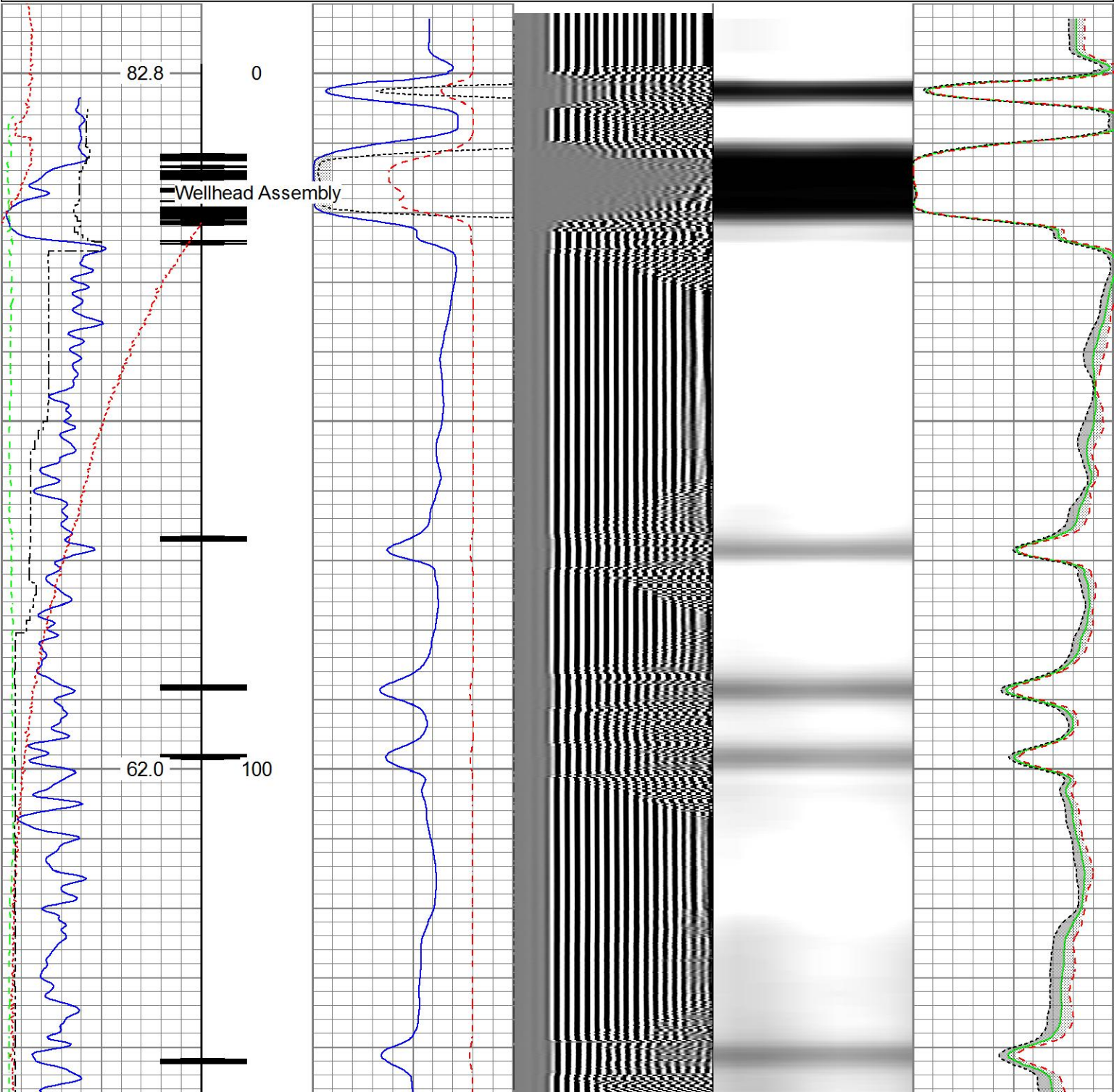
Comments

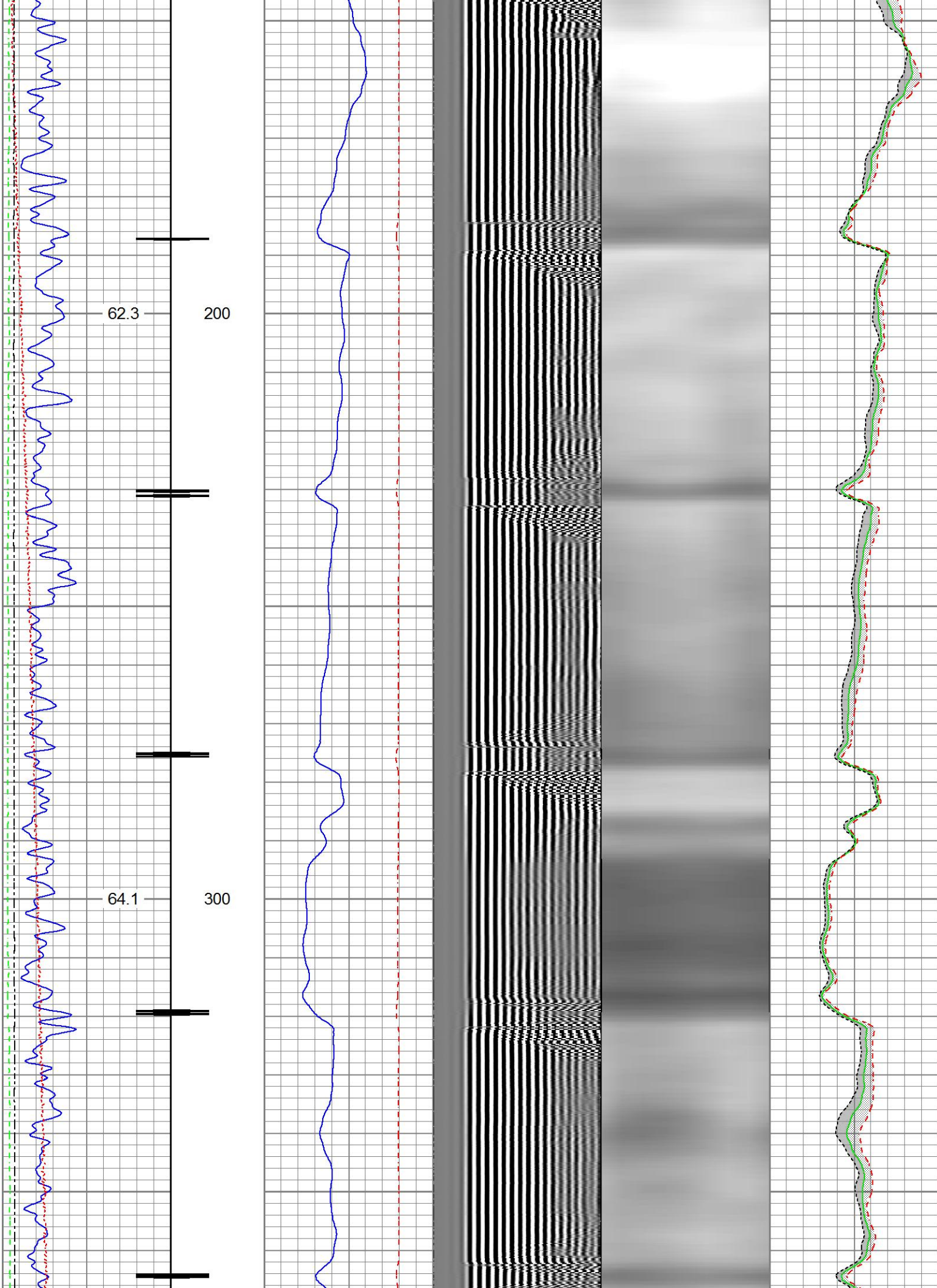


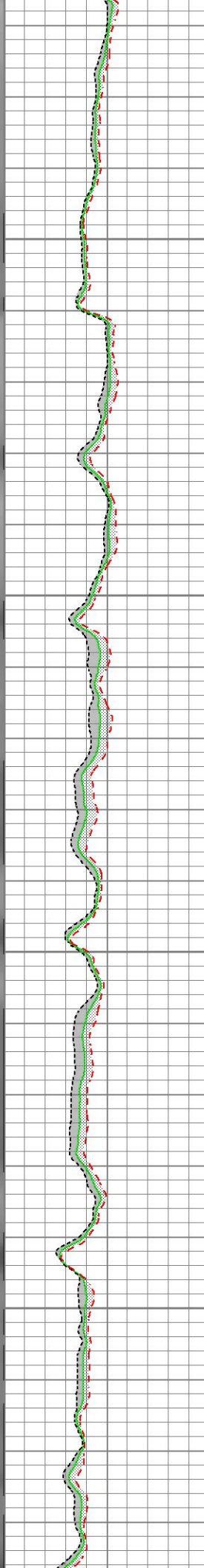
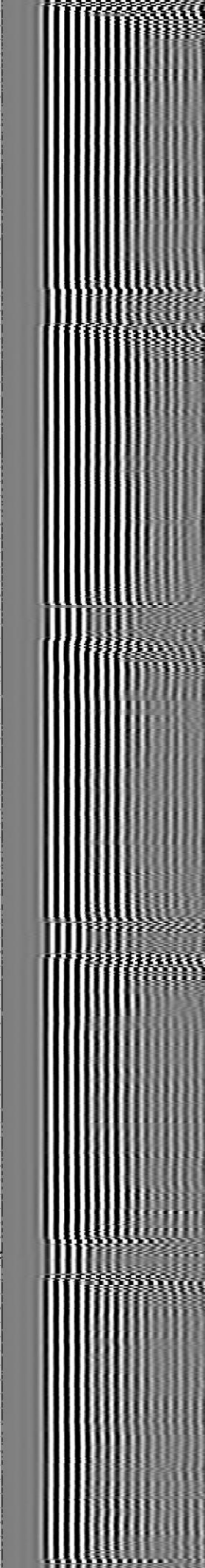
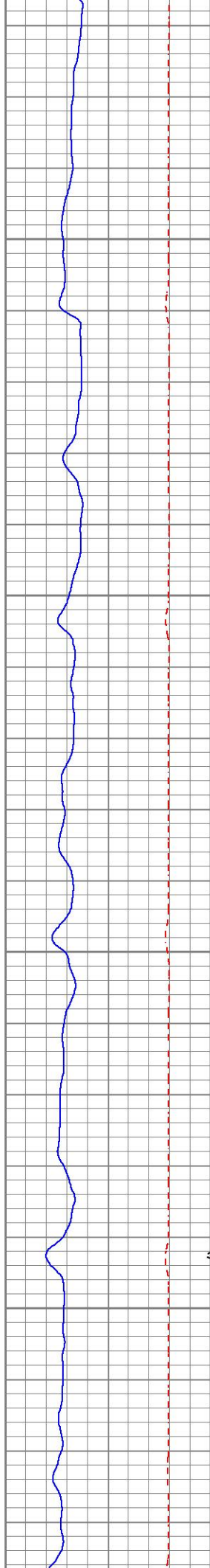
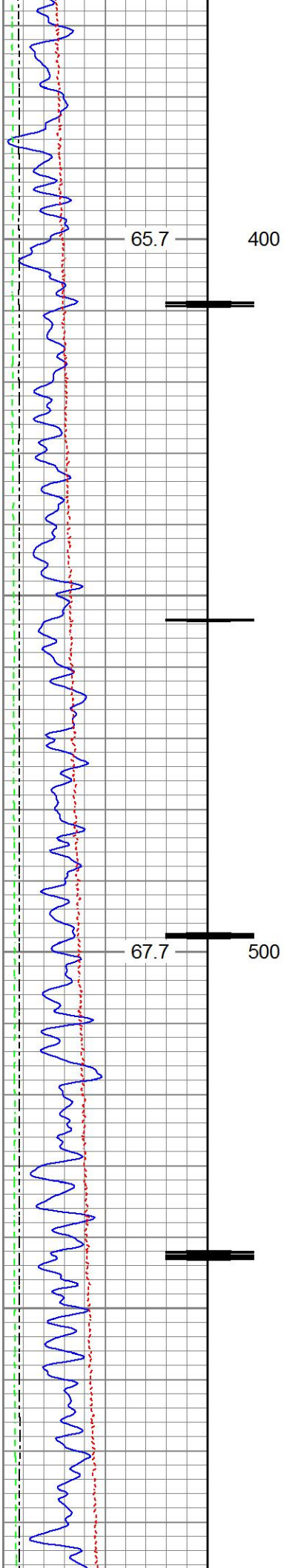
RELIANCE
OILFIELD SERVICES

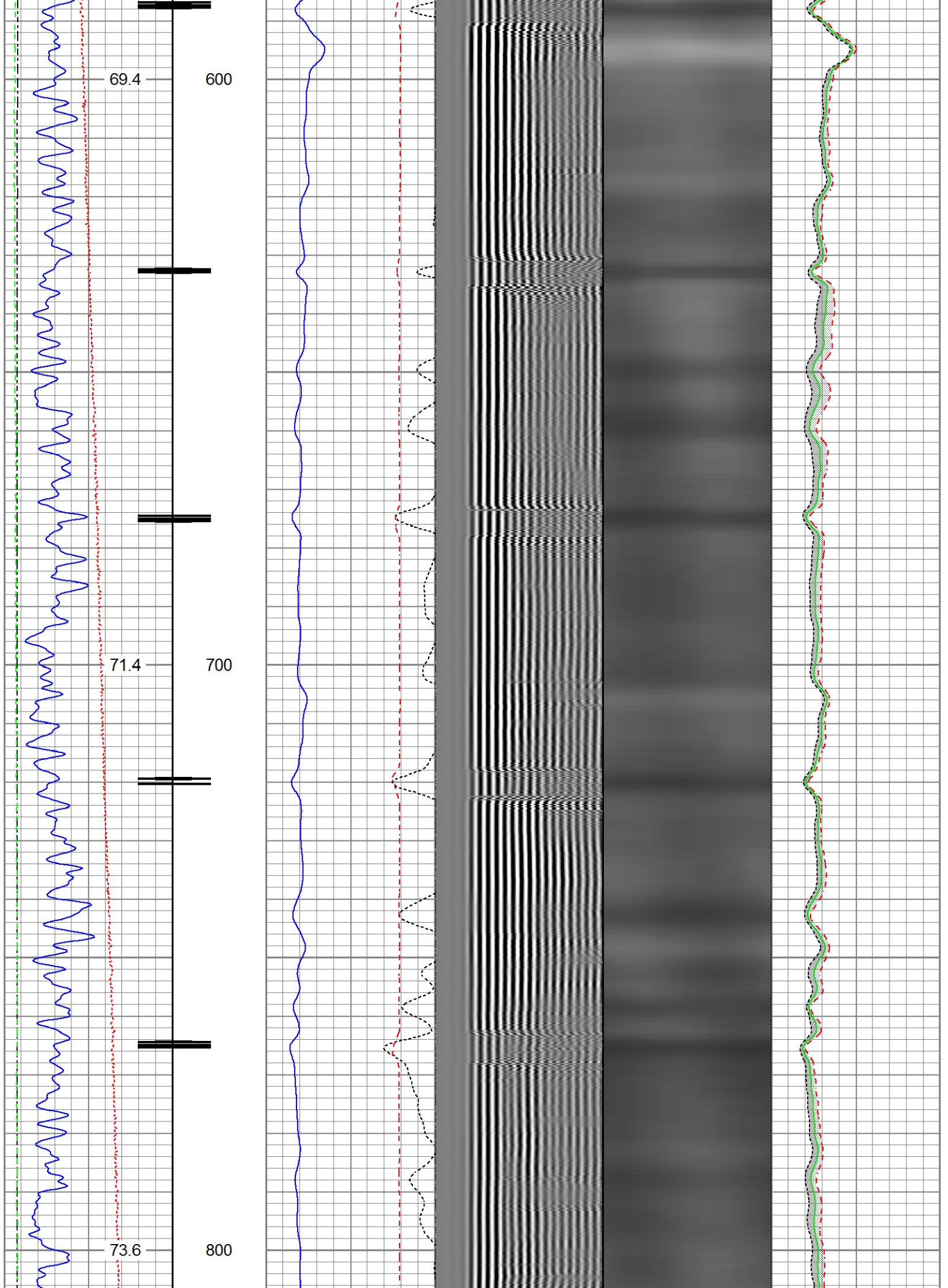
Recorded With 2800 PSI Surface Induced Pressure

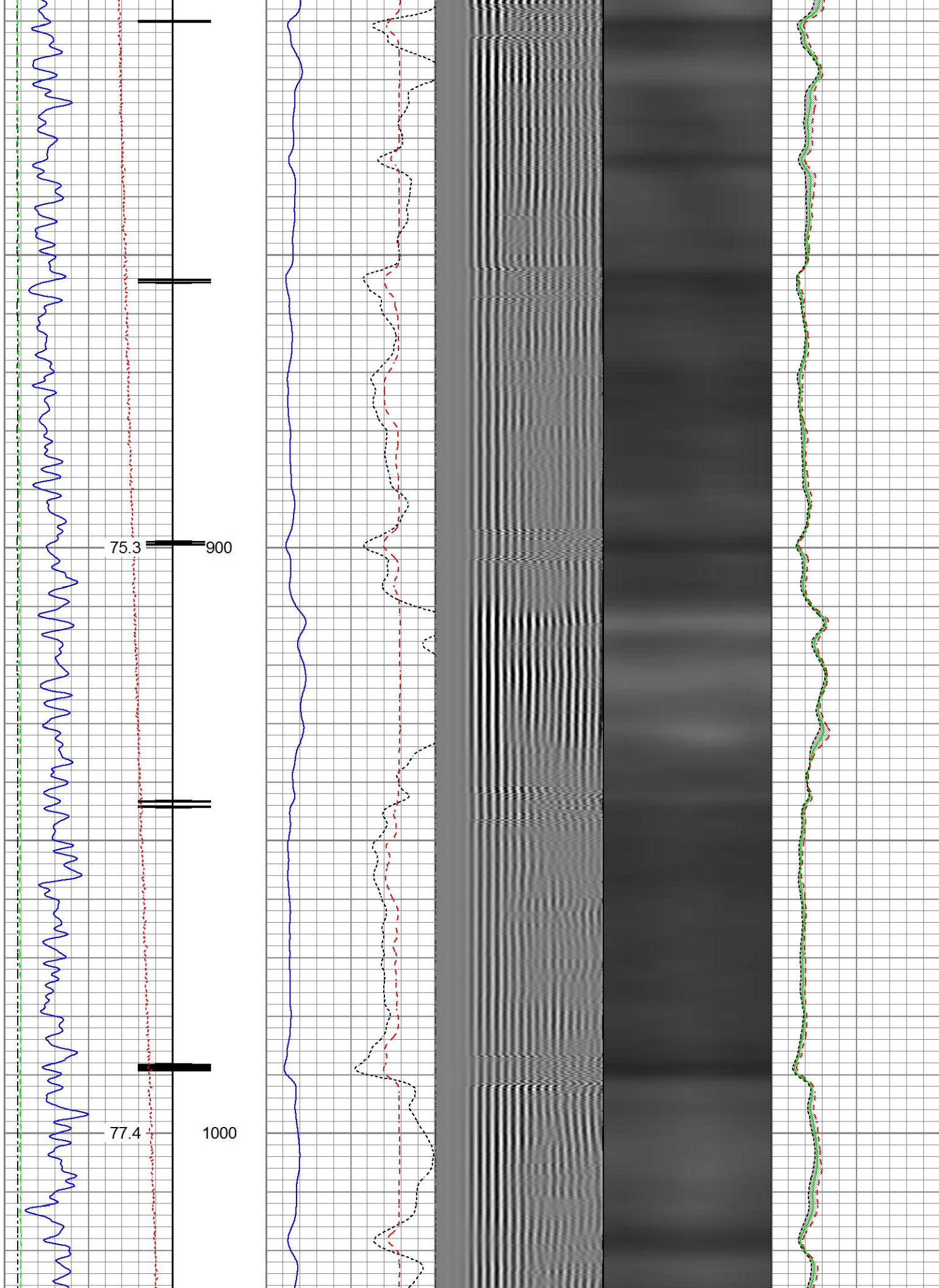
Gamma Ray			3' Amplitude			5' Variable Density Log		Sector Map		Average Amplitude	
0	(GAPI)	120	0	(mV)	100	200	1200			0	100
Casing Collar Locator			3' Amplitude x 5							Minimum Amplitude	
Temperature			0 (mV) 20							0 100	
0 (degF) 20			3' Travel Time							Maximum Amplitude	
Line Speed			650 (usec)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

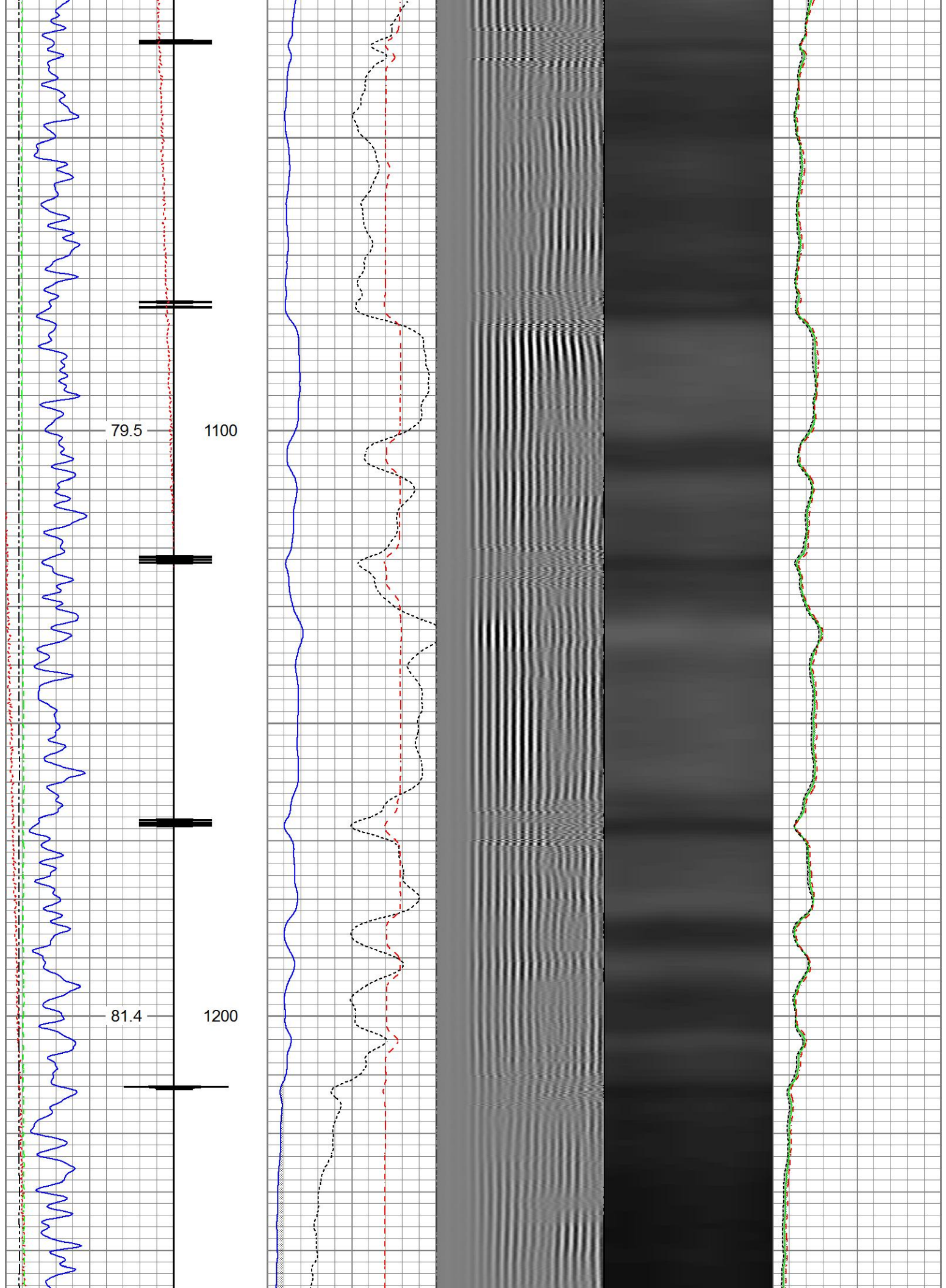


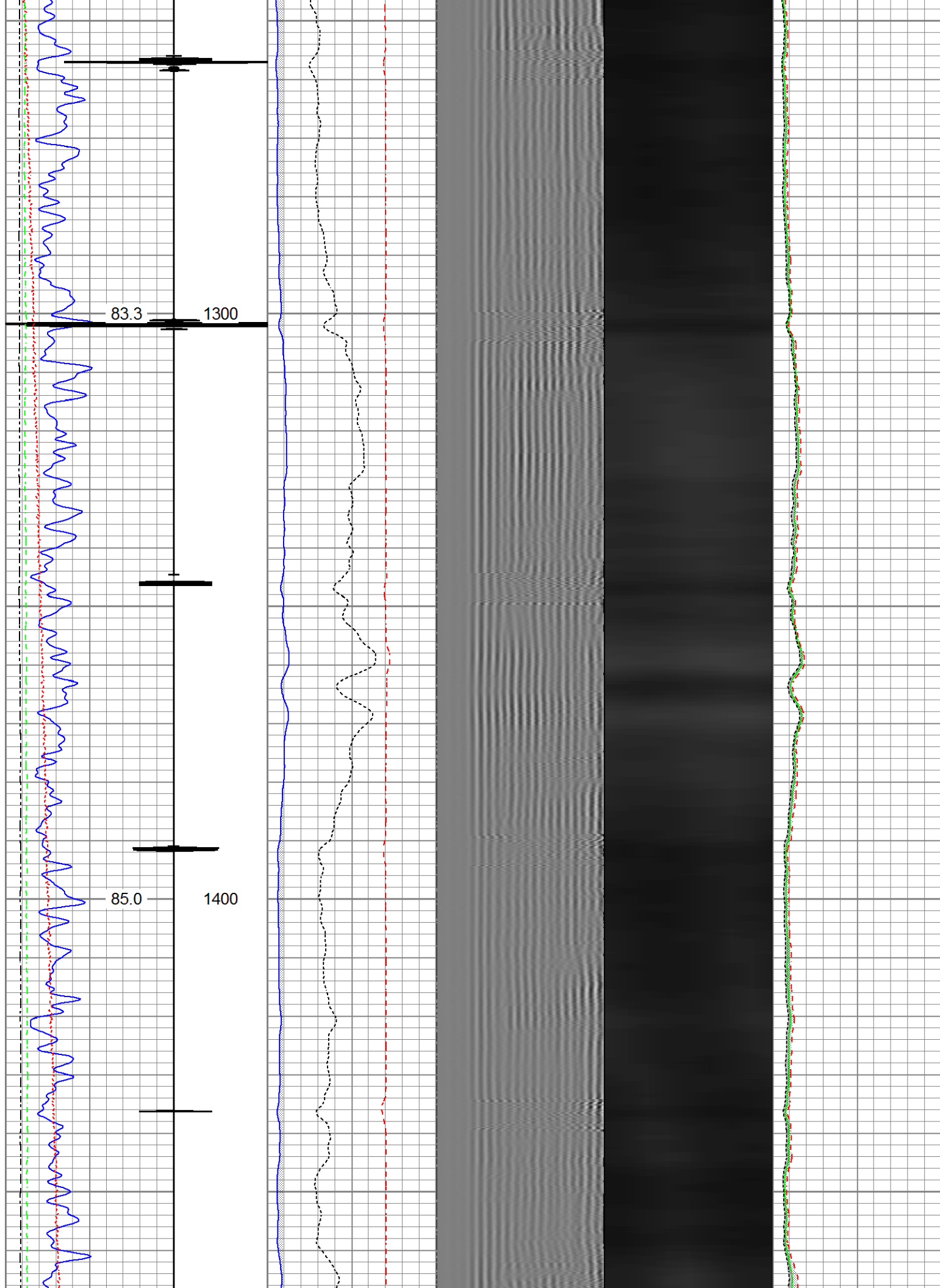


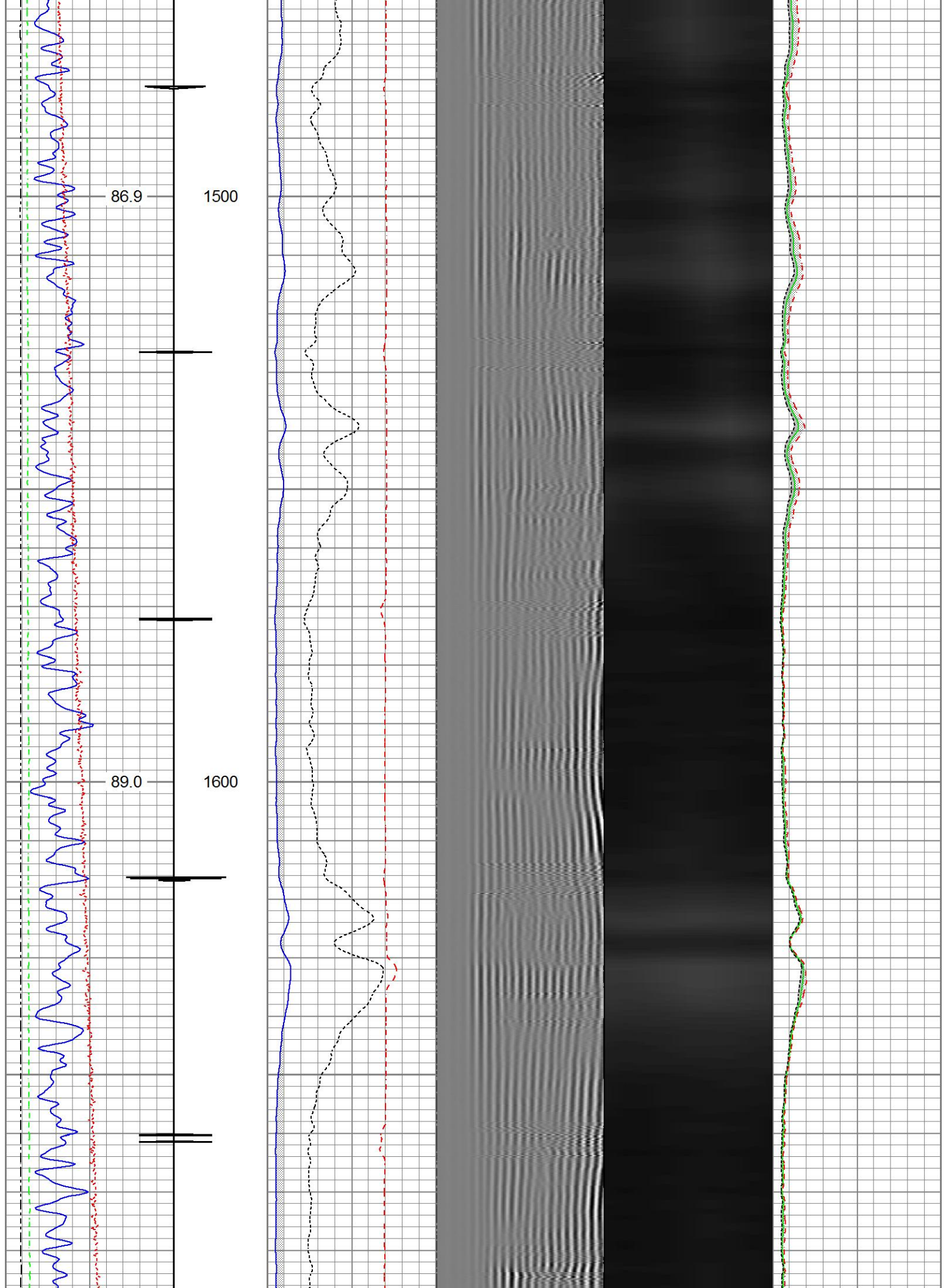


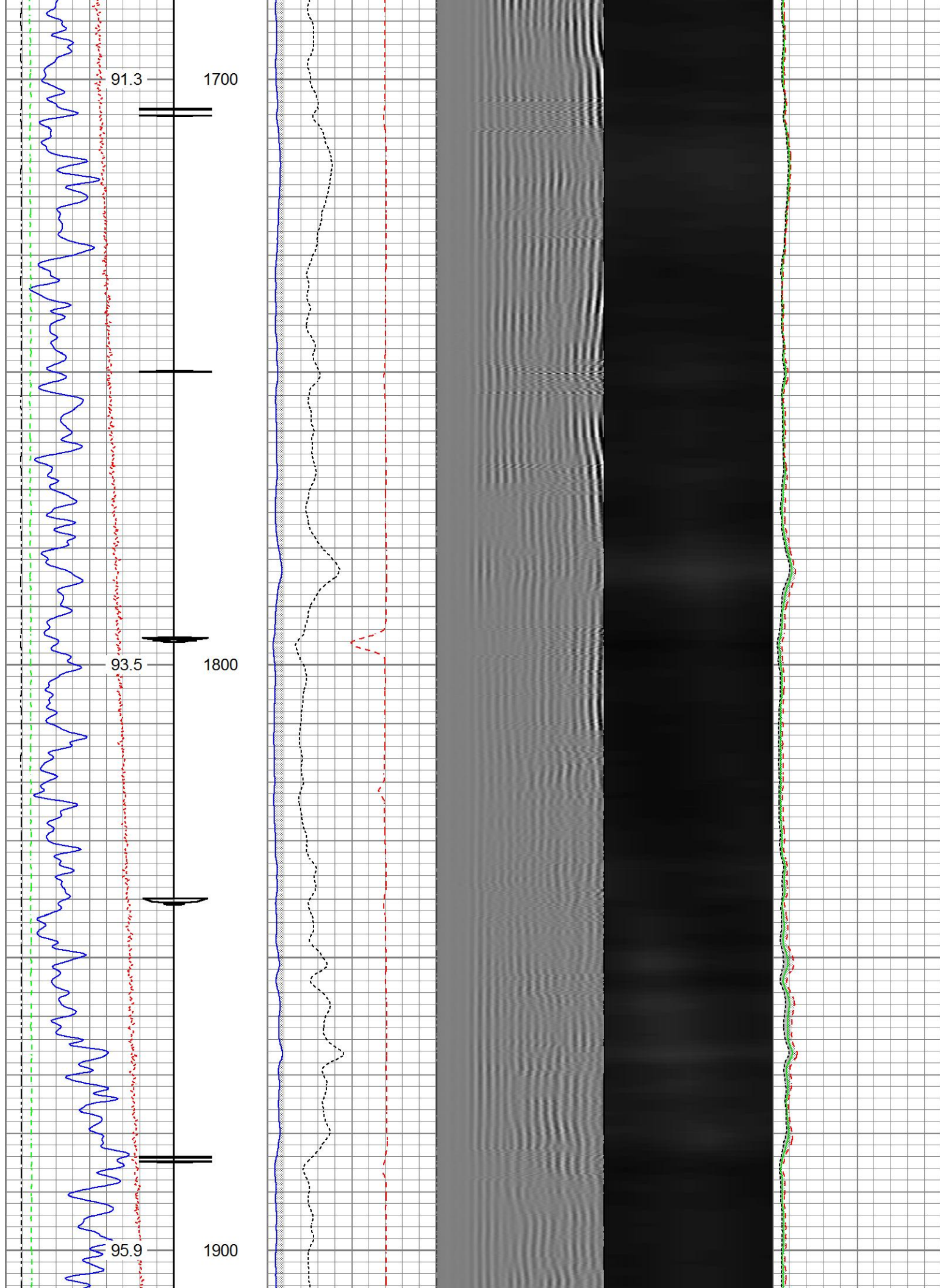


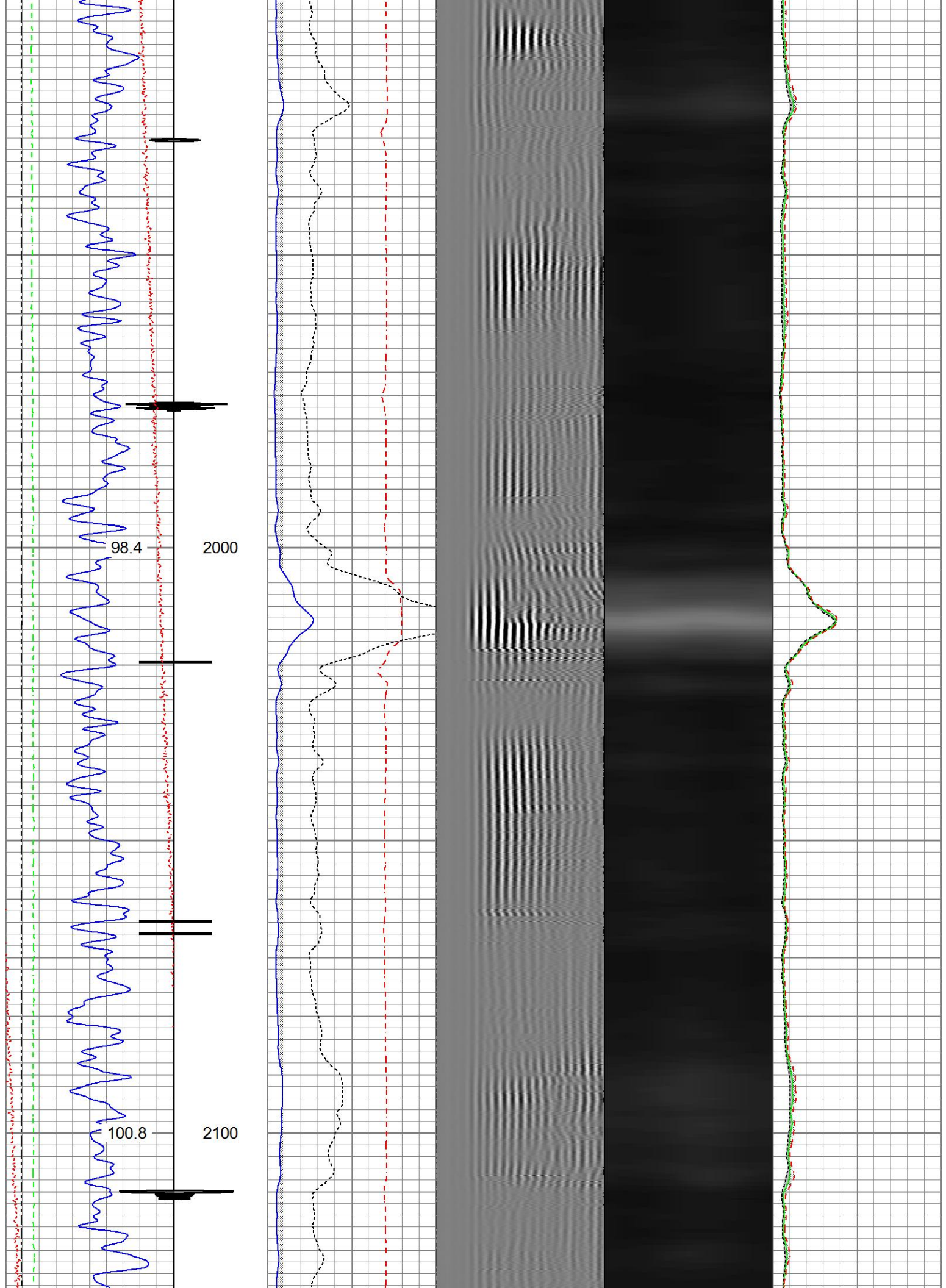


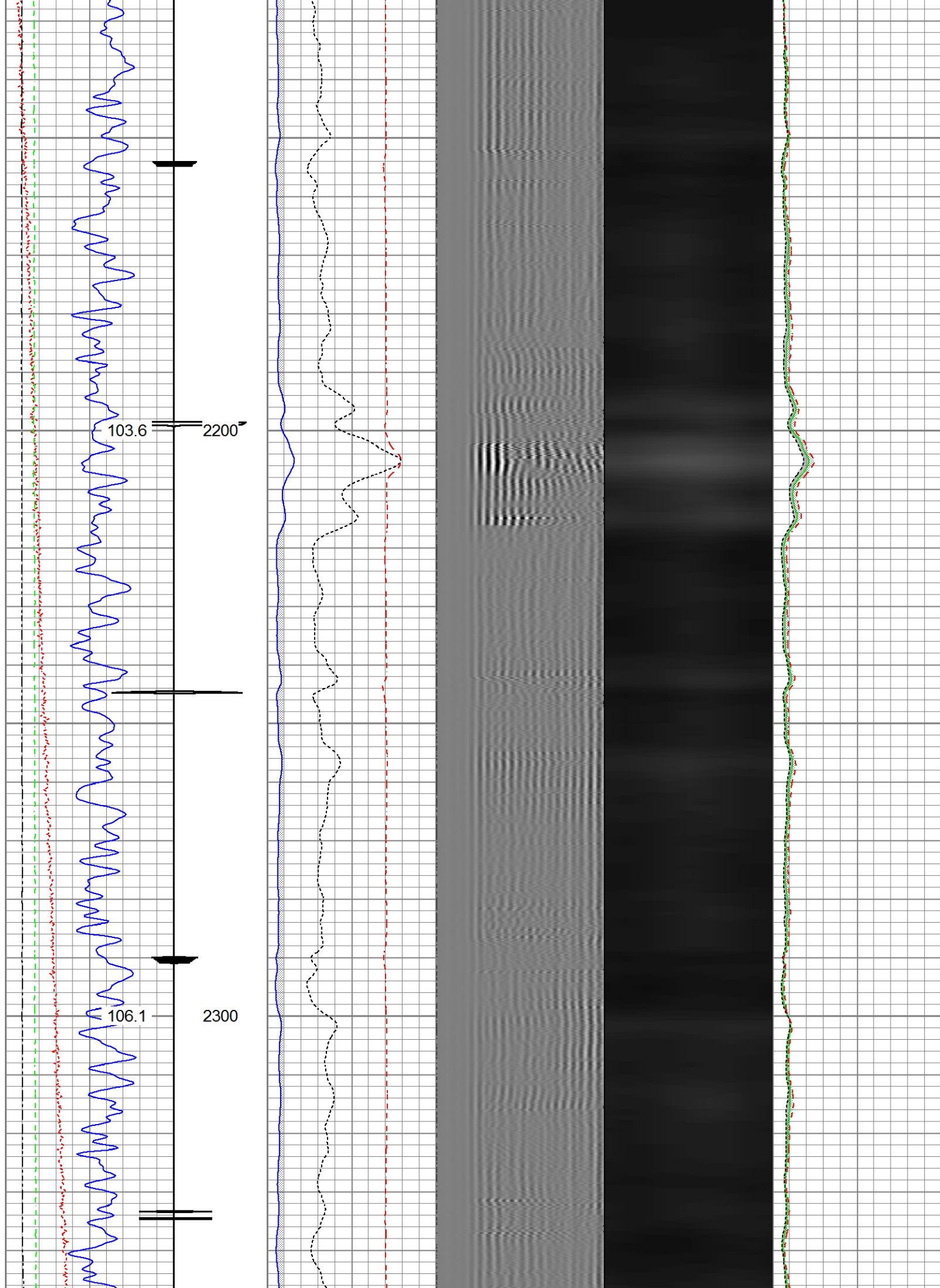


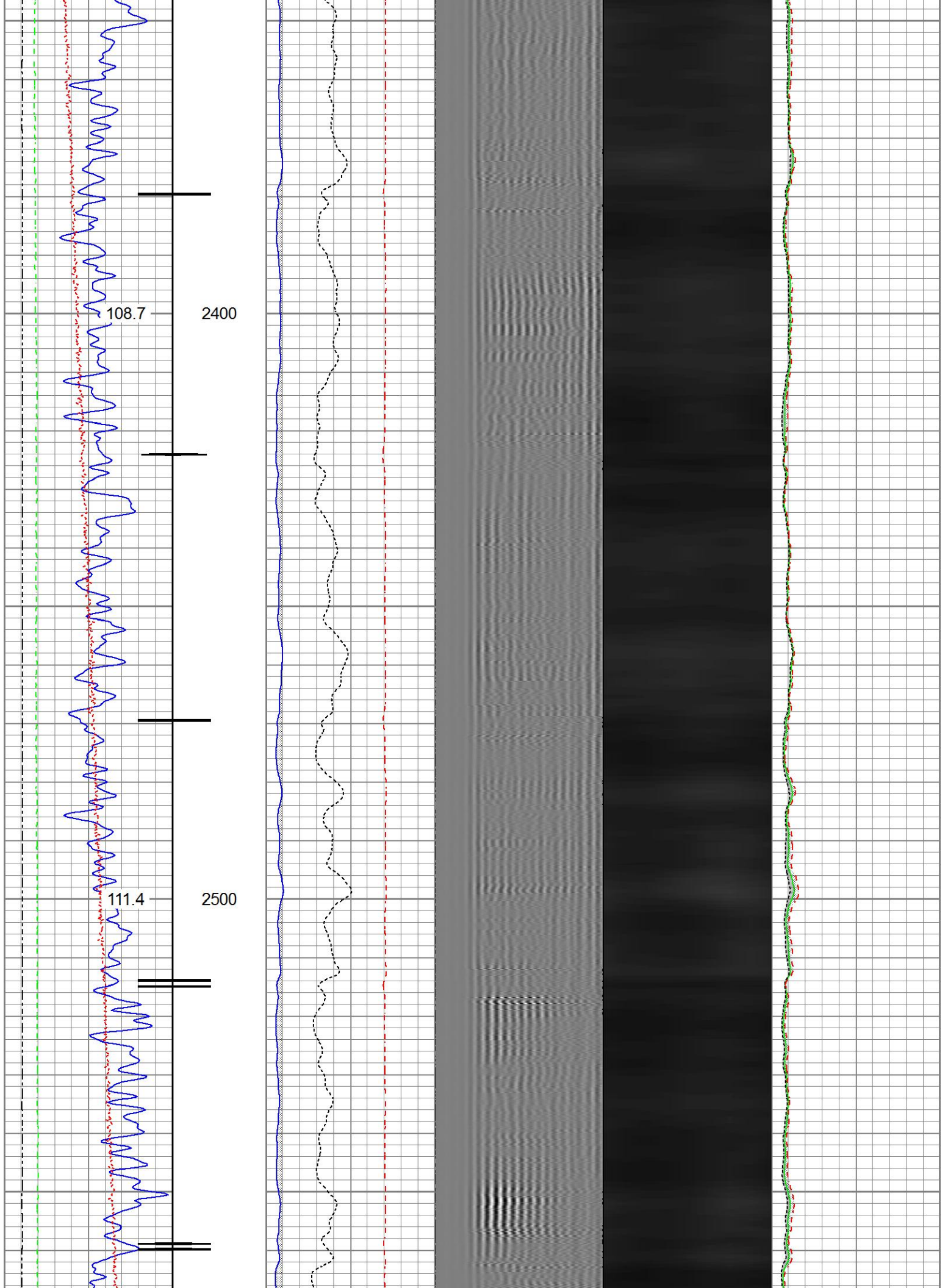


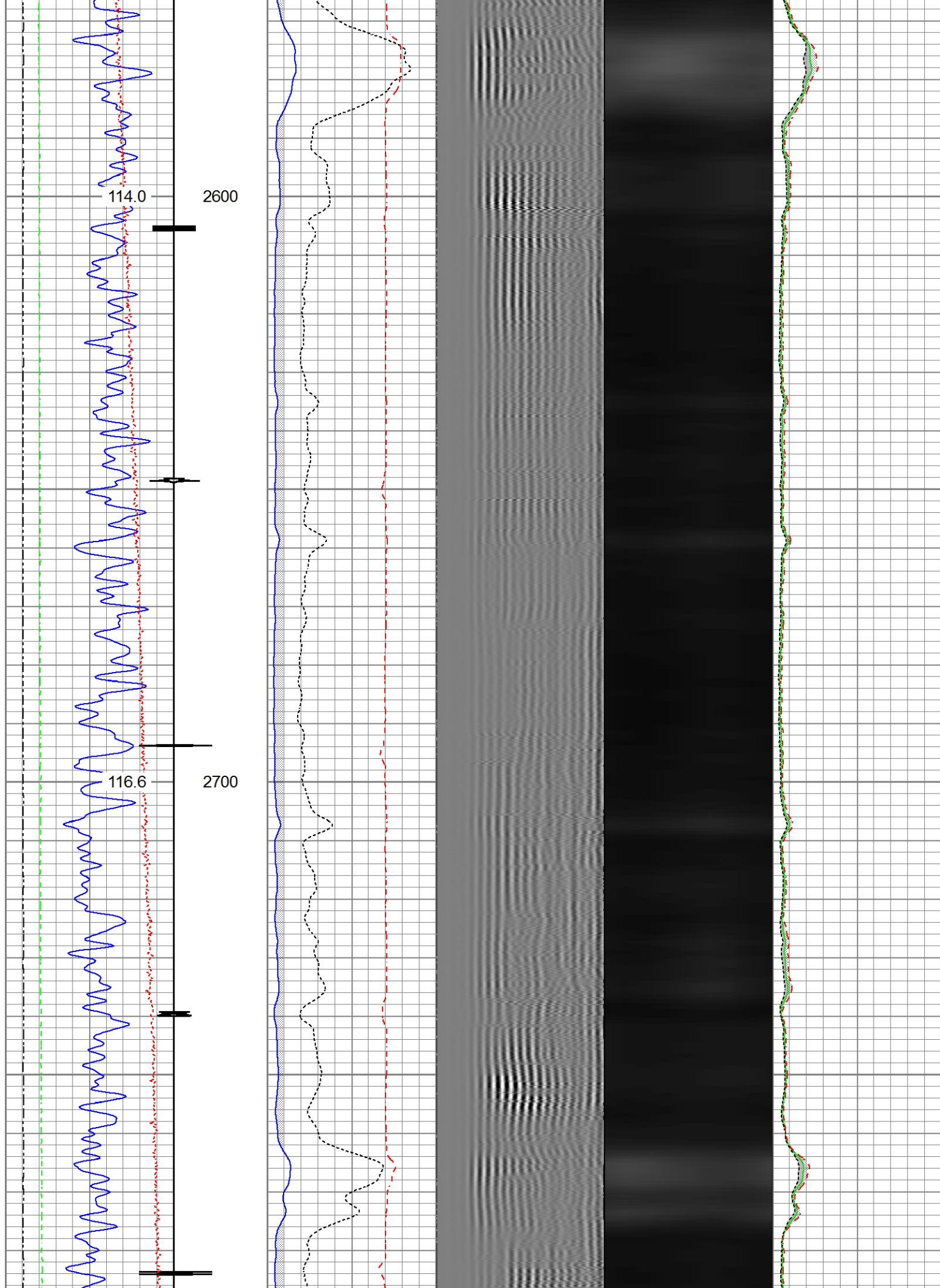


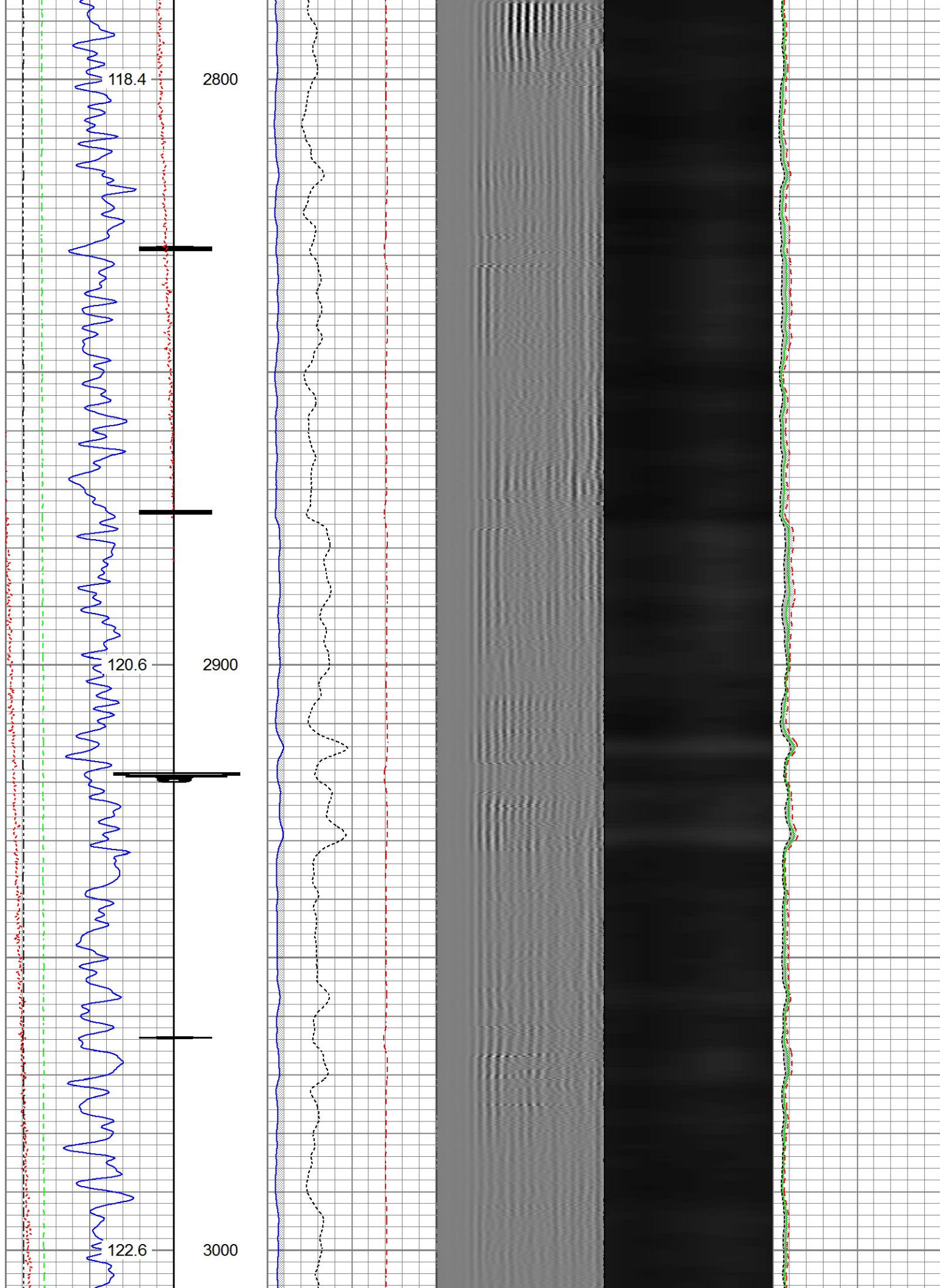


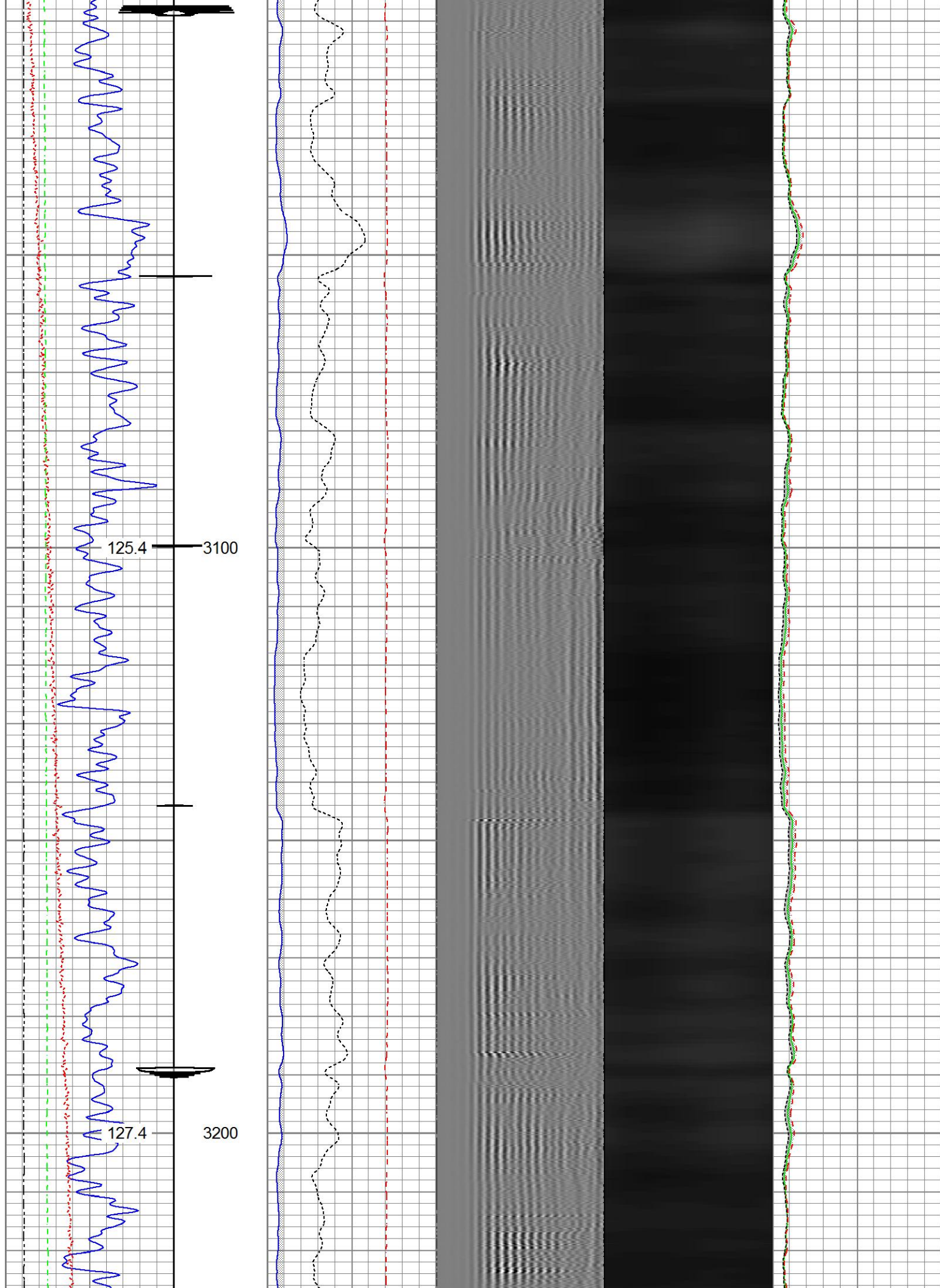


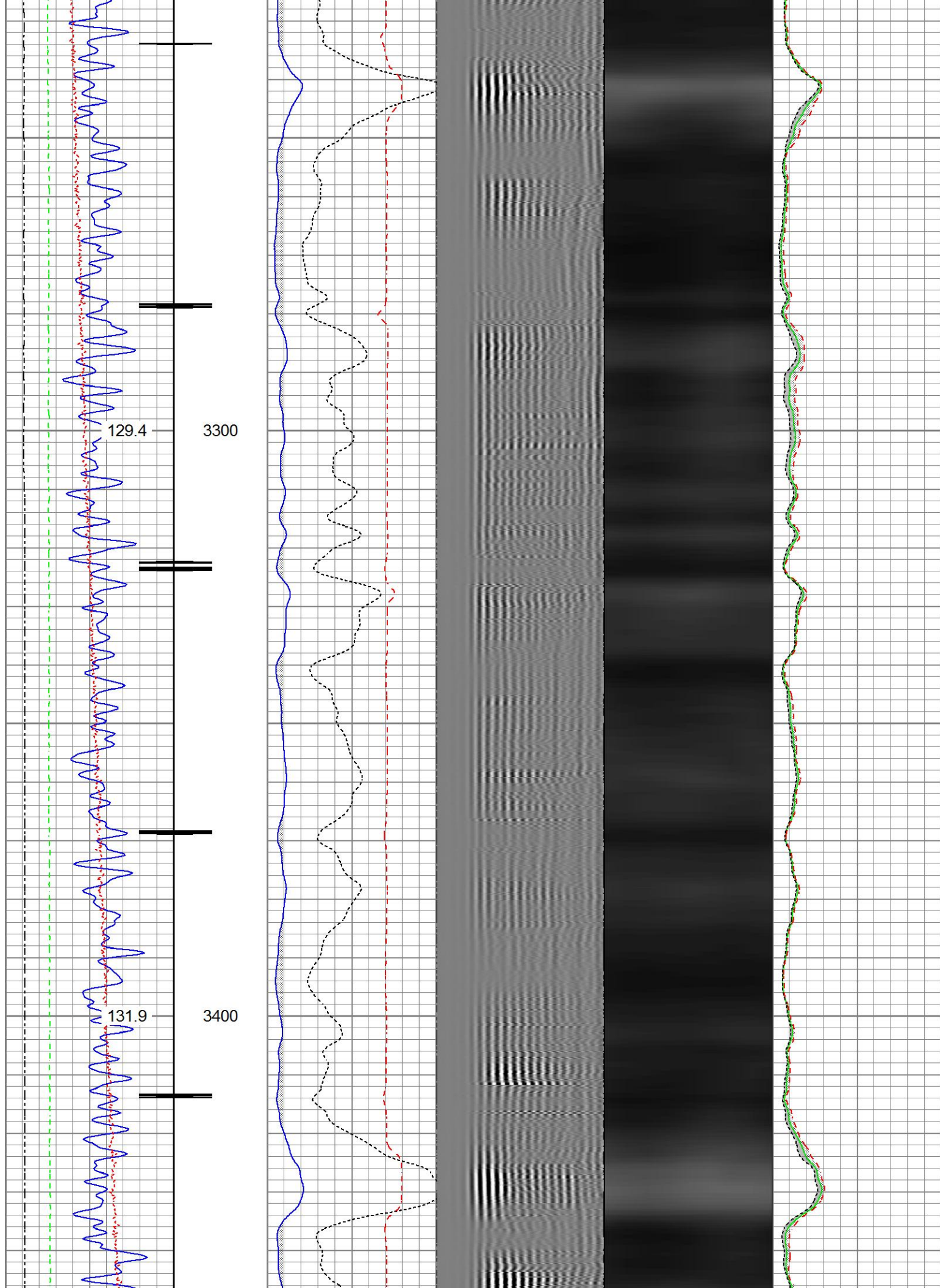


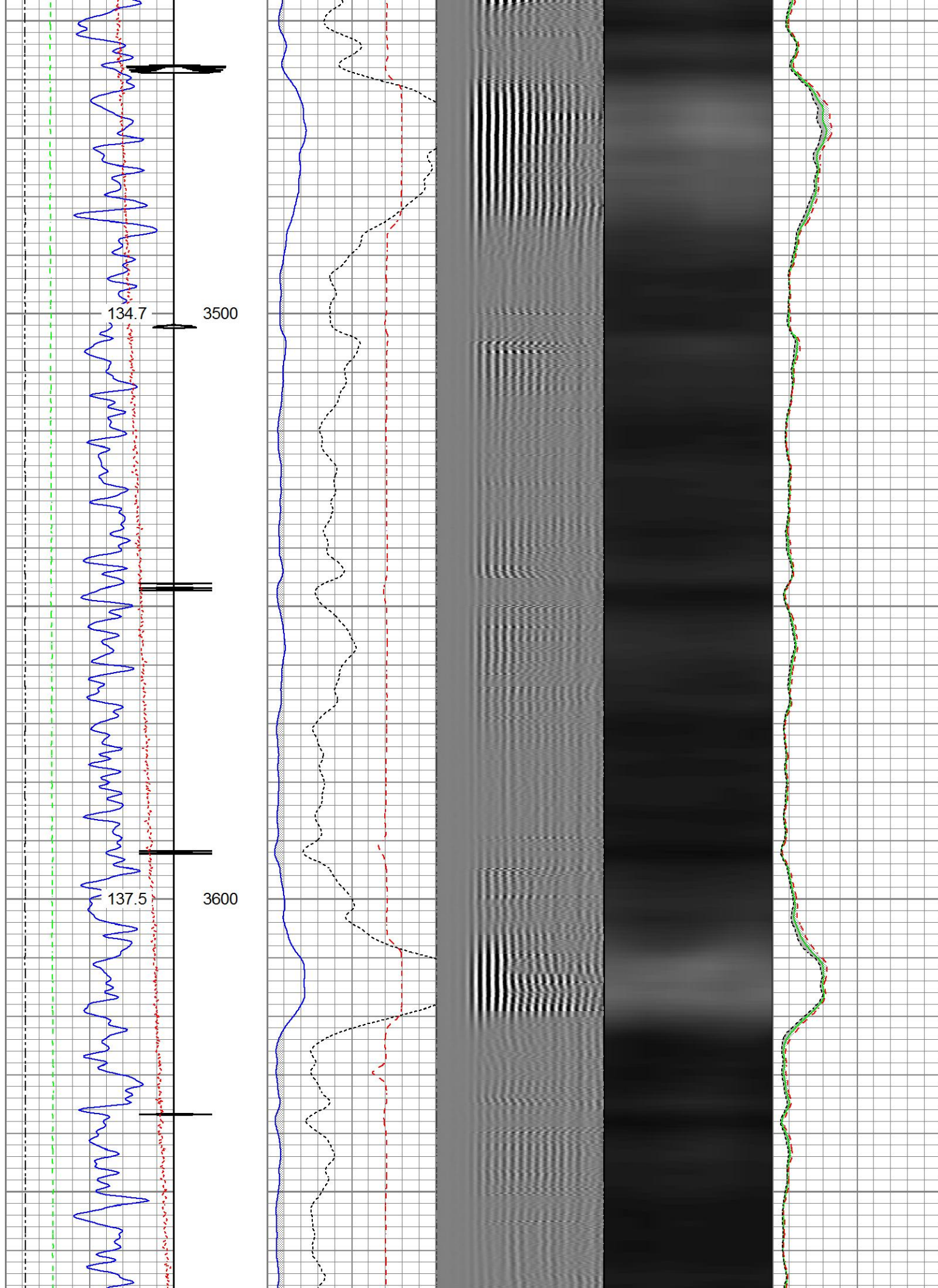


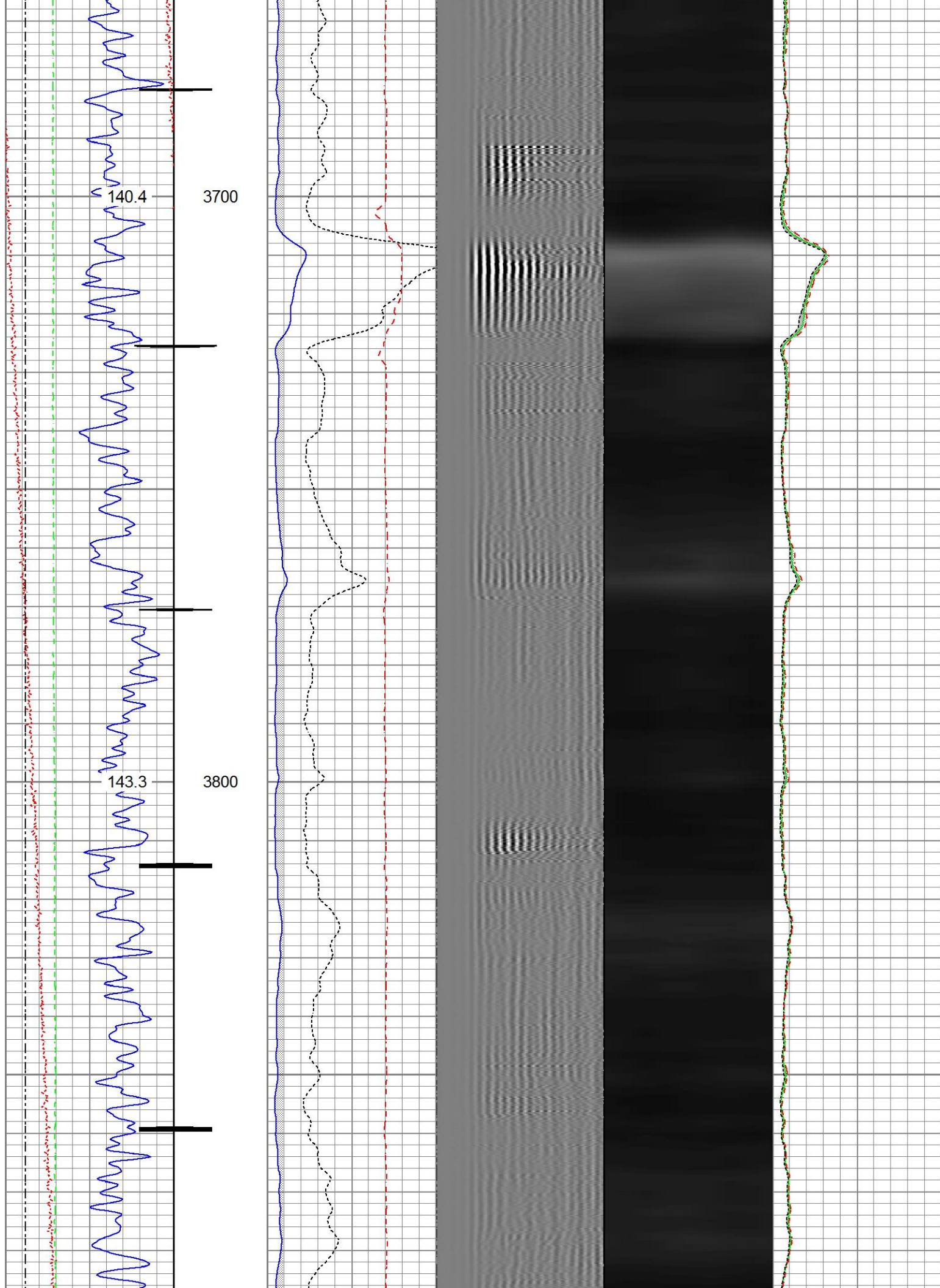


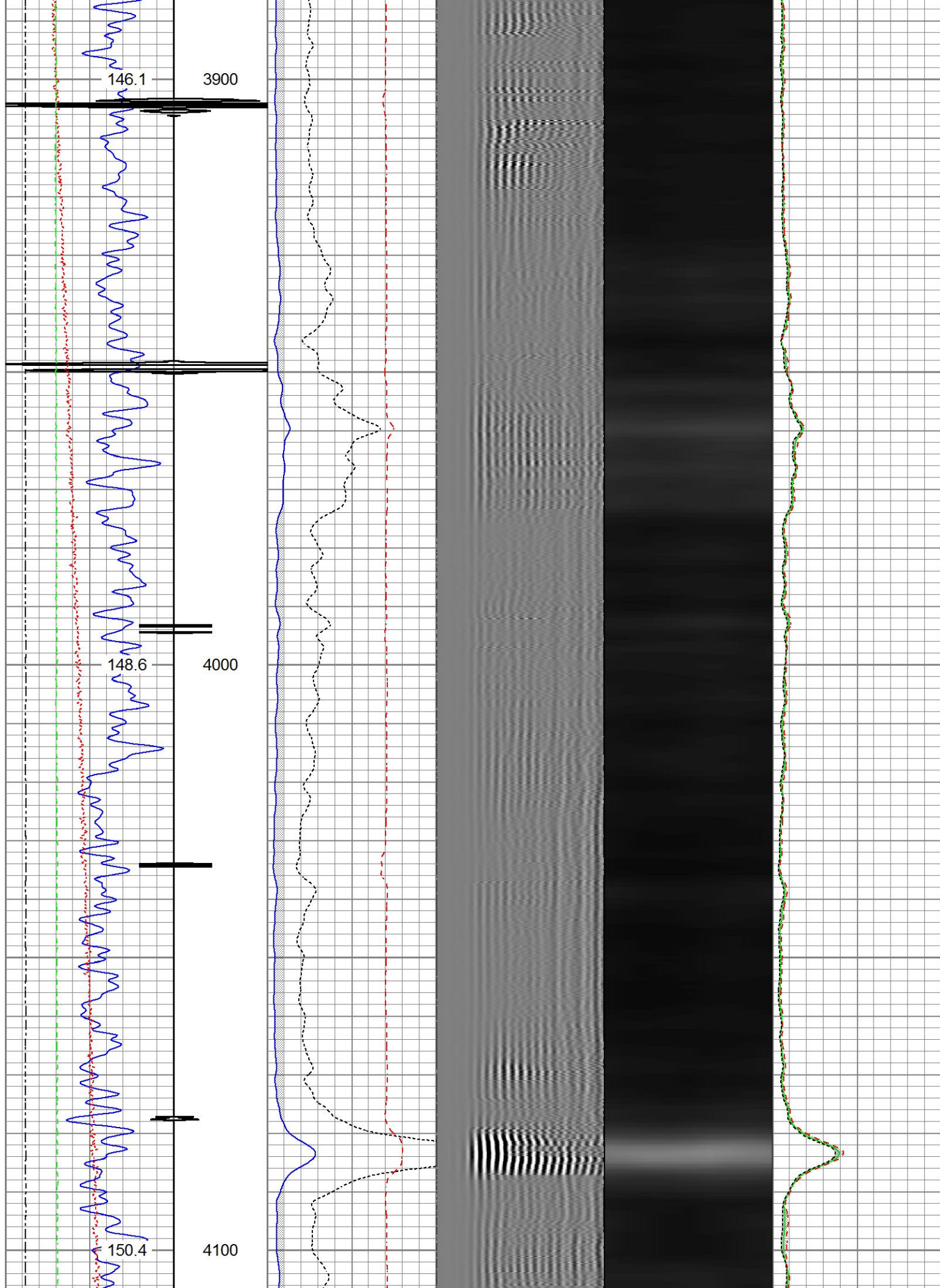


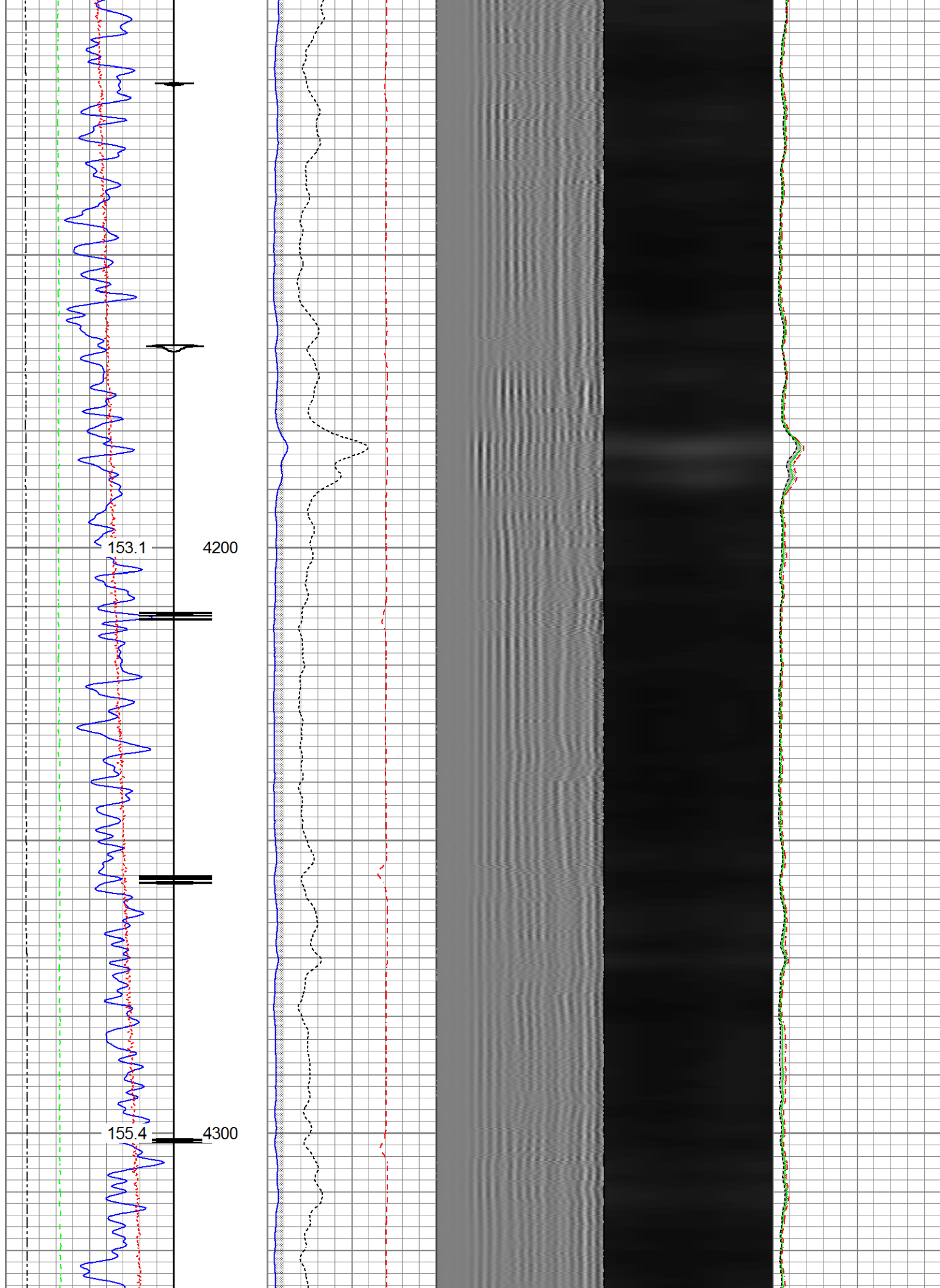


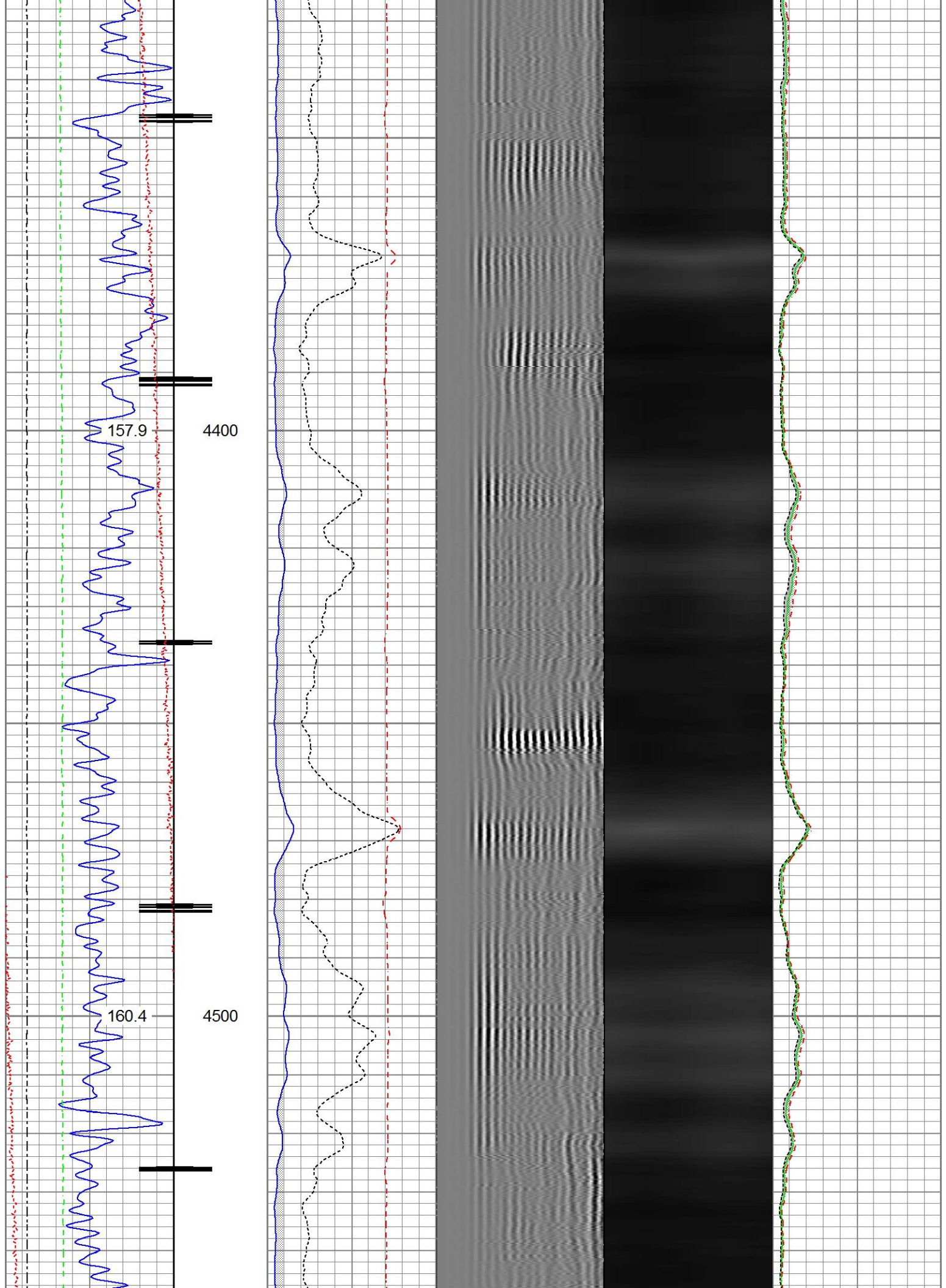


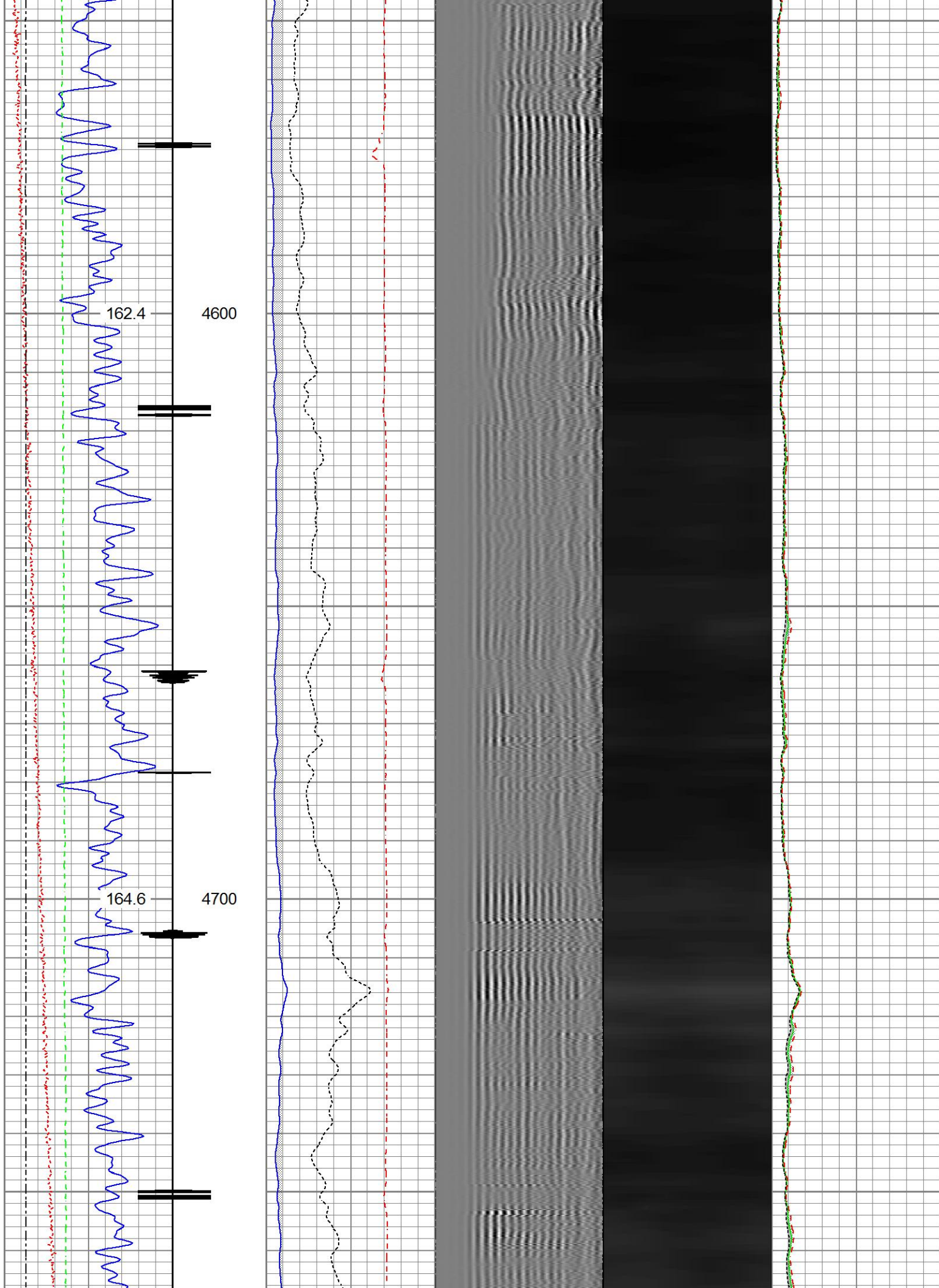


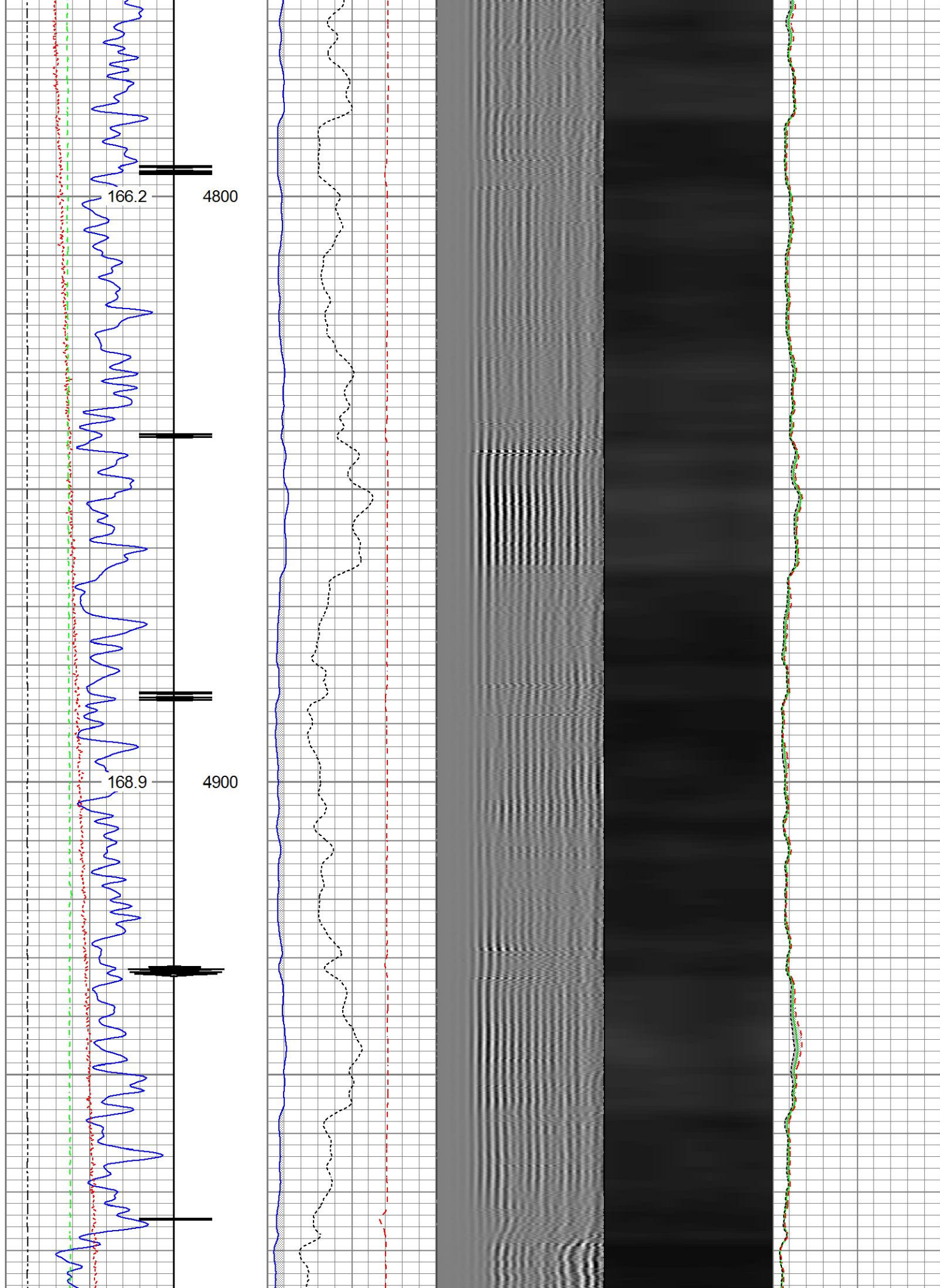


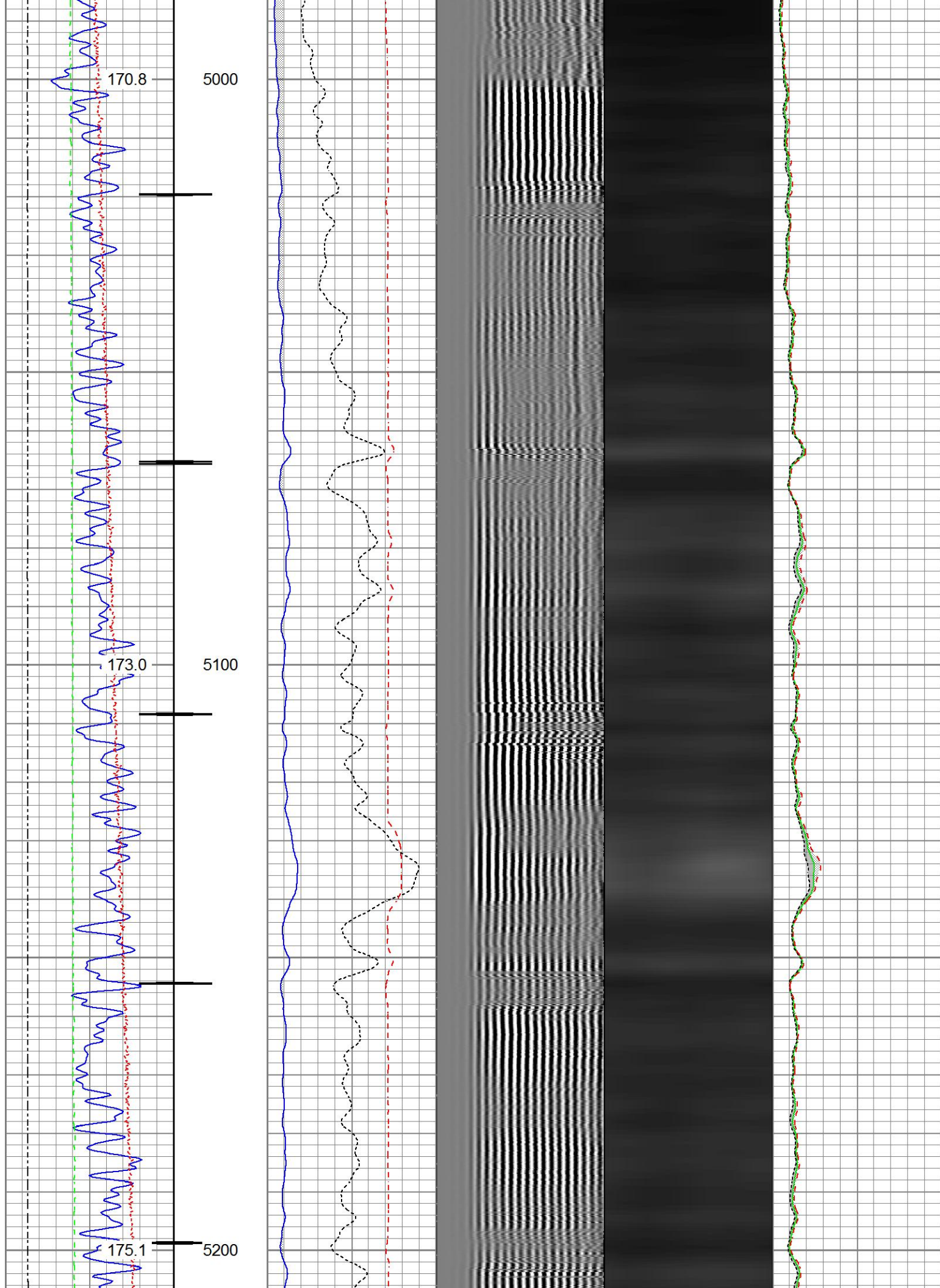


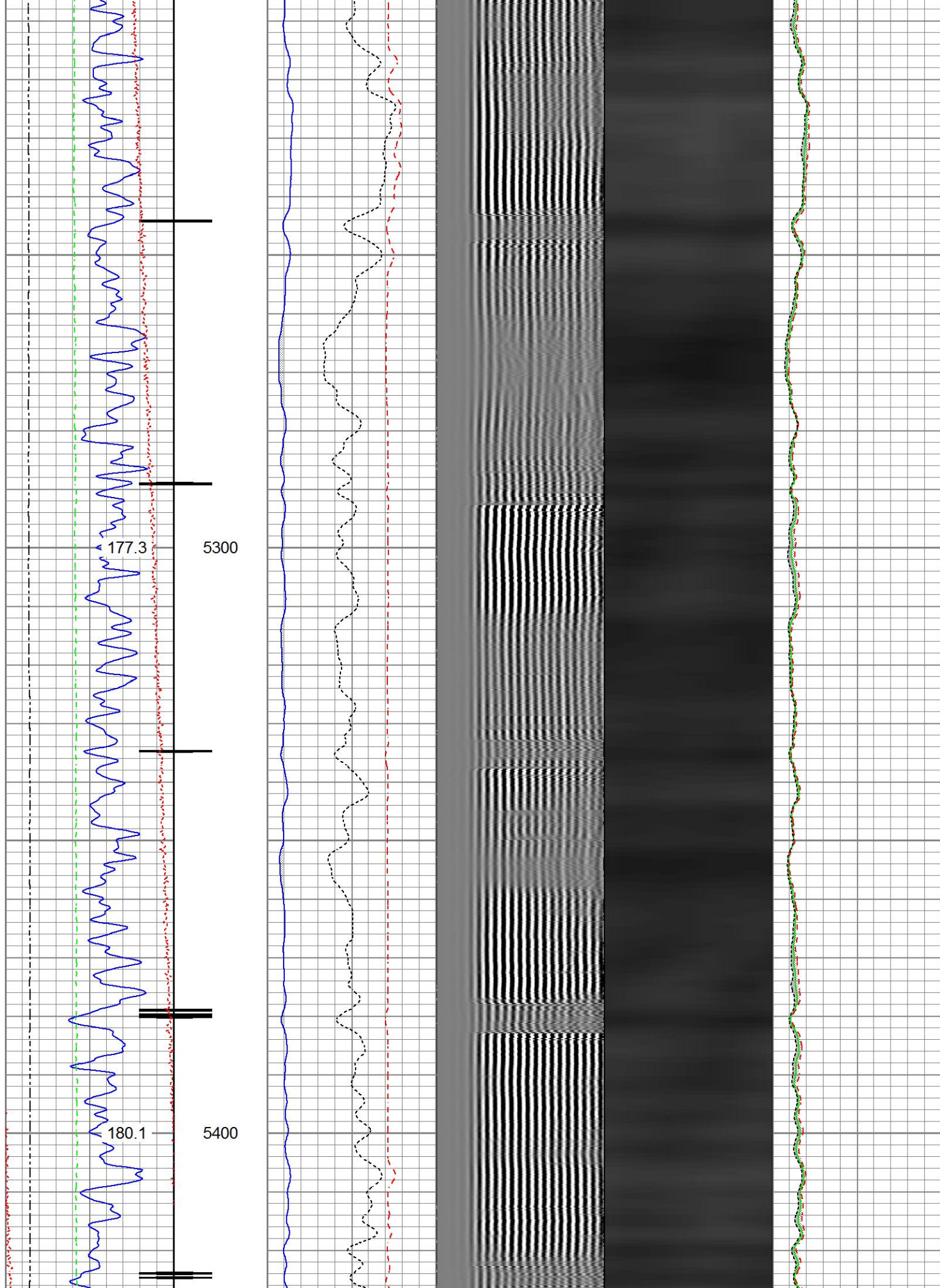


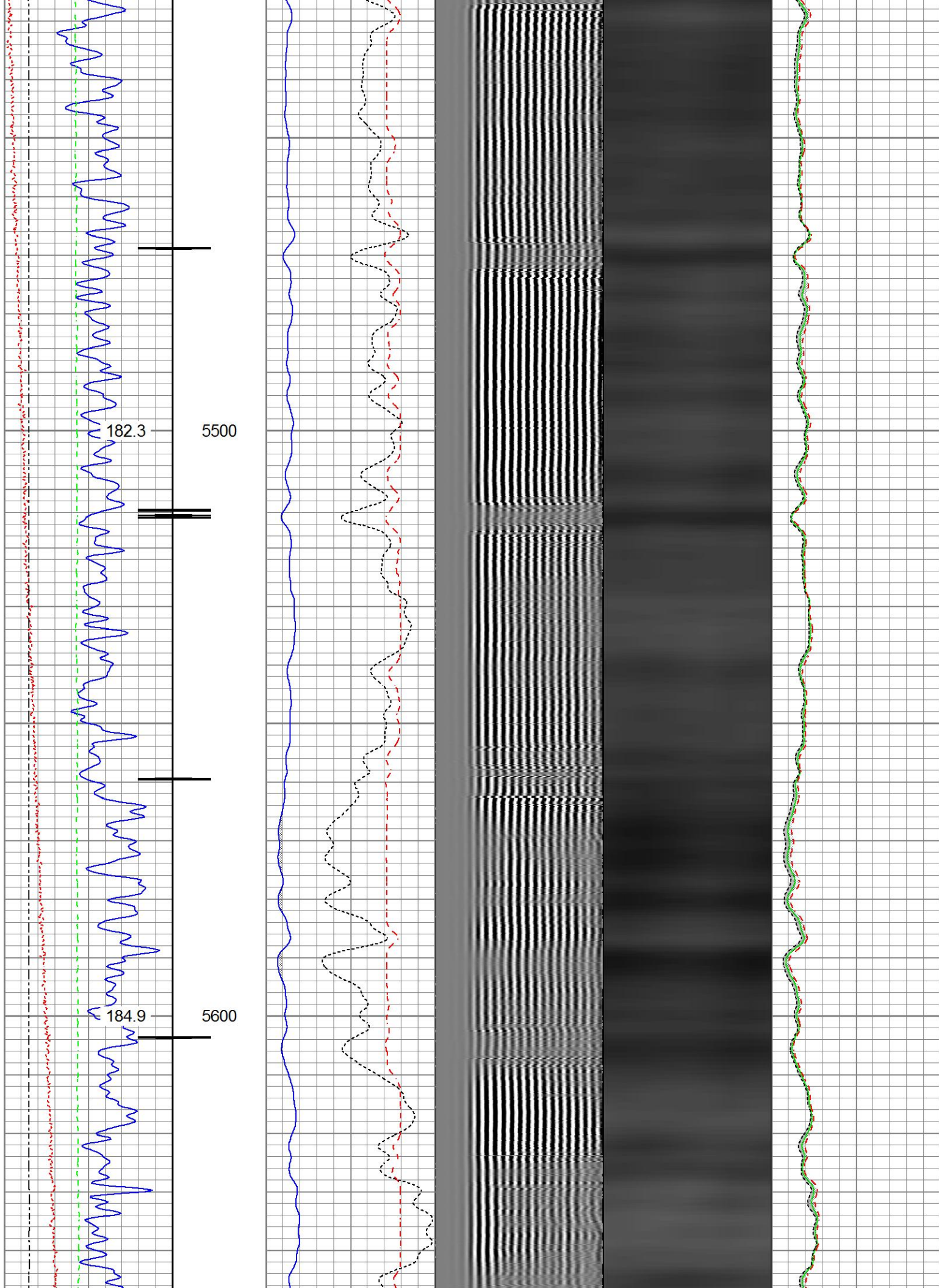


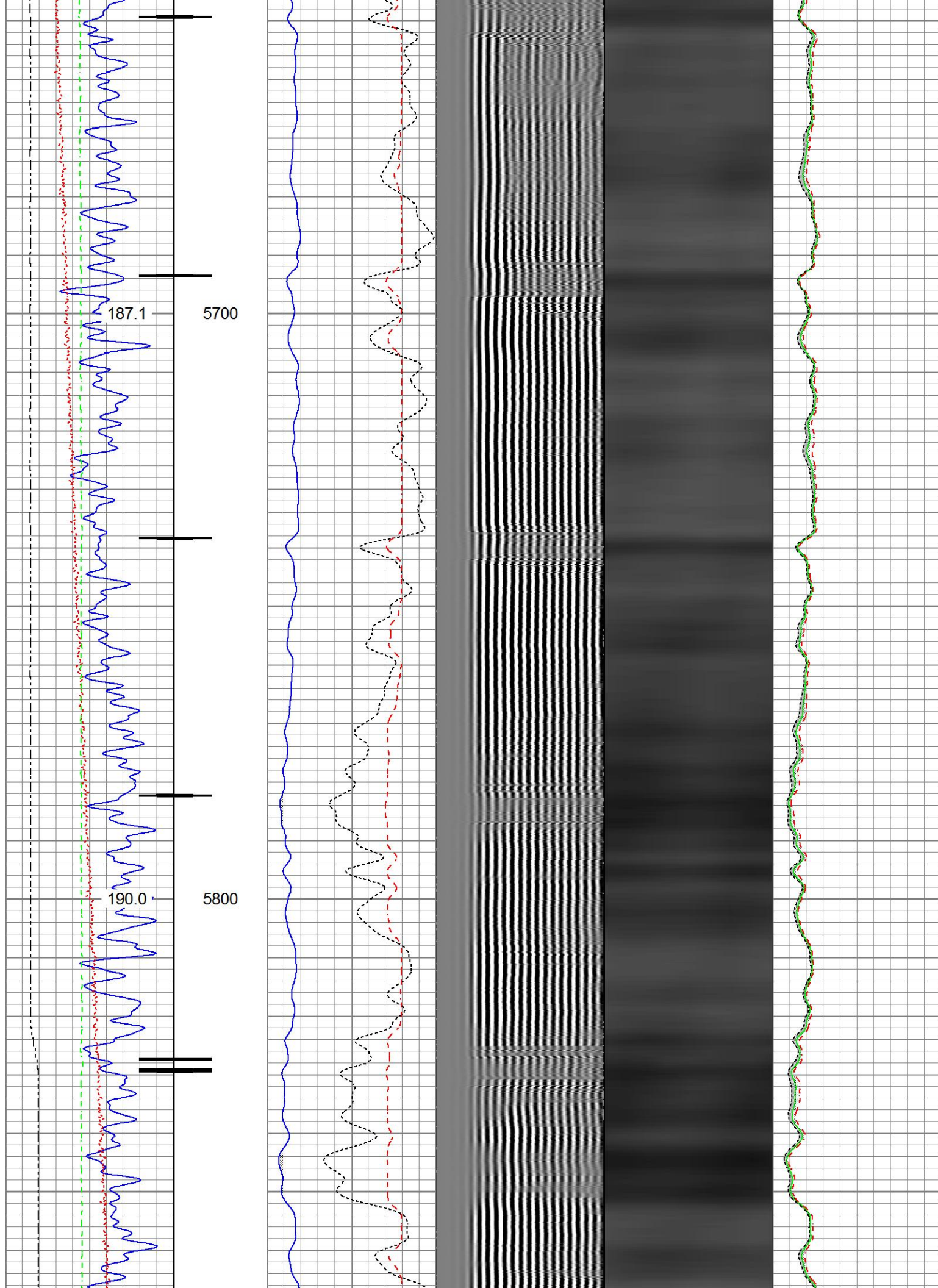


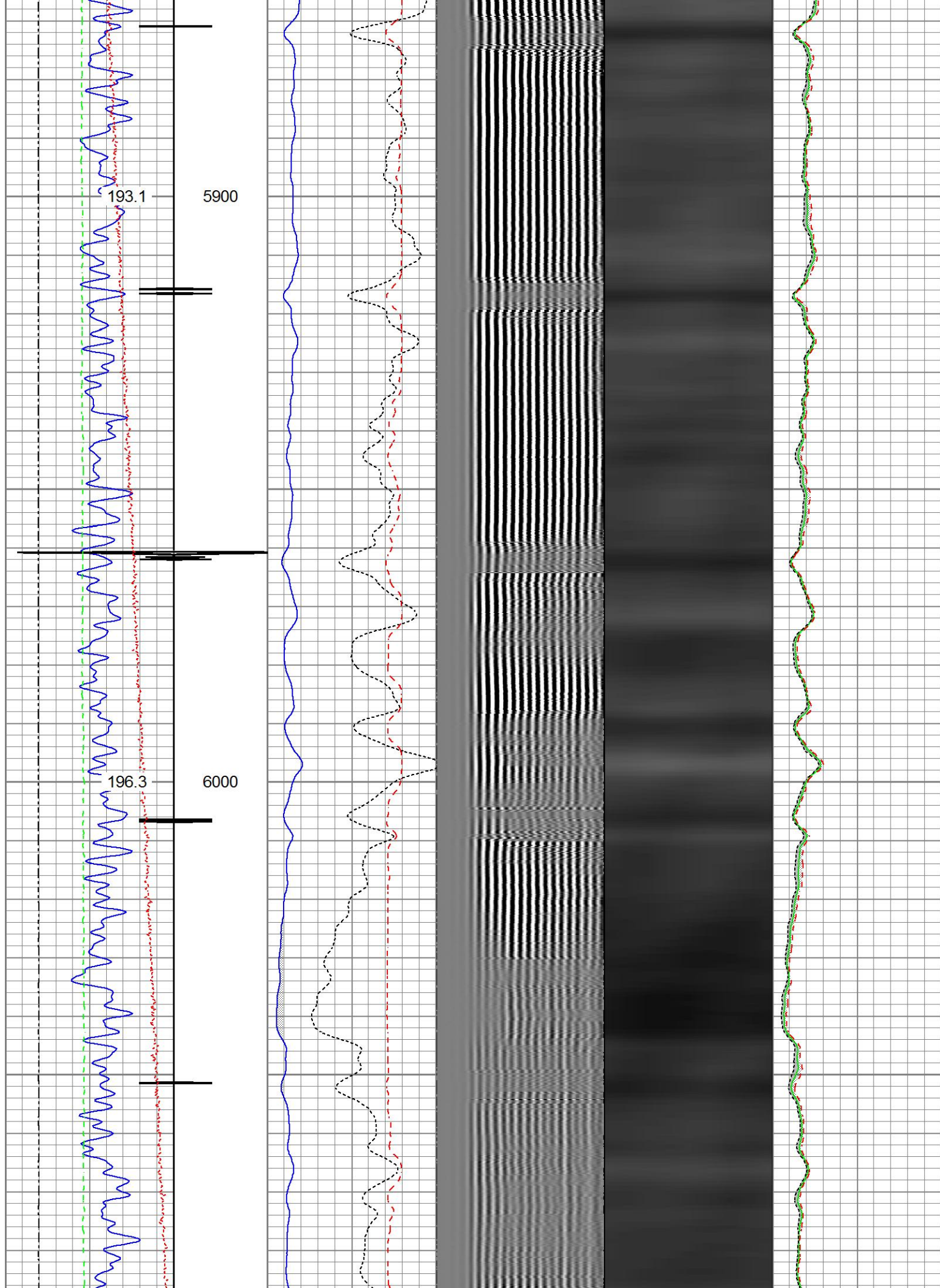


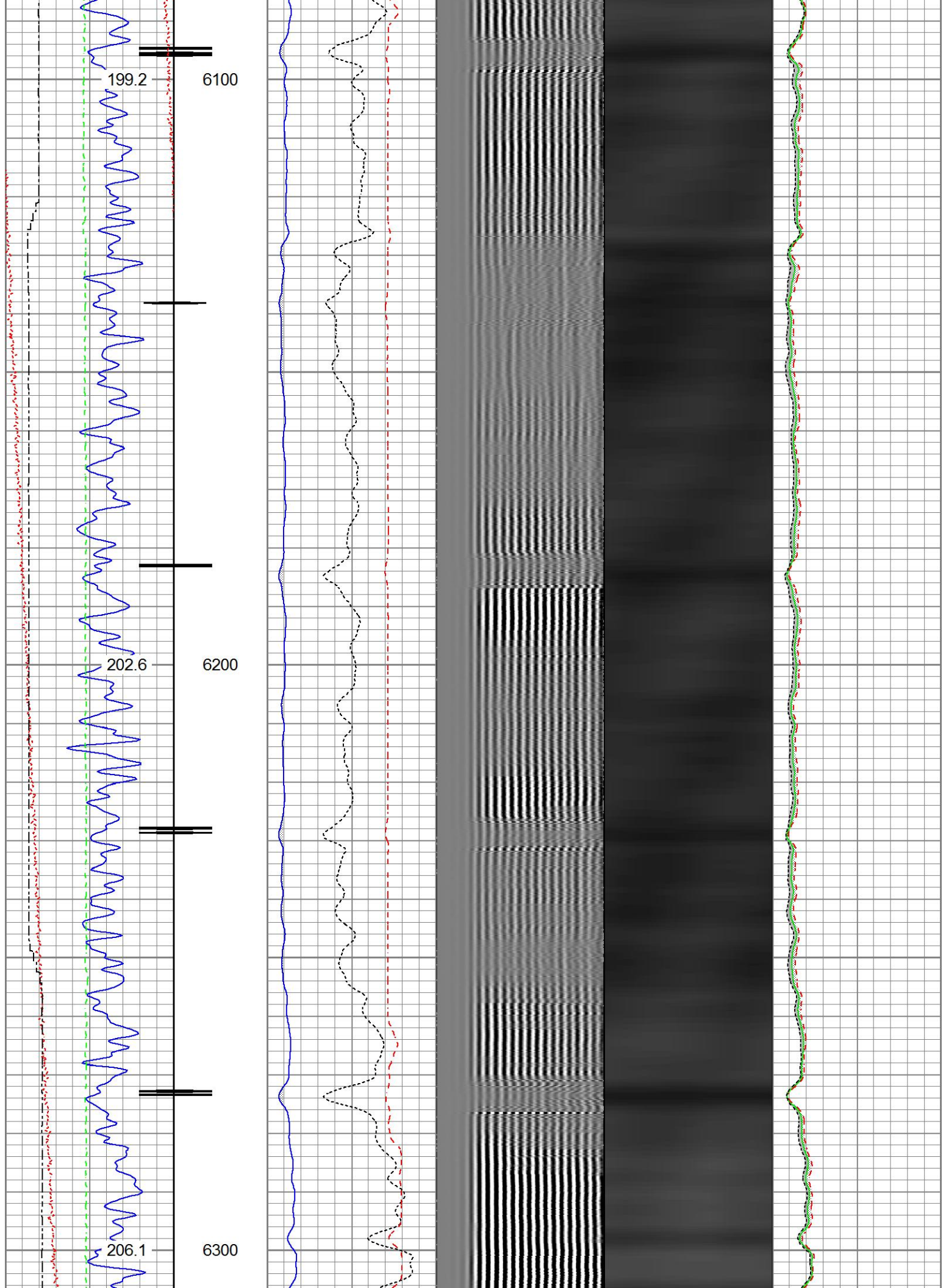


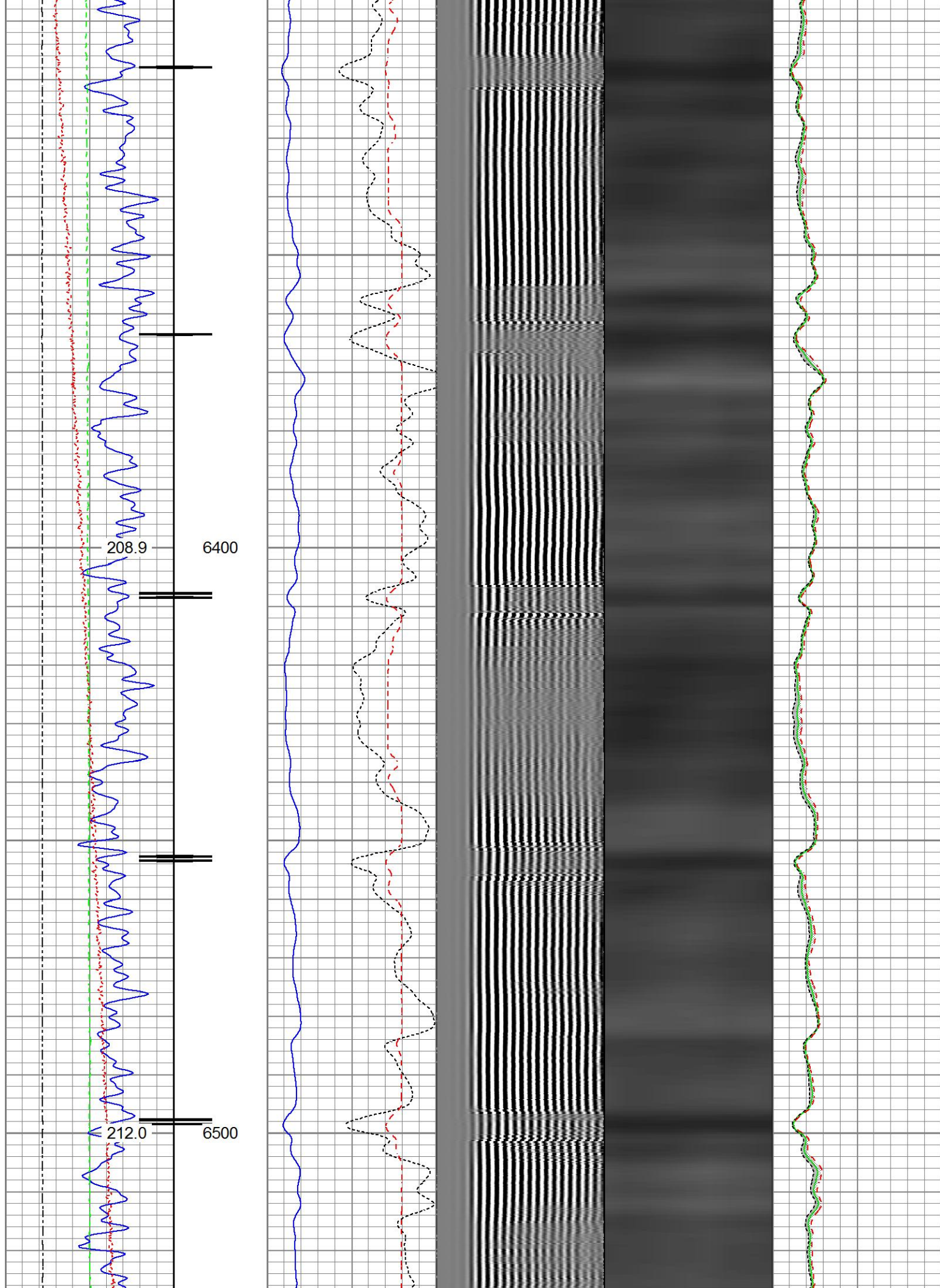


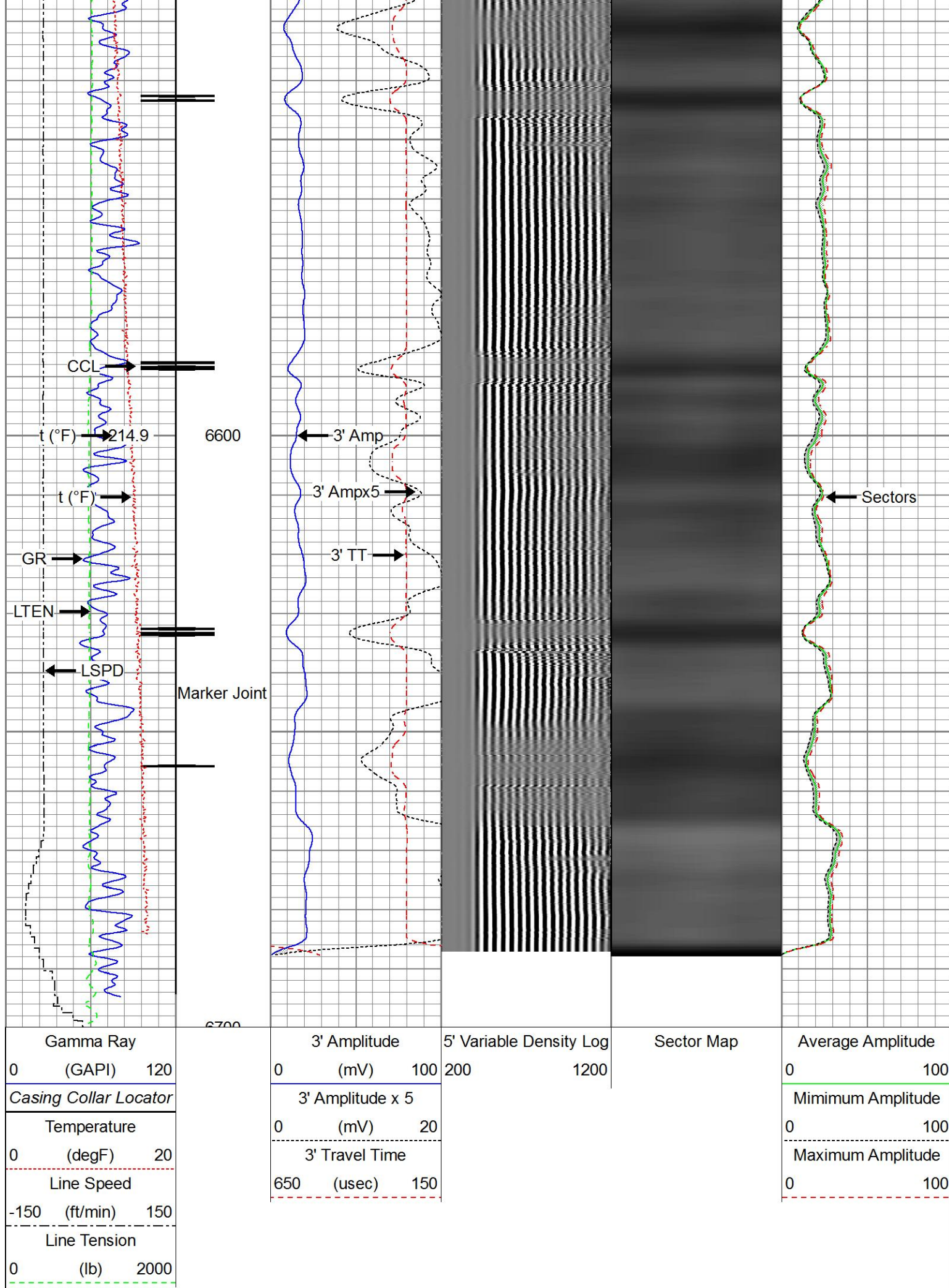












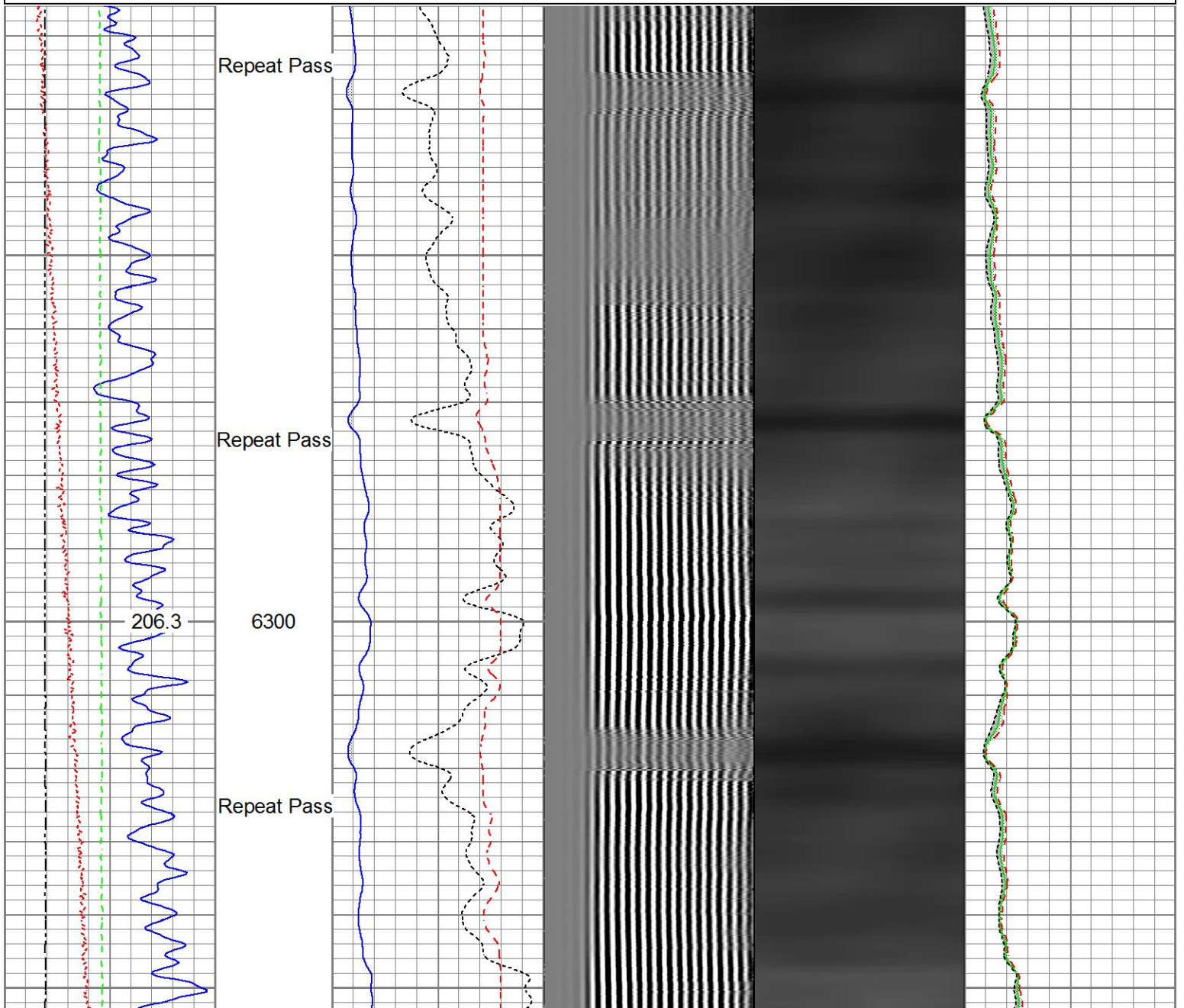


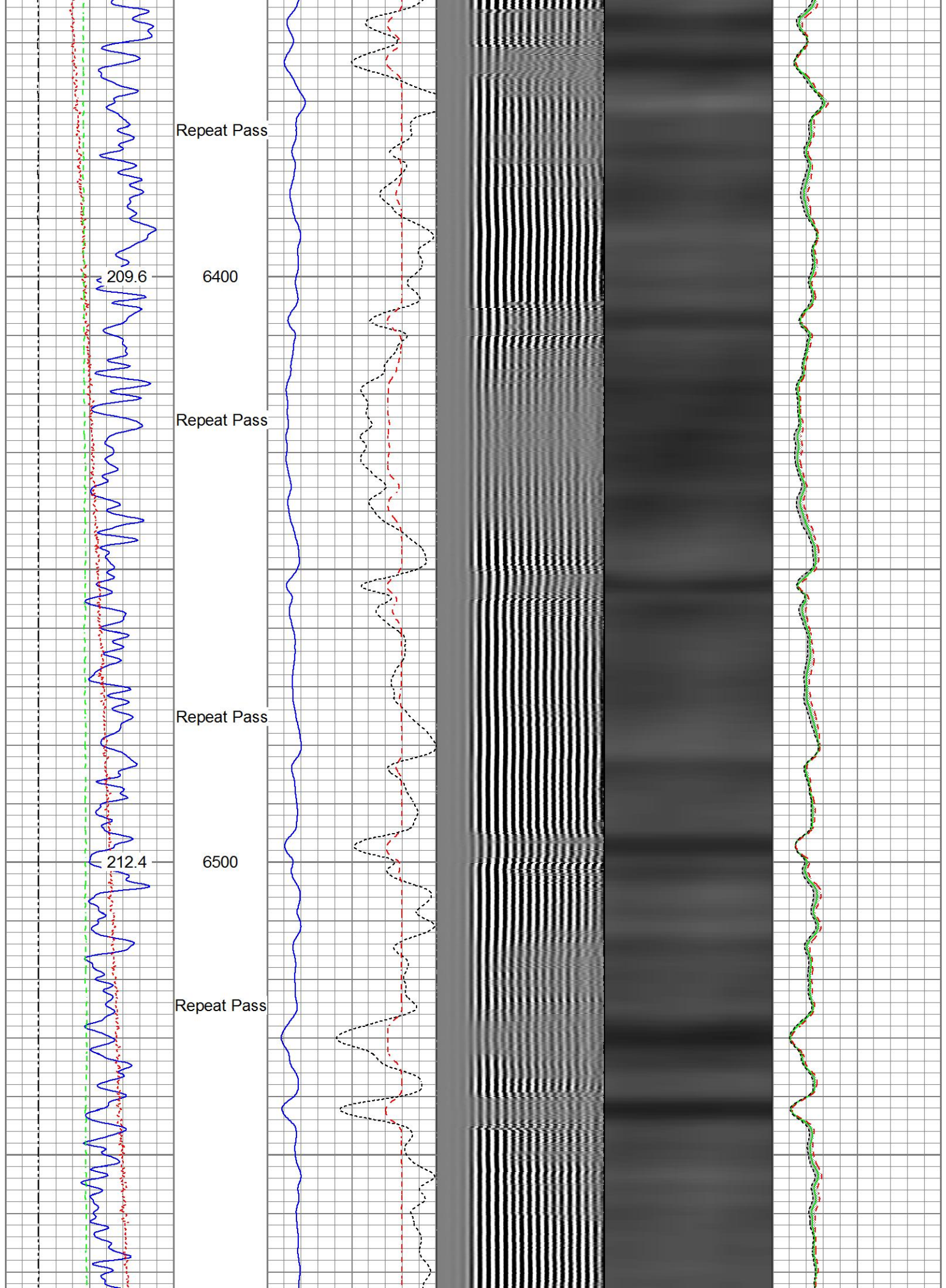
Repeat Section

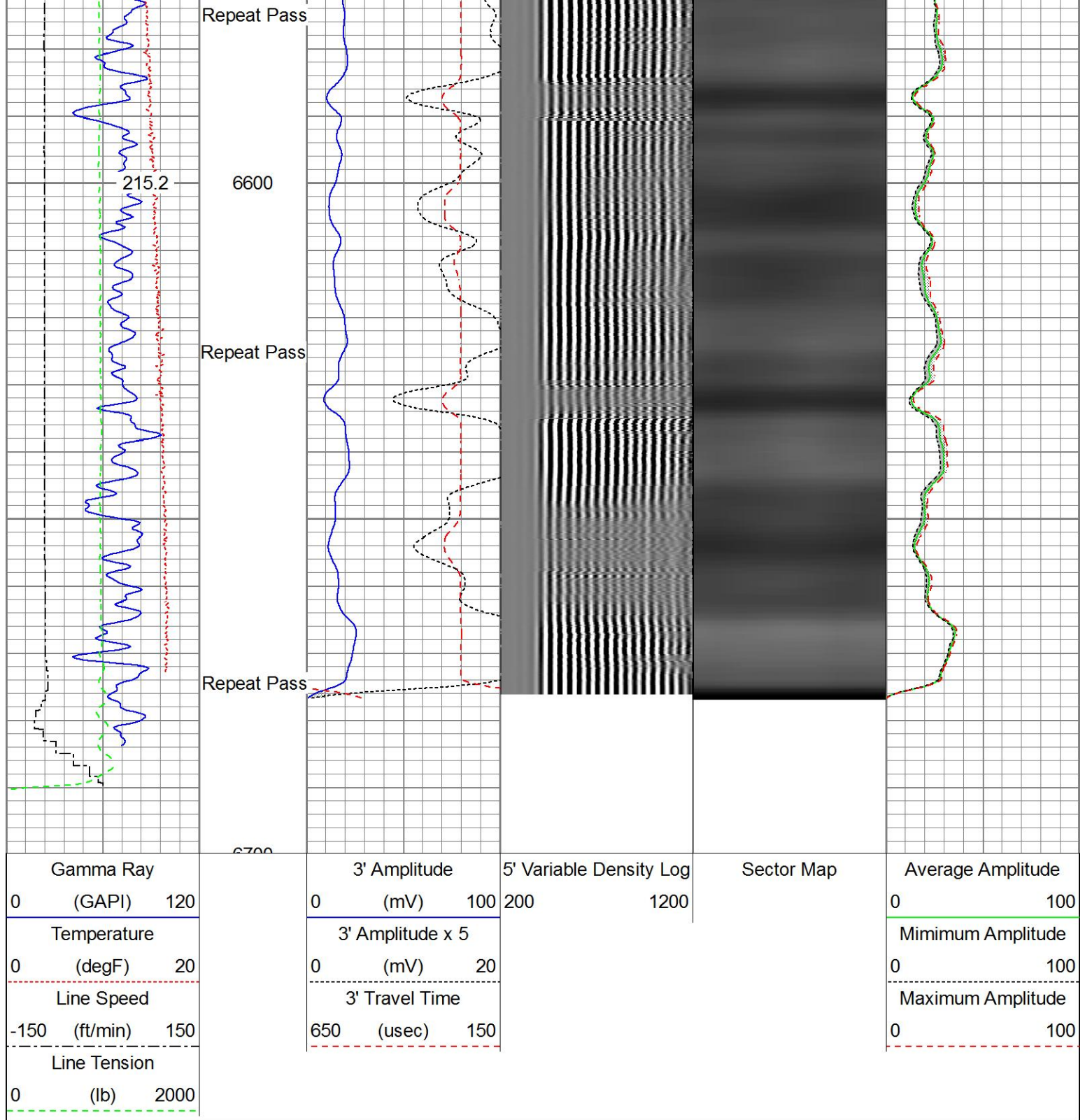
Recorded With 2800 PSI Surface Induced Pressure

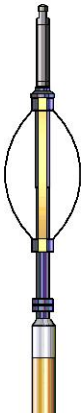
Database File anadarko_butterball 24c-34hz\051234320_anadarko_butterball 24c-34hz_rbl_07-07-17_w8.db
Dataset Pathname repeat1
Presentation Format ros_radii
Dataset Creation Fri Jul 07 13:54:40 2017
Charted by Depth in Feet scaled 1:240

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
Line Tension (lb)				
0 2000				







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 (FW1305-099.19)	2.75	105.00
WVFS7	14.55		Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe		
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	EE2.88,275	2.75
			Probe 2-3/4" Electric Inline Bowspring Centralizer		20.00
DCCL	6.51				
CCL	6.51				
			Probe_GR_CCL-P_CGR_2750_S (FW1304.543)	2.75	55.00
			Probe 2-3/4" Digital CCL / Gamma Ray Combined		
GR	3.77				
			Probe_ELine_BowSpring_Centralizer-P	EE2.88,275	2.75
			Probe 2-3/4" Electric Inline Bowspring Centralizer		20.00
Dataset: 051234320_Anadarko_Butterball 24C-34HZ_RBL_07-07-17_w8.db: field/well/run1/main1 Total length: 23.40 ft Total weight: 225.40 lb O.D.: 2.75 in					

Calibration Report		
Database File	D:\Warrior\Data\Anadarko_Butterball 24C-34HZ\051234320_Anadarko_Butterball 24C-34HZ_RBL_07-07-17	
Dataset Pathname	main1	
Dataset Creation	Fri Jul 07 14:02:56 2017	
Gamma Ray Calibration Report		
Serial Number:	FW1307-038	
Tool Model:	P_CGR_2750_S	
Performed:	Sat Feb 06 11:43:09 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:	20.000	ft

Master Calibration, performed Fri Jul 07 11:33:01 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.696	0.800	71.921	103.421	-0.037
CAL	0.762	0.764				
5'	0.010	0.675	0.800	71.921	107.061	-0.307
SUM						
S1	0.006	0.689	0.000	100.000	146.416	-0.910
S2	0.009	0.691	0.000	100.000	146.521	-1.270
S3	0.009	0.687	0.000	100.000	147.431	-1.254
S4	0.008	0.684	0.000	100.000	147.913	-1.193
S5	0.009	0.688	0.000	100.000	147.211	-1.283
S6	0.009	0.693	0.000	100.000	146.069	-1.243
S7	0.008	0.697	0.000	100.000	145.102	-1.169
S8	0.008	0.700	0.000	100.000	144.401	-1.088

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.762	0.764	1.000	0.000

Air Zero Calibration, performed Fri Jul 07 11:32:38 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	Butterball 24C-34HZ
Field	Wattenberg
County	Weld

County
State

vveid
Colorado