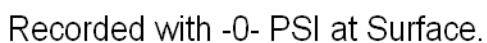


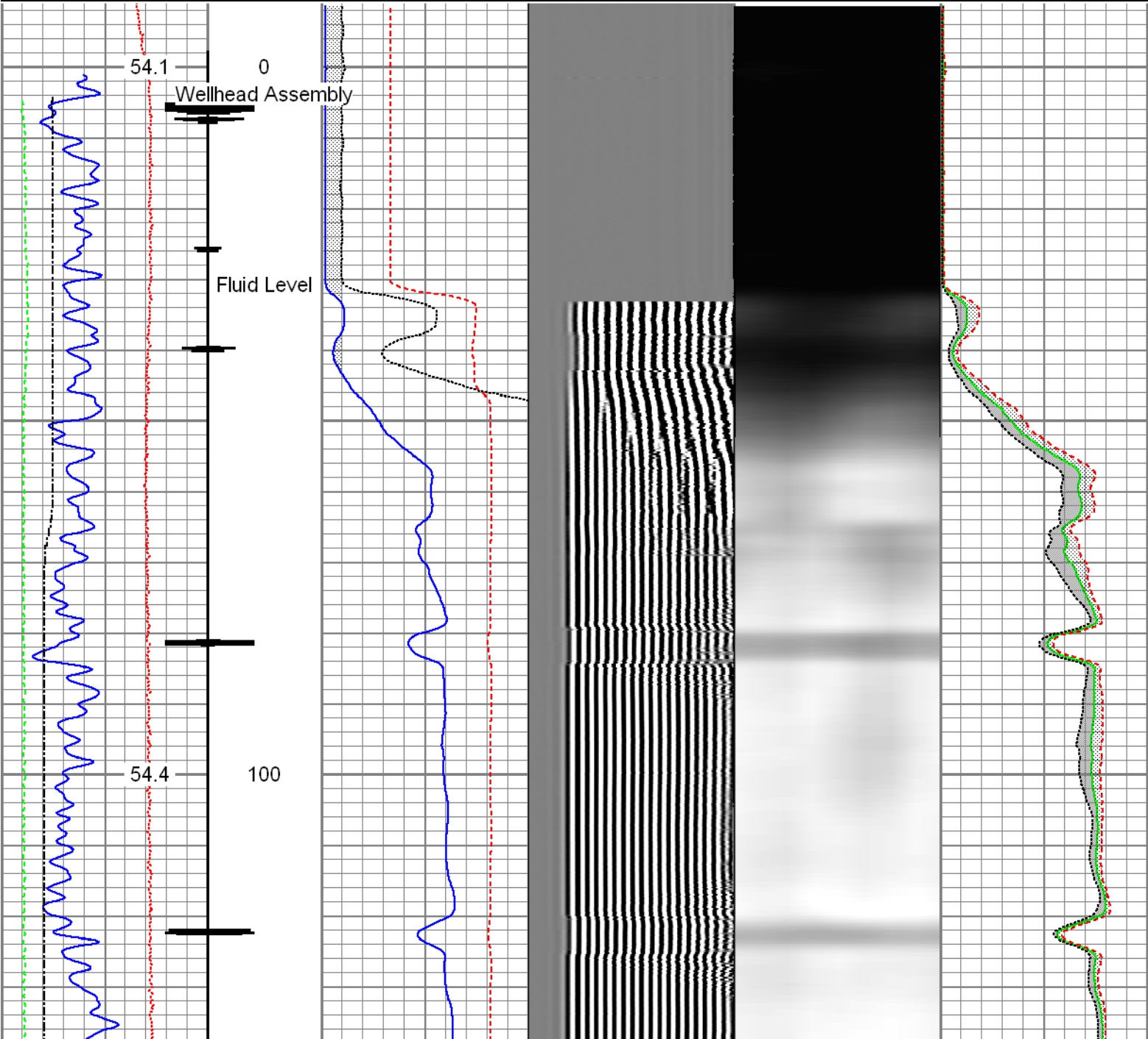


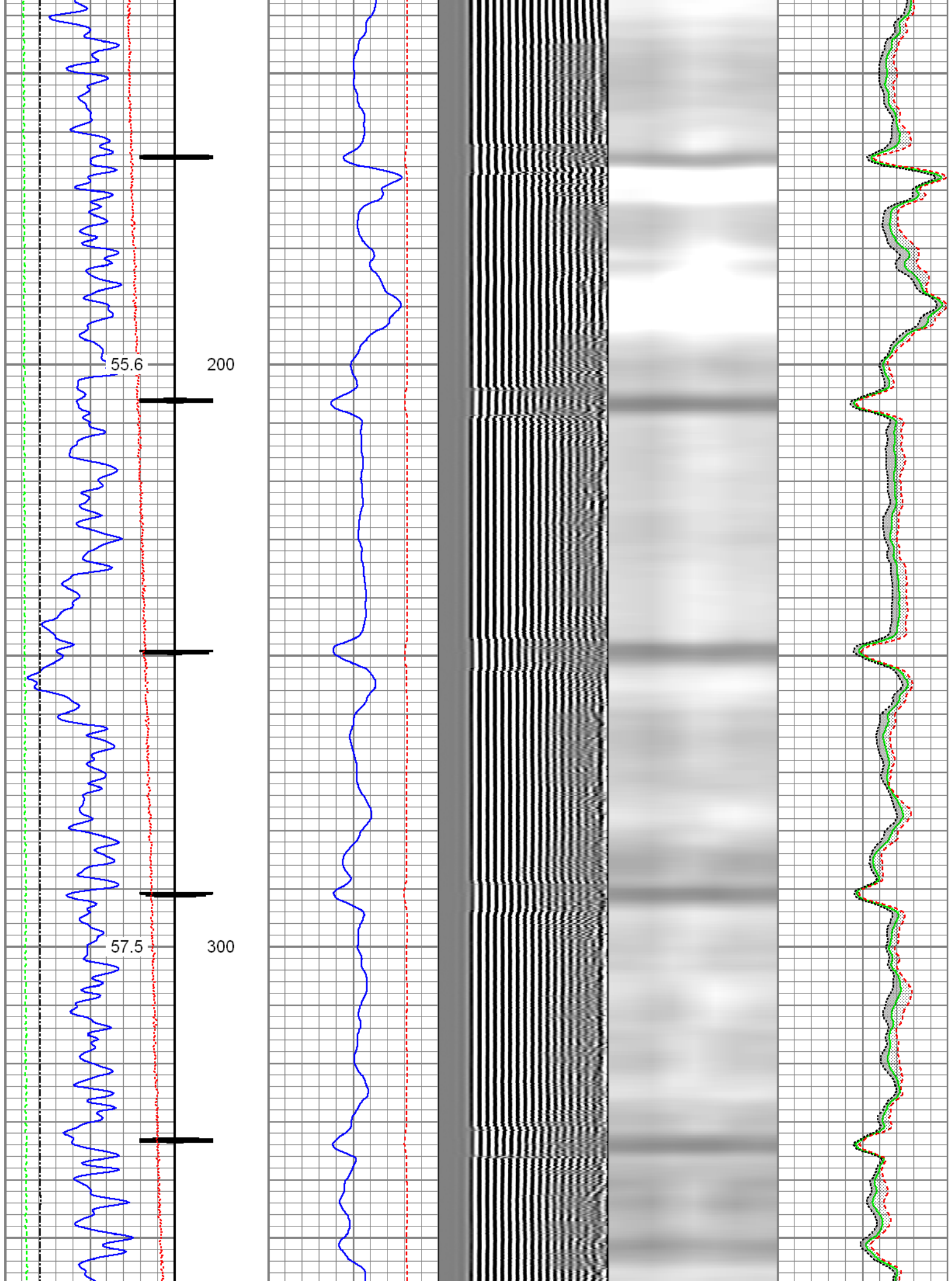
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 reference to Kelly Bushing at 8 FT. Adjusted log -0- FT to correlate with 8 FT KB. Log ran from RBP at 4883 FT to Surface. Logging tools were clean and free of any debris upon completion of operations. Thank you for choosing FMC Technologies Completion Services, Inc.!!

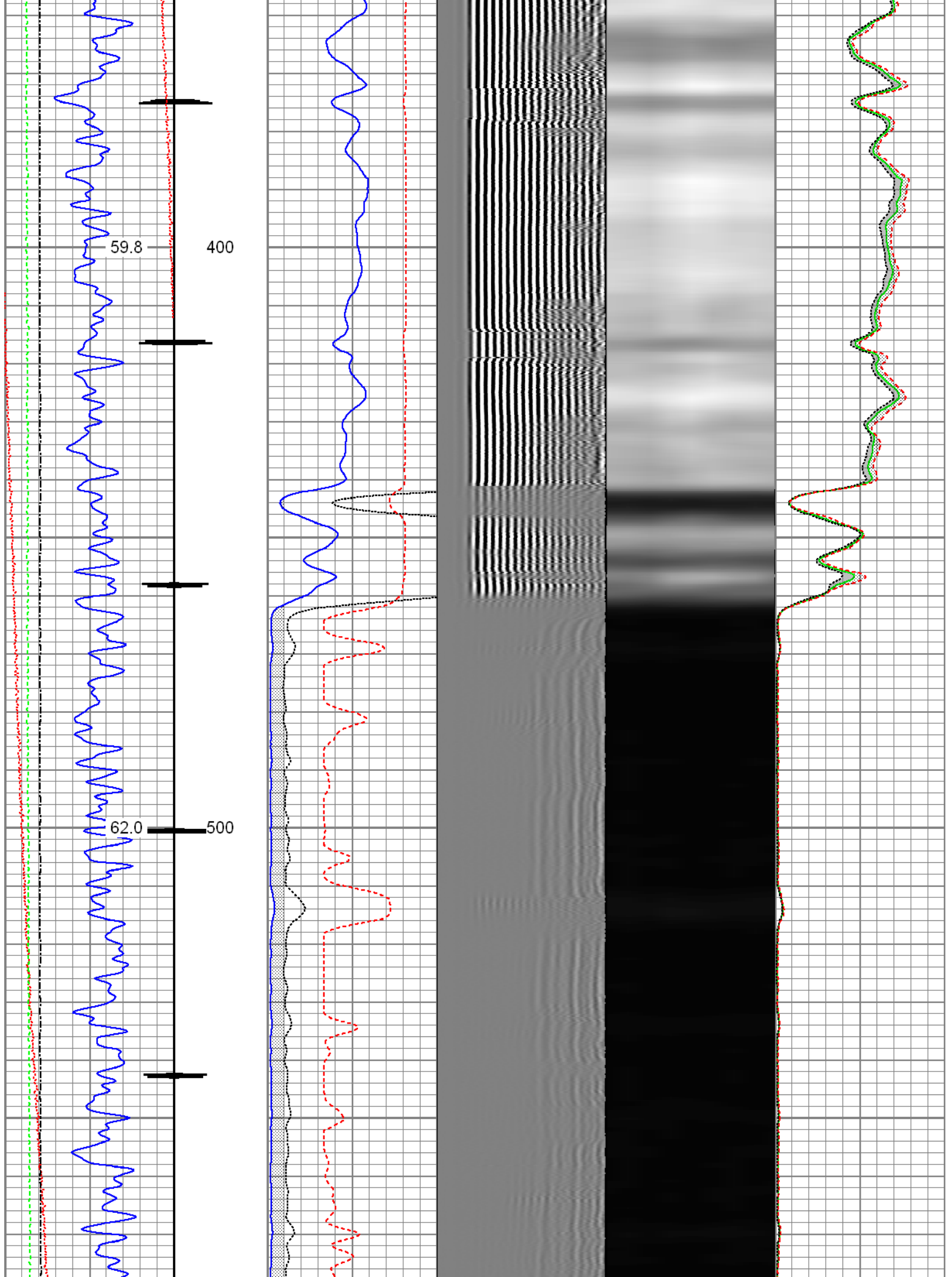


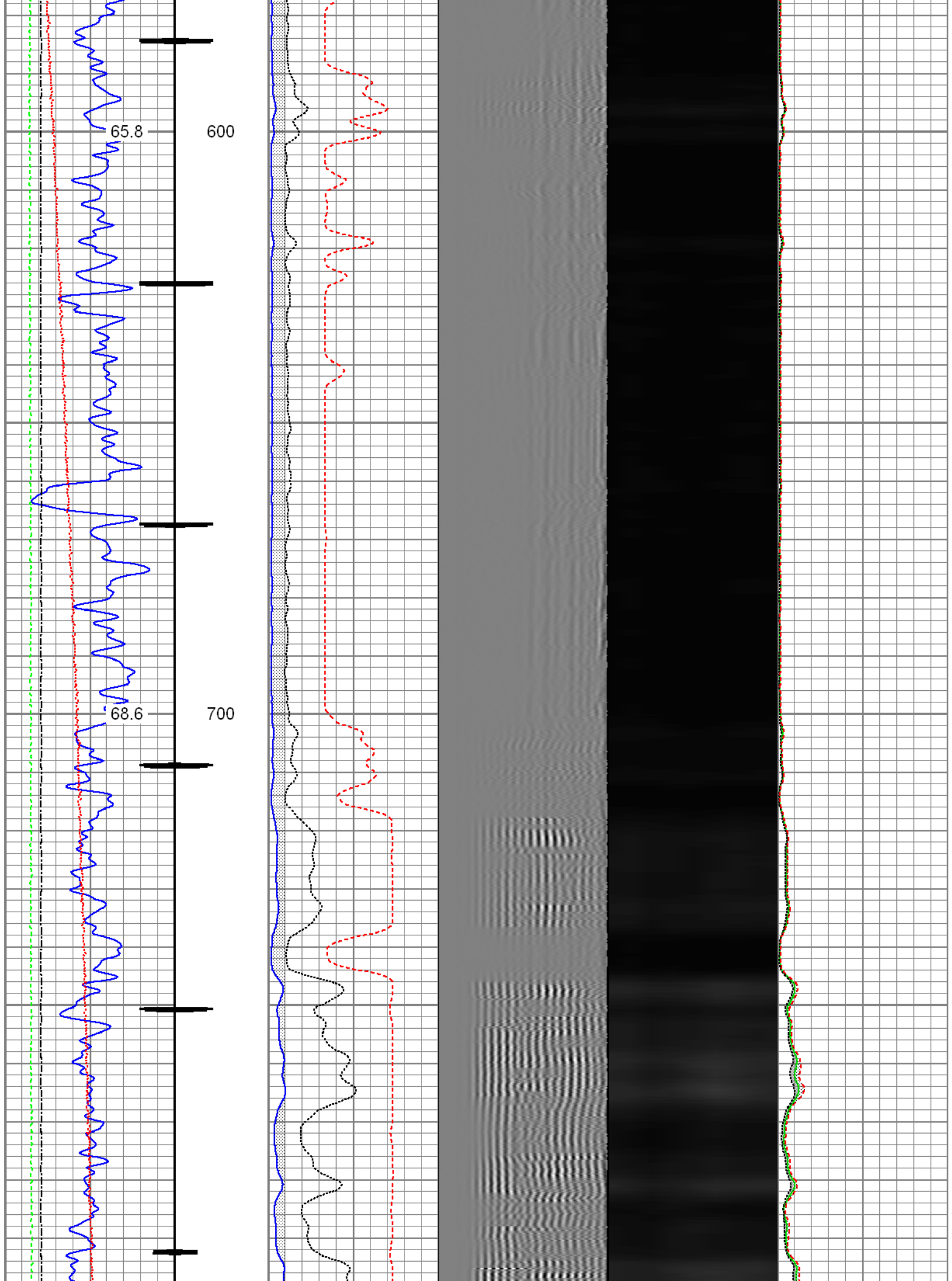
Database File: 03-12-15_kpk_seltzer 1-a_rbl.db
Dataset Pathname: pass4
Presentation Format: radii
Dataset Creation: Thu Mar 12 13:20:24 2015 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

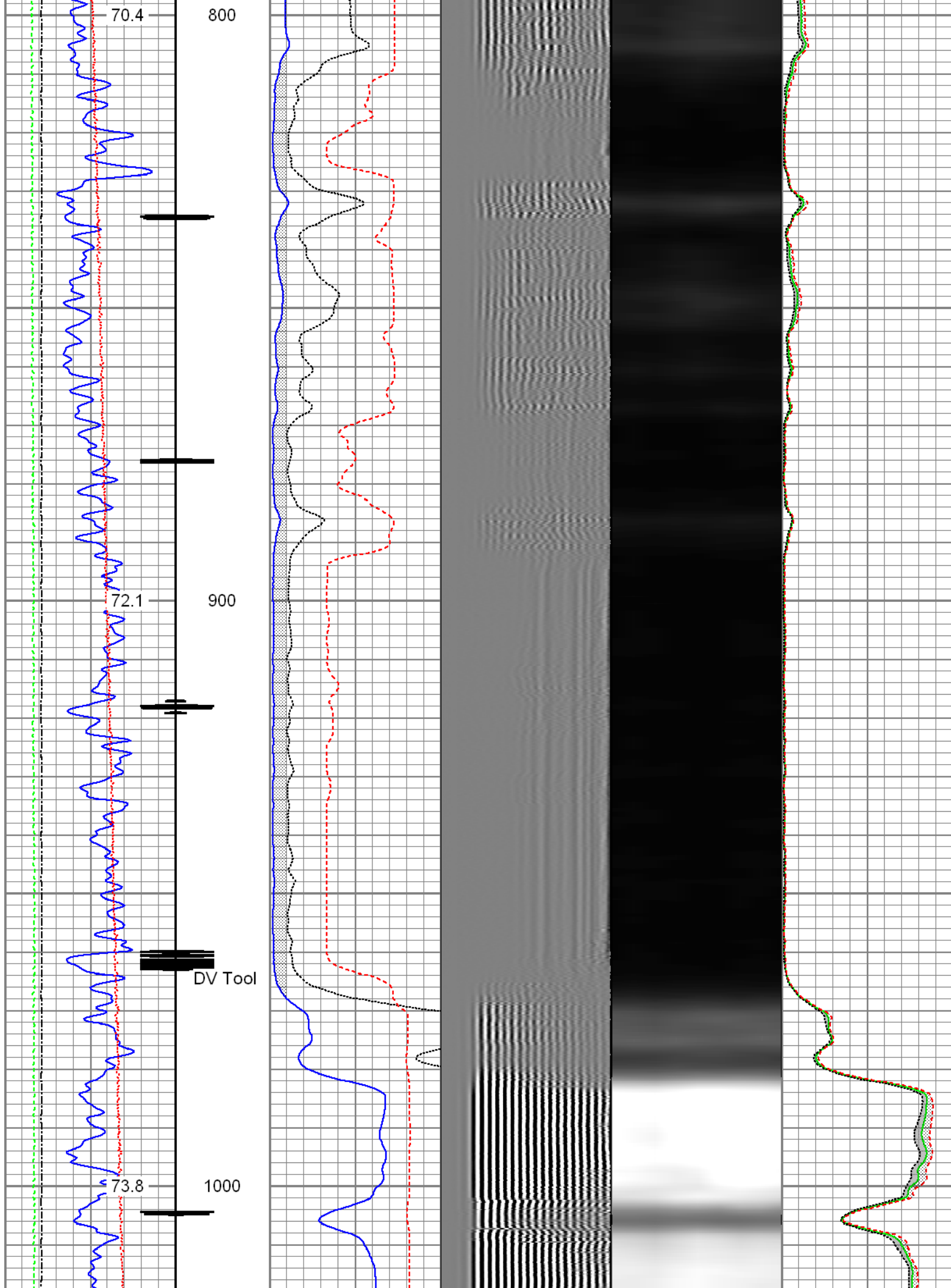
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
Temperature	0 (mV) 20			0 100
0 (degF) 20	3' Travel Time			Maximum Amplitude
Line Speed	650 (usec) 150			0 100
-150 (ft/min) 150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

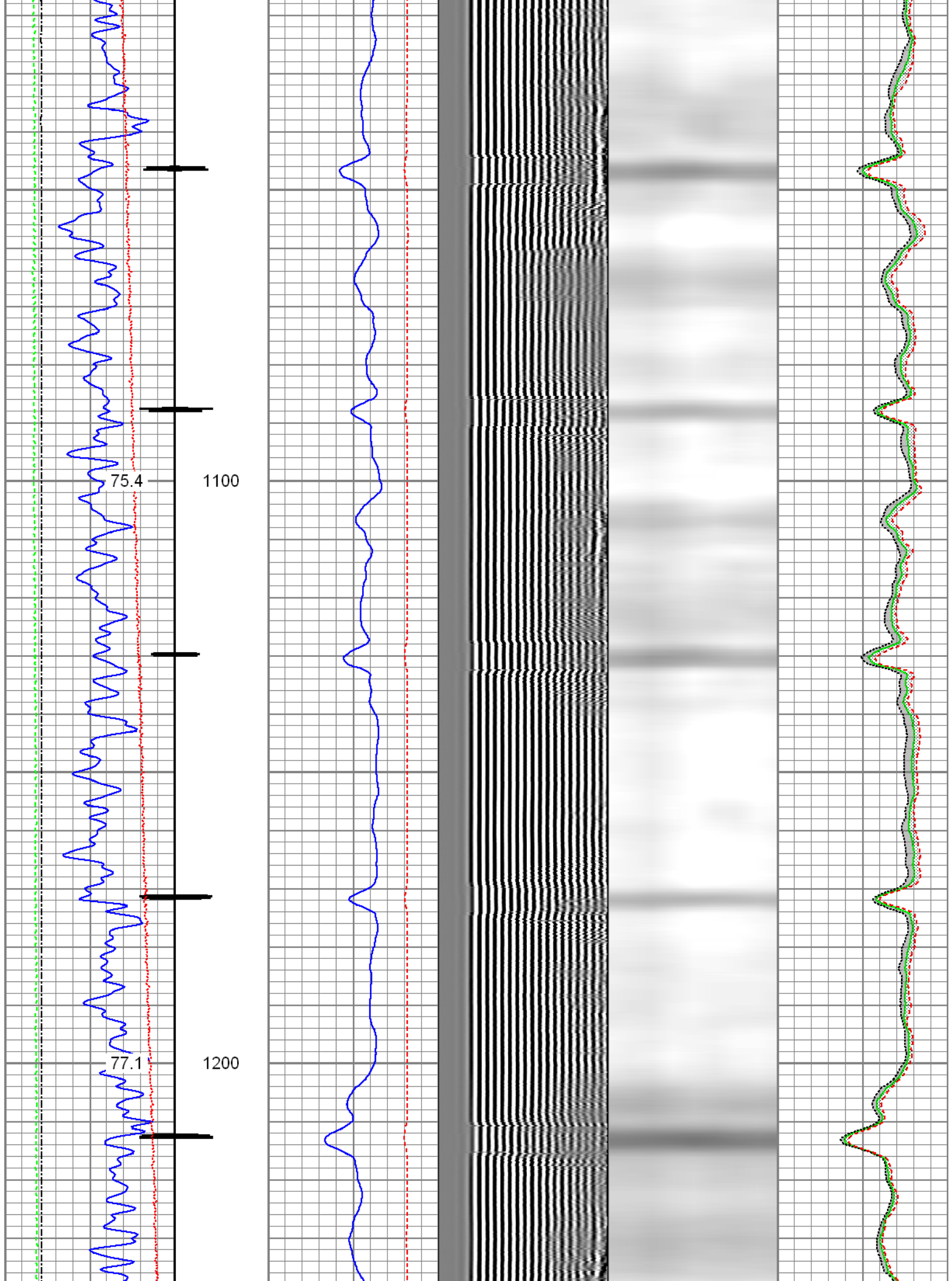


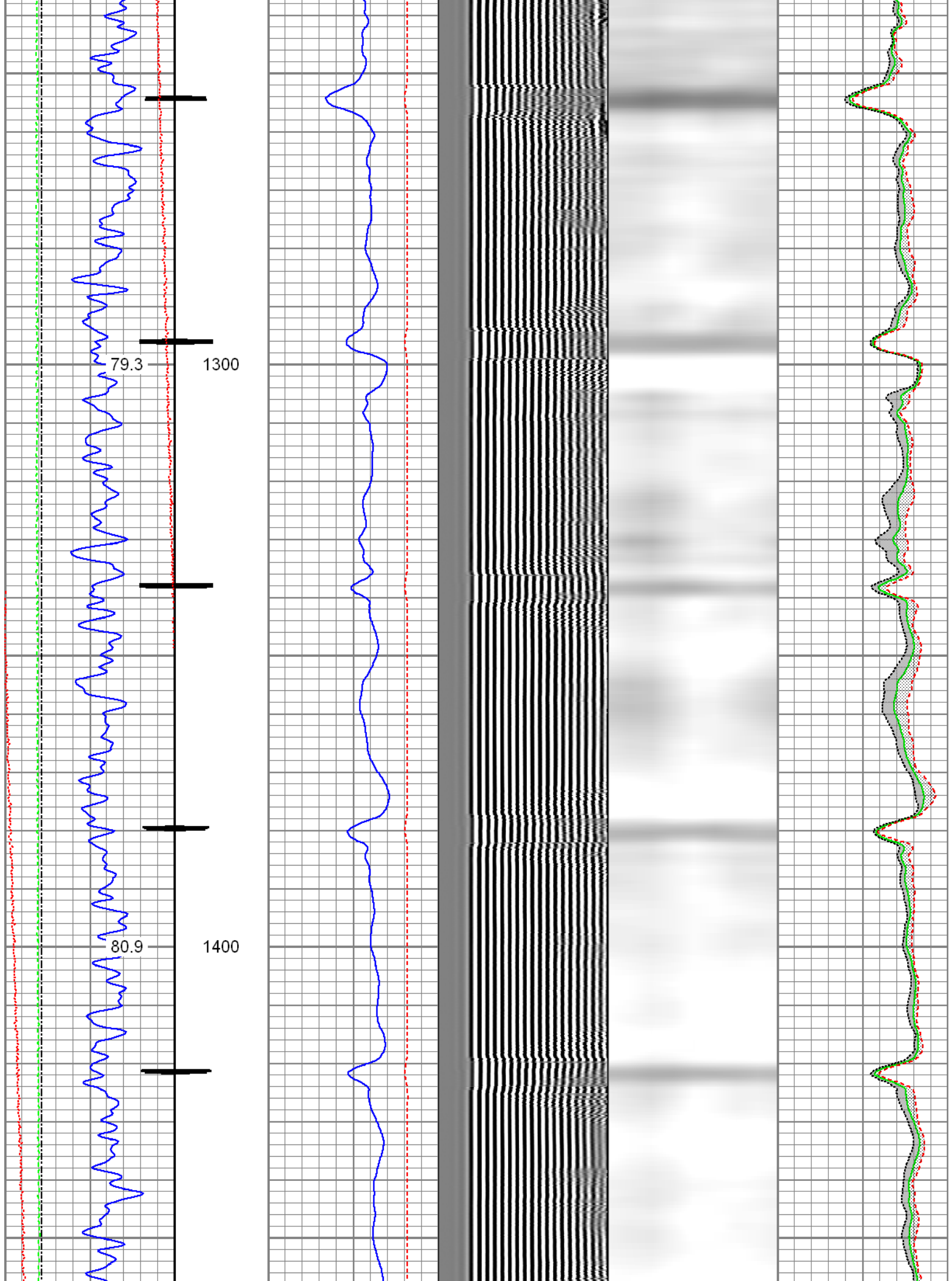


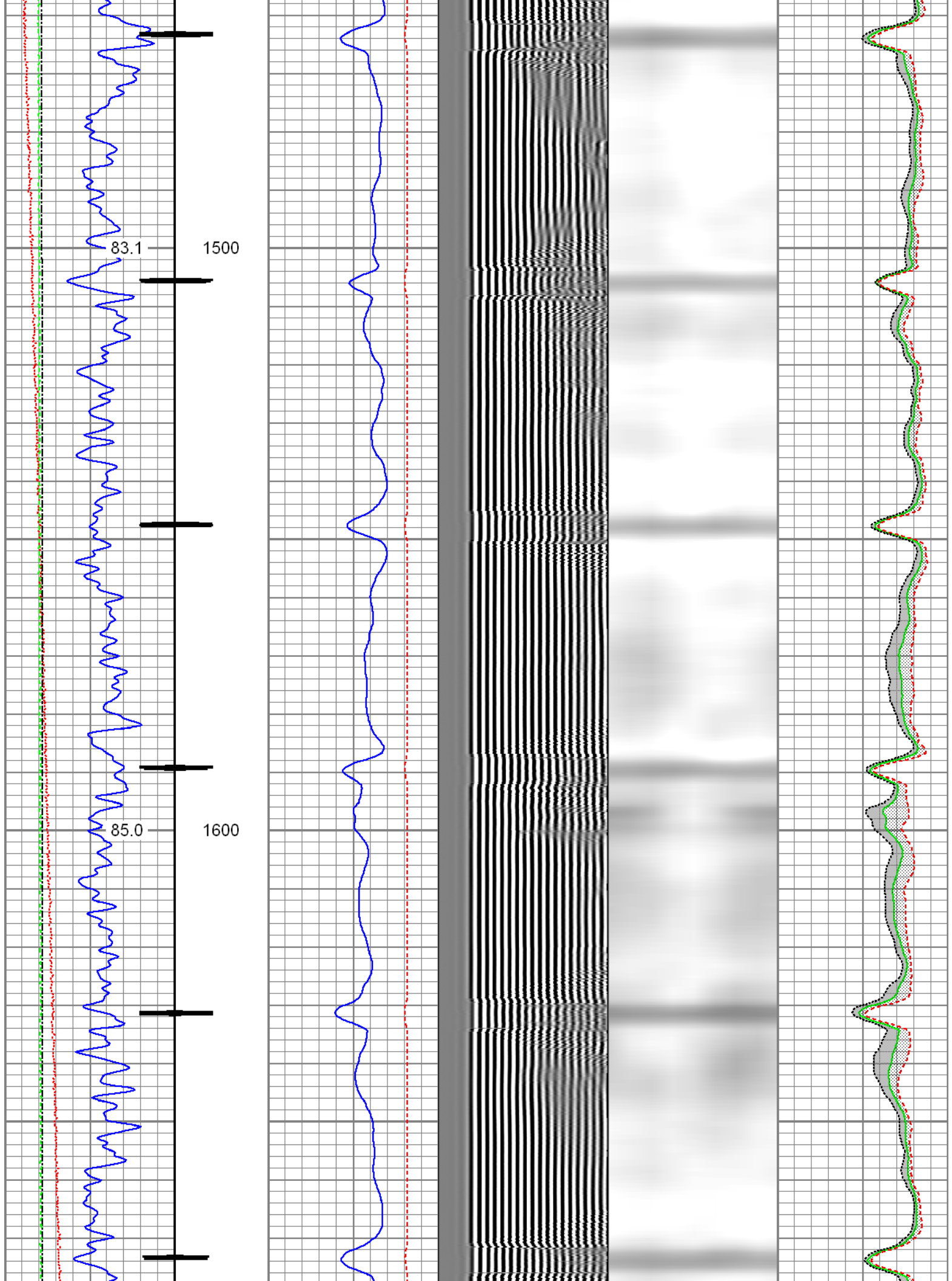


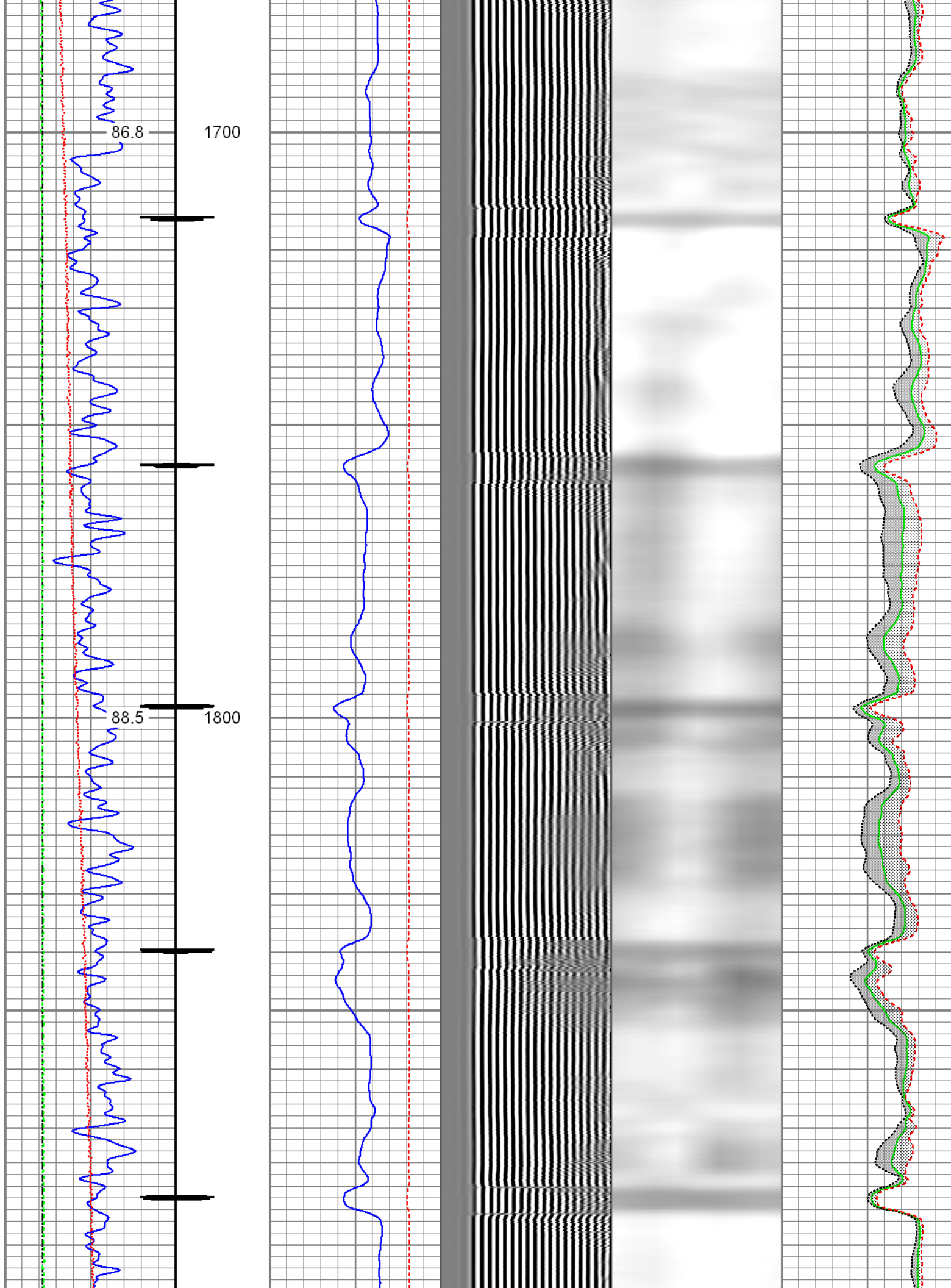


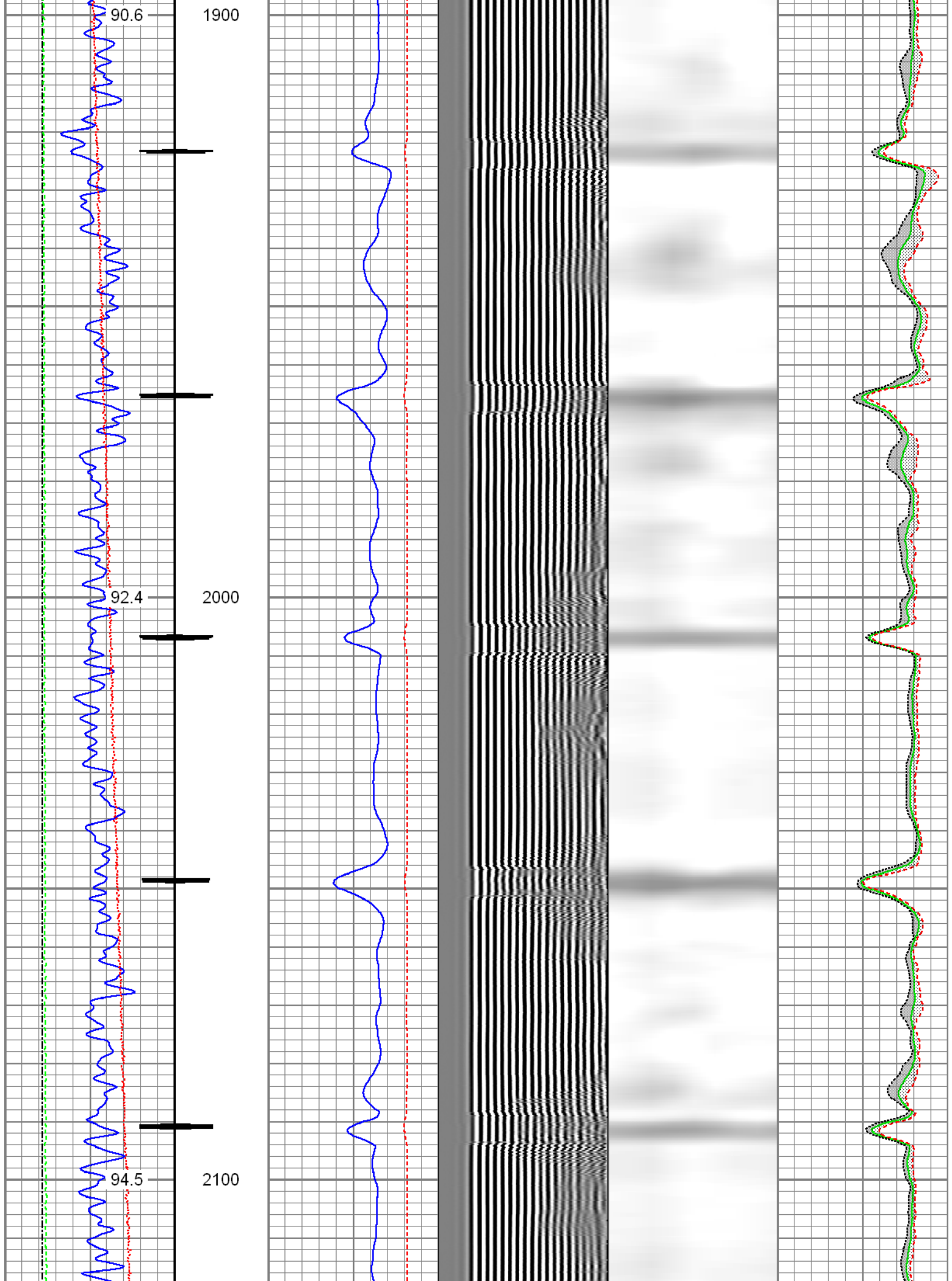


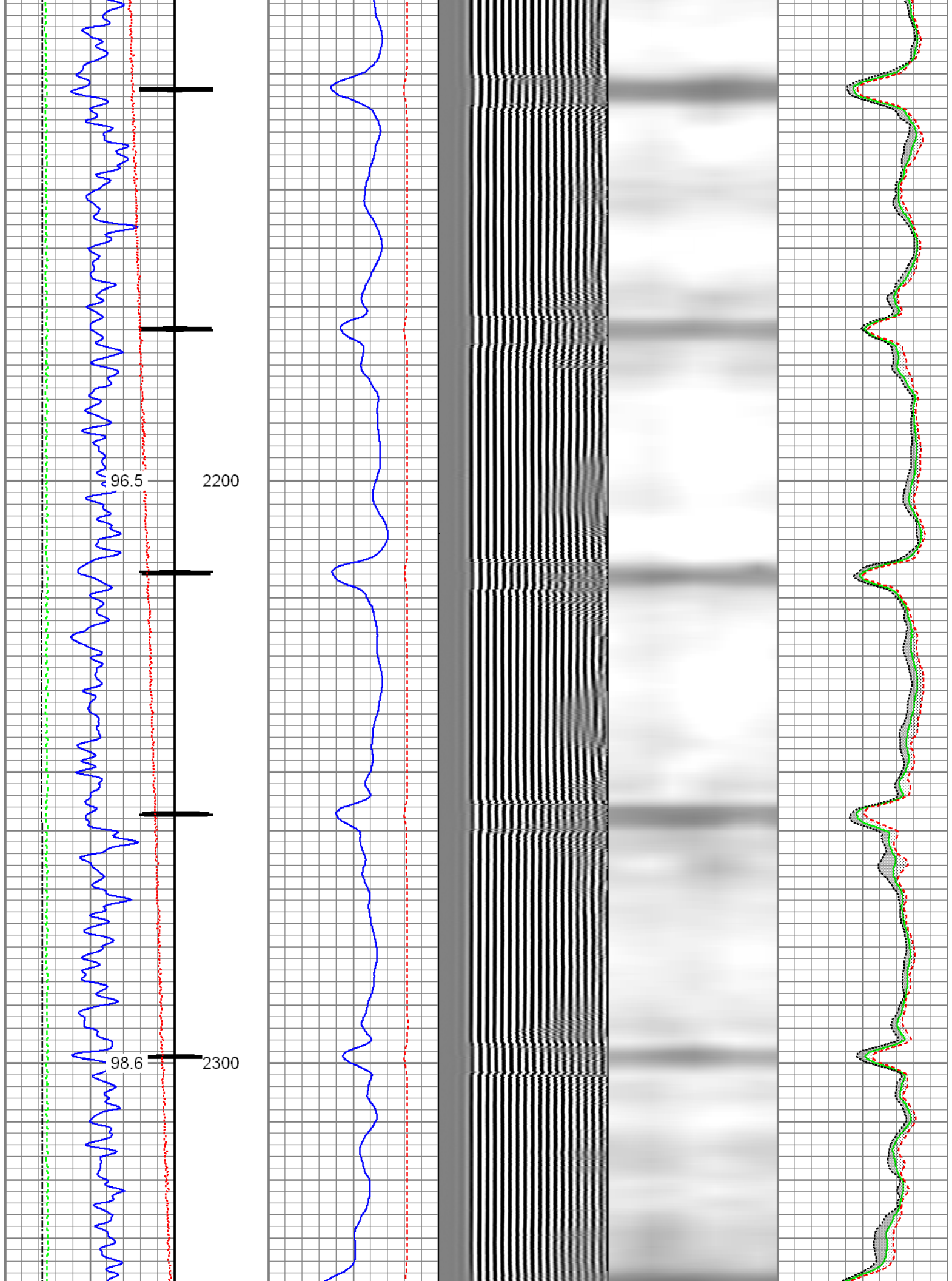


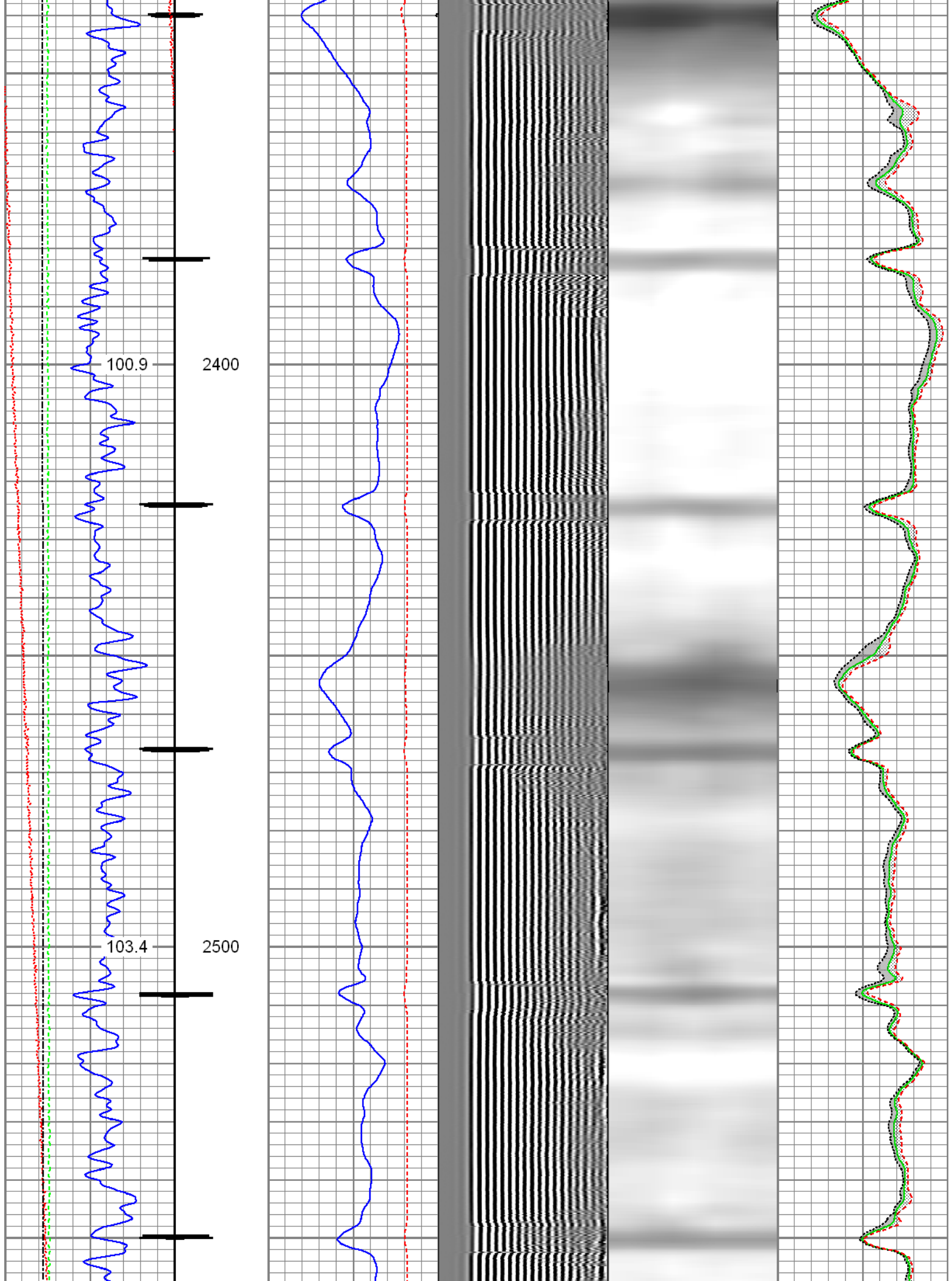


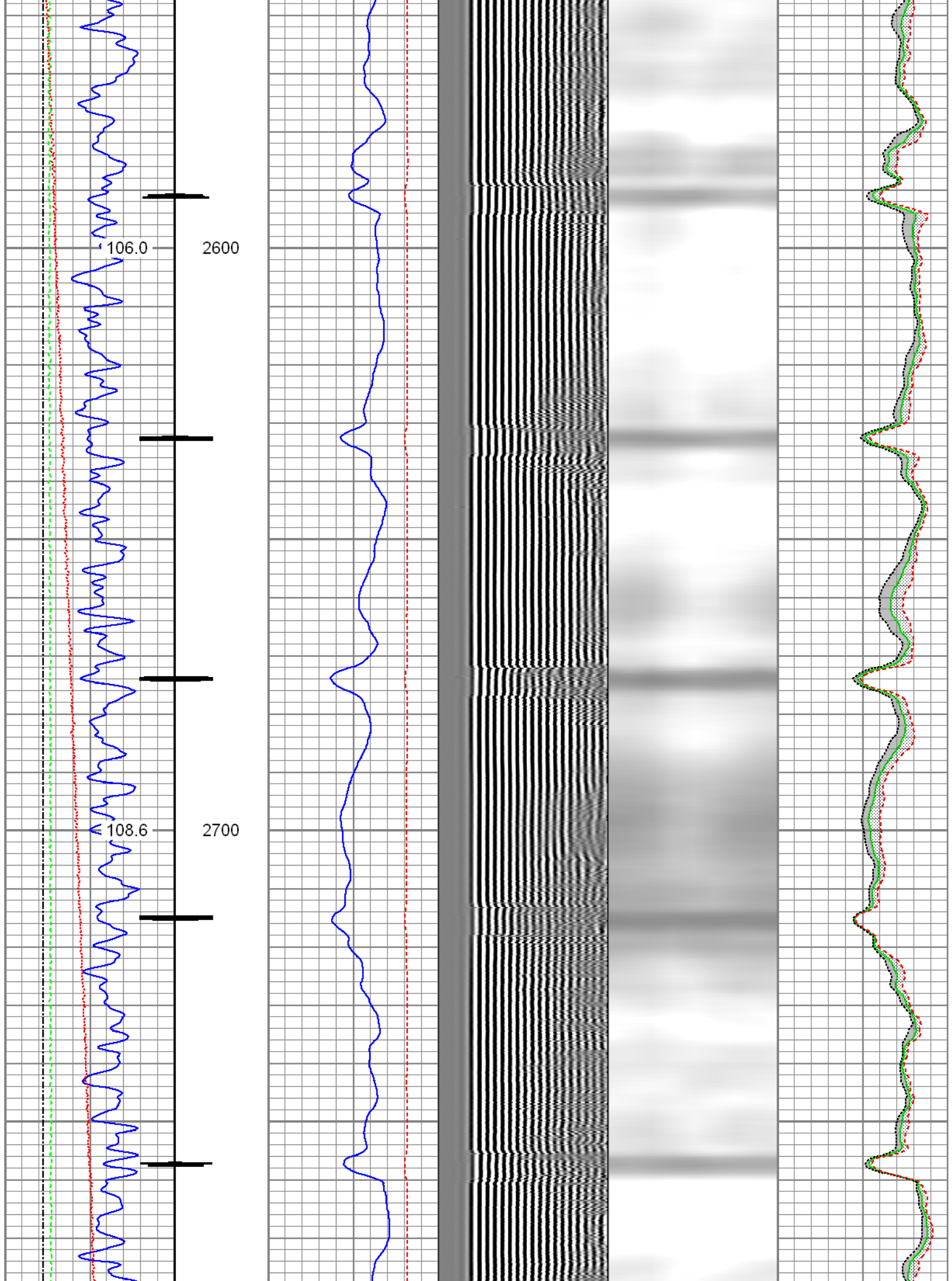


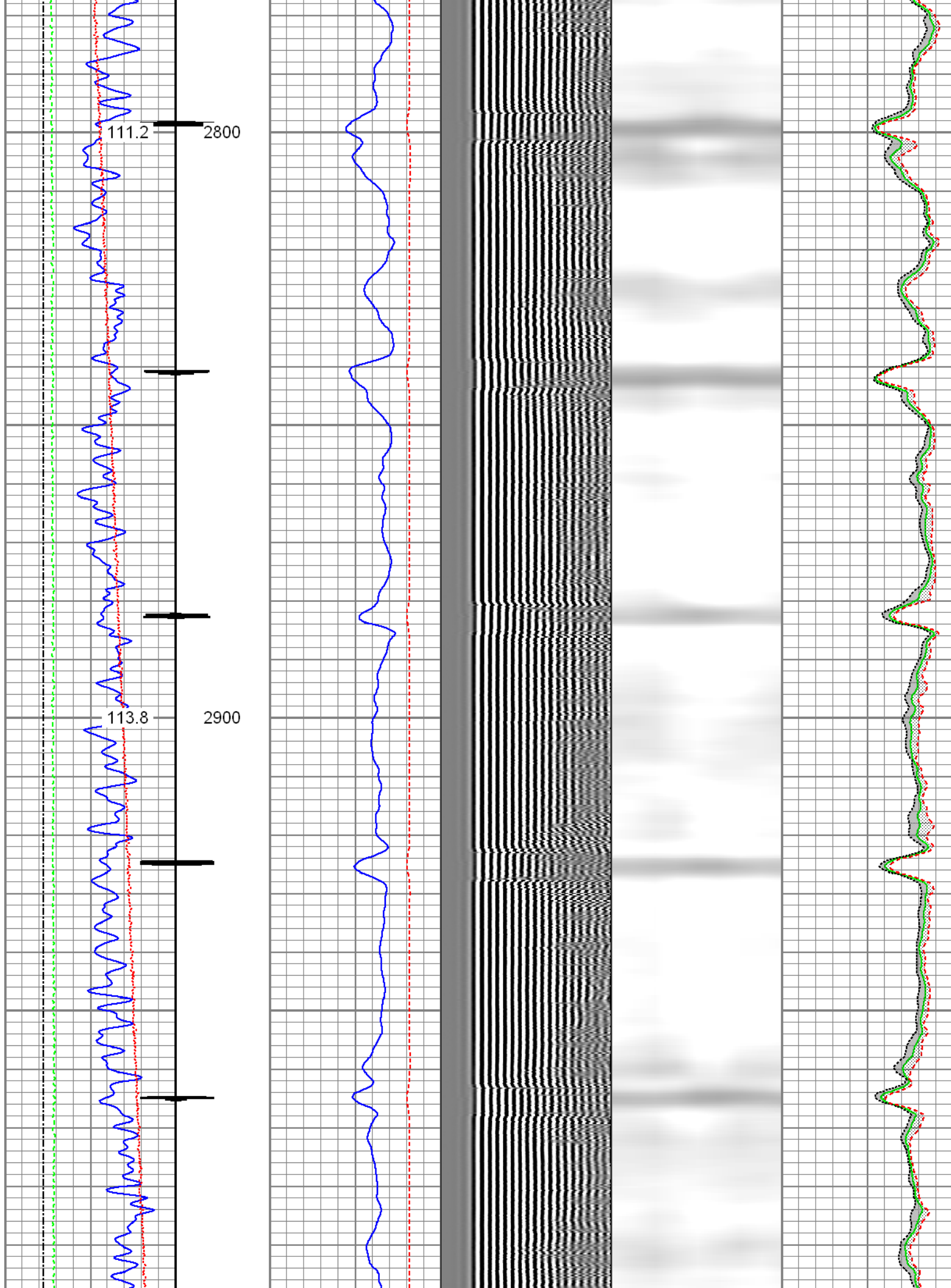


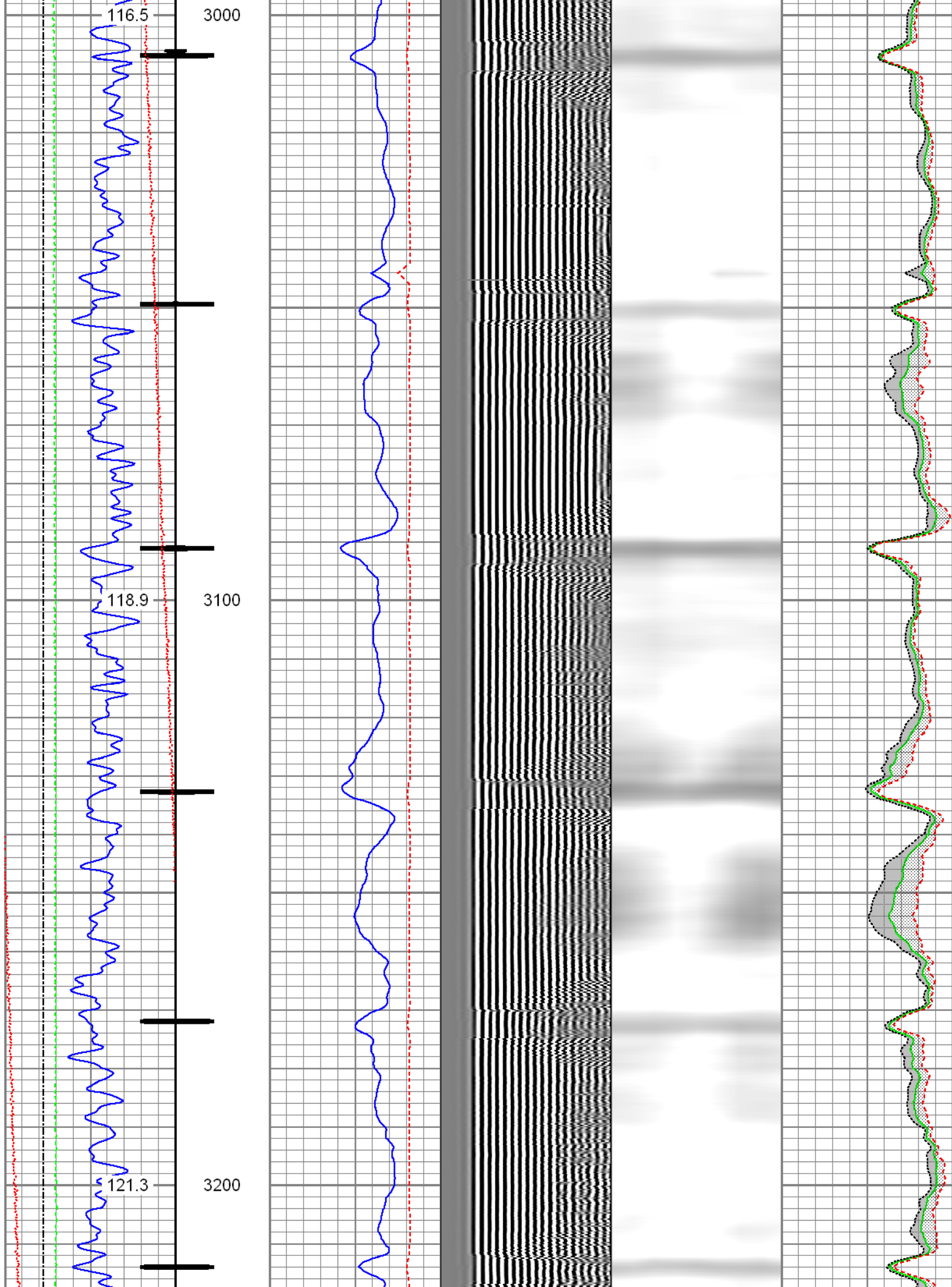


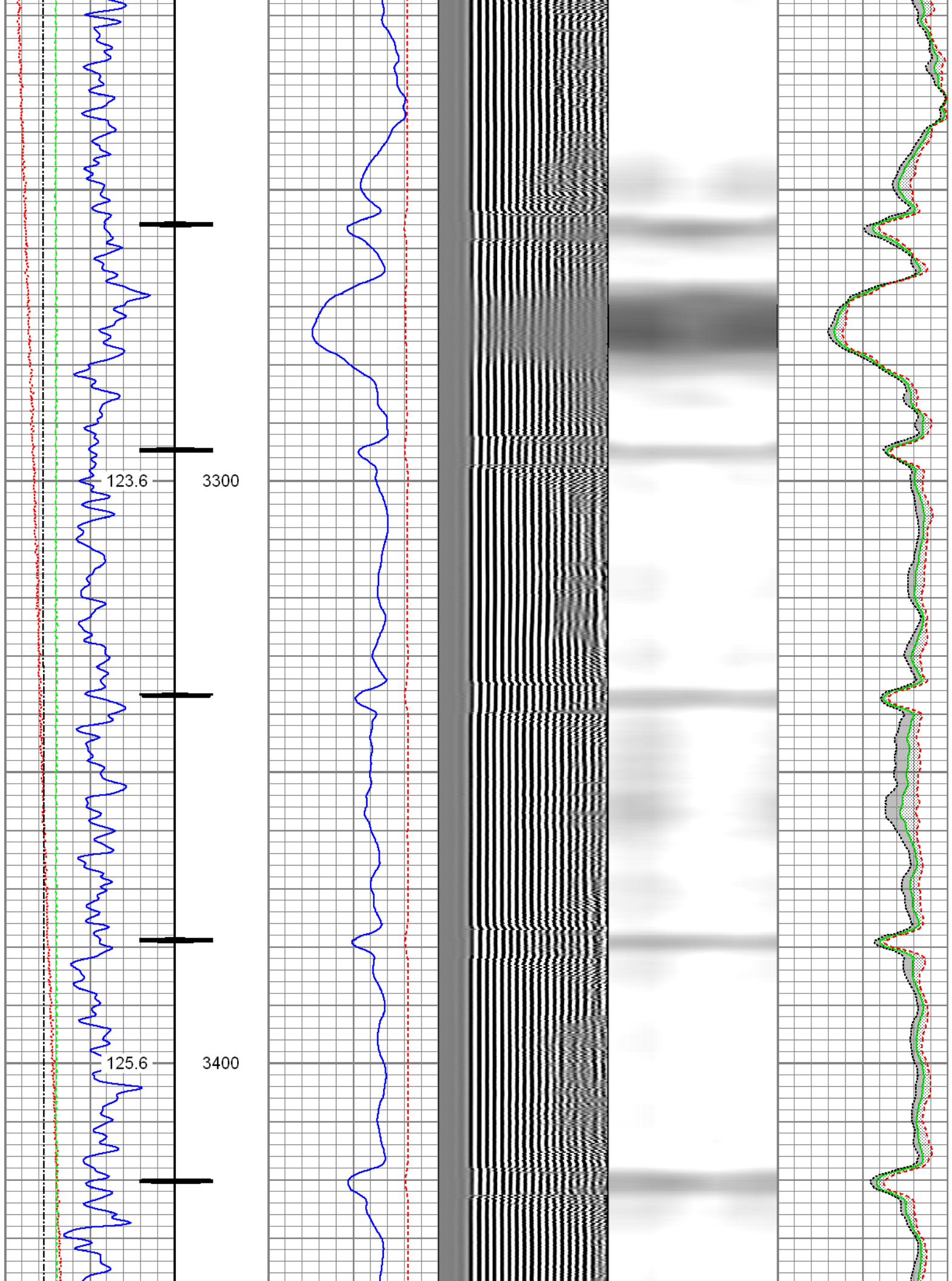


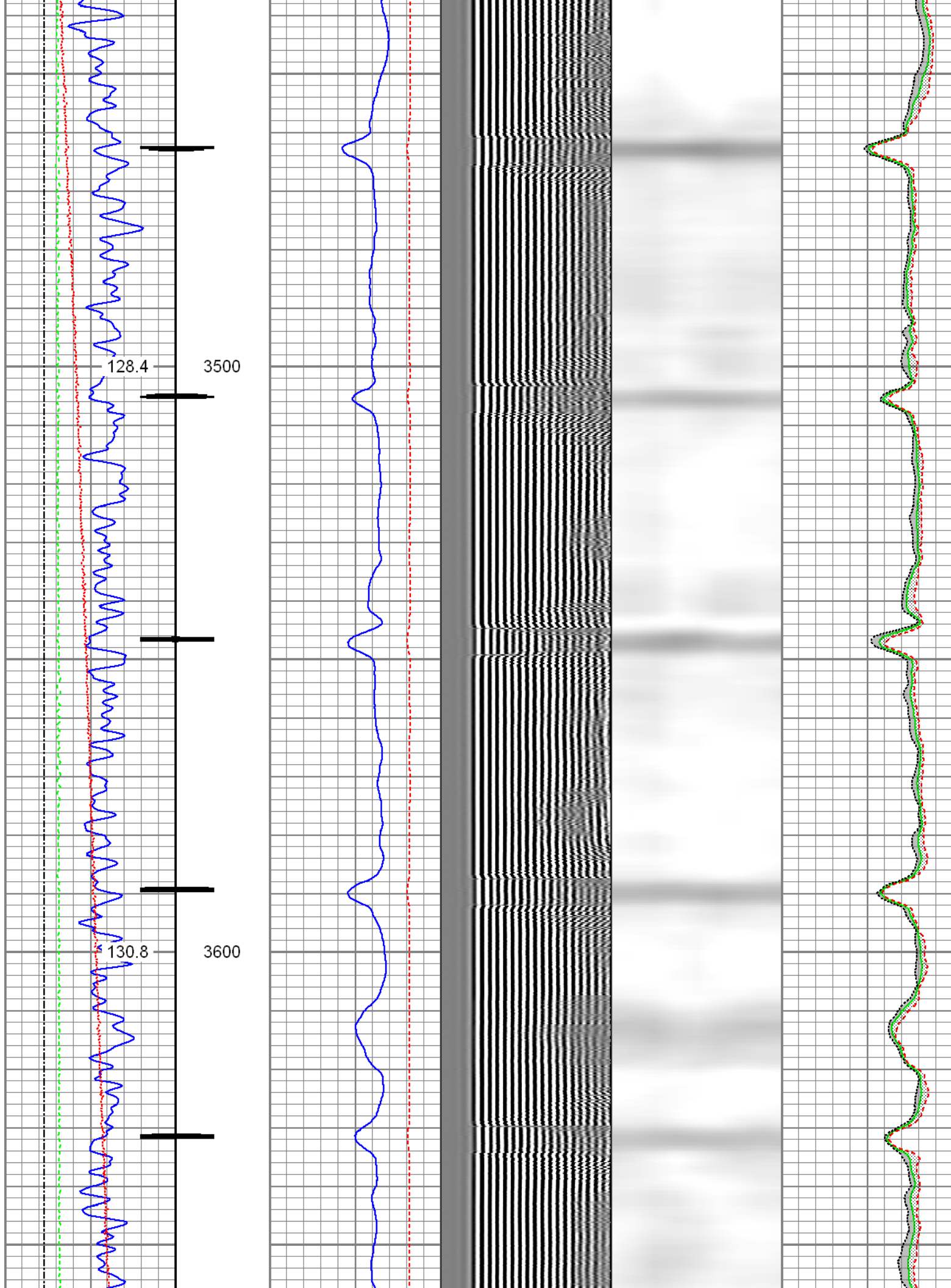


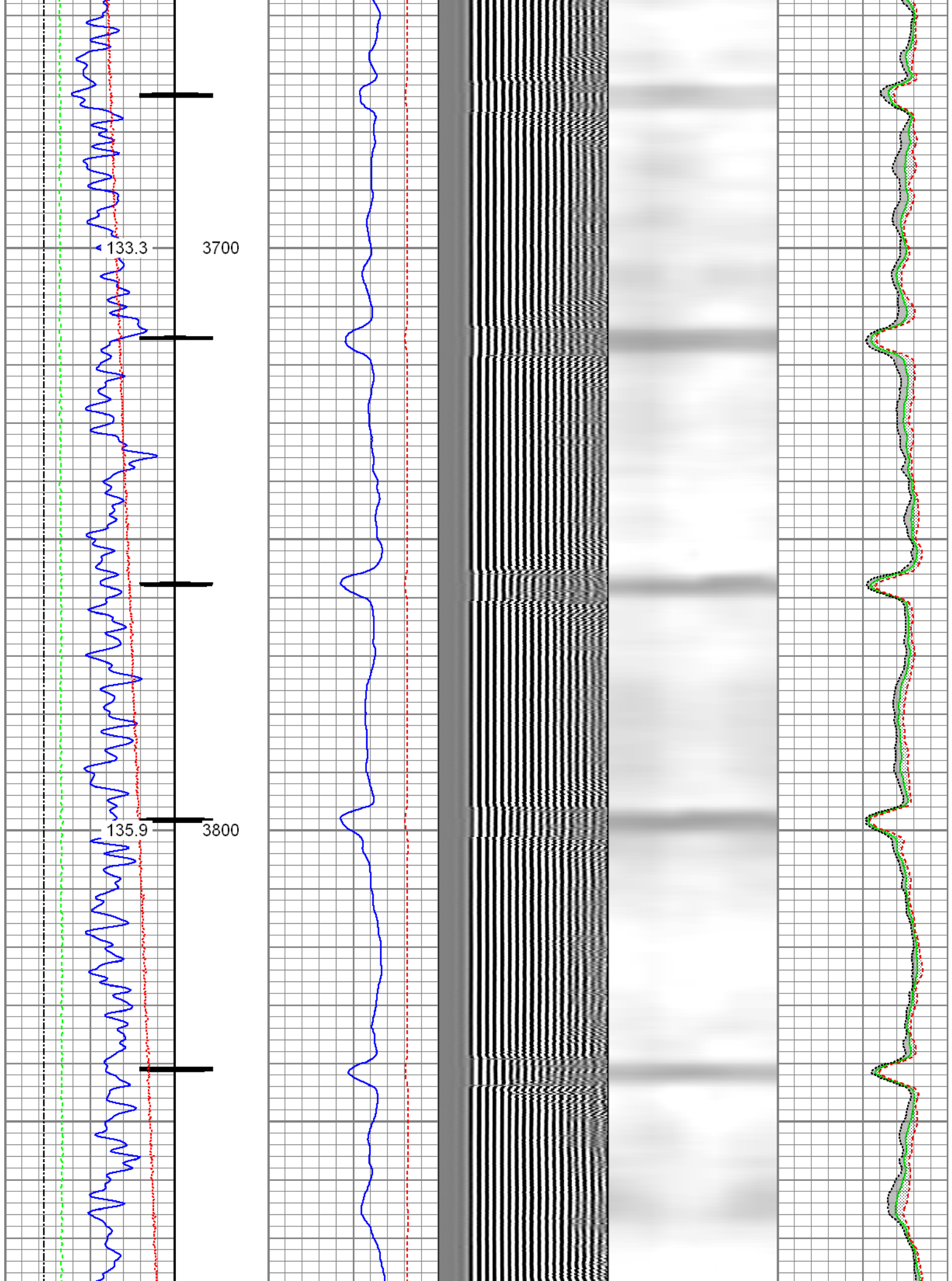


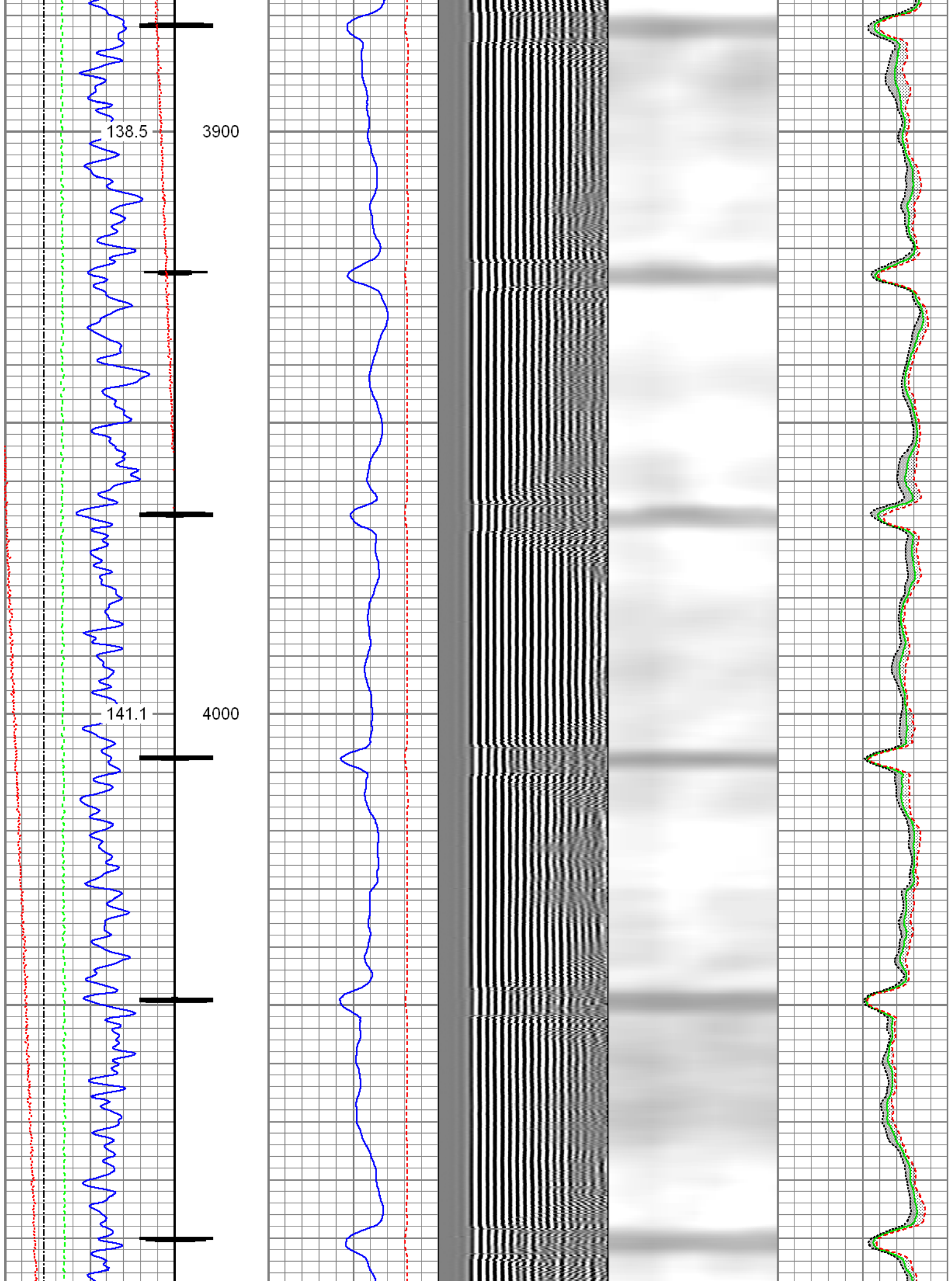


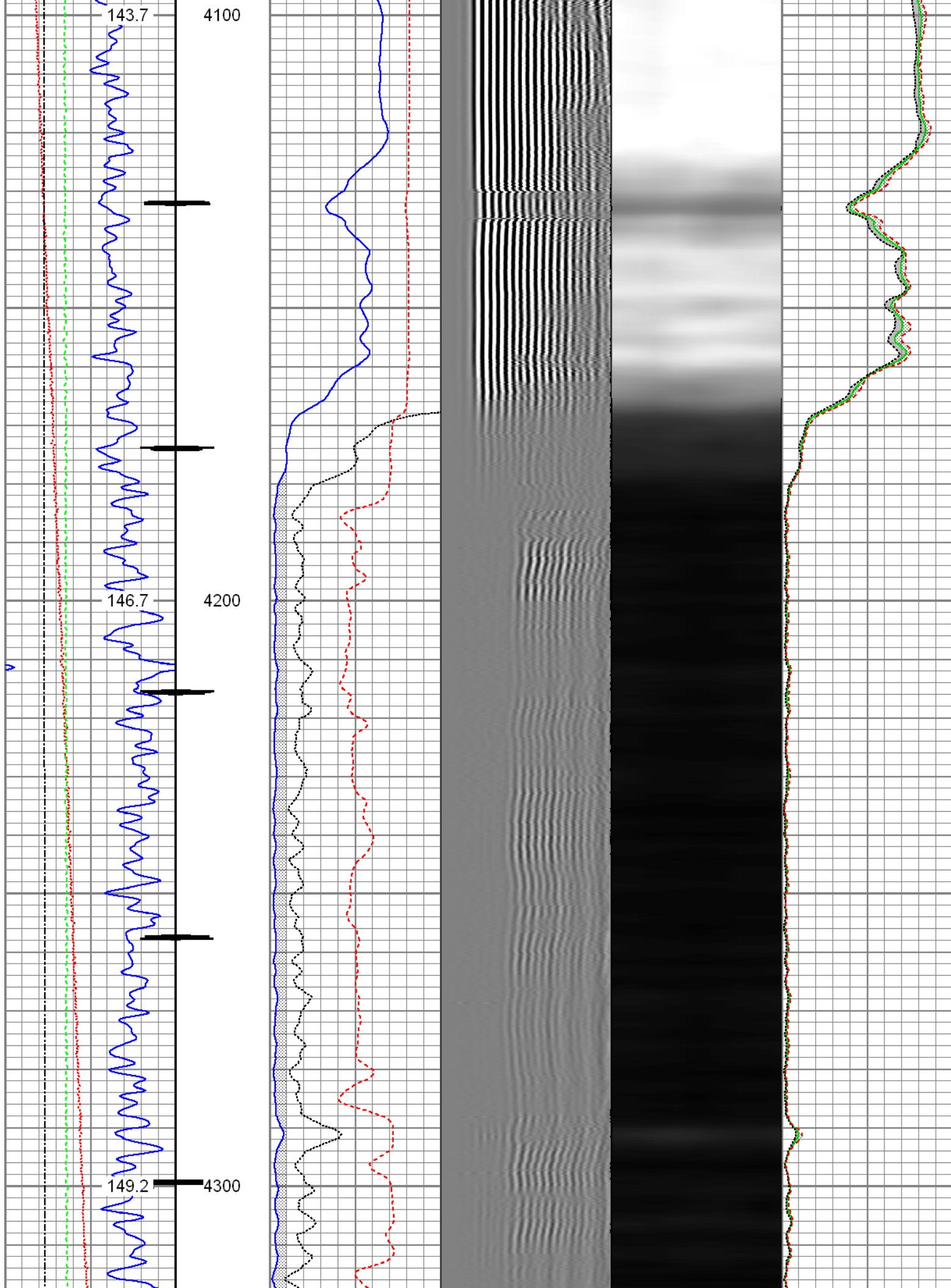


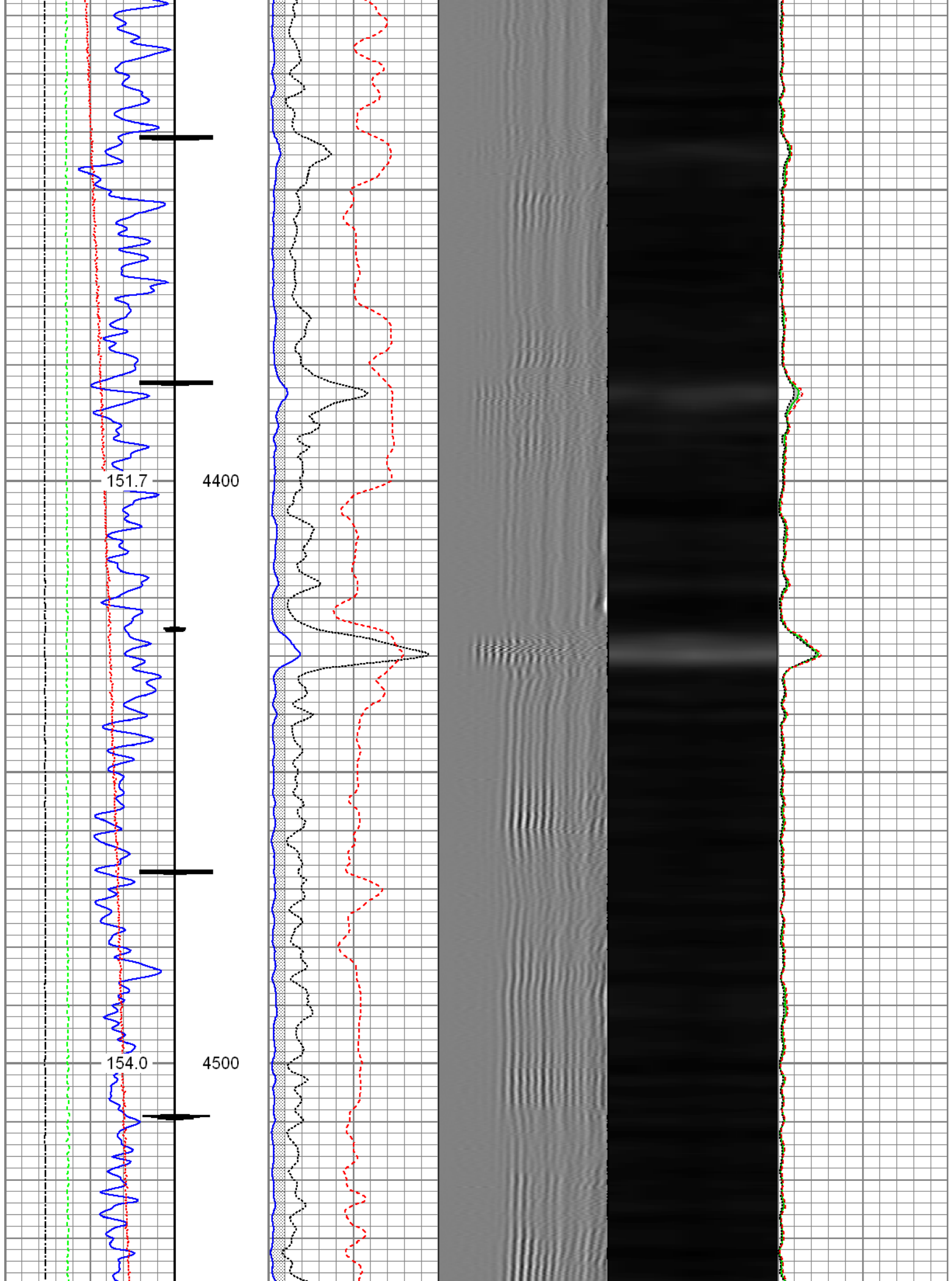


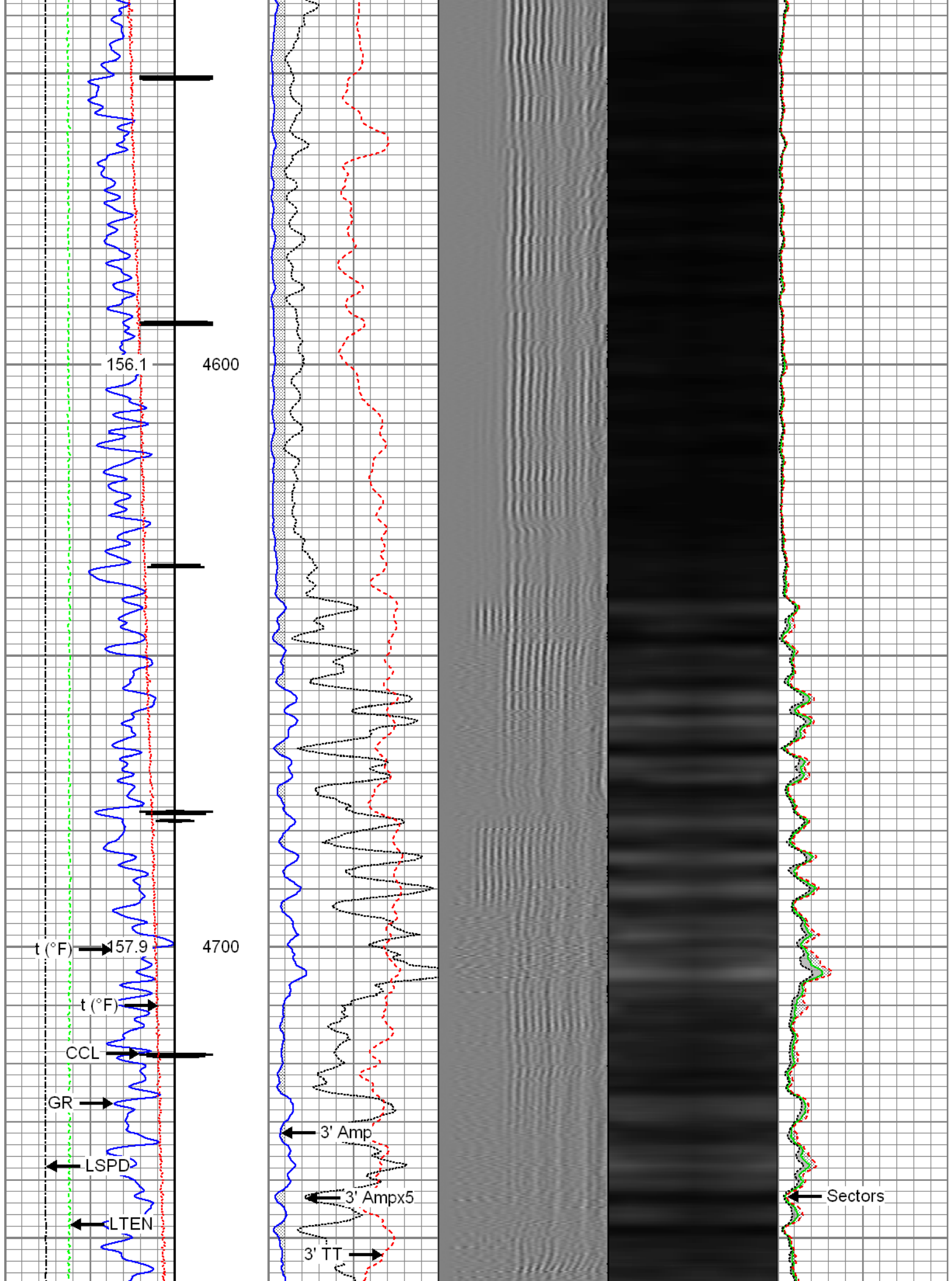


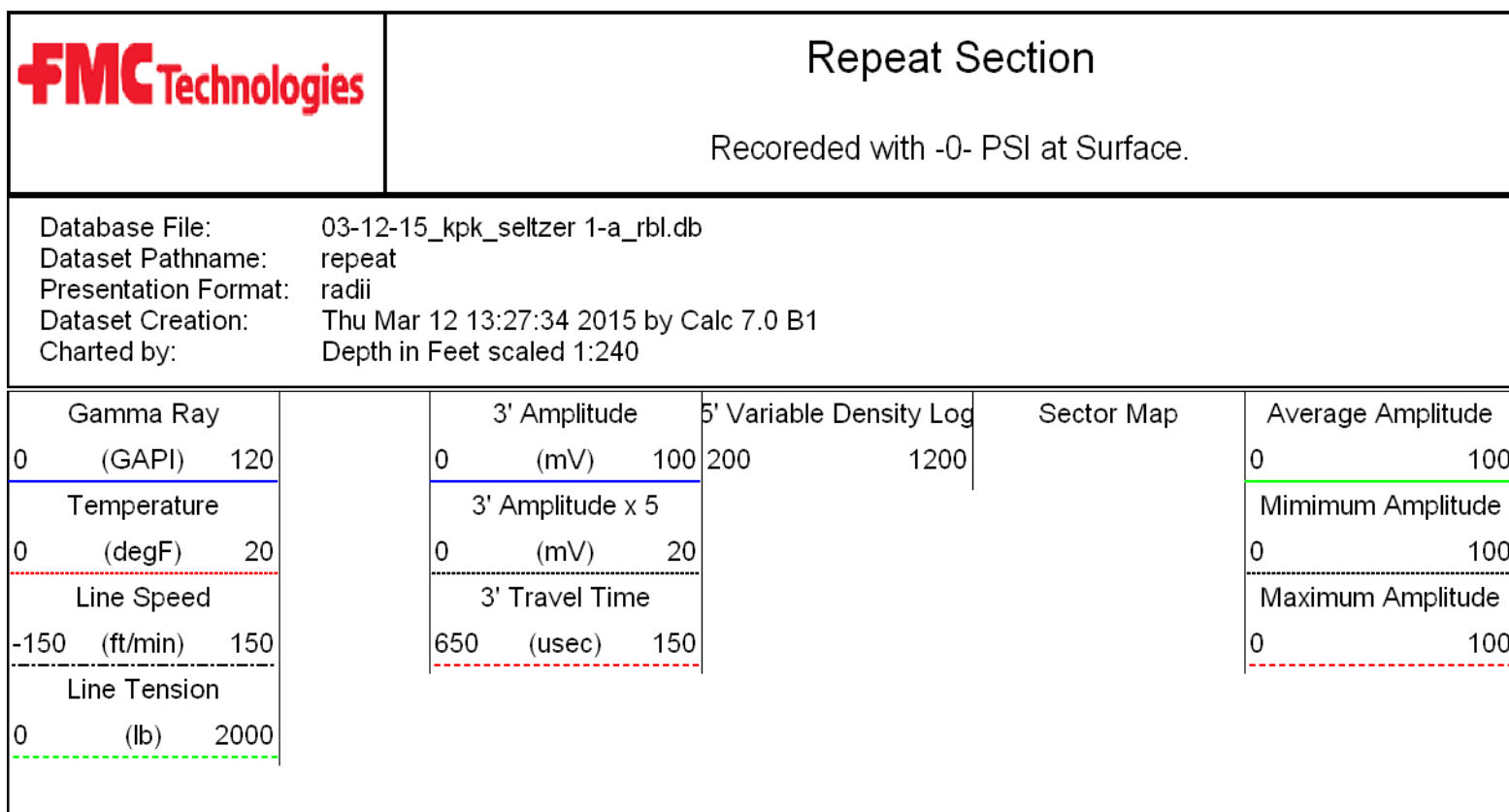
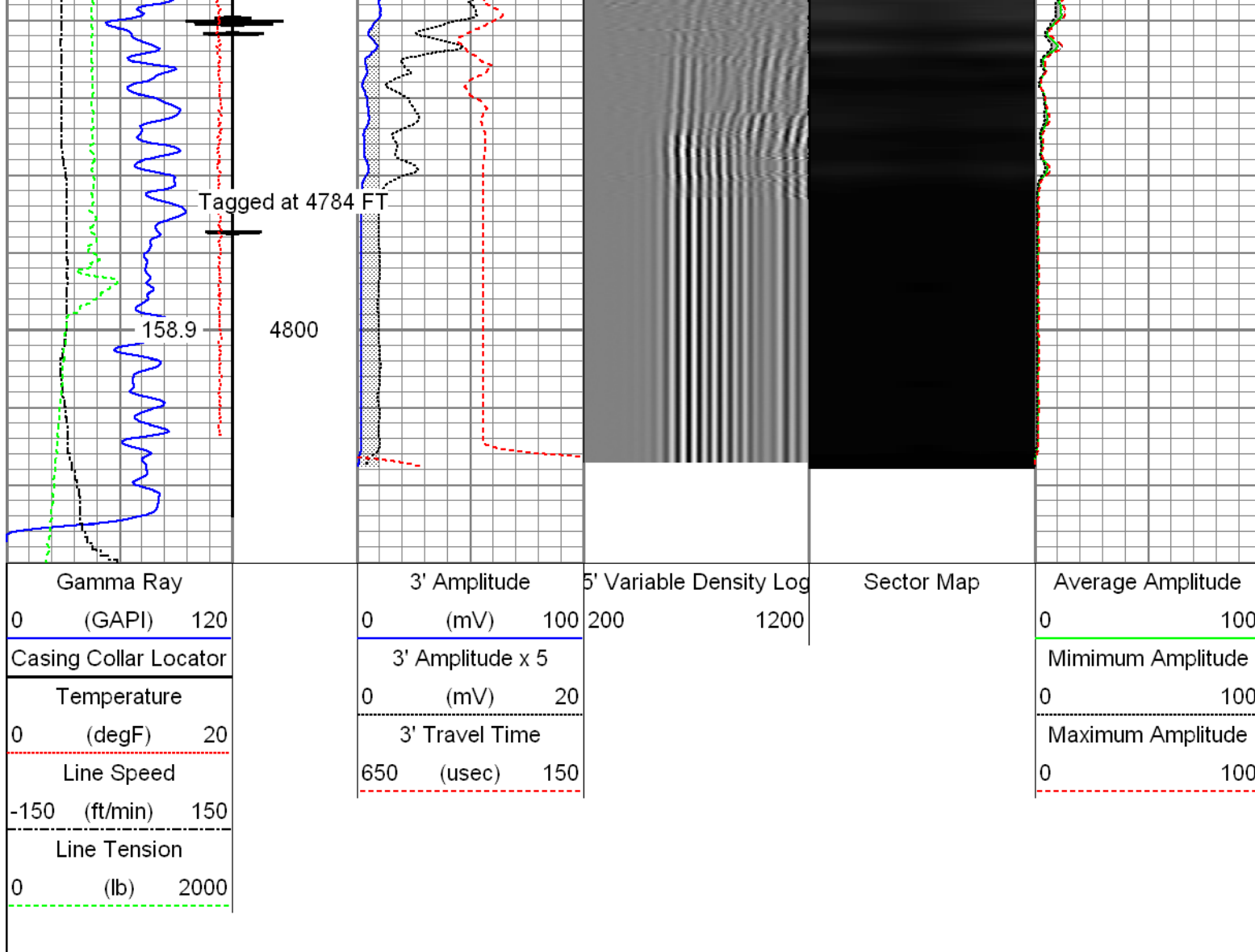


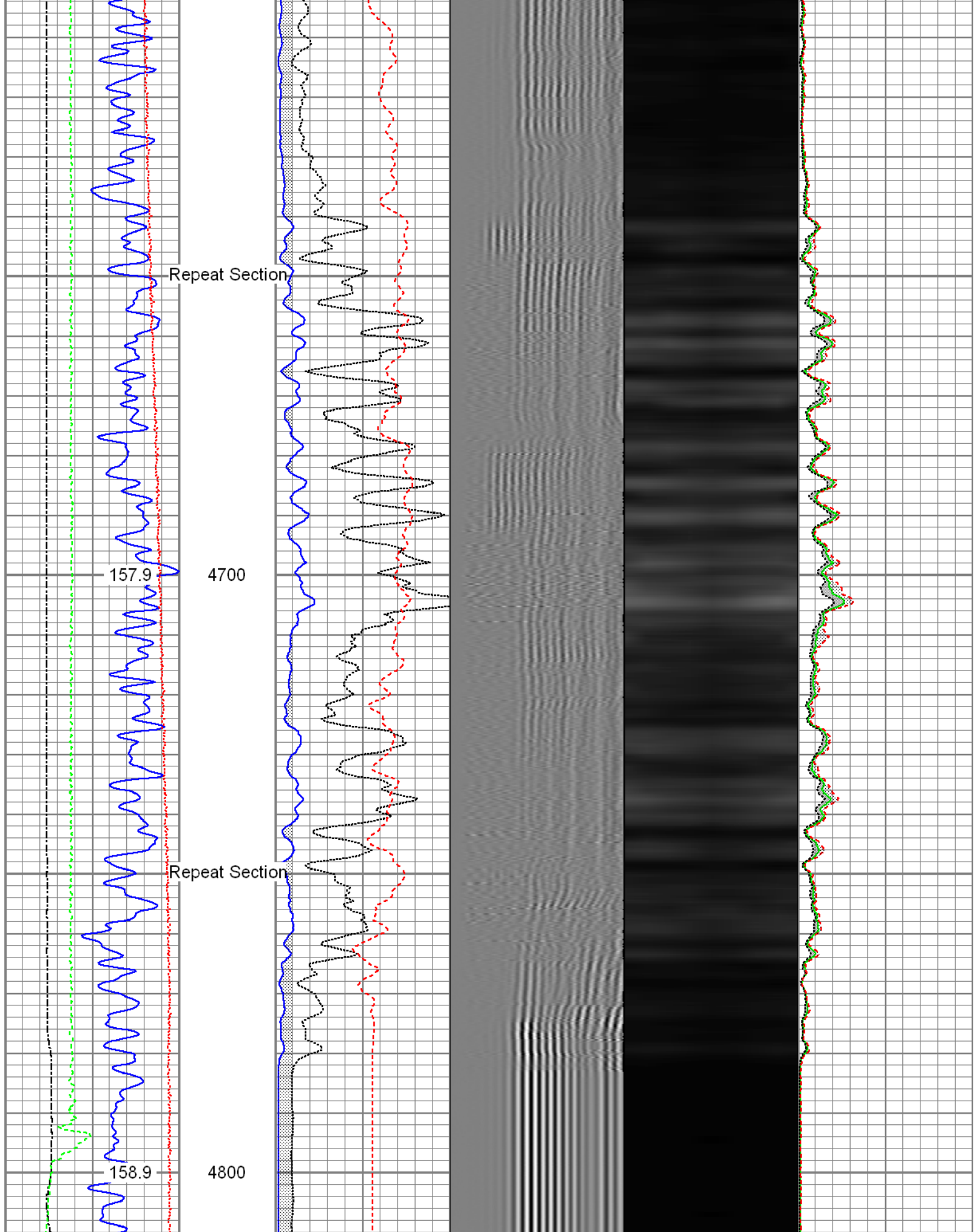






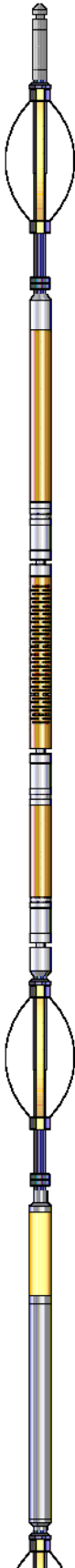






Gamma Ray (GAPI)	3' Amplitude (mV)	5' Variable Density Log	Sector Map	Average Amplitude
0 120	0 100	200 1200		0 100
Temperature	3' Amplitude x 5			Minimum Amplitude

0 (degF) 20	0 (mV) 20	0 100
Line Speed	3' Travel Time	Maximum Amplitude
-150 (ft/min) 150	650 (usec) 150	0 100
Line Tension		
0 (lb) 2000		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
HeadVolt	19.55		CHD-AES (000001) Cable Head	1.04	1.69	2.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Temp	16.68		Probe_RADII-C-2-3/4" (FW1302-002) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.21	2.75	100.00
WVF3FT	14.57					
WVFCAL	14.57					
WVFS1	14.57					
WVFS2	14.57					
WVFS3	14.57					
WVFS4	14.57					
WVFS5	14.57					
WVFS6	14.57					
WVFS7	14.57					
WVFS8	14.57					
WVF5FT	13.57					
CCL	6.59		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
			Probe_CCL_GR-2.75"Digital (FW1211-081) Probe 2-3/4" Digital CCL / Gamma Ray Combined	4.58	2.75	55.00
GR	5.25					



Probe_IL_BS_Cent
Probe 2-3/4" Inline Electrical Inline Bowspring
Centralizer

2.88

2.75

10.00

Dataset: 03-12-15_KPK_Seltzer 1-A_RBL.db: field/well/run1/pass4
Total Length: 23.47 ft
Total Weight: 187.00 lb
O.D.: 2.75 in

Calibration Report

Database File: 03-12-15_KPK_Seltzer 1-A_RBL.db
Dataset Pathname: pass4
Dataset Creation: Thu Mar 12 13:20:24 2015 by Calc 7.0 B1

Gamma Ray Calibration Report

Serial Number: FW1211-081
Tool Model: 2.75"Digital
Performed: Fri Mar 06 09:59:41 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5500 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1302-002
Tool Model: 2-3/4"

Calibration Casing Diameter: 4.500 in
Calibration Depth: 1158.596 ft

Master Calibration, performed Thu Mar 12 14:20:00 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.520	0.800	81.196	154.750	0.775
CAL	0.009	0.760				
5'	0.000	0.446	0.800	81.196	180.188	0.755
SUM						
S1	0.000	0.497	0.000	100.000	201.318	-0.096
S2	0.001	0.499	0.000	100.000	200.744	-0.135
S3	0.000	0.530	0.000	100.000	188.773	-0.093
S4	0.000	0.603	0.000	100.000	165.755	-0.029
S5	-0.000	0.683	0.000	100.000	146.403	0.019
S6	0.001	0.637	0.000	100.000	157.125	-0.095
S7	0.000	0.541	0.000	100.000	184.836	-0.012
S8	0.002	0.504	0.000	100.000	199.150	-0.326

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset

CAL	0.000	0.000	0.009	0.760	1.000	0.000
Air Zero Calibration, performed Thu Mar 12 12:59:21 2015:						
	Raw (v)	Calibrated (v)	Results			
	Zero	Zero	Offset			
3'	0.009	0.000	0.000			
5'	0.008	0.000	-0.000			
SUM						
S1	0.016	0.000	0.000			
S2	0.009	0.000	0.001			
S3	0.008	0.000	0.000			
S4	0.007	0.000	0.000			
S5	0.008	0.000	-0.000			
S6	0.007	0.000	0.000			
S7	0.008	0.000	-0.000			
S8	0.032	0.000	0.001			

	Company	K.P. Kauffman Company Inc.
	Well	Seltzer 1-A
	Field	Spindle
	County	Weld
	State	Colorado