



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company		Kerr-McGee Oil & Gas Onshore, L.P.	
Well		Ackerson Doris B 1	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API #: 05-123-08300	
SEC 11 TWP 1N RGE 66W		Other Services None	
Permanent Datum		Ground Level	
Log Measured From		Kelly Bushing	
Drilling Measured From		Kelly Bushing	
Elevation		4969'	
K.B. 4979'		D.F. 4978'	
G.L. 4969'			
Date		13-MAR-2017	
Run Number		One	
Depth Driller		8170 FT	
Depth Logger		7530 FT	
Bottom Logged Interval		7525 FT	
Top Log Interval		Surface	
Open Hole Size		7.875"	
Type Fluid		Water	
Density / Viscosity		8.34 lb/gal	
Max. Recorded Temp.		233.9 °F	
Estimated Cement Top		---	
Time Well Ready		ROA	
Time Logger on Bottom		13:37	
Equipment Number		HD-0343	
Location		Fort Lupton, CO	
Recorded By		W.Wacker	
Witnessed By		Luis Morales	
Borehole Record		Tubing Record	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size (in)	
Wgt (lbs/Ft)		Grade	
Top		Bottom	
Surface Casing		8 5/8	
Intermediate #1		5 1/2	
Intermediate #2		5 1/2	
Liner		5 1/2	

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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 Kelly Bushing at 10 FT
Log ran from CIBP at 7530 FT to surface
Log ran with 0 PSI surface induced pressure
Logging tools were clean and free of any debris upon completion of operations

Thank you for choosing Reliance Oilfield Services, LLC!!

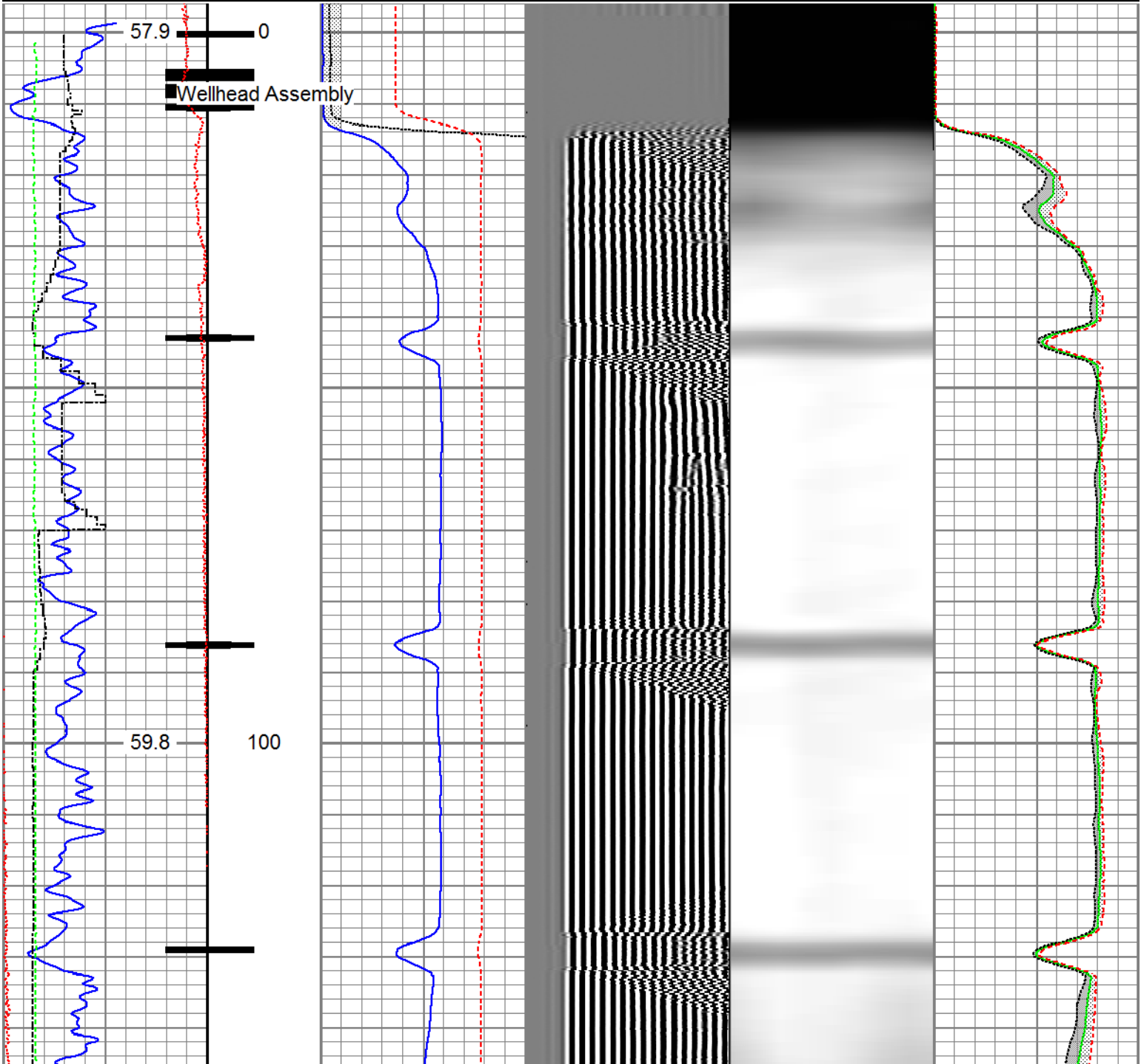


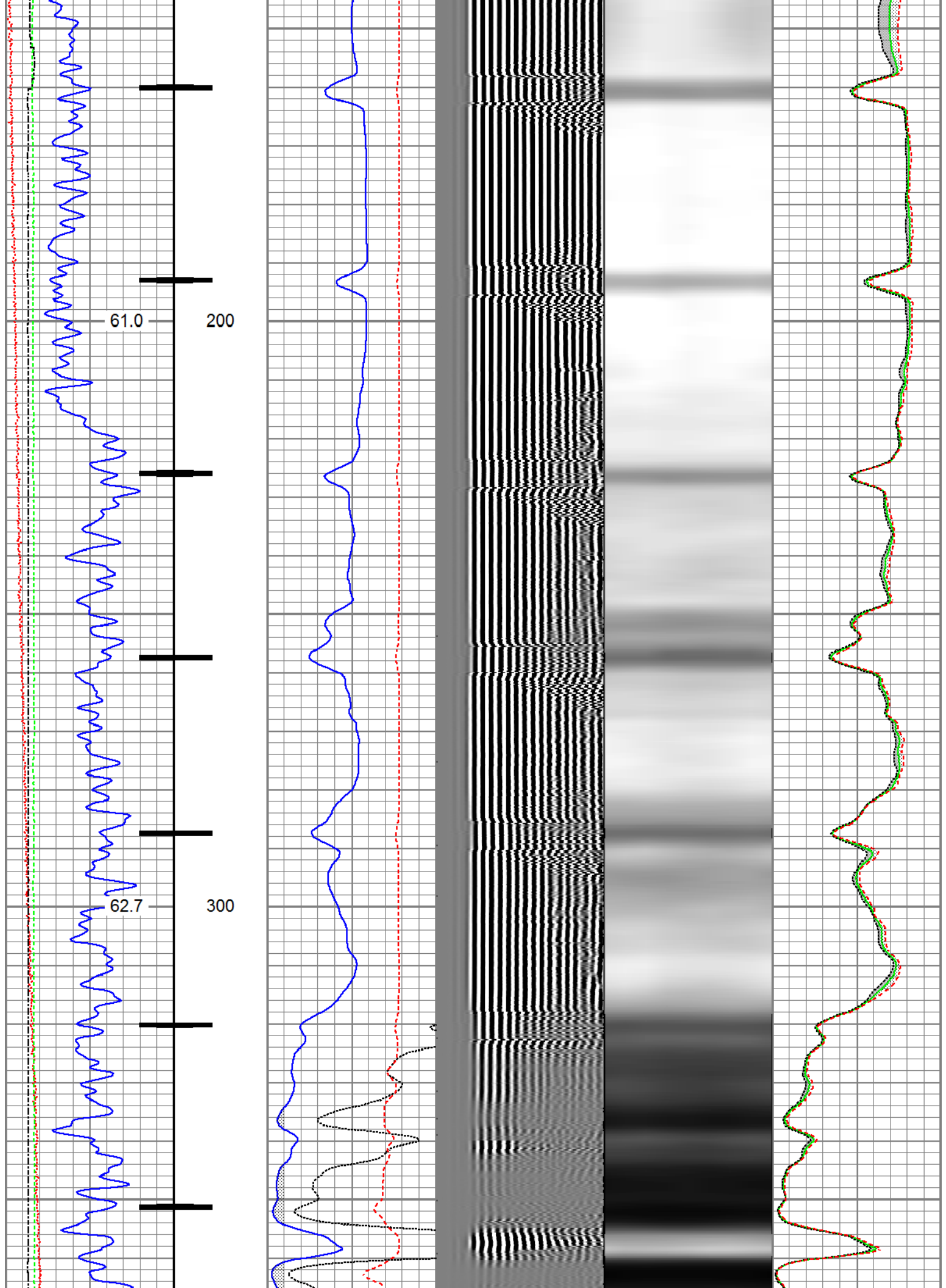
Main Pass

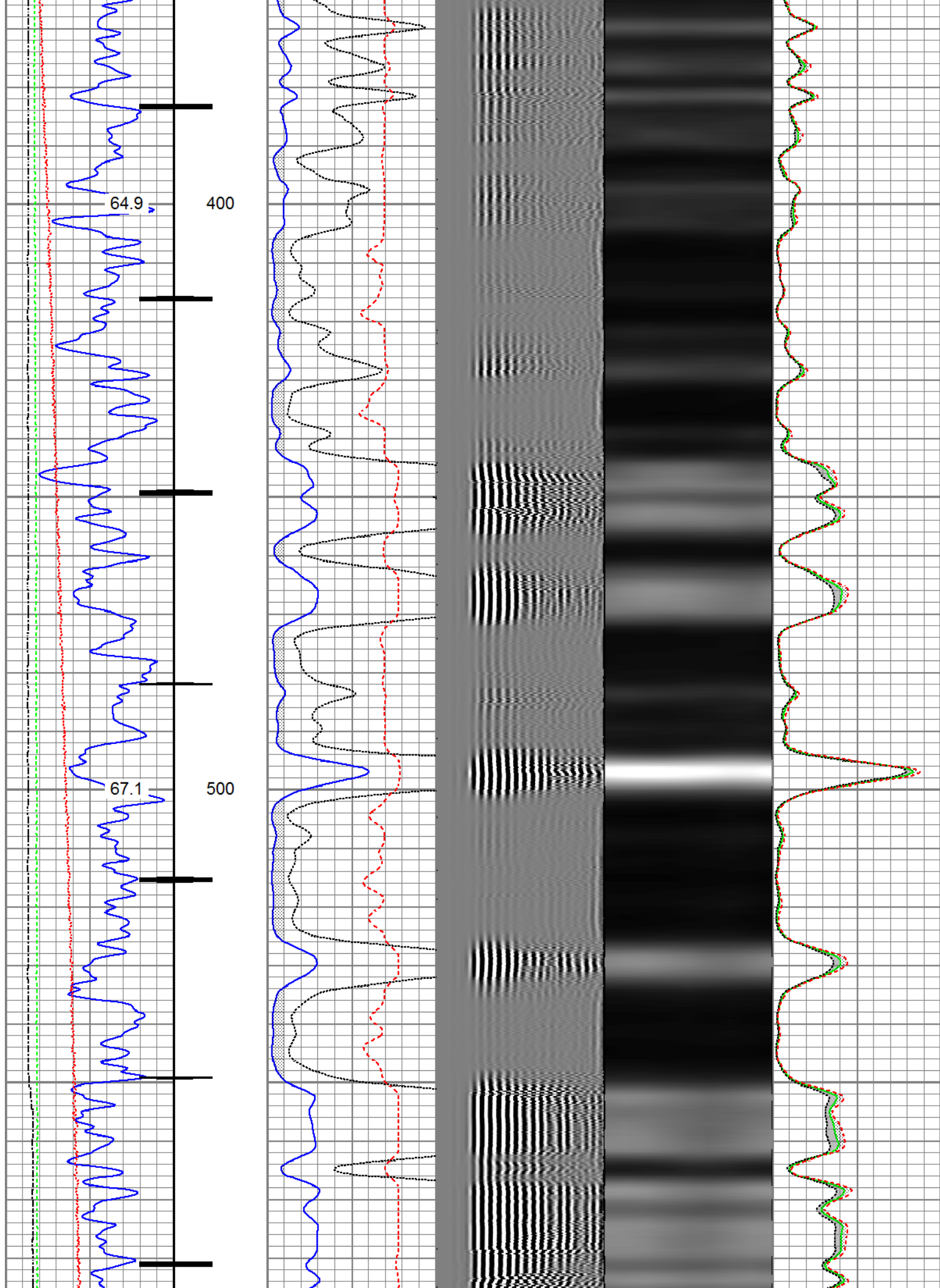
Recorded with 0 PSI Surface Induced Pressure

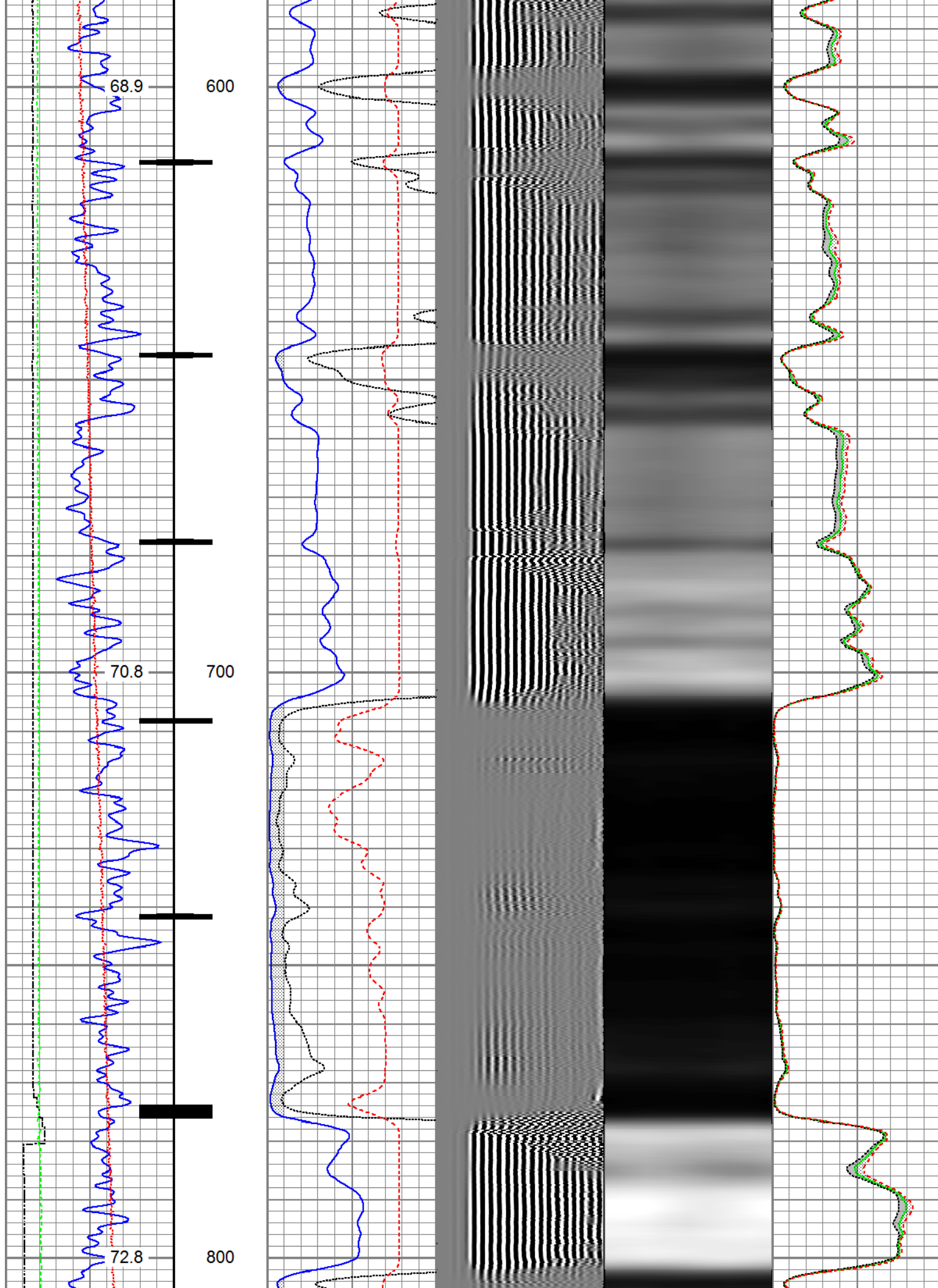
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Dataset Pathname	goodmain
Presentation Format	ros_radri
Dataset Creation	Mon Mar 13 13:34:19 2017
Charted by	Depth in Feet scaled 1:240

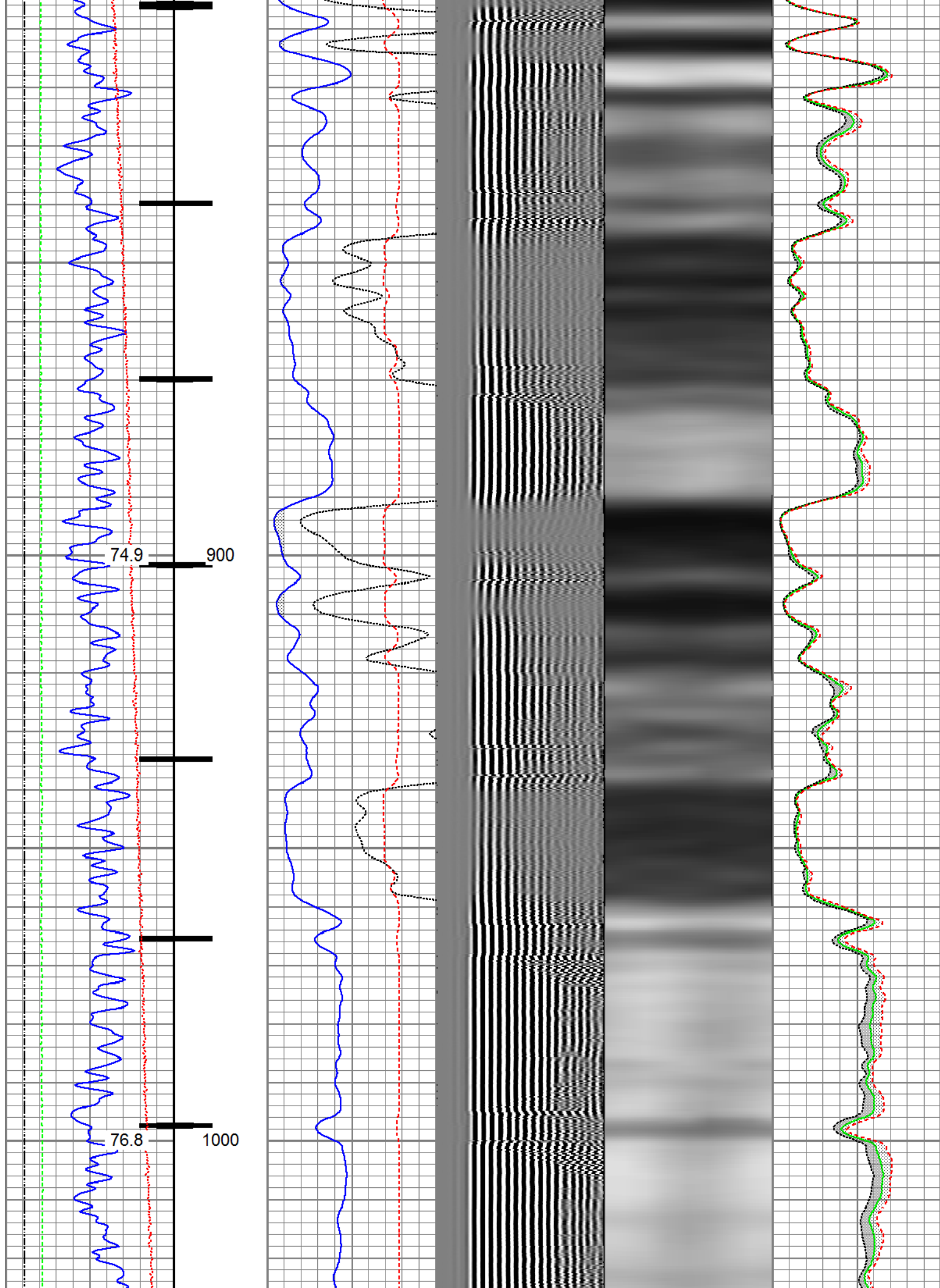
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
	0 (mV) 20			0 100
Temperature	3' Travel Time			Maximum Amplitude
0 (degF) 20	650 (usec) 150			0 100
Line Speed				
-150 (ft/min)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

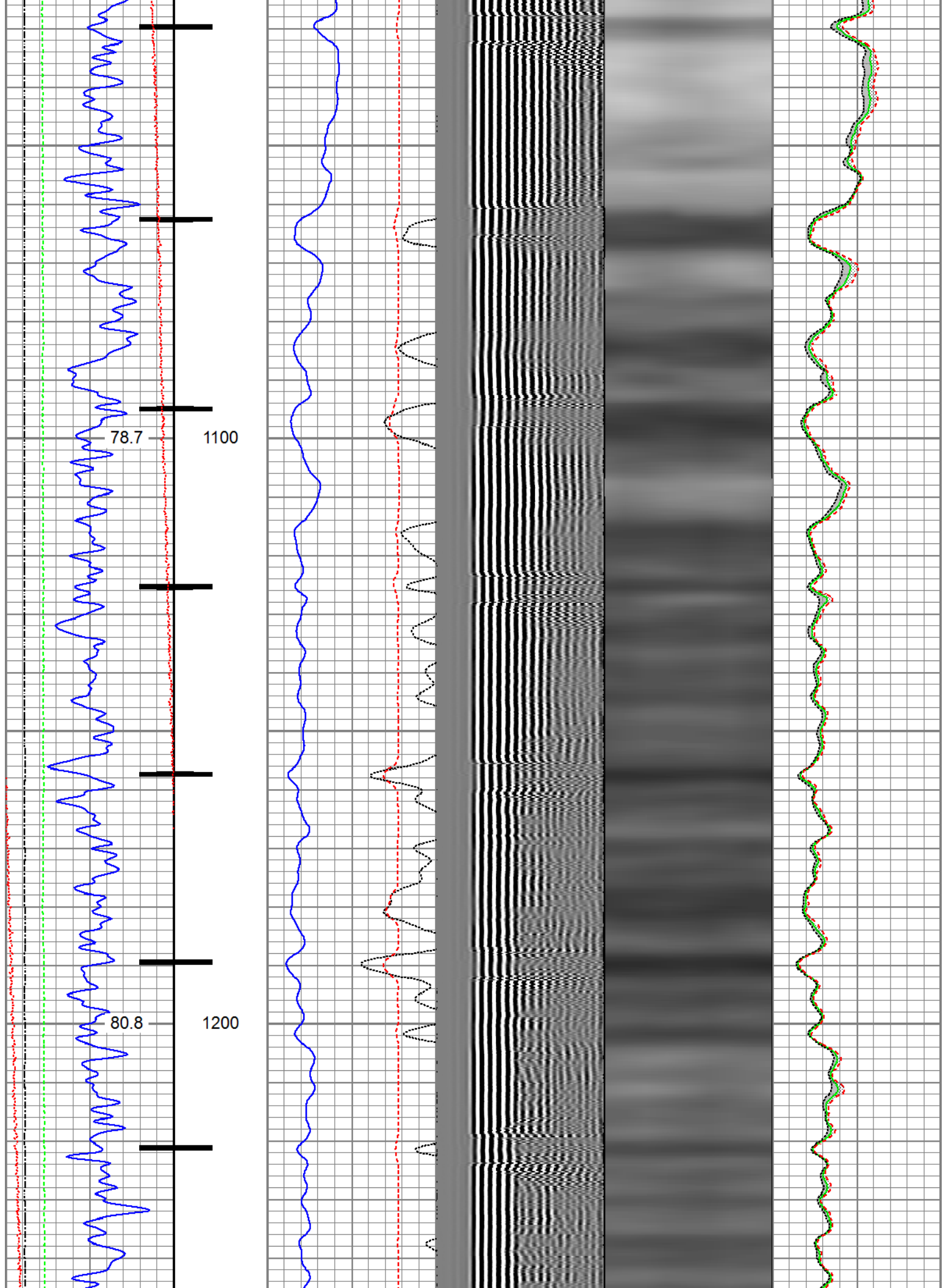


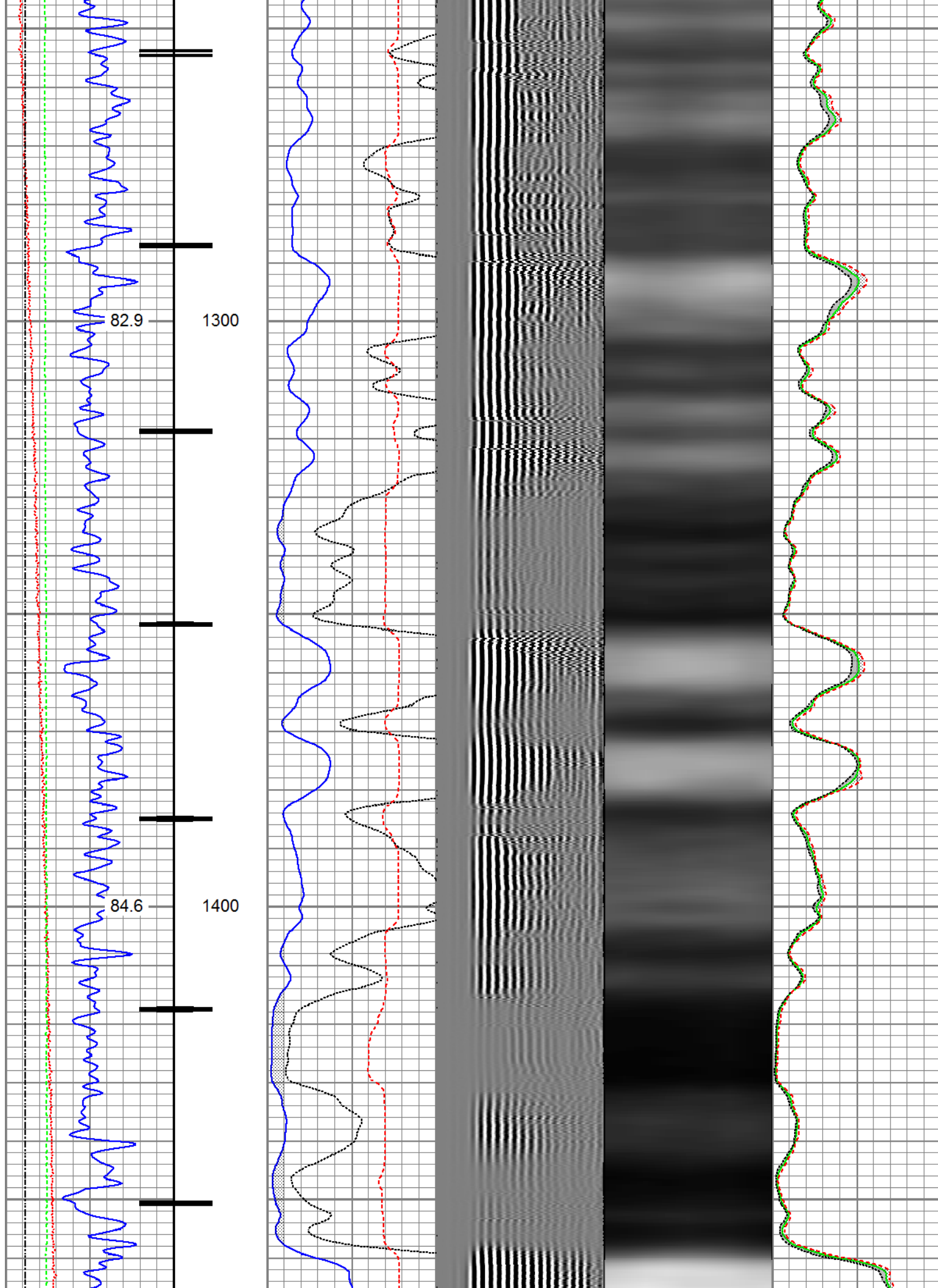


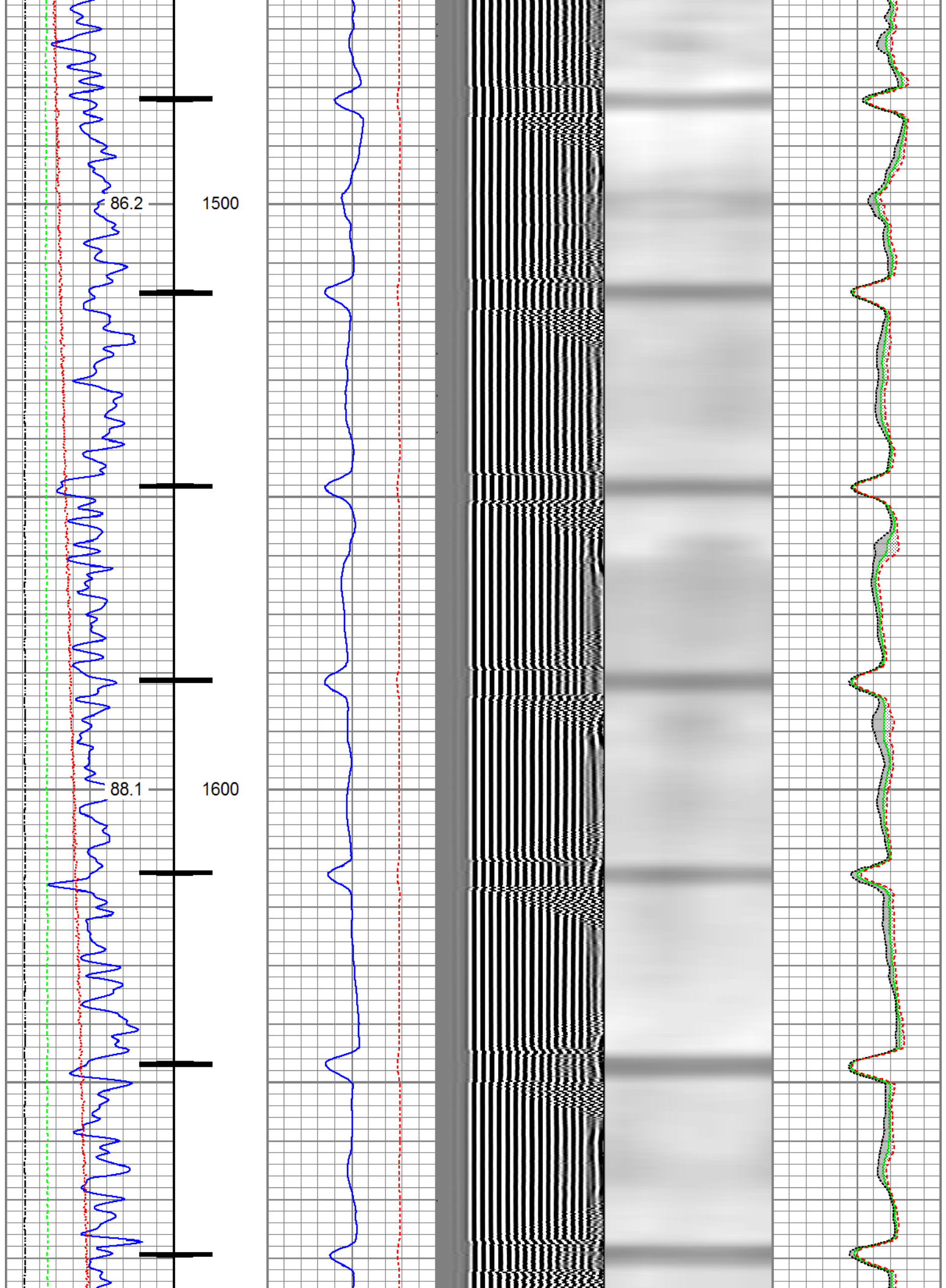


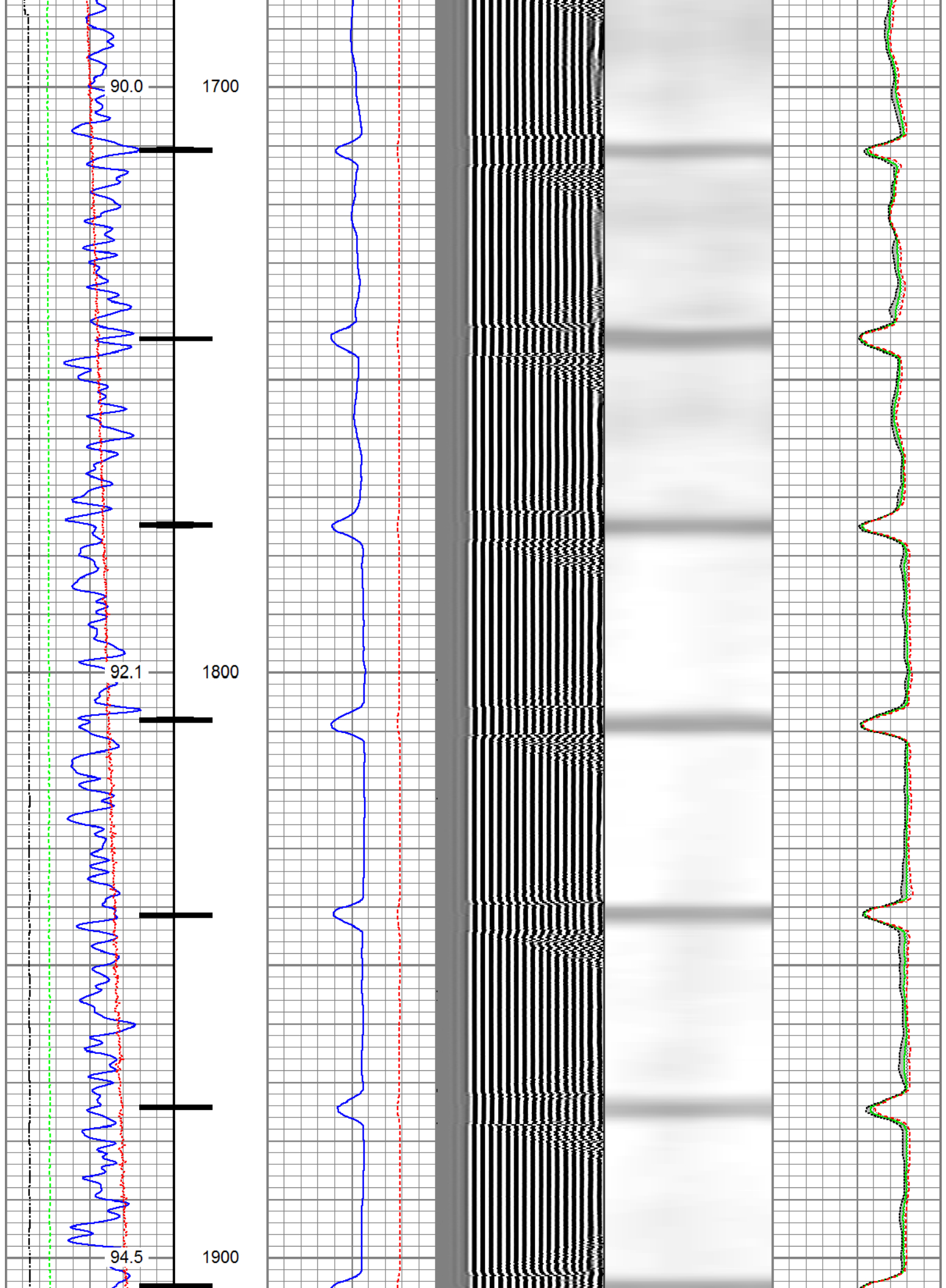


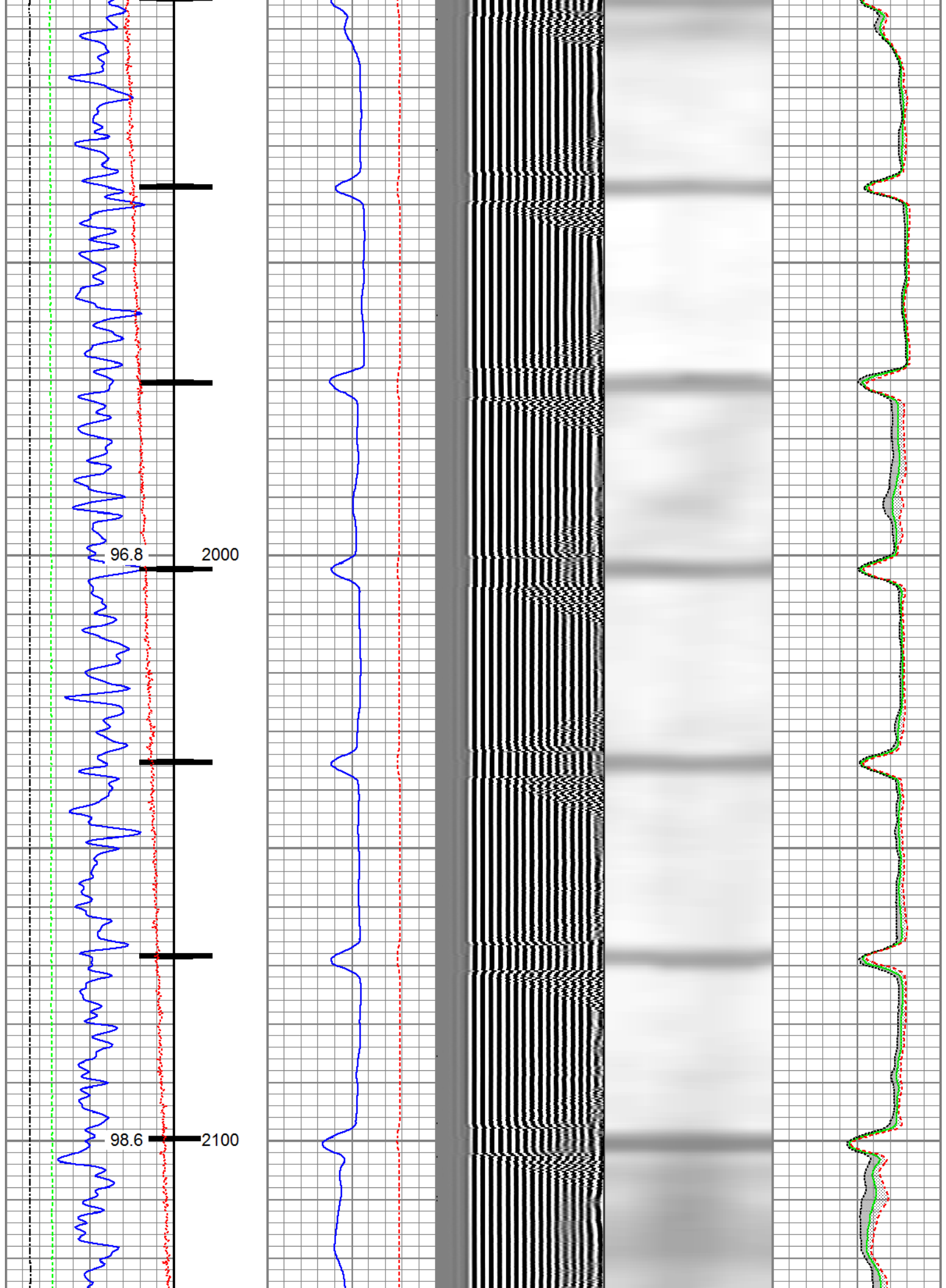


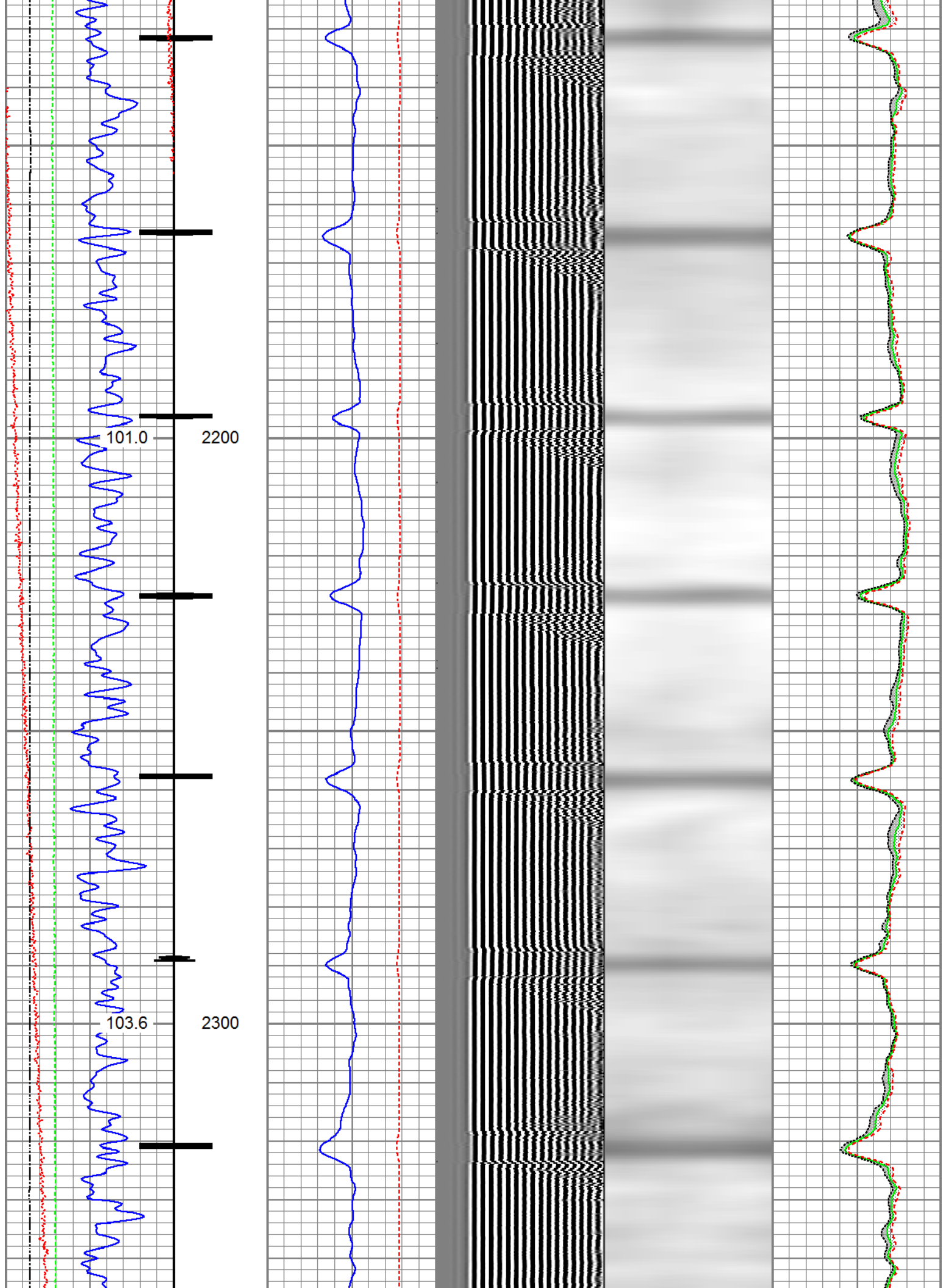


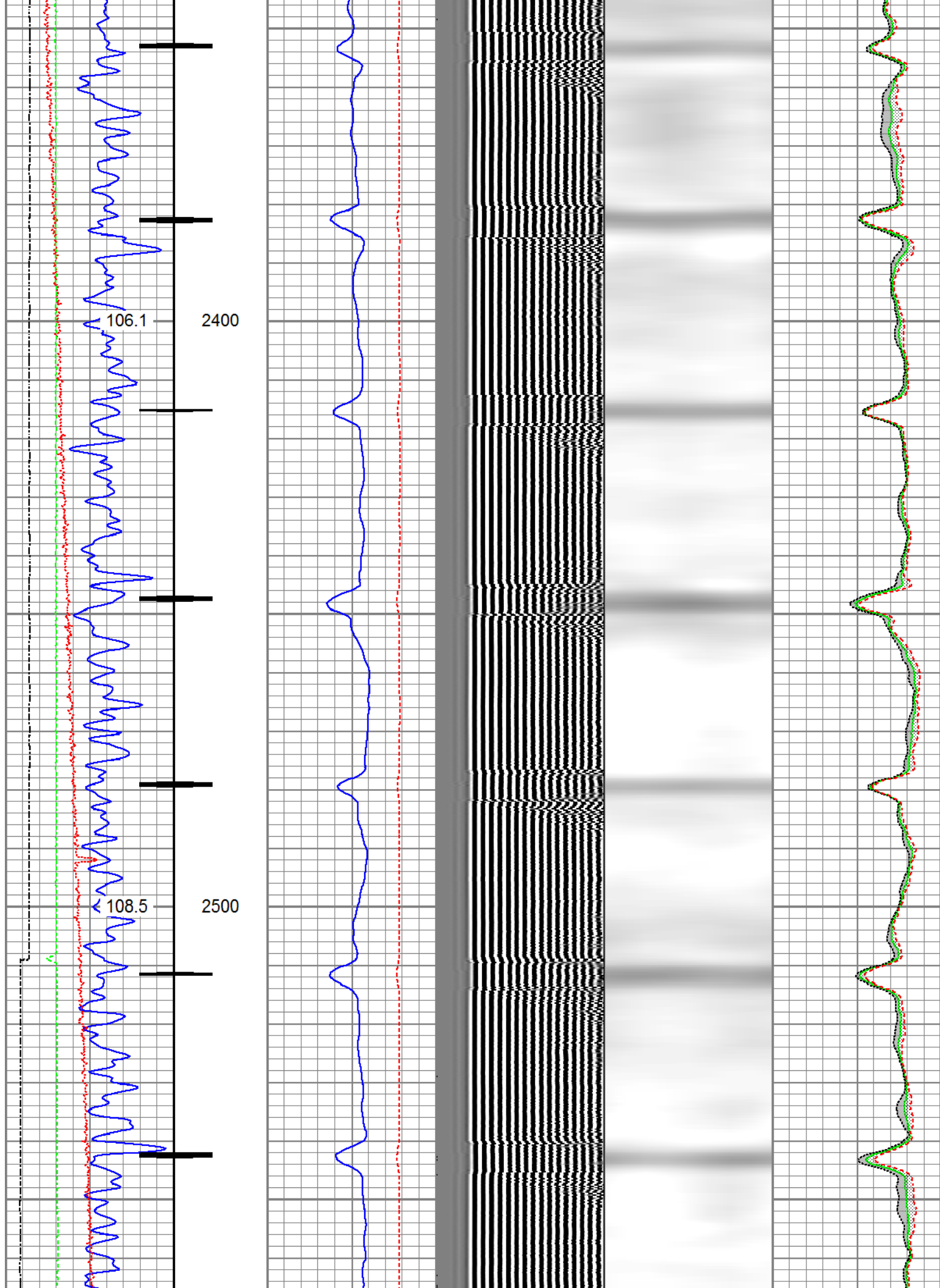


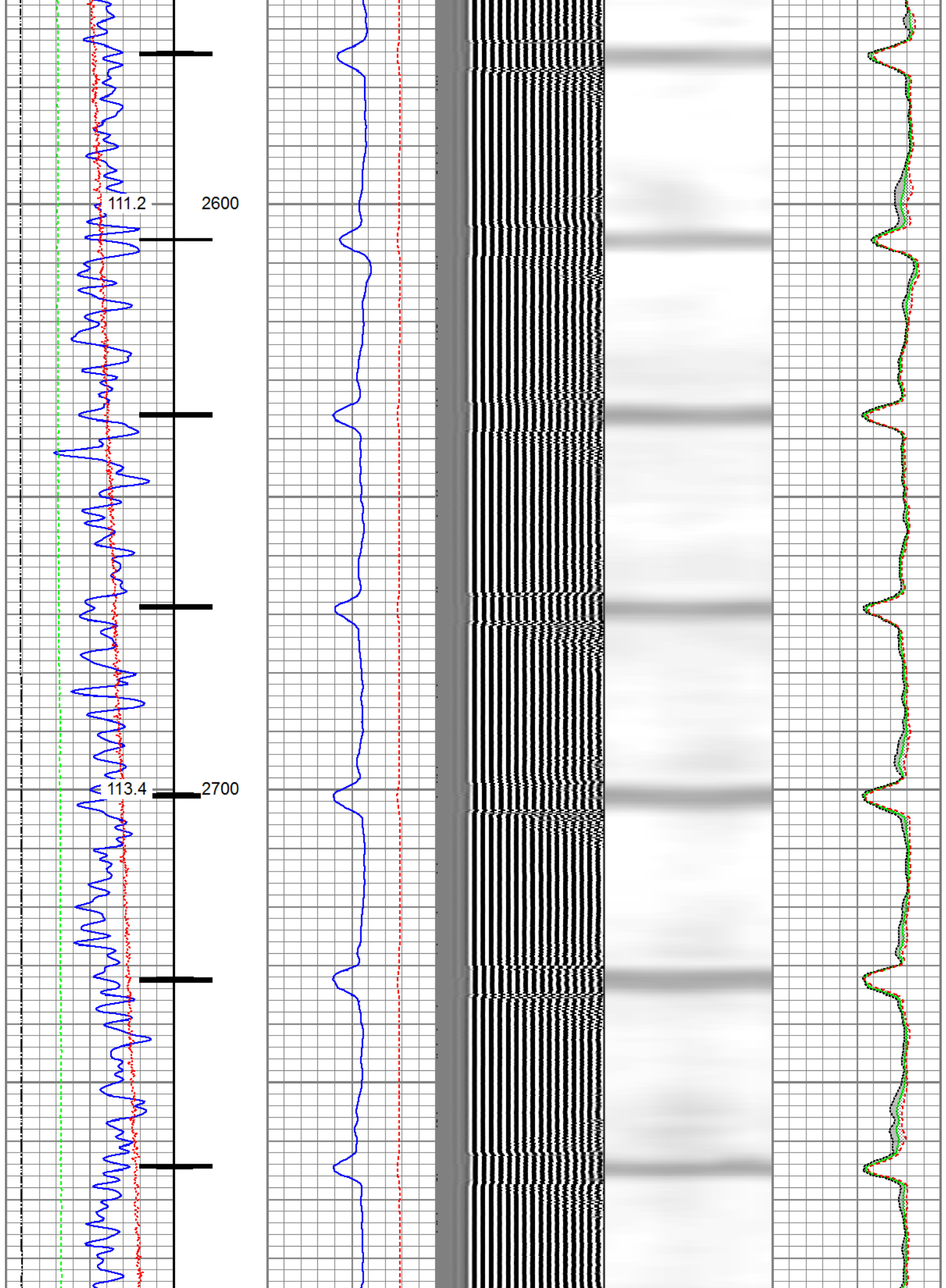


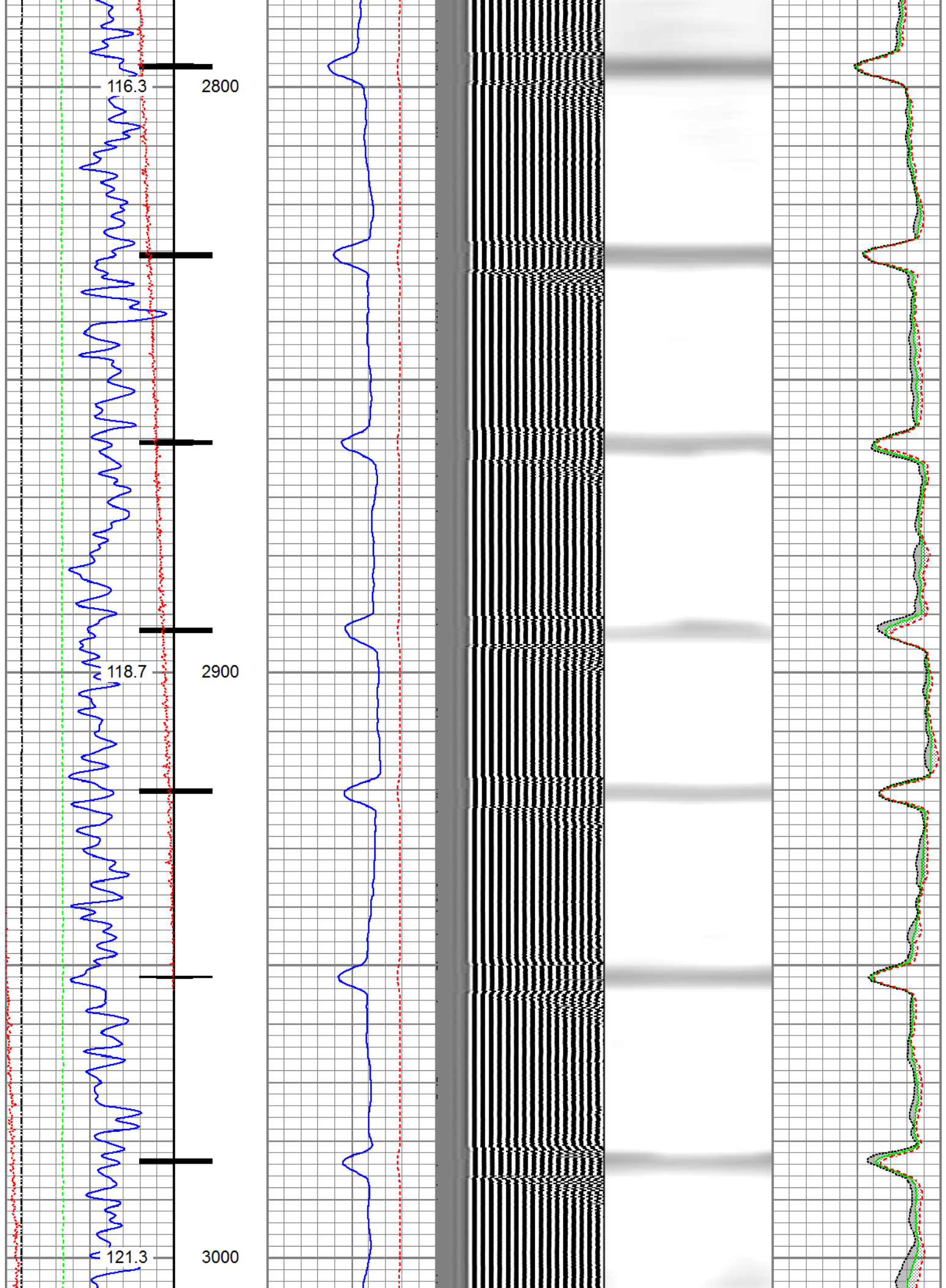


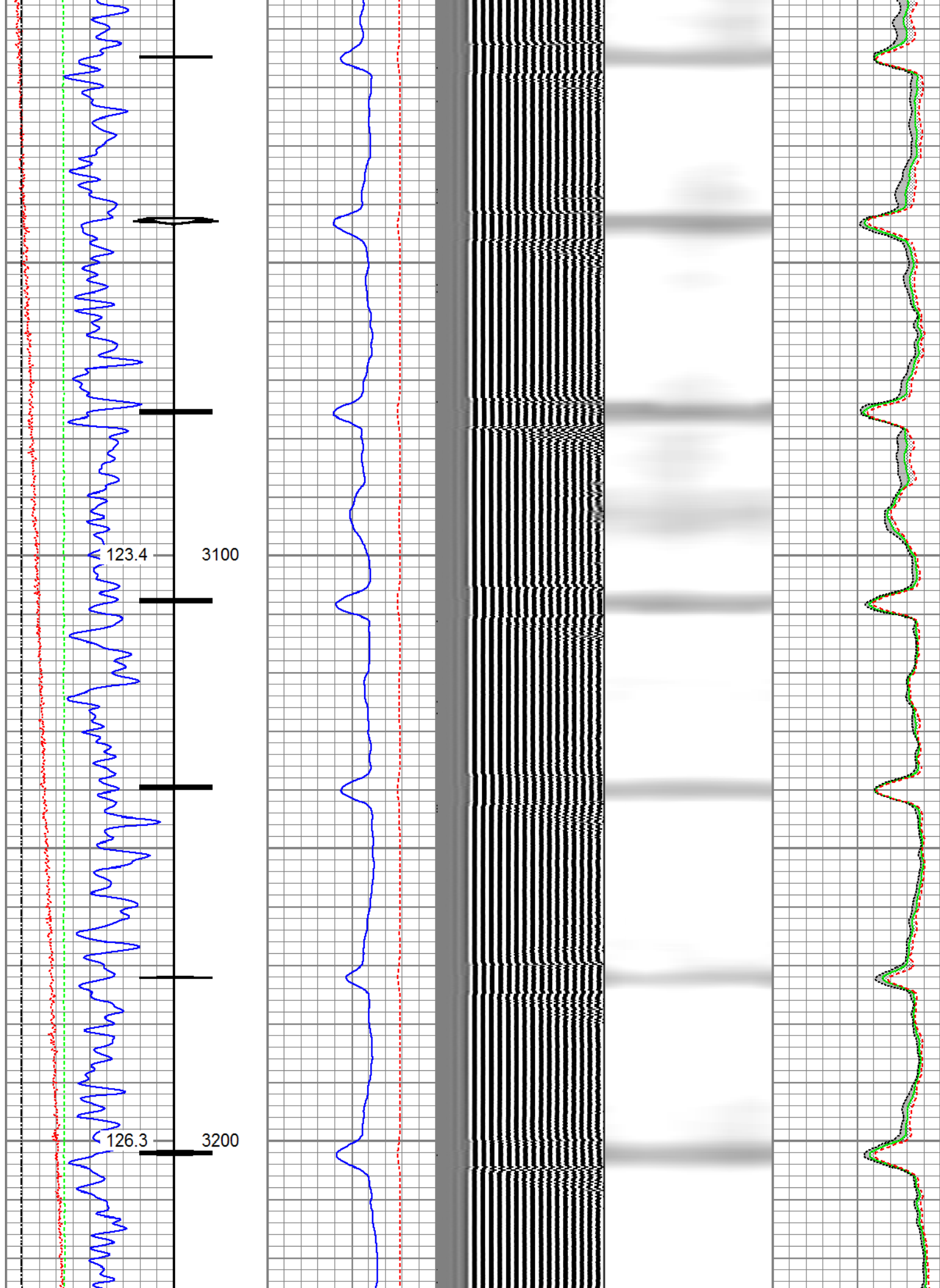


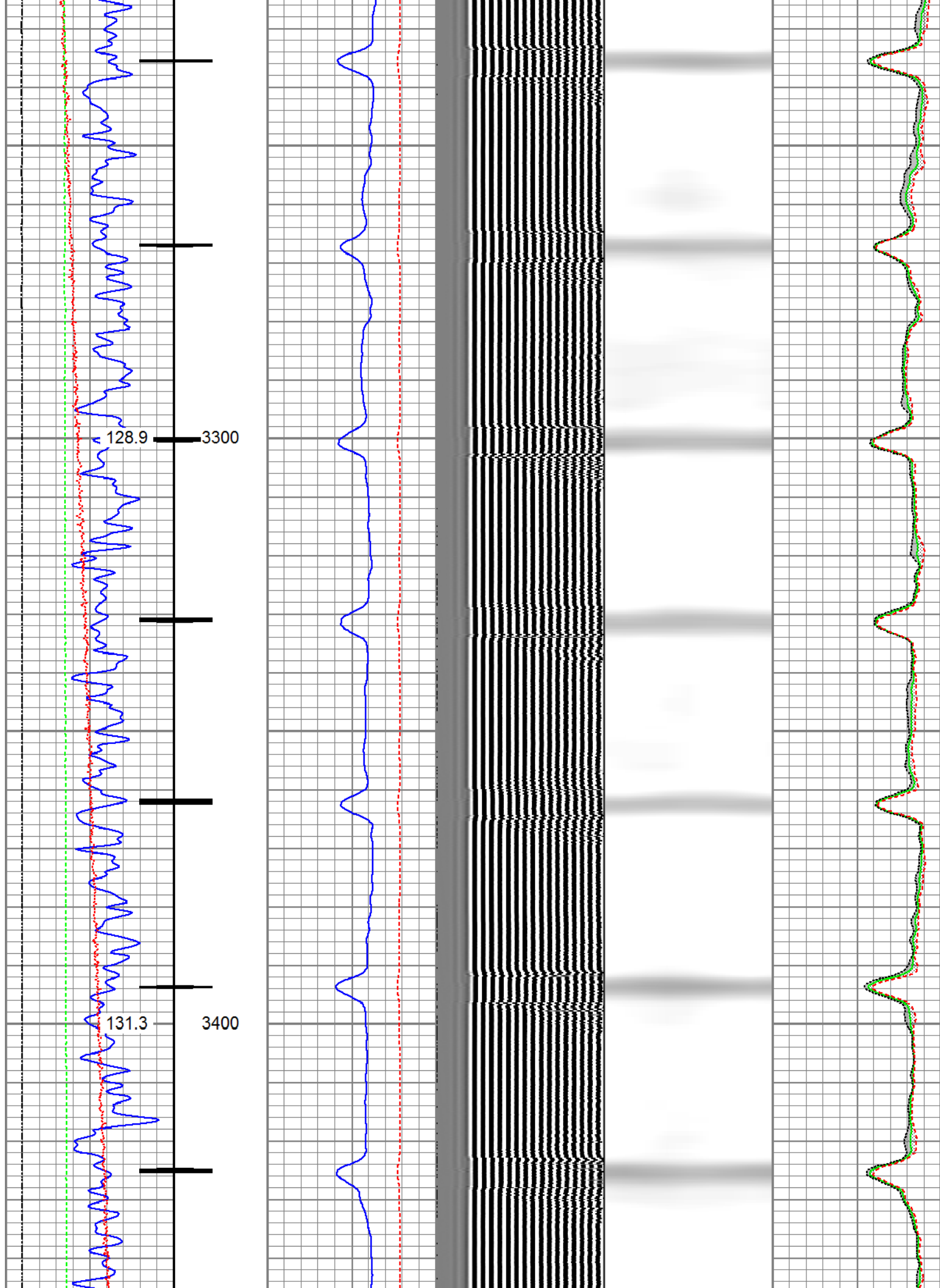


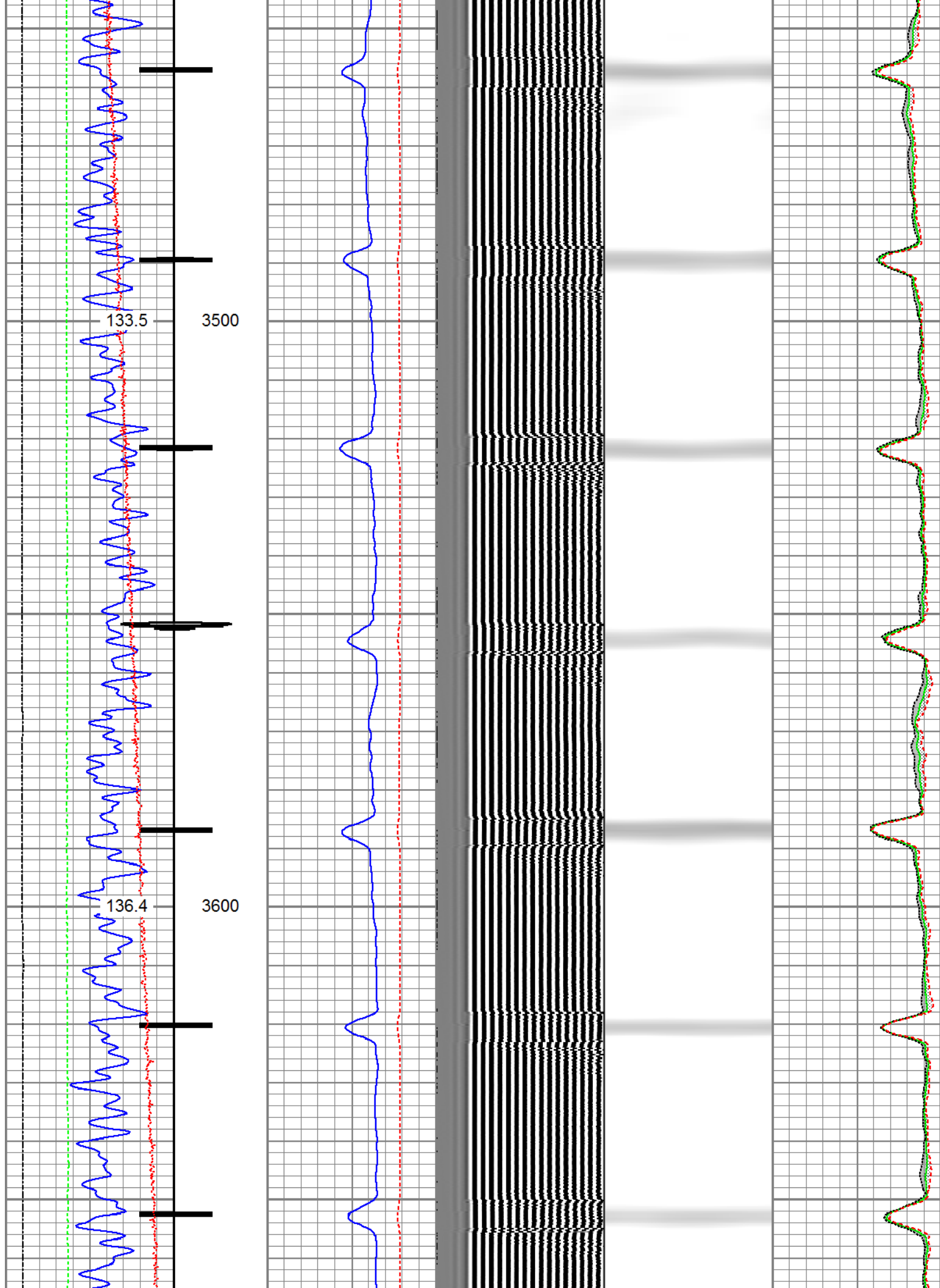


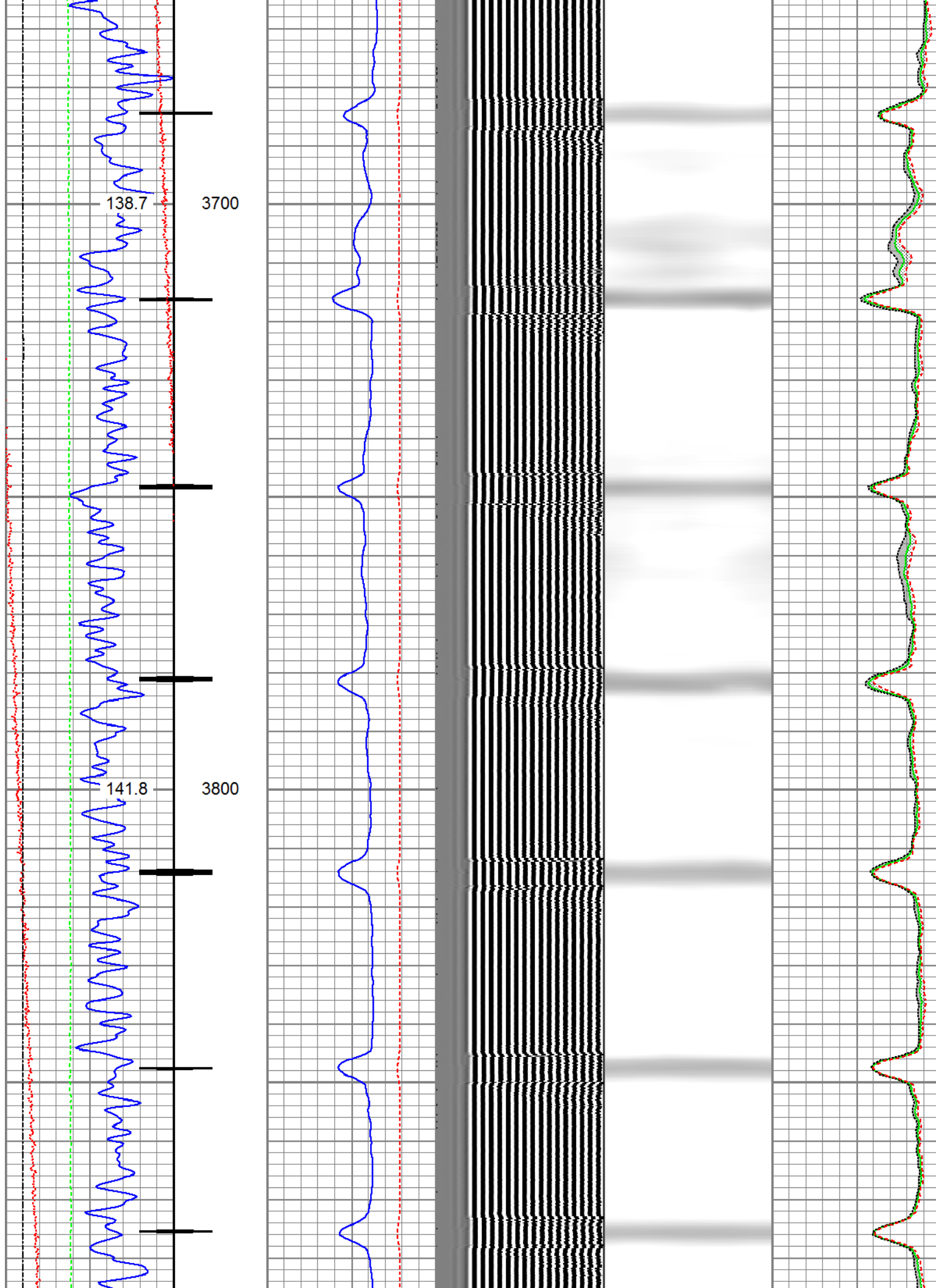


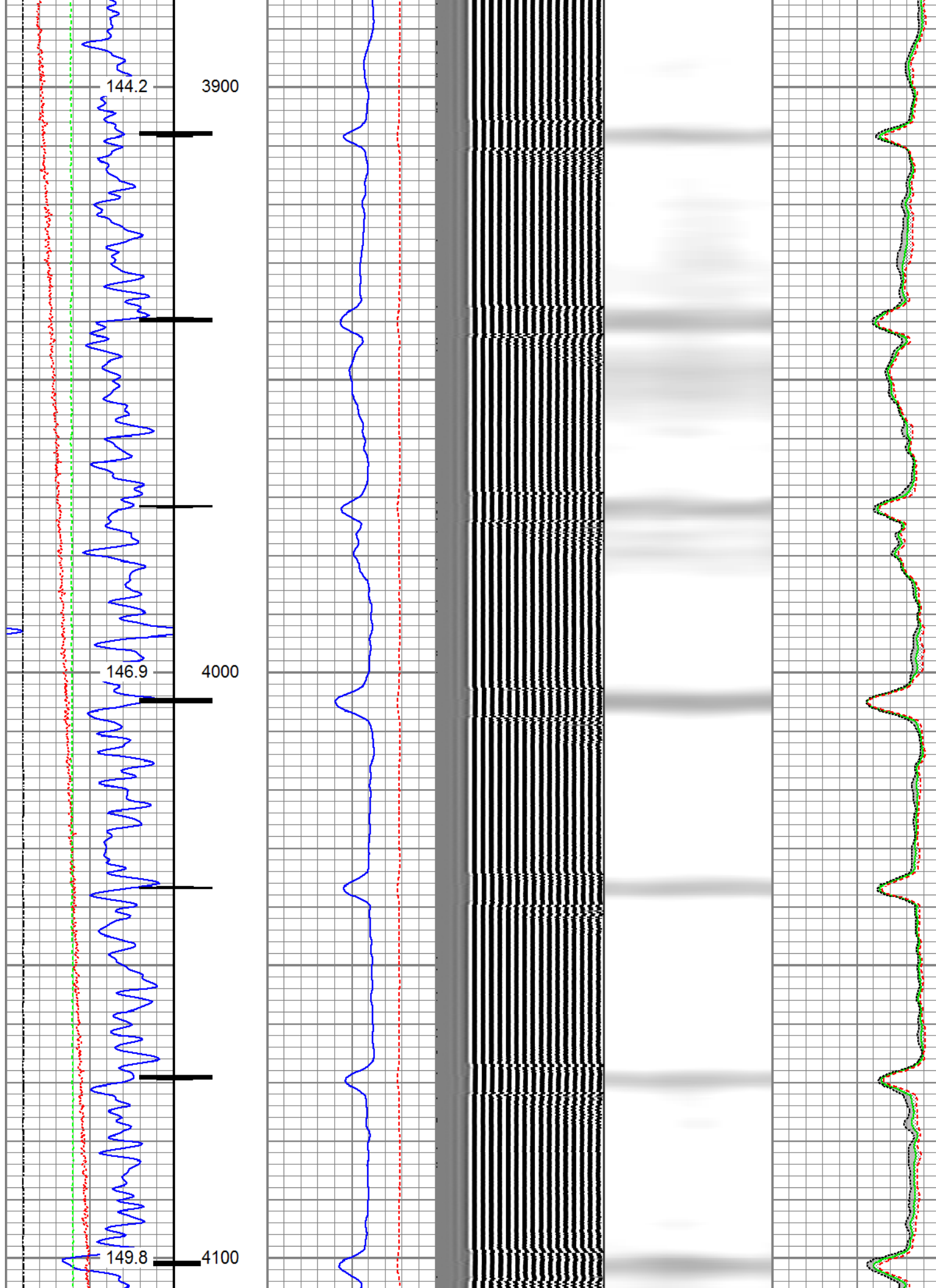


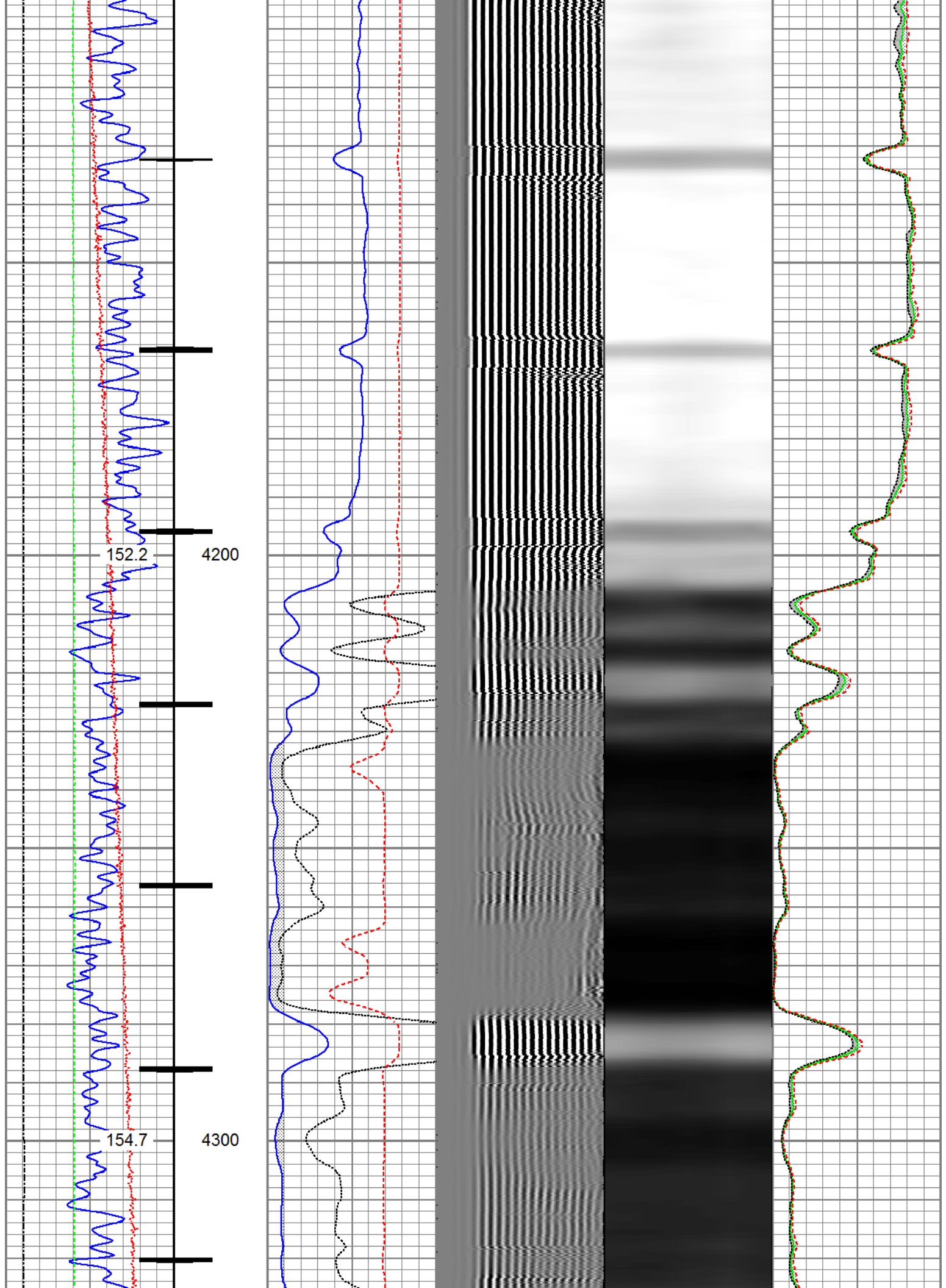


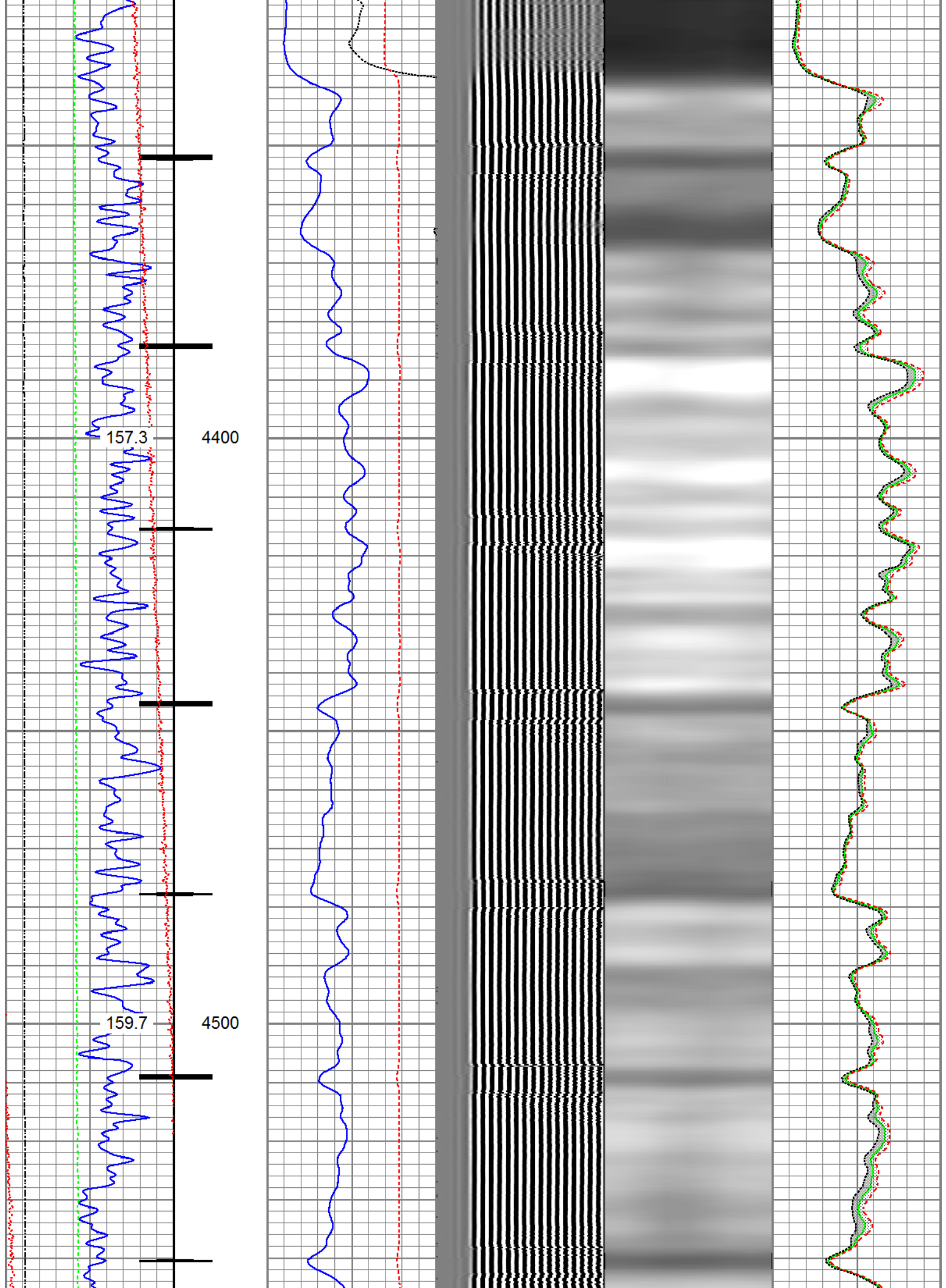


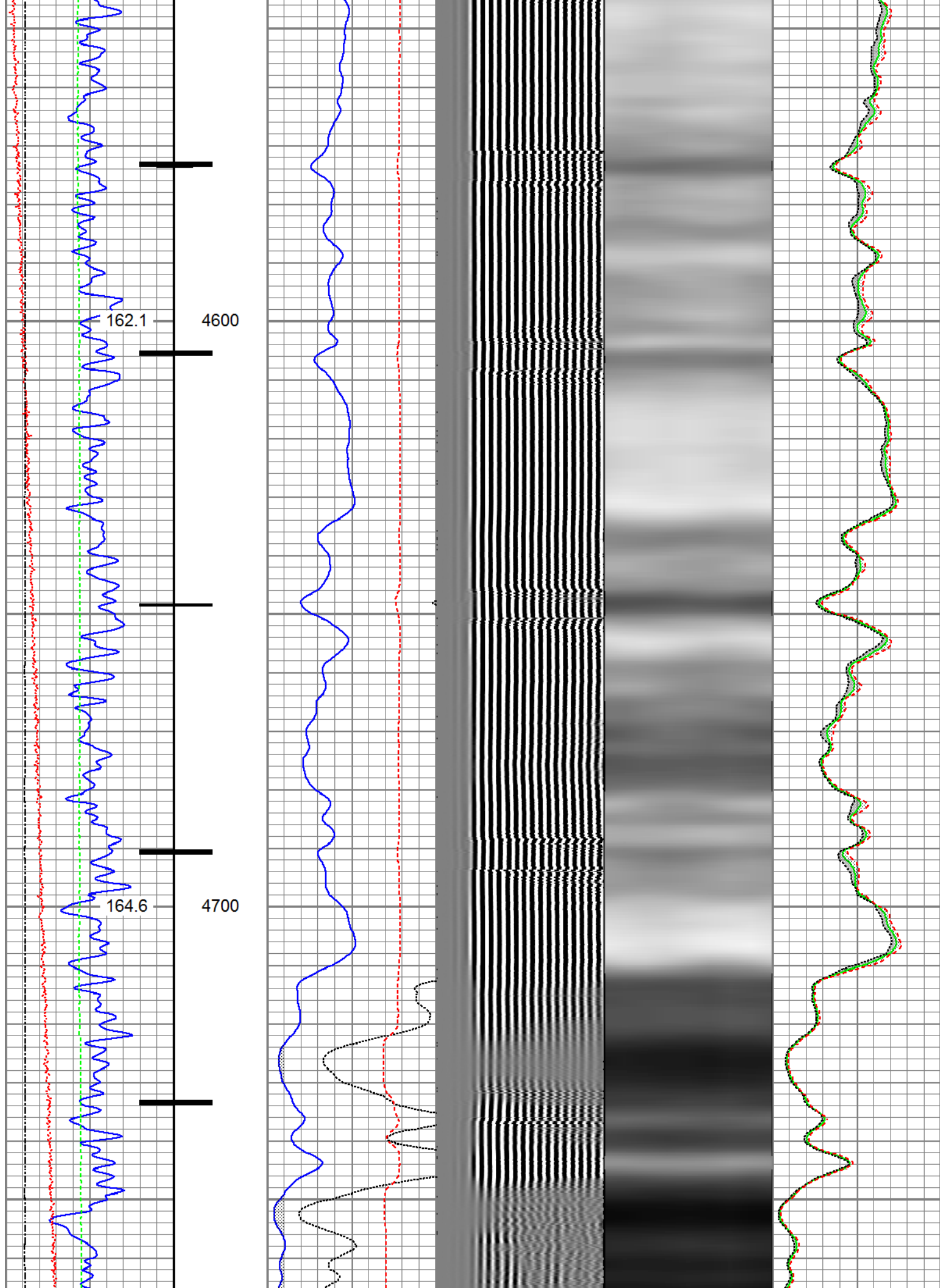


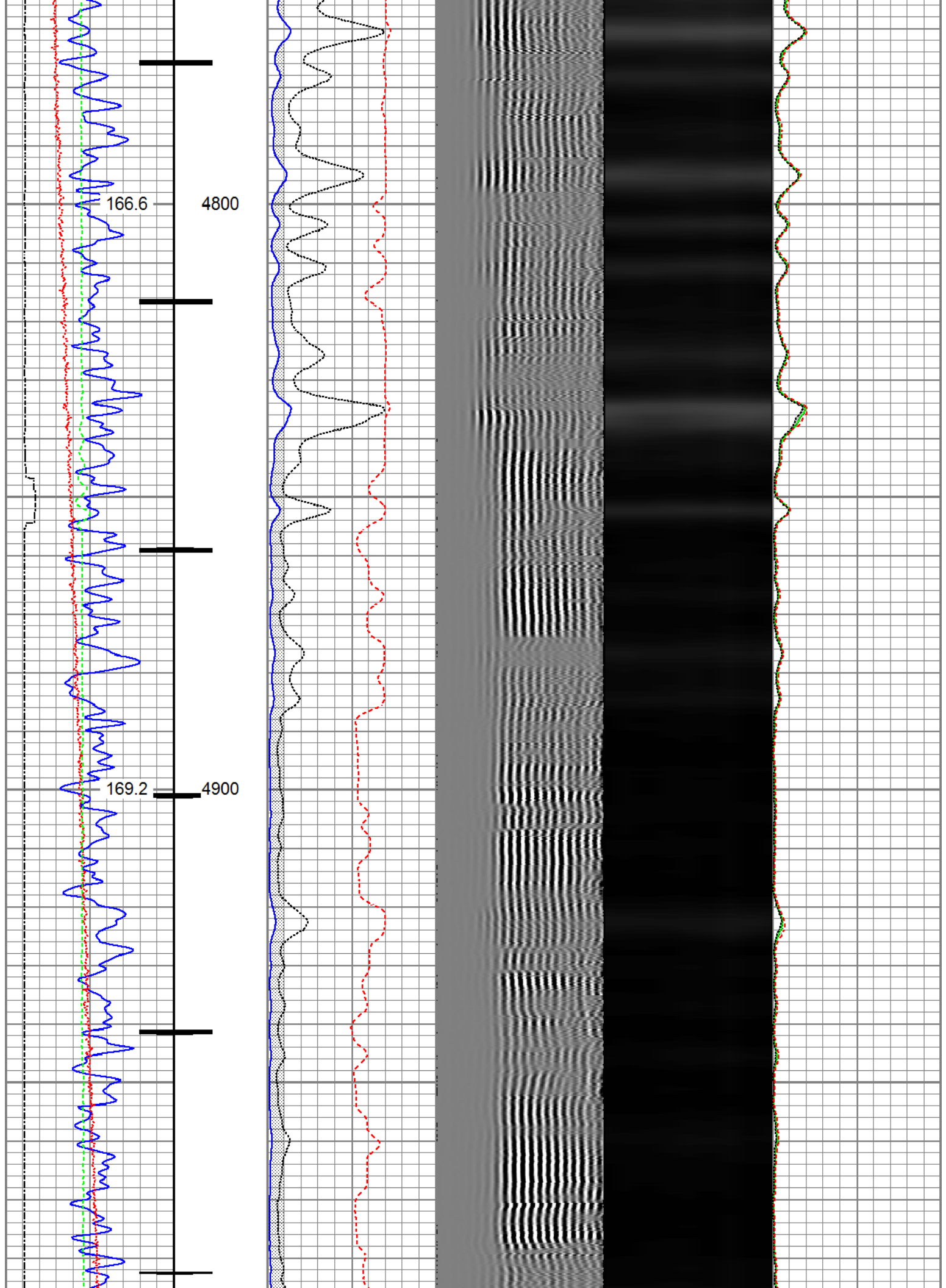


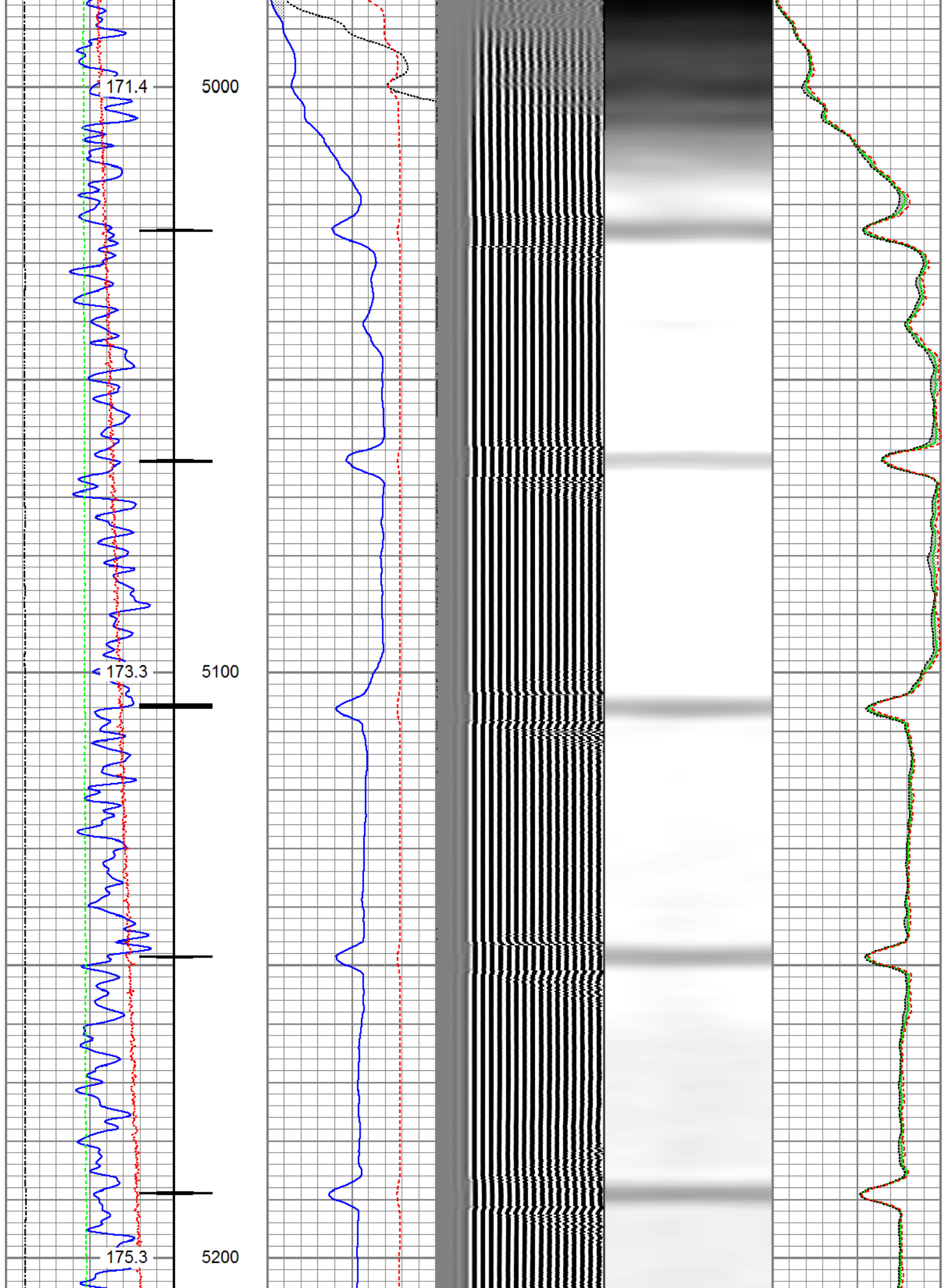


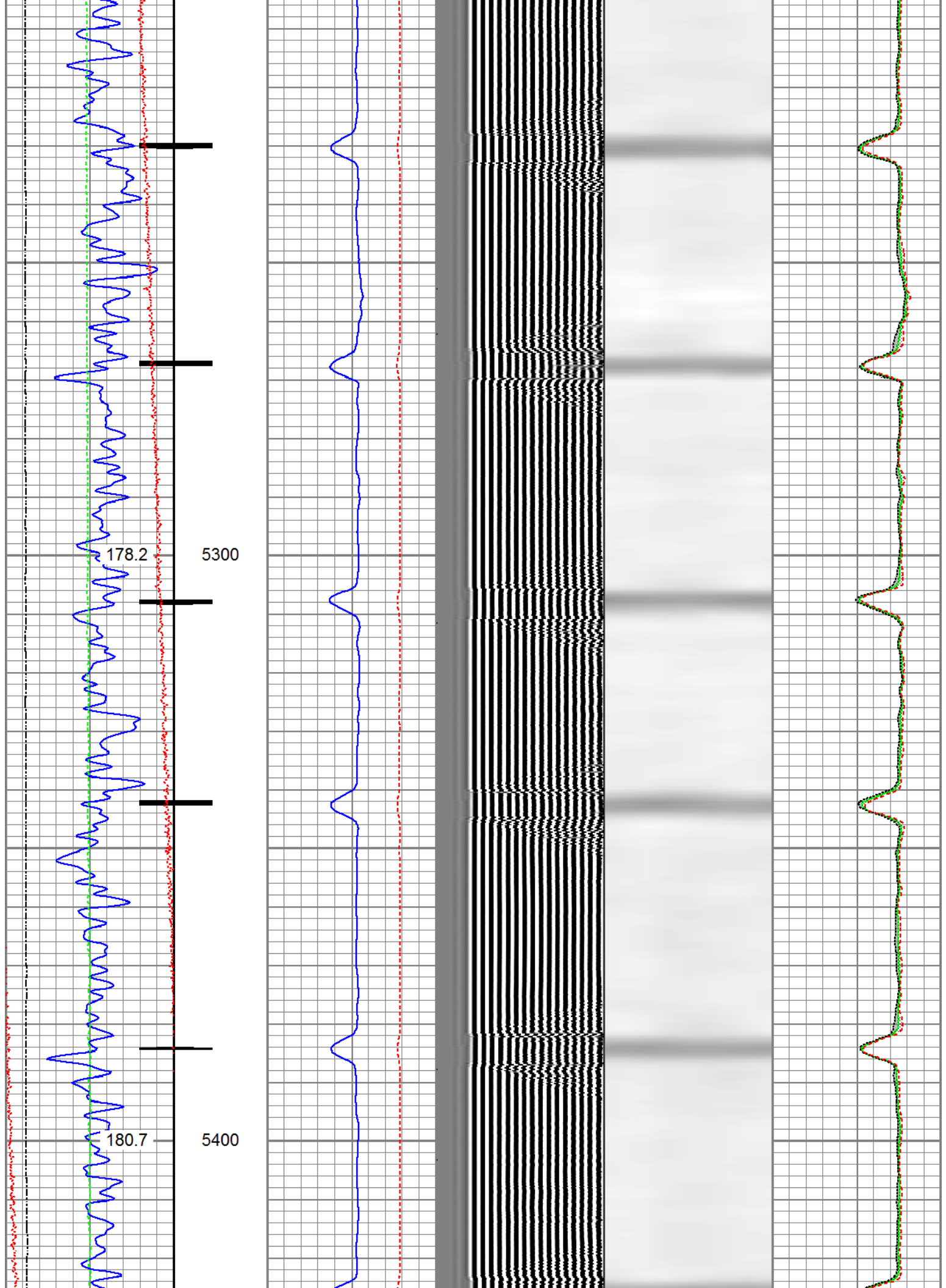


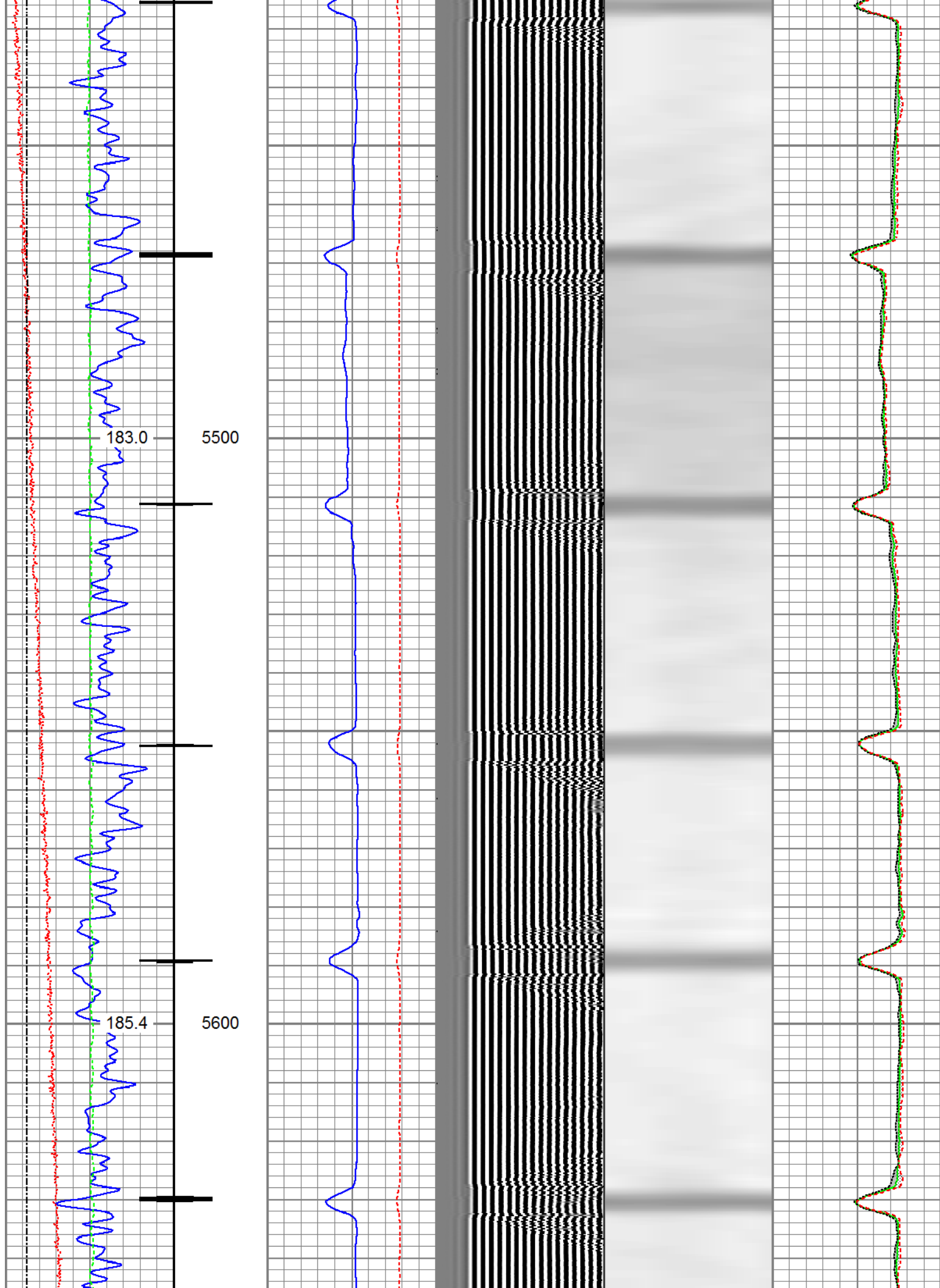


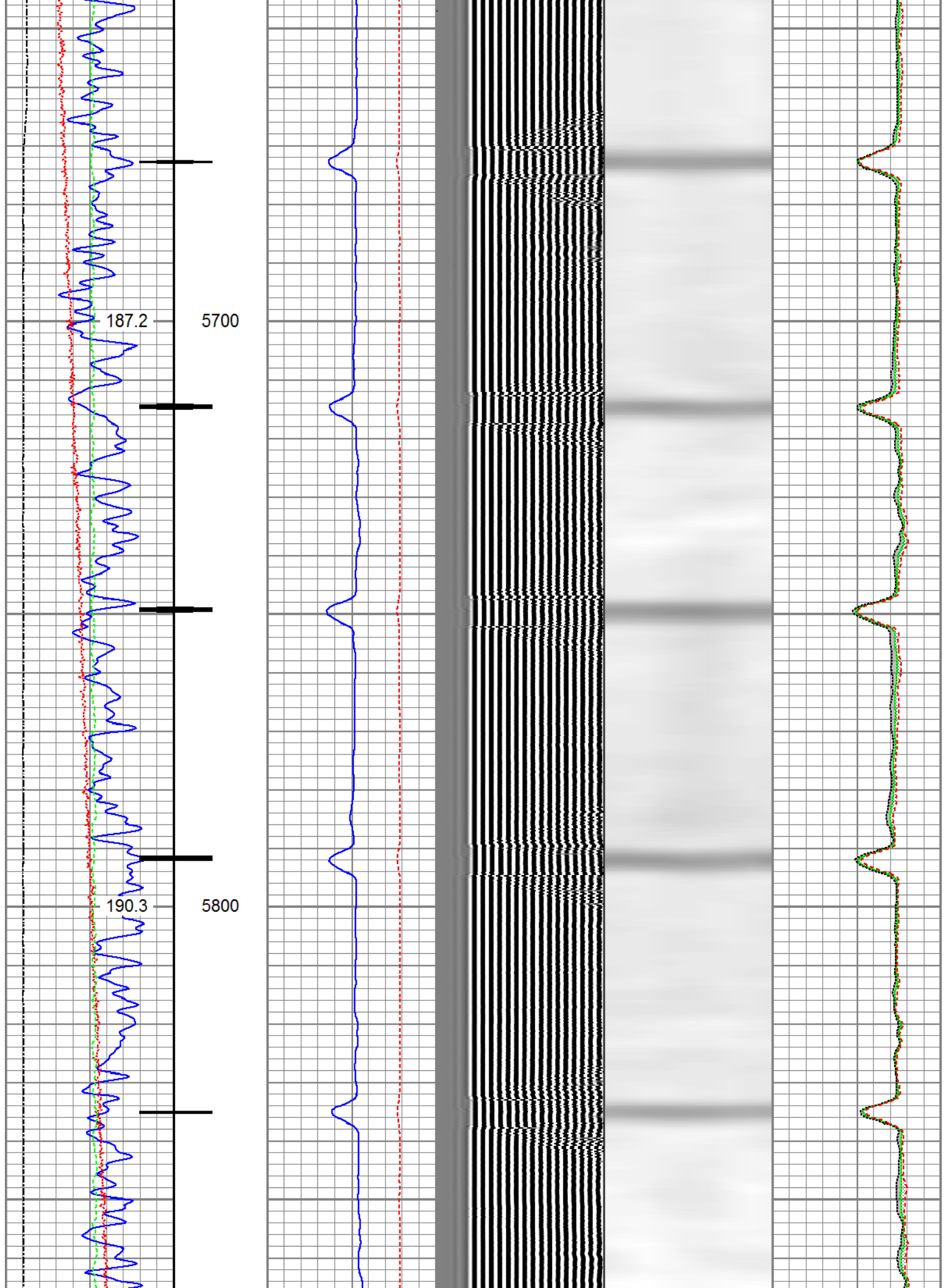


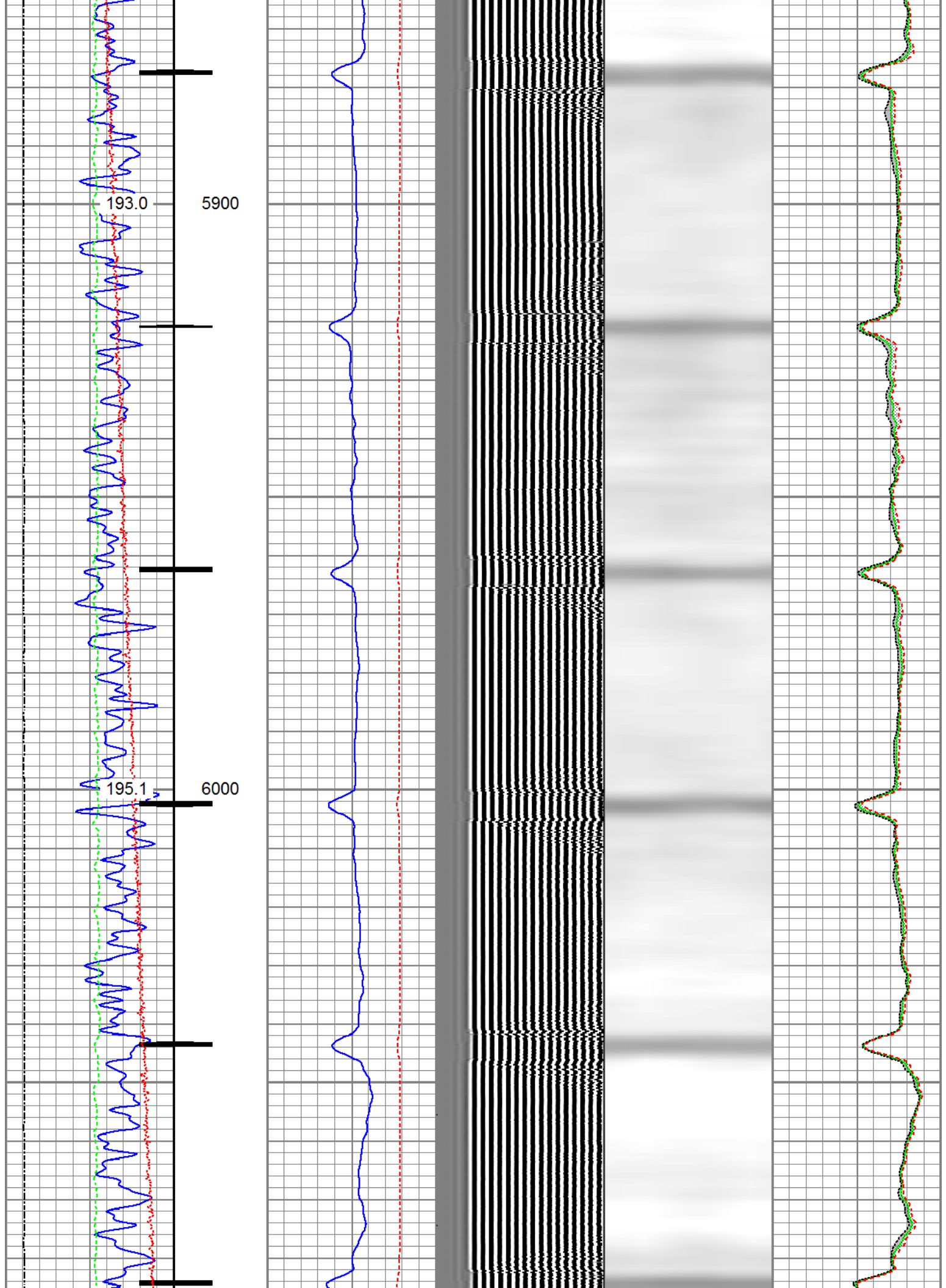


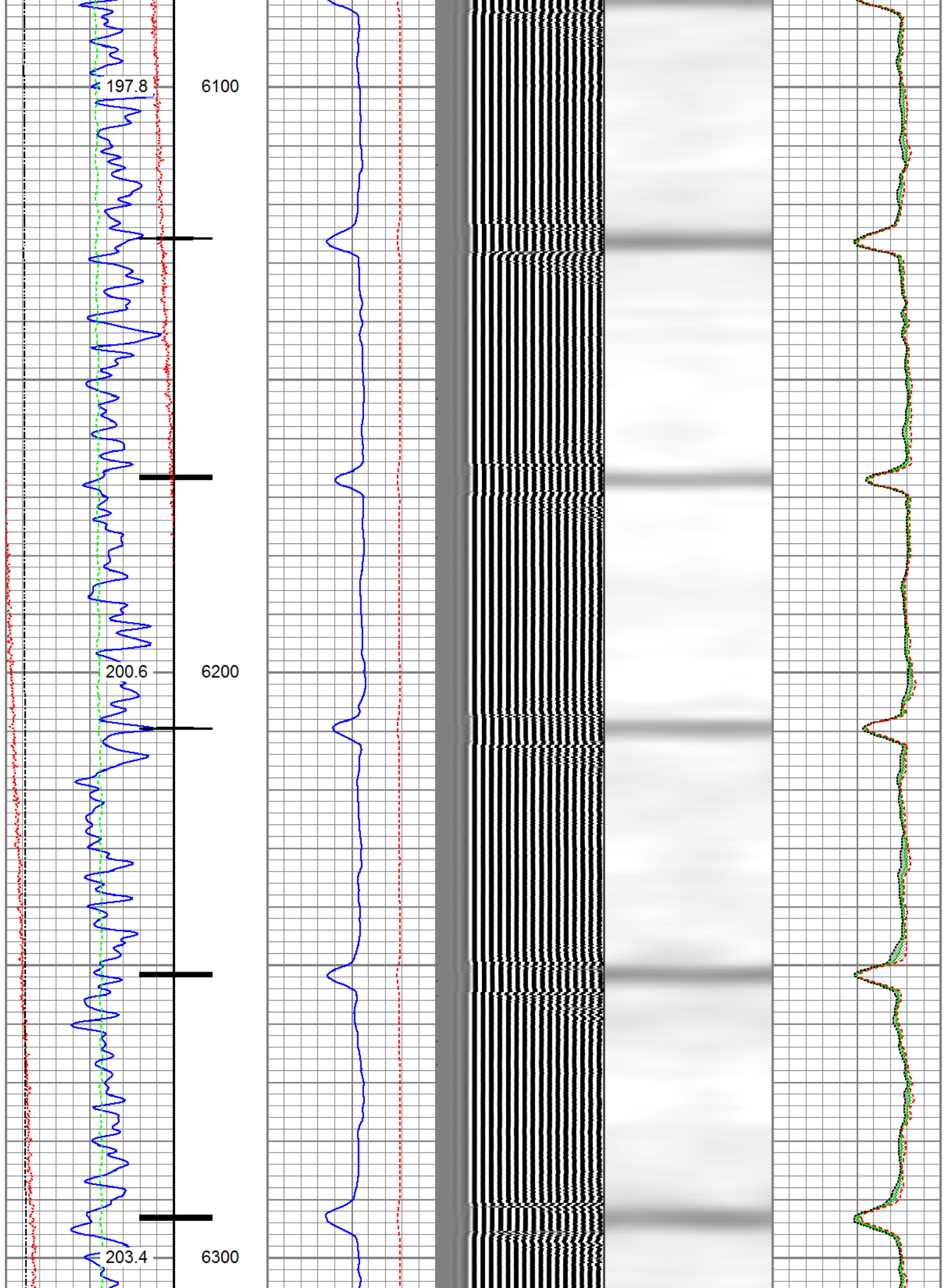


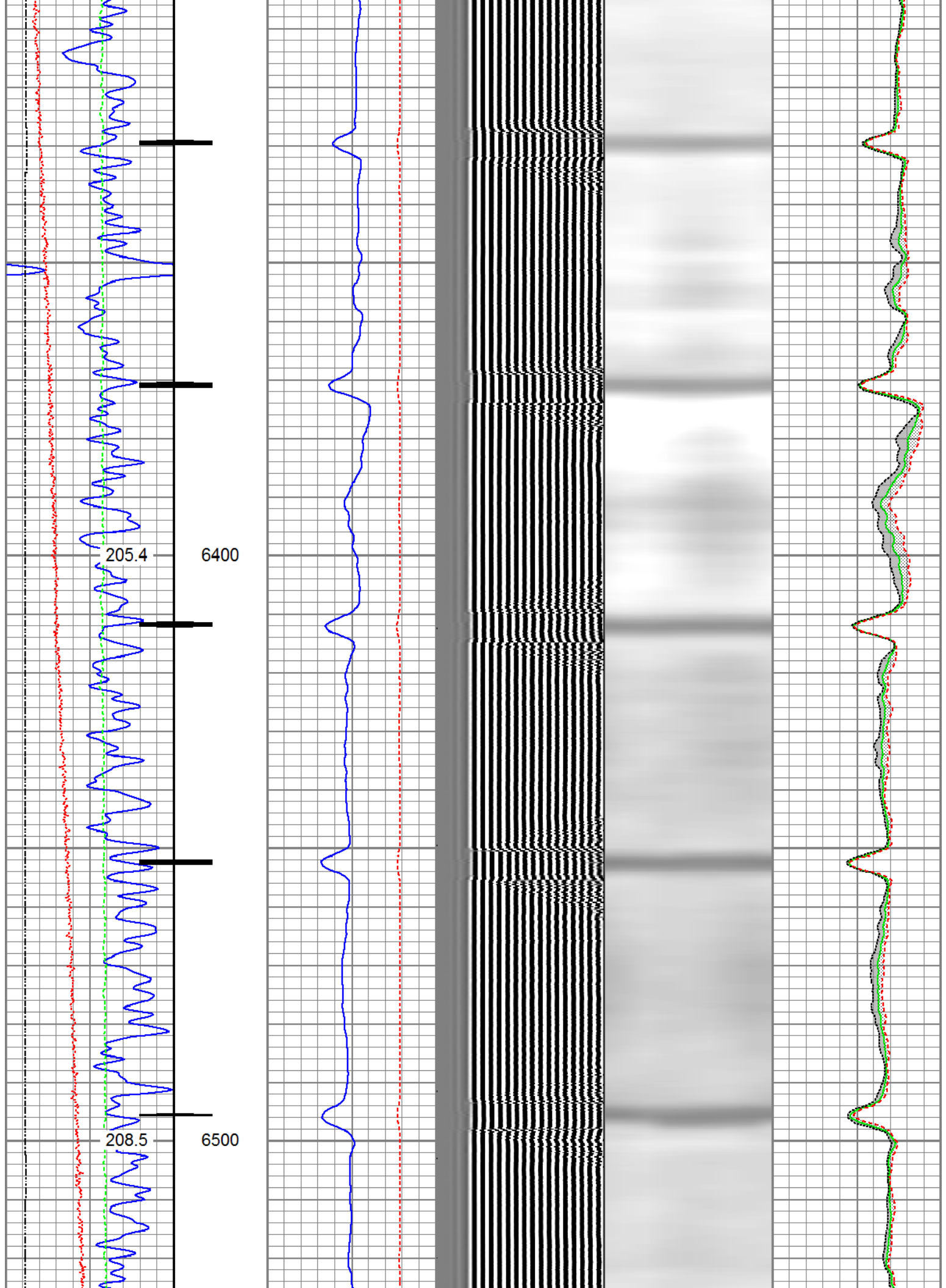


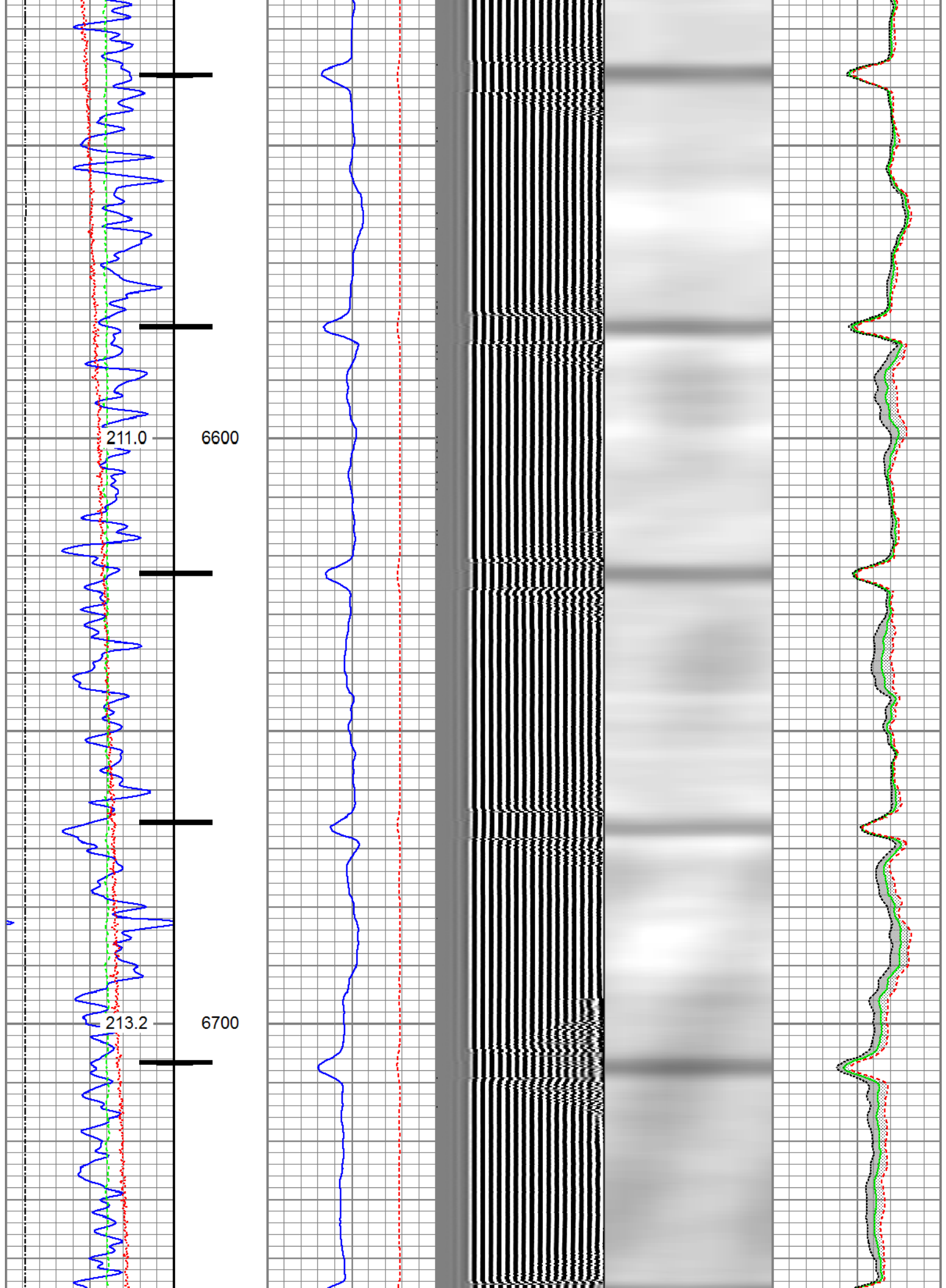


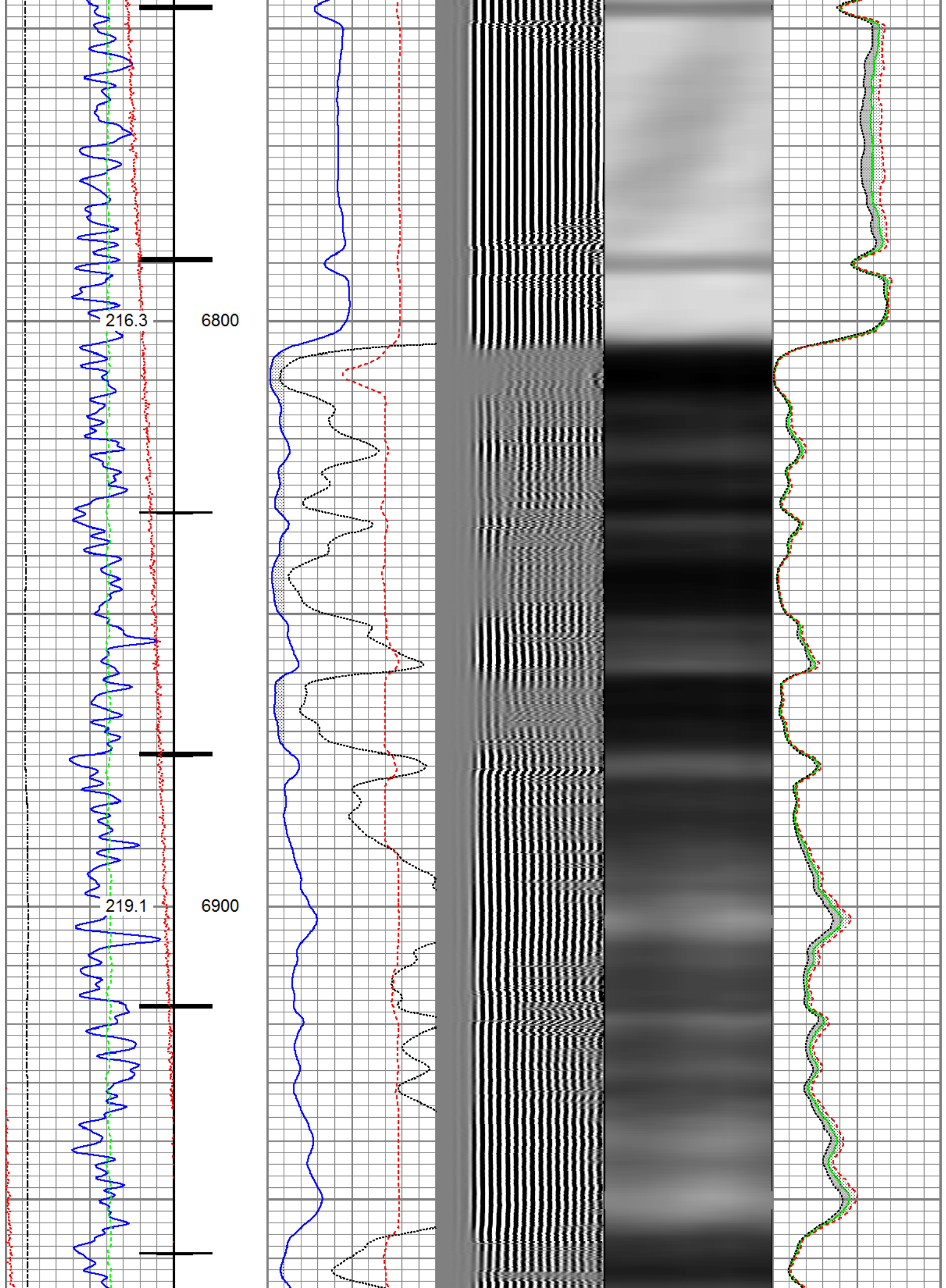


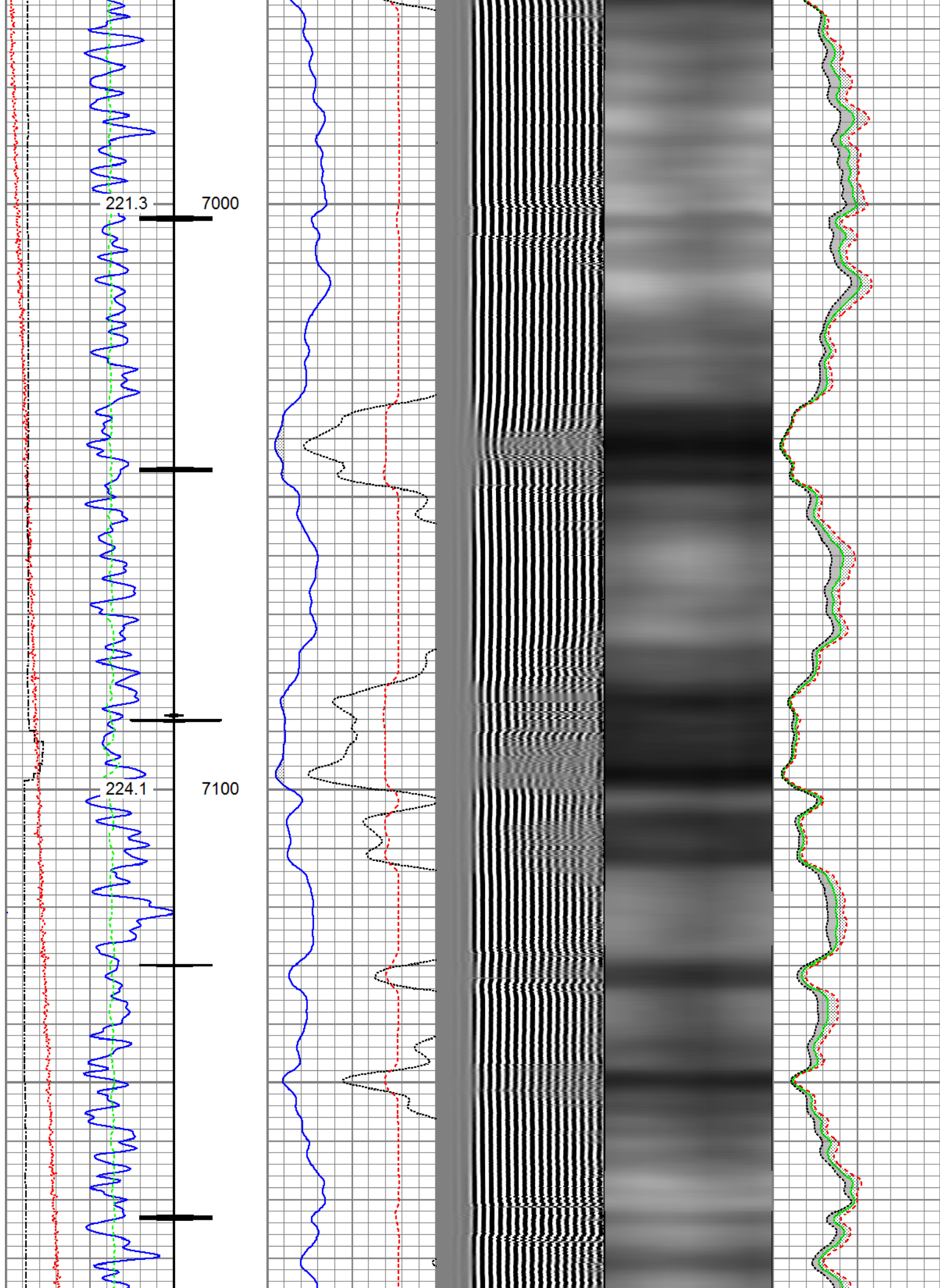


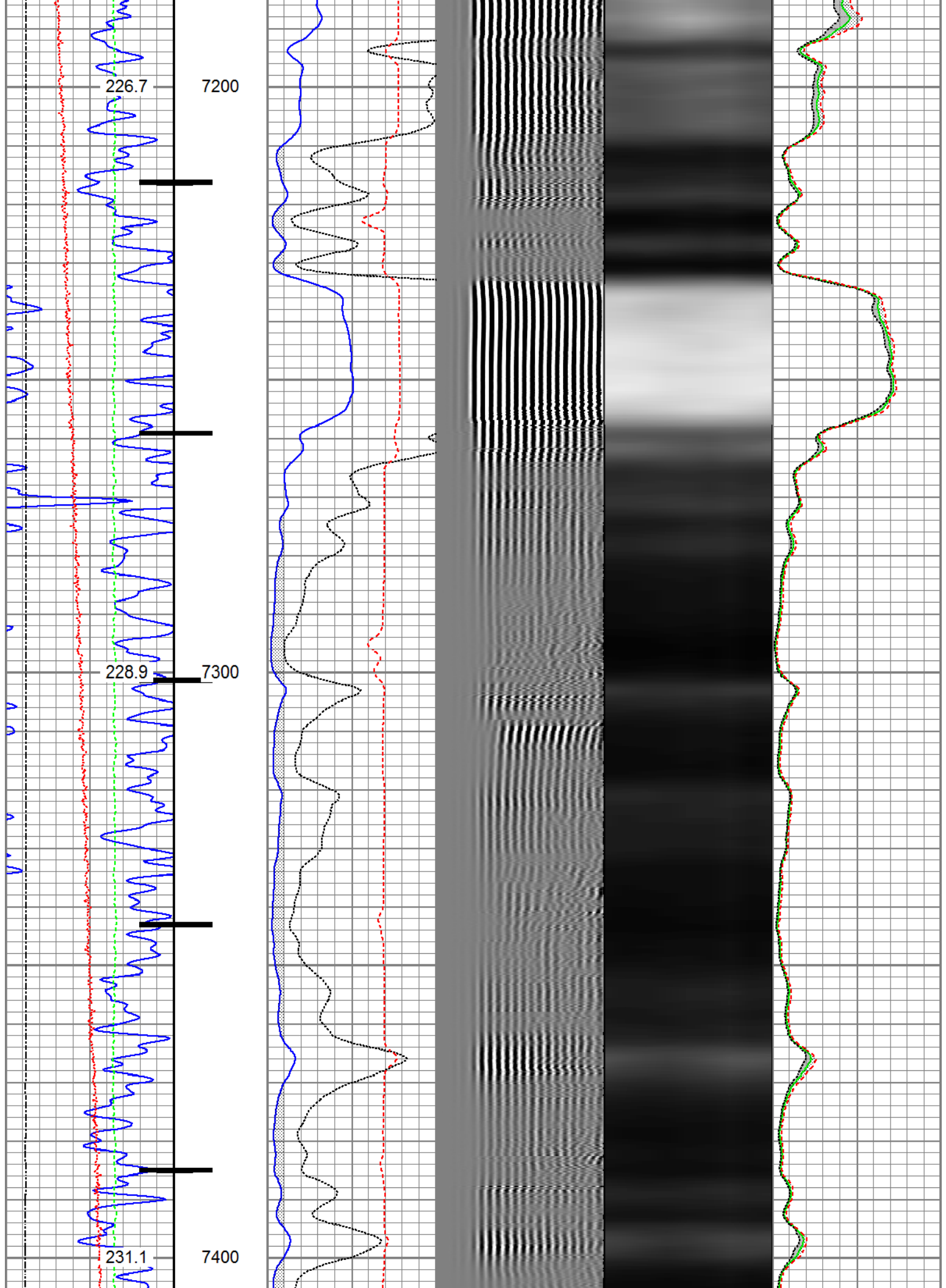


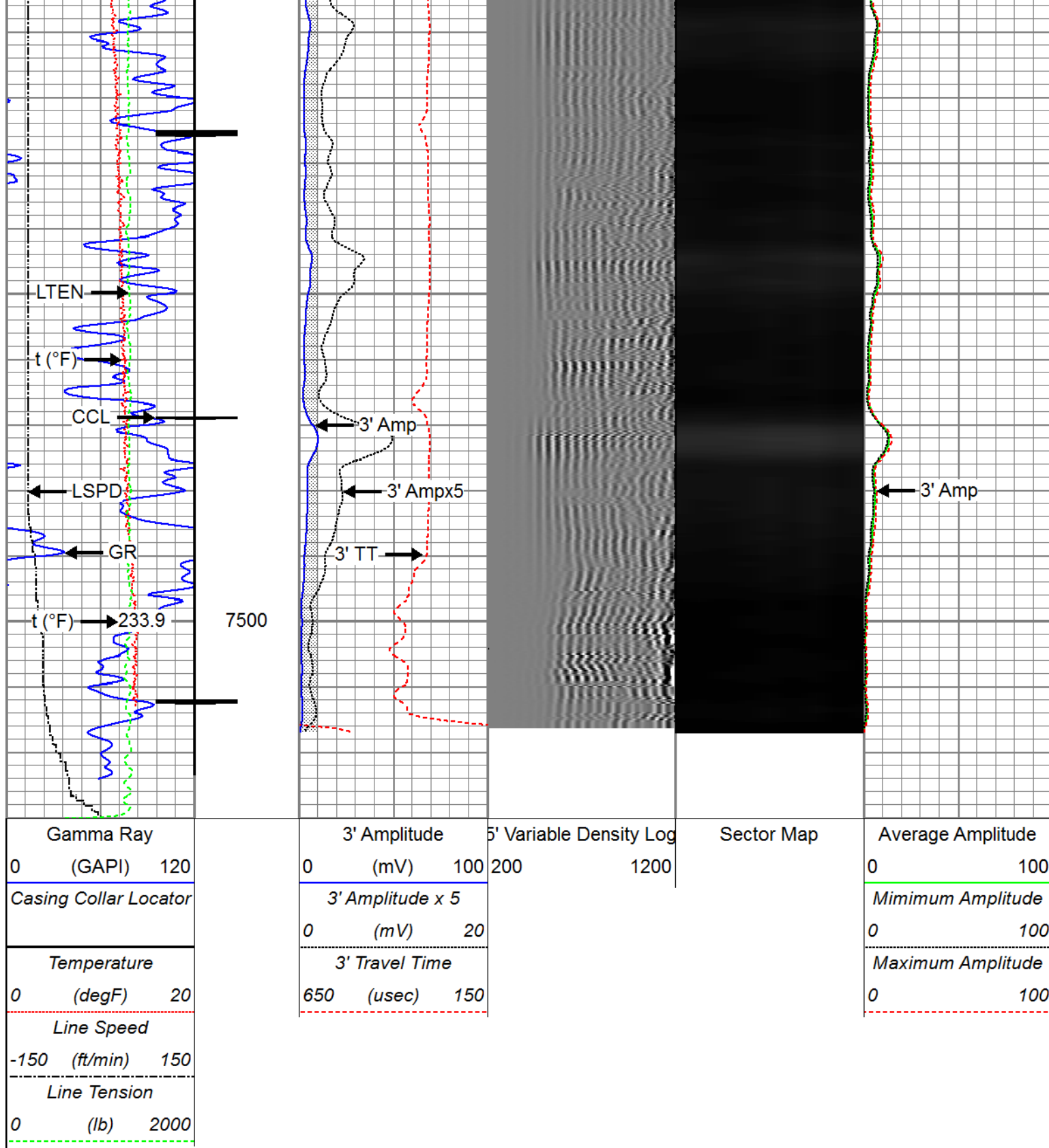










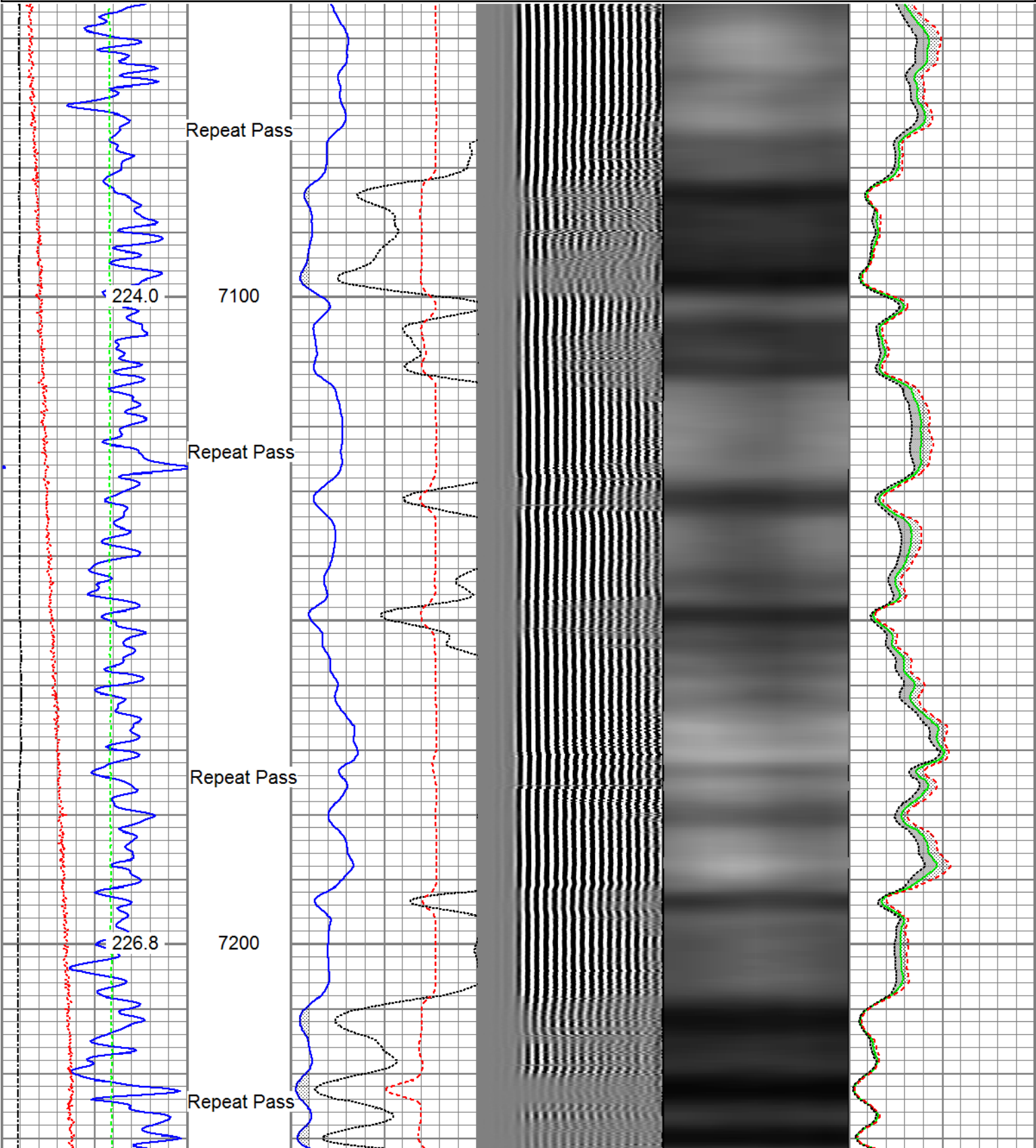


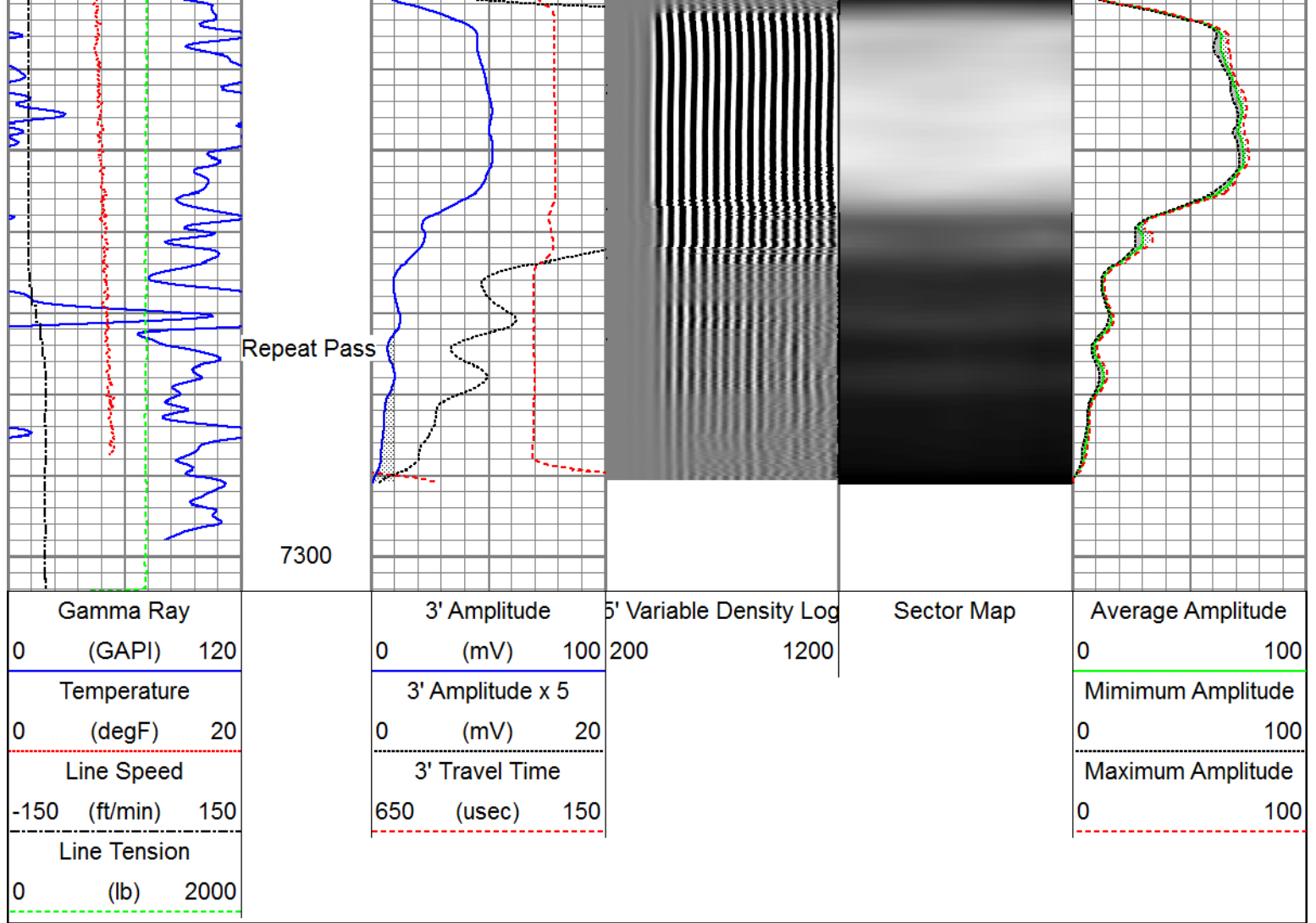
Repeat Pass

Recorded with 0 PSI Surface Induced Pressure

Database File	anadarko ackerson doris b 1 rcbl 13 march 2017\processed_0512308300_anadarko_ackerson doris
Dataset Pathname	repeatrepeat
Presentation Format	ros_radri
Dataset Creation	Mon Mar 13 13:28:01 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
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	Length (ft)	O.D. (in)	Weight (lb)
HeadVolt	19.54		Titan_Electric_Cable_Heads-Titan_1-11/16" 1.03 Electric Cable Head with 1" Fishing Neck	1.03	1.69	5.40
			Probe_ELine_BowSpring_Centralizer-P_EB2.8875 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.8875	2.75	20.00
Temp	16.75					
WVFS8	14.58		Probe_RADII-C-P_RBT_2750 (FW1305-09)9.19 Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00
WVFS7	14.58					
WVFS6	14.58					
WVFS5	14.58					
WVFS4	14.58					
WVFS3	14.58					

	Depth	Tool Joint Depth	Log Name	Cable Length	Weight
WVFS2 WVFS1 WVFCAL WVF3FT WVF5FT HEADVOLT	14.58 14.58 14.58 14.58 13.58 10.33				
			Probe_ELine_BowSpring_Centralizer-P_EB\$2.8875 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	20.00
DCCL CCL	6.51 6.51				
			Probe_GR_CCL-P_CGR_2750_S (FW12114.57) Probe 2-3/4" Digital CCL / Gamma Ray Combined	2.75	55.00
GR	3.77				
			Probe_ELine_BowSpring_Centralizer-P_EB\$2.8875 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	20.00

Dataset: PROCESSED_0512308300_Anadarko_Ackerson Doris B 1_03-13-17_RBL_W8.db: field/well/run1/goodmain

Total length: 23.43 ft

Total weight: 225.40 lb

O.D.: 2.75 in

Calibration Report	
Database File	C:\ProgramData\Warrior\Data\Anadarko Ackerson Doris B 1 RCBL 13 March 2017\PROCESSED_05
Dataset Pathname	goodmain
Dataset Creation	Mon Mar 13 13:34:19 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:	FW1305-098		
Tool Model:	P_RBT_2750		
Calibration Casing Diameter:	5.500		in
Calibration Depth:	5092.545		ft

Master Calibration, performed Mon Mar 13 13:18:54 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.665	0.800	71.921	107.329	0.593
CAL	0.002	0.738				
5'	0.002	0.480	0.800	71.921	148.890	0.469
SUM						
S1	0.002	0.656	0.000	100.000	152.884	-0.267
S2	0.003	0.666	0.000	100.000	150.771	-0.420
S3	0.002	0.676	0.000	100.000	148.430	-0.313
S4	0.002	0.691	0.000	100.000	145.076	-0.296
S5	0.002	0.693	0.000	100.000	144.755	-0.288
S6	0.002	0.672	0.000	100.000	149.396	-0.321
S7	0.002	0.655	0.000	100.000	153.156	-0.303
S8	0.002	0.648	0.000	100.000	154.715	-0.300

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.002	0.738	1.000	0.000

Air Zero Calibration, performed Mon Mar 13 12:52:34 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	Ackerson Doris B 1
Field	Wattenberg
County	Weld
State	Colorado