



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company	Kerr-McGee Oil & Gas OnShore L.P.	Company	Kerr-McGee Oil & Gas OnShore L.P.
Well	GE Powers 29N-26HZ	Well	GE Powers 29N-26HZ
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:		API # : 05-123-41910	Other Services Gauge Ring Junk Basket
Permanent Datum		Ground Level	Elevation
Log Measured From		Kelly Bushing	20 FT
Drilling Measured From		Kelly Bushing	Elevation
SEC 23		TWP 2N	RGE 65W

Date	12-OCT-2015
Run Number	Two
Depth Driller	12,210 FT
Depth Logger	7210 FT
Bottom Logged Interval	7205 FT
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	238.5°F
Estimated Cement Top	18 FT
Time Well Ready	ROA
Time Logger on Bottom	1015
Equipment Number	HD-0340
Location	Fort Lupton, CO
Recorded By	Jack Amidei
Witnessed By	Levi McArther

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	9 5/8	36	J-55	Surface	1846 FT		
Intermediate #1	5 1/2	17	HCP-110 LTC	Surface	12,201 FT		
Intermediate #2							
Liner							

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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 20 FT
Log ran from 7210 FT to surface
Recorded with 2800 PSI surface induced pressure
No debris found on logging tools after run

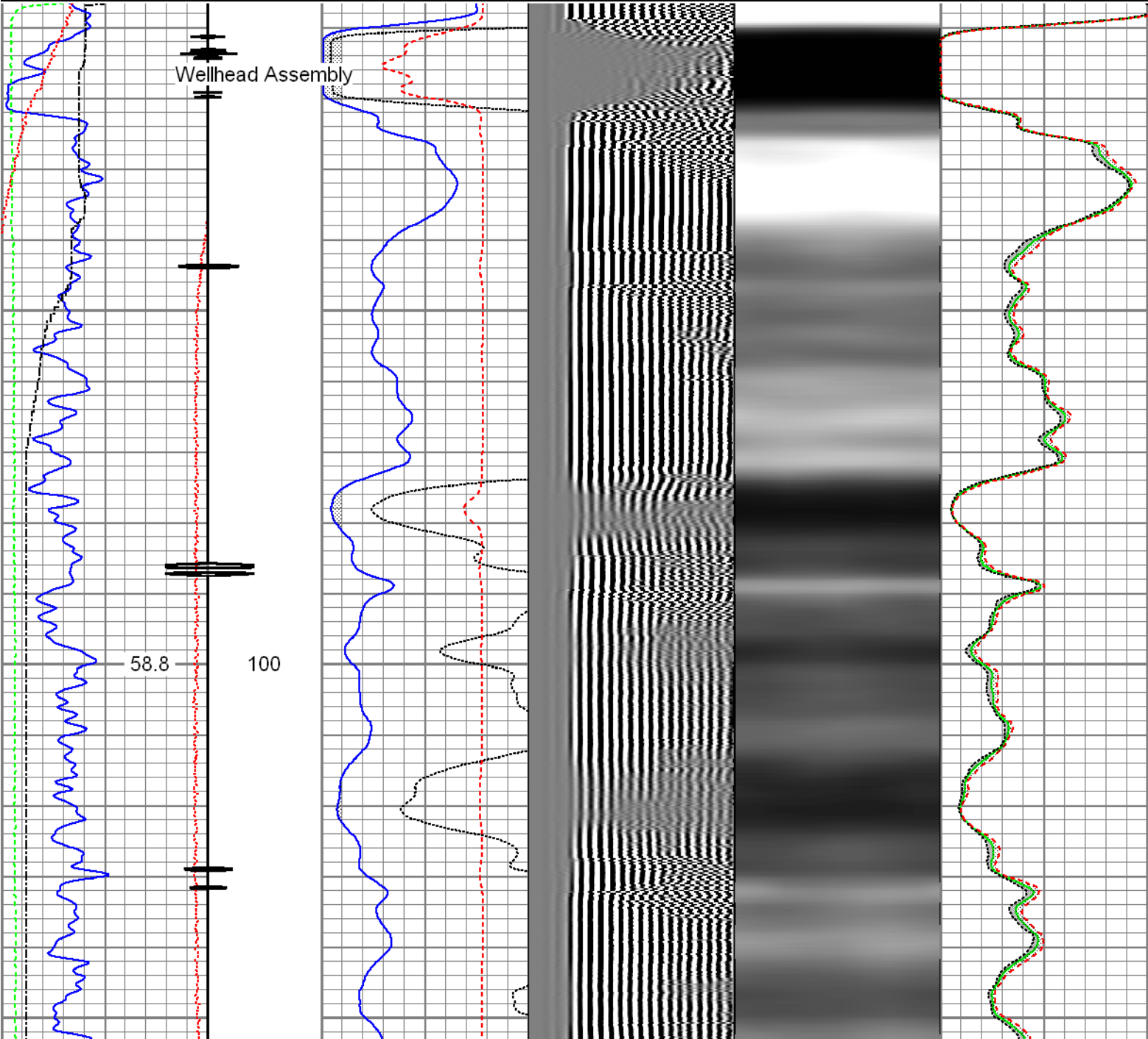
Thank you for choosing FMC Technologies Completion Services, Inc.!!

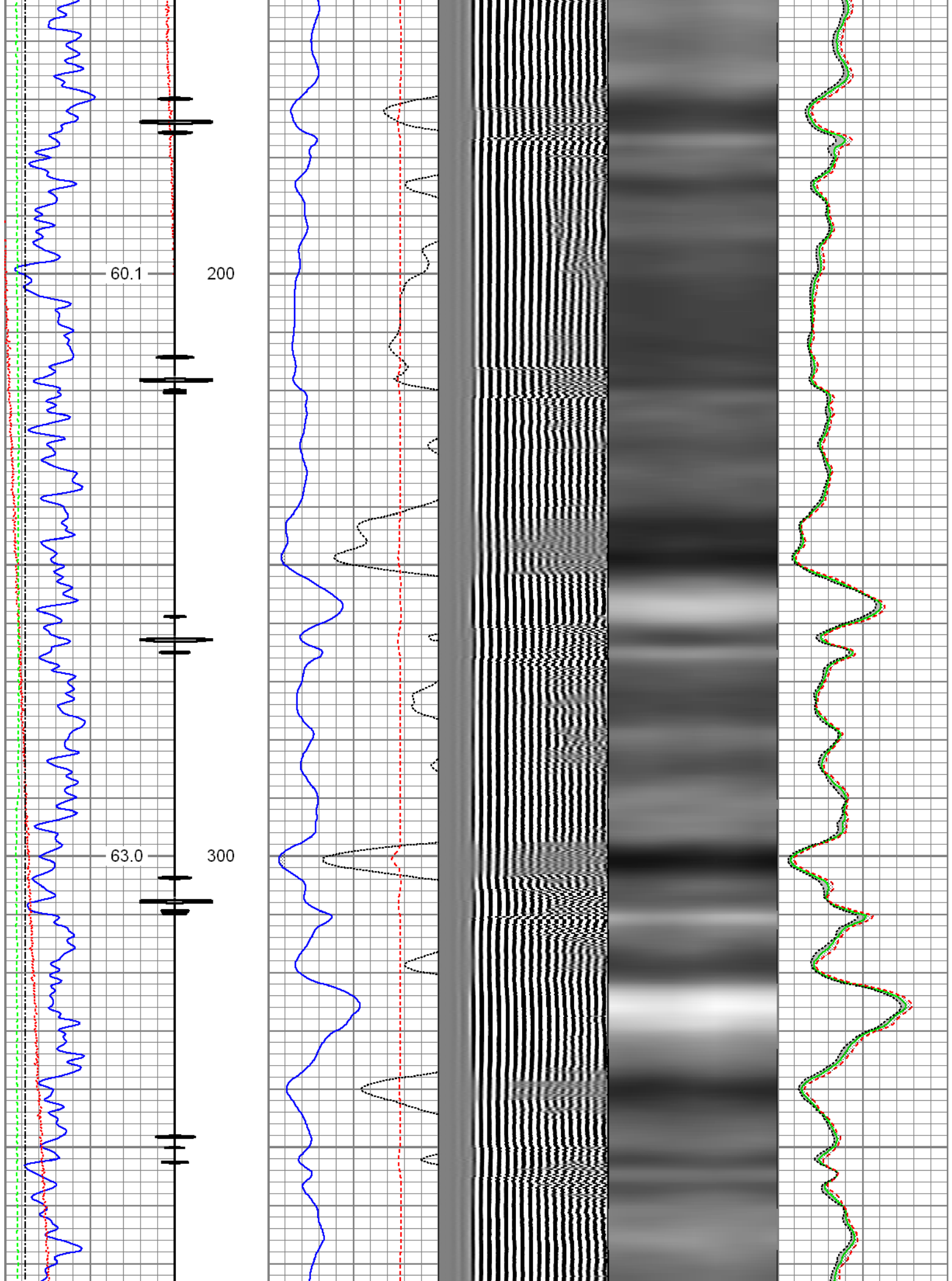


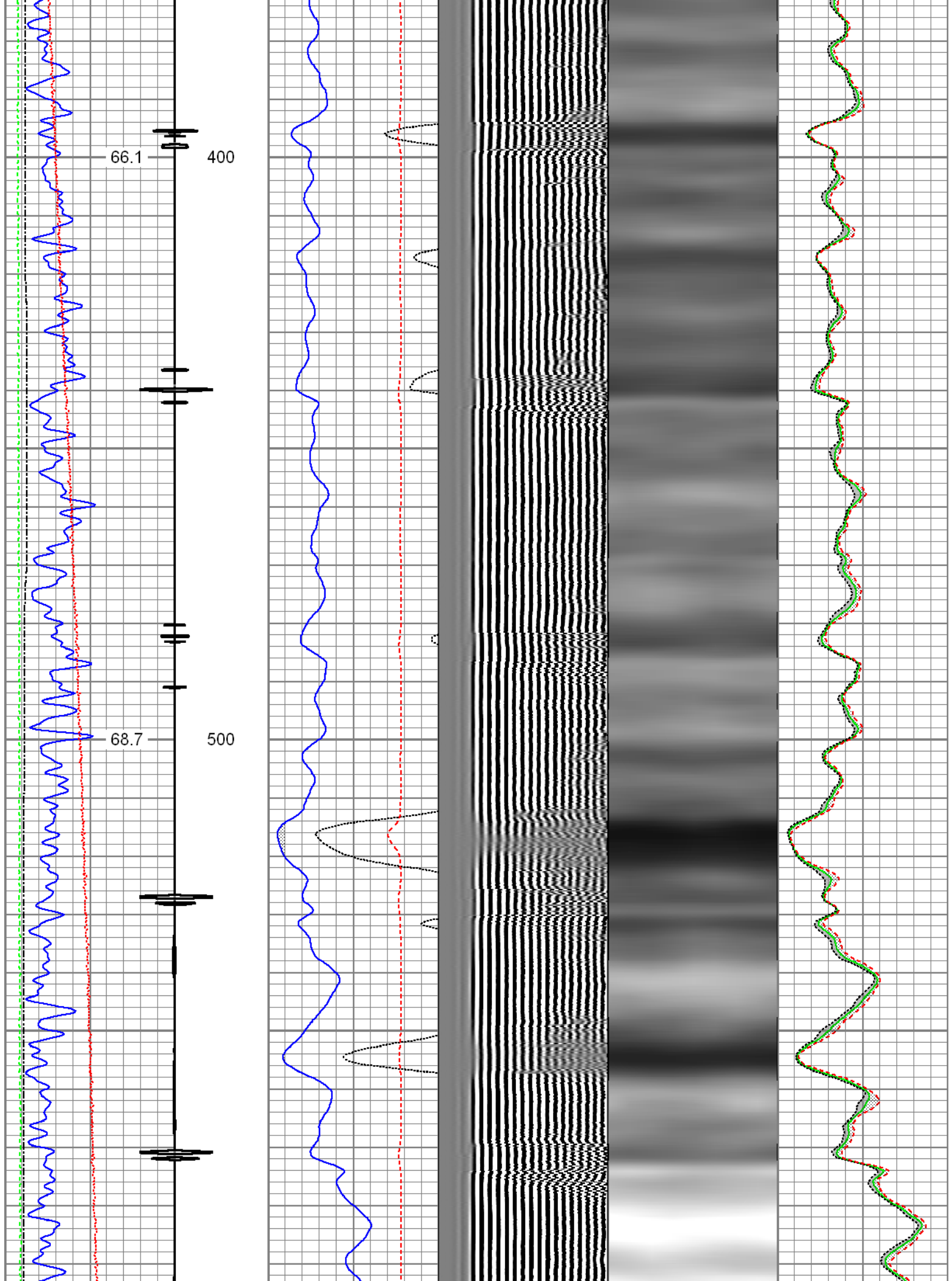
Main Pass

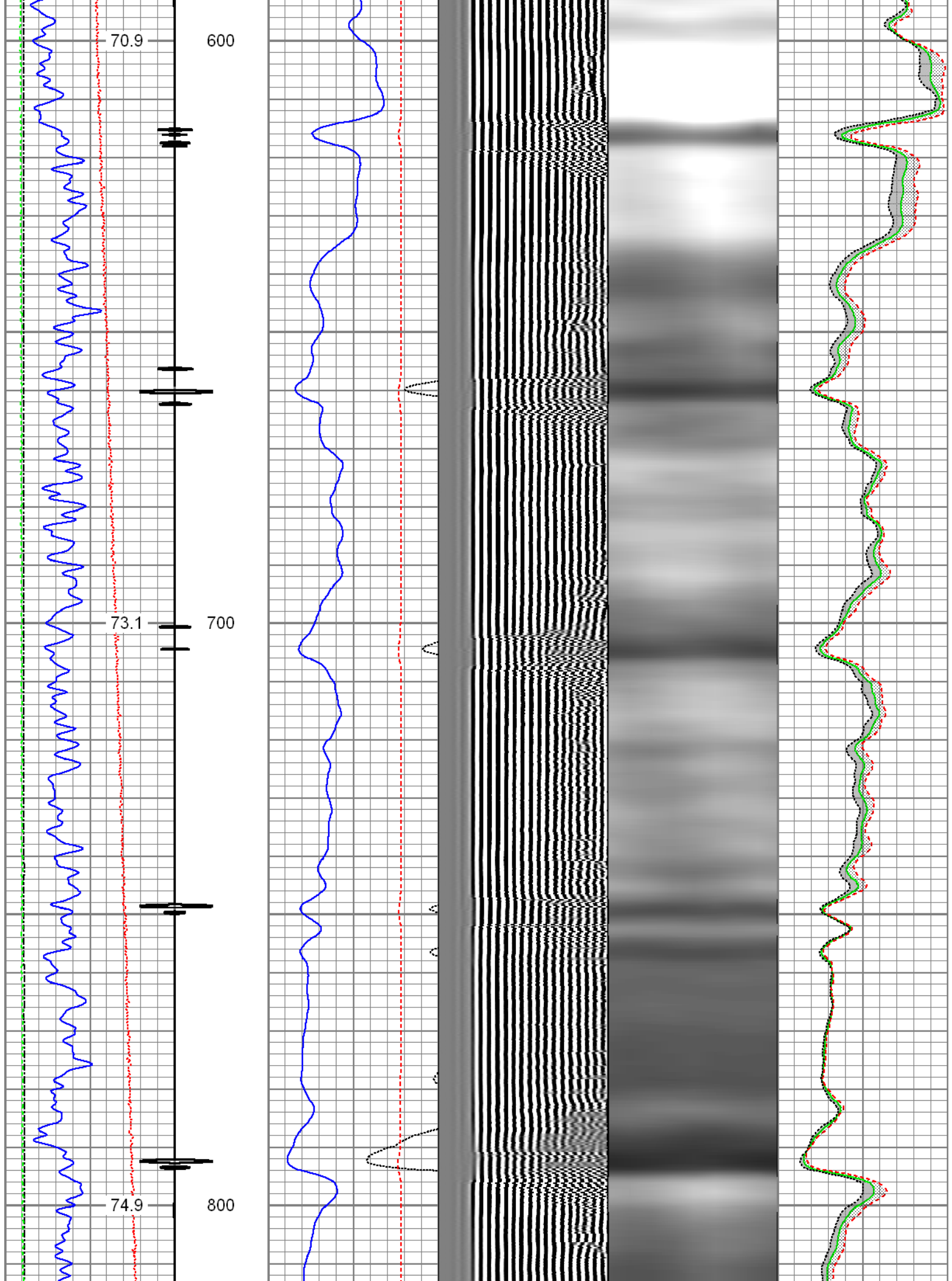
Recorded with 2800 PSI Surface Induced Pressure

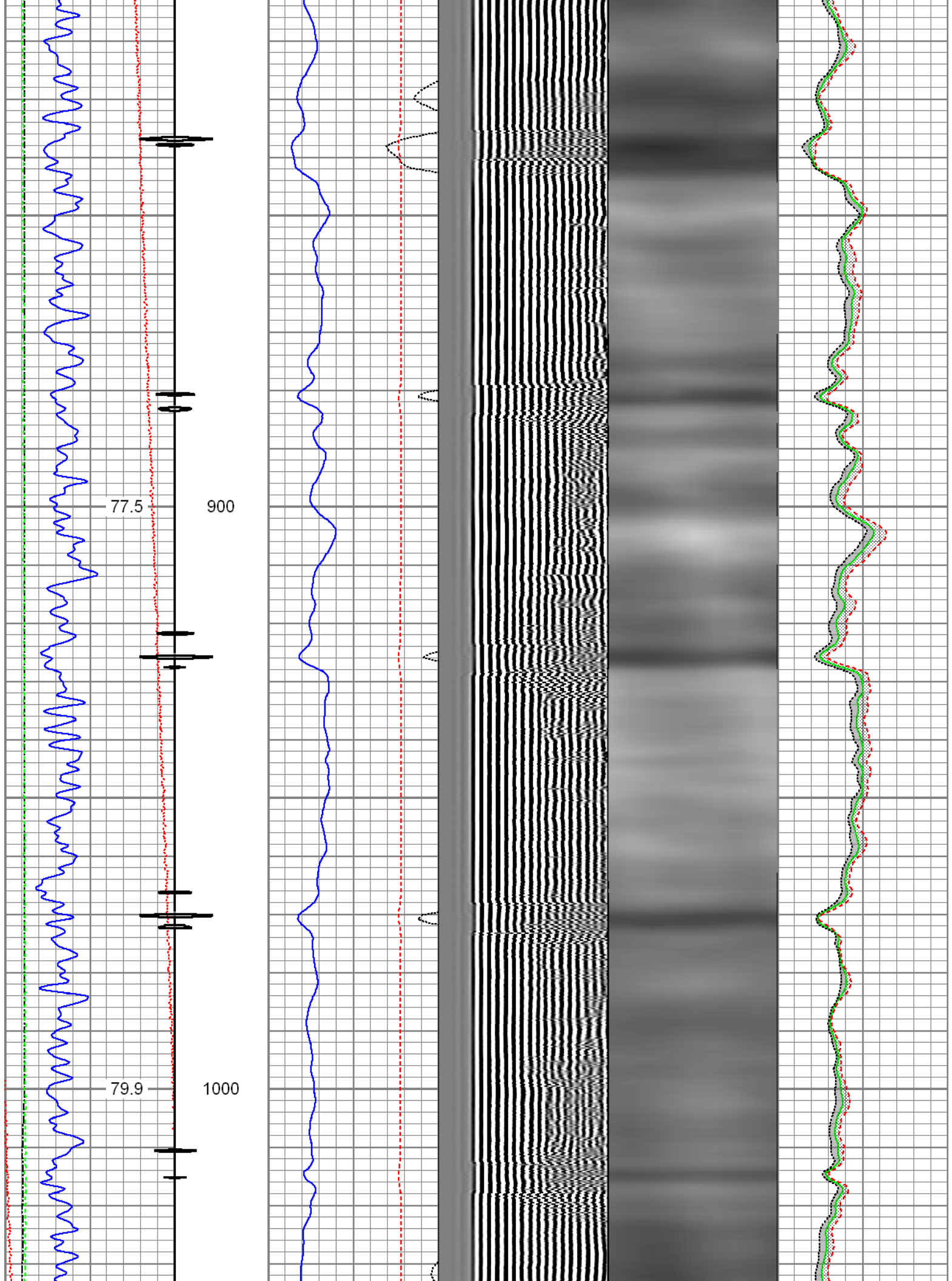
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Temperature	3' Amplitude x 5			Mimimum Amplitude
0 (degF) 20	0 (mV) 20			0 100
Line Speed	3' Travel Time			Maximum Amplitude
-150 (ft/min) 150	650 (usec) 150			0 100
Line Tension				
0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

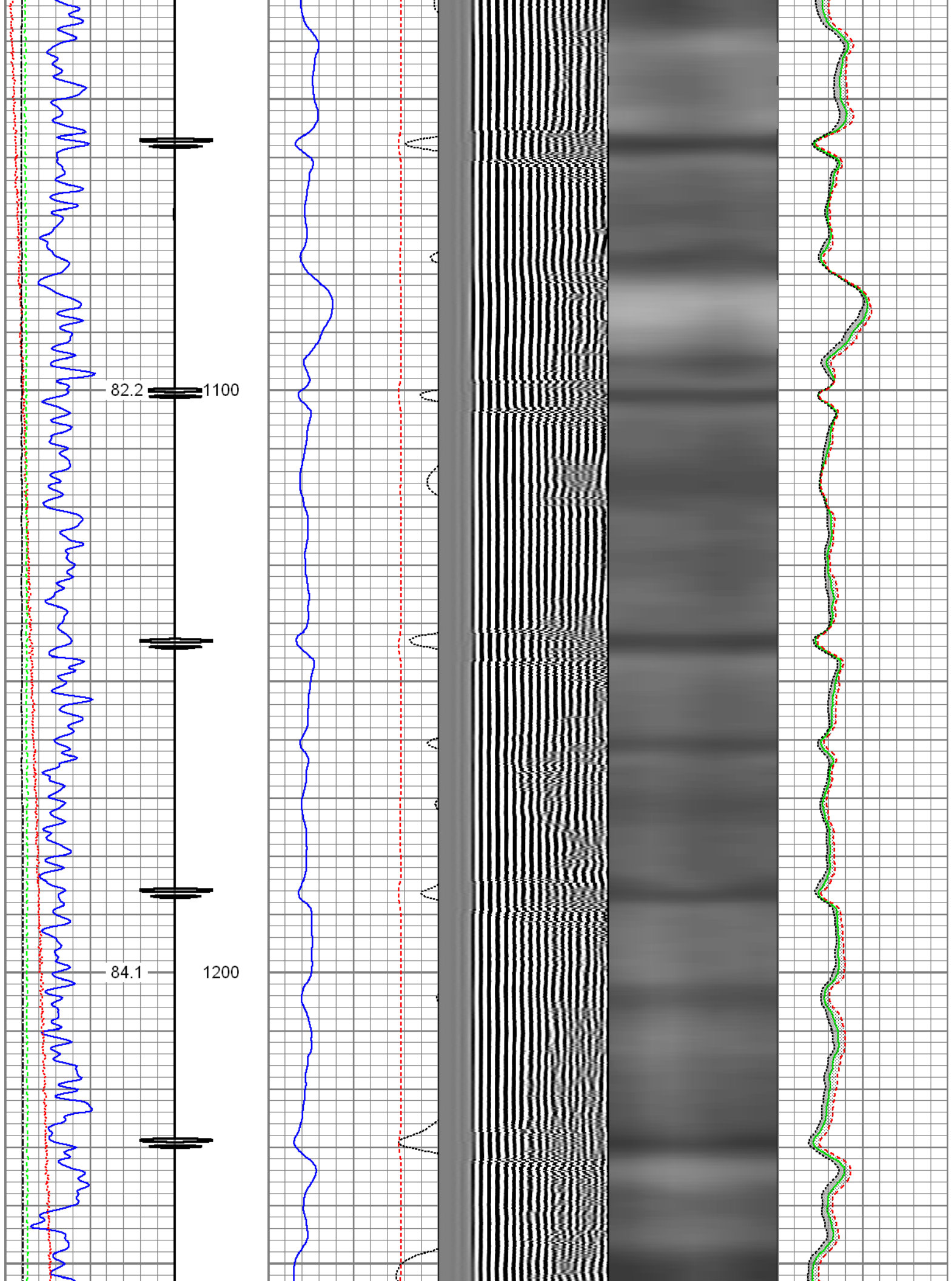


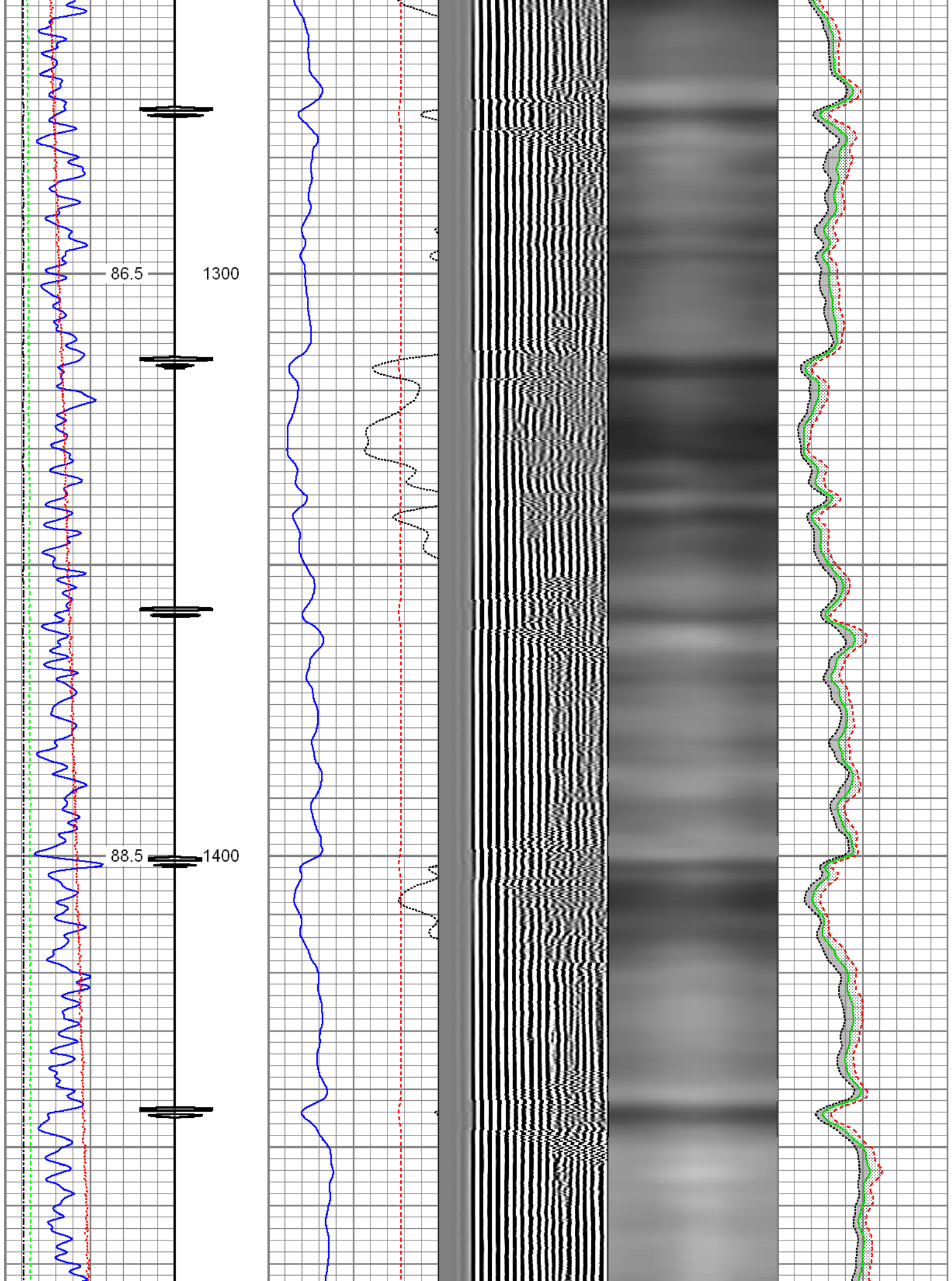


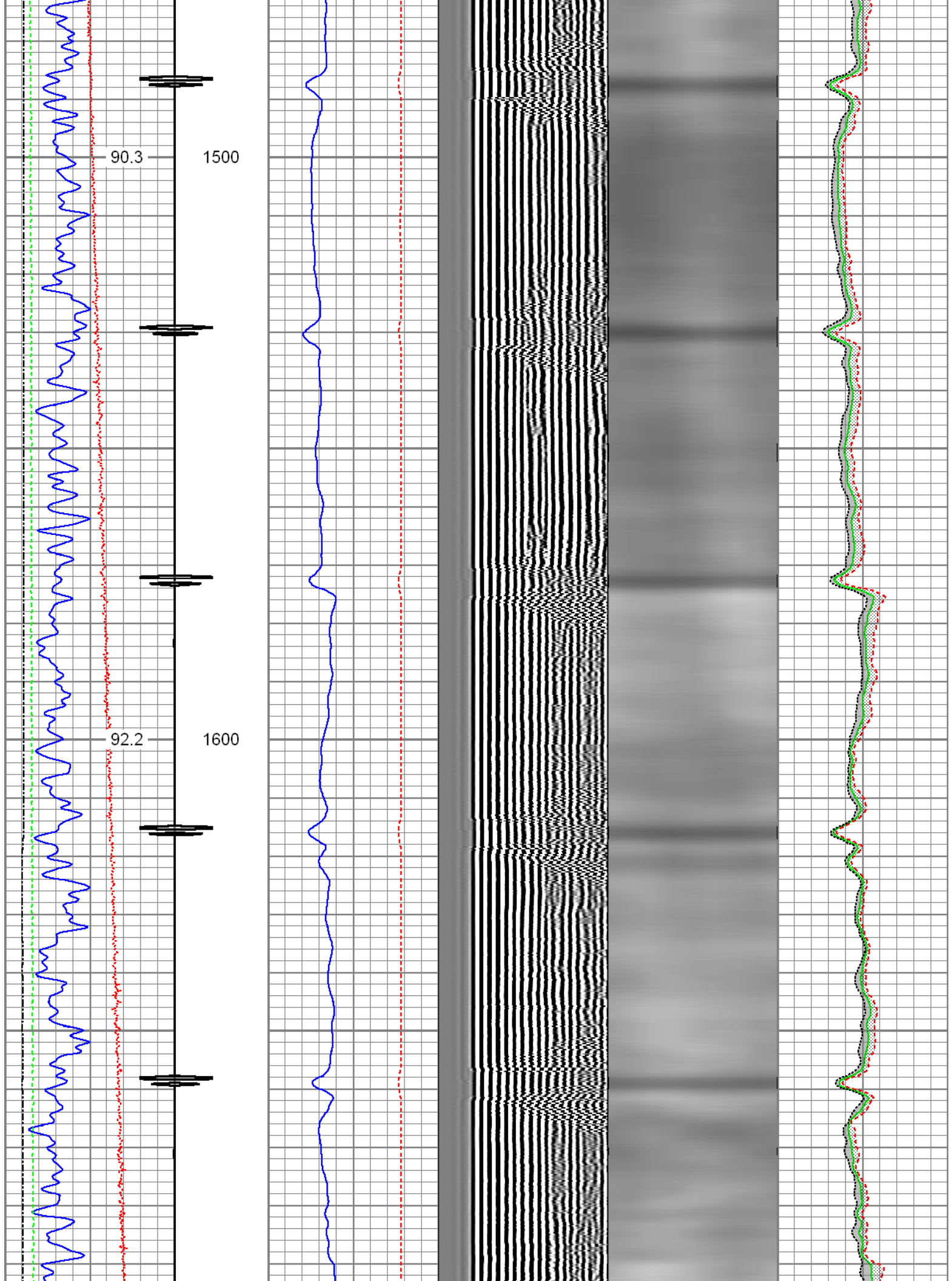


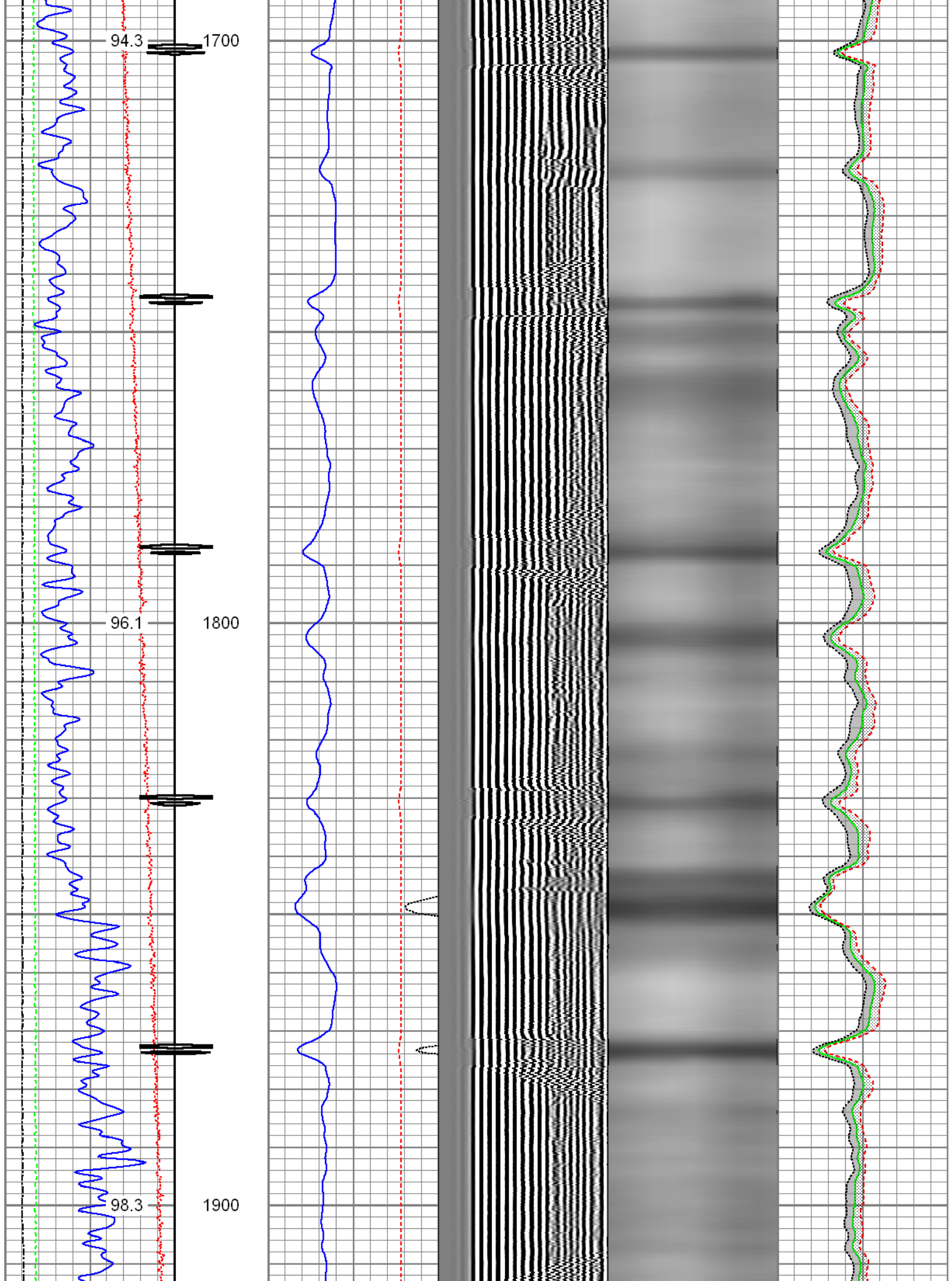


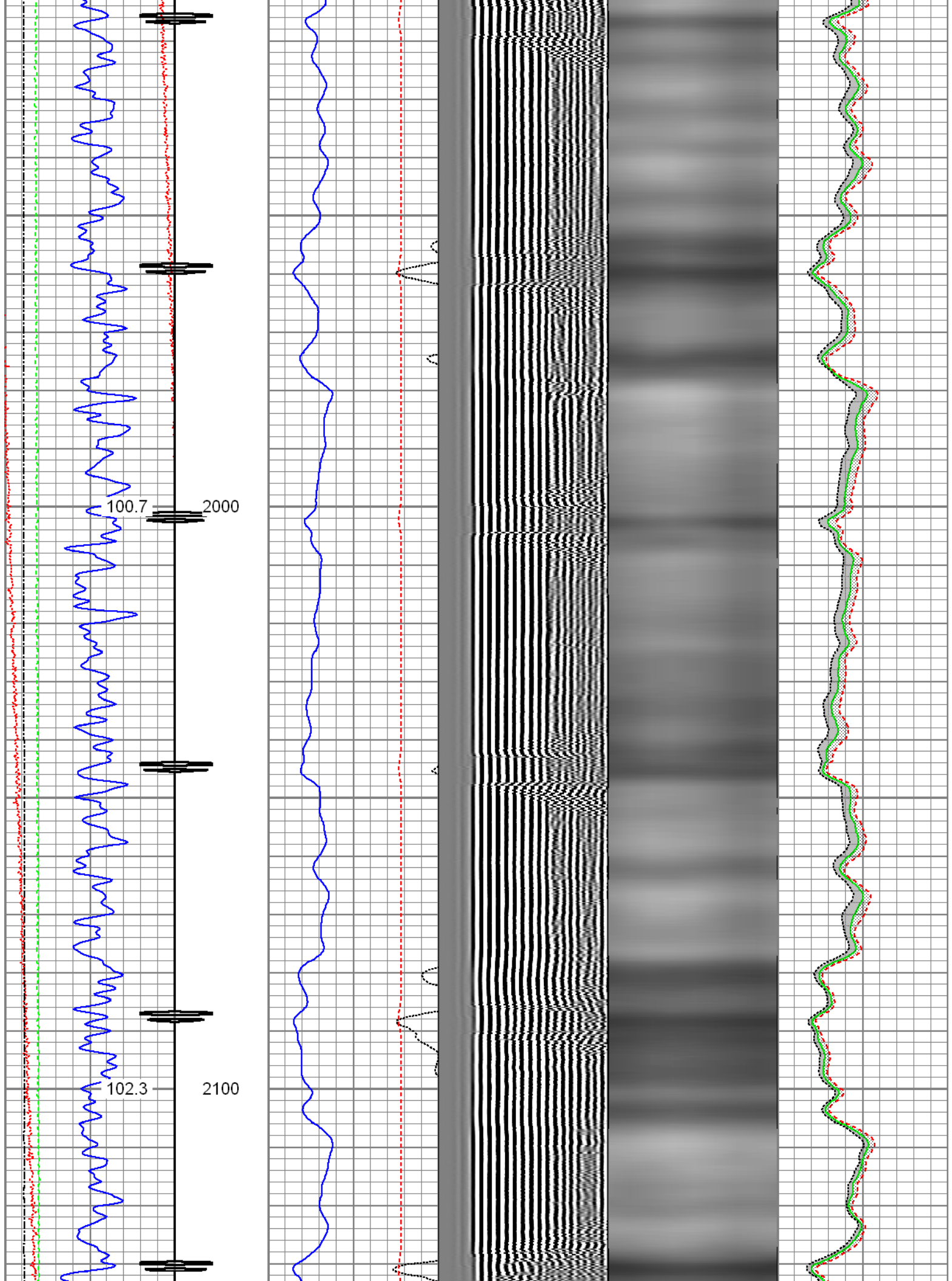


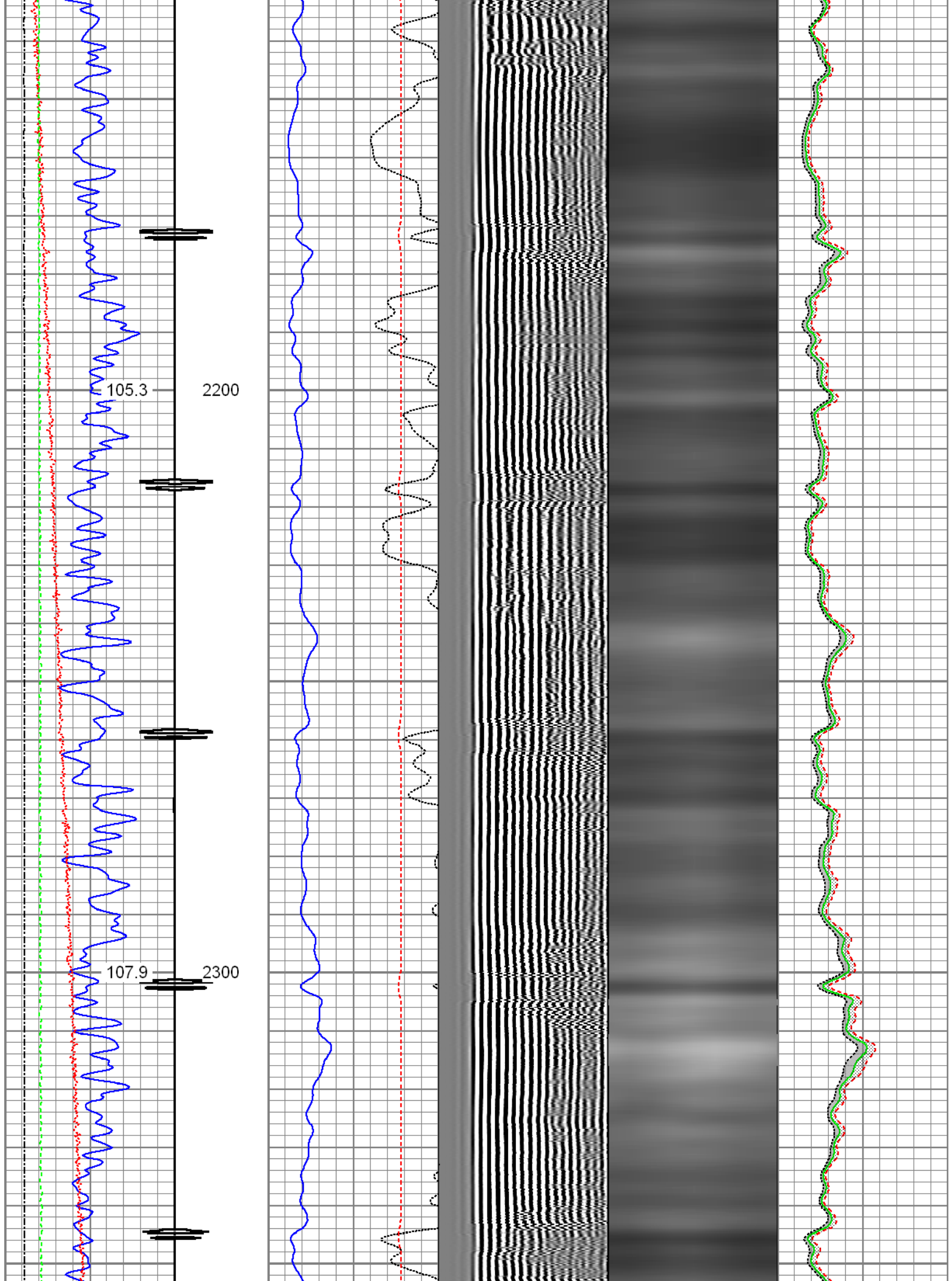


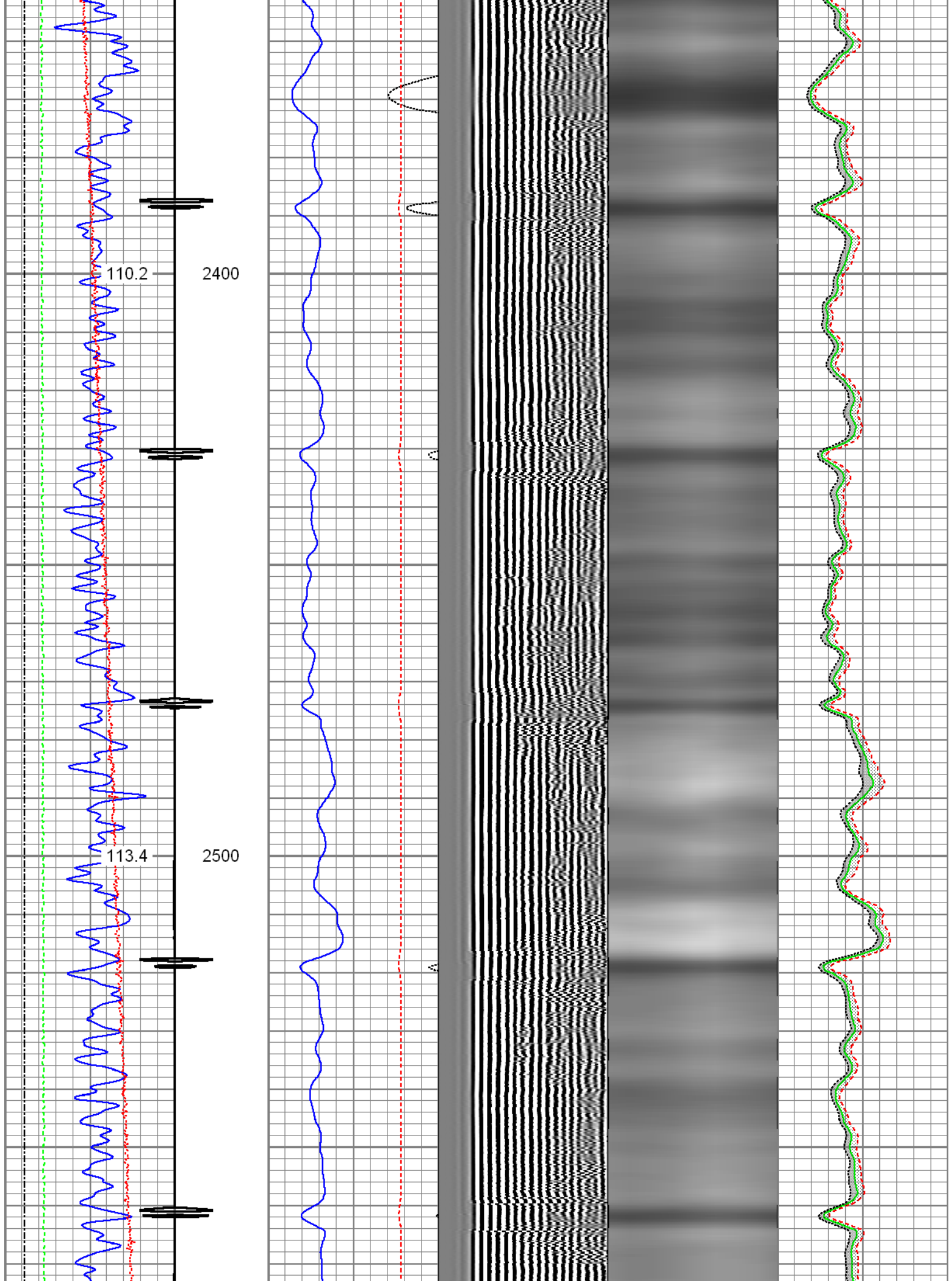


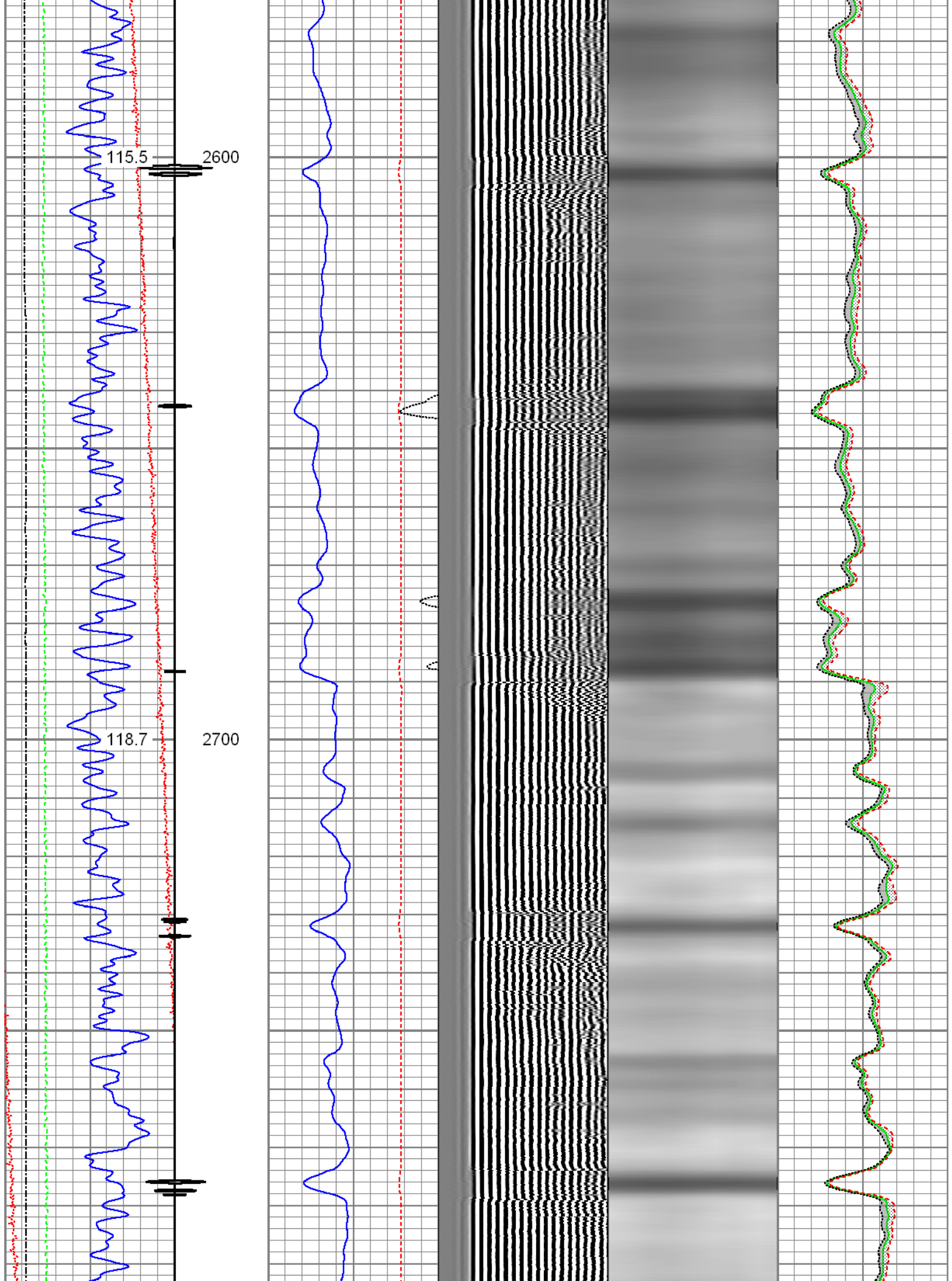


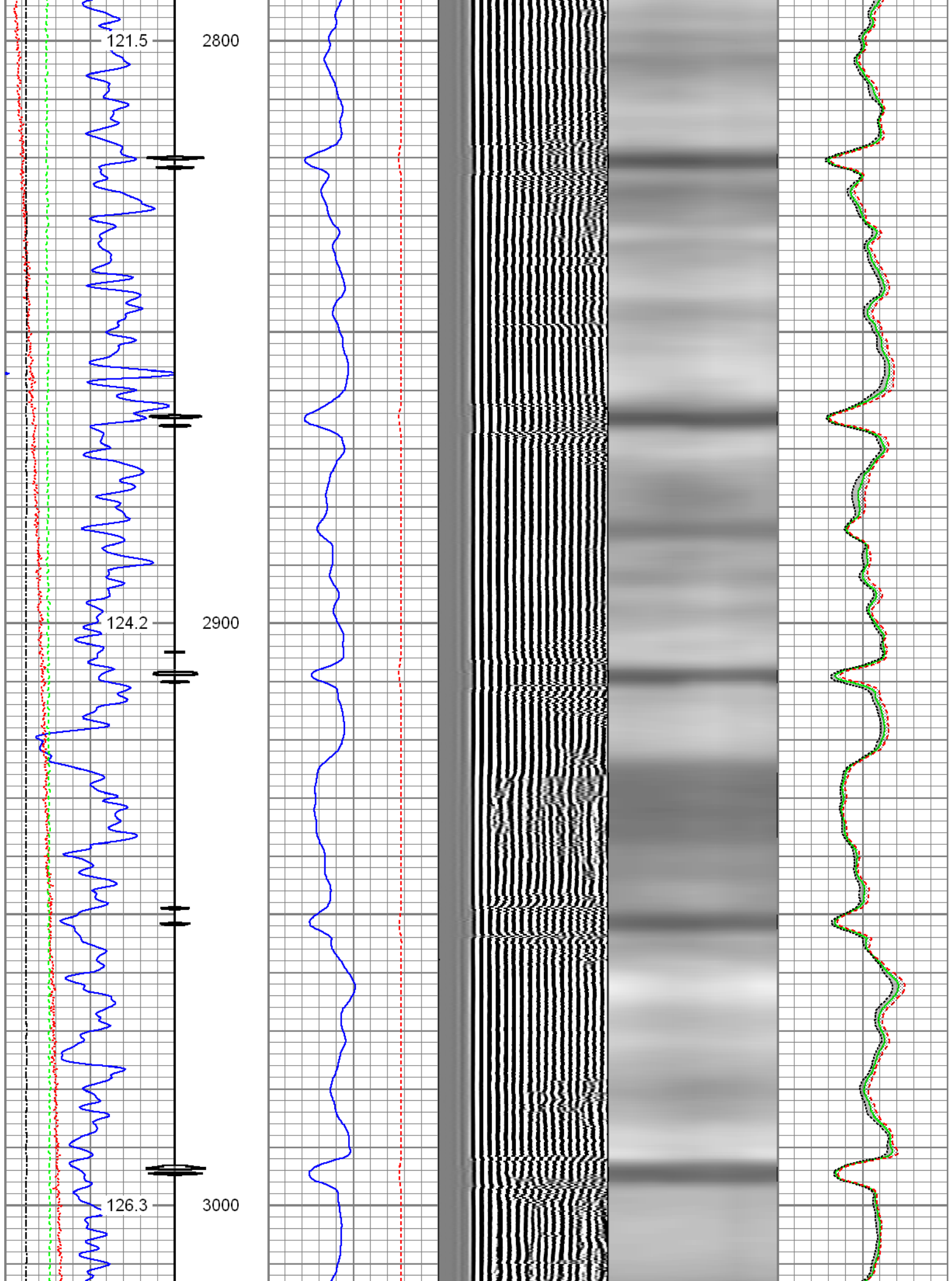


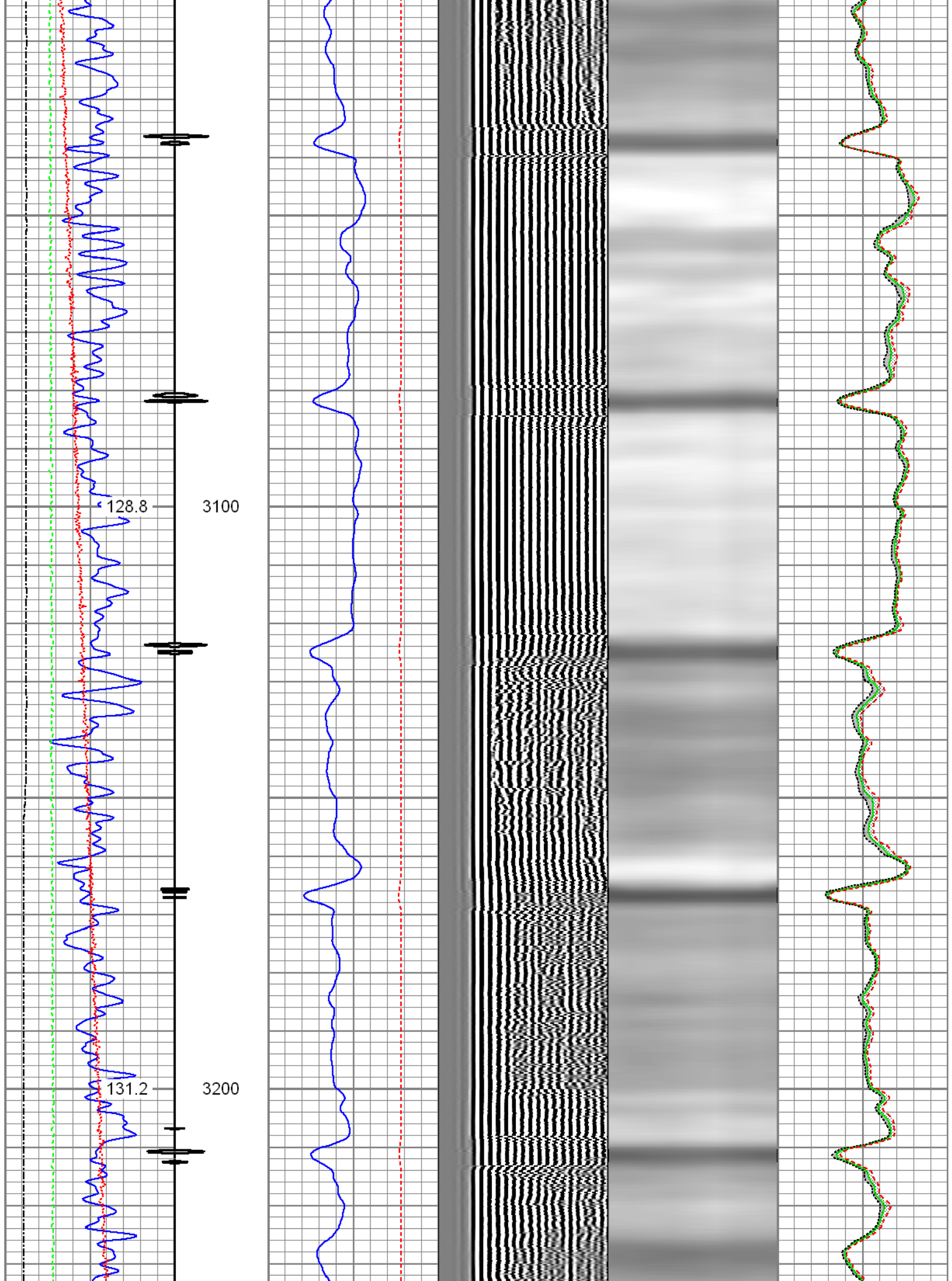


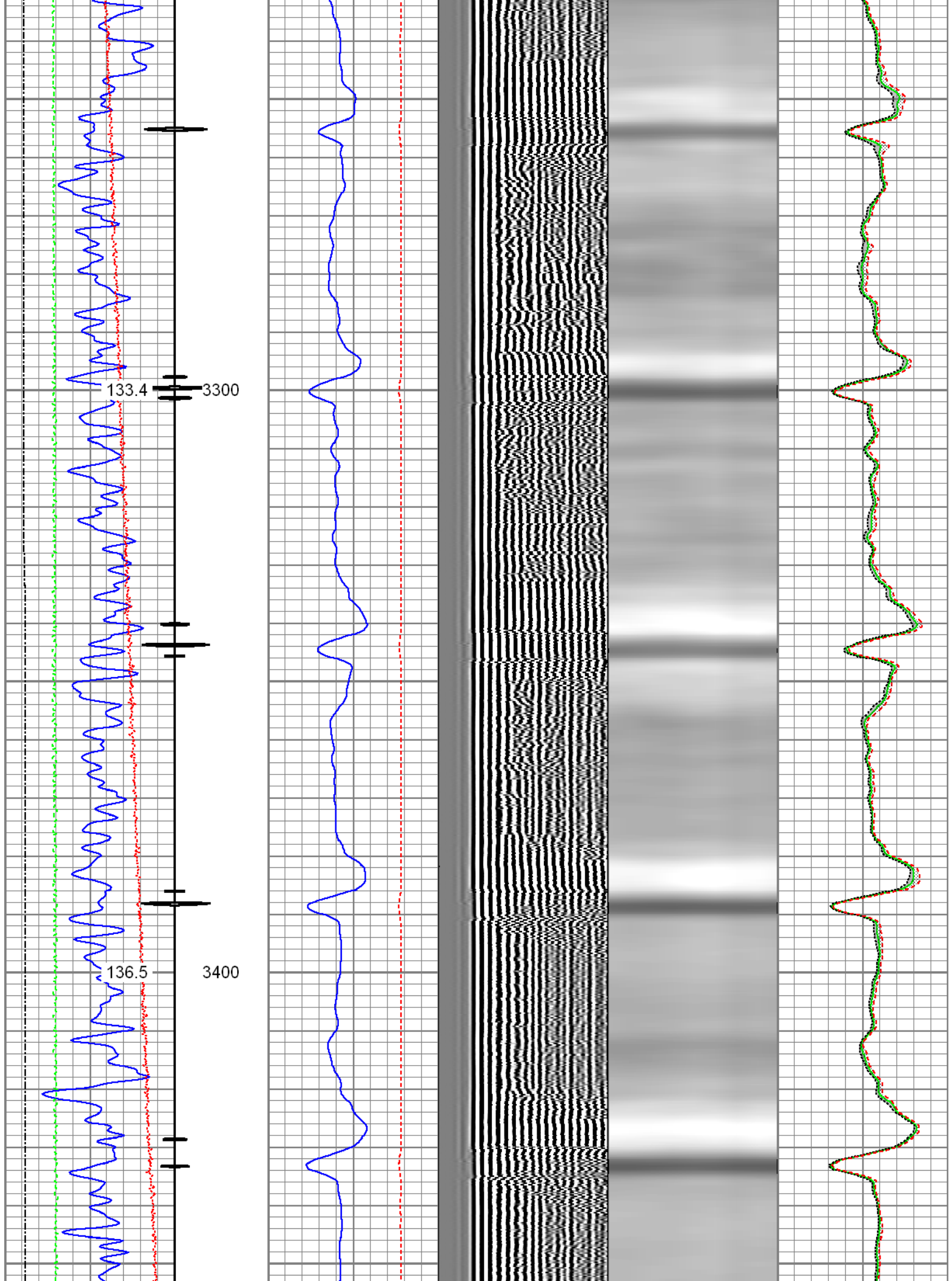


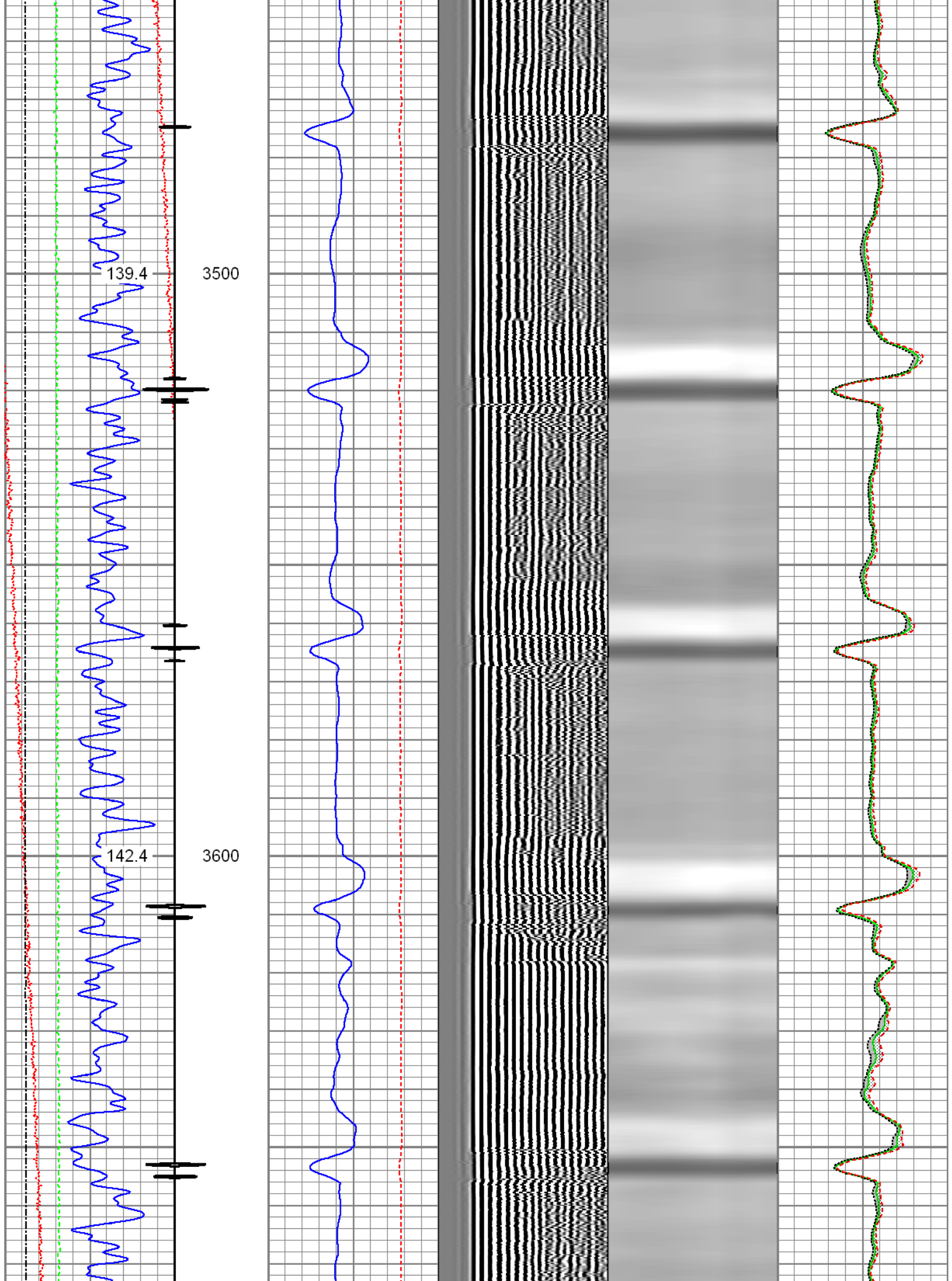


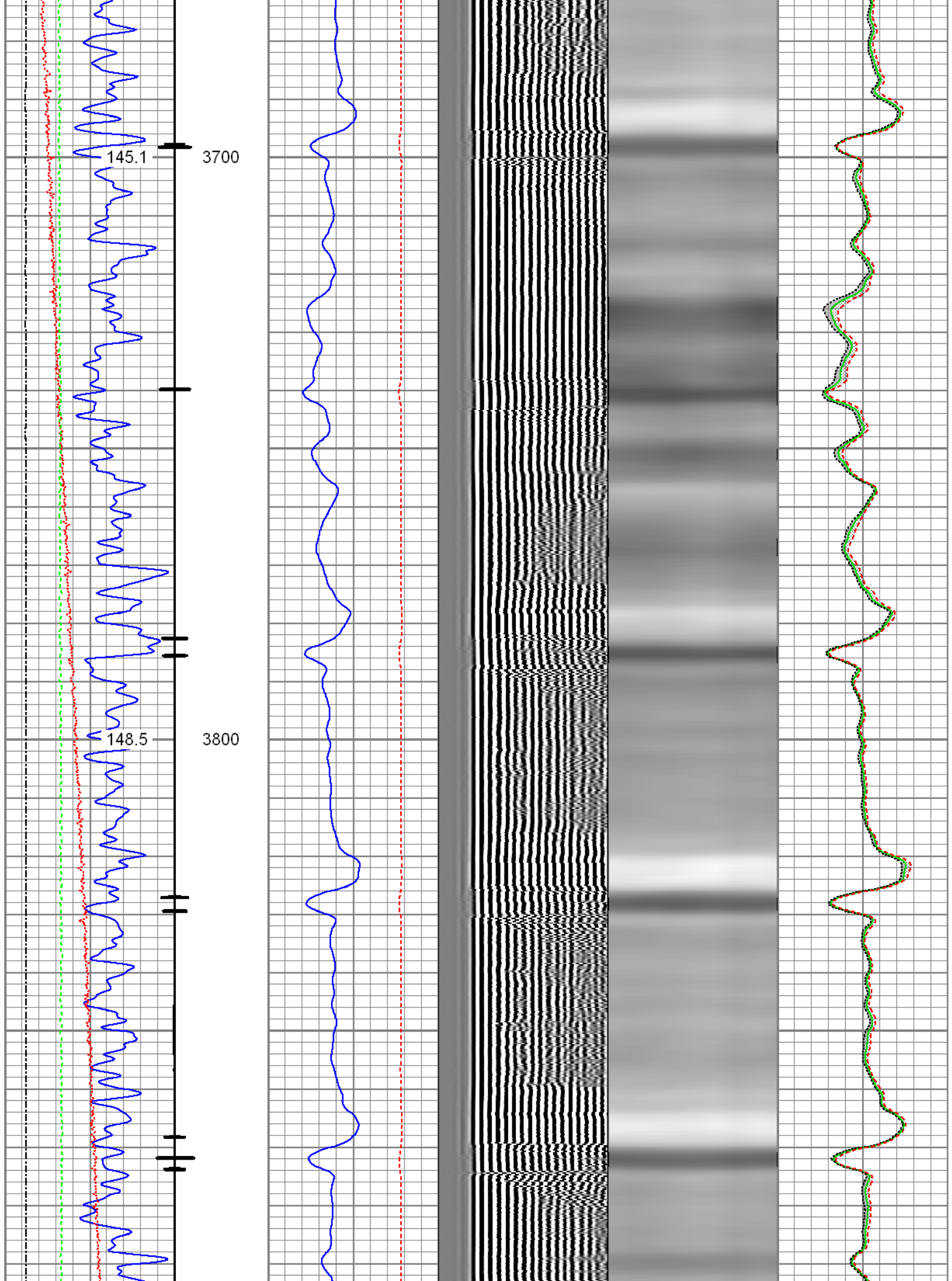


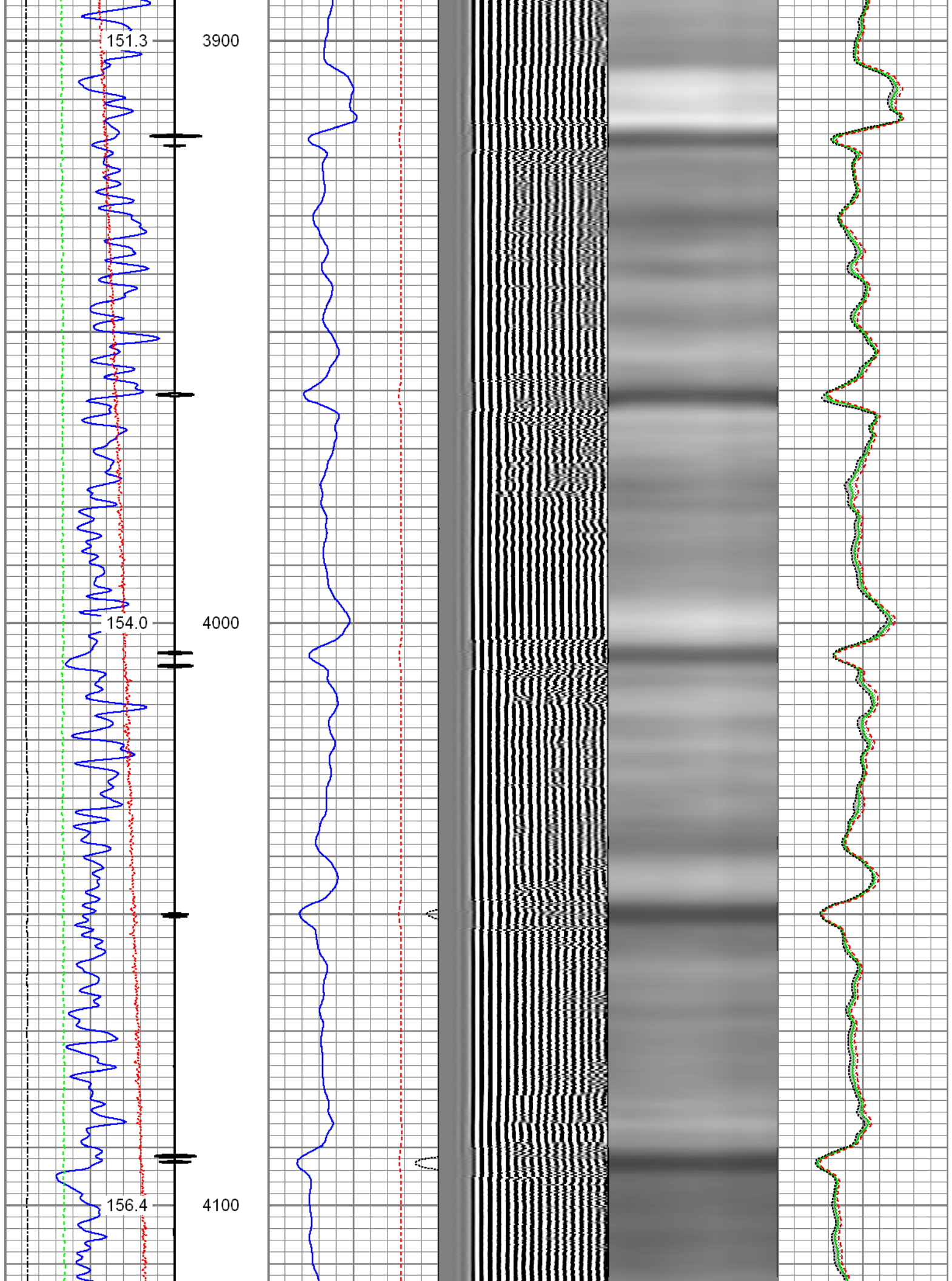


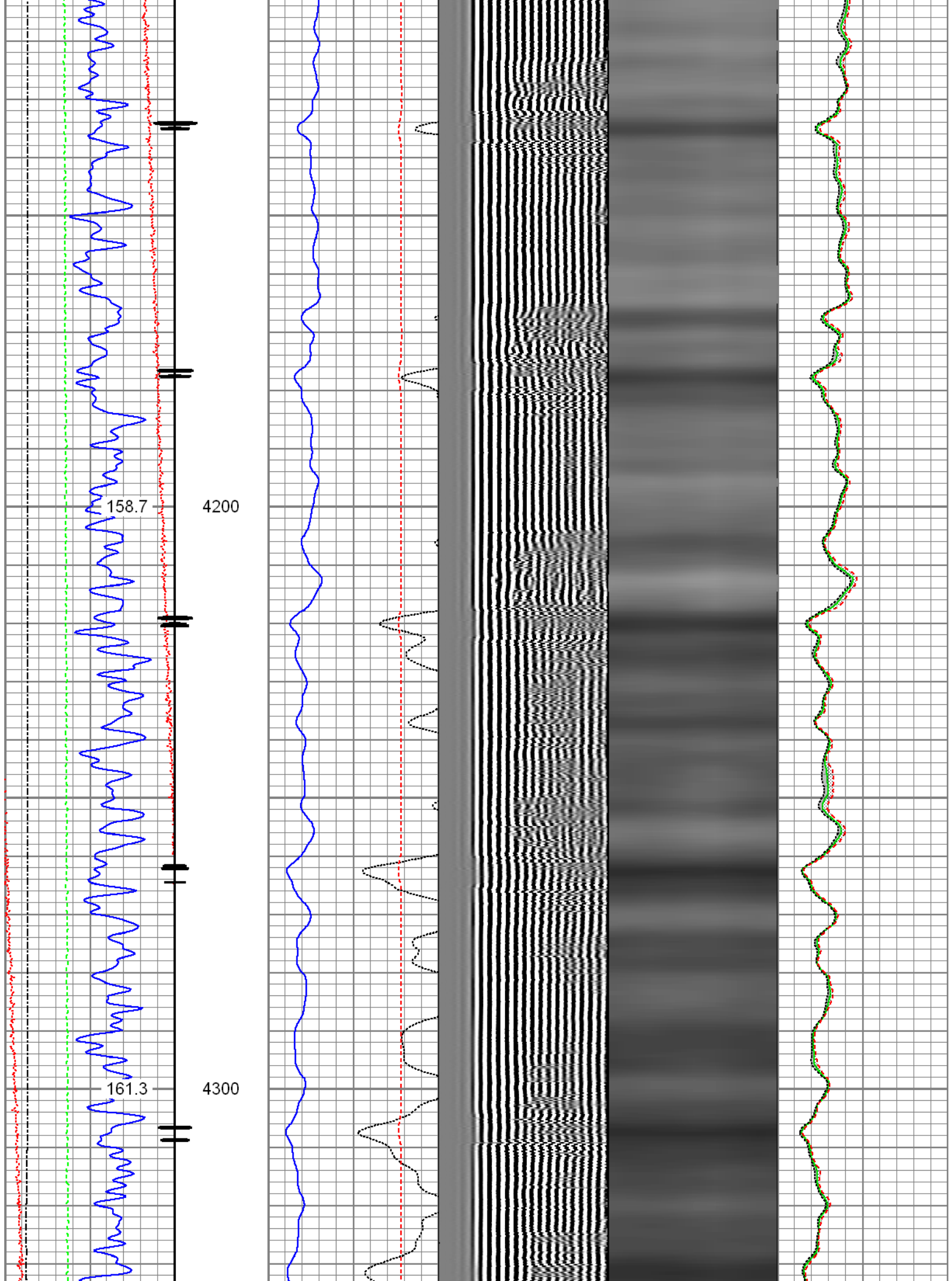


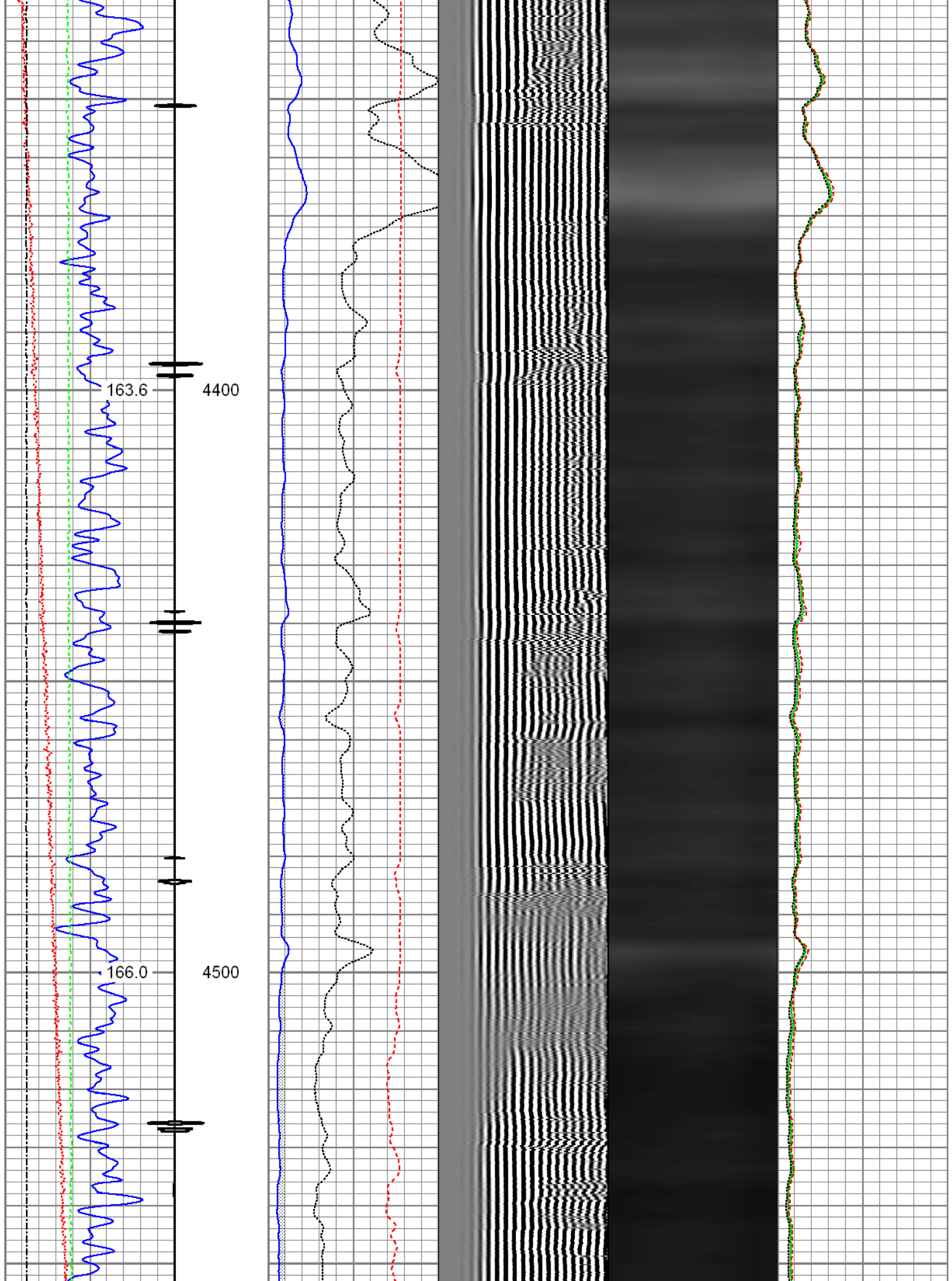


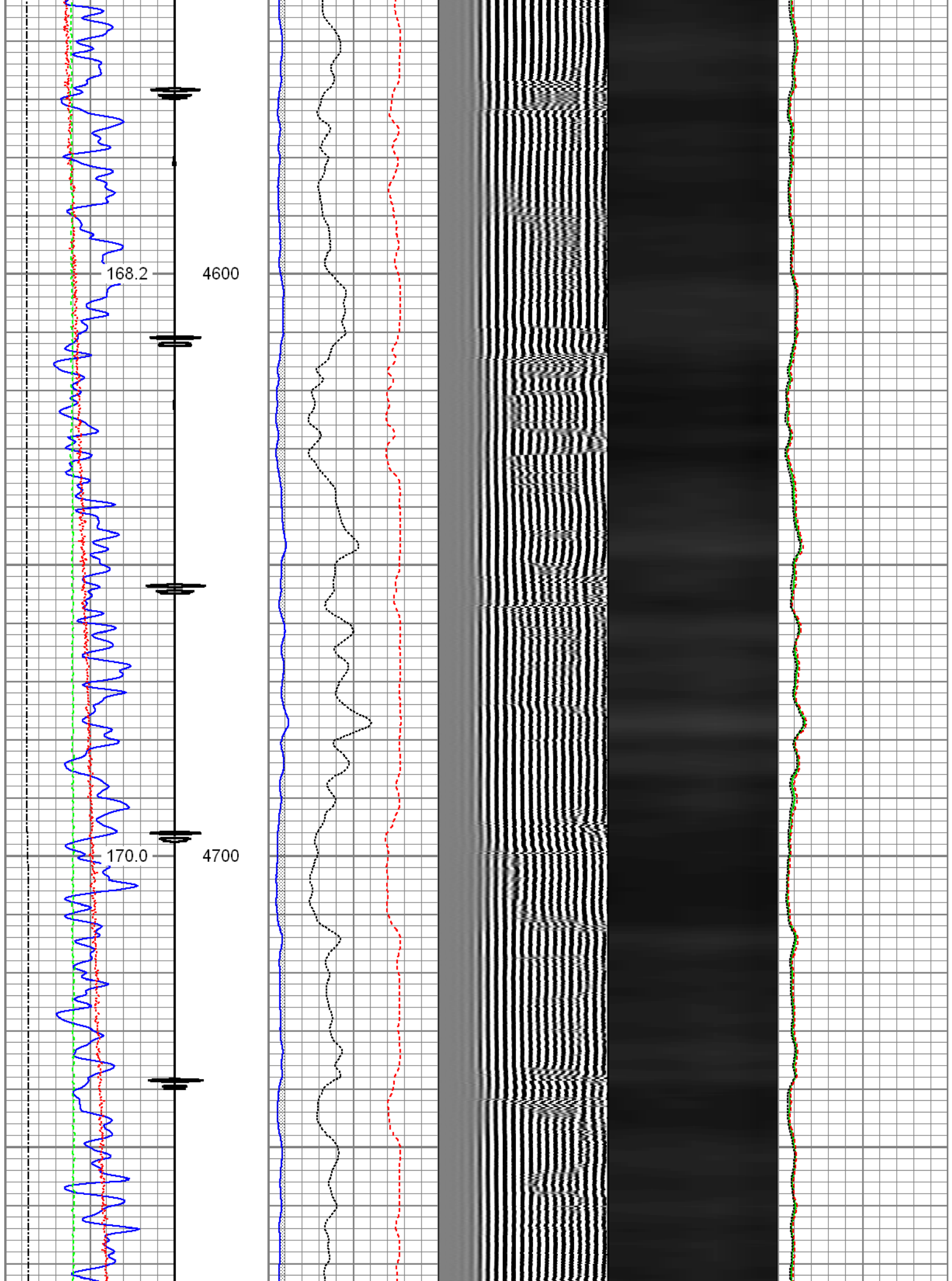


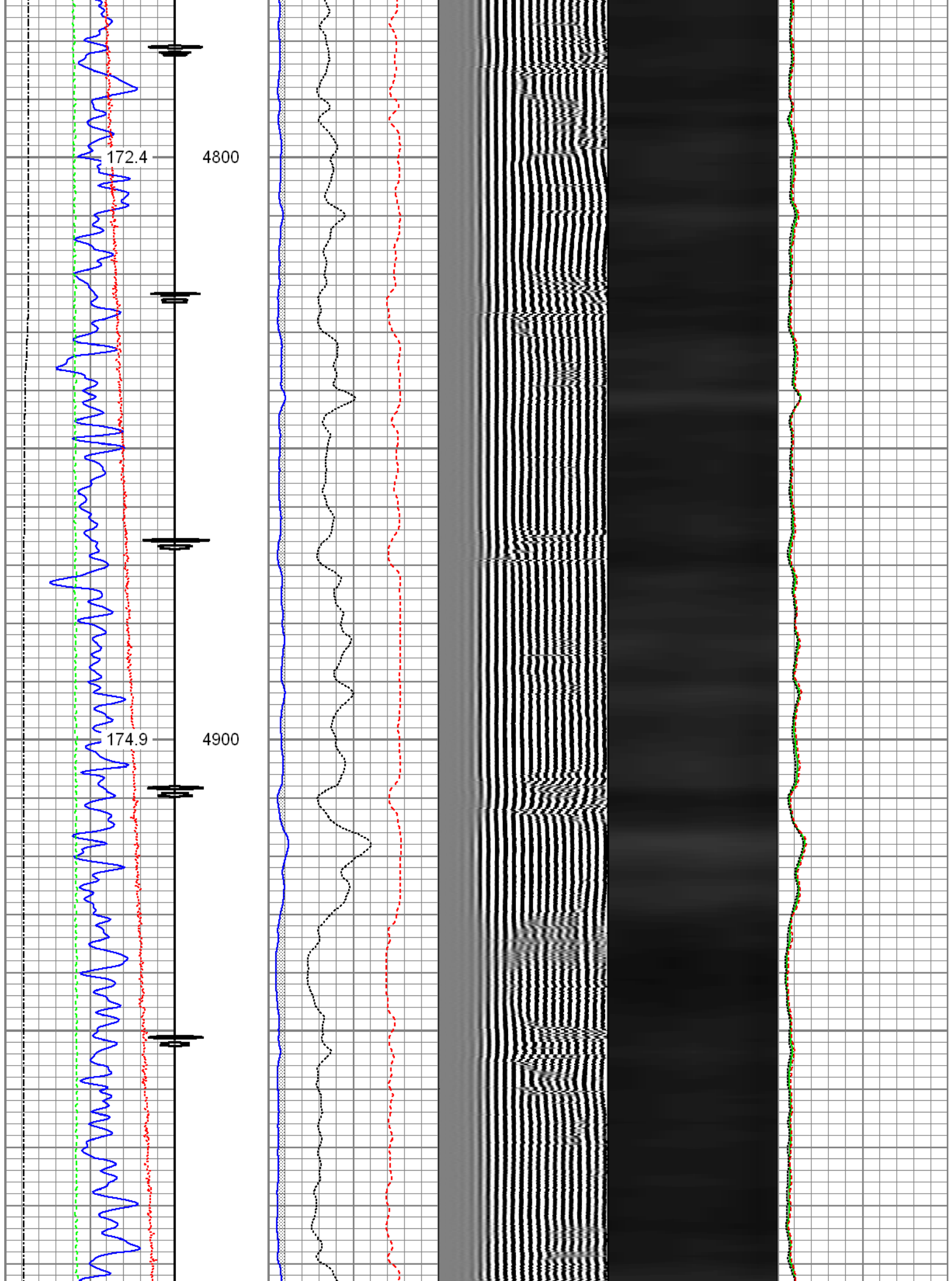


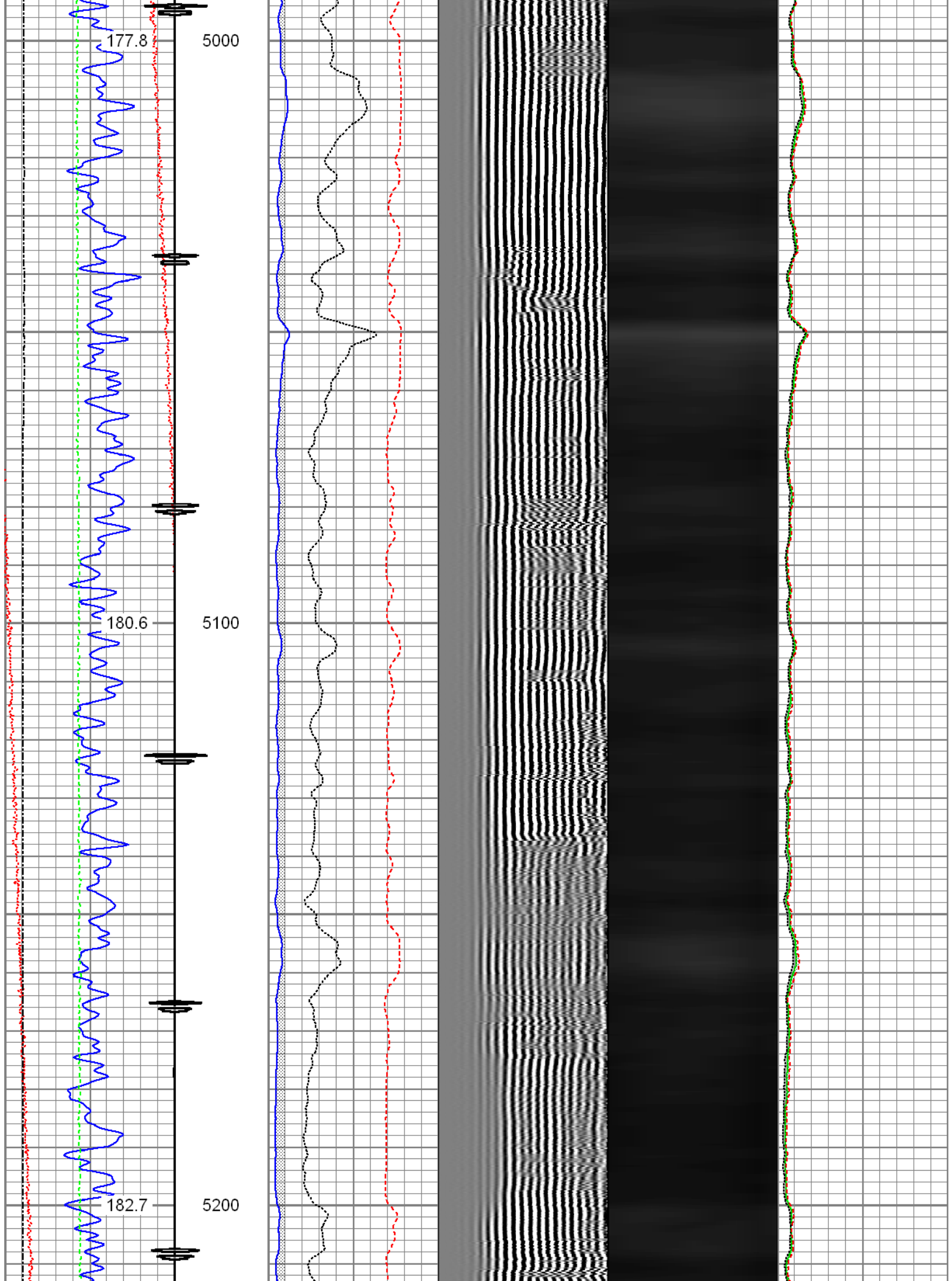


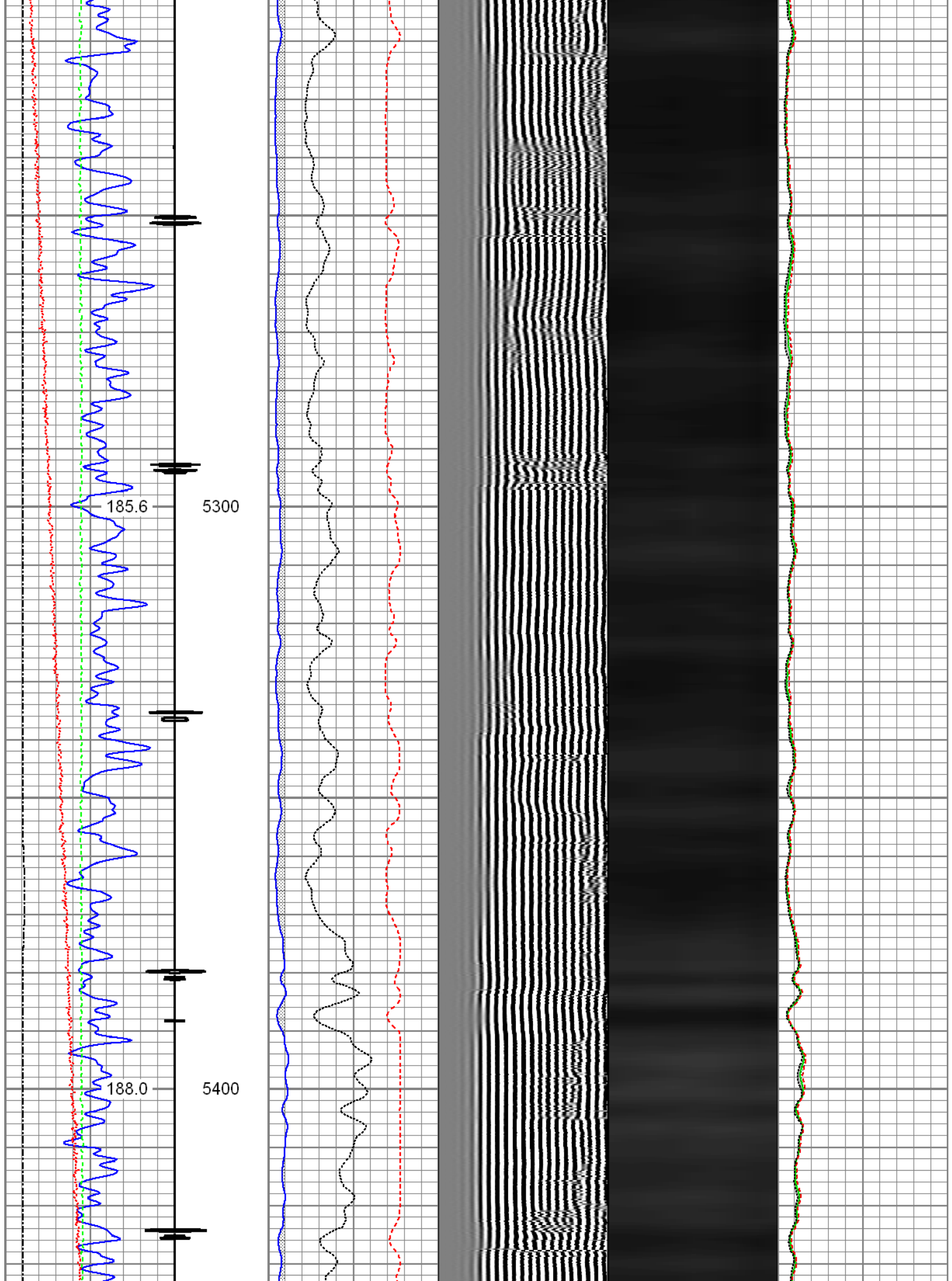


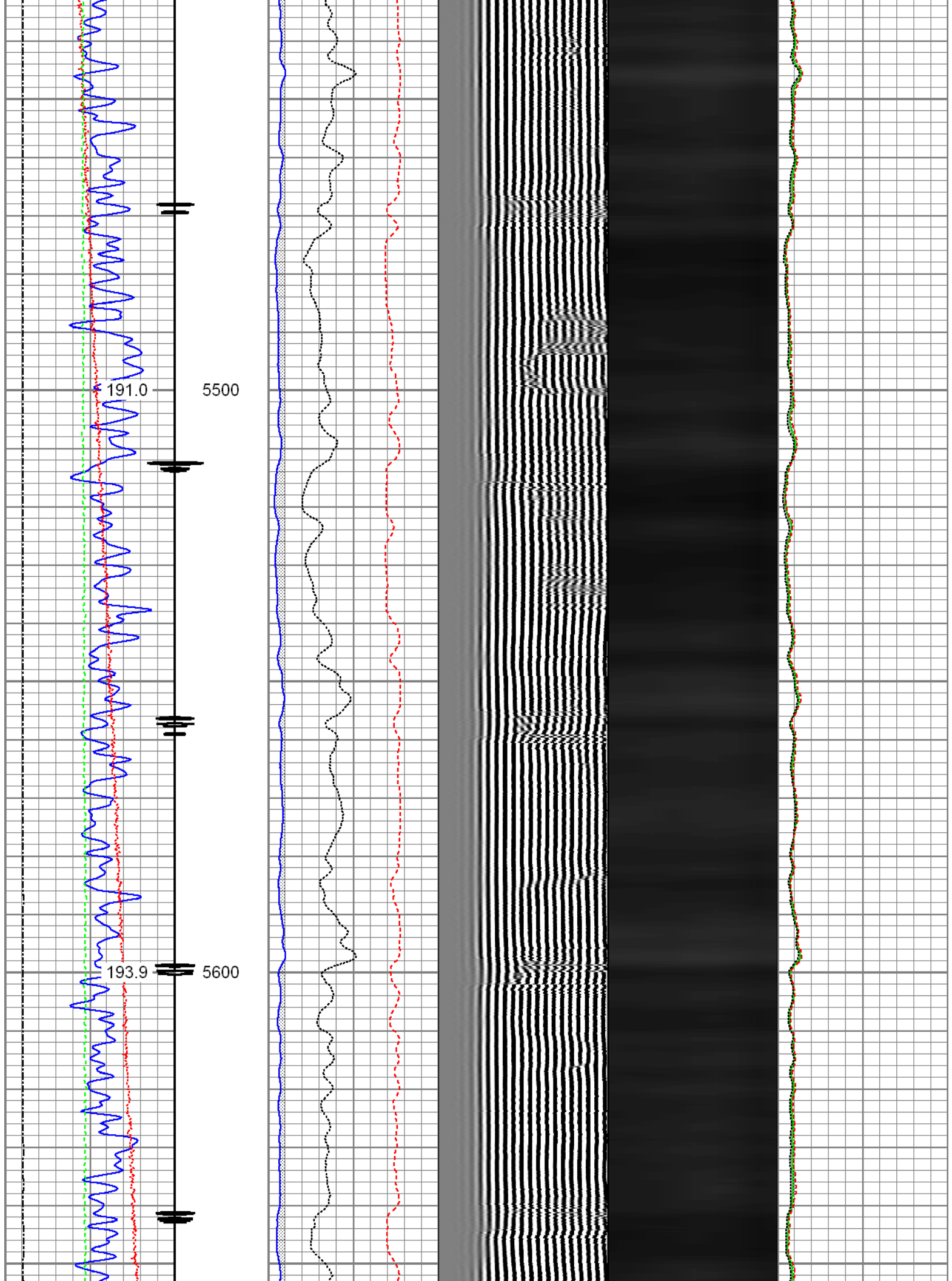


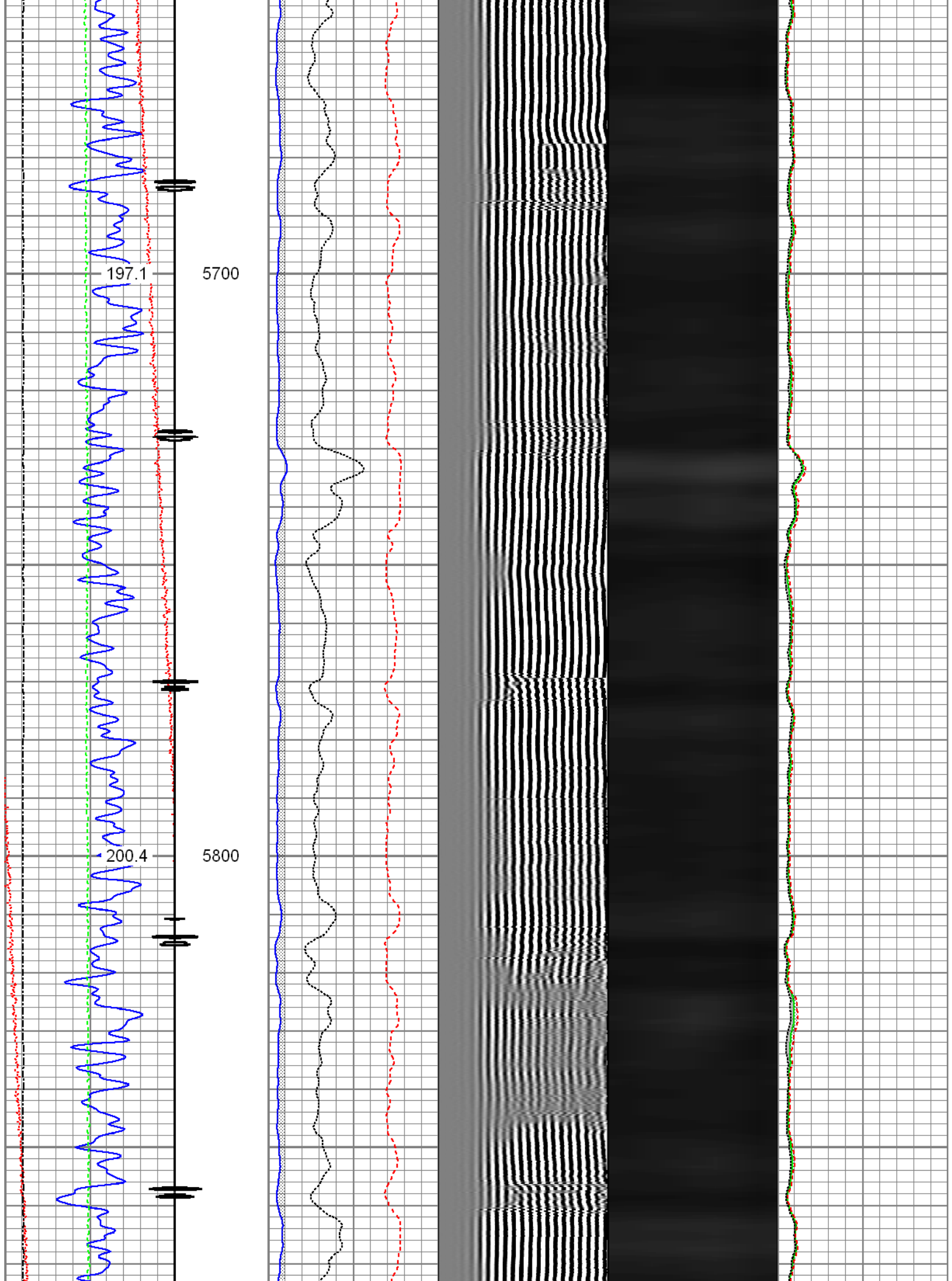


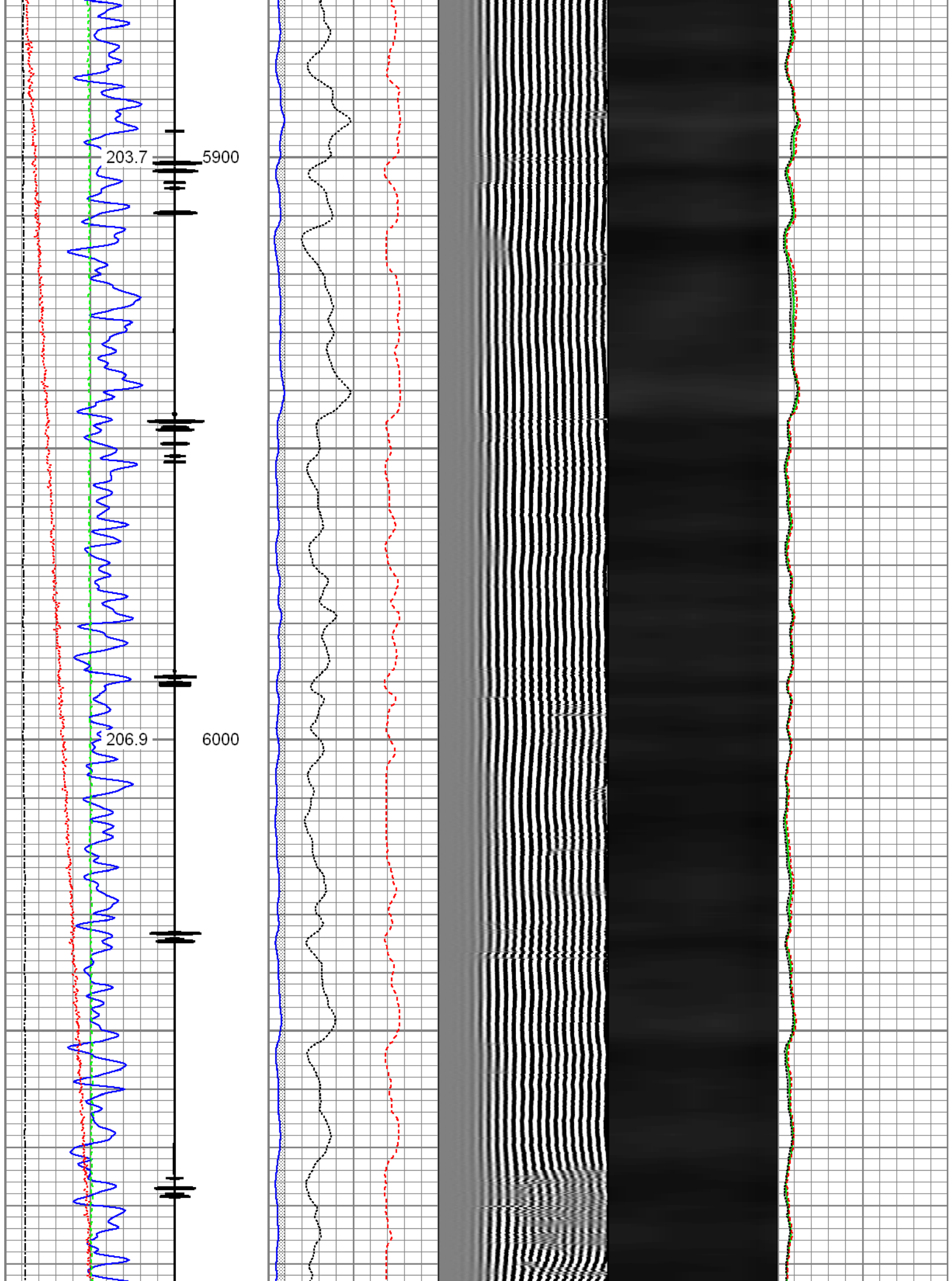


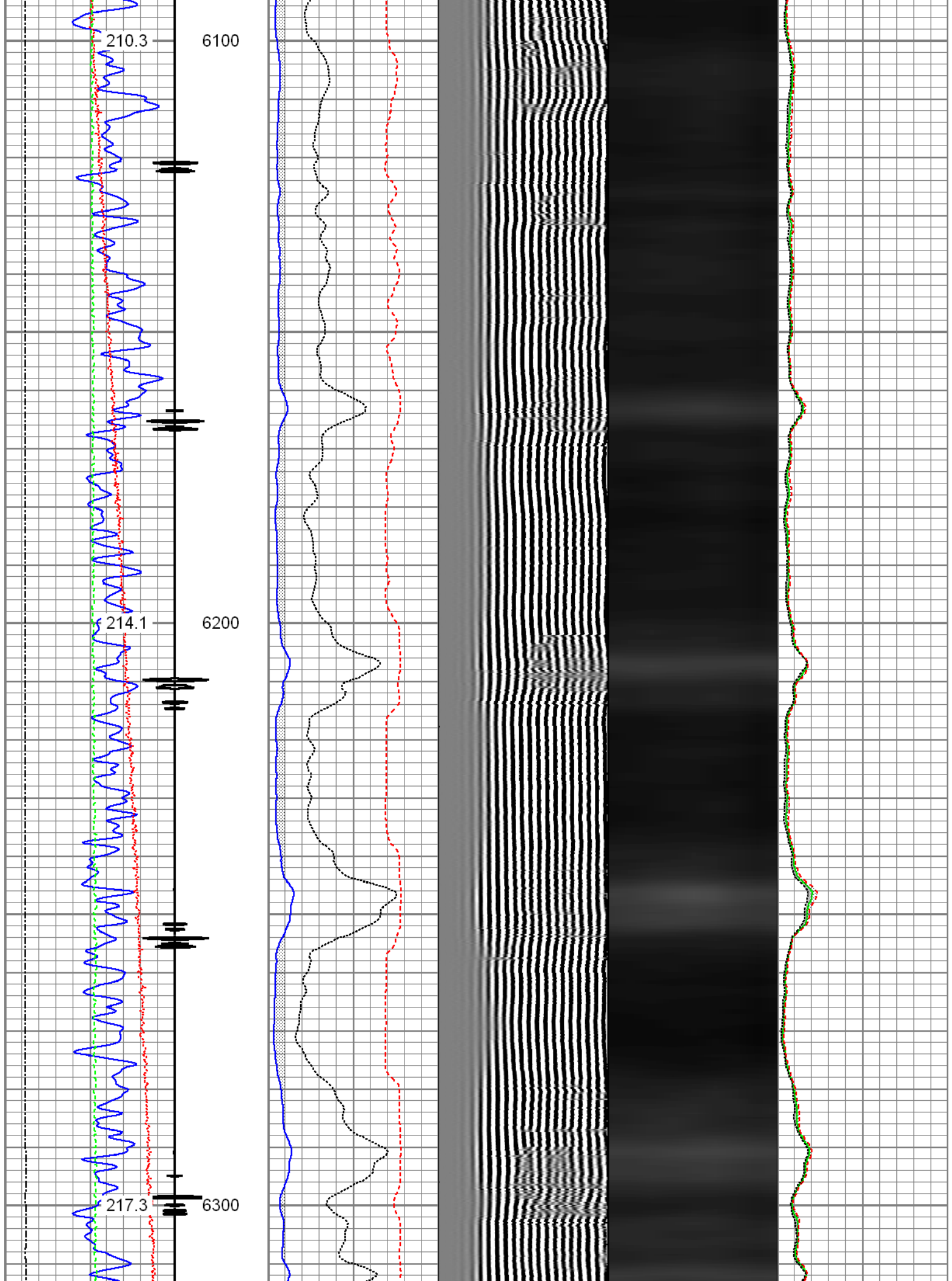


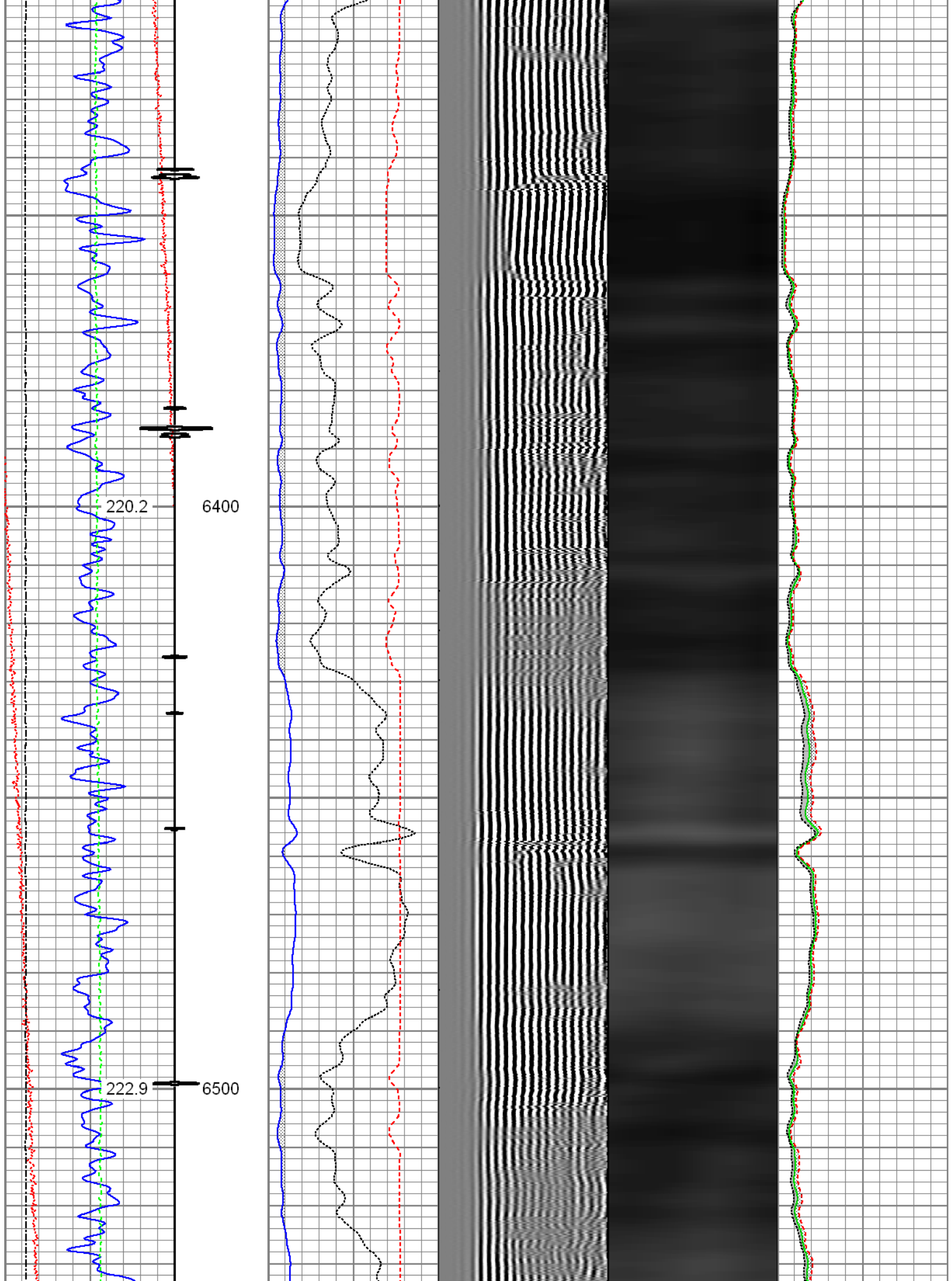


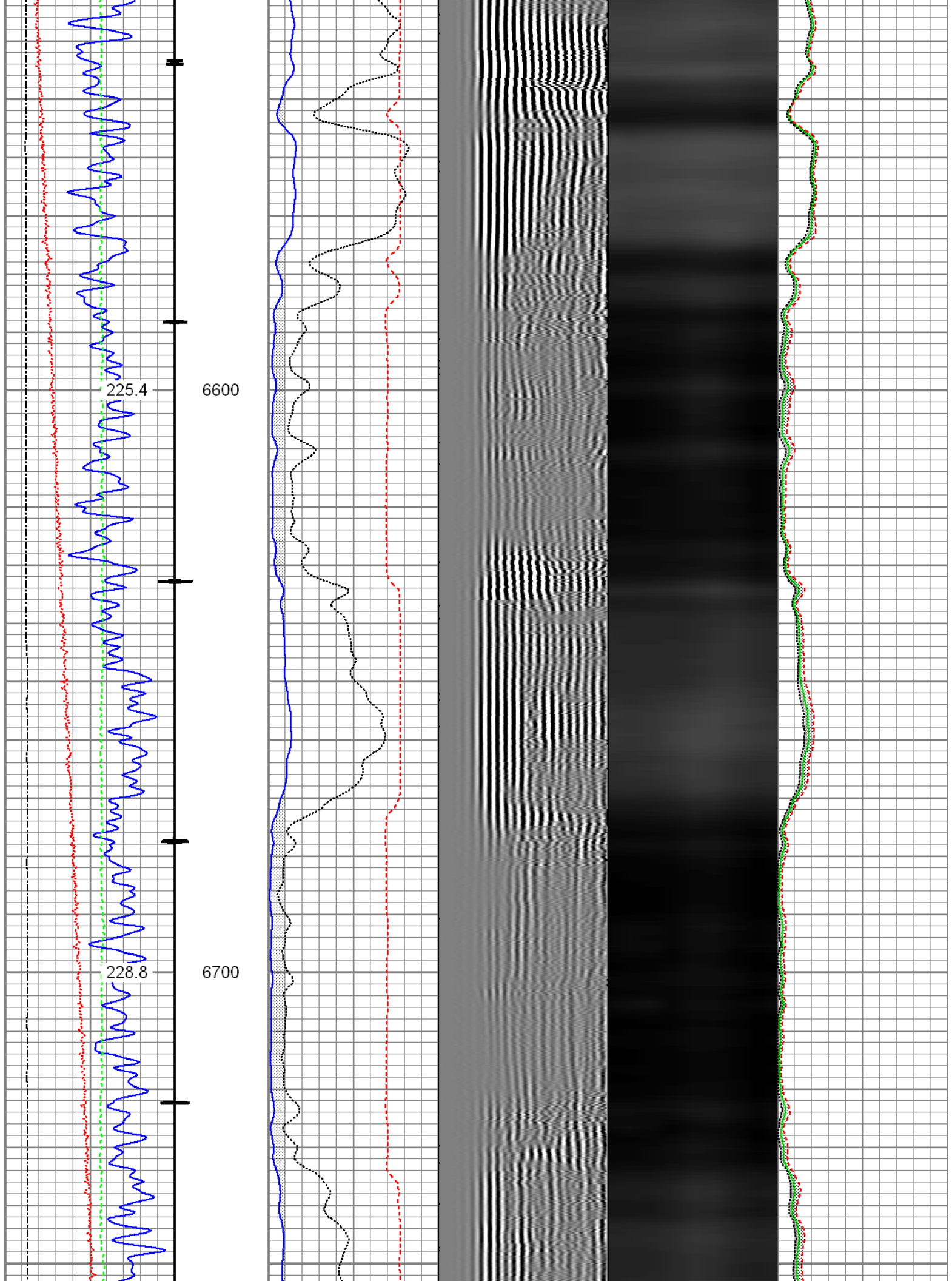


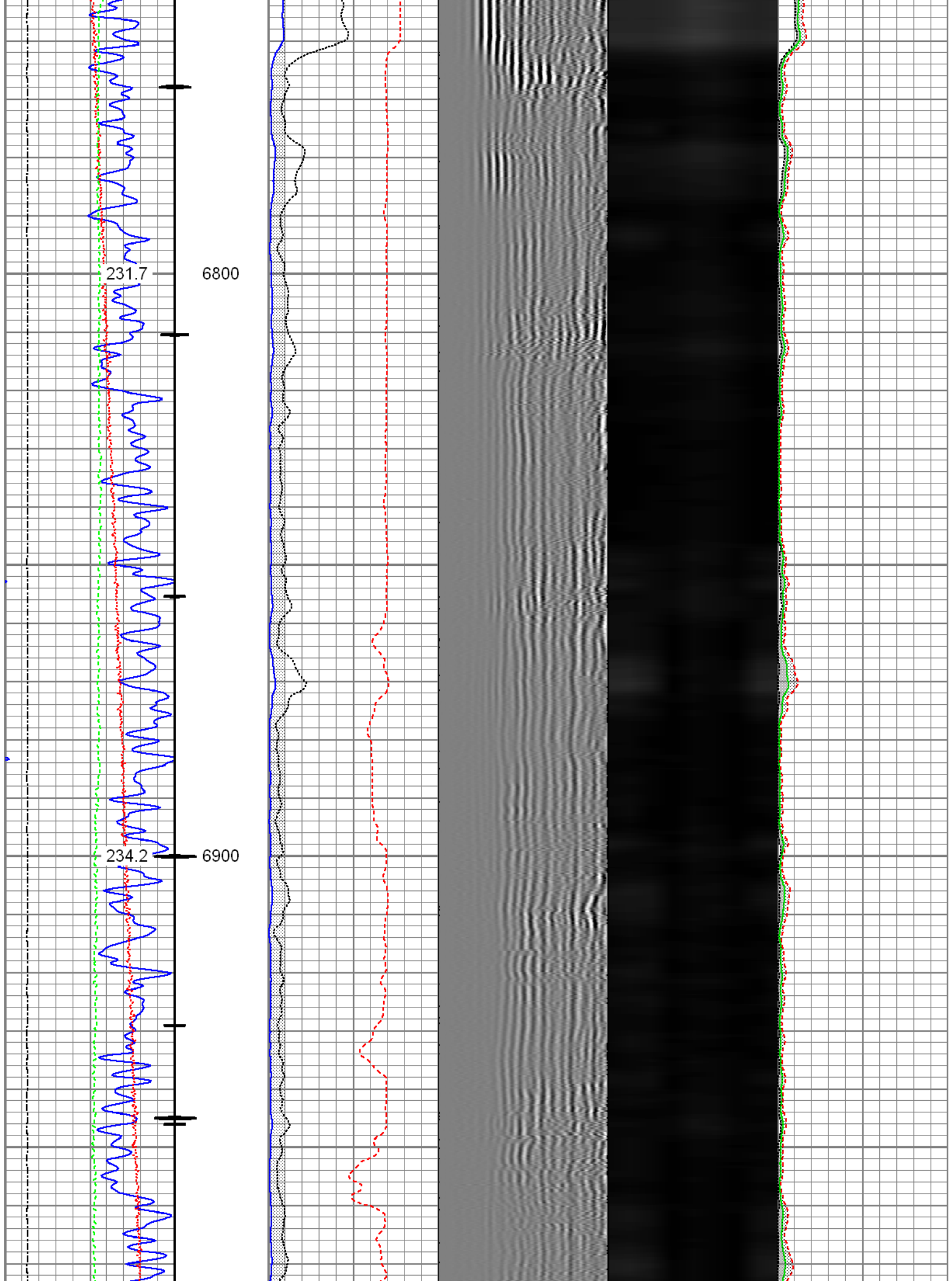


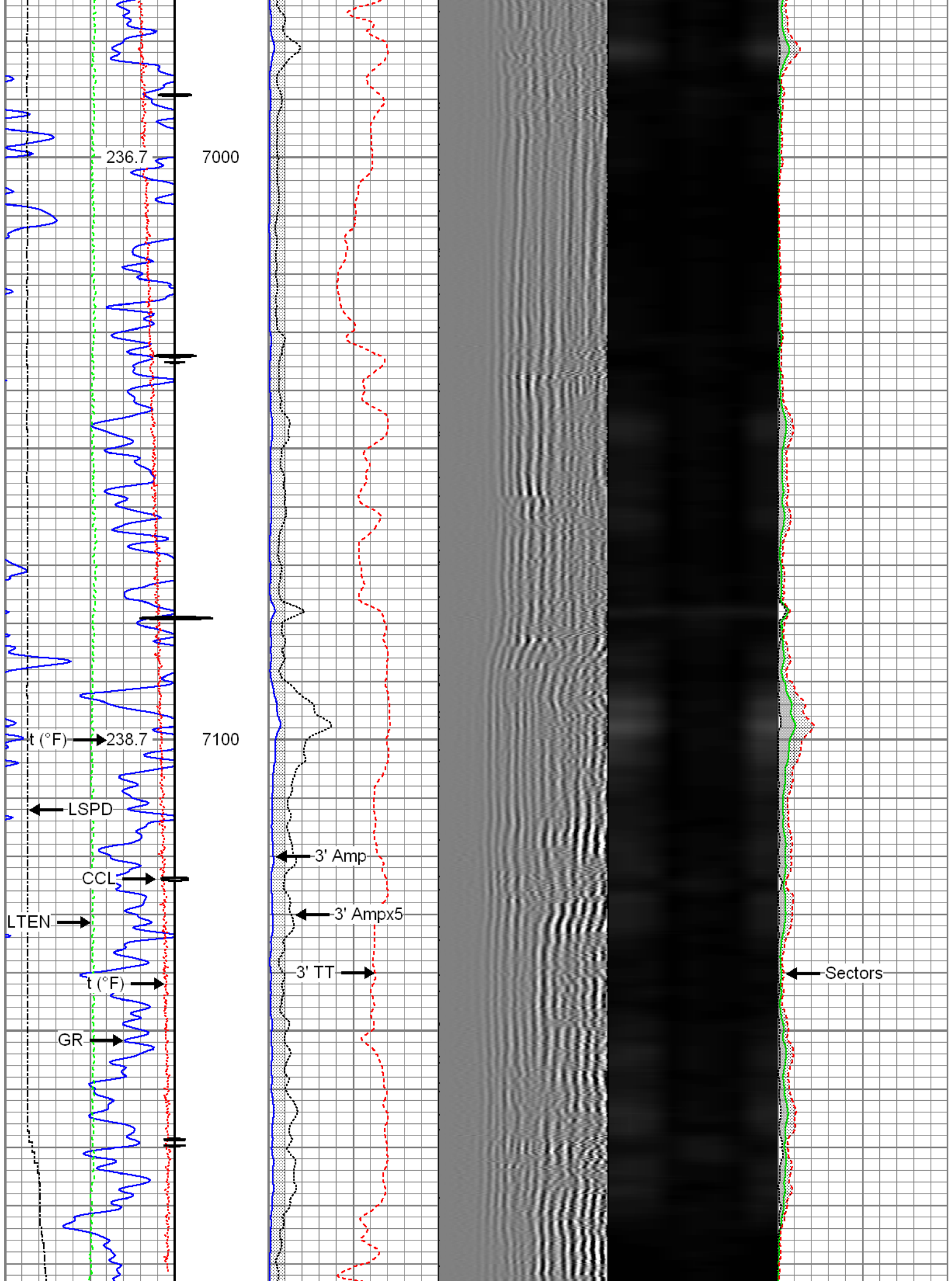


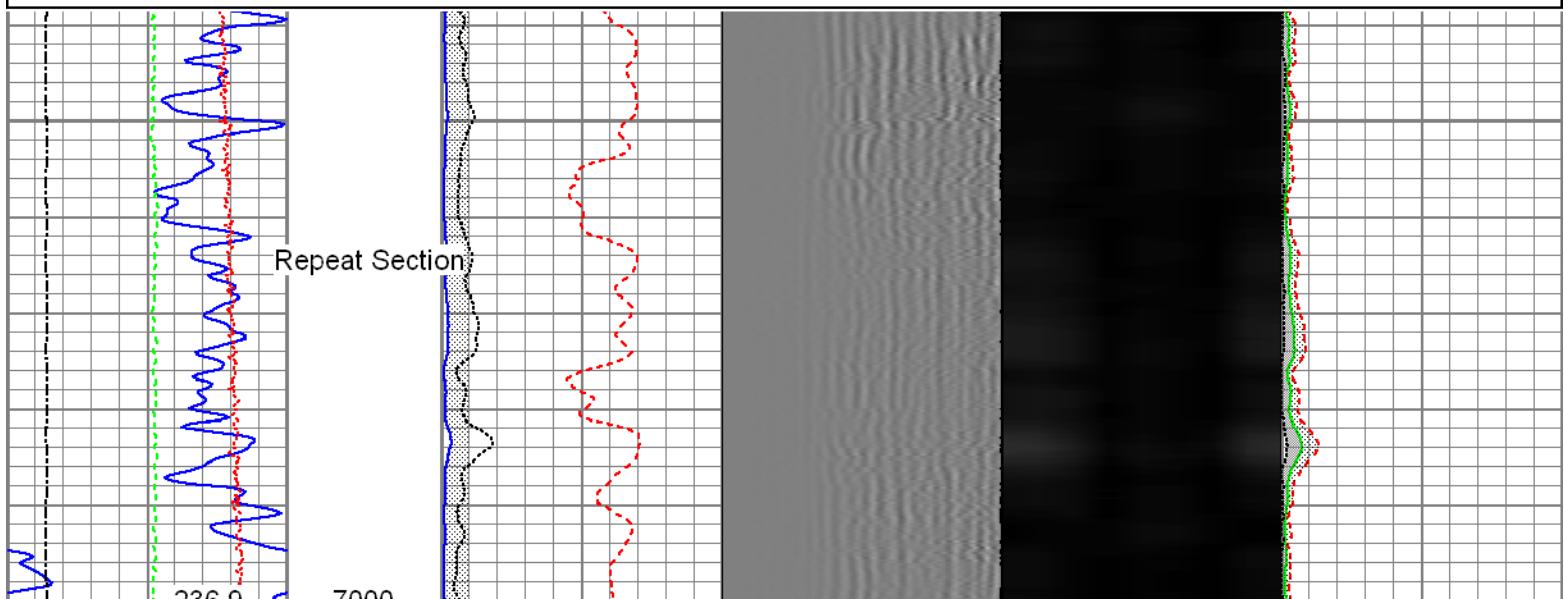
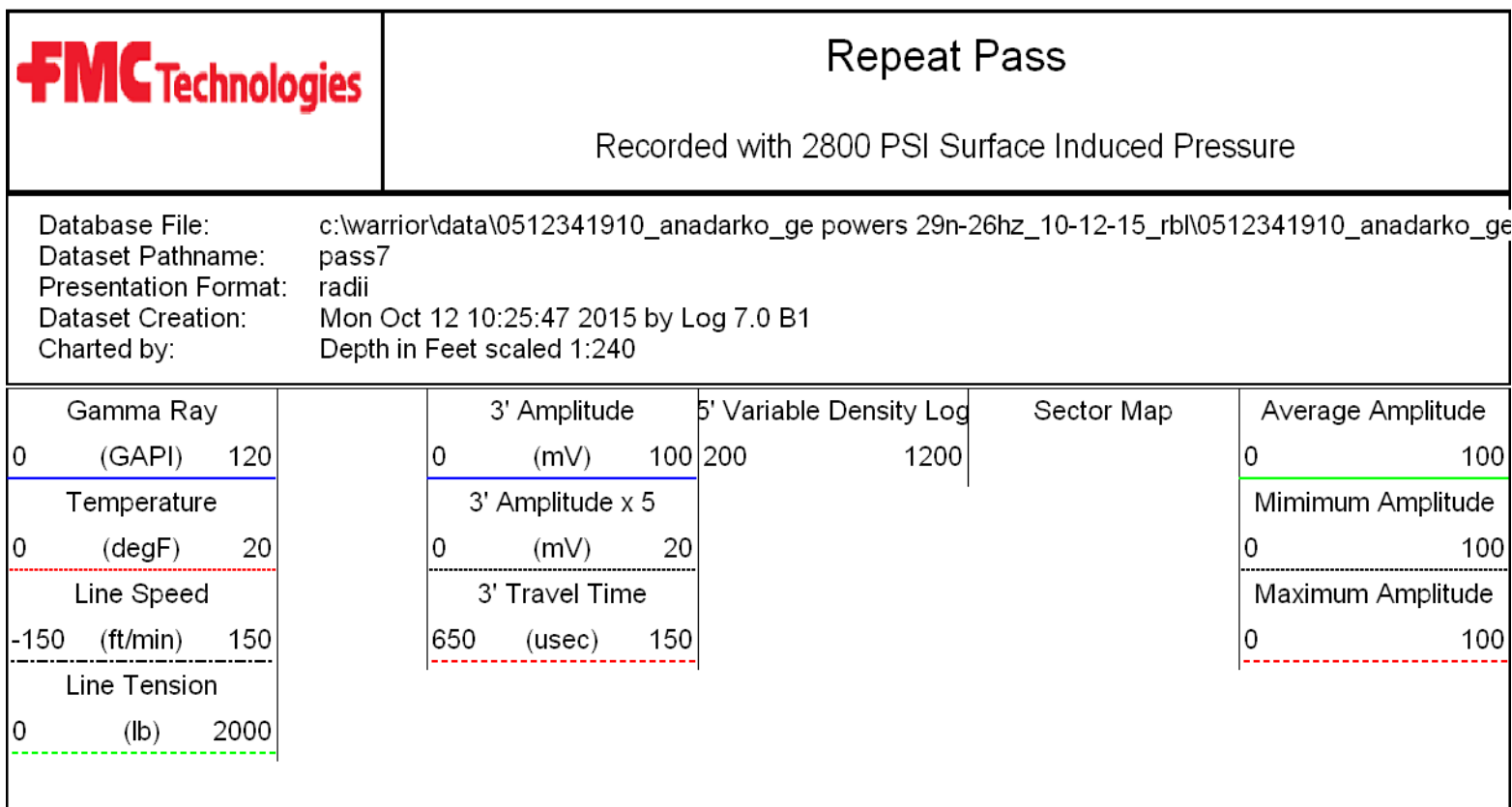
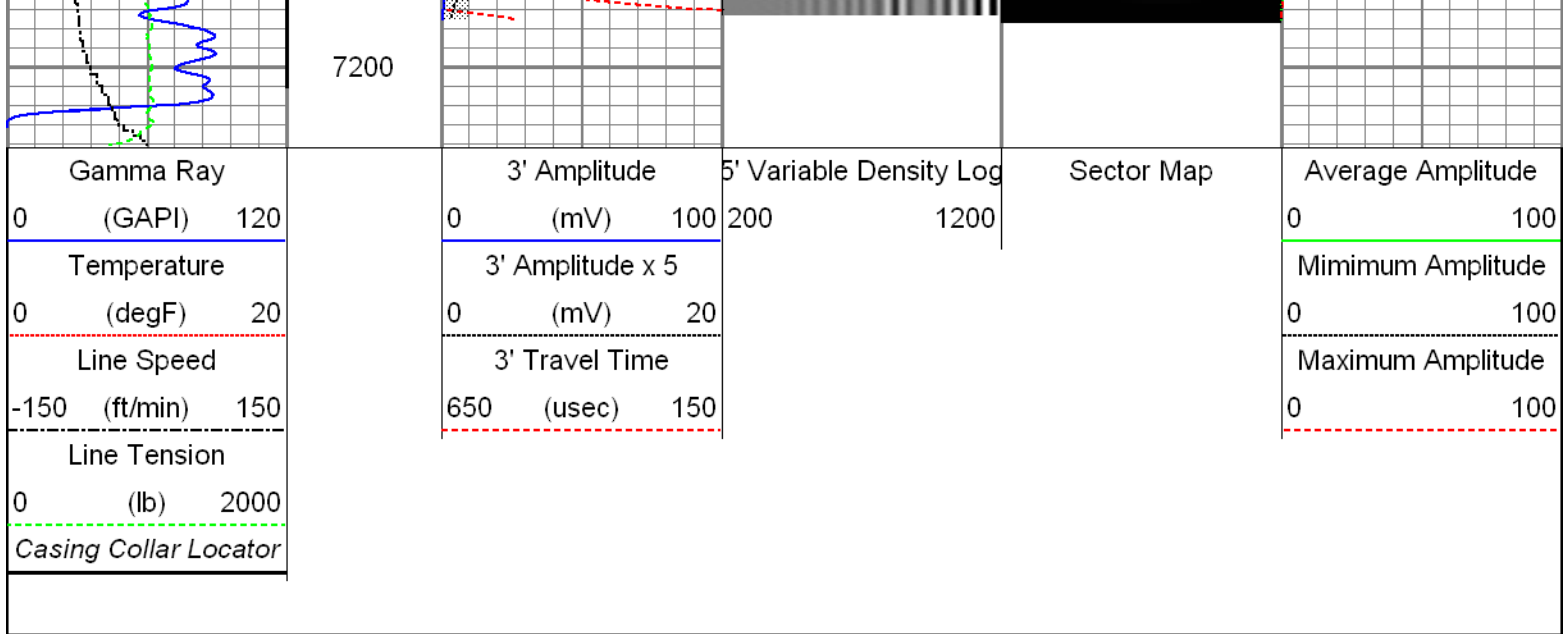


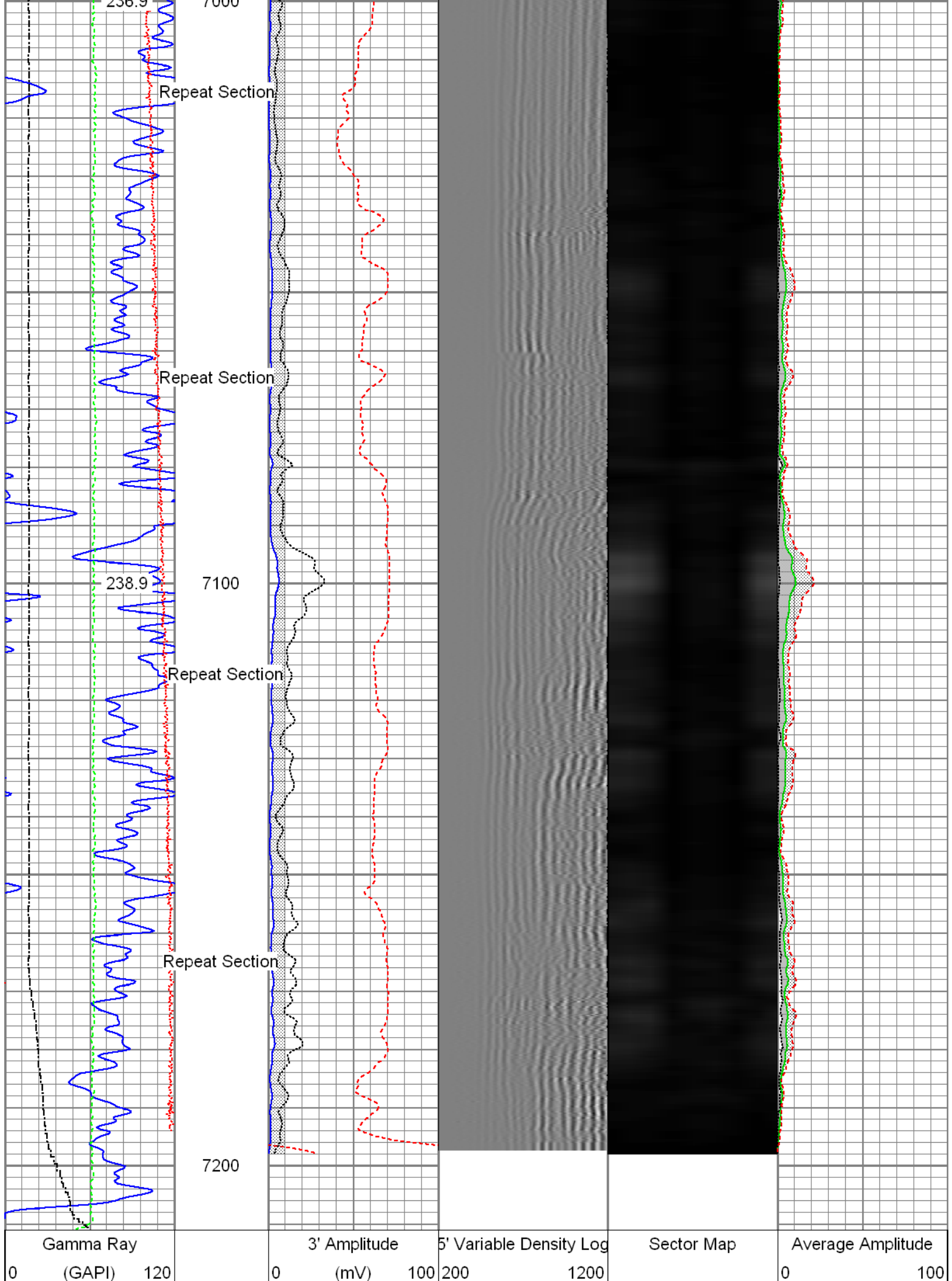




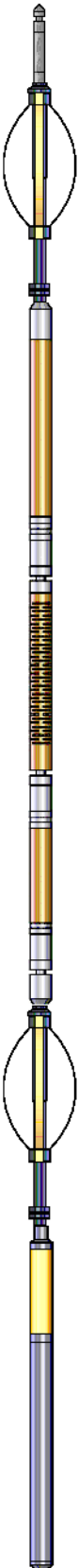
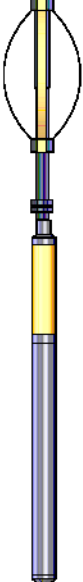
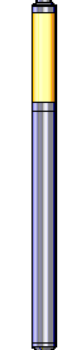








Temperature	3' Amplitude x 5	Mimimum Amplitude
0 (degF) 20	0 (mV) 20	0 100
Line Speed	3' Travel Time	Maximum Amplitude
-150 (ft/min) 150	650 (usec) 150	0 100
Line Tension		
0 (lb) 2000		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
HeadVolt	19.49		T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Temp	16.72					
WVF3FT	14.55		Probe_RADII-C-2-3/4" (FW1305-096) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00
WVFCAL	14.55					
WVFS1	14.55					
WVFS2	14.55					
WVFS3	14.55					
WVFS4	14.55					
WVFS5	14.55					
WVFS6	14.55					
WVFS7	14.55					
WVFS8	14.55					
WVF5FT	13.55					
CCL DCCL	6.51		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
	6.51		Probe_CCL_GR-2.75"Digital (FW1211-081) Probe 2-3/4" Digital CCL / Gamma Ray Combined	4.54	2.75	55.00
GR	3.77					



10.00

Dataset:	0512341910_Anadarko_GE Powers 29N-26HZ_10-12-15_RBL.db: field/well/run1/pass9
Total Length:	23.40 ft
Total Weight:	194.00 lb
O.D.	2.75 in

Database File: C:\Warrior\Data\0512341910_Anadarko_GE Powers 29N-26HZ_10-12-15_RBL\0512341910_Anadarko
Dataset Pathname: pass9
Dataset Creation: Mon Oct 12 10:31:28 2015 by Log 7.0 B1


Serial Number:	FW1211-081	
Tool Model:	2.75"Digital	
Performed:	Mon Oct 12 09:41:13 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

Serial Number:	FW1305-096	
Tool Model:	2-3/4"	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	7211.037	ft

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.690	0.800	71.921	103.145	0.716
CAL	0.001	0.745				
5'	0.001	0.655	0.800	71.921	108.660	0.707
SUM						
S1	0.000	0.678	0.000	100.000	147.649	-0.032
S2	0.000	0.690	0.000	100.000	145.091	-0.044
S3	0.000	0.696	0.000	100.000	143.780	-0.044
S4	0.001	0.693	0.000	100.000	144.487	-0.079
S5	0.001	0.690	0.000	100.000	145.022	-0.119
S6	0.001	0.686	0.000	100.000	145.981	-0.118
S7	0.001	0.685	0.000	100.000	146.197	-0.121
S8	0.001	0.684	0.000	100.000	146.362	-0.132

Results

	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.745	1.000	0.000
Air Zero Calibration, performed Mon Oct 12 10:25:37 2015:						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.001		0.000		0.000	
5'	0.001		0.000		0.000	
SUM						
S1	0.000		0.000		-0.000	
S2	0.001		0.000		-0.000	
S3	0.001		0.000		-0.000	
S4	0.001		0.000		-0.000	
S5	0.001		0.000		0.000	
S6	0.001		0.000		0.000	
S7	0.001		0.000		0.000	
S8	0.001		0.000		0.000	

	Company	Kerr-McGee Oil & Gas OnShore L.P.
	Well	GE Powers 29N-26HZ
	Field	Wattenberg
	County	Weld
	State	Colorado