



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company		Kerr-McGee Oil & Gas Onshore, L.P.	
Well		Champlin 203 Amoco 'A' 1	
Field		Wattenberg	
County		Weld	
State		Colorado	
Company		Kerr-McGee Oil & Gas Onshore, L.P.	
Well		Champlin 203 Amoco 'A' 1	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API #: 05-123-14601	
SEC 5		TWP 3N	
RGE 66W		Other Services	
Permanent Datum		Ground Level	
Log Measured From		Kelly Bushing	
Drilling Measured From		Kelly Bushing	
Elevation		K.B. 4790'	
Elevation		D.F. 4789'	
Elevation		G.L. 4780'	
Date		04-Feb-2016	
Run Number		One	
Depth Driller		7971 FT	
Depth Logger		6035 FT	
Bottom Logged Interval		6031 FT	
Top Log Interval		Surface	
Open Hole Size		7.875"	
Type Fluid		Water	
Density / Viscosity		8.34 lbm/gal	
Max. Recorded Temp.		214°F	
Estimated Cement Top		604 FT	
Time Well Ready		ROA	
Time Logger on Bottom		8:17 A.M.	
Equipment Number		HD-0325	
Location		Fort Lupton, CO	
Recorded By		J. Morrison	
Witnessed By		Chris Row	
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		24	
Intermediate #2		---	
Liner		5 1/2	
Marker Joint		17	
N-80		Surface	
7965 FT			

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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 Bran-de X Log
Adjusted log -7 FT to correlate with Bran-de X Log
Log ran from 6031 FT to surface
Recorded with 0 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations

Thank you for choosing FMC Technologies Surface Integrated Services.



Main Pass

Recorded with 0 PSI Surface Induced Pressure

Database File:z:\logs_for_processing\logs to be sent\0512314601_anadarko_champlin 203 amoco 'a' 1_02-04-16_r

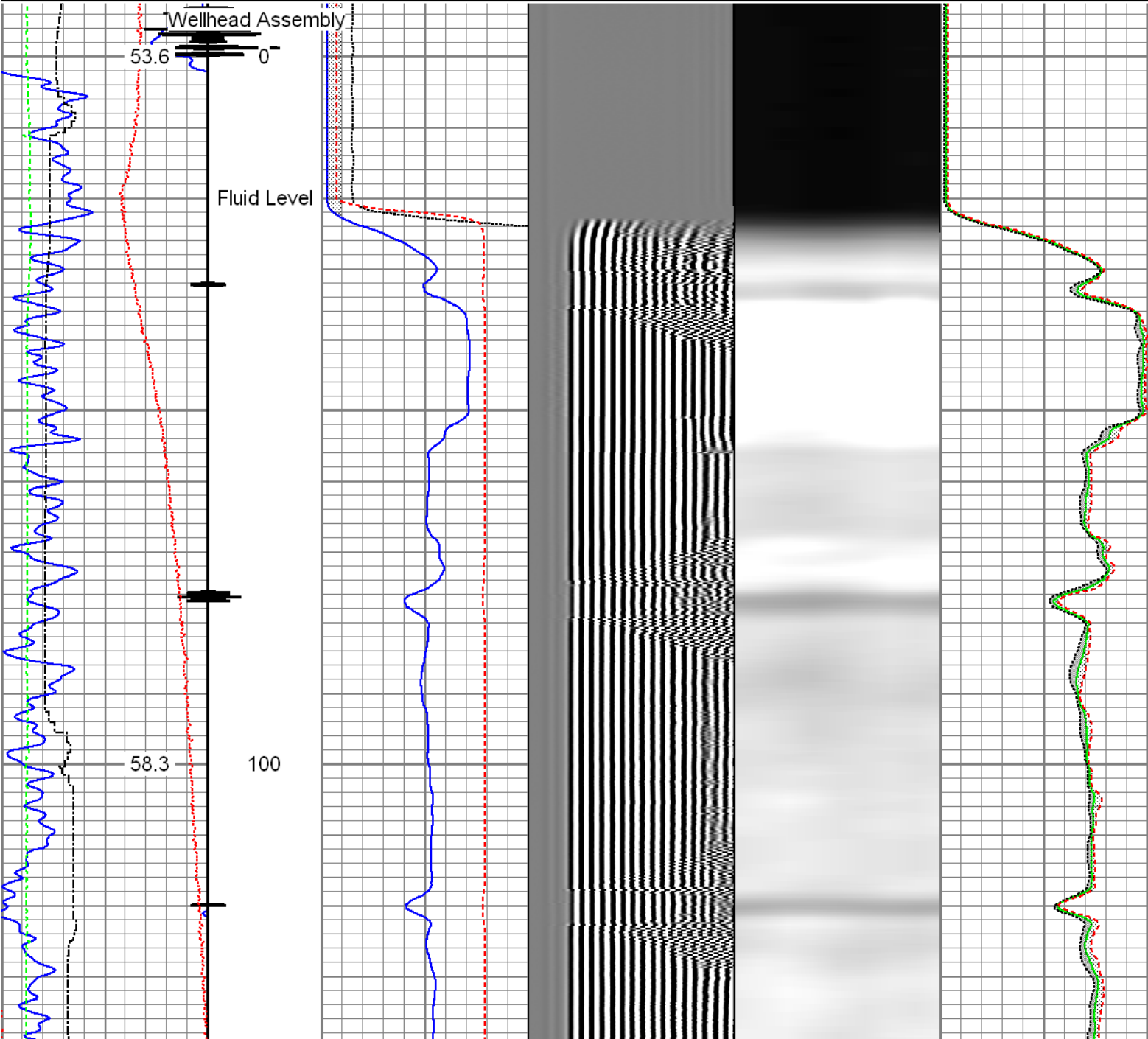
Dataset Pathname:merge3.1

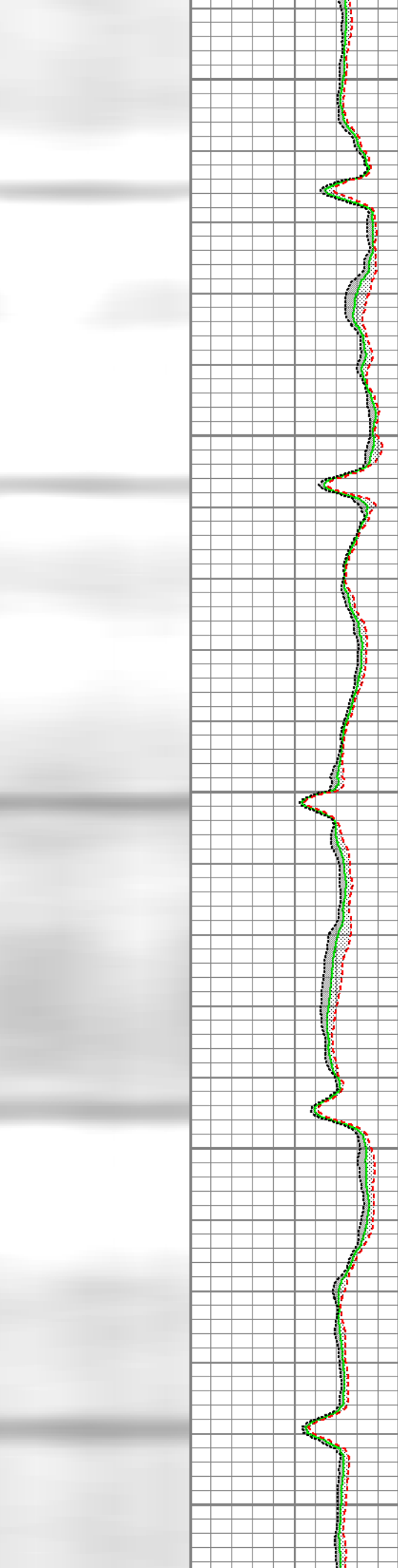
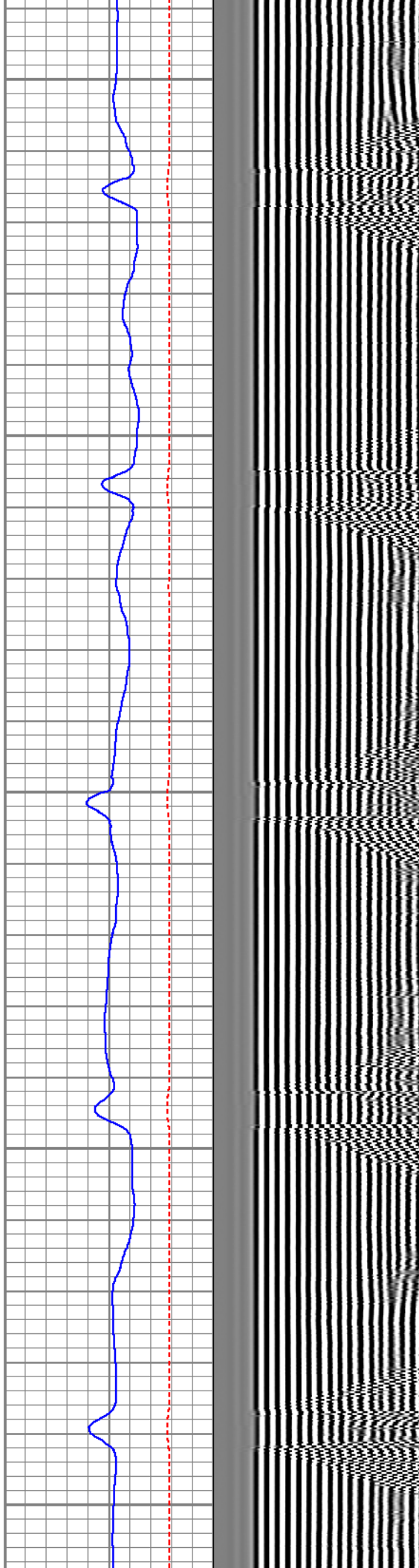
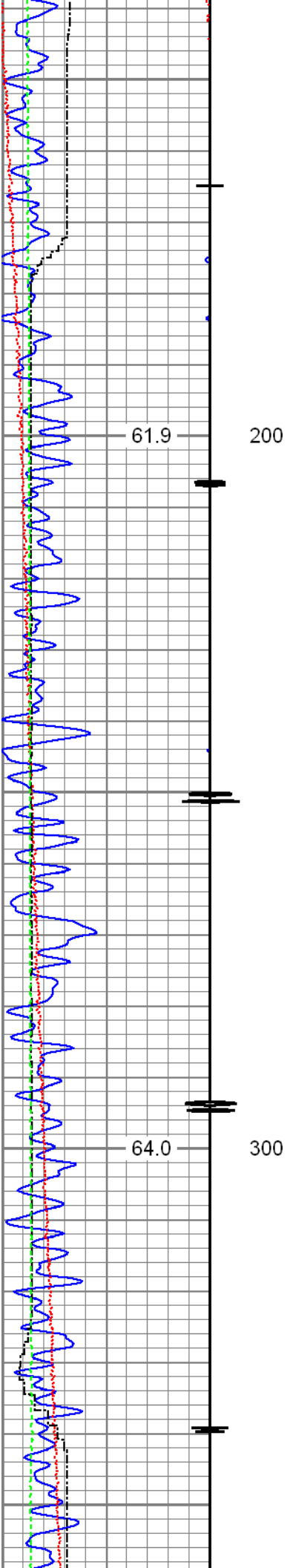
Presentation Format:radi_vert

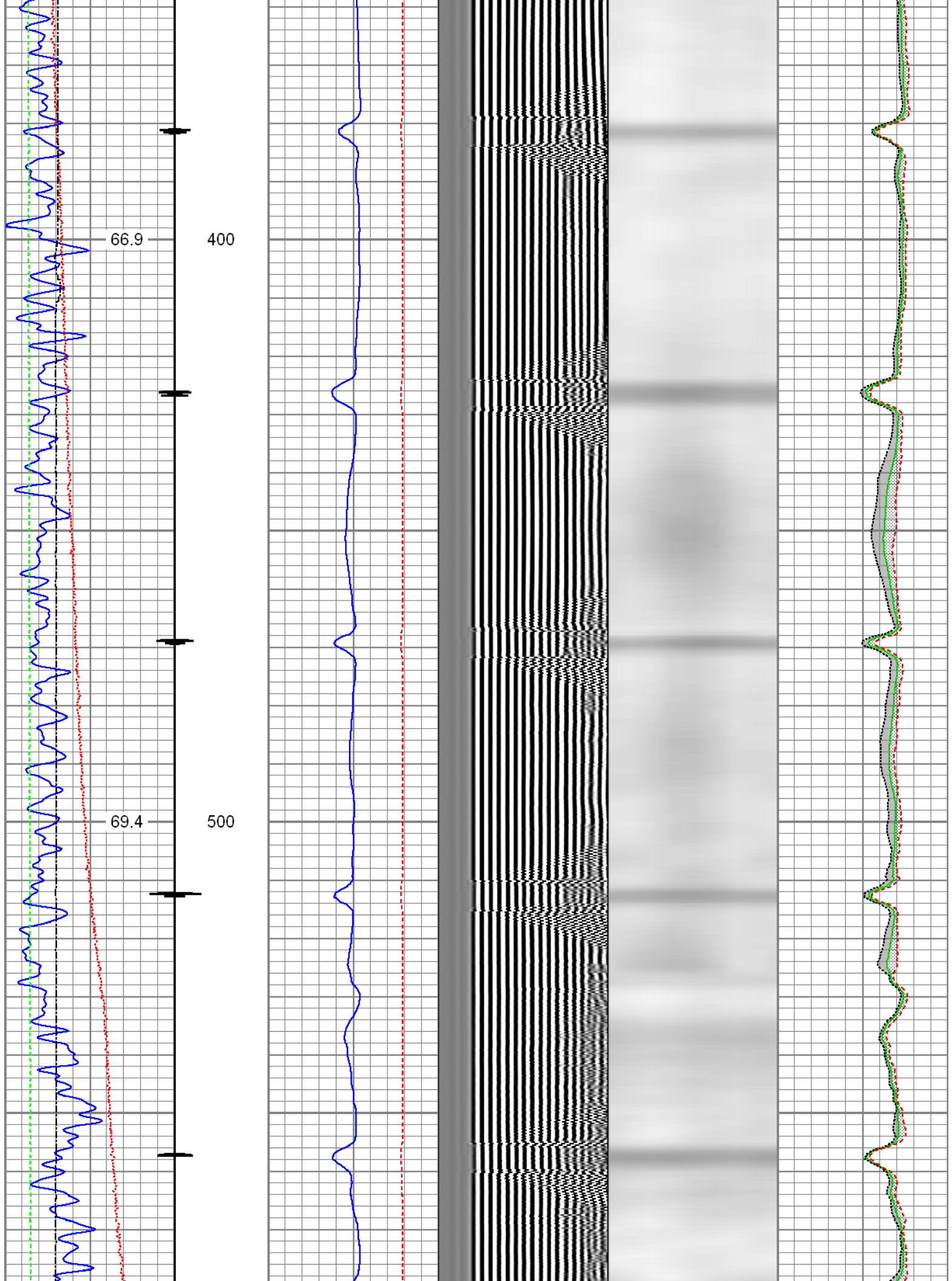
Dataset Creation:Thu Feb 04 12:21:34 2016 by Calc 7.0 B1

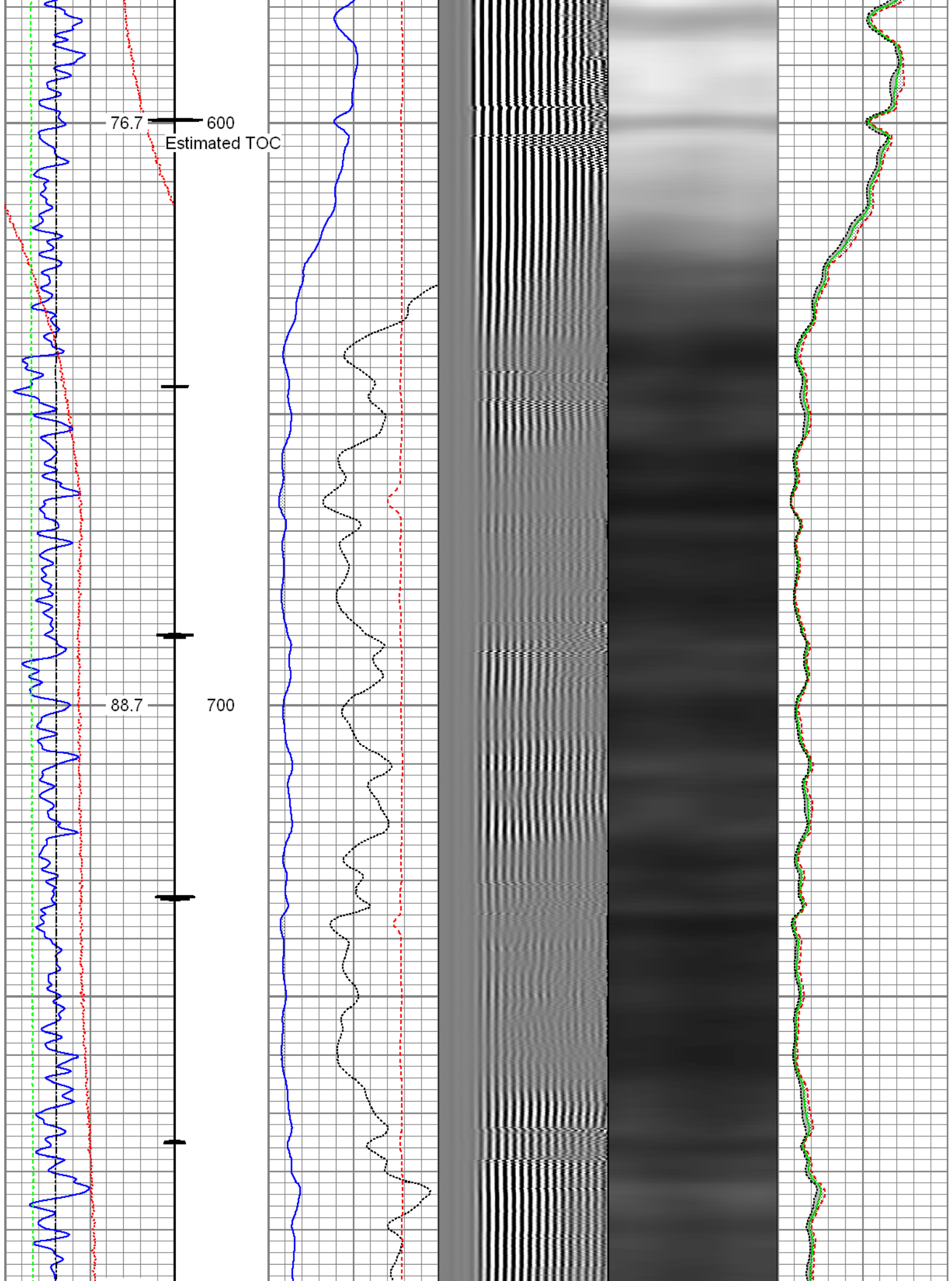
Charted by:Depth in Feet scaled 1:240

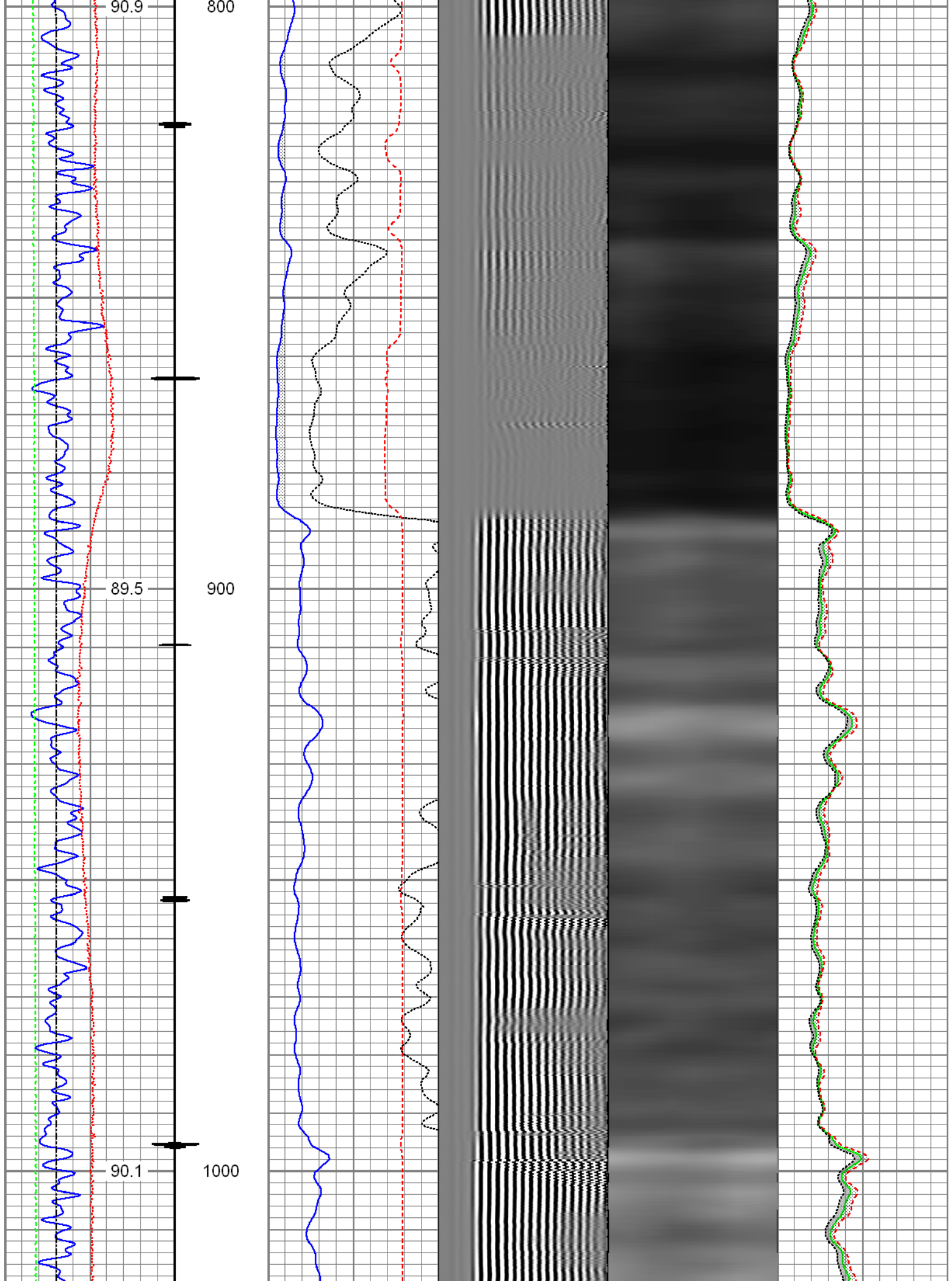
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
30 (GAPI) 130	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
Temperature	0 (mV) 20			0 100
0 (degF) 20	3' Travel Time			Maximum Amplitude
Line Speed	650 (usec) 150			0 100
-150 (ft/min) 150				
Line Tension				
0 (lb) 2000				

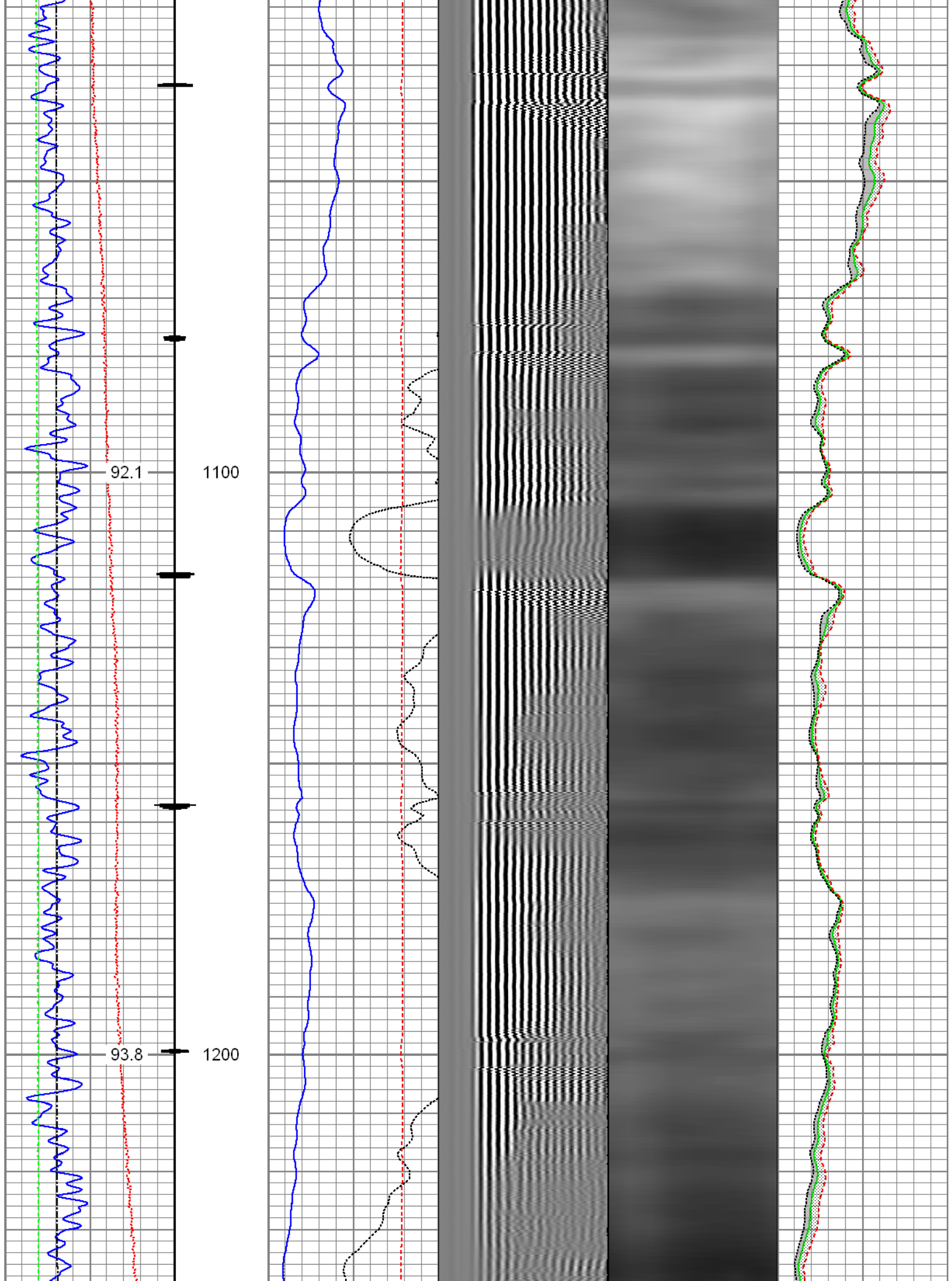


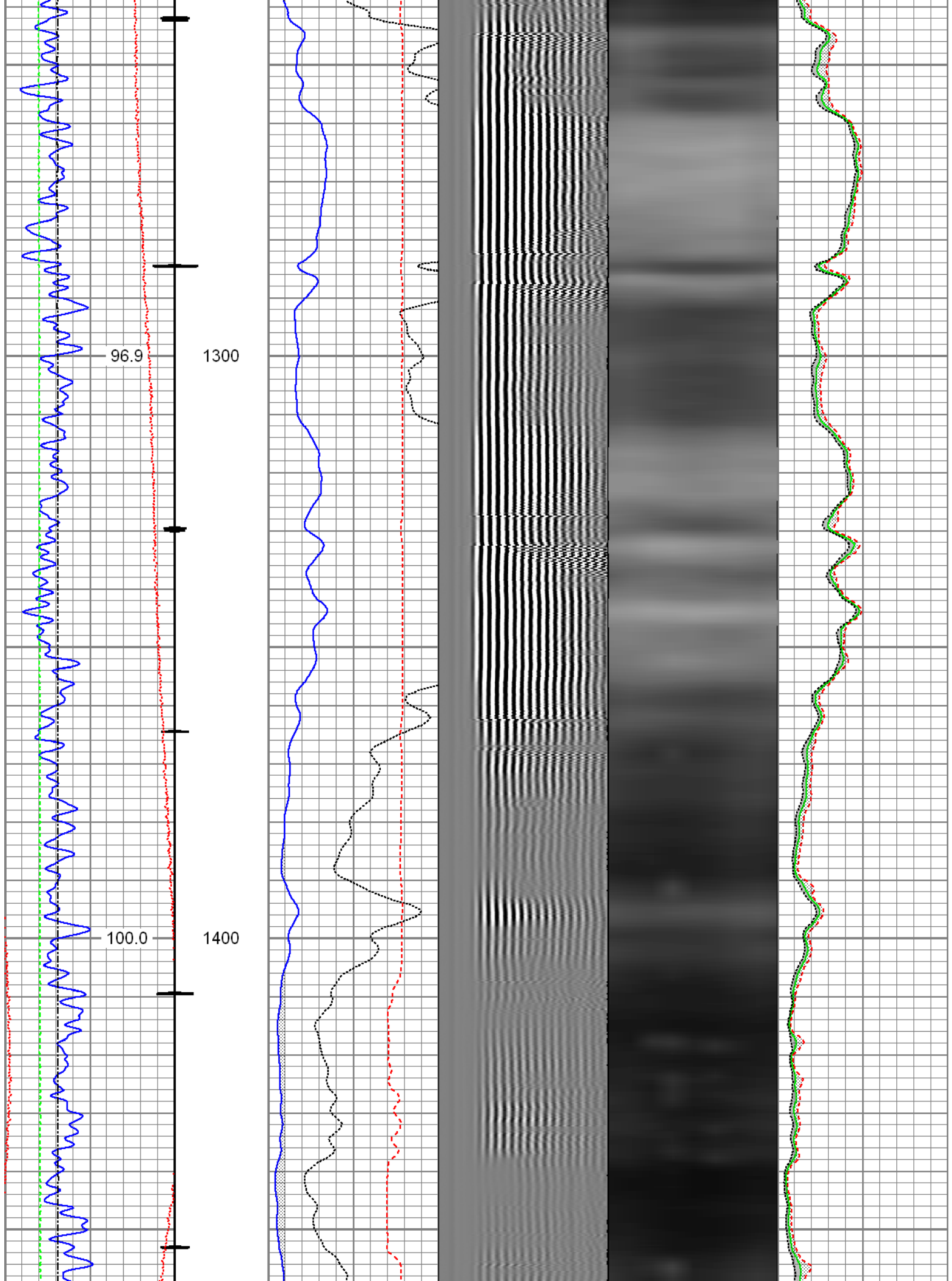


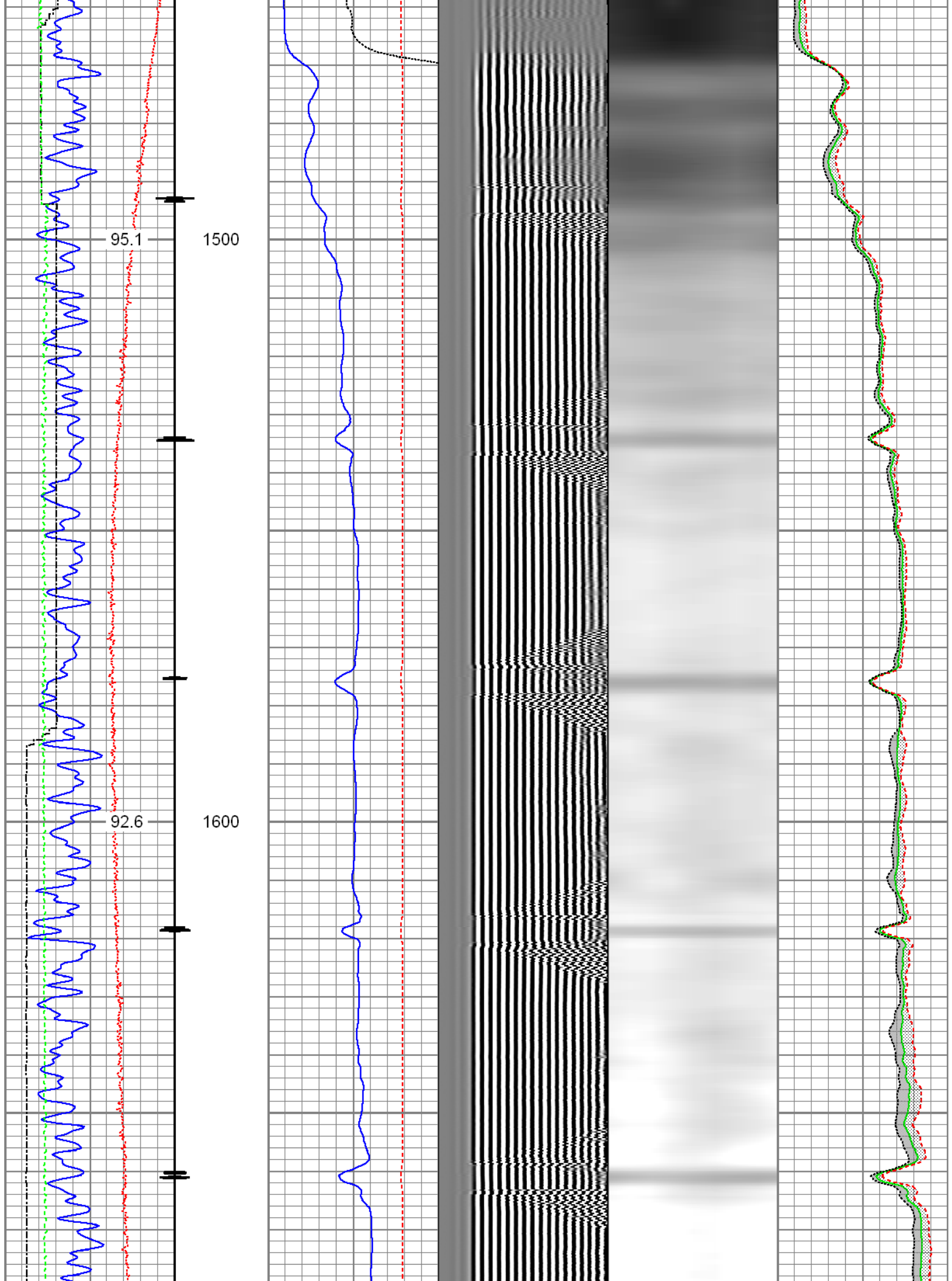


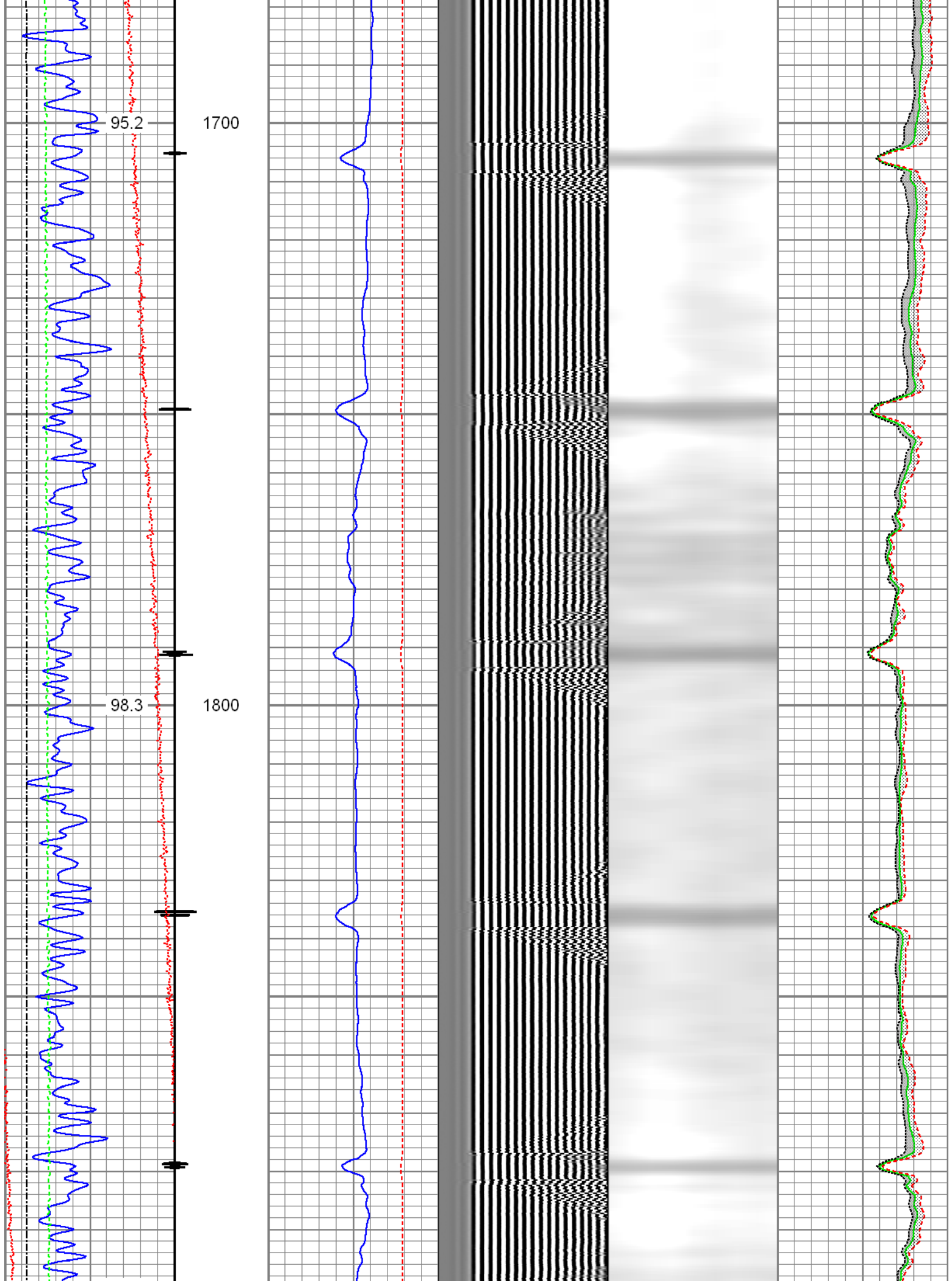


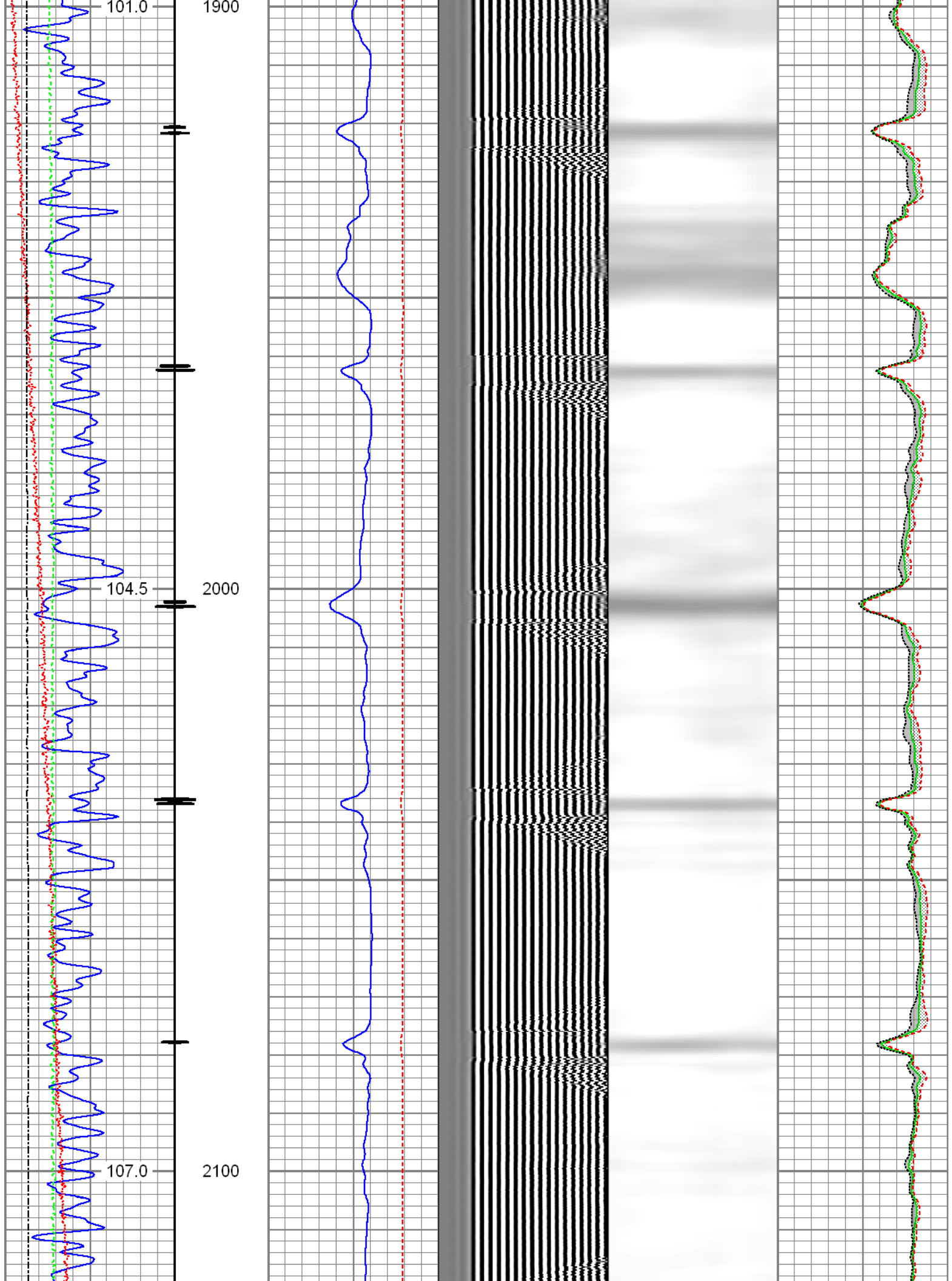


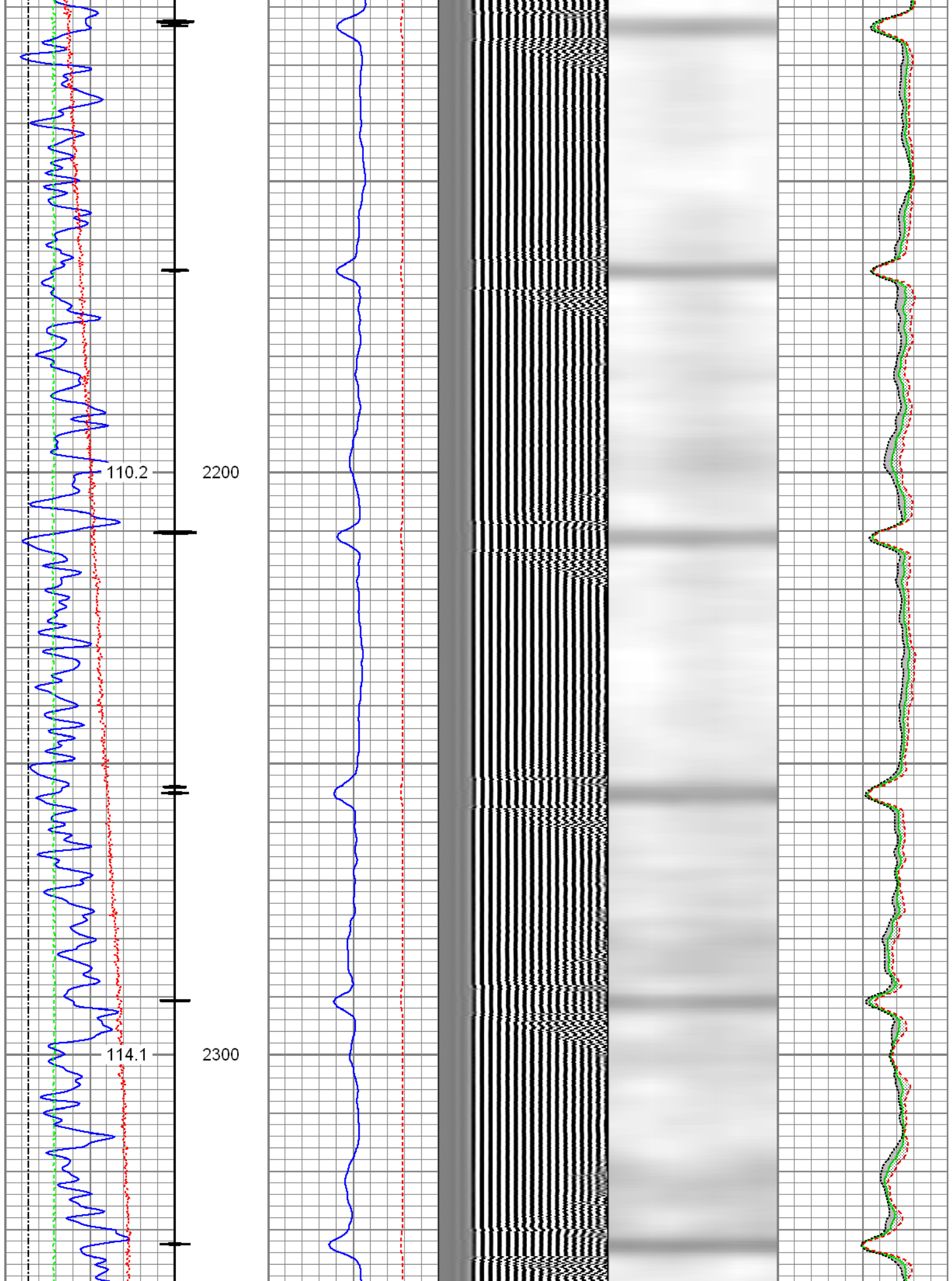


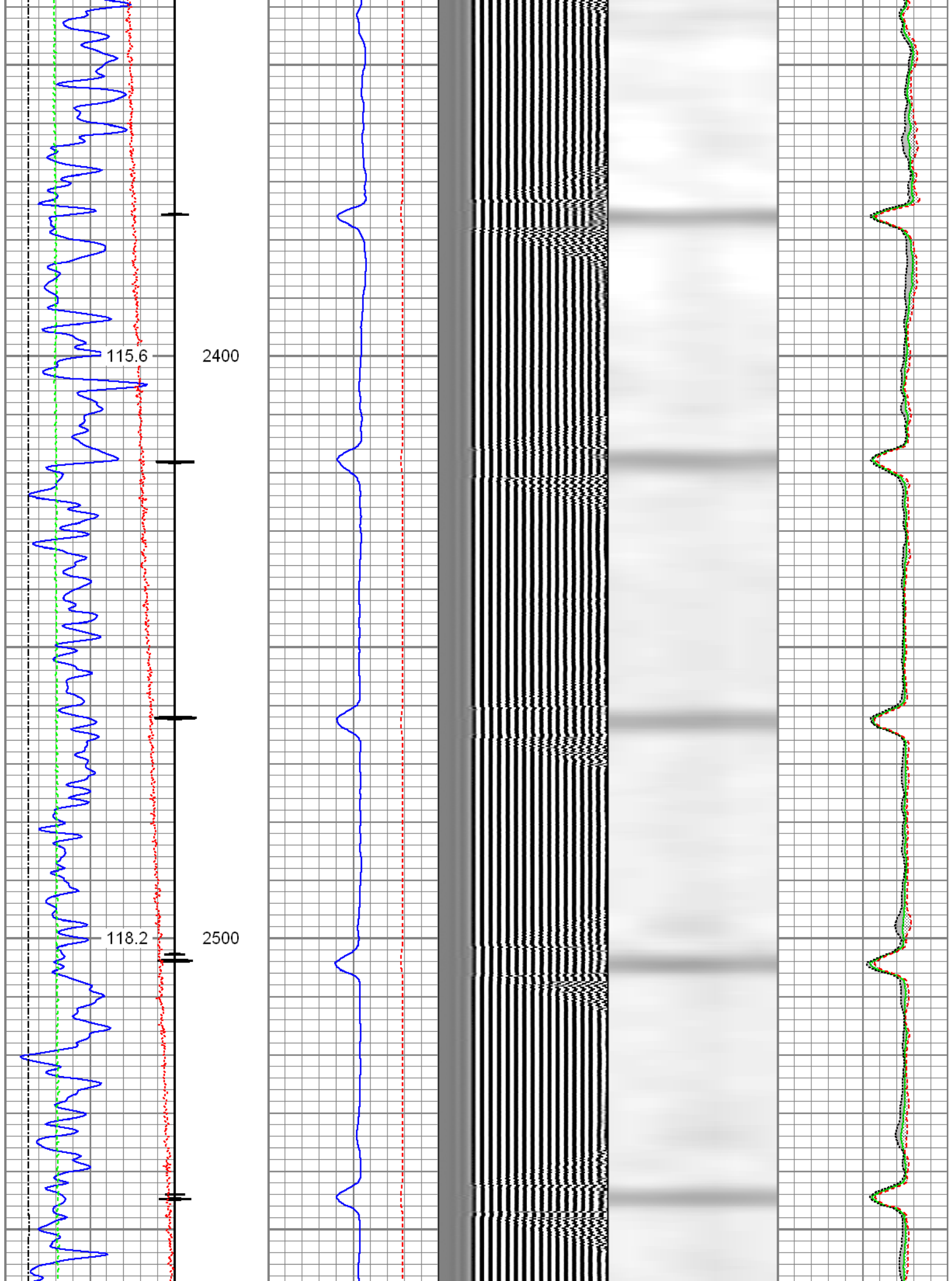


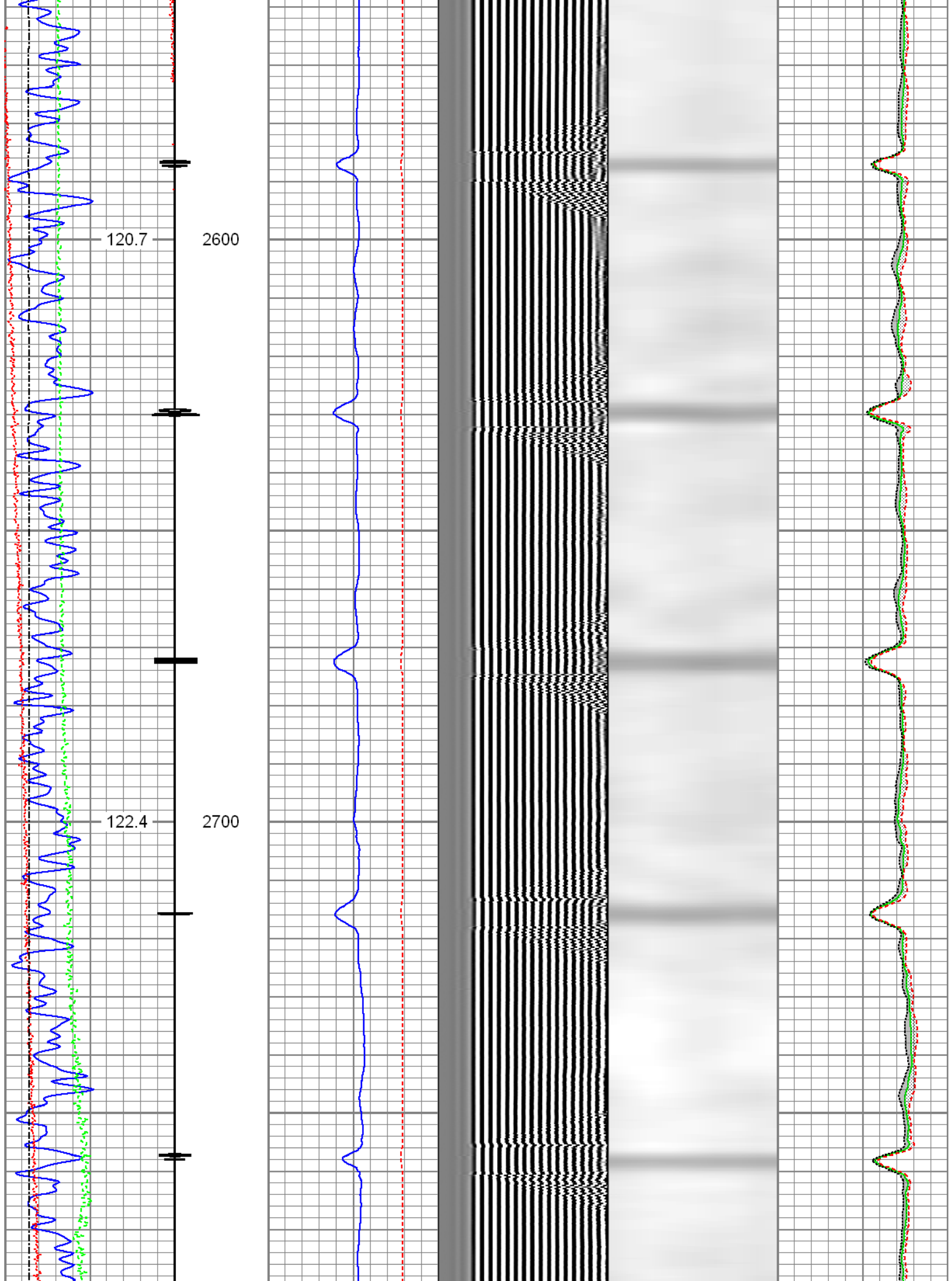


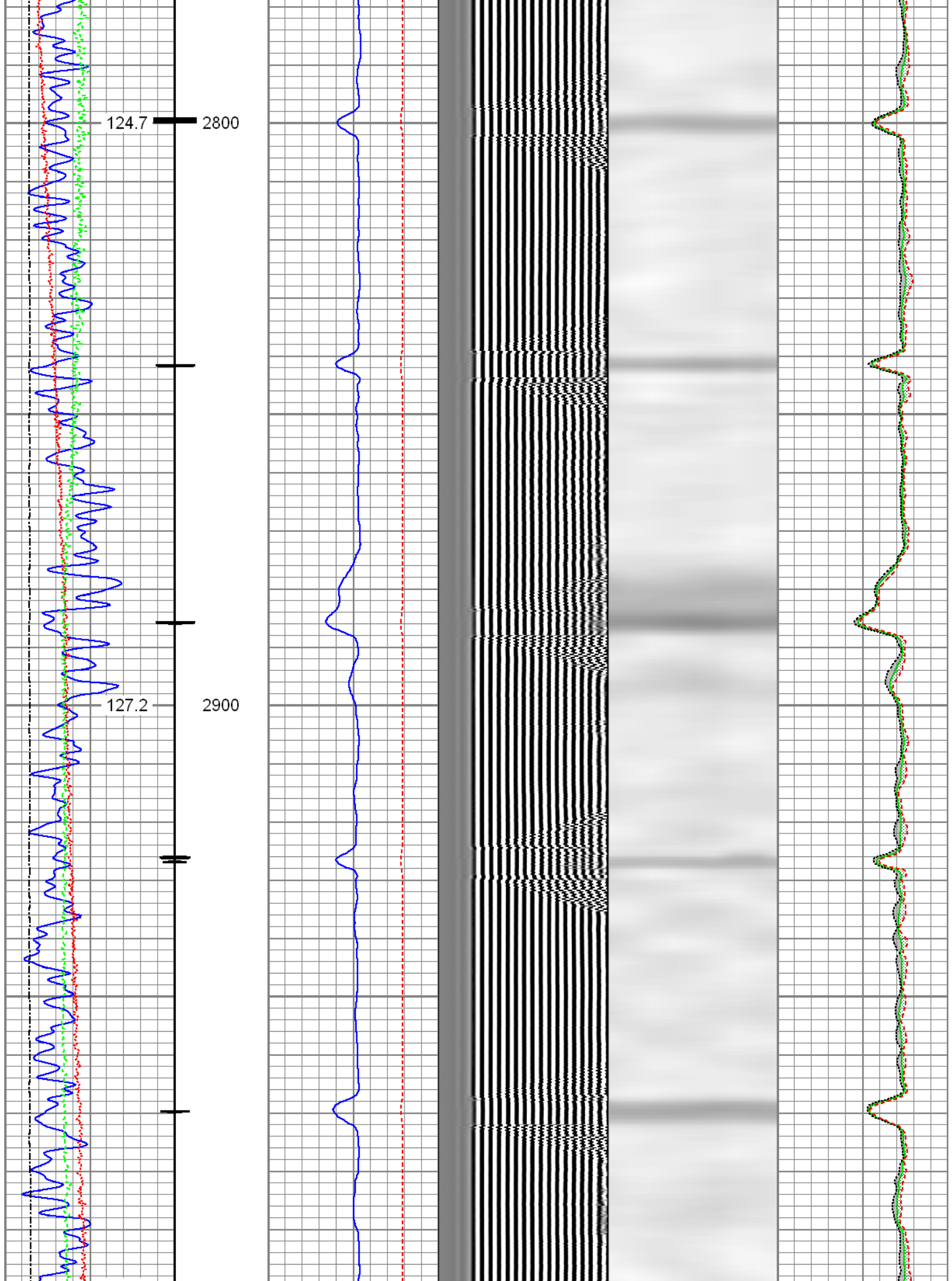


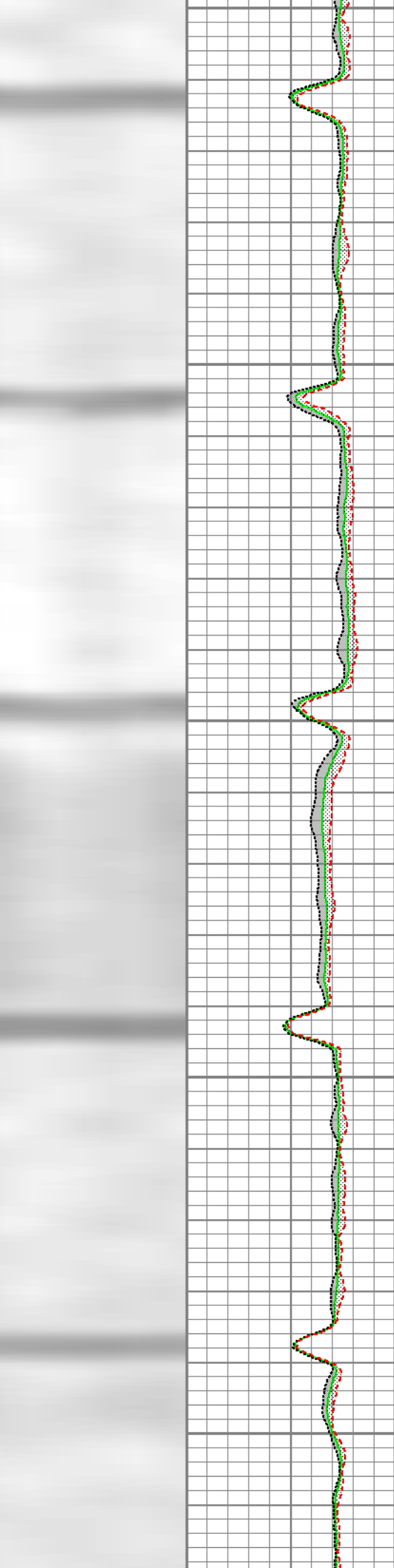
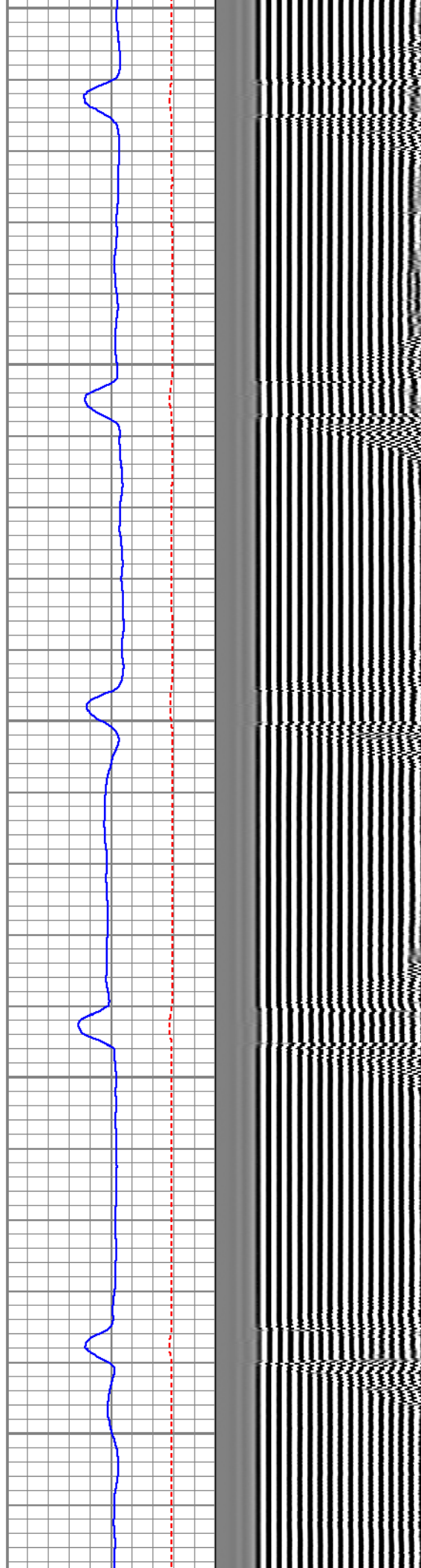
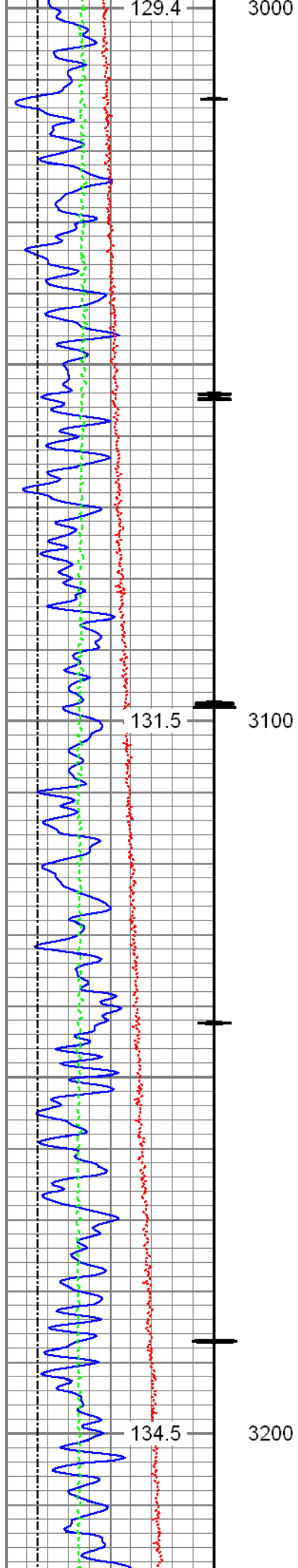


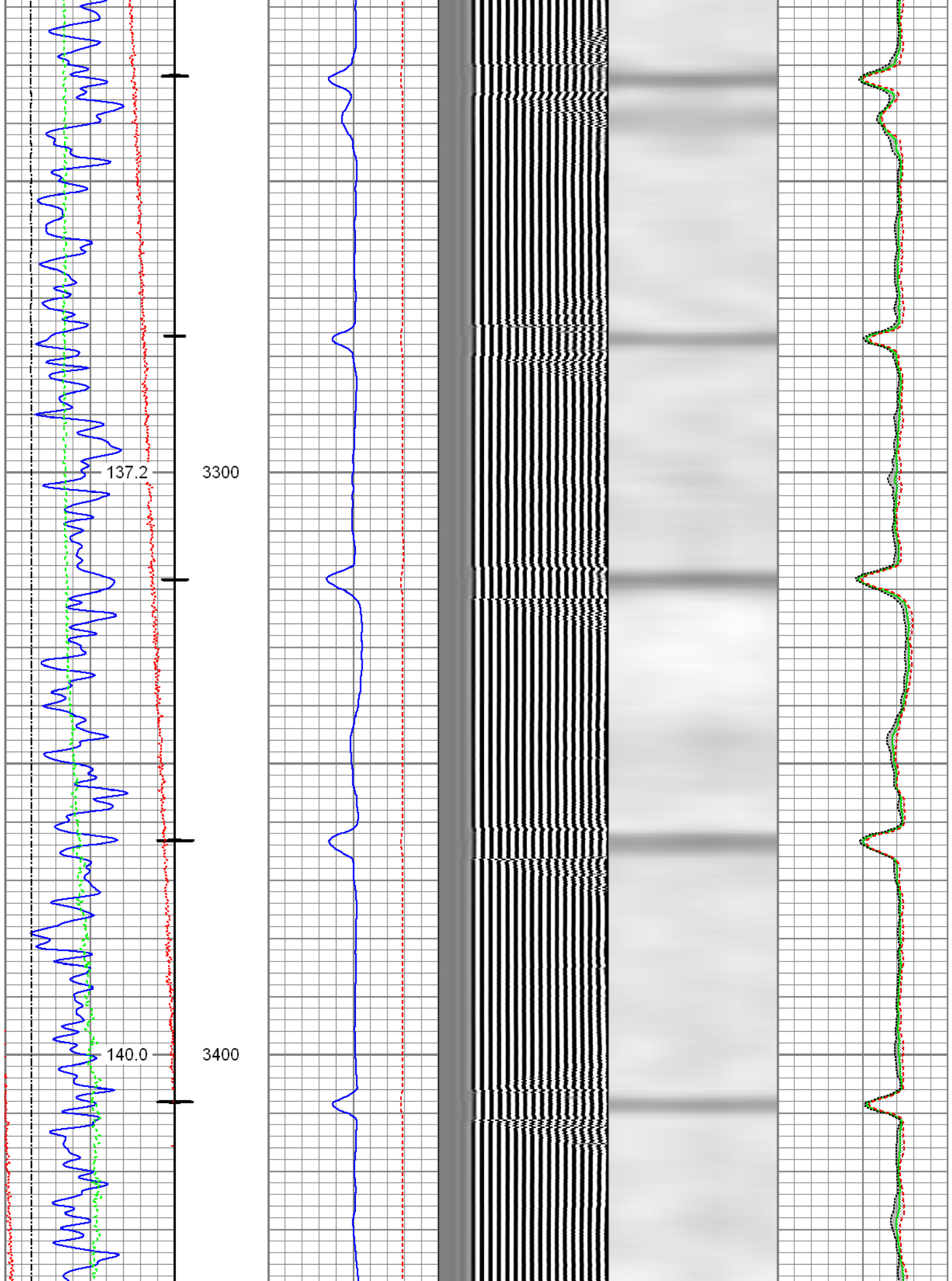


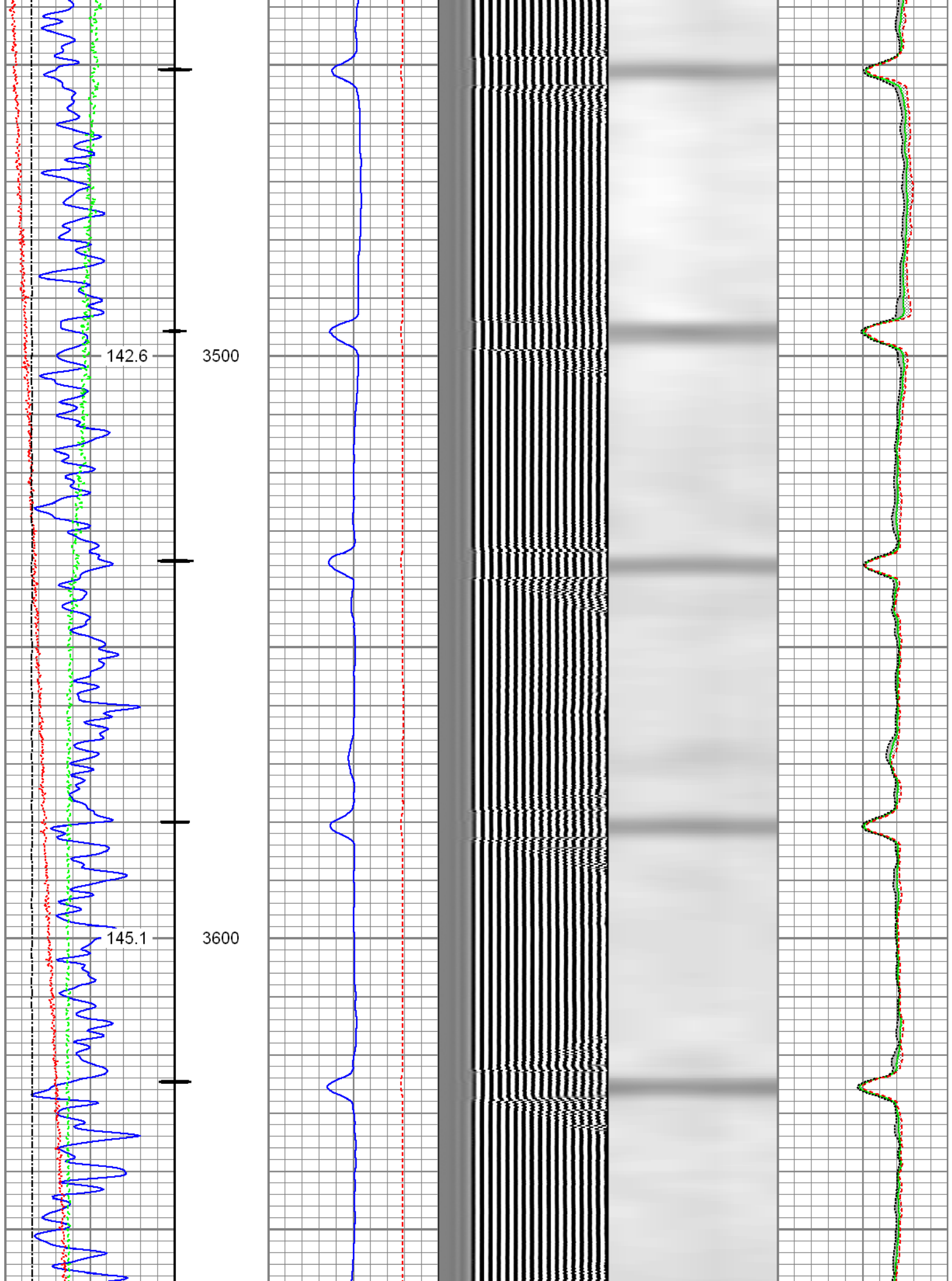


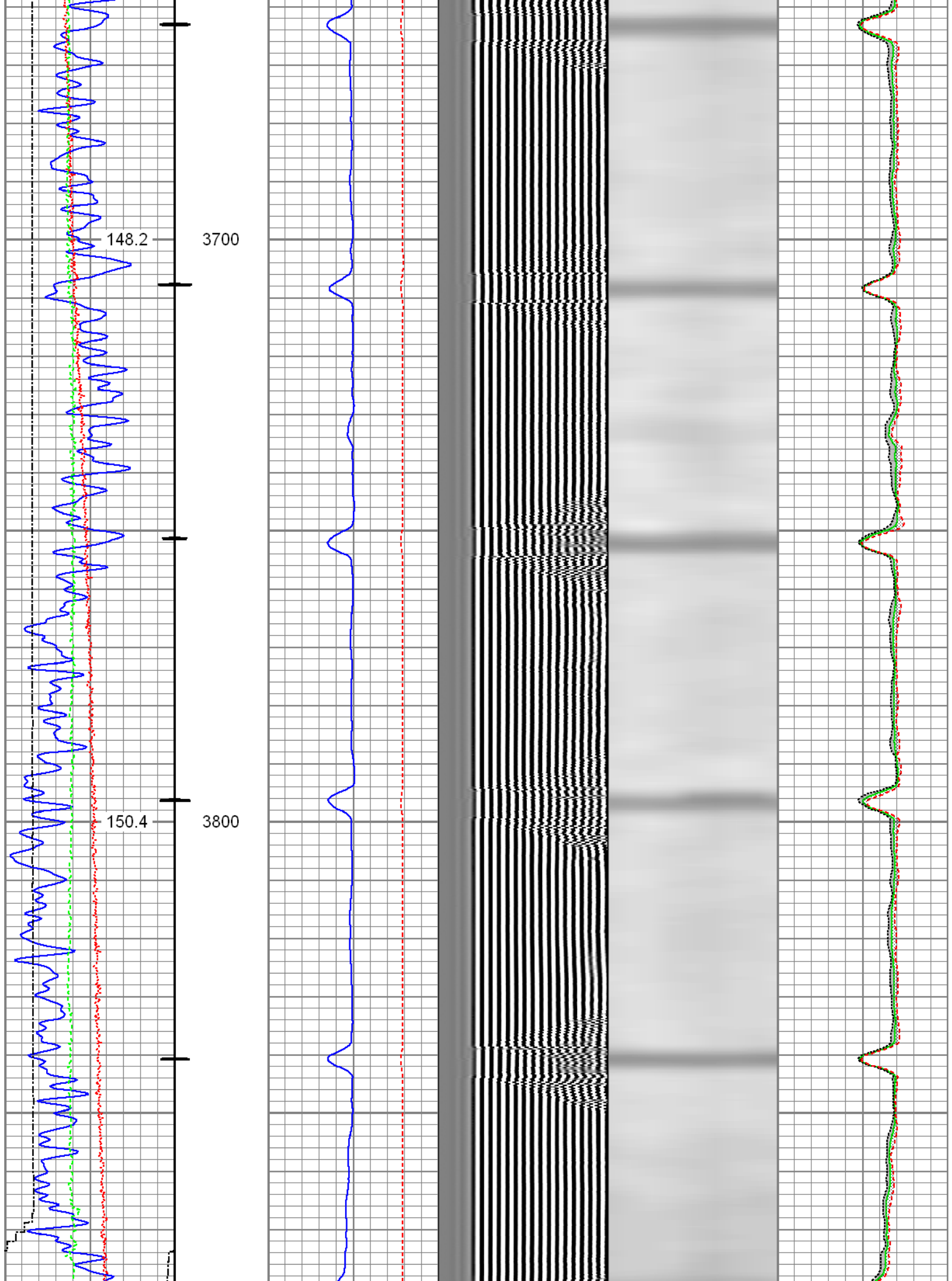


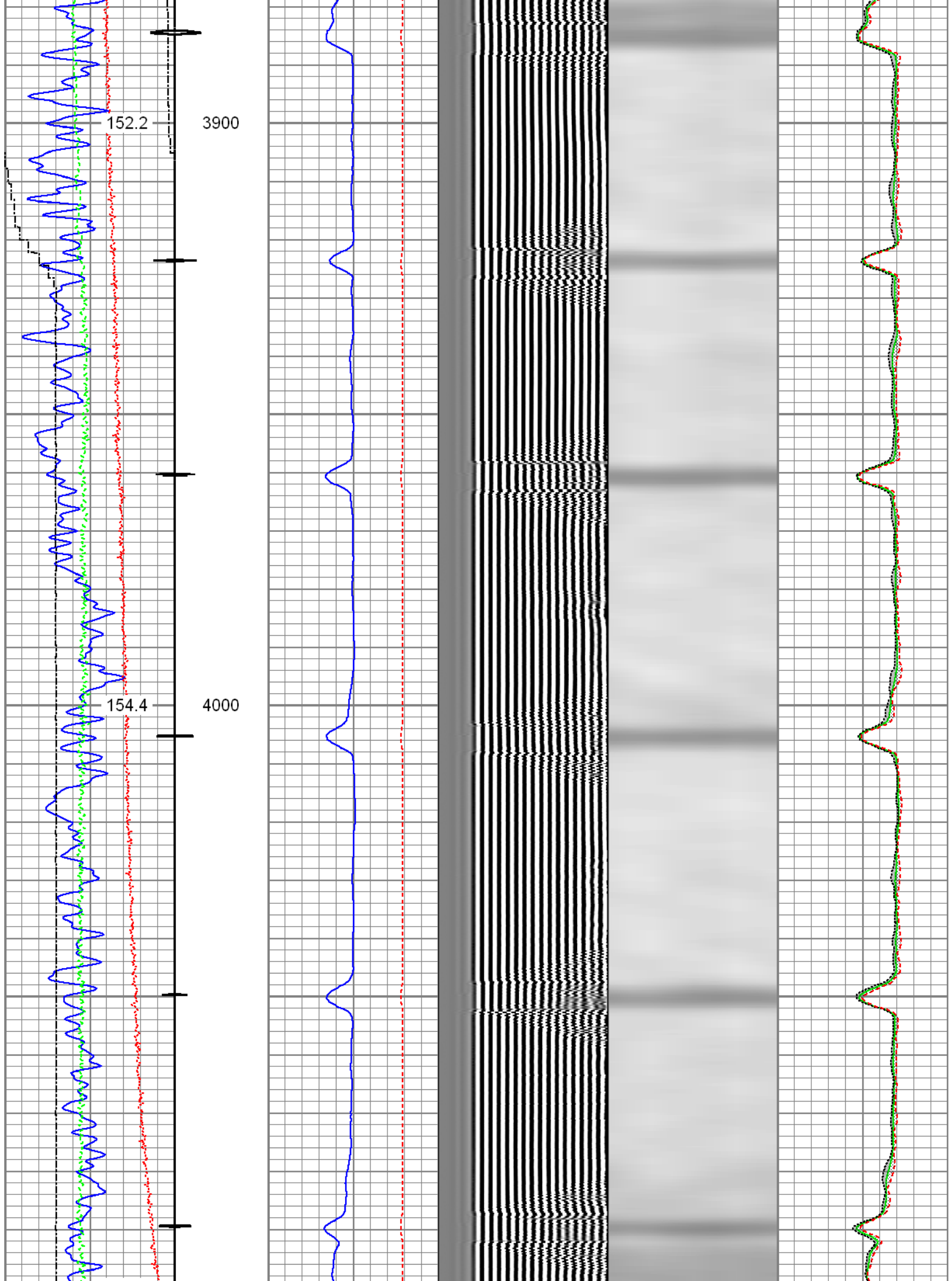


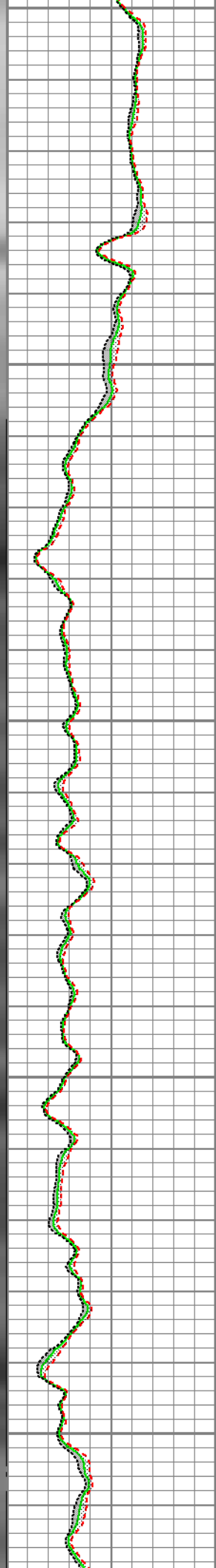
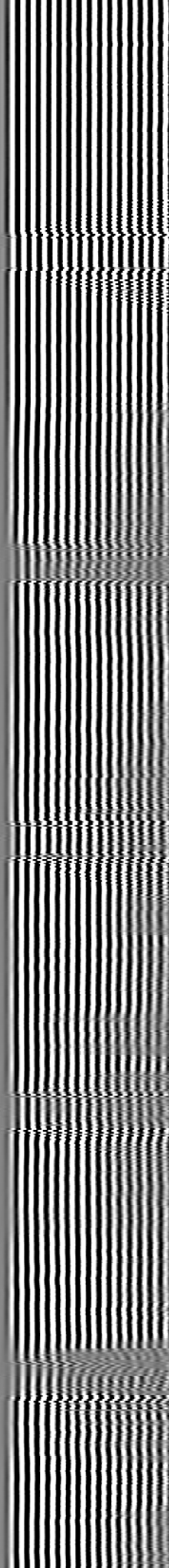
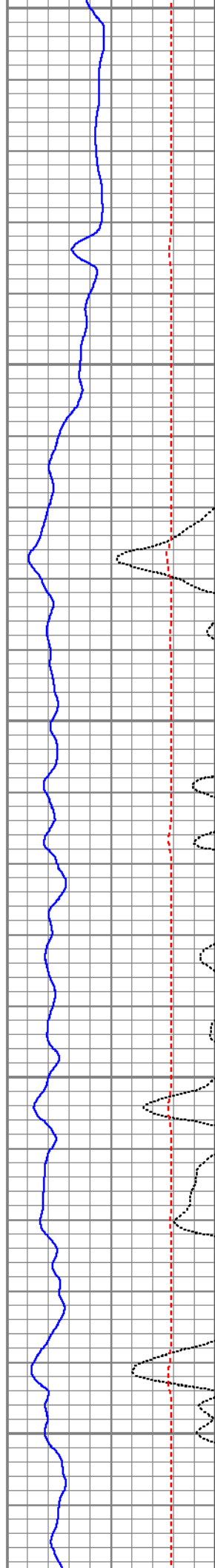
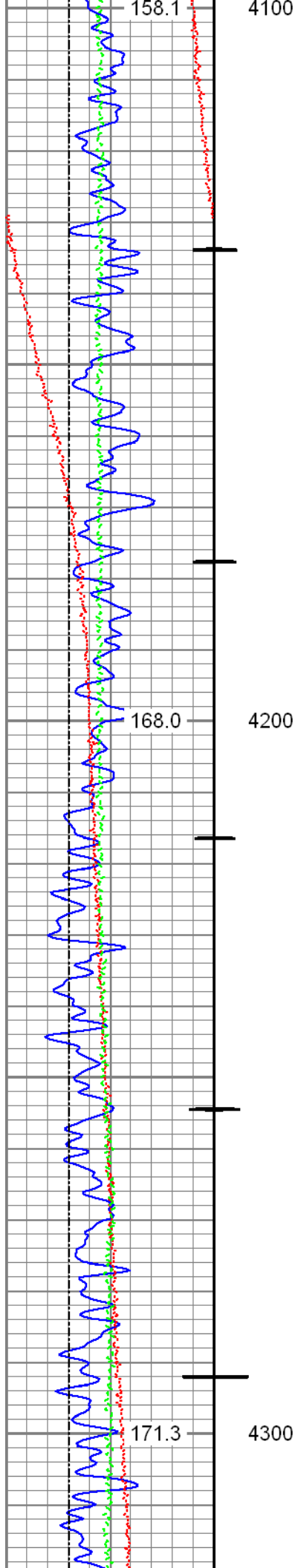


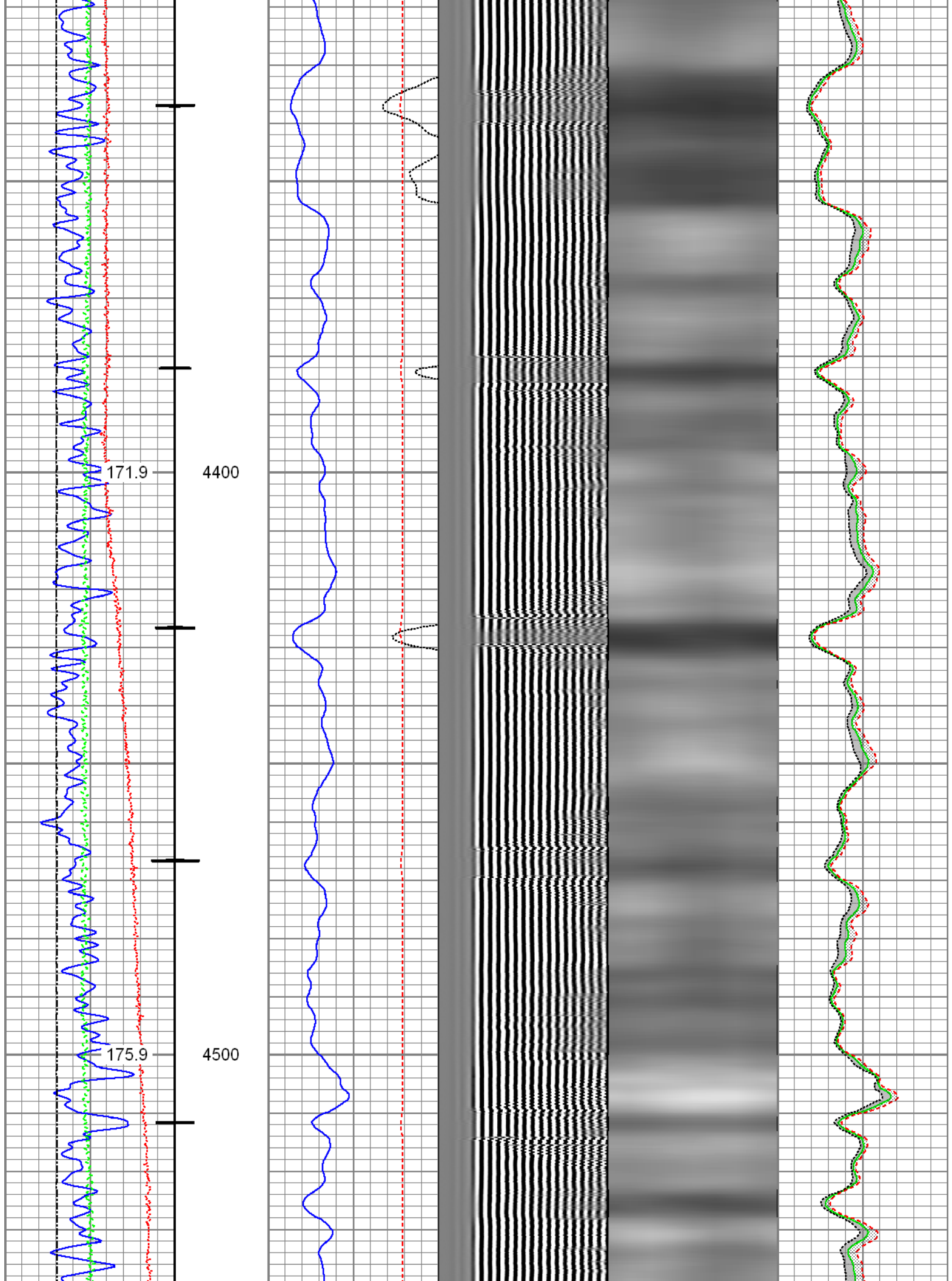


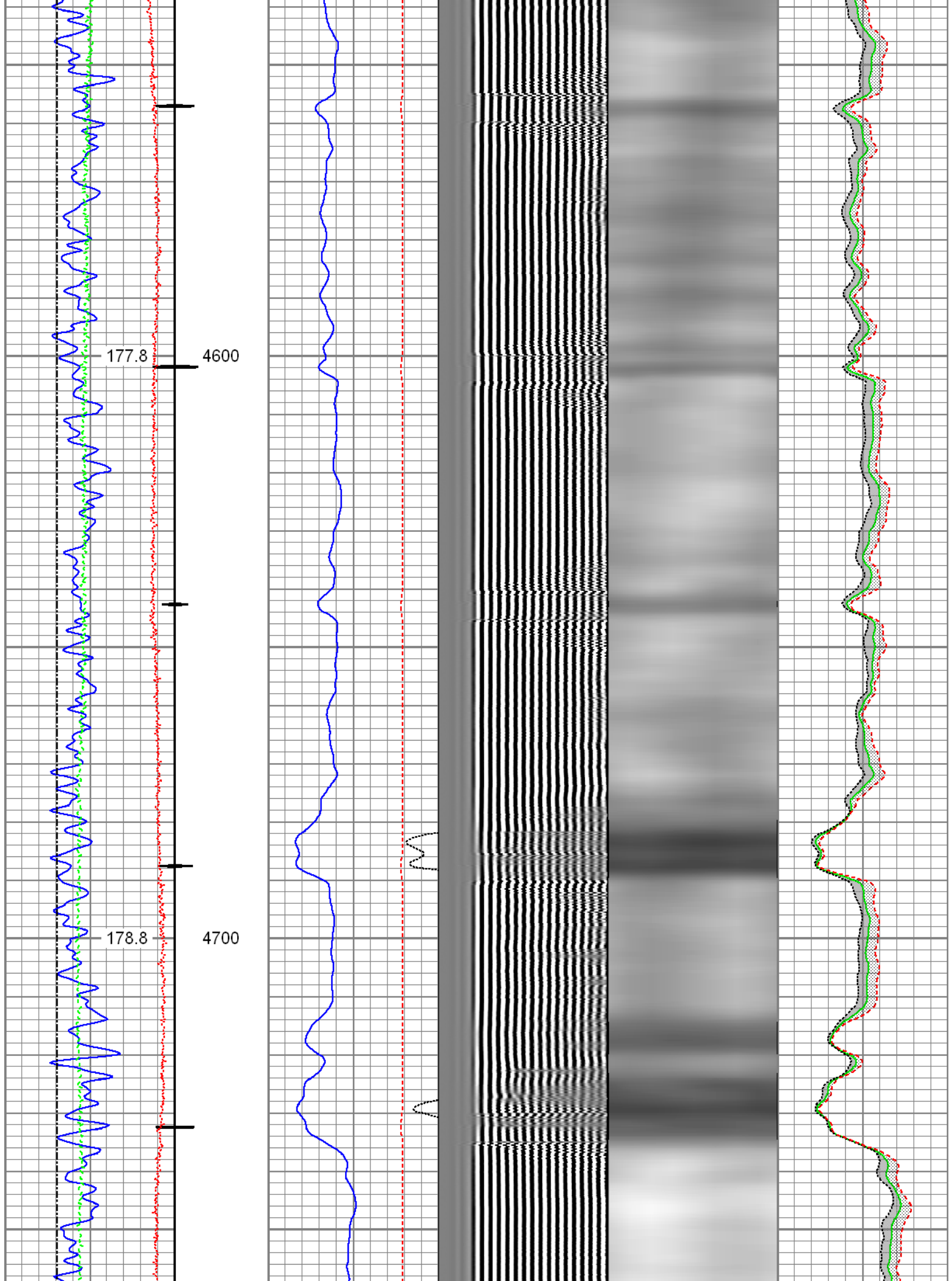


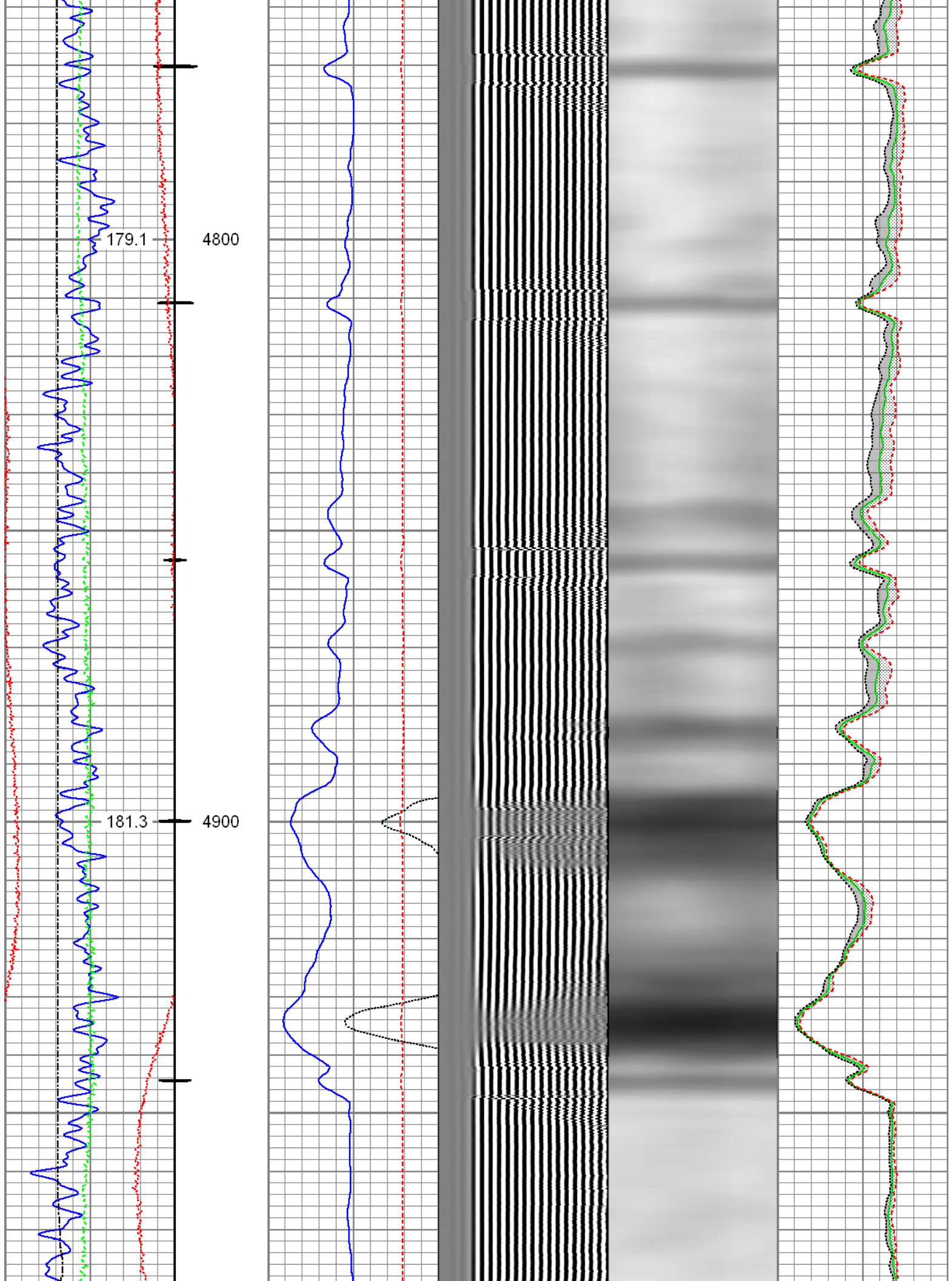


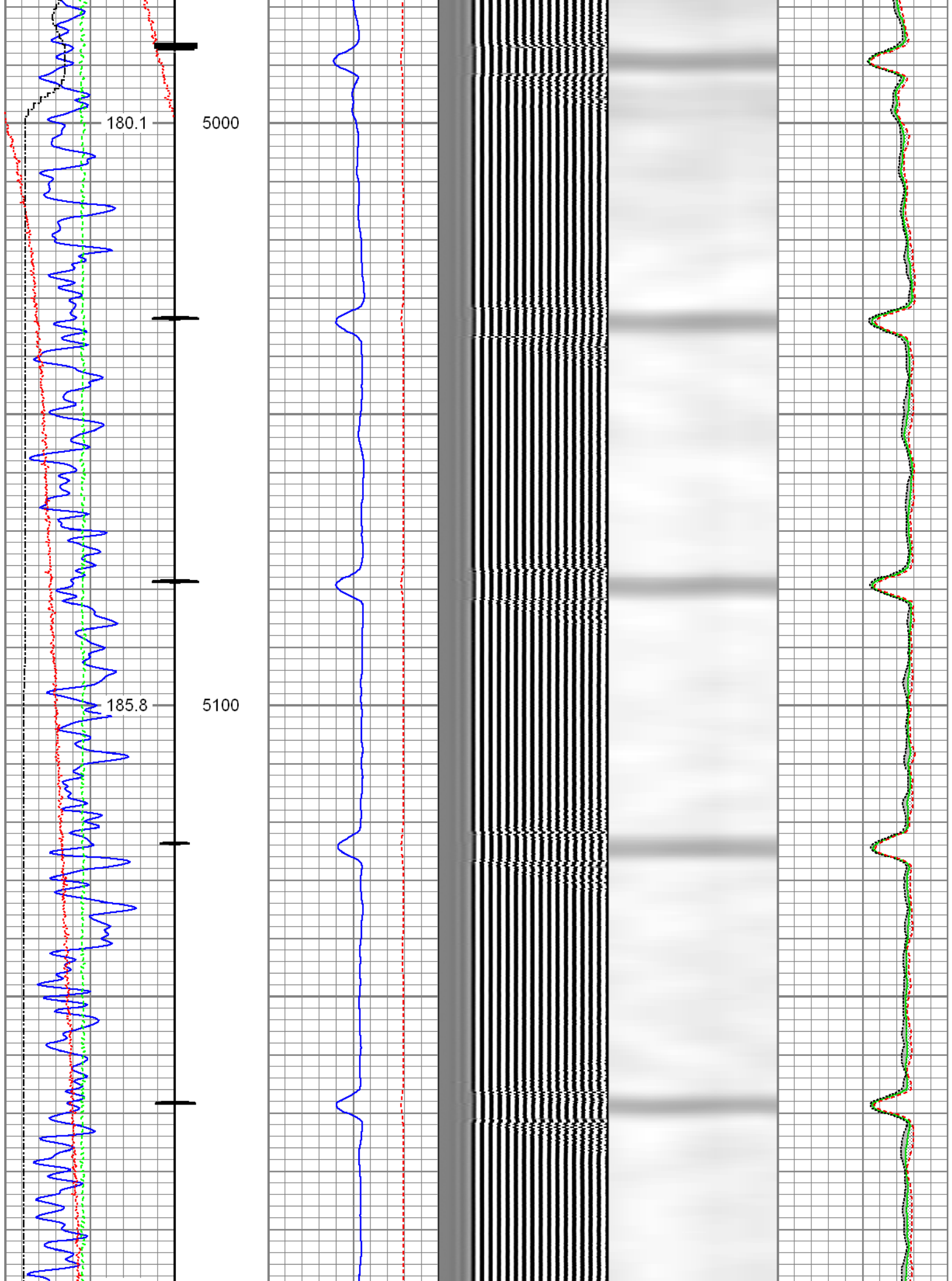


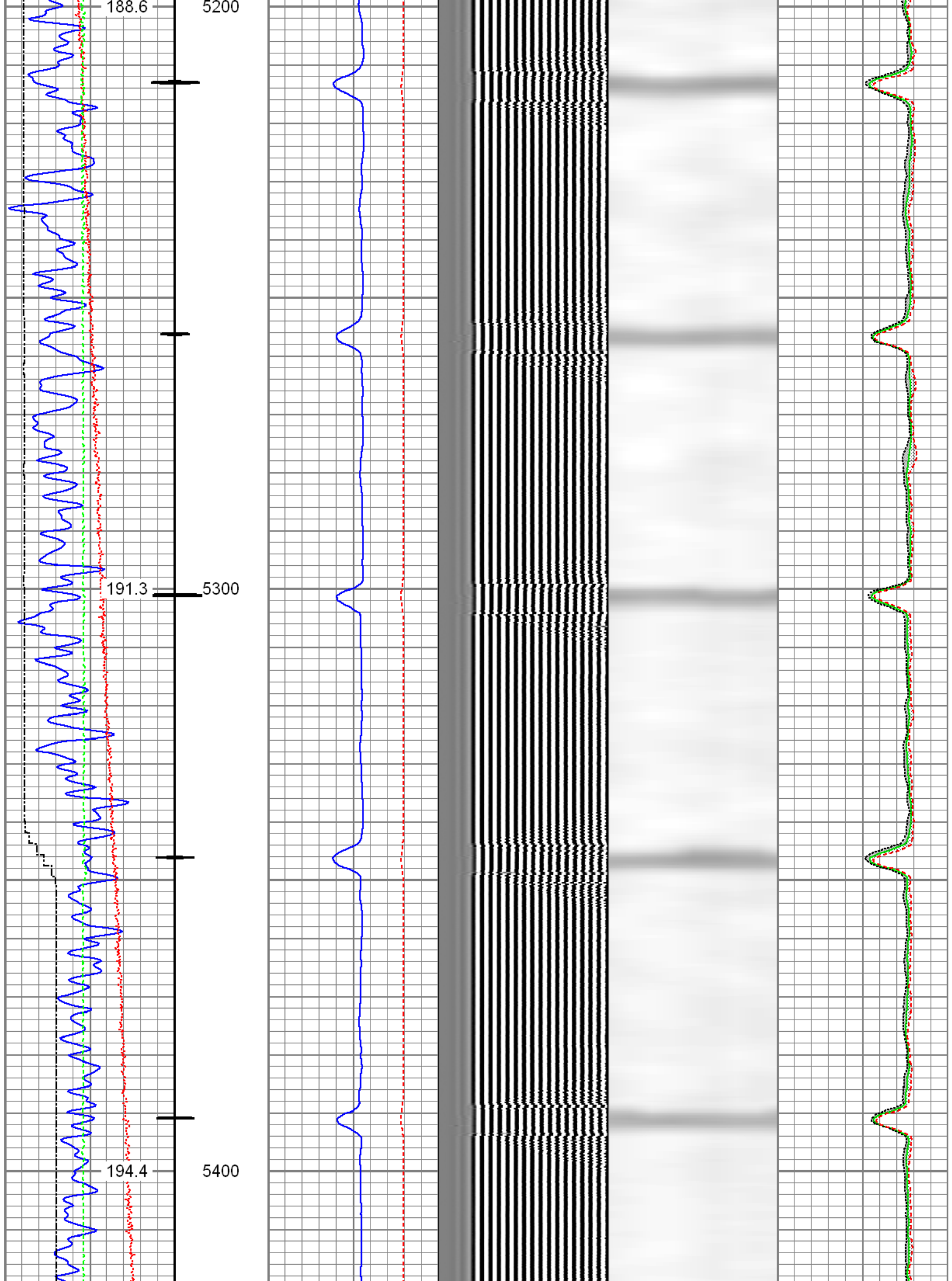


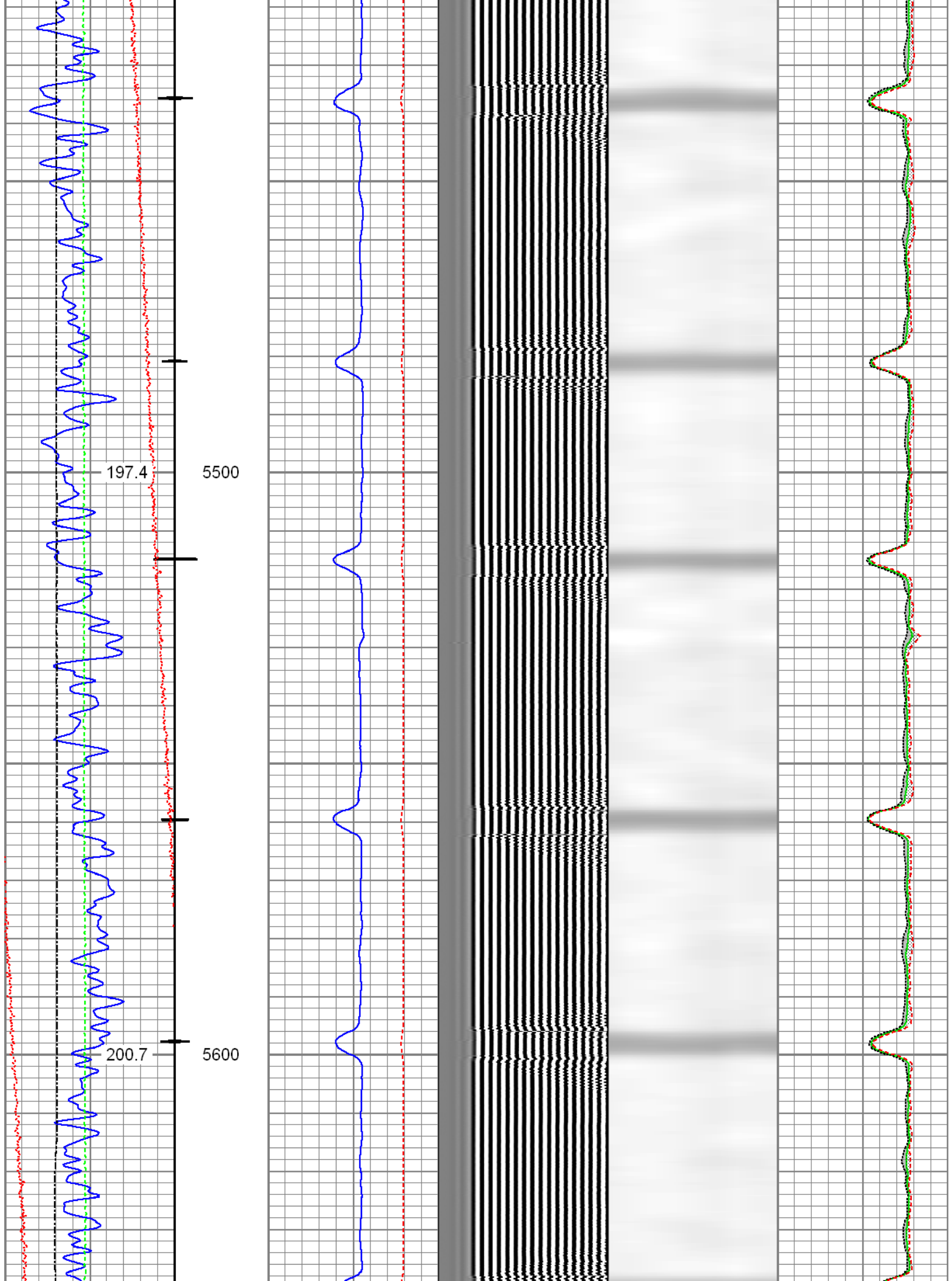


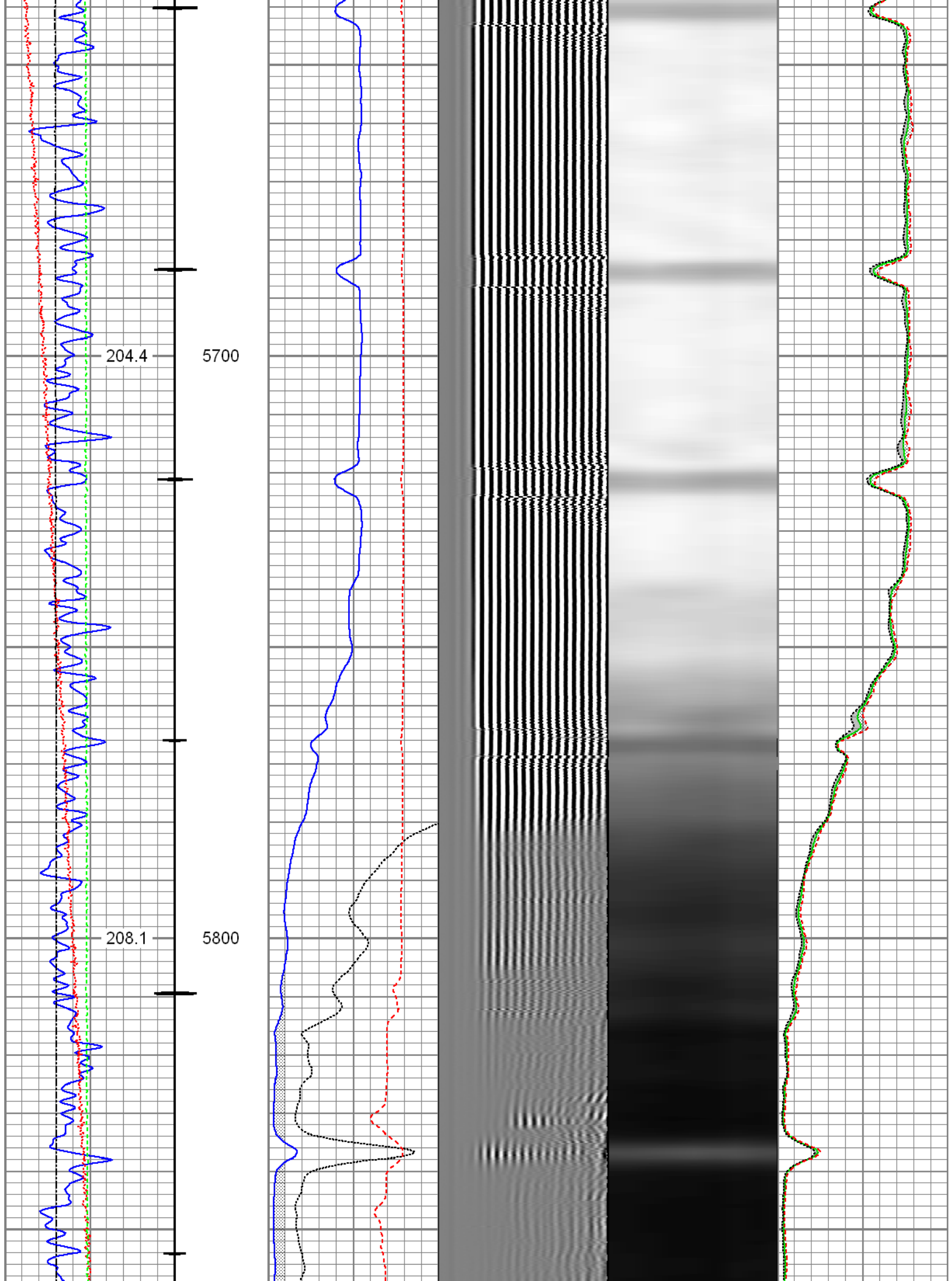


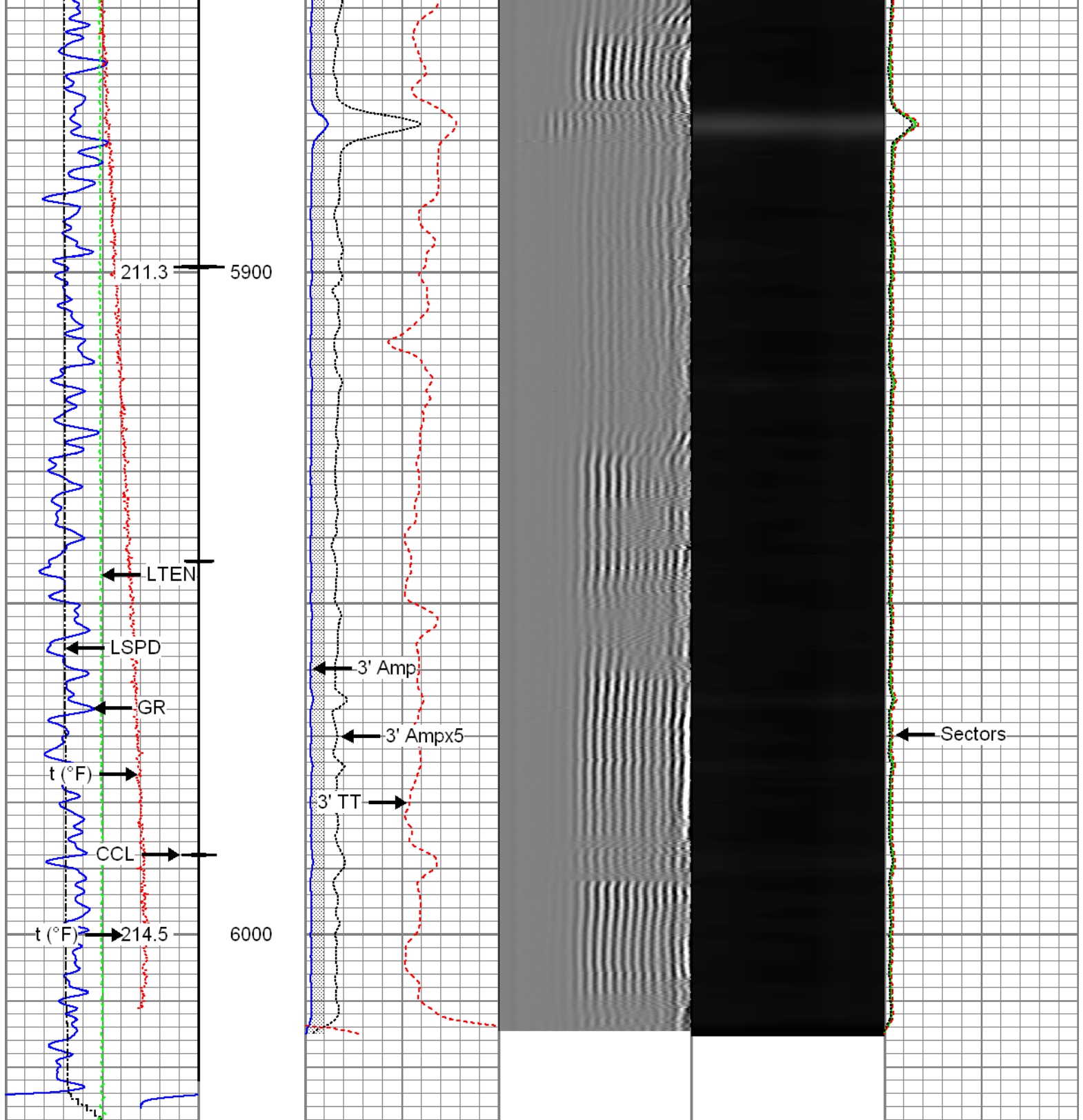












Gamma Ray 30 (GAPI) 130	3' Amplitude 0 (mV) 100	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 0 100
Casing Collar Locator	3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 100
Temperature 0 (degF) 20	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100
Line Speed -150 (ft/min) 150				
Line Tension 0 (lb) 2000				

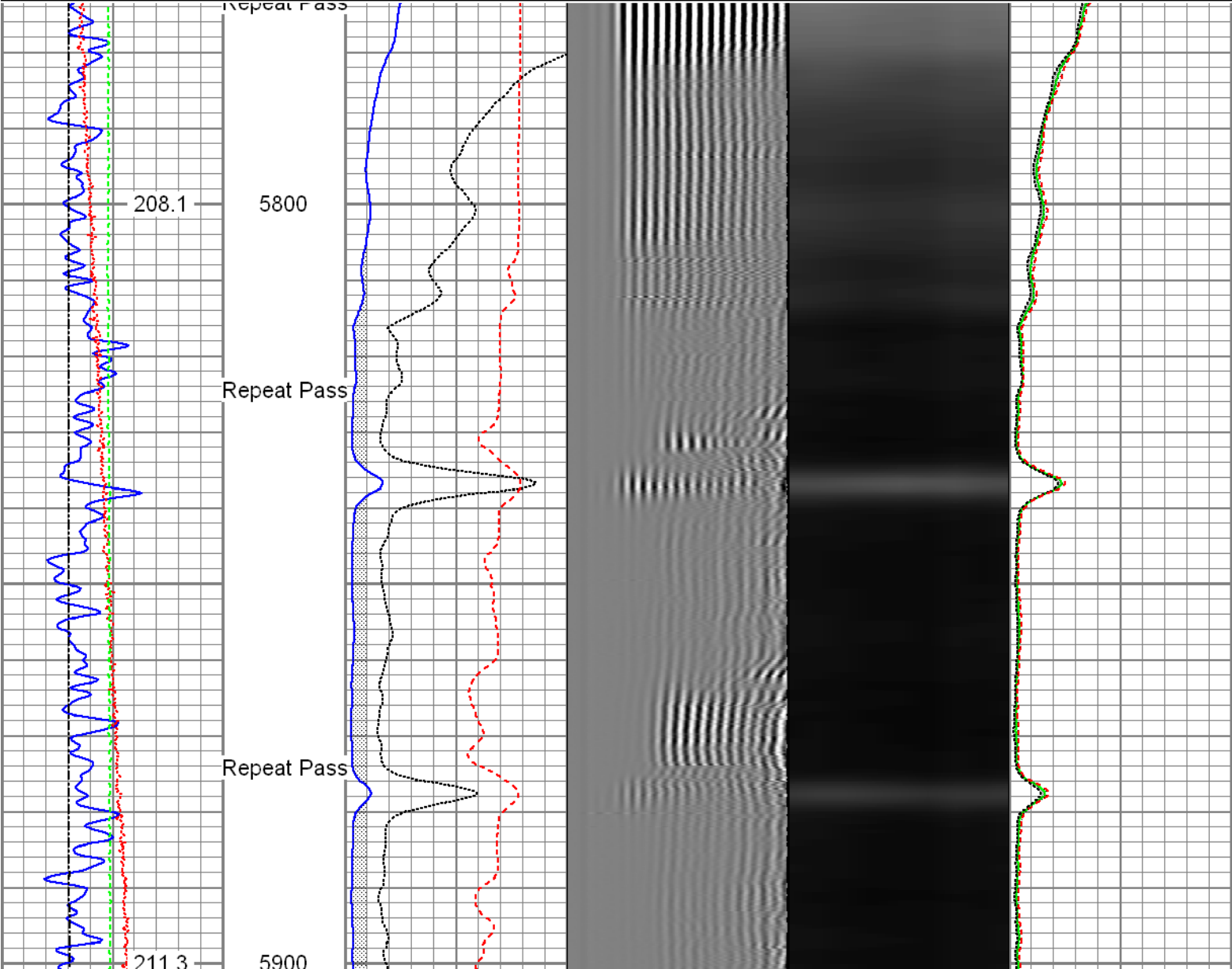


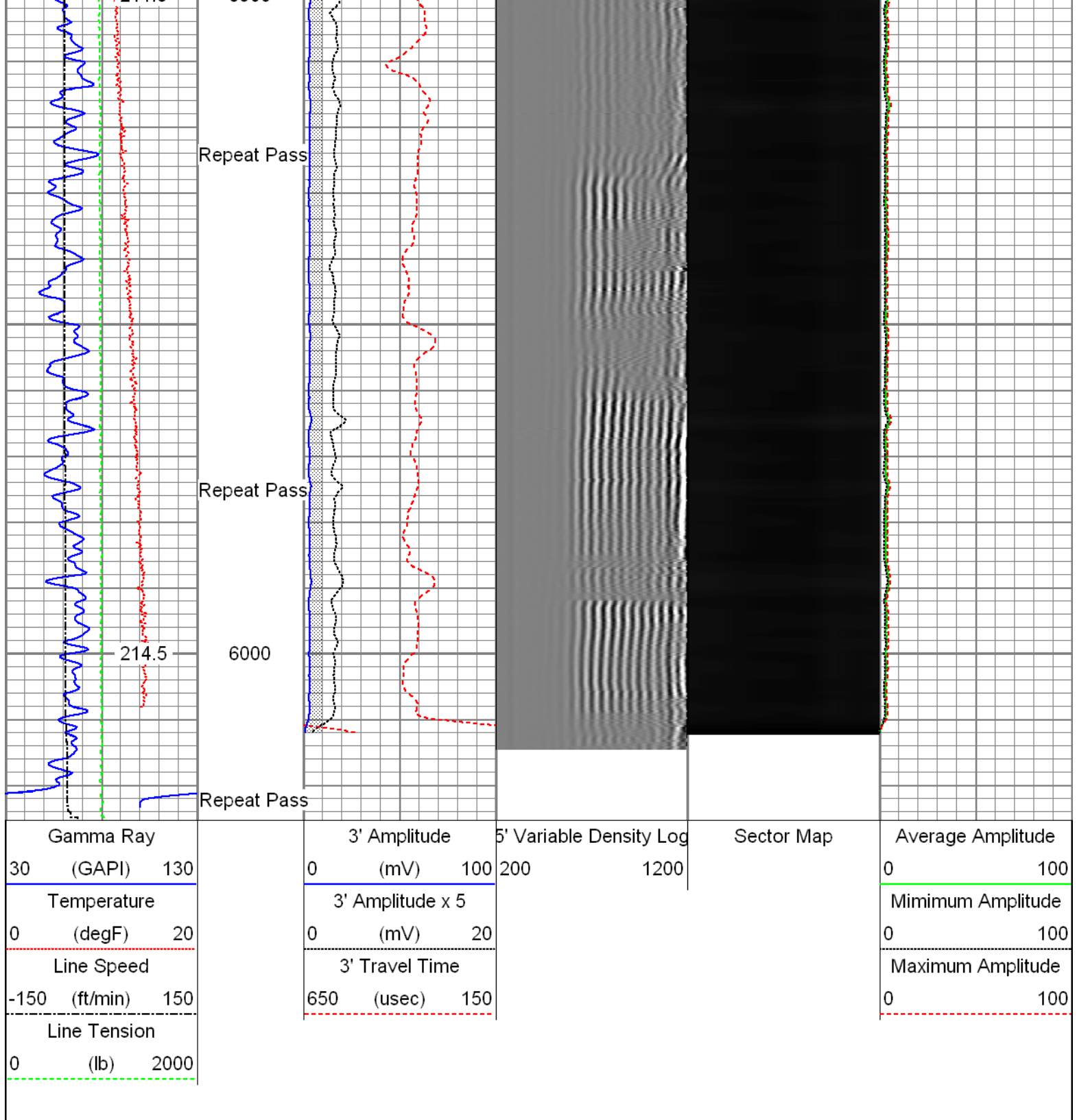
Repeat Pass

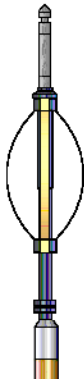
Recorded with 0 PSI Surface Induced Pressure

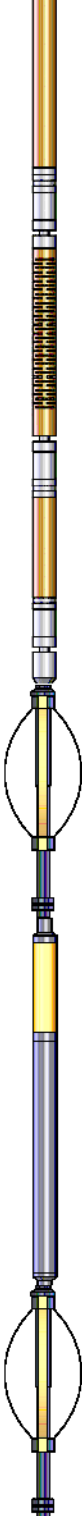
Database File: z:\logs_for_processing\logs to be sent\0512314601_anadarko_champlin 203 amoco 'a' 1_02-04-16_1
Dataset Pathname: repeat.1
Presentation Format: radi_vert
Dataset Creation: Thu Feb 04 12:27:37 2016 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
30 (GAPI) 130	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	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" (FW1305-098) 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					
		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00	
CCL	6.51					
DCCL	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					
		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00	
Dataset: 0512314601_Anadarko_Champlin 203 Amoco 'A' 1_02-04-16_RBL.db: field/well/run1/merge3.1 Total Length: 23.40 ft Total Weight: 194.00 lb O.D. 2.75 in						

Calibration Report	
Database File:	Z:\Logs_For_Processing\Logs to be sent\0512314601_Anadarko_Champlin 203 Amoco 'A' 1_02-04-16
Dataset Pathname:	merge3.1
Dataset Creation:	Thu Feb 04 12:21:34 2016 by Calc 7.0 B1
Gamma Ray Calibration Report	
Serial Number:	FW1211-081
Tool Model:	2.75"Digital
Performed:	Wed Jan 20 13:44:12 2016

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1305-098
Tool Model:	2-3/4"
Calibration Casing Diameter:	5.500 in
Calibration Depth:	1696.965 ft

Master Calibration, performed Thu Feb 04 12:21:26 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.585	0.800	71.921	121.680	0.742
CAL	0.630	0.630				
5'	0.000	0.495	0.800	71.921	143.728	0.753
SUM						
S1	0.001	0.595	0.000	100.000	168.122	-0.109
S2	0.001	0.588	0.000	100.000	170.320	-0.119
S3	0.001	0.583	0.000	100.000	171.660	-0.107
S4	0.001	0.590	0.000	100.000	169.586	-0.093
S5	0.000	0.601	0.000	100.000	166.484	-0.083
S6	0.000	0.597	0.000	100.000	167.477	-0.067
S7	0.000	0.587	0.000	100.000	170.537	-0.085
S8	0.000	0.593	0.000	100.000	168.787	-0.084

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	0.630	0.630	1.000	0.000

Air Zero Calibration, performed Thu Feb 04 07:35:20 2016:

	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



Well	Champlin 203 Amoco 'A' 1
Field	Wattenberg
County	Weld
State	Colorado