



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company	Kerr-McGee Oil and Gas Onshore LP		
Well	Sarchet 15N-20HZ		
Field	Wattenberg		
County	Weld		
State	Colorado		
Company		Kerr-McGee Oil and Gas Onshore LP	
Well		Sarchet 15N-20HZ	
Field		Wattenberg	
County		Weld	State Colorado
Location:		API # : 05-123-41918	Other Services
SEC 20 TWP 2N RGE 65W			Junk Basket Gauge Ring
Permanent Datum	Ground Level	Elevation	4915'
Log Measured From	Kelly Bushing	16 FT	
Drilling Measured From	Kelly Bushing		Elevation
			K.B. 4931'
			D.F. 4930'
			G.L. 4915'

Date	10-NOV-015
Run Number	Two
Depth Driller	12736 FT
Depth Logger	7450 FT
Bottom Logged Interval	7446 FT
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	242°F
Estimated Cement Top	Surface
Time Well Ready	ROA
Time Logger on Bottom	9:45 AM
Equipment Number	HD-0331
Location	Ft. Lupton, CO
Recorded By	B. Kalkwarf
Witnessed By	Darrel Bothwell

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	J55 LT&C	Surface	1877 FT		
Intermediate #1	5 1/2	17	HCP-110 LTC	Surface	12721 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 reference to Casing Tally reported Marker Joint at 6400FT
Adjusted log 0 FT to correlate with Marker Joint
Gauge Ring/Junk Basket ran from 7506 FT to Surface
Log ran with 2800 PSI Surface Induced Pressure
Logging tools were clean and free of any debris upon completion of operations

Thank you for choosing FMC Technologies Completion Services, Inc.

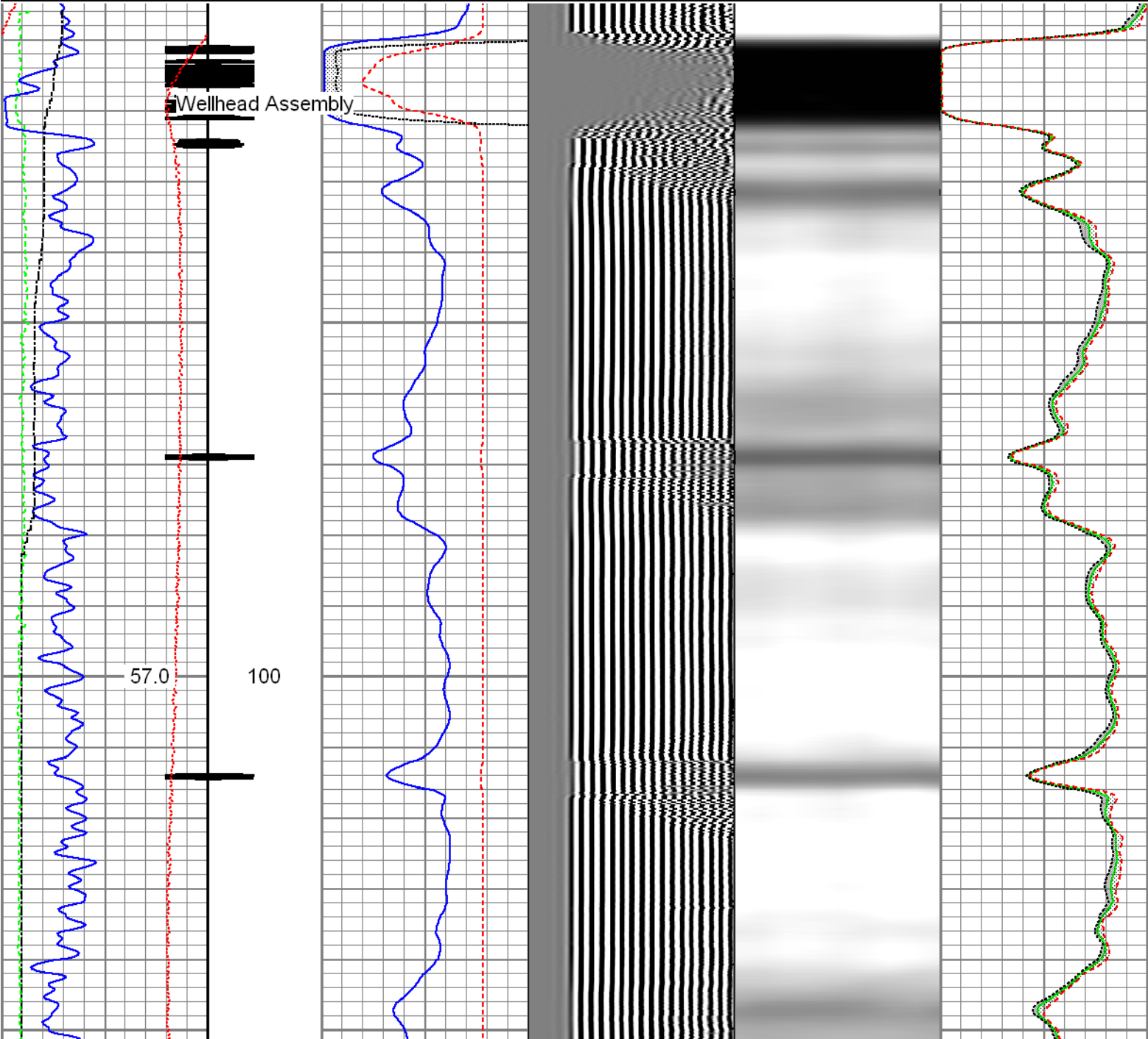


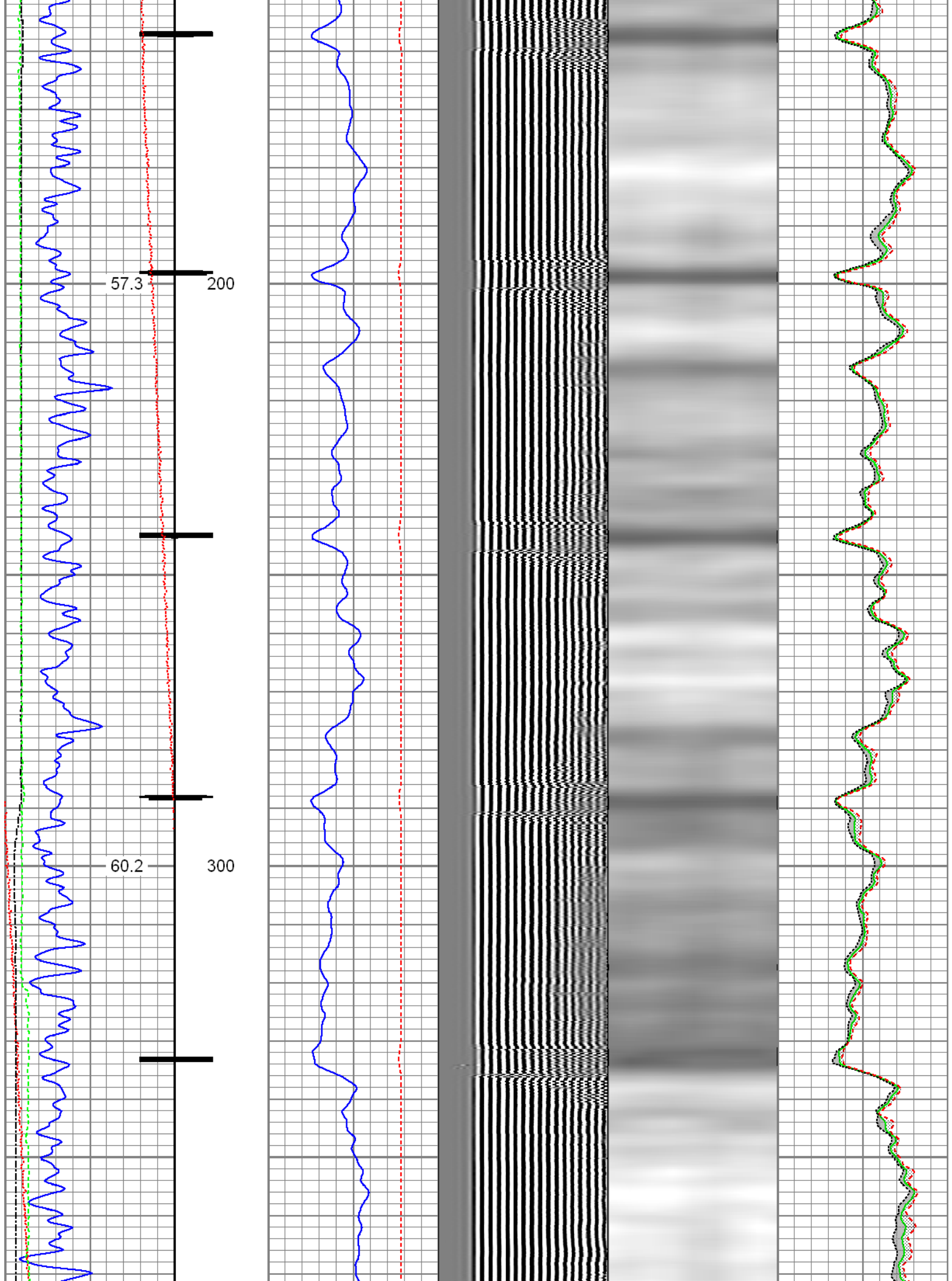
Main Pass

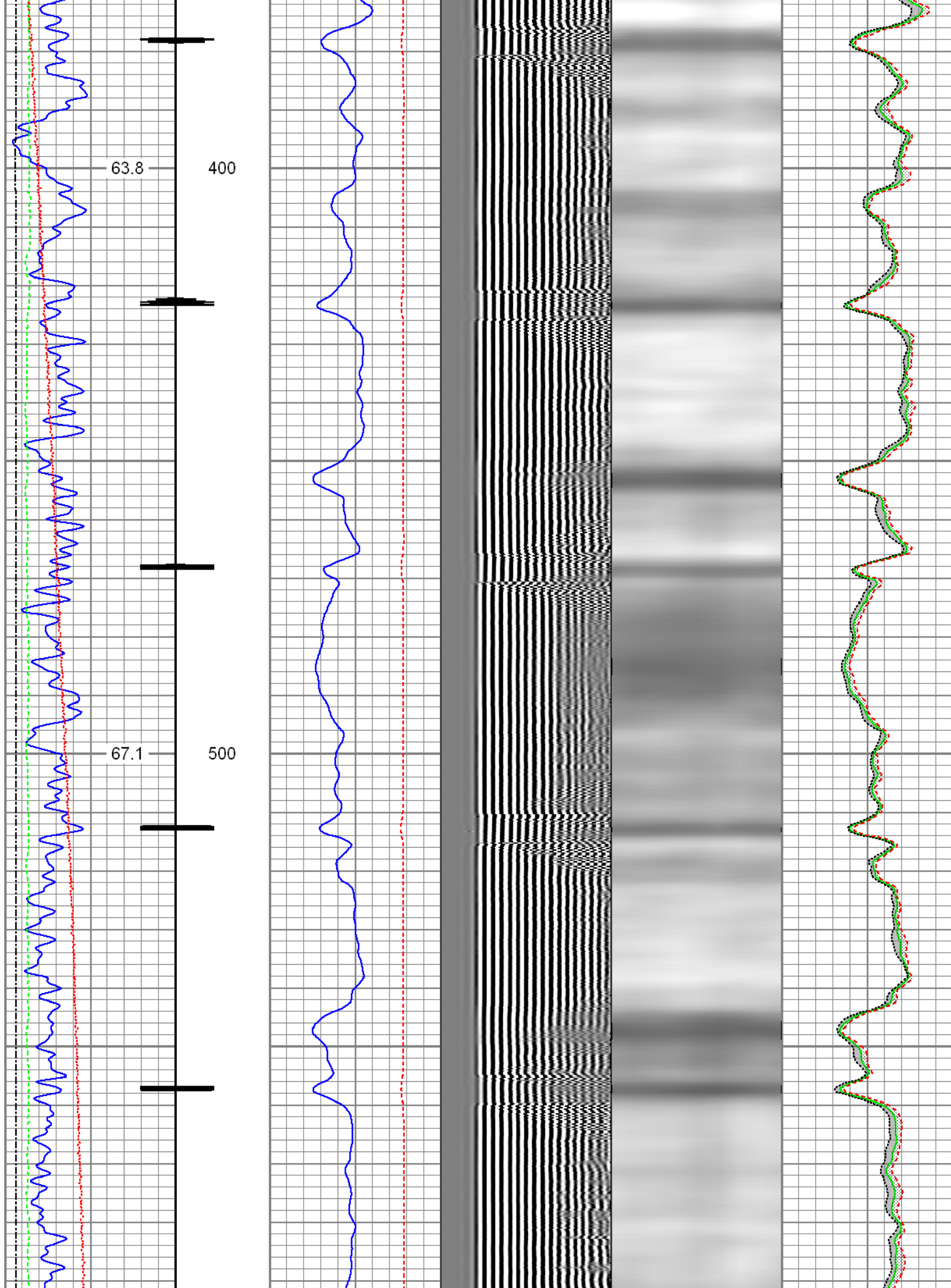
Recorded With 2800 PSI Surface Induced Pressure

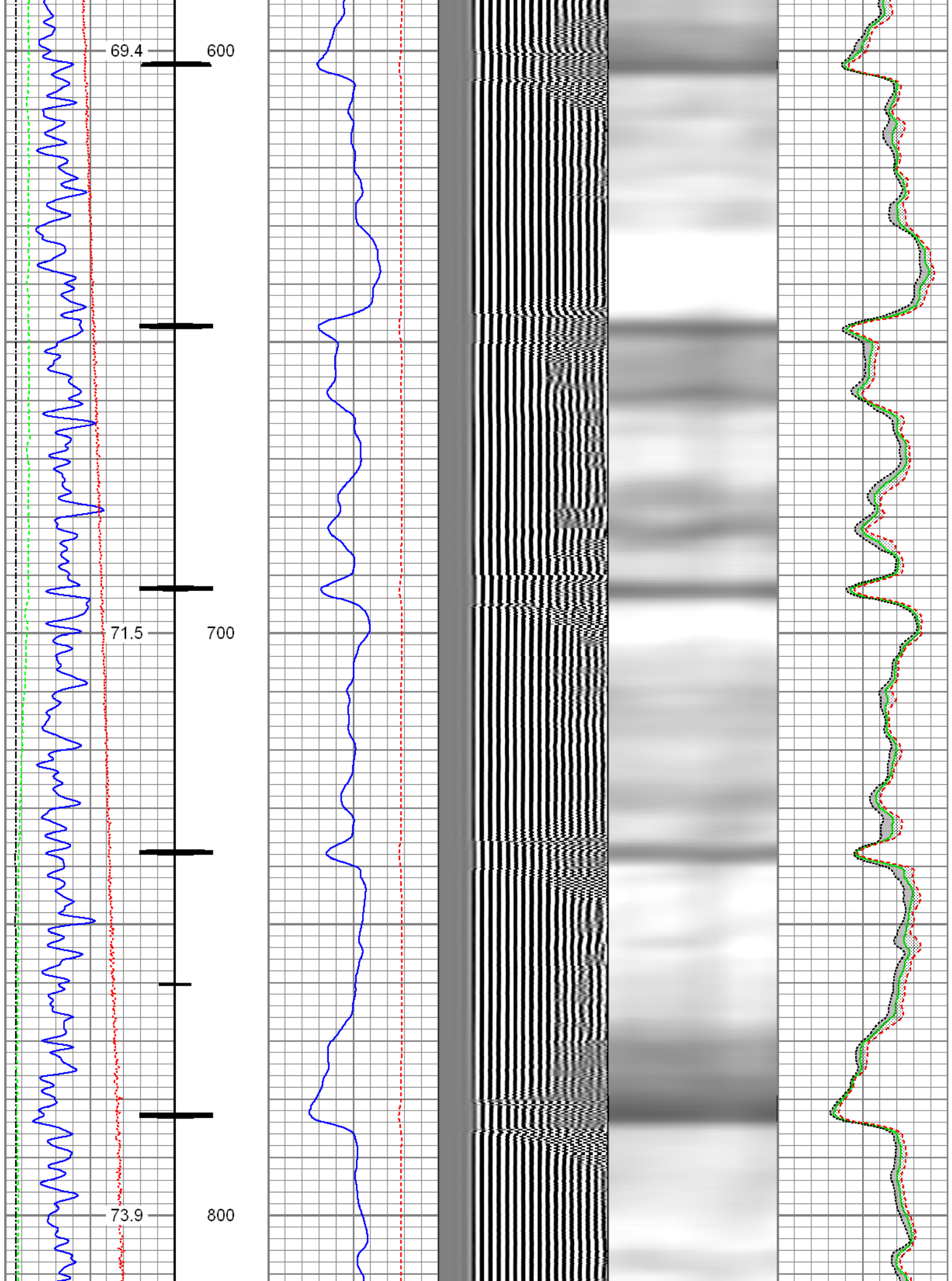
Database File: 0512341918_anadarko_sarchet 15n-20hz_11-10-15_rbl.db
Dataset Pathname: pass4.2
Presentation Format: radii
Dataset Creation: Wed Nov 11 09:06:16 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

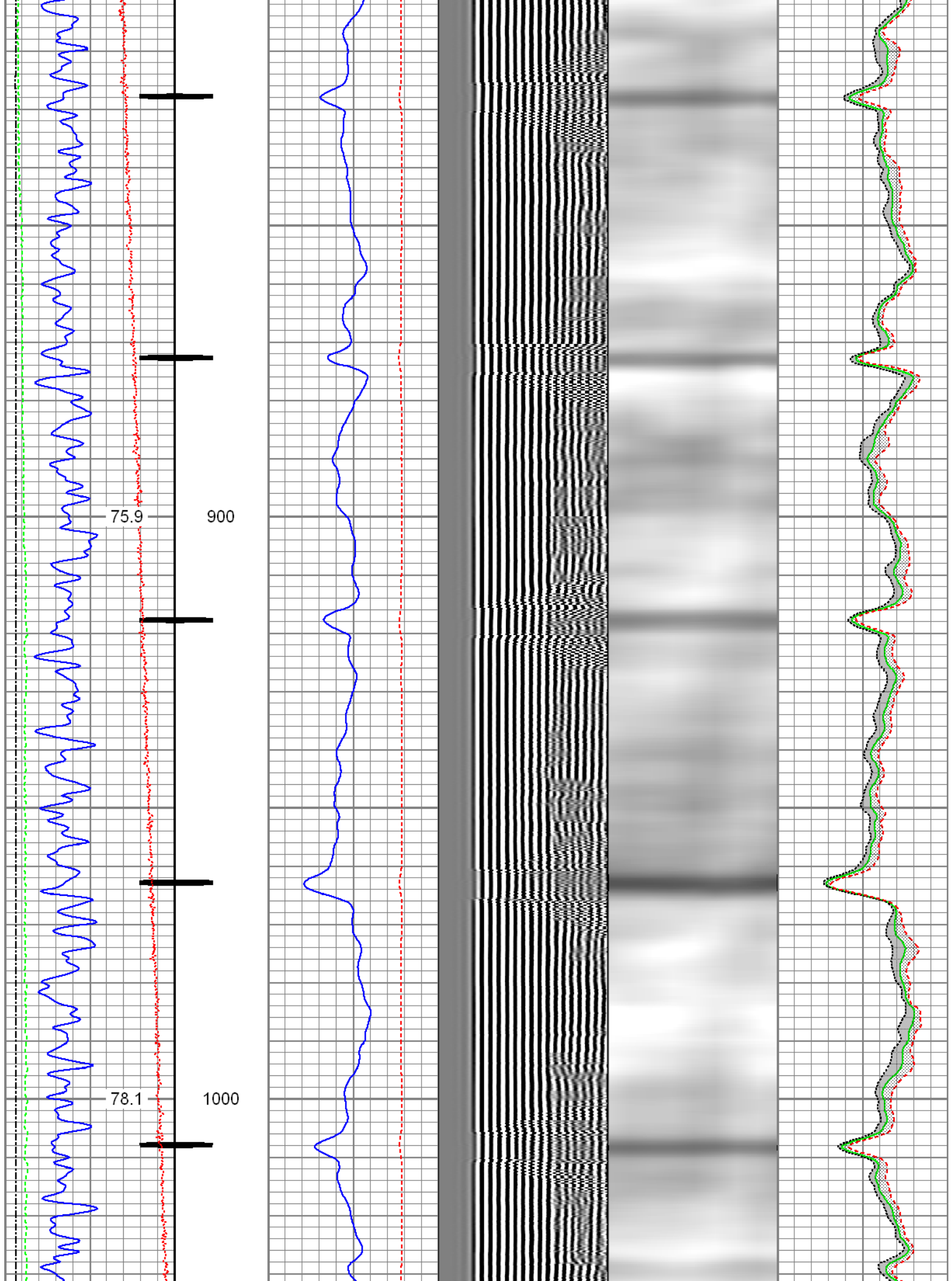
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
Temperature	0 (mV) 20			0 100
0 (degF) 20	3' Travel Time			Maximum Amplitude
Line Speed	650 (usec) 150			0 100
-150 (ft/min) 150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

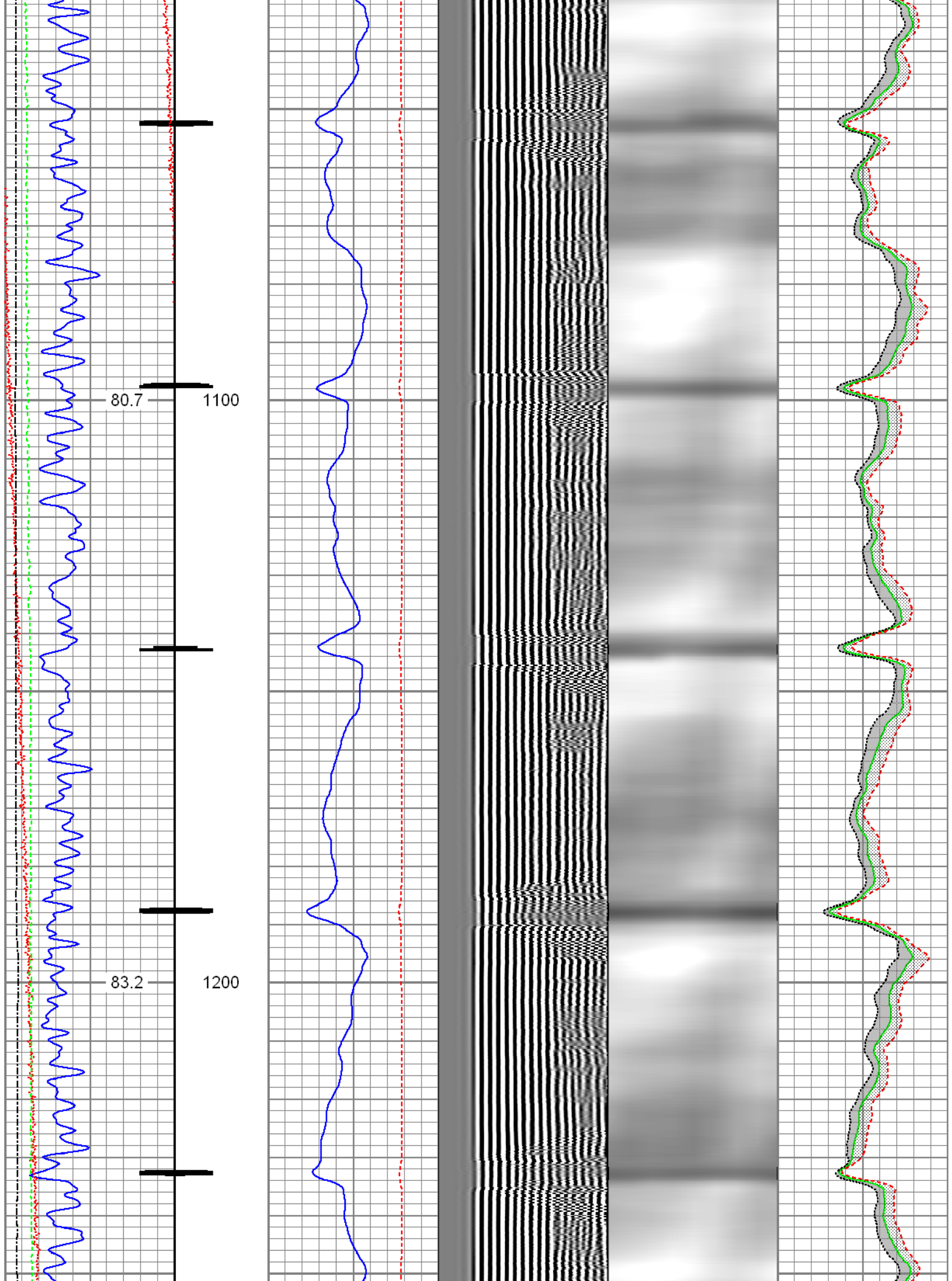


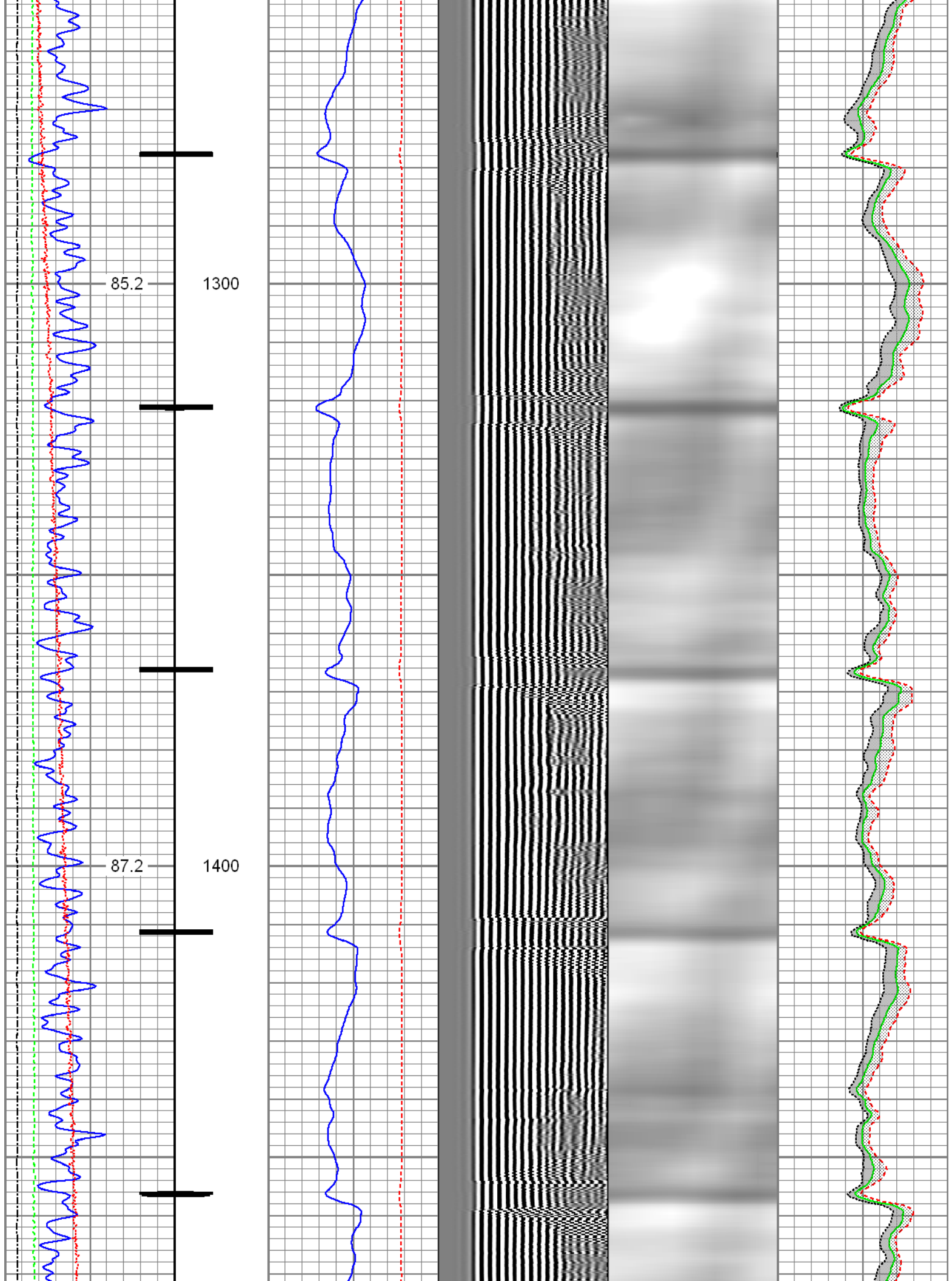


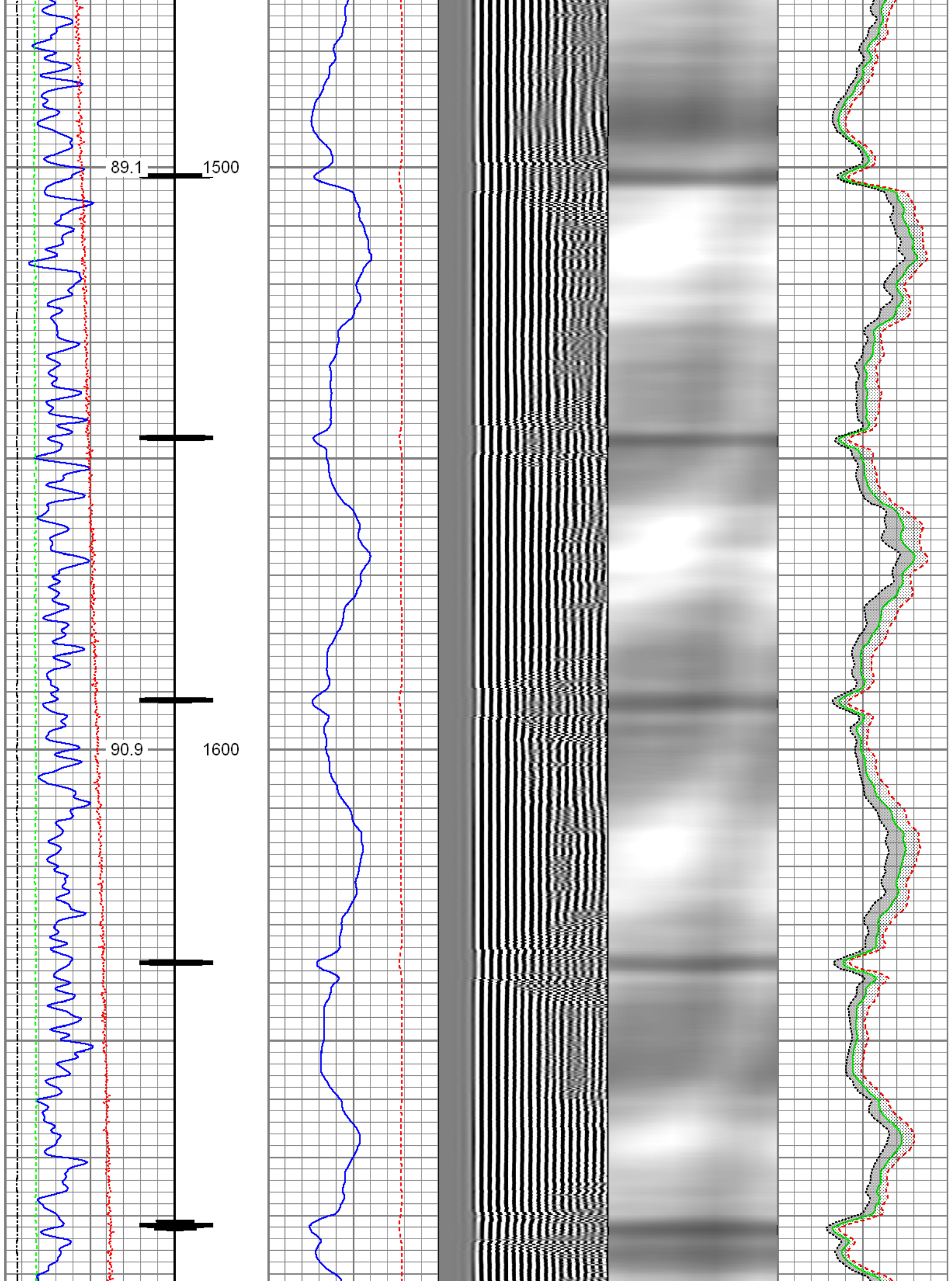


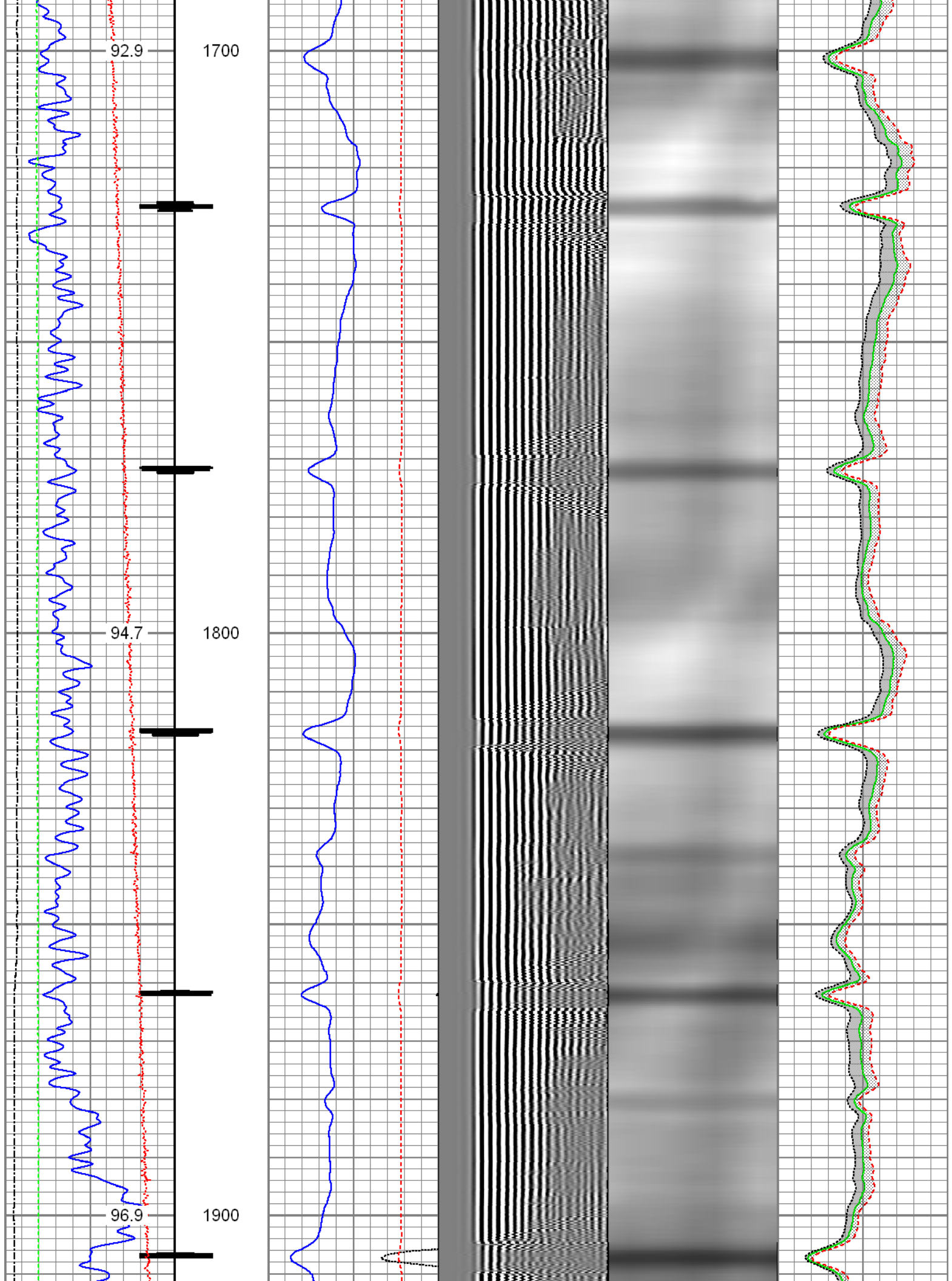


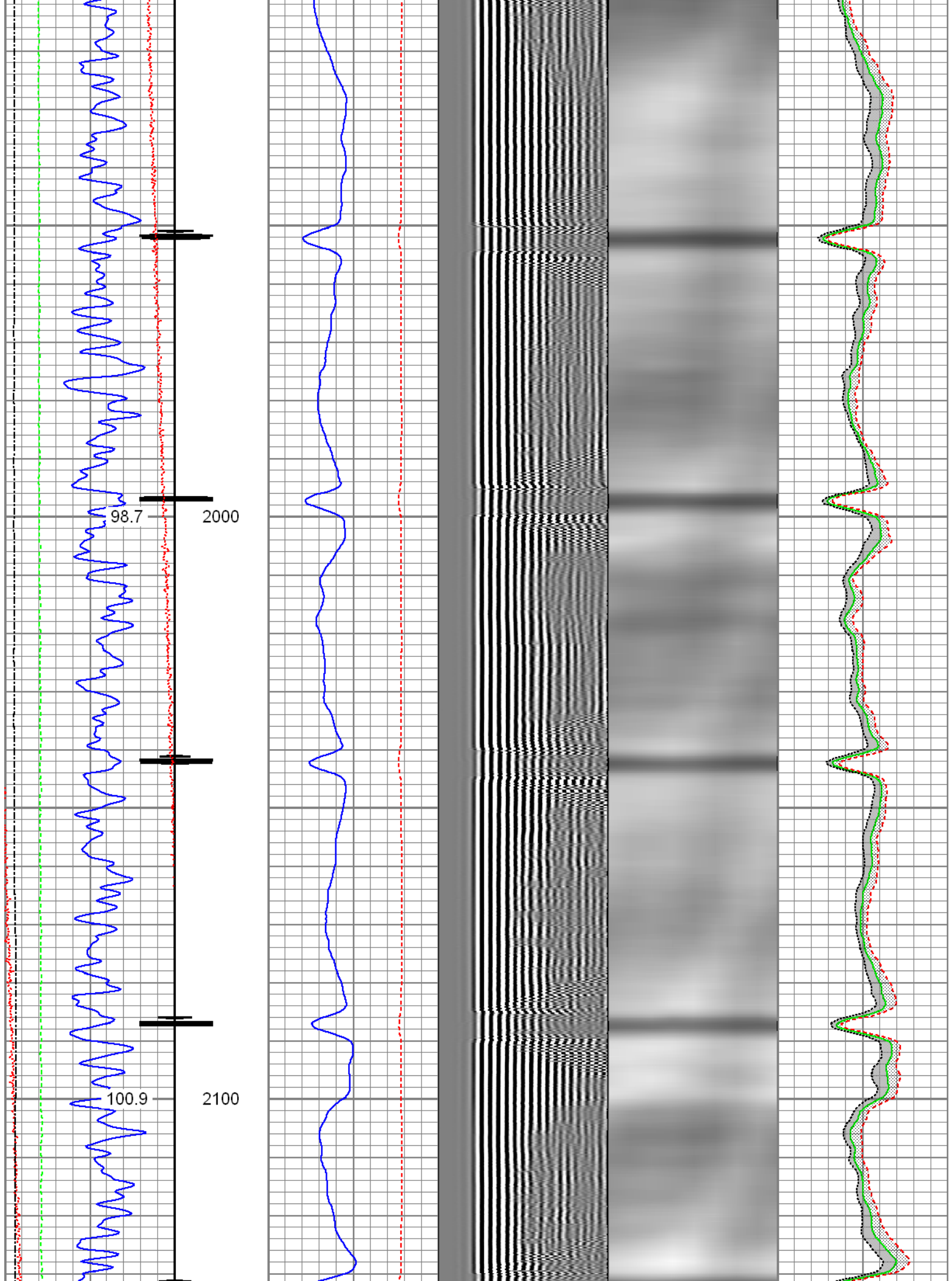


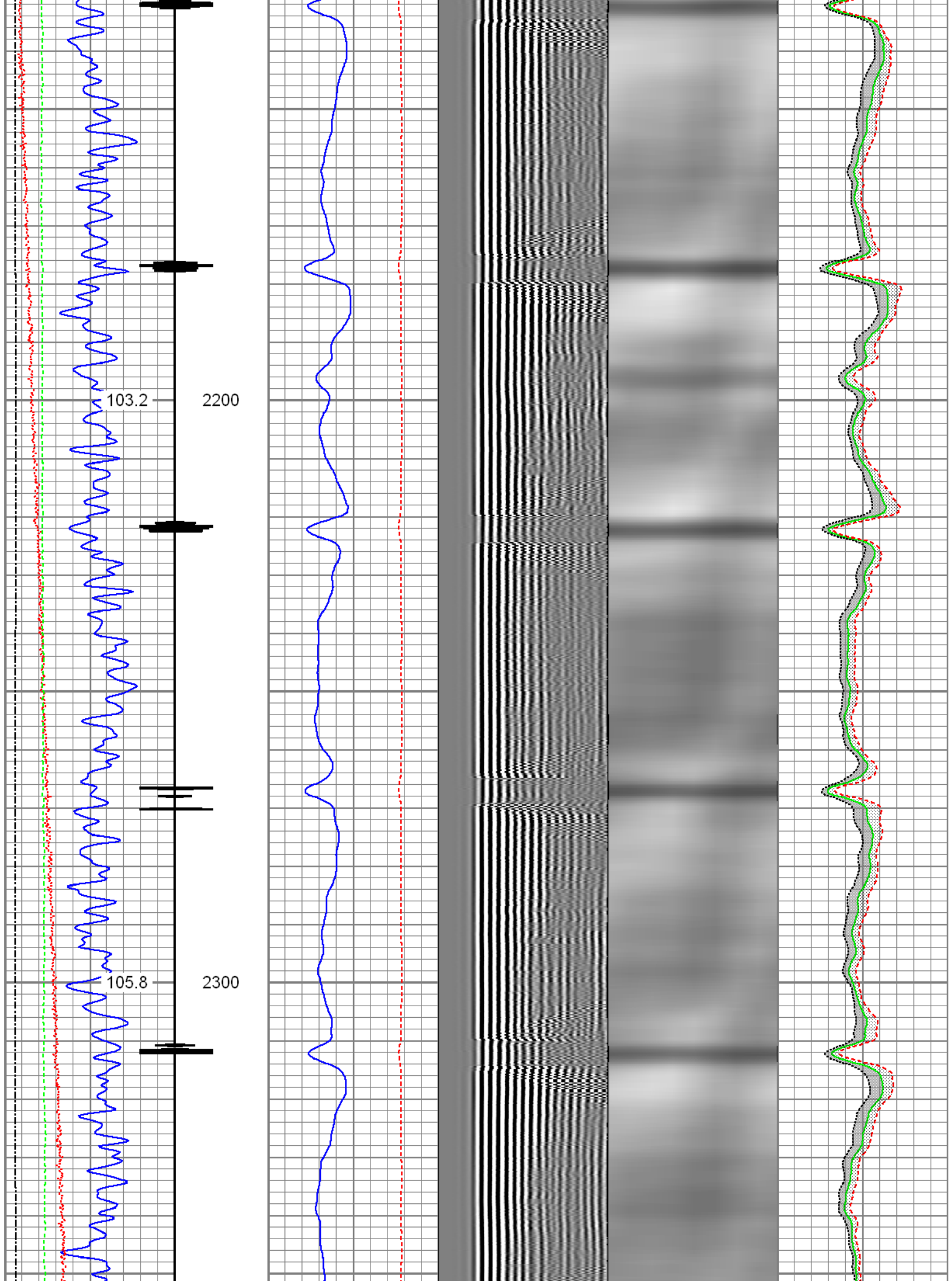


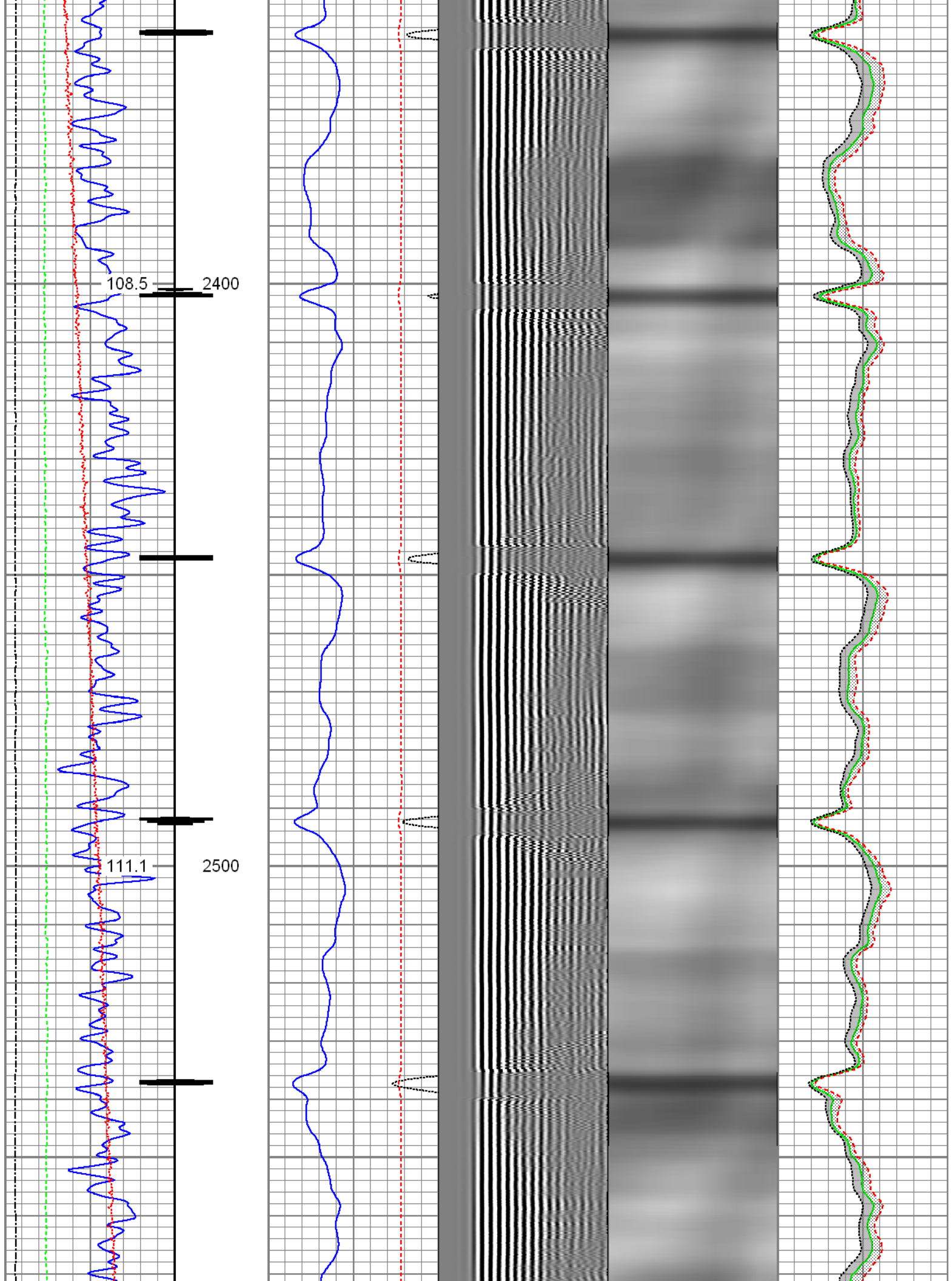


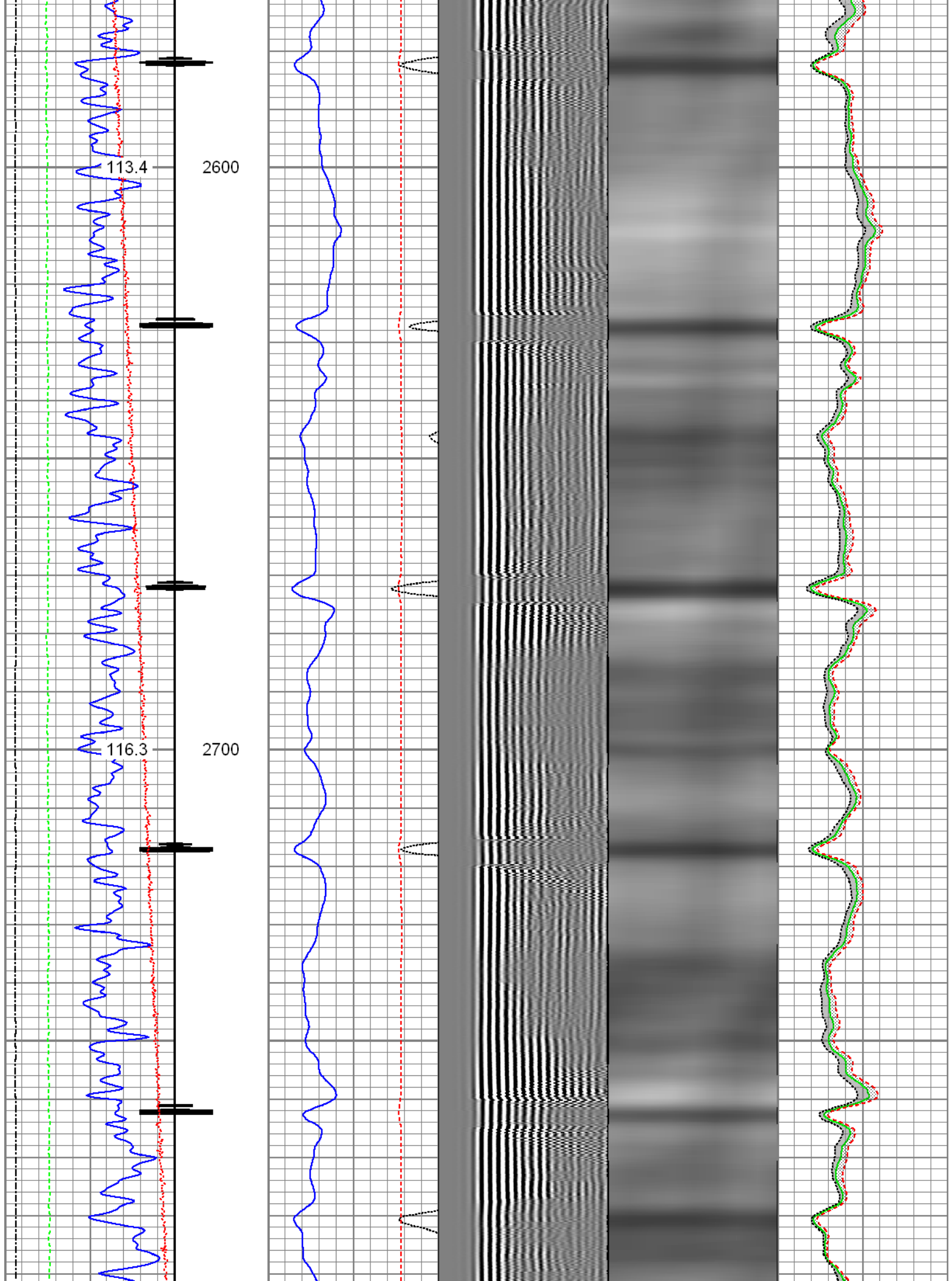


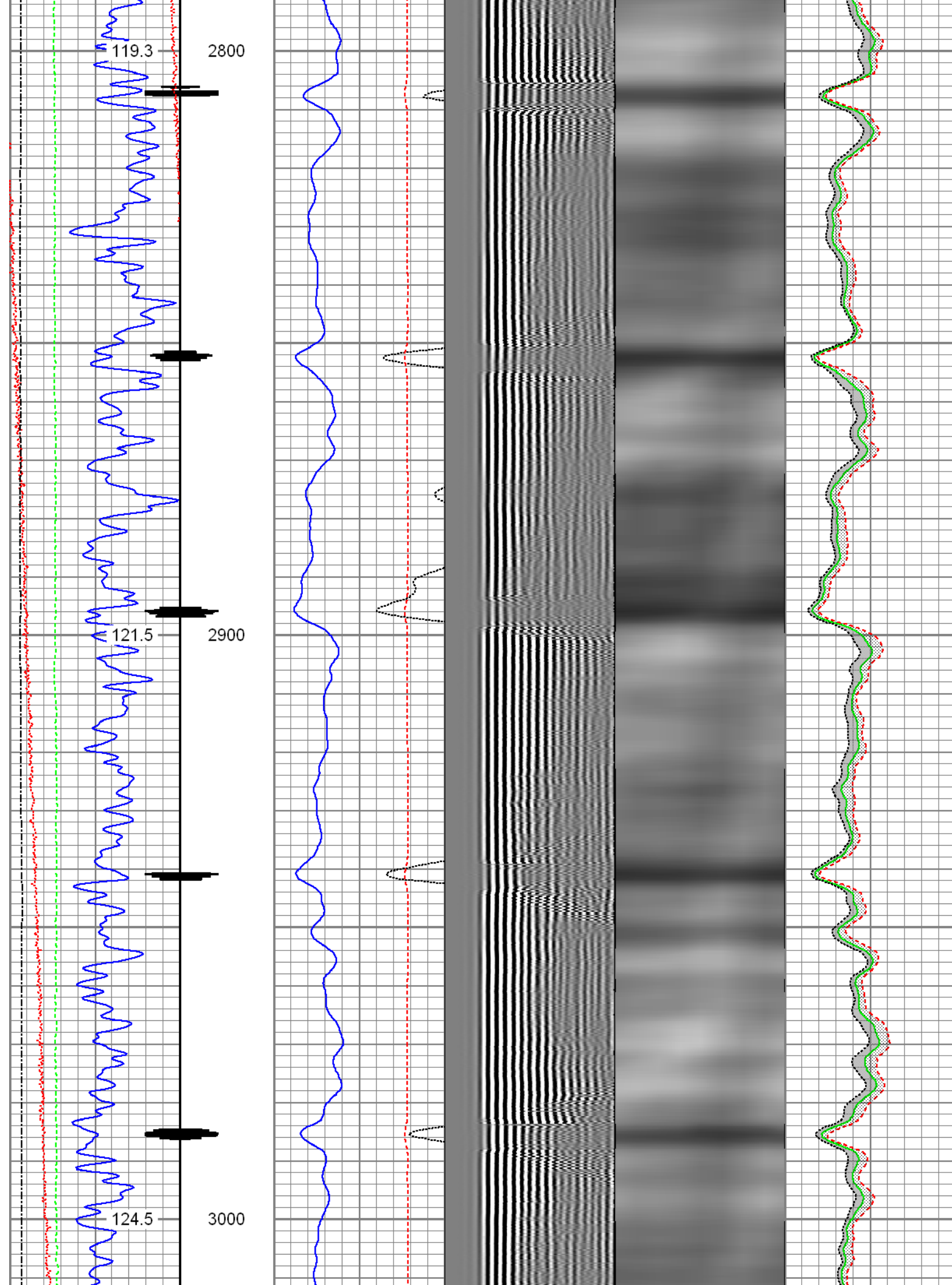


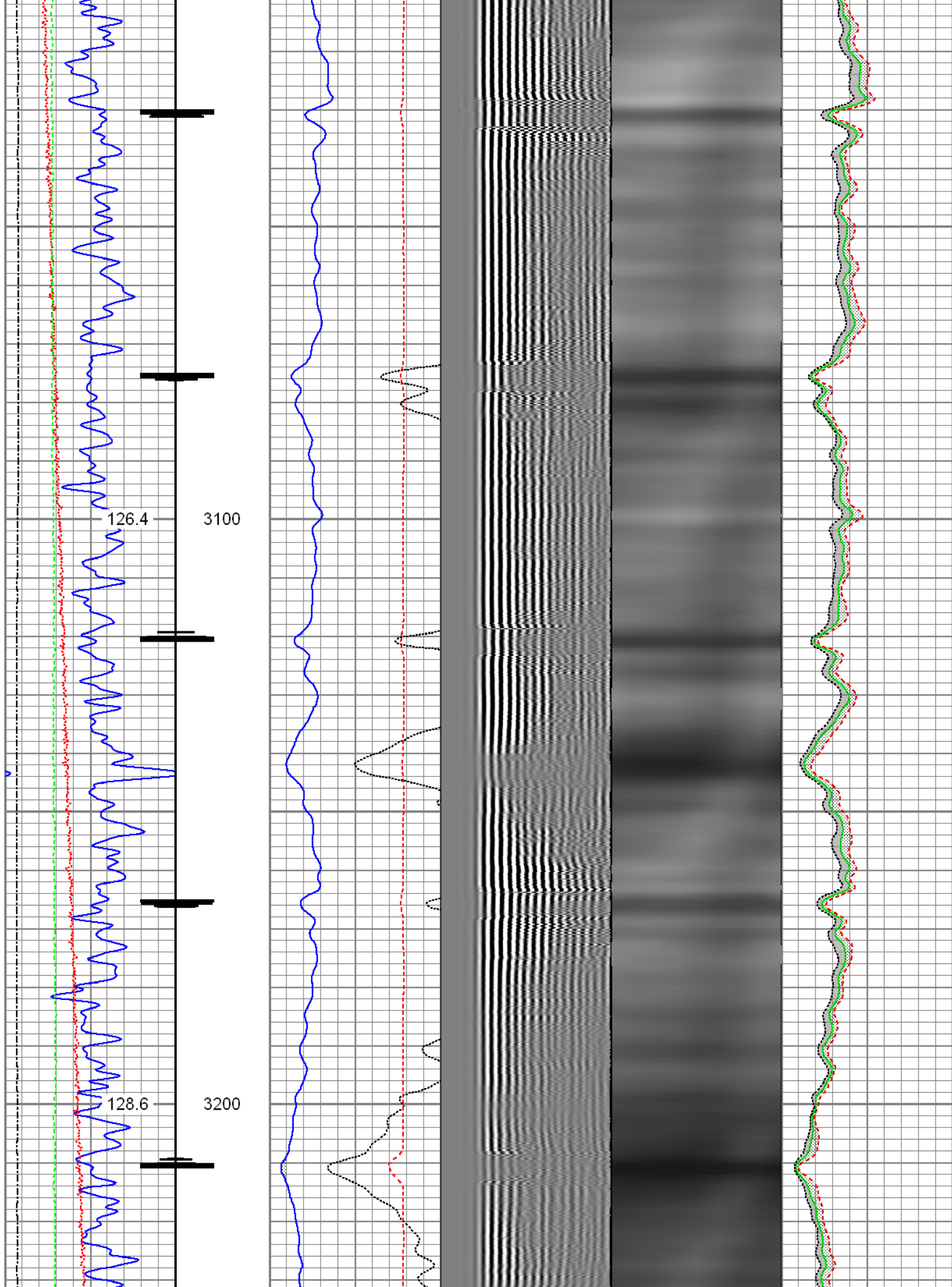


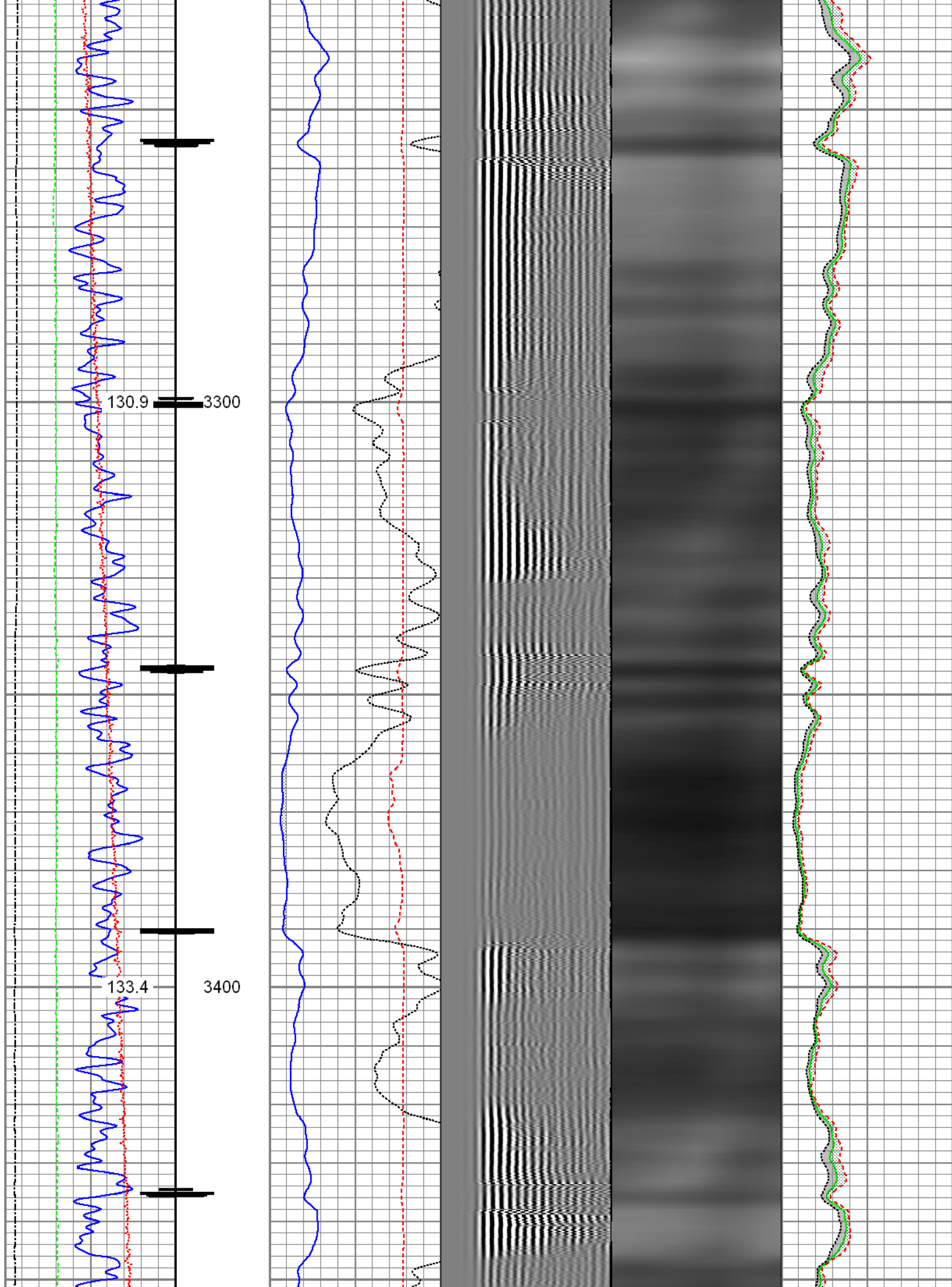


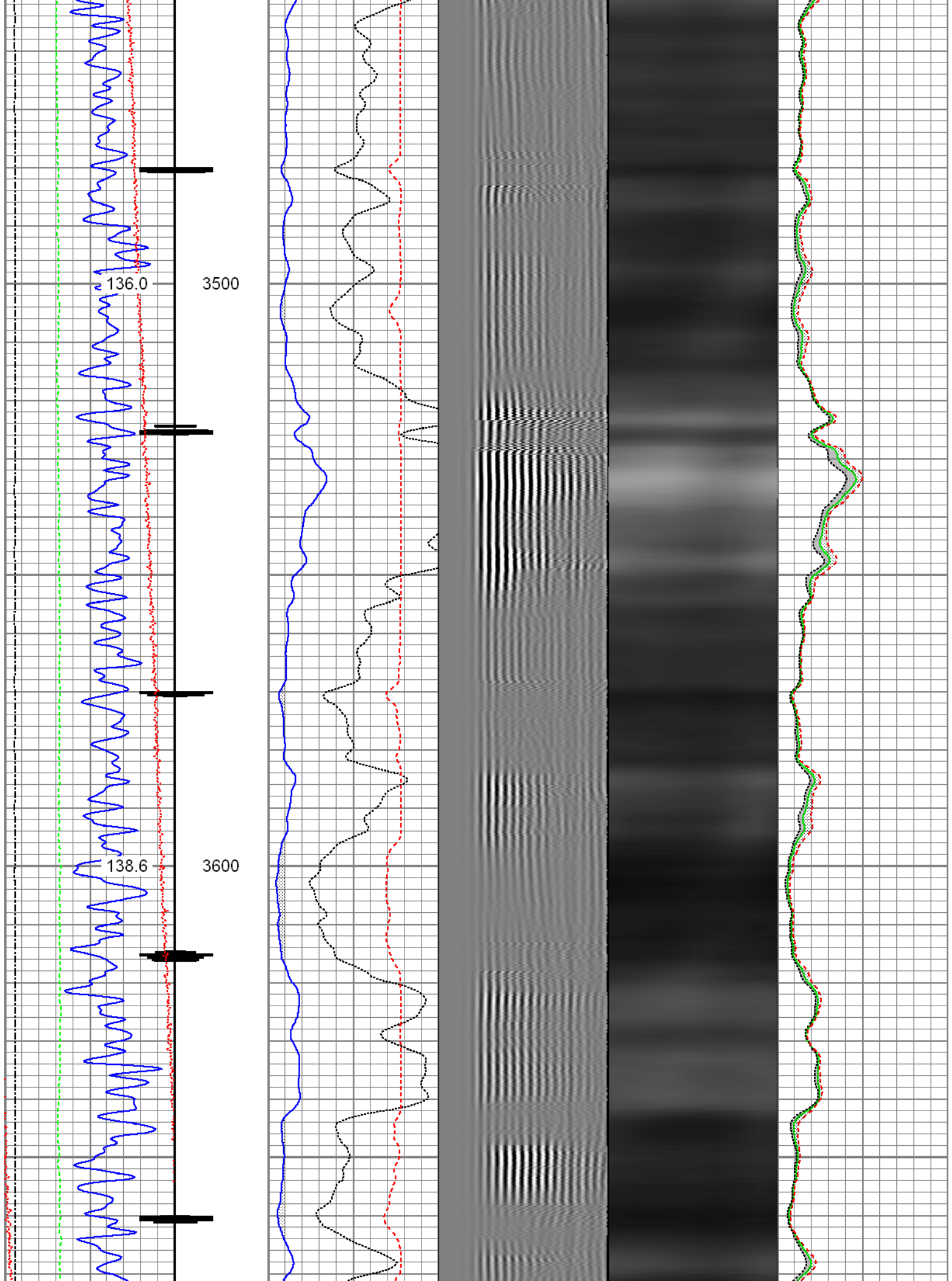


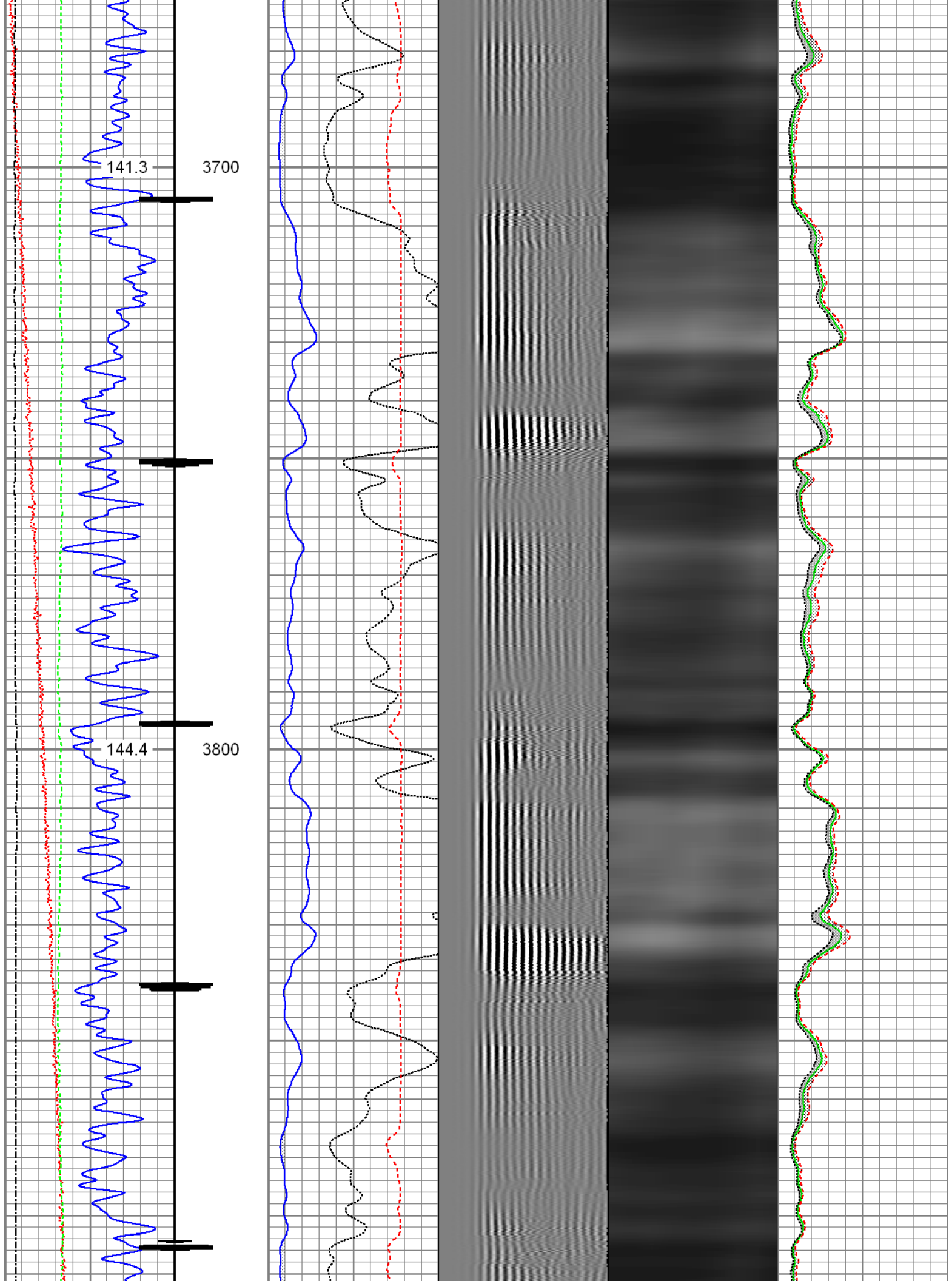


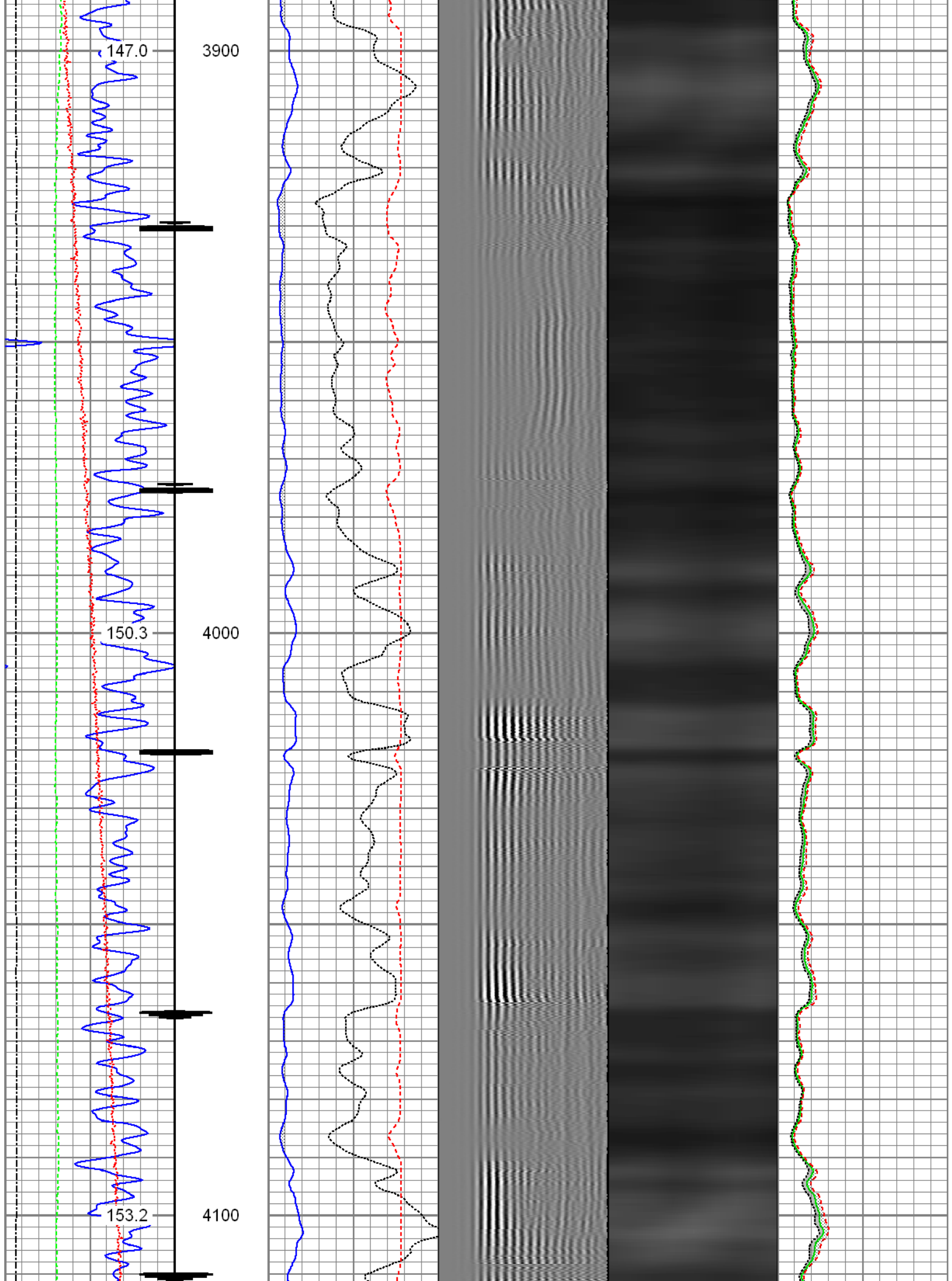


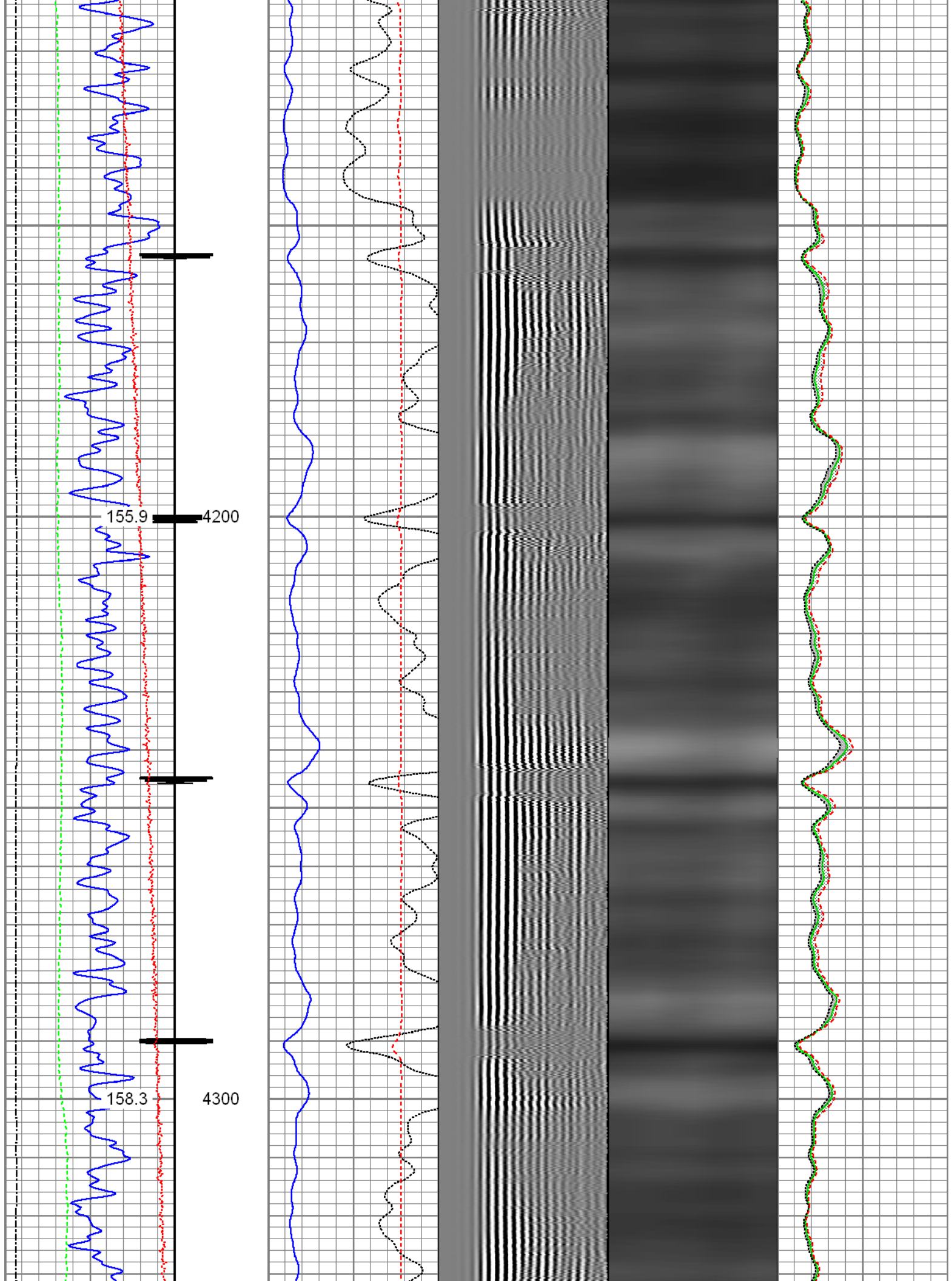


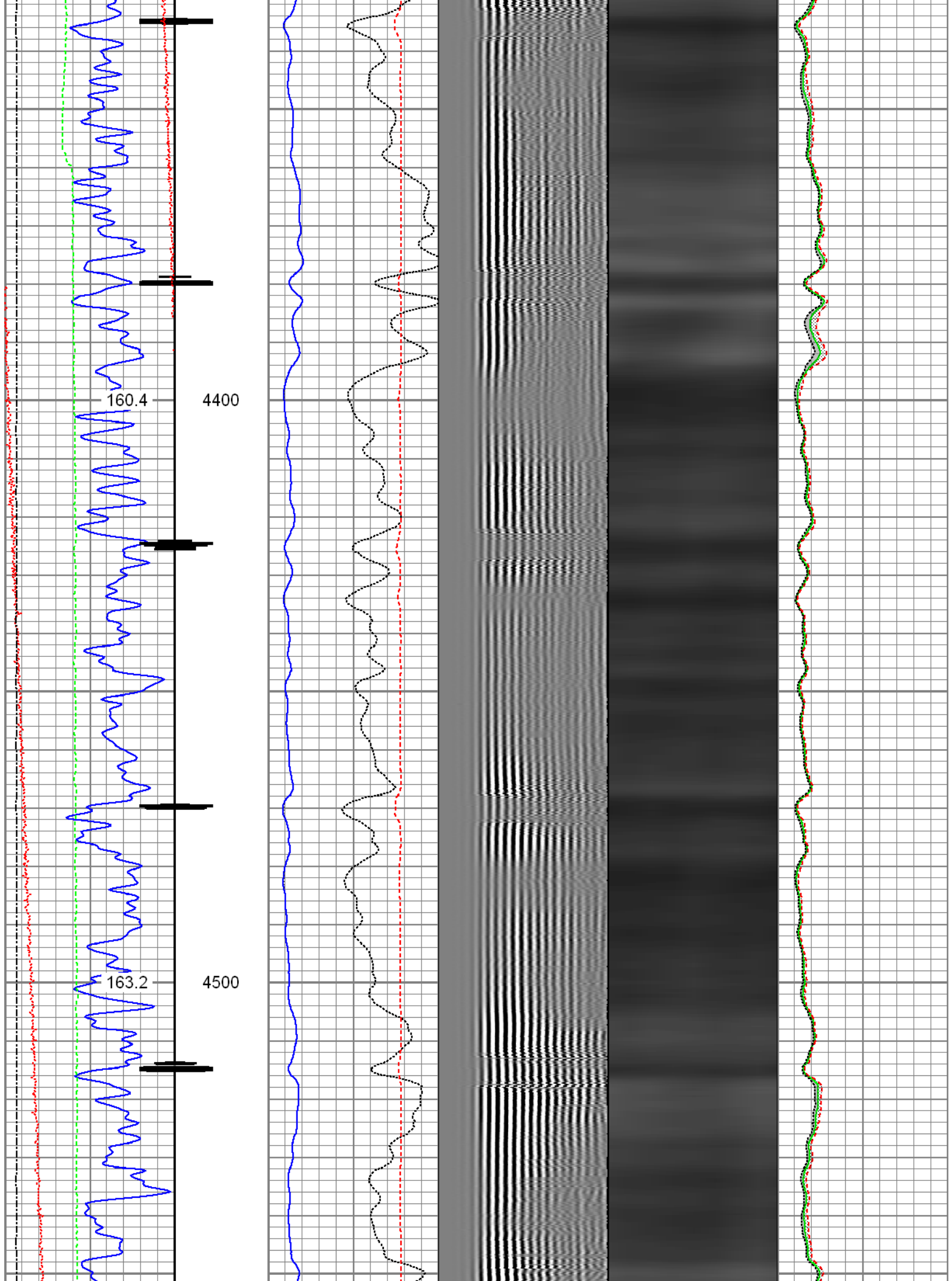


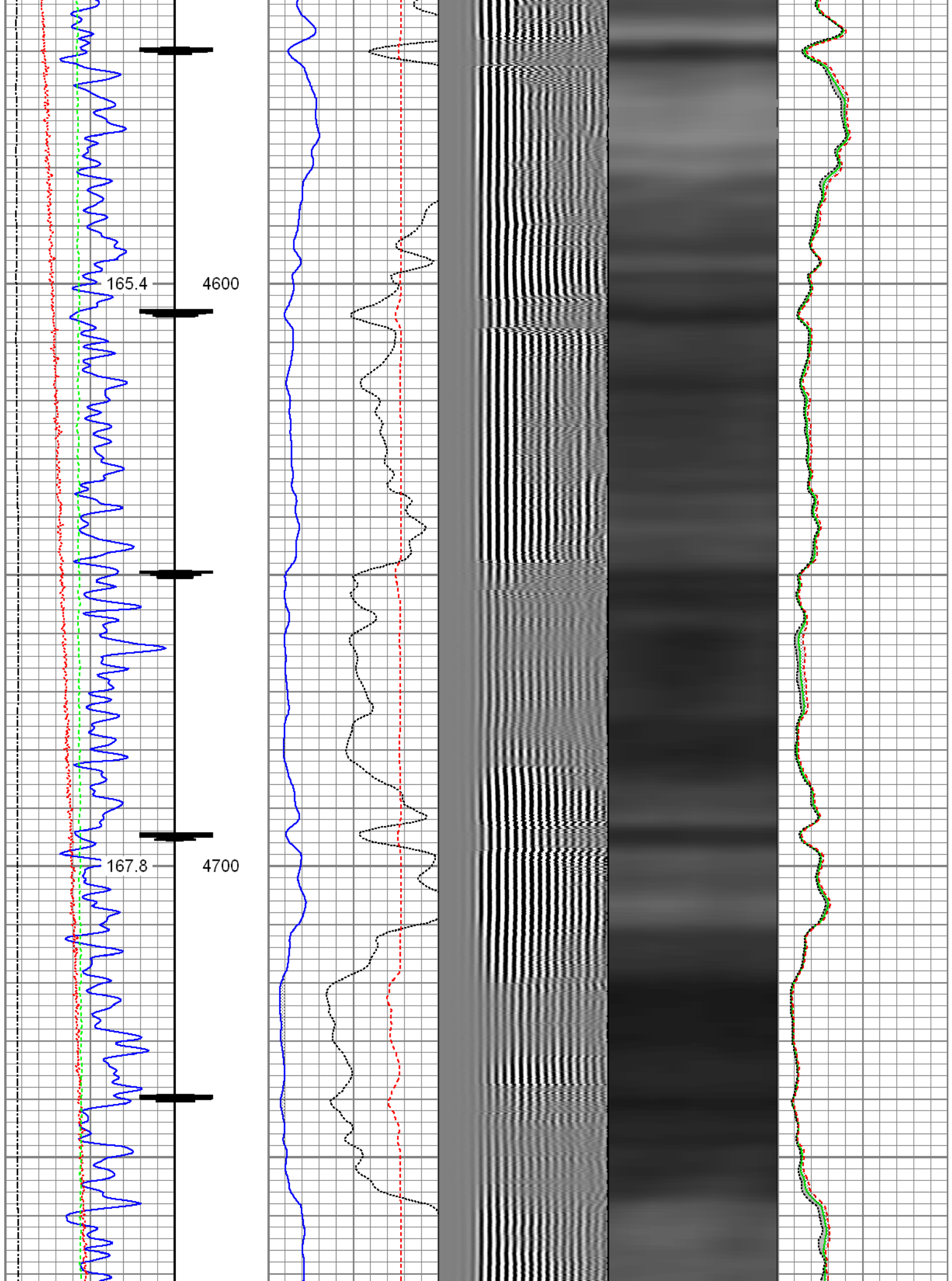


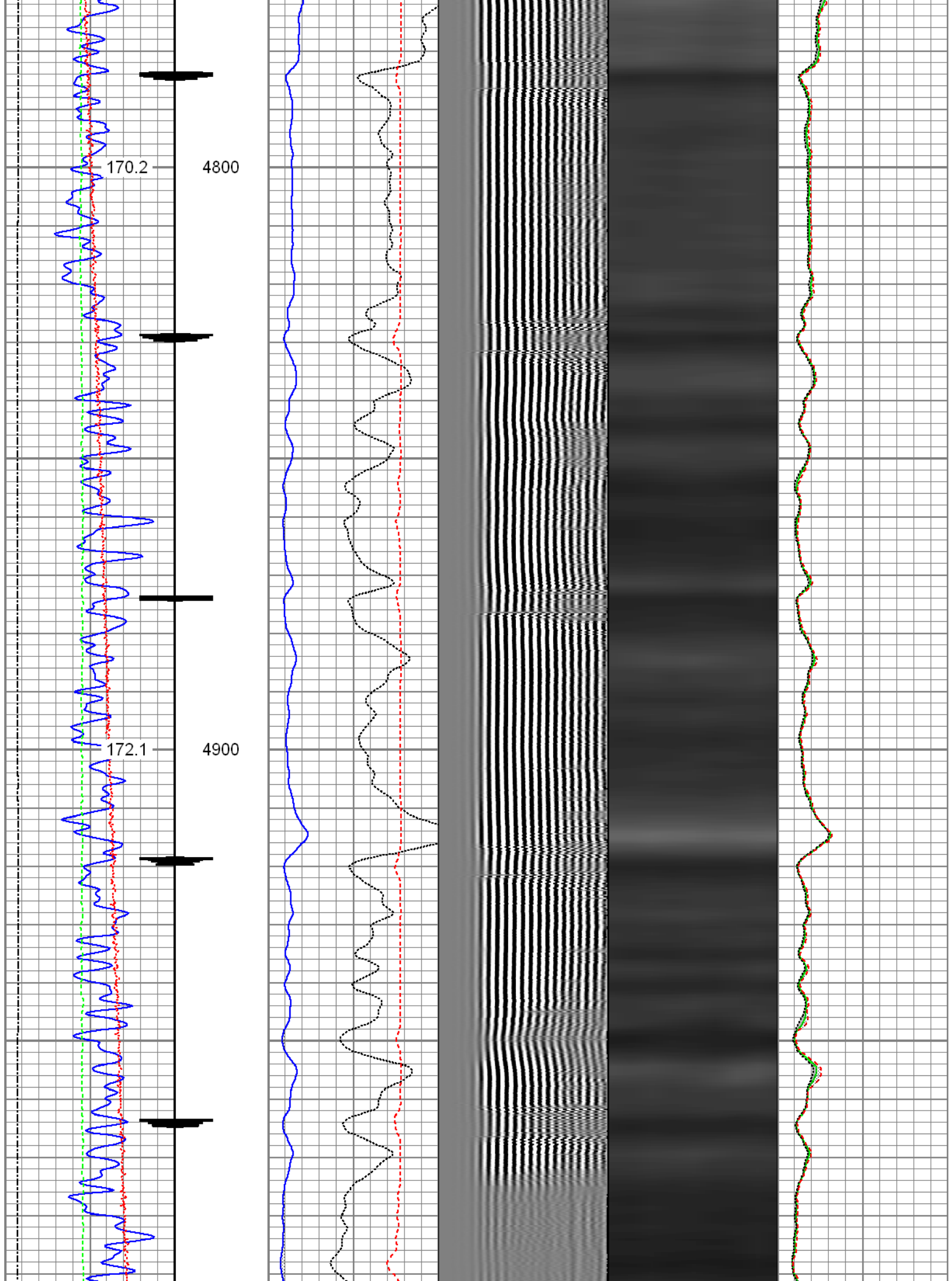


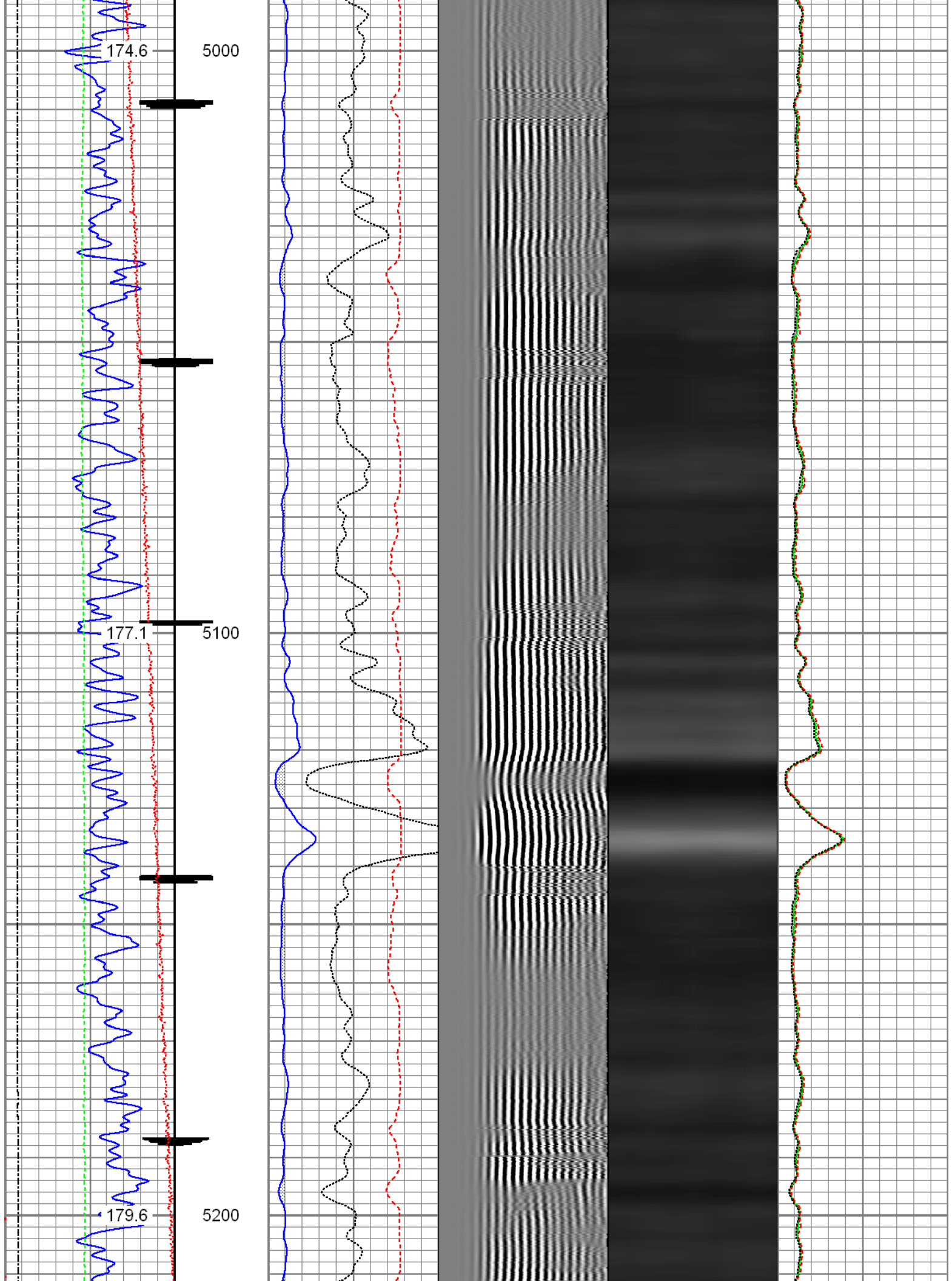


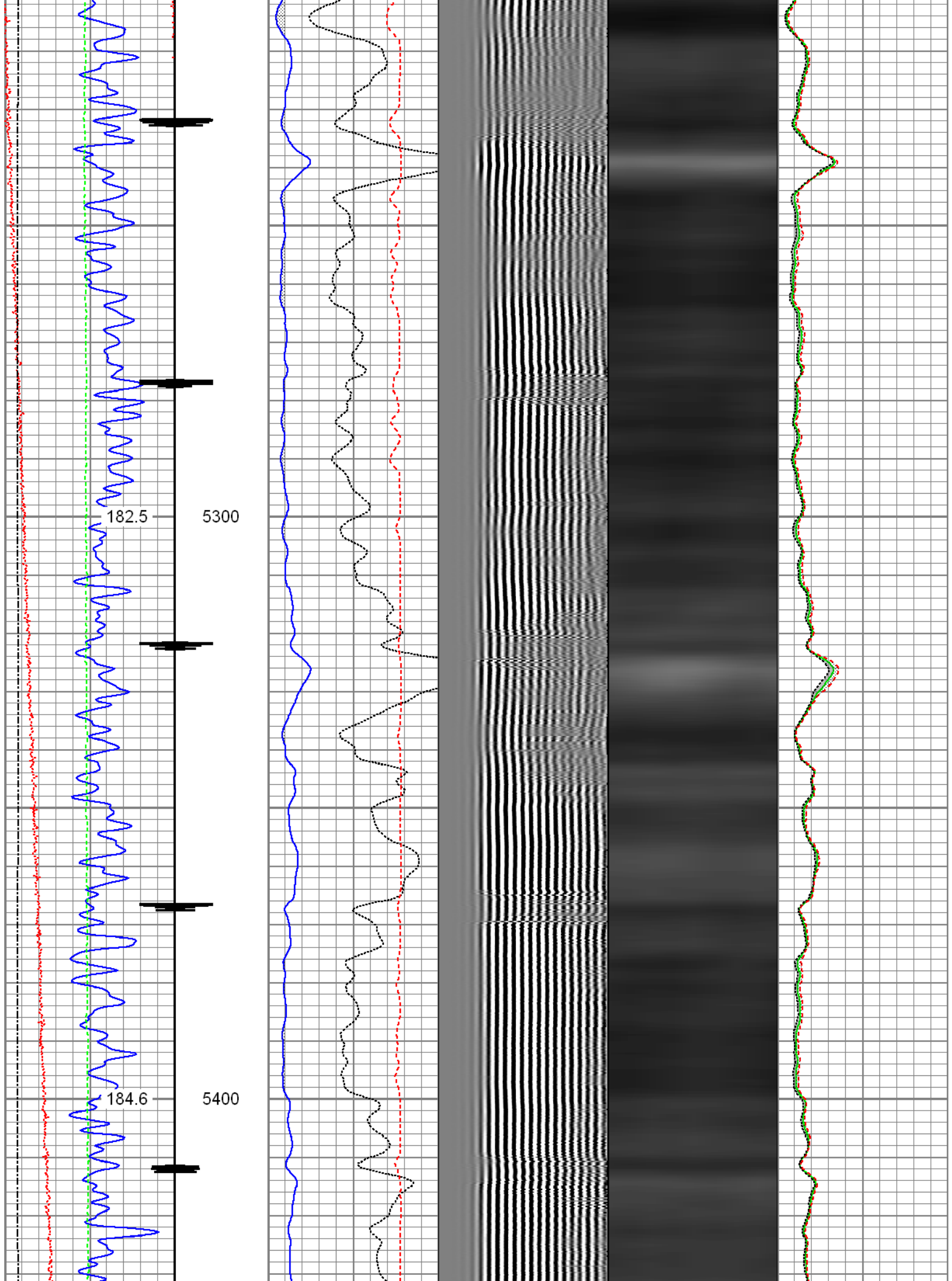


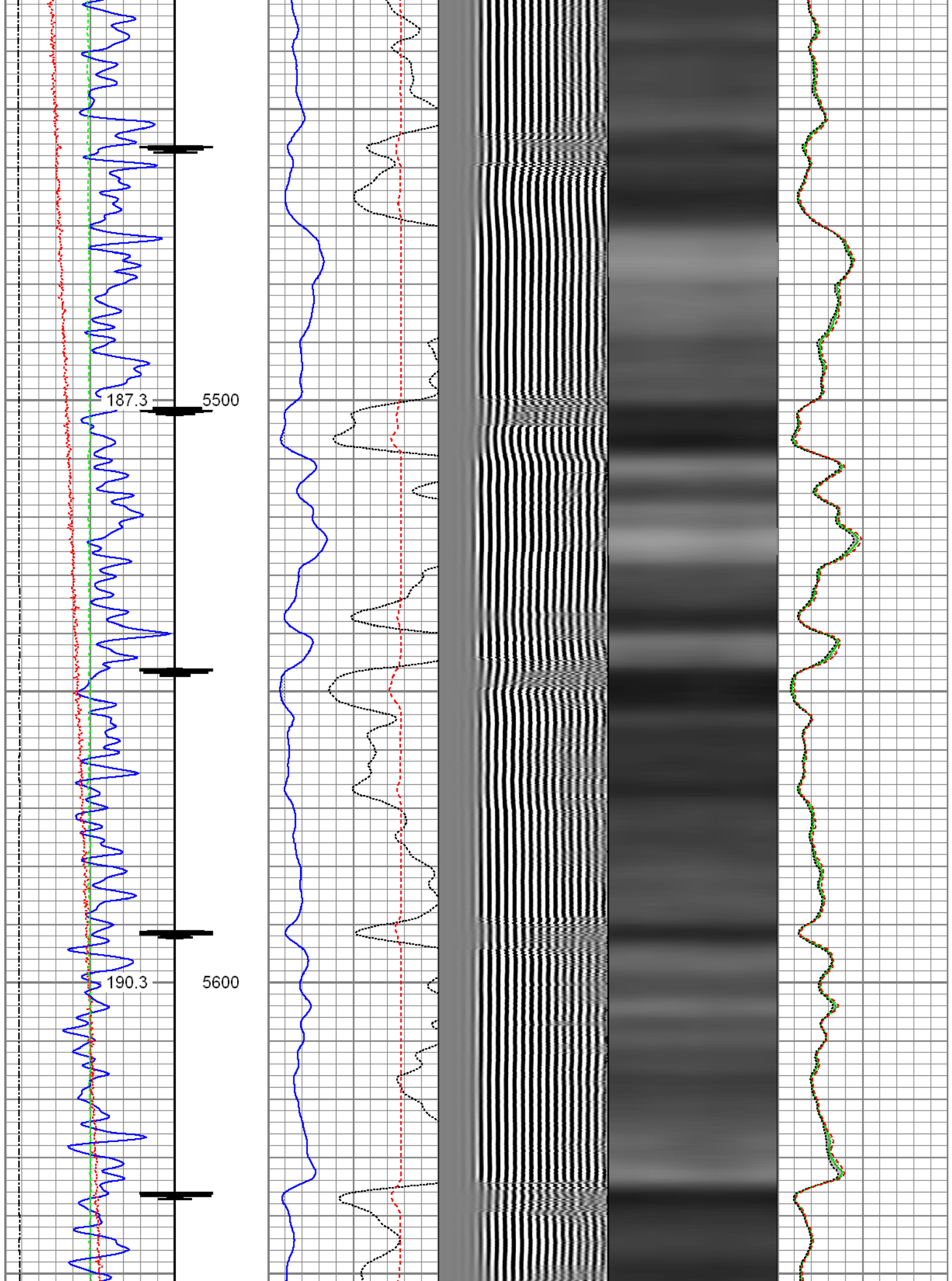


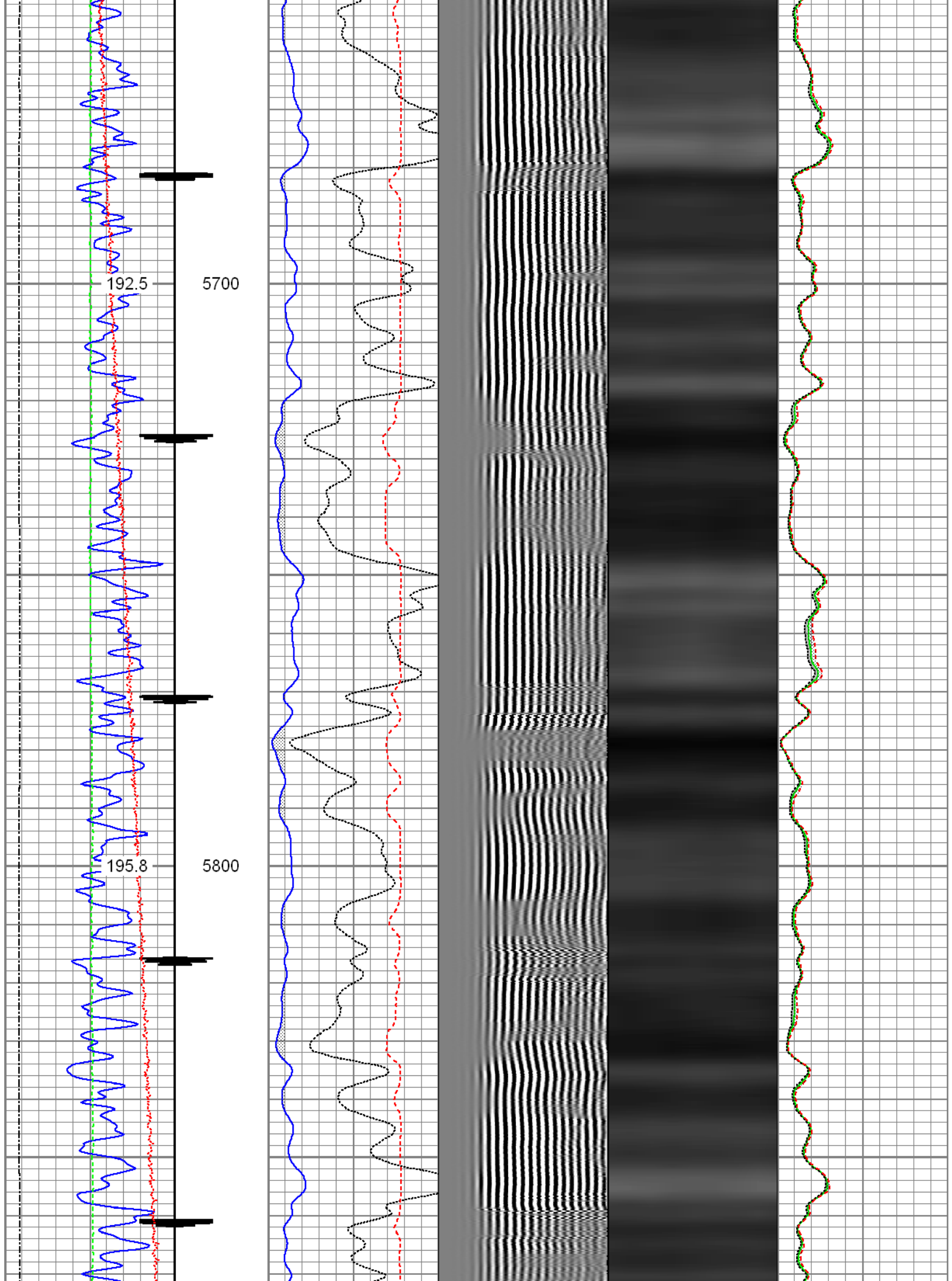


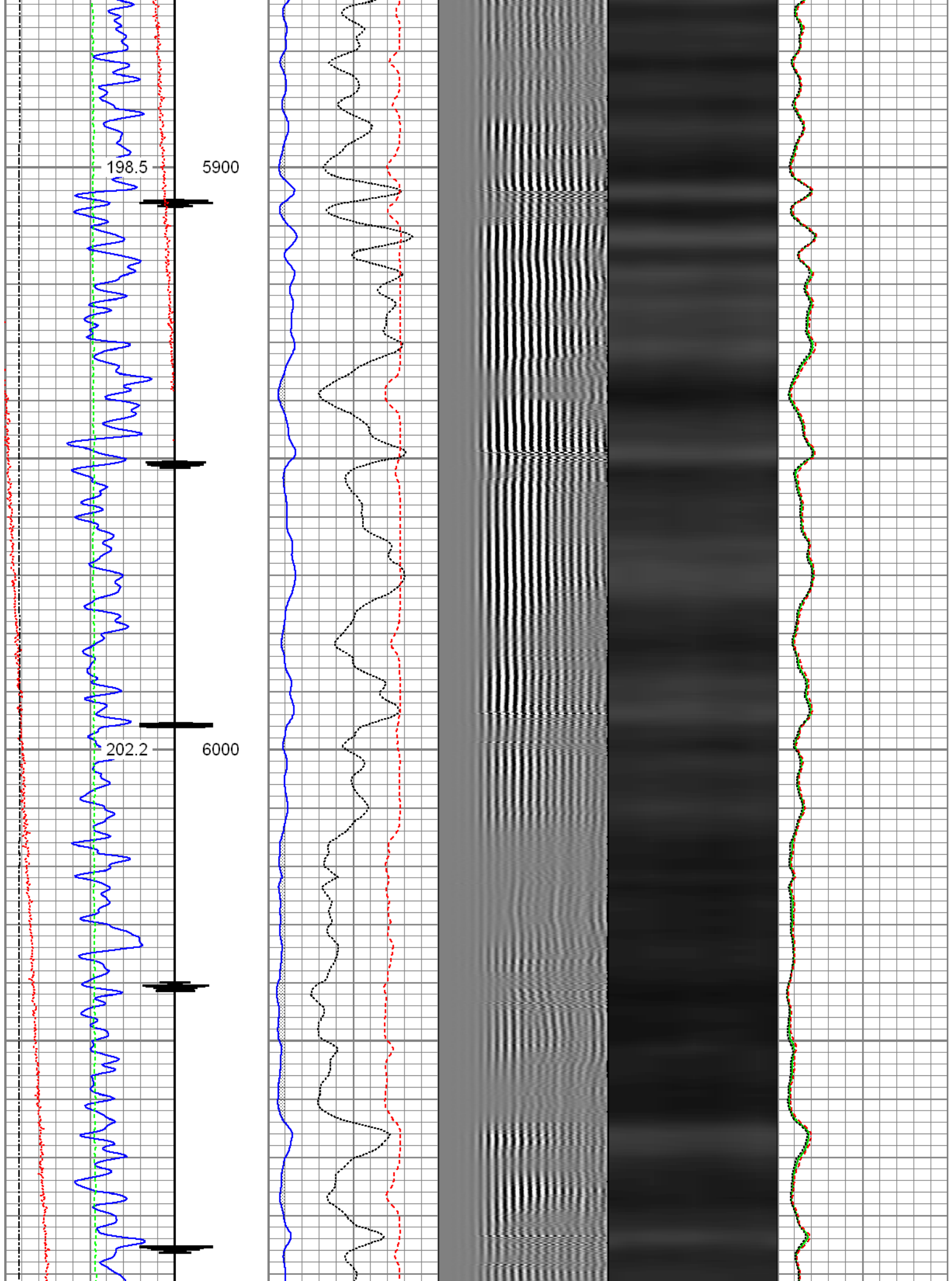


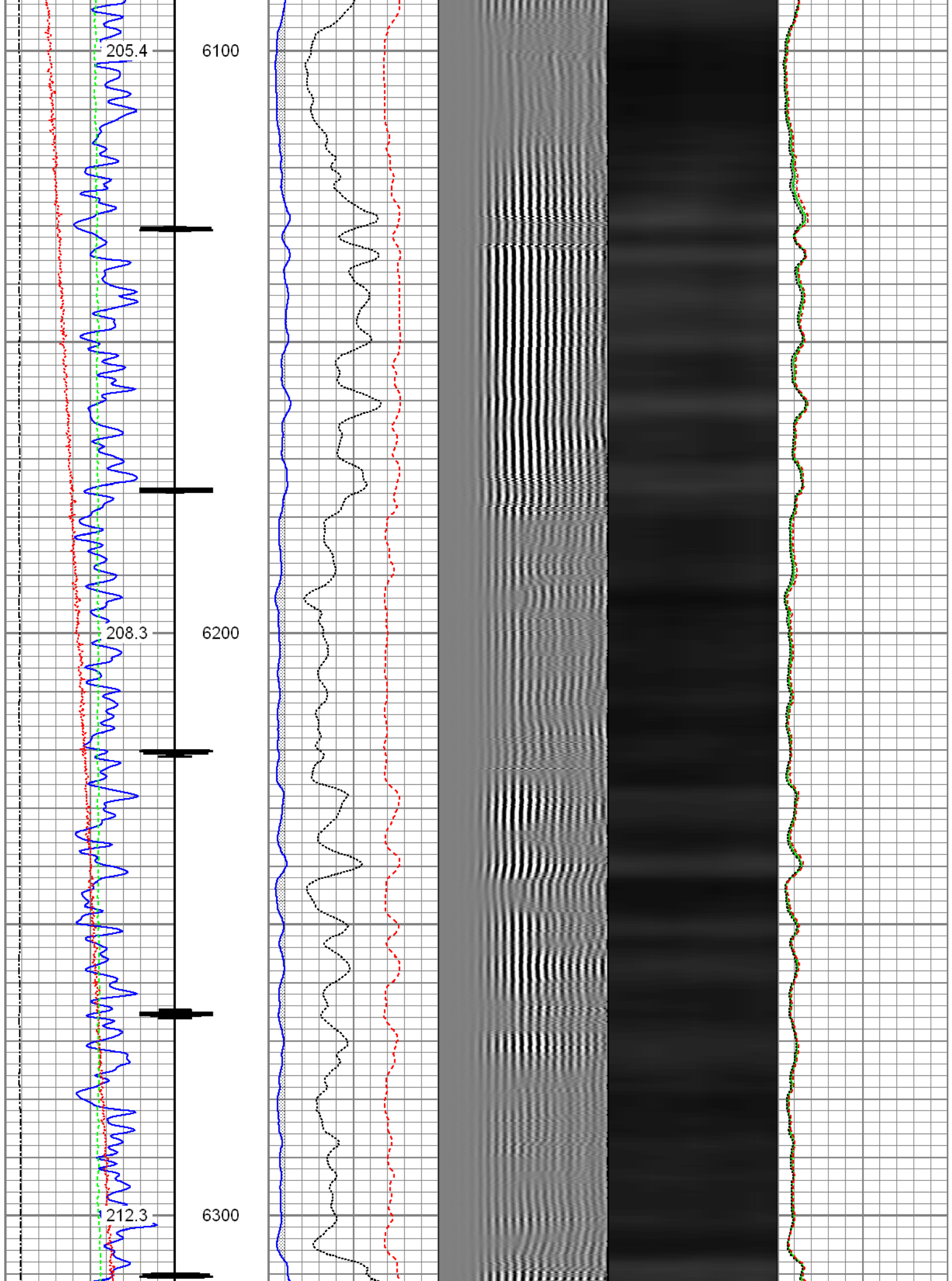


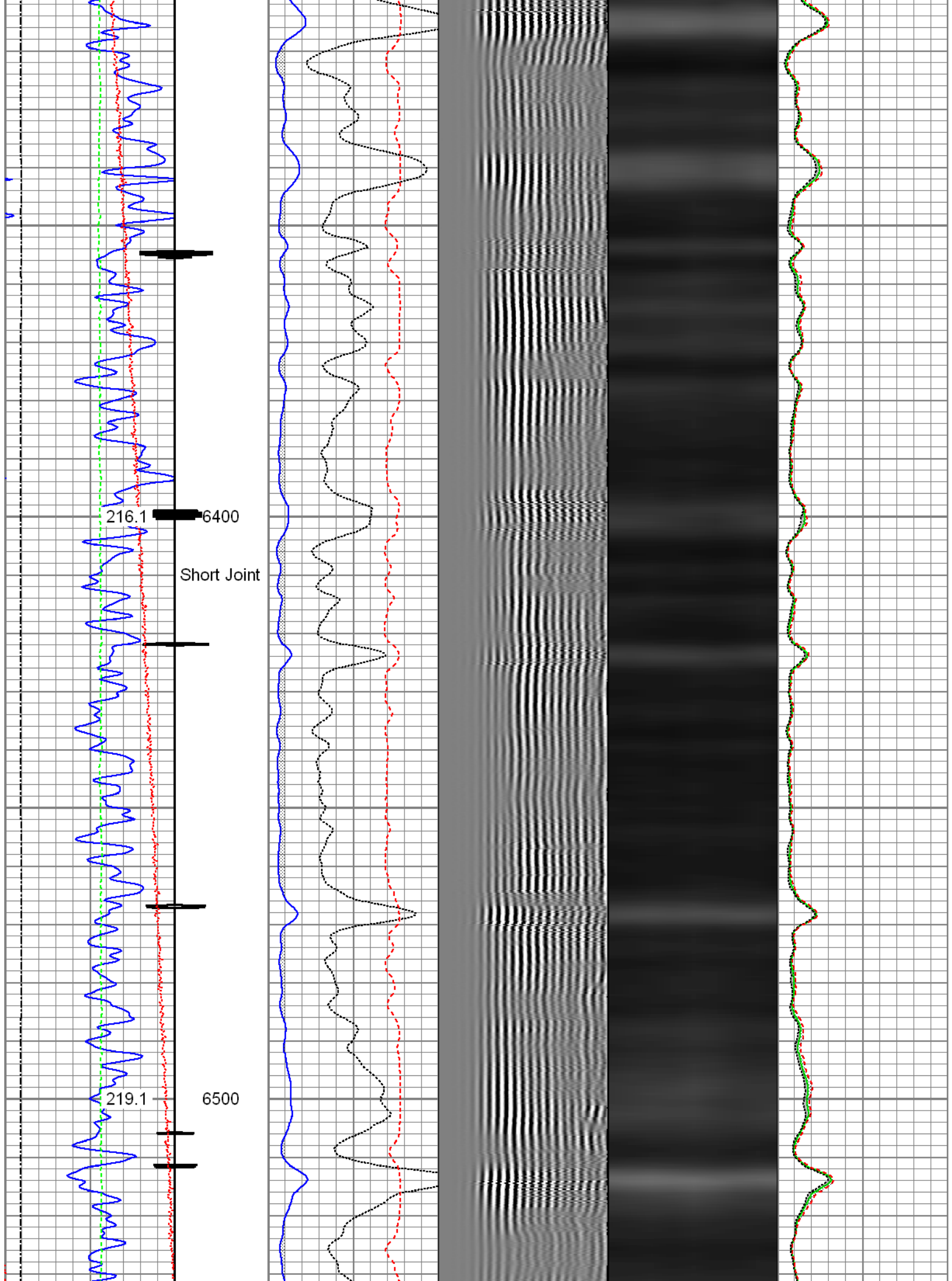


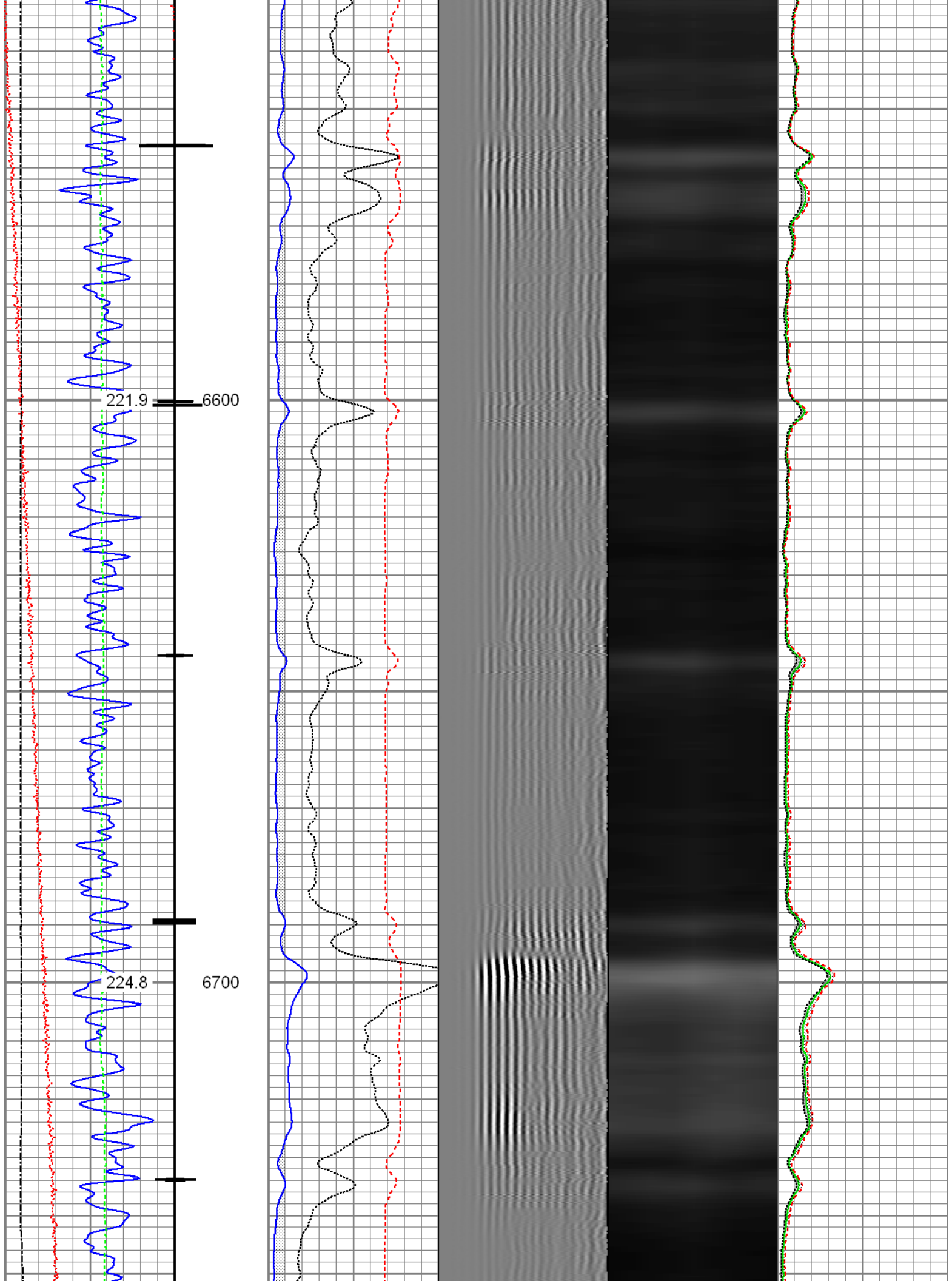


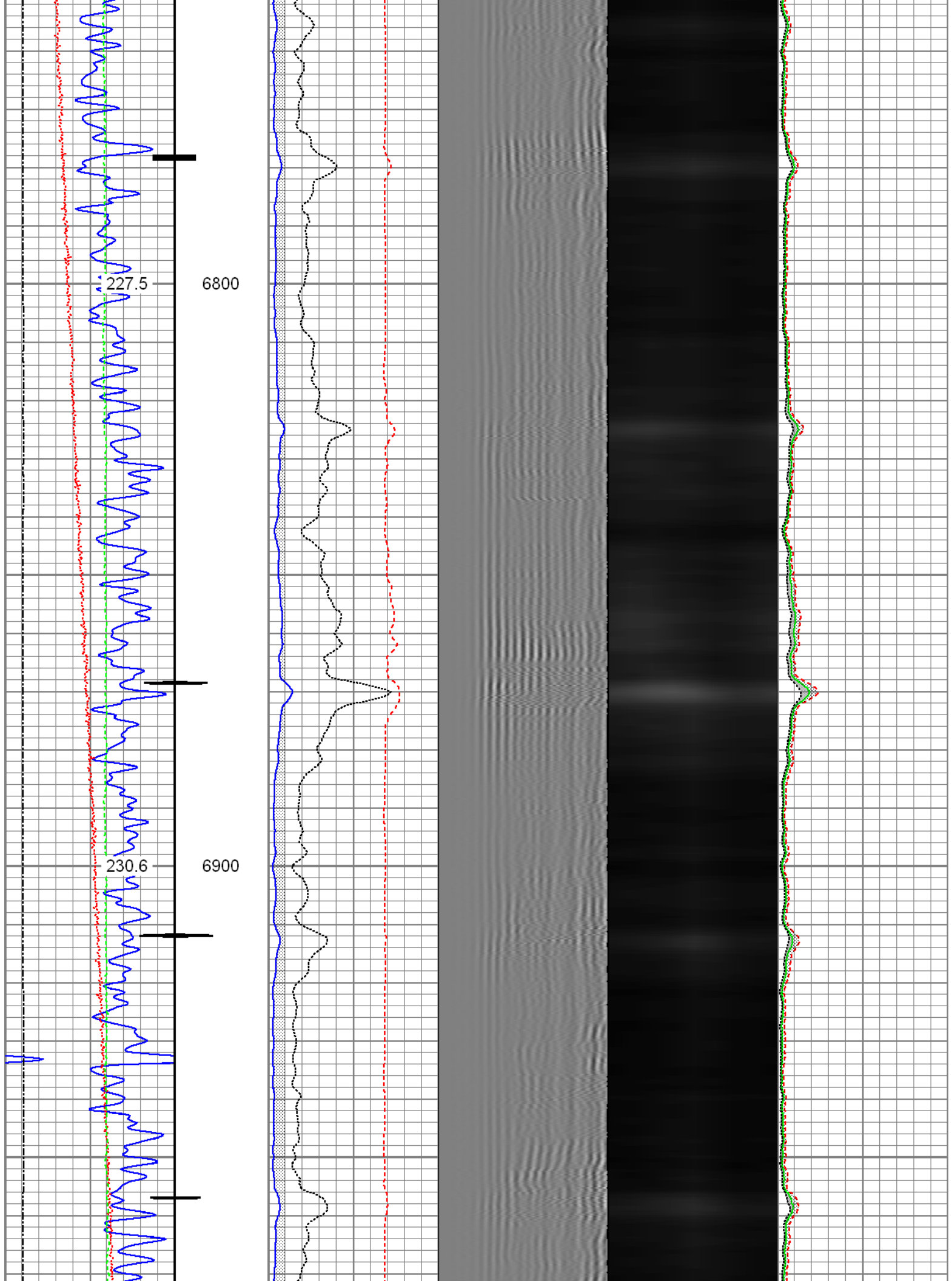


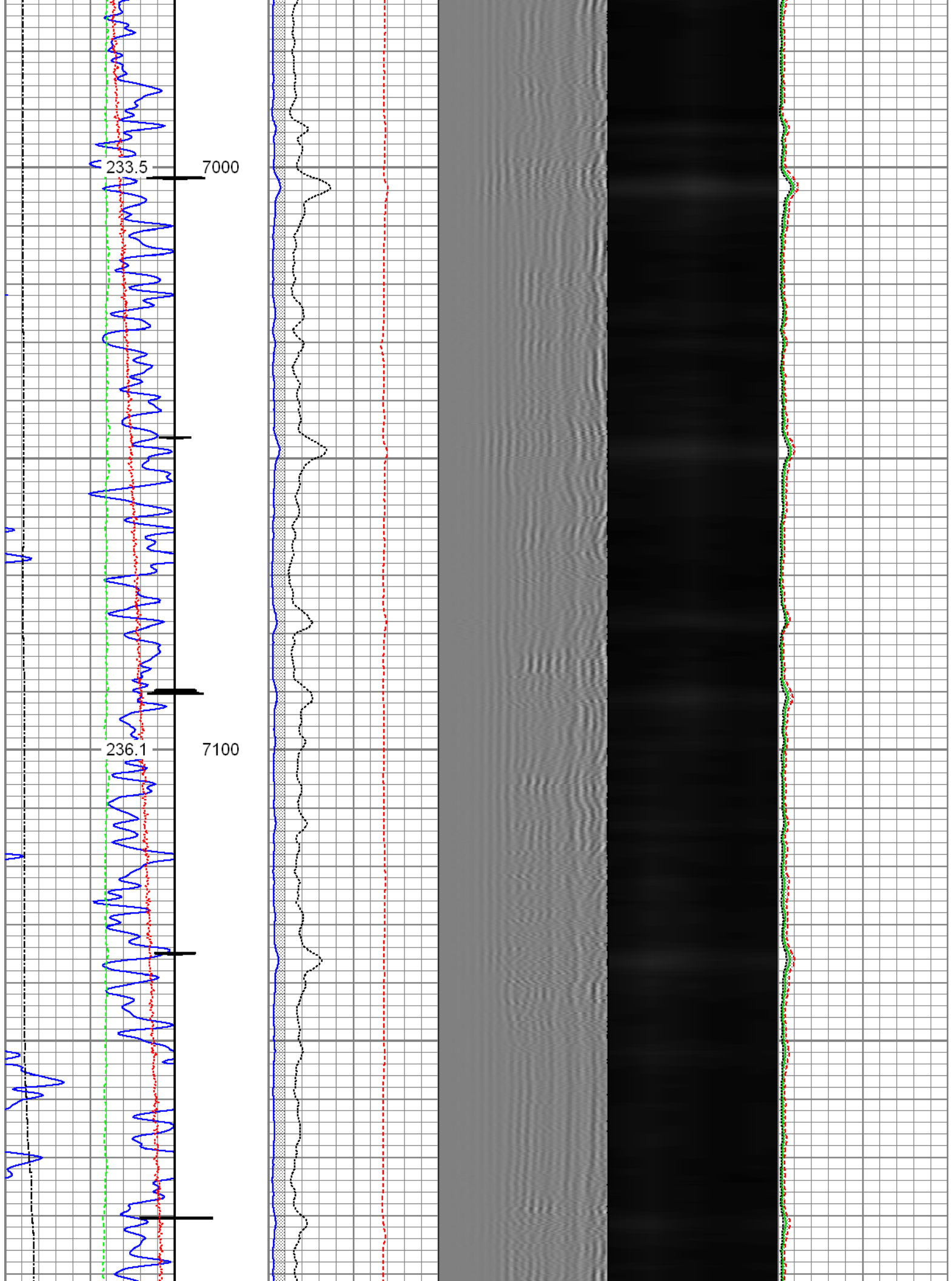


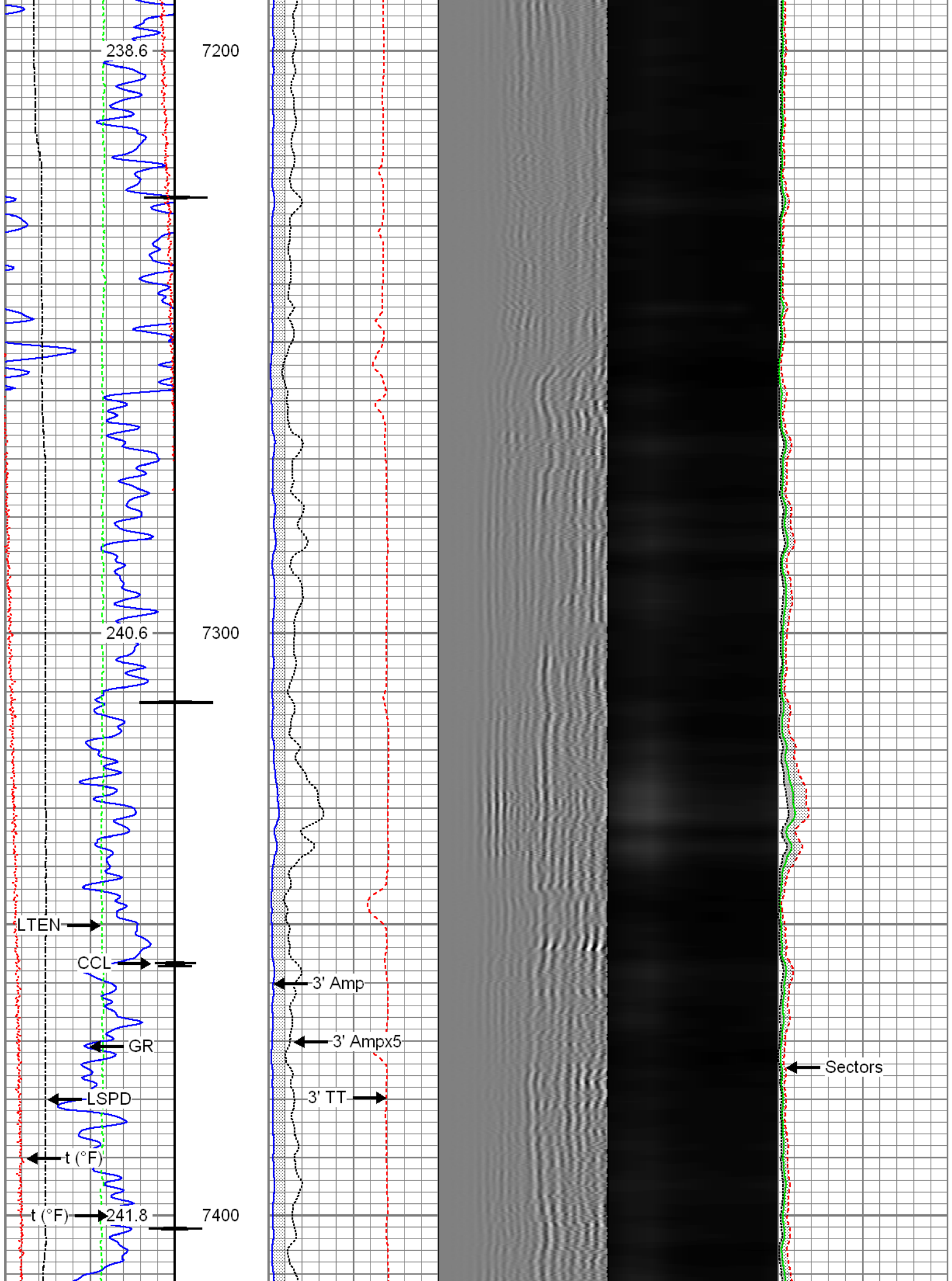


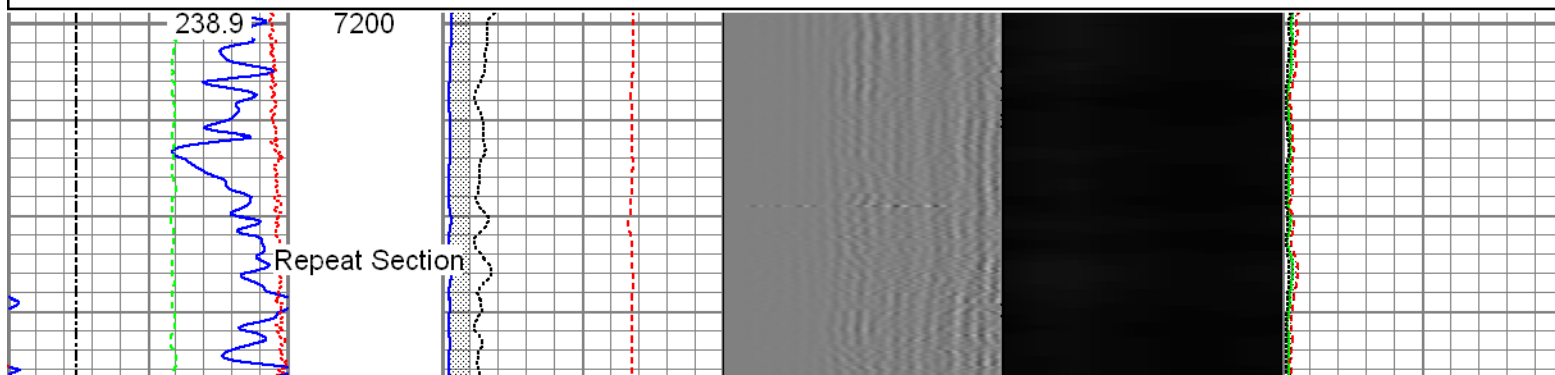
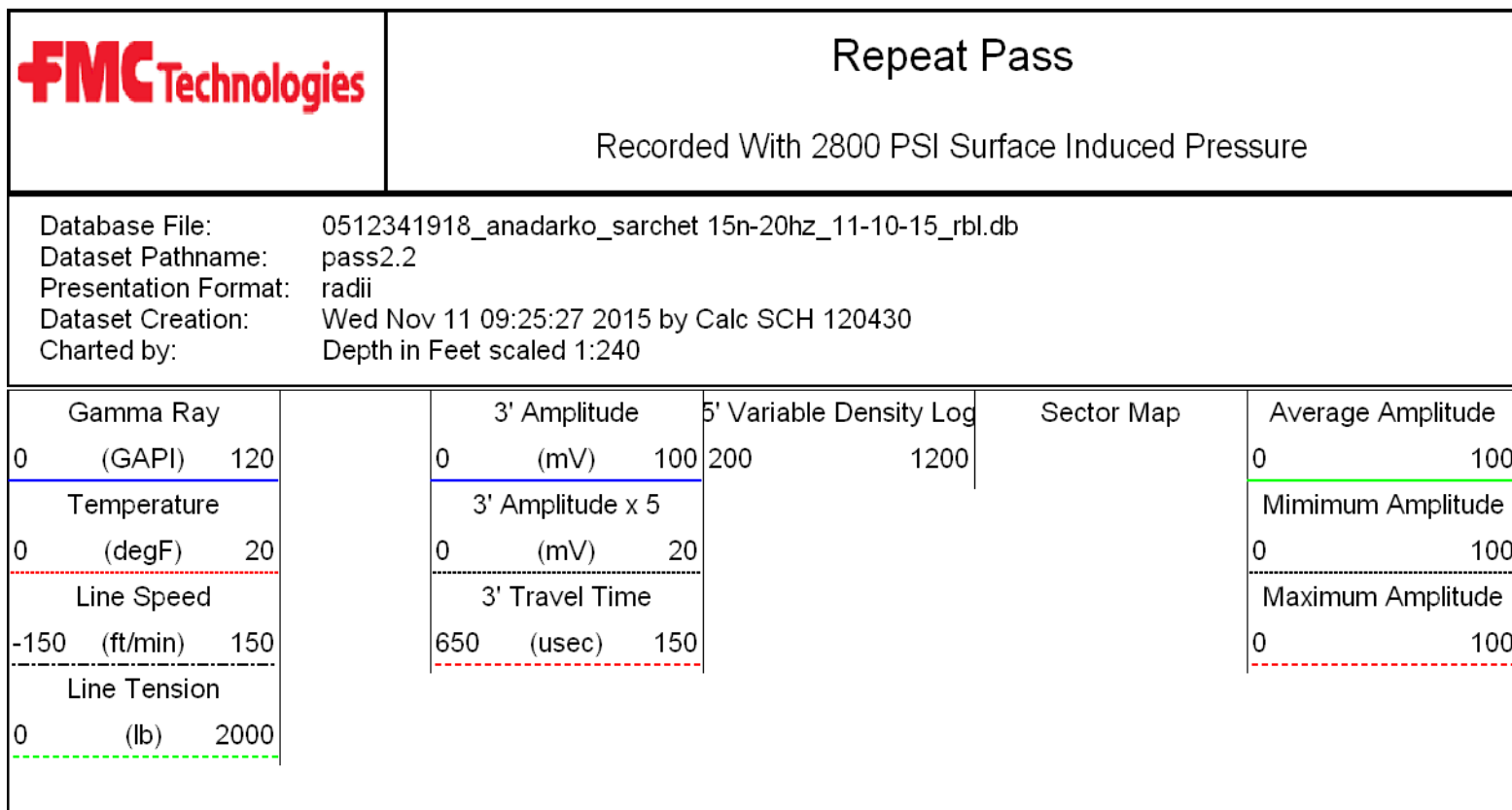
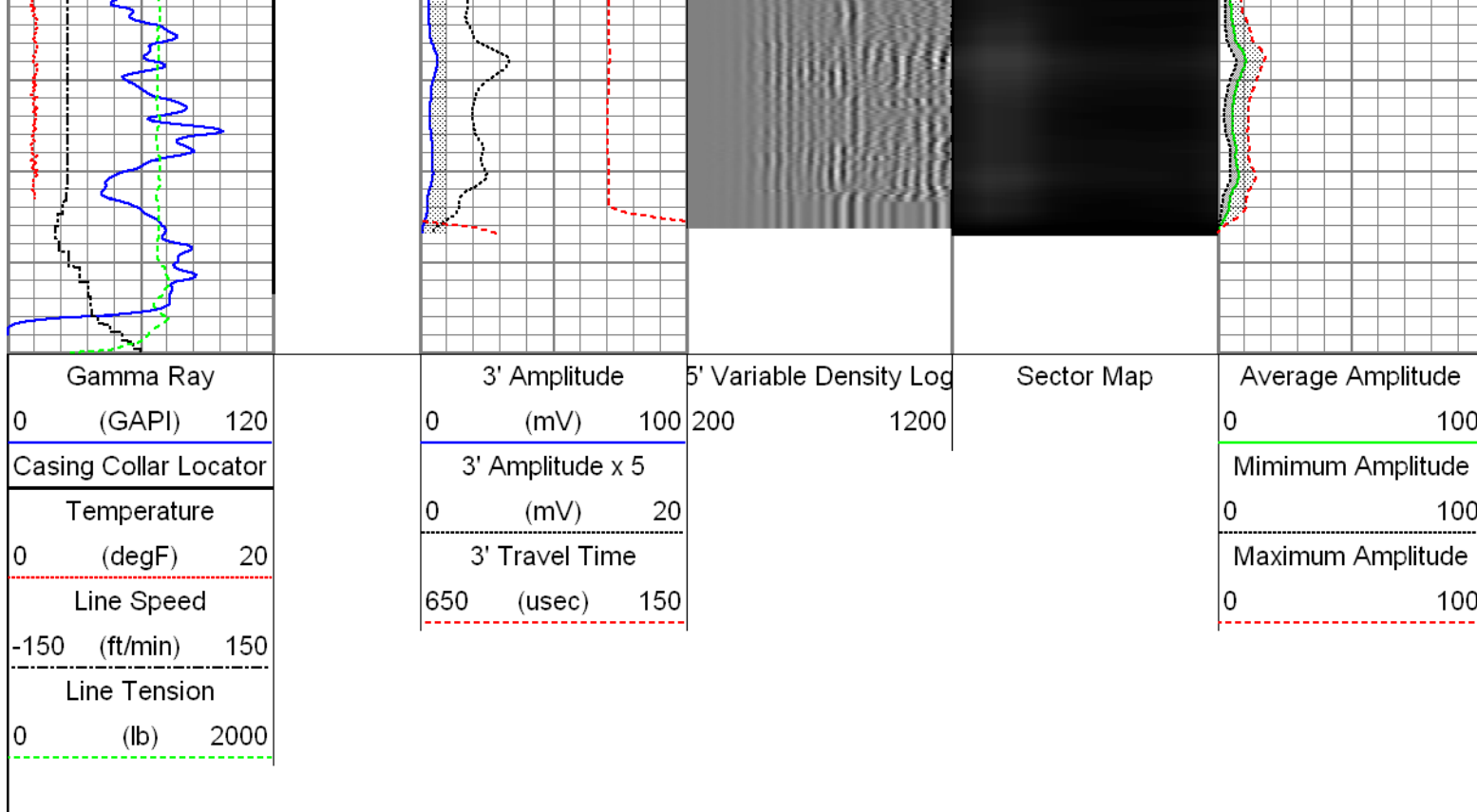


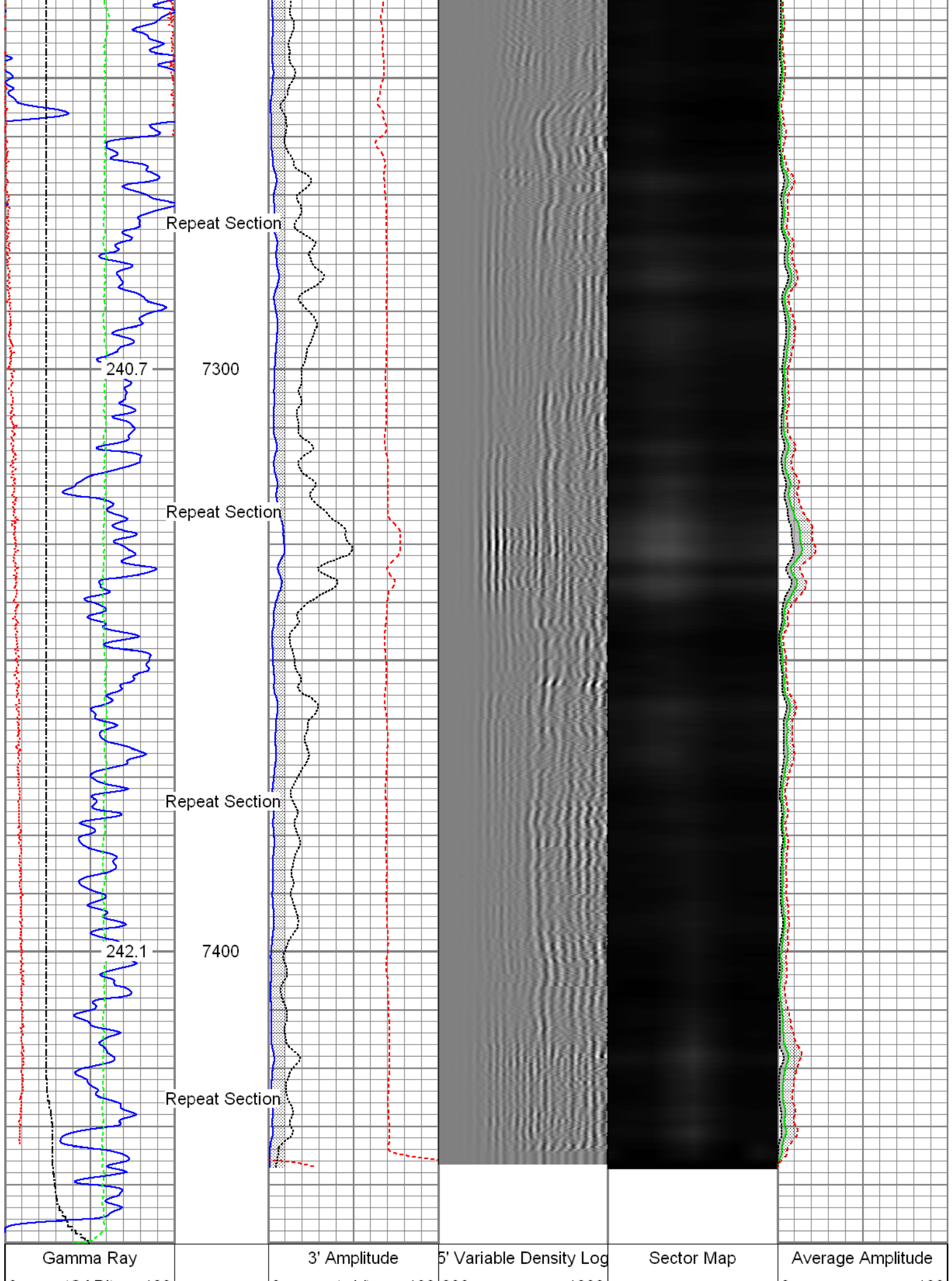




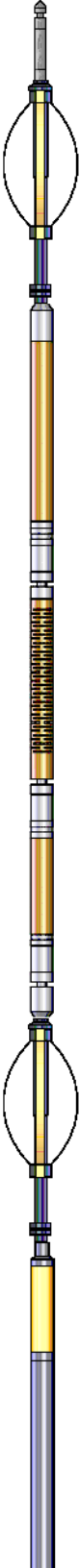
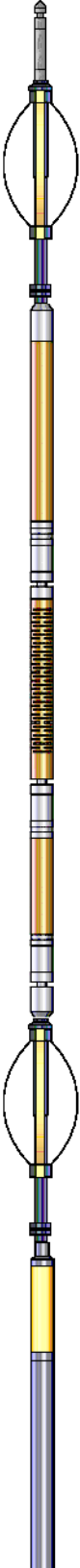
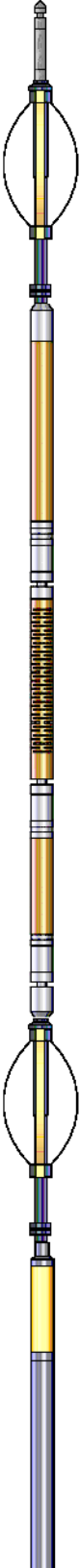
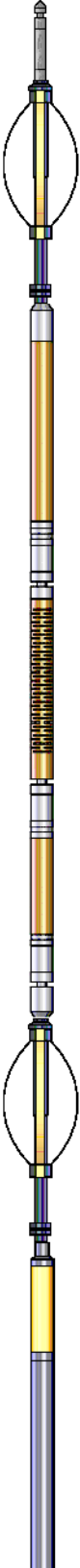


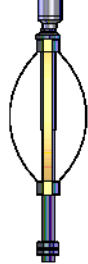






0 (GAPI) 120	0 (mV) 100 200 1200	0 100
Temperature	3' Amplitude x 5	Minimum Amplitude
0 (degF) 20	0 (mV) 20	0 100
Line Speed	3' Travel Time	Maximum Amplitude
-150 (ft/min) 150	650 (usec) 150	0 100
Line Tension		
0 (lb) 2000		

Sensor	Offset (ft)	Schematic	Description	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
			Probe_RADII-C-2-3/4" (FW1302-002) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00
WVFS1	14.55		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
WVFS2	14.55					
WVFS3	14.55					
WVFS4	14.55					
WVFS5	14.55					
WVFS6	14.55					
WVFS7	14.55					
WVFS8	14.55					
WVFCAL	14.55					
WVF3FT	14.55					
DCCL	6.51		Probe_CCL_GR-2.75"Digital (FW1211-026) Probe 2-3/4" Digital CCL / Gamma Ray Combined	4.54	2.75	55.00
CCL	6.51					
GR	3.77					



Probe_IL_BS_Cent

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

2.88

2.75

10.00

Dataset: 0512341918_anadarko_sarchet 15n-20hz_11-10-15_rbl.db: field/well/run1/pass4.2
Total Length: 23.40 ft
Total Weight: 194.00 lb
O.D. 2.75 in

Calibration Report

Database File: 0512341918_anadarko_sarchet 15n-20hz_11-10-15_rbl.db
Dataset Pathname: pass4.2
Dataset Creation: Wed Nov 11 09:06:16 2015 by Calc SCH 120430

Gamma Ray Calibration Report

Serial Number: FW1211-026
Tool Model: 2.75" Digital
Performed: Tue Nov 10 08:58:49 2015

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

Calibration Casing Diameter: 5.500 in
Calibration Depth: 57.713 ft

Master Calibration, performed Wed Nov 11 09:06:09 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.550	1.000	71.921	129.154	0.939
CAL	0.685	0.784				
5'	0.000	0.488	1.000	71.921	145.224	0.989
SUM						
S1	0.000	0.536	0.000	100.000	186.580	-0.012
S2	0.001	0.510	0.000	100.000	196.729	-0.283
S3	0.001	0.502	0.000	100.000	199.378	-0.128
S4	0.000	0.522	0.000	100.000	191.750	-0.032
S5	0.000	0.590	0.000	100.000	169.485	-0.011
S6	0.000	0.657	0.000	100.000	152.279	-0.012
S7	0.000	0.656	0.000	100.000	152.551	-0.036
S8	0.000	0.610	0.000	100.000	164.054	-0.055

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	0.685	0.784	1.000	0.000

Air Zero Calibration, performed Tue Nov 10 09:01:53 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.003	0.000	0.000
5'	0.003	0.000	-0.000
SUM			
S1	-0.002	0.000	0.000
S2	0.003	0.000	0.000
S3	0.003	0.000	-0.000
S4	0.003	0.000	-0.000
S5	0.004	0.000	-0.000
S6	0.003	0.000	-0.000
S7	0.003	0.000	-0.000
S8	0.003	0.000	0.000

	Company	Kerr-McGee Oil and Gas Onshore LP
	Well	Sarchet 15N-20HZ
	Field	Wattenberg
	County	Weld
	State	Colorado