



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	Green 4N -8HZ	Well	Green 4N -8HZ
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:	API #: 05-123-40836		
Permanent Datum	SEC 8	TWP 1N	RGE 65W
Log Measured From	Ground Level	Elevation	4972'
Drilling Measured From	Kelly Bushing	16 FT	
	Kelly Bushing		
		Other Services	Gauge Ring RBP
		Elevation	K.B. 4988' D.F. 4987' G.L. 4972'

Date	28-JUL-2015
Run Number	Three
Depth Driller	13581 FT
Depth Logger	6882 FT
Bottom Logged Interval	6879 FT
Top Log Interval	Surface
Open Hole Size	8.750"
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	216°F
Estimated Cement Top	225 FT
Time Well Ready	ROA
Time Logger on Bottom	10:05
Equipment Number	HD-0343
Location	Fort Lupton, CO
Recorded By	W.Wacker
Witnessed By	DJ Anderson

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 LTC	Surface	1563 FT		
Intermediate #1	5 1/2	17	HC-P110	Surface	13572 FT		
Intermediate #2							
Liner							

<<<< 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

Gauge Ring/Junk Basket ran to 7738 FT with no debris found after run

Set RBP at 6900 FT

Log ran from 6882 FT to surface

Recorded with 2800 PSI surface induced pressure

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

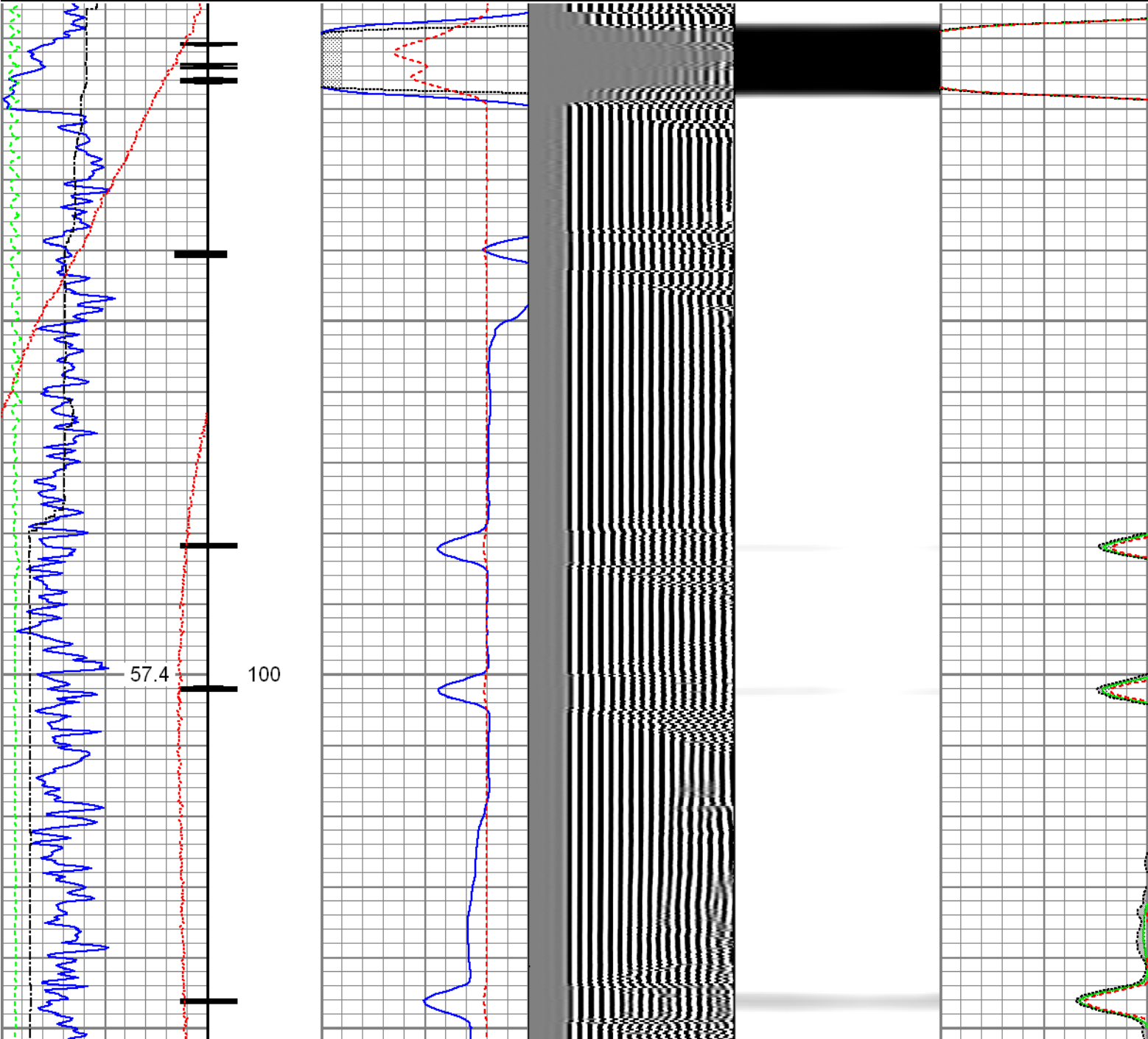


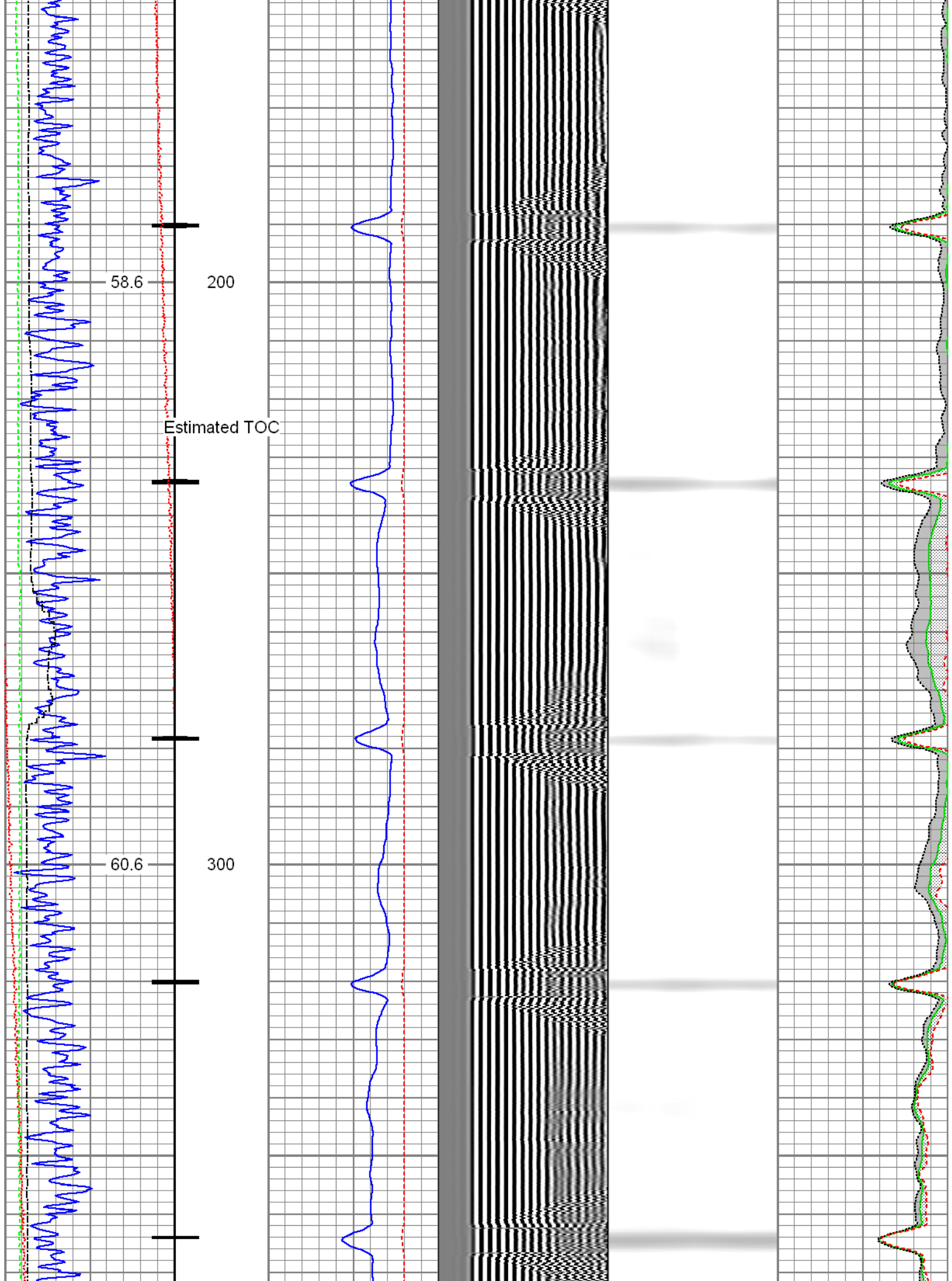
Main Pass

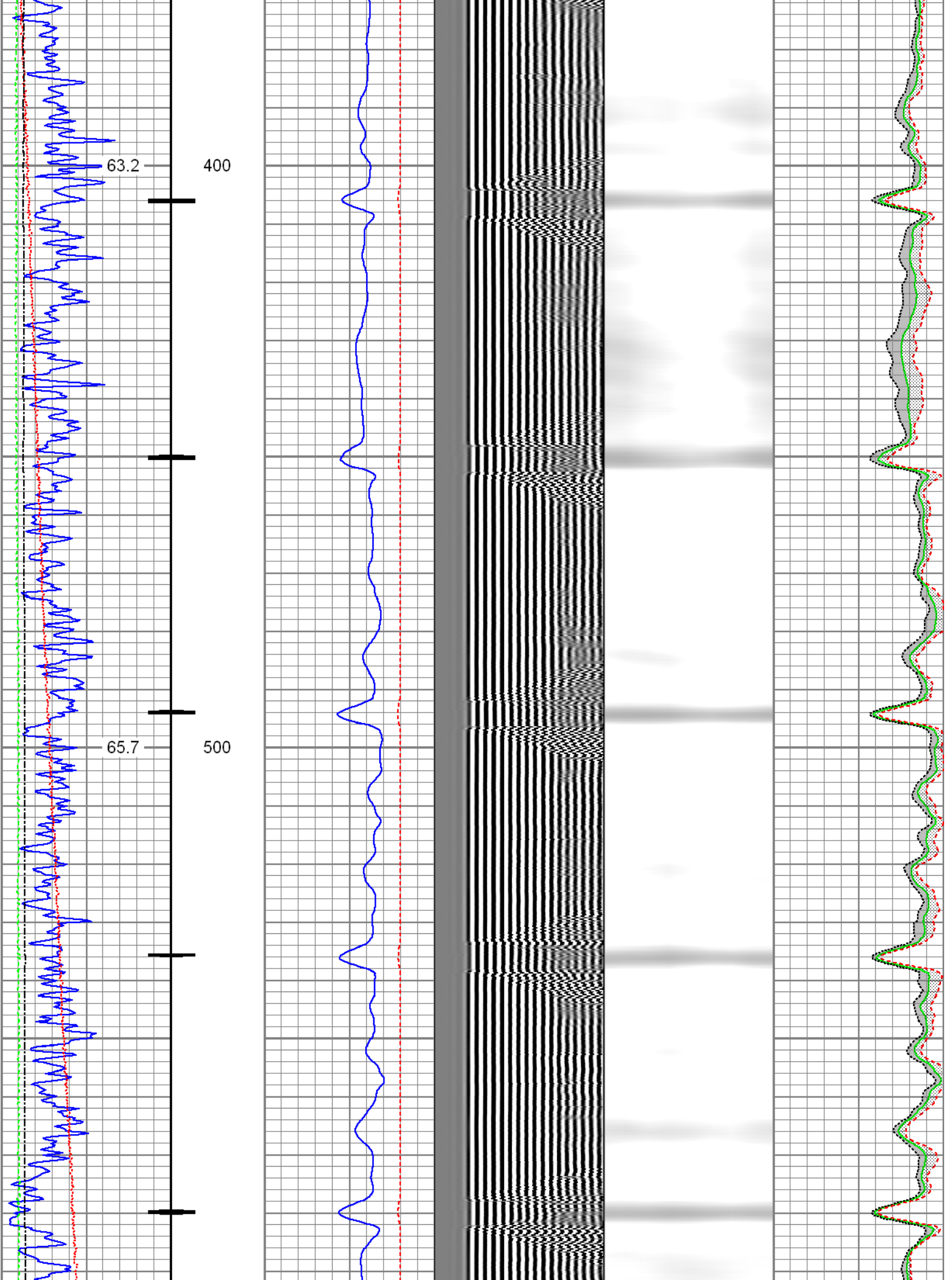
Recorded with 2800 PSI Surface Induced Pressure

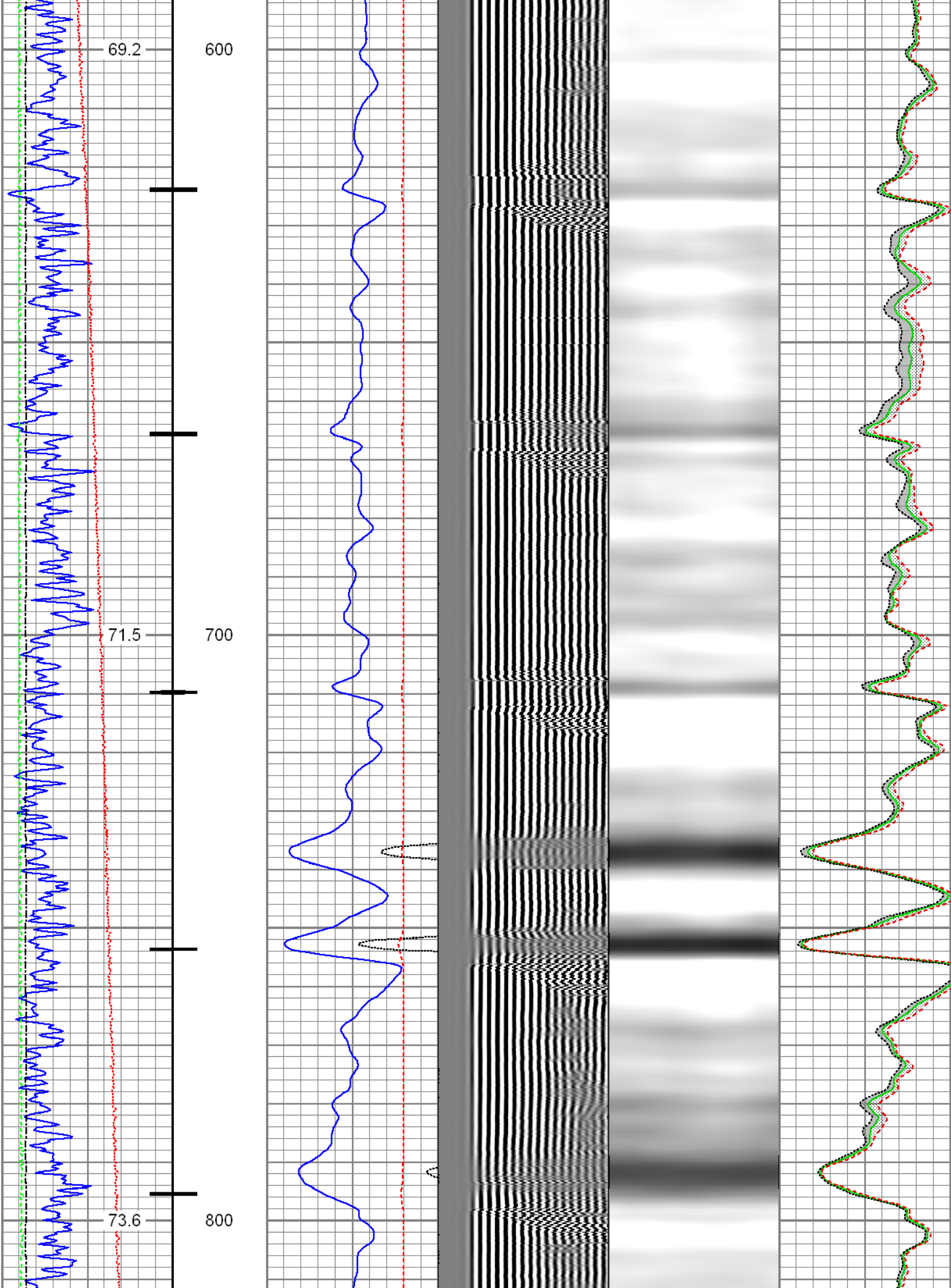
Database File: 0512340836_anadarko_green 4n-8hz_07-28-15_rbl.db
Dataset Pathname: mp
Presentation Format: radii
Dataset Creation: Thu Jul 30 11:42:31 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

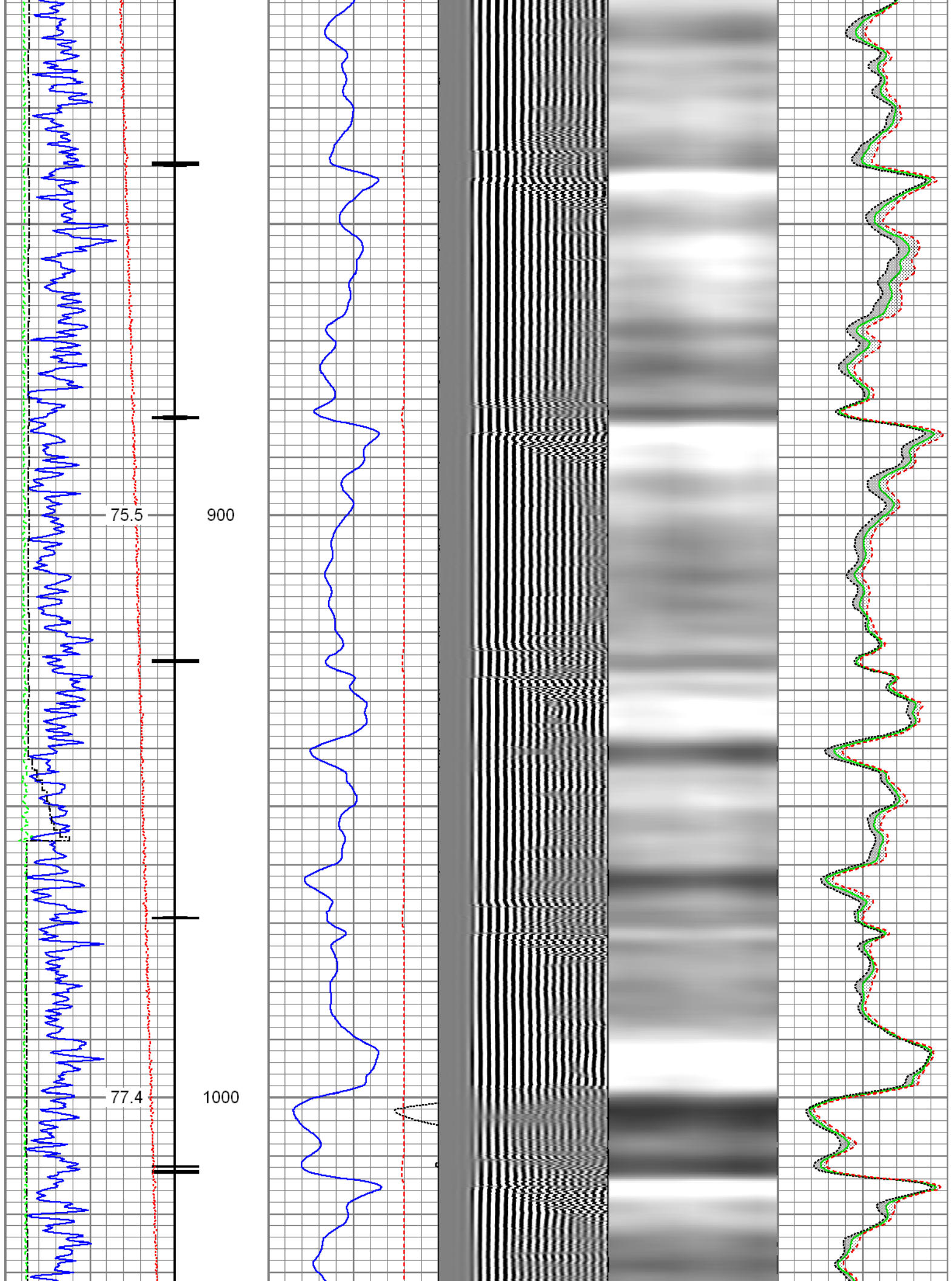
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
Temperature	0 (mV) 20			0 100
0 (degF) 20	3' Travel Time			Maximum Amplitude
Line Speed	650 (usec) 150			0 100
-150 (ft/min) 150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

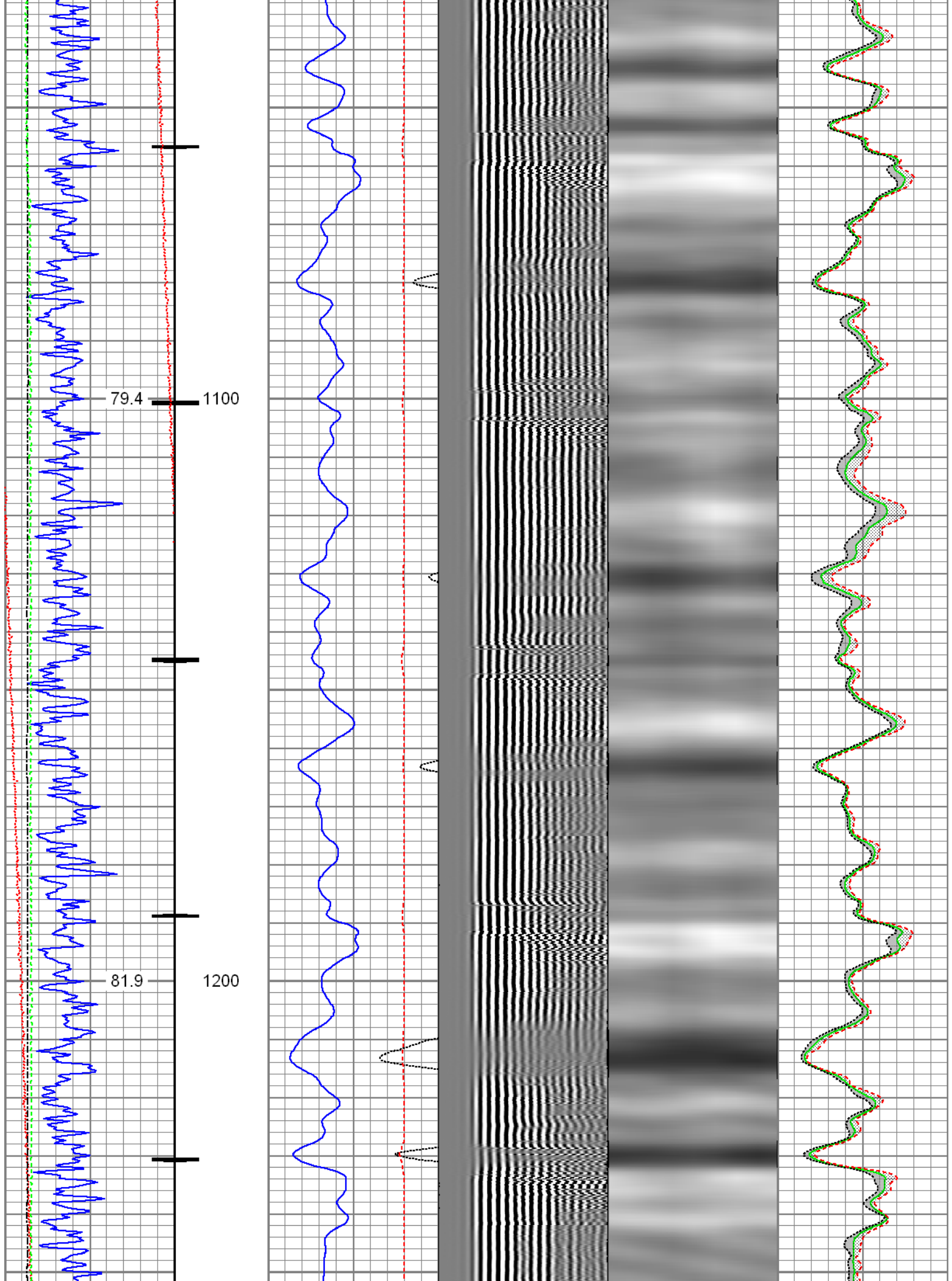


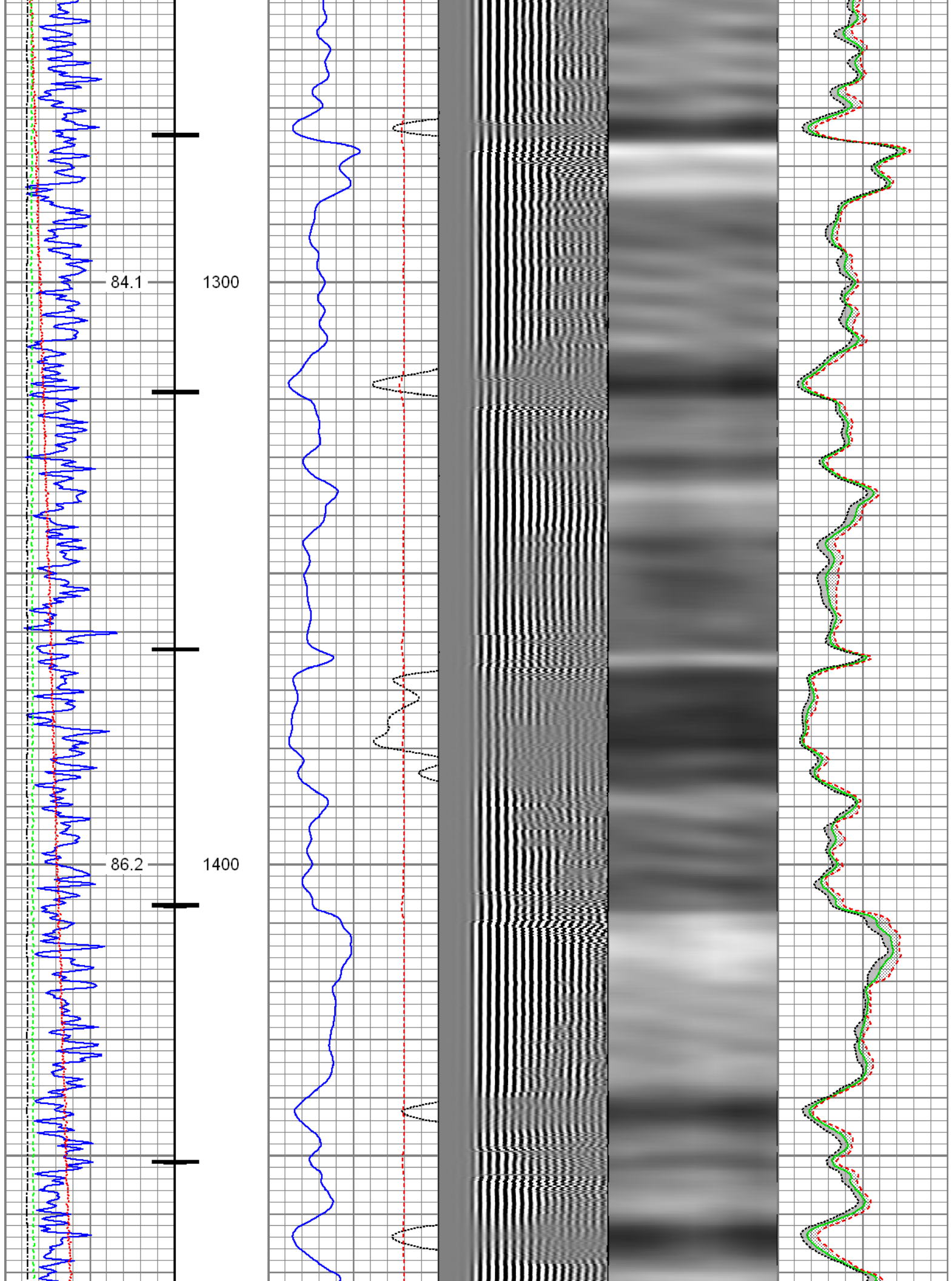


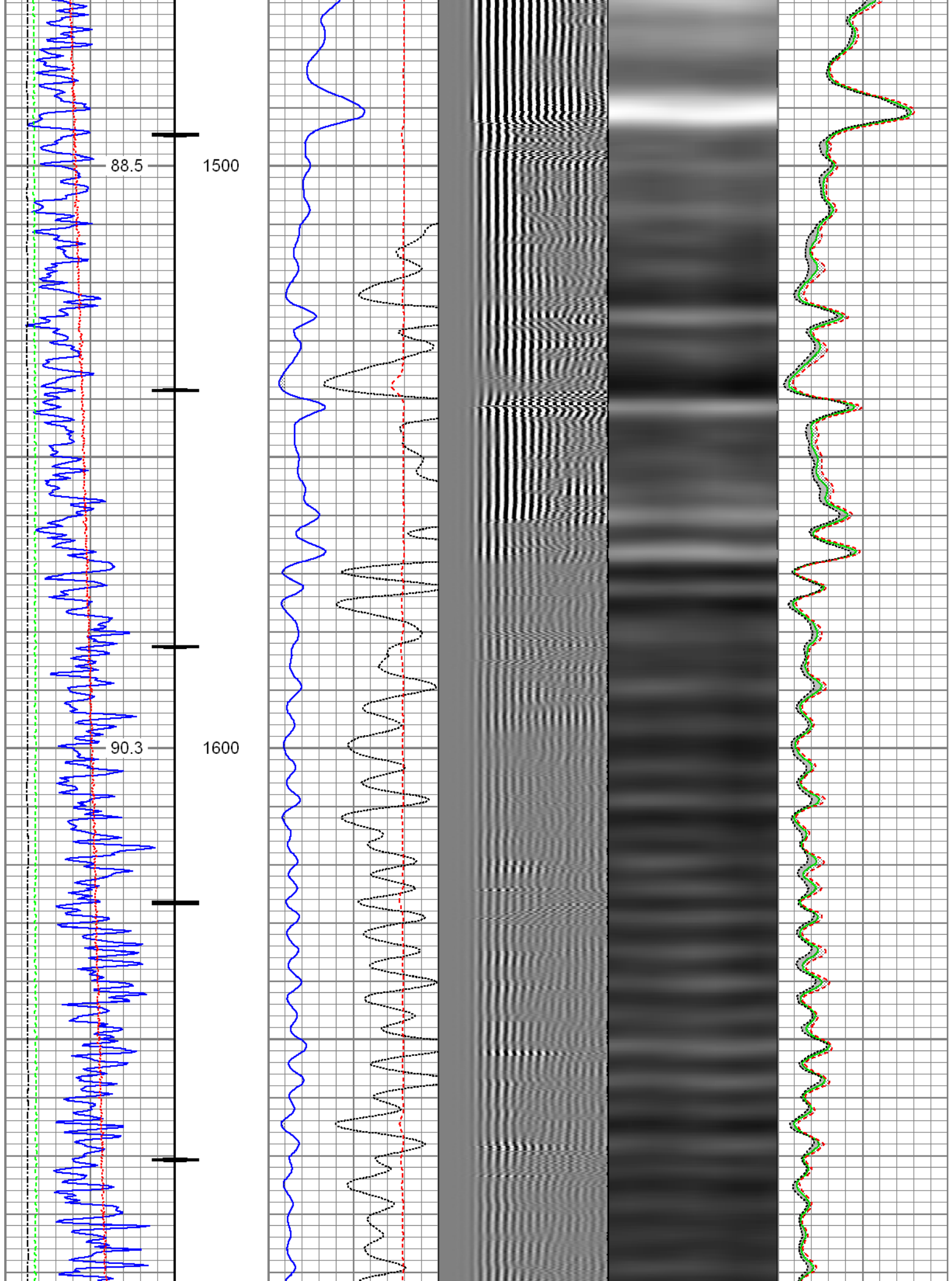


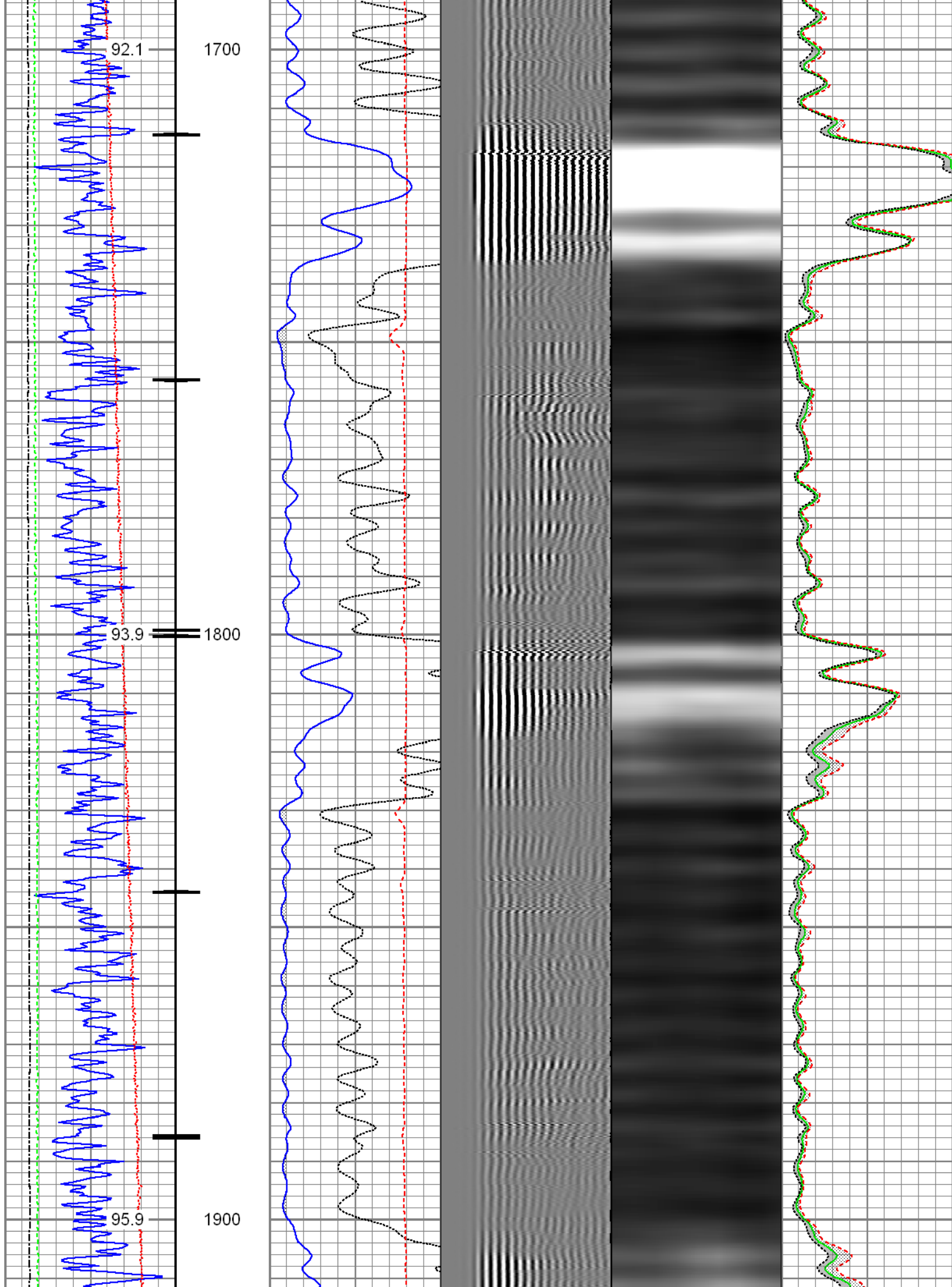


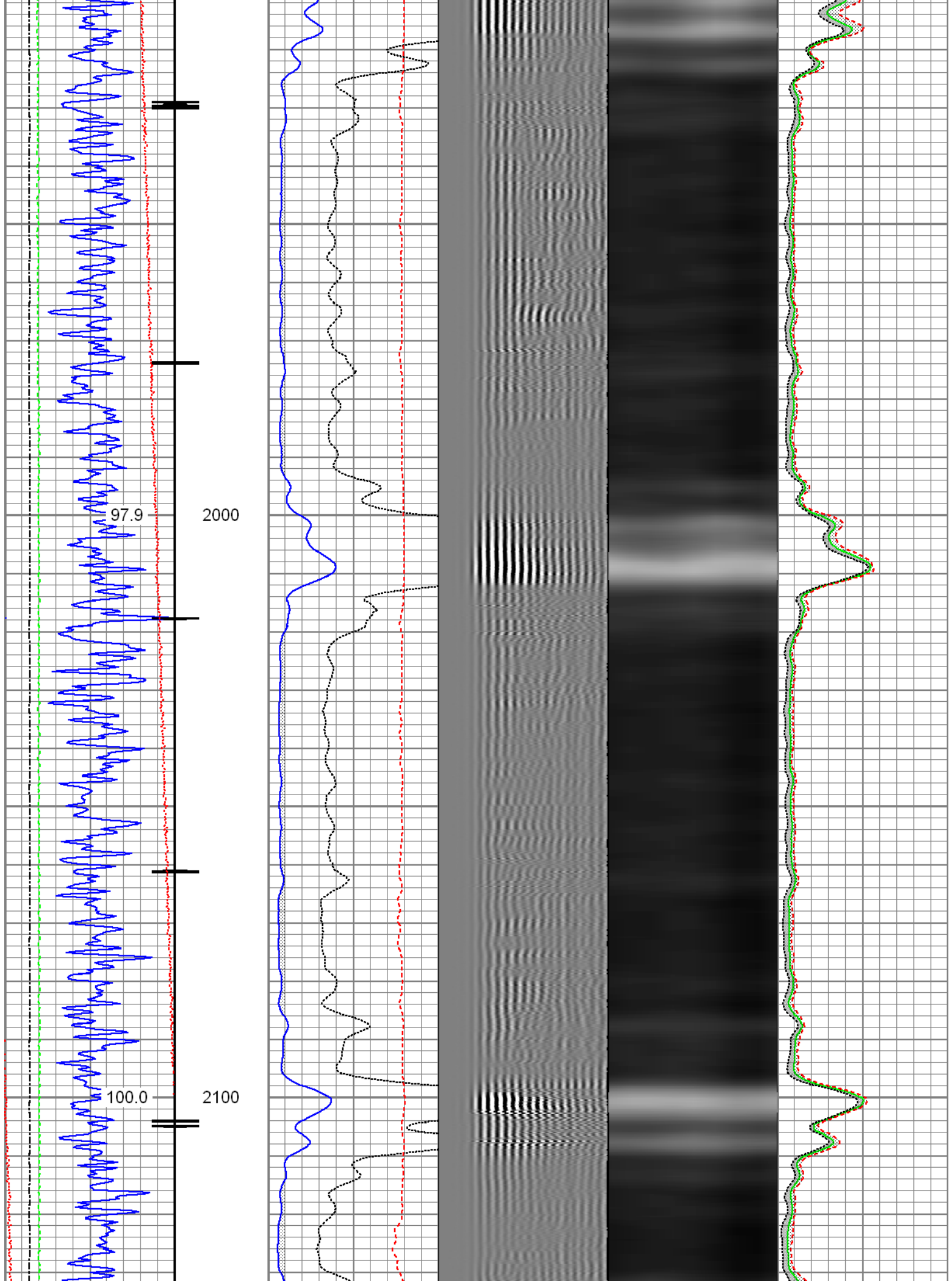


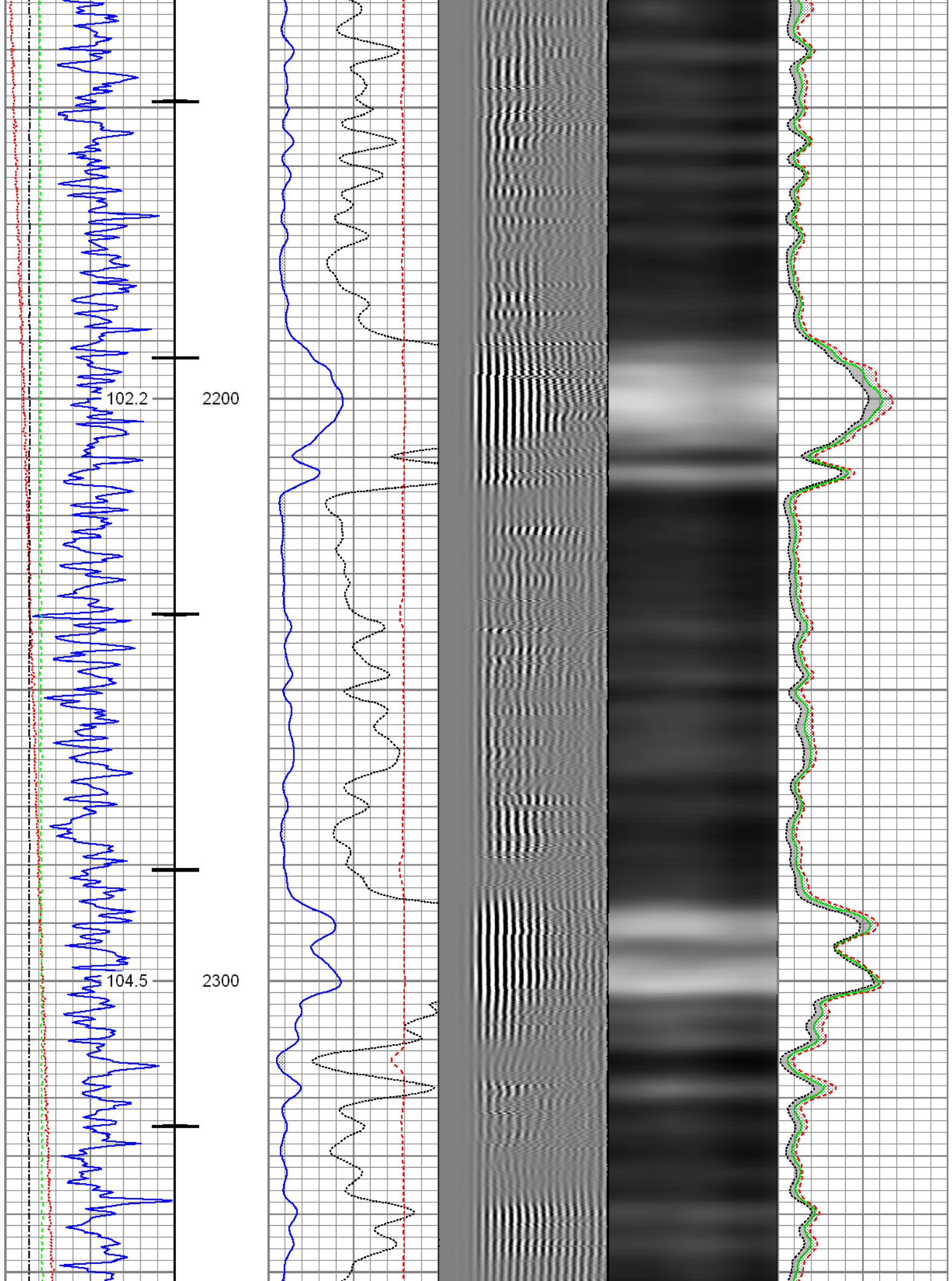


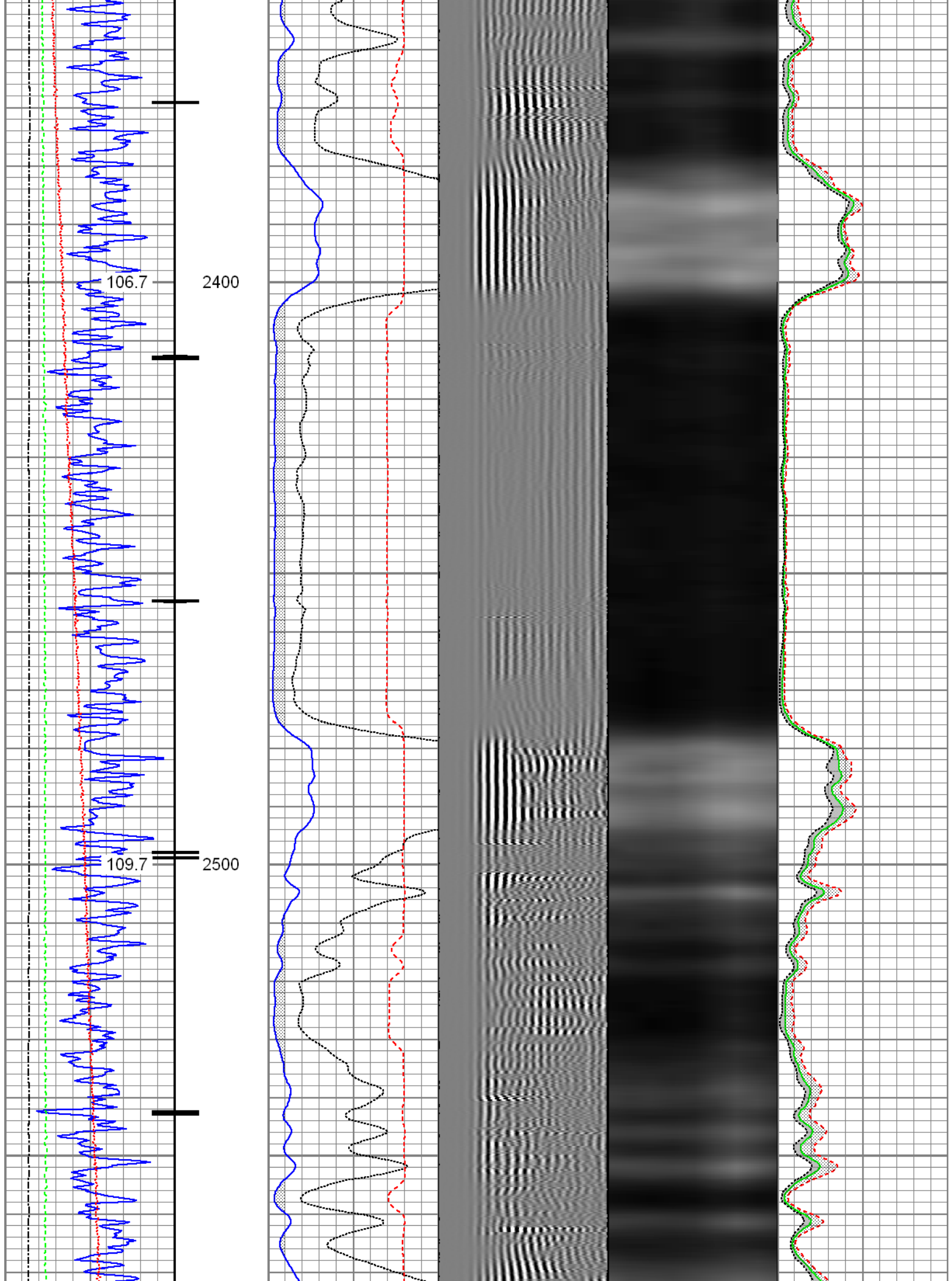


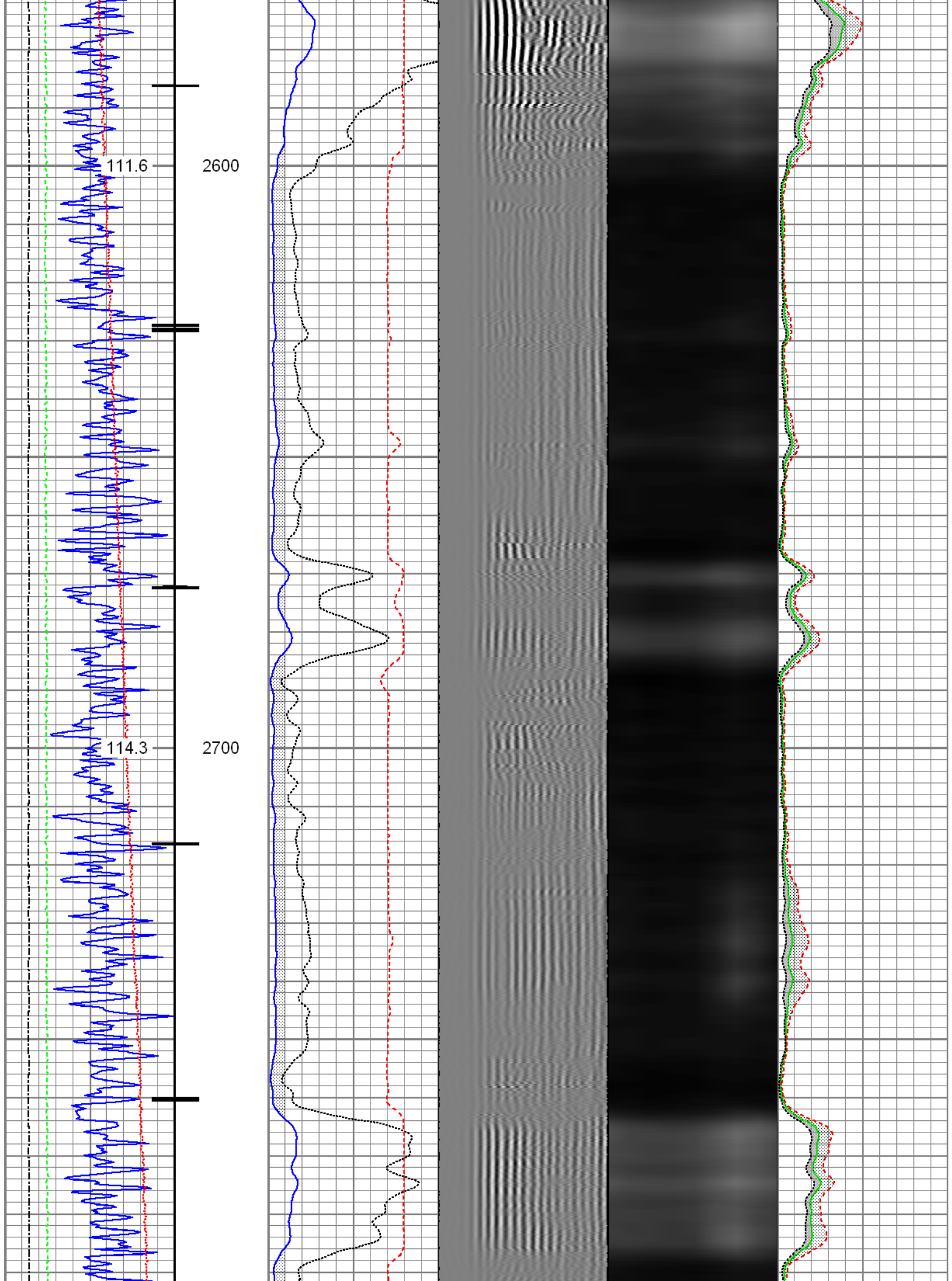


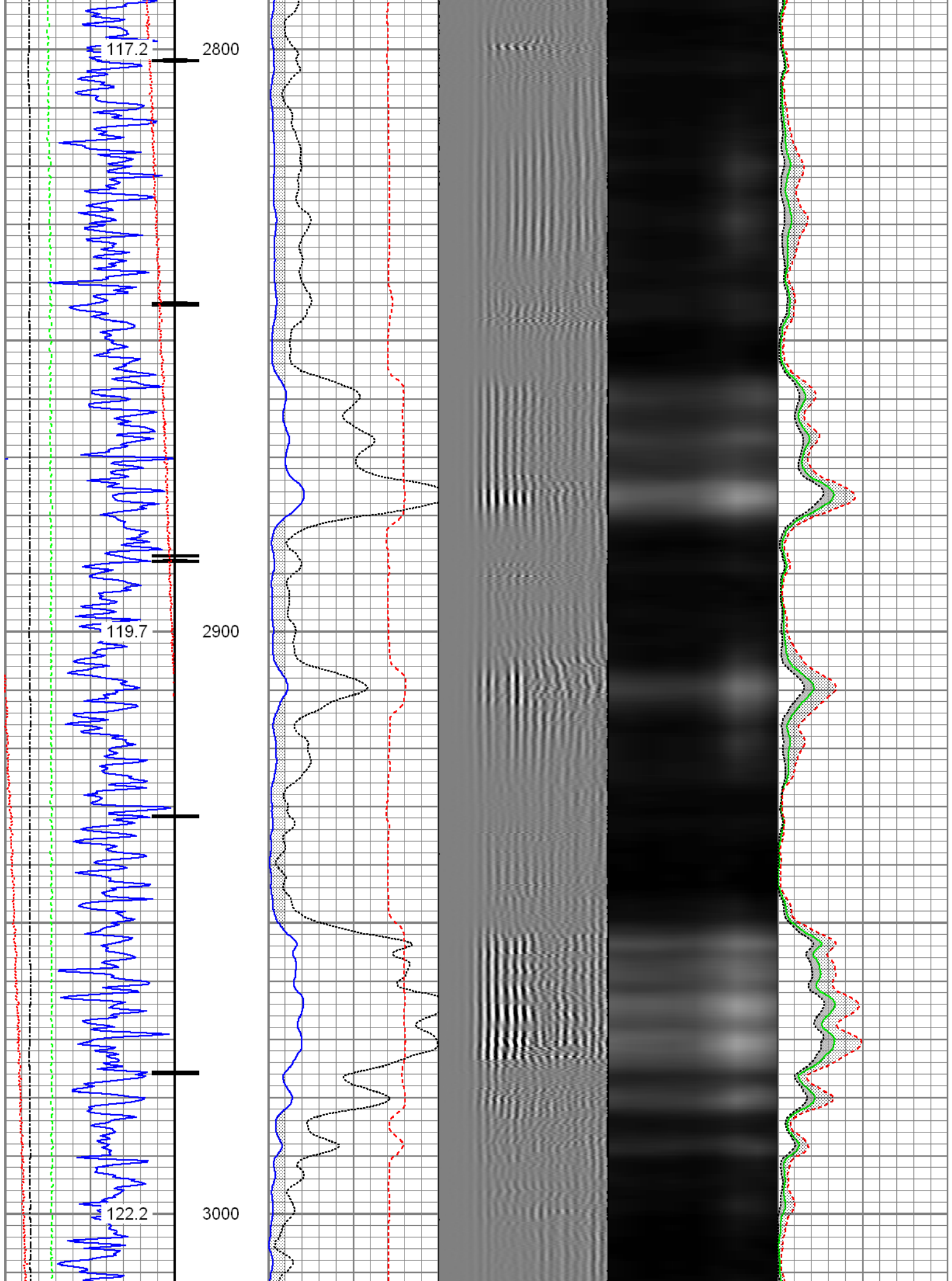


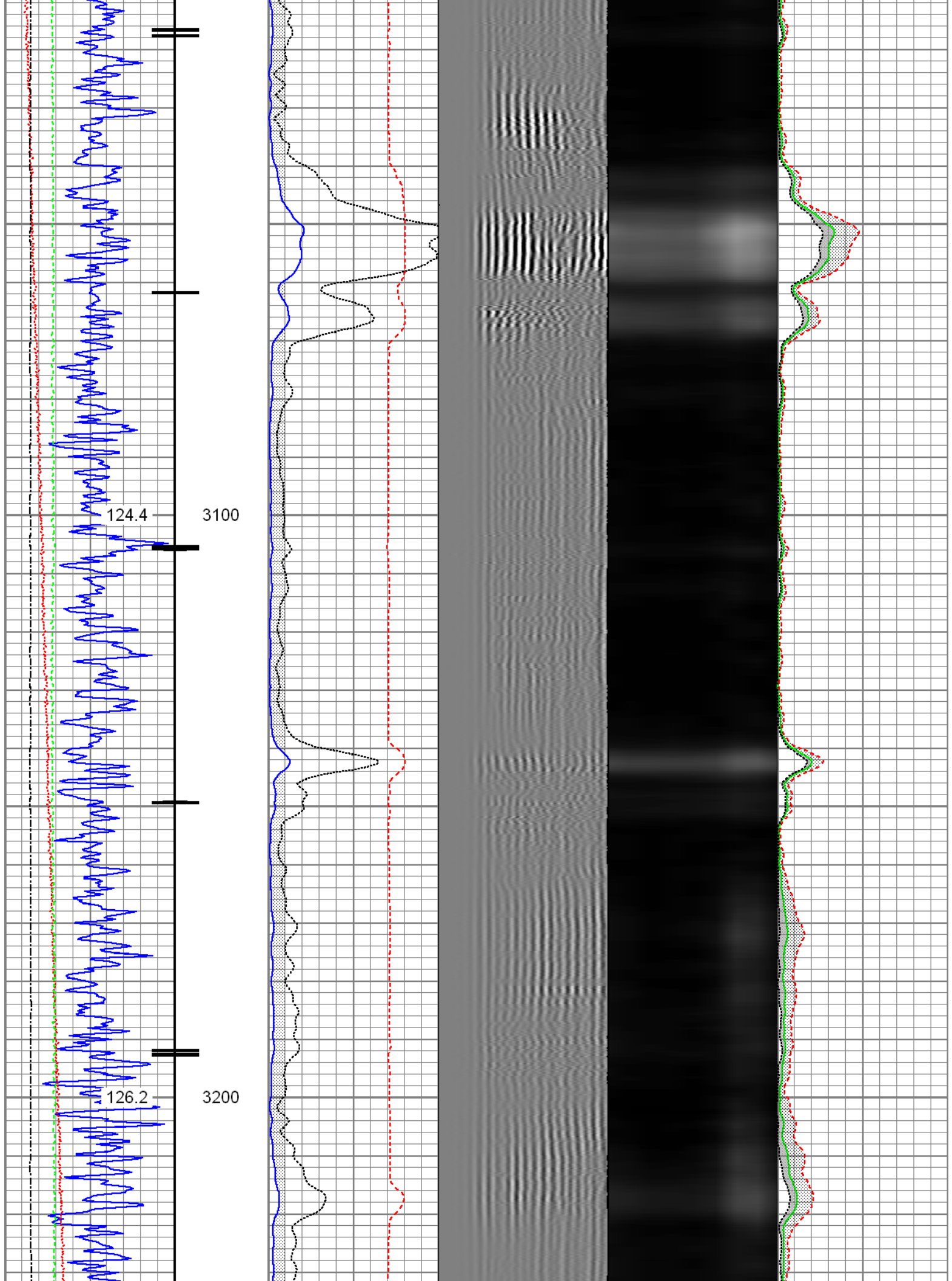


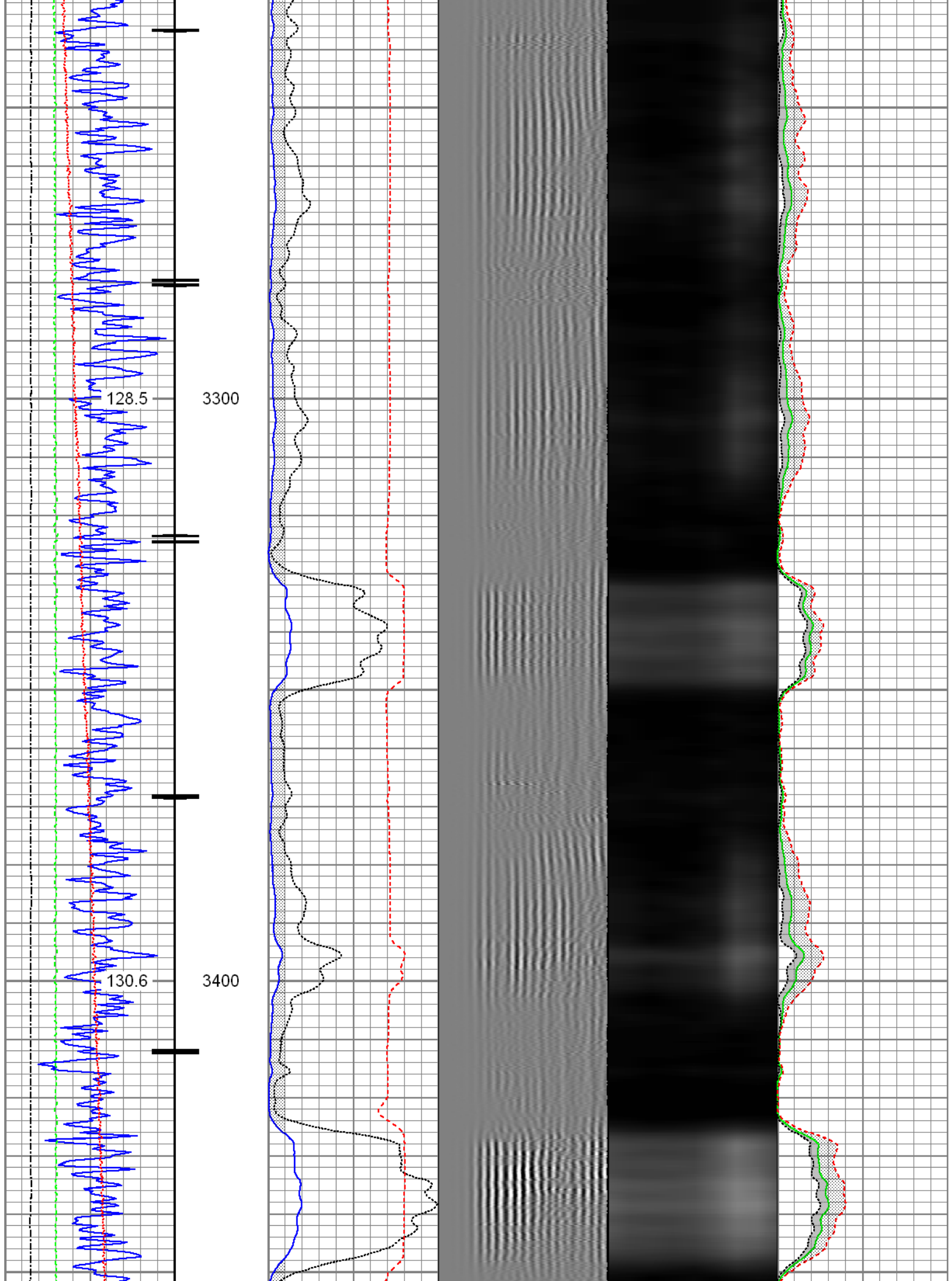


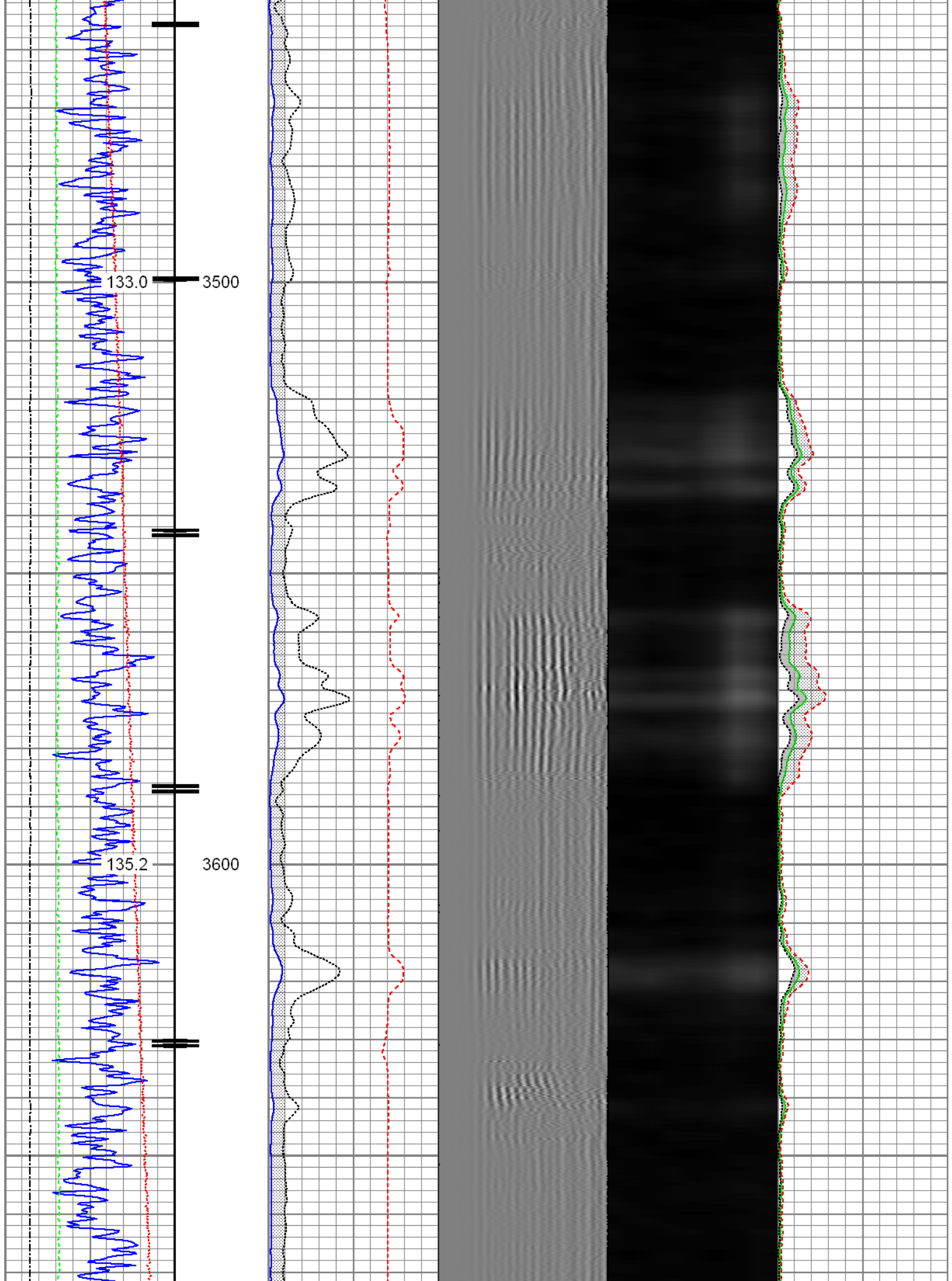


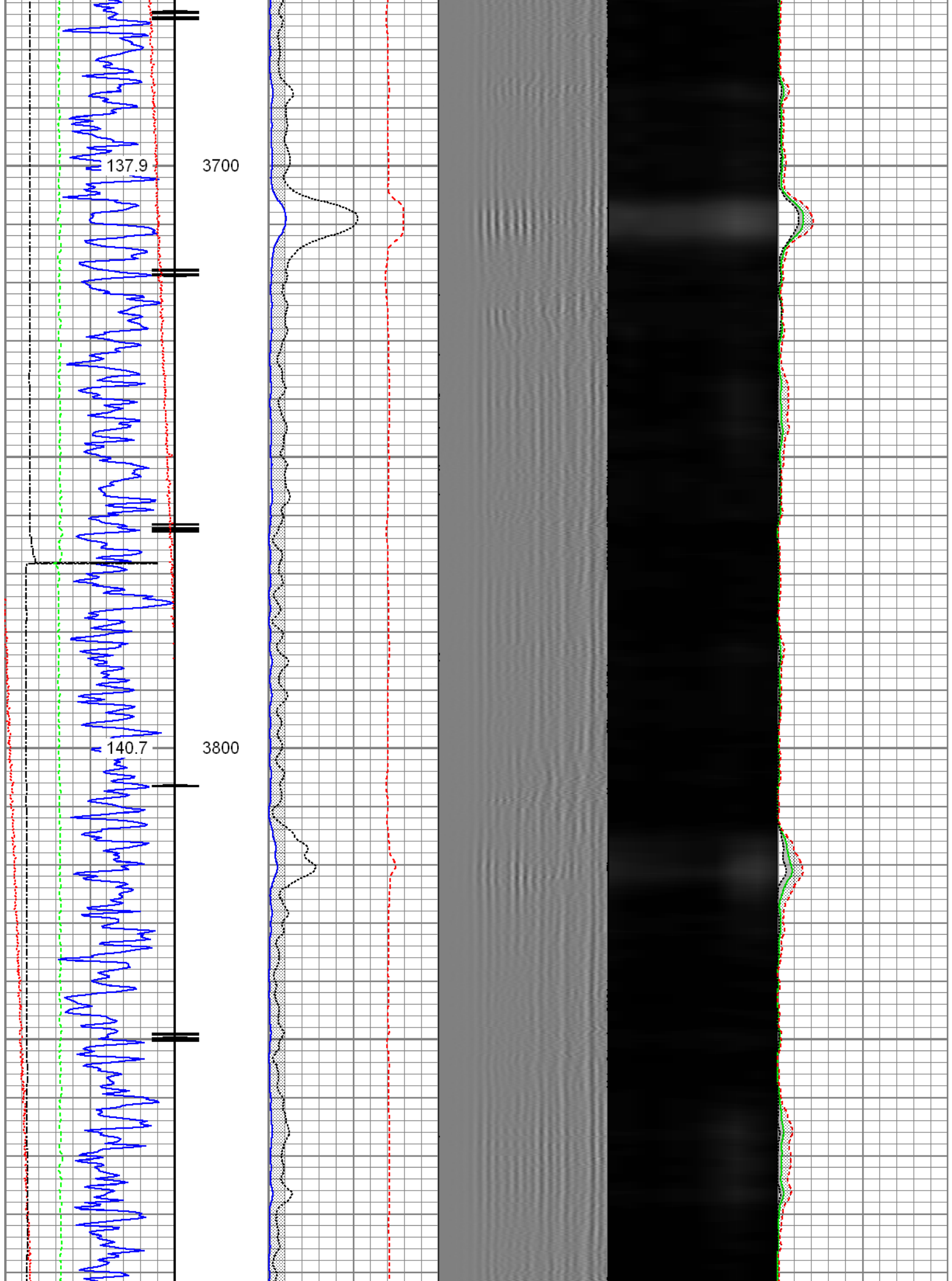


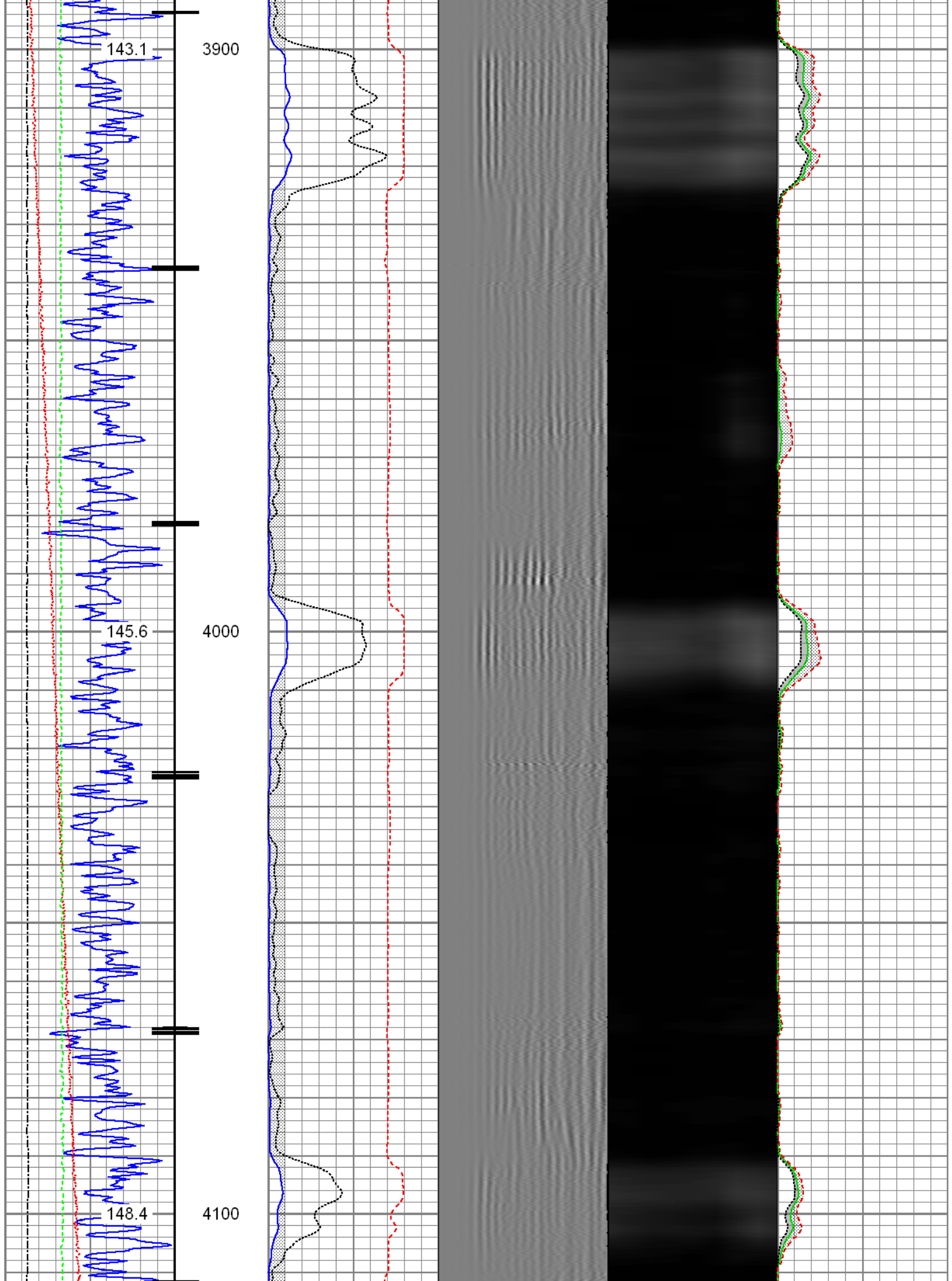


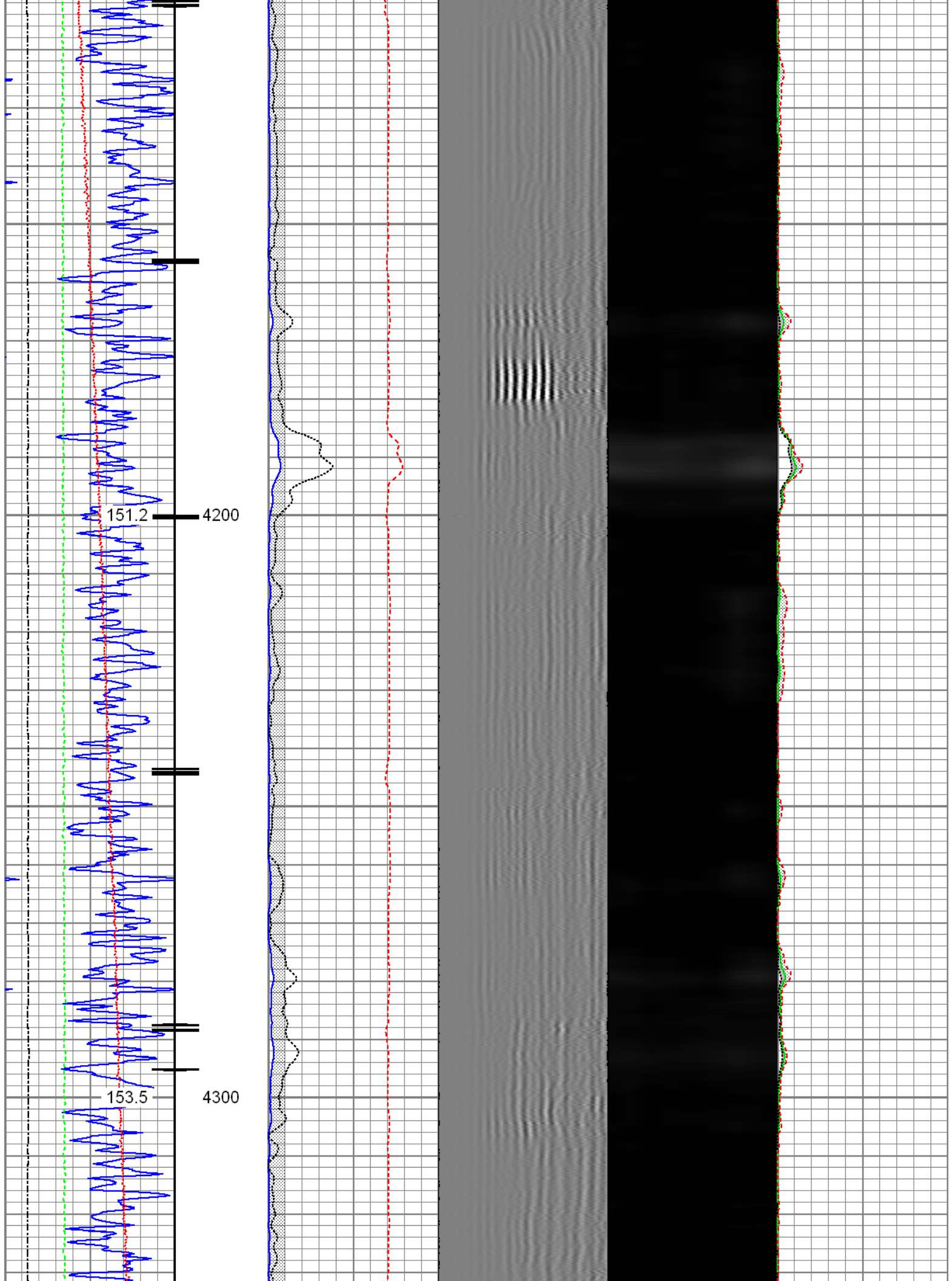


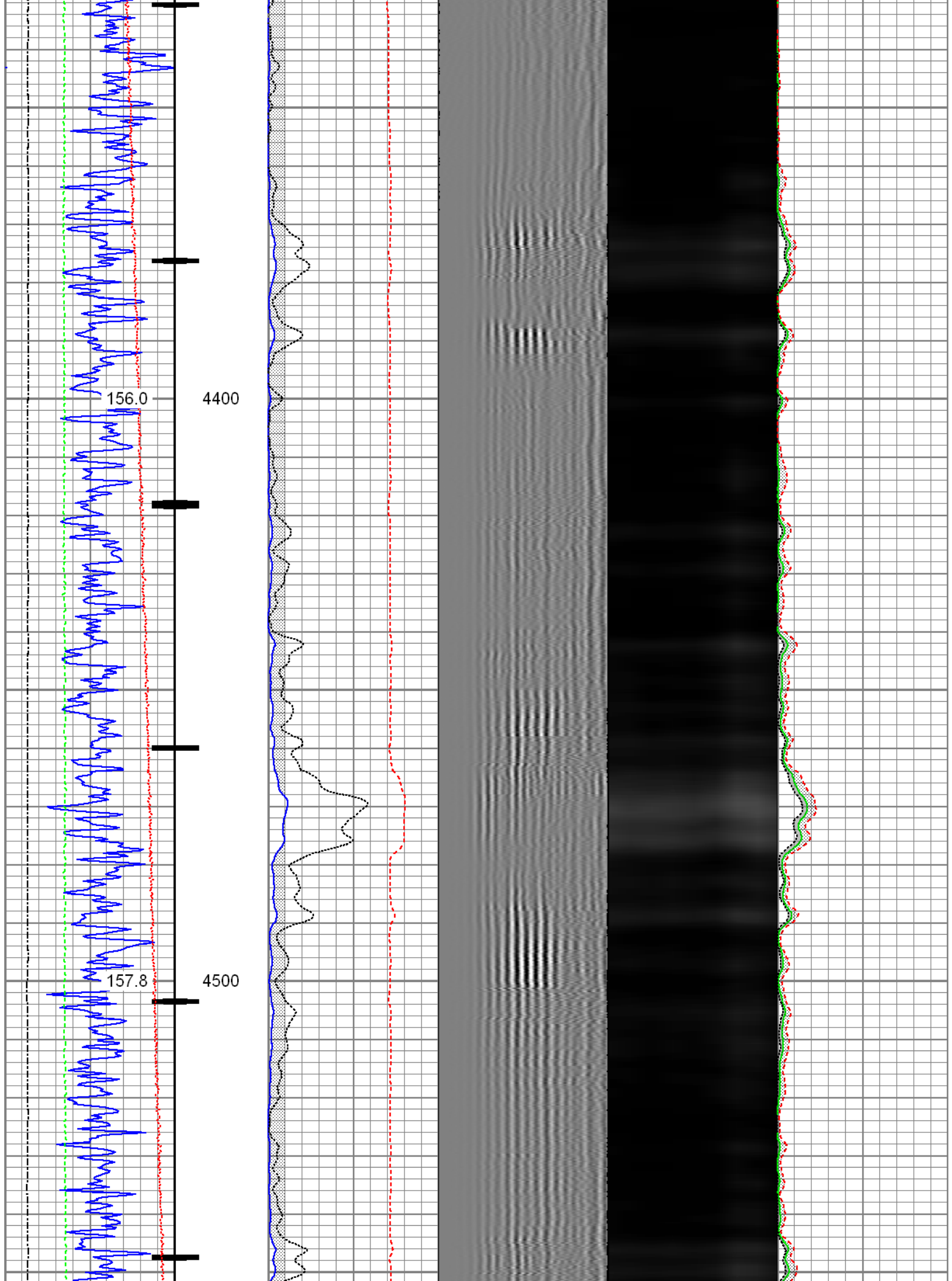


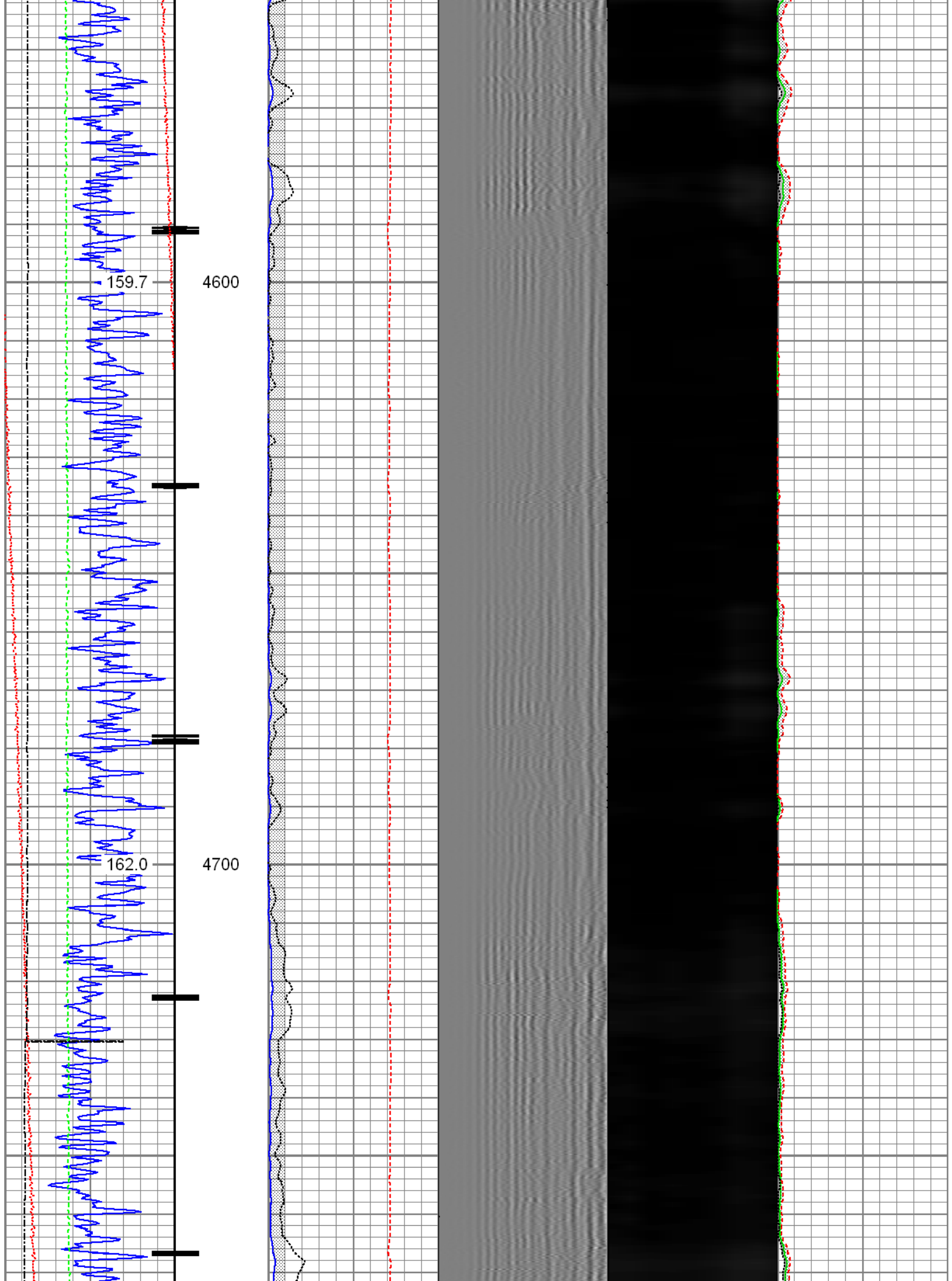


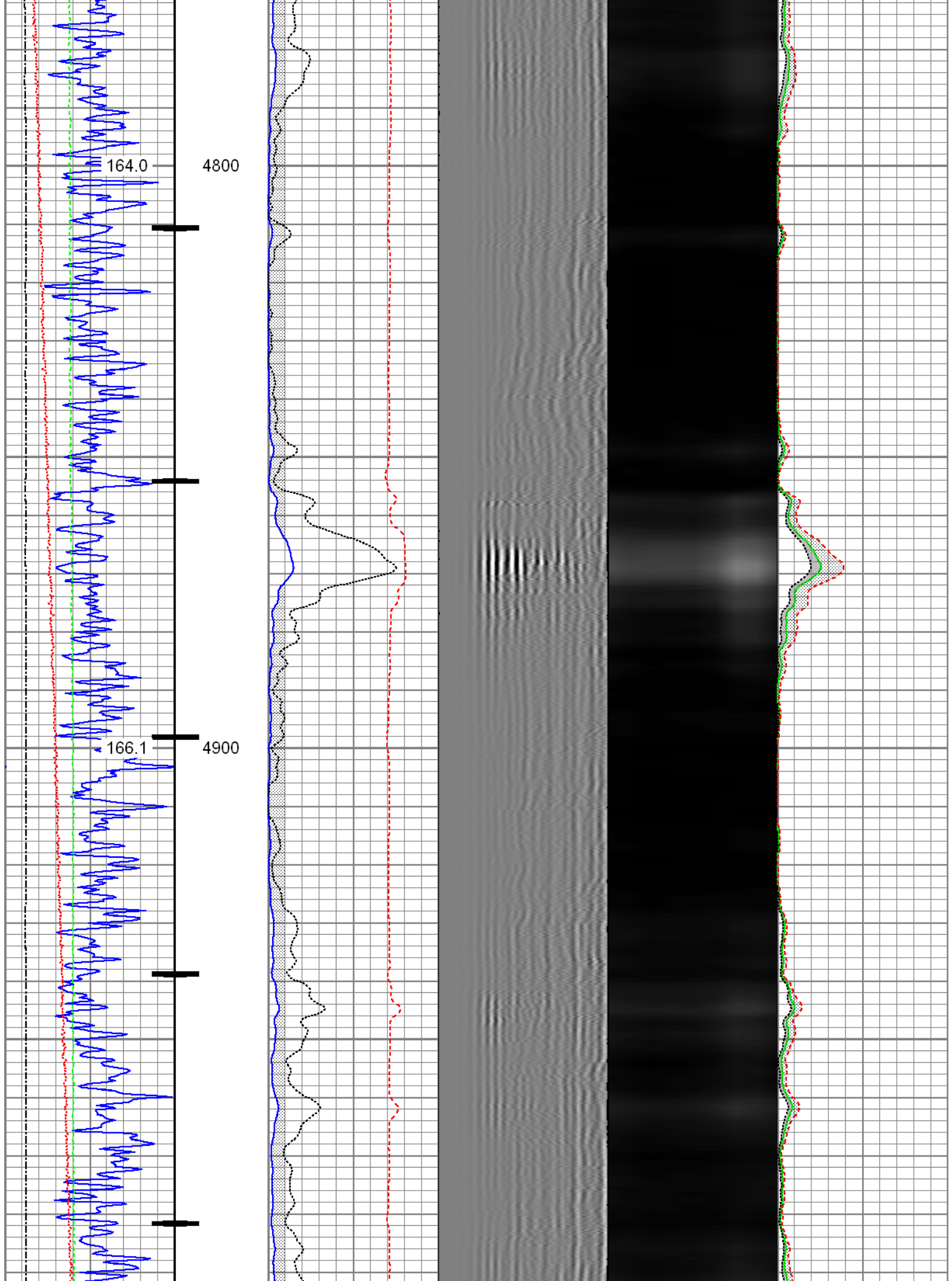


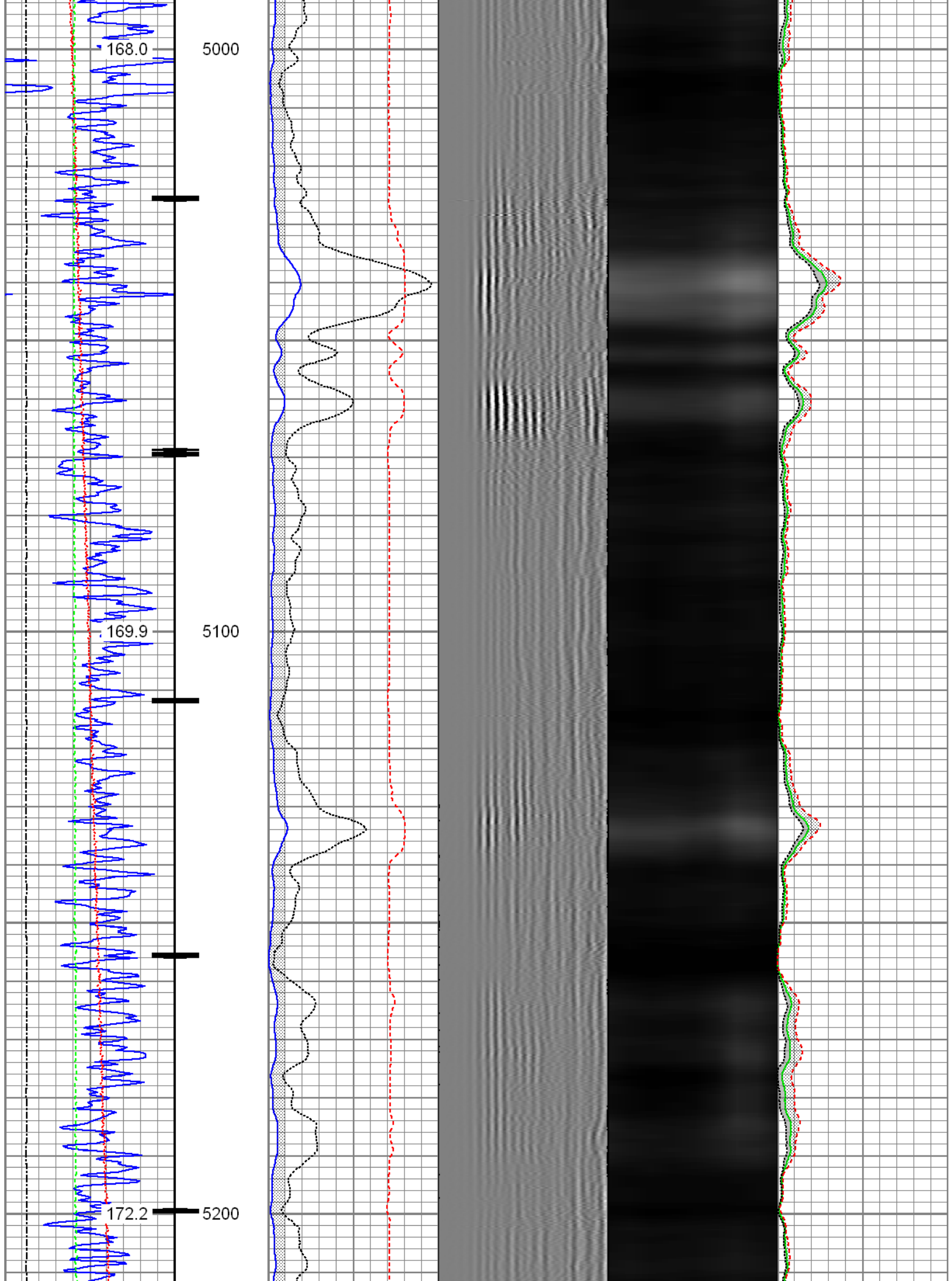


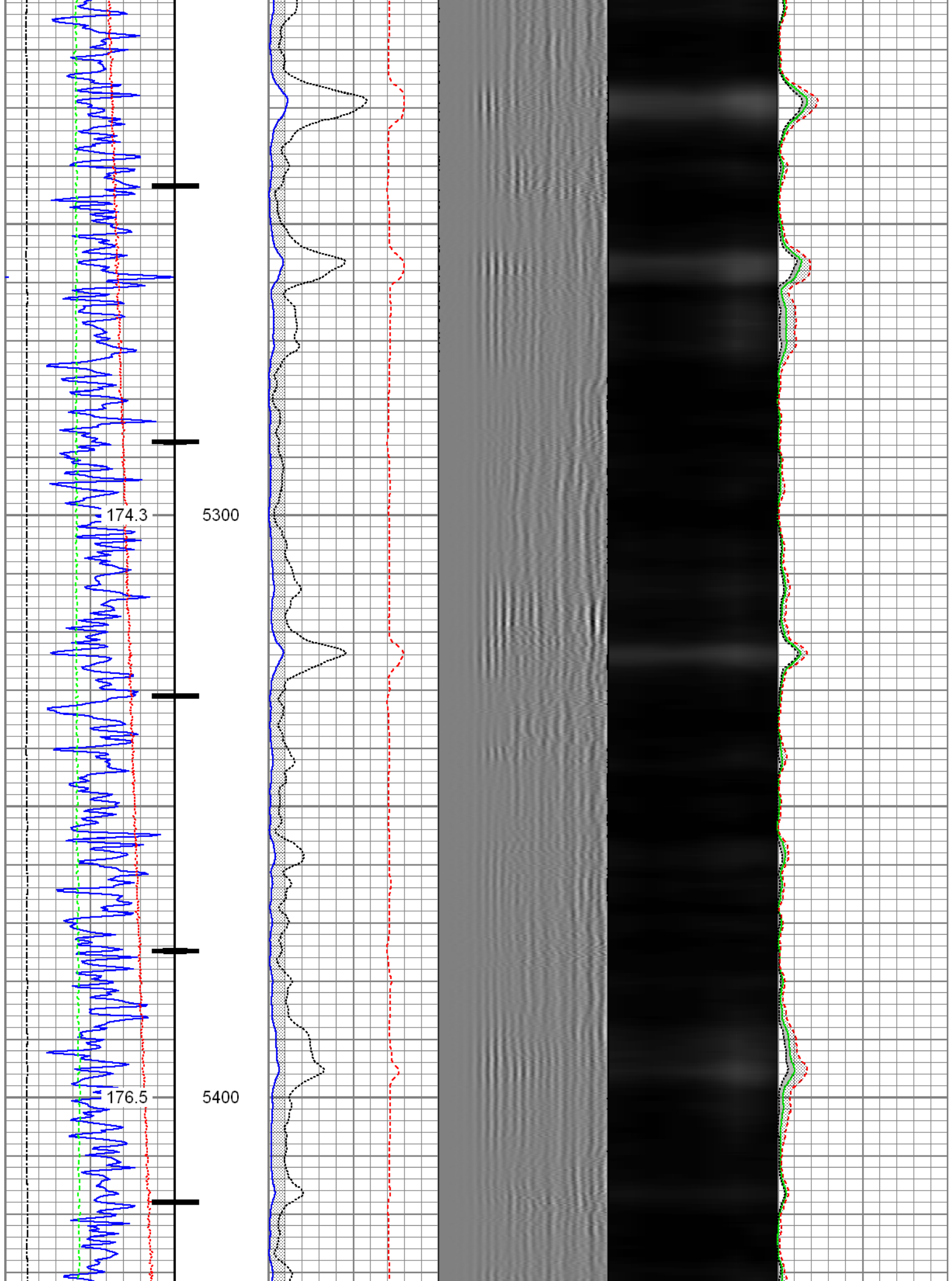


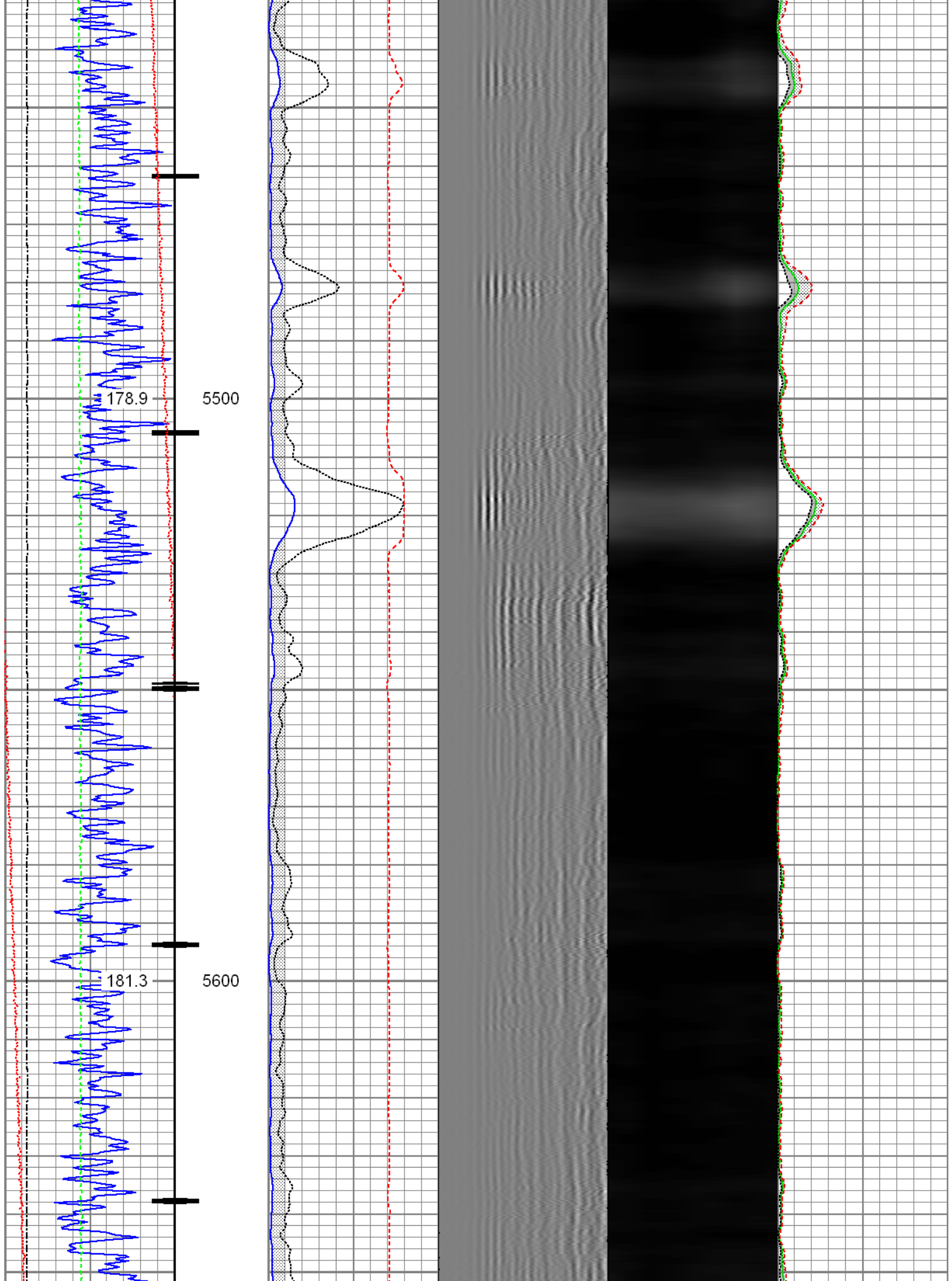


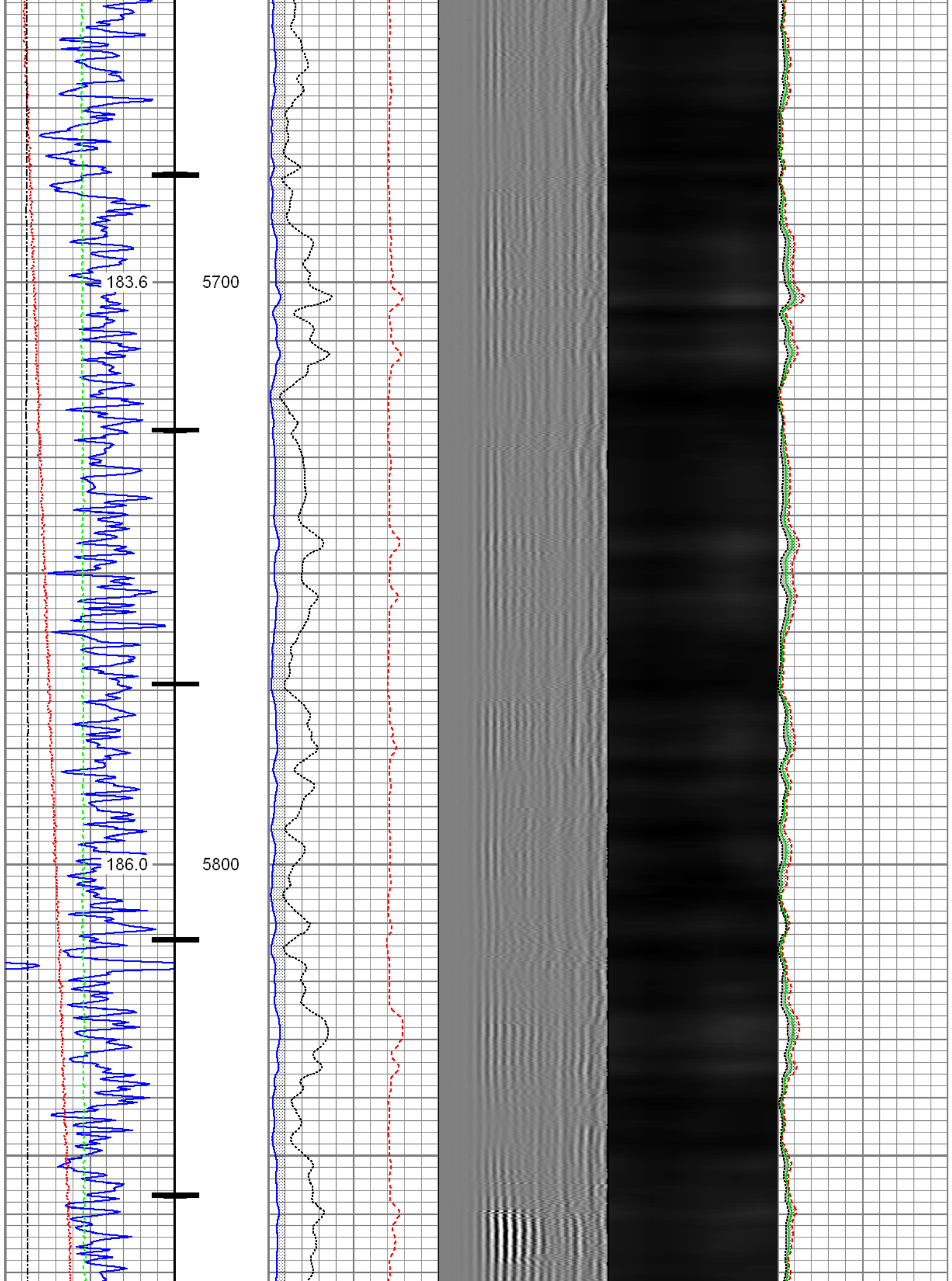


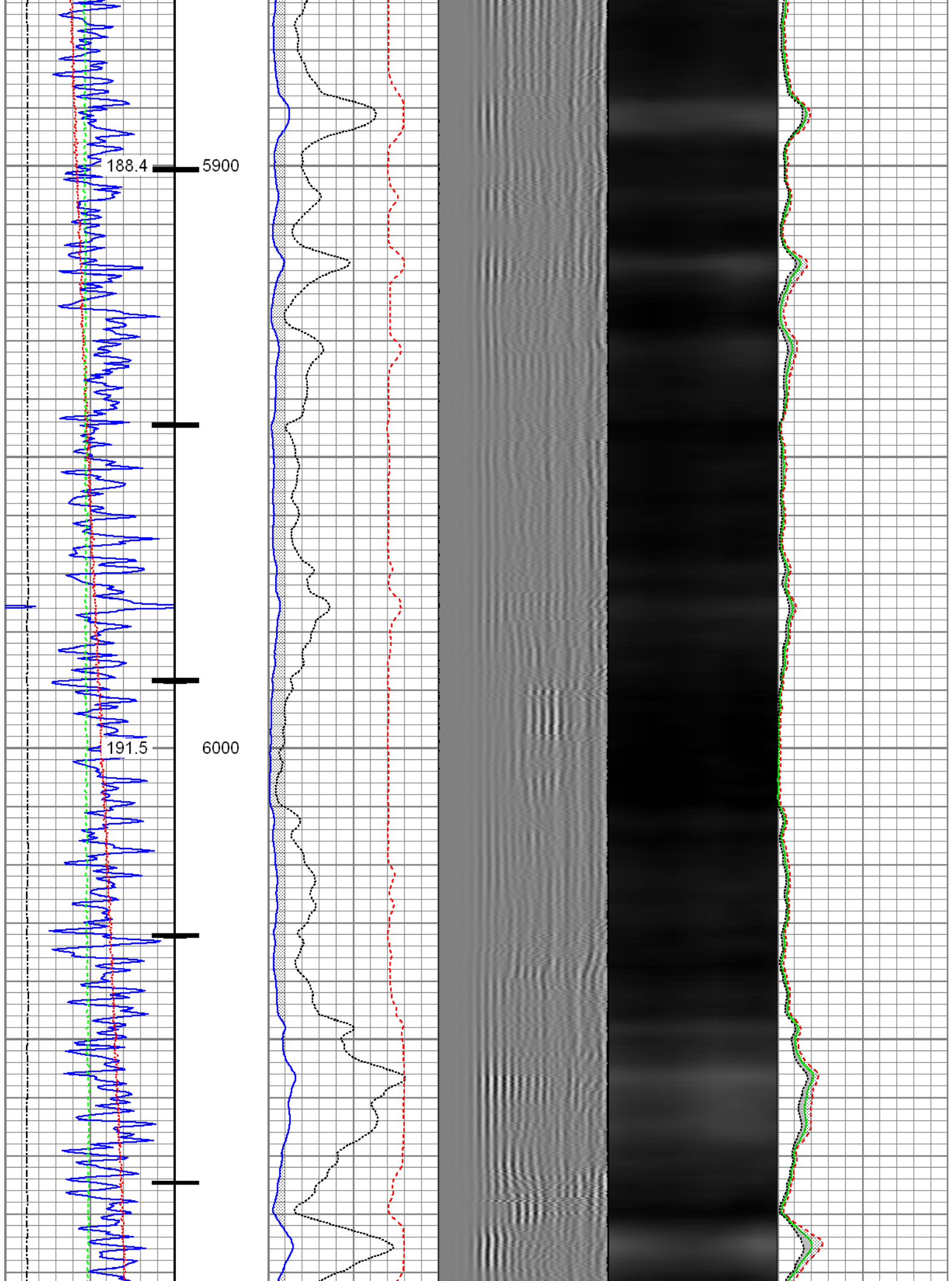


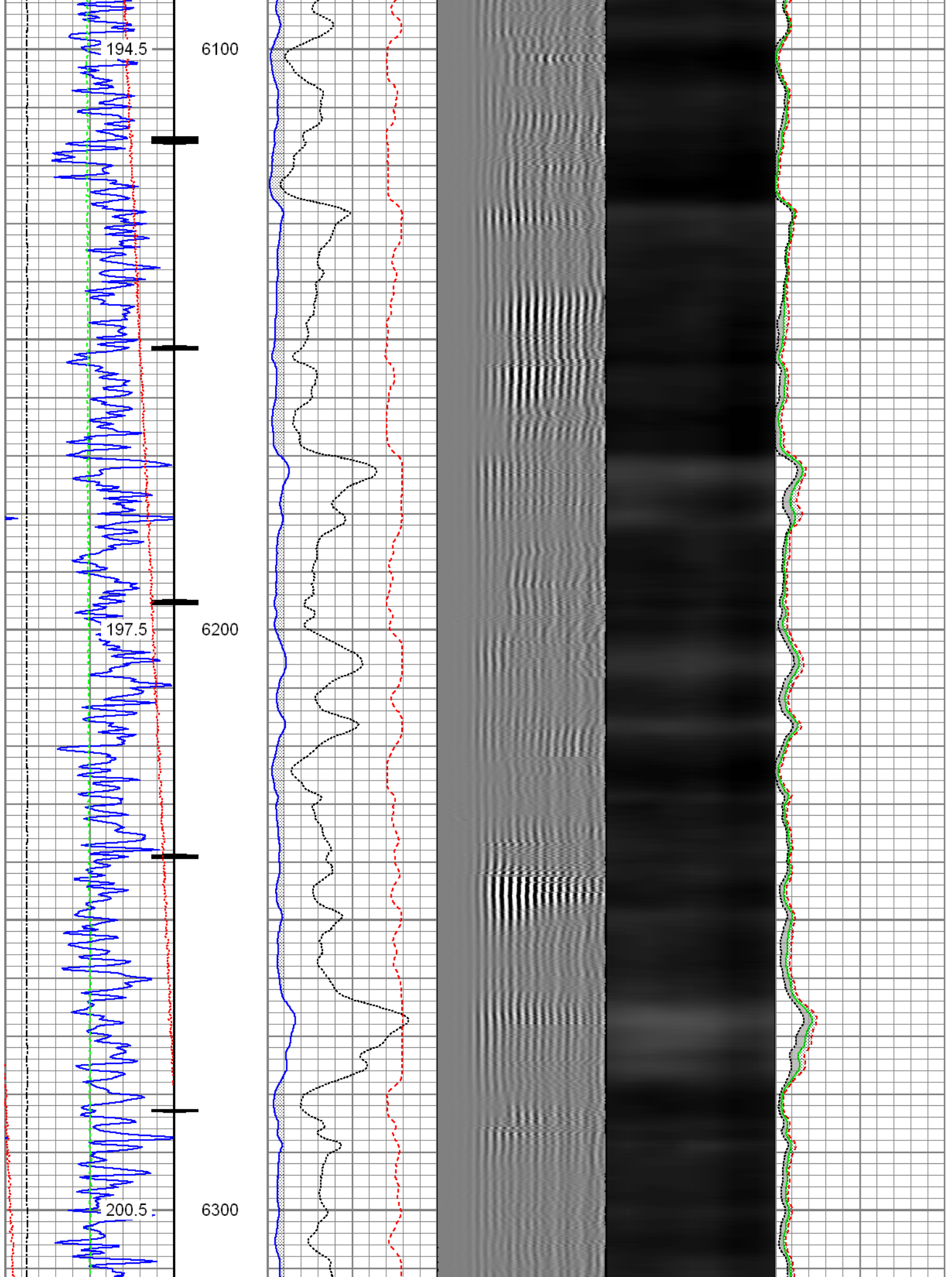


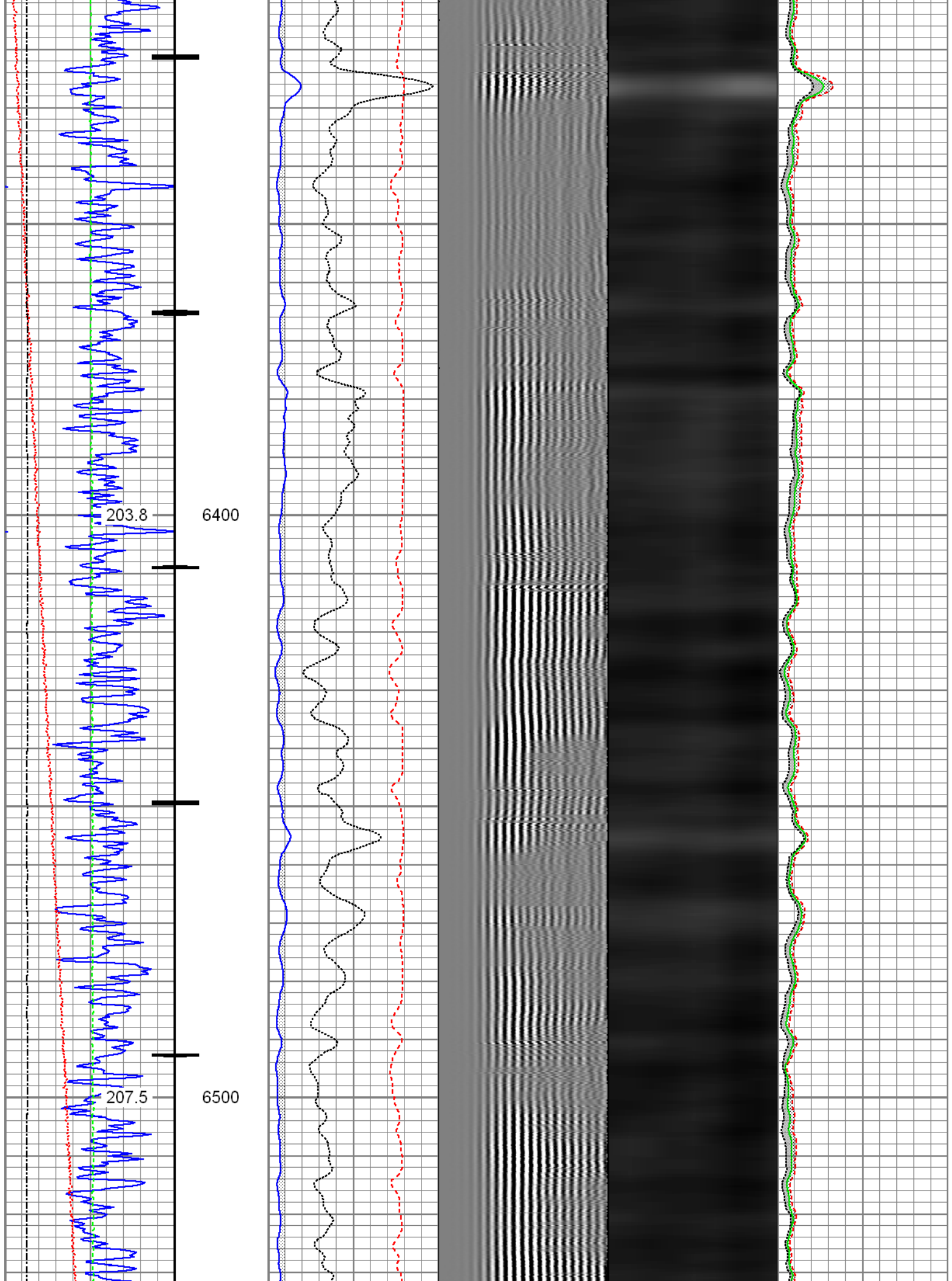


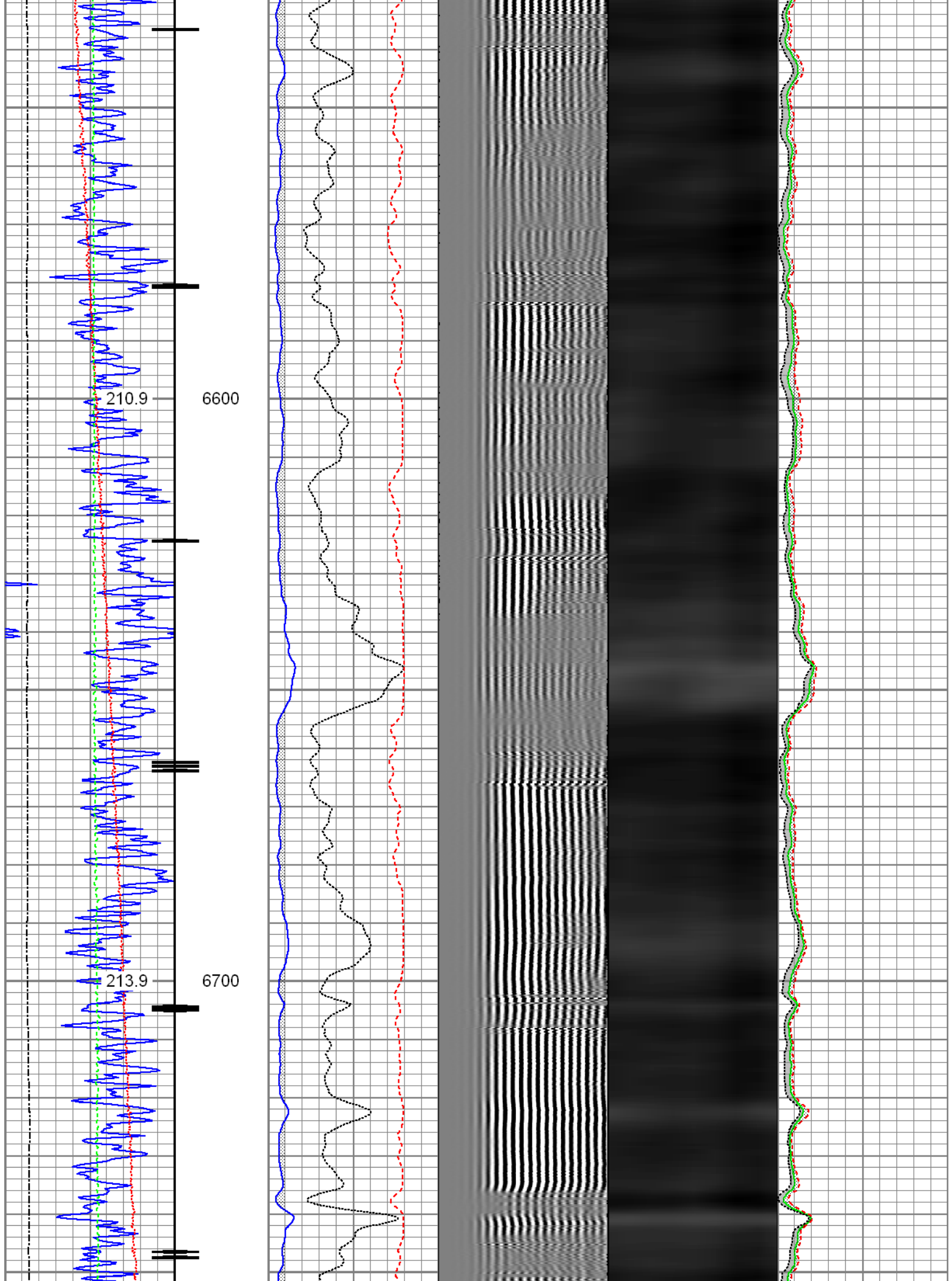


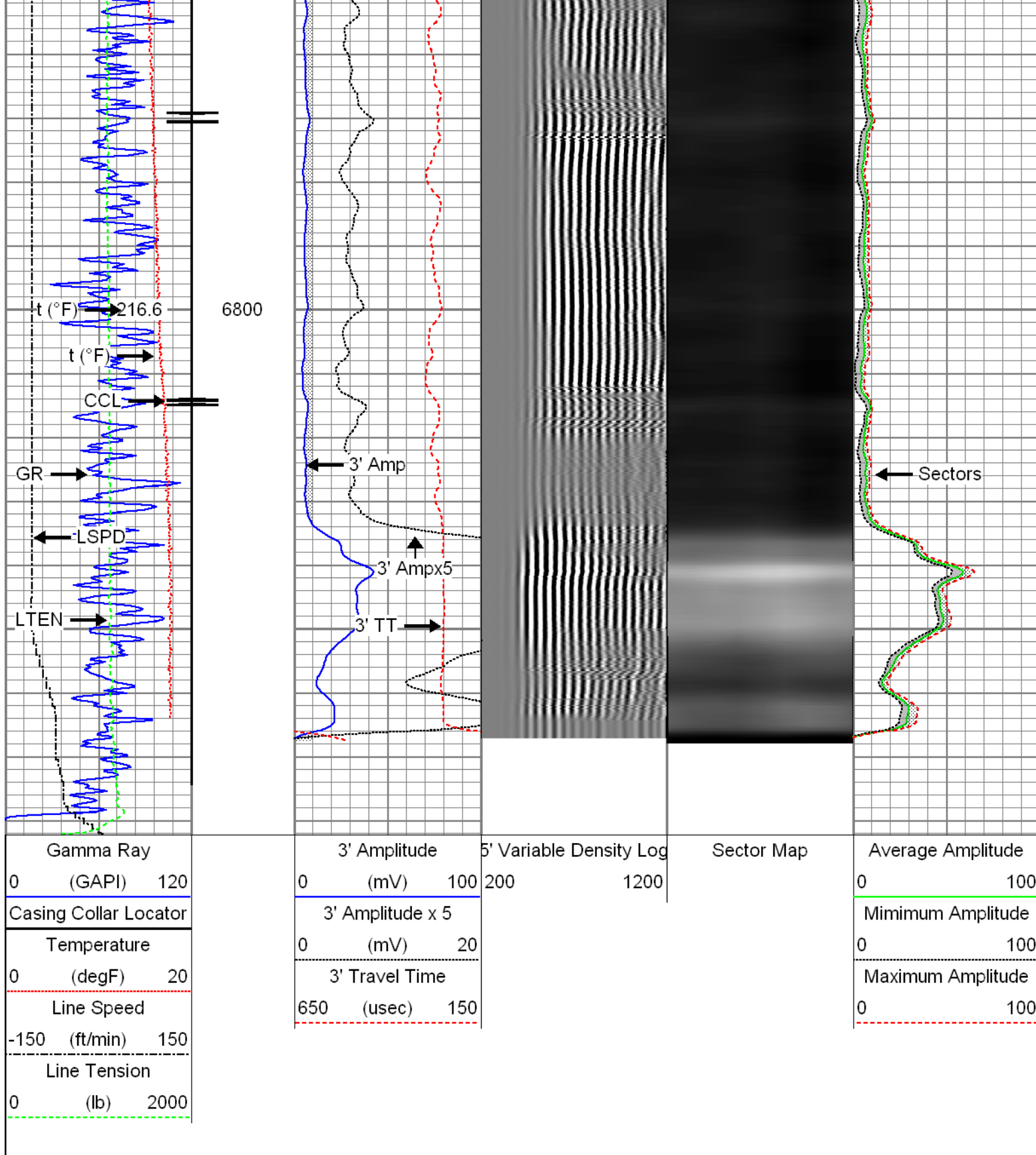












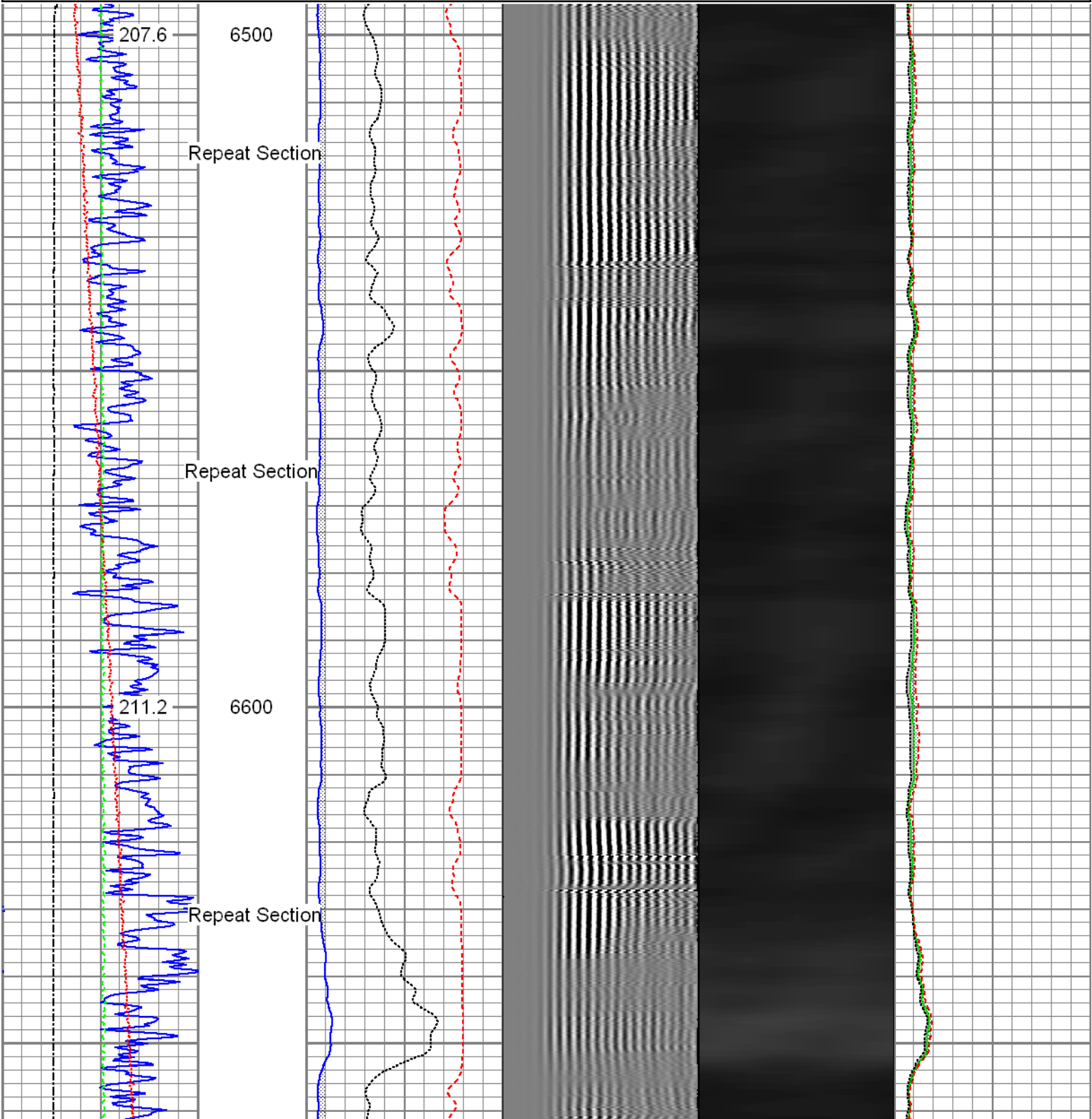
FMC Technologies

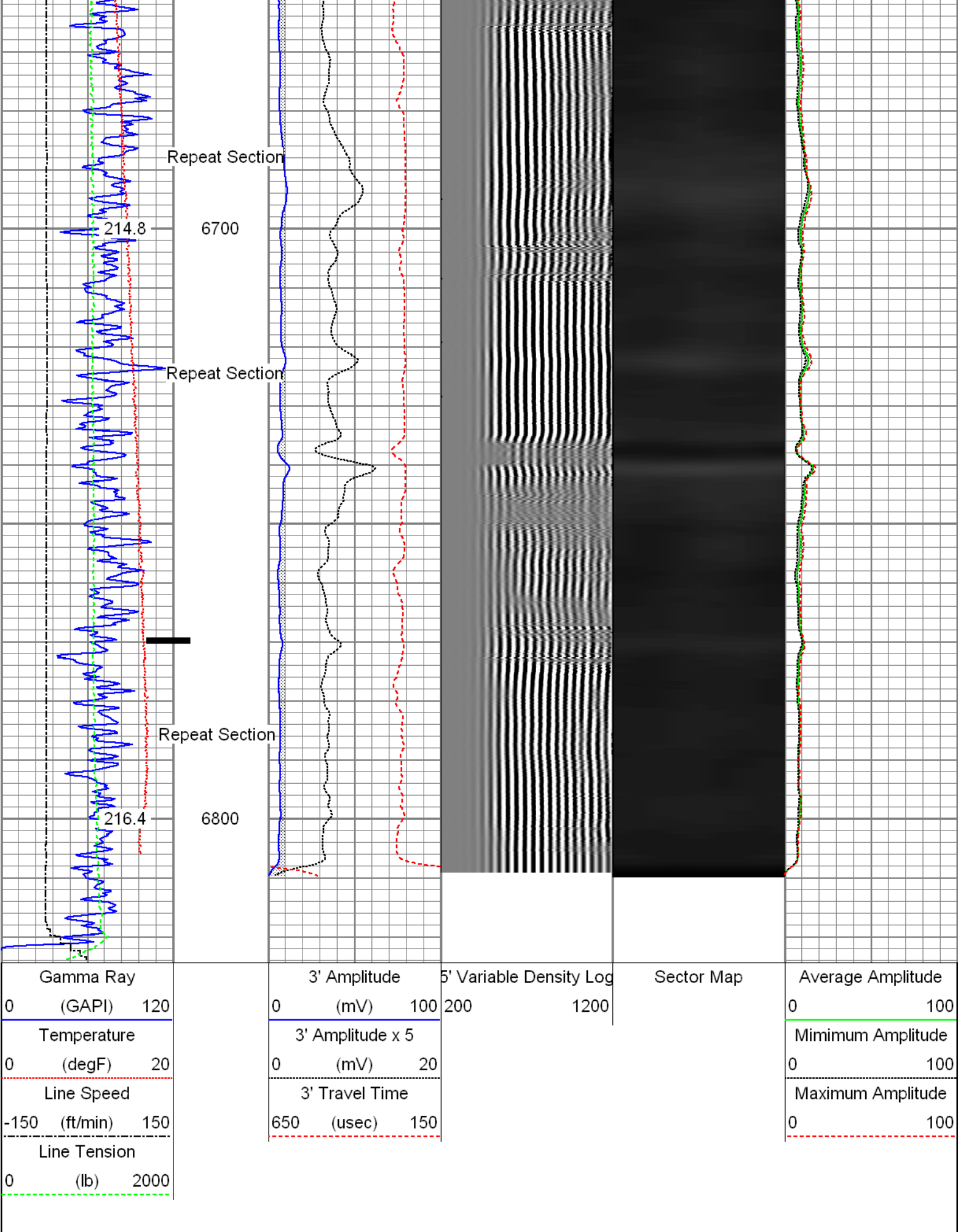
Repeat Pass

Recorded with 2800 PSI Surface Induced Pressure

Database File: 0512340836_anadarko_green 4n-8hz_07-28-15_rbl.db
 Dataset Pathname: repeat
 Presentation Format: radii
 Dataset Creation: Wed Jul 29 09:43:54 2015 by Log 7.0 R1

Dataset Creation.		Wed Jul 29 09:43:54 2015 by Log 7.0 B1		Depth in Feet scaled 1:240	
Charted by:					
Gamma Ray		3' Amplitude		5' Variable Density Log	
0	(GAPI) 120	0	(mV) 100	200	1200
Temperature		3' Amplitude x 5		Sector Map	
0	(degF) 20	0	(mV) 20	Average Amplitude	
Line Speed		3' Travel Time		Minimum Amplitude	
-150	(ft/min) 150	650	(usec) 150	Maximum Amplitude	
Line Tension					
0	(lb) 2000				





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

Calibration Report

Database File: 0512340836_Anadarko_Green 4N-8HZ_07-28-15_RBL.db

Dataset Pathname: 1main

Dataset Creation: Wed Jul 29 10:01:19 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number: FW1307-078
 Tool Model: Probe_SA_GR
 Performed: Mon Jul 27 15:01:42 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: FW1302-001
 Tool Model: 2-3/4"

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 6821.276 ft

Master Calibration, performed Wed Jul 29 09:43:00 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.666	0.800	71.921	107.015	0.614
CAL	0.002	0.730				
5'	0.002	0.638	0.800	71.921	111.813	0.602
SUM						
S1	0.002	0.667	0.000	100.000	150.472	-0.294
S2	0.002	0.697	0.000	100.000	143.795	-0.272
S3	0.002	0.714	0.000	100.000	140.471	-0.273
S4	0.002	0.694	0.000	100.000	144.523	-0.282
S5	0.002	0.664	0.000	100.000	151.041	-0.245
S6	0.001	0.643	0.000	100.000	155.703	-0.078
S7	0.002	0.644	0.000	100.000	155.727	-0.278
S8	0.002	0.658	0.000	100.000	152.435	-0.344

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	0.002	0.730	1.000	0.000

Air Zero Calibration, performed Wed Jul 29 09:43:23 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.002		0.000		-0.000	
5'	0.002		0.000		0.000	
SUM						
S1	0.002		0.000		0.000	

S1	0.002	0.000	0.000
S2	0.002	0.000	-0.000
S3	0.002	0.000	-0.000
S4	0.002	0.000	0.000
S5	0.002	0.000	-0.000
S6	0.001	0.000	-0.000
S7	0.001	0.000	0.001
S8	0.003	0.000	-0.000

	Company	Kerr-McGee Oil & Gas Onshore, L.P.
	Well	Green 4N-8HZ
	Field	Wattenberg
	County	Weld
	State	Colorado