

Radial Cement Bond Gamma Ray Casing Collar Log

Company	Kerr-McGee Oil & Gas Onshore, L.P.				
Well	Green 2C-8HZ				
Field	Wattenberg				
County	Weld				
State	Colorado				
Company	Kerr-McGee Oil & Gas Onshore, L.P.				
Well	Green 2C-8HZ				
Field	Wattenberg				
County	Weld	State	Colorado		
Location:	API # : 05-123-40834			Other Services Gauge Ring RBP	
SEC 8		TWP 1N	RGE 65W		
Permanent Datum	Ground Level	Elevation	4972'	Elevation	
Log Measured From	Kelly Bushing	16 FT		K.B. 4988' D.F. 4987' G.L. 4972'	
Drilling Measured From	Kelly Bushing				

Date	29-JUL-2015
Run Number	Three
Depth Driller	13581 FT
Depth Logger	6976 FT
Bottom Logged Interval	6962 FT
Top Log Interval	Surface
Open Hole Size	8.750"
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	220°F
Estimated Cement Top	152 FT
Time Well Ready	ROA
Time Logger on Bottom	07:40
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	1561 FT		
Intermediate #1	5 1/2	17	HC-P110	Surface	13572 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

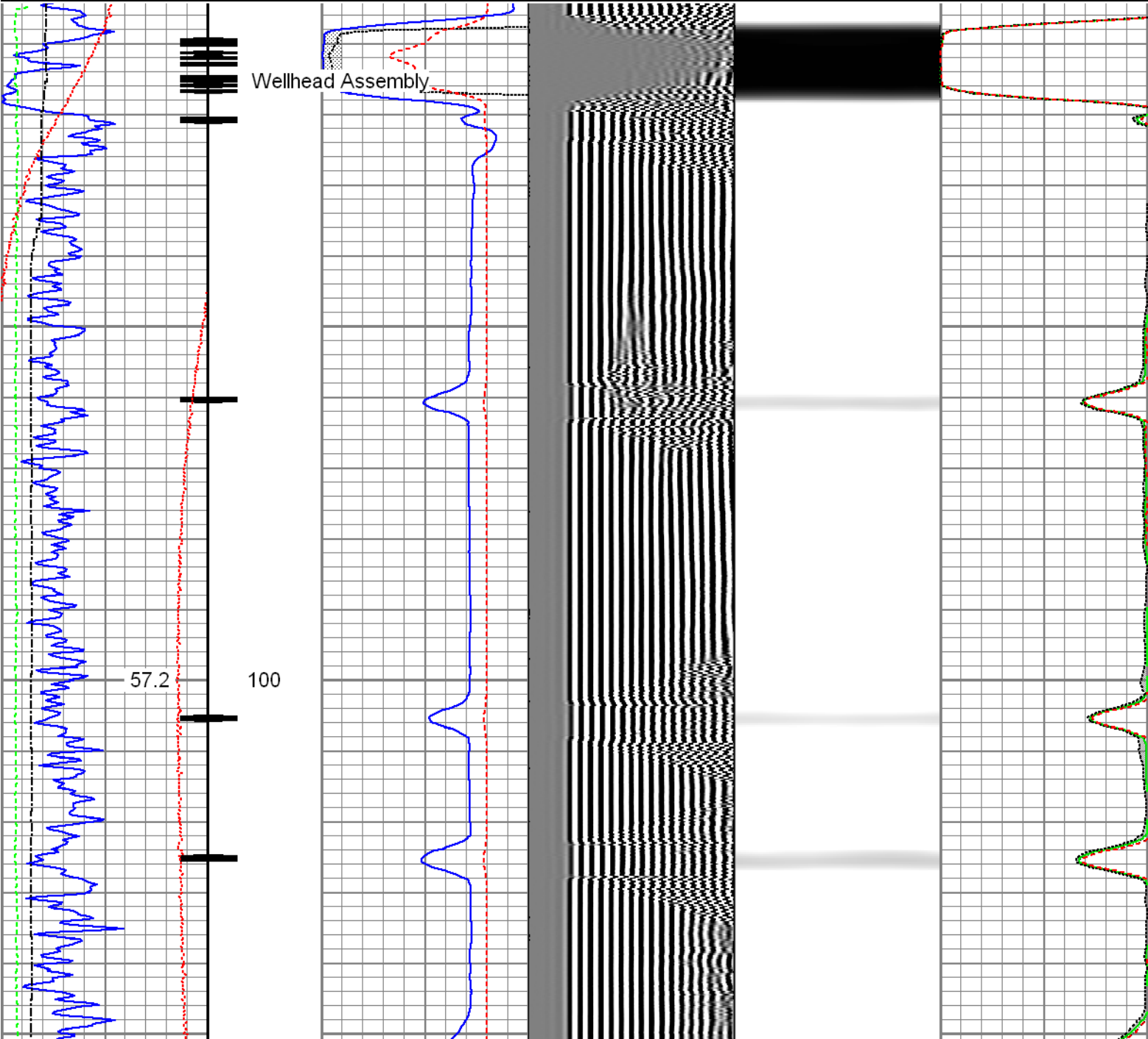
Gauge Ring/Junk Basket ran to 7341 FT no debris was found after run
Set RBP at 6700 FT

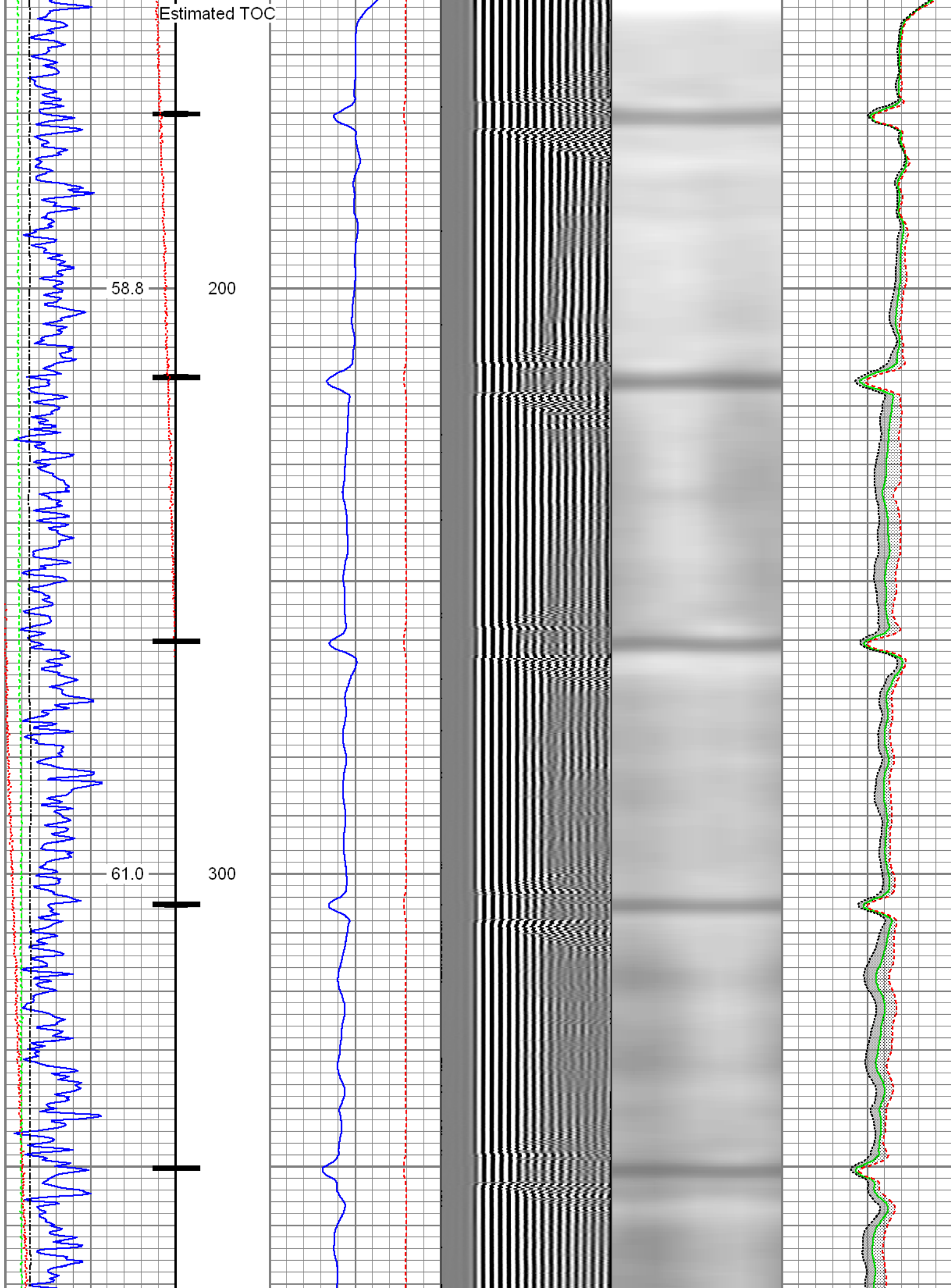
Log ran from 6978 FT to surface
Recorded with 2800 PSI surface induced pressure

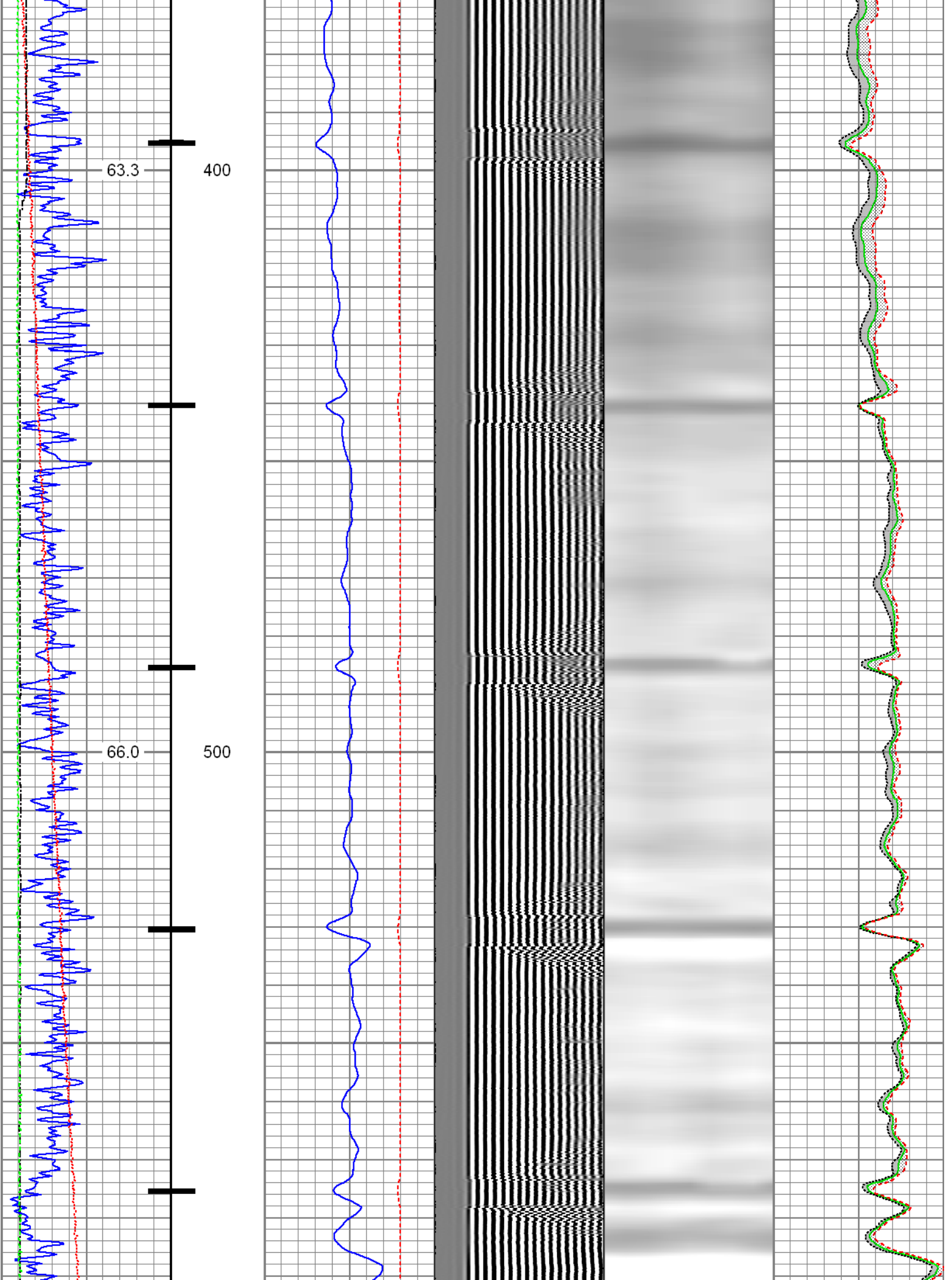
Thank you for choosing FMC Technologies Completion Services, Inc.!!

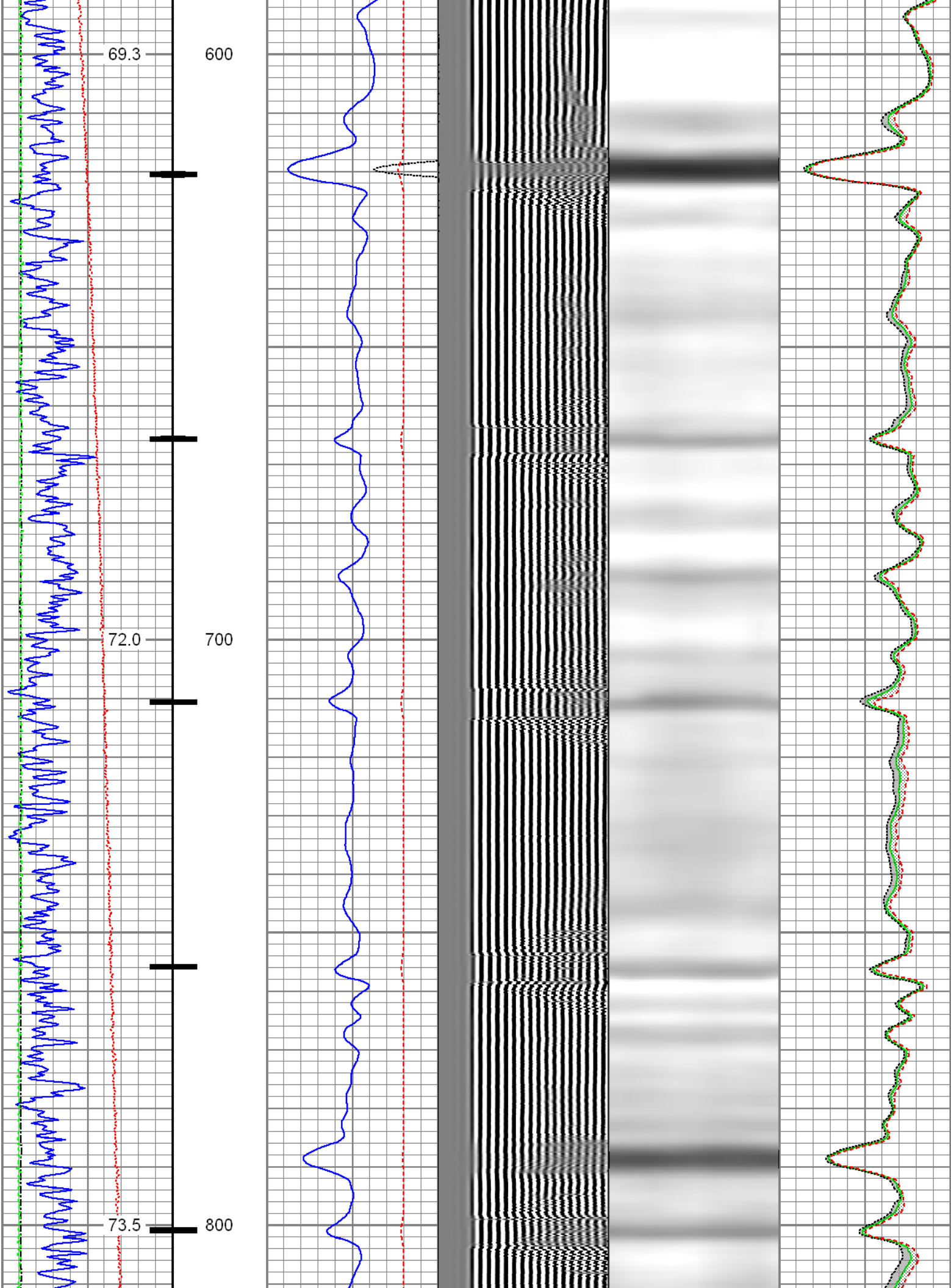
Database File: 0512340834_anadarko_green 2c-8hz_07-29-15_rbl.db
Dataset Pathname: main.1
Presentation Format: radii
Dataset Creation: Wed Jul 29 10:54:29 2015 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

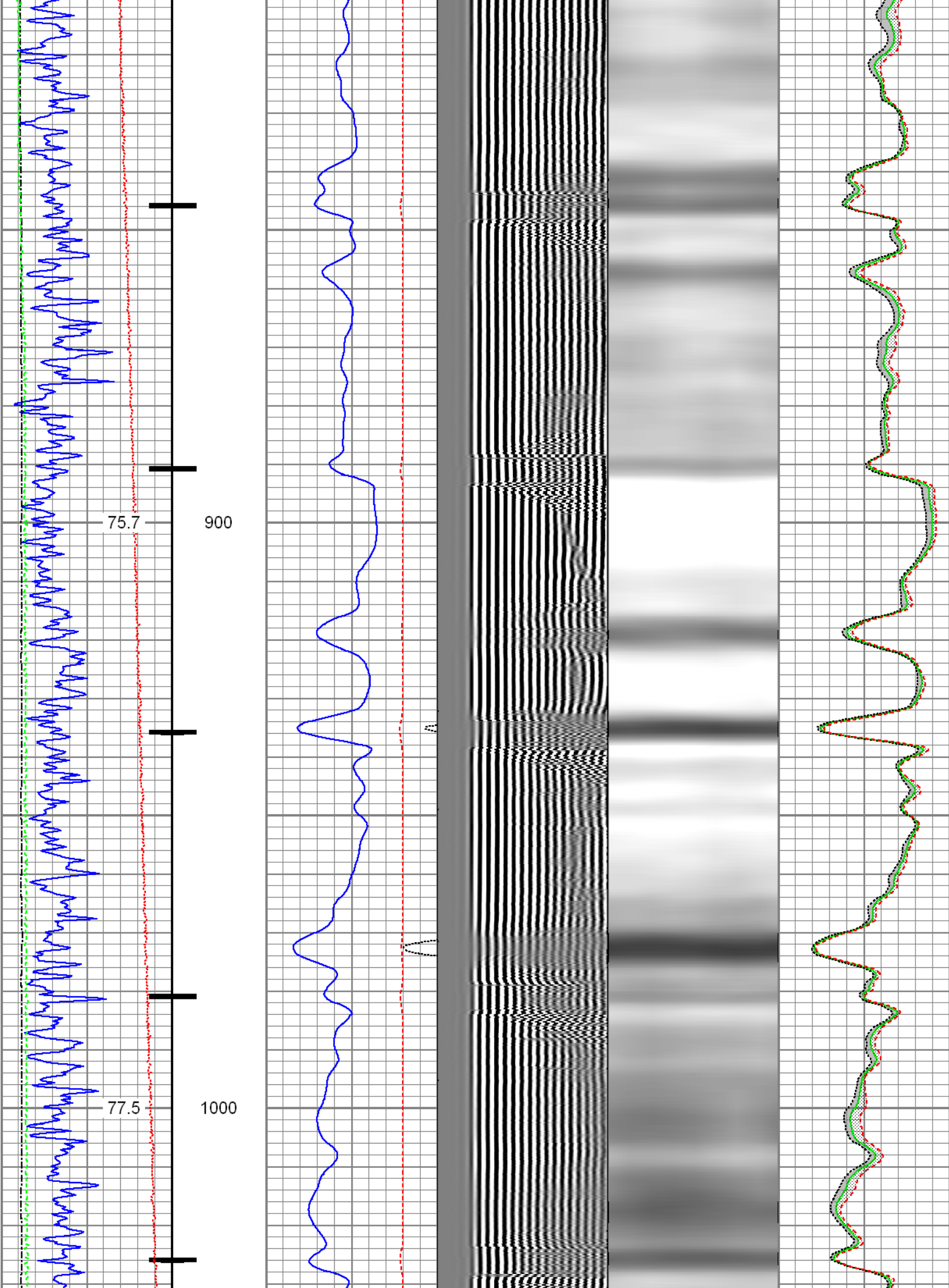
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
Temperature	0 (mV) 20			0 100
0 (degF) 20	3' Travel Time			Maximum Amplitude
Line Speed	650 (usec) 150			0 100
-150 (ft/min) 150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

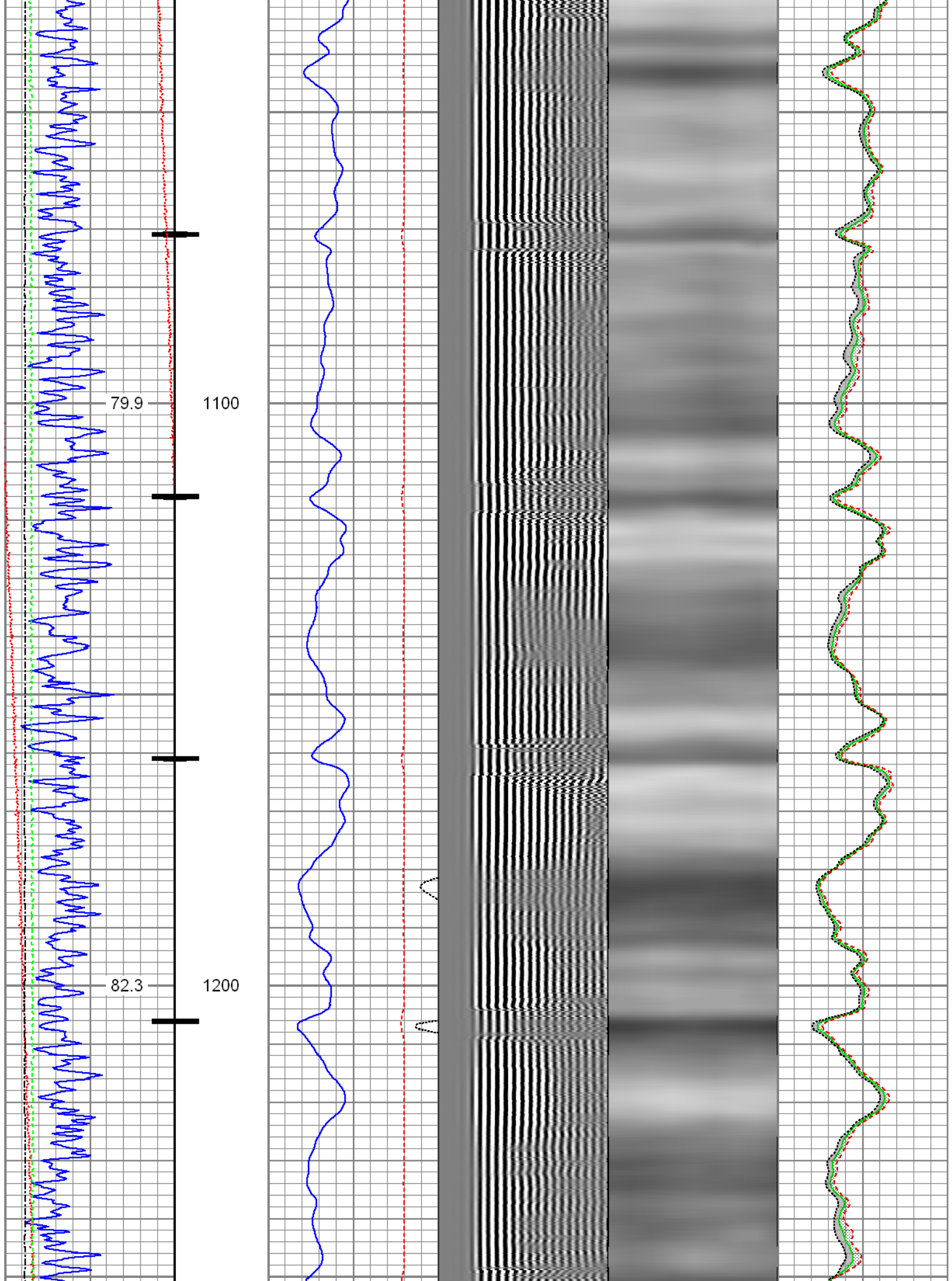


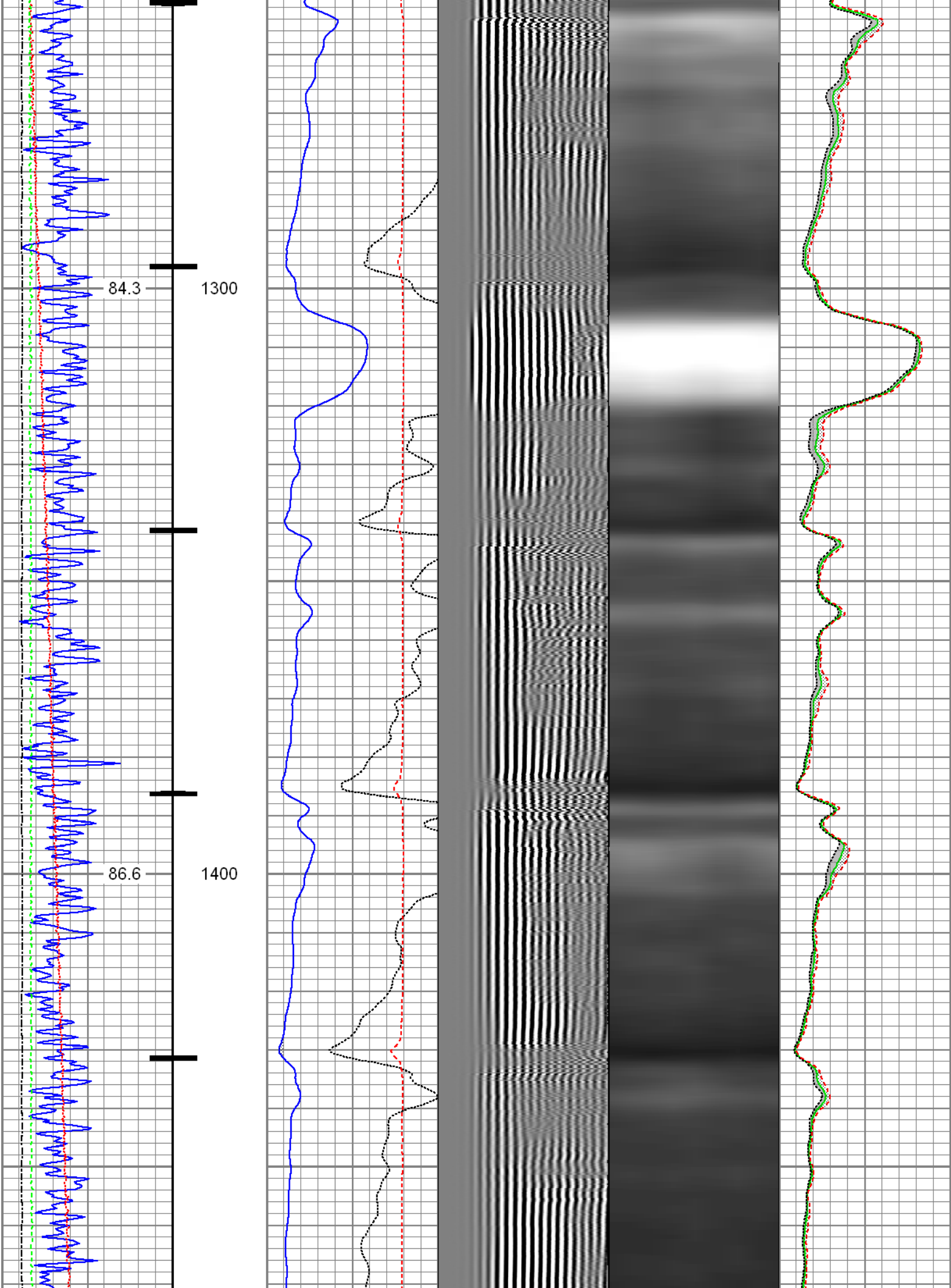


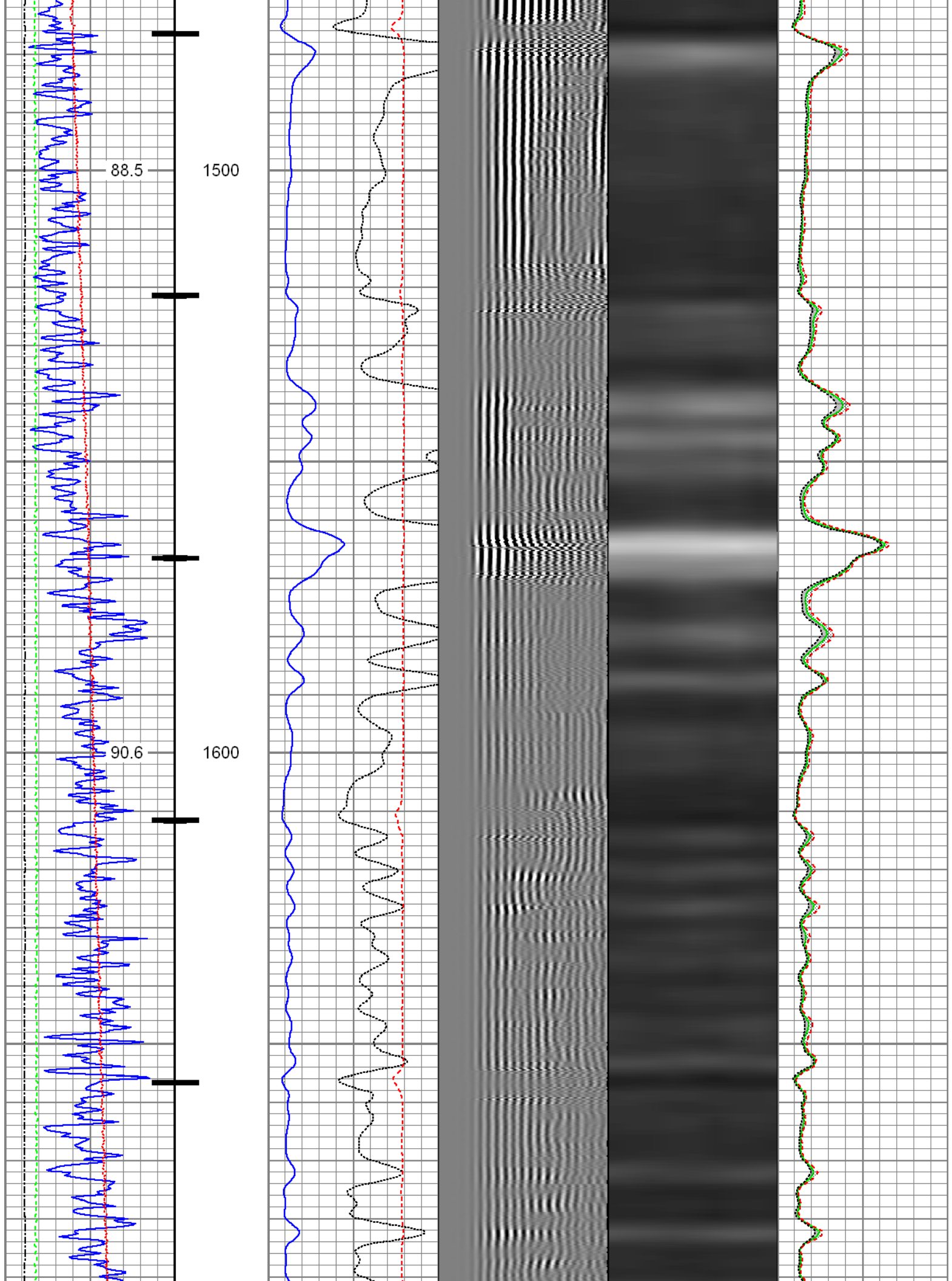


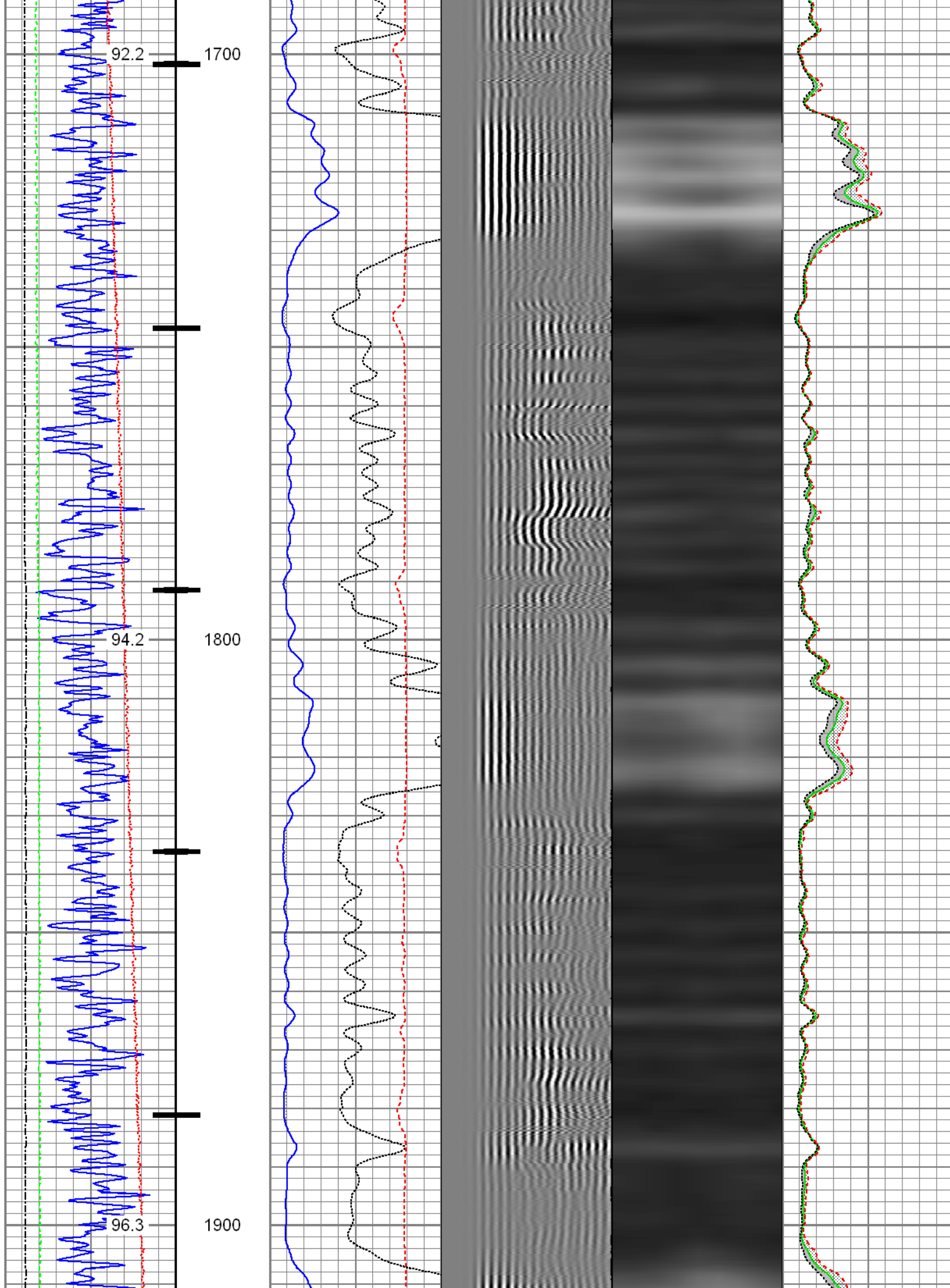


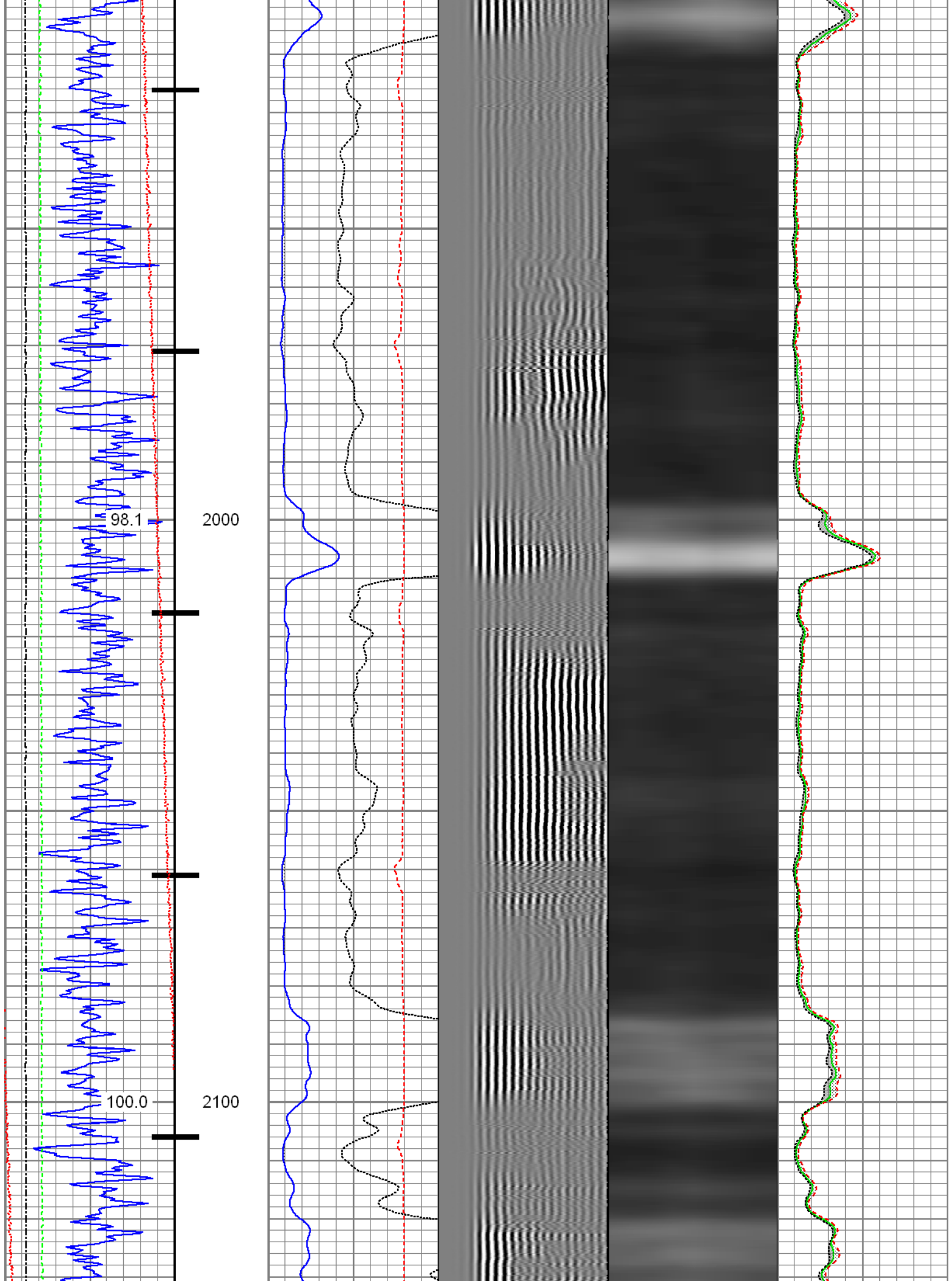


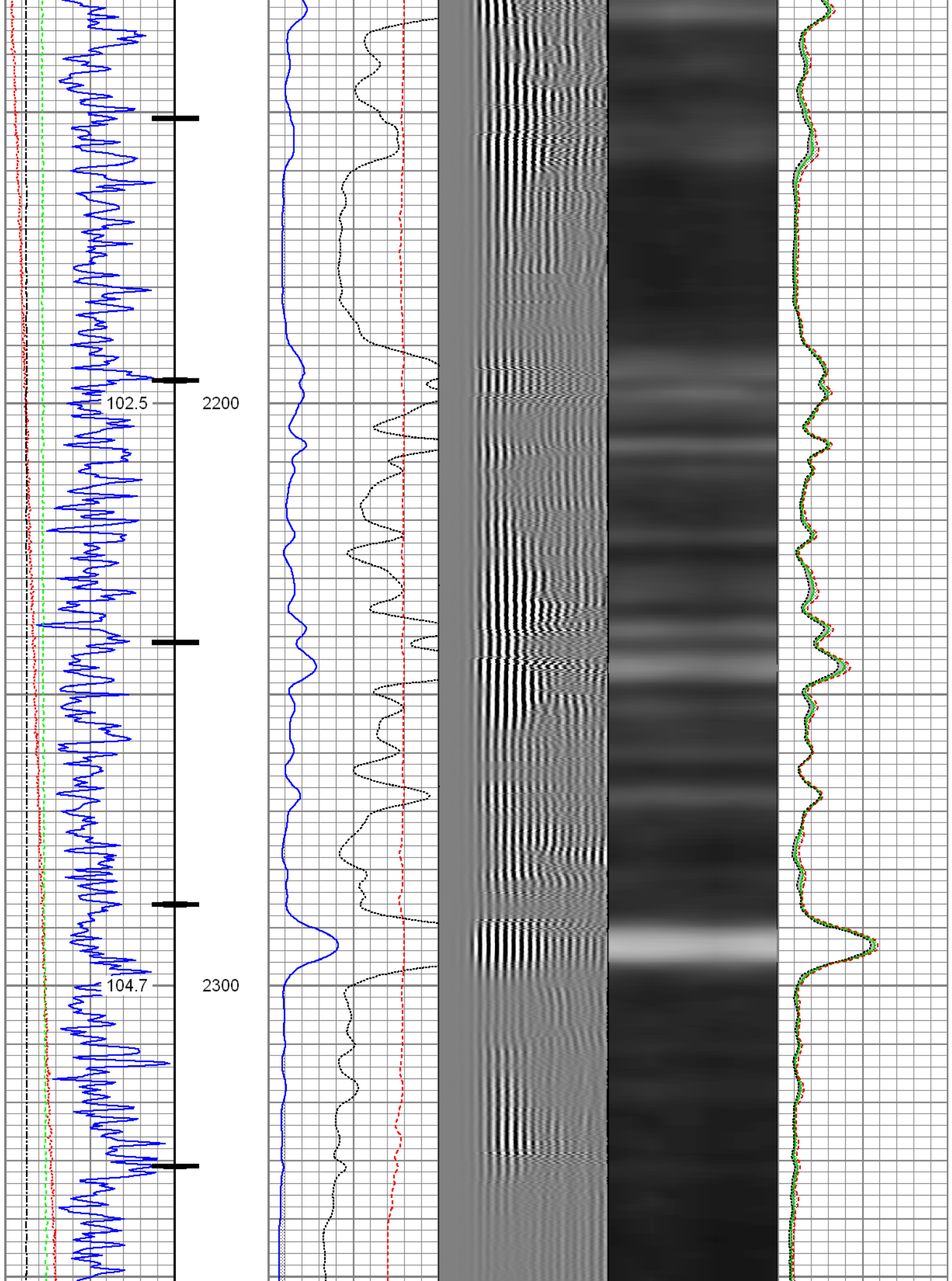


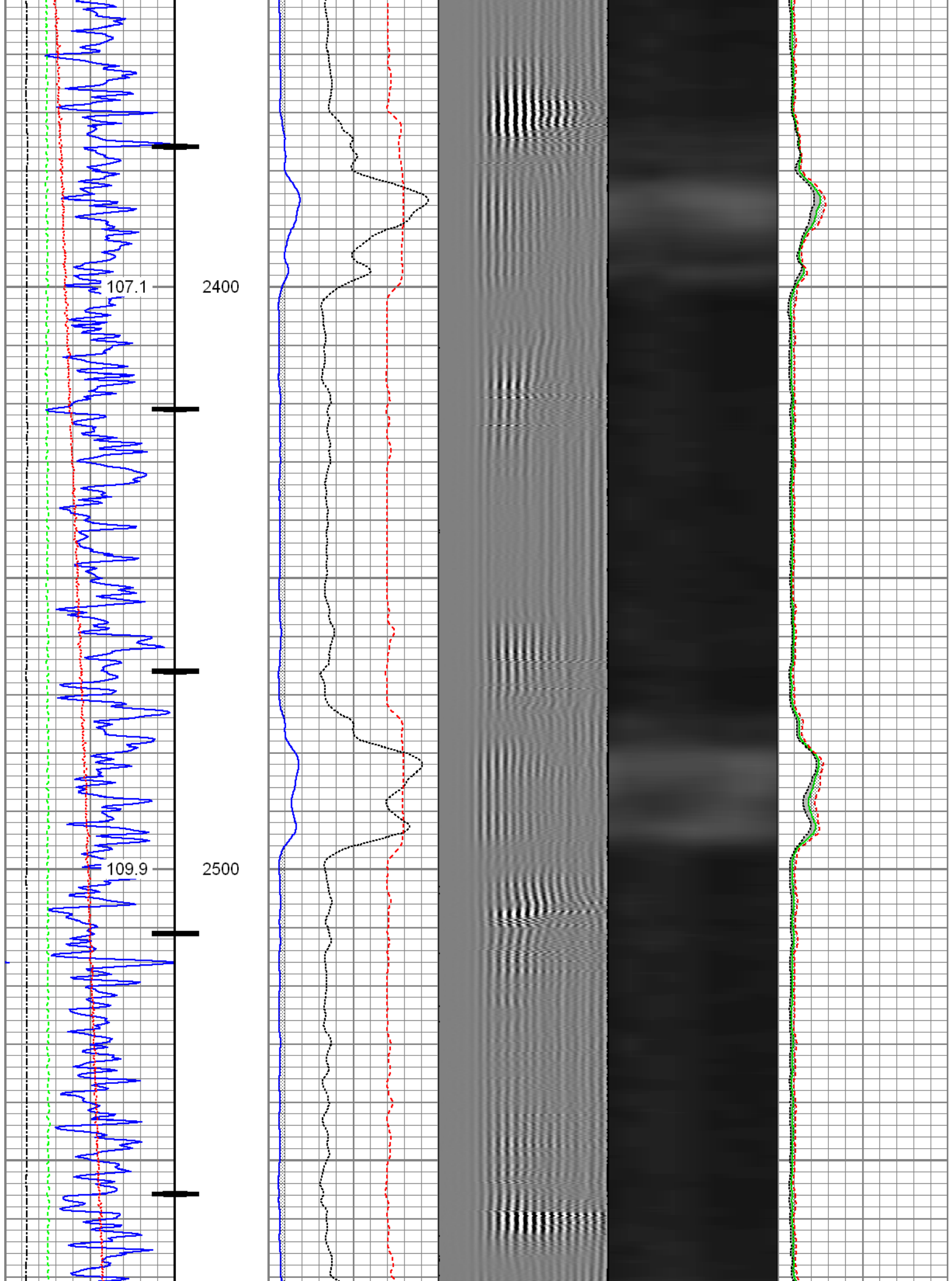


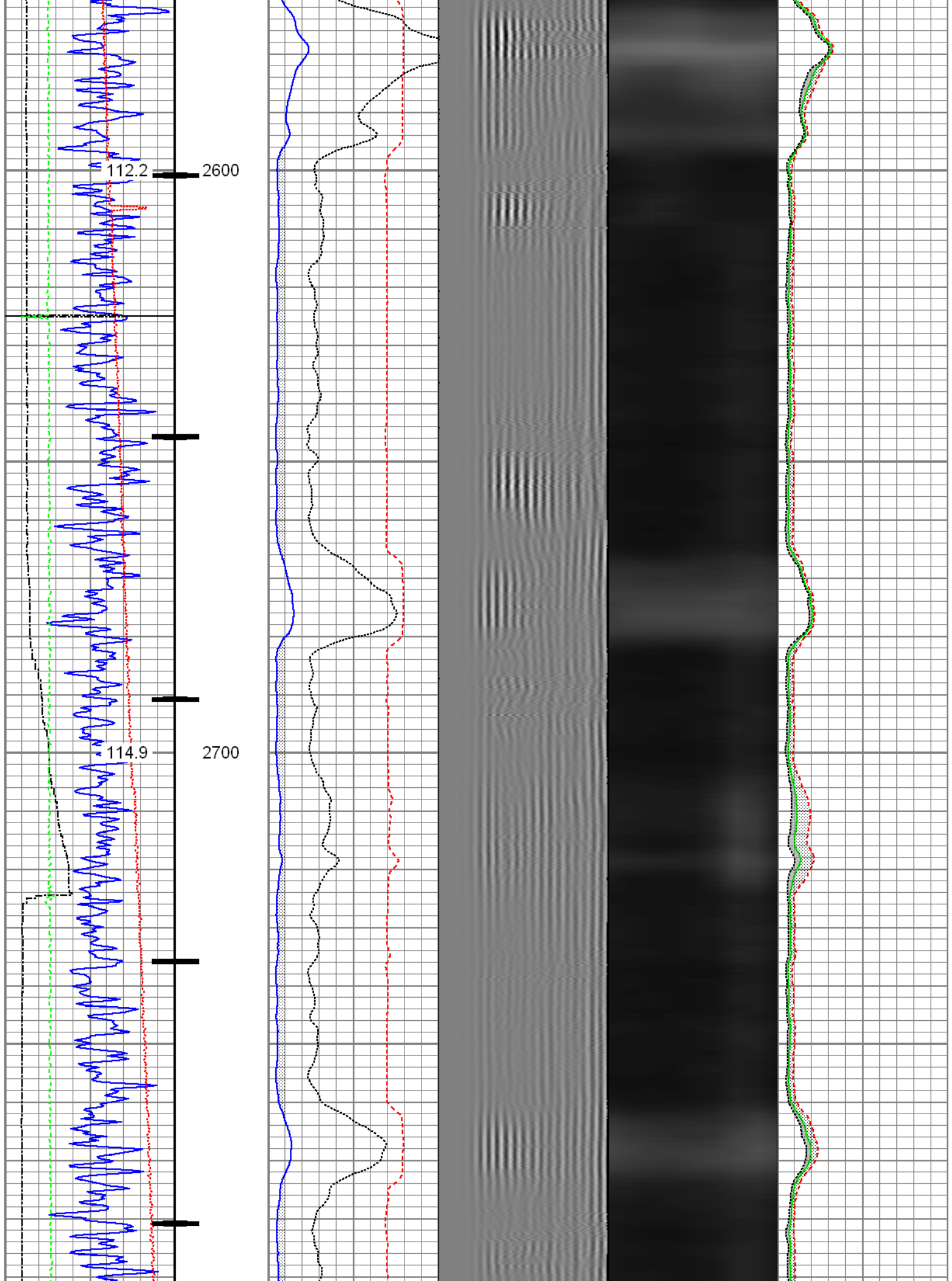


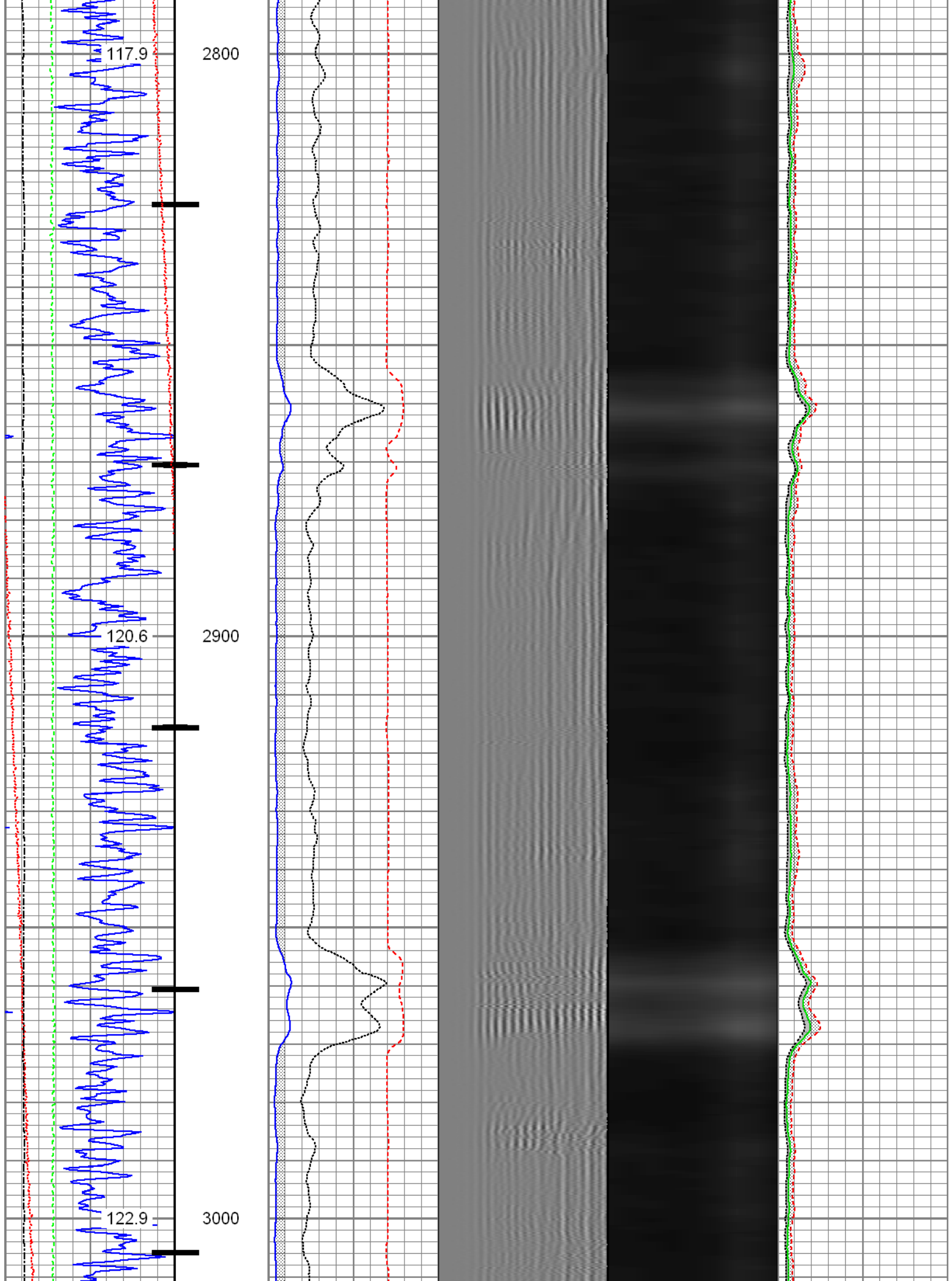


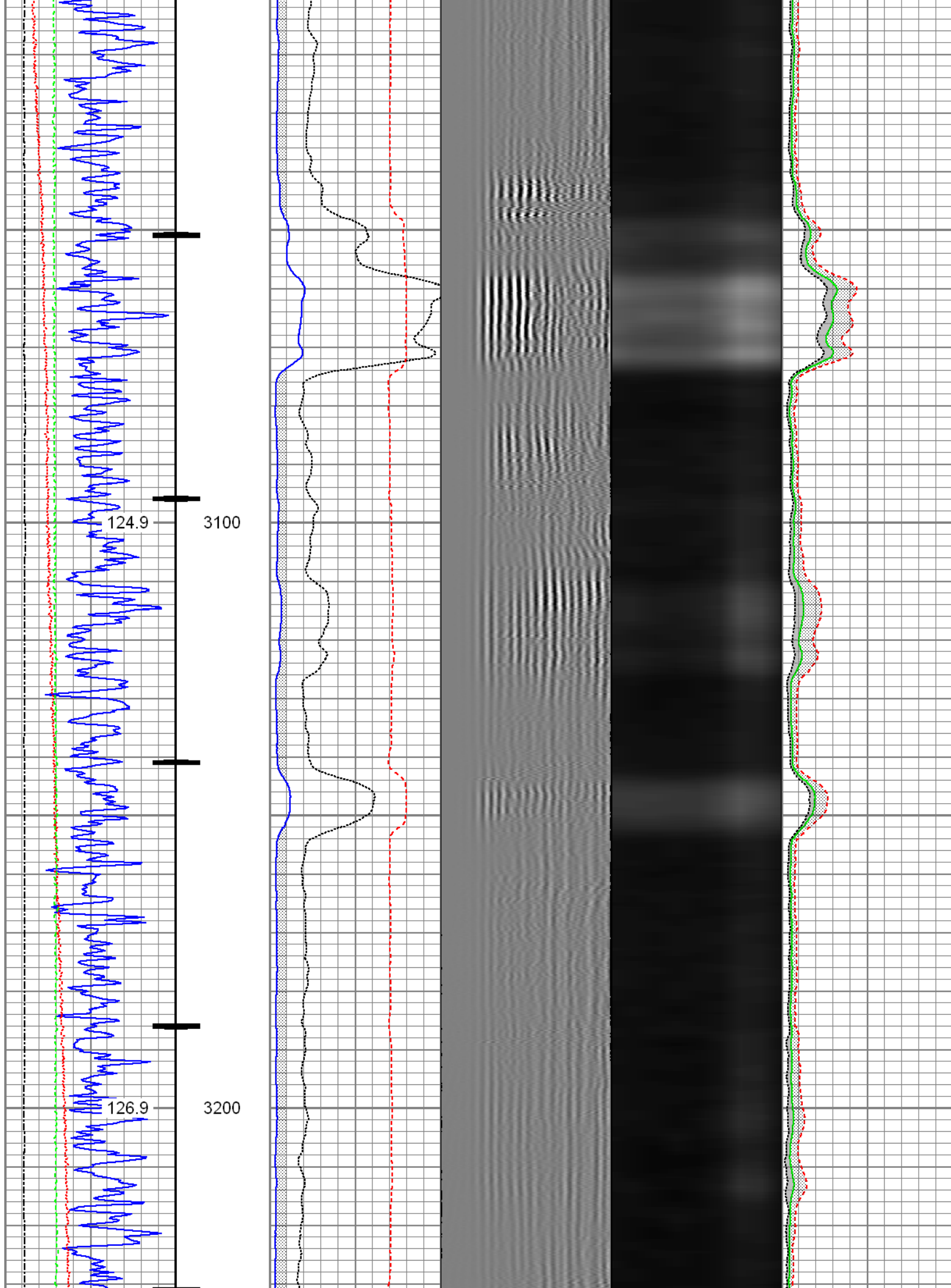


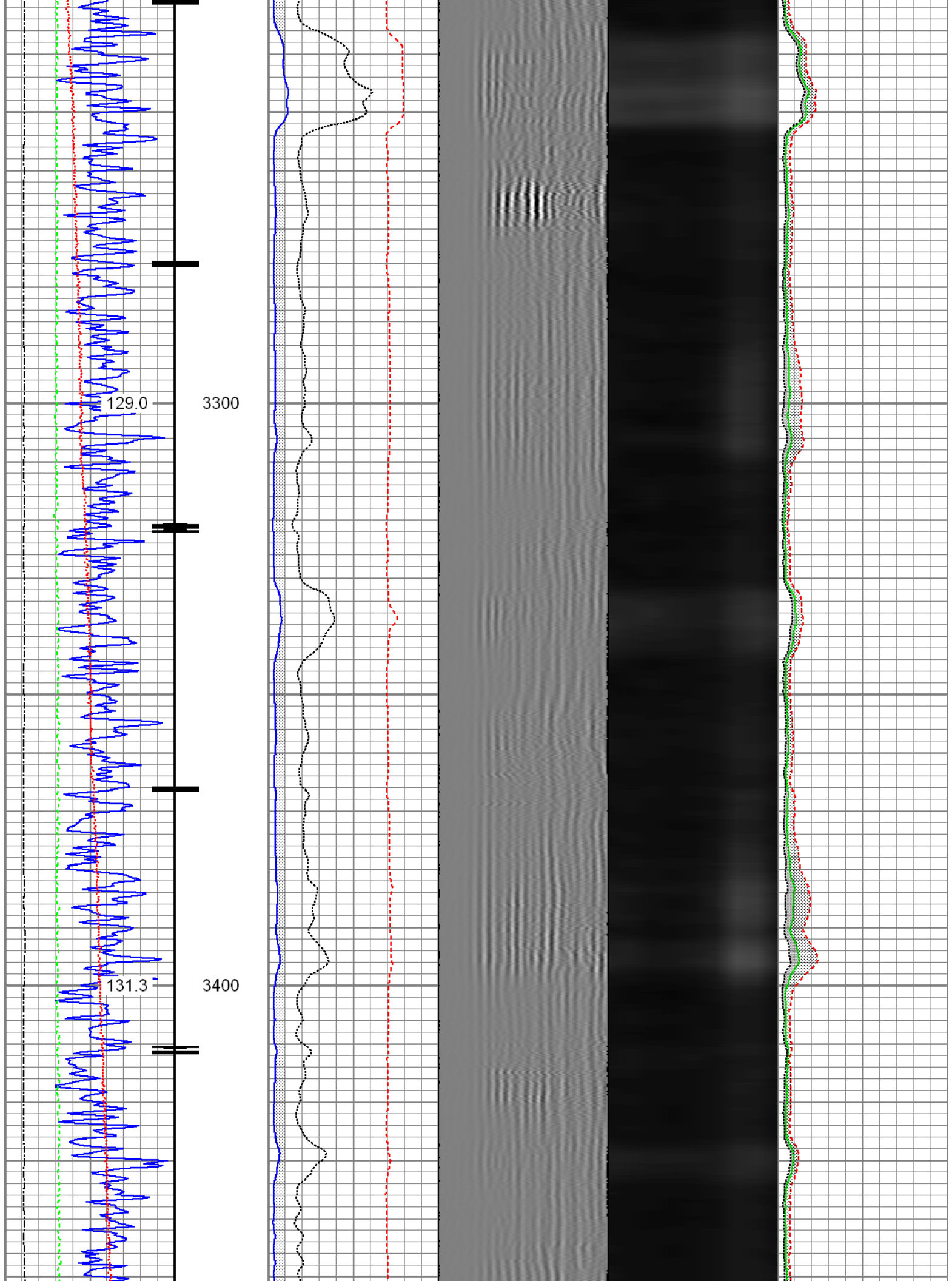


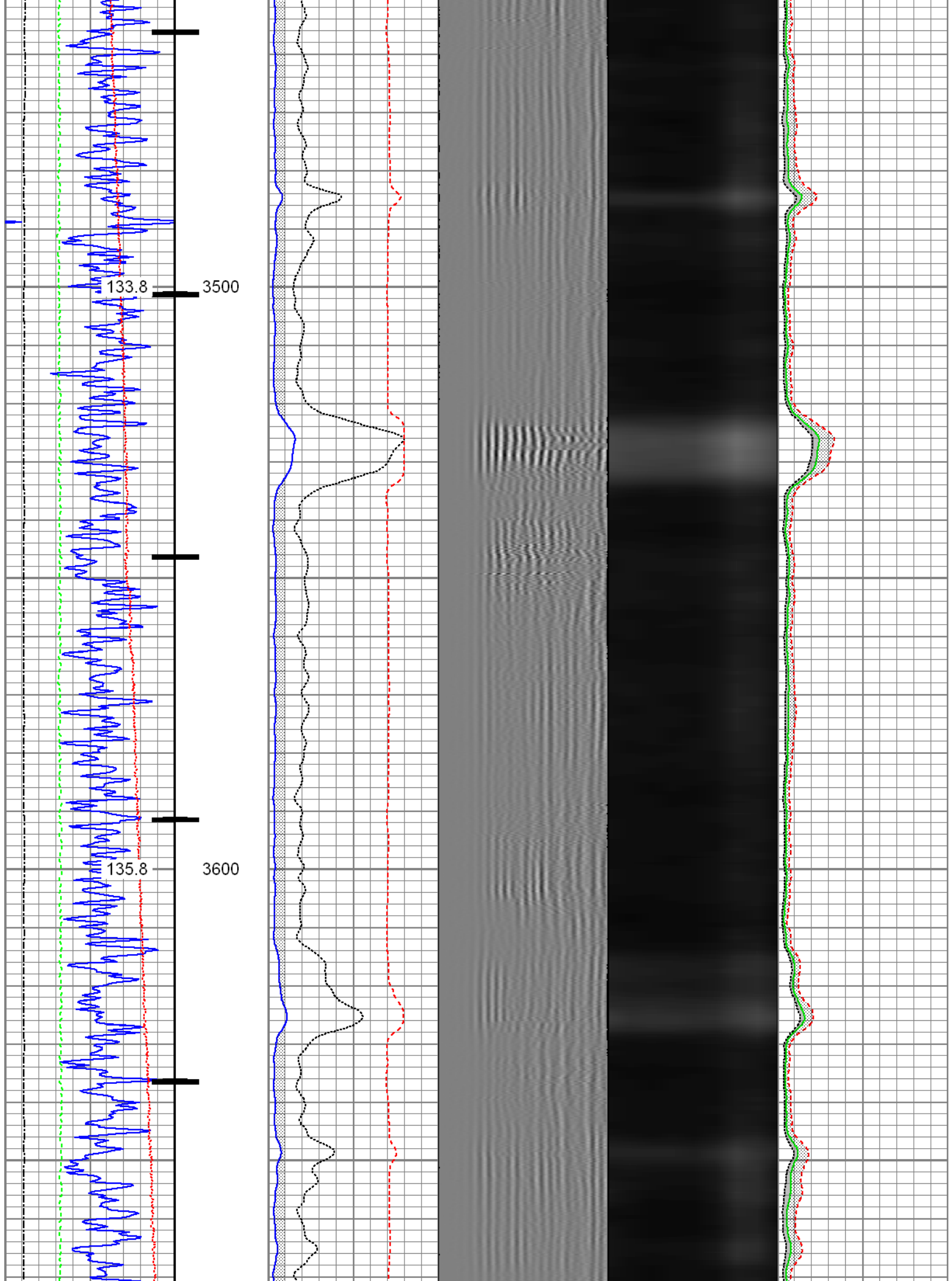


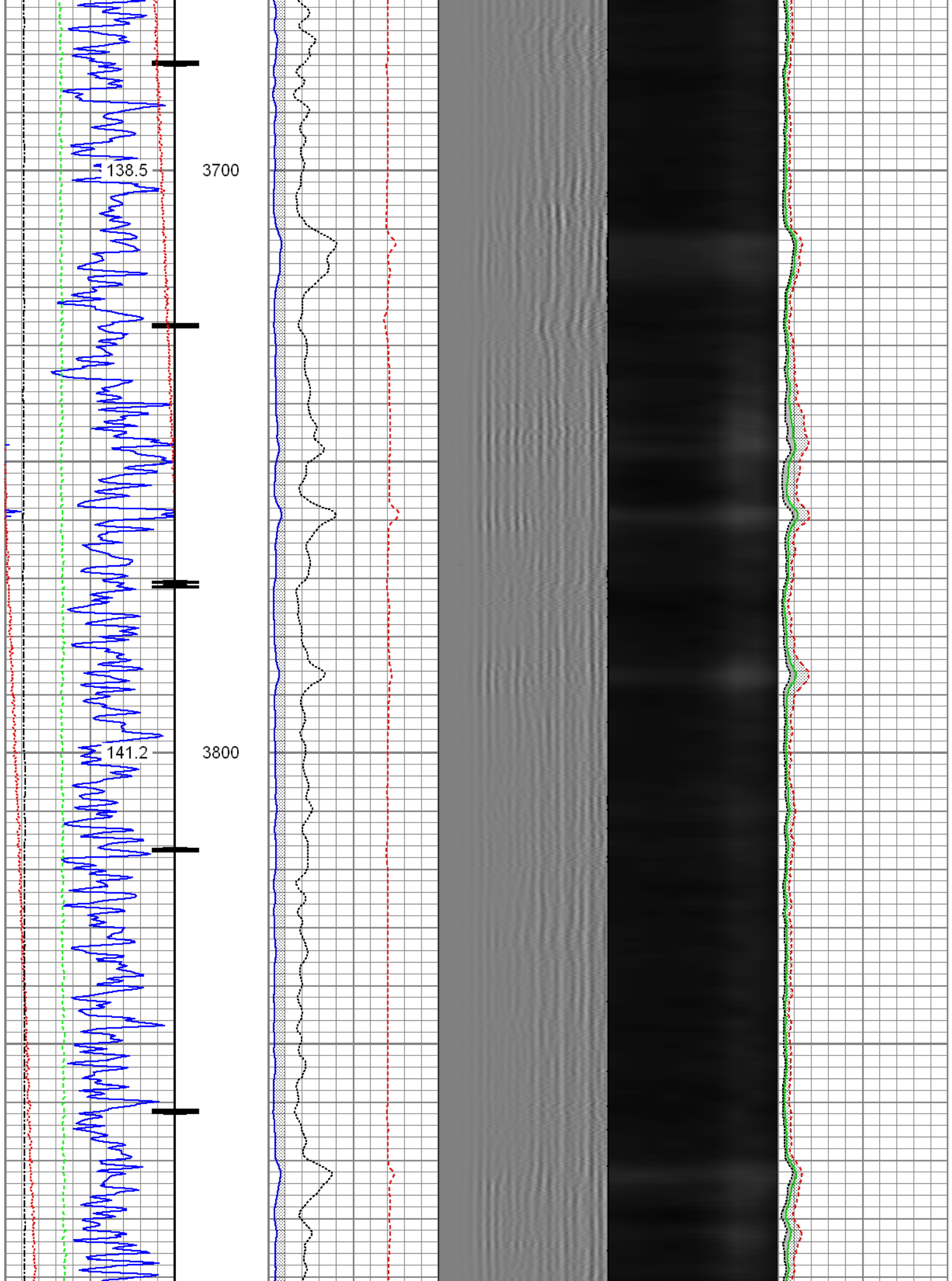


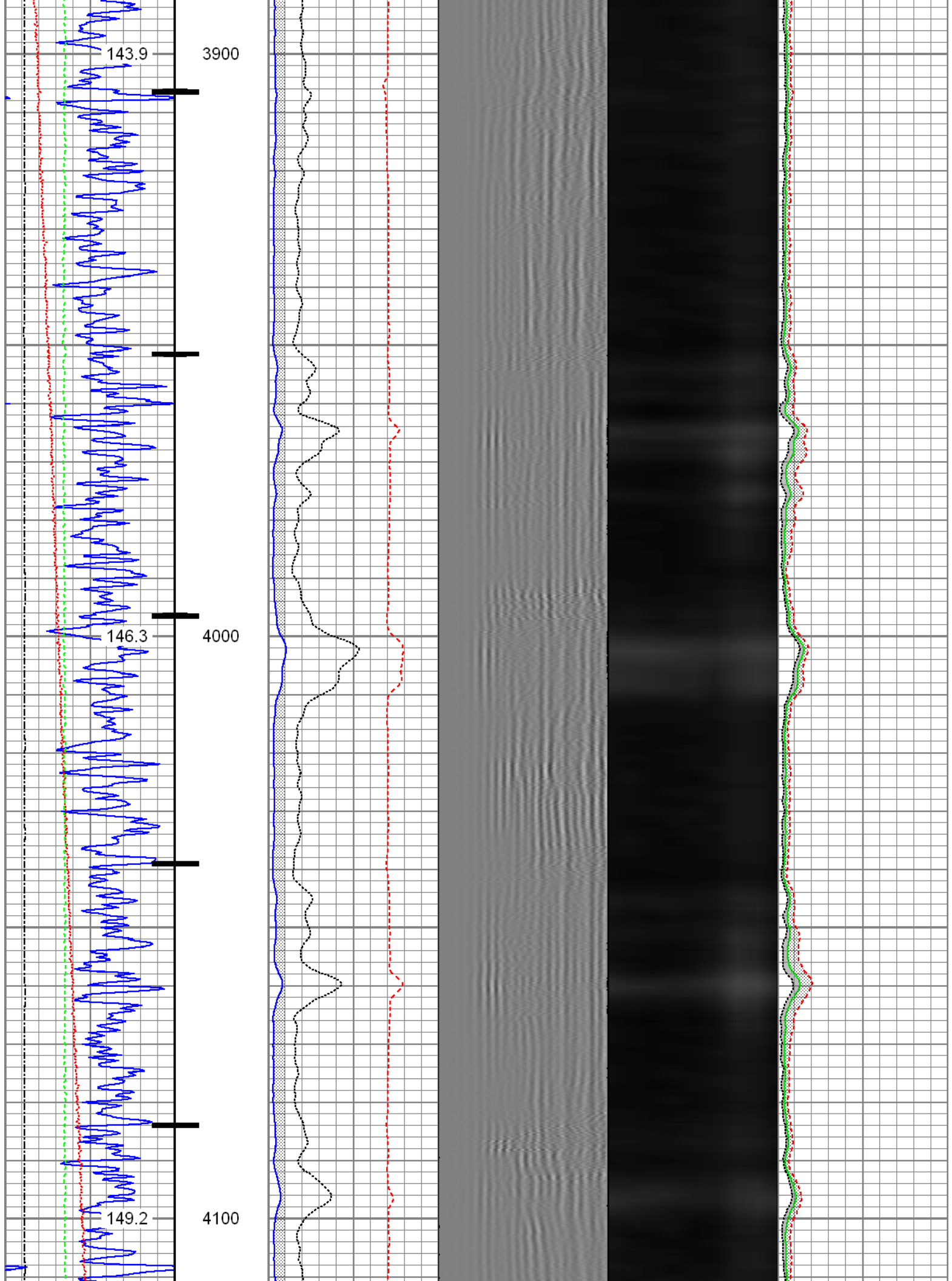


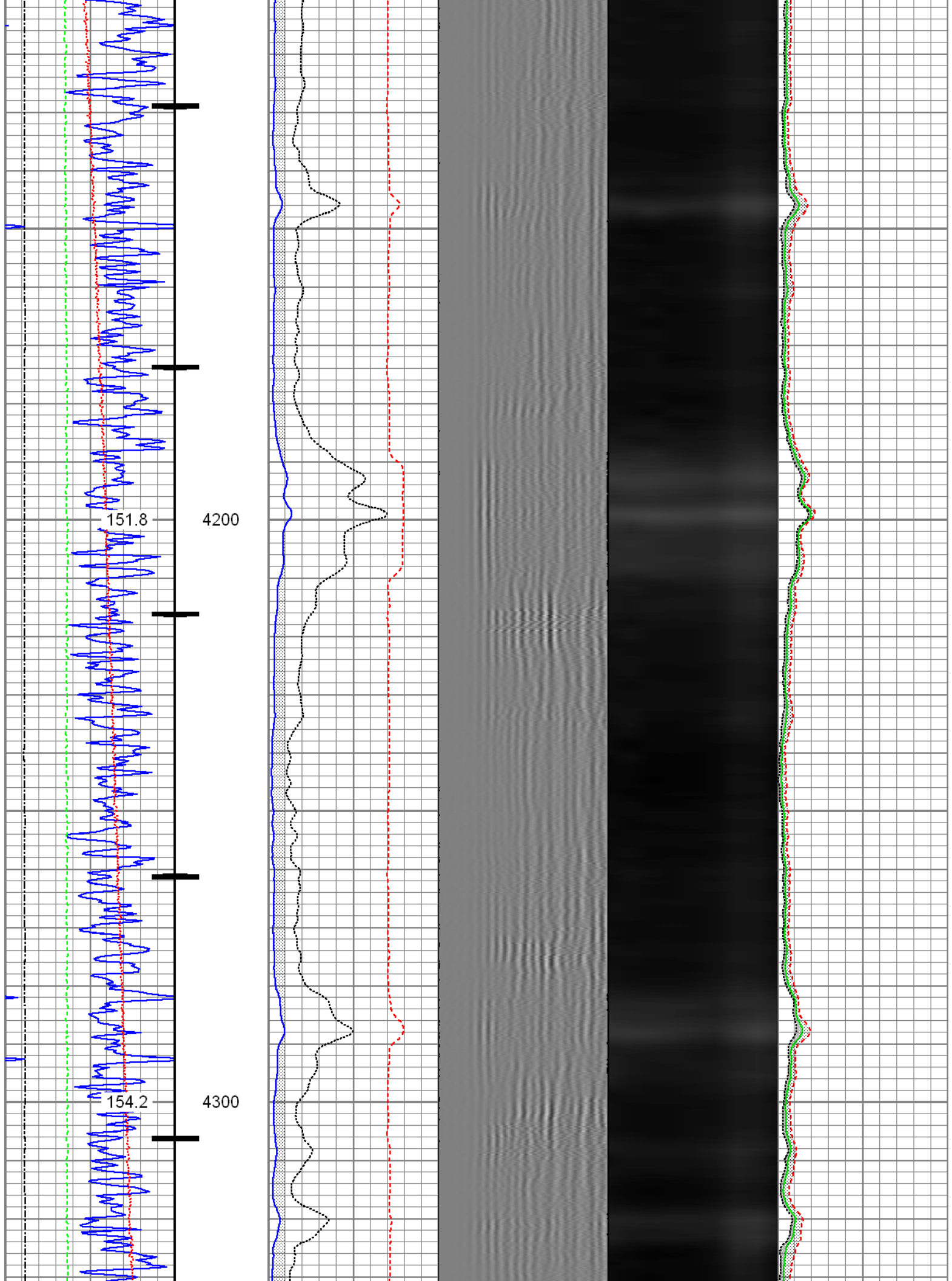


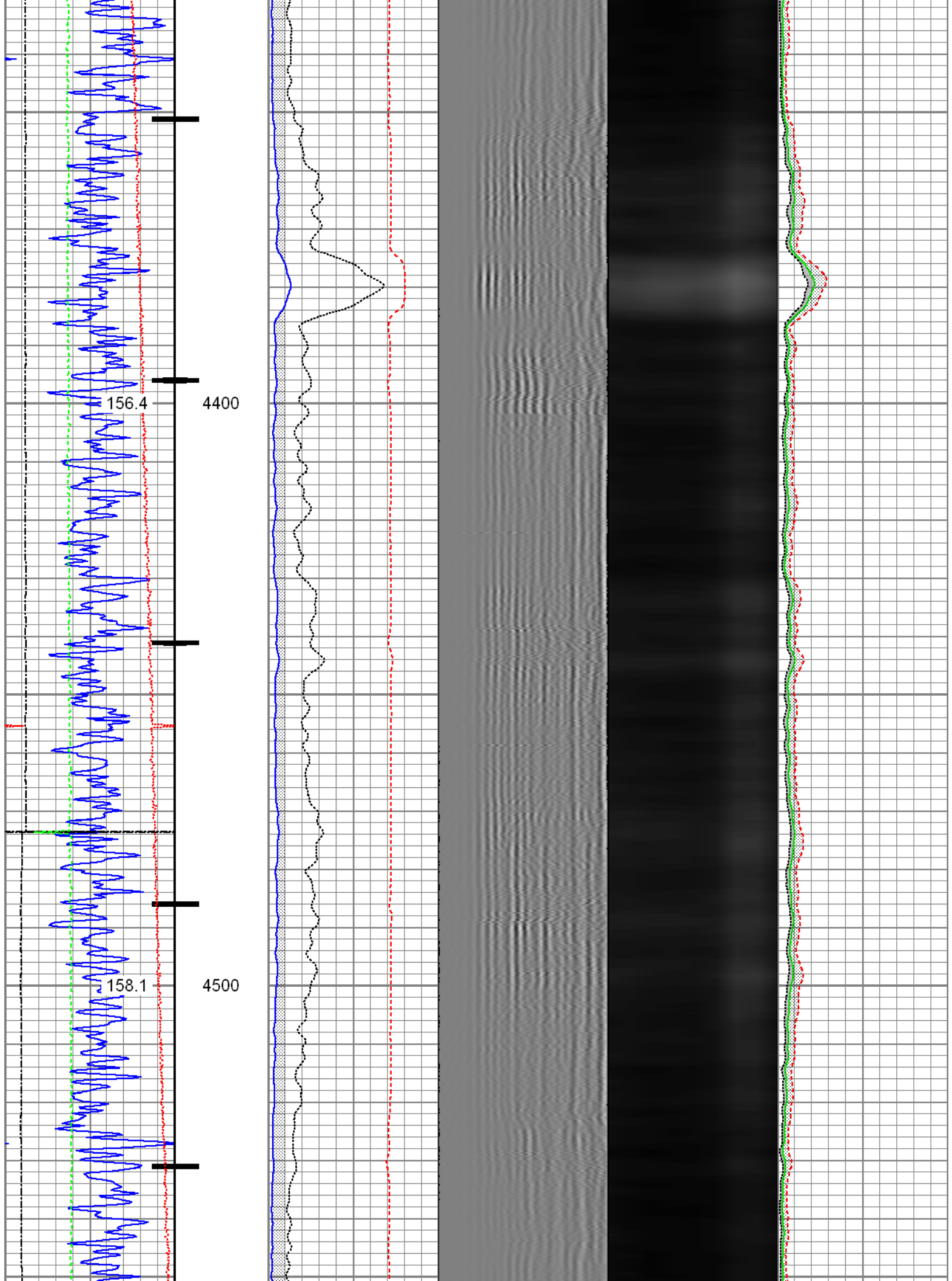


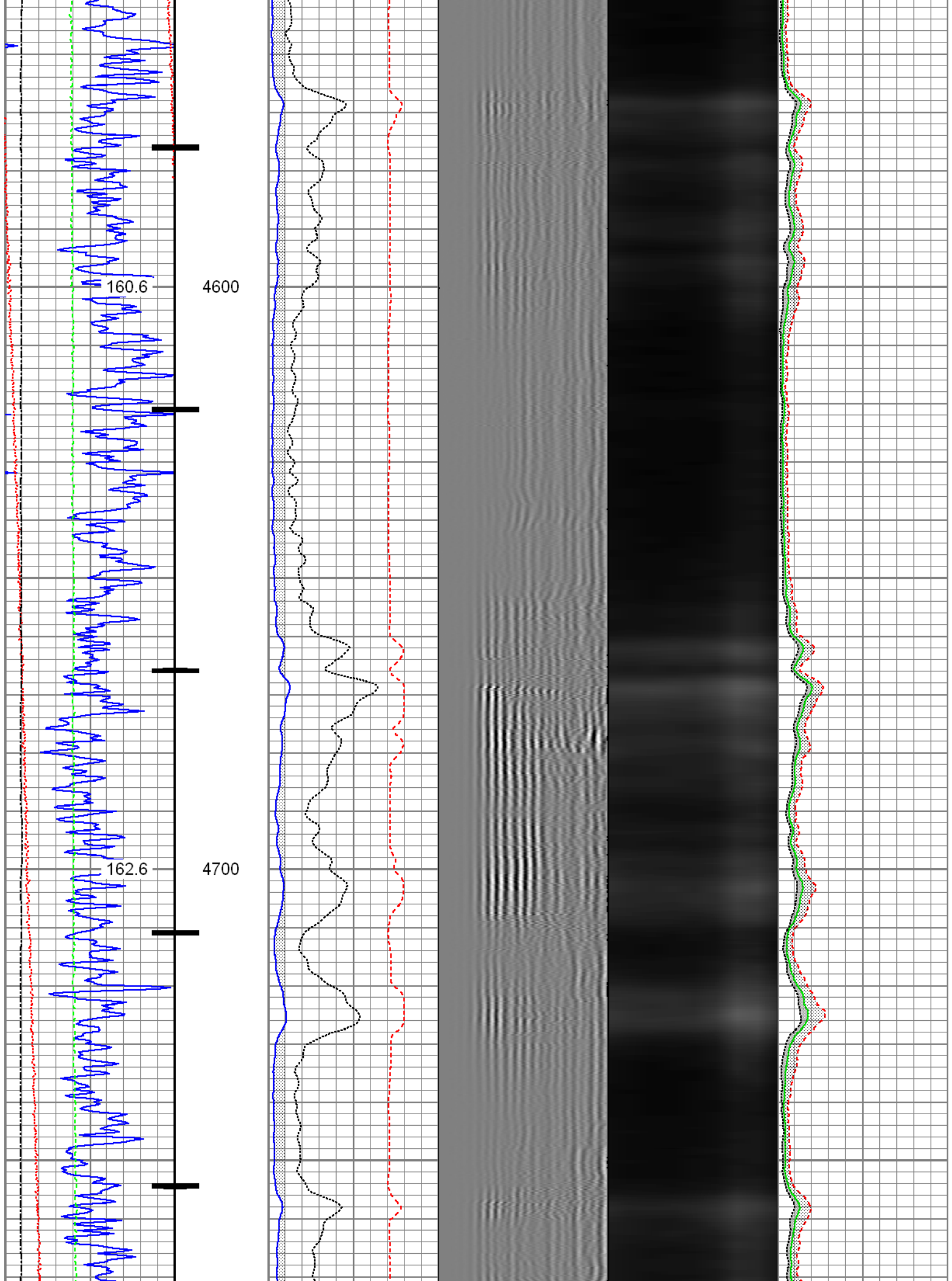


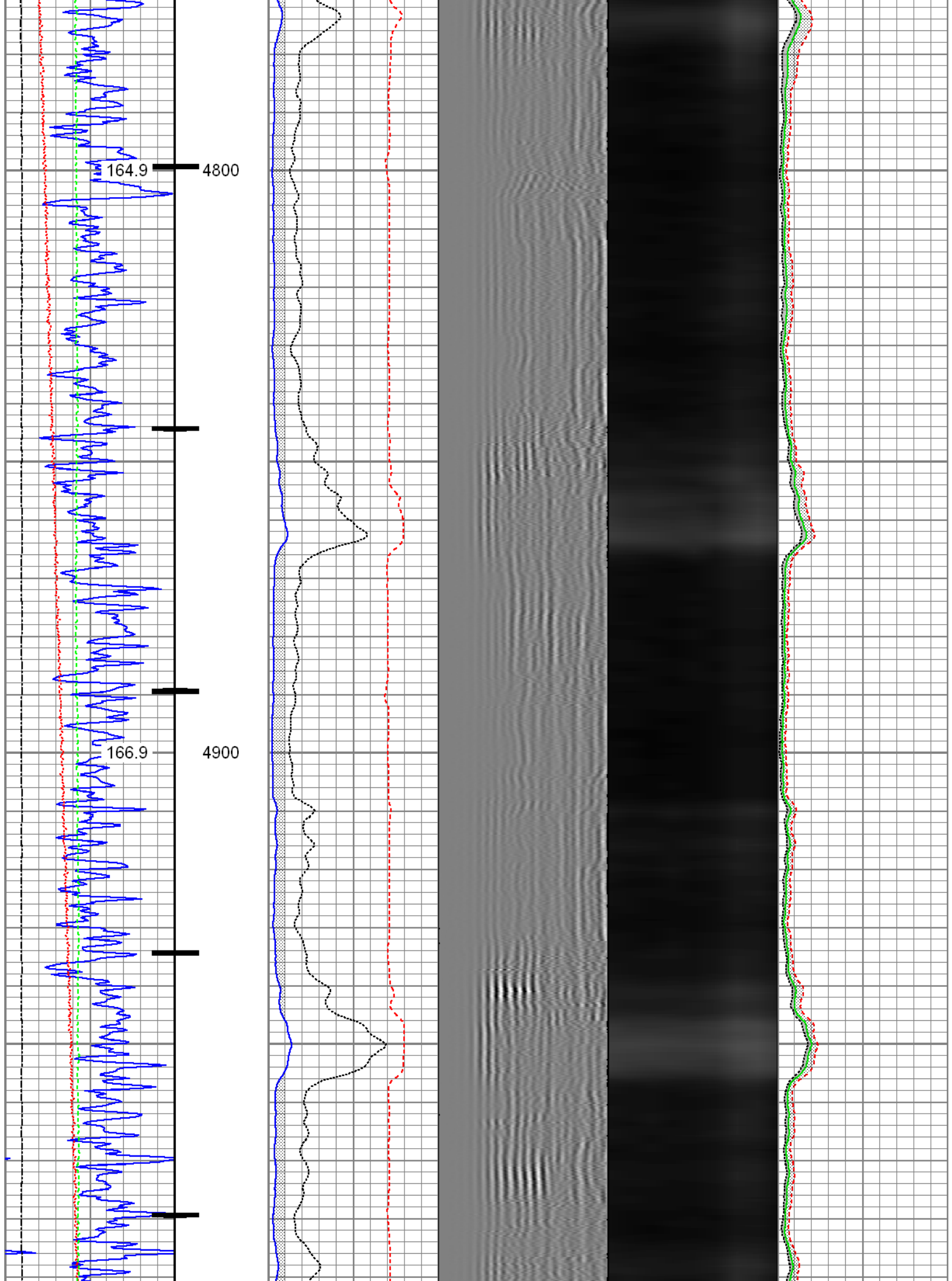


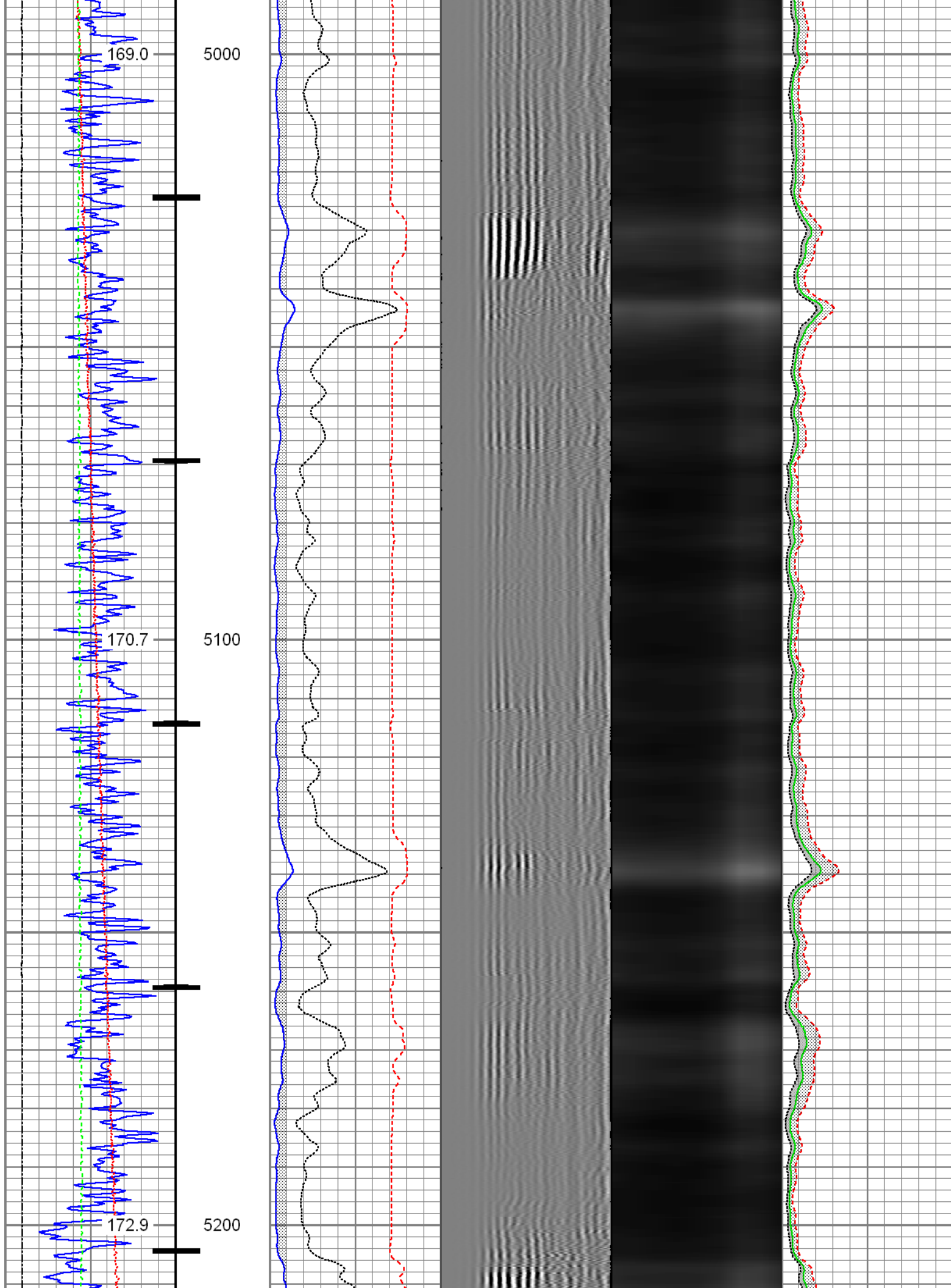


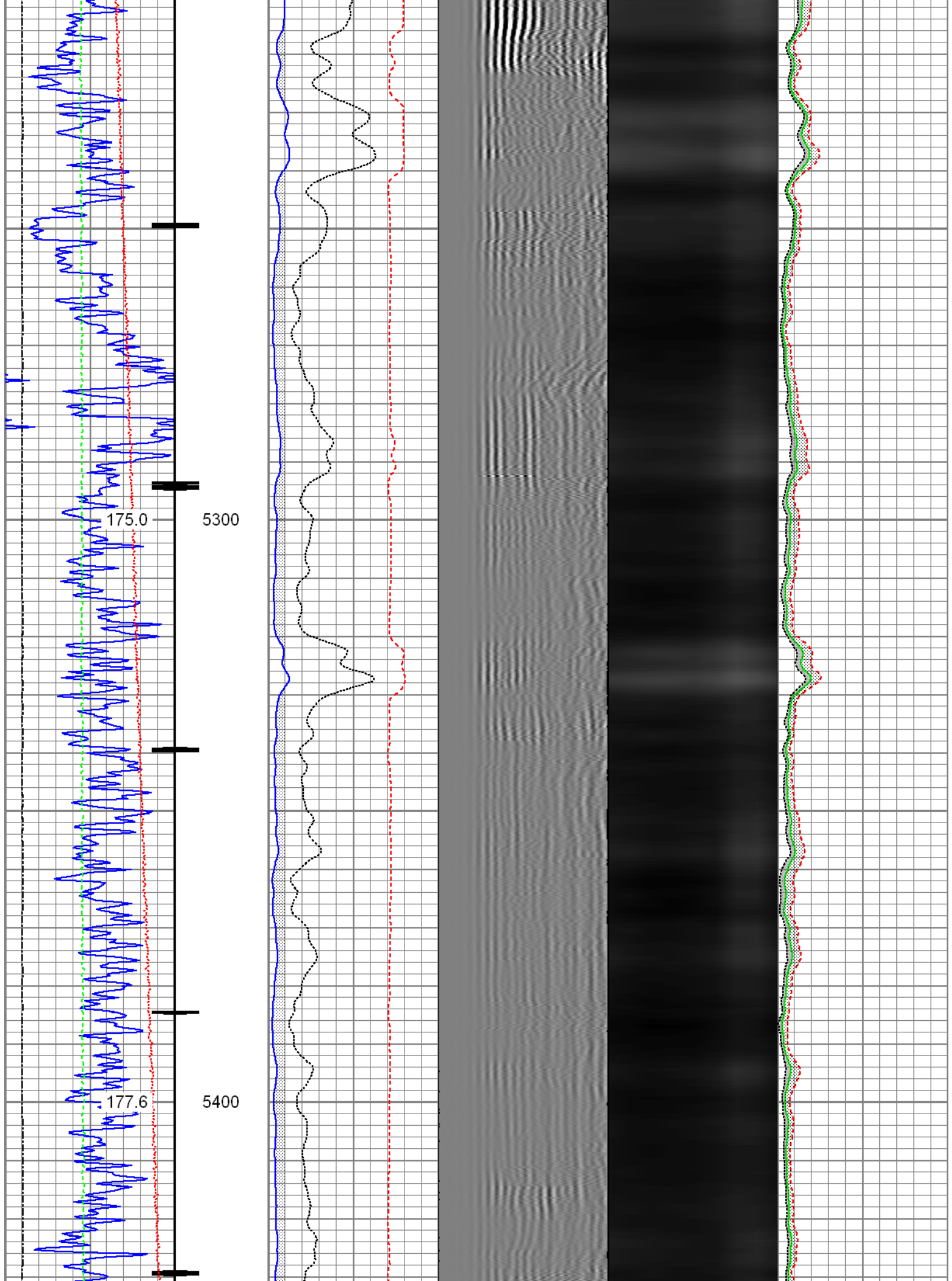


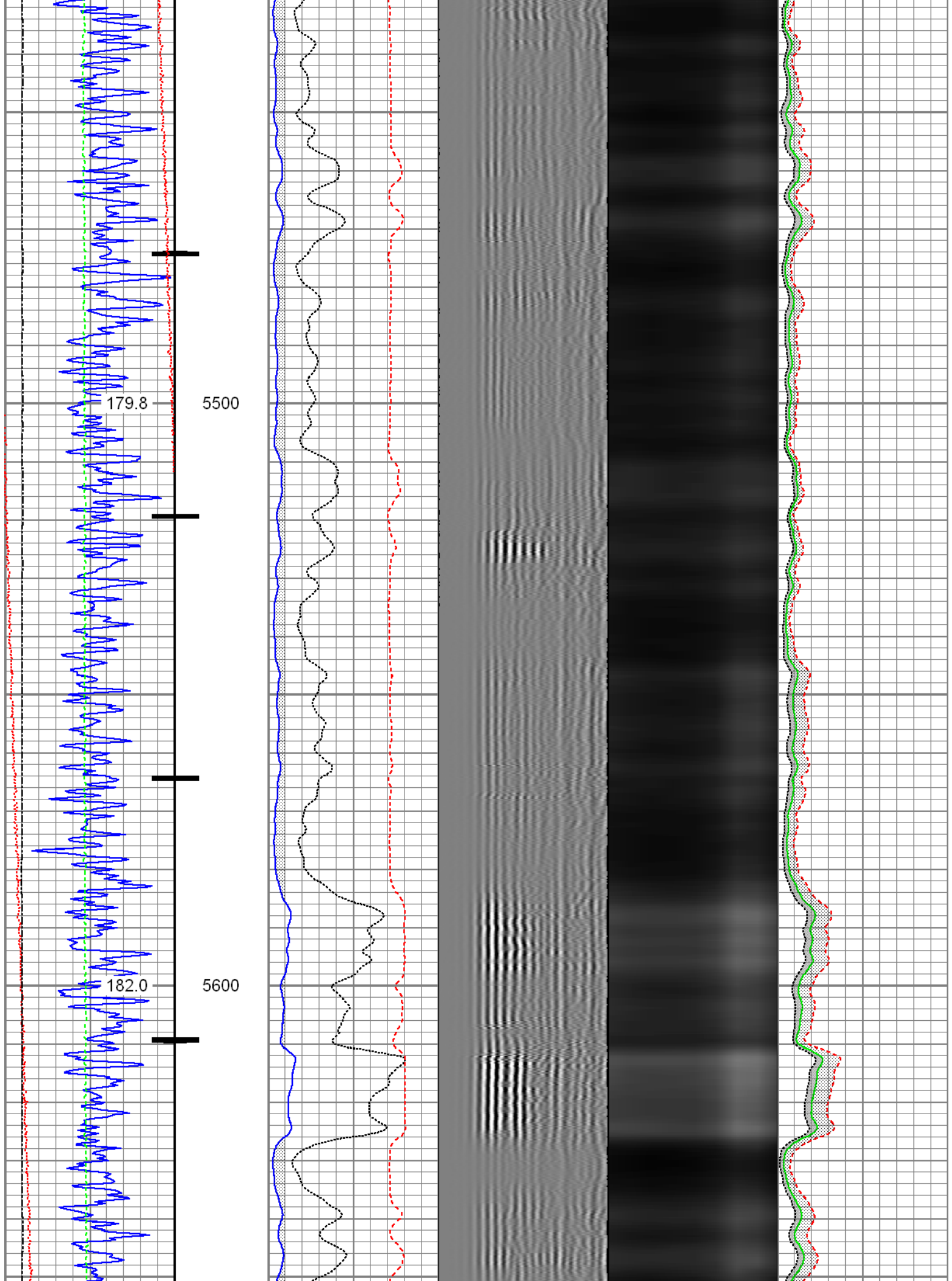


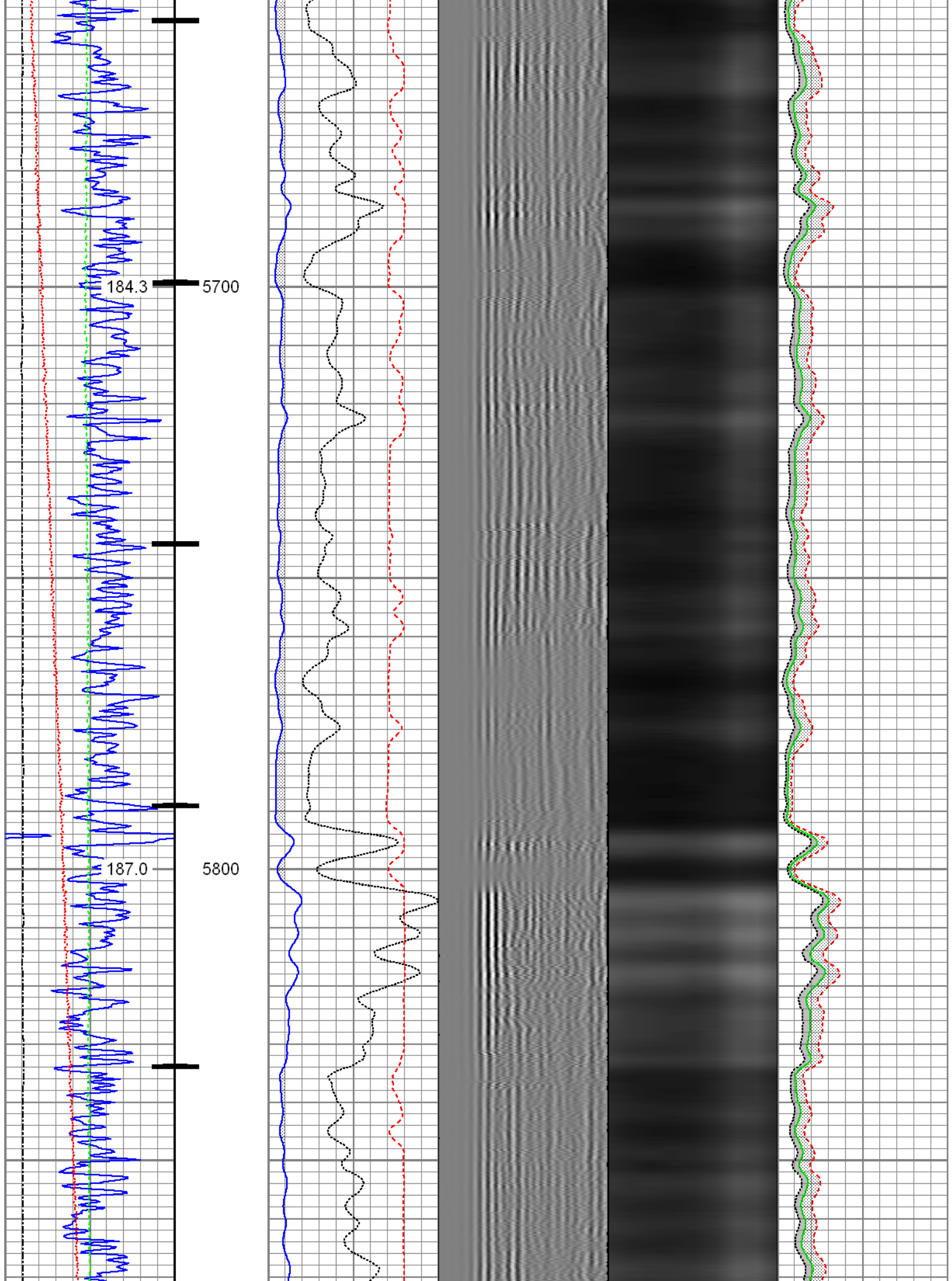


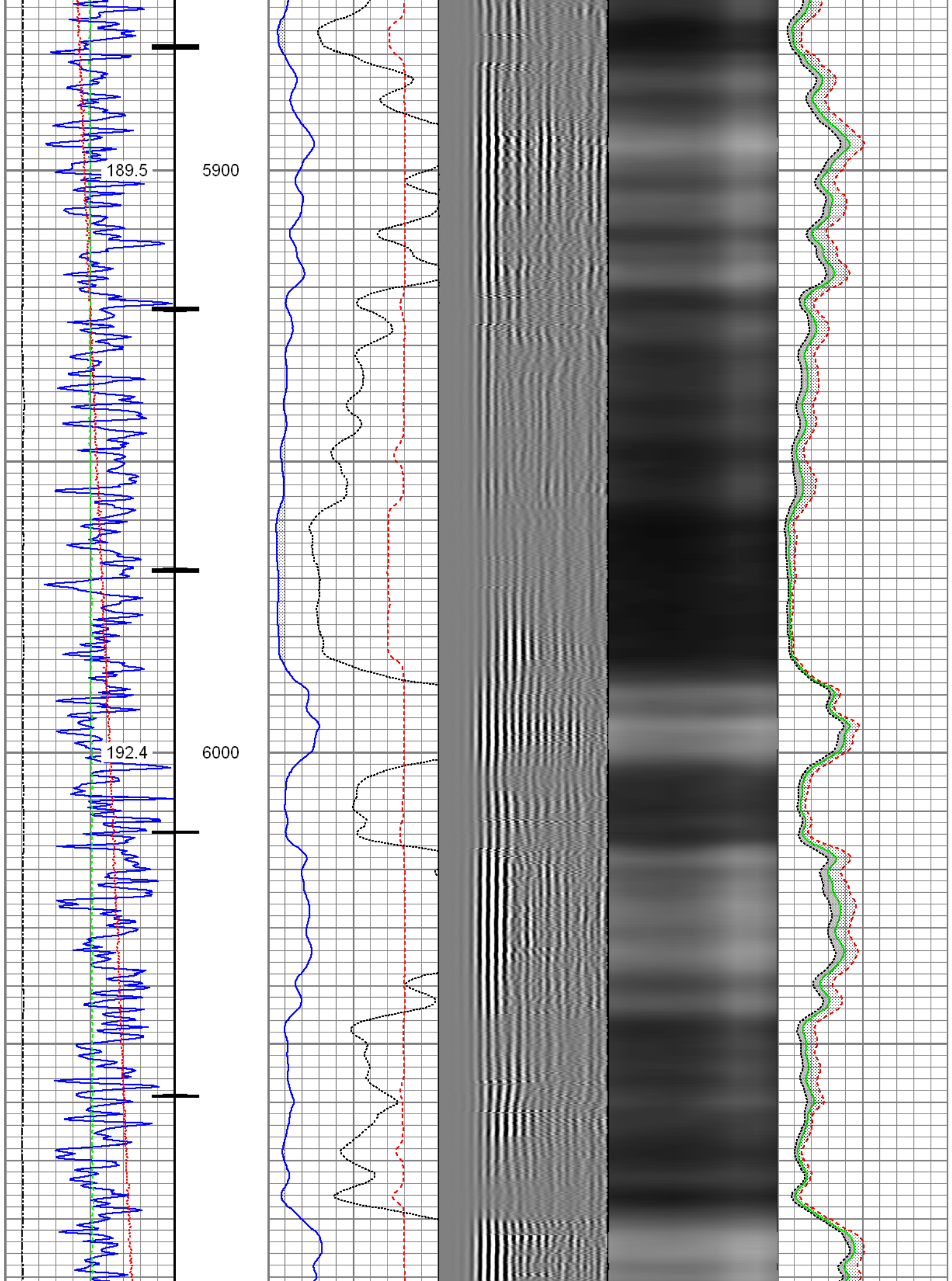


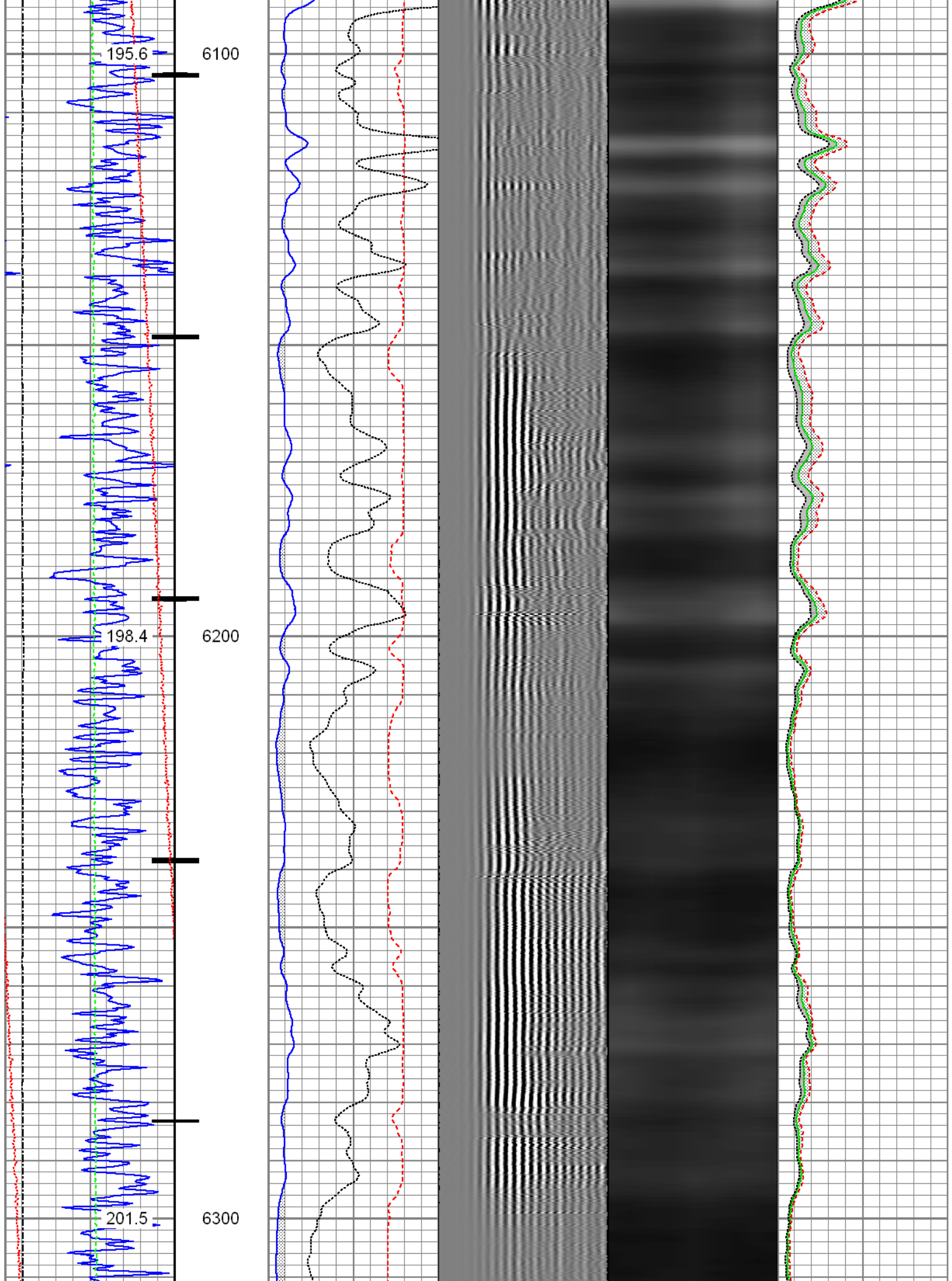


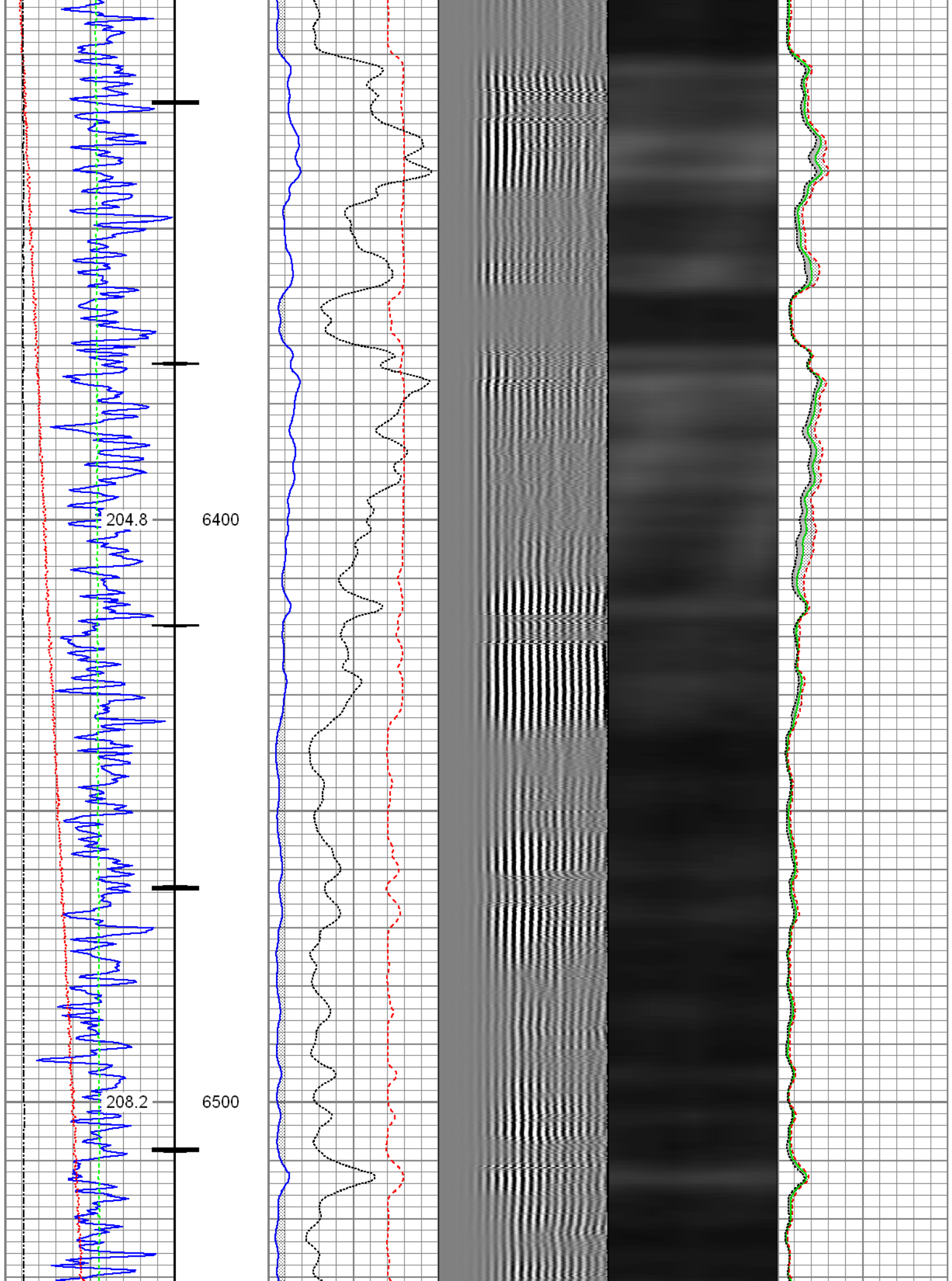


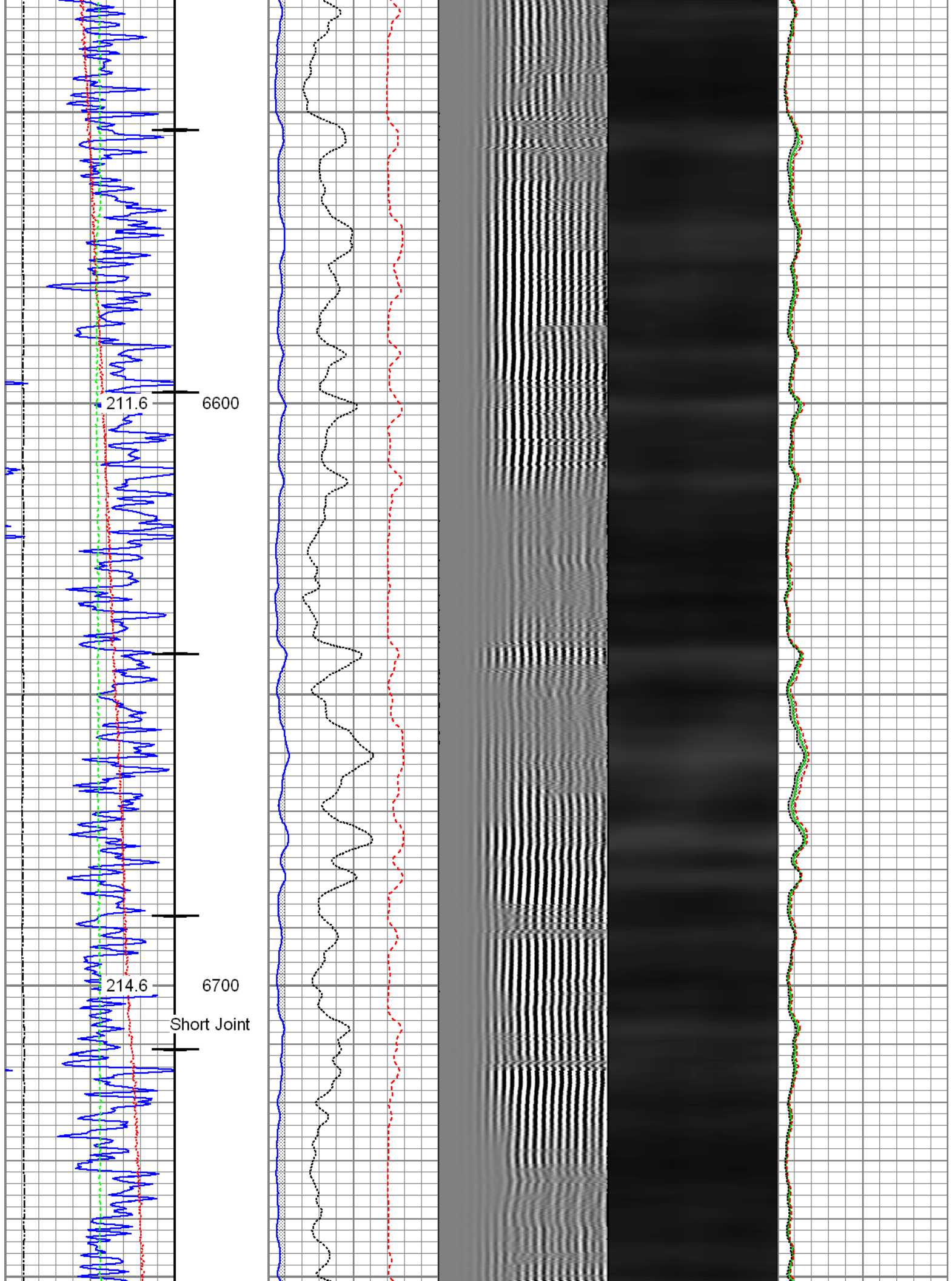


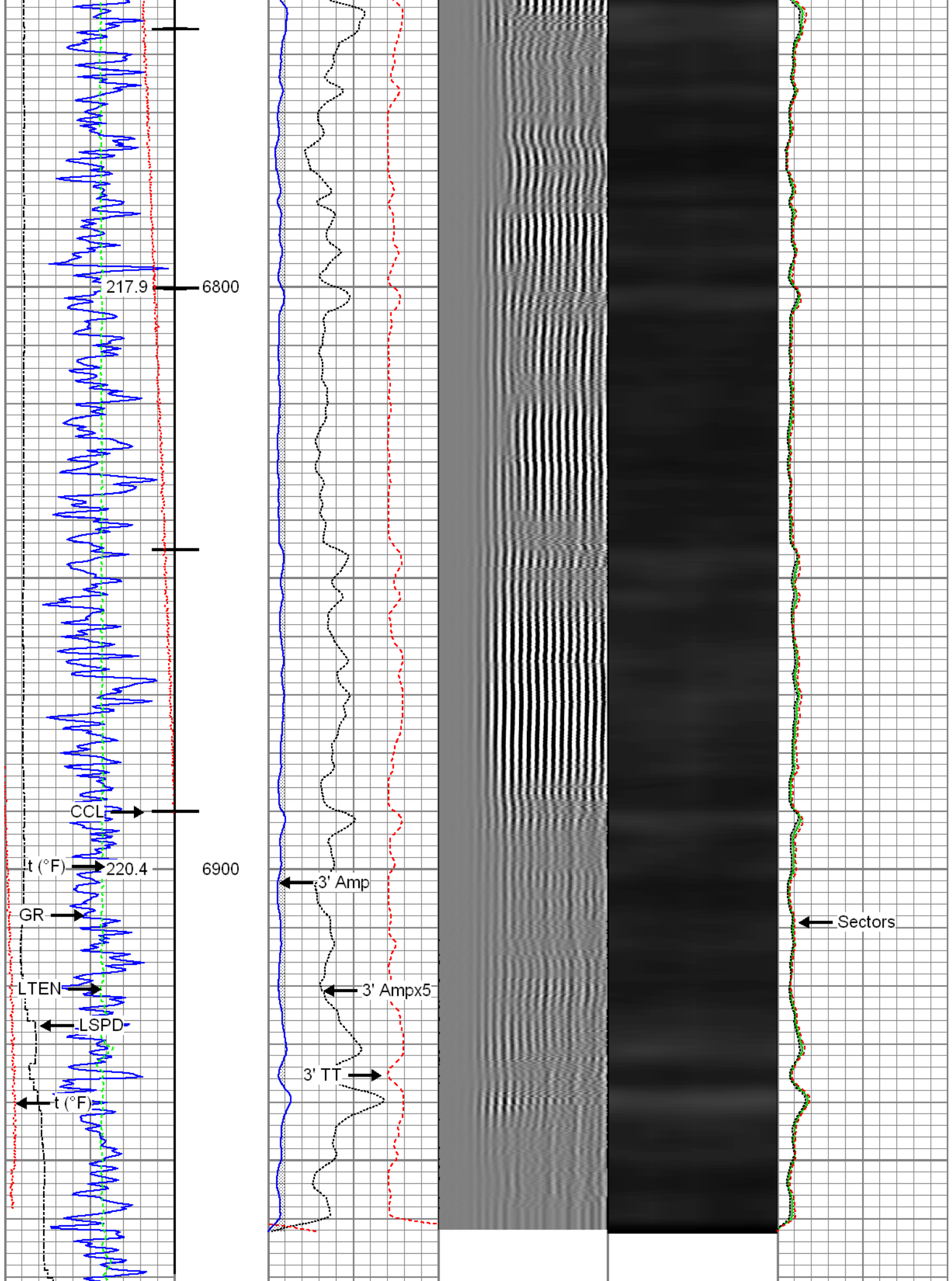


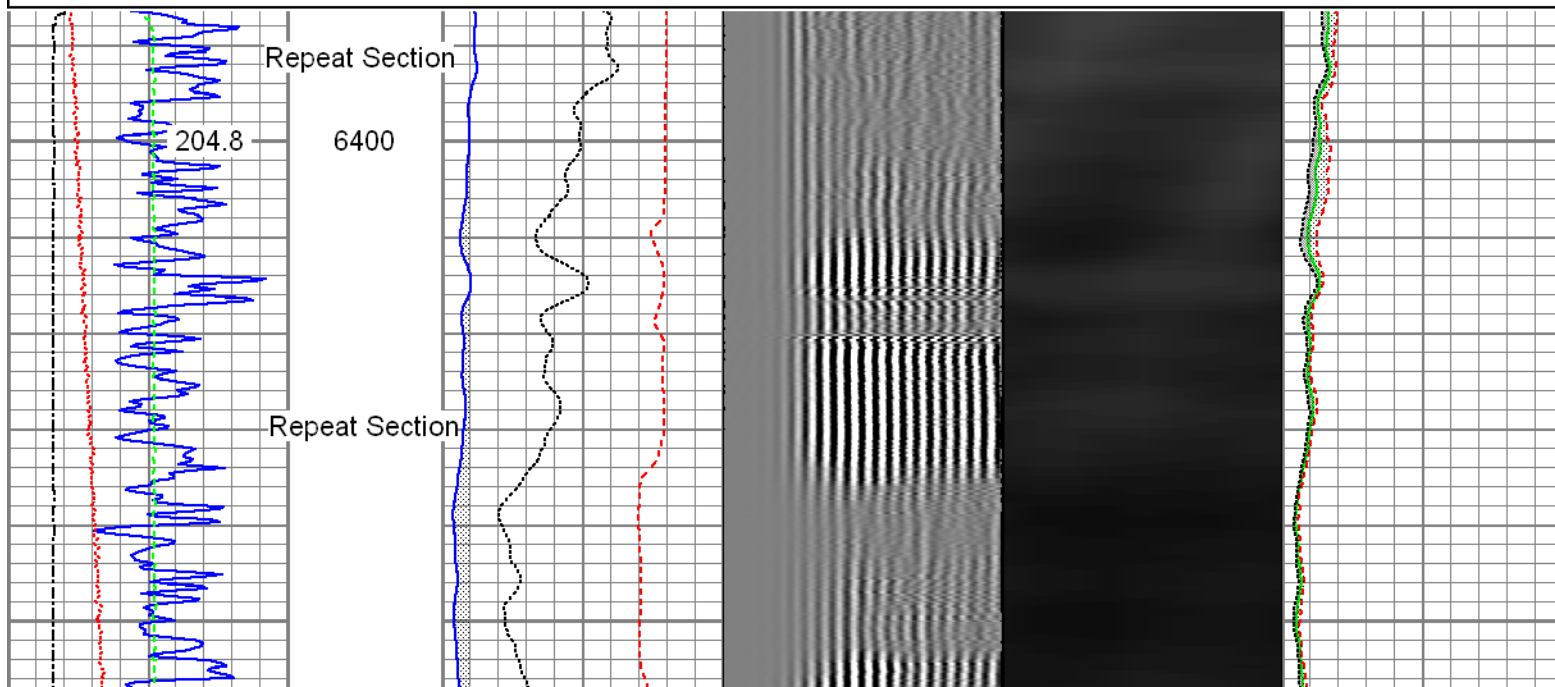
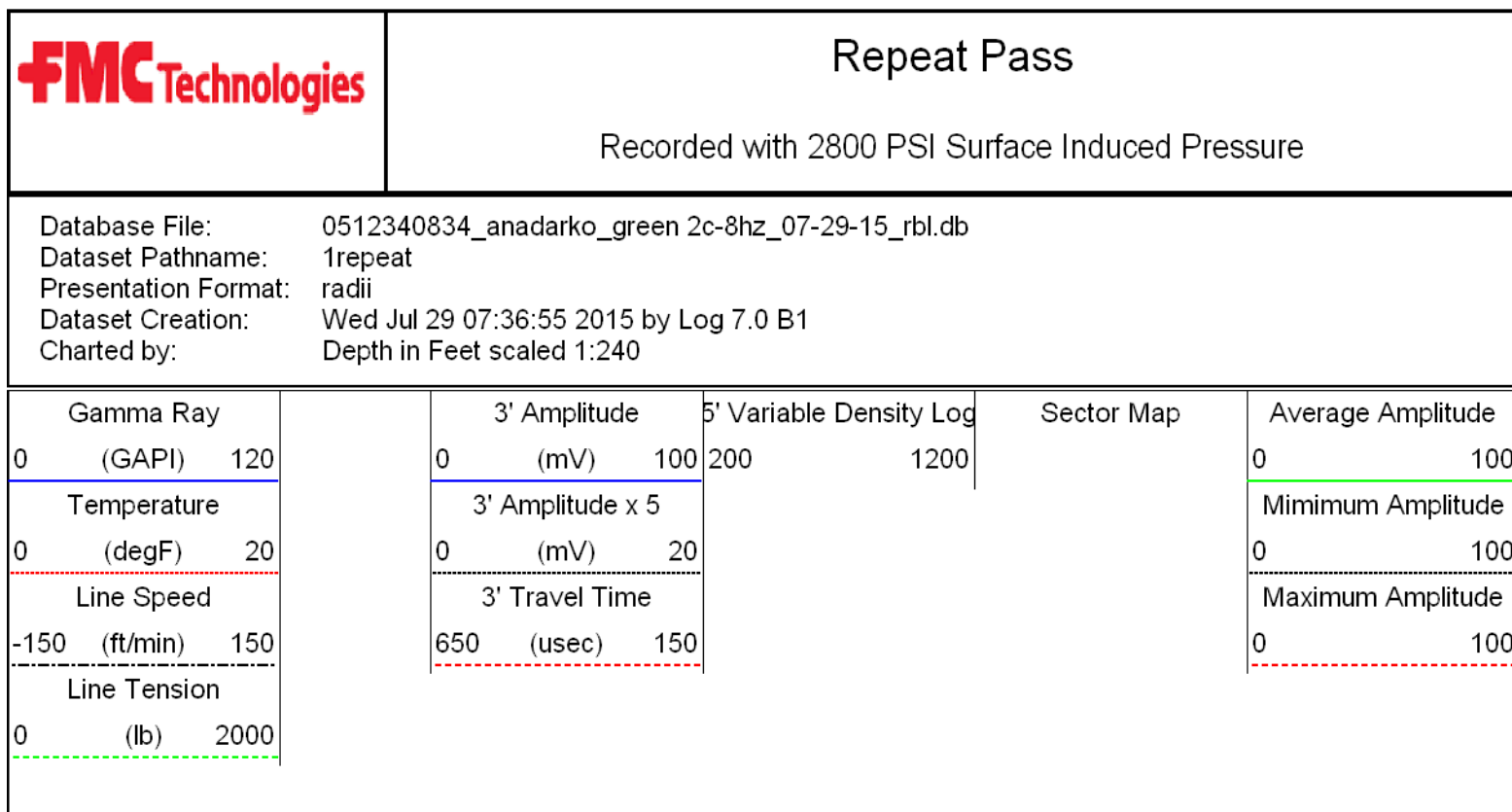
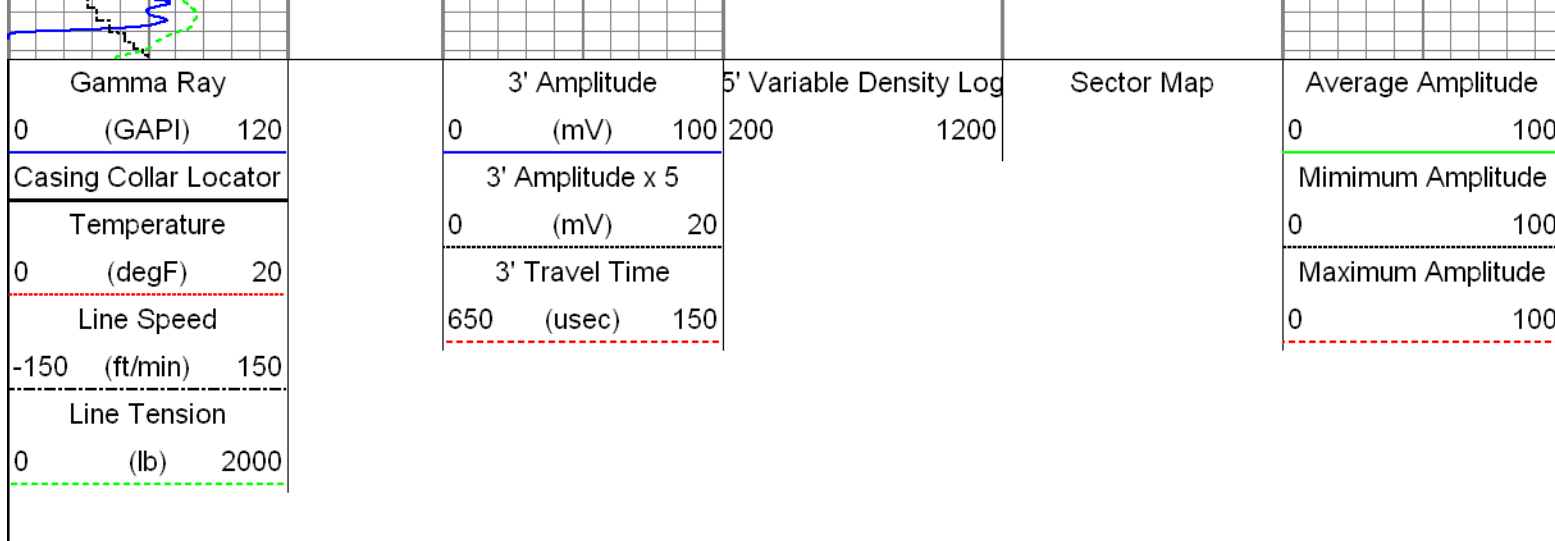


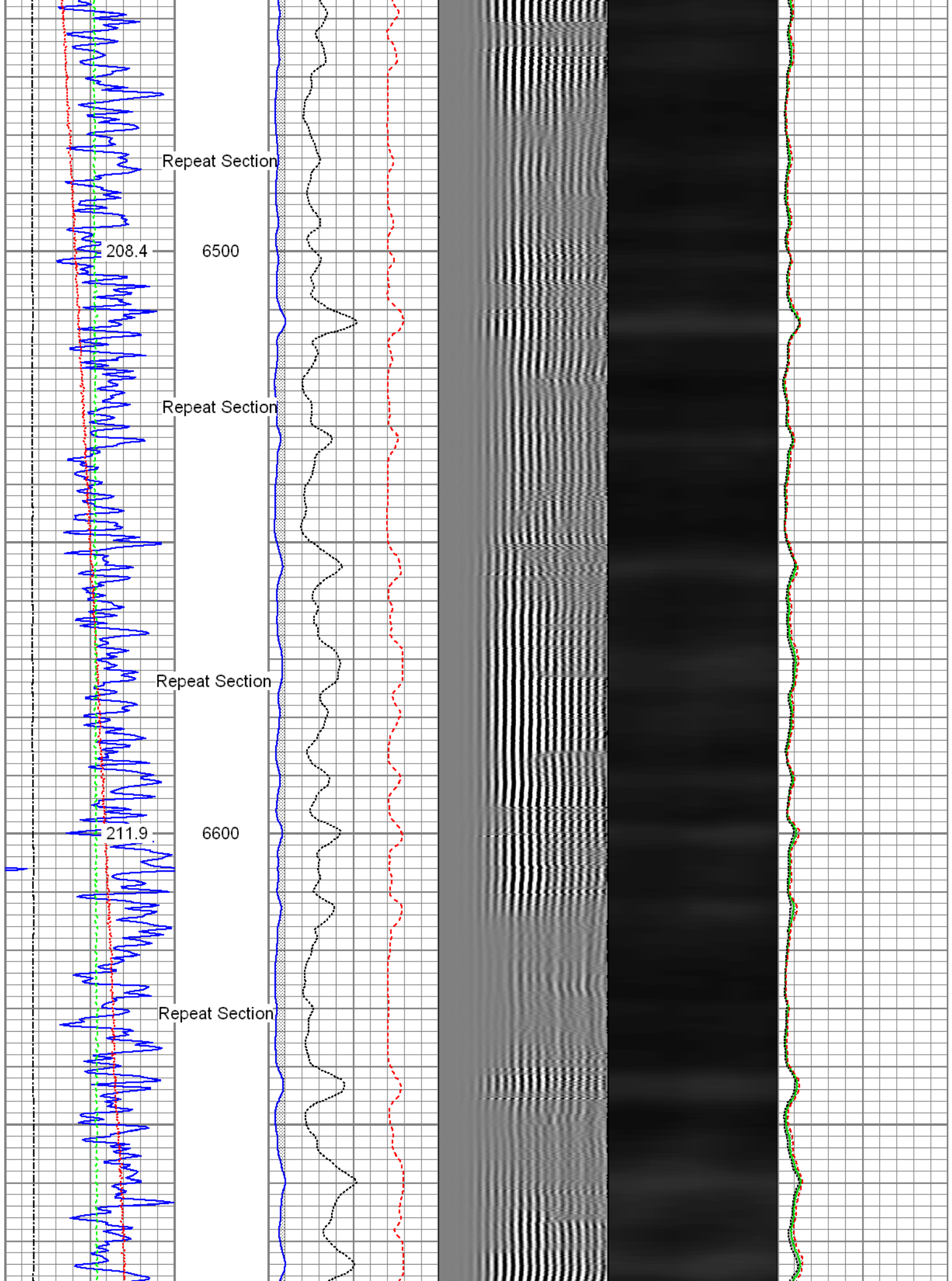


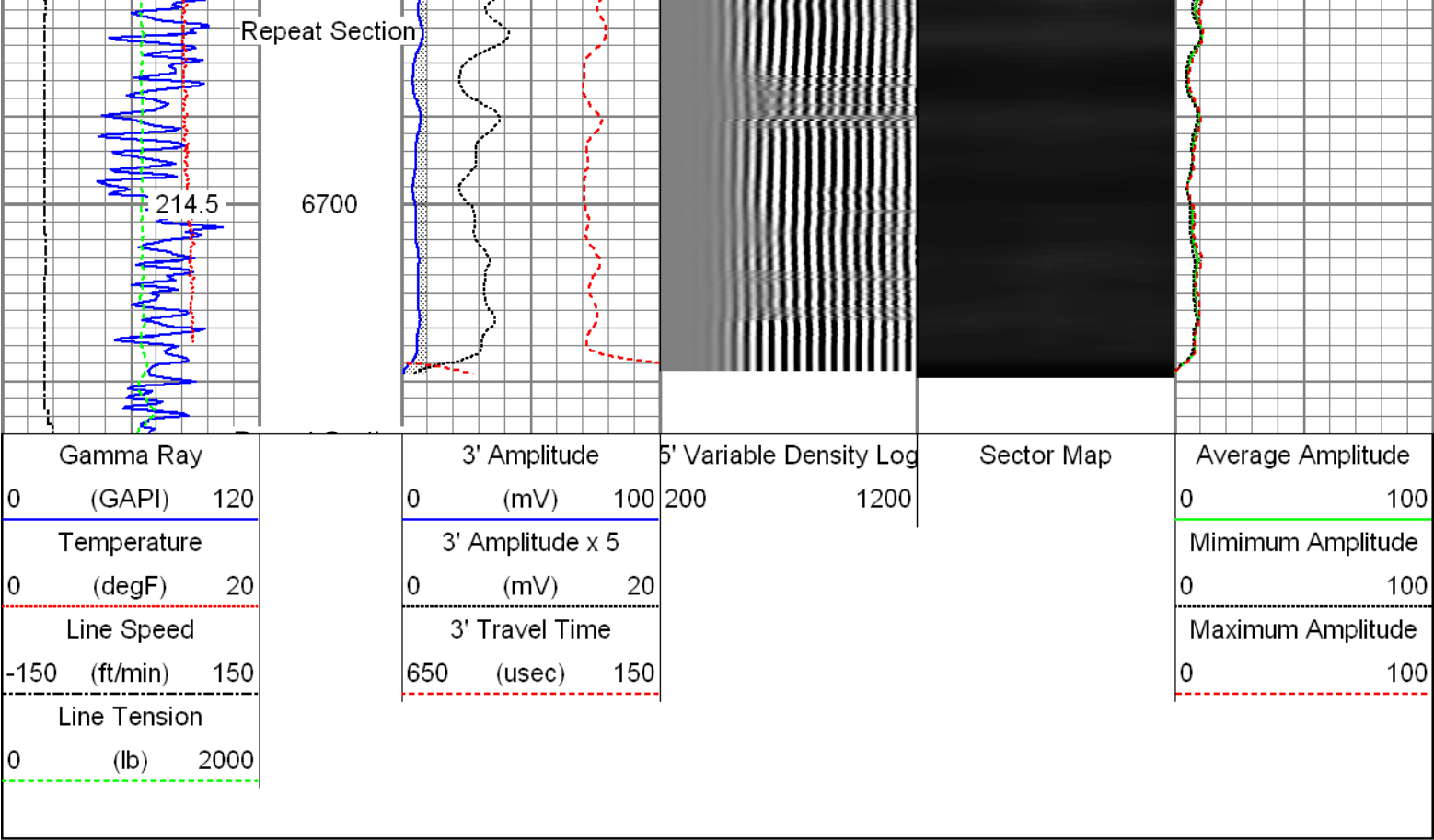













Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
HeadVolt	20.94		T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Temp	18.17					
WVF3FT	16.00		Probe_RADII-C-2-3/4" (FW1302-001) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00
WVFCAL	16.00					
WVFS1	16.00					
WVFS2	16.00					
WVFS3	16.00					
WVFS4	16.00					
WVFS5	16.00					
WVFS6	16.00					
WVFS7	16.00					
WVFS8	16.00					
WVF5FT	15.00					

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Calibration Report		
Database File:	0512340834_anadarko_green 2c-8hz_07-29-15_rbl.db	
Dataset Pathname:	main.1	
Dataset Creation:	Wed Jul 29 10:54:29 2015 by Calc 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:	6709.551	ft

Master Calibration, performed Wed Jul 29 10:53:35 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.005	0.518	0.800	71.921	138.757	0.098


CAL	0.002	0.730	0.000	71.921	150.866	0.236
5'	0.004	0.475	0.000	100.000	199.764	-0.001
SUM						
S1	0.003	0.499	0.000	100.000	201.464	-0.601
S2	0.004	0.511	0.000	100.000	197.101	-0.776
S3	0.006	0.526	0.000	100.000	192.052	-1.072
S4	0.005	0.529	0.000	100.000	190.742	-0.960
S5	0.004	0.532	0.000	100.000	189.639	-0.831
S6	0.005	0.527	0.000	100.000	191.493	-0.967
S7	0.003	0.516	0.000	100.000	195.175	-0.627
S8	0.005	0.513	0.000	100.000	196.904	-1.011

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 07:34:51 2015:

	Raw (v)		Calibrated (v)		Results
	Zero		Zero		Offset
3'	0.001		0.000		0.001
5'	0.003		0.000		-0.001
SUM					
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	0.002		0.000		-0.000
S7	0.002		0.000		-0.001
S8	0.002		0.000		-0.000

	Company	Kerr-McGee Oil & Gas Onshore, L.P.
	Well	Green 2C-8HZ
	Field	Wattenberg
	County	Weld
	State	Colorado