



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company SRC Energy Inc		Well Ag 31N-31B-L		Field Wattenberg		County Weld		State Colorado							
Location:		API # : 05-123-44875		Other Services JB/GR RBP											
Permanent Datum		SEC 32 TWP 6N RGE 66W		Ground Level		Elevation		4706'							
Log Measured From		Ground Level		0 FT		Elevation		K.B. 4726' D.F. 4725' G.L. 4706'							
Drilling Measured From		Kelly Bushing													
Date		28-OCT-2017													
Run Number		Two													
Depth Driller		18434 FT													
Depth Logger		6430 FT													
Bottom Logged Interval		6425 FT													
Top Log Interval		Surface													
Open Hole Size		---													
Type Fluid		Water													
Density / Viscosity		8.34 lb/gal													
Max. Recorded Temp.		215°F													
Estimated Cement Top		See Log													
Time Well Ready		ROA													
Time Logger on Bottom		14:45													
Equipment Number		HD-0324													
Location		Fort Lupton, CO													
Recorded By		Jason Morrison													
Witnessed By		Brian Moore													
Run Number		Bit		From		To		Size (in)		Weight (lb/ft)		From		To	
Casing Record		Size (in)		Wgt (lb/ft)		Grade		Top		Bottom					
Surface Casing		9 5/8		36		---		Surface		1700 FT					
Intermediate #1		5 1/2		20		P-110		Surface		18416 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 Marker Joint reported at 6172 FT
Log ran from 6430 FT to Surface
Adjusted Log -14 FT to correlate with Marker Joint
Log ran with 2000 PSI Surface Induced Pressure
Logging tools came out clean and free of debris upon completion of operations

Thank you for choosing Reliance Oilfield Services, LLC!!

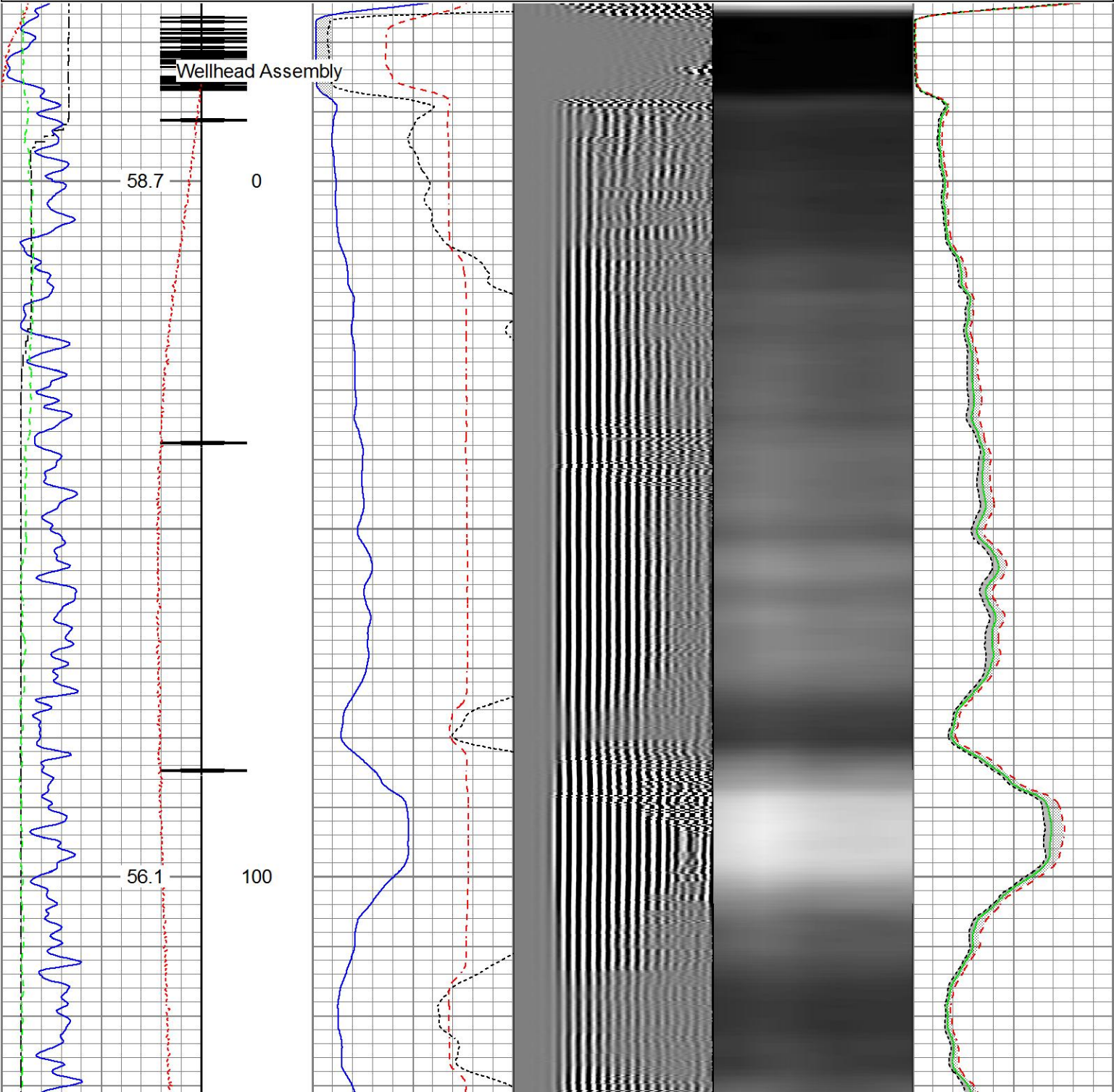


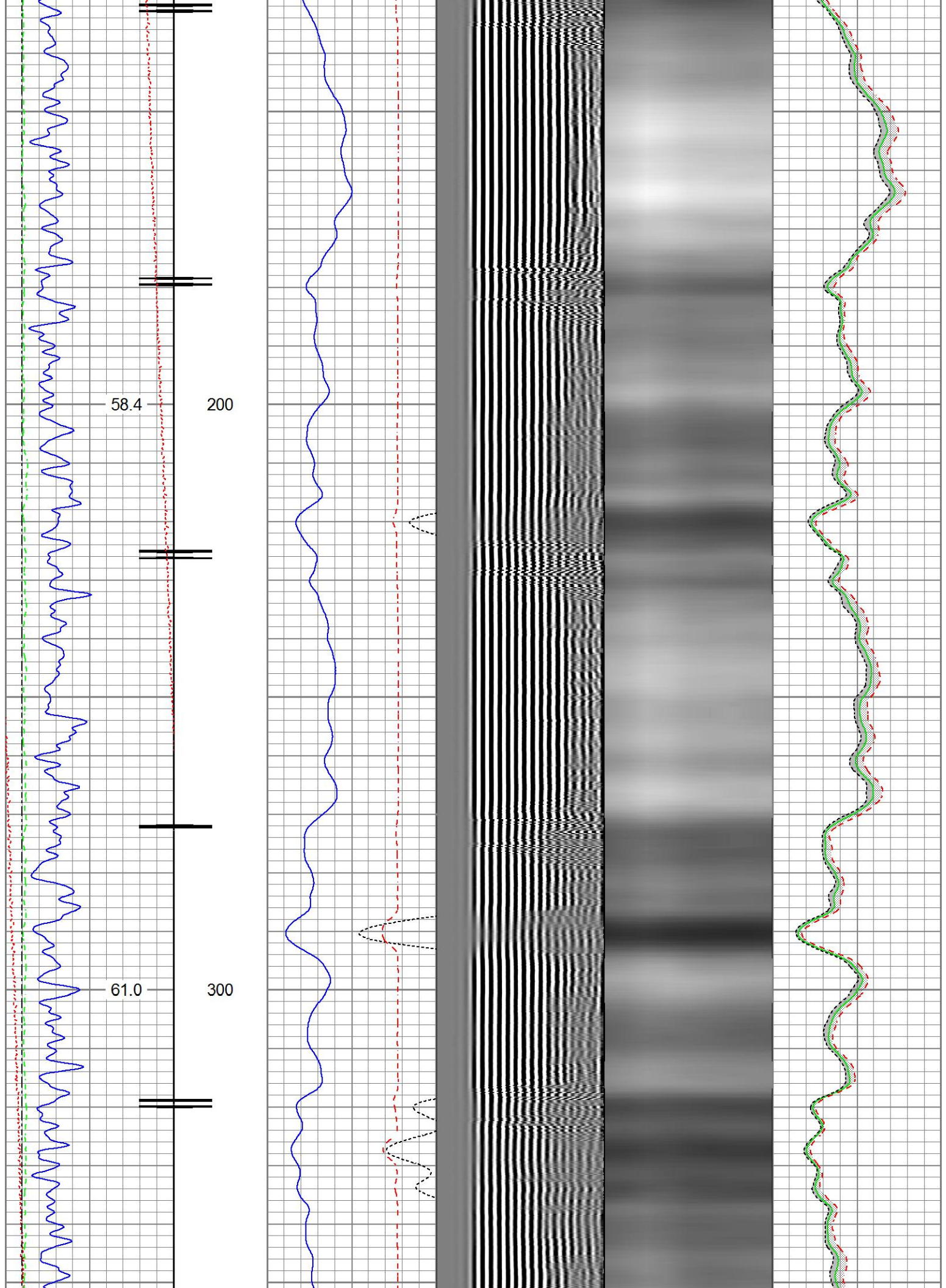
Main Pass

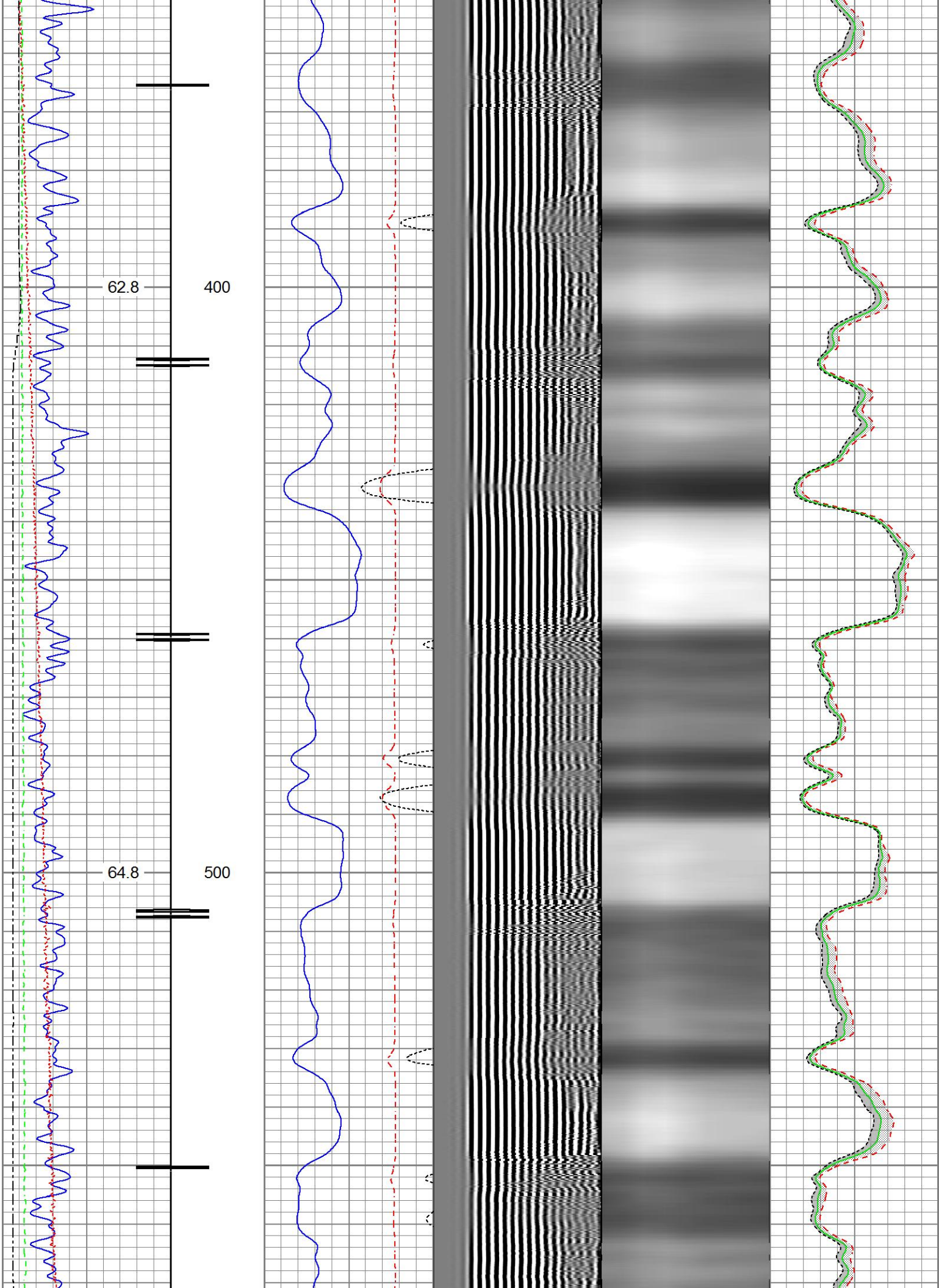
Recorded With 2000 PSI Surface Induced Pressure

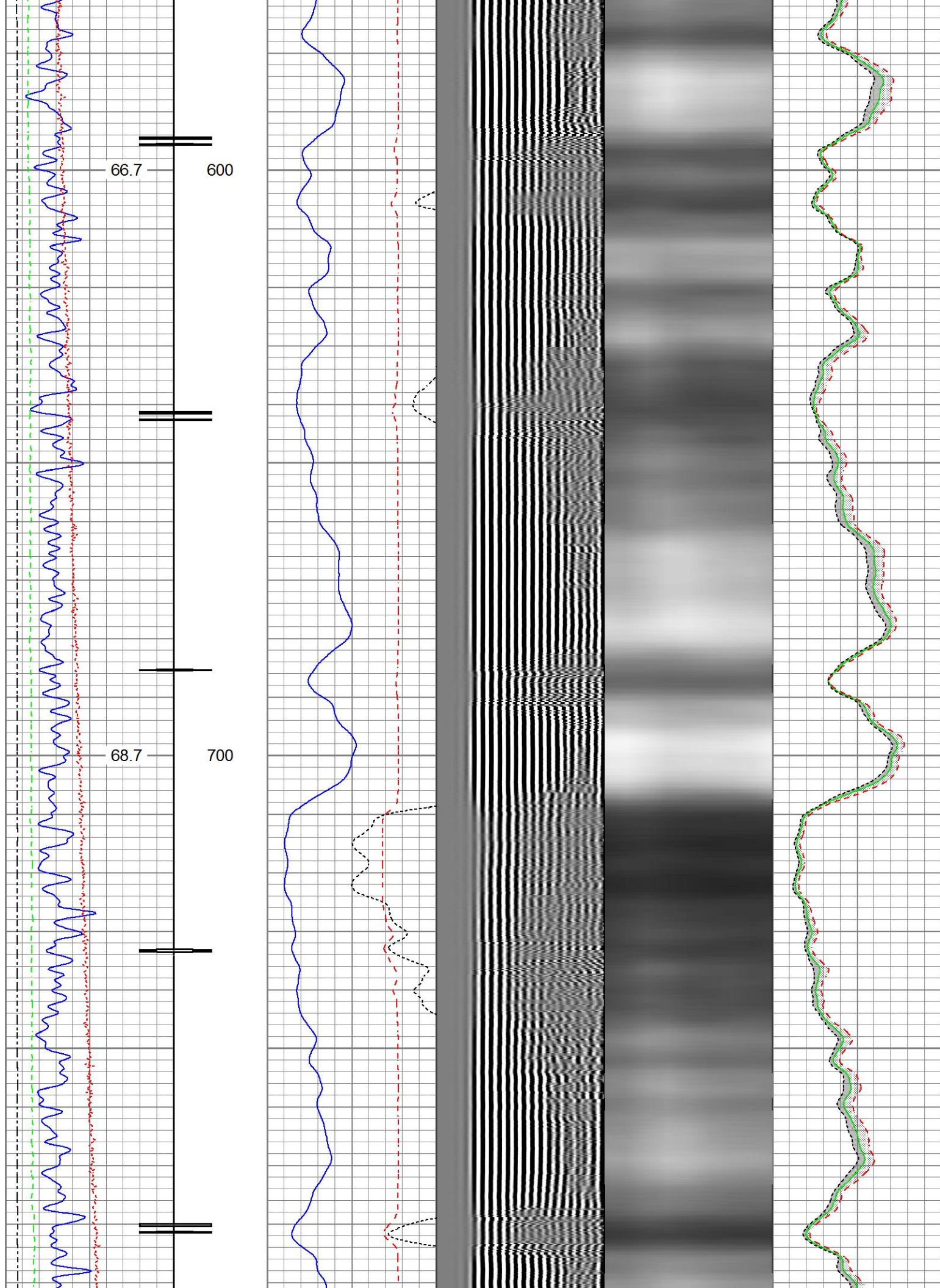
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Dataset Pathname	Main.2
Presentation Format	ros_radri
Dataset Creation	Wed Nov 01 05:16:33 2017
Charted by	Depth in Feet scaled 1:240

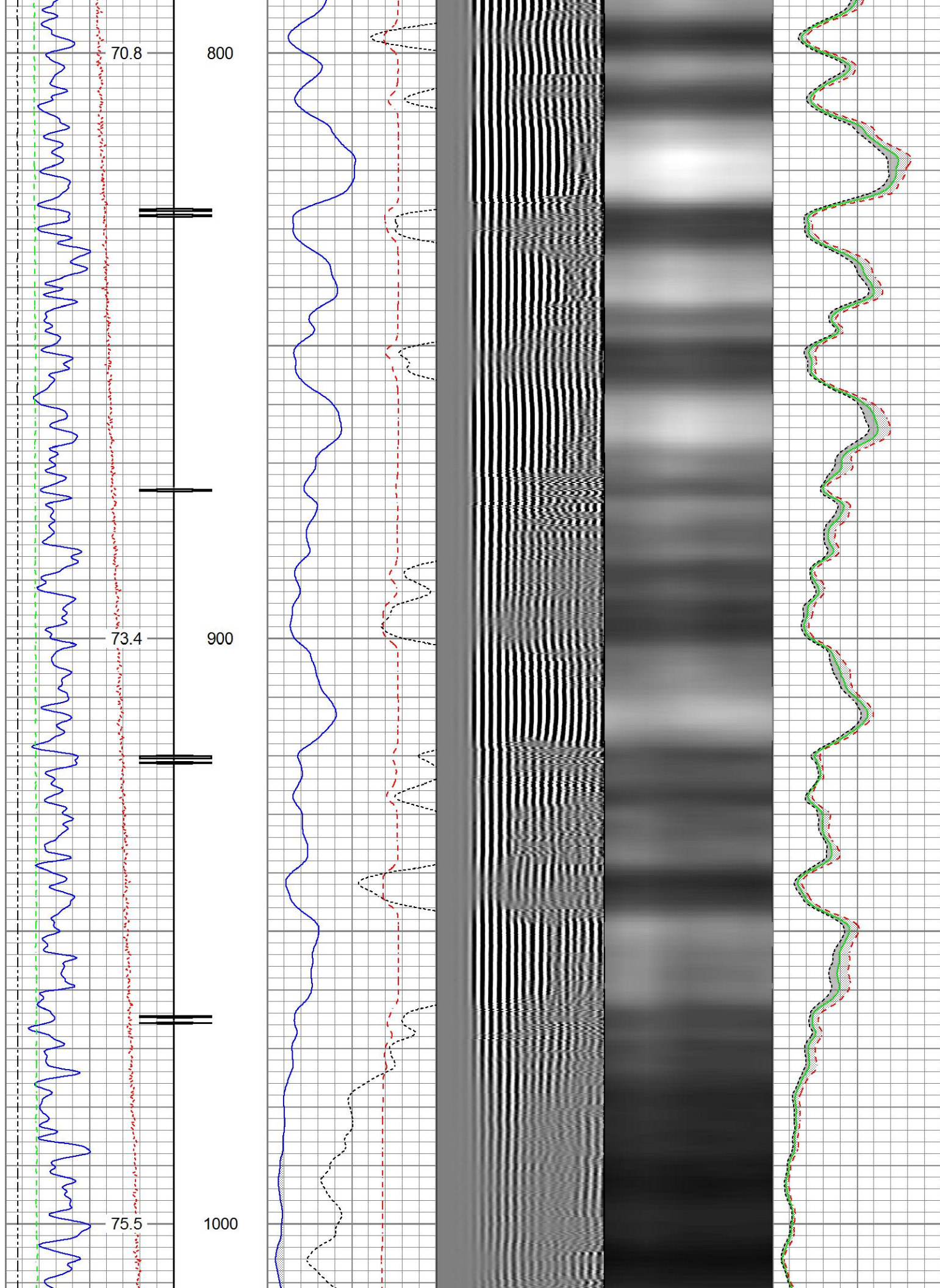
Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120		0 (mV) 100	200 1200		0 100
Casing Collar Locator		3' Amplitude x 5			Minimum Amplitude
Temperature		0 (mV) 20			0 100
0 (degF) 20		3' Travel Time			Maximum Amplitude
Line Speed		650 (usec) 150			0 100
-150 (ft/min)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

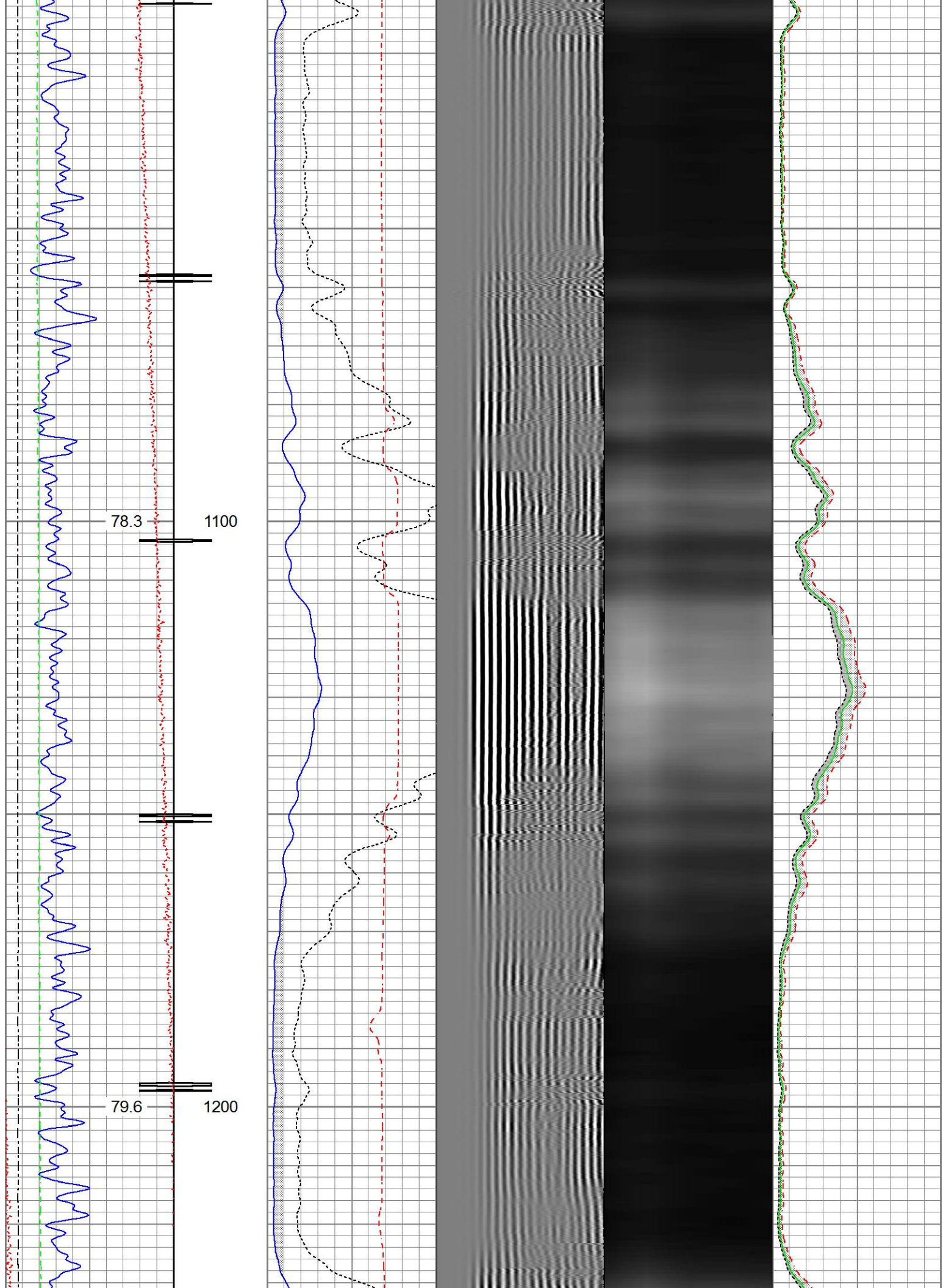


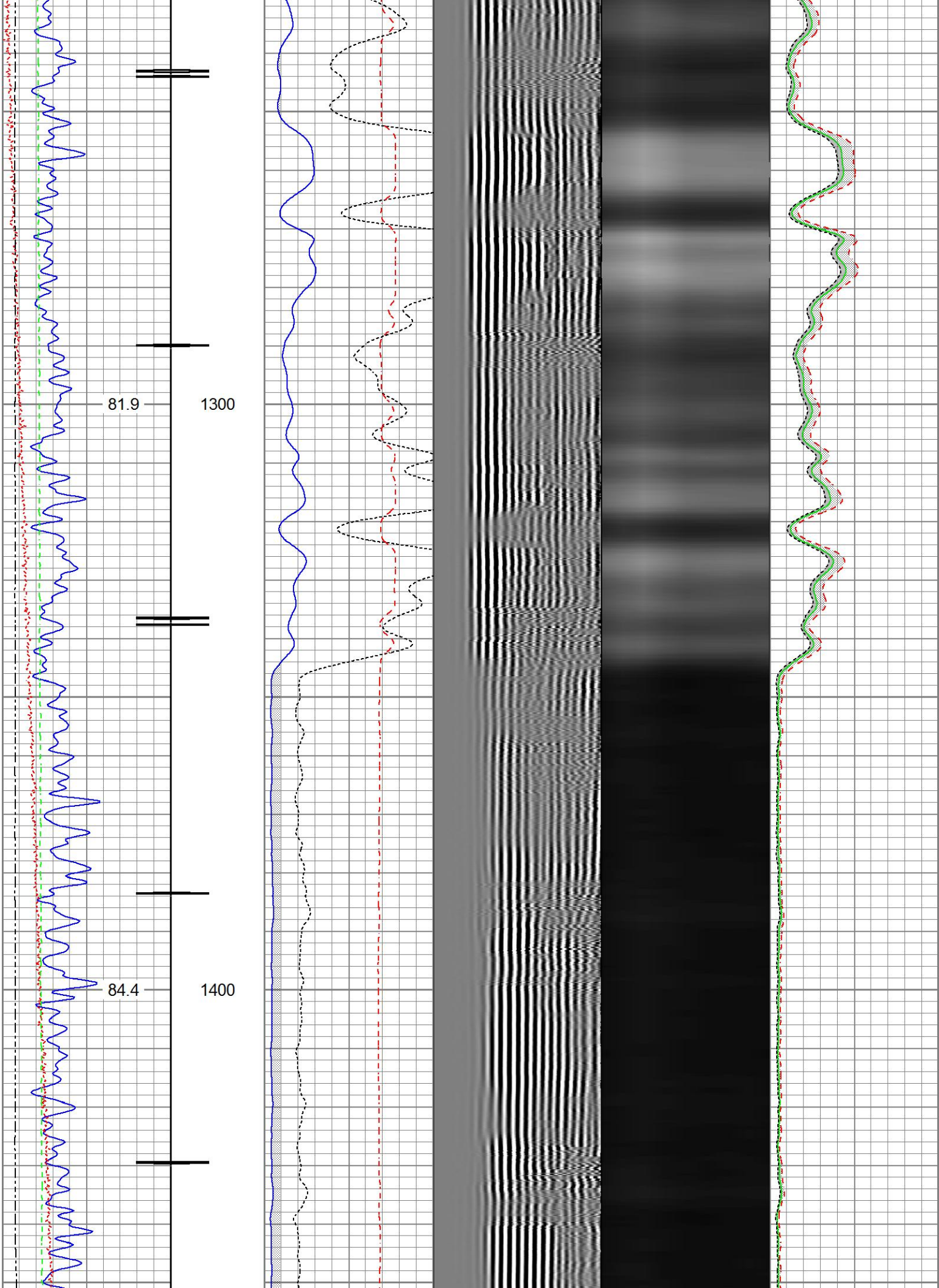


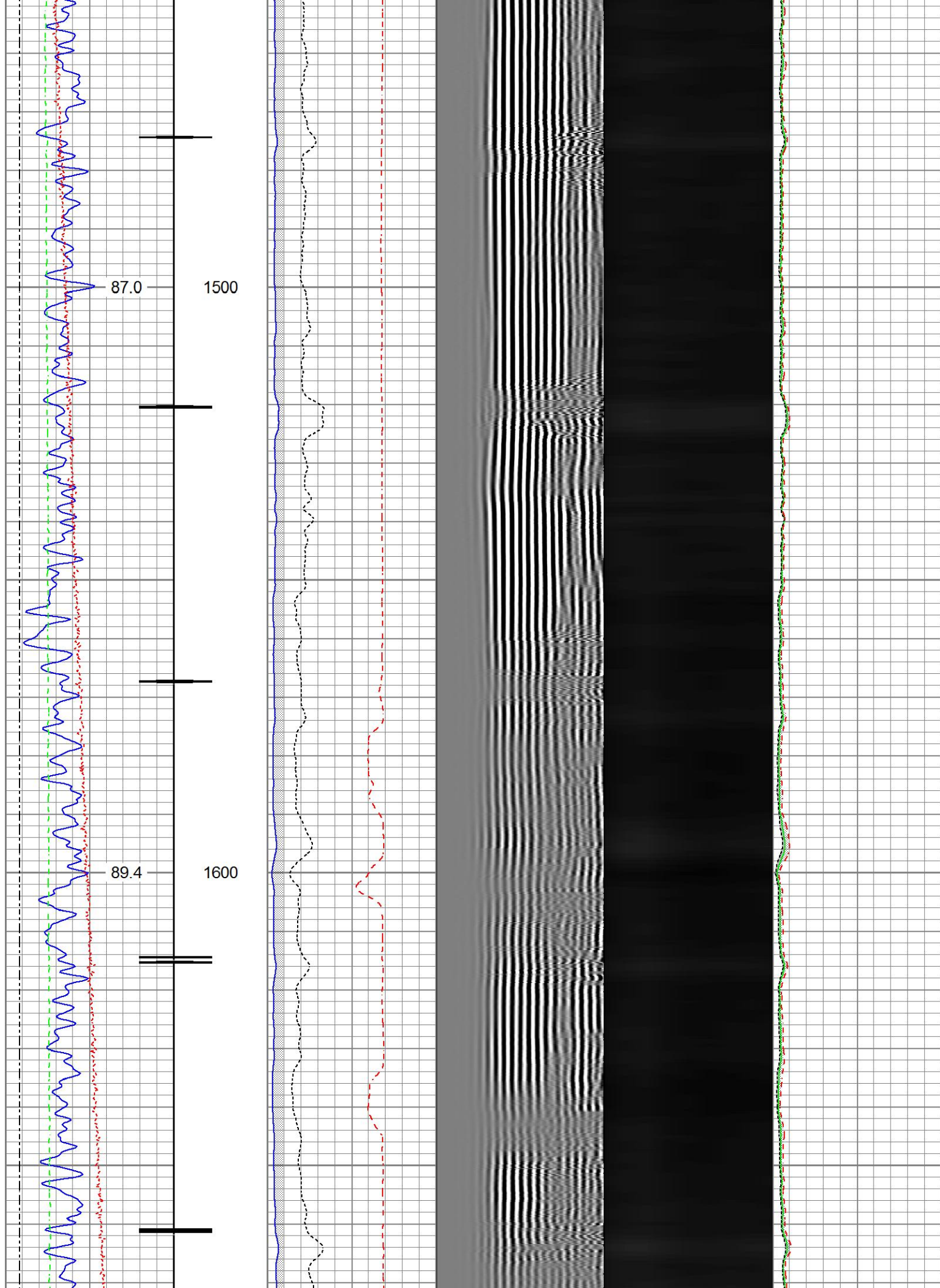


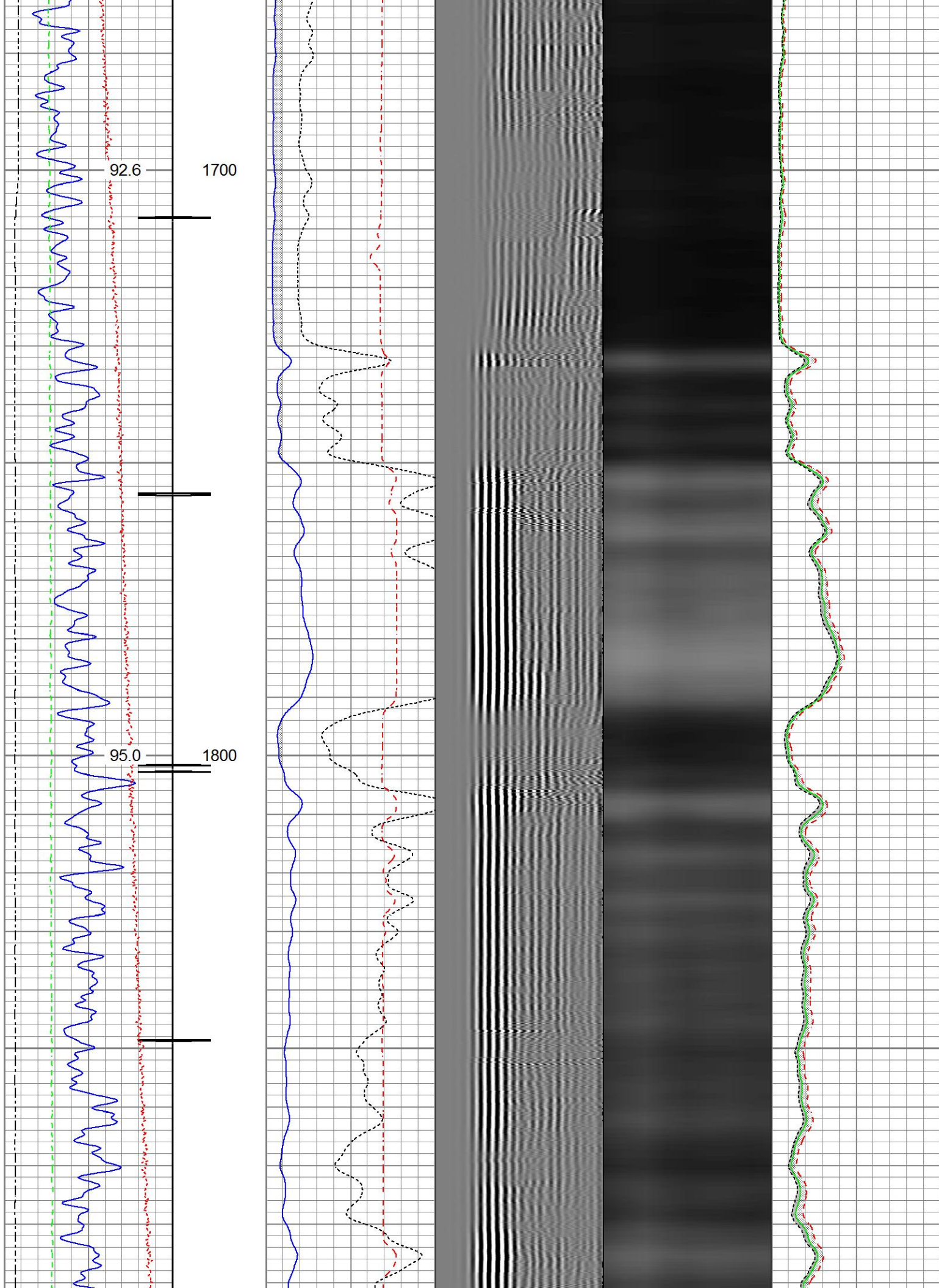


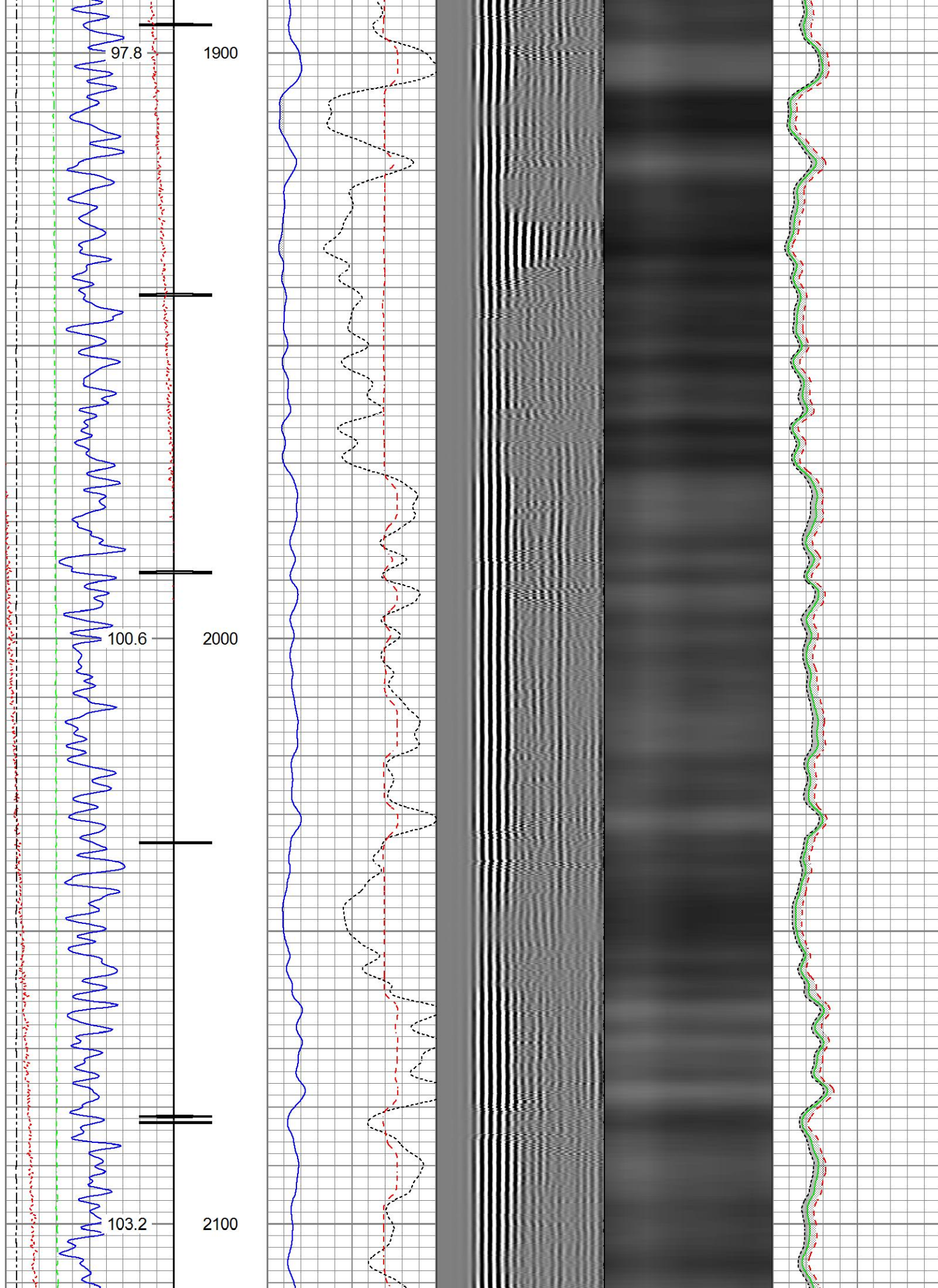


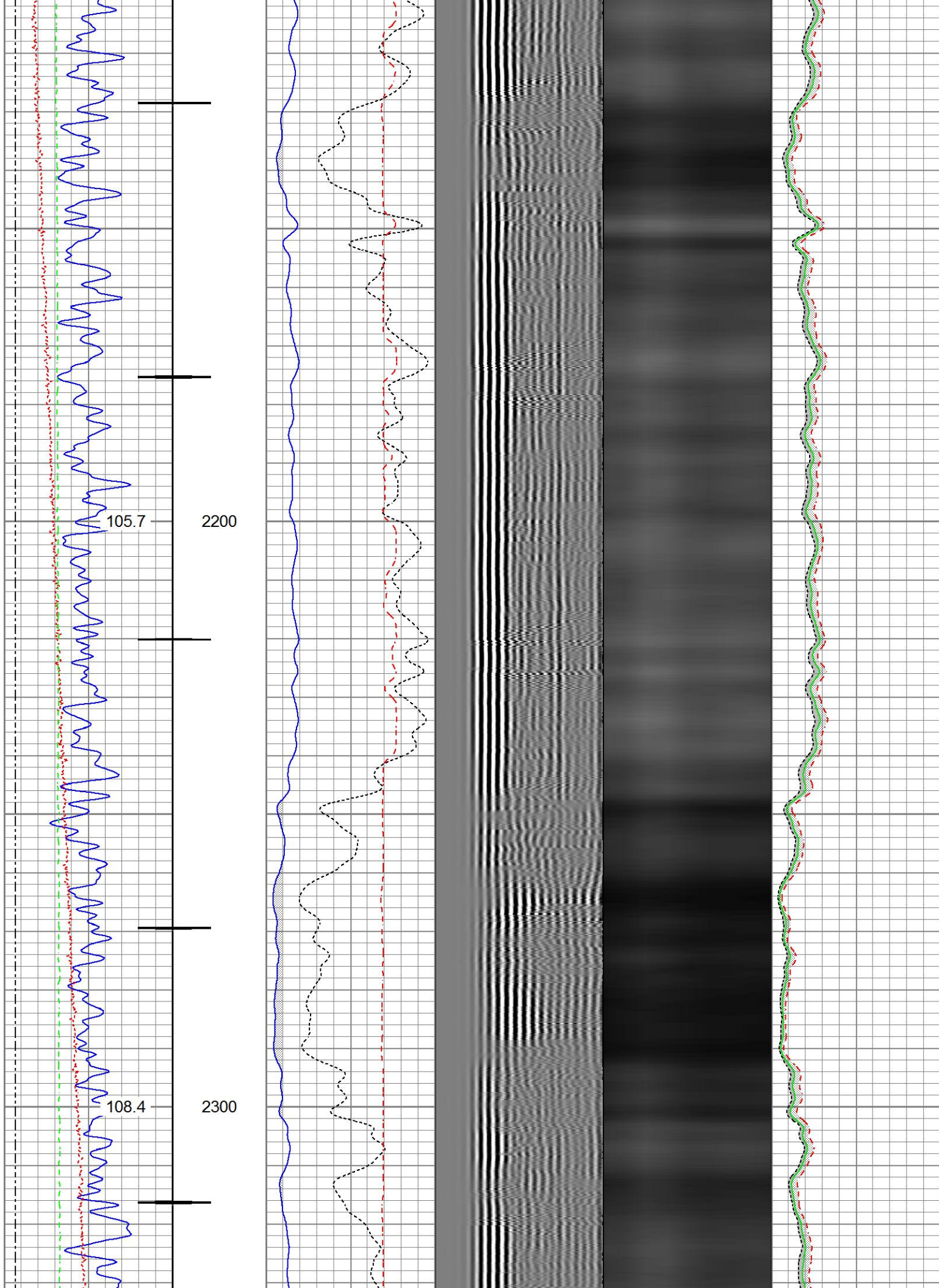


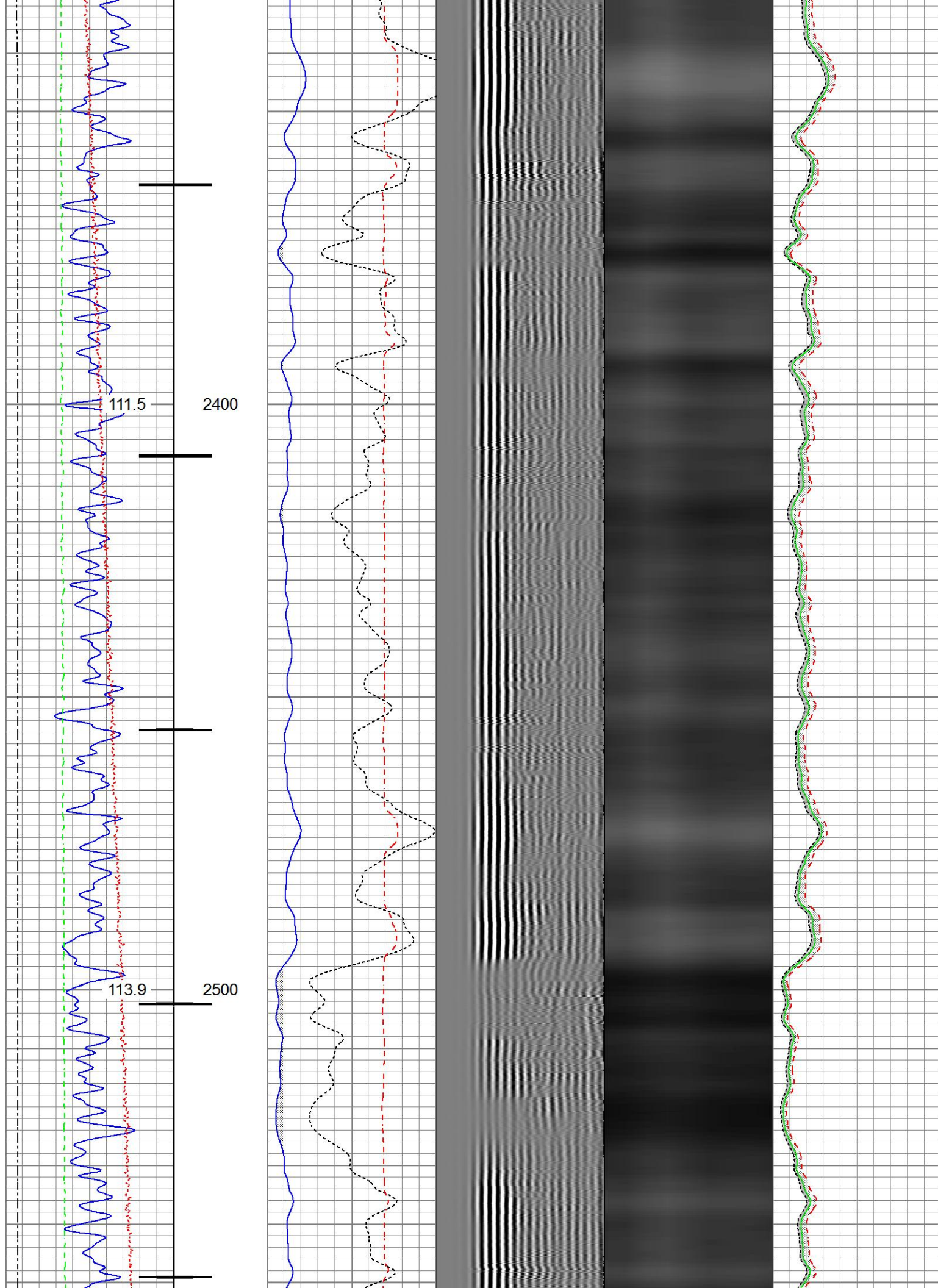


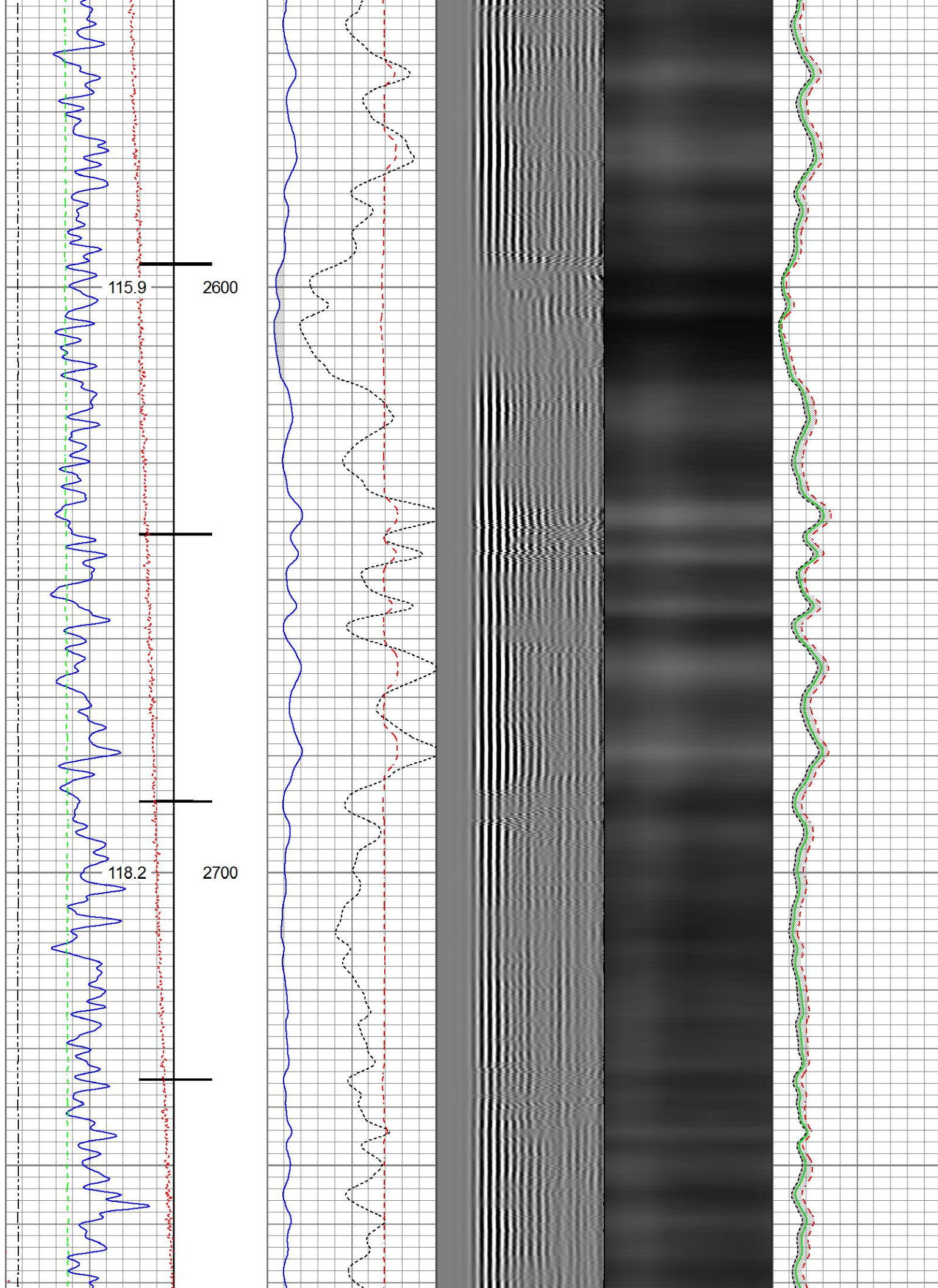


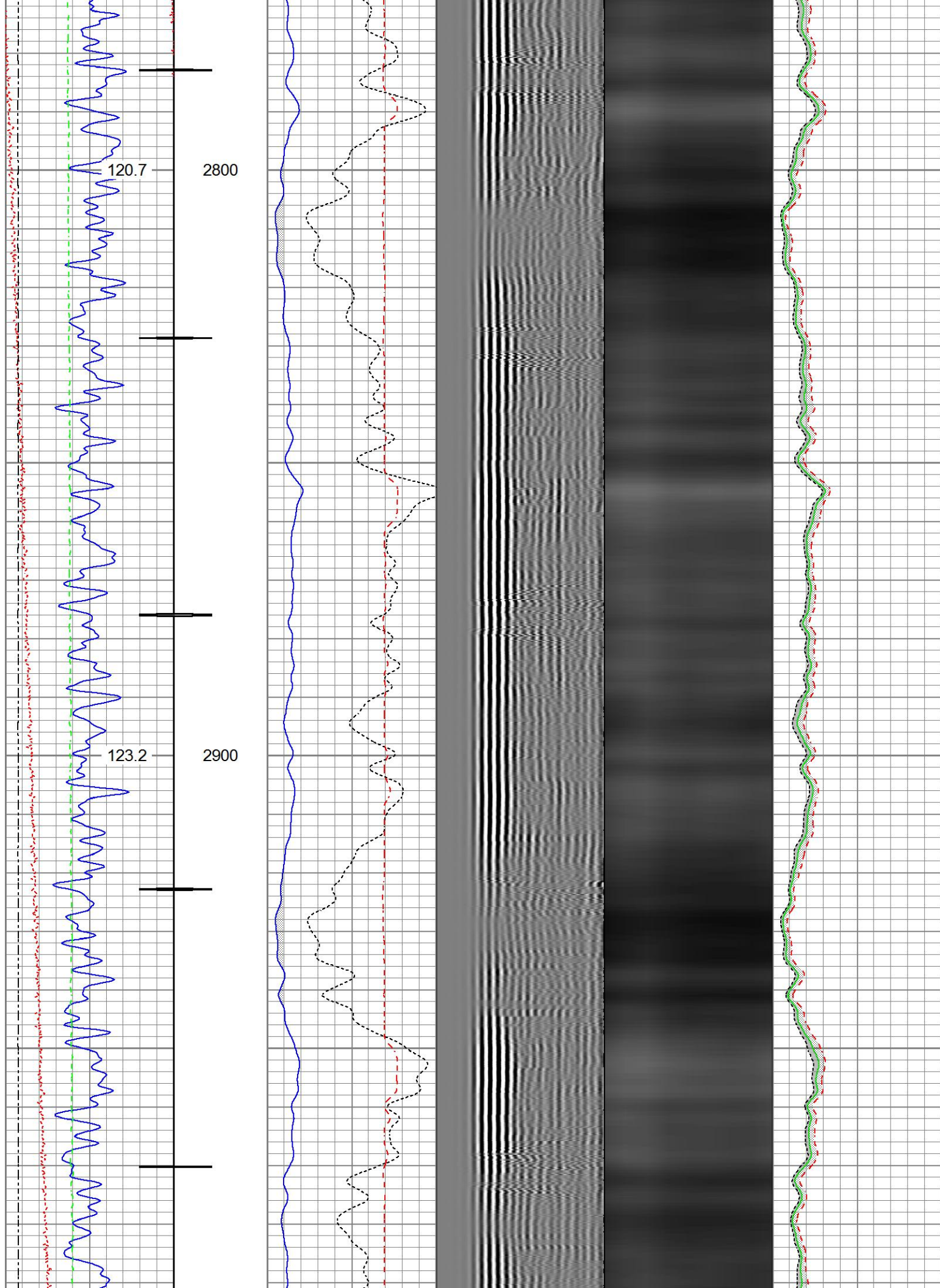


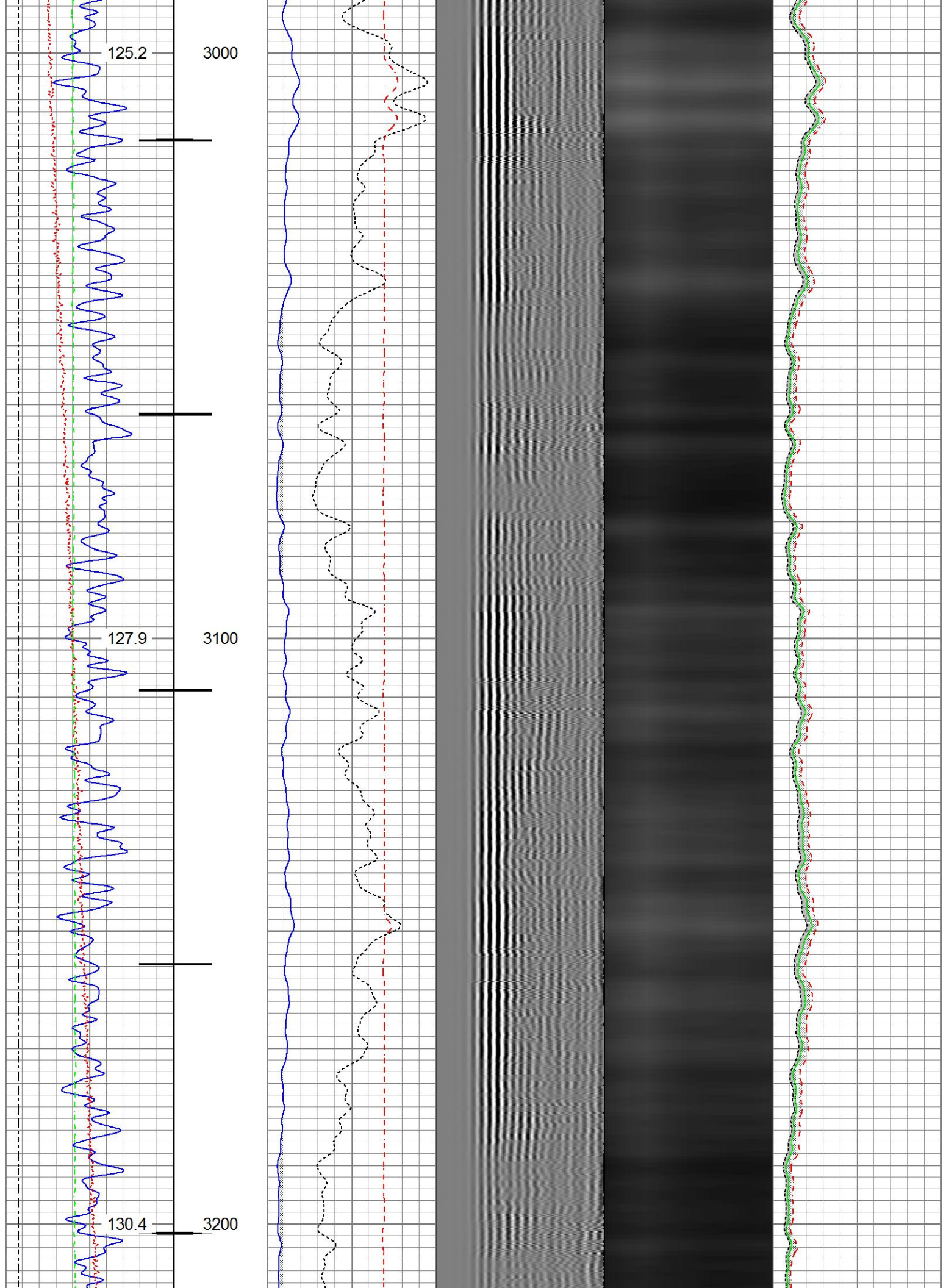


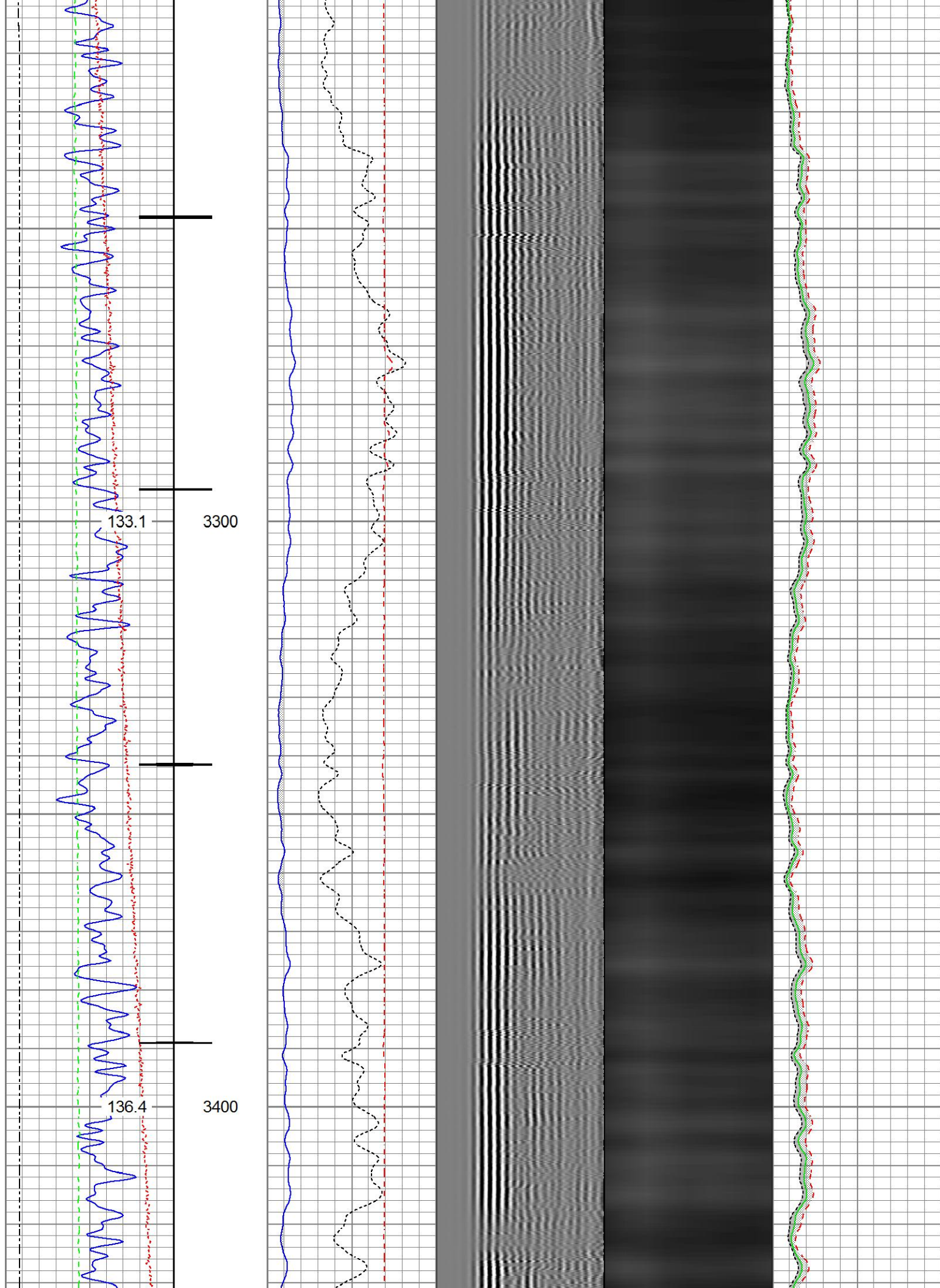


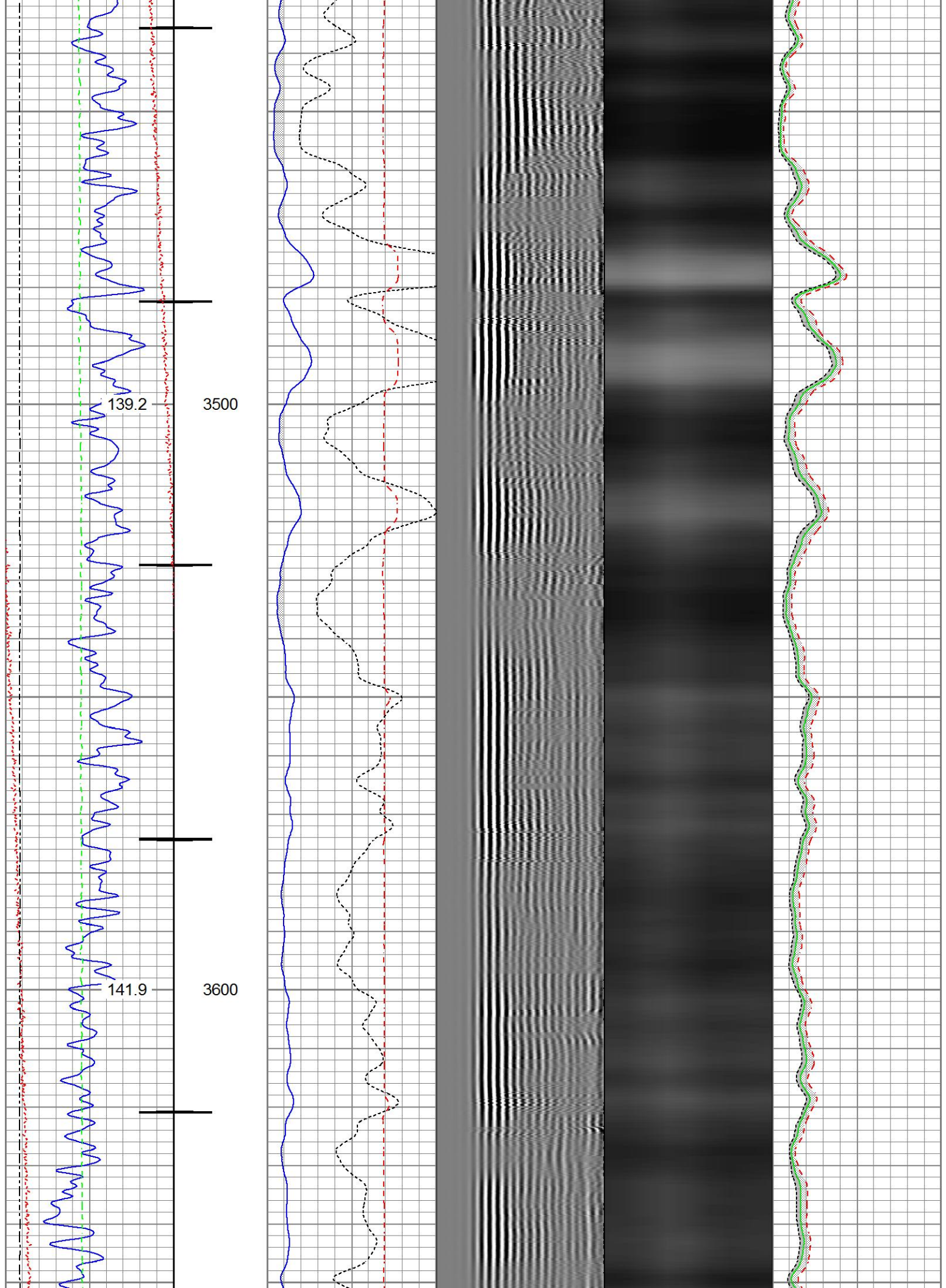


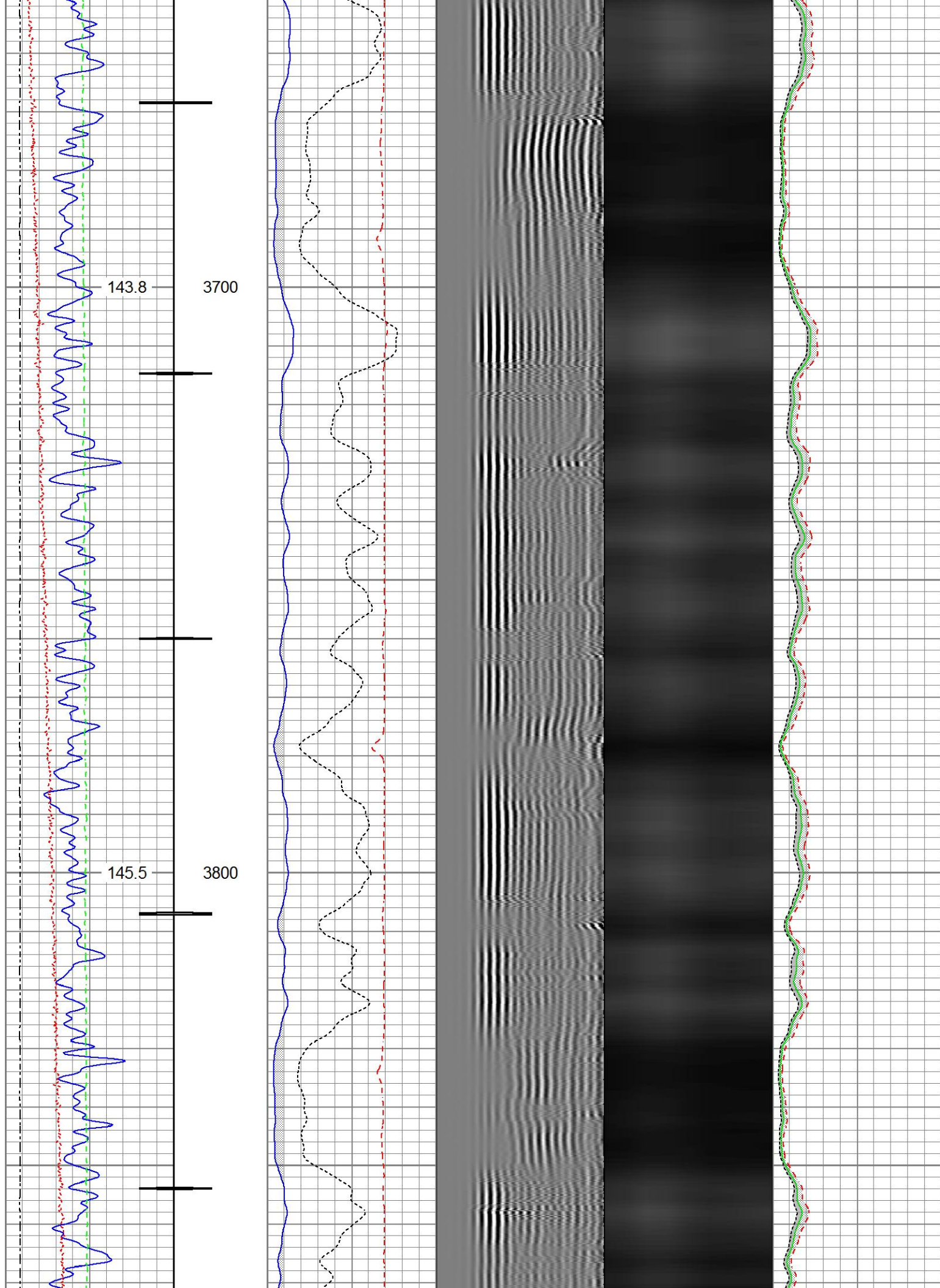


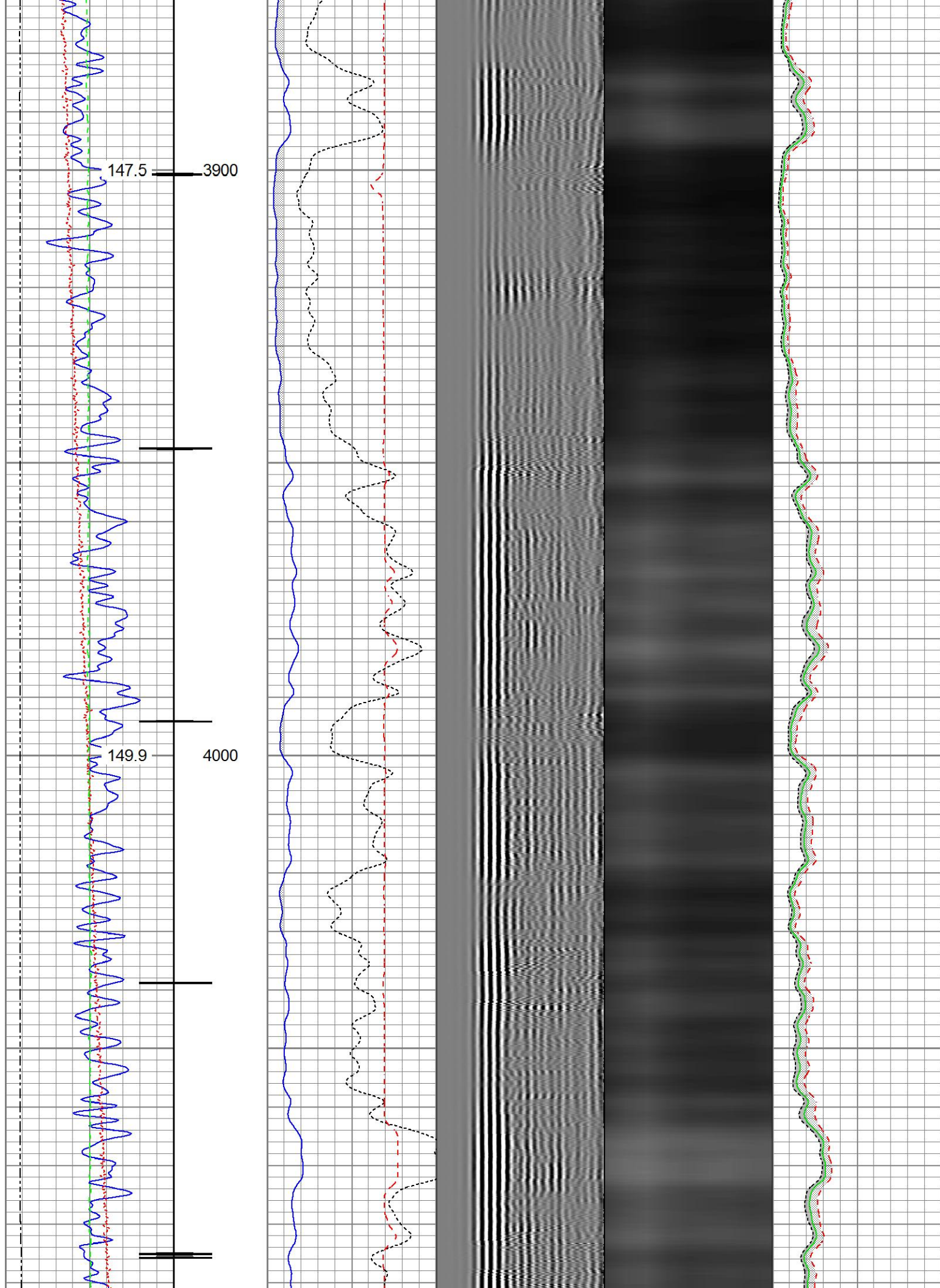


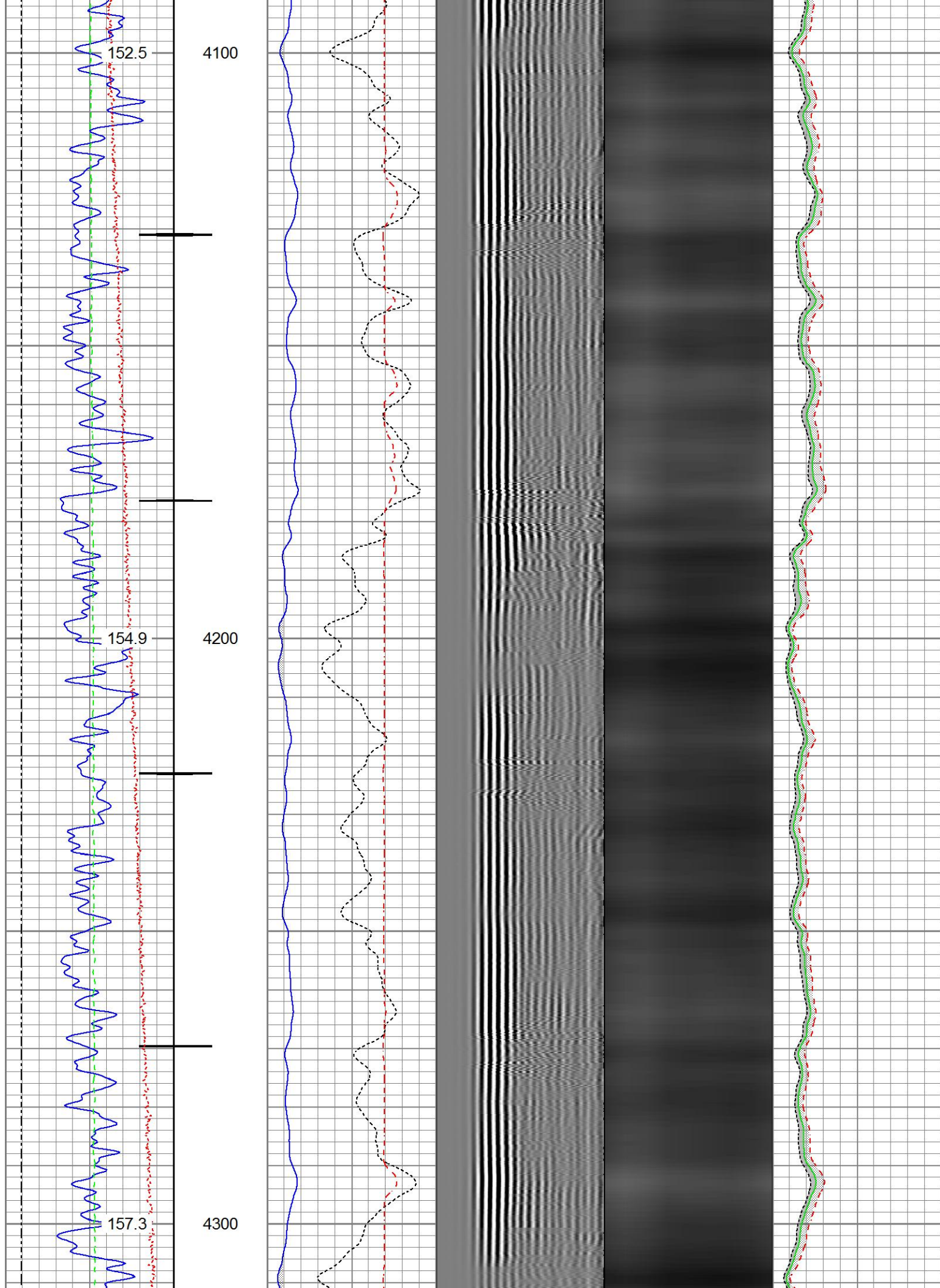


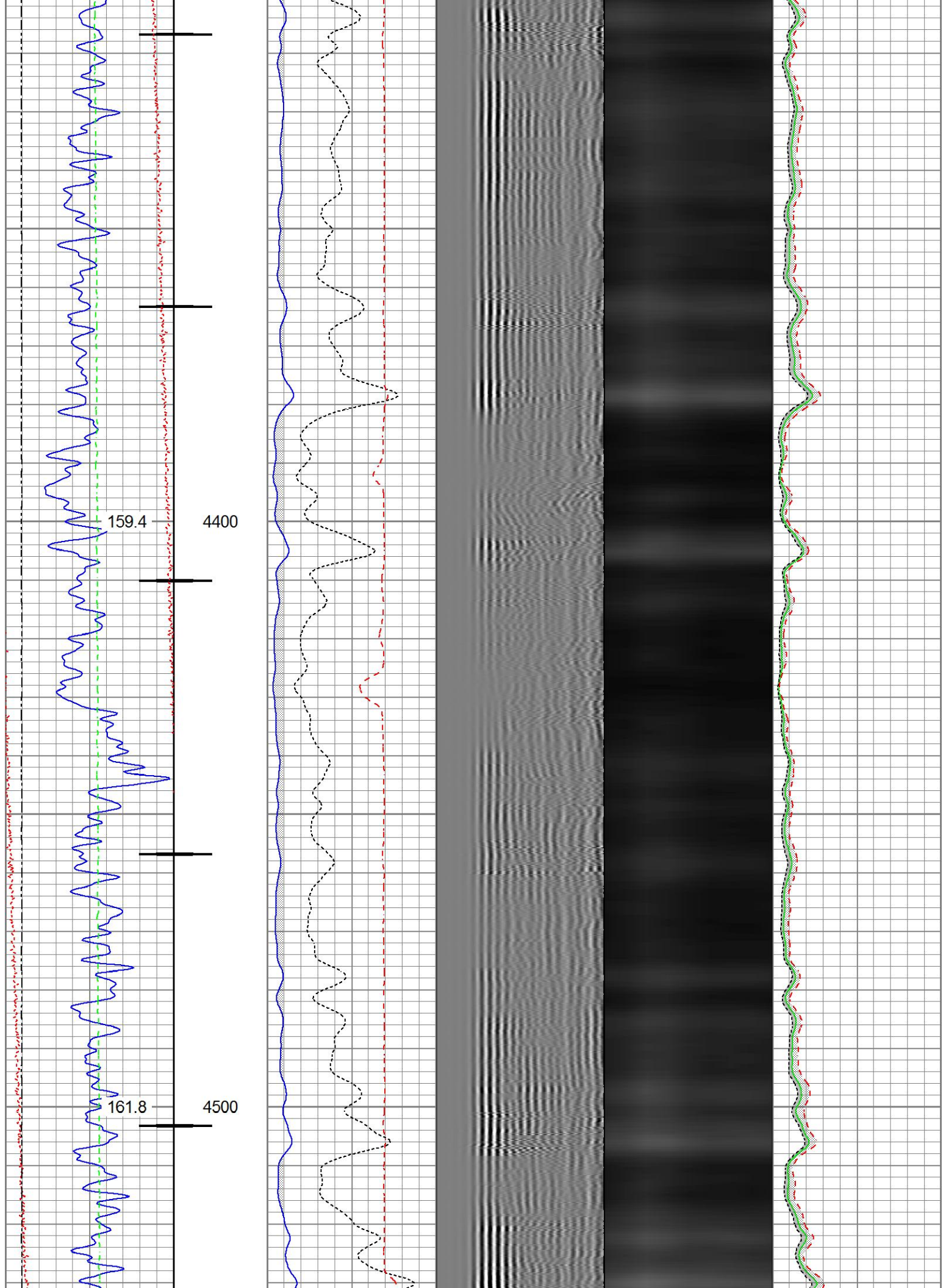


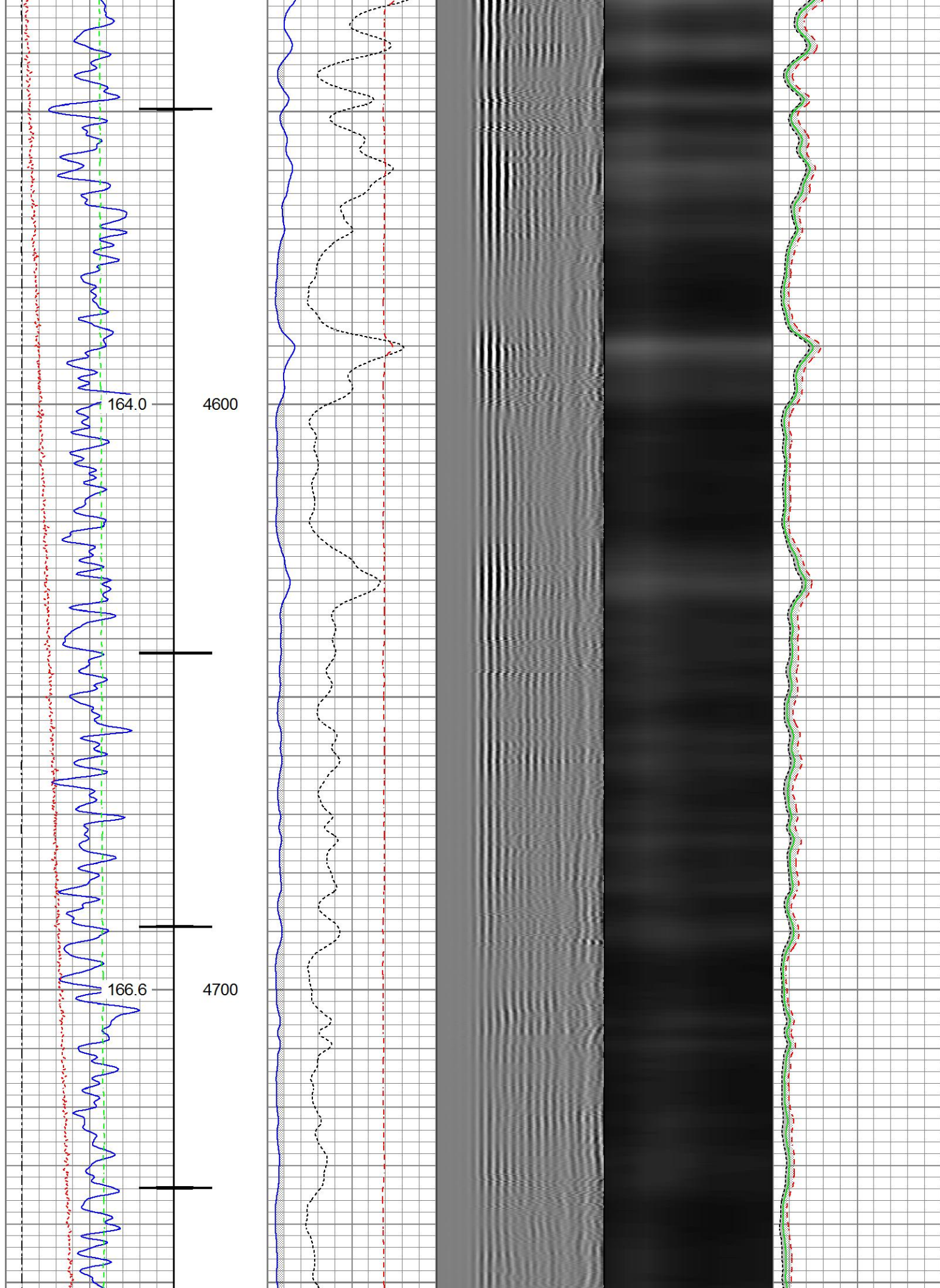


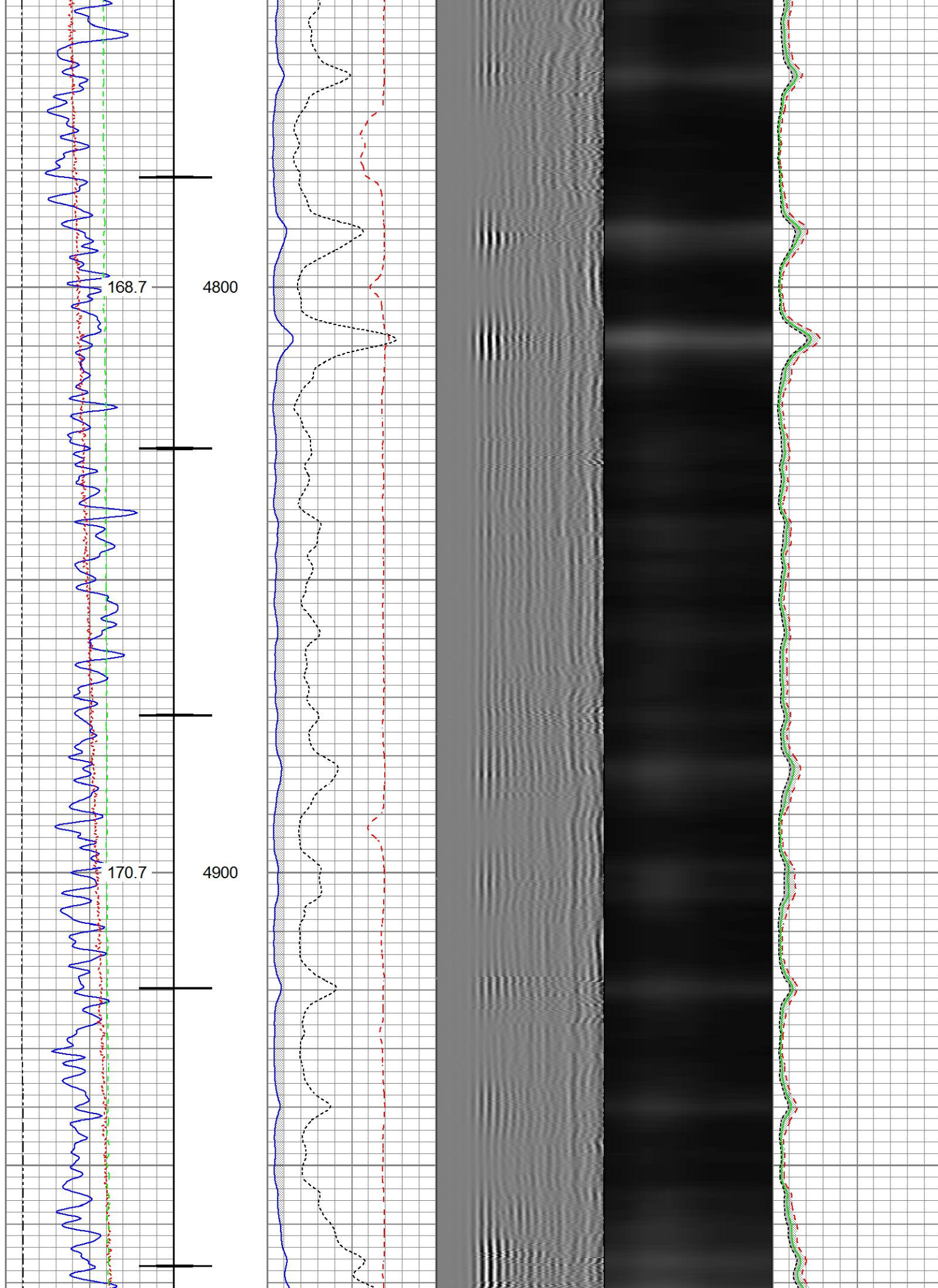


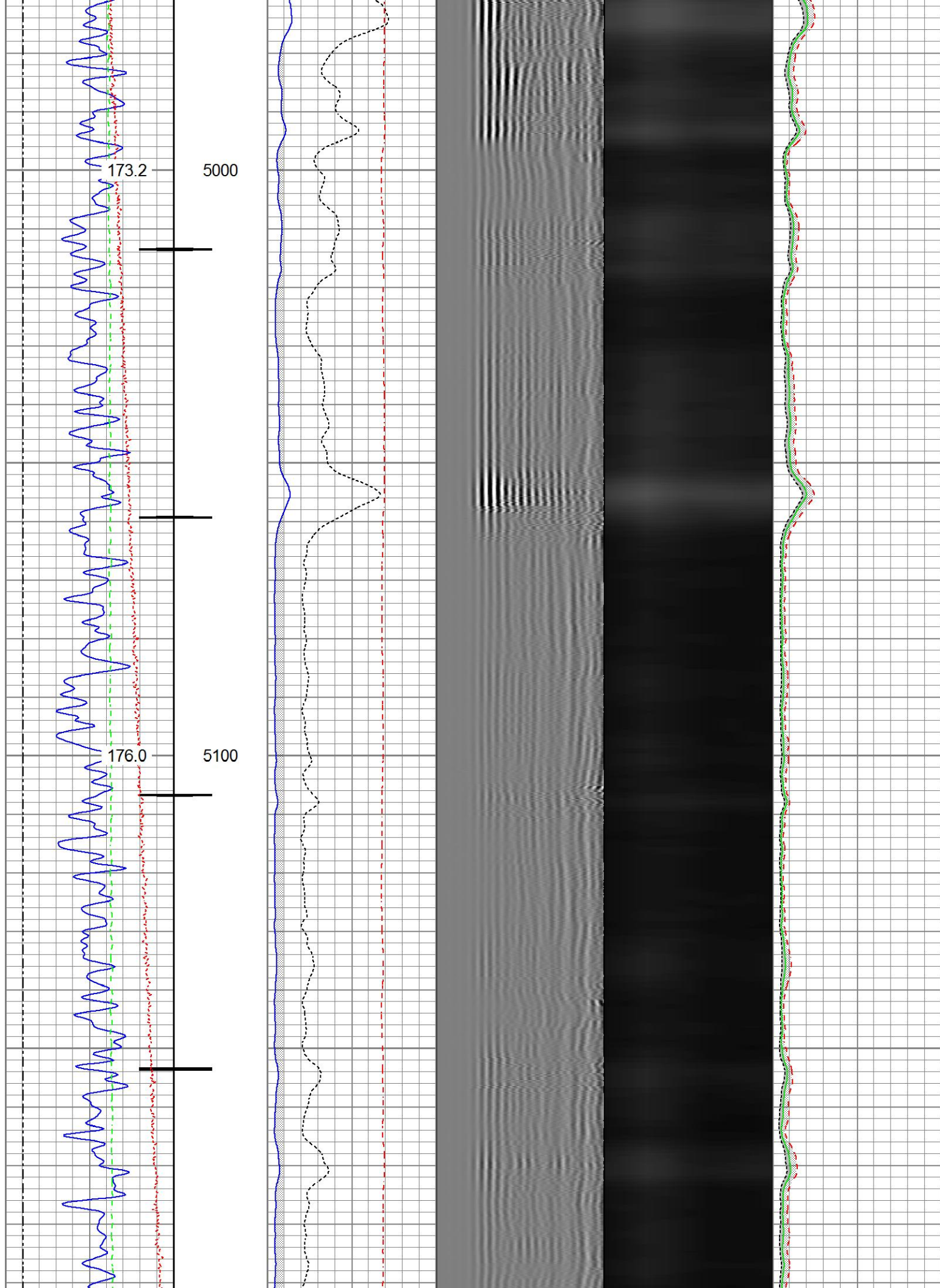


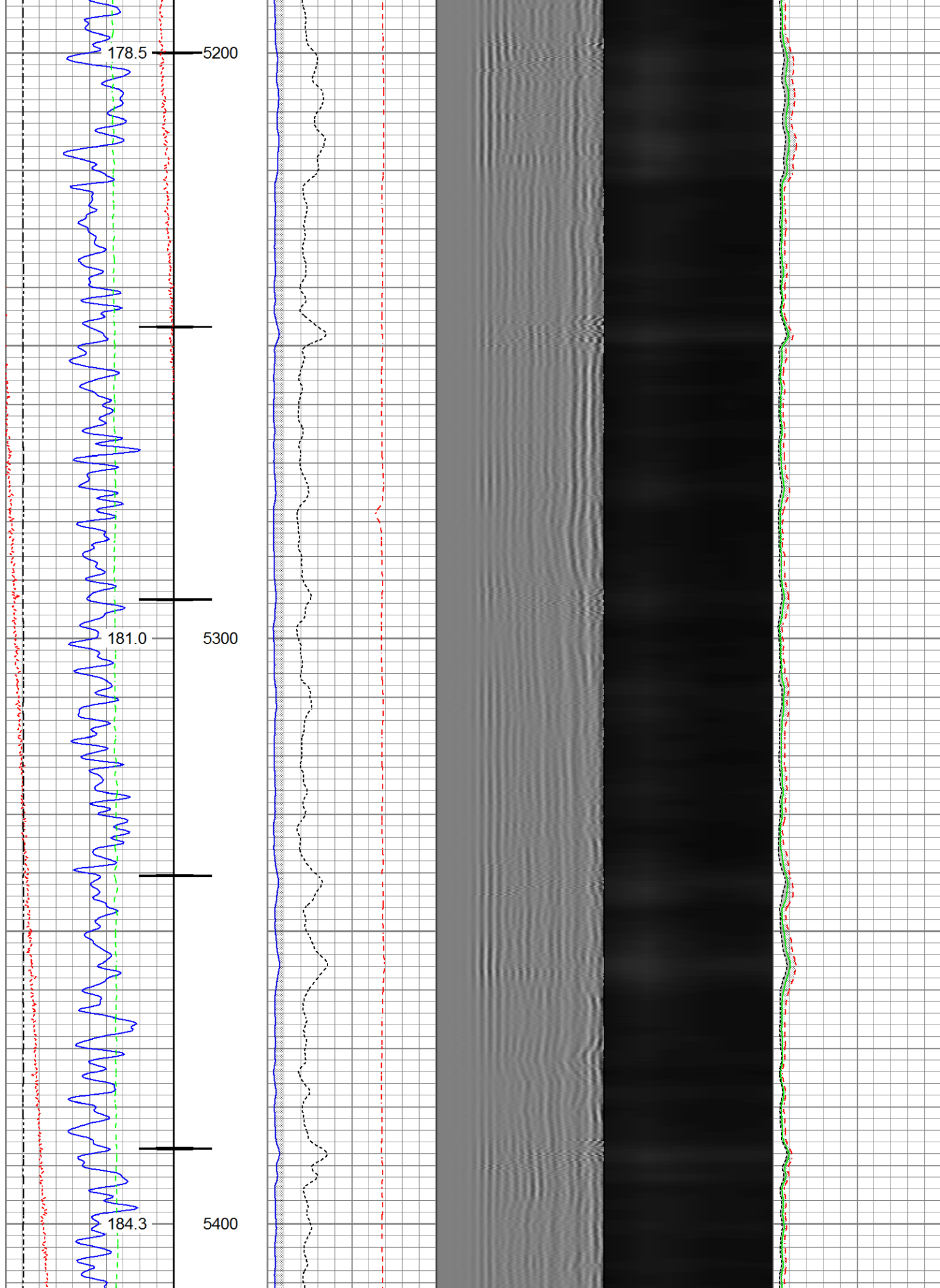


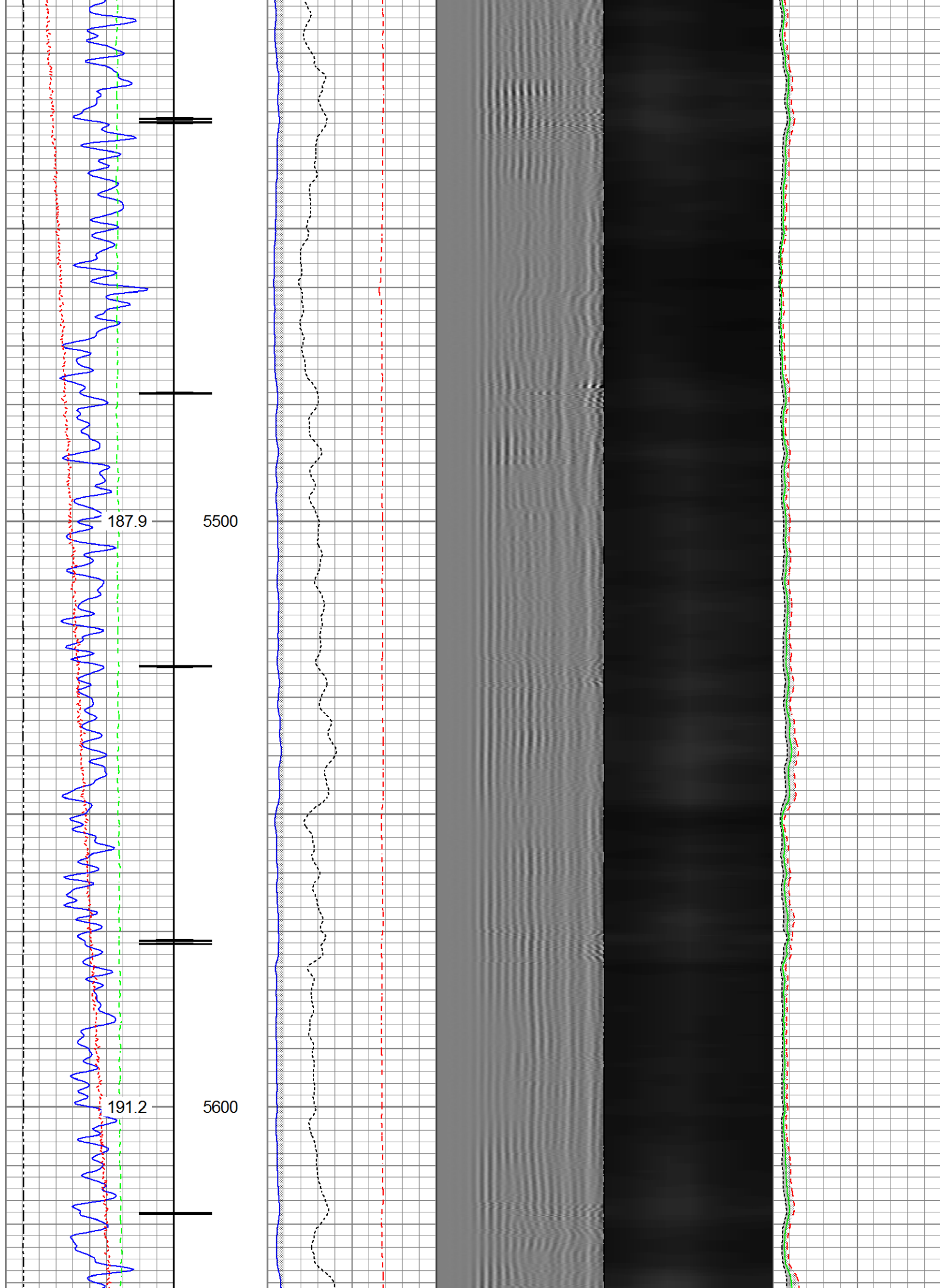


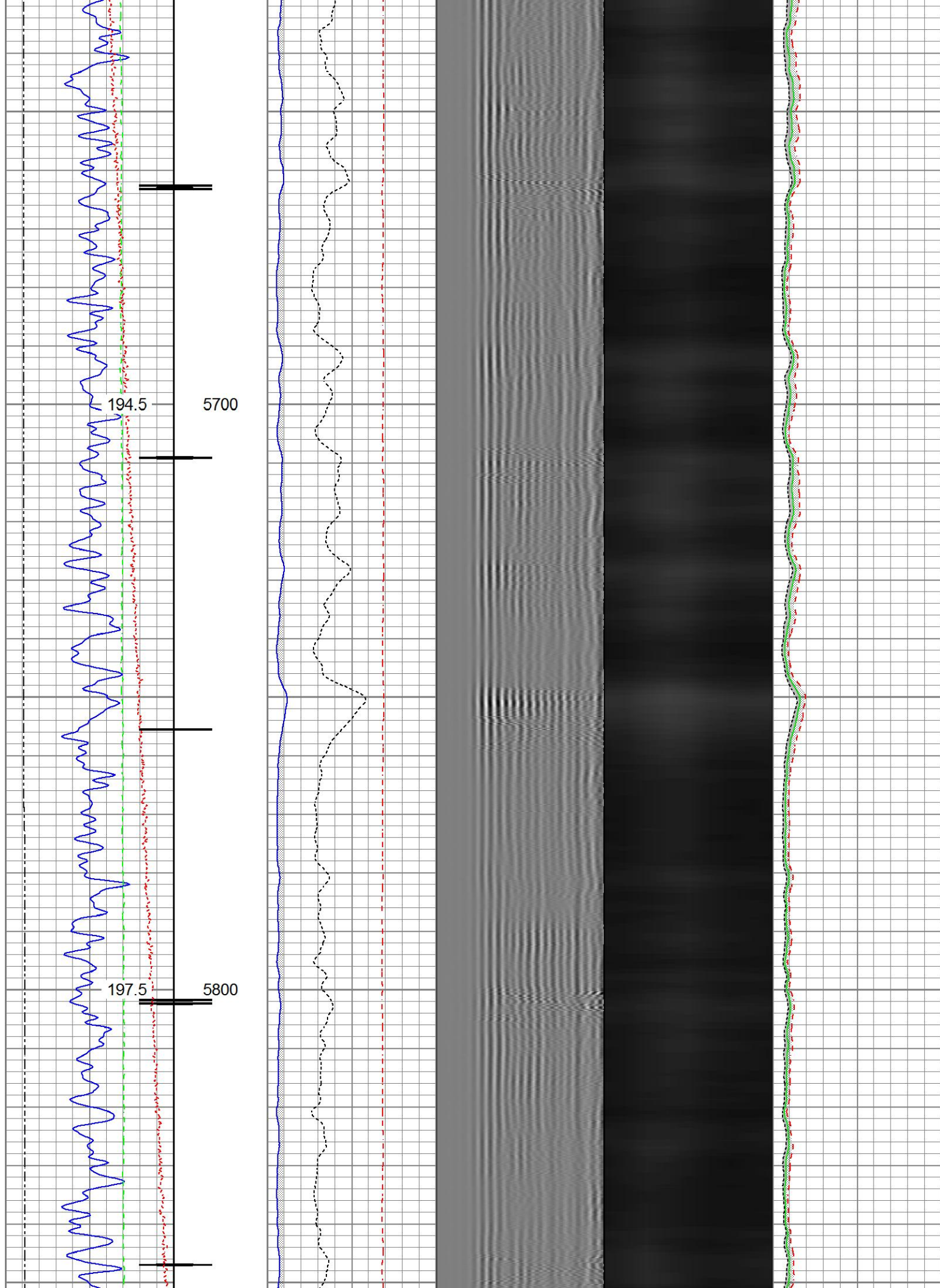


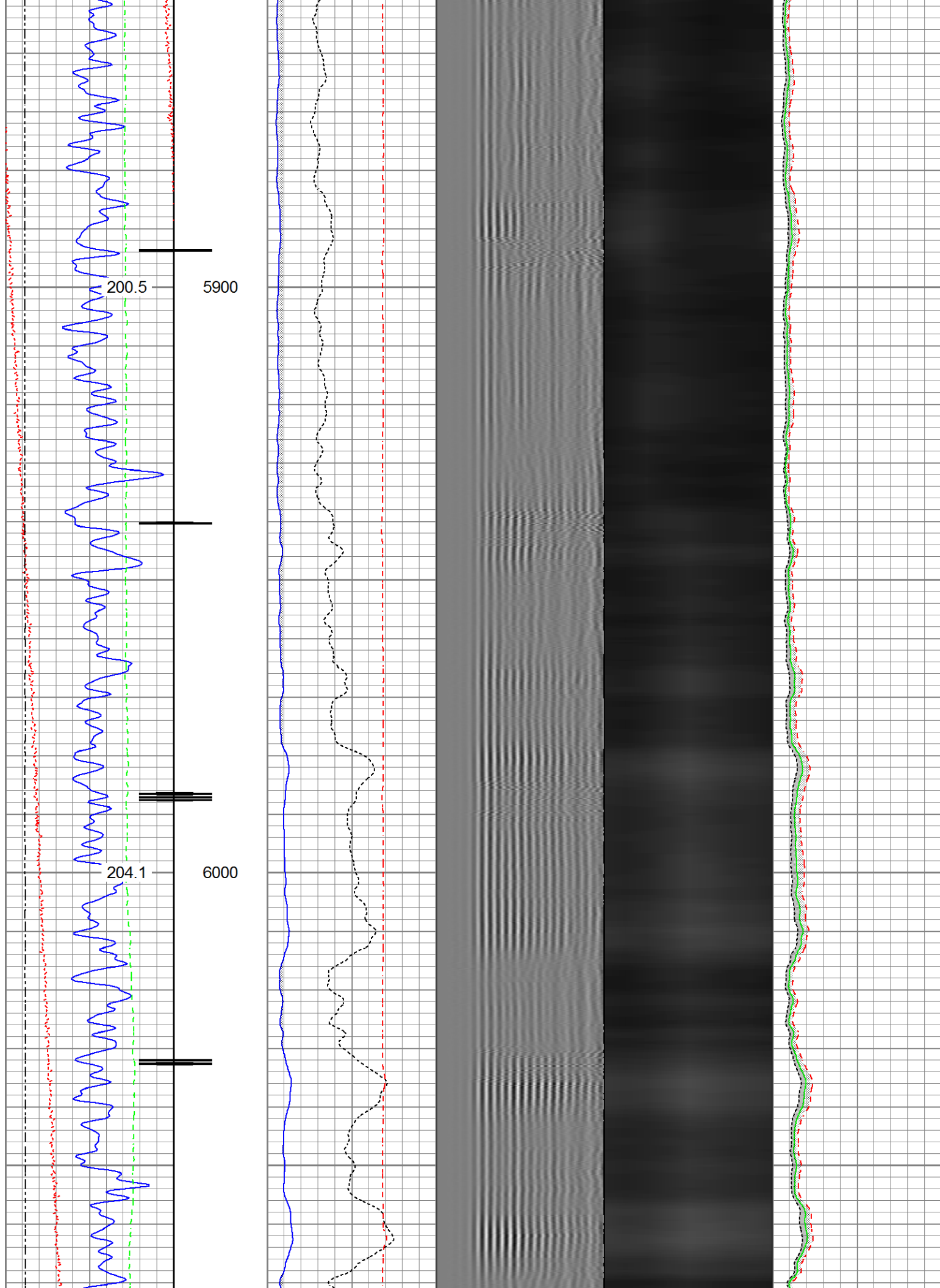


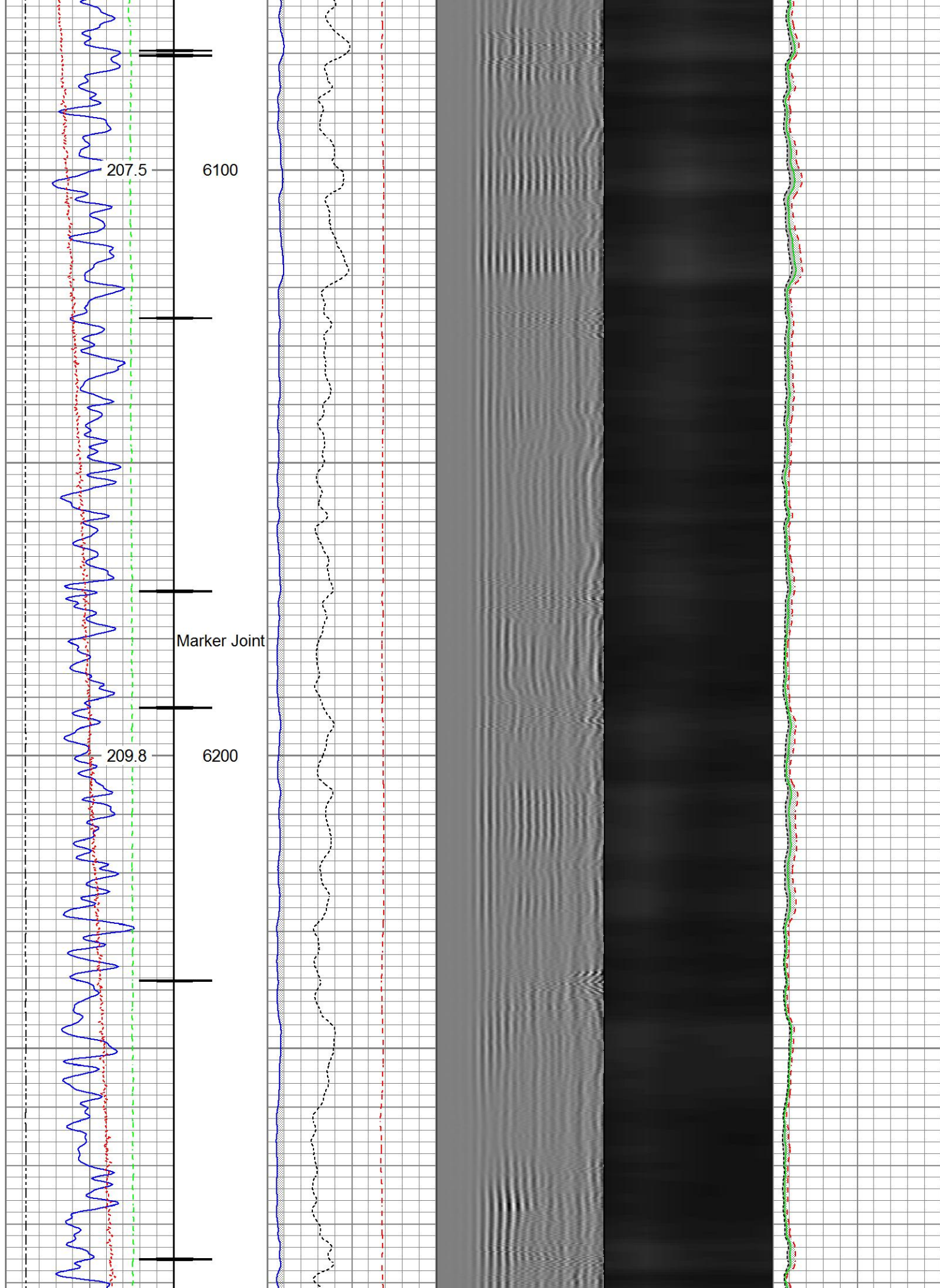


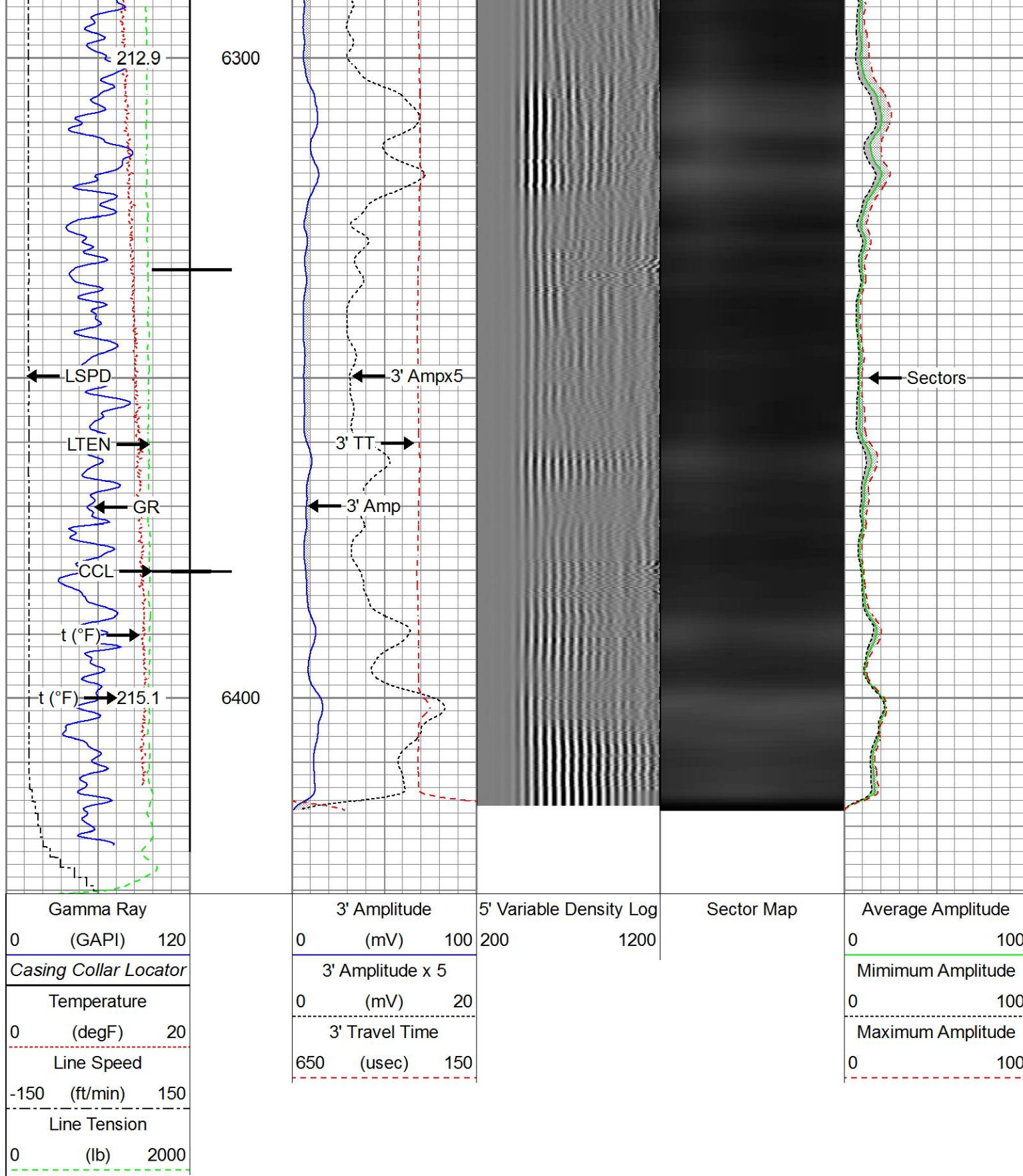










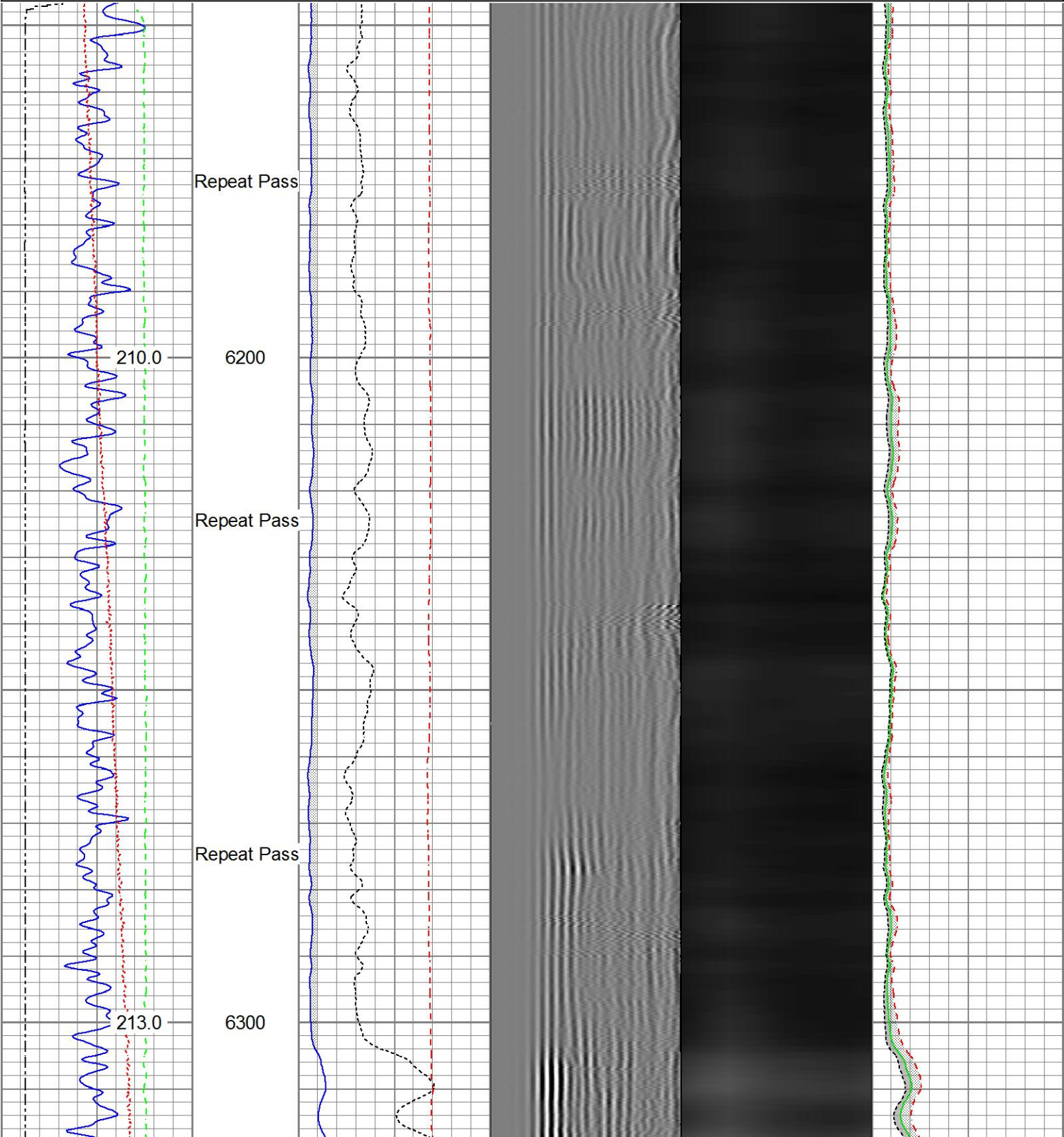


Repeat Pass

Recorded With 2000 PSI Surface Induced Pressure

Database File src energy_ag 31n-31b-l_rbl_10-28-17src energy_ag 31n-31b-l_rbl_10-28-17.db
 Dataset Pathname Repeat.1
 Presentation Format ros radii

Dataset Creation Charted by			Wed Nov 01 05:28:53 2017 Depth in Feet scaled 1:240						
Gamma Ray (GAPI)		0120	3' Amplitude (mV)		0100	5' Variable Density Log 2001200	Sector Map	Average Amplitude 0100	
Temperature (degF)		020	3' Amplitude x 5 (mV)		020			Minimum Amplitude 0100	
Line Speed (ft/min)		-150150	3' Travel Time (usec)		650150			Maximum Amplitude 0100	
Line Tension (lb)		02000							



Temp	10.72				
WVFS8	14.55		Probe_RADII-C-P_RBT_2750 (FW1302-009.19) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	2.75	105.00
WVFS7	14.55				
WVFS6	14.55				
WVFS5	14.55				
WVFS4	14.55				
WVFS3	14.55				
WVFS2	14.55				
WVFS1	14.55				
WVFCAL	14.55				
WVF3FT	14.55				
WVF5FT	13.55				
HeadVolt	10.30				
DCCL	6.51		Probe_ELine_BowSpring_Centralizer-P Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	20.00
CCL	6.51				
GR	5.30				
			Probe_GR_CCL-P_CGR_2750_S (FW1214.543) Probe 2-3/4" Digital CCL / Gamma Ray Combined	2.75	55.00
			Probe_ELine_BowSpring_Centralizer-P Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	20.00
Dataset: SRC Energy_Ag 31N-31B-L_RBL_10-28-17.db: field/well/run1/Main.1 Total length: 23.40 ft Total weight: 225.40 lb O.D.: 2.75 in					

Calibration Report		
Database File	c:\programdata\warrior\data\src energy_ag 31n-31b-l_rbl_10-28-17\src energy_ag 31n-31b-l_rbl_10-28-17.db	
Dataset Pathname	Main.2	
Dataset Creation	Wed Nov 01 05:16:33 2017	
Gamma Ray Calibration Report		
Serial Number:	FW1212-026	
Tool Model:	P_CGR_2750_S	
Performed:	Sat Feb 06 11:32:54 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.6	cps
Sensitivity:	0.6061	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1302-002
Tool Model: P_RBT_2750

Calibration Casing Diameter: 5.500 in
Calibration Depth: -6.339 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.601	0.800	71.921	118.799	0.563
CAL	0.728	0.735				
5'	0.001	0.553	0.800	71.921	128.887	0.666
SUM						
S1	0.002	0.591	0.000	100.000	169.916	-0.352
S2	0.003	0.617	0.000	100.000	162.684	-0.420
S3	0.003	0.640	0.000	100.000	156.874	-0.427
S4	0.003	0.630	0.000	100.000	159.409	-0.444
S5	0.002	0.611	0.000	100.000	164.376	-0.399
S6	0.002	0.596	0.000	100.000	168.306	-0.369
S7	0.002	0.588	0.000	100.000	170.710	-0.302
S8	0.002	0.590	0.000	100.000	170.118	-0.289

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.728	0.735	1.000	0.000

Air Zero Calibration, performed Sat Oct 28 12:46:07 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.008		0.000		-0.000	
5'	0.008		0.000		-0.000	
SUM						
S1	0.004		0.000		0.000	
S2	0.008		0.000		0.000	
S3	0.008		0.000		0.000	
S4	0.008		0.000		0.000	
S5	0.008		0.000		0.000	
S6	0.008		0.000		0.000	
S7	0.008		0.000		-0.000	
S8	0.008		0.000		-0.000	



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