



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company SRC Energy Inc		Well Ag 32C-31-L		Field Wattenberg		County Weld		State Colorado							
Location:		API # : 05-123-44877		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		31-OCT-2017													
Run Number		Two													
Depth Driller		18348 FT													
Depth Logger		6630 FT													
Bottom Logged Interval		6625 FT													
Top Log Interval		Surface													
Open Hole Size		---													
Type Fluid		Water													
Density / Viscosity		8.34 lb/gal													
Max. Recorded Temp.		218°F													
Estimated Cement Top		See Log													
Time Well Ready		ROA													
Time Logger on Bottom		7:07													
Equipment Number		HD-0324													
Location		Fort Lupton, CO													
Recorded By		Jason Morrison													
Witnessed By		Brian Moore													
Borehole Record				Tubing Record											
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		18335 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 6428 FT
Adjusted Log -26 FT to correlate with Marker Joint
Log ran from 6630 FT to Surface
Log ran with 2000 PSI Surface Induced Pressure
Logging tools came out clean and free of debris upon completion of operations

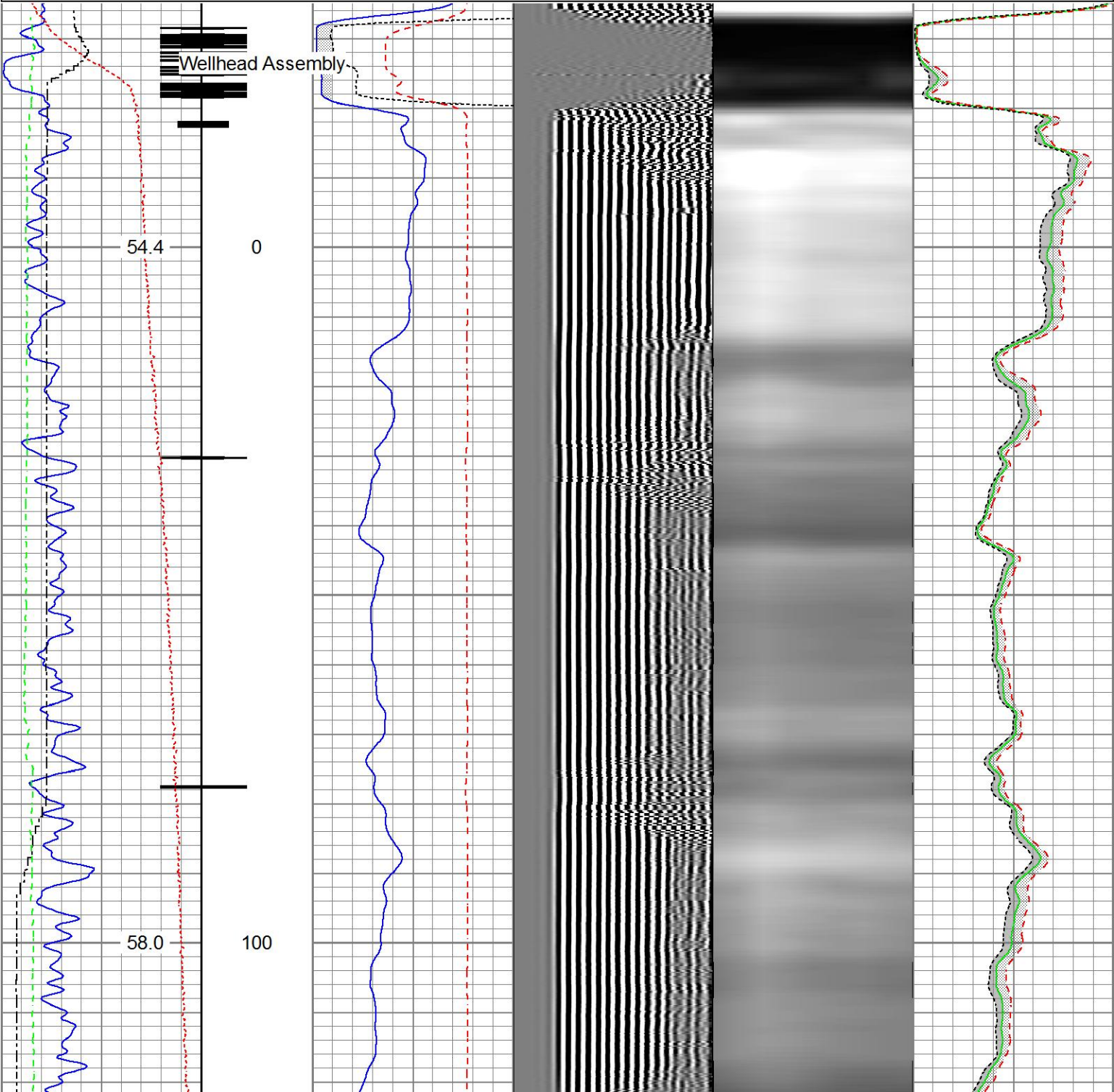
Thank you for choosing Reliance Oilfield Services, LLC!!

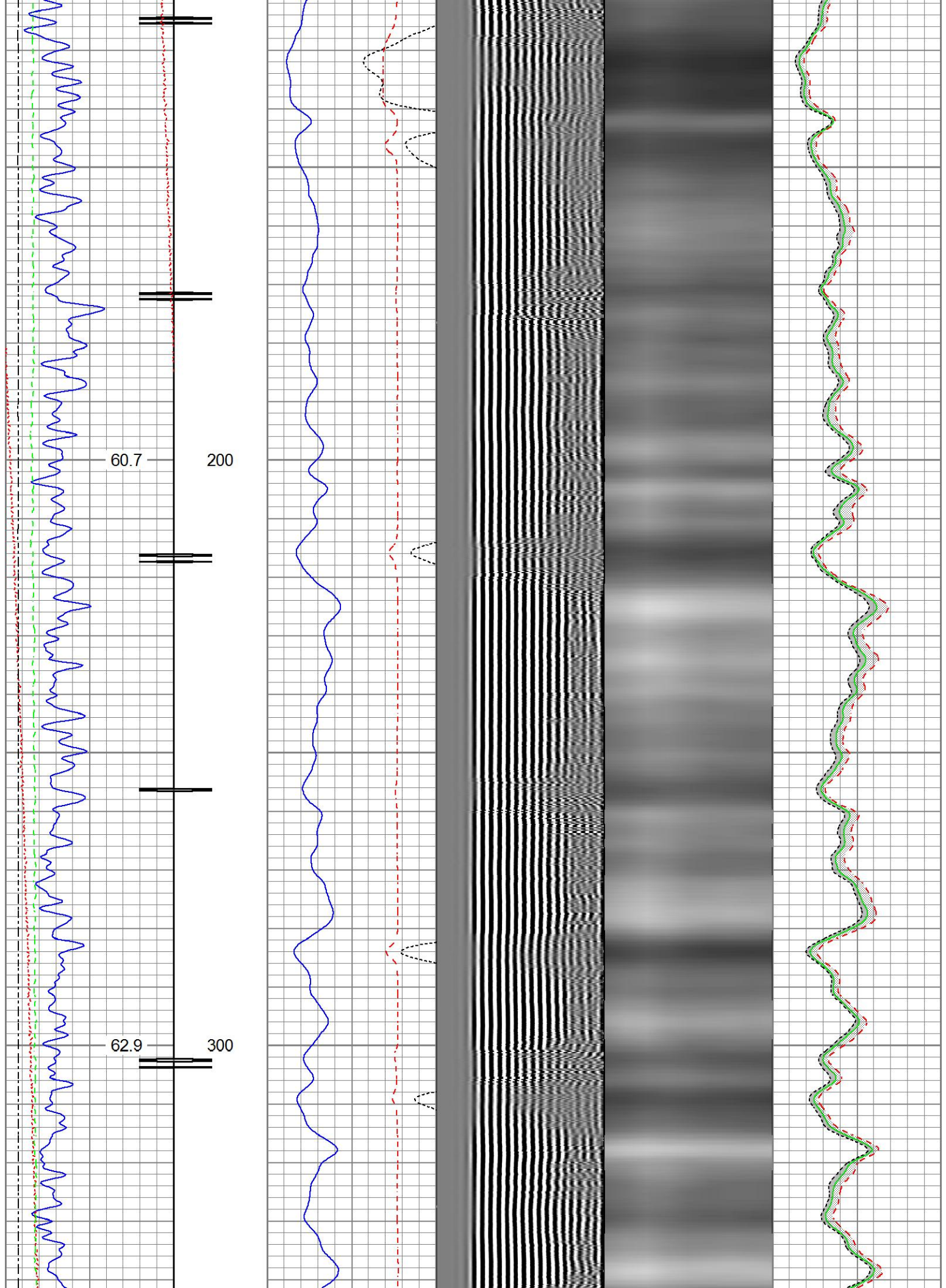


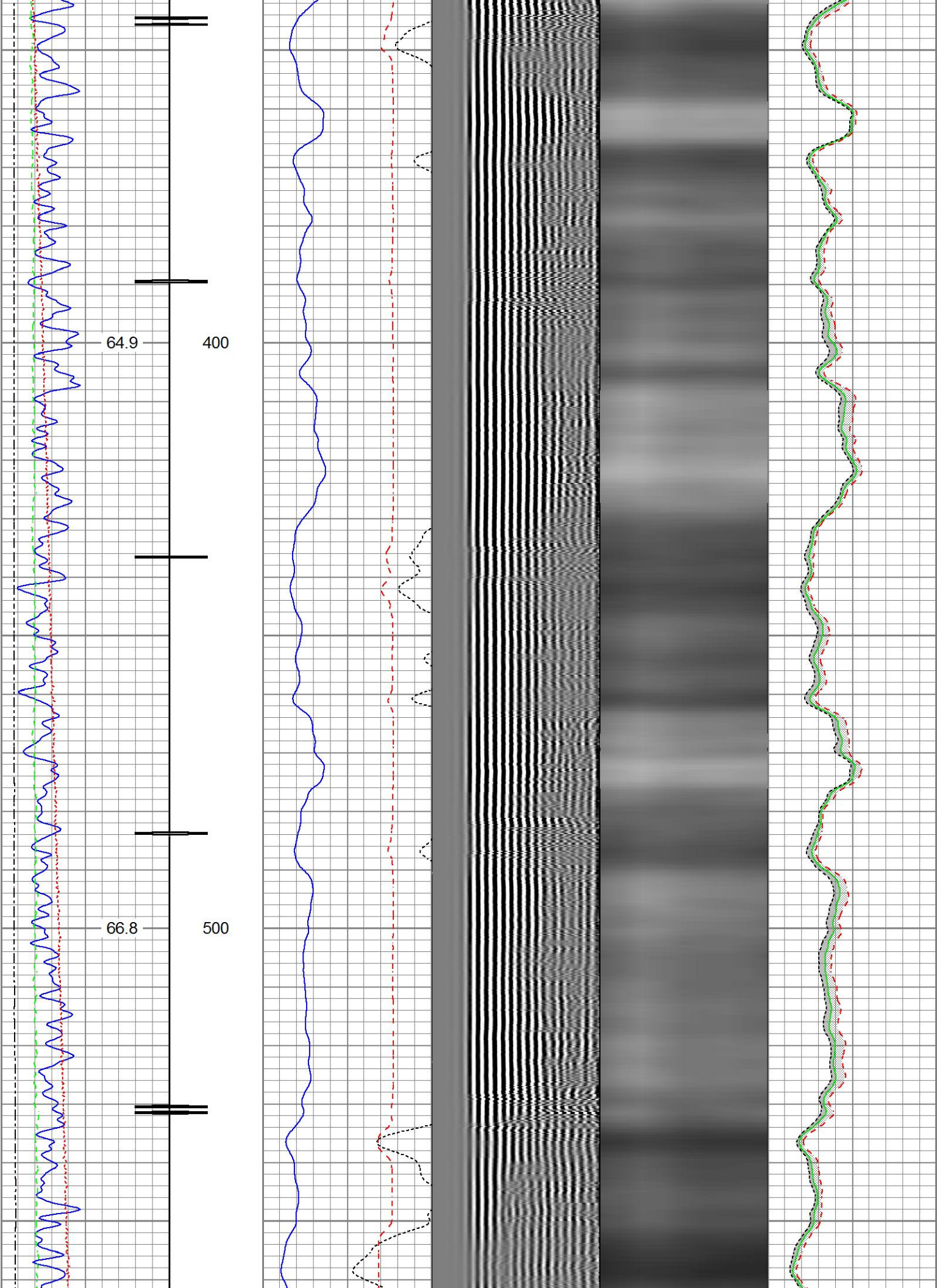
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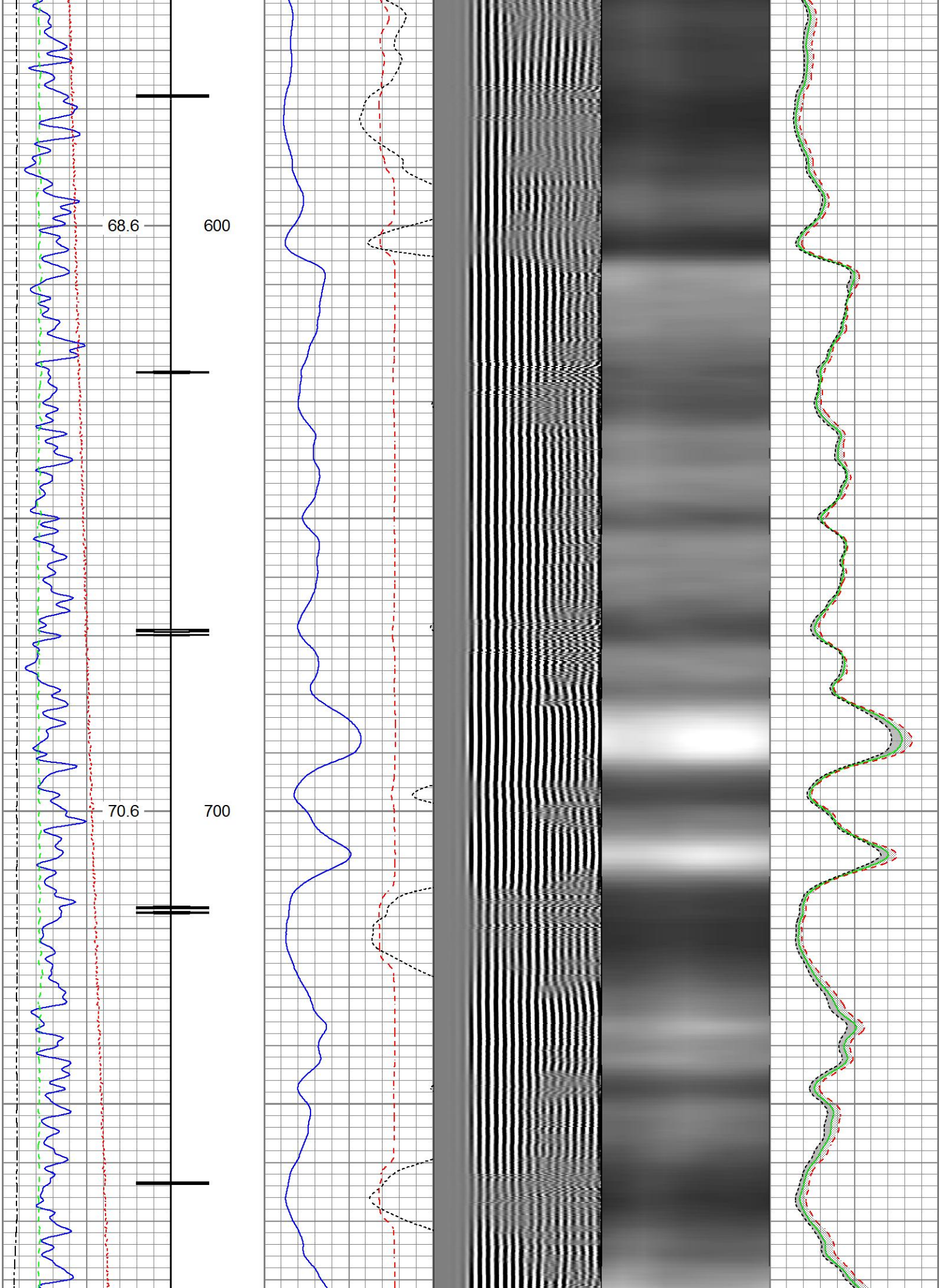
Recorded With 2000 PSI Surface Induced Pressure

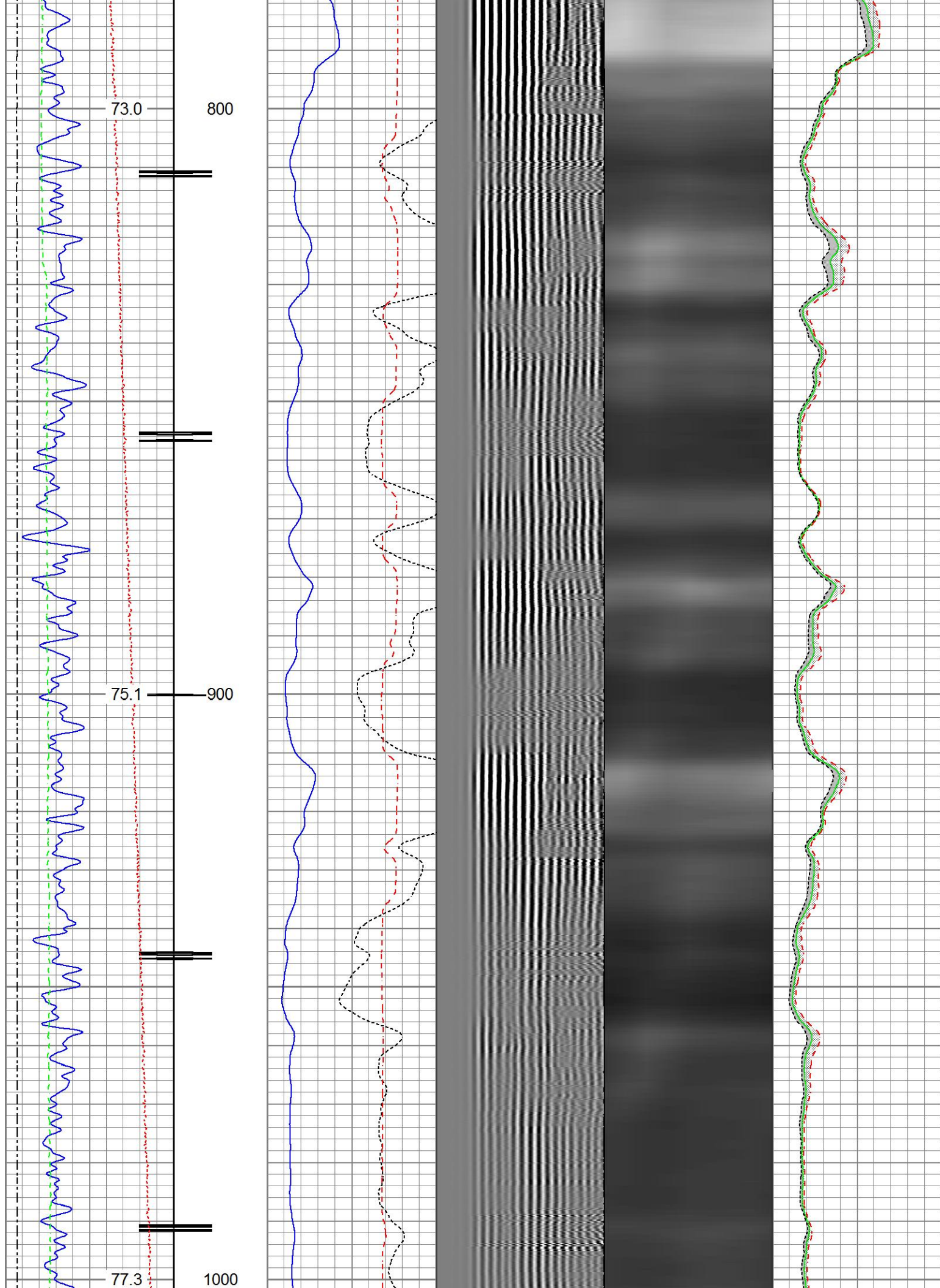
Gamma Ray			3' Amplitude			5' Variable Density Log		Sector Map	Average Amplitude	
0	(GAPI)	120	0	(mV)	100	200	1200		0	100
Casing Collar Locator			3' Amplitude x 5						Minimum Amplitude	
Temperature			0 (mV) 20						0 100	
0 (degF) 20			3' Travel Time						Maximum Amplitude	
Line Speed			650 (usec) 150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

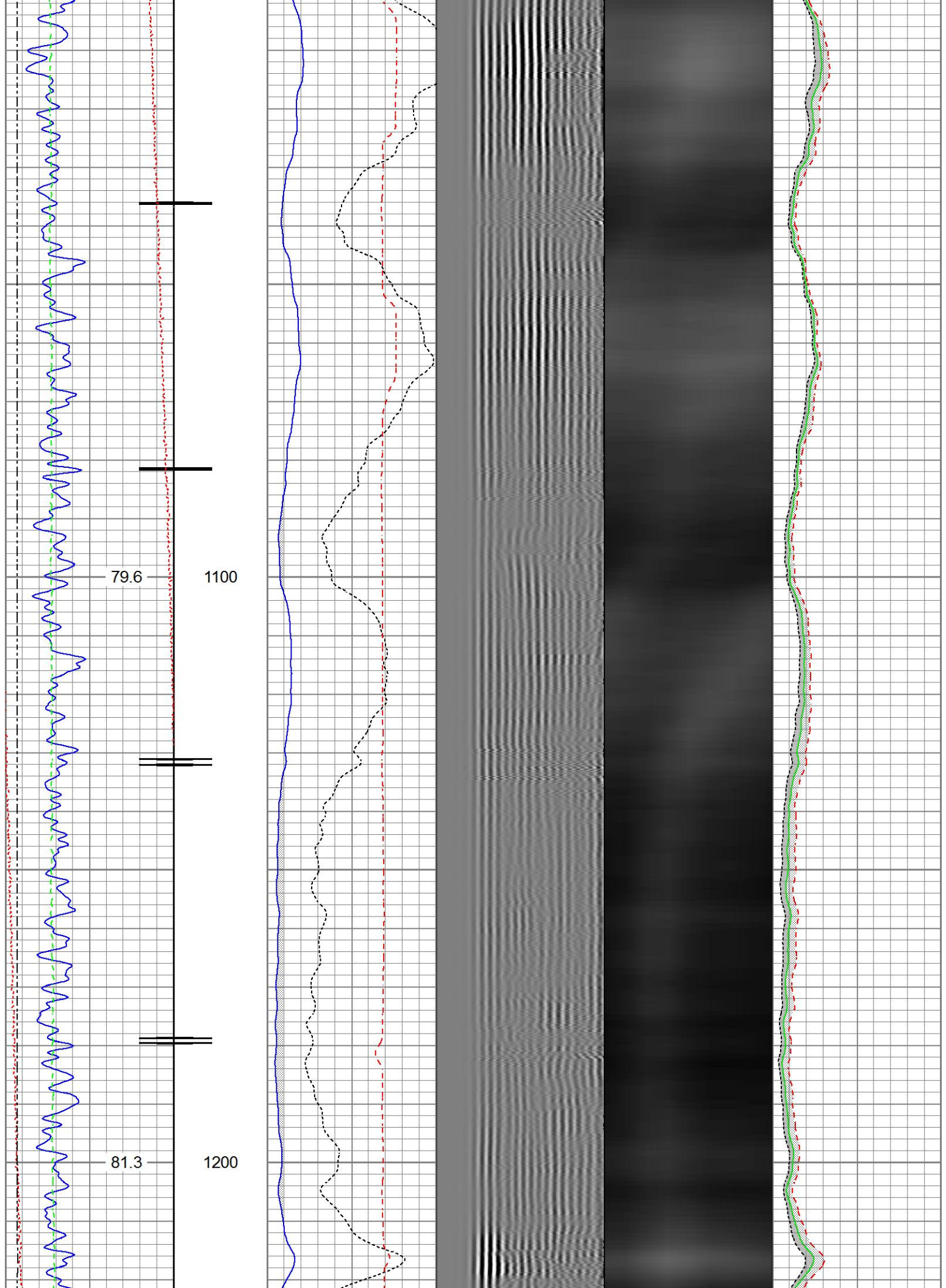


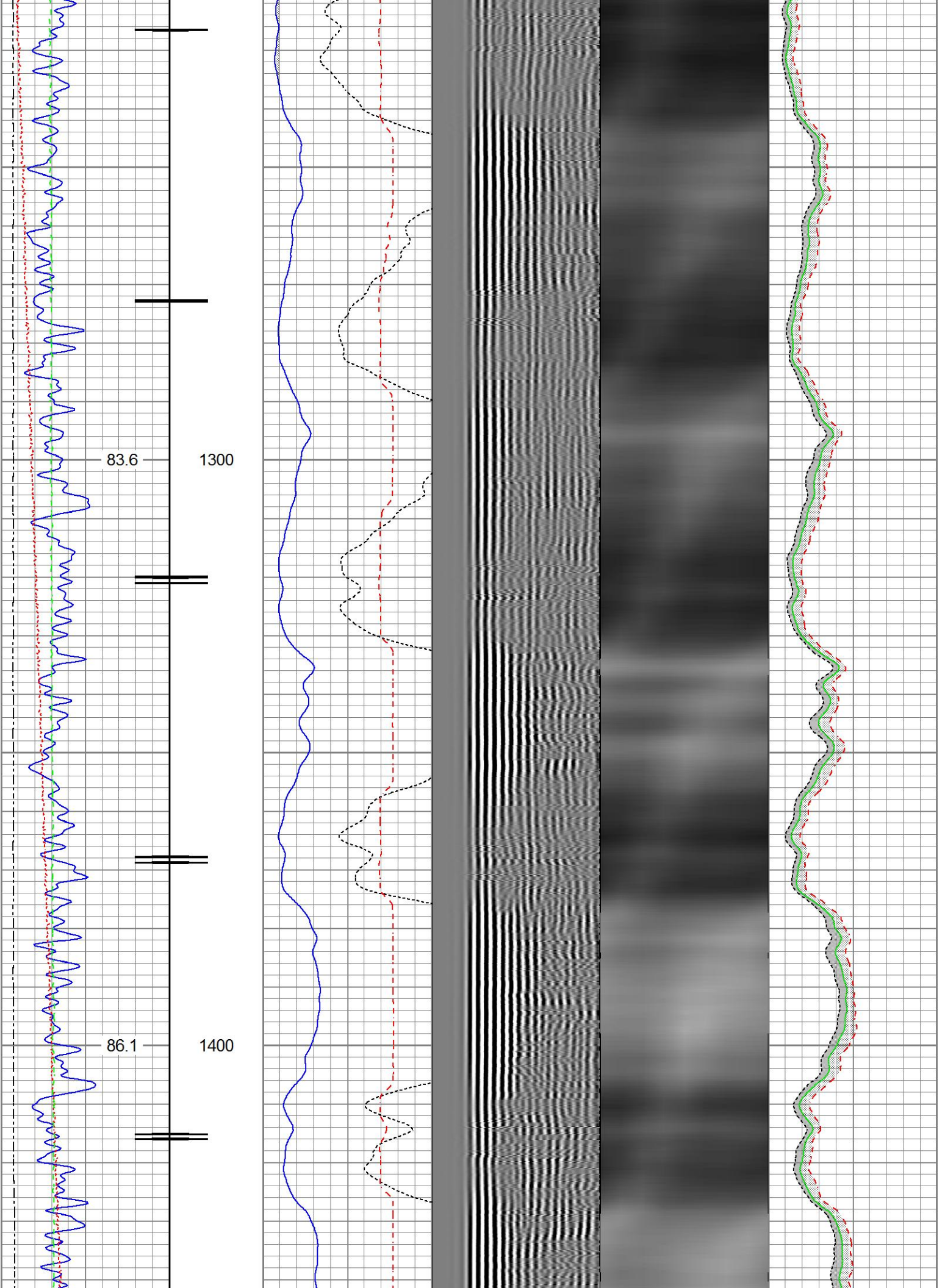


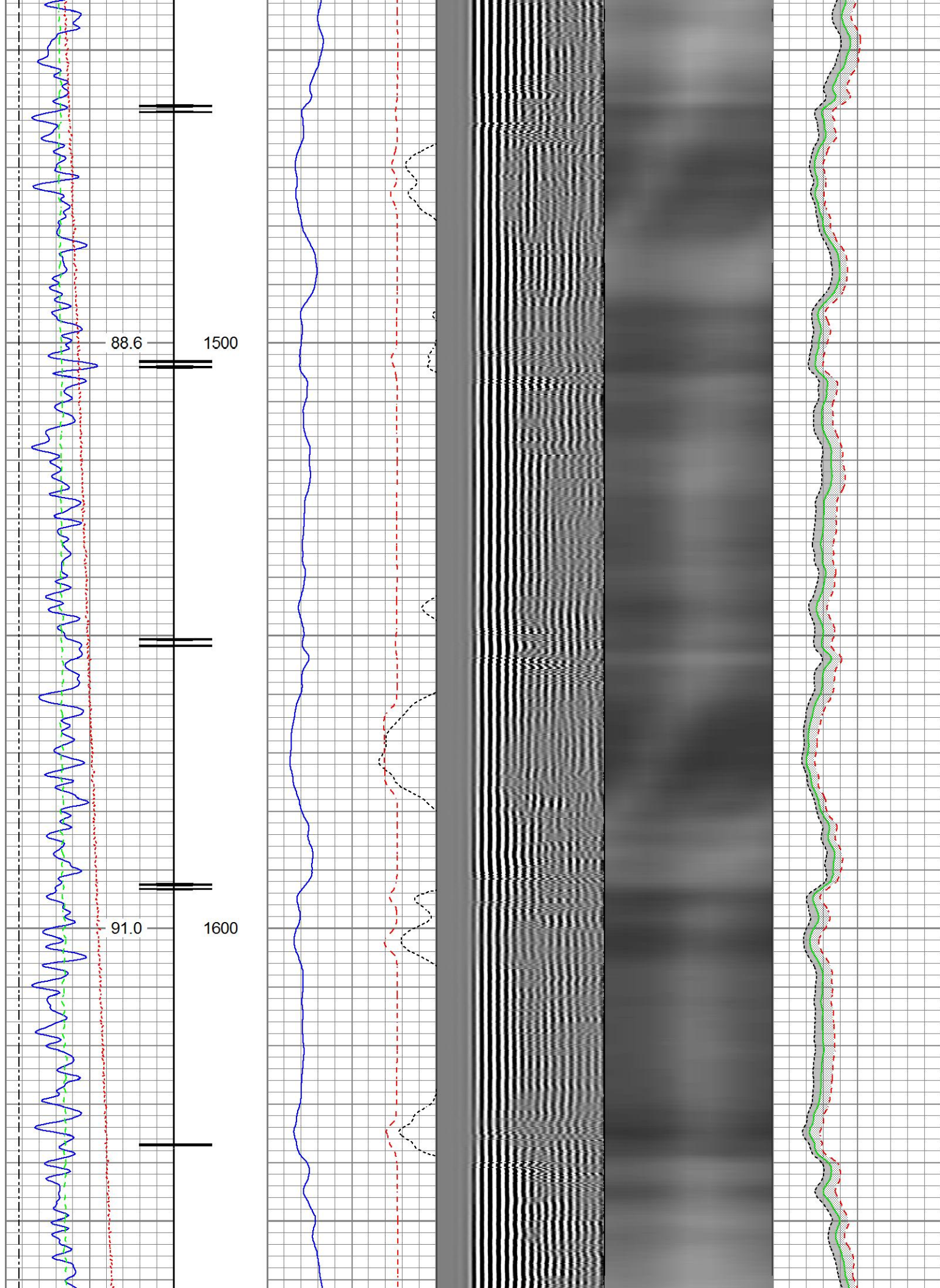


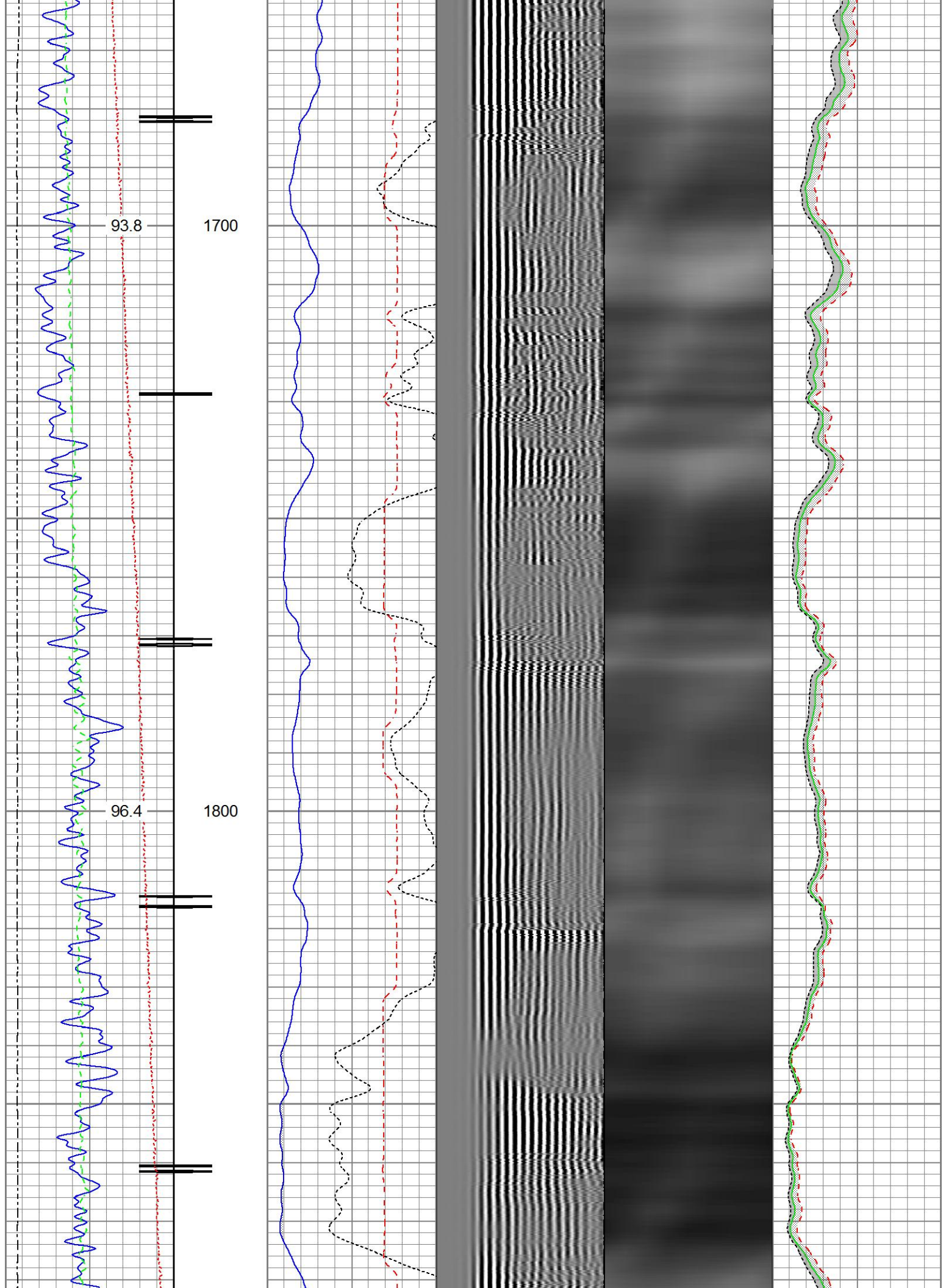


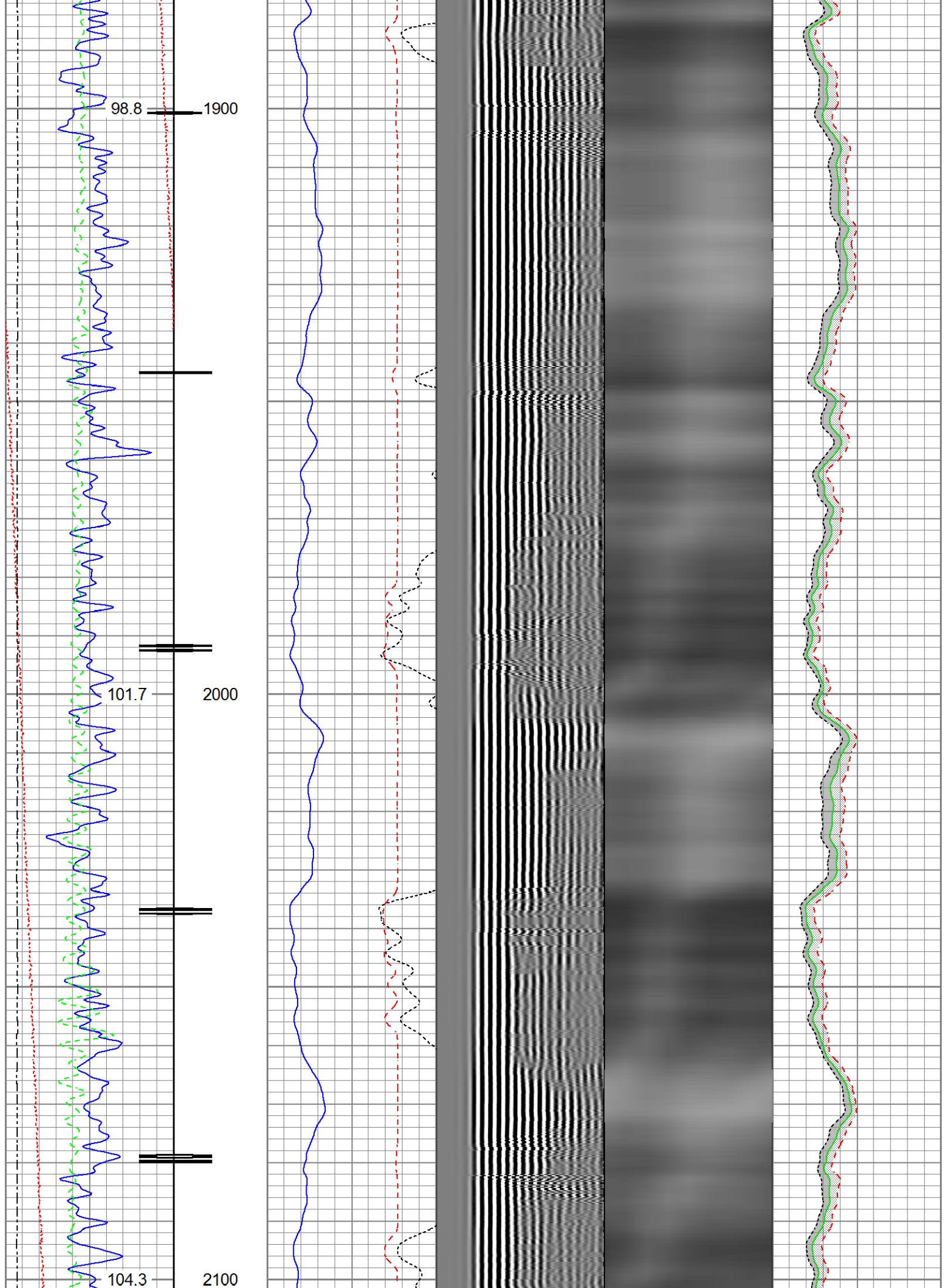


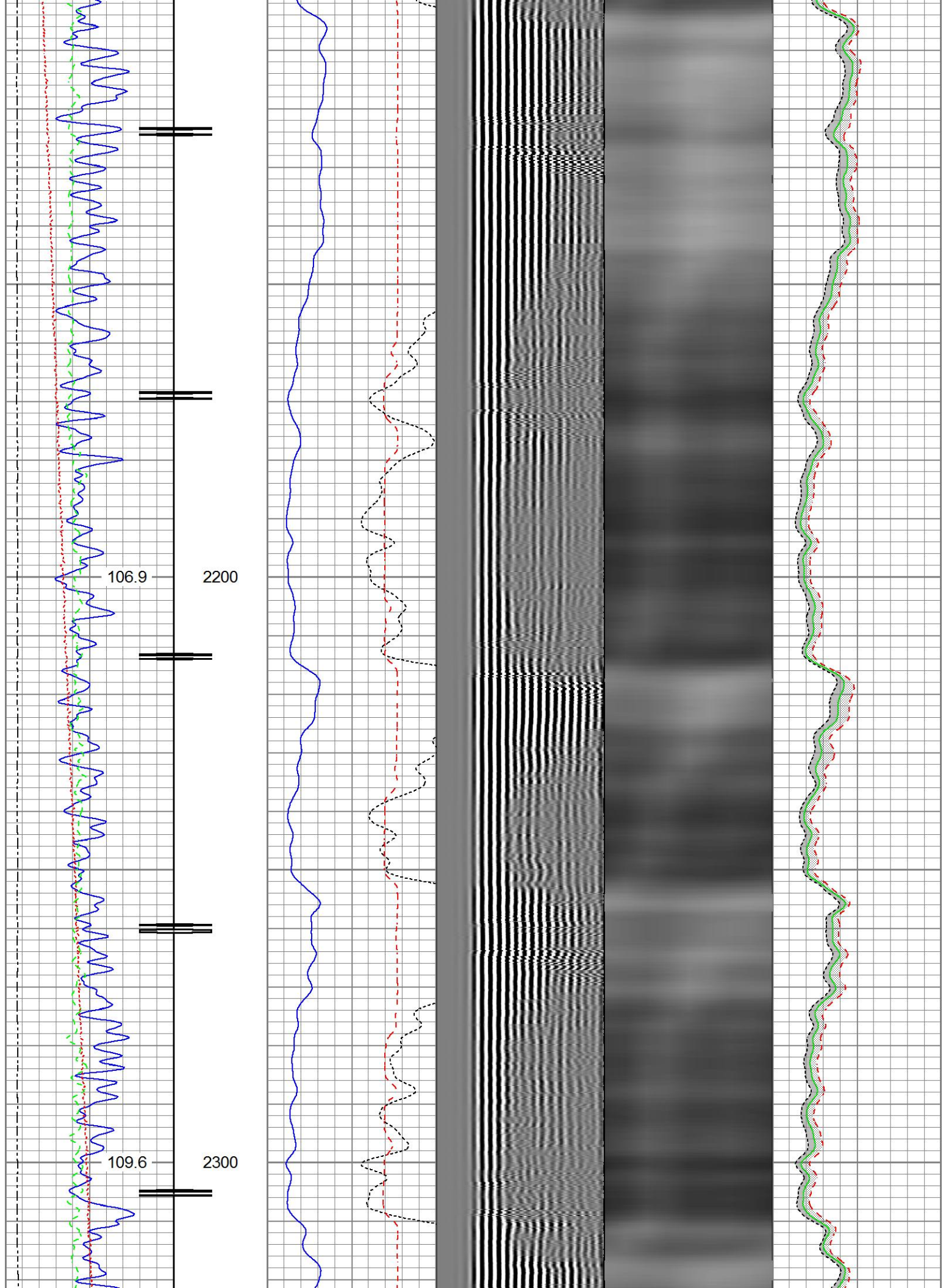


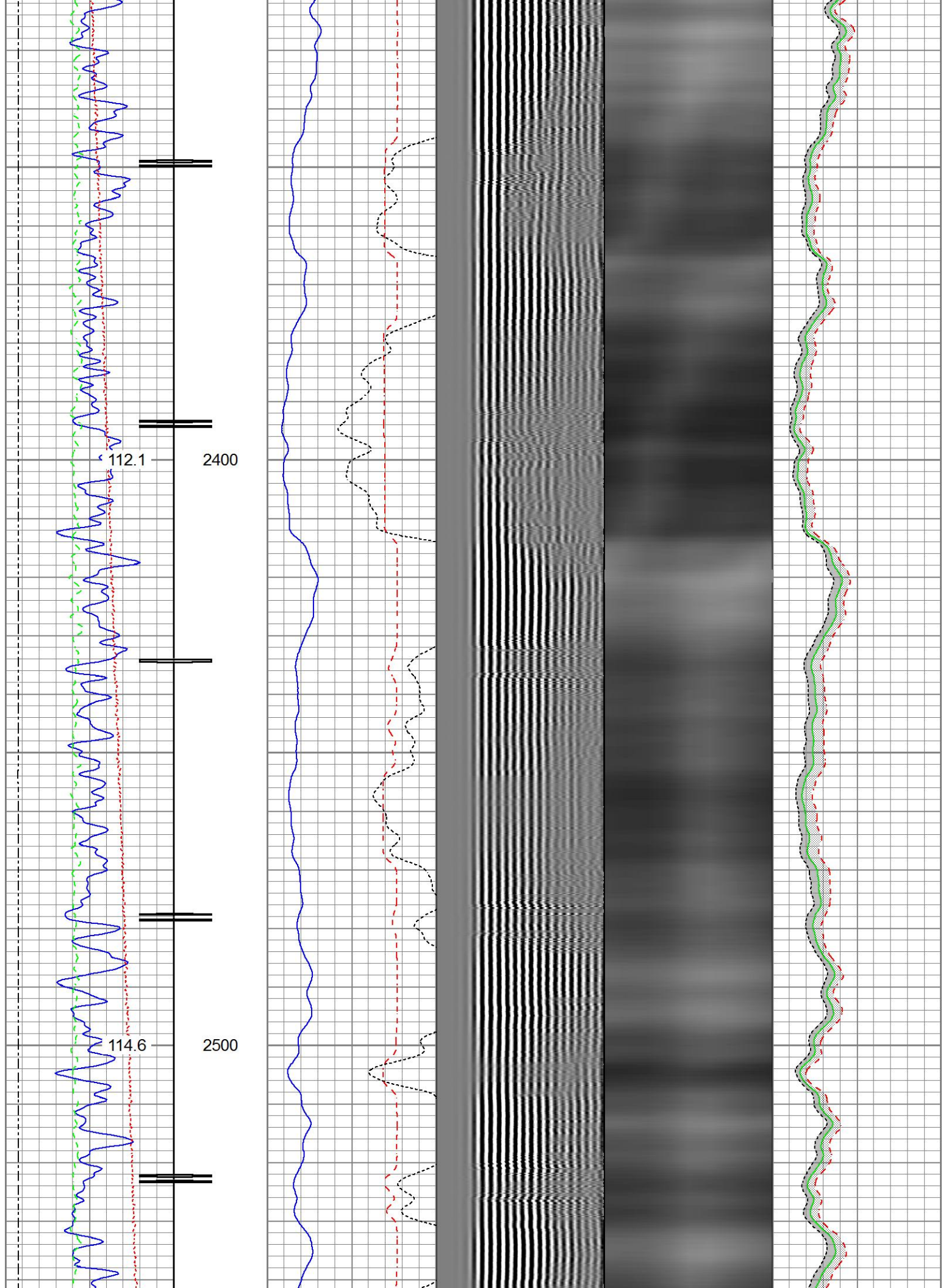


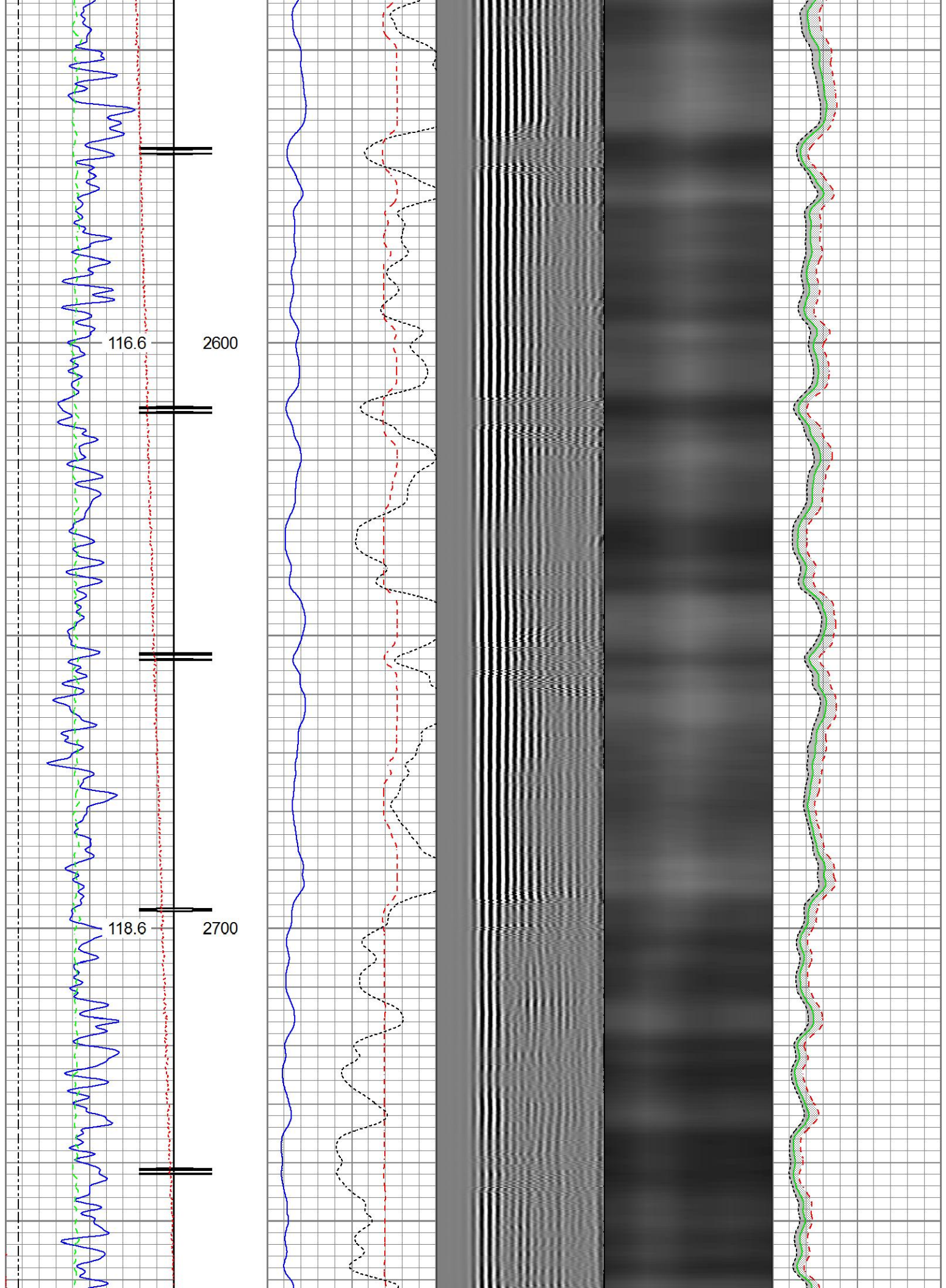


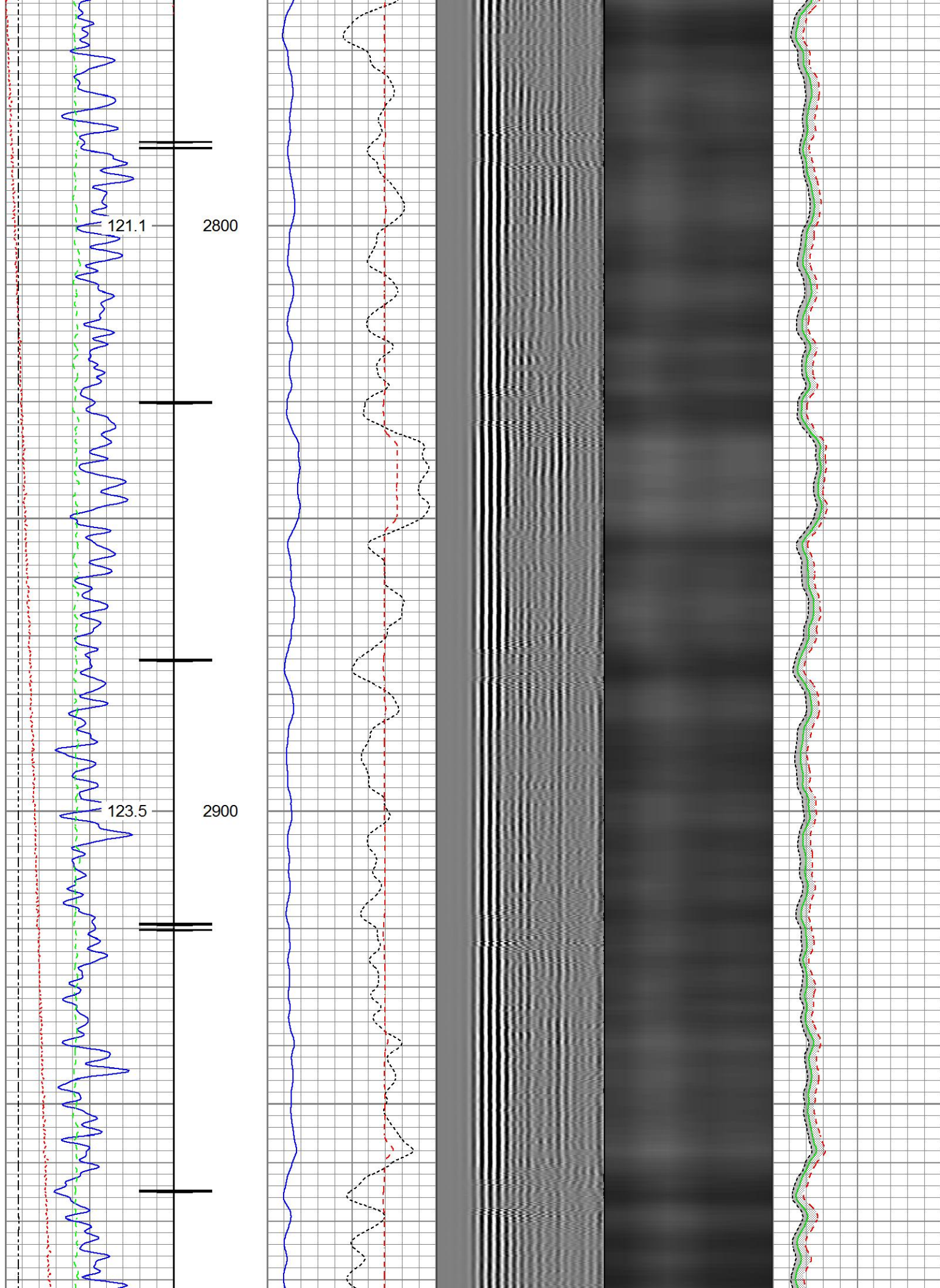


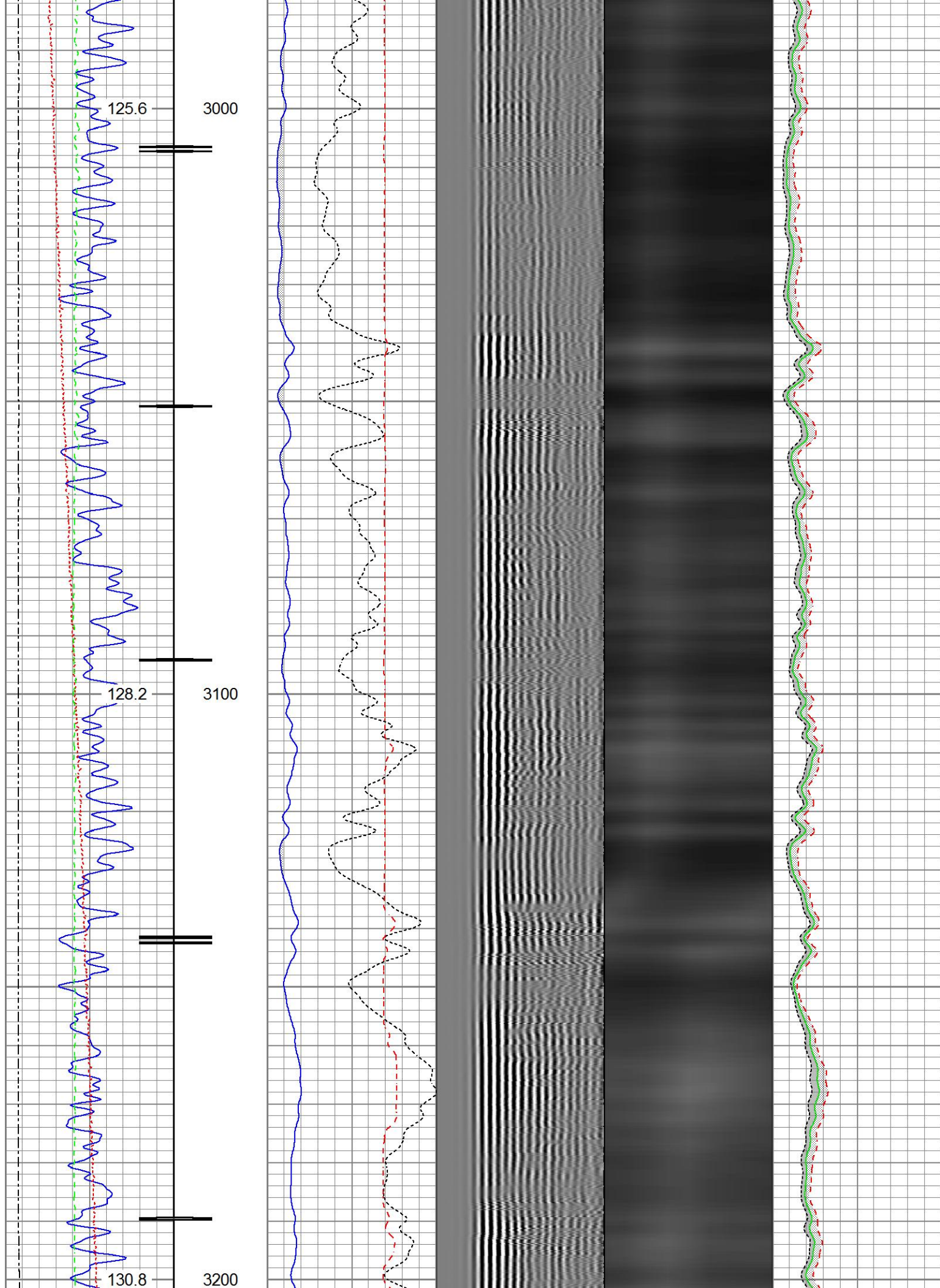


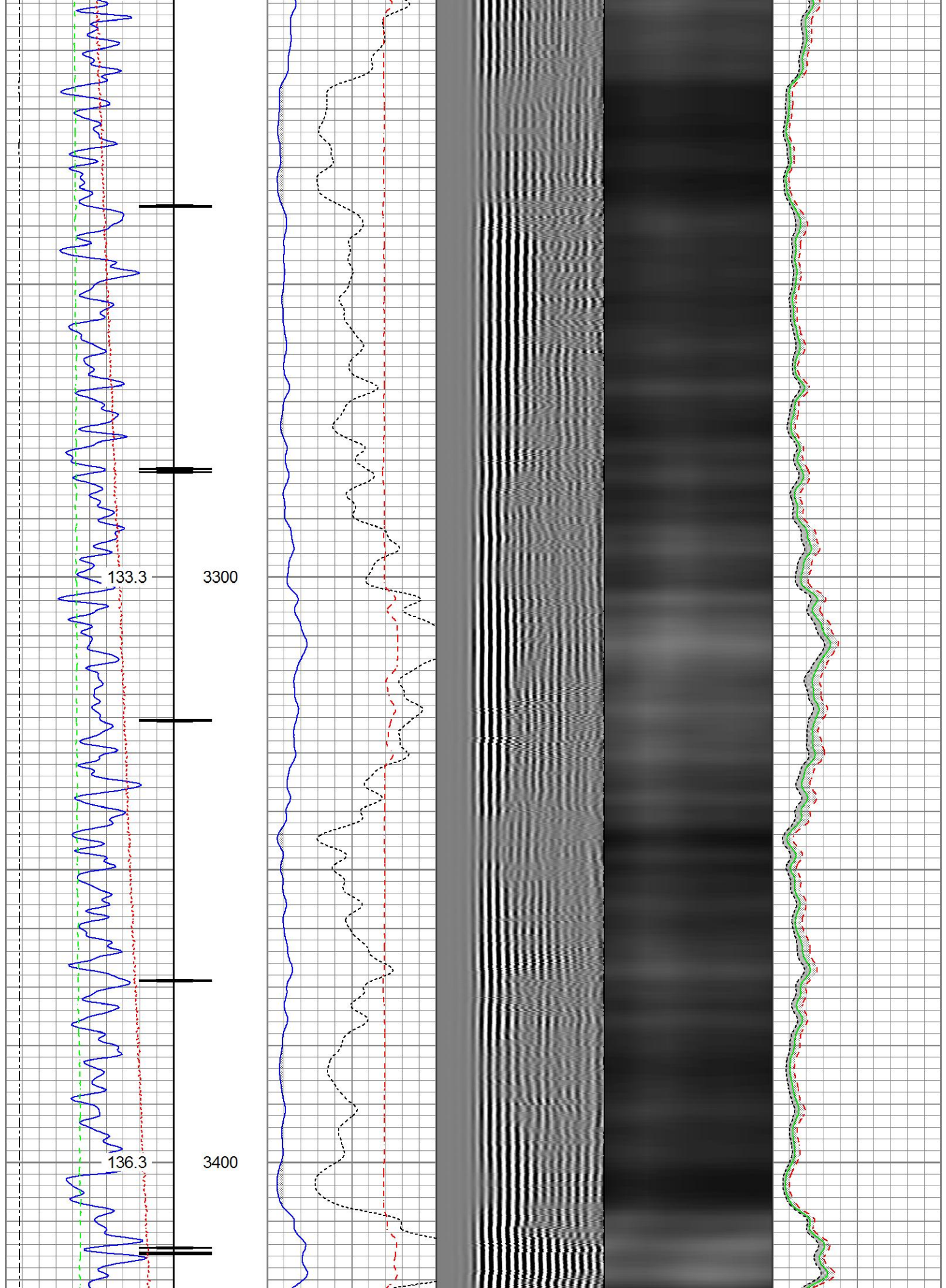


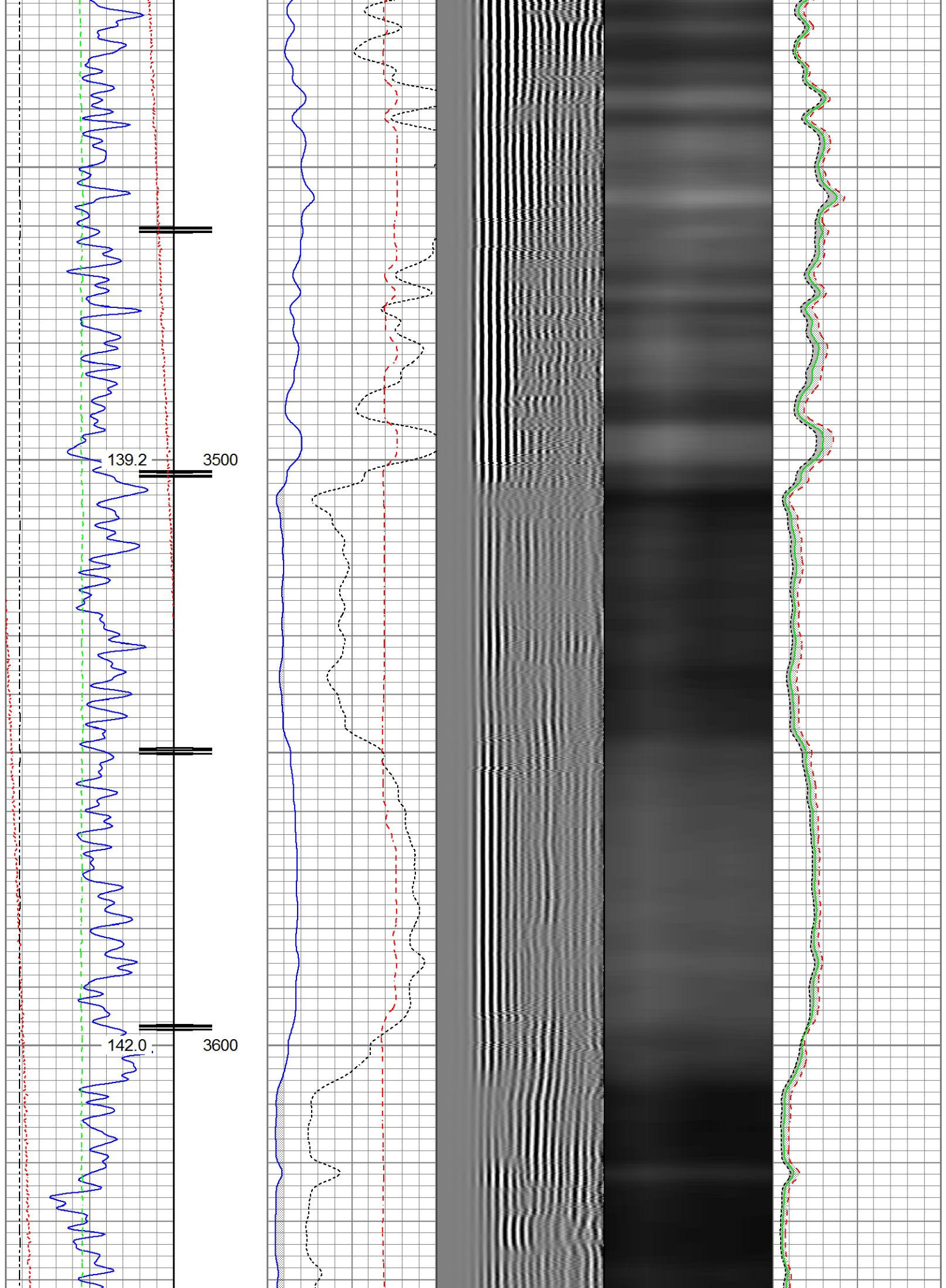


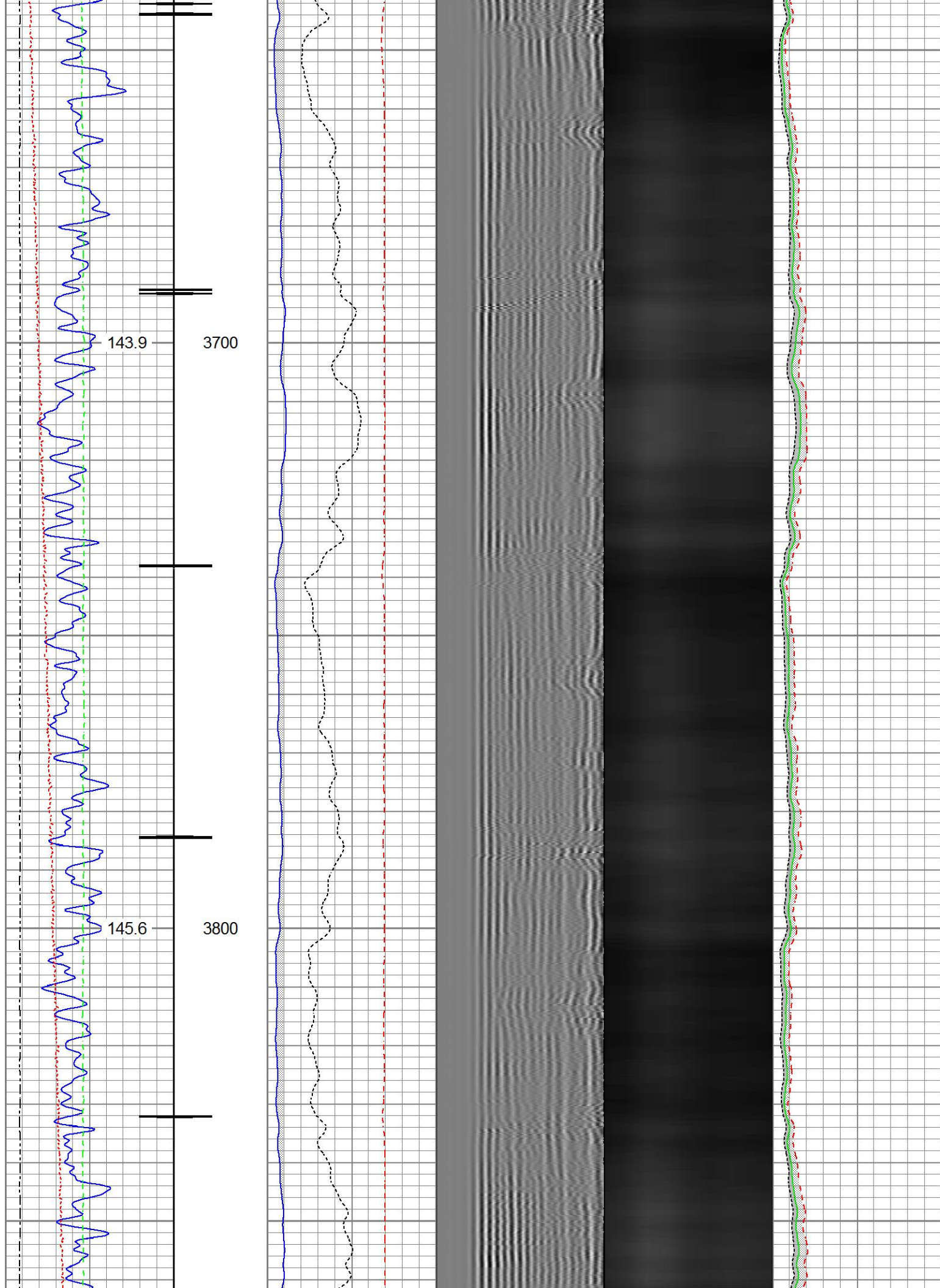


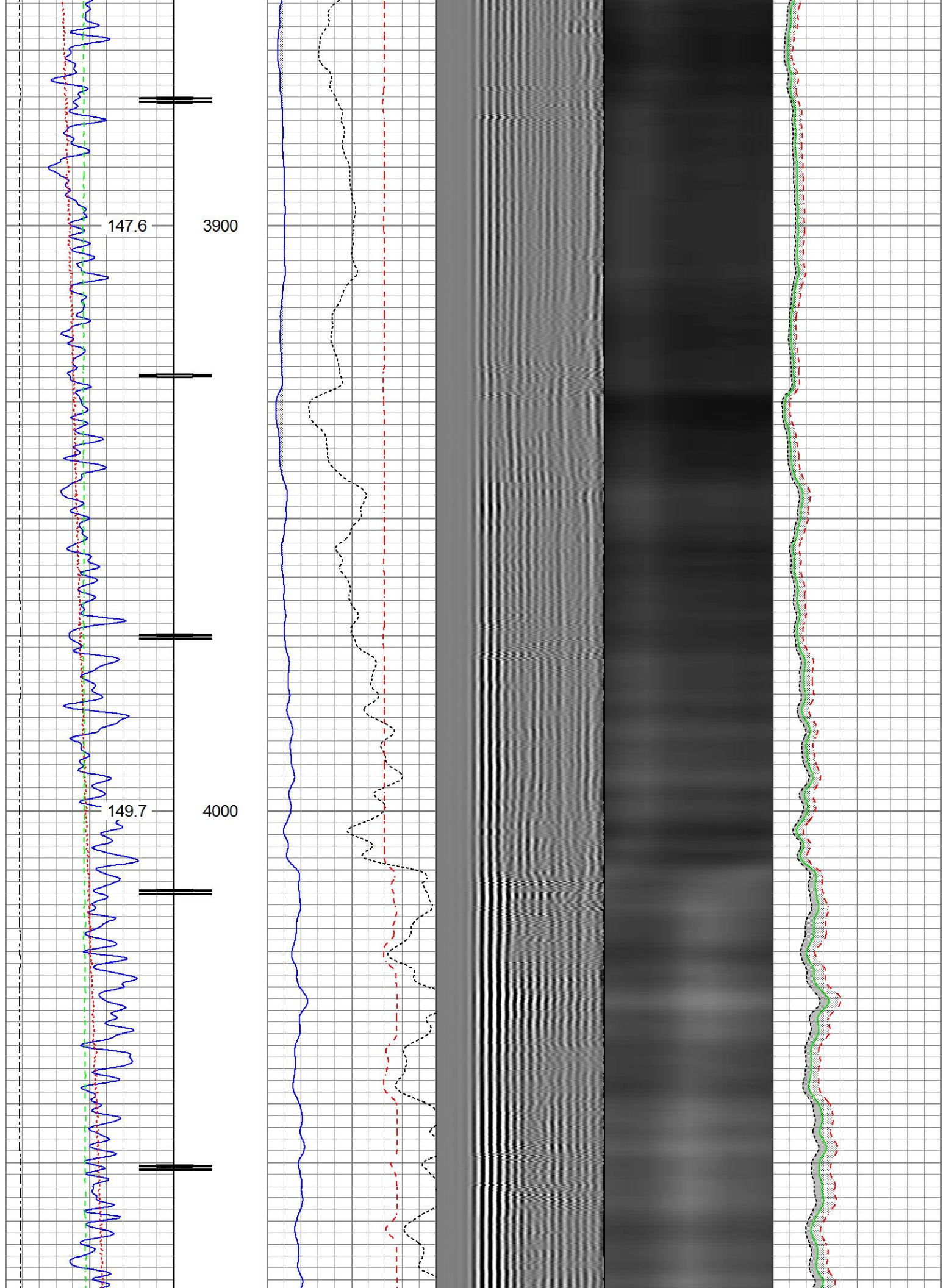


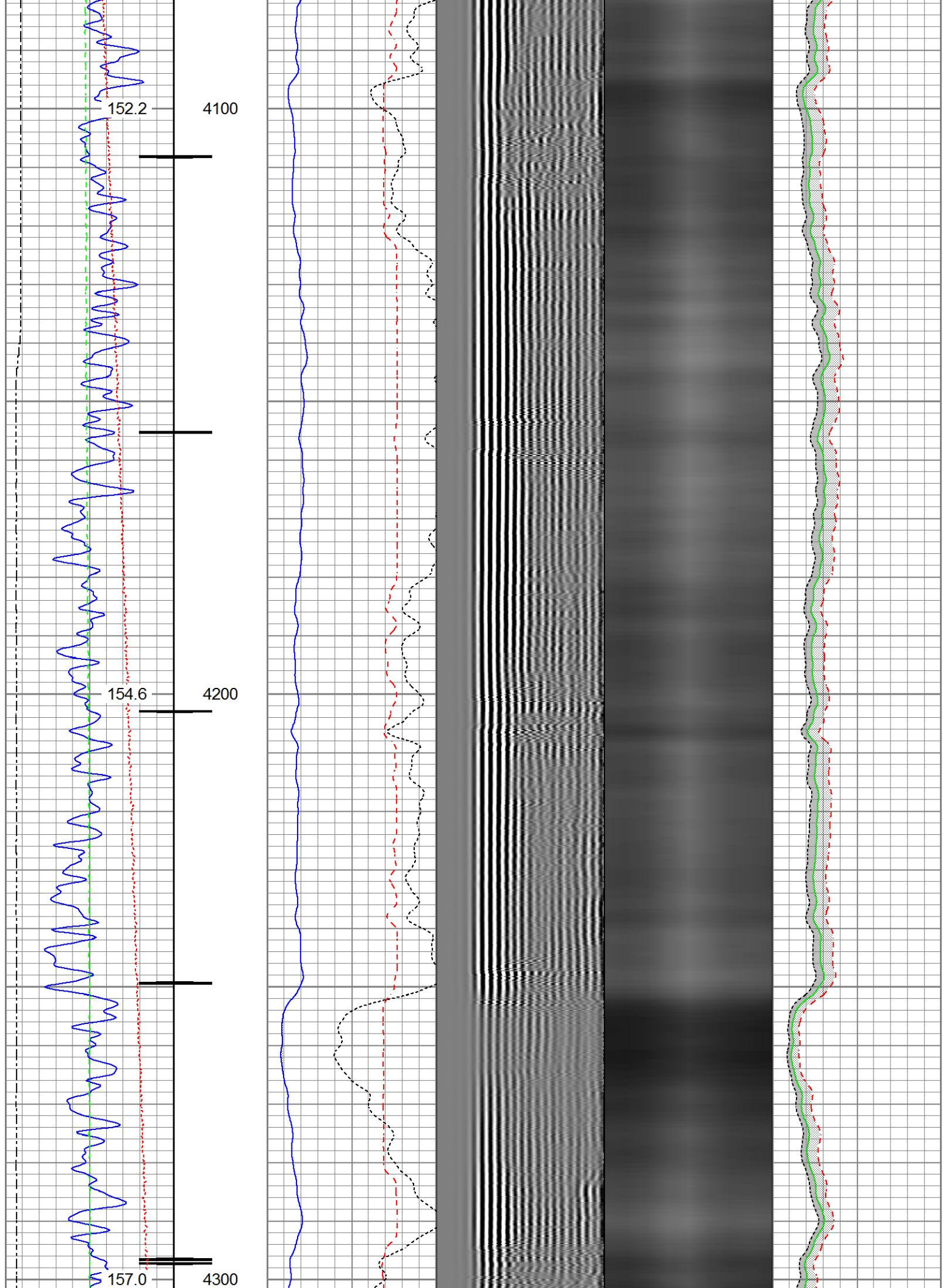


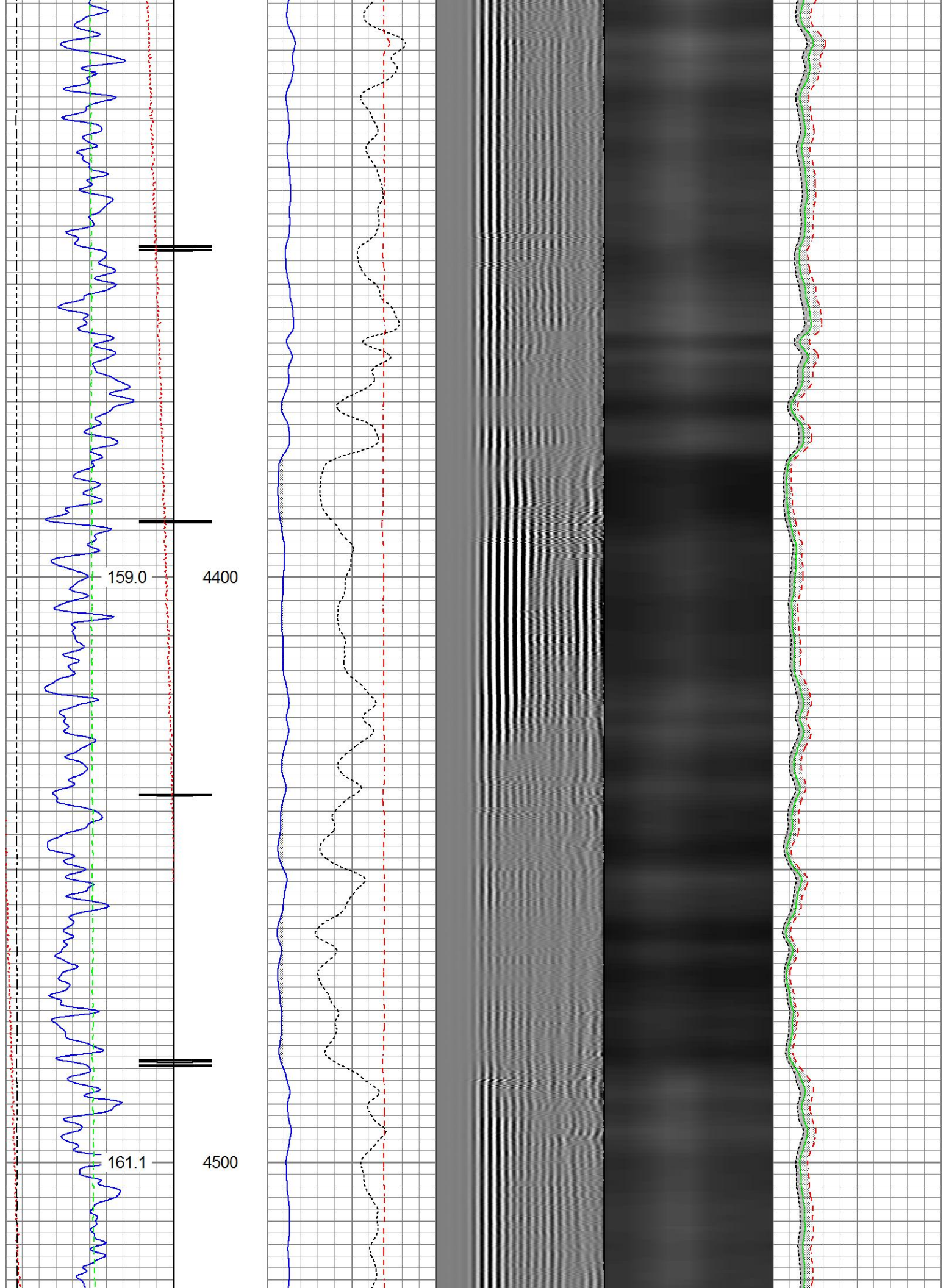


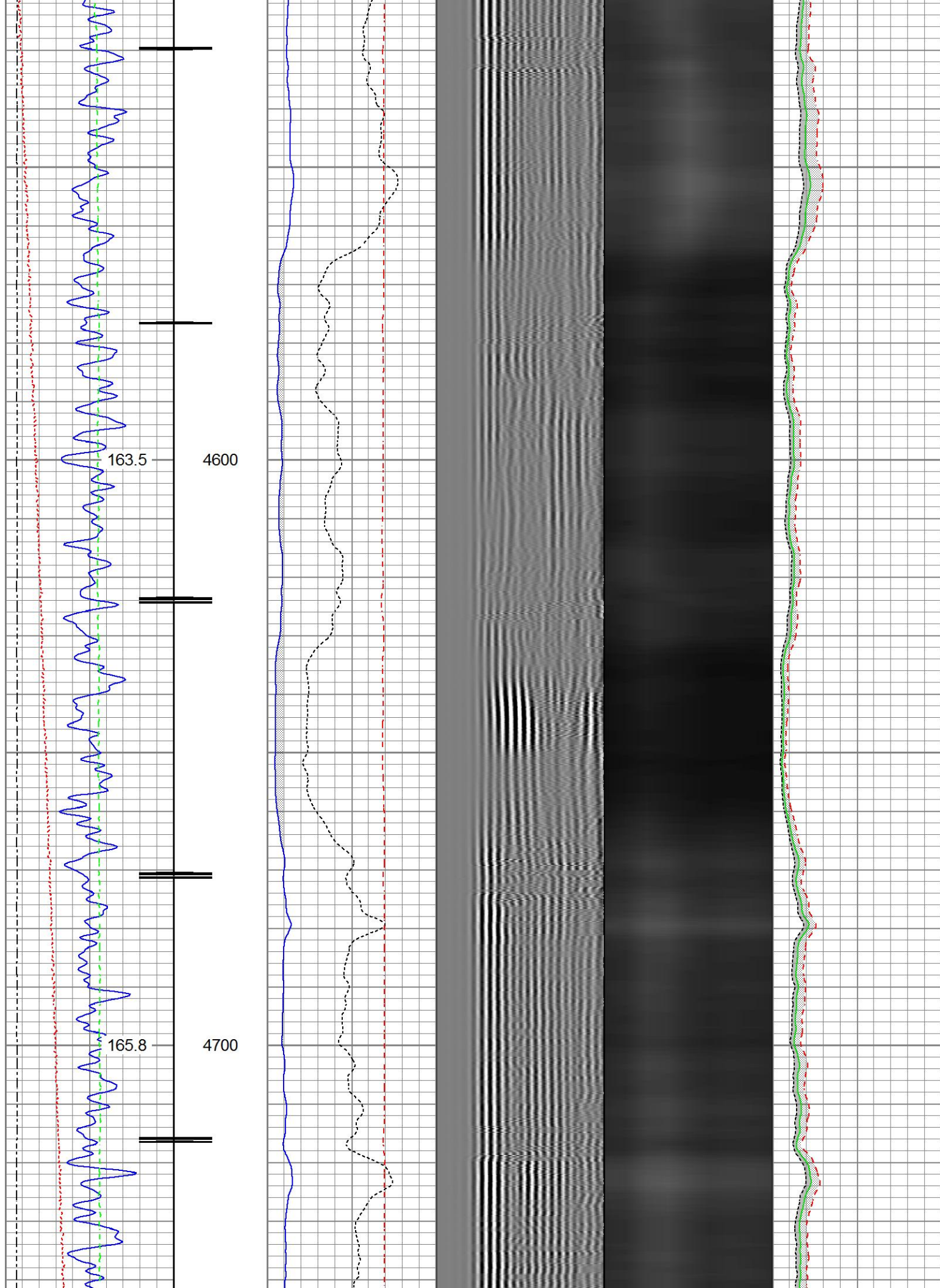


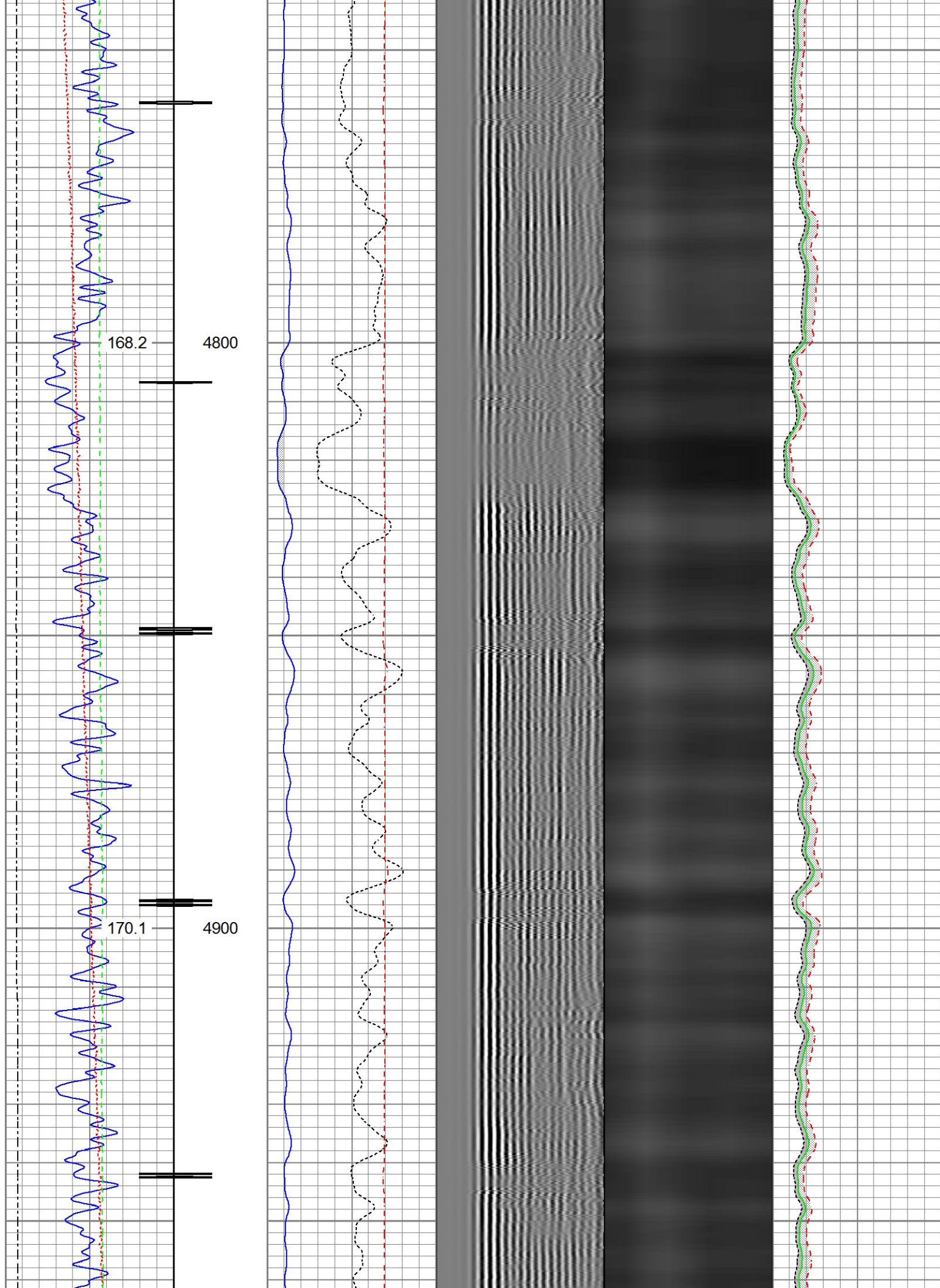


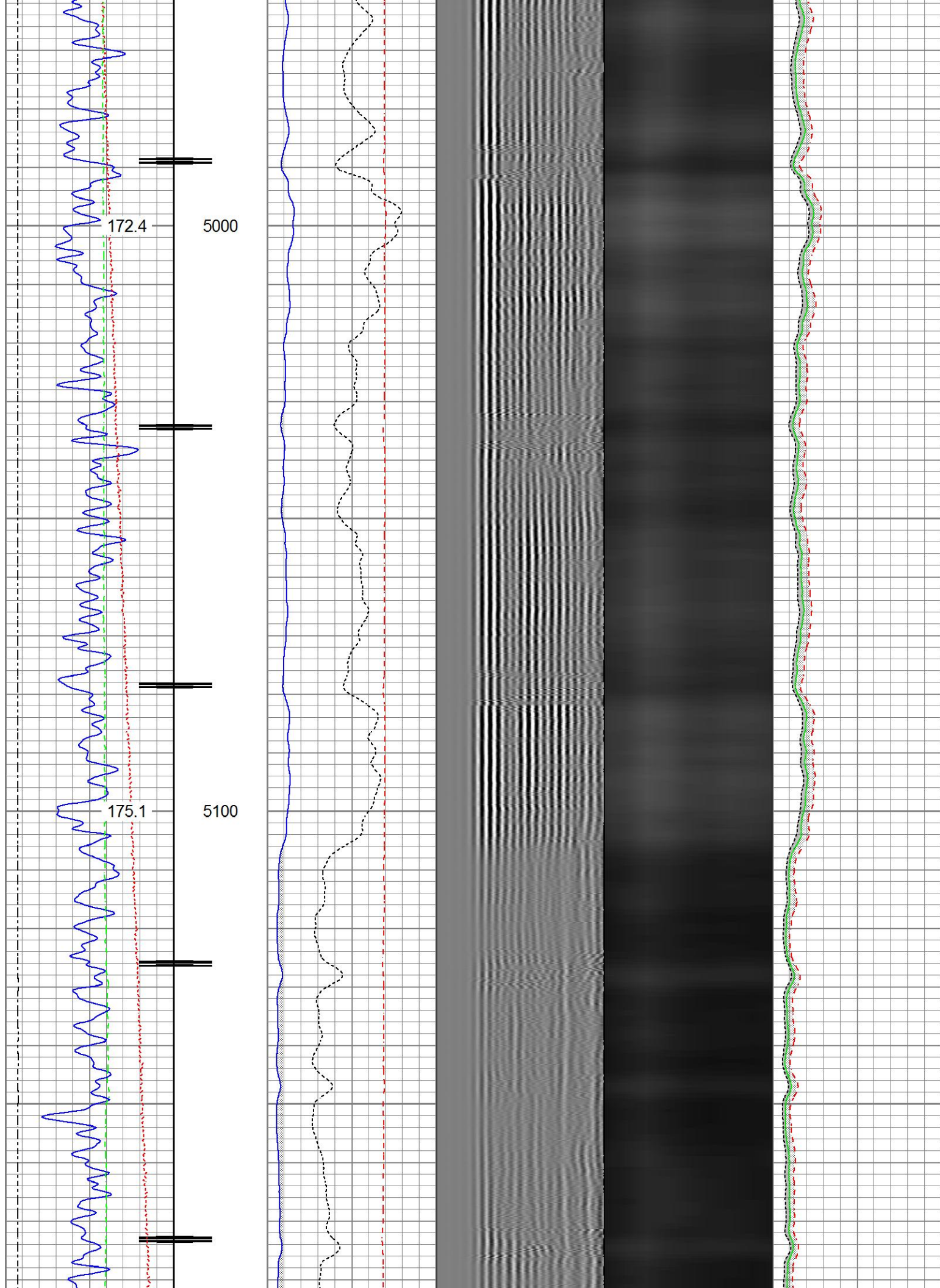


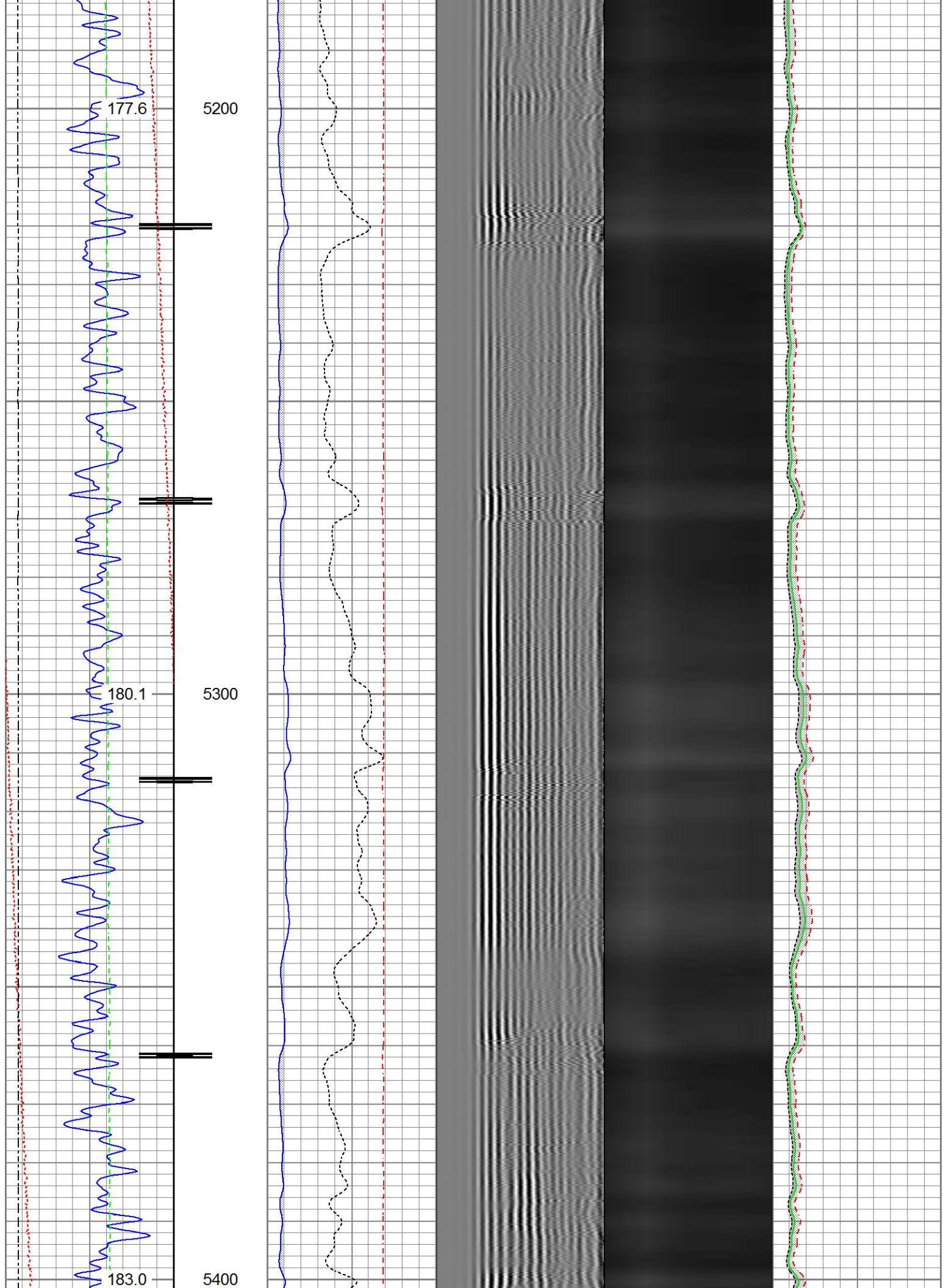


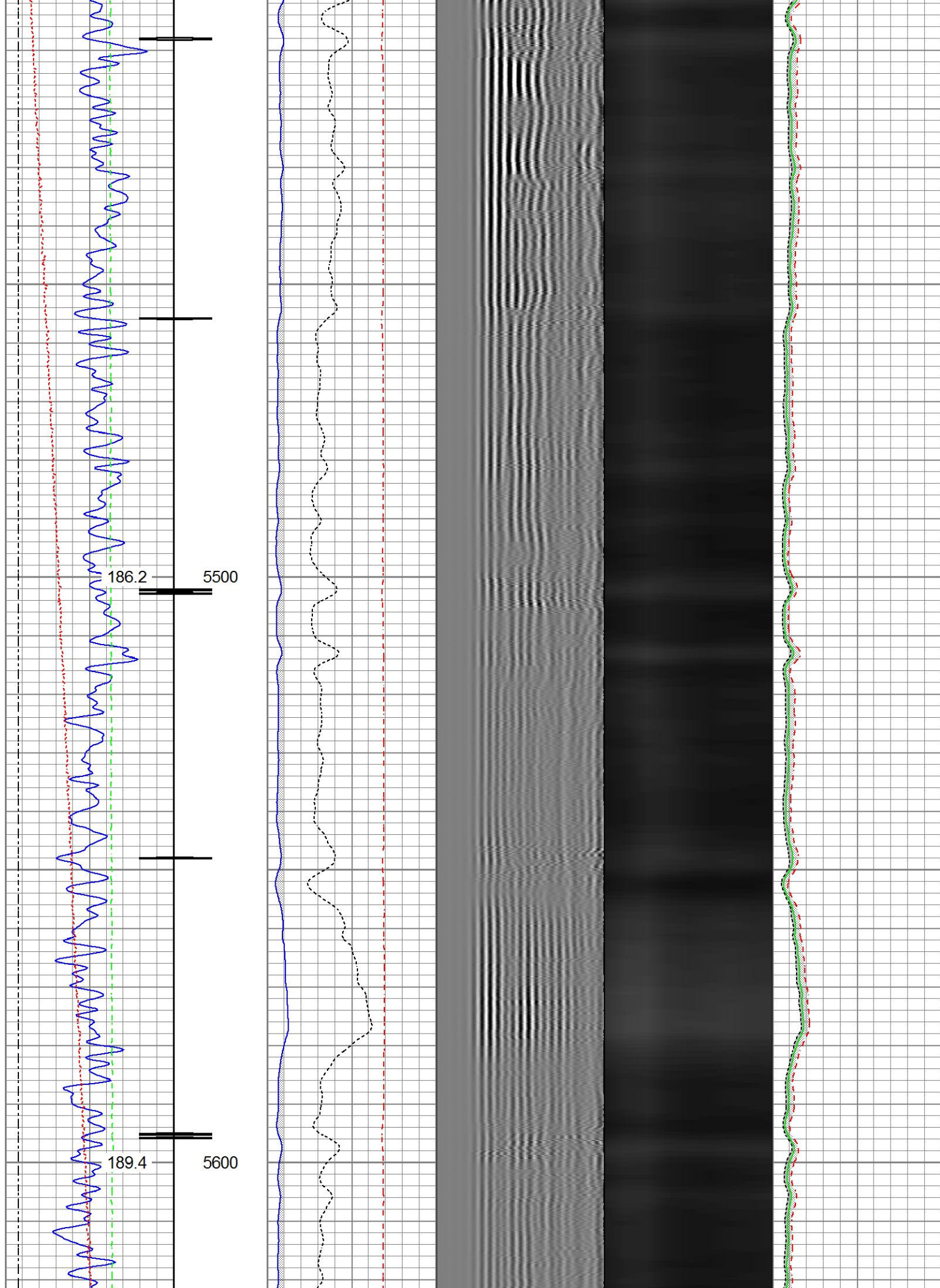


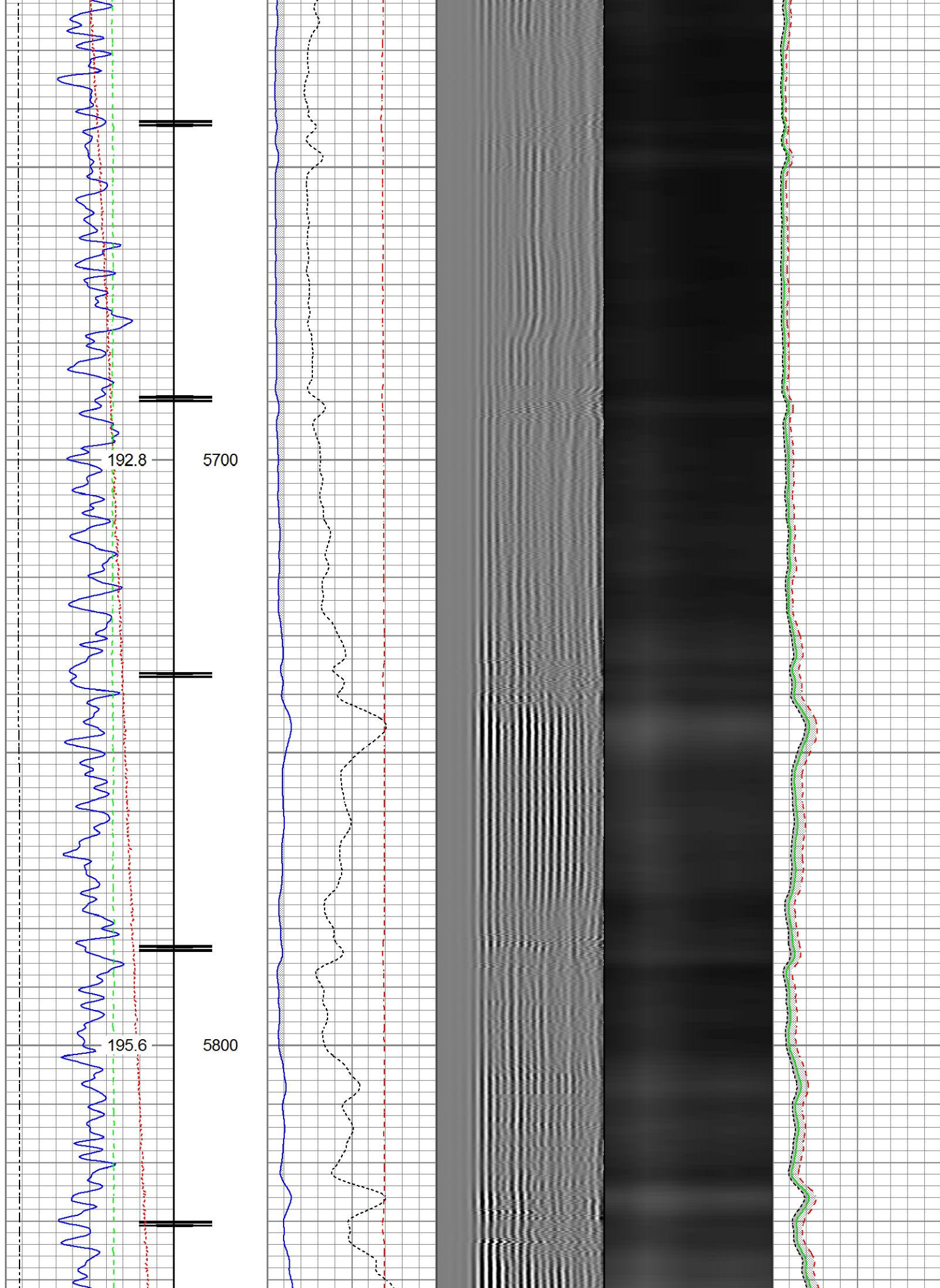


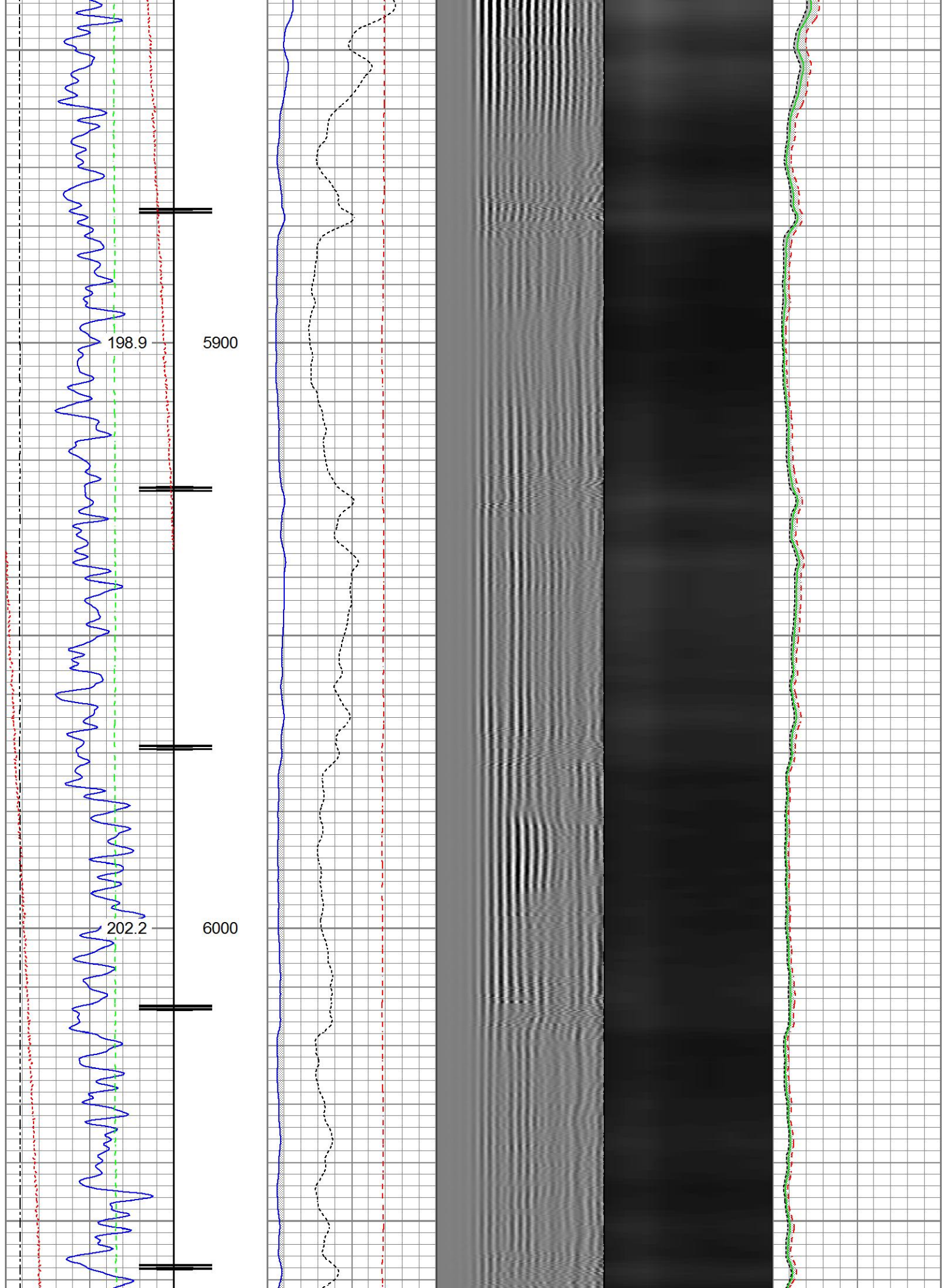


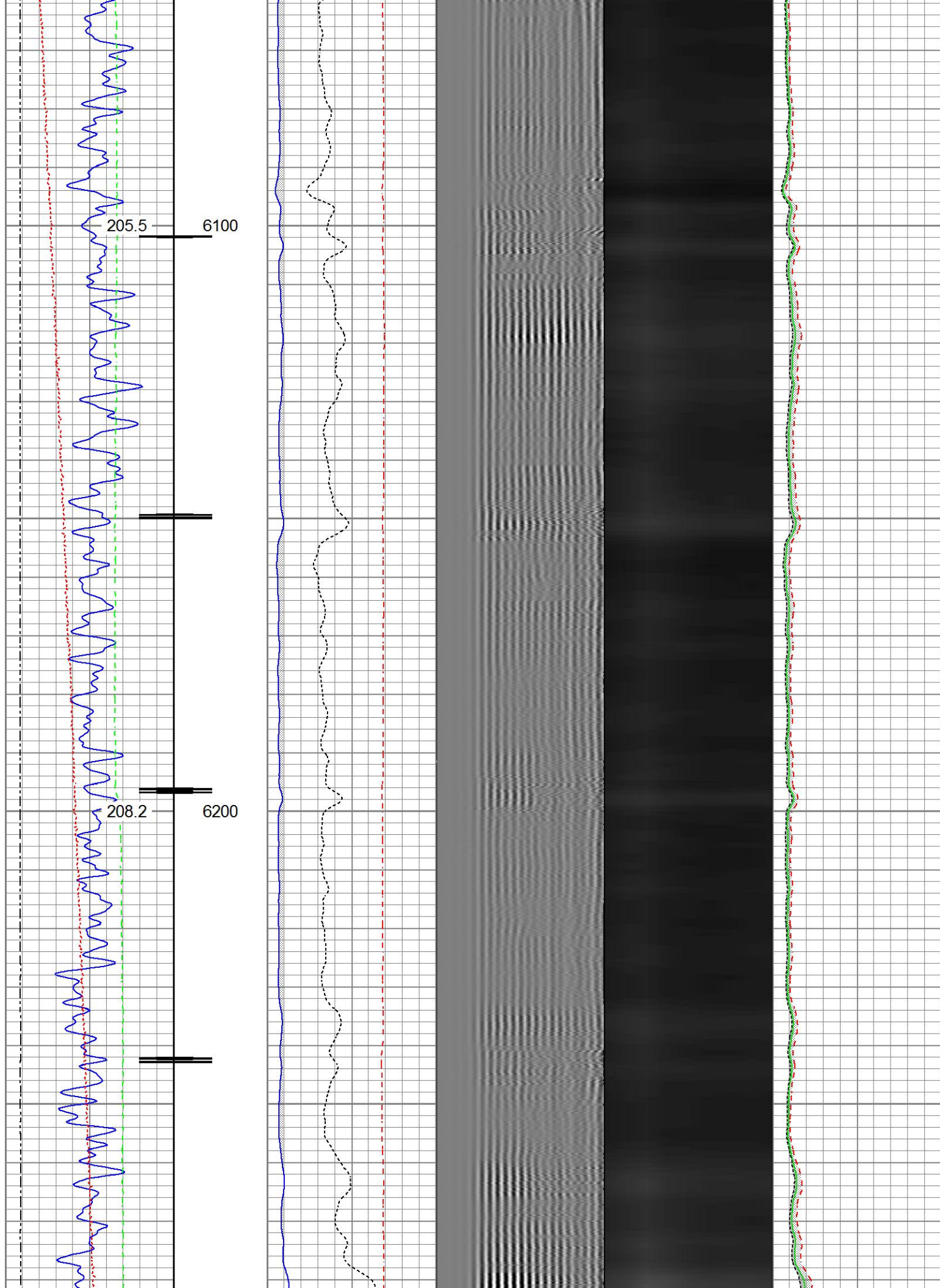


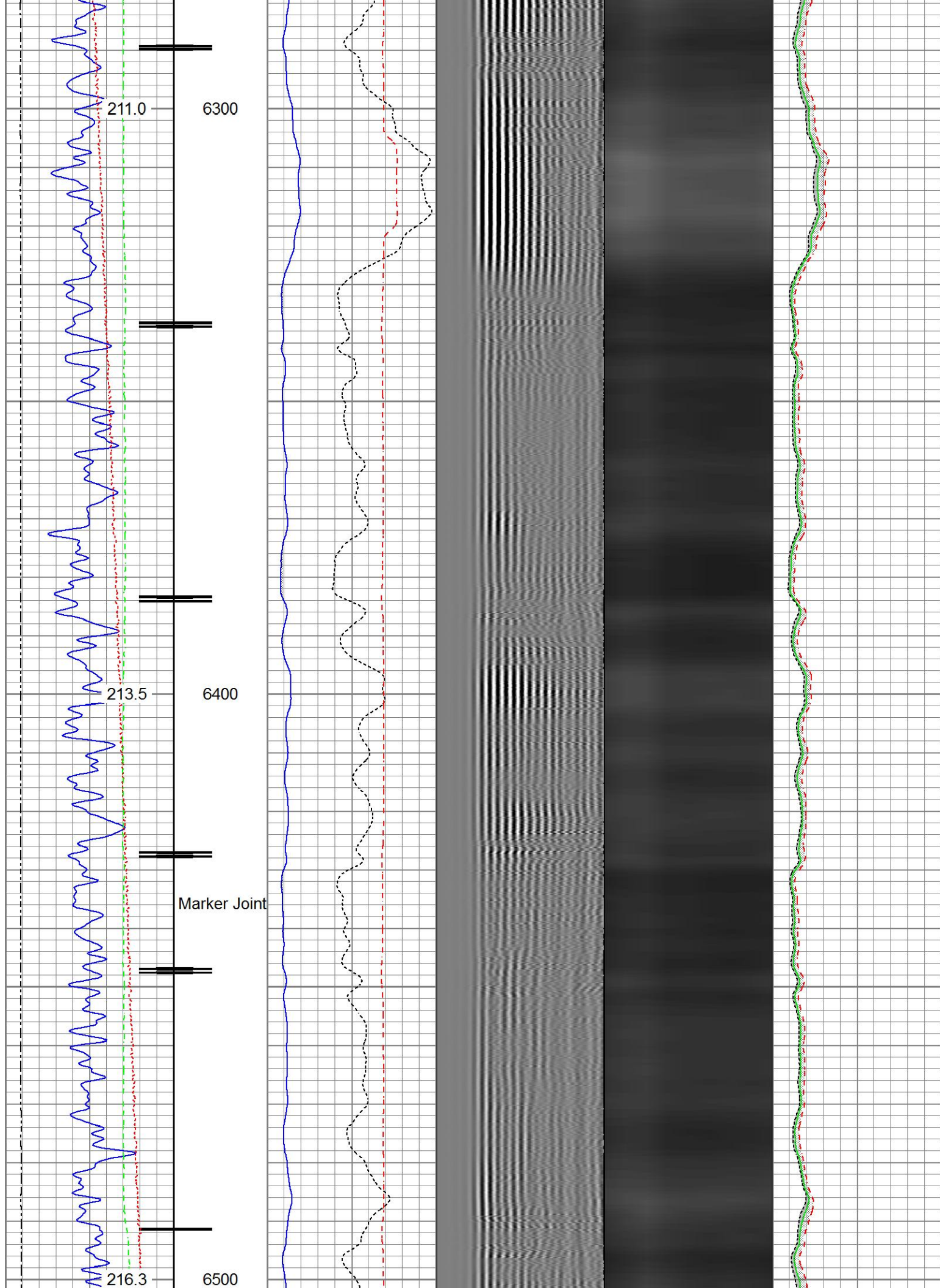


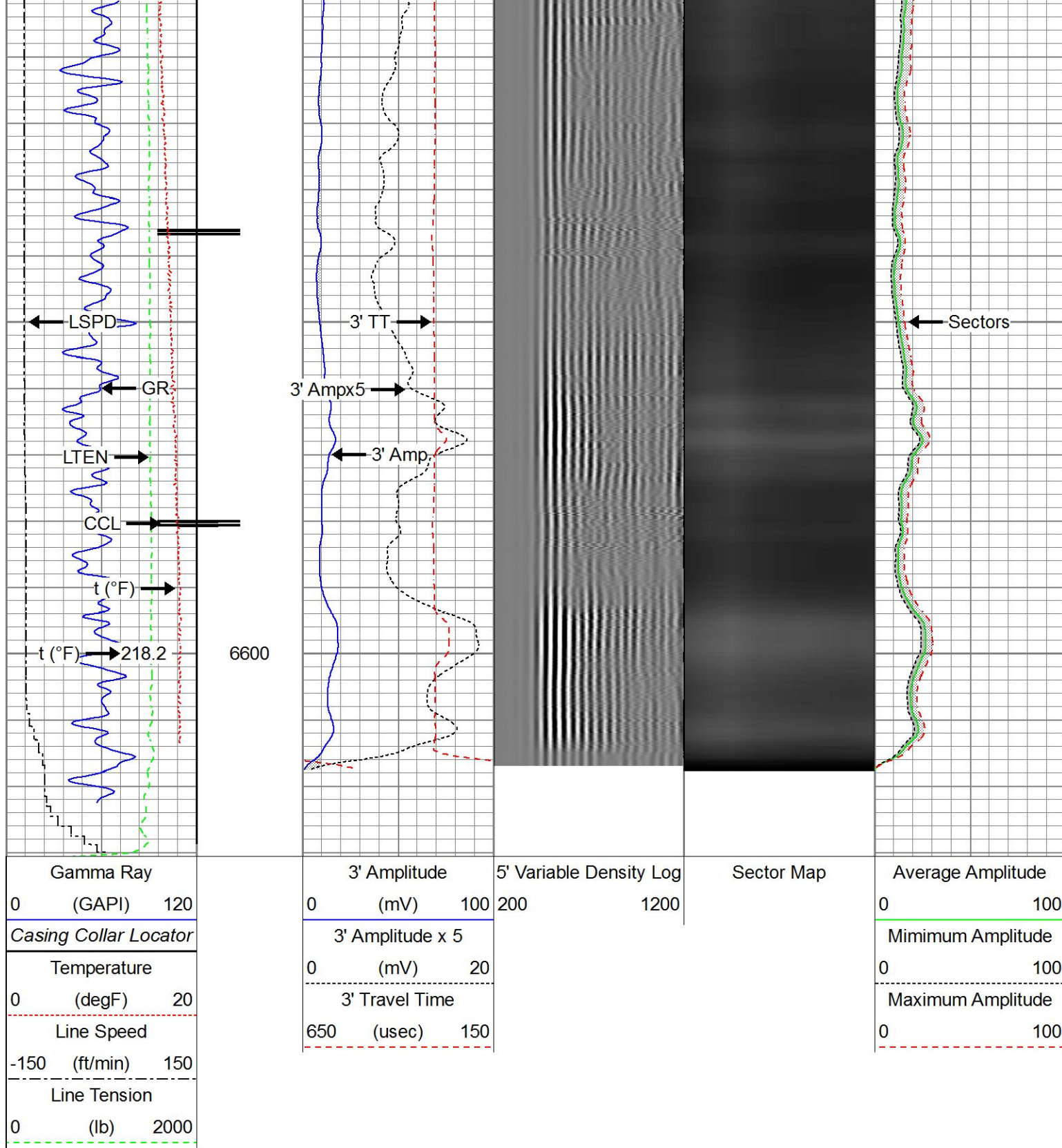










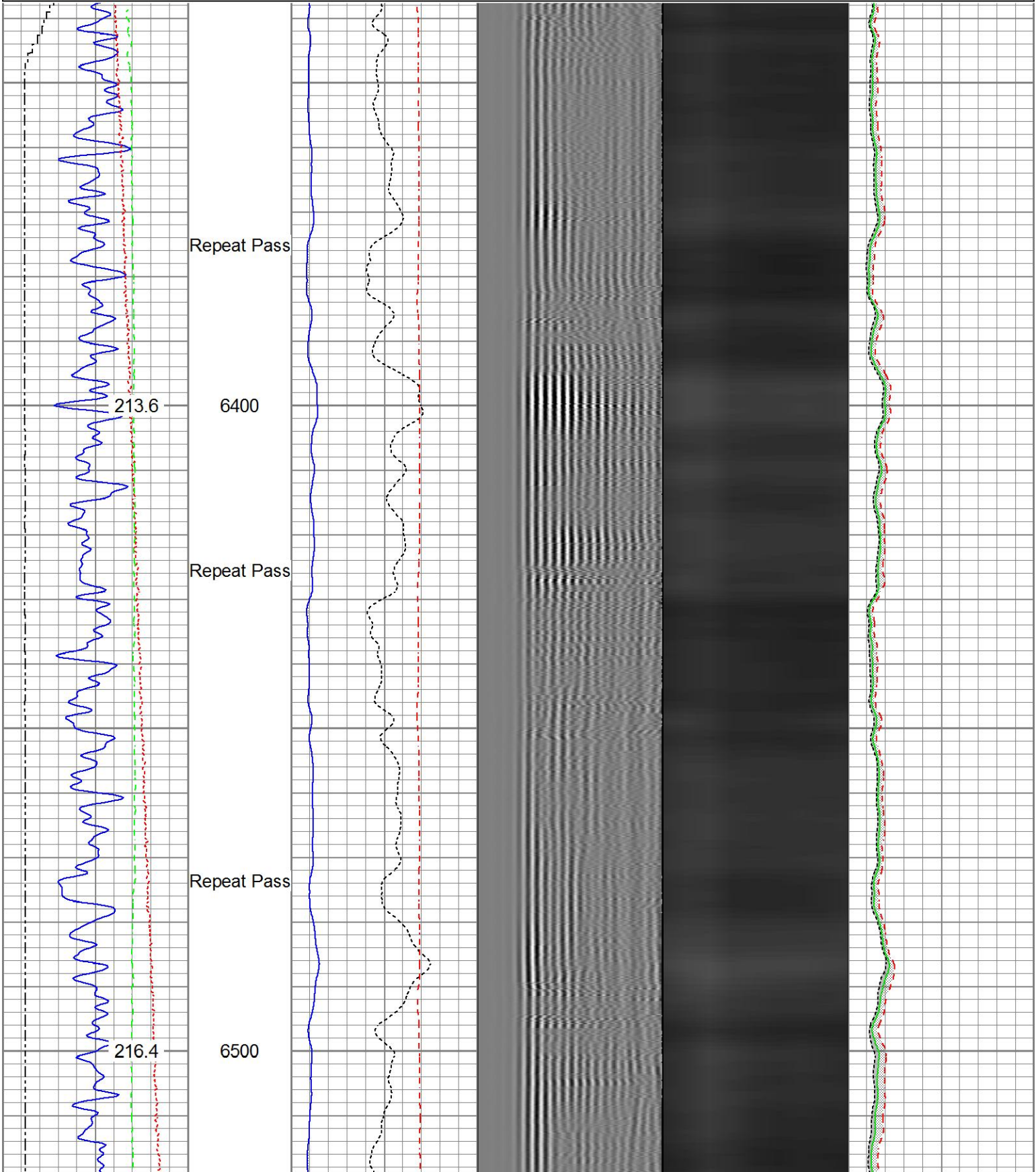


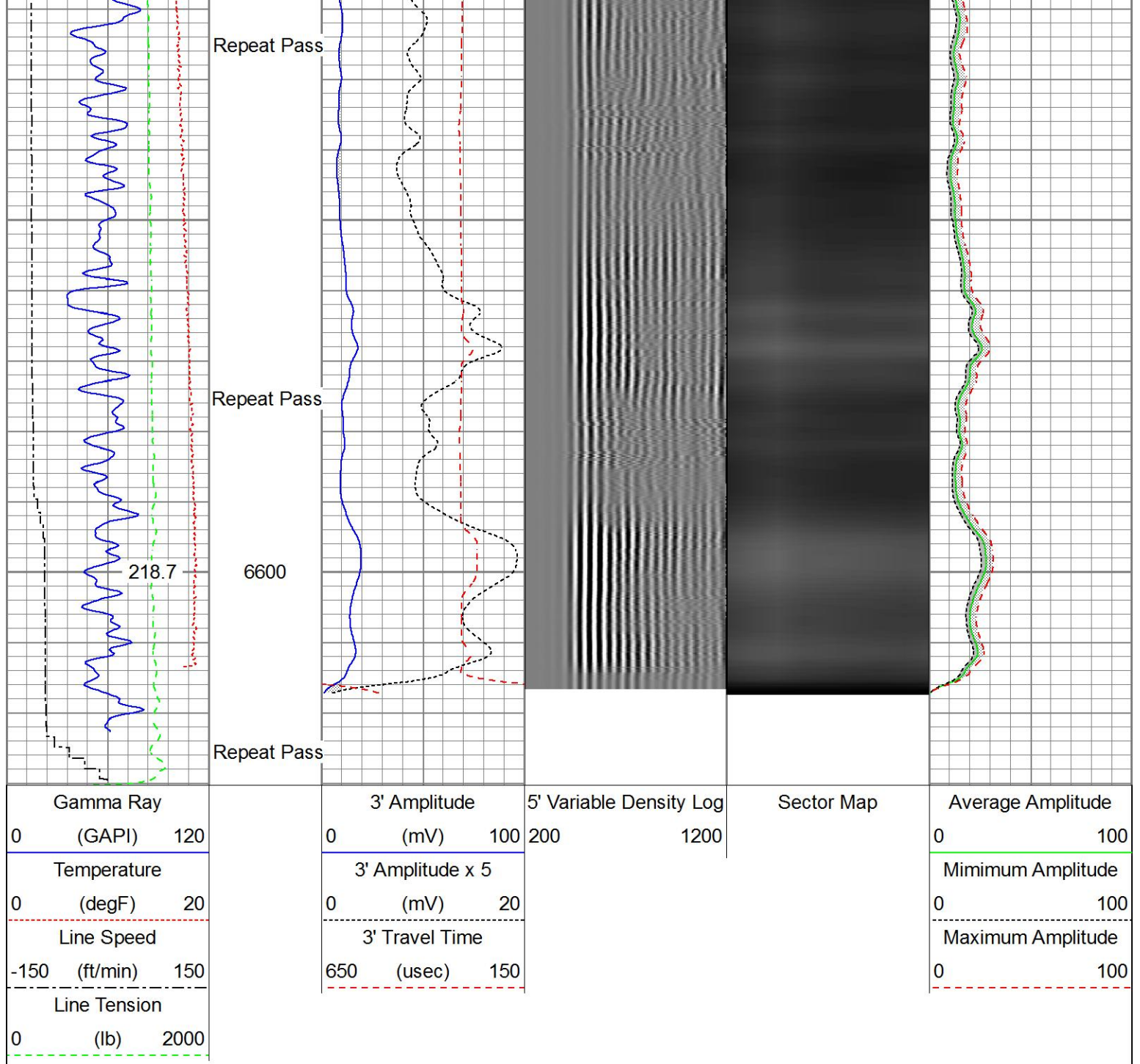
Repeat Pass

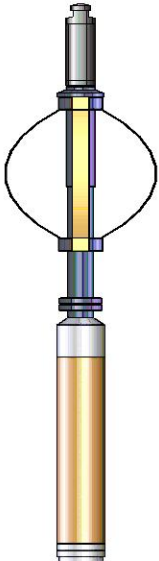
Recorded With 2000 PSI Surface Induced Pressure

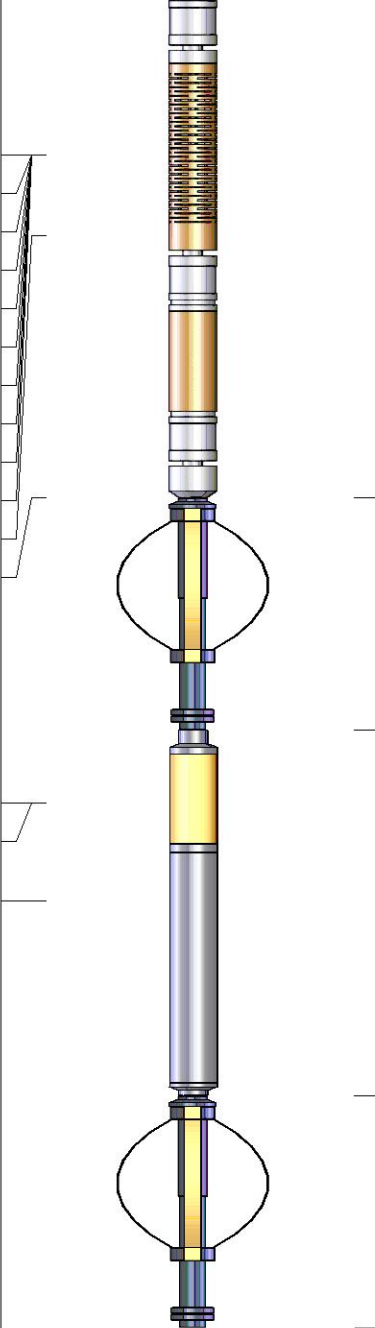
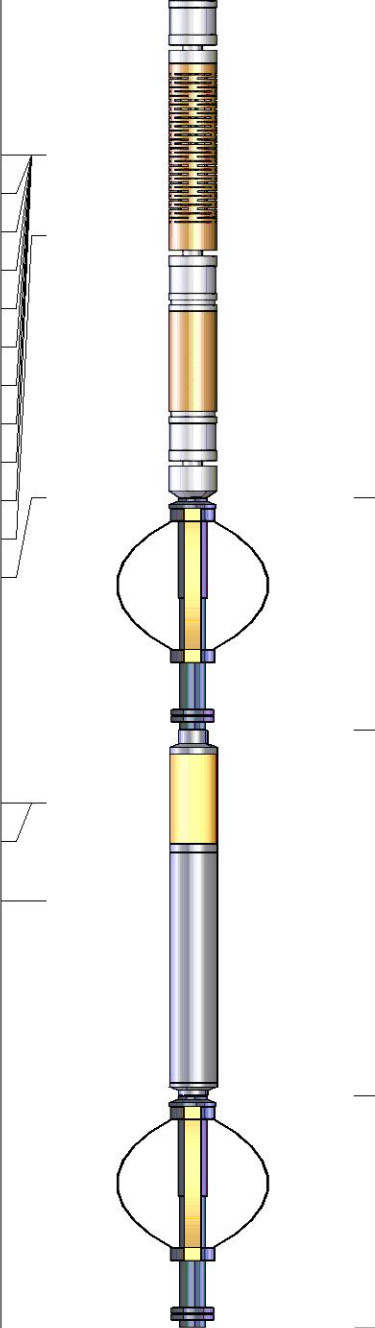
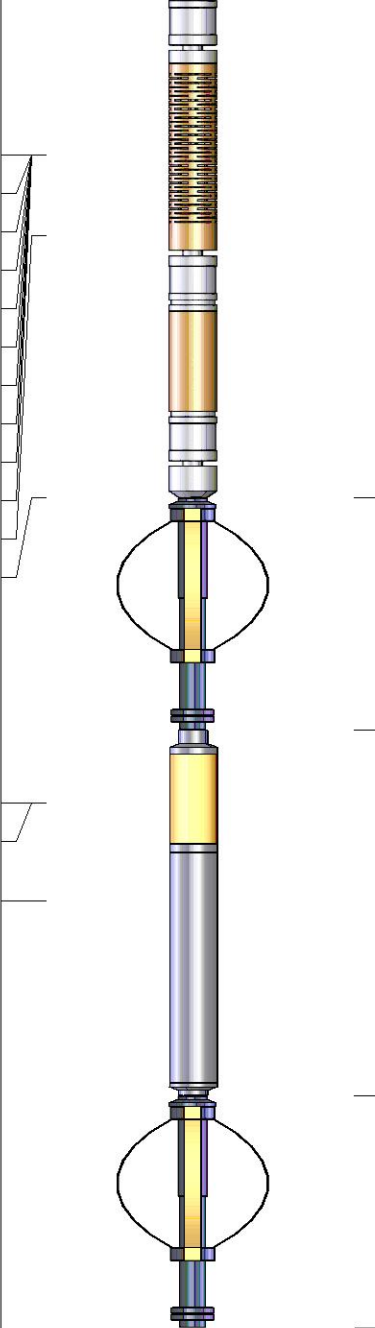
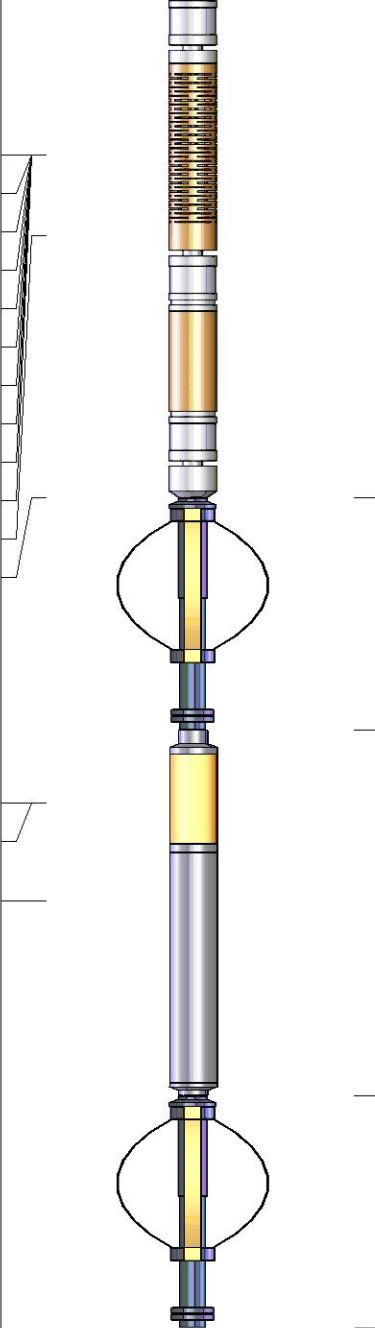
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 Dataset Pathname Repeat.1
 Presentation Format ros_radri
 Dataset Creation Fri Nov 03 05:37:38 2017
 Charted by Depth in Feet scaled 1:240

Gamma Ray			3' Amplitude			5' Variable Density Log			Sector Map			Average Amplitude		
0	(GAPI)	120	0	(mV)	100	200		1200				0		100
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	Length (ft)	O.D. (in)	Weight (lb)
Temp	16.72		Titan_Electric_Cable_Heads-Titan_1-11/161.03 Electric Cable Head with 1" Fishing Neck	1.69	1.69	5.40
			Probe_ELine_BowSpring_Centralizer-P Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	2.75	20.00

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 32C-31-L_RBL_10-31-17.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 32c-31-l_rbl_10-31-17\src energy_ag 32c-31-l_rbl_10-31-17.db	
Dataset Pathname	Main.2	
Dataset Creation	Fri Nov 03 05:27:49 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: 0.000 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.580	0.800	71.921	122.943	0.565
CAL	0.743	0.748				
5'	0.002	0.539	0.800	71.921	132.310	0.564
SUM						
S1	0.001	0.587	0.000	100.000	170.587	-0.122
S2	0.002	0.608	0.000	100.000	164.978	-0.345
S3	0.002	0.620	0.000	100.000	161.890	-0.353
S4	0.002	0.607	0.000	100.000	165.175	-0.256
S5	0.003	0.585	0.000	100.000	171.880	-0.468
S6	0.001	0.571	0.000	100.000	175.448	-0.215
S7	0.003	0.564	0.000	100.000	178.016	-0.473
S8	0.001	0.575	0.000	100.000	174.147	-0.161

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.743	0.748	1.000	0.000

Air Zero Calibration, performed Tue Oct 31 06:20:21 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.008		0.000		0.000	
5'	0.010		0.000		0.001	
SUM						
S1	0.006		0.000		-0.001	
S2	0.009		0.000		0.000	
S3	0.008		0.000		0.000	
S4	0.008		0.000		-0.000	
S5	0.011		0.000		0.001	
S6	0.011		0.000		-0.000	
S7	0.009		0.000		0.001	
S8	0.008		0.000		-0.001	



Company SRC Energy Inc
 Well Ag 32C-31-L
 Field Wattenberg
 County Weld
 State Colorado