



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company Synergy Resources Corporation		Company Synergy Resources Corporation	
Well Hood 25C-22-M	Well Hood 25C-22-M		
Field Wattenberg	Field Wattenberg		
County Weld	County Weld		
State Colorado	State Colorado		
Location: API #: 05-123-44372		Other Services Junk Basket Gauge Ring RBP	
Permanent Datum SEC 20	TWP 6N	RGE 66W	Elevation
Log Measured From	Ground Level	Elevation	4735'
Drilling Measured From	Kelly Bushing	Elevation K.B. 4760' D.F. 4759' G.L. 4735'	
Date 28-JUN-2017	Run Number Three		
Depth Driller	15590 FT		
Depth Logger	7015 FT		
Bottom Logged Interval	7010 FT		
Top Log Interval	Surface		
Open Hole Size	---		
Type Fluid	Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	224°F		
Estimated Cement Top	See Log		
Time Well Ready	ROA		
Time Logger on Bottom	0730		
Equipment Number	HD-0324		
Location	Fort Lupton, CO		
Recorded By	Jack Amidei		
Witnessed By	Shane Hart		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
Casing Record	Size (in)	Wgt (lb/ft)	Grade
Surface Casing	9 5/8	36	---
Intermediate #1	5 1/2	20	HCP-110
Intermediate #2			Surface
Liner			Bottom
			1750 FT
			15574 FT

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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
Log measured from Ground Level 0 FT
Depth referenced to Casing Tally recorded Marker Joint at 6814 FT
Adjusted Log -14 FT to correlate with Marker Joint
Log ran with 2500 PSI Surface Induced Pressure
Log ran from 7015 FT to Surface
Logging tools came out clean and free of debris upon completion of operations

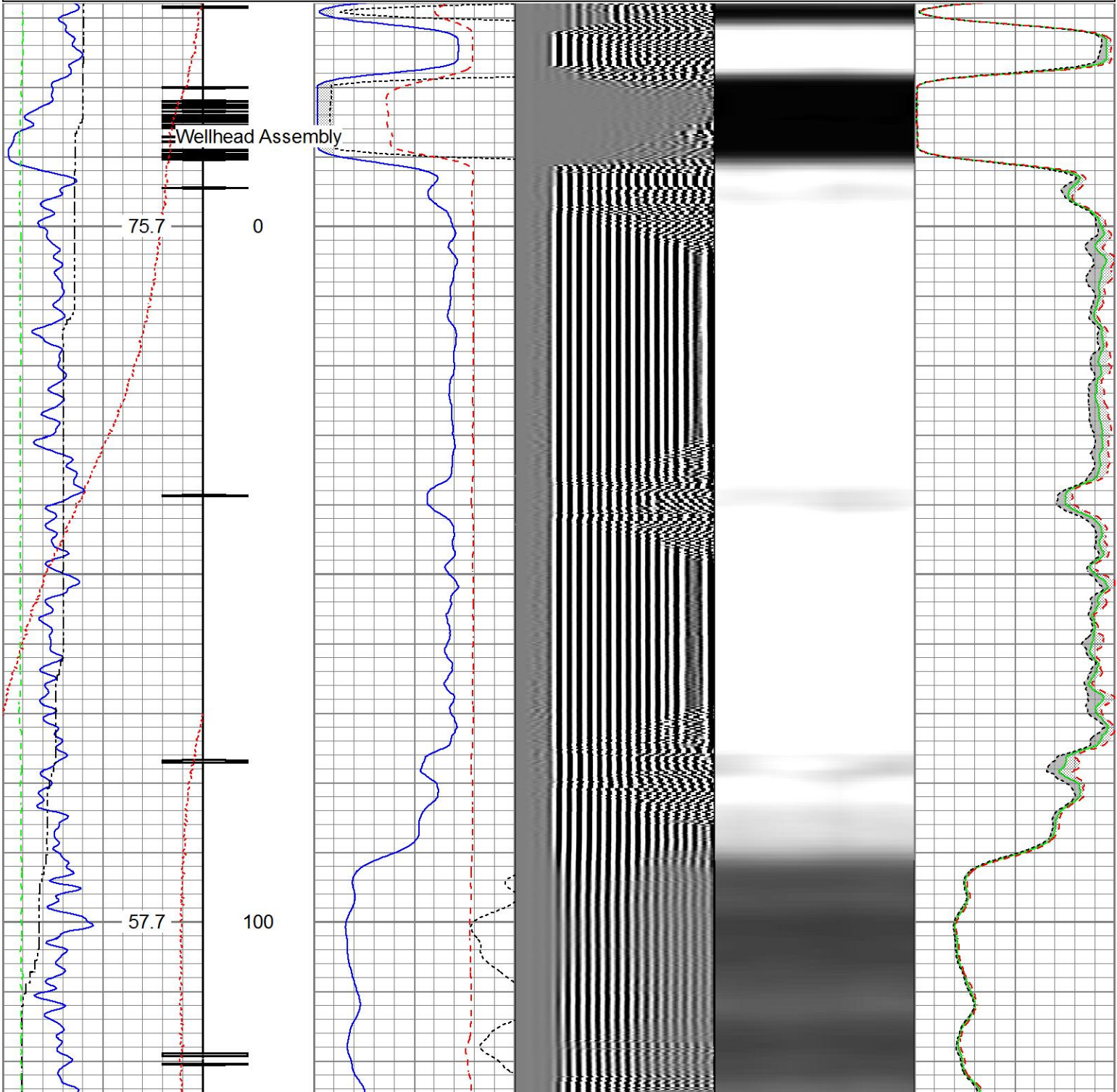
Thank you for choosing Reliance Oilfield Services, LLC!!

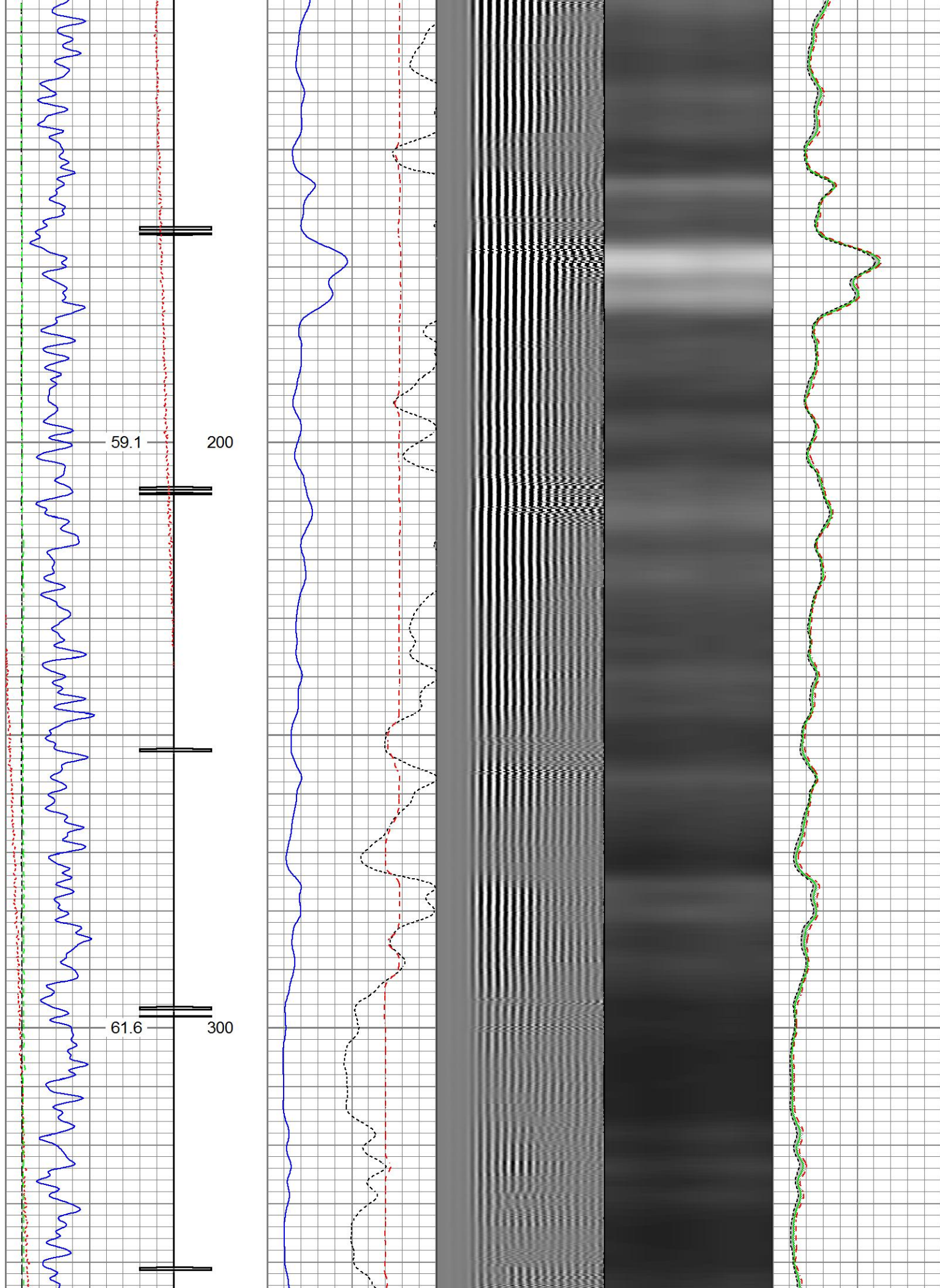


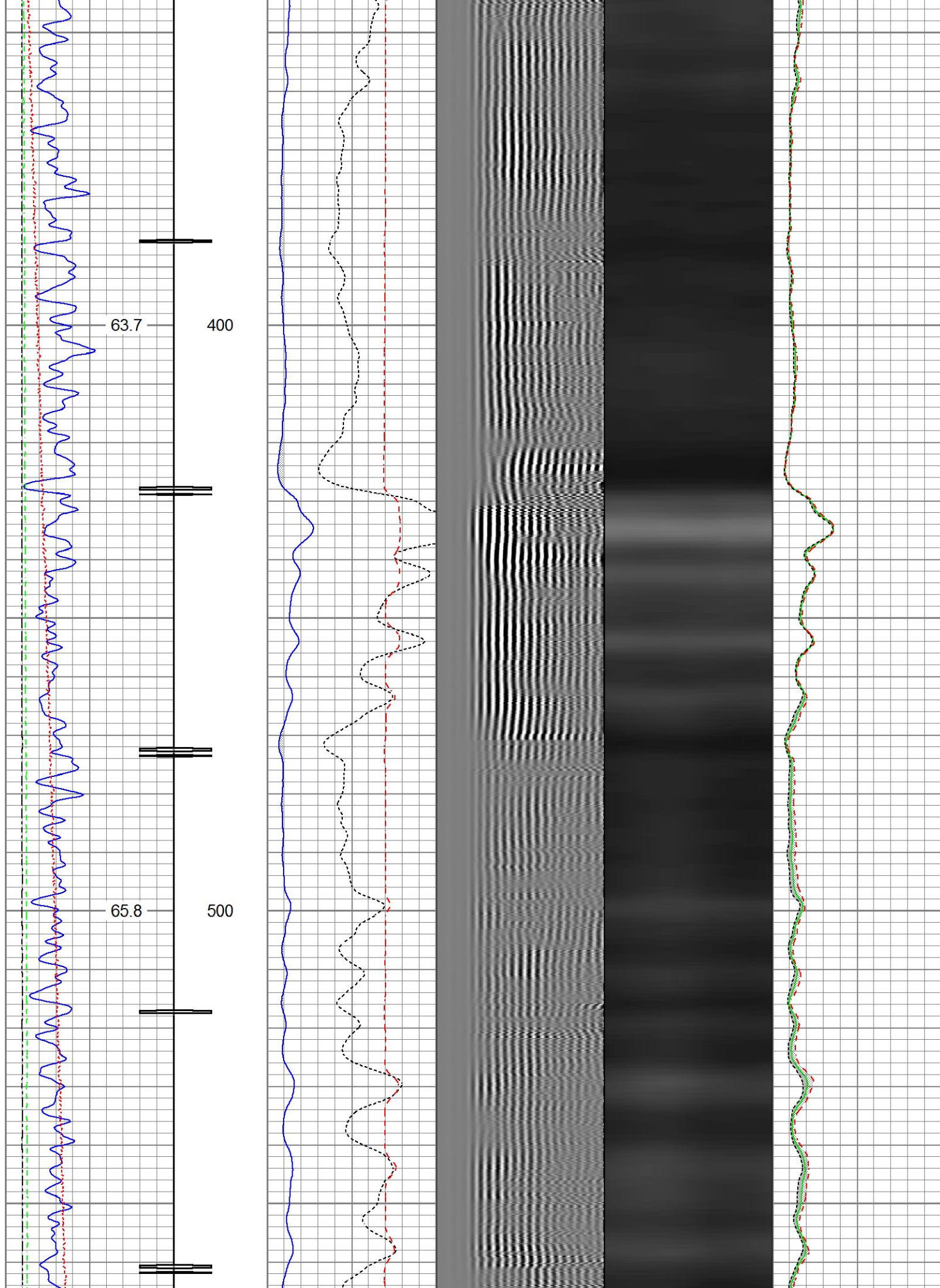
Main Pass

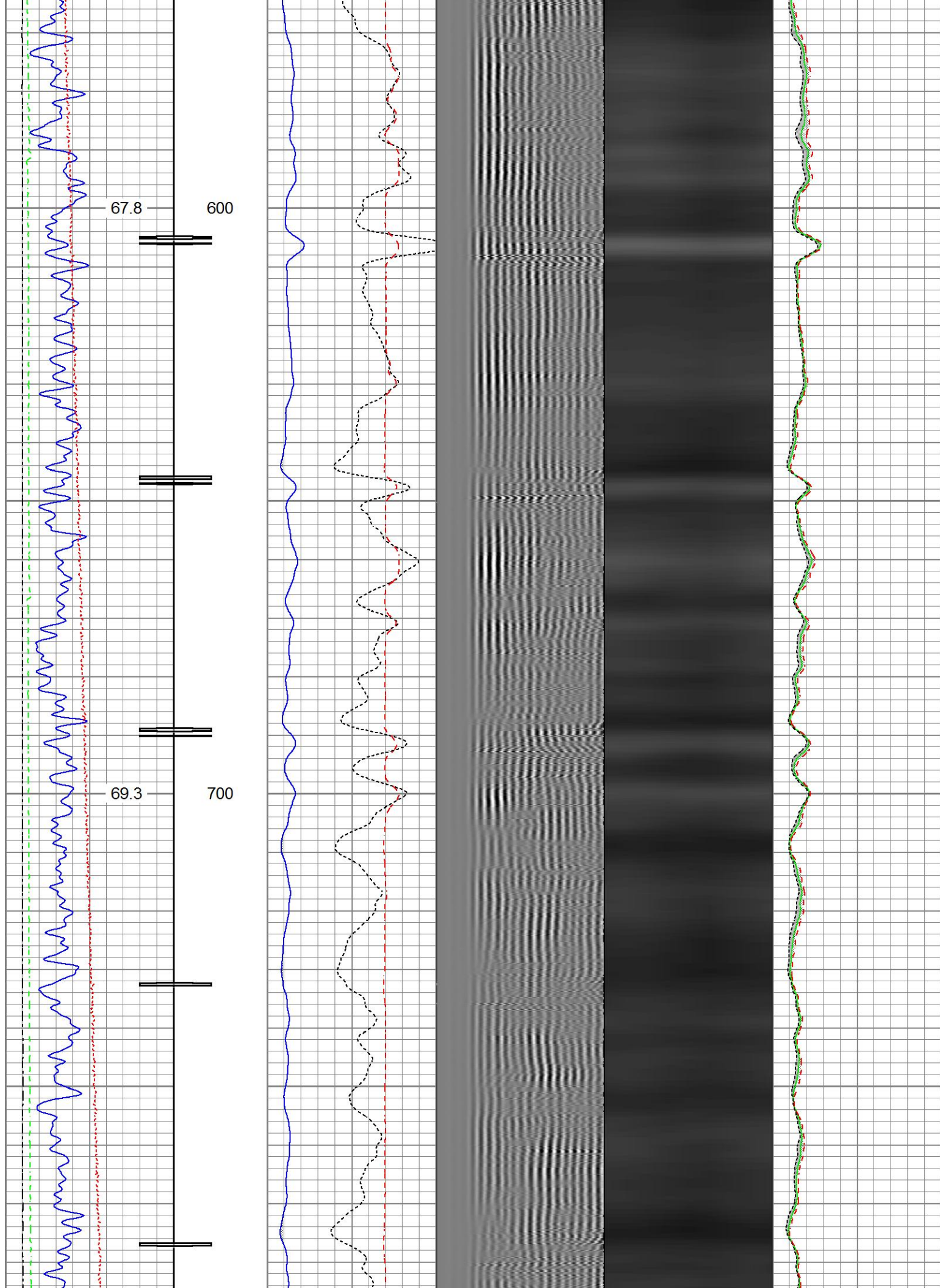
Recorded With 2500 PSI Surface Induced Pressure

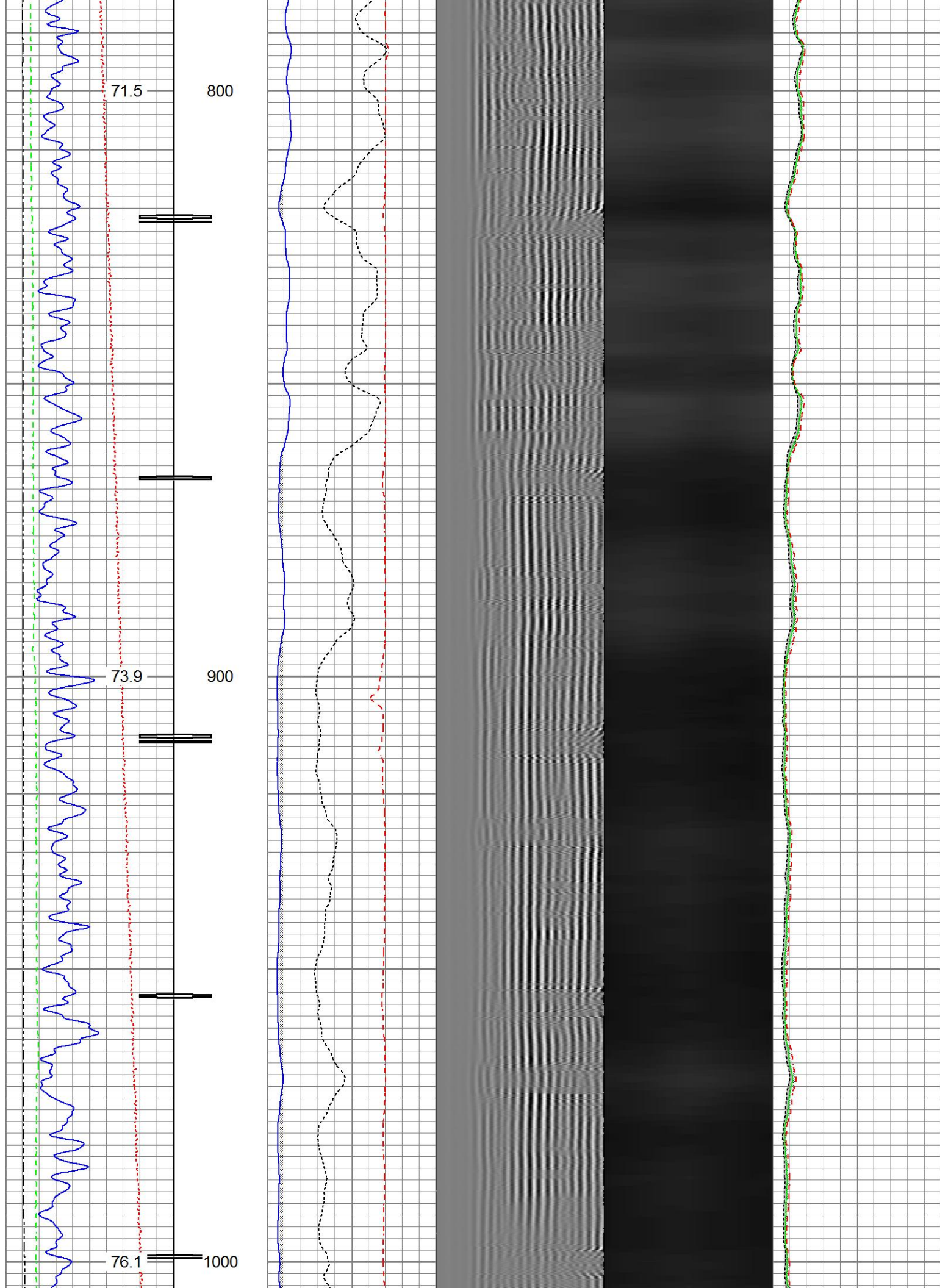
Gamma Ray			3' Amplitude			5' Variable Density Log		Sector Map		Average Amplitude	
0	(GAPI)	120	0	(mV)	100	200	1200			0	100
Casing Collar Locator			3' Amplitude x 5							Minimum Amplitude	
Temperature			0 (mV) 20							0 100	
0 (degF) 20			3' Travel Time							Maximum Amplitude	
Line Speed			650 (usec)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

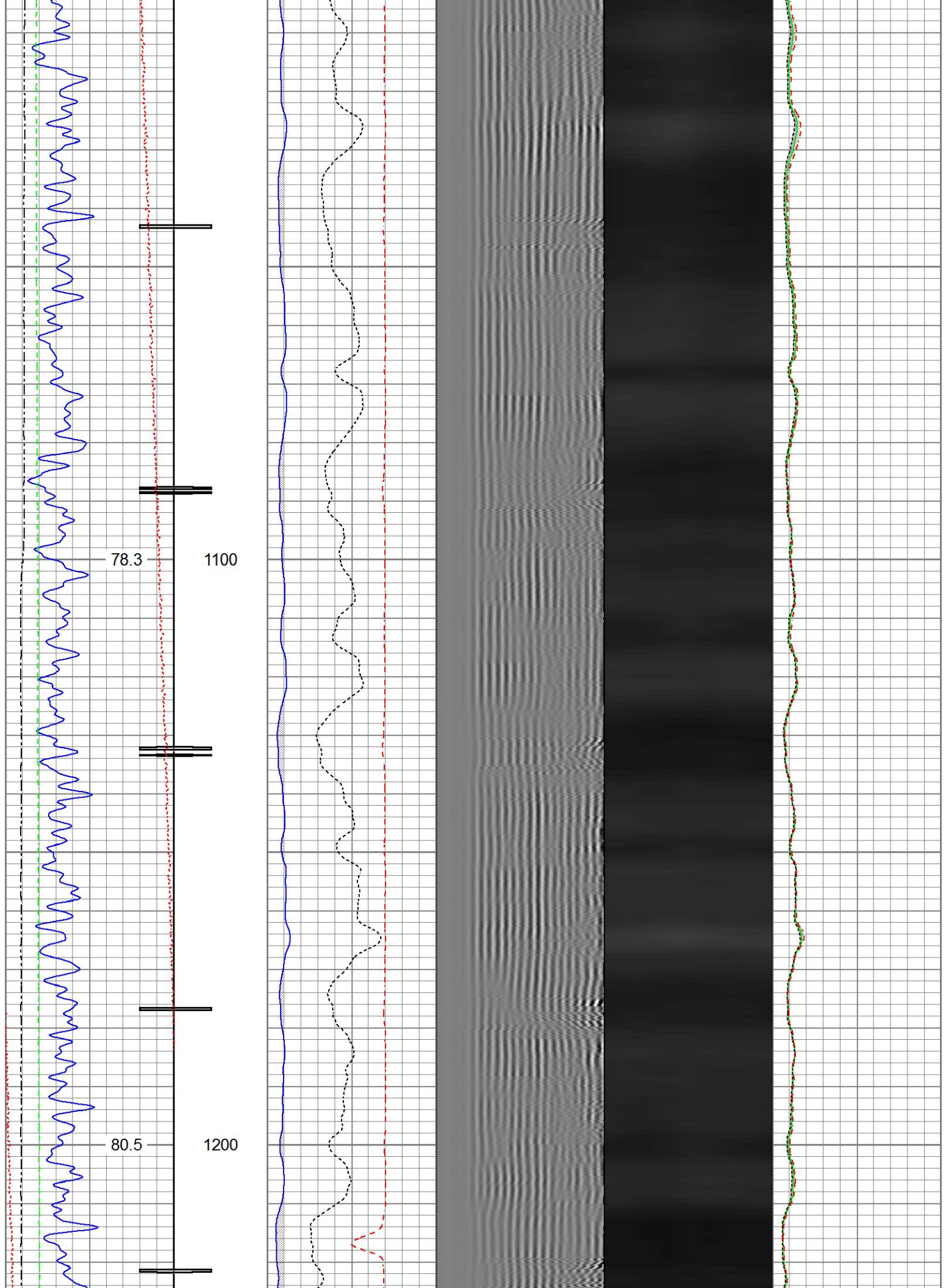


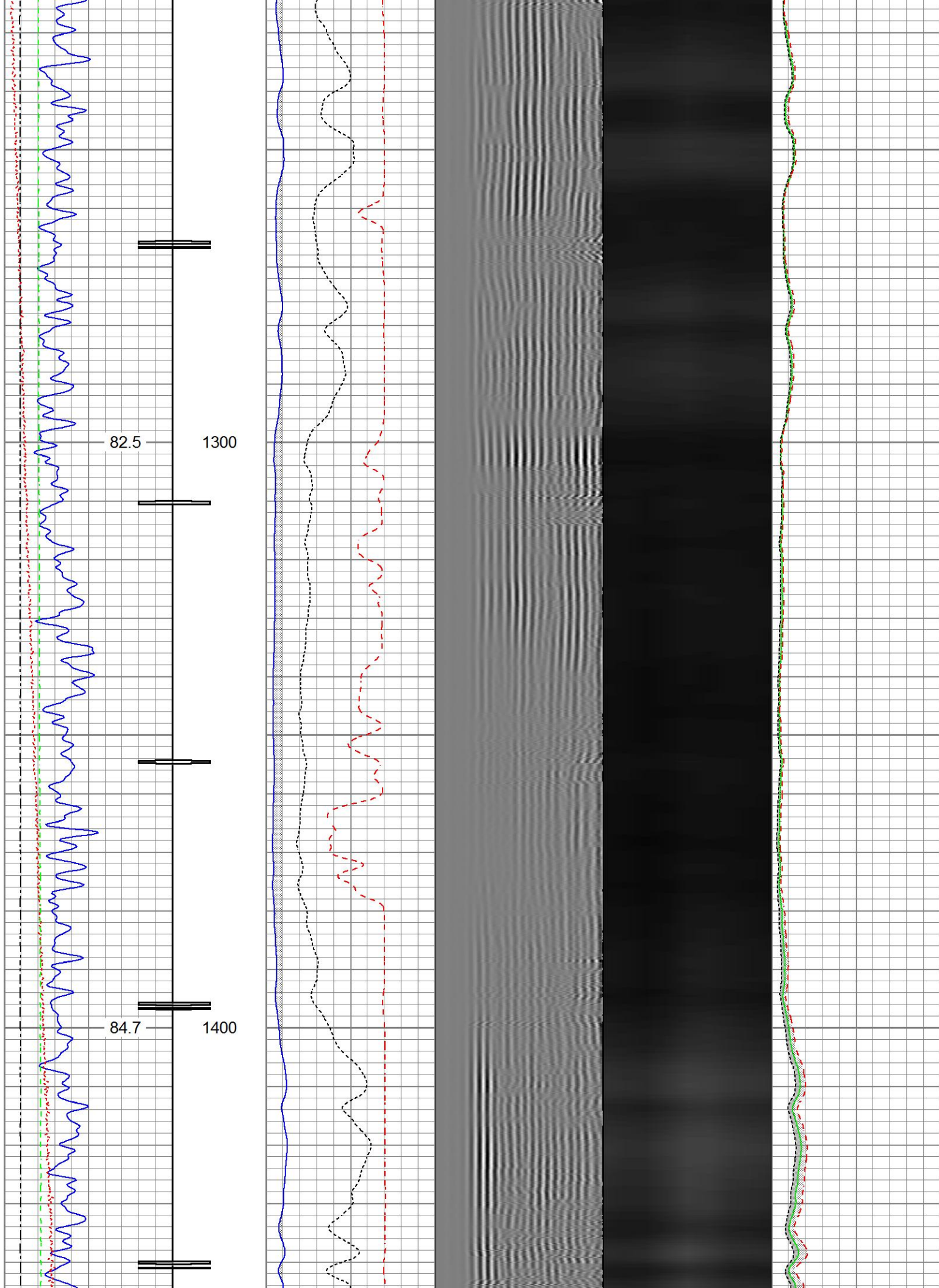


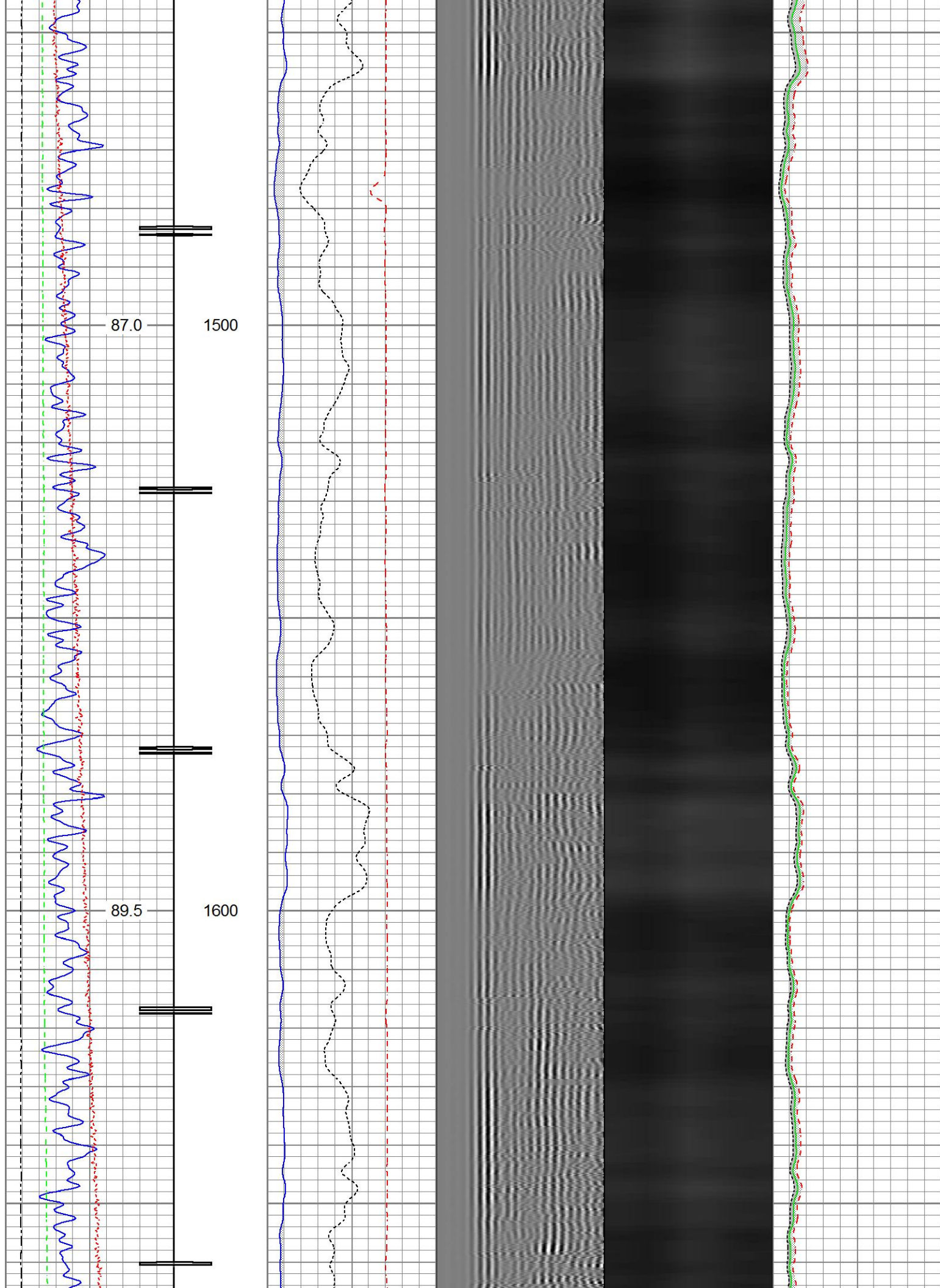


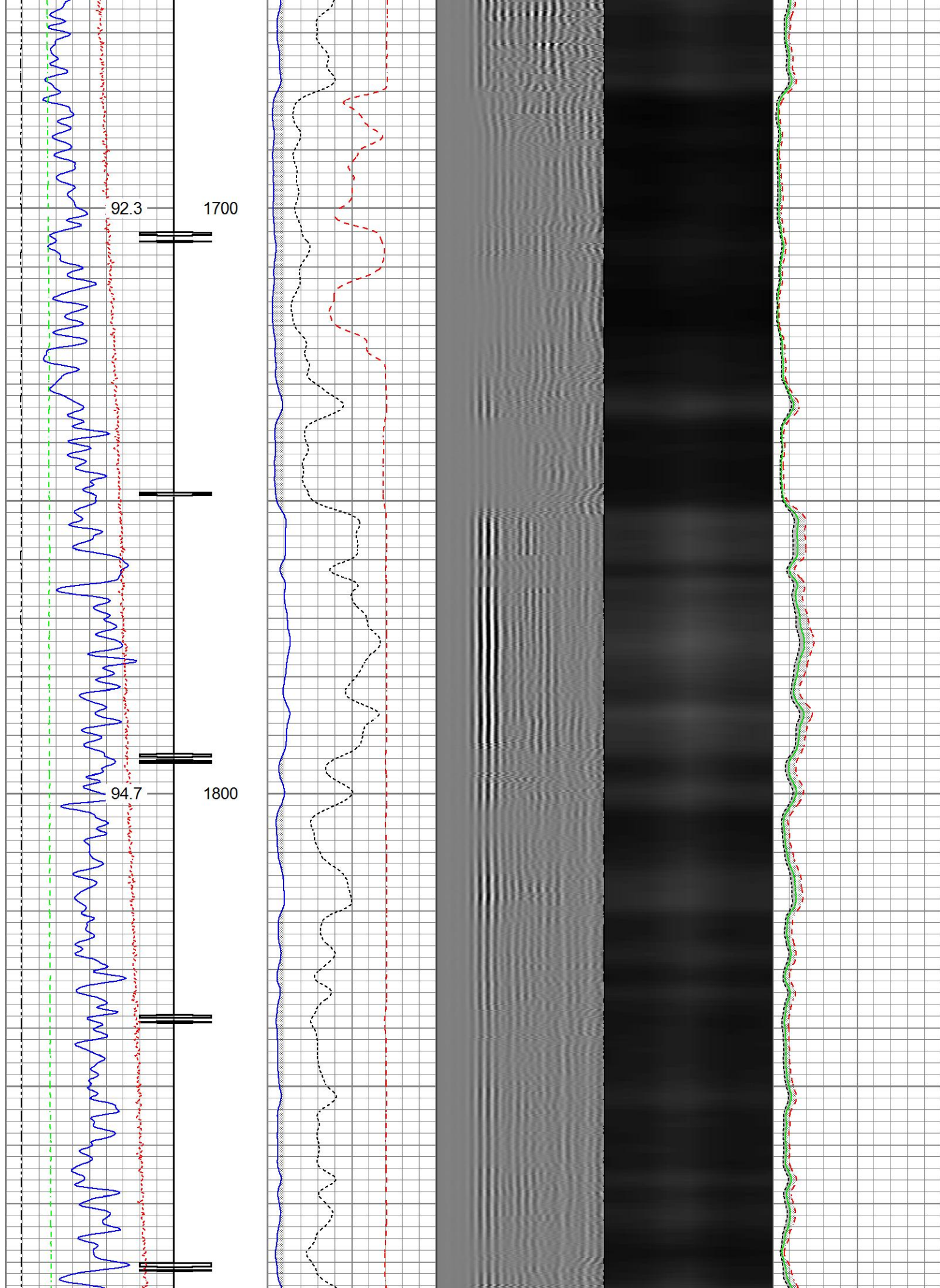


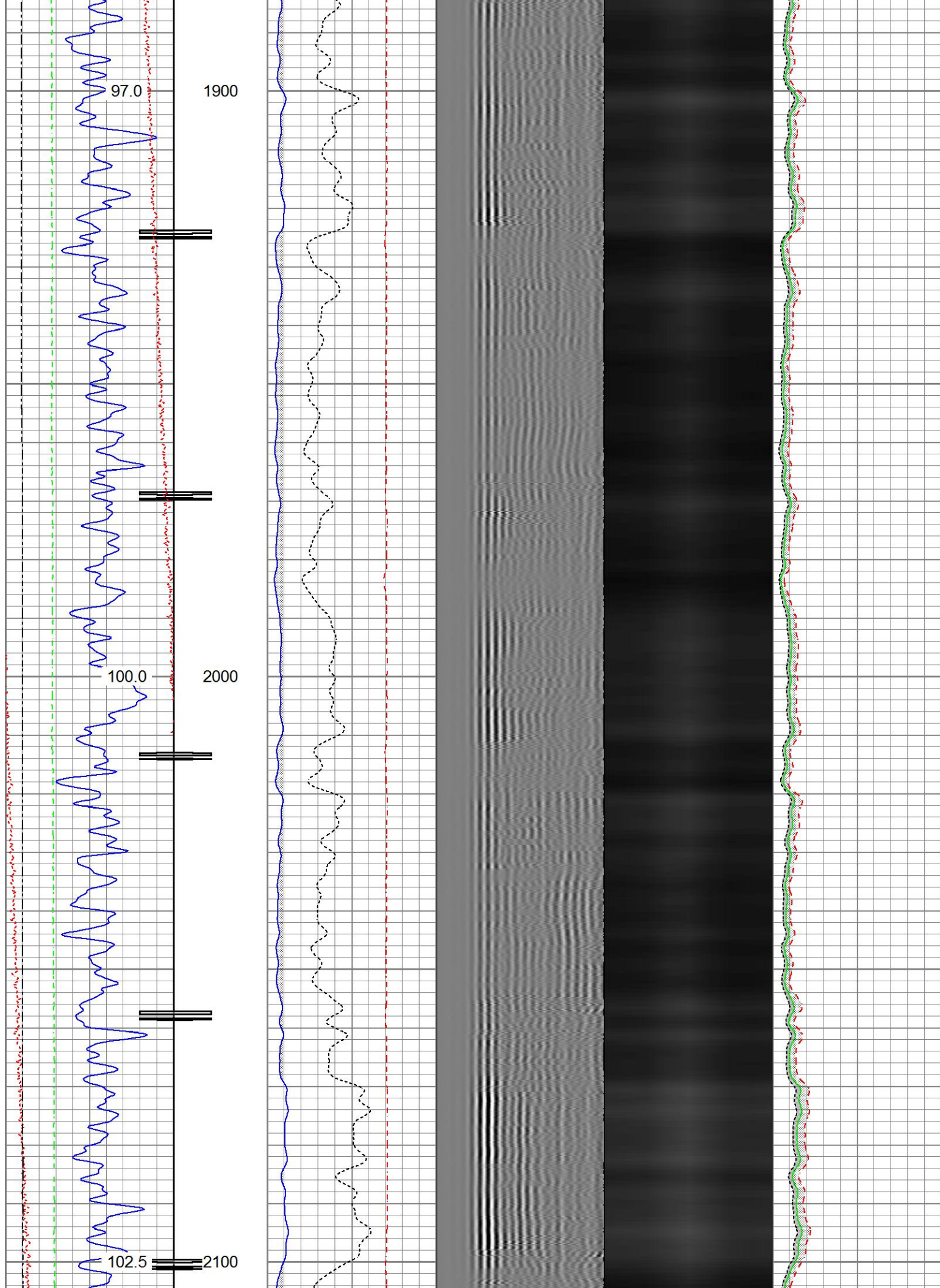


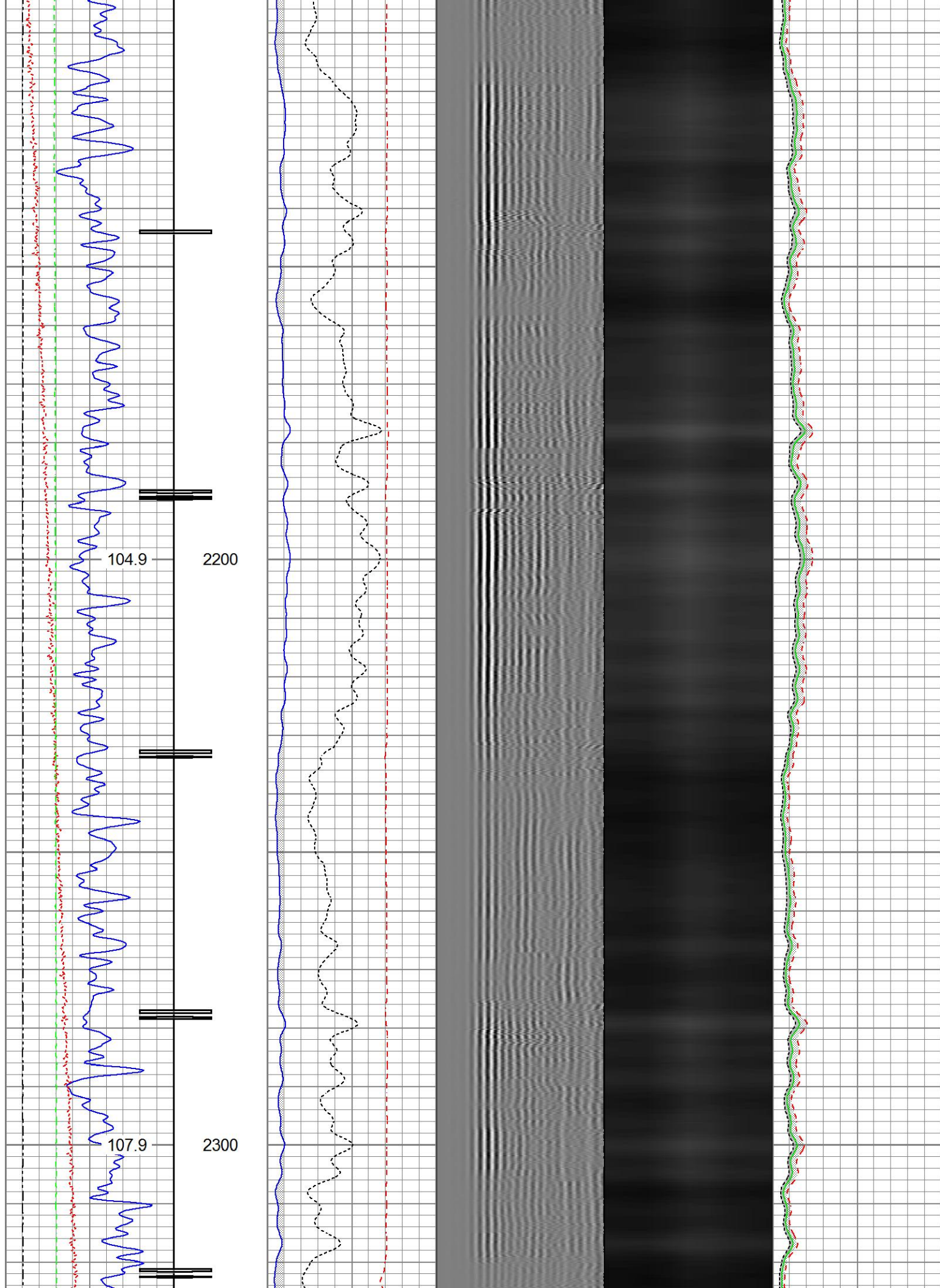


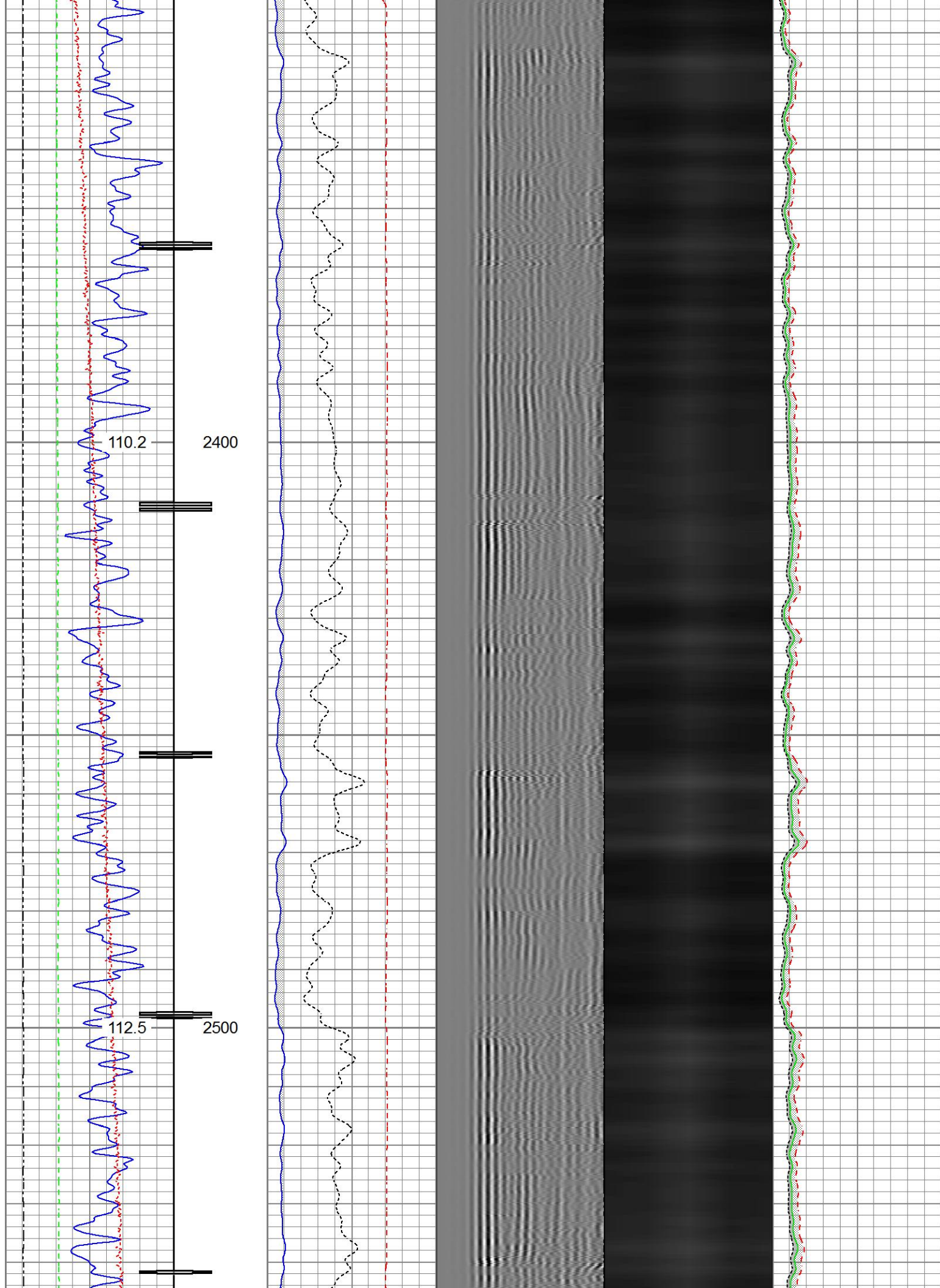


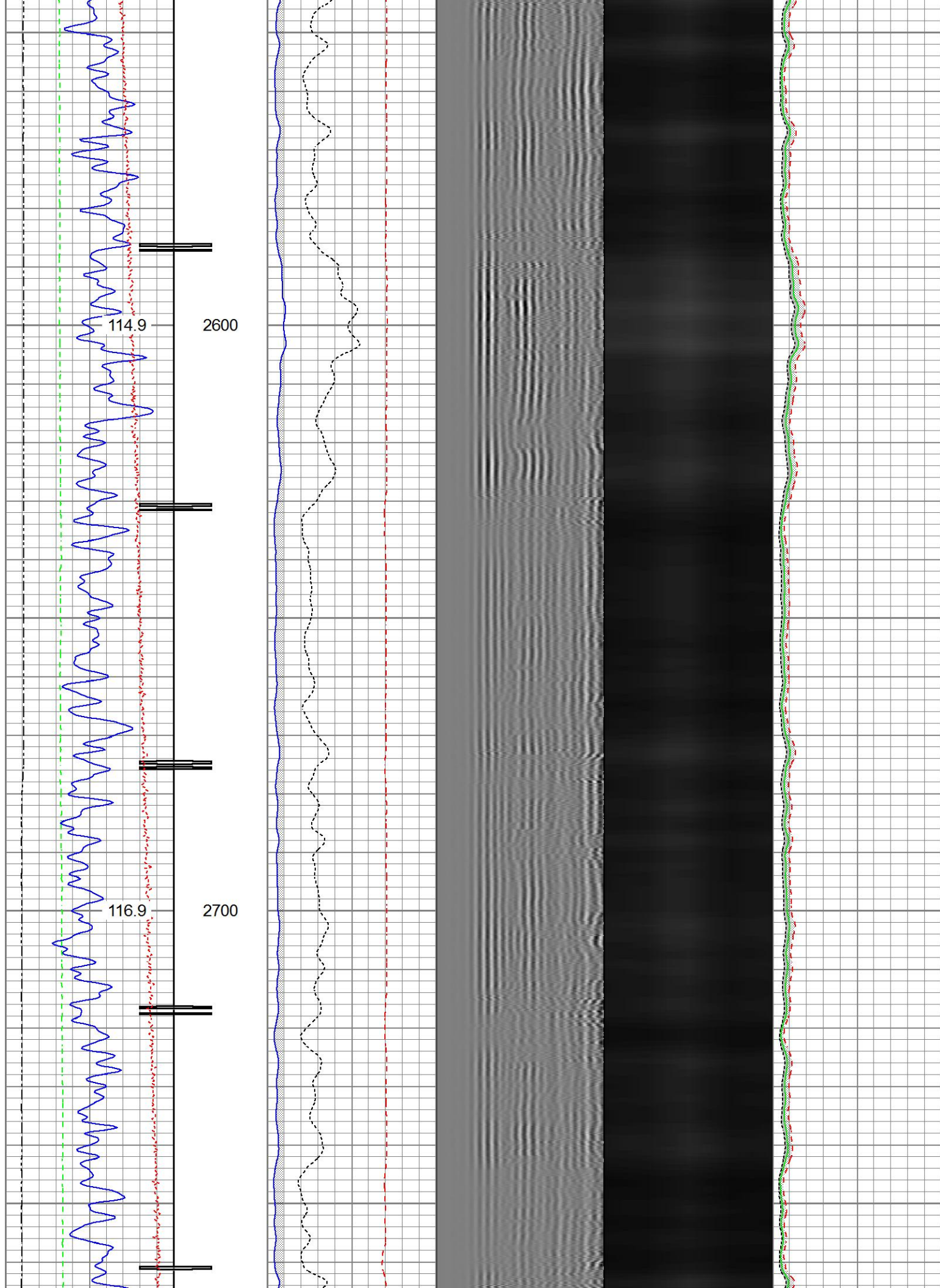


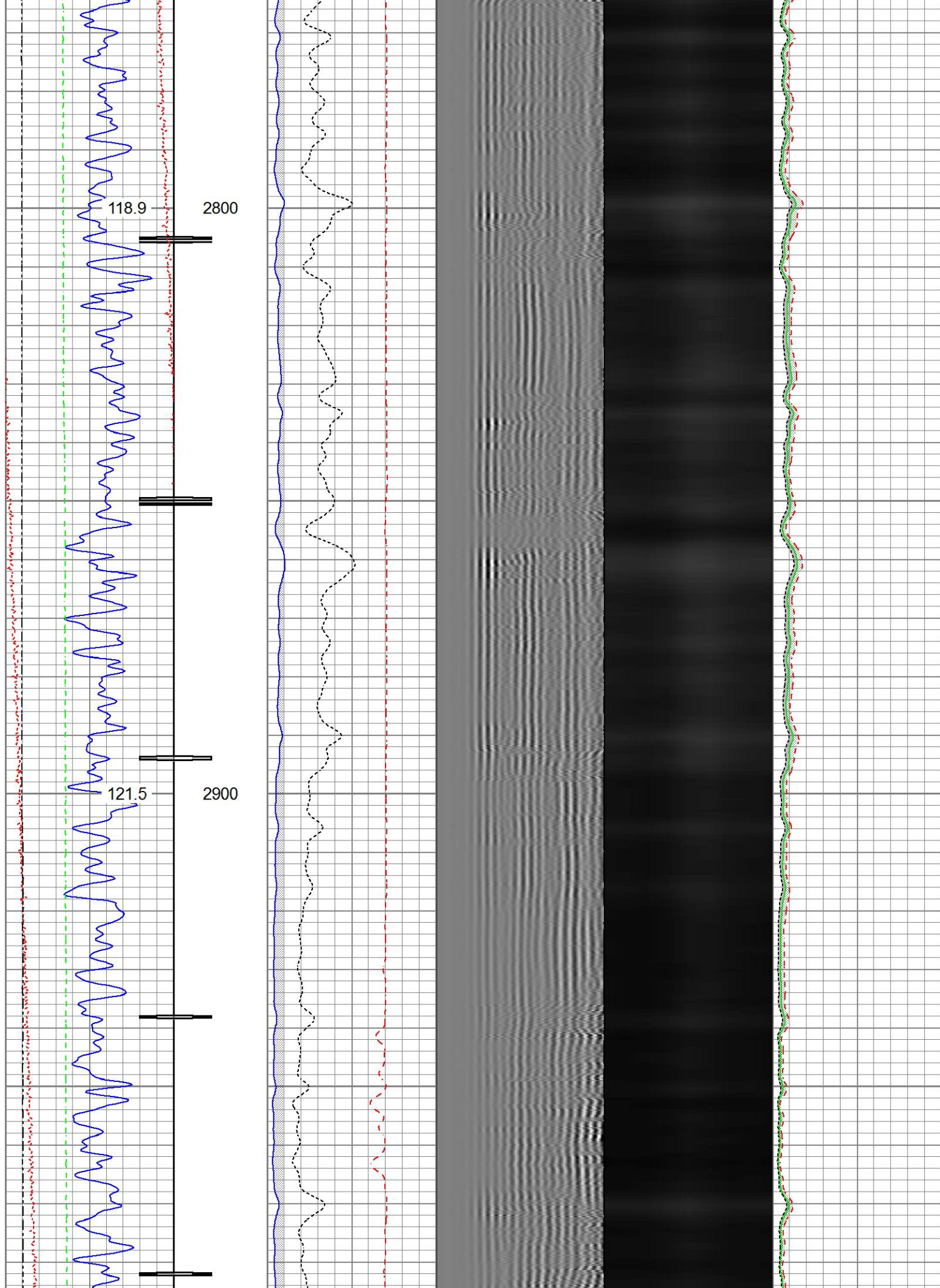


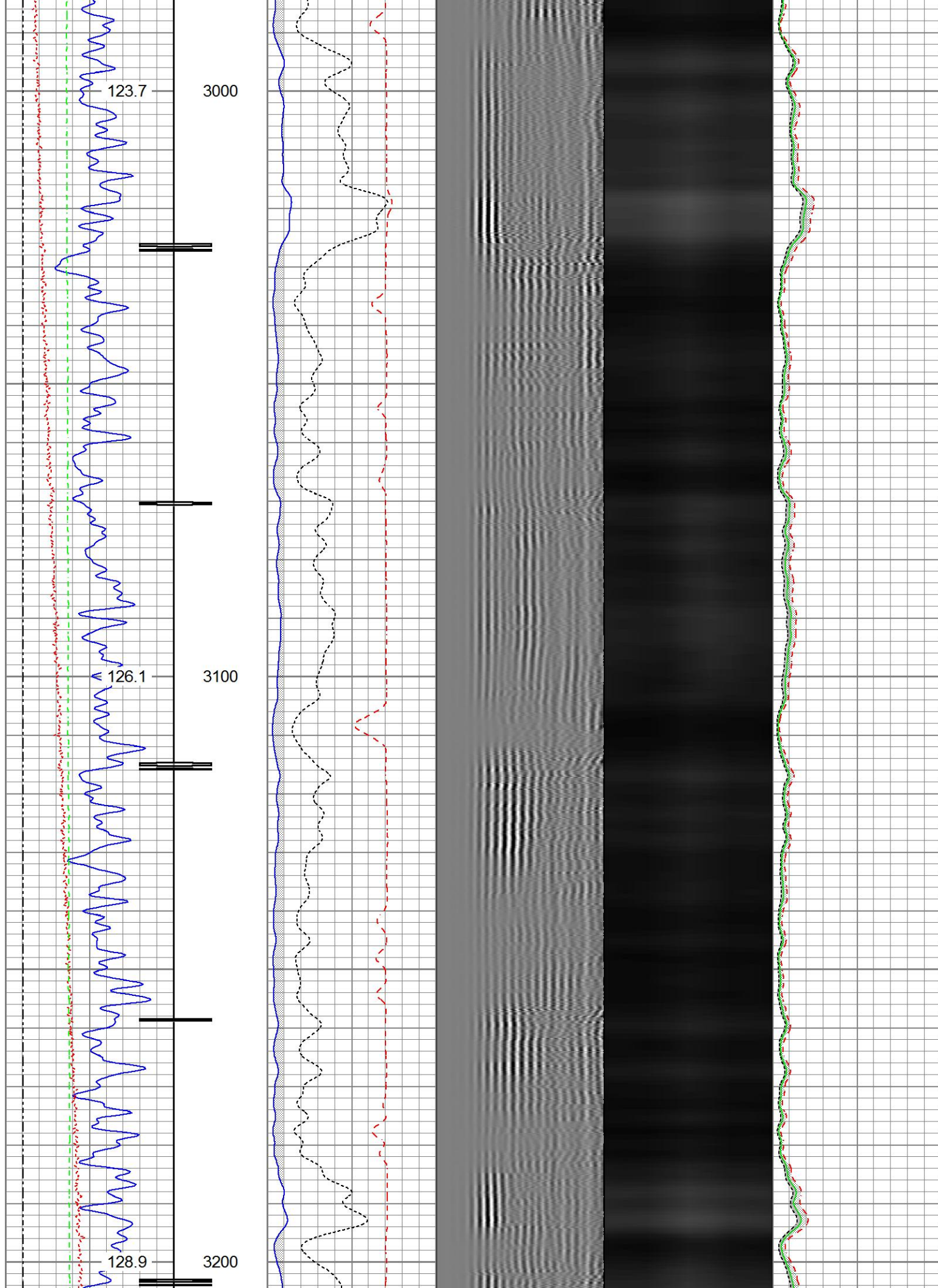


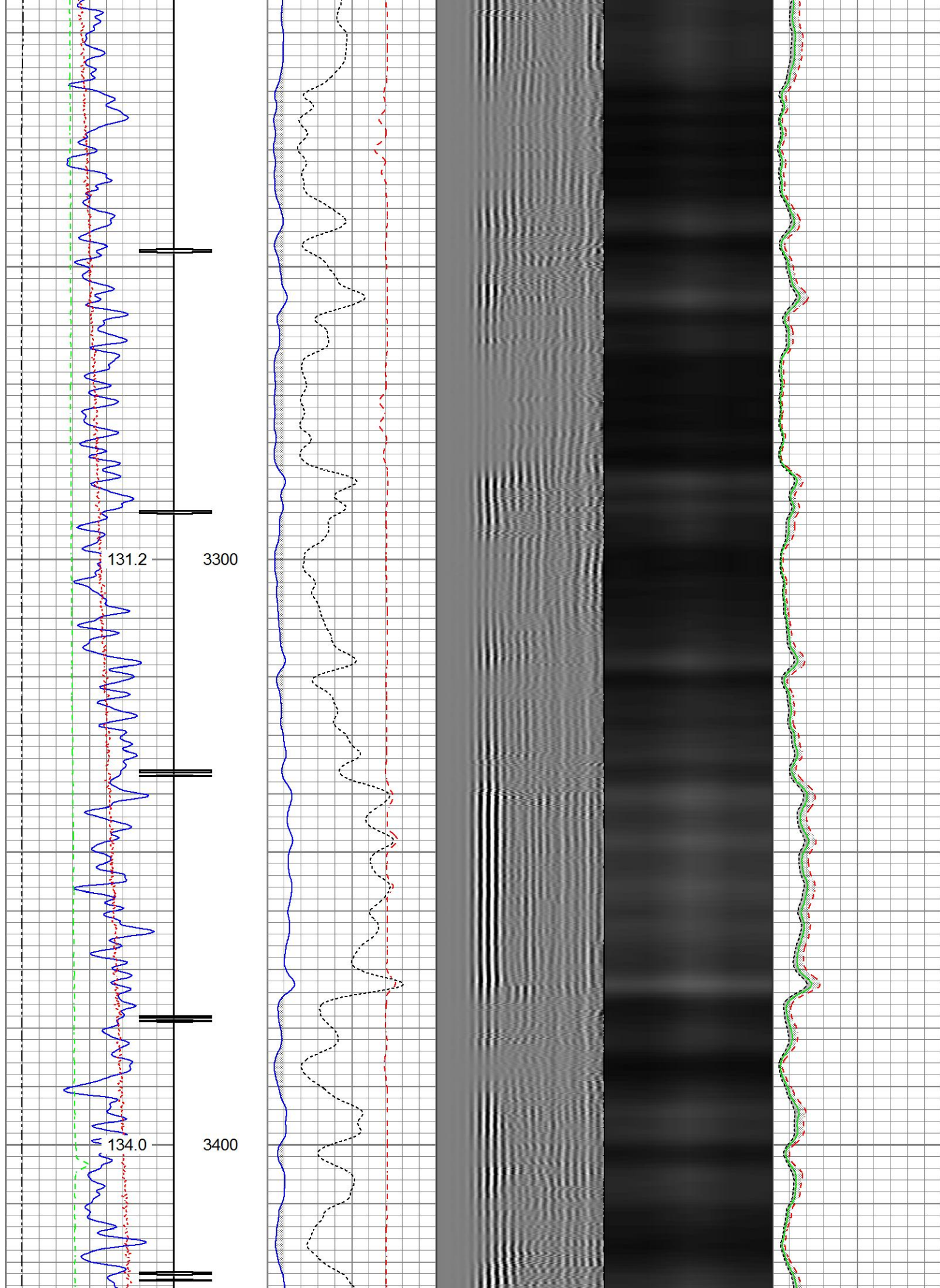


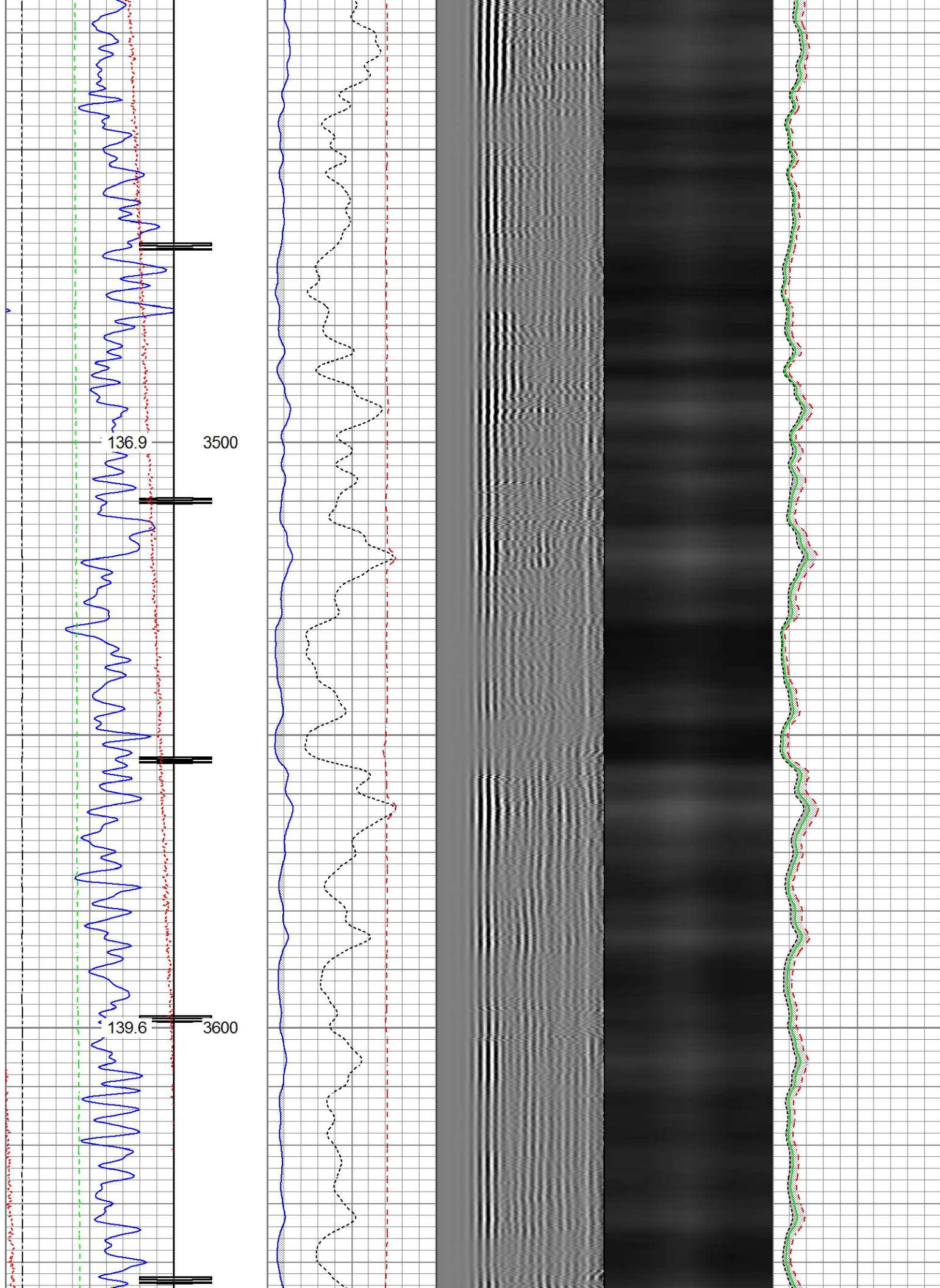


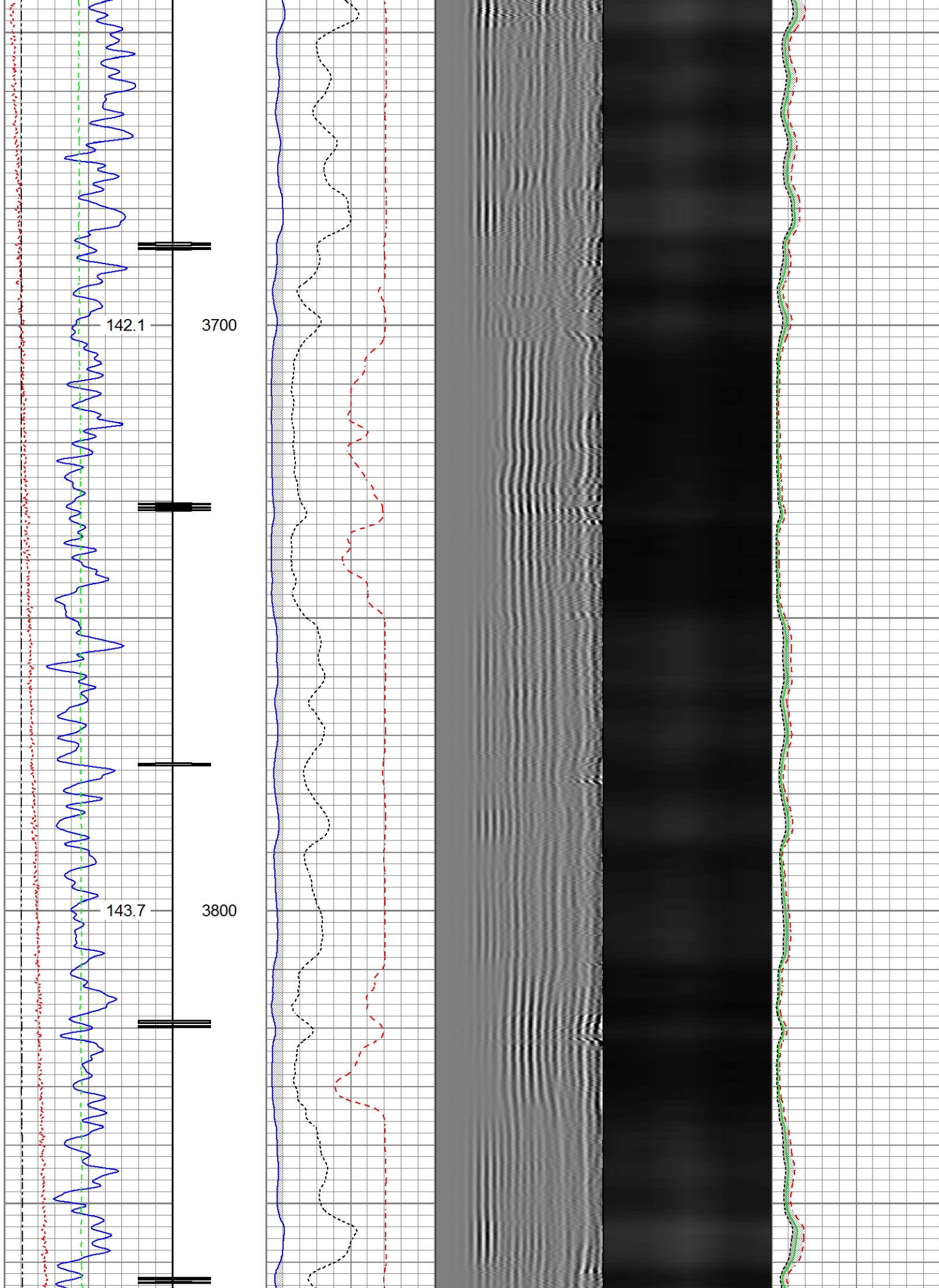


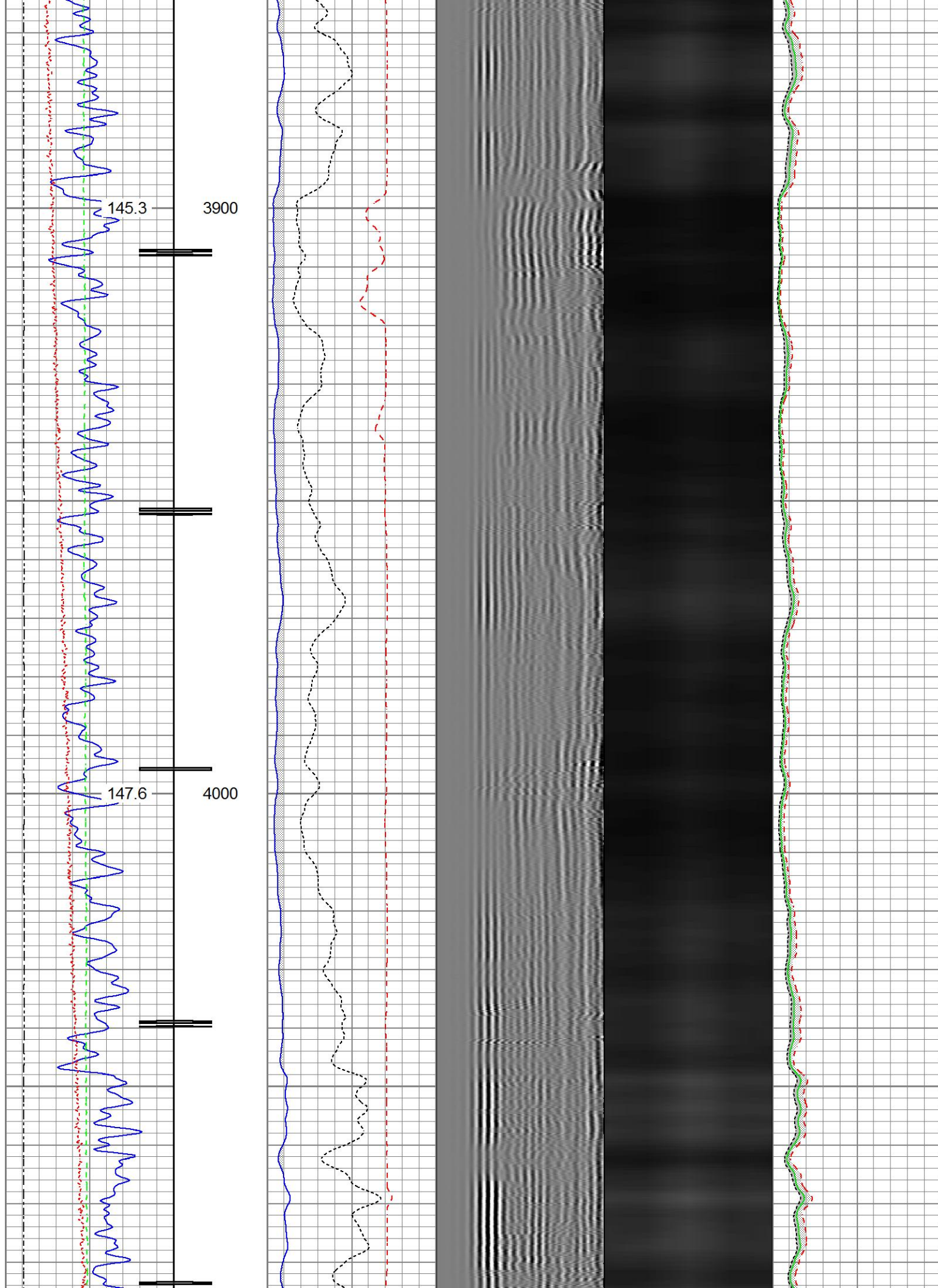


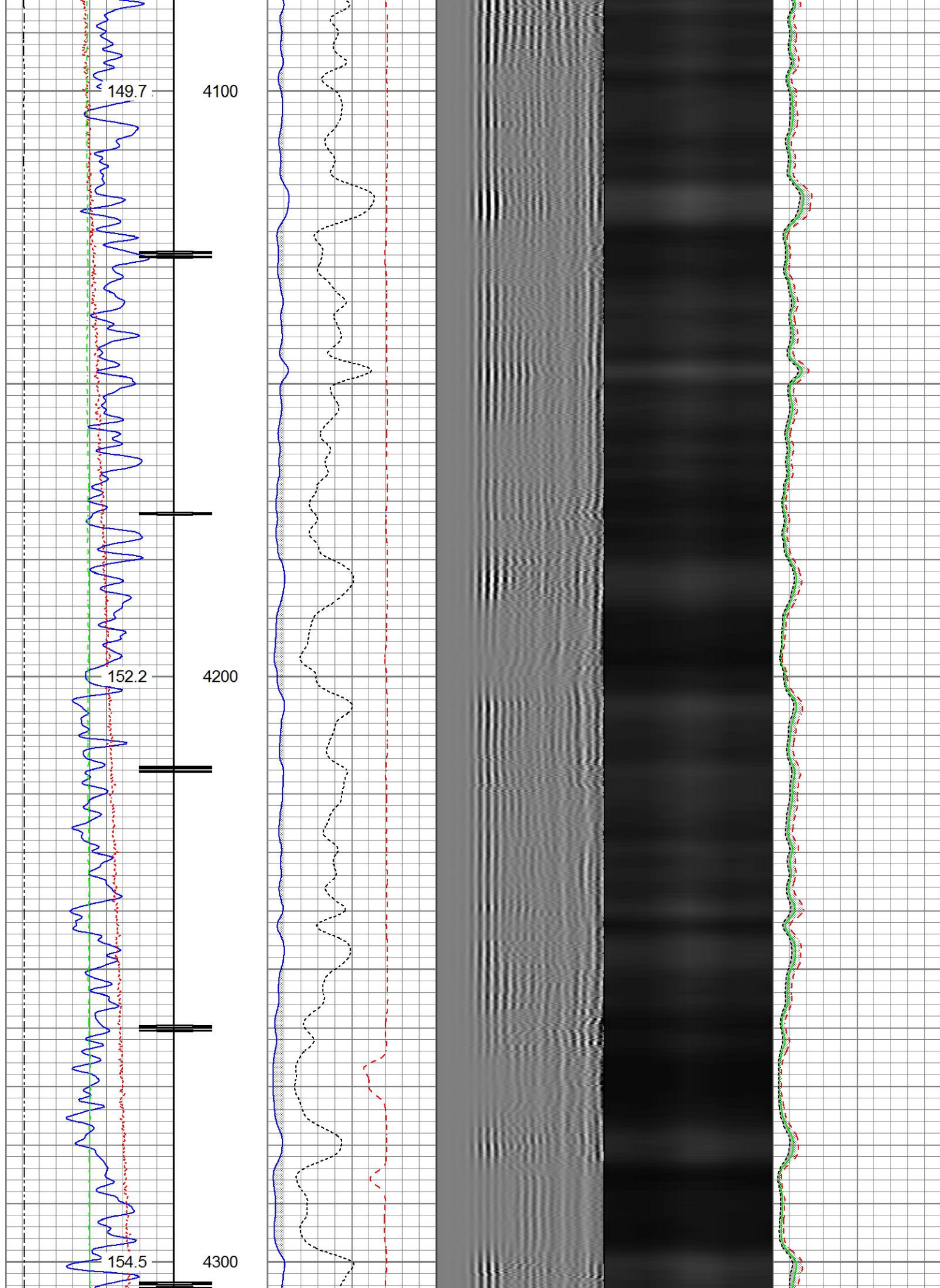


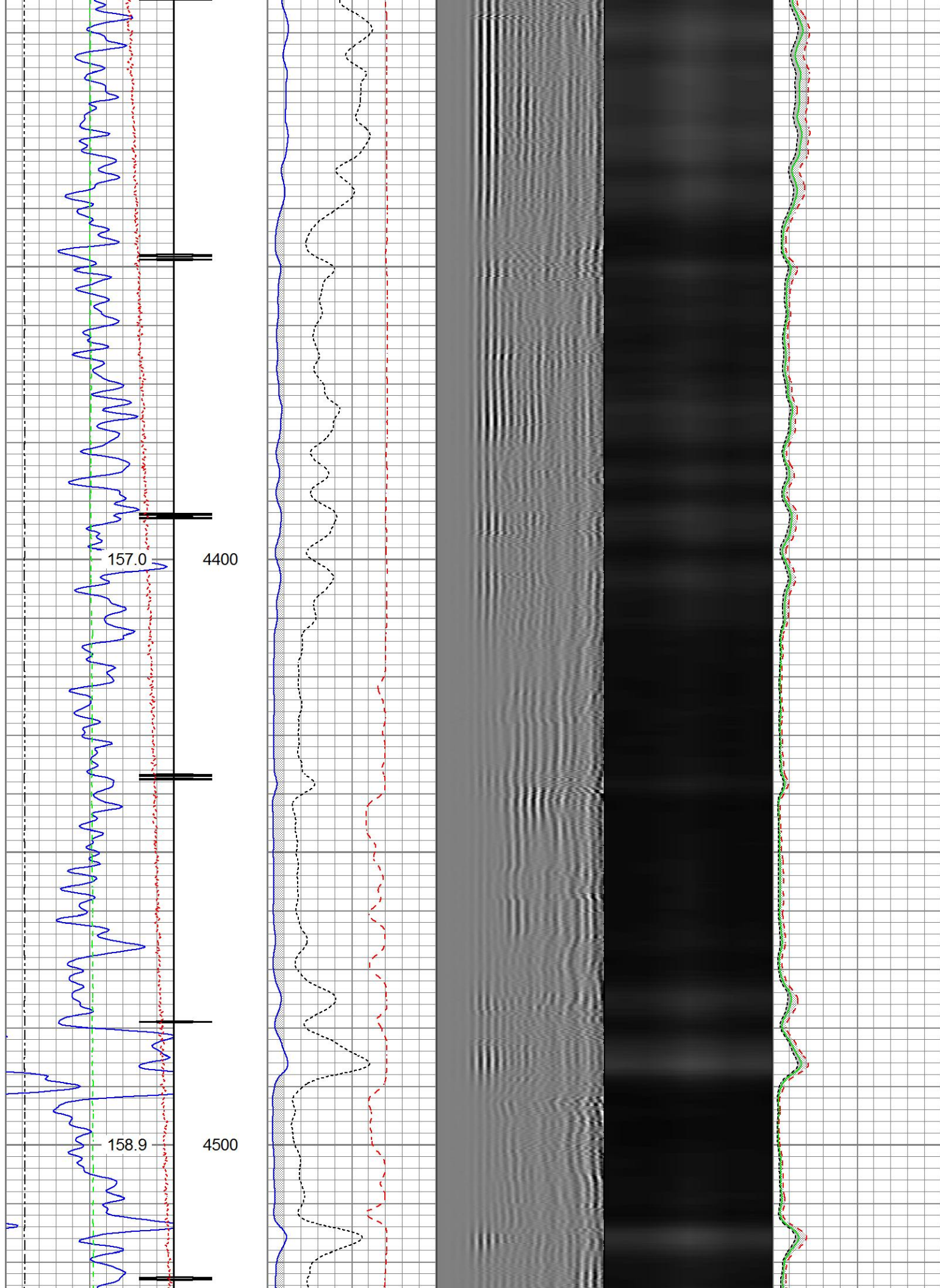


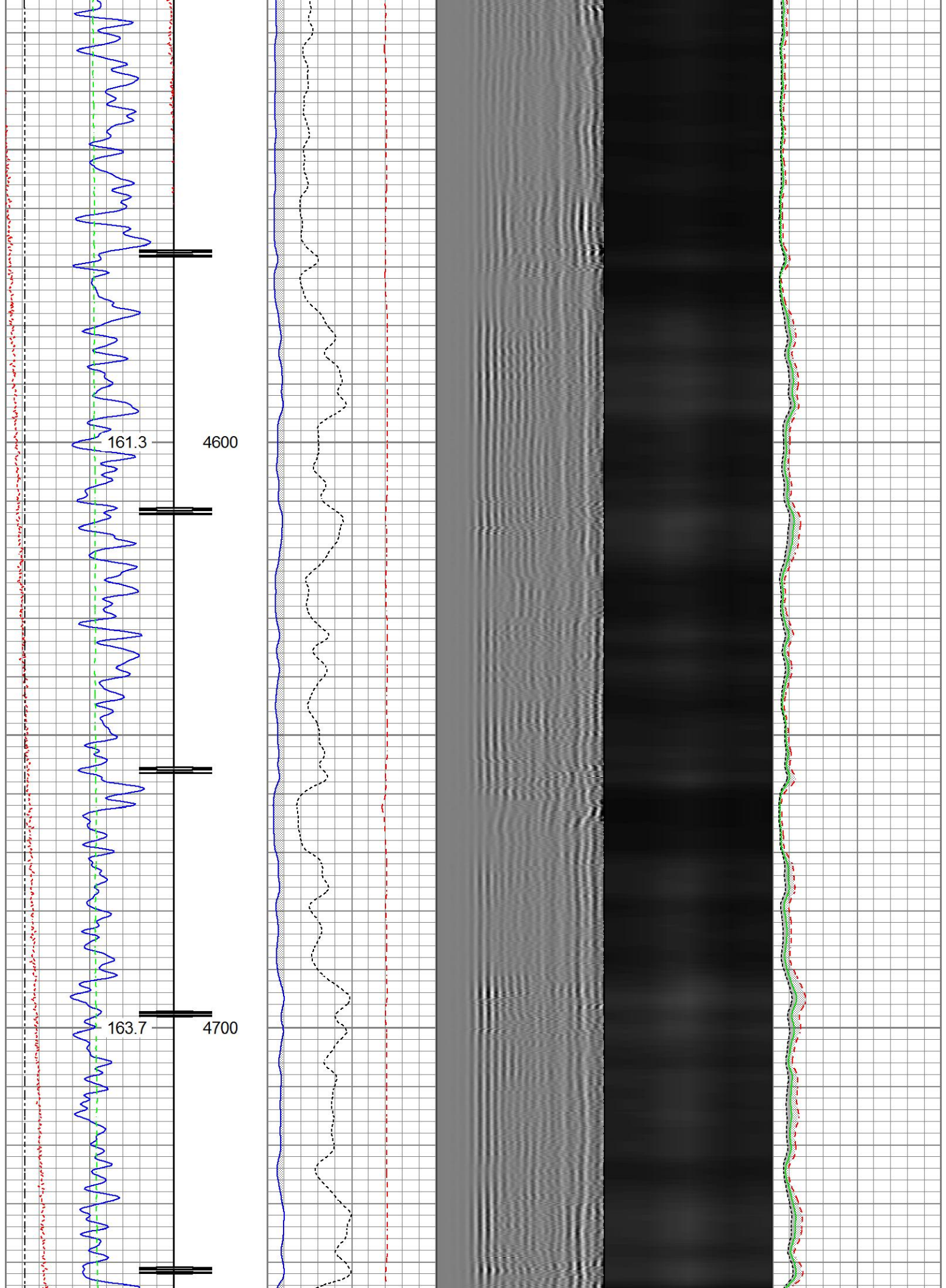


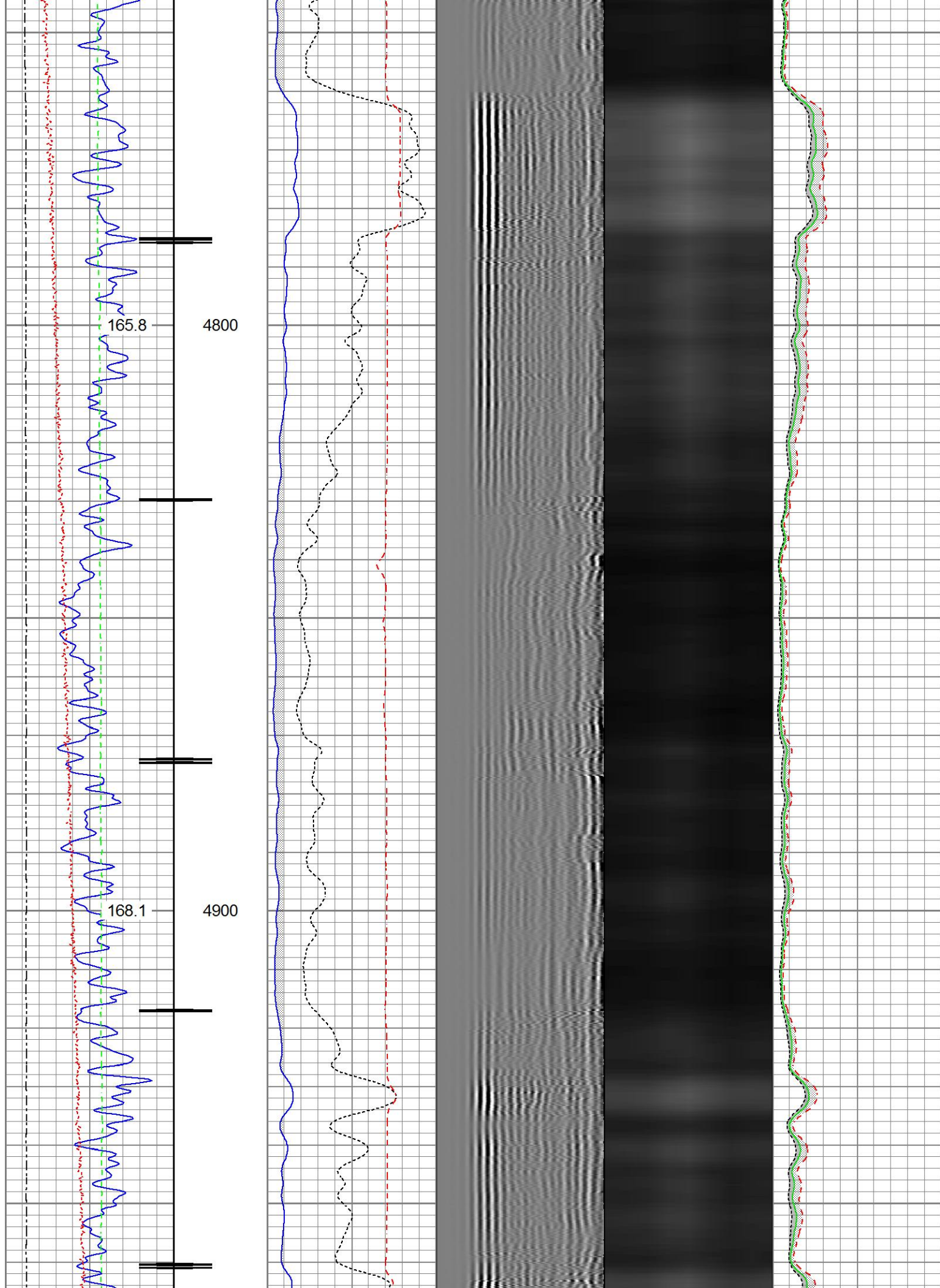


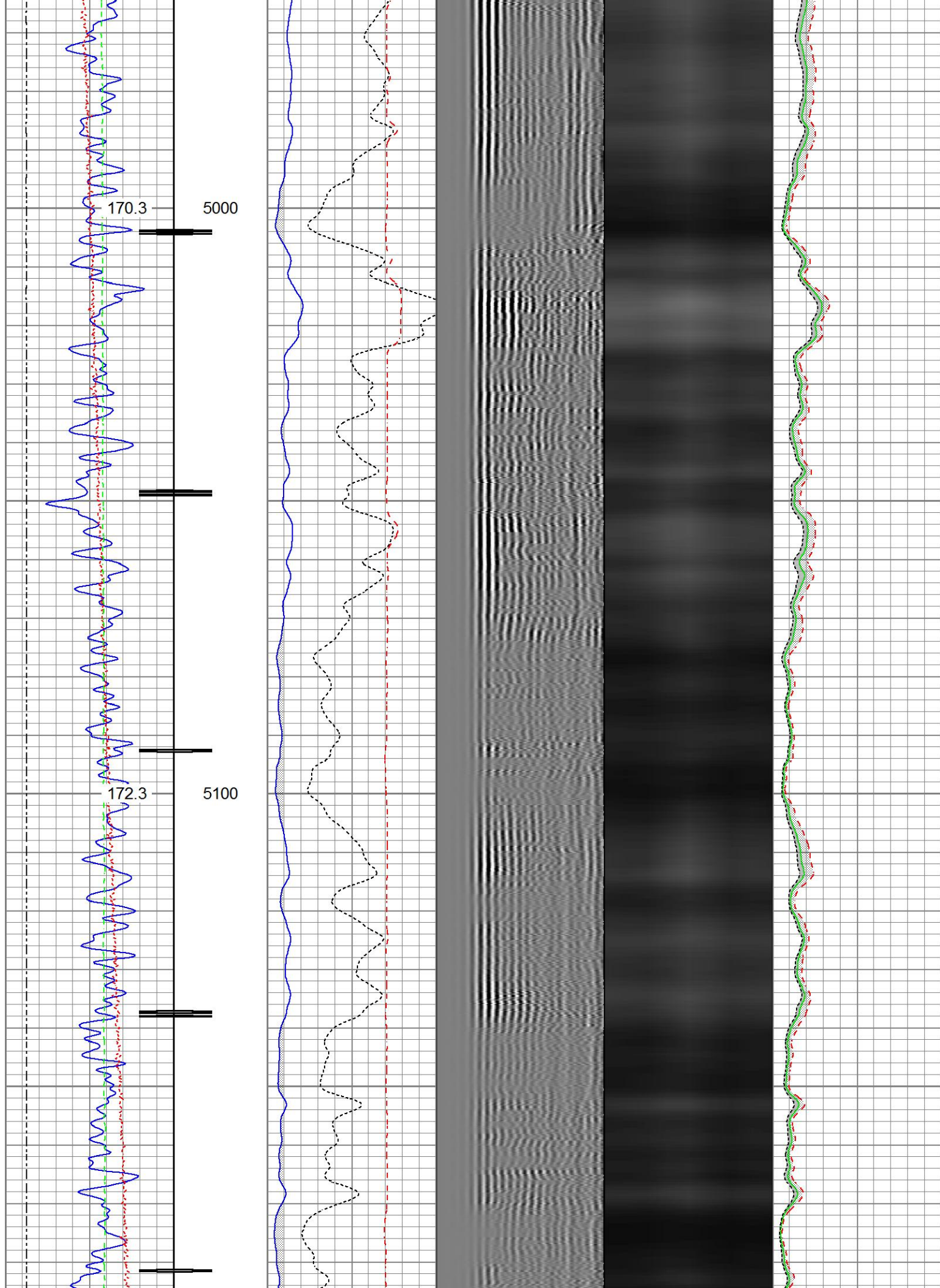


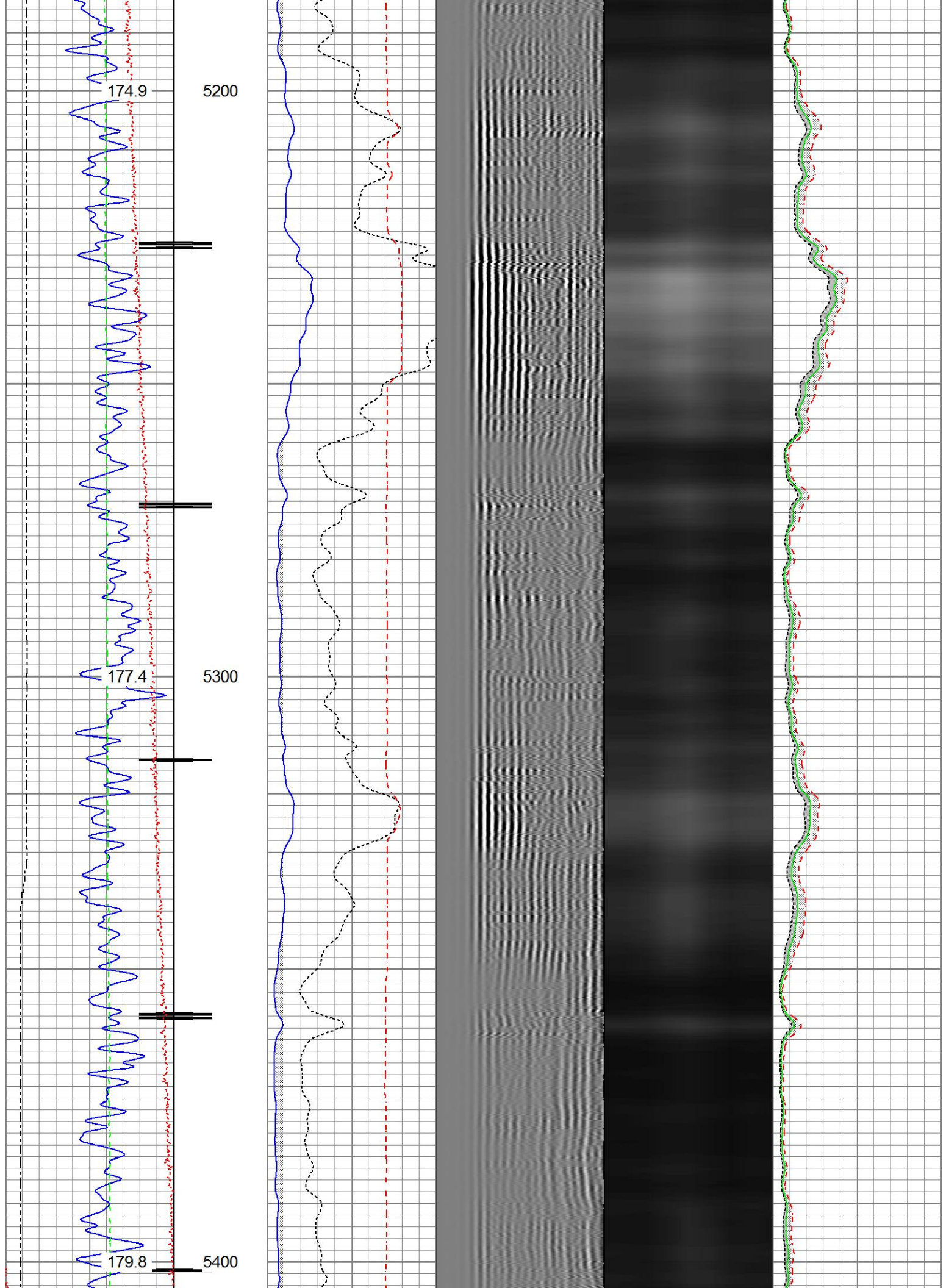


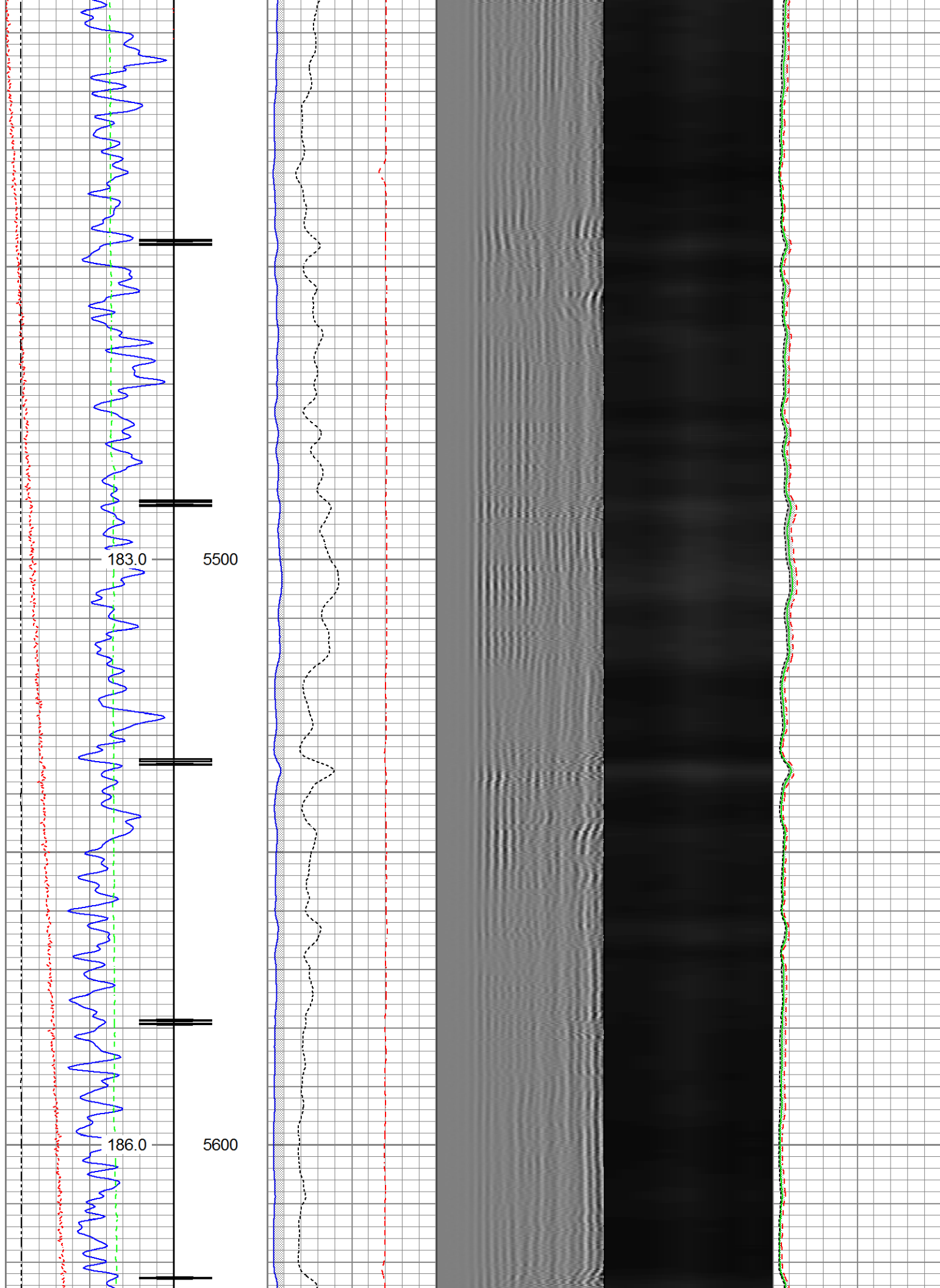


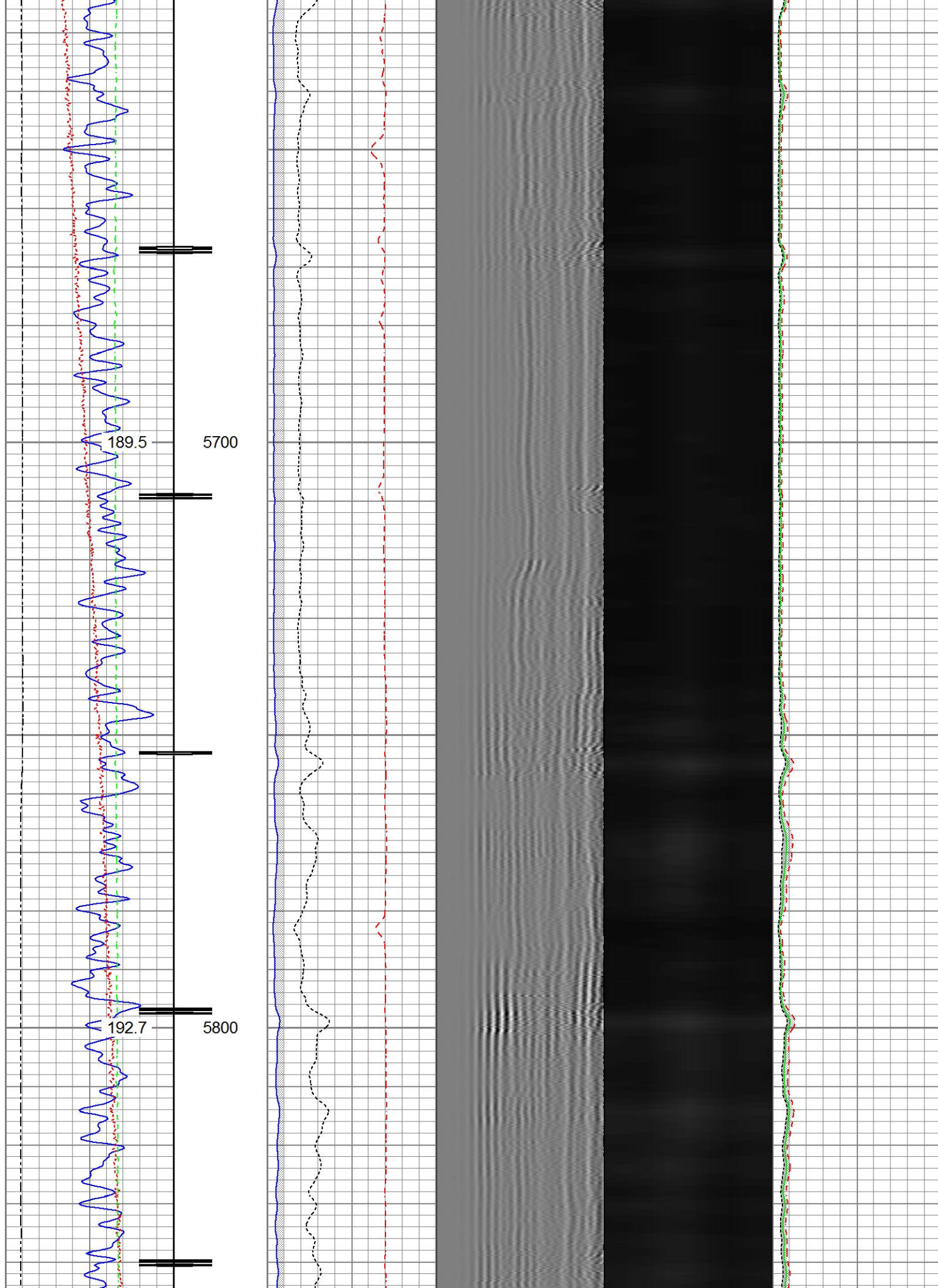


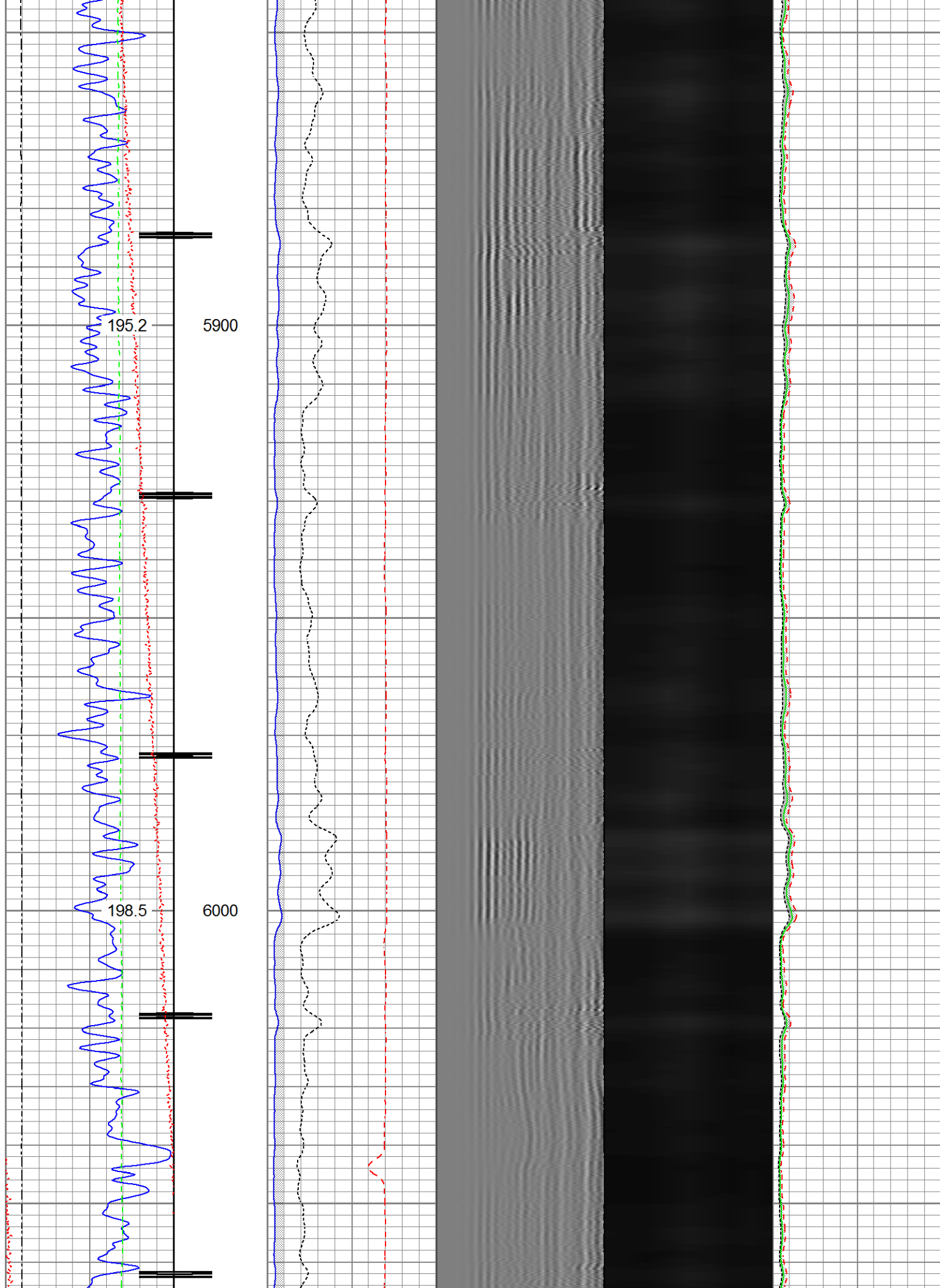


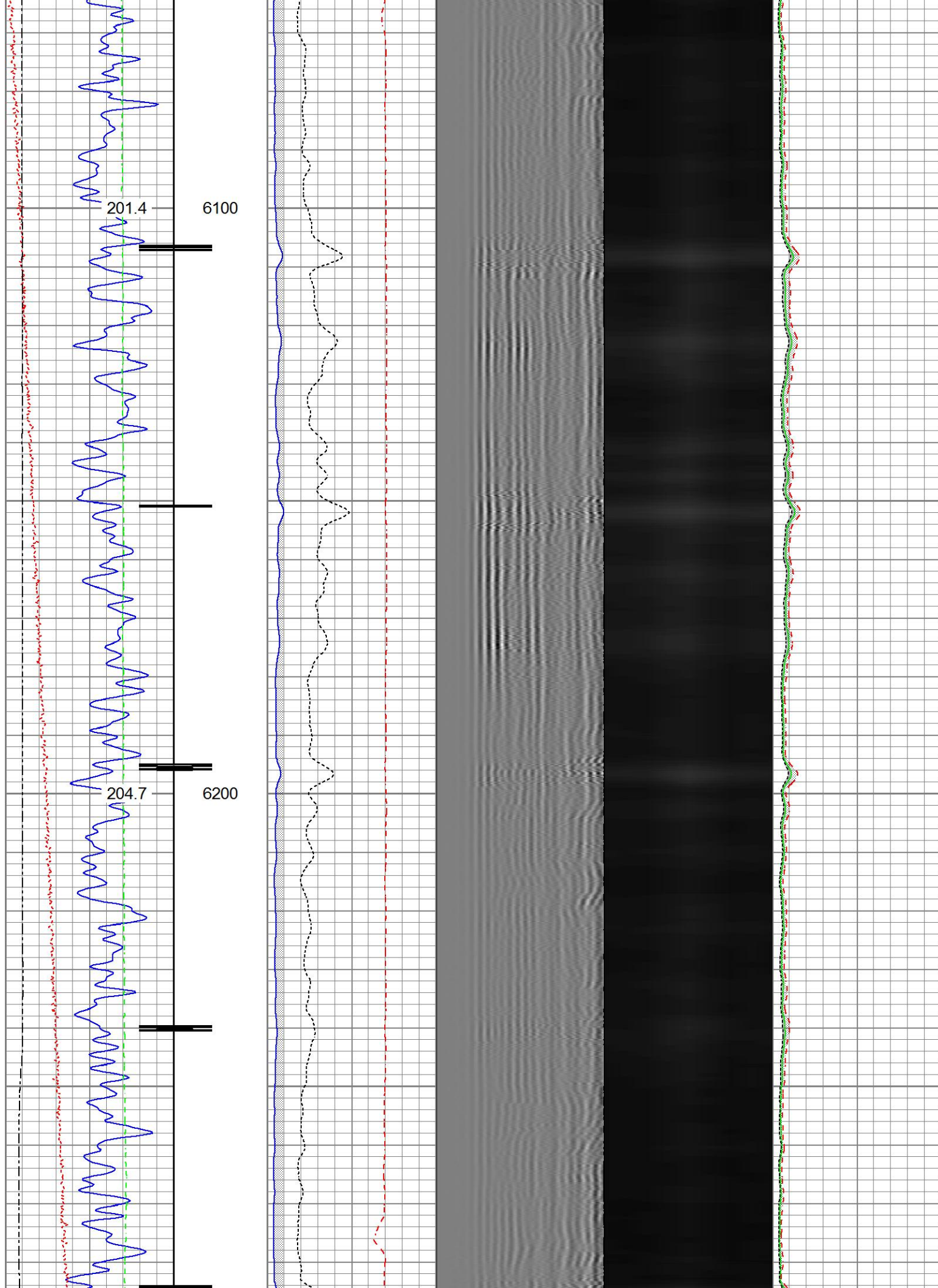


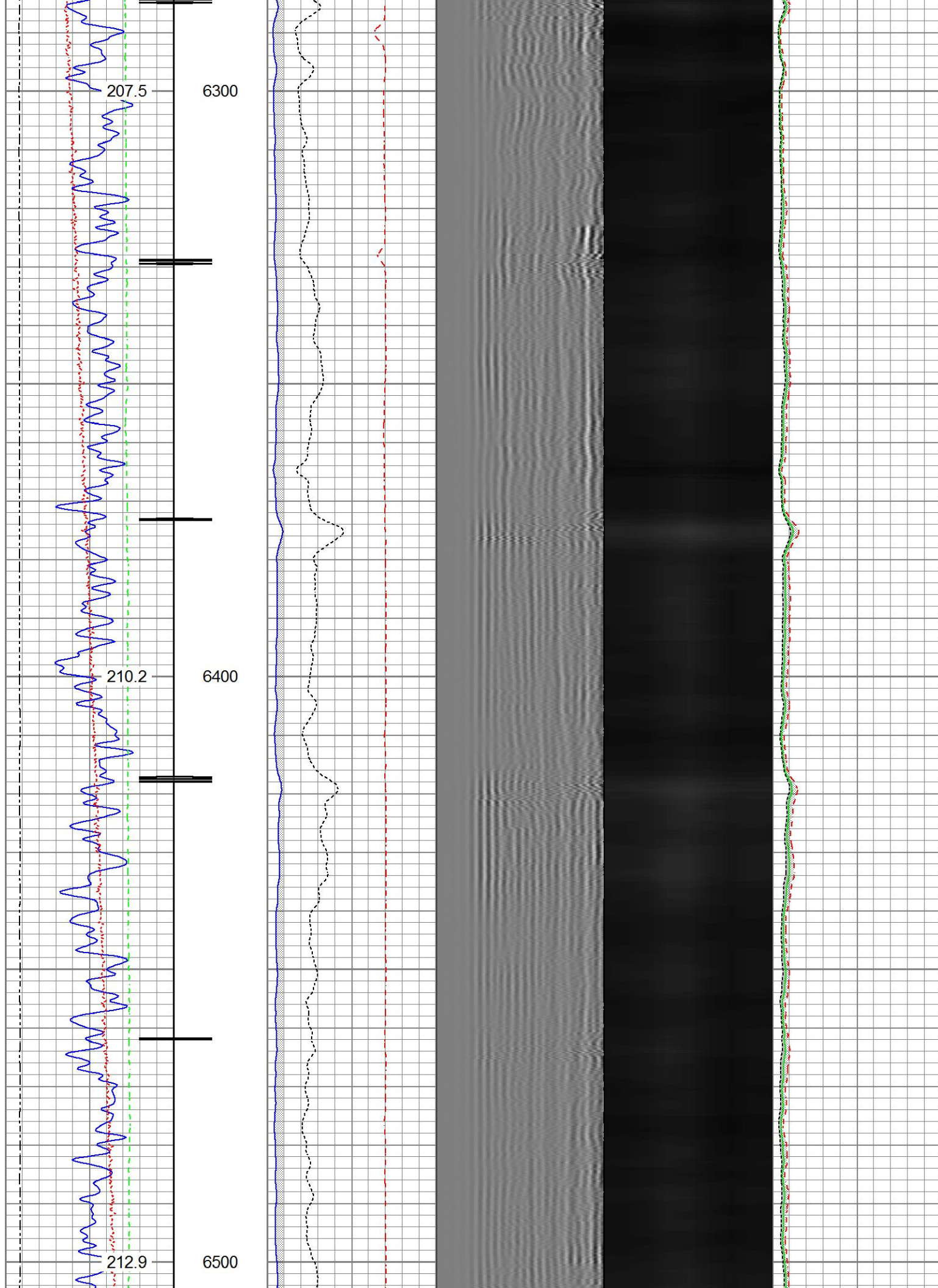


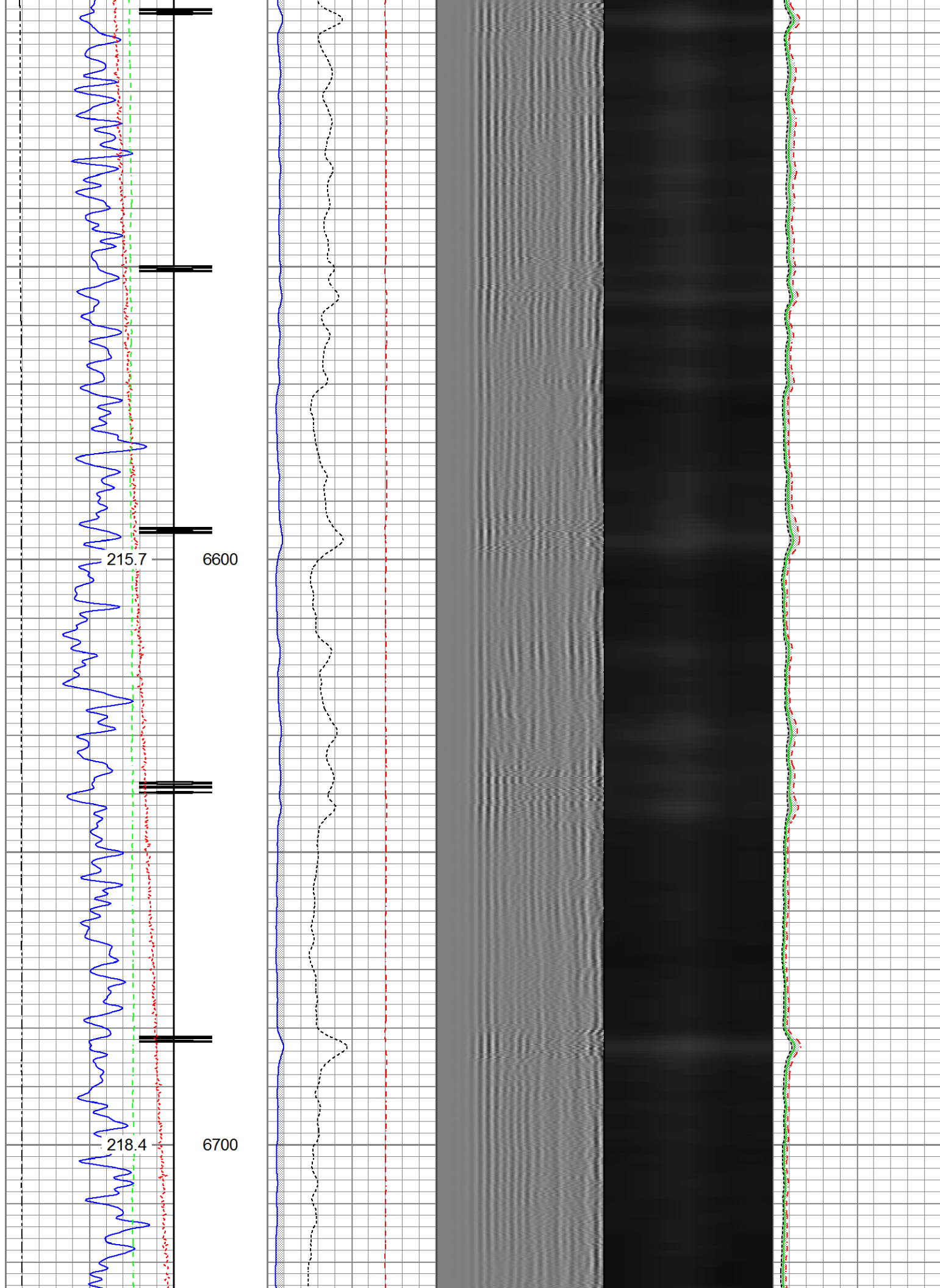


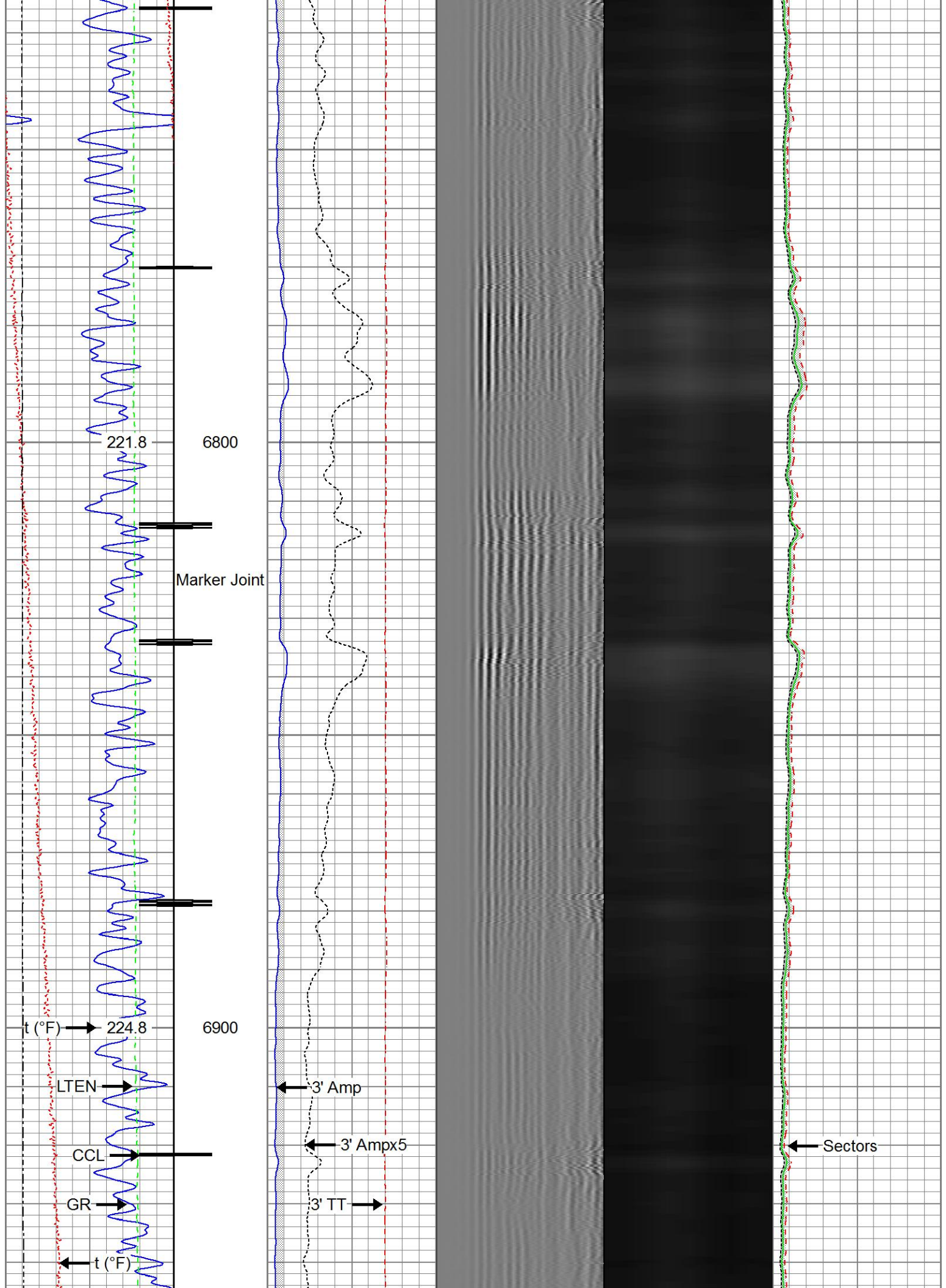


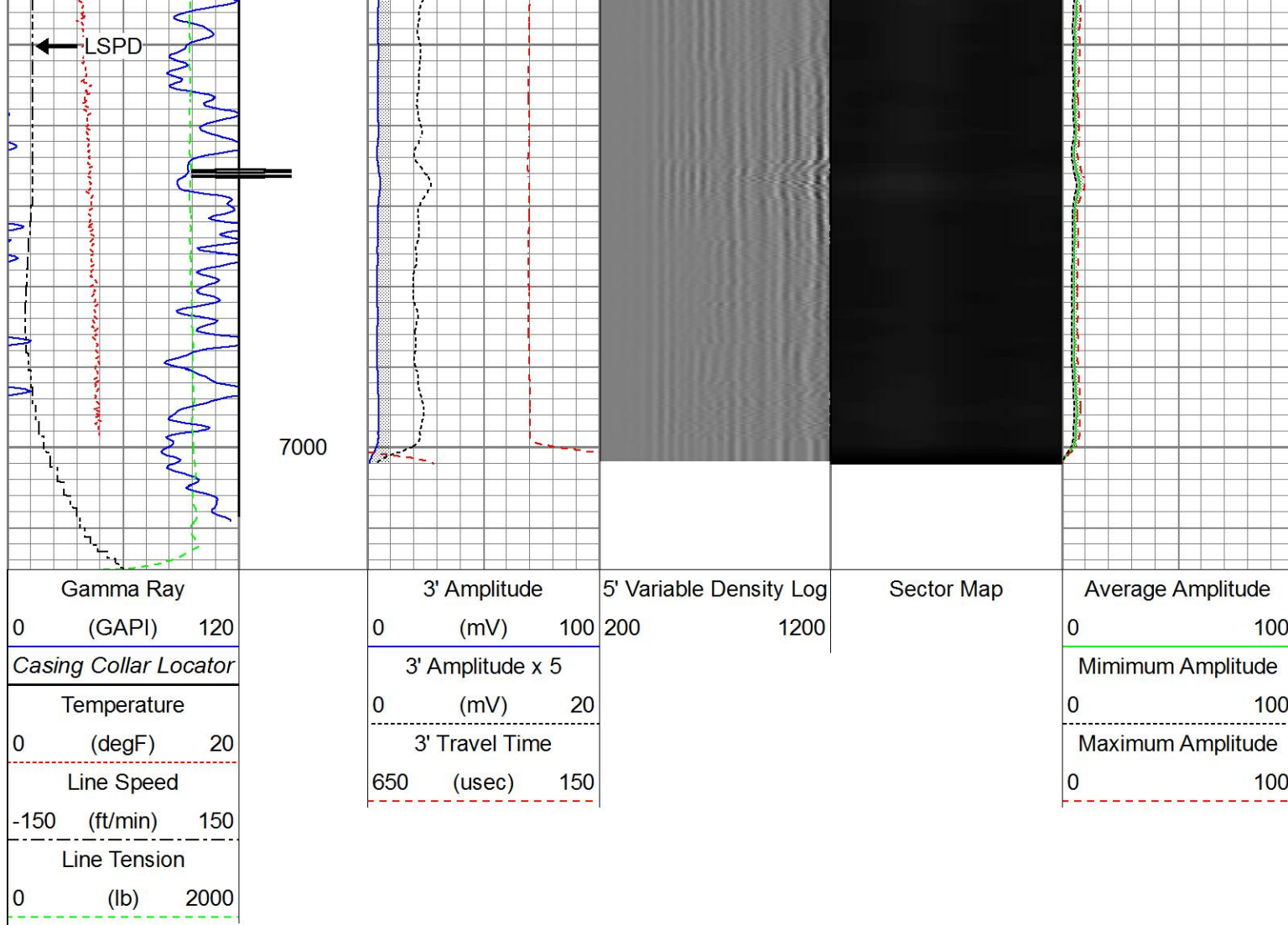








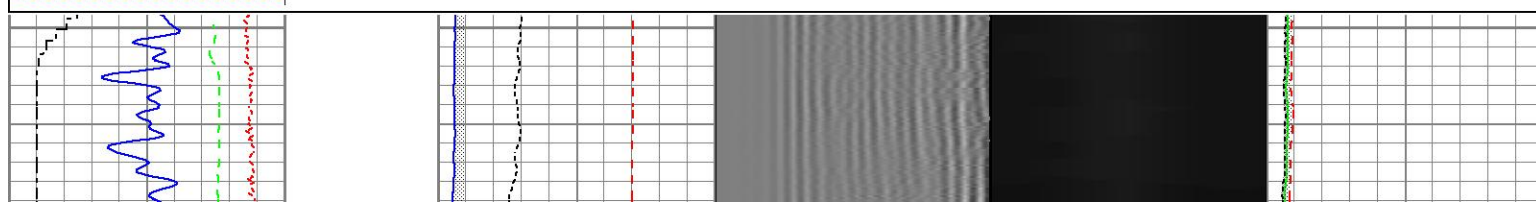
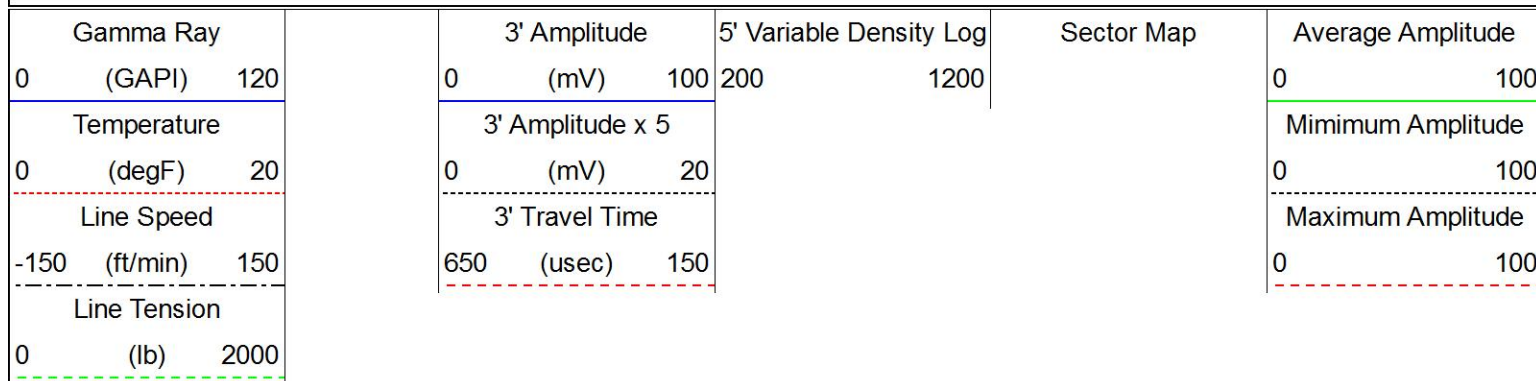


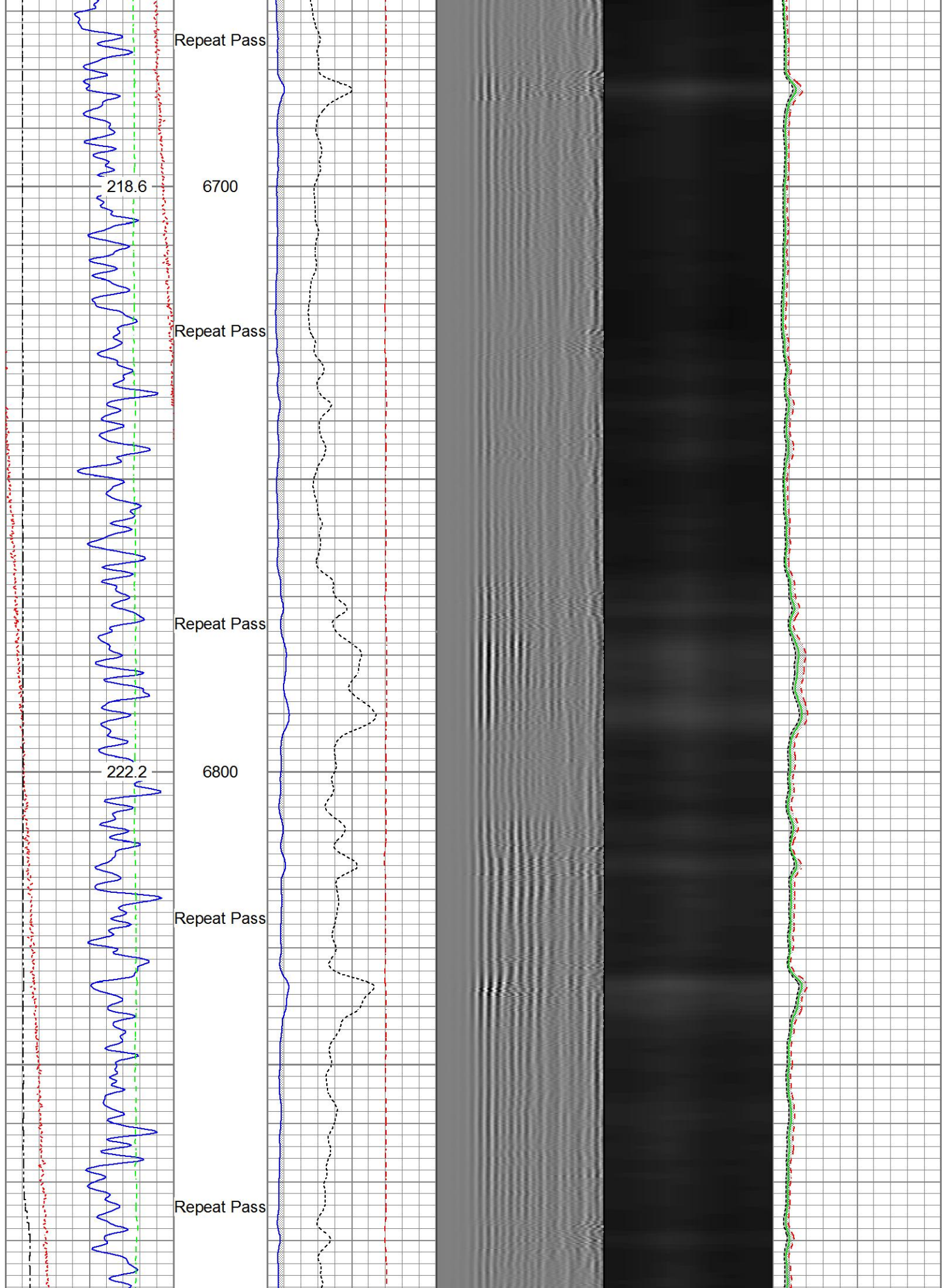


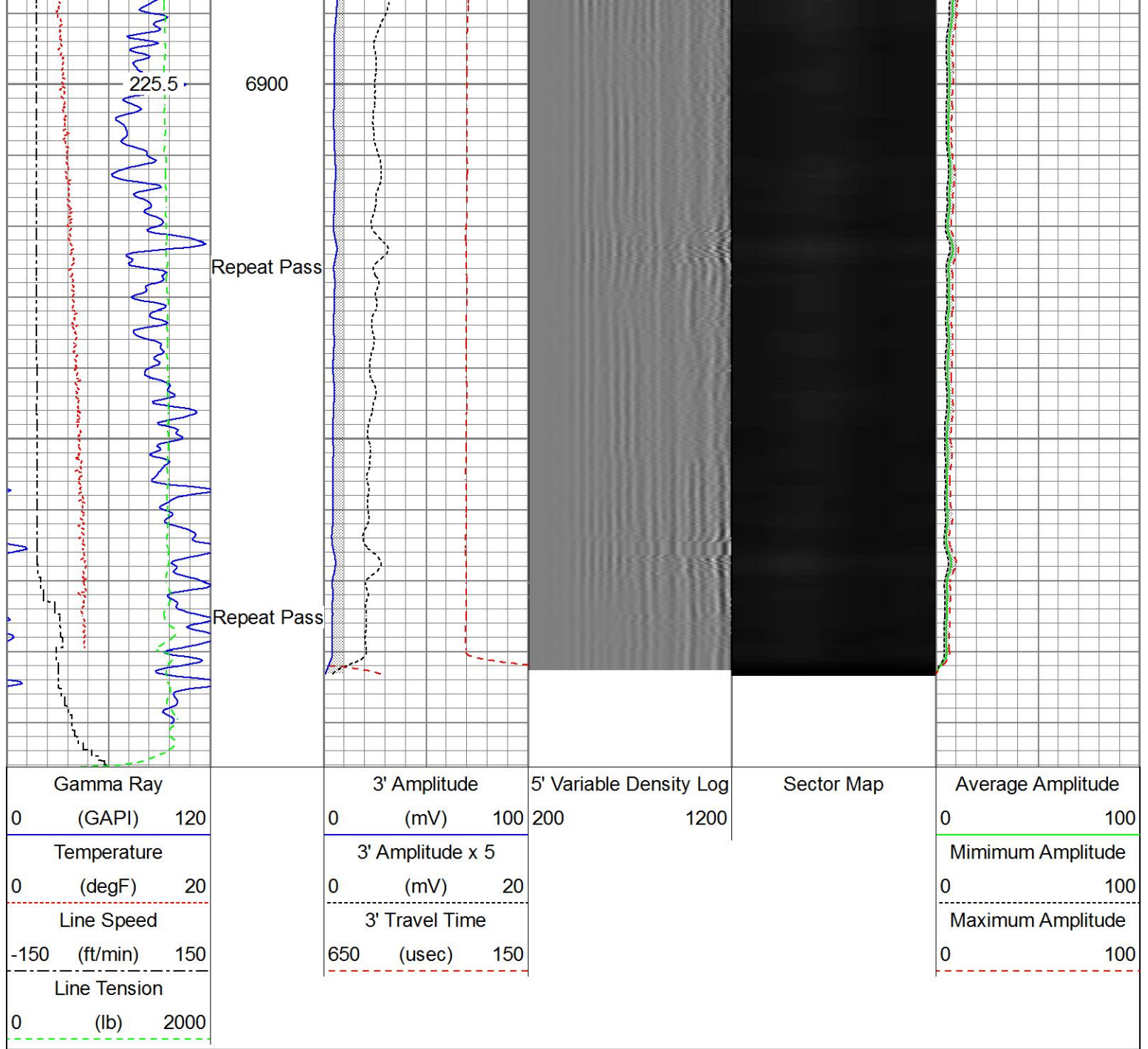
Repeat Pass

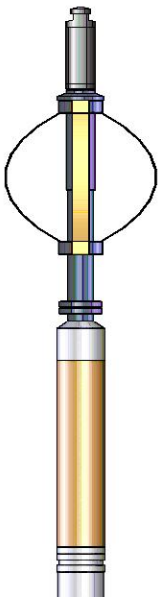
Recorded With 2500 PSI Surface Induced Pressure

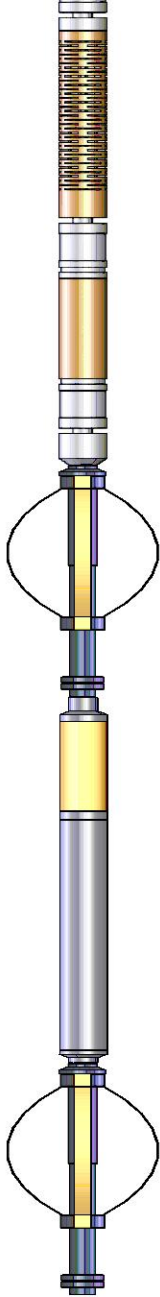
Database File synergy_hood 25c-22-m\synergy_hood 25c-22-m_rbl_06-28-17.db
 Dataset Pathname pass3.1
 Presentation Format ros_radrii
 Dataset Creation Thu Jun 29 09:52:19 2017
 Charted by Depth in Feet scaled 1:240







Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			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
Temp	16.72					

WVFS8	14.55		Probe_RADII-C-P_RBT_2750 (FW1305-099.19) 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_EE2.88.275 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	20.00	
CCL	6.51				
		Probe_GR_CCL-P_CGR_2750_S (FW1304.543) Probe 2-3/4" Digital CCL / Gamma Ray Combined	2.75	55.00	
GR	3.77				
		Probe_ELine_BowSpring_Centralizer-P_EE2.88.275 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	20.00	
Dataset: Synergy_Hood 25C-22-M_RBL_06-28-17.db: field/well/run1/pass6.2					
Total length: 23.40 ft					
Total weight: 225.40 lb					
O.D.: 2.75 in					

Calibration Report		
Database File	D:\Warrior\Data\Synergy_Hood 25C-22-M\Synergy_Hood 25C-22-M_RBL_06-28-17.db	
Dataset Pathname	pass6.2	
Dataset Creation	Wed Jun 28 08:36:40 2017	
Gamma Ray Calibration Report		
Serial Number:	FW1307-038	
Tool Model:	P_CGR_2750_S	
Performed:	Sat Feb 06 11:43:09 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.6	cps
Sensitivity:	0.6061	GAPI/cps

Serial Number: FW1305-096
 Tool Model: P_RBT_2750

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 1.671 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.665	0.800	71.921	106.963	0.761
CAL	0.747	0.752				
5'	0.000	0.617	0.800	71.921	115.250	0.774
SUM						
S1	0.001	0.658	0.000	100.000	152.383	-0.197
S2	0.001	0.671	0.000	100.000	149.322	-0.163
S3	0.001	0.681	0.000	100.000	147.068	-0.100
S4	0.002	0.688	0.000	100.000	145.670	-0.236
S5	0.001	0.719	0.000	100.000	139.431	-0.195
S6	0.001	0.739	0.000	100.000	135.442	-0.124
S7	0.001	0.709	0.000	100.000	141.222	-0.152
S8	0.001	0.687	0.000	100.000	145.845	-0.145

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.747	0.752	1.000	0.000

Air Zero Calibration, performed Tue Jun 27 13:47:40 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.012		0.000		-0.000	
5'	0.012		0.000		-0.000	
SUM						
S1	0.017		0.000		0.001	
S2	0.012		0.000		0.000	
S3	0.012		0.000		-0.000	
S4	0.011		0.000		0.001	
S5	0.011		0.000		0.001	
S6	0.010		0.000		0.000	
S7	0.008		0.000		0.000	
S8	0.013		0.000		0.000	



Company Synergy Resources Corporation
 Well Hood 25C-22-M
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 County Weld
 State Colorado