



Radial Cement Bond
Gamma Ray
Casing Collar Log

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

Location: API #: 05-123-44879

SEC 32 TWP 6N RGE 66W

Permanent Datum
Log Measured From
Drilling Measured From

Ground Level
Ground Level
Kelly Bushing

Elevation
0 FT

Other Services
JB/GR
RBP
Elevation
K.B. 4726'
D.F. 4725'
G.L. 4706'

Date 31-OCT-2017

Two

Run Number
Depth Driller
Depth Logger
Bottom Logged Interval
Top Log Interval
Open Hole Size

18622 FT
6630 FT
6625 FT
Surface
7.875"

Type Fluid
Density / Viscosity
Max. Recorded Temp.
Estimated Cement Top
Time Well Ready
Time Logger on Bottom
Equipment Number

Water
8.34 lb/gal
216°F
See Log
ROA
9-30
HD-0324

Location
Recorded By
Witnessed By

Fort Lupton, CO
Jason Morrison
Brian Moore

Borehole Record

Run Number
Bit
From
To

Size (in)
Weight (lb/ft)

From
To

Grade

Top
Surface

Bottom
1700 FT

18599 FT

18599 FT

18599 FT

18599 FT

18599 FT

18599 FT

18599 FT

18599 FT

18599 FT

18599 FT

18599 FT

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18599 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
Depth referenced to Marker Joint reported at 6397 FT
Adjusted Log -12 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

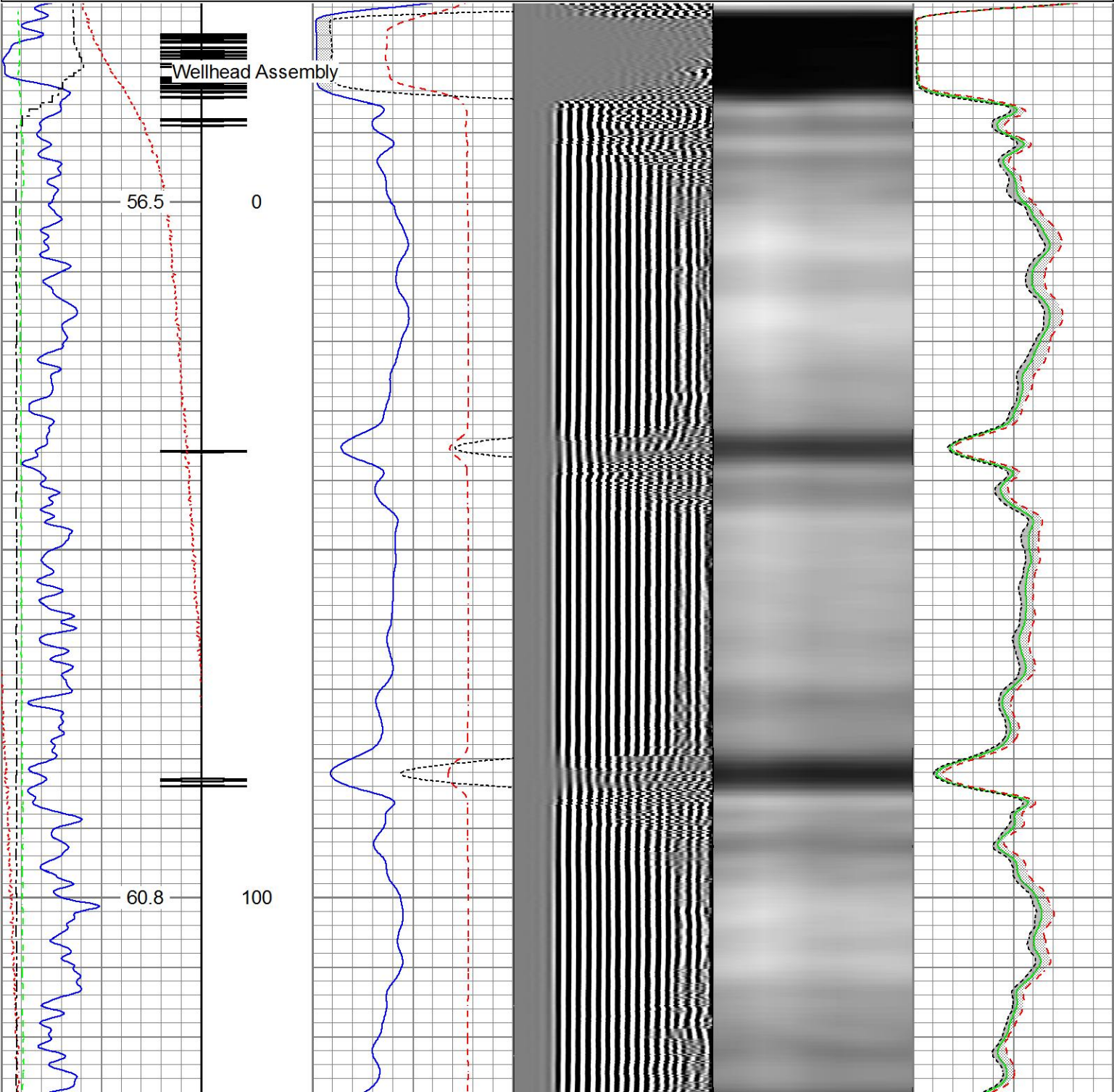
Thank you for choosing Reliance Oilfield Services, LLC!!

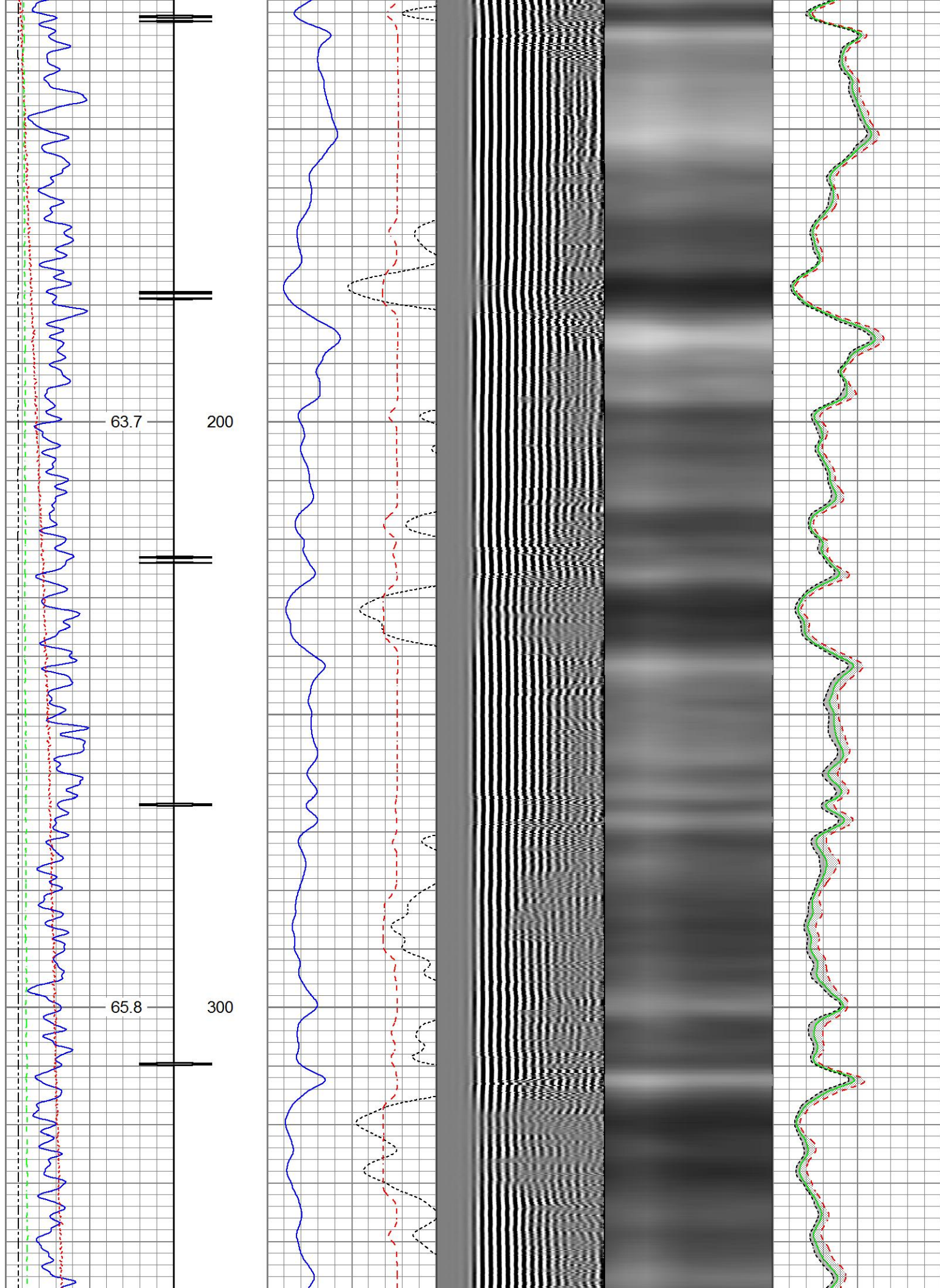


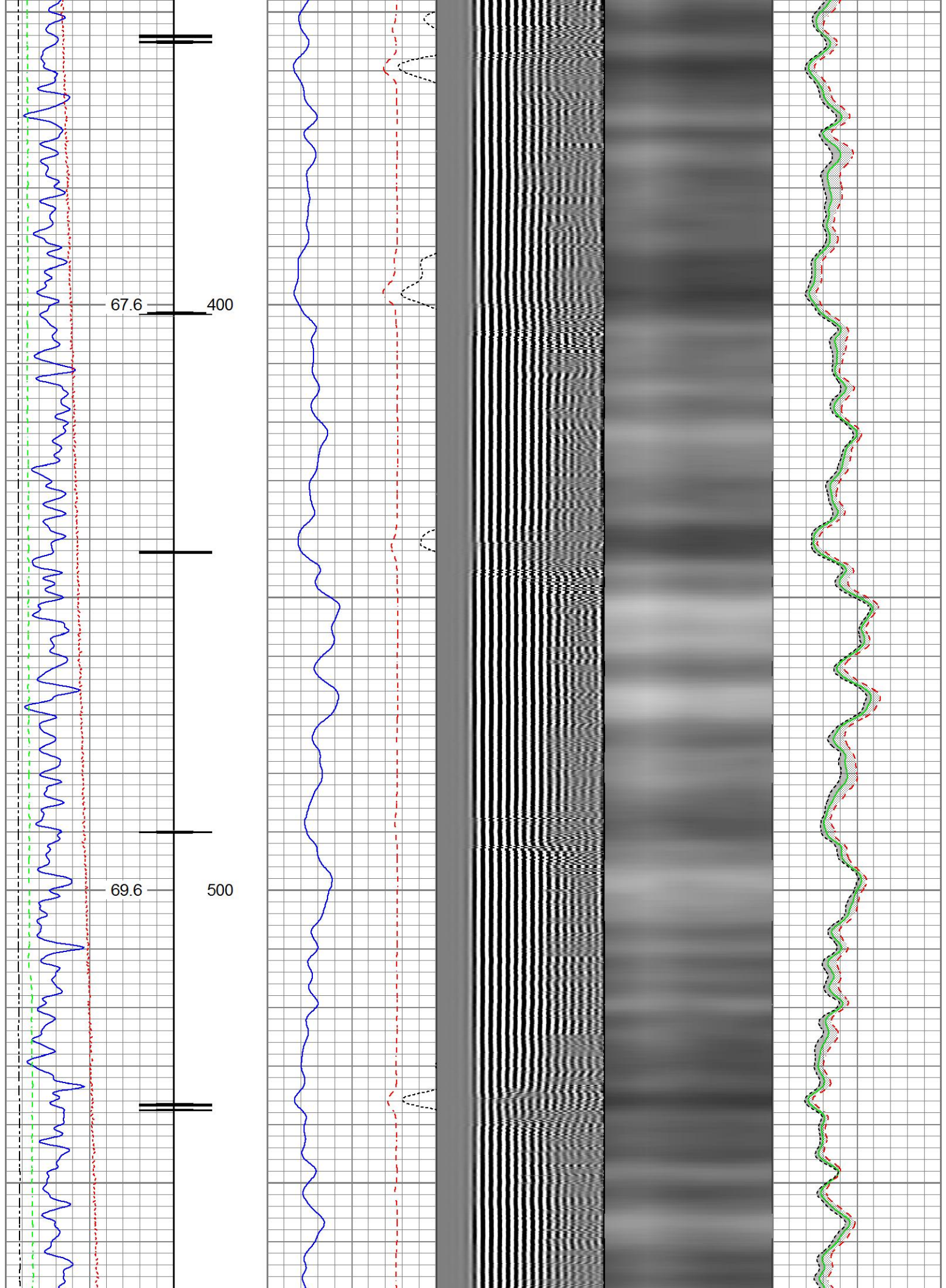
Main Pass

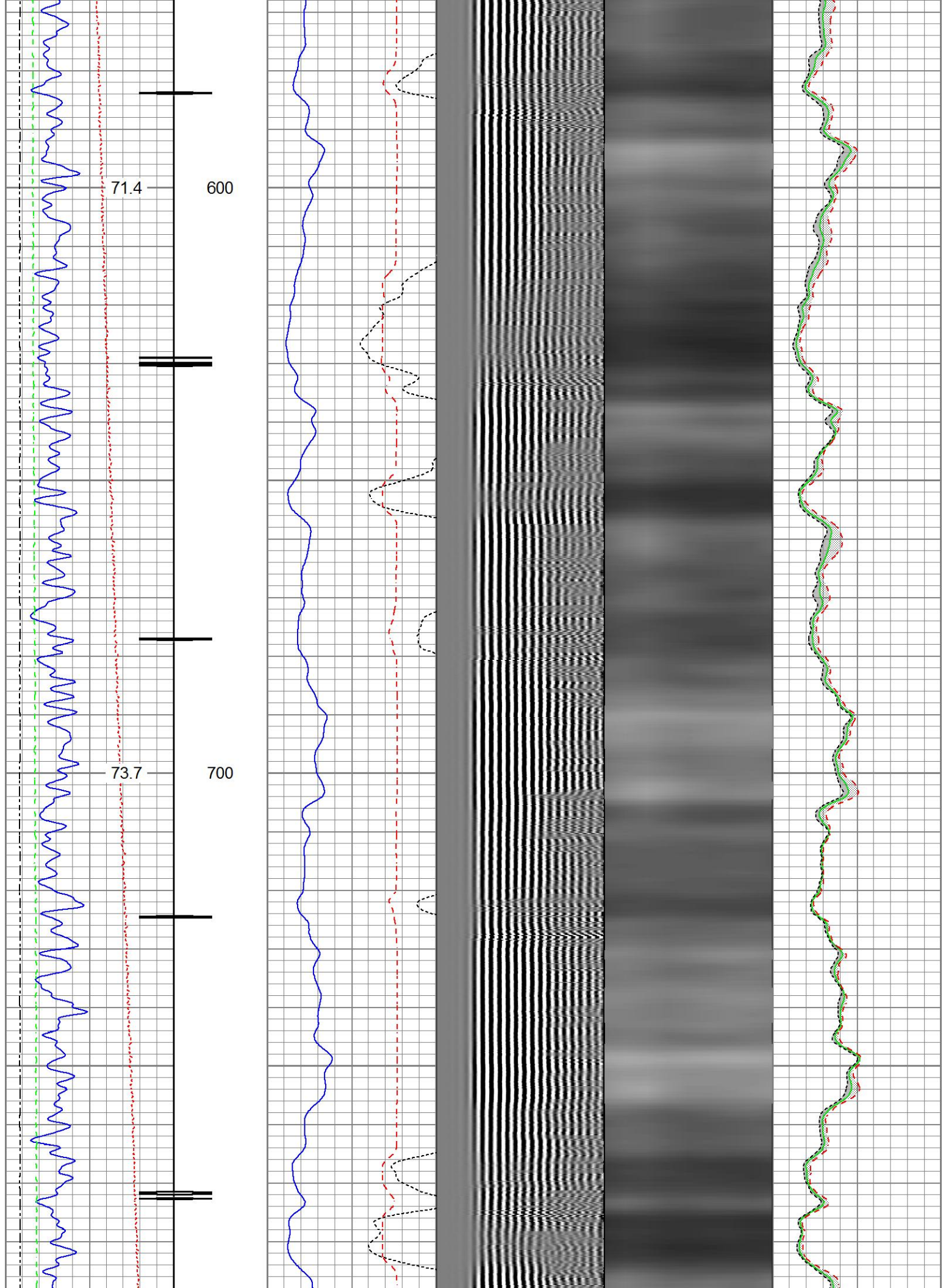
Recorded With 2000 PSI Surface Induced Pressure

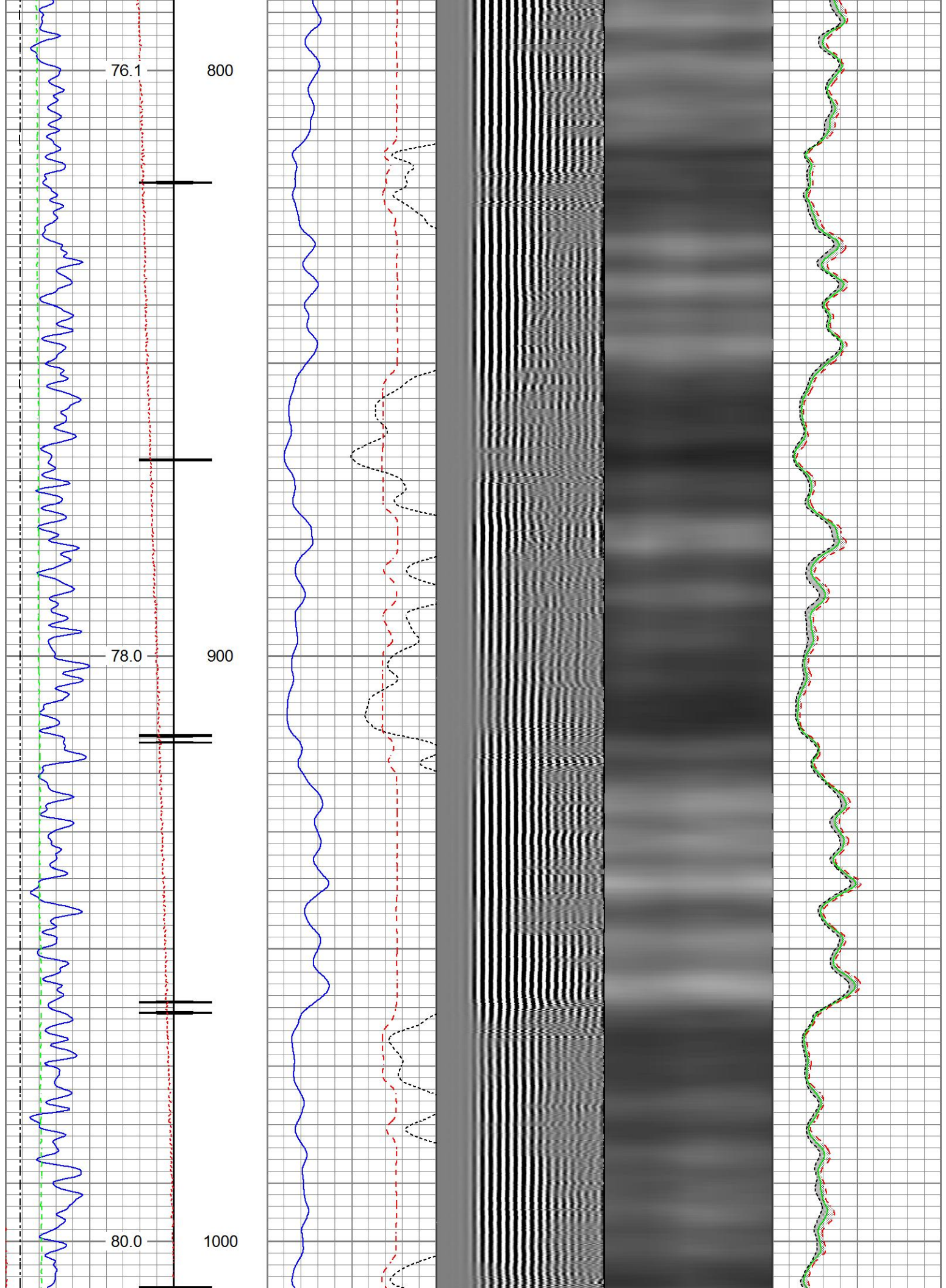
Gamma Ray			3' Amplitude			5' Variable Density Log		Sector Map	Average Amplitude	
0	(GAPI)	120	0	(mV)	100	200	1200		0	100
Casing Collar Locator			3' Amplitude x 5						Minimum Amplitude	
Temperature			0 (mV) 20						0 100	
0	(degF)	20	3' Travel Time						Maximum Amplitude	
Line Speed			650 (usec) 150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

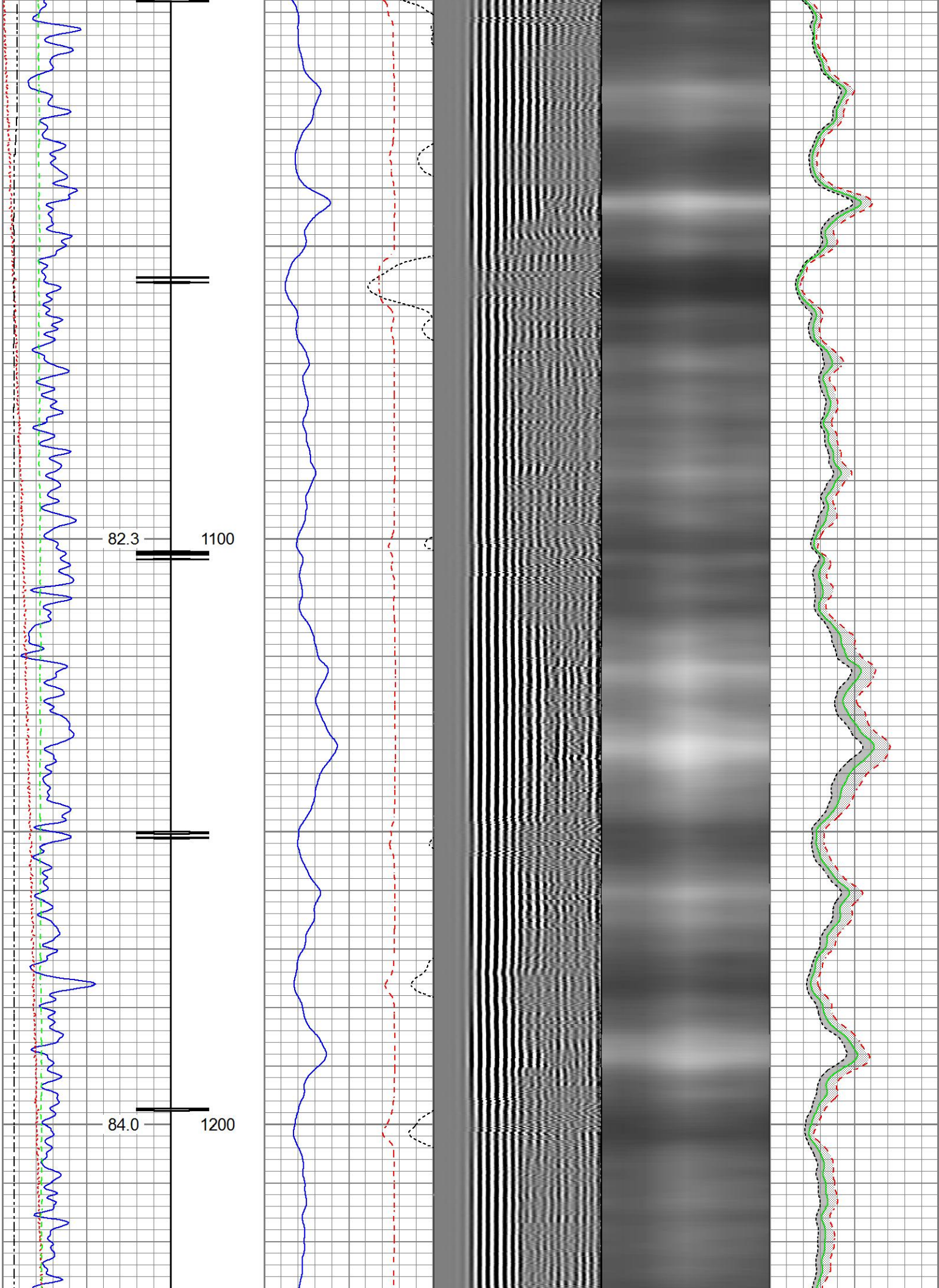


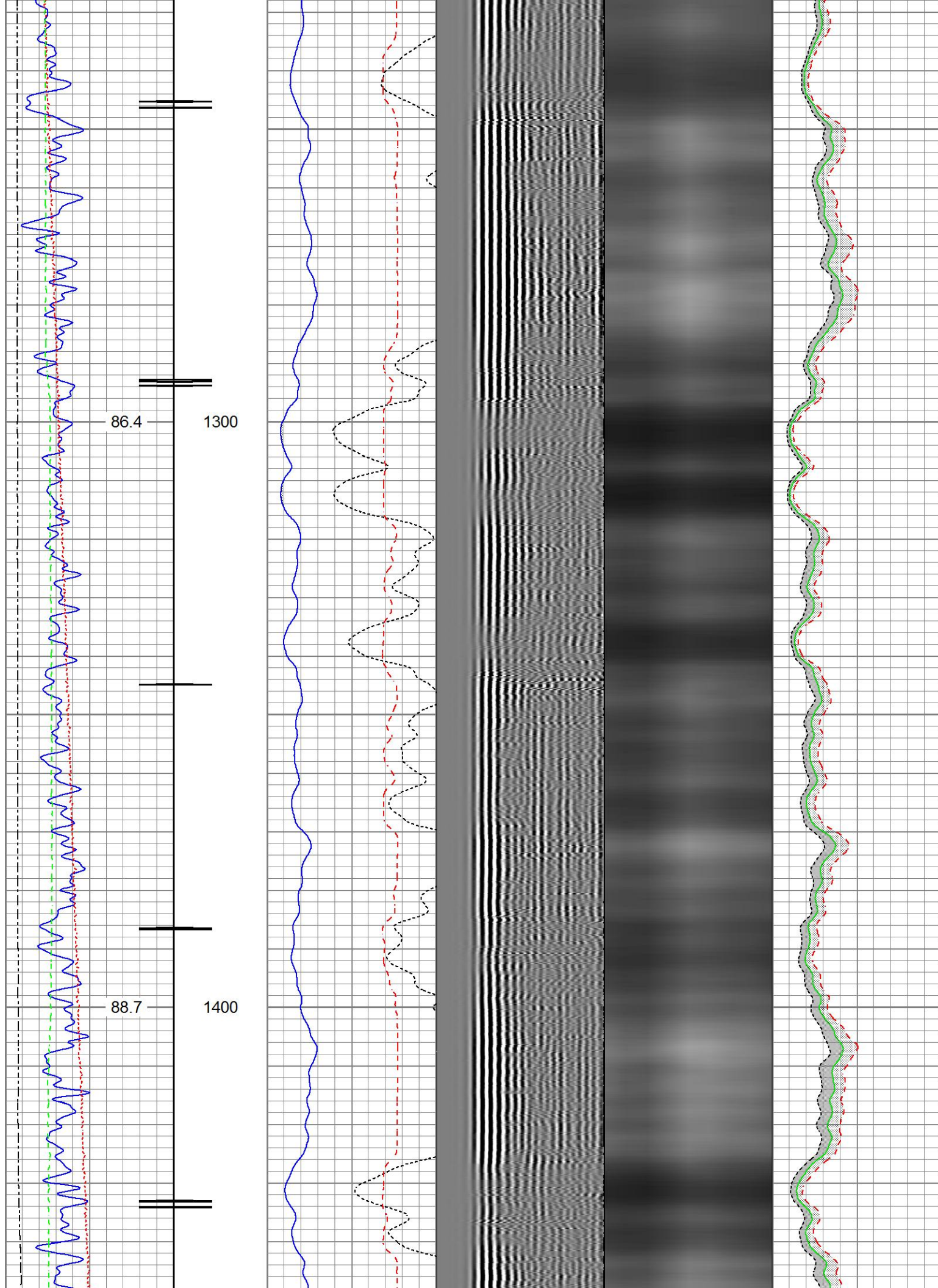


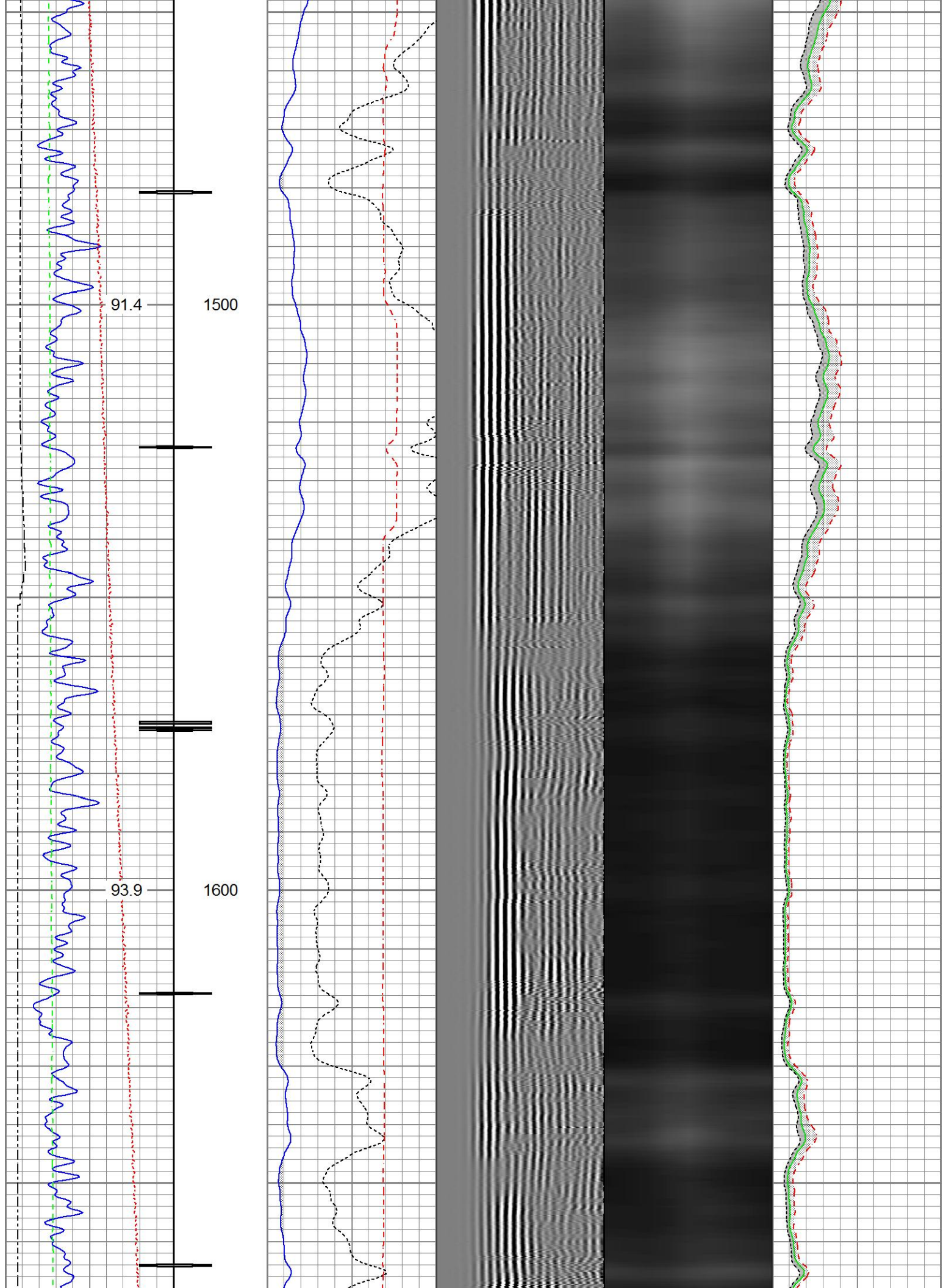


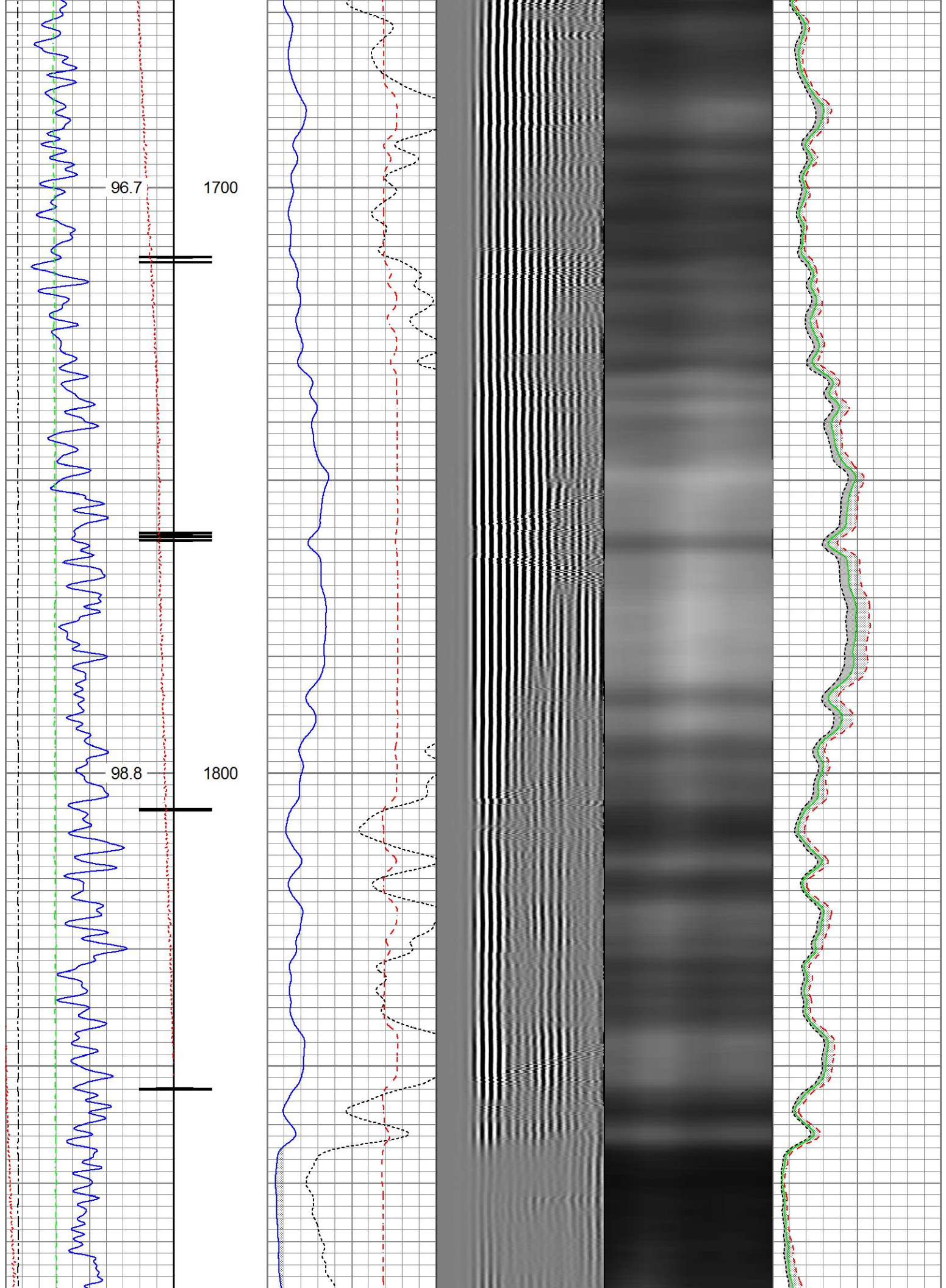


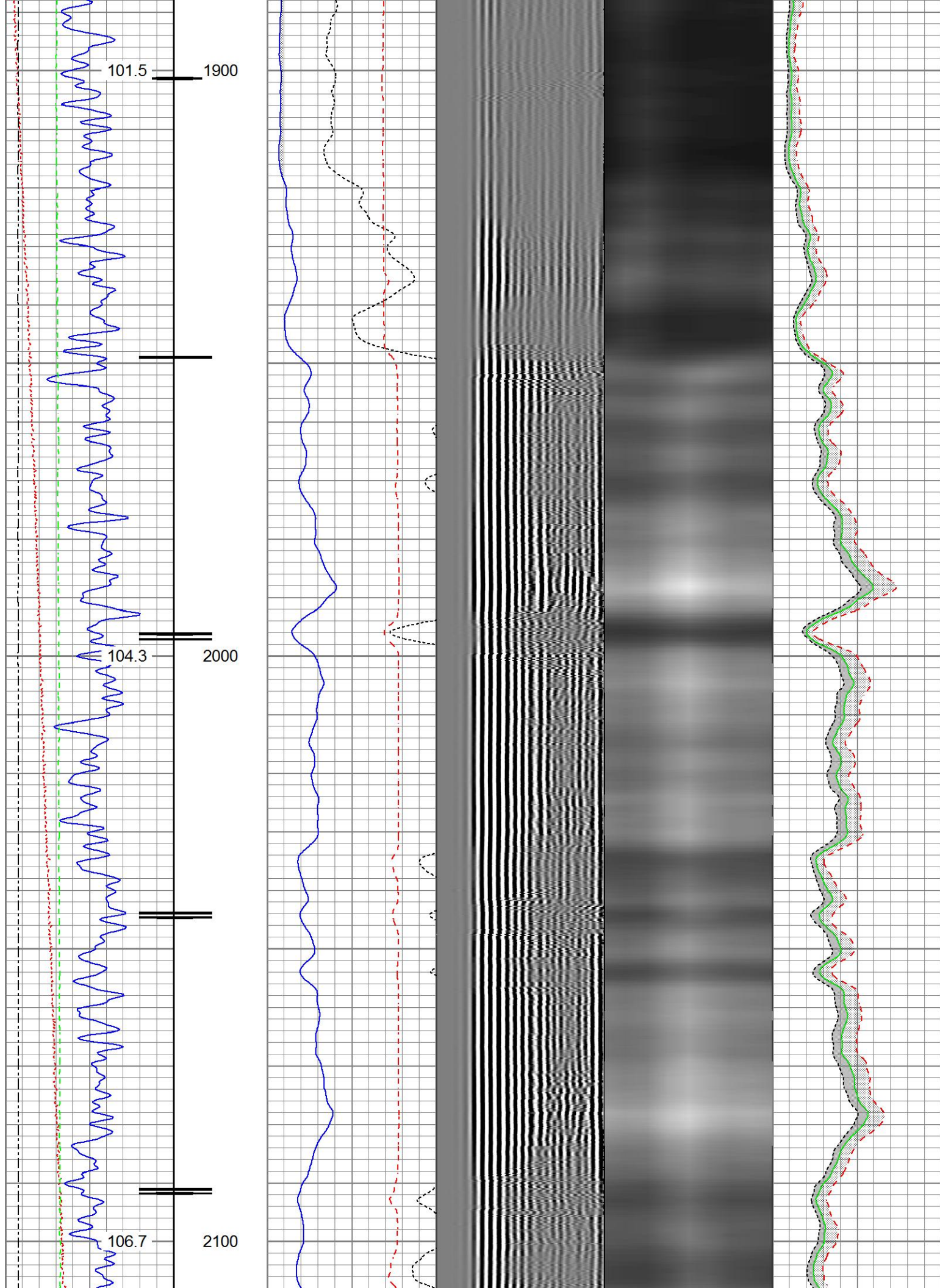


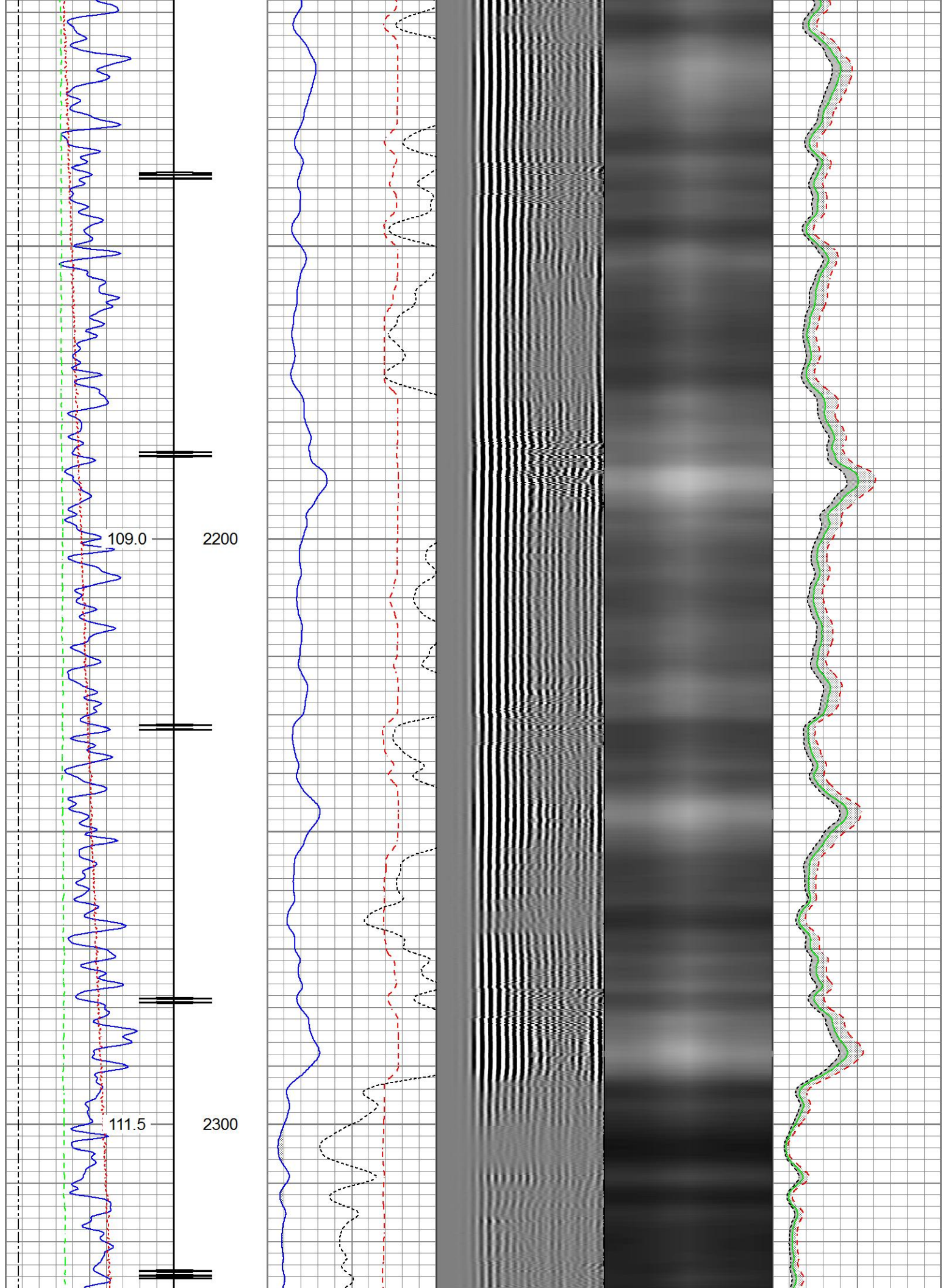


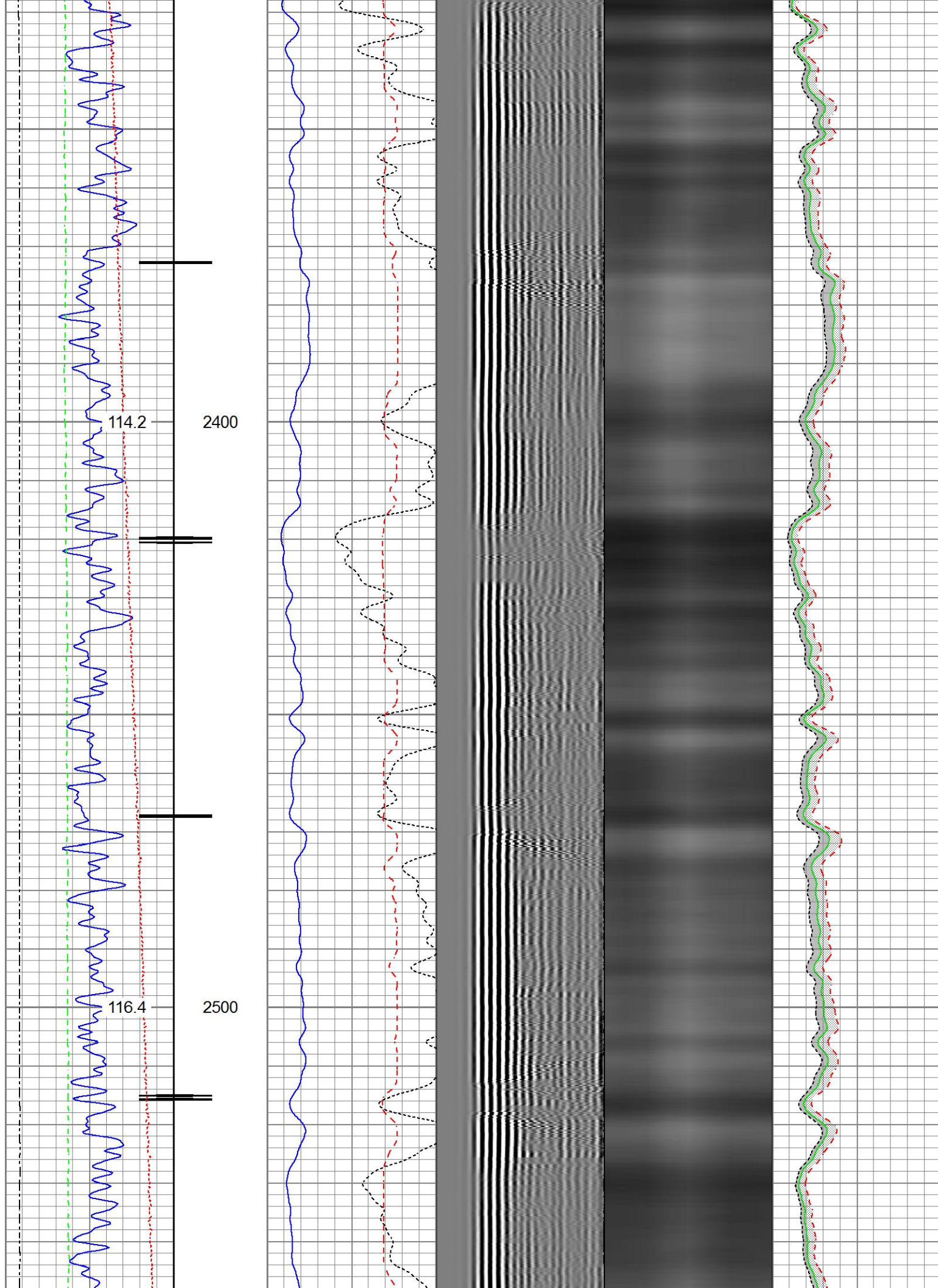


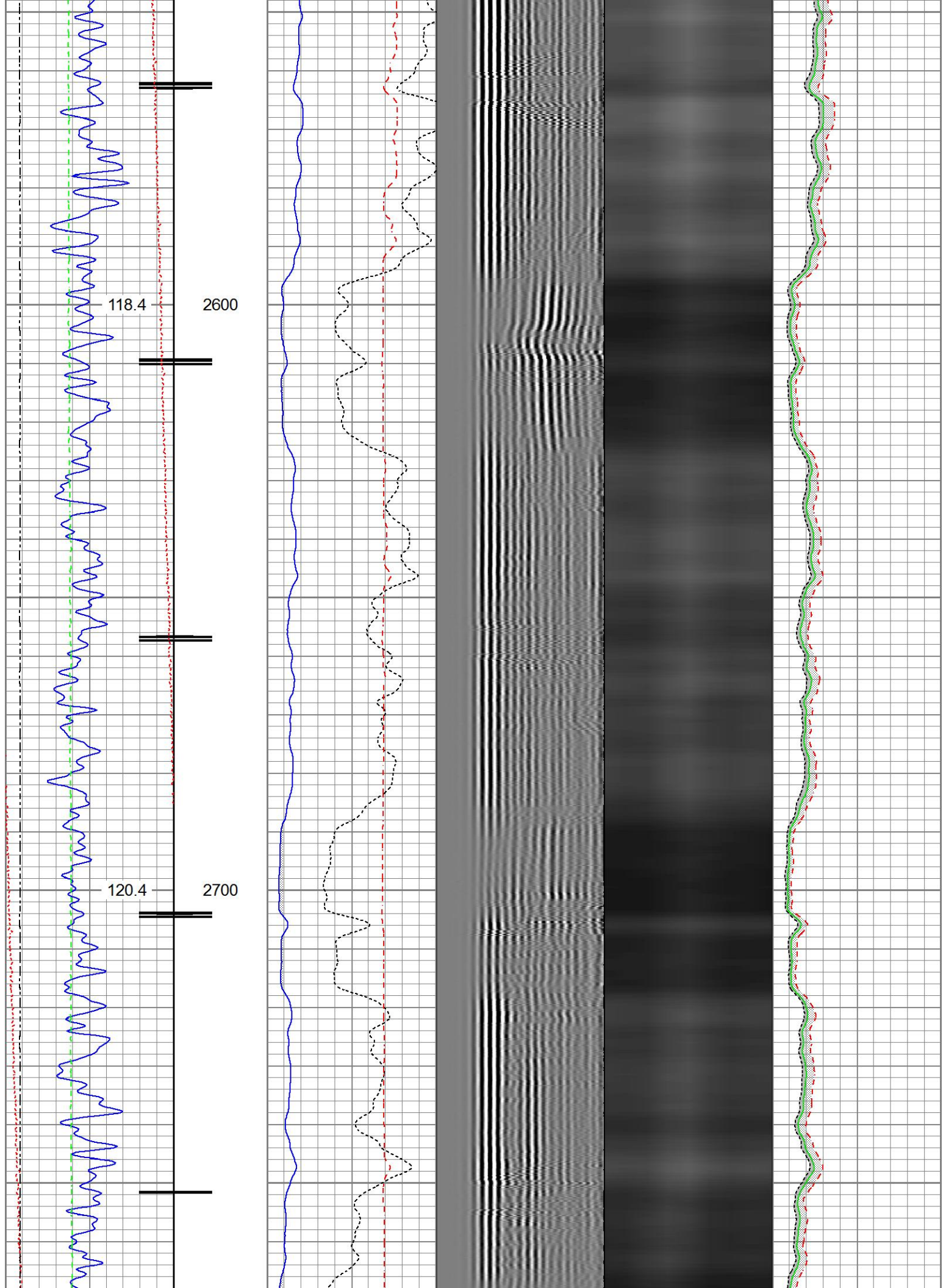


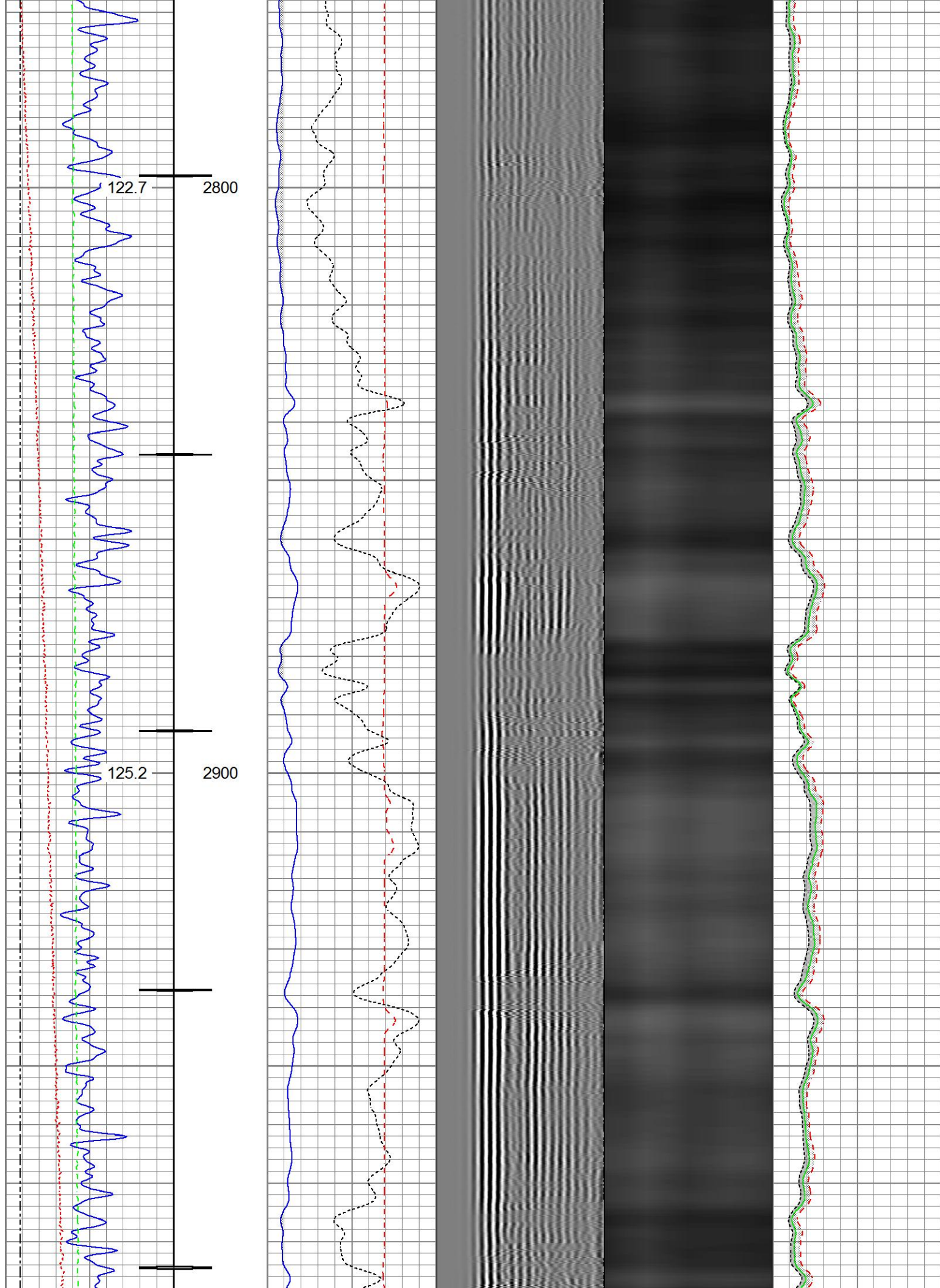


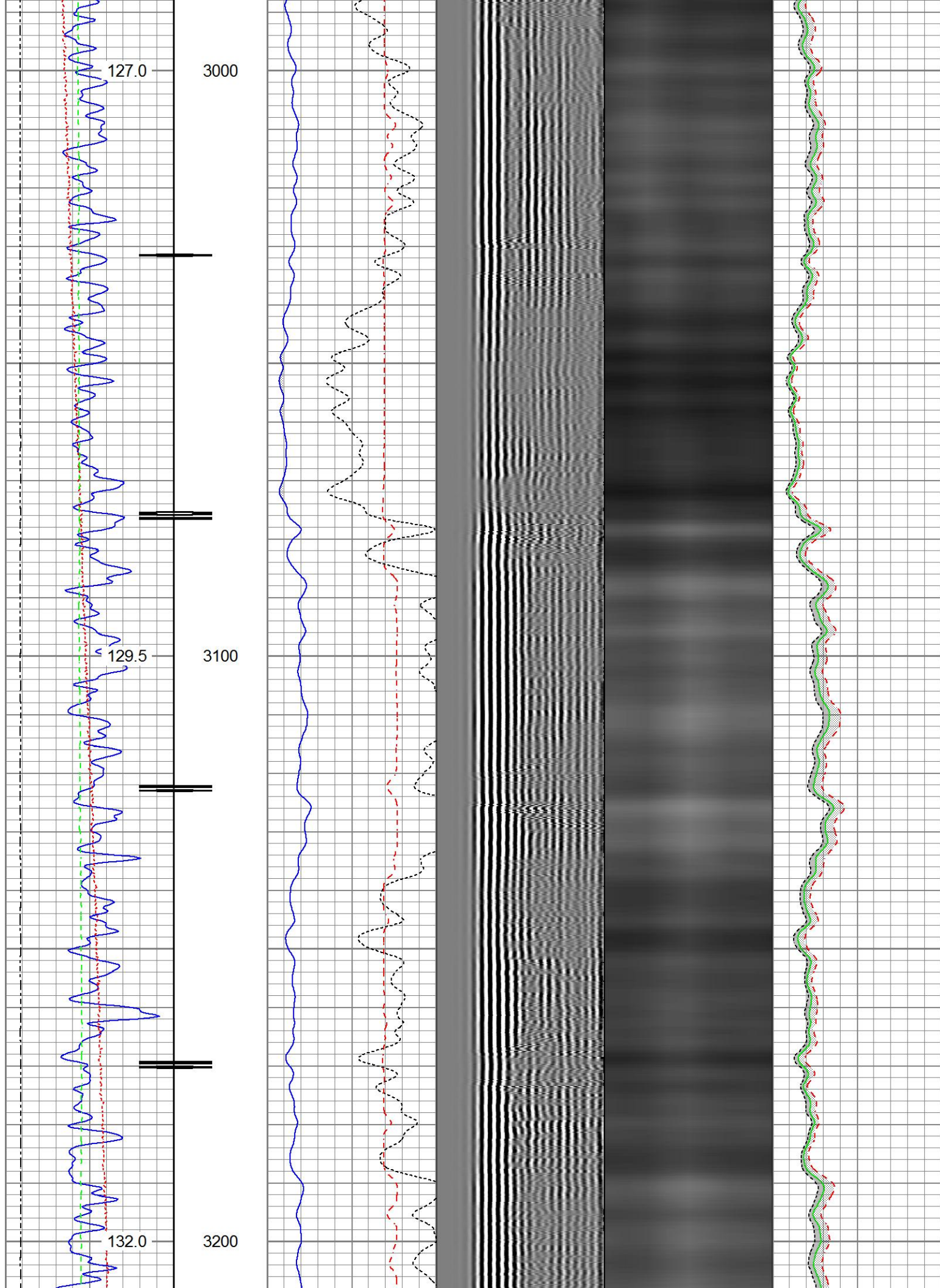


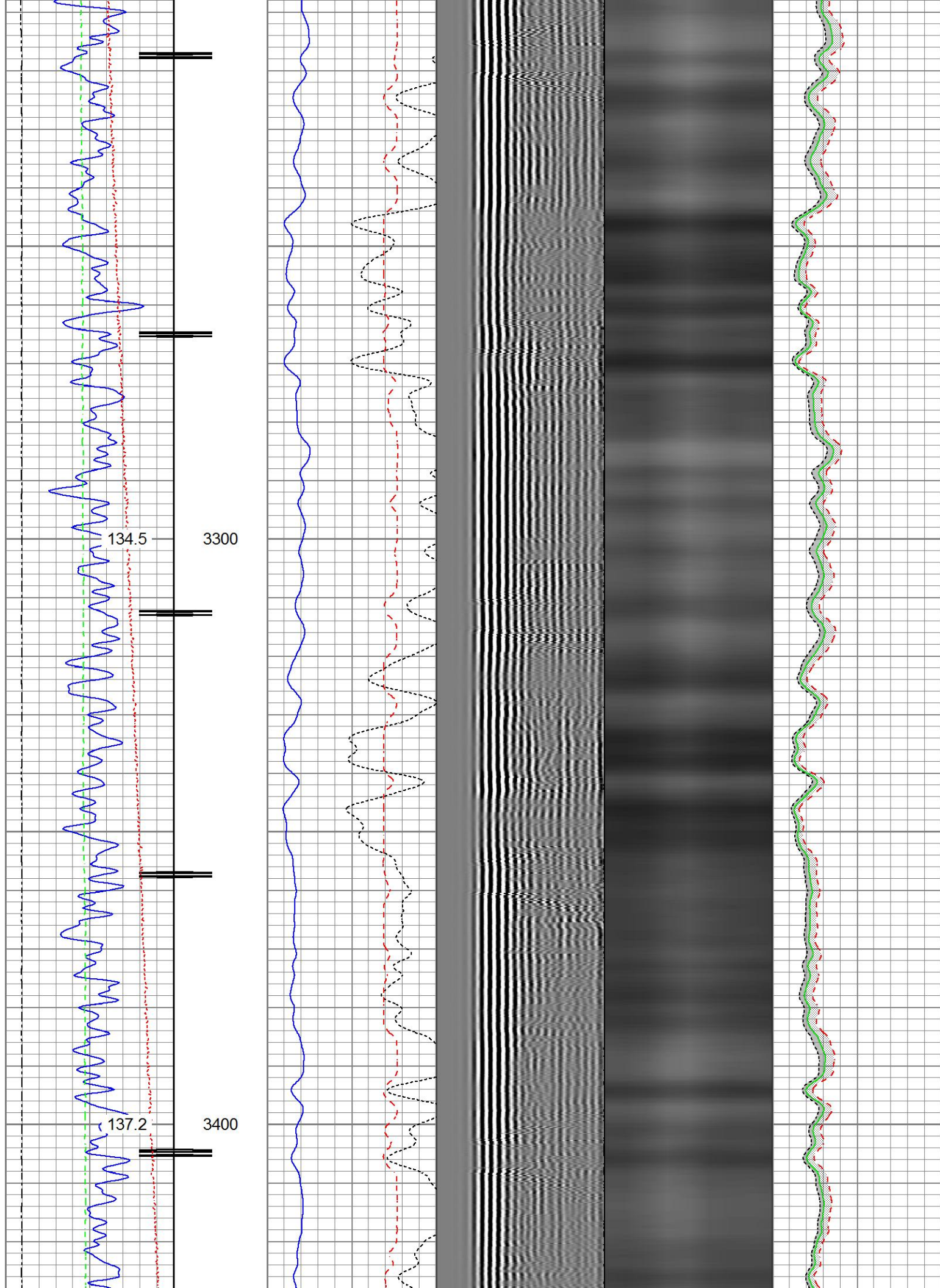


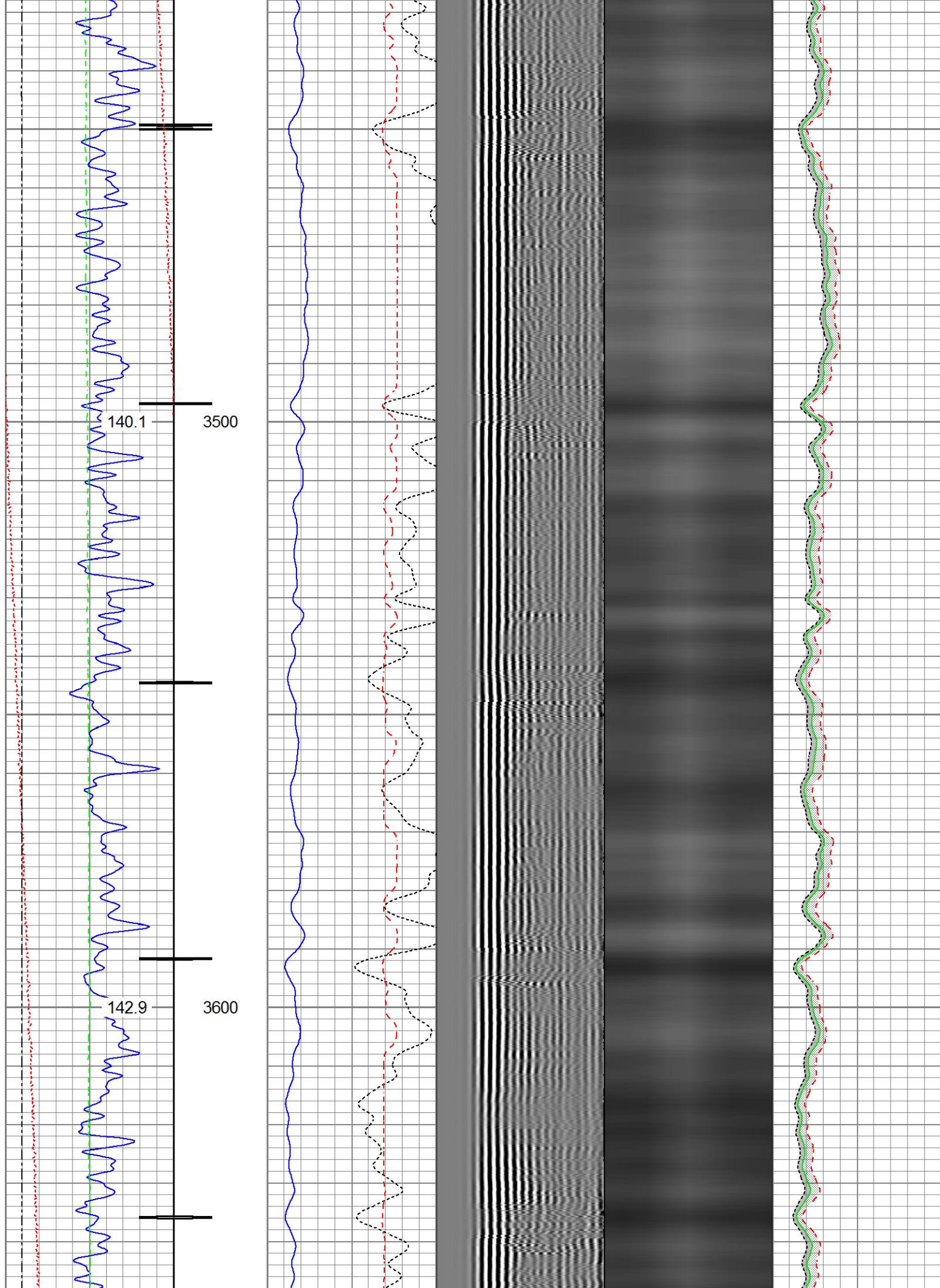


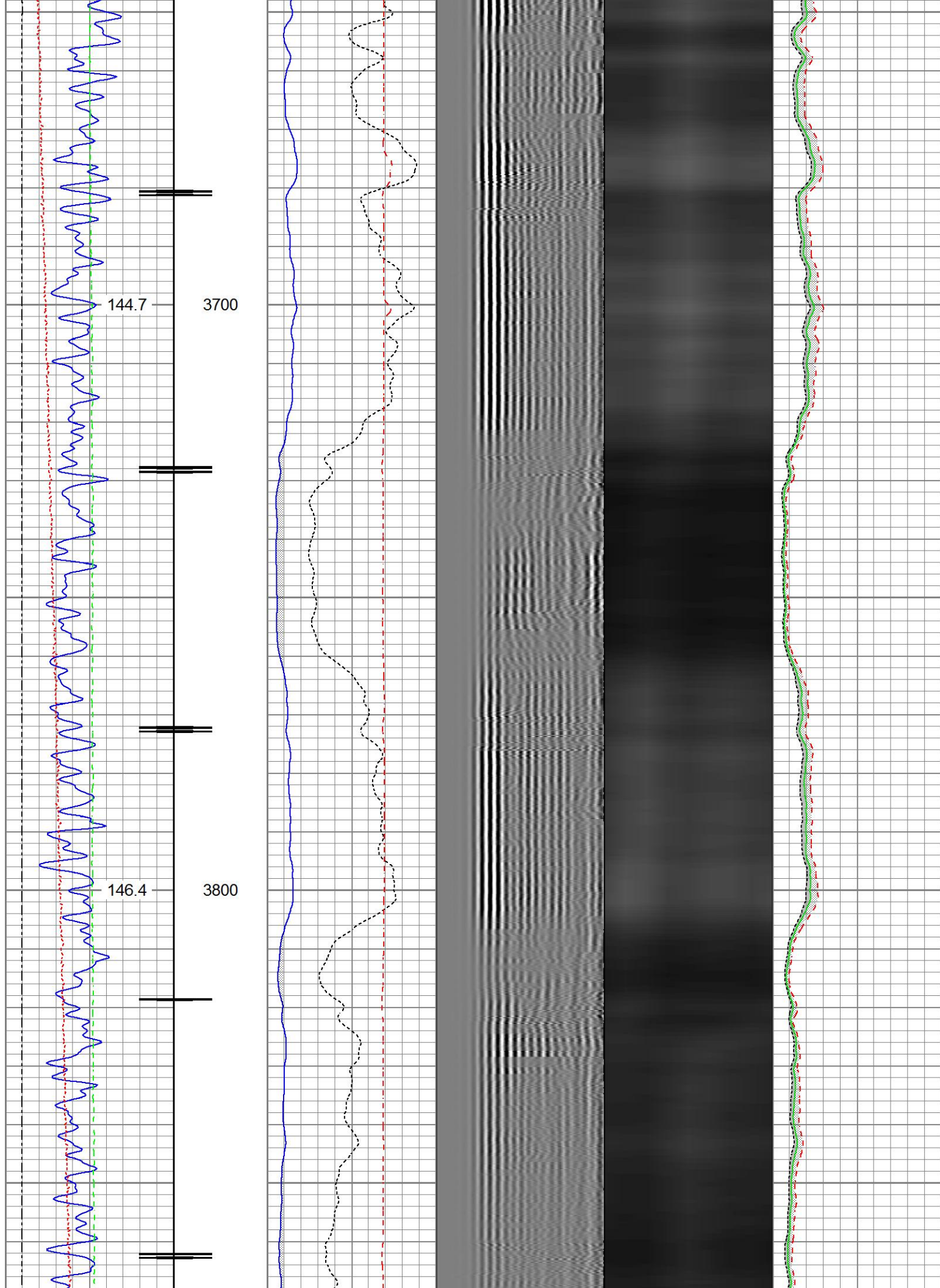


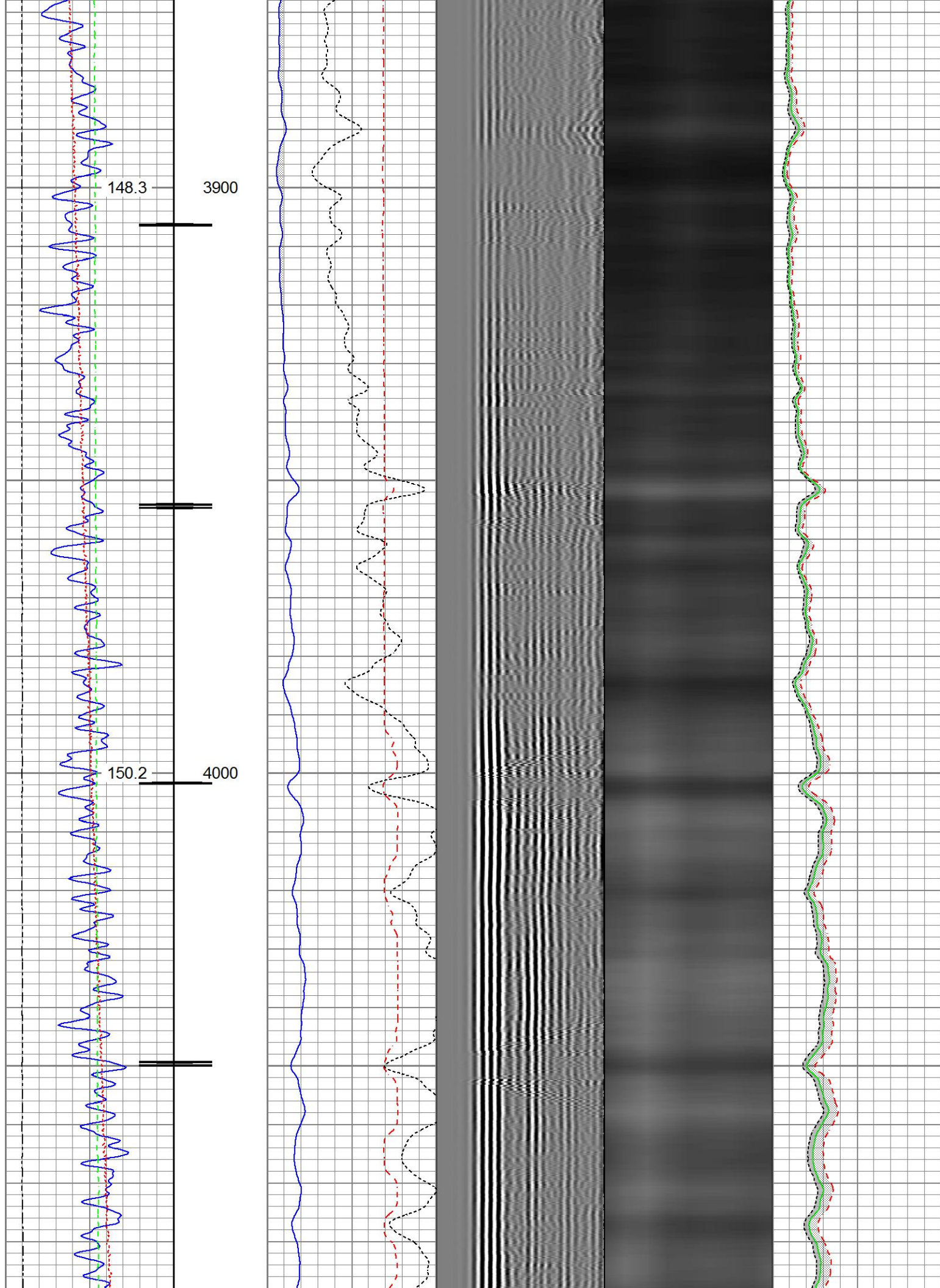


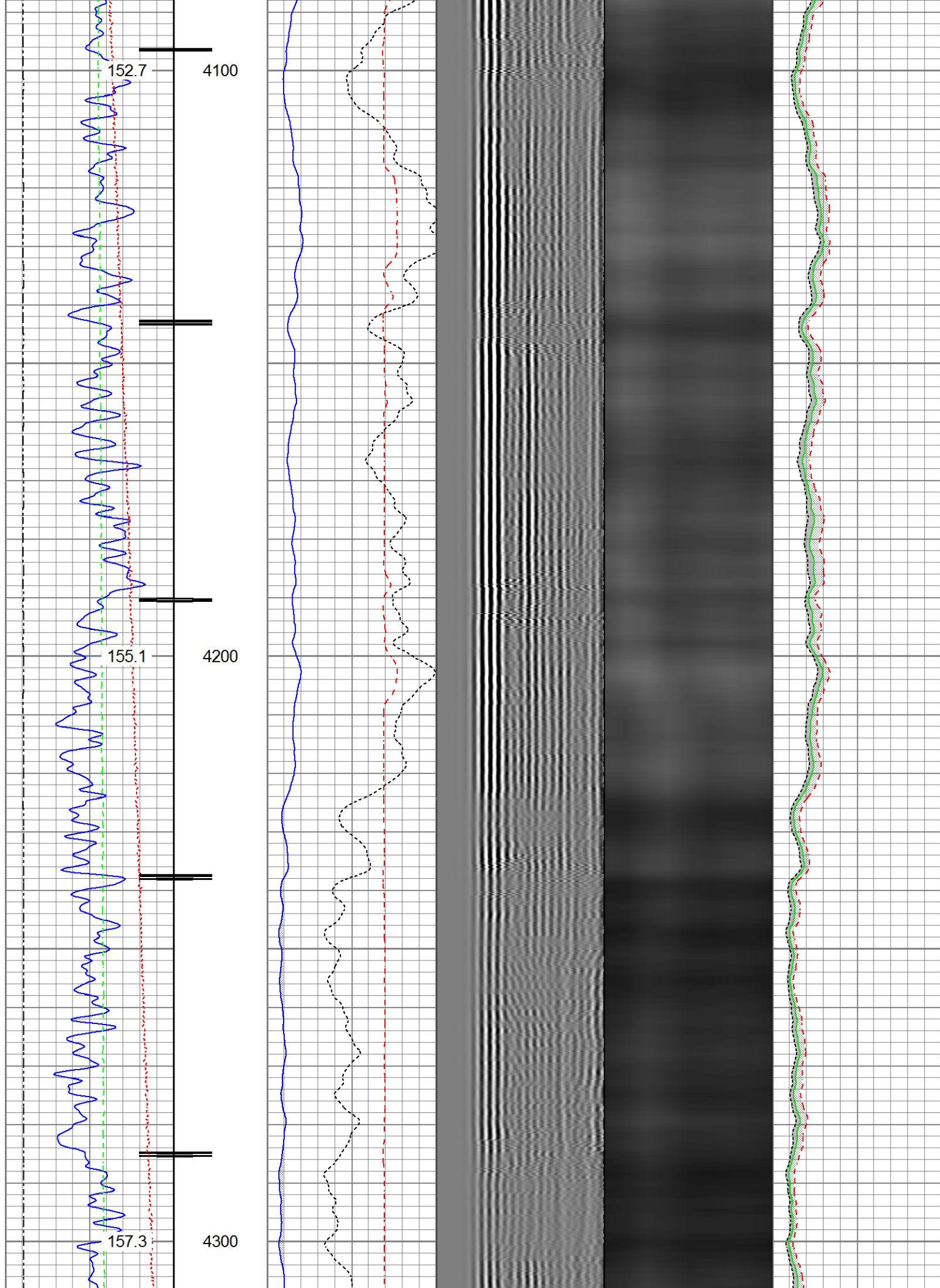


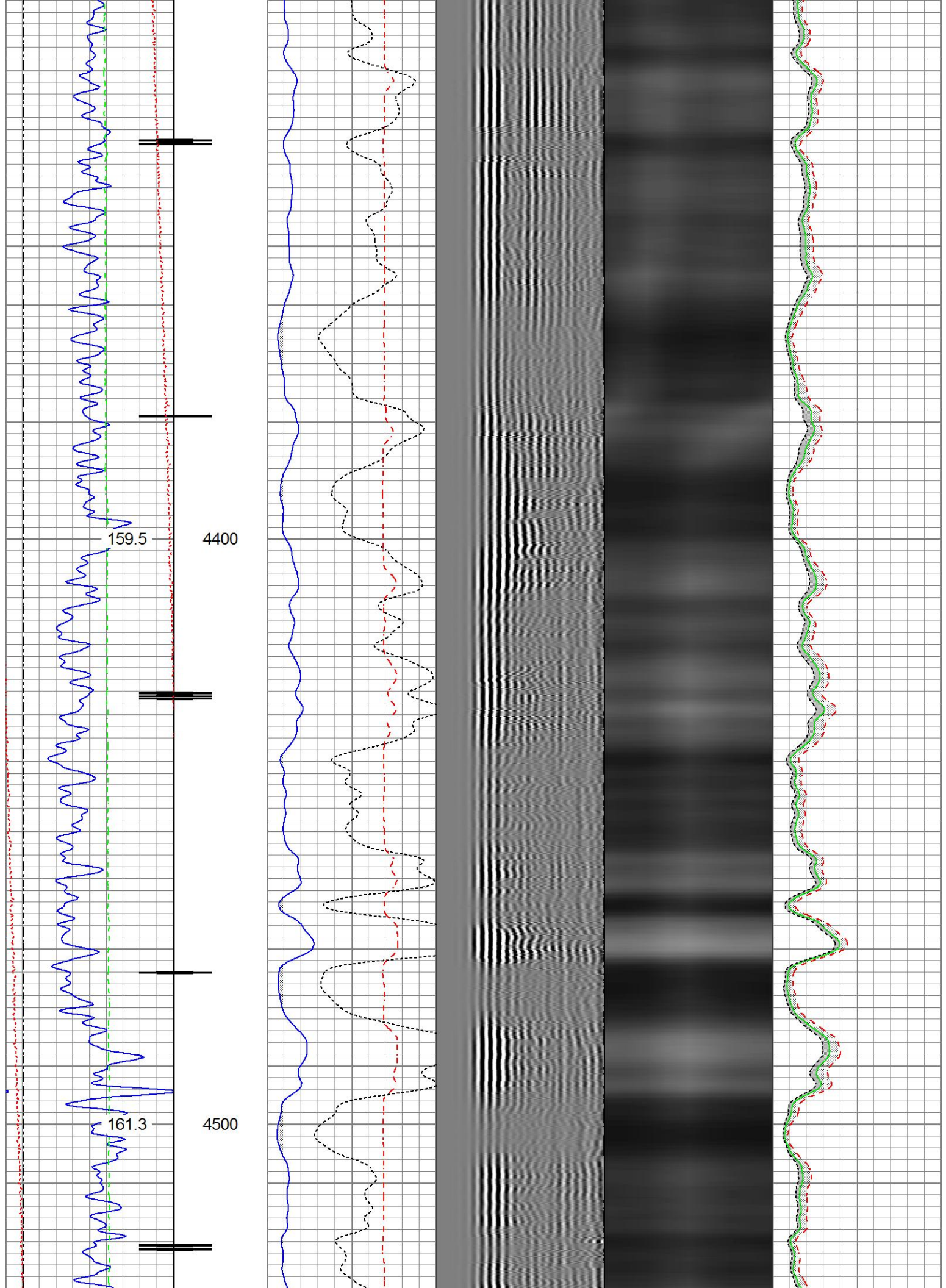


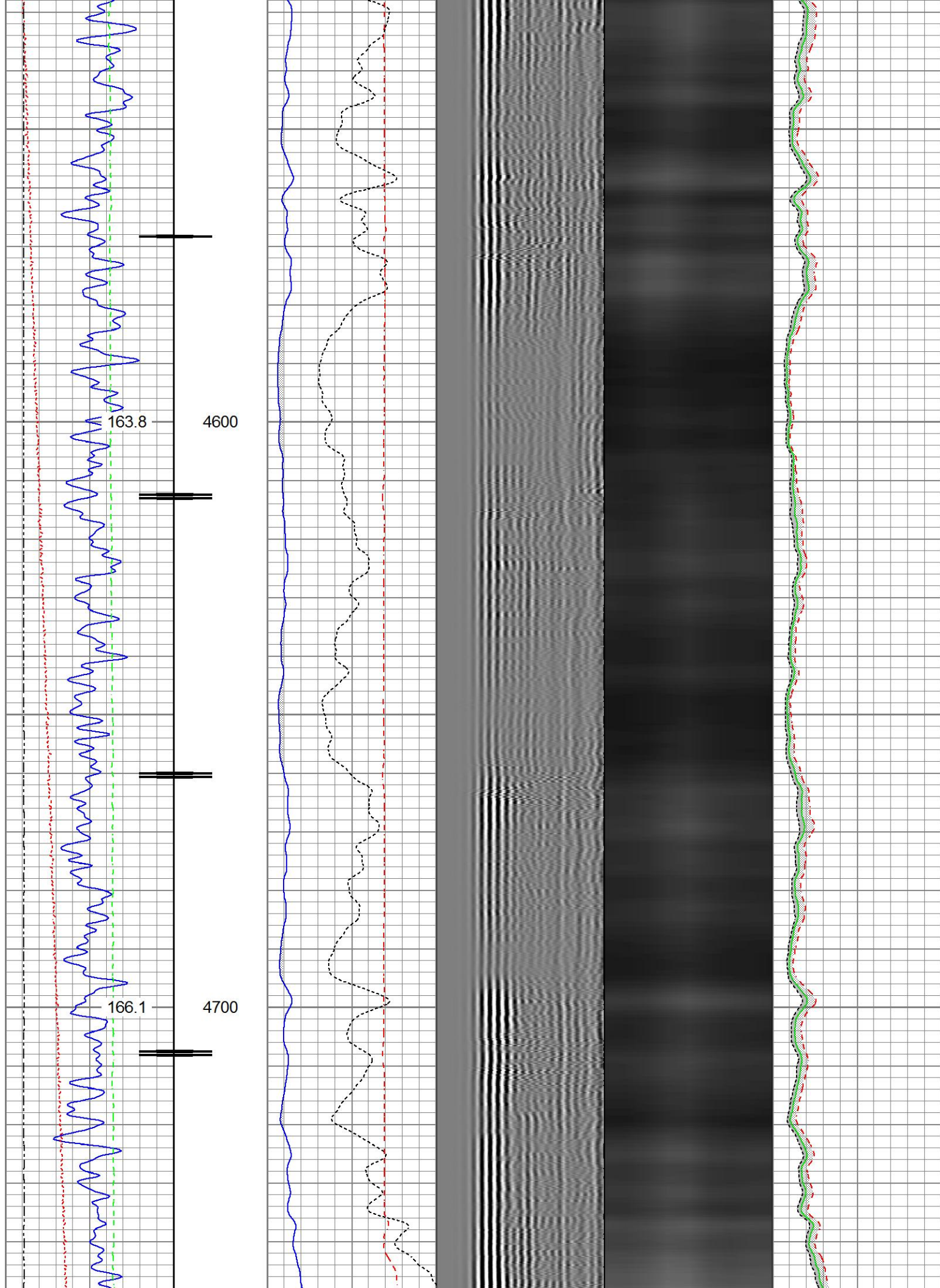


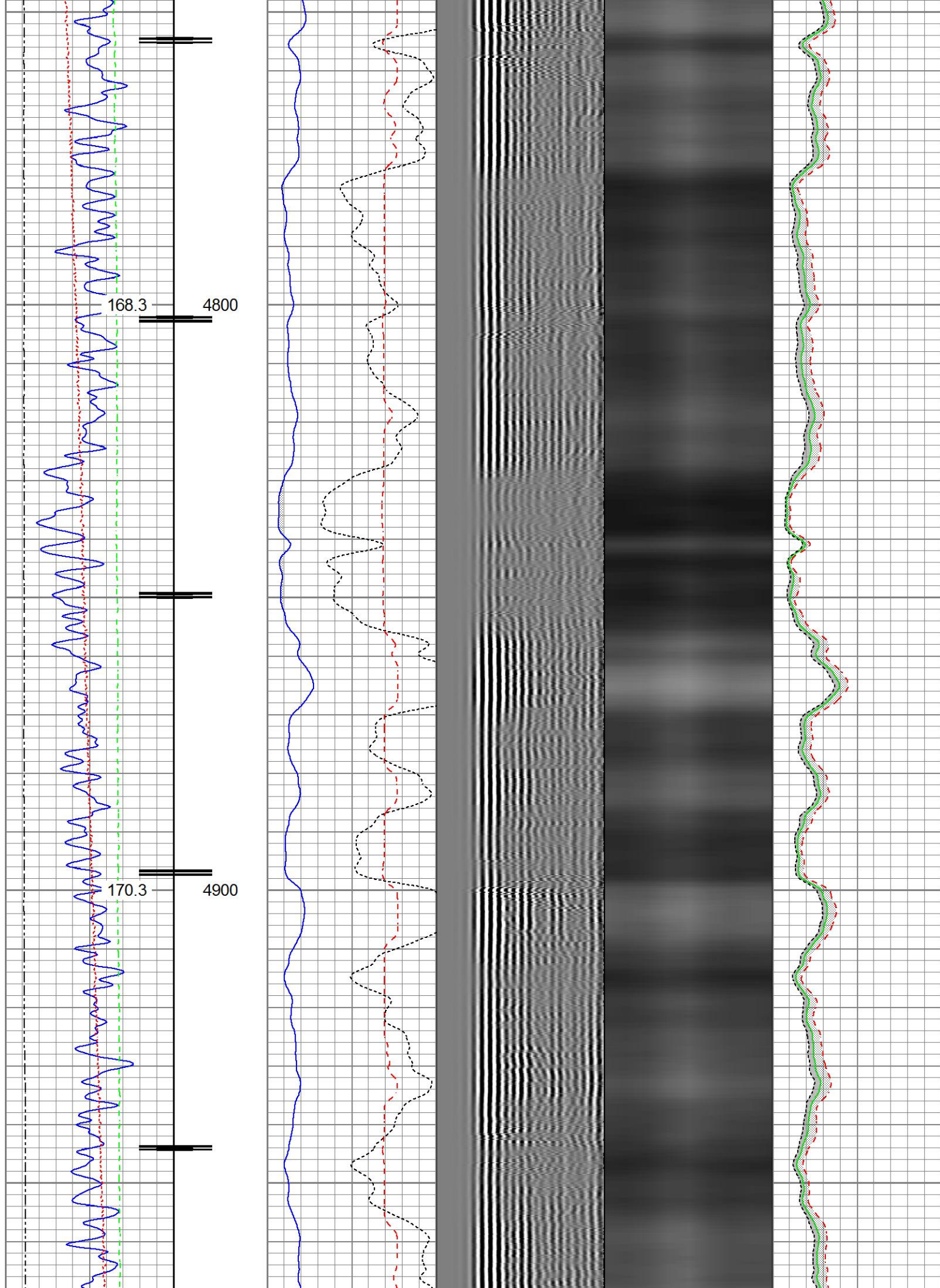


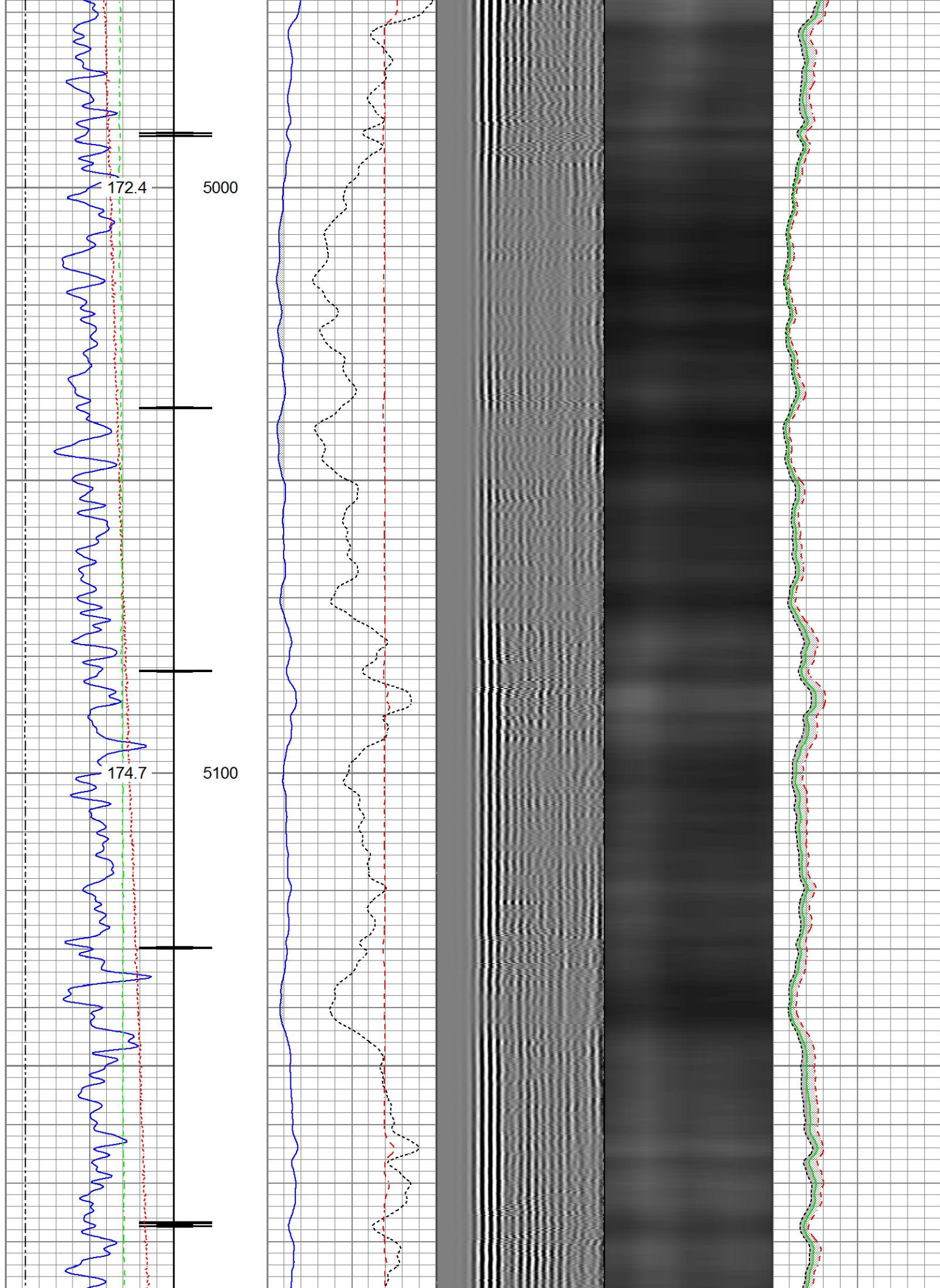


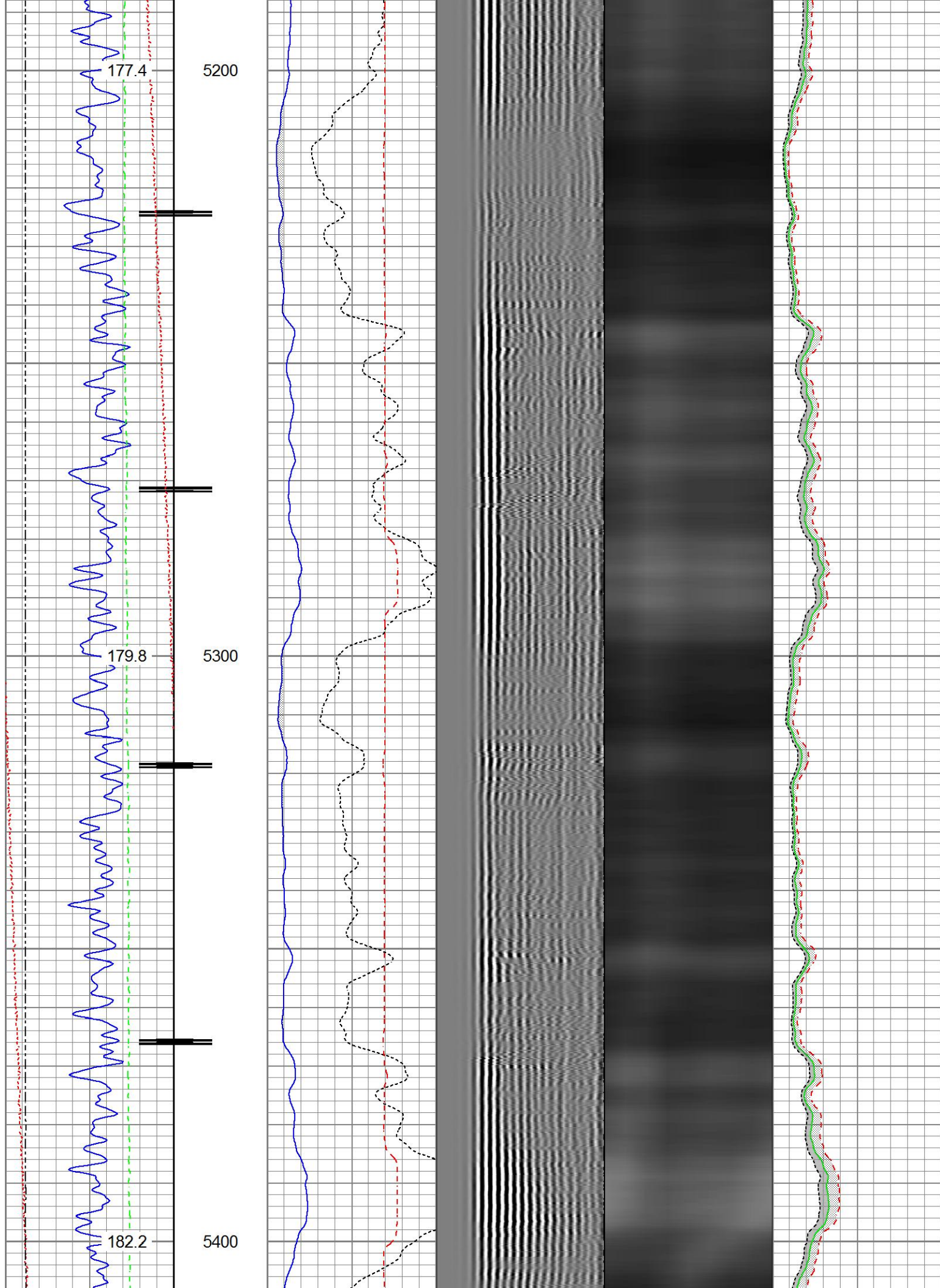


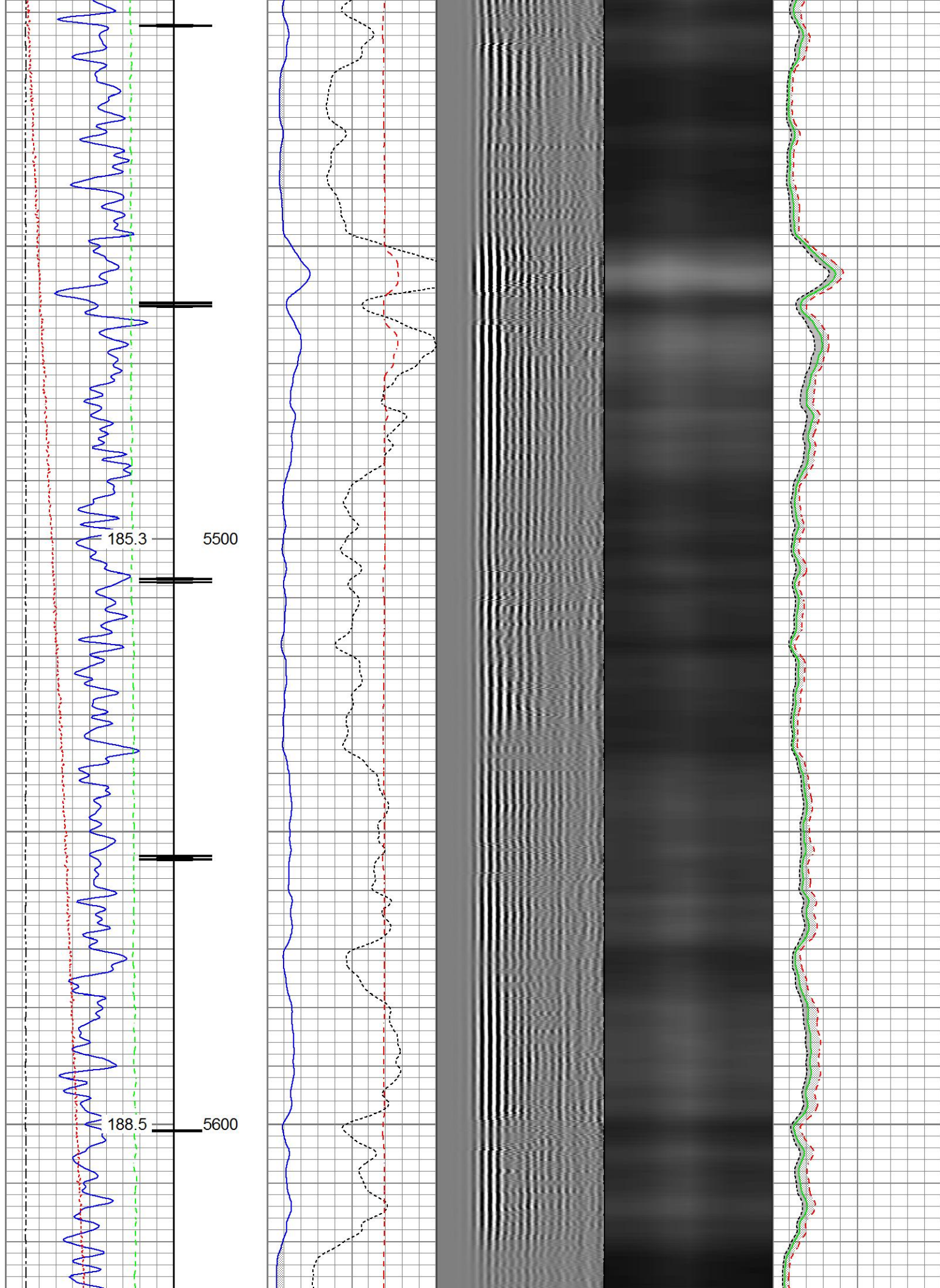


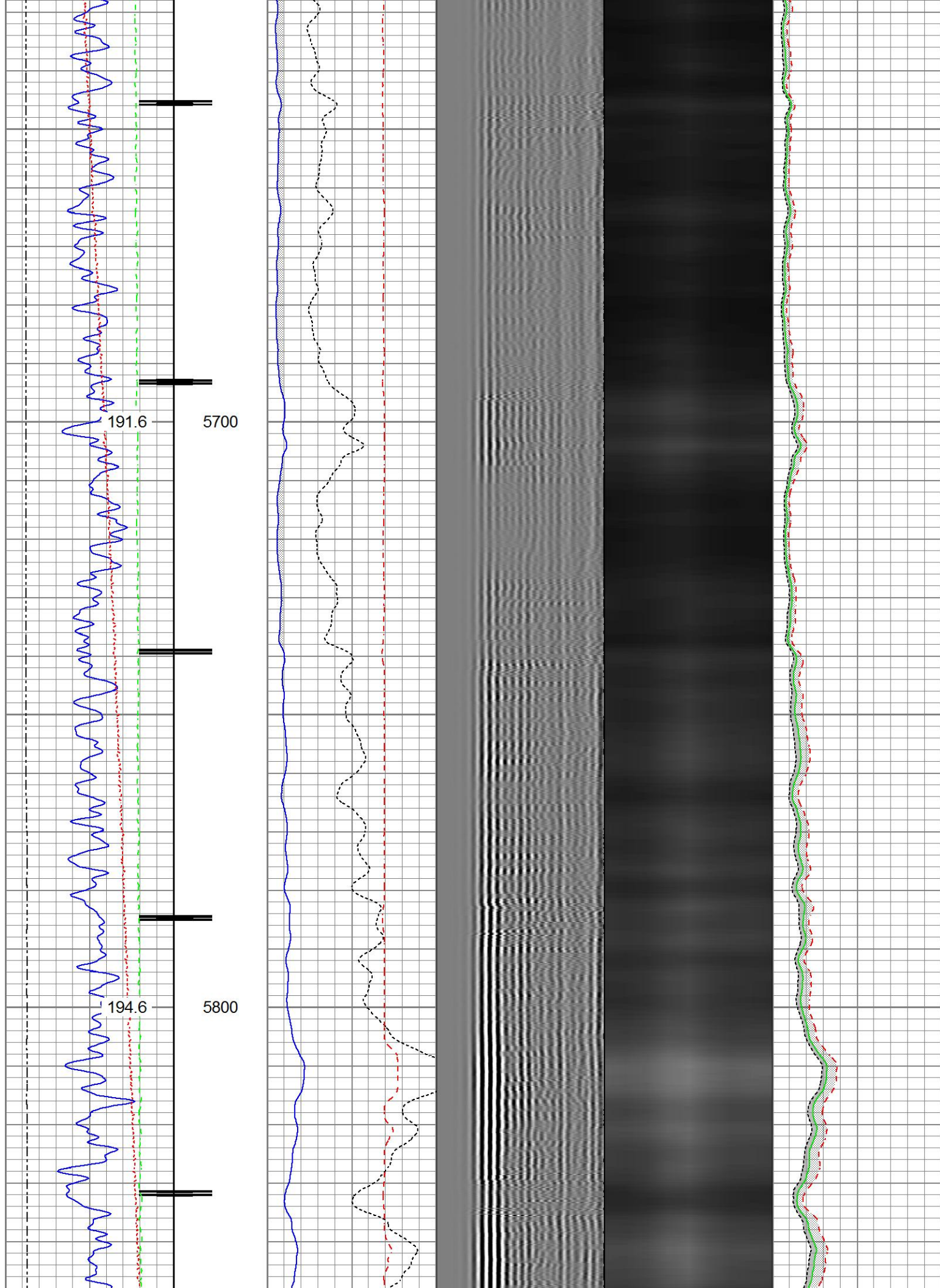


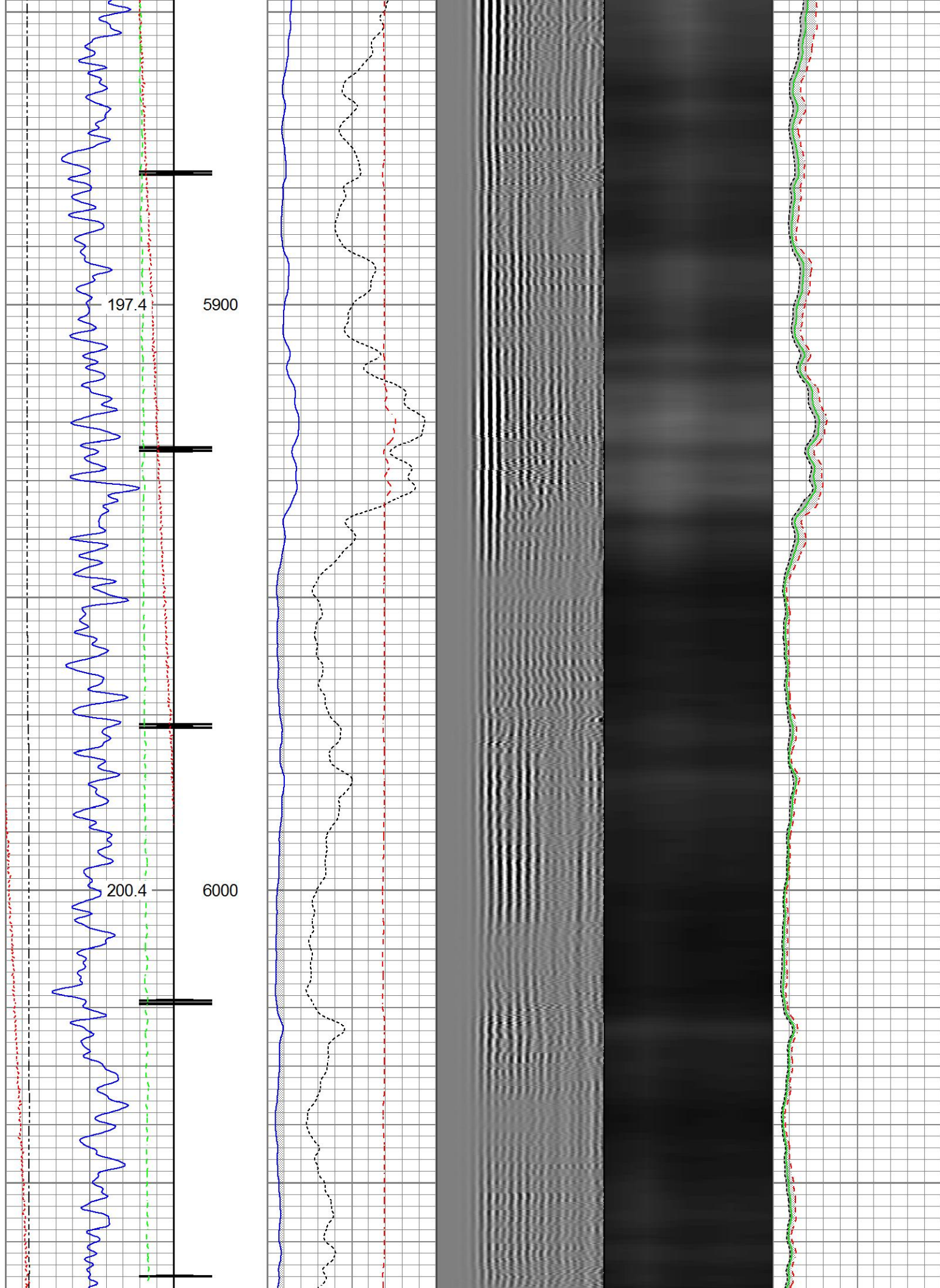


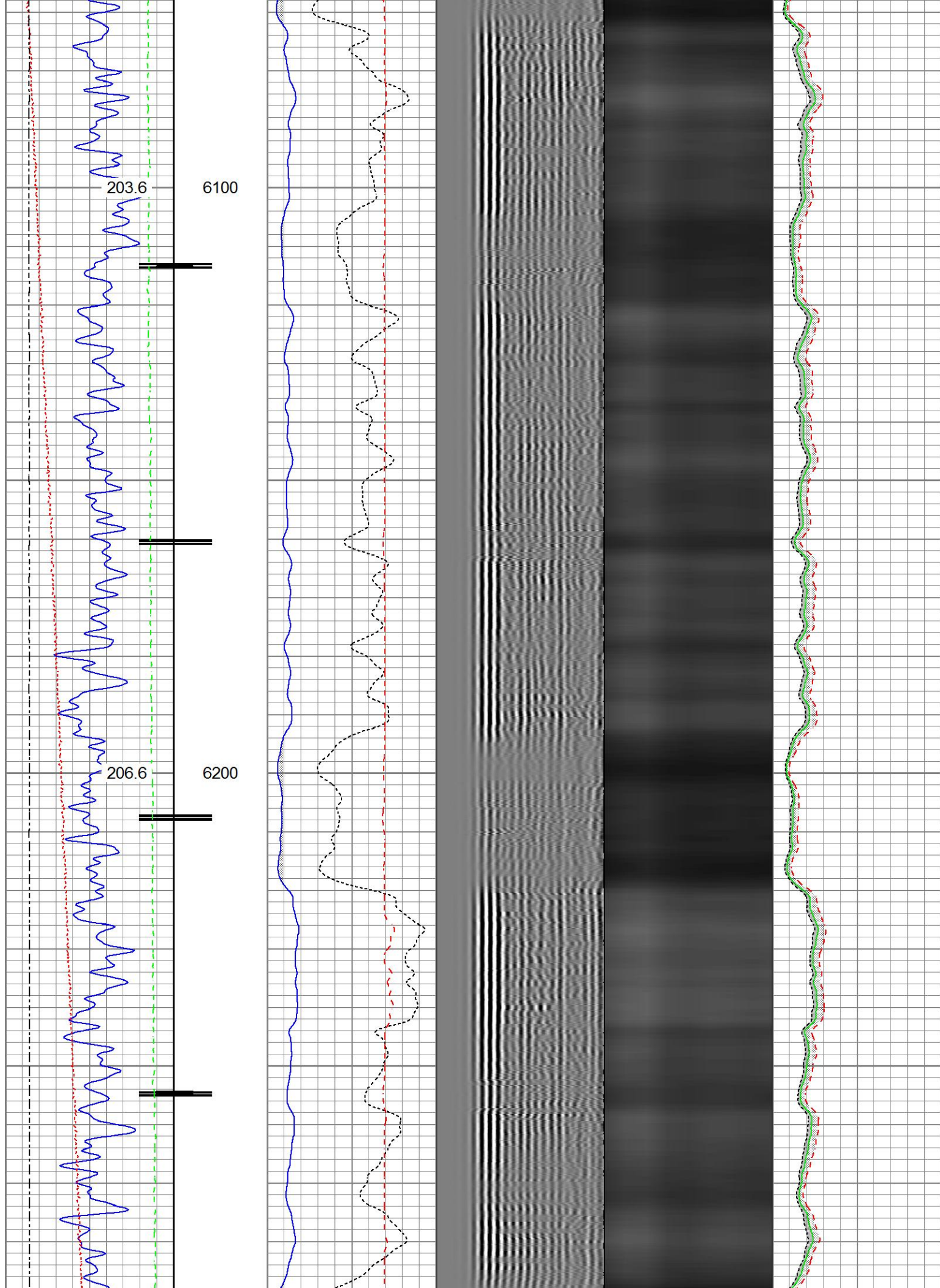


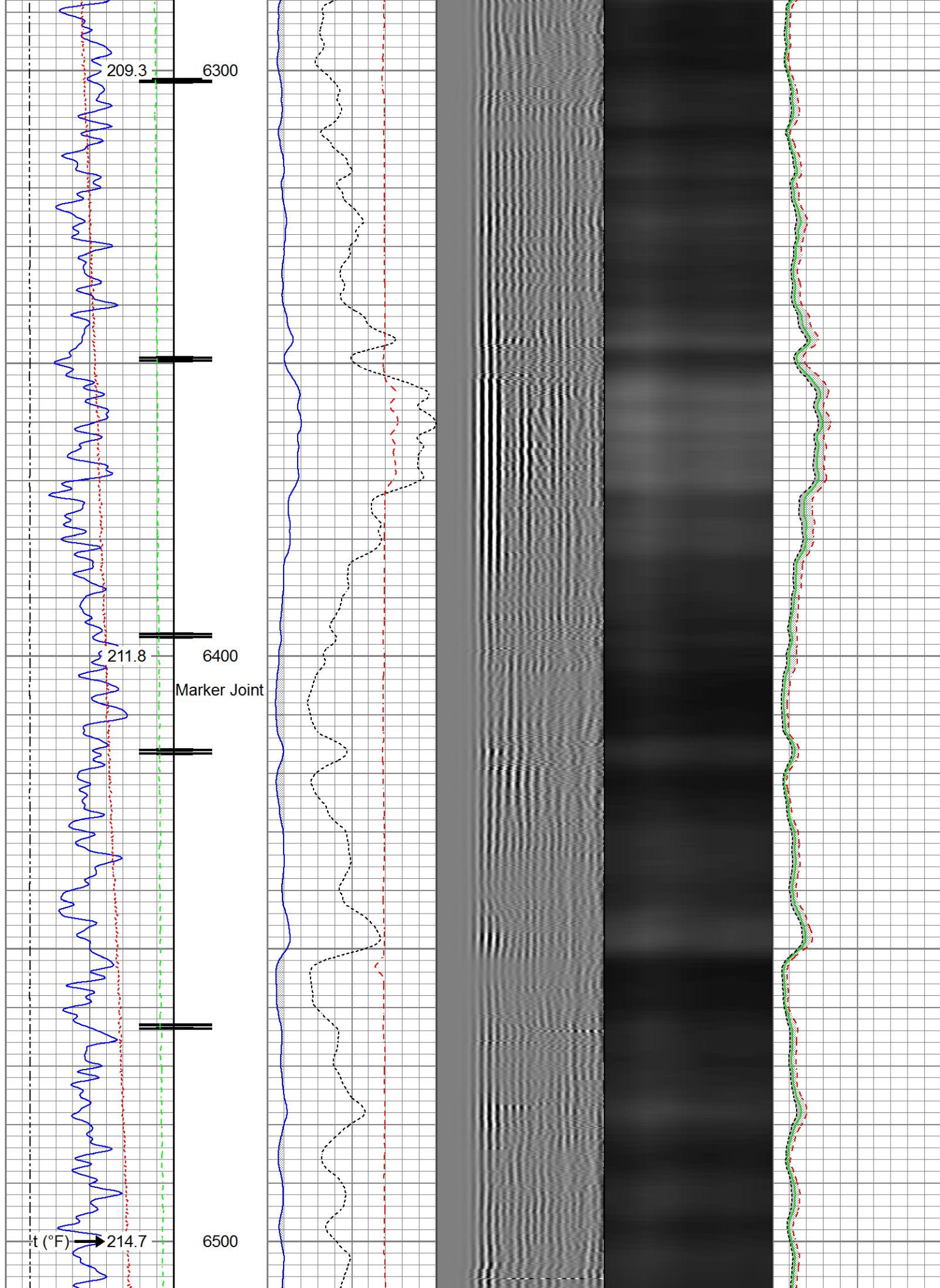


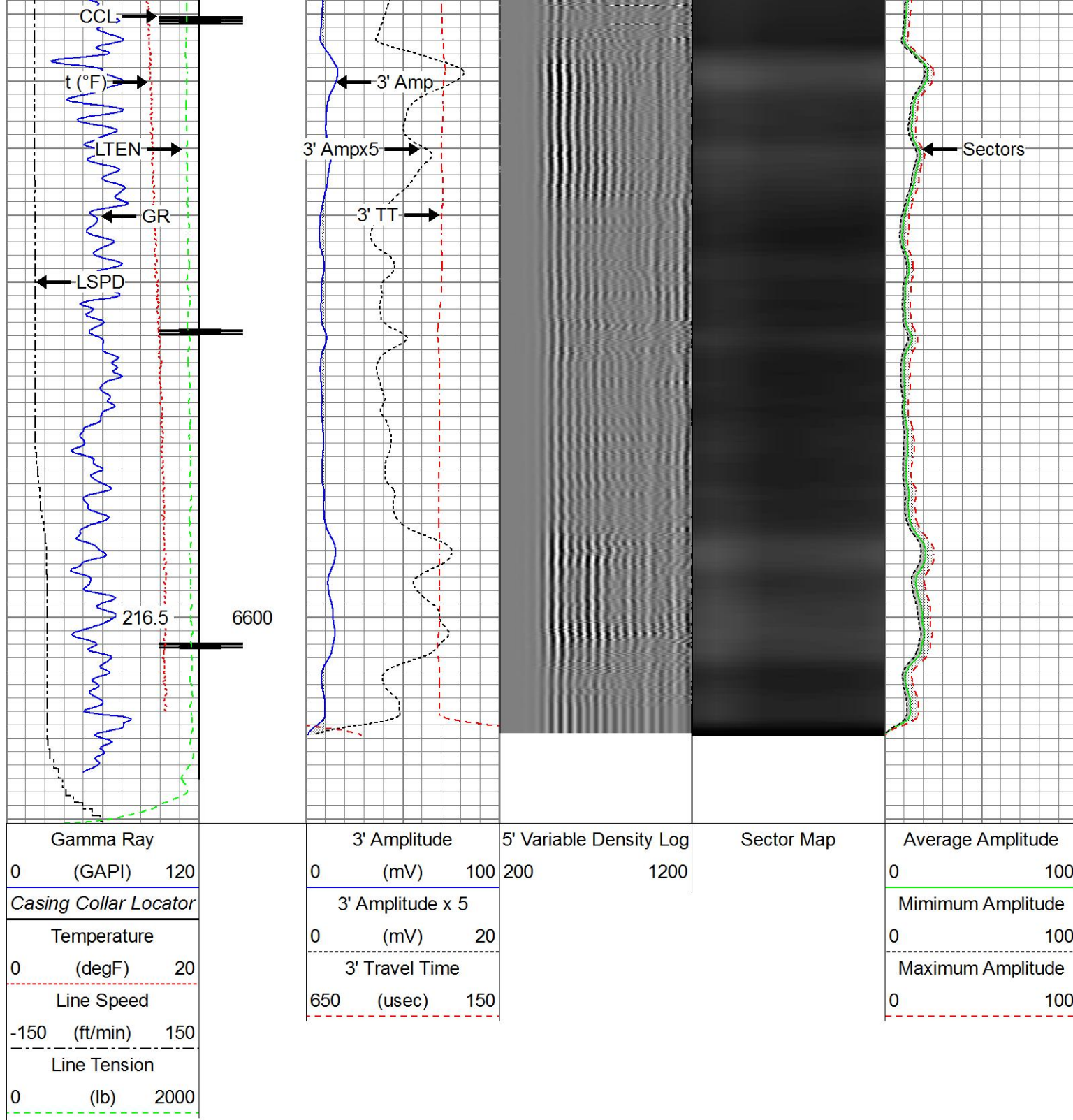








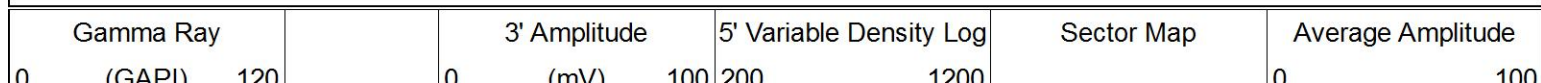


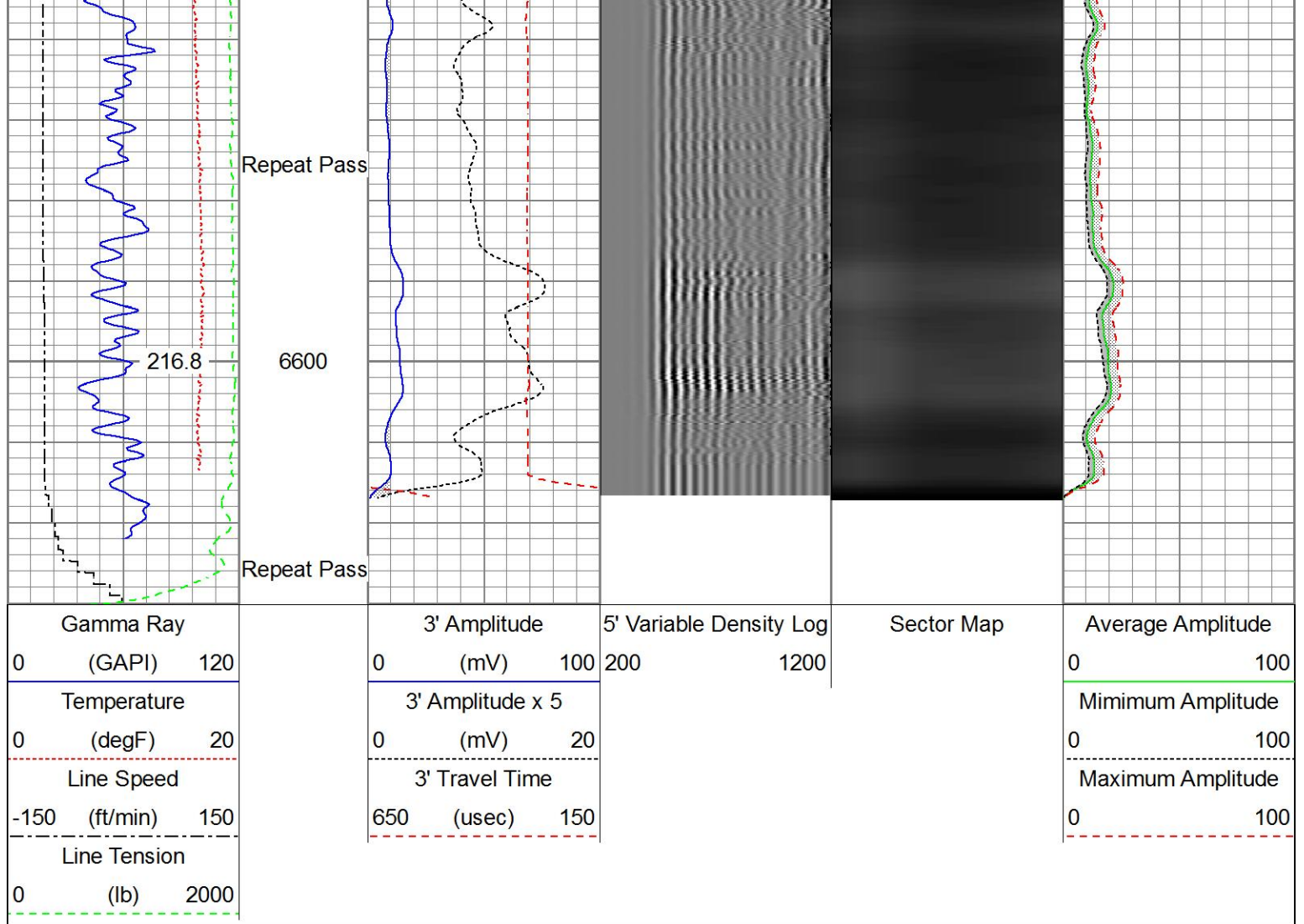


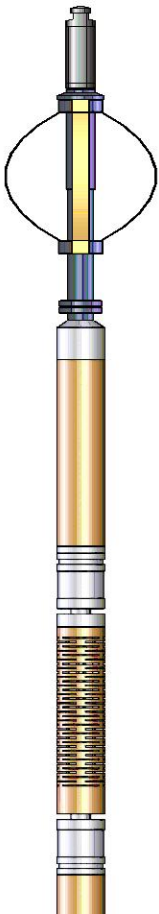
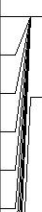
Repeat Pass

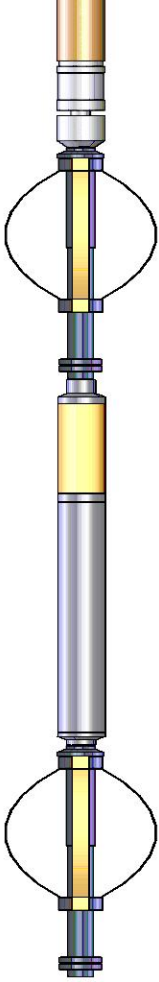
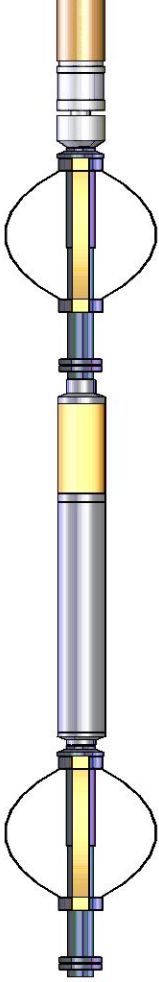
Recorded With 2000 PSI Surface Induced Pressure

Database File src energy_ag 32n-31c-l_rbl_10-31-17src energy_ag 32n-31c-l_rbl_10-31-17_emily.db
 Dataset Pathname Repeat.1
 Presentation Format ros_radii
 Dataset Creation Fri Nov 03 06:08:40 2017
 Charted by Depth in Feet scaled 1:240





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-EE2.88.275 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	2.75	20.00
			Probe_RADII-C-P_RBT_2750 (FW1302-009.19 Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	2.75	2.75	105.00
WVFS8	14.55					
WVFS7	14.55					
WVFS6	14.55					
WVFS5	14.55					
WVFS4	14.55					
WVFS3	14.55					

WVFS2	14.55		Probe_ELine_BowSpring_Centralizer-P Probe 2-3/4" Electric Inline Bowspring Centralizer	EE2.88,275	2.75	20.00
WVFS1	14.55					
WVFCAL	14.55					
WVF3FT	14.55					
WVF5FT	13.55					
HeadVolt	10.30					
DCCL	6.51		Probe_GR_CCL-P_CGR_2750_S (FW1214.543) Probe 2-3/4" Digital CCL / Gamma Ray Combined	214.543	2.75	55.00
CCL	6.51					
GR	5.30					
			Probe_ELine_BowSpring_Centralizer-P Probe 2-3/4" Electric Inline Bowspring Centralizer	EE2.88,275	2.75	20.00
Dataset: SRC Energy_Ag 32N-31C-L_RBL_10-31-17_emily.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 32n-31c-l_rbl_10-31-17\src energy_ag 32n-31c-l_rbl_10-31-17_e		
Dataset Pathname	Main.2		
Dataset Creation	Fri Nov 03 06:00:02 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	0.552	0.800	71.921	129.378	0.569
CAL	0.743	0.748				
5'	0.002	0.520	0.800	71.921	137.252	0.562
SUM						
S1	0.001	0.542	0.000	100.000	184.683	-0.141
S2	0.002	0.568	0.000	100.000	176.847	-0.383
S3	0.002	0.604	0.000	100.000	166.063	-0.325
S4	0.001	0.610	0.000	100.000	164.223	-0.193
S5	0.002	0.582	0.000	100.000	172.604	-0.418
S6	0.001	0.555	0.000	100.000	180.521	-0.185
S7	0.002	0.542	0.000	100.000	185.254	-0.455
S8	0.001	0.542	0.000	100.000	184.836	-0.129

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	



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