



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC		Well Federal WMC 431-20		Field Rulison		County Garfield		State Colorado	
Location:		SEC 17 TWP 7S RGE 93W		API # : 05-045-24499		Other Services			
Permanent Datum		Ground Level		Elevation		8869		Elevation	
Log Measured From		Kelly Bushing						K.B. 8899 FT	
Drilling Measured From		Kelly Bushing						D.F. 8898 FT	
								G.L. 8869 FT	
Date		04-JAN-2023							
Run Number		One							
Depth Driller		11015 FT							
Depth Logger		10904 FT							
Bottom Logged Interval		10896 FT							
Top Log Interval		Surface							
Open Hole Size		8.75"							
Type Fluid		Water							
Density / Viscosity		8.34 Lb/Gal							
Max. Recorded Temp.		252°F							
Estimated Cement Top		See Log							
Time Well Ready		ROA							
Time Logger on Bottom		10:00							
Equipment Number		8045							
Location		Grand Junction							
Recorded By		P. Edwards							
Witnessed By		D. Welsh							
Borehole Record				Tubing Record					
Run Number		Bit From To		Size		Weight		From To	
Casing Record		Size		Wgt/Ft		Top		Bottom	
Surface String		9-5/8"		36		Surface		1132 FT	
Prot. String									
Production String		4-1/2"		11.6		Surface		11005 FT	
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 is correlated to 30' K.B.
Marker joint logged @ 6246 FT - 6256 FT
Log ran with 0 PSI at surface

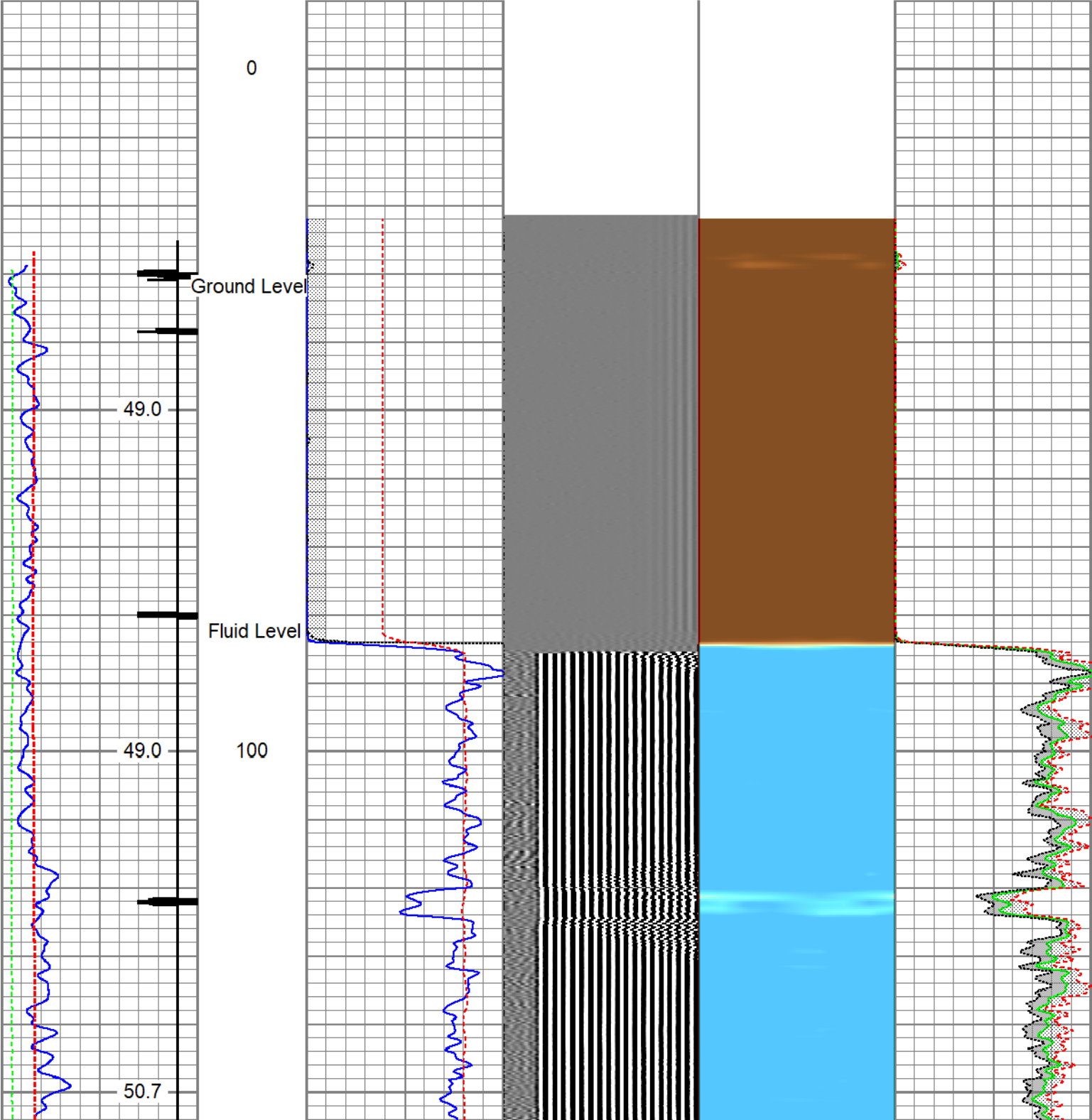
Thank you for choosing The Wireline Group!

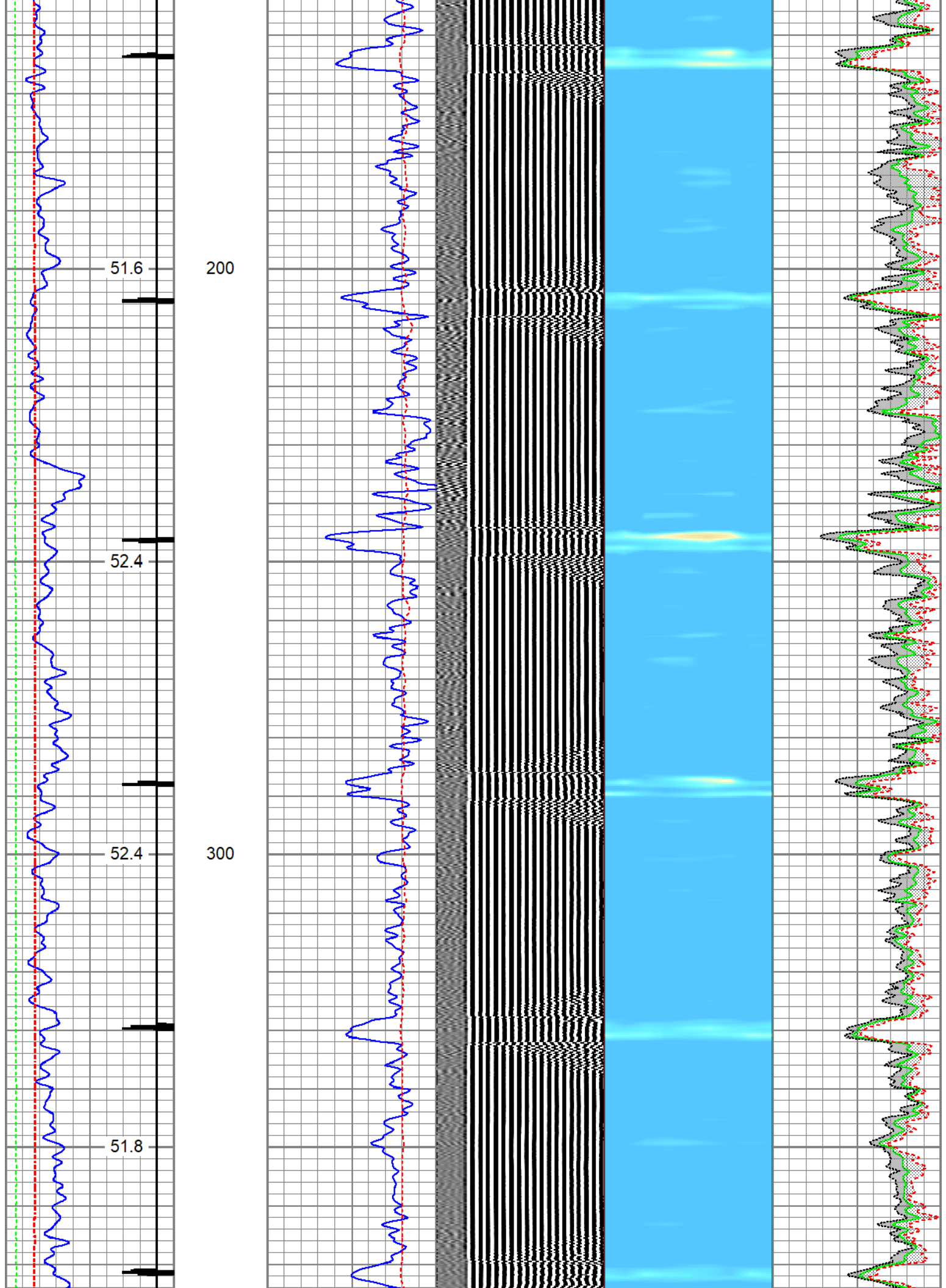


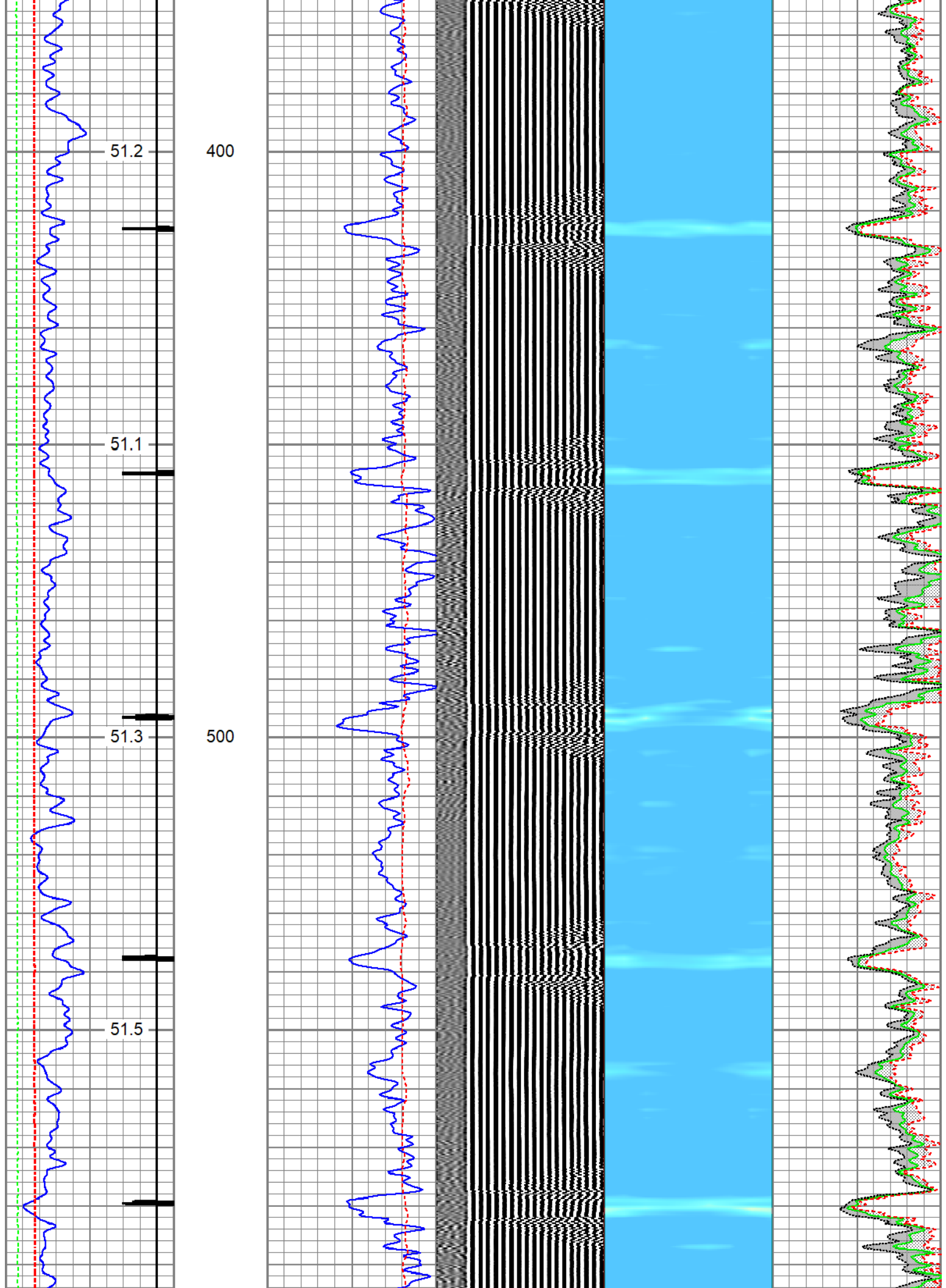
Main Pass 5" = 100'

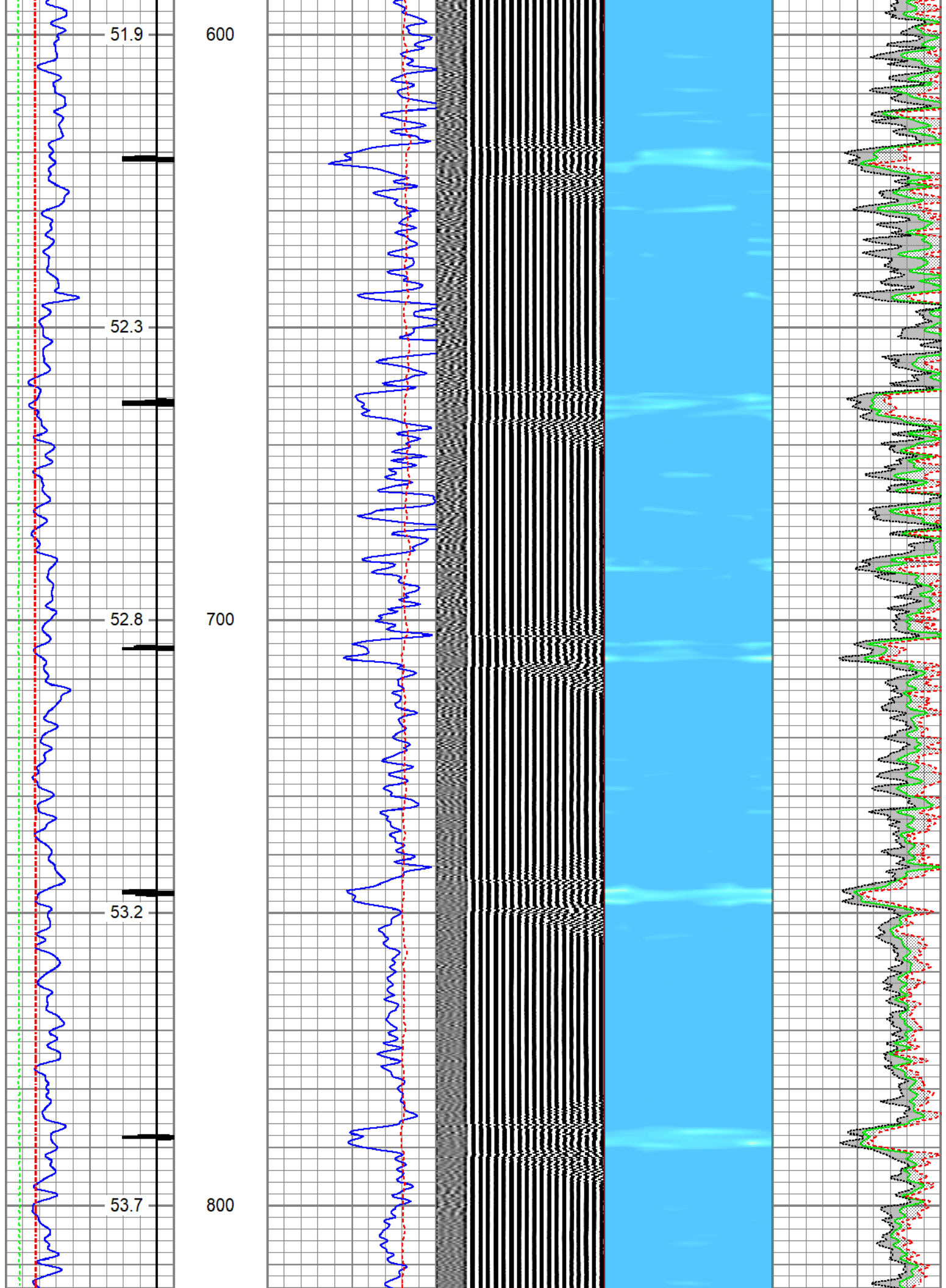
Database File tep_wmc fed 431-20_rcbl_1-4-2023.db
Dataset Pathname main
Presentation Format twgrcbl
Dataset Creation Wed Jan 04 09:58:37 2023
Charted by Depth in Feet scaled 1:240

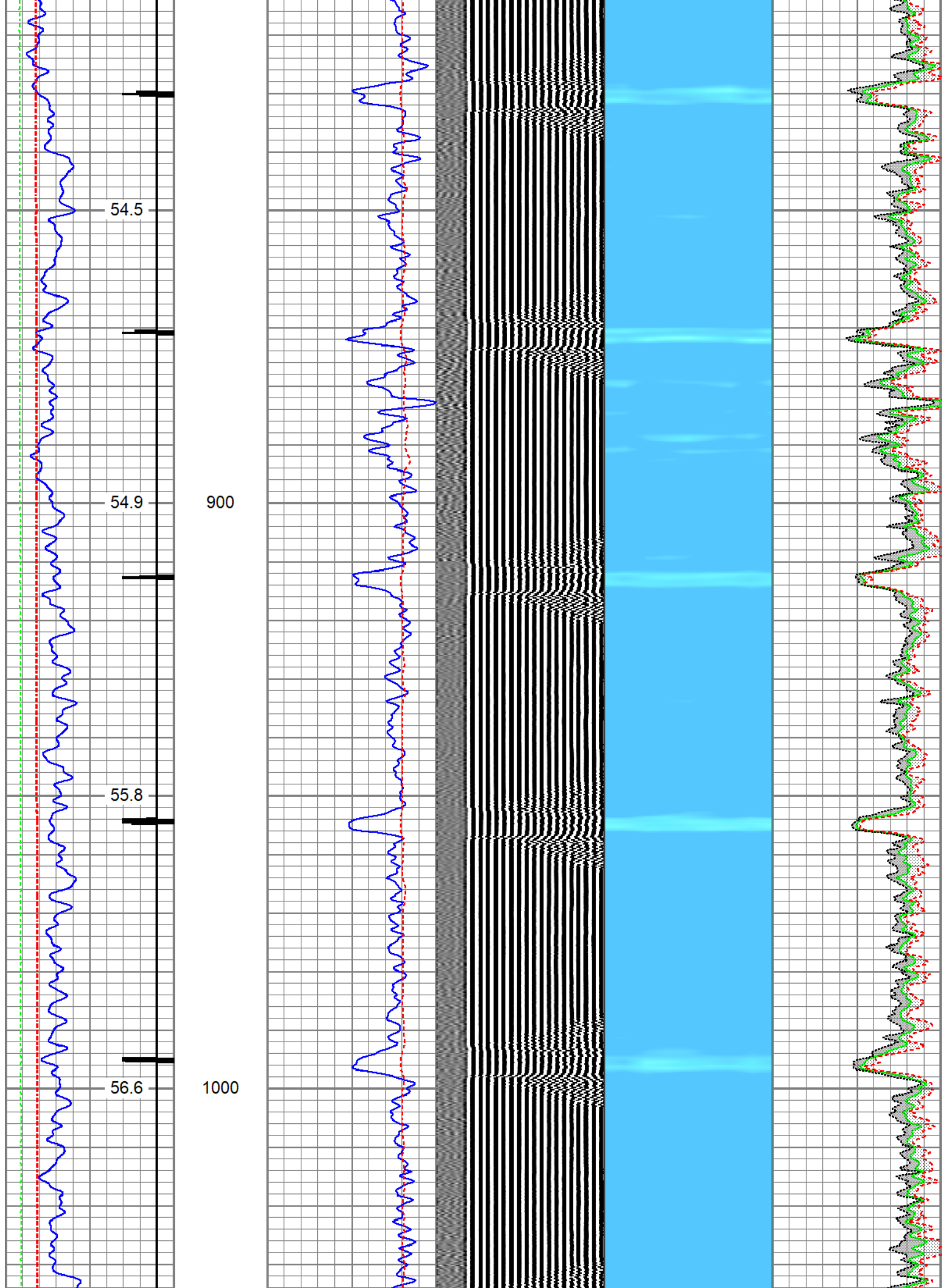
Gamma Ray			3' Amplitude			5' Variable Density Log			Sector Map			Average Amplitude		
0	(GAPI)	200	0	(mV)	100	200	(usec)	1200				0		120
Line Tension			3' Amplitude x 5						Minimum Amplitude					
0	(lb)	4000	0	(mV)	20				0		120			
CCL			3' Travel Time						Maximum Amplitude					
-9		1												
Temp (degF)			650 (usec)						0		120			
0		300												

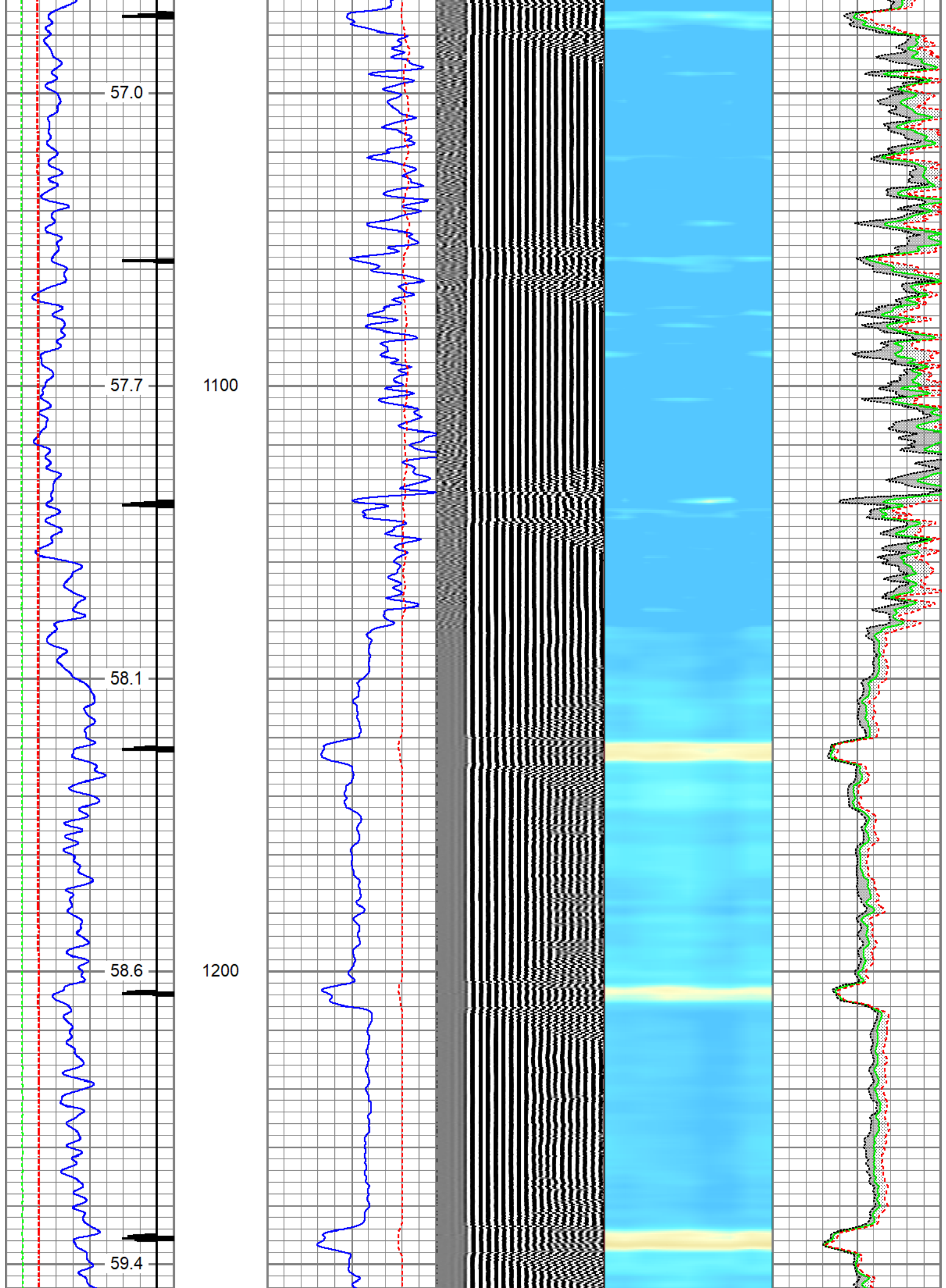


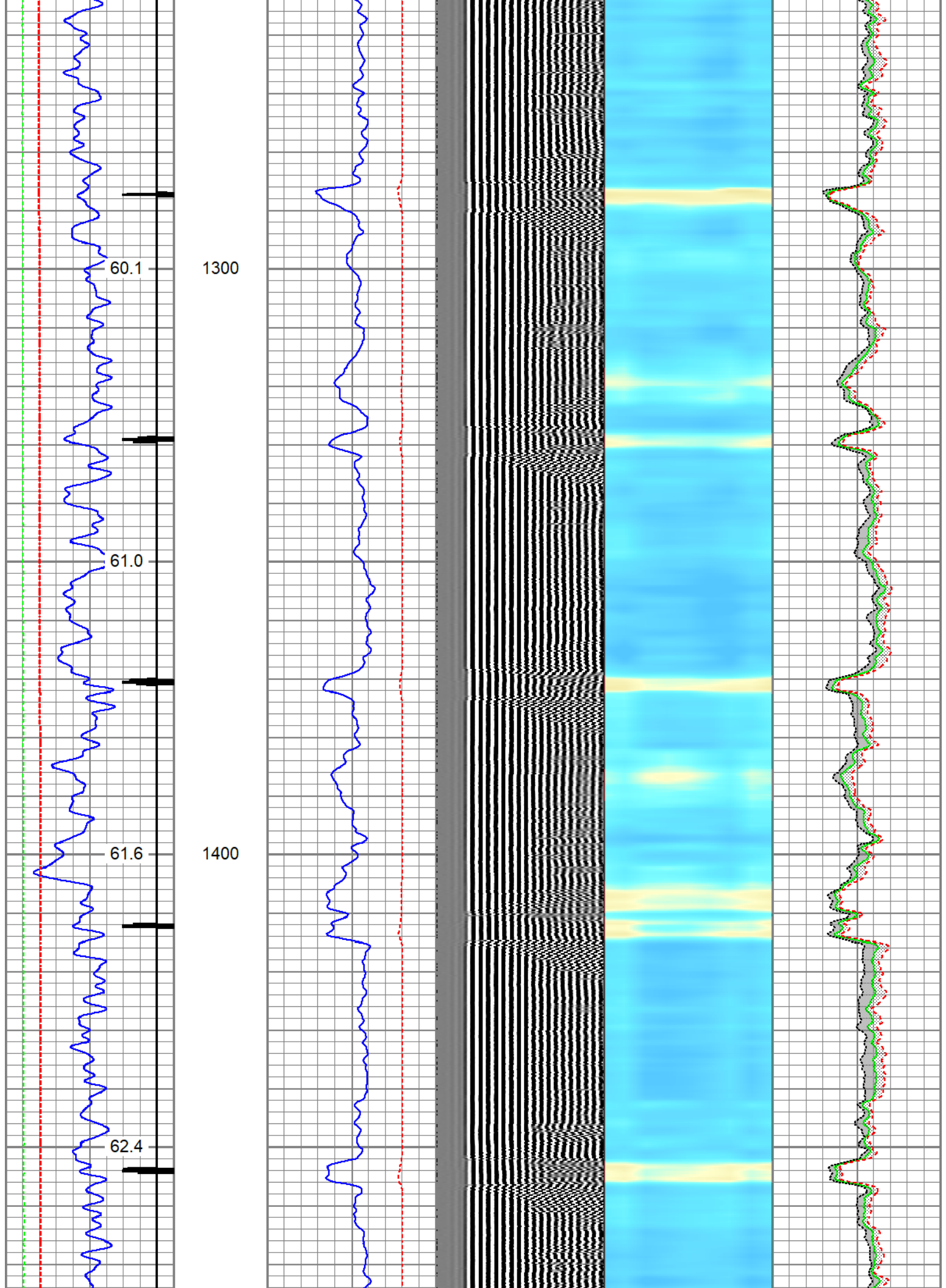


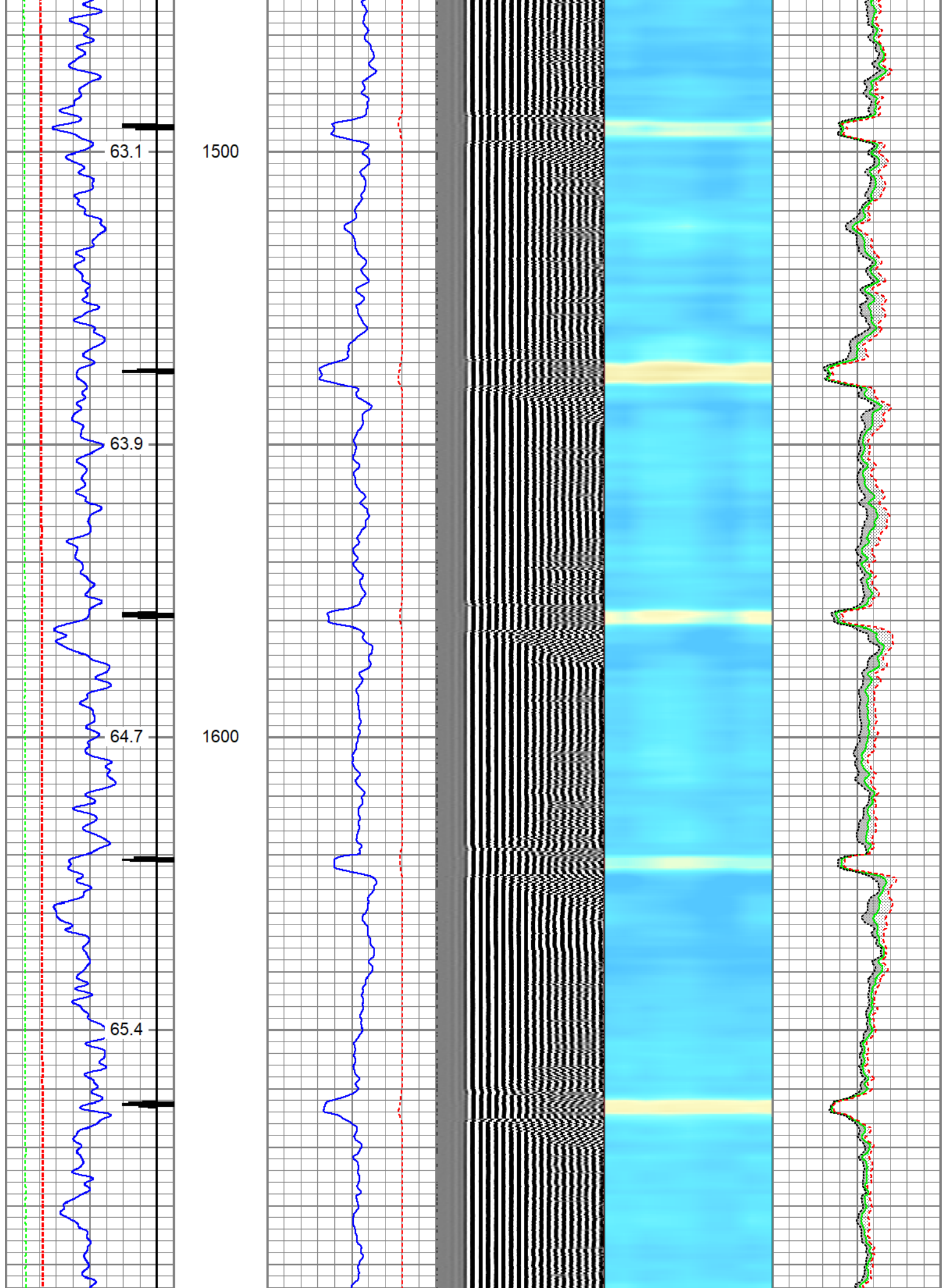


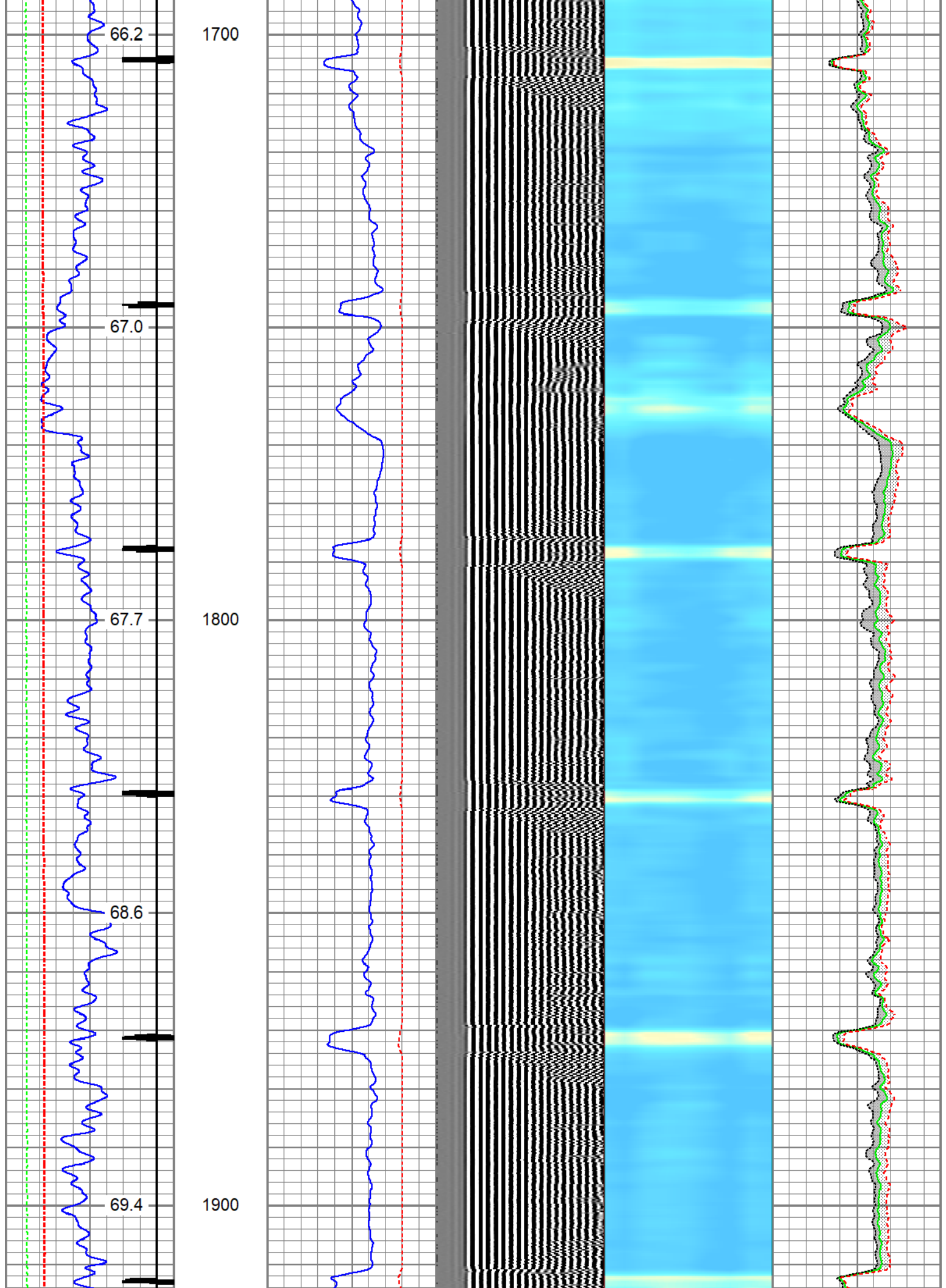


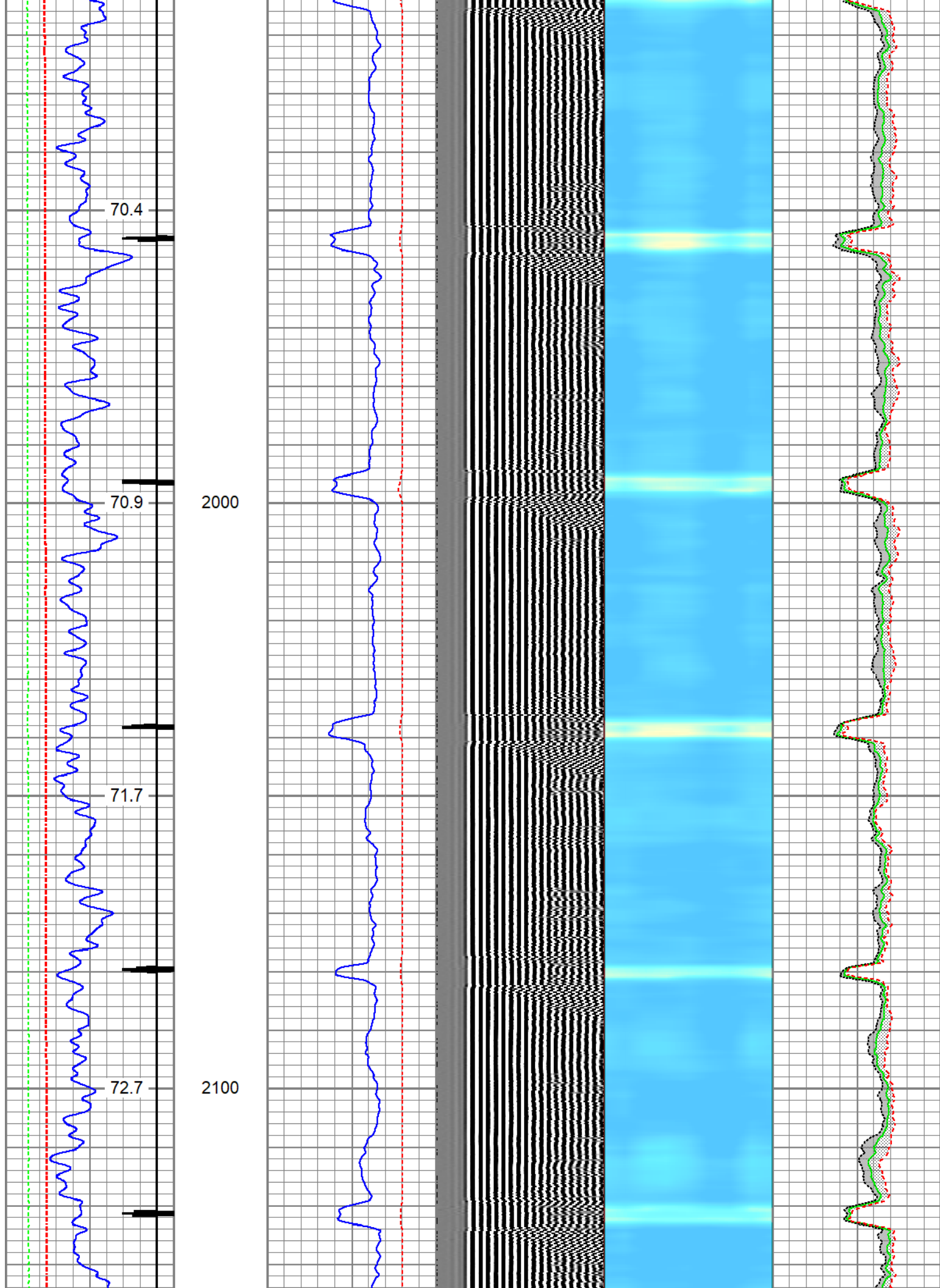


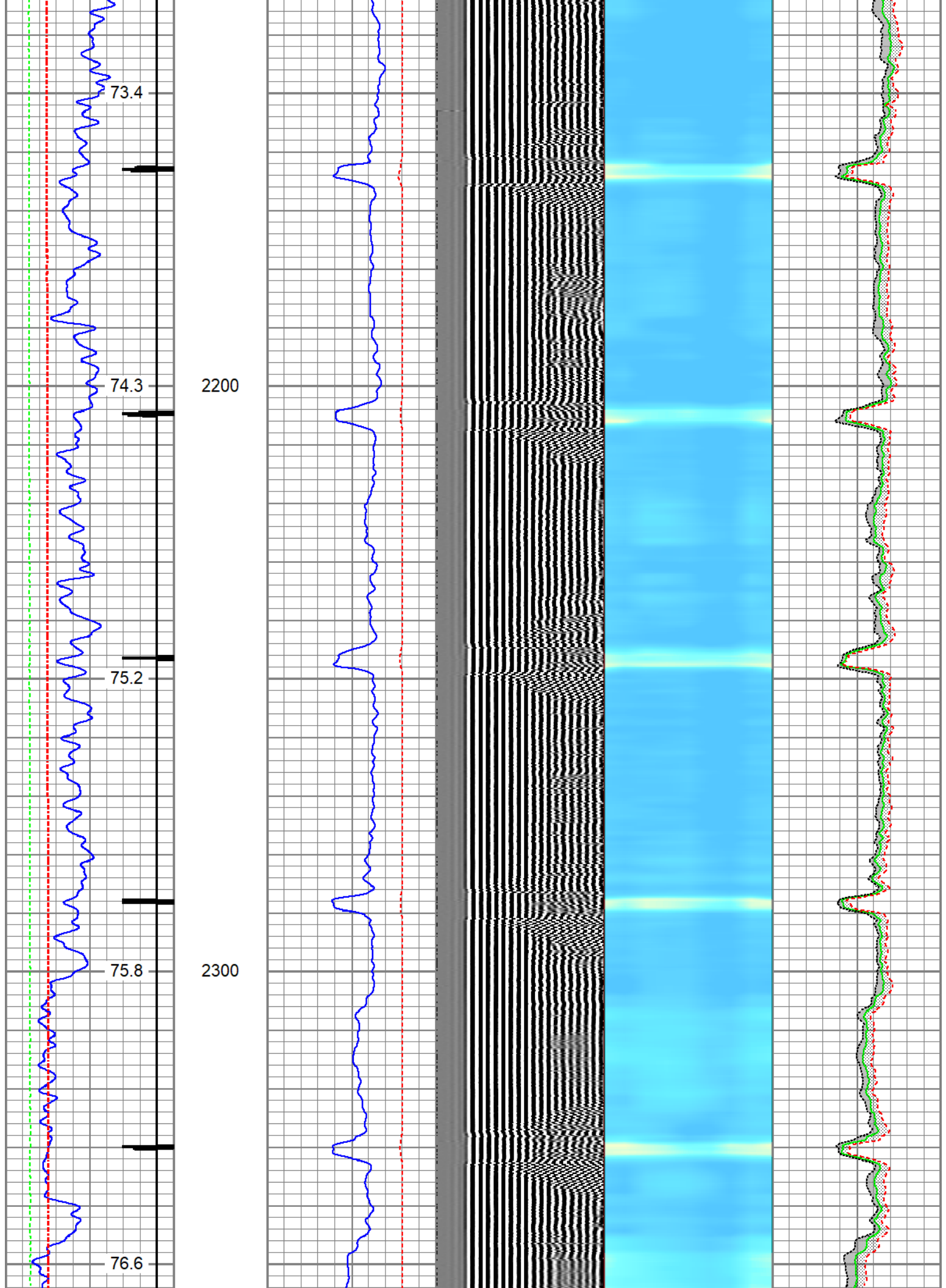


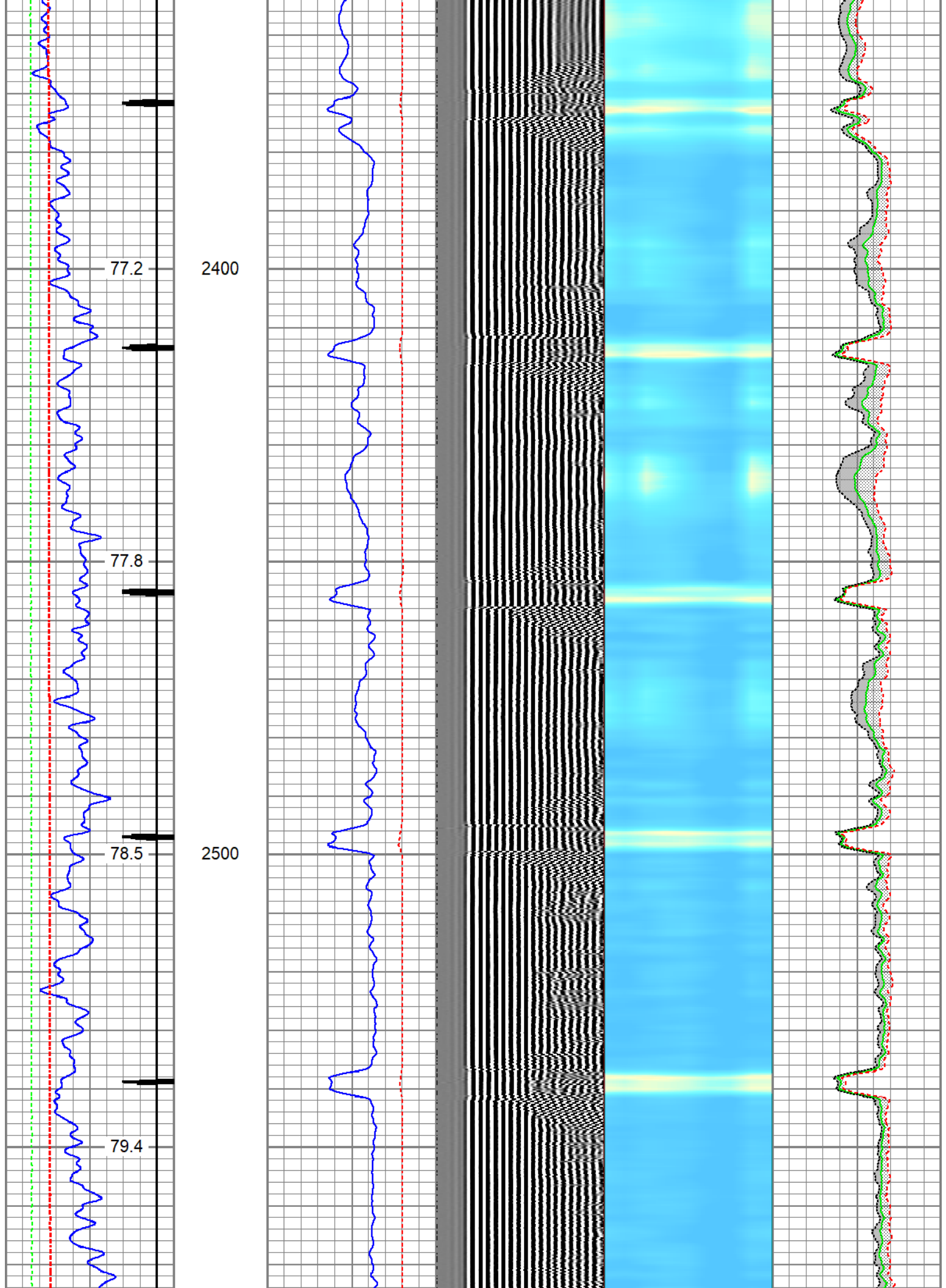


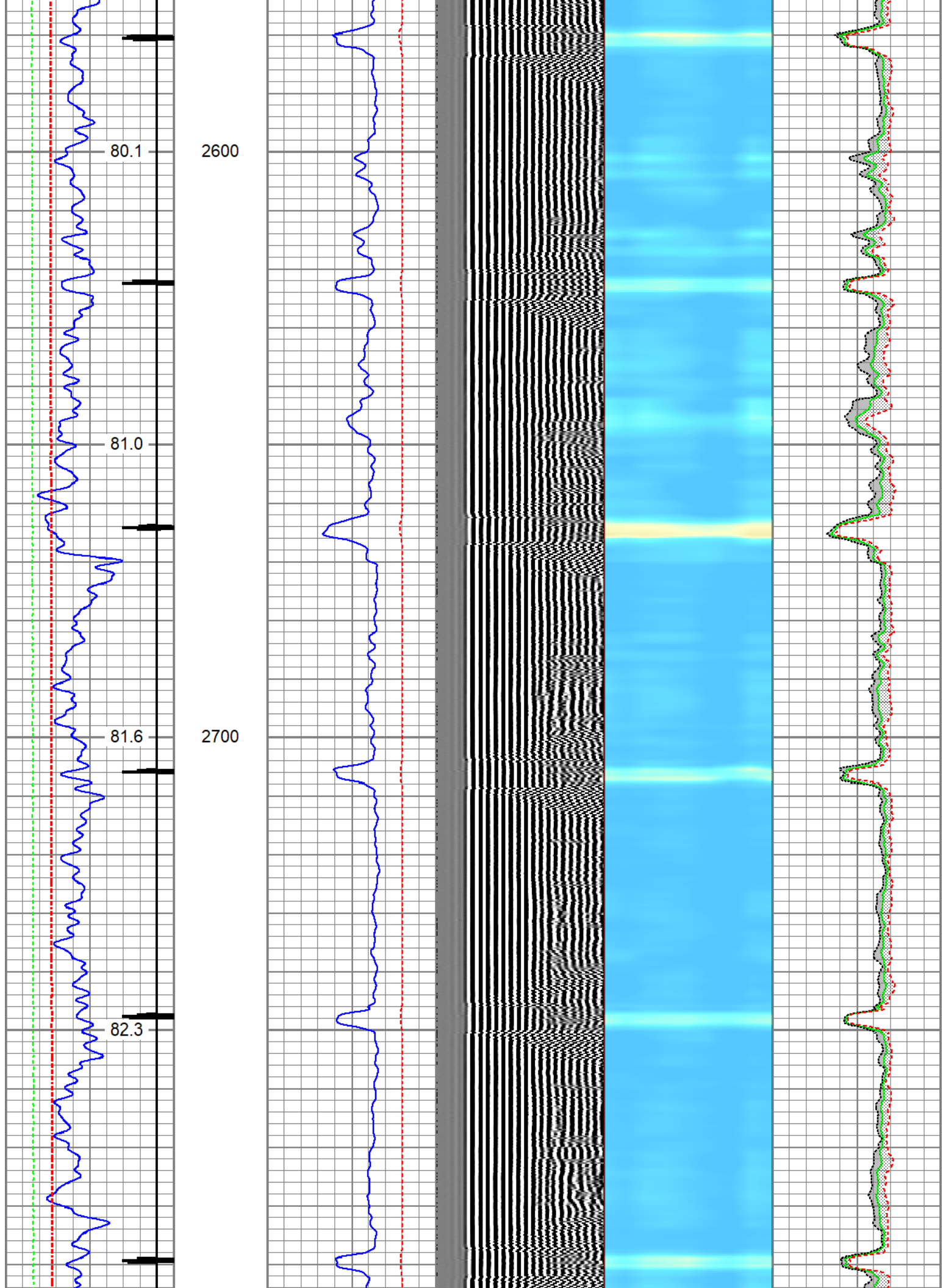


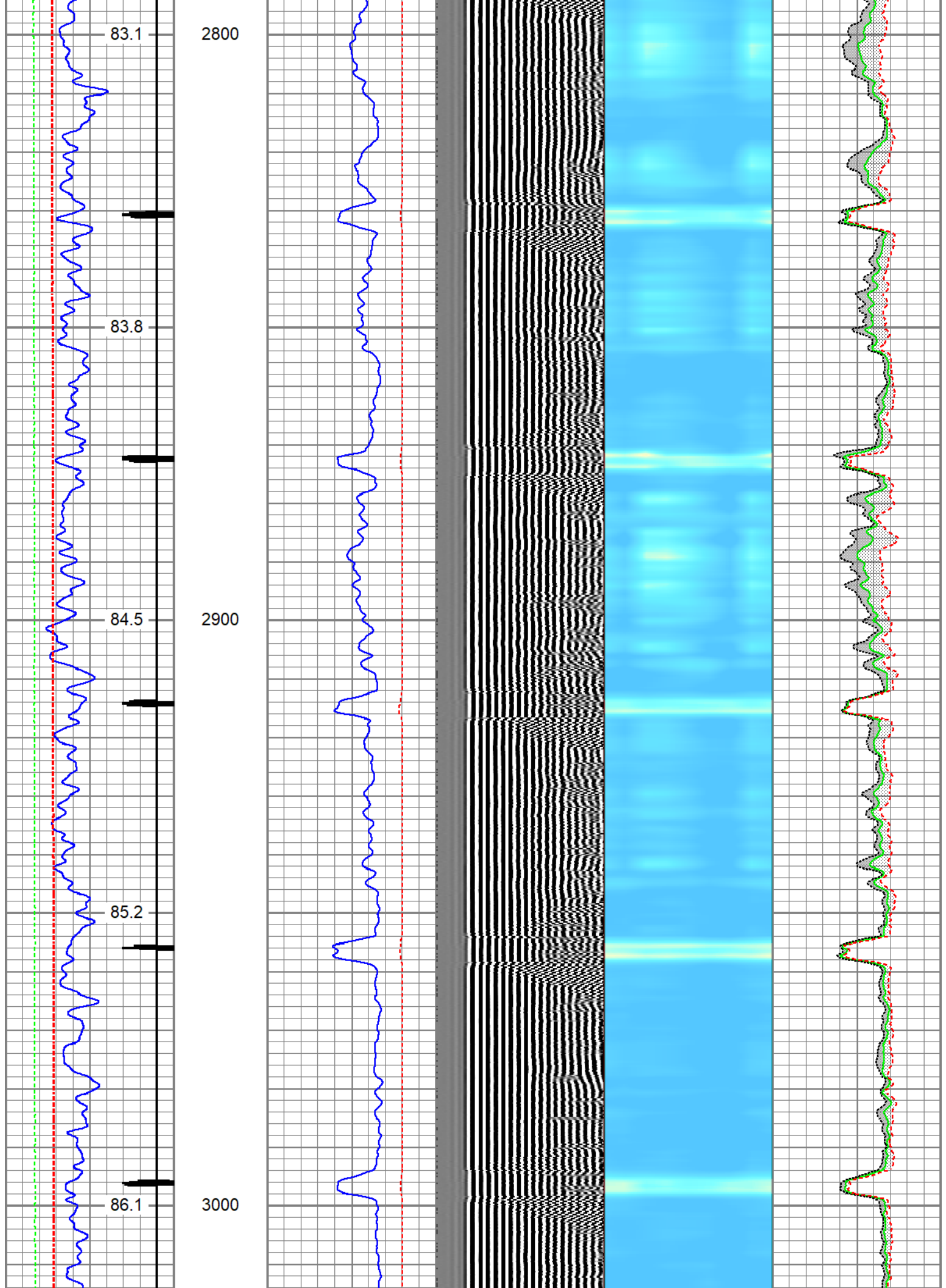


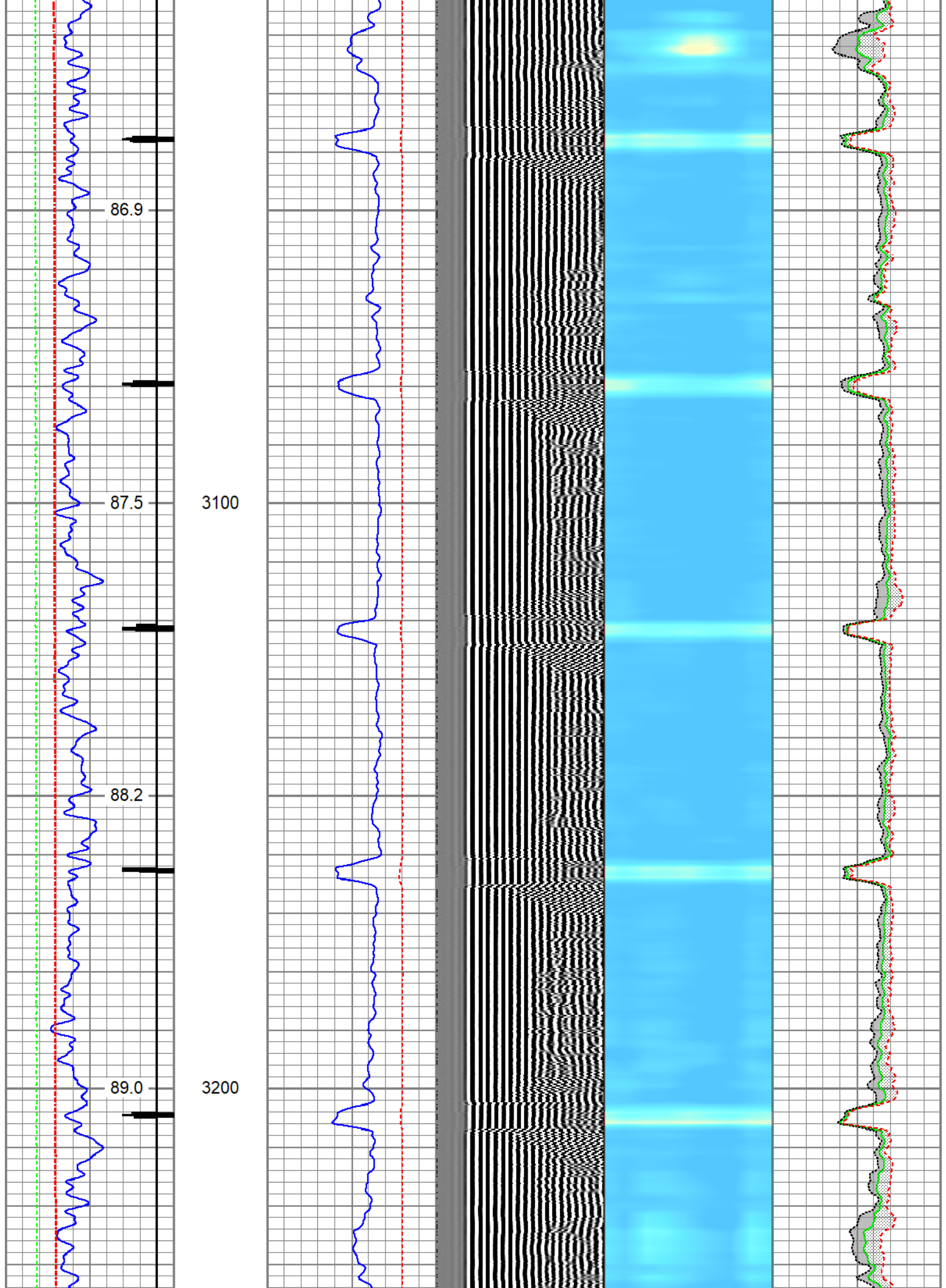


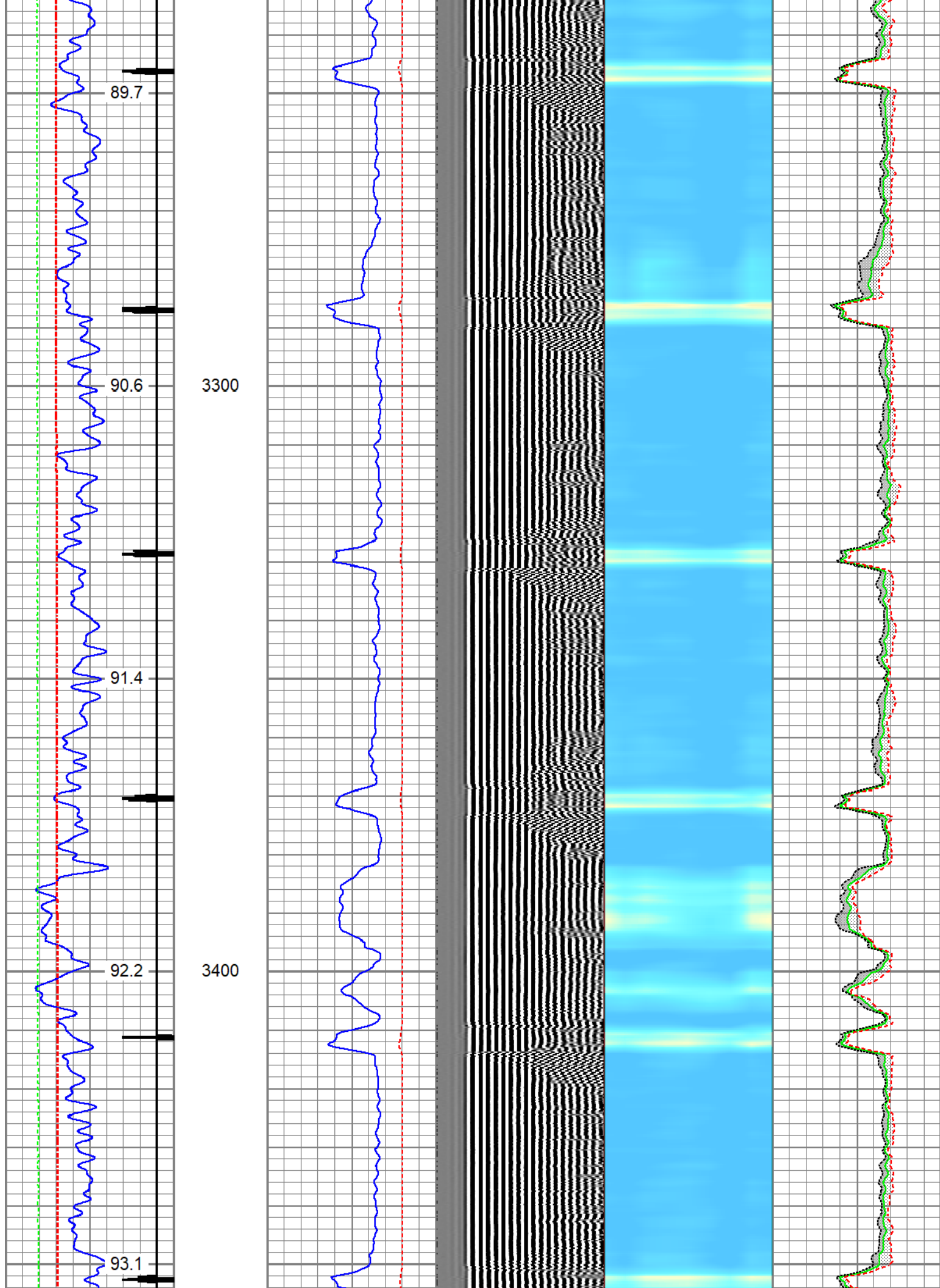


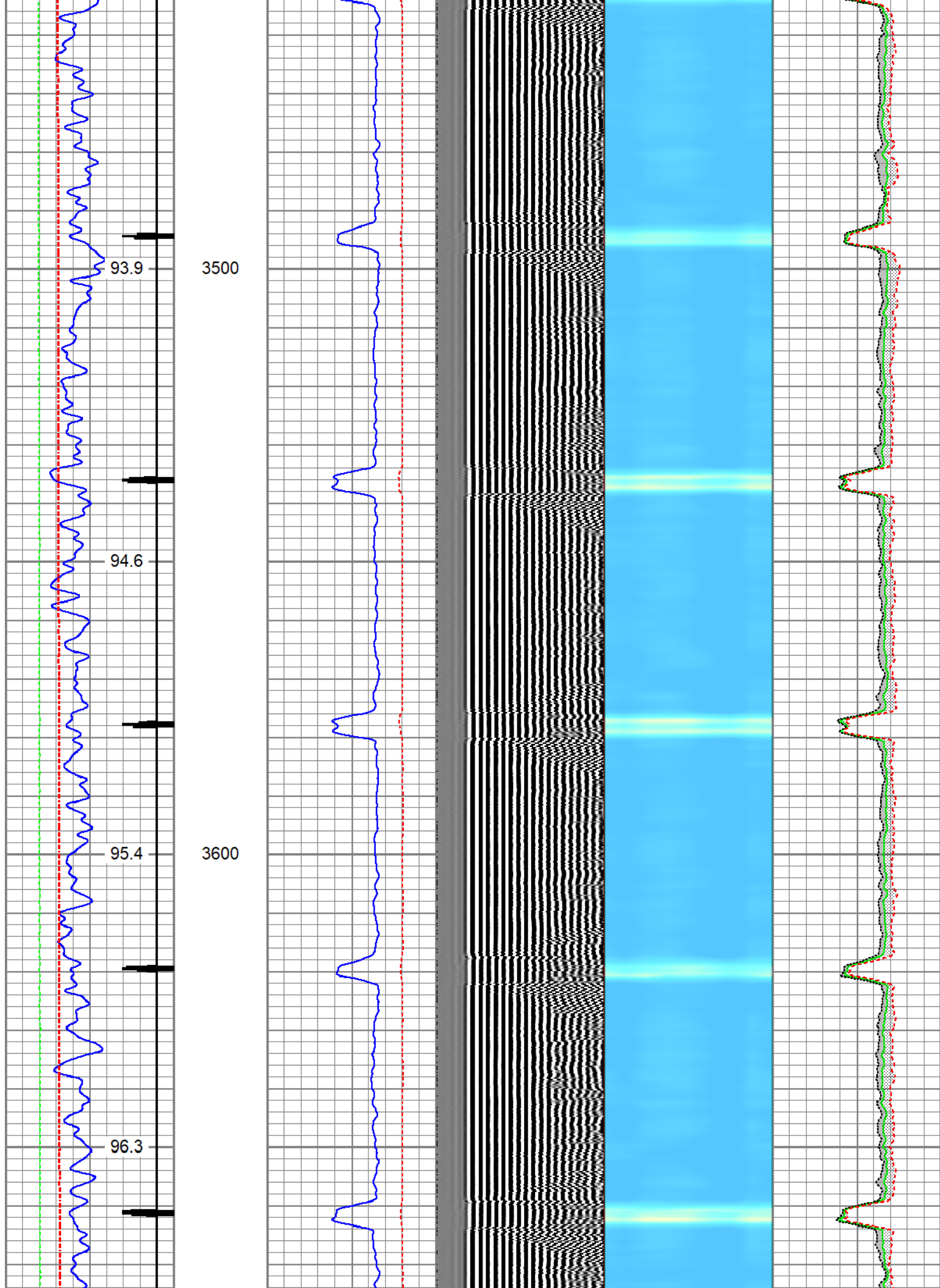


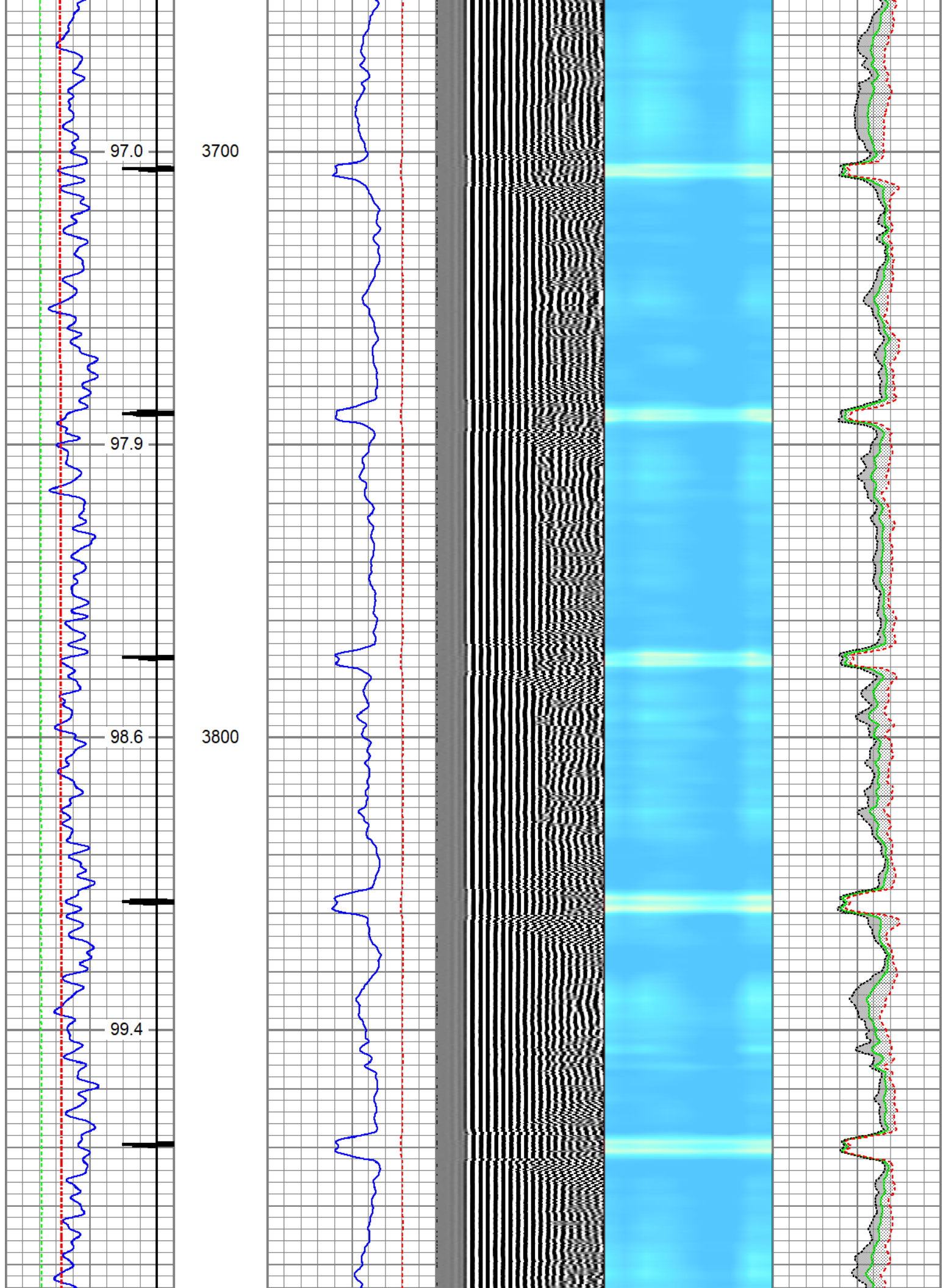


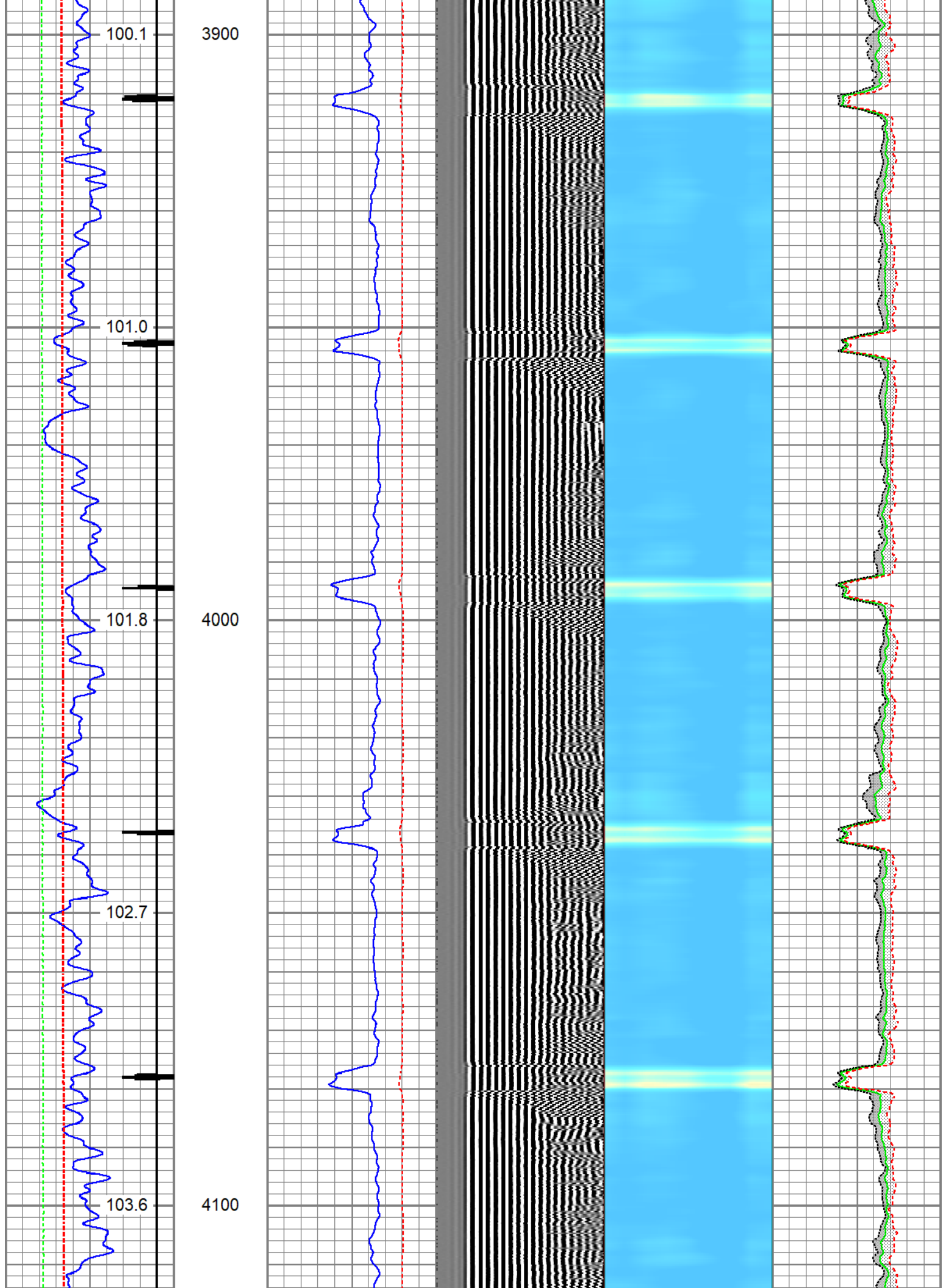


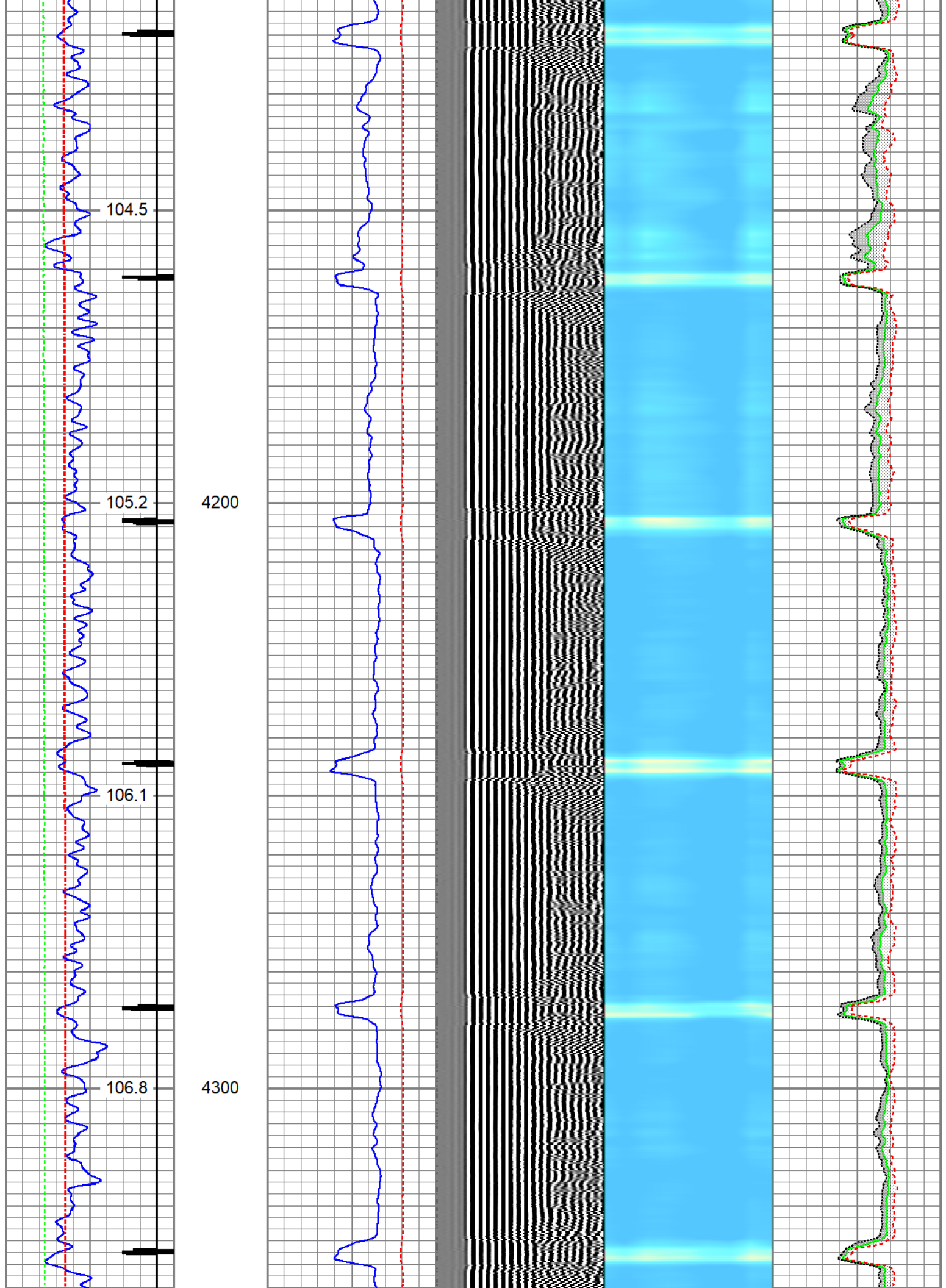


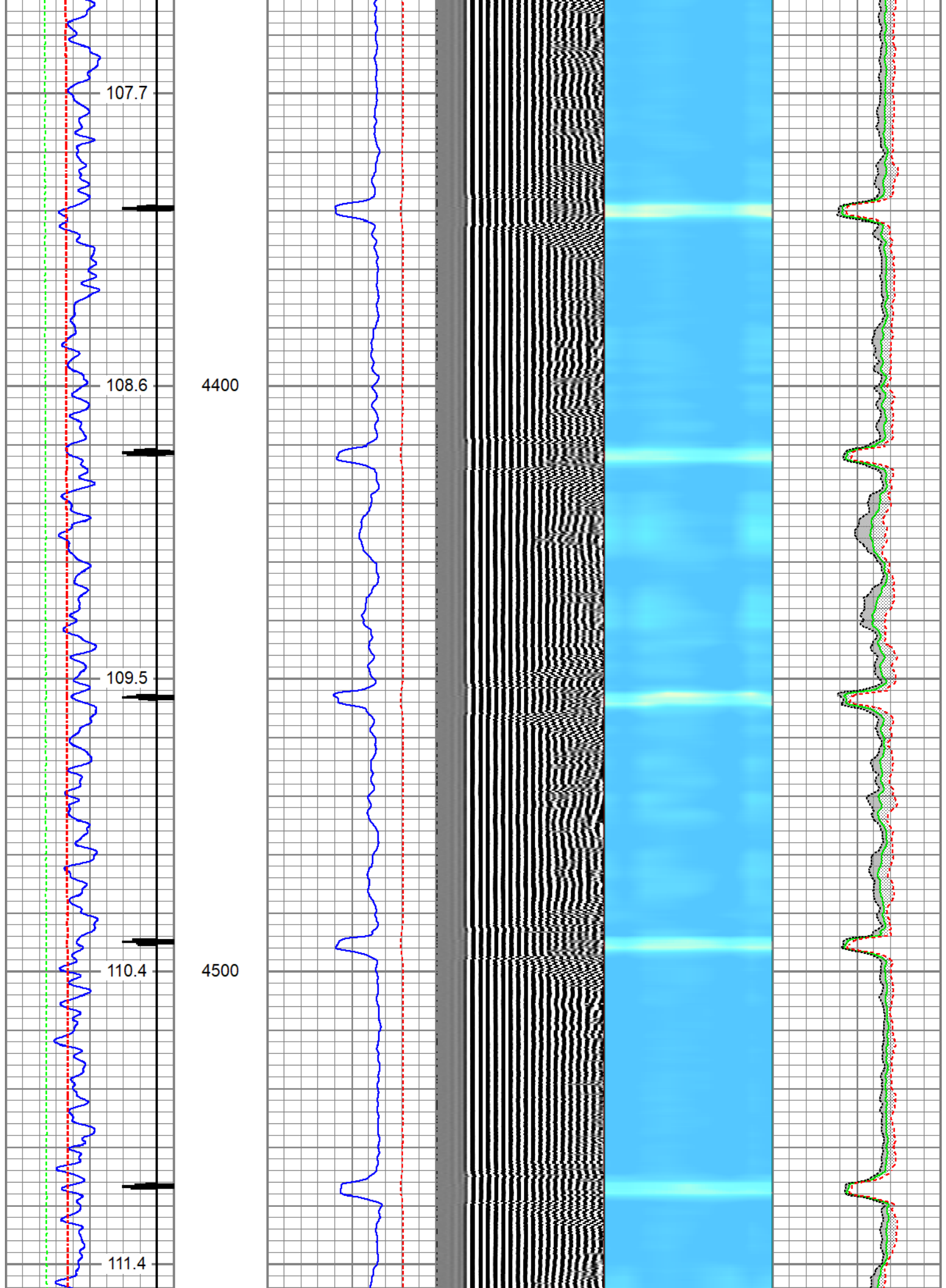


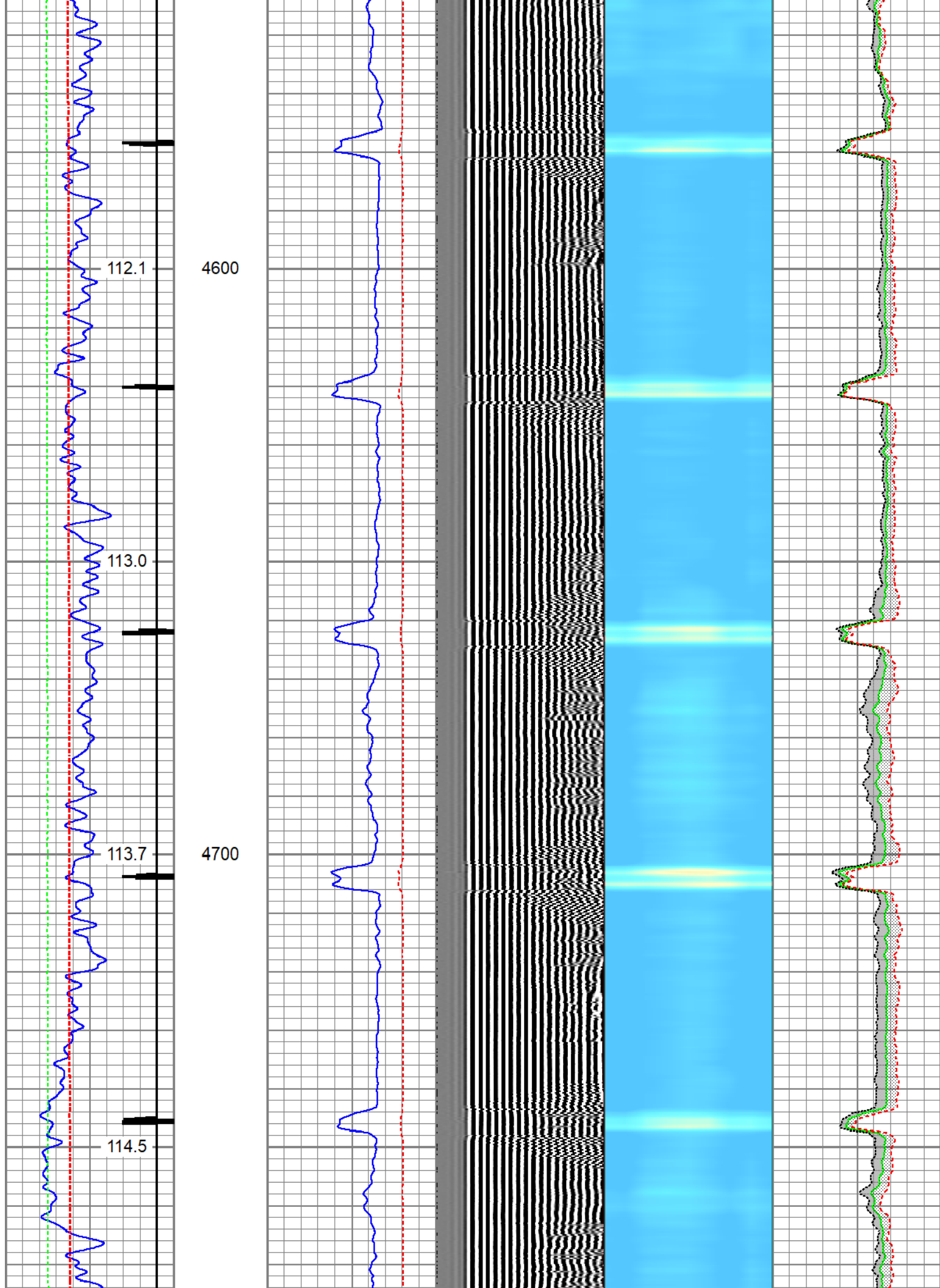


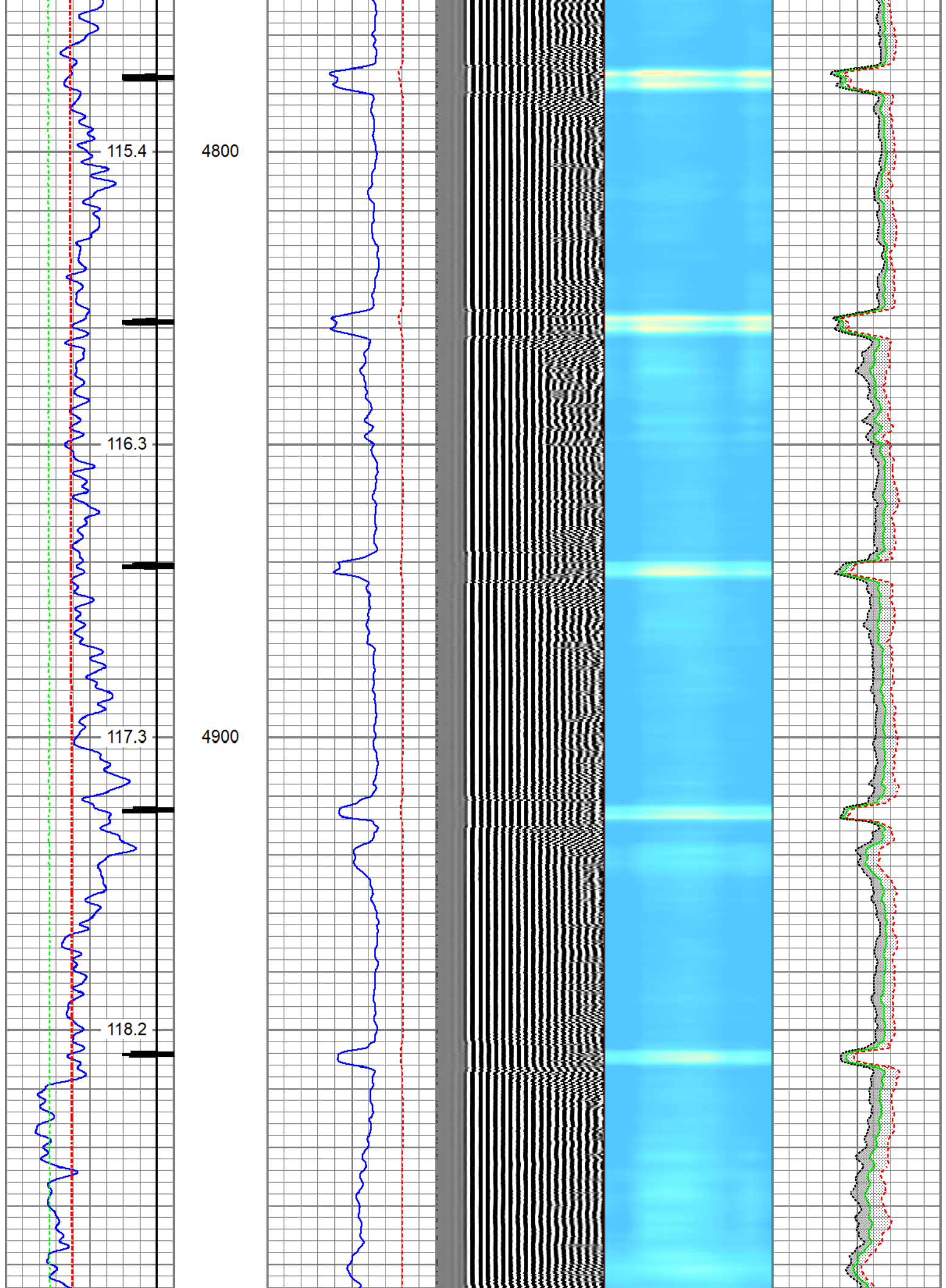


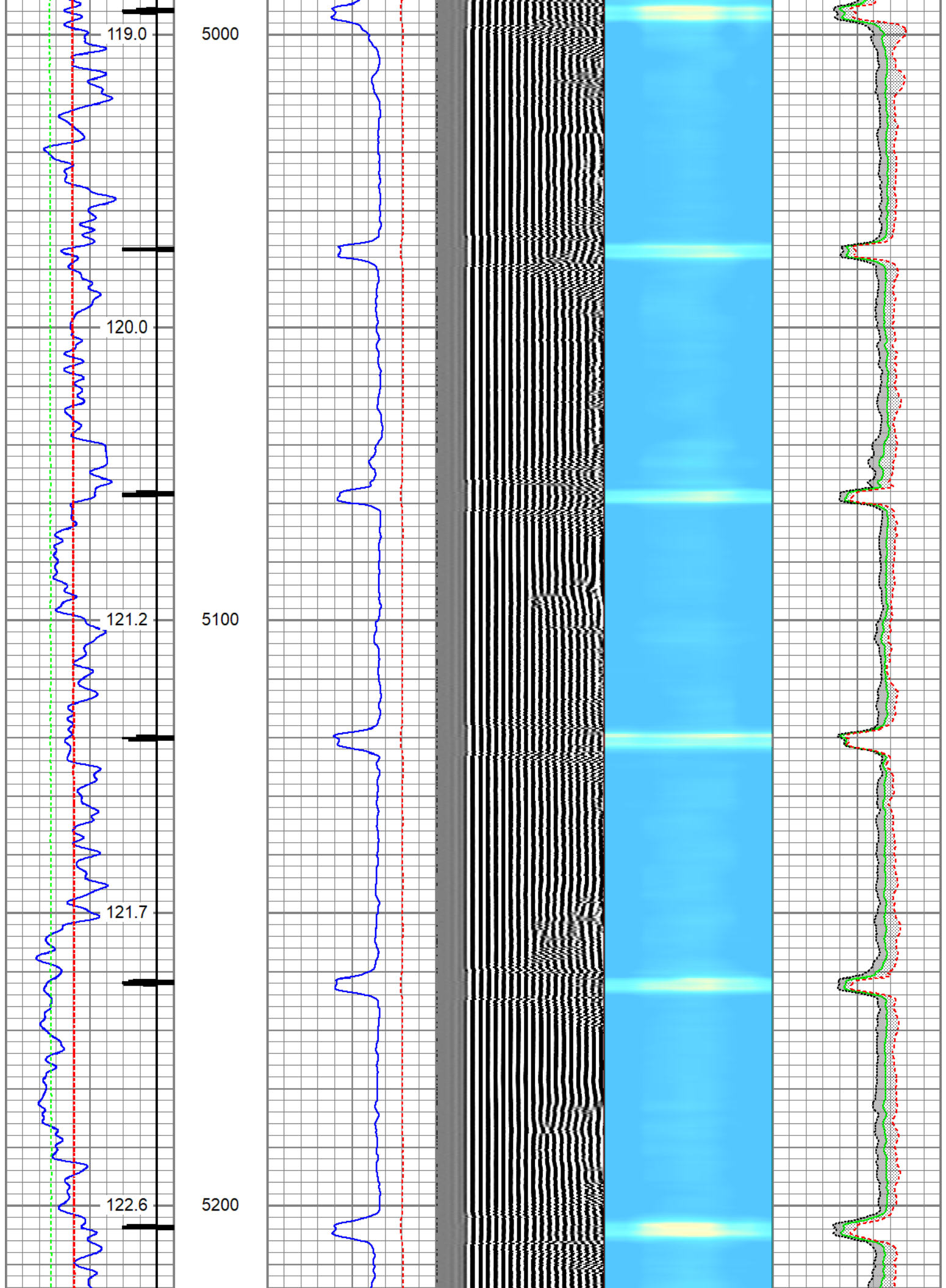


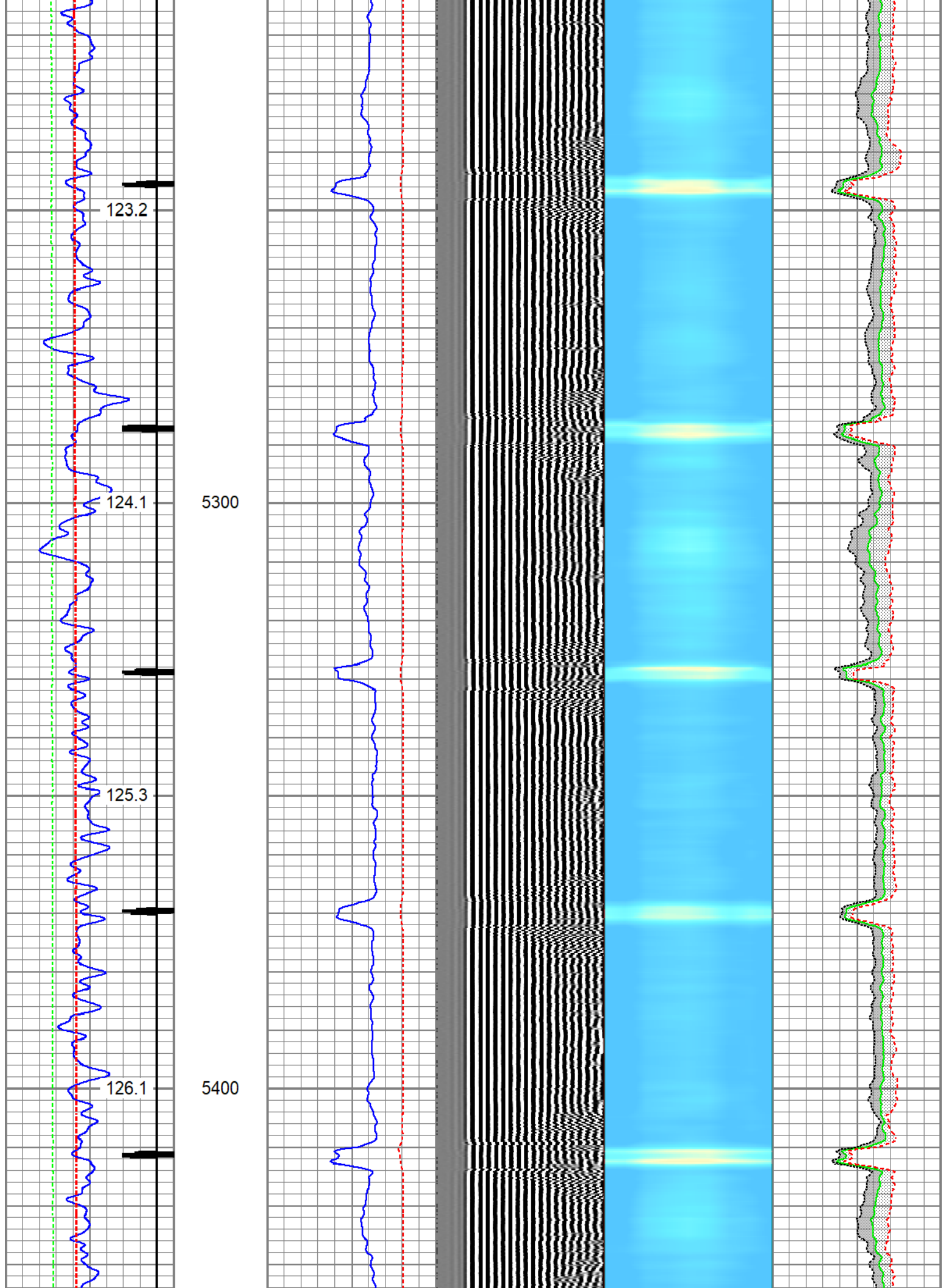


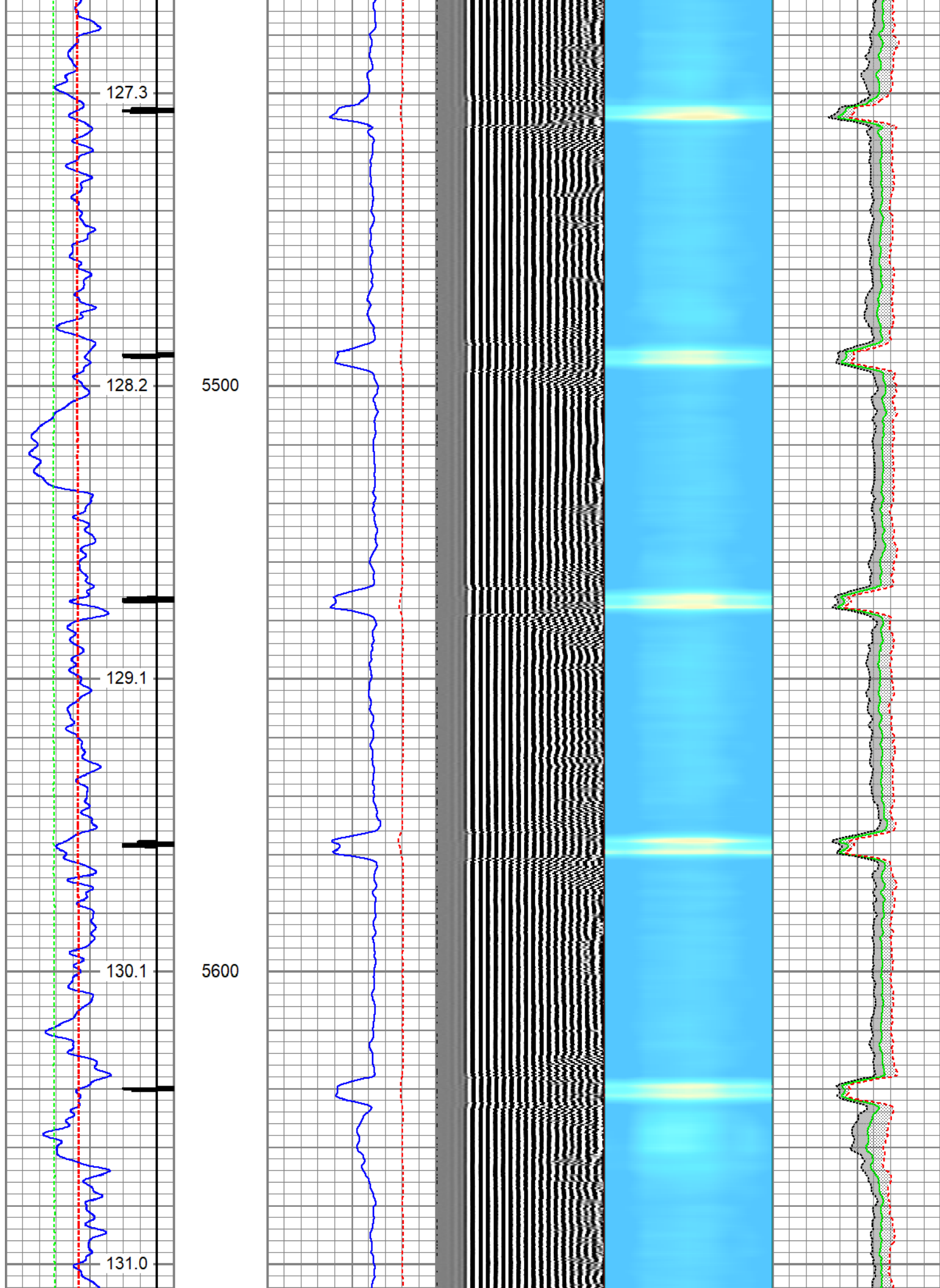


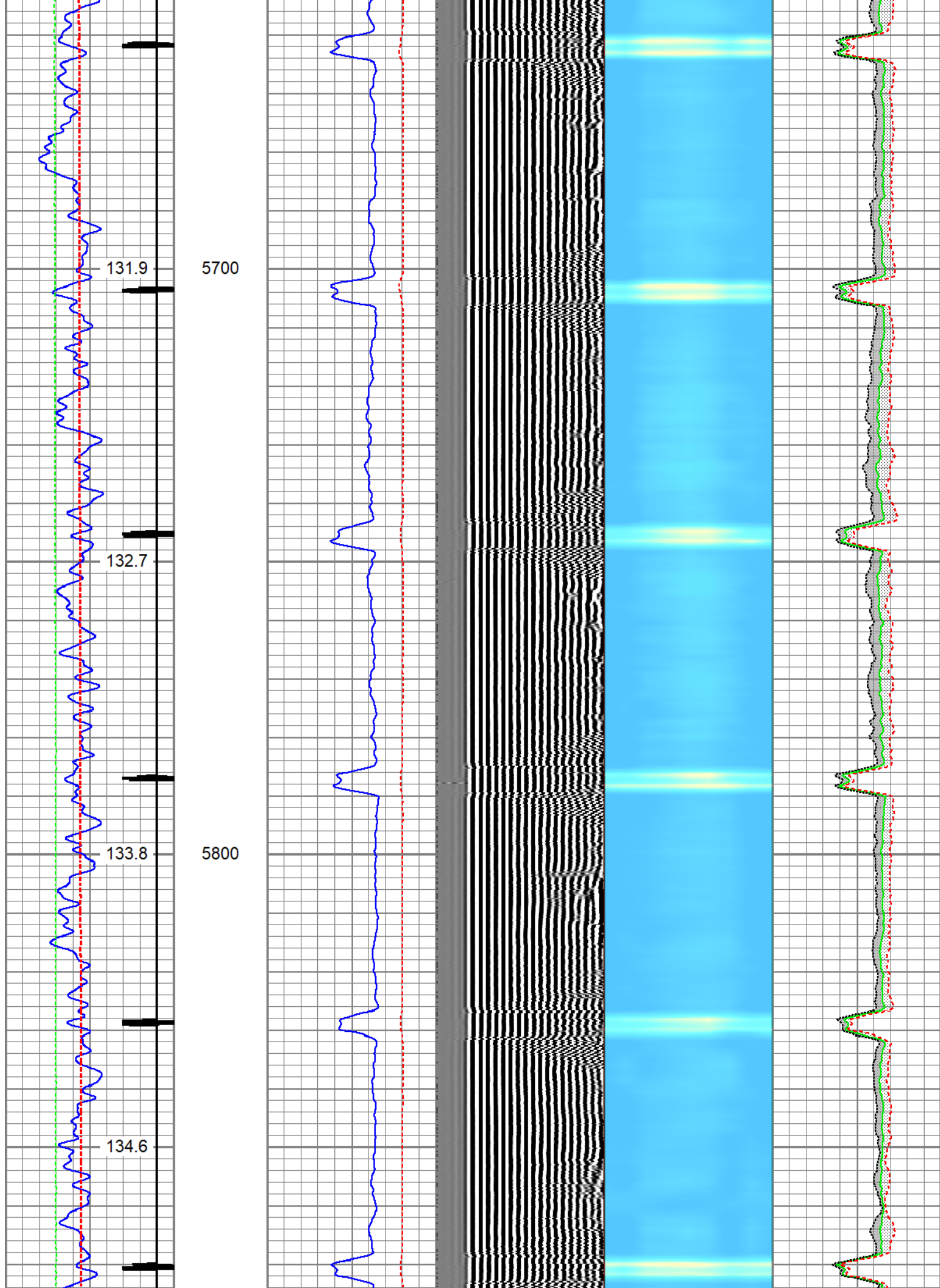


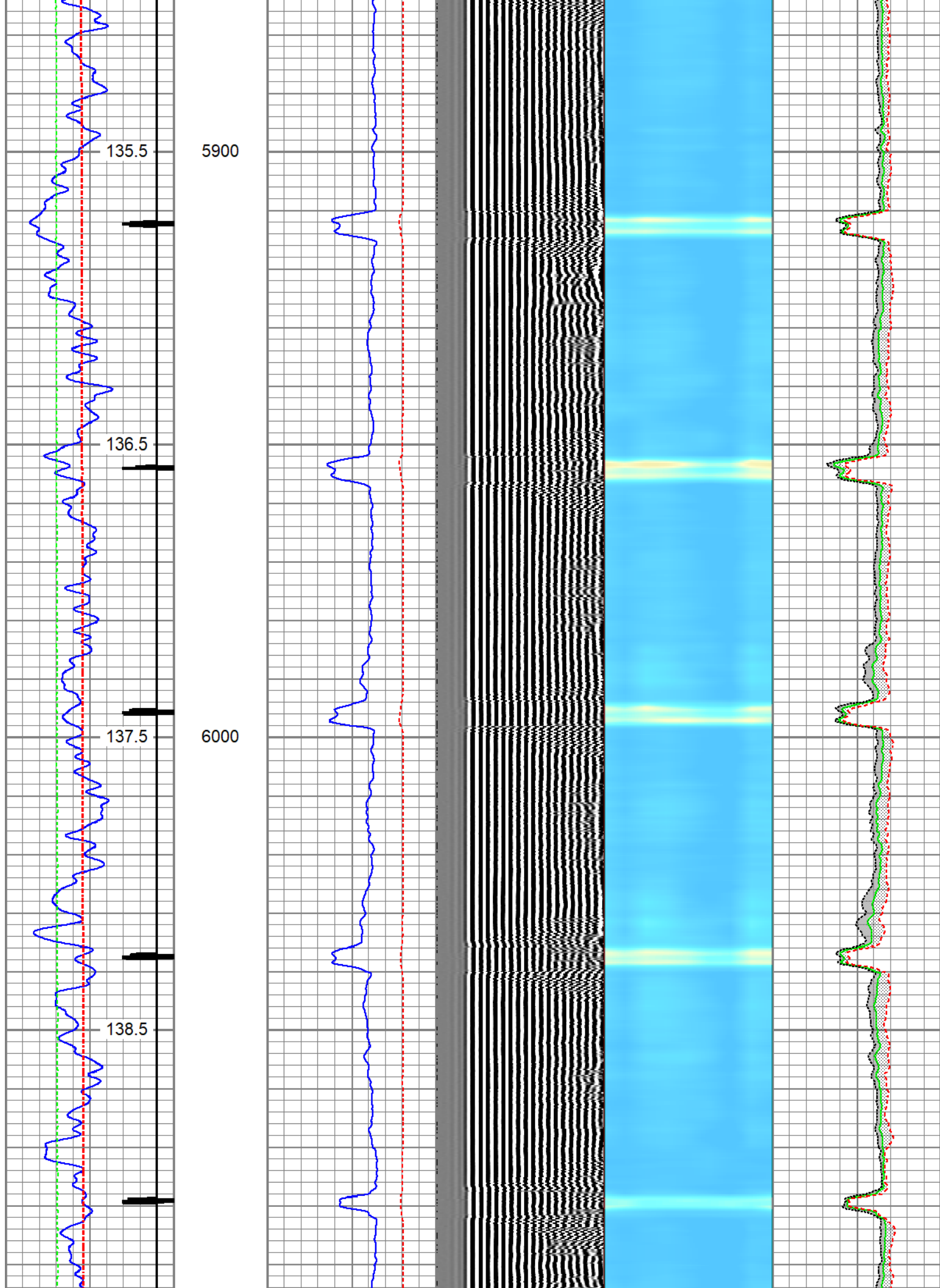


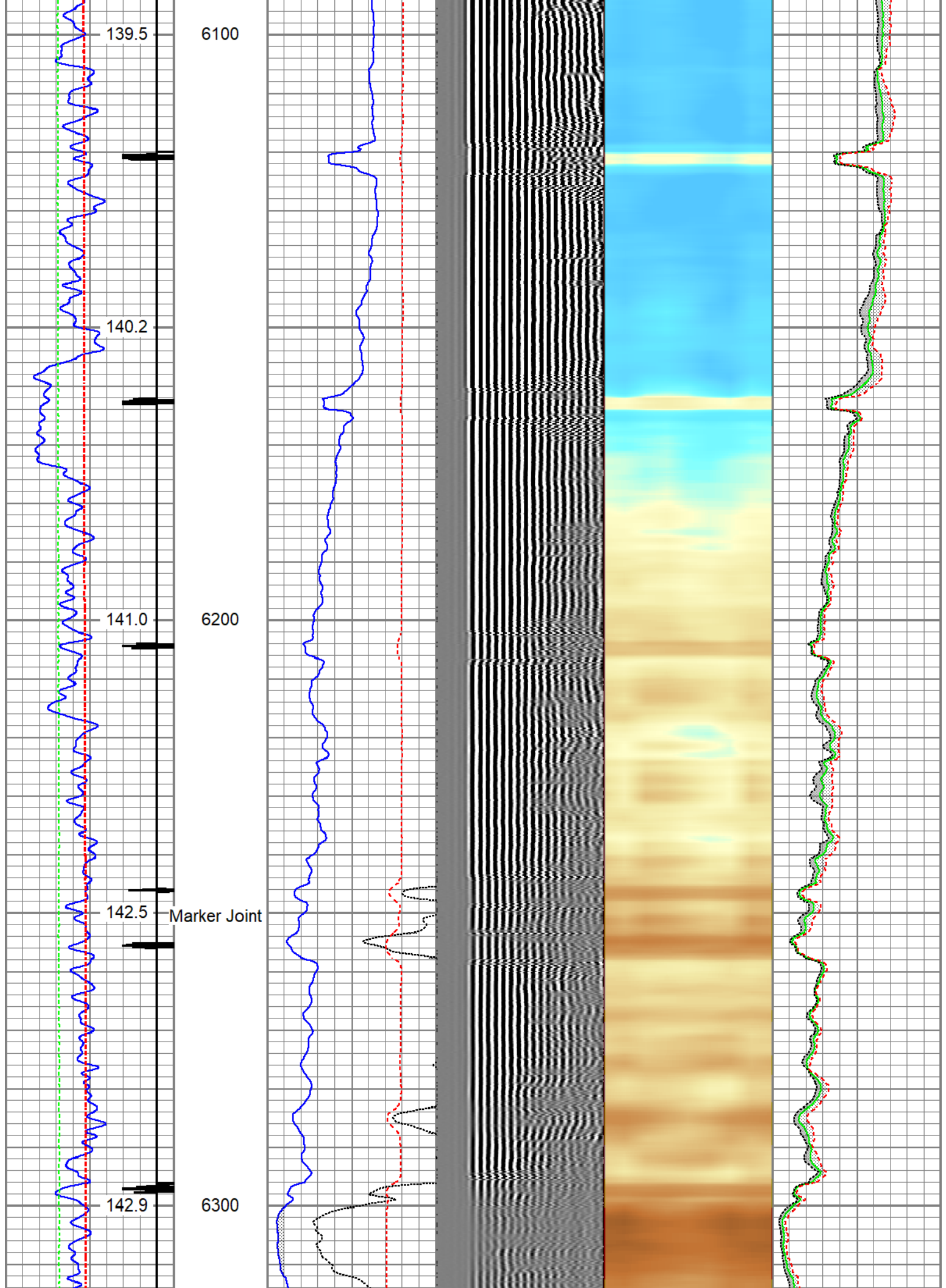


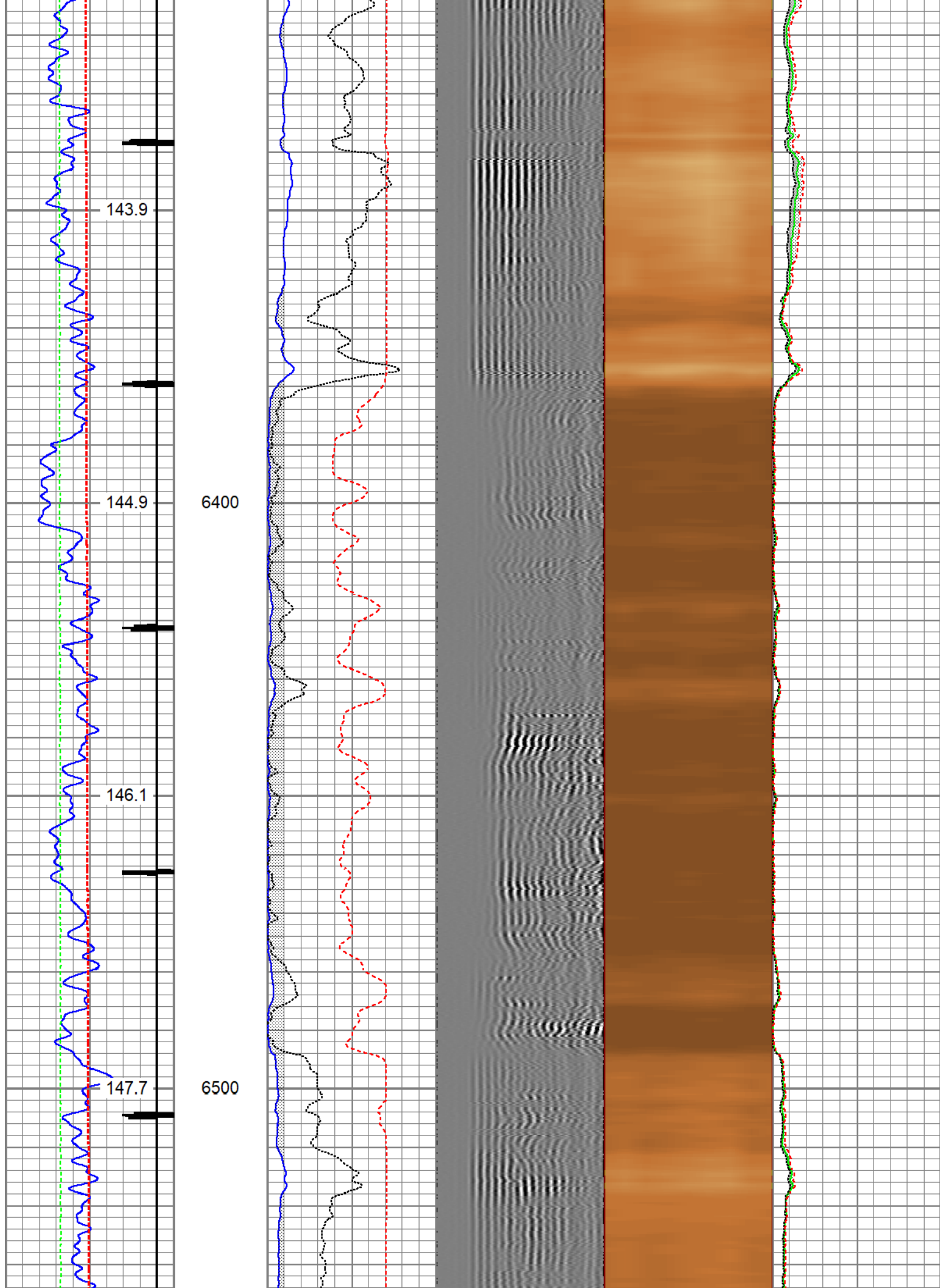


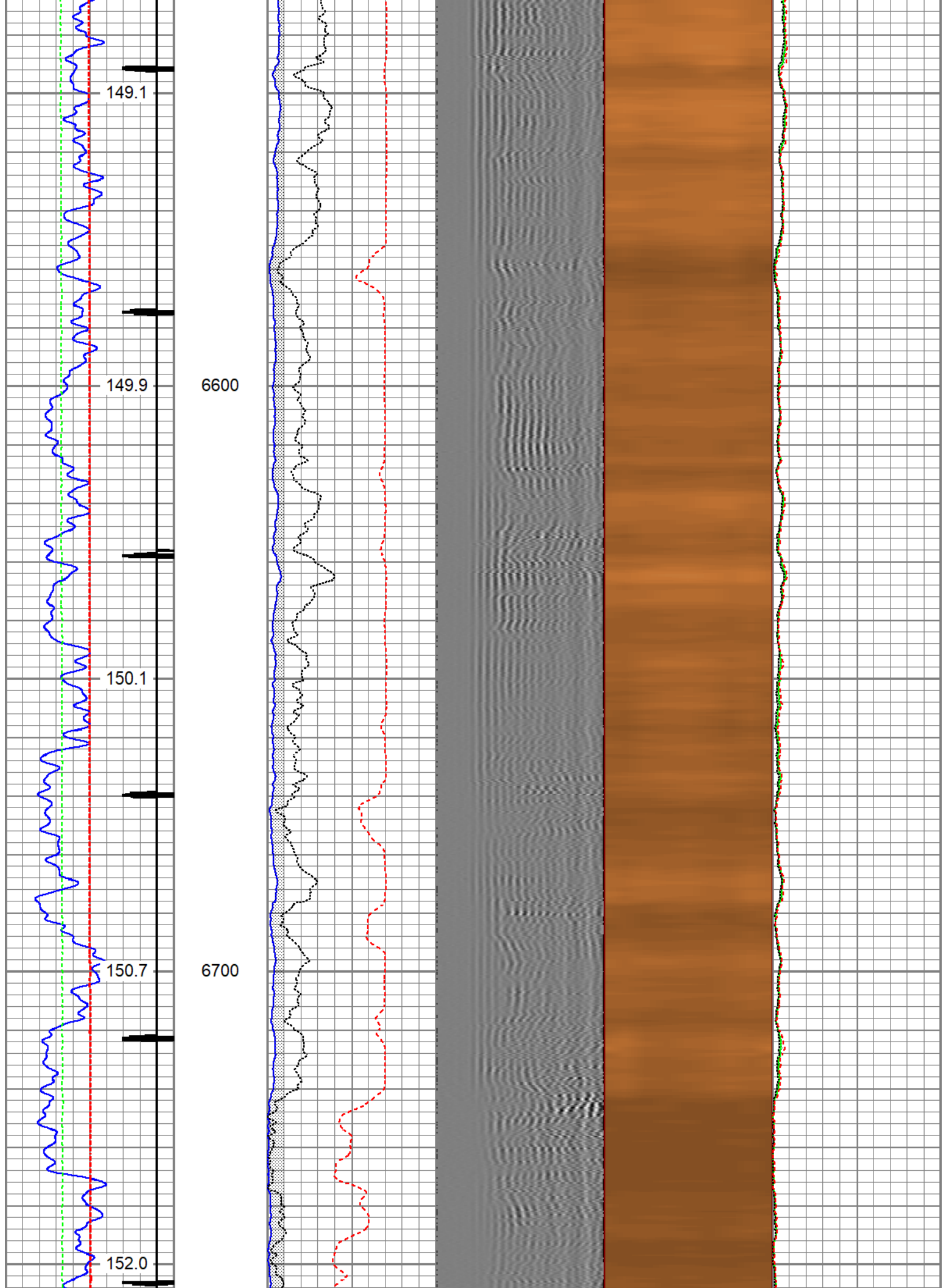


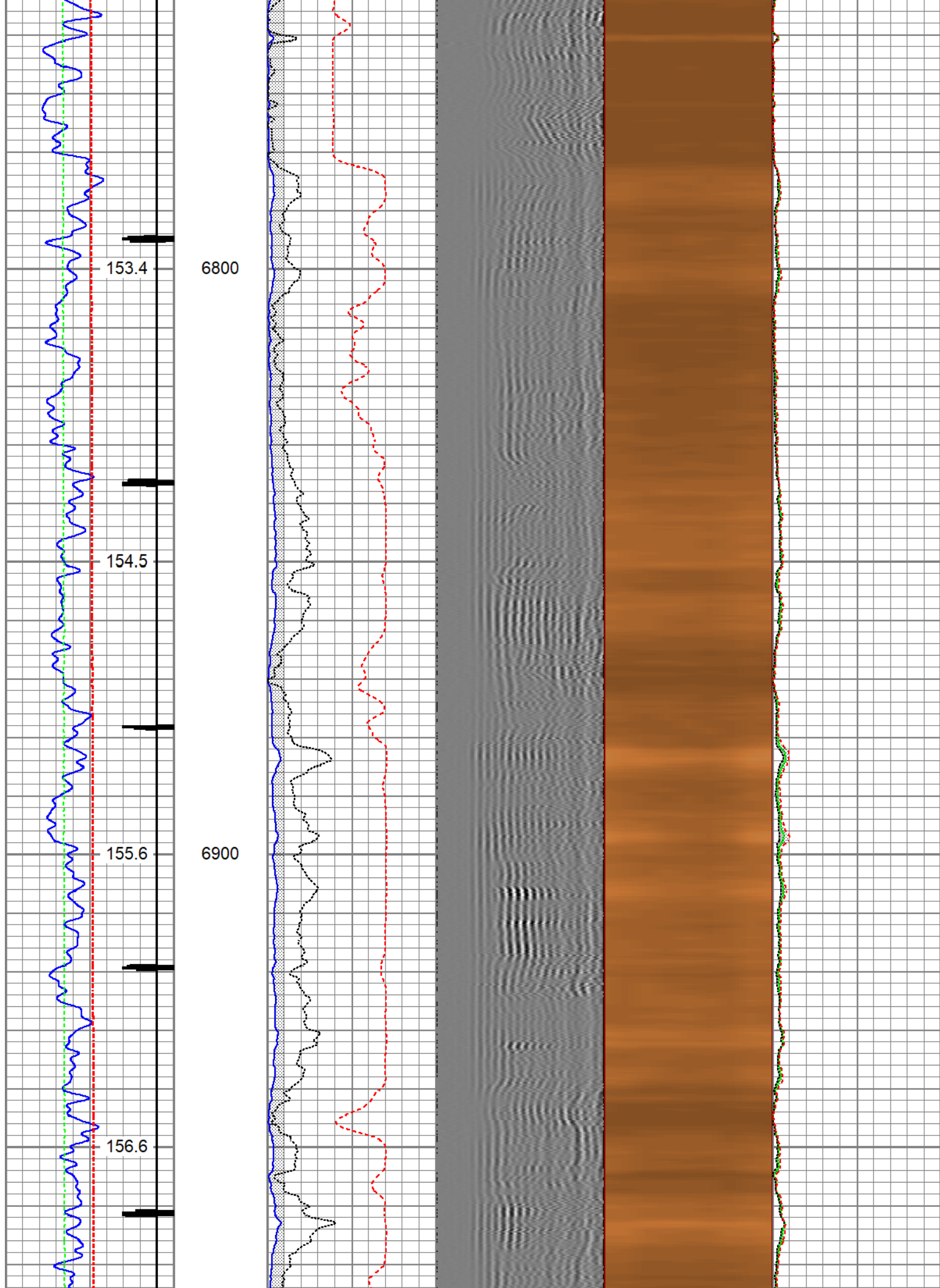


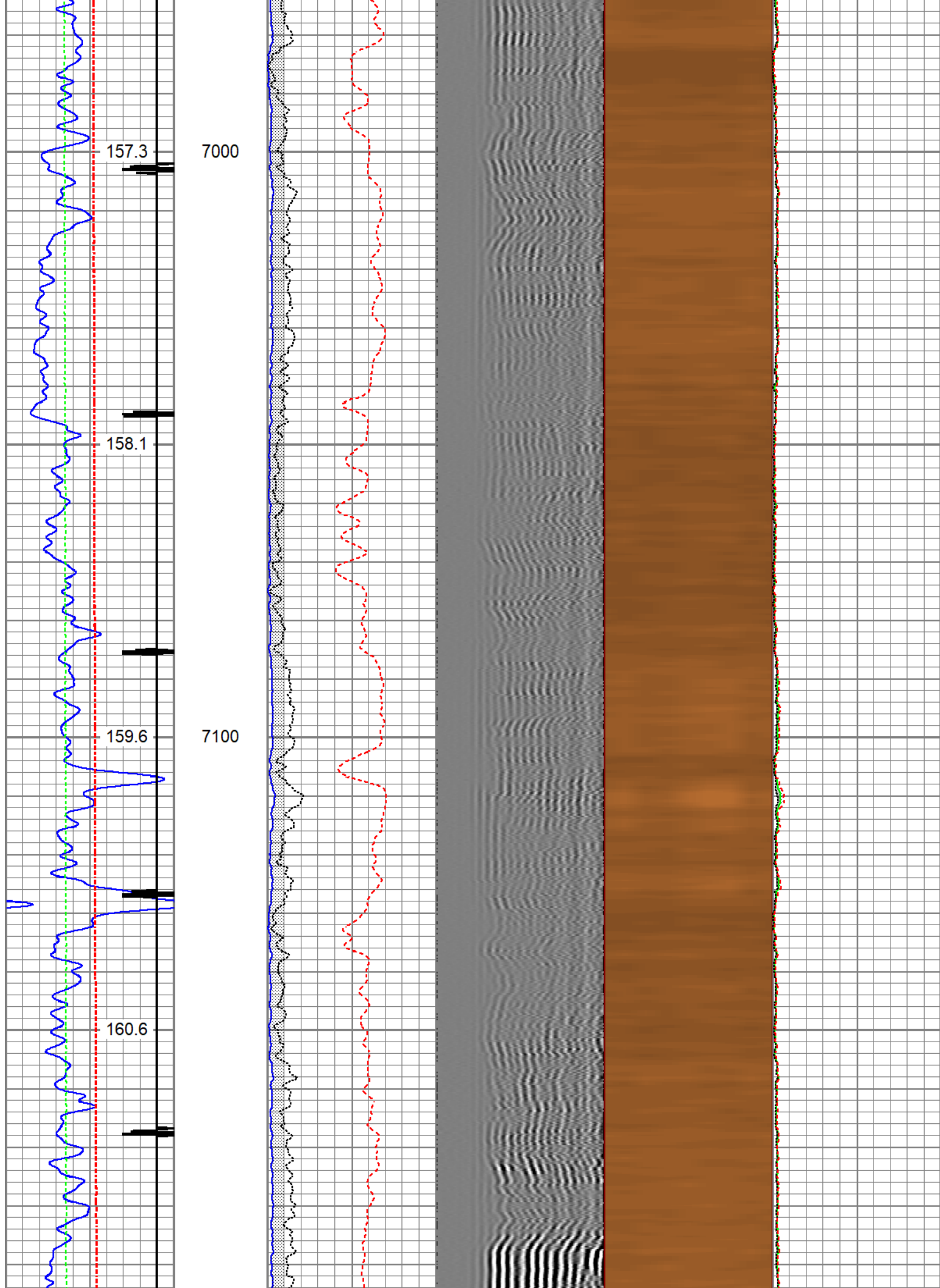


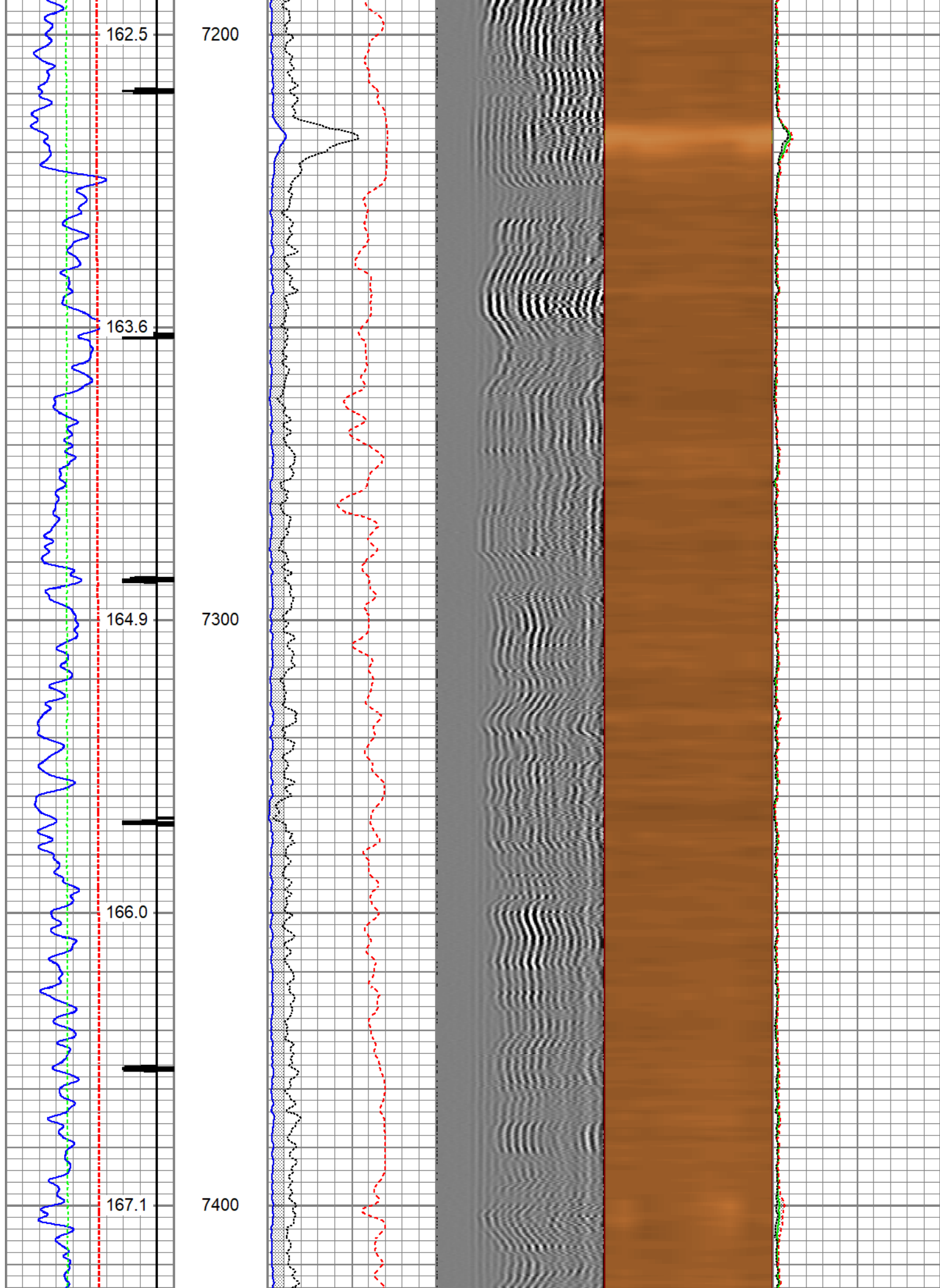


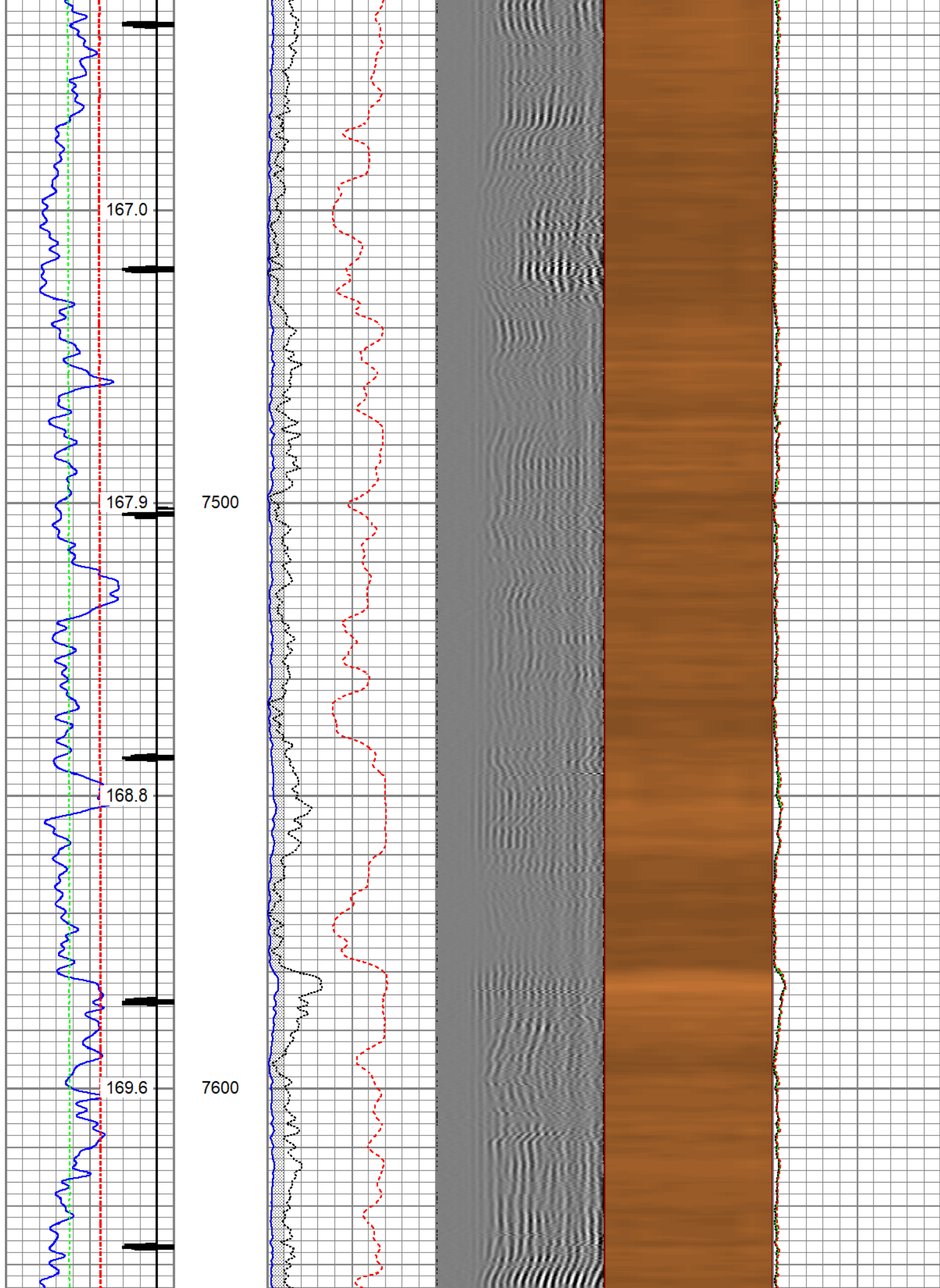


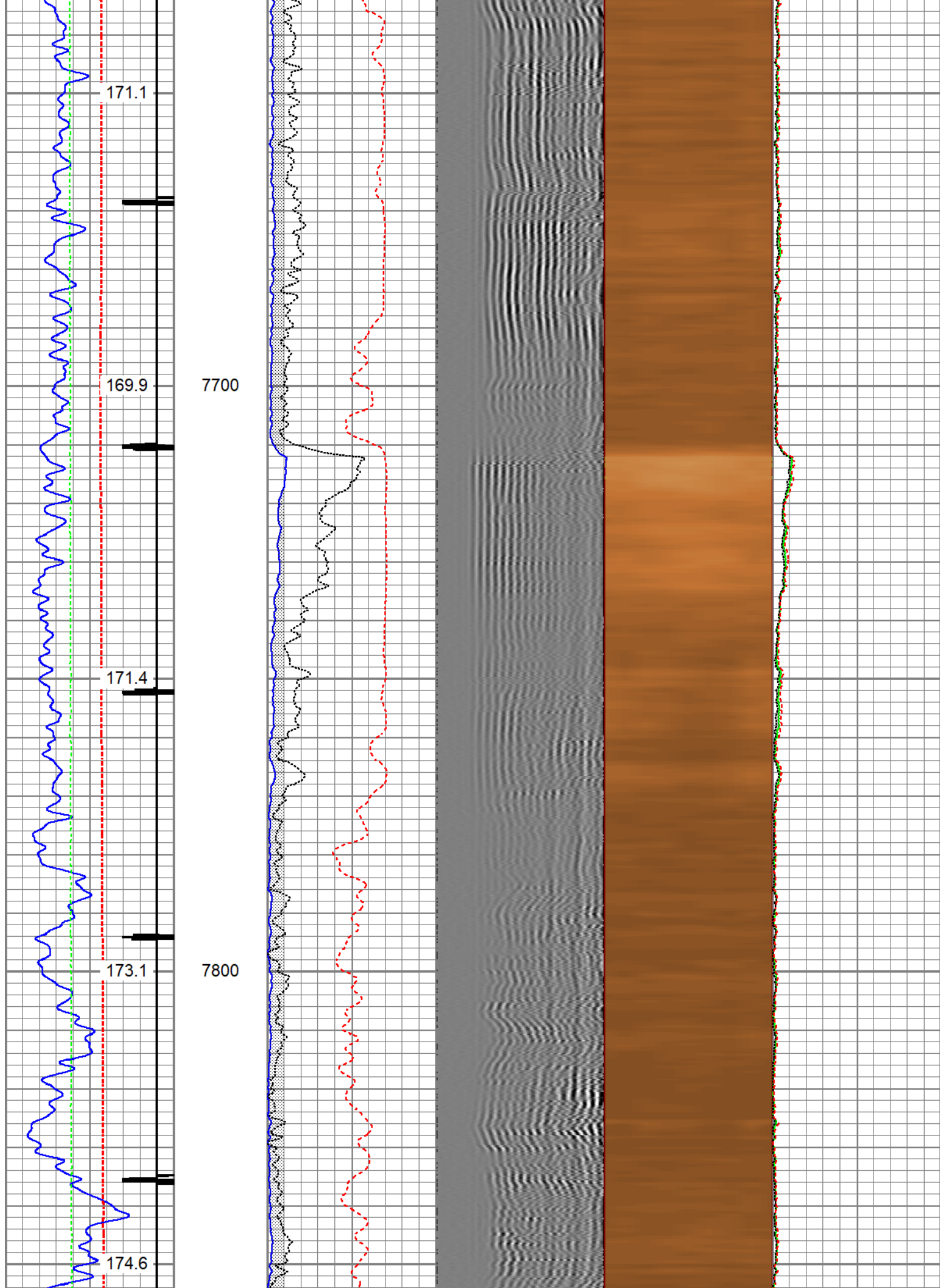


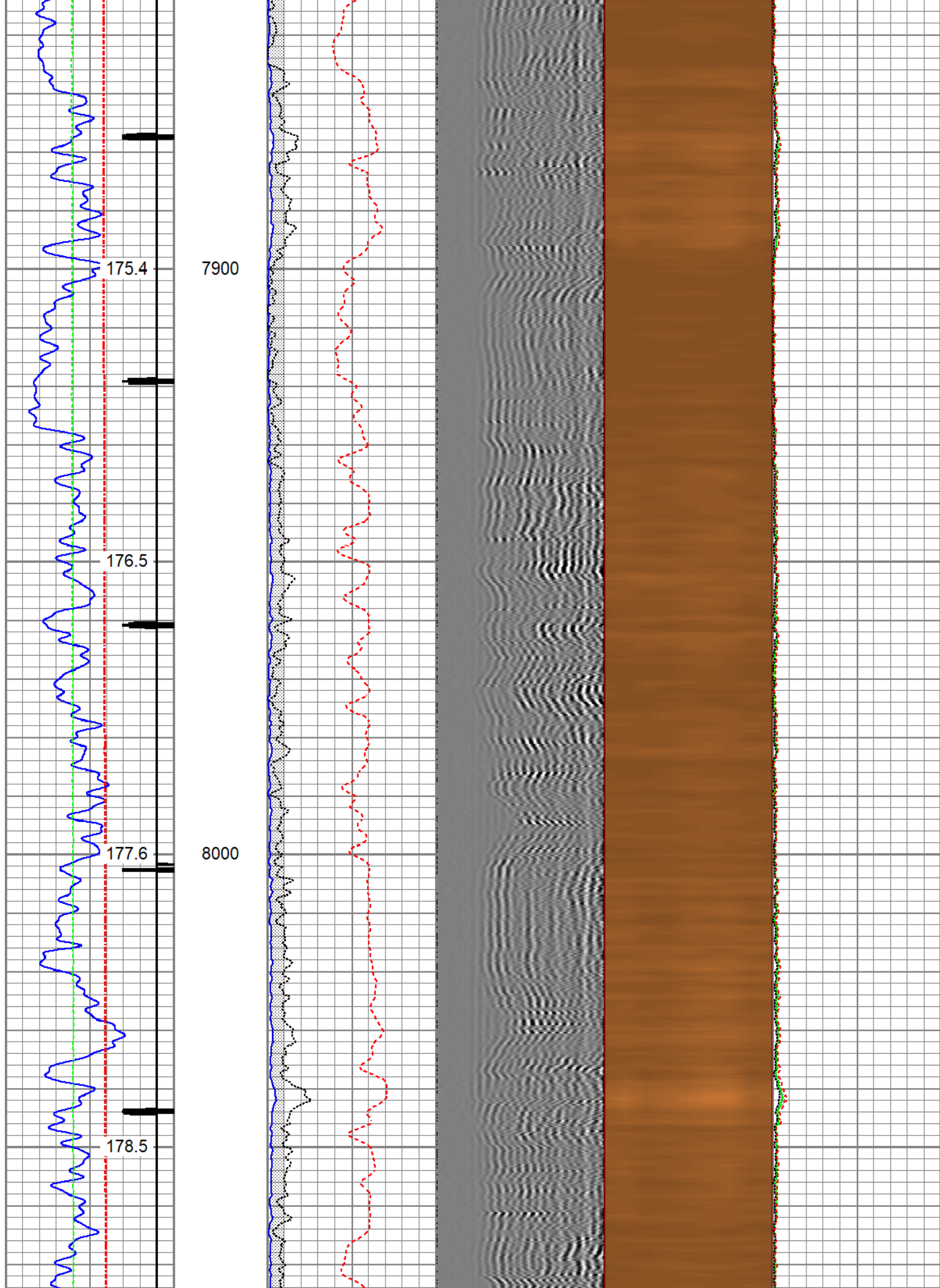


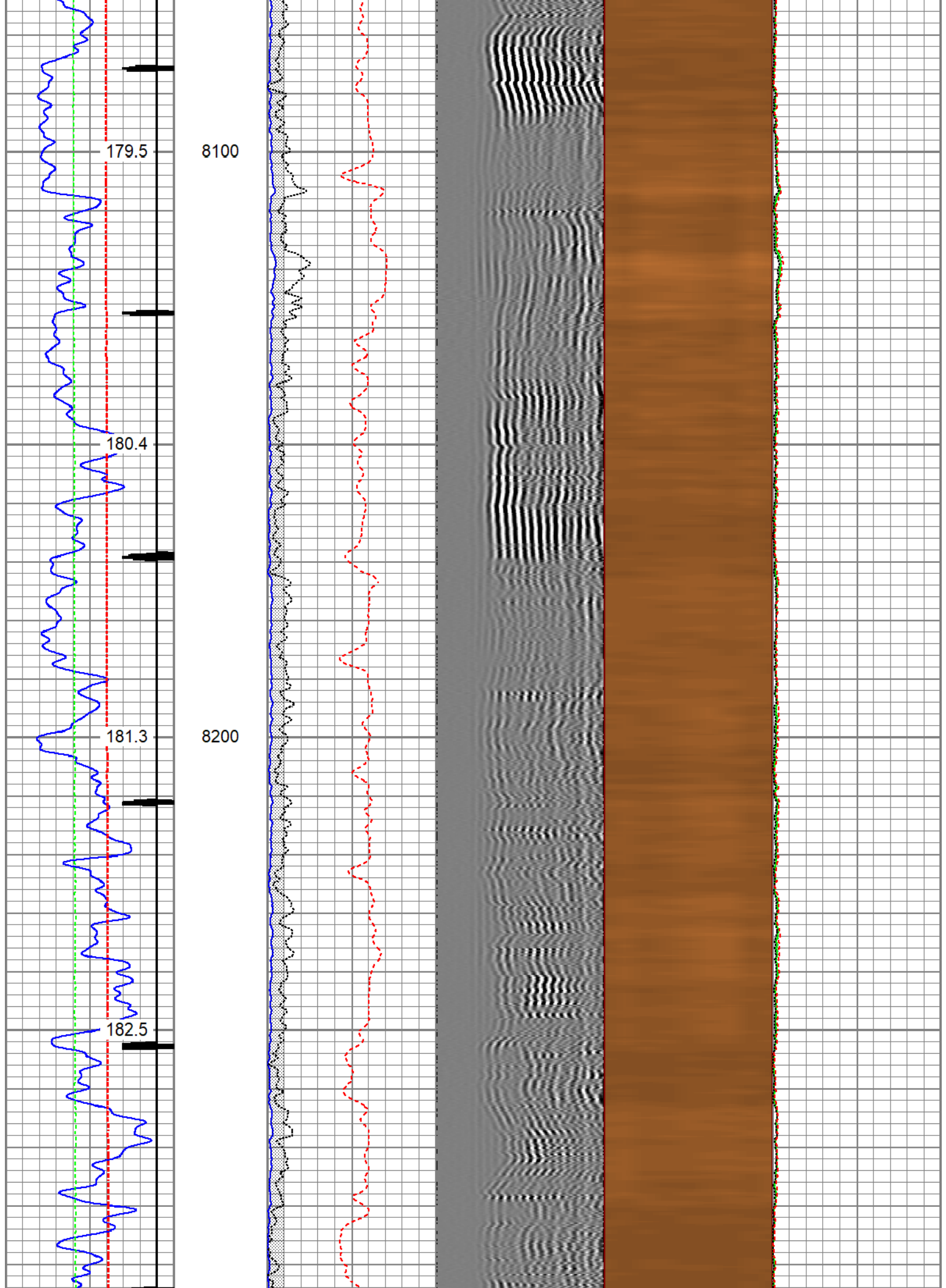


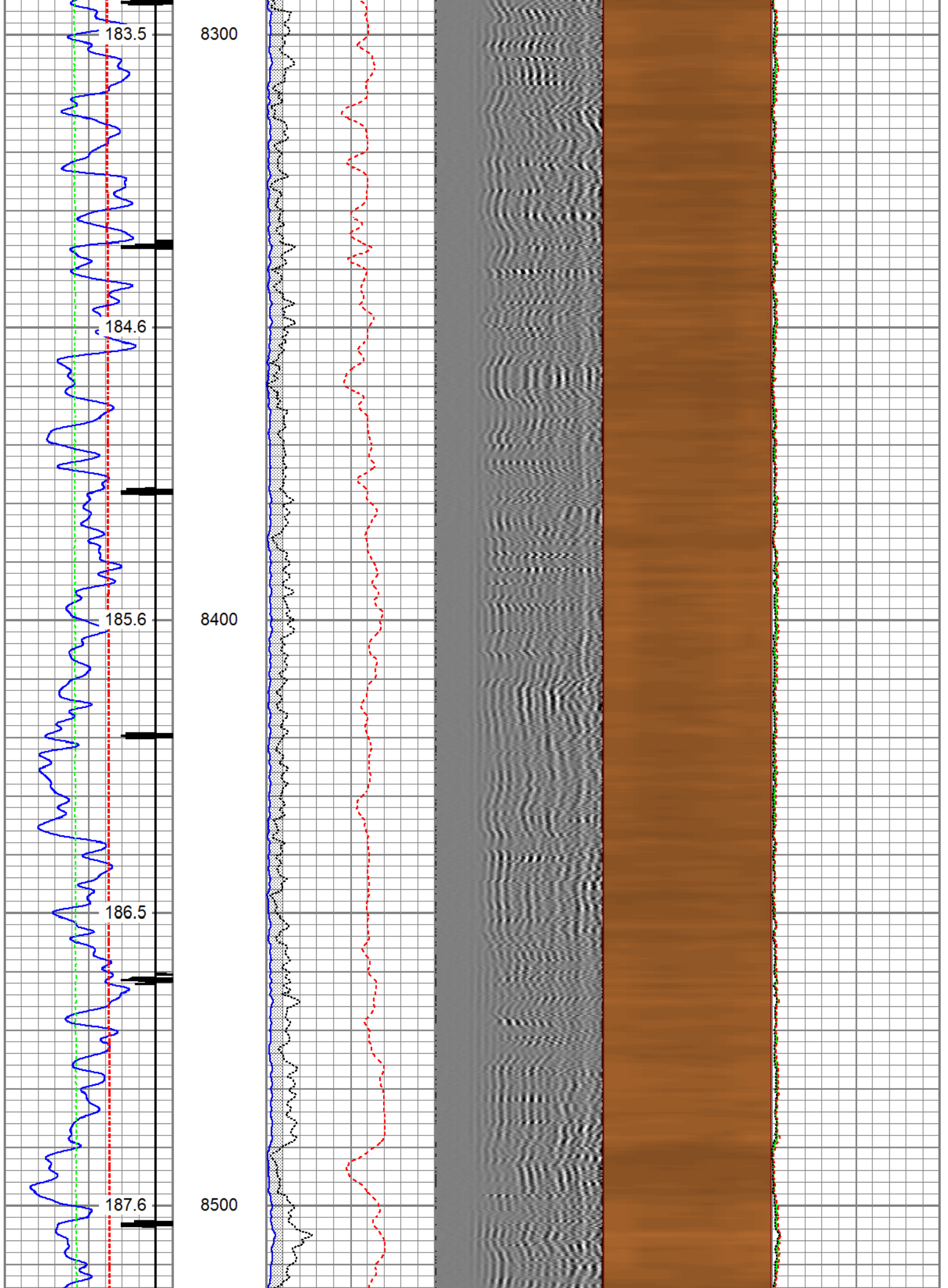


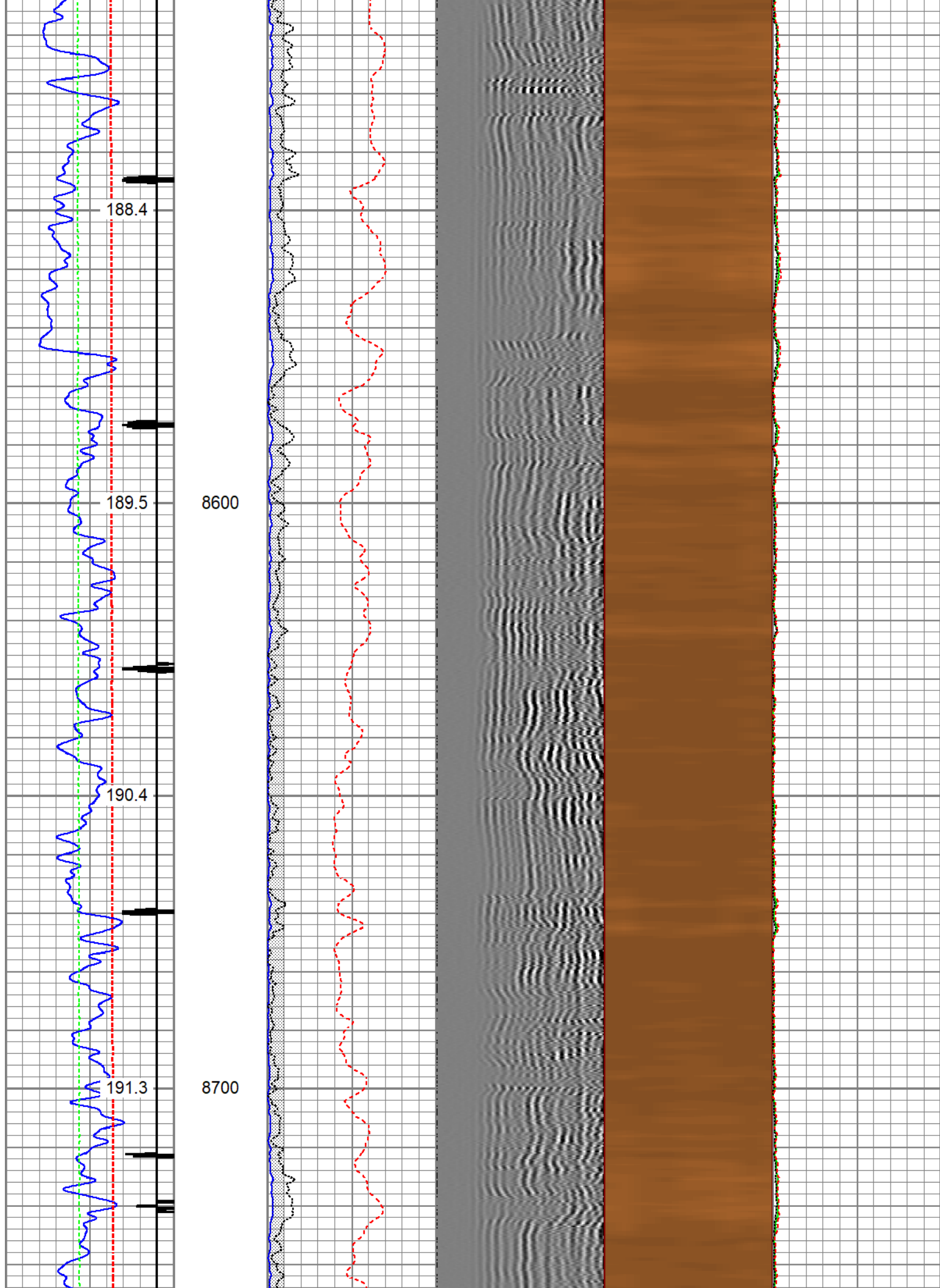


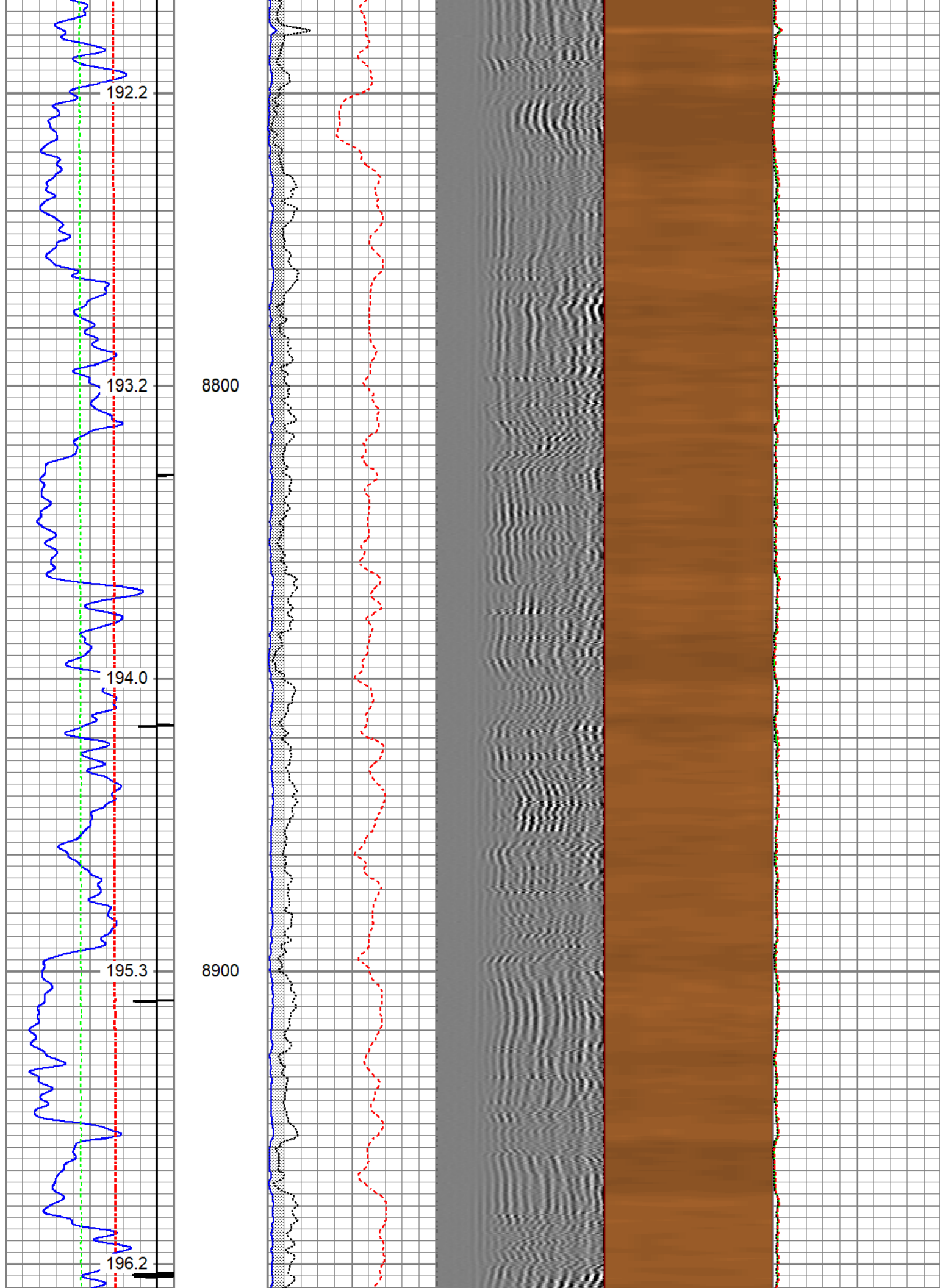


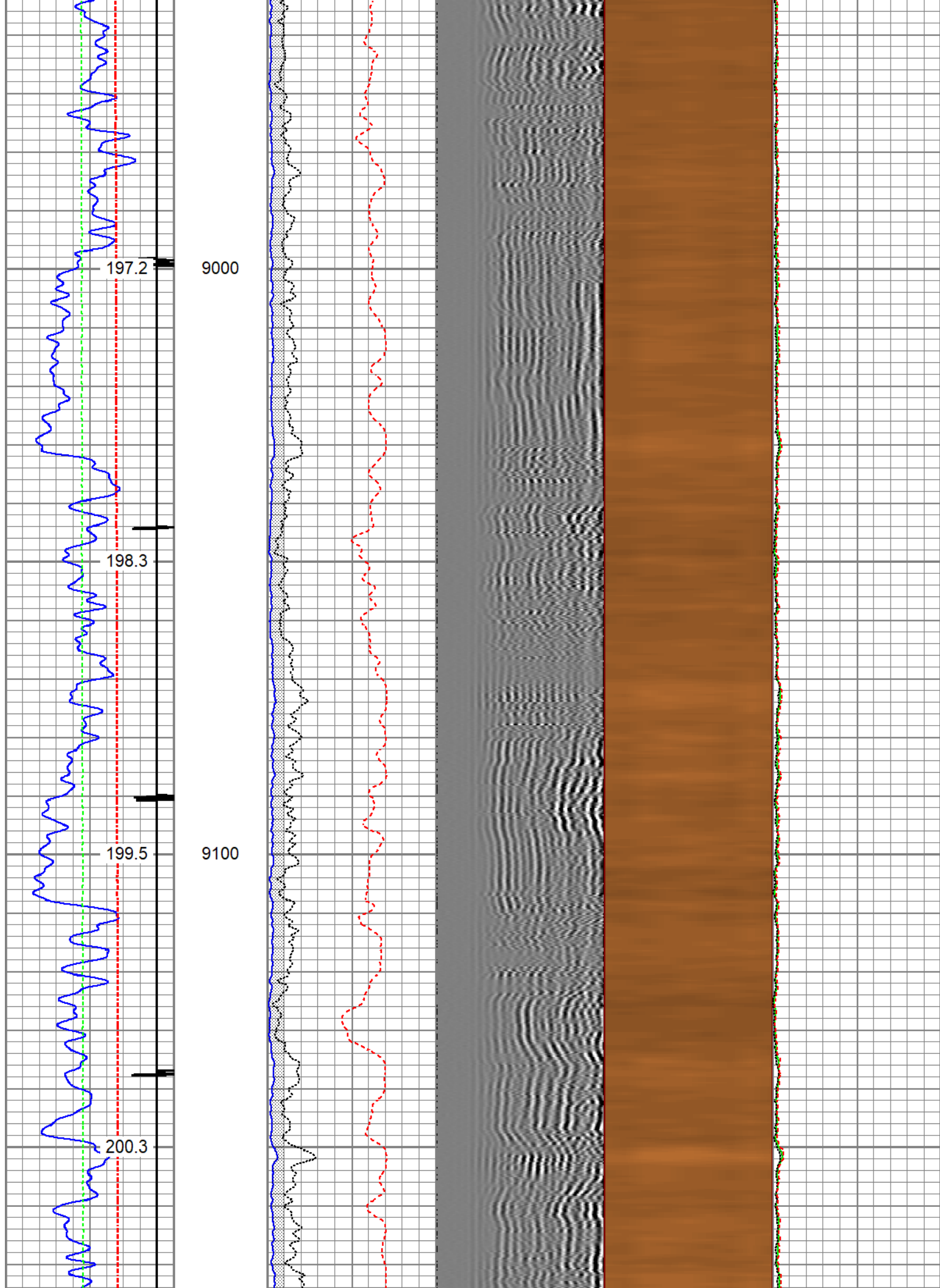


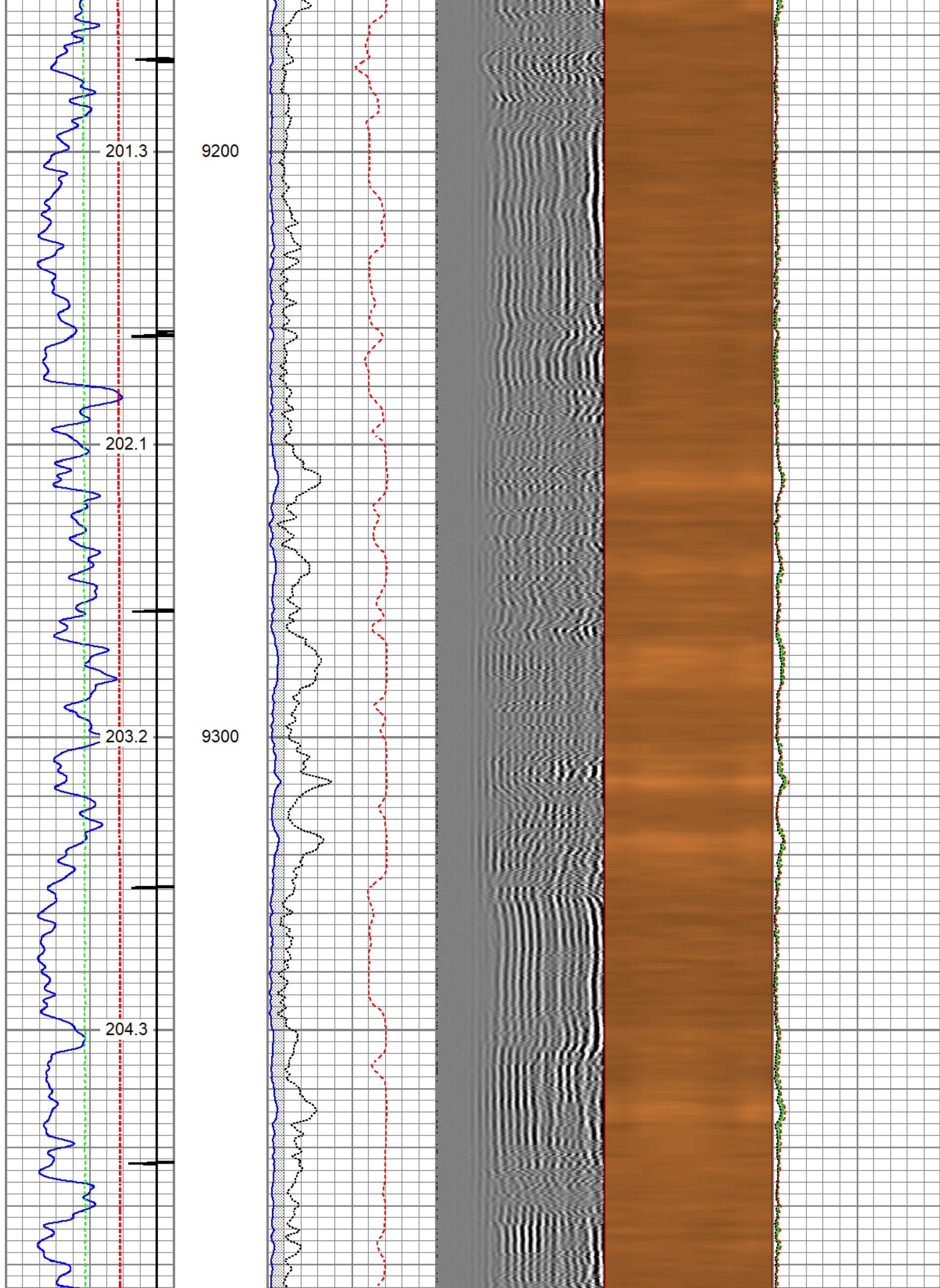


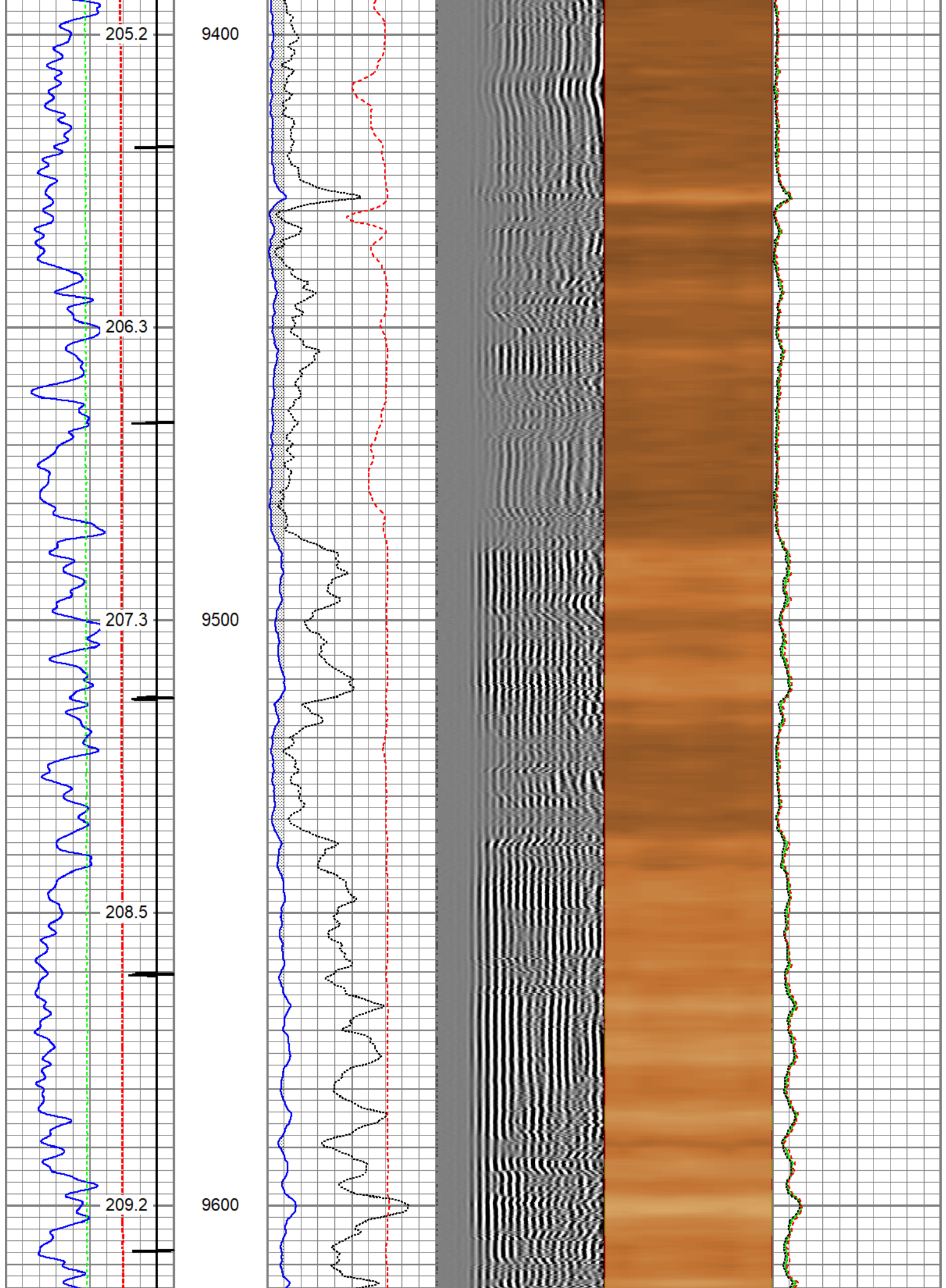


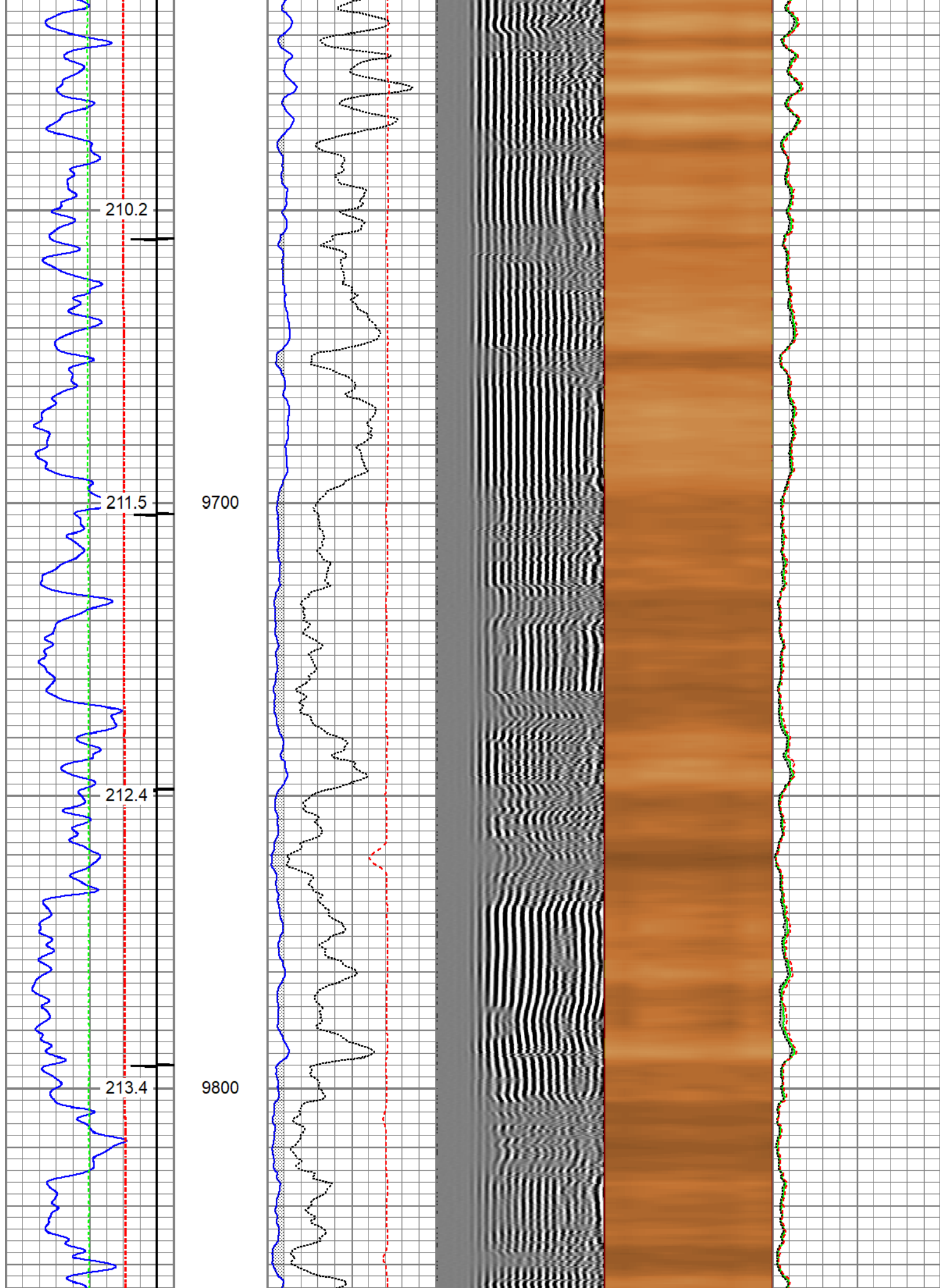


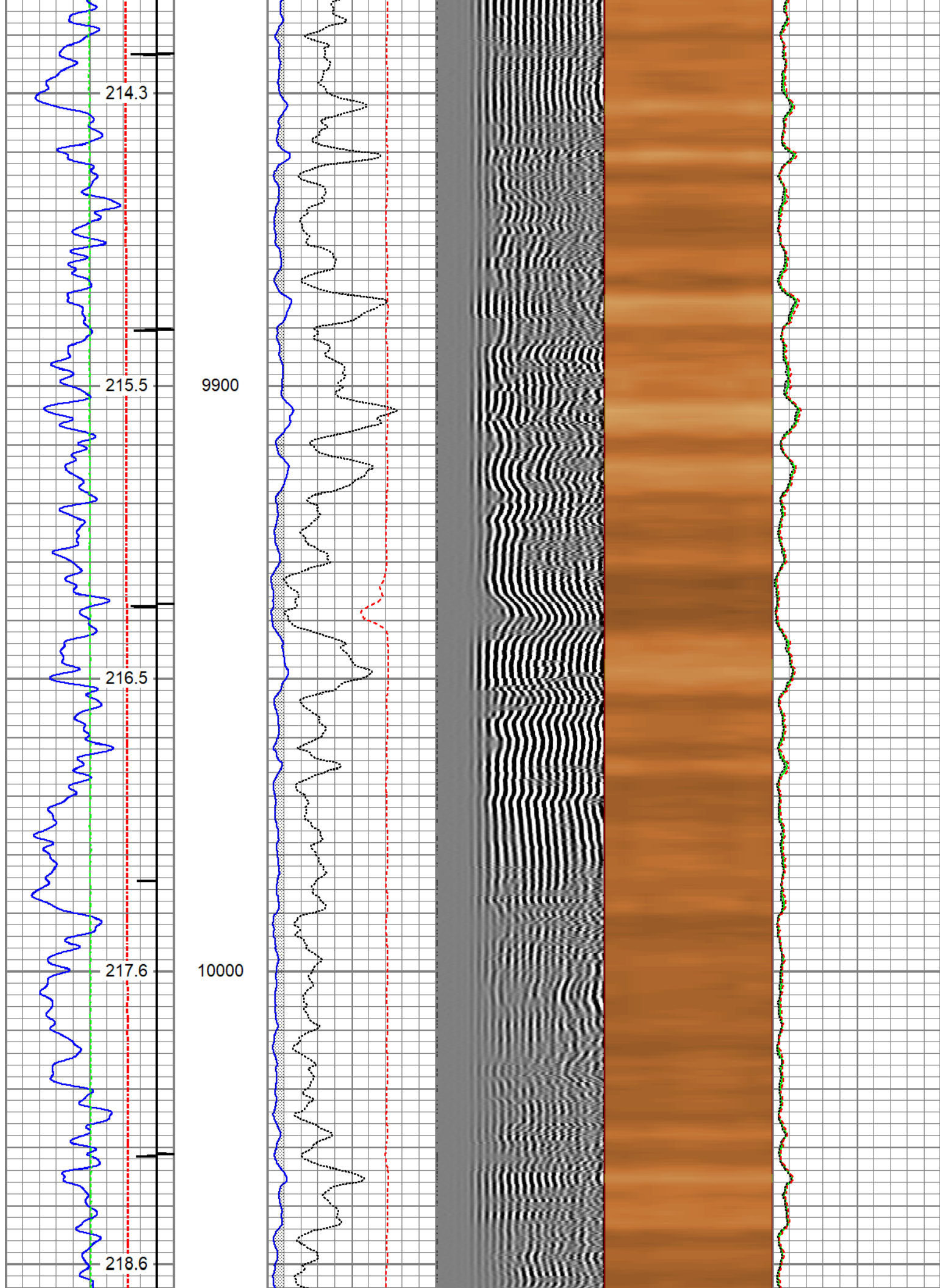


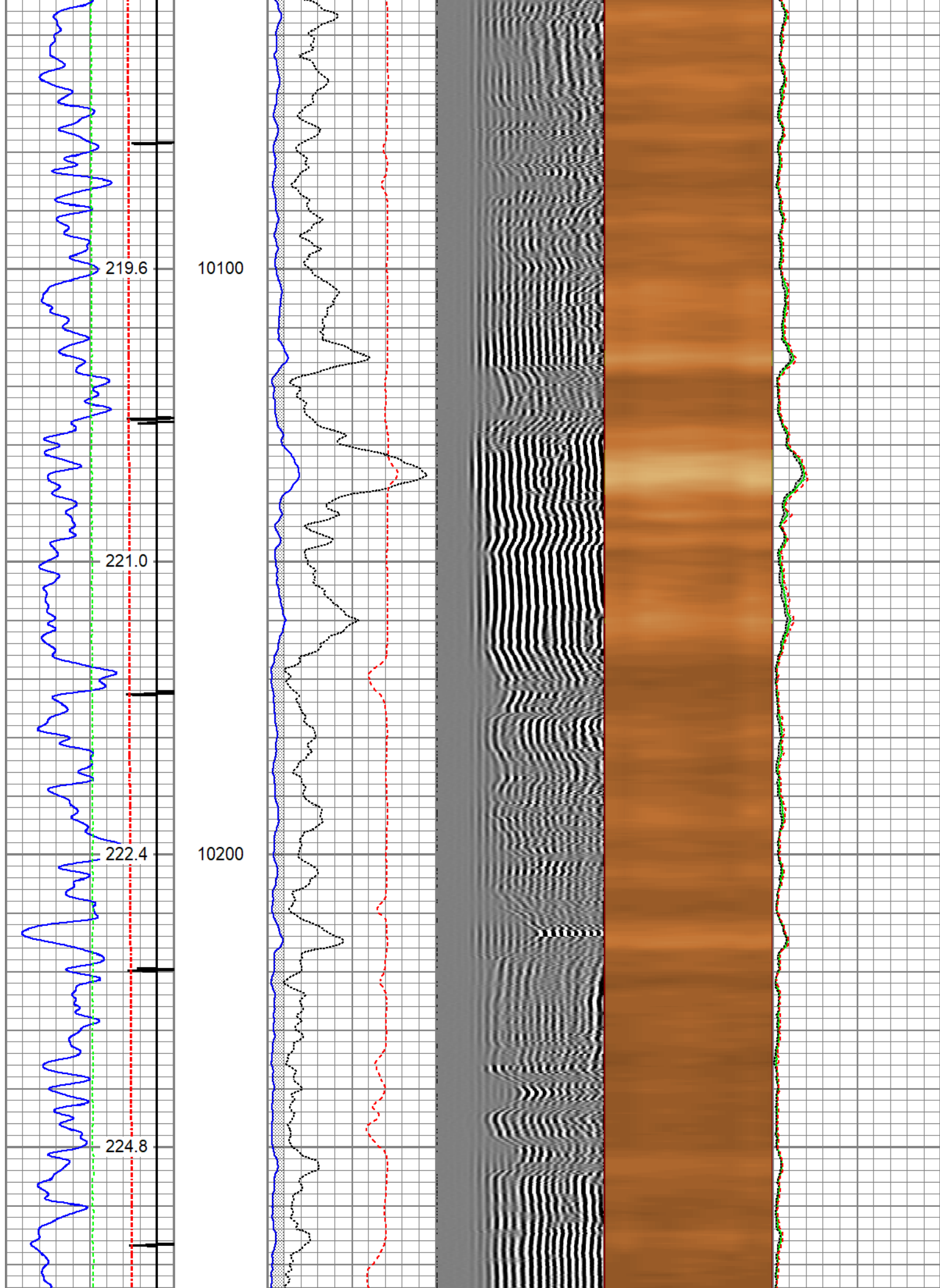


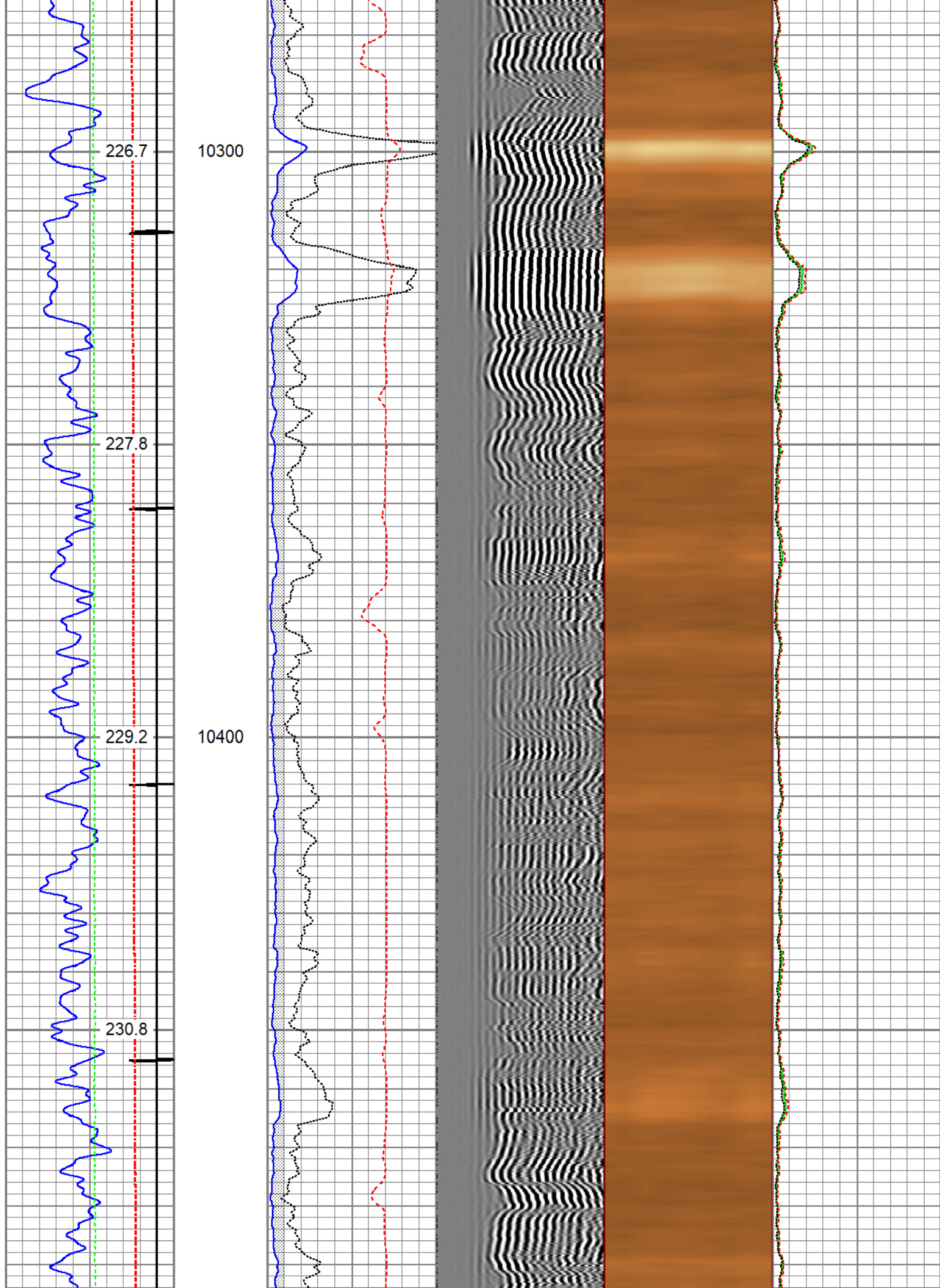


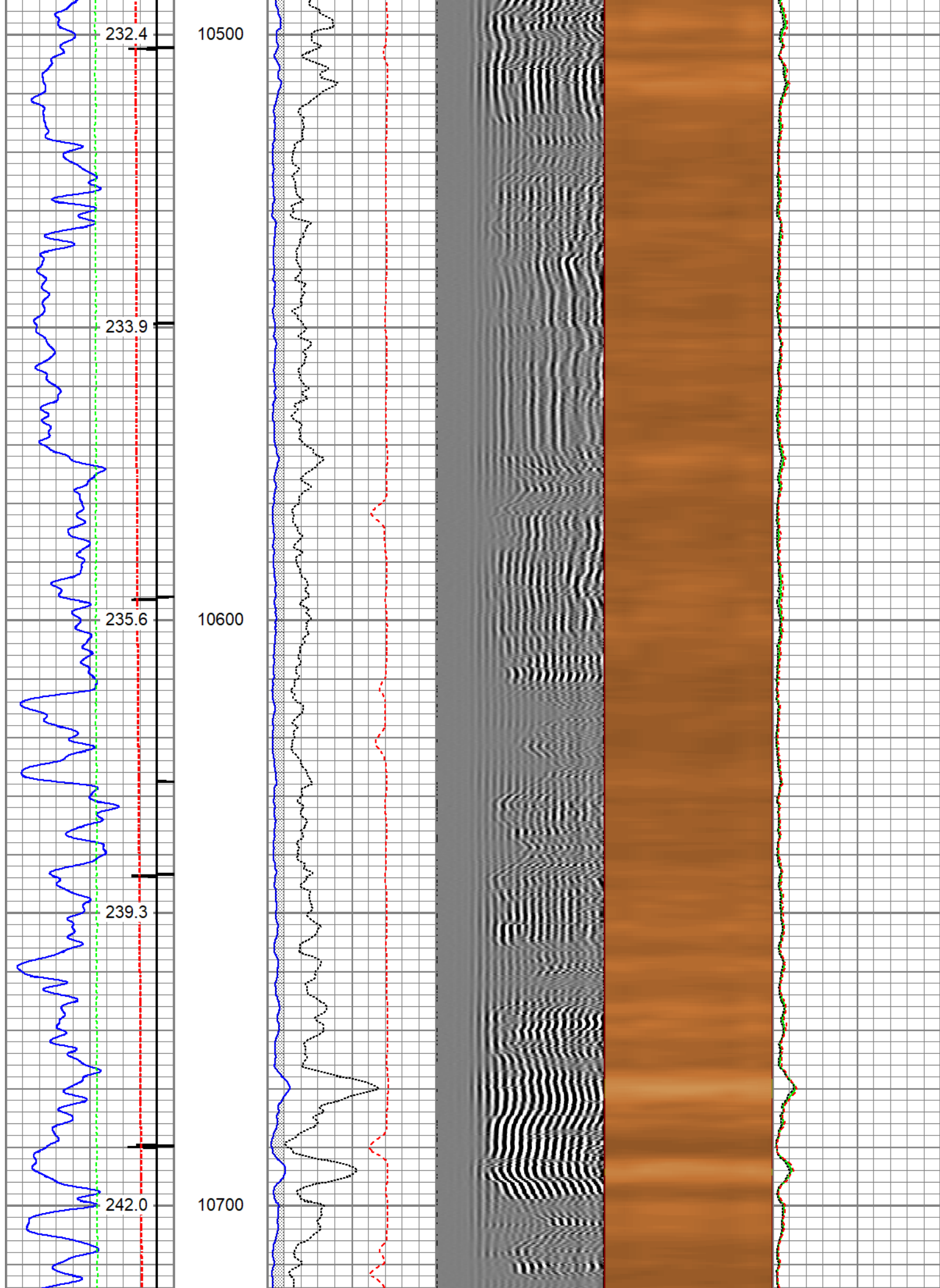


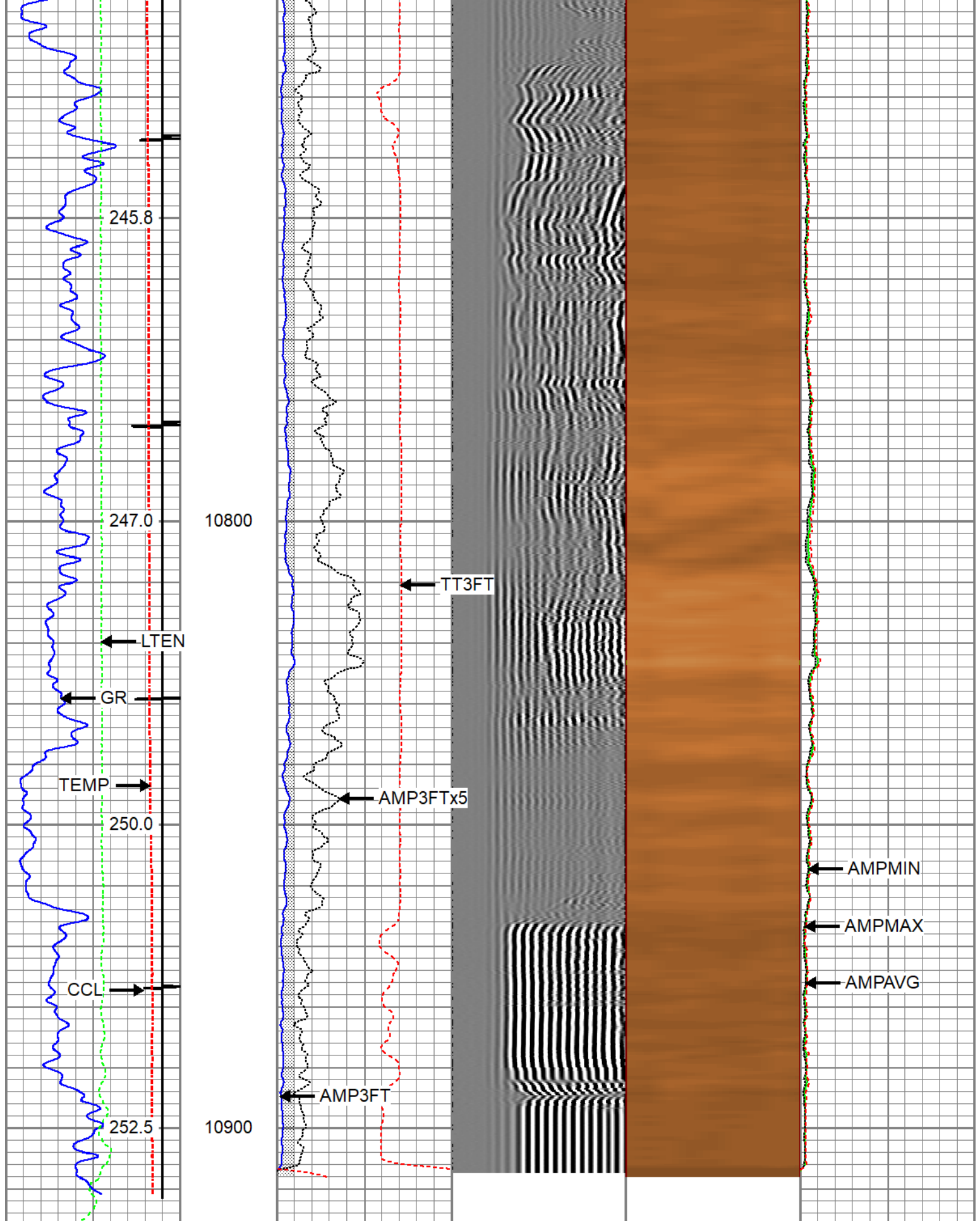












Gamma Ray (GAPI)	3' Amplitude (mV)	5' Variable Density Log (usec)	Sector Map	Average Amplitude (mV)
0 200	0 100	200 1200	0 120	0 120
Line Tension (lb)	3' Amplitude x 5 (mV)			Minimum Amplitude (mV)
0 4000	0 20			0 120

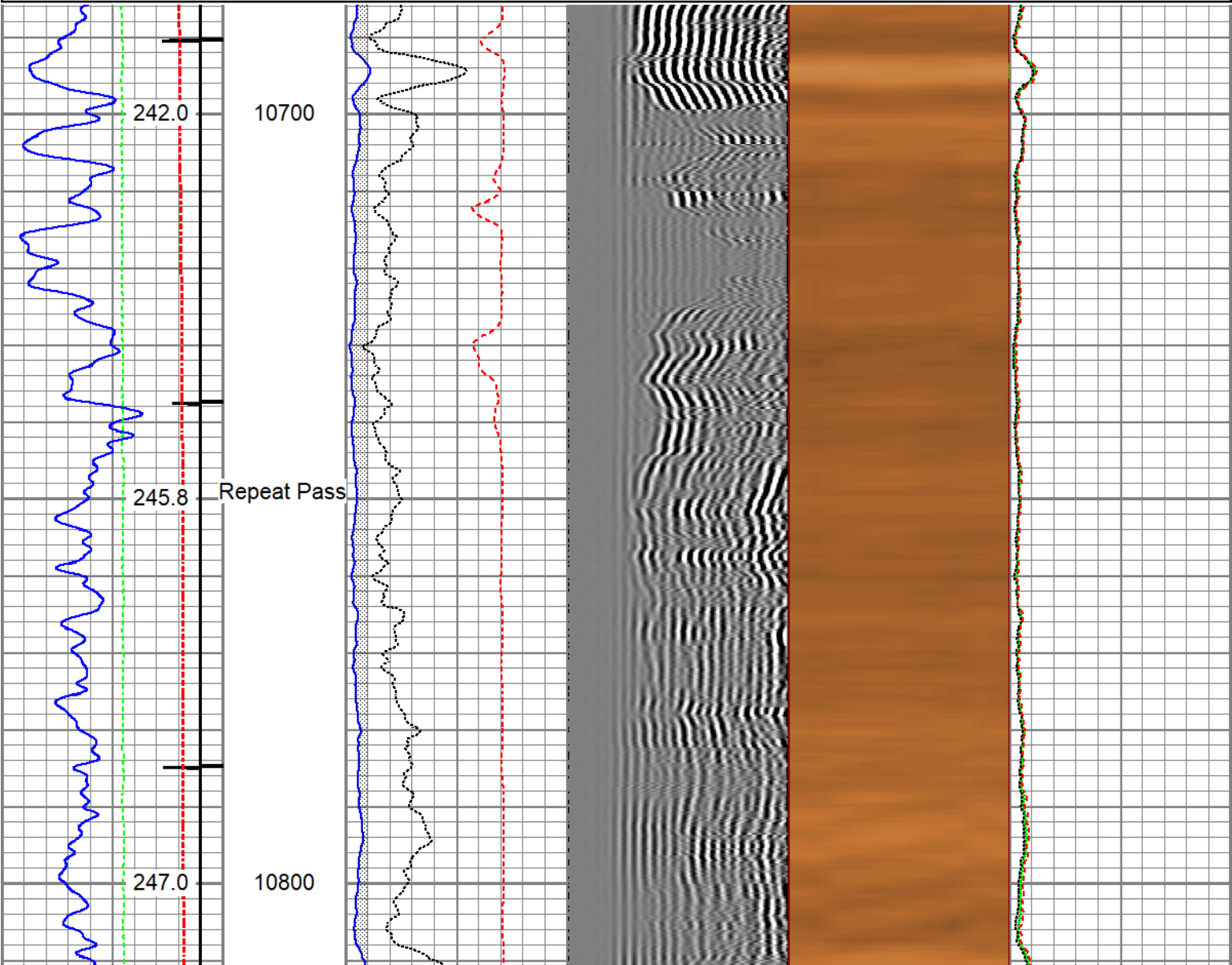
-9	CCL	1	3' Travel Time	Maximum Amplitude
0	Temp (degF)	300	650 (usec)	150
				0 120

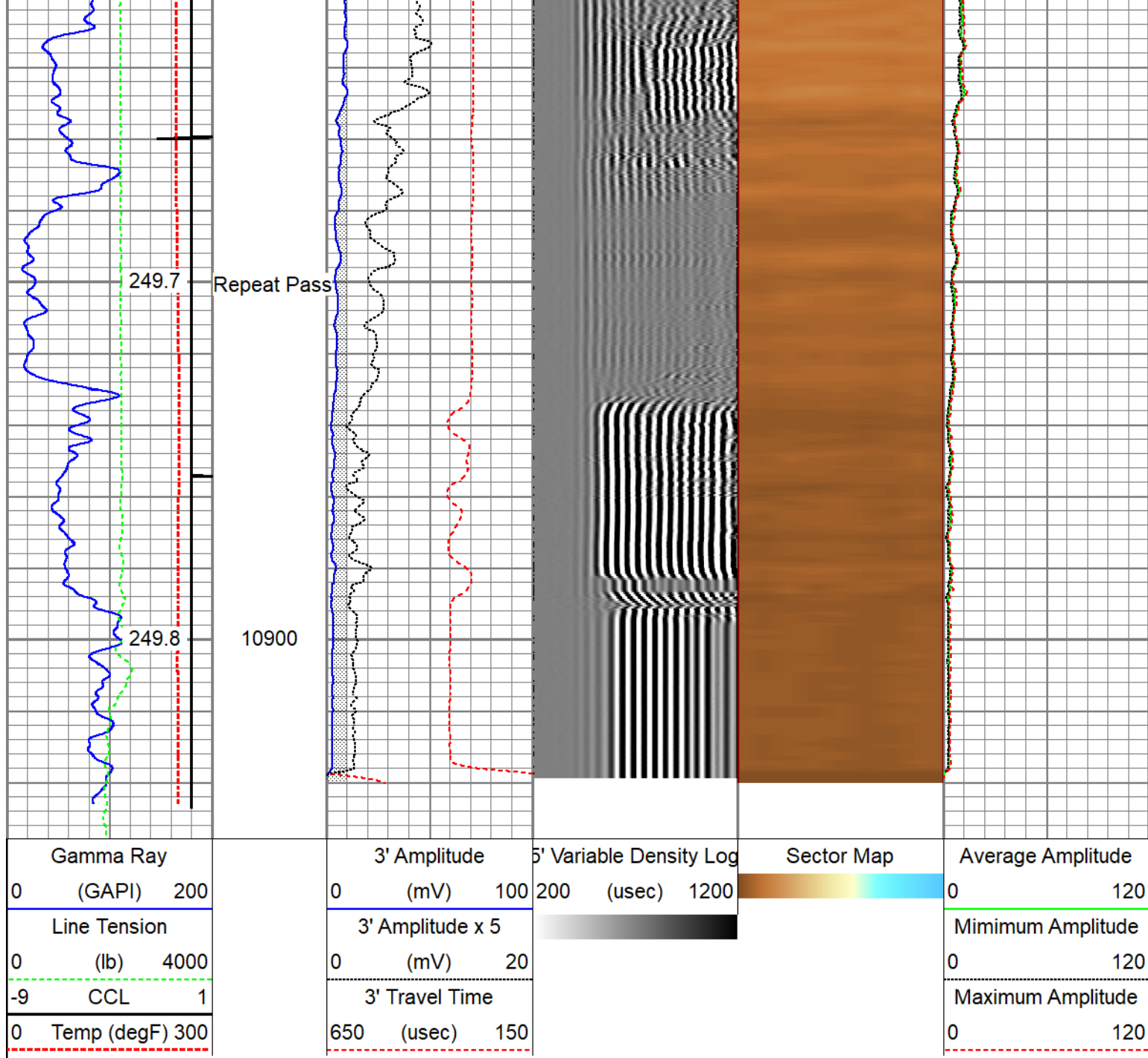


Repeat Pass 5" = 100'

Database File	tep_wmc fed 431-20_rcbl_1-4-2023.db
Dataset Pathname	repeat
Presentation Format	twgrcbl
Dataset Creation	Wed Jan 04 09:54:09 2023
Charted by	Depth in Feet scaled 1:240

Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 200	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Minimum Amplitude
0 (lb) 4000	0 (mV) 20			0 120
-9 CCL 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120





Calibration Report		
Database File	tep_wmc fed 431-20_rcbl_1-4-2023.db	
Dataset Pathname	main	
Dataset Creation	Wed Jan 04 09:58:37 2023	
Gamma Ray Calibration Report		
Serial Number:	FW1311-93	
Tool Model:	GCT275-0000	
Performed:	Thu Dec 29 18:15:38 2022	
Calibrator Value:	168.0	GAPI
Background Reading:	69.0	cps
Calibrator Reading:	299.3	cps
Sensitivity:	0.7294	GAPI/cps
Segmented Cement Bond Log Calibration Report		

Serial Number:FW1312-30

Tool Model:Probe275acc

Calibration Casing Diameter:4.500in

Calibration Depth:278.924ft

Master Calibration, performed Tue Jan 3 07:14:00 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.511	0.000	81.196	147.744	-0.671
CAL	0.003	0.764				
5'	0.013	0.470	0.000	81.196	189.928	-2.321
SUM						
S1	0.005	0.516	0.000	100.000	185.992	-1.072
S2	0.007	0.547	0.000	100.000	179.809	-1.220
S3	0.004	0.492	0.000	100.000	179.337	-0.921
S4	0.005	0.532	0.000	100.000	175.506	-0.867
S5	0.004	0.528	0.000	100.000	172.552	-0.669
S6	0.005	0.528	0.000	100.000	172.189	-0.946
S7	0.006	0.551	0.000	100.000	176.780	-1.127
S8	0.004	0.486	0.000	100.000	186.883	-0.747

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.764	1.000	0.000

Air Zero Calibration, performed Mon Jan 2 11:33:52 2023:

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


Inclinometer Calibration Report

Performed:	Thu Jul 28 15:46:49 2022				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-931.00	904.00	-1.00	1.00	gee
Y Accelerometer	-899.00	884.00	-1.00	1.00	gee

gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GCT_FMWR	13.85					
mSec_Count	13.85					
RBT_Status	13.85					
Error_Ct	13.85					
			SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
			RBT8acc-Probe275acc (FW1312-30) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
WVFS8	9.35					
WVFS7	9.35					
WVFS6	9.35					
WVFS5	9.35					
WVFS4	9.35					
WVFS3	9.35					
WVFS2	9.35					
WVFS1	9.35					
WVF3FT	9.35					
WVF5FT	8.35					
RBT_ACCZ	5.10					
RBT_ACCY	5.10					
RBT_ACCX	5.10					
GCT_HV	5.10					
WVFSYNC	5.10					
WVFCAL	5.10					
CCL\$2	4.14					
CCL\$1	4.14					
GCT_Temp	3.59					
GR	2.72					
			SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
			GC-GCT275-0000 (FW1311-93) Probe 2.75" Gamma Ray - CCL w/ Temp	4.77	2.75	55.00
GCT_IntTemp	2.00					
			Plus-FA108-0000	0.33	1.38	1.00

			1.38" Bull Plug	0.00	1.00	1.00
Dataset: tep_wmc fed 431-20_rcbl_1-4-2023.db: field/well/run1/main Total length: 13.85 ft Total weight: 186.00 lb O.D.: 3.25 in						

Company	TEP Rocky Mountain LLC				
Well	Federal WMC 431-20				
Field	Rulison				
County	Garfield		State	Colorado	
			Radial Cement Bond Gamma Ray Casing Collar Log		