



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC									
Well Federal WMC 332-20									
Field Rulison									
County Garfield									
State Colorado									
Location: API # : 05-045-24491									
Other Services									
SEC 17 TWP 7S RGE 93W									
Elevation									
Permanent Datum Ground Level Elevation 8869									
Log Measured From Kelly Bushing									
Drilling Measured From Kelly Bushing									
K.B. 8899 FT									
D.F. 8898 FT									
G.L. 8869 FT									
Date 04-JAN-2023									
Run Number One									
Depth Driller 11326 FT									
Depth Logger 11207 FT									
Bottom Logged Interval 11199 FT									
Top Log Interval Surface									
Open Hole Size 8.75"									
Type Fluid Water									
Density / Viscosity 8.34 Lb/Gal									
Max. Recorded Temp. 260°F									
Estimated Cement Top See Log									
Time Well Ready ROA									
Time Logger on Bottom 7:30									
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									

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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 @ 7095 FT - 7105 FT
Log ran with 0 PSI at surface

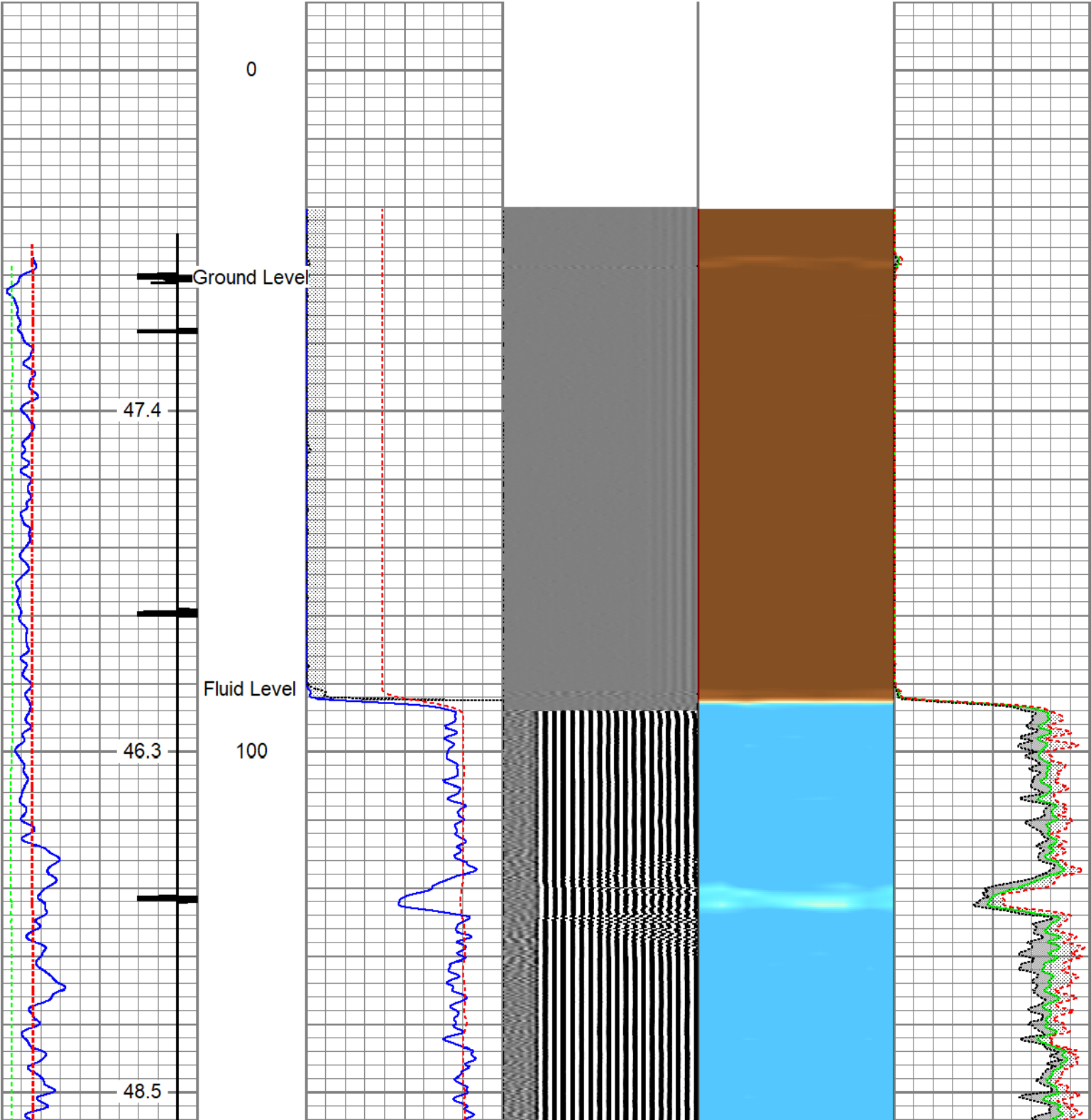
Thank you for choosing The Wireline Group!

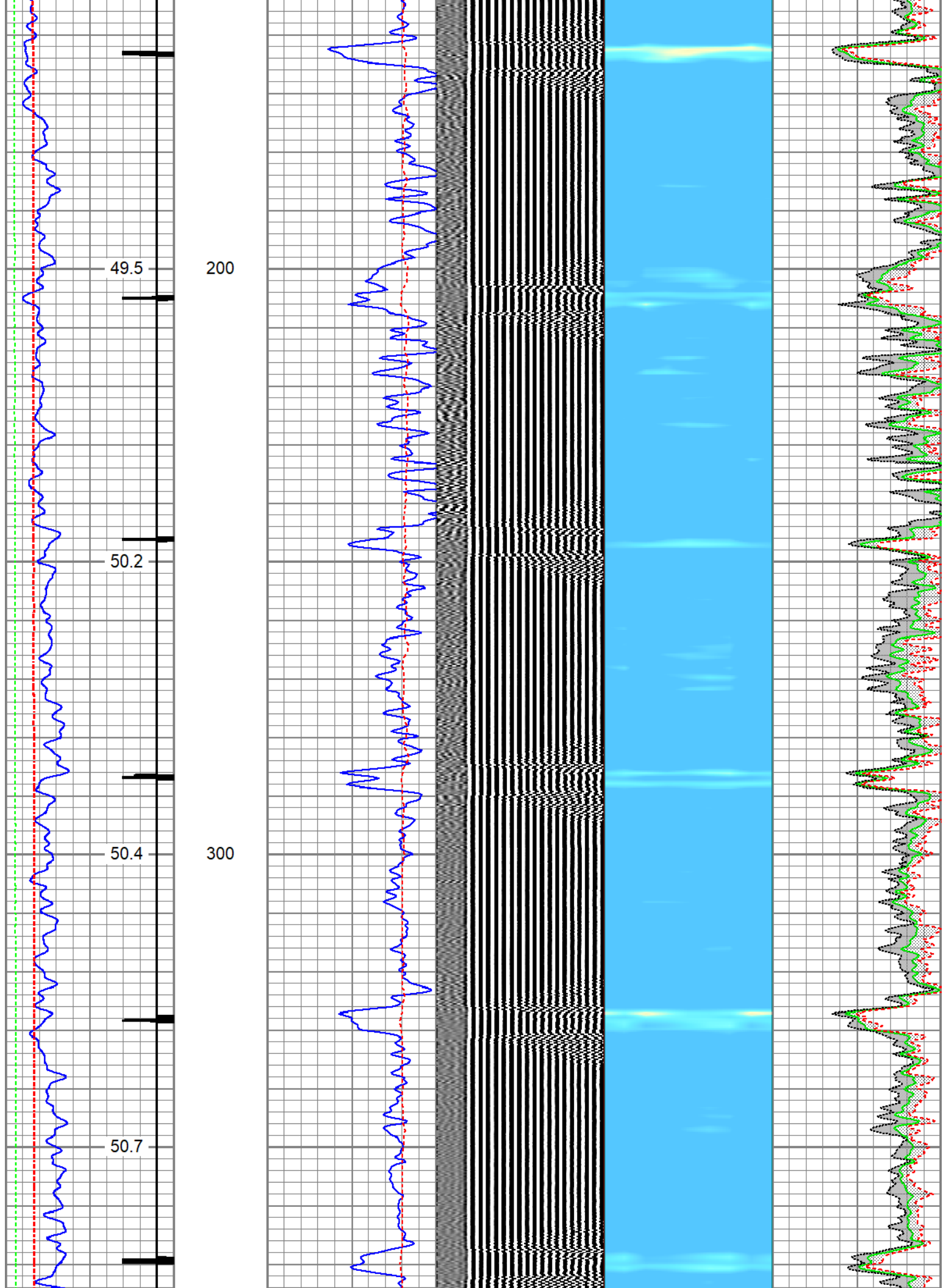


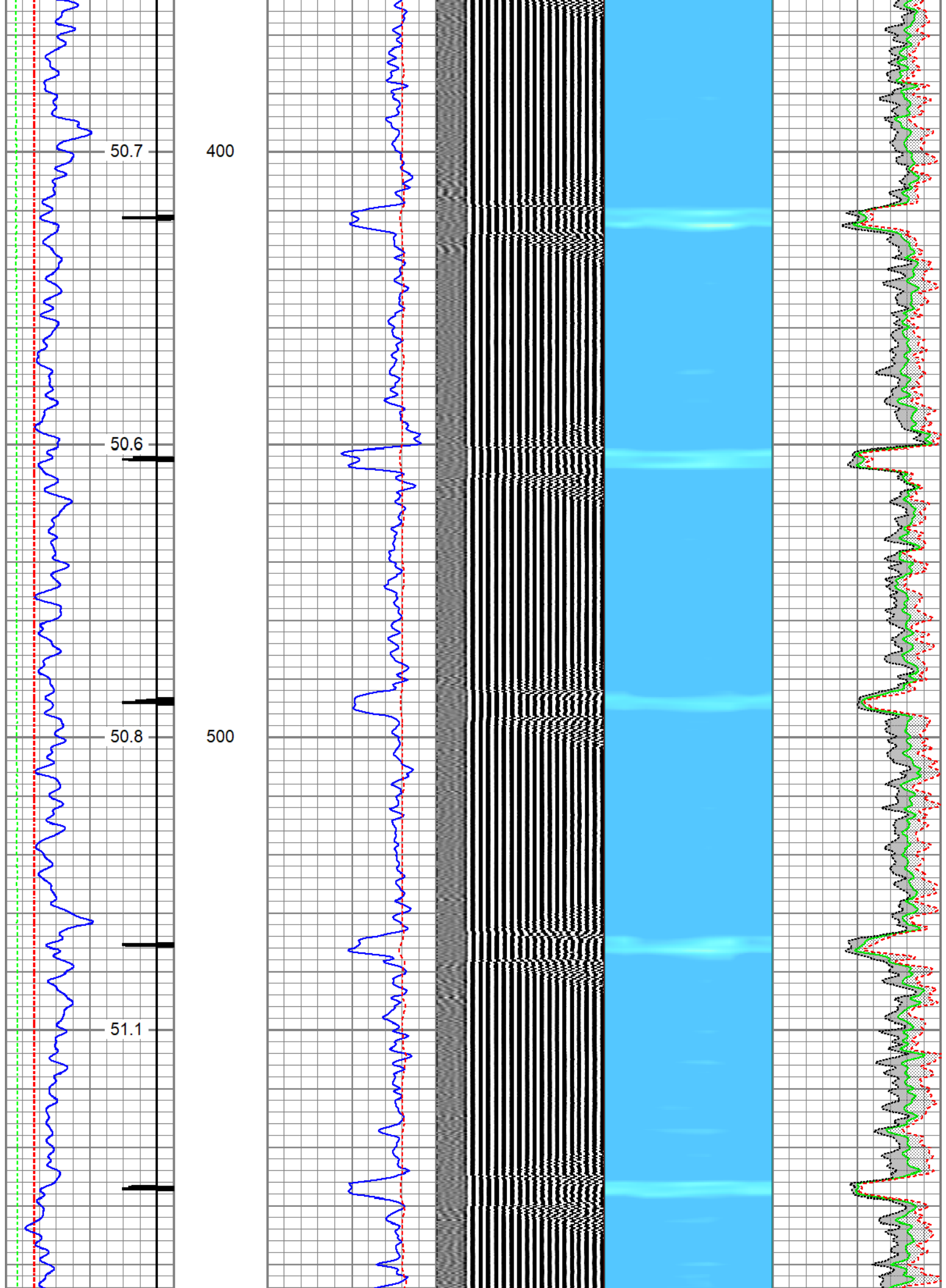
Main Pass 5" = 100'

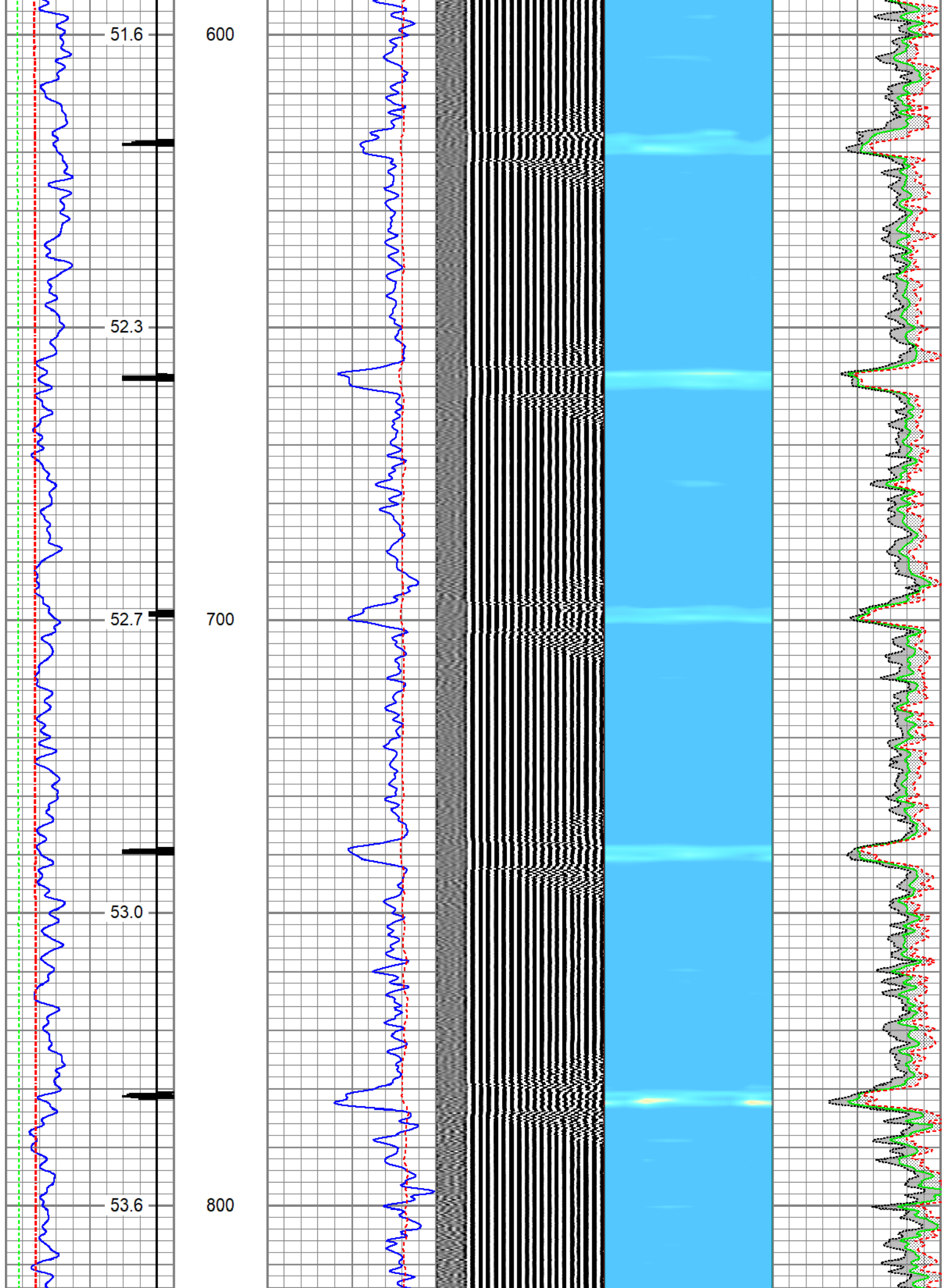
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Dataset Pathname	main
Presentation Format	twgrcbl
Dataset Creation	Wed Jan 04 07:34:23 2023
Charted by	Depth in Feet scaled 1:240

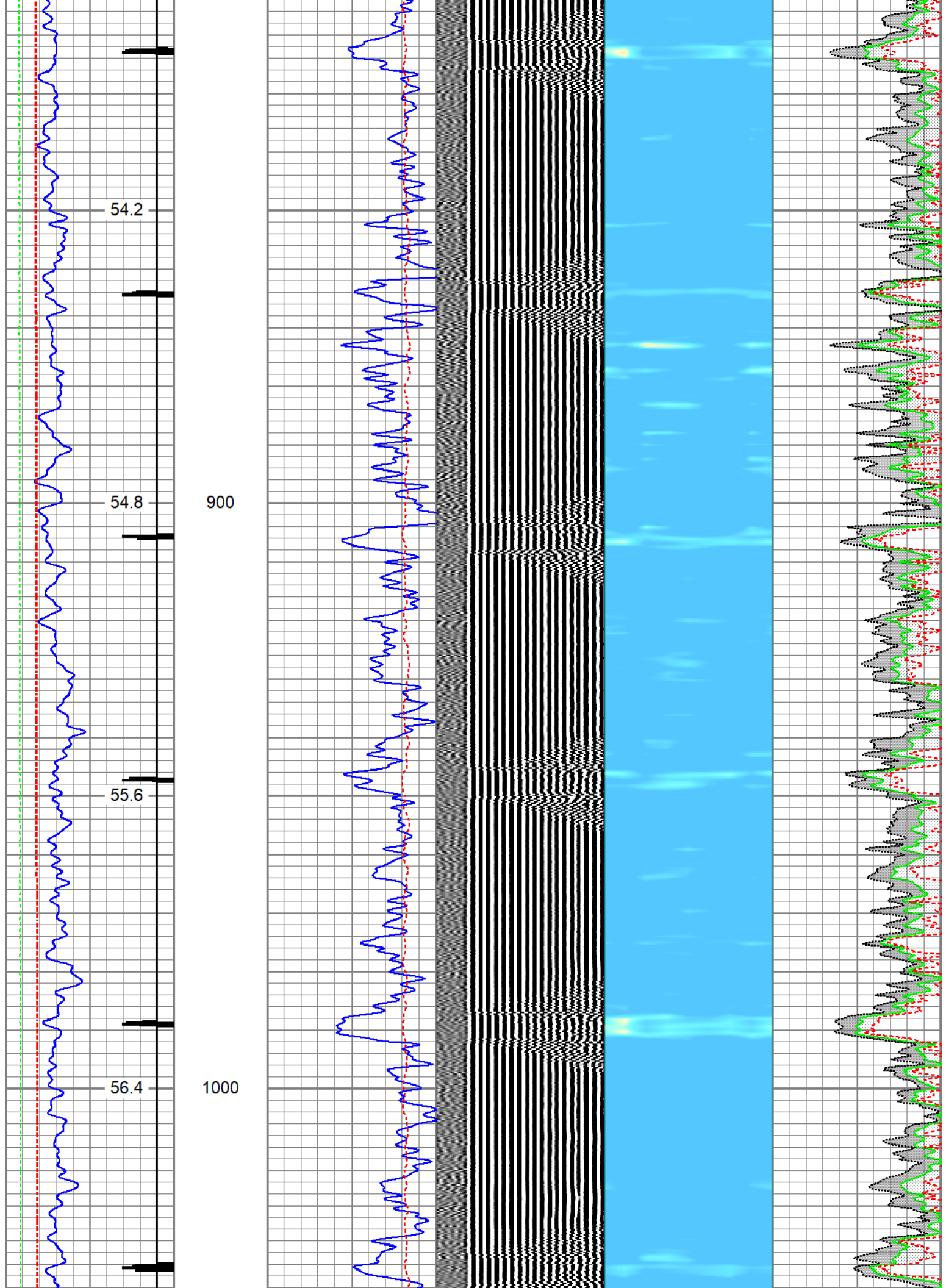
Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 200		0 (mV) 100	200 (usec) 1200		0 120
Line Tension		3' Amplitude x 5			Minimum Amplitude
0 (lb) 4000		0 (mV) 20			0 120
-9 CCL 1		3' Travel Time			Maximum Amplitude
0 Temp (degF) 300		650 (usec) 150			0 120

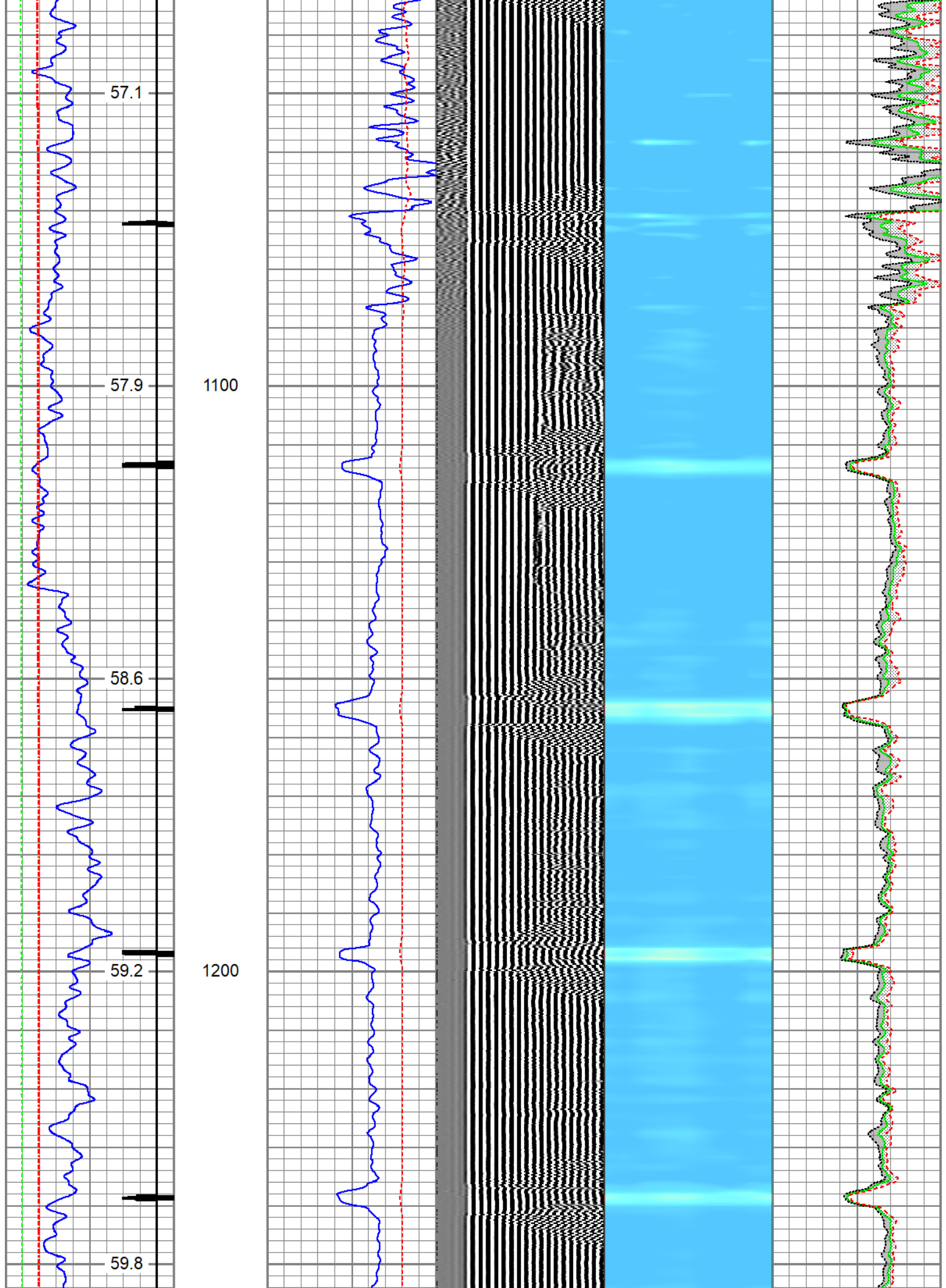


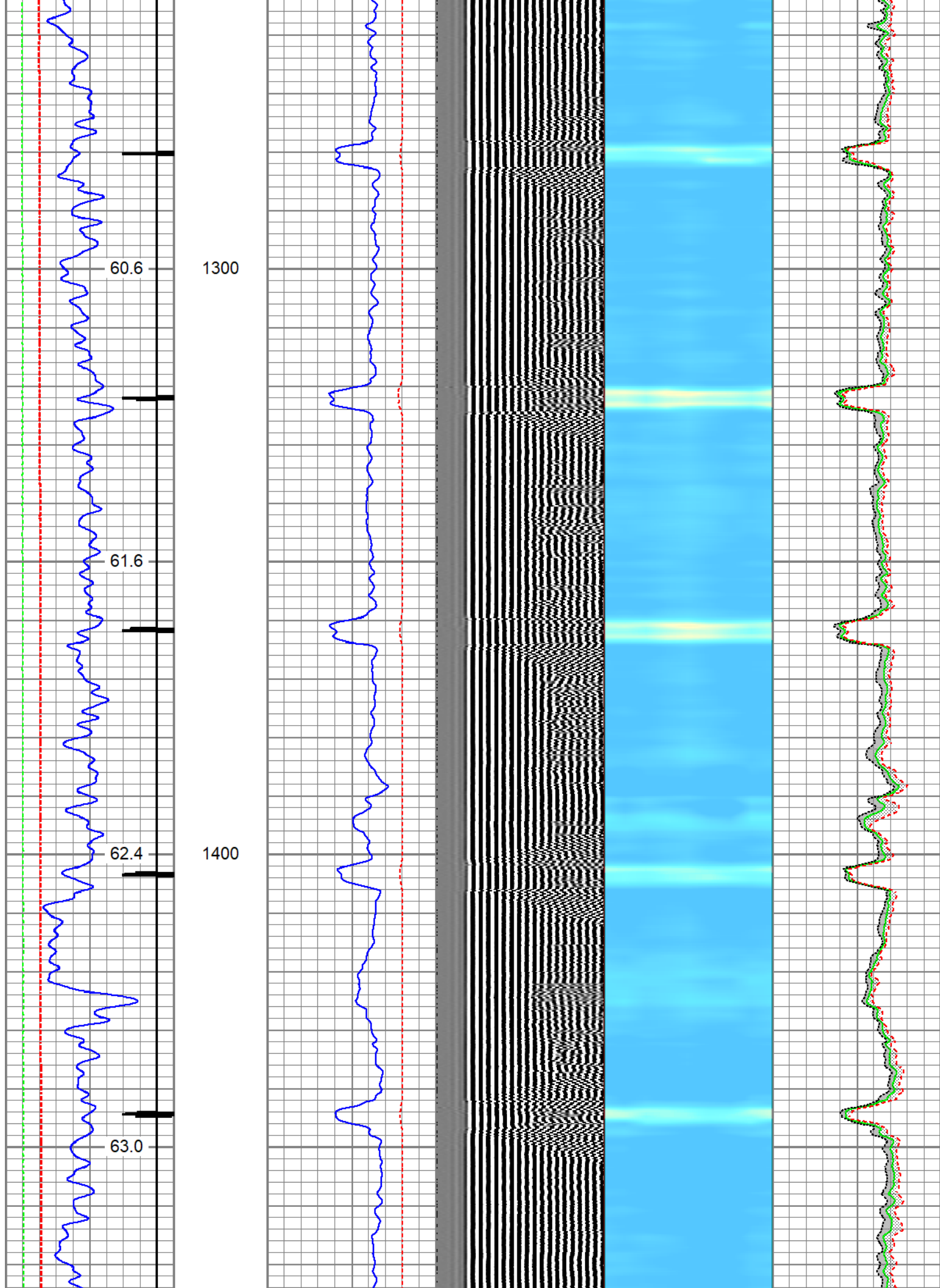


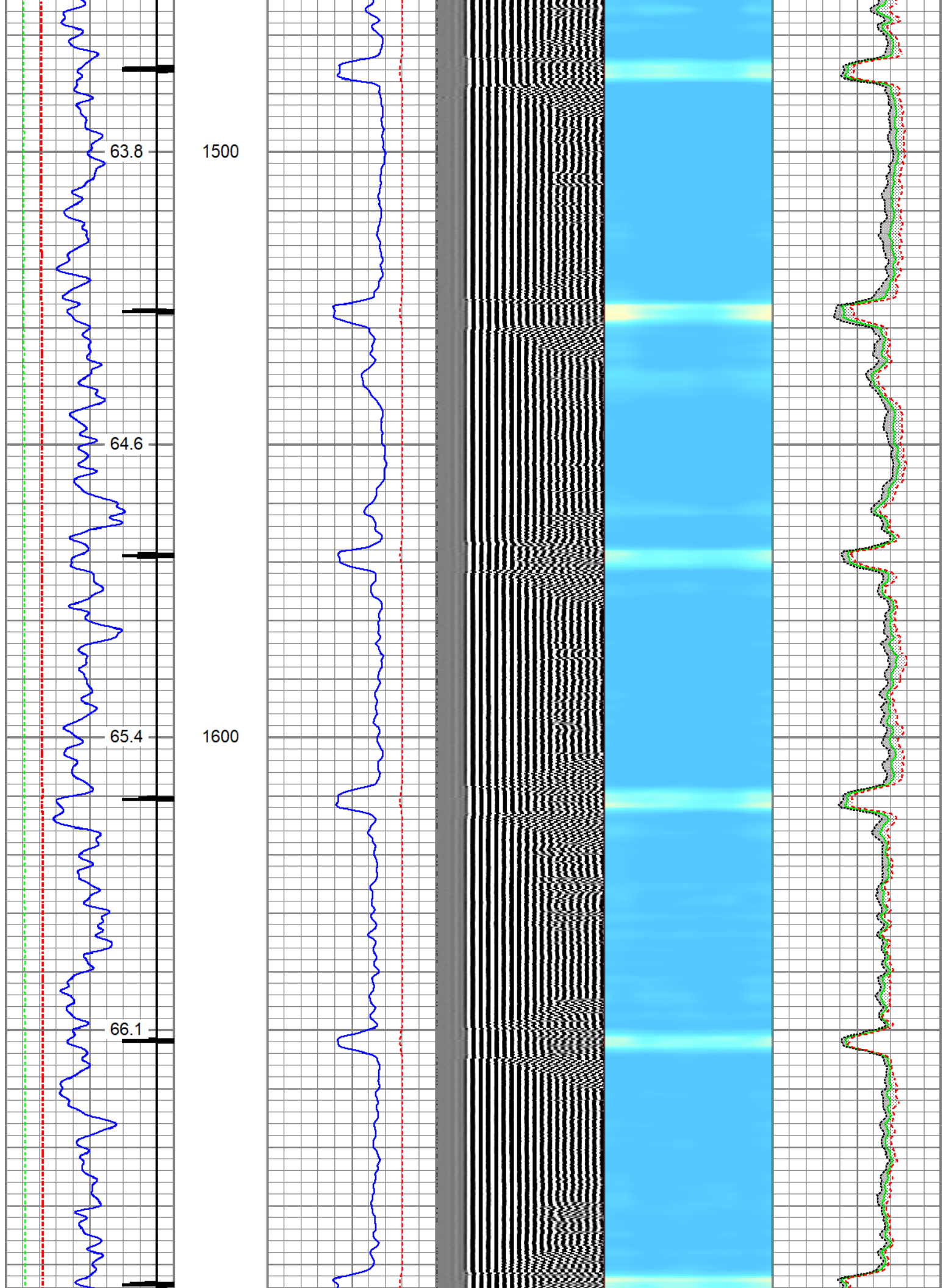


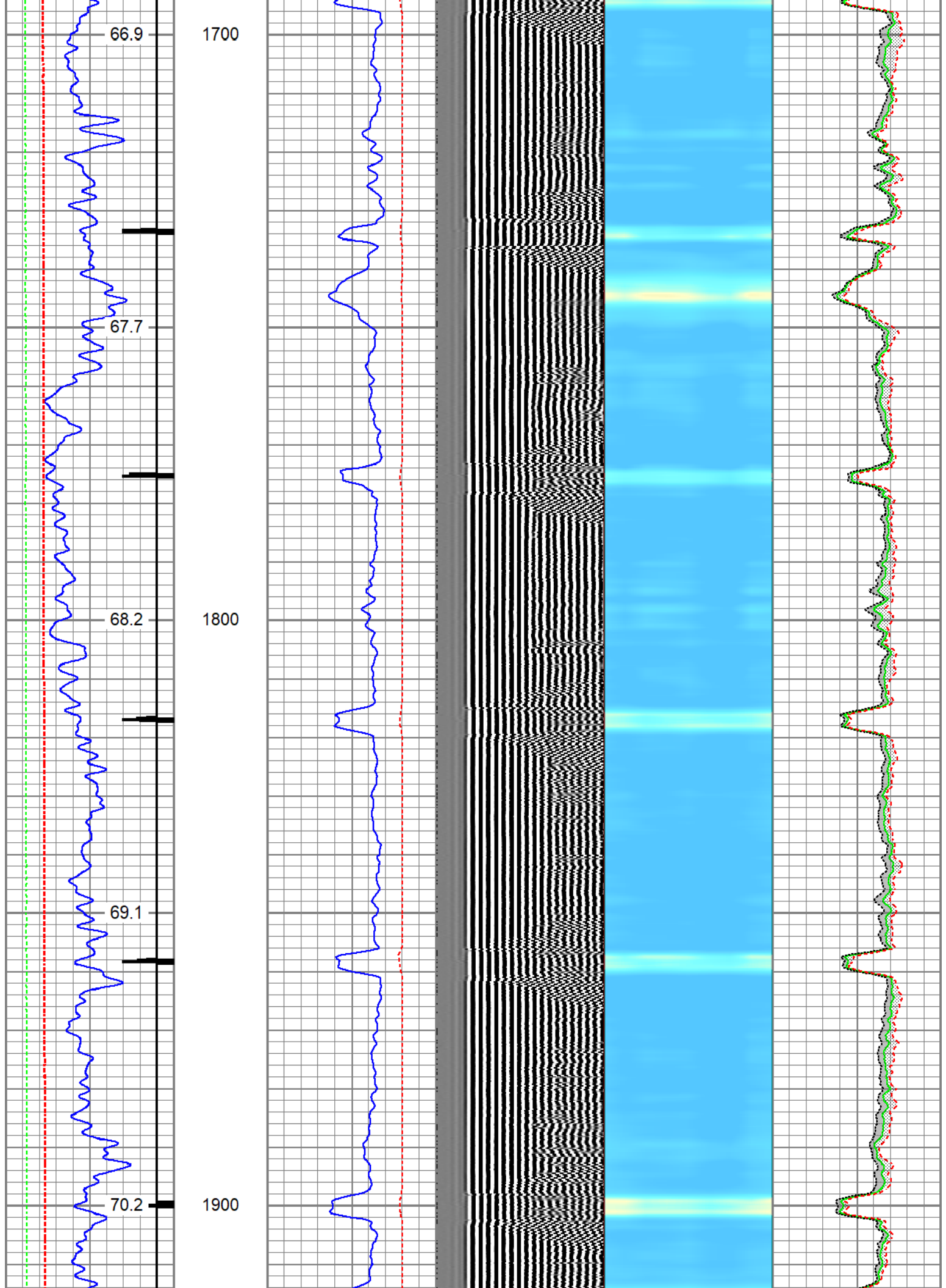


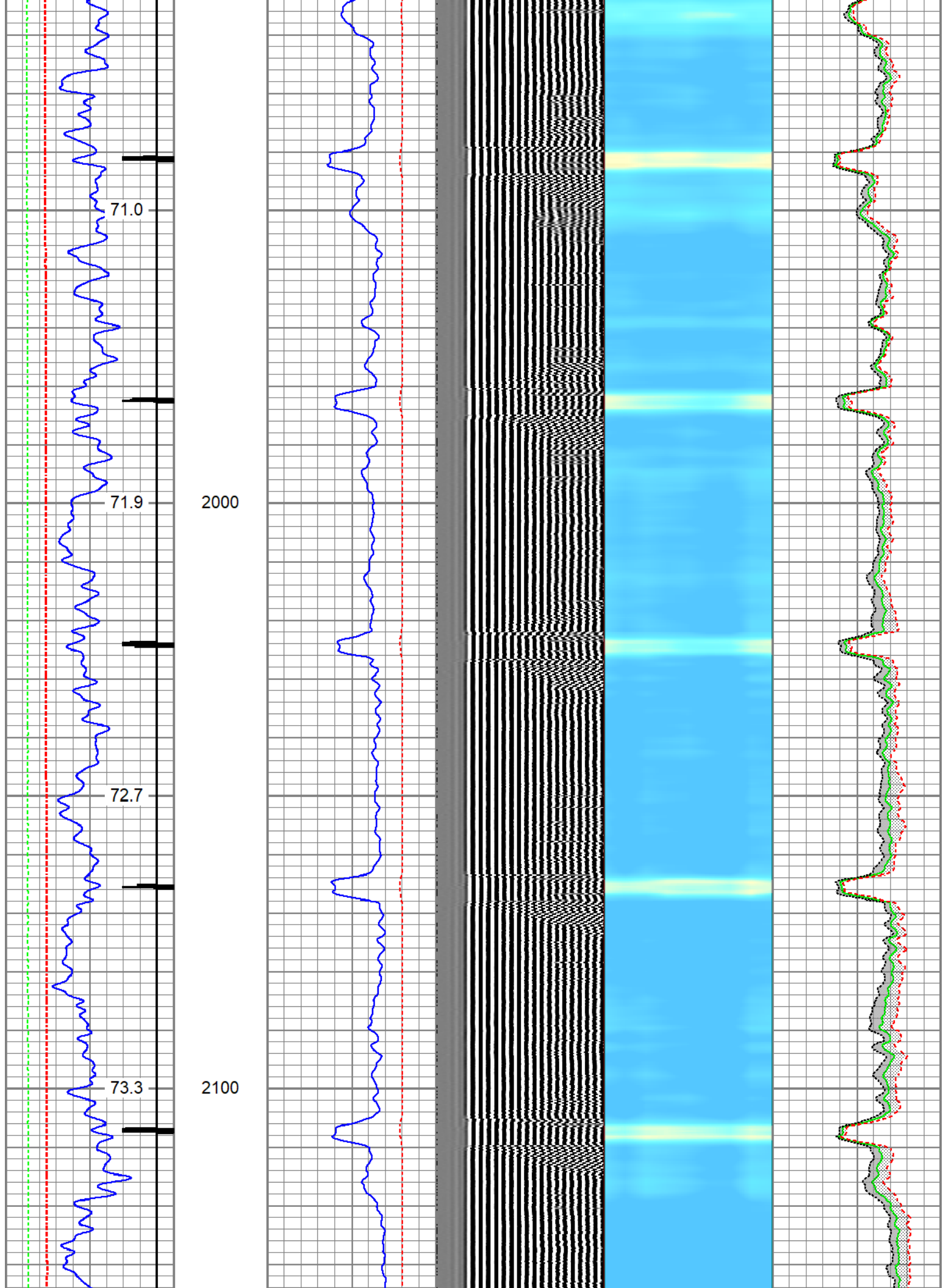


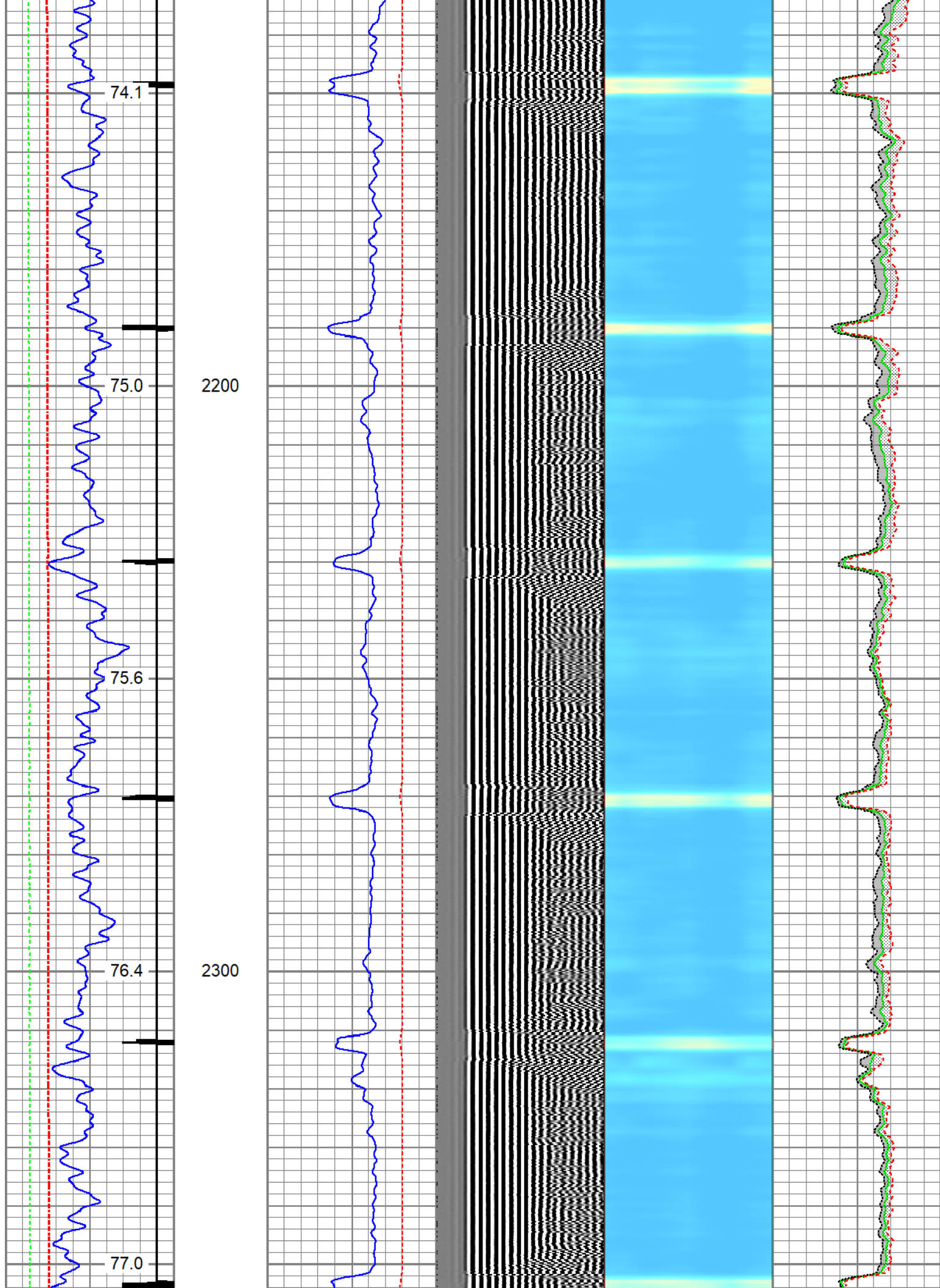


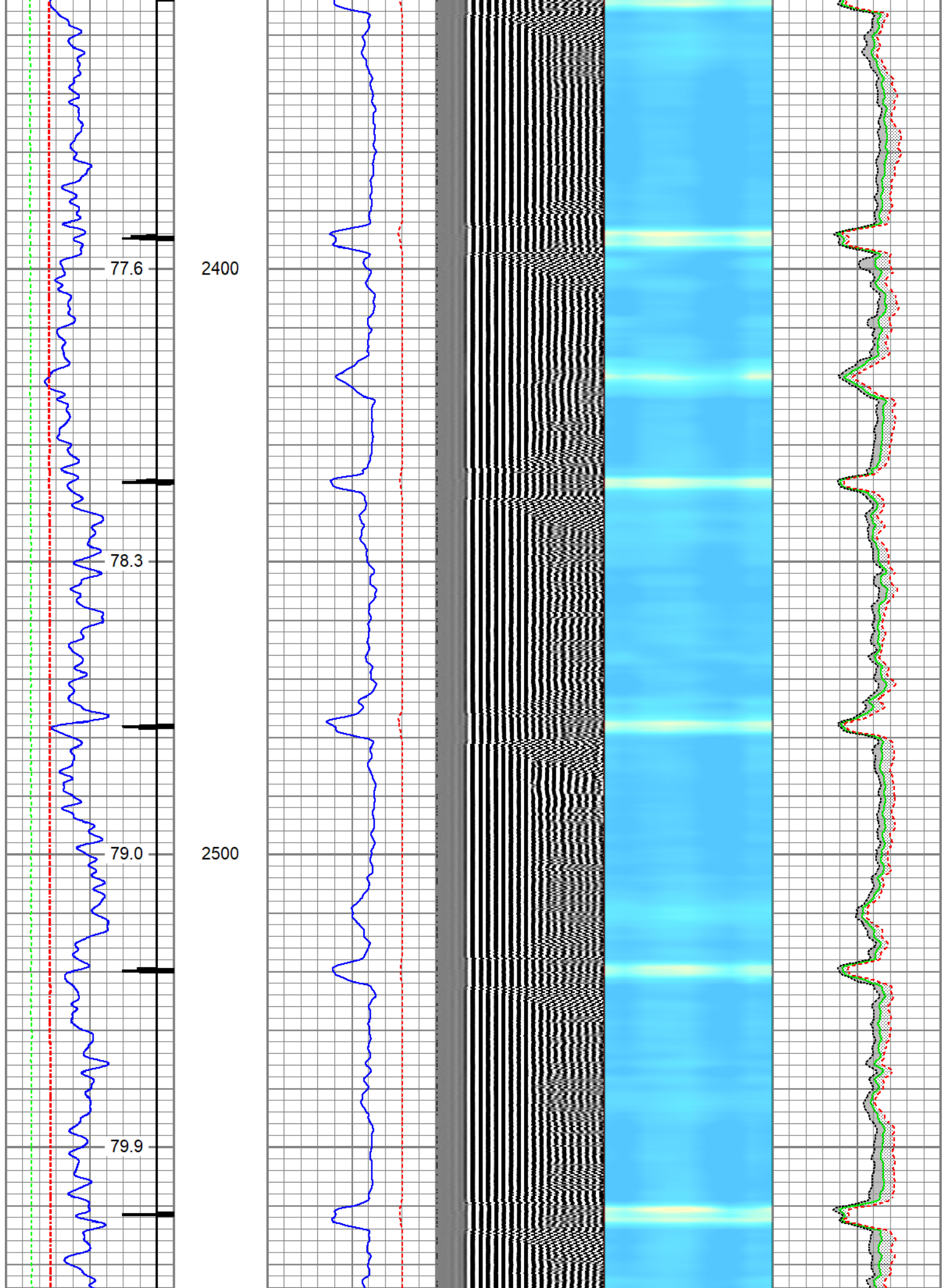


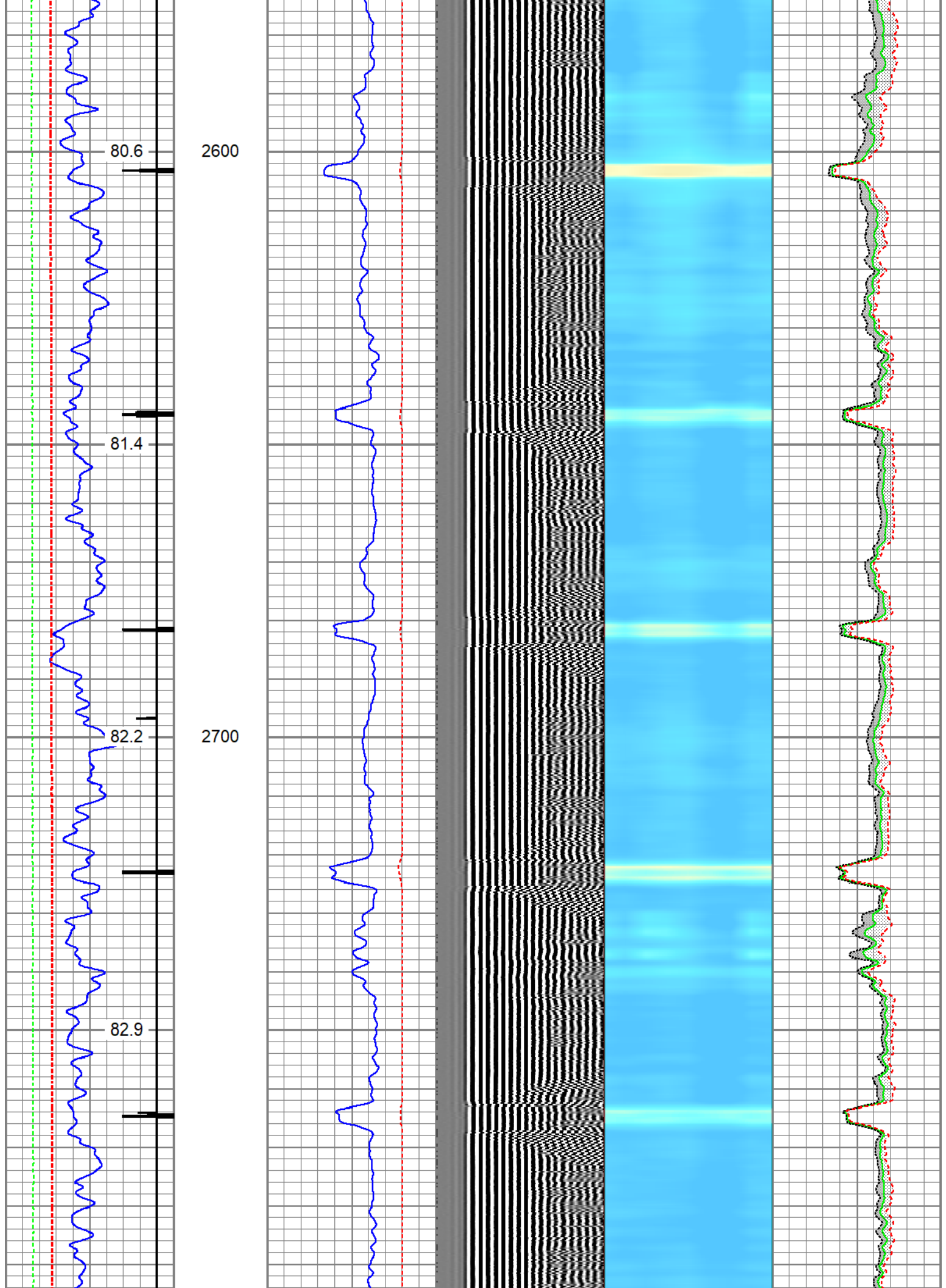


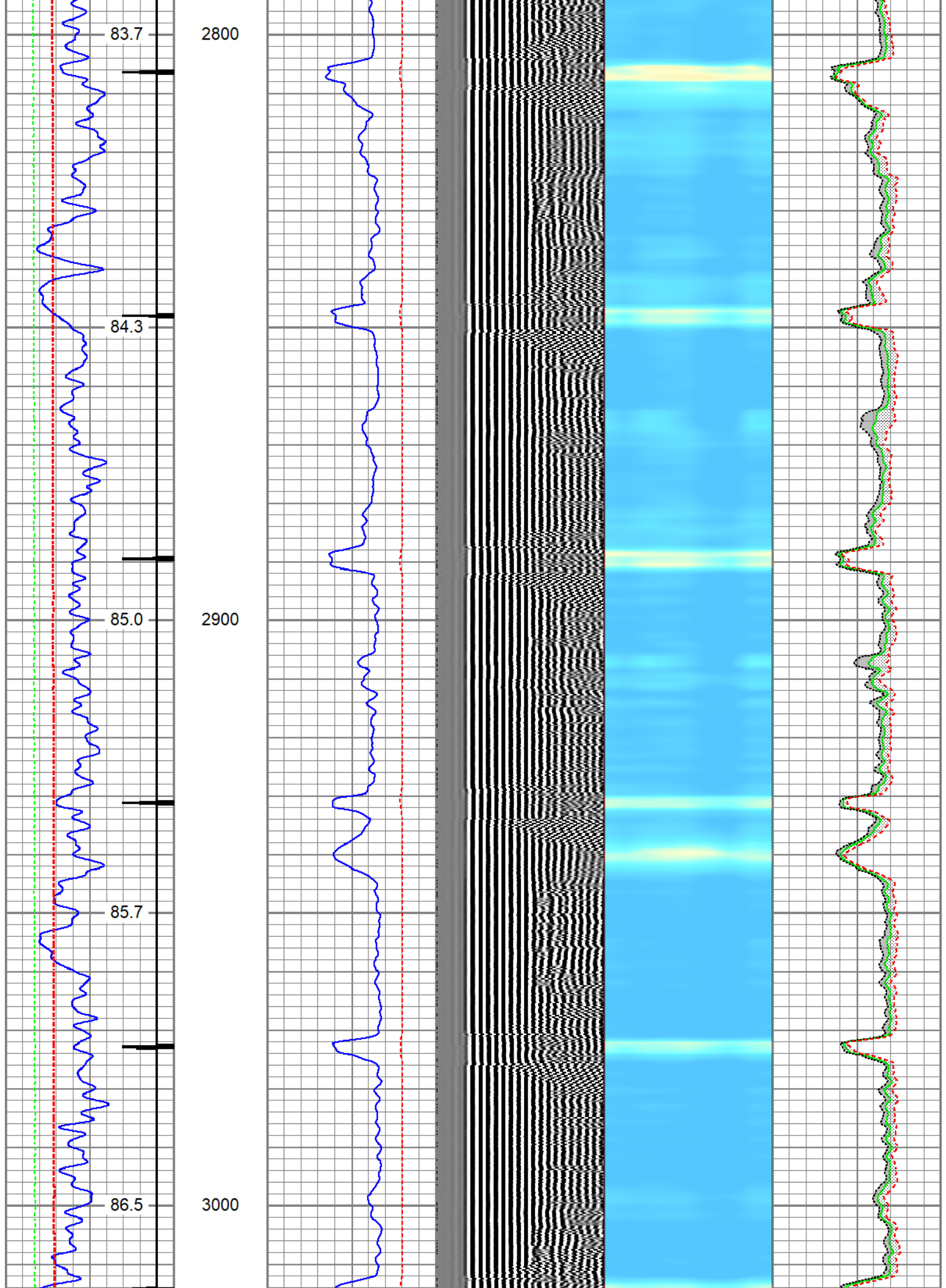


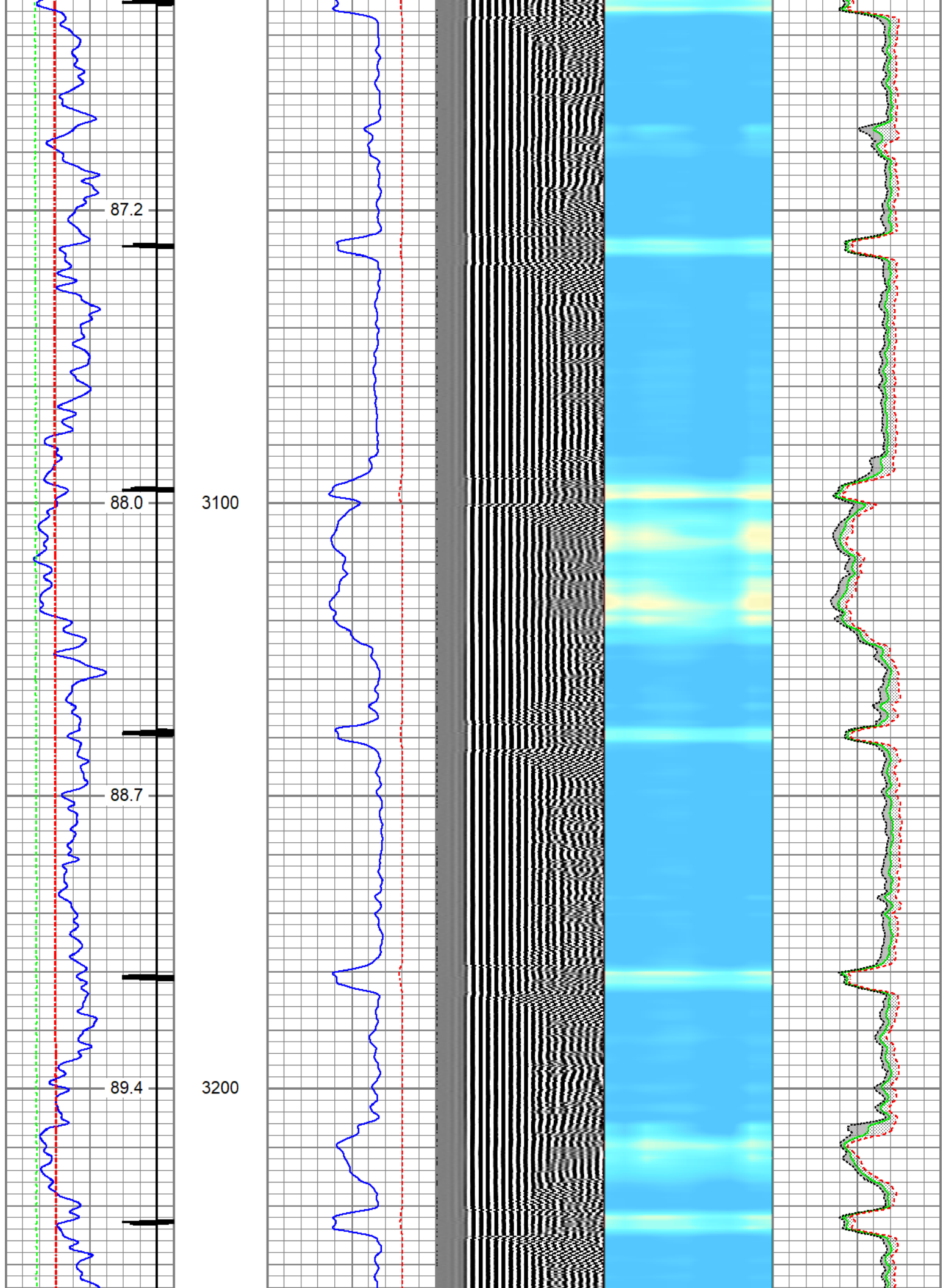


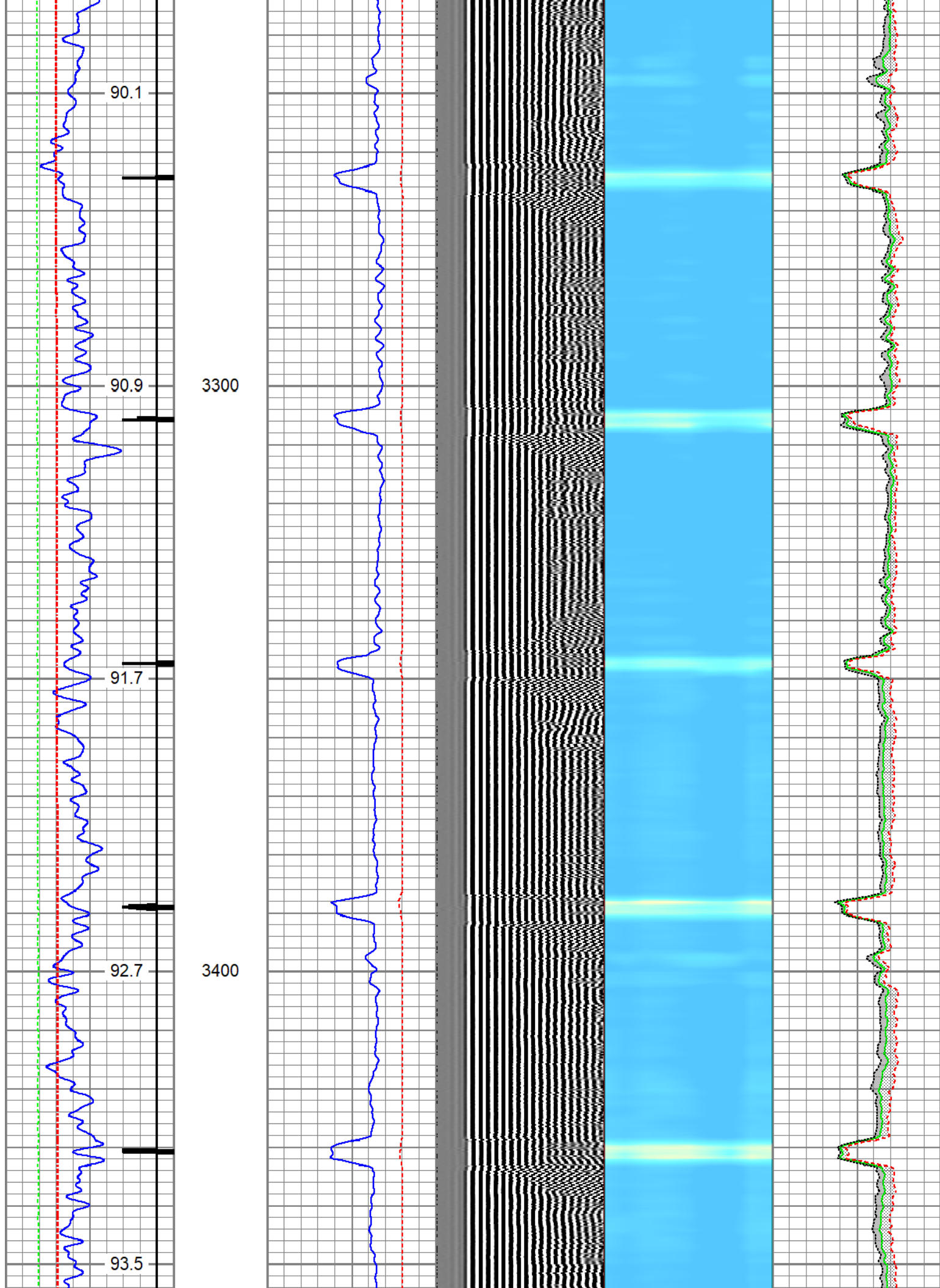


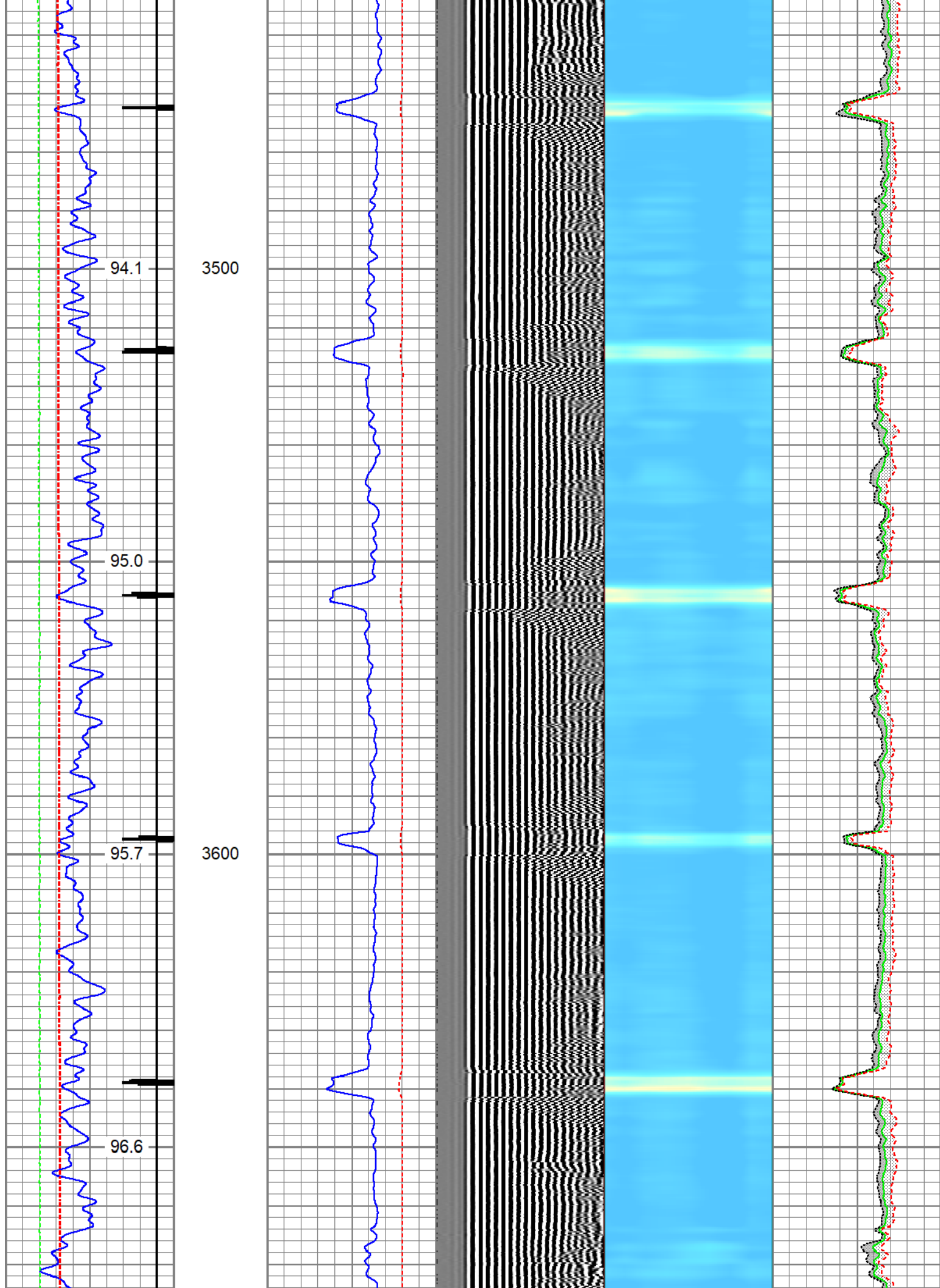


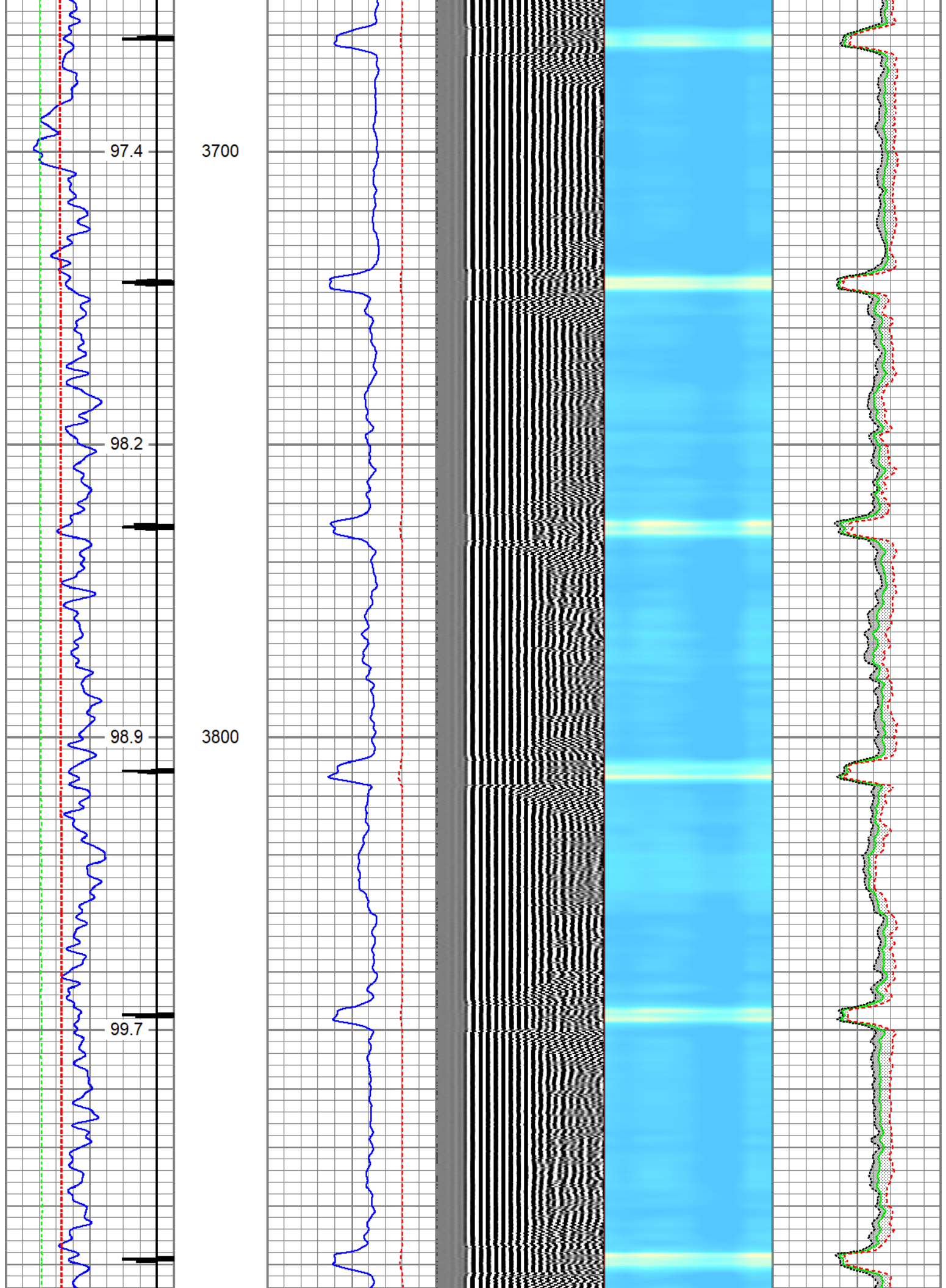


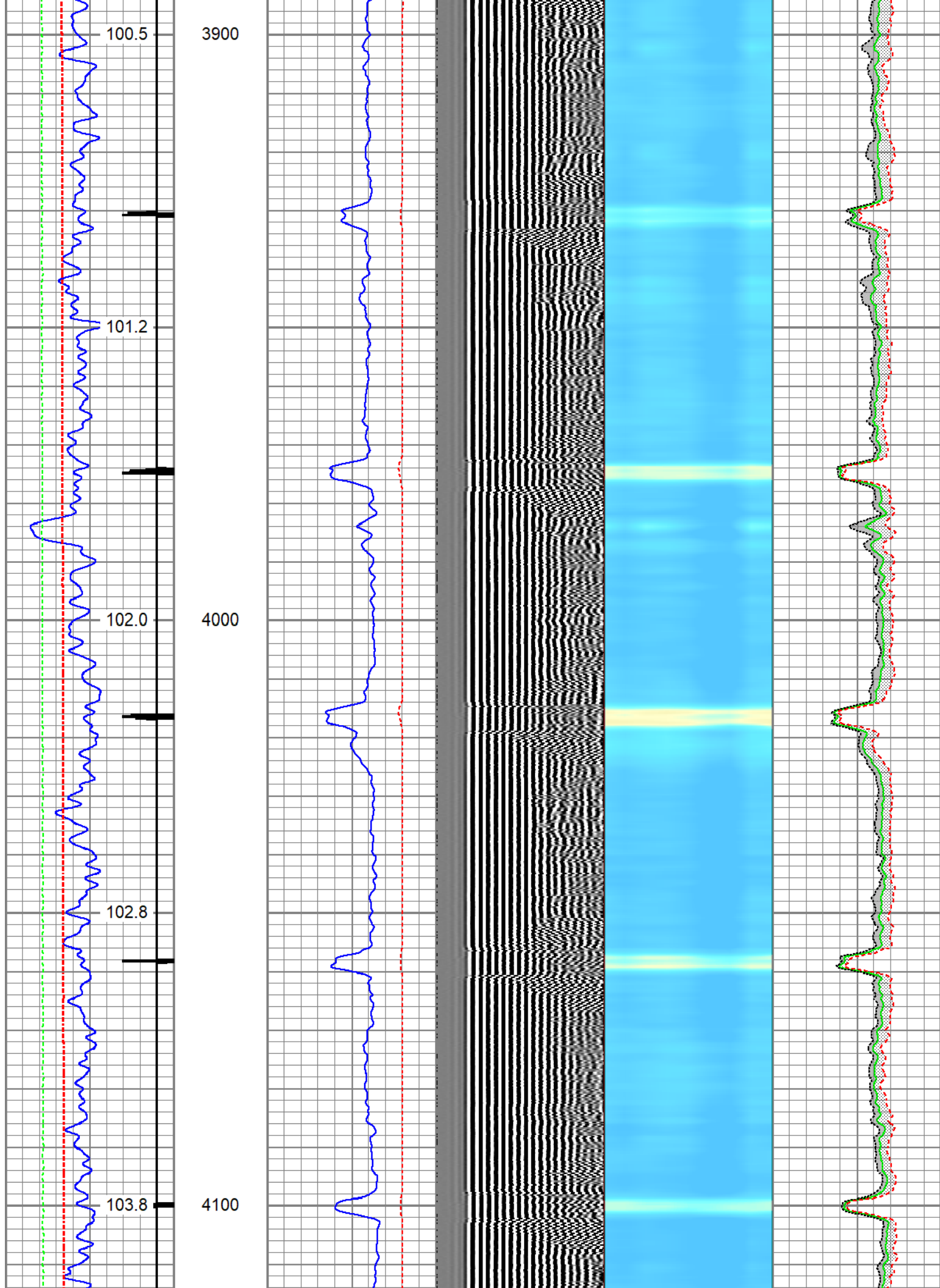


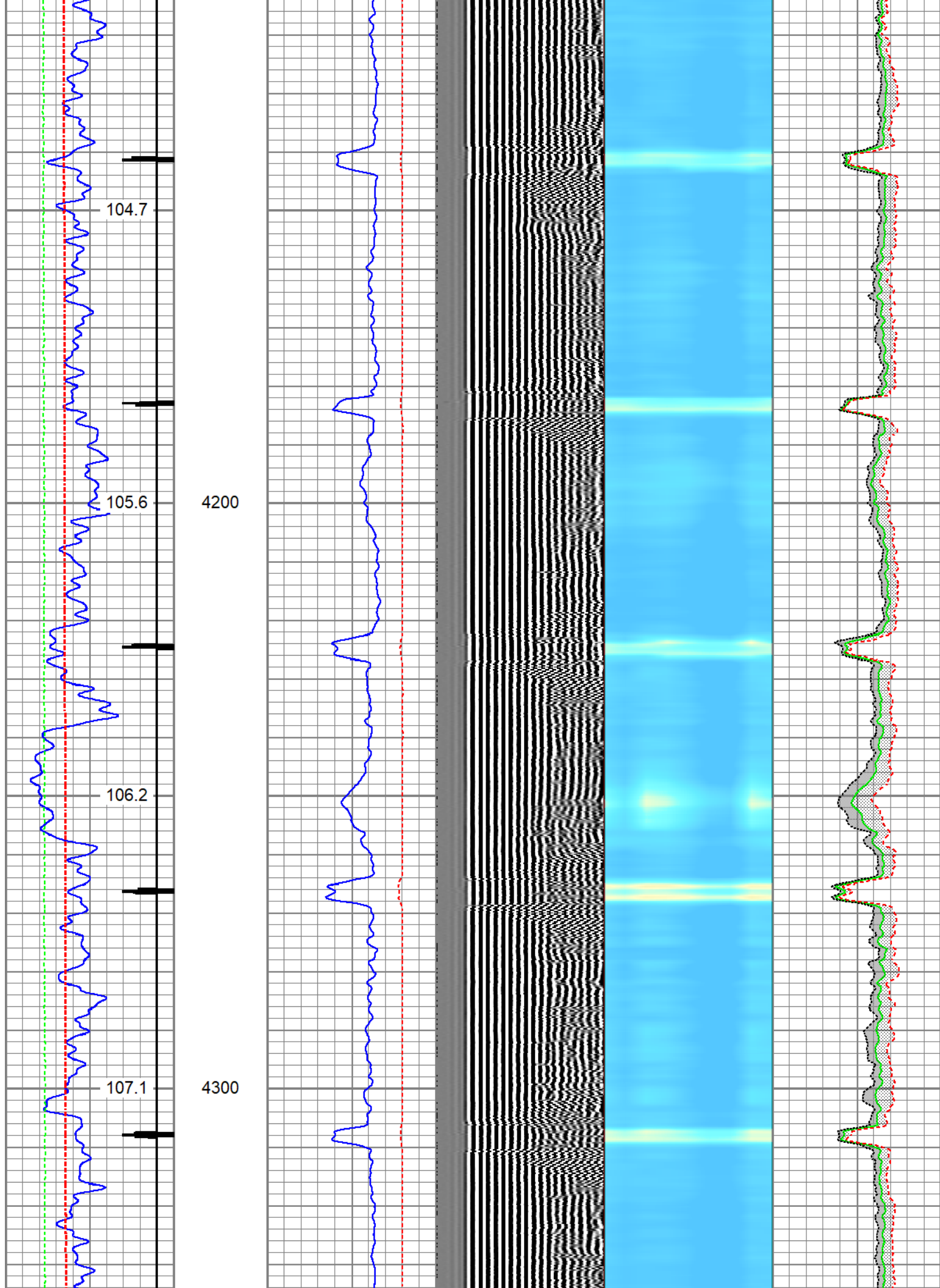


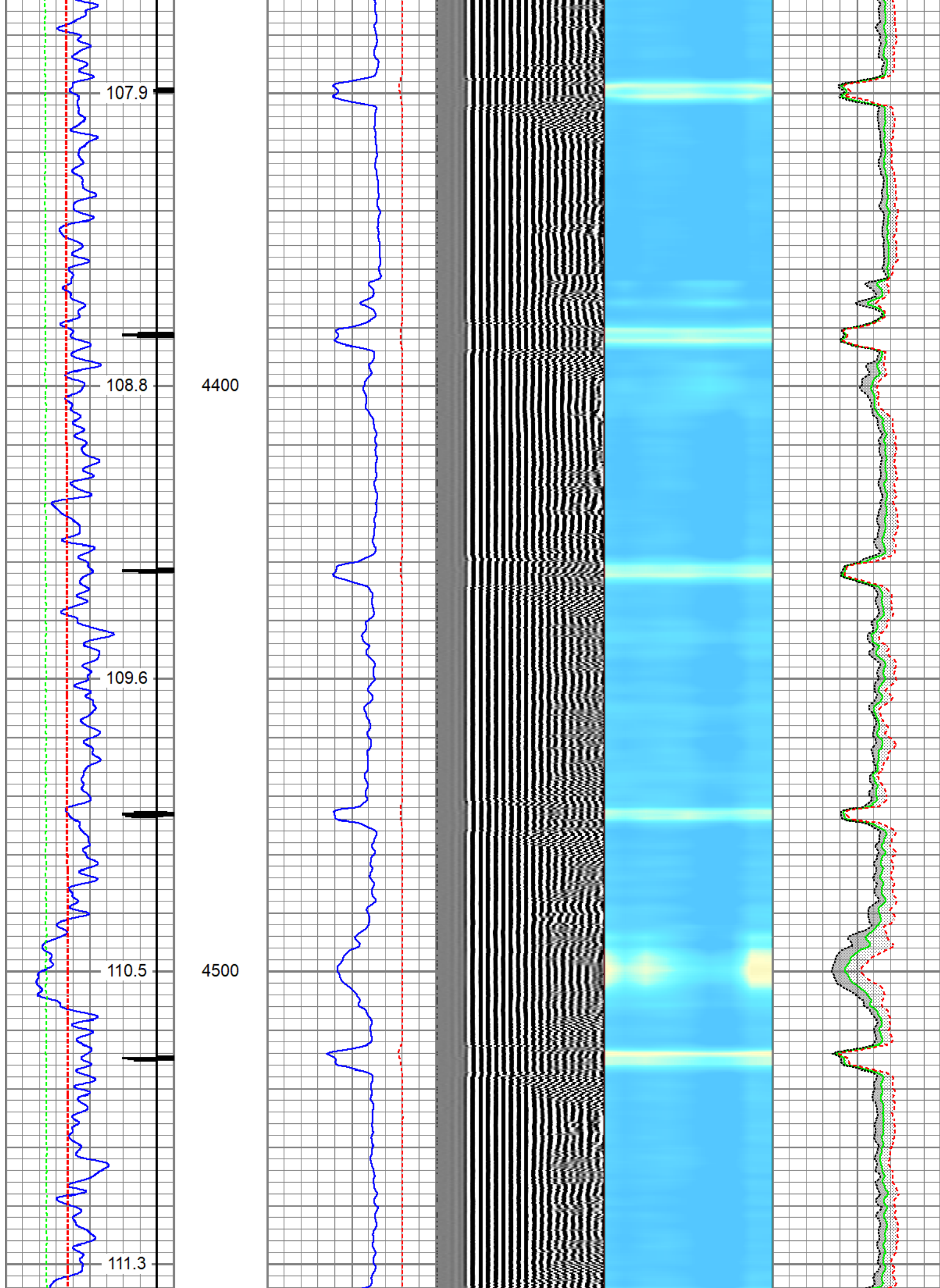


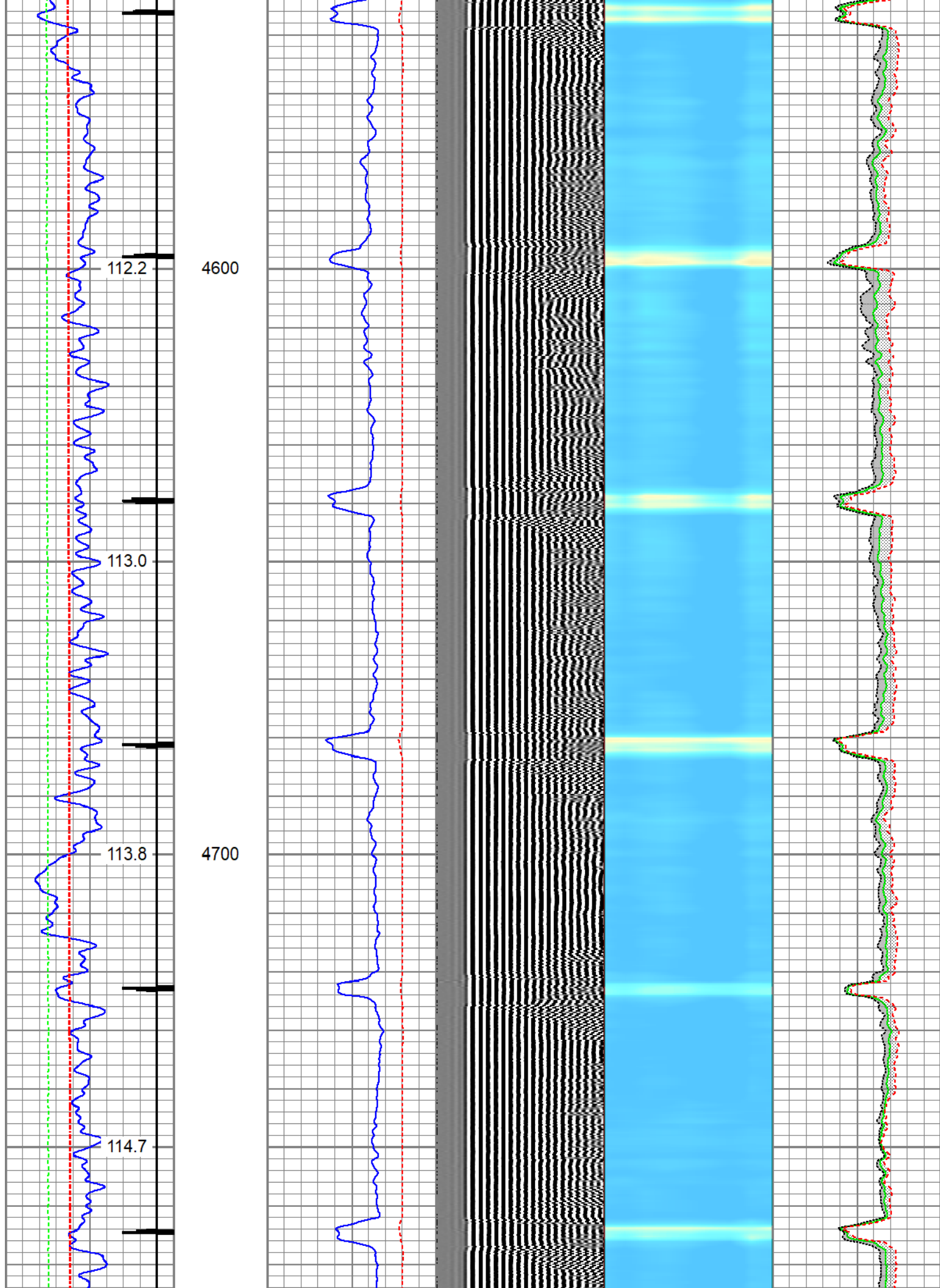


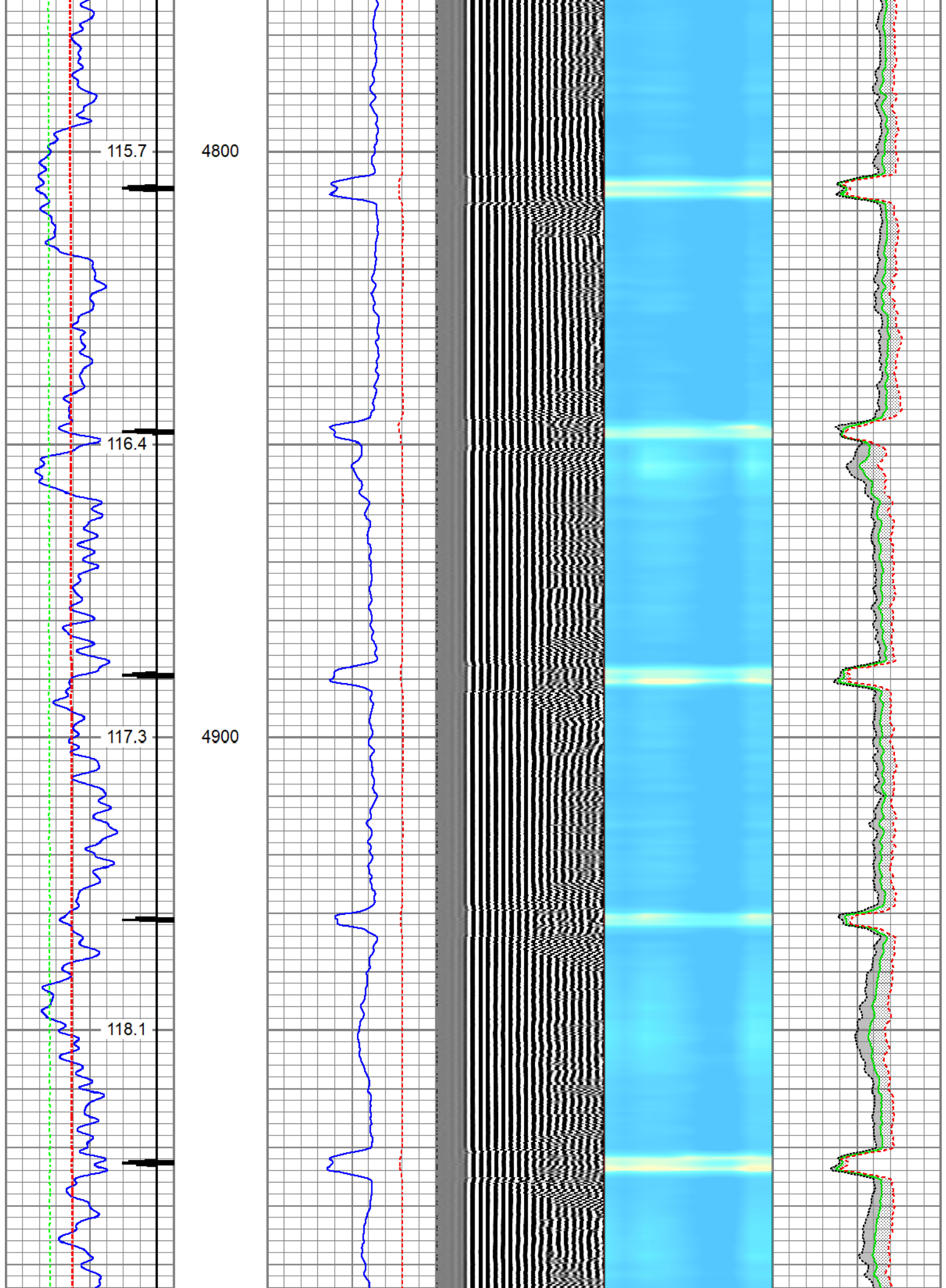


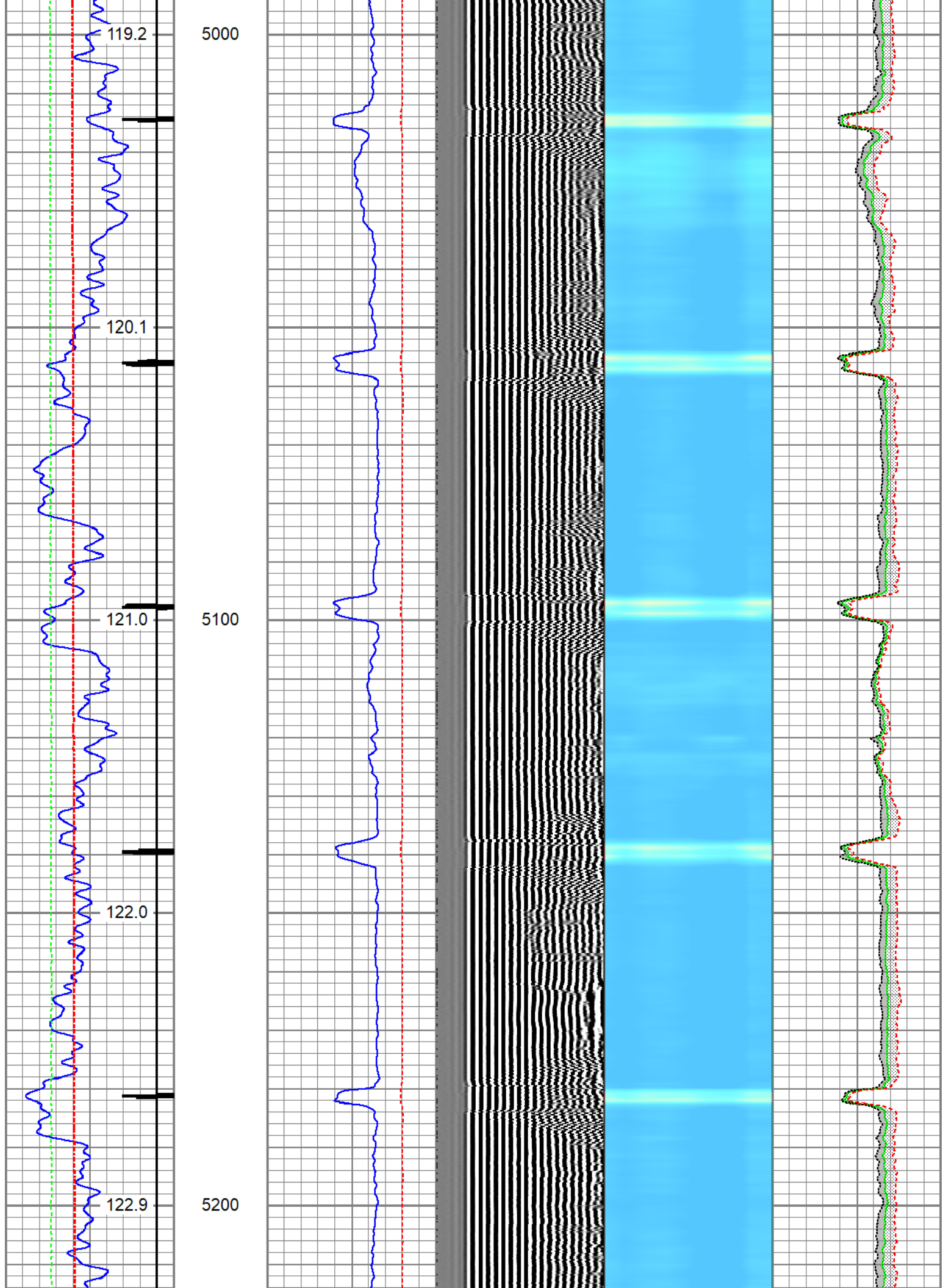


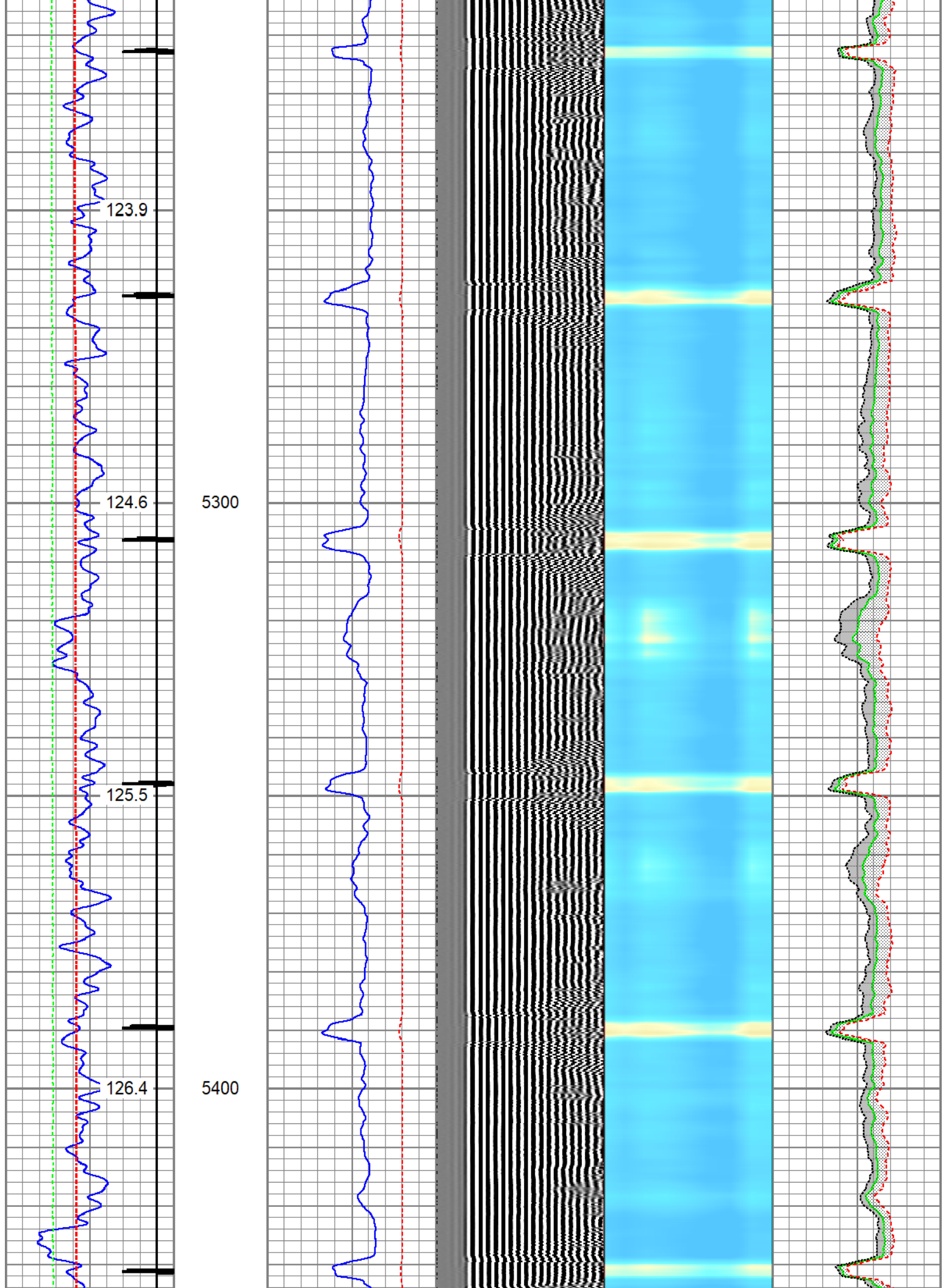


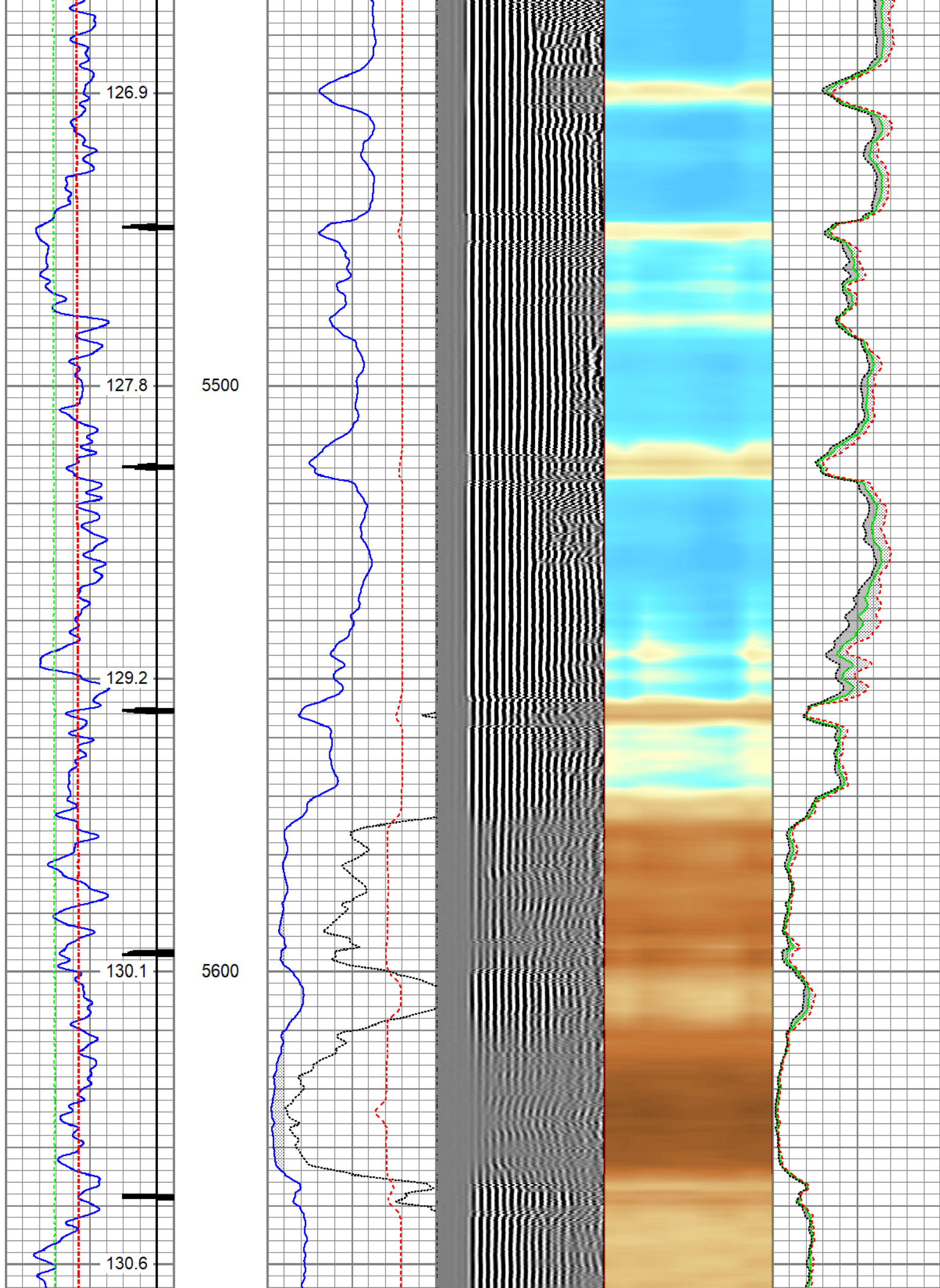


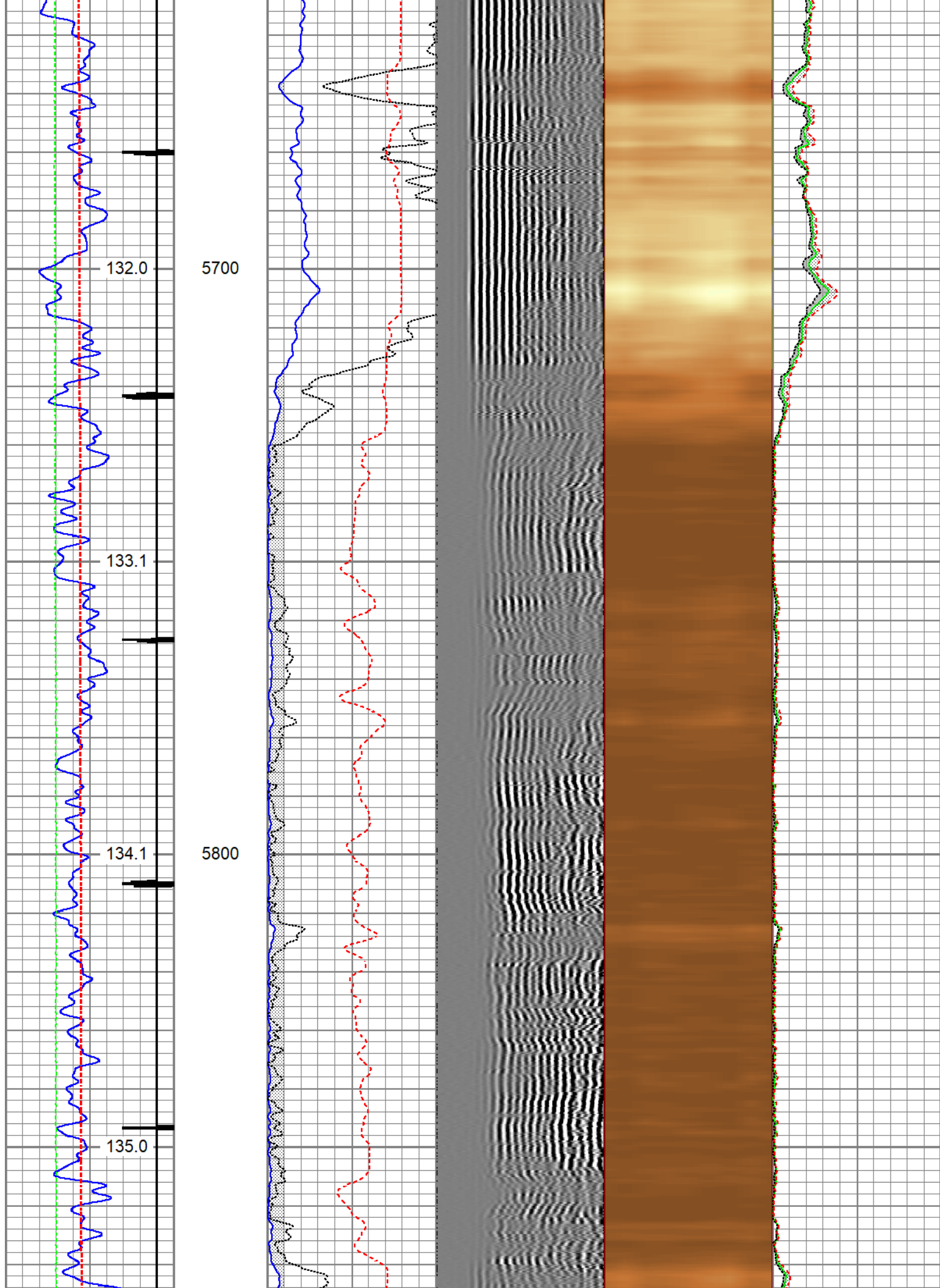


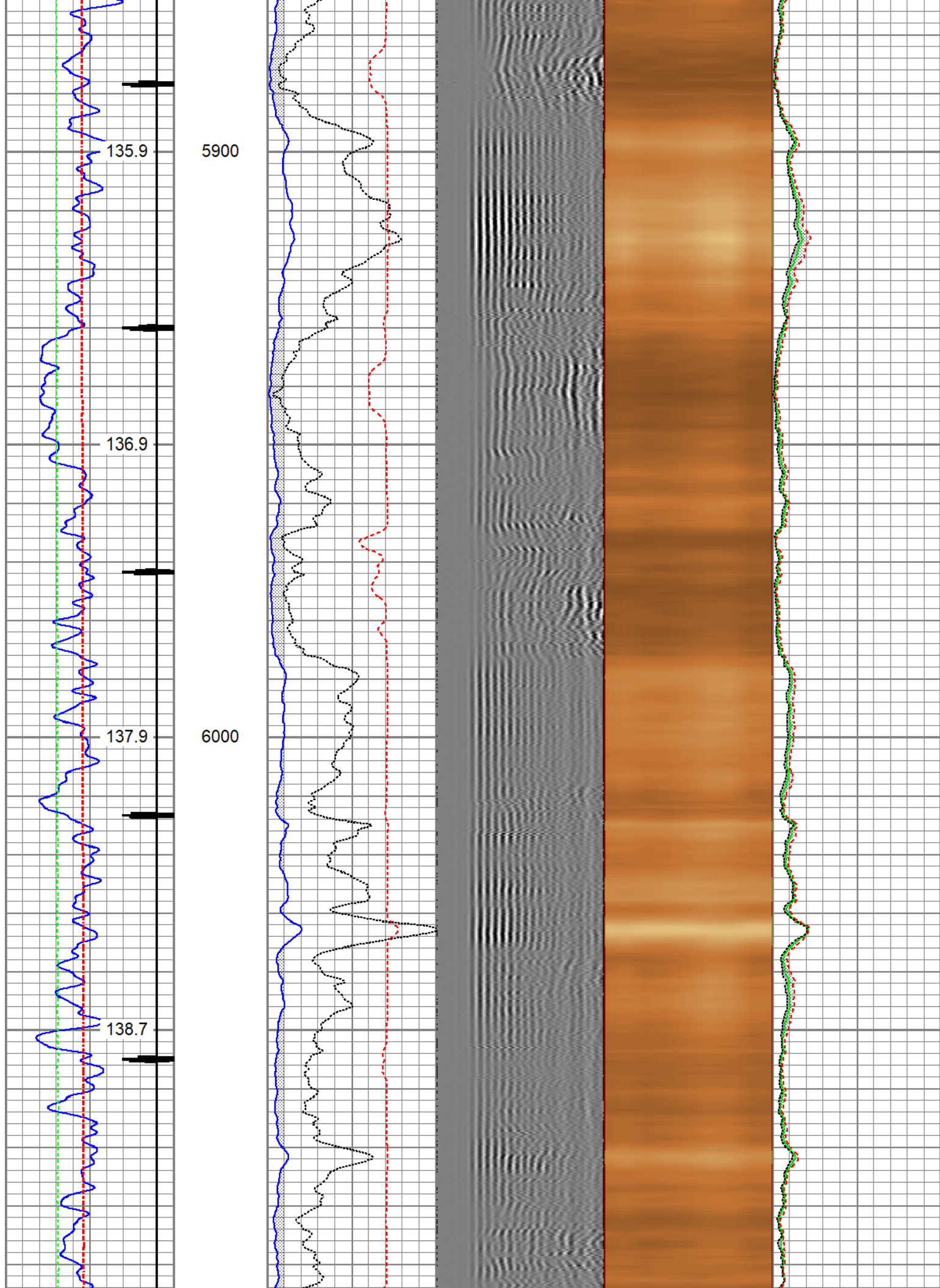


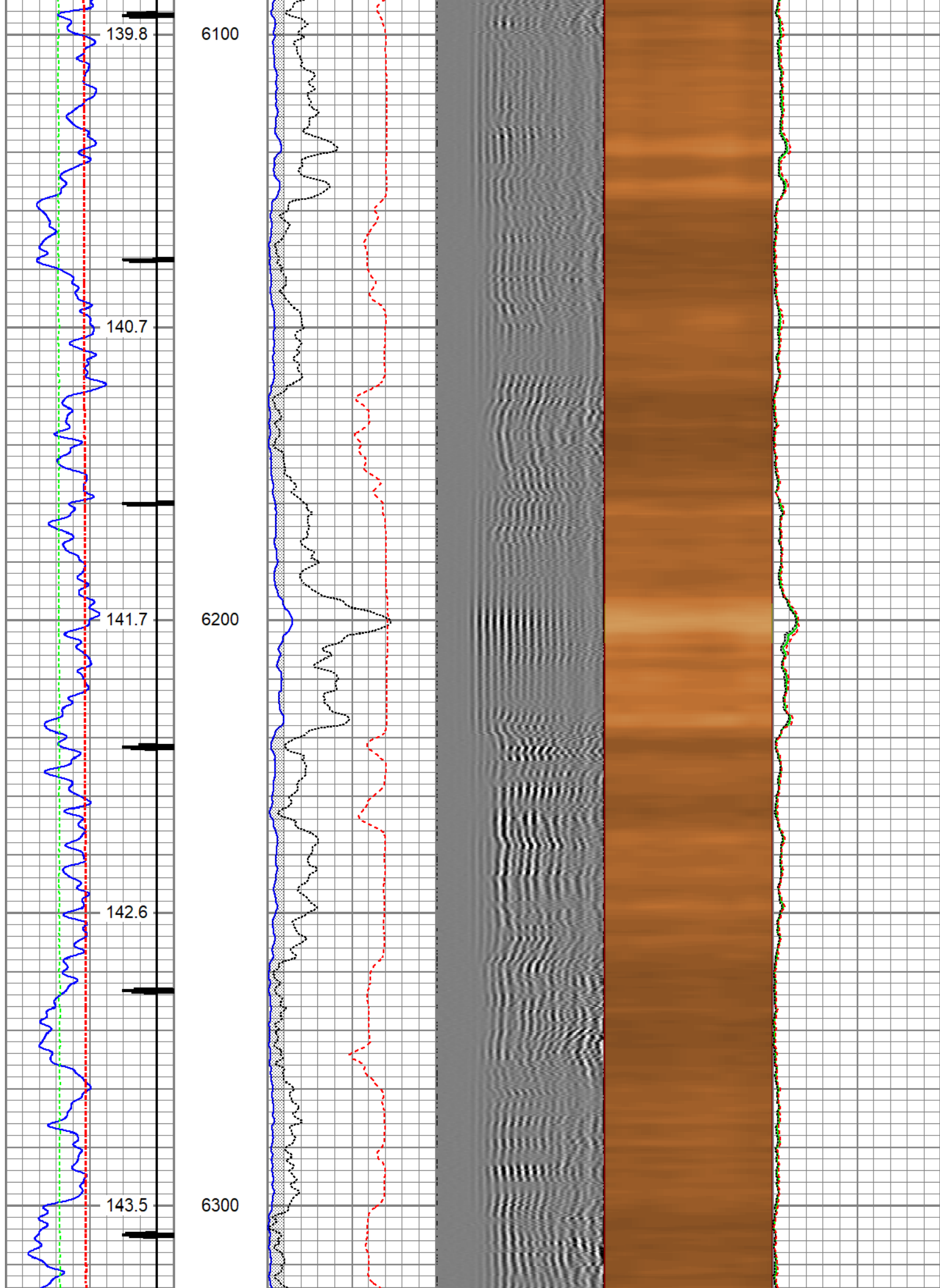


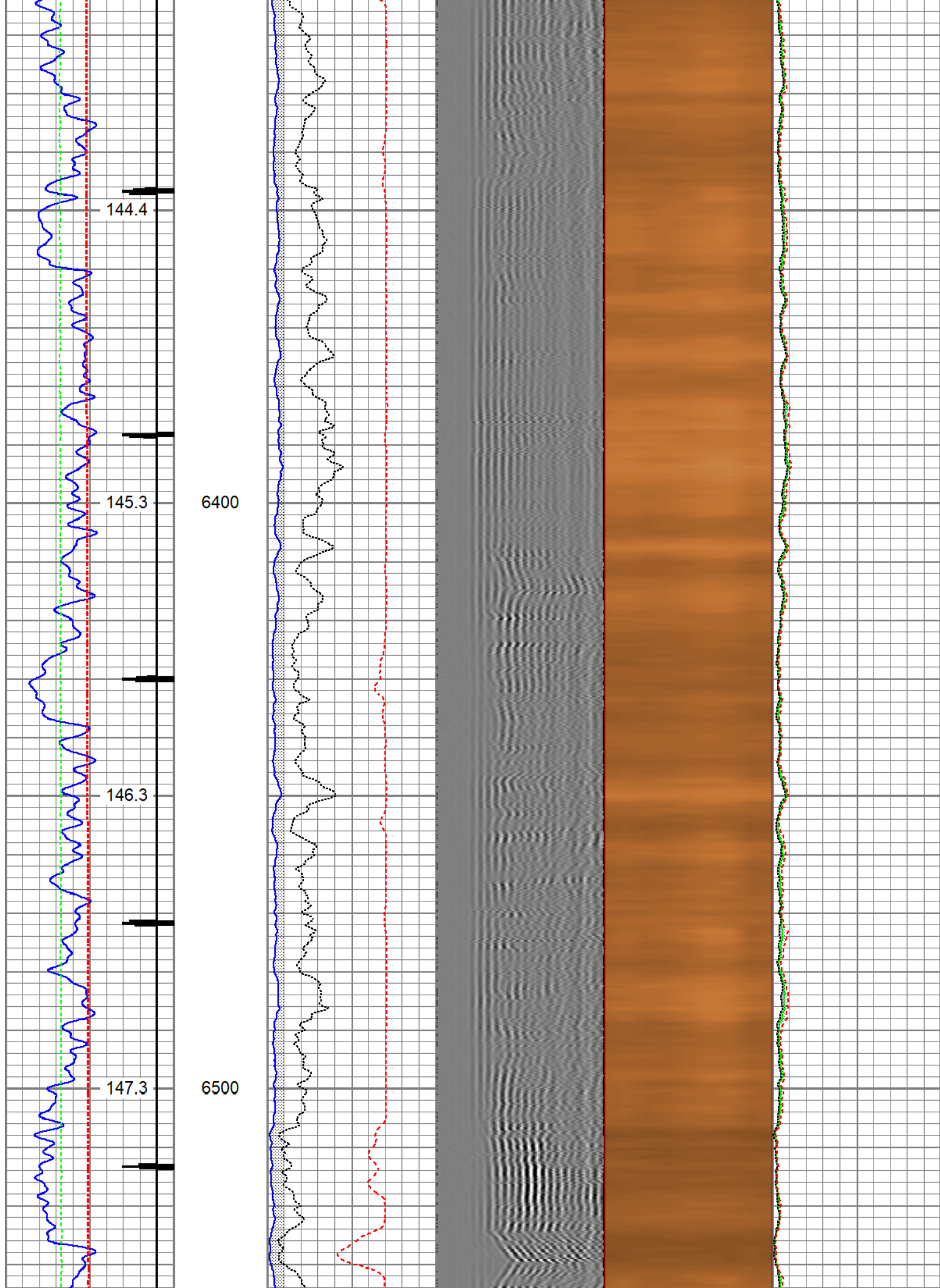


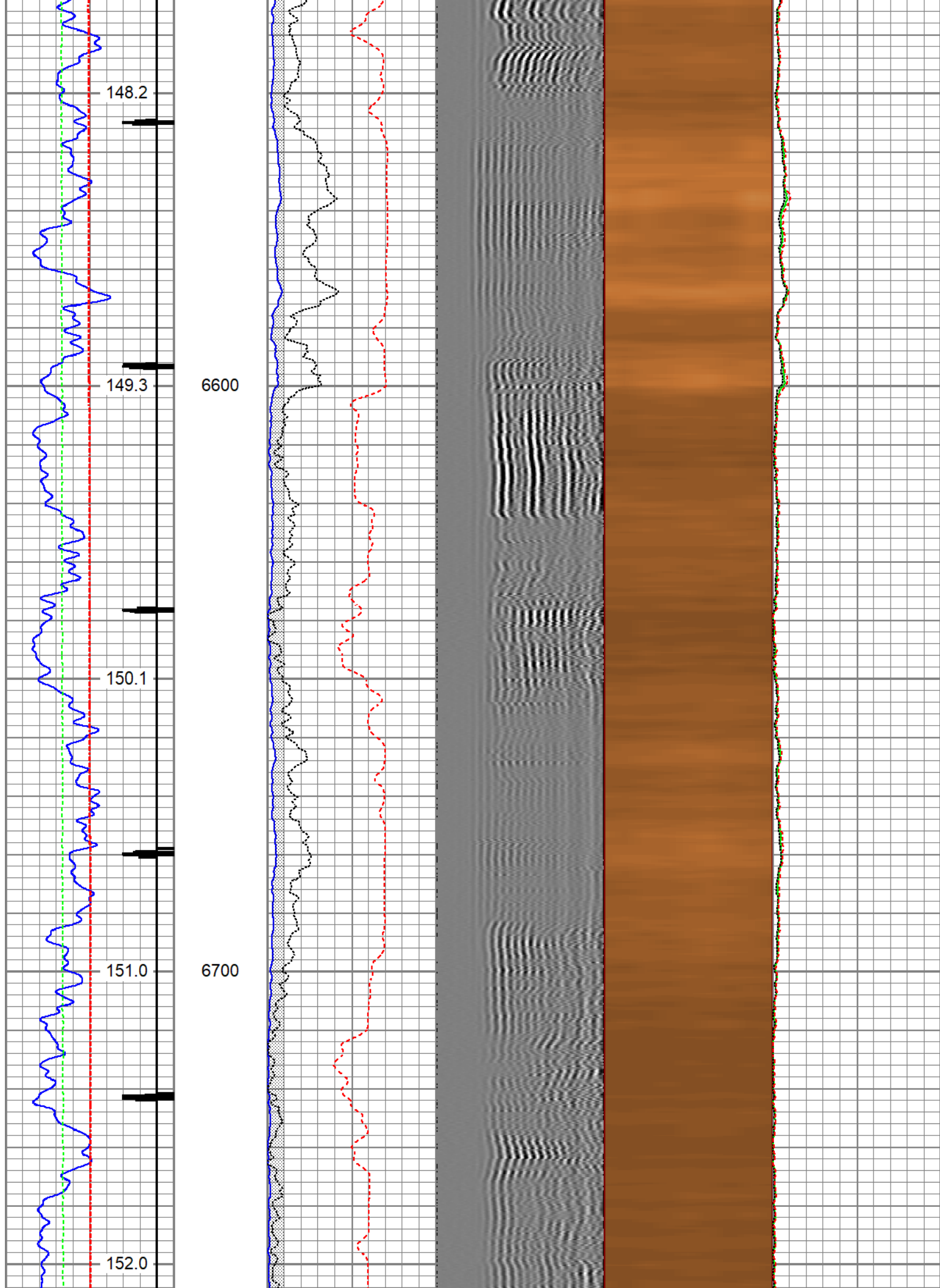


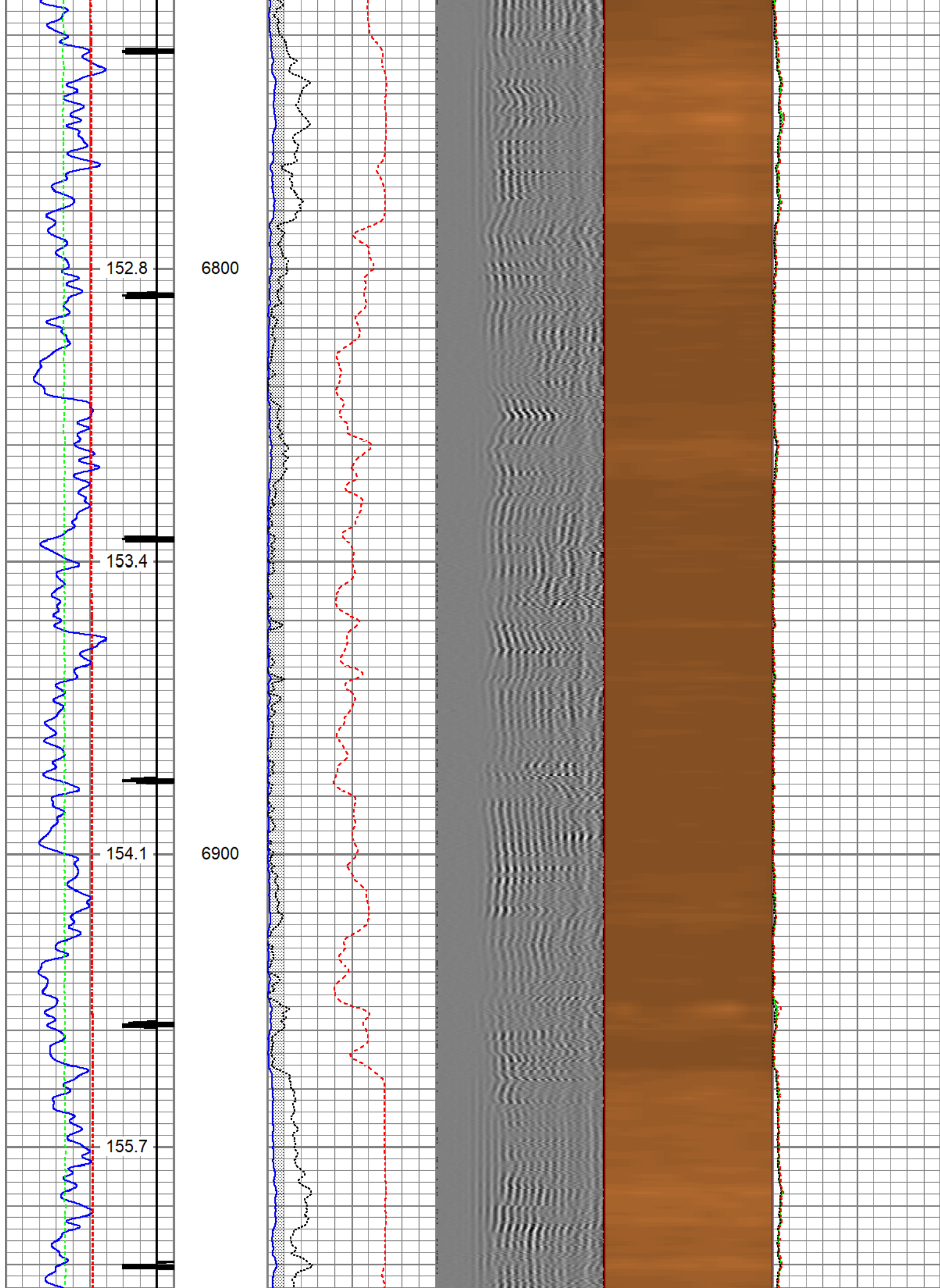


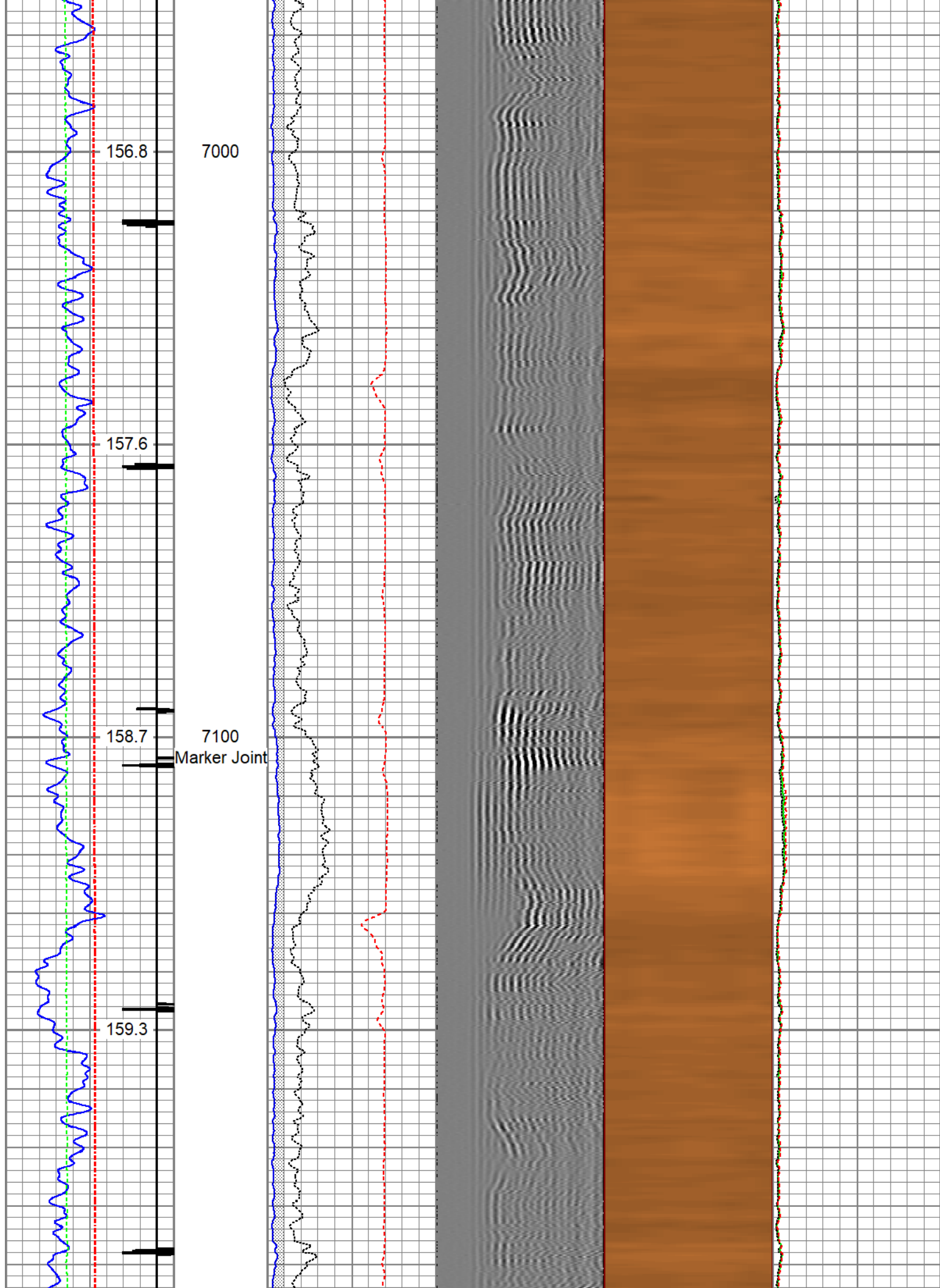


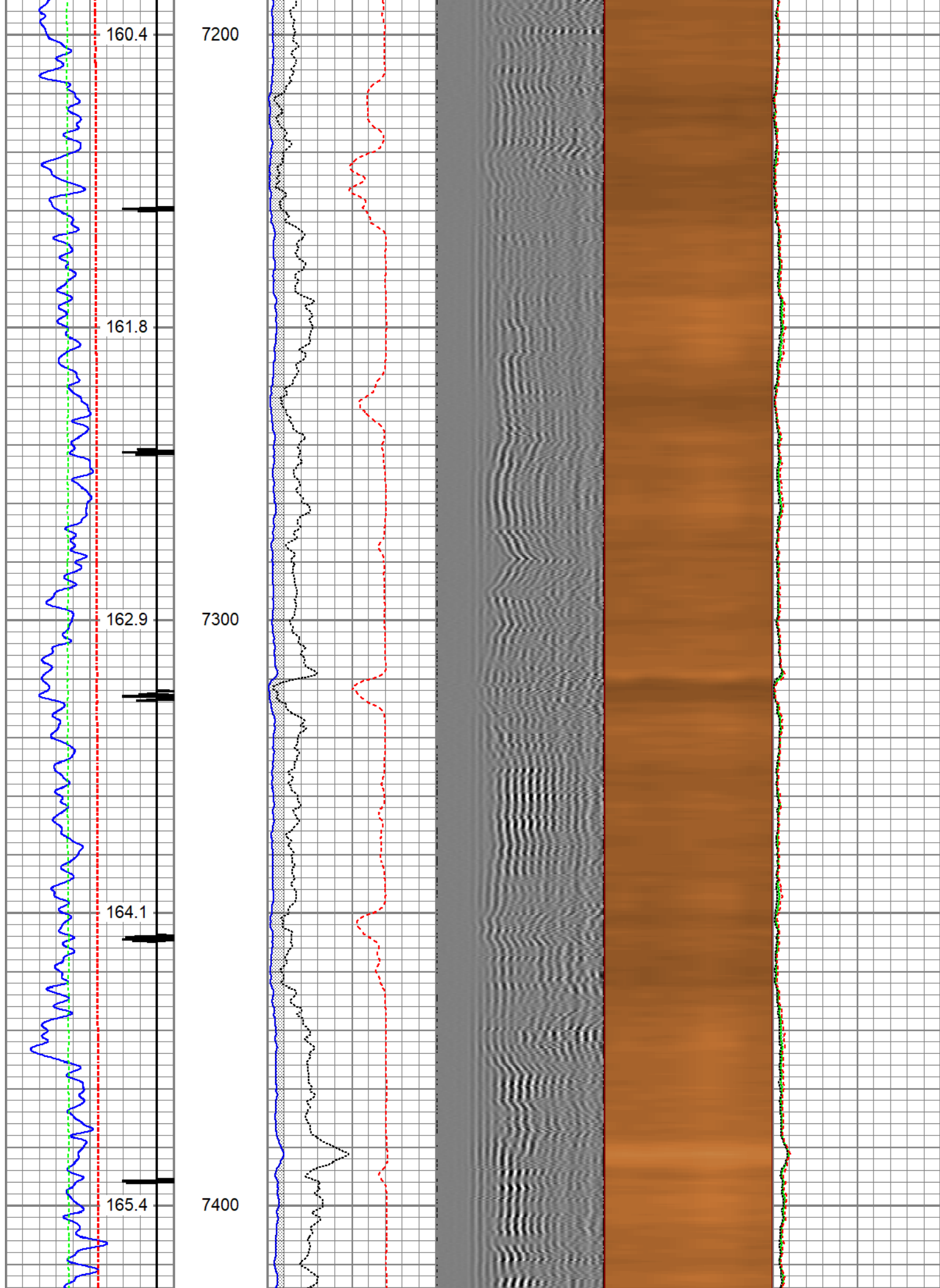


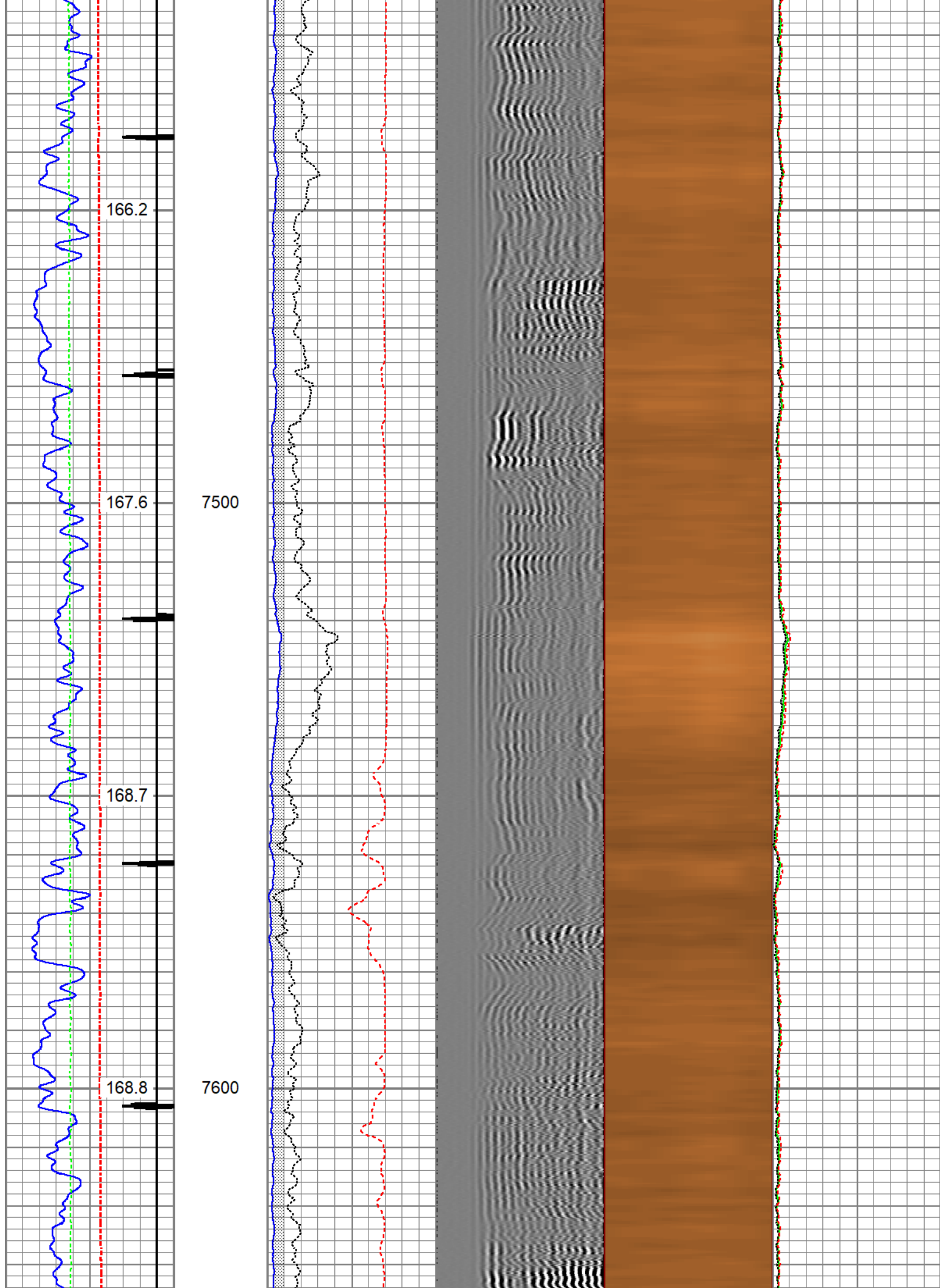


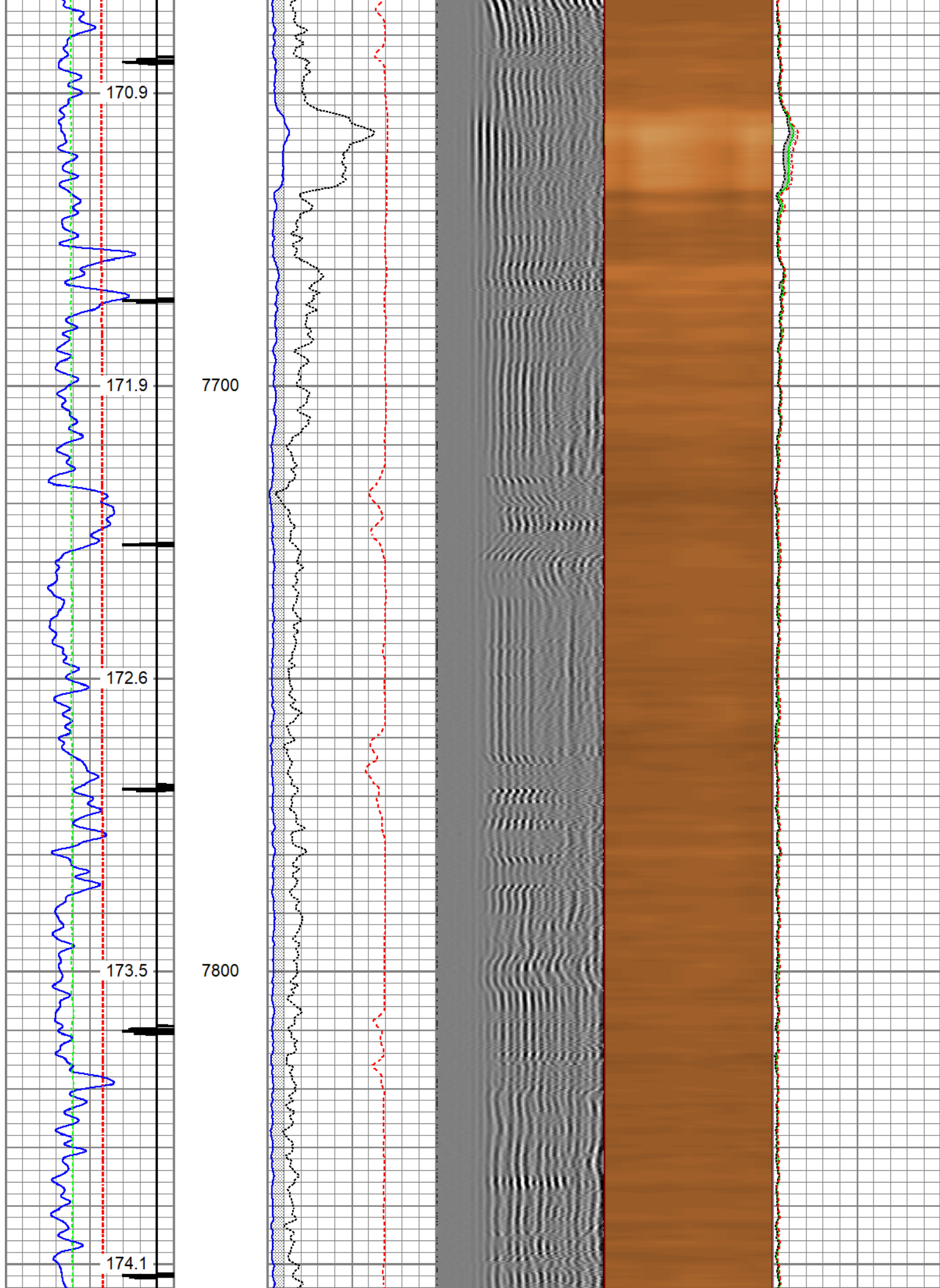


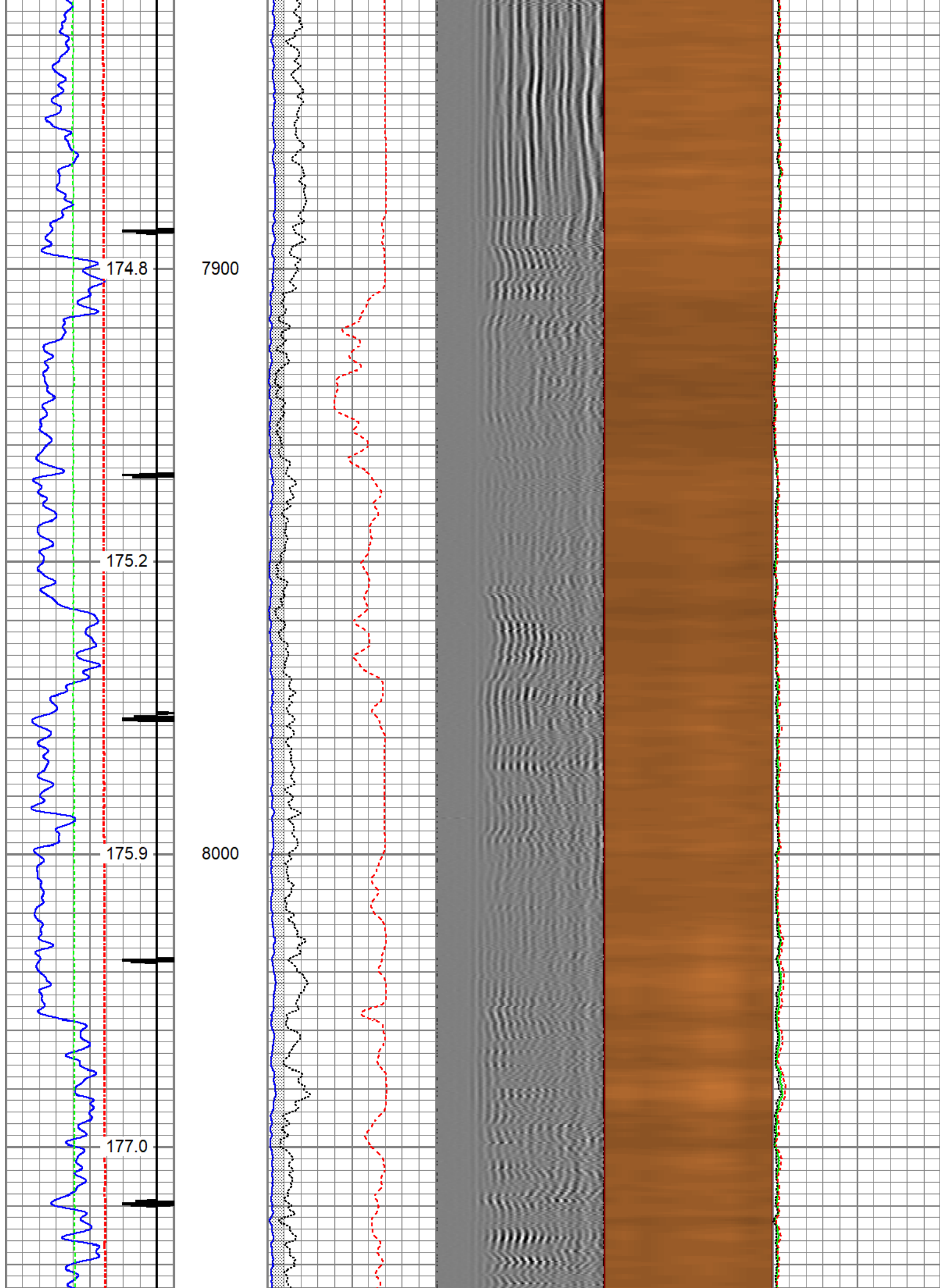


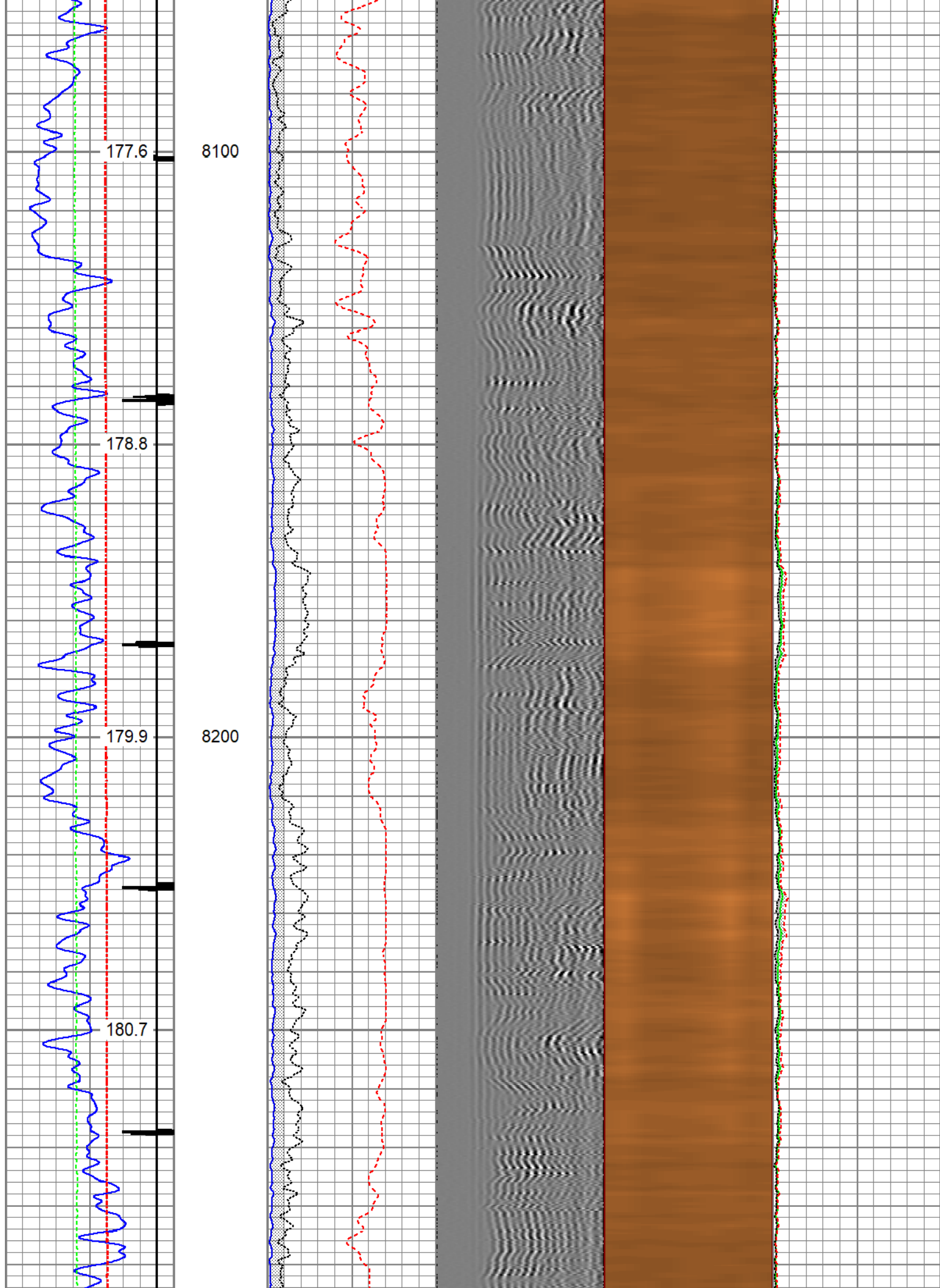


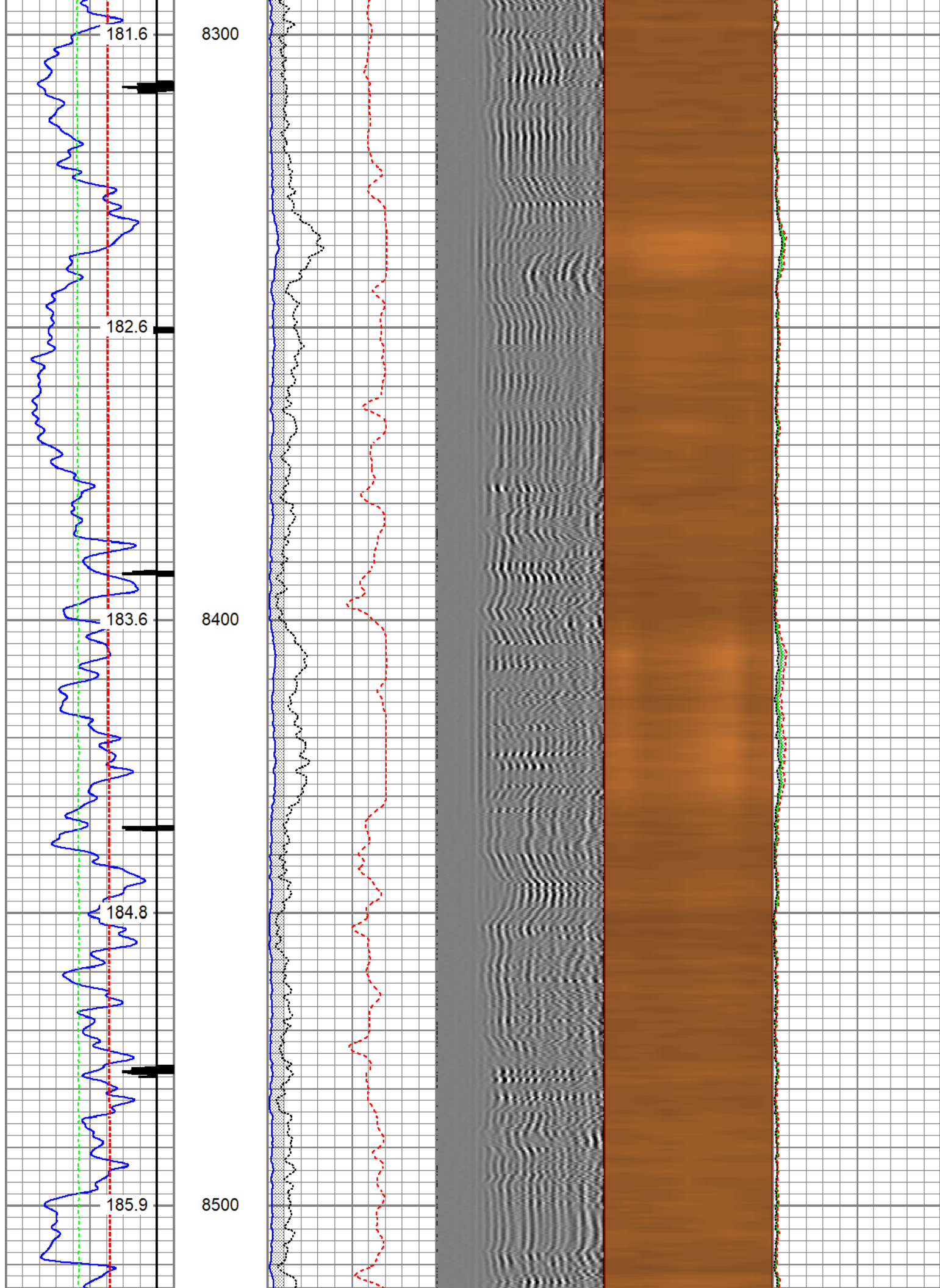


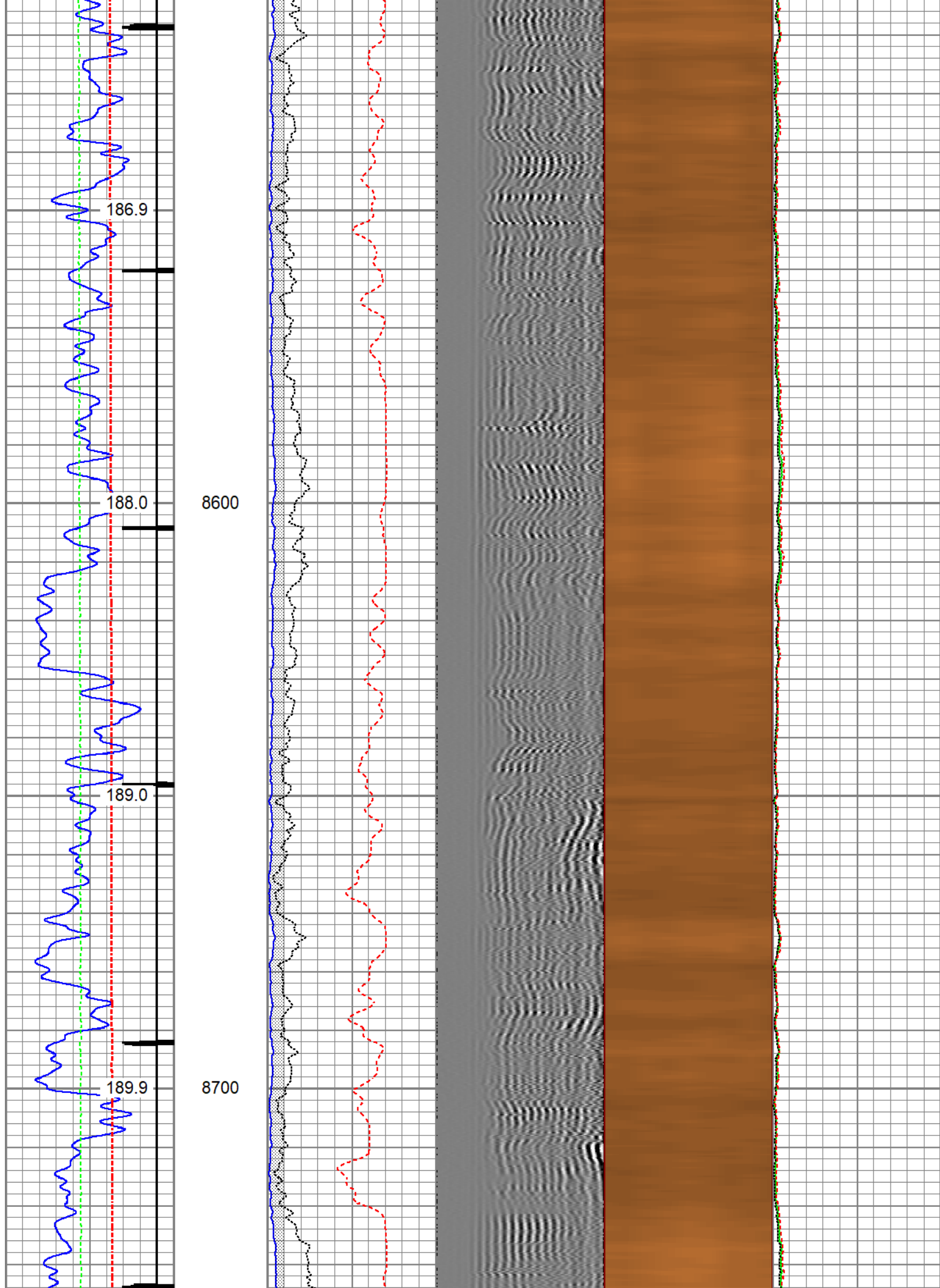


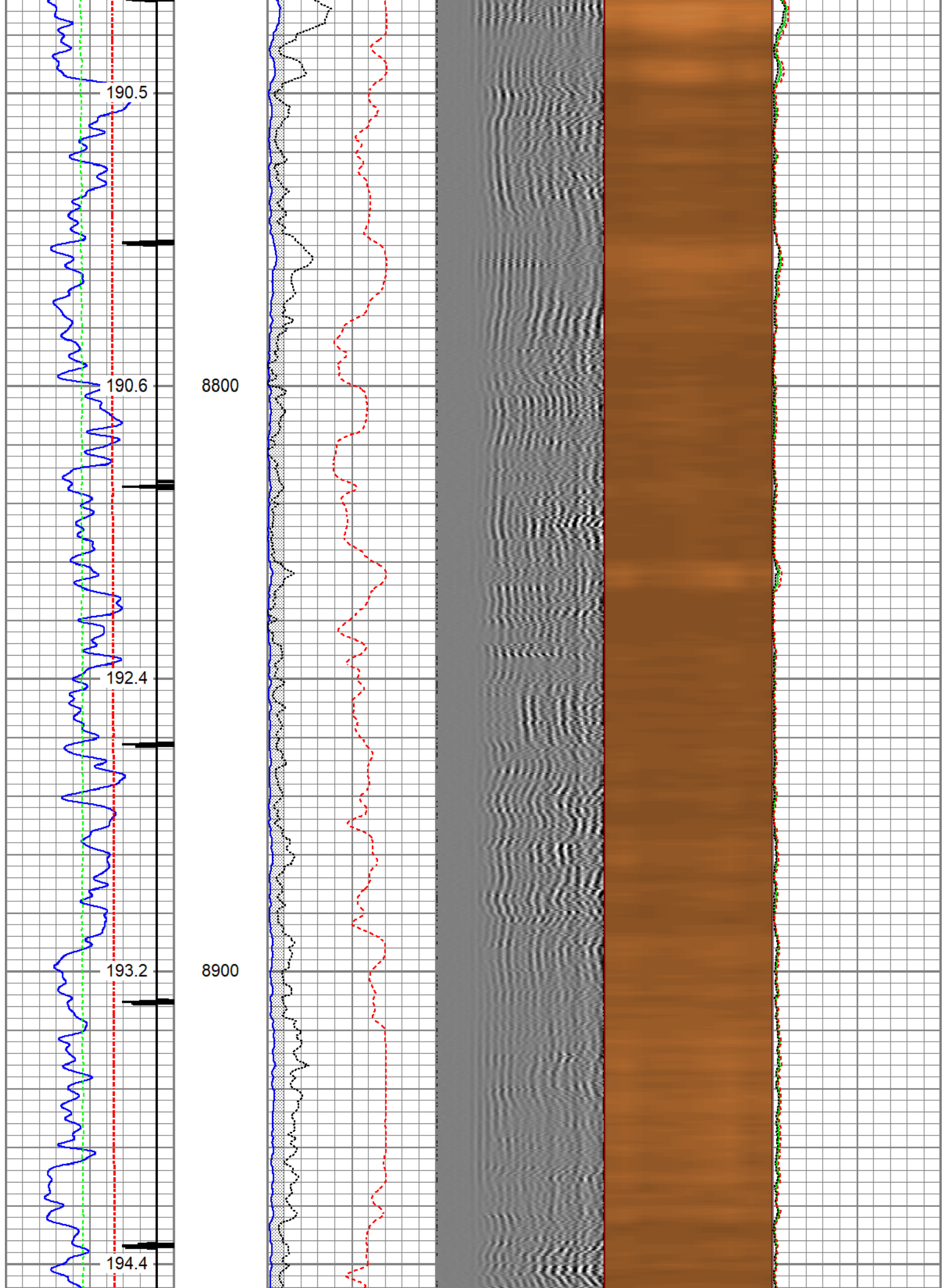


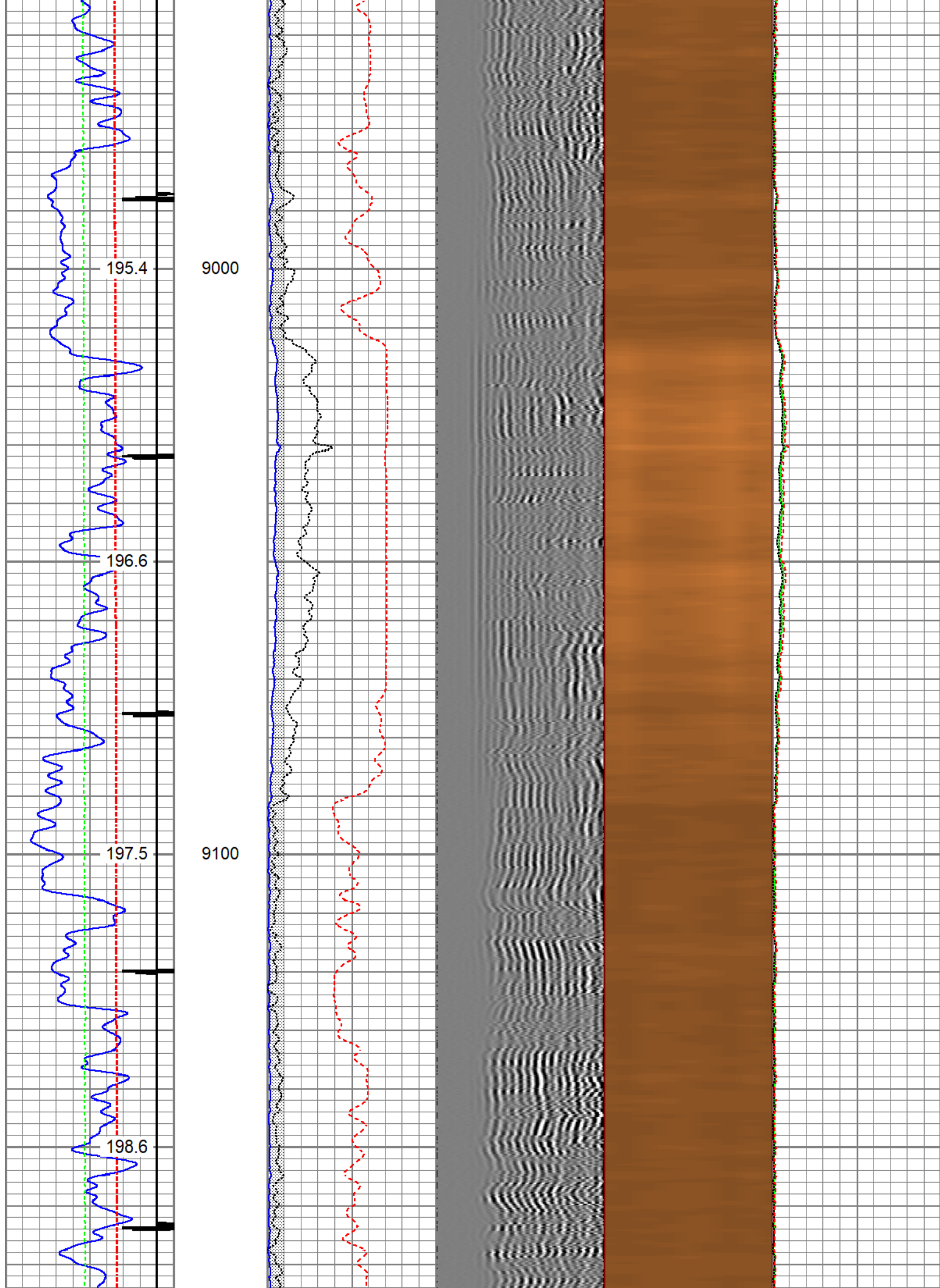


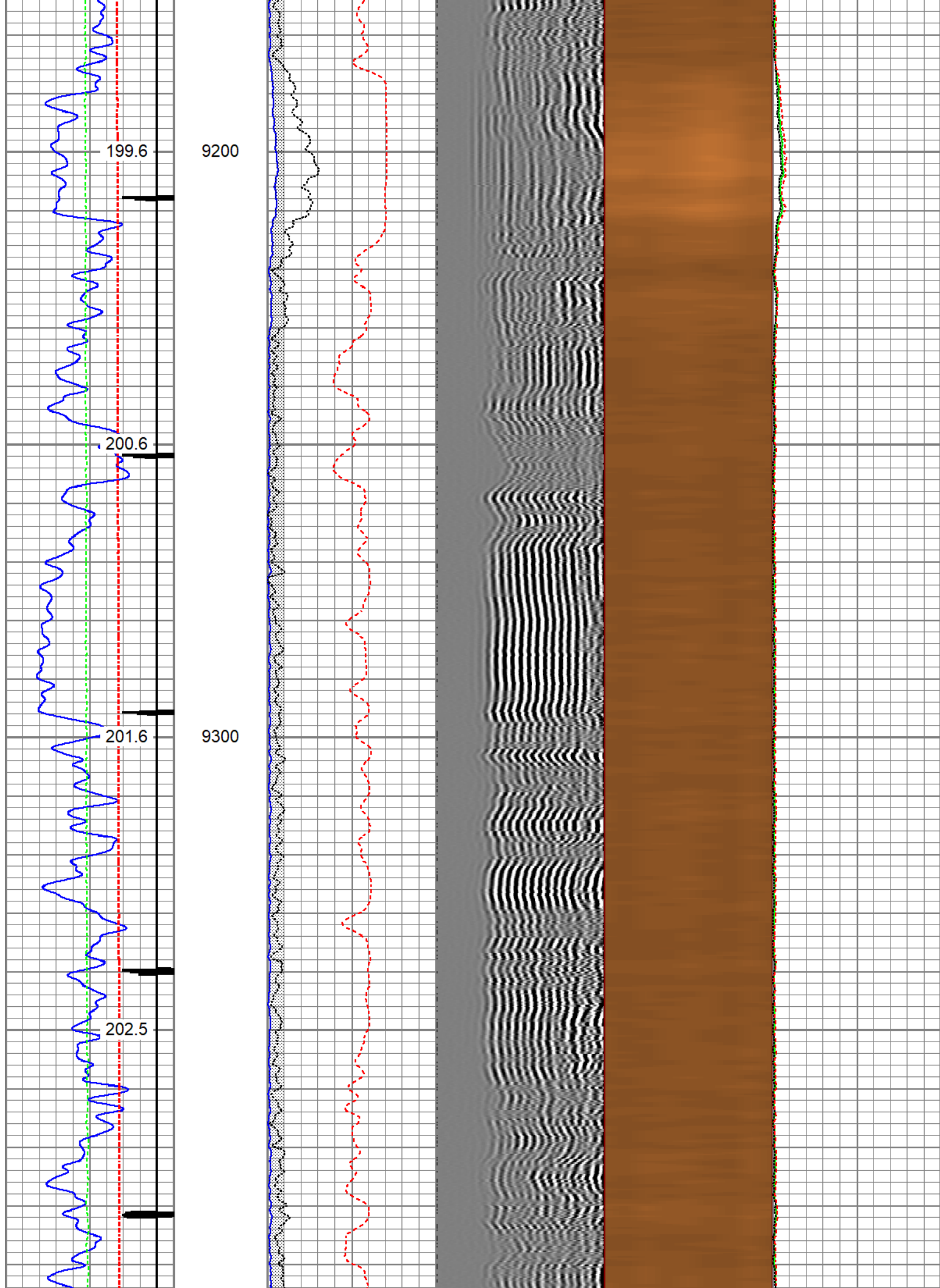


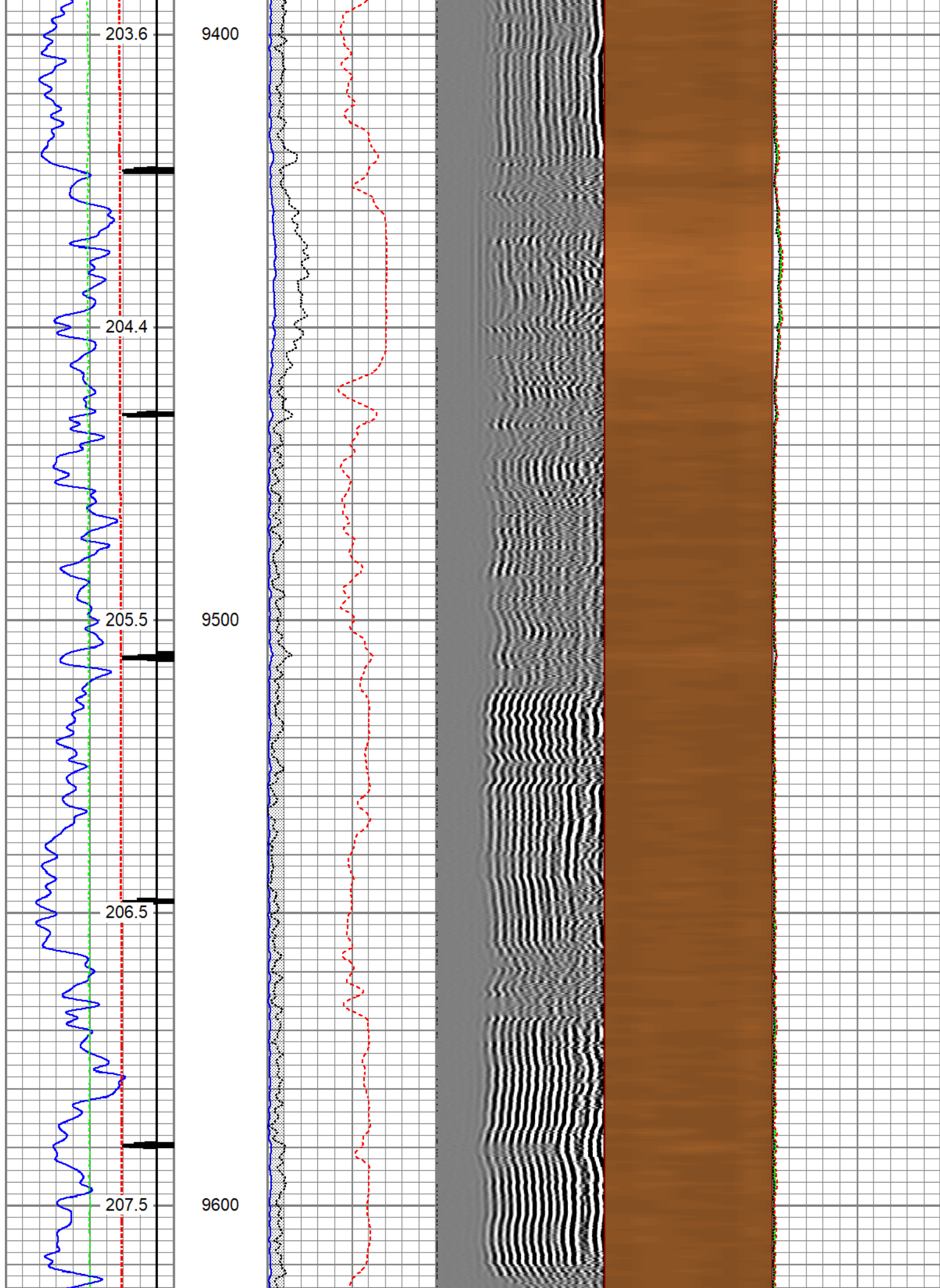


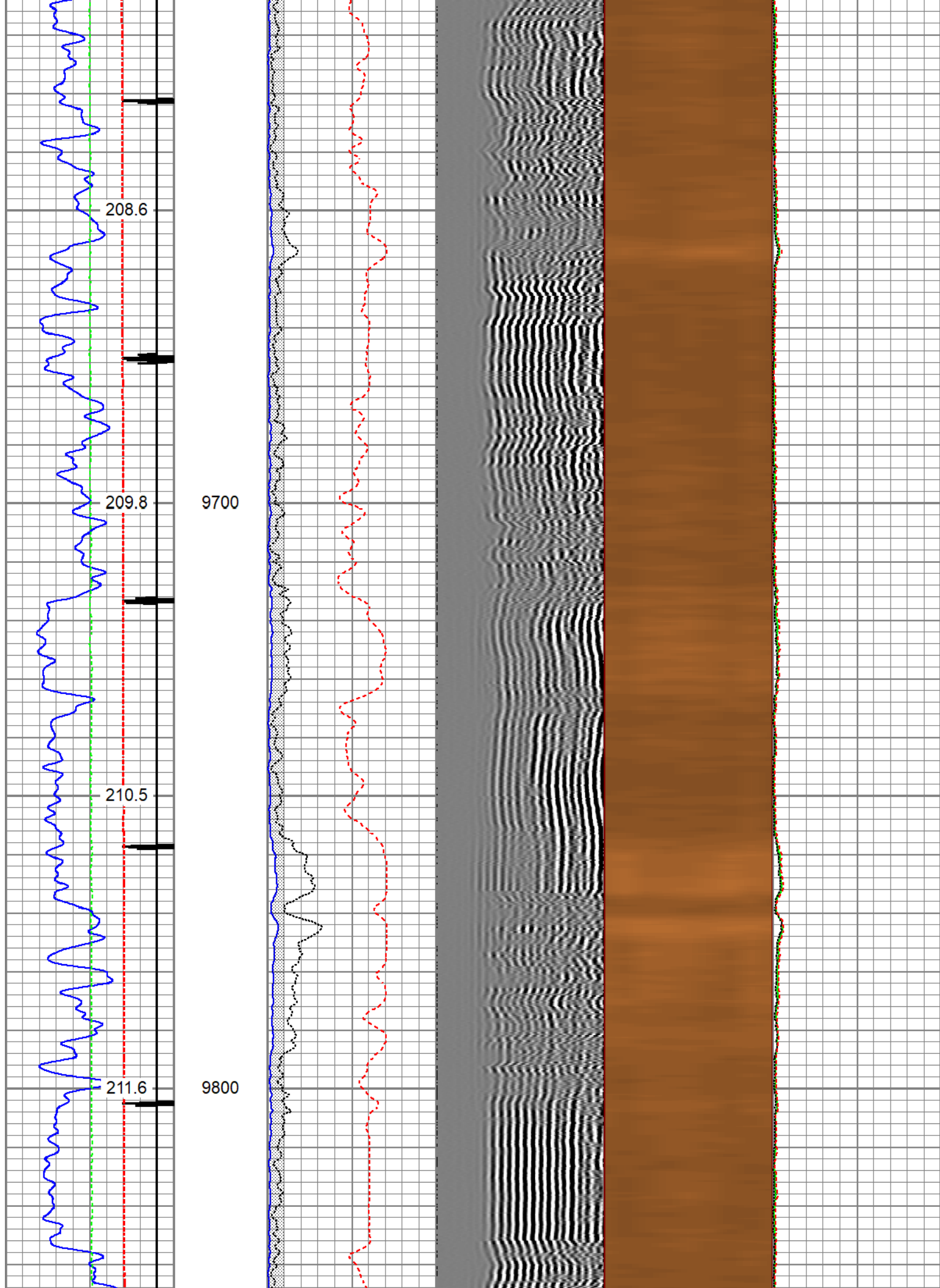


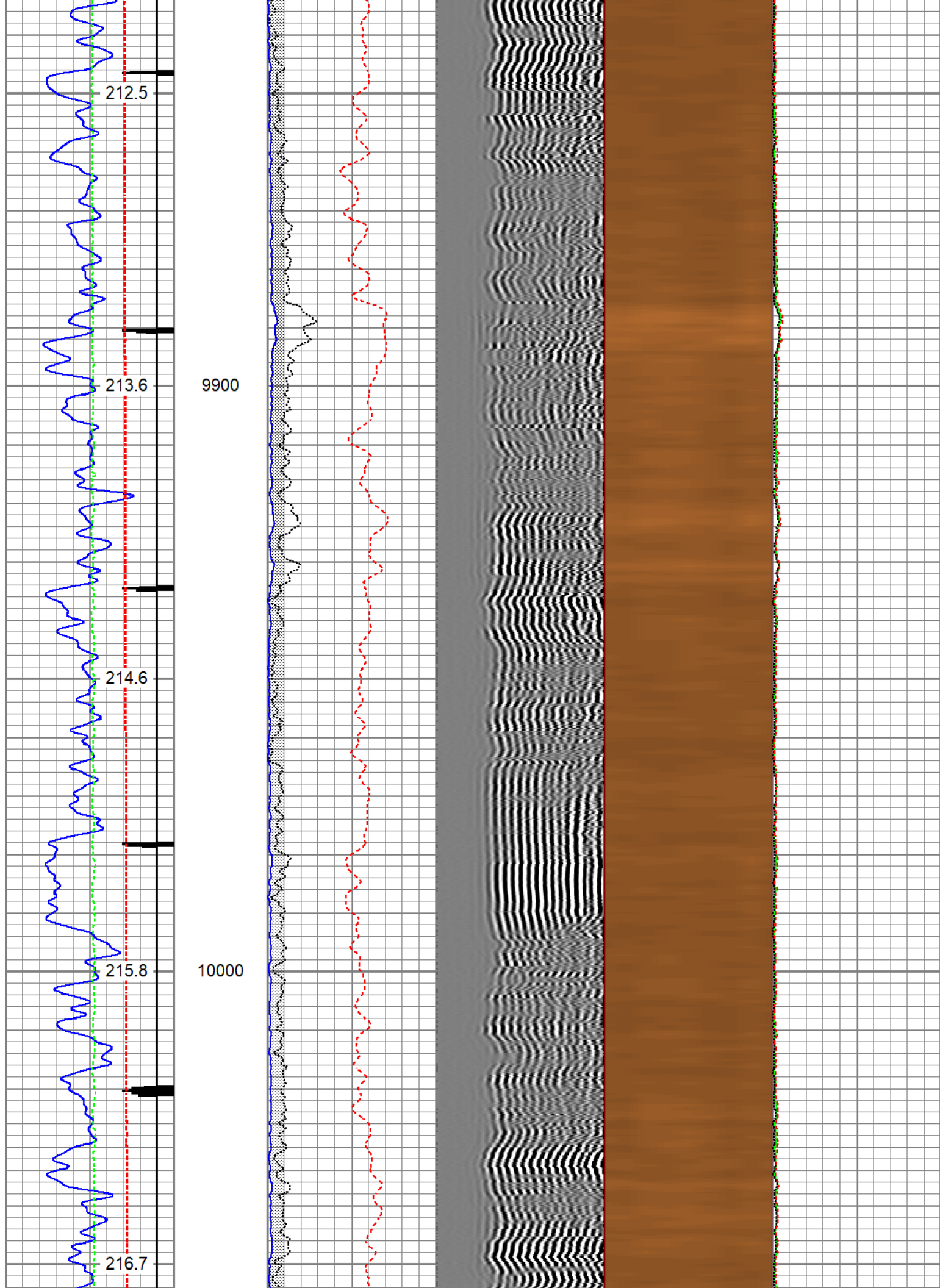


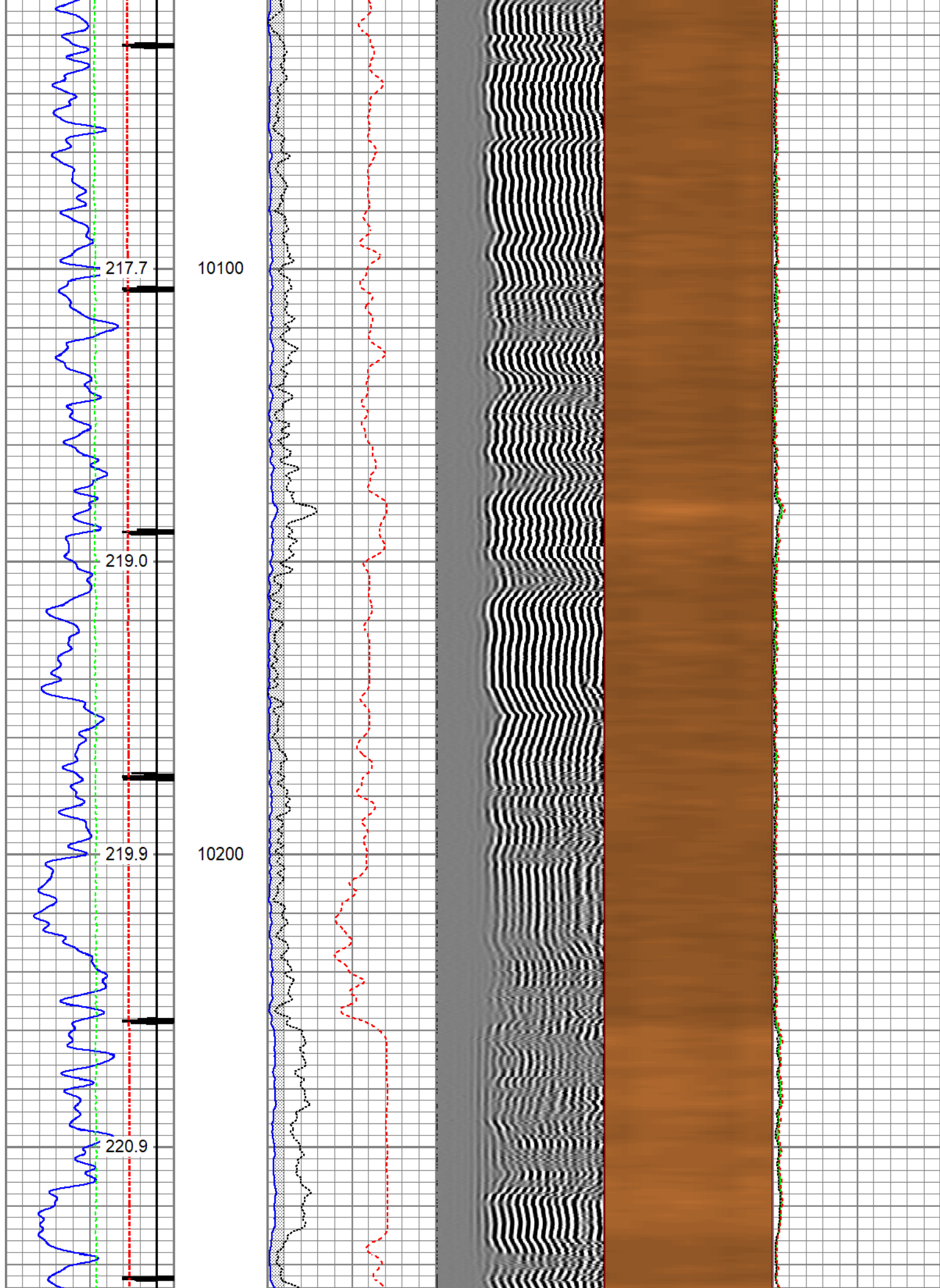


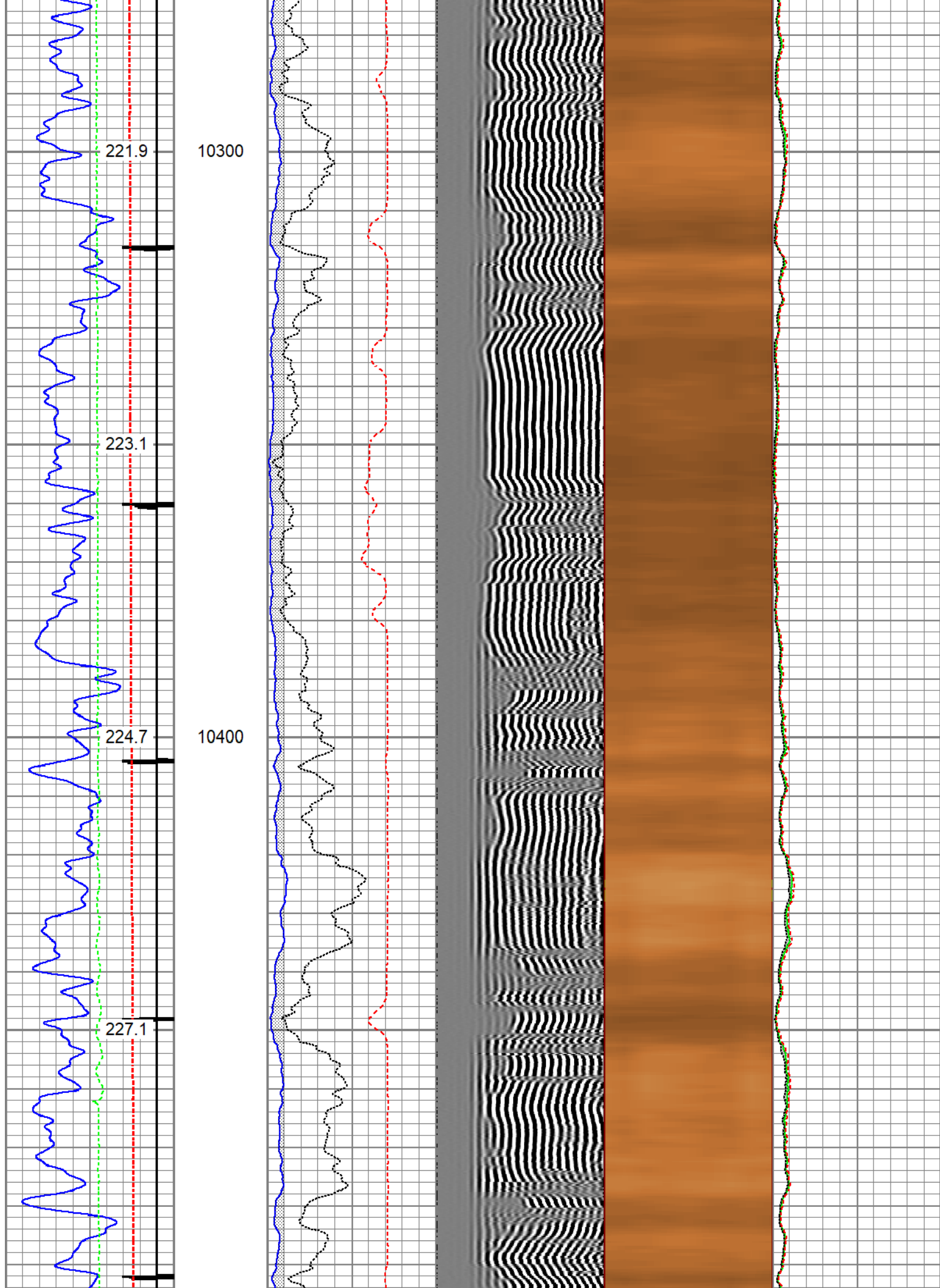


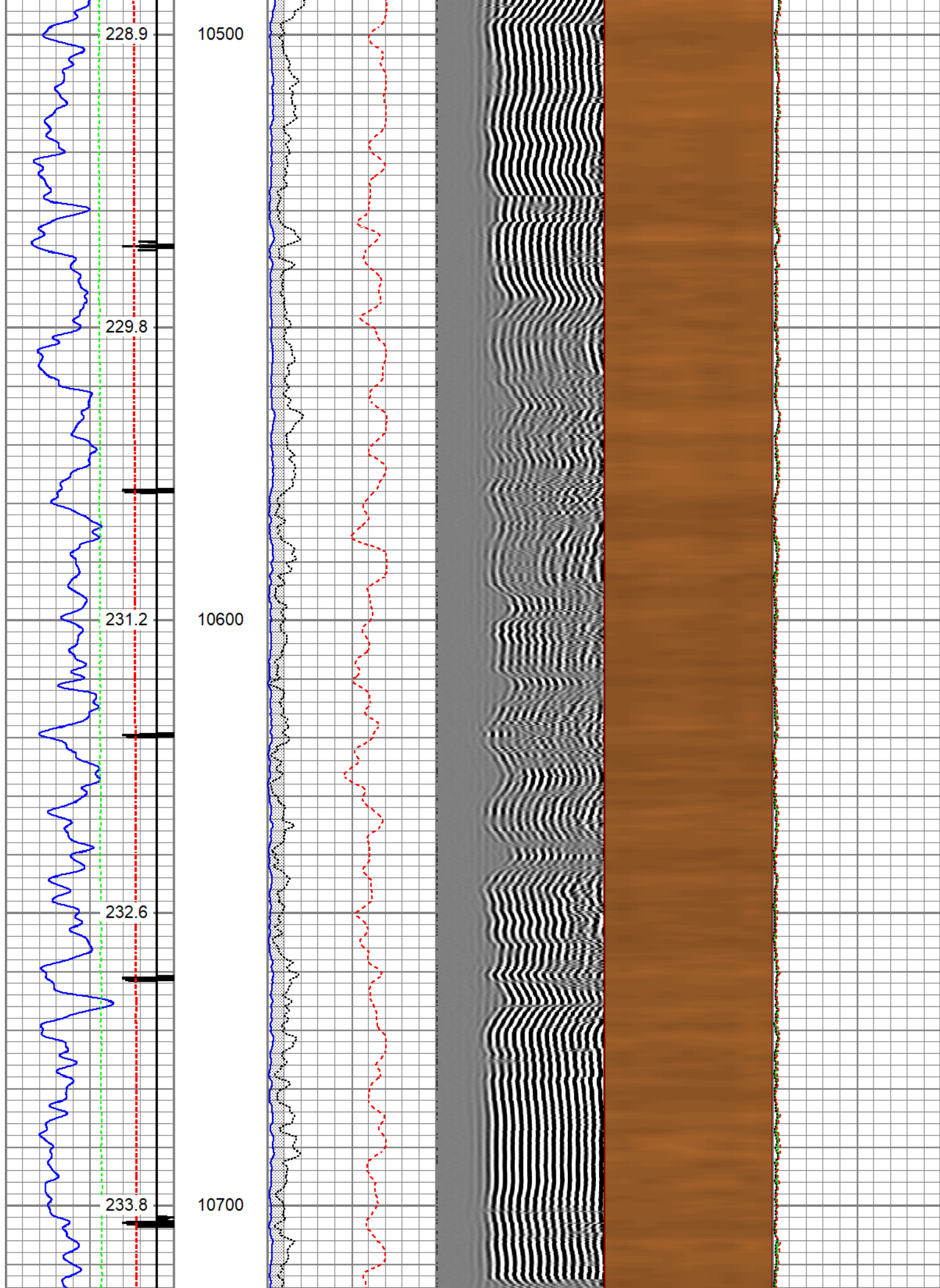


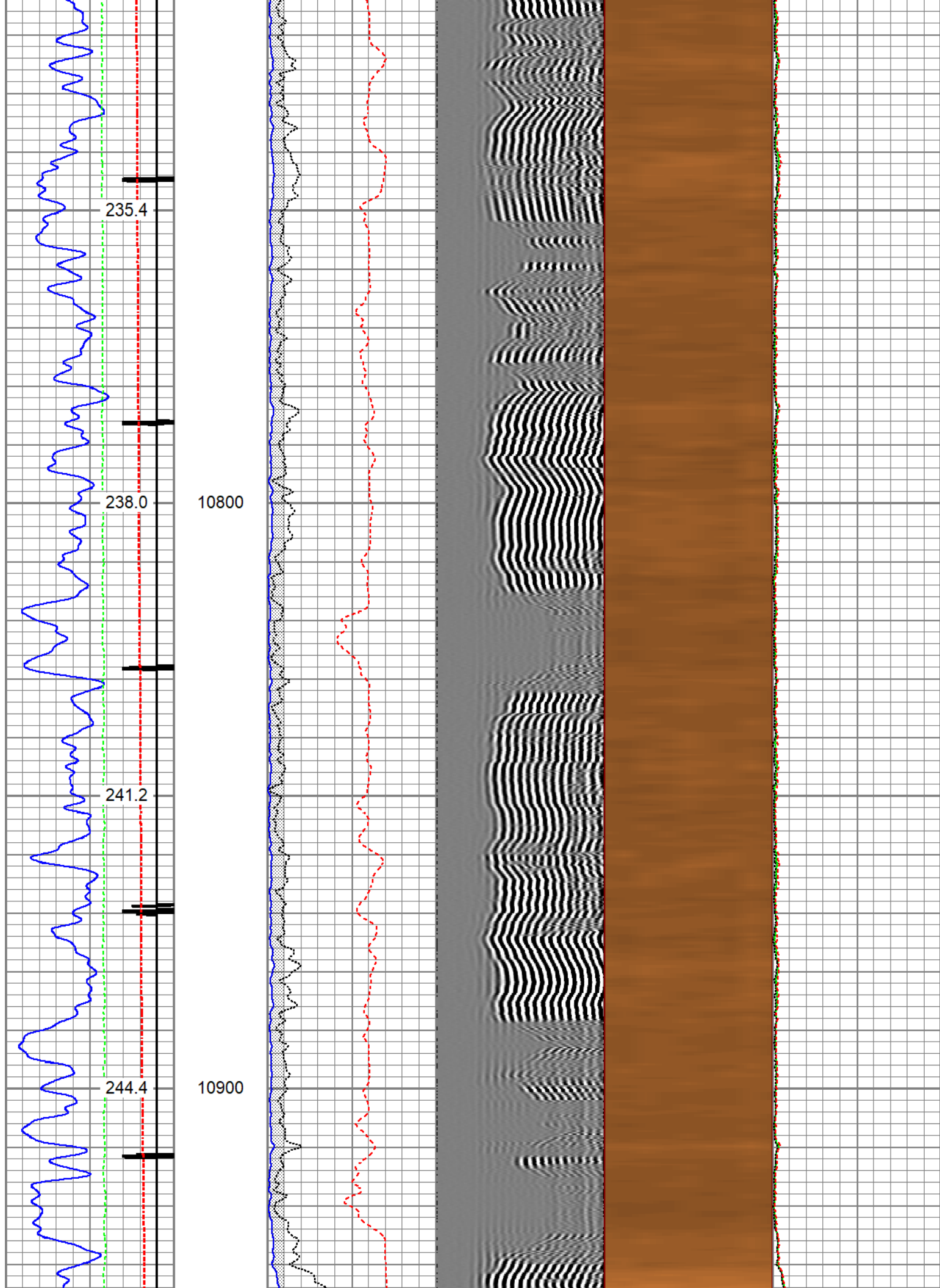


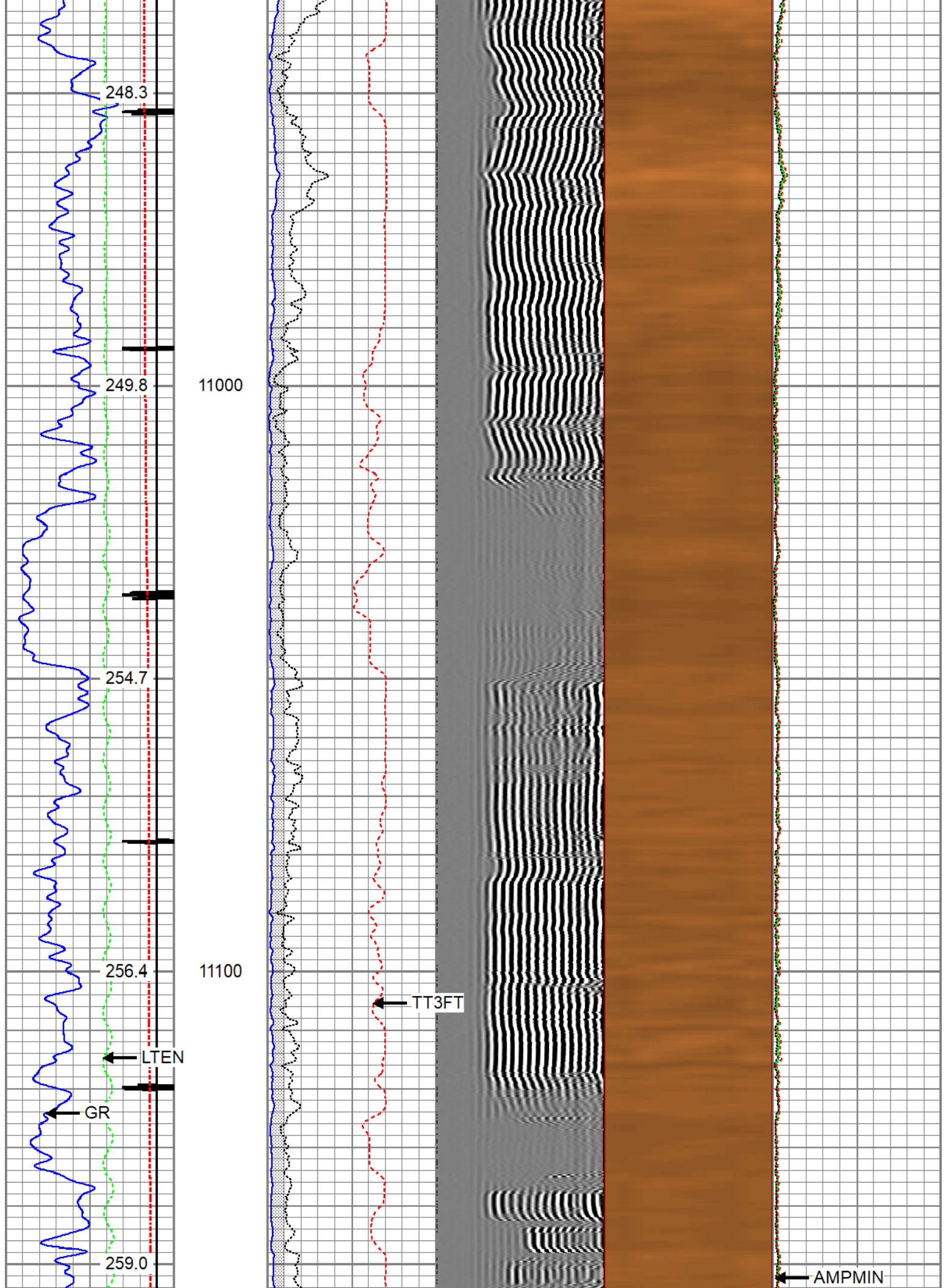


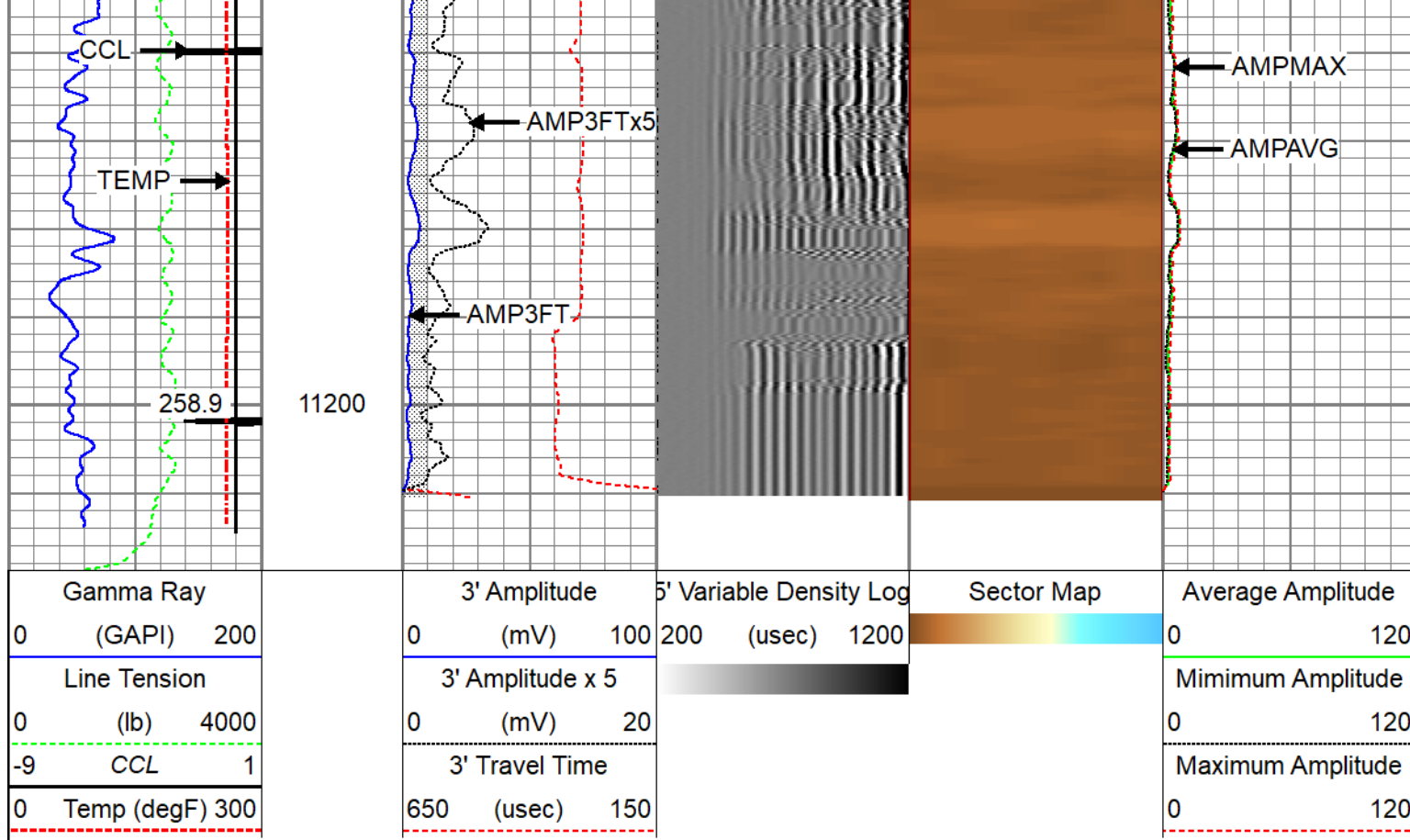








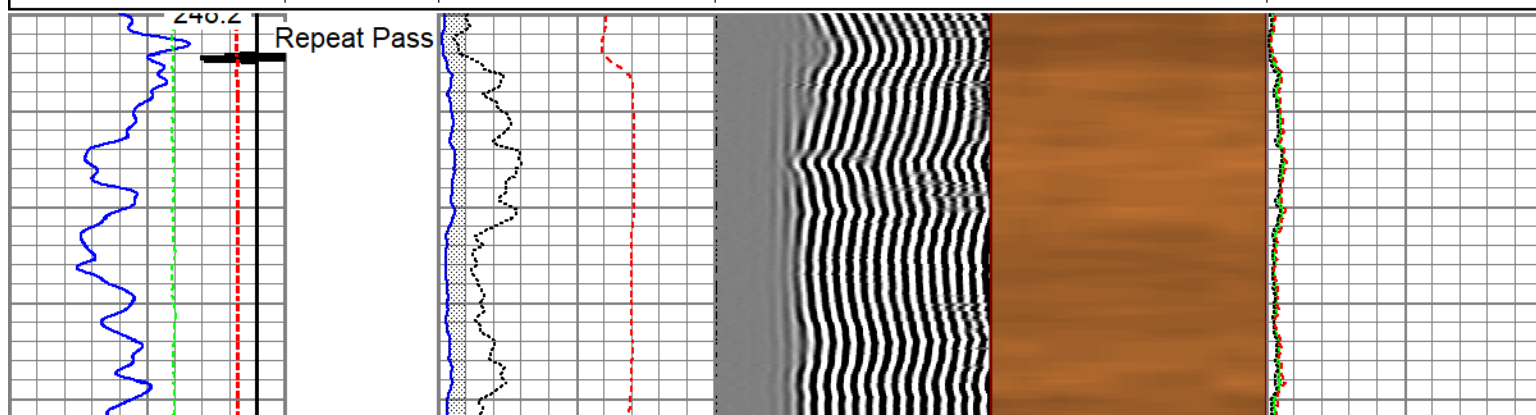
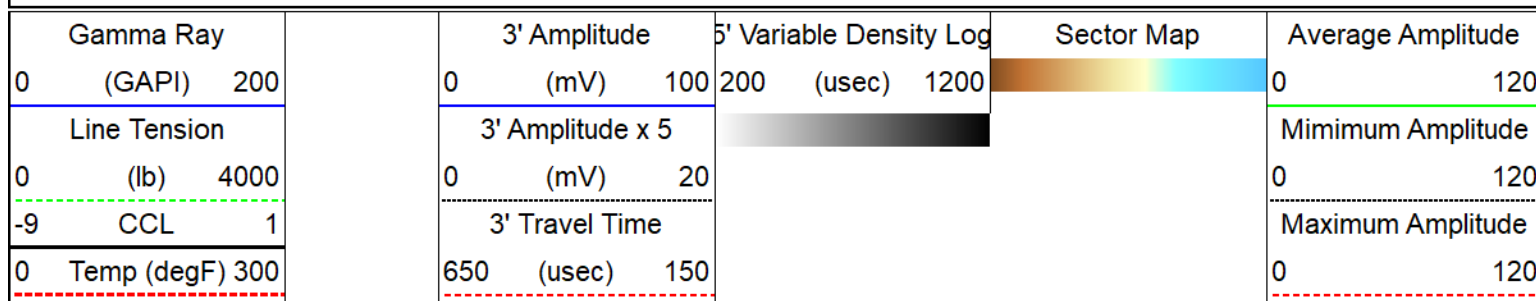


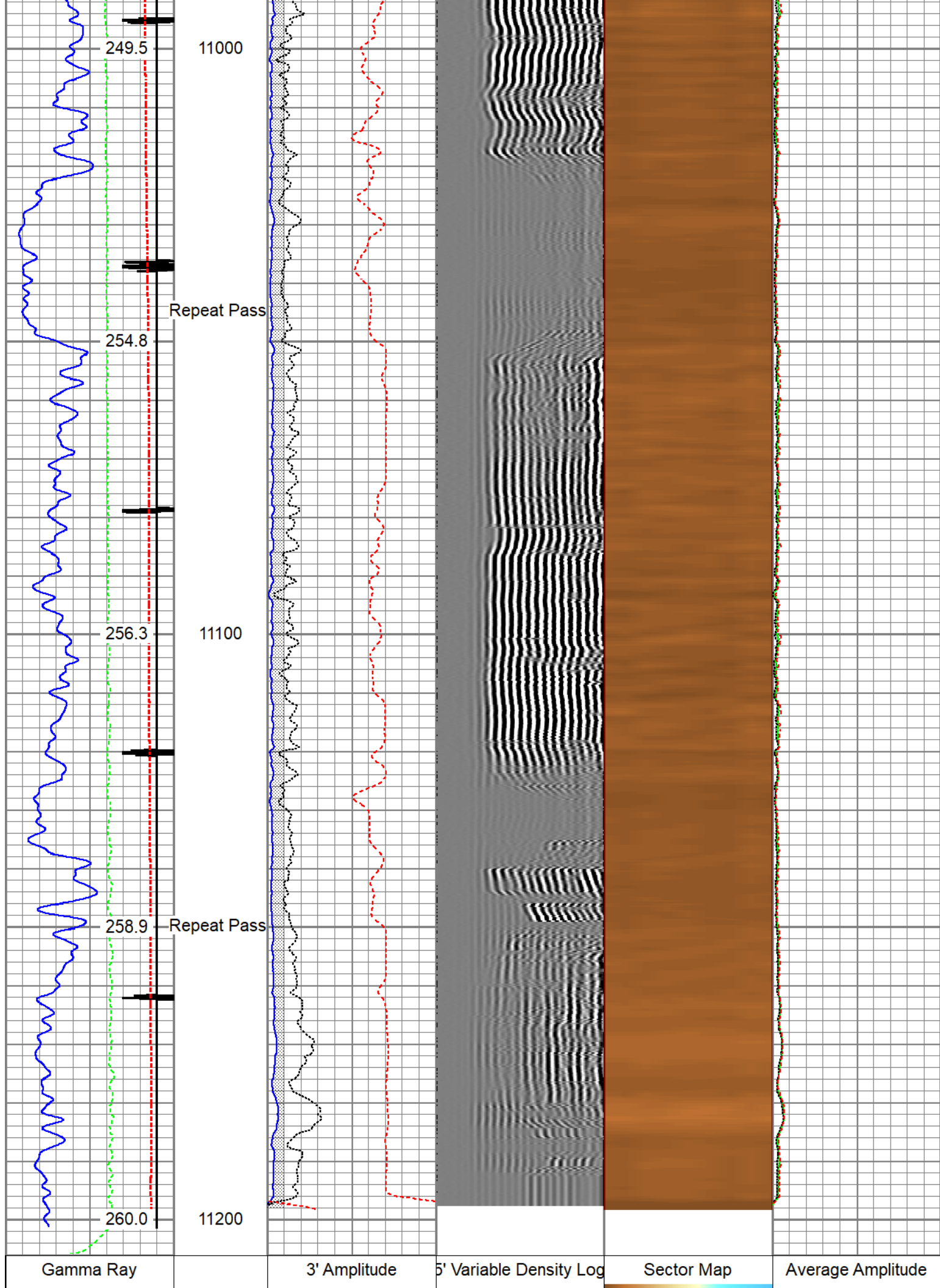




Repeat Pass 5" = 100'

Database File	tep_wmc fed 332-20_rcbl_1-4-2023.db
Dataset Pathname	repeat
Presentation Format	twgrcbl
Dataset Creation	Wed Jan 04 07:24:21 2023
Charted by	Depth in Feet scaled 1:240





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 332-20_rcbl_1-4-2023.db					
Dataset Pathname	main					
Dataset Creation	Wed Jan 04 07:34:23 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:	4.500	in				
Calibration Depth:	278.924	ft				
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

	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
Z Accelerometer	1.47	886.18	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GCT_FMWR	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
mSec_Count	13.85					
RBT_Status	13.85					
Error_Ct	13.85					
WVFS8	9.35		RBT8acc-Probe275acc (FW1312-30) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
WVFS7	9.35					
WVFS6	9.35					
WVFS5	9.35					
WVFS4	9.35					
WVFS3	9.35					
WVFS2	9.35					
WVFS1	9.35					
WVF3FT	9.35					
WVF5ET	8.35					

[illegible]