



Radial Cement Bond  
Gamma Ray  
Casing Collar Log

[illegible]

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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 Kelly Bushing at 30 FT  
Marker joint logged from 6894 FT to 6904 FT

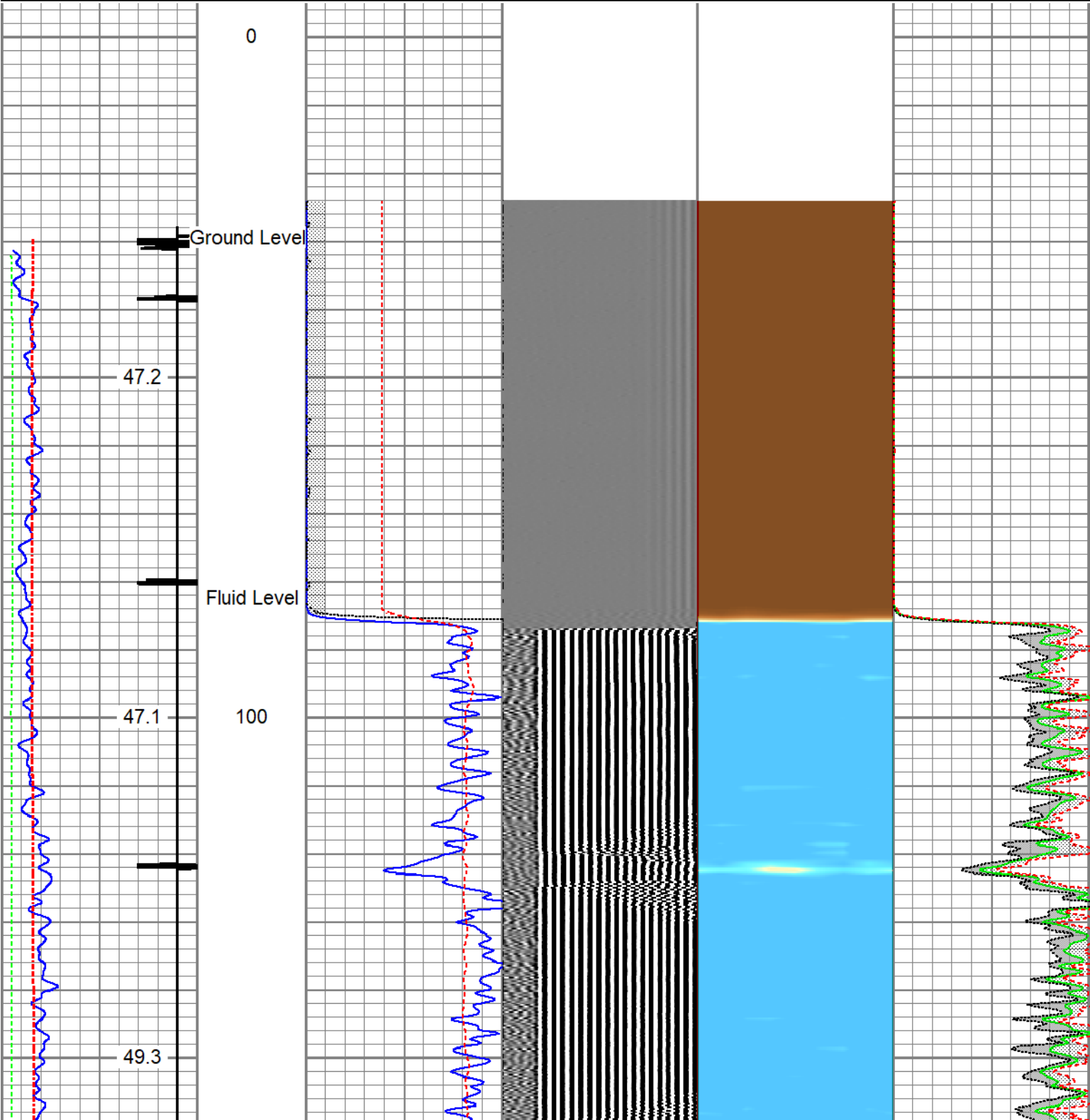
Thank you for choosing The Wireline Group!

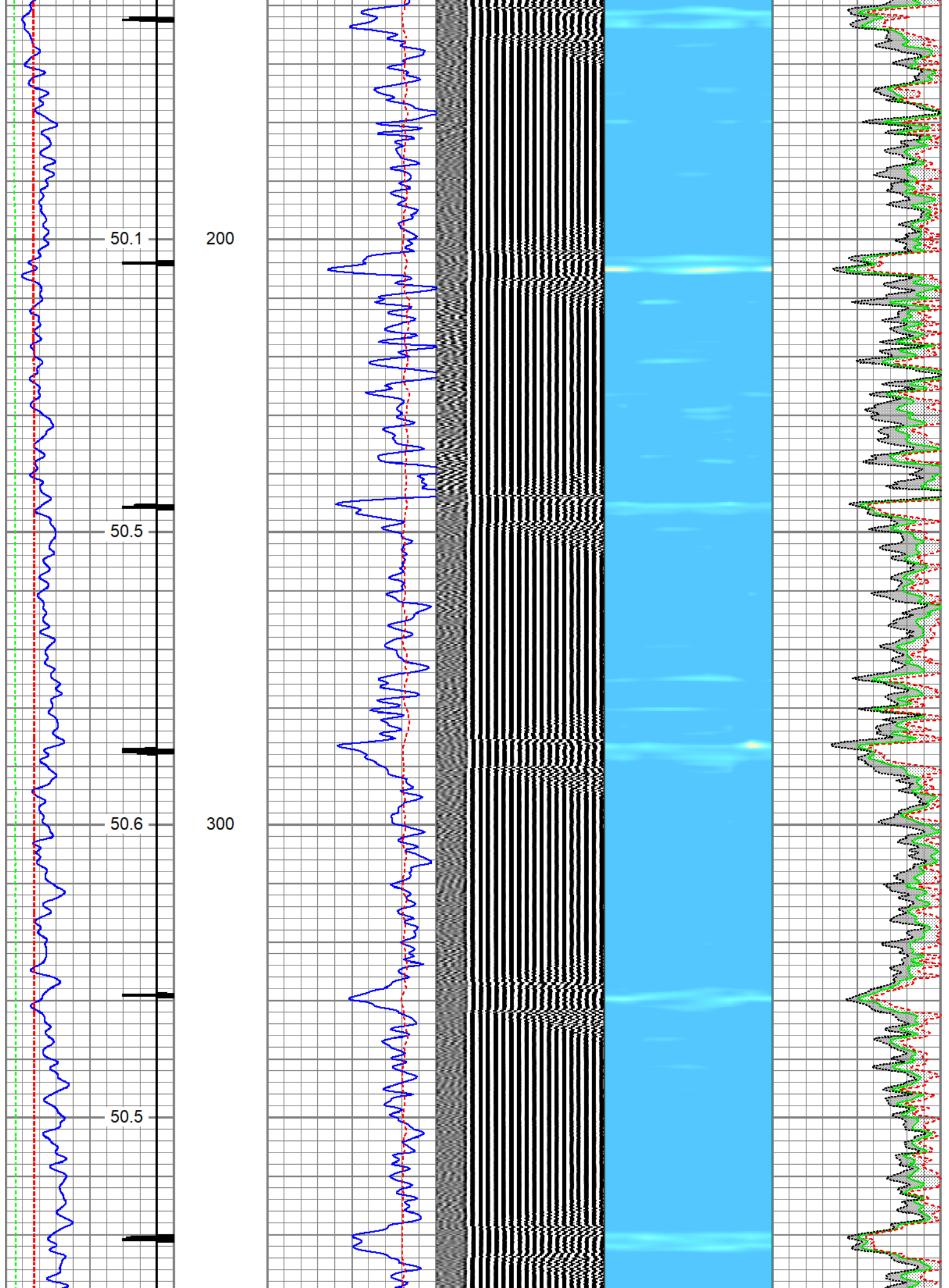


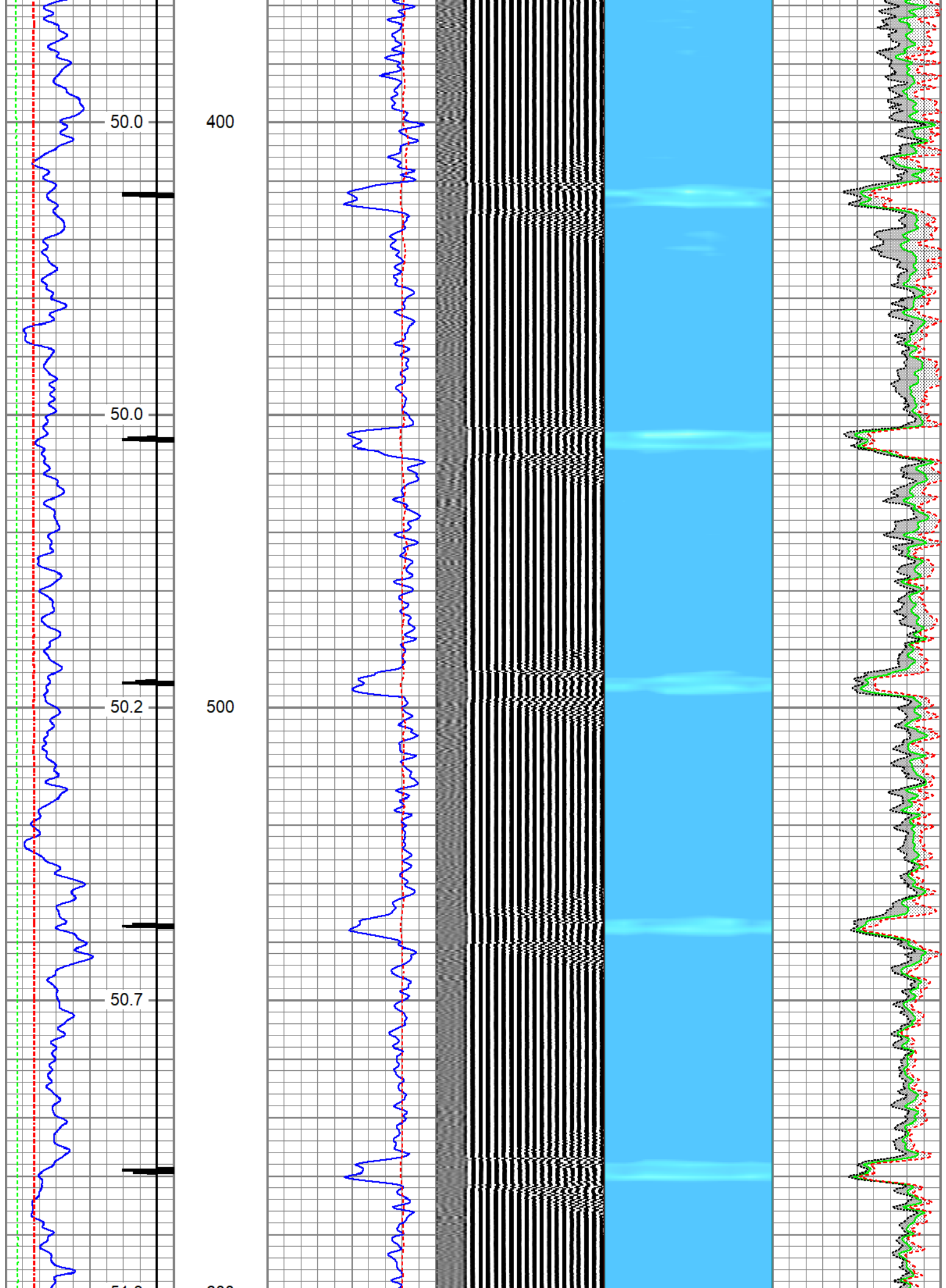
Main Pass 5" = 100'

Database File	tep_wmc fed 432-20_rcbl_1-3-2023.db
Dataset Pathname	main
Presentation Format	twgrcbl
Dataset Creation	Tue Jan 03 15:34:43 2023
Charted by	Depth in Feet scaled 1:240

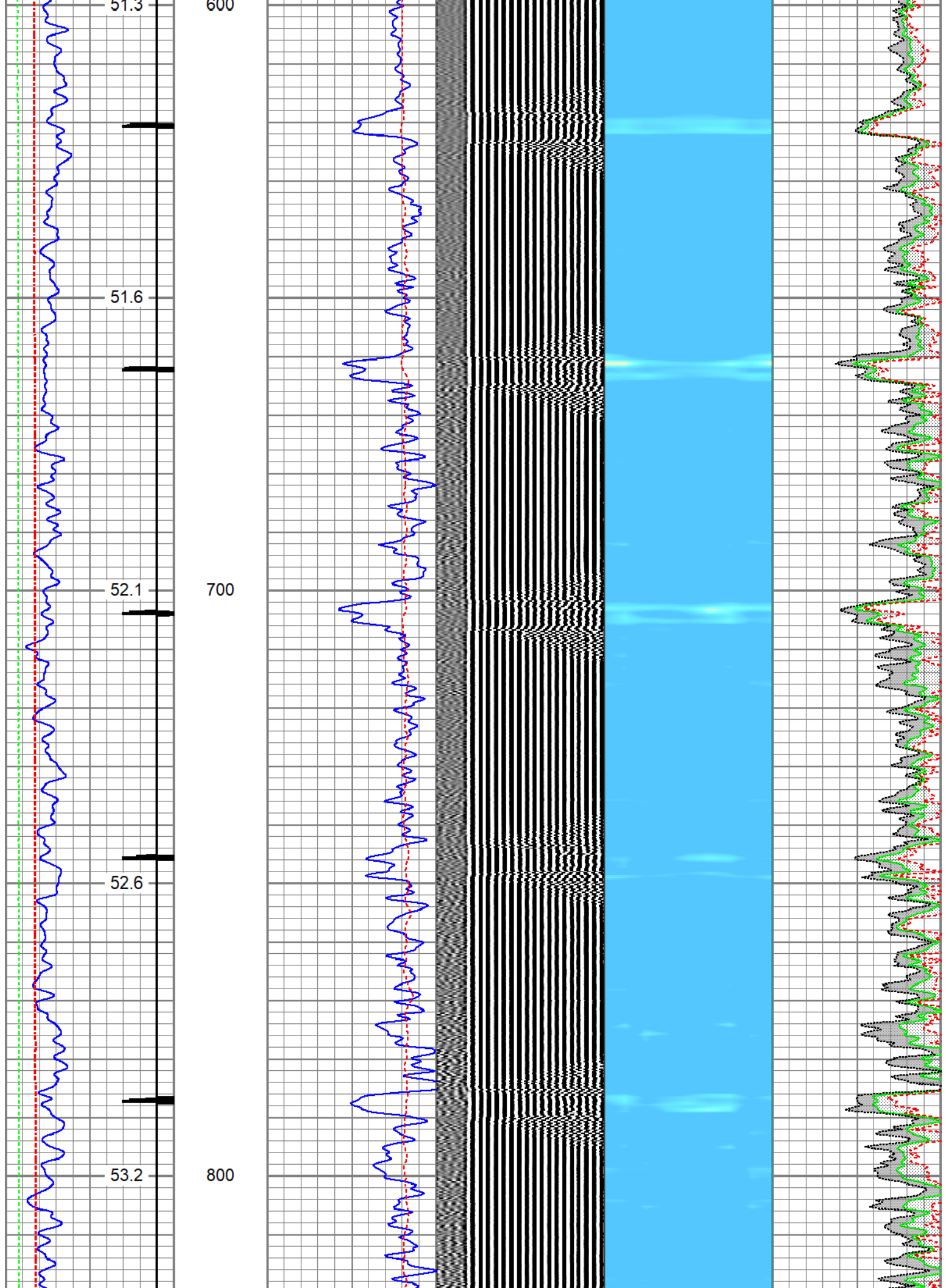
Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 200		0 (mV) 100	200 (usec) 1200		0 120
Line Tension		3' Amplitude x 5			Minimum Amplitude
0 (lb) 4000		0 (mV) 20			0 120
-9 CCL 1		3' Travel Time			Maximum Amplitude
0 Temp (degF) 300		650 (usec) 150			0 120

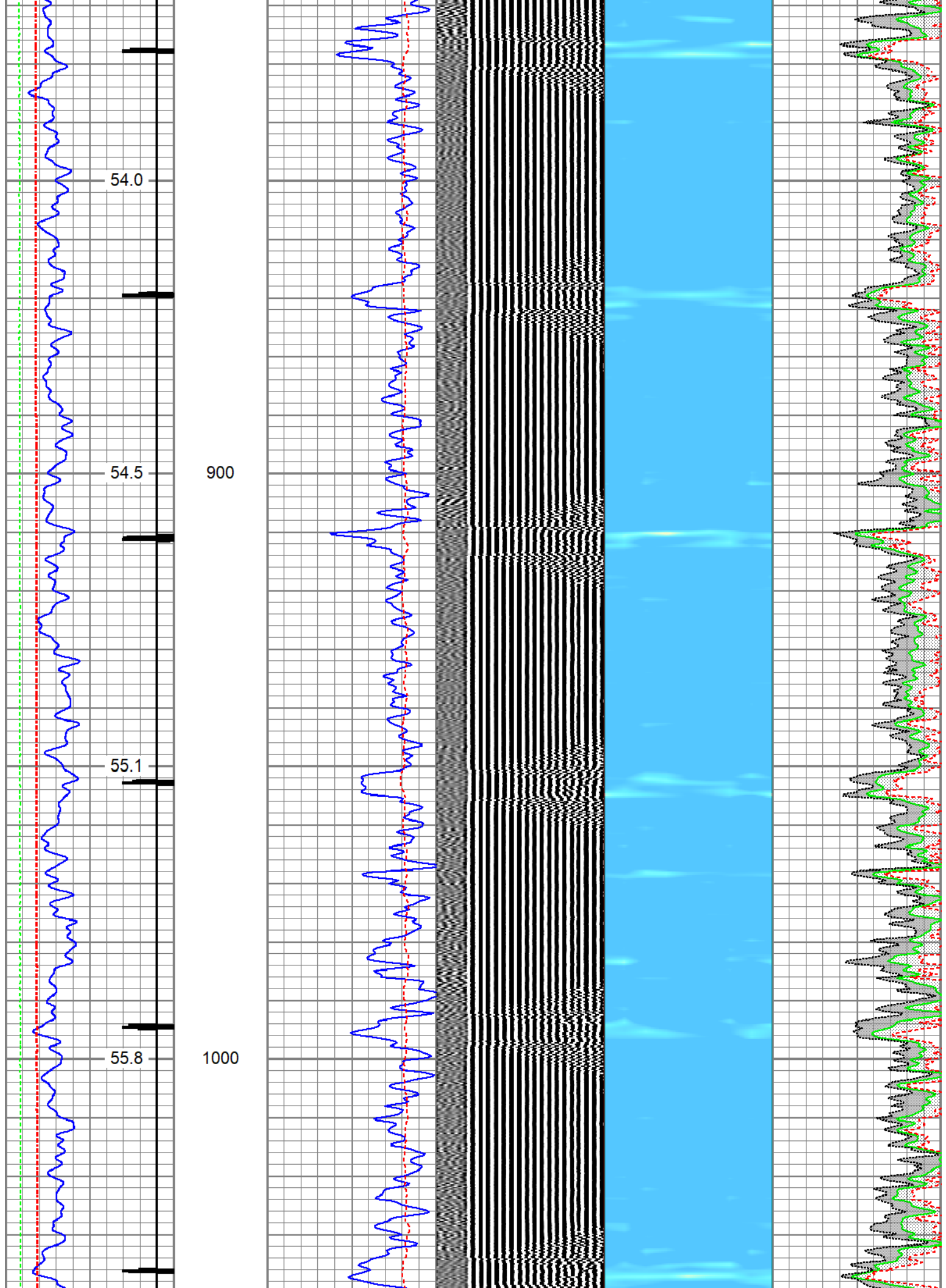


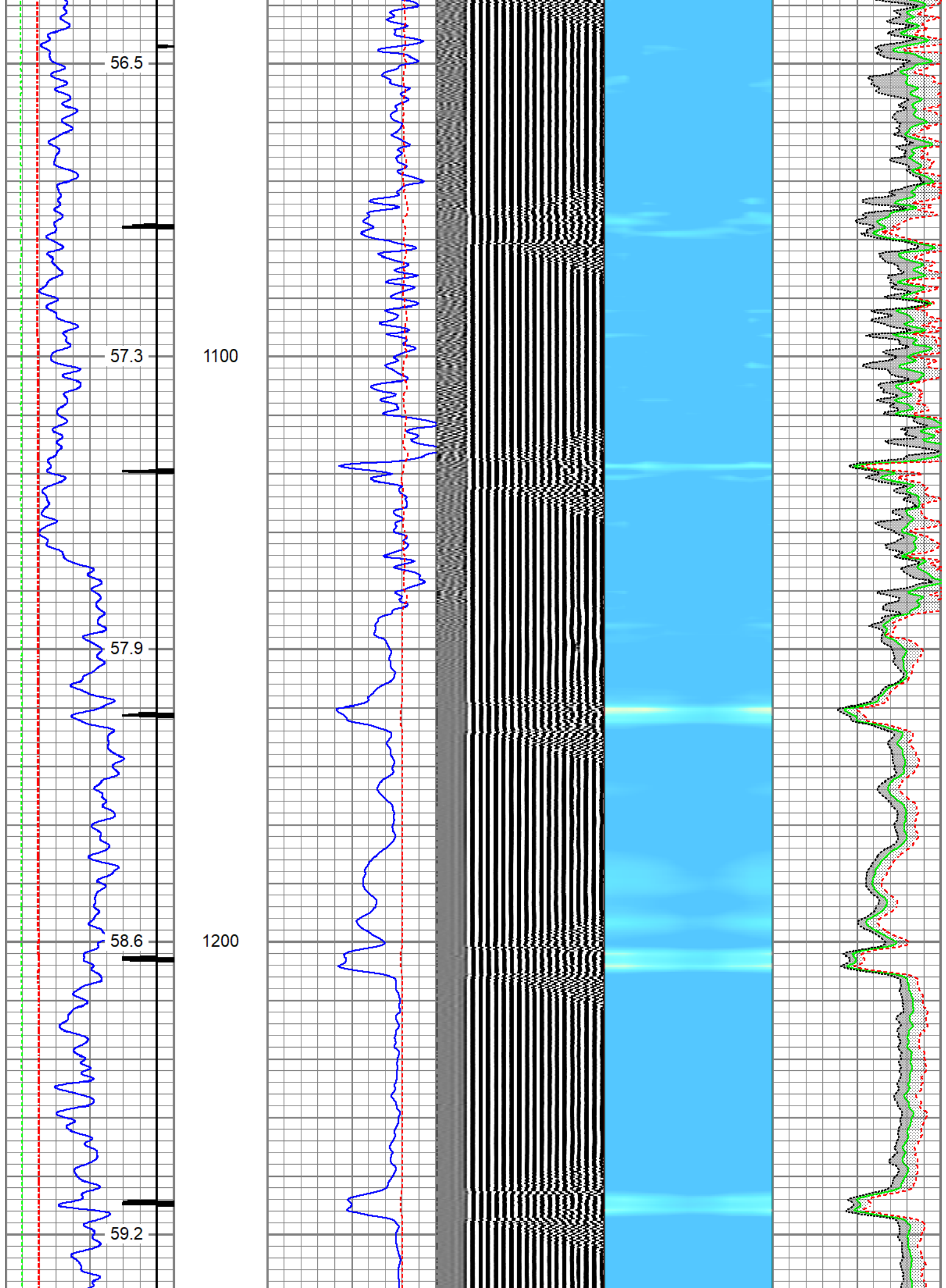




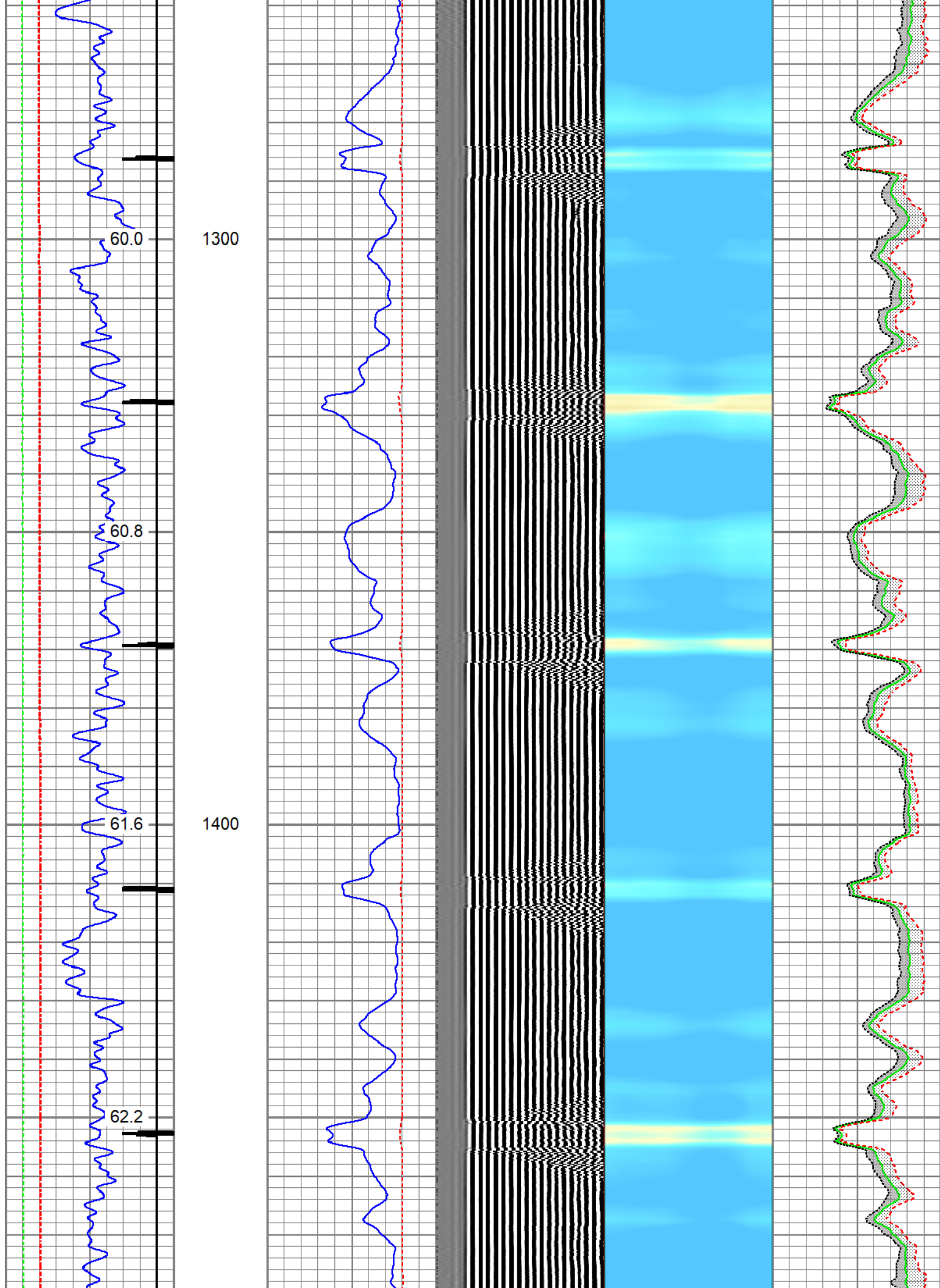




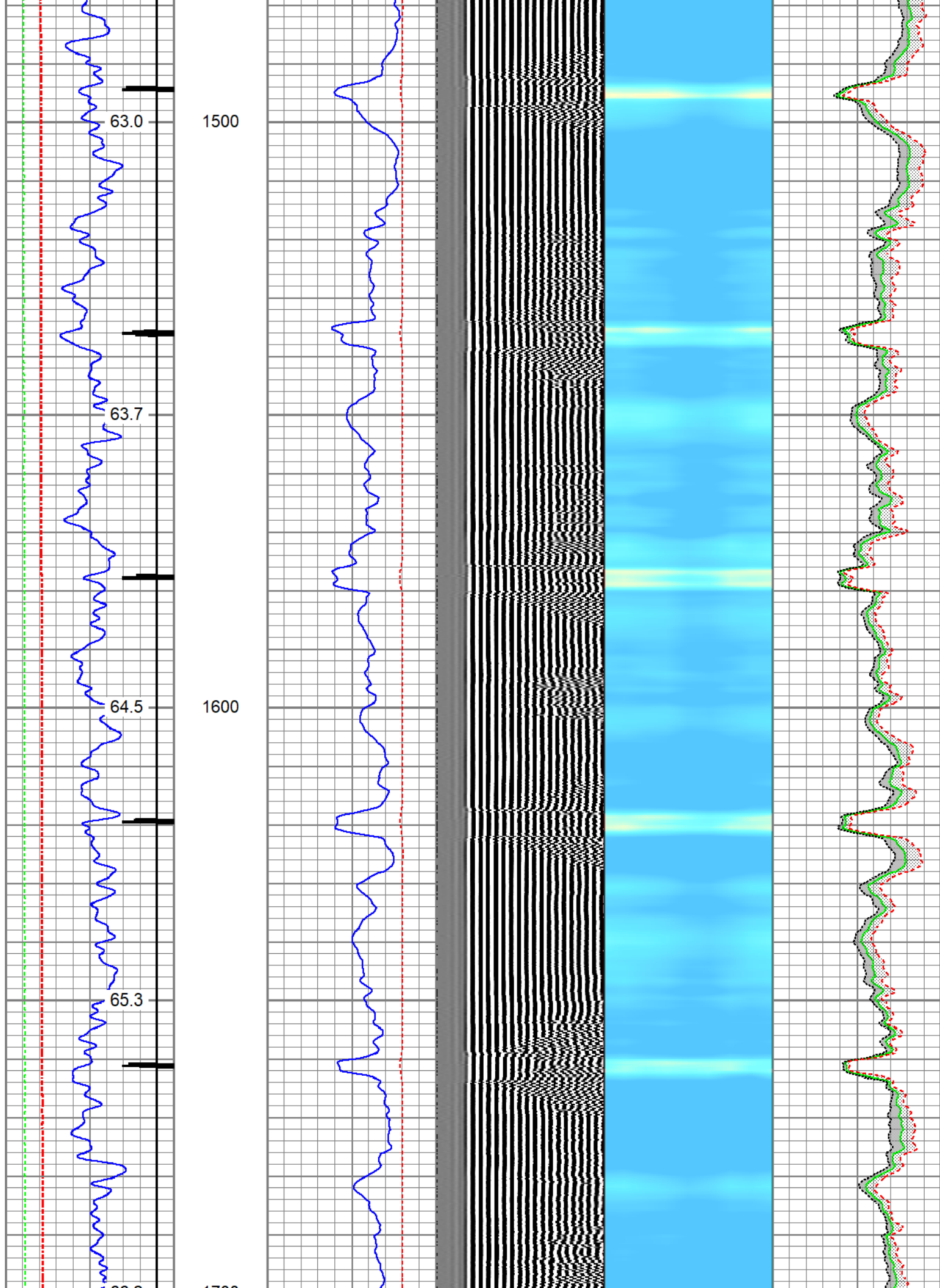


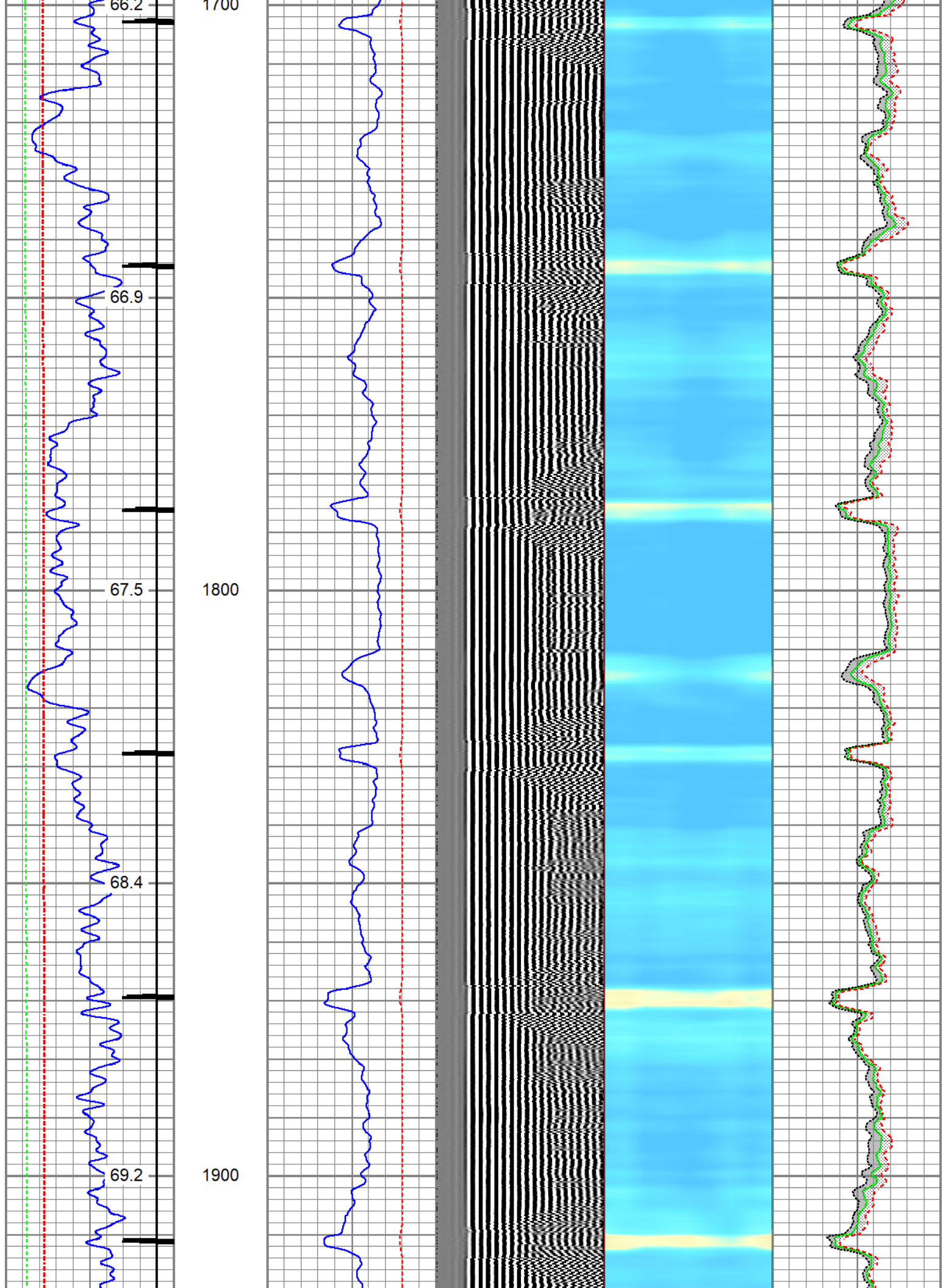


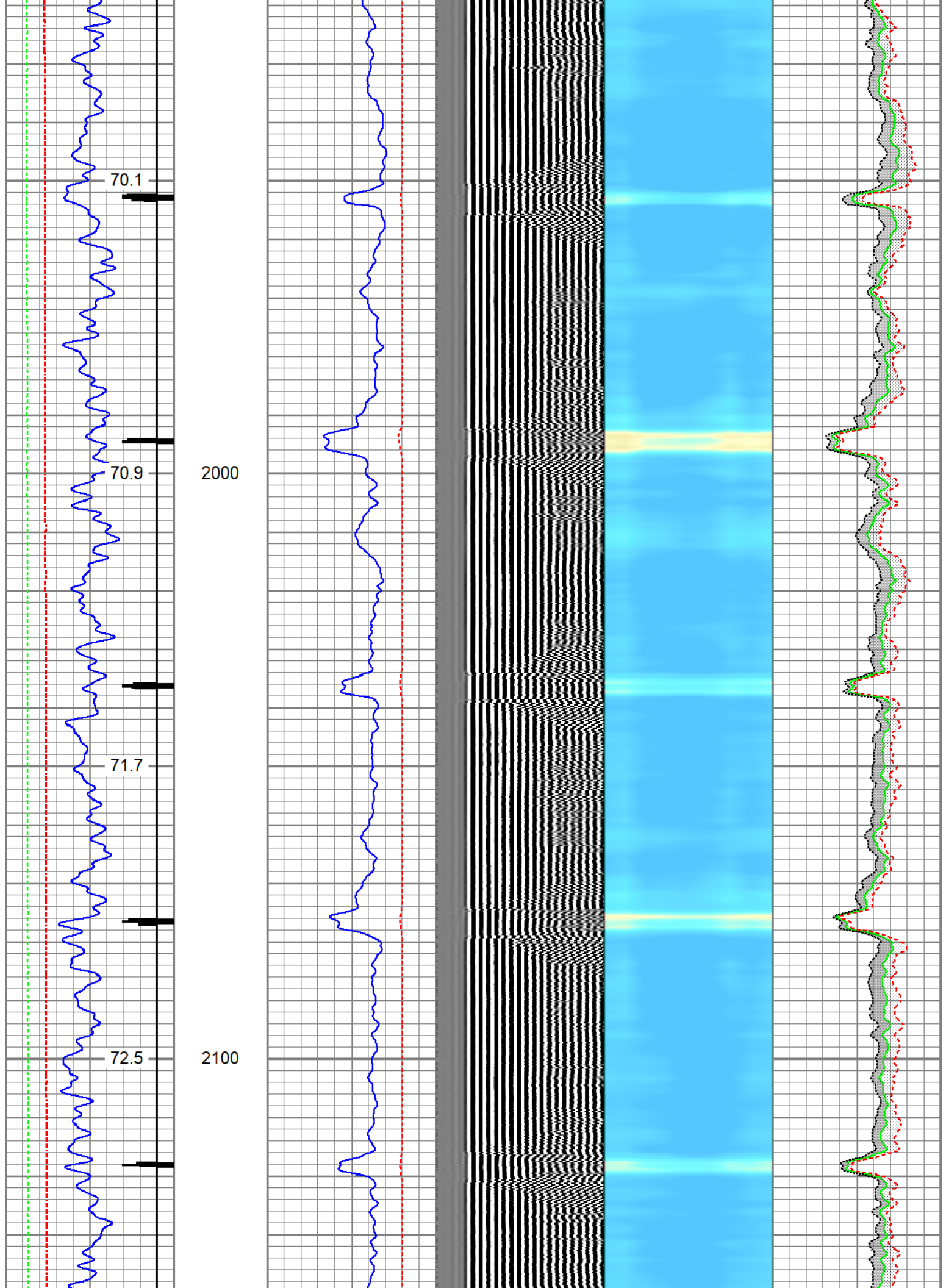




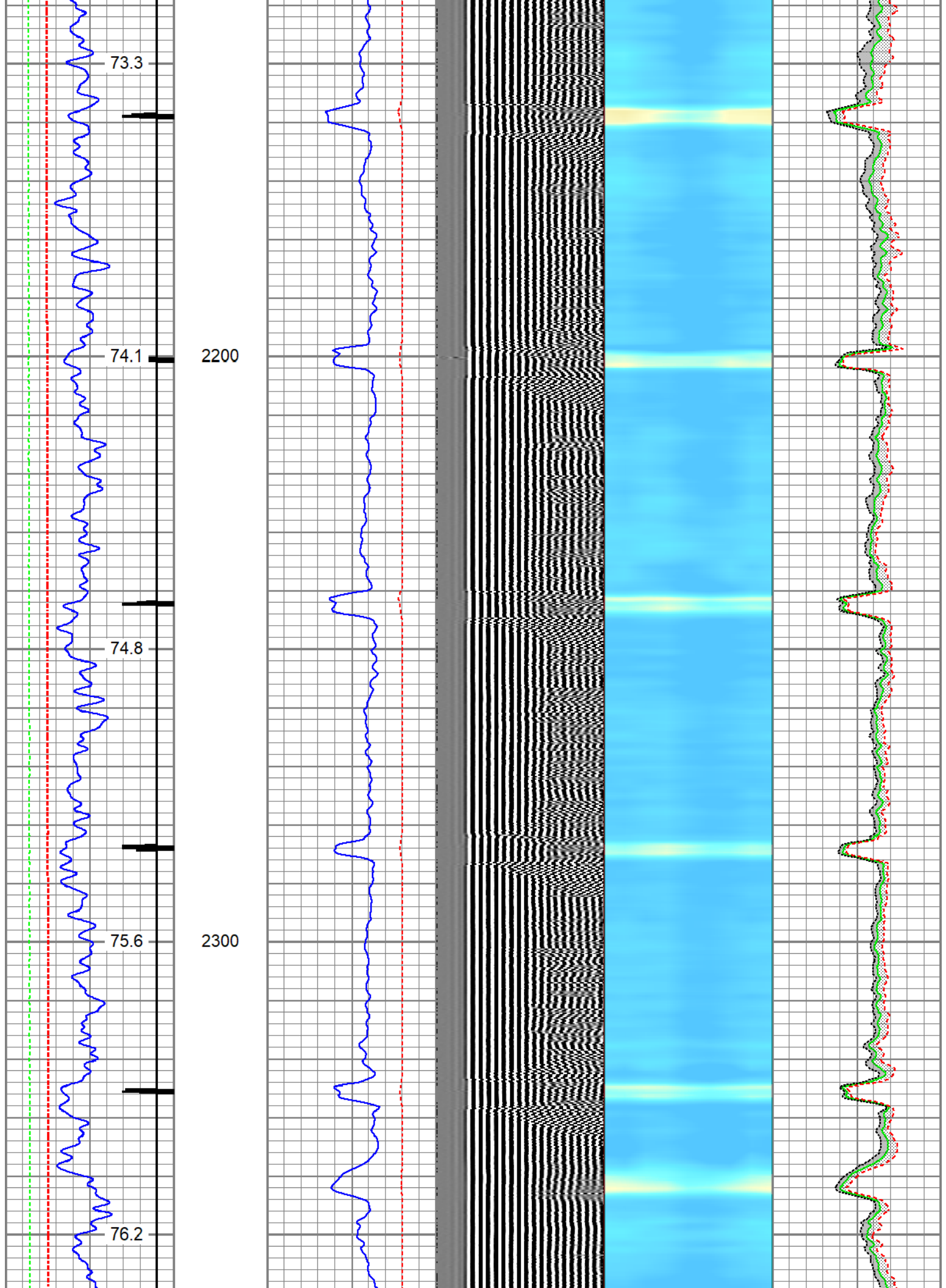




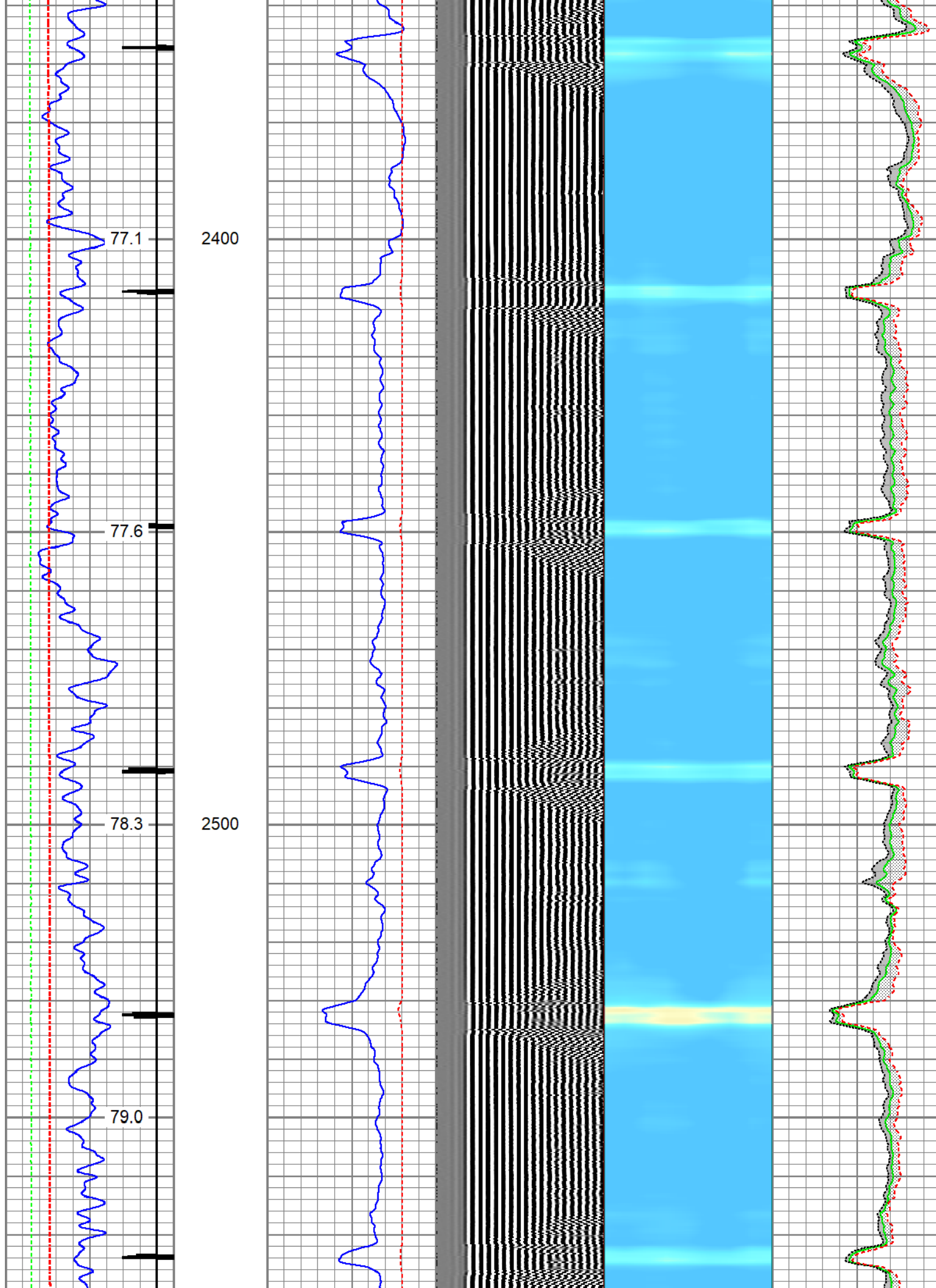


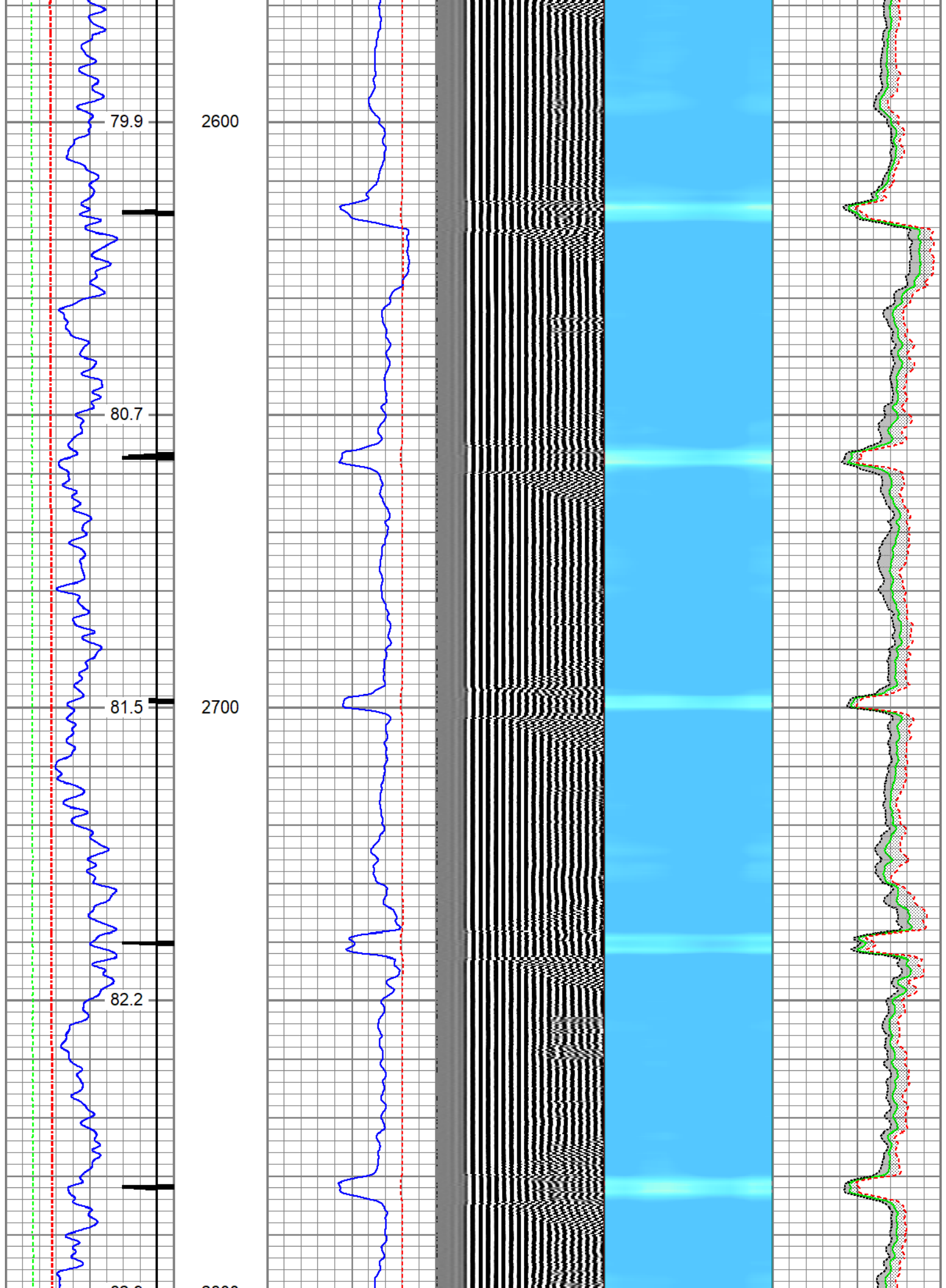


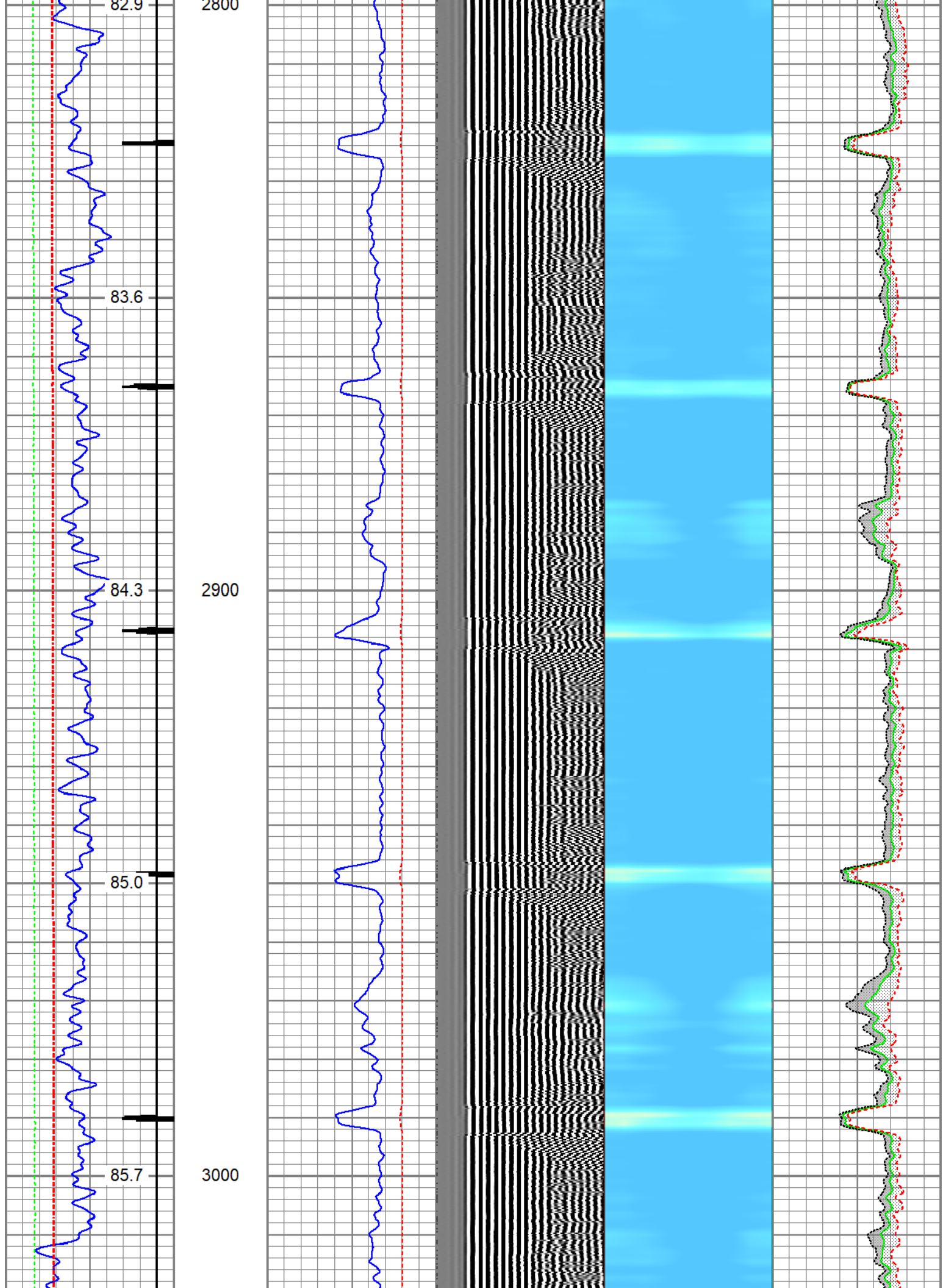




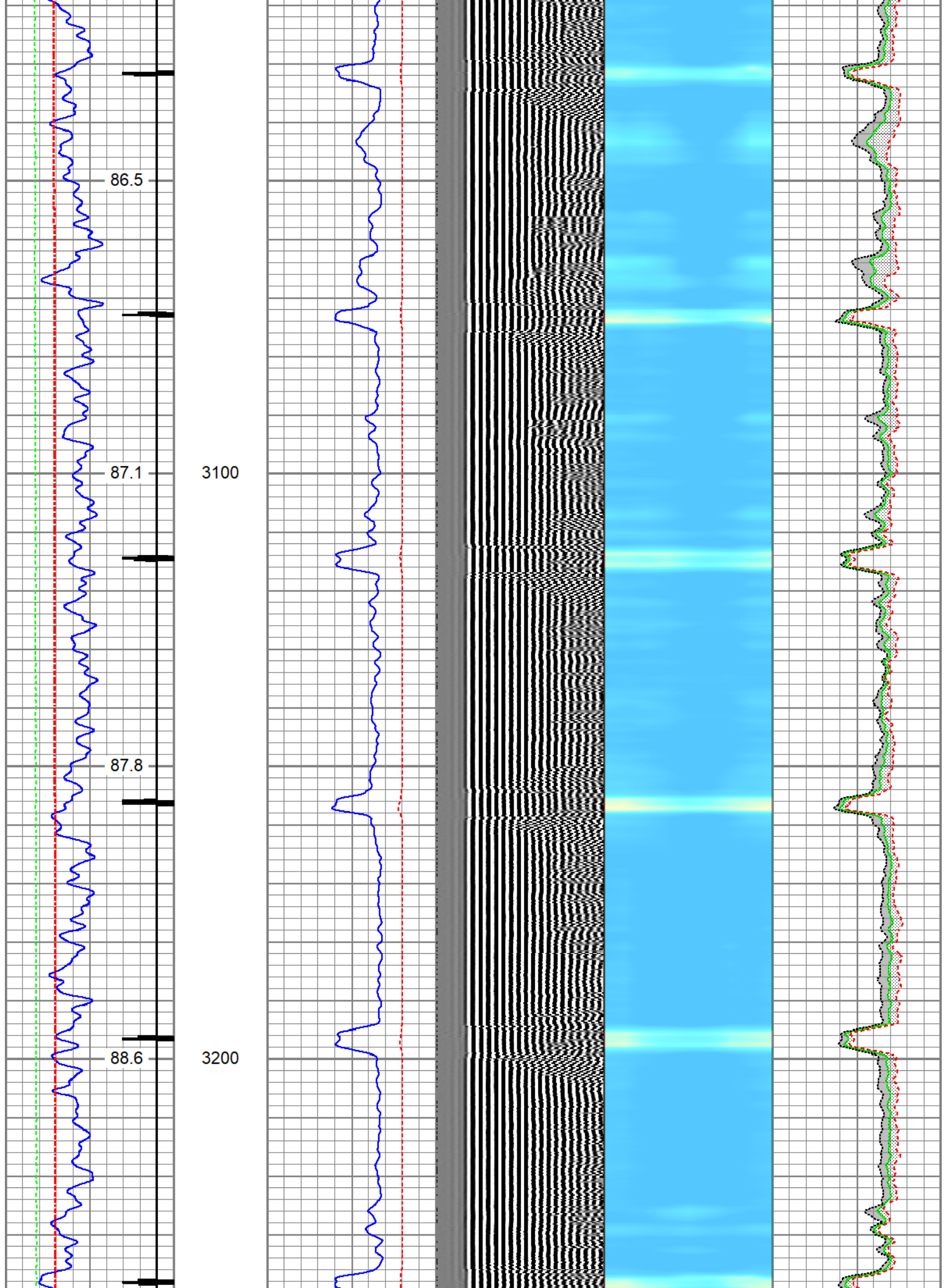




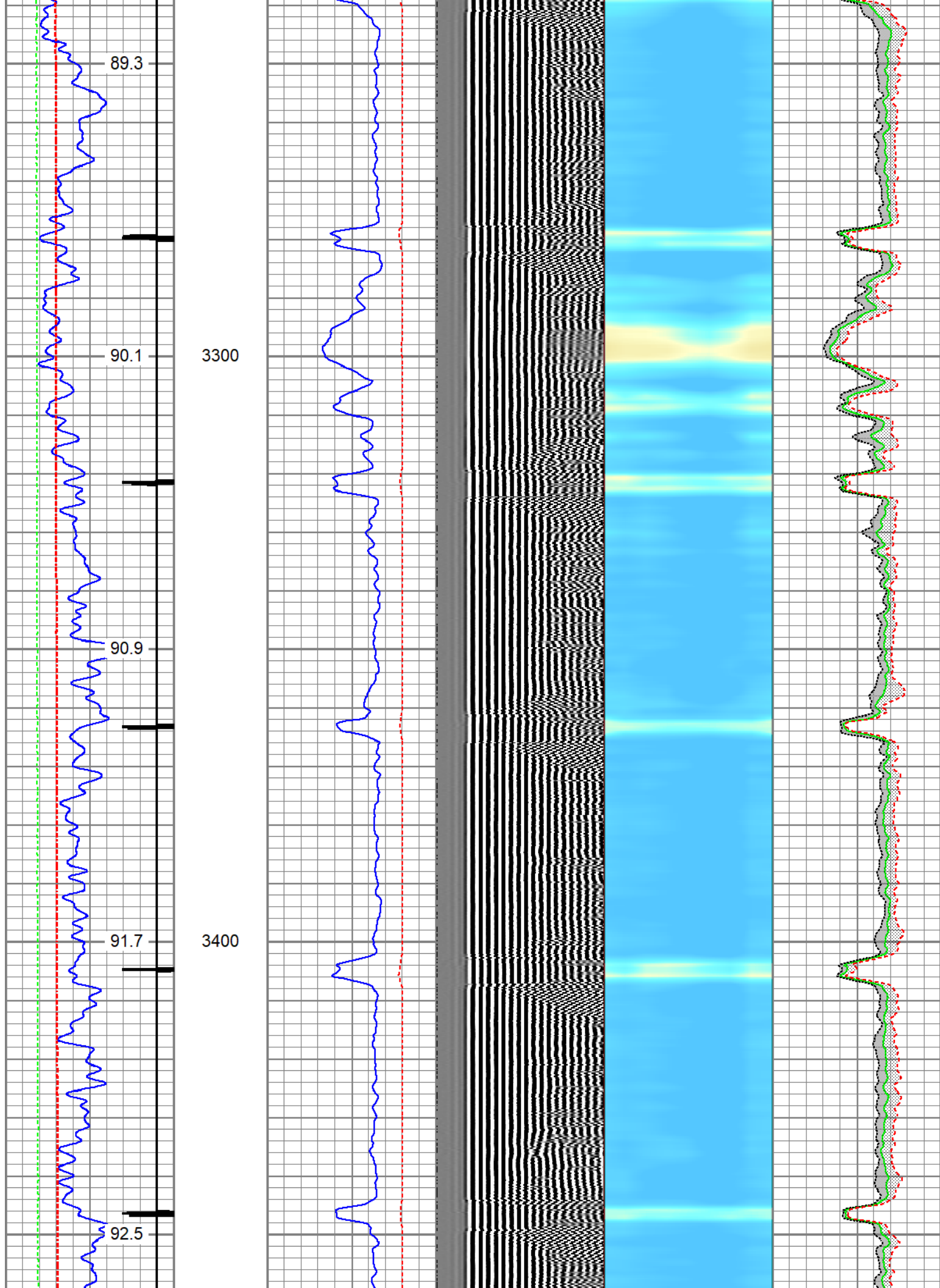


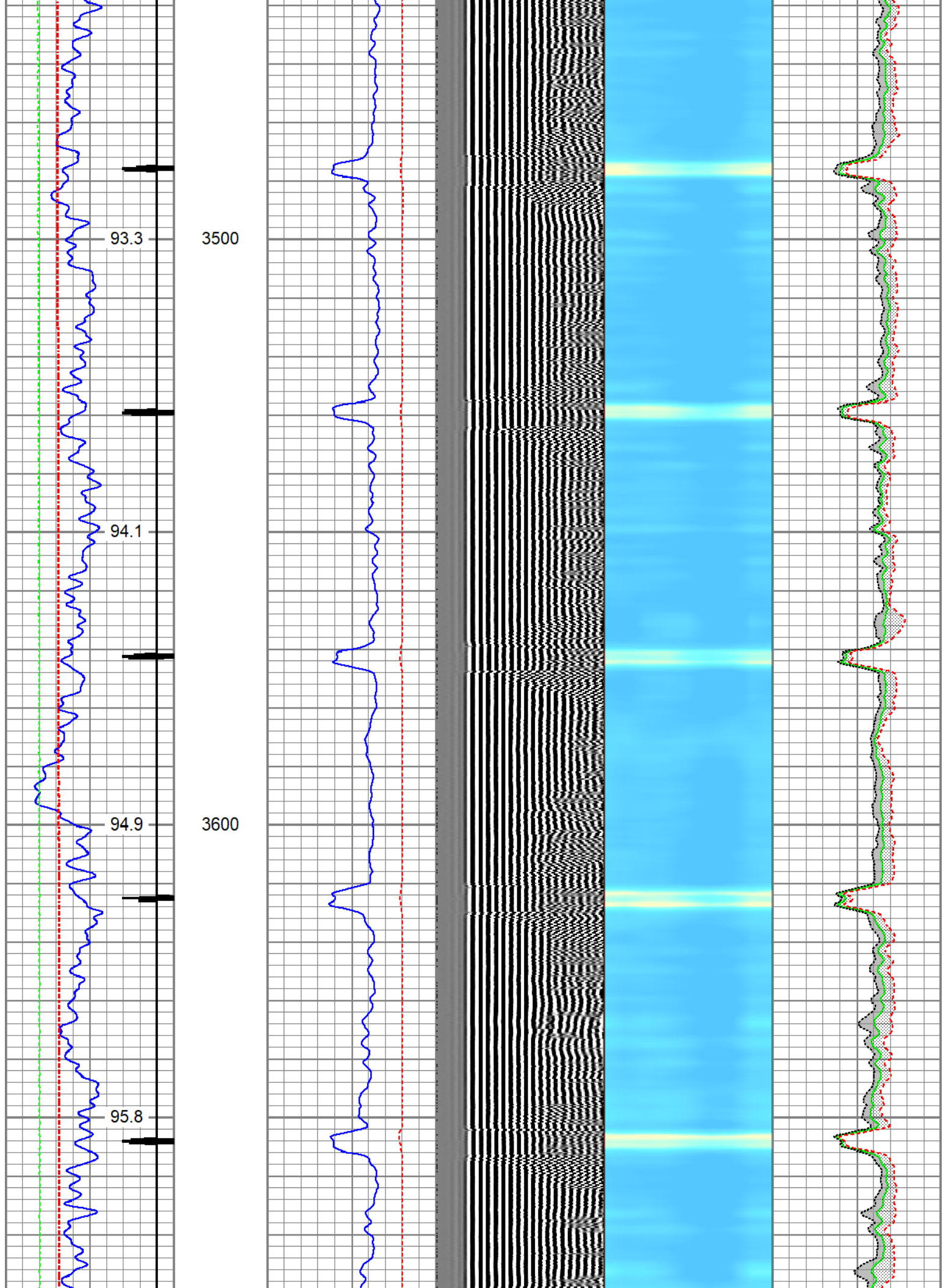


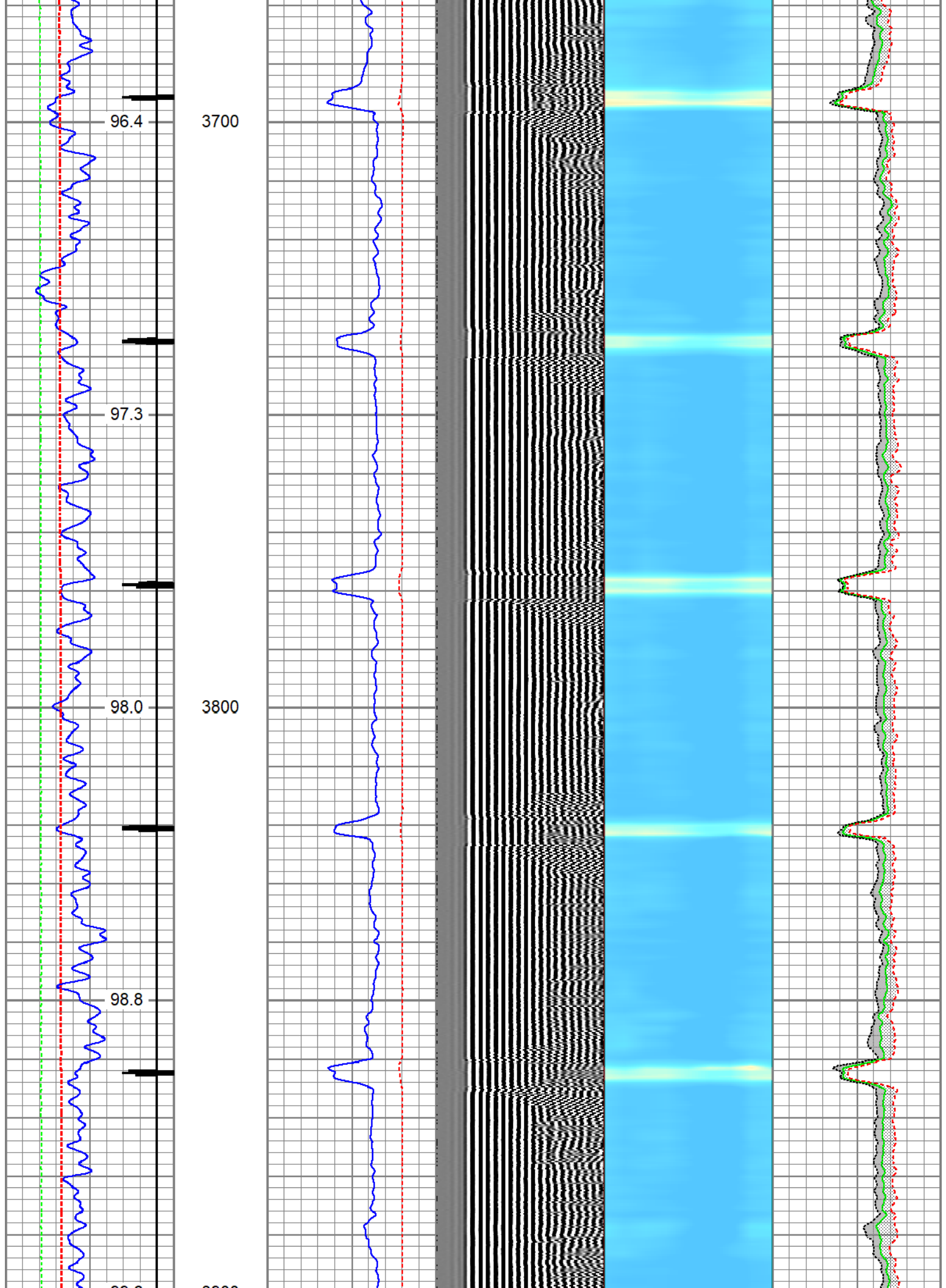




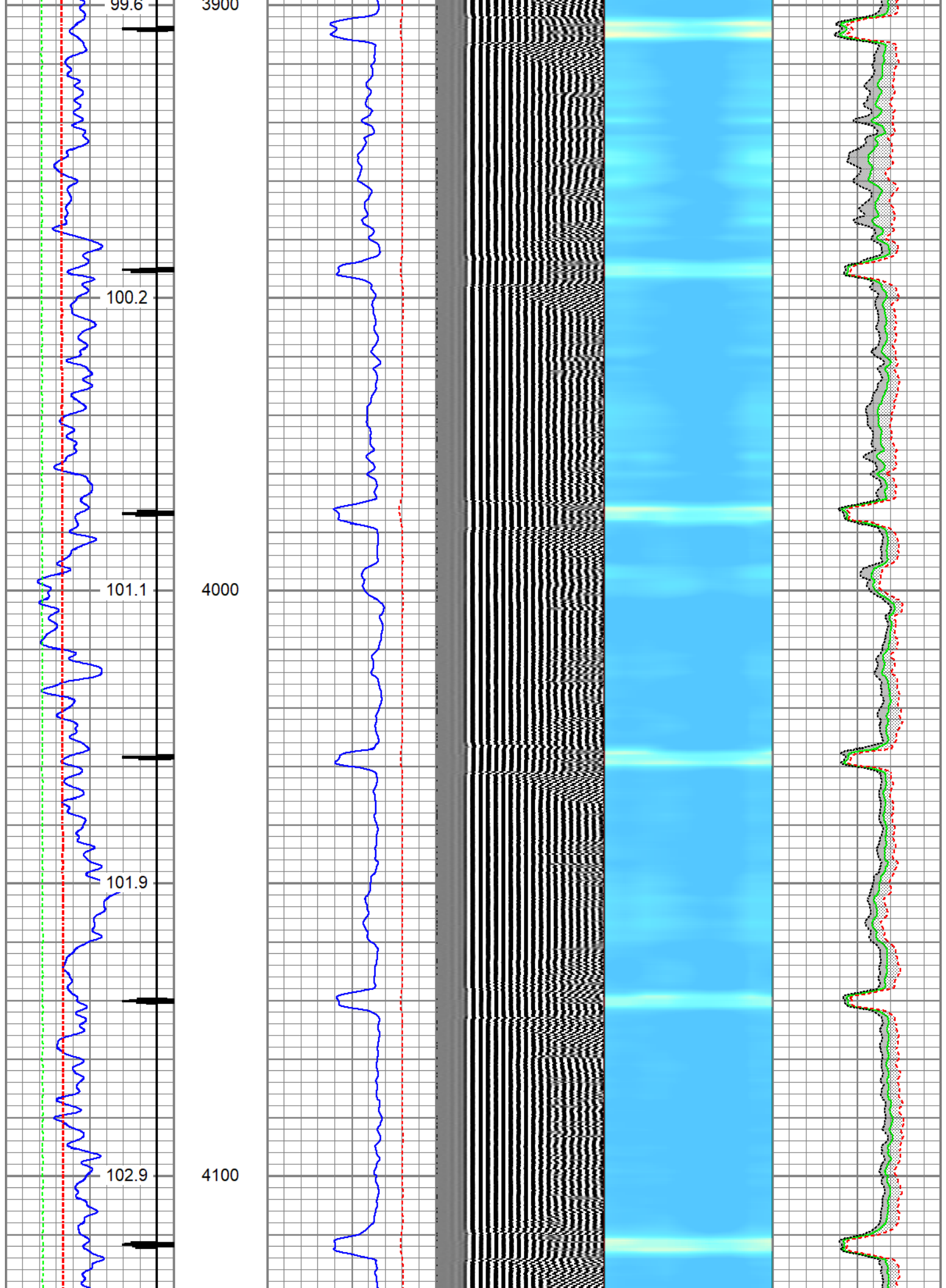




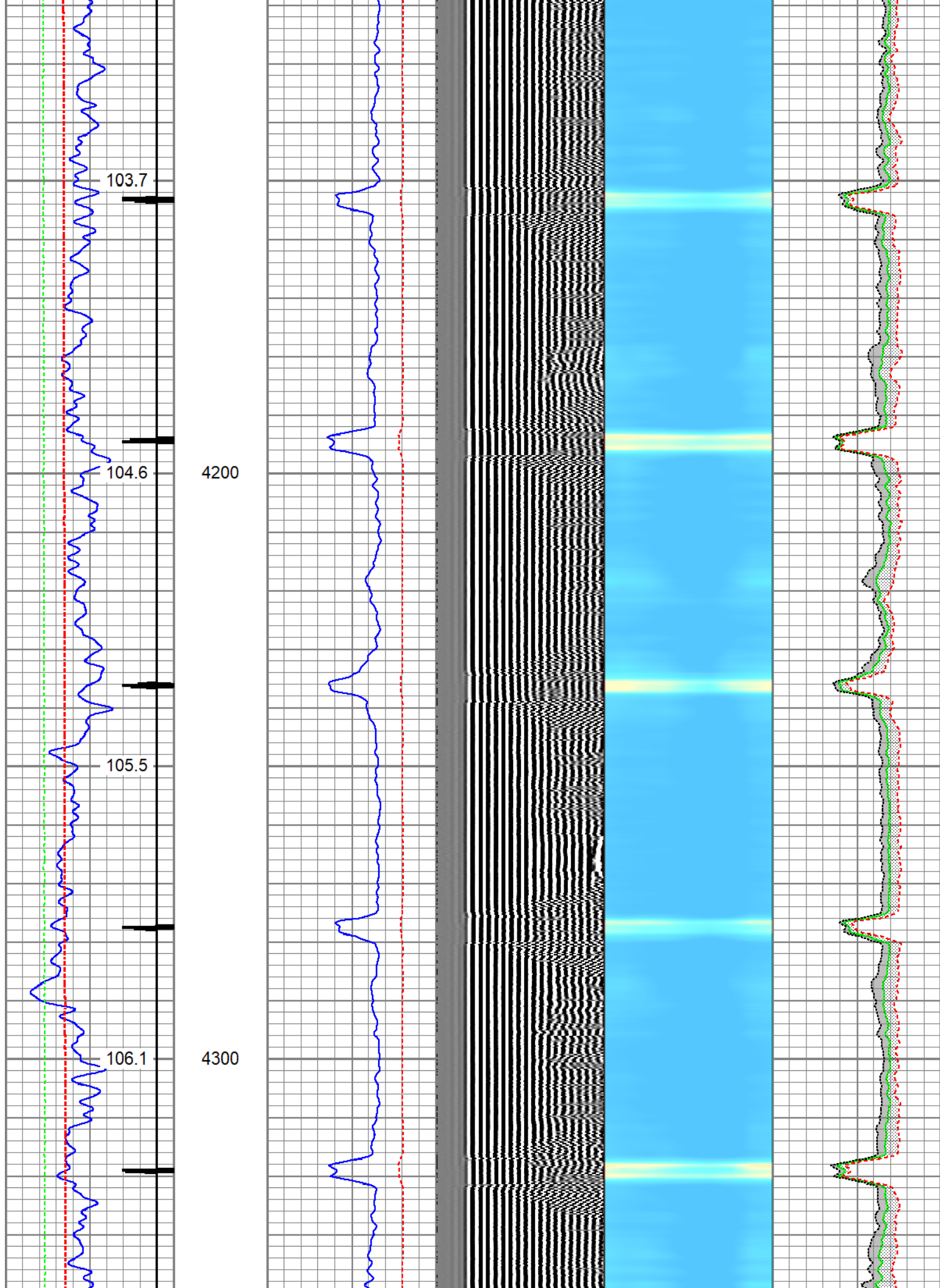


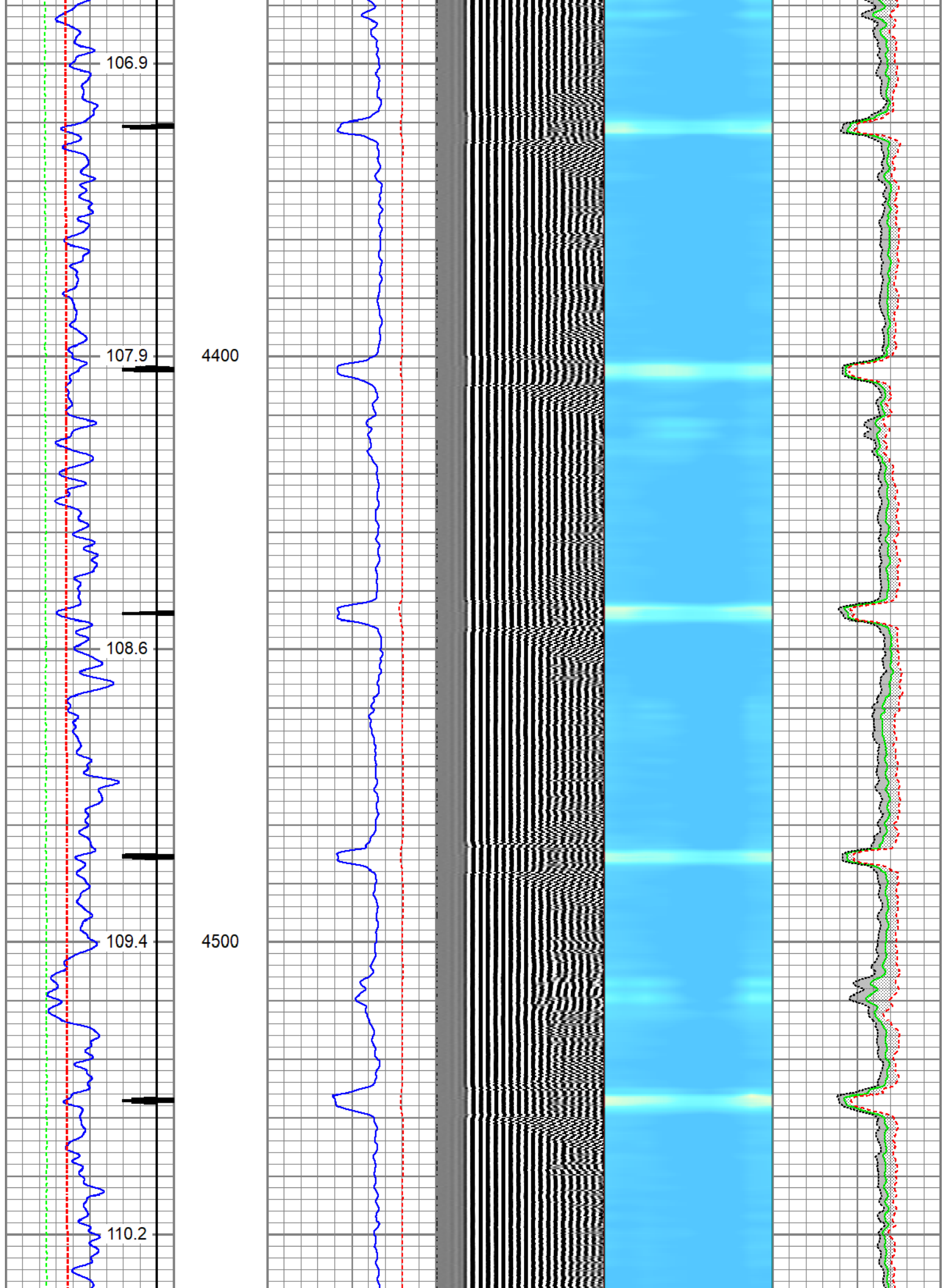


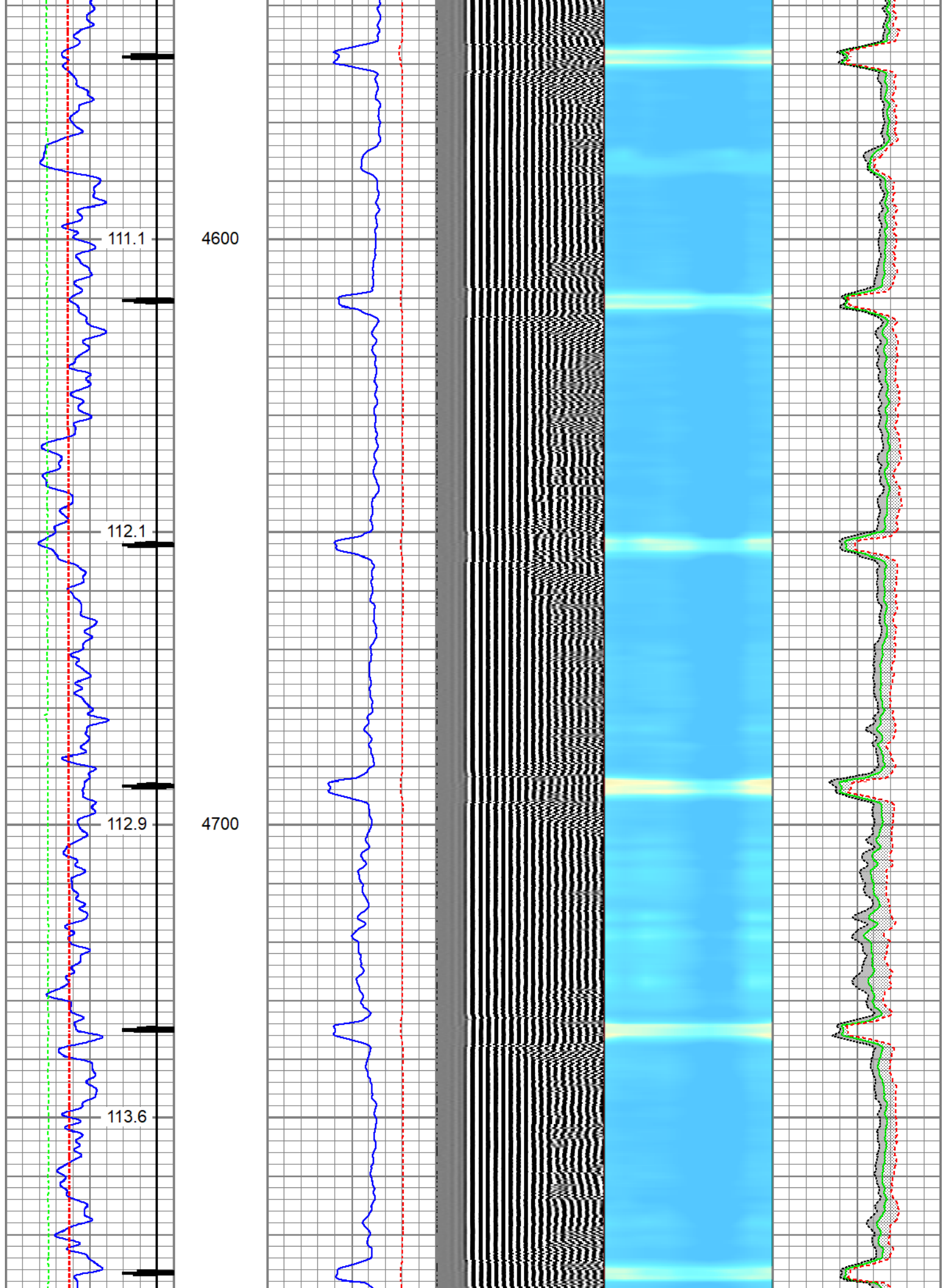




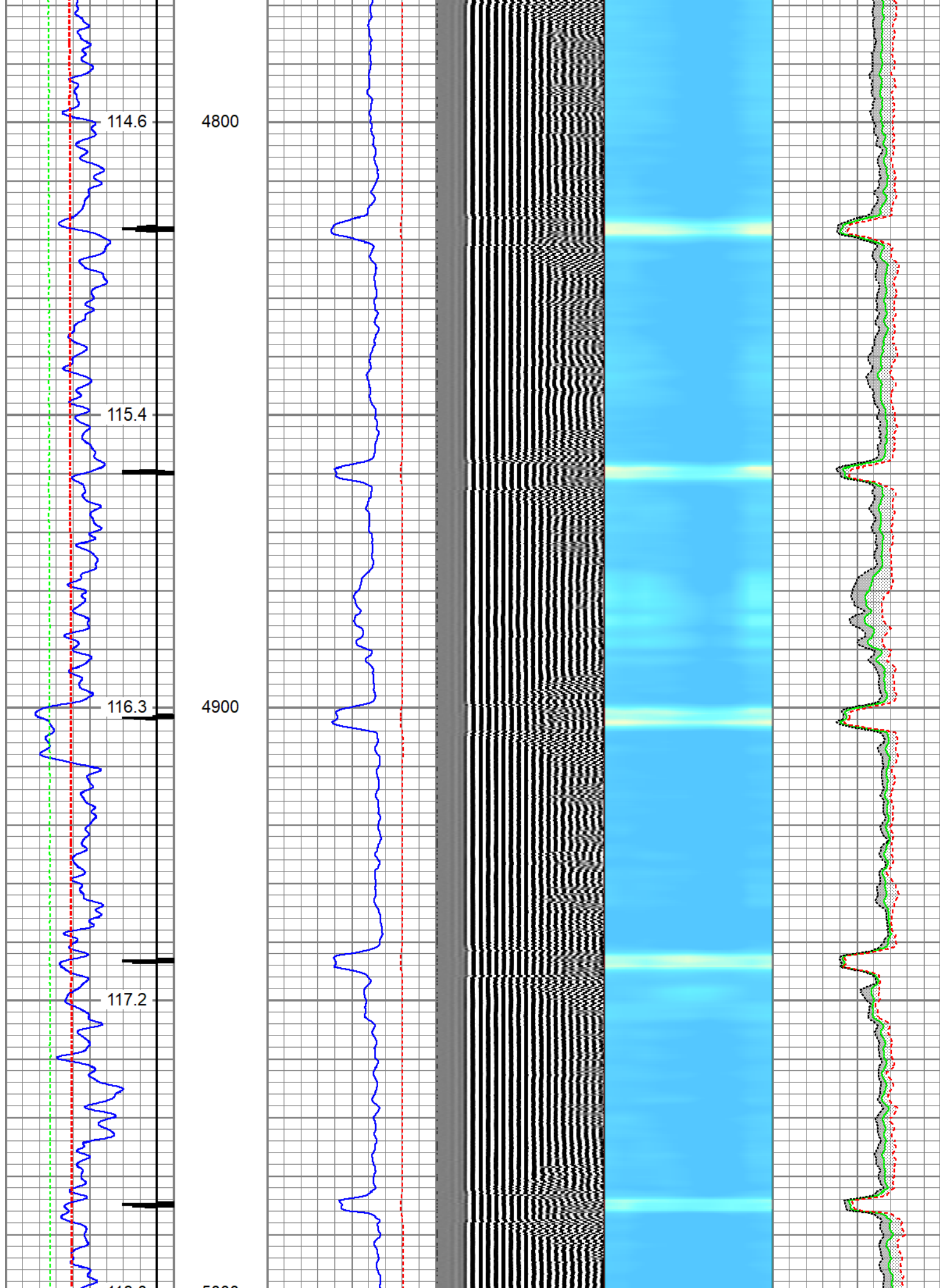


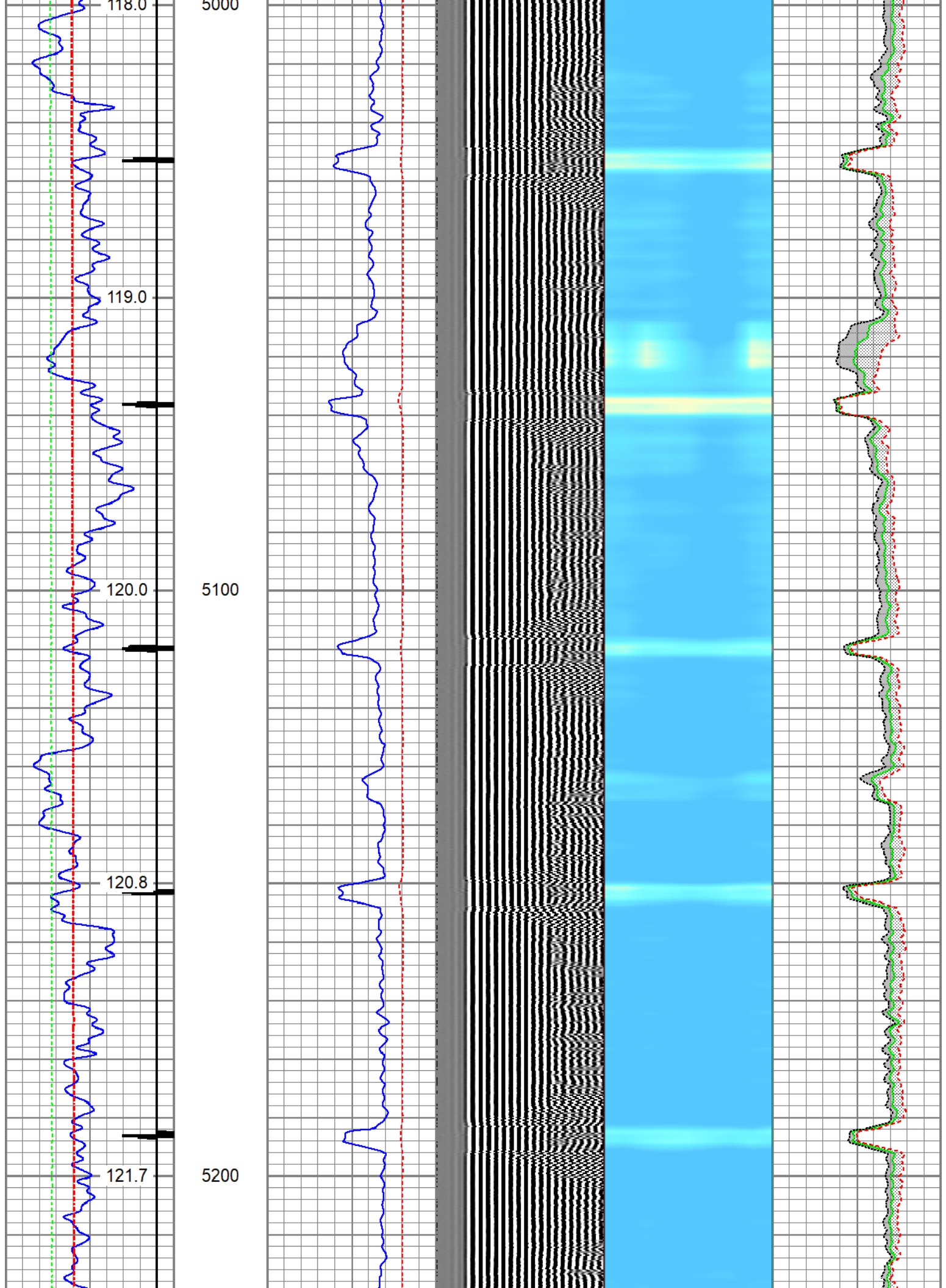


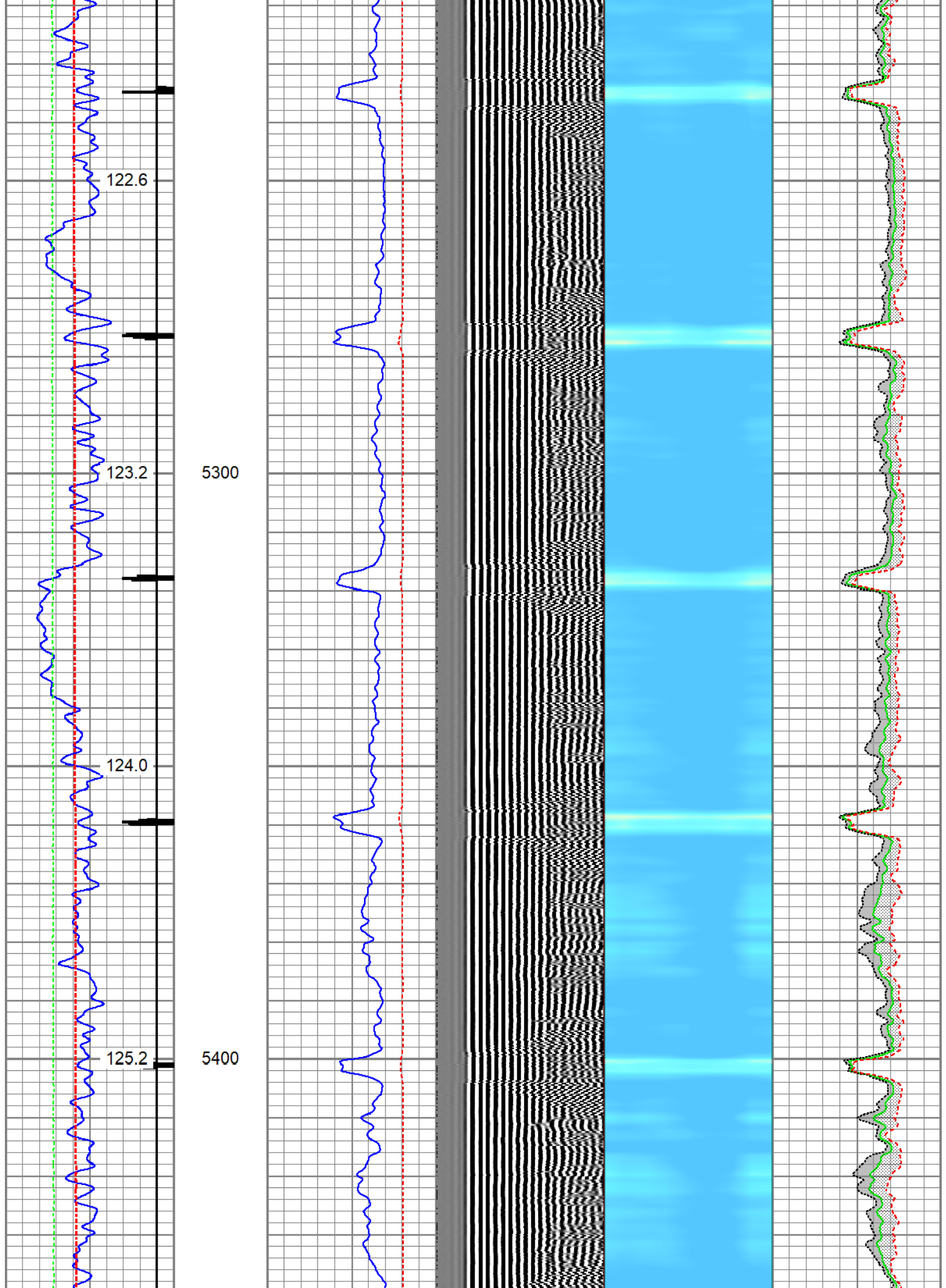




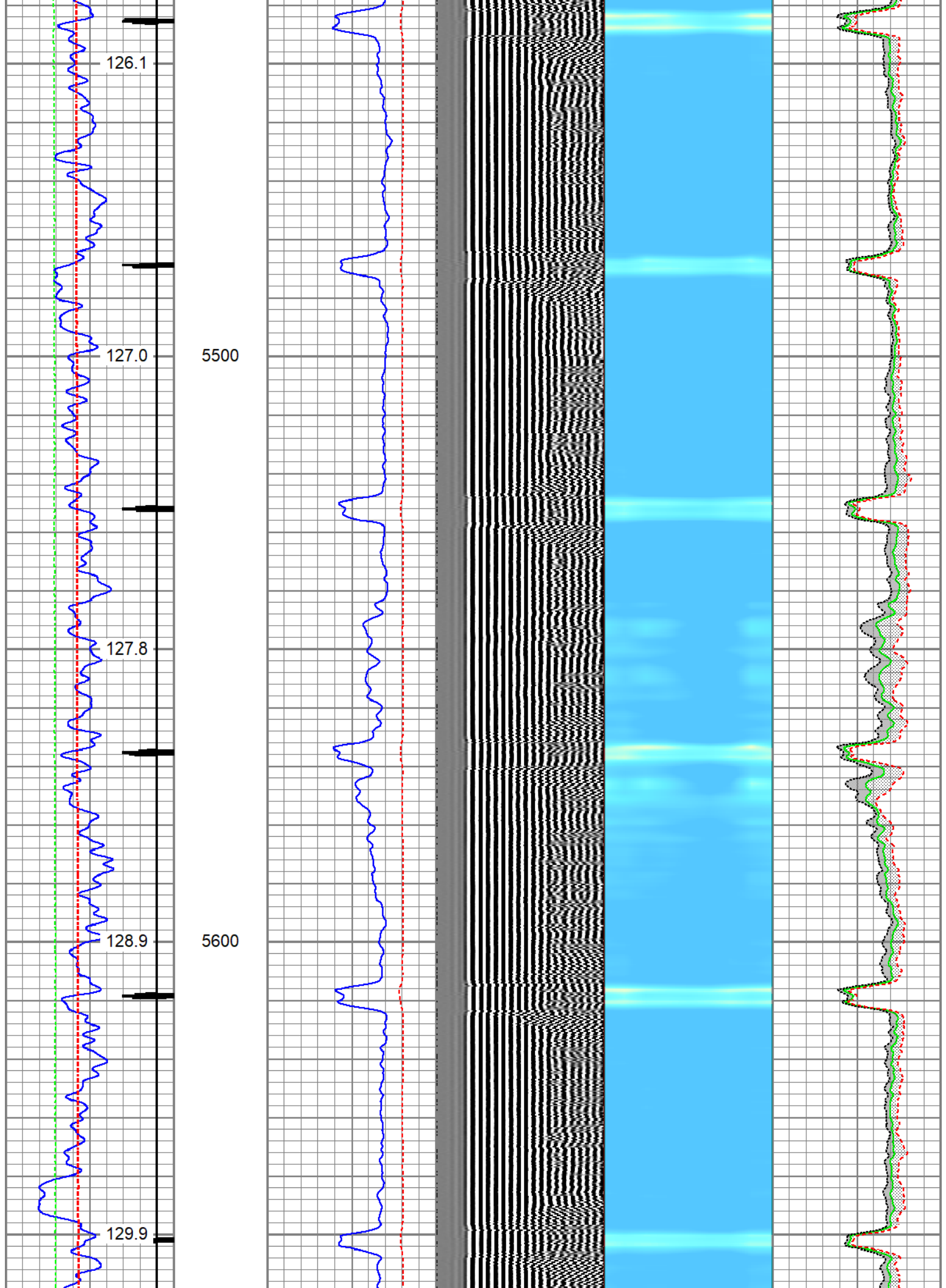


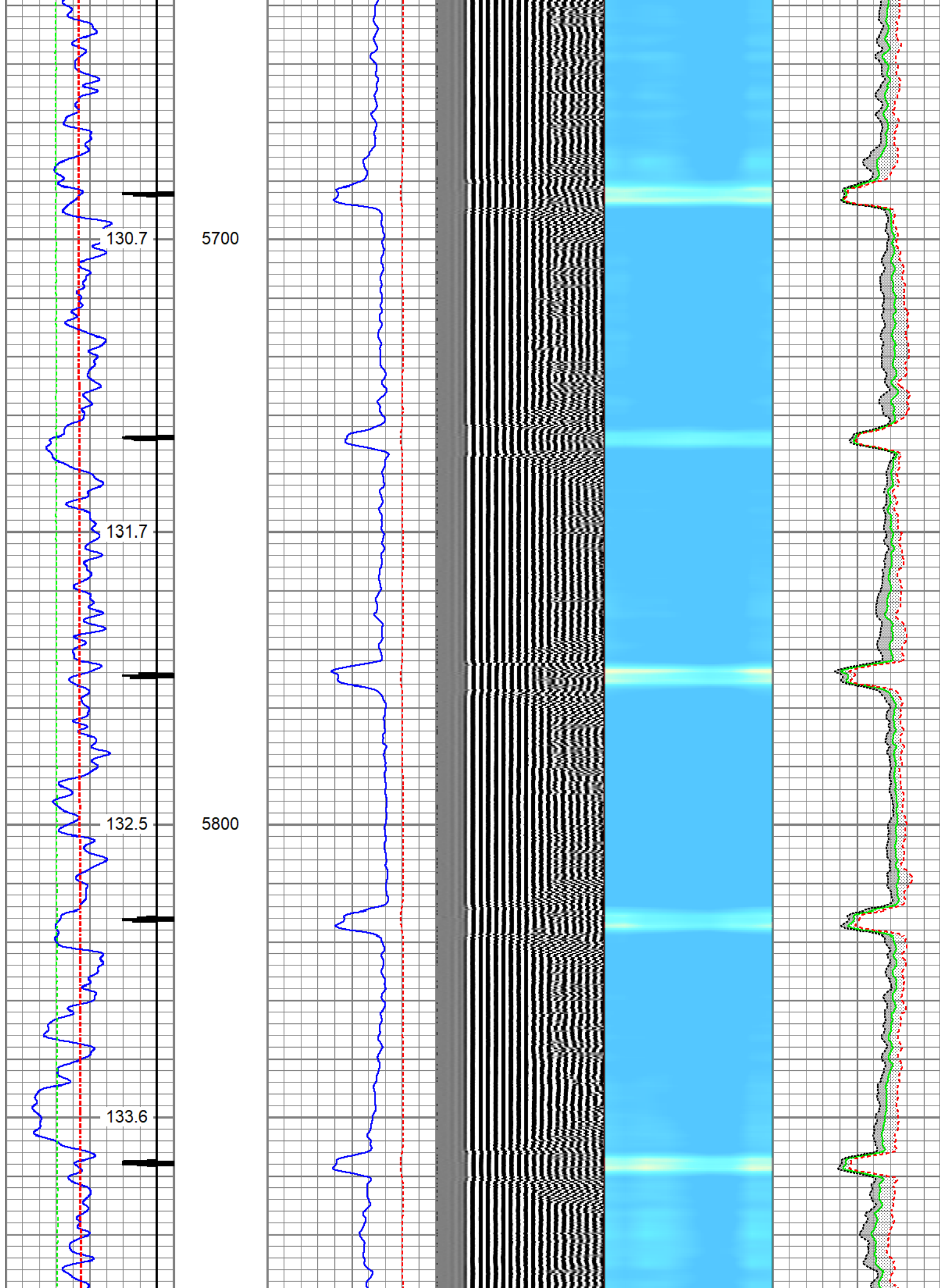


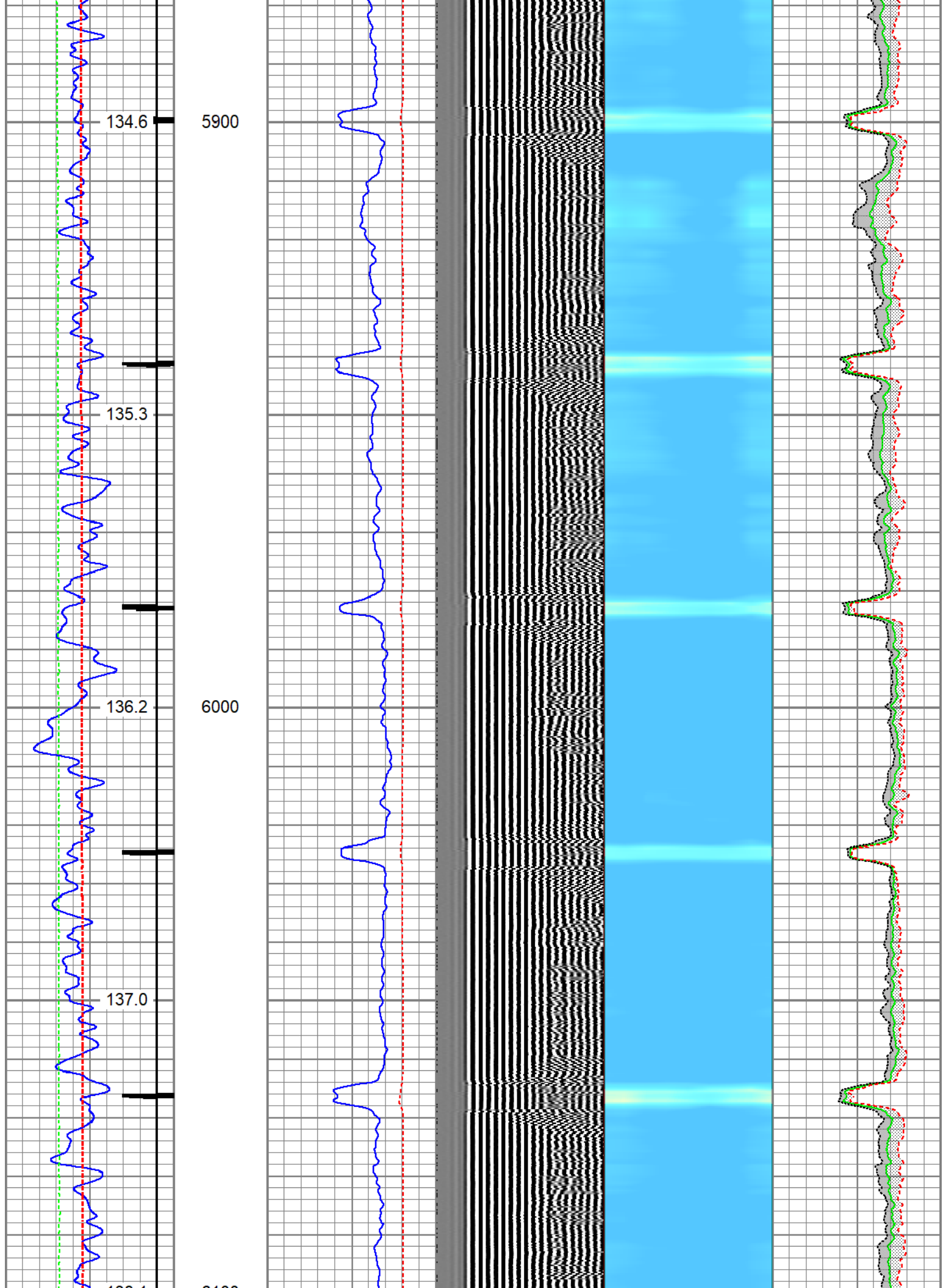




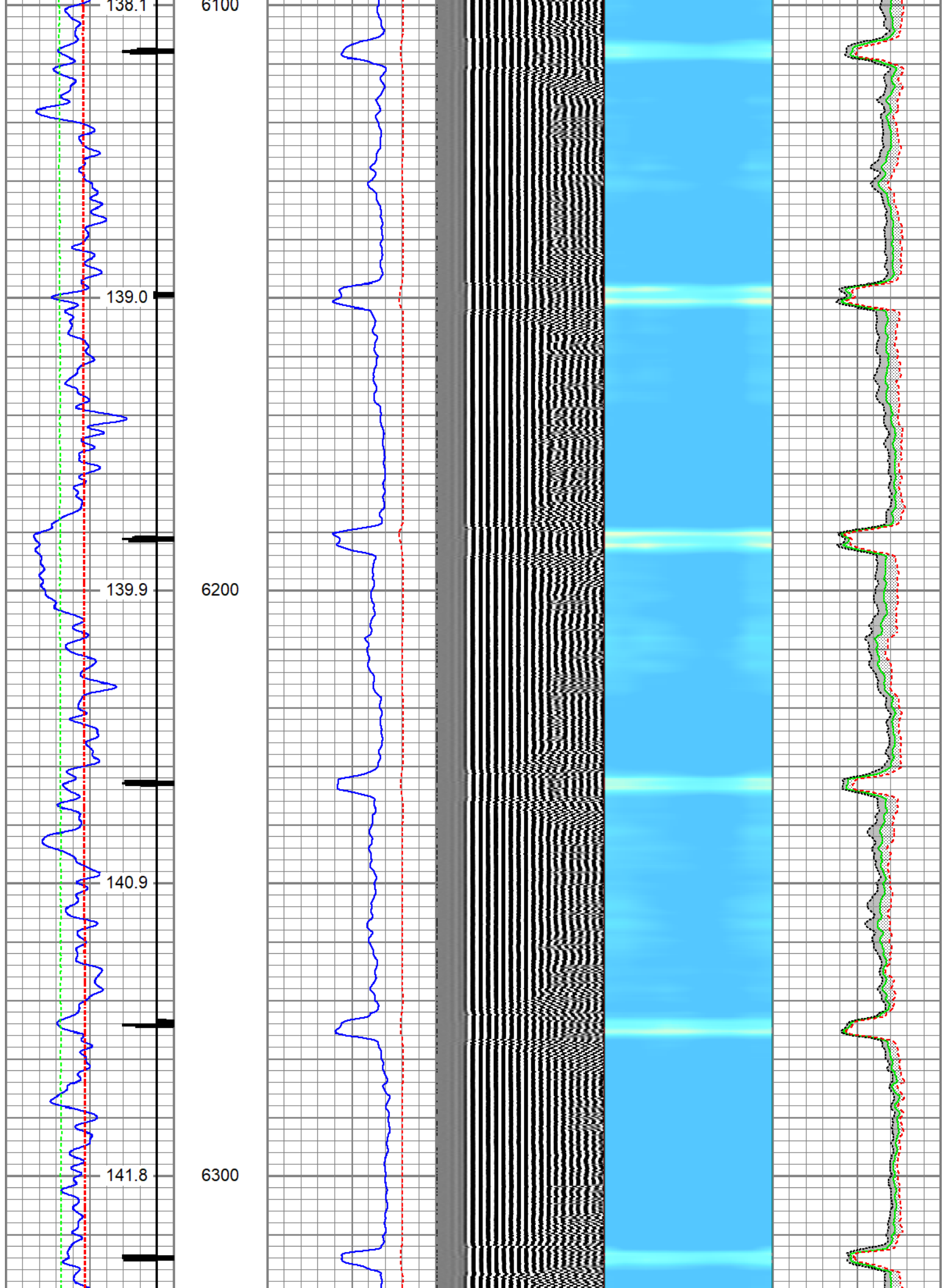


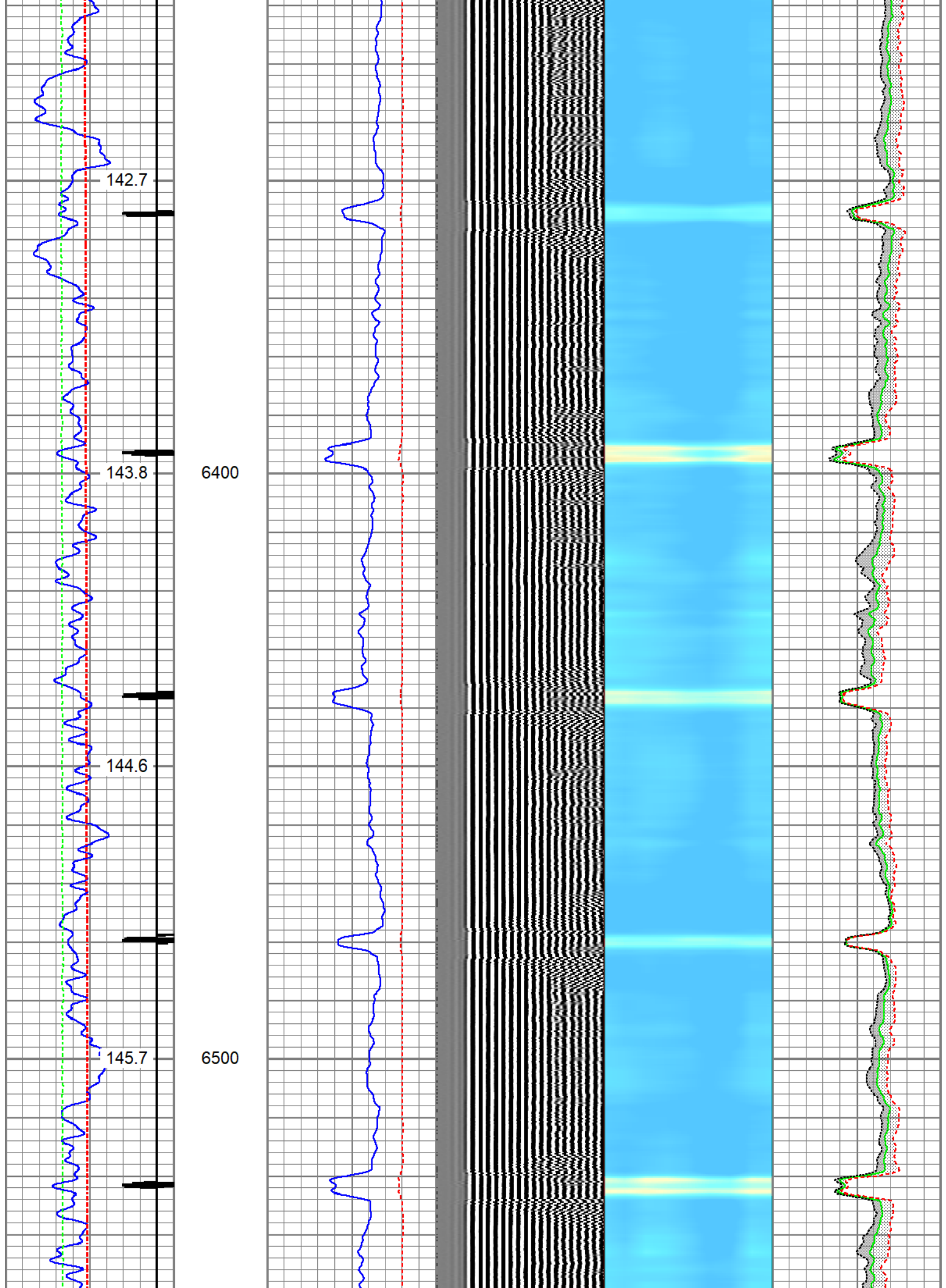


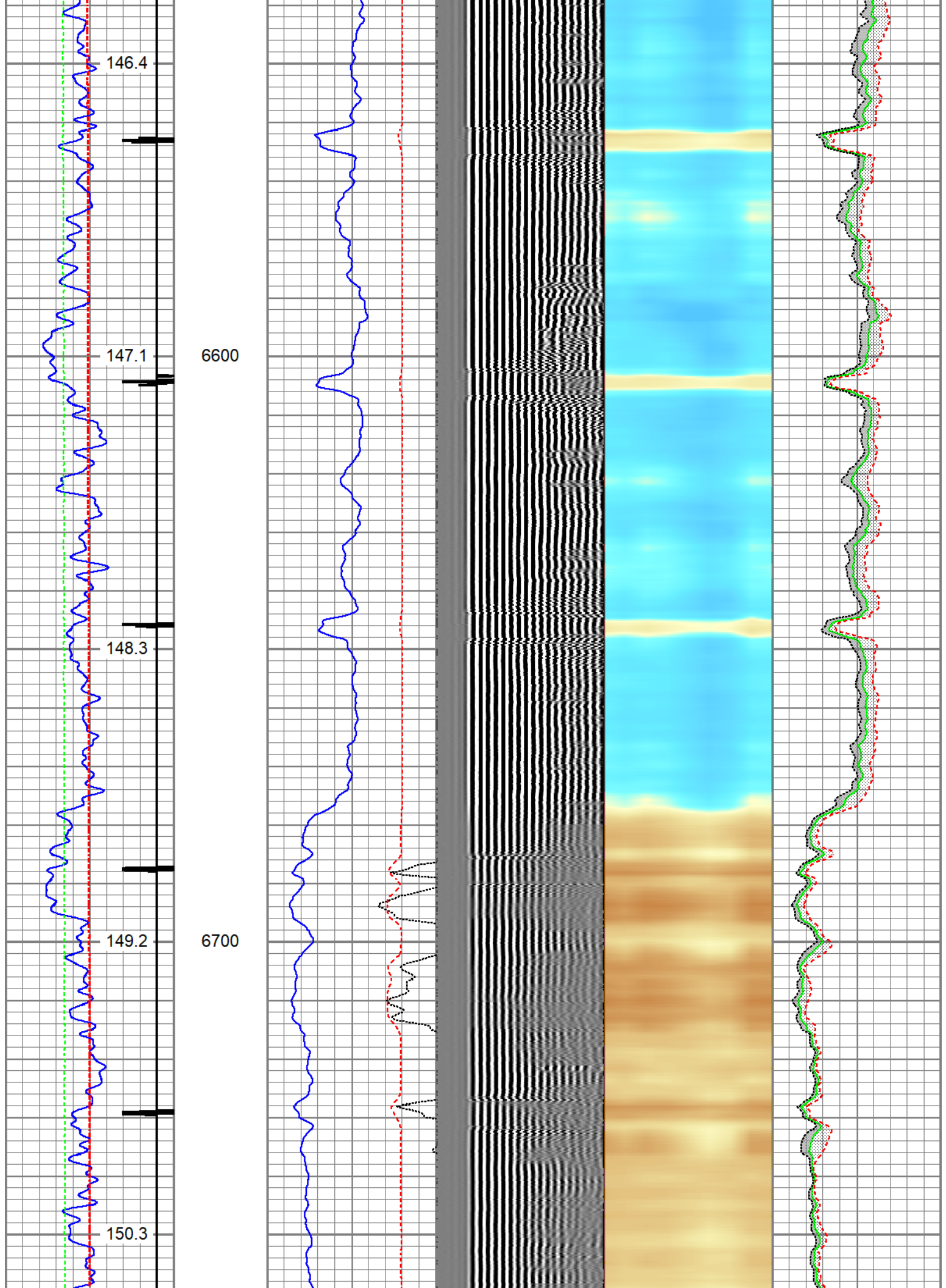




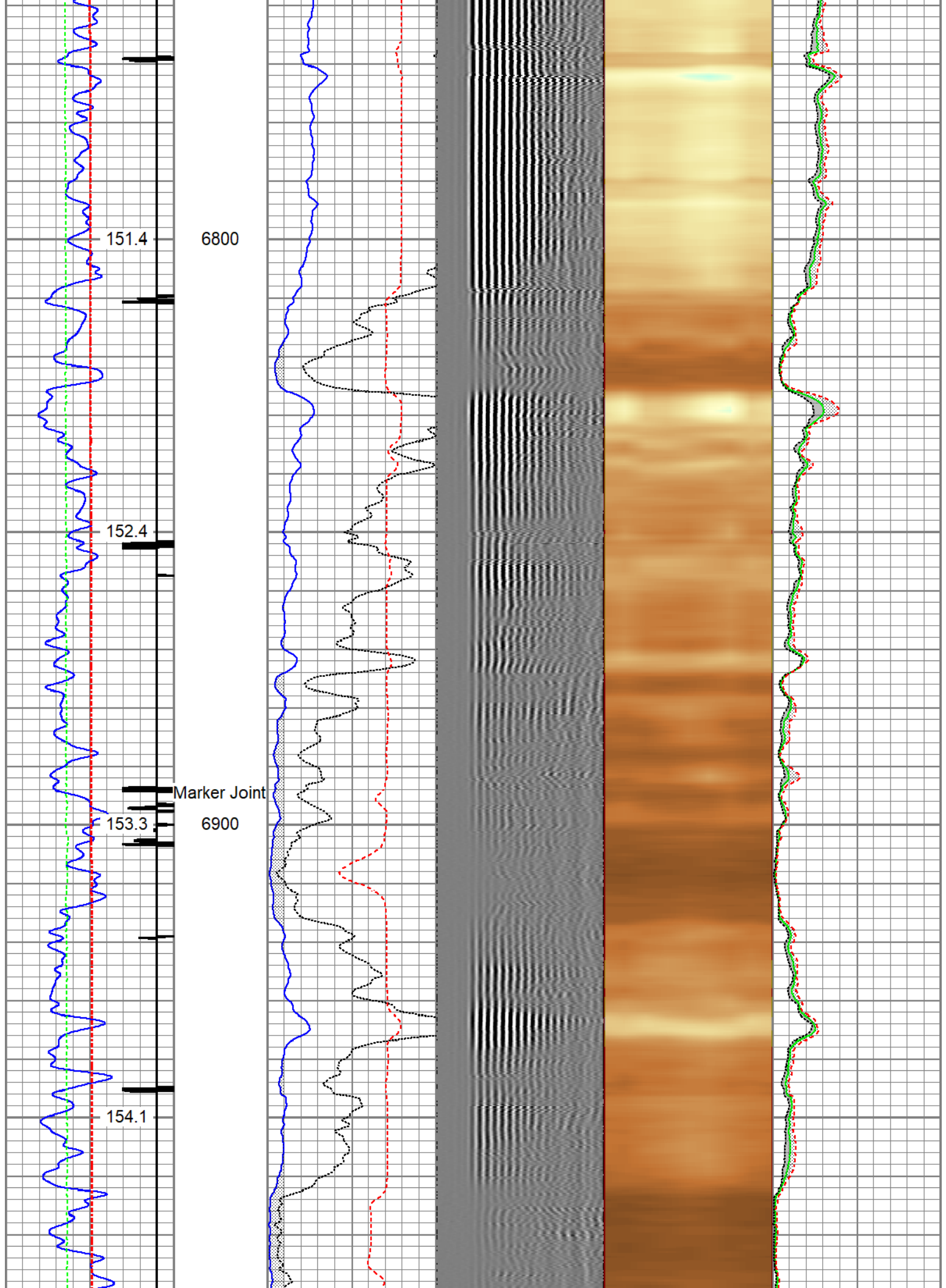


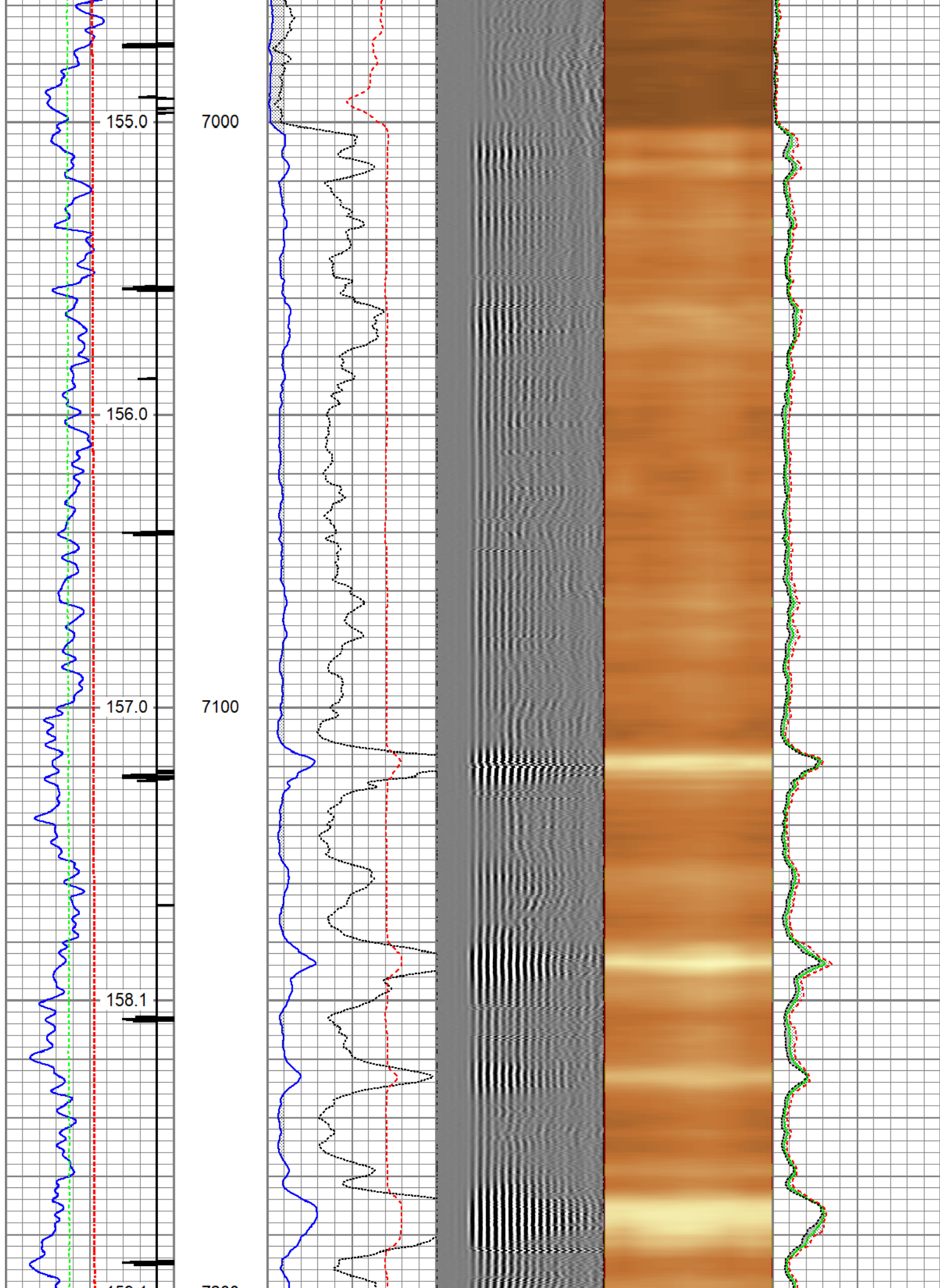


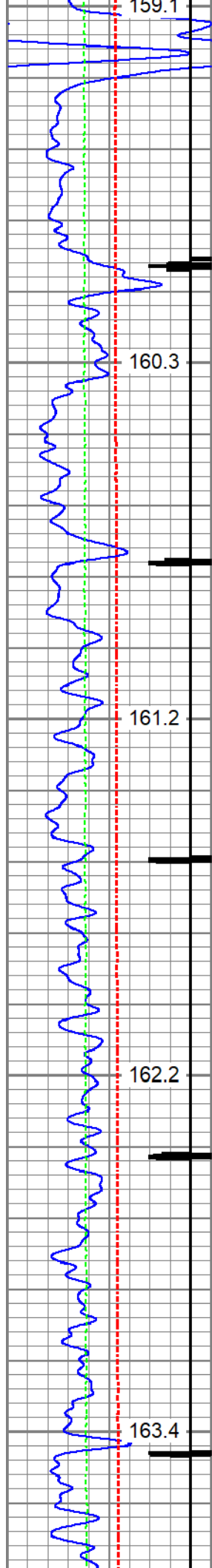








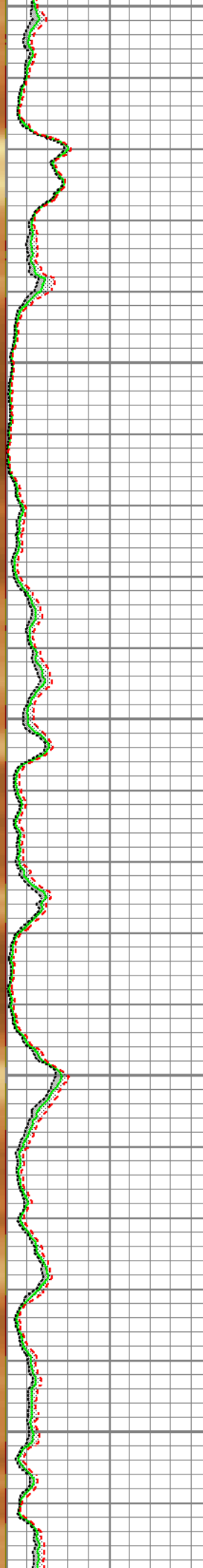
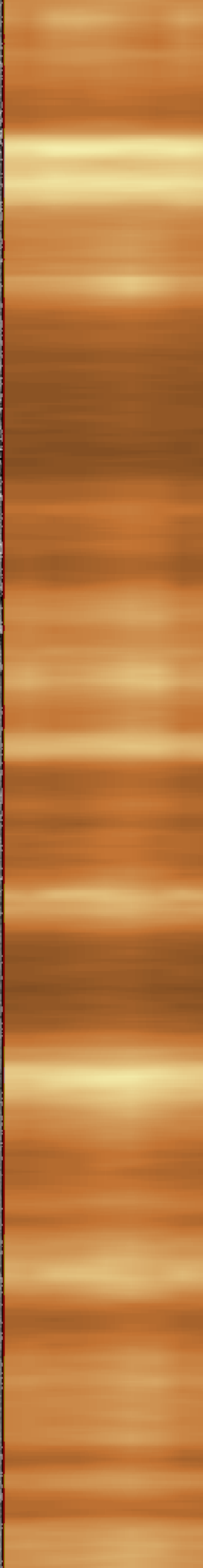
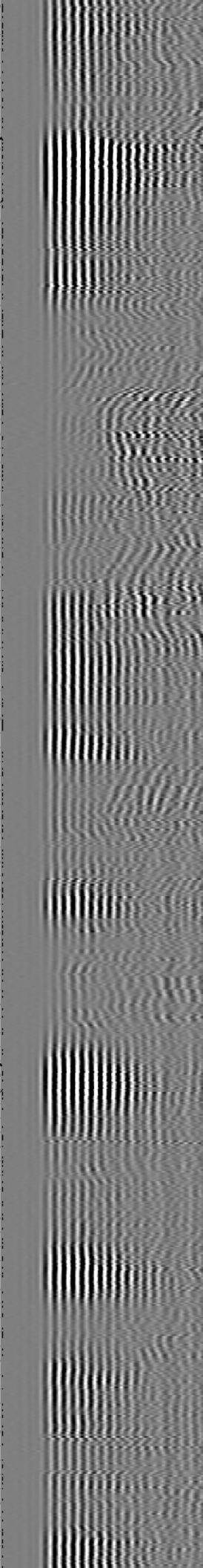
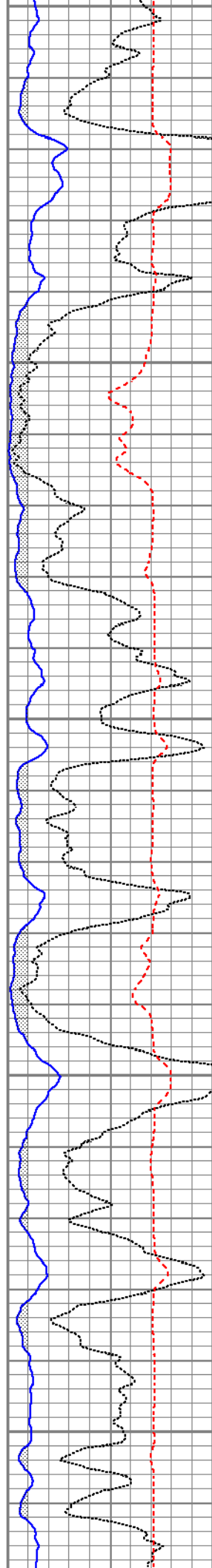




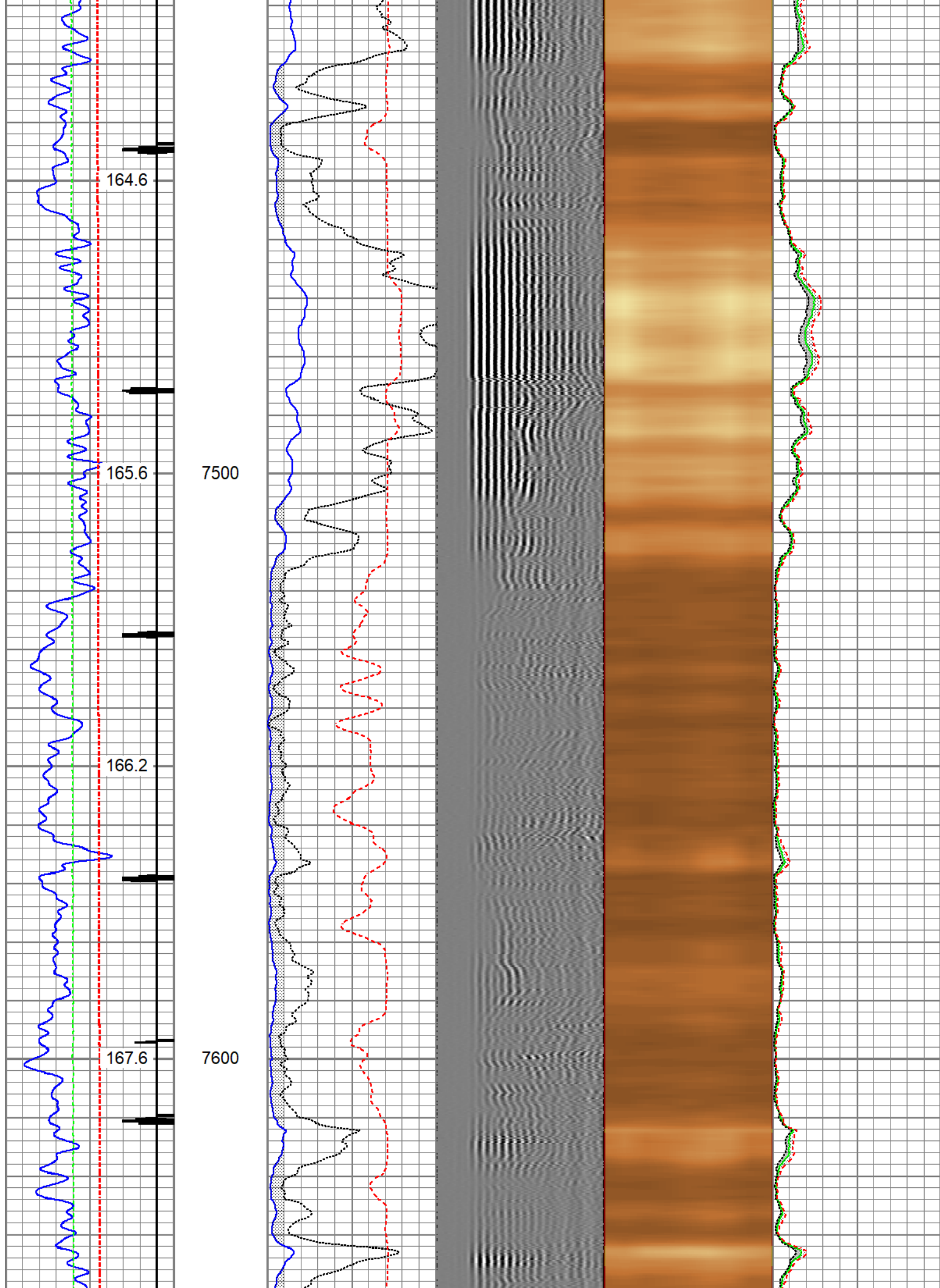
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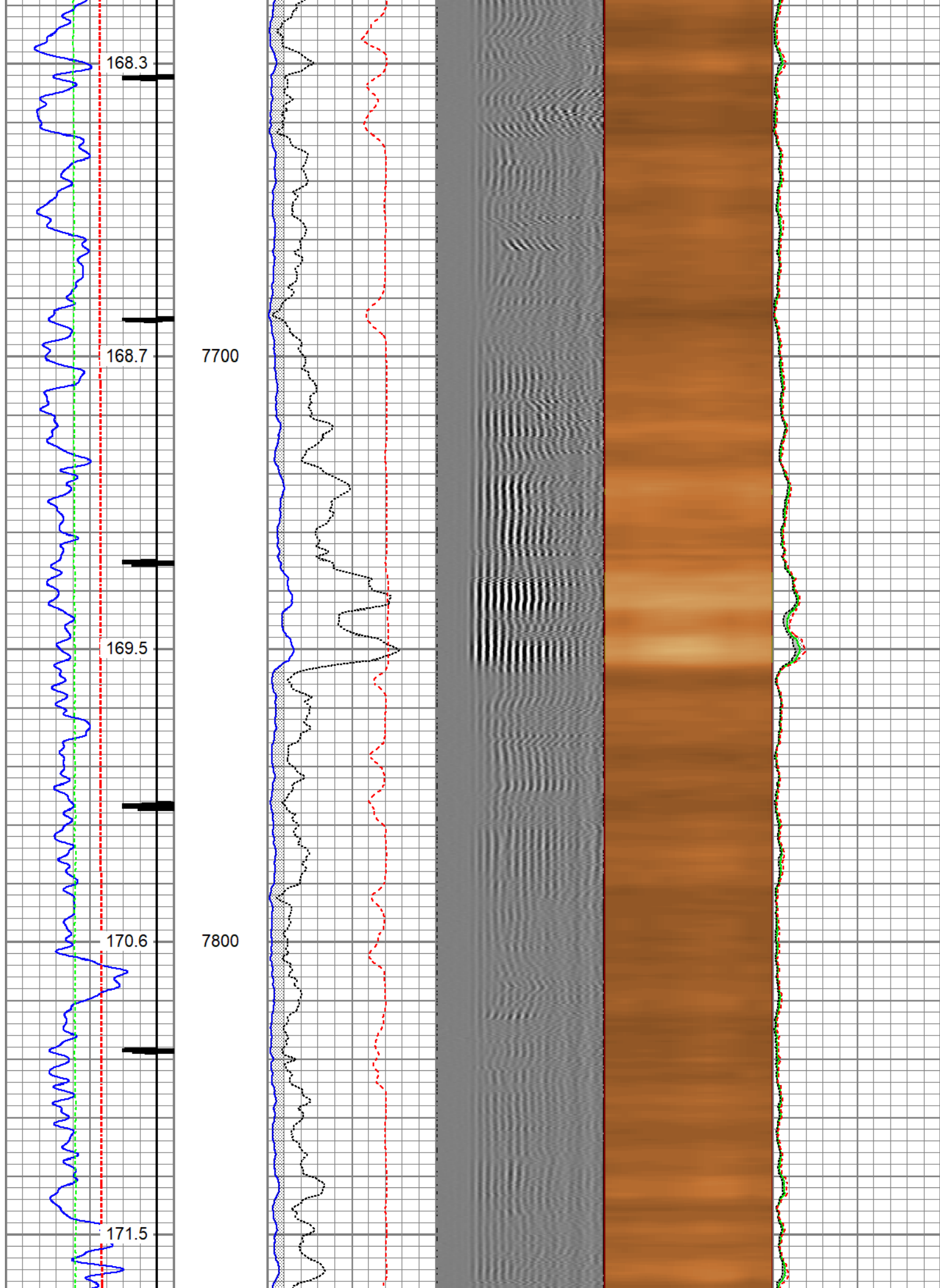
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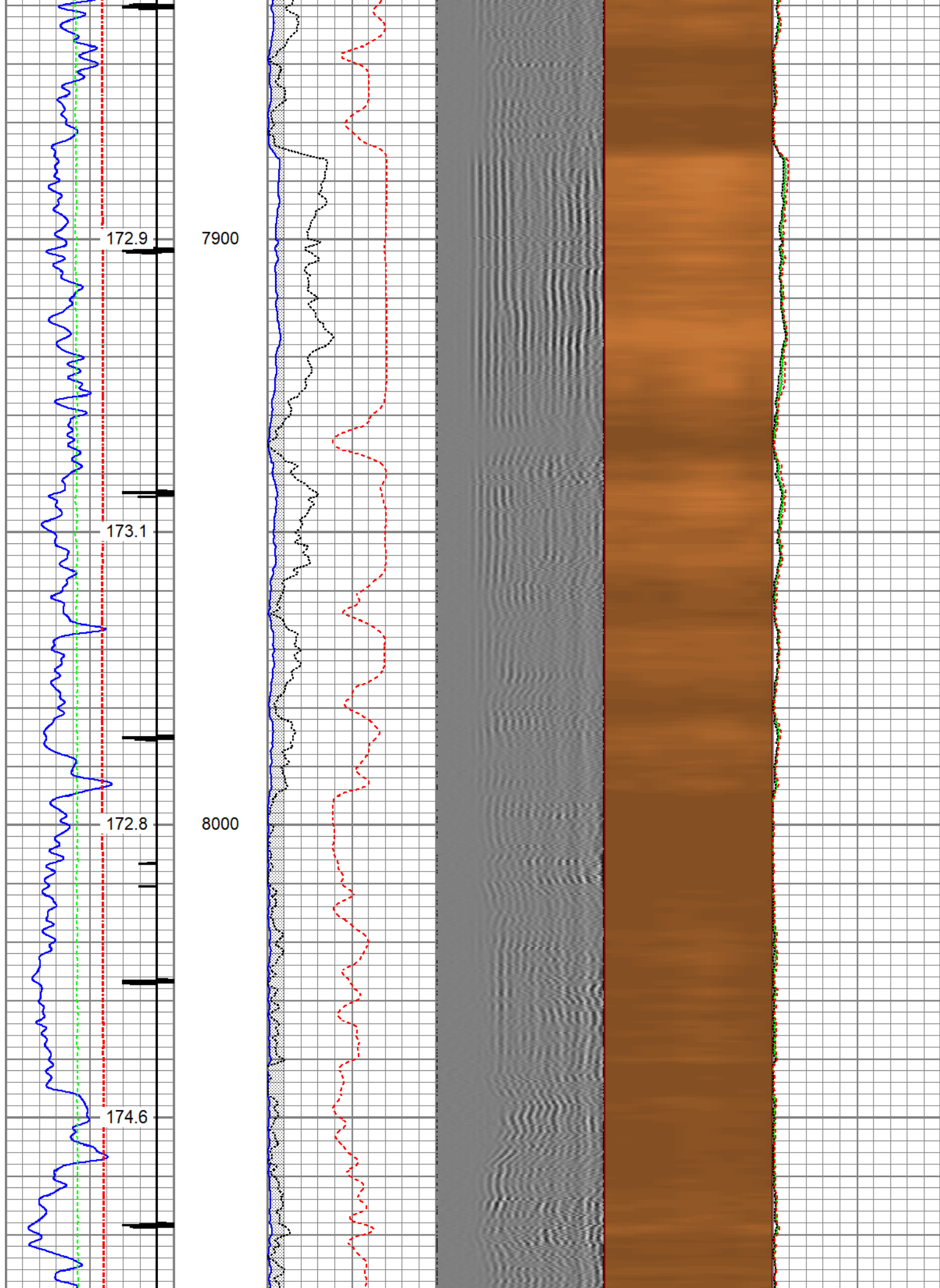
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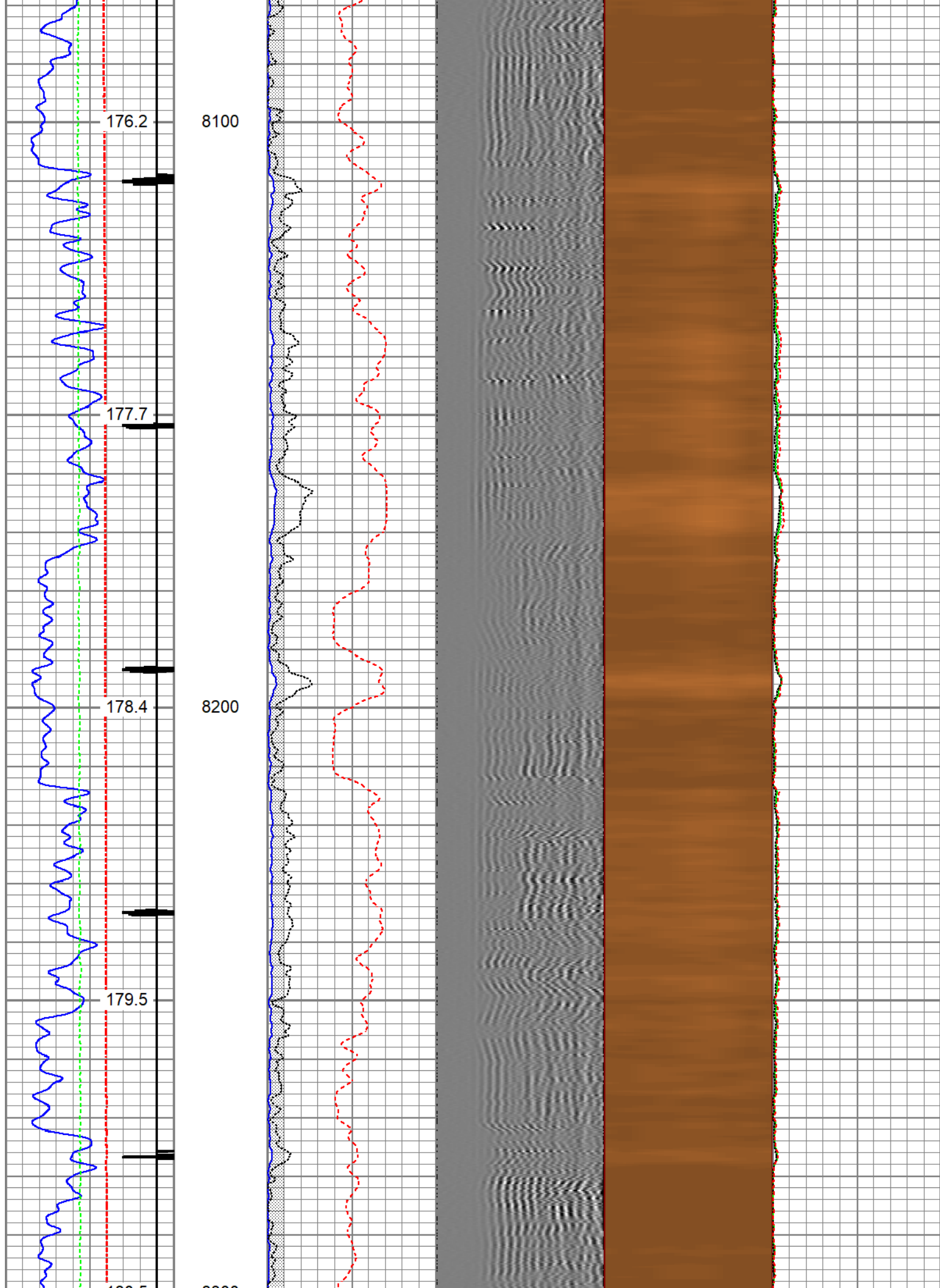


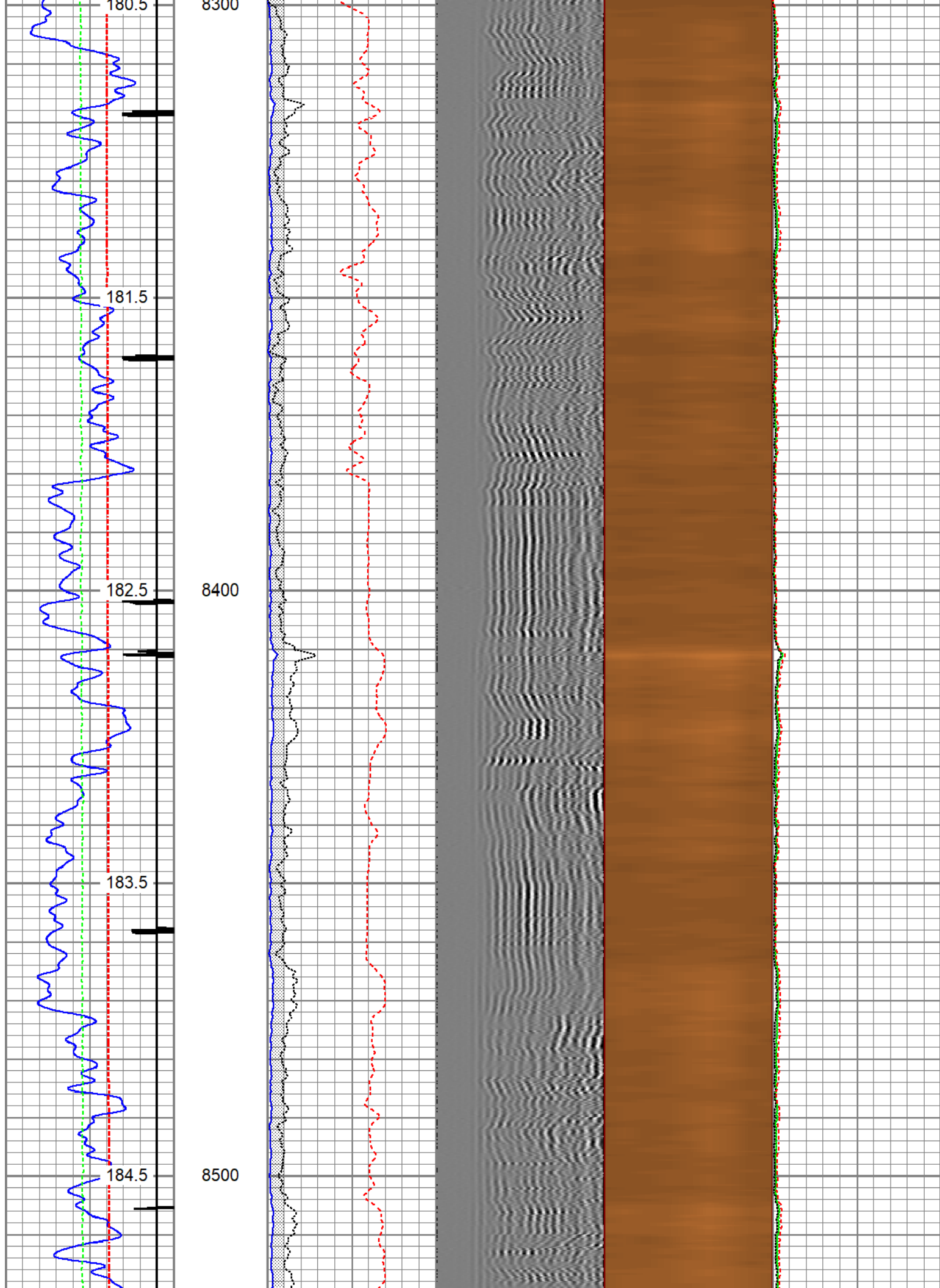


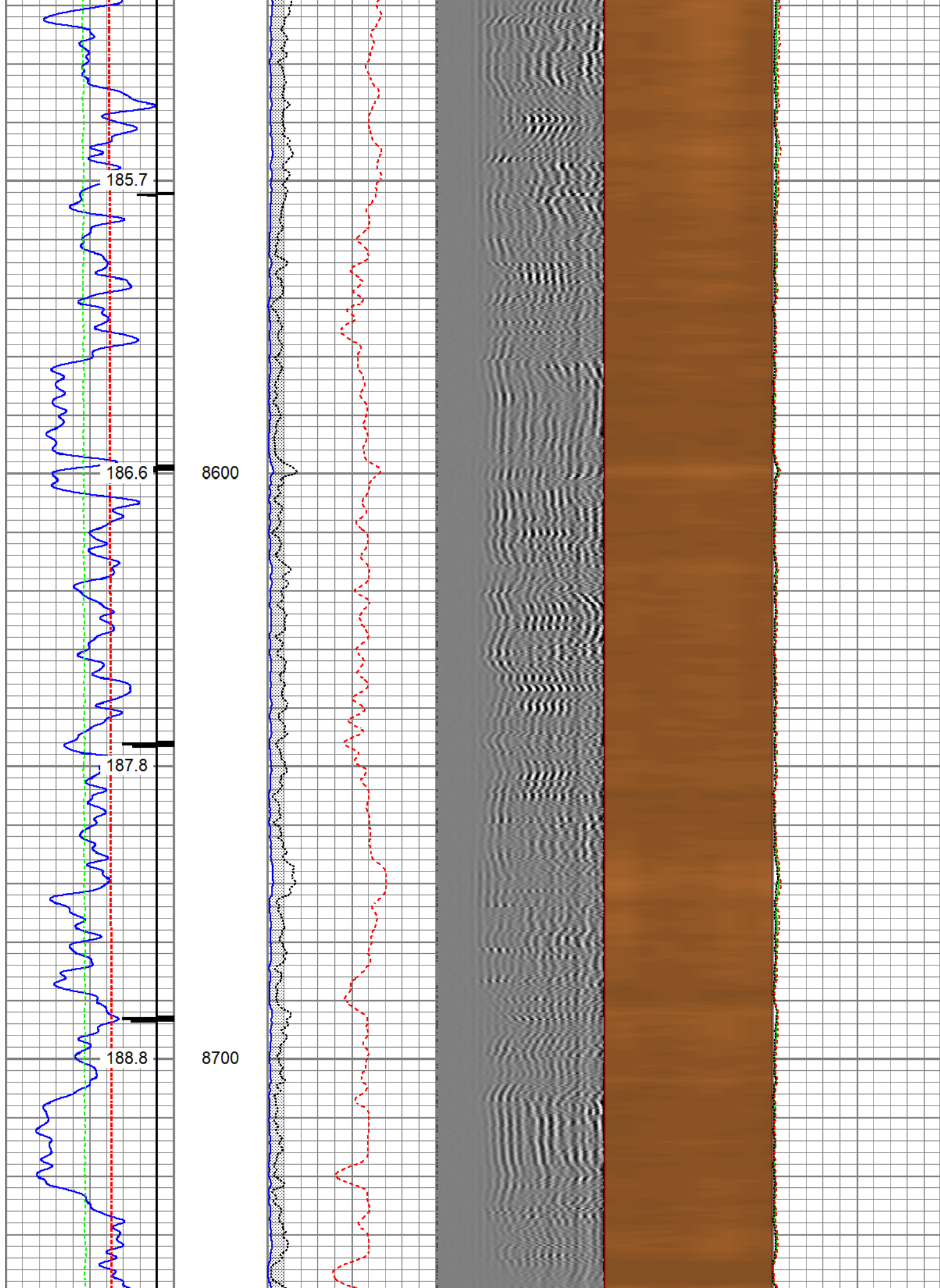




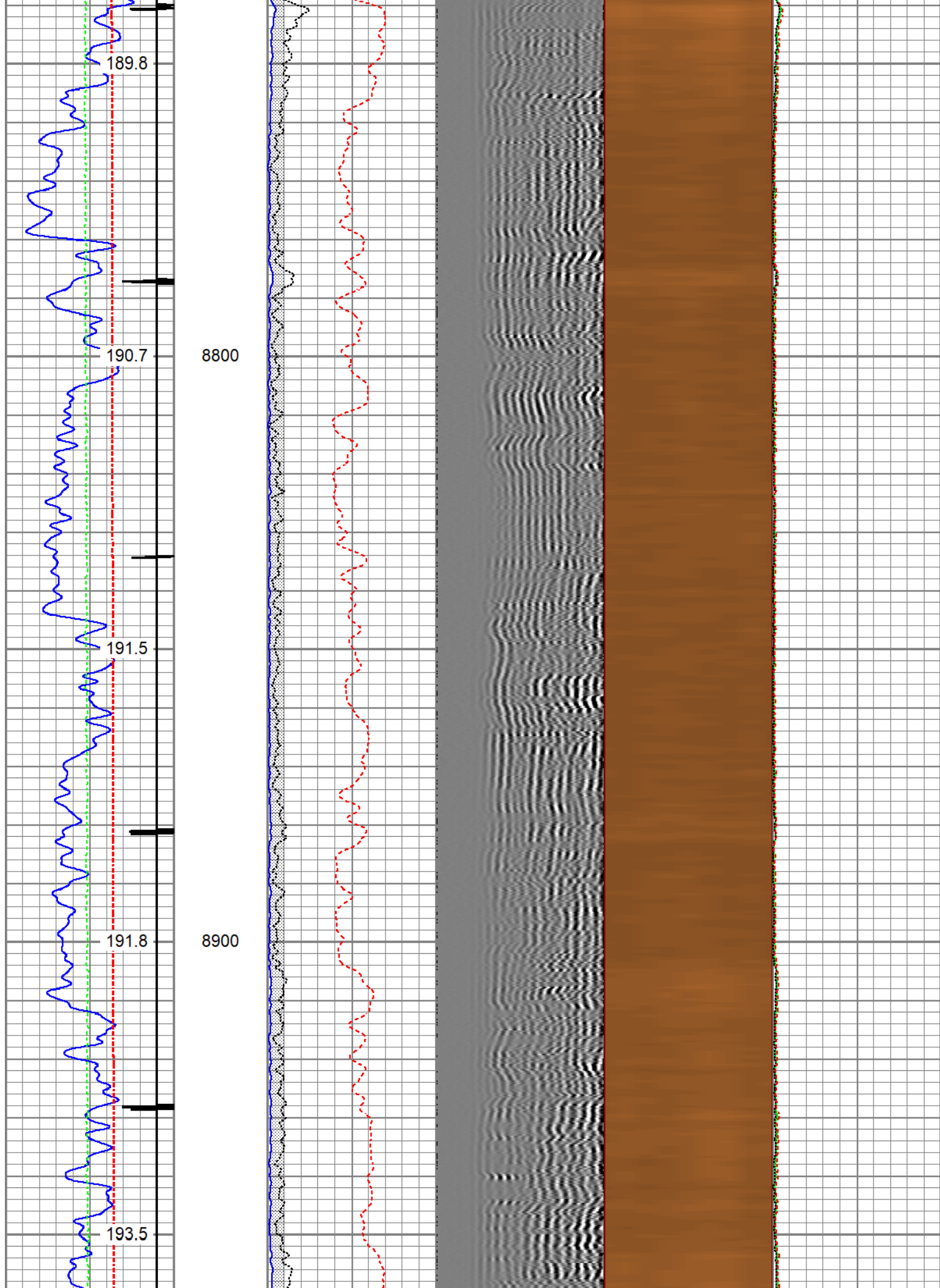


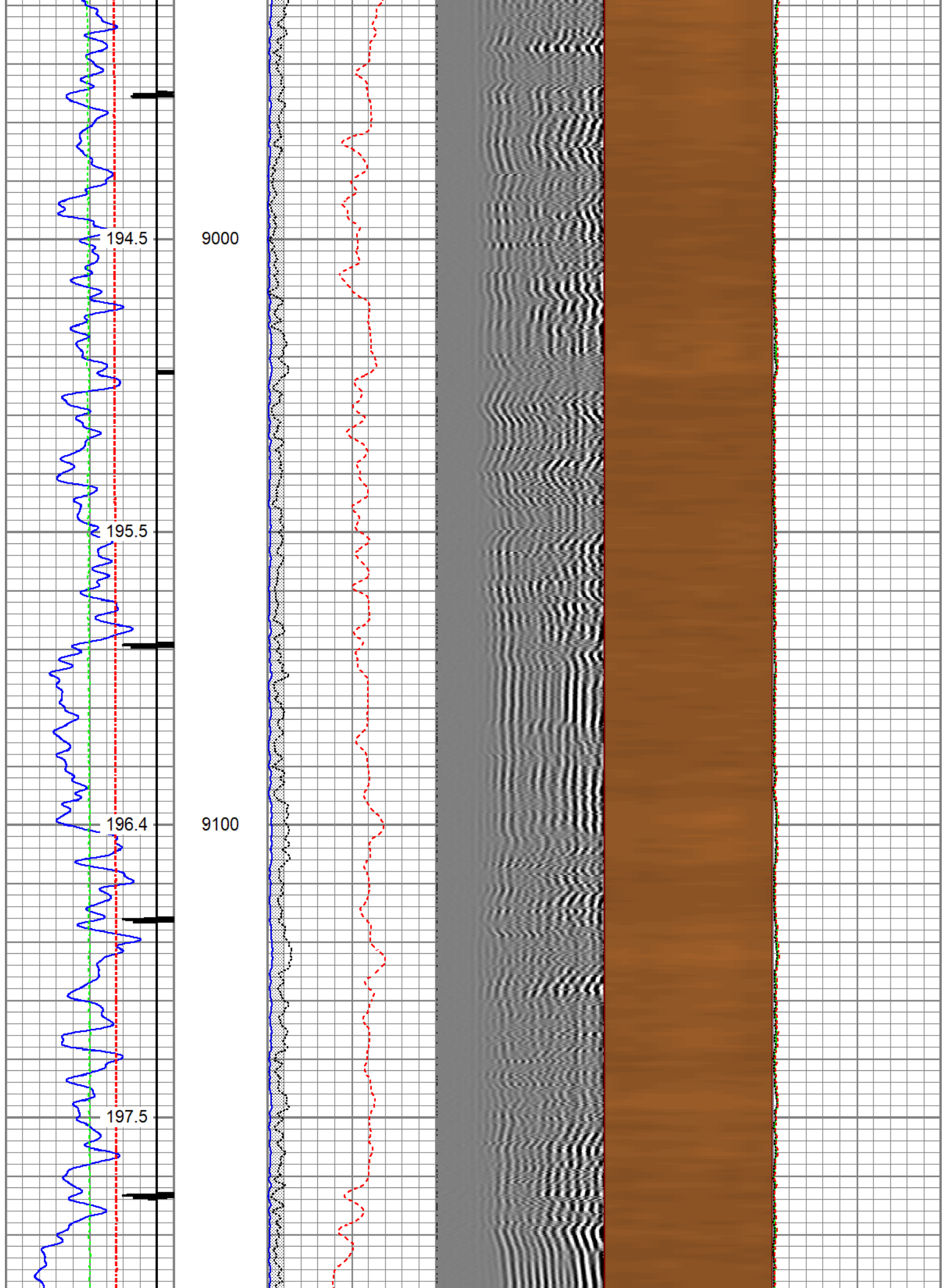


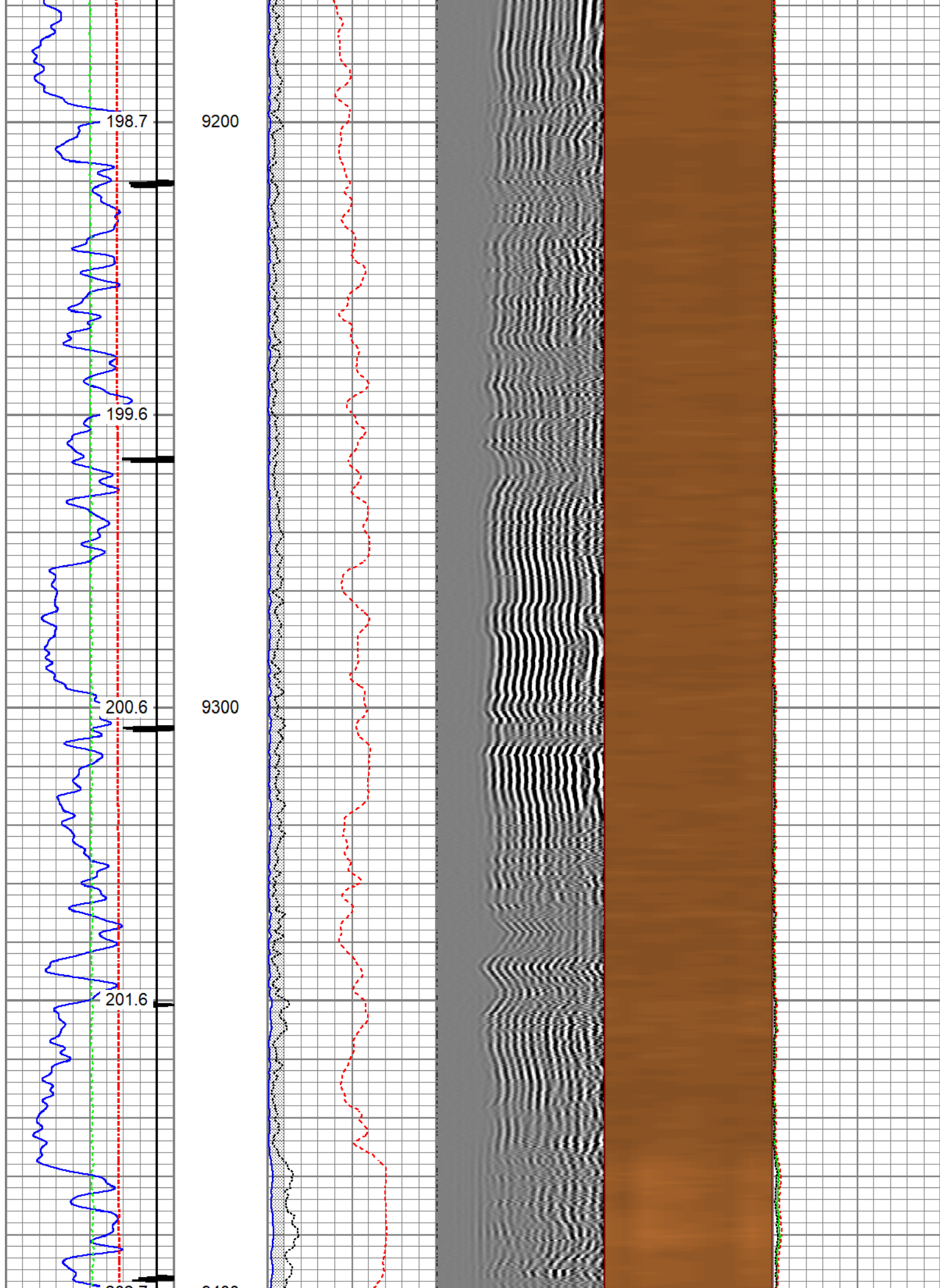




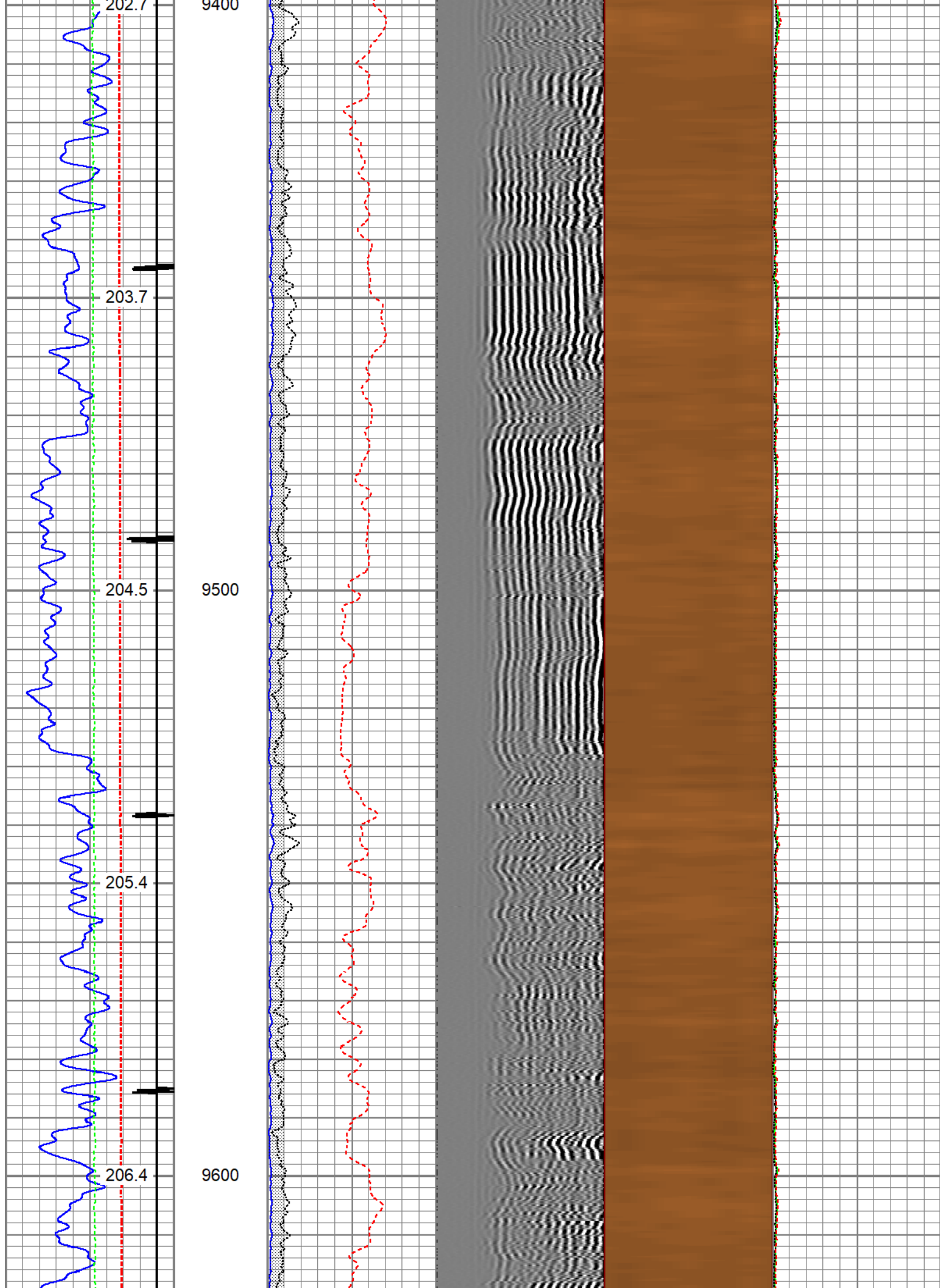


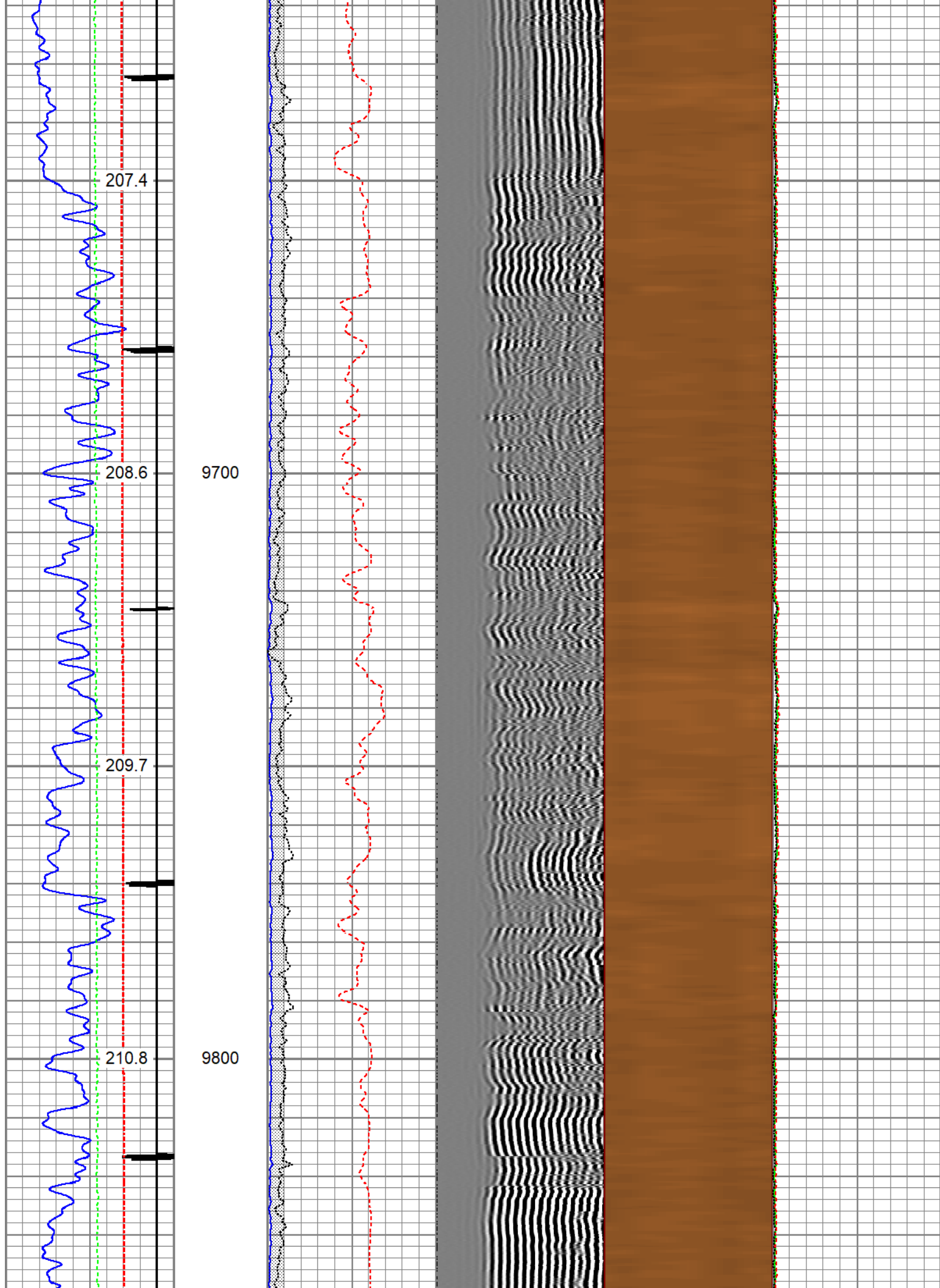


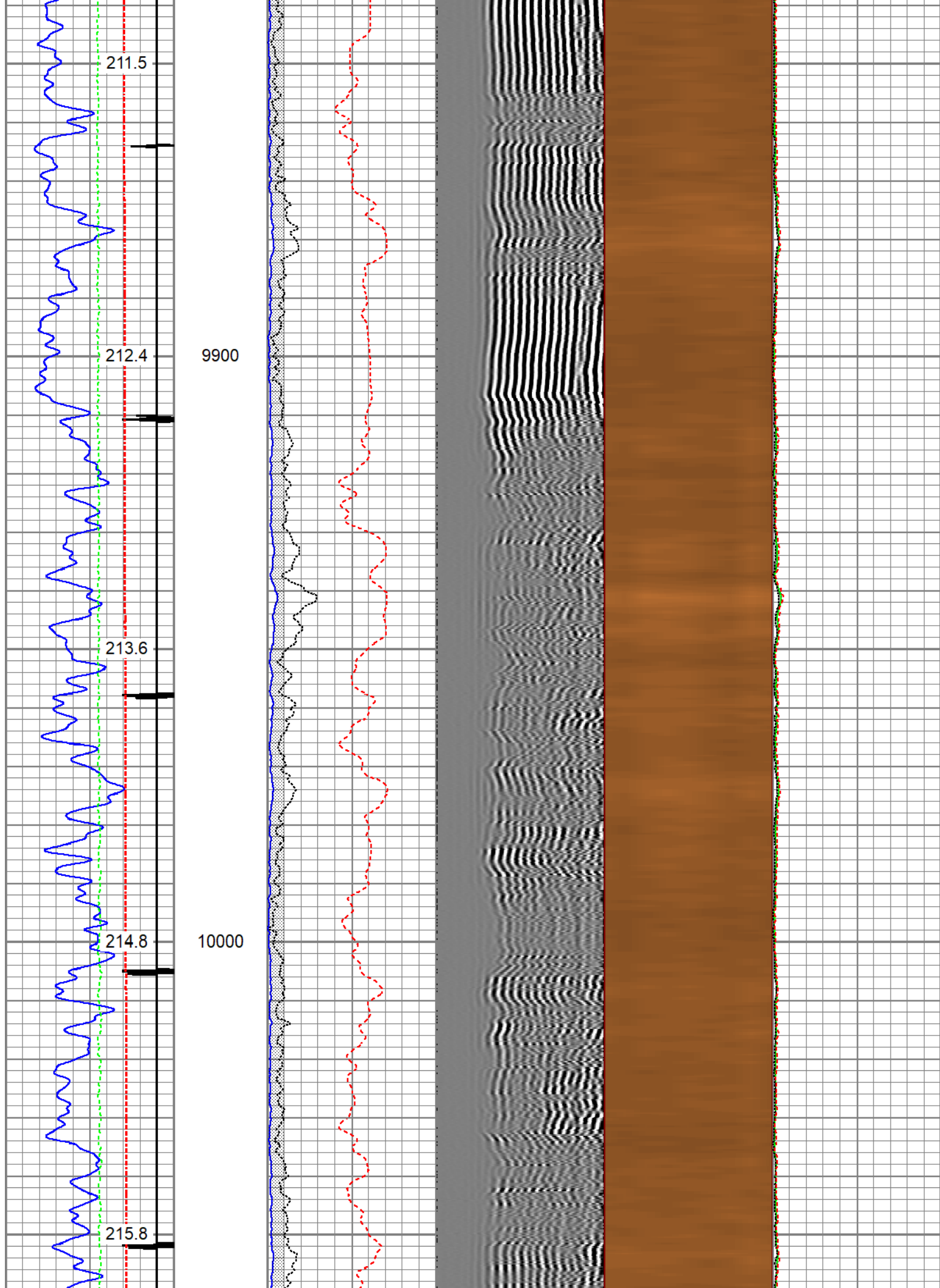




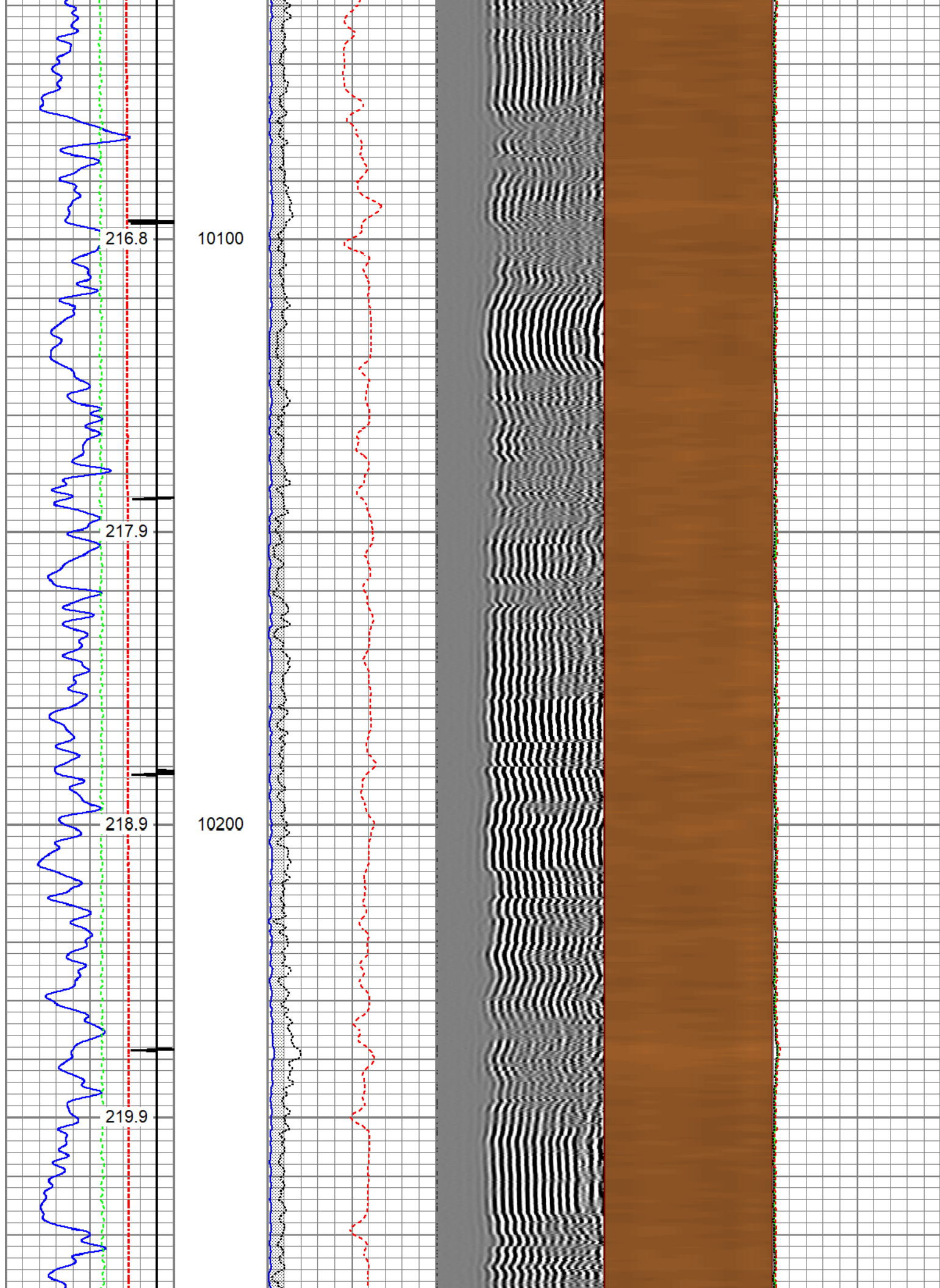


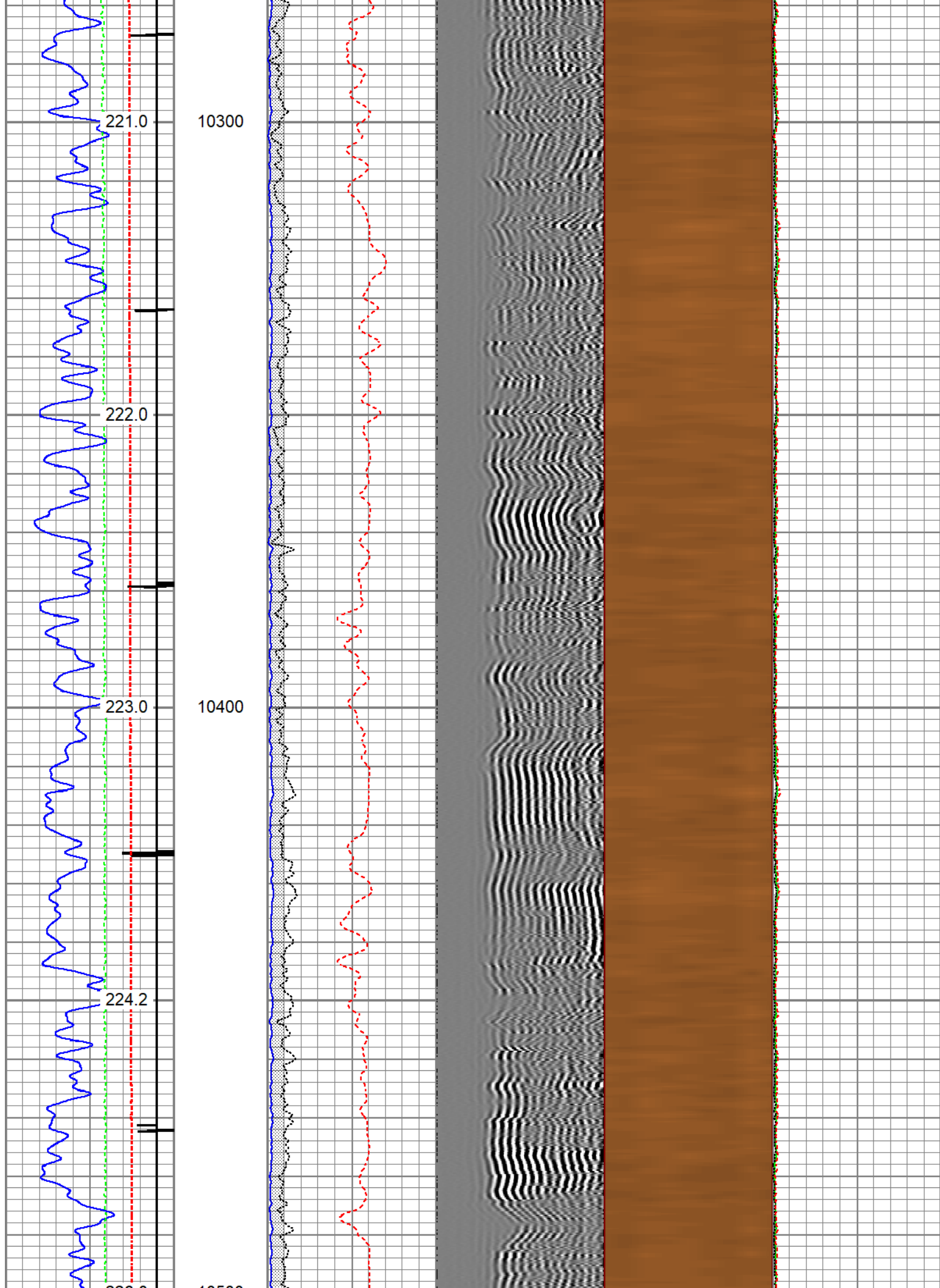


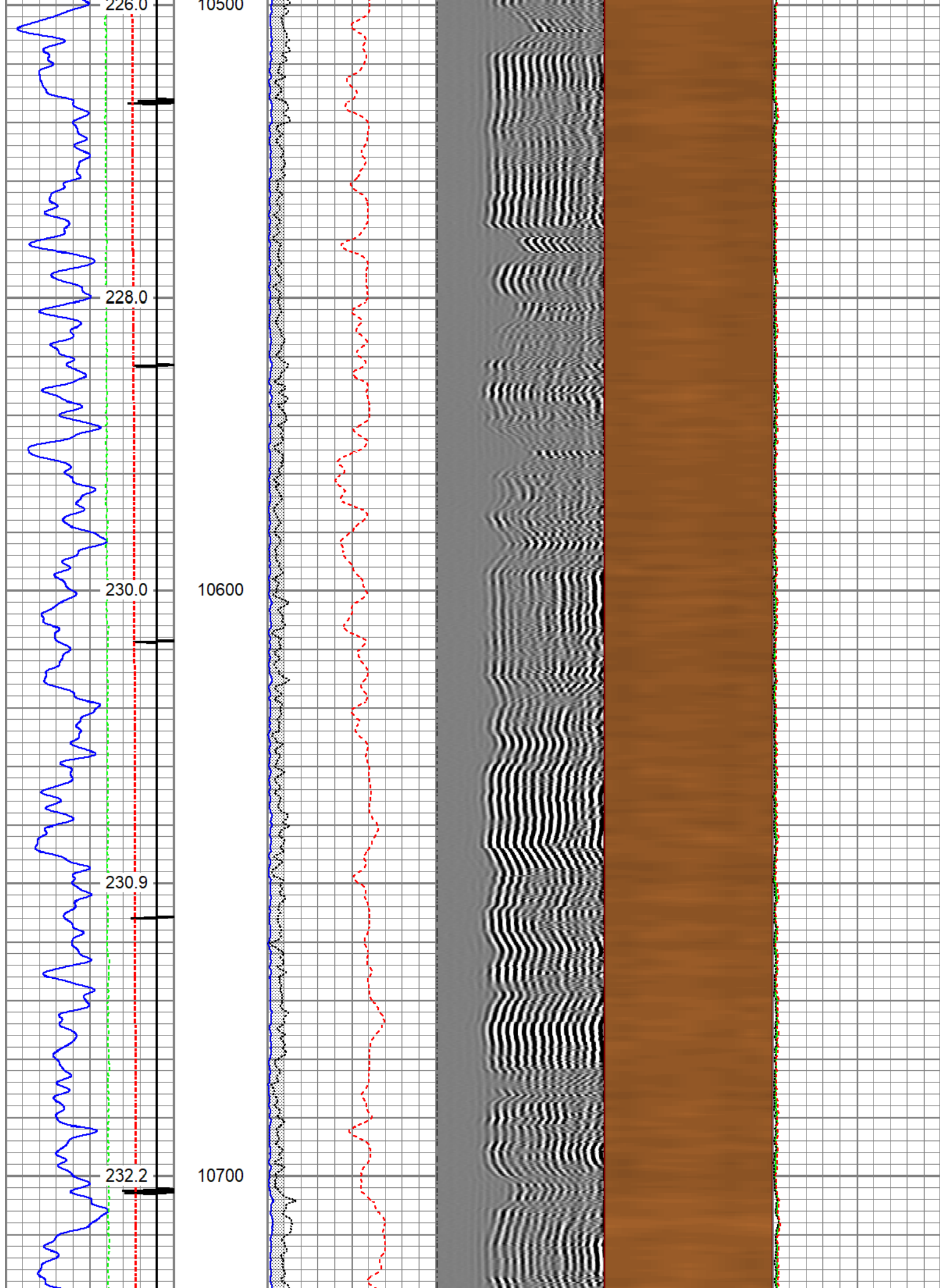




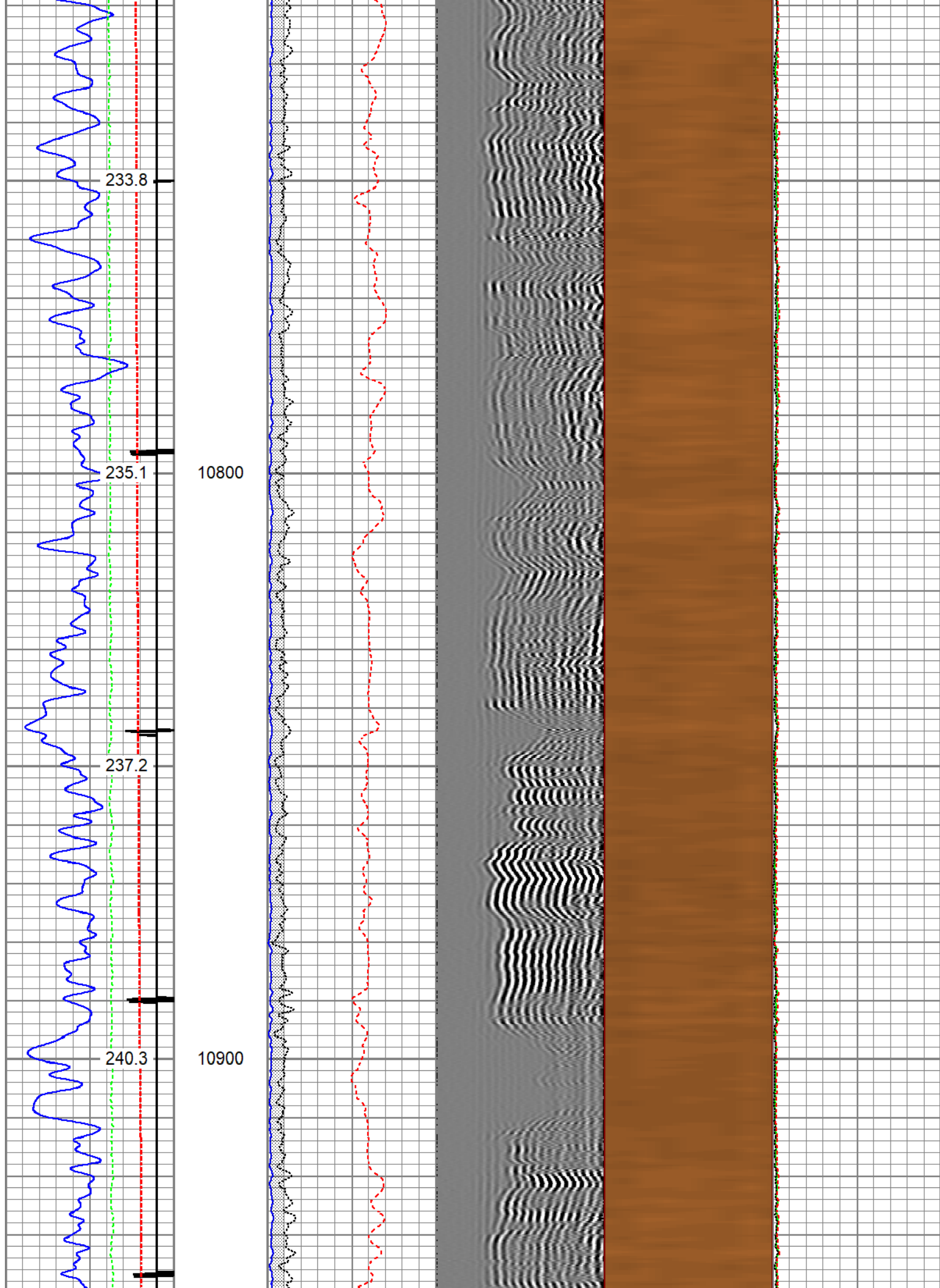


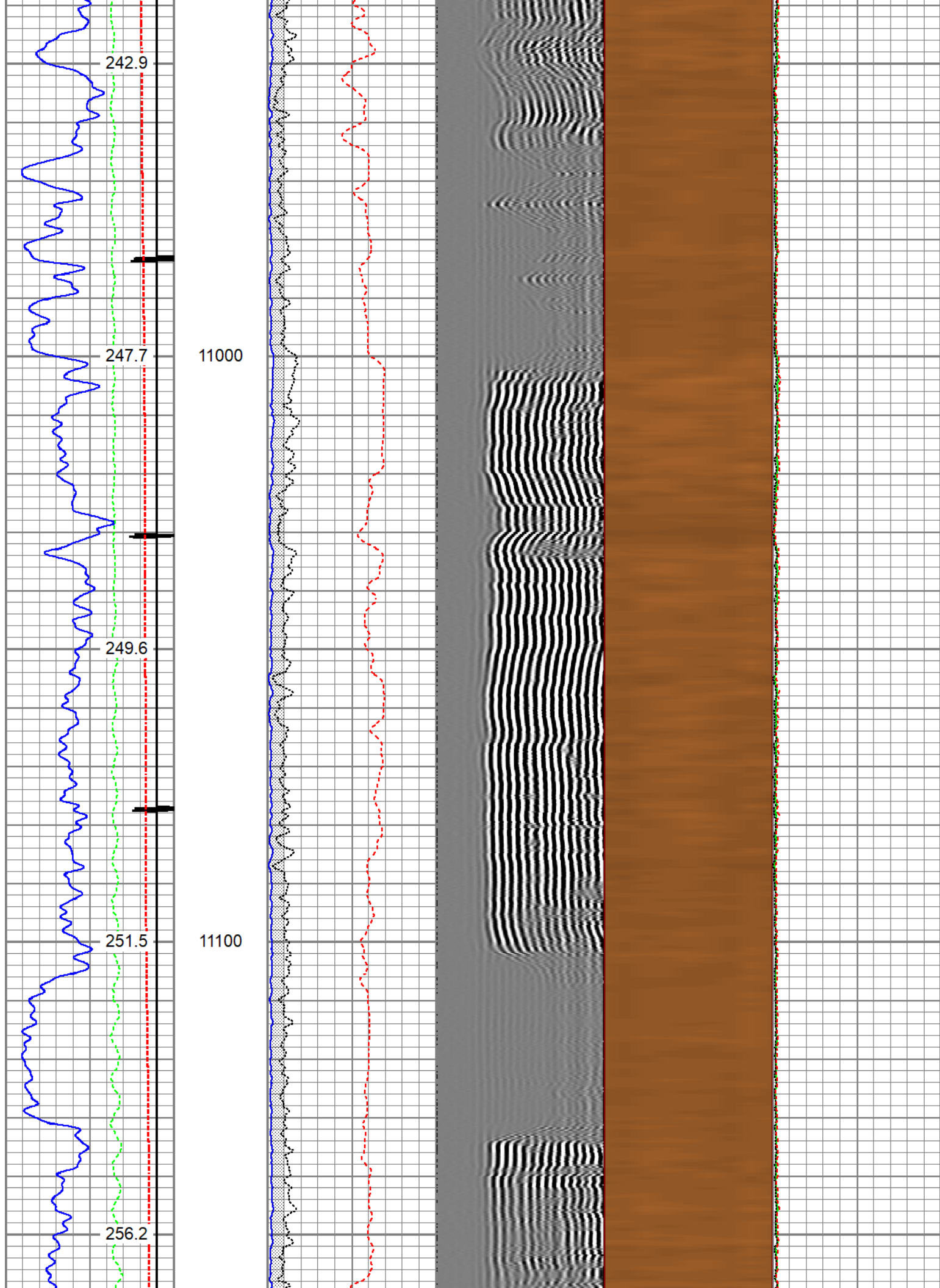


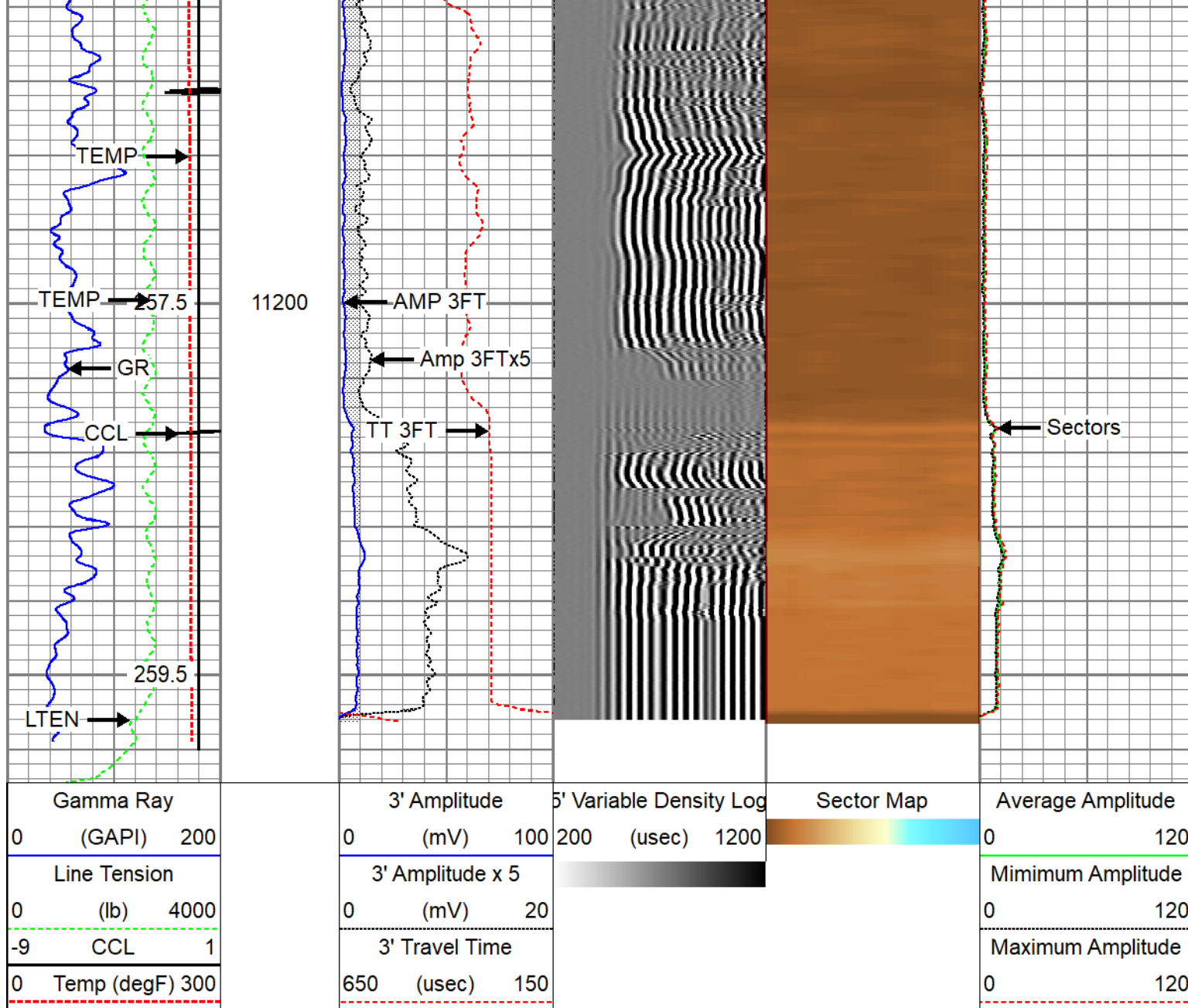













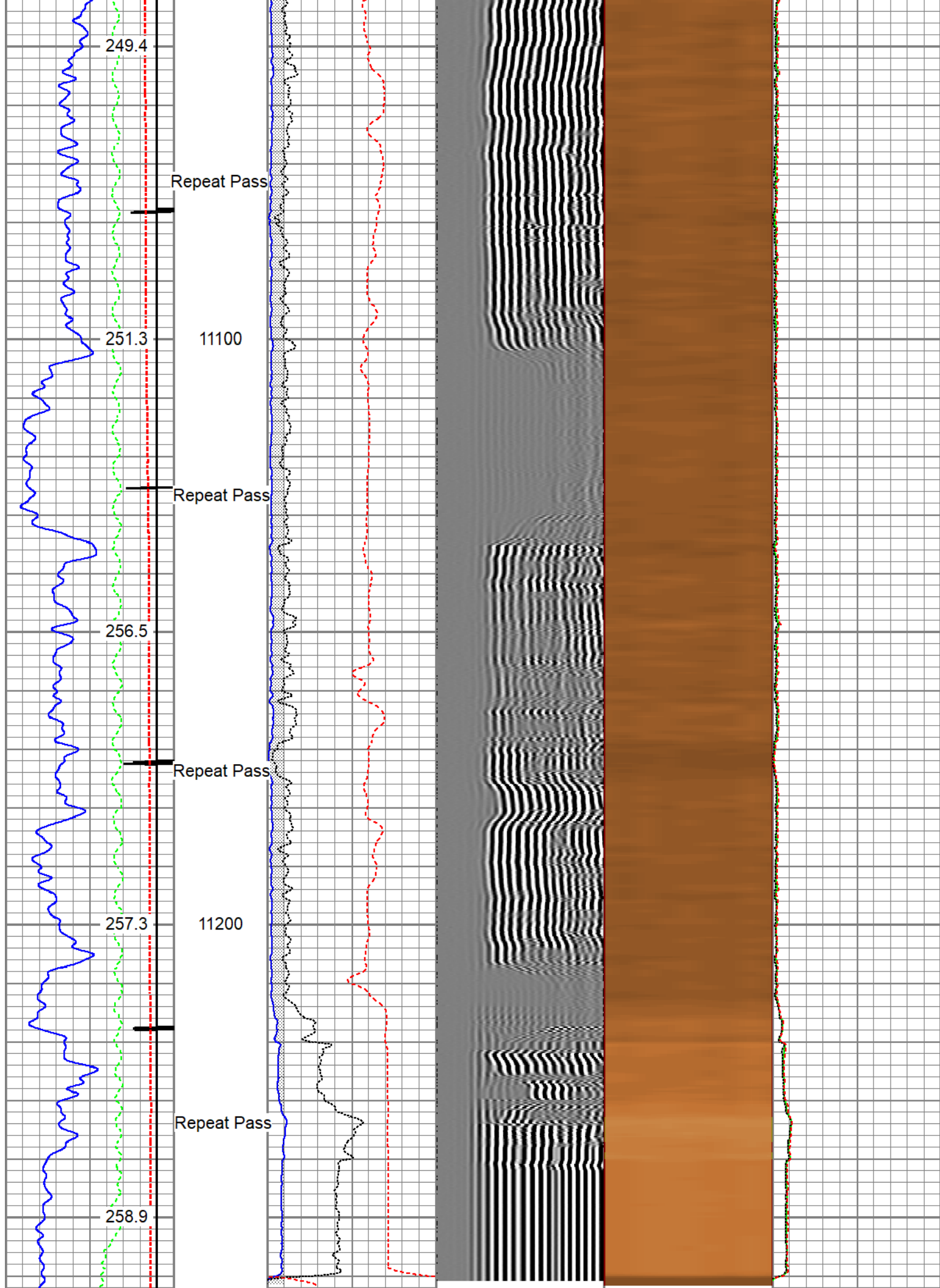


## Repeat Pass 5" = 100'

Database File	tep_wmc fed 432-20_rcbl_1-3-2023.db
Dataset Pathname	repeat
Presentation Format	twgrcbl
Dataset Creation	Tue Jan 03 15:28:52 2023
Charted by	Depth in Feet scaled 1:240

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





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 432-20_rcbl_1-3-2023.db
Dataset Pathname	main
Dataset Creation	Tue Jan 03 15:34:43 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

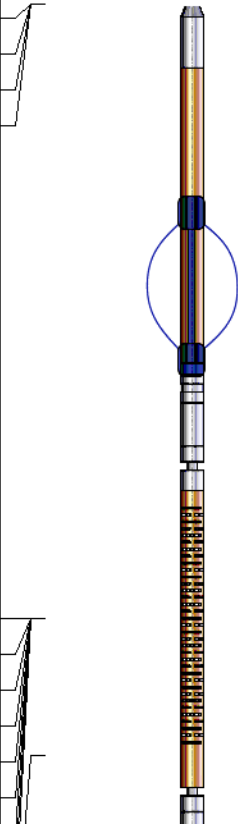
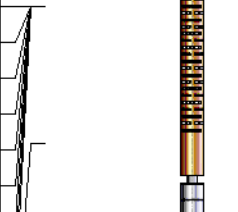
Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1312-30	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	278.924	ft

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
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	
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					
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					
GCT_IntTemp	2.00					
			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
			Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00
Dataset: tep_wmc fed 432-20_rcbl_1-3-2023.db: field/well/run1/main						
Total length: 13.85 ft						
Total weight: 186.00 lb						
O.D.: 3.25 in						