



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC
Well Federal WMC 33-20
Field Rulison
County Garfield
State Colorado

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Well Federal WMC 33-20
Field Rulison
County Garfield
State Colorado

Location: API # : 05-045-24488

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 02-JAN-2023

Run Number One

Depth Driller 11611 FT

Depth Logger 11477 FT

Bottom Logged Interval 11470 FT

Top Log Interval Surface

Open Hole Size 8.75"

Type Fluid Water

Density / Viscosity 8.34 Lb/Gal

Max. Recorded Temp. 259°F

Estimated Cement Top See Log

Time Well Ready ROA

Time Logger on Bottom 11:45

Equipment Number 8045

Location Grand Junction

Recorded By A. Ellsworth

Witnessed By D. Welsh

Run Number

Bit From To

Size

Weight From To

Size Wgt/Ft Top Bottom

9-5/8" 36 Surface 1135 FT

4-1-2" 11.6 Surface 11601 FT

Comments

Log ran as per customer request
Depth referenced to Kelly Bushing at 30 FT
Marker joint logged from 7328 FT to 7338 FT



Thank you for choosing The Wireline Group!

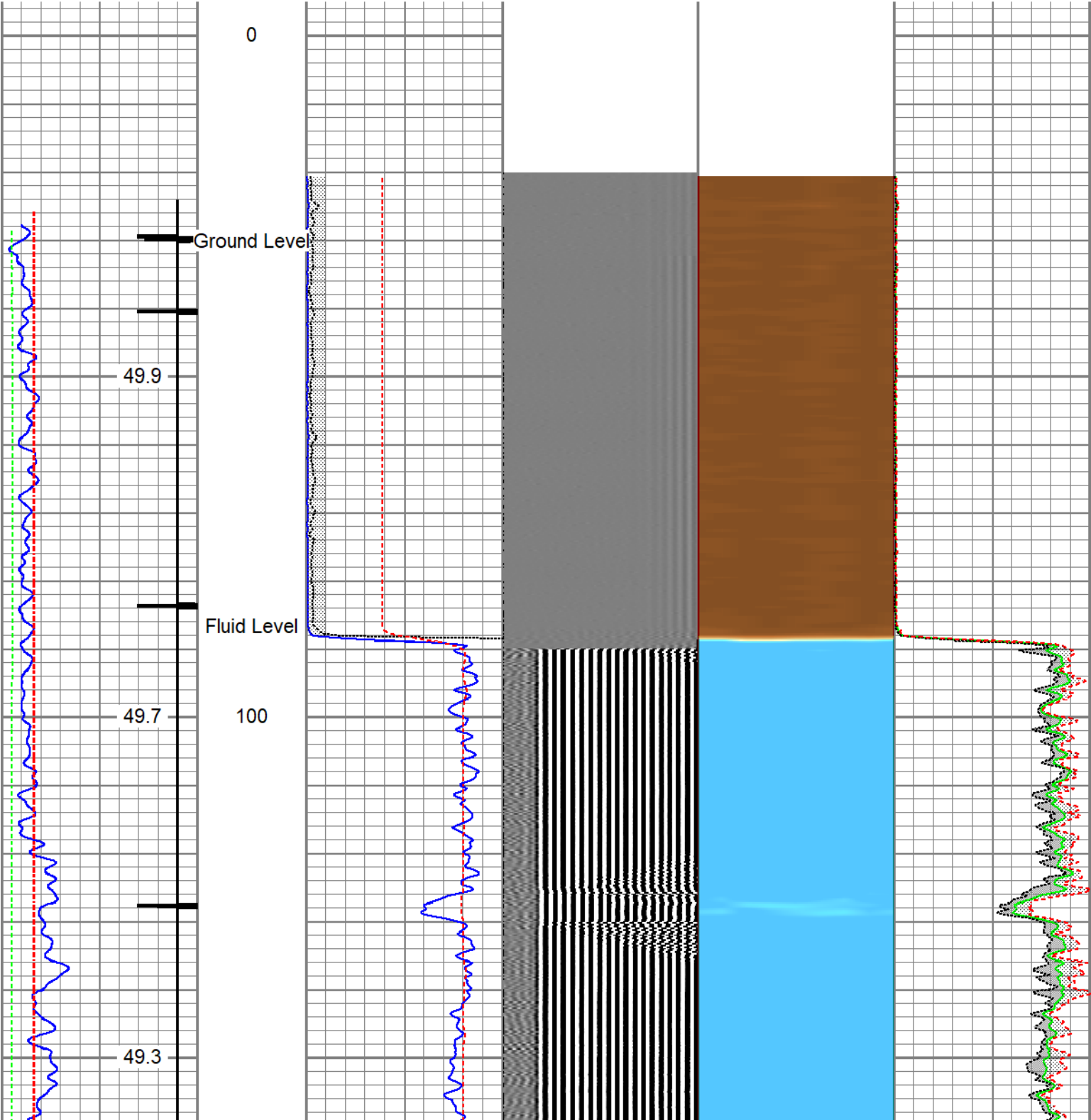


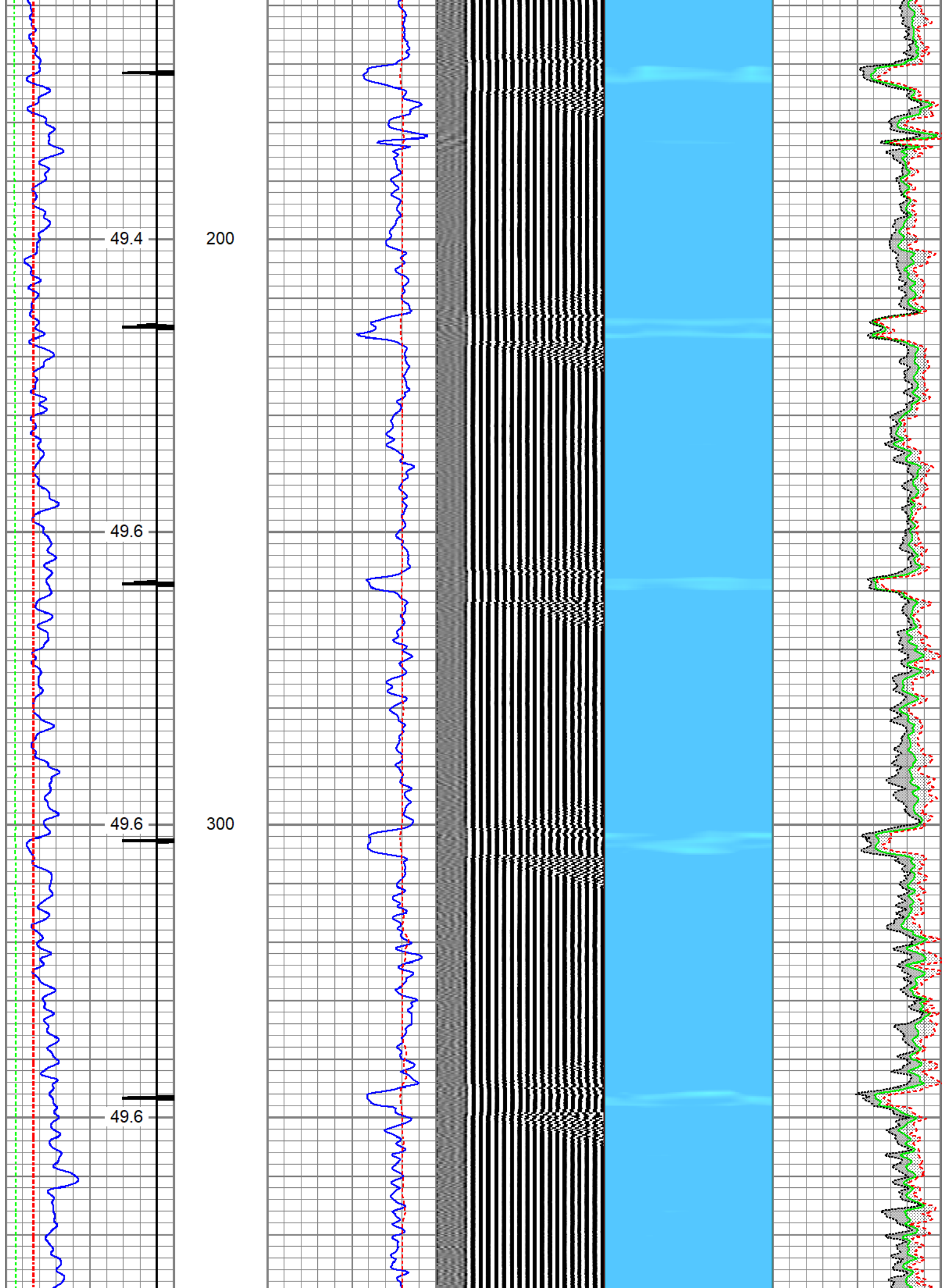
Main Pass 5" = 100'

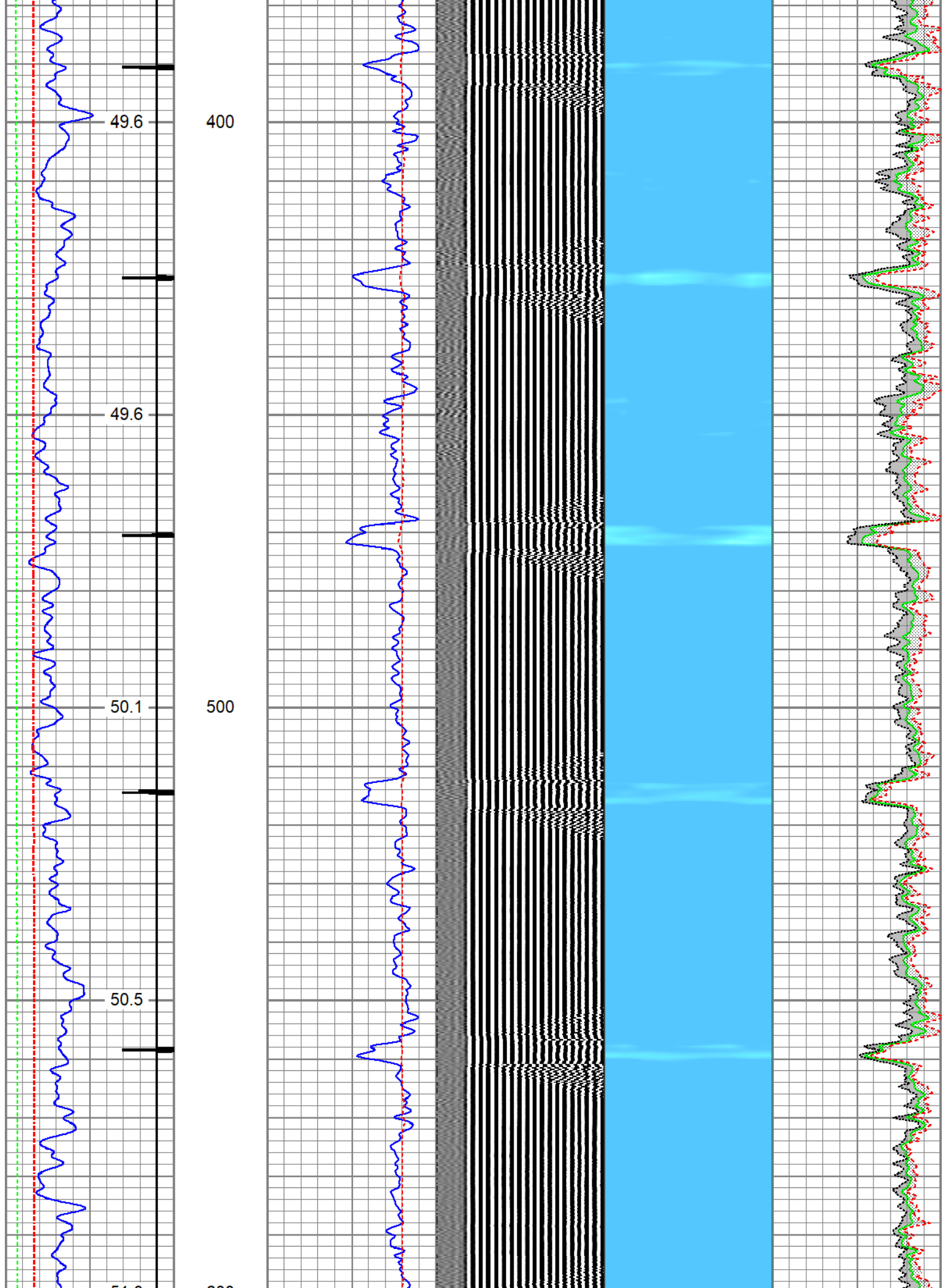
Database File
Dataset Pathname
Presentation Format
Dataset Creation
Charted by

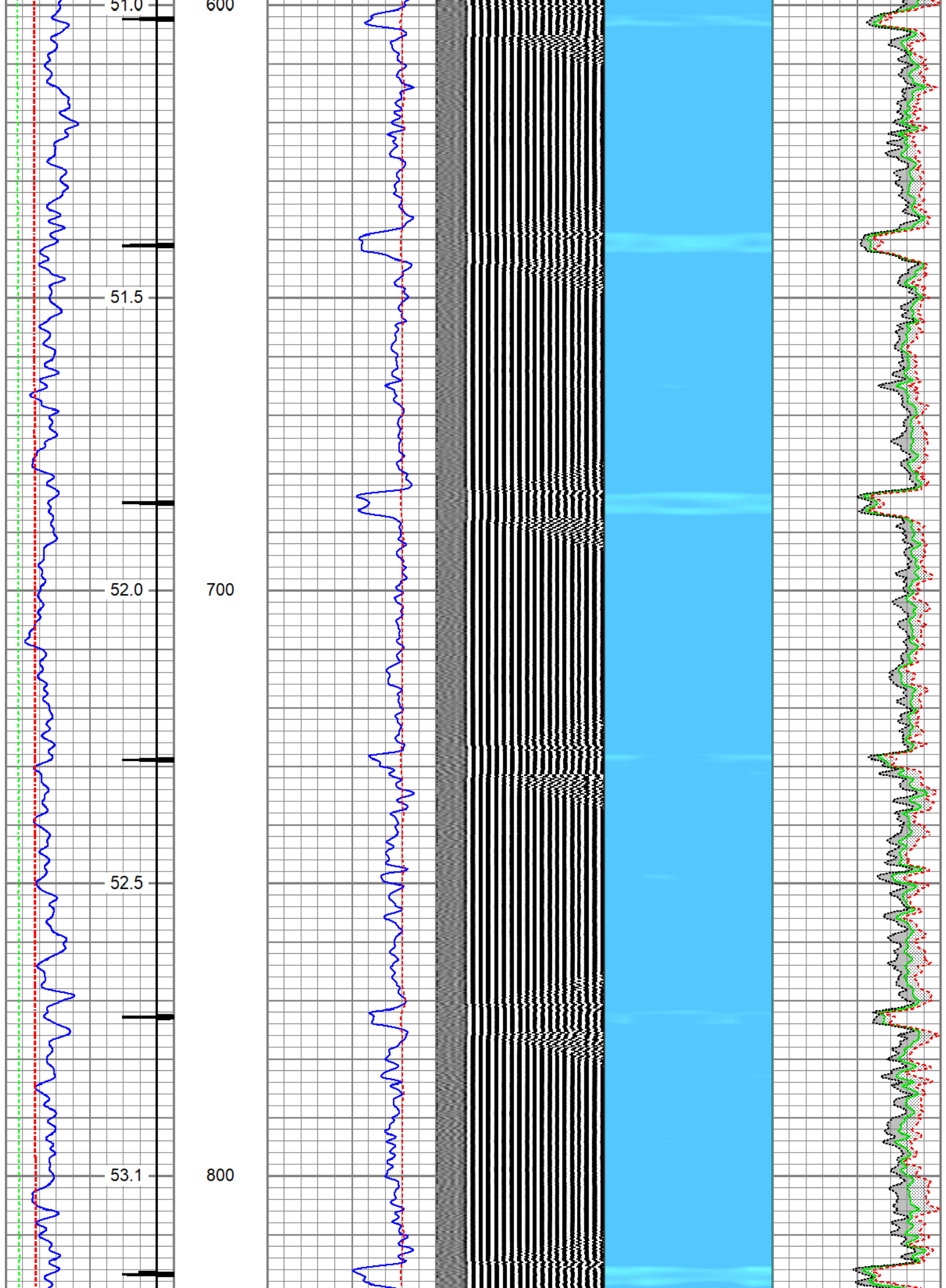
tep_wmc fed 33-20_rcbl_1-2-2023.db
main.1
twgrcbl
Mon Jan 02 16:44:06 2023
Depth in Feet scaled 1:240

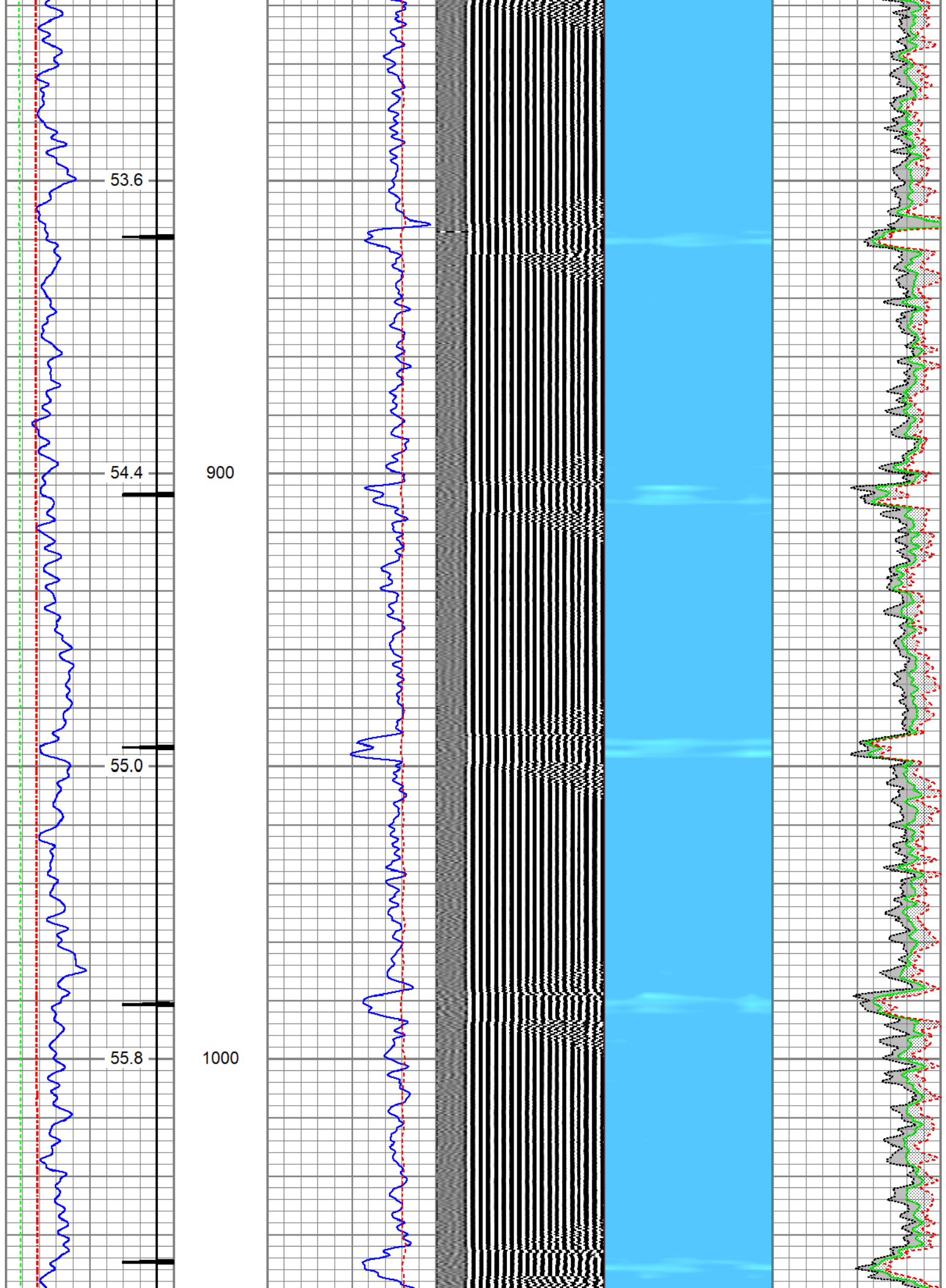
Gamma Ray			3' Amplitude			5' Variable Density Log			Sector Map			Average Amplitude		
0	(GAPI)	200	0	(mV)	100	200	(usec)	1200				0		120
Line Tension			3' Amplitude x 5						Minimum Amplitude					
0	(lb)	4000	0	(mV)	20				0		120			
CCL			3' Travel Time						Maximum Amplitude					
-9		1												
Temp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

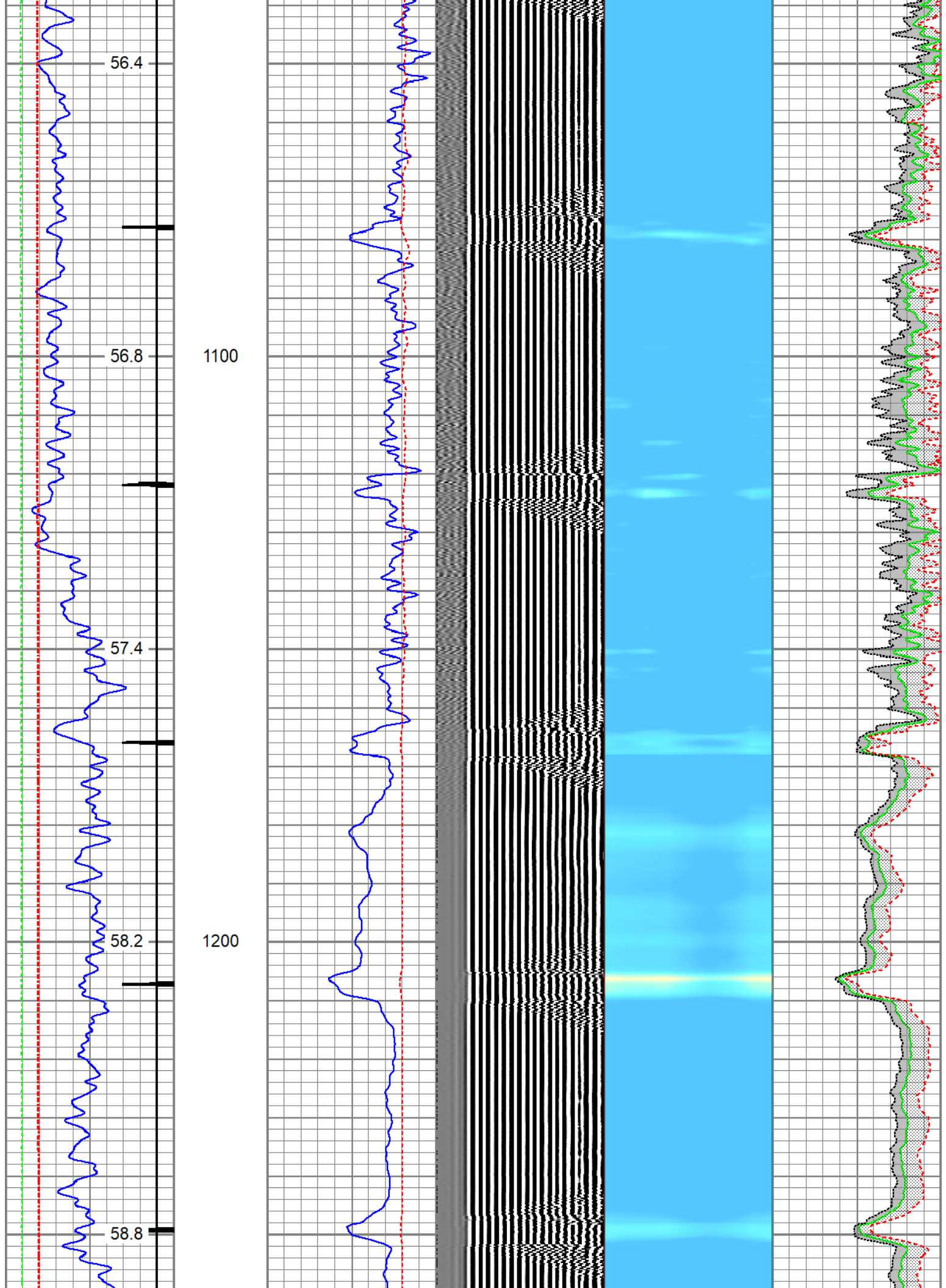


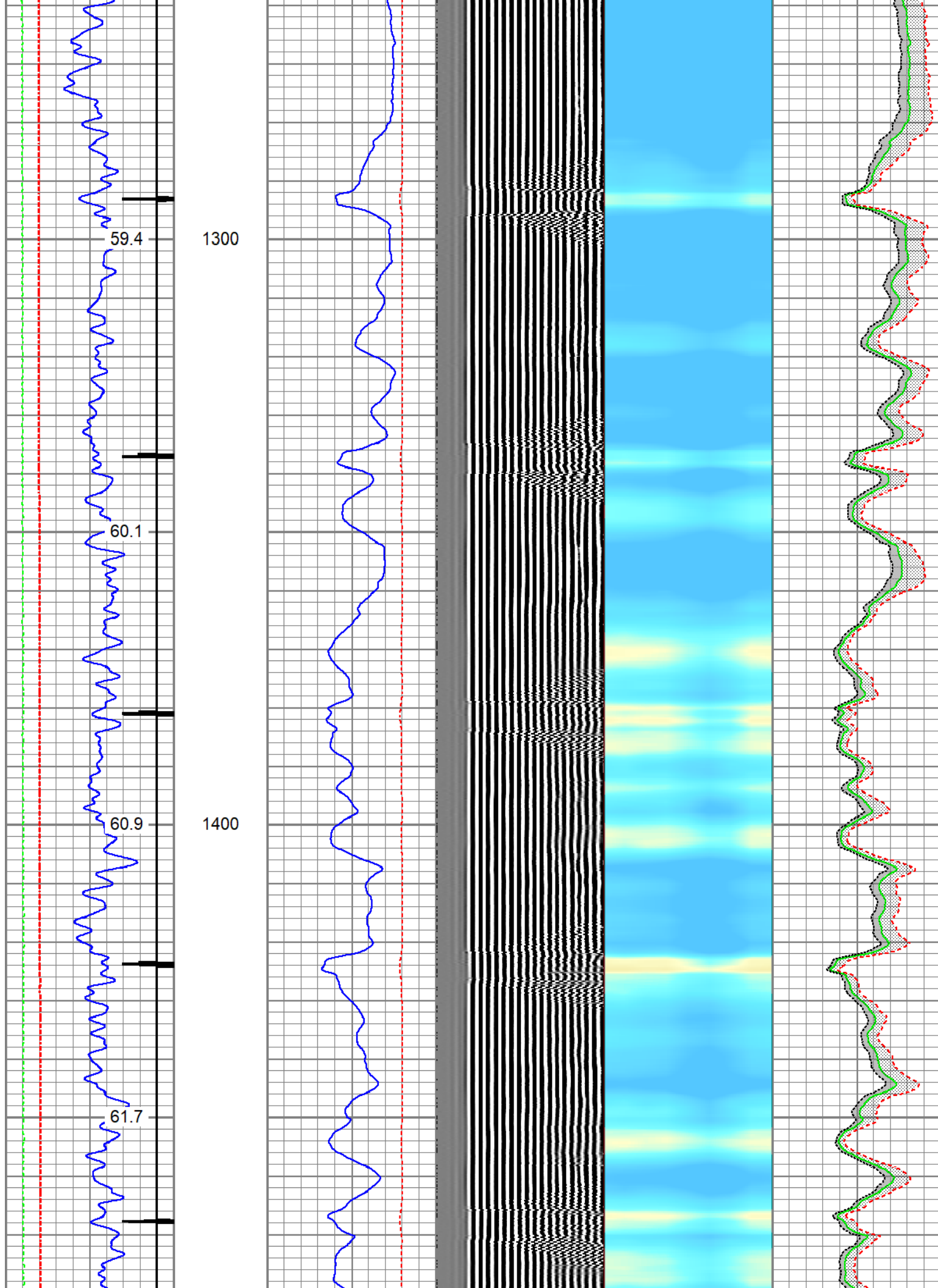


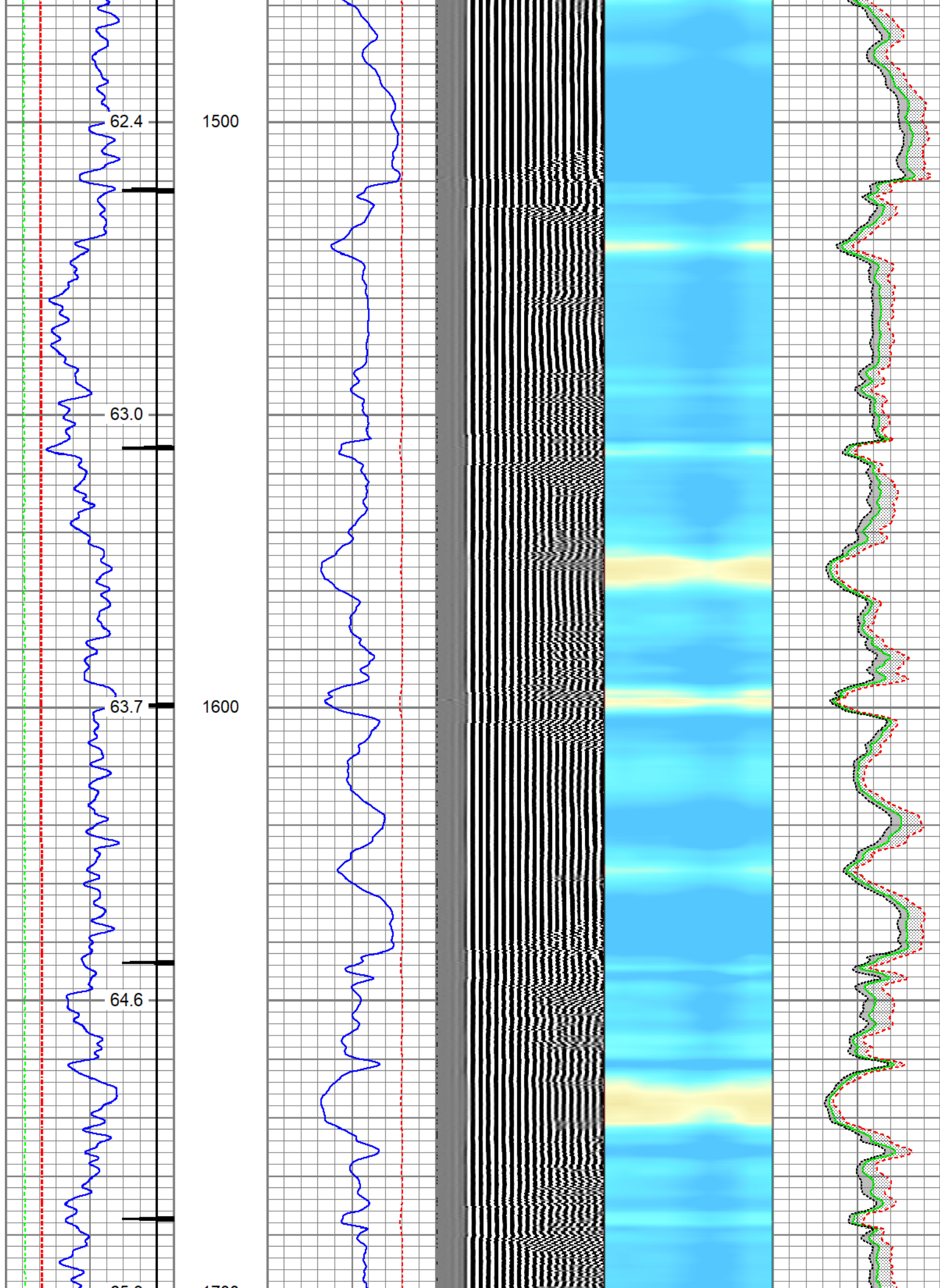


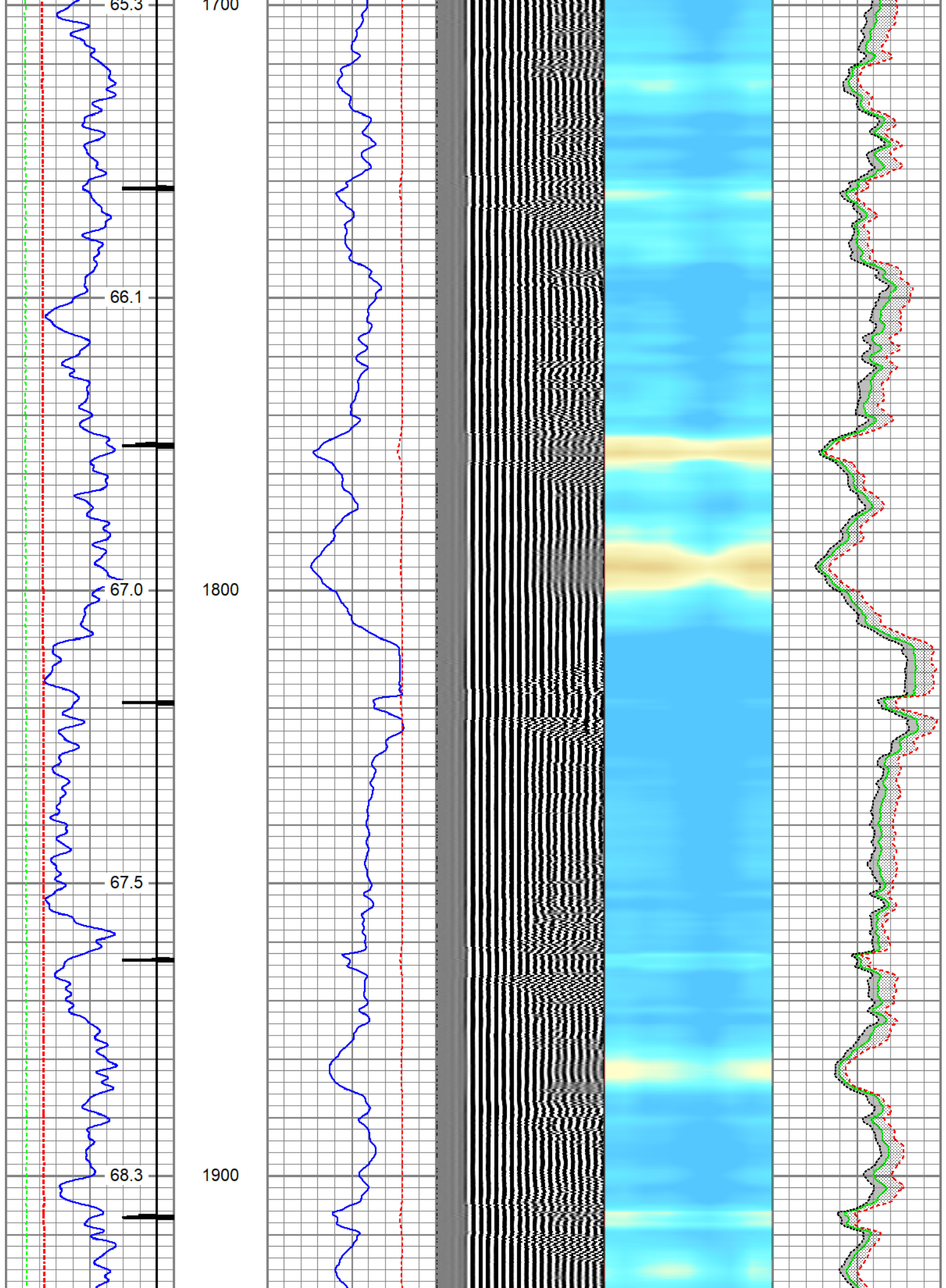


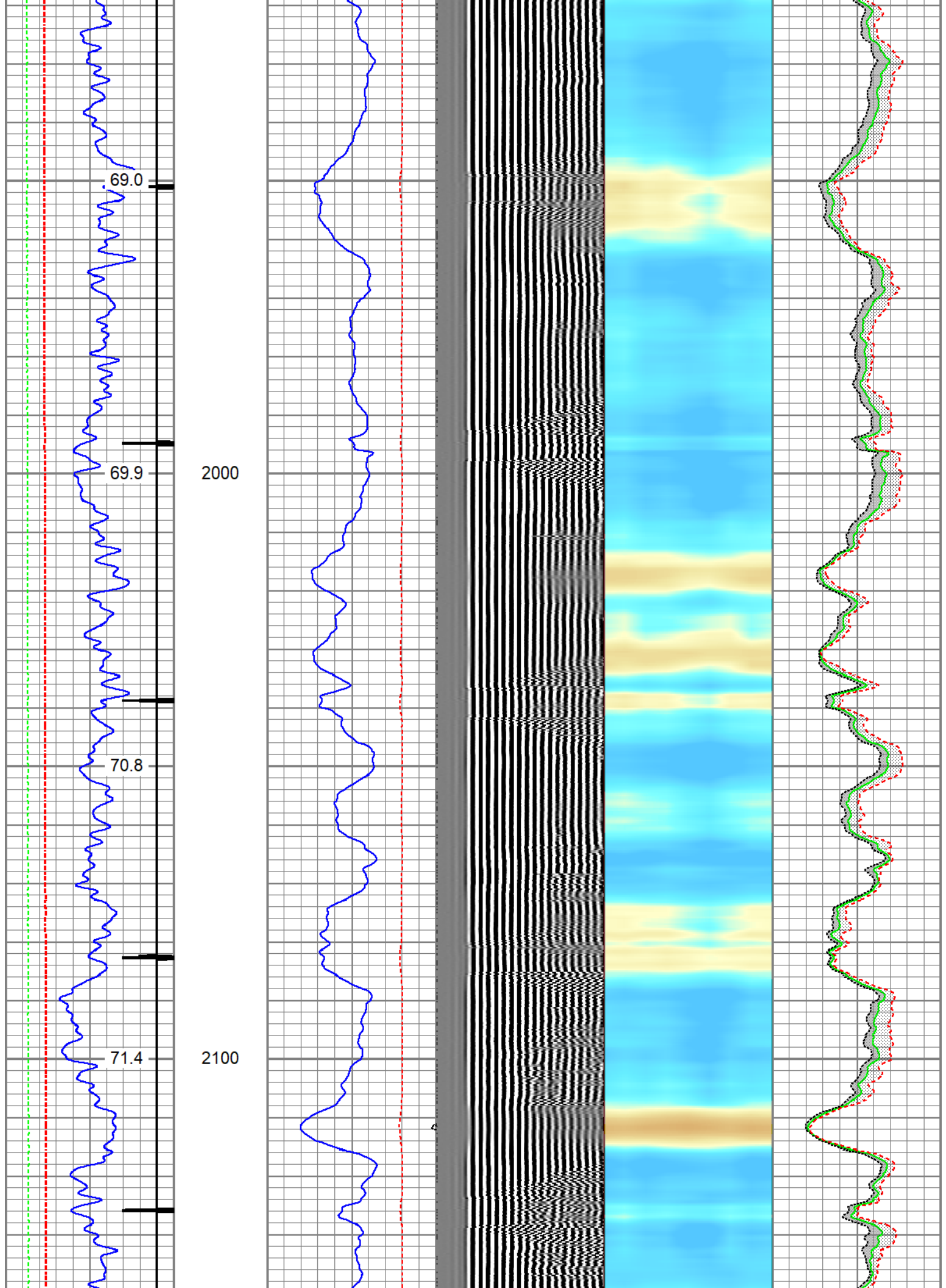


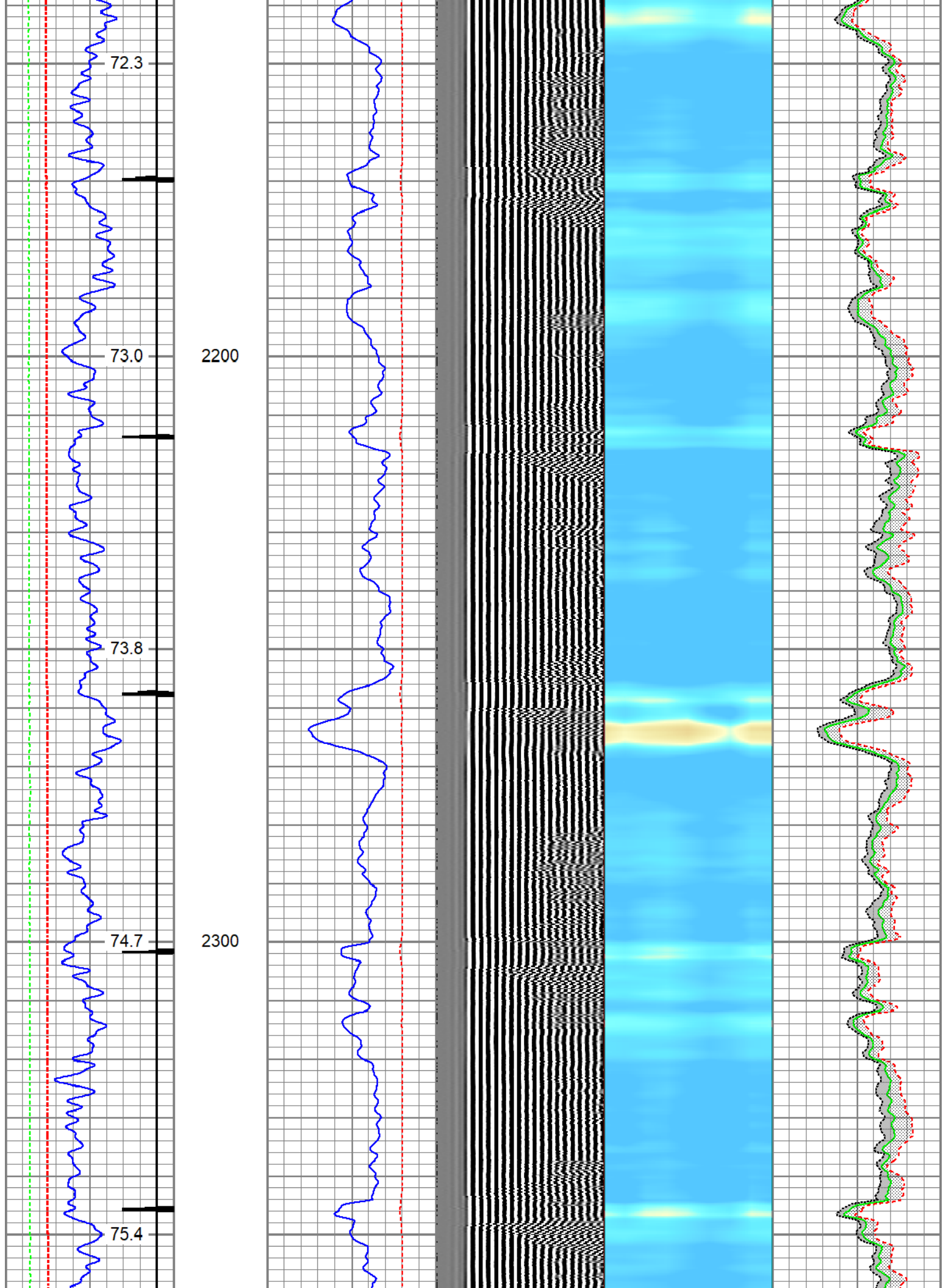


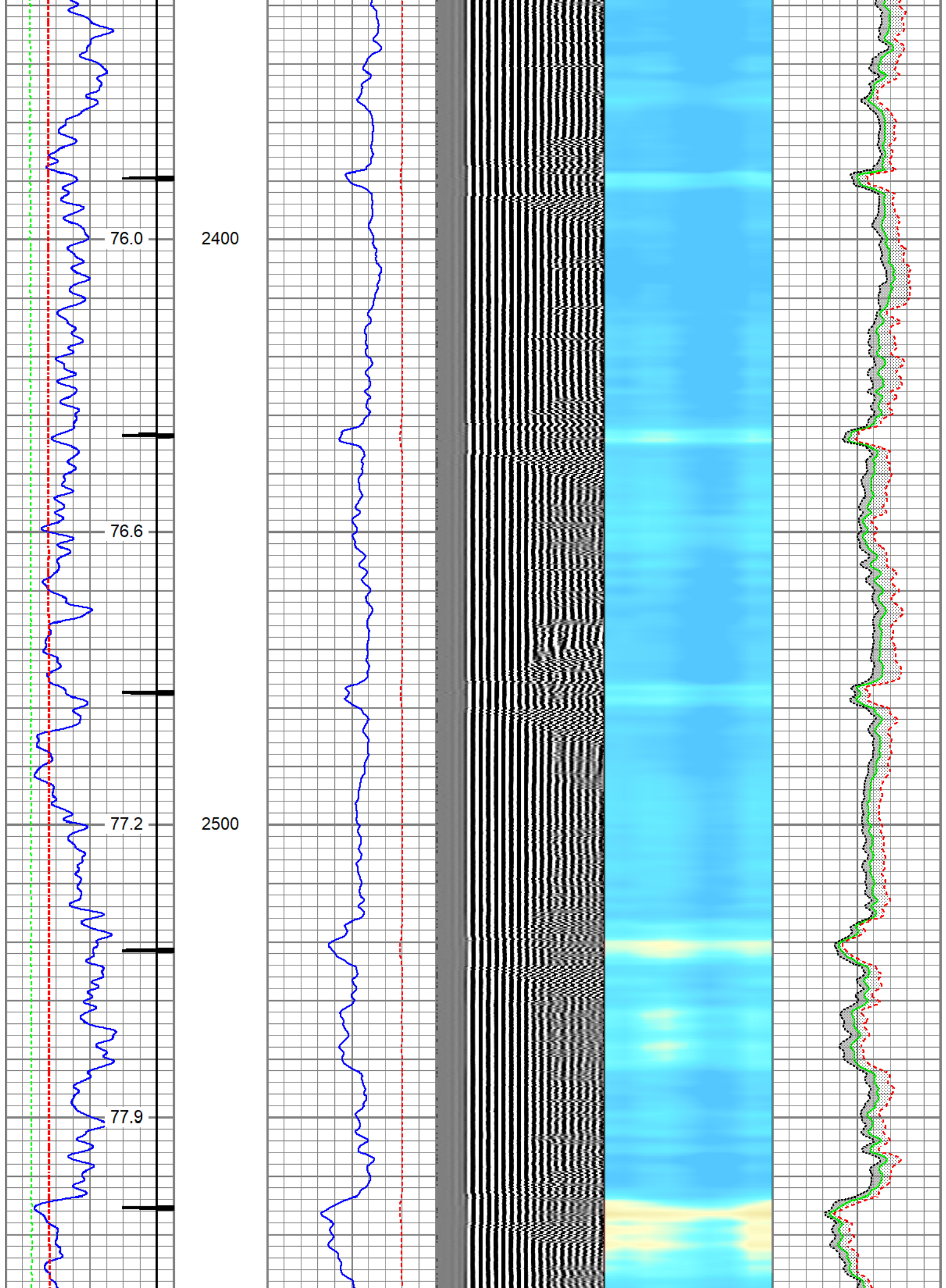


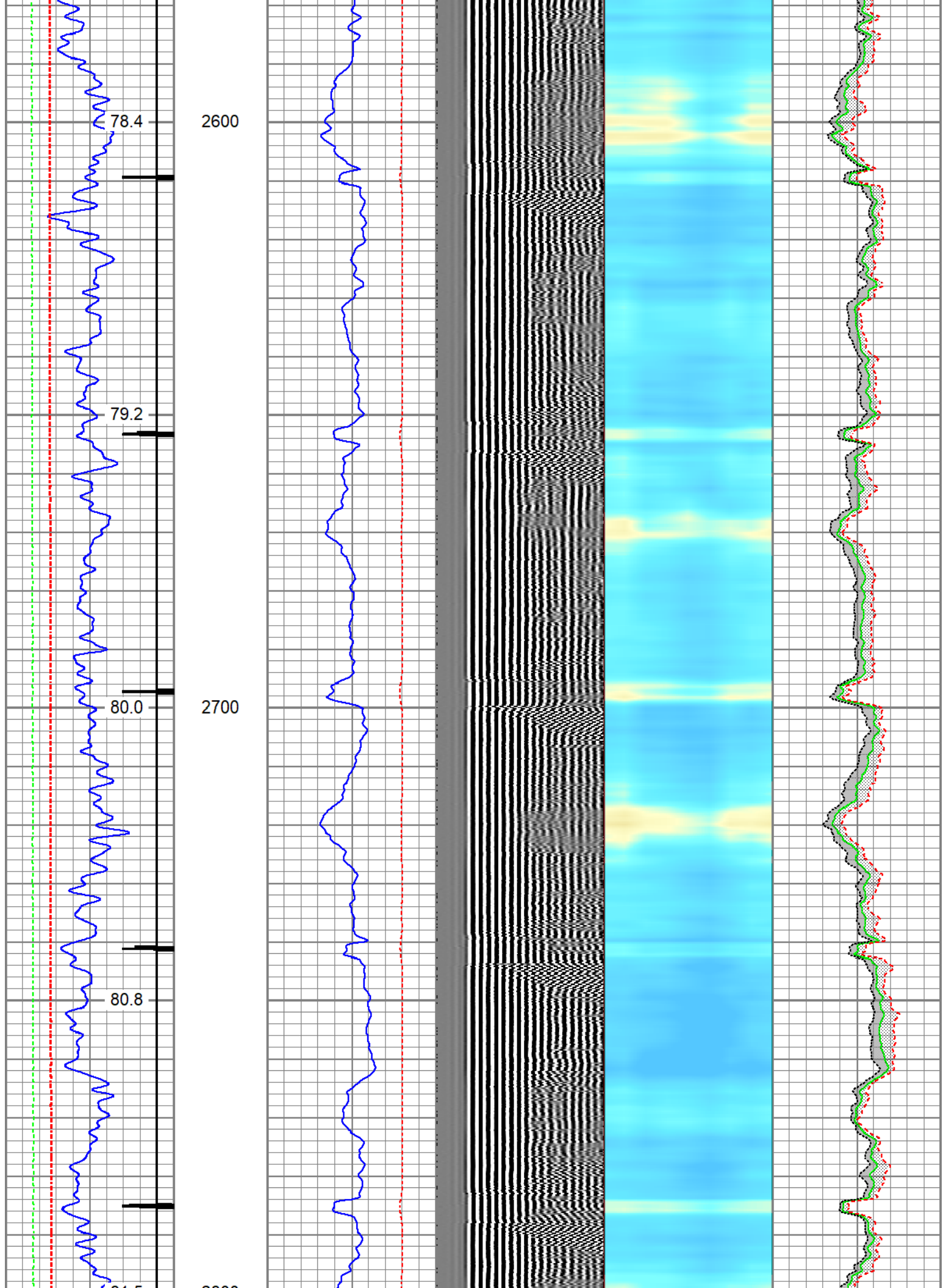


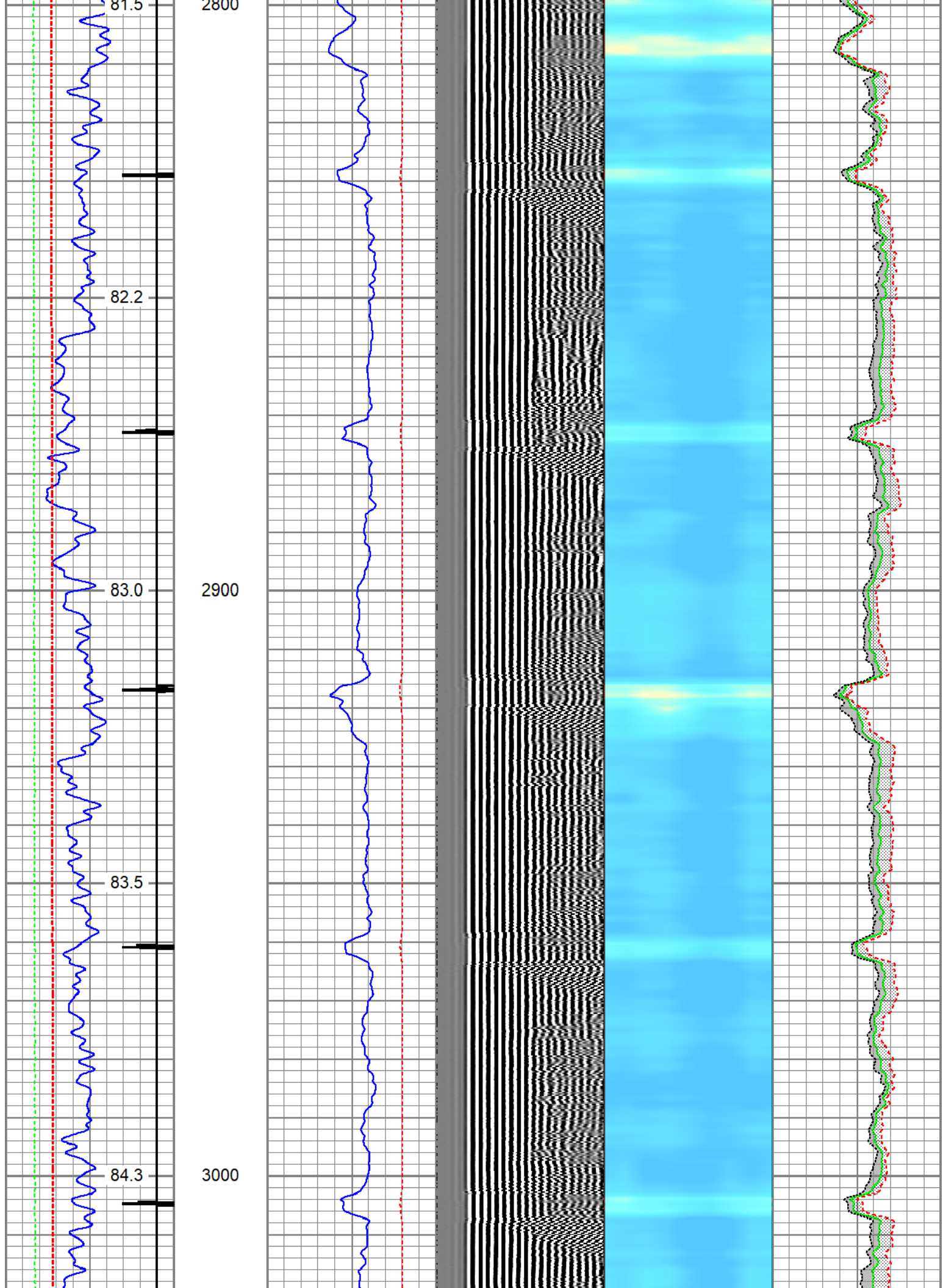


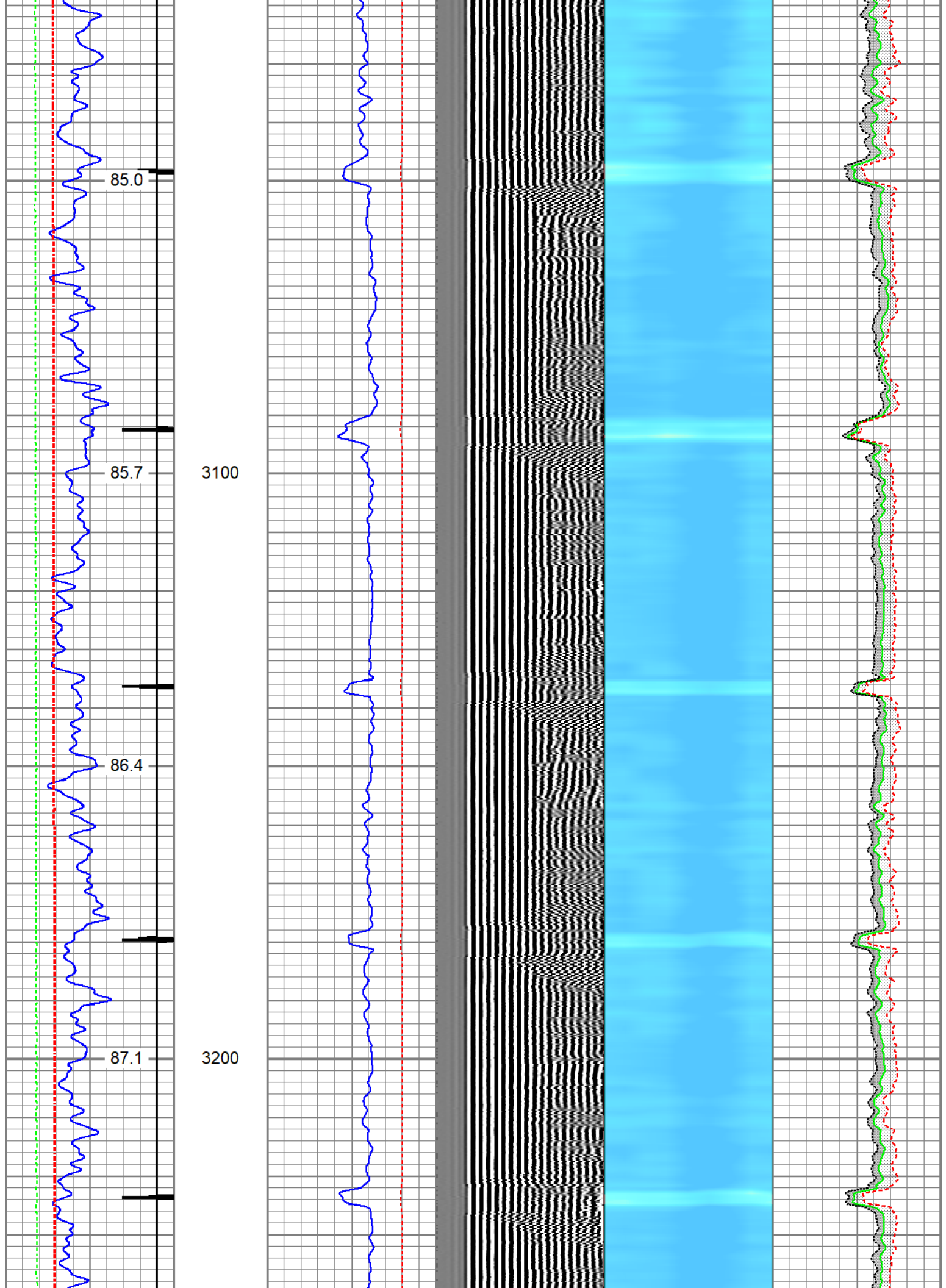


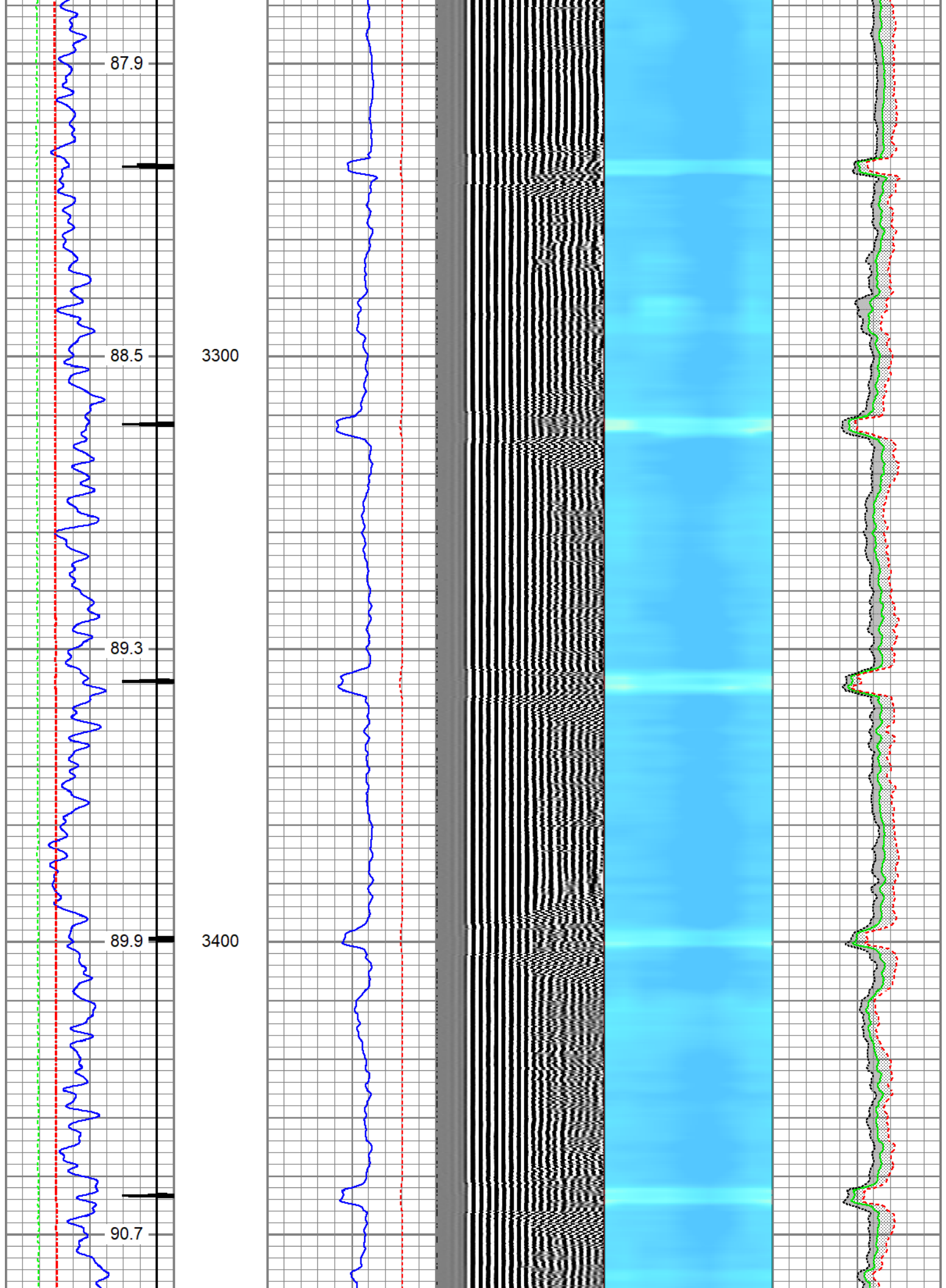


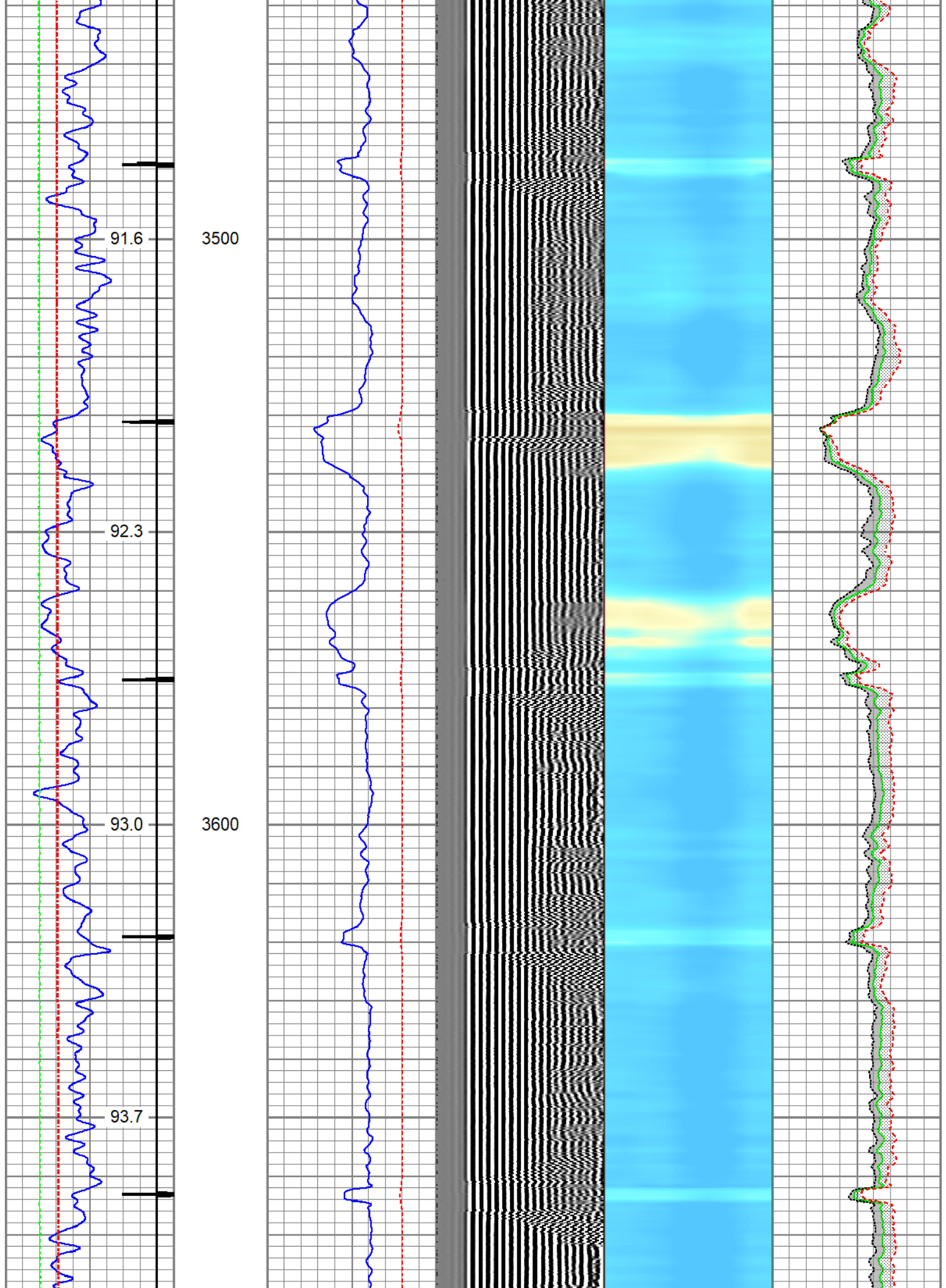


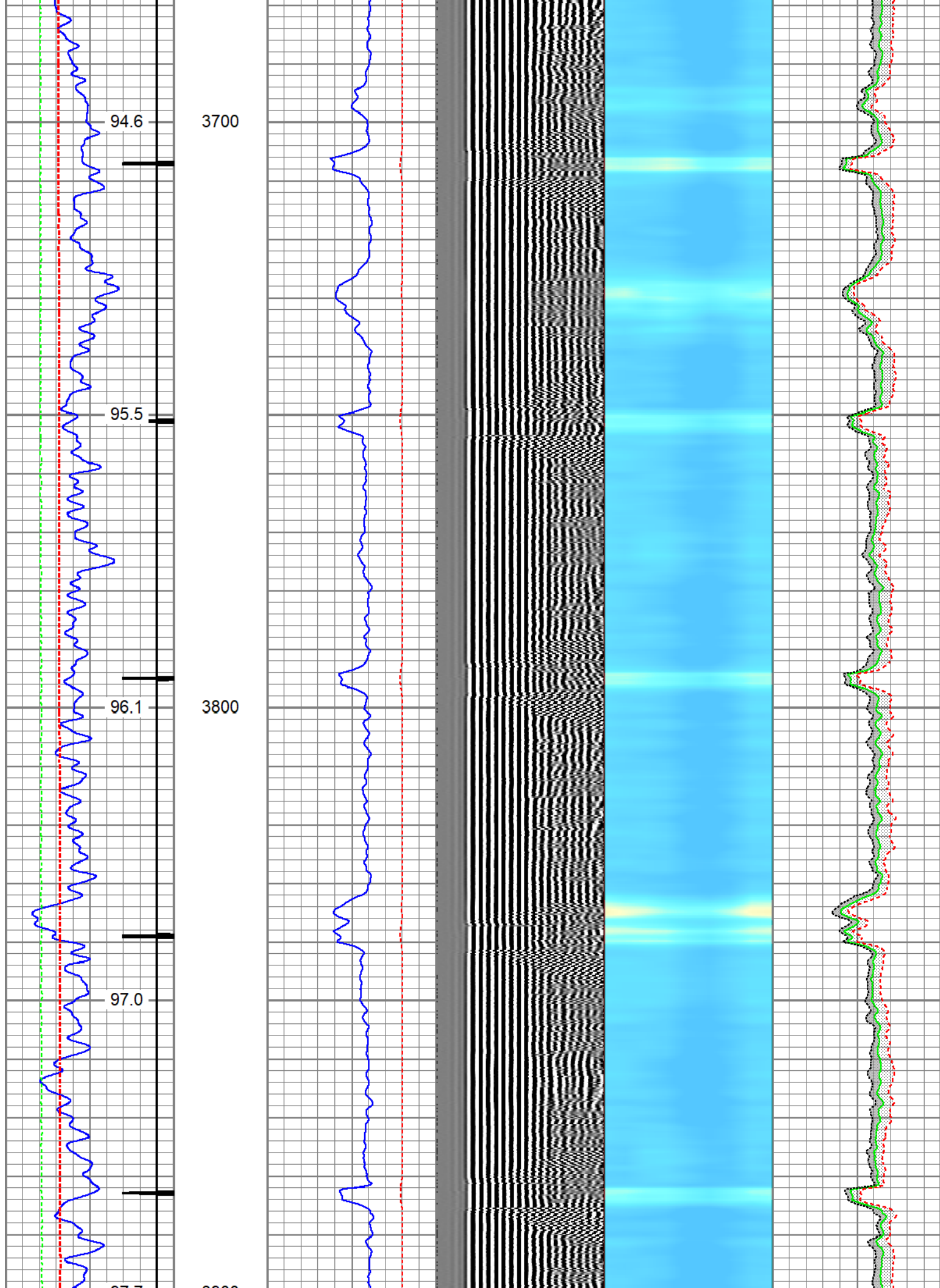


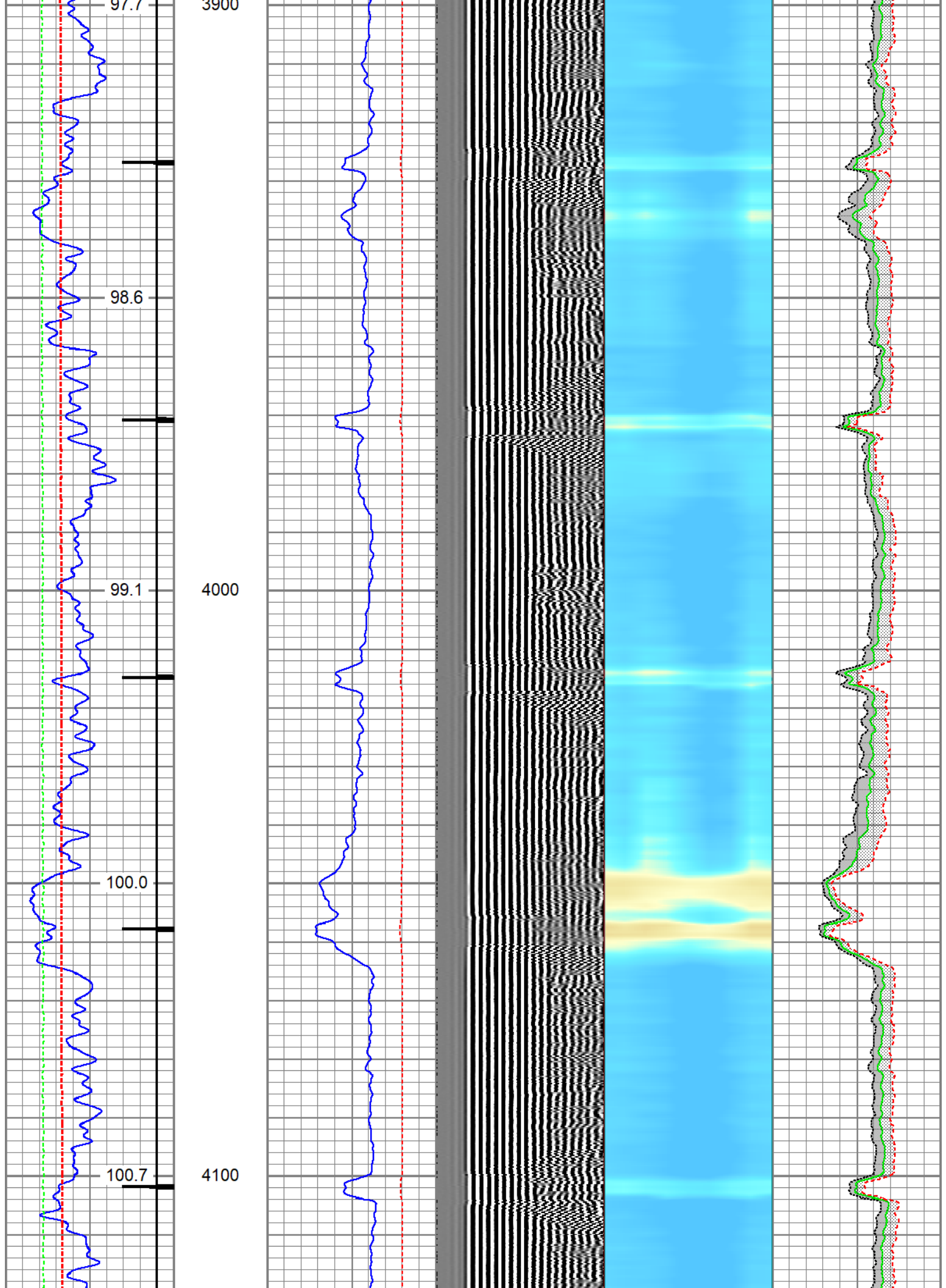


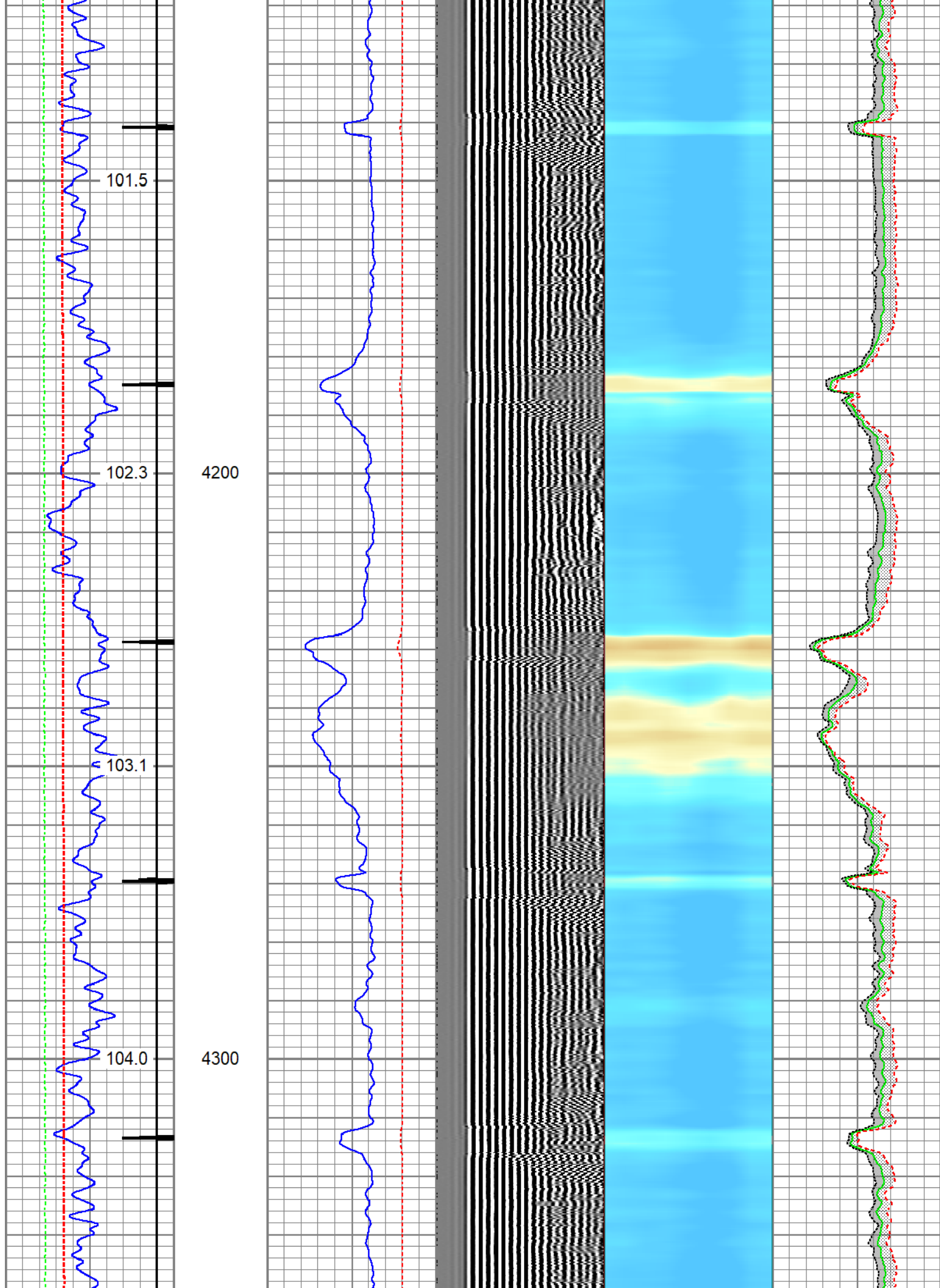


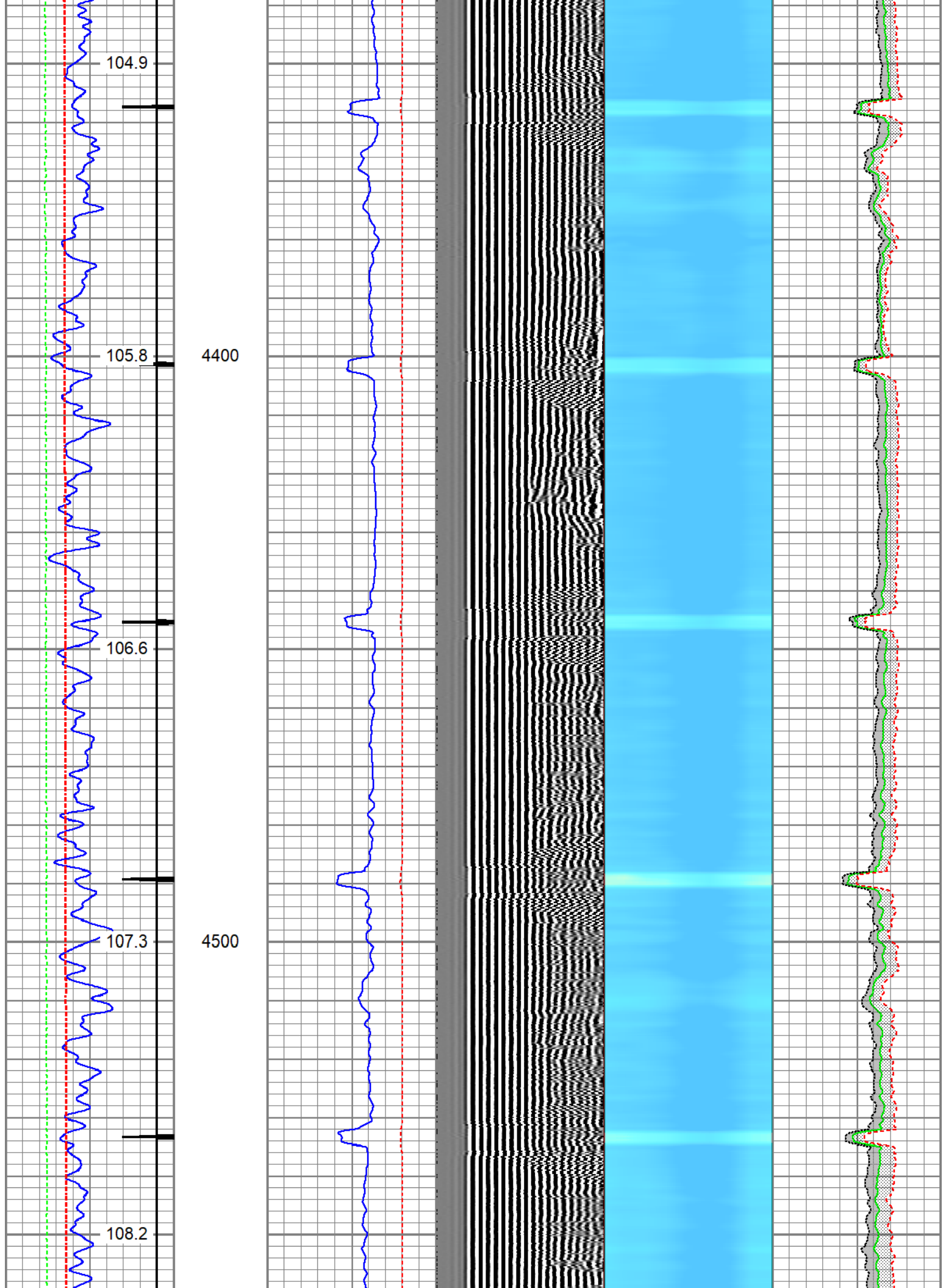


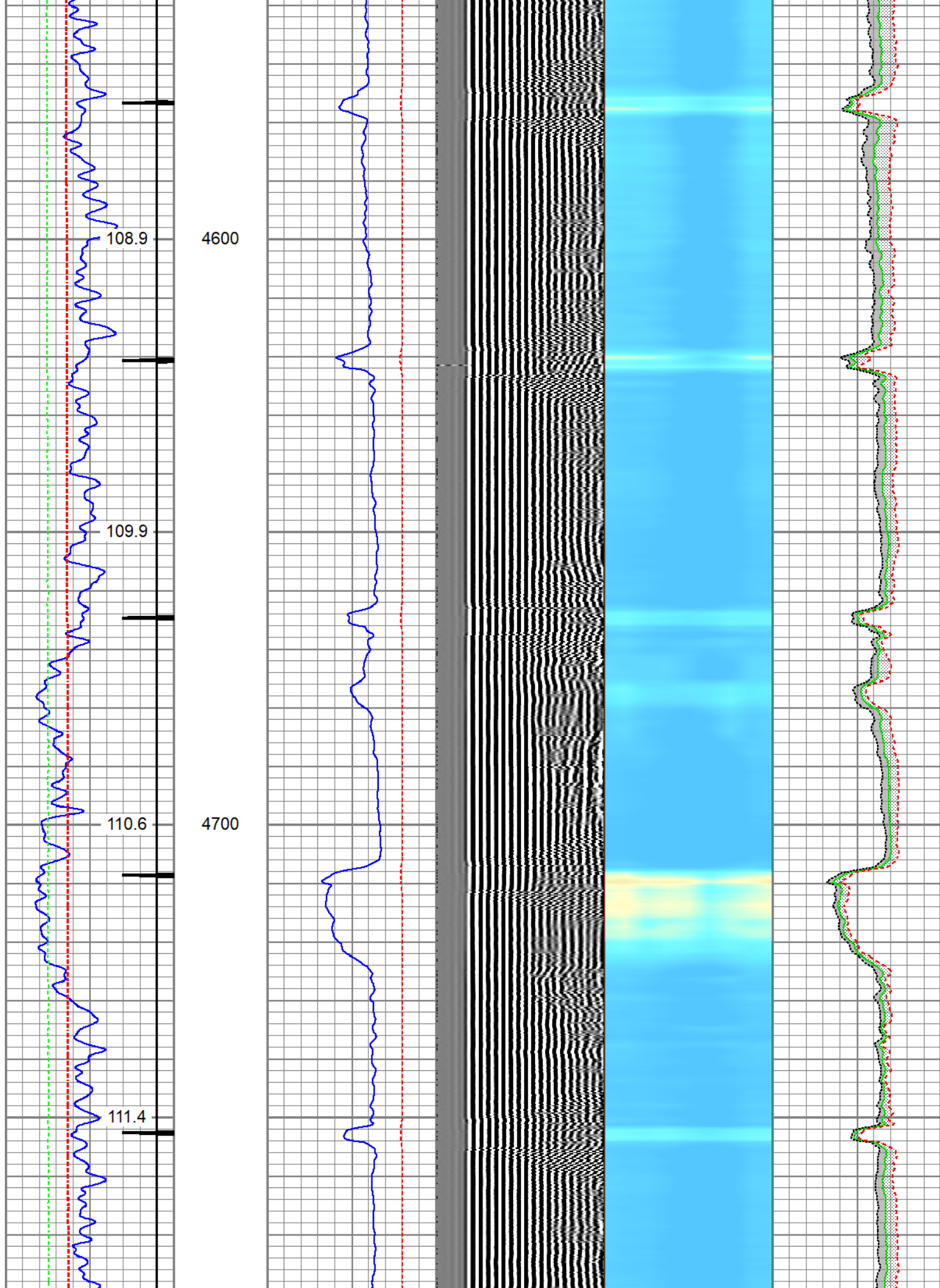


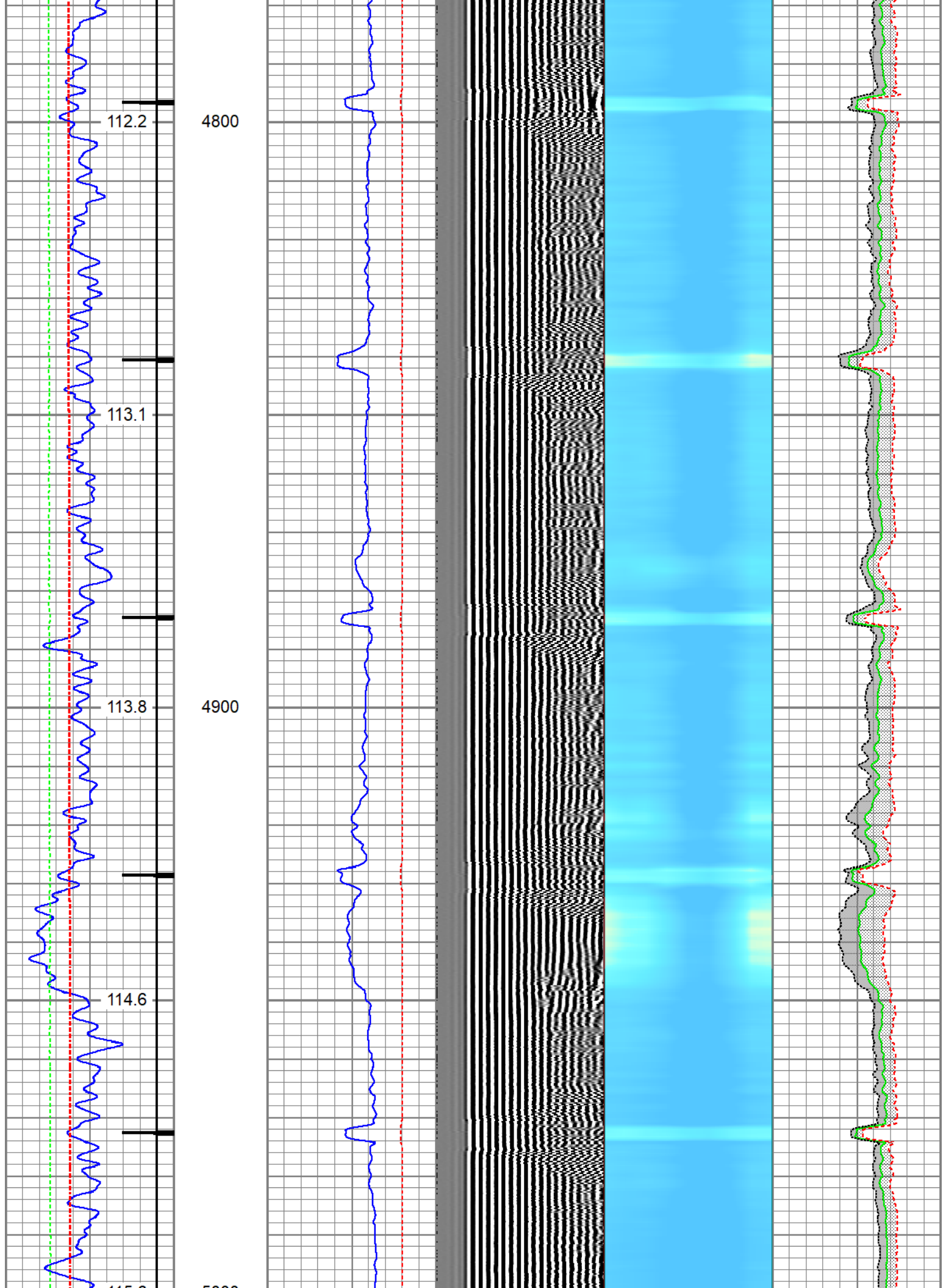


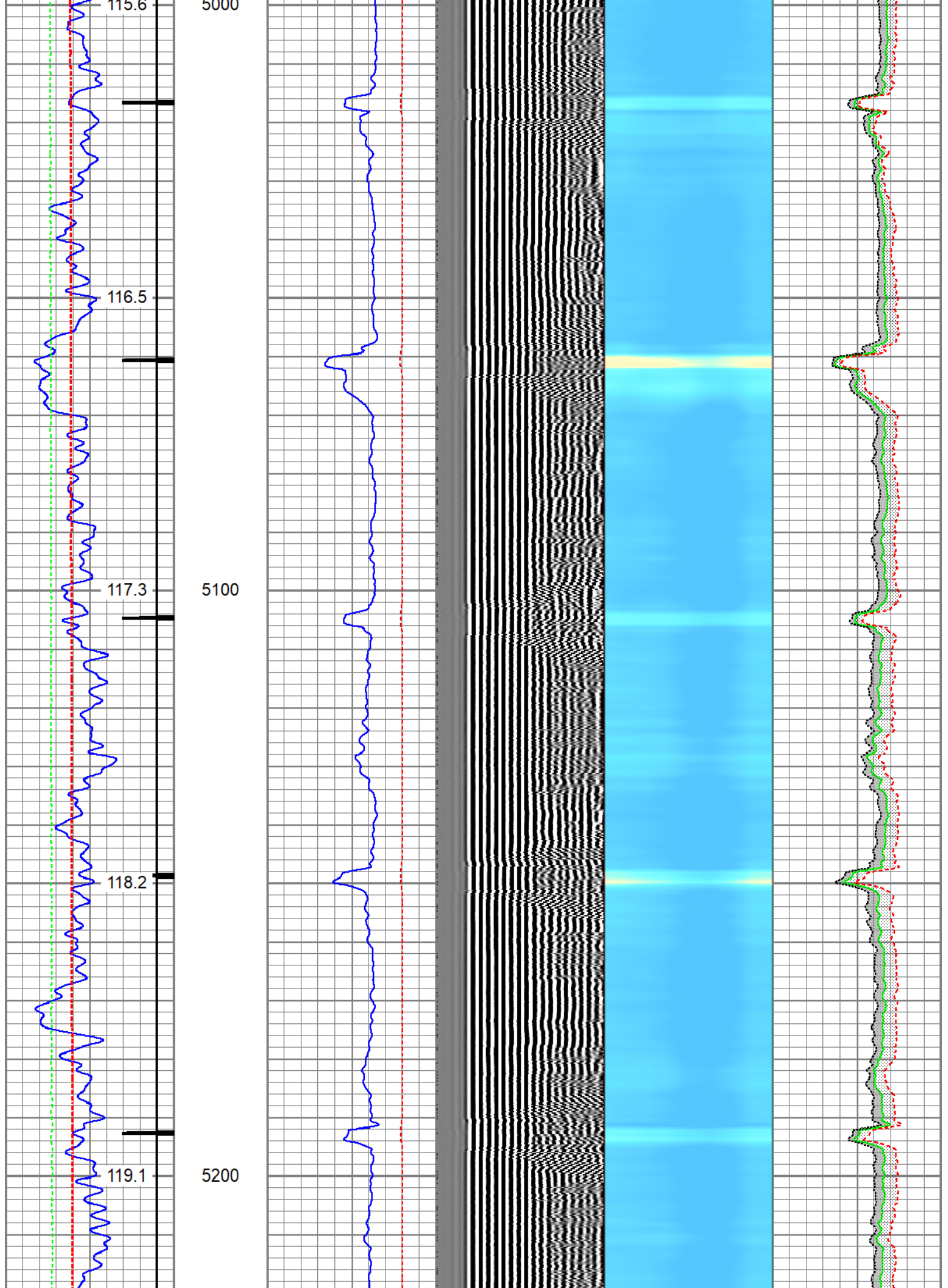


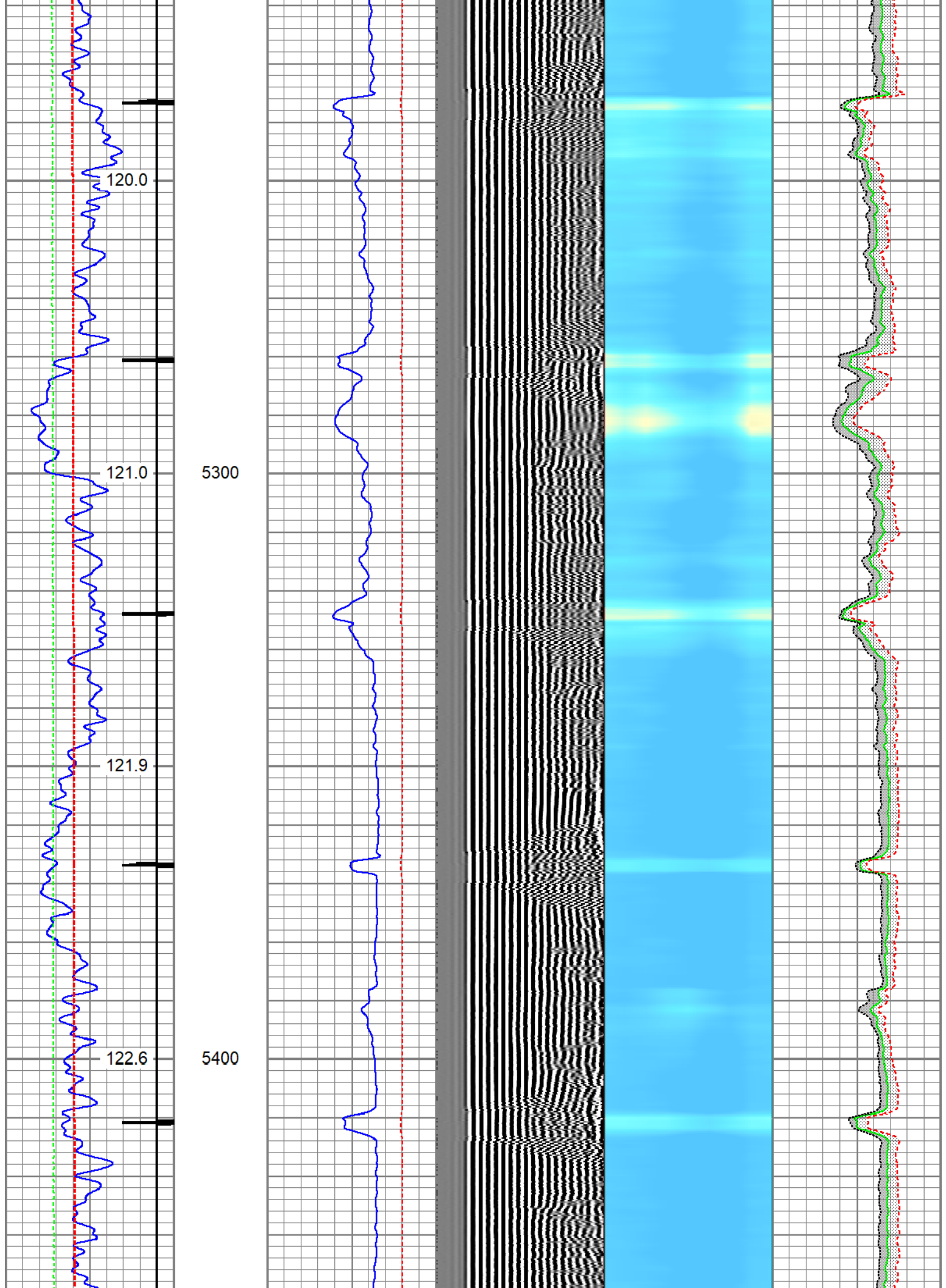


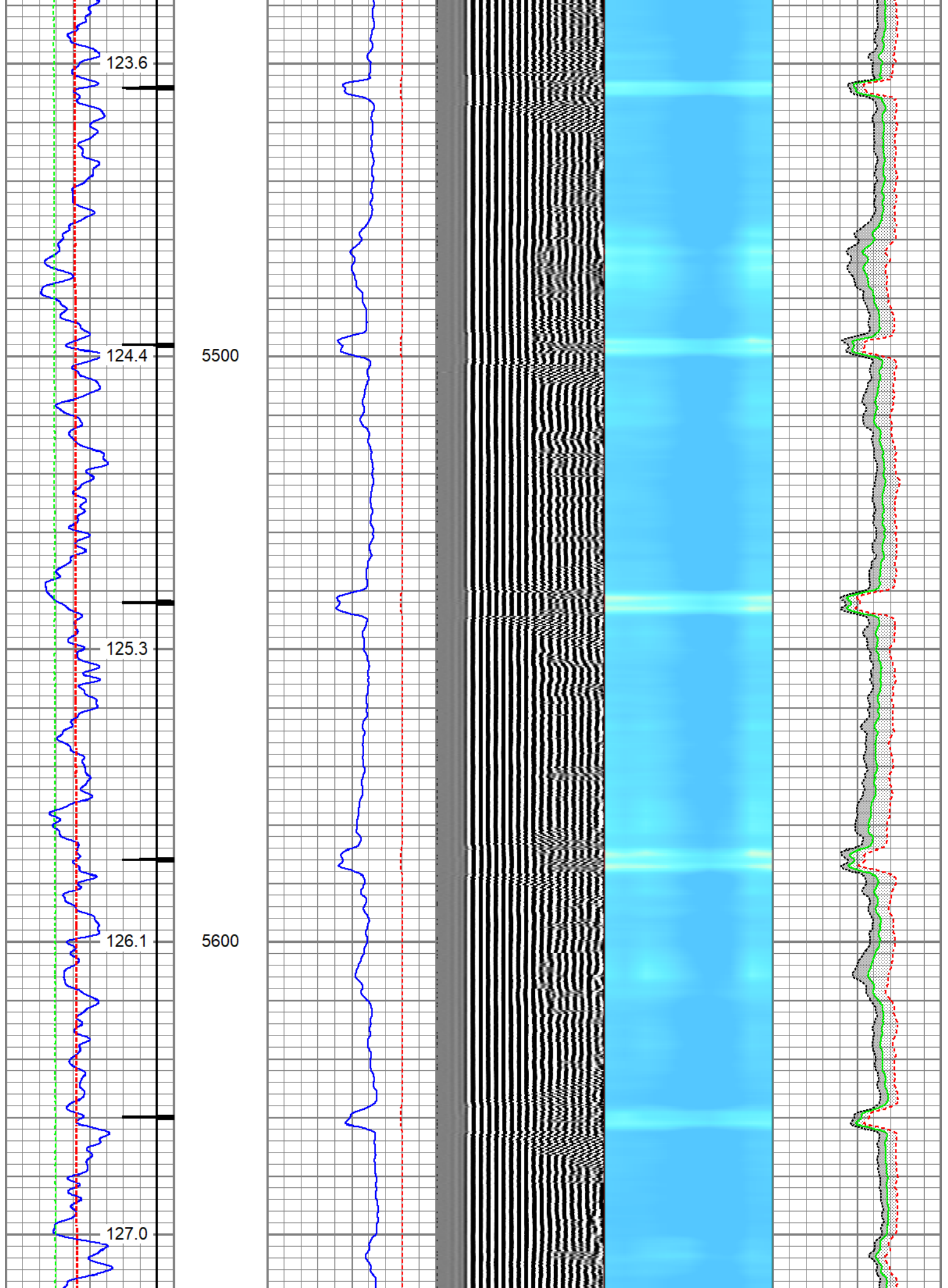


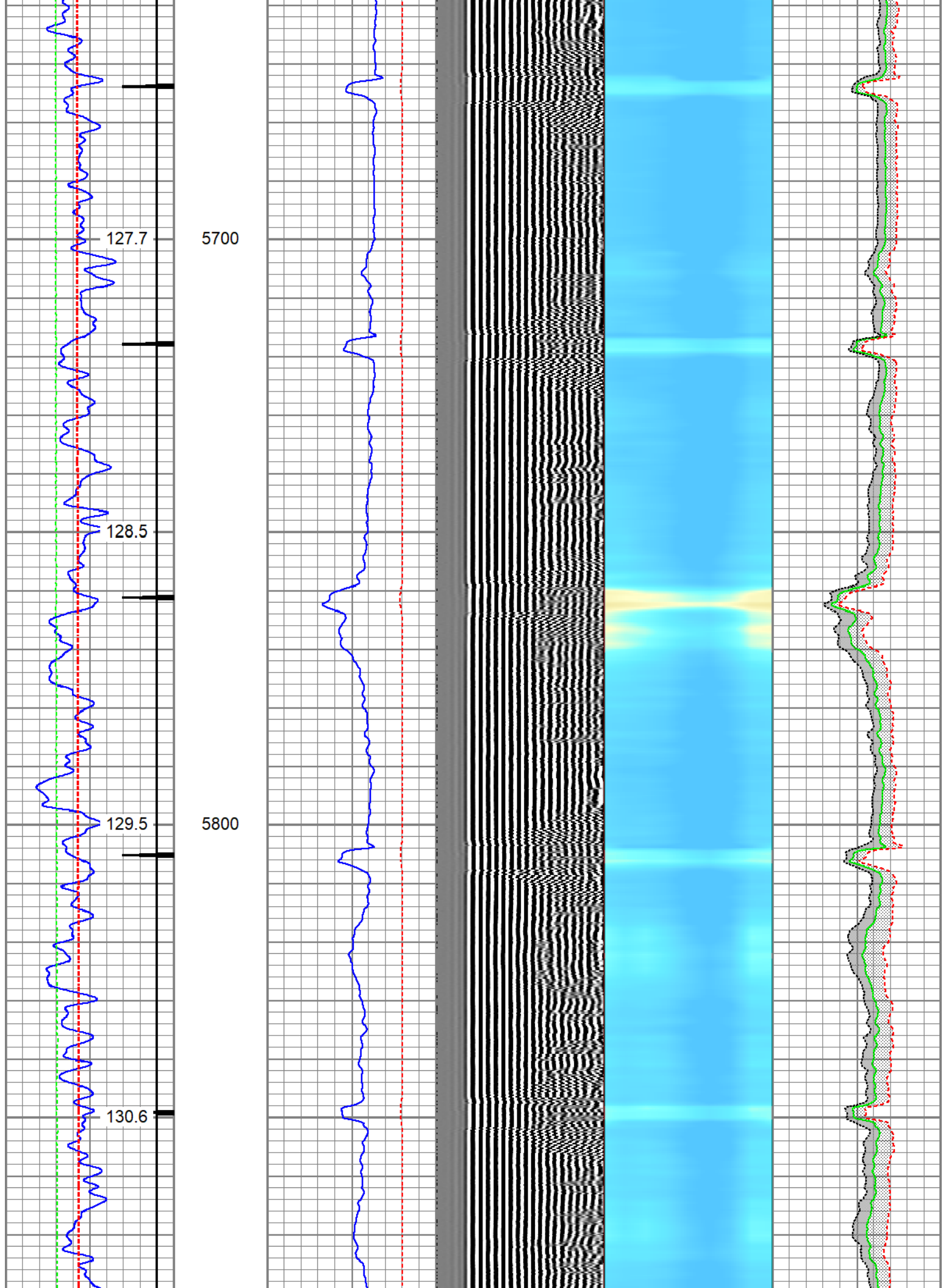


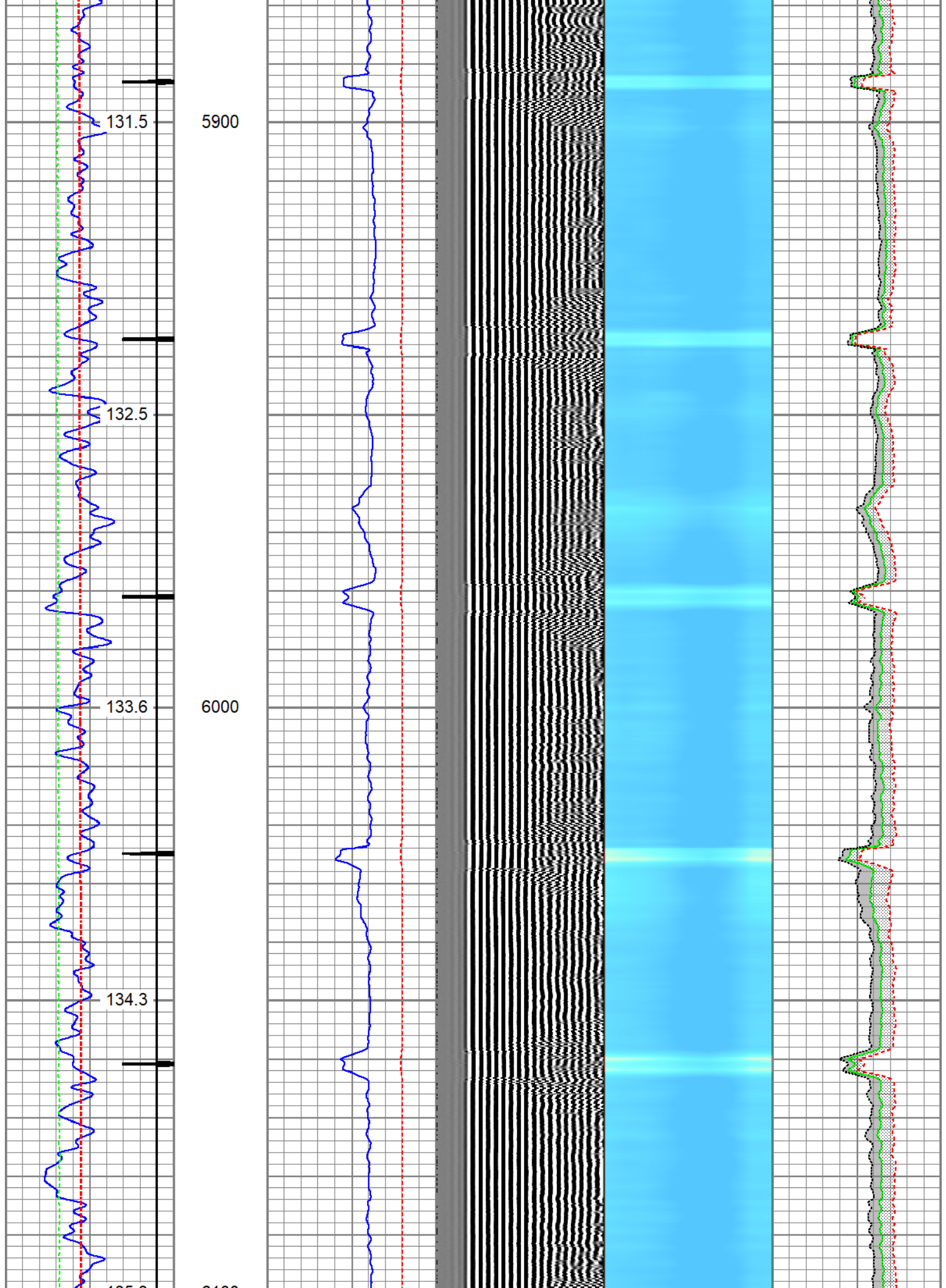


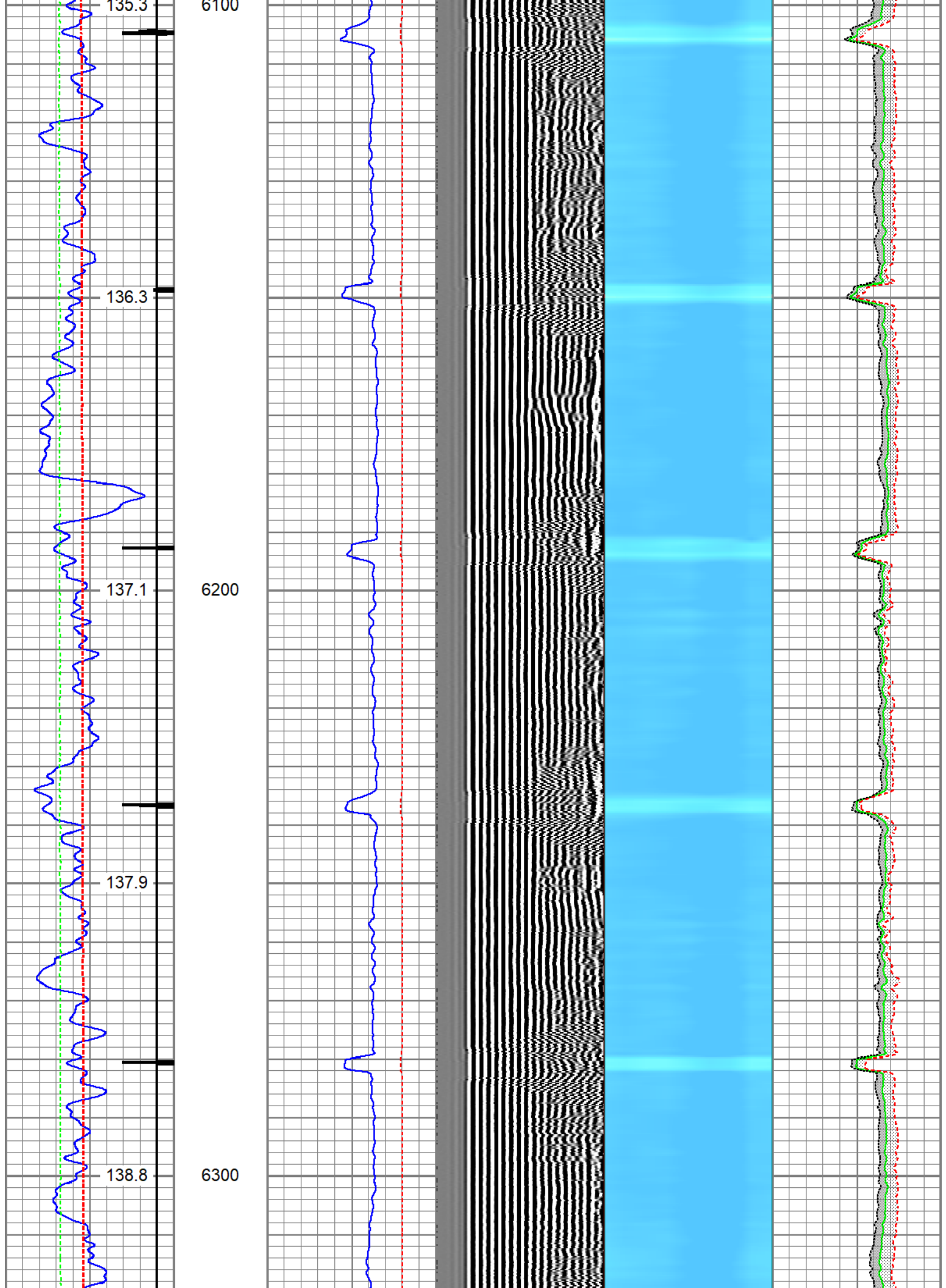


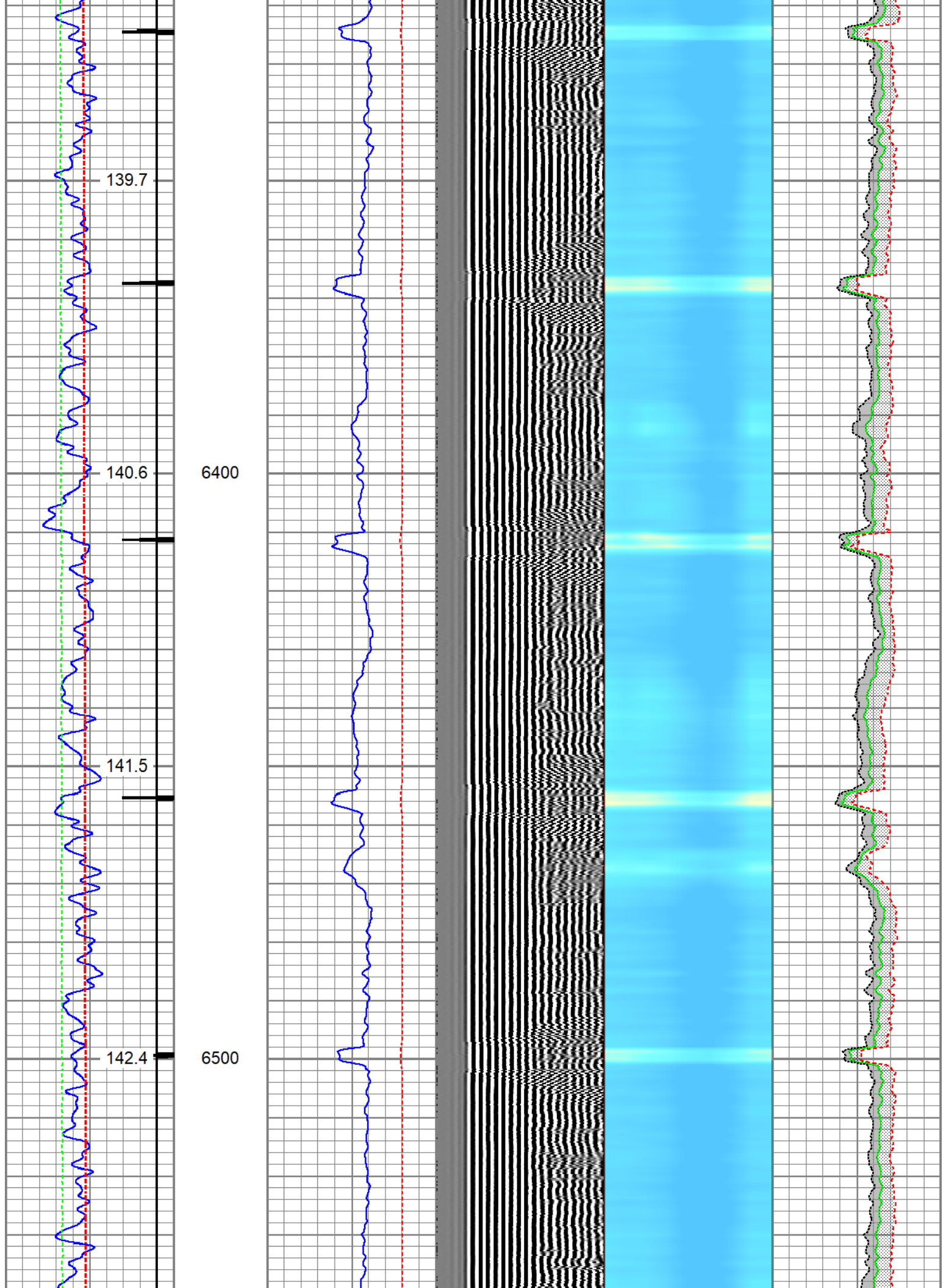


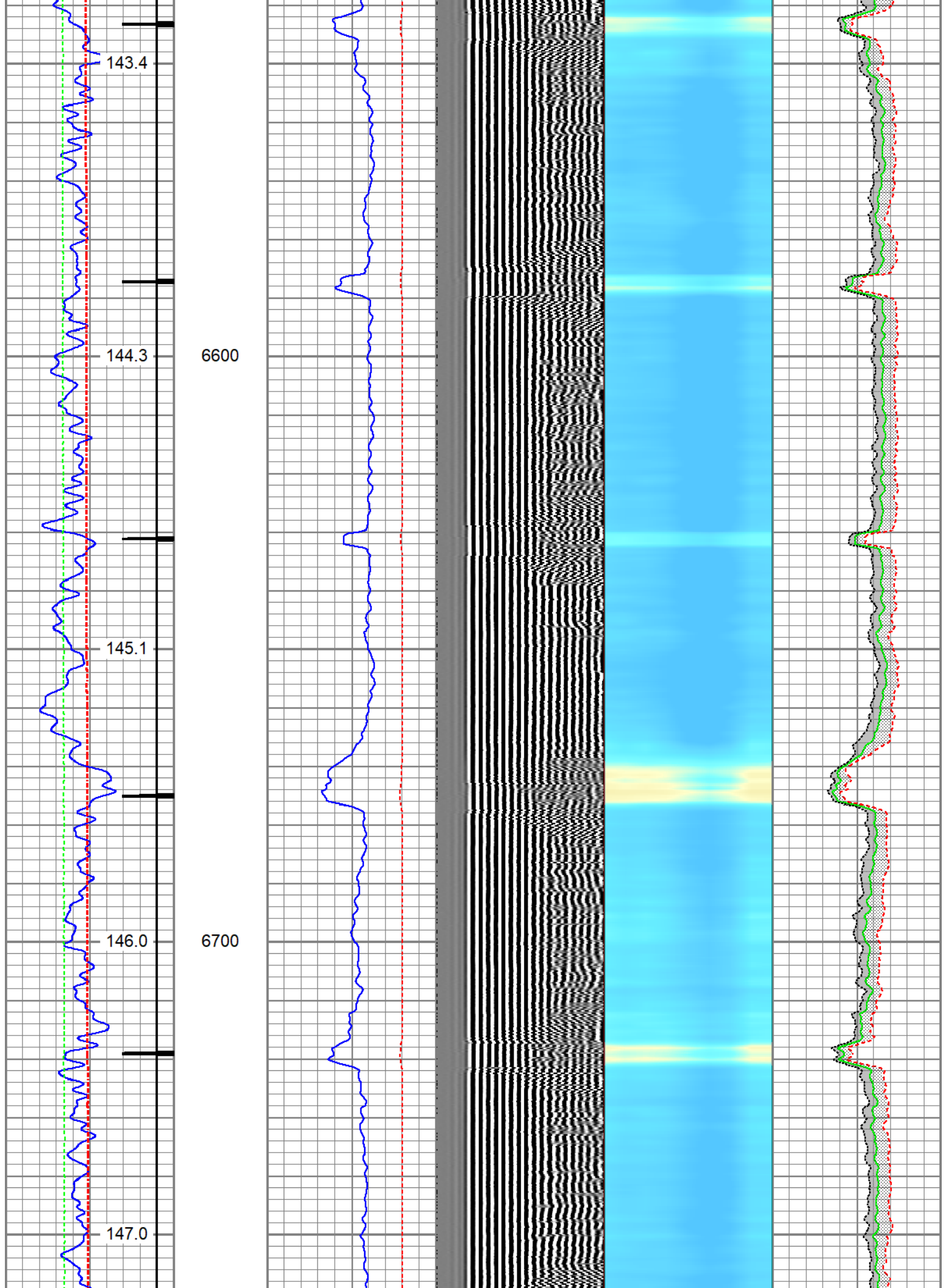


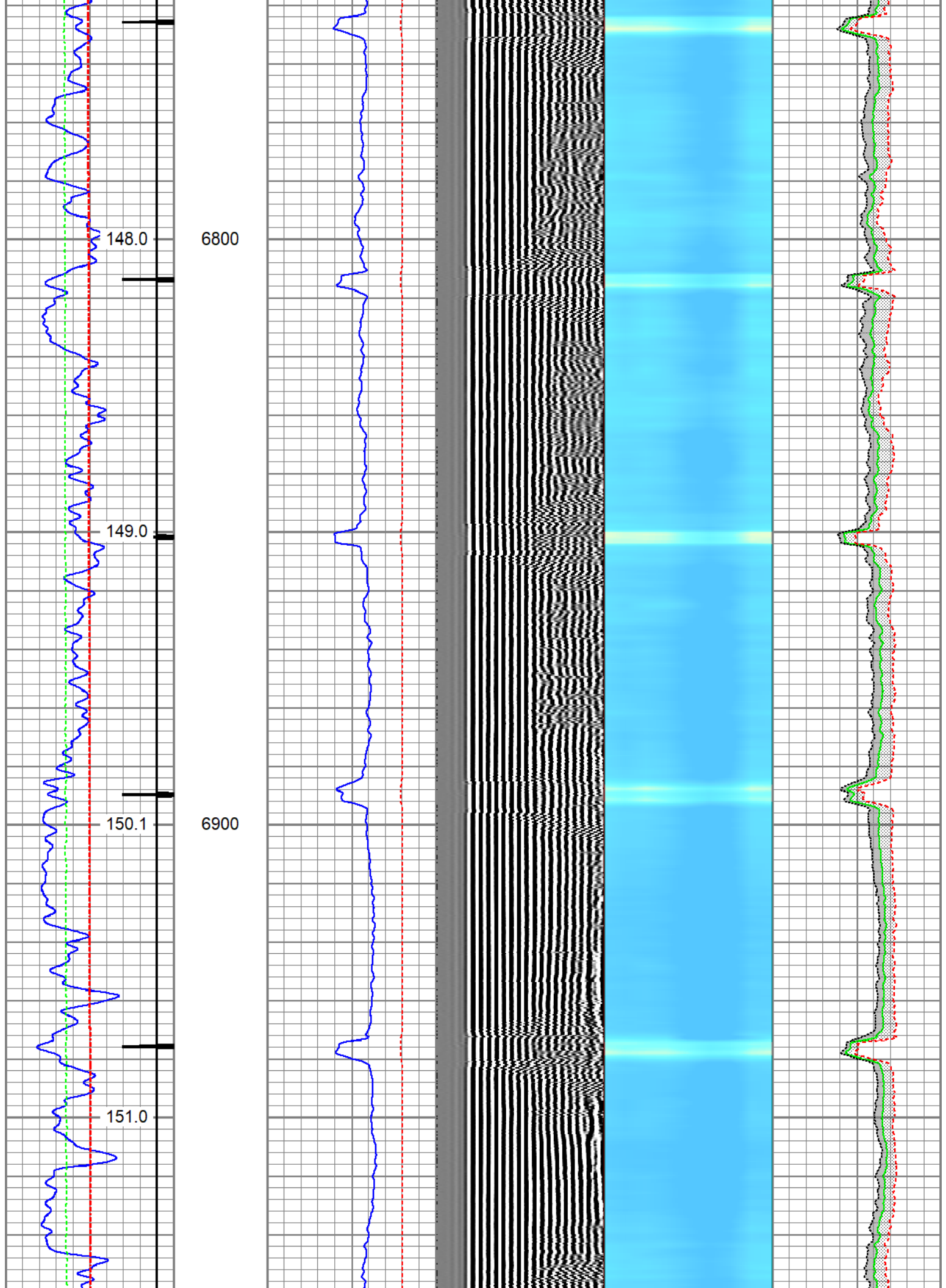


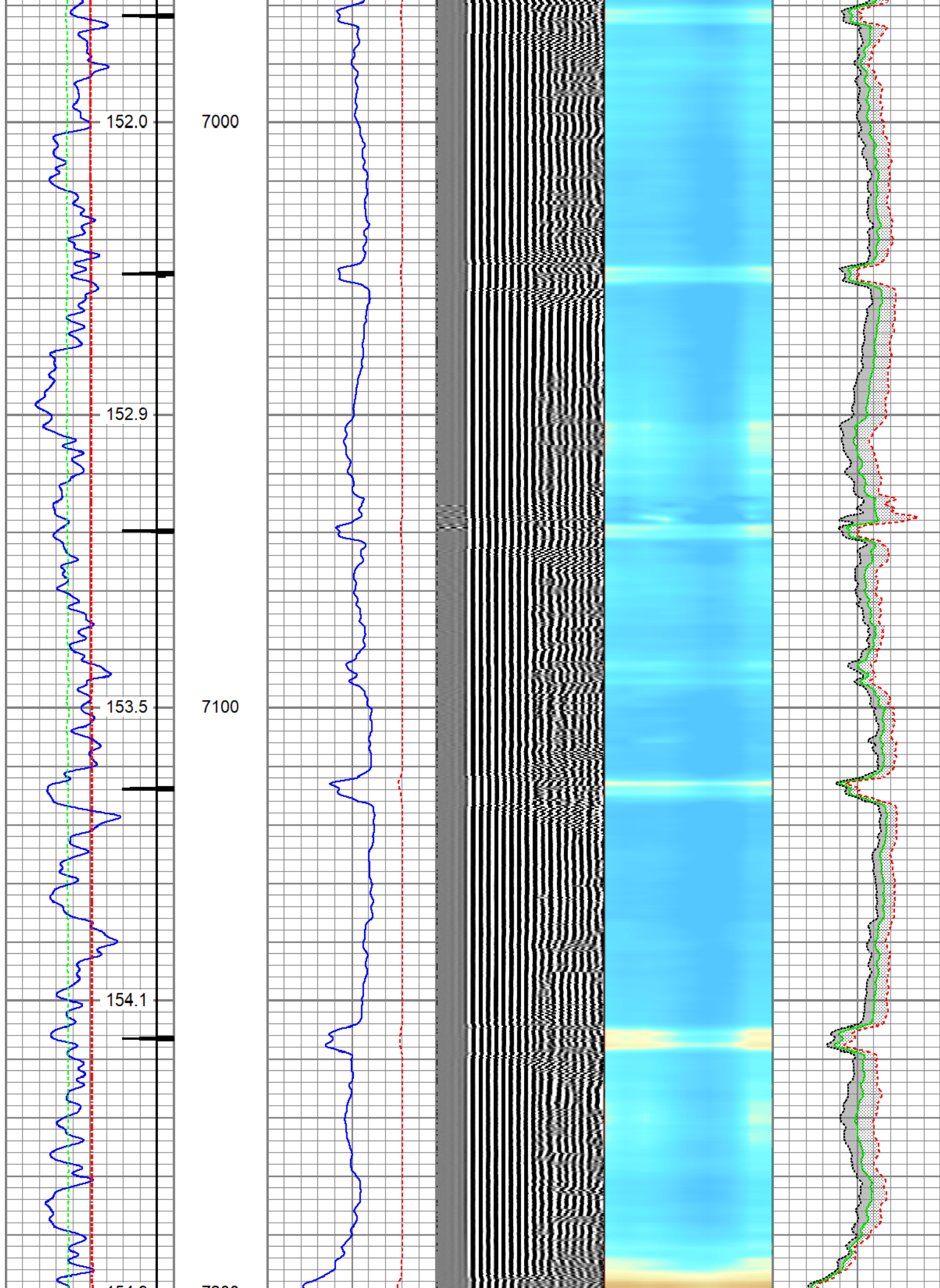


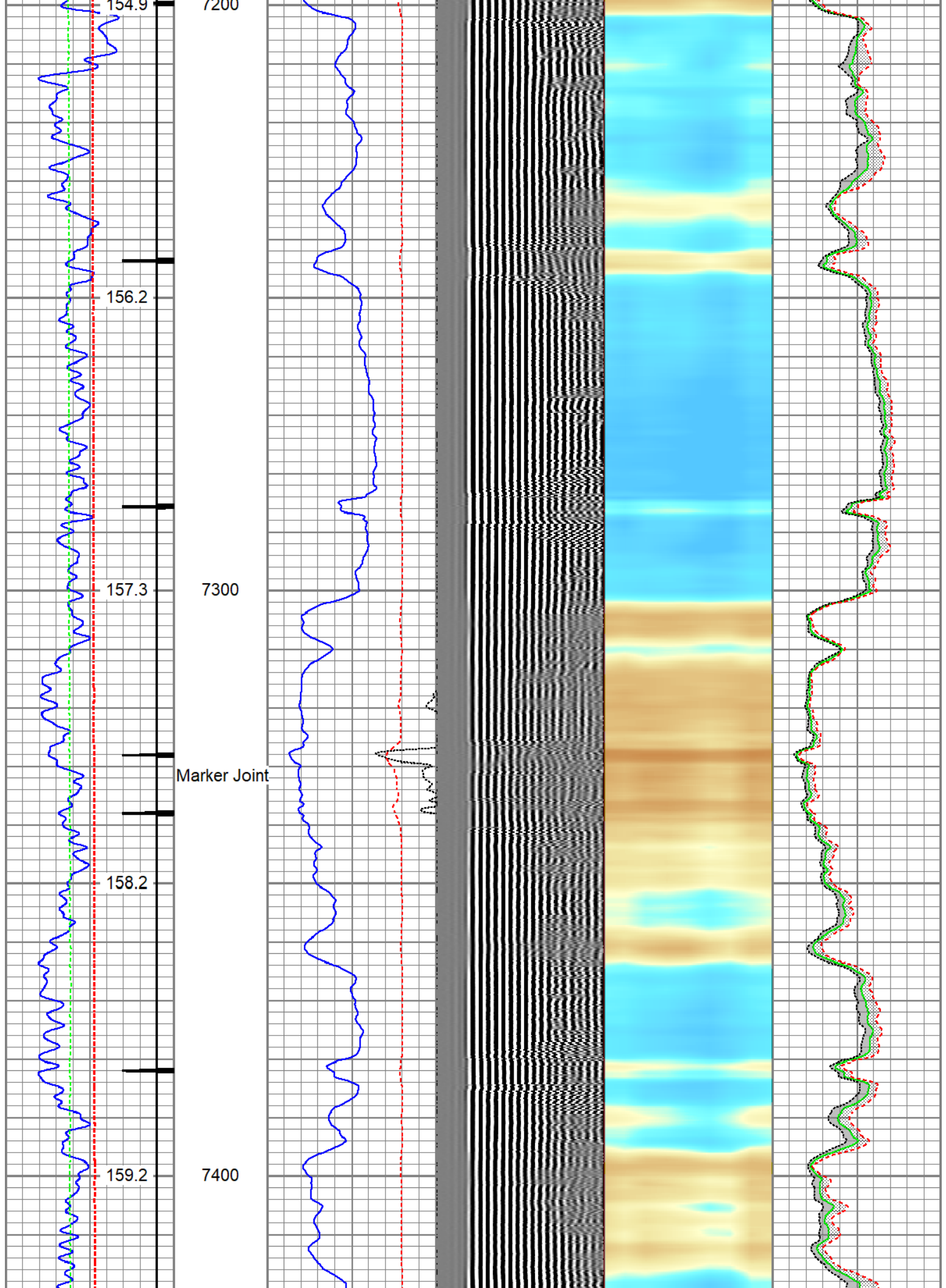


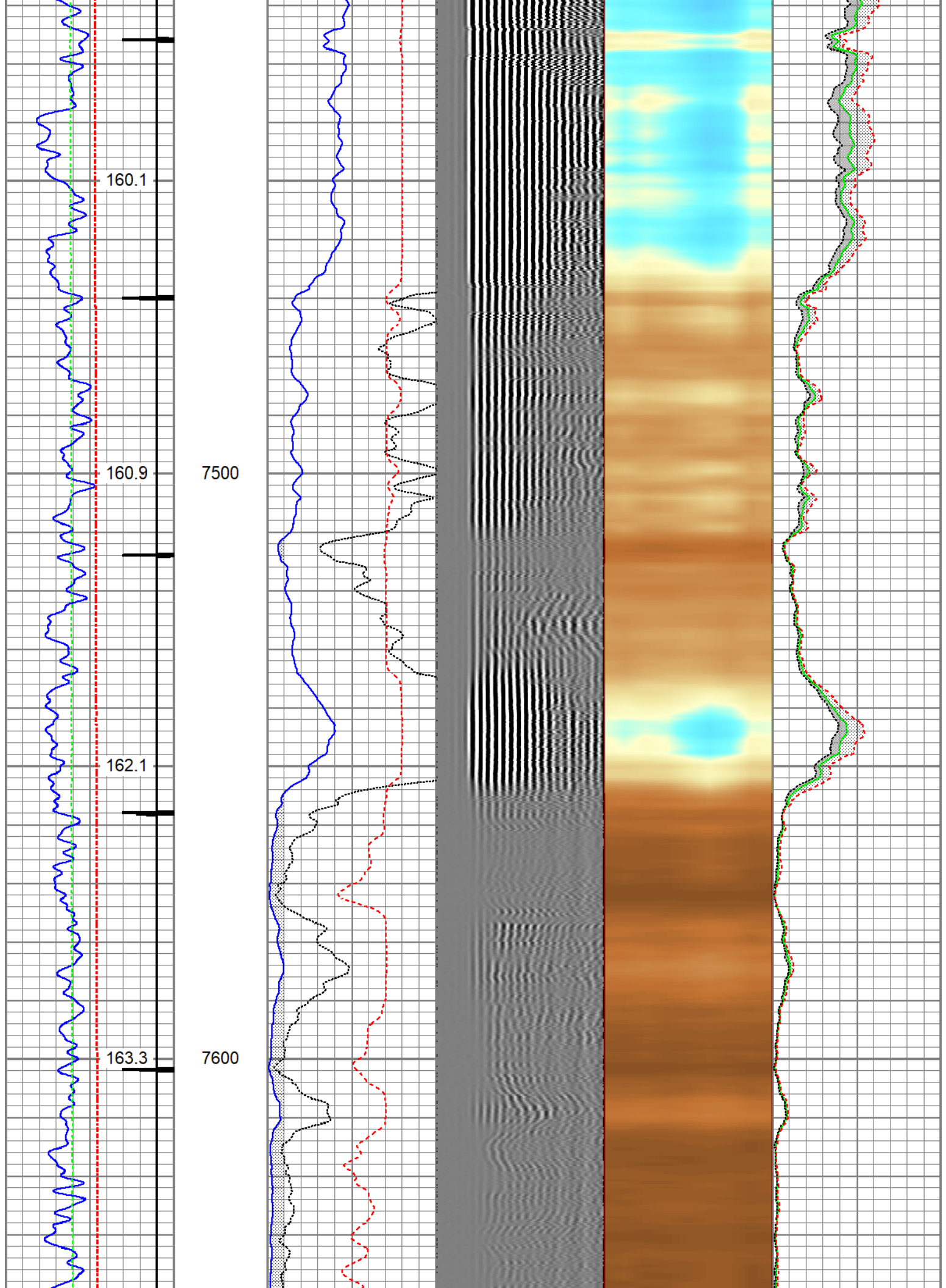


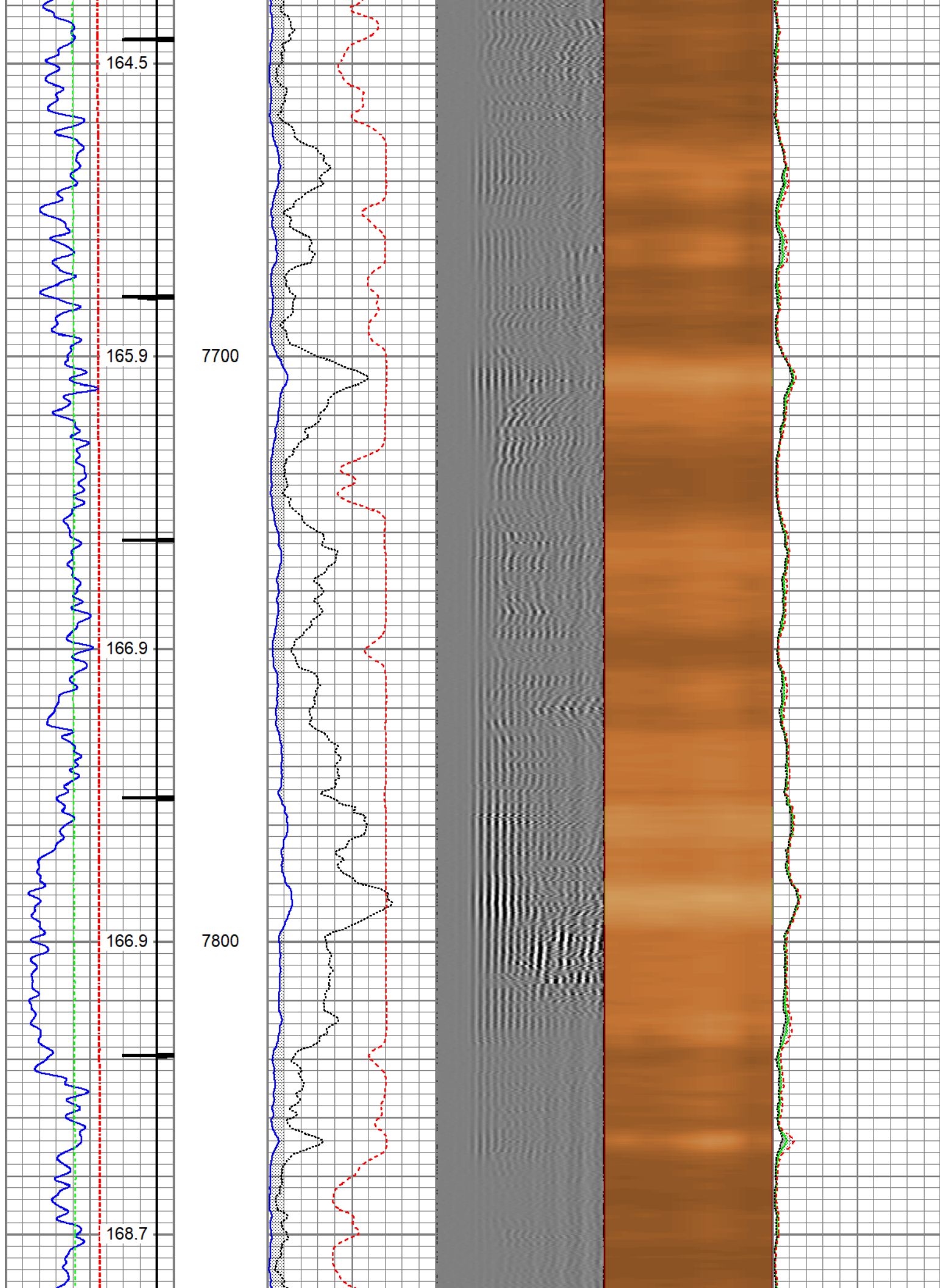


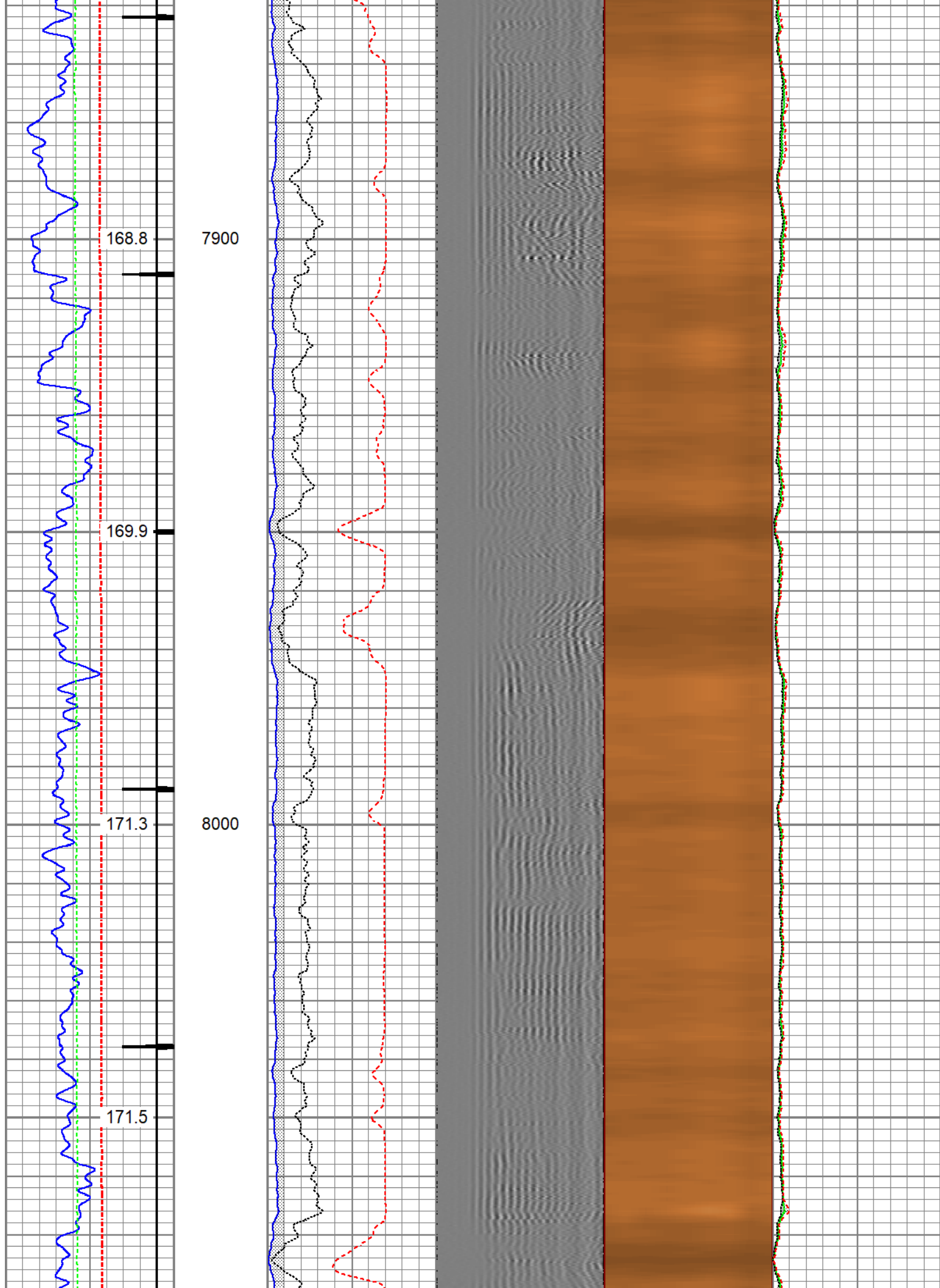


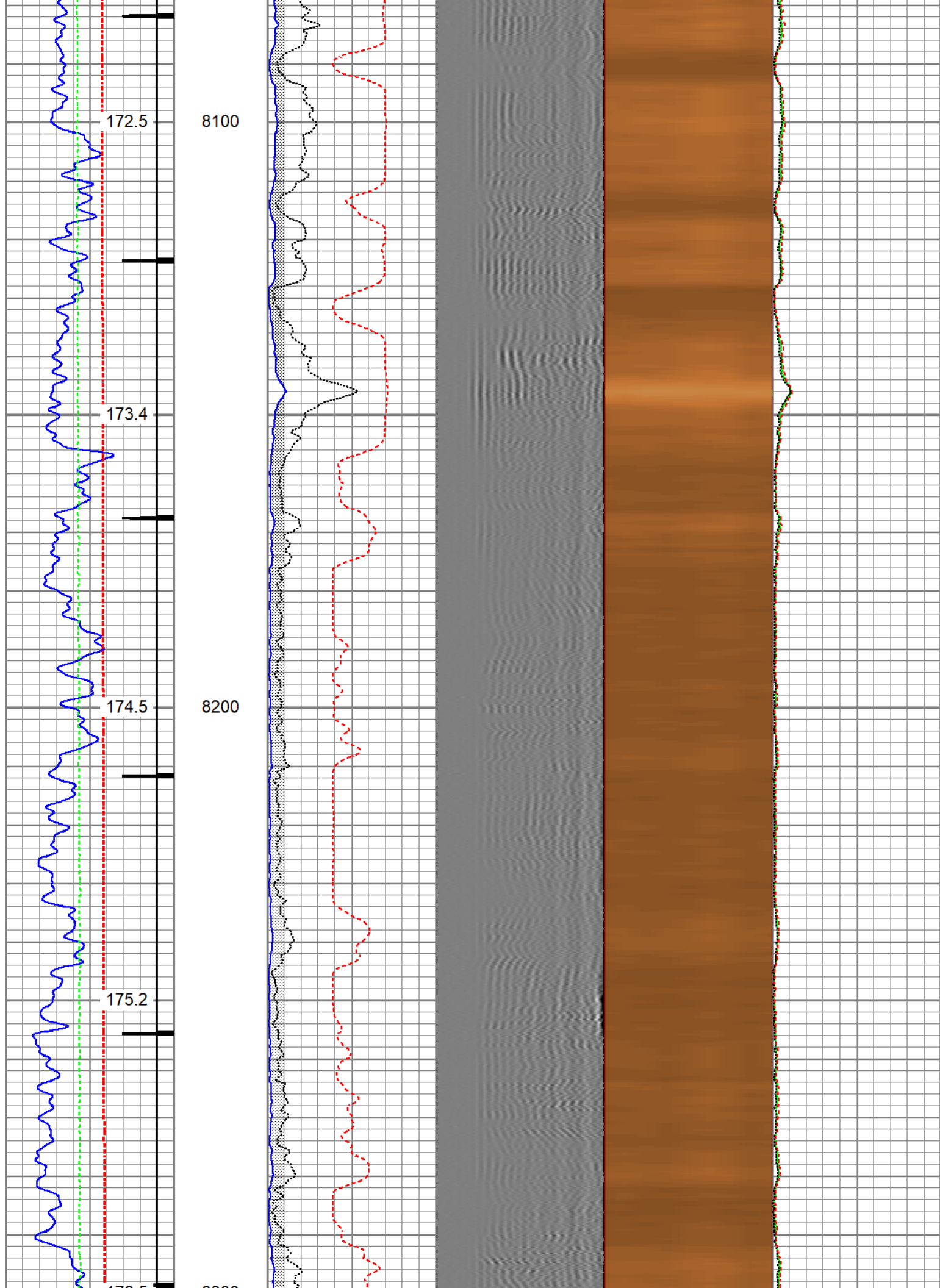


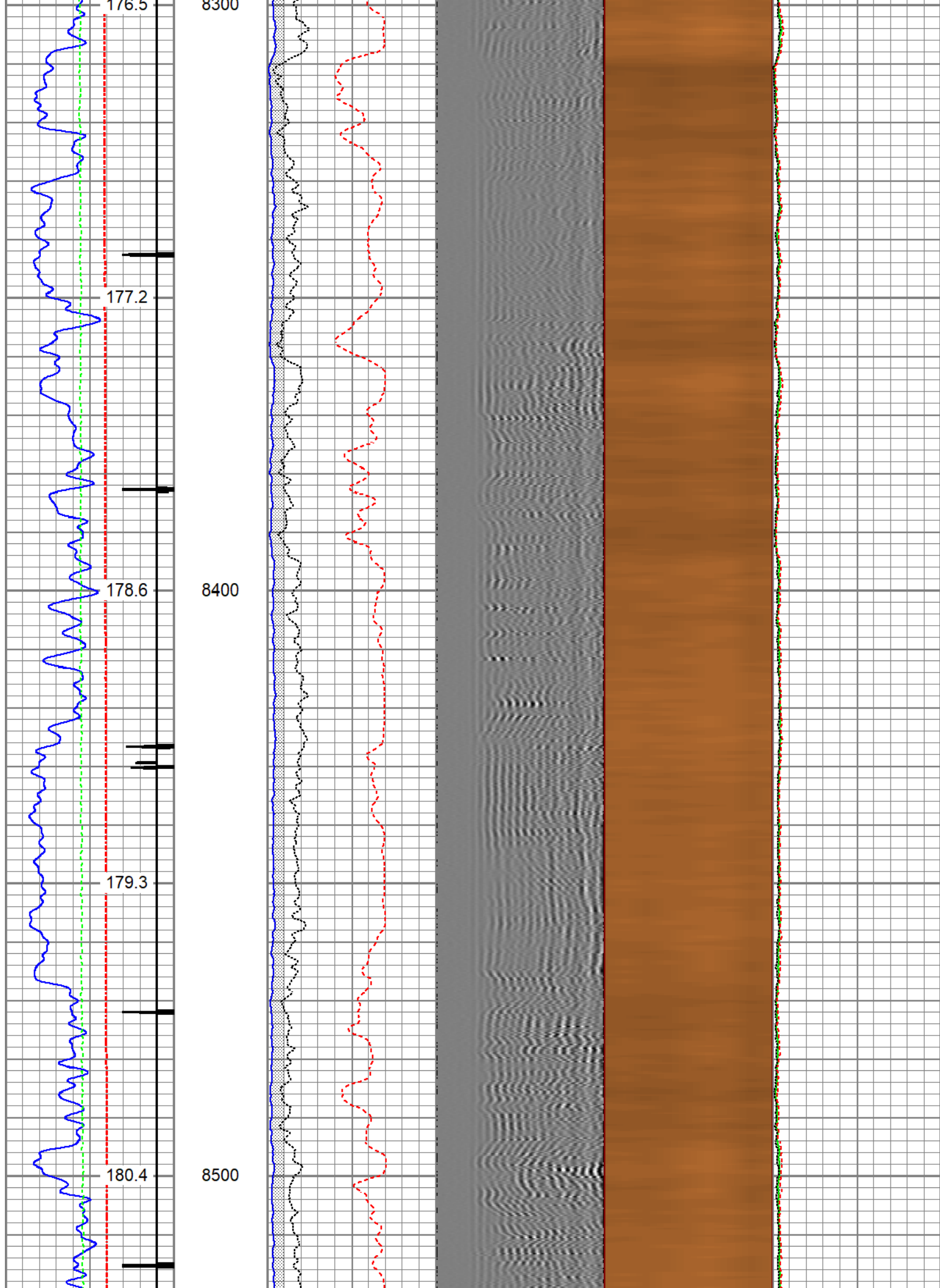


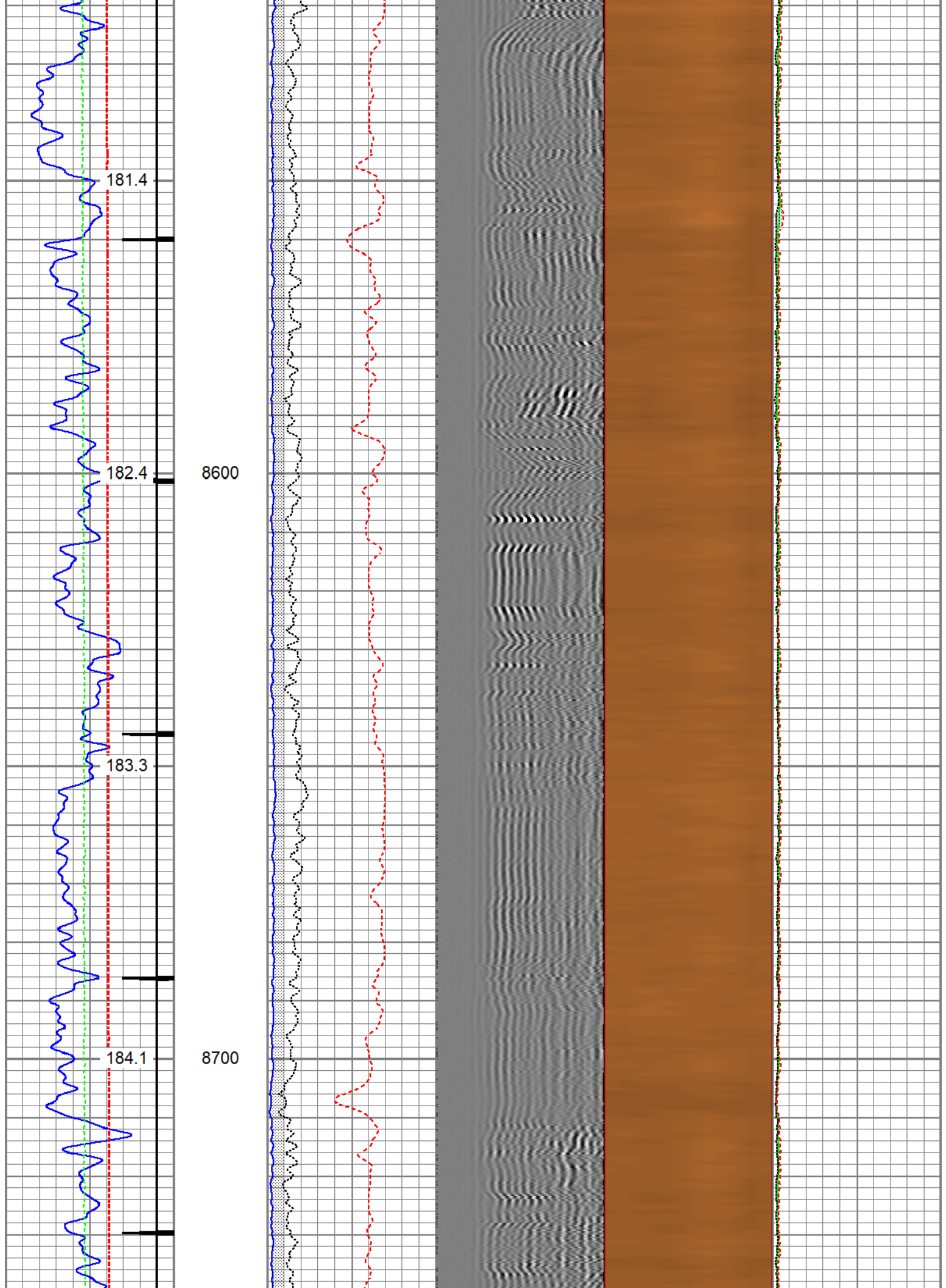


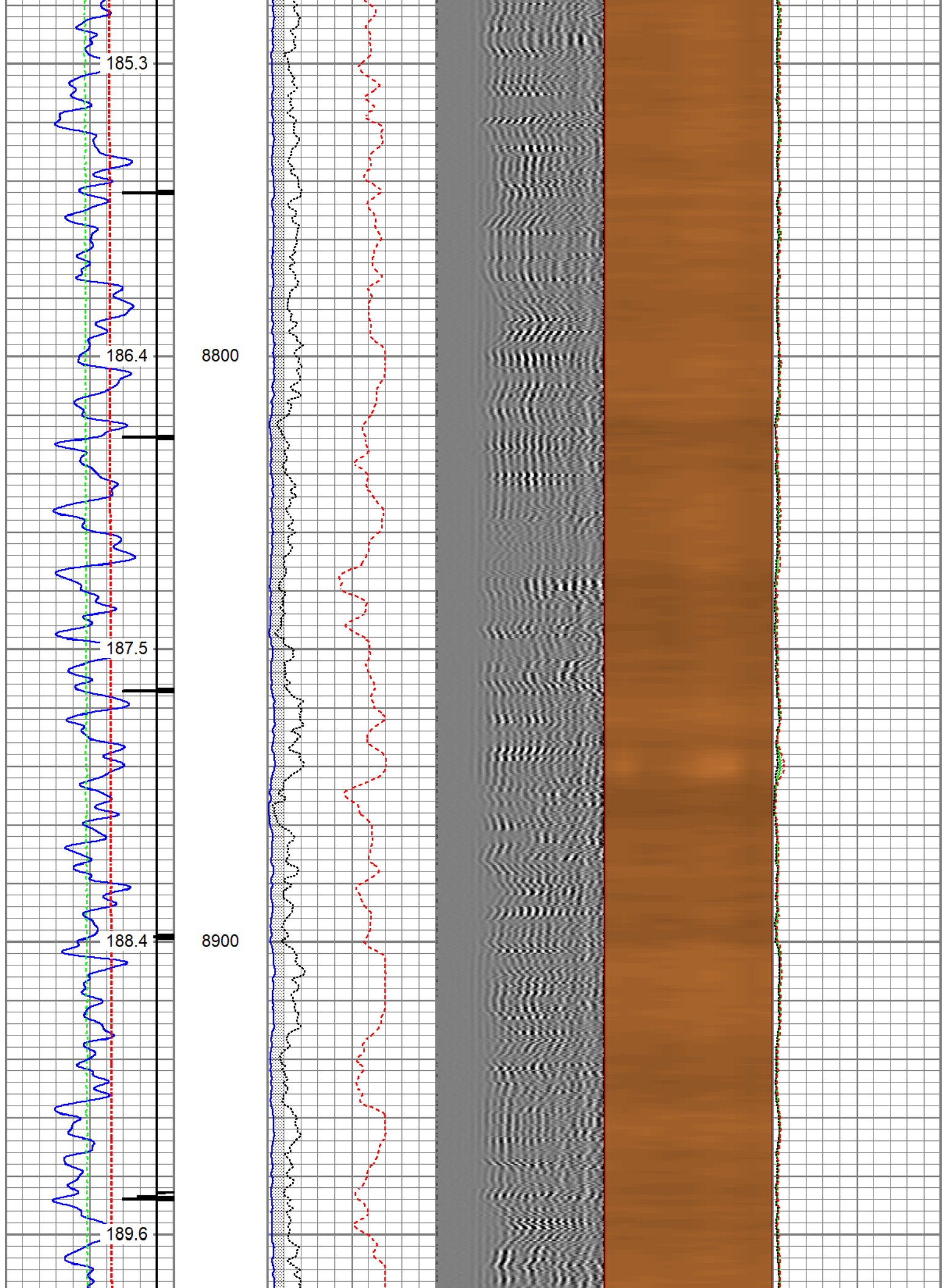


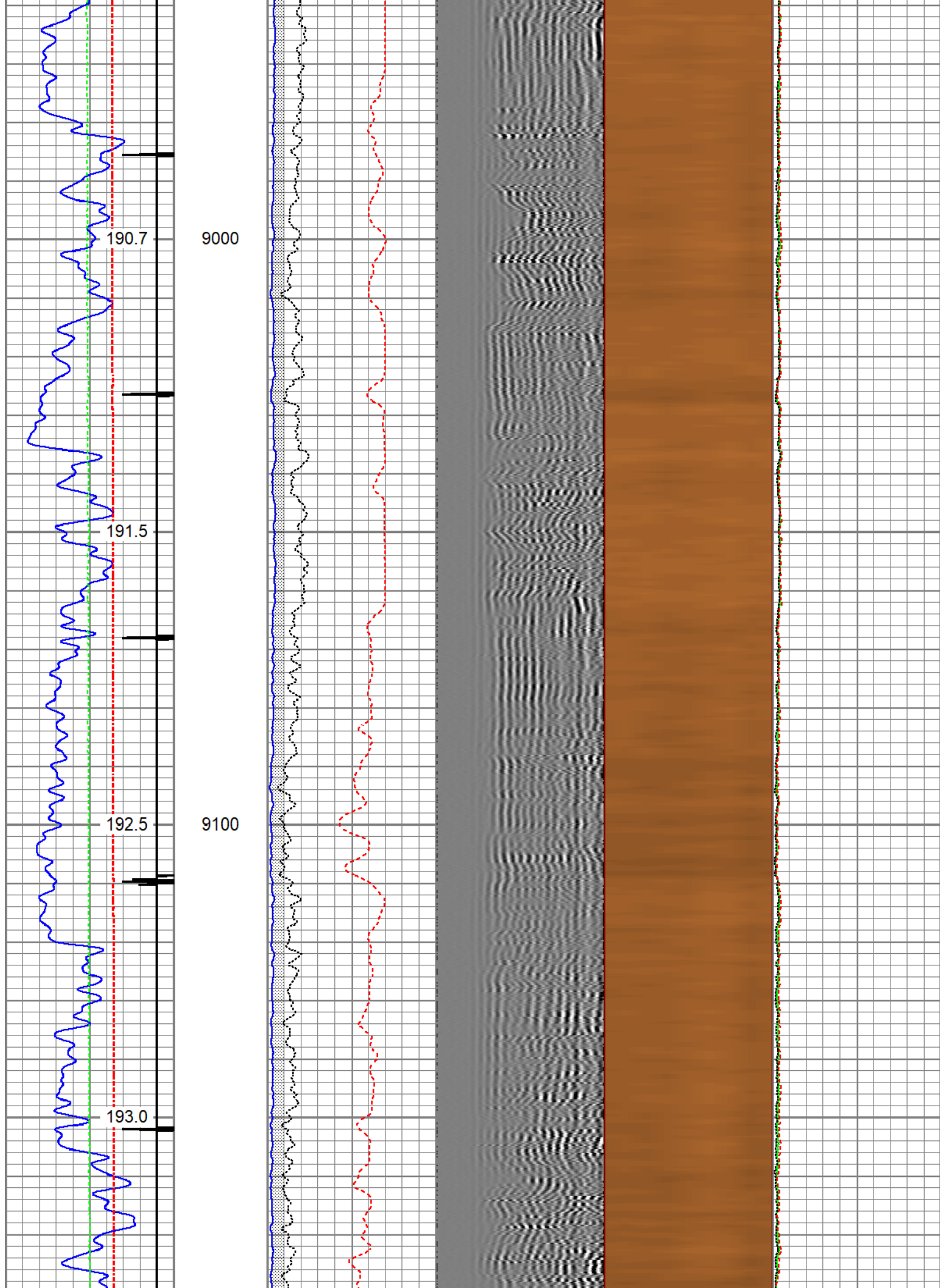


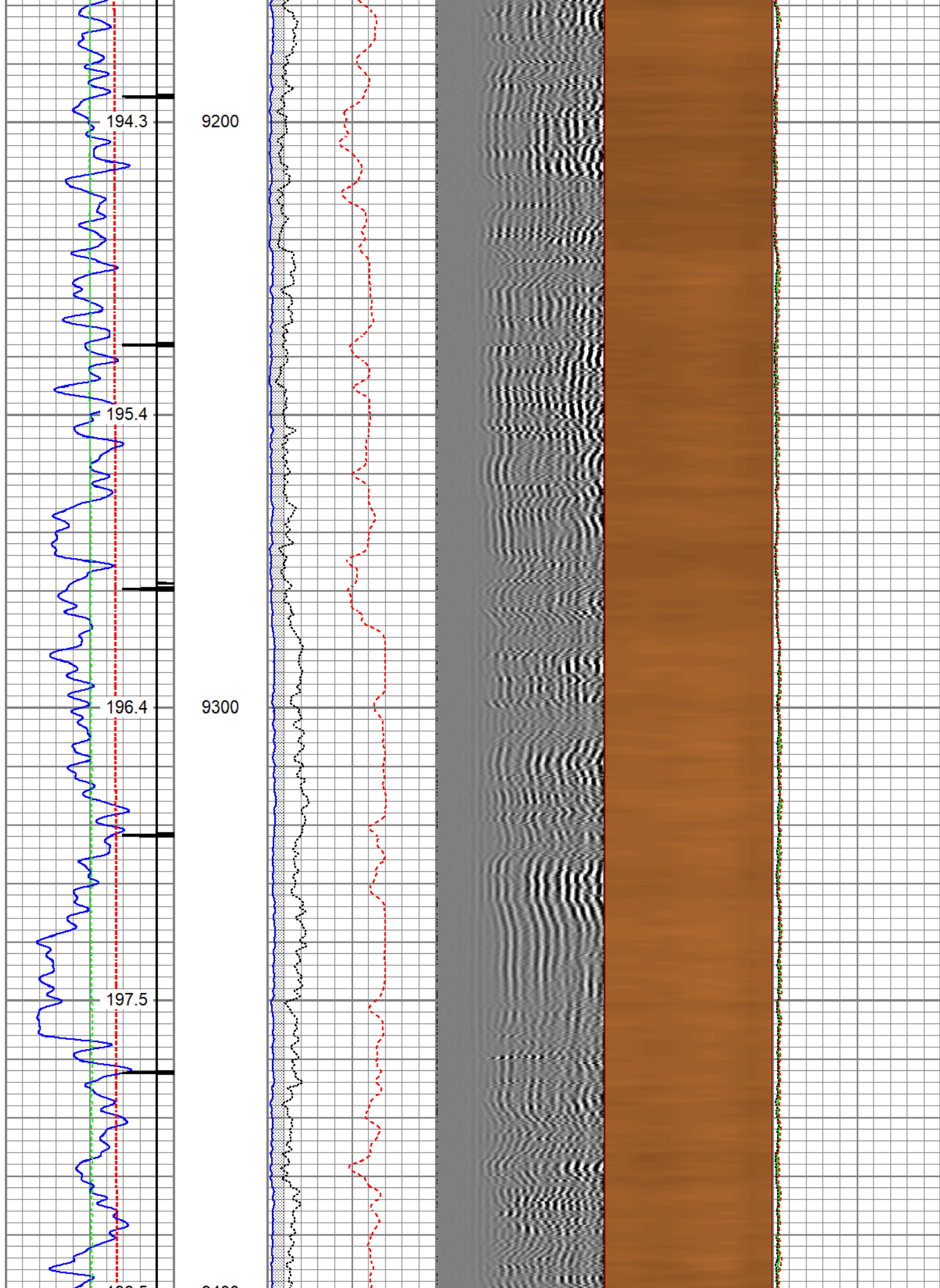


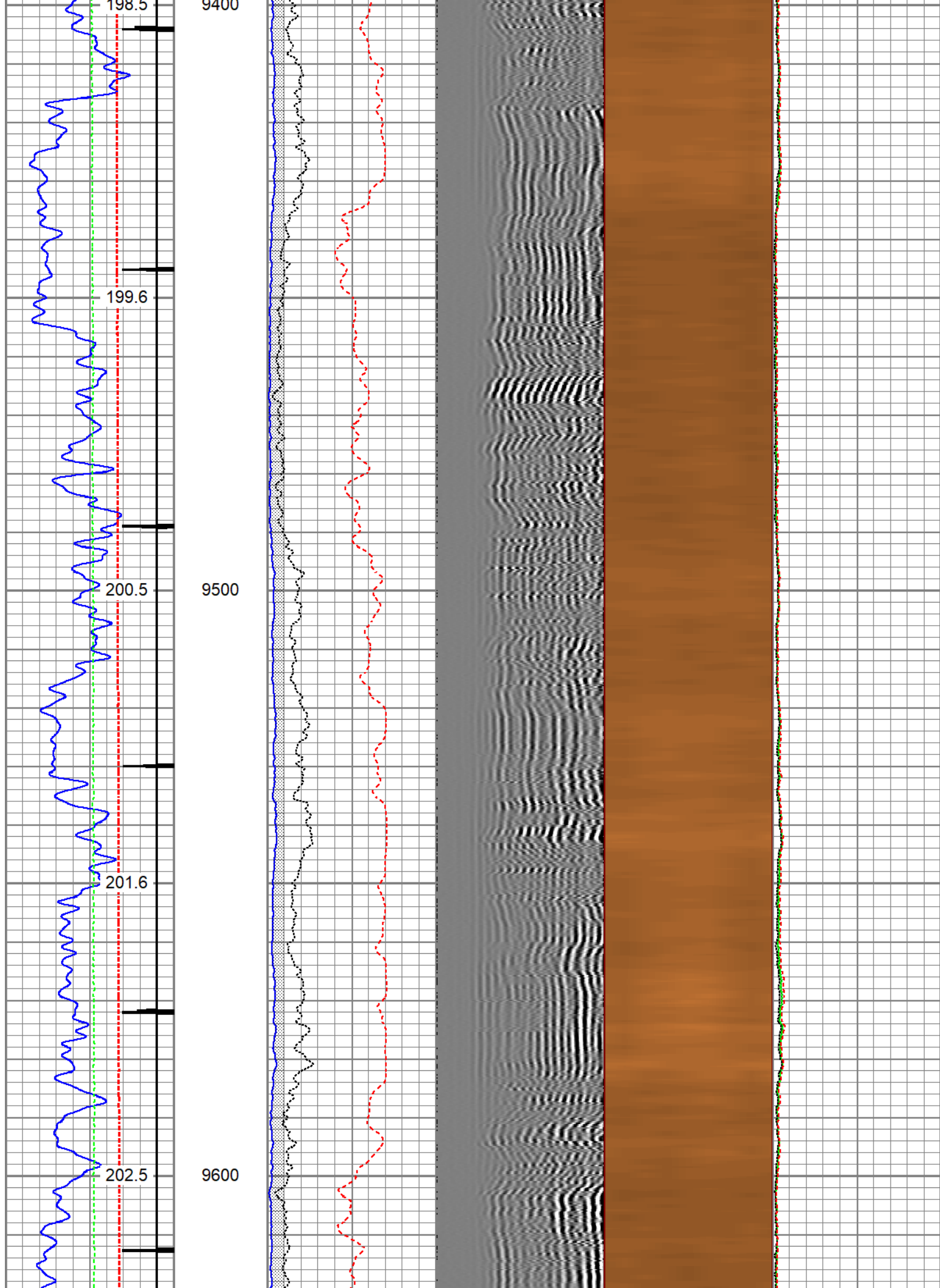


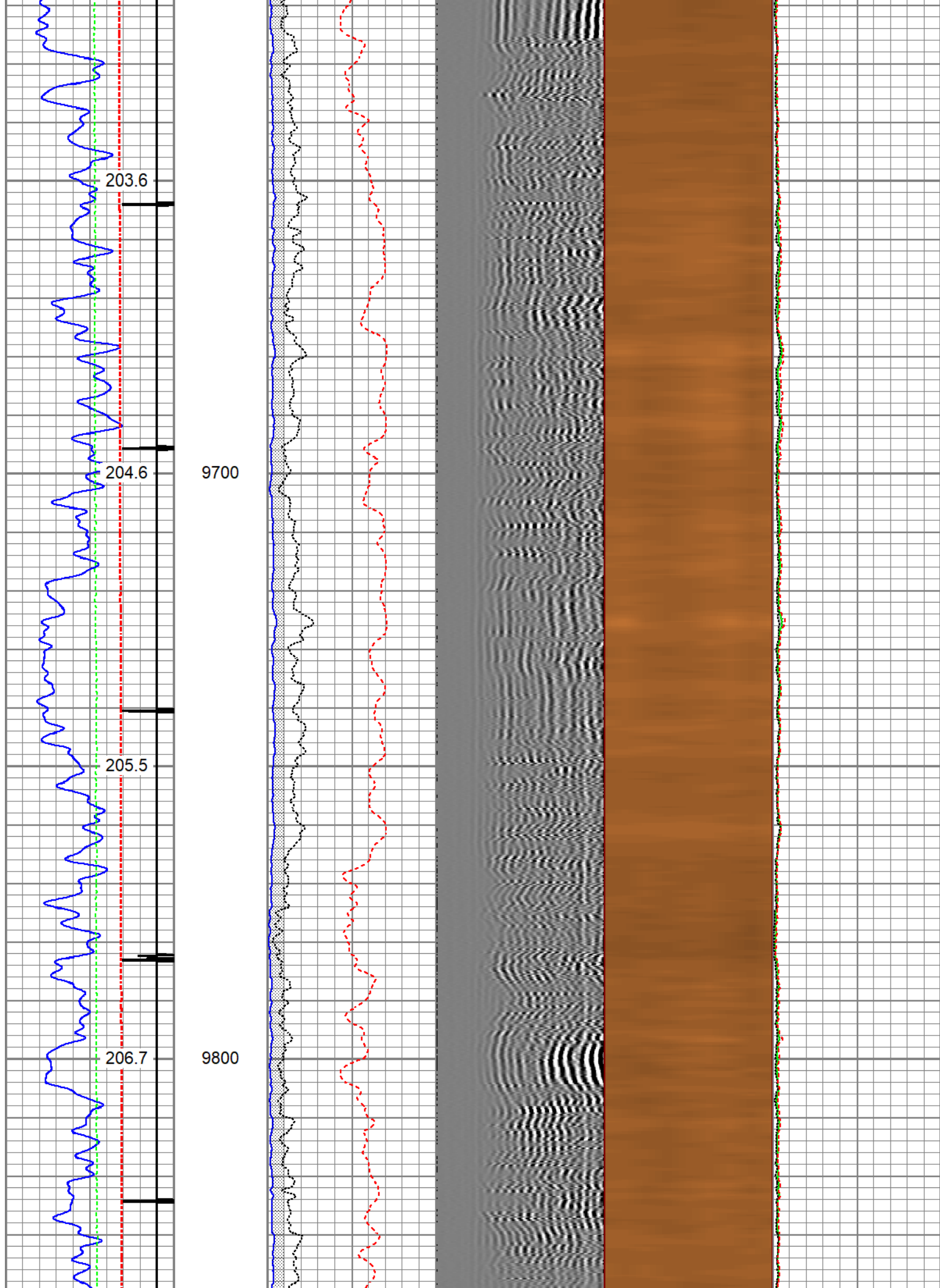


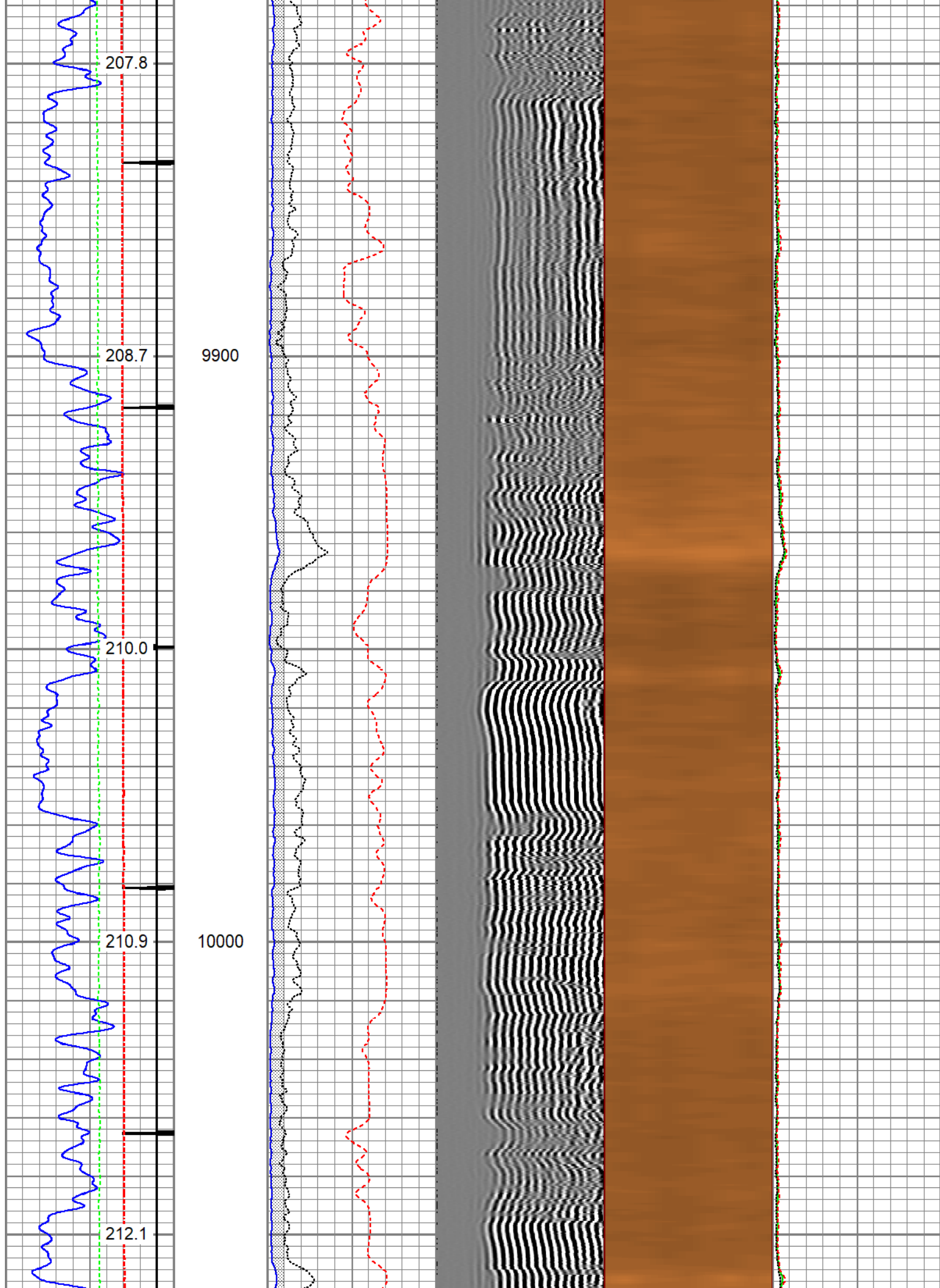


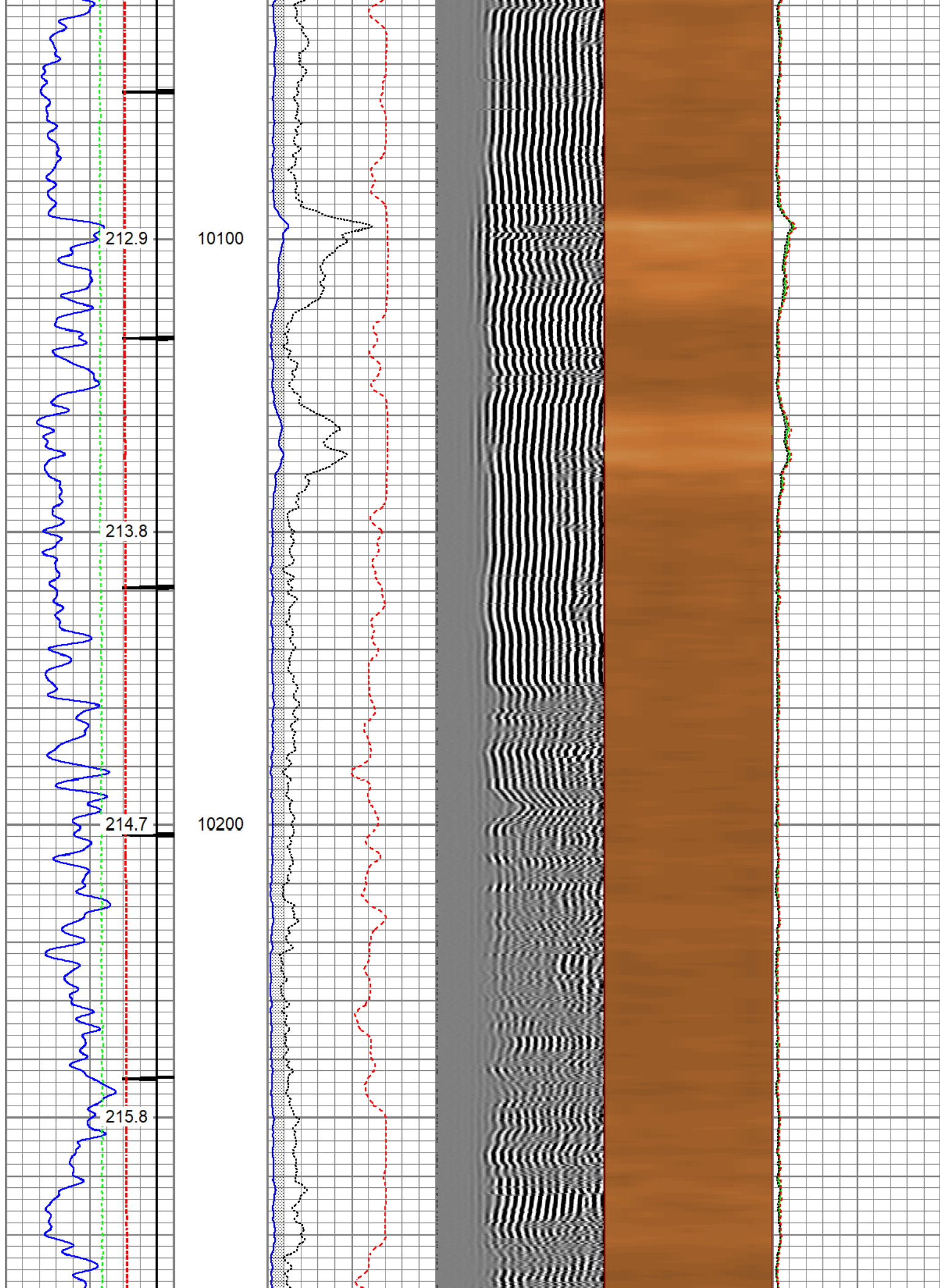


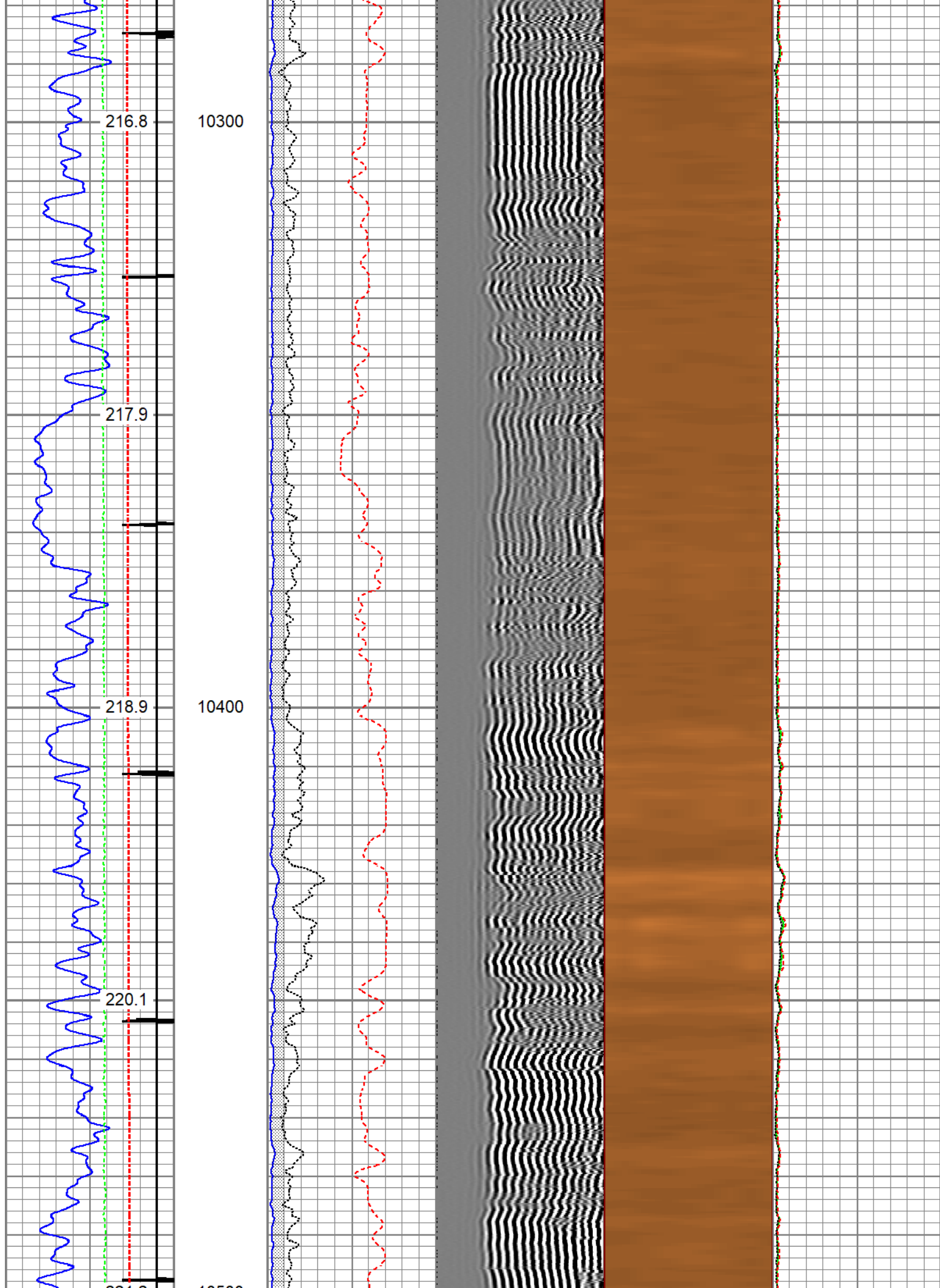


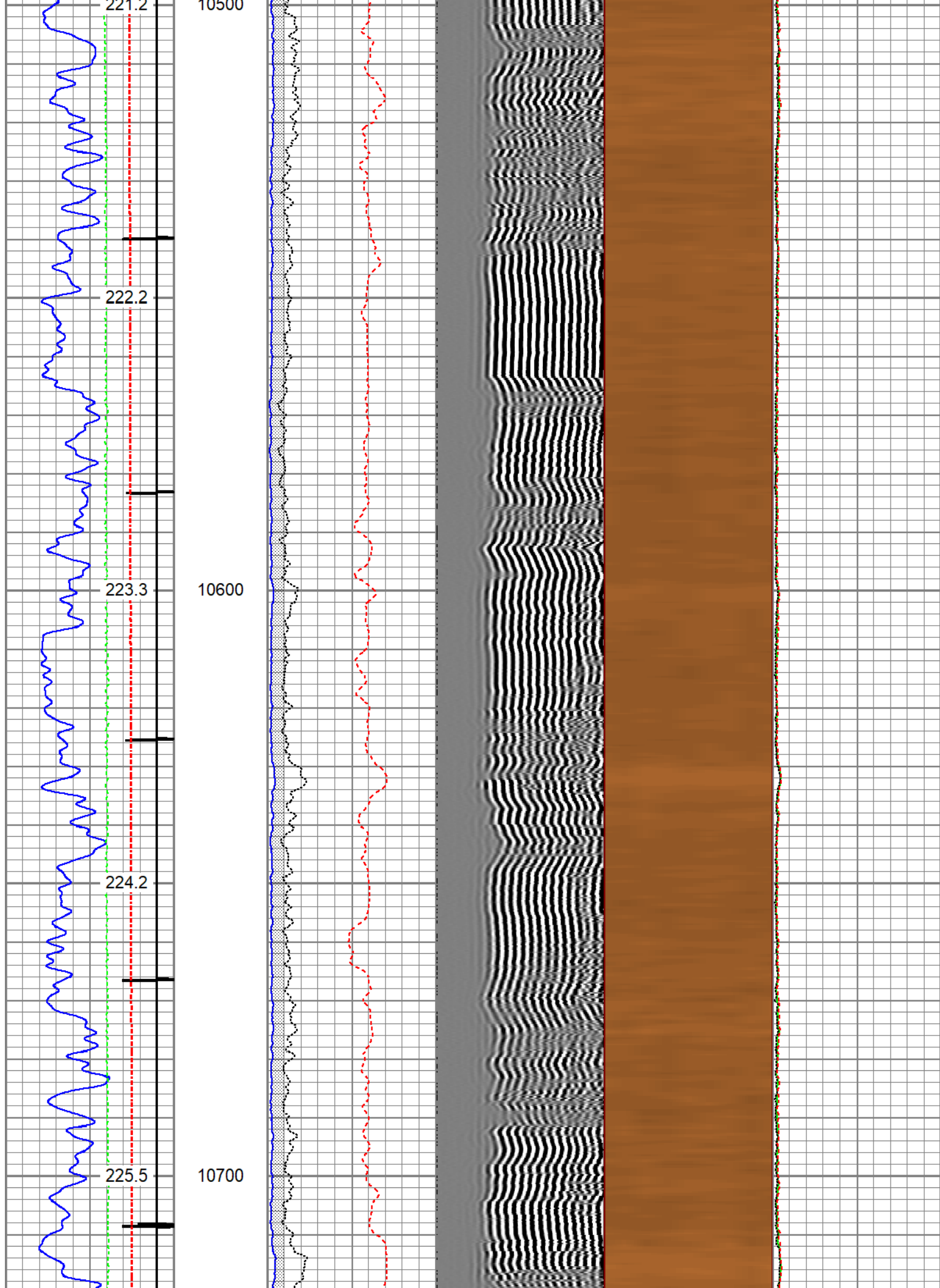


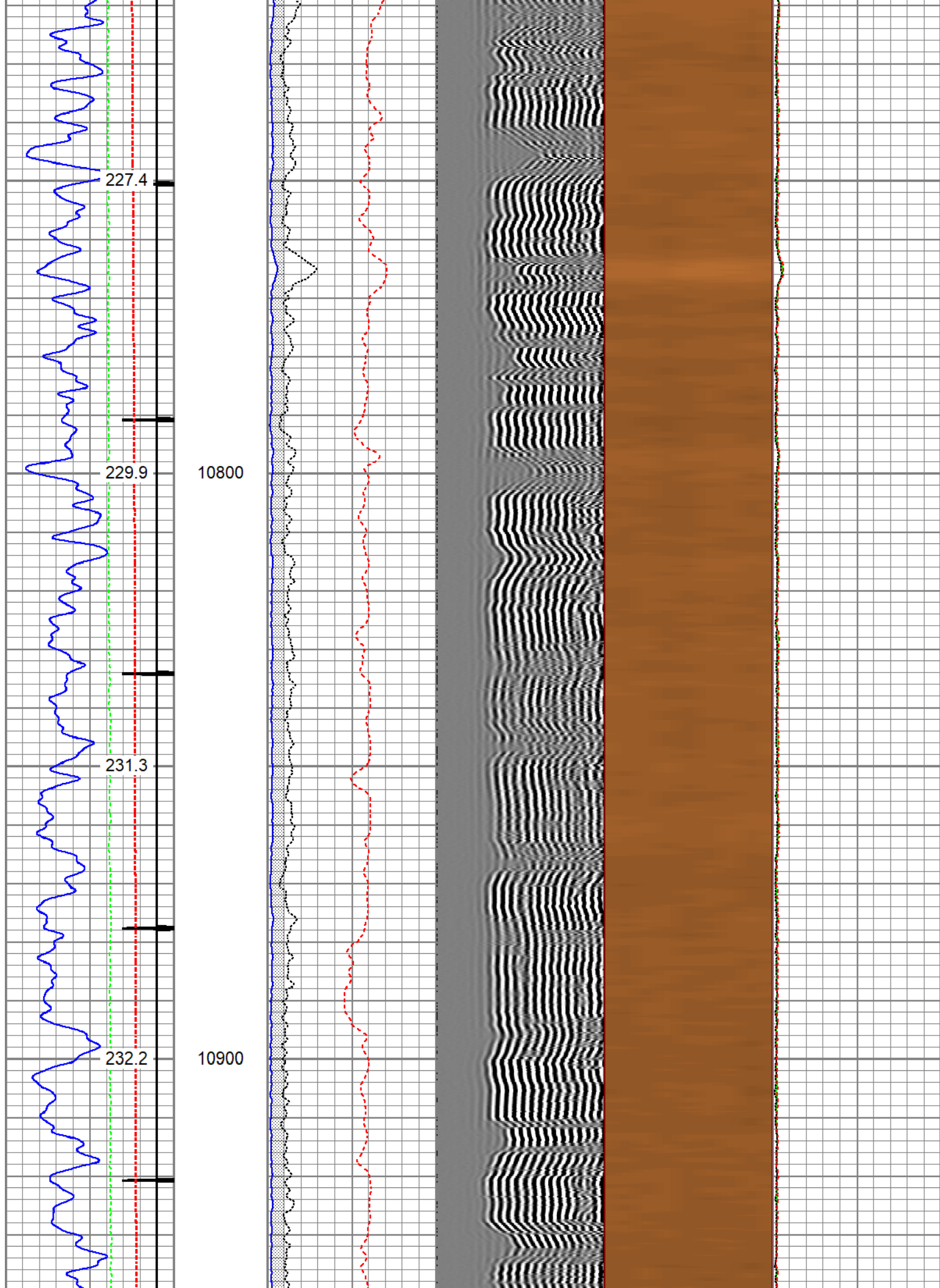


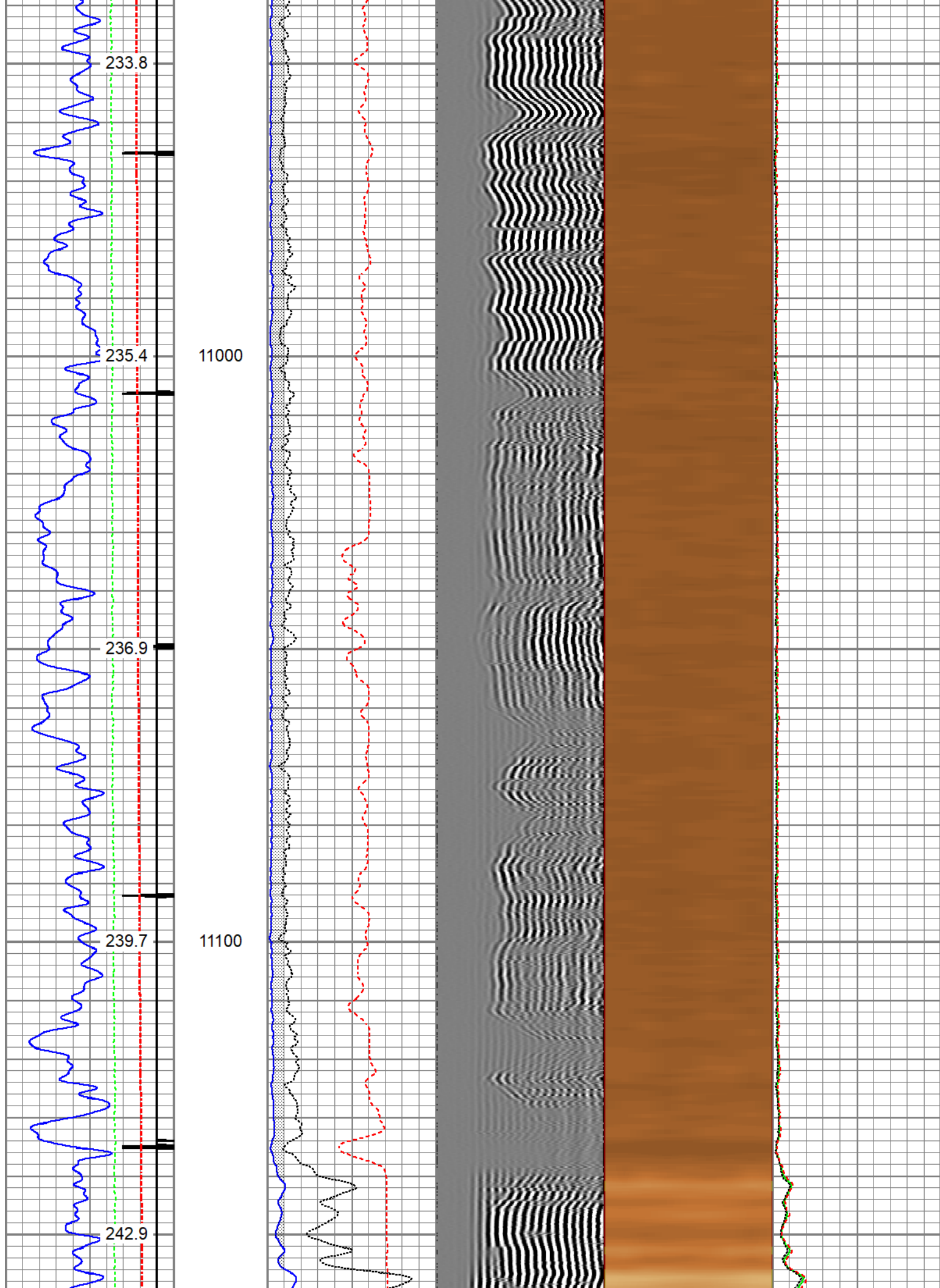


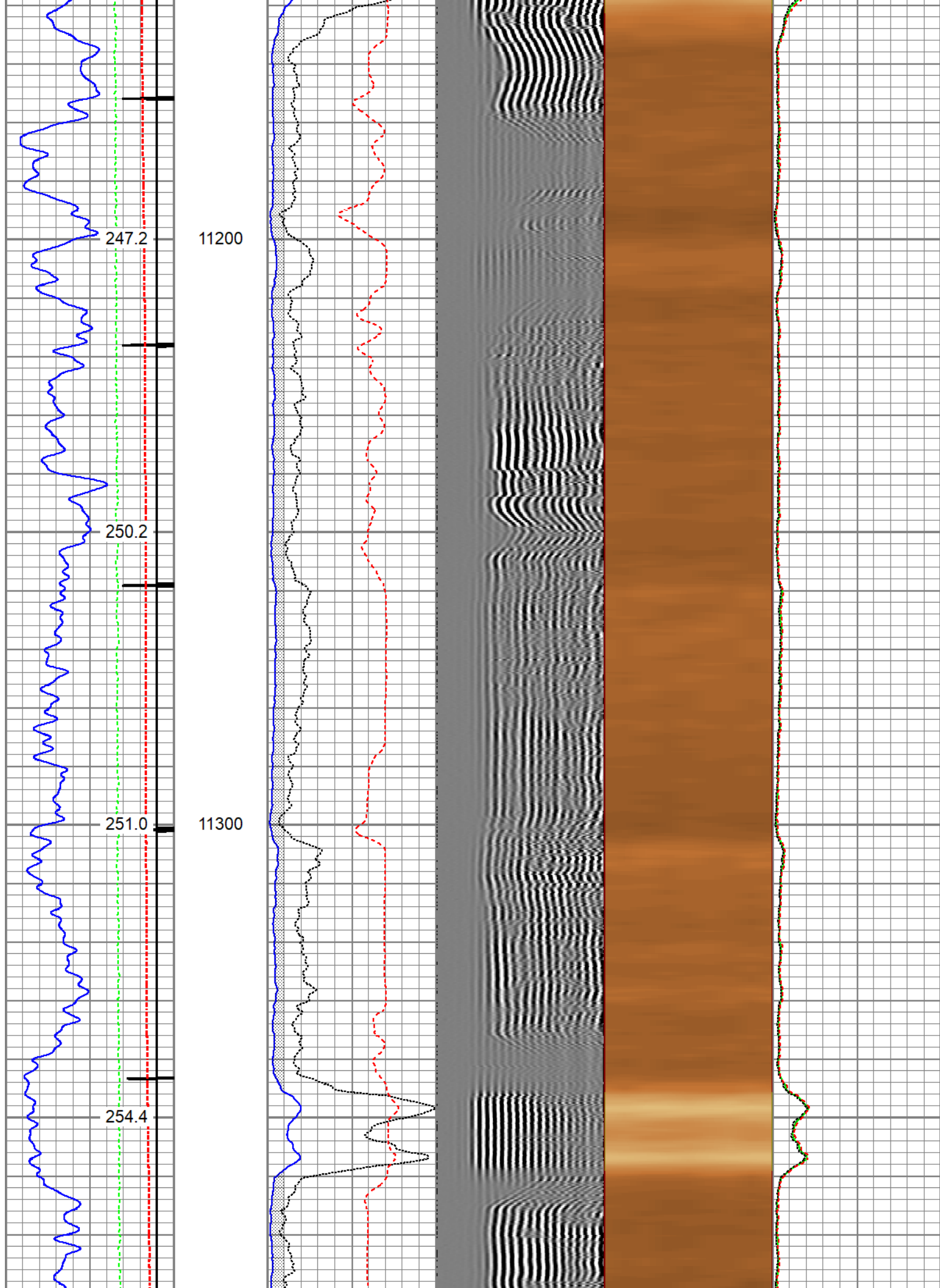


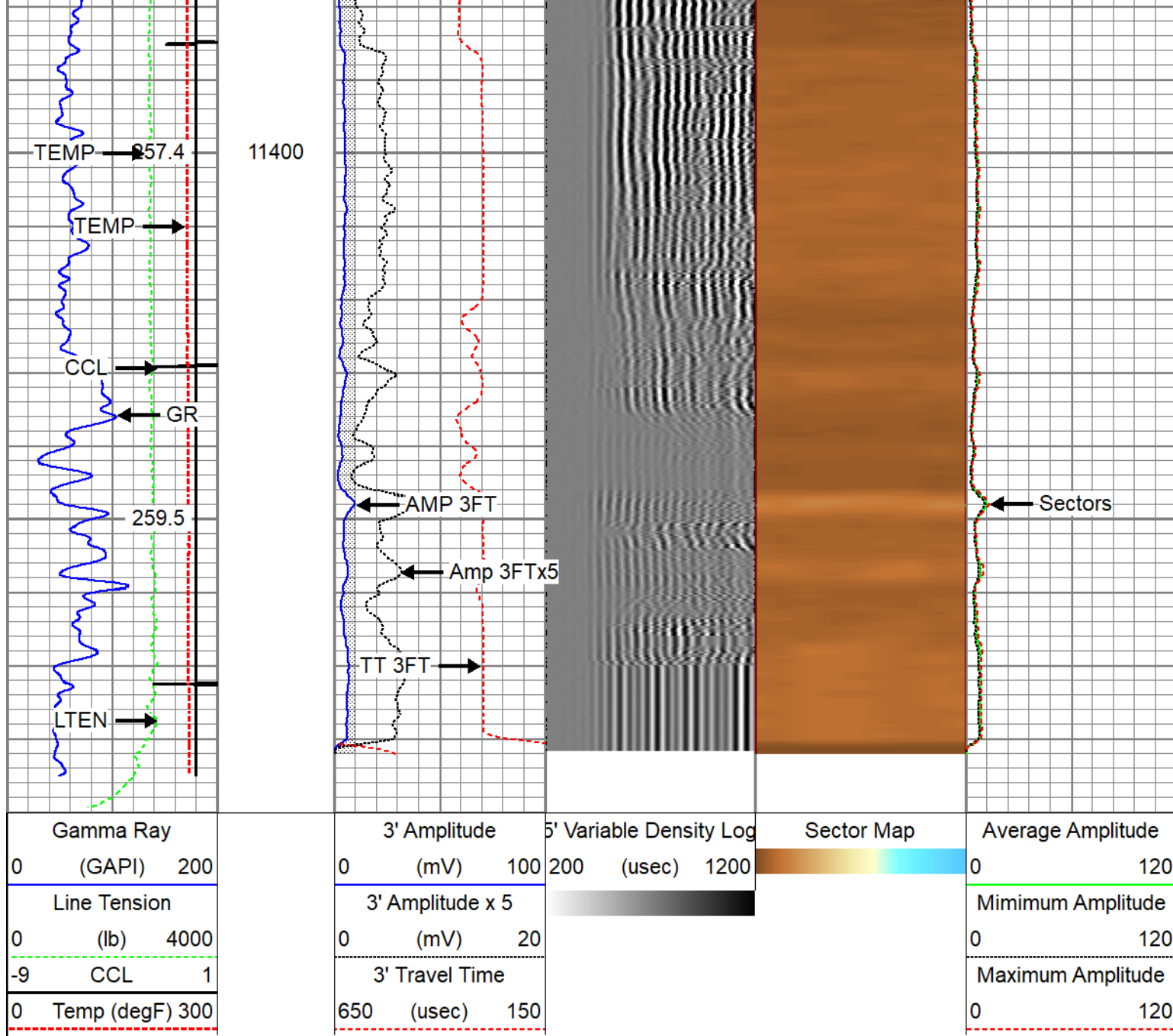






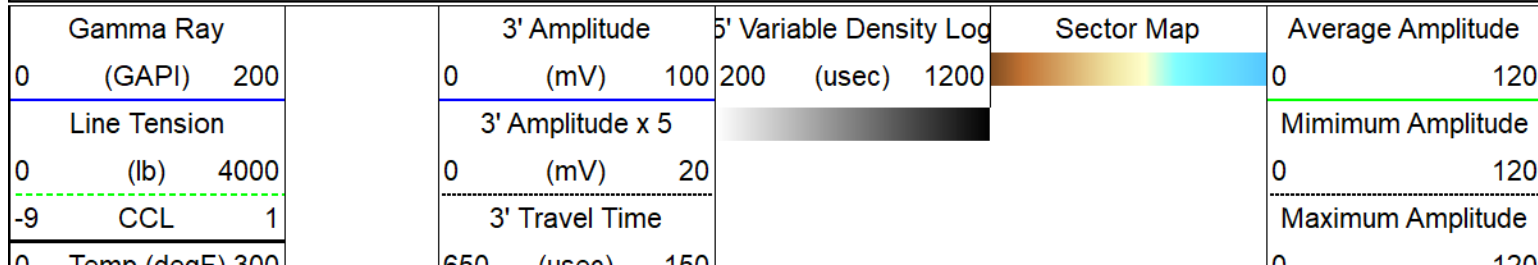


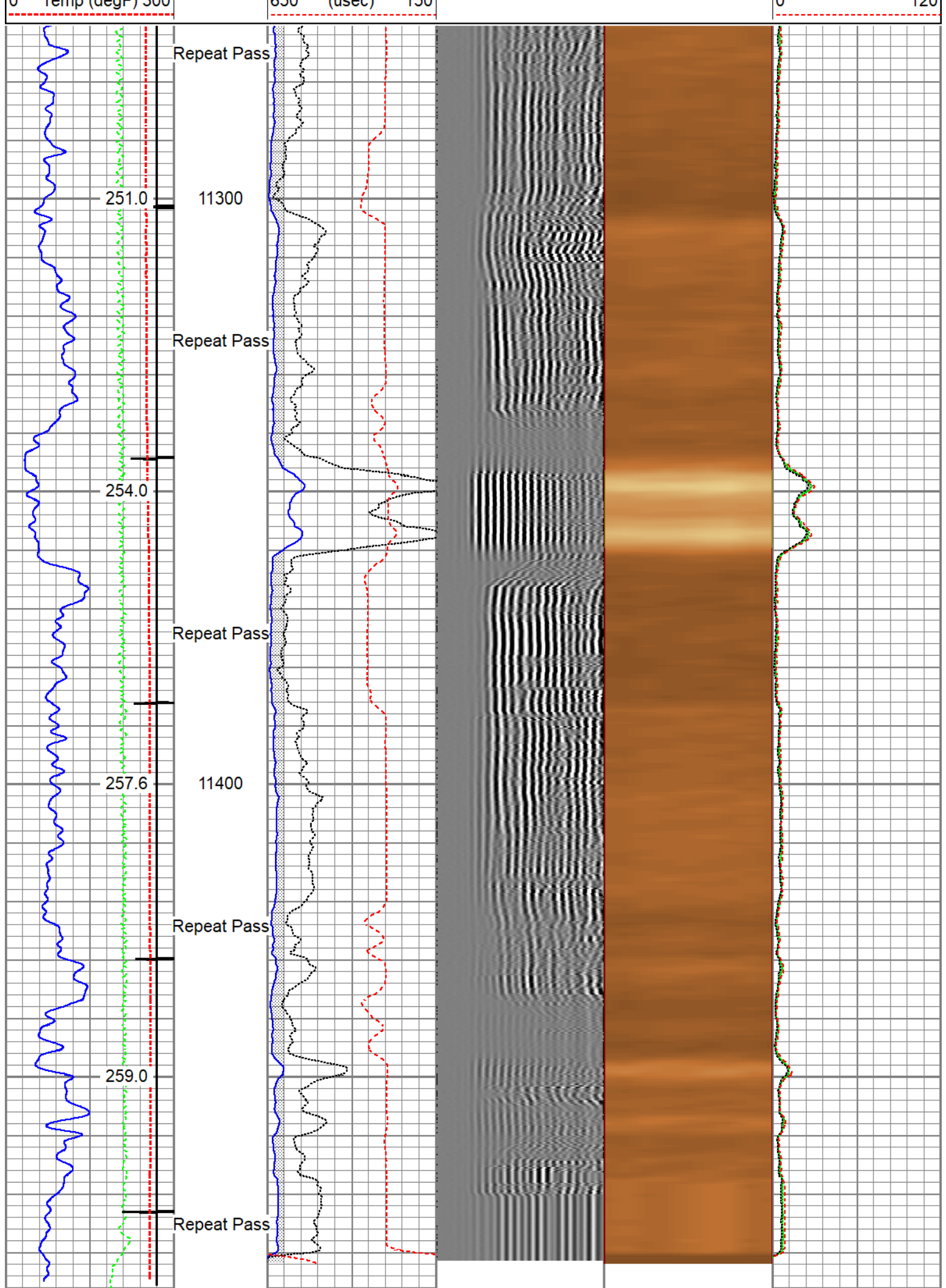





Repeat Pass 5" = 100'

Database File tep_wmc fed 33-20_rcbl_1-2-2023.db
 Dataset Pathname repeat
 Presentation Format twgrcbl
 Dataset Creation Mon Jan 02 12:47:20 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			3' Travel Time						Maximum Amplitude		
0	Temp (degF)	300	650	(usec)	150					0	120

		Calibration Report	
Database File	tep_wmc fed 33-20_rcbl_1-2-2023.db		
Dataset Pathname	main		
Dataset Creation	Mon Jan 02 12:53:52 2023		

Gamma Ray Calibration Report			
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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			
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Serial Number:		FW1312-30	
Tool Model:		Probe275acc	
Calibration Casing Diameter:		4.500	in
Calibration Depth:		288.269	ft

Master Calibration, performed Mon Jan 2 12:03:52 2023:							
	Raw (v)		Calibrated (mv)		Results		
	Zero	Cal	Zero	Cal	Gain	Offset	
3'	0.004	0.496	0.000	81.196	164.962	-0.691	
CAL	0.003	0.758					
5'	0.013	0.390	0.000	81.196	215.129	-2.810	
SUM							
S1	0.005	0.529	0.000	100.000	191.098	-1.045	
S2	0.007	0.514	0.000	100.000	197.027	-1.299	
S3	0.004	0.522	0.000	100.000	193.171	-0.868	
S4	0.005	0.520	0.000	100.000	193.893	-0.888	
S5	0.004	0.520	0.000	100.000	193.637	-0.678	
S6	0.005	0.492	0.000	100.000	205.205	-1.015	
S7	0.006	0.478	0.000	100.000	211.734	-1.300	
S8	0.004	0.515	0.000	100.000	195.686	-0.705	

Internal Reference Calibration, performed (Not Performed):							
	Raw (v)		Calibrated (v)		Results		
	Zero	Cal	Zero	Cal	Gain	Offset	
CAL	0.000	0.000	0.000	0.750	1.000	0.000	

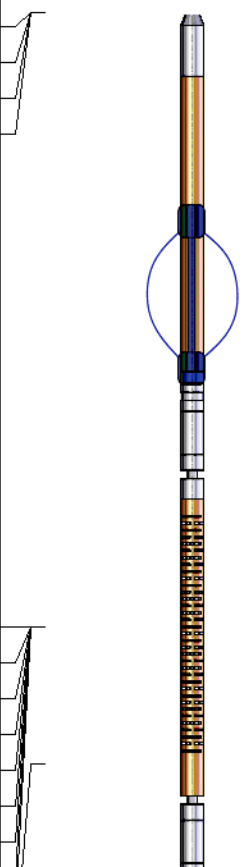

CAL 0.000 0.000 0.003 0.758 1.000 0.000

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					

Tool Joint	Length (ft)	Weight (lb)	OD (in)	Weight (lb)	OD (in)	Weight (lb)	OD (in)
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 33-20_rcbl_1-2-2023.db: field/well/run1/main Total length: 13.85 ft Total weight: 186.00 lb O.D.: 3.25 in							