



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC
Well Federal WMC 312-20
Field Rulison
County Garfield
State Colorado

Company TEP Rocky Mountain LLC
Well Federal WMC 312-20
Field Rulison
County Garfield
State Colorado

Location: API #: 05-045-24486

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 15-DEC-2022

Run Number One

Depth Driller 11268 FT

Depth Logger 11159 FT

Bottom Logged Interval 11159 FT

Top Log Interval Surface

Open Hole Size 8.75"

Type Fluid Water

Density / Viscosity 8.34 Lb/Gal

Max. Recorded Temp. 263°F

Estimated Cement Top See Log

Time Well Ready ROA

Time Logger on Bottom 10:30

Equipment Number 8047

Location Grand Junction

Recorded By A. Ellsworth

Witnessed By S. Bungamer

Borehole Record

Run Number Bit From To Size Weight From To

Tubing Record

Run Number Bit From To Size Weight From To

Size

9-5/8"

Wgt/Ft

36

Top

Bottom

1170 FT

Surface

11.6

Surface

11258 FT

Comments


Log ran as per customer request
Depth referenced to Kelly Bushing at 30 FT
Marker joint logged from 6826 FT to 6835 FT

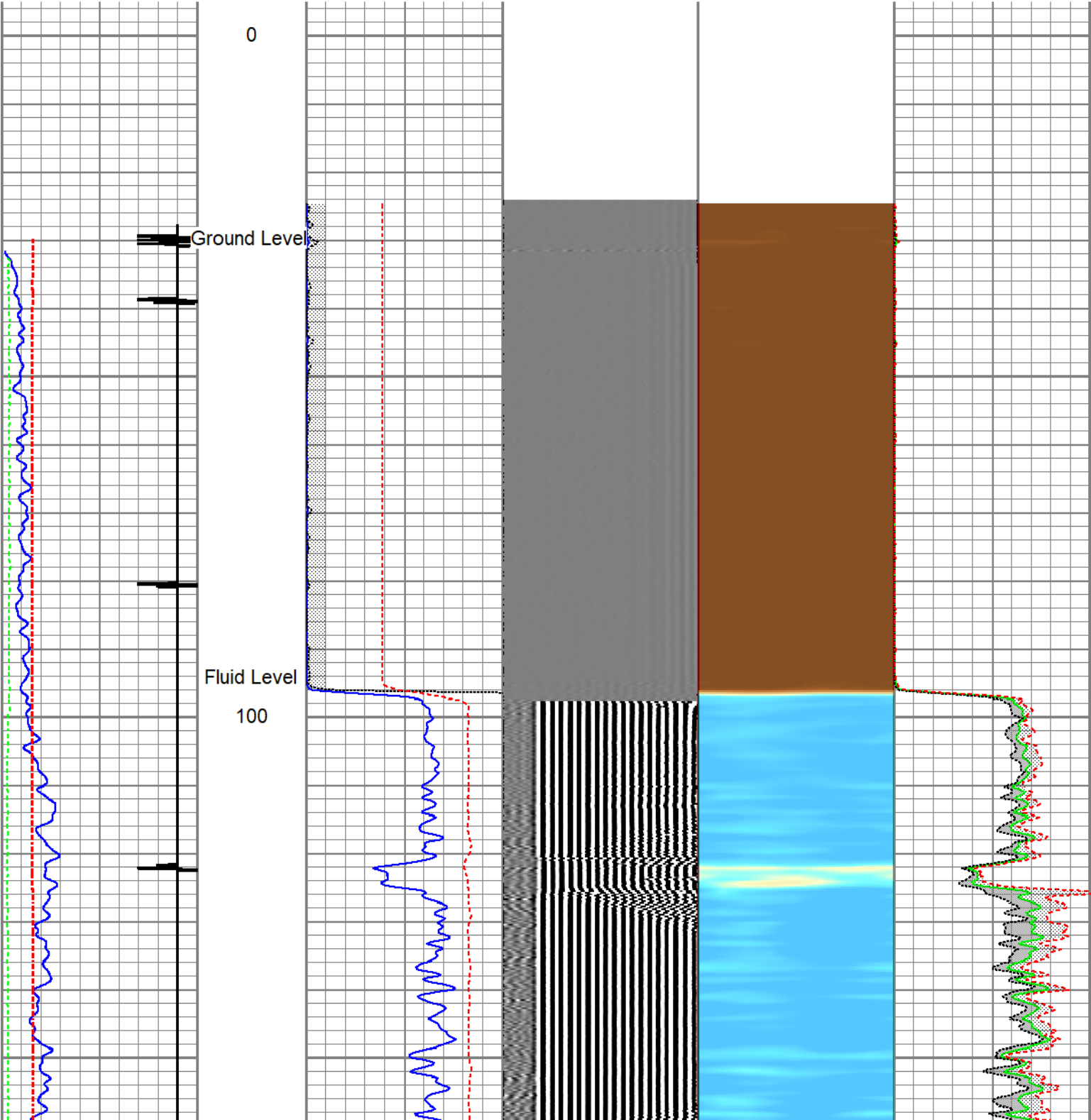
Thank you for choosing The Wireline Group!

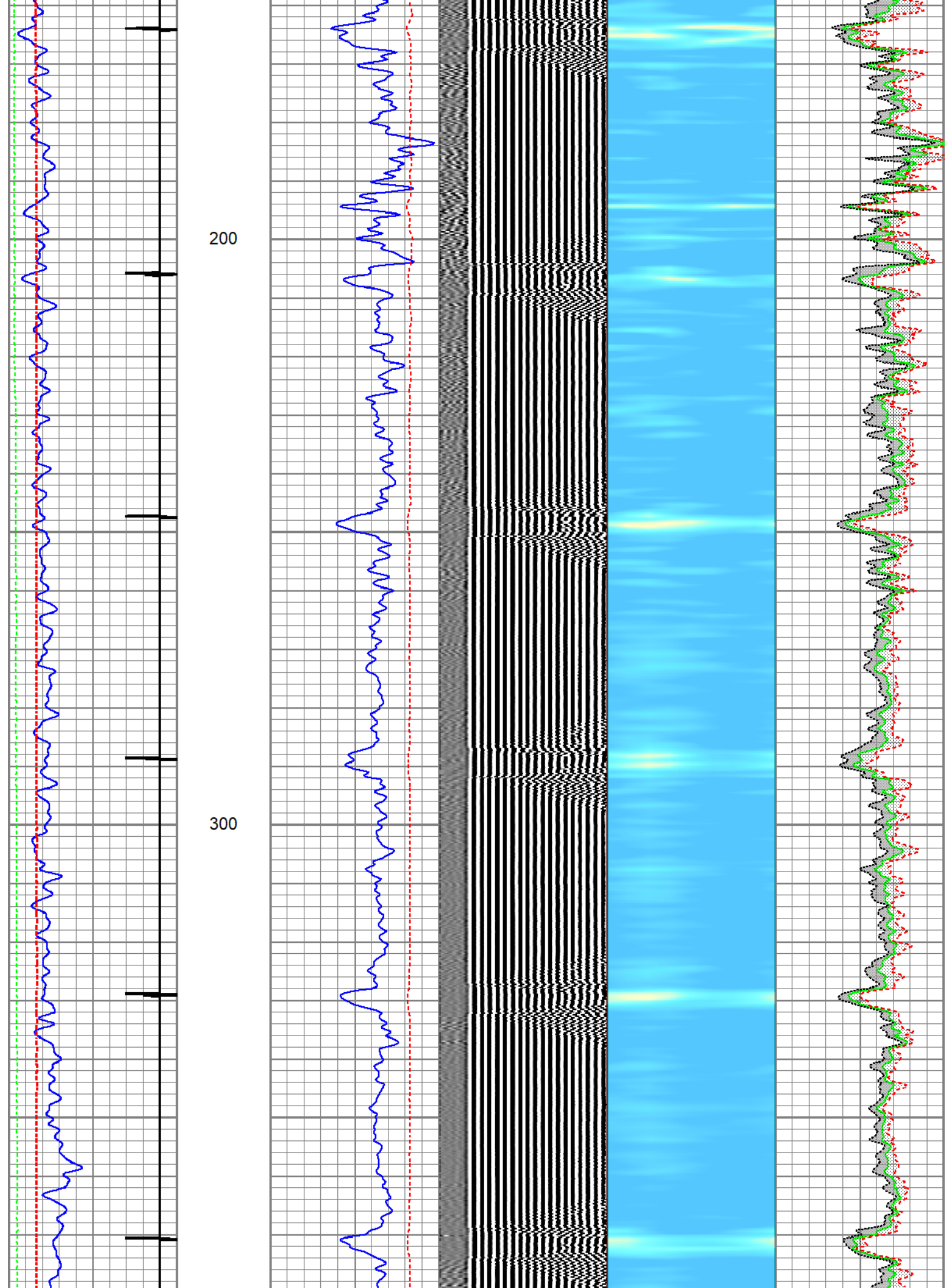


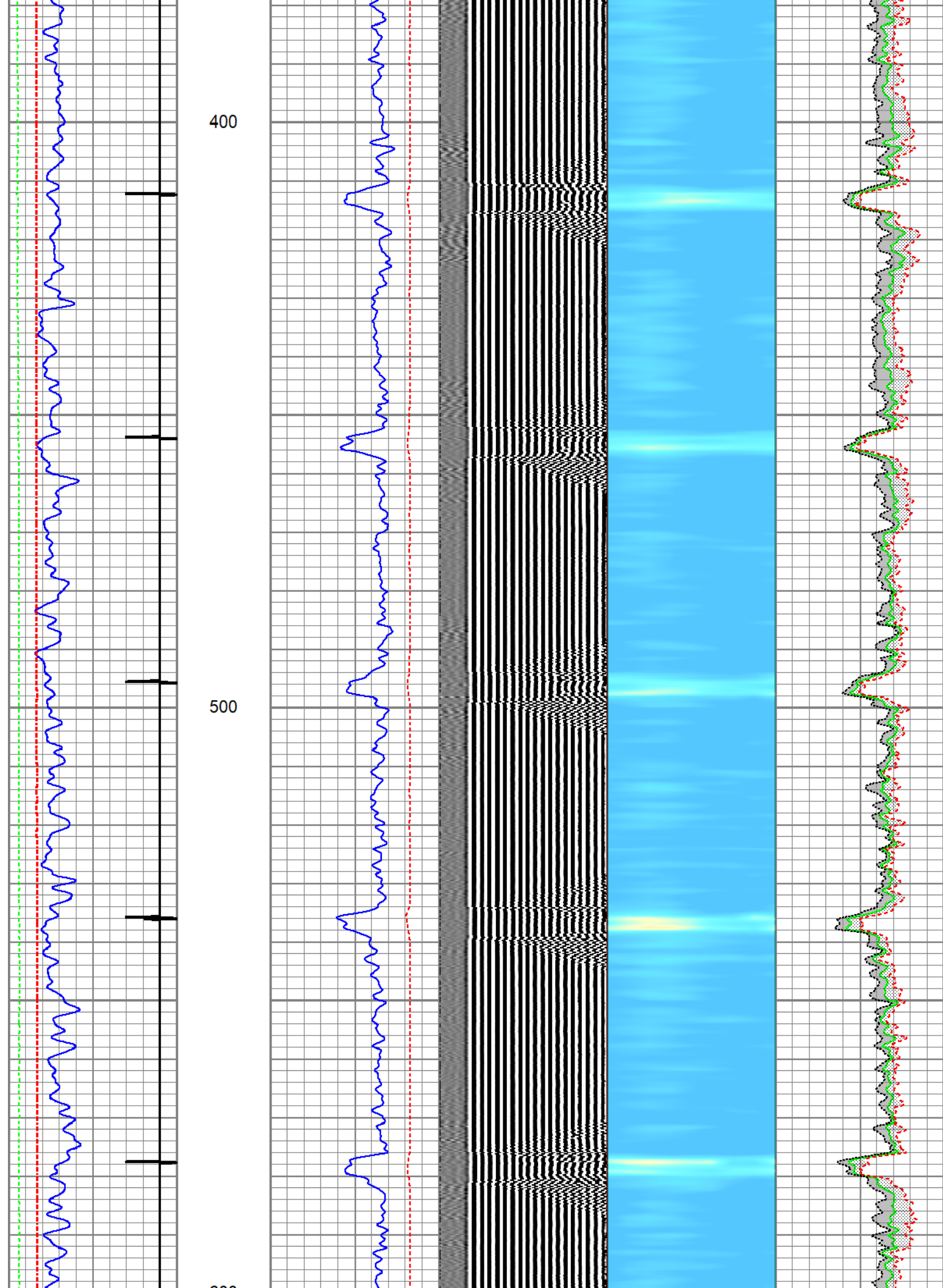
Main Pass 5" = 100'

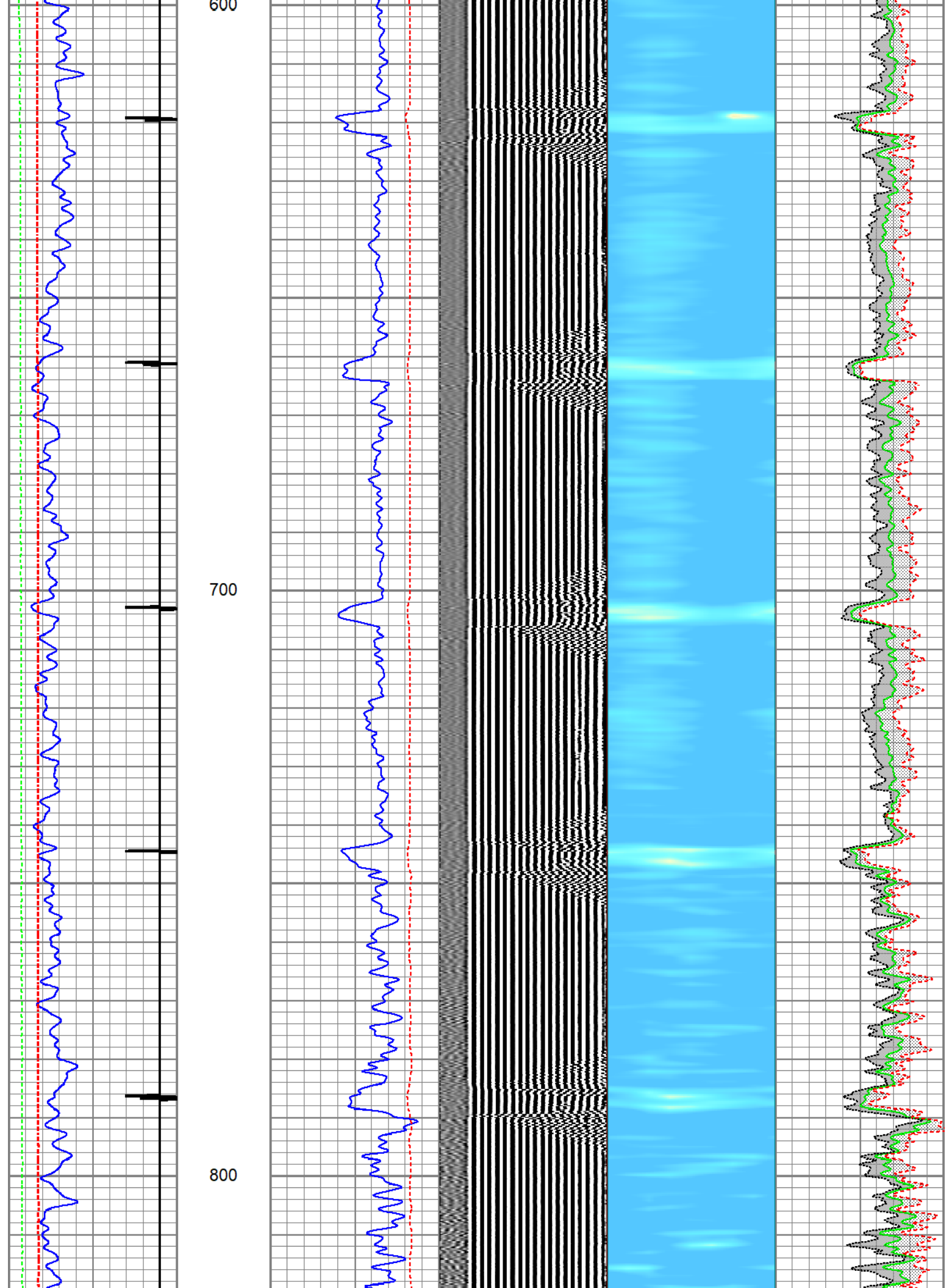
Database File tep_fed wmc 312-20_rcbl_12-15-2022.db
Dataset Pathname main
Presentation Format twgrcbl
Dataset Creation Thu Dec 15 10:46:59 2022
Charted by Depth in Feet scaled 1:240

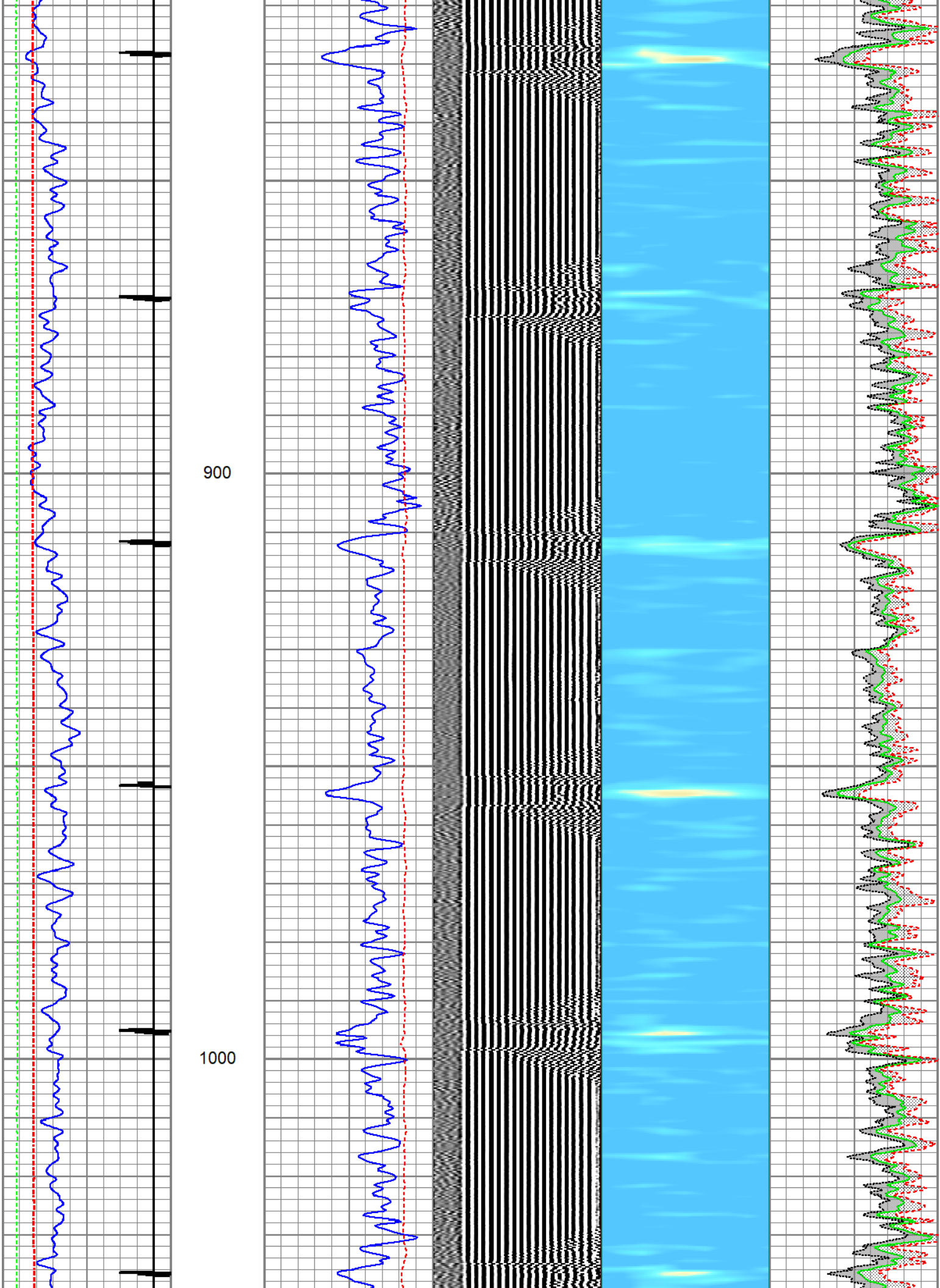
Gamma Ray			3' Amplitude		5' Variable Density Log	Sector Map	Average Amplitude			
0	(GAPI)	200	0	(mV)			100	200	(usec)	1200
Line Tension			3' Amplitude x 5				Minimum Amplitude			
0	(lb)	3000	0	(mV)			20	0	120	
-9	CCL\$1	1	3' Travel Time				Maximum Amplitude			
0	Temp (degF)	300	650	(usec)	150		0	120		

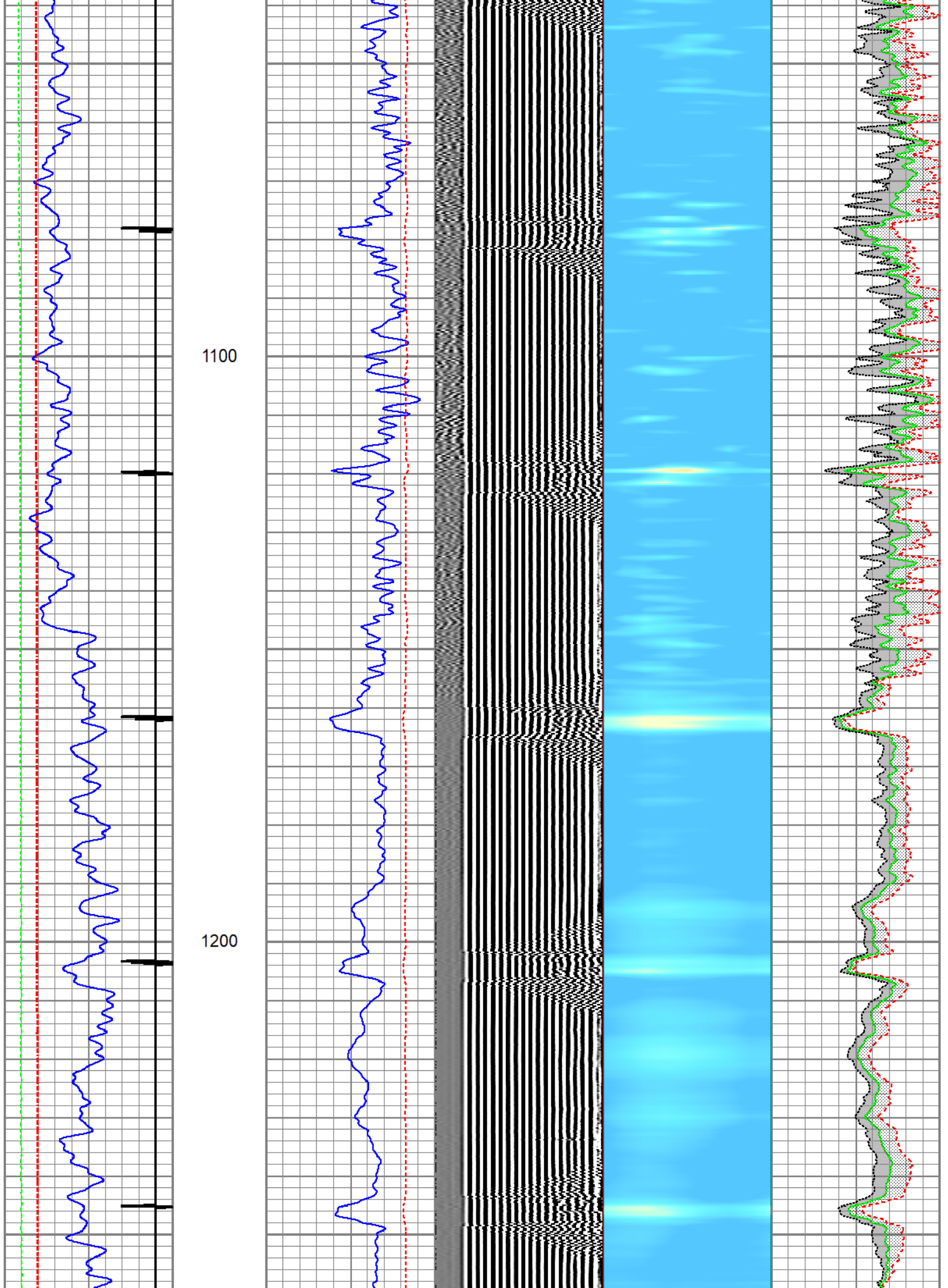


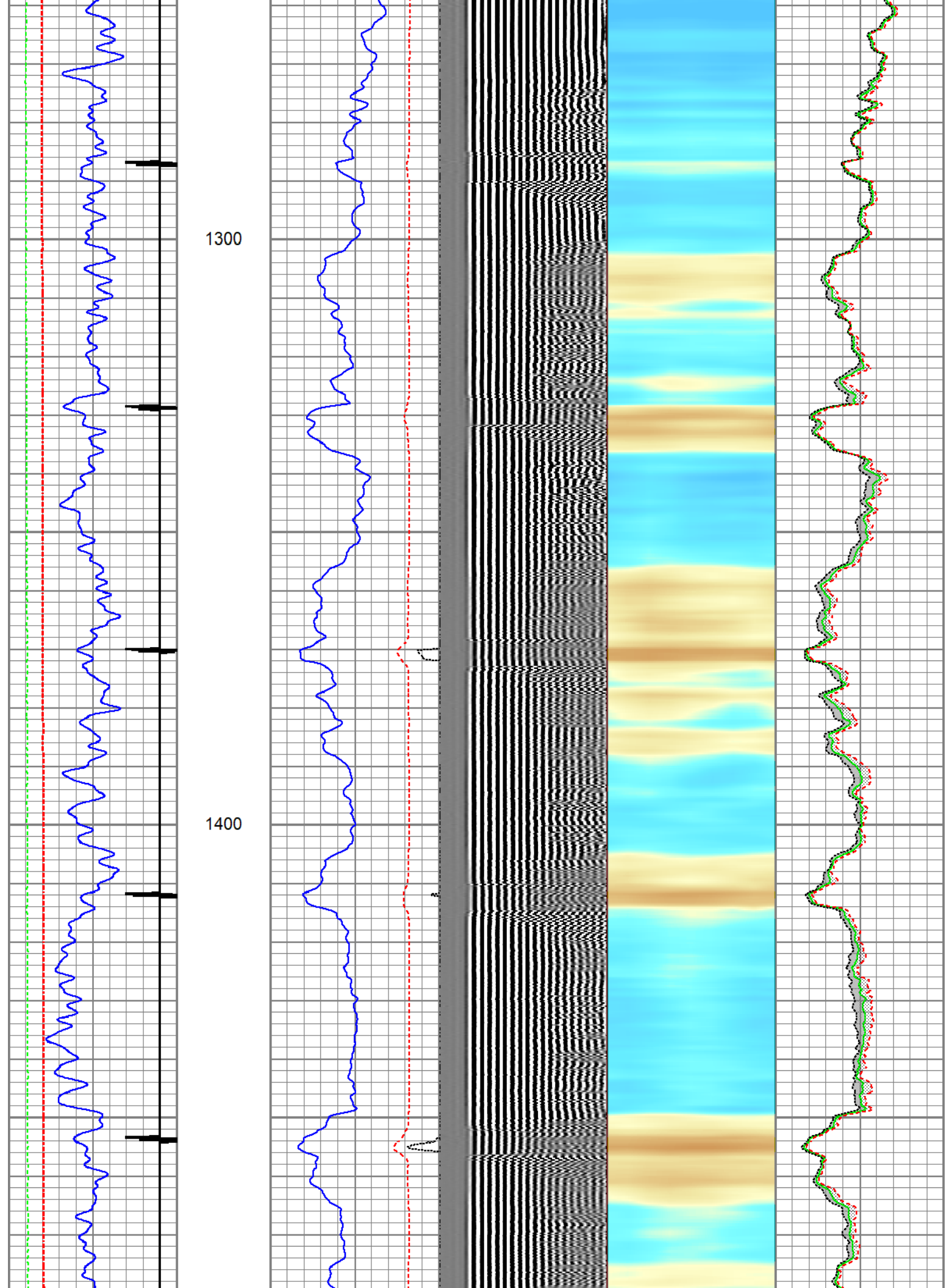


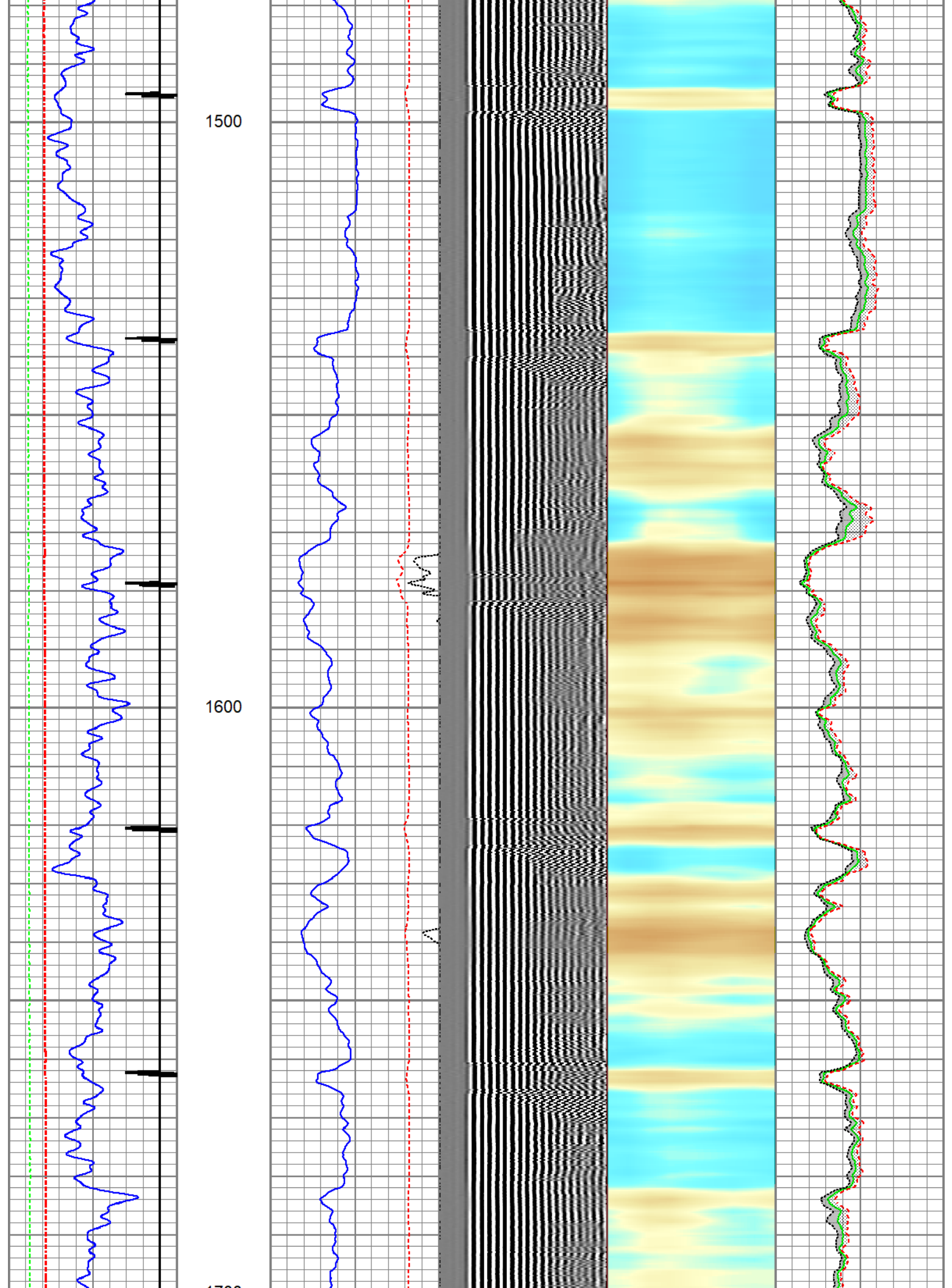


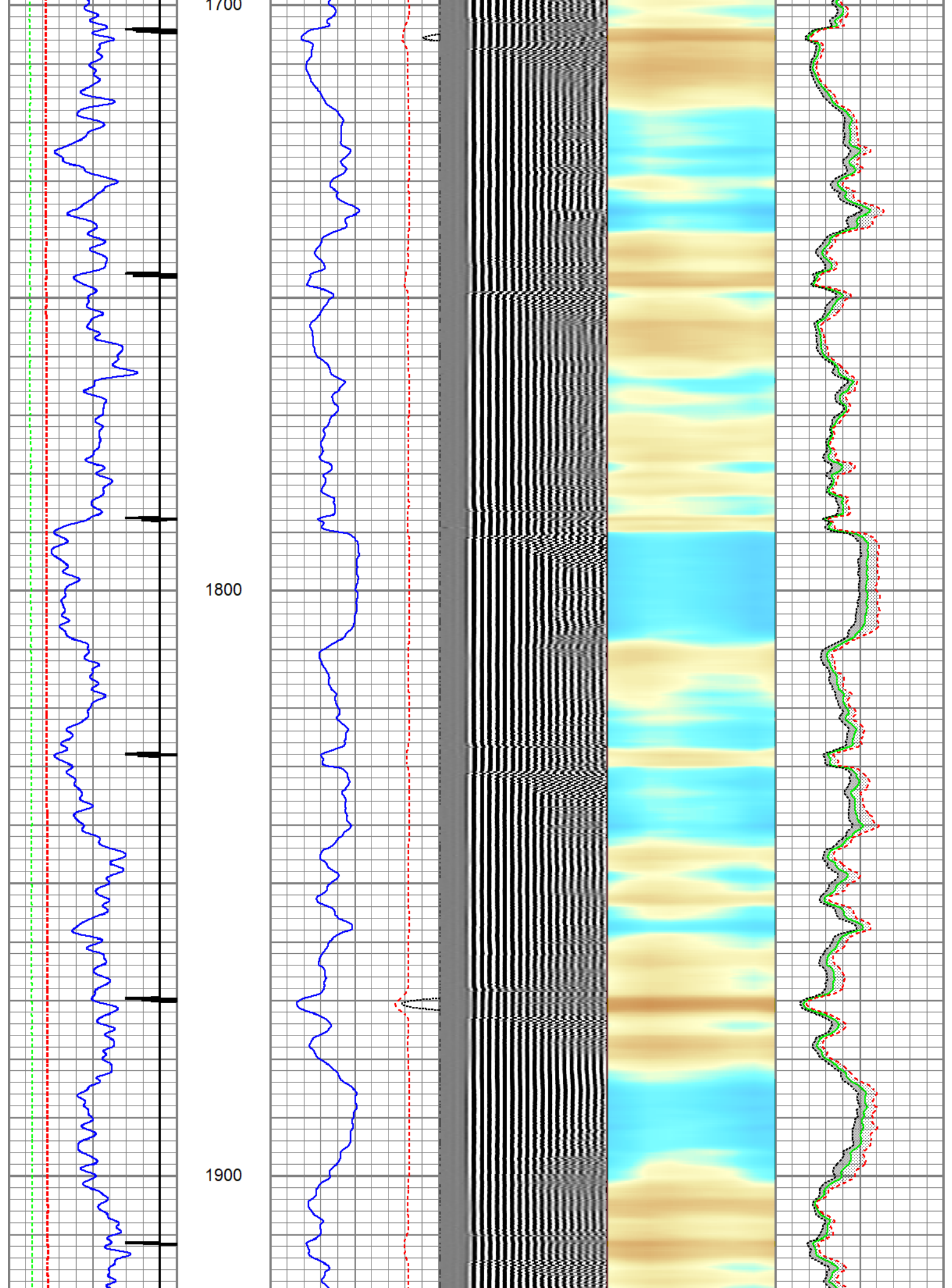


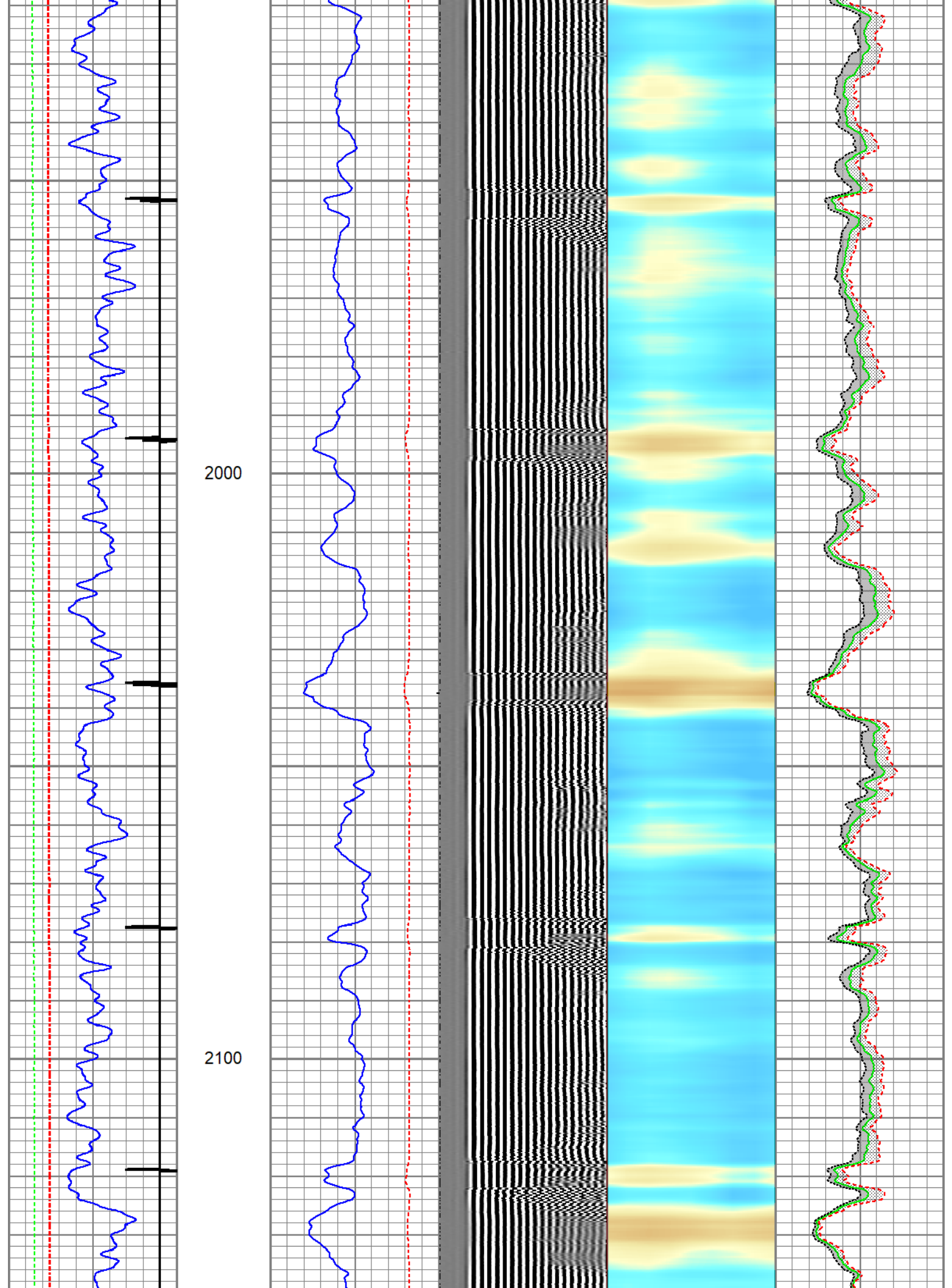


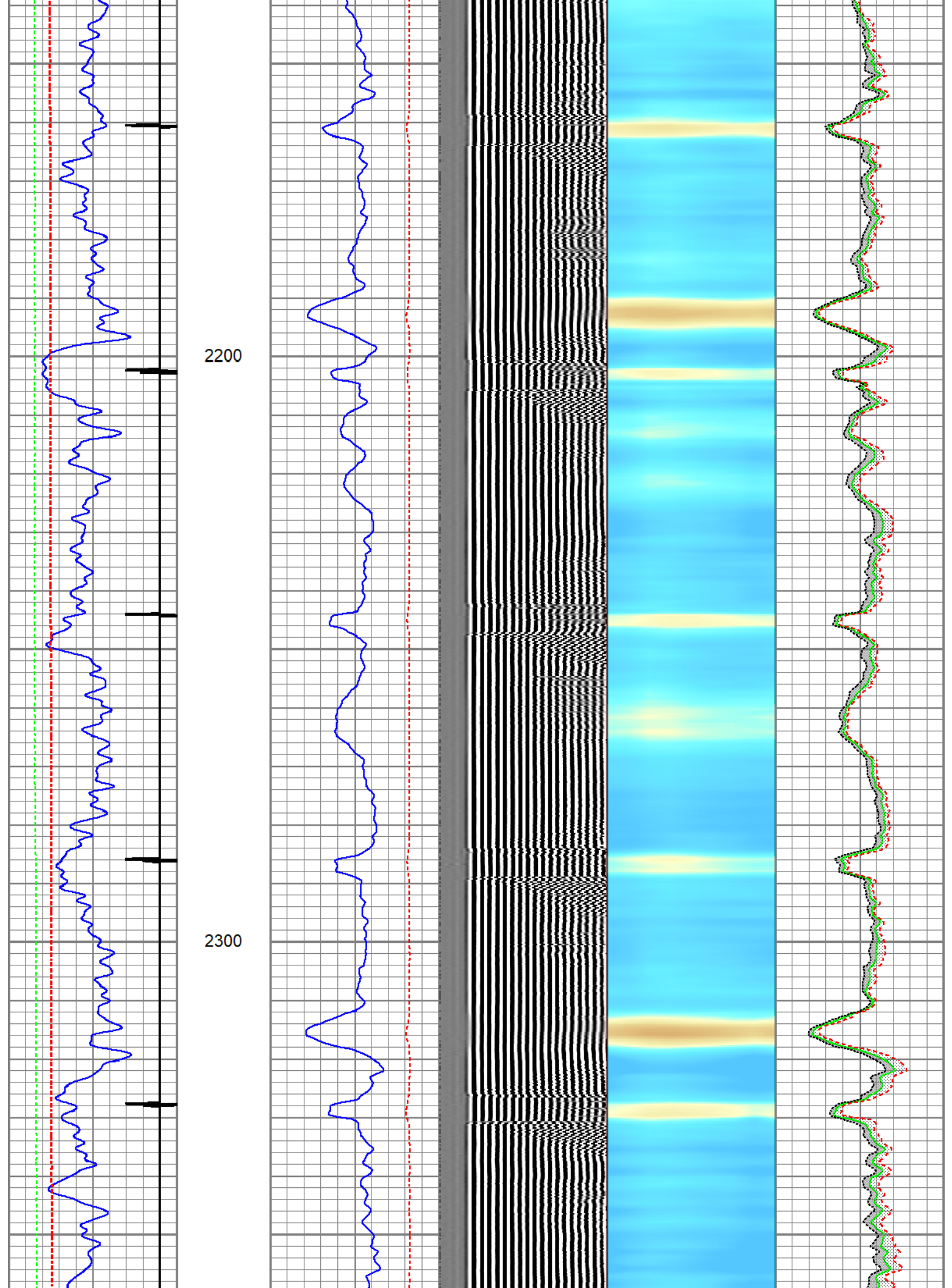


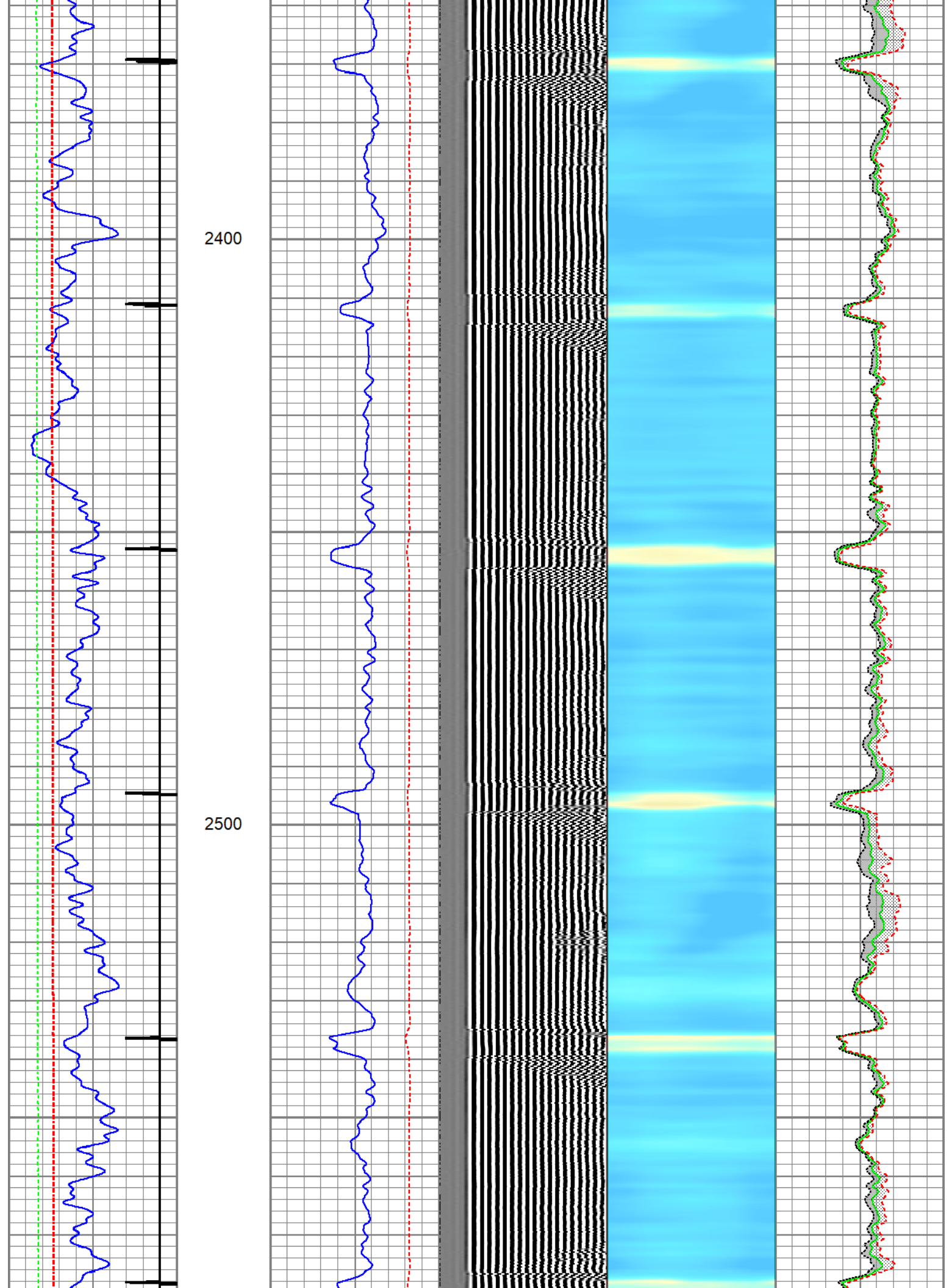


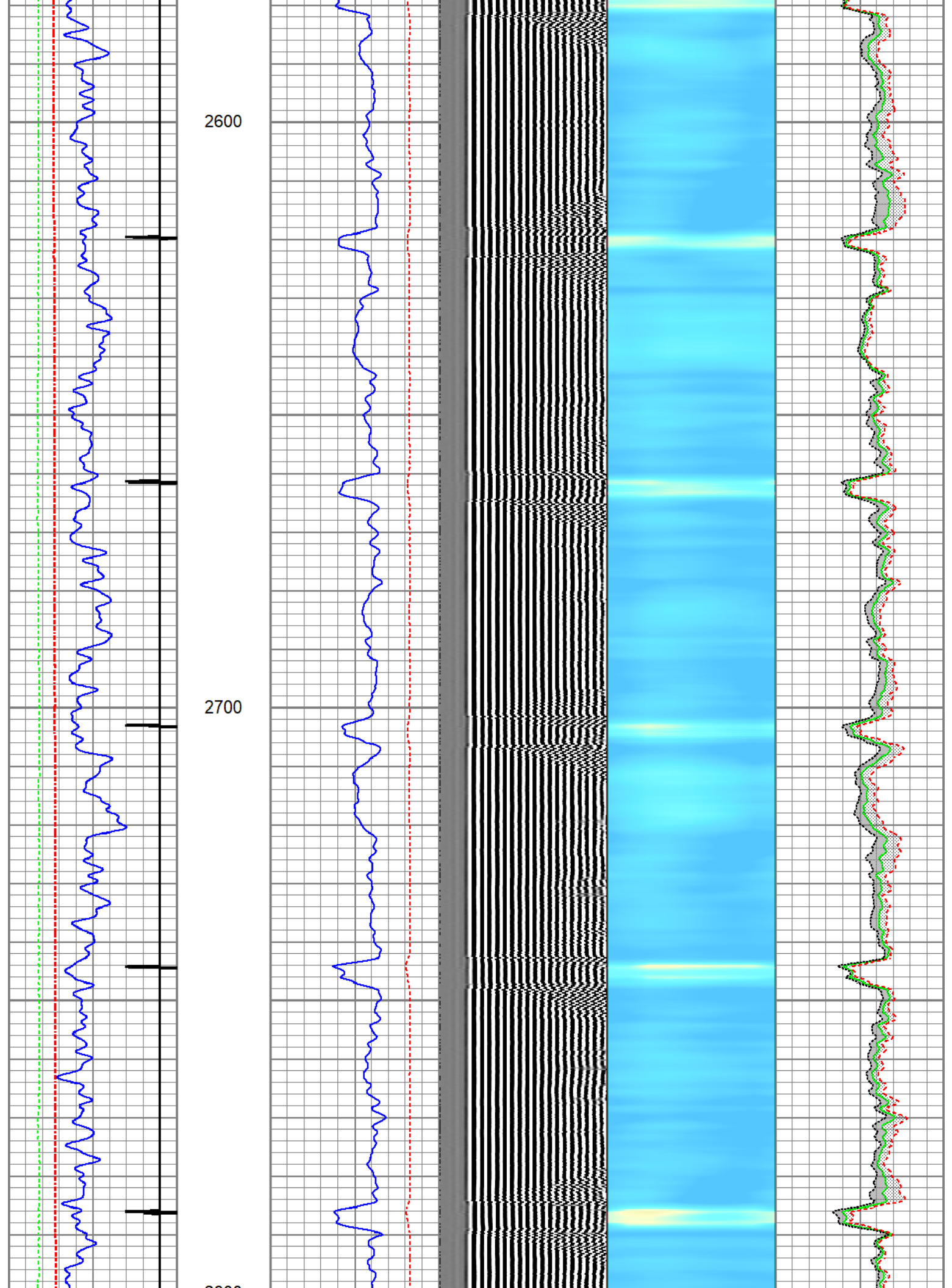








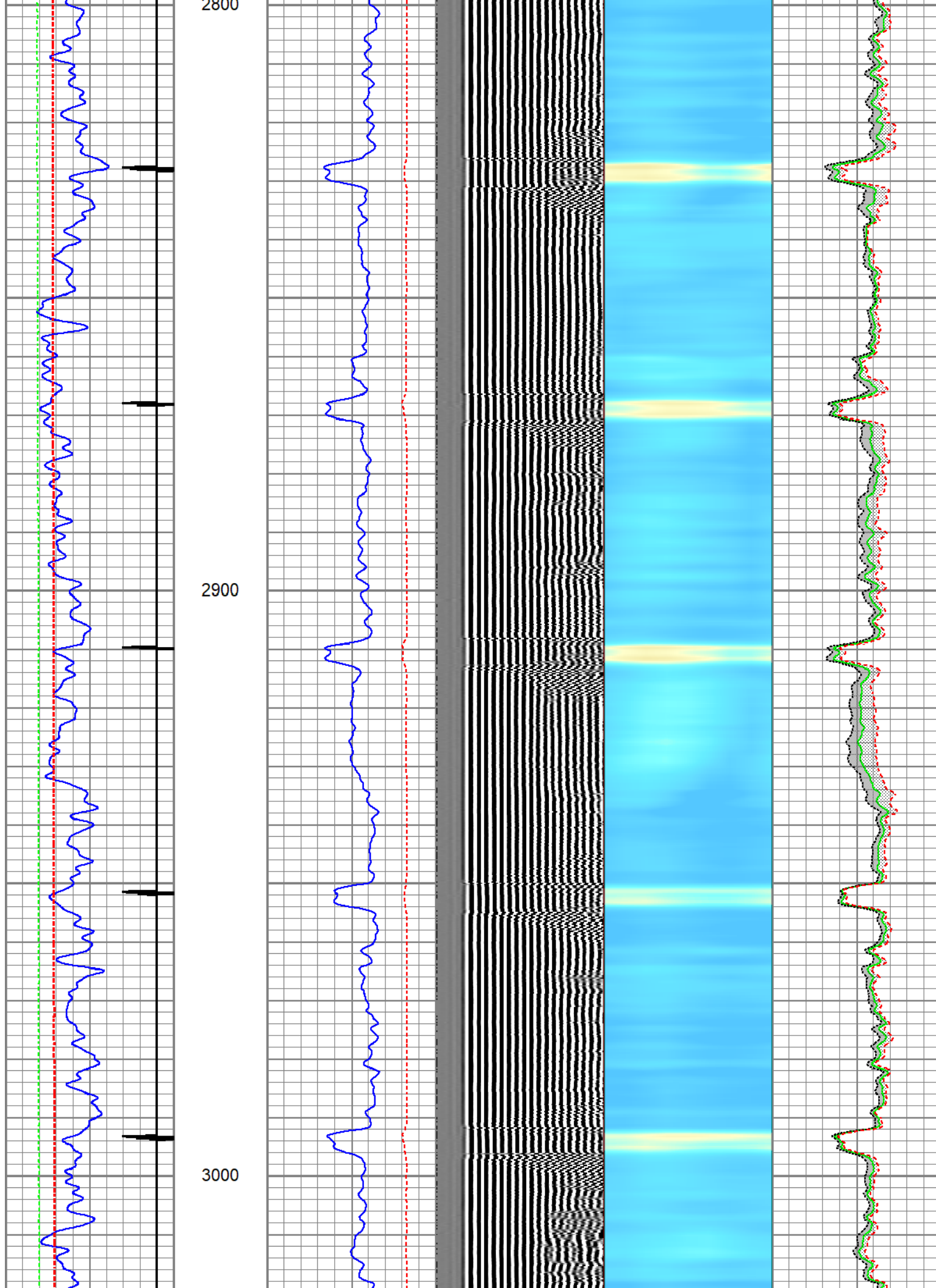


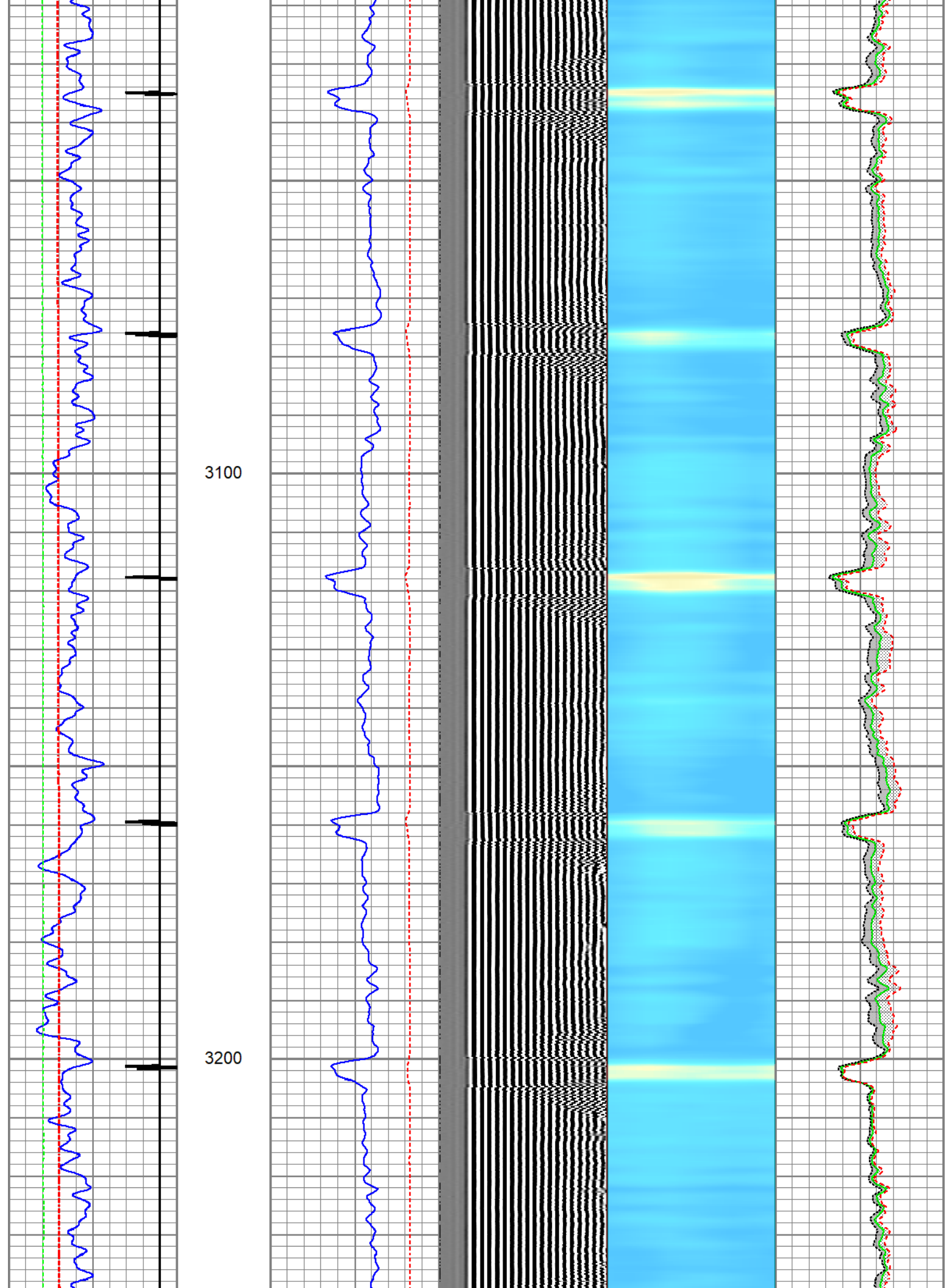


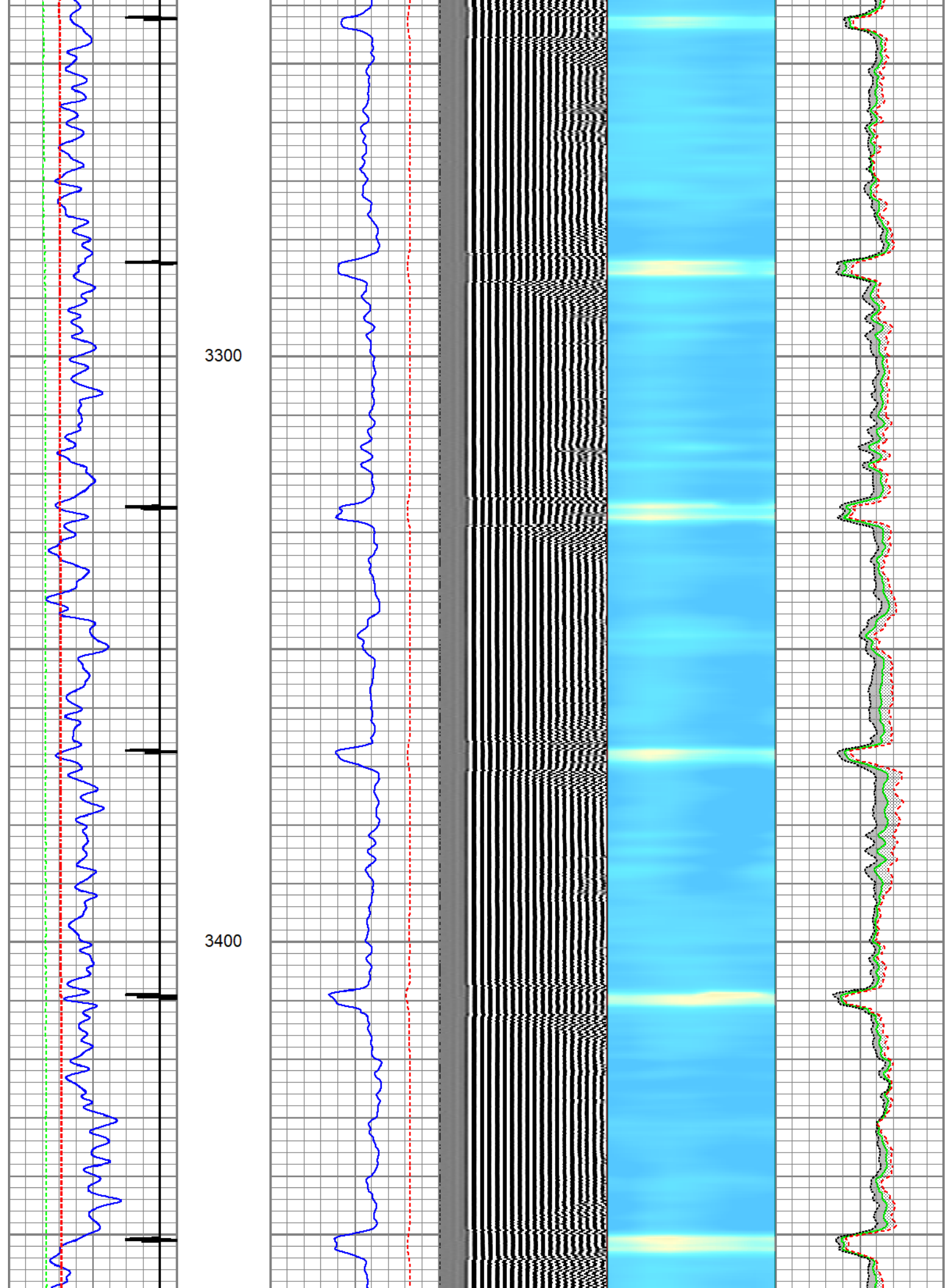
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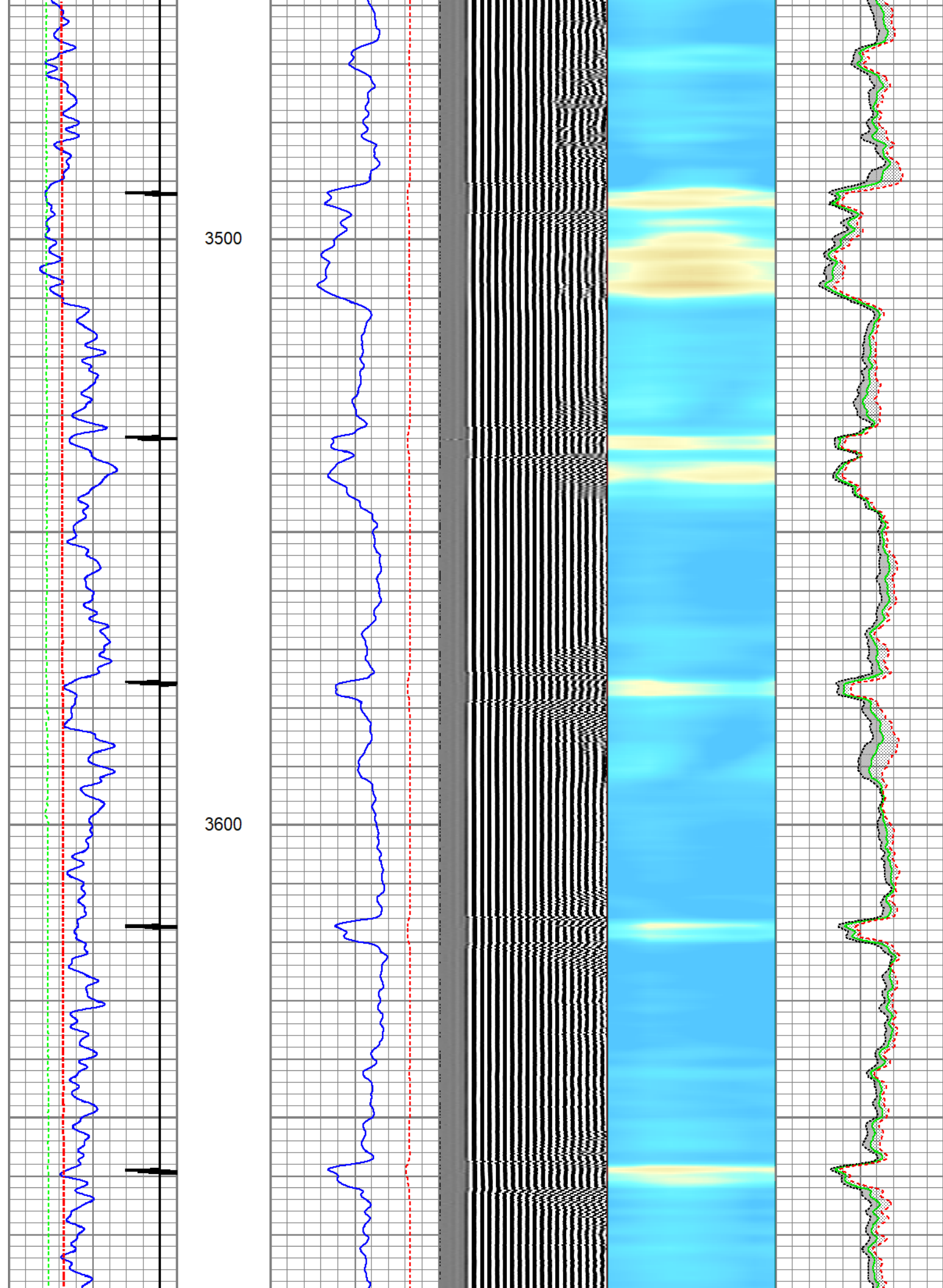
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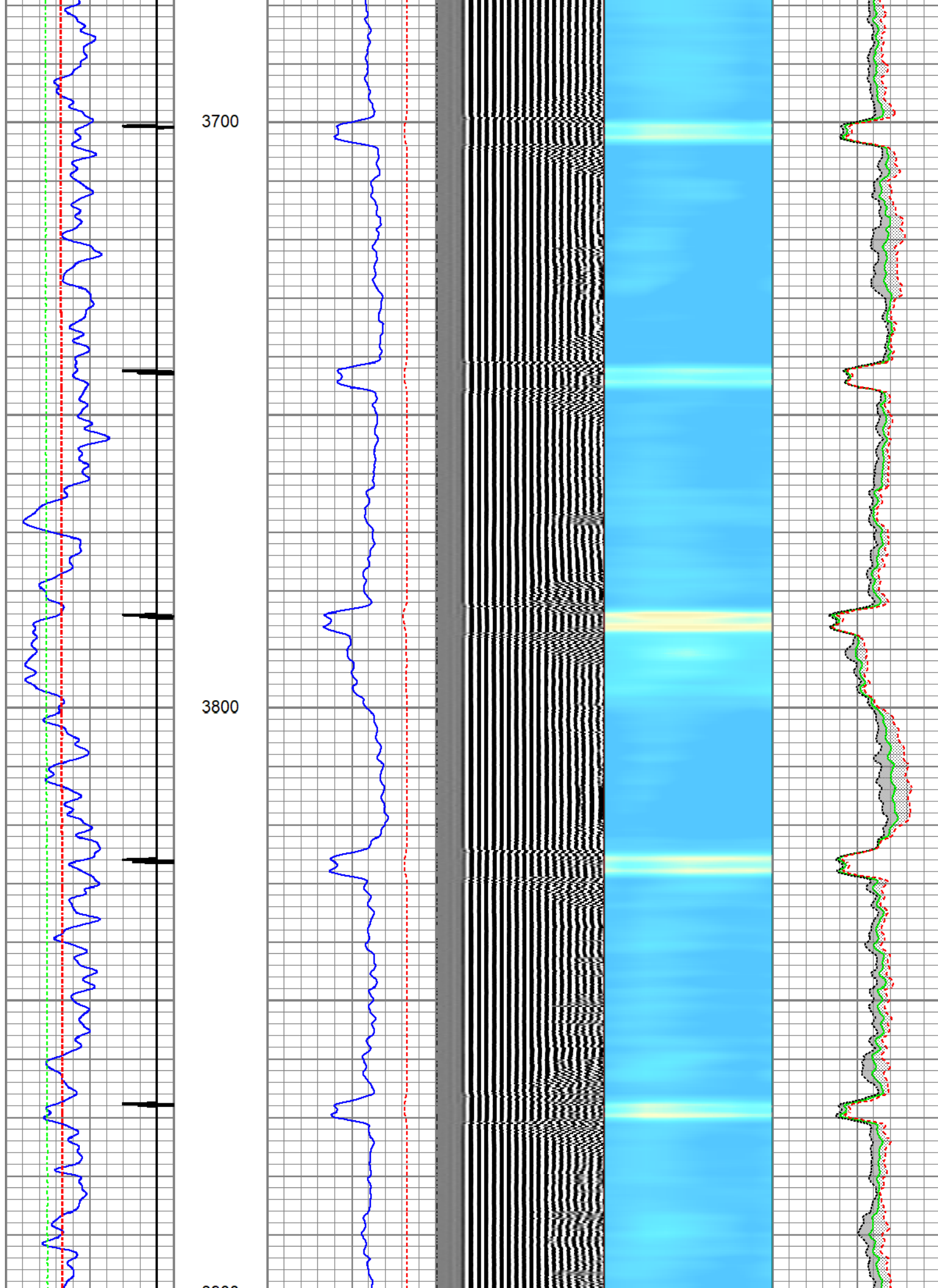
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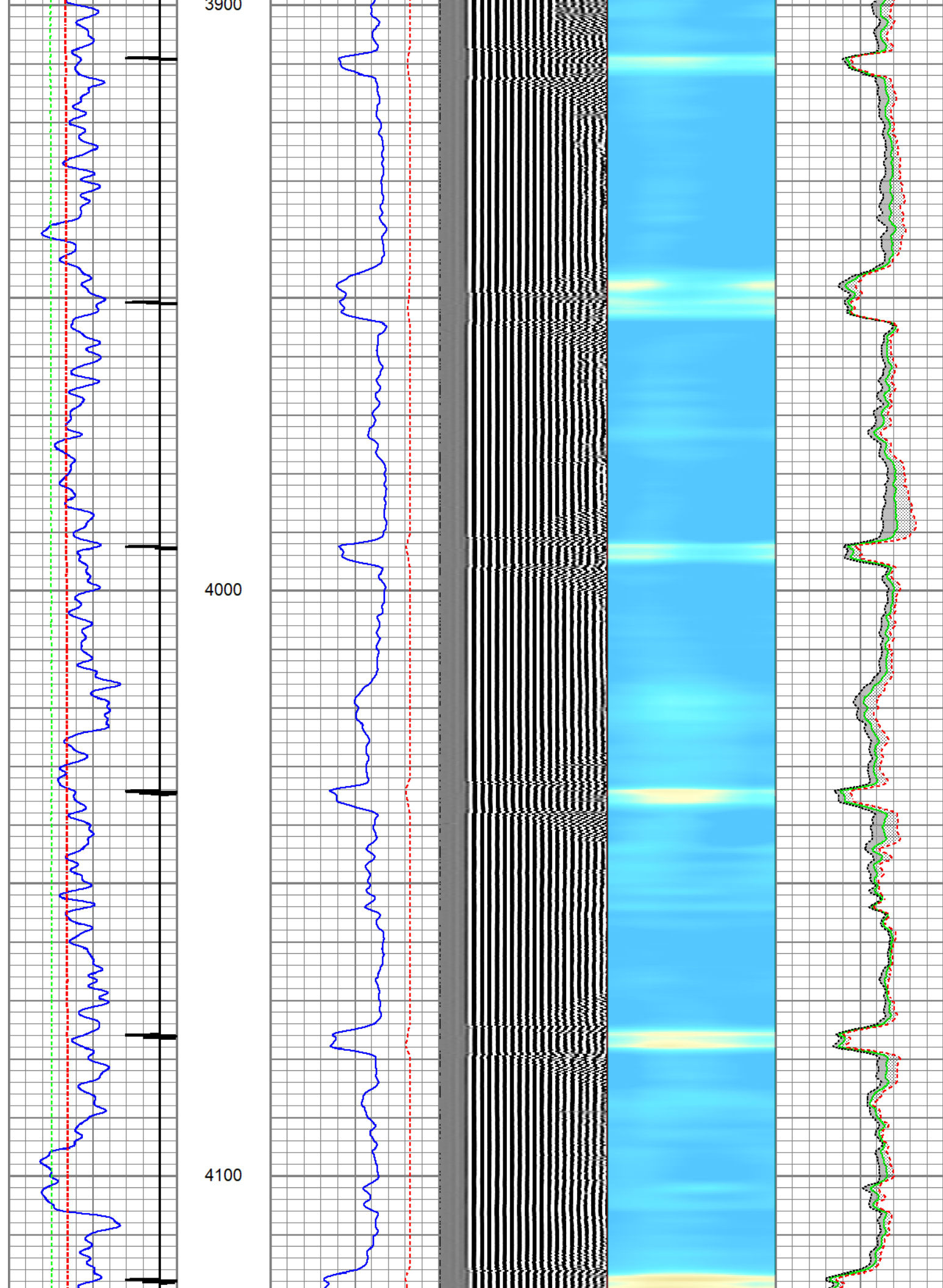


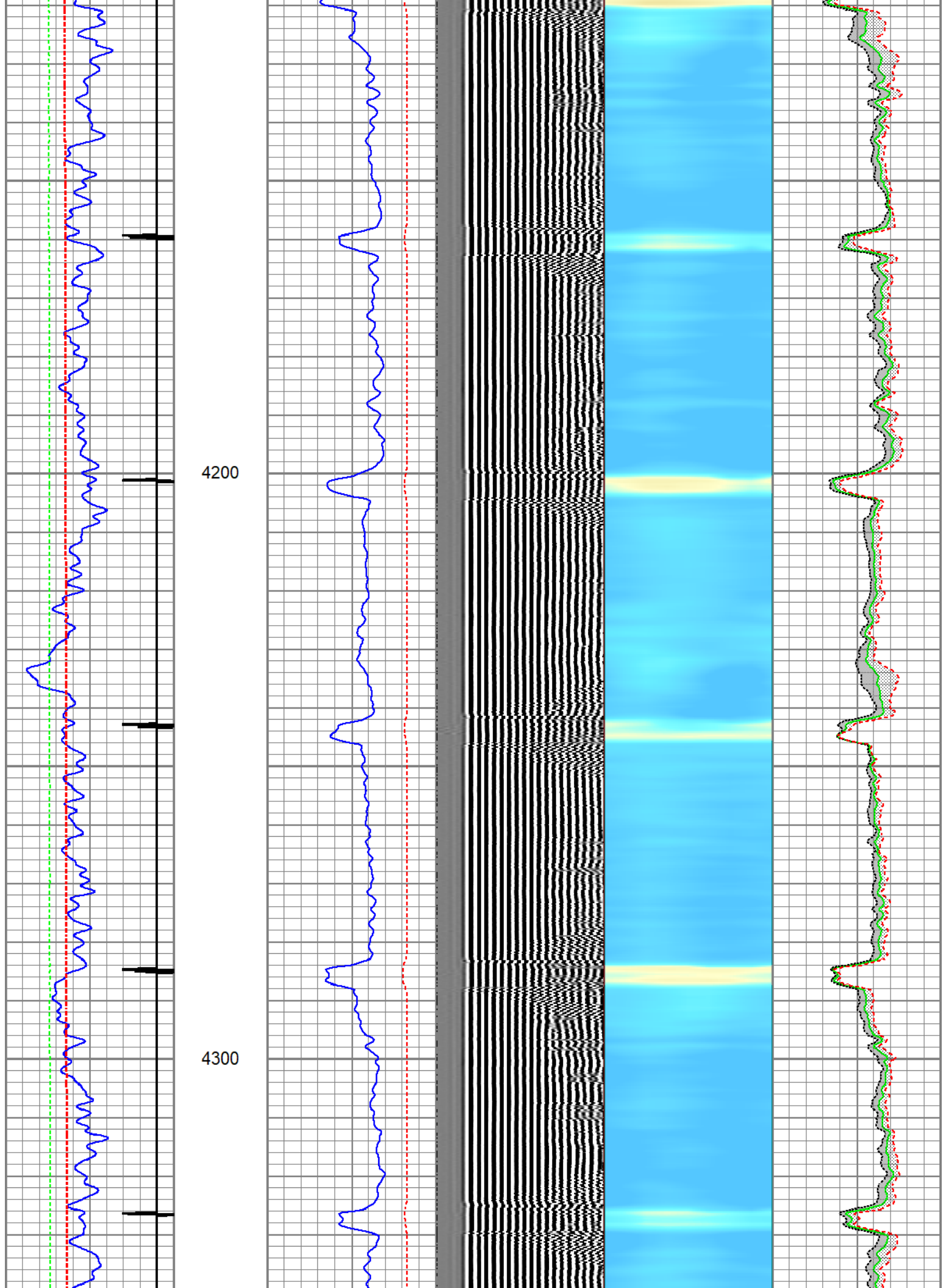


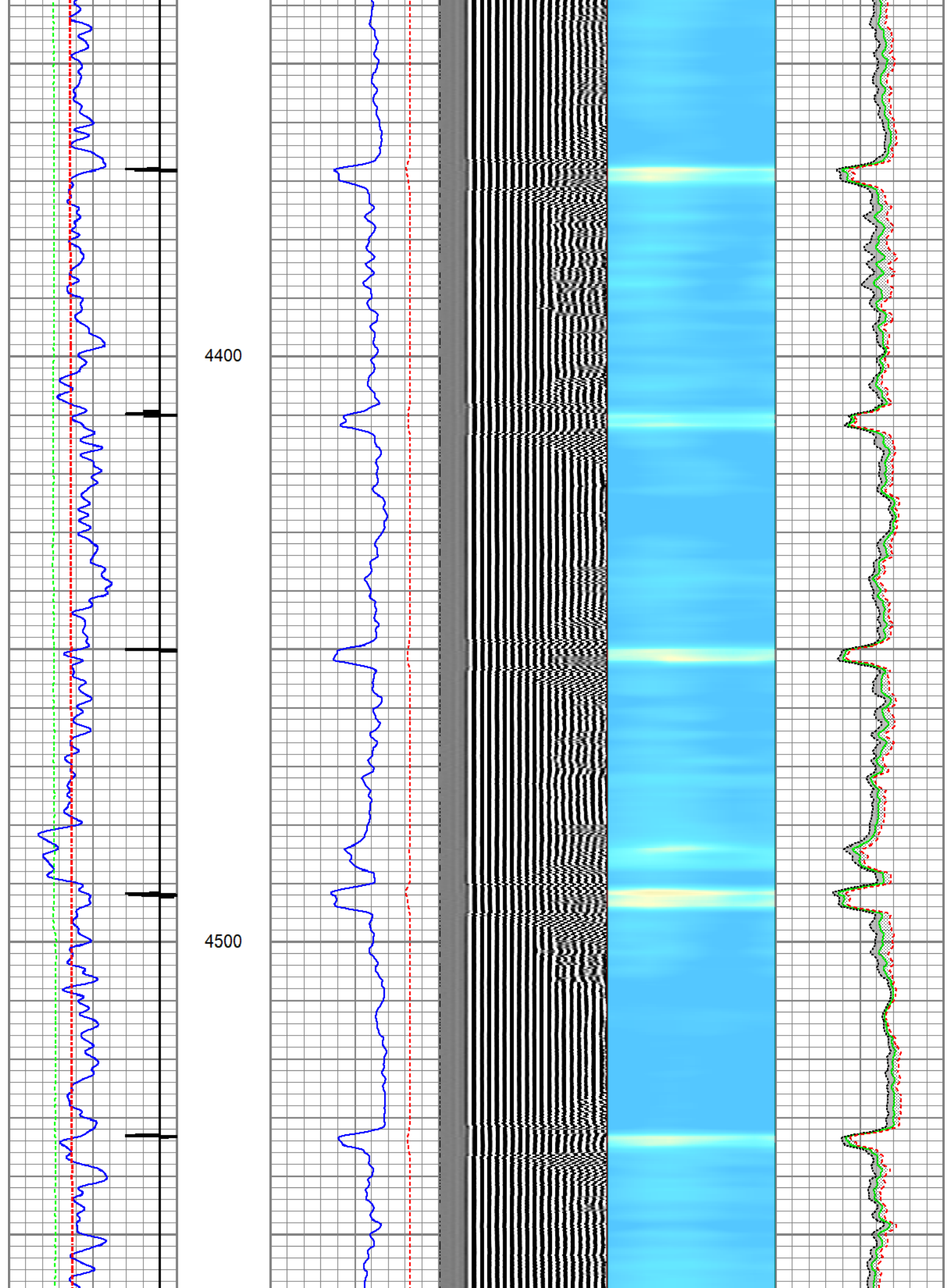


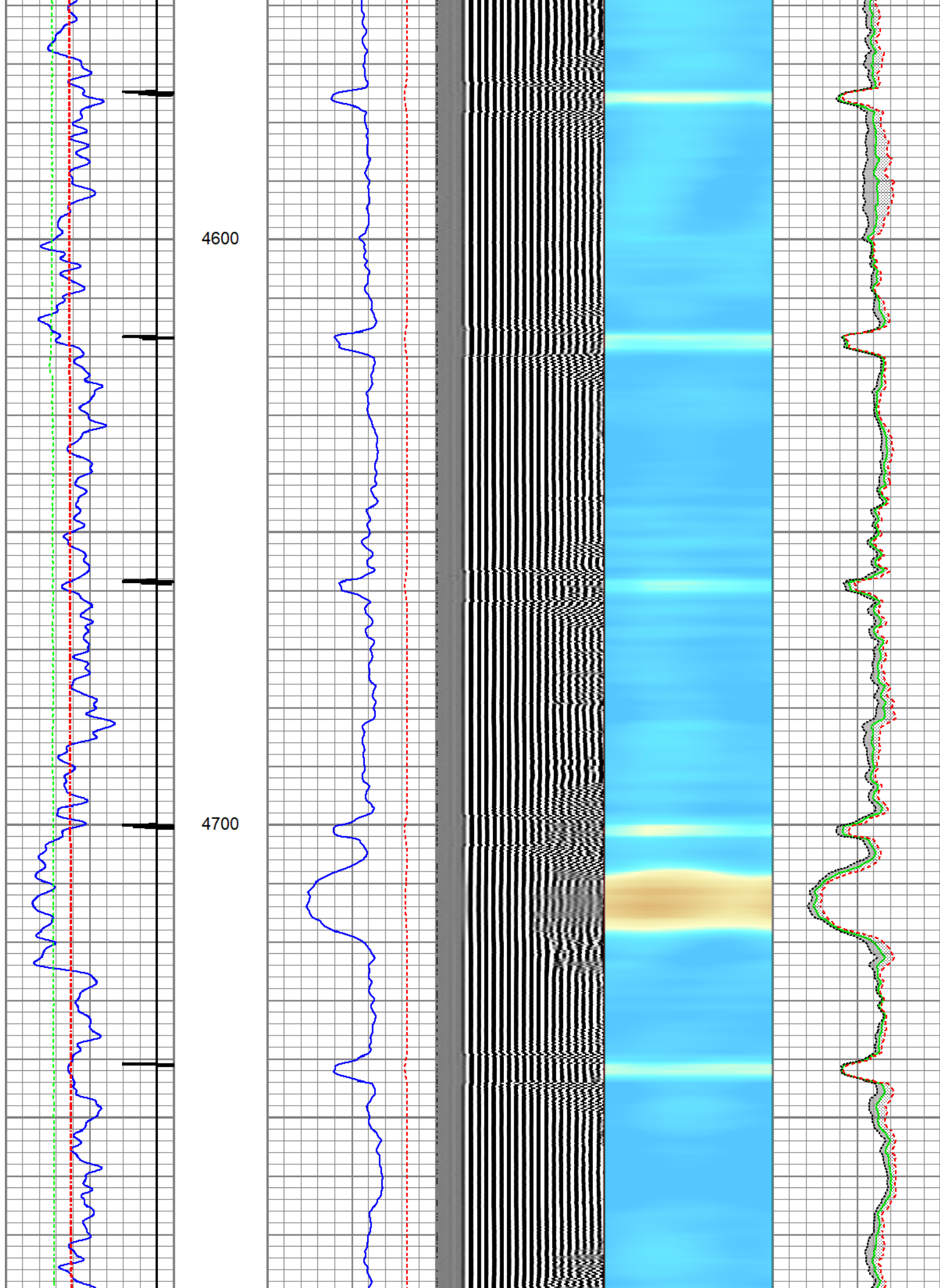


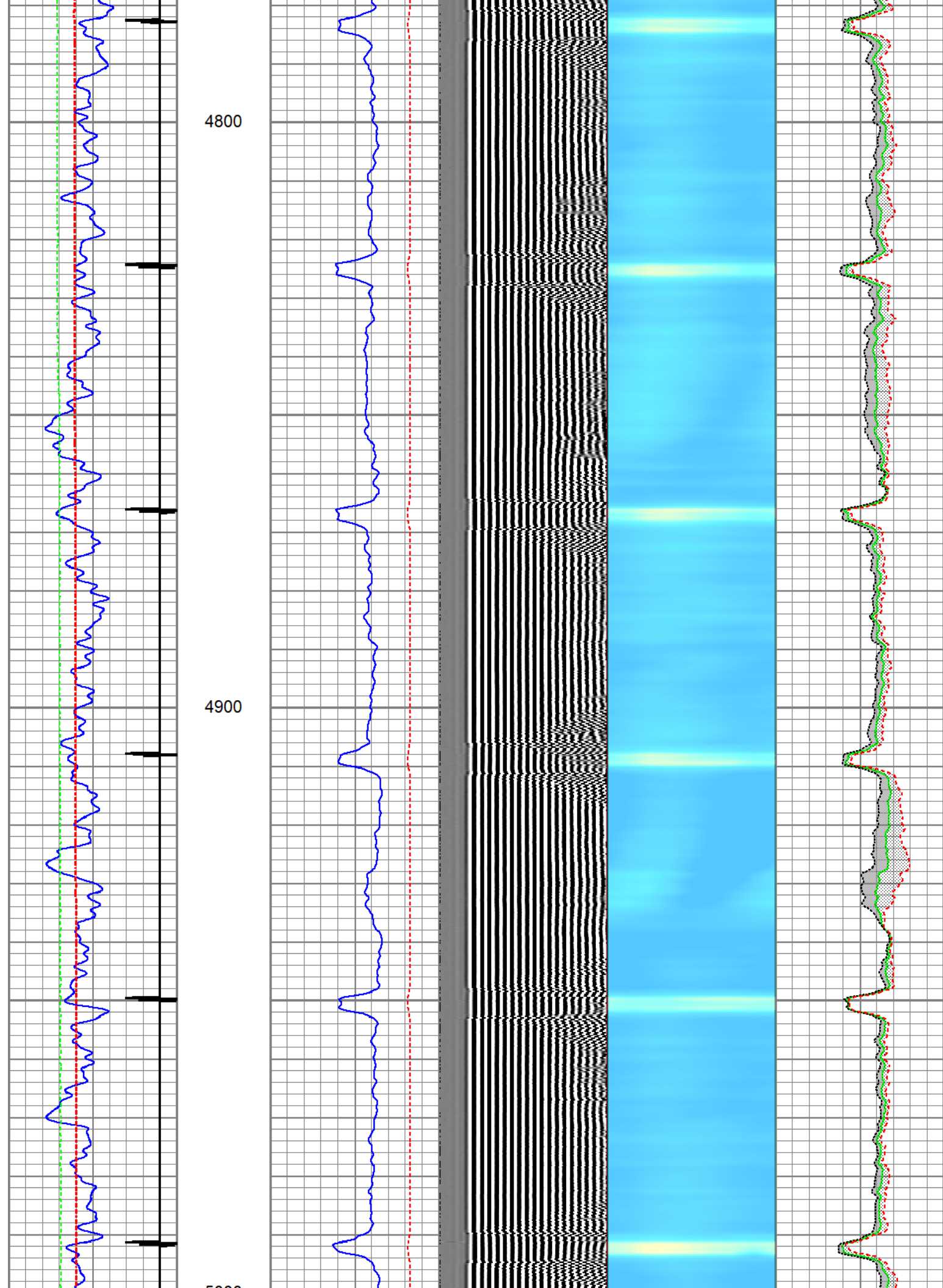


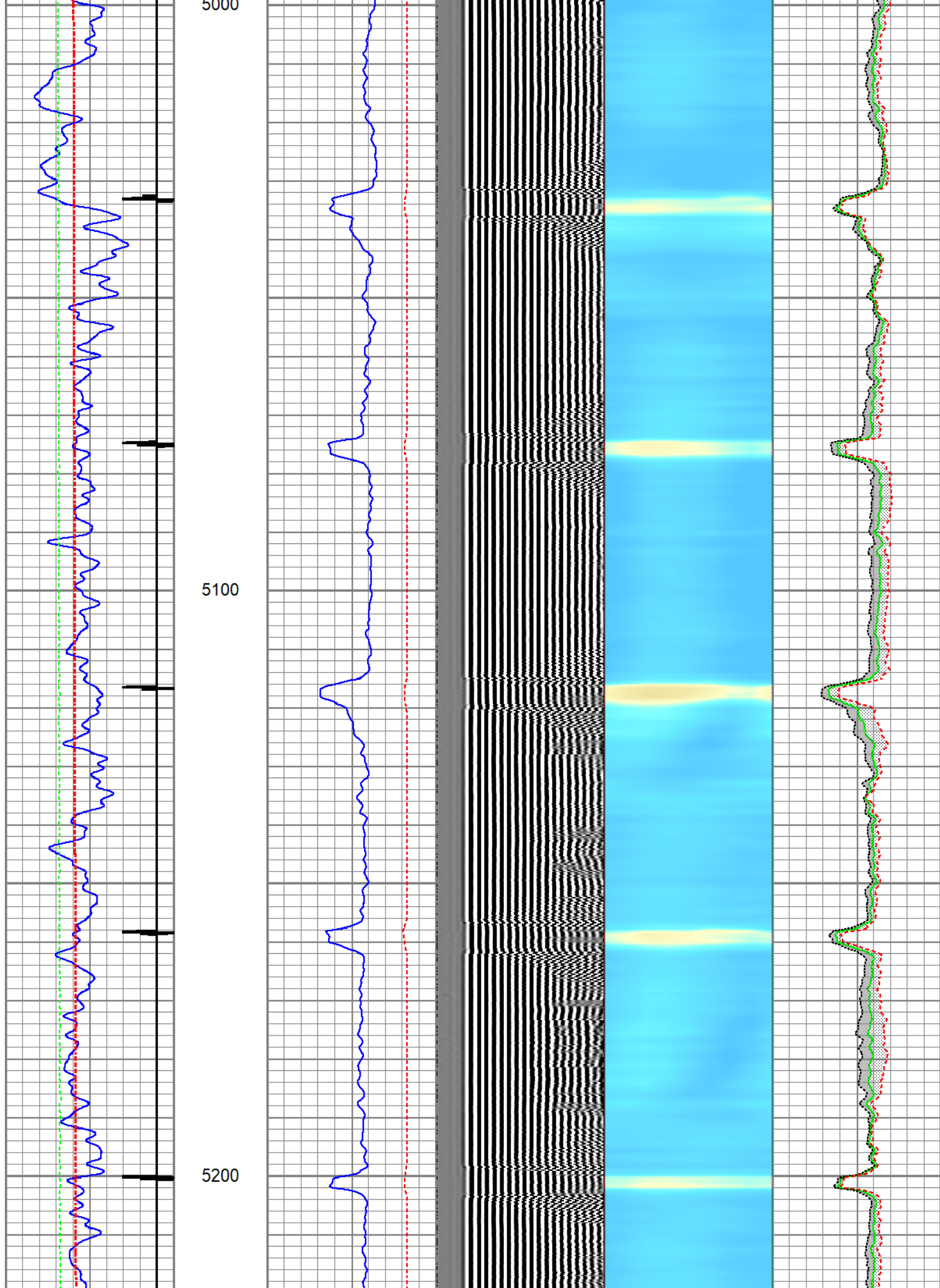


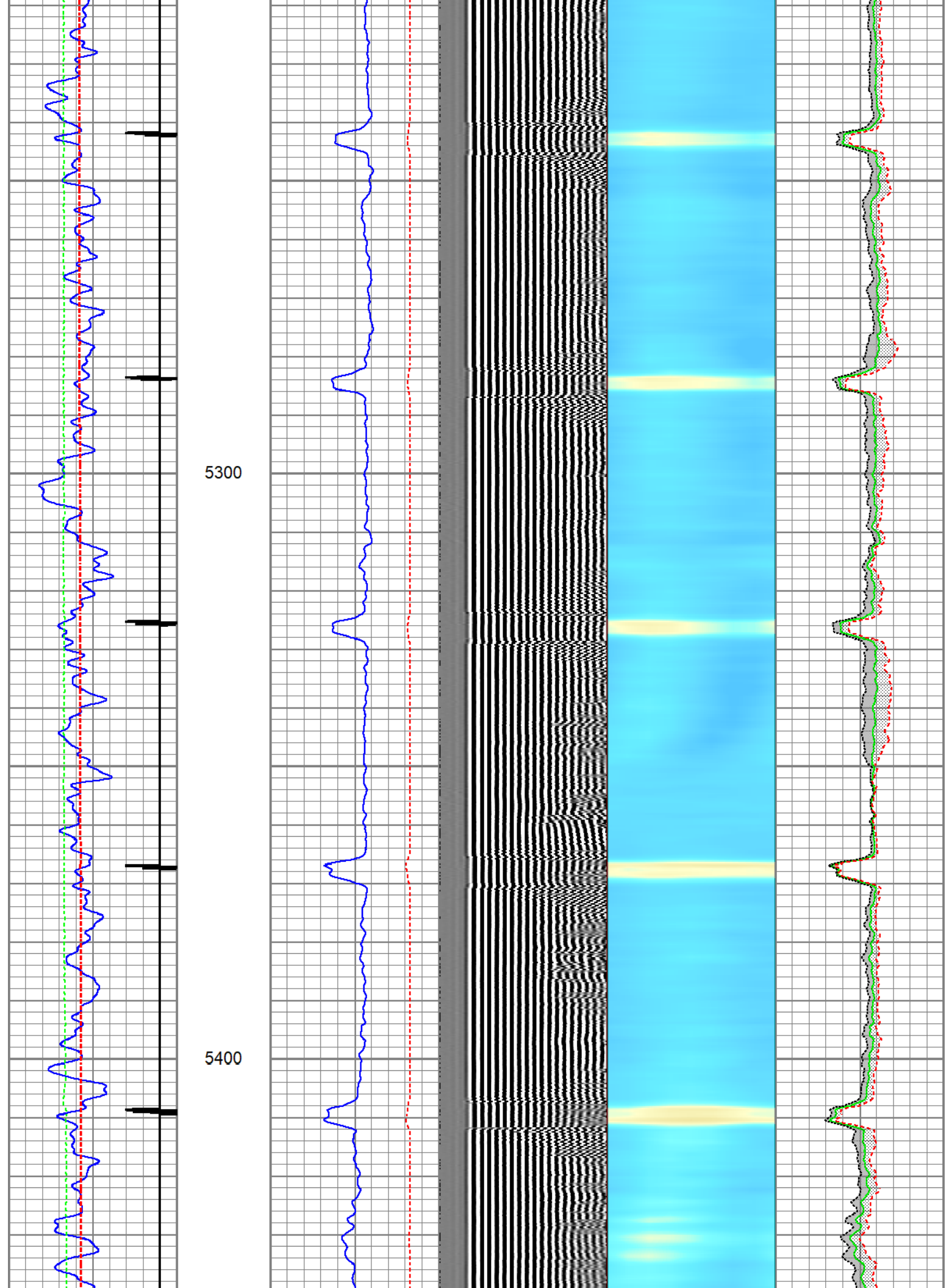


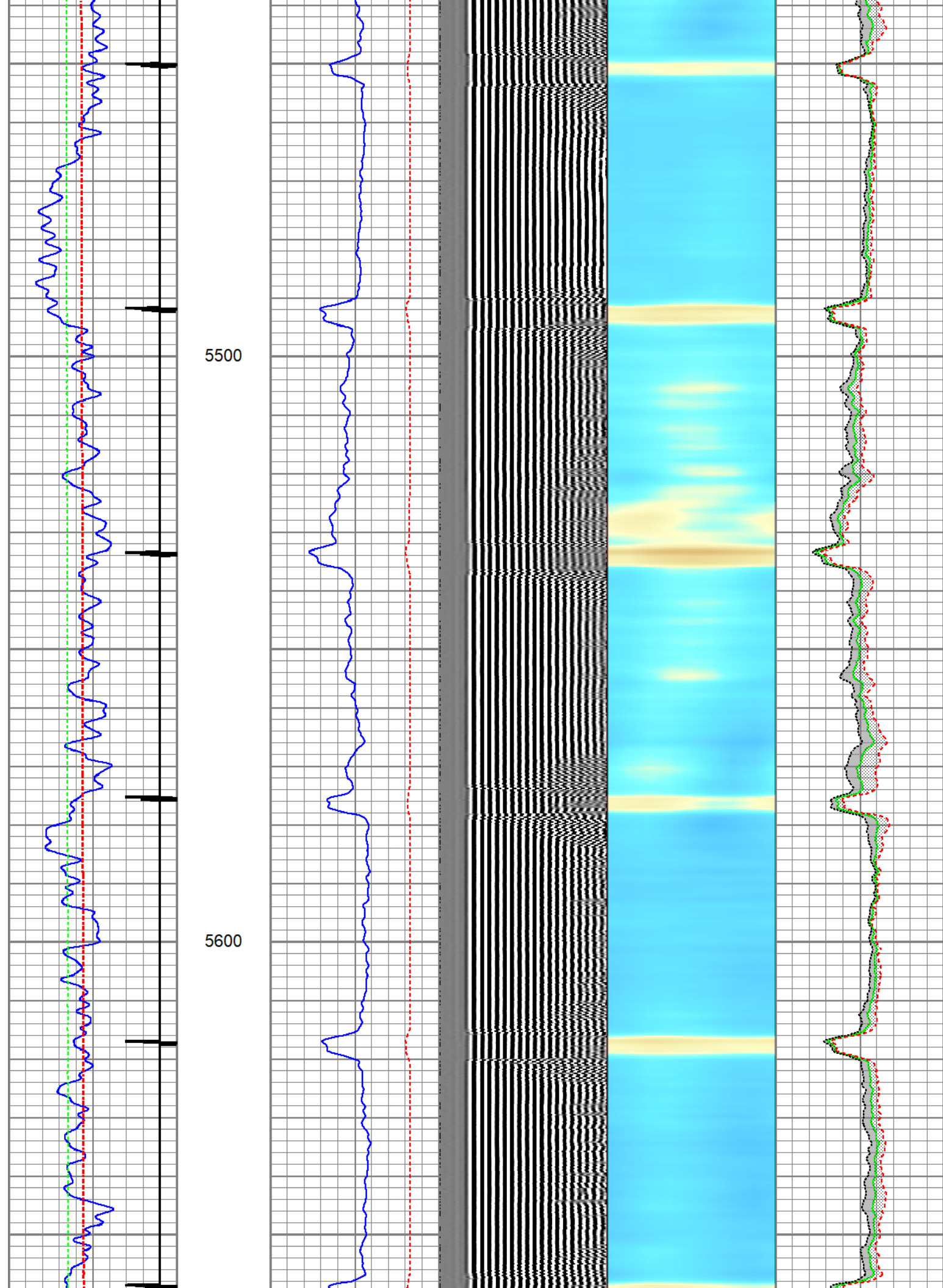


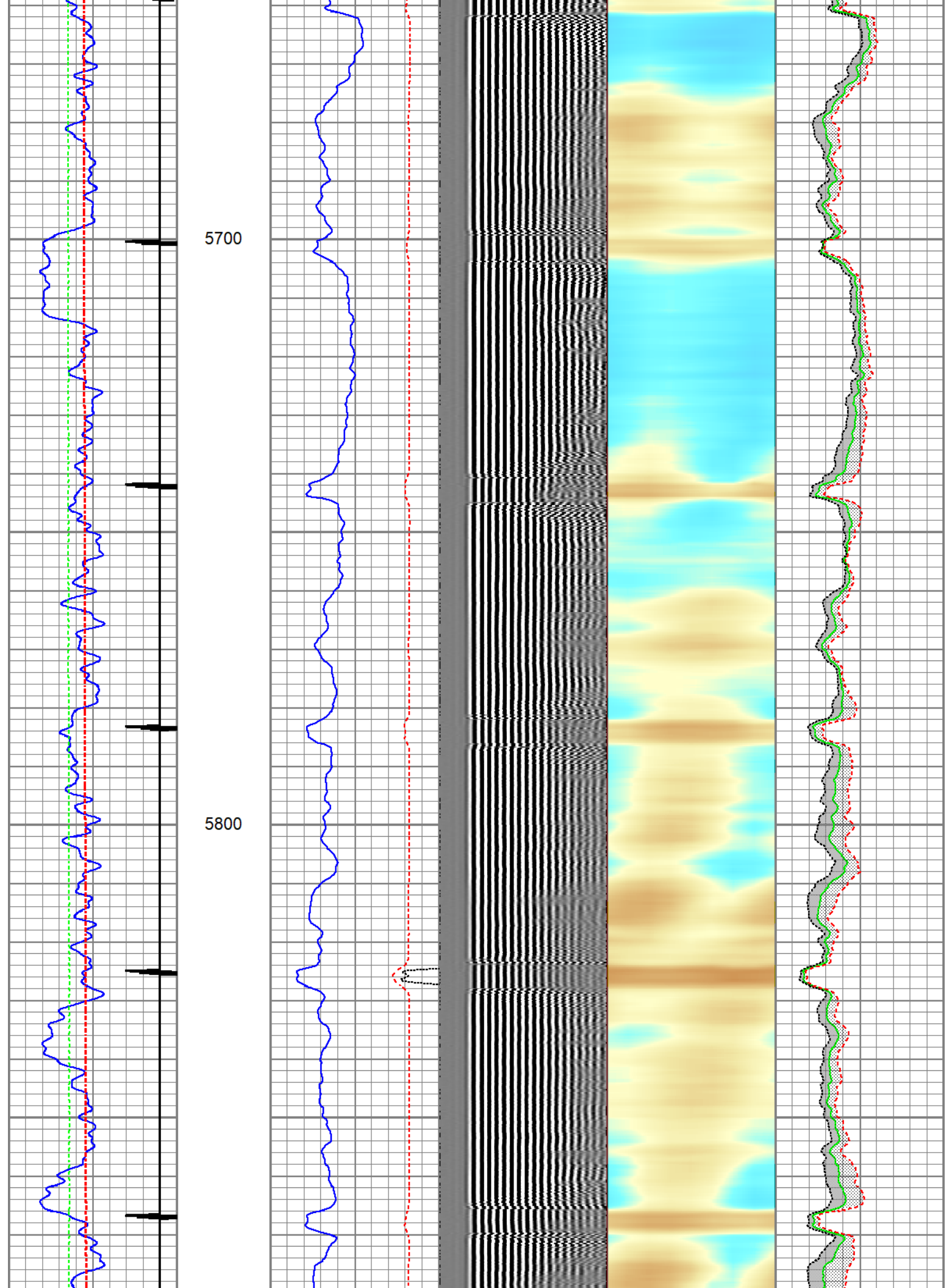


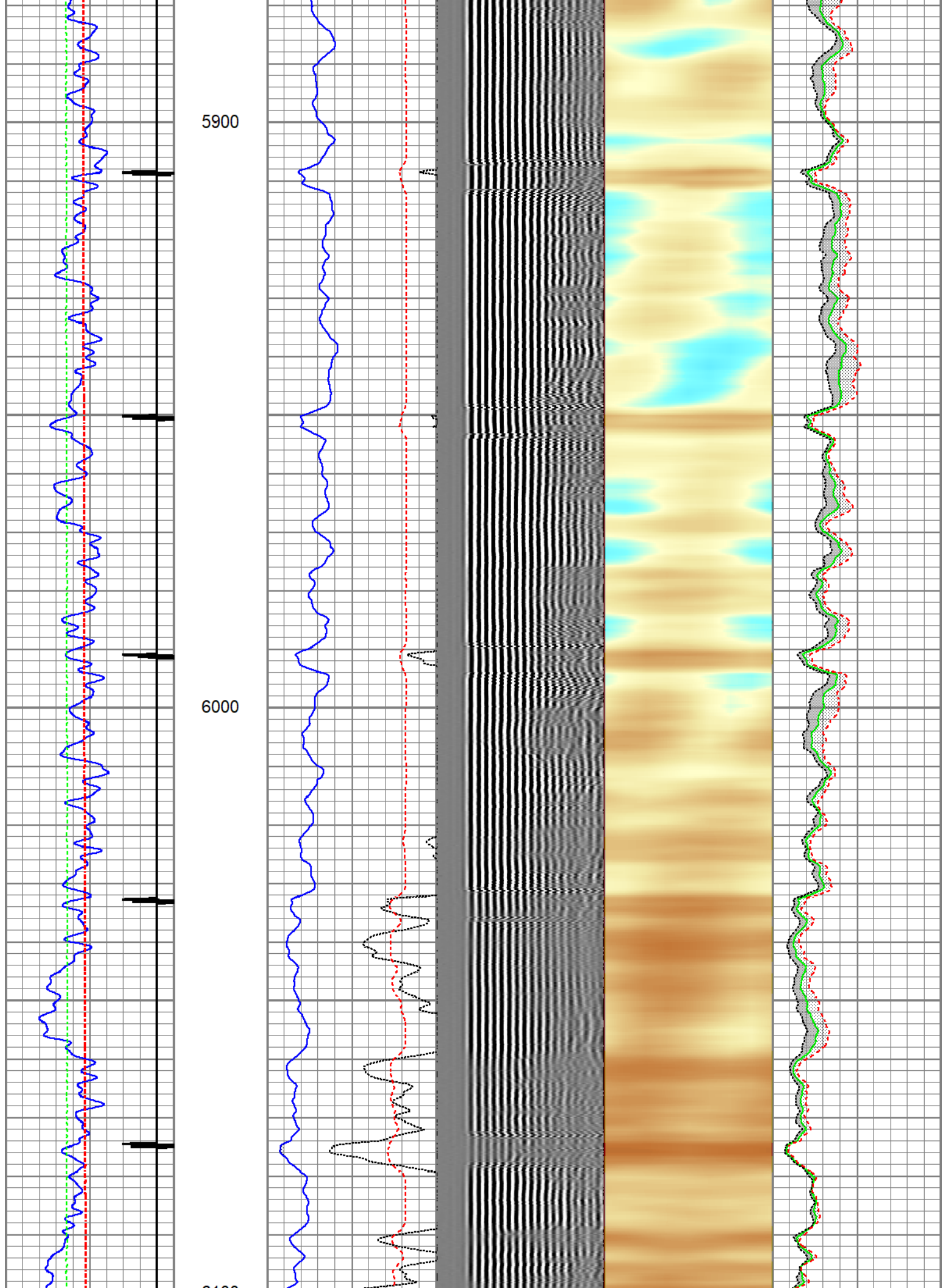








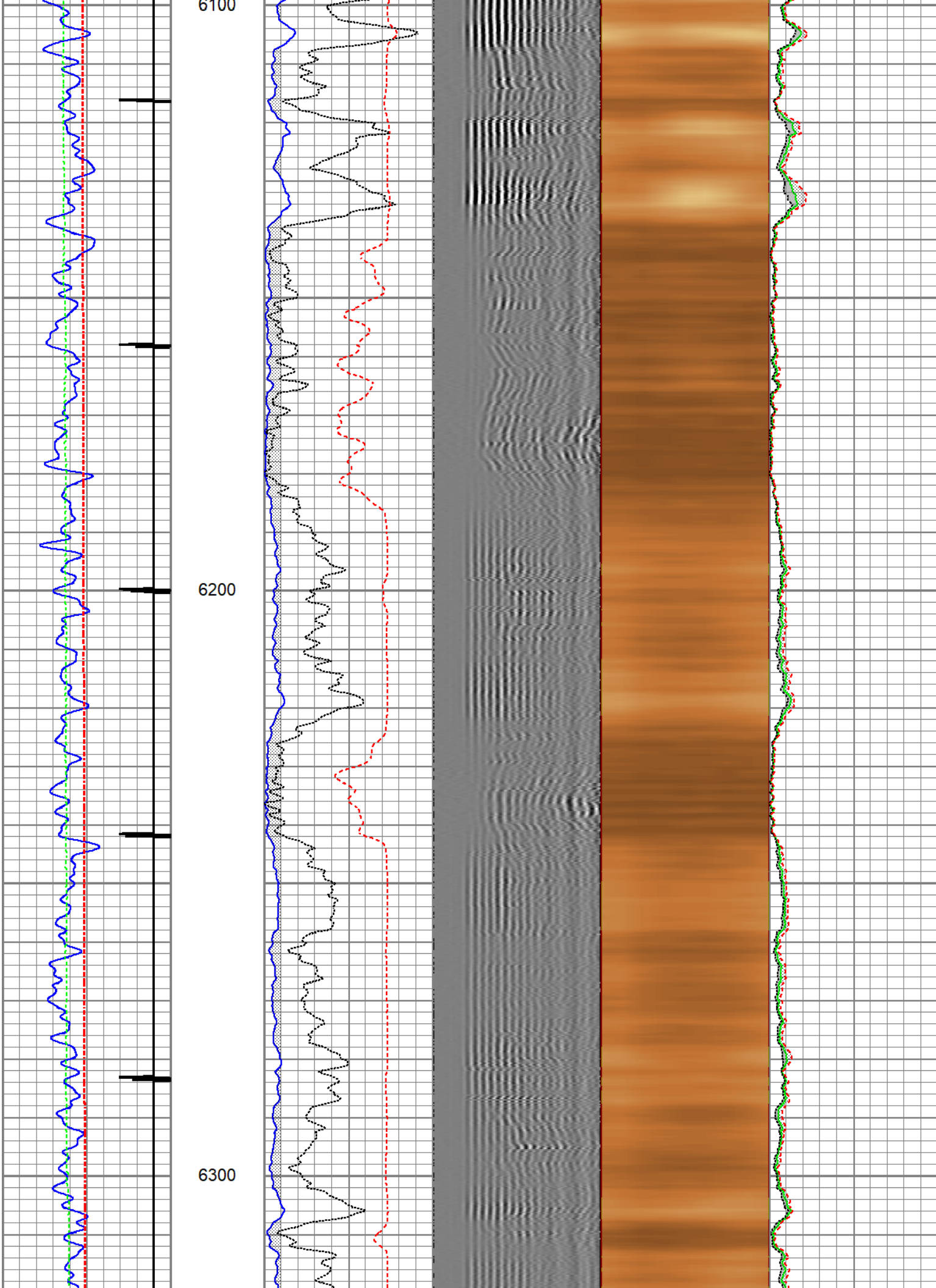


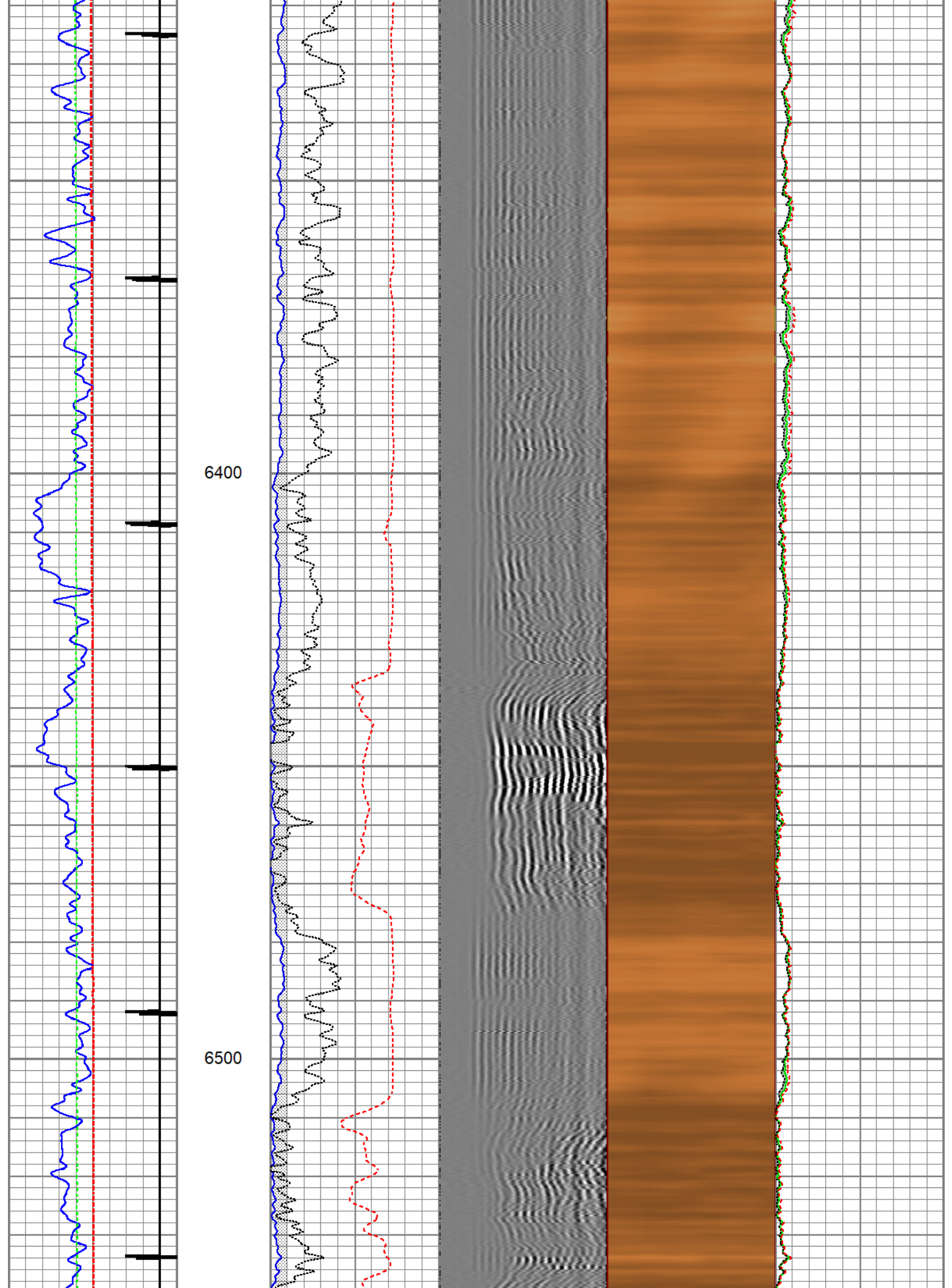


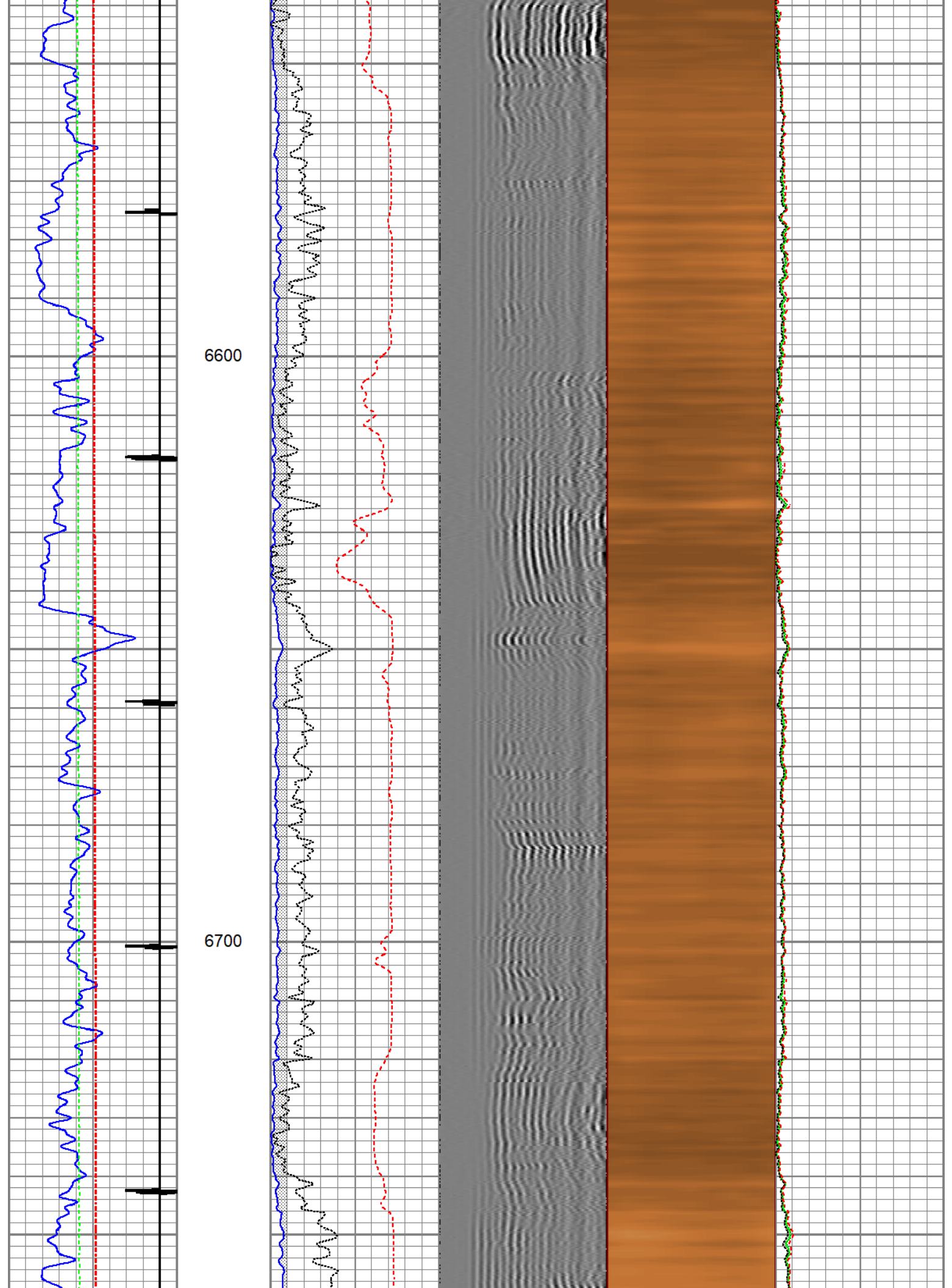
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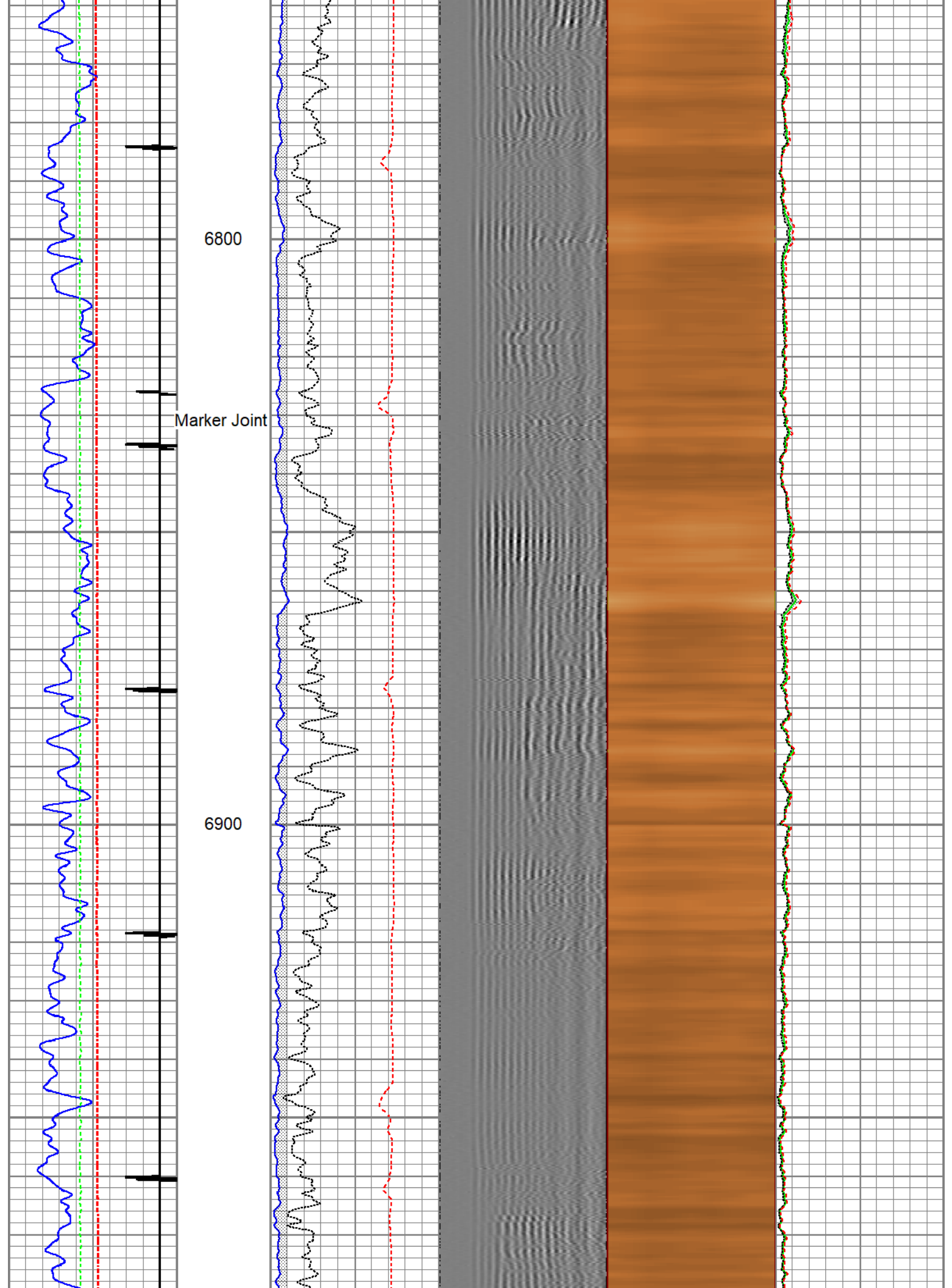
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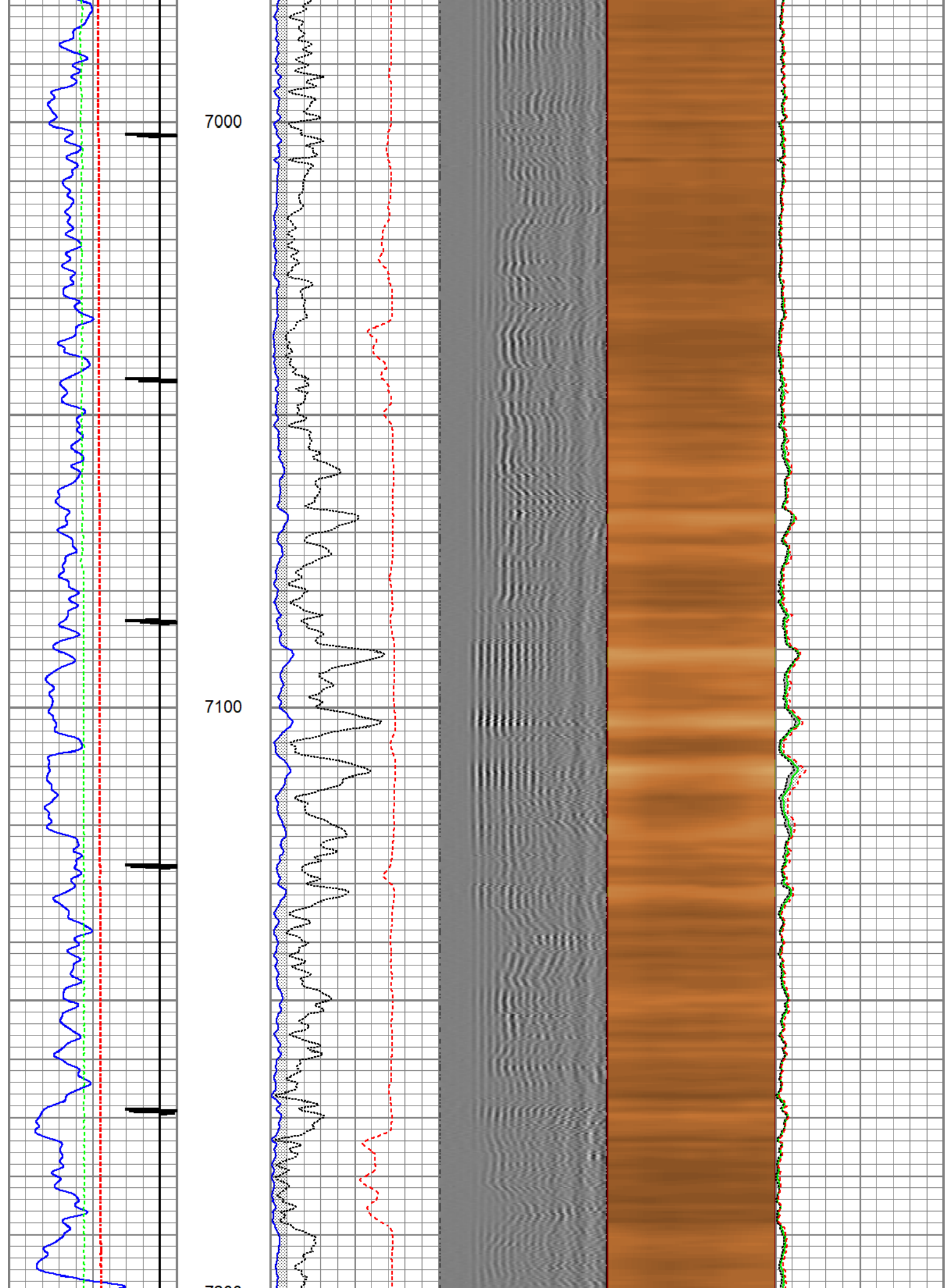
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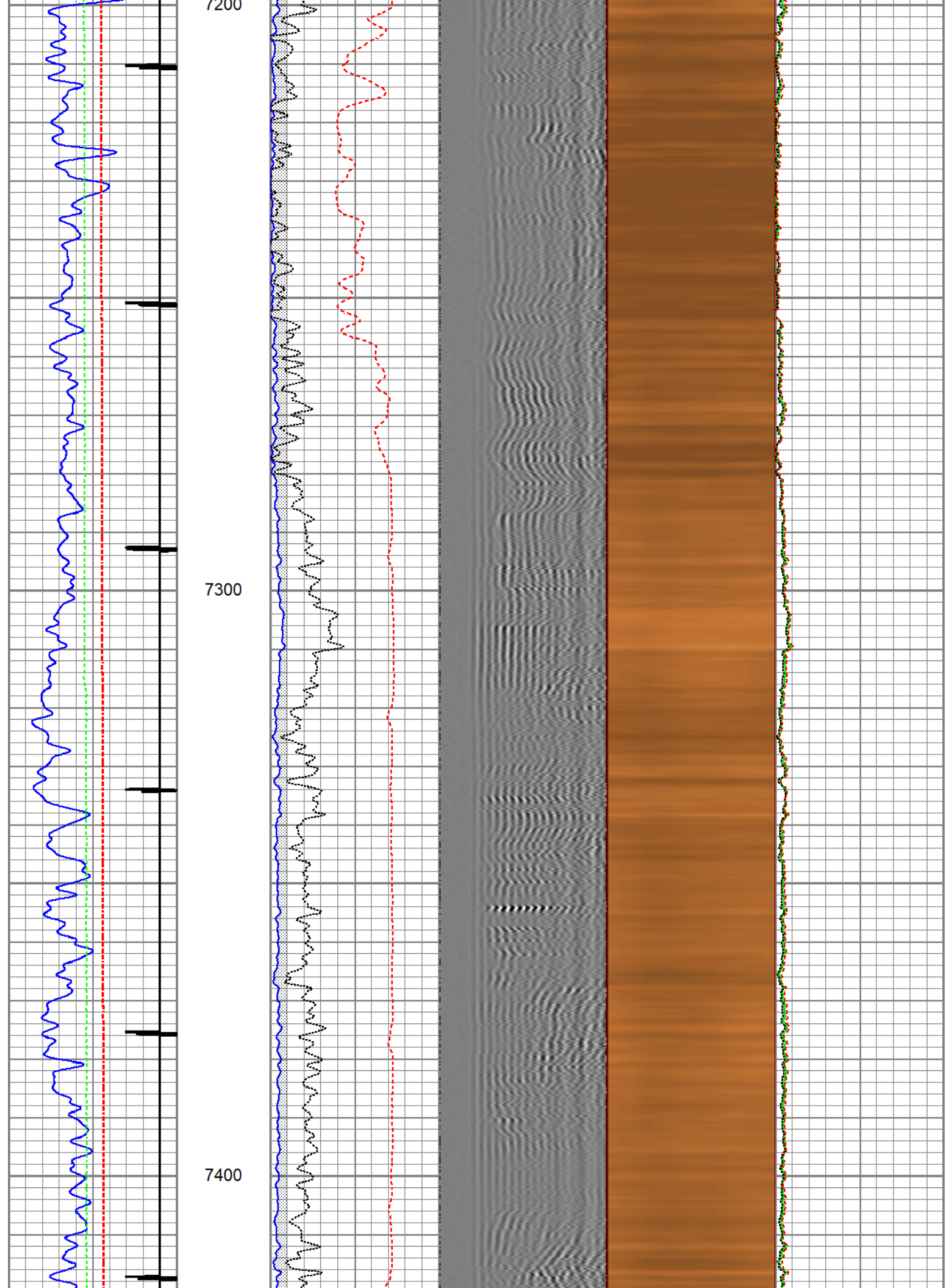


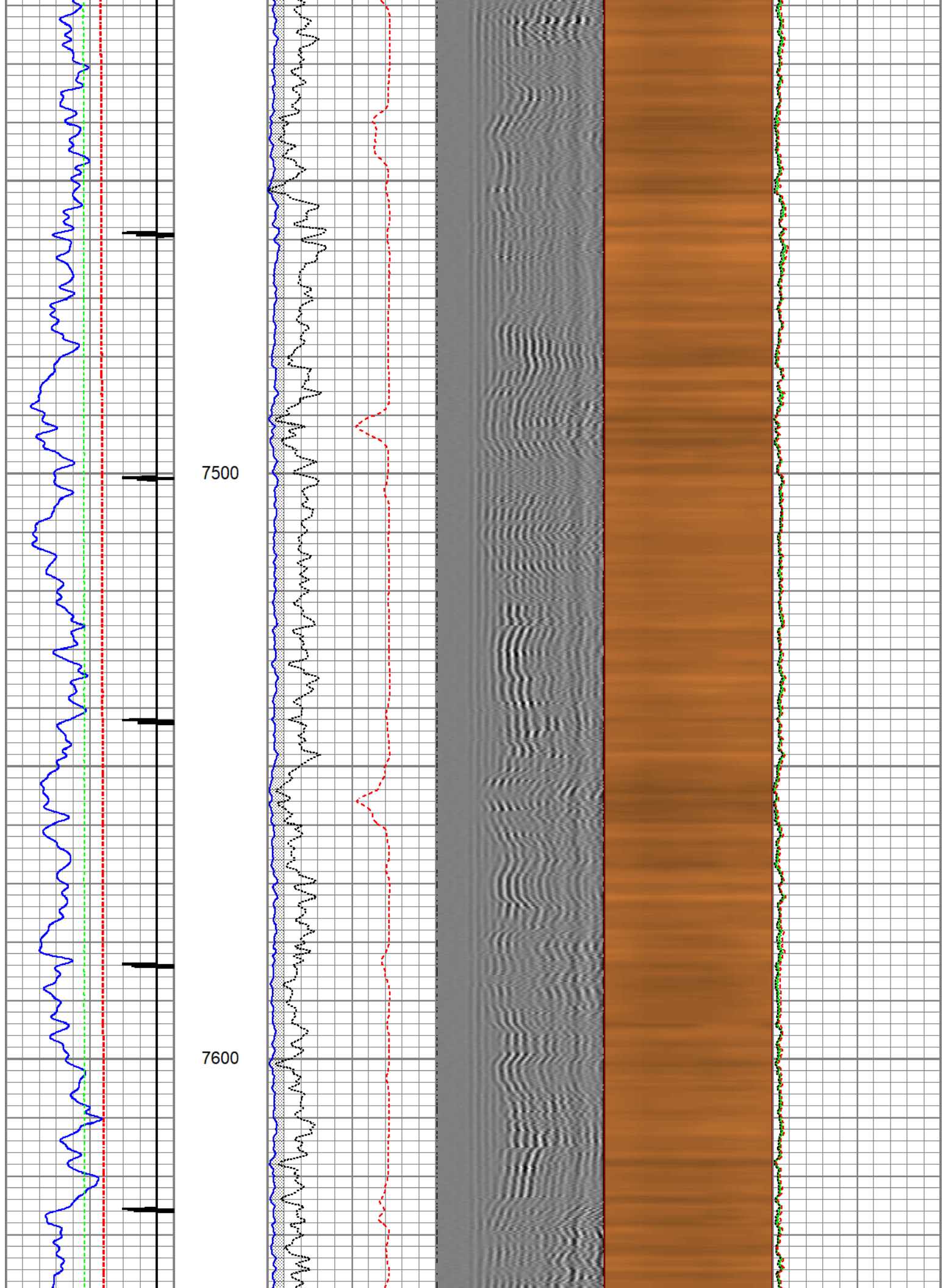


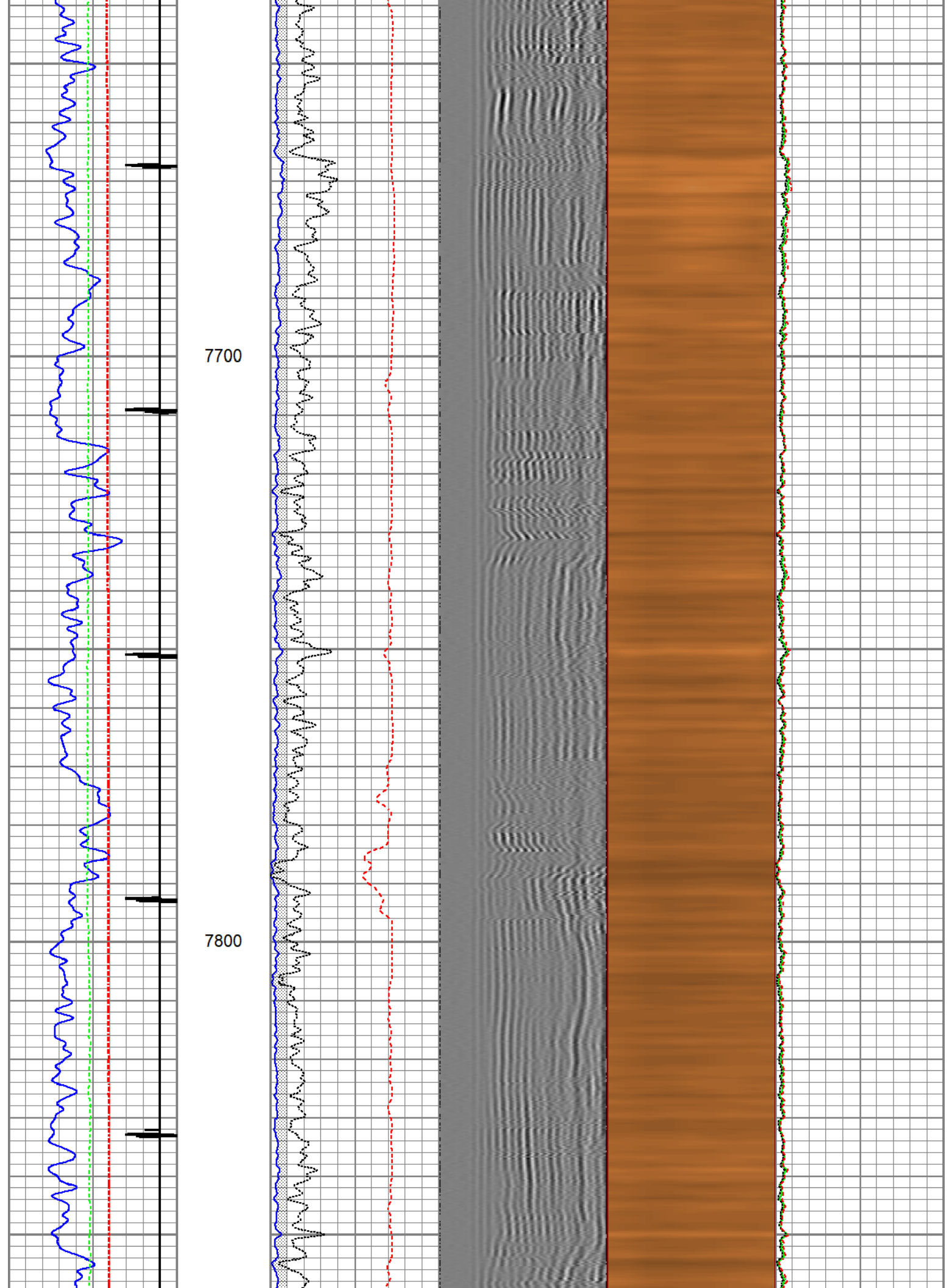


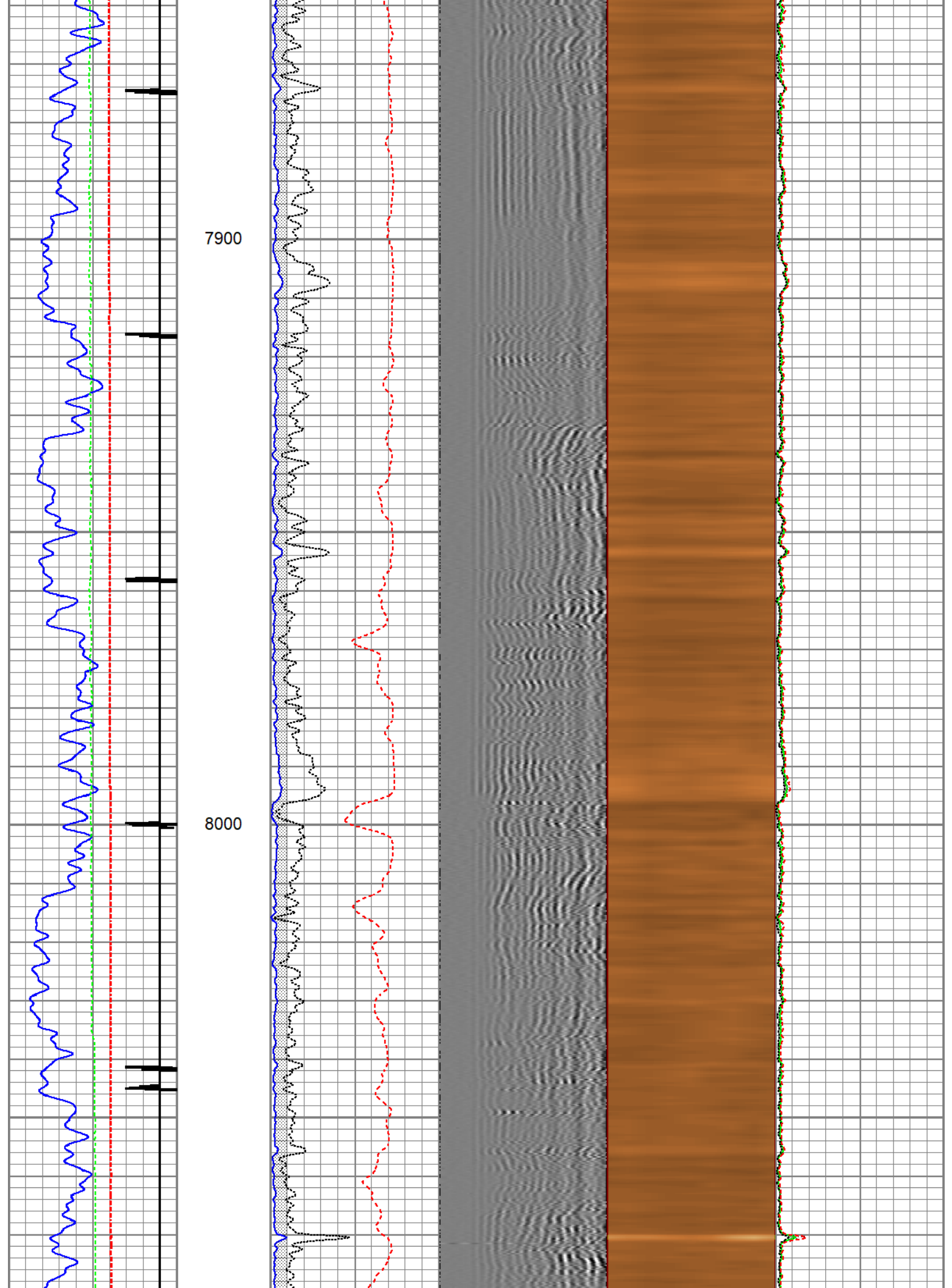


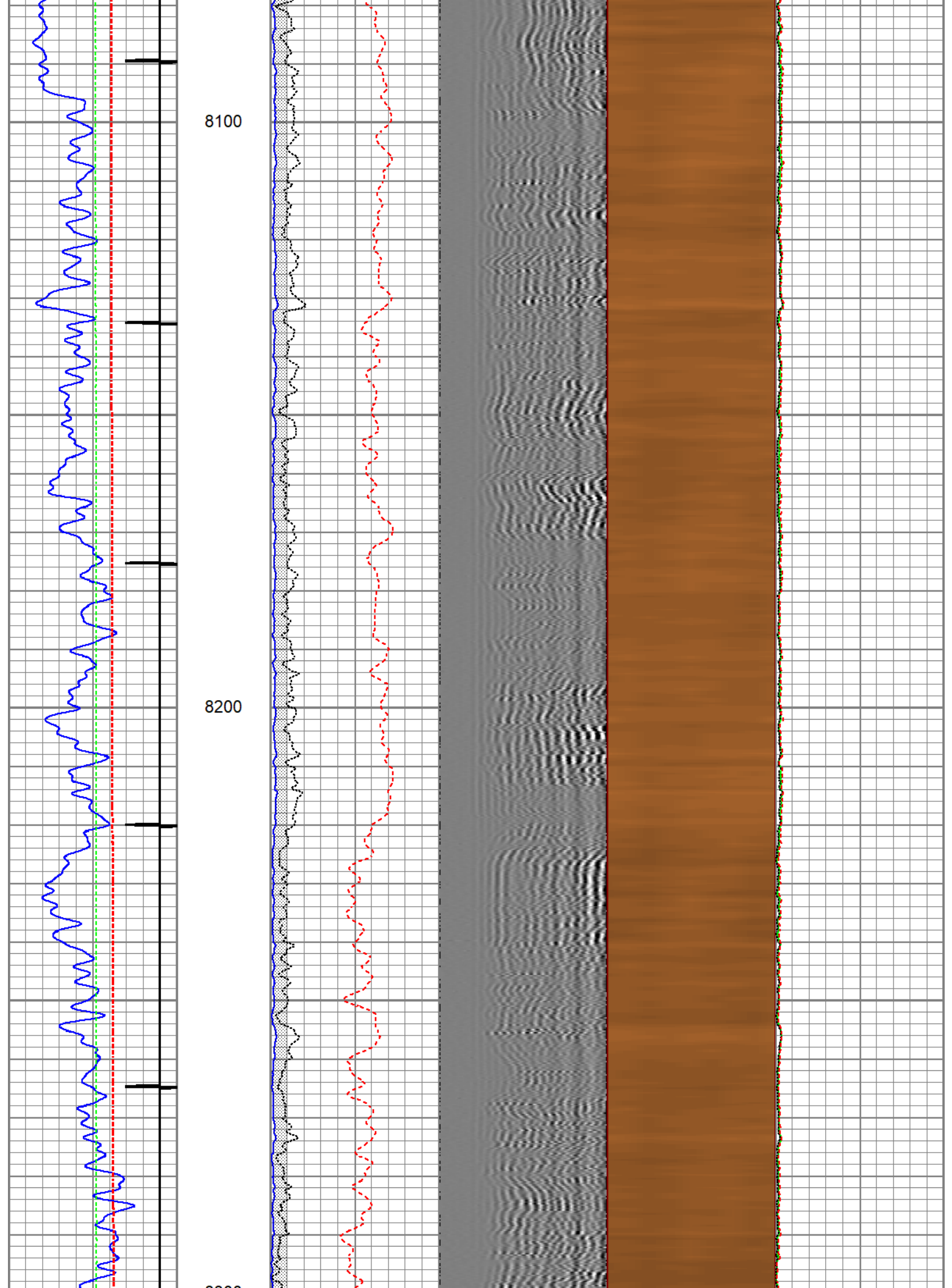


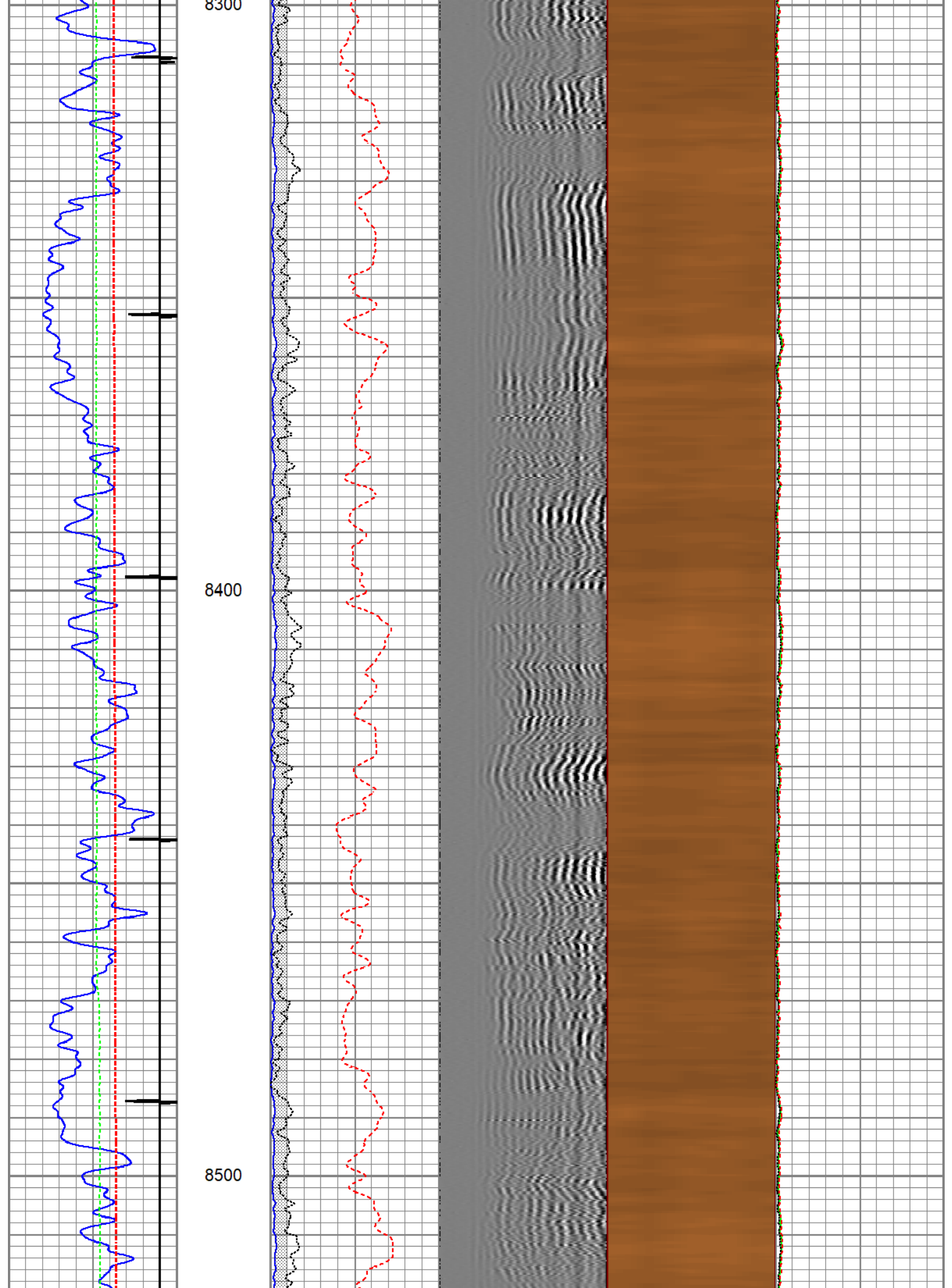


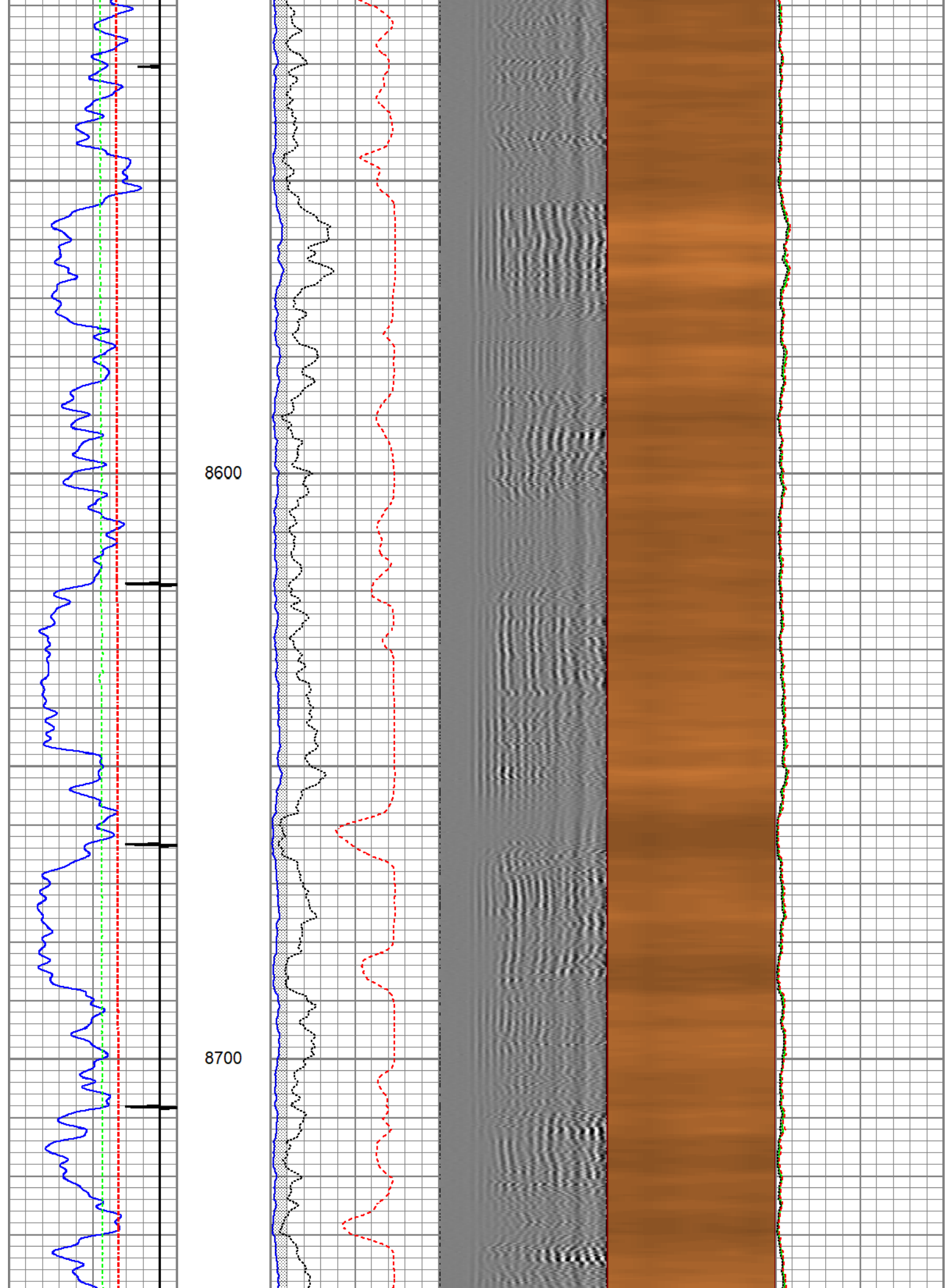


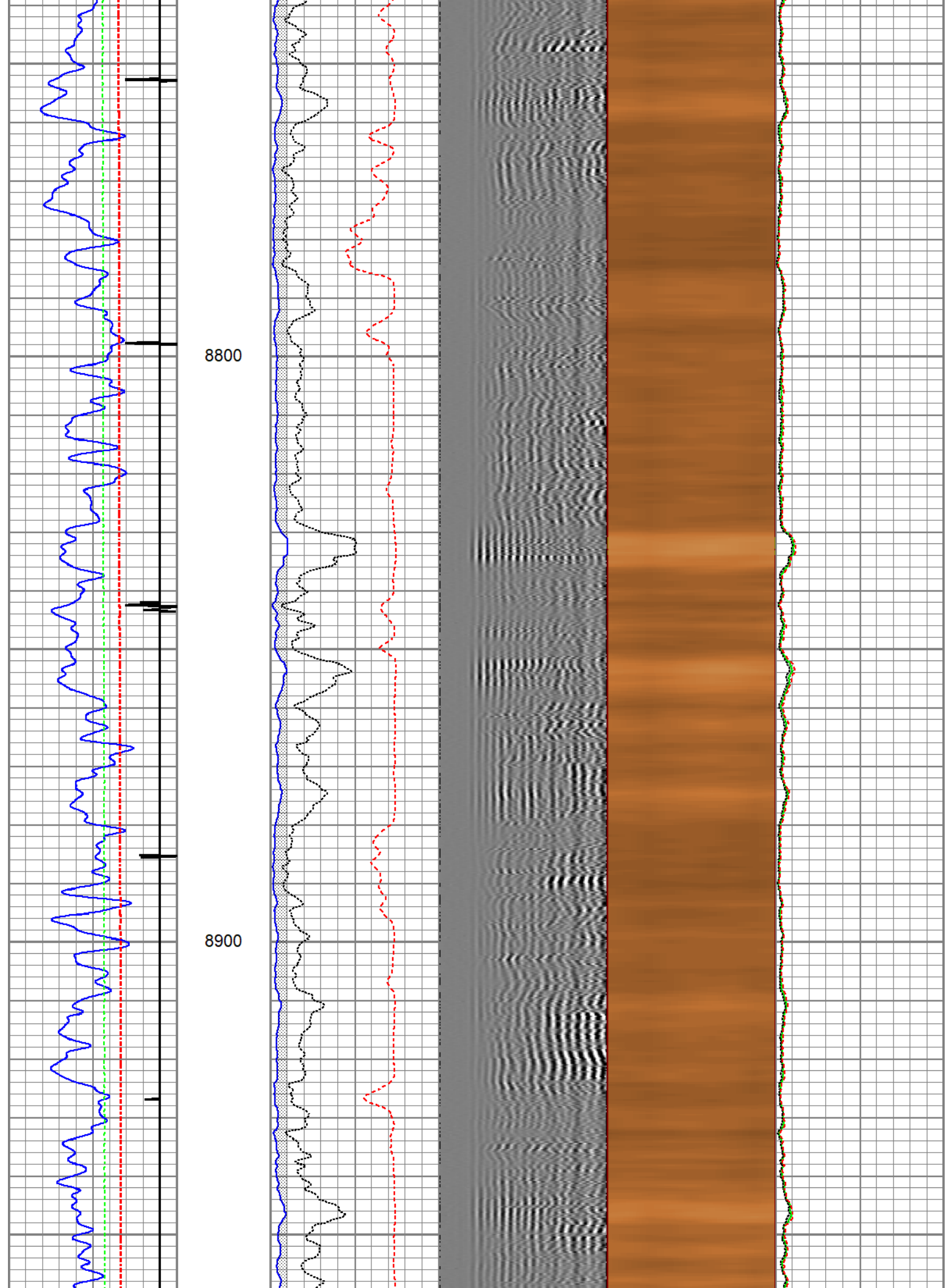


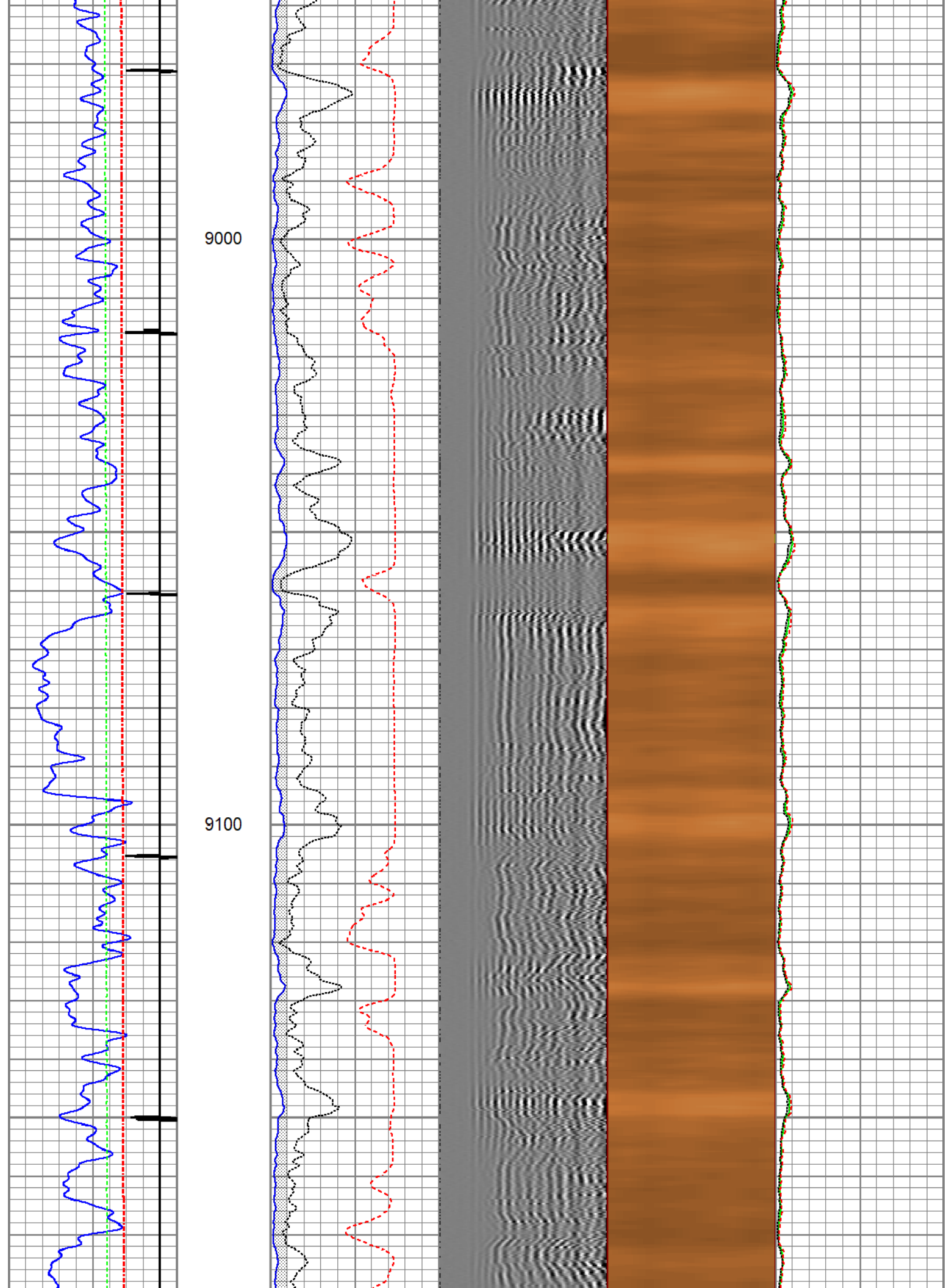


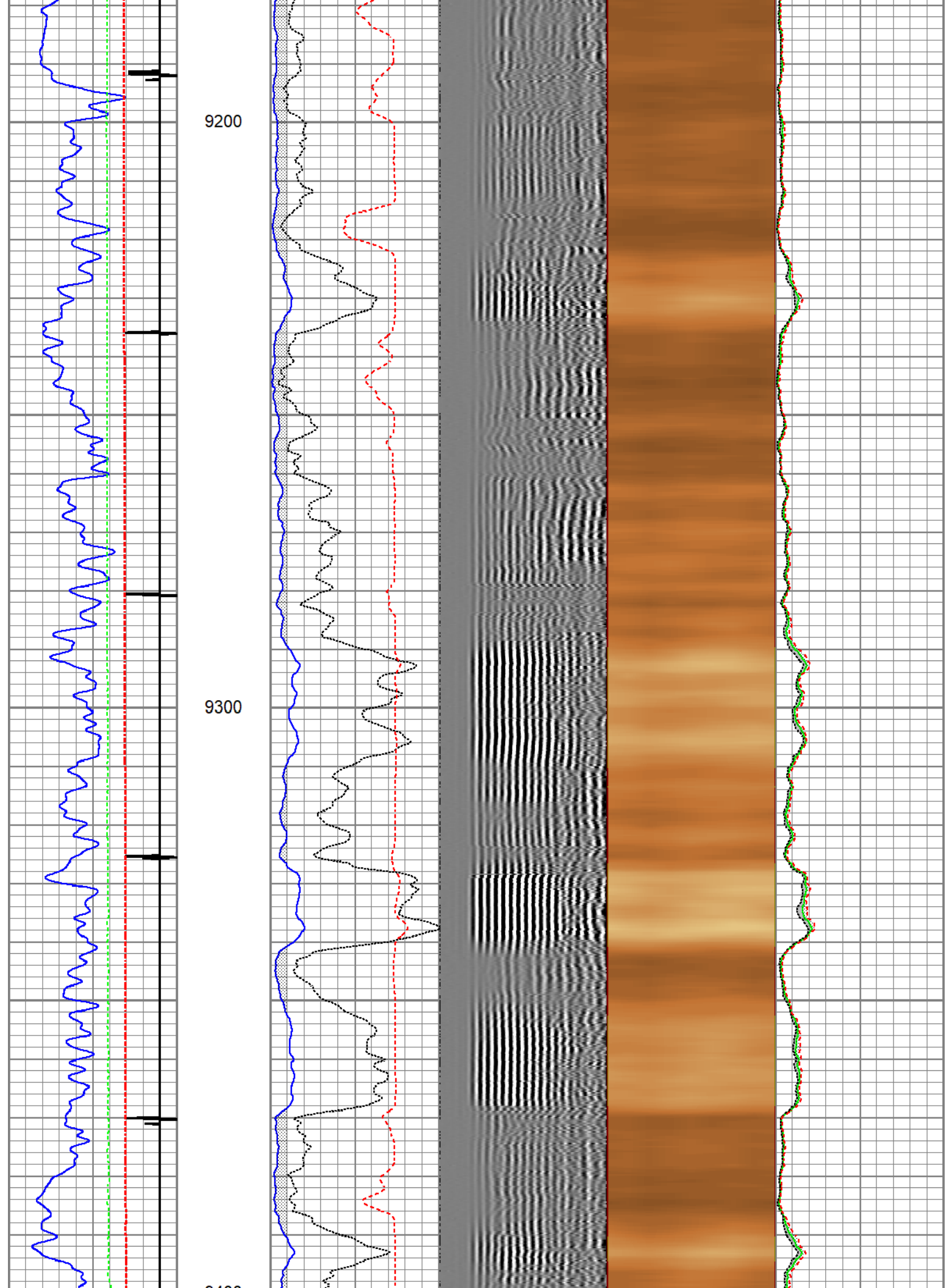








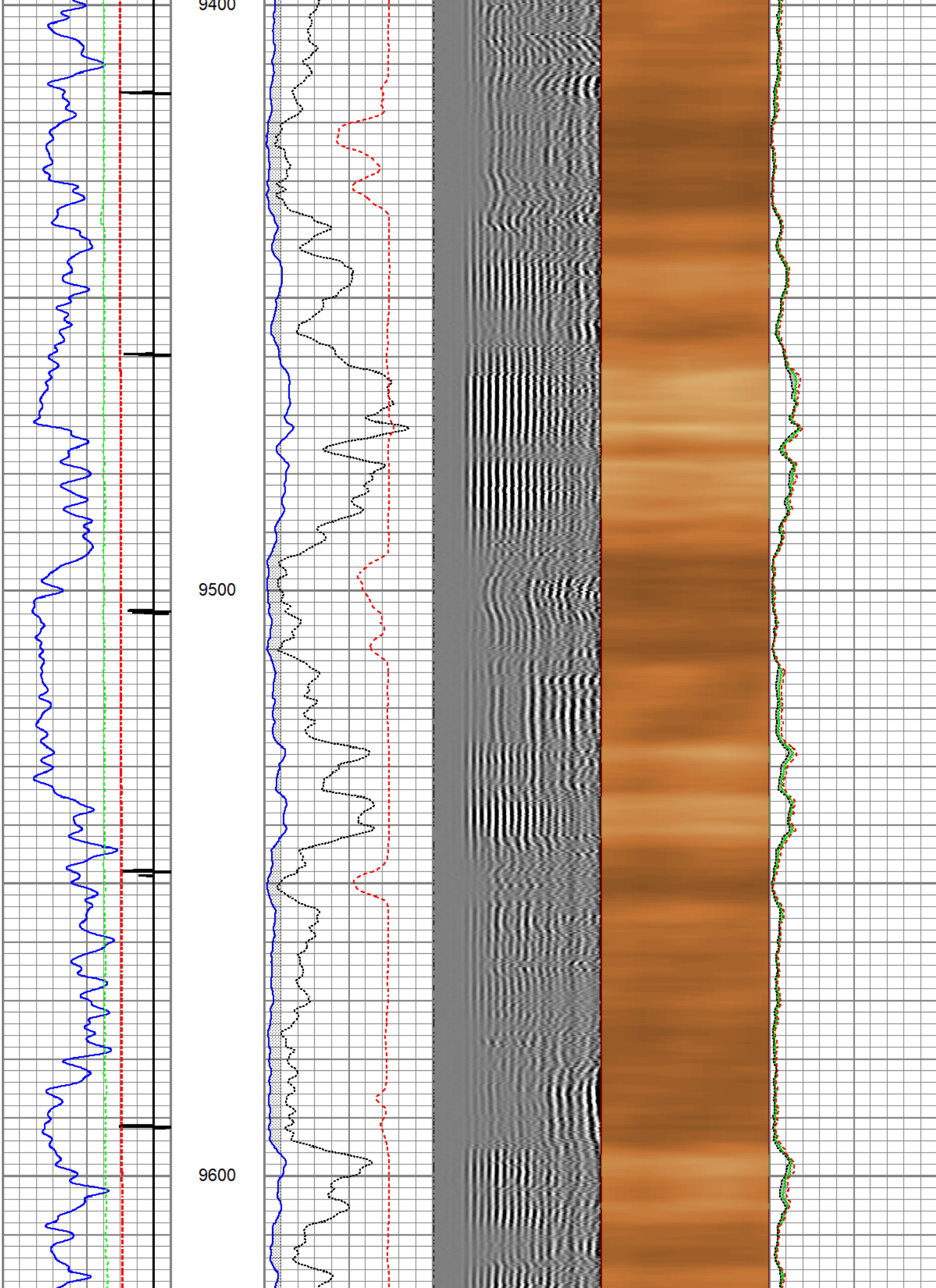


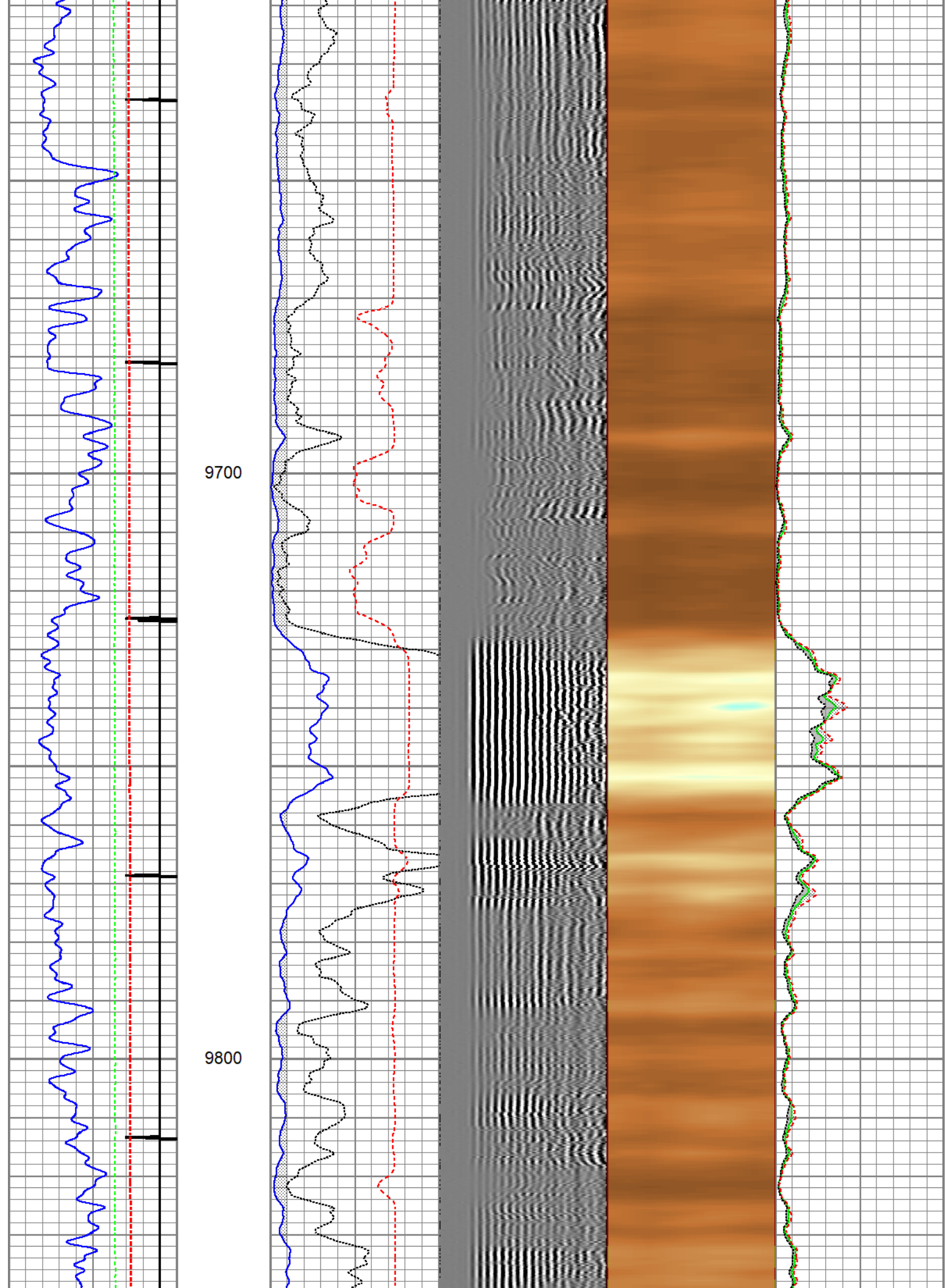


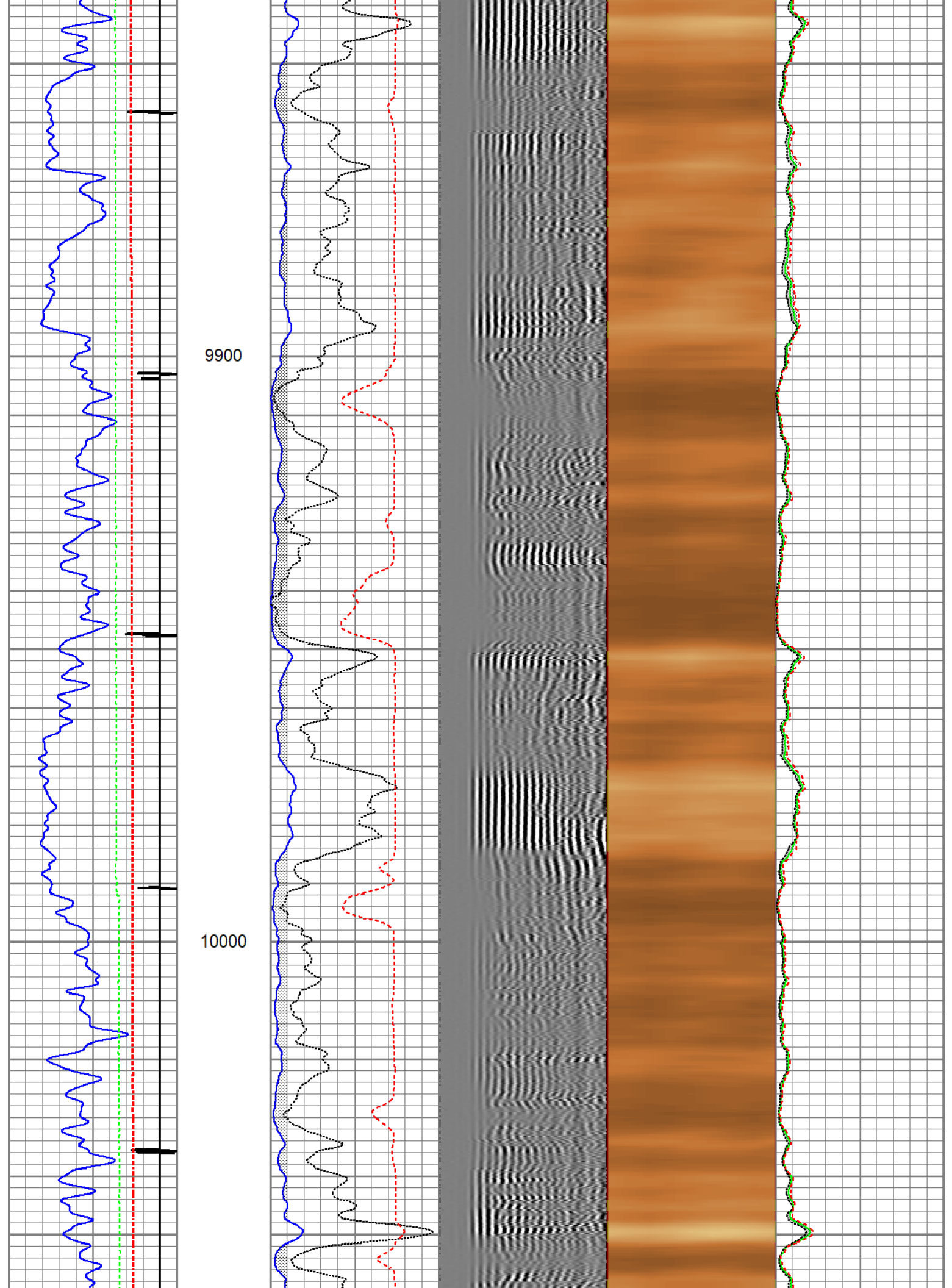
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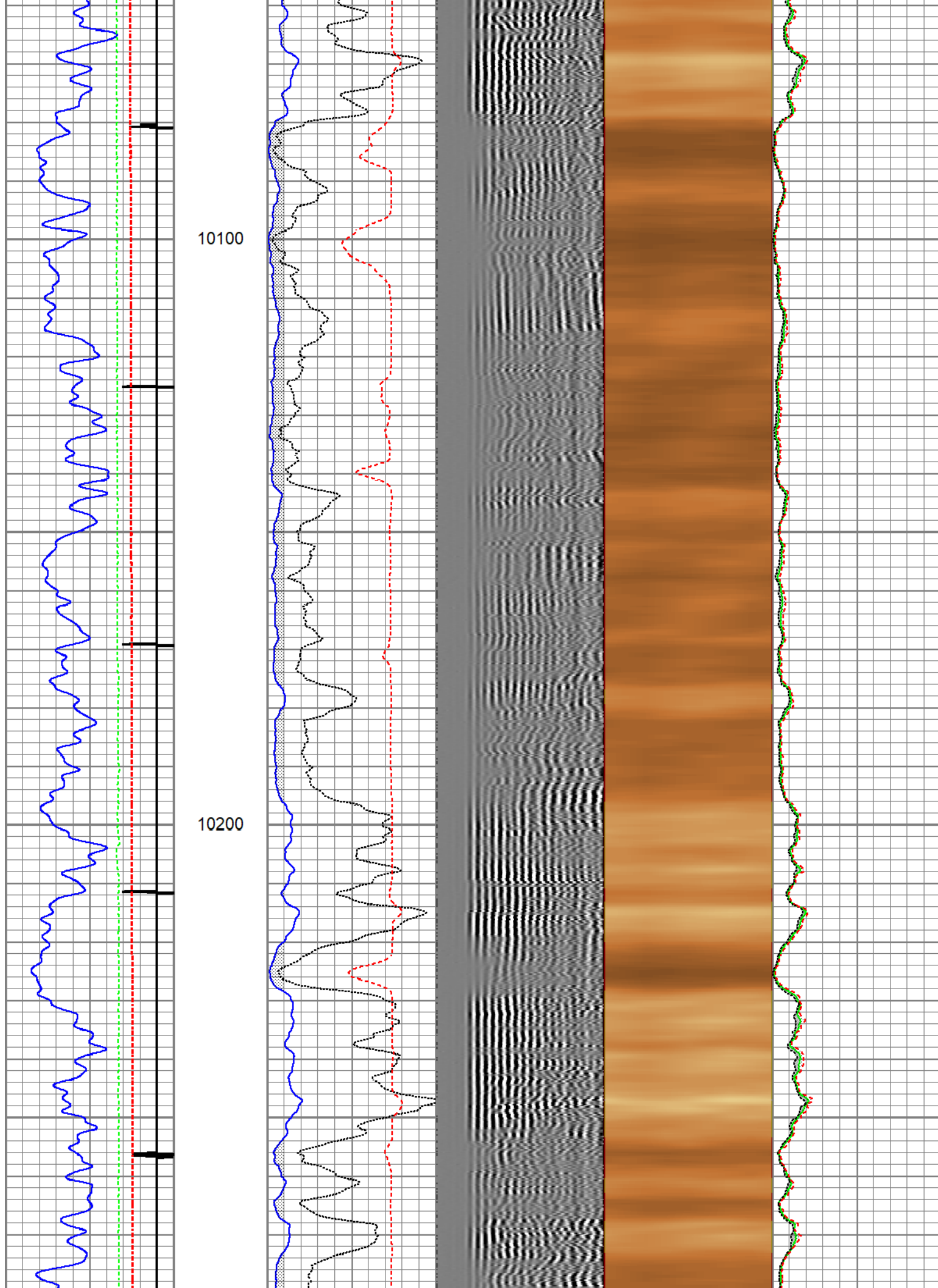
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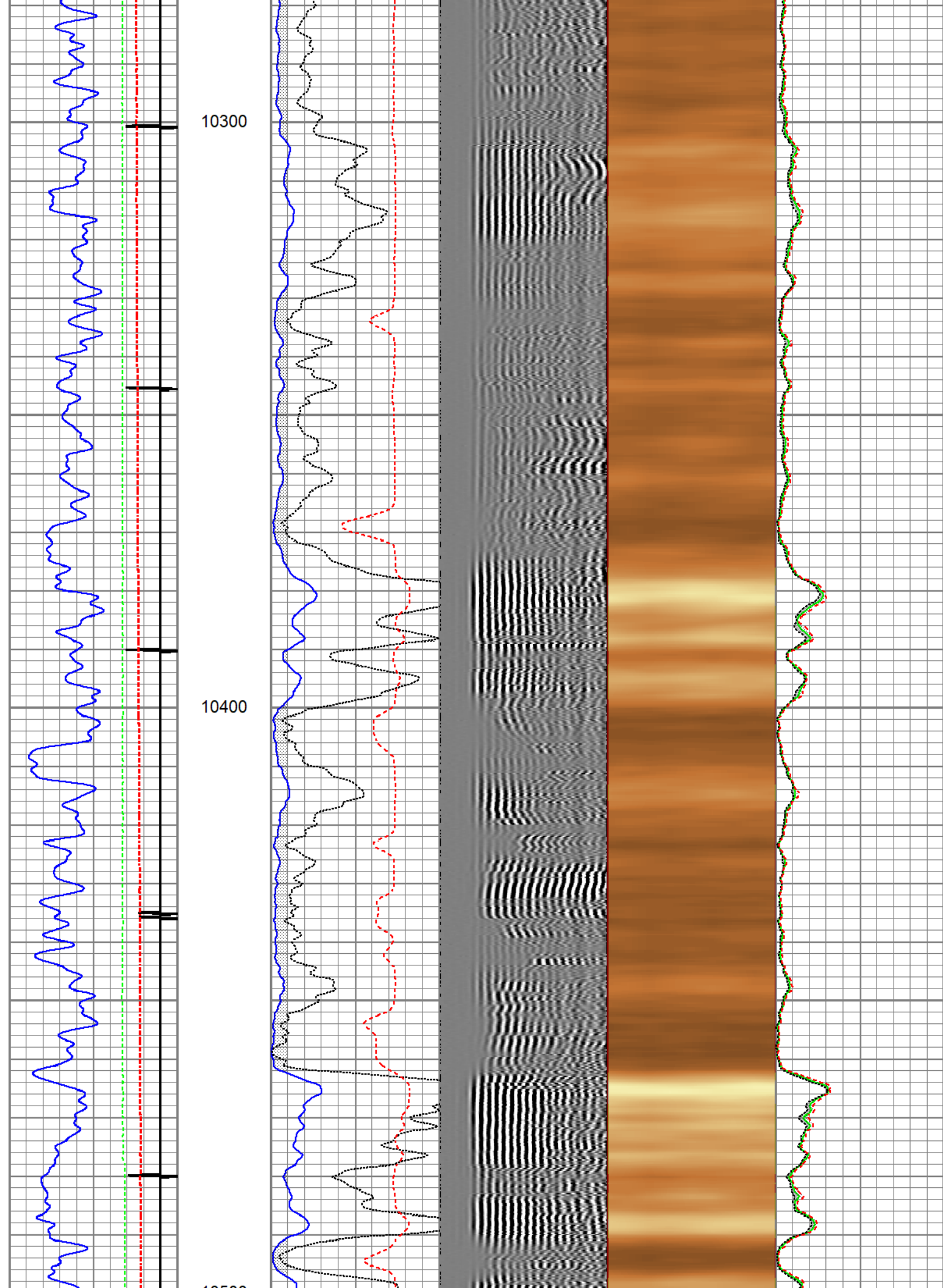
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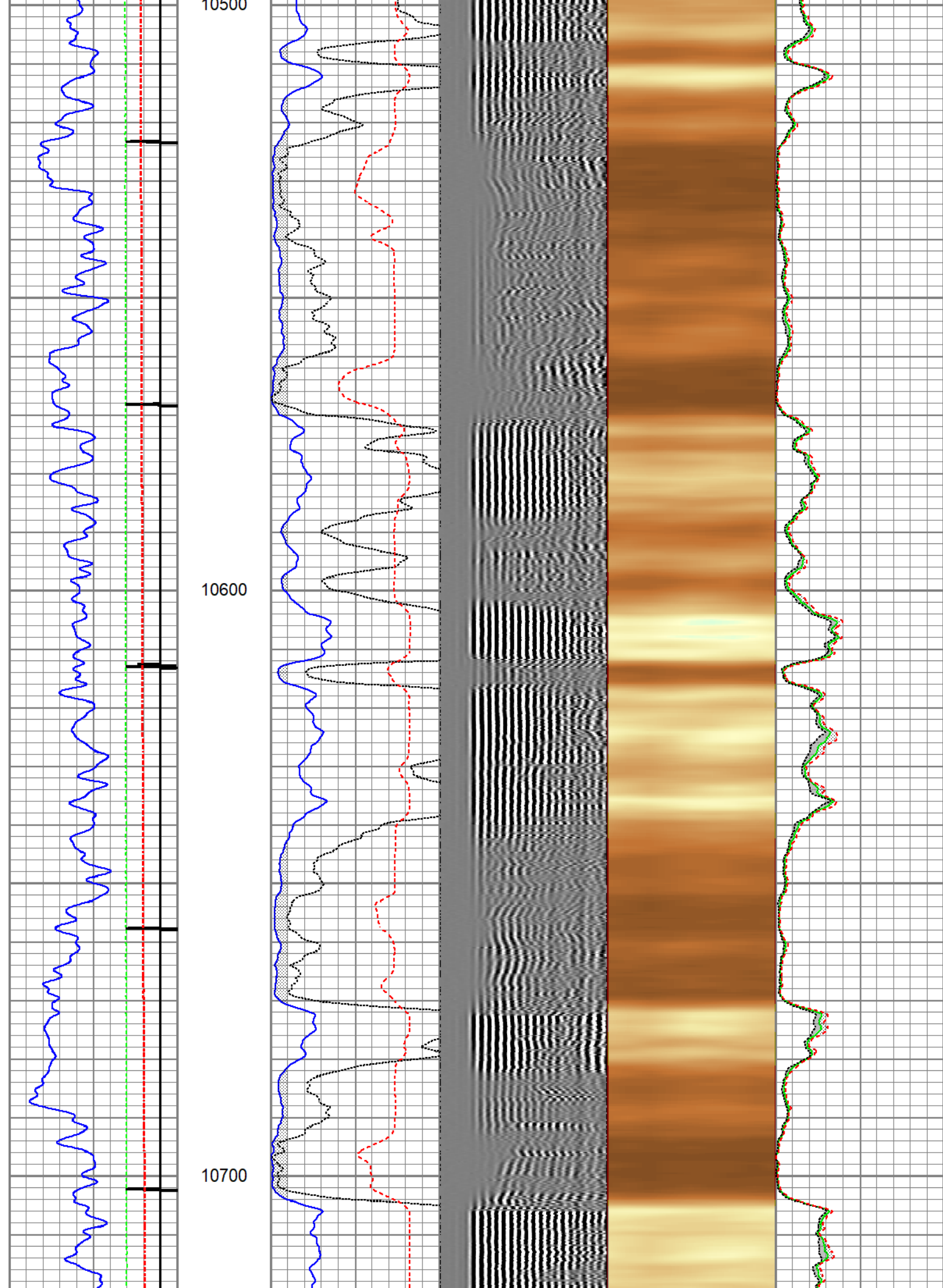


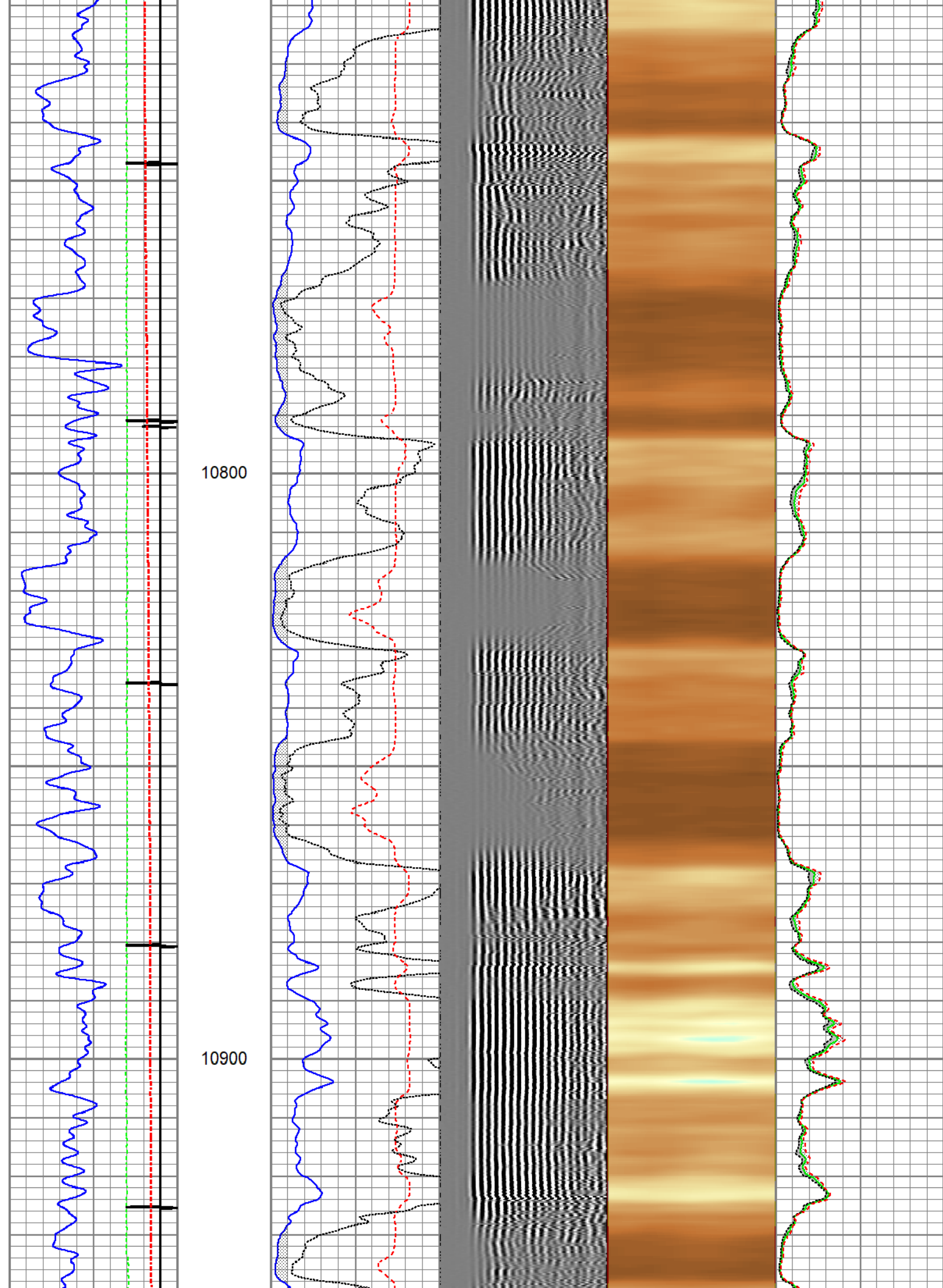


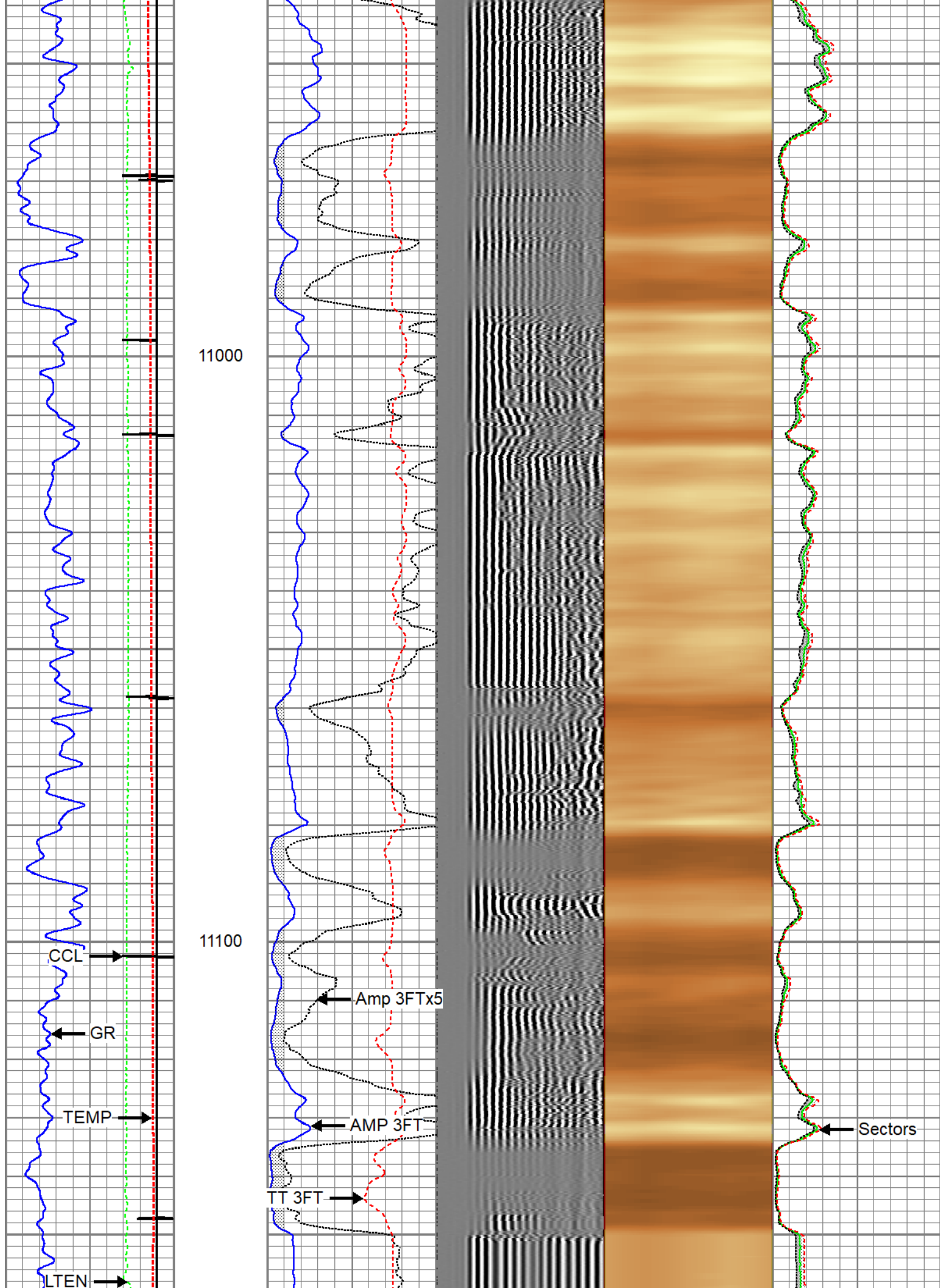


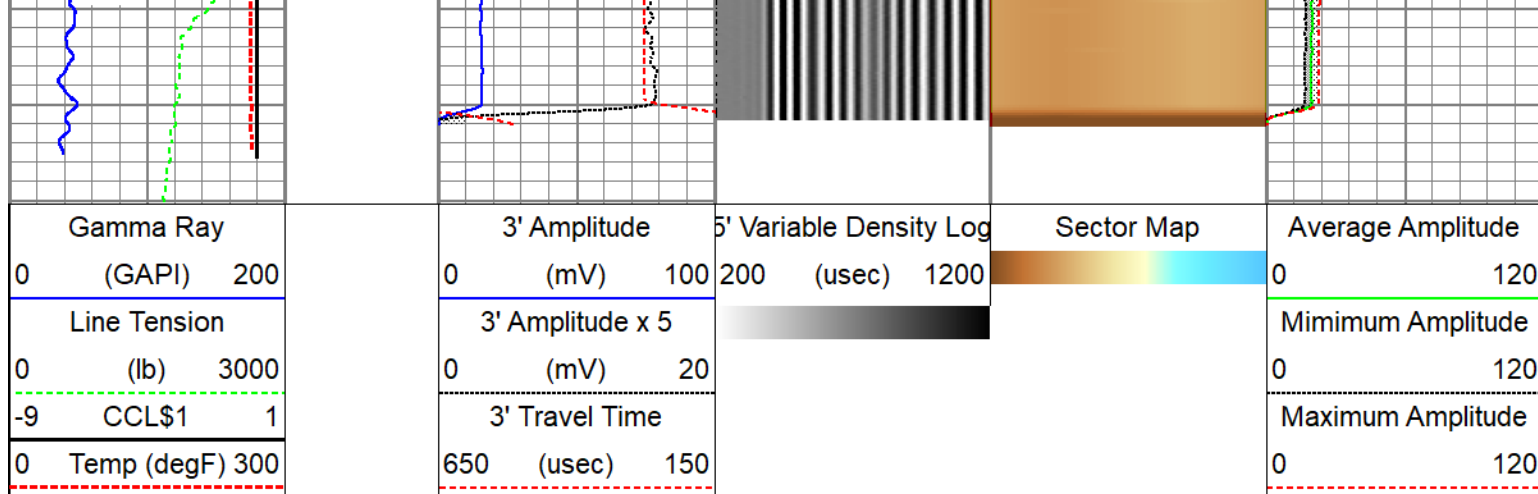








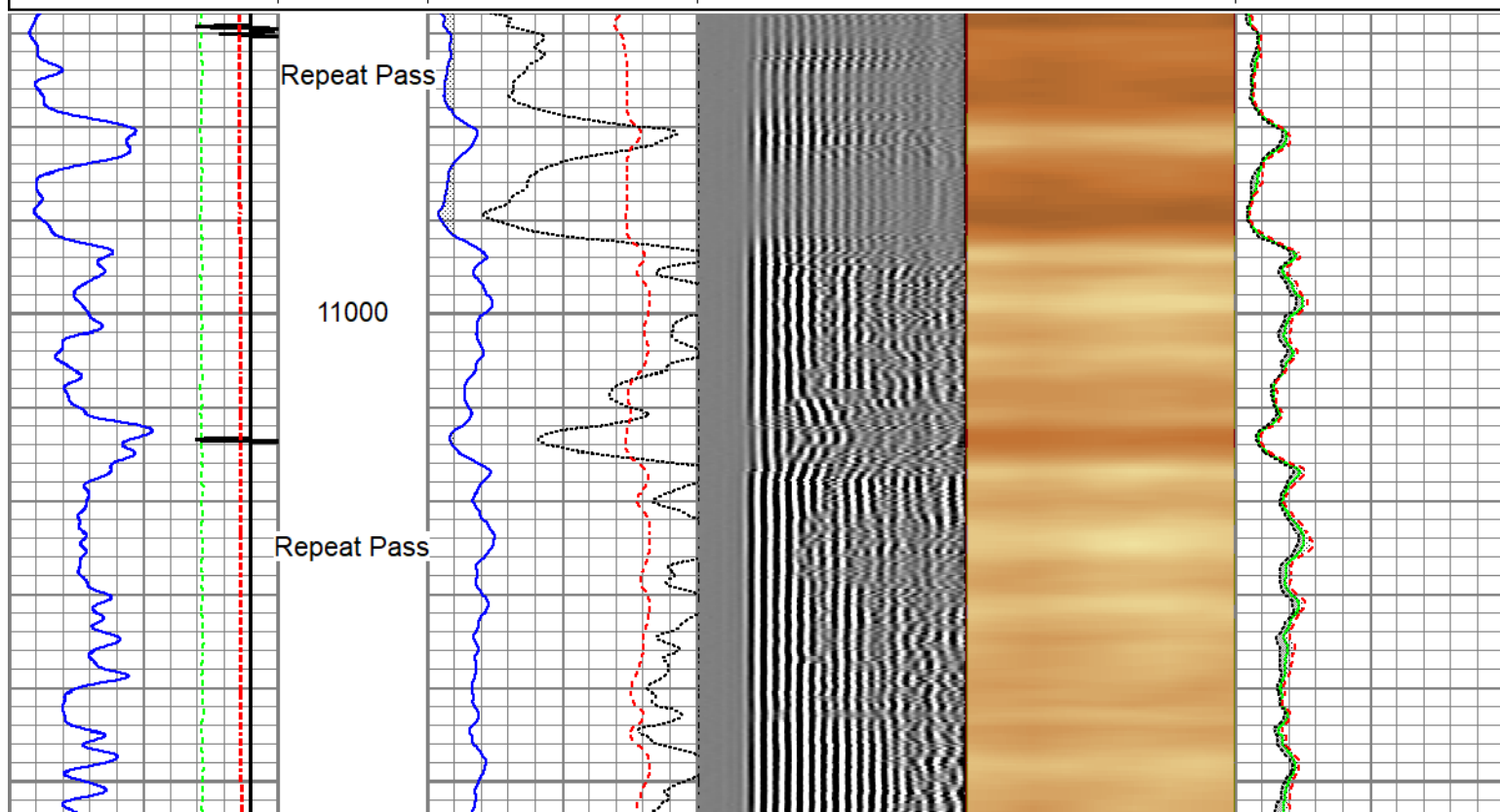
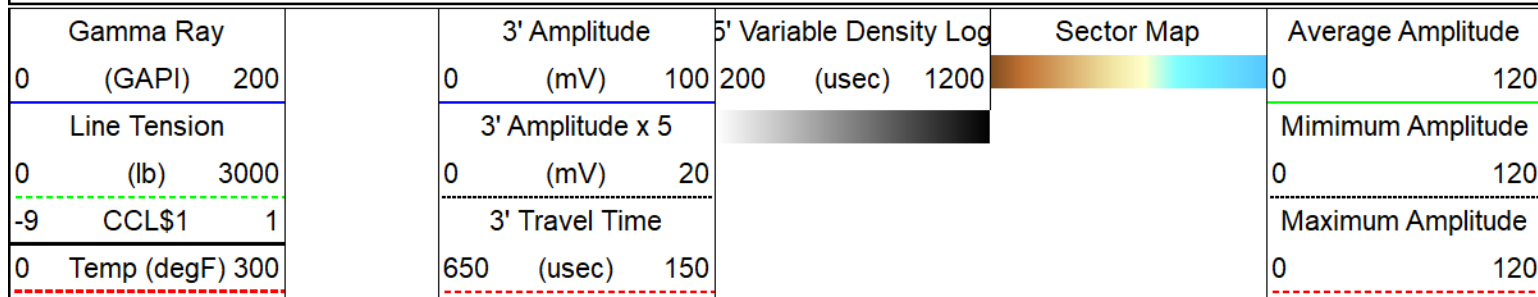


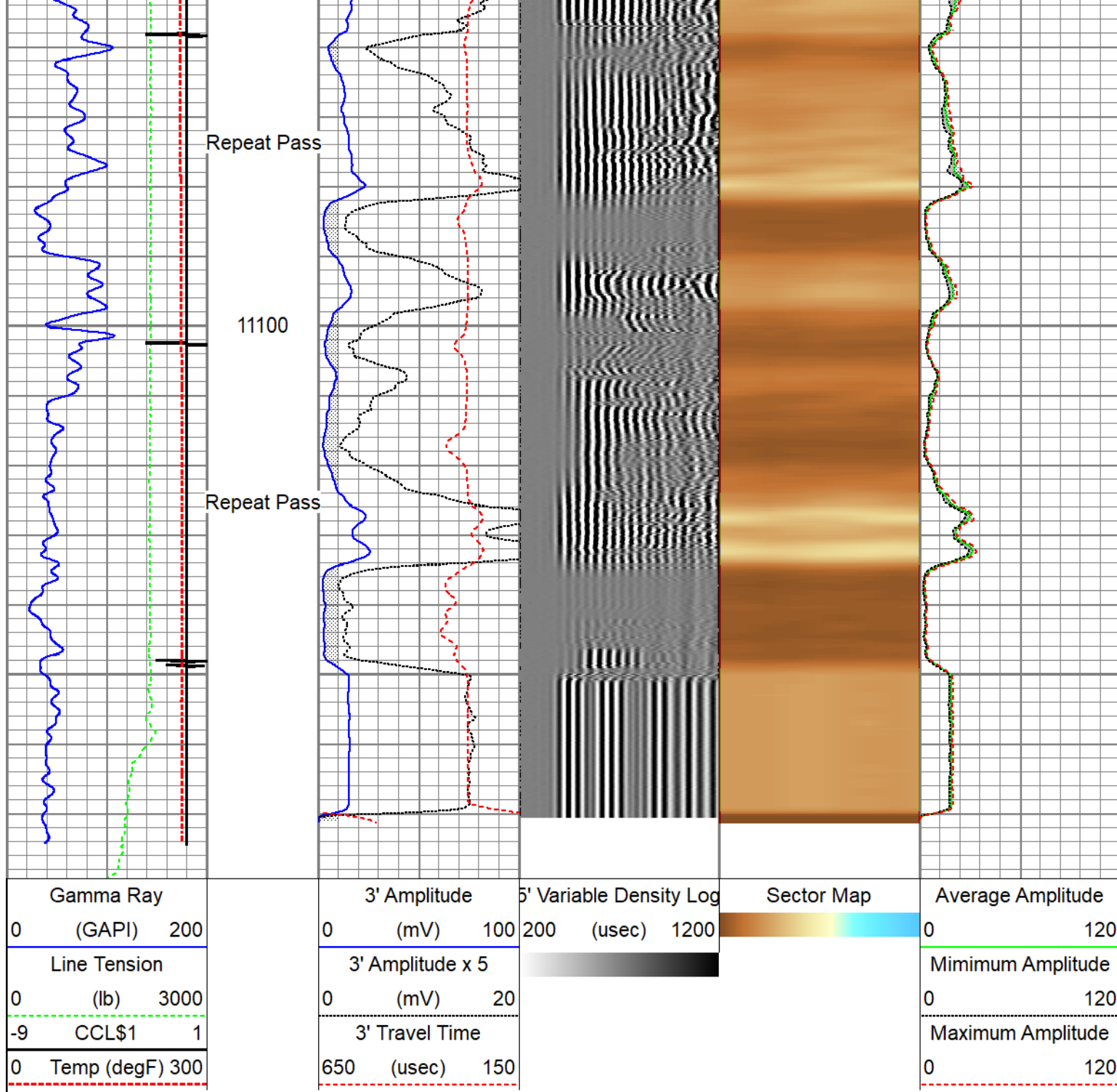




Repeat Pass 5" = 100'

Database File	tep_fed wmc 312-20_rcbl_12-15-2022.db
Dataset Pathname	repeat
Presentation Format	twgrcbl
Dataset Creation	Thu Dec 15 10:42:12 2022
Charted by	Depth in Feet scaled 1:240





Calibration Report		
Database File	tep_fed wmc 312-20_rcbl_12-15-2022.db	
Dataset Pathname	main	
Dataset Creation	Thu Dec 15 10:46:59 2022	
Gamma Ray Calibration Report		
Serial Number:	110255	
Tool Model:	GCTacc_6-Pin-Base	
Performed:	Thu Sep 22 15:12:49 2022	
Calibrator Value:	165.0	GAPI
Background Reading:	72.3	cps
Calibrator Reading:	300.9	cps
Sensitivity:	0.7216	GAPI/cps

Sensitivity:

0.0210

Gain: 1.000

Inclinometer Calibration Report

Performed: Thu Sep 22 15:14:31 2022

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-910.00	1566.00	-1.00	1.00	gee
Y Accelerometer	-989.00	1748.00	-1.00	1.00	gee
Z Accelerometer	1.02	-895.47	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number: FW1311-19
Tool Model: Probe275acc

Calibration Casing Diameter: 4.500 in
Calibration Depth: 30.000 ft

Master Calibration, performed Wed Dec 14 13:15:02 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.732	0.000	81.196	144.976	-0.413
CAL	0.004	0.754				
5'	0.005	0.670	0.000	81.196	158.560	-0.579
SUM						
S1	0.005	0.758	0.000	100.000	172.680	-0.650
S2	0.005	0.757	0.000	100.000	172.810	-0.646
S3	0.005	0.755	0.000	100.000	173.170	-0.626
S4	0.005	0.739	0.000	100.000	177.230	-0.692
S5	0.004	0.726	0.000	100.000	180.110	-0.565
S6	0.004	0.726	0.000	100.000	180.104	-0.565
S7	0.004	0.731	0.000	100.000	178.920	-0.590
S8	0.005	0.736	0.000	100.000	177.790	-0.648

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.754	1.000	0.000




Air Zero Calibration, performed Wed Dec 14 10:52:19 2022:

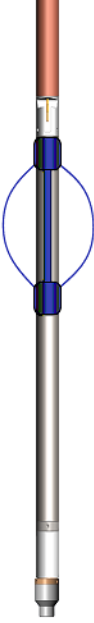
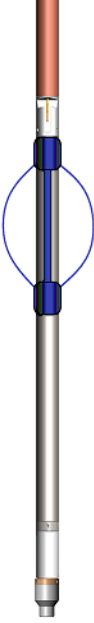
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.004		0.000		-0.000	
5'	0.005		0.000		0.000	
SUM						
S1	0.005		0.000		0.000	
S2	0.004		0.000		0.000	


S2	0.004	0.000	0.000
S3	0.005	0.000	-0.000
S4	0.005	0.000	-0.000
S5	0.004	0.000	-0.000
S6	0.004	0.000	0.000
S7	0.004	0.000	-0.000
S8	0.005	0.000	-0.000

Inclinometer Calibration Report

Performed:	Thu Jul 28 15:55:38 2022				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-914.00	901.00	-1.00	1.00	gee
Y Accelerometer	-903.00	898.00	-1.00	1.00	gee
Z Accelerometer	3.47	893.02	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)				
GCT_FMWR	14.03		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	14.03									
RBT_Status	14.03									
Error_Ct	14.03									
WVFS8	9.53		RBT8acc-Probe275acc (FW1311-19) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00				
WVFS7	9.53									
WVFS6	9.53									
WVFS5	9.53									
WVFS4	9.53									
WVFS3	9.53									
WVFS2	9.53									
WVFS1	9.53									
WVF3FT	9.53									
WVF5FT	8.53									
GCT_HV	5.67									
RBT_ACCZ	5.28									
RBT_ACCY	5.28									
RBT_ACCX	5.28									

WVFSYNC	5.28		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
WVFCAL	5.28					
CCL\$2	4.68					
CCL\$1	4.68					
GCT_TEMP	3.79					
GR	2.99		GCacc-GCTacc_6-Pin-Base (110255) Probe 2.75" Gamma Ray - CCL w/ Temp and 6 Pin Bottom	5.00	2.75	
GCT_IntTemp	1.95					
GCT_ACCZ	0.28					
GCT_ACCY	0.28					
GCT_ACCX	0.28					
			Probe ADPT-6P-GO Probe 2-3/4" 6-Pin Top to GO Bottom Adaptor Sub	0.28	2.75	2.00
Dataset: tep_fed wmc 312-20_rcbl_12-15-2022.db: field/well/run1/main Total length: 14.03 ft Total weight: 132.00 lb O.D.: 3.25 in						

Company	TEP Rocky Mountain LLC				
Well	Federal WMC 312-20				
Field	Rulison				
County	Garfield	State	Colorado		
		Radial Cement Bond			
		Gamma Ray			
		Casing Collar Log			