



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC
Well Federal WMC 512-20
Field Rulison
County Garfield
State Colorado

Company TEP Rocky Mountain LLC
Well Federal WMC 512-20
Field Rulison
County Garfield
State Colorado

Location: API #: 05-045-24487

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

One

Run Number 11410 FT

Depth Driller 11294 FT

Depth Logger 11285 FT

Bottom Logged Interval Surface

Top Log Interval 8.75"

Open Hole Size 8.75"

Type Fluid Water

Density / Viscosity 8.34 Lb/Gal

Max. Recorded Temp. 257°F

Estimated Cement Top See Log

Time Well Ready ROA

Time Logger on Bottom 8:10

Equipment Number 8047

Location Grand Junction

Recorded By P. Edwards

Witnessed By C. Borgstede

Borehole Record

Run Number

Bit

From

To

Size

Weight

From

To

Tubing Record

Run Number

Bit

From

To

Size

Weight

From

Casing Record

Run Number

Bit

From

To

Size

Weight

From

To

Size

Weight

From

Casing Record

Surface String 9-5/8"

Prot. String

Production String 4-1-2"

Liner

Size

Wgt/Ft

Top

Bottom

Surface

Surface

1170 FT

11400 FT

116

11.6

Comments

Log is correlated to 30' K.B.
Marker joint logged @ 6986 FT - 6996 FT
Log ran with 0 PSI at surface

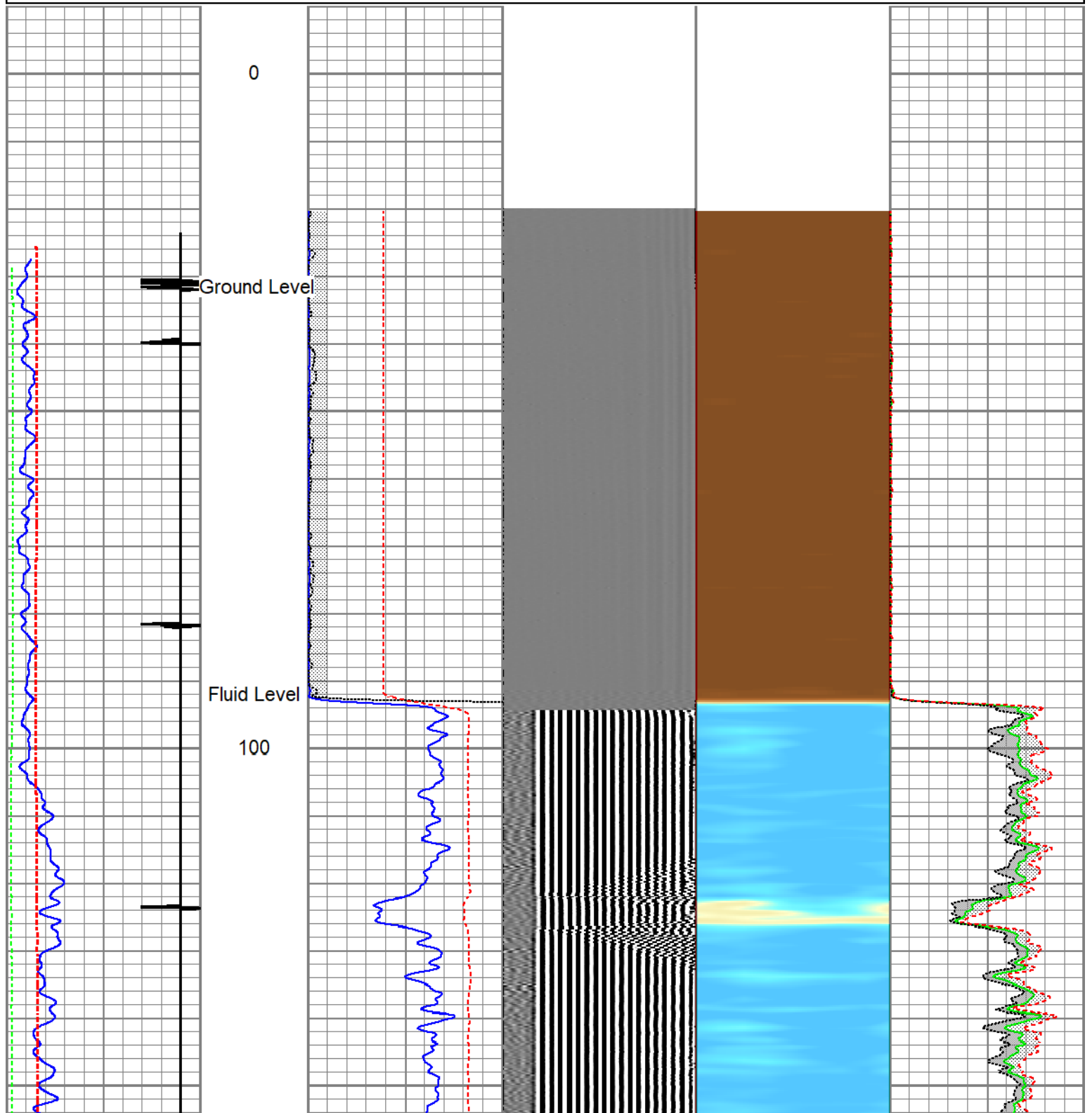
Thank you for choosing The Wireline Group!

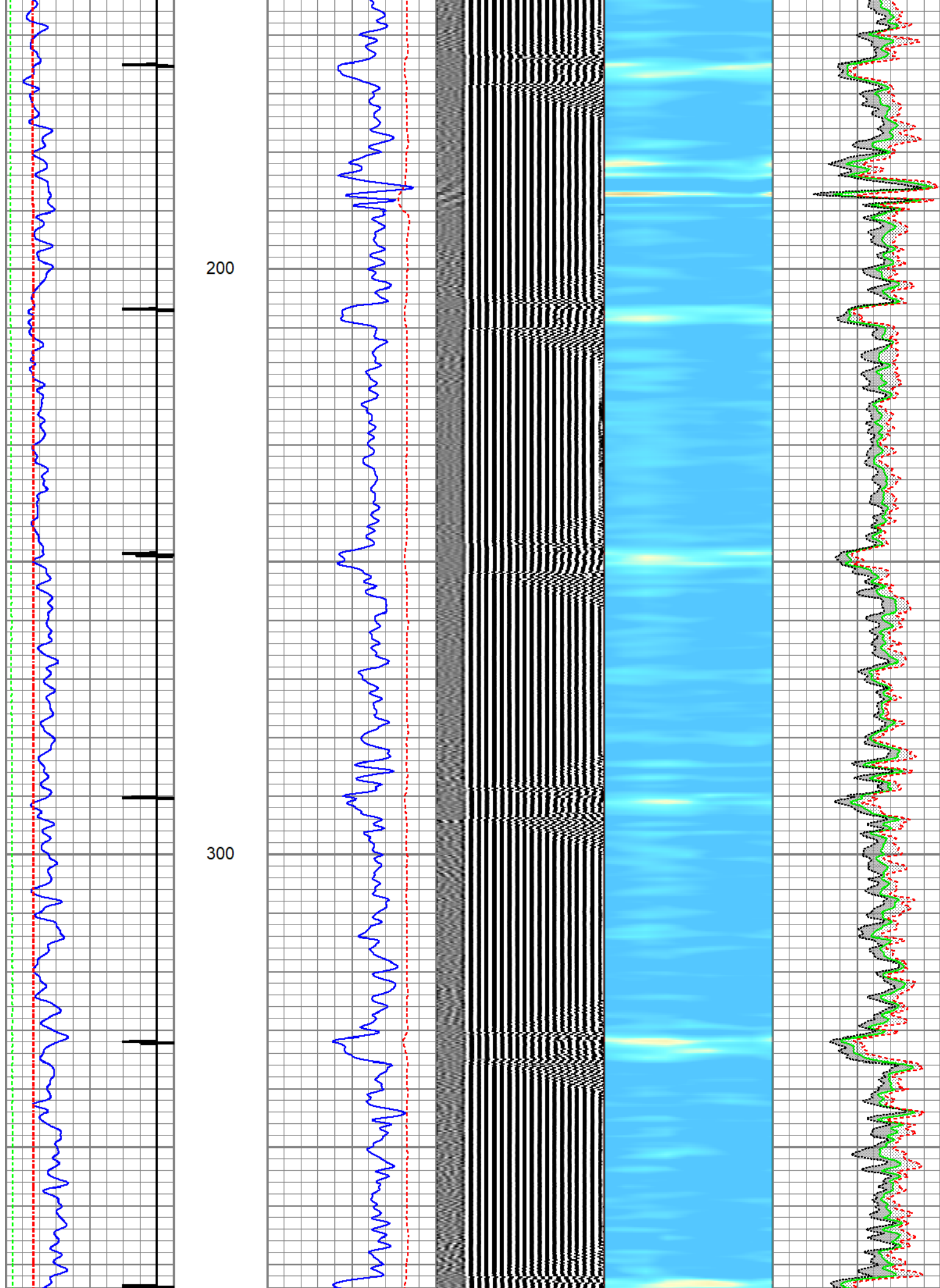


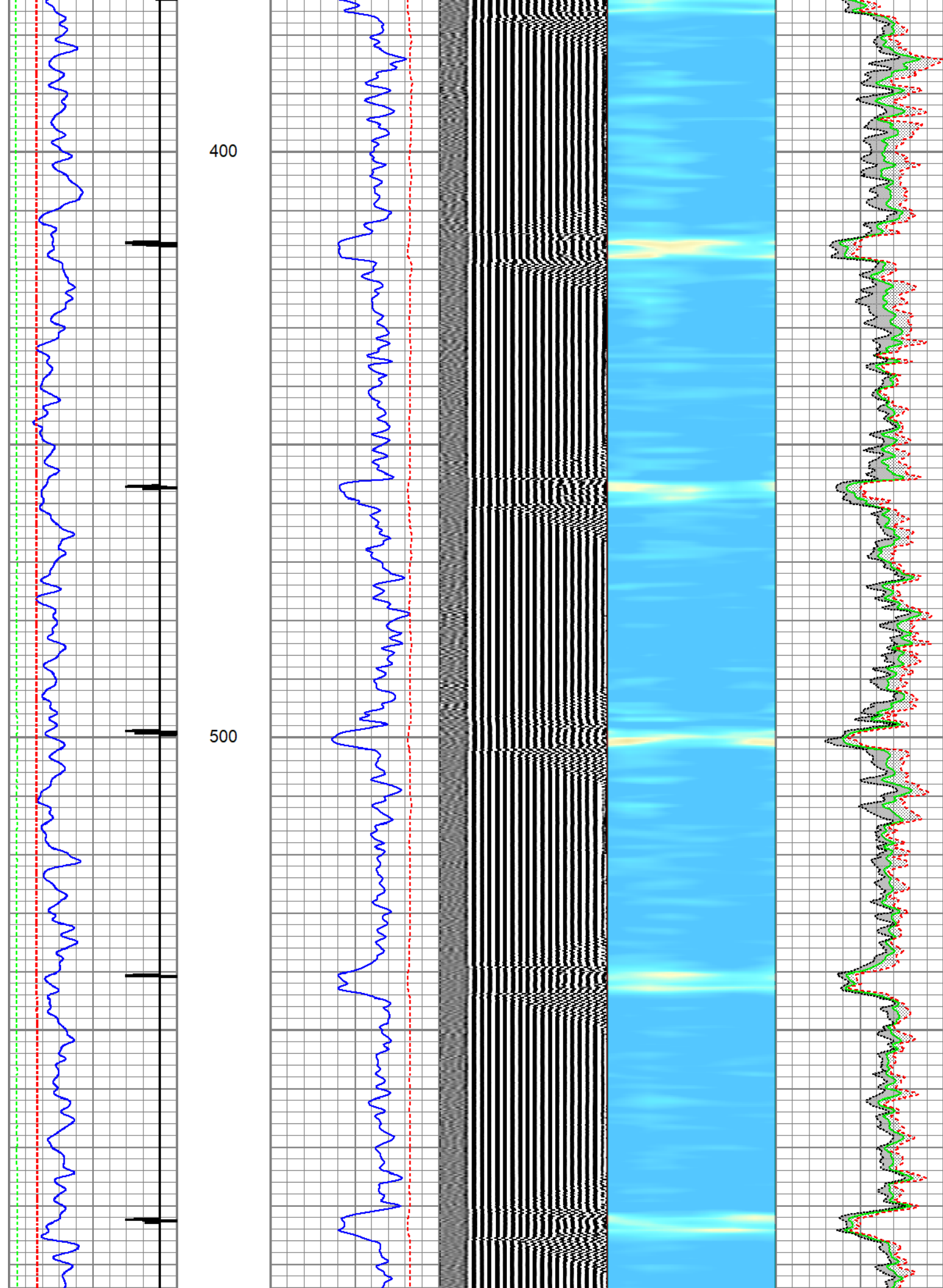
Main Pass 5" = 100'

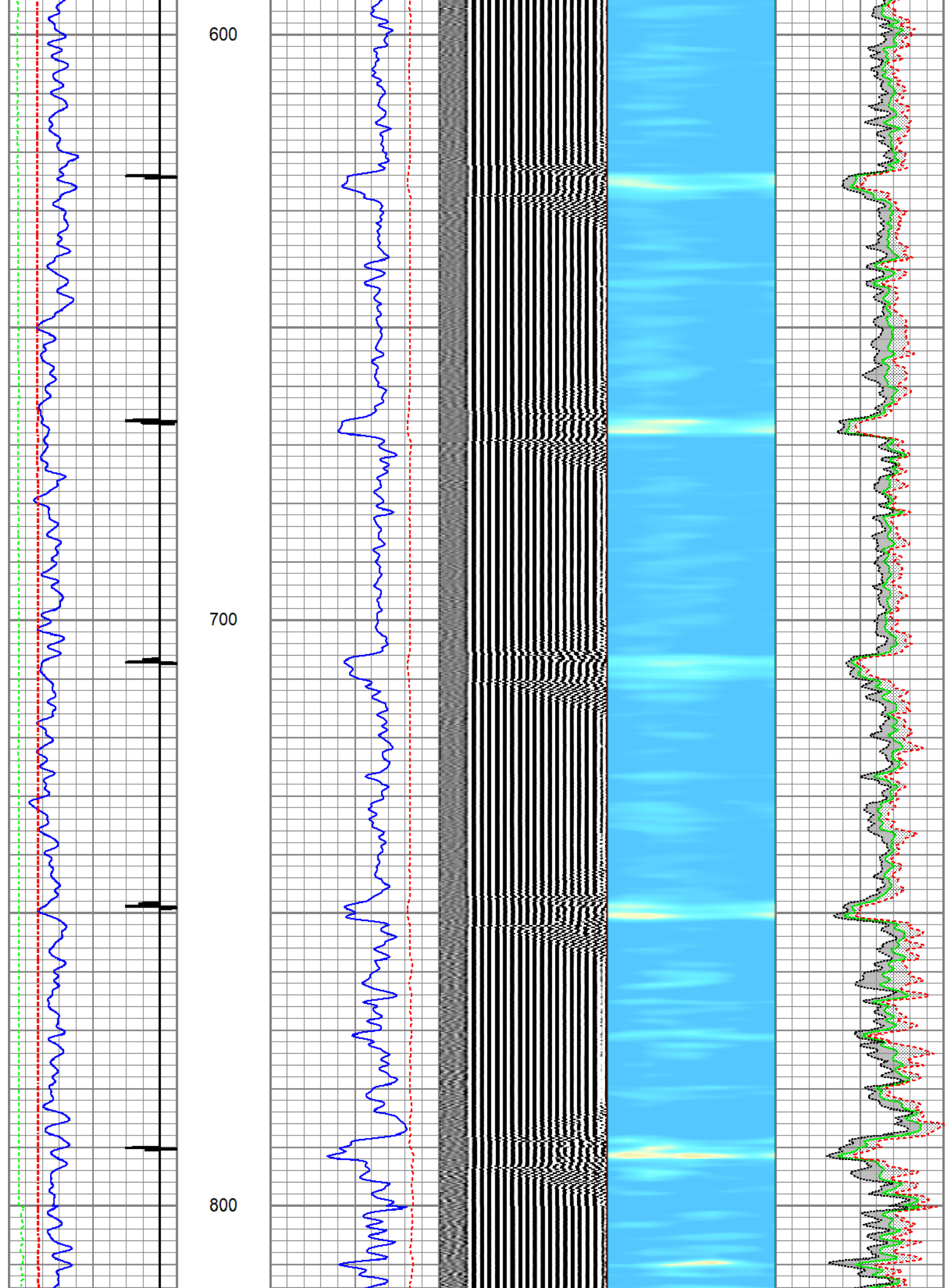
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Dataset Pathname merge1
Presentation Format twgrcbl
Dataset Creation Thu Dec 15 10:14:10 2022
Charted by Depth in Feet scaled 1:240

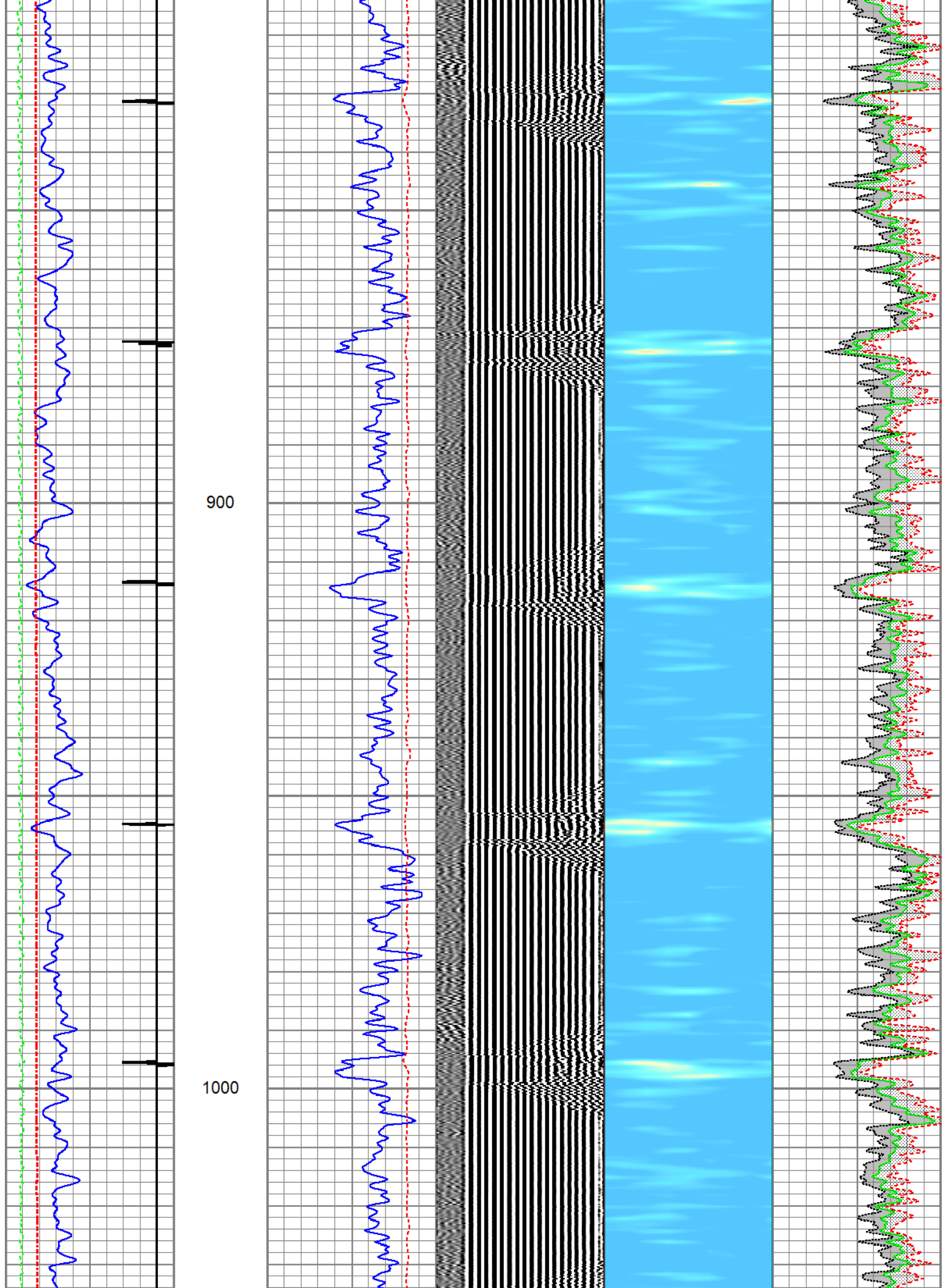
Gamma Ray			3' Amplitude		5' Variable Density Log	Sector Map	Average Amplitude	
0	(GAPI)	200	0	(mV)	100		0	120
Line Tension			3' Amplitude x 5				Minimum Amplitude	
0	(lb)	3000	0	(mV)	20		0	120
-9	CCL\$1	1	3' Travel Time				Maximum Amplitude	
0	Temp (degF)	300	650	(usec)	150		0	120

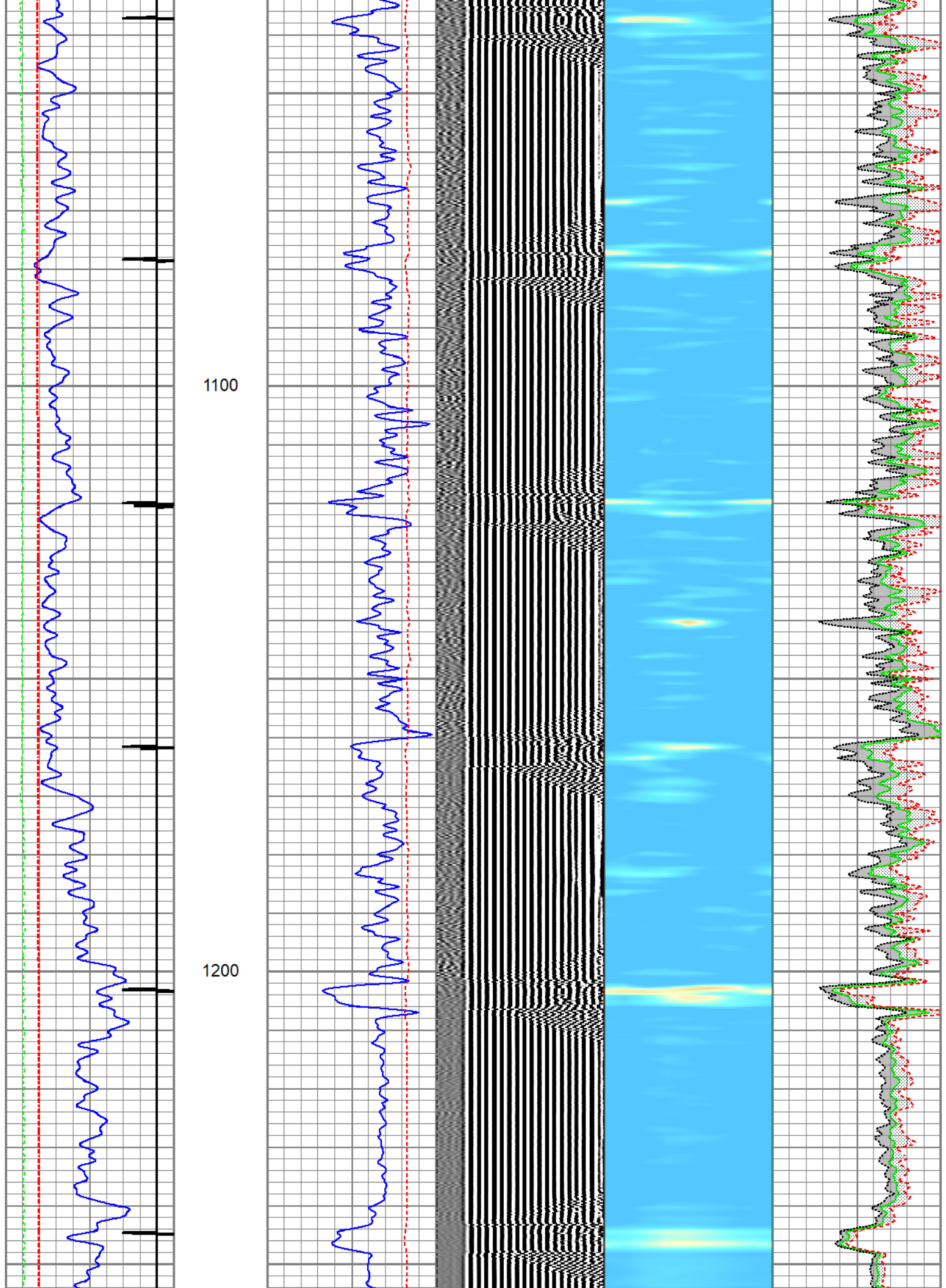


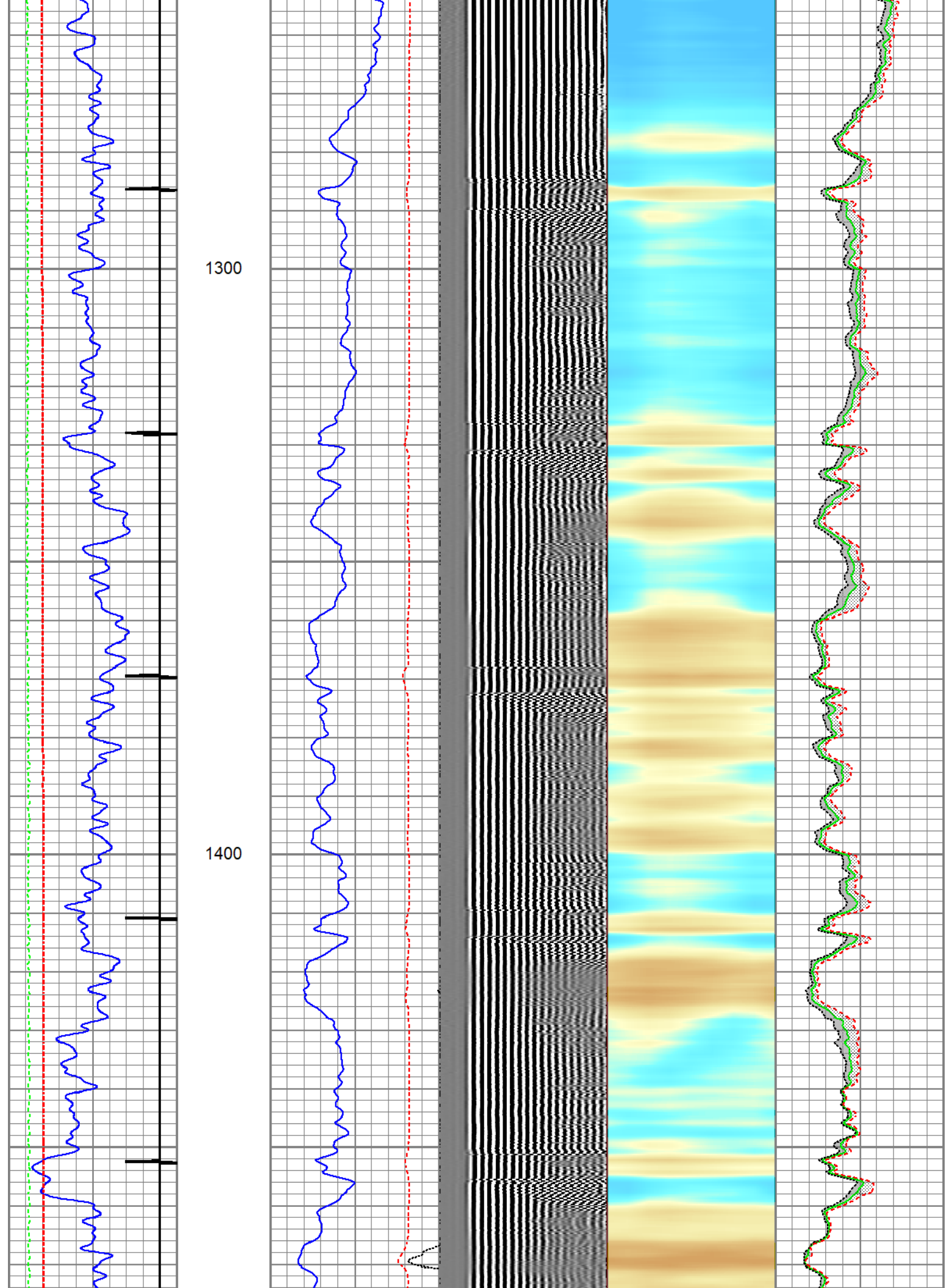


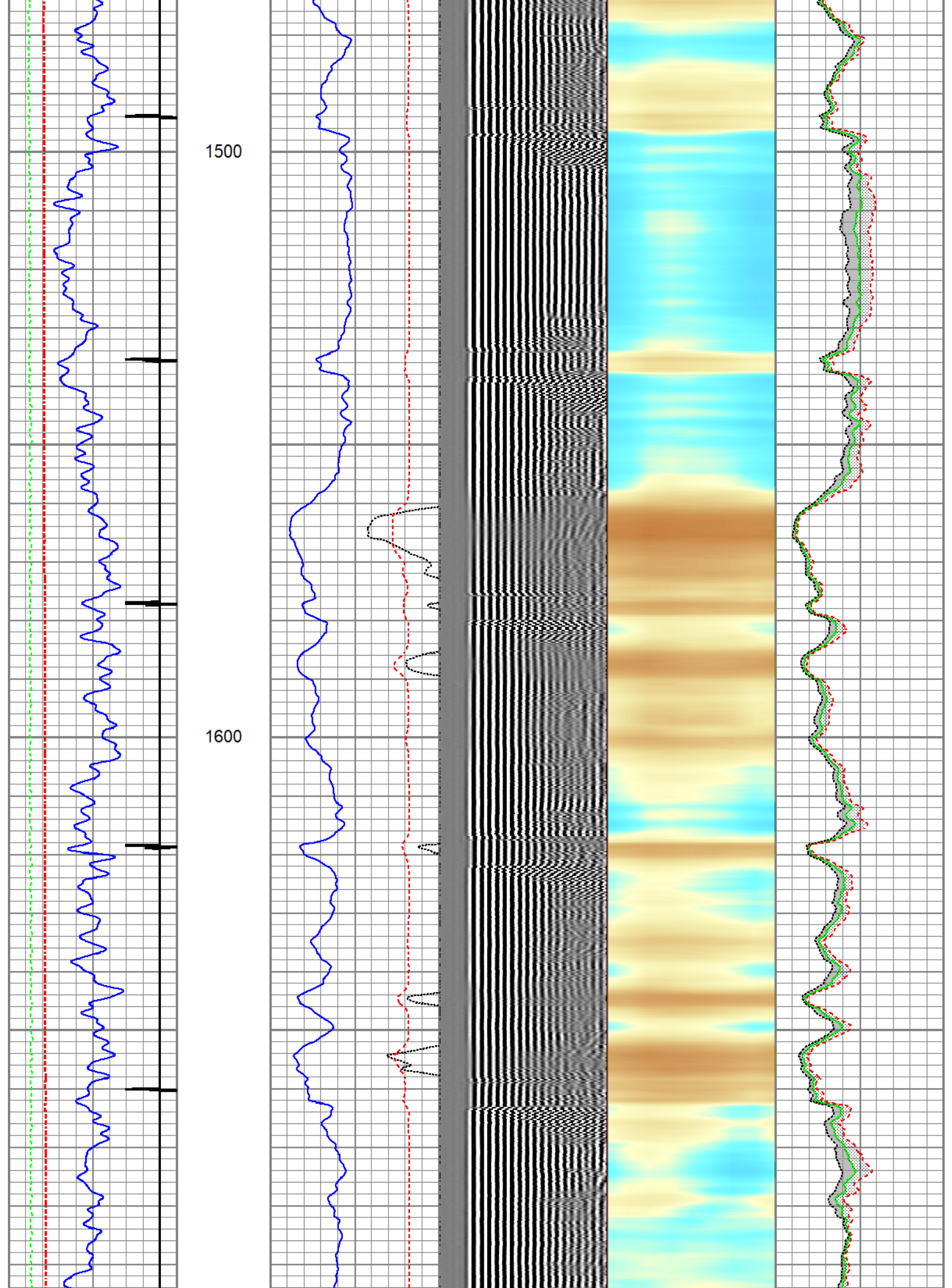


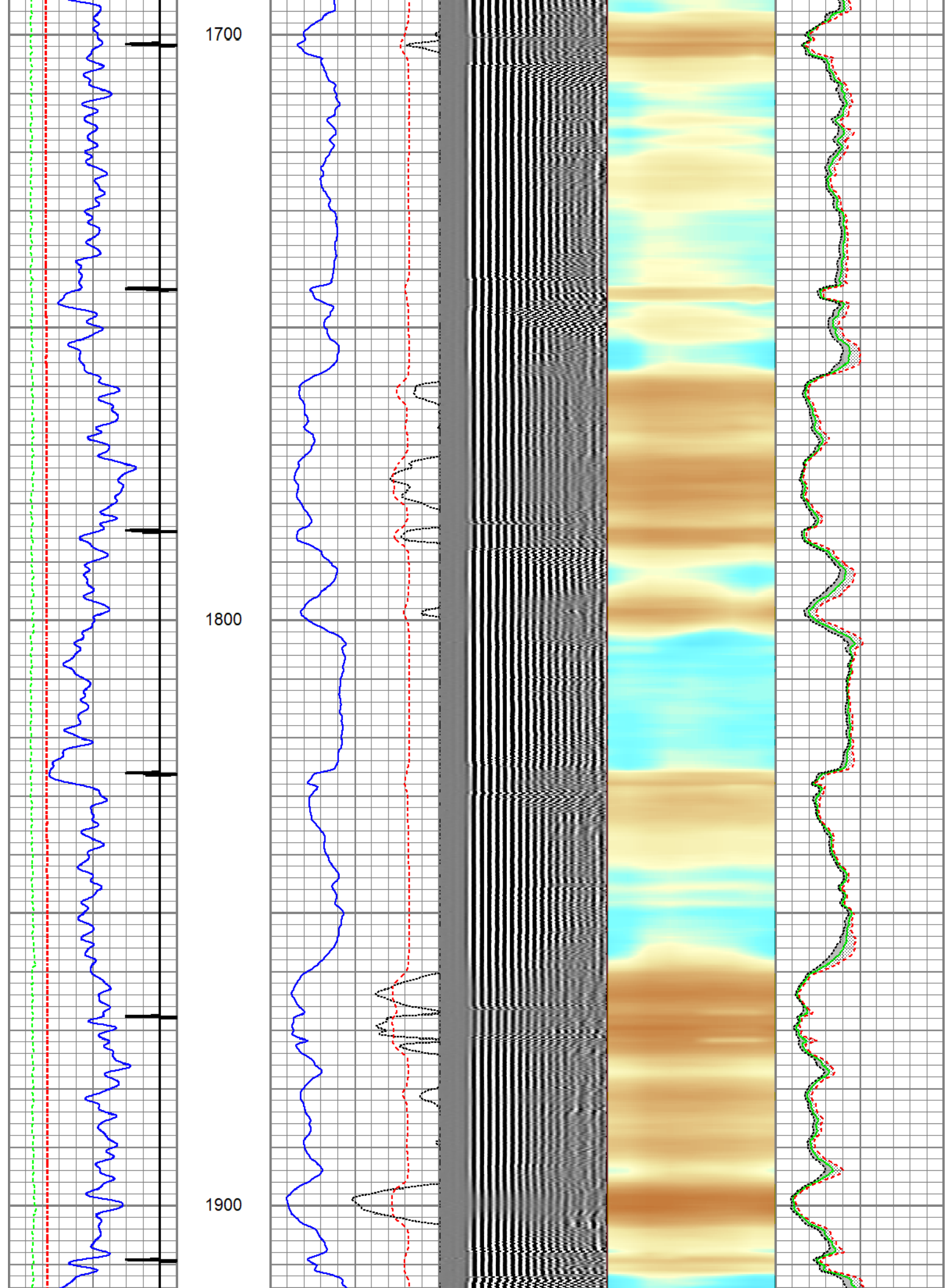


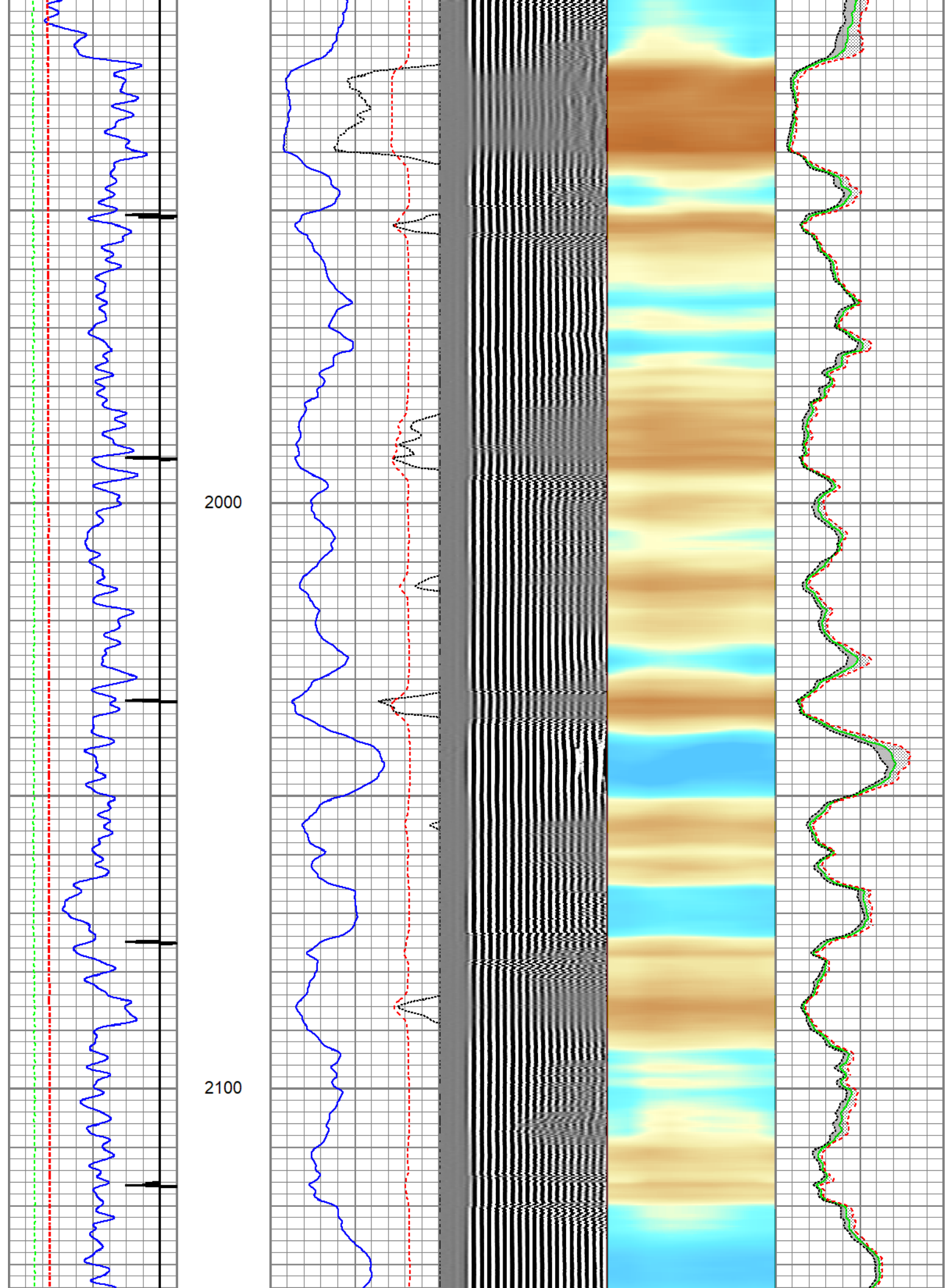


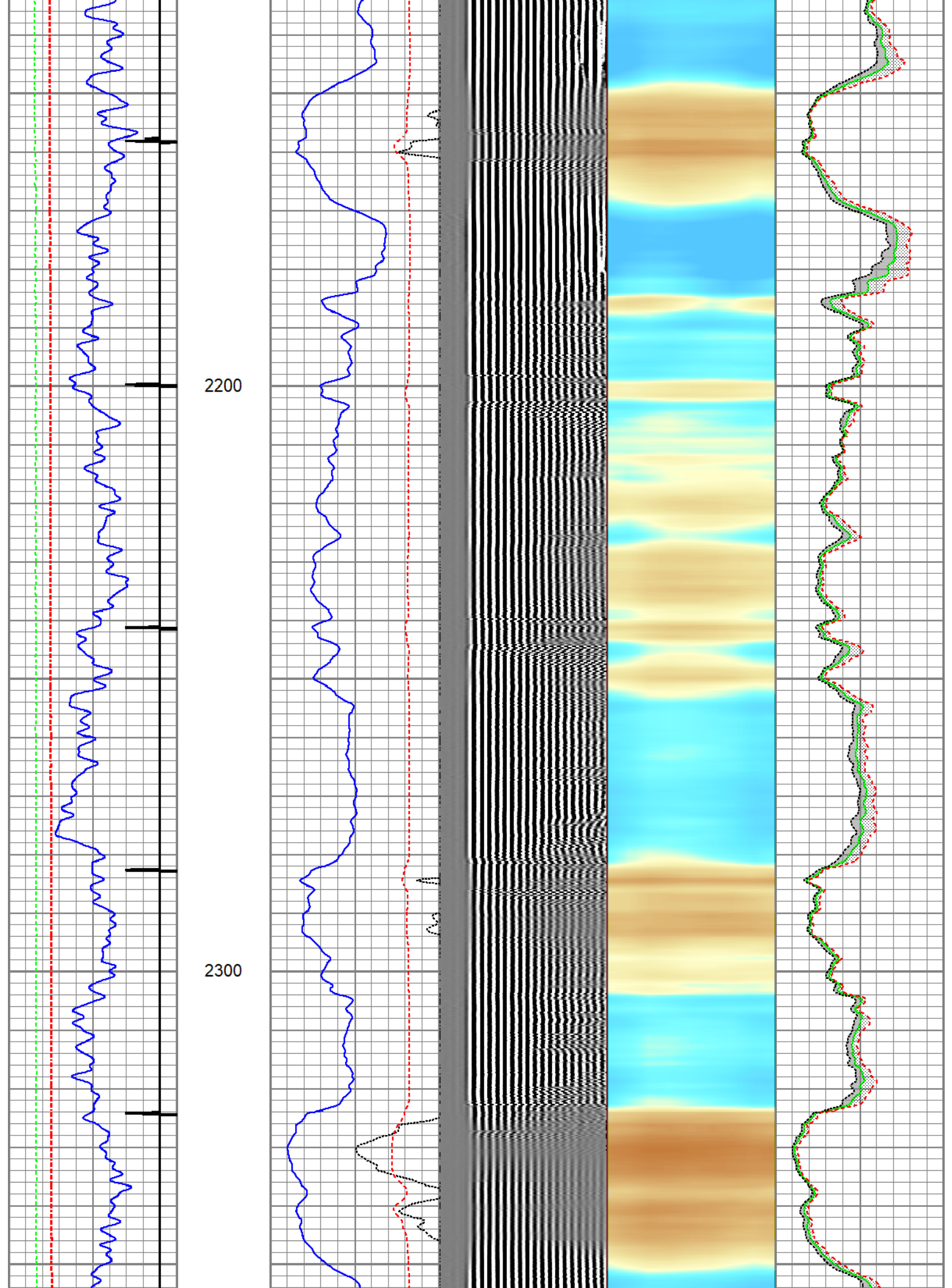


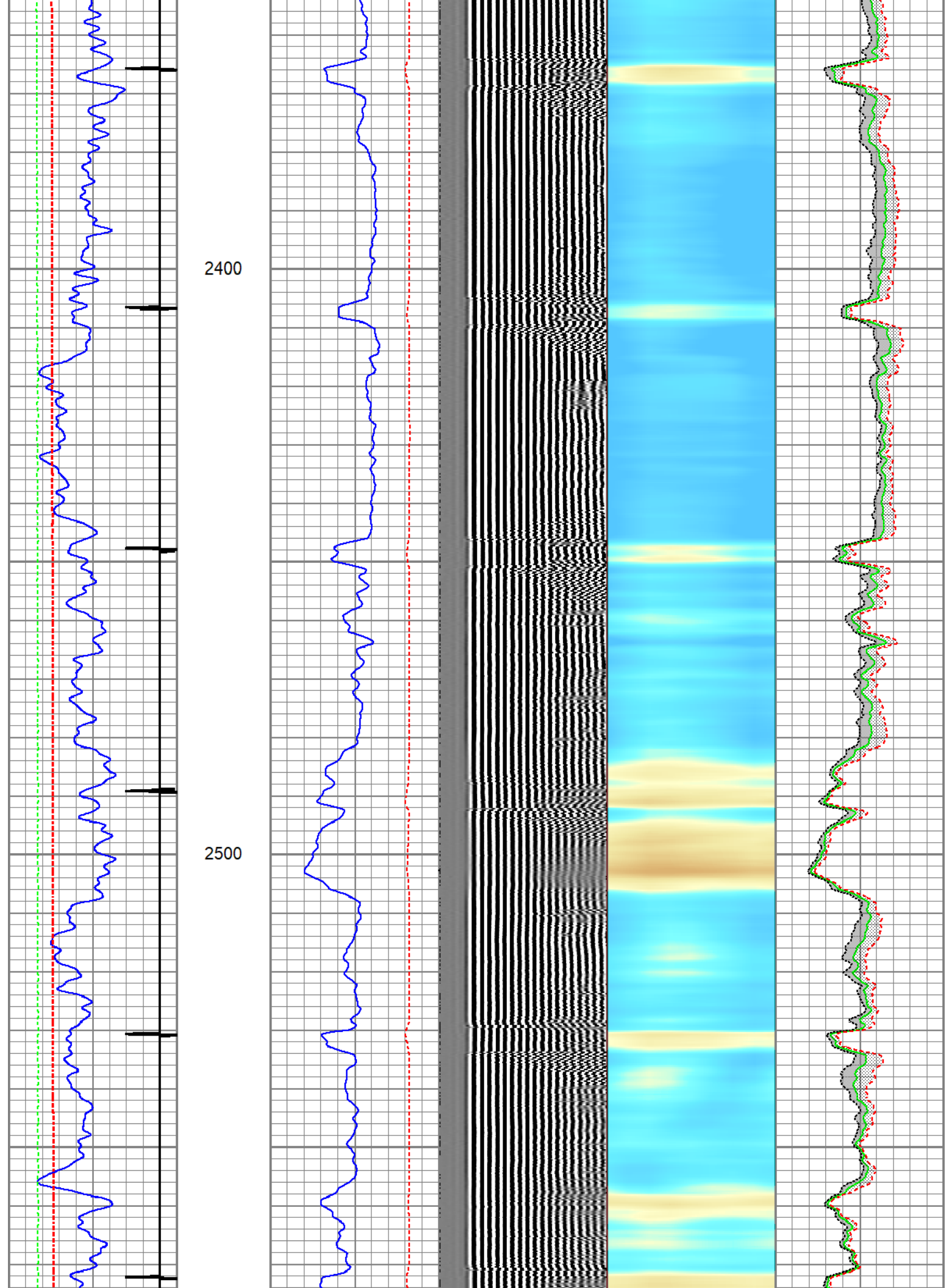






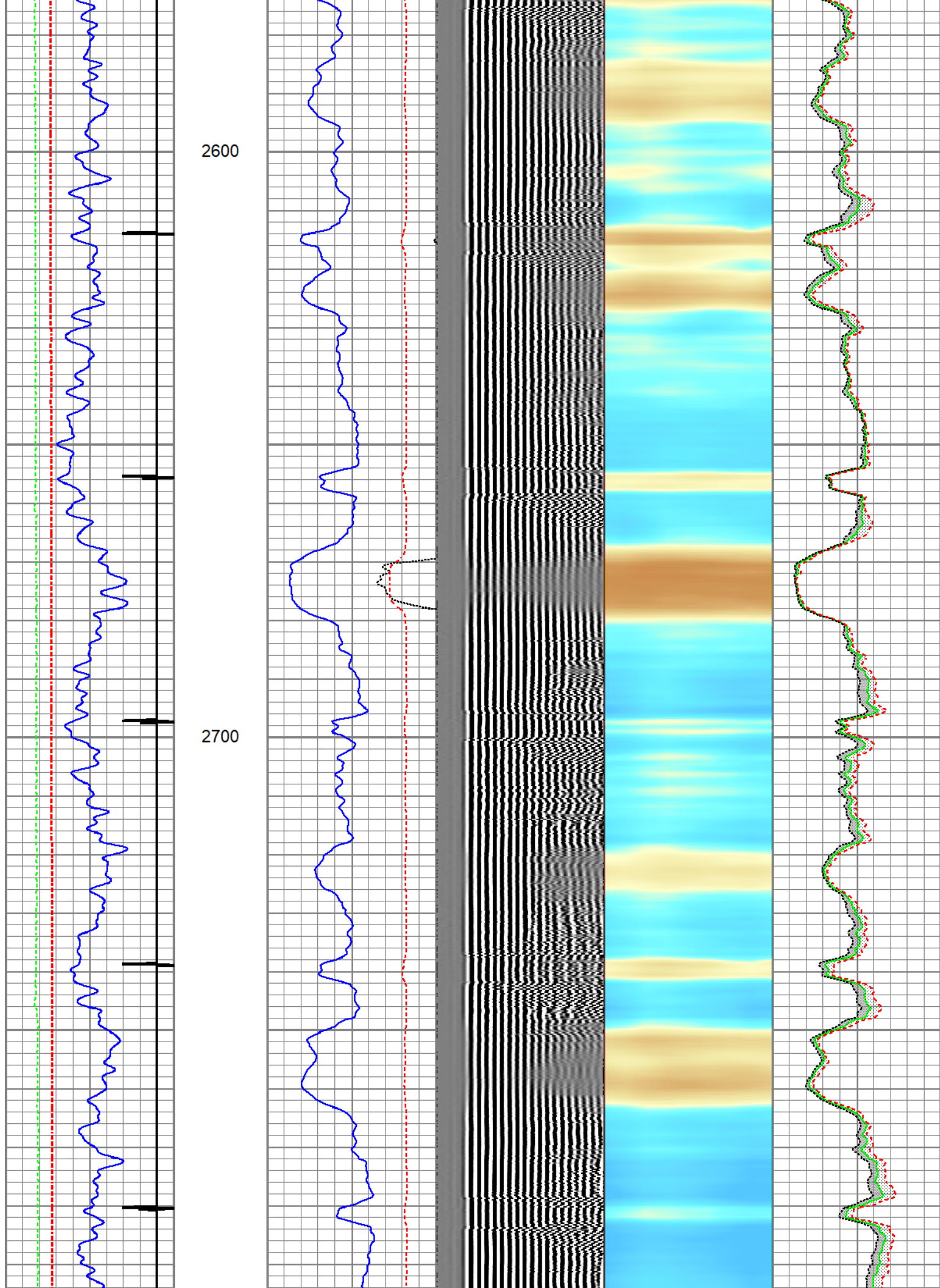






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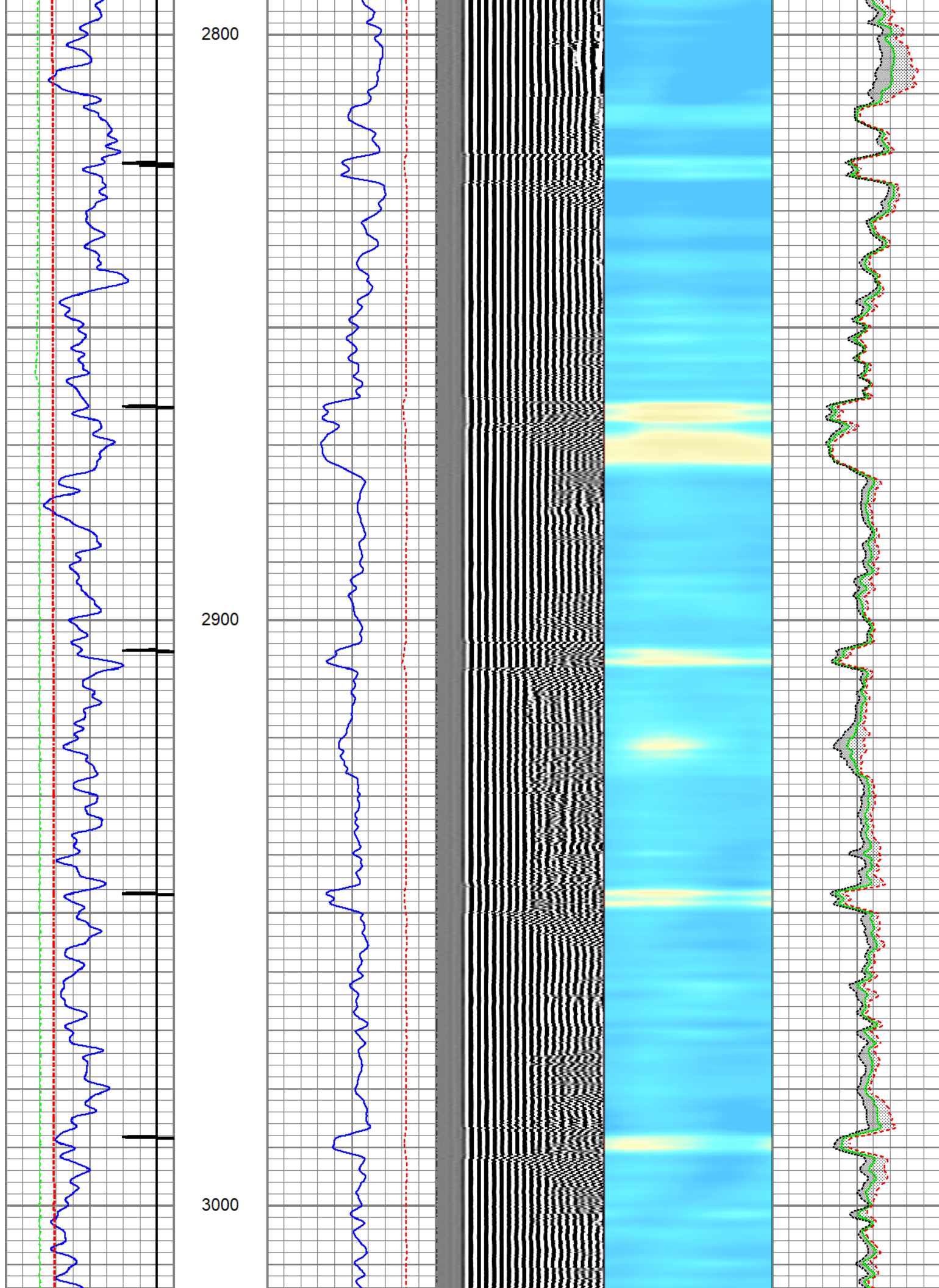
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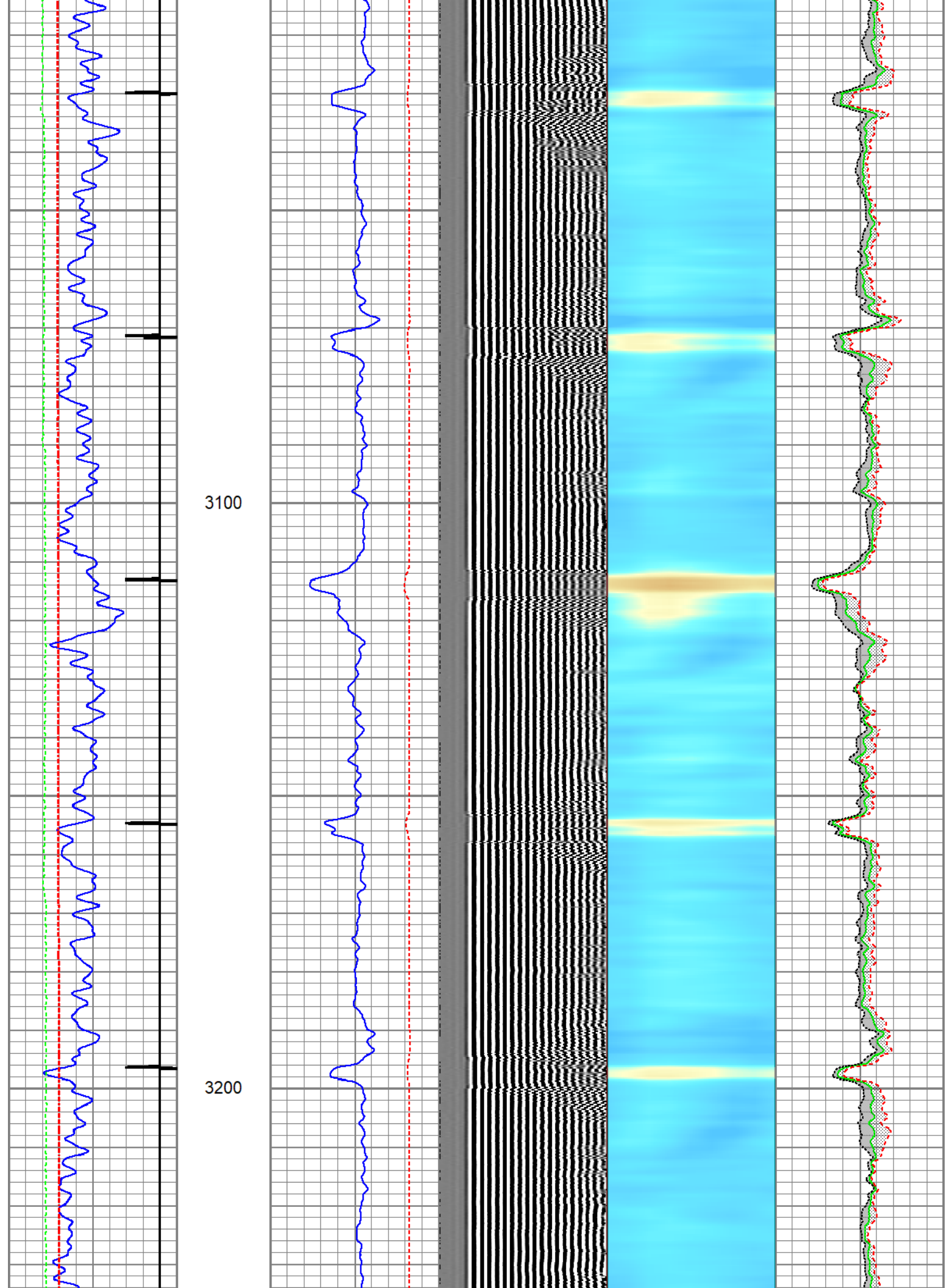


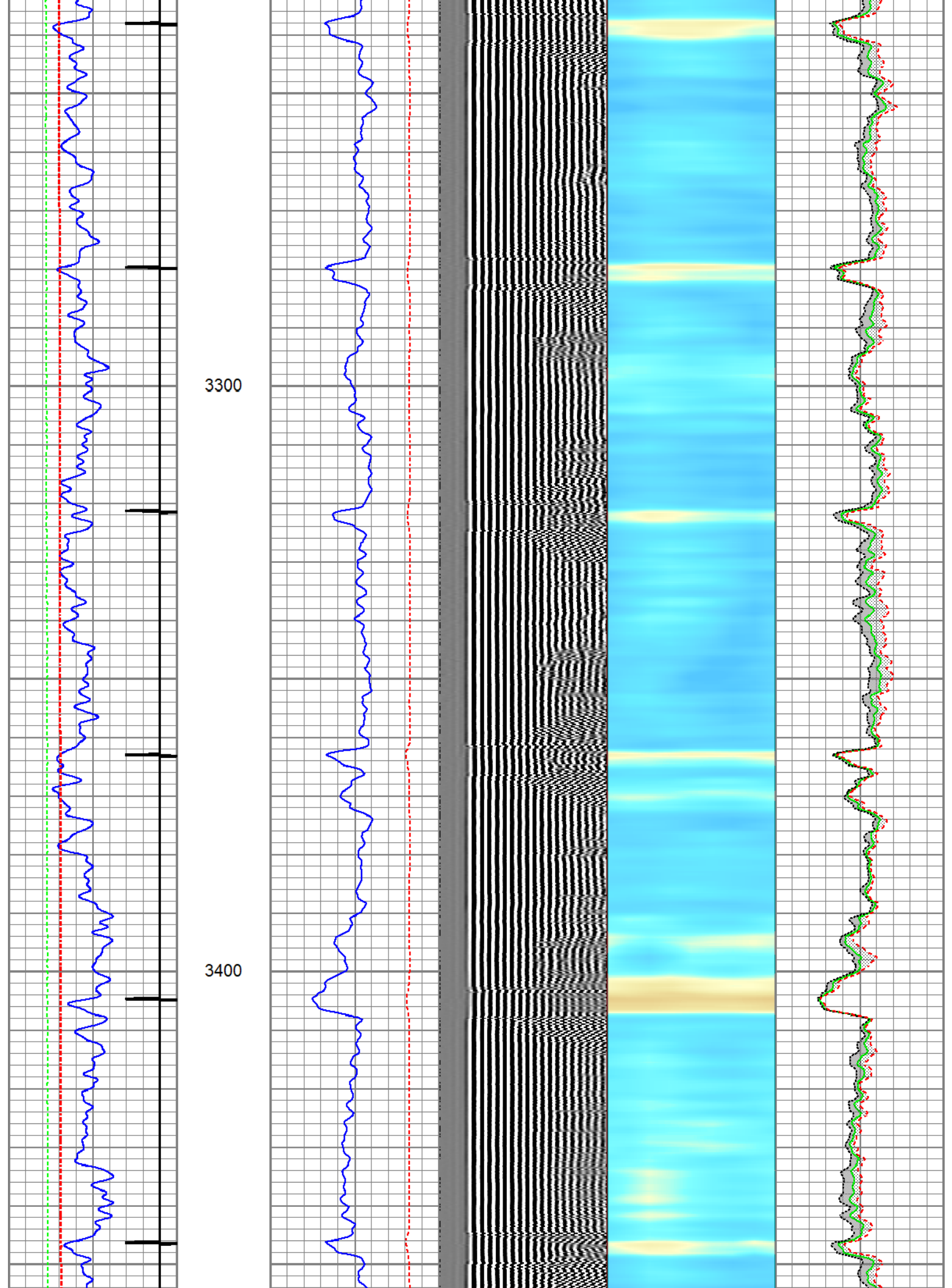
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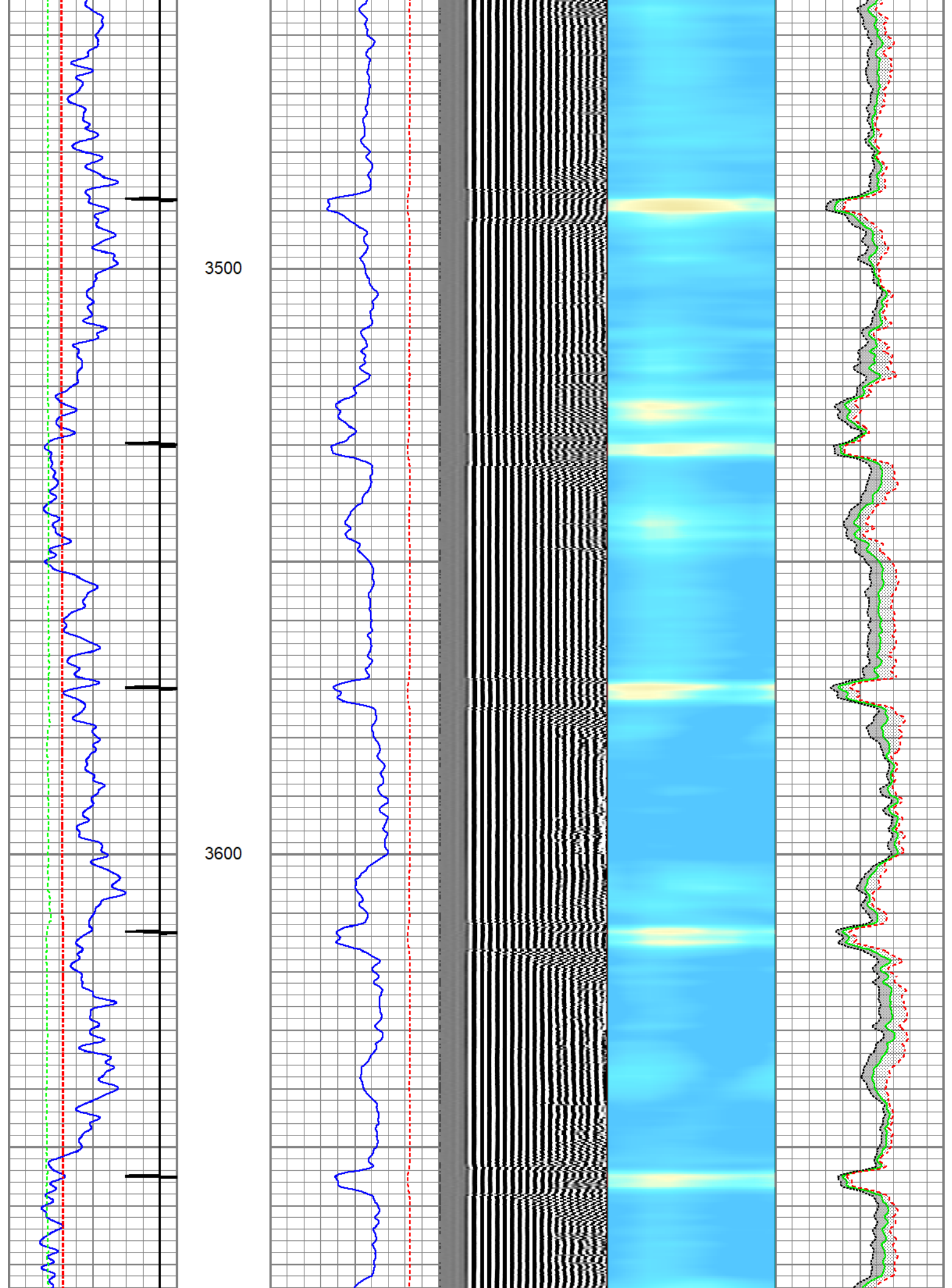
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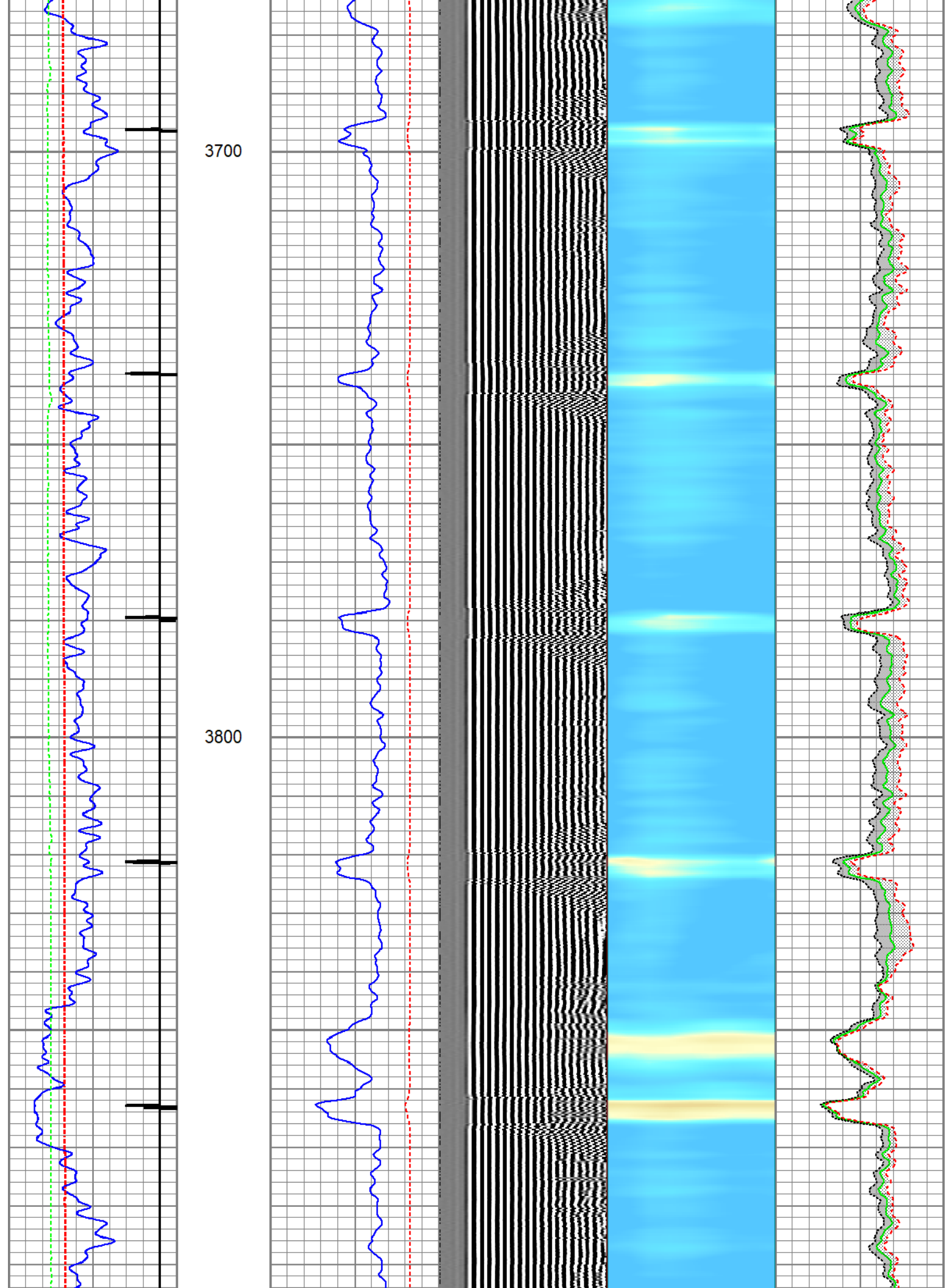
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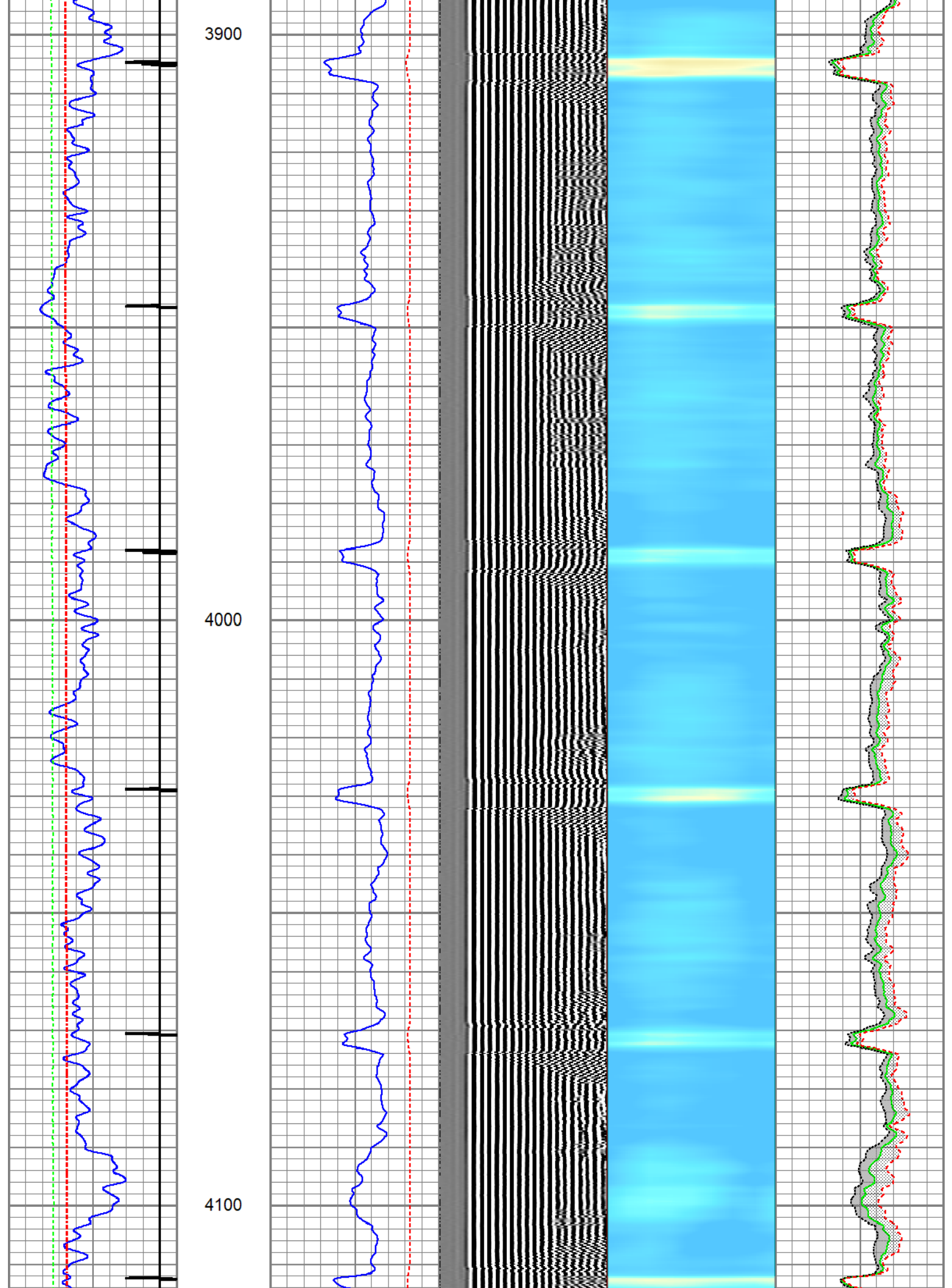


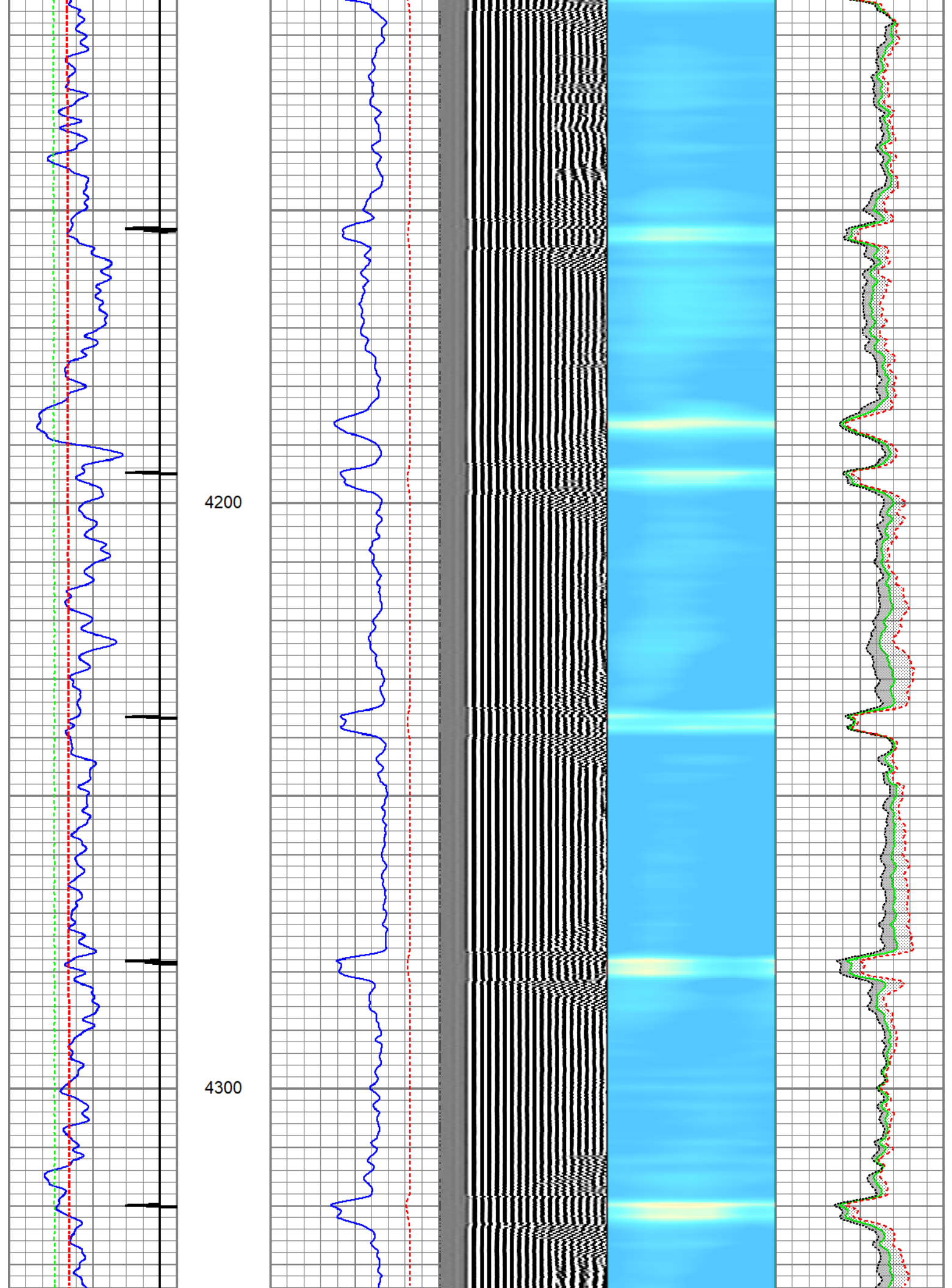


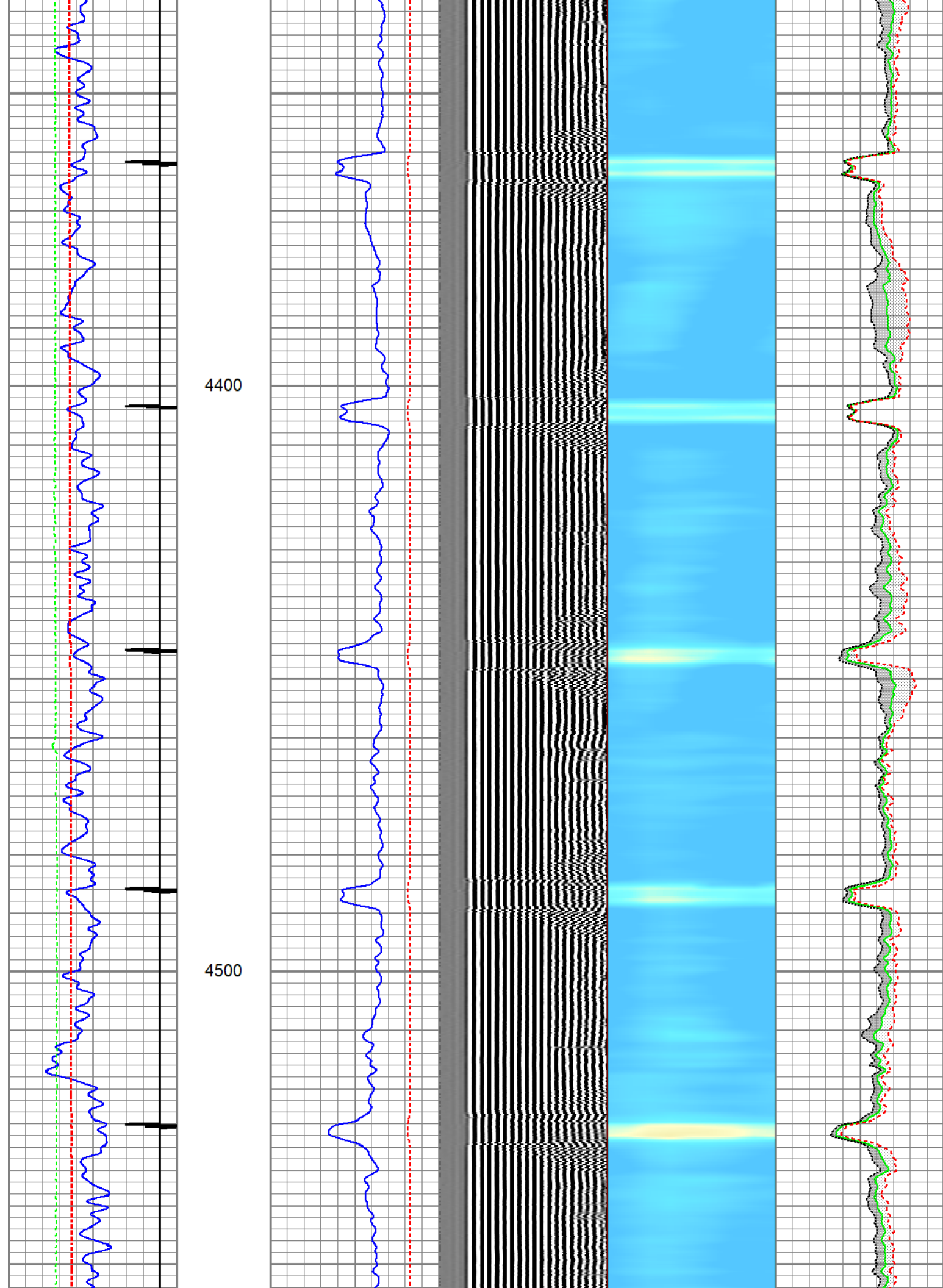


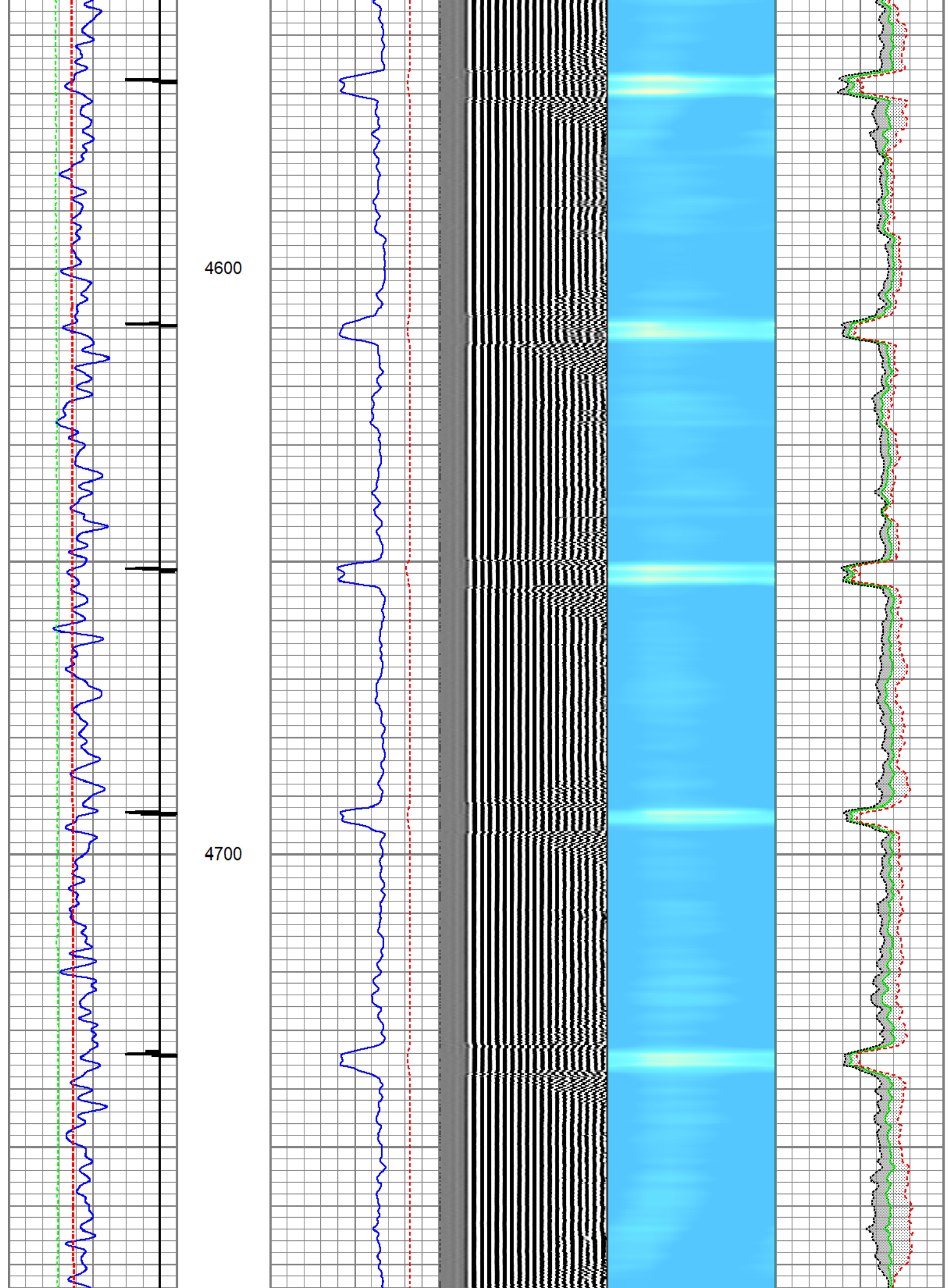


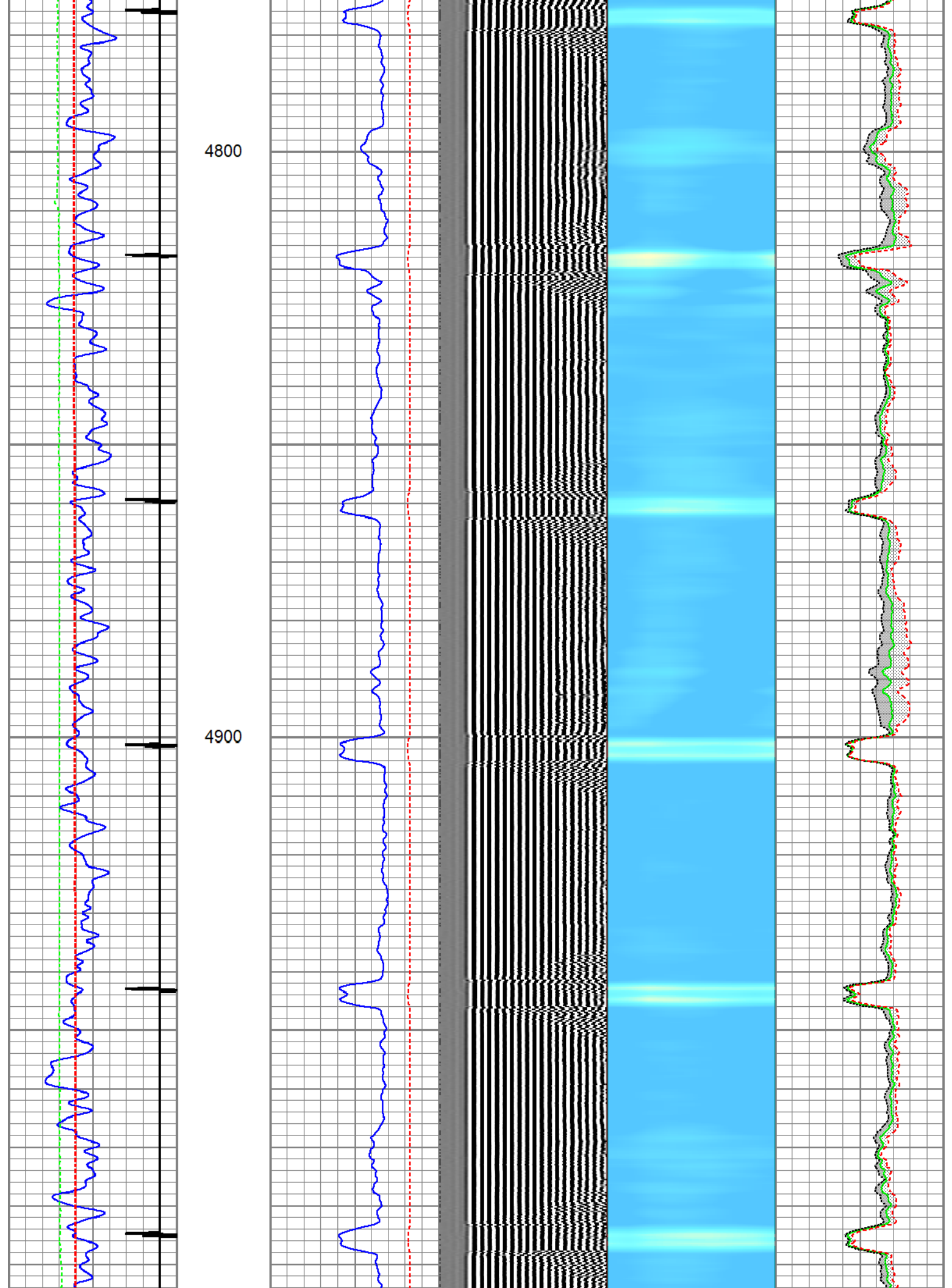


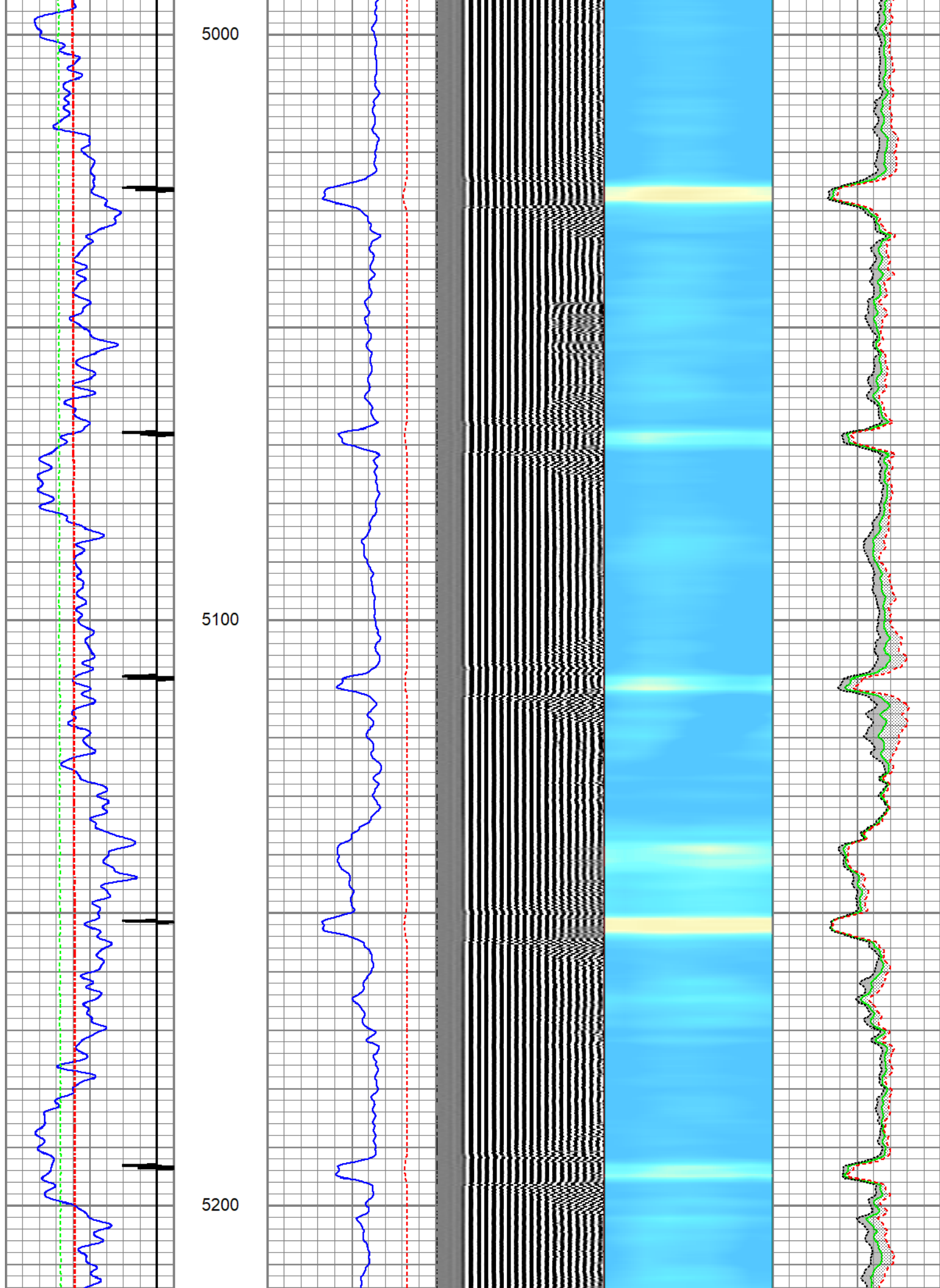


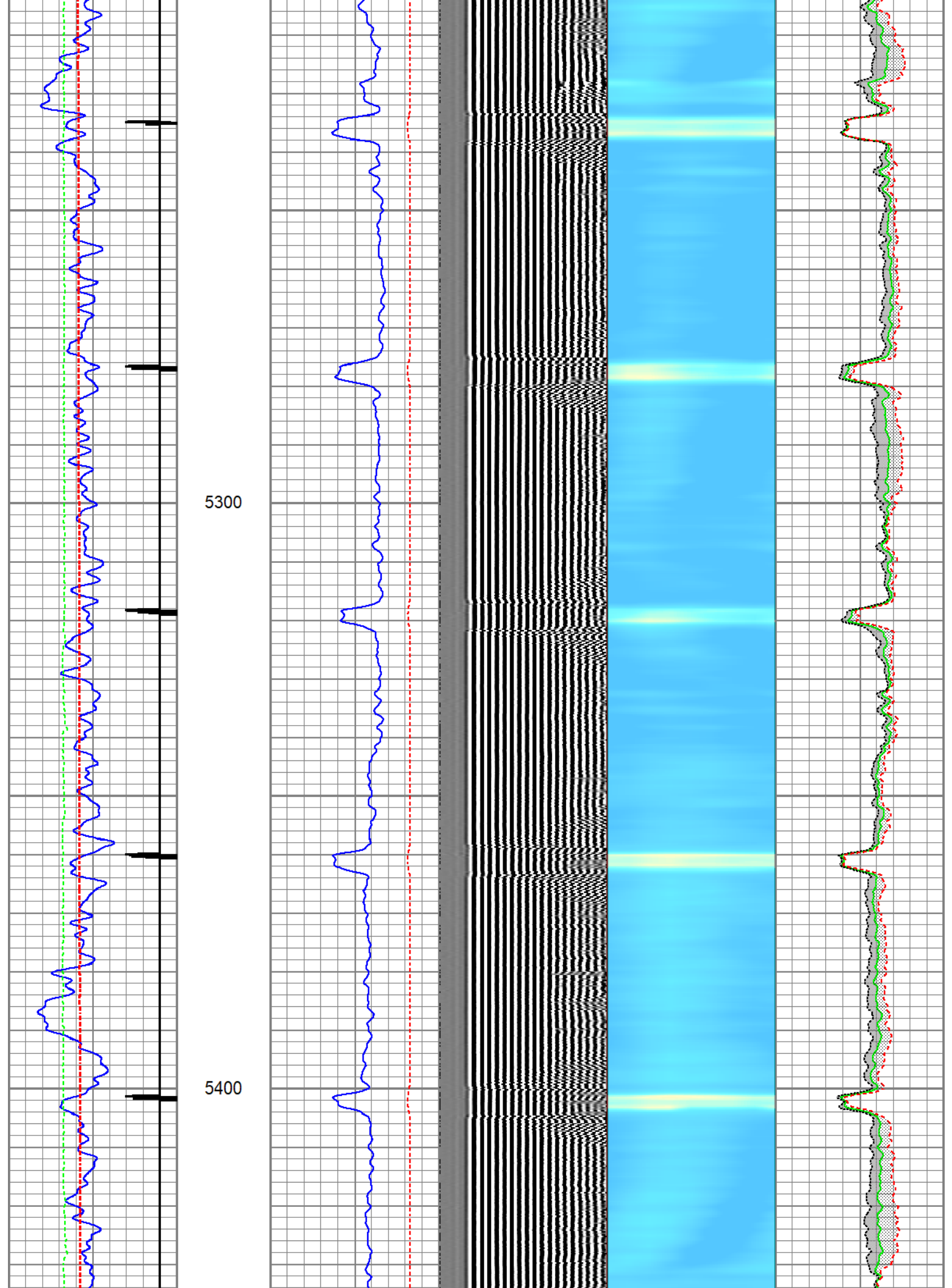


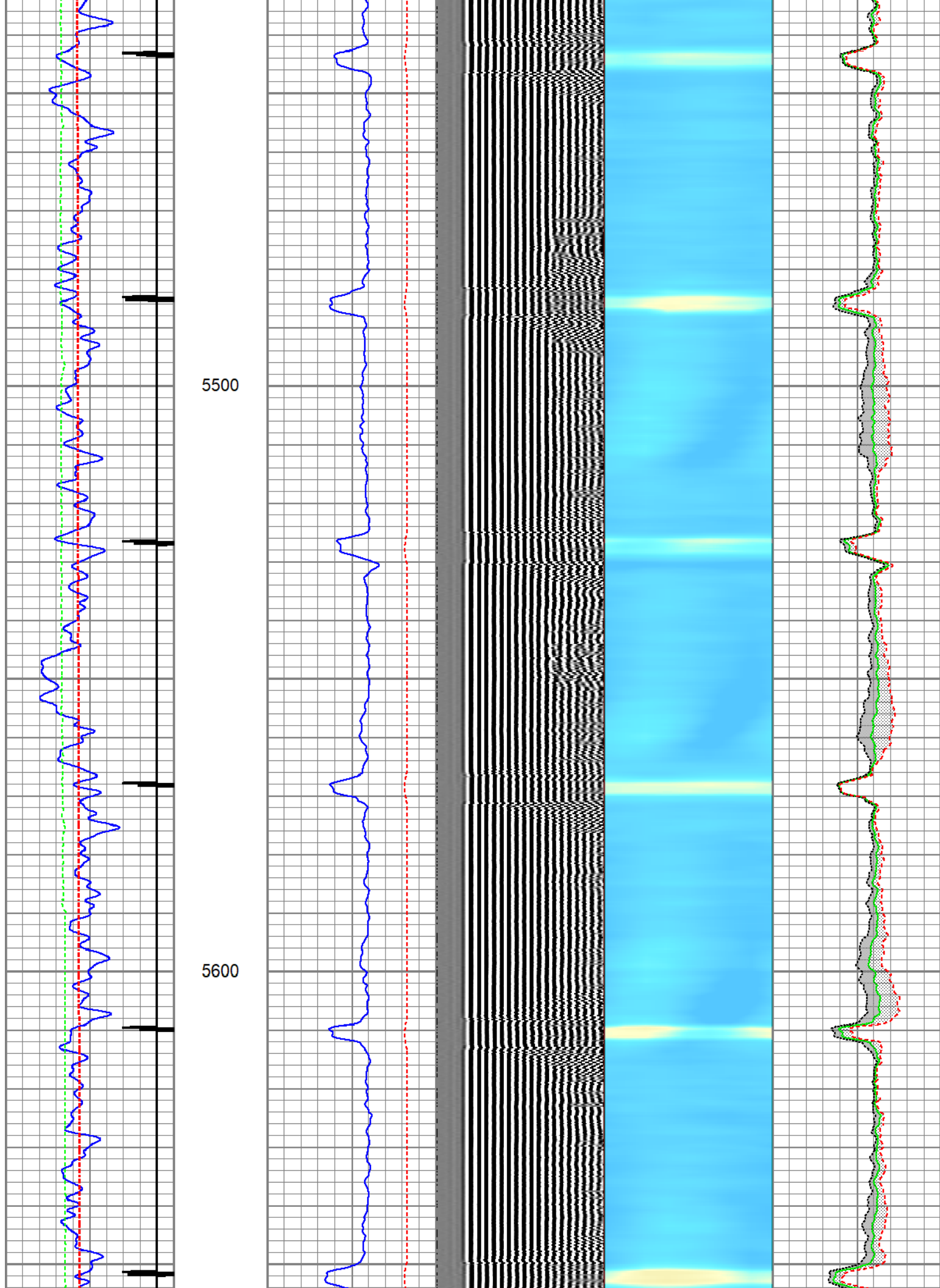


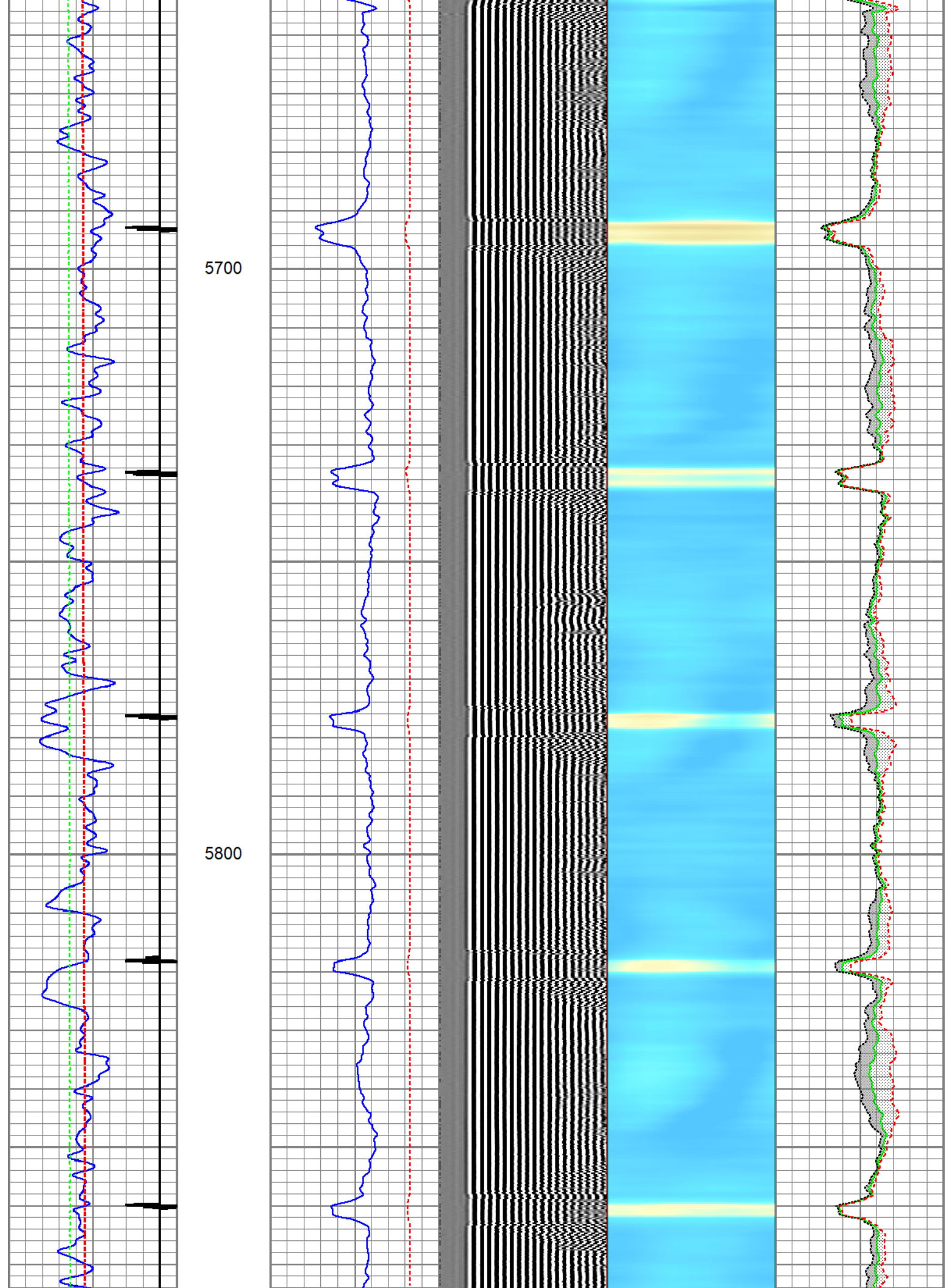


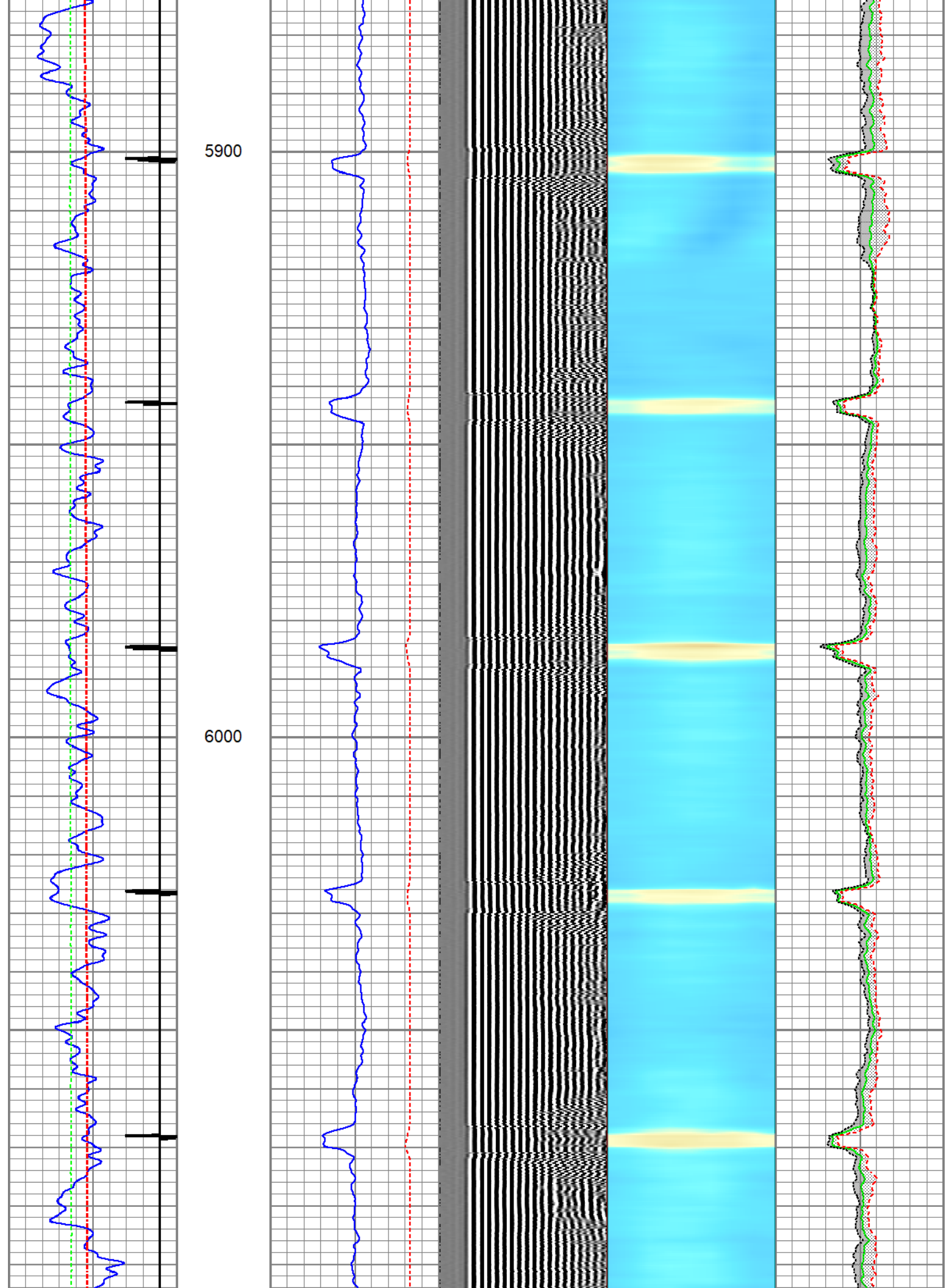








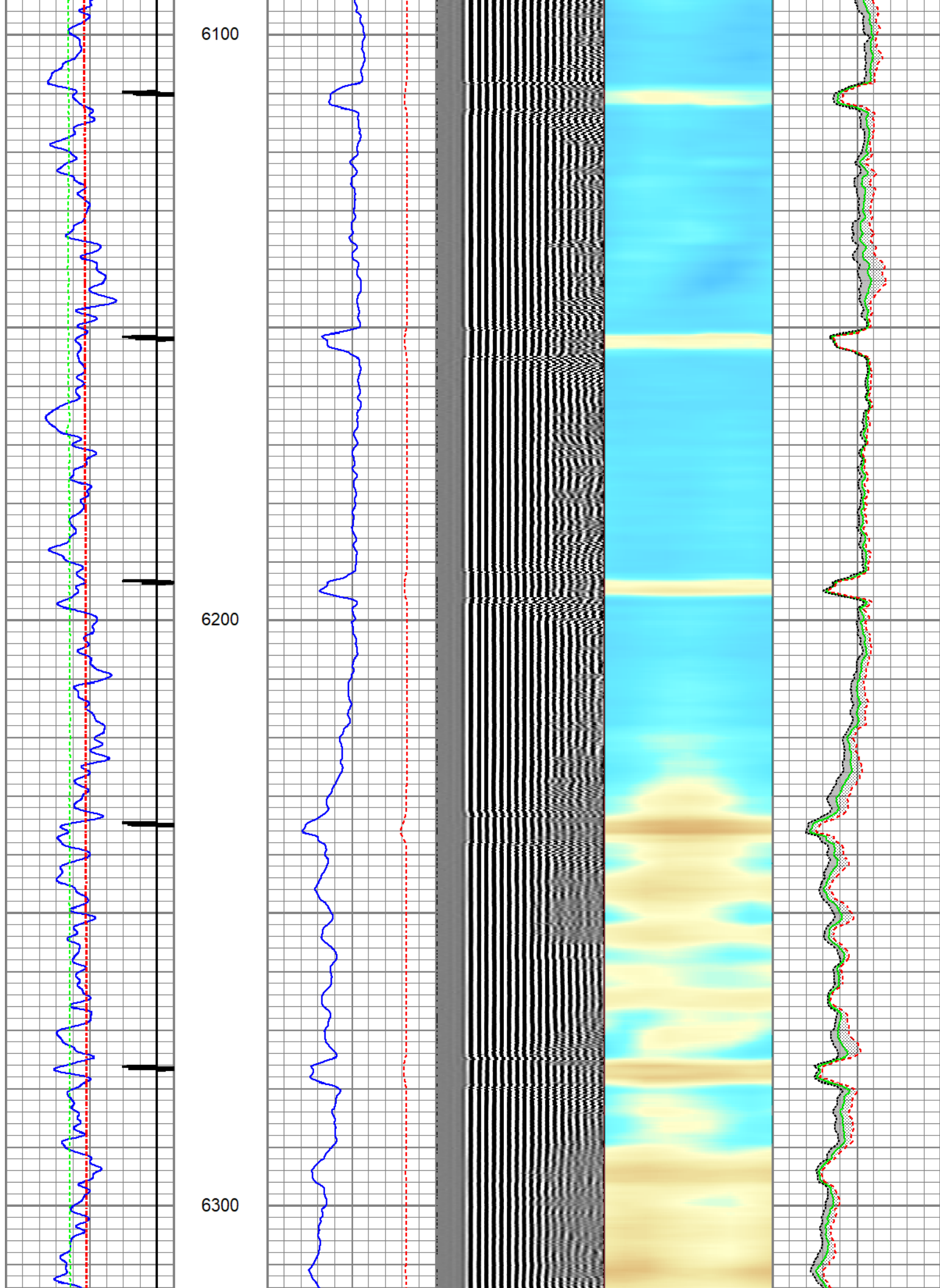


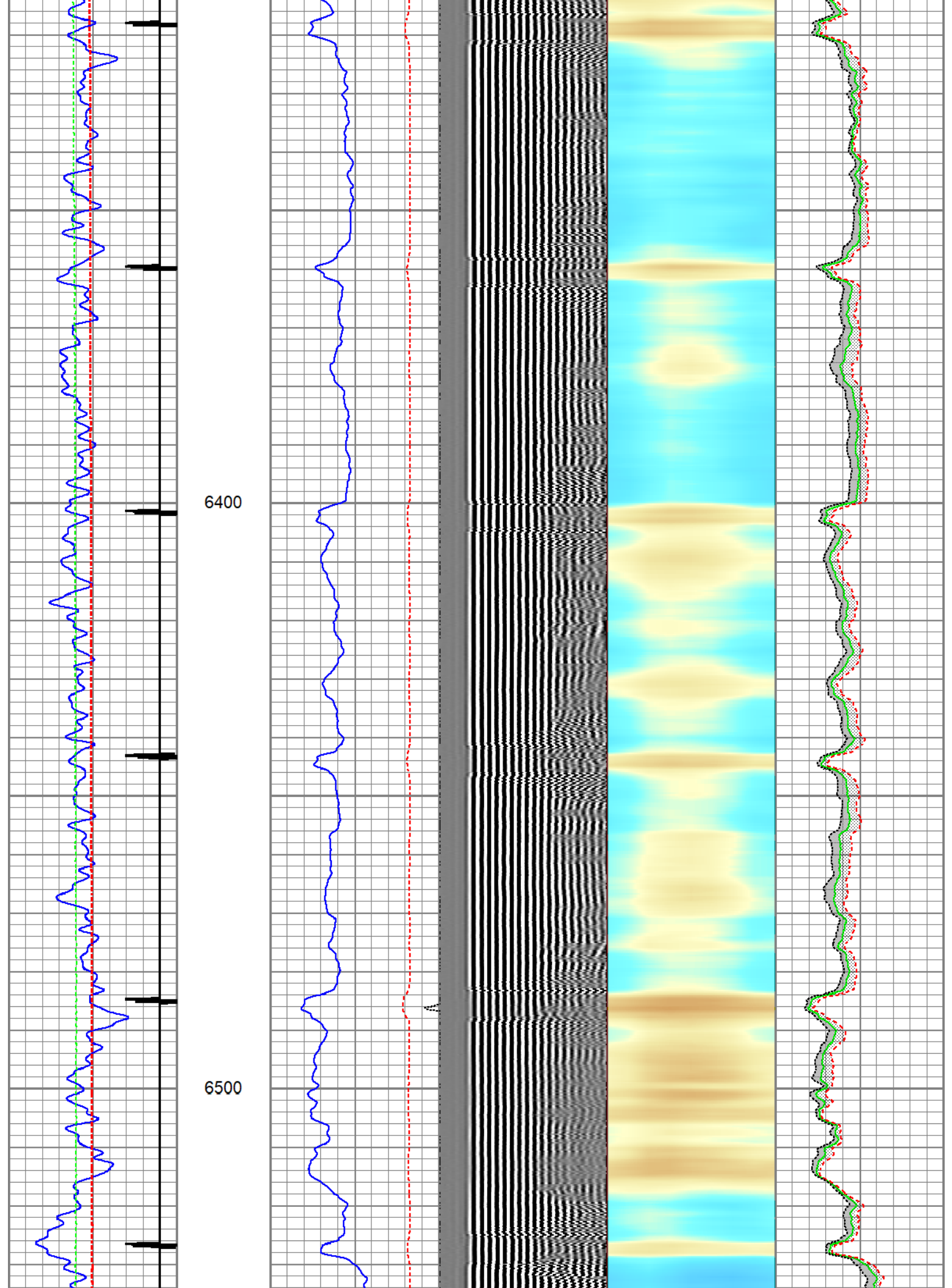


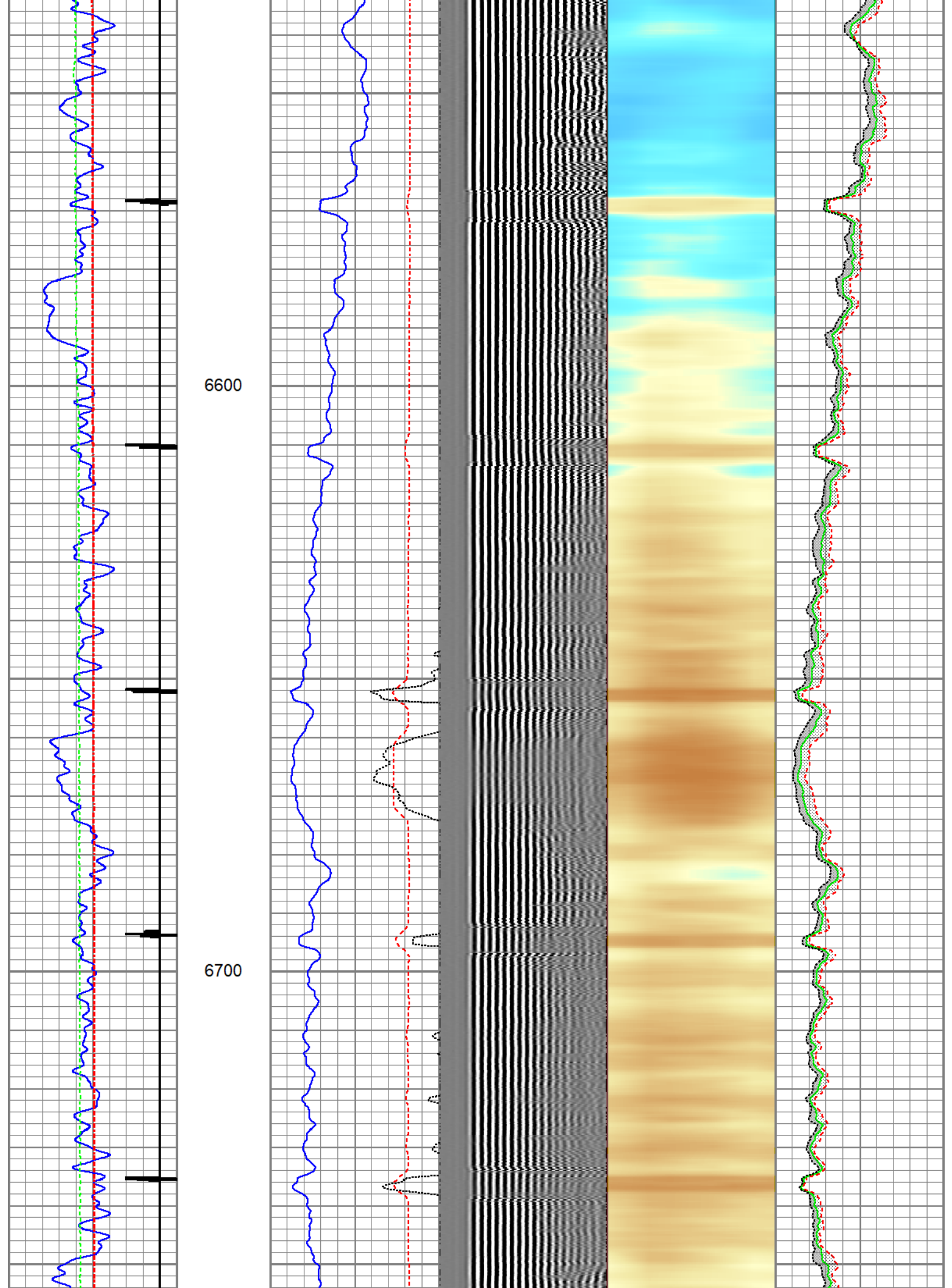
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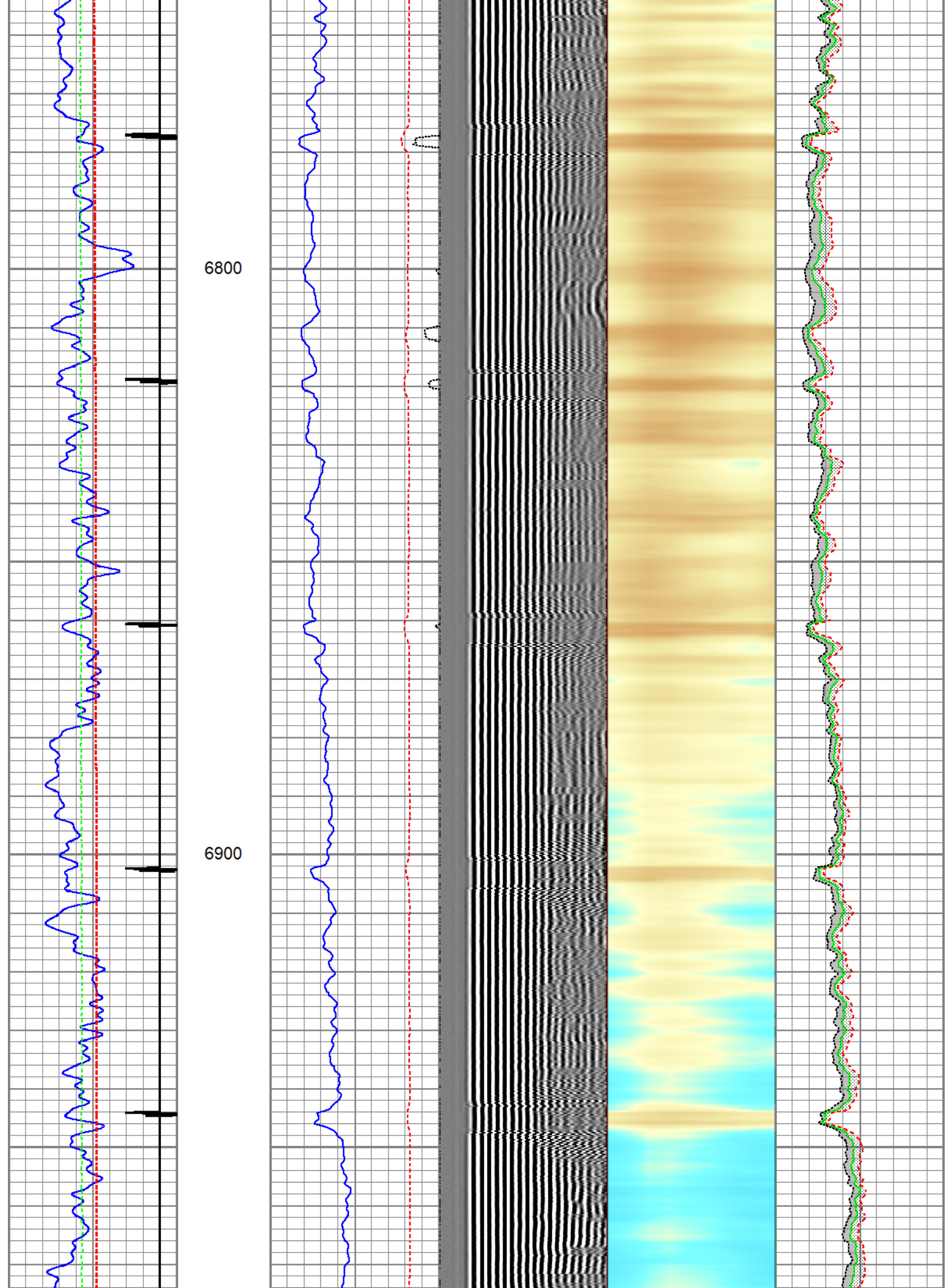
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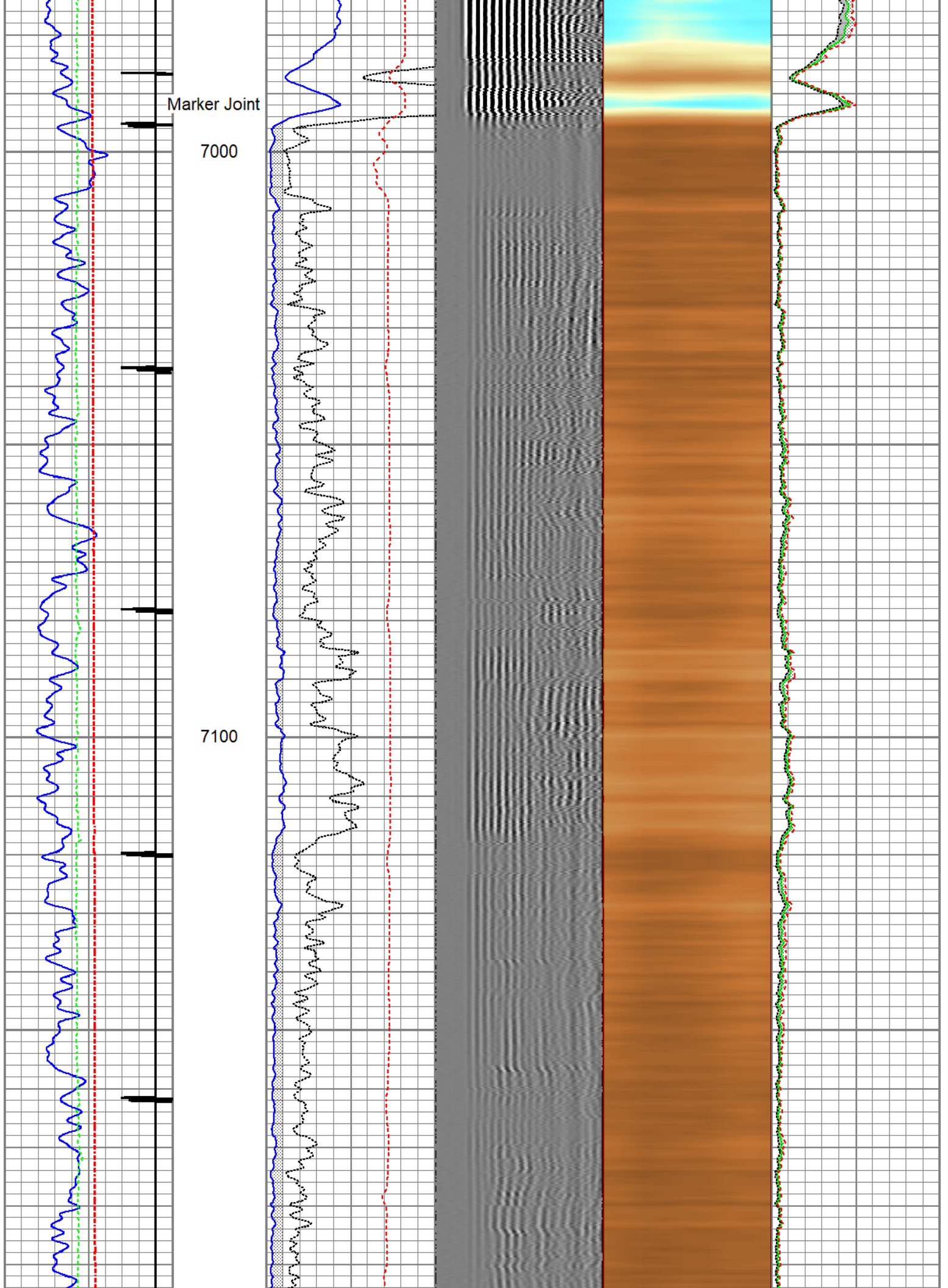
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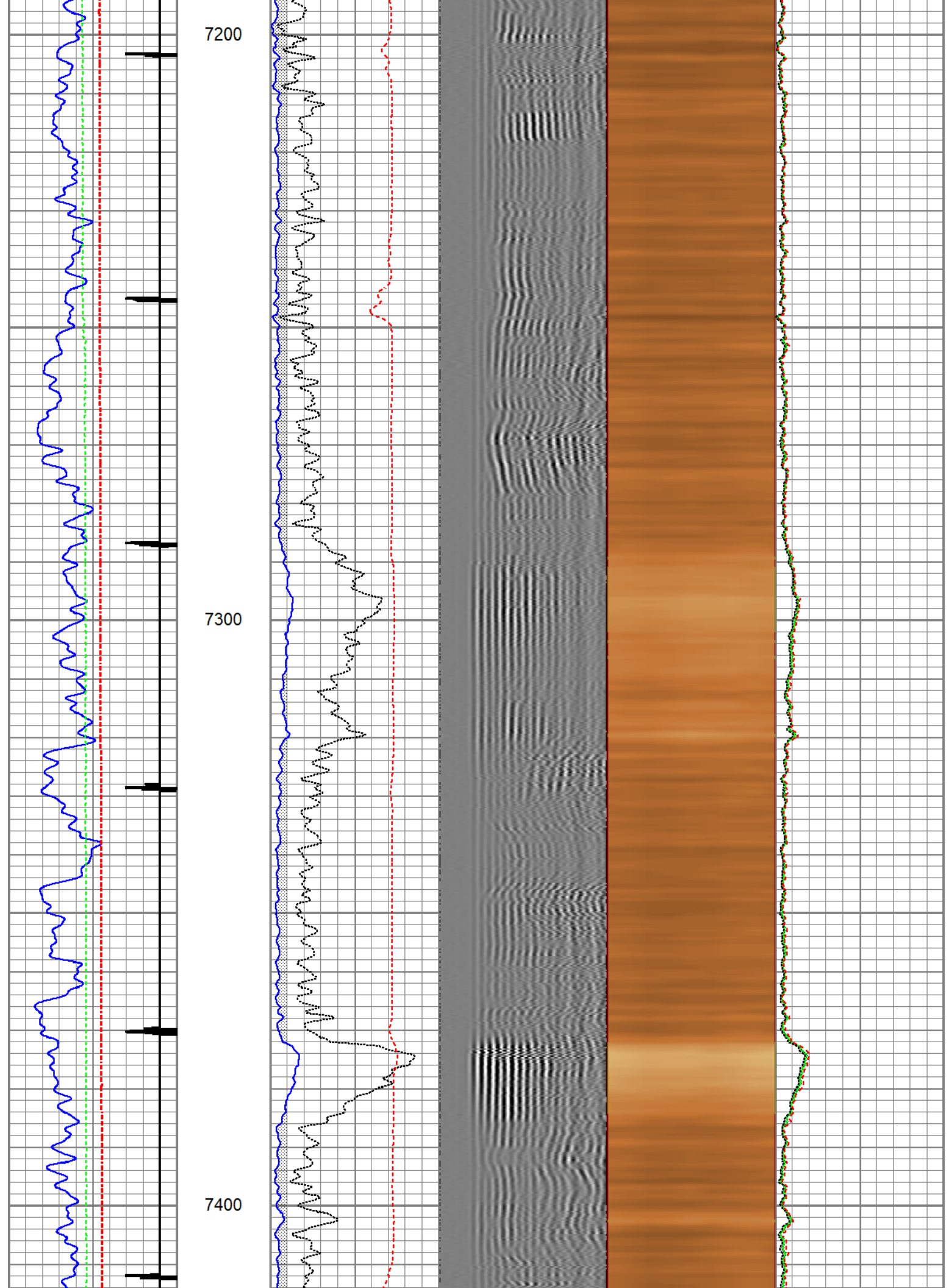


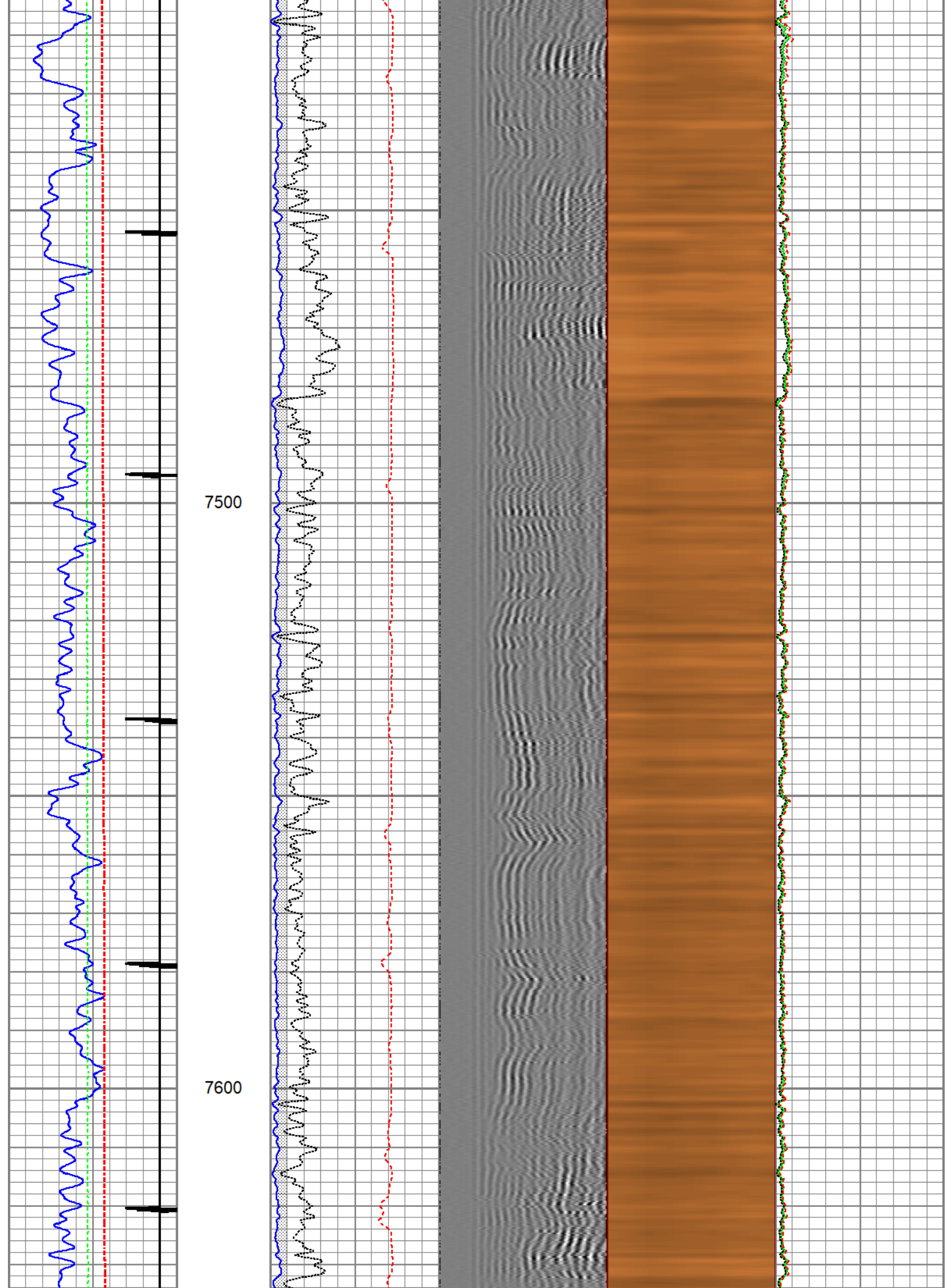


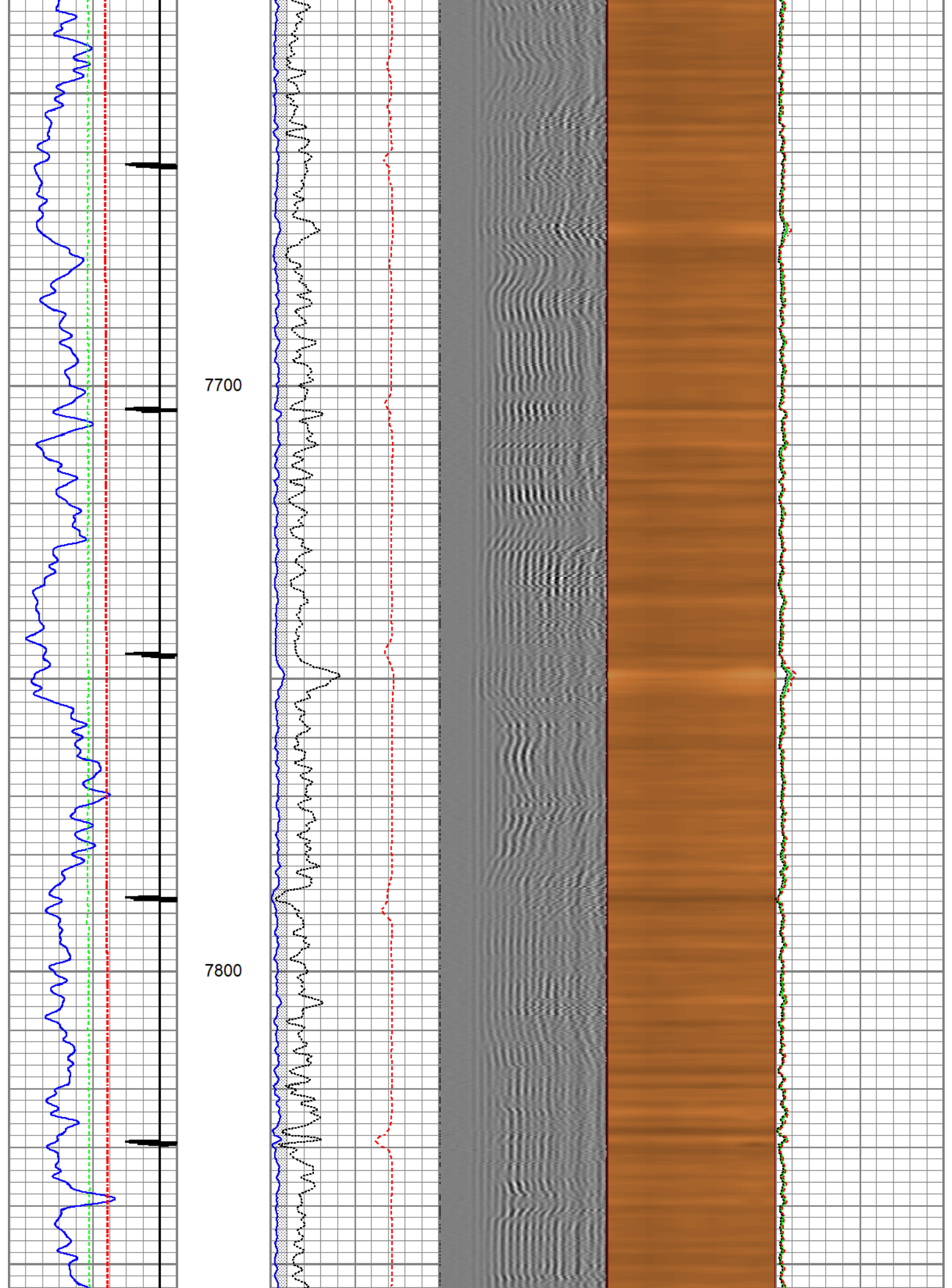


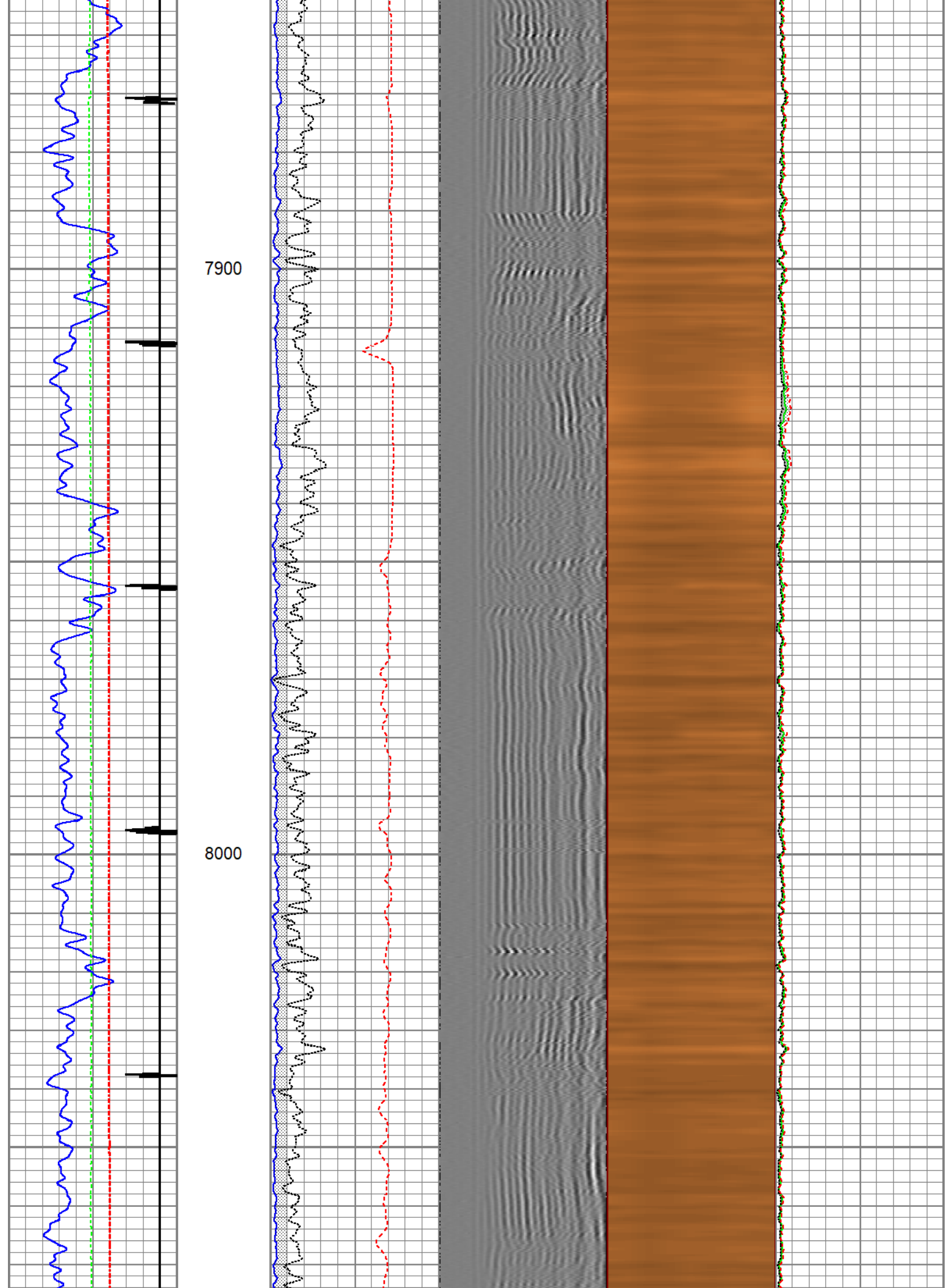


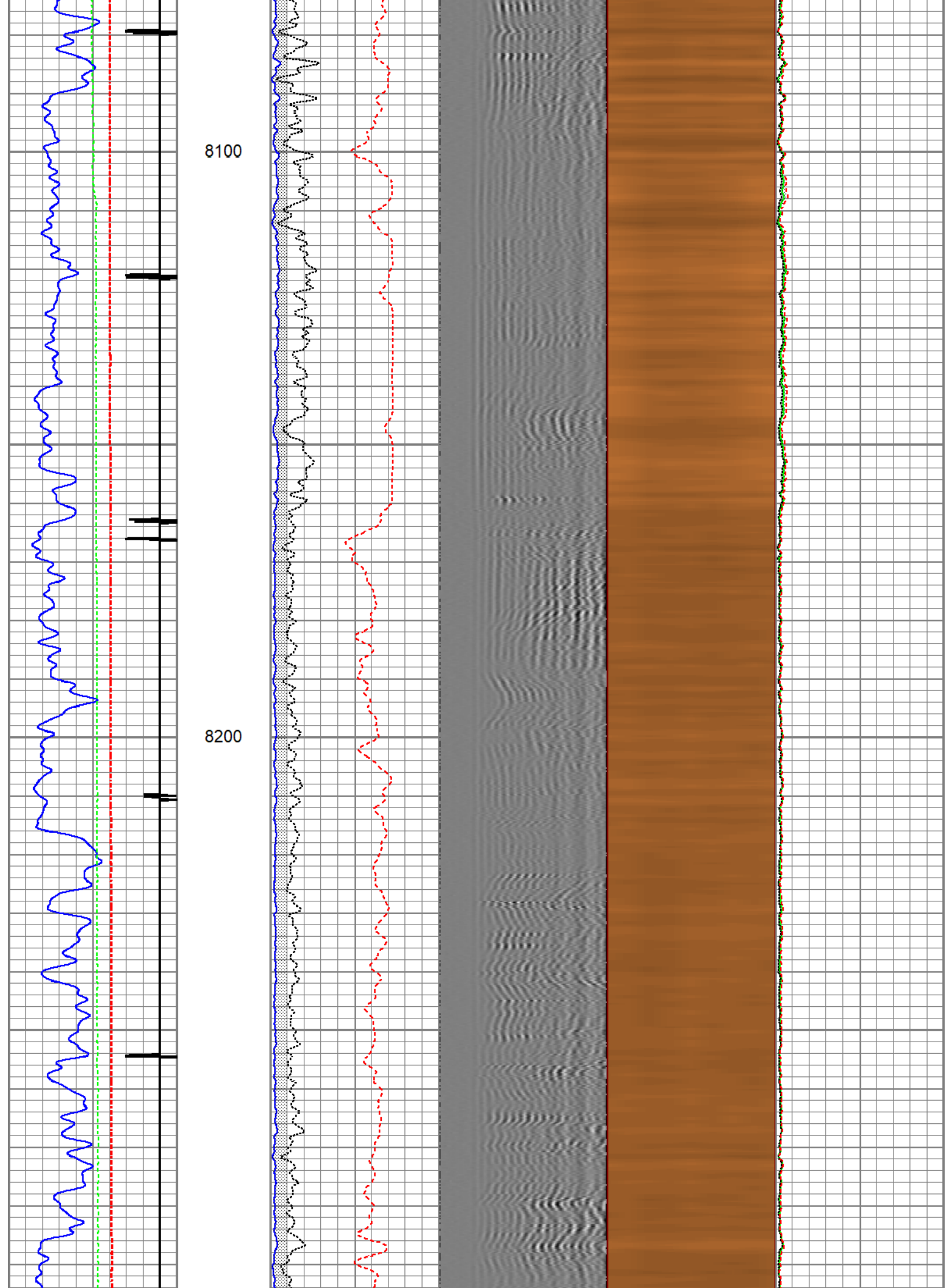


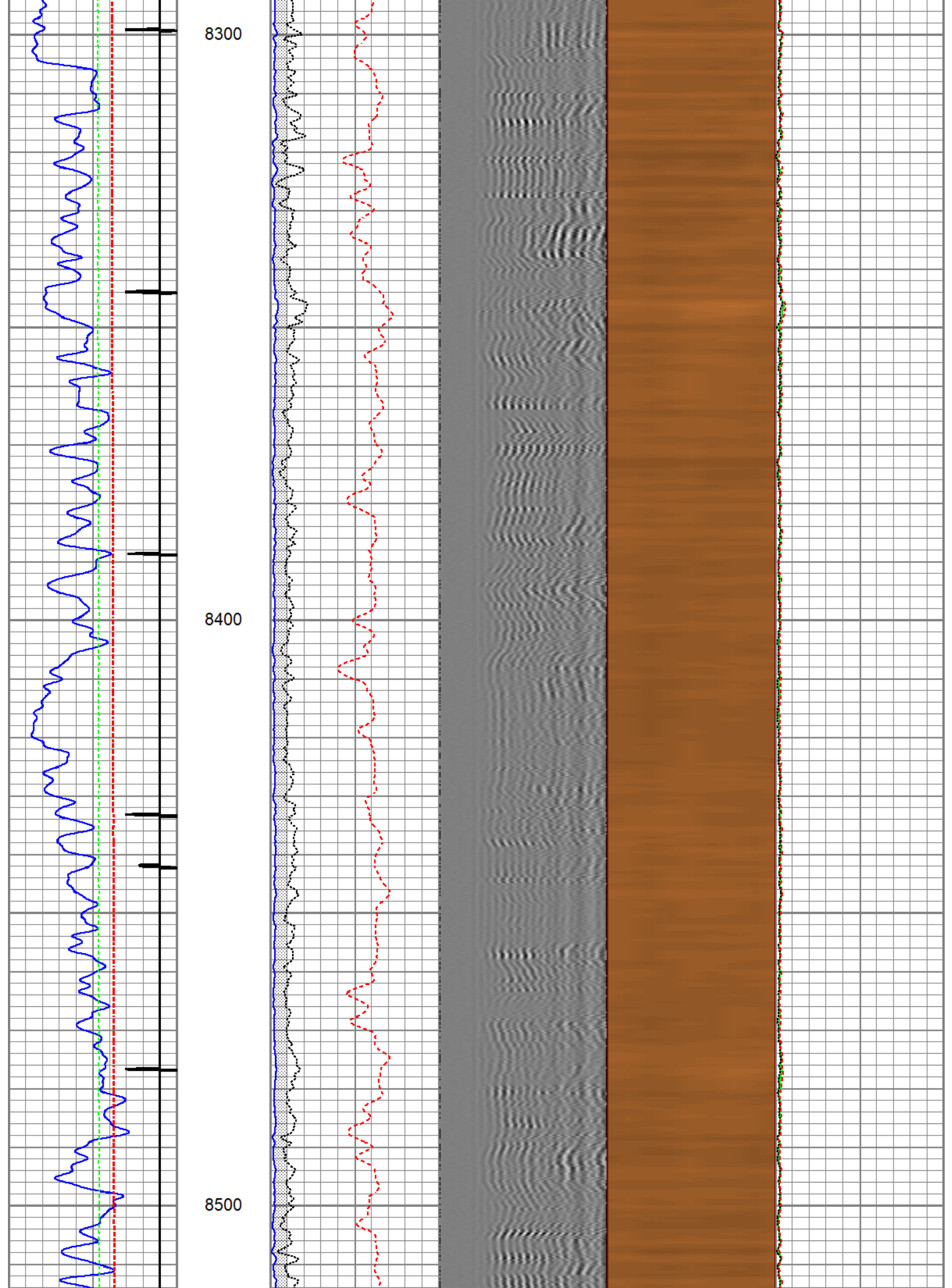


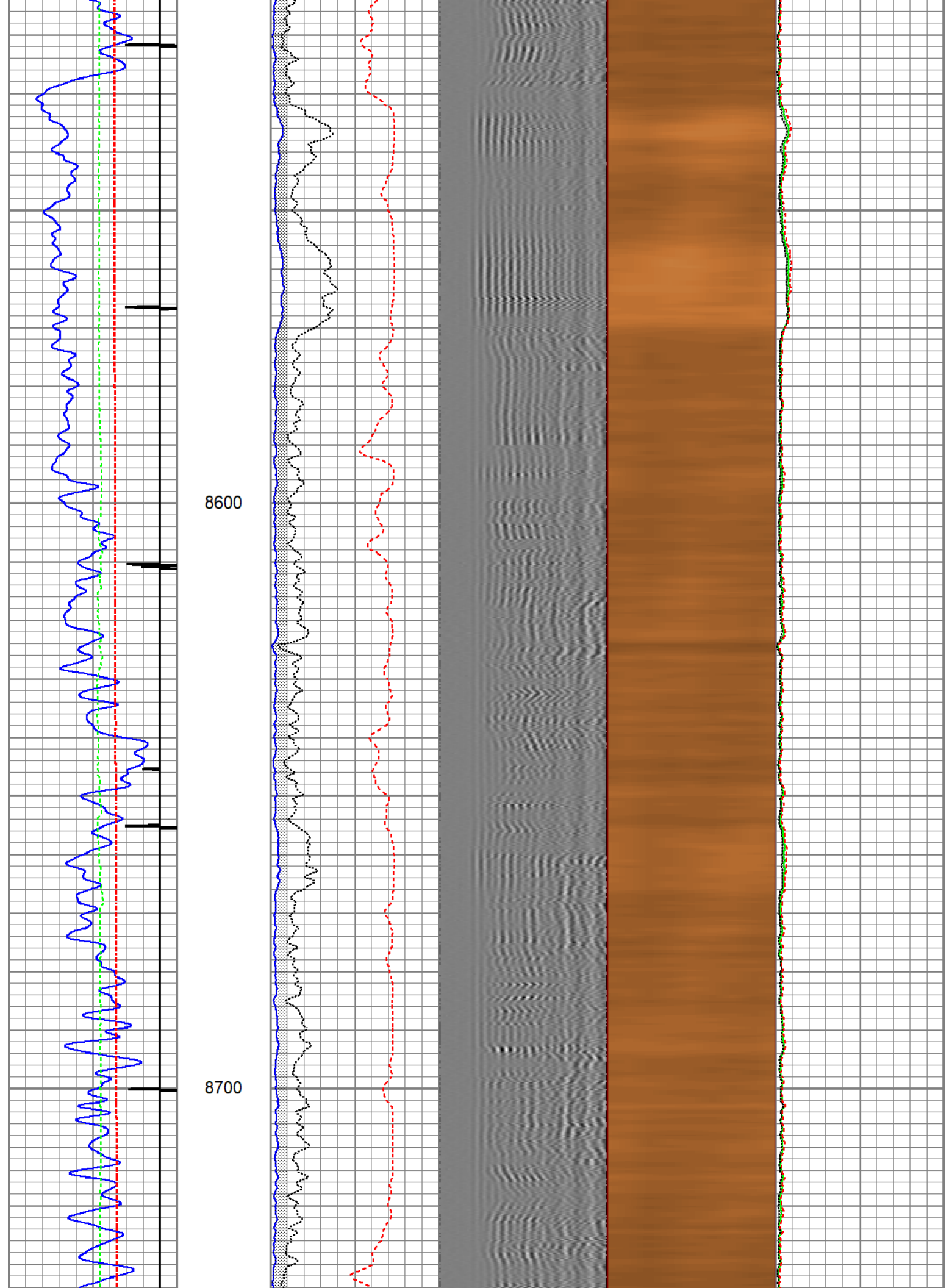


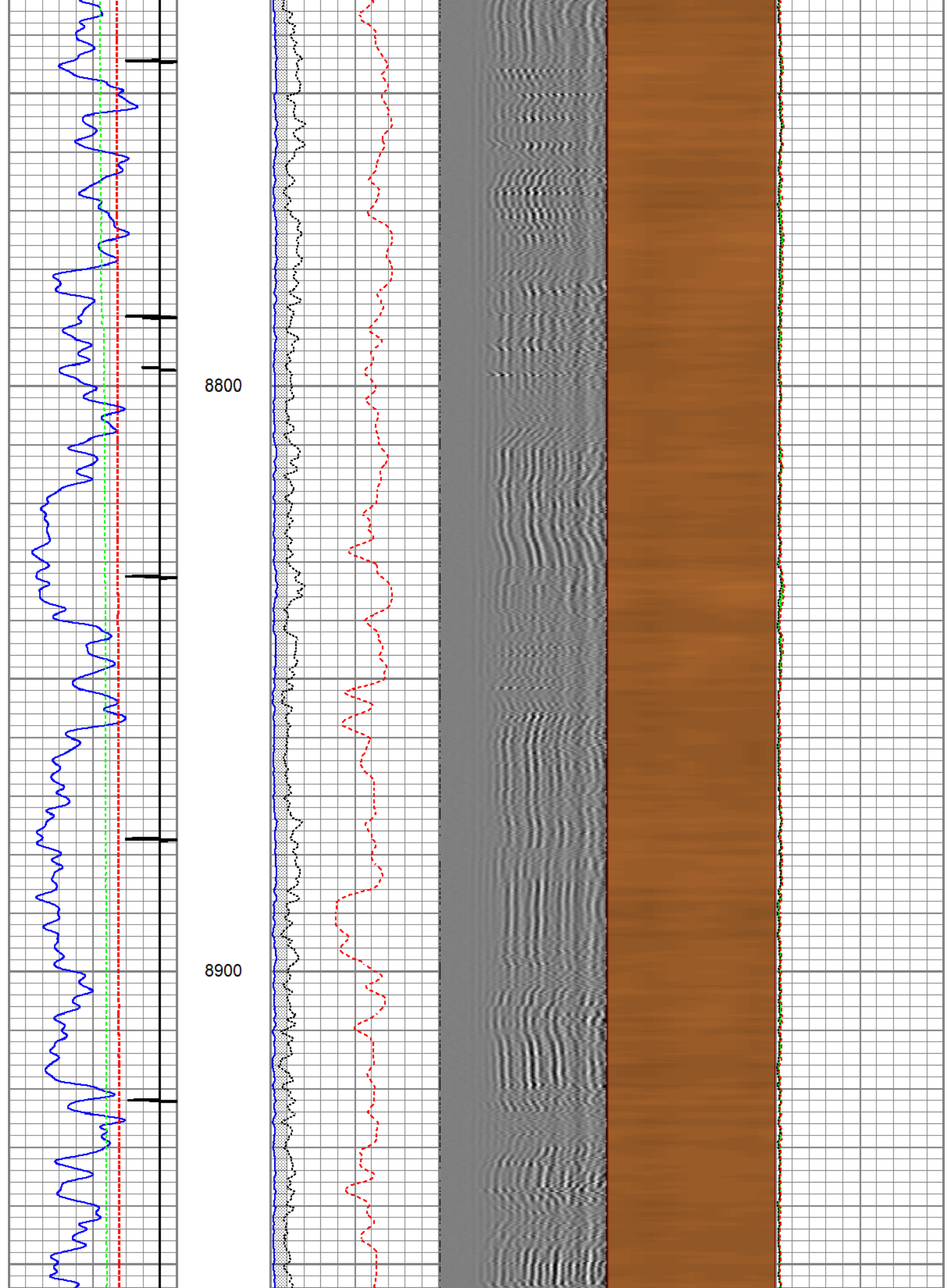


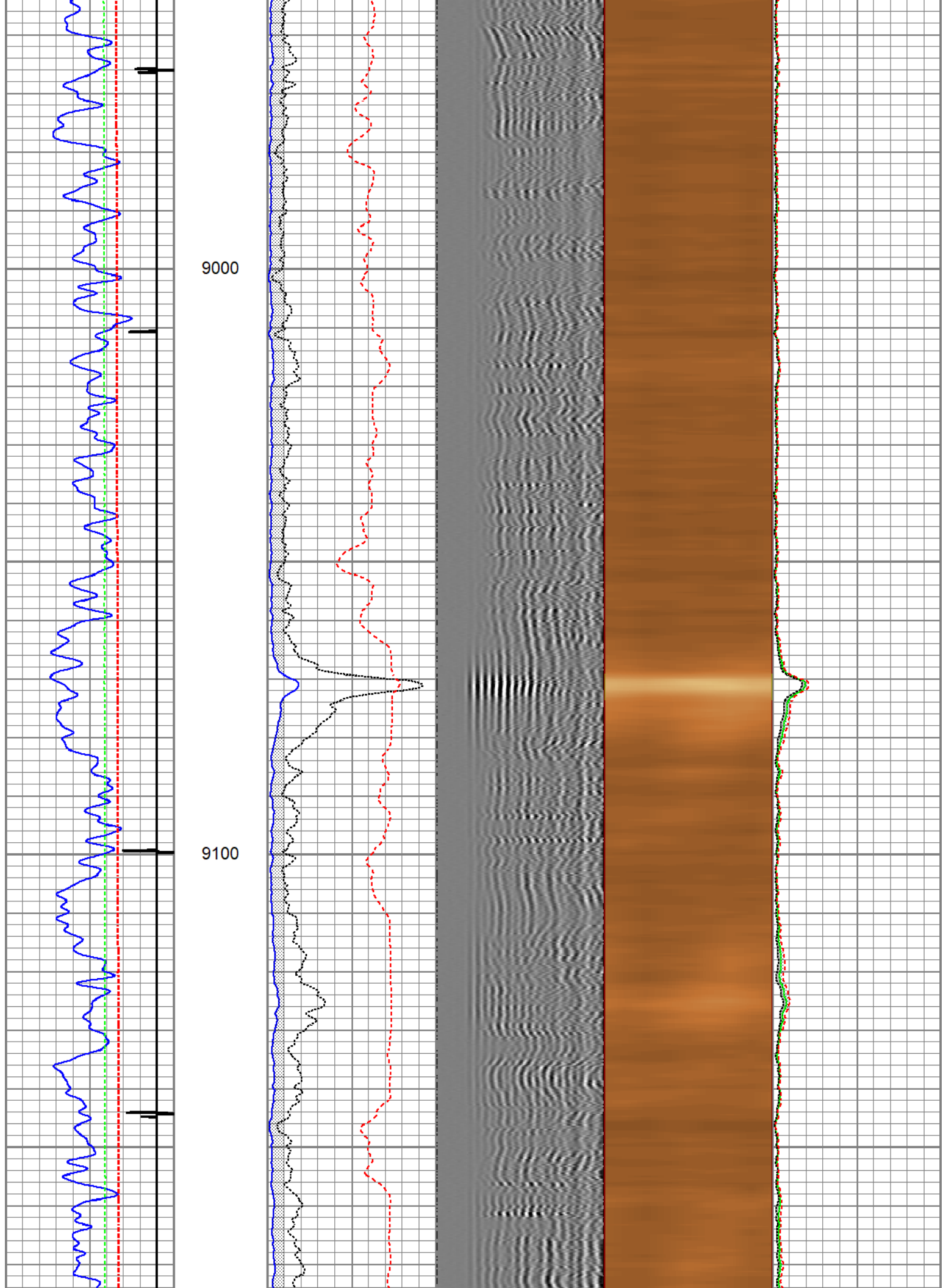


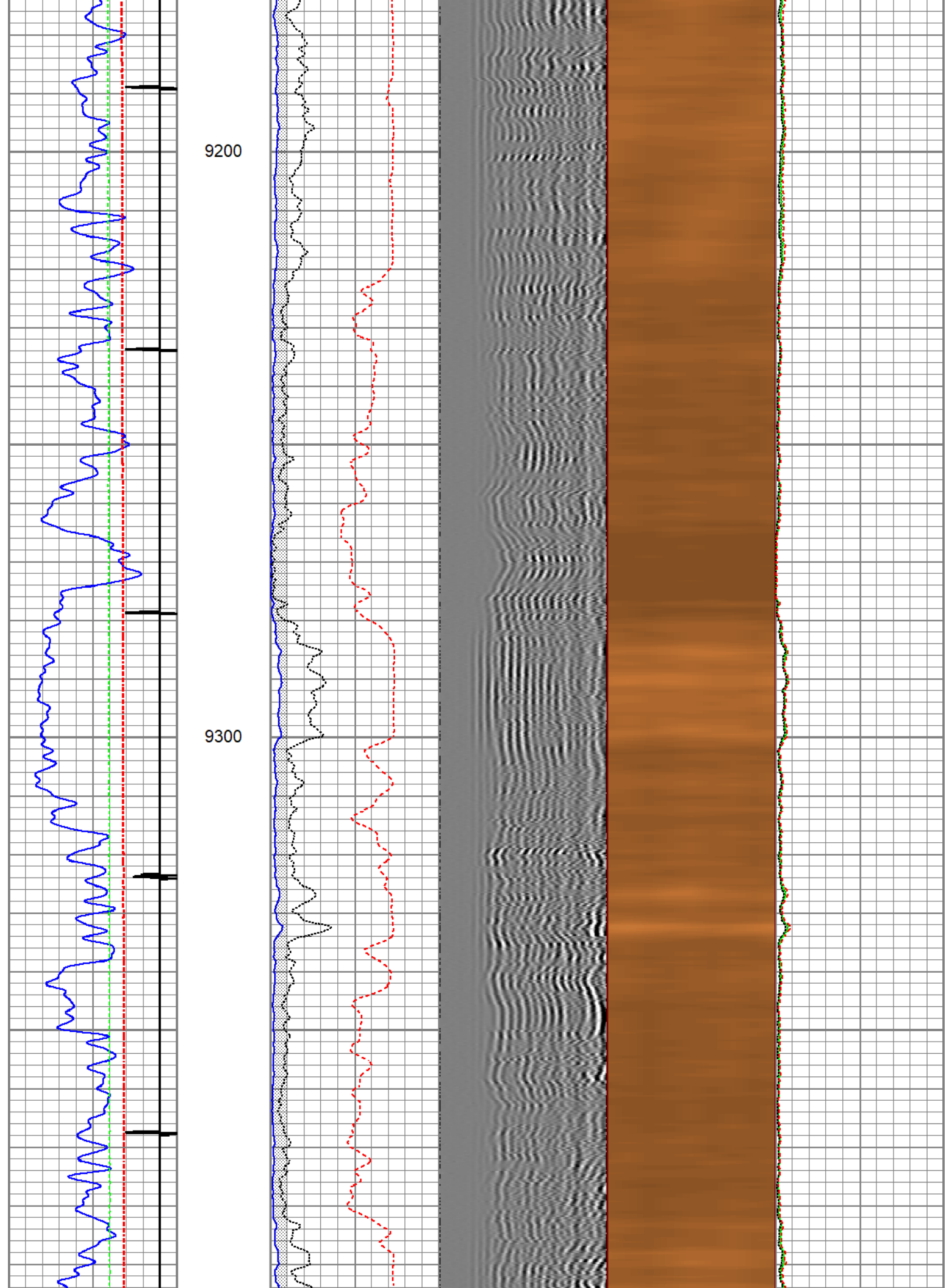


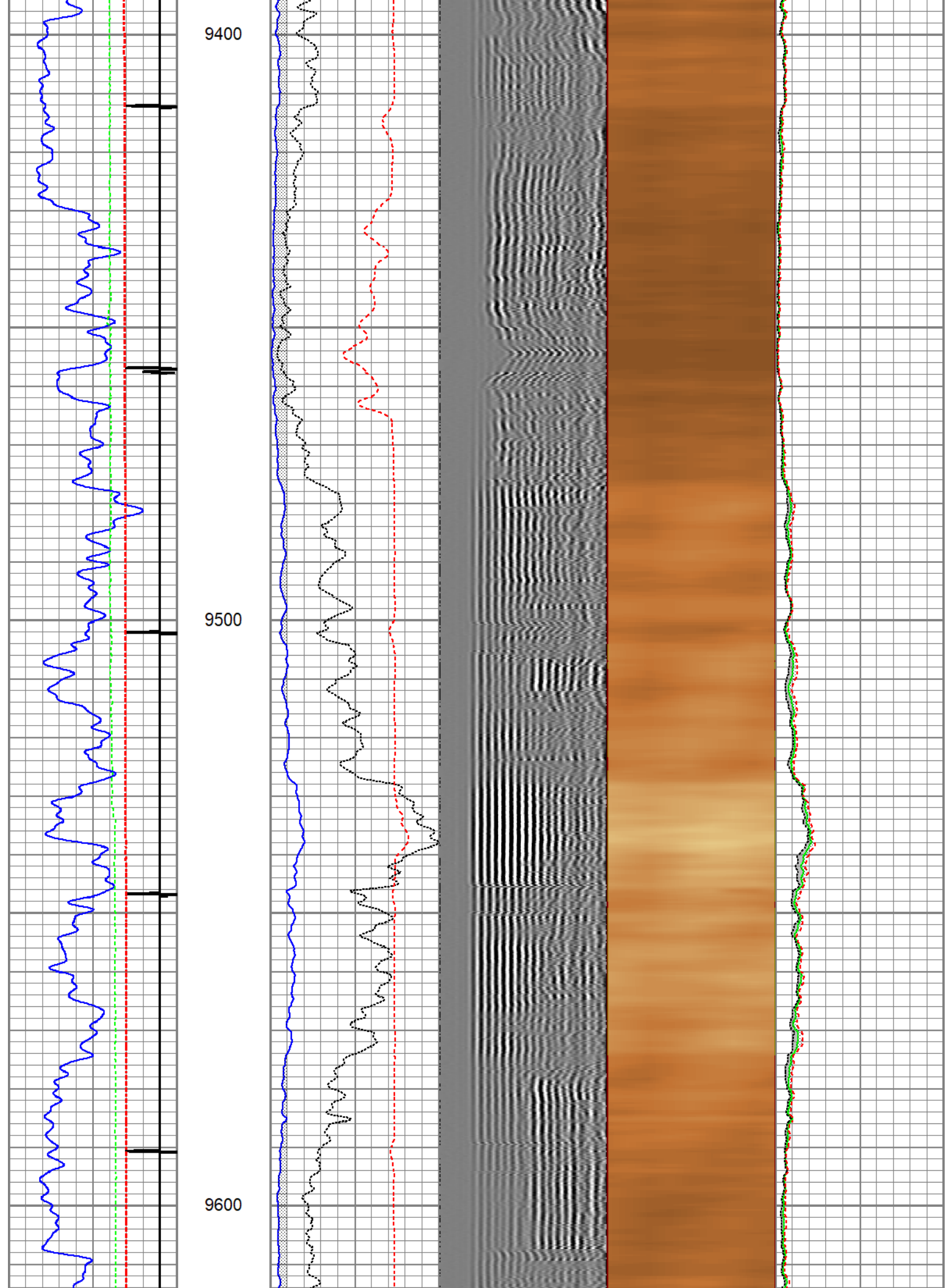


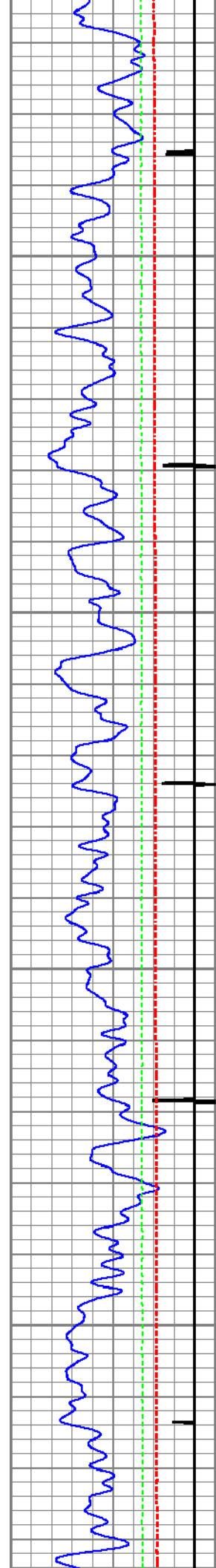






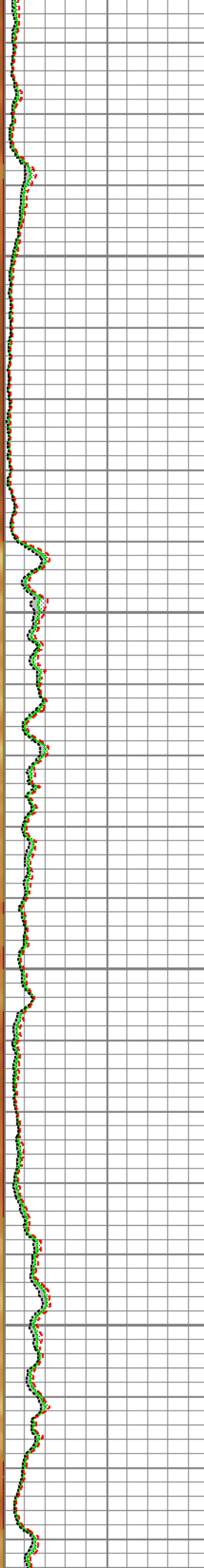
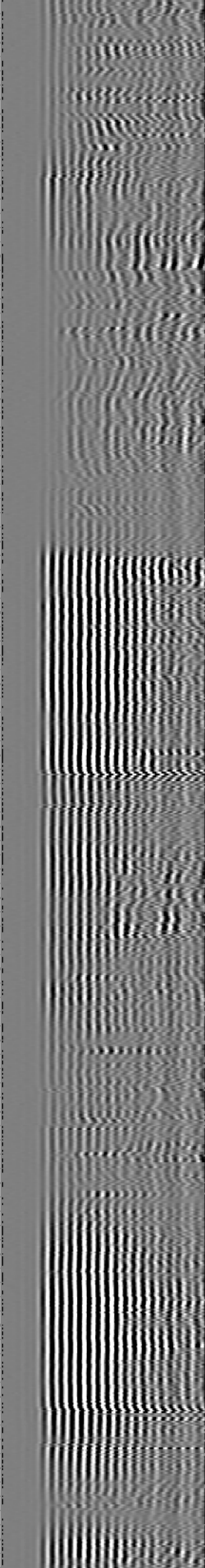
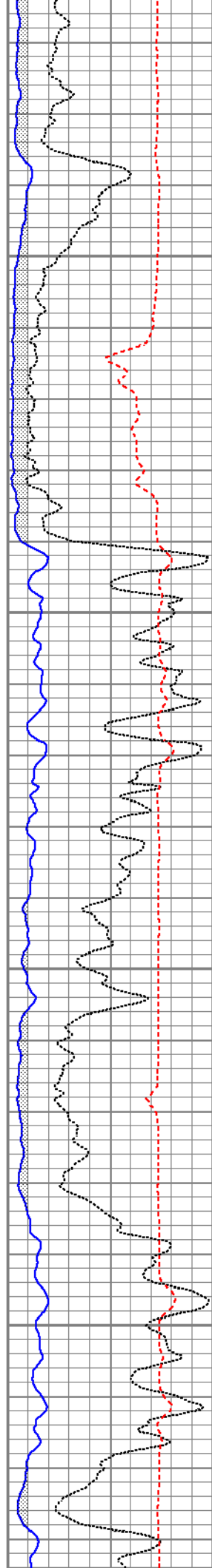


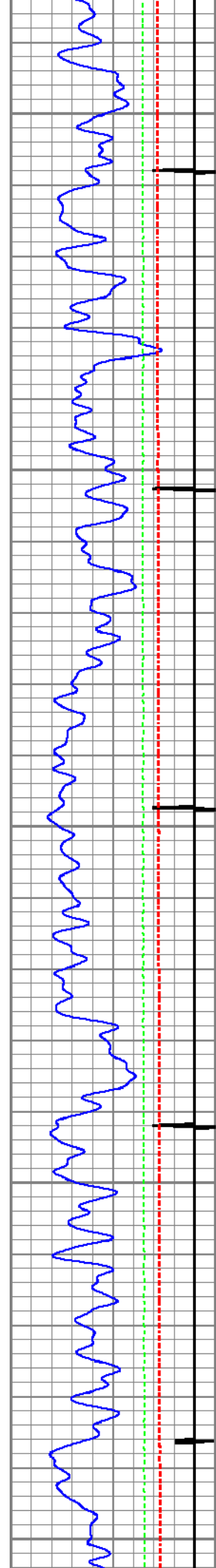




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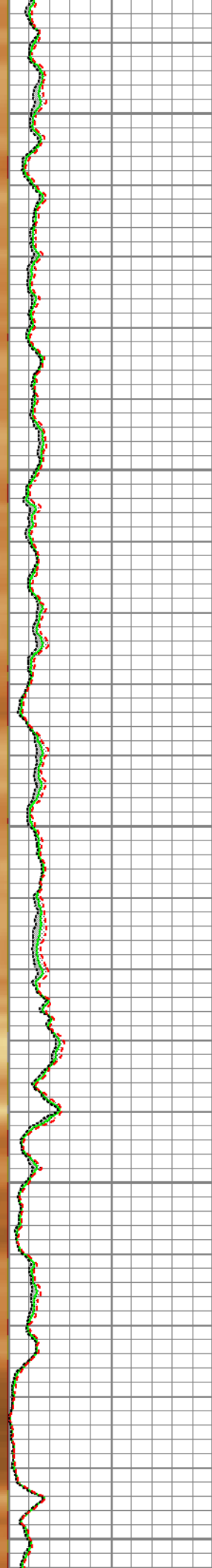
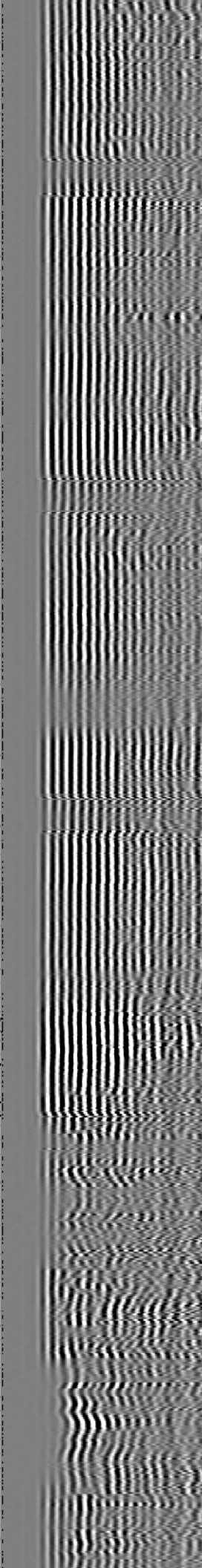
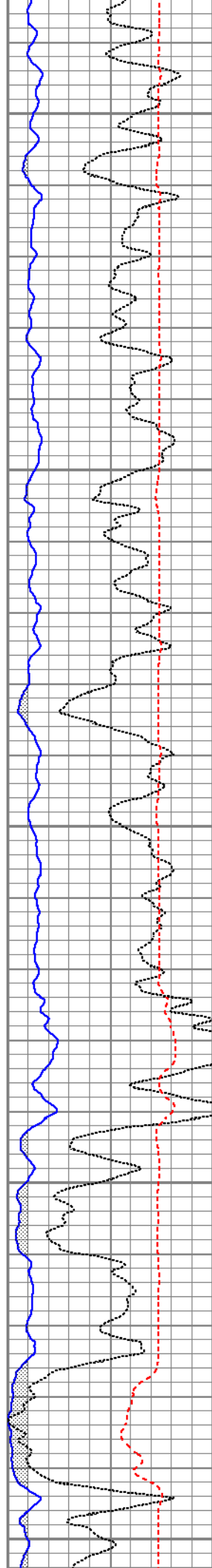
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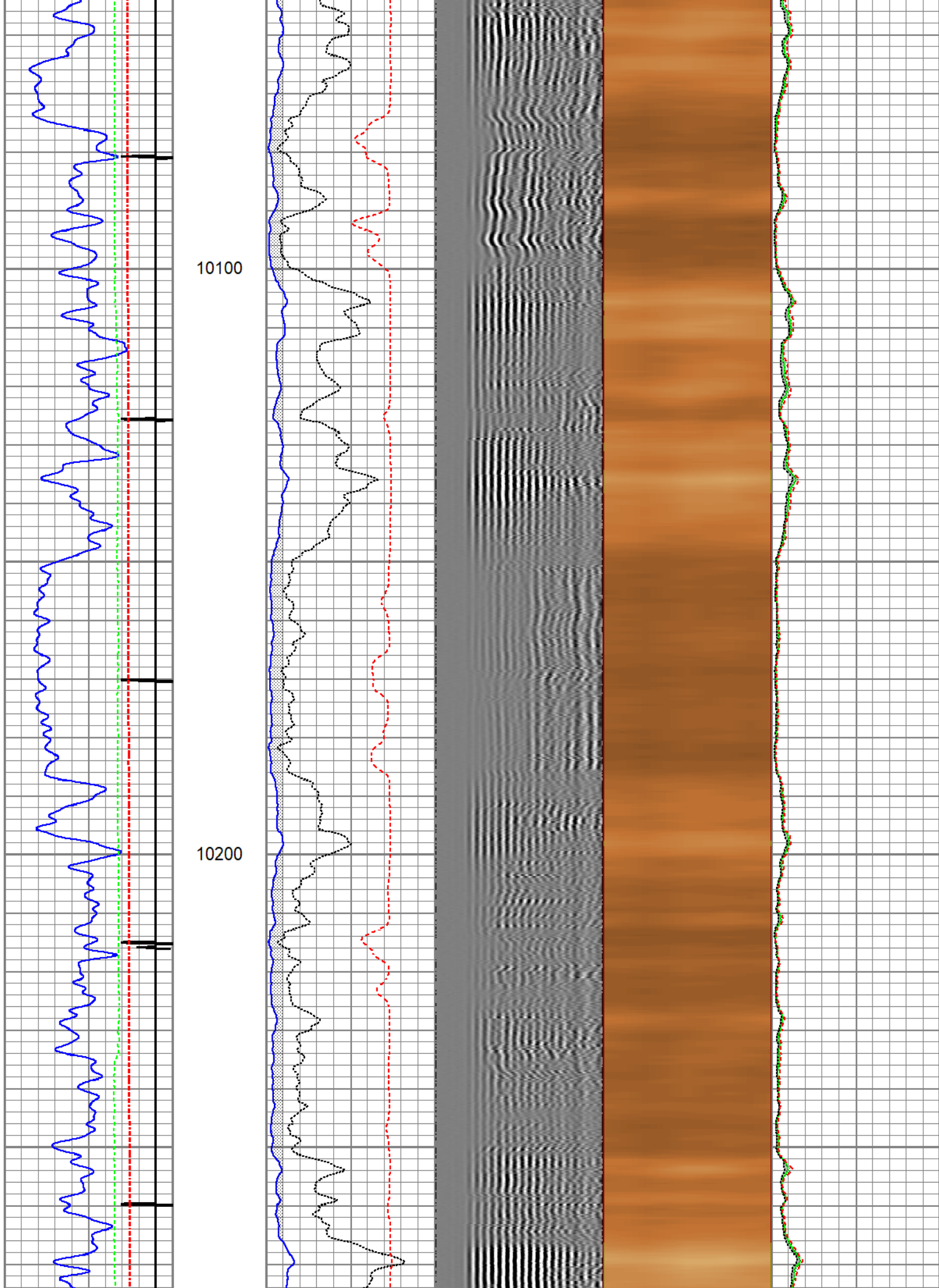
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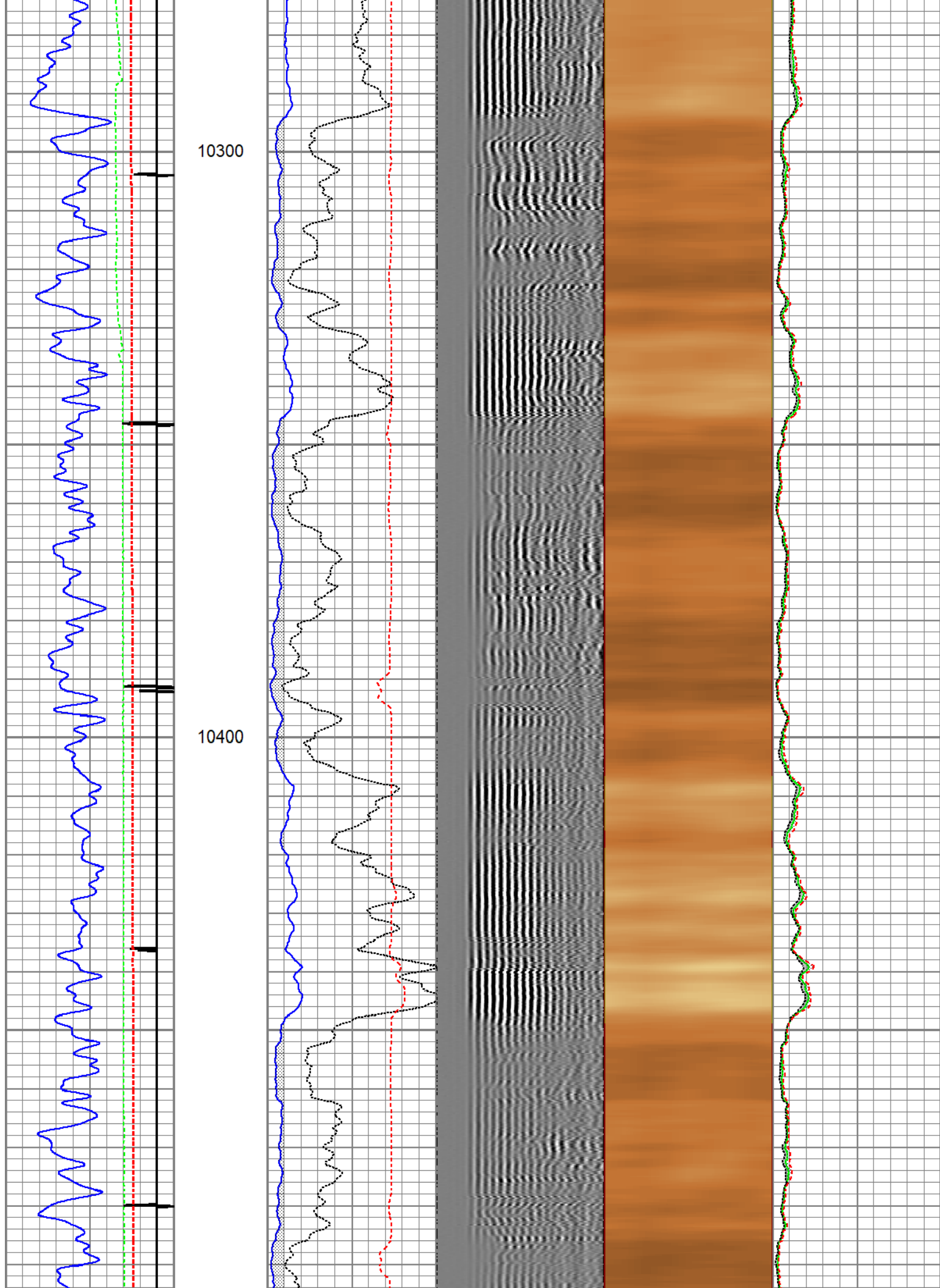
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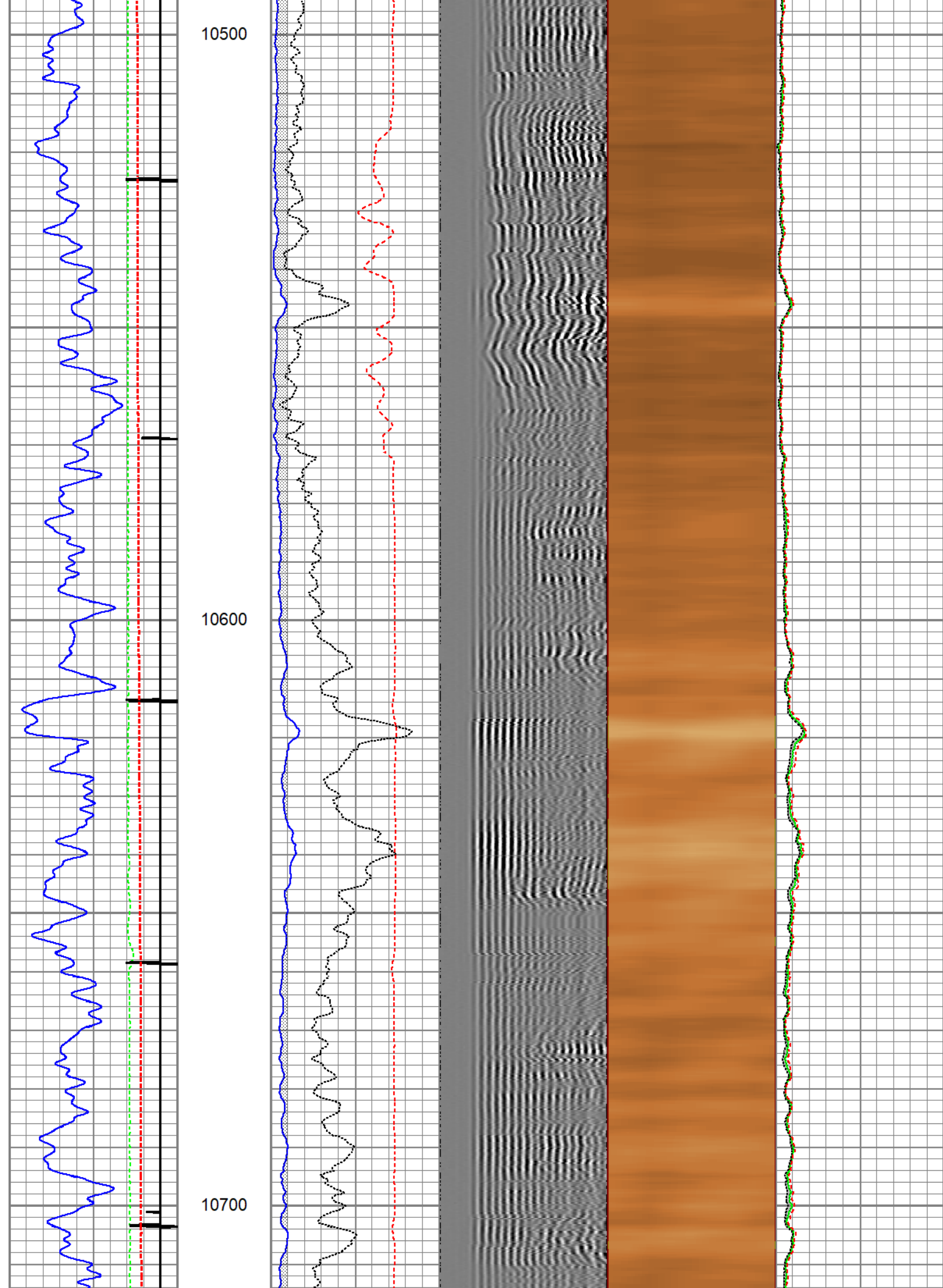
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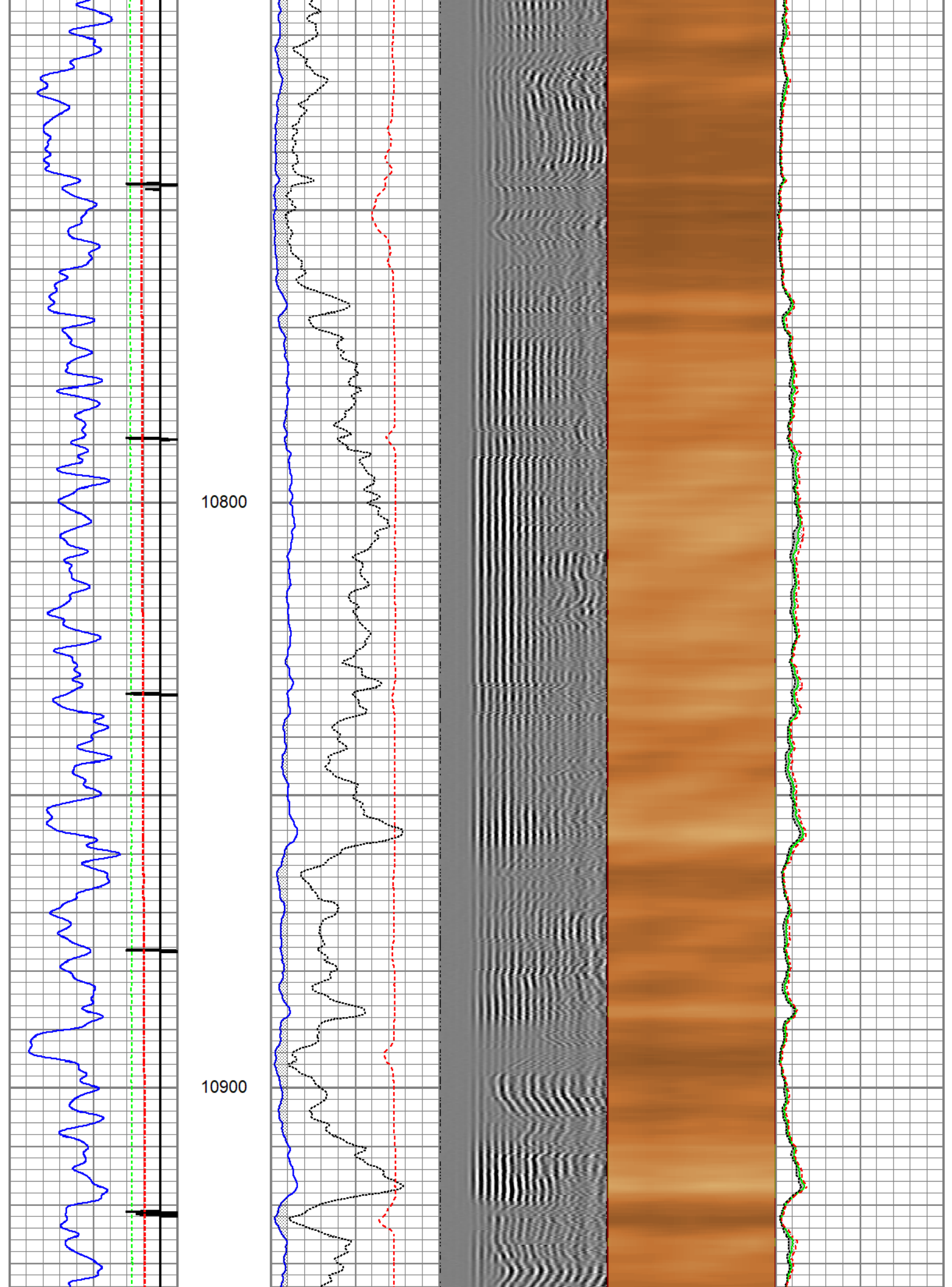


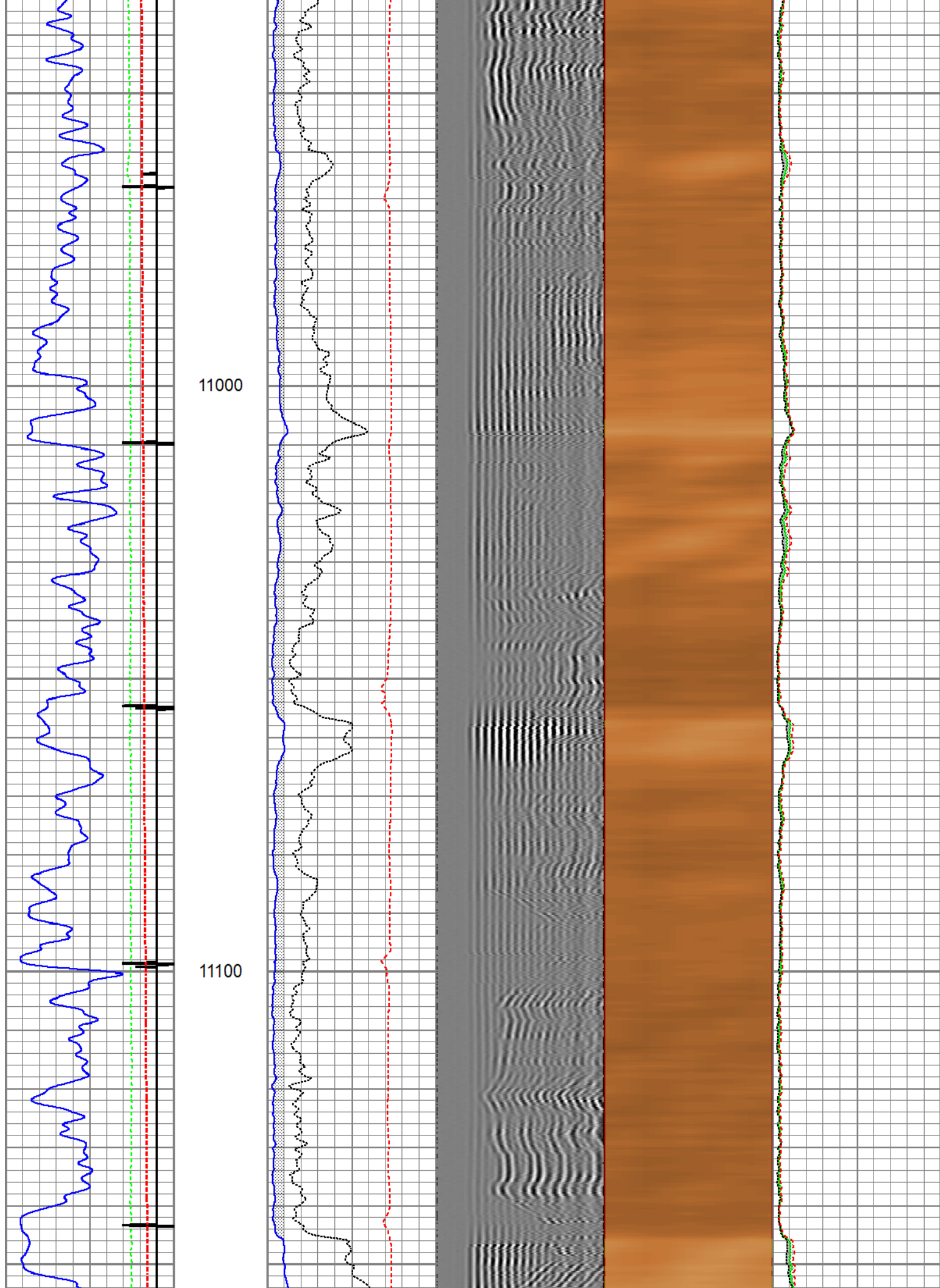
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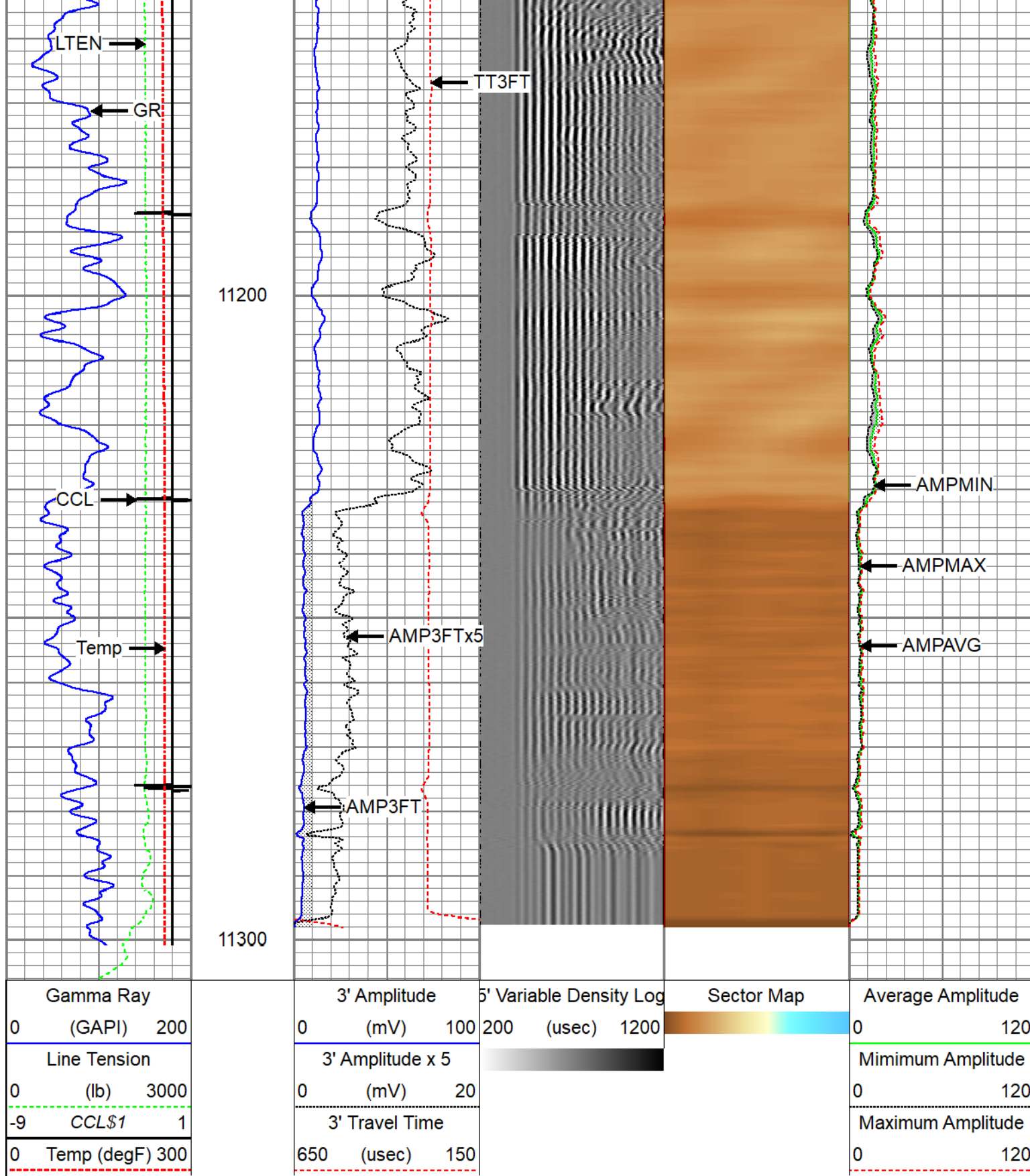
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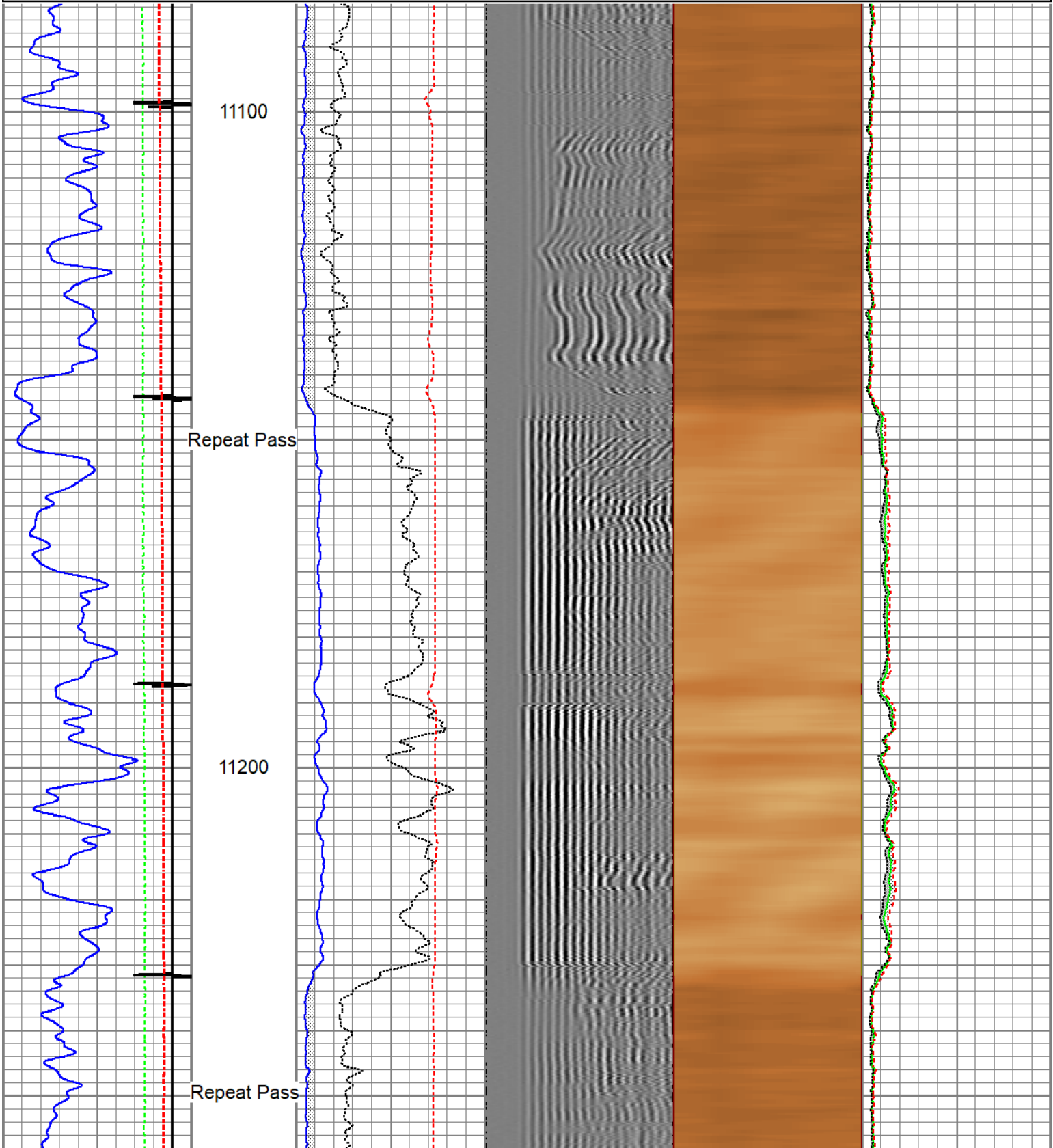


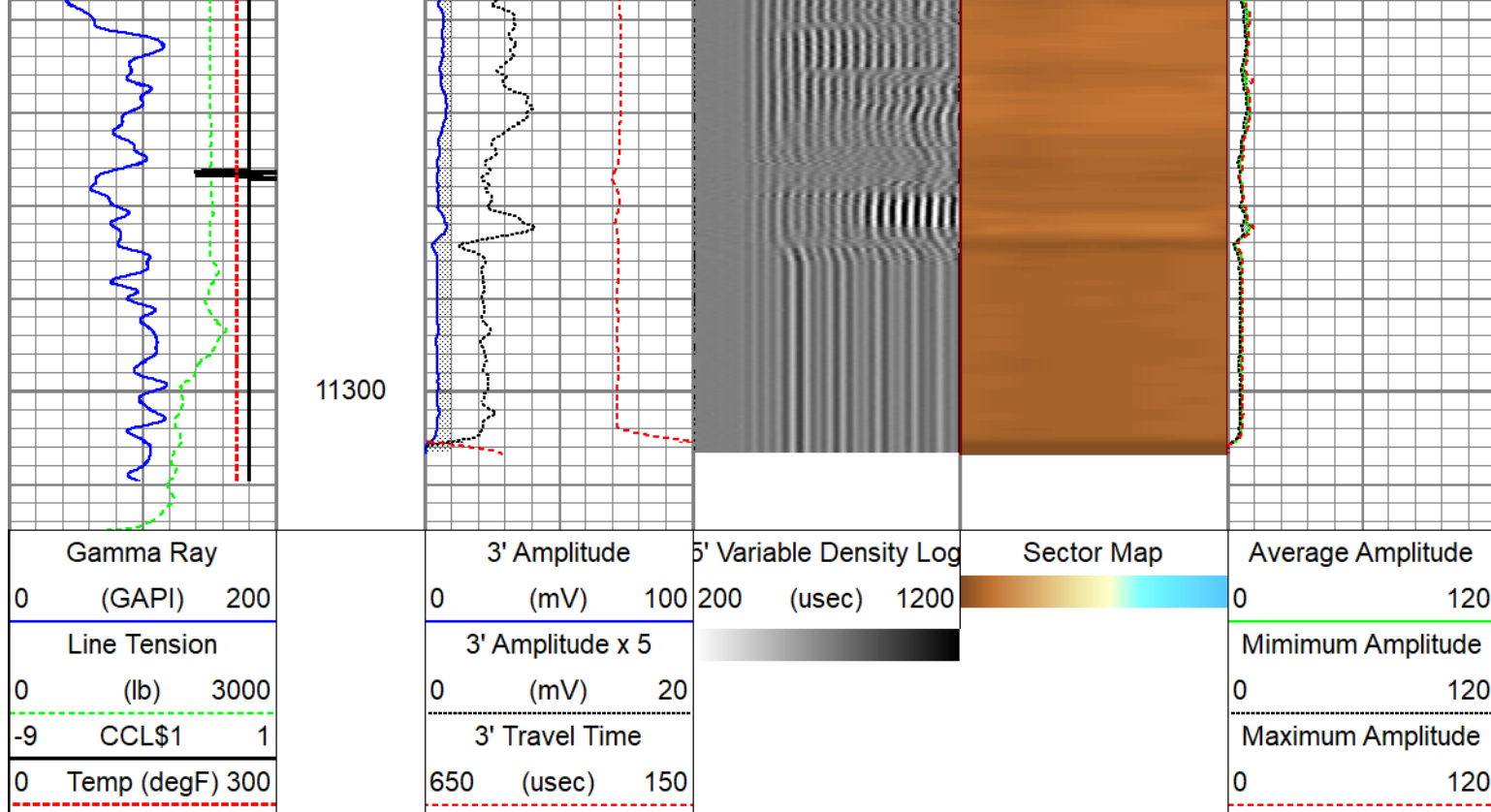




Repeat Pass 5" = 100'

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) 3000		0 (mV) 20			0 120
-9 CCL\$1 1		3' Travel Time			Maximum Amplitude
0 Temp (degF) 300		650 (usec) 150			0 120





Calibration Report					
Database File	tep_fed wmc 512-20_rcbl_12-15-2022.db				
Dataset Pathname	main1				
Dataset Creation	Thu Dec 15 09:42:59 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			
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	
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					

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		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
RBT_ACCZ	5.28					
RBT_ACCY	5.28					
RBT_ACCX	5.28					
WVFSYNC	5.28					
WVFCAL	5.28					
CCL\$2	4.68					
CCL\$1	4.68					
GCT_TEMP	3.79		GCacc-GCTacc_6-Pin-Base (110255) Probe 2.75" Gamma Ray - CCL w/ Temp and 6 Pin Bottom	5.00	2.75	
GR	2.99					
GCT_IntTemp	1.95		Probe ADPT-6P-GO Probe 2-3/4" 6-Pin Top to GO Bottom Adaptor Sub	0.28	2.75	2.00
GCT_ACCZ	0.28					
GCT_ACCY	0.28					
GCT_ACCX	0.28					

Dataset:	tep_red wmc 512-20_rcbl_12-15-2022.db: field/well/run1/merge1
Total length:	14.03 ft
Total weight:	132.00 lb
O.D.:	3.25 in

Company	TEP Rocky Mountain LLC		
Well	Federal WMC 512-20		
Field	Rulison		
County	Garfield	State	Colorado



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