



Radial Cement Bond
Gamma CCL
Log

Company		Terra Energy Partners, LLC		Country USA	
Well		Federal NR 43-4		Country USA	
Field		Rulison		Country USA	
County		Garfield		Country USA	
State		Colorado		Country USA	
Date		06-JUN-2022		Country USA	
Run Number		One		Country USA	
Depth Driller		10850 FT		Country USA	
Depth Logger		10804 FT		Country USA	
Bottom Logged Interval		10798 FT		Country USA	
Top Log Interval		Surface		Country USA	
Open Hole Size		8.75"		Country USA	
Type Fluid		Water		Country USA	
Density / Viscosity		8.34 lb/gal		Country USA	
Max. Recorded Temp.		---		Country USA	
Estimated Cement Top		See Log		Country USA	
Time Well Ready		ROA		Country USA	
Time Logger on Bottom		9.25		Country USA	
Equipment Number		8047		Country USA	
Location		Grand Junction, Co.		Country USA	
Recorded By		P. Edwards		Country USA	
Witnessed By		G. Wade		Country USA	
Run Number		Borehole Record		Tubing Record	
Bit		From		To	
Casing Record		Size		Mgd/Ft	
Surface String		9.625"		38 lb	
Prot. String					
Production String		4.5"		11.6 lb	
Liner					

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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 @ 6136 FT - 6146 FT
Log ran with 0 PSI at surface

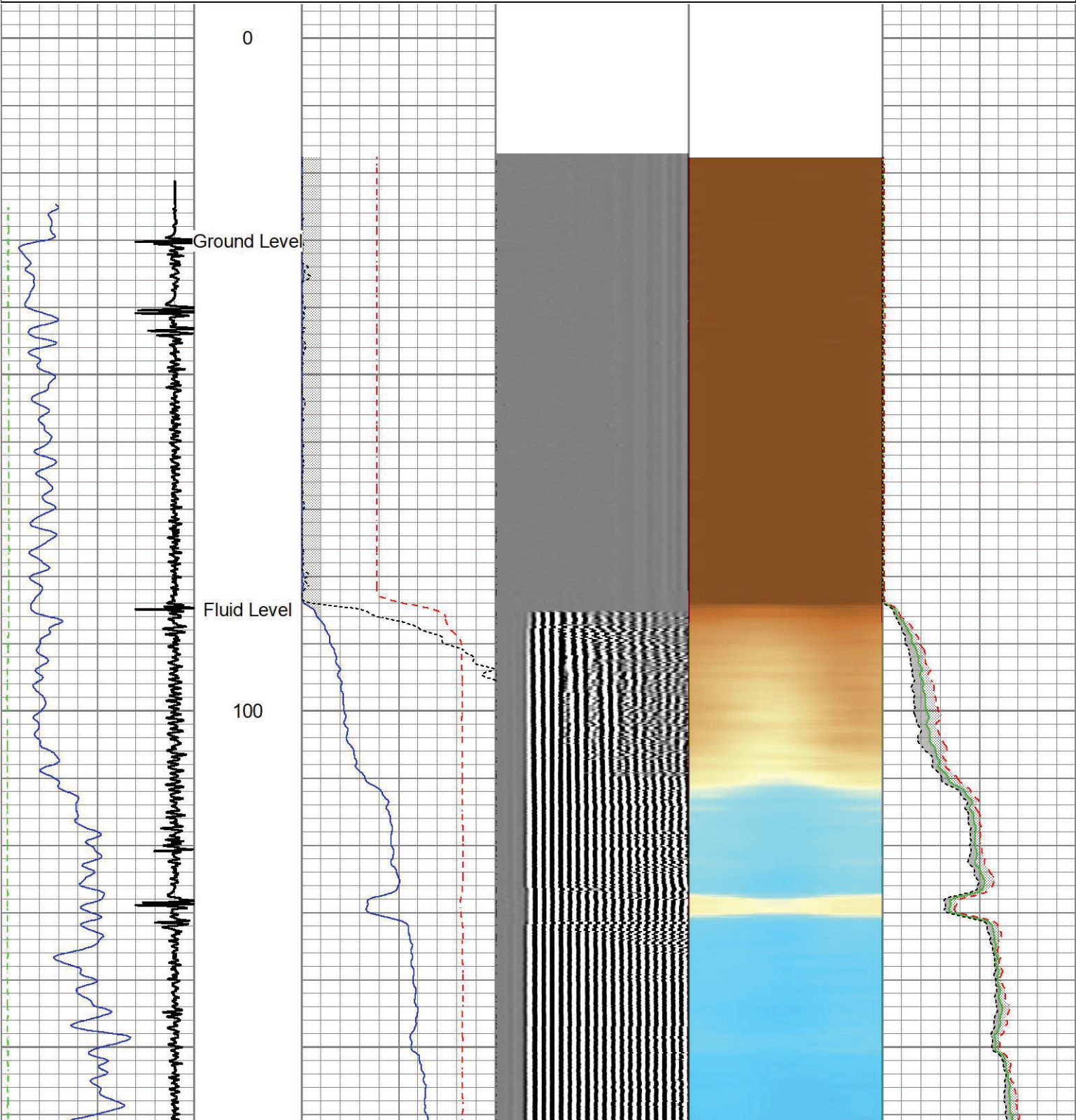
Thank you for choosing The Wireline Group.

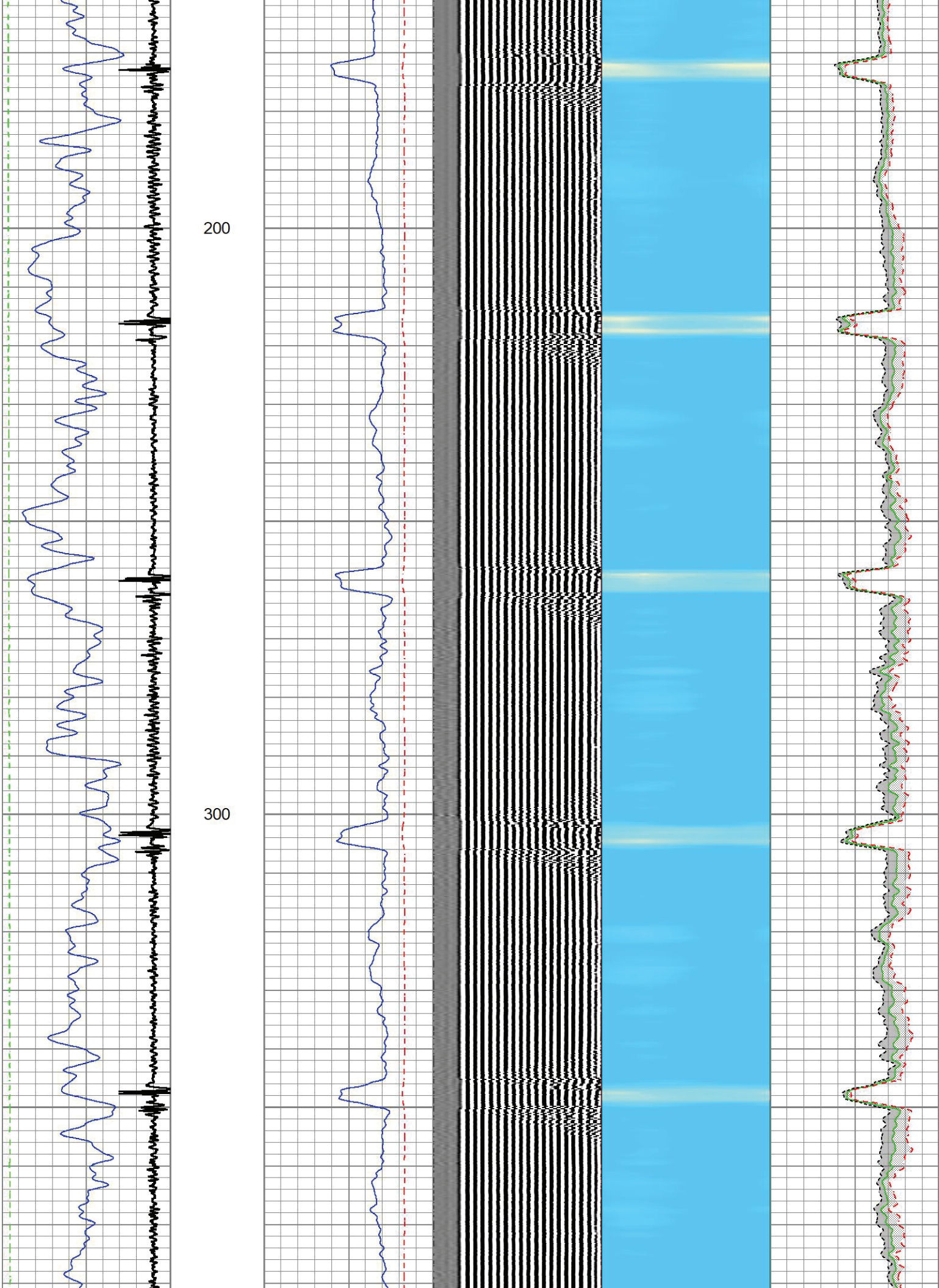


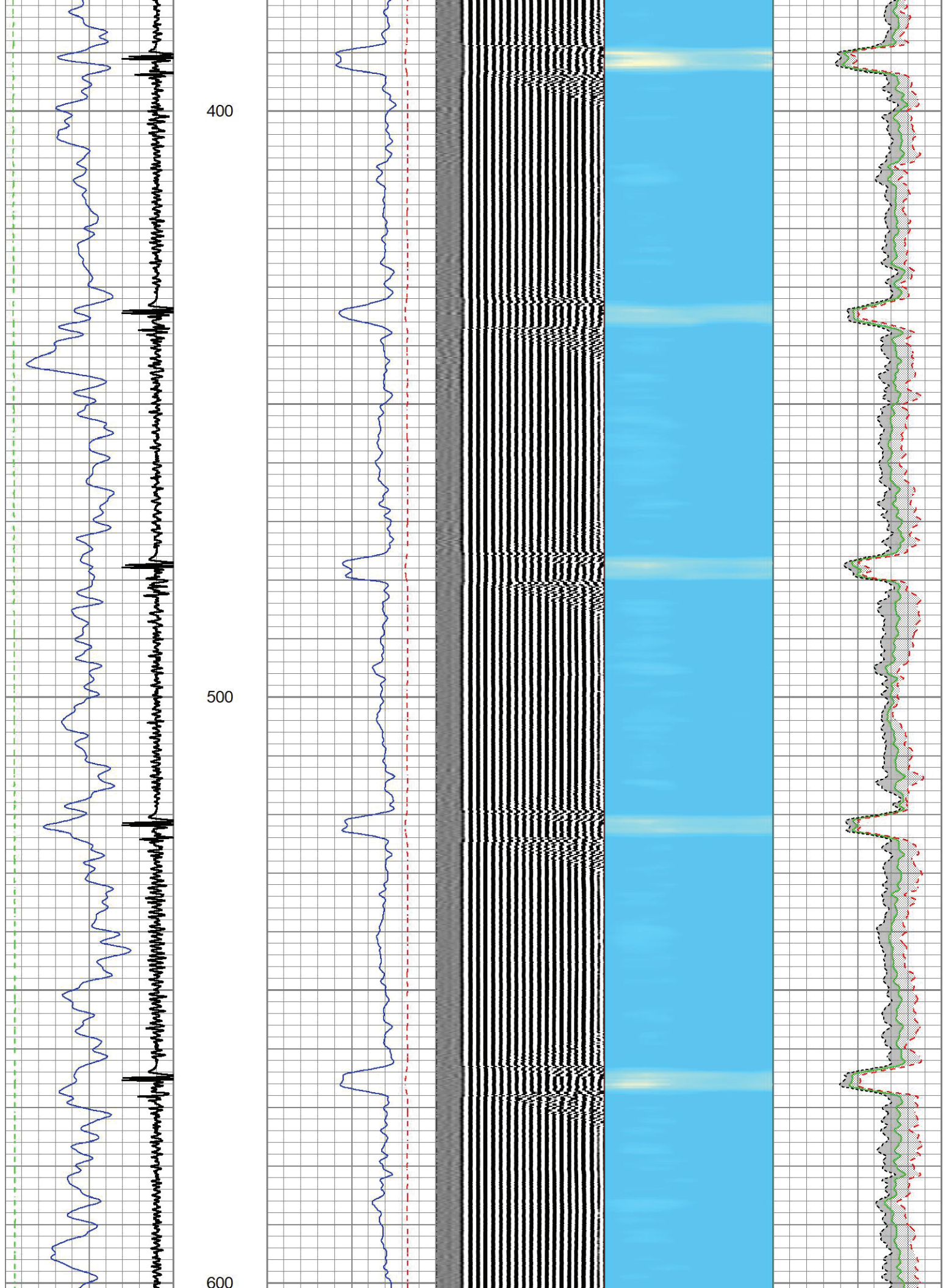
Main Pass 5" = 100'

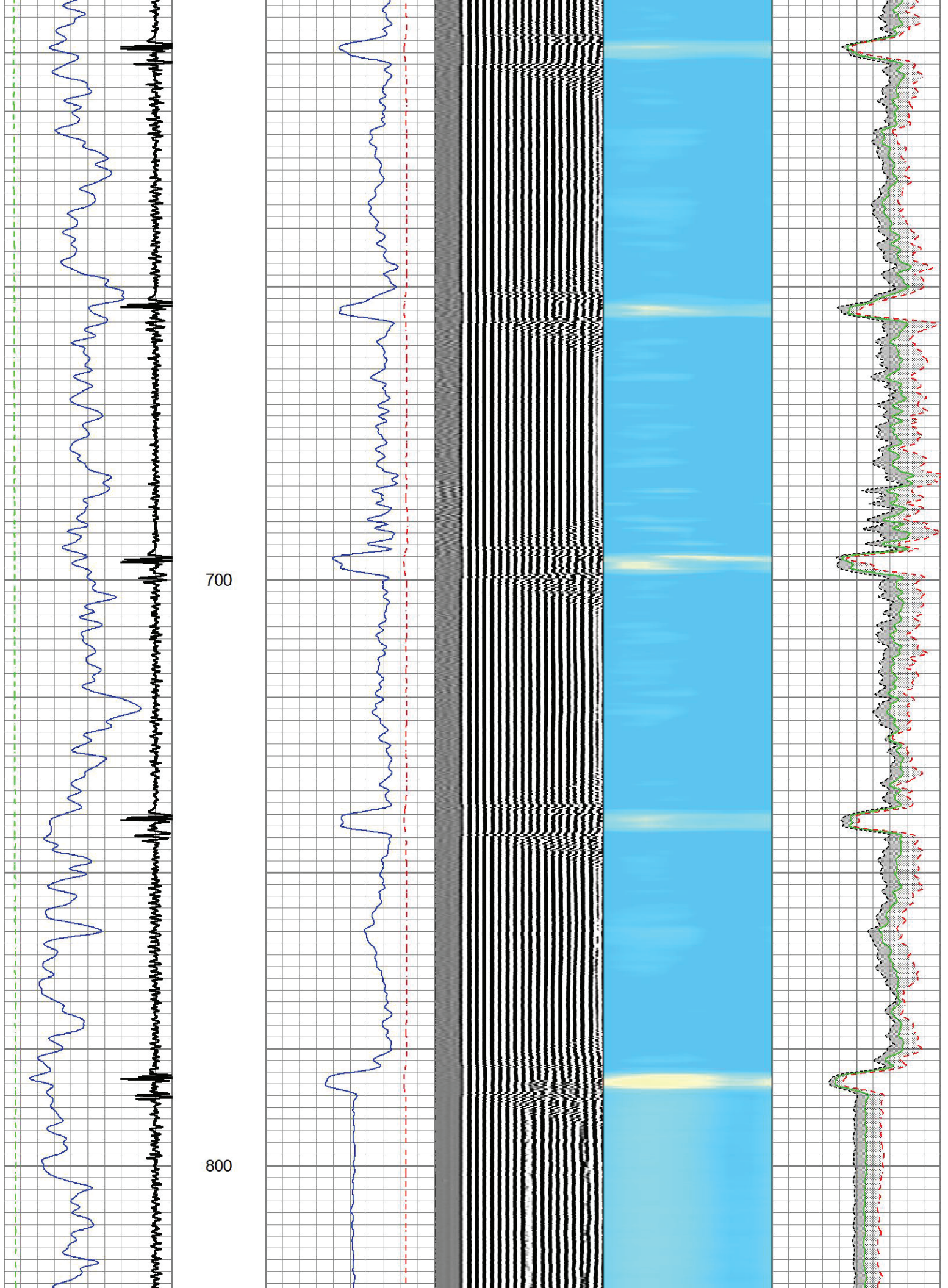
Database File tep_nr 43-4_rcbl_6-10-22.db
Dataset Pathname main
Presentation Format twgrcbl
Dataset Creation Fri Jun 10 09:25:38 2022
Charted by Depth in Feet scaled 1:240

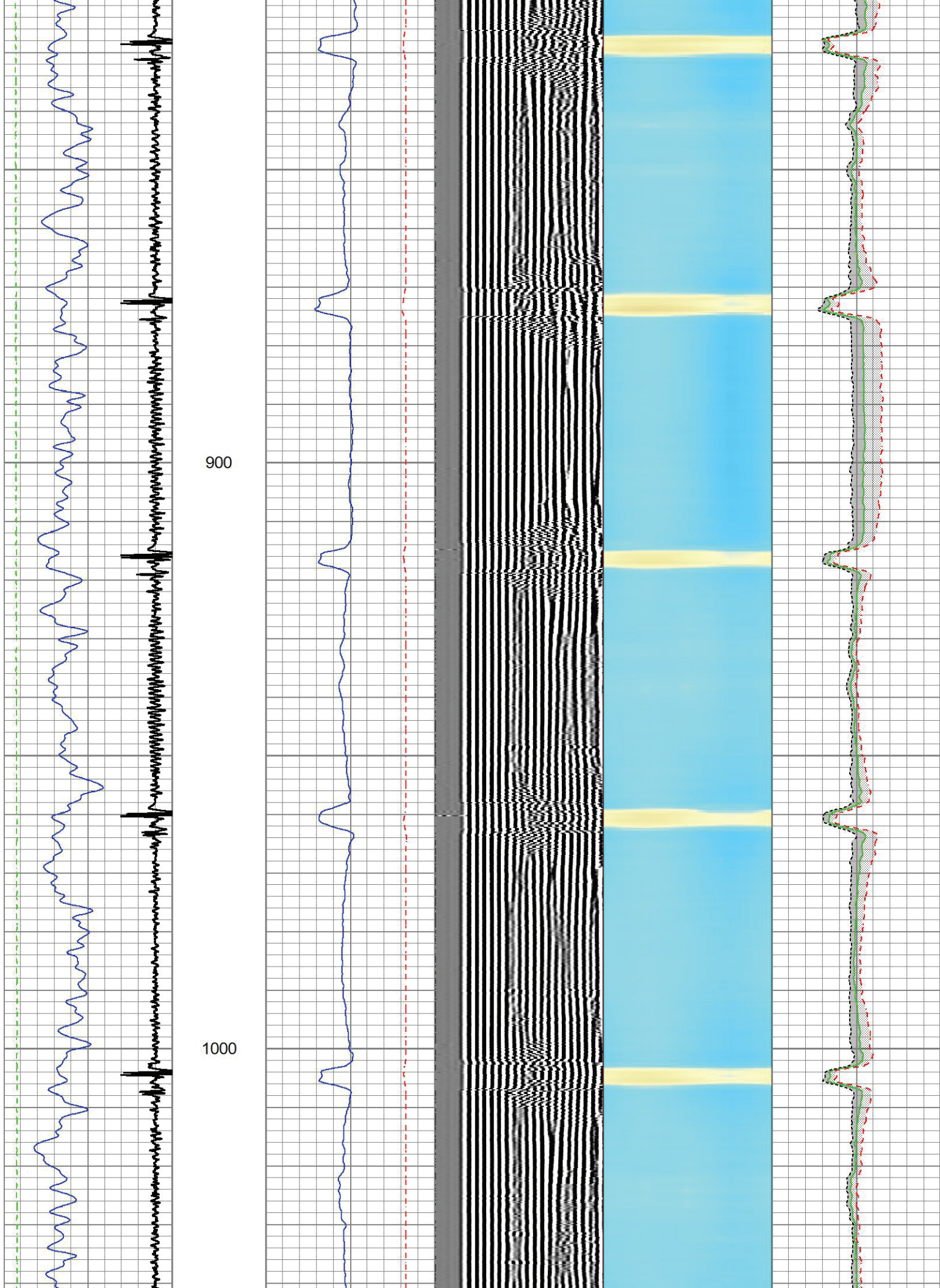
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
CCL\$1	3' Amplitude x 5			Minimum Amplitude
Line Tension	0 (mV) 20			0 120
0 (lb) 4000	3' Travel Time			Maximum Amplitude
	650 (usec) 150			0 120

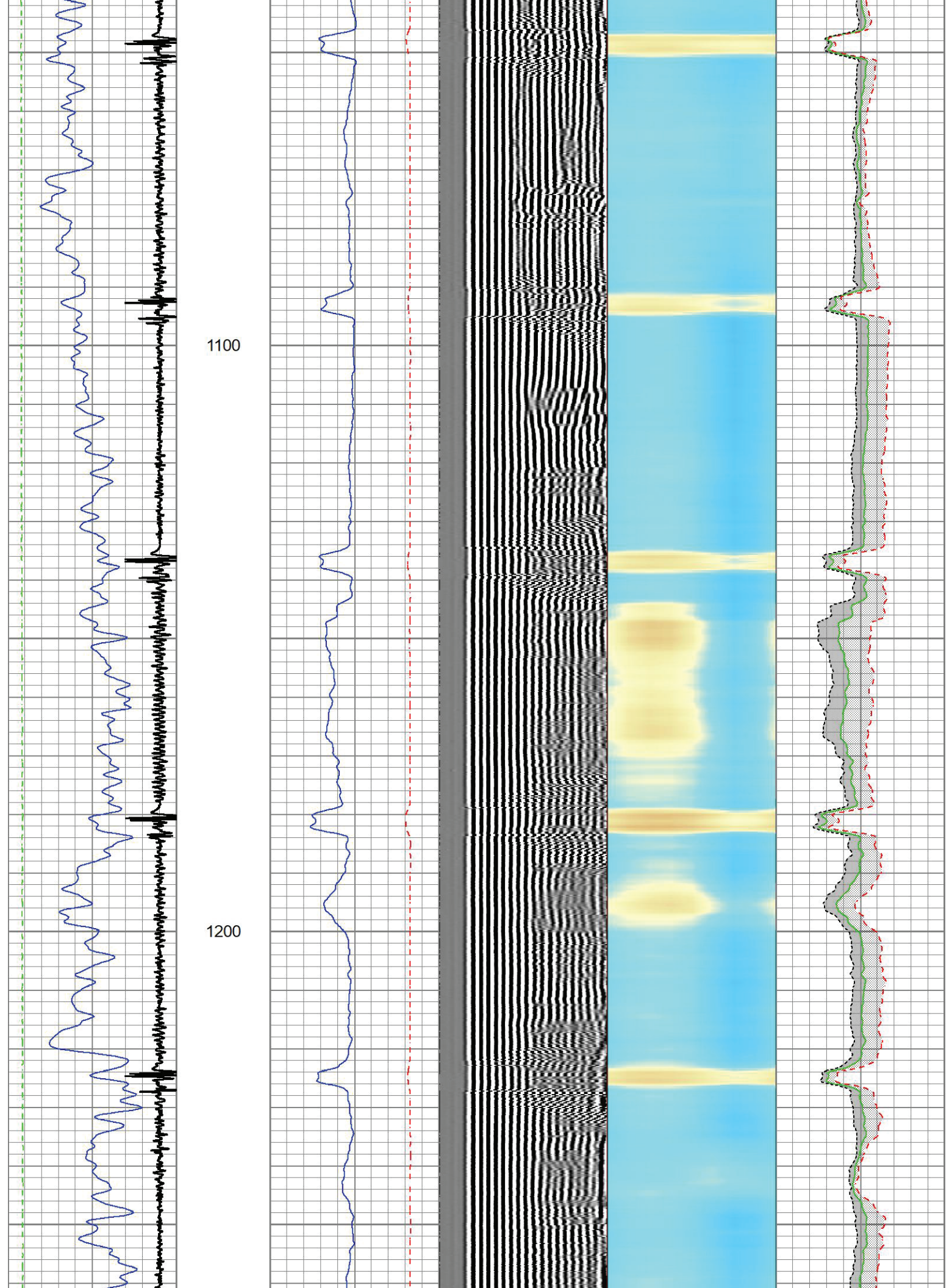


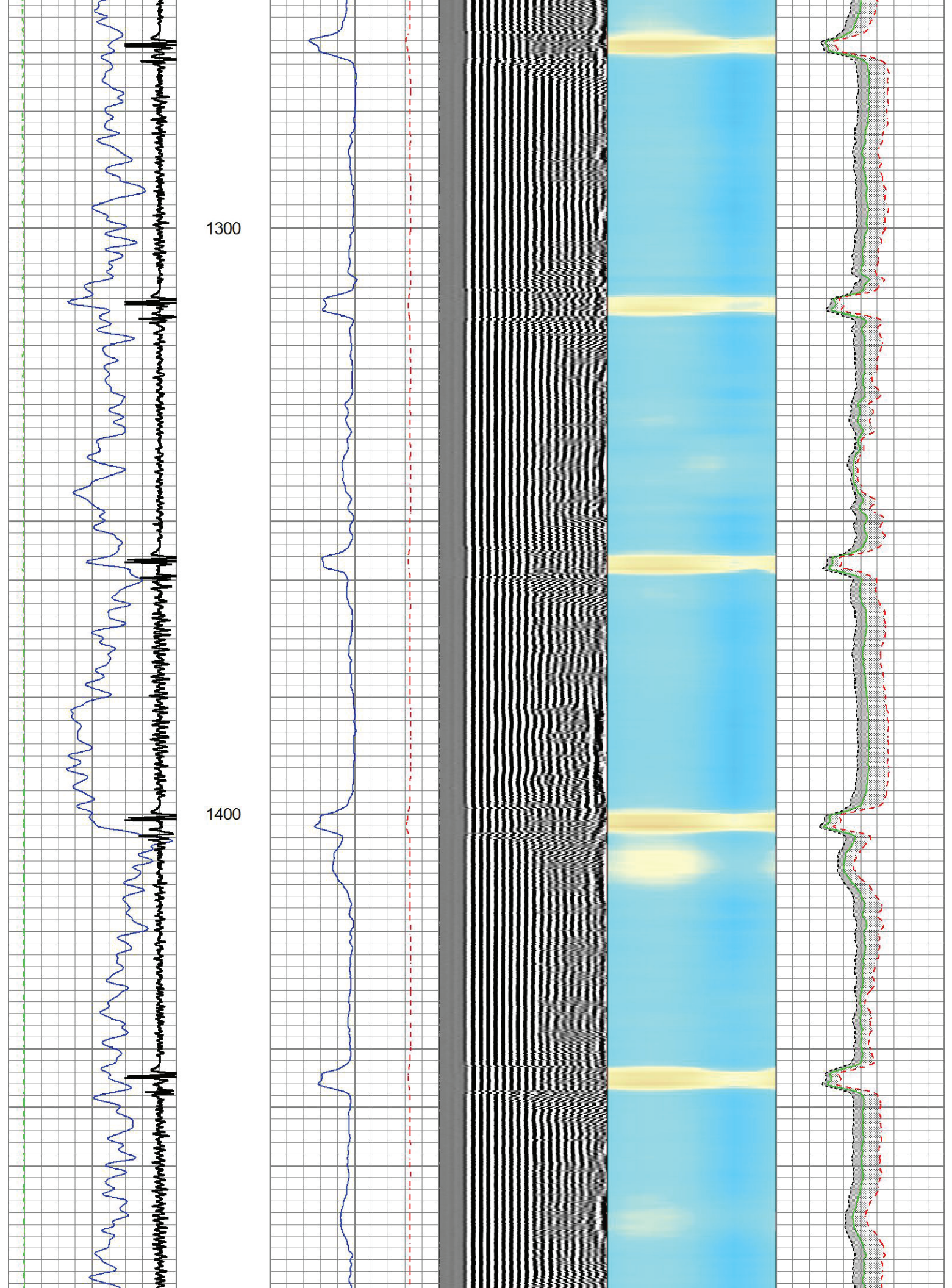


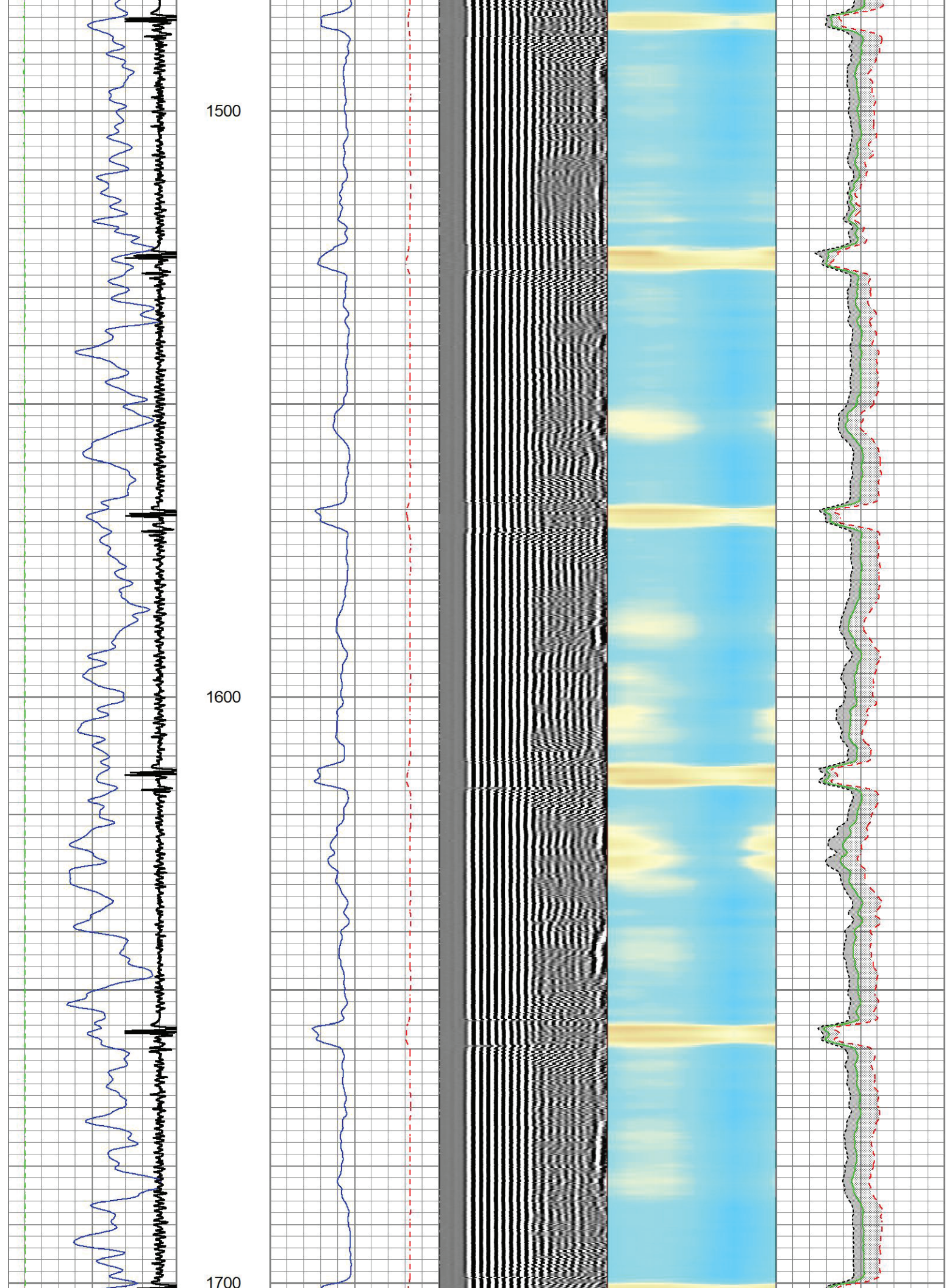


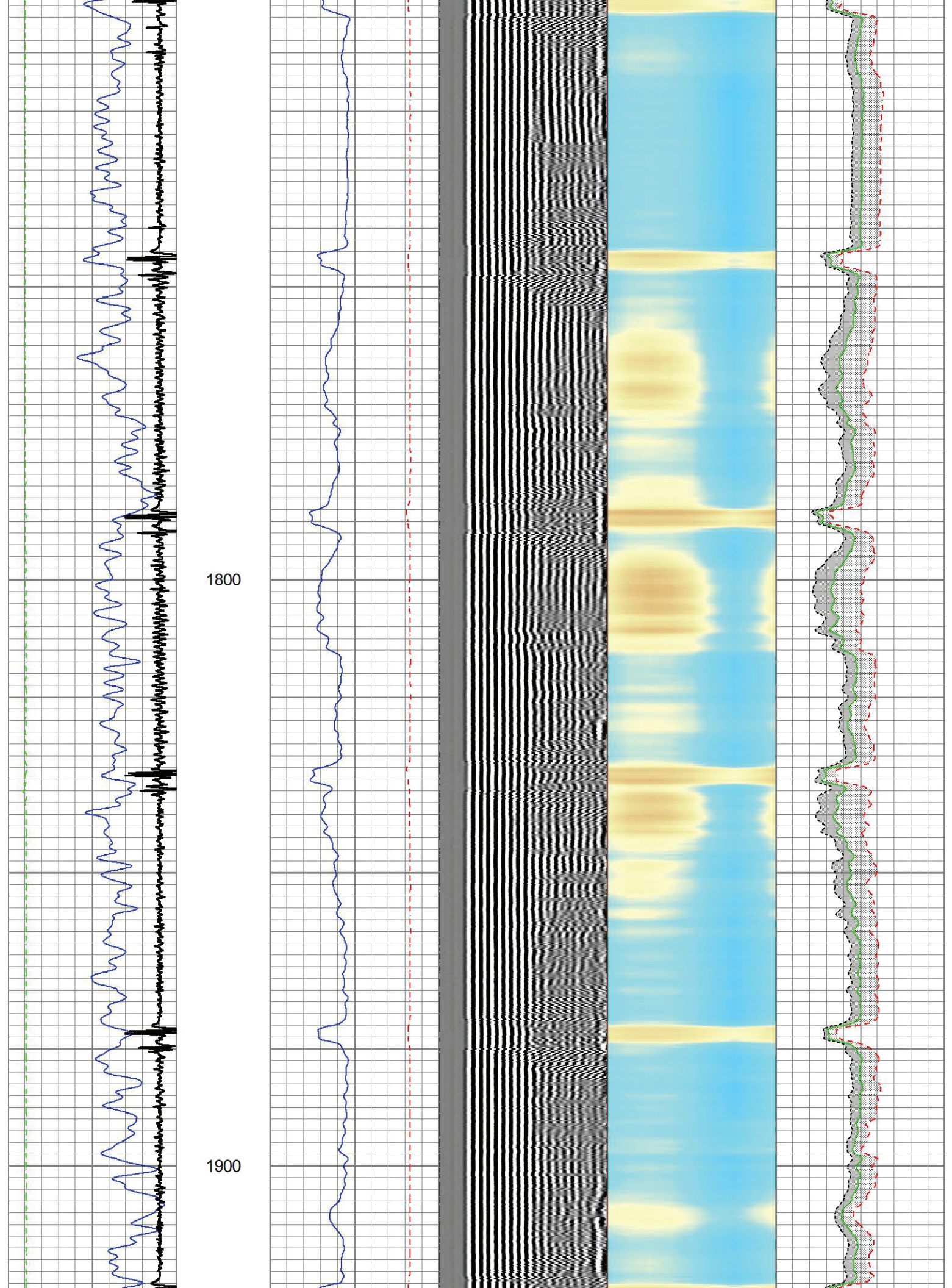


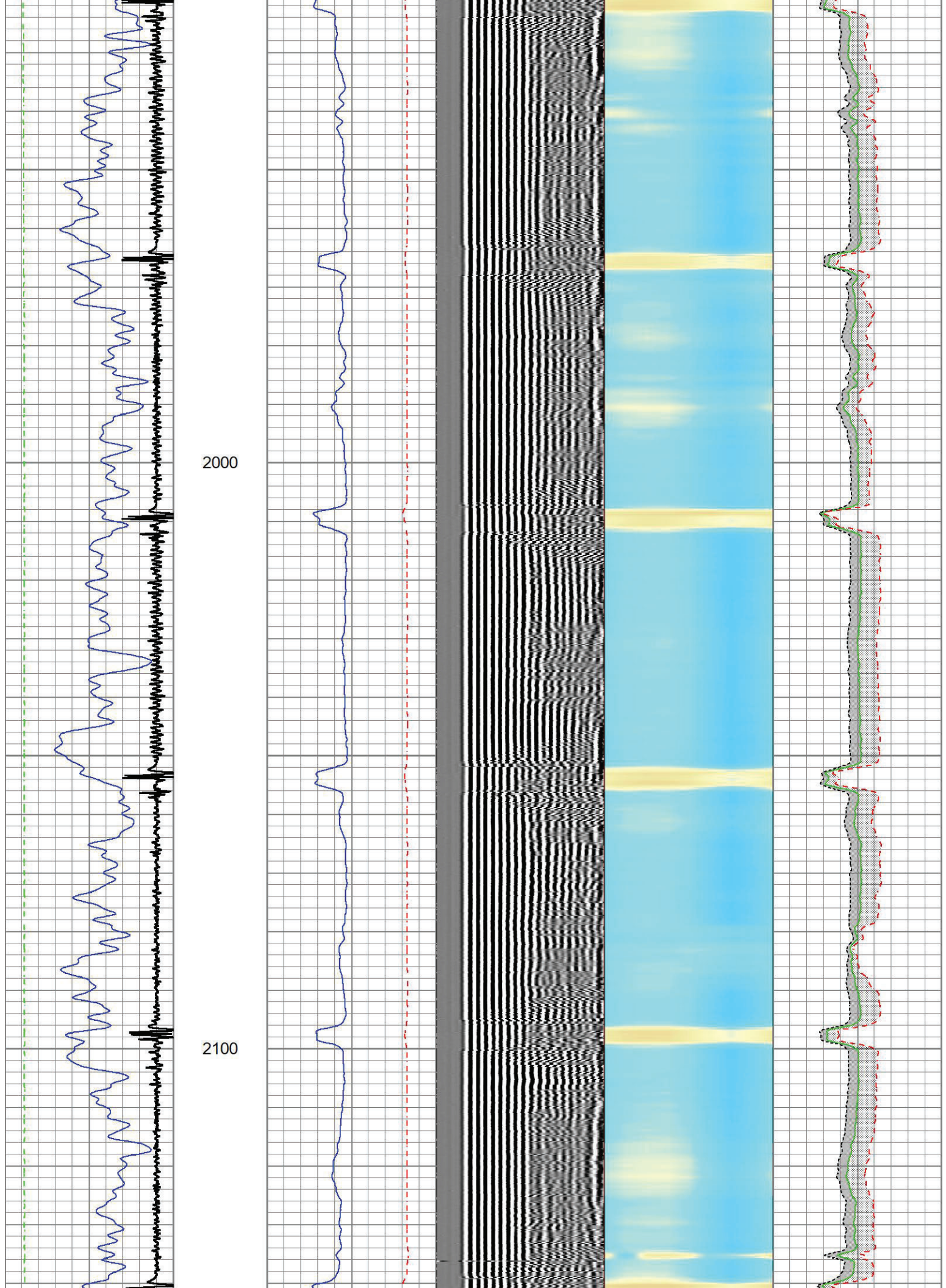


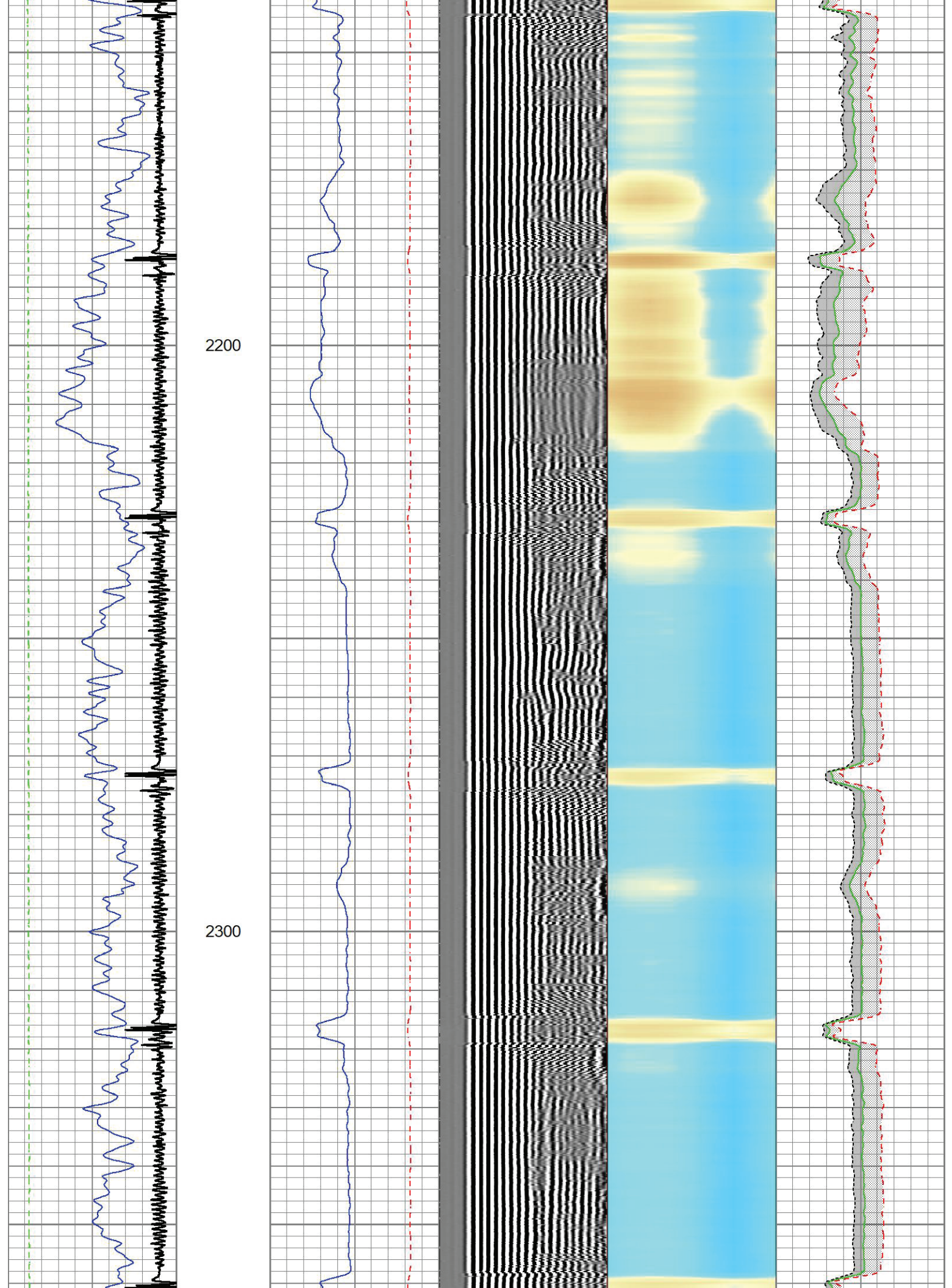


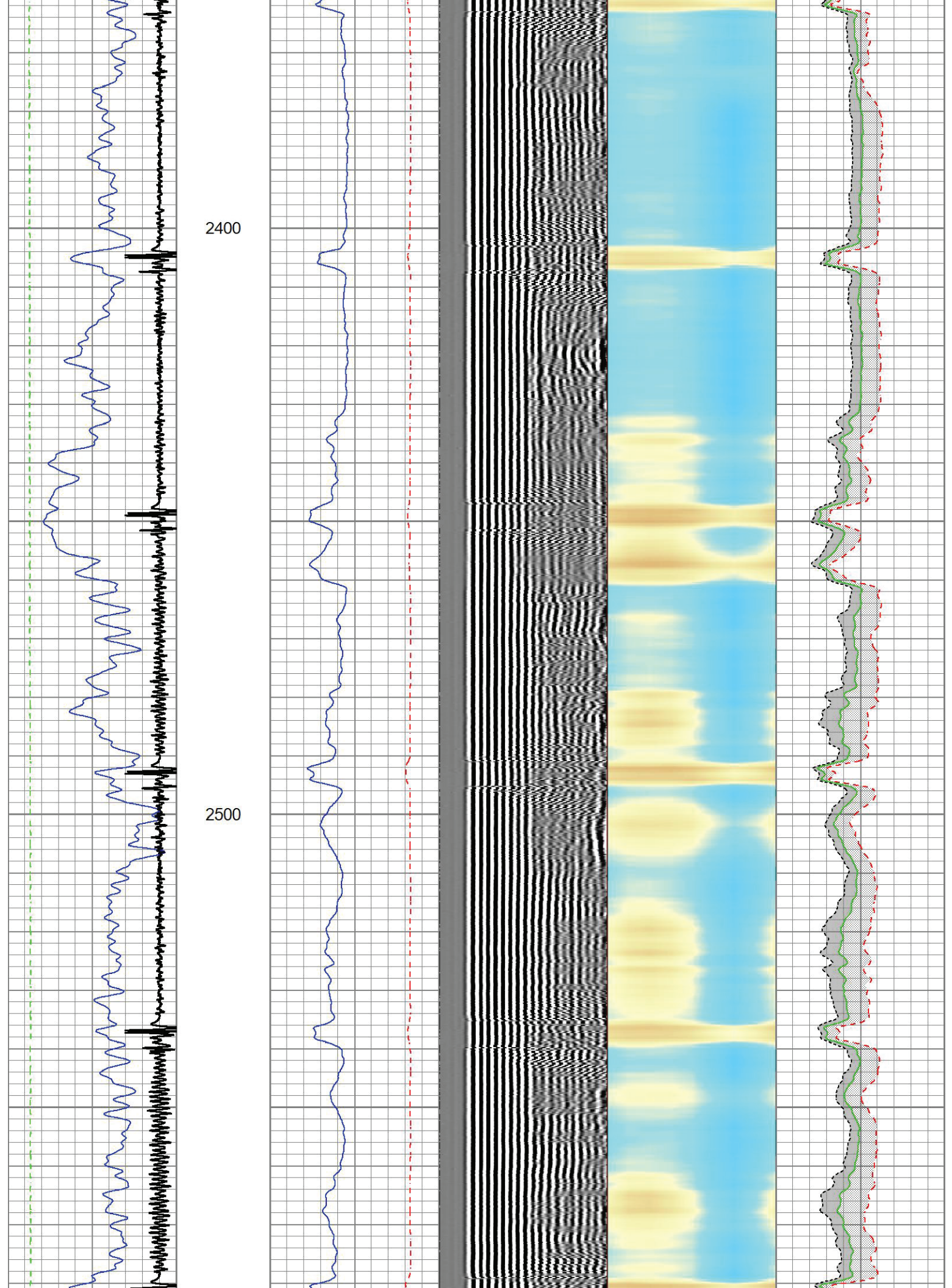


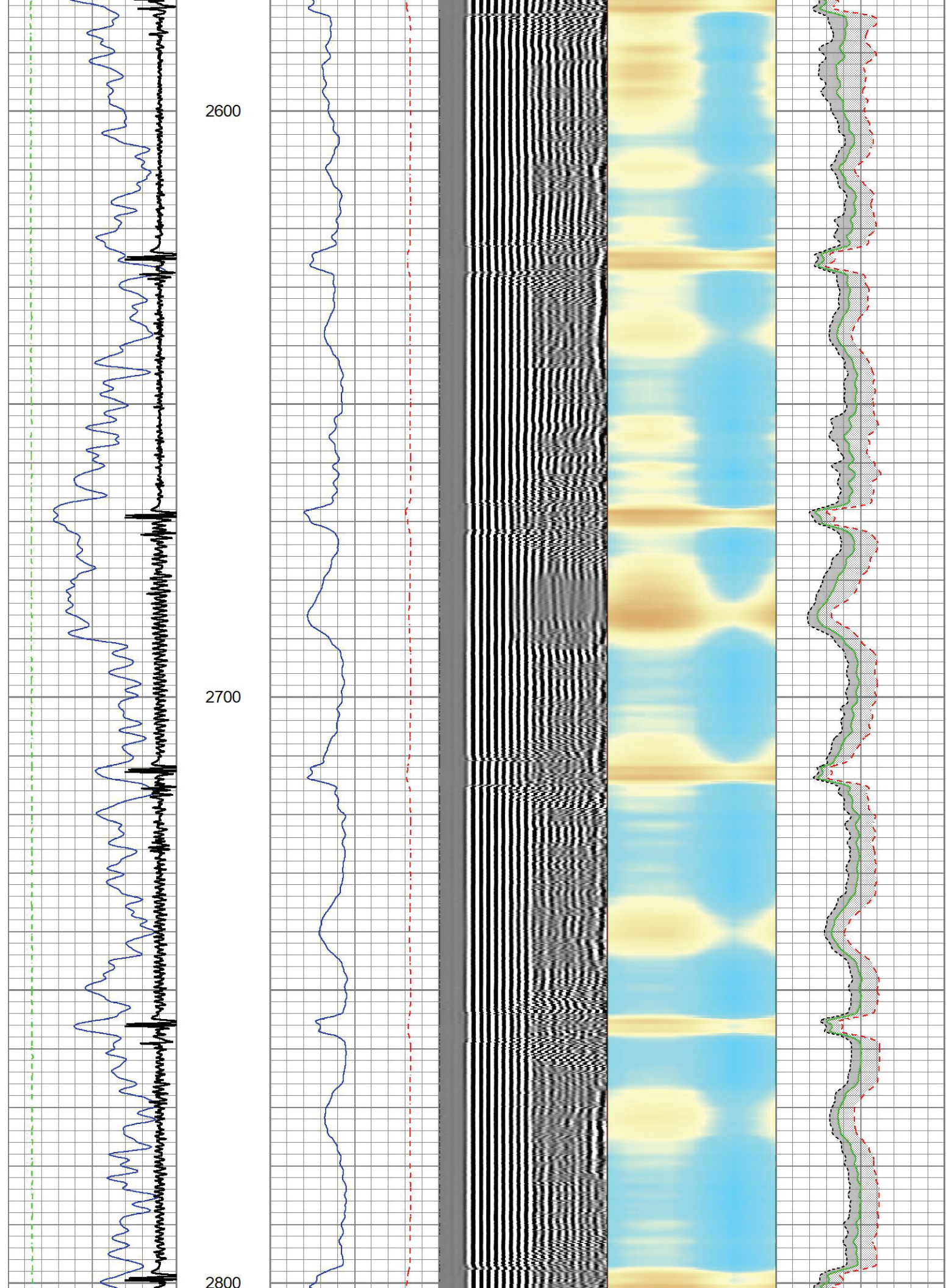


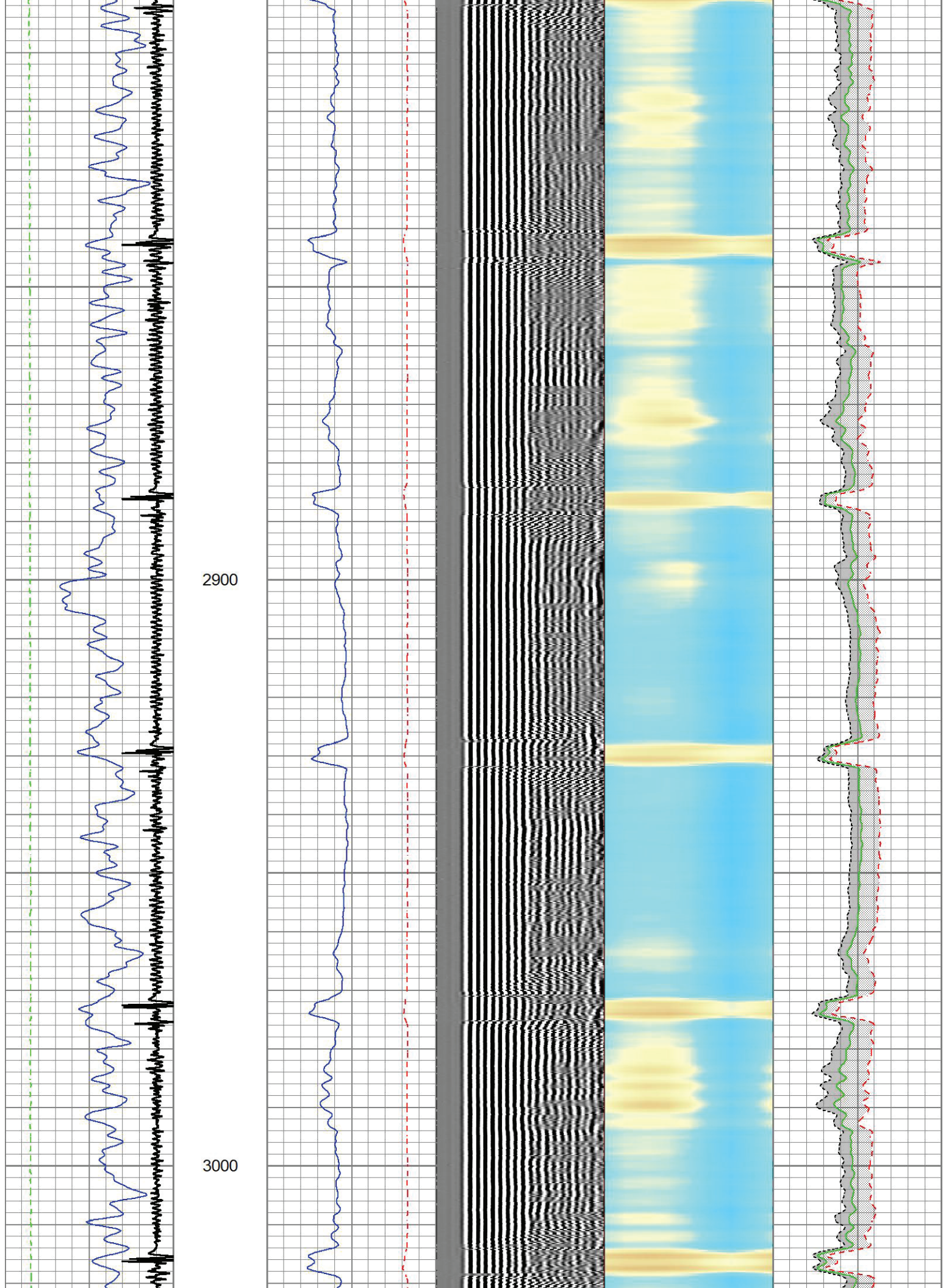


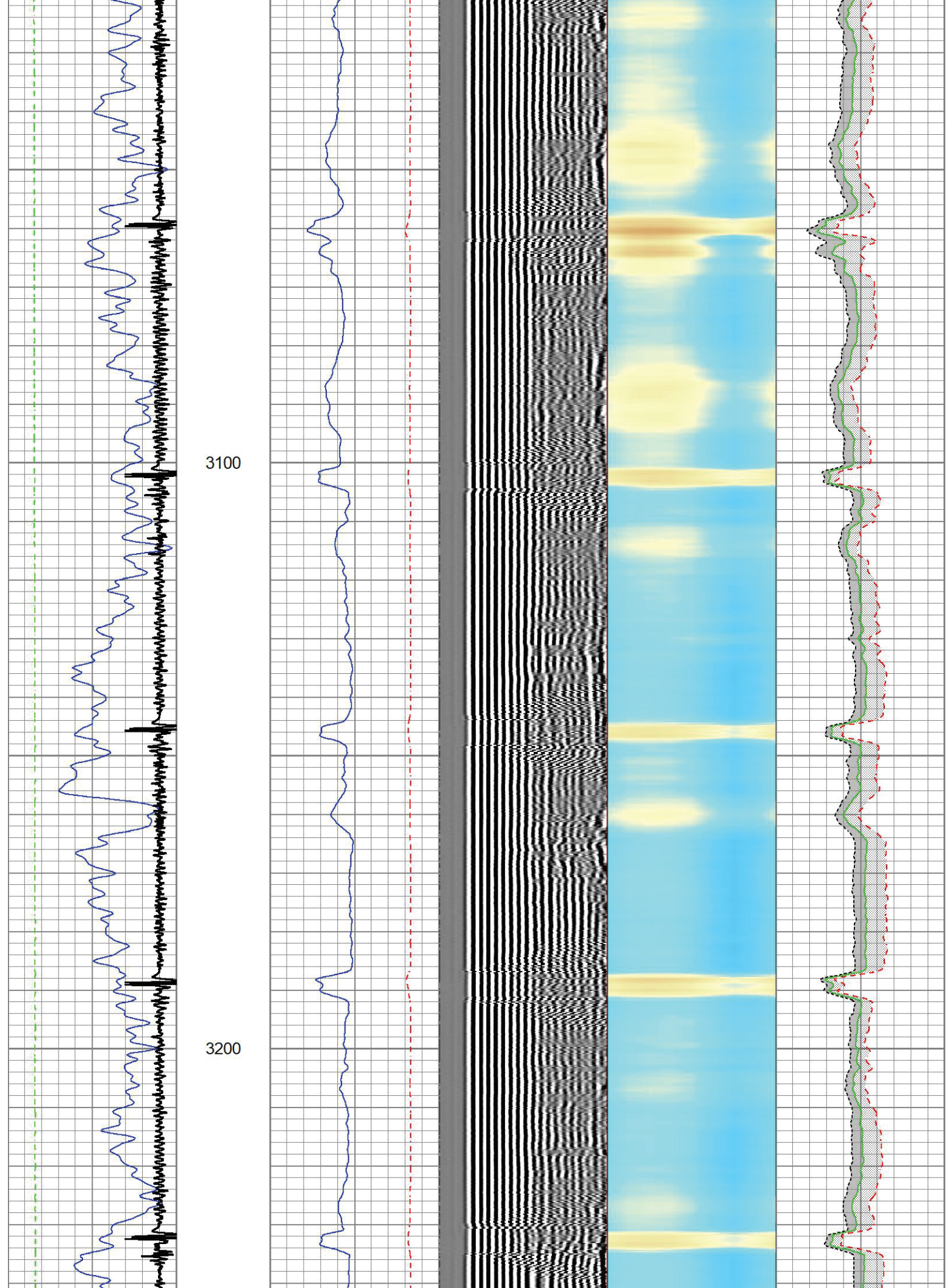


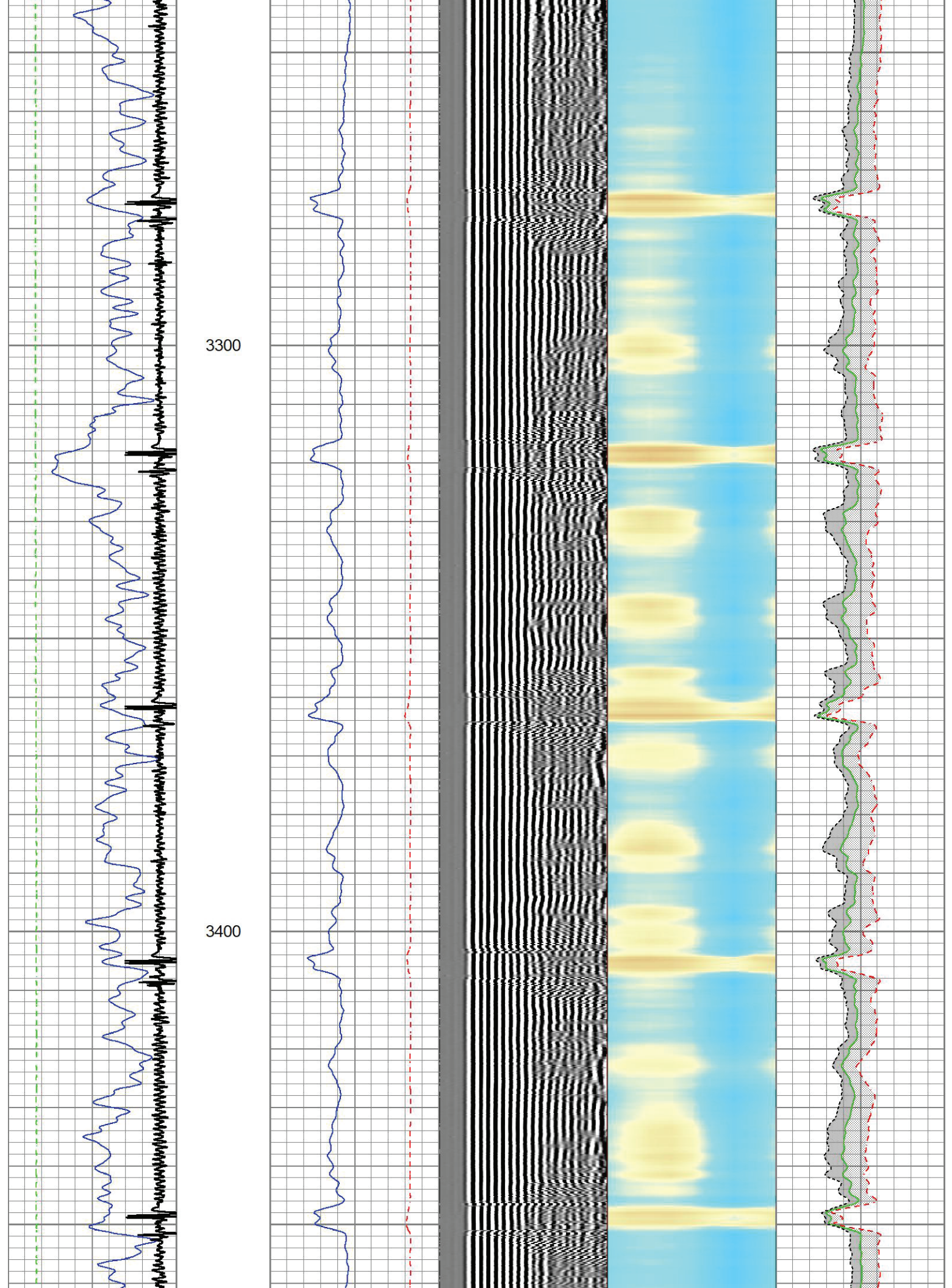


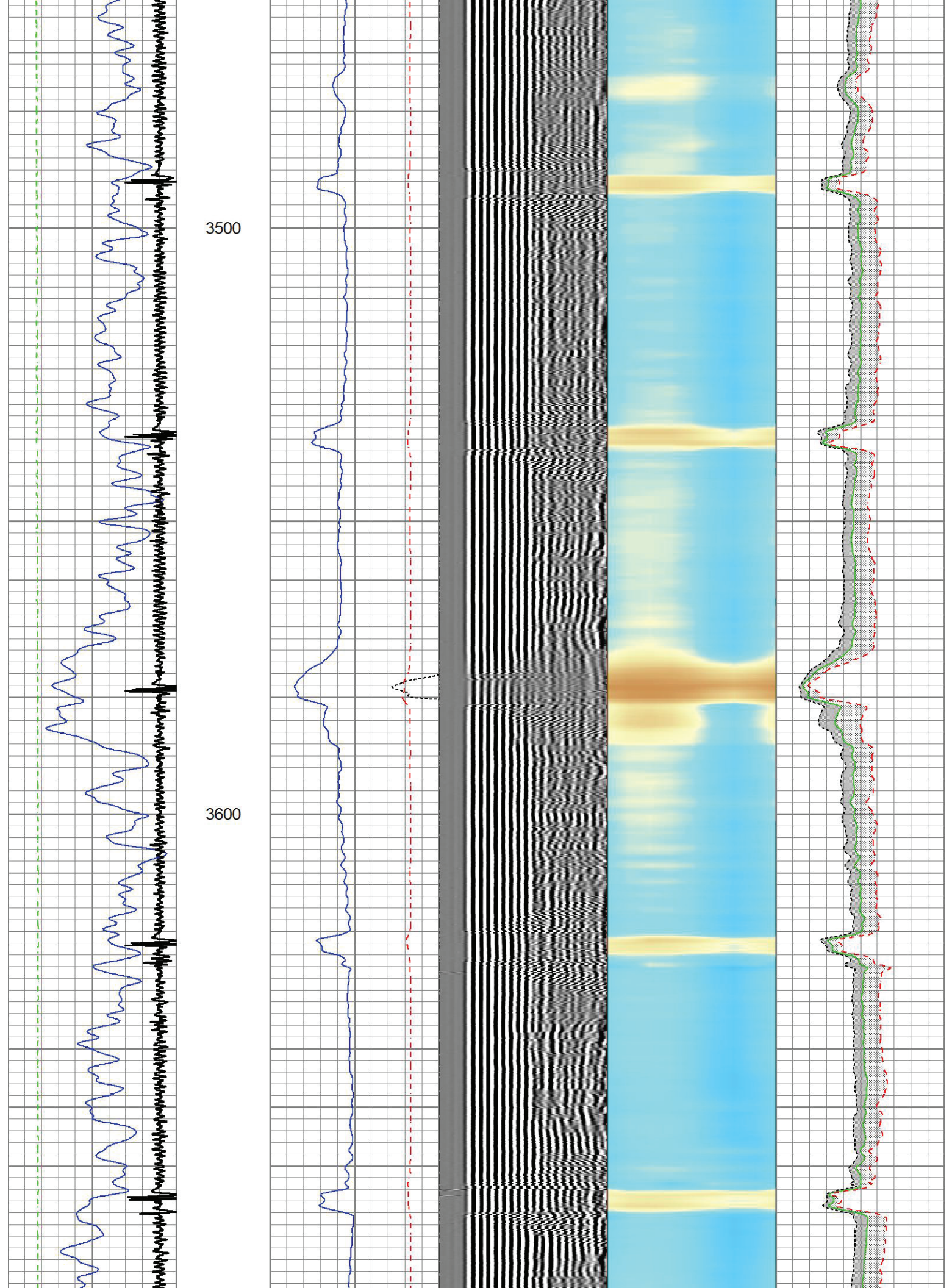


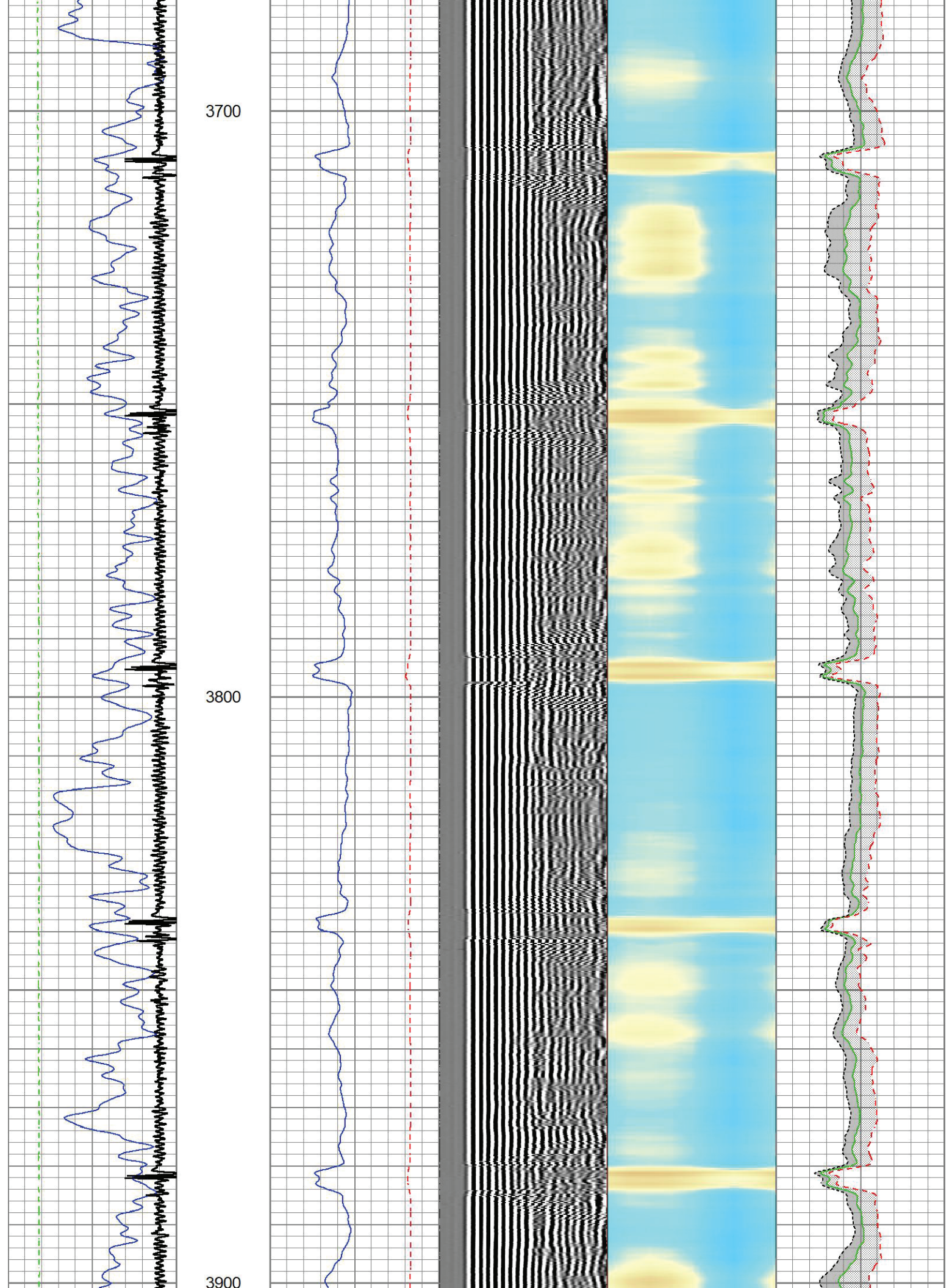


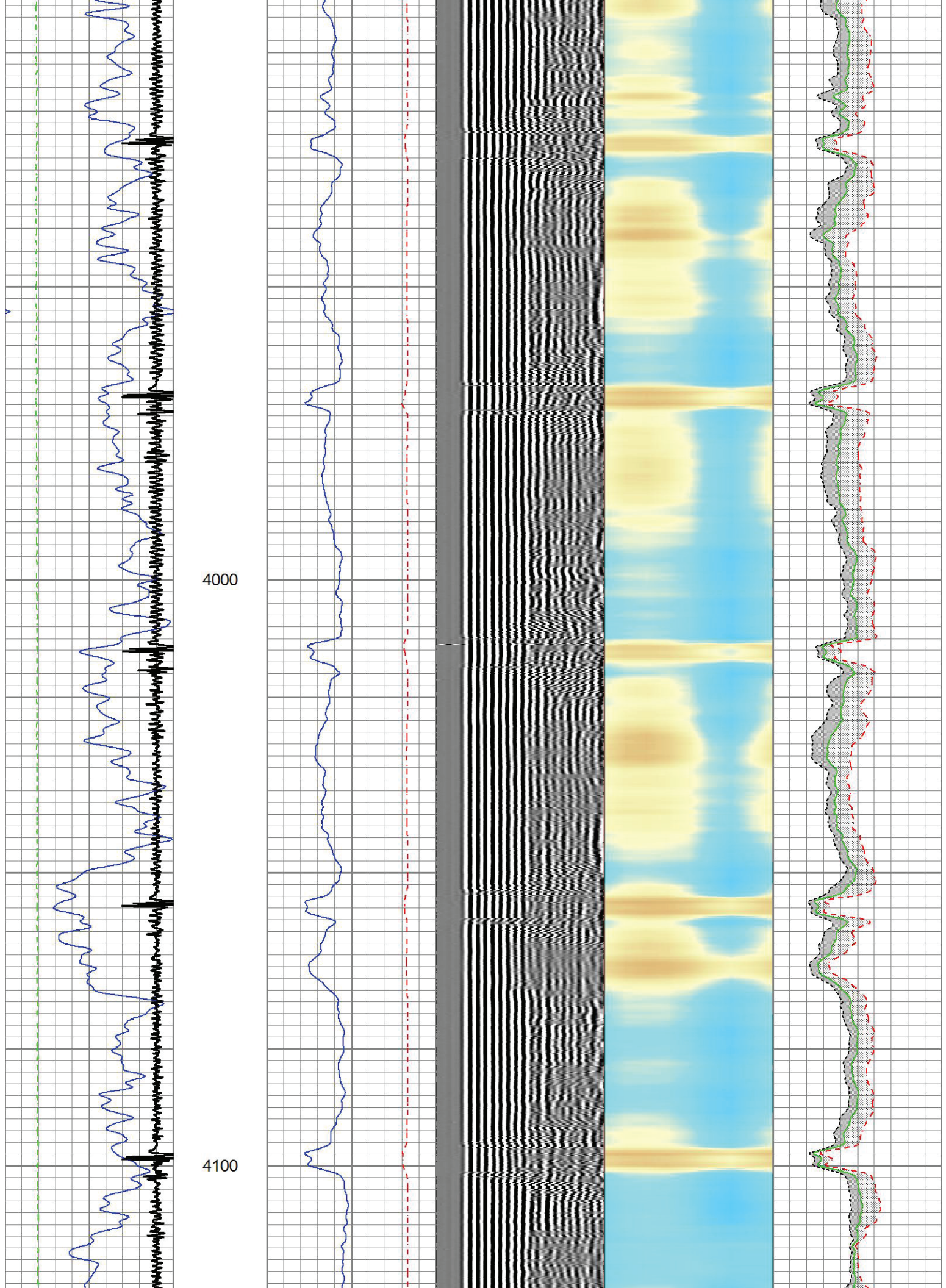


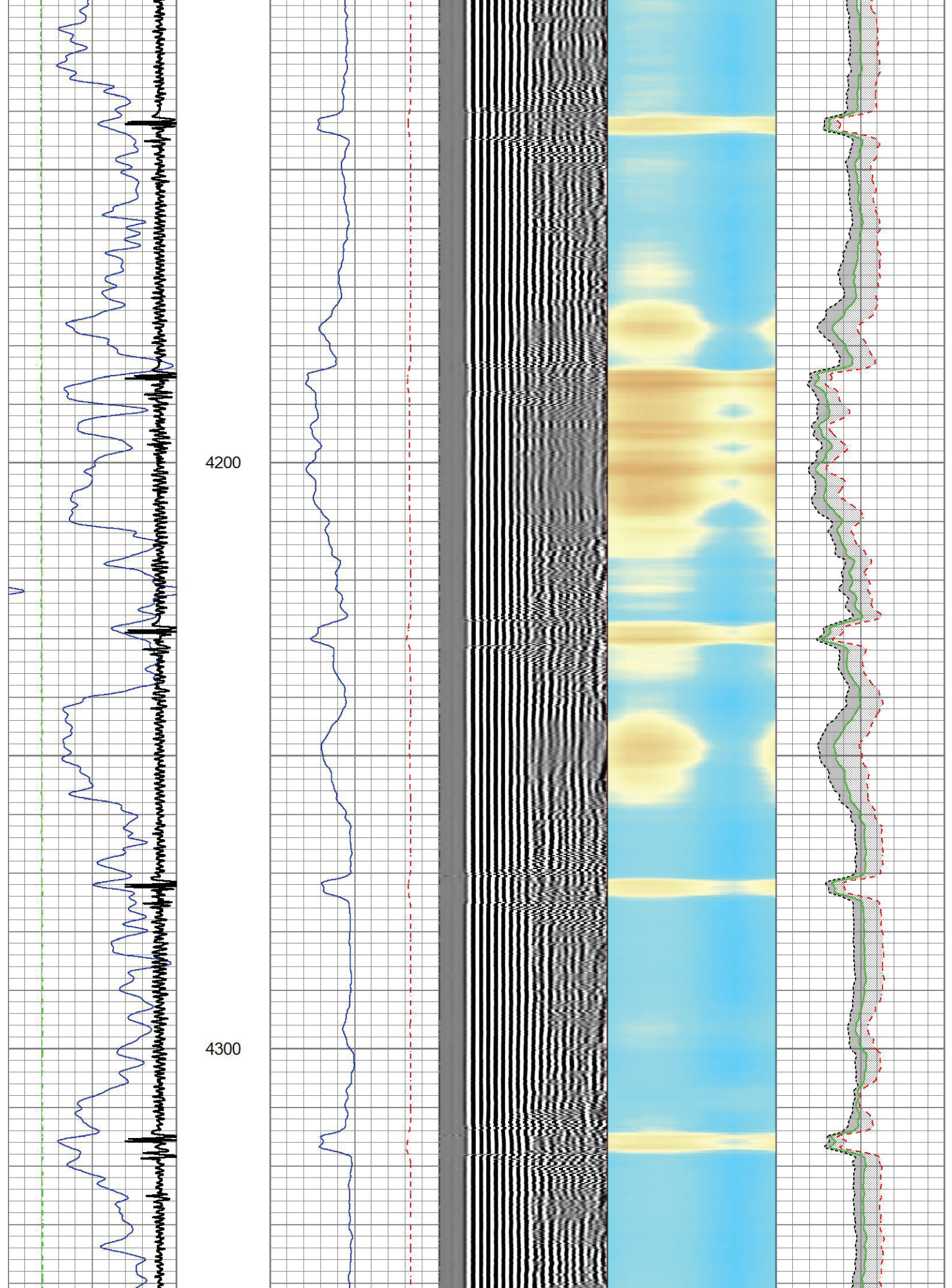


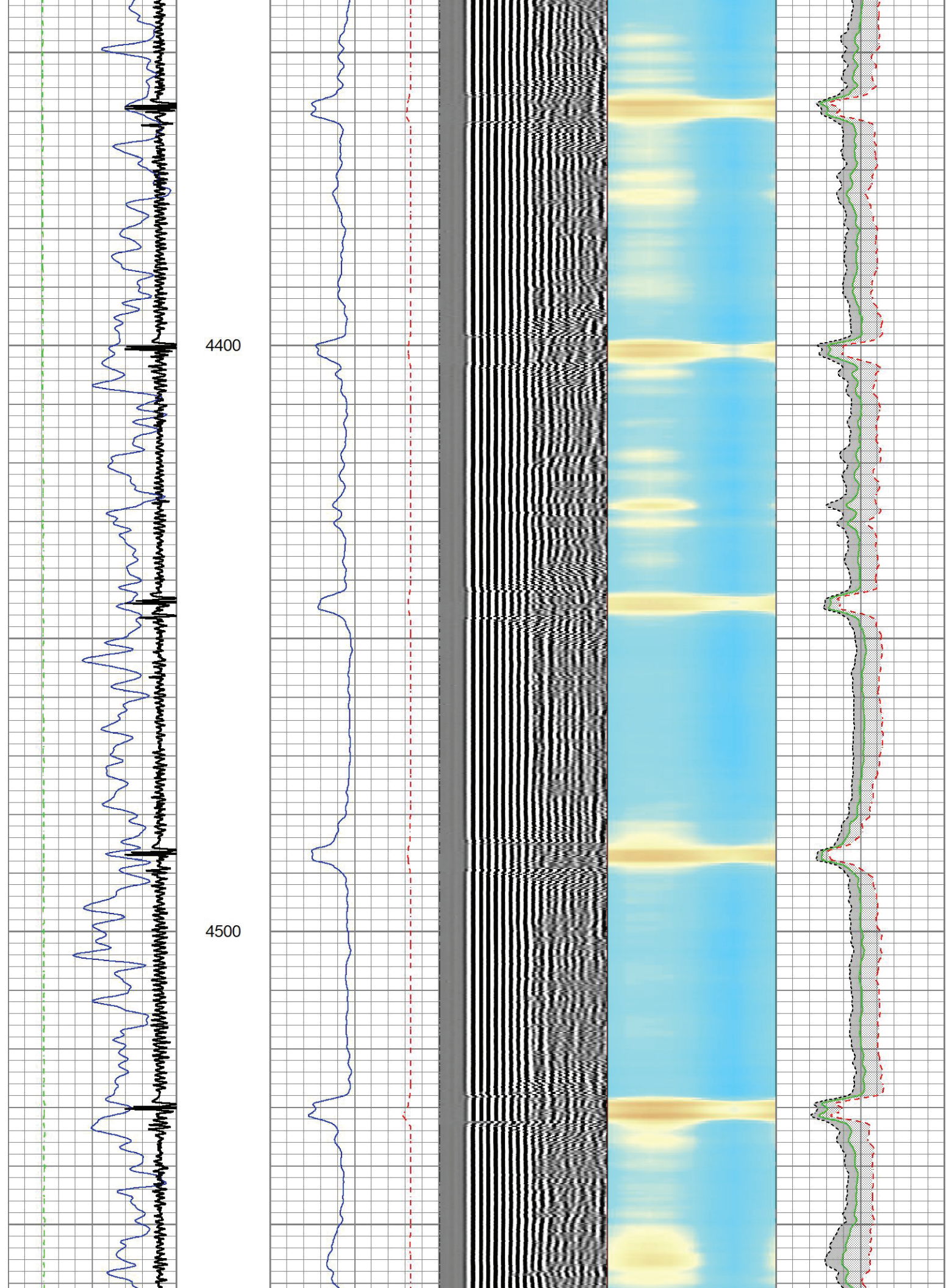


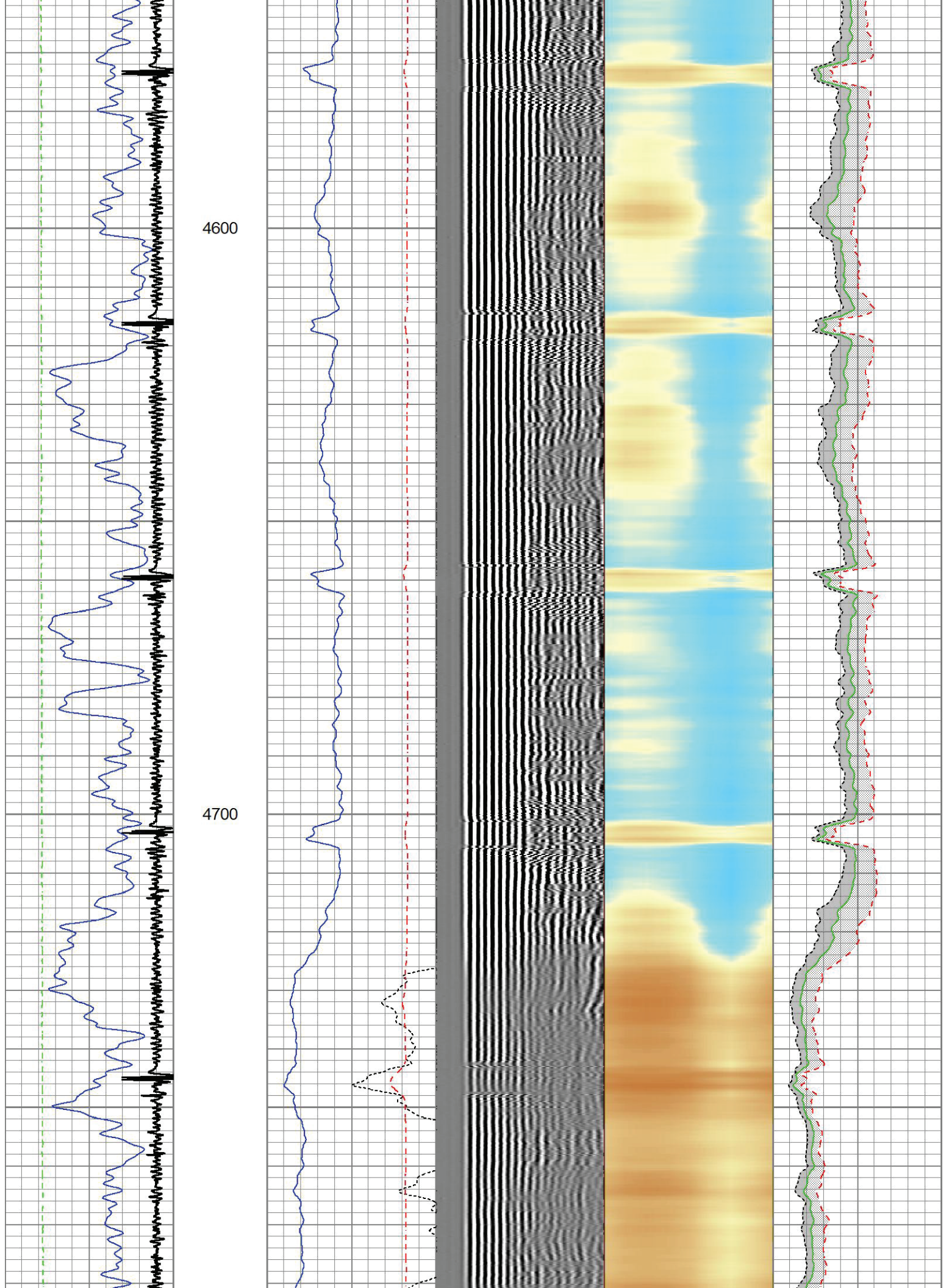


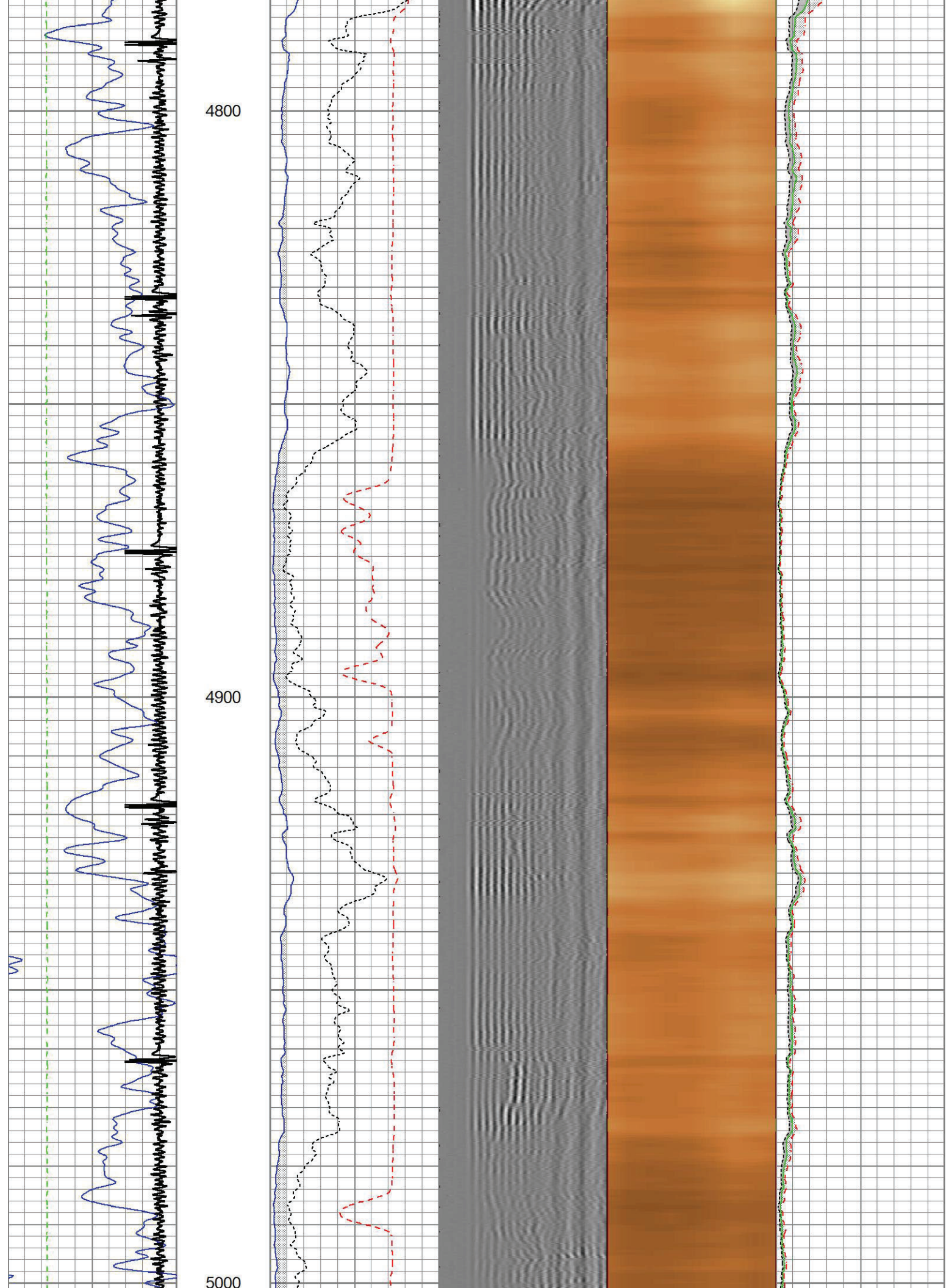


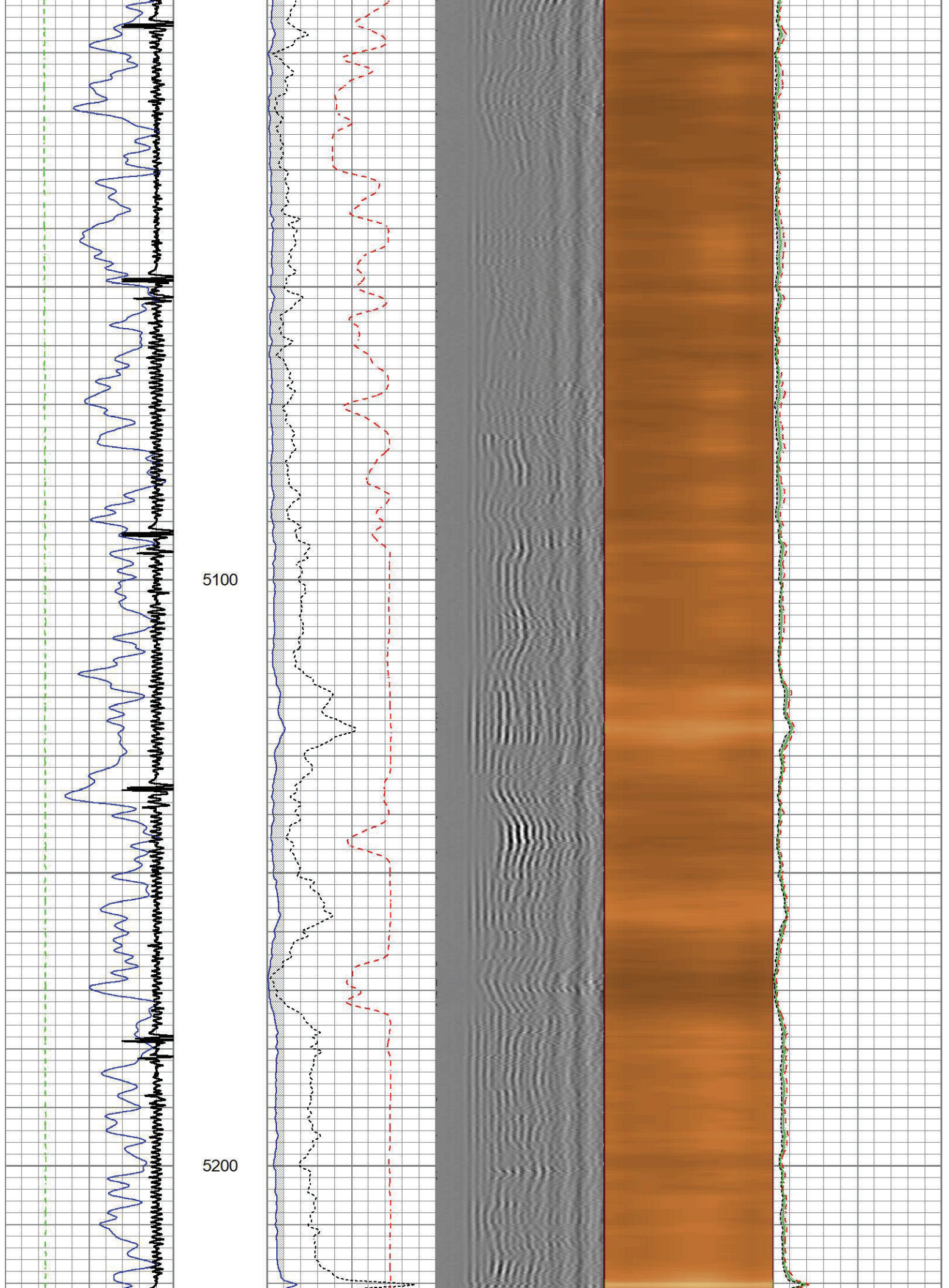


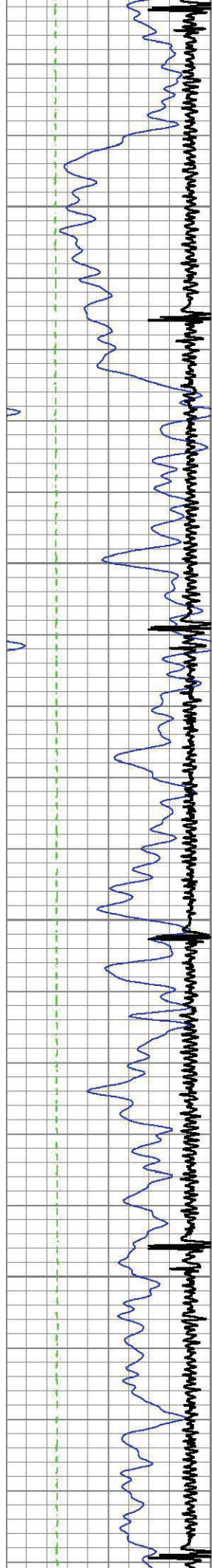






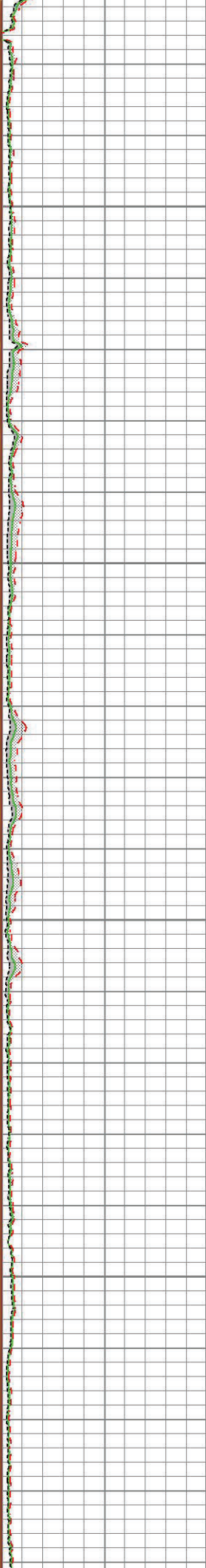
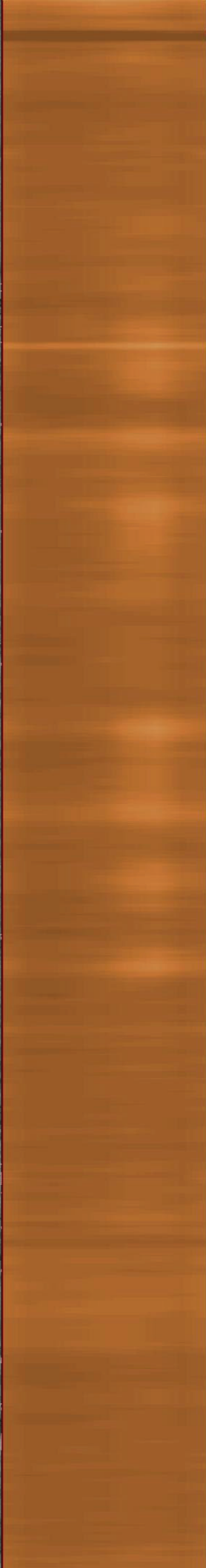
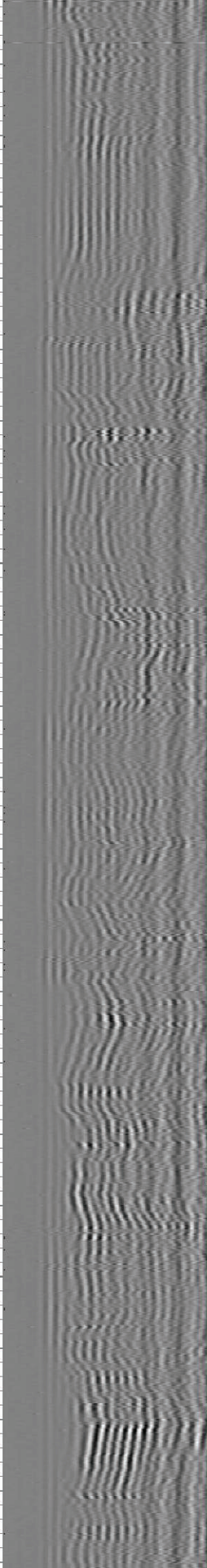
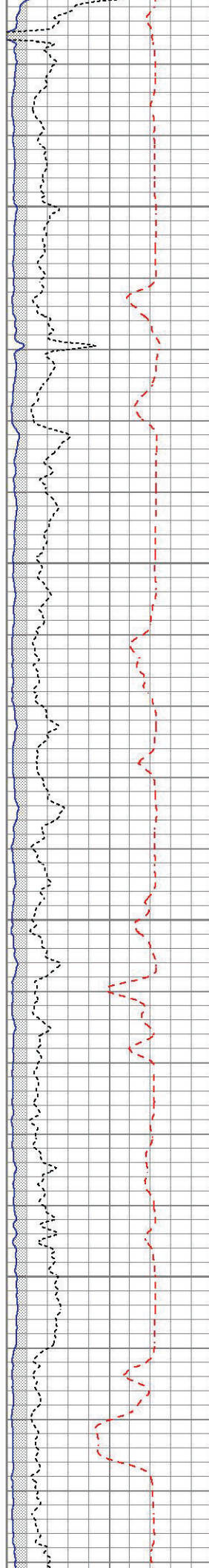


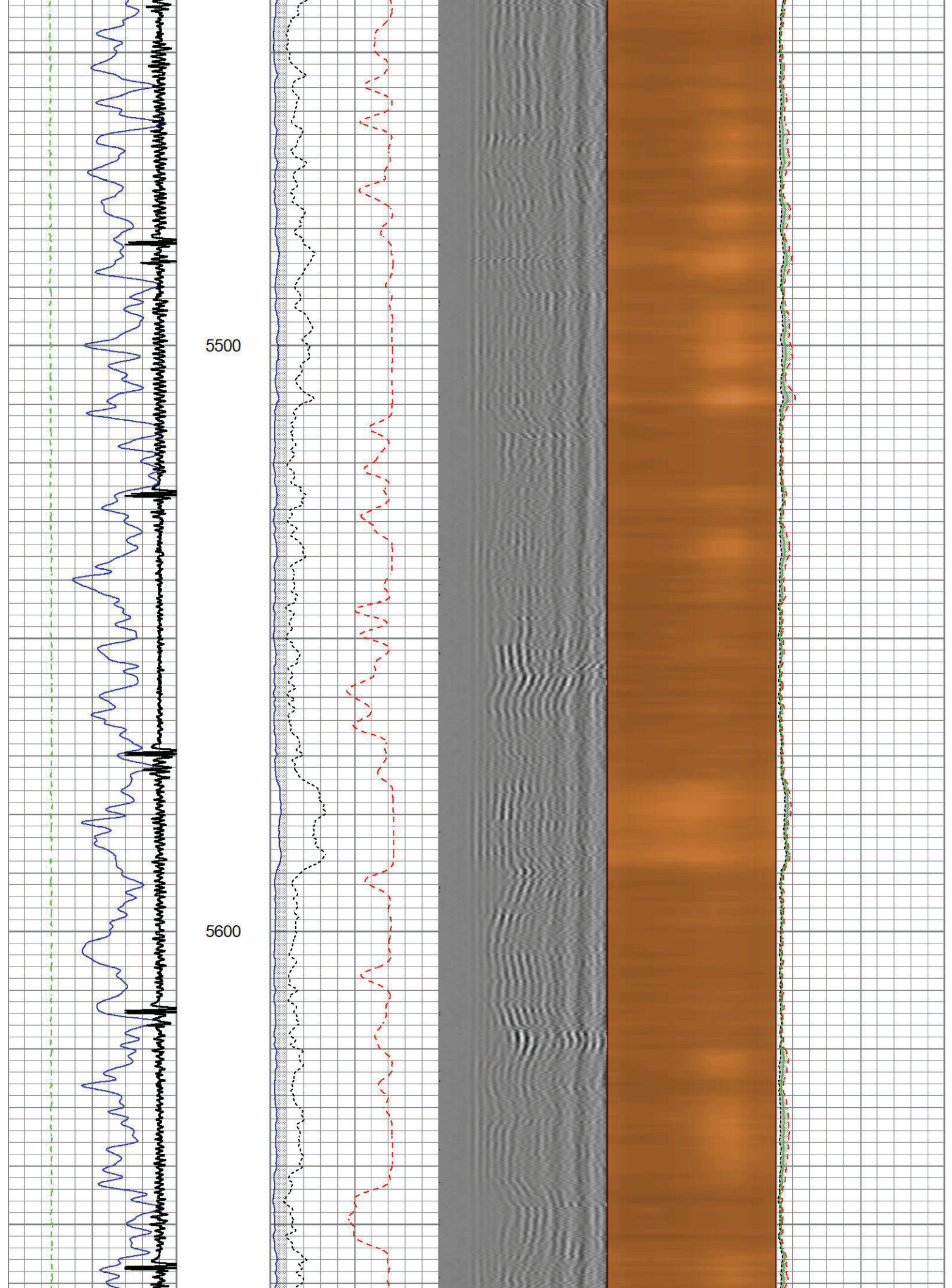




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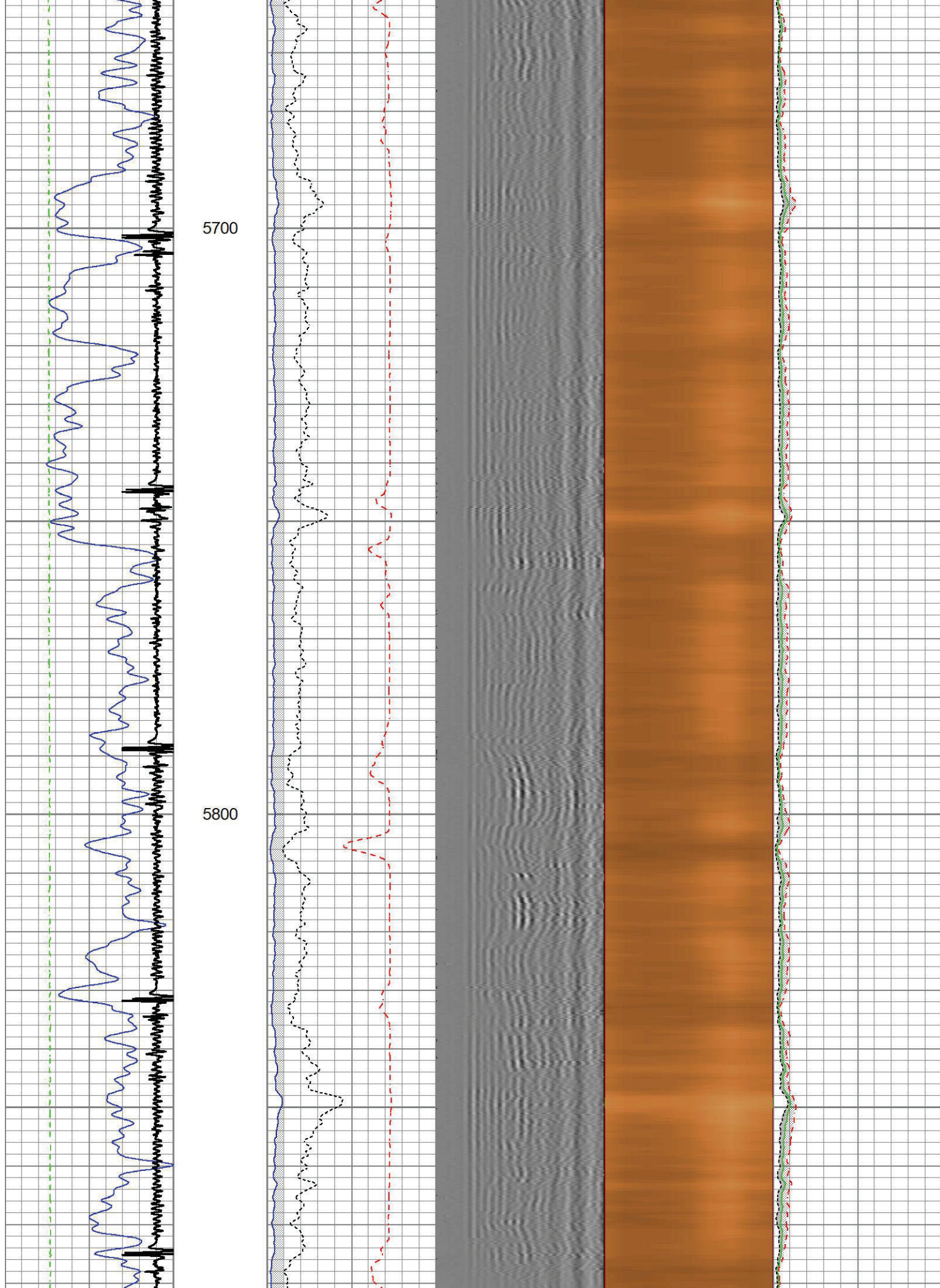
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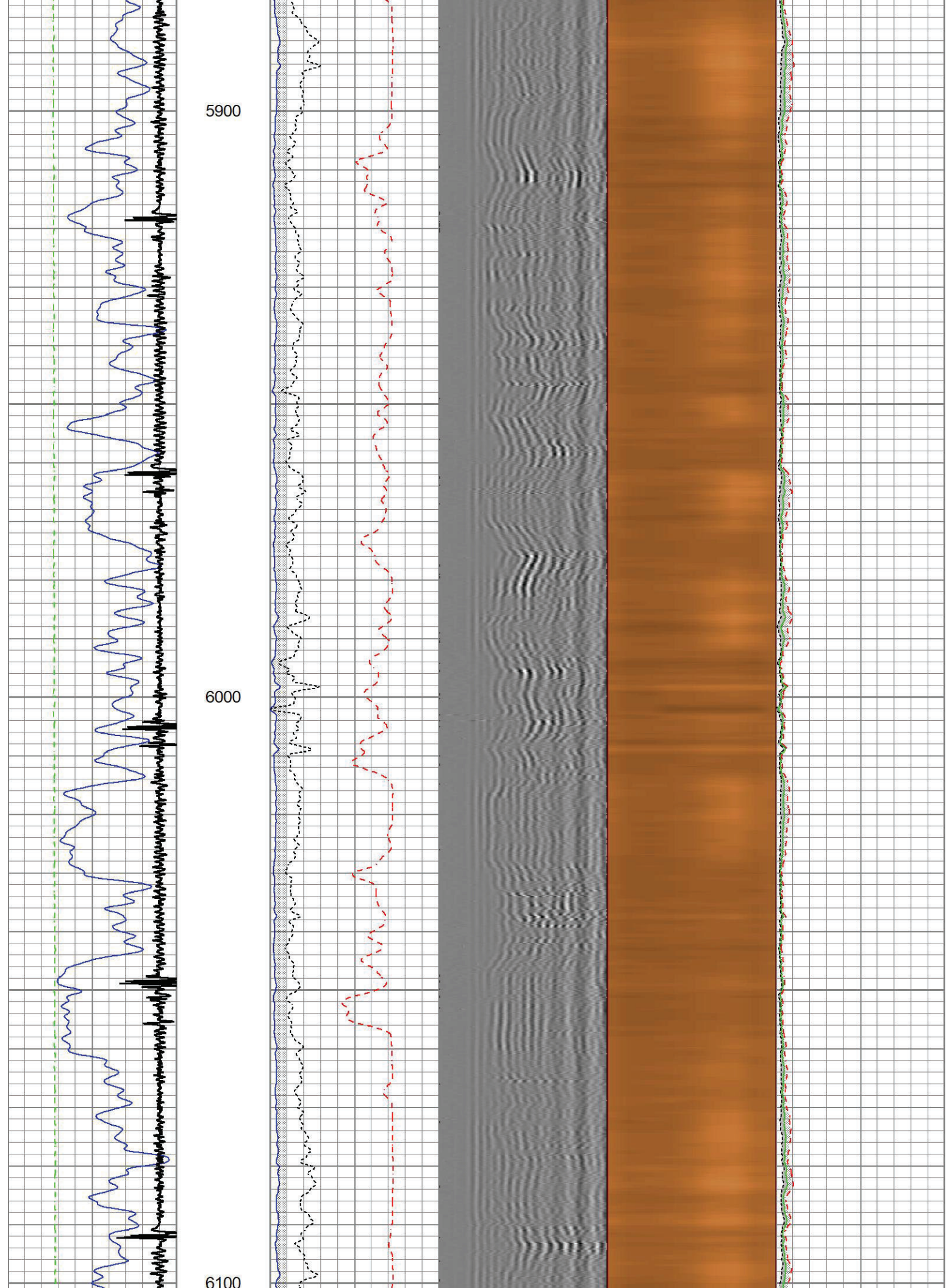


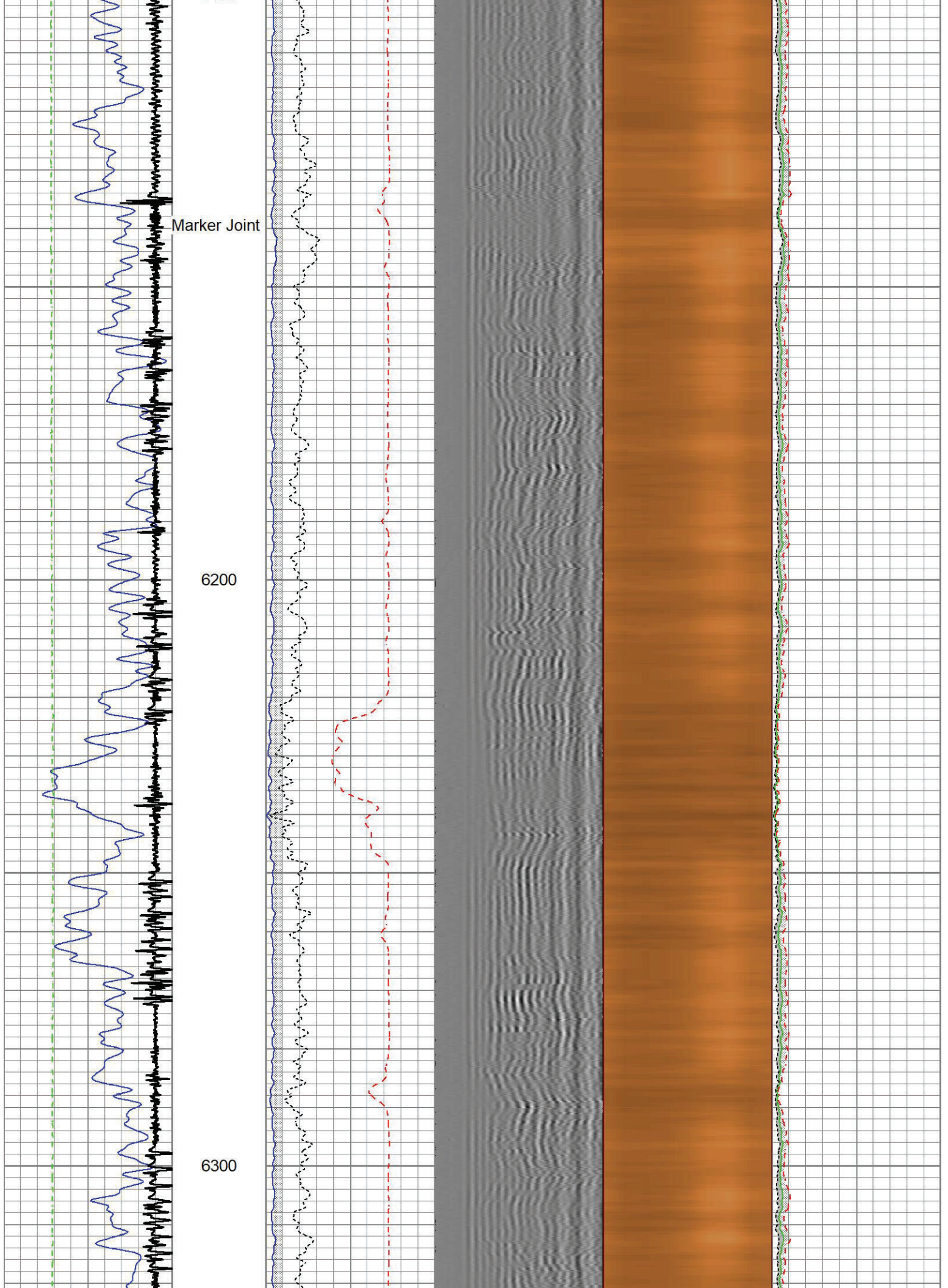


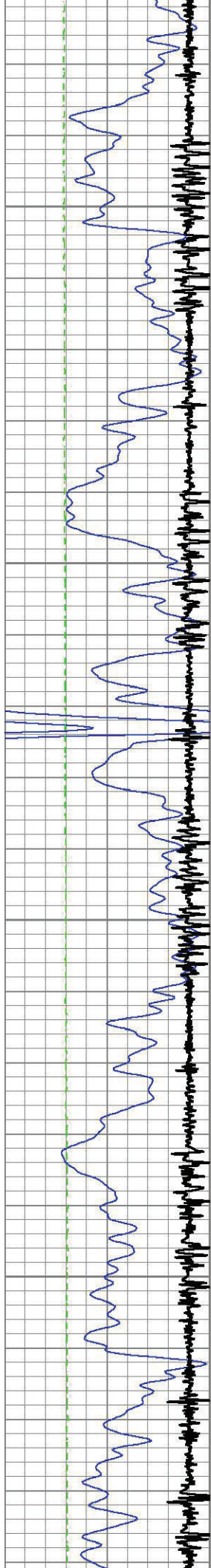
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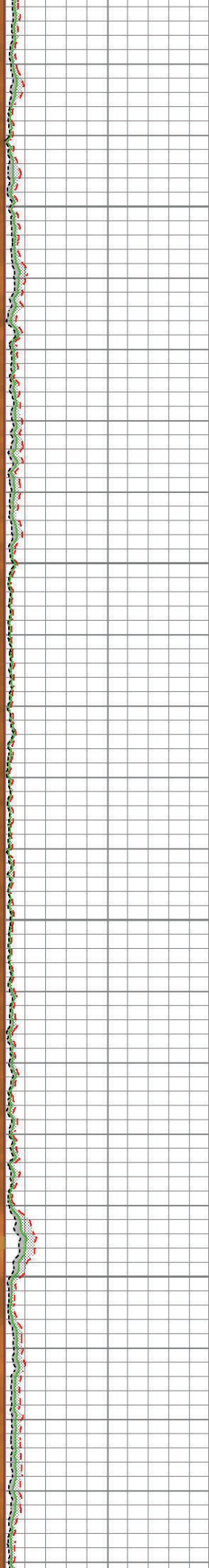
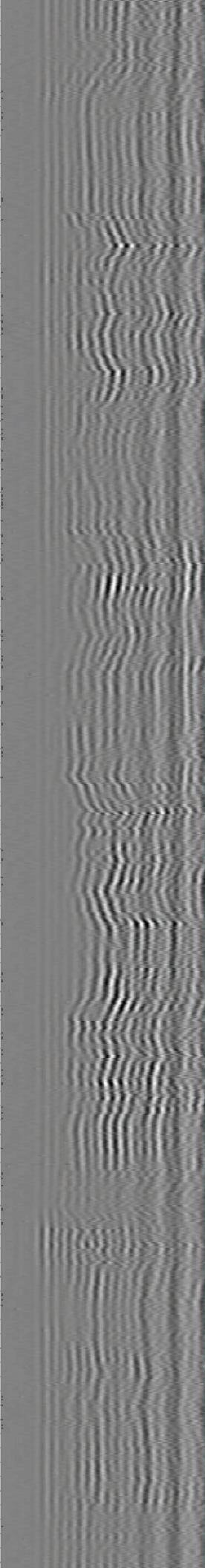
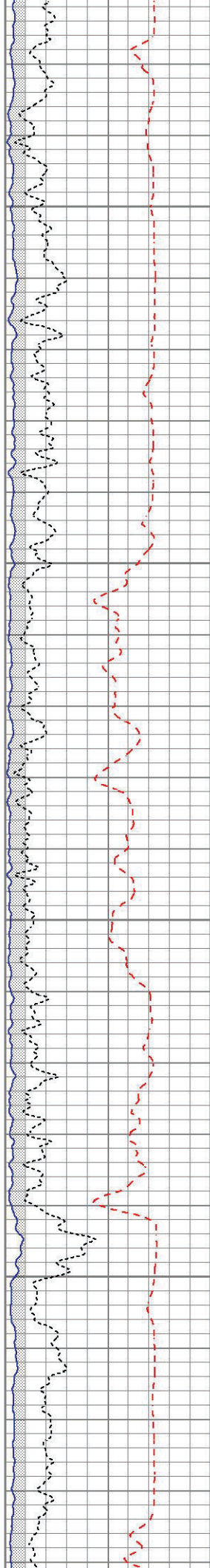


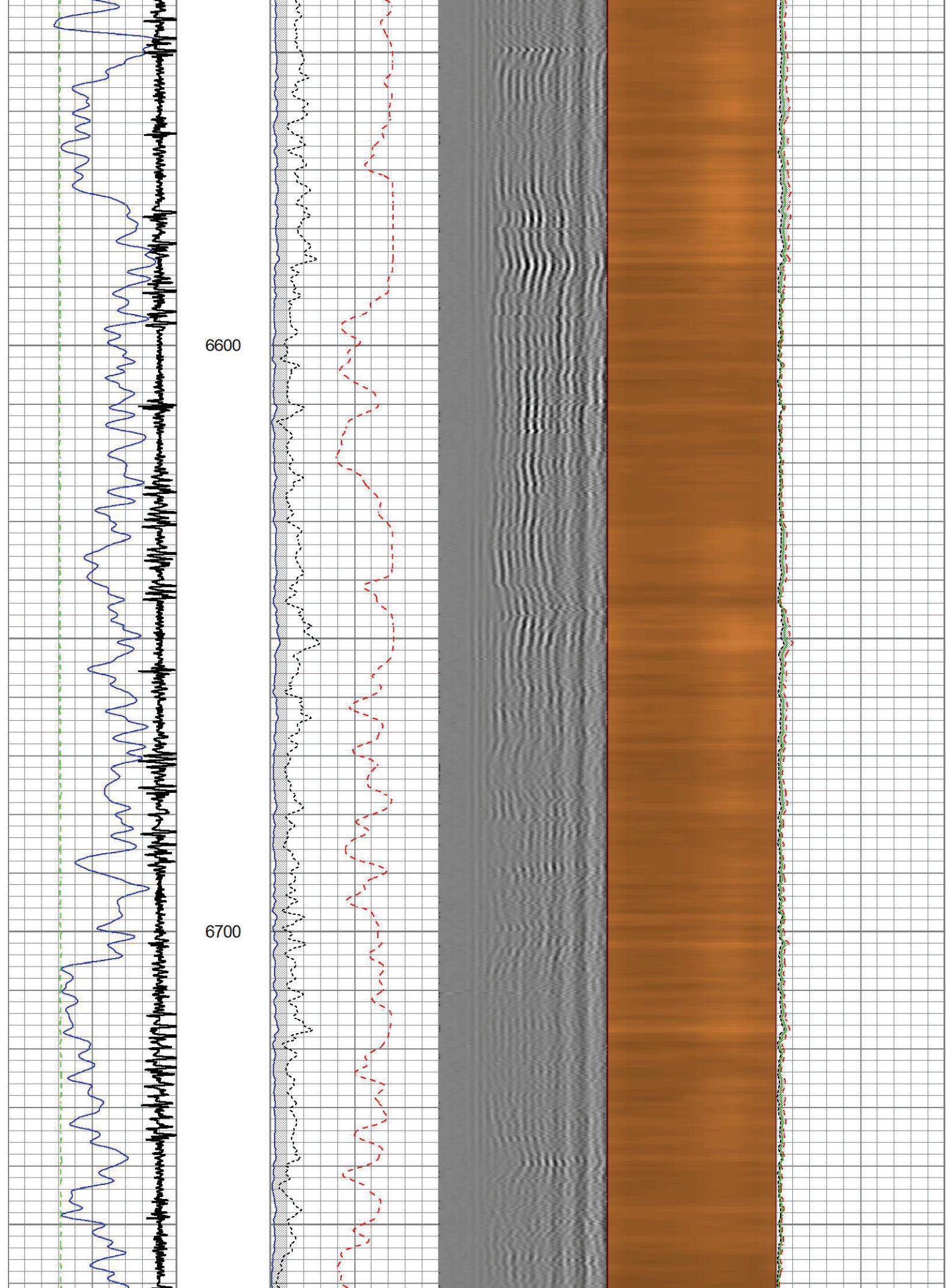




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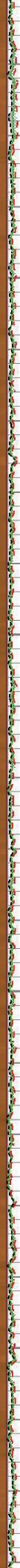
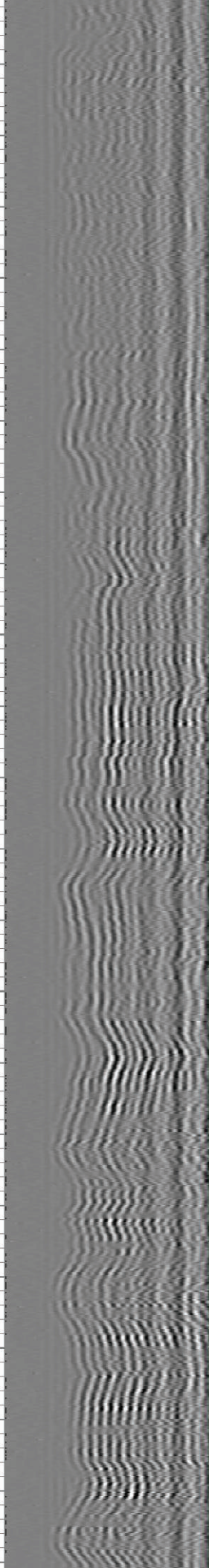
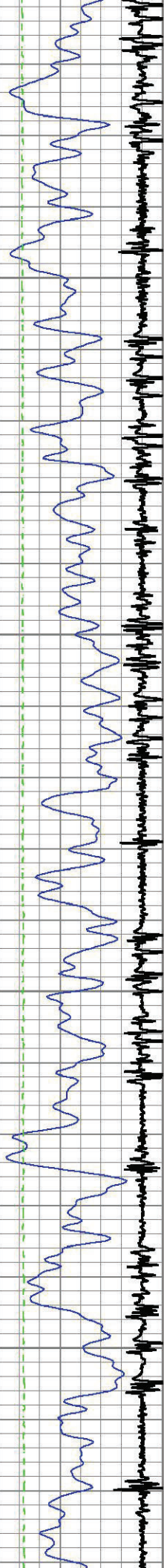
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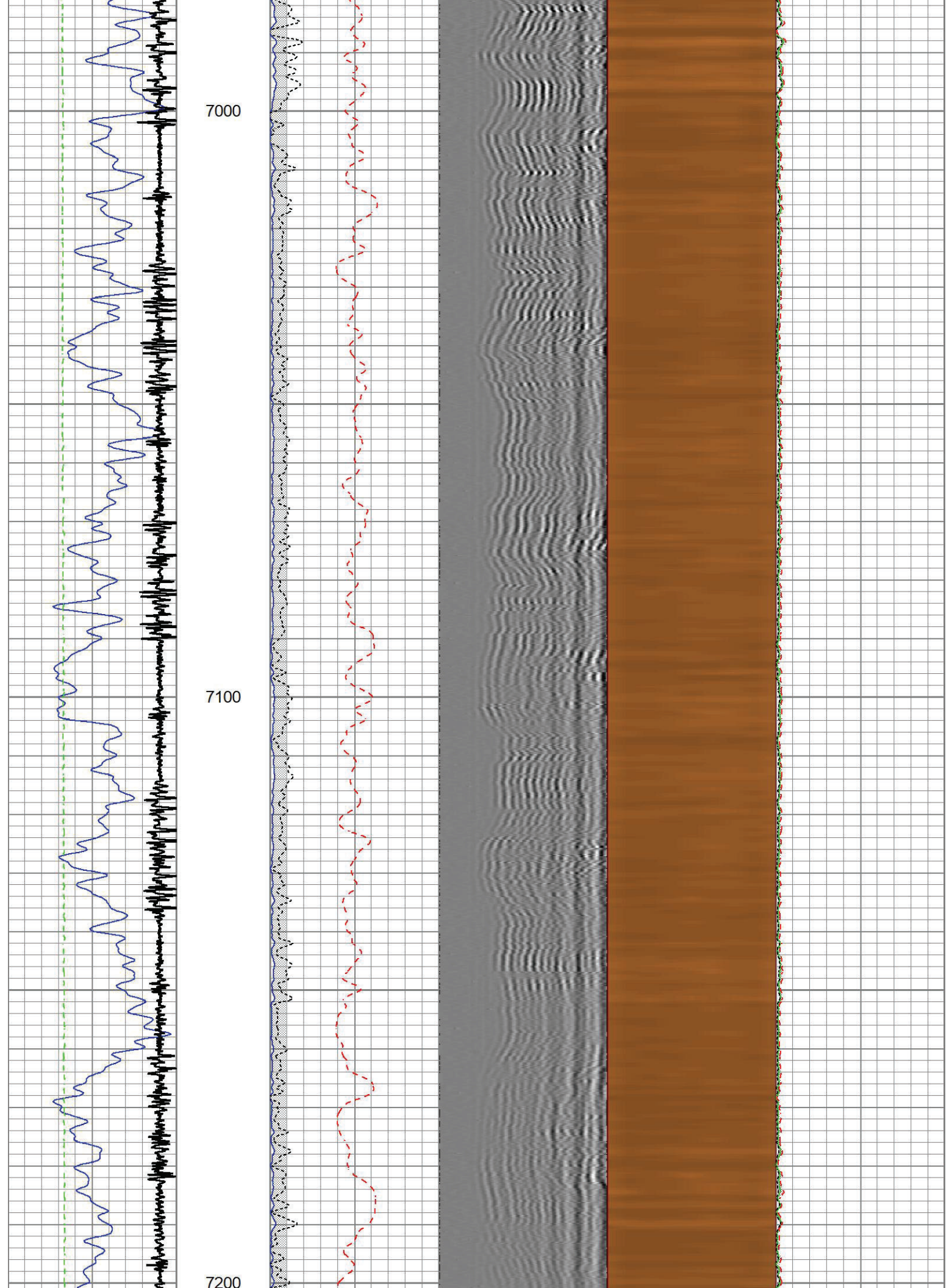


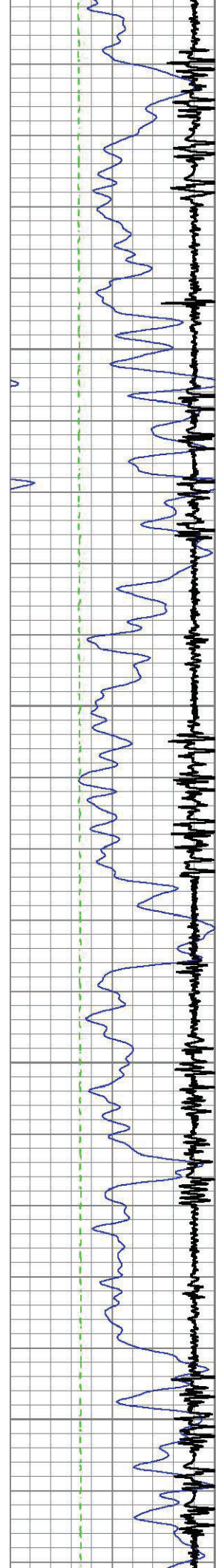


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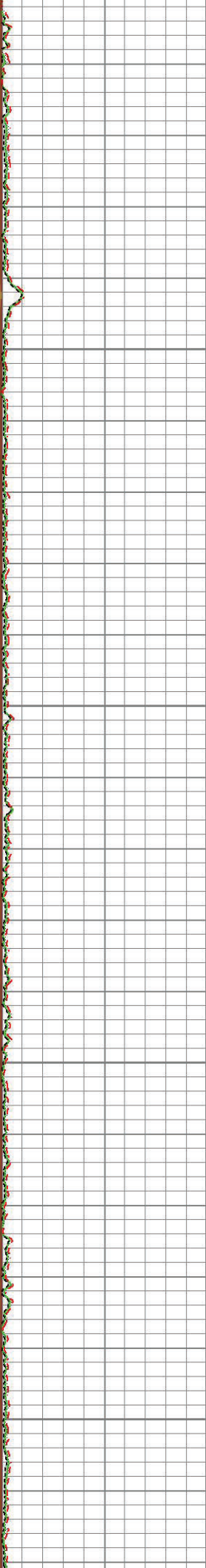
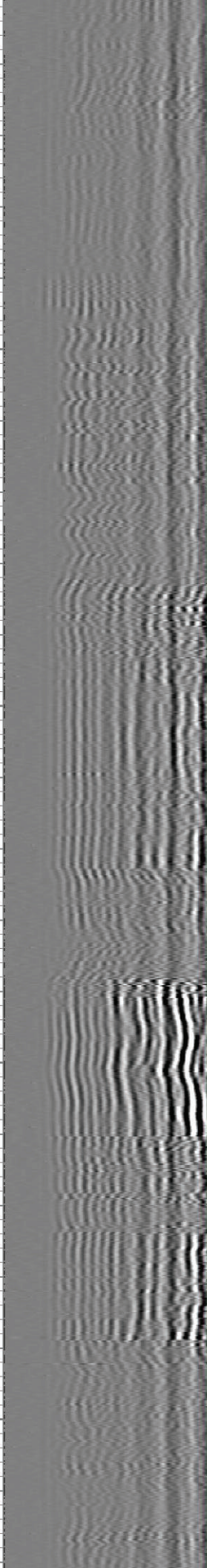
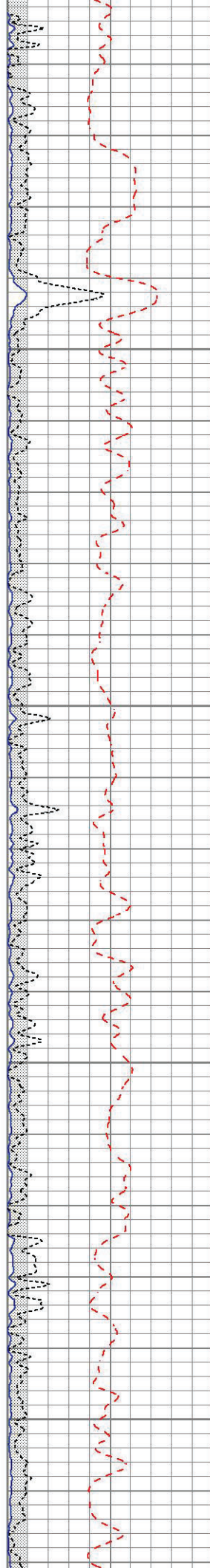


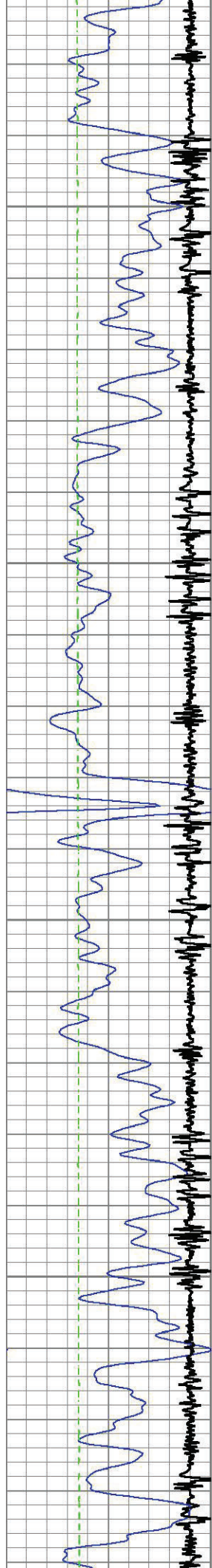




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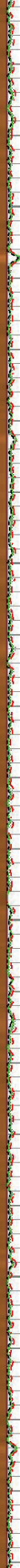
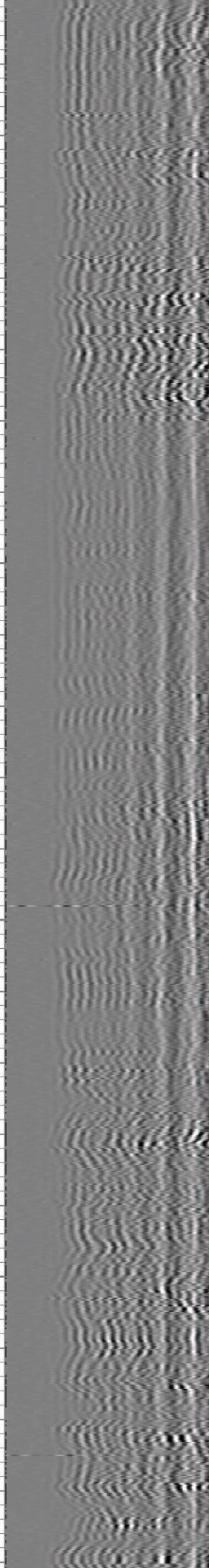
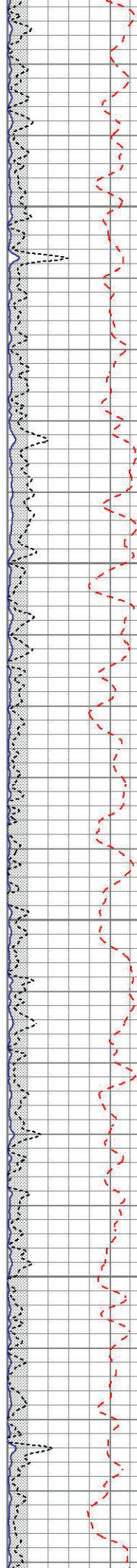
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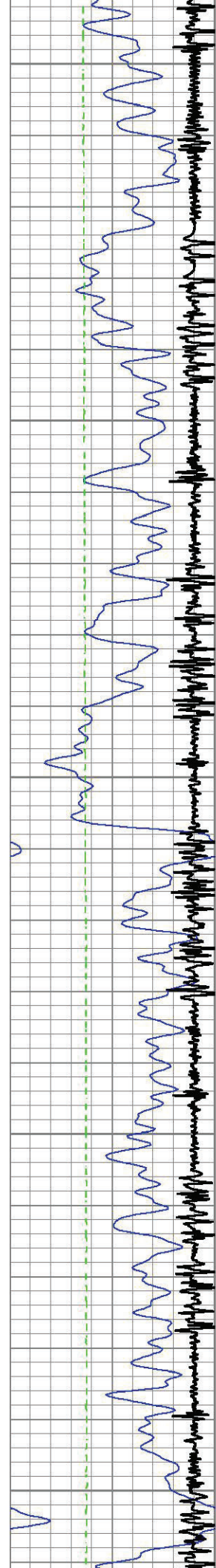




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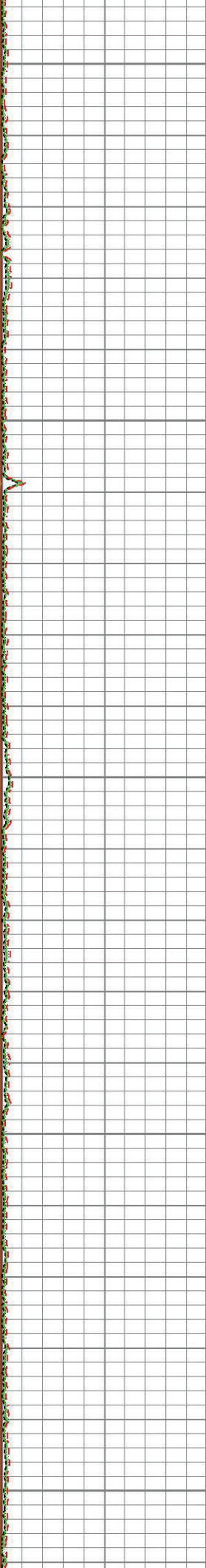
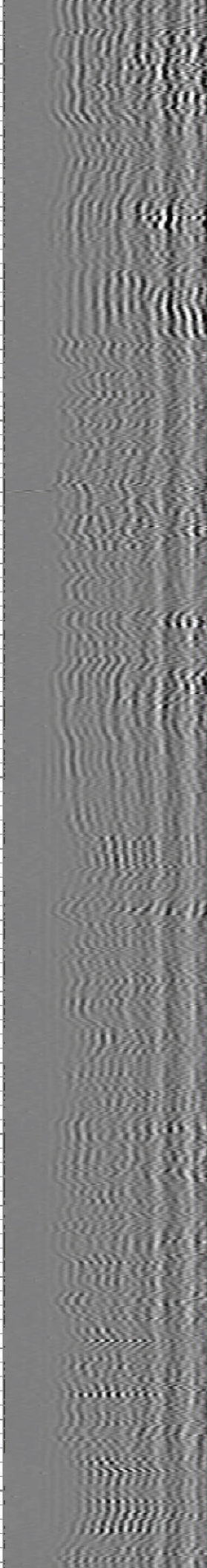
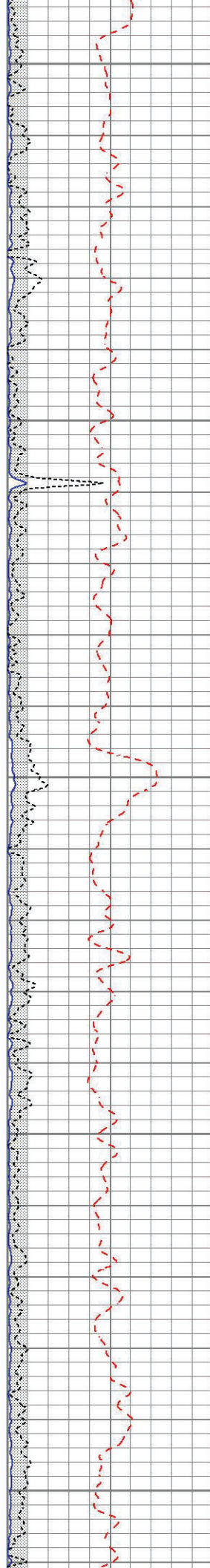
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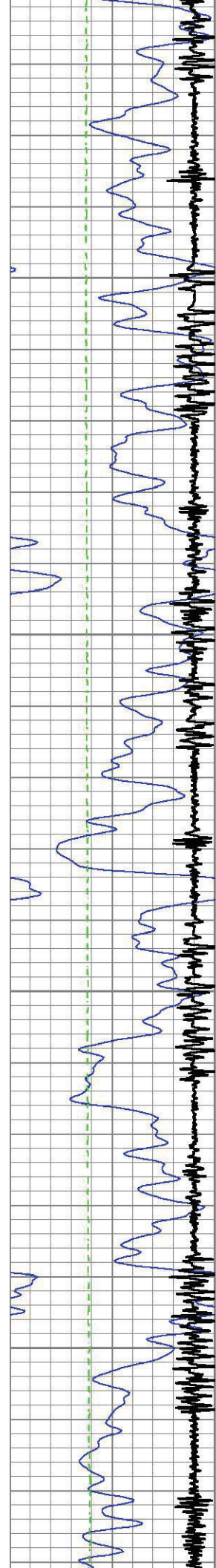




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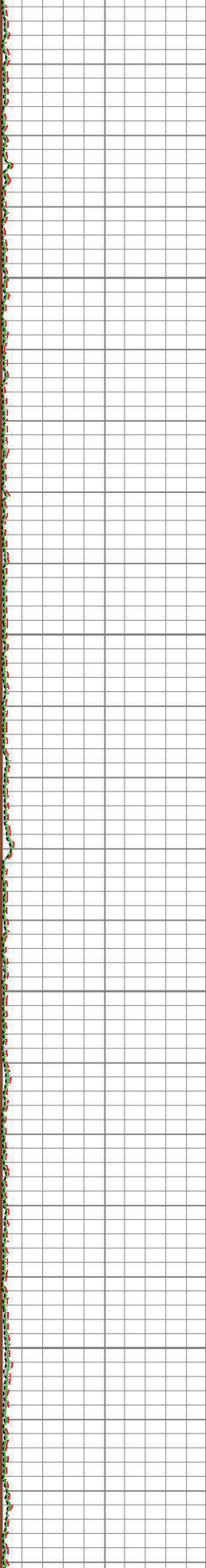
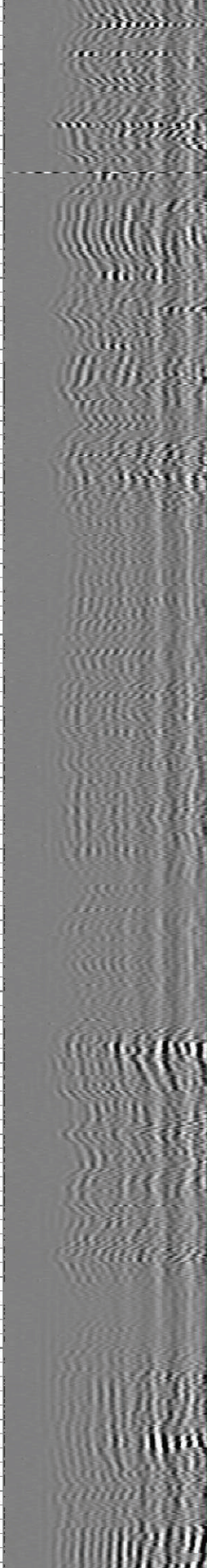
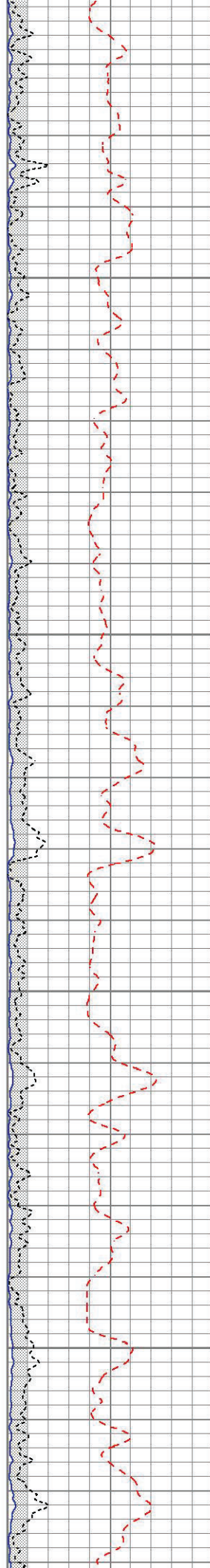
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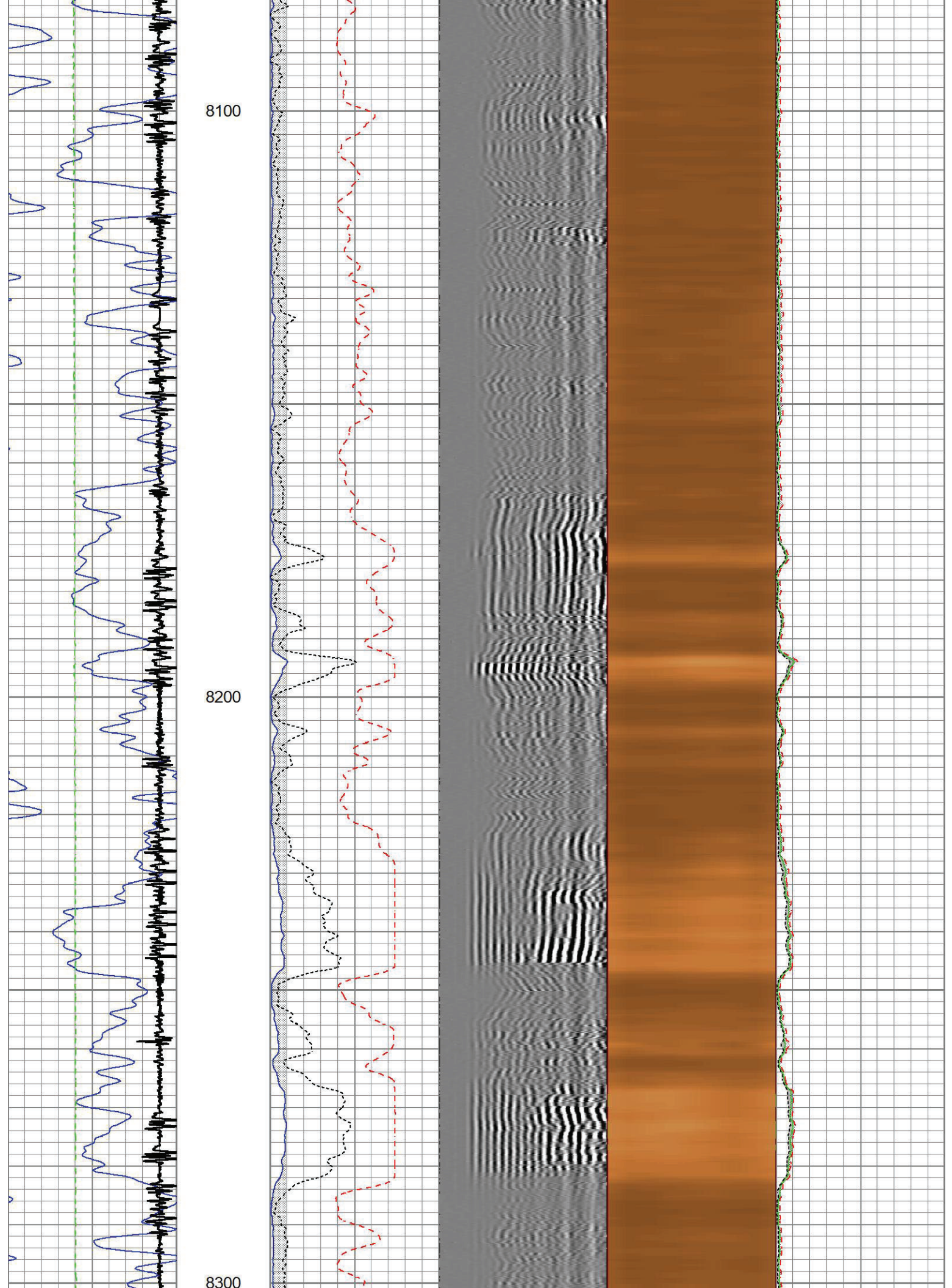


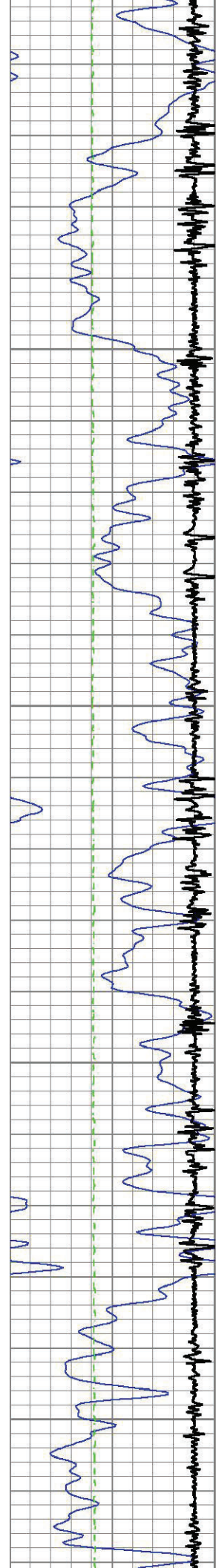


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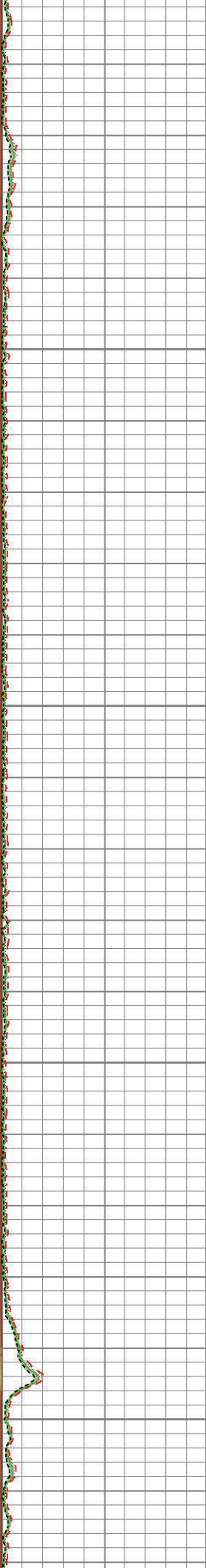
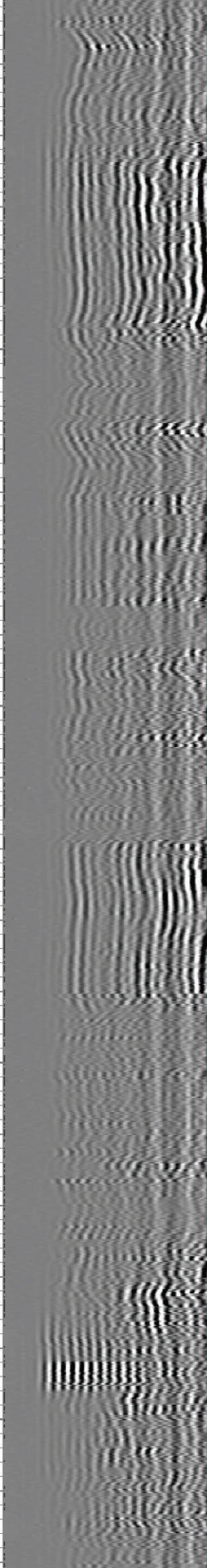
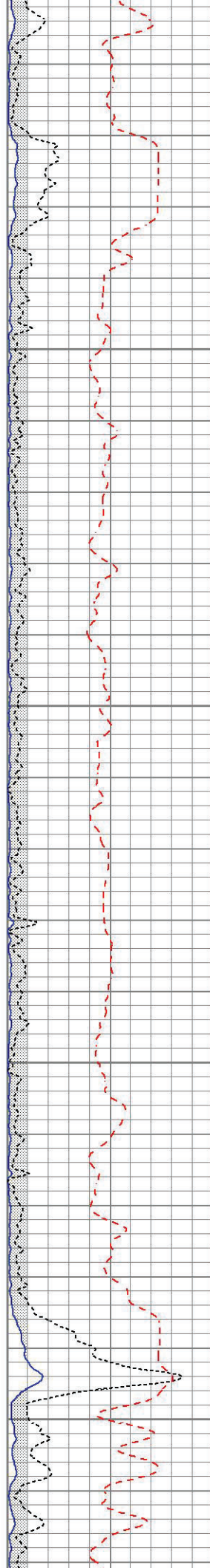


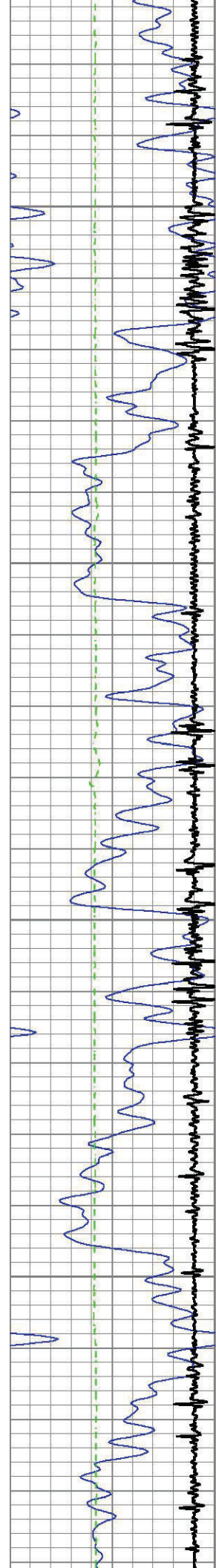




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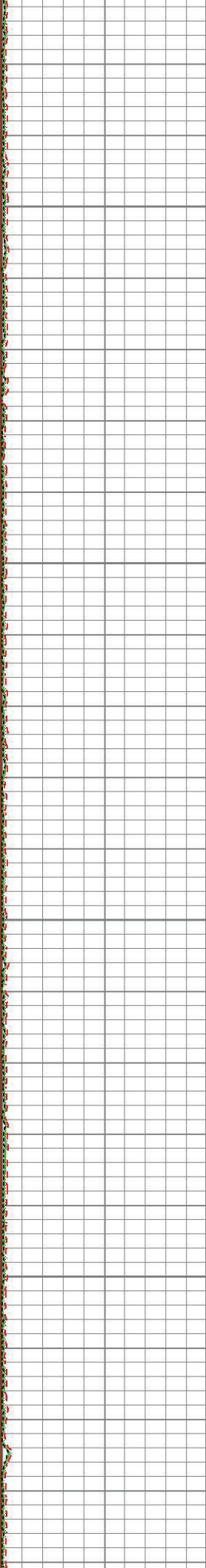
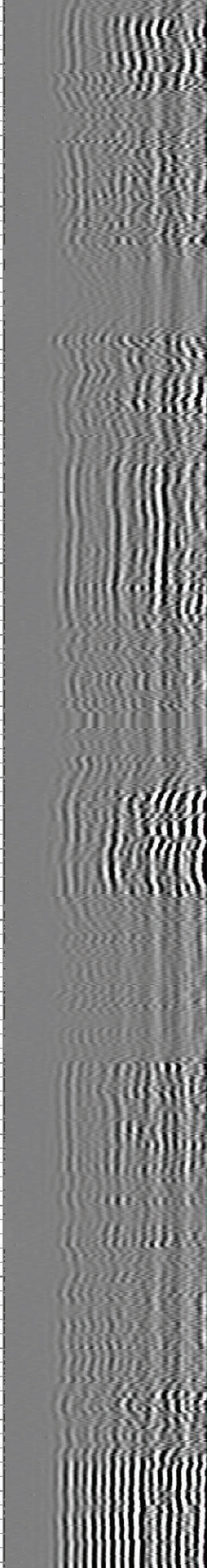
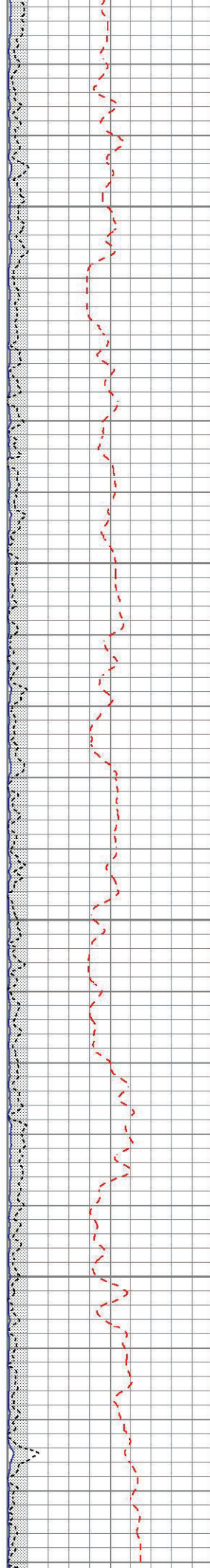
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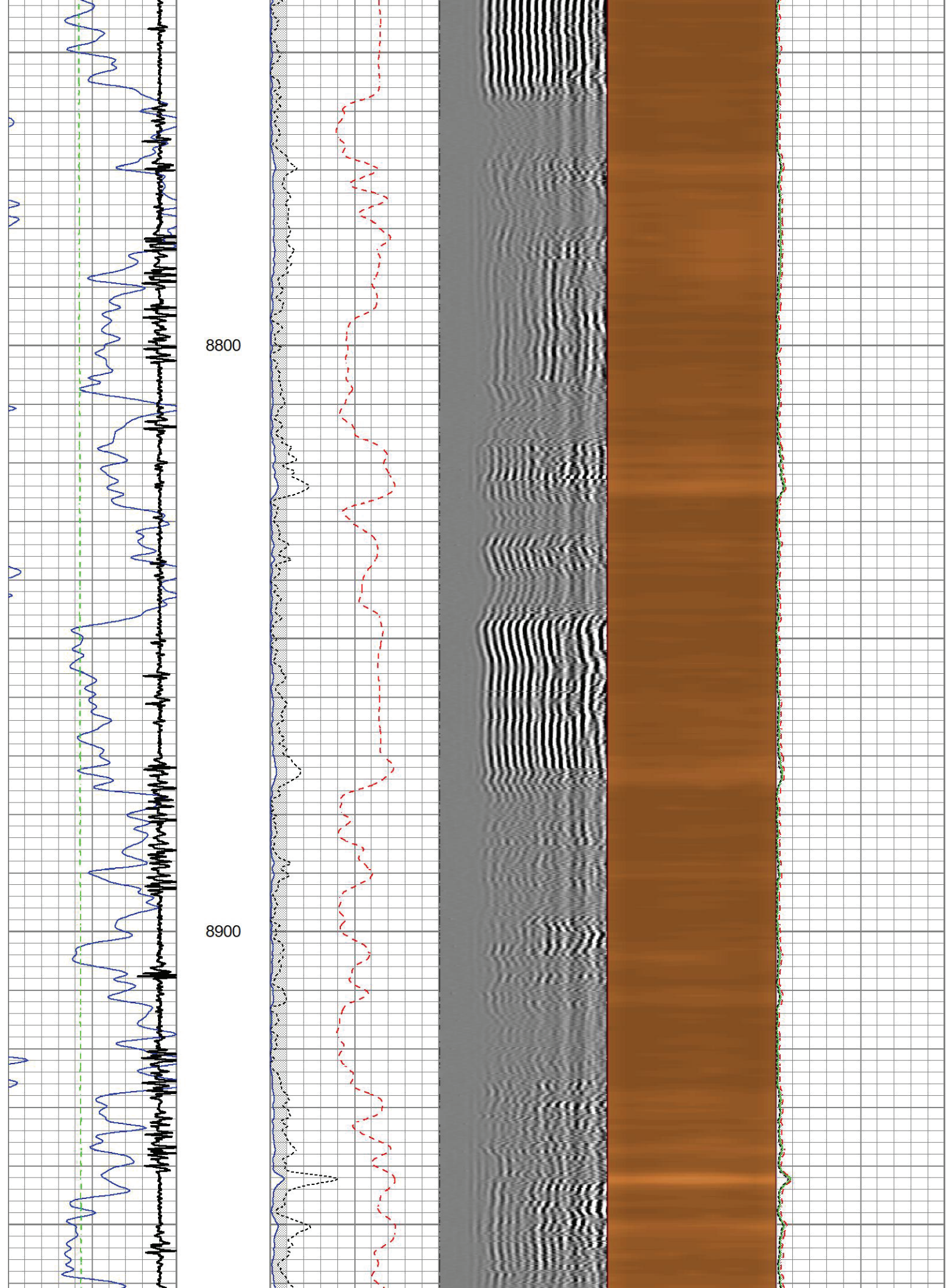


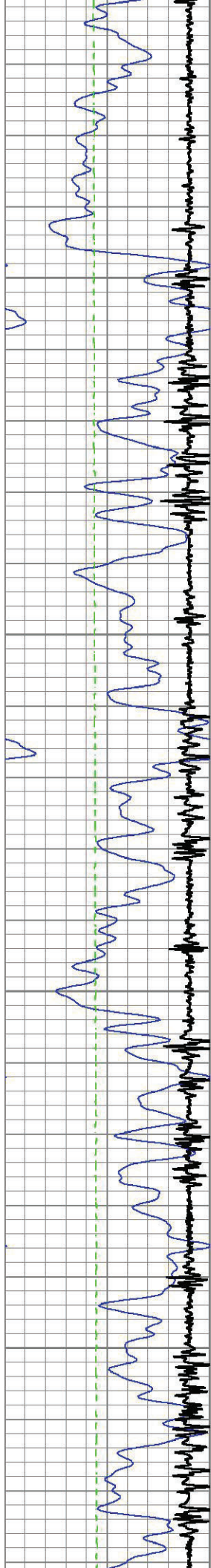


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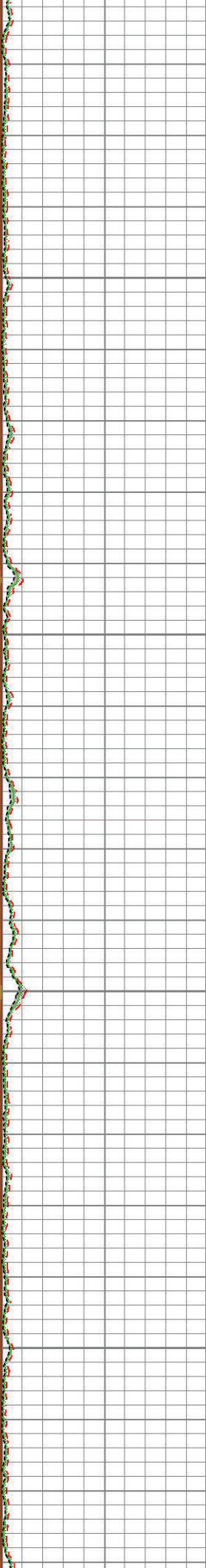
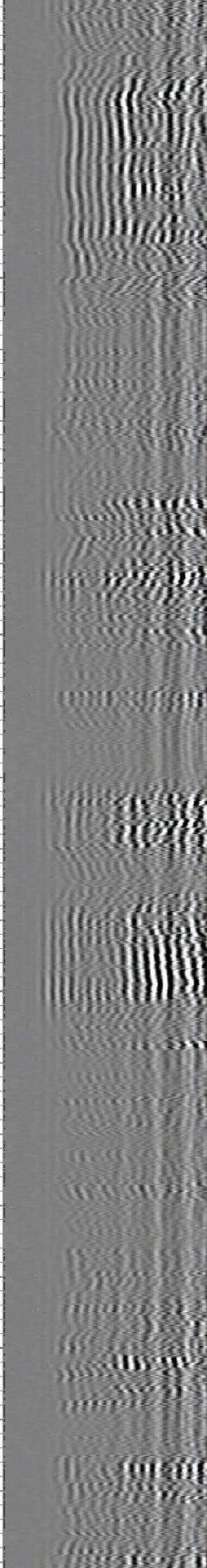
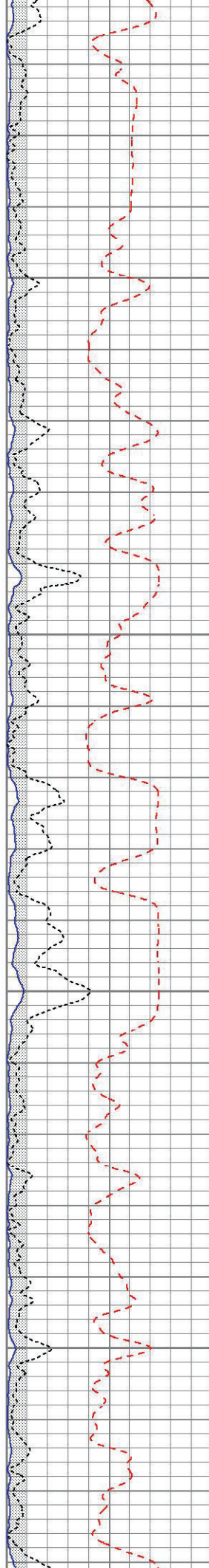


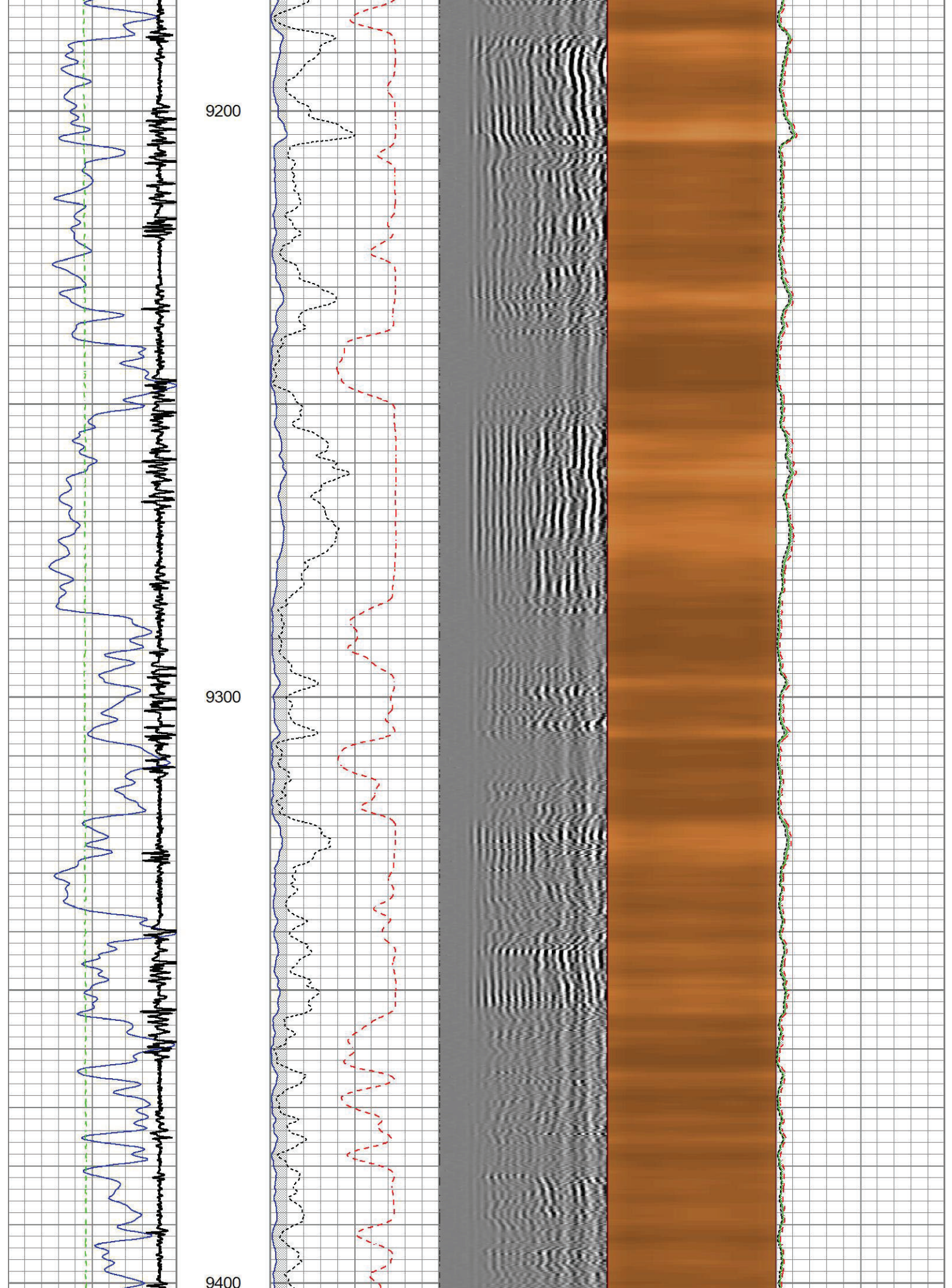


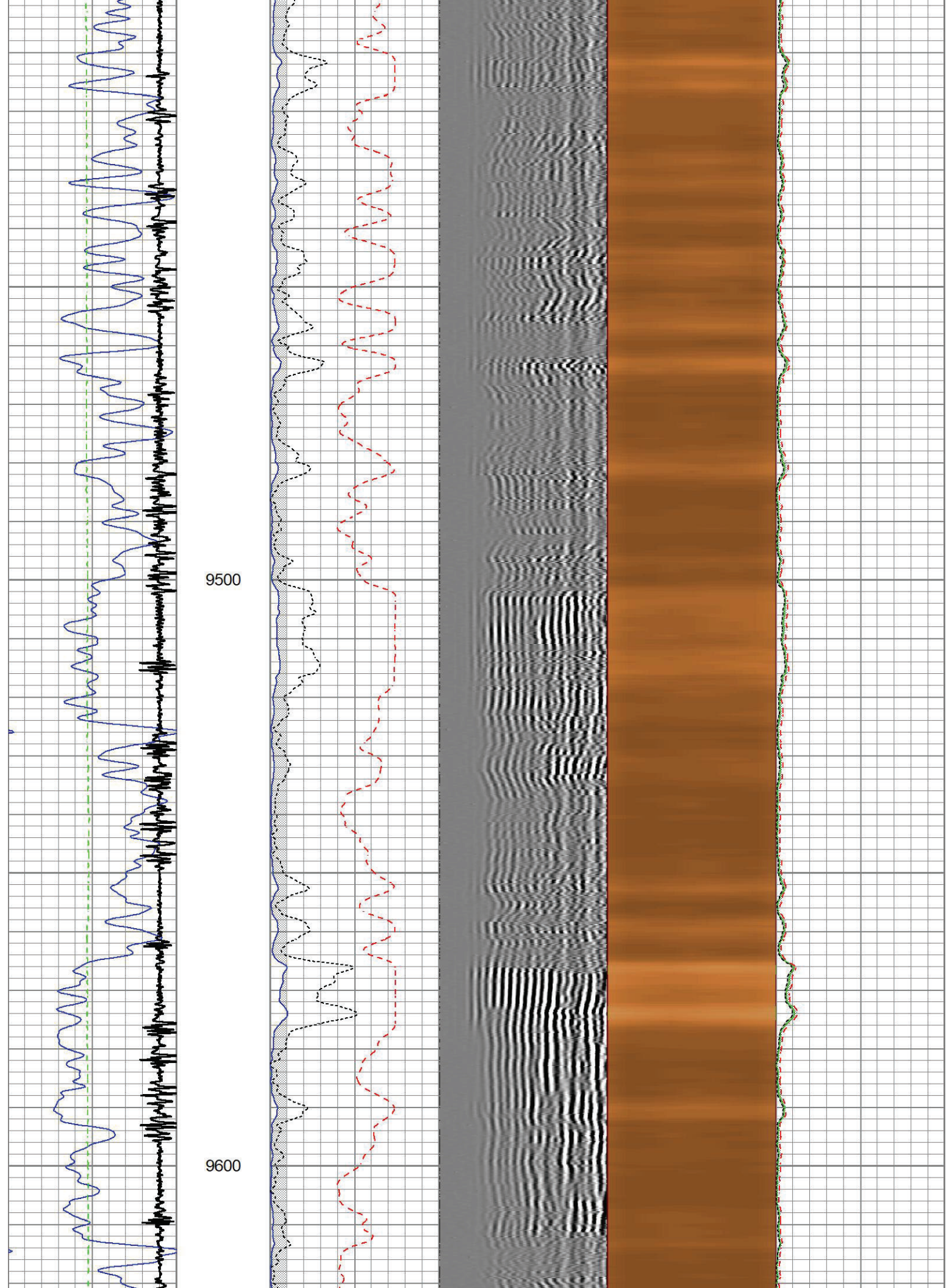


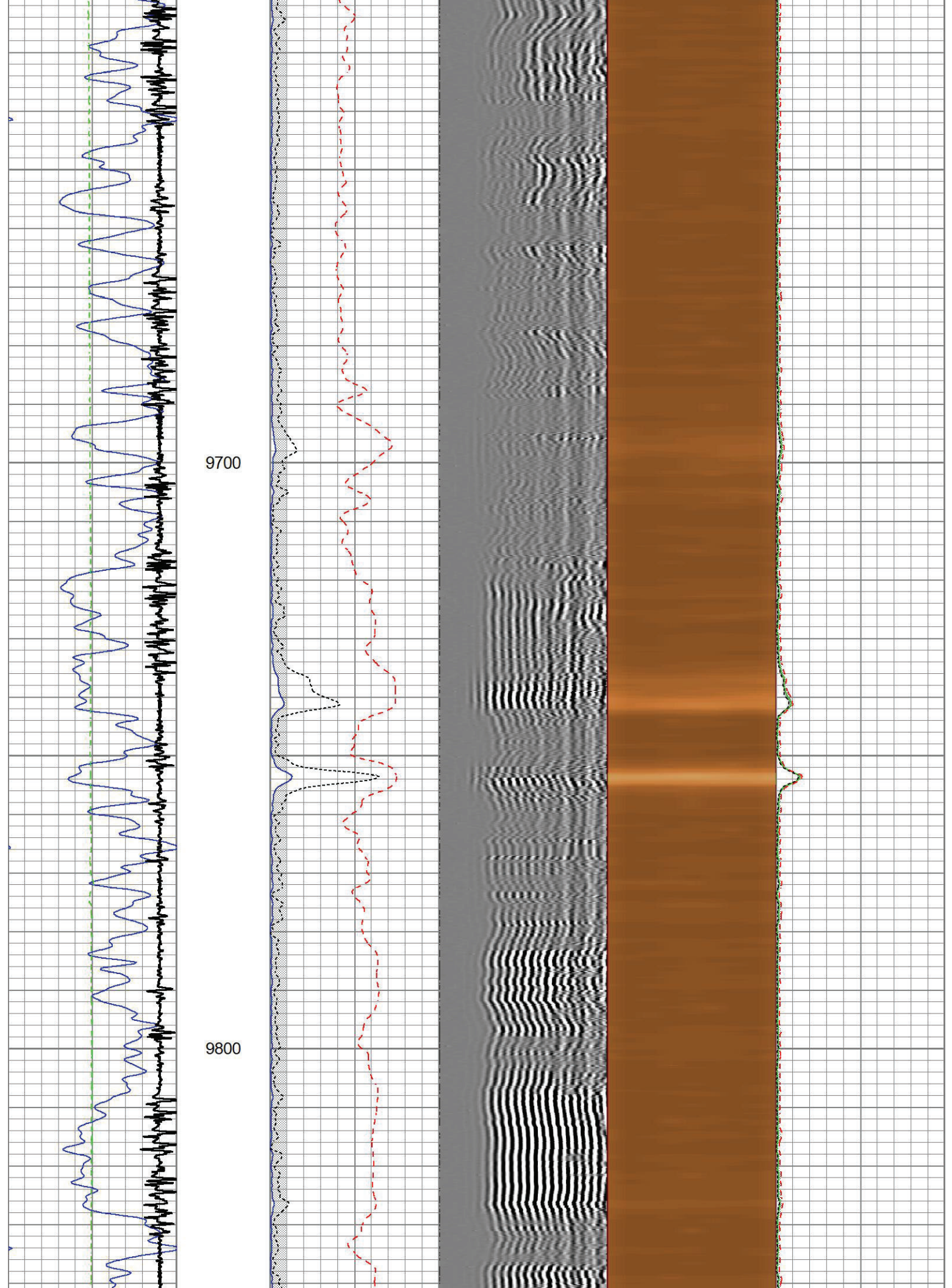
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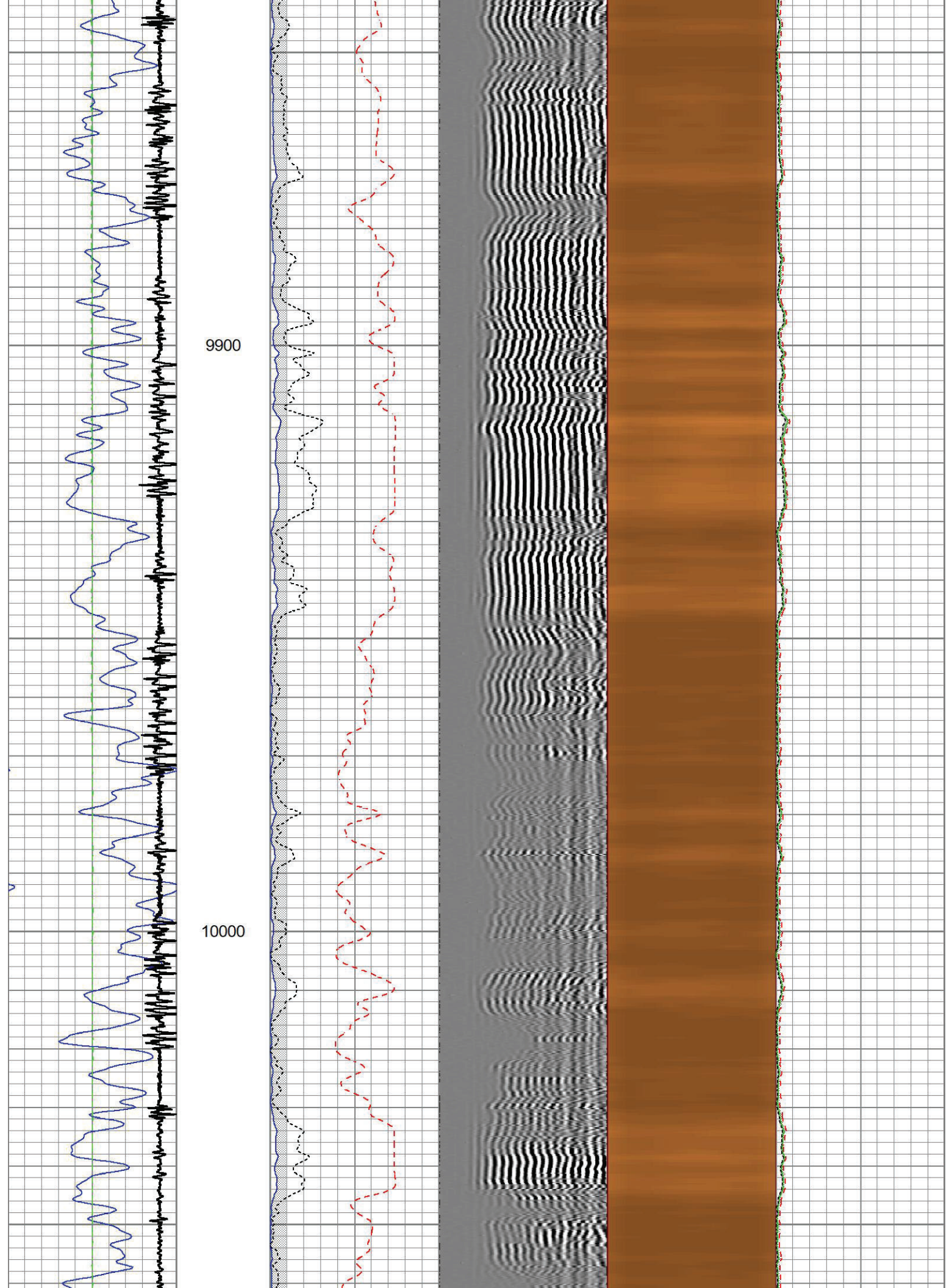
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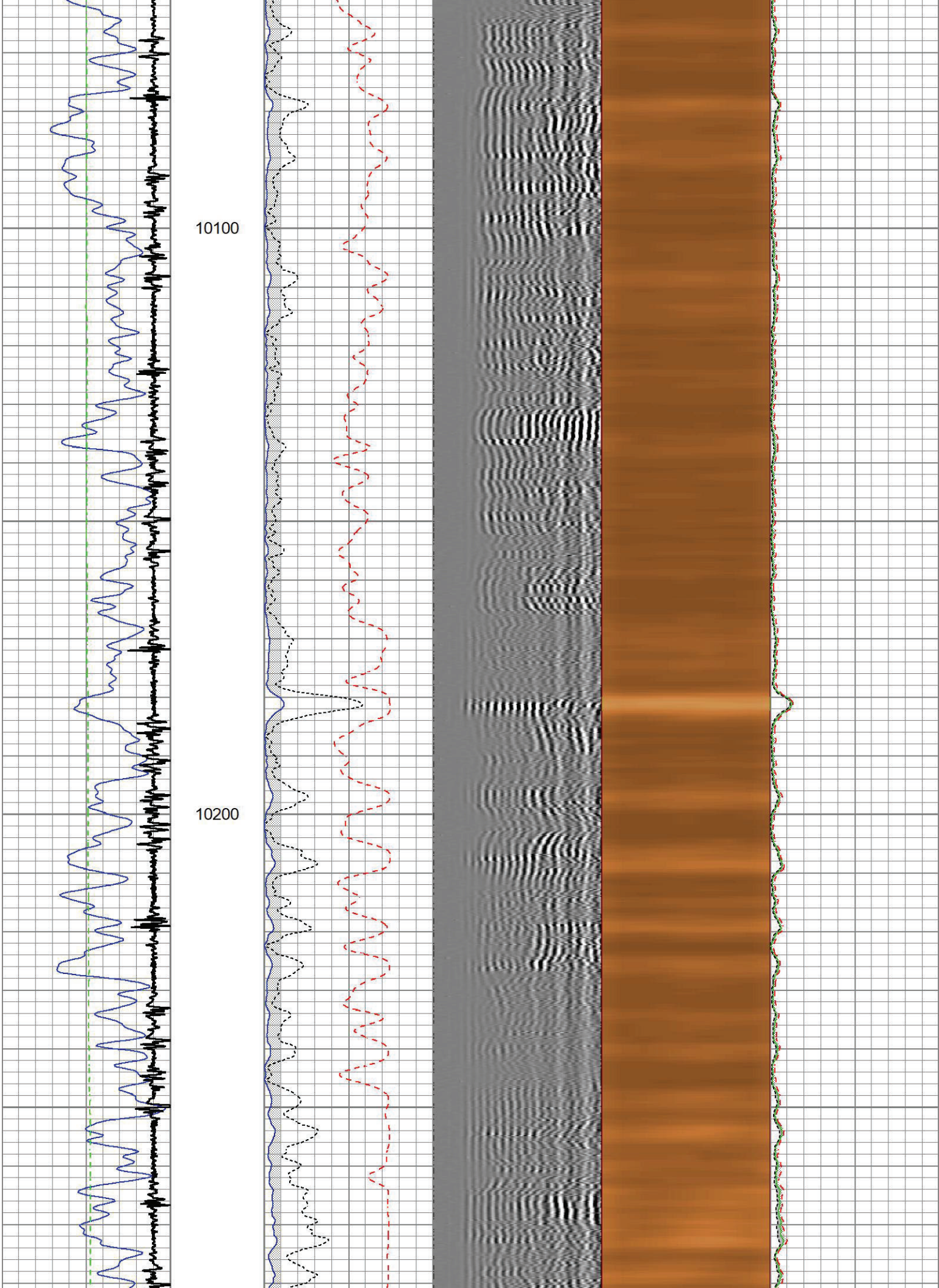


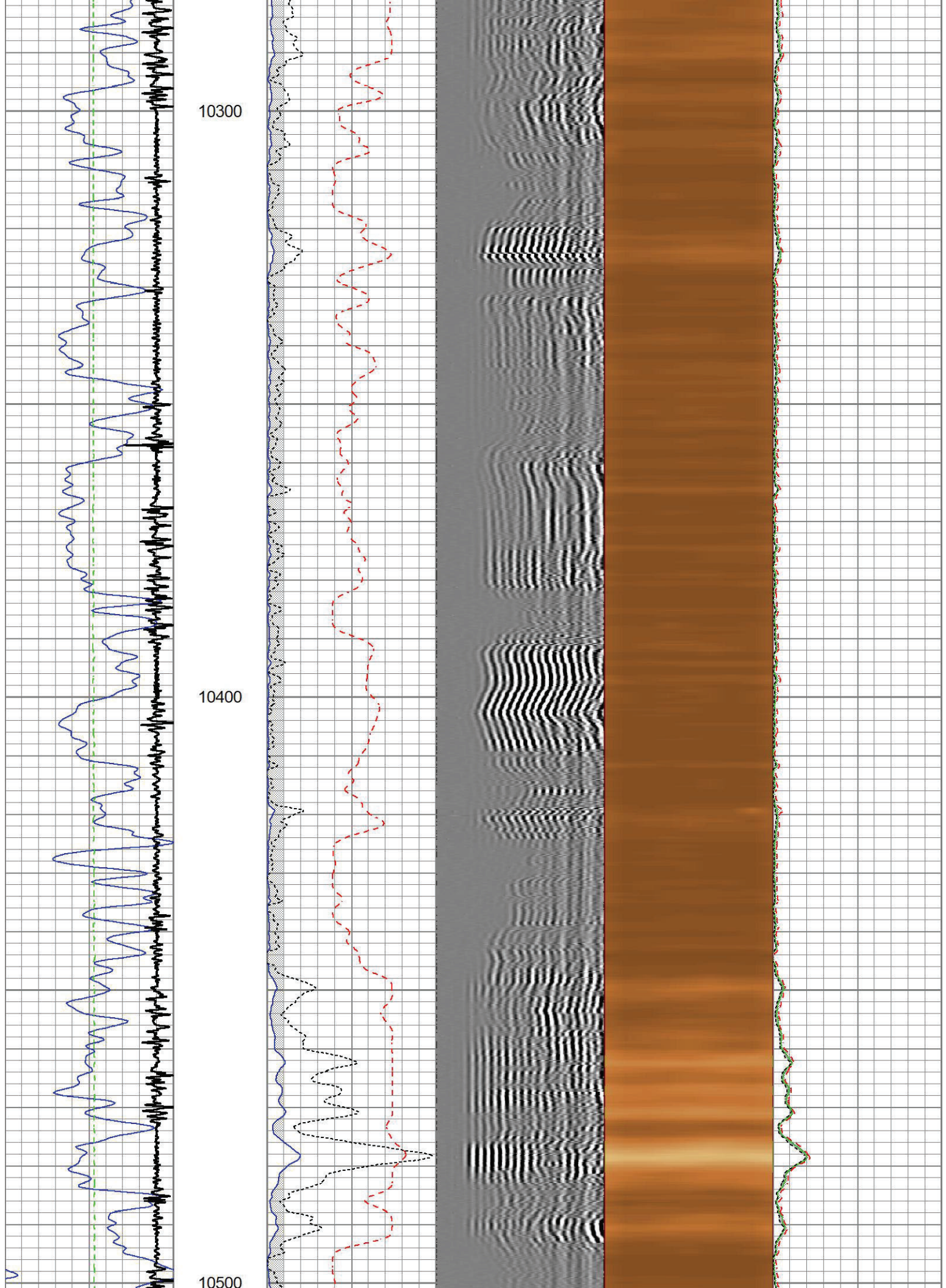


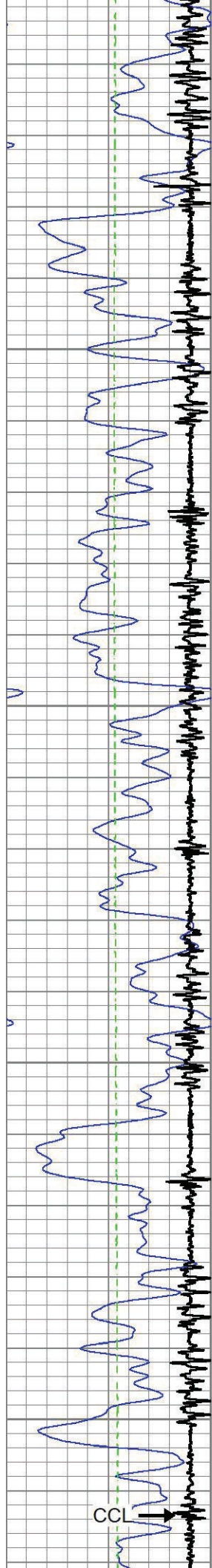


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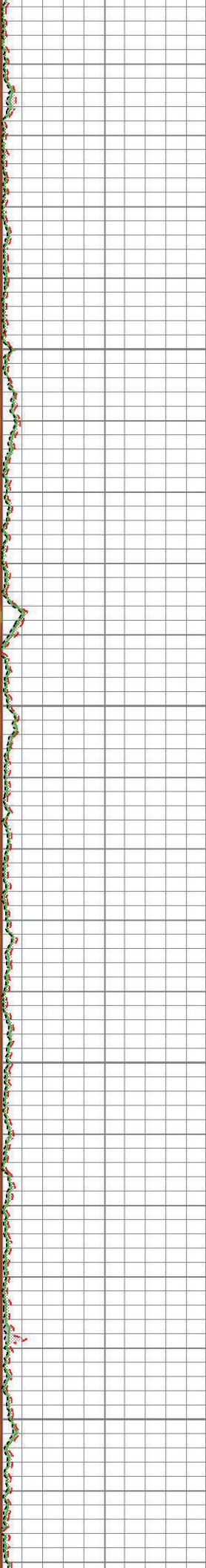
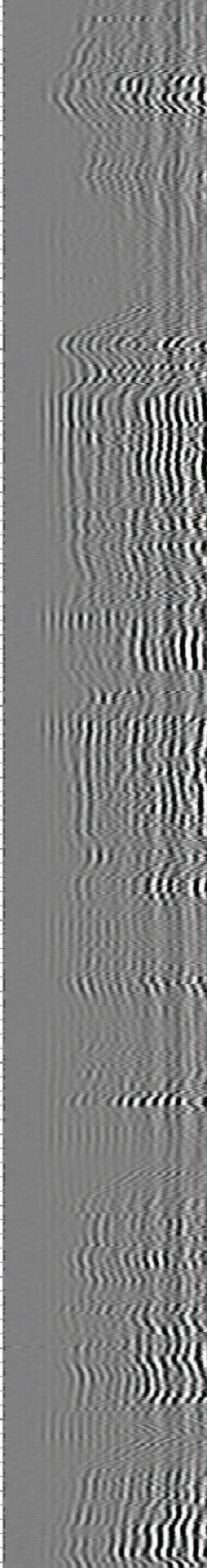
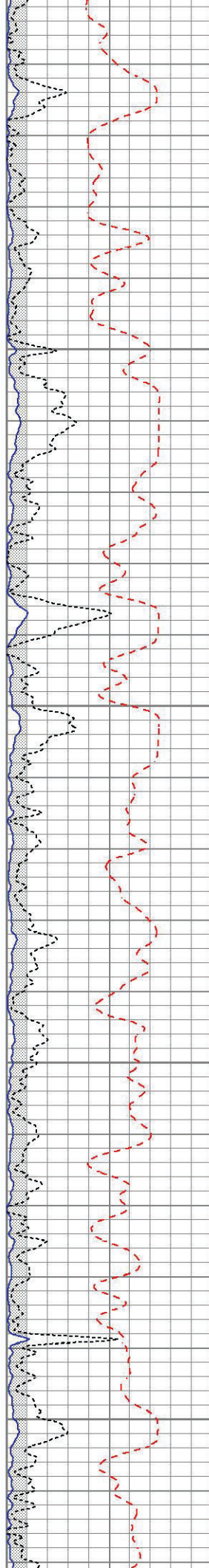


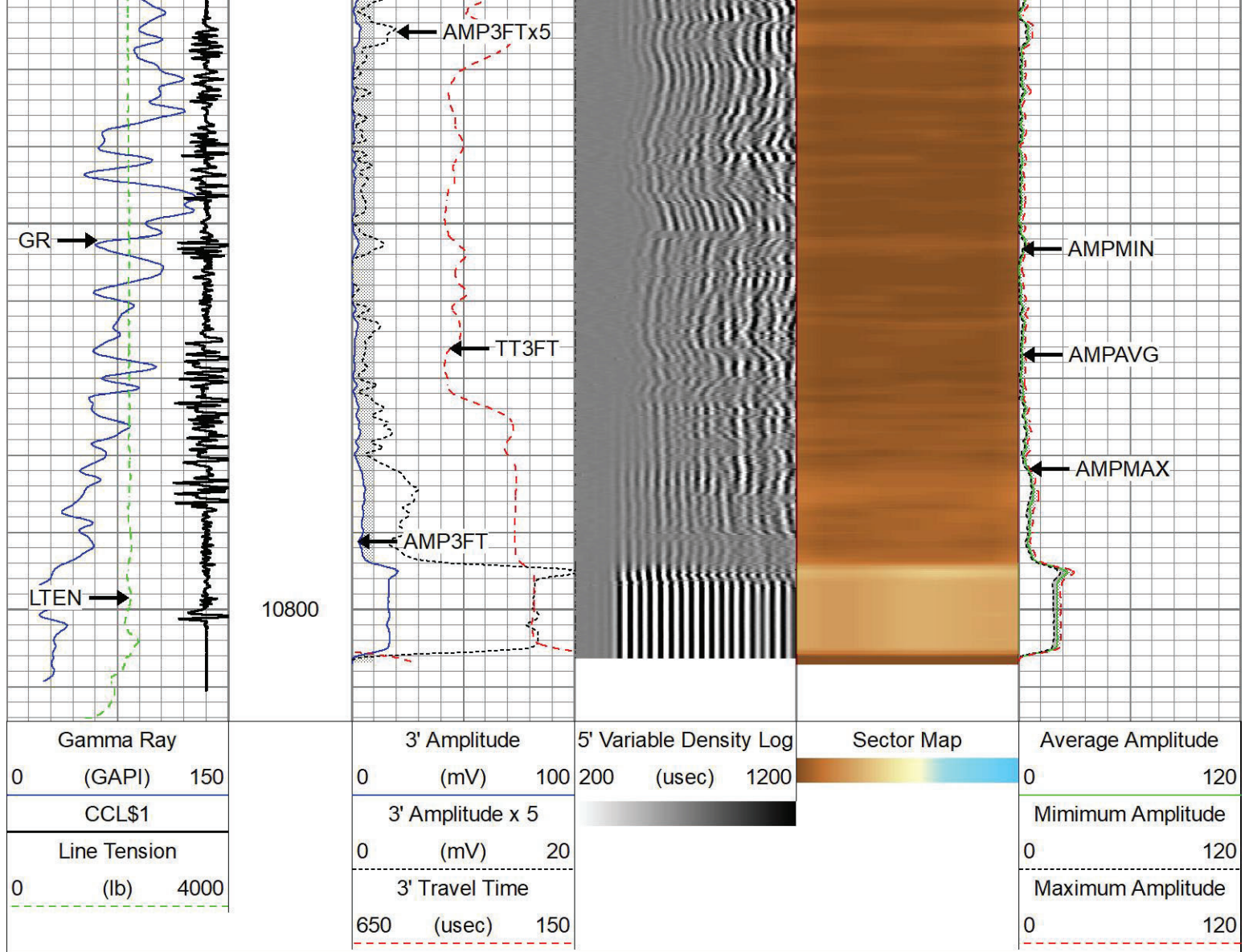




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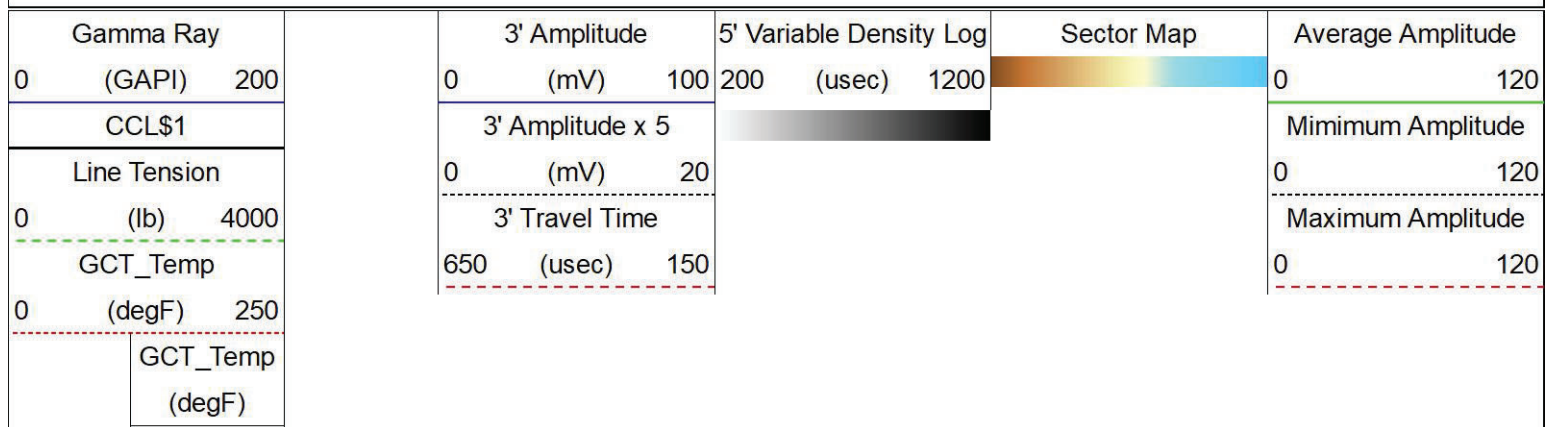
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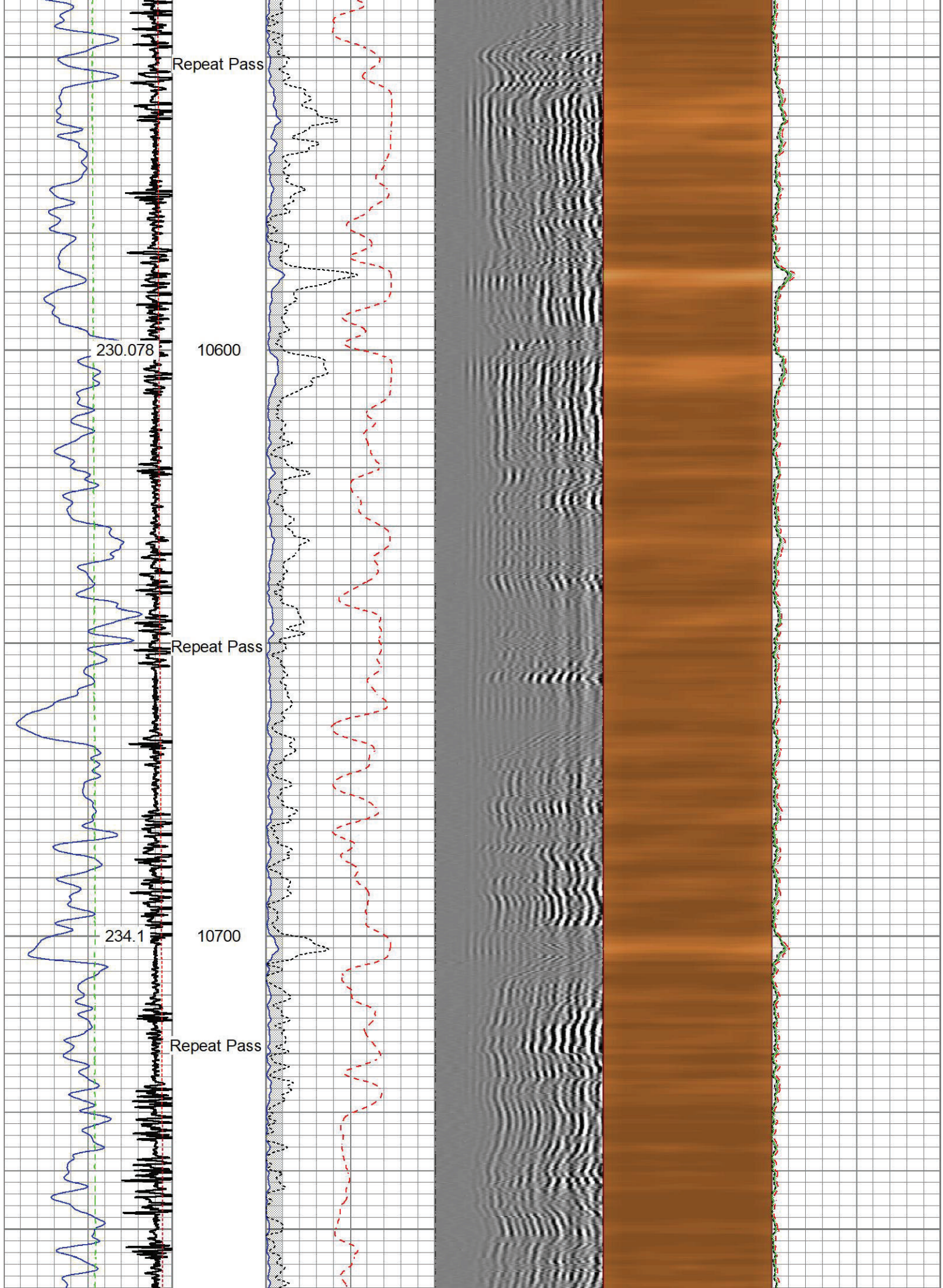


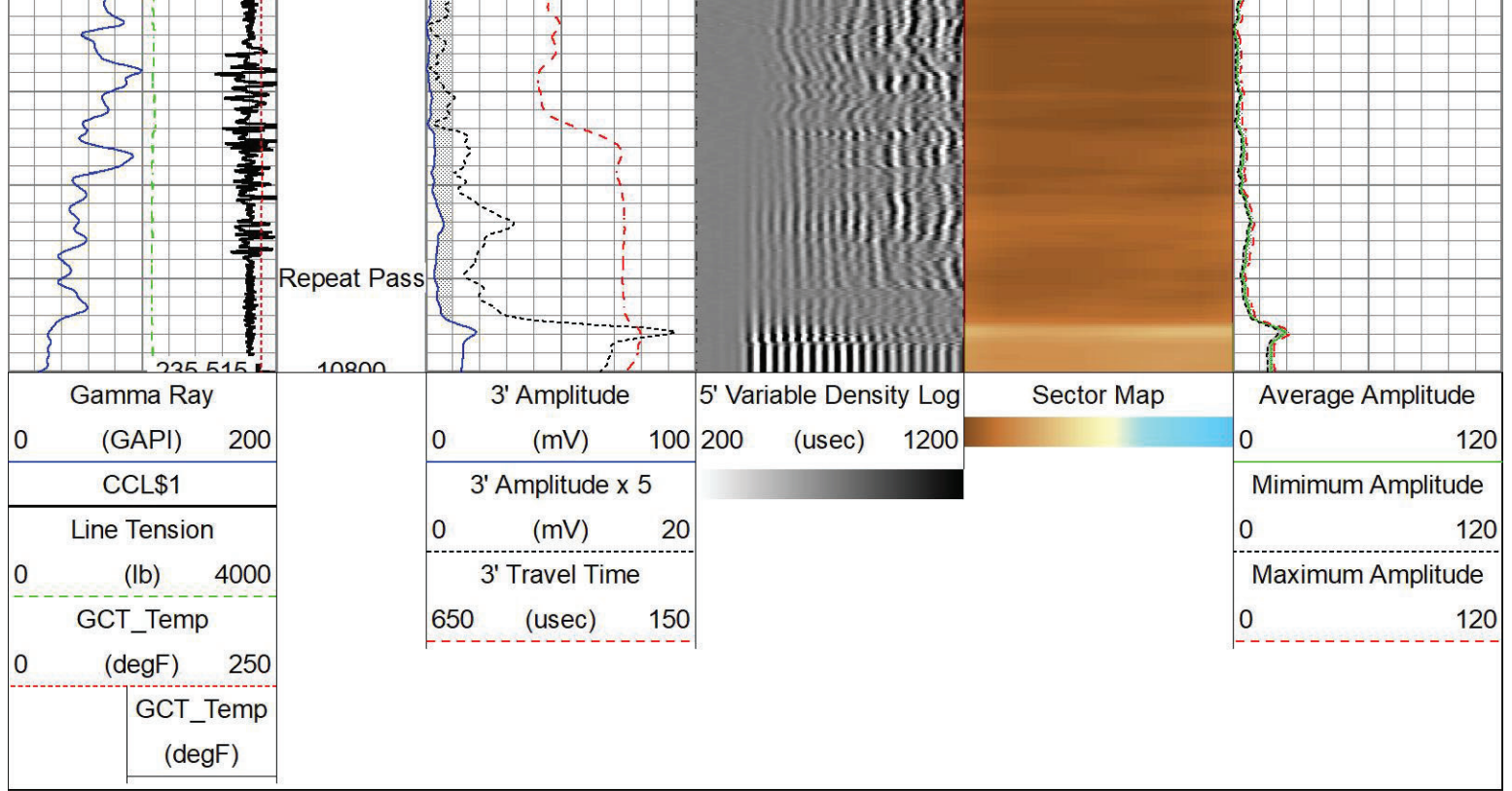


Repeat Pass 5" = 100'

Database File: tep_nr 43-4_rcbl_6-10-22.db
 Dataset Pathname: repeat.1
 Presentation Format: twgrcbl
 Dataset Creation: Fri Jun 10 12:12:20 2022
 Charted by: Depth in Feet scaled 1:240







Calibration Report

Database File tep_nr 43-4_rcbl_6-10-22.db
Dataset Pathname main
Dataset Creation Fri Jun 10 09:25:38 2022

Gamma Ray Calibration Report

Serial Number: FW1304-53
Tool Model: GCT275-0000
Performed: Tue Jun 7 16:23:39 2022

Calibrator Value: 205.0 GAPI

Background Reading: 63.3 cps
Calibrator Reading: 244.0 cps

Sensitivity: 0.9131 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1311-19
Tool Model: Probe275acc

Calibration Casing Diameter: 4.500 in
Calibration Depth: 32.000 ft

Master Calibration, performed Fri Jun 10 08:38:30 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.722	0.000	81.196	112.655	-0.180
CAL	0.002	0.747				
5'	0.001	0.680	0.000	81.196	119.665	-0.167
SUM						
S1	0.017	0.759	0.000	100.000	134.808	-2.279
S2	0.003	0.744	0.000	100.000	135.019	-0.420
S3	0.002	0.743	0.000	100.000	134.999	-0.241

S4	0.001	0.727	0.000	100.000	137.875	-0.205
S5	0.002	0.712	0.000	100.000	140.858	-0.270
S6	0.001	0.712	0.000	100.000	140.667	-0.184
S7	0.002	0.723	0.000	100.000	138.577	-0.220
S8	0.001	0.721	0.000	100.000	138.836	-0.163

Internal Reference Calibration, performed (Not Performed):

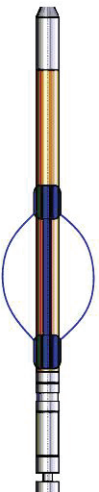
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.002	0.747	1.000	0.000

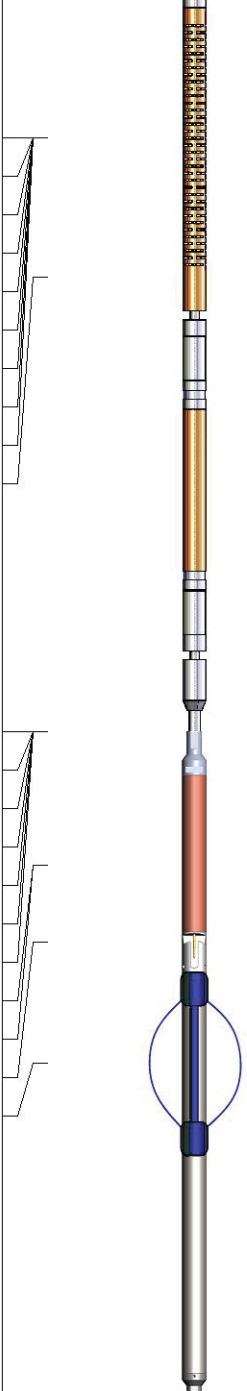
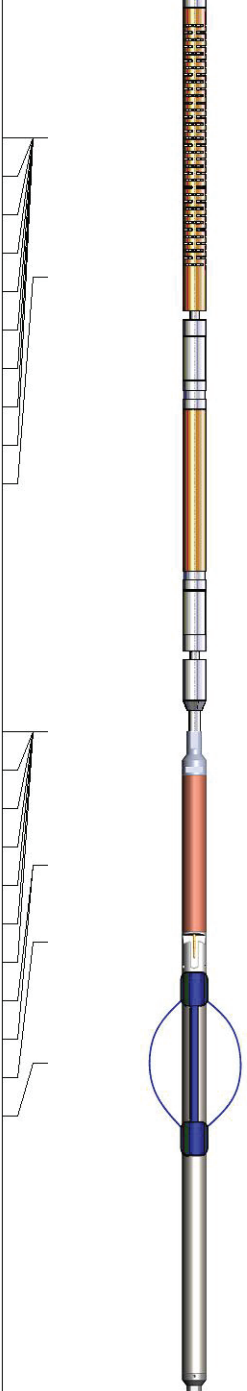
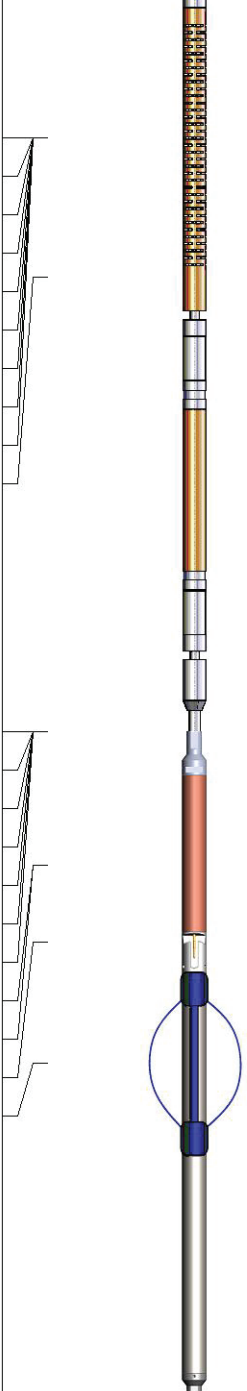
Air Zero Calibration, performed Fri Jun 10 08:38:49 2022:

	Raw (v)		Calibrated (v)		Results
	Zero		Zero		Offset
3'	0.002		0.000		-0.000
5'	0.001		0.000		0.000
SUM					
S1	0.018		0.000		-0.001
S2	0.004		0.000		-0.001
S3	0.002		0.000		0.000
S4	0.002		0.000		-0.000
S5	0.002		0.000		0.000
S6	0.002		0.000		-0.001
S7	0.002		0.000		-0.000
S8	0.002		0.000		-0.001

Inclinometer Calibration Report

Performed:	(Not Performed)				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			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

WVFS8	9.02		RBT8acc-Probe275acc (FW1311-19) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
WVFS7	9.02					
WVFS6	9.02					
WVFS5	9.02					
WVFS4	9.02					
WVFS3	9.02					
WVFS2	9.02					
WVFS1	9.02					
WVF3FT	9.02					
WVF5FT	8.02					
RBT_HV	4.77					
RBT_ACCZ	4.77					
RBT_ACCY	4.77					
RBT_ACCX	4.77					
GCT_HV	4.77					
WVFSYNC	4.77					
WVFCAL	4.77					
CCL\$2	3.81					
CCL\$1	3.81					
GCT_Temp	3.26		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
GR	2.39		GC-GCT275-0000 (FW1304-53) Probe 2.75" Gamma Ray - CCL w/ Temp	4.77	2.75	55.00
Dataset: tep_nr 43-4_rcbl_6-10-22.db: field/well/run1/main						
Total length: 13.52 ft						
Total weight: 185.00 lb						
O.D.: 3.25 in						



Company Terra Energy Partners, LLC
 Well Federal NR 43-4
 Field Rulison
 County Garfield
 State Colorado

Country USA