



**Radial Cement Bond
Gamma Ray
Casing Collar Log**

Company Laramie Energy LLC
Well Laramie Federal 0993-21-16W
Field Buzzard Creek
County Mesa
State Colorado

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Well Laramie Federal 0993-21-16W
Field Buzzard Creek
County Mesa State Colorado

Location: API #: 05-077-10649
SEC 29 TWP 9S RGE 93W
Permanent Datum Ground Level Elevation 7394'
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing 30'
Other Services
CNL
Elevation
K.B. 7424'
D.F. 7394'
G.L. 7394'

Date	03-OCT-2025		
Run Number	One		
Depth Driller	8280'		
Depth Logger	8210'		
Bottom Logged Interval	8198'		
Top Log Interval	Surface		
Open Hole Size	8.75"		
Type Fluid	Water		
Density / Viscosity	8.34 Lb/Gal		
Max. Recorded Temp.	250°F		
Estimated Cement Top	See Log		
Time Well Ready	ROA		
Time Logger on Bottom	17:30		
Equipment Number	8102		
Location	Grand Junction		
Recorded By	P. Edwards		
Witnessed By	J. Skalla		

Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Mgt/Ft	Top	Bottom
Surface String	8.625"	24.0	Surface	1547'
Prot. String				
Production String	4.5"	11.6	Surface	8270'
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 ran as per customer request
Depth referenced to Kelly Bushing at 30'

Marker Joints at:
6472' - 6493'
7688' - 7710'

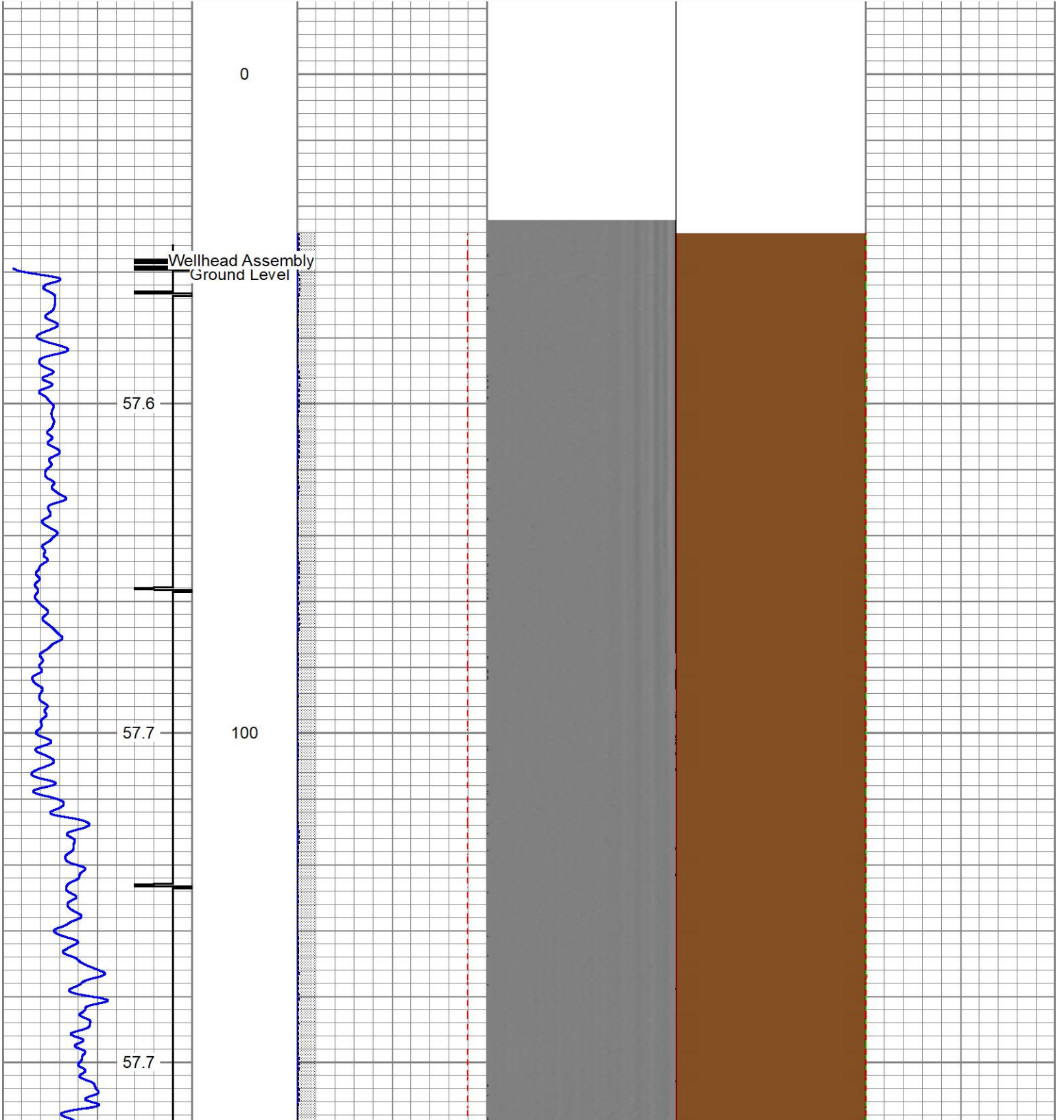
Thank you for choosing The Wireline Group!

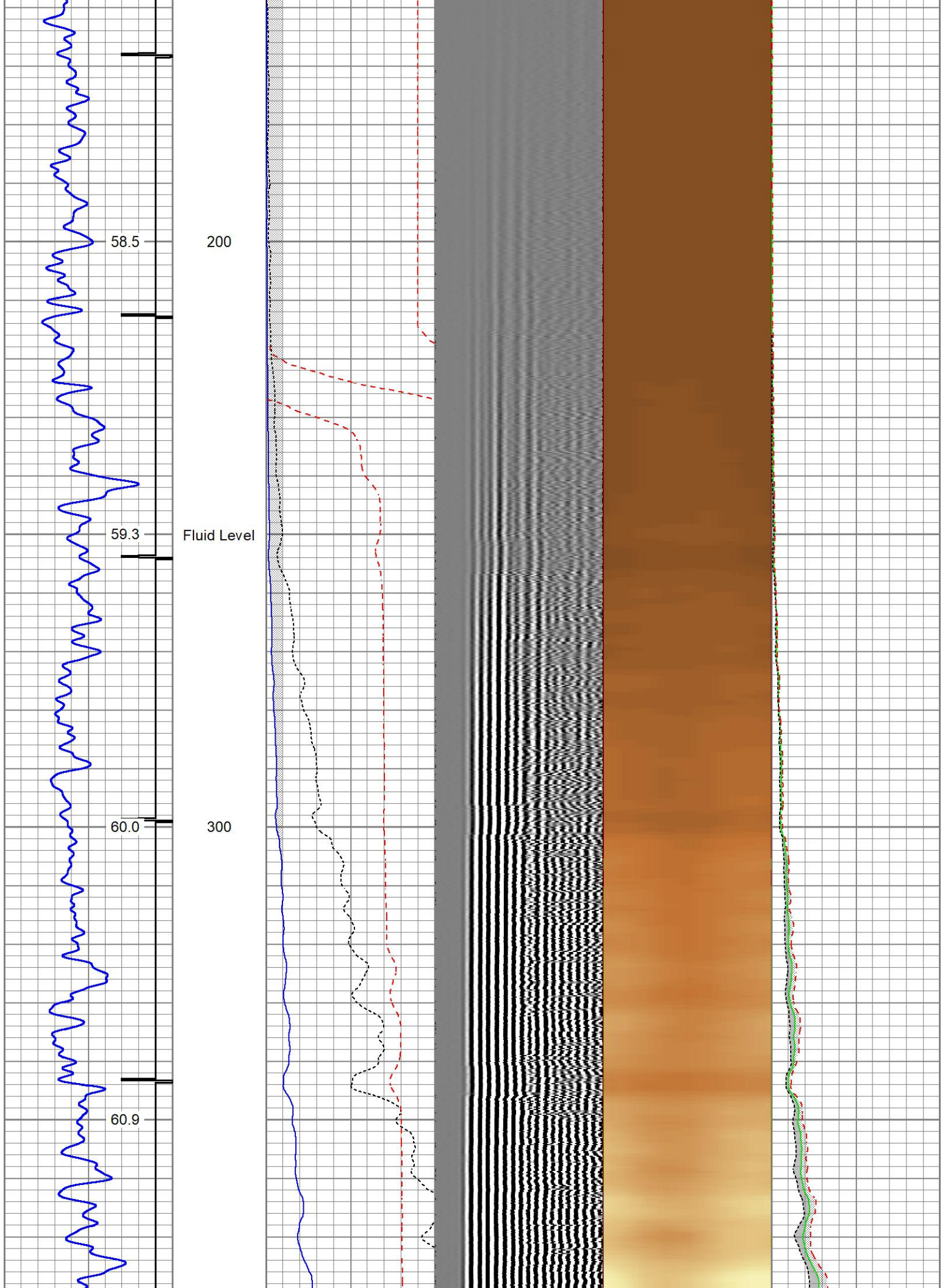


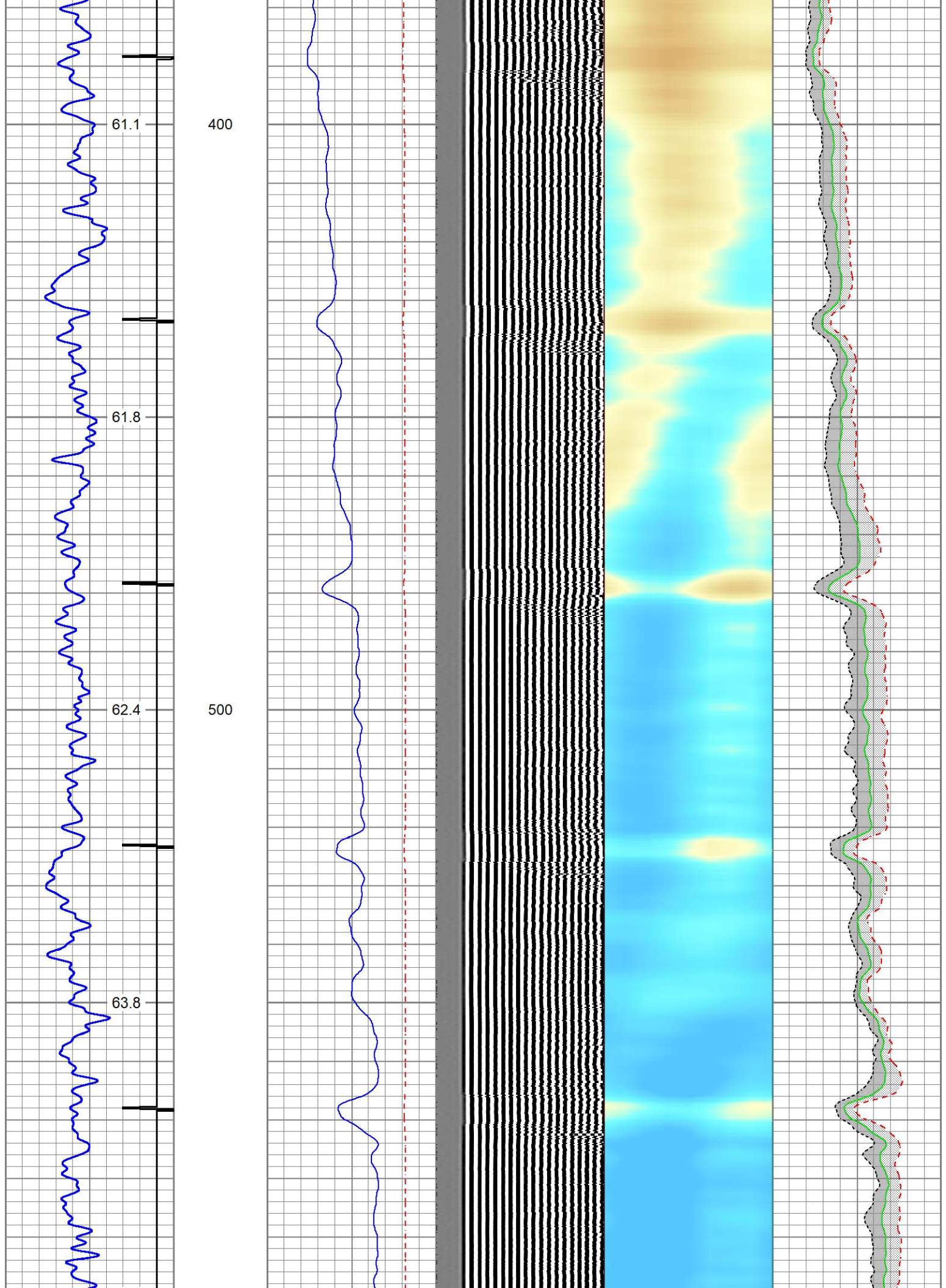
Main Pass 5" = 100' (0 PSI)

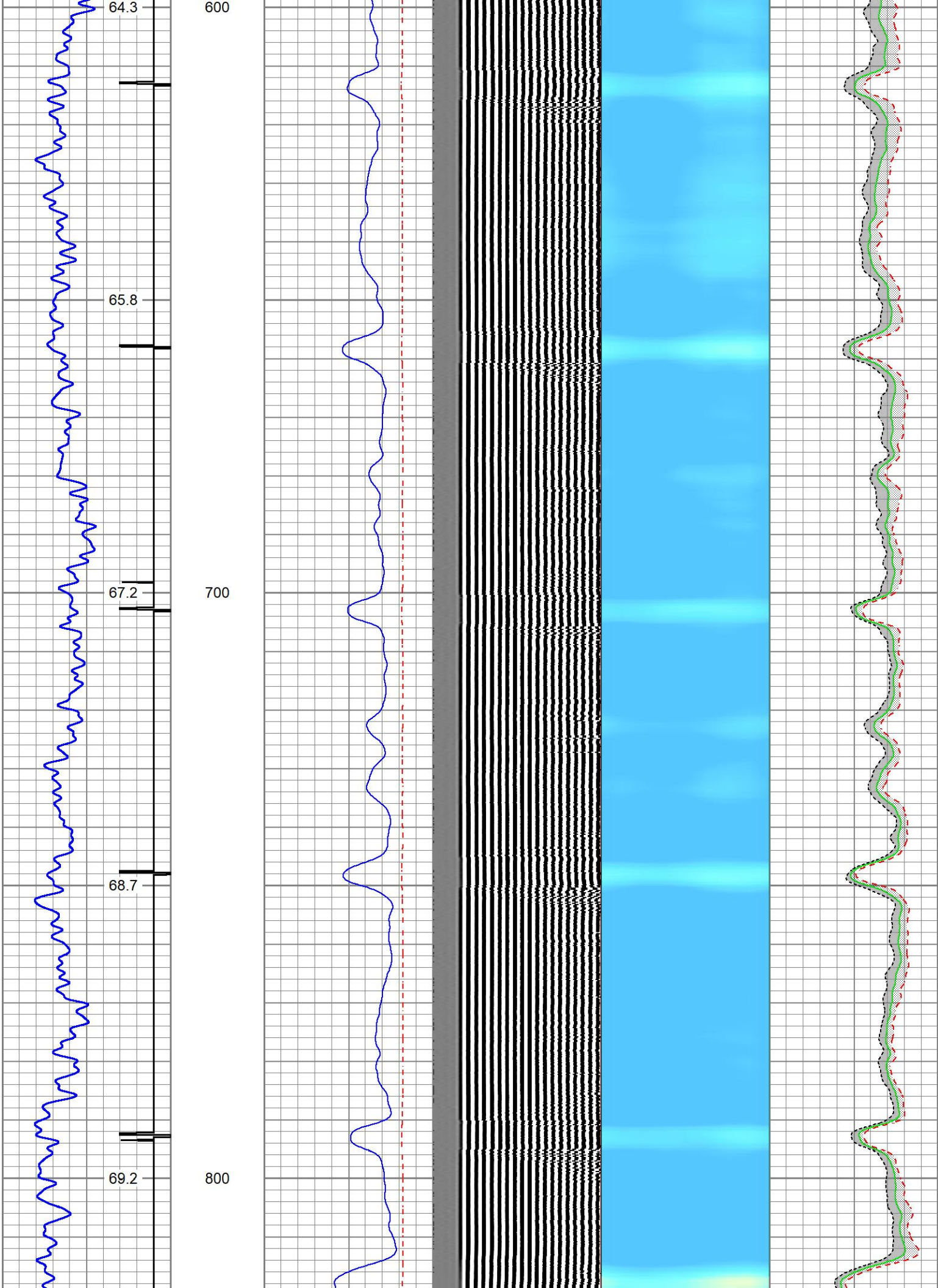
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 Dataset Pathname main
 Presentation Format twgrcbl
 Dataset Creation Fri Oct 03 19:17:32 2025
 Charted by Depth in Feet scaled 1:240

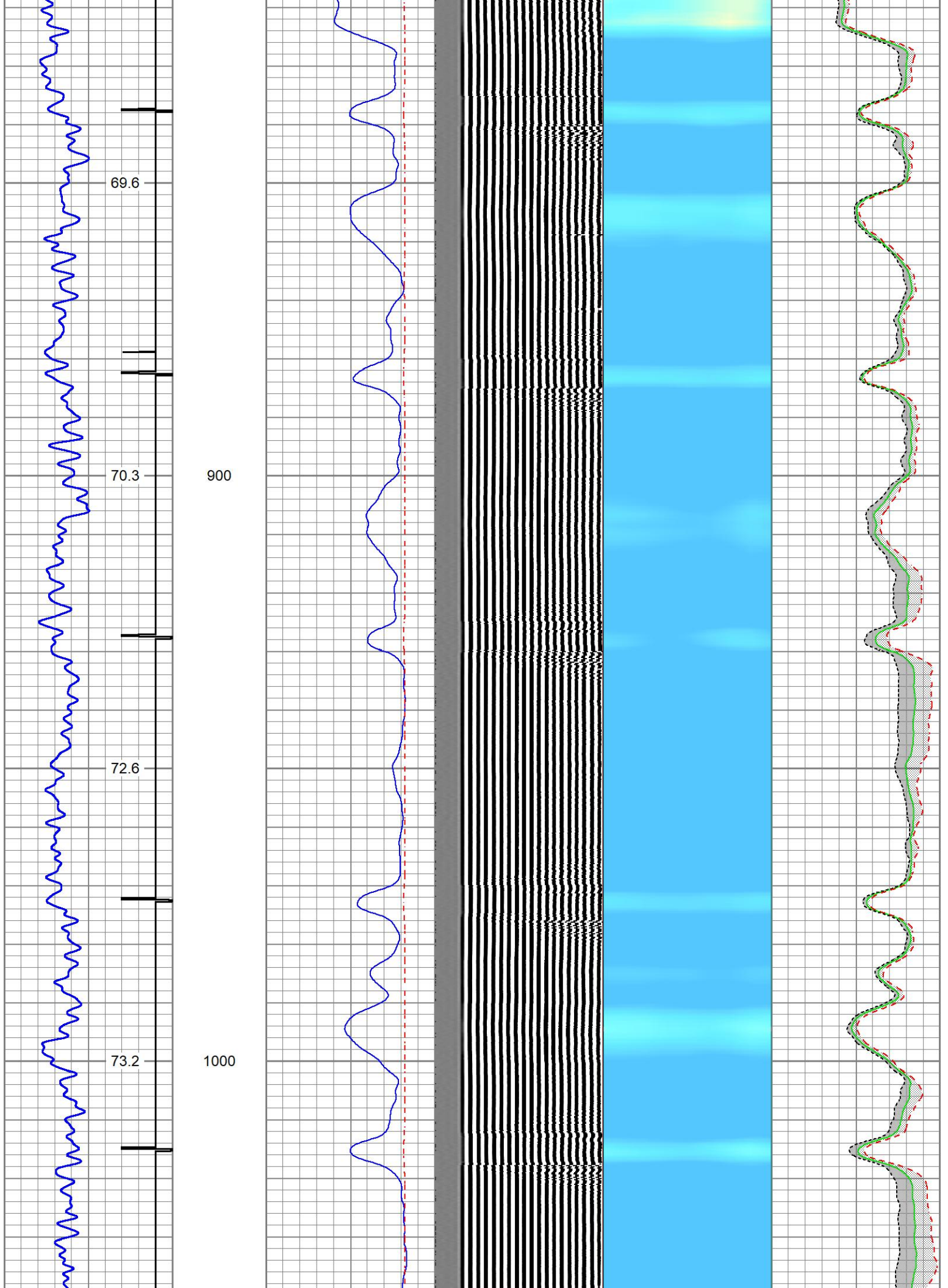
Gamma Ray		3' Amplitude		5' Variable Density Log		Sector Map		Average Amplitude	
0	(GAPI) 150	0	(mV) 100	200	(usec) 1200			0	120
-9 CCL 1		3' Amplitude x 5						Minimum Amplitude	
		0	(mV) 20					0	120
		3' Travel Time						Maximum Amplitude	
		650	(usec) 150					0	120

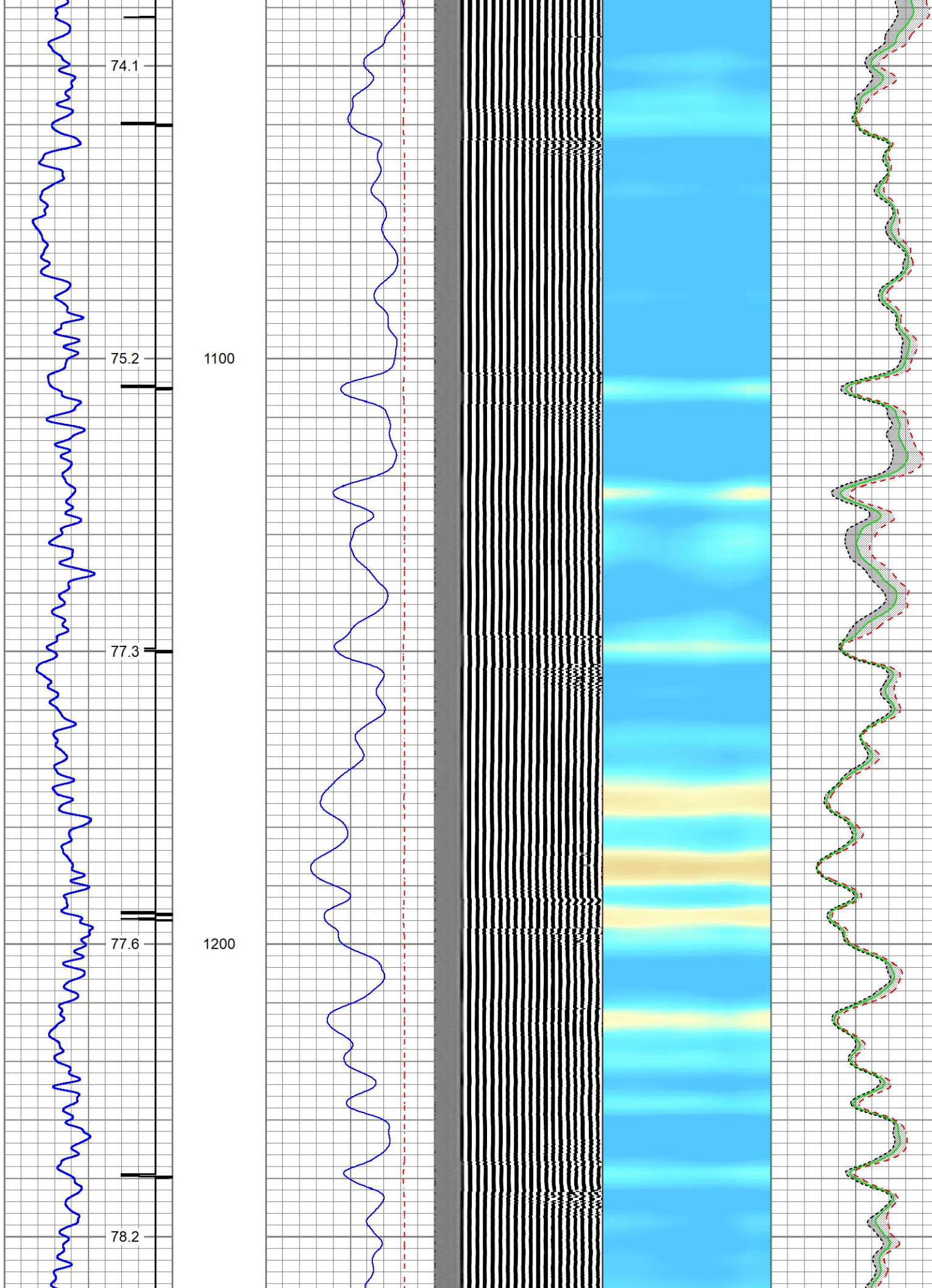


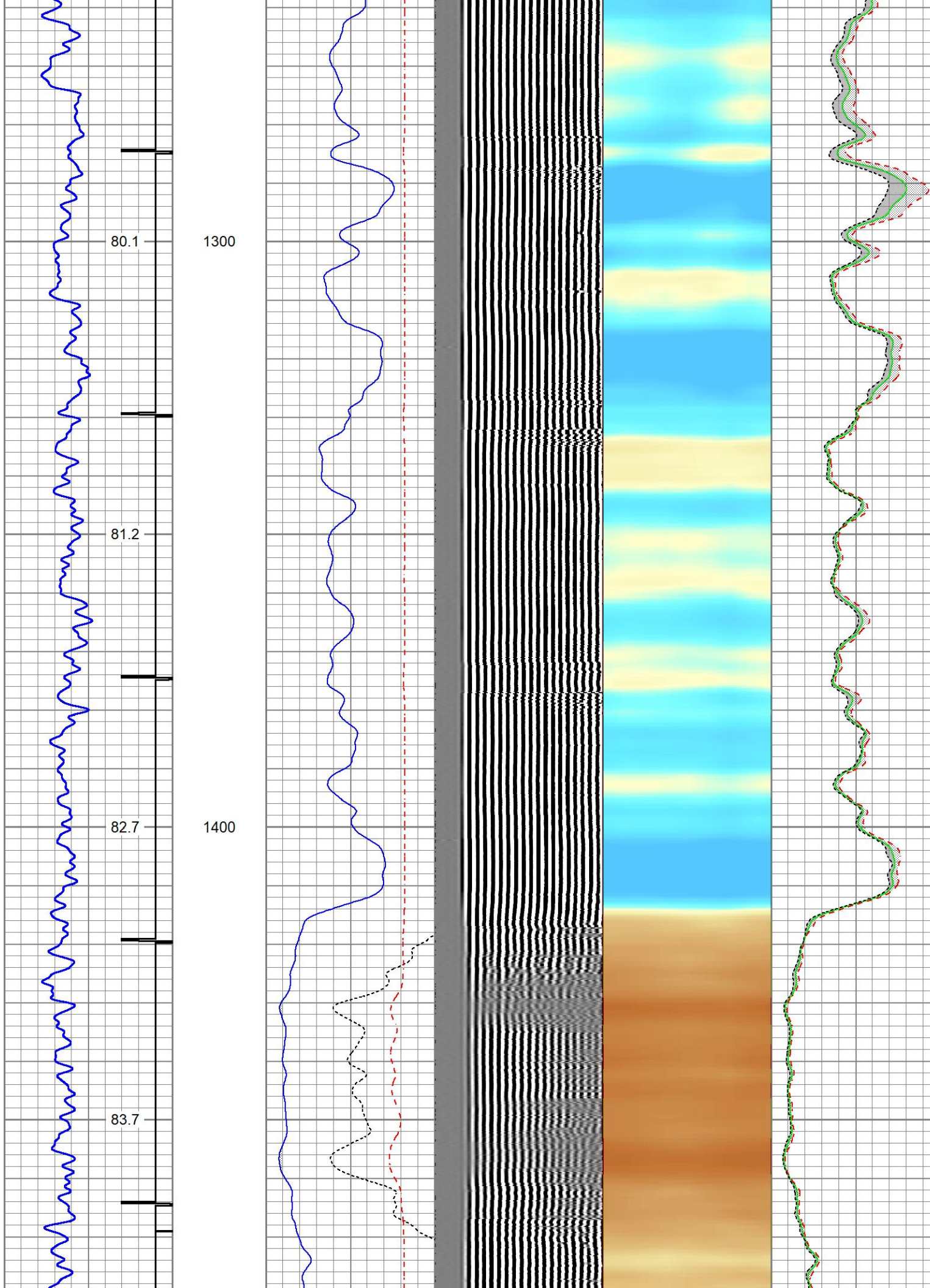


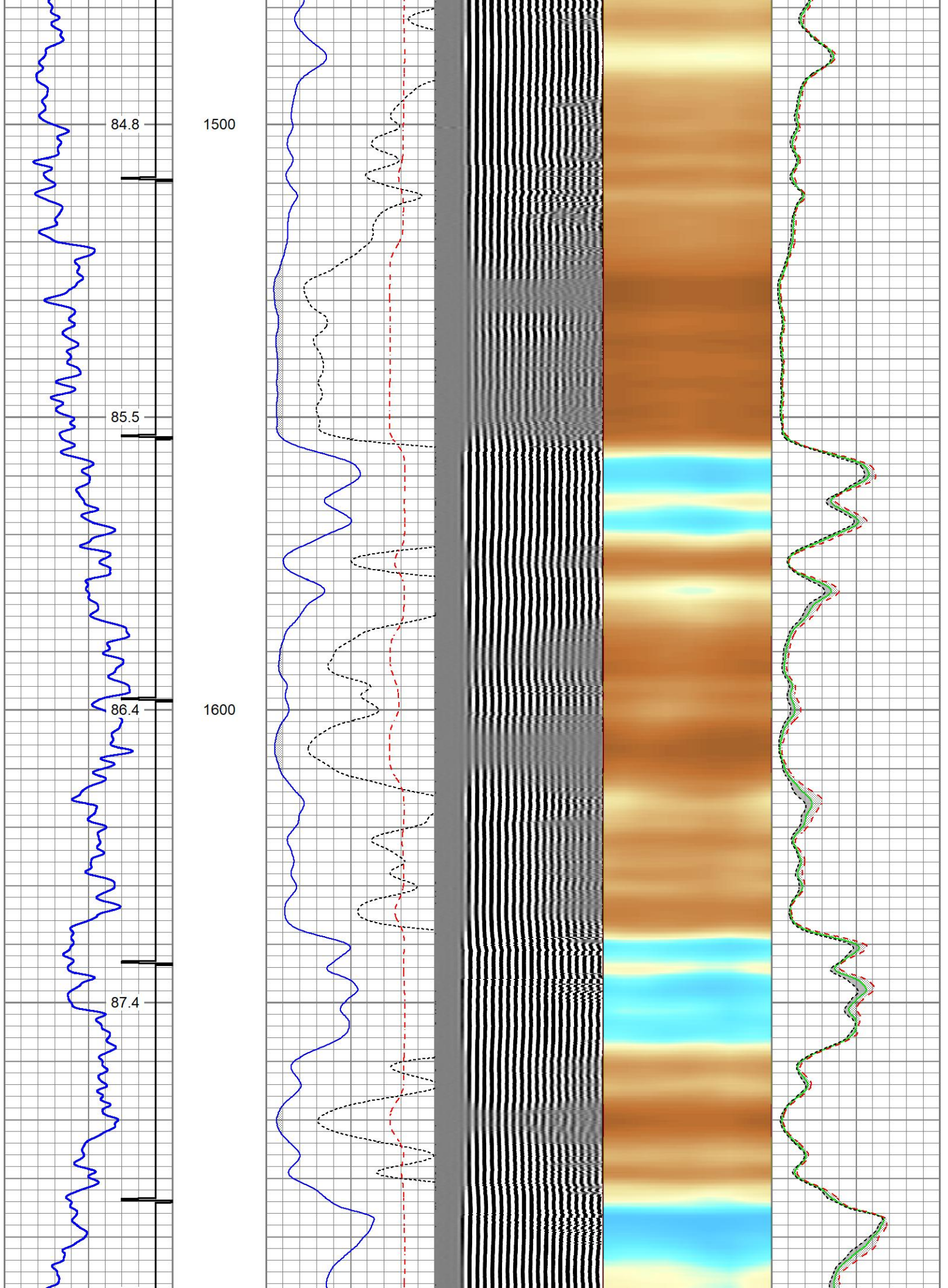


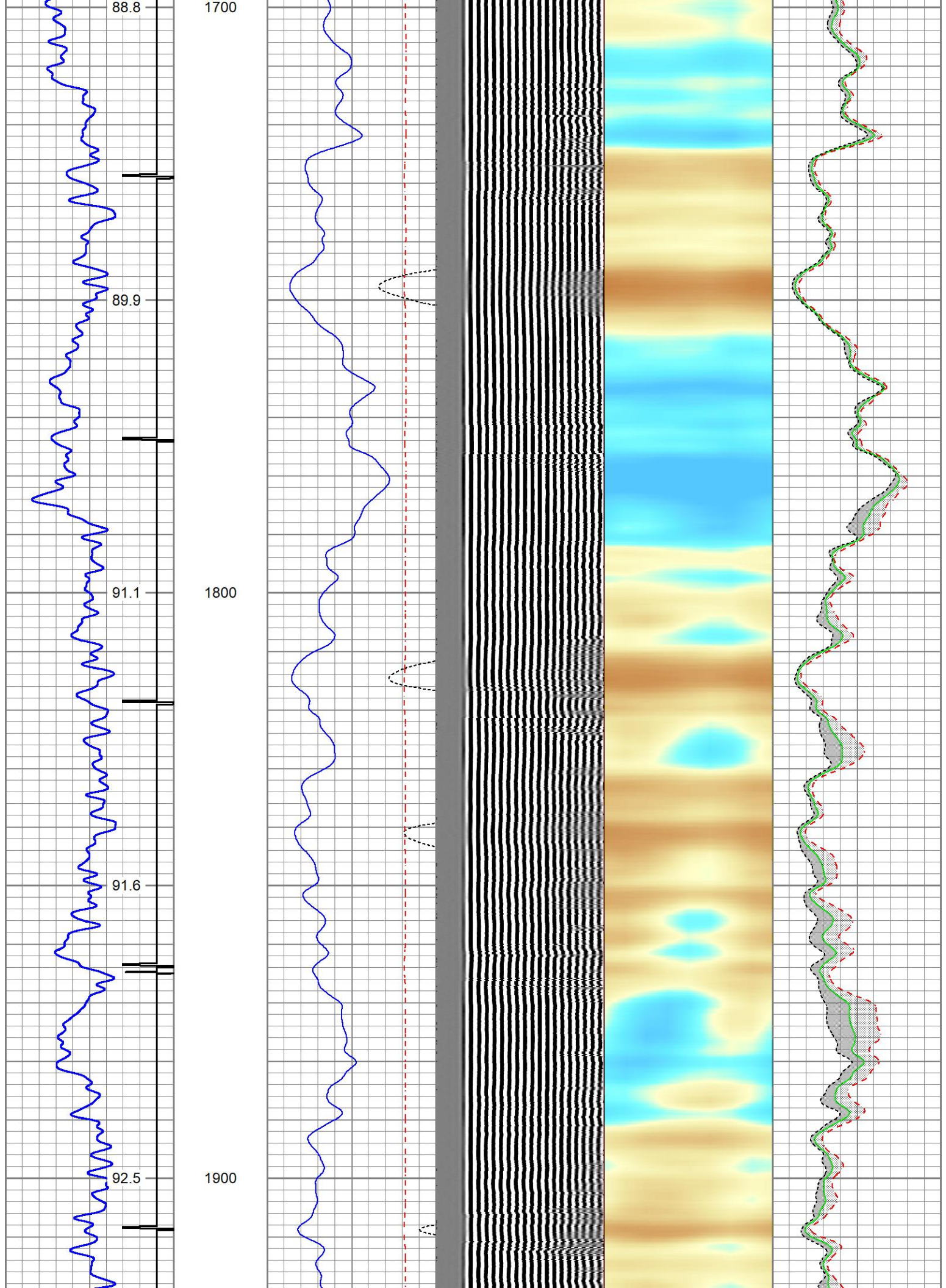


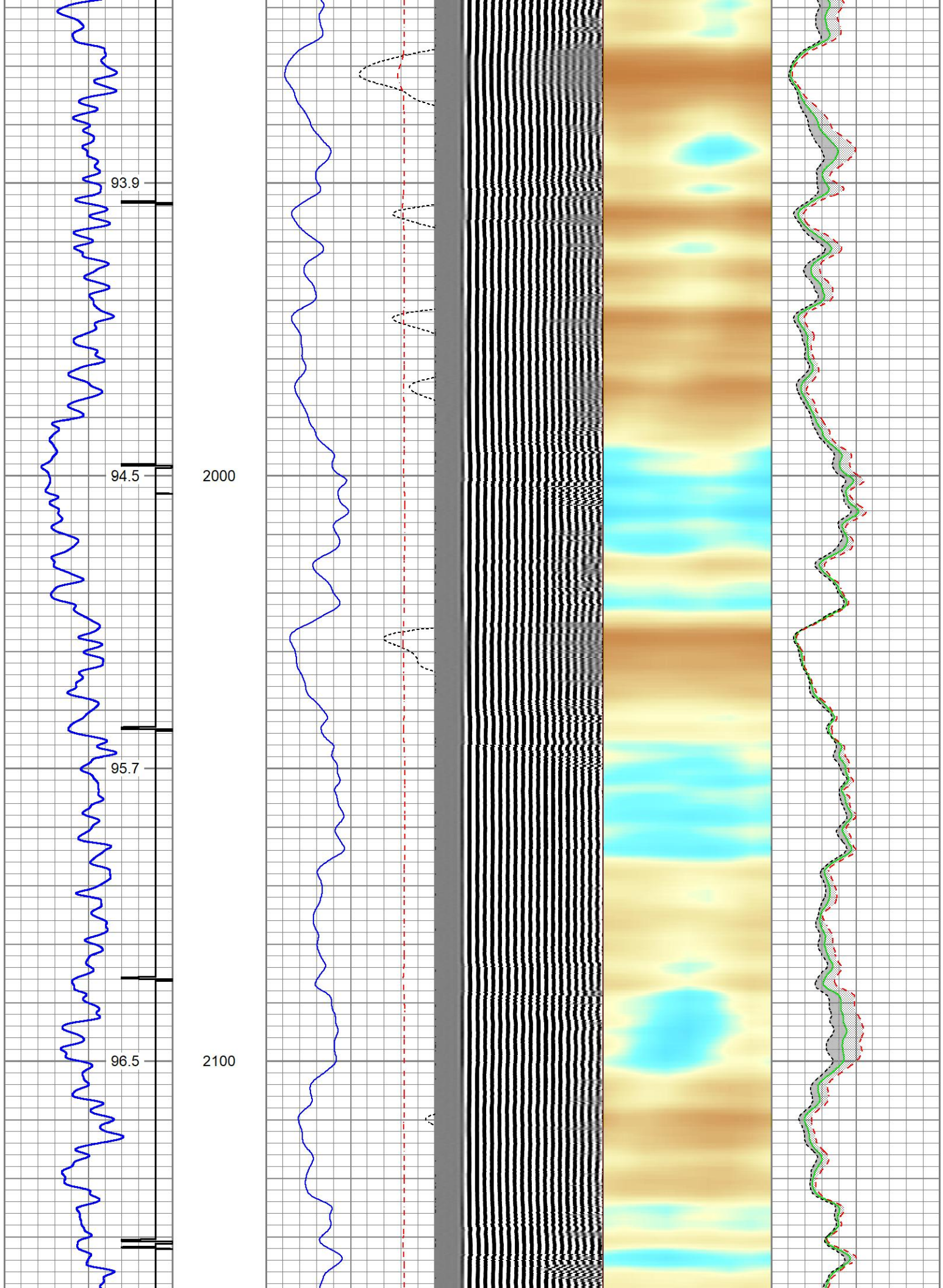


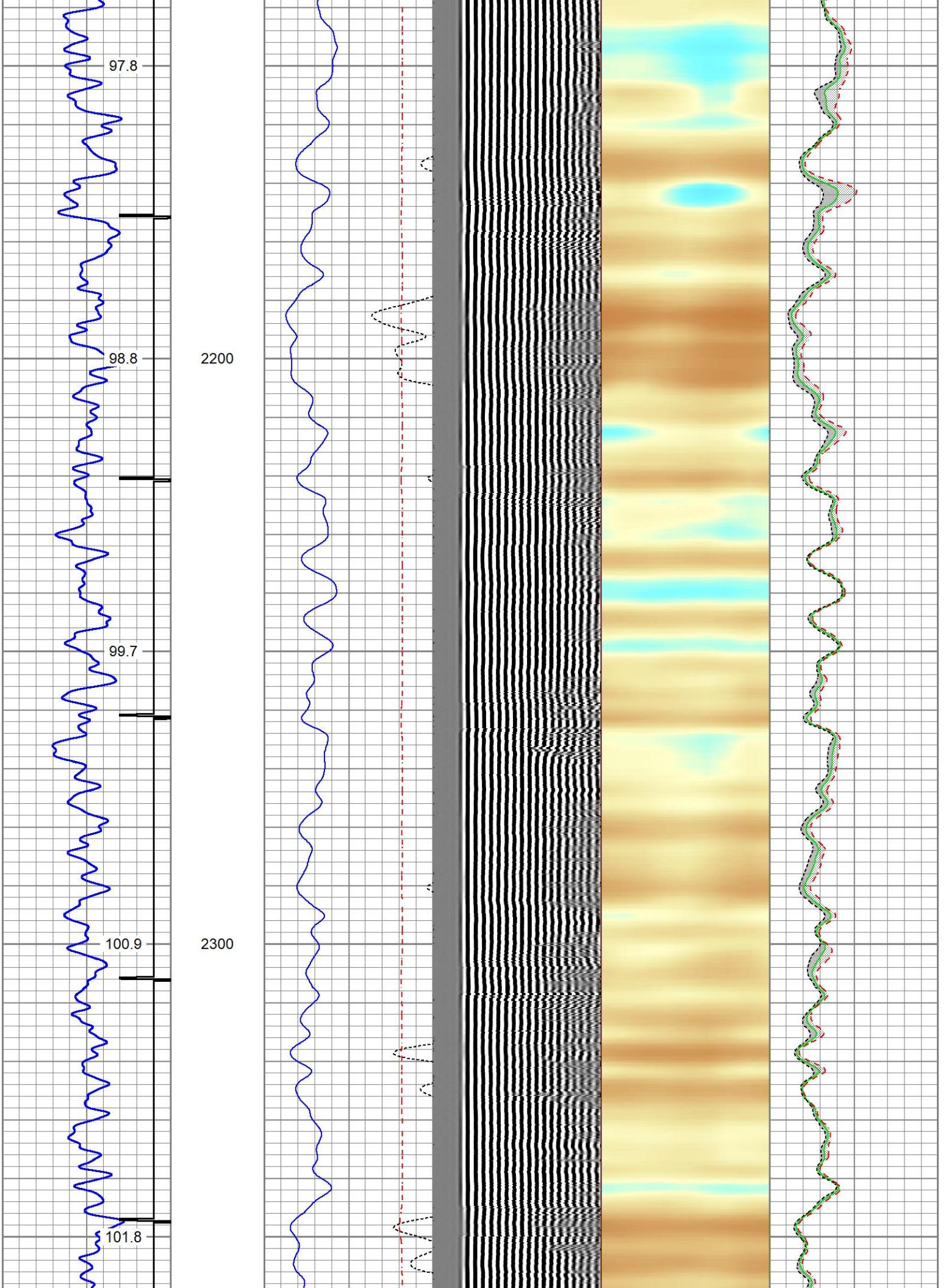


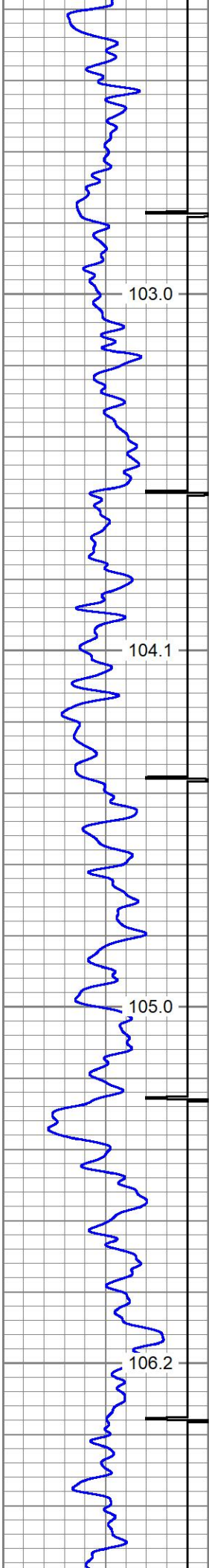






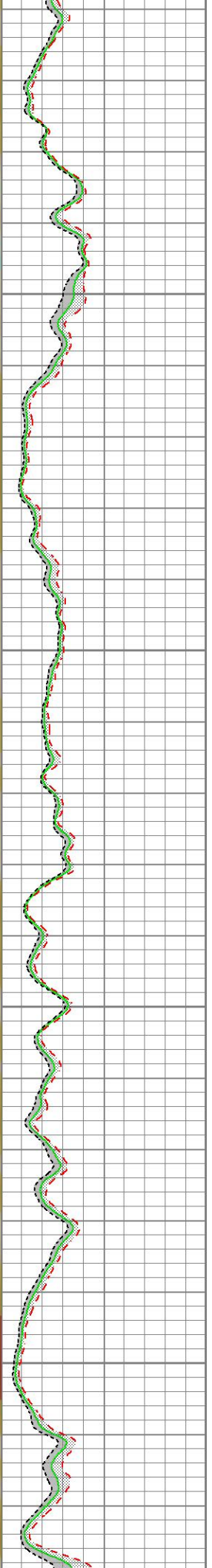
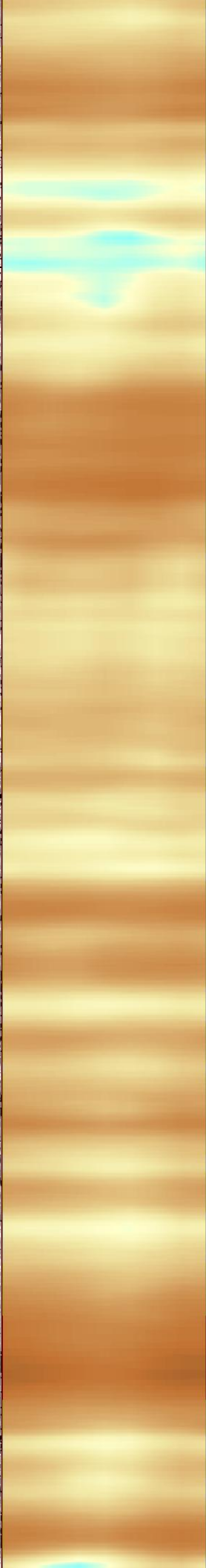
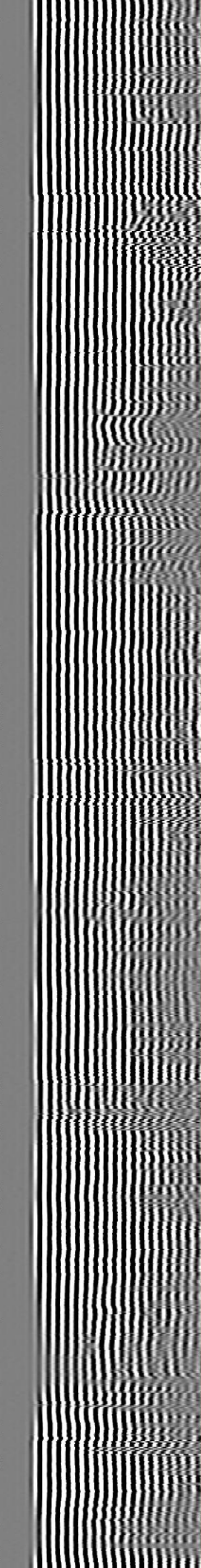
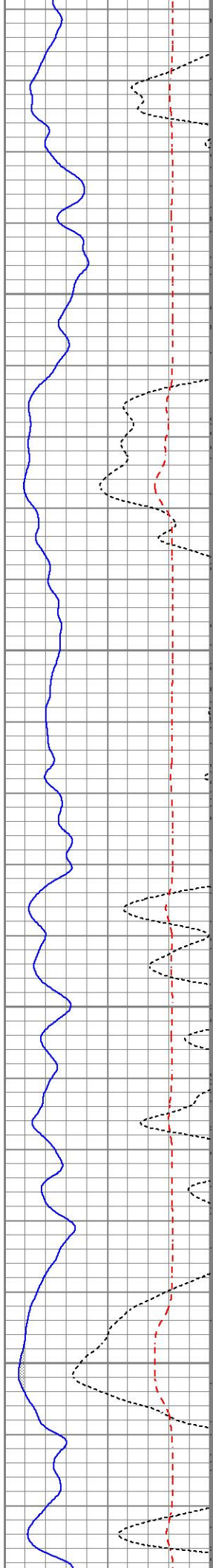


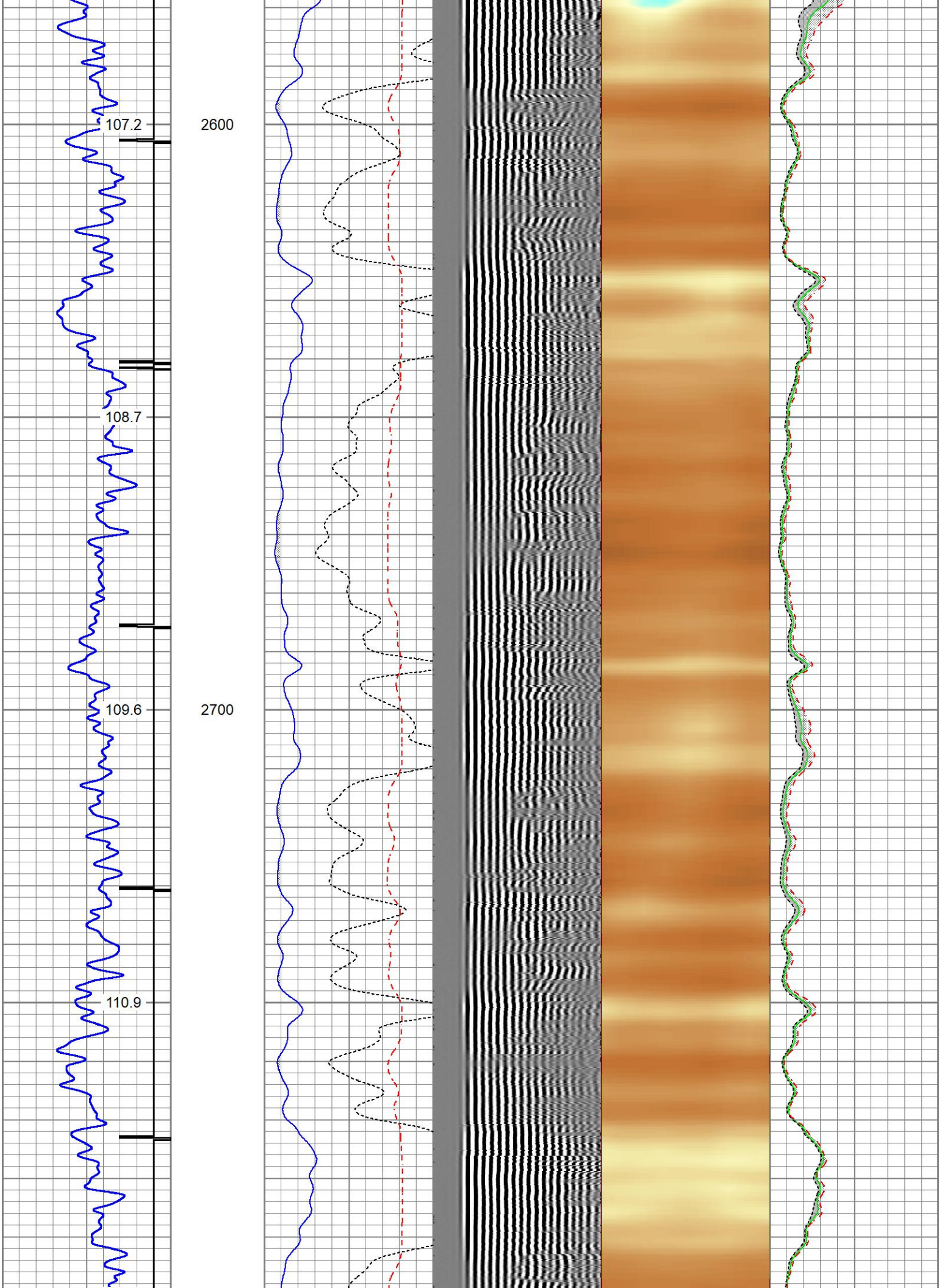


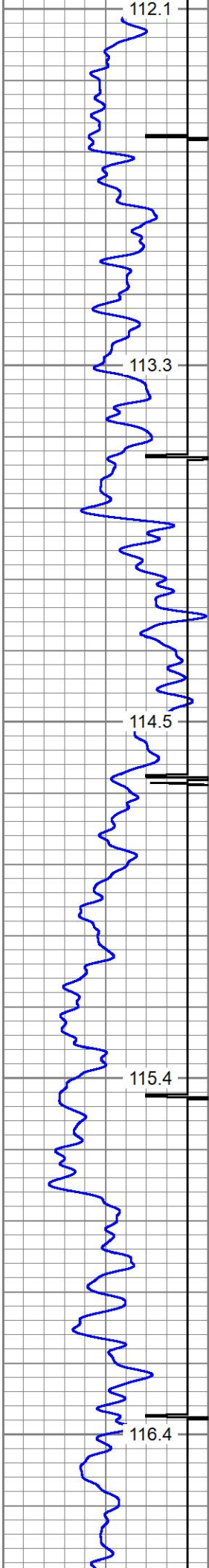


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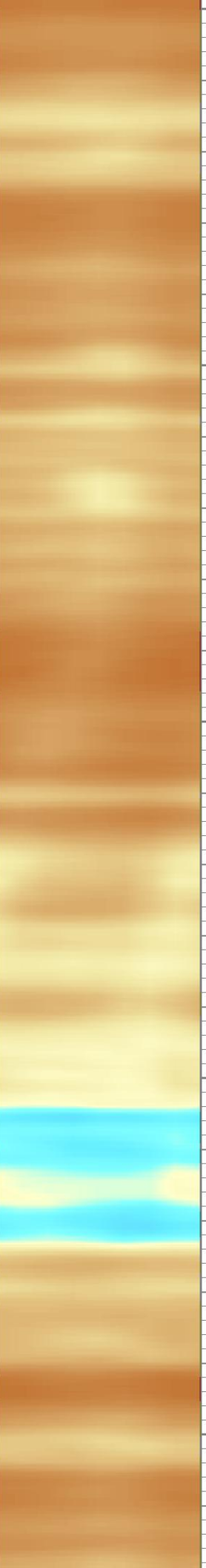
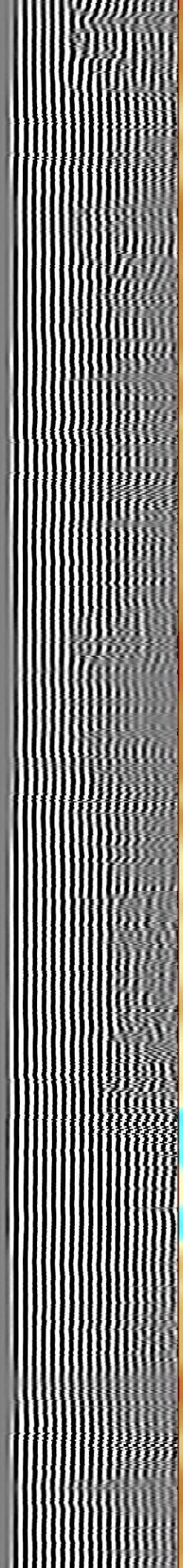
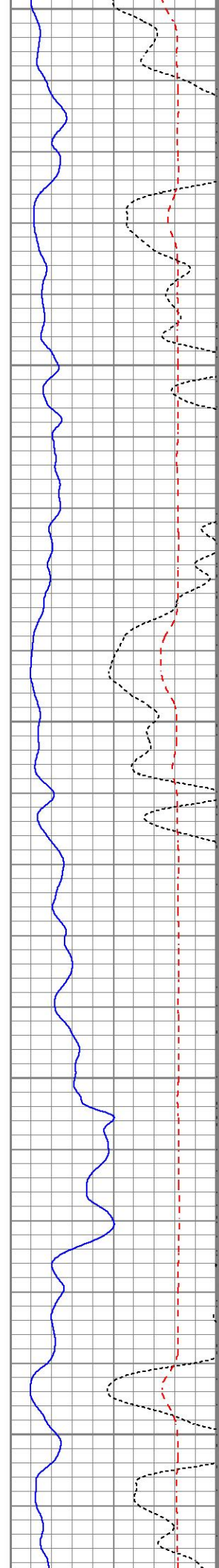
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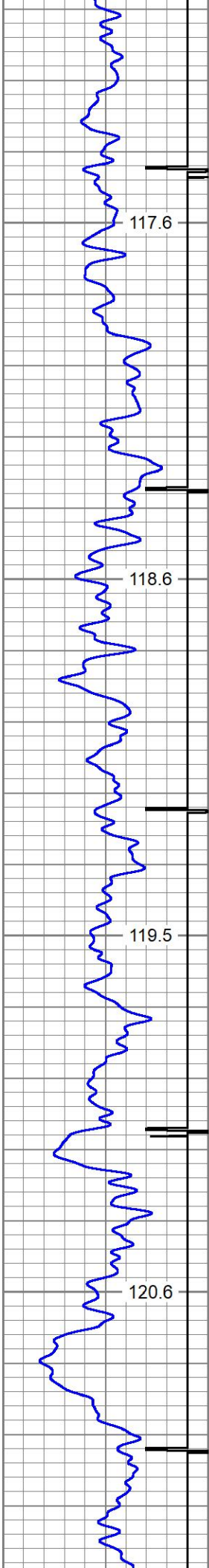






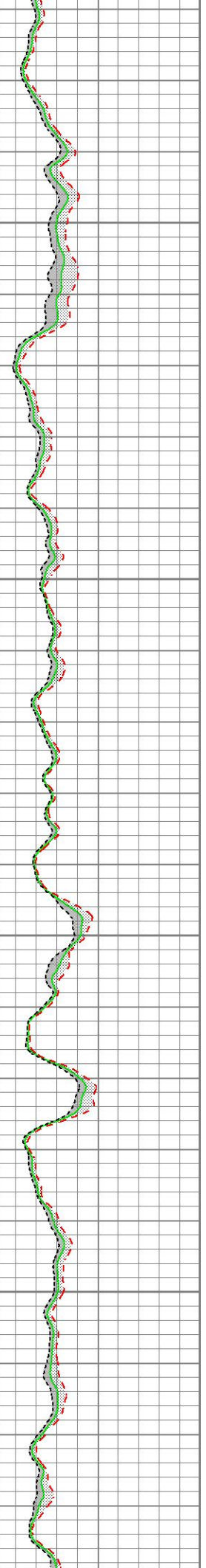
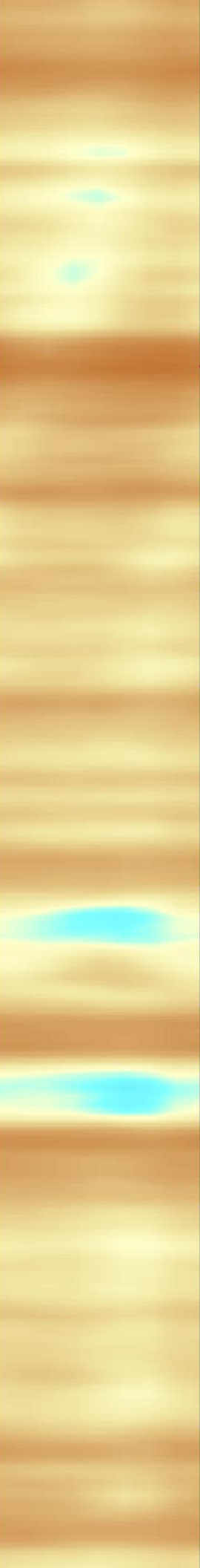
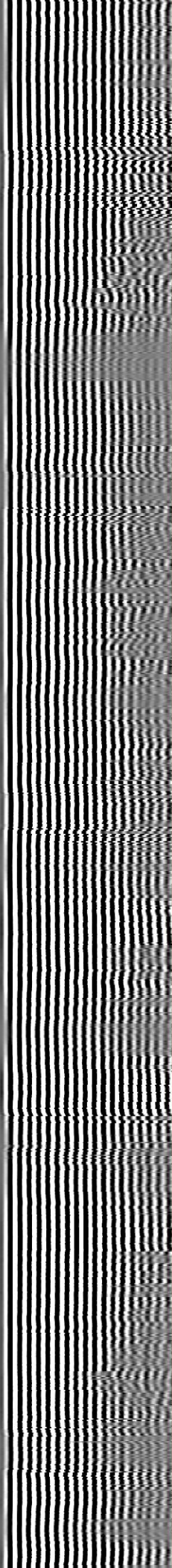
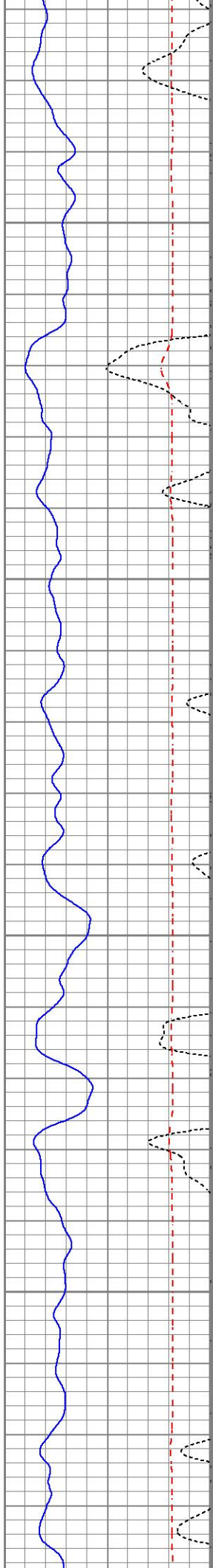
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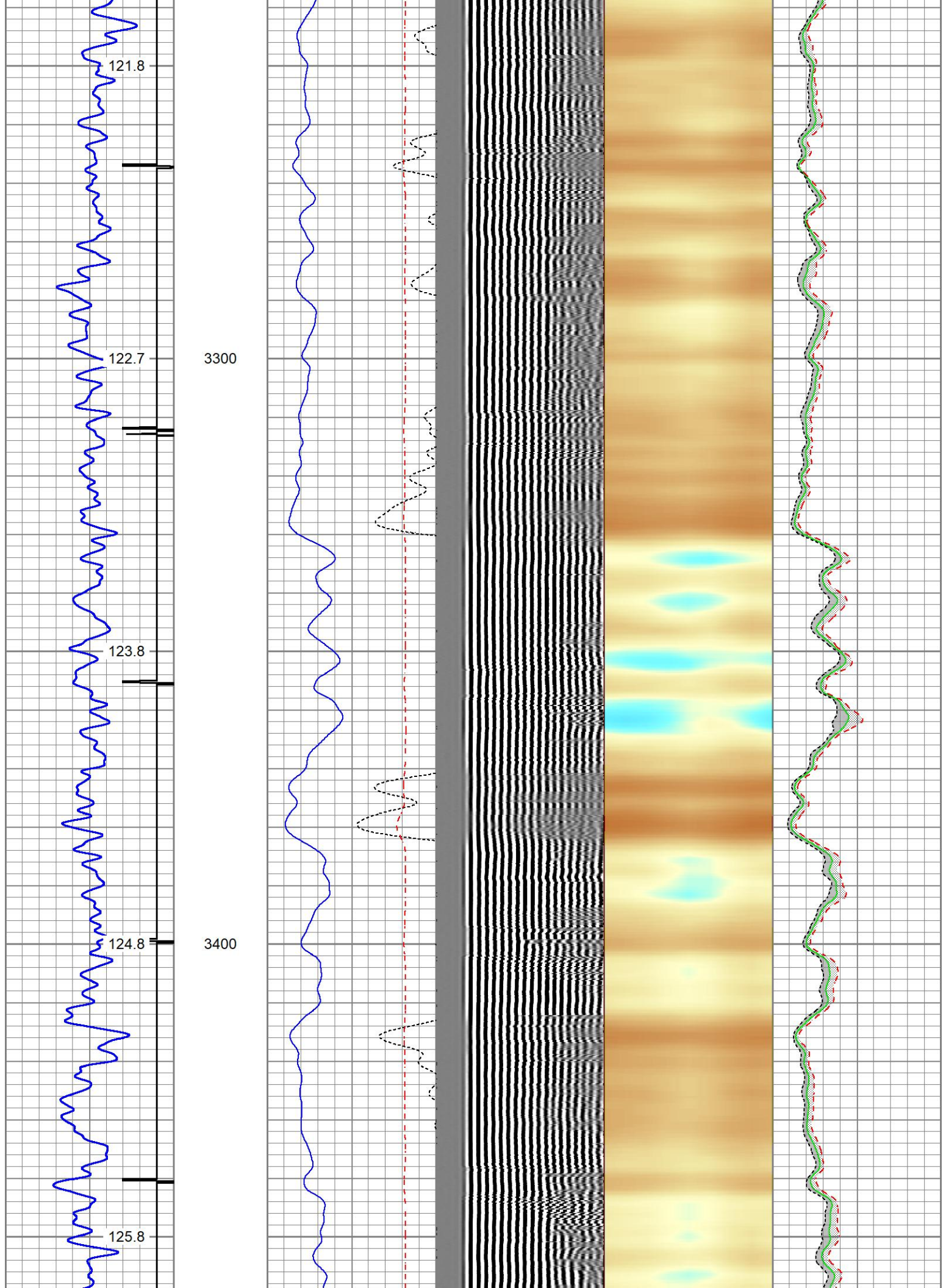


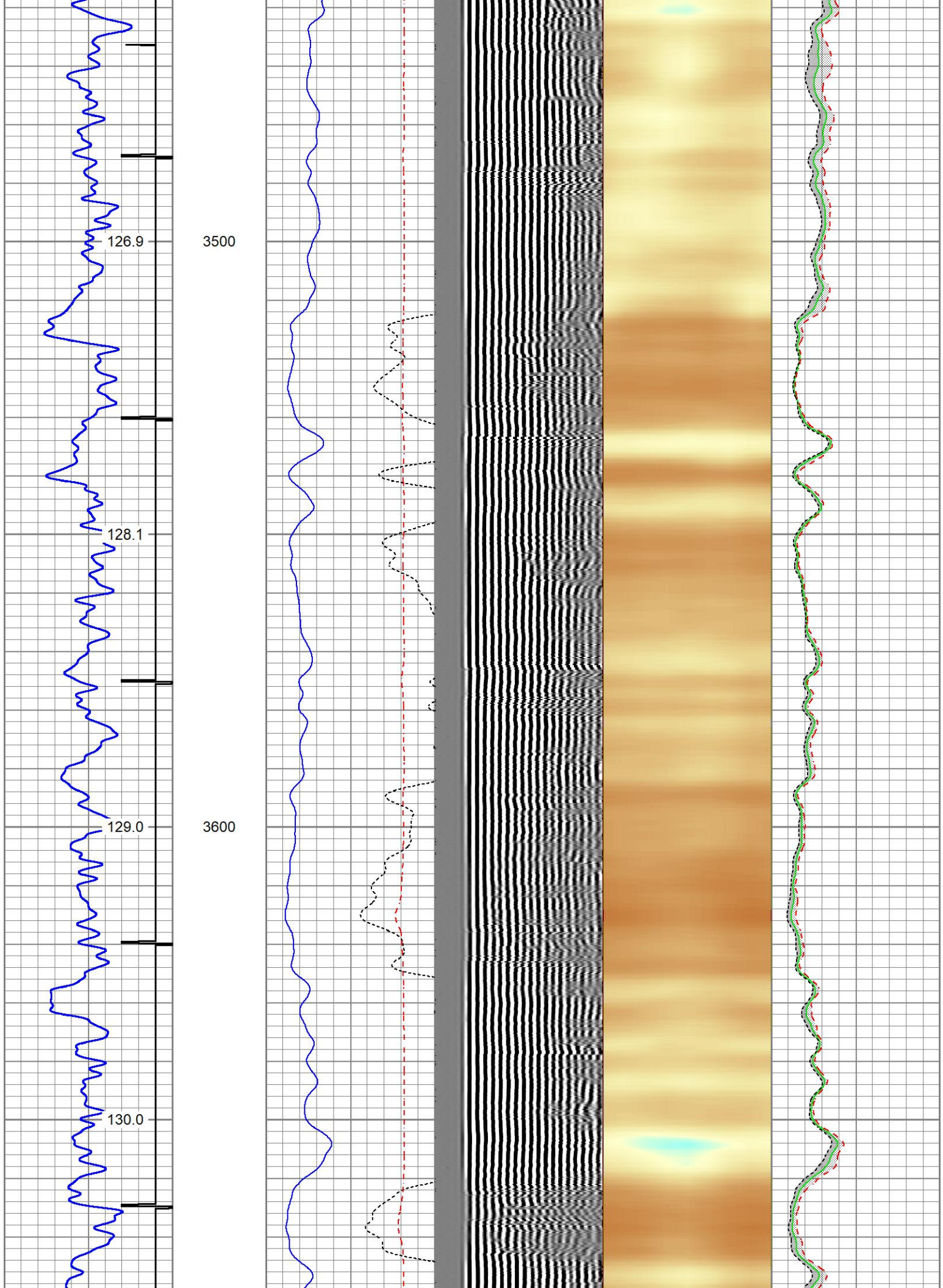


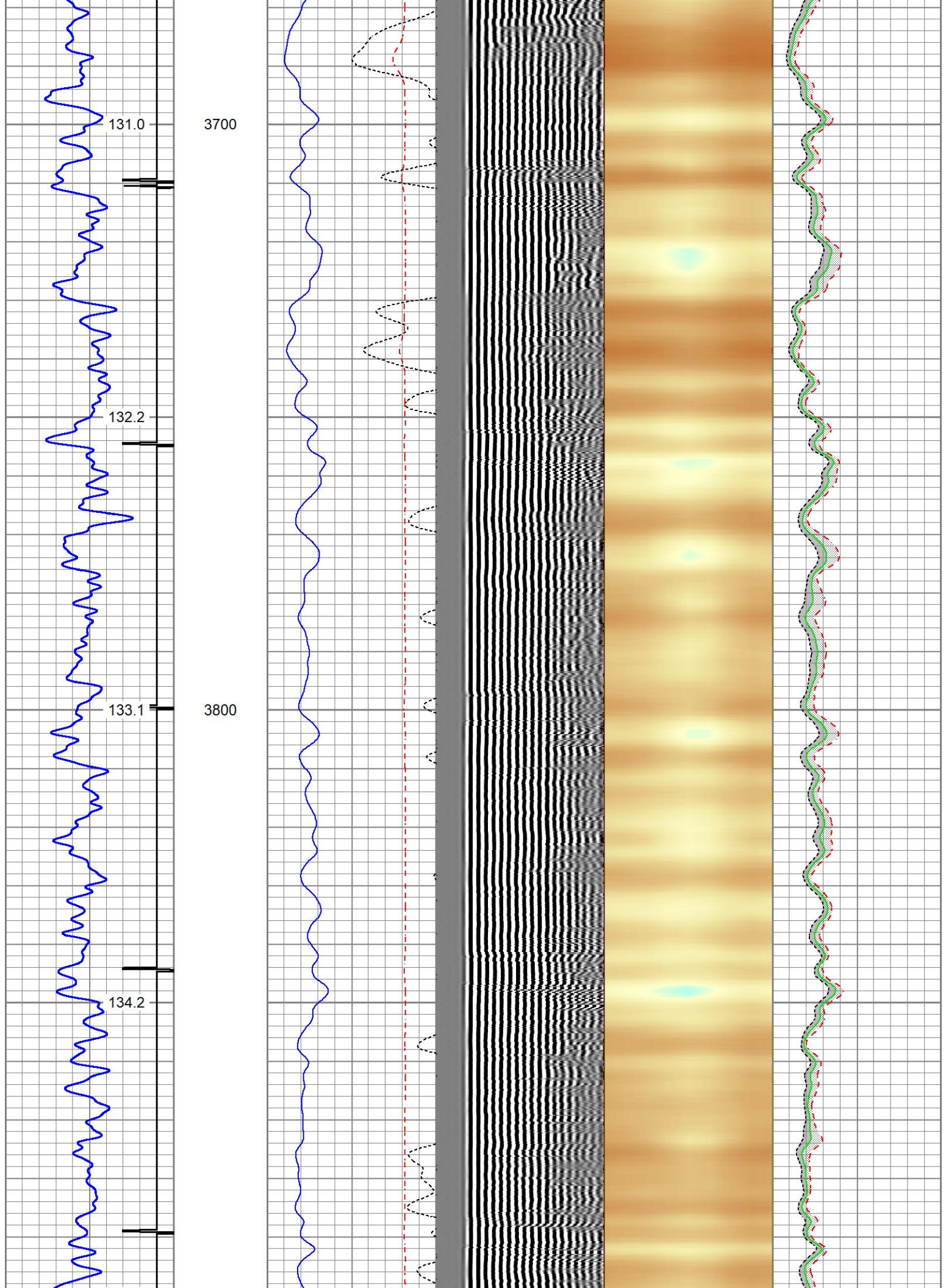
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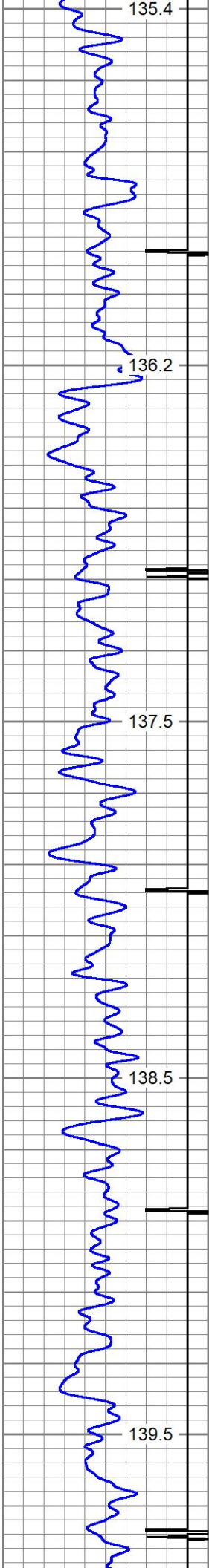
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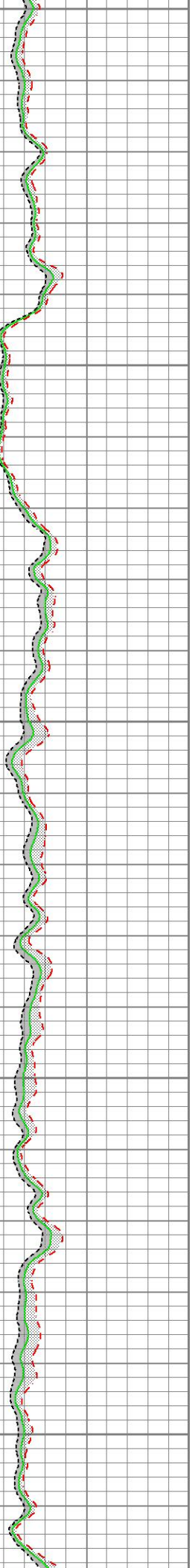
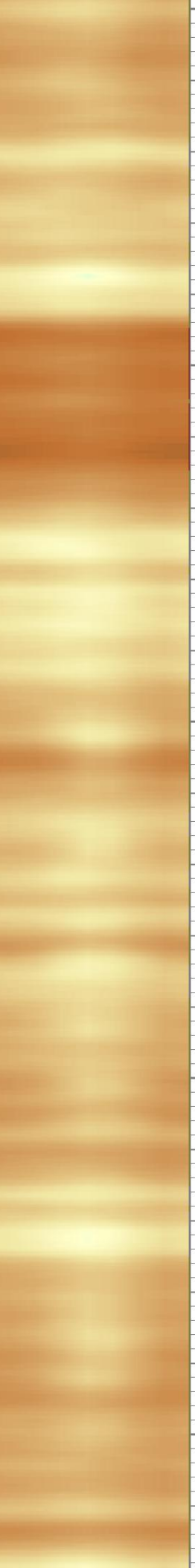
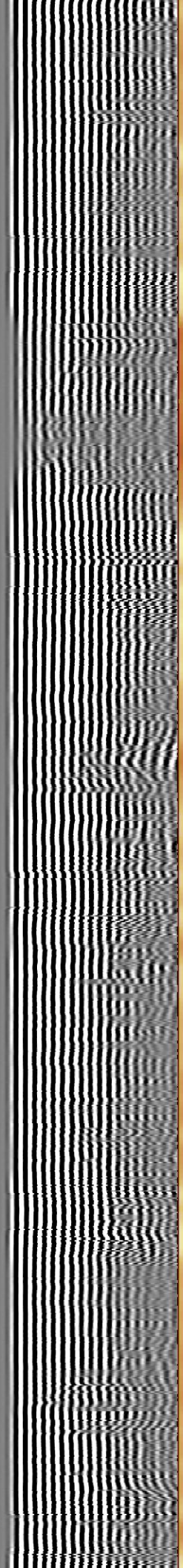
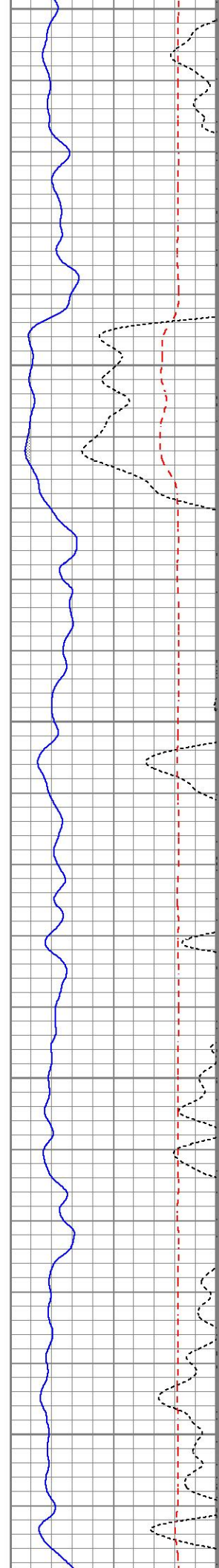


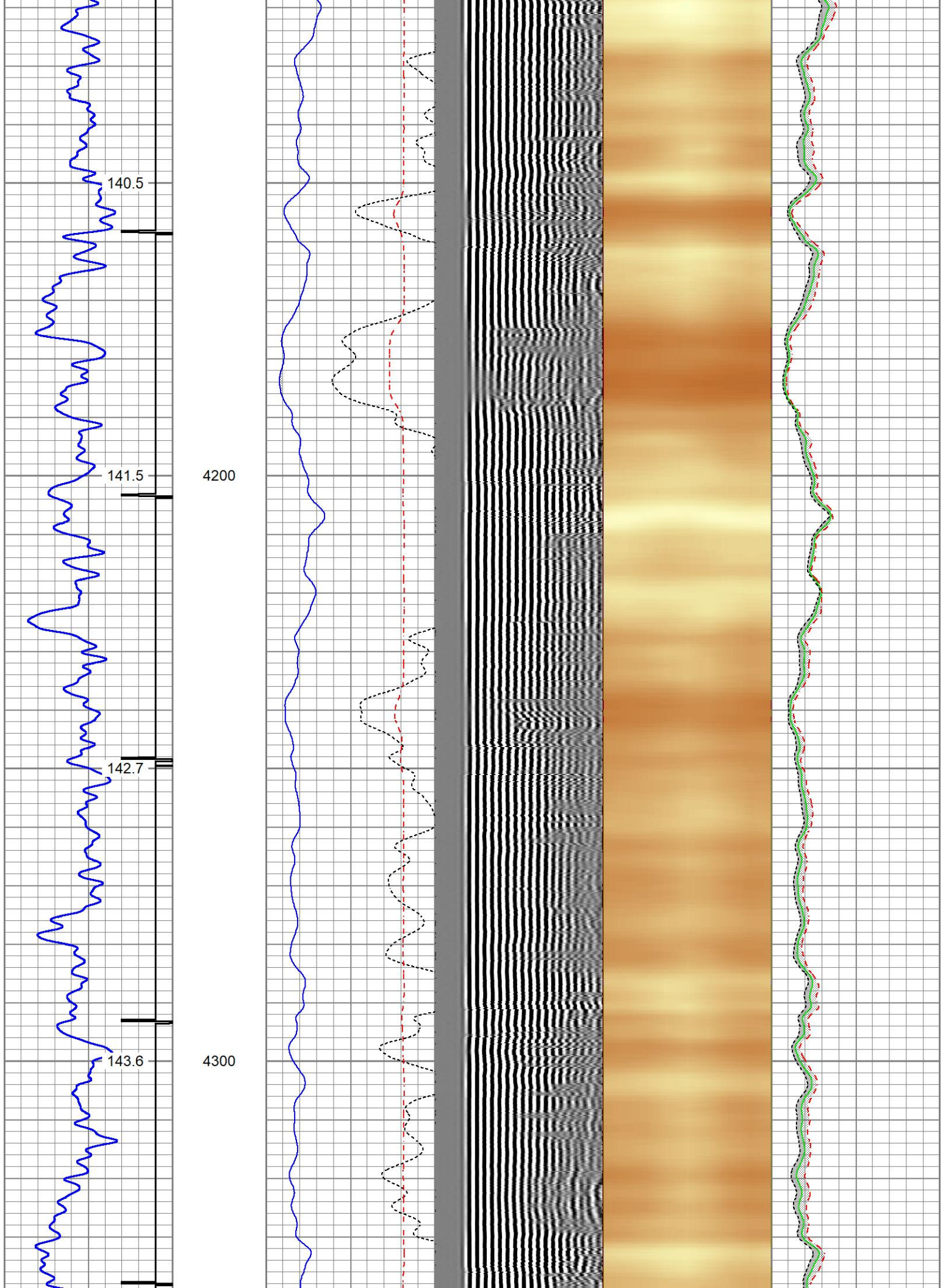


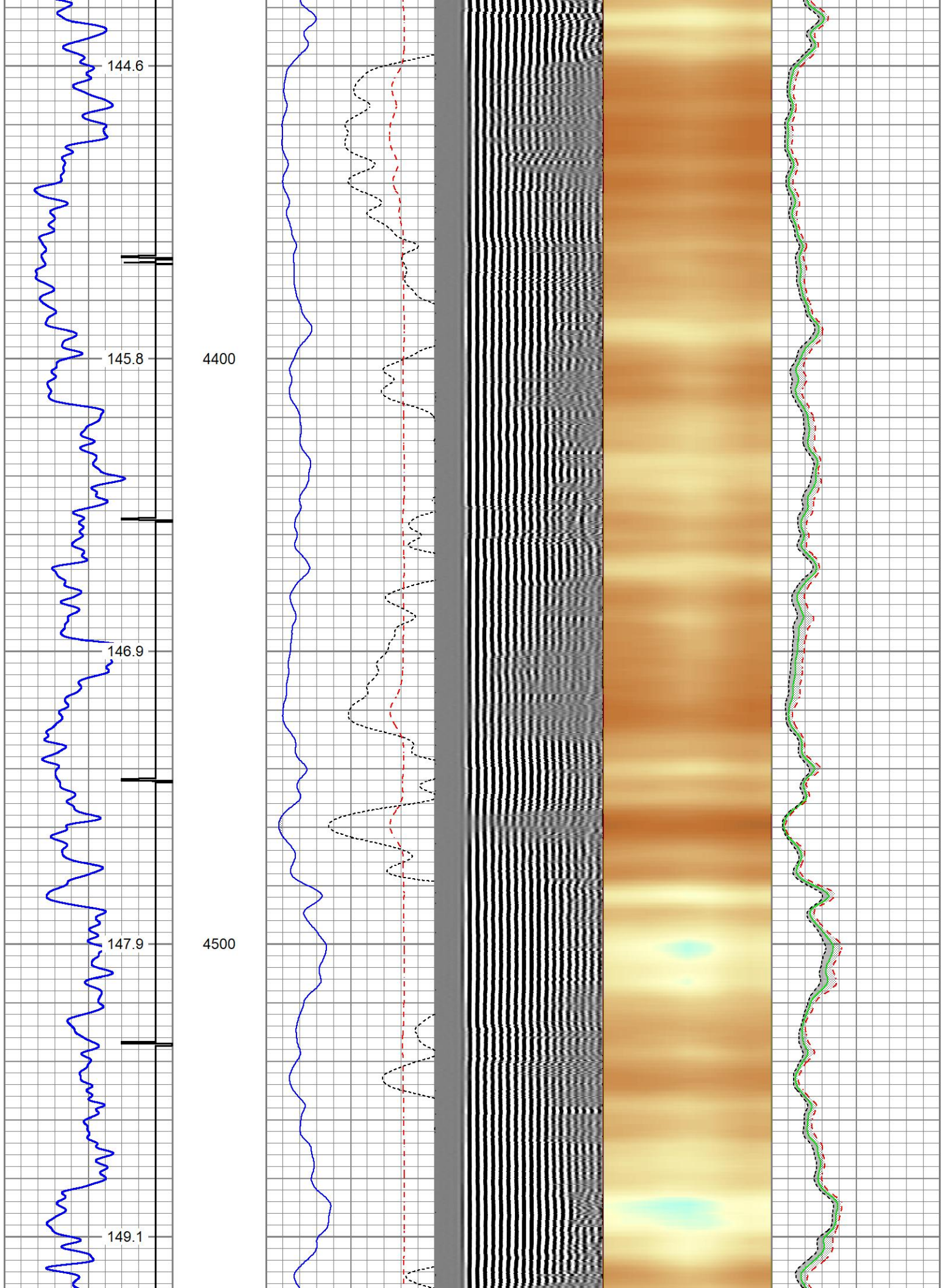


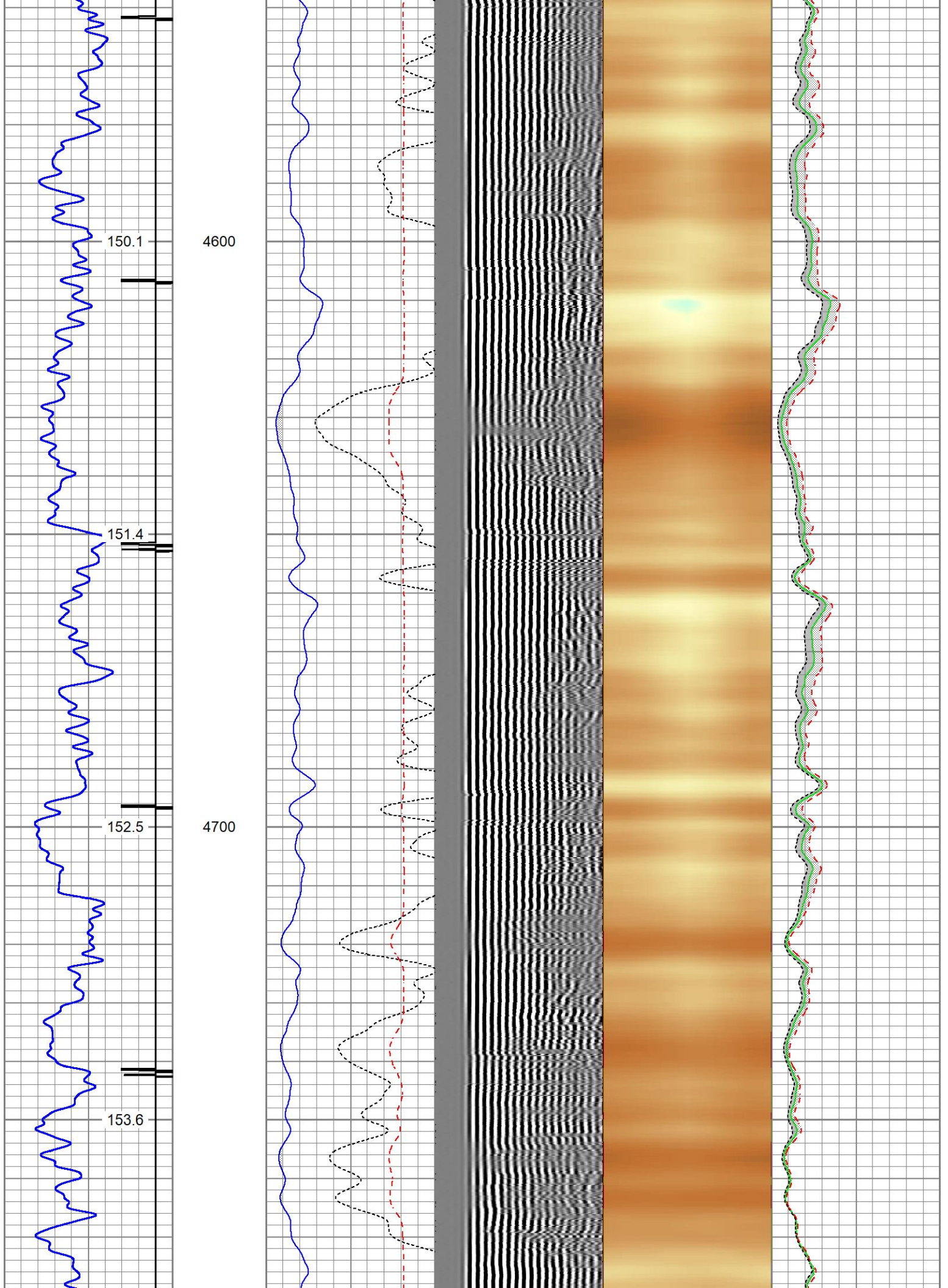


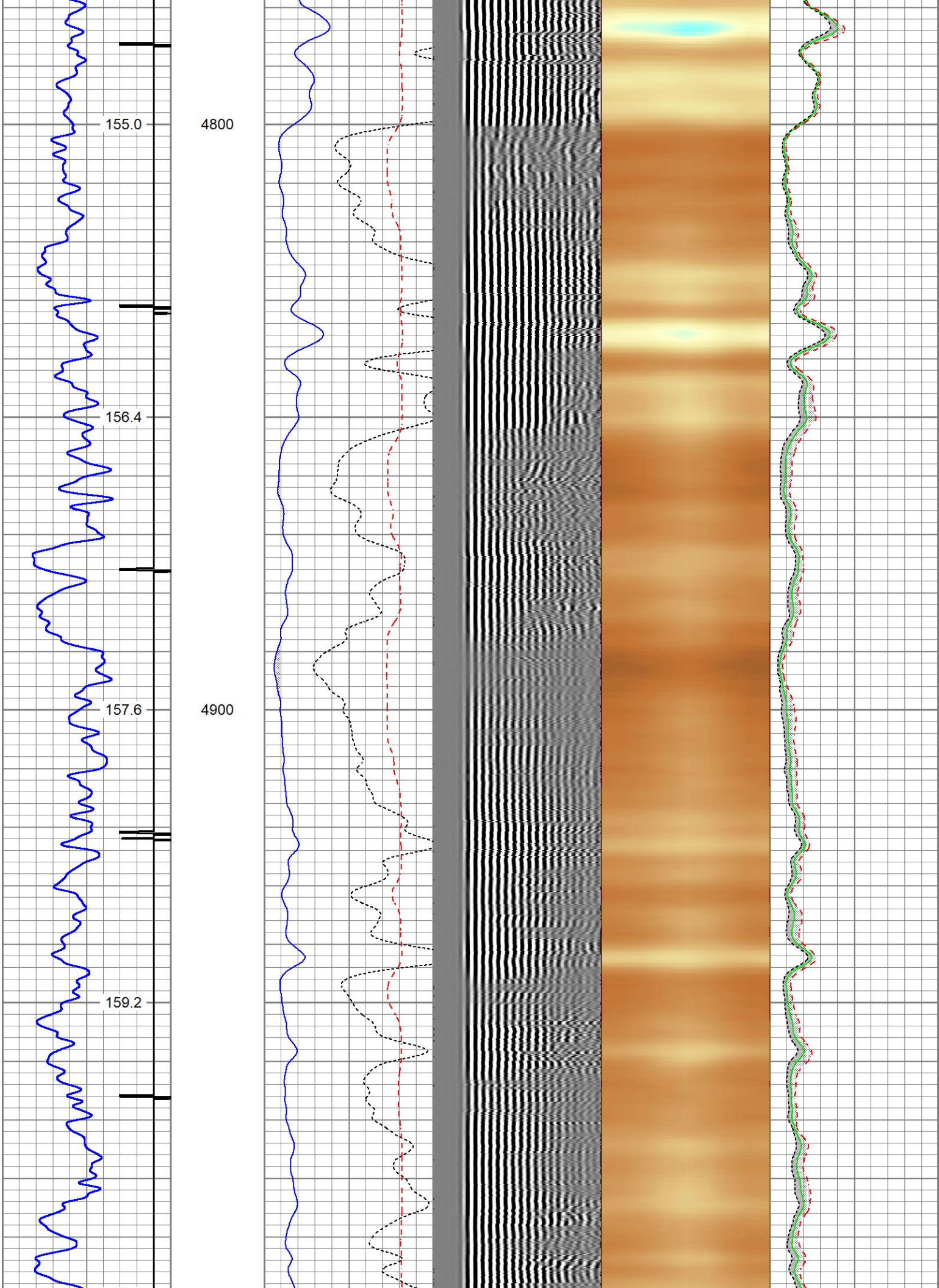
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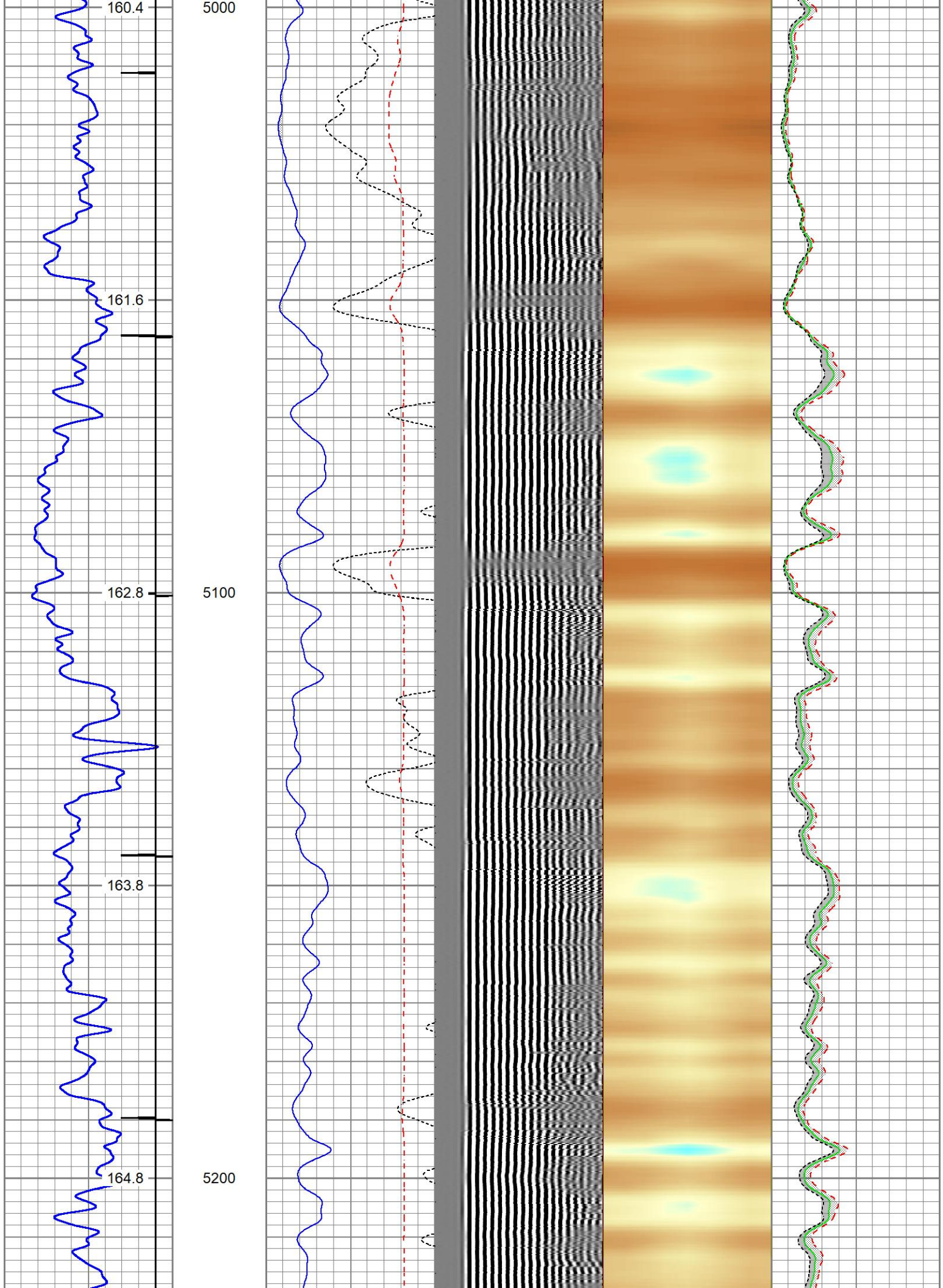


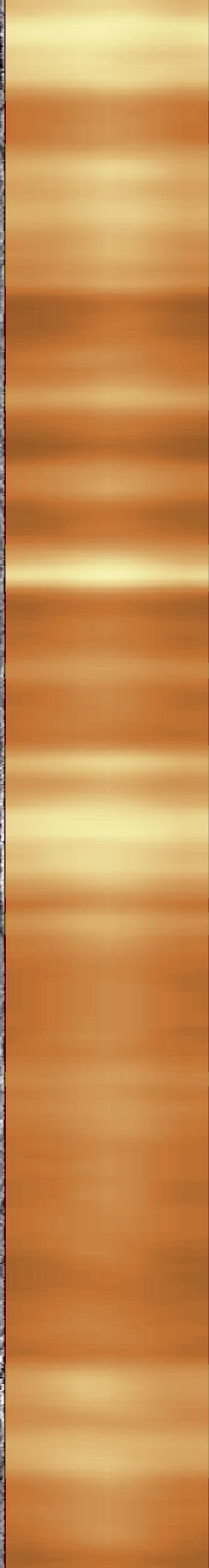
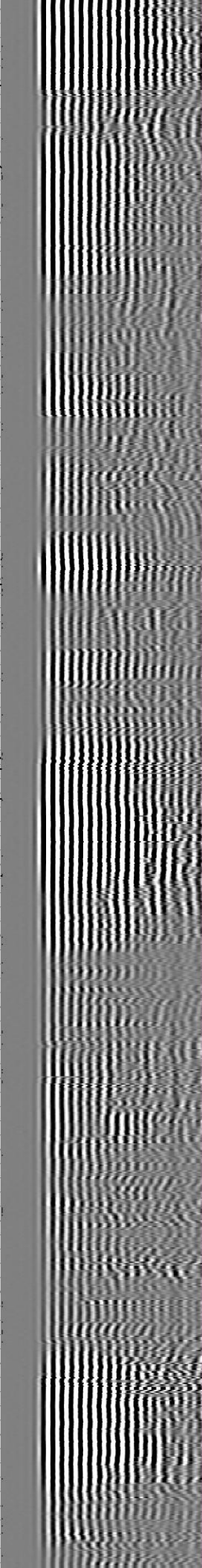
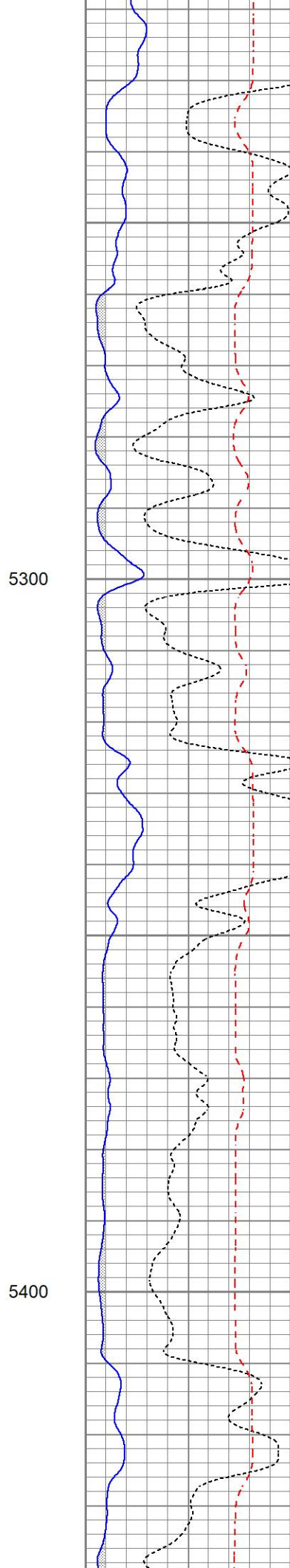
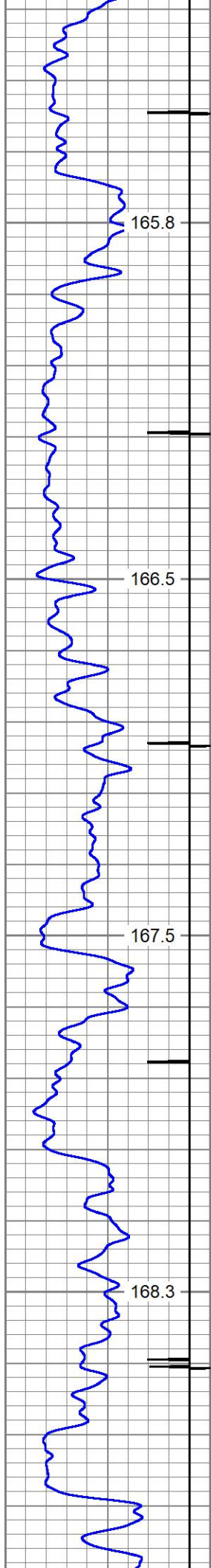


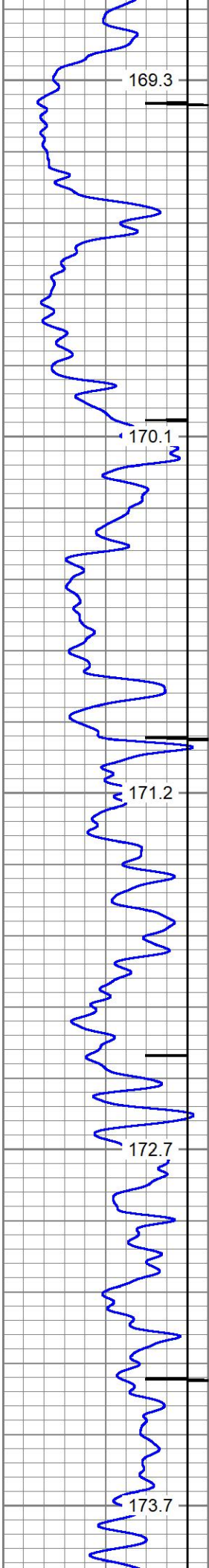






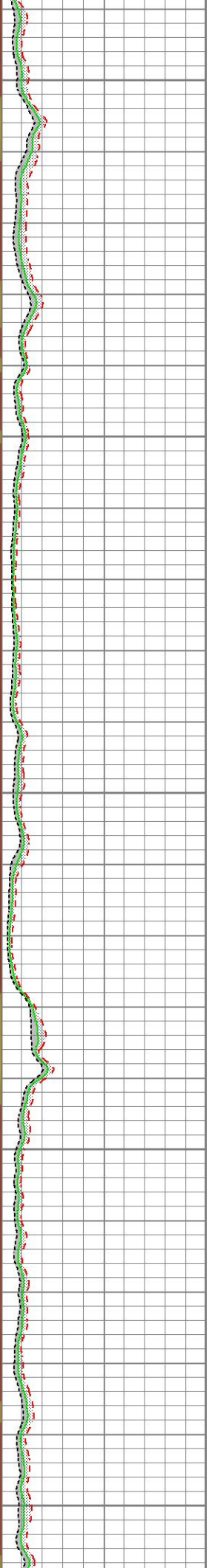
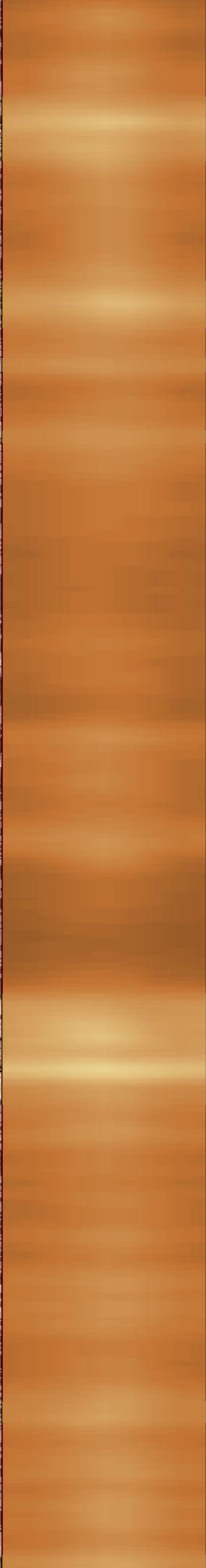
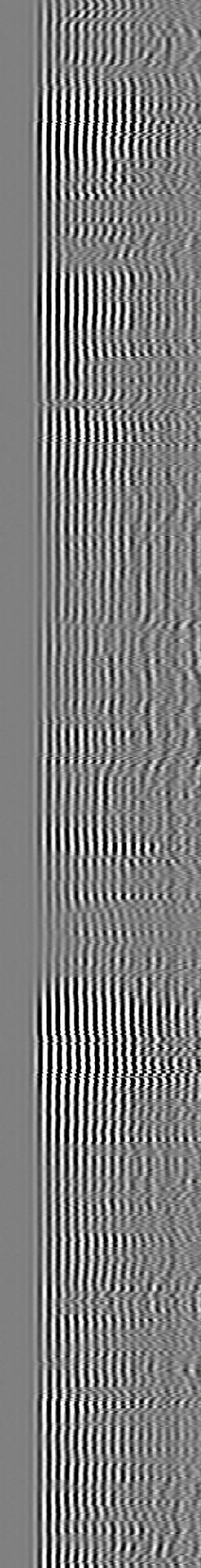
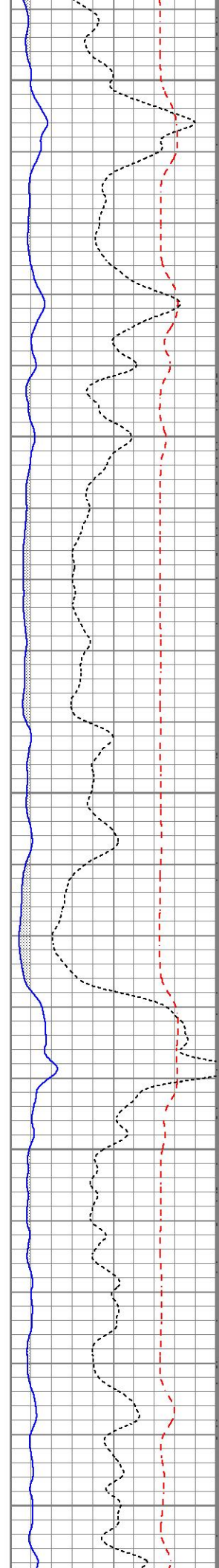


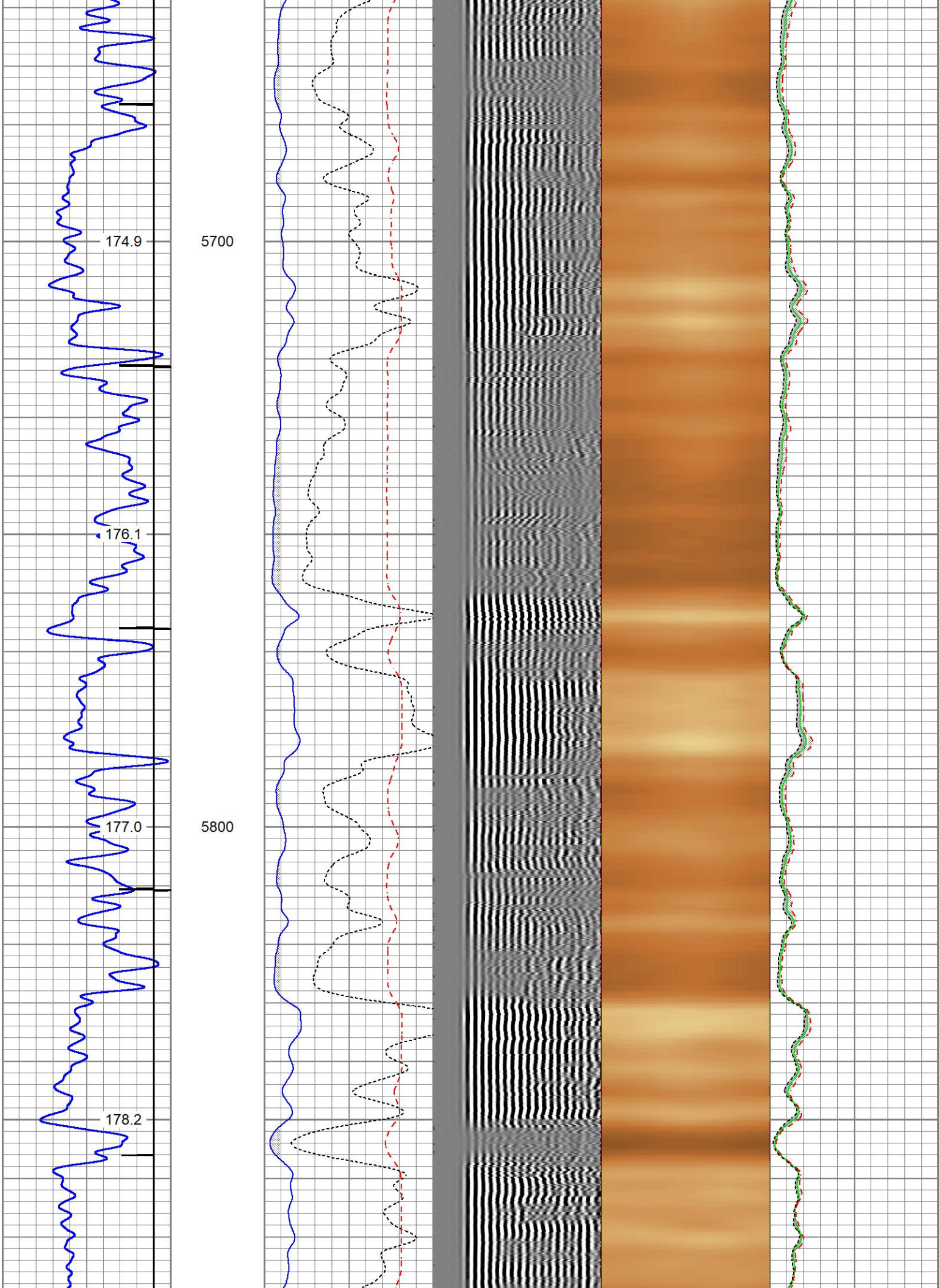


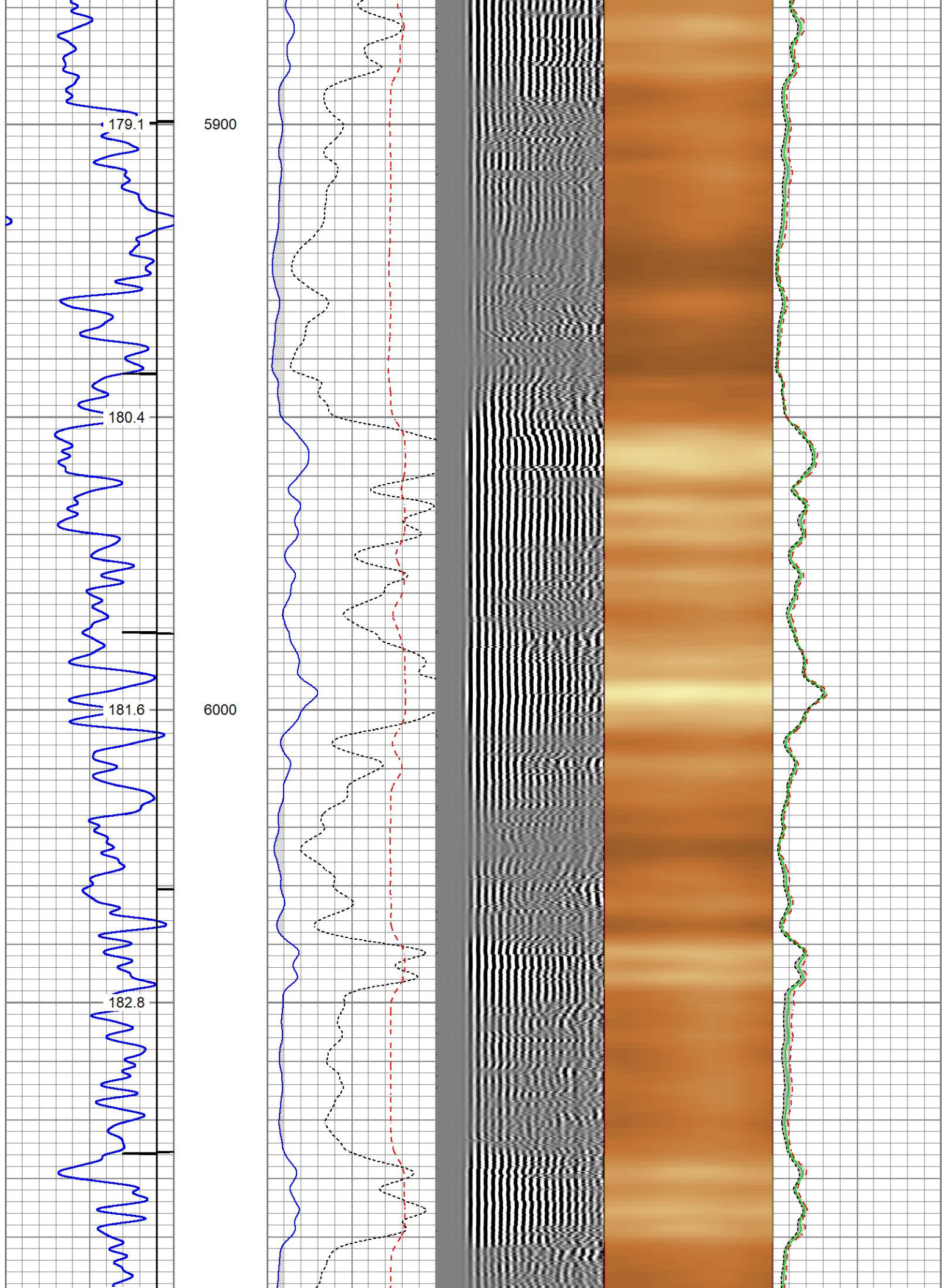


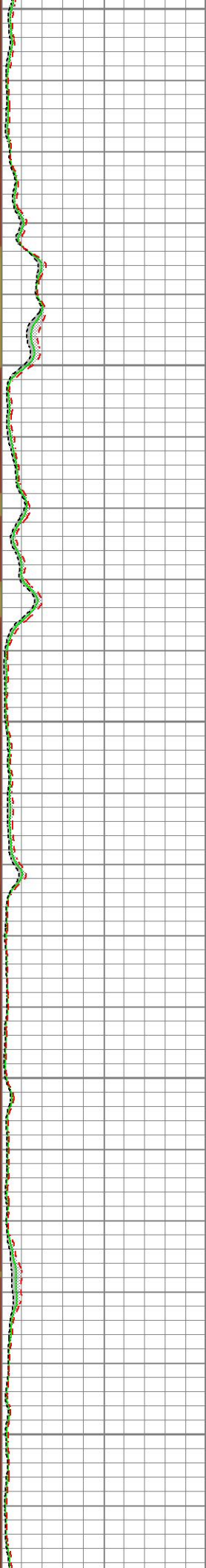
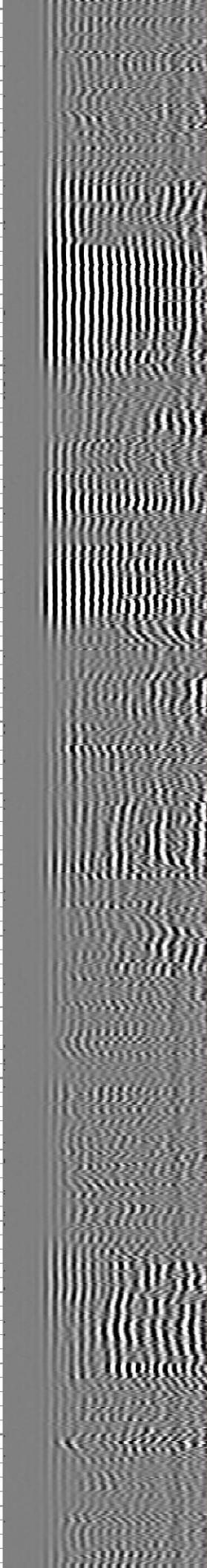
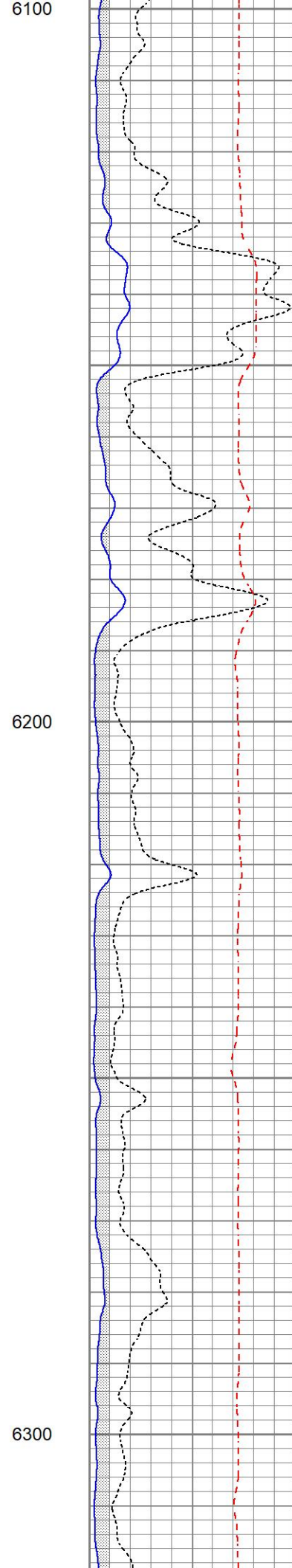
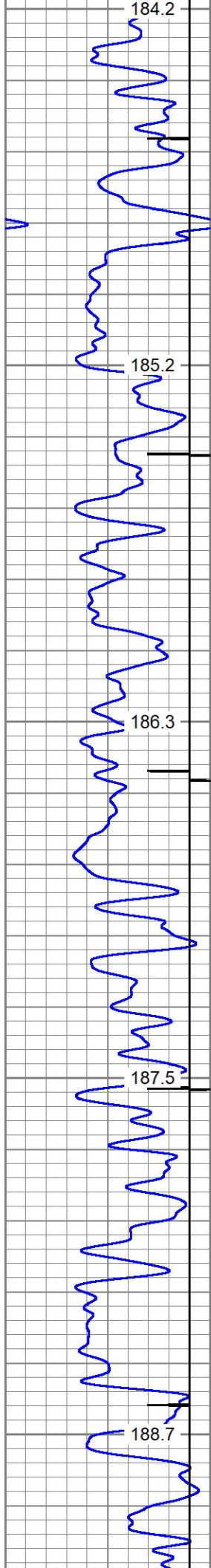
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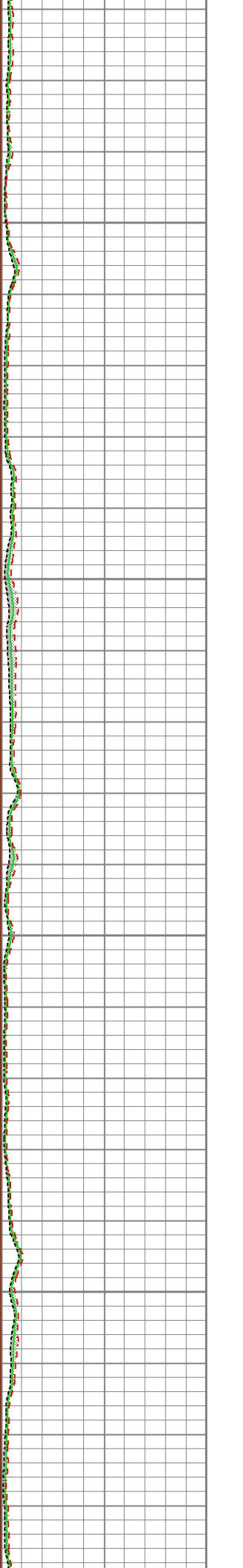
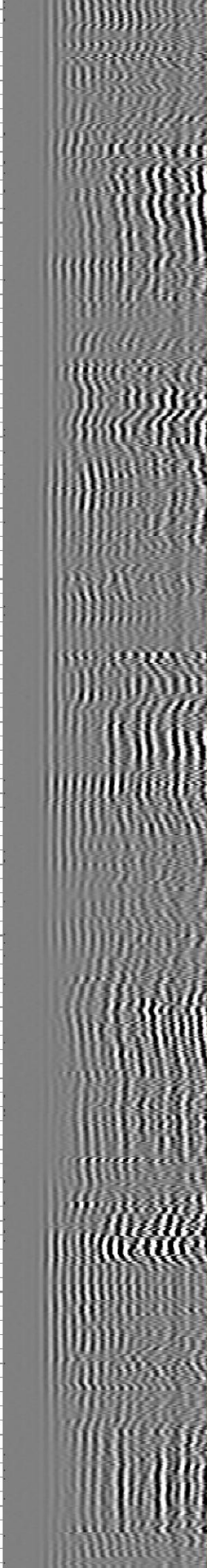
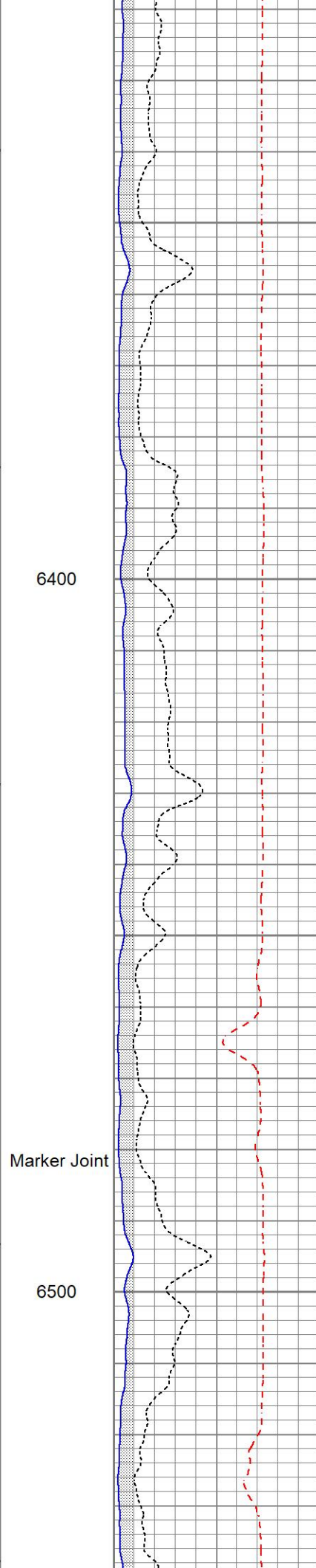
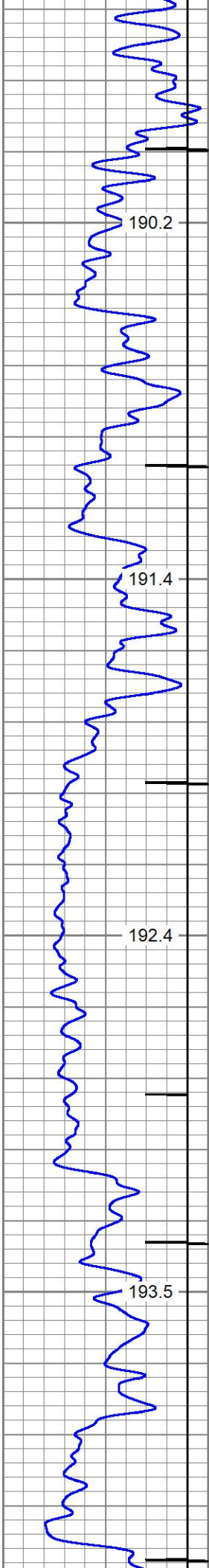
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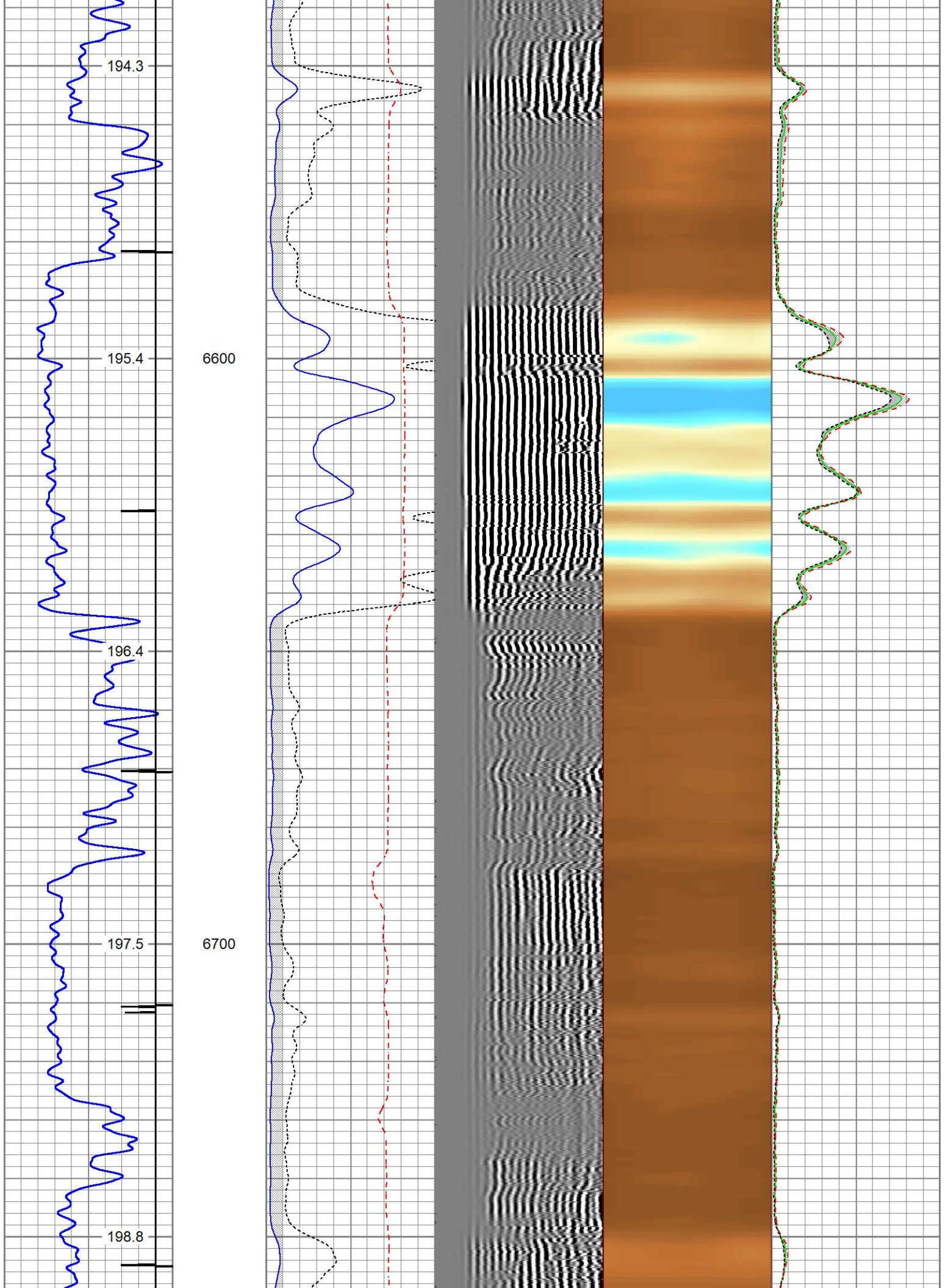


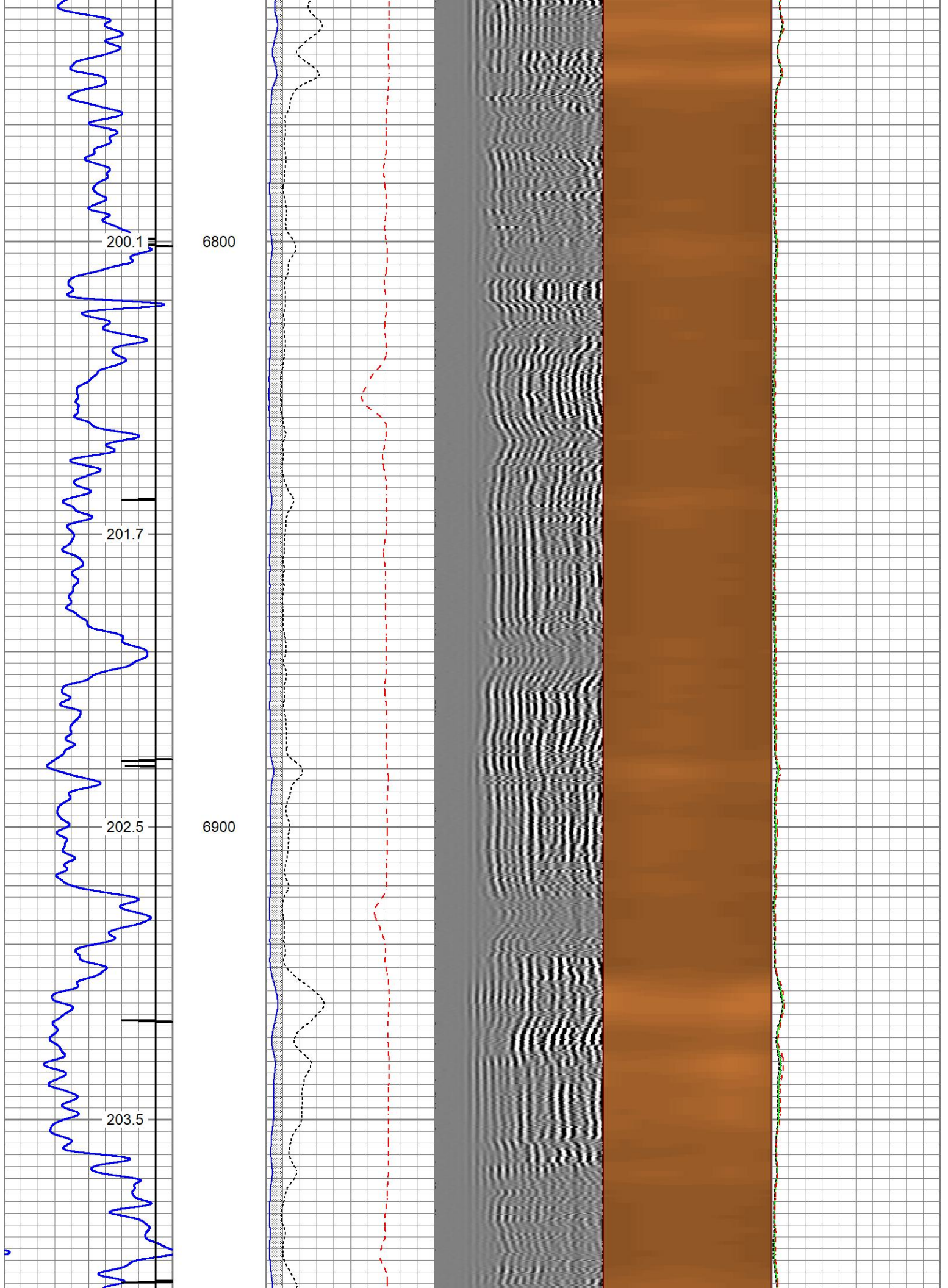


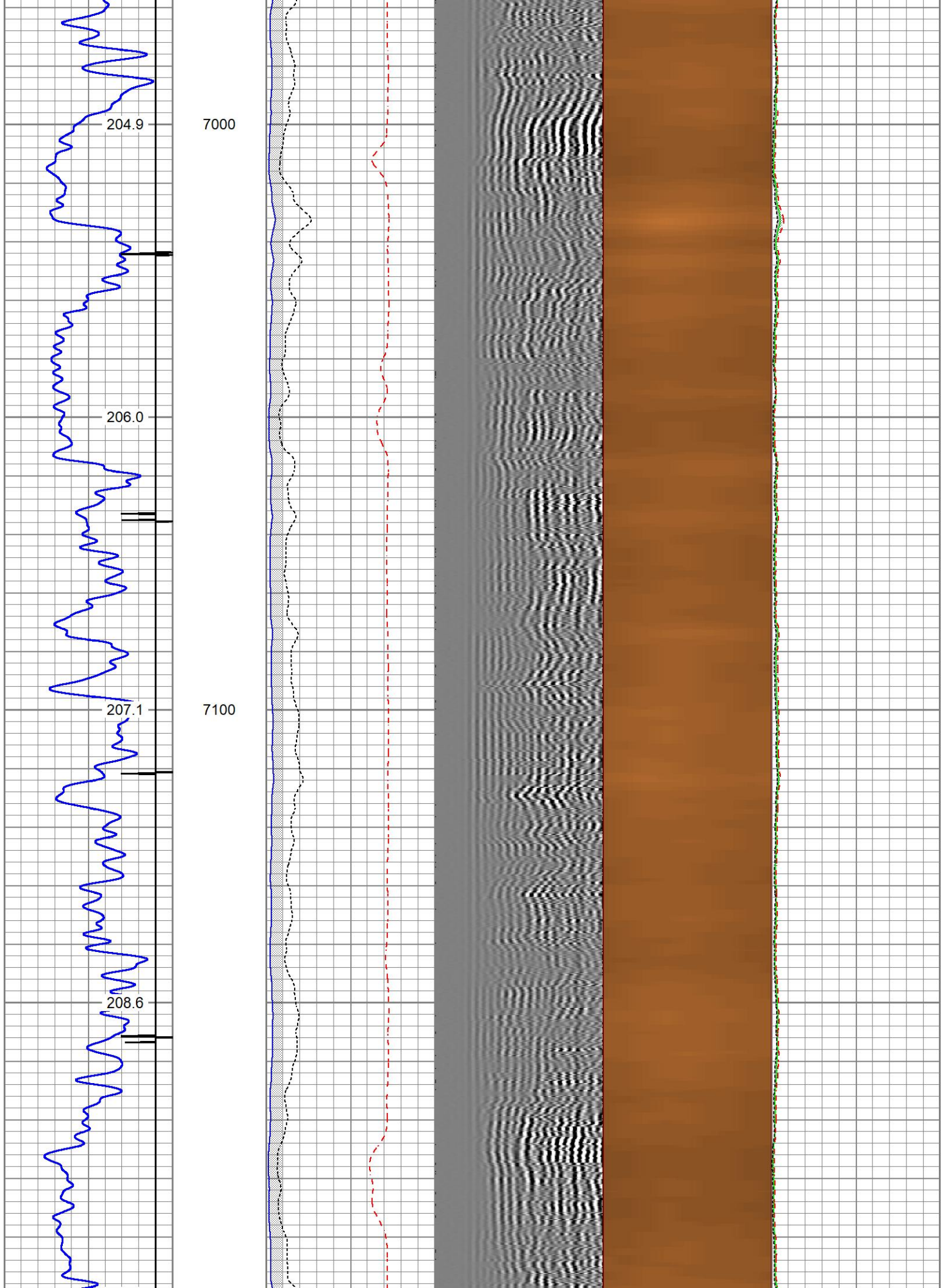


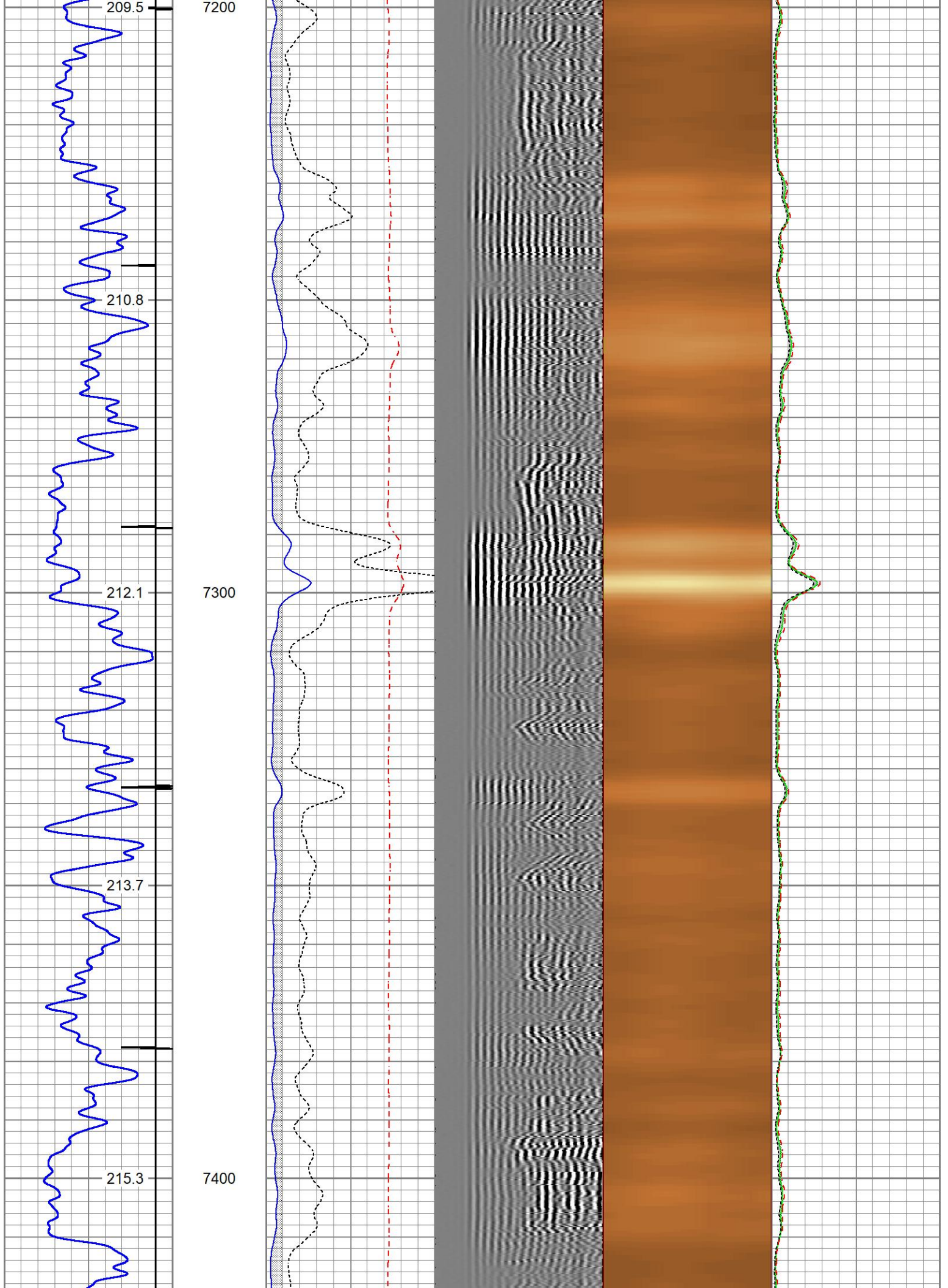


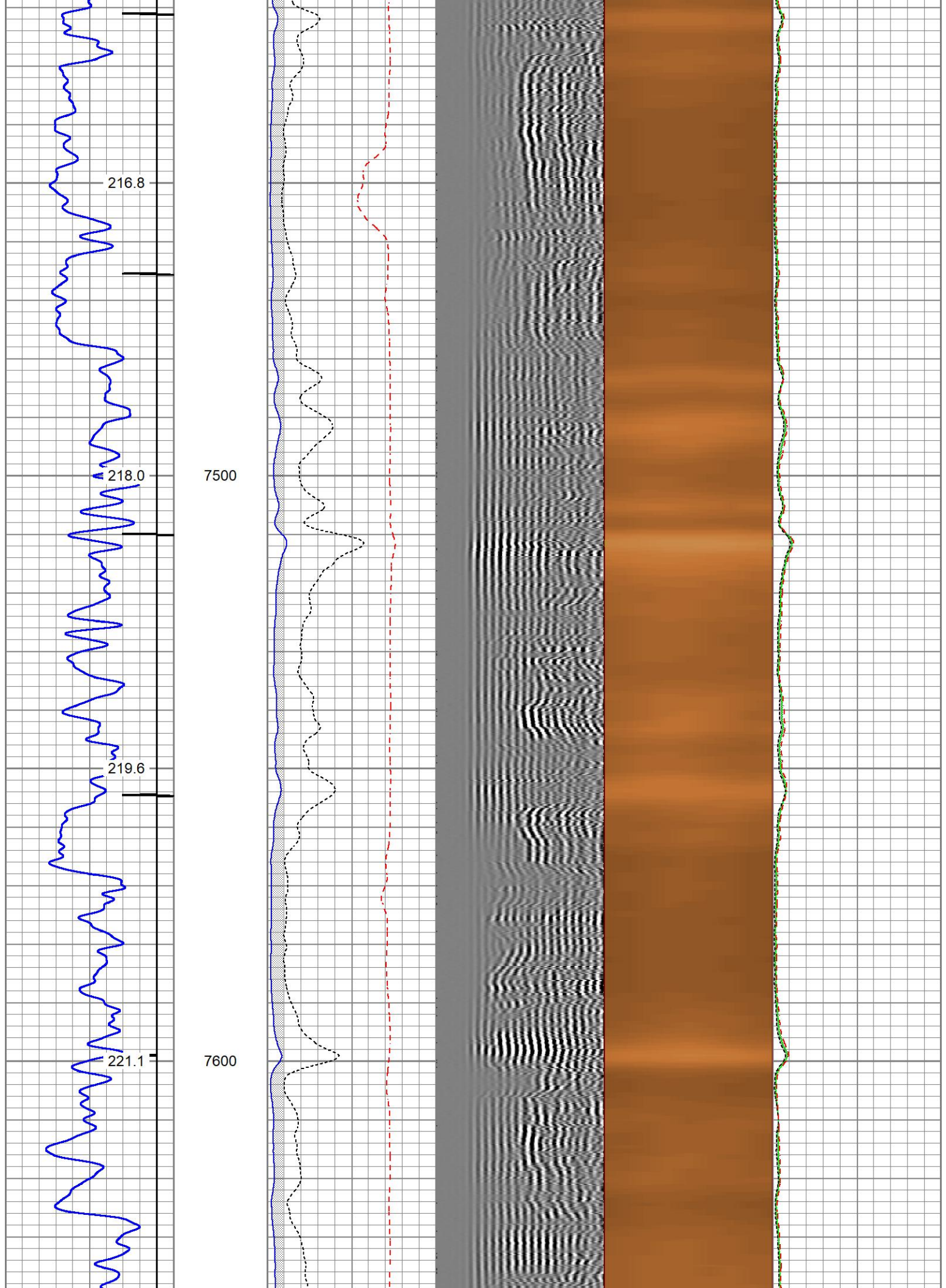


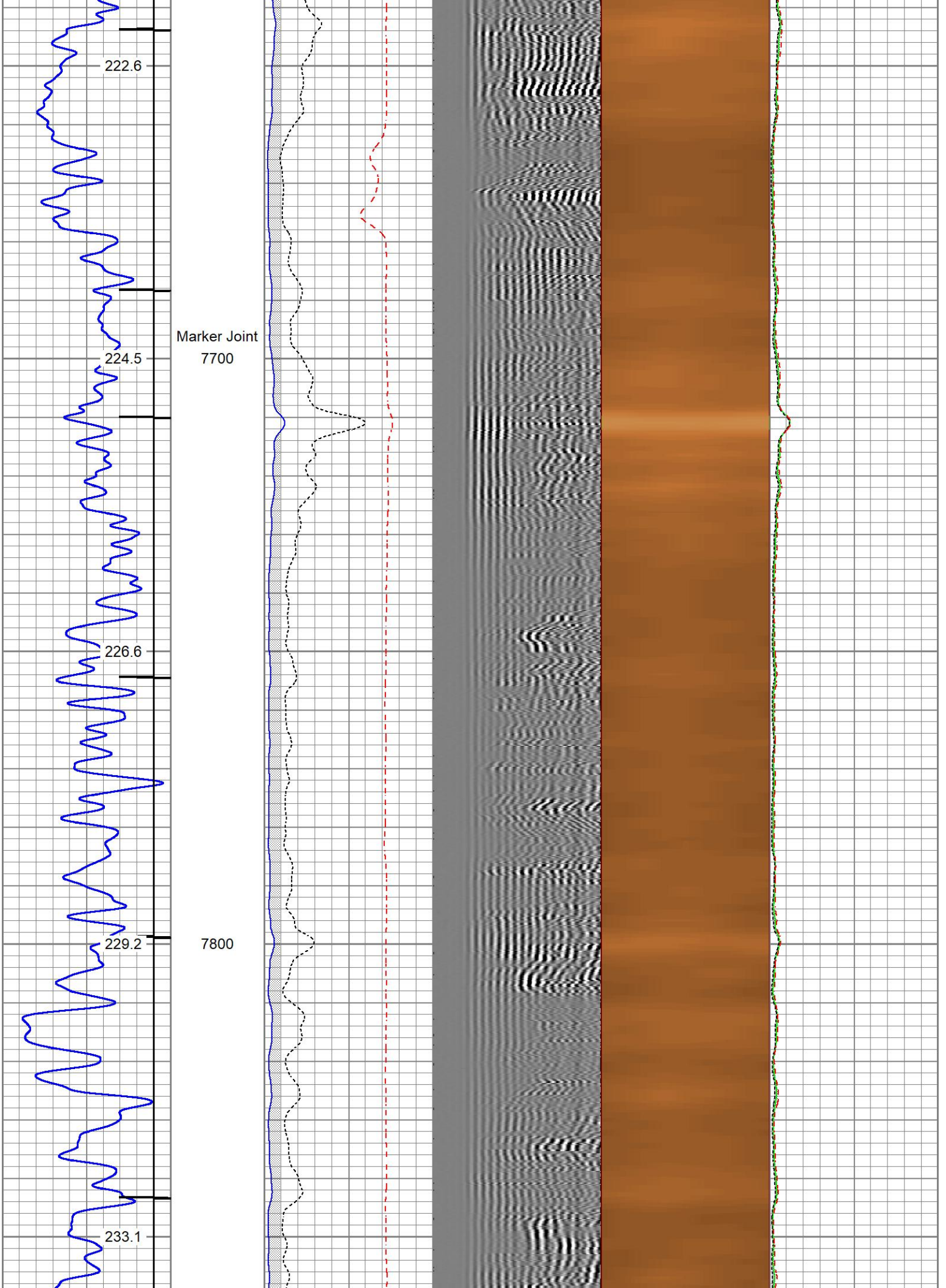


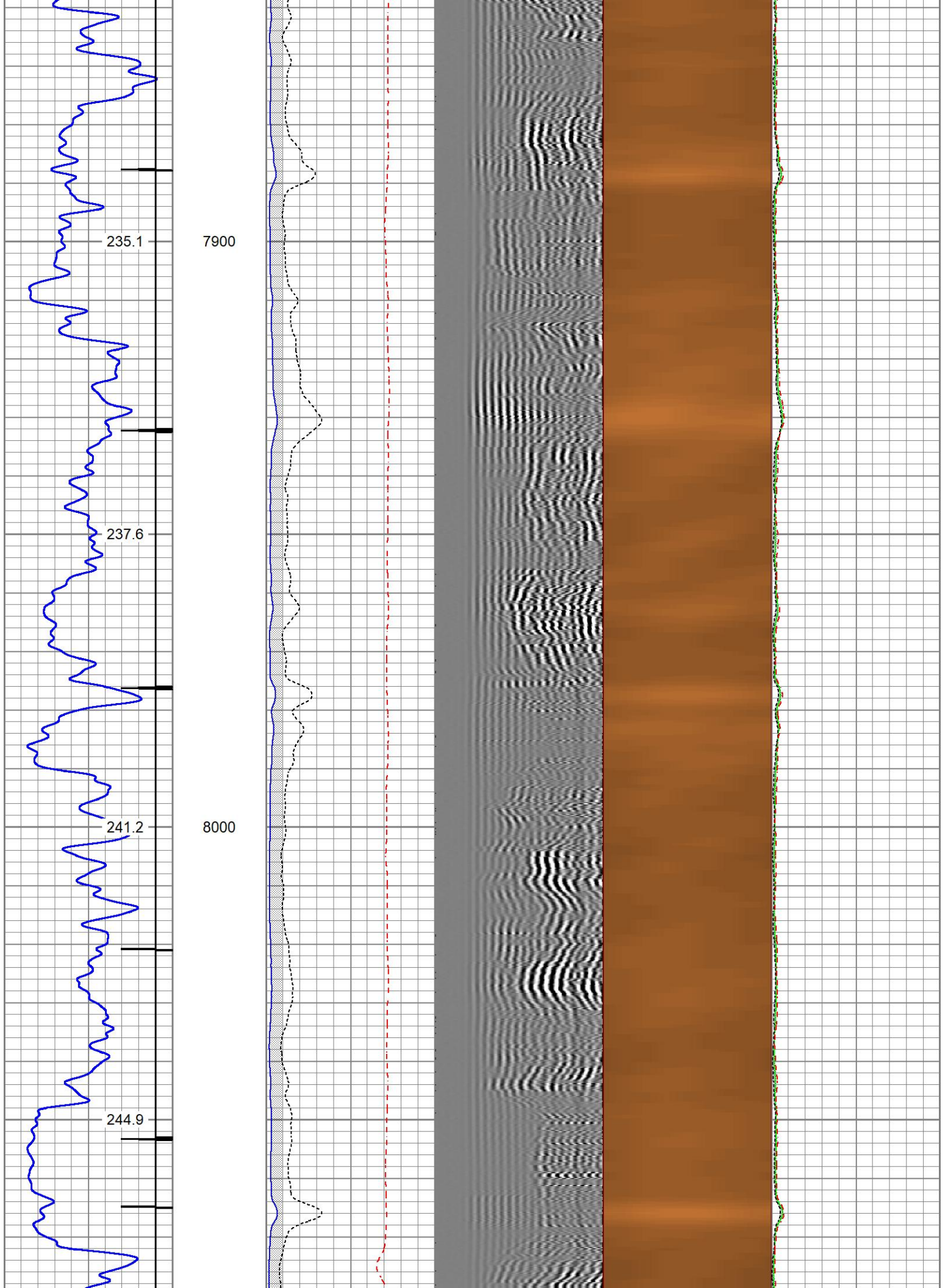


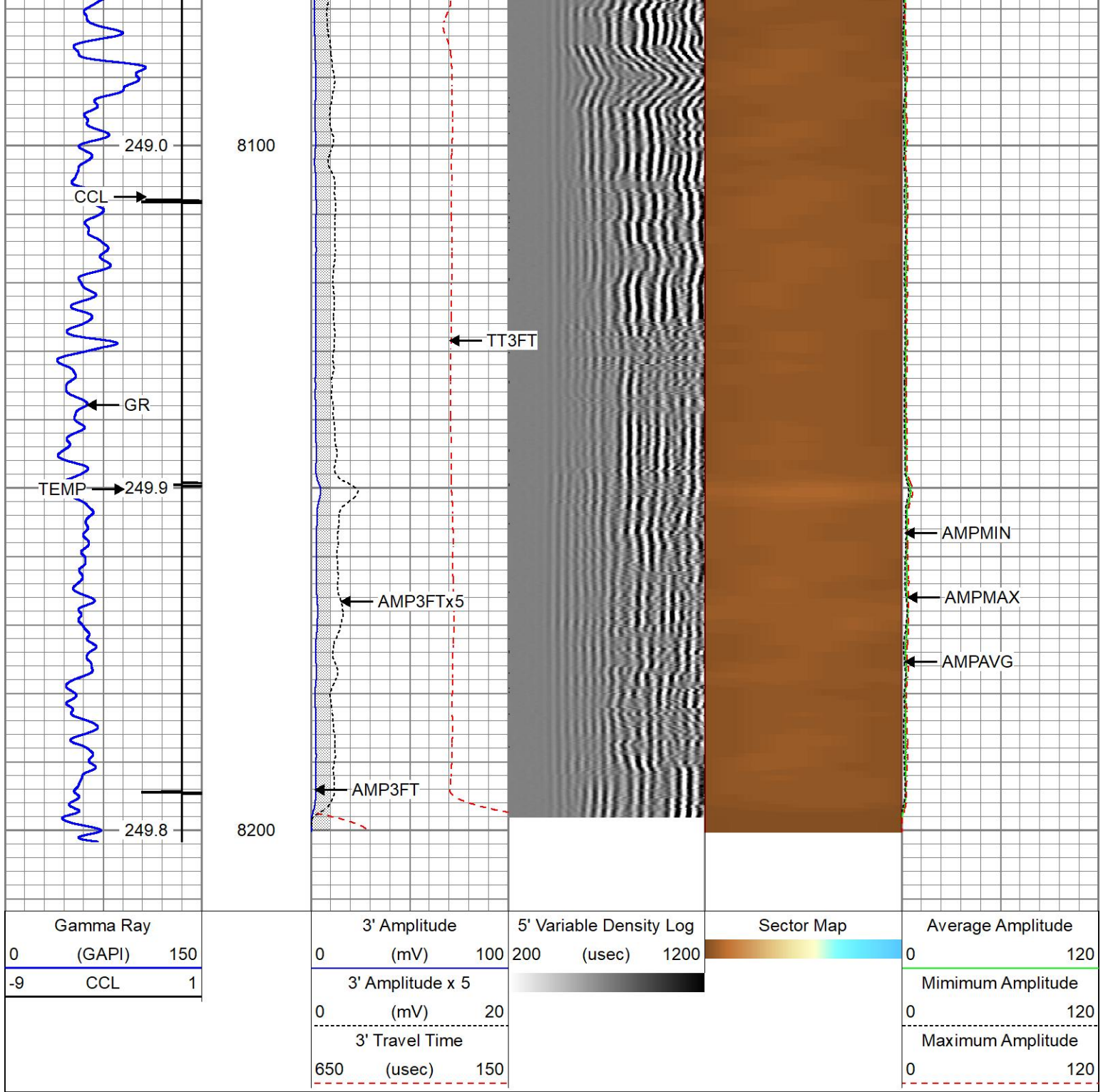






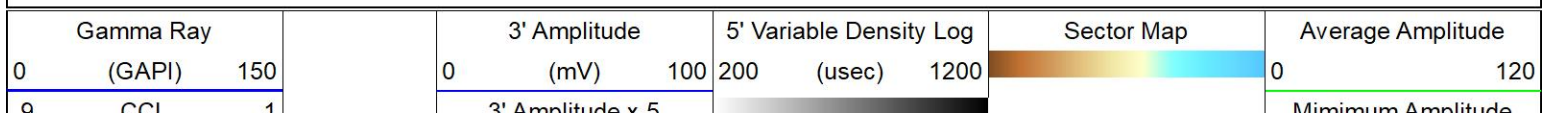






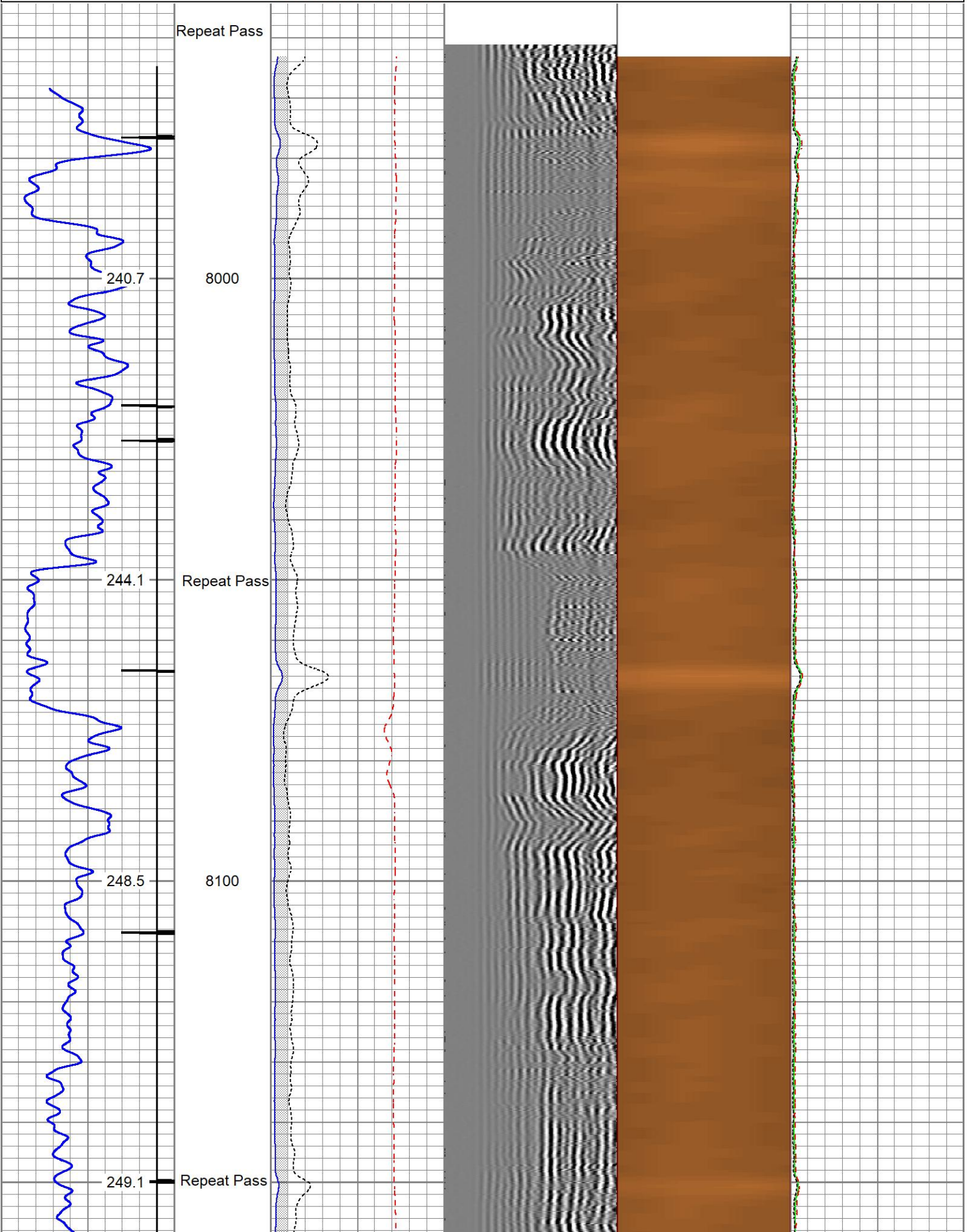
Repeat Pass 5" = 100' (0 PSI)

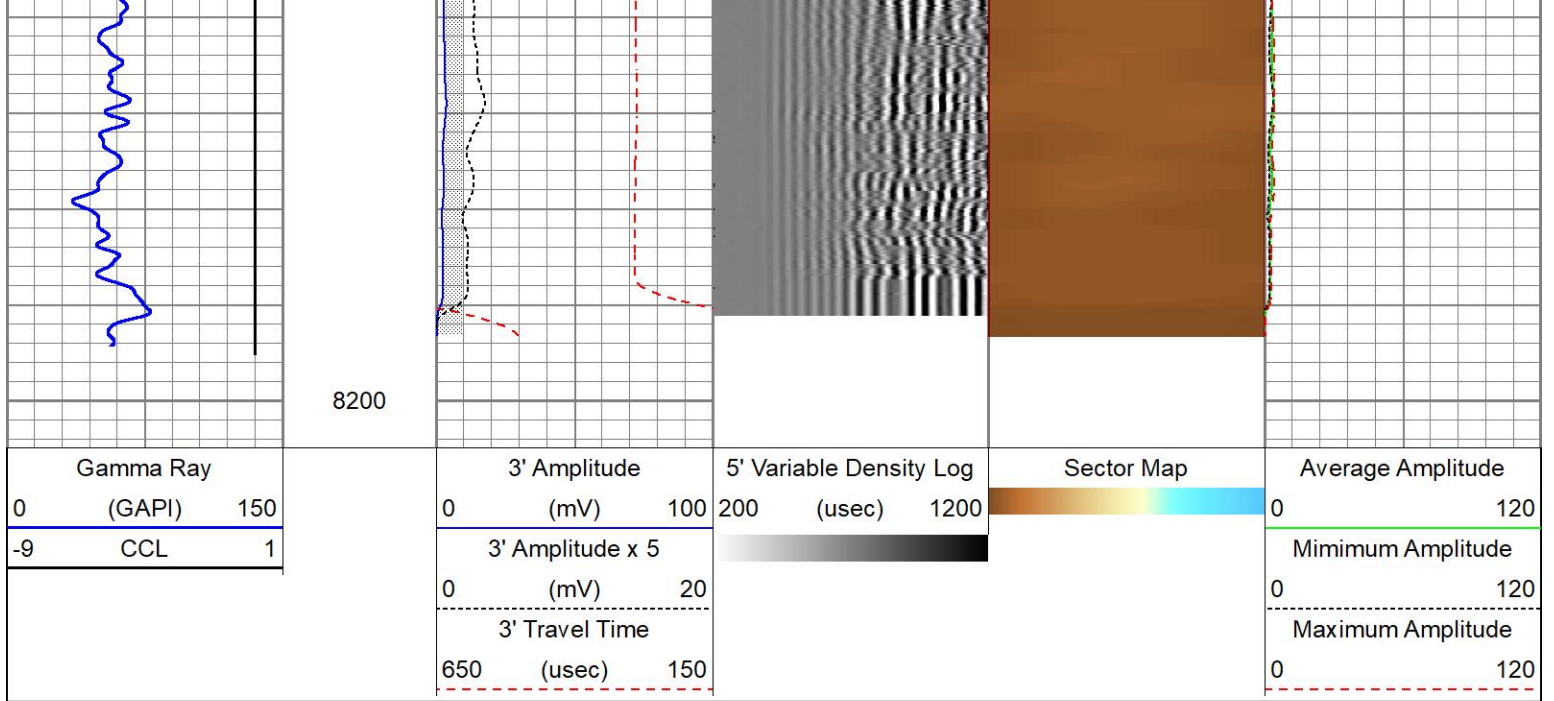
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 Dataset Pathname repeat
 Presentation Format twgrcbl
 Dataset Creation Fri Oct 03 19:12:42 2025
 Charted by Depth in Feet scaled 1:240



0 20
3' Travel Time
650 (usec) 150

0 120
Maximum Amplitude
0 120





Calibration Report

Database File laramie 29-01 fed 0993-21-16w rcbl_cnl.db
 Dataset Pathname main
 Dataset Creation Fri Oct 03 19:17:32 2025

Compensated Neutron Calibration Report

Model: CNT - 275Dig
 Serial Number: 110503dig

SHOP CALIBRATION Mon Jan 30 15:31:15 2023

	Cal Tube	Units
Tank Ratio	11.6940	SS/LS
LS Detector	70.03	cps
SS Detector	776.60	cps
Tool Ratio	11.0899	SS/LS
Tool Gain	1.0545	----

PRE-SURVEY VERIFICATION

	SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)

POST-SURVEY VERIFICATION

	SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)

Gamma Ray Calibration Report

Serial Number: 110255
 Tool Model: GCT_275_0001
 Performed: Fri May 5 10:50:03 2023

Calibrator Value: 151.6 GAPI

Background Reading:	65.3	cps
Calibrator Reading:	295.7	cps
Sensitivity:	0.6579	GAPI/cps

Inclinometer Calibration Report

Performed:	Fri May 5 10:59:25 2023				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-904.00	895.00	-1.00	1.00	gee
Y Accelerometer	-908.00	898.00	-1.00	1.00	gee
Z Accelerometer	9.93	-894.87	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1905-150	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	498.733	ft

Master Calibration, performed Tue Sep 30 12:25:35 2025:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.869	0.250	81.196	93.561	-0.079
CAL	0.001	0.755				
5'	0.006	0.711	0.250	81.196	114.834	-0.457
SUM						
S1	0.012	0.869	0.000	100.000	116.652	-1.347
S2	0.009	0.898	0.000	100.000	112.419	-0.980
S3	0.003	0.918	0.000	100.000	109.272	-0.317
S4	0.000	0.879	0.000	100.000	113.790	-0.042
S5	0.000	0.872	0.000	100.000	114.681	-0.004
S6	0.002	0.872	0.000	100.000	114.832	-0.172
S7	0.004	0.874	0.000	100.000	114.892	-0.431
S8	0.009	0.922	0.000	100.000	109.525	-0.944

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.755	1.000	0.000


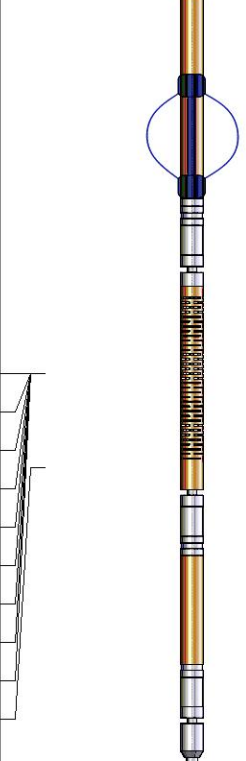
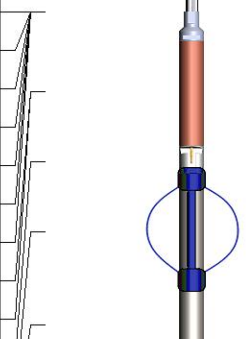
Air Zero Calibration, performed Tue Sep 30 07:50:19 2025:

	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:	(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)	
GCT_FMWR	20.13		Cable-Head-Titan 1 7/16" Cable Head	1.00	1.44	1.00	
mSec_Count	20.13						
RBT_Status	20.13						
Error_Ct	20.13						
			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	14.63			RBT8acc-Probe275acc (FW1905-150) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
WVFS7	14.63						
WVFS6	14.63						
WVFS5	14.63						
WVFS4	14.63						
WVFS3	14.63						
WVFS2	14.63						
WVFS1	14.63						
WVF3FT	14.63						
WVF5FT	13.63						
RBT_HV	10.38						
RBT_ACCZ	10.38						
RBT_ACCY	10.38						
RBT_ACCX	10.38						
GCT_HV	10.38						
WVFSYNC	10.38			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	10.38			GCT_acc-GCT_275_0001 (110255) Probe 2.75" 6 Pin Gamma Ray - CCL w/ Temp	5.01	2.75	55.00
CCL\$2	9.53						
CCL\$1	9.53						
GCT_Temp	8.78						

