



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

Company	Caerus Piceance LLC.	Company	Caerus Piceance LLC.
Well	BJU G35 Fed 14D-35-496	Well	BJU G35 Fed 14D-35-496
Field	Grand Valley	Field	Grand Valley
County	Garfield	County	Garfield
State	Colorado	State	Colorado

Location:	API # : 05-045-24345	Other Services	CNL
Permanent Datum	SEC 35 TWP 4S RGE 96W	Elevation	
Log Measured From	Ground Level	Elevation	8166'
Drilling Measured From	Kelly Bushing	K.B.	8196'
	Kelly Bushing	D.F.	8195'
		G.L.	8166'

Date	23-JUN-2022
Run Number	One
Depth Driller	12012 FT
Depth Logger	11851 FT
Bottom Logged Interval	11843 FT
Top Log Interval	Surface
Open Hole Size	8.750"
Type Fluid	Fresh Water
Density / Viscosity	8.34 lb/gal
Max. Recorded Temp.	291° F
Estimated Cement Top	See Log
Time Well Ready	ROA
Time Logger on Bottom	8:20
Equipment Number	8047
Location	Grand Junction Colo
Recorded By	P. Edwards
Witnessed By	C. Woodmansee

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Two	8.75"	Surface	12012'				
Casing Record	Size (in)	Wgt (lbs/ft)	Grade	Top	Bottom		
Surface Casing	9.625"	36	J-55	Surface	3035.8 FT		
Intermediate #1	4.5"	11.6	P-110	Surface	12004.5 FT		
Intermediate #2							
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 @ 30FT
 Marker Joint from 8022 FT - 8032 FT
 Log ran from 11851 FT to Surface
 Log ran with 0 PSI surface induced pressure.

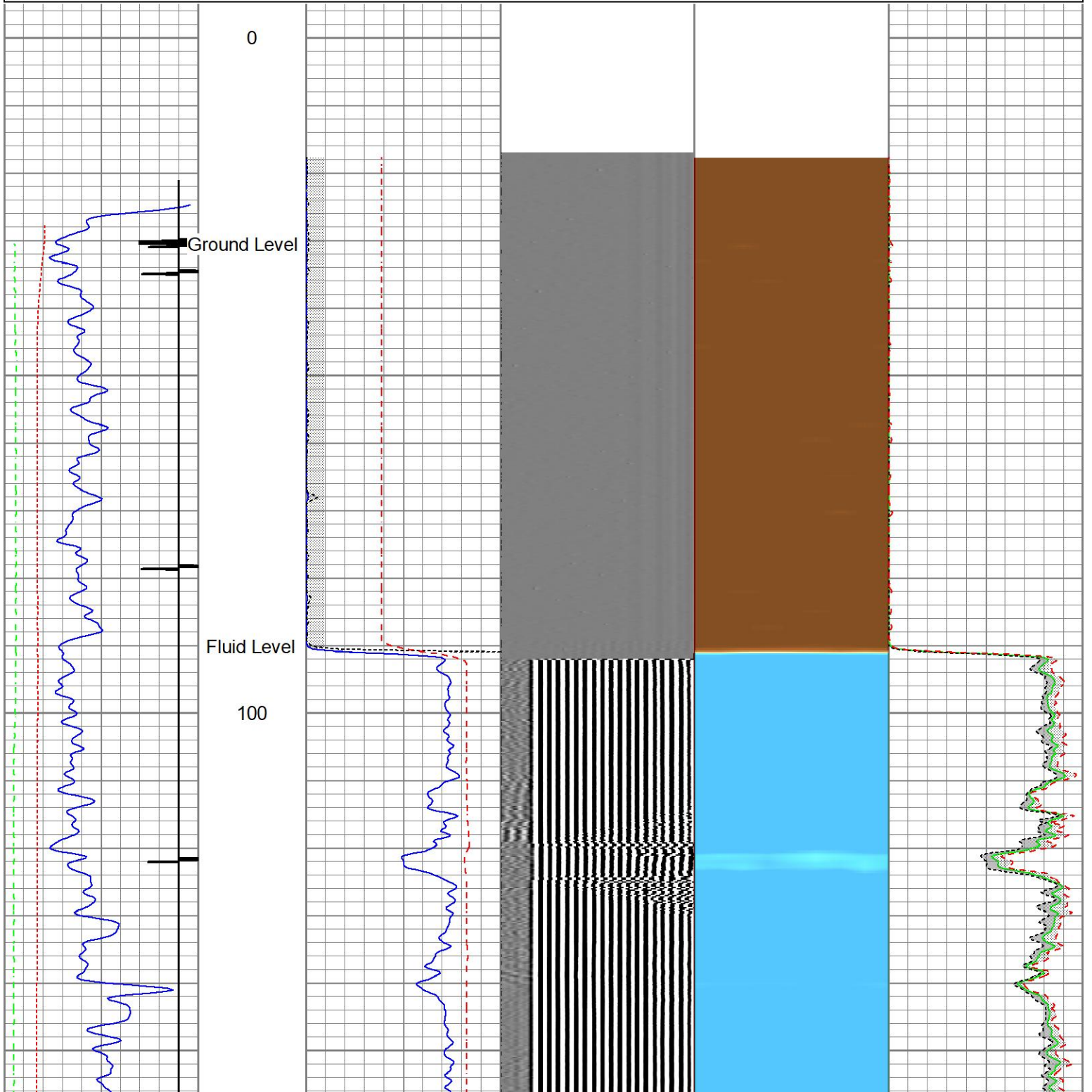
 Thank you for choosing The Wireline Group!!!

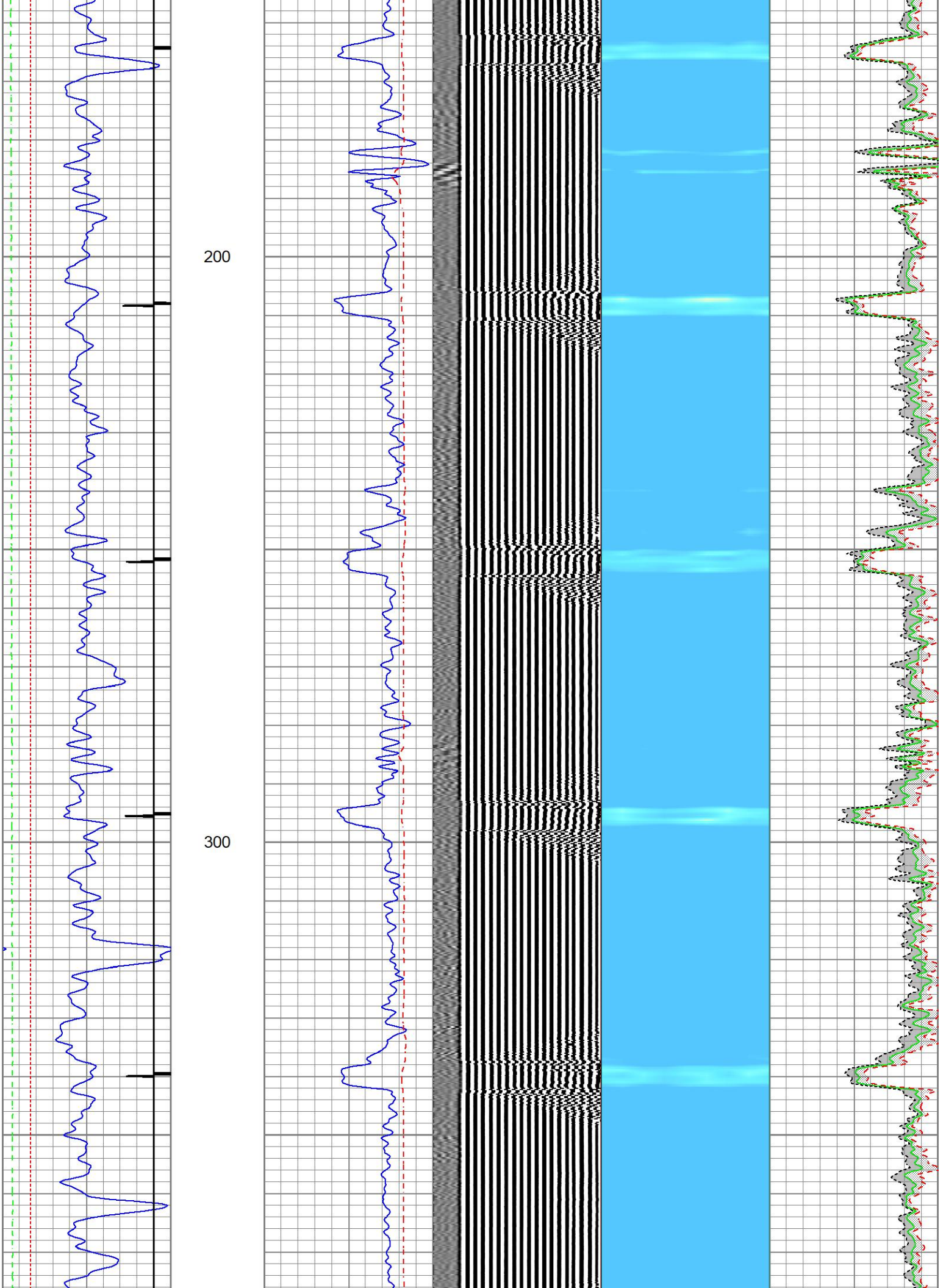


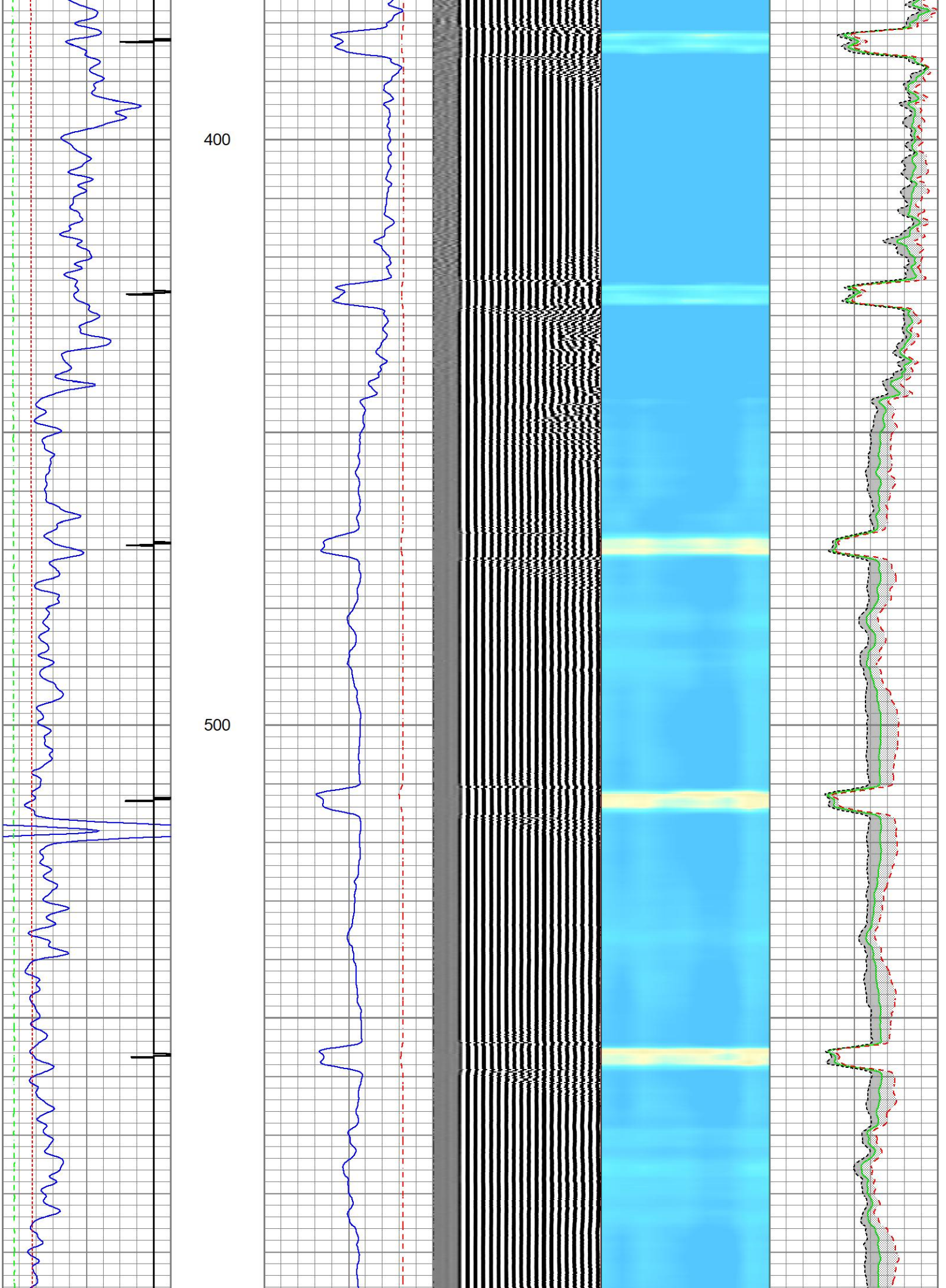
Main Pass 5" = 100'

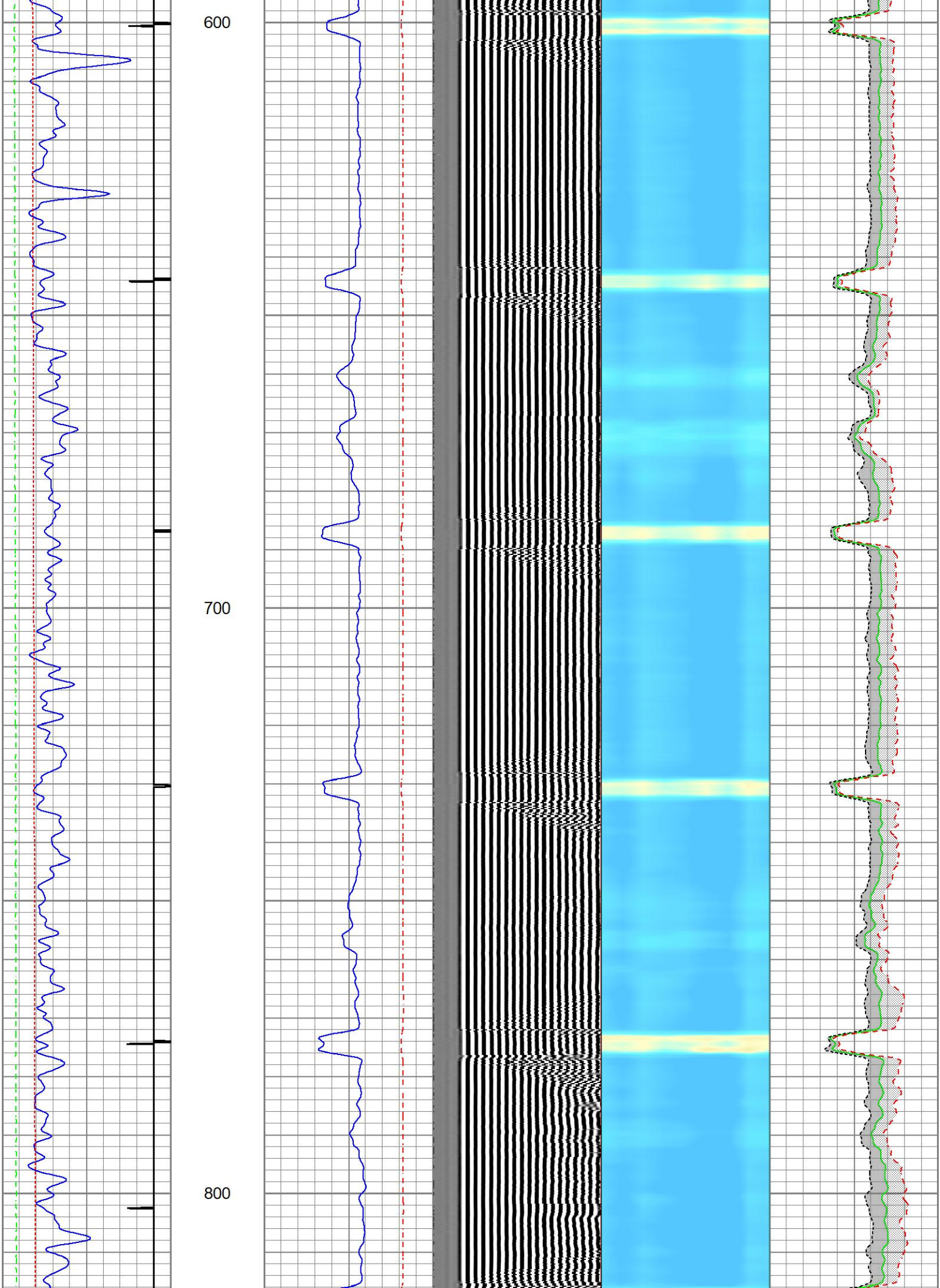
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 Presentation Format twg_radii_caerus_color
 Dataset Creation Thu Jun 23 13:41:35 2022
 Charted by Depth in Feet scaled 1:240

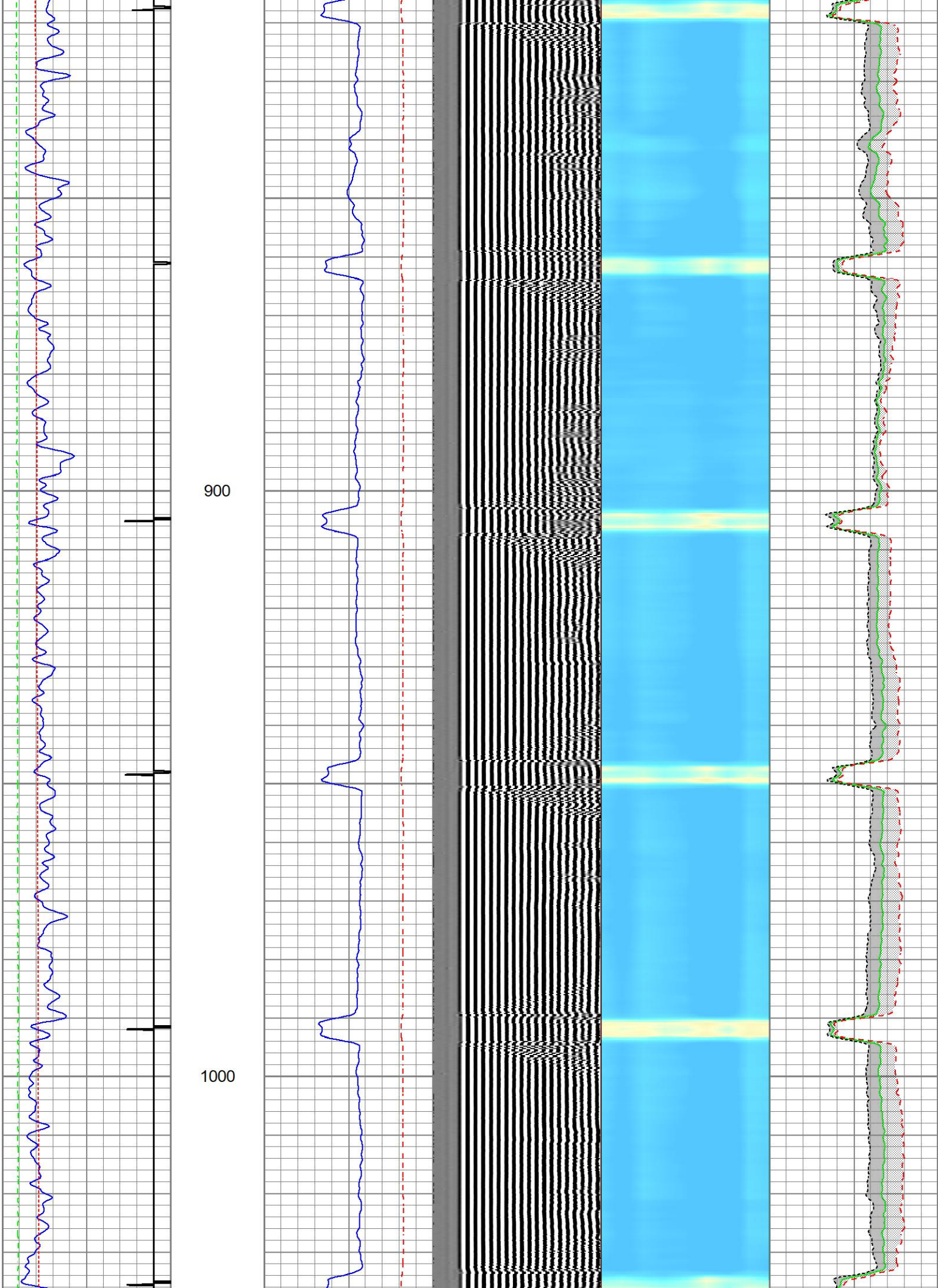
Gamma Ray 0 (GAPI) 200	3' Amplitude 0 (mV) 100	200 5' VDL 1200	Sector Map	Average Amplitude 0 120
CCL	3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 120
Line Tension 0 (lb) 4000	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 120
GCT_Temp 0 (degF) 300				

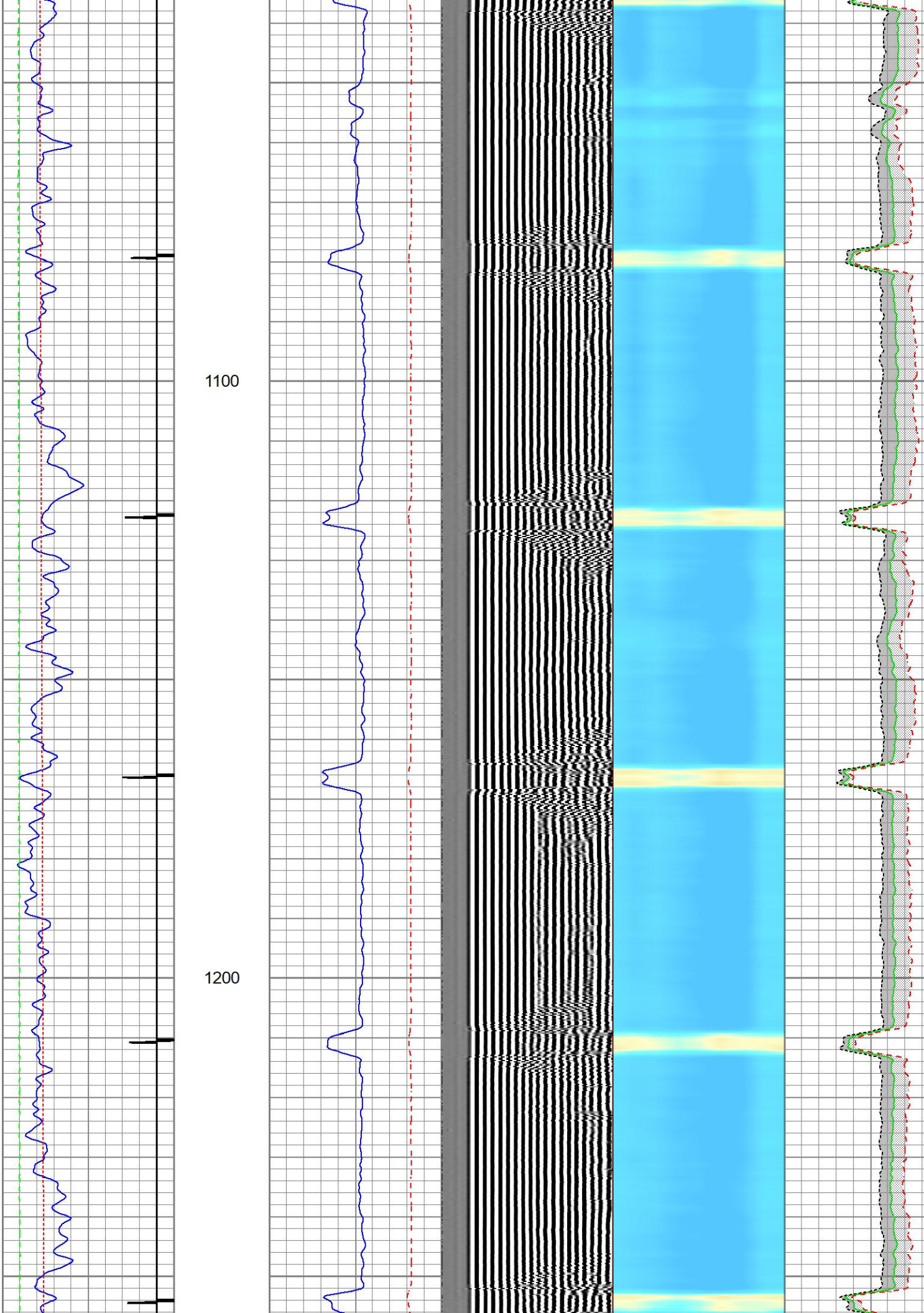


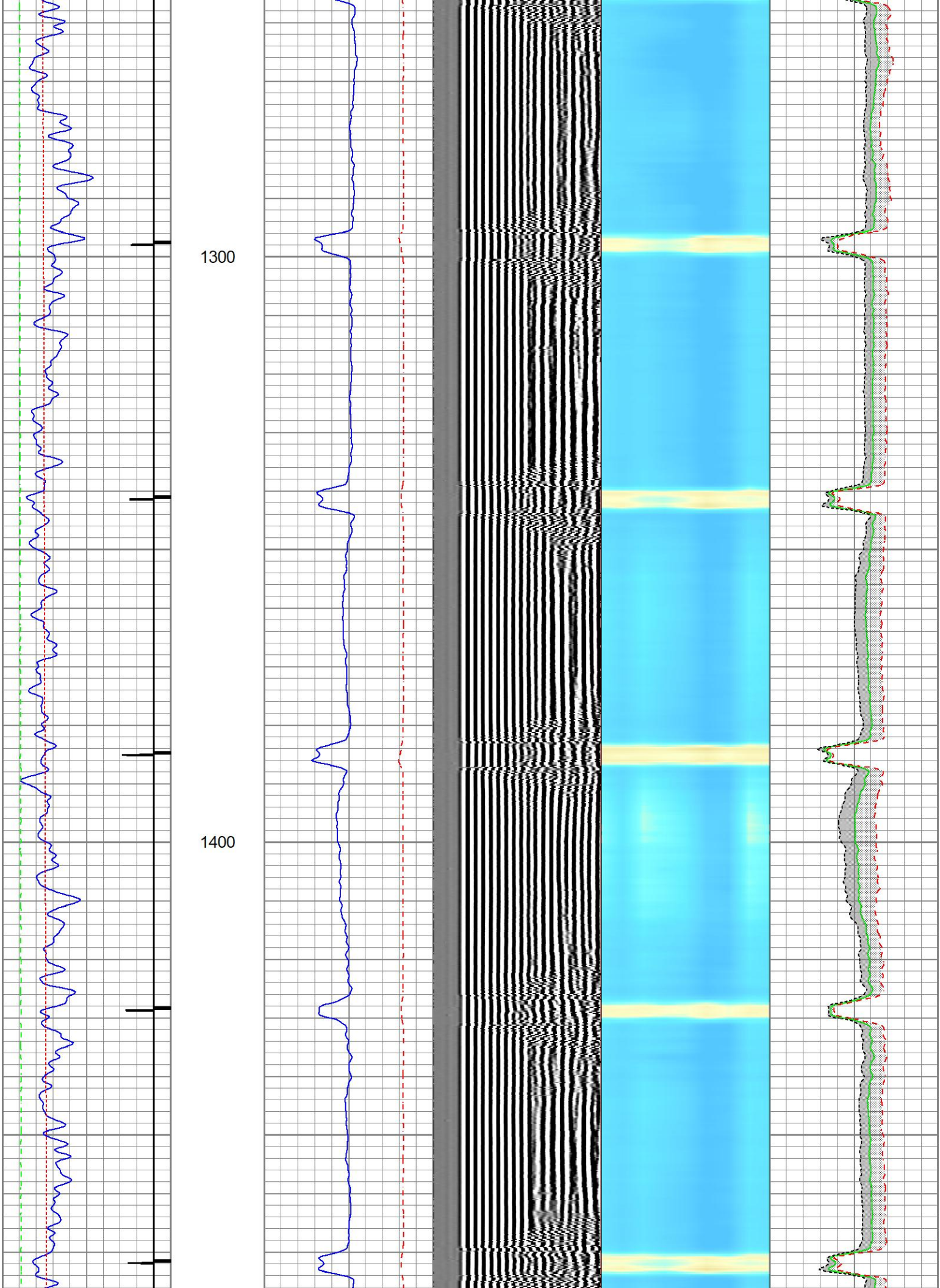


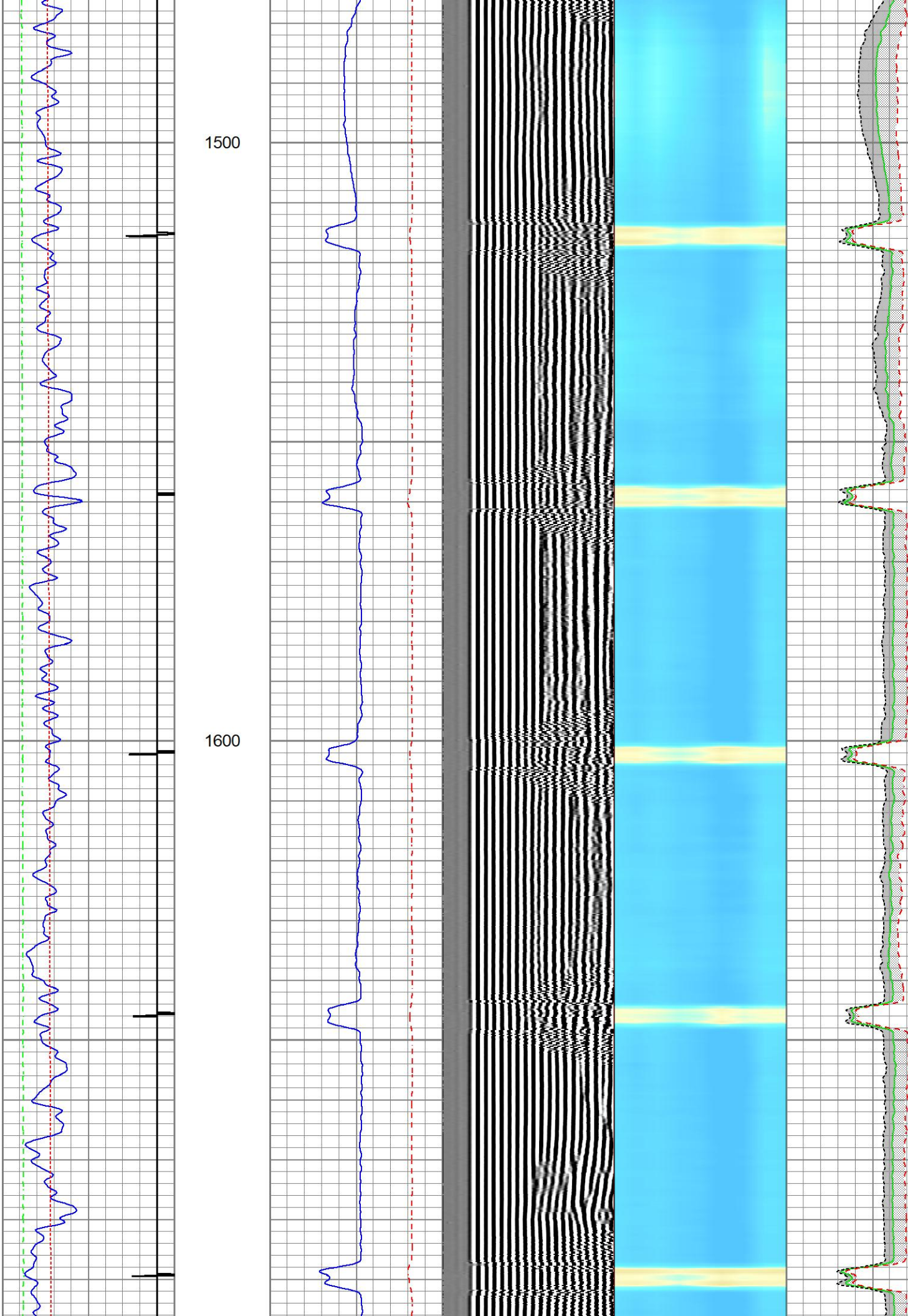








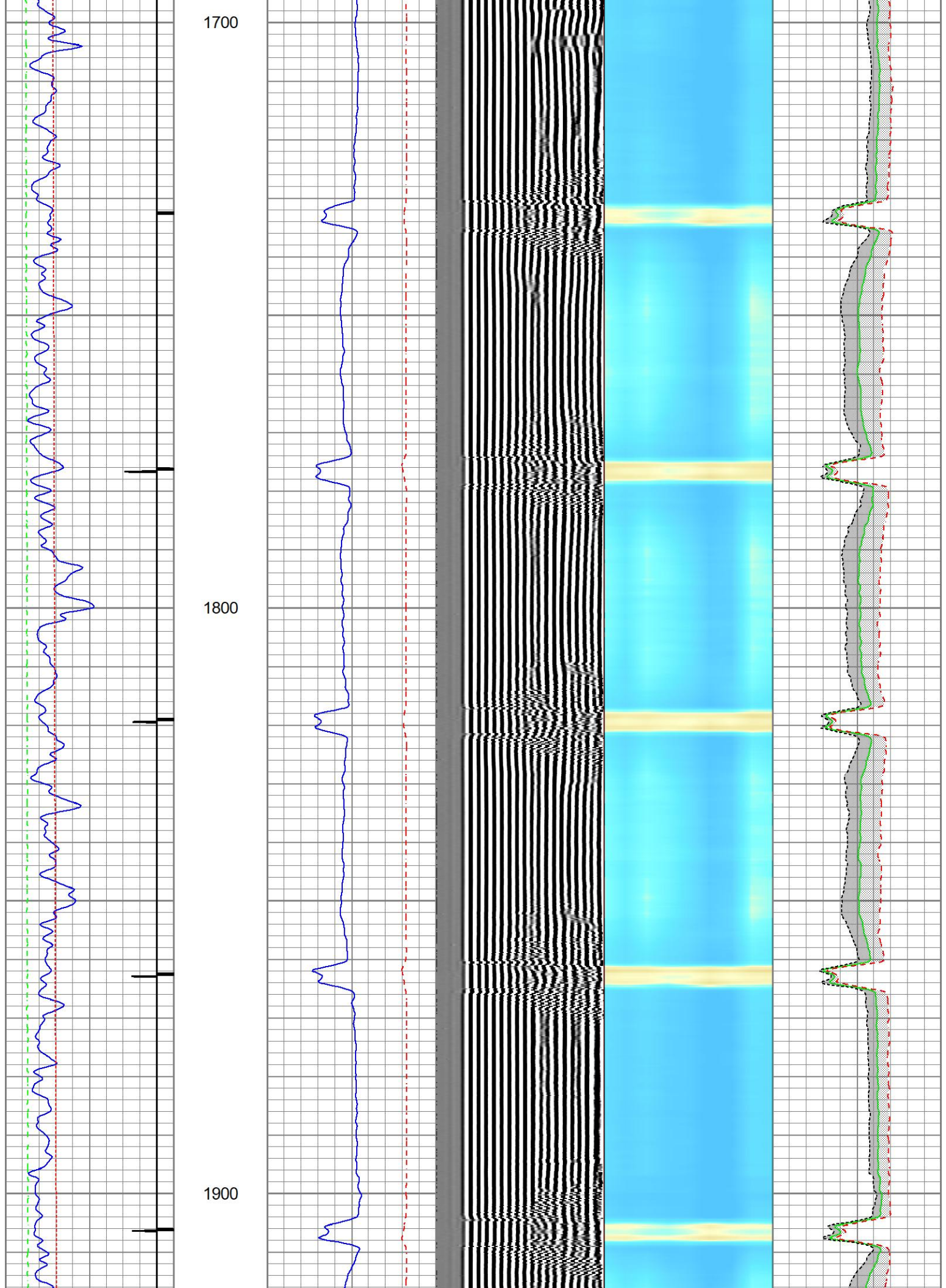


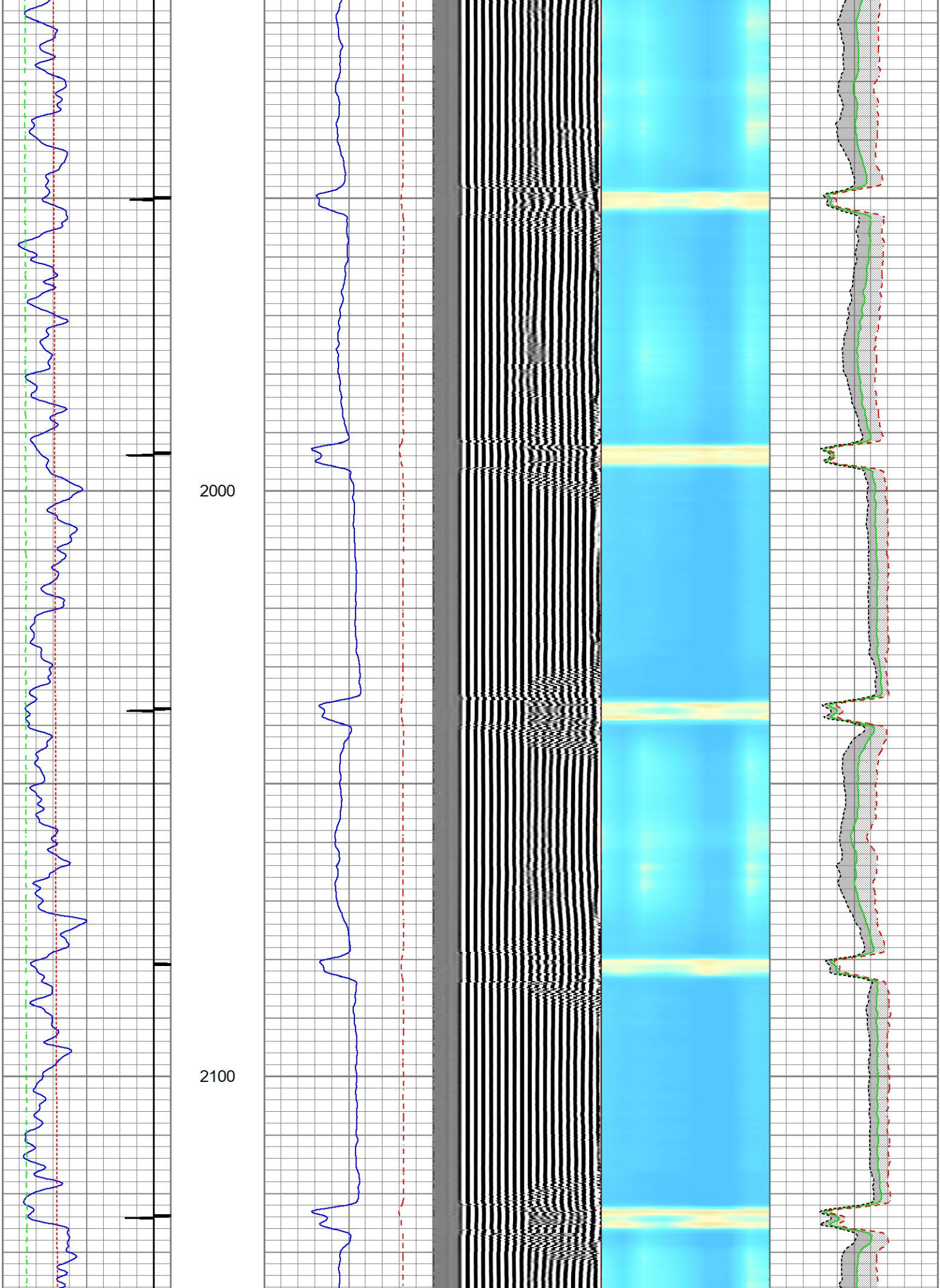


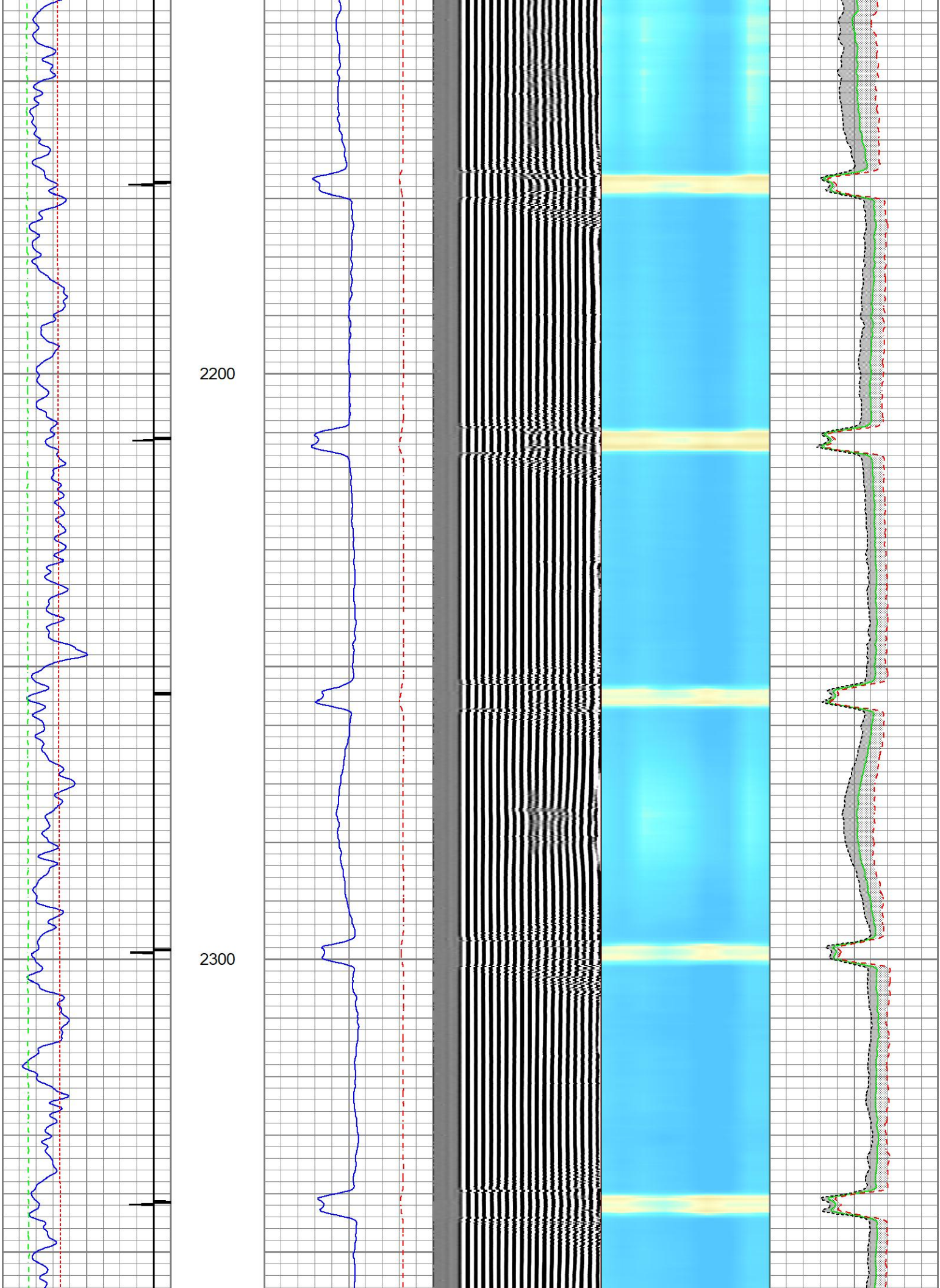
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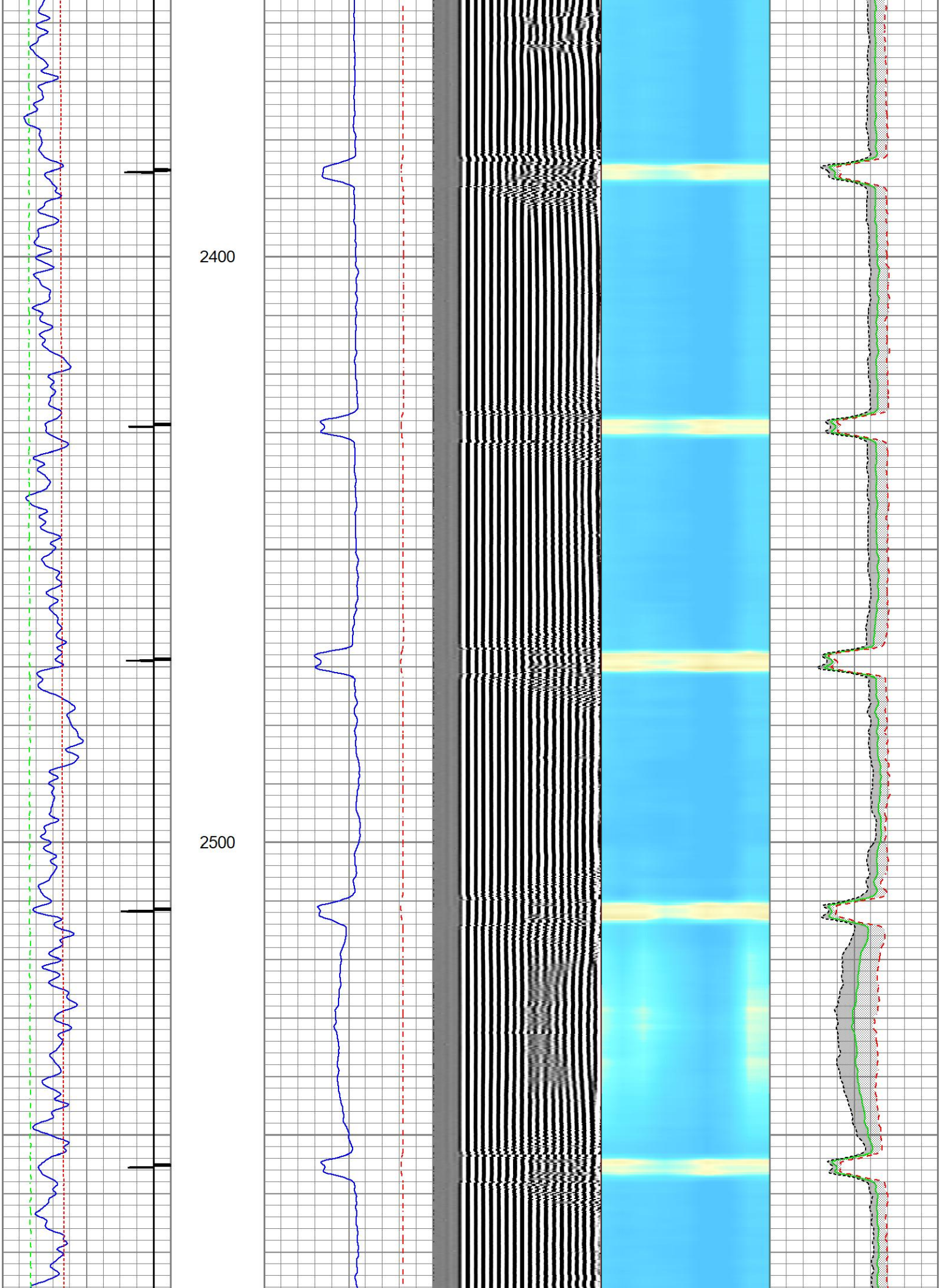
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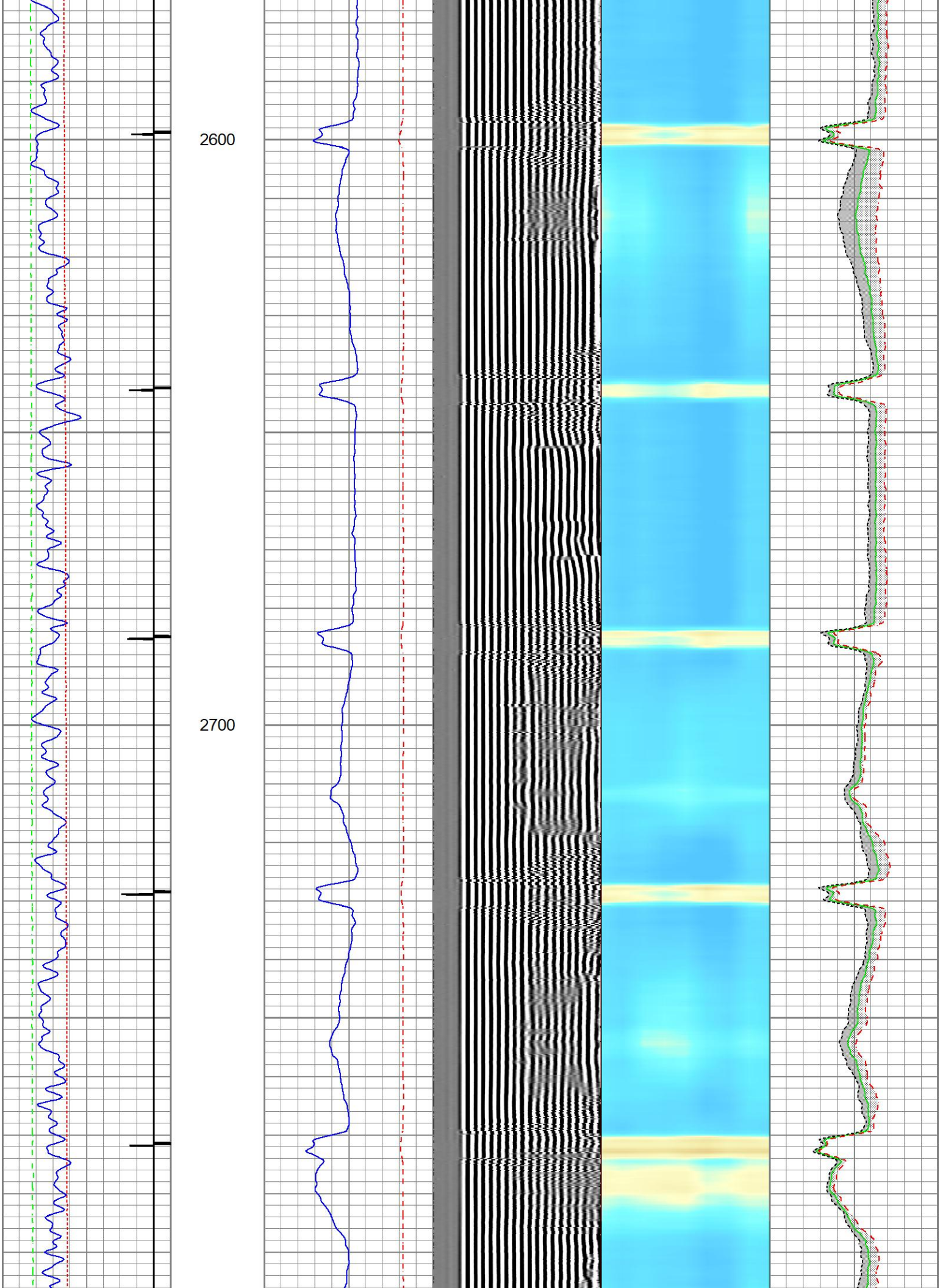
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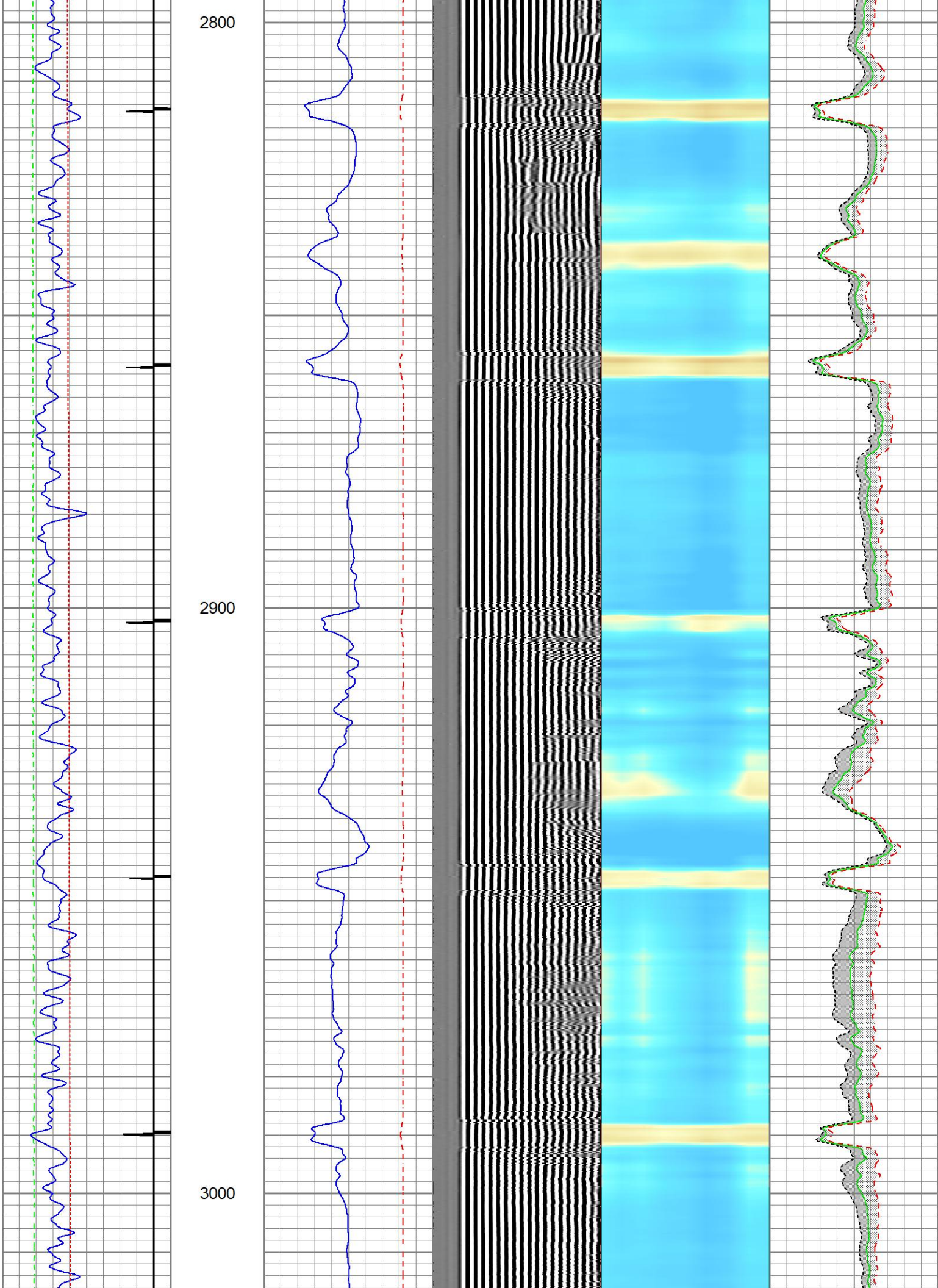


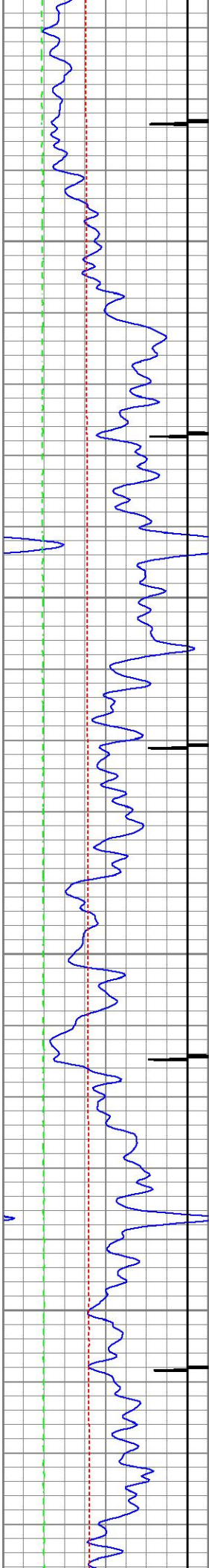


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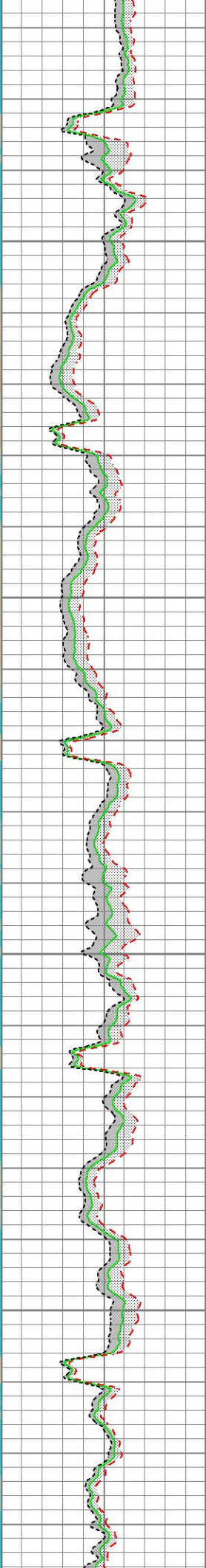
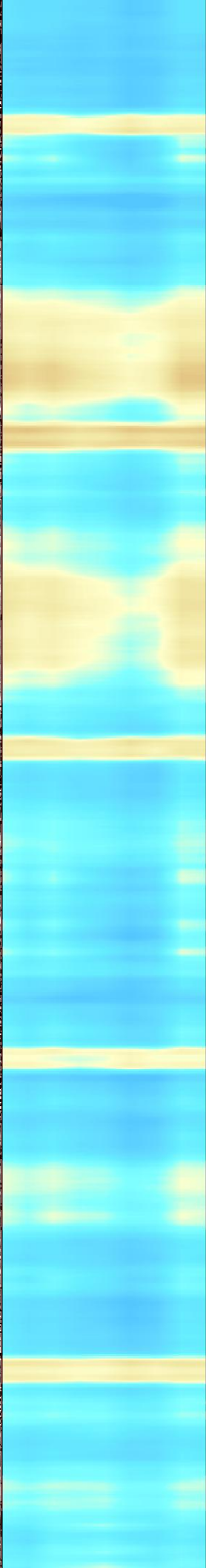
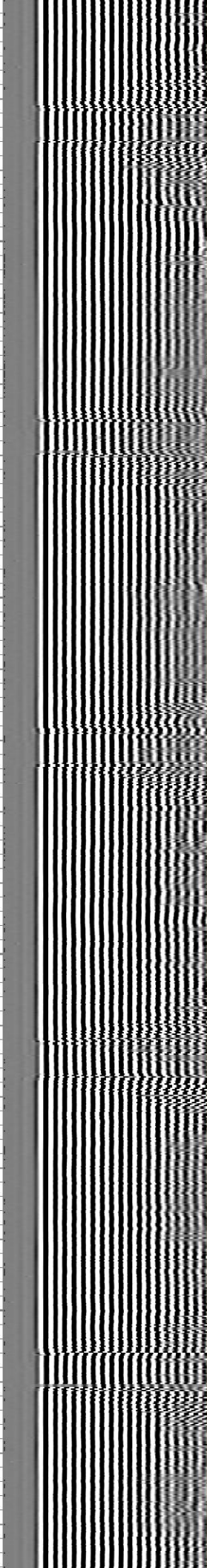
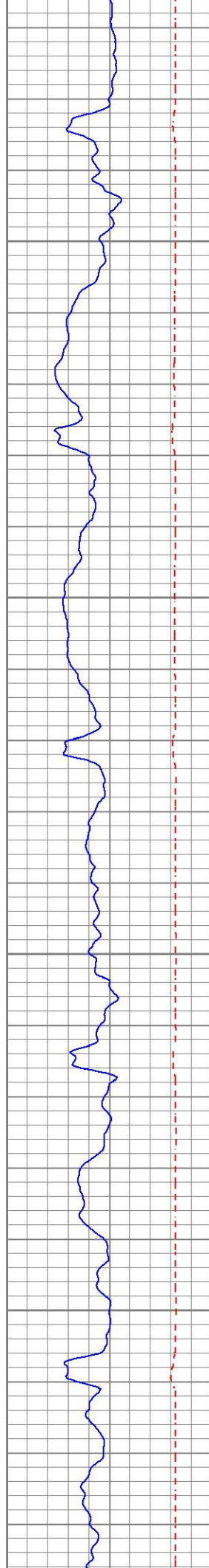
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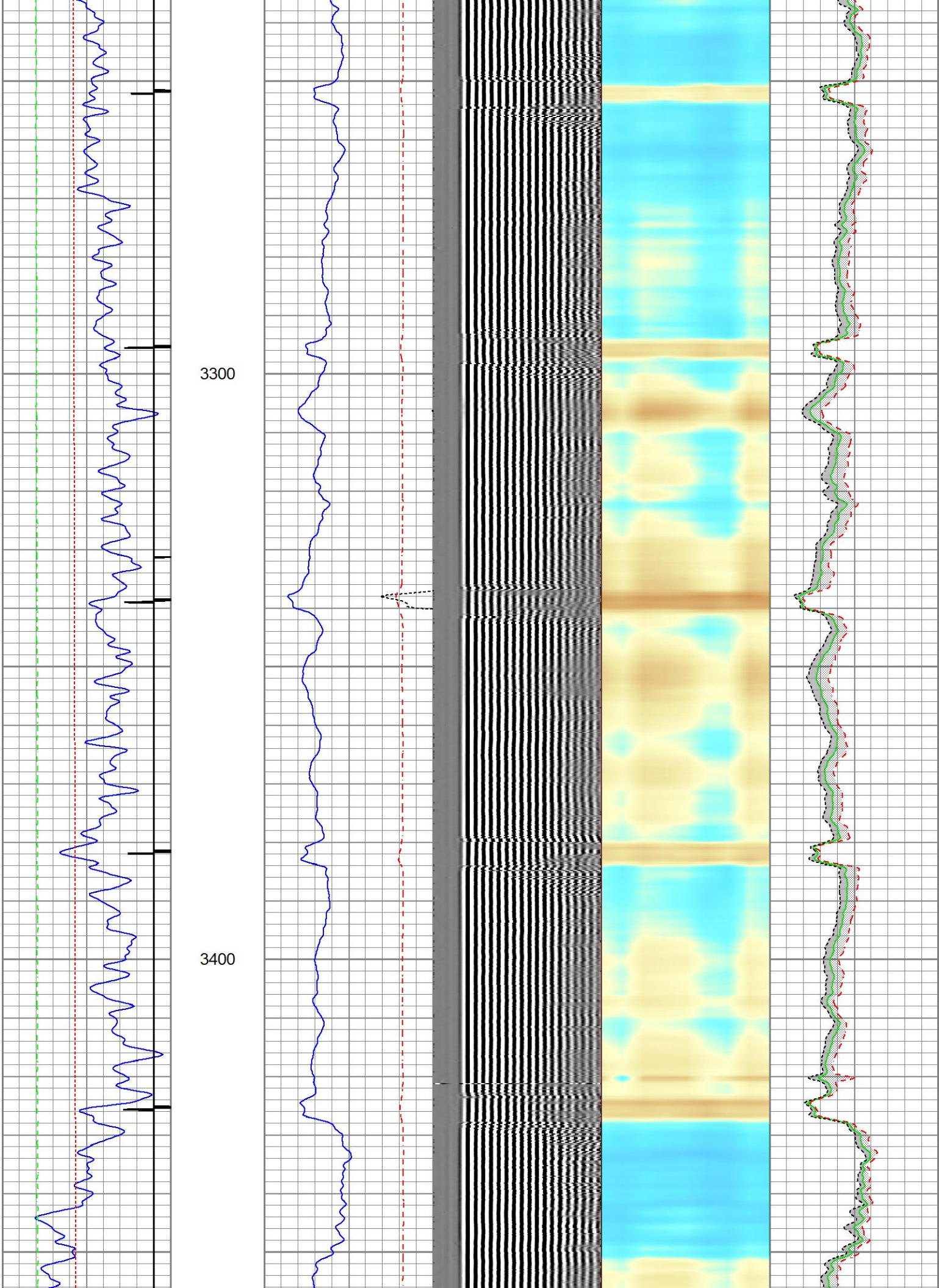


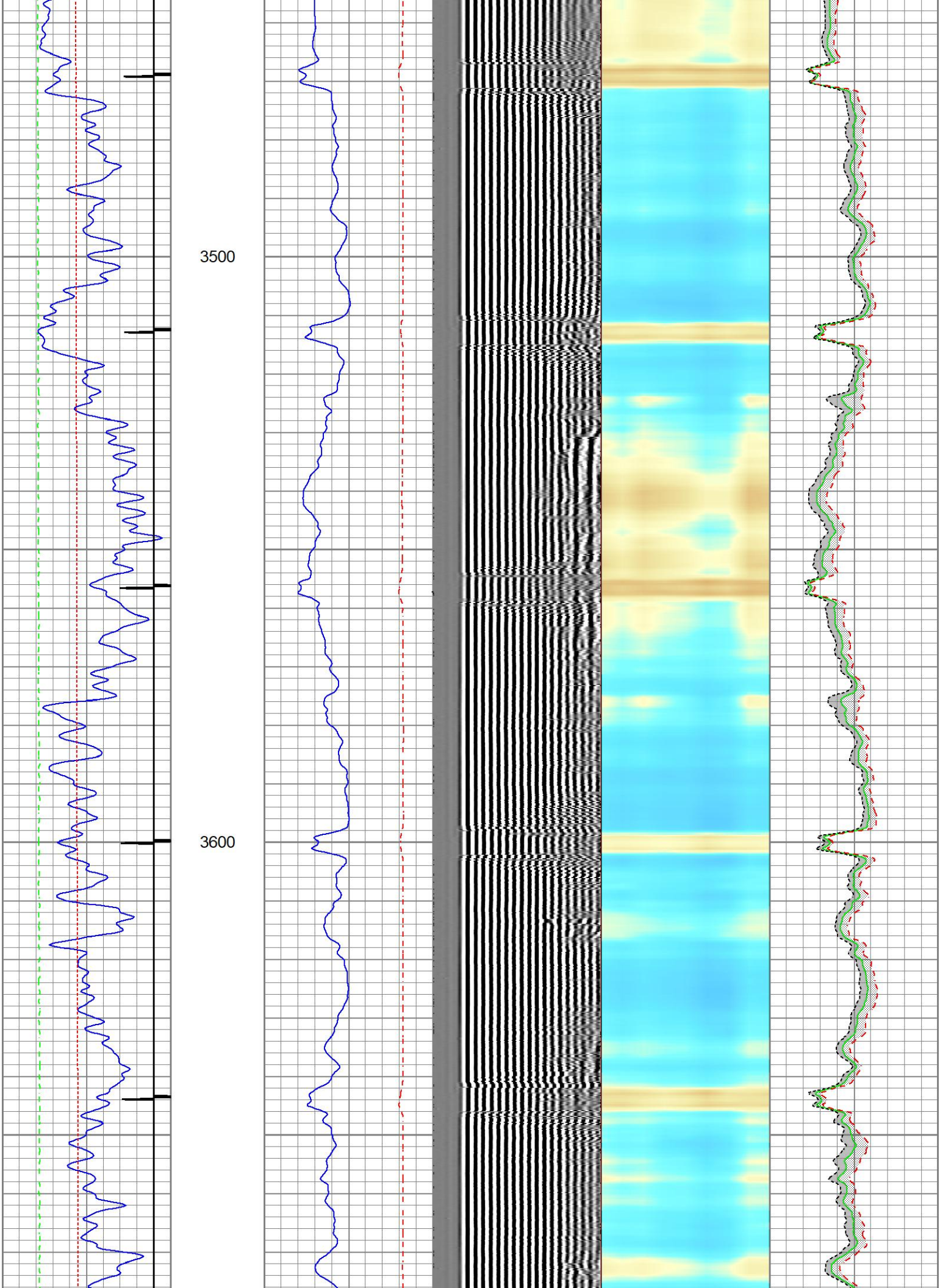


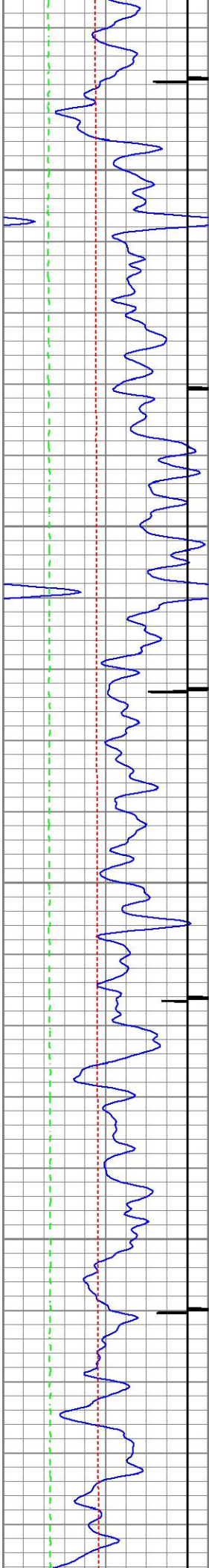
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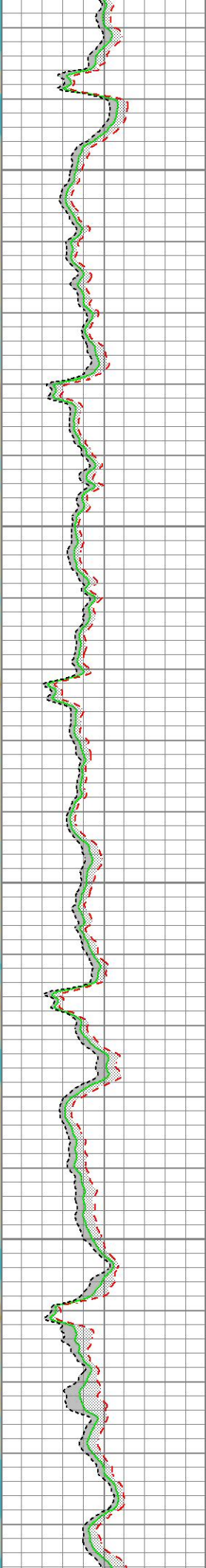
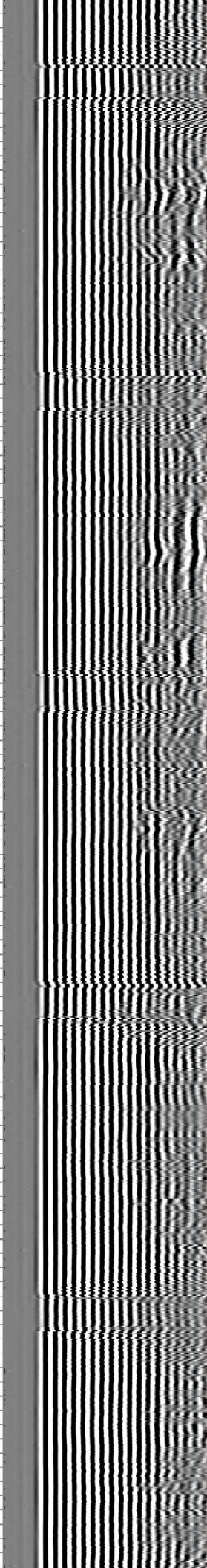
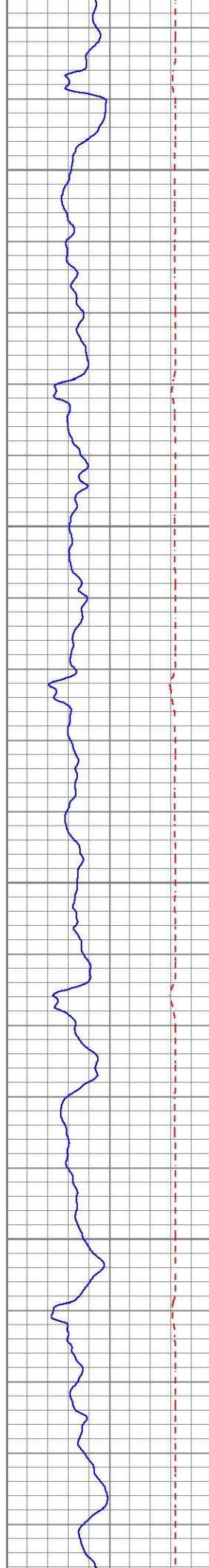






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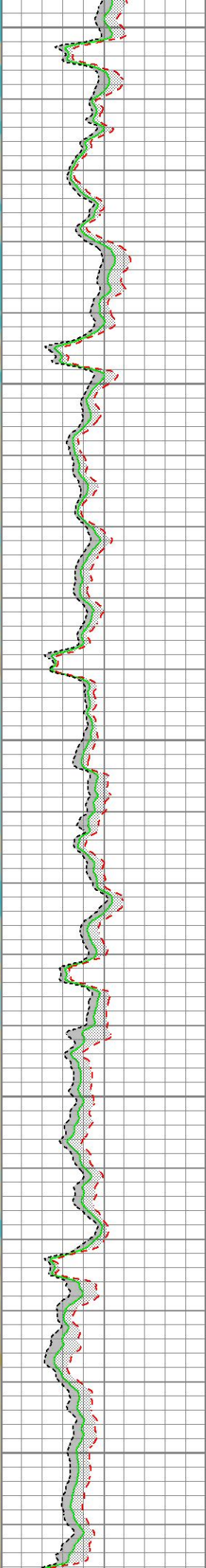
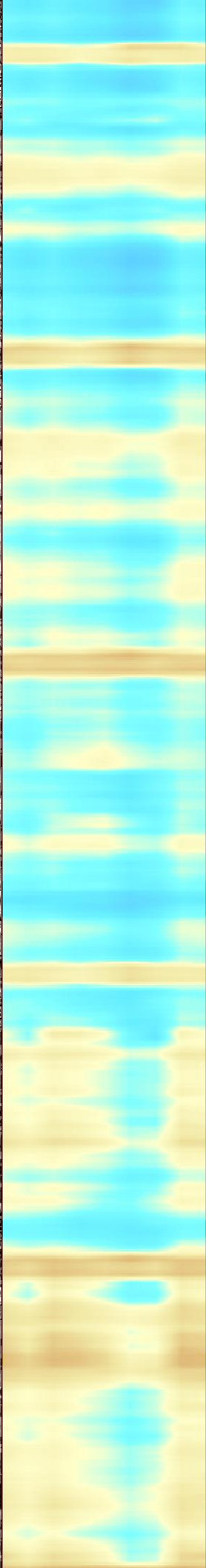
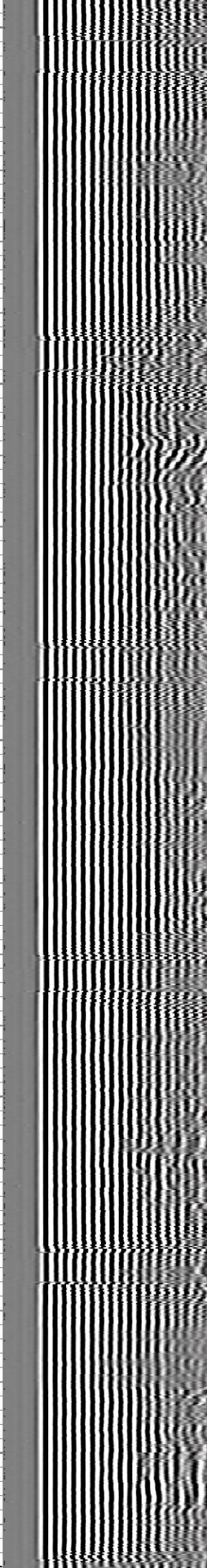
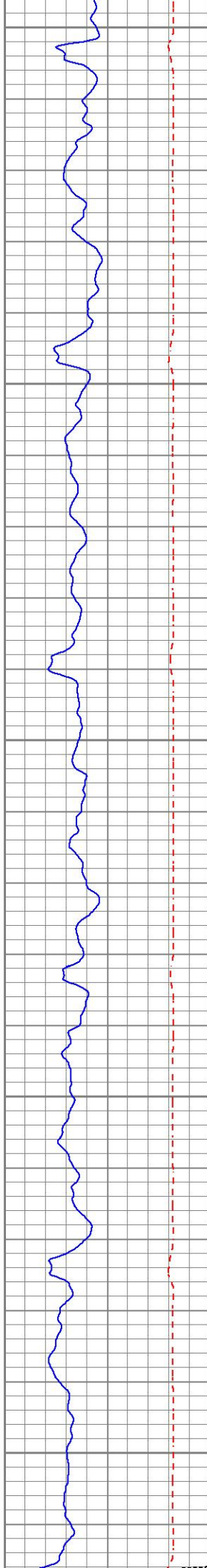
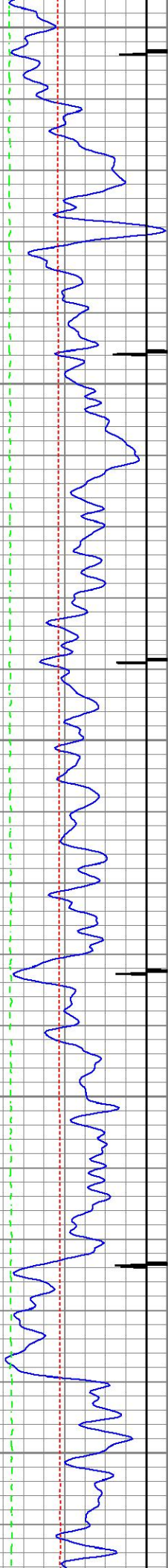
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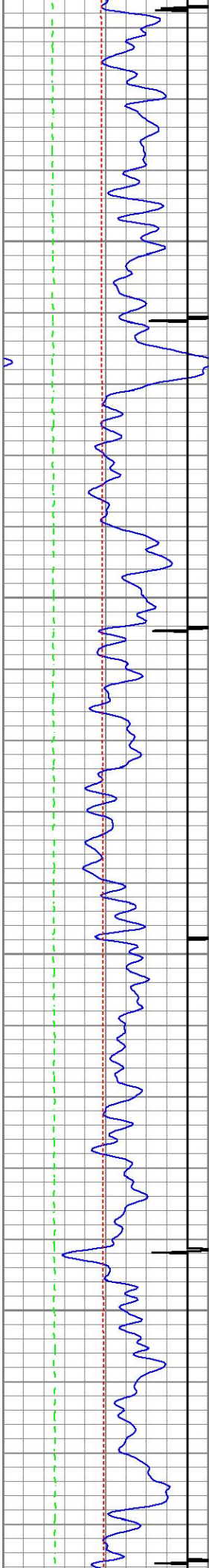


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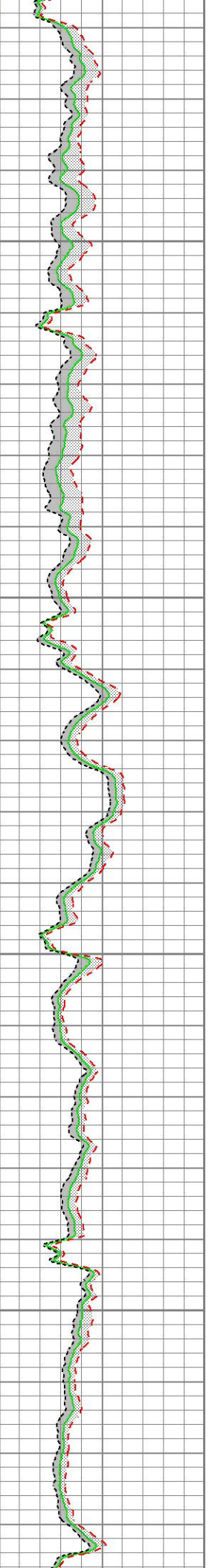
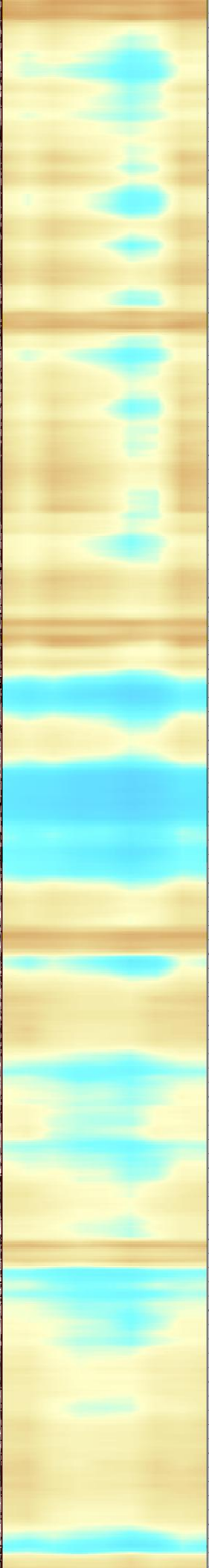
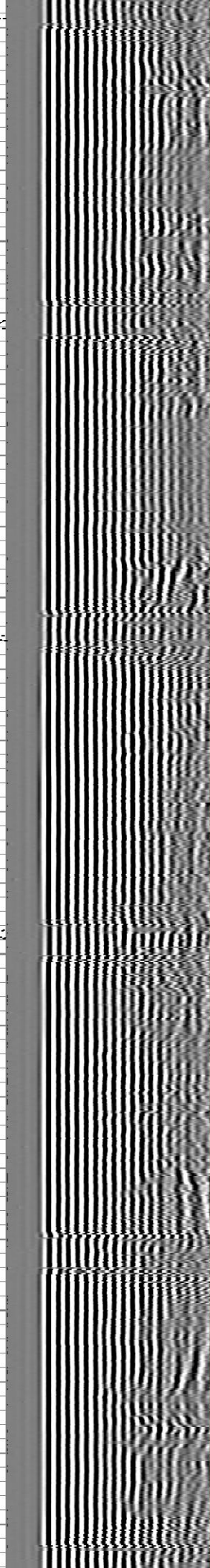
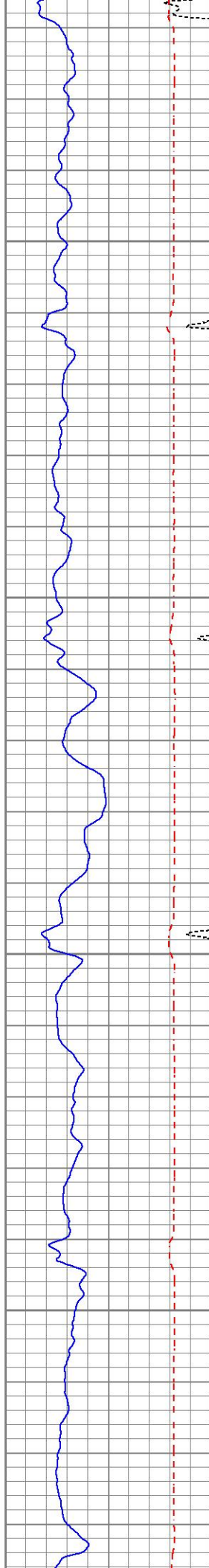
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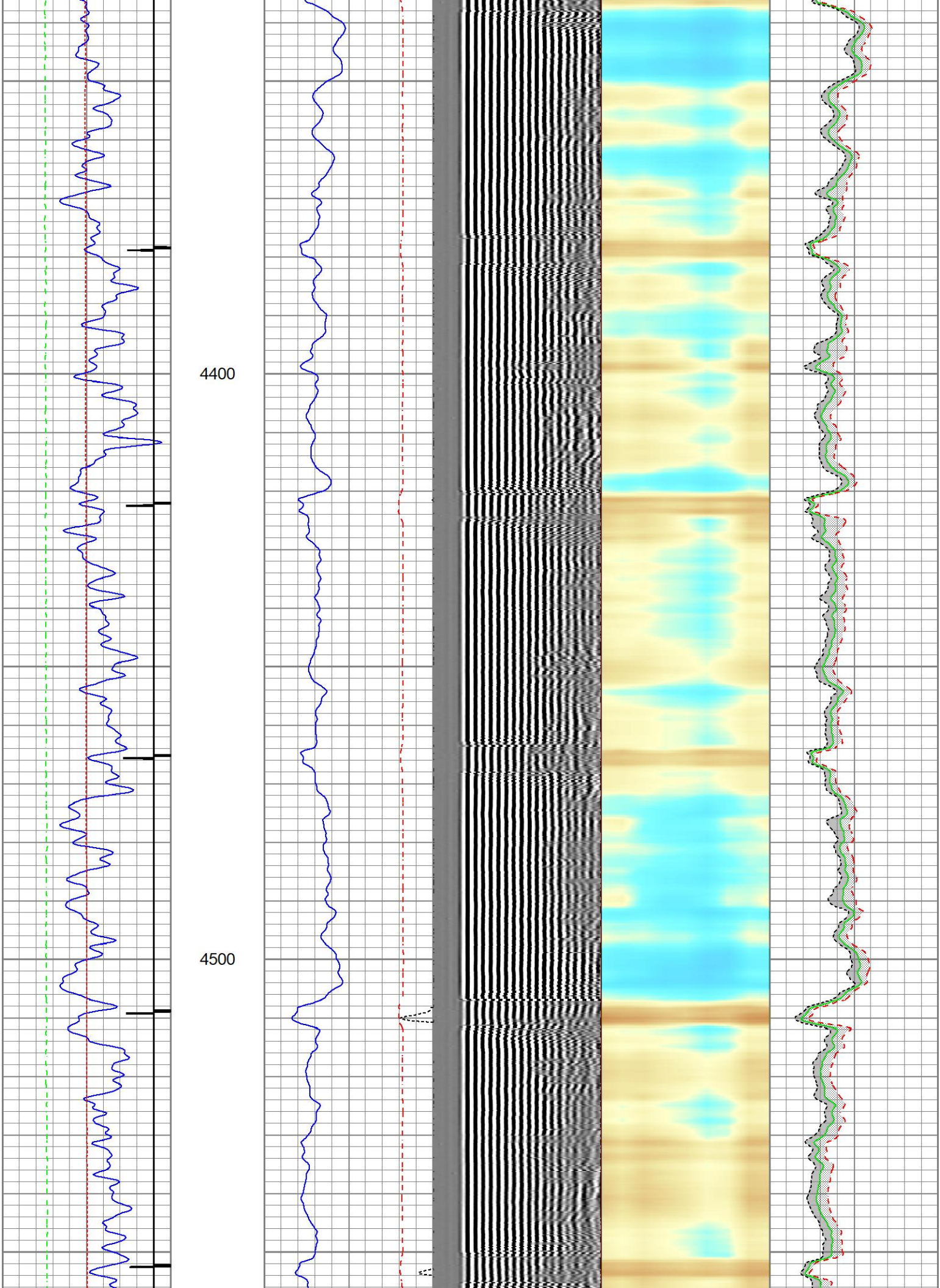


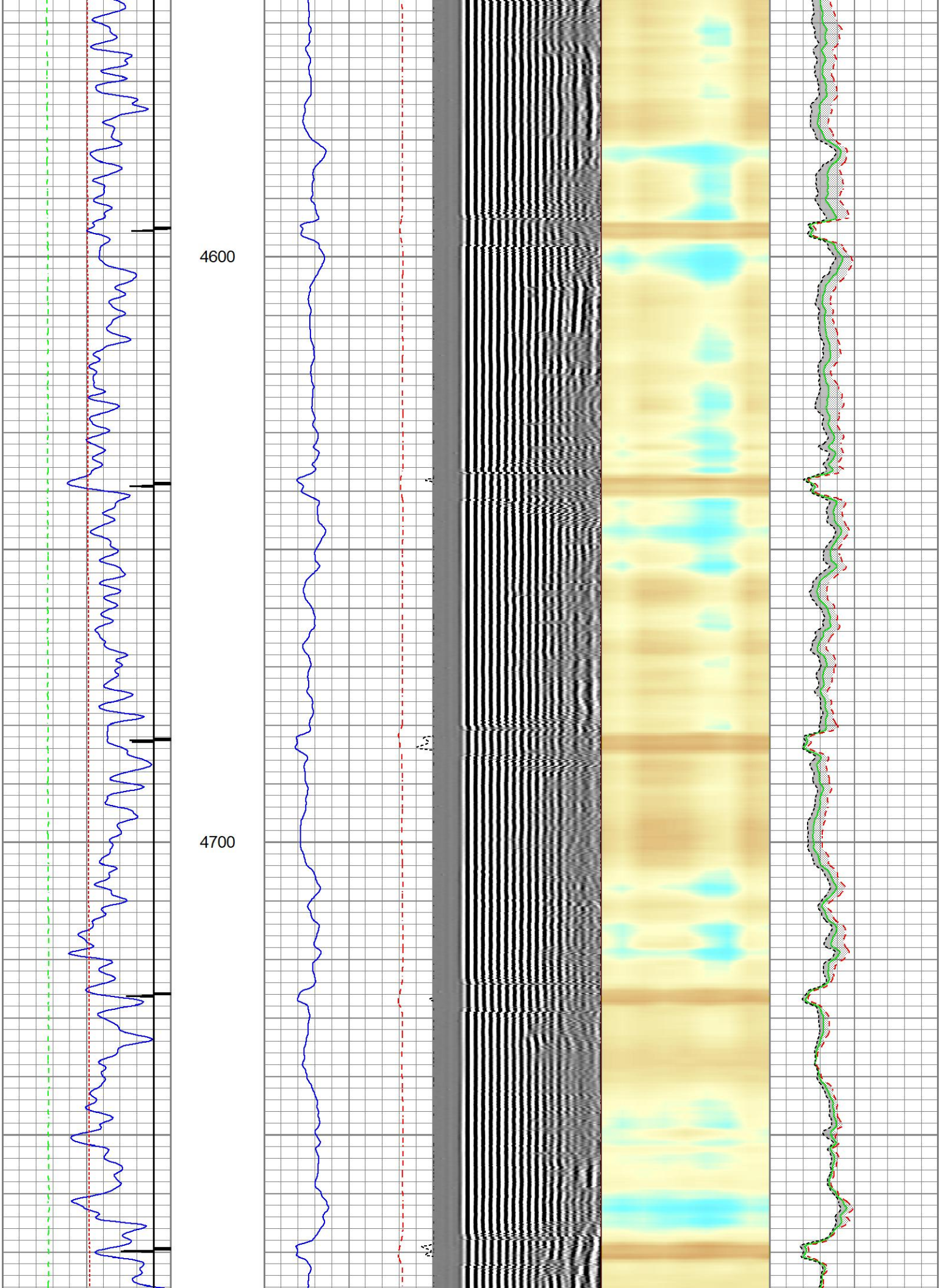


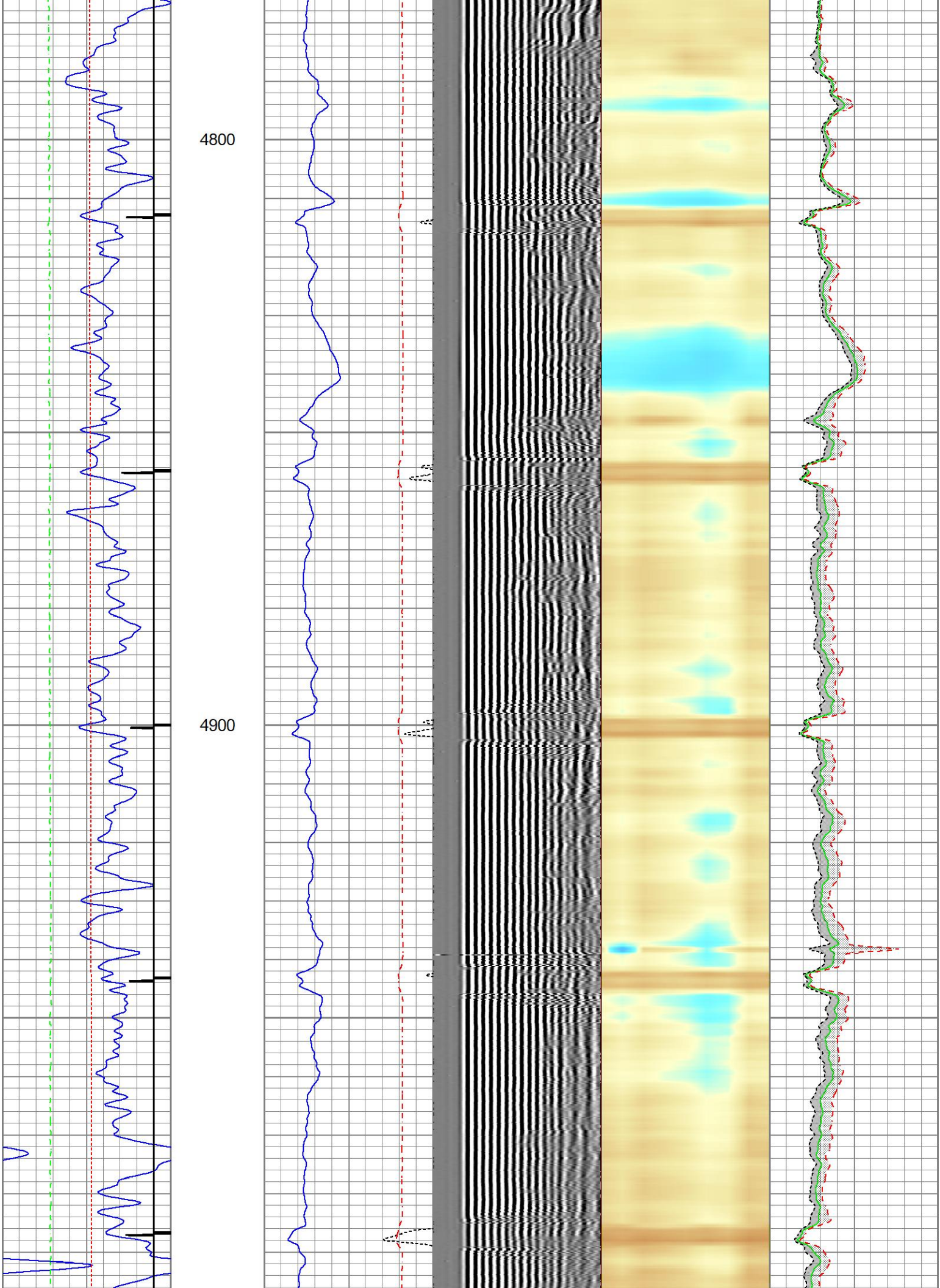
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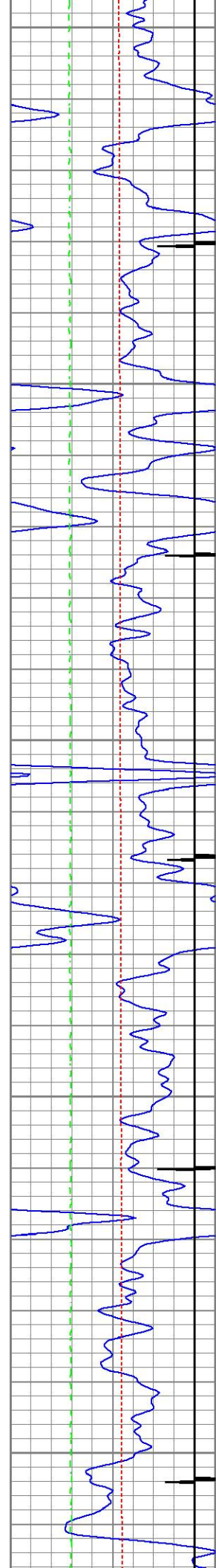
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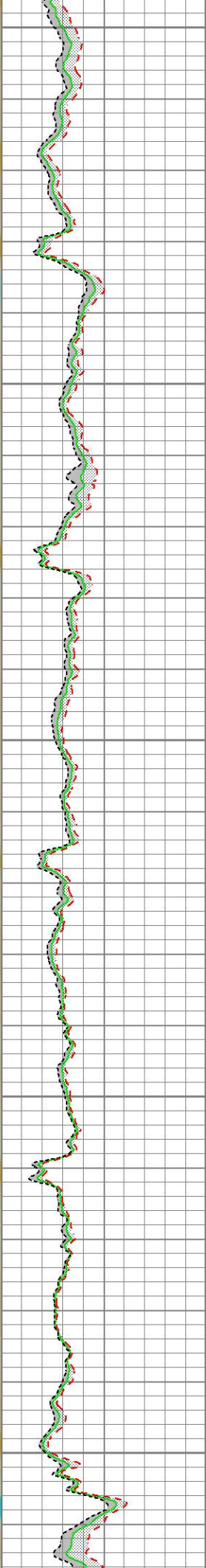
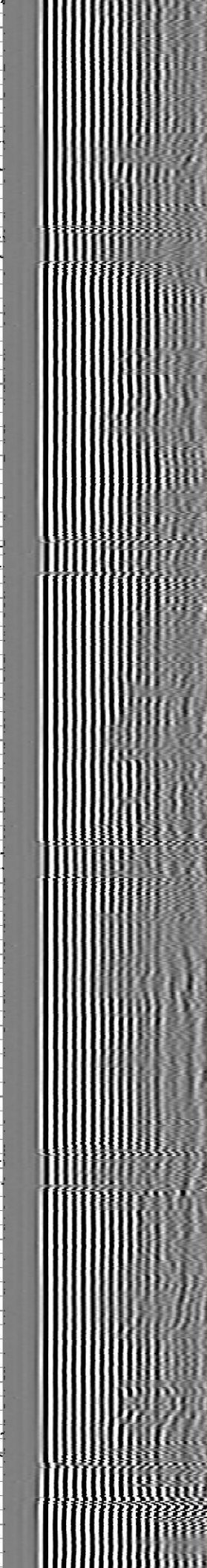
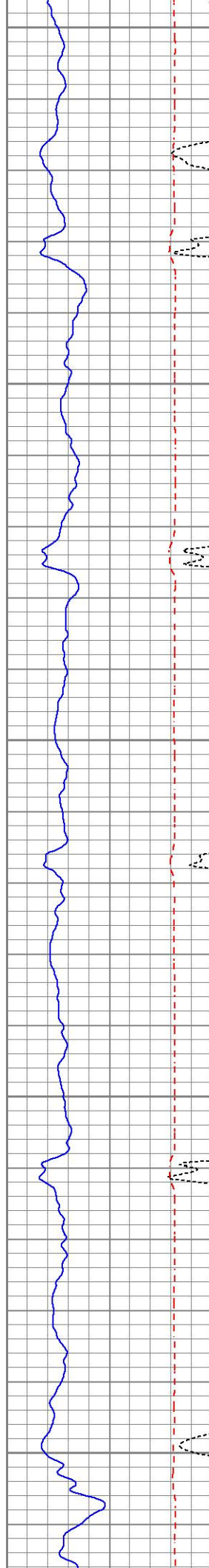


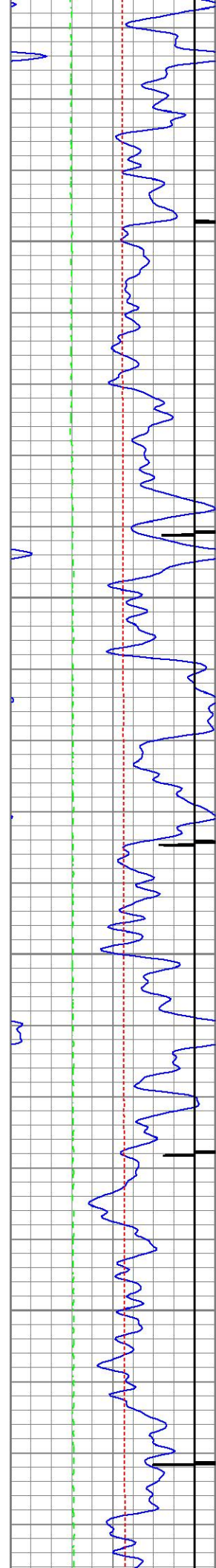


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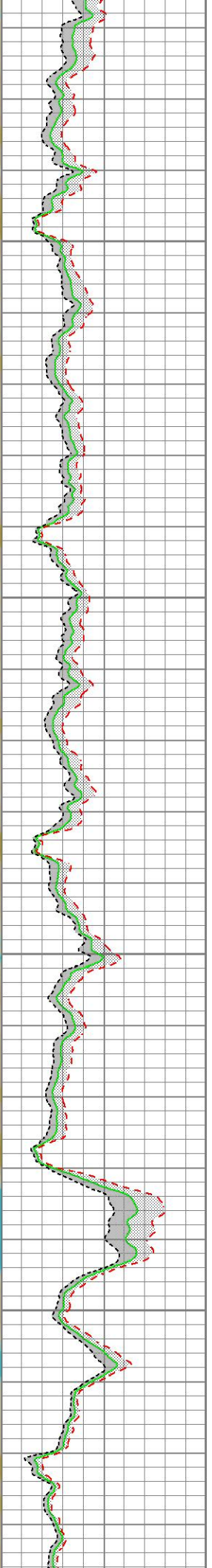
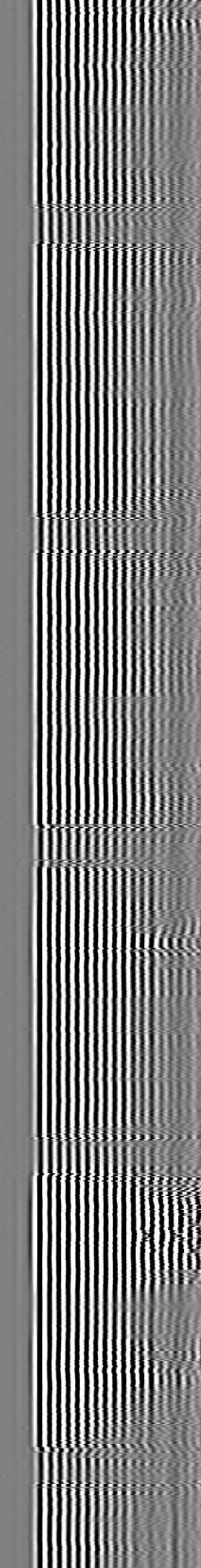
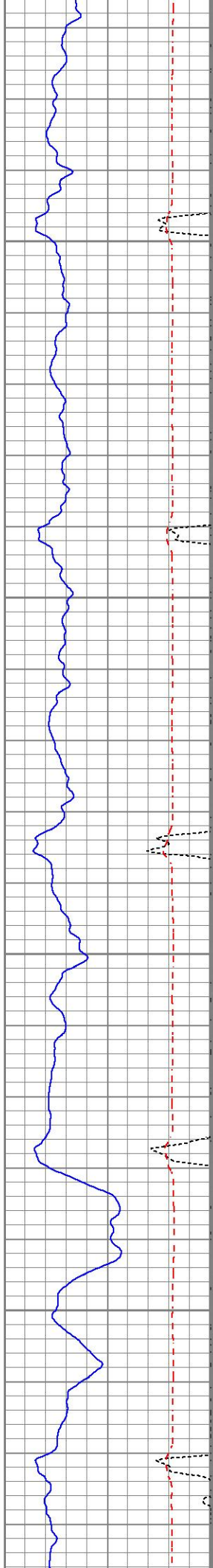
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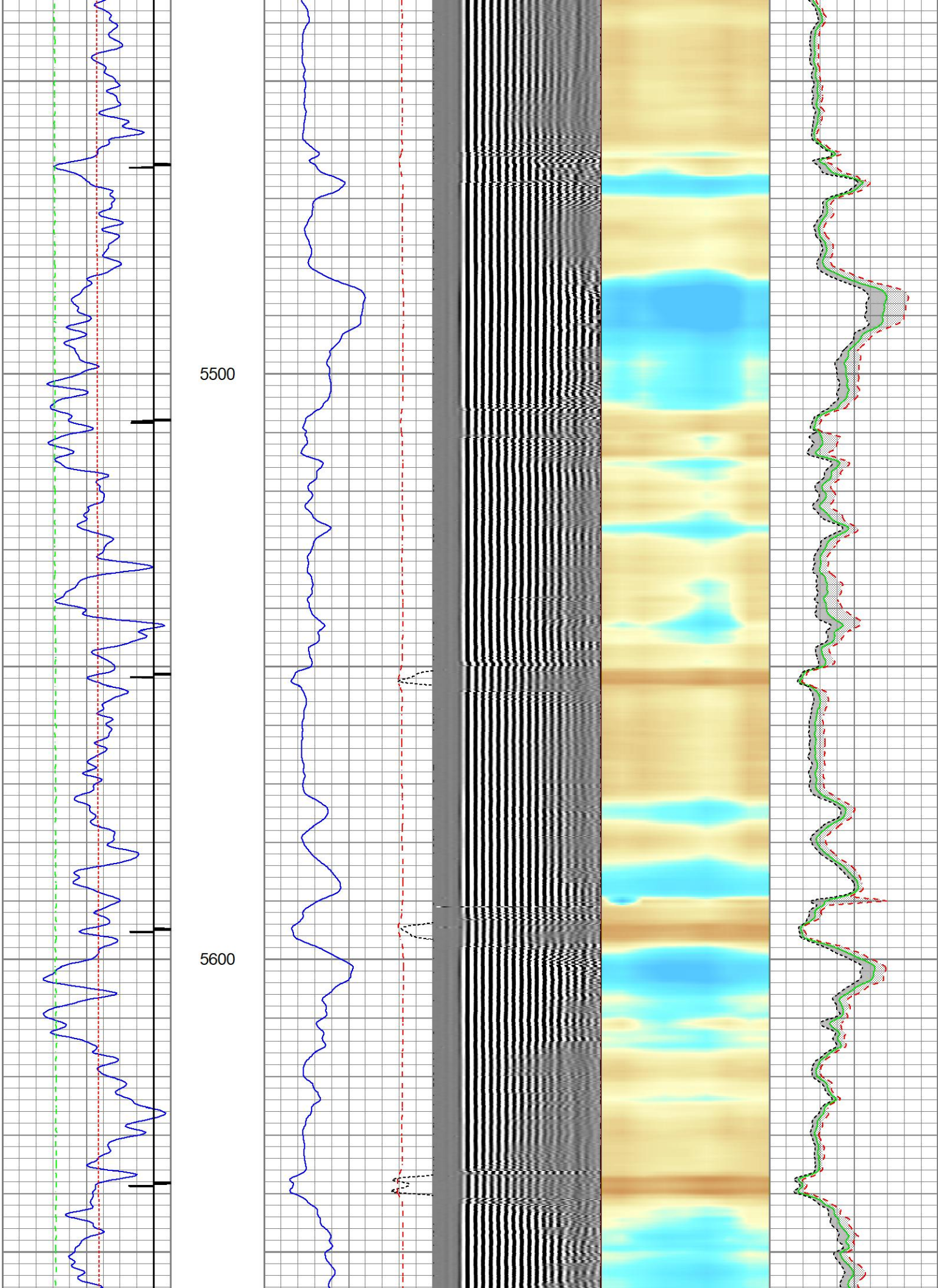


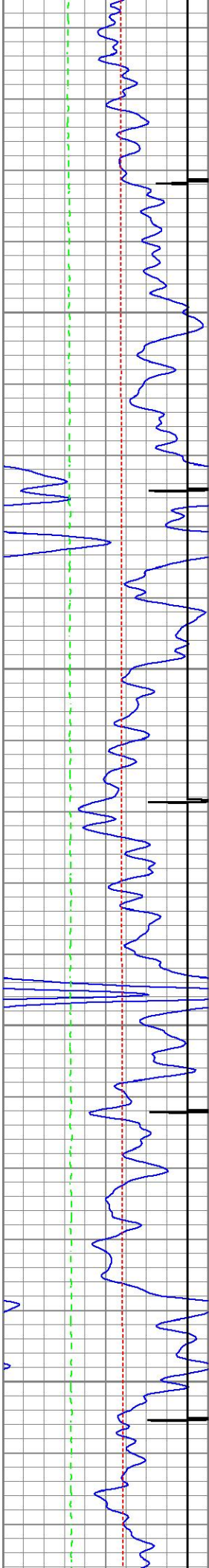


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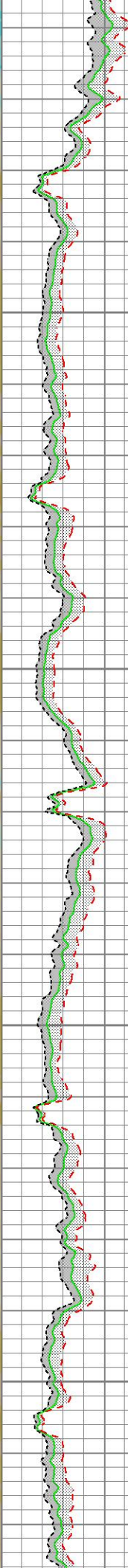
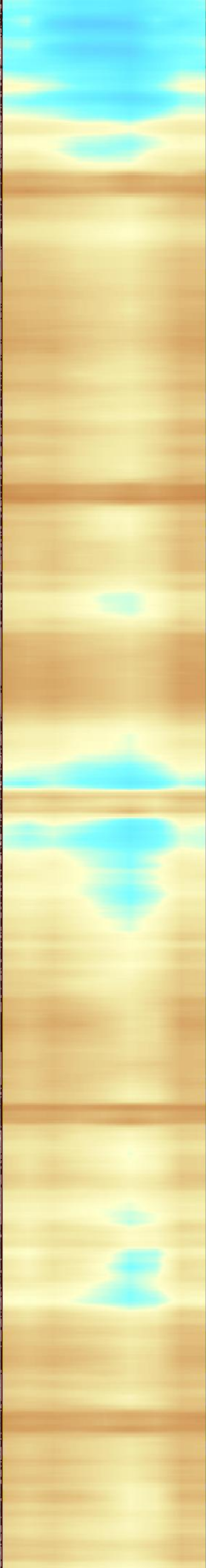
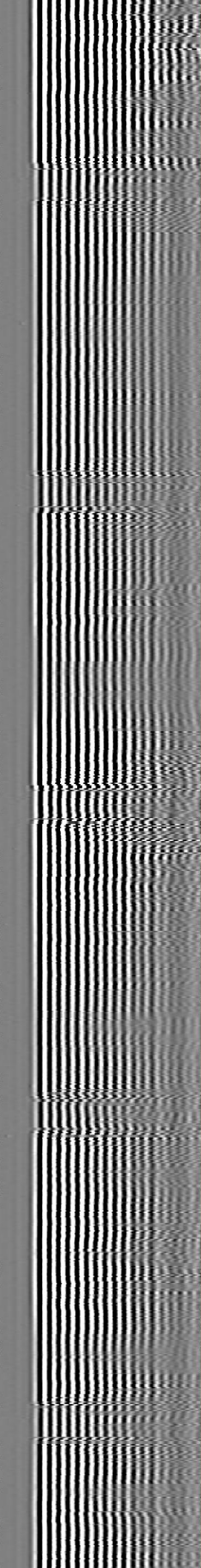
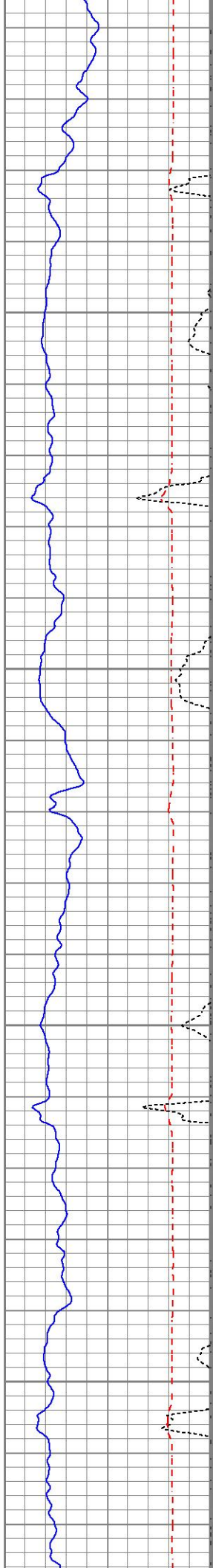


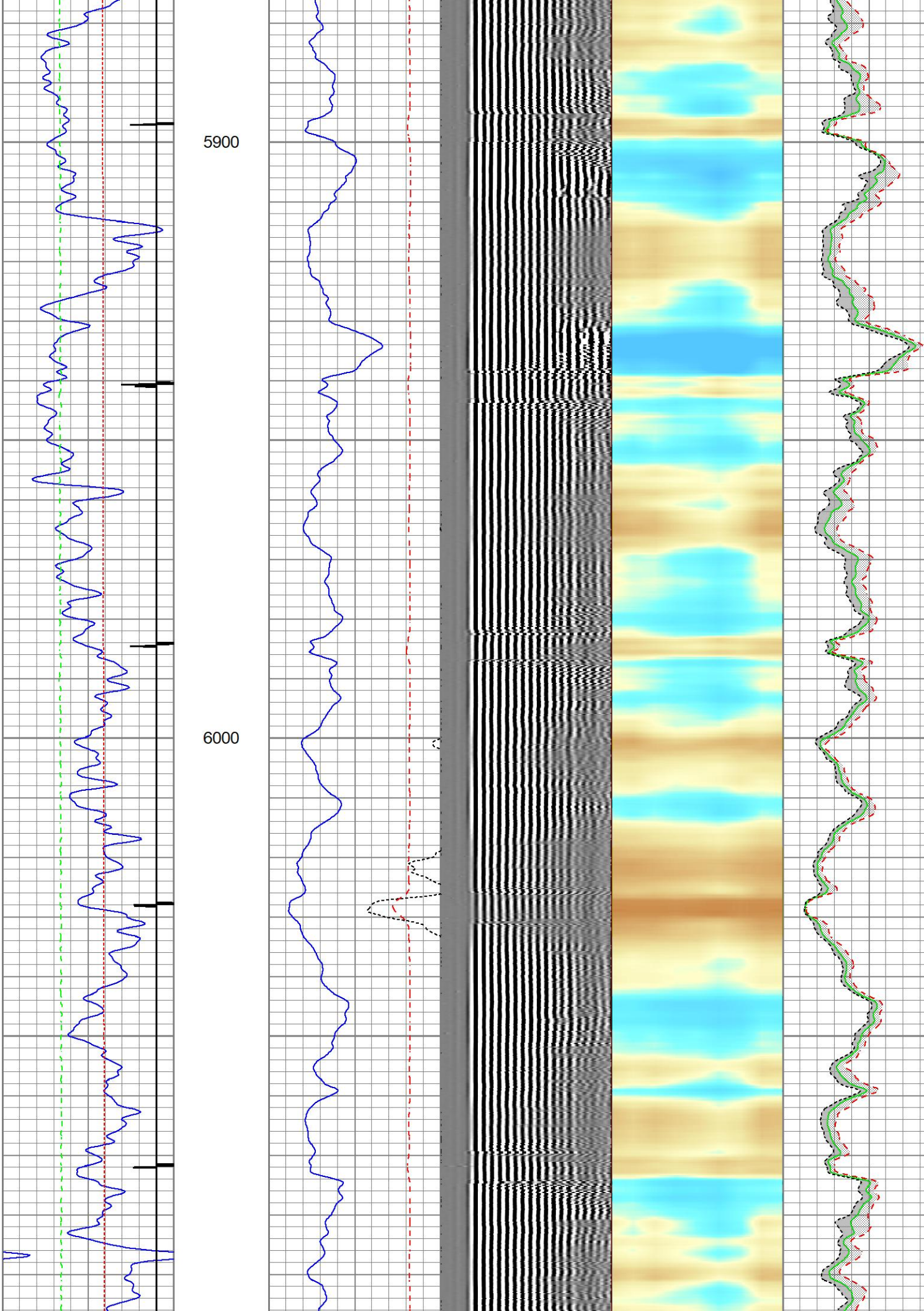




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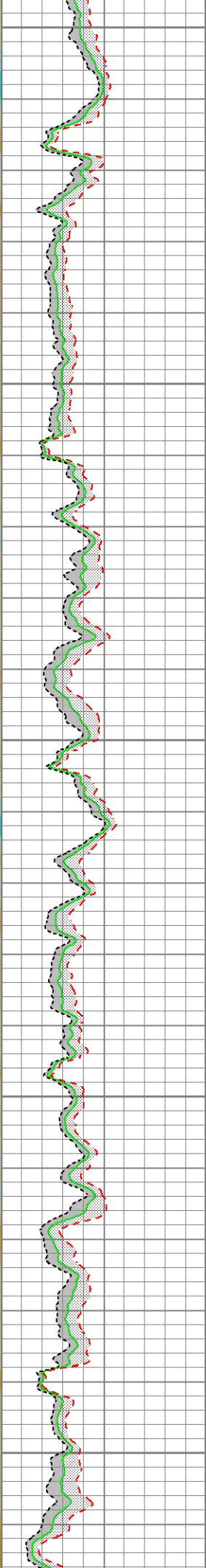
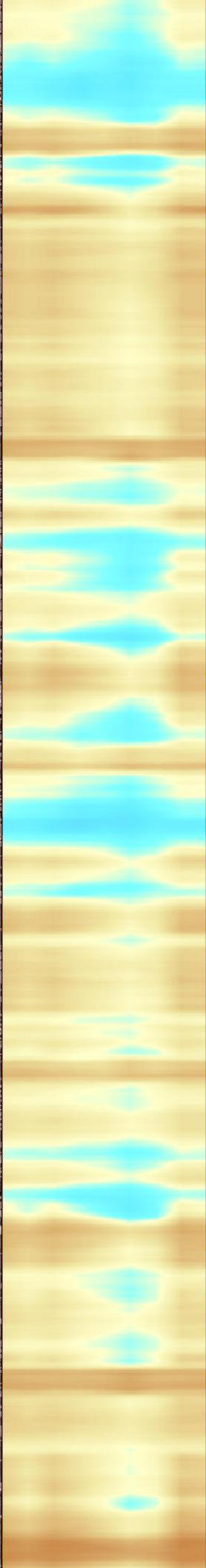
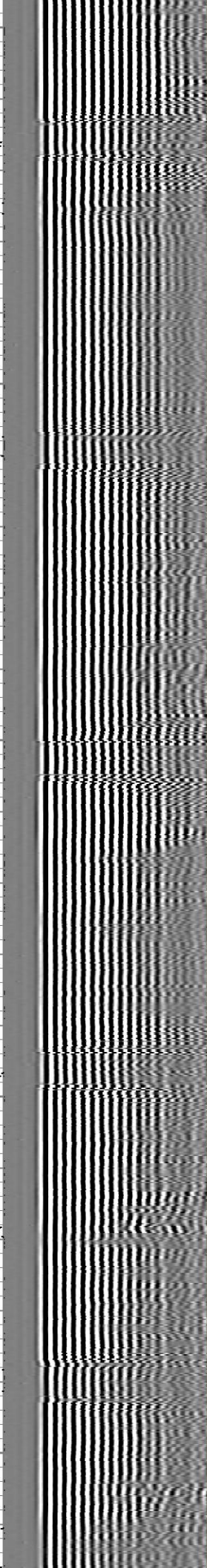
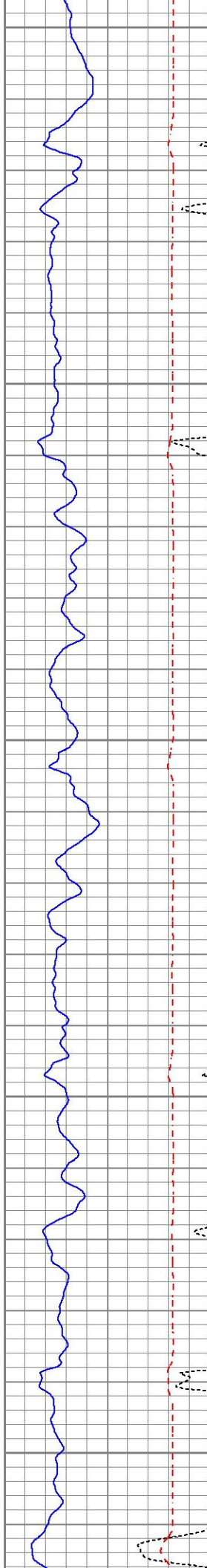
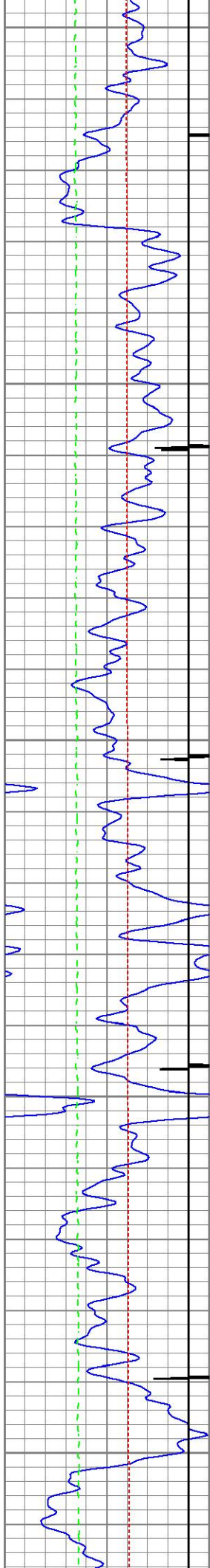


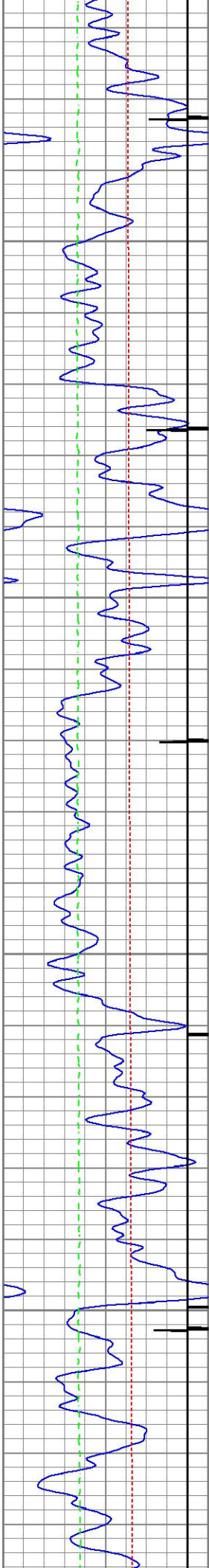


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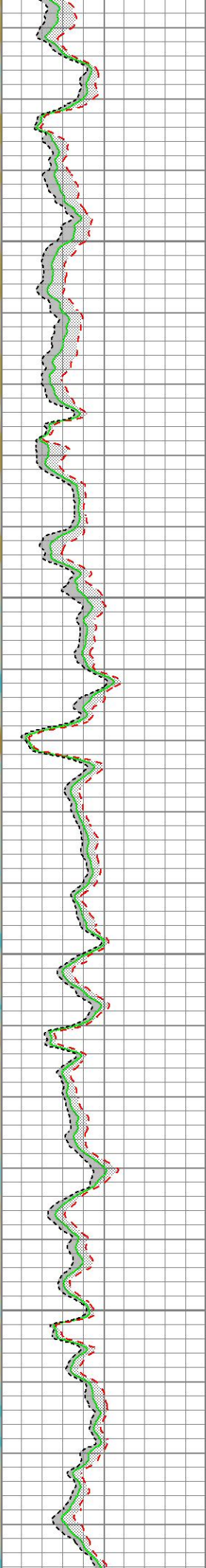
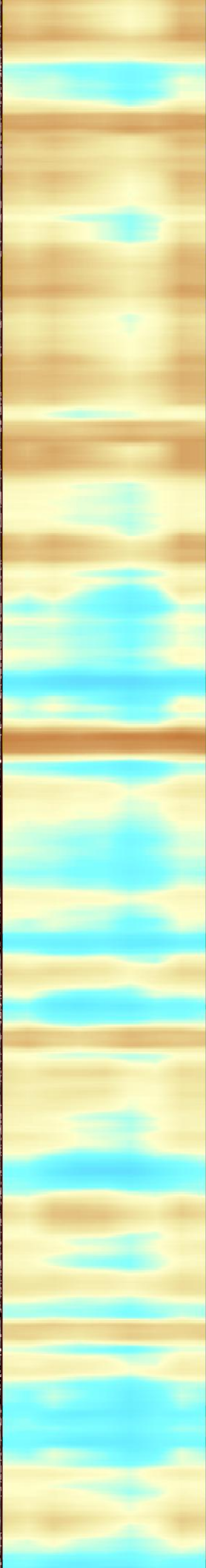
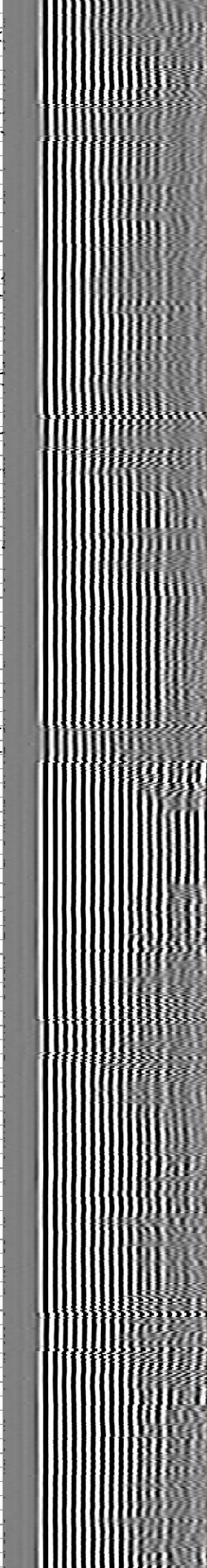
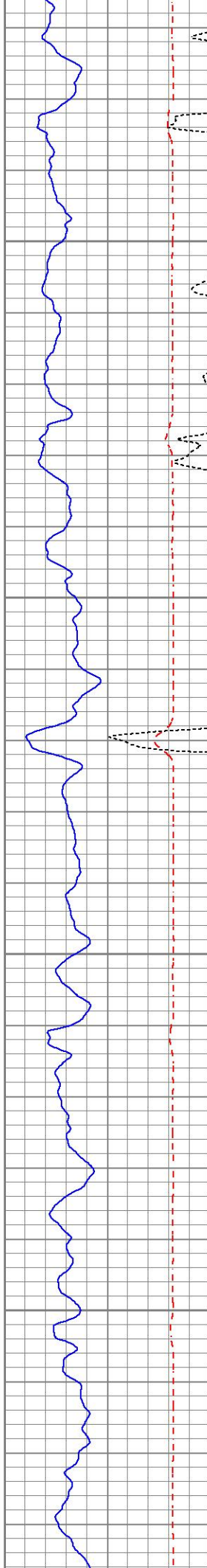
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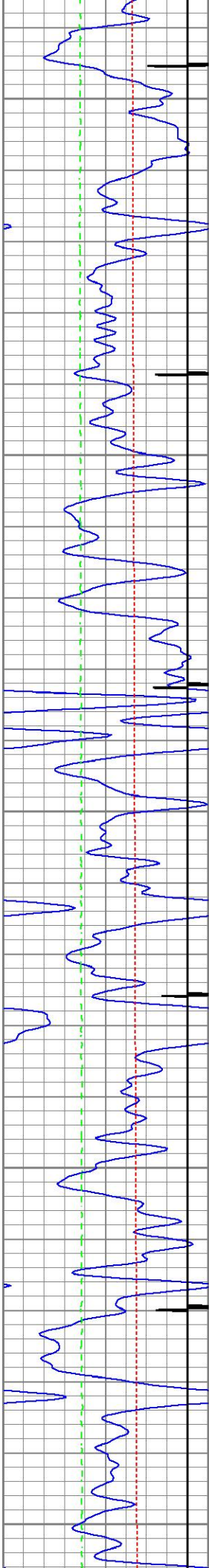




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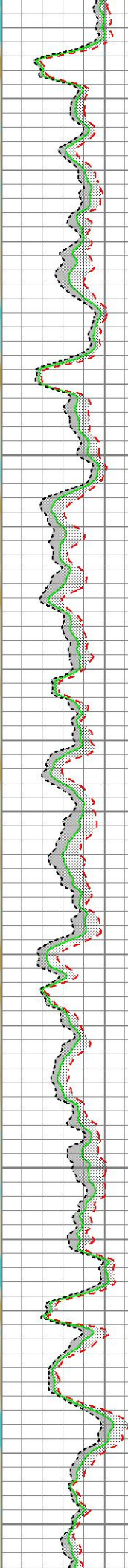
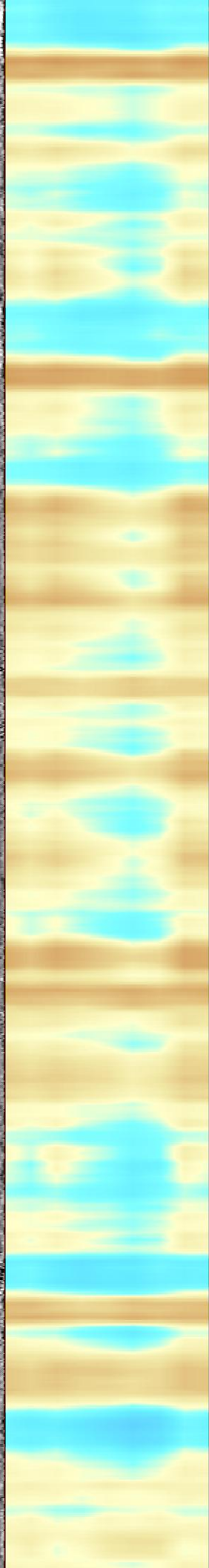
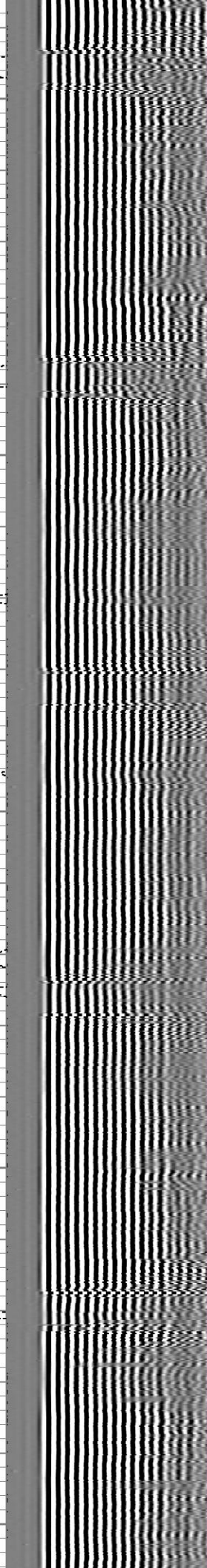
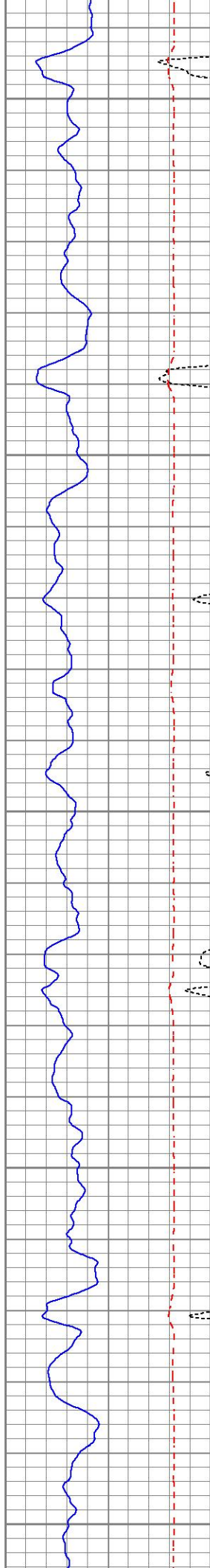
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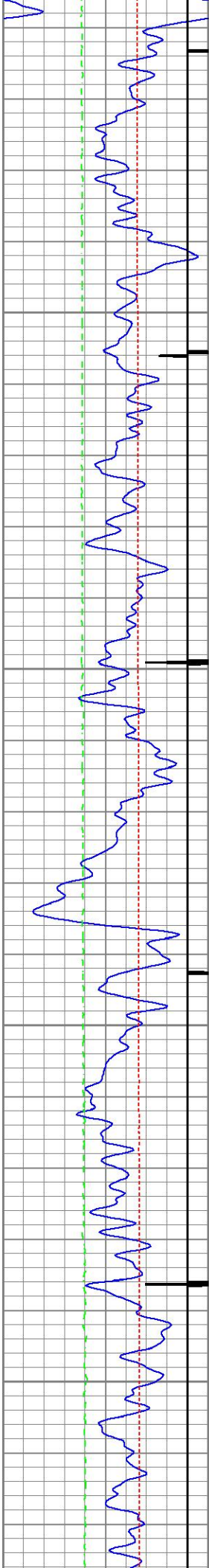




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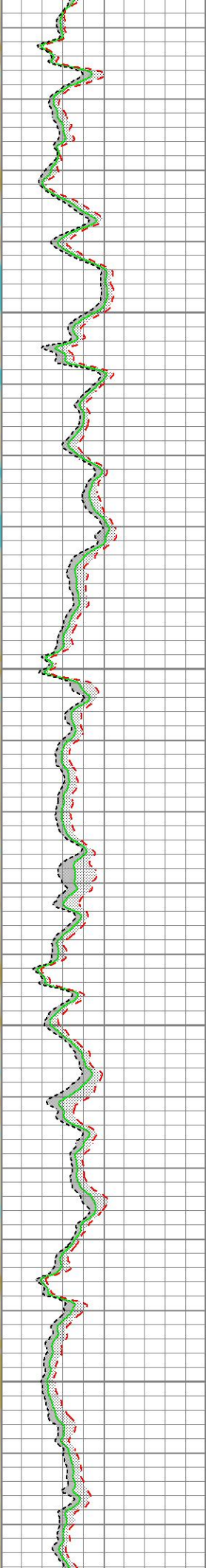
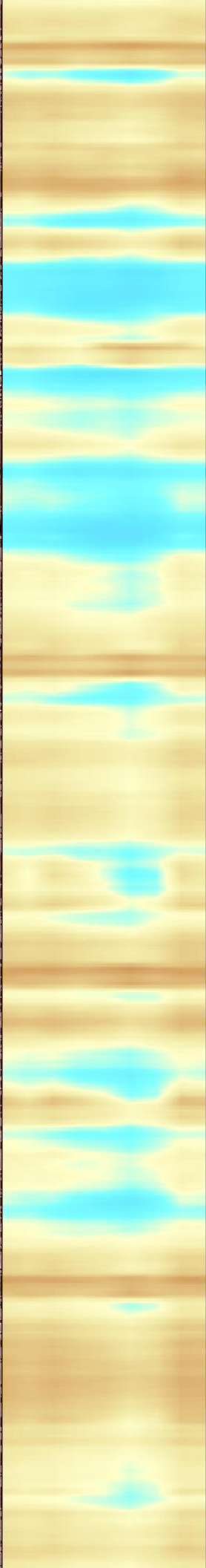
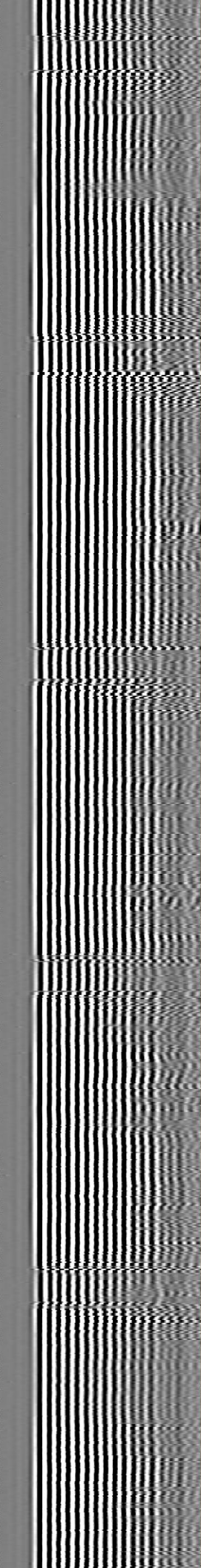
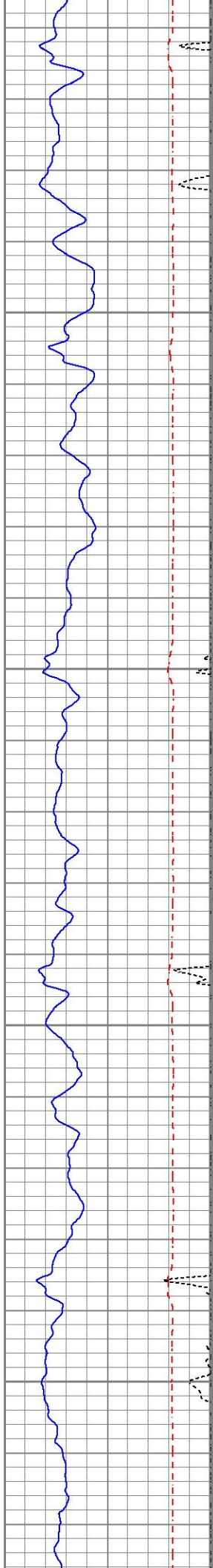
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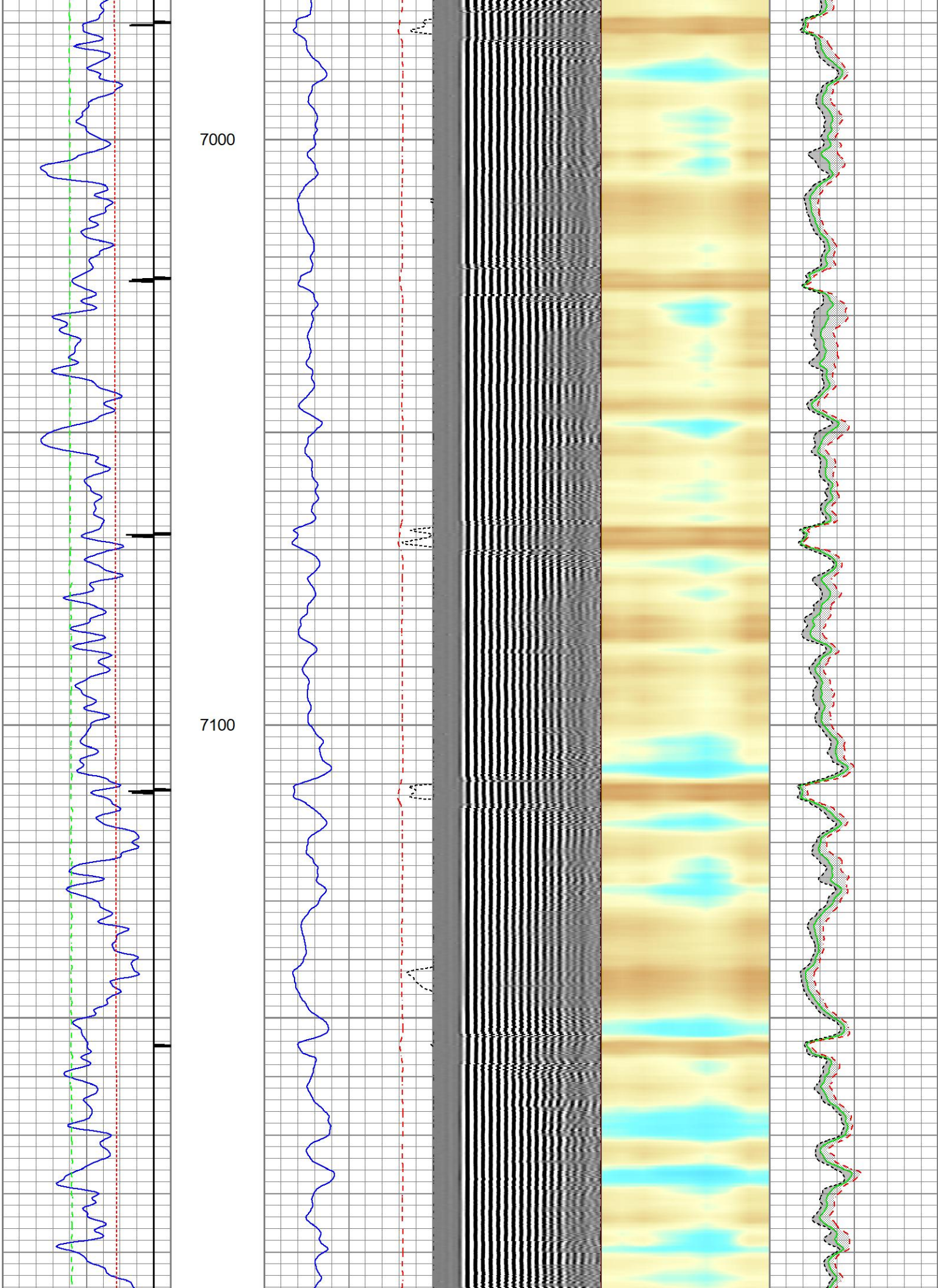
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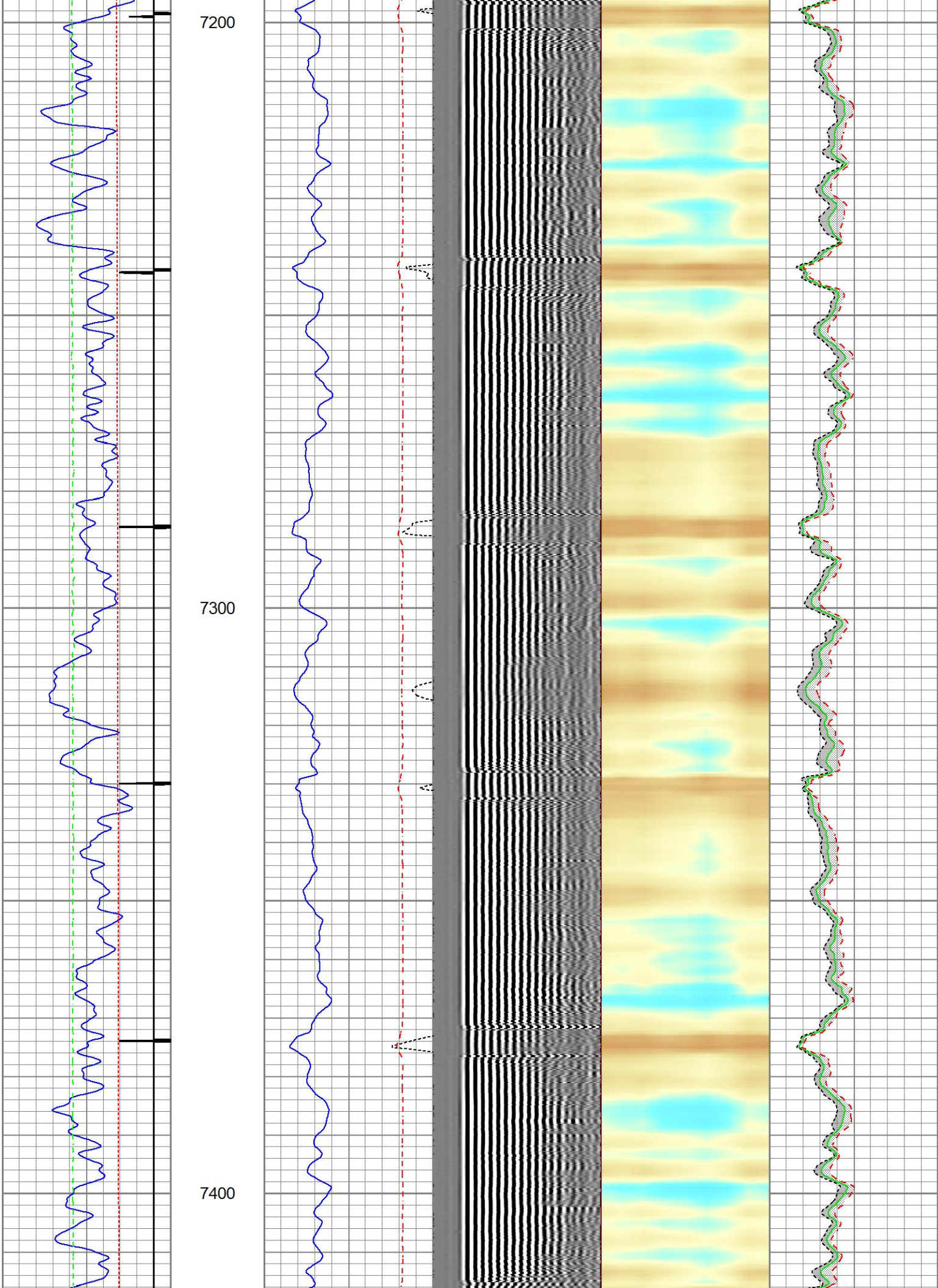
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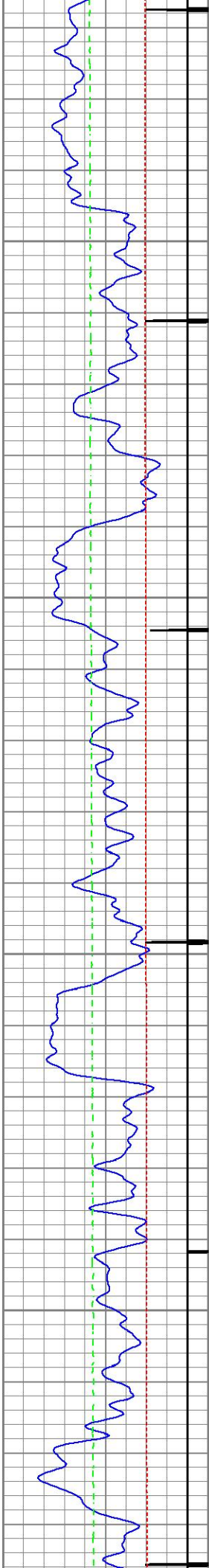


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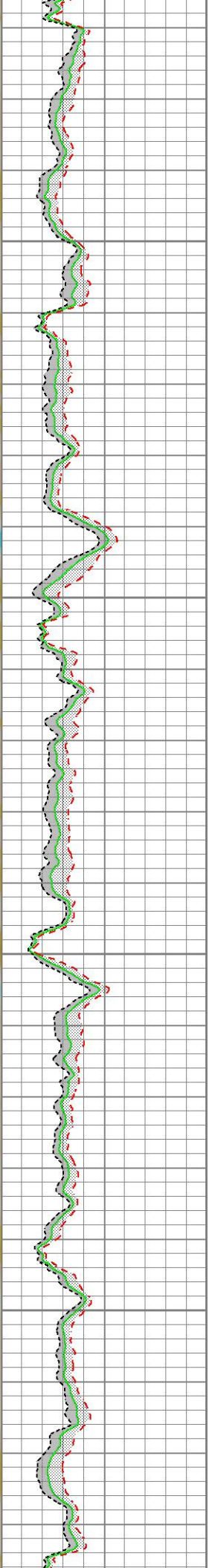
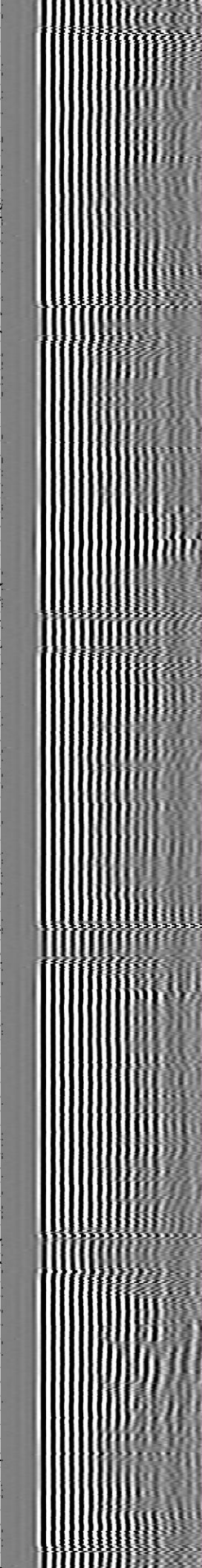
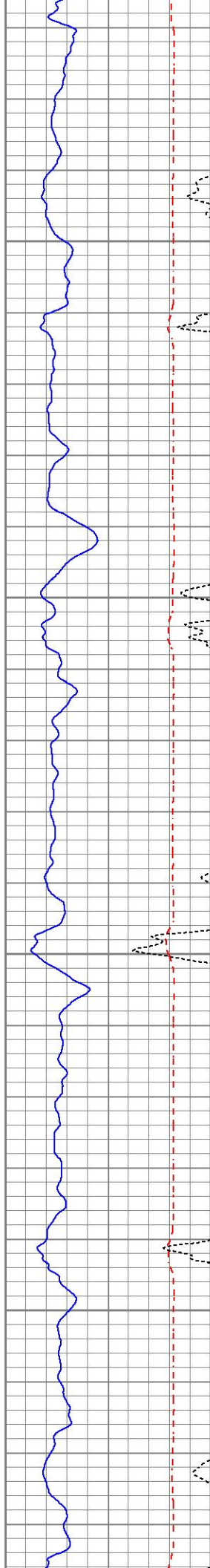
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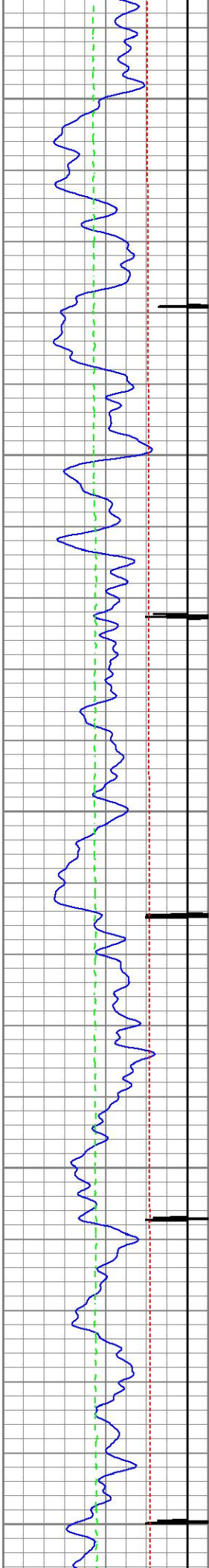




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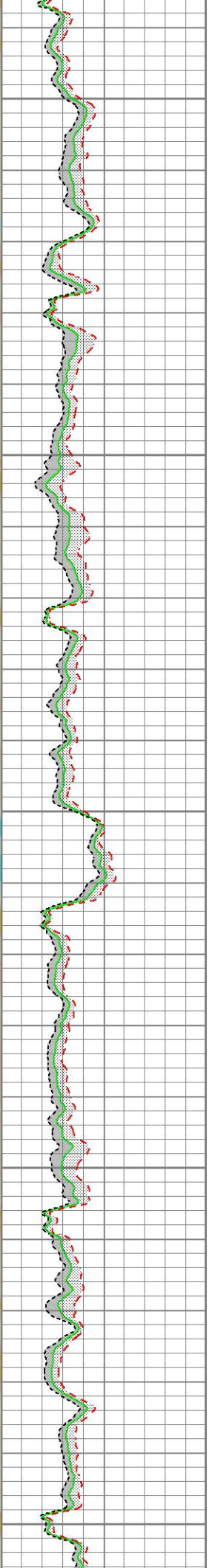
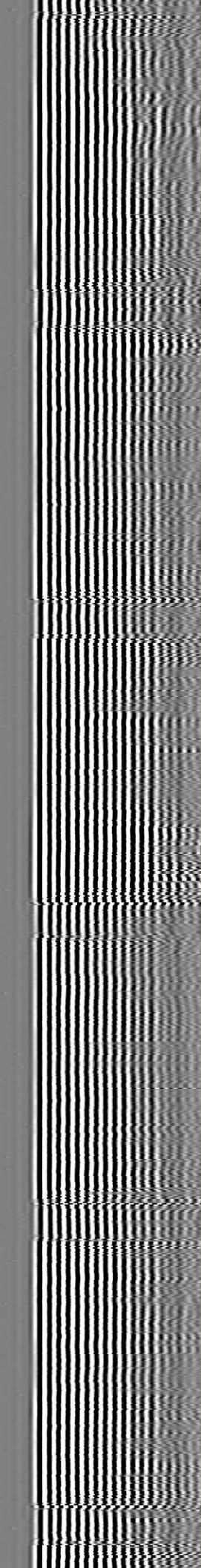
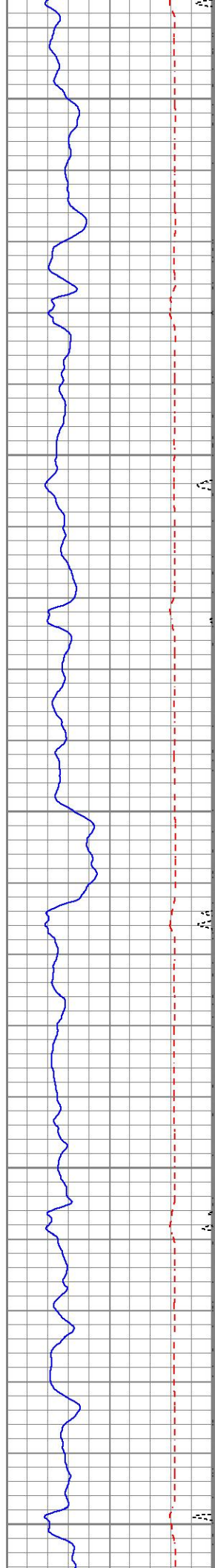
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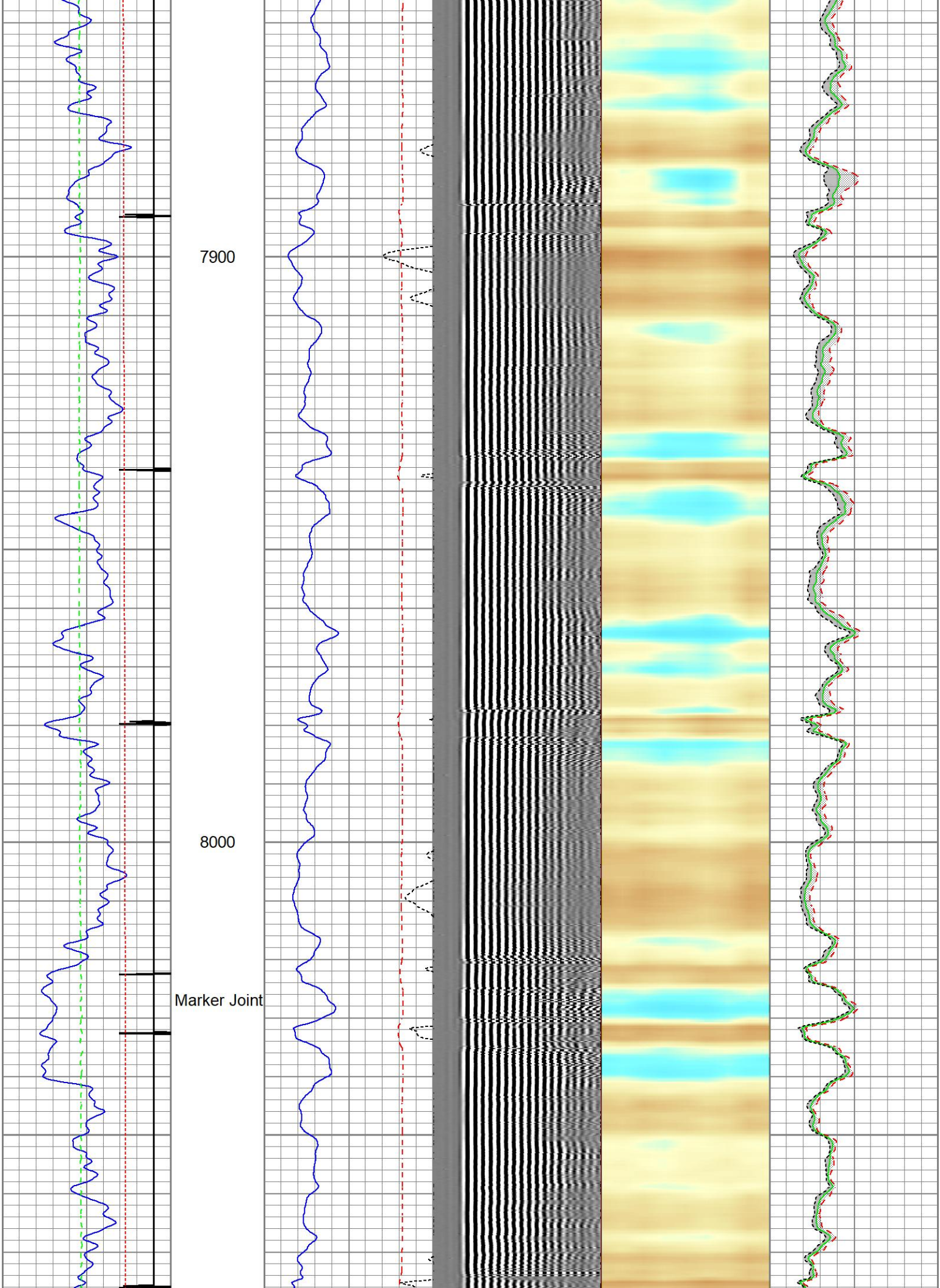




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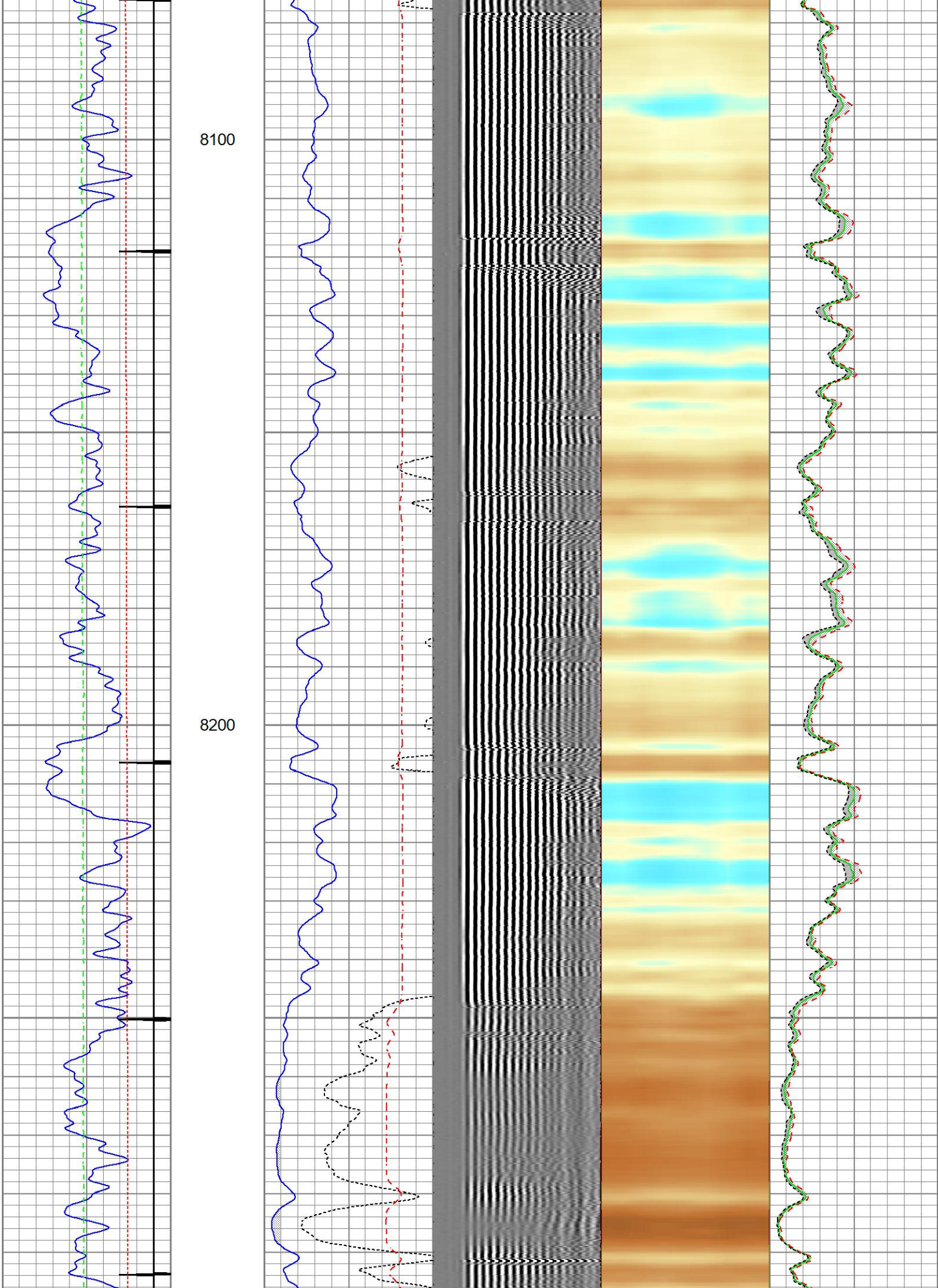
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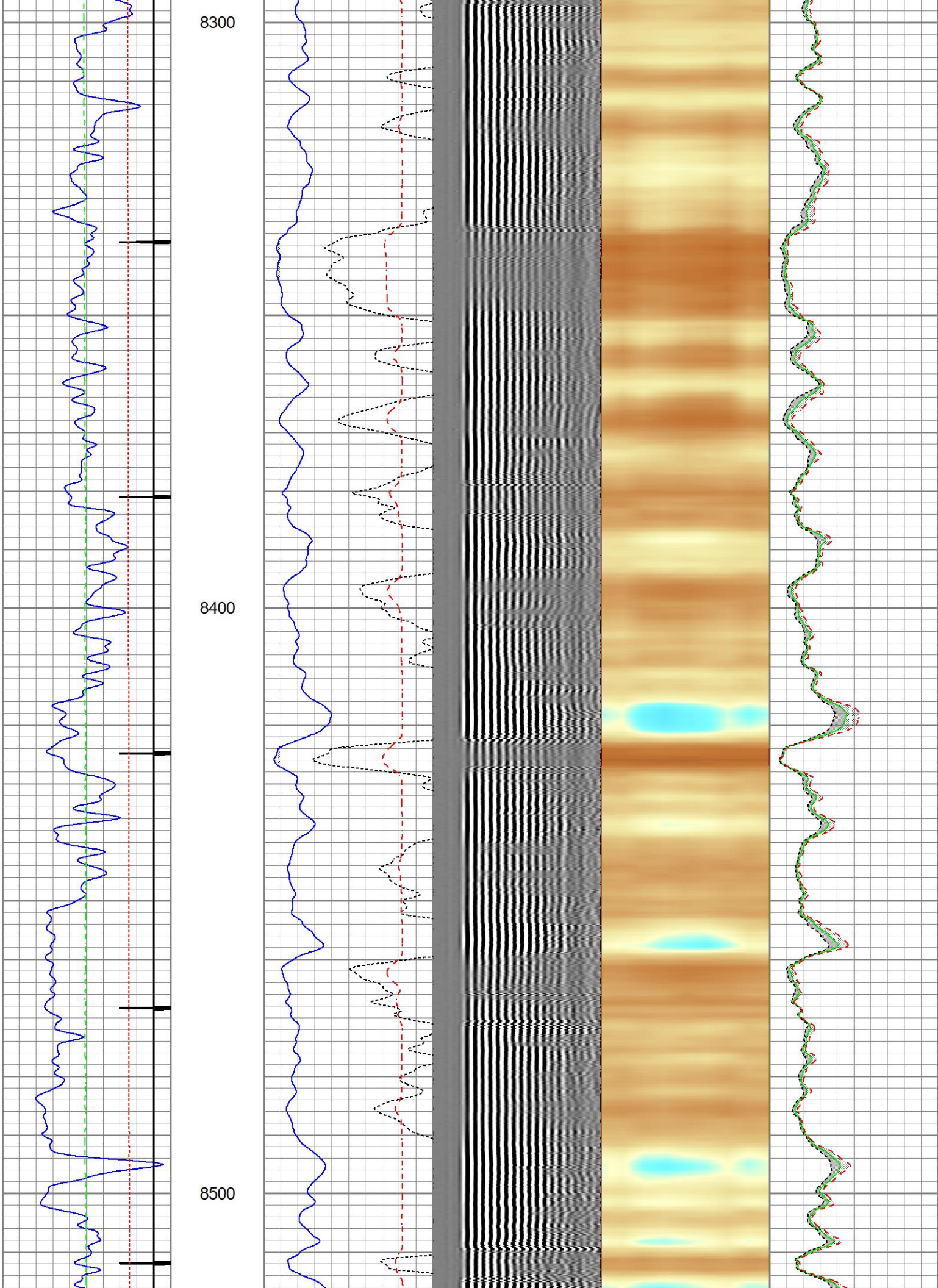
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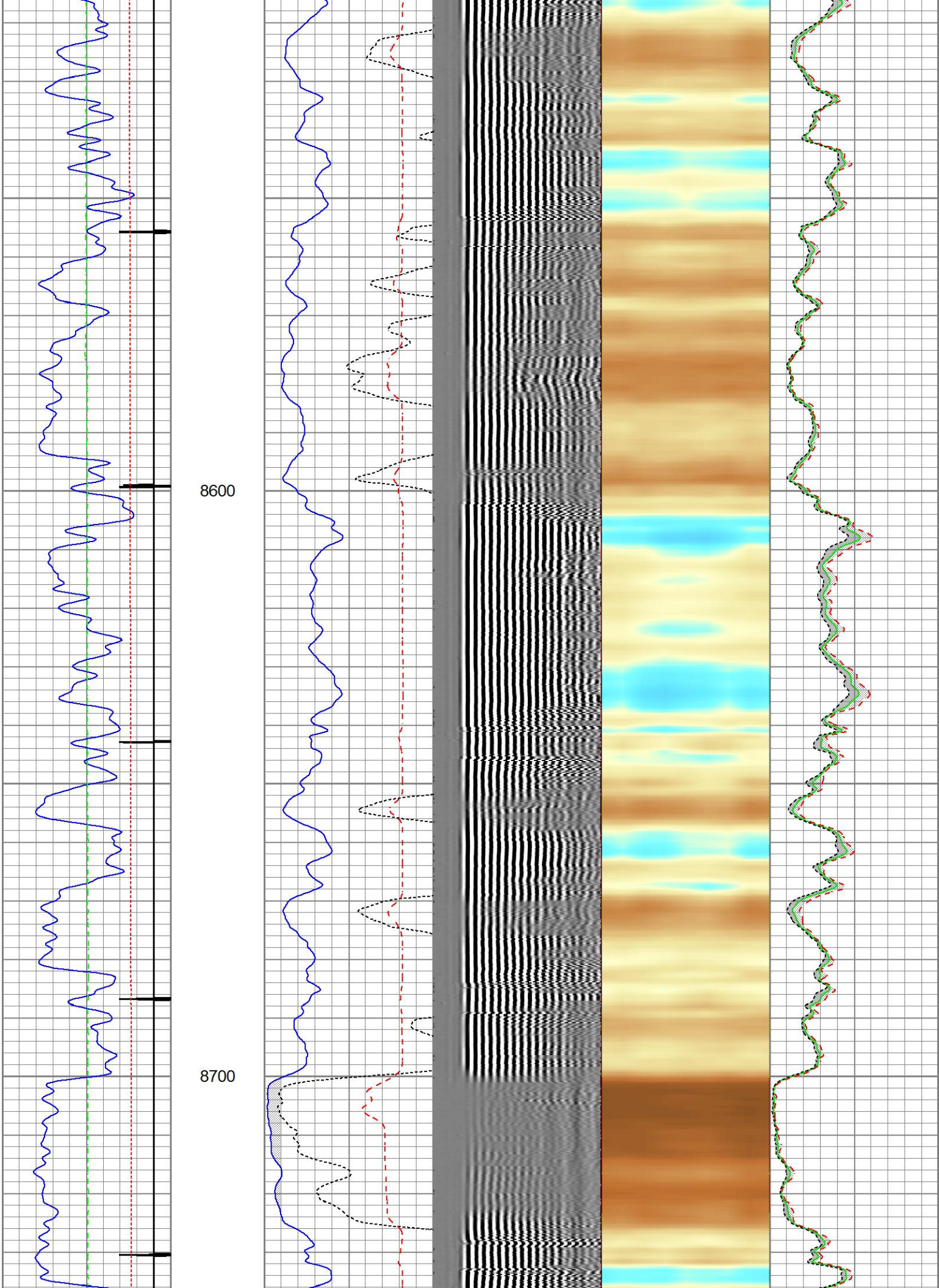


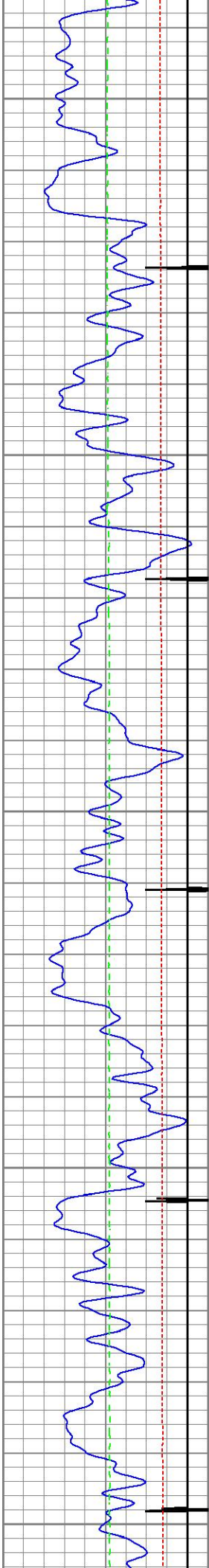
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8400

8500

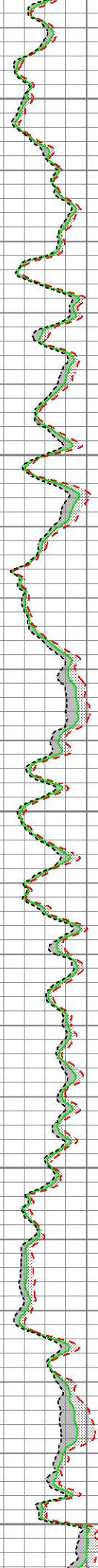
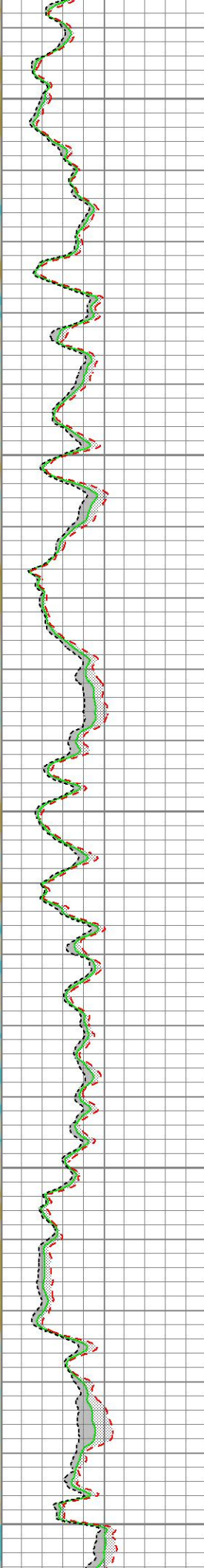
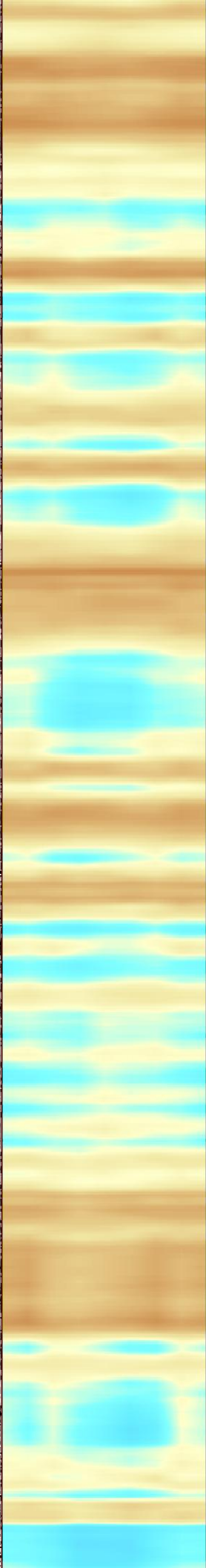
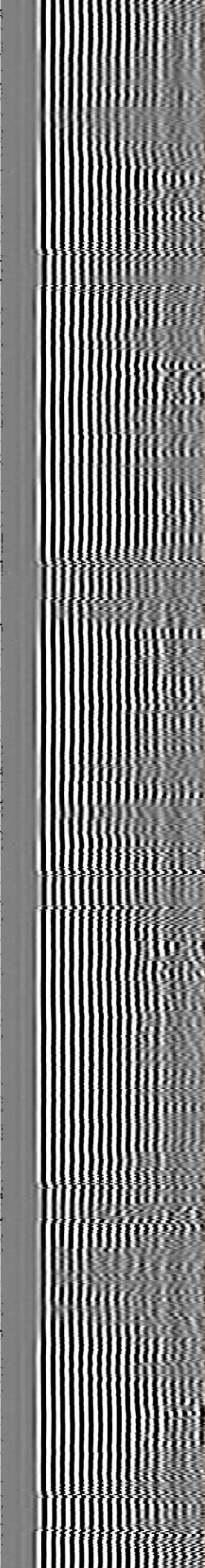
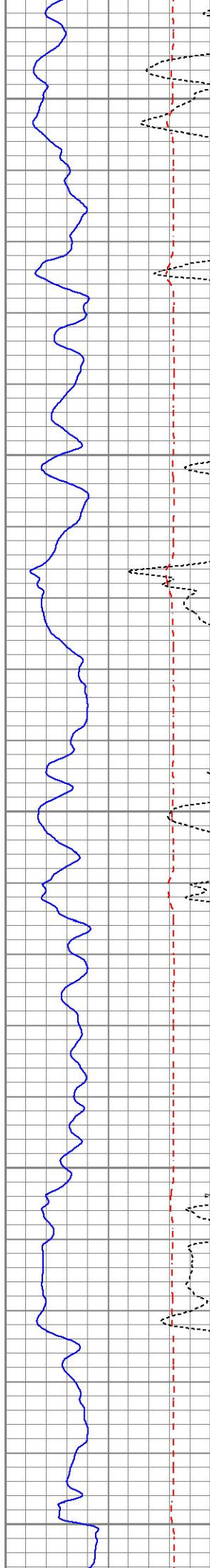


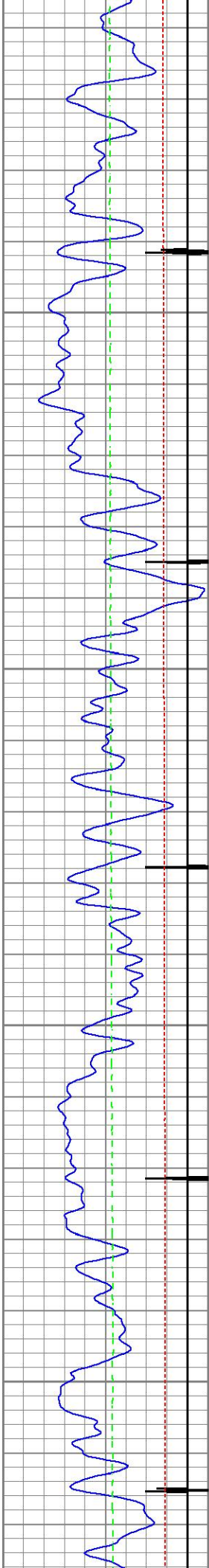




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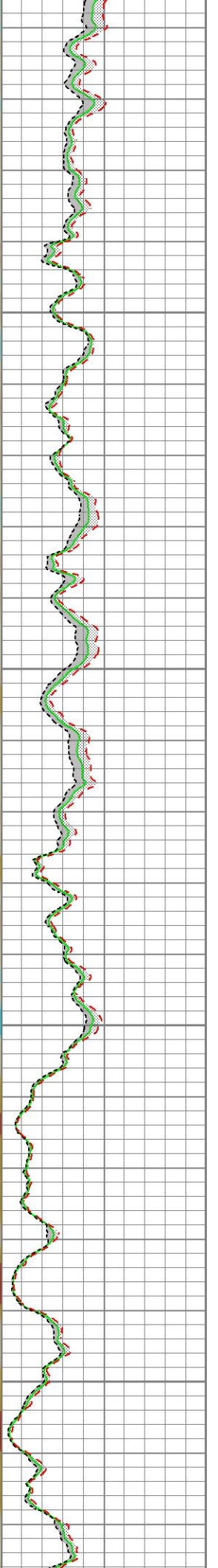
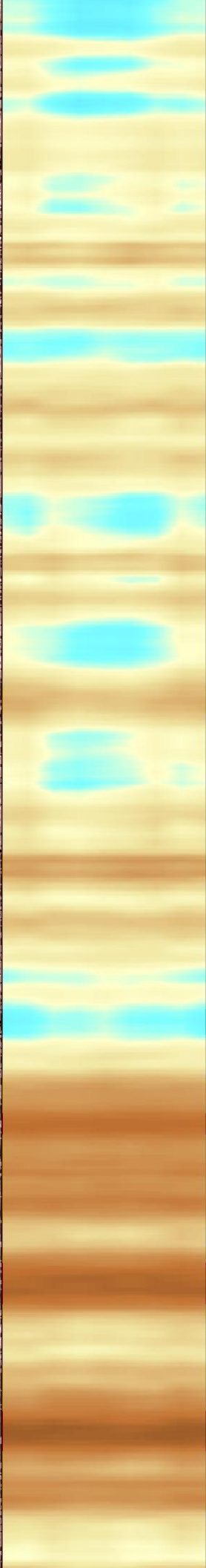
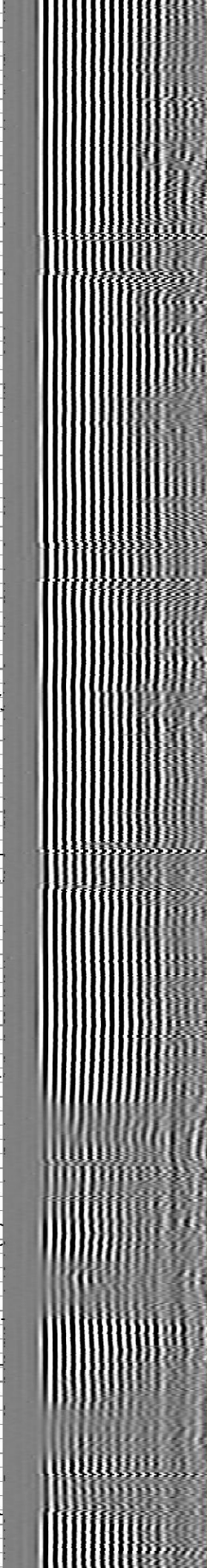
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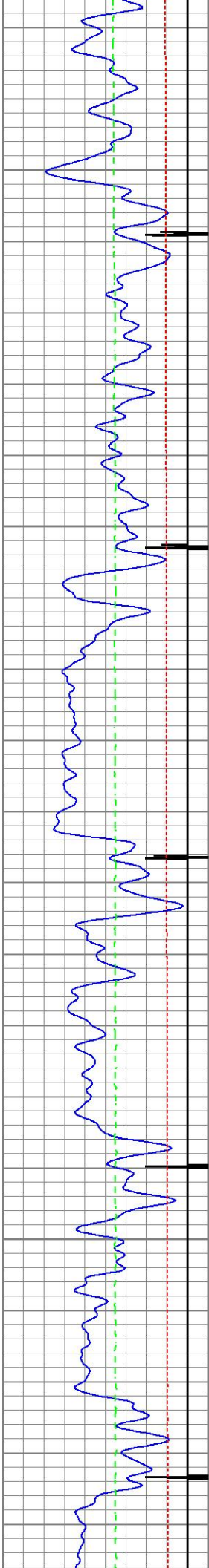




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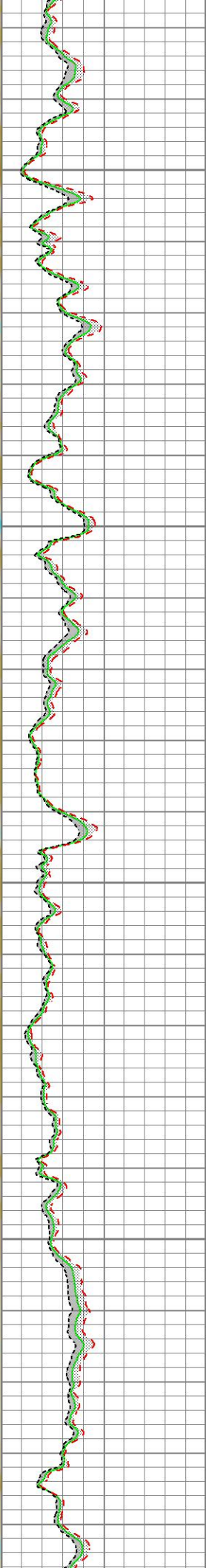
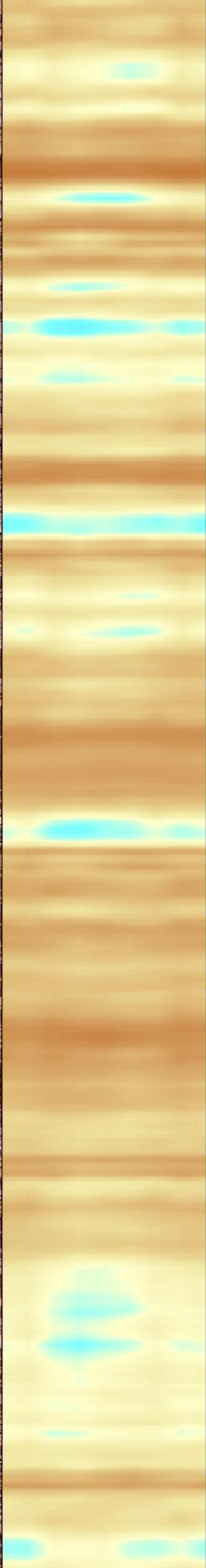
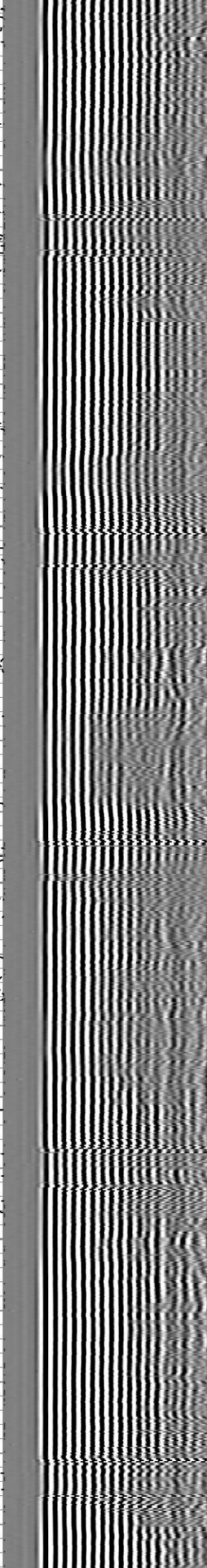
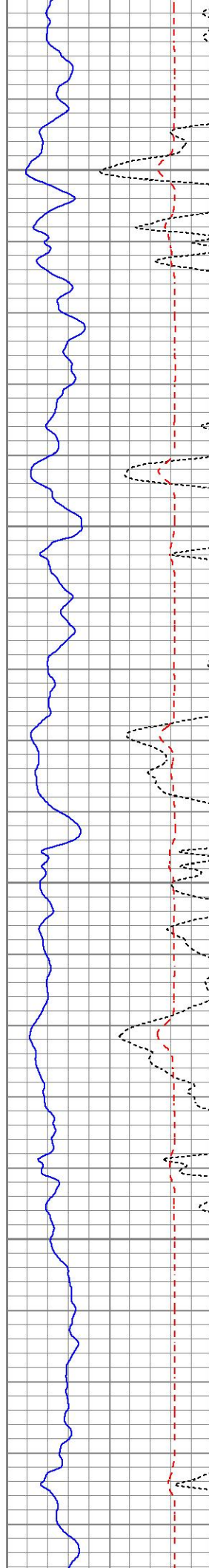
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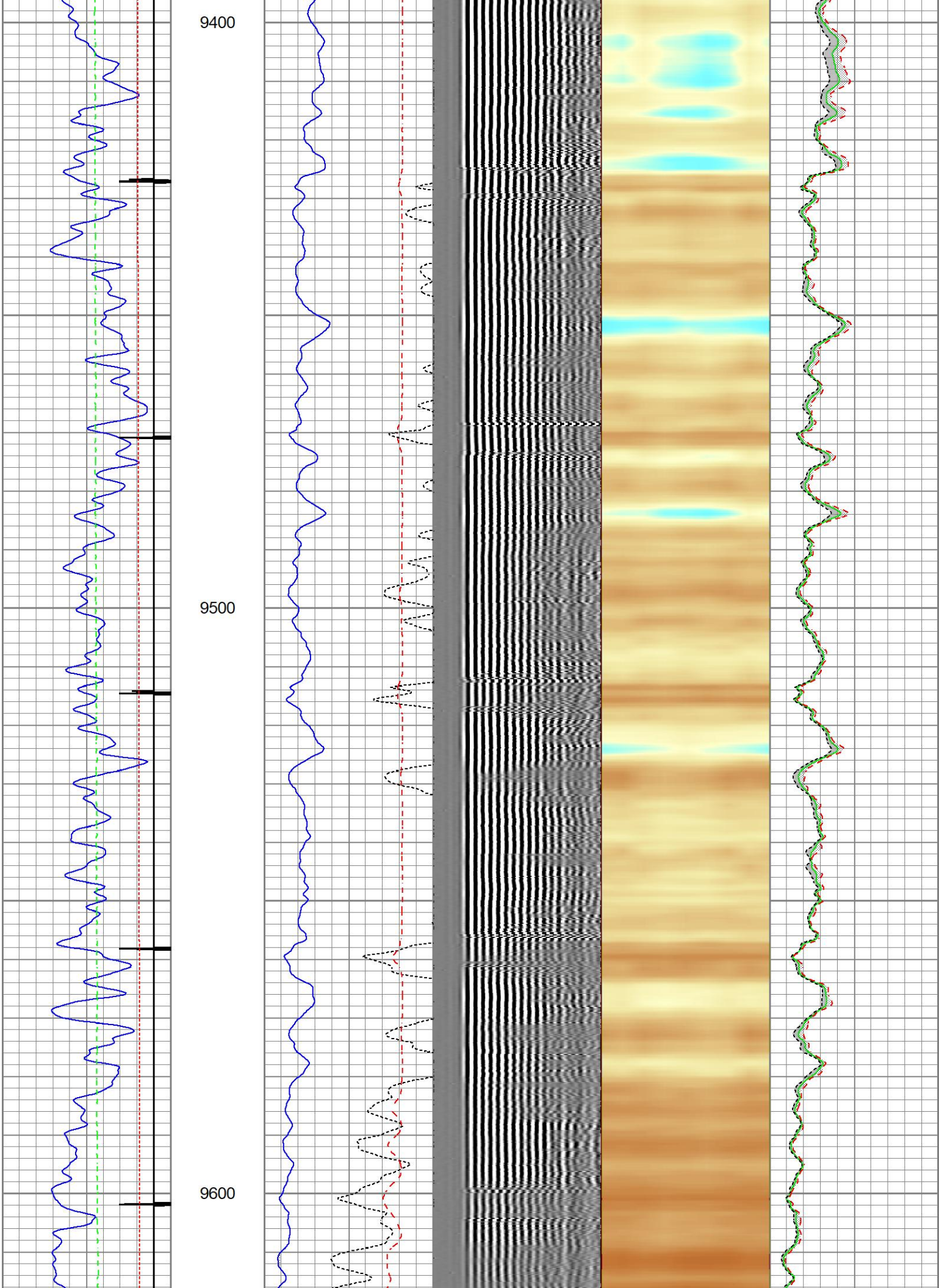


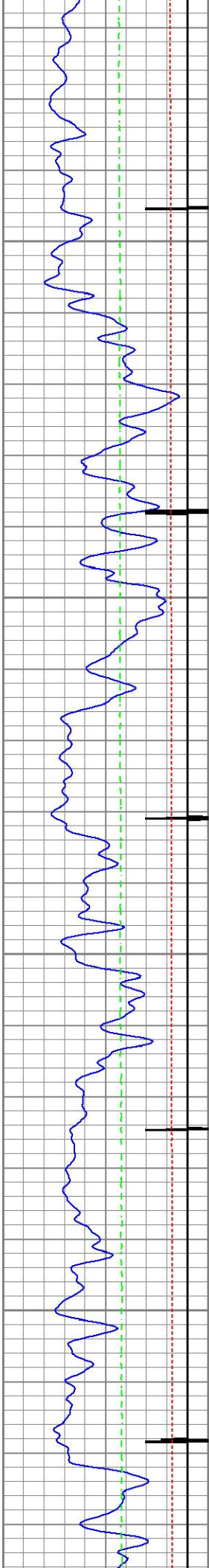


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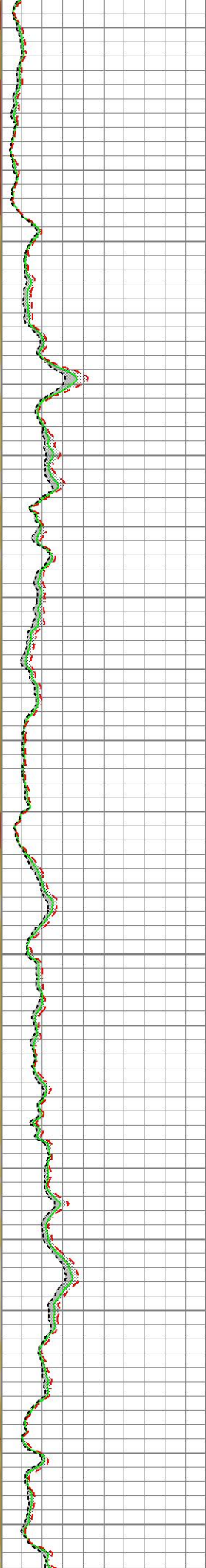
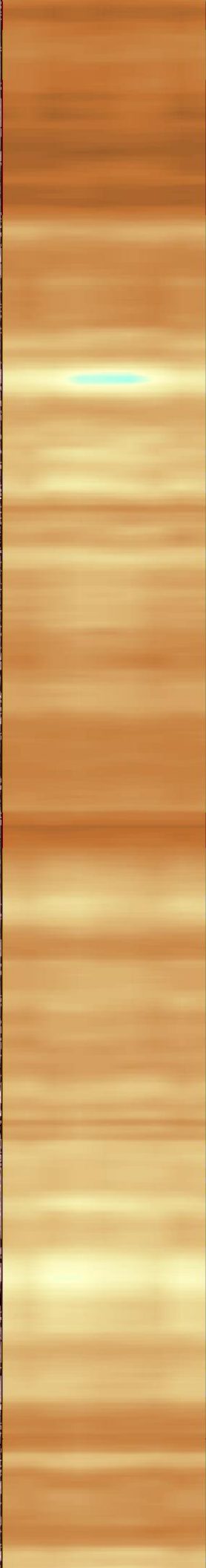
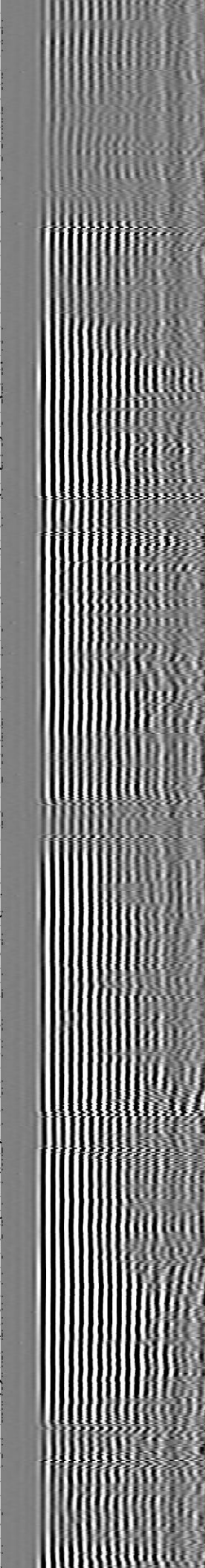
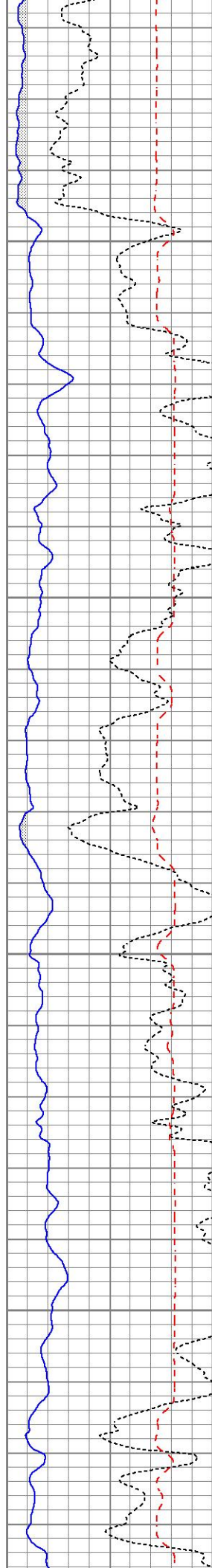


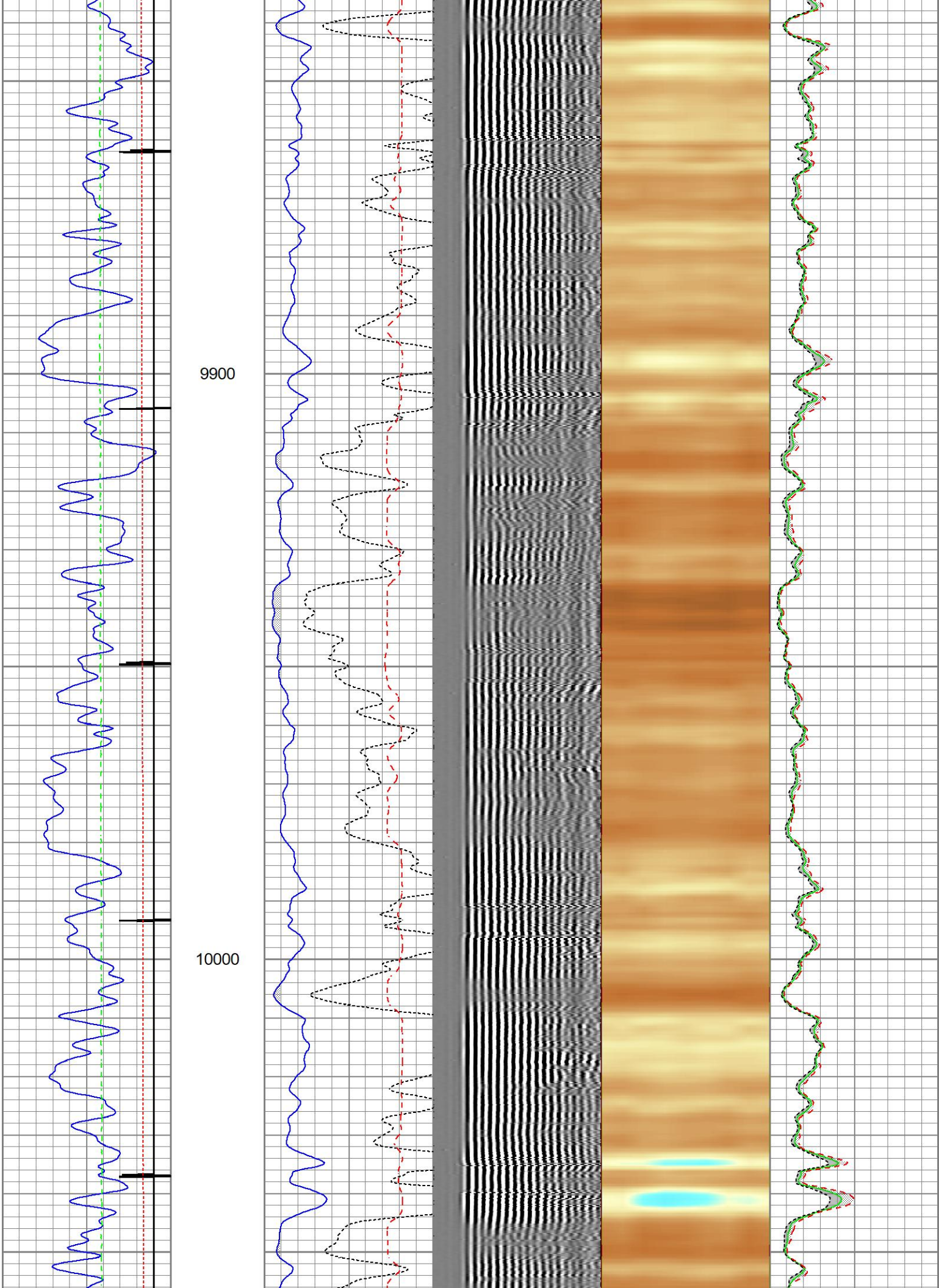


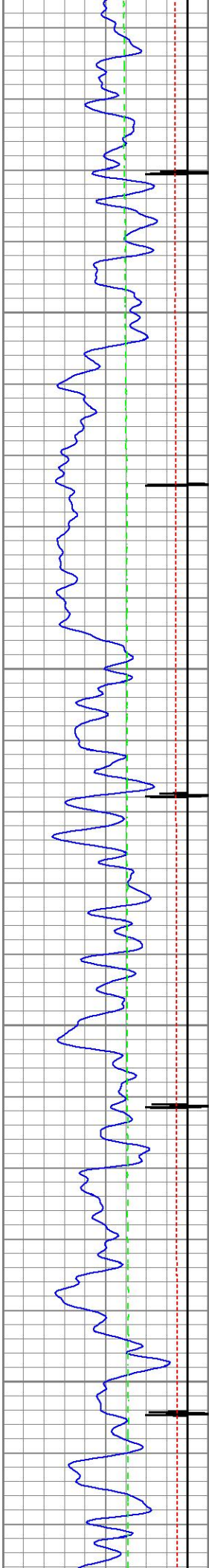


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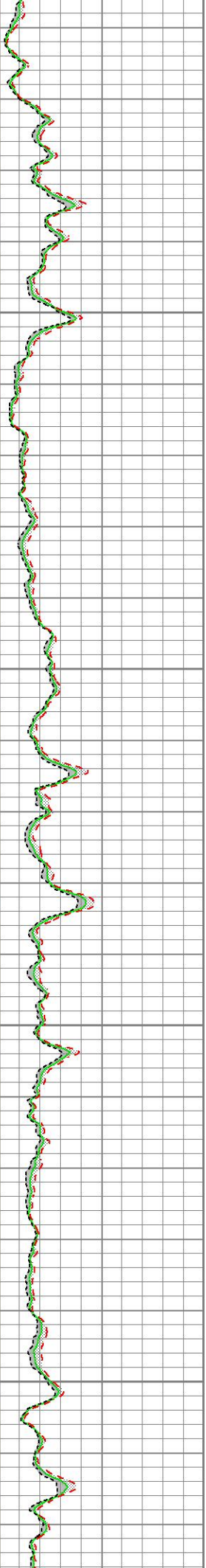
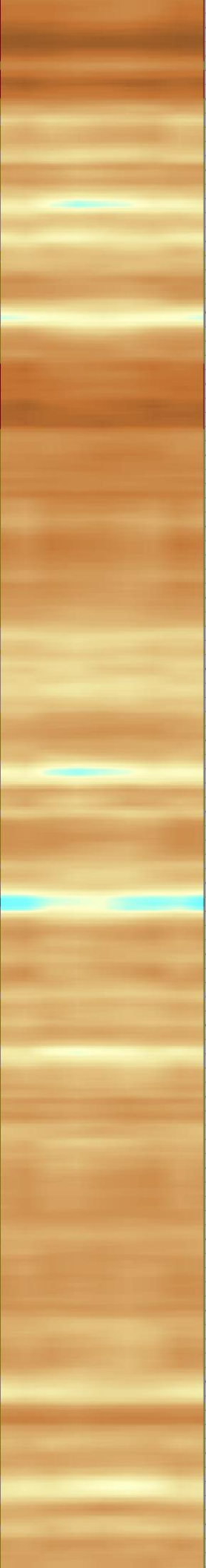
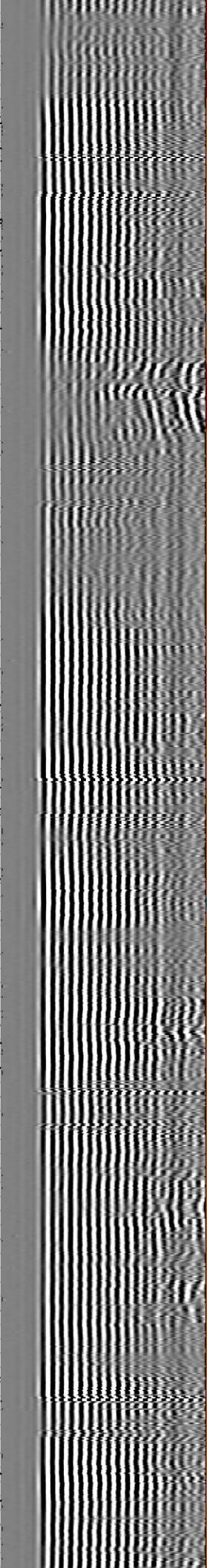
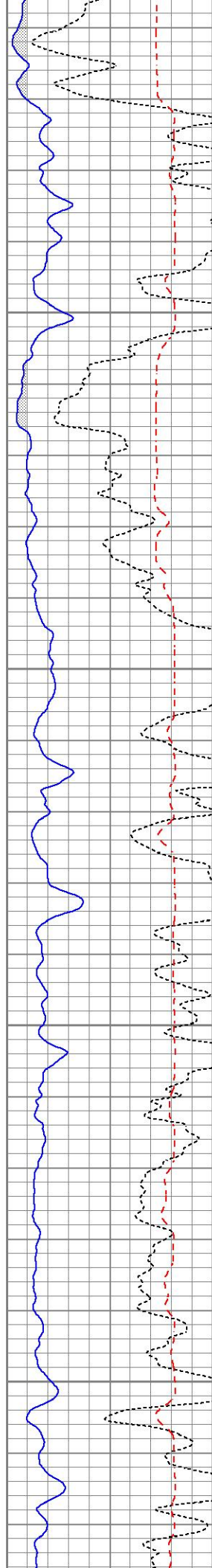


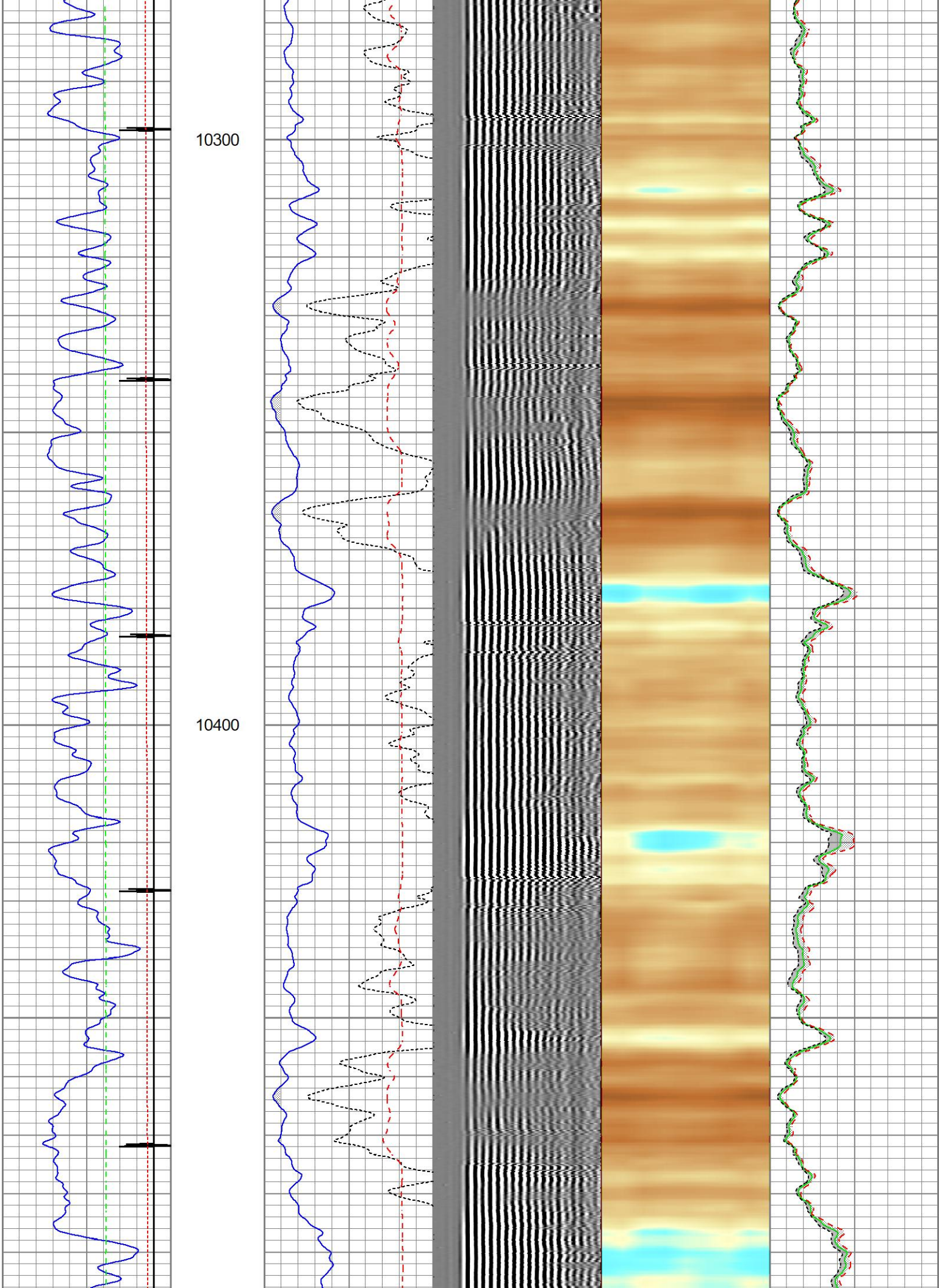


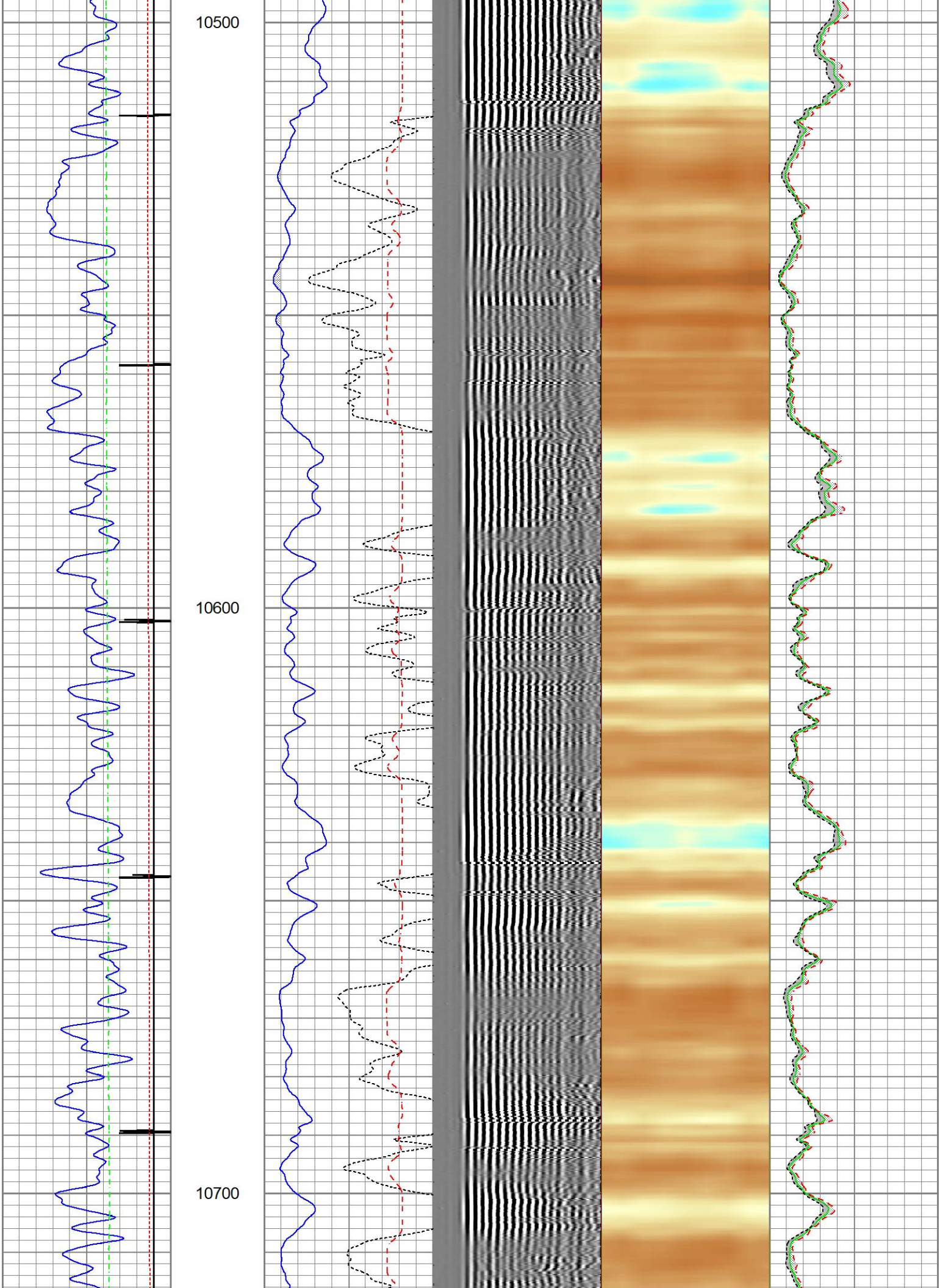


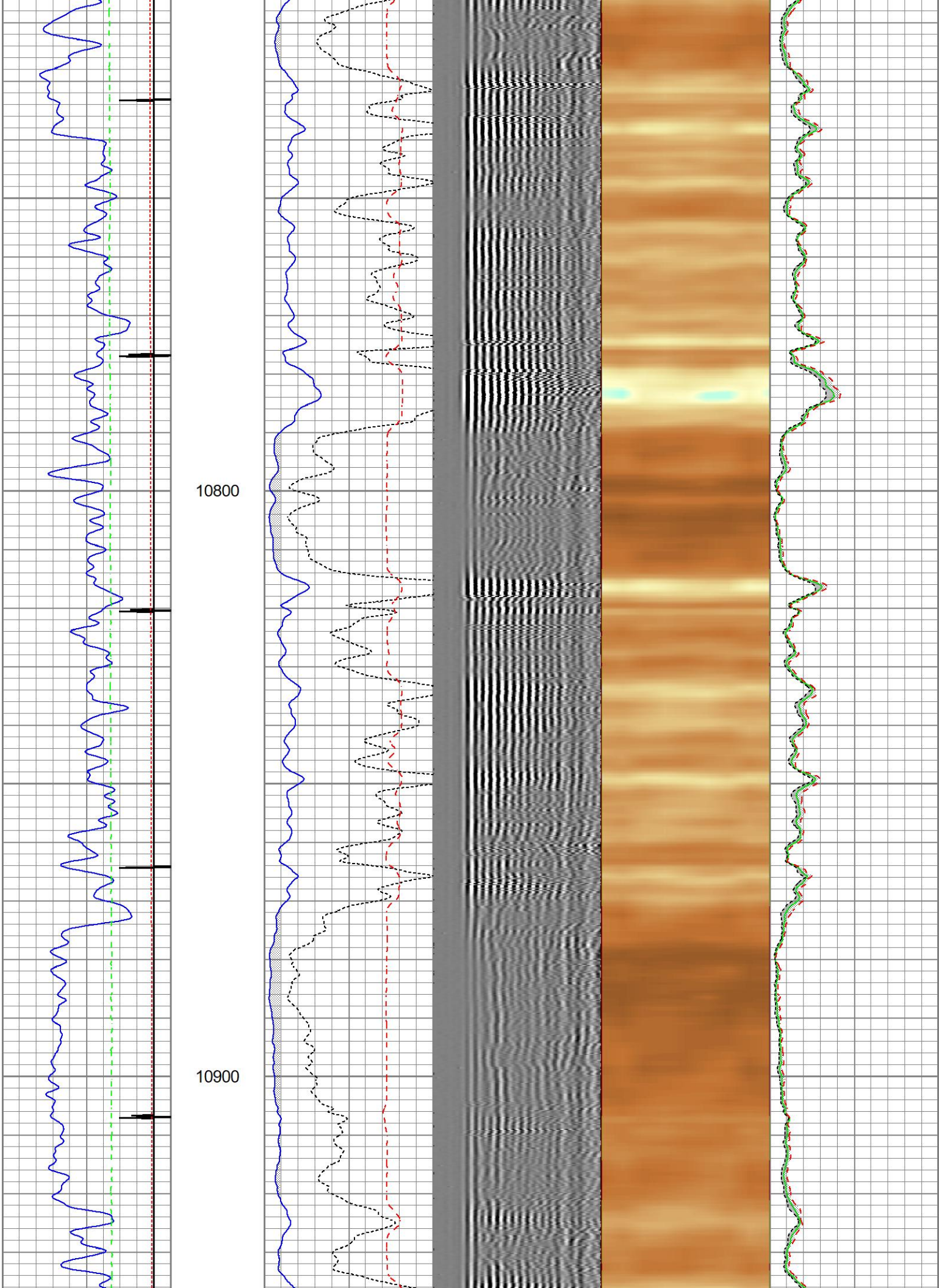
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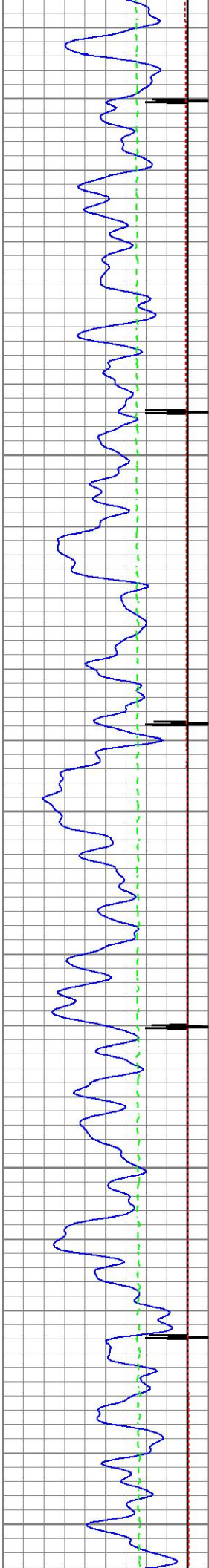
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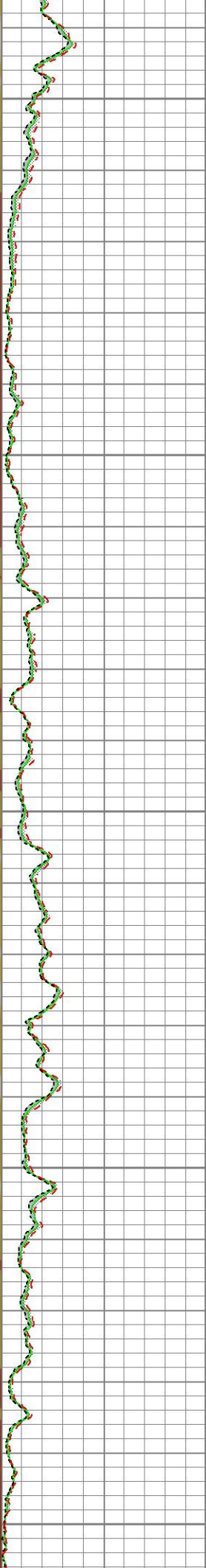
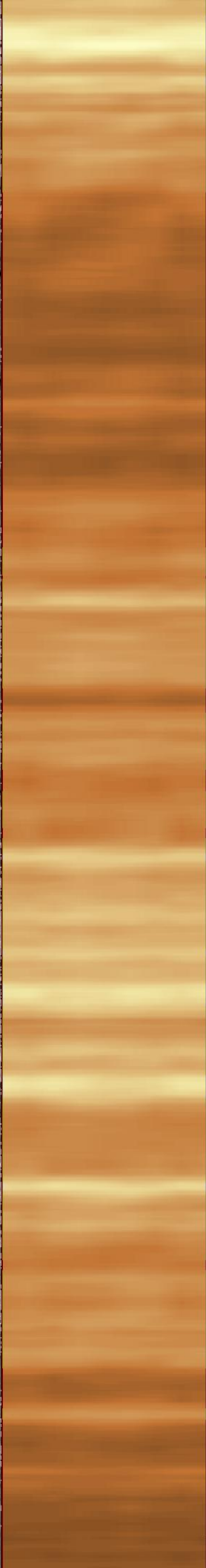
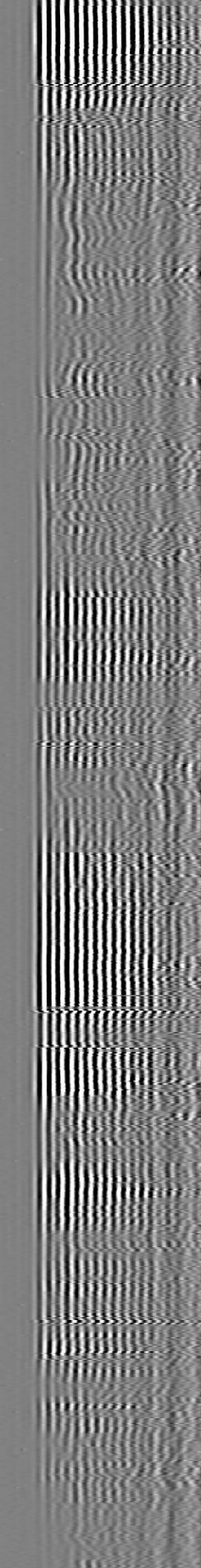
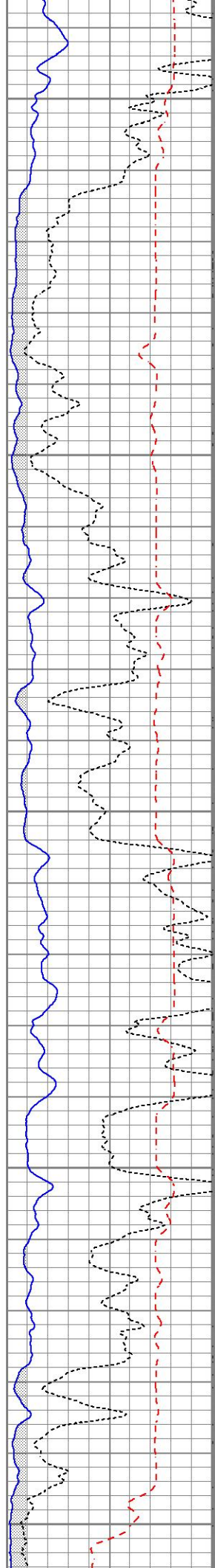


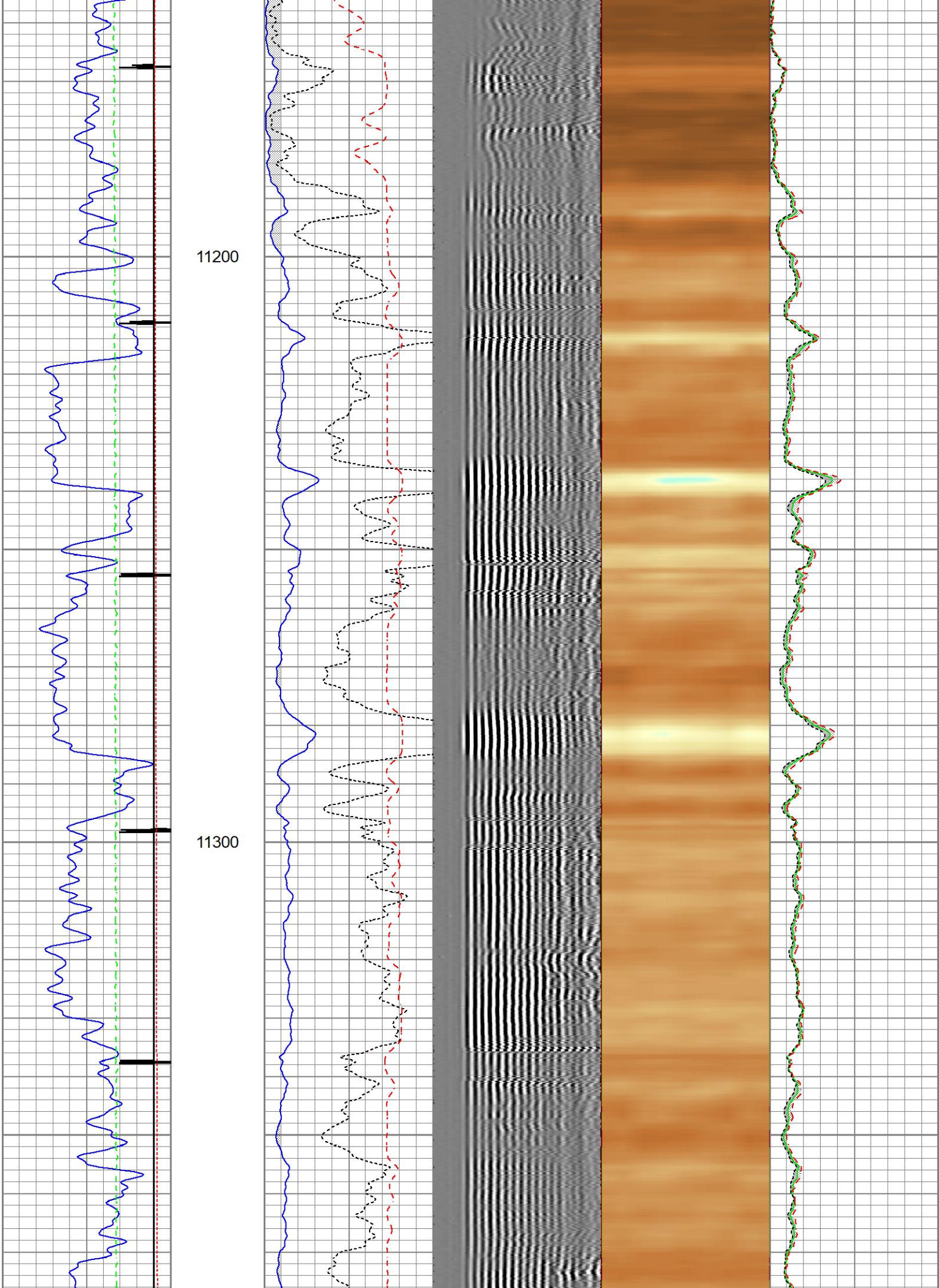


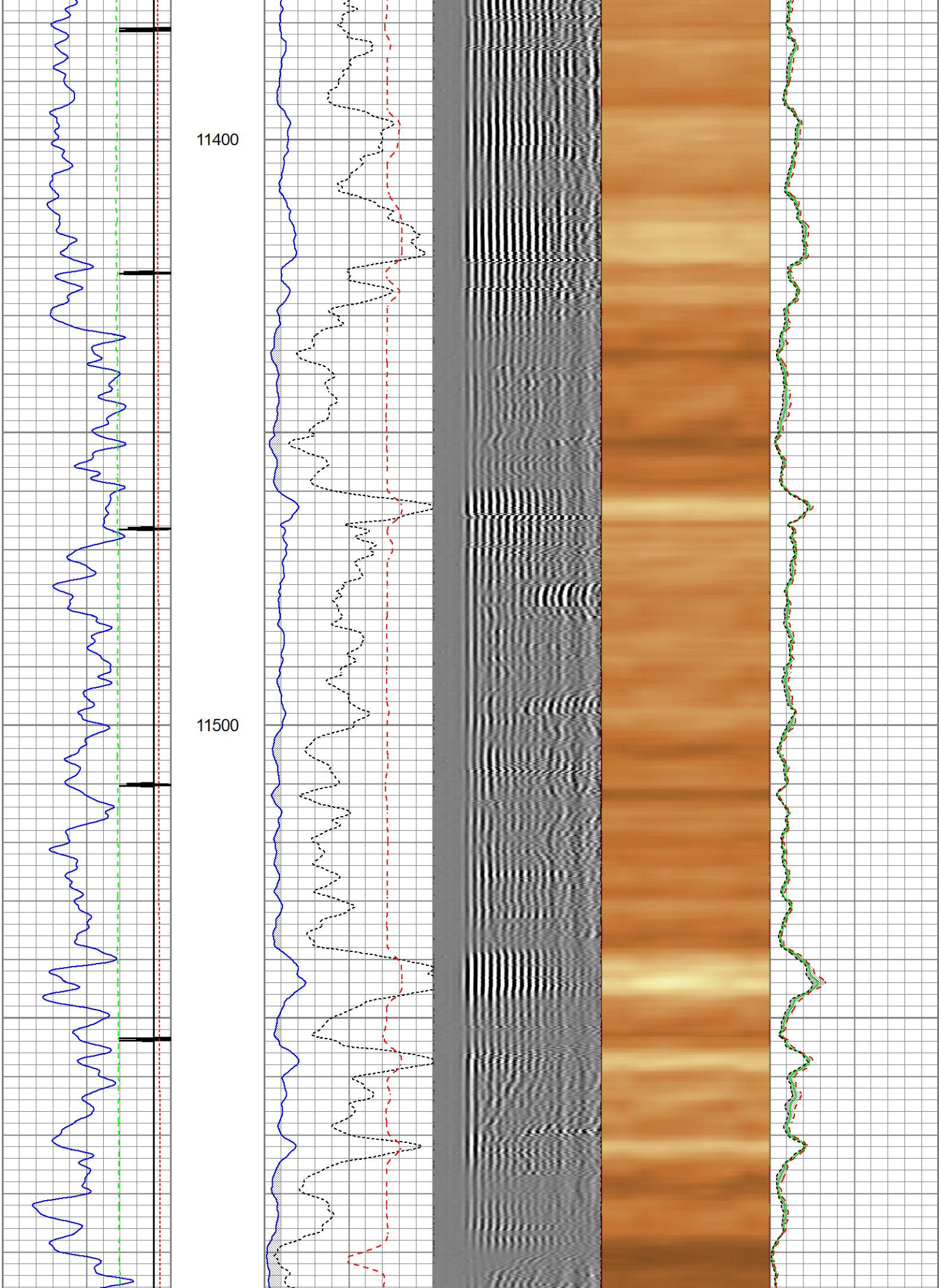


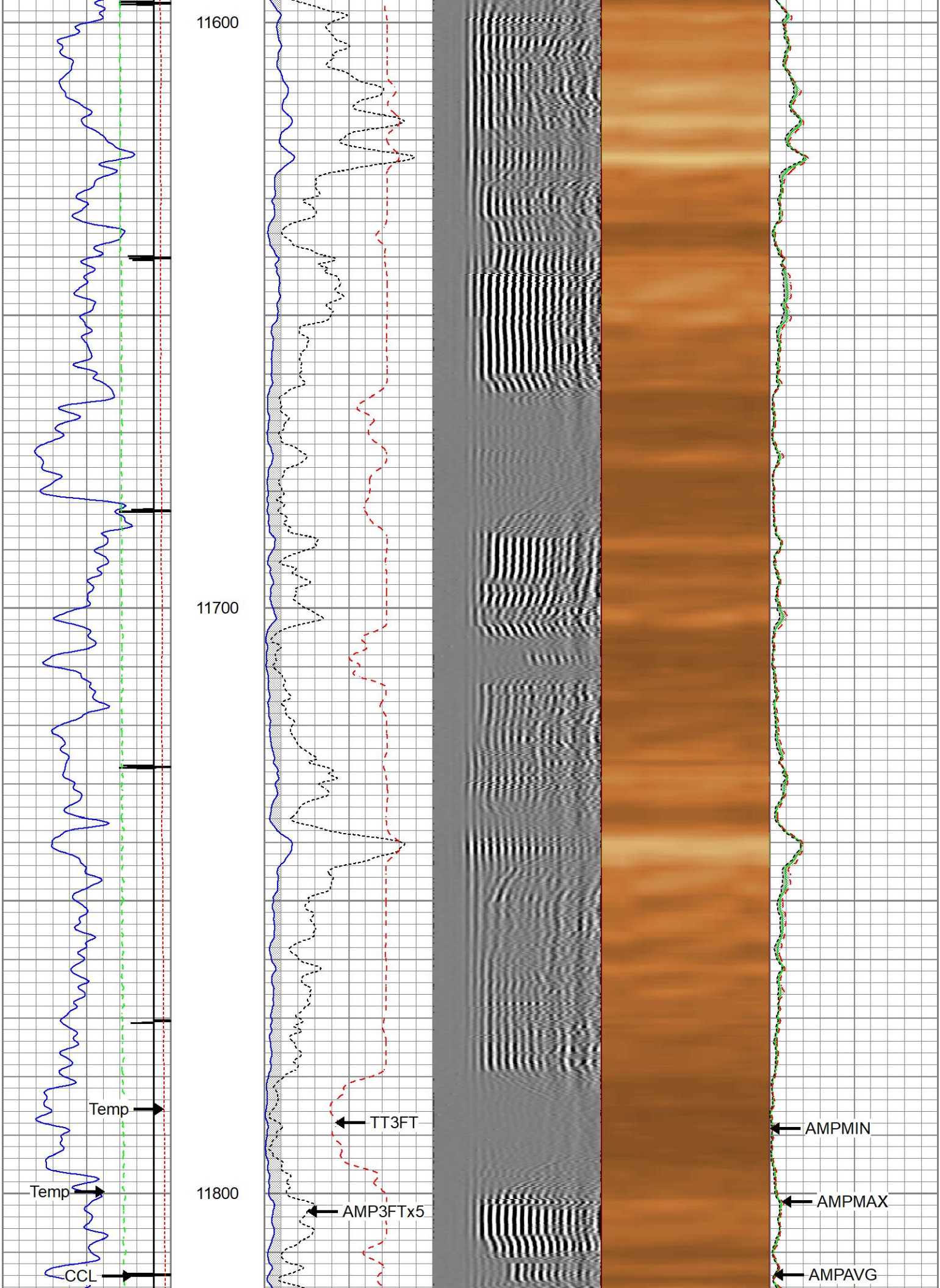
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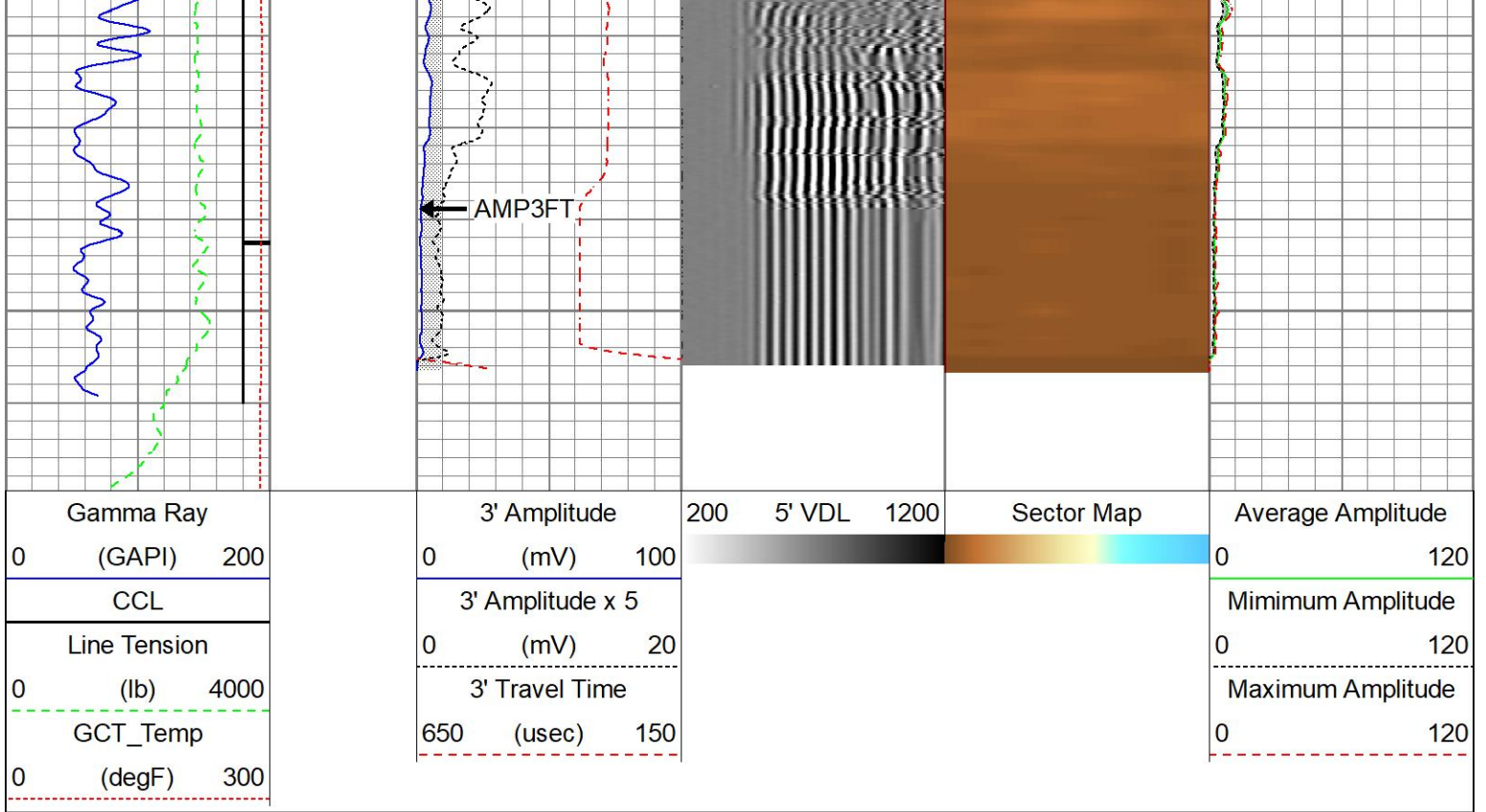
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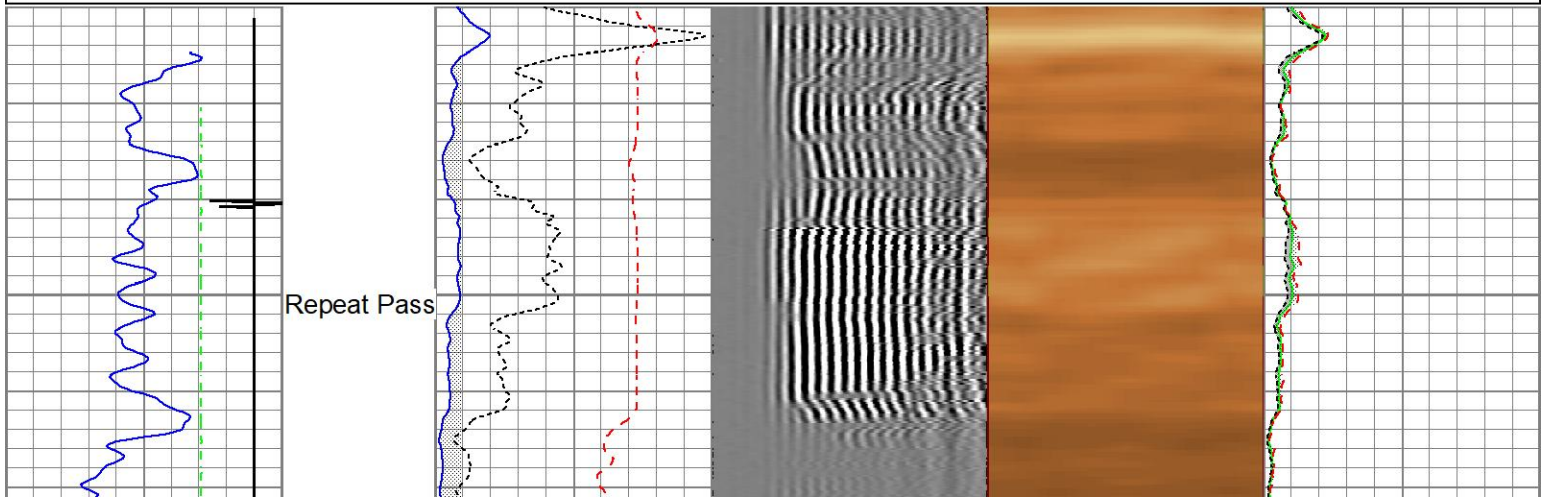
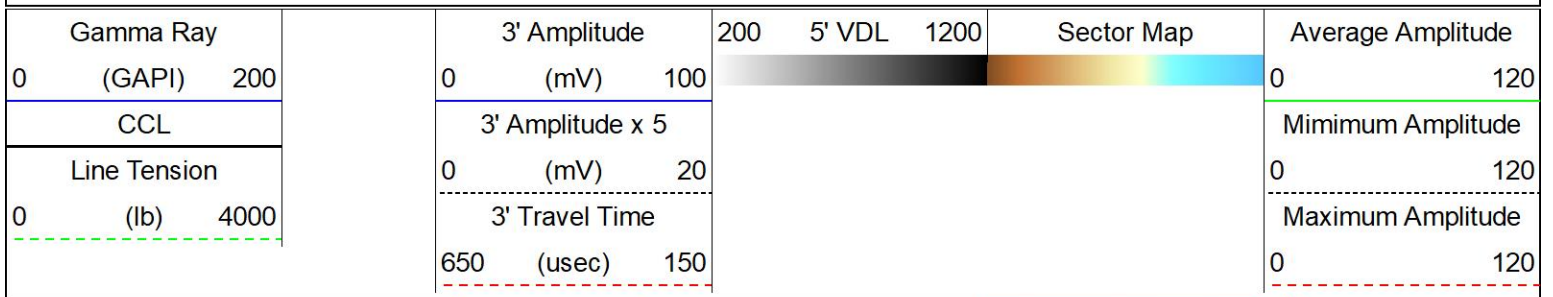


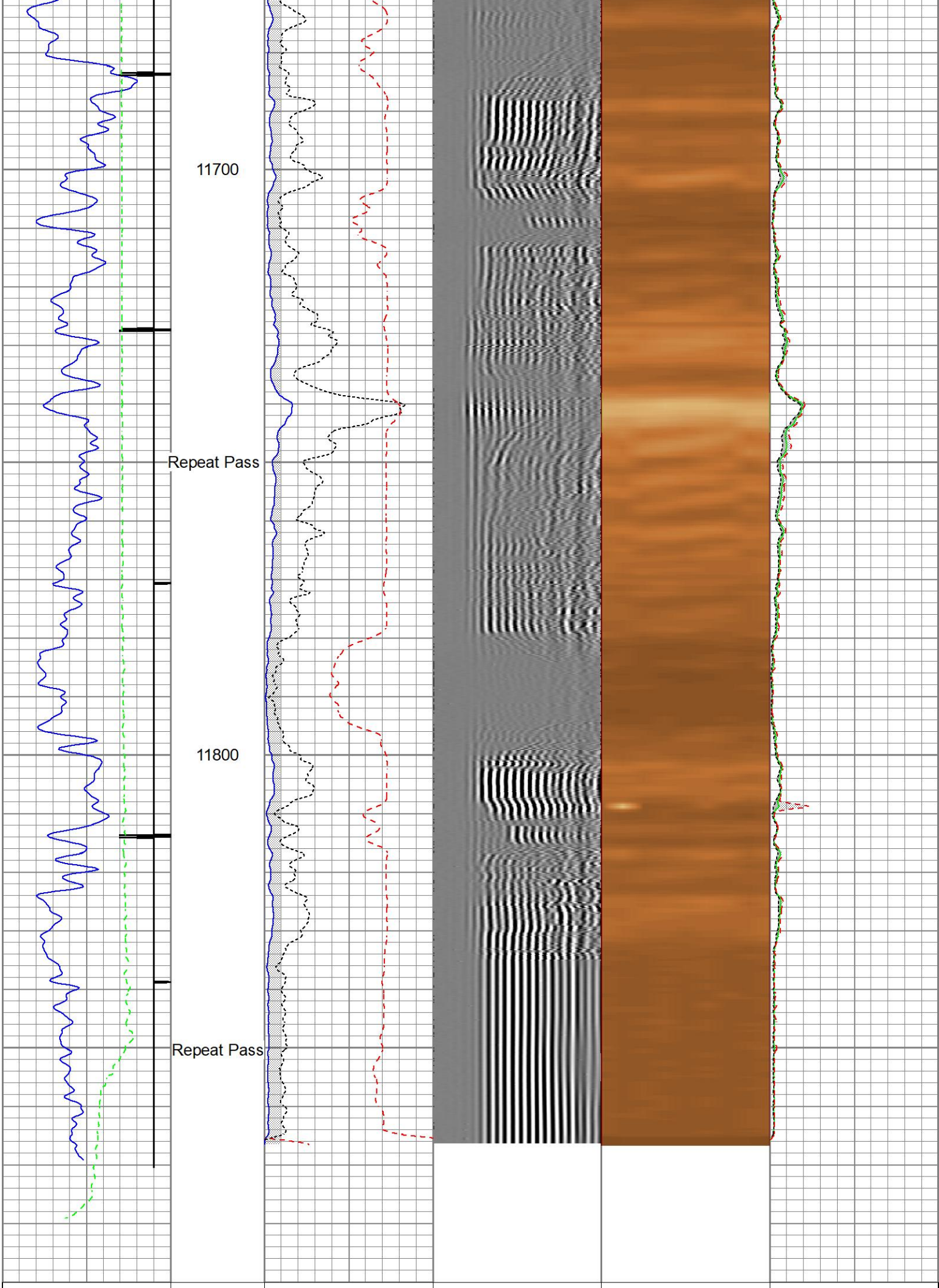




Repeat Pass 5" = 100'

Database File caerus_14d-35_rcbl_cnl_6-22-2022.db
 Dataset Pathname repeat
 Presentation Format TWG_RA~1
 Dataset Creation Thu Jun 23 08:13:43 2022
 Charted by Depth in Feet scaled 1:240





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

Calibration Report	
Database File	caerus_14d-35_rcbl_cnl_6-22-2022.db
Dataset Pathname	main1
Dataset Creation	Thu Jun 23 12:26:12 2022

Compensated Neutron Calibration Report	
Model:	CNT - 275Dig
Serial Number:	FW1409-35

SHOP CALIBRATION		Thu Mar 31 15:47:13 2022	
	Cal Tube	Units	
Tank Ratio	11.6940	SS/LS	
LS Detector	68.71	cps	
SS Detector	748.49	cps	
Tool Ratio	10.8929	SS/LS	
Tool Gain	1.0735	----	

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	
Type / Serial:	Probe275dig / FW1403-107

SHOP CALIBRATION		(Not Performed)			
	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0	1.0000			cps GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference			0.0		GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps

Difference

0.0

GAPI

AFTER SURVEY VERIFICATION

Background	0.0			cps
Calibrator	0.0			cps
Difference		0.0		GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: FW1312-30
 Tool Model: Probe275acc

Calibration Casing Diameter: 4.500 in
 Calibration Depth: 16.850 ft

Master Calibration, performed Thu Jun 23 07:36:30 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	0.743	0.000	81.196	109.806	-0.383
CAL	0.002	0.751				
5'	0.004	0.714	0.000	81.196	114.326	-0.459
SUM						
S1	0.029	0.763	0.000	100.000	136.349	-4.006
S2	0.004	0.763	0.000	100.000	131.734	-0.463
S3	0.003	0.761	0.000	100.000	131.787	-0.352
S4	0.003	0.746	0.000	100.000	134.604	-0.376
S5	0.004	0.757	0.000	100.000	132.823	-0.538
S6	0.002	0.740	0.000	100.000	135.555	-0.333
S7	0.002	0.752	0.000	100.000	133.362	-0.300
S8	0.003	0.751	0.000	100.000	133.695	-0.382

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.002	0.751	1.000	0.000

Air Zero Calibration, performed Thu Jun 23 07:36:50 2022:



	Raw (v)		Calibrated (v)		Results	
	Zero		Zero			Offset
3'	0.003		0.000			0.001
5'	0.004		0.000			0.000
SUM						
S1	0.029		0.000			0.000
S2	0.004		0.000			-0.000
S3	0.003		0.000			0.000
S4	0.003		0.000			0.000
S5	0.004		0.000			0.000
S6	0.002		0.000			0.000
S7	0.002		0.000			-0.000
S8	0.004		0.000			-0.001

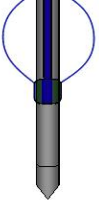
Inclinometer Calibration Report

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	14.27		RBT8acc-Probe275acc (FW1312-30) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
WVFS7	14.27					
WVFS6	14.27					
WVFS5	14.27					
WVFS4	14.27					
WVFS3	14.27					
WVFS2	14.27					
WVFS1	14.27					
WVF3FT	14.27					
WVF5FT	13.27					
RBT_HV	10.02		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	10.02					
RBT_ACCY	10.02					
RBT_ACCX	10.02					
WVFSYNC	10.02					
WVFCAL	10.02					
DCCL	9.11					
CCL	9.11					
GR	7.78	GR-Probe275dig (FW1403-107) Probe Digital Gamma CCL	4.78	2.75	57.00	
			CNT-275Dig (FW1409-35) Probe Digital CNL	5.24	2.75	40.00

CNLSC	1.91		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
CNSSC	1.48					

Dataset:	caerus_14d-35_rcbl_cnl_6-22-2022.db: field/well/run1/main1
Total length:	18.77 ft
Total weight:	237.00 lb
O.D.:	3.25 in

	Company	Caerus Piceance LLC.	
	Well	BJU G35 Fed 14D-35-496	
	Field	Grand Valley	
	County	Garfield	
	State	Colorado	
			Country