



RADIAL CEMENT
BOND LOG

Company		CONFLUENCE					
Well		70 RANCH 10-12-3L					
Field		WATTENBERG					
County		WELD					
State		COLORADO					
Country							
Location:		API # : 05-123-50188					
SEC		TWP					
Log Measured From		GROUND LEVEL Elevation 4599'					
Drilling Measured From		KELLY BUSHING = 23'					
Other Services		NONE					
Elevation		K.B. 4622'					
		D.F. 4622'					
		G.L. 4599'					
Date		25 JULY 2019					
Run Number		ONE					
Depth Driller							
Depth Logger		6800'					
Bottom Logged Interval		6800'					
Top Log Interval		SURFACE					
Open Hole Size							
Type Fluid		WATER					
Density / Viscosity		~8.3#					
Max. Recorded Temp.							
Estimated Cement Top		5810'					
Time Well Ready		ROA					
Time Logger on Bottom		0930					
Equipment Number		W-060					
Location		WINDSOR, CO					
Recorded By		T. HAWLEY					
Witnessed By		JUSTIN GALE					
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
1							
2							
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String			0'				
Prot. String							
Production String			0'				
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

THANK YOU FOR USING CUTTERS WIRELINE

DATE OF SHOP CALIBRATION: 10/18

LOG RAN UNDER 0PSI

LOG ZEROED AT GROUND LEVEL, ADJUSTING +24' FOR MARKER JOINT AT 5938'-5959'

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Standard Standard Cable Head	1.00	1.69	1.00

Database File:		70 RANCH 10-12-3L.db	Calibration Report
Dataset Pathname:		pass13	
Dataset Creation:		Thu Jul 25 21:31:06 2019 by Log 7.0 B1	

Gamma Ray Calibration Report

Serial Number: DIG110254
 Tool Model: 275D_INC
 Performed: Sun Jun 13 13:33:21 1993

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Inclinometer Calibration Report

Performed: Sun Jun 13 13:33:21 1993

	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

Segmented Cement Bond Log Calibration Report

Serial Number: 110217
 Tool Model: Probe

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 594.267 ft

Master Calibration, performed Thu Jul 25 20:39:48 2019:


	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.018	0.420	2.000	71.921	174.117	-1.158
CAL	0.015	1.002				
5'	0.014	0.610	2.000	71.921	117.294	0.376
SUM						
S1	0.006	0.388	0.000	100.000	261.333	-1.464
S2	0.013	0.486	0.000	100.000	211.609	-2.777
S3	0.012	0.387	0.000	100.000	266.615	-3.115
S4	0.013	0.417	0.000	100.000	247.477	-3.226
S5	0.015	0.401	0.000	100.000	258.864	-3.849
S6	0.011	0.442	0.000	100.000	231.818	-2.476
S7	0.011	0.382	0.000	100.000	269.093	-2.897
S8	0.019	0.457	0.000	100.000	228.329	-4.315

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.015	1.002	1.000	0.000

Air Zero Calibration, performed Sat Jun 01 01:39:50 2019:

	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

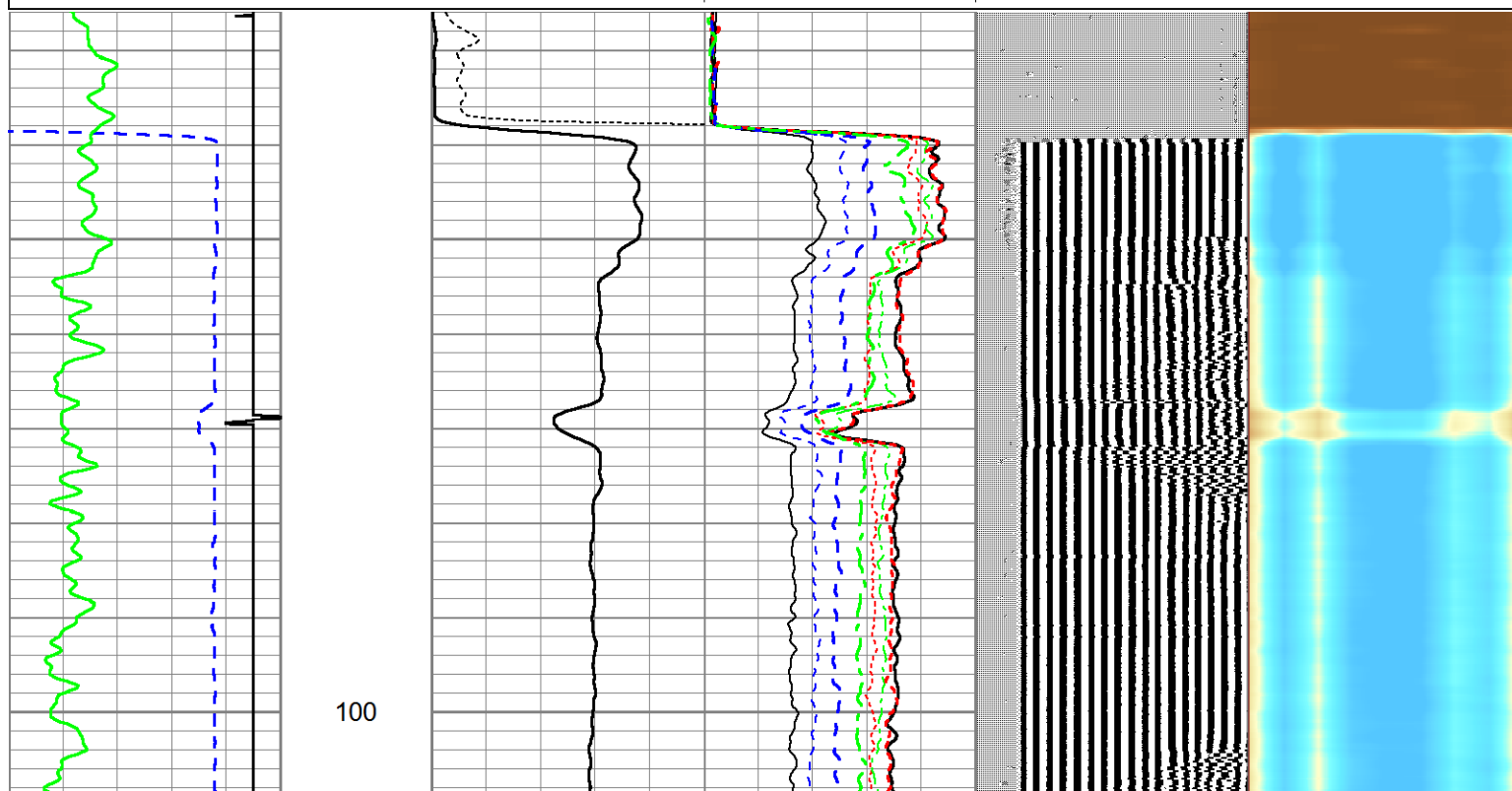


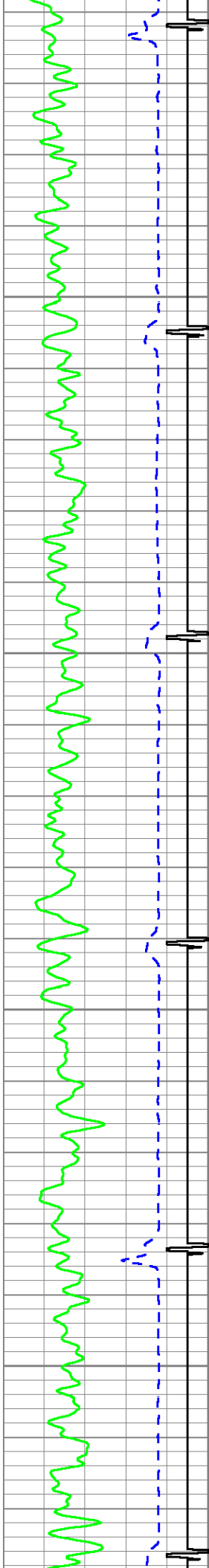
MAIN PASS

5" = 100'

Database File: 70 ranch 10-12-3l.db
 Dataset Pathname: pass13
 Presentation Format: scbl_inc
 Dataset Creation: Thu Jul 25 21:31:06 2019 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

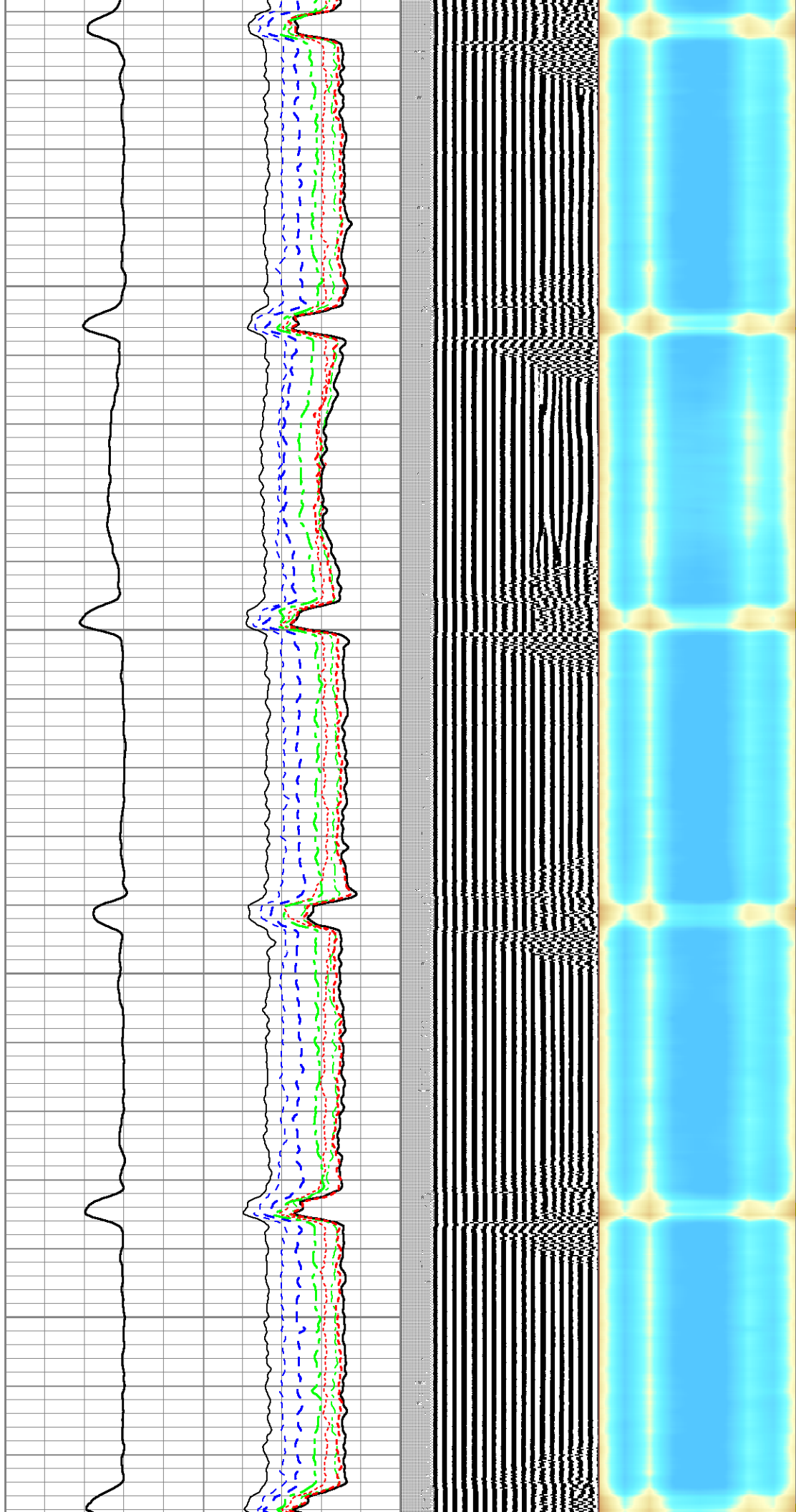
325	TT (usec)	225	0	AMP (mV)	100	-5	AMPS1	150	200	VDL	1200	1	Cement Map	8
-9	CCL	1	0	AMPx10 (mV)	10	-5	AMPS2	150				0		100
0	GR (GAPI)	200				-5	AMPS3	150						
						-5	AMPS4	150						
						-5	AMPS5	150						
						-5	AMPS6	150						
						-5	AMPS7	150						
						-5	AMPS8	150						

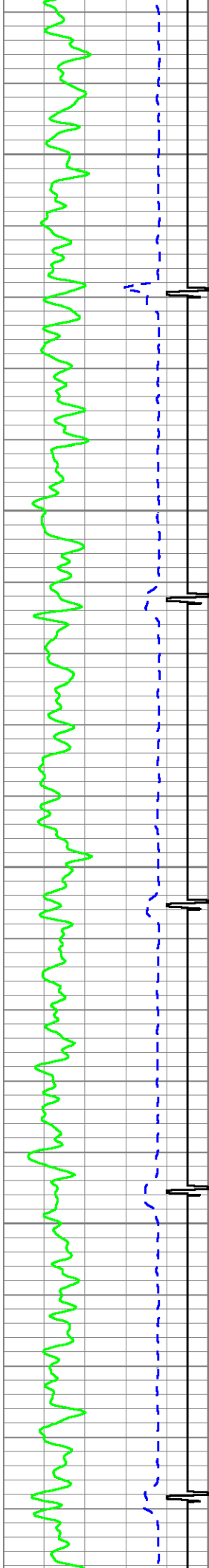




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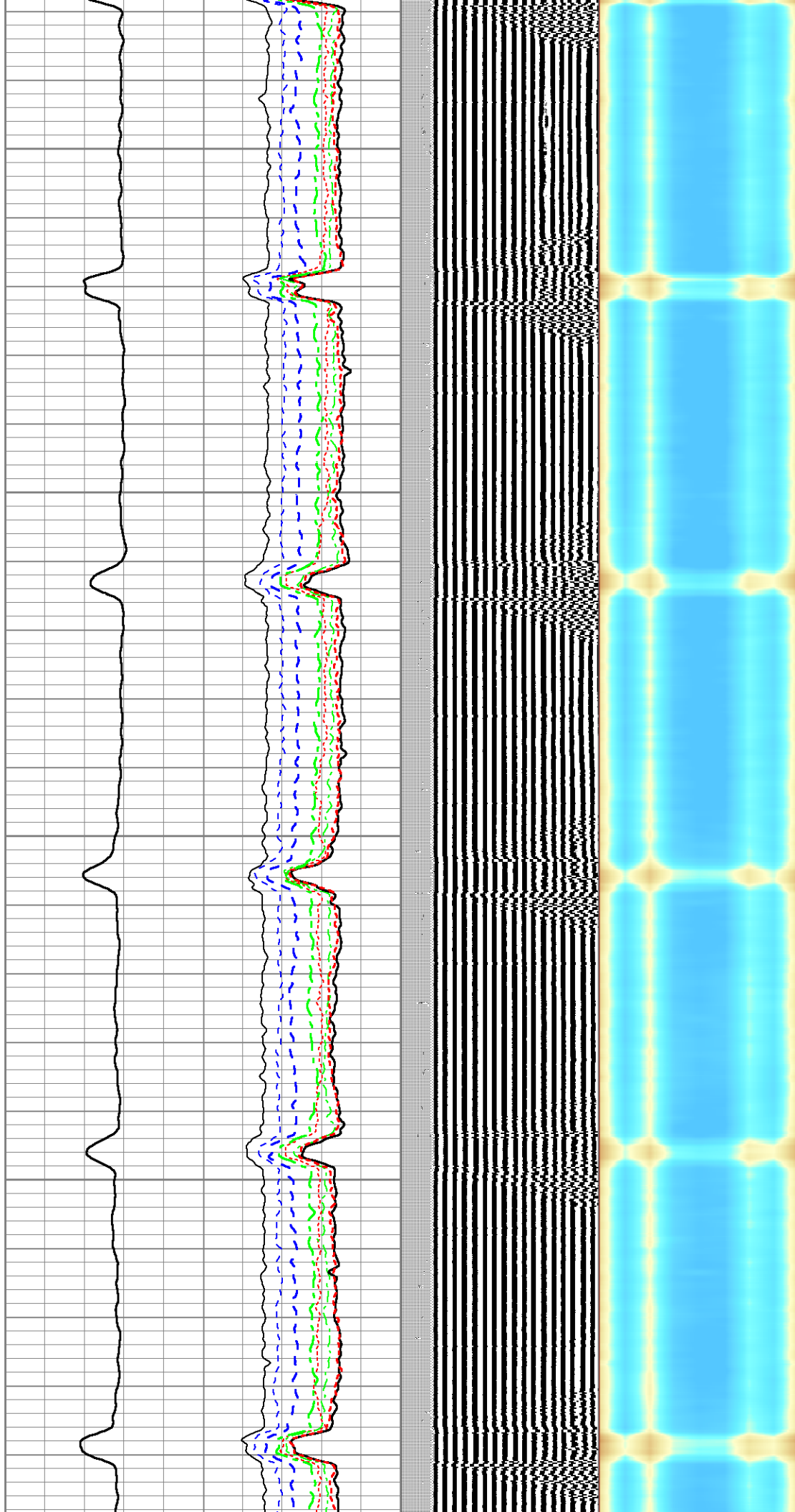
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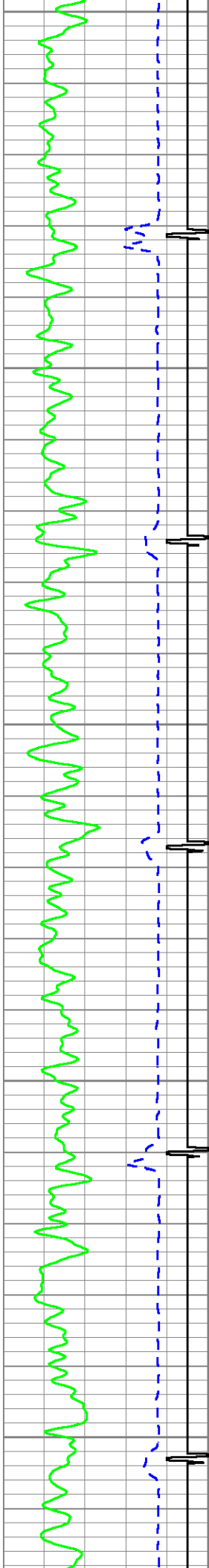




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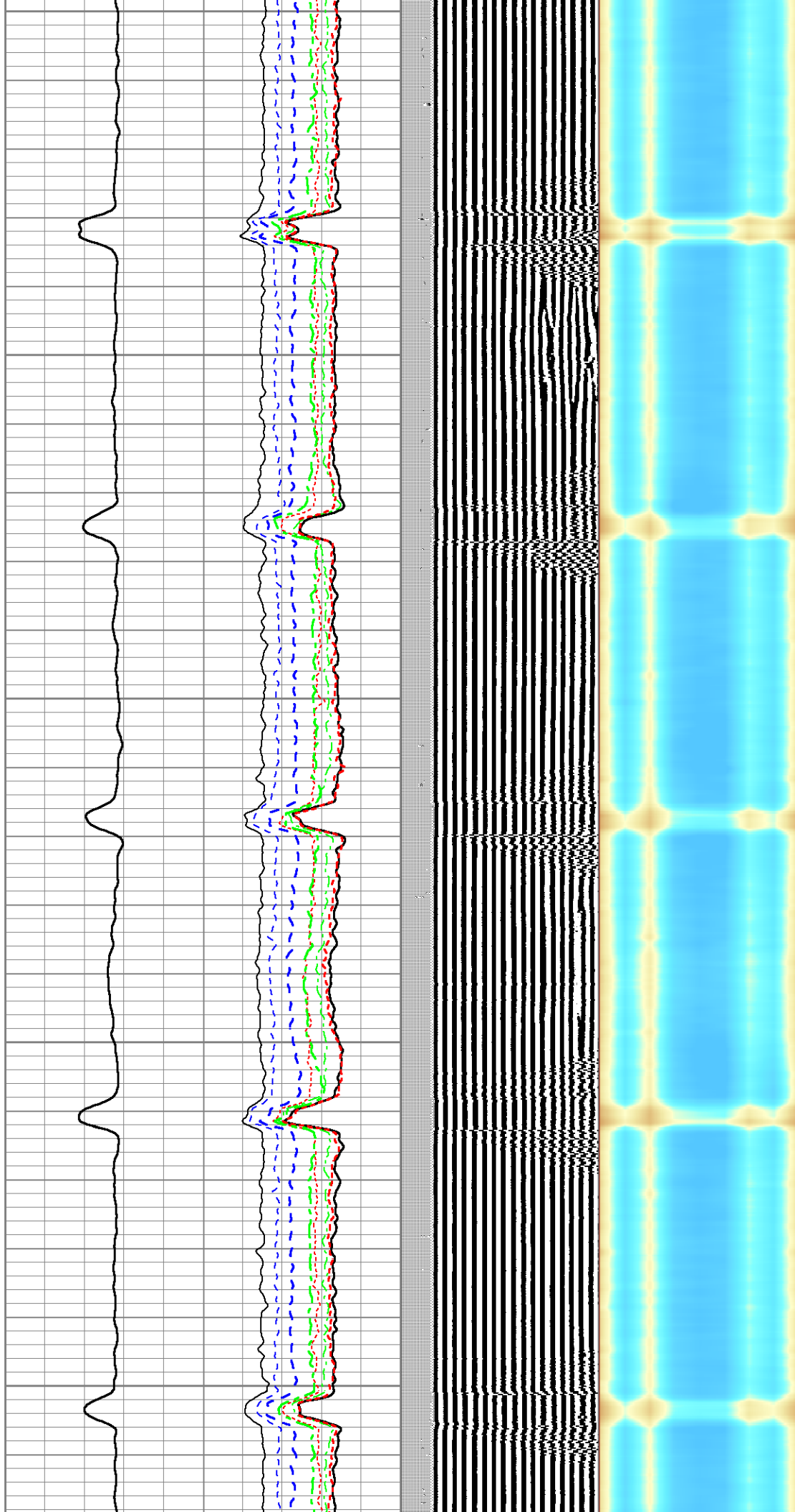
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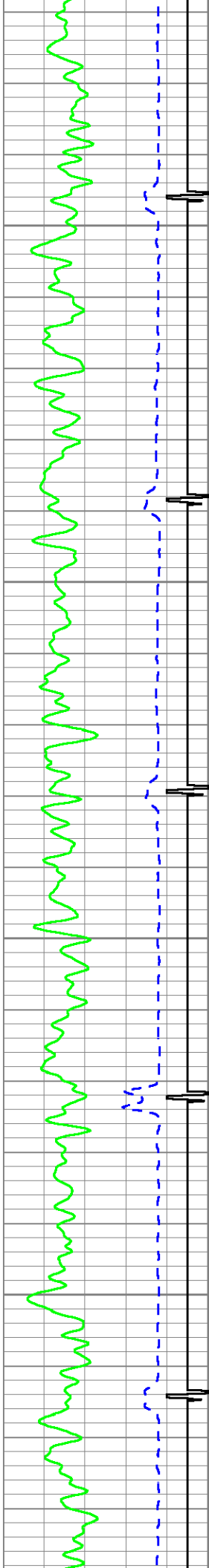




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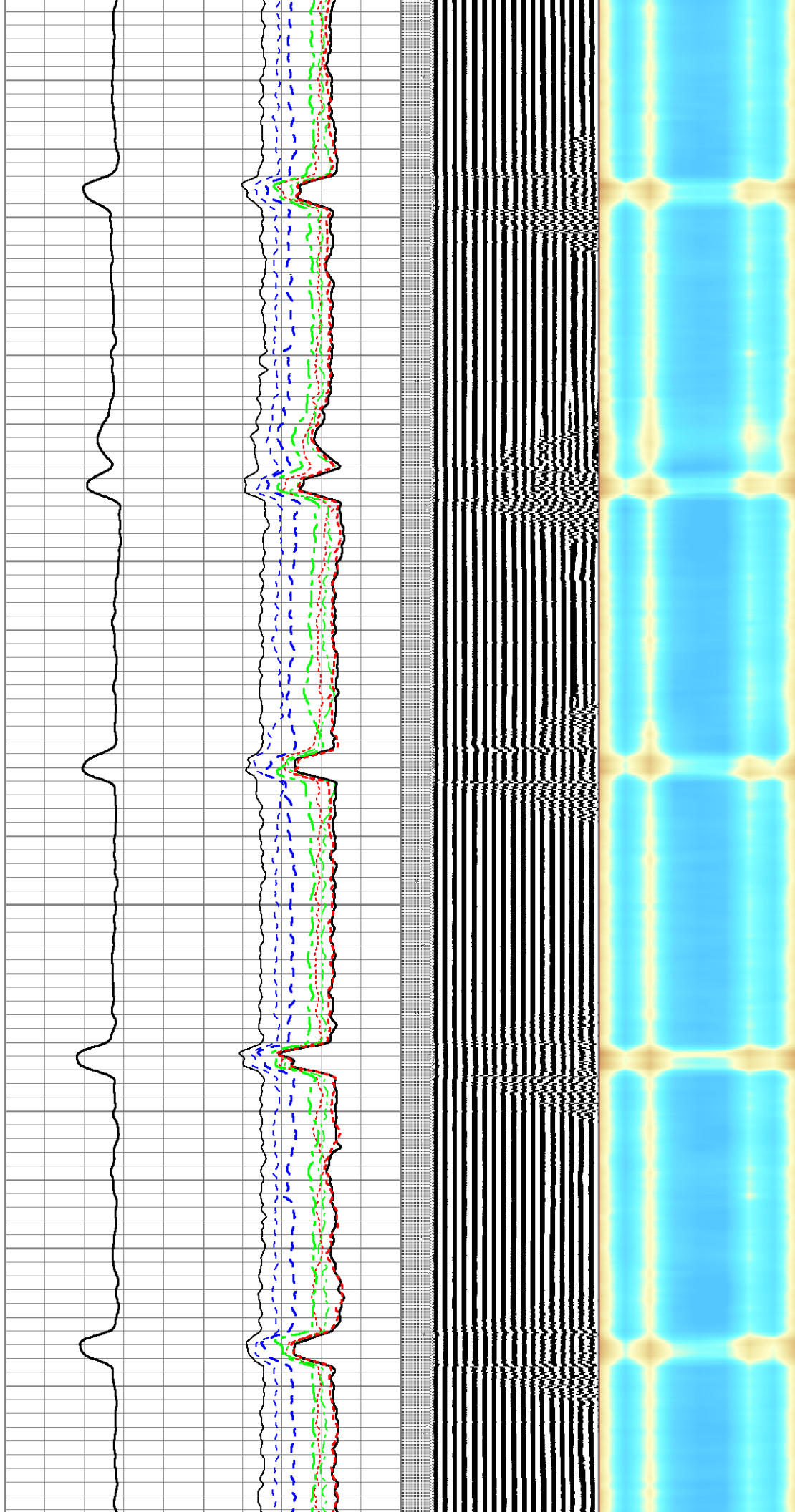
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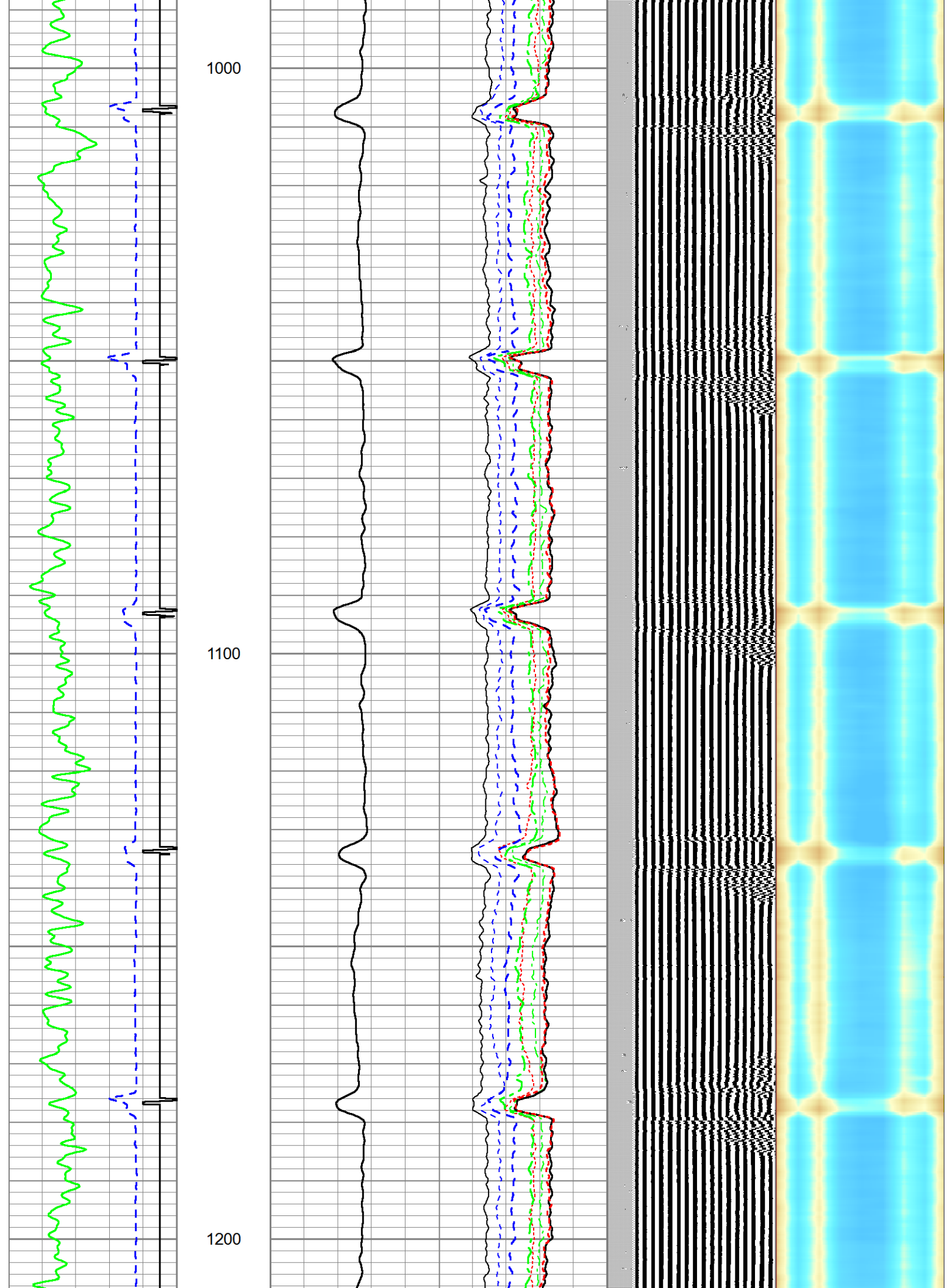


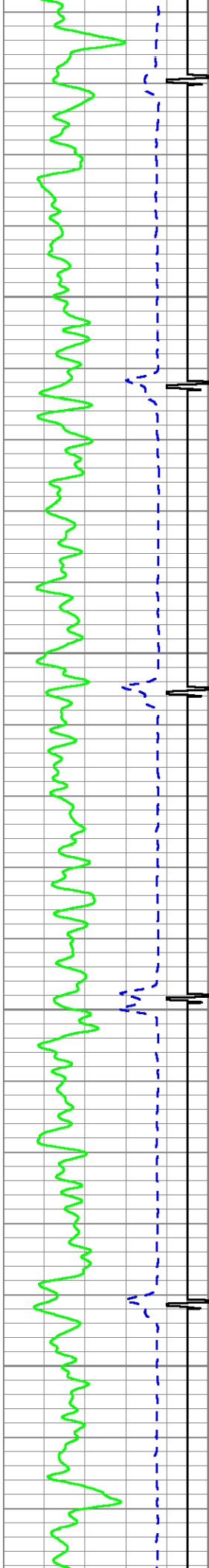


800

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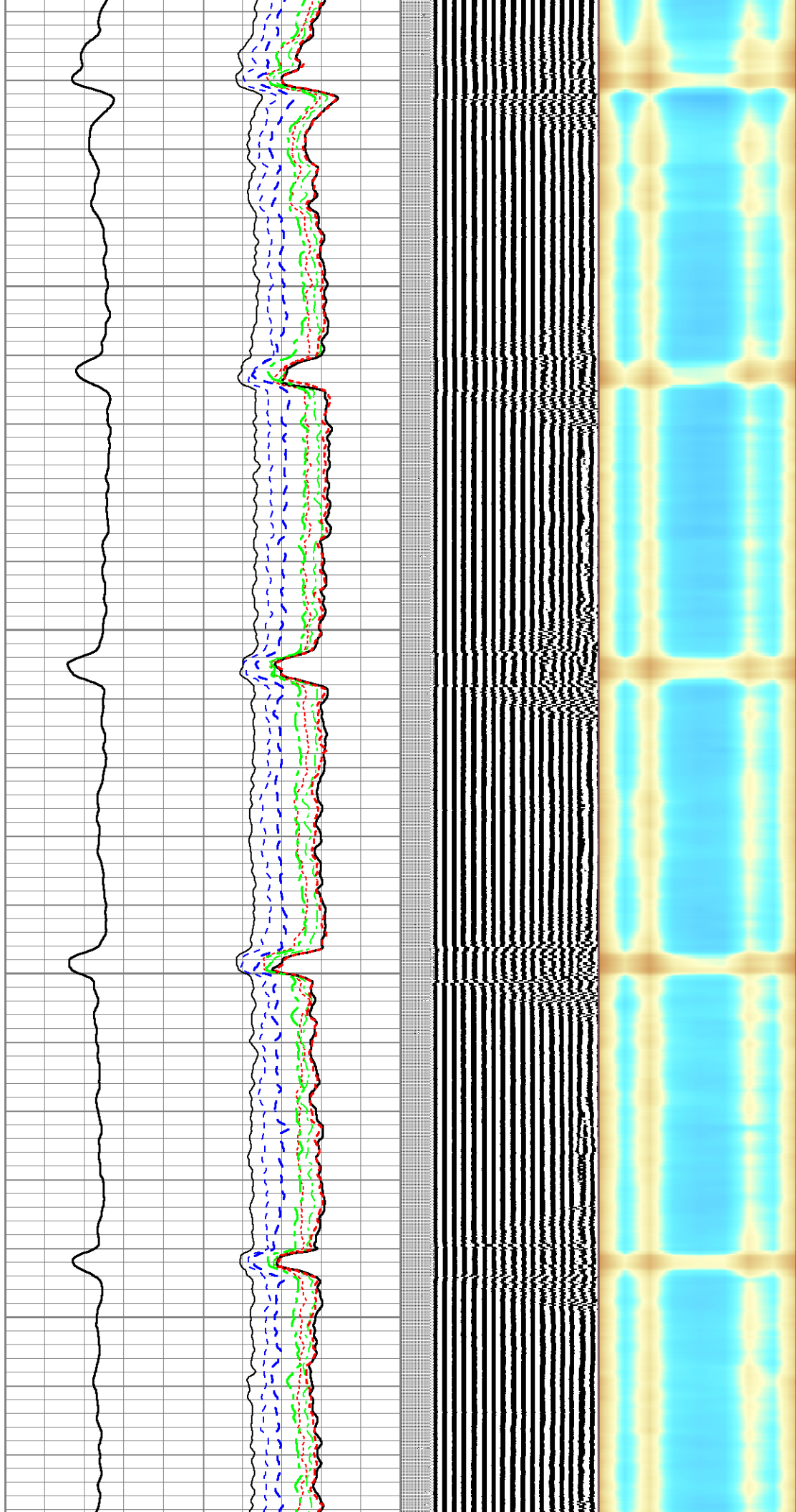


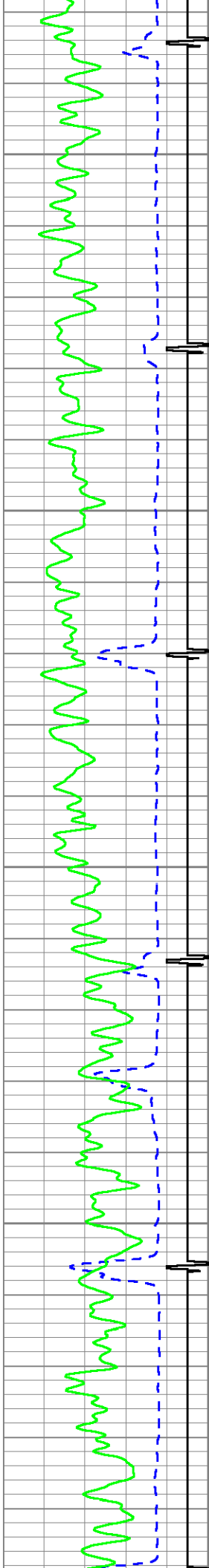




1300

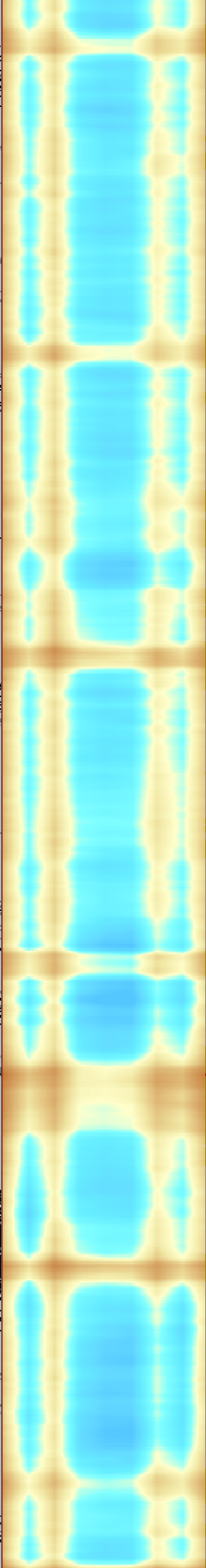
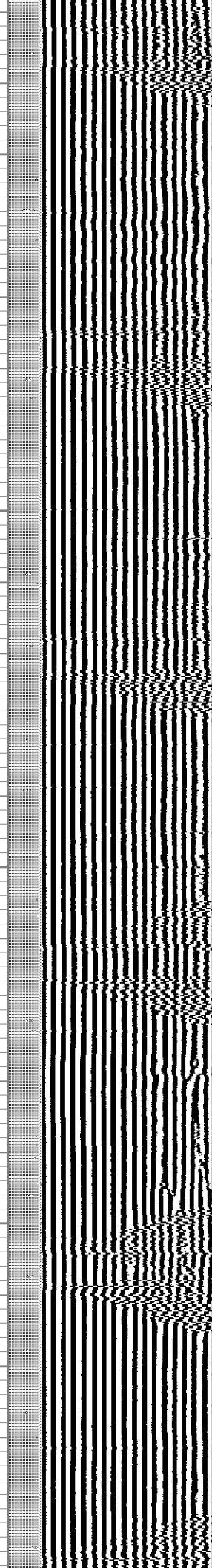
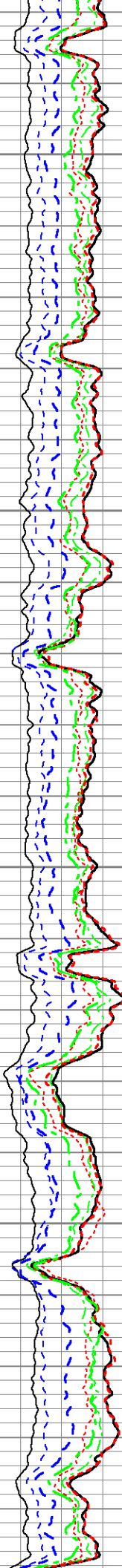
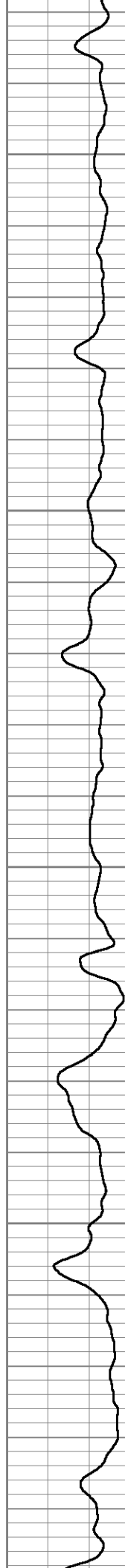
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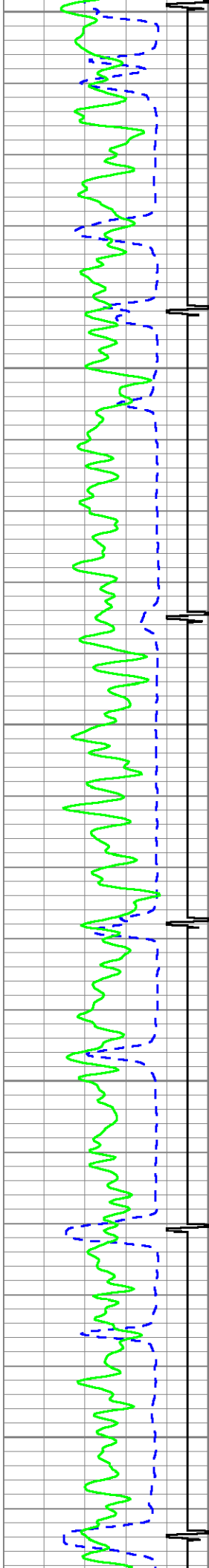




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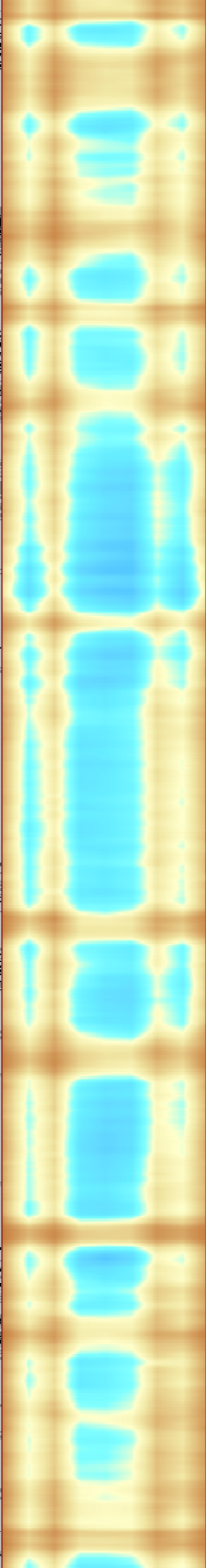
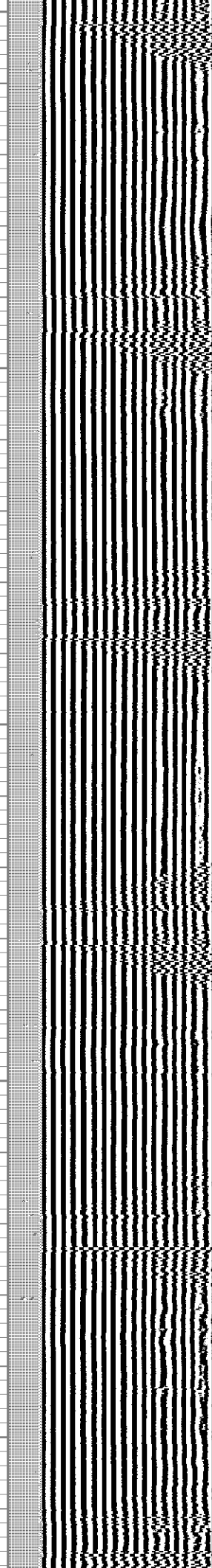
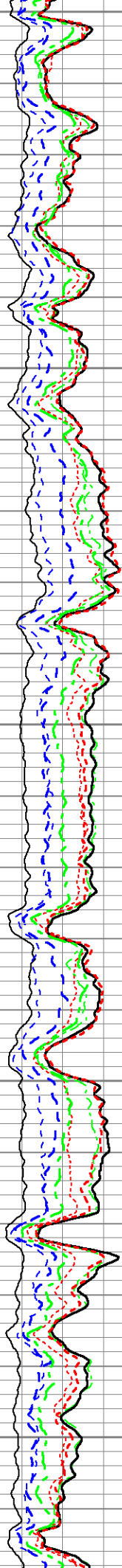
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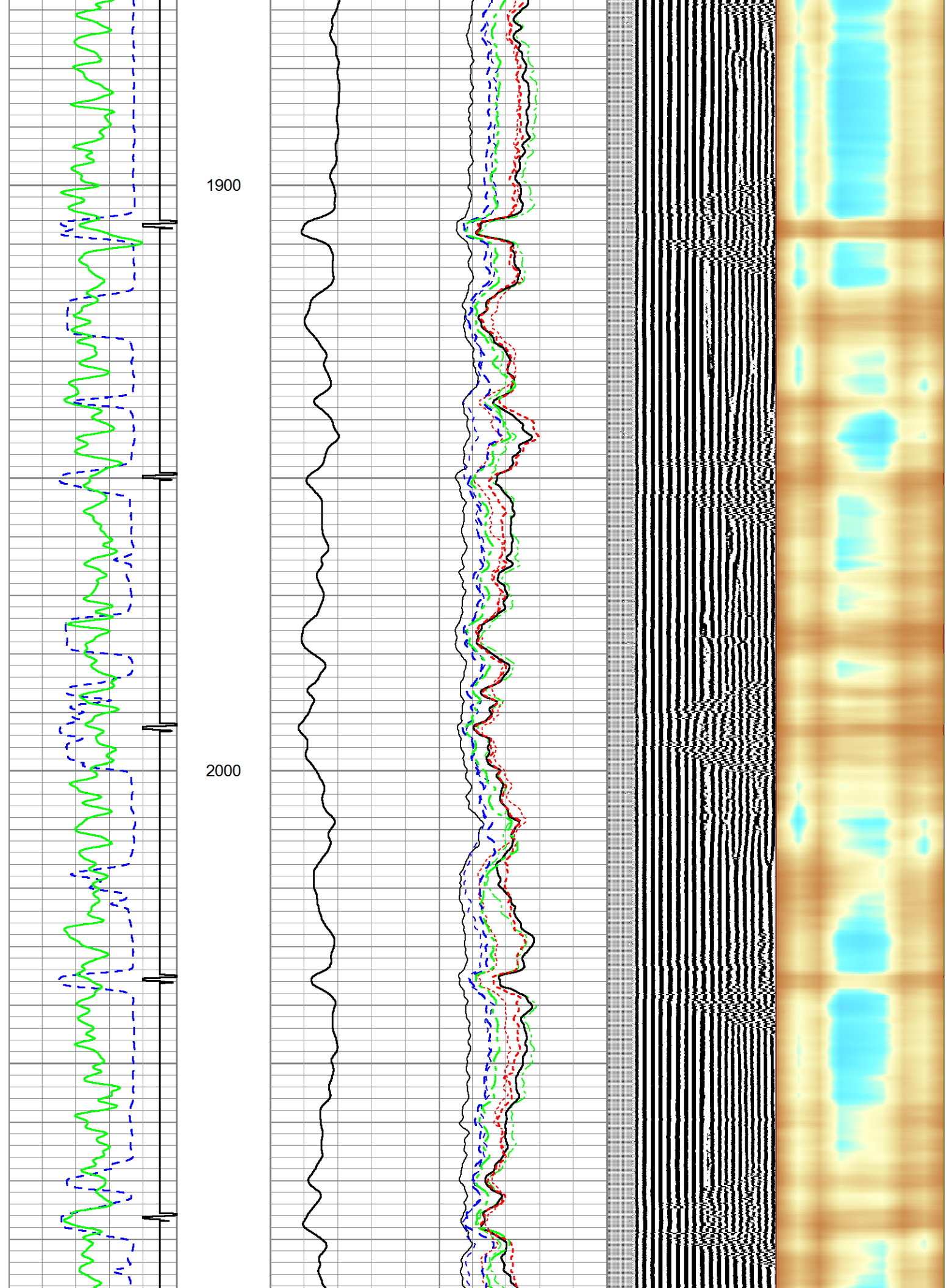




1700

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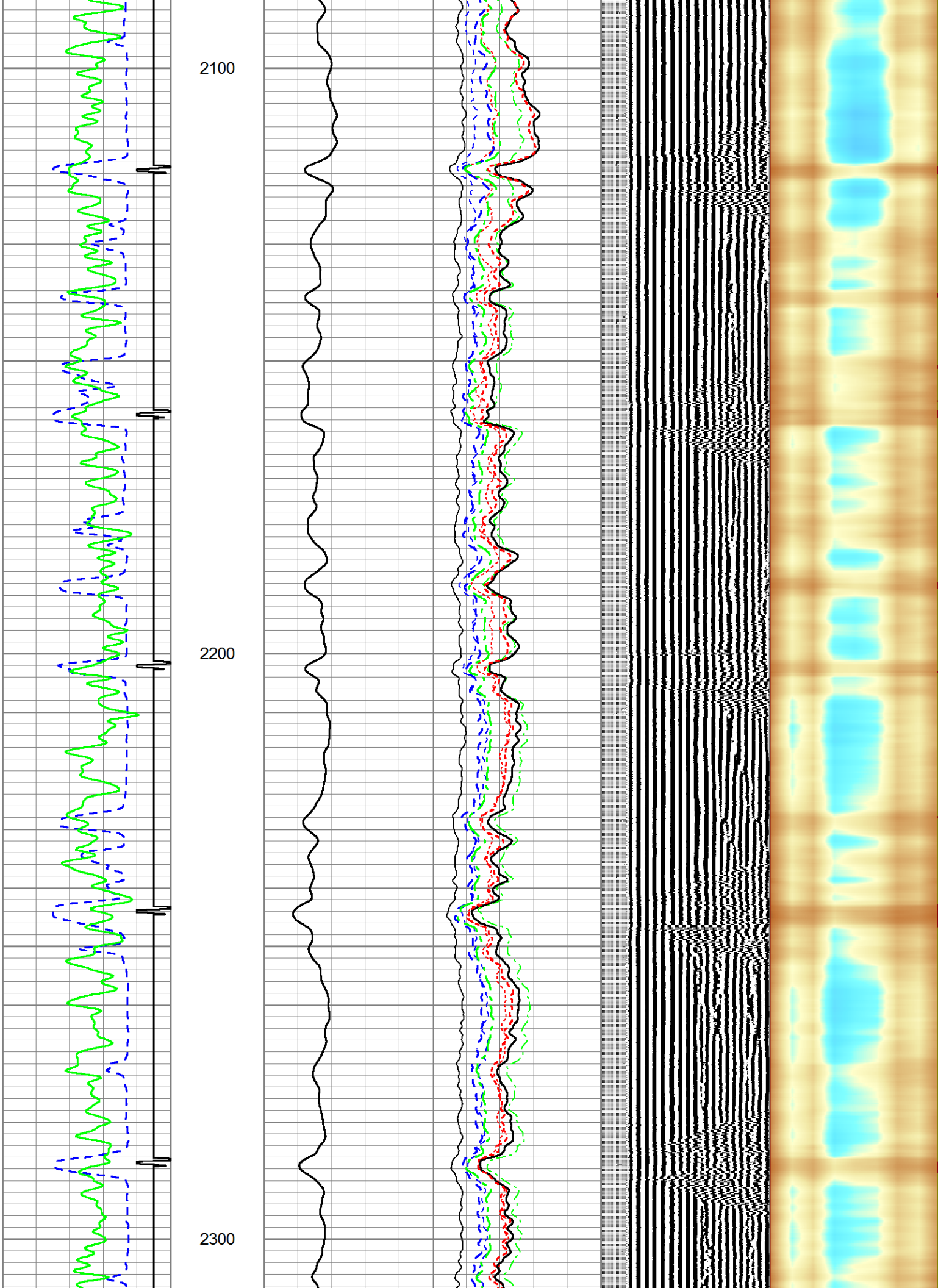


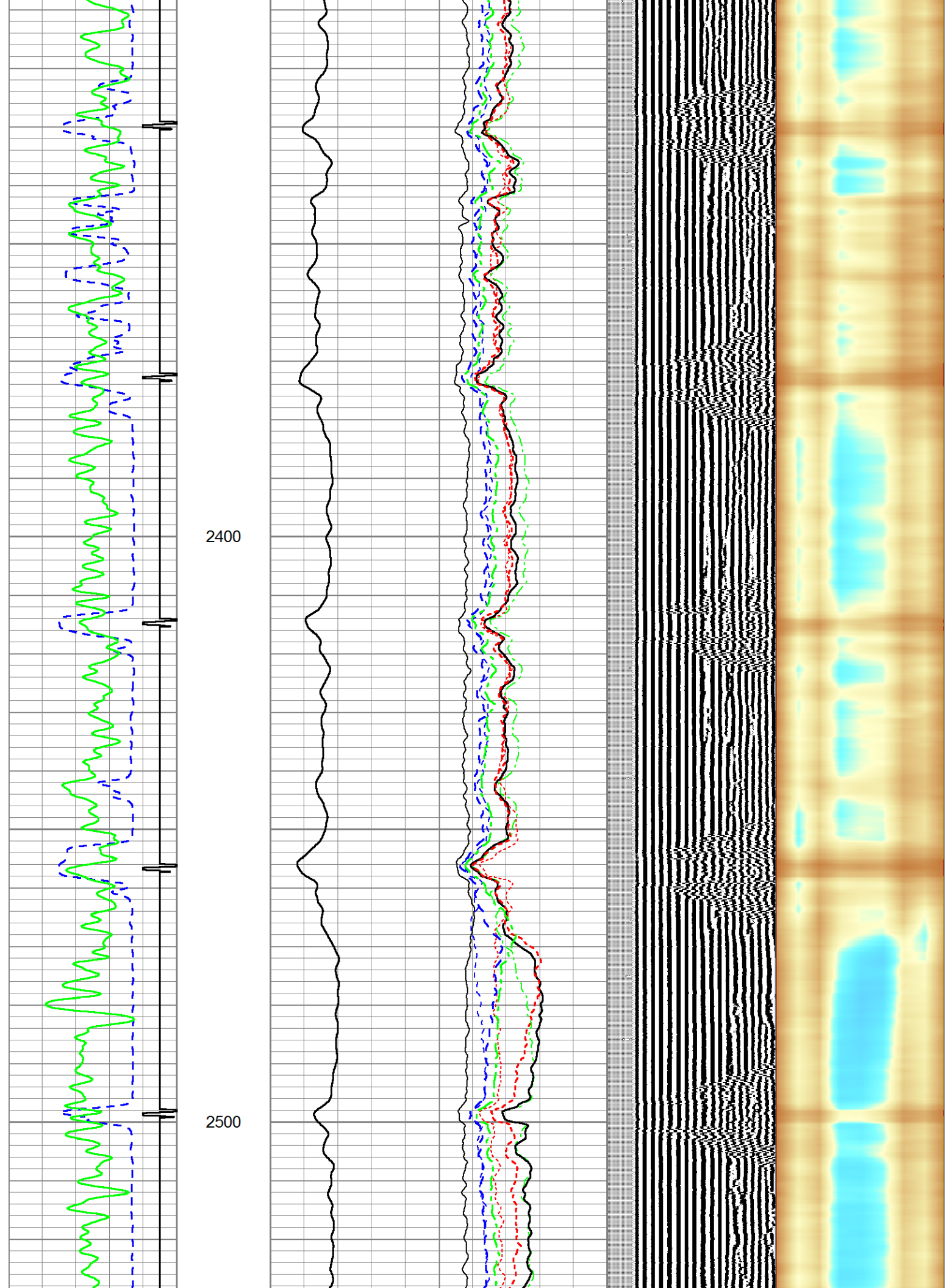


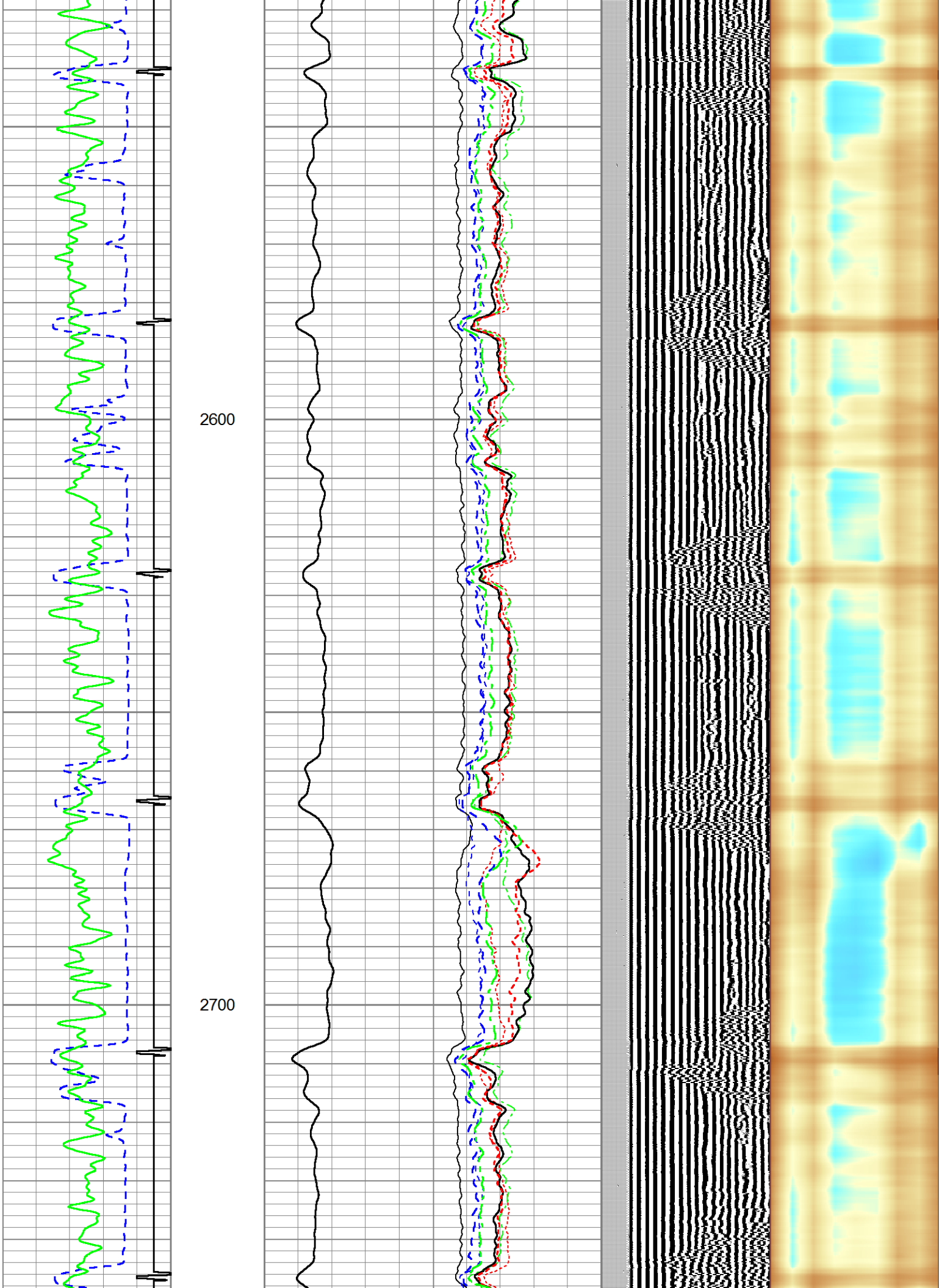
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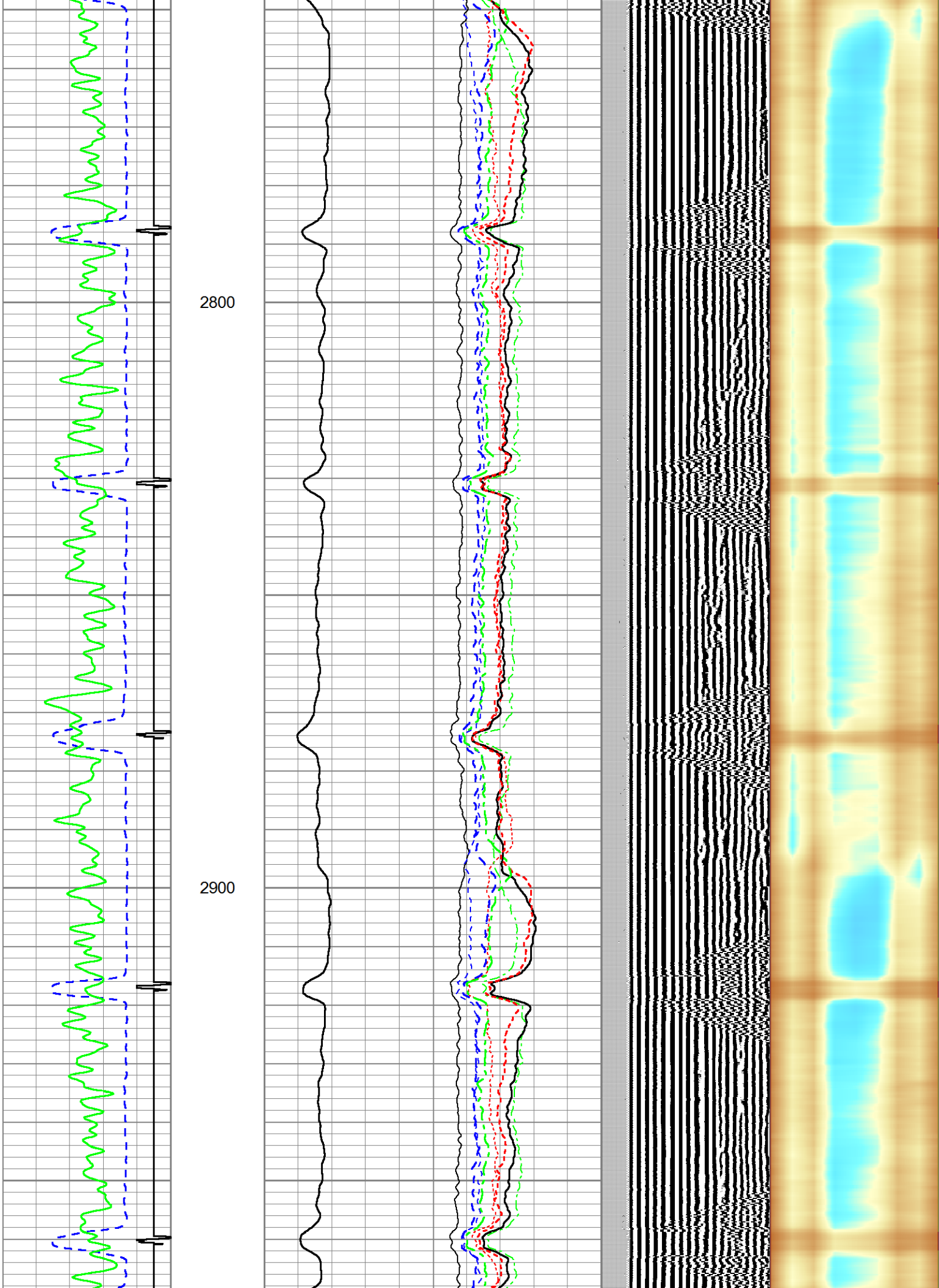
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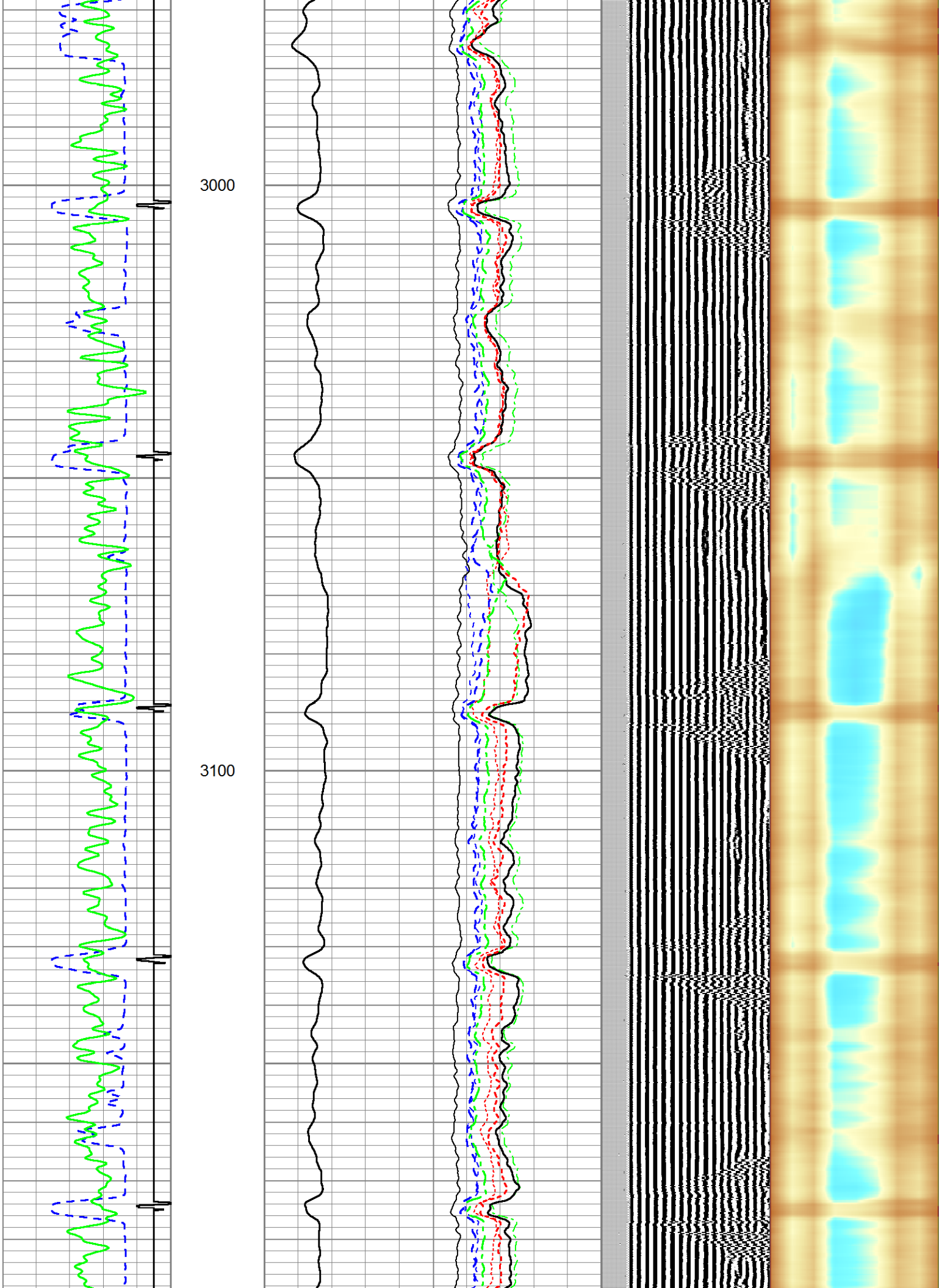
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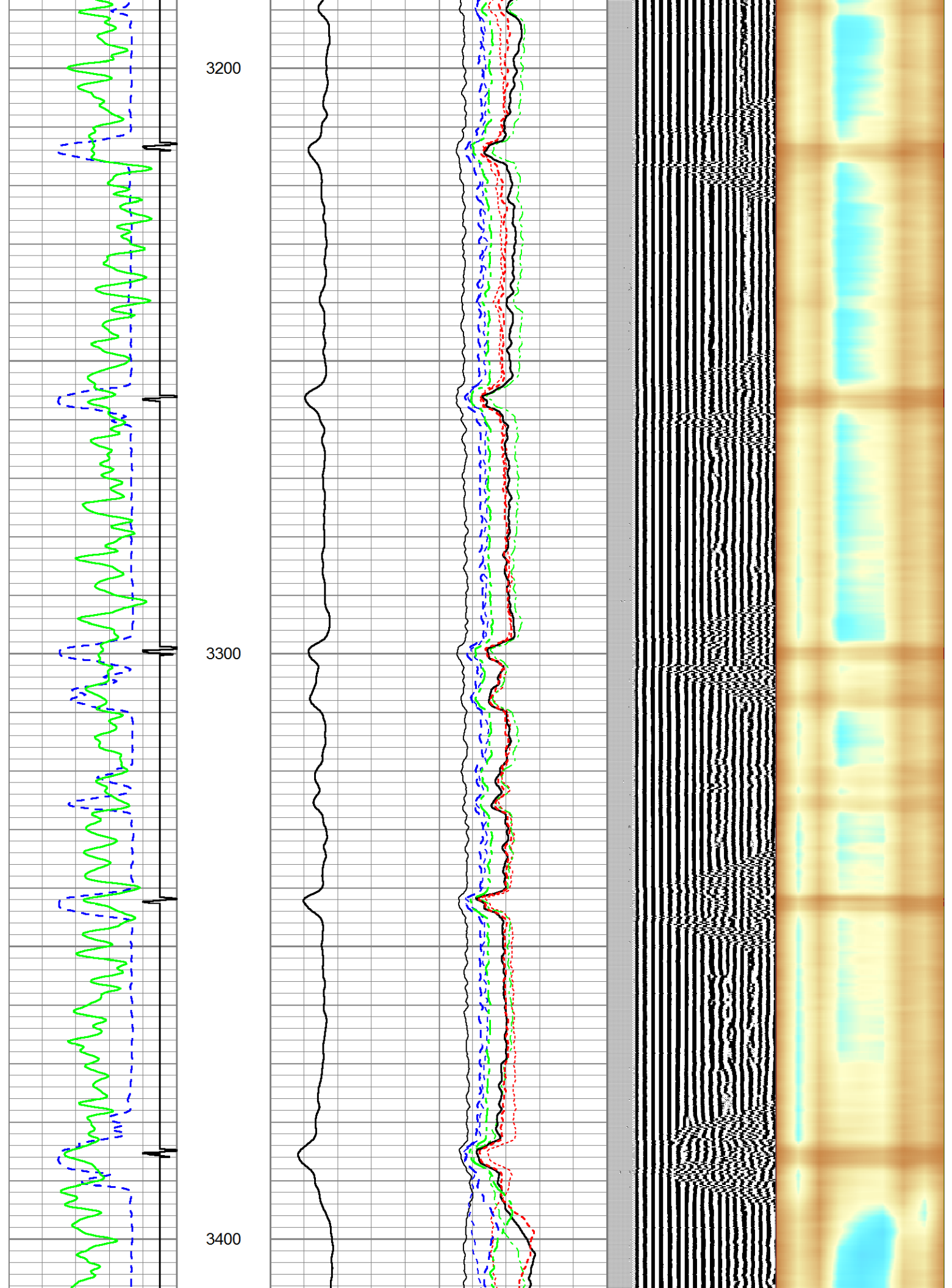


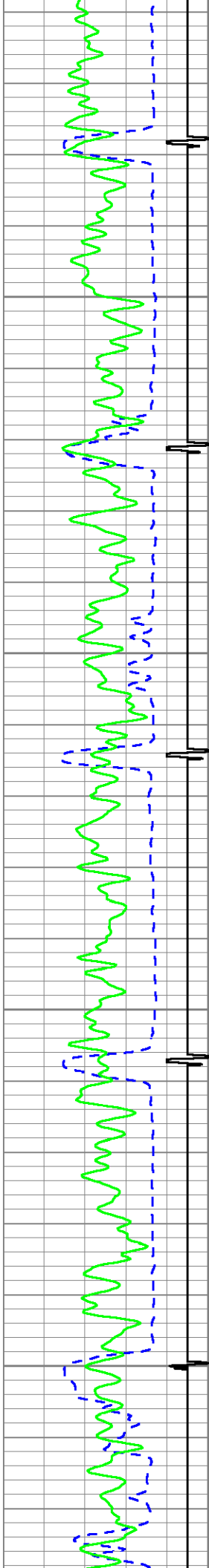






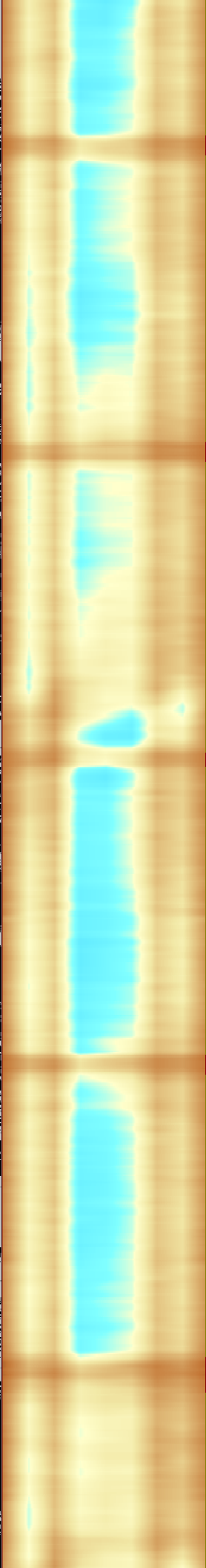
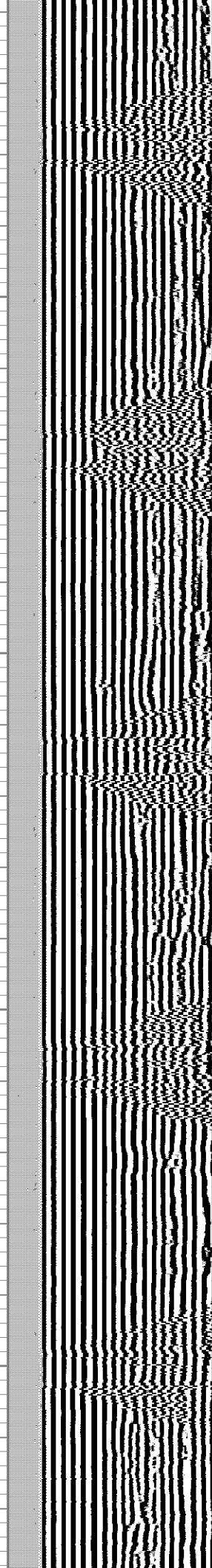
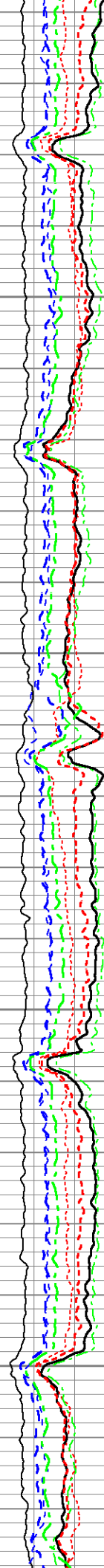


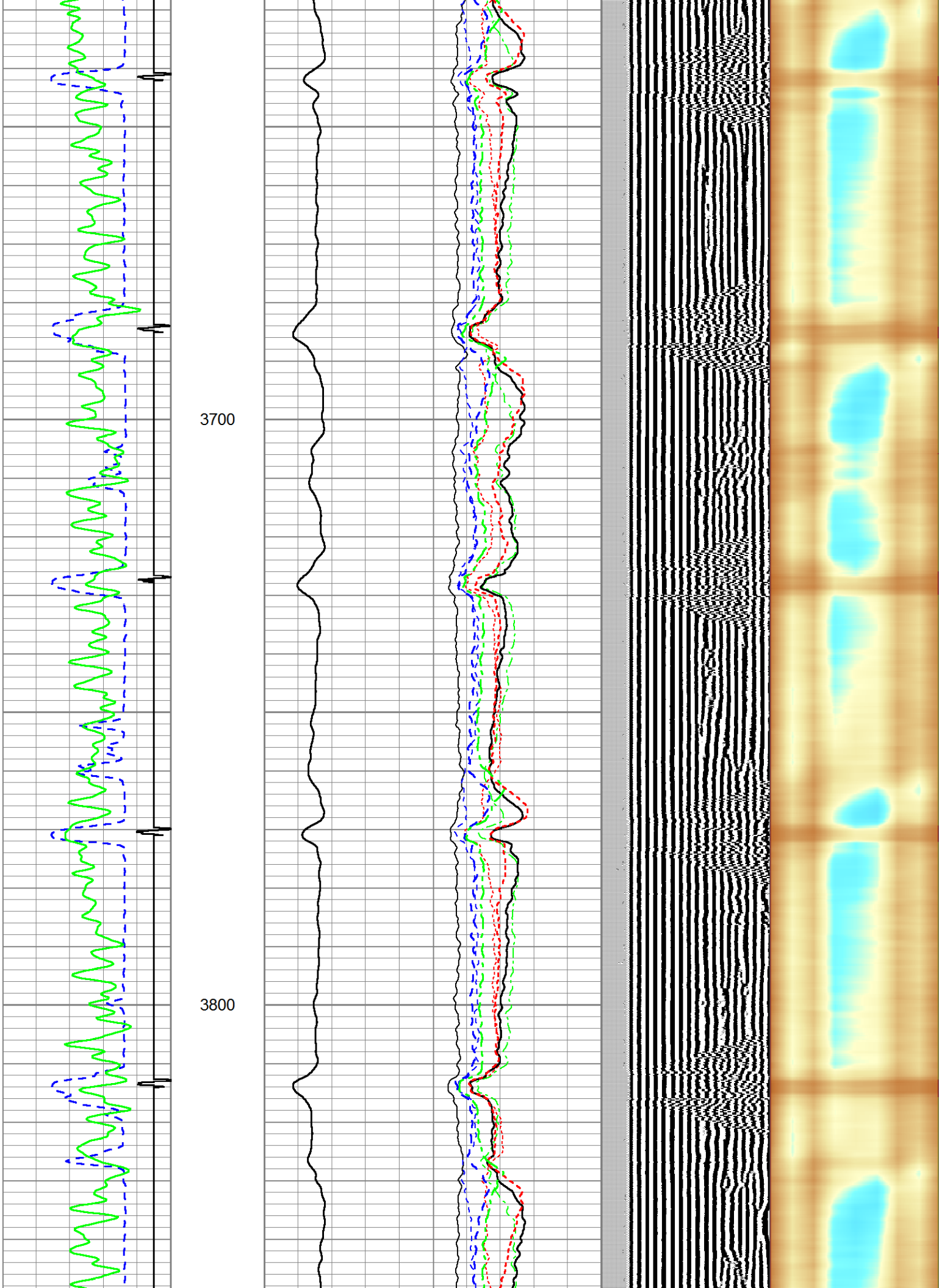


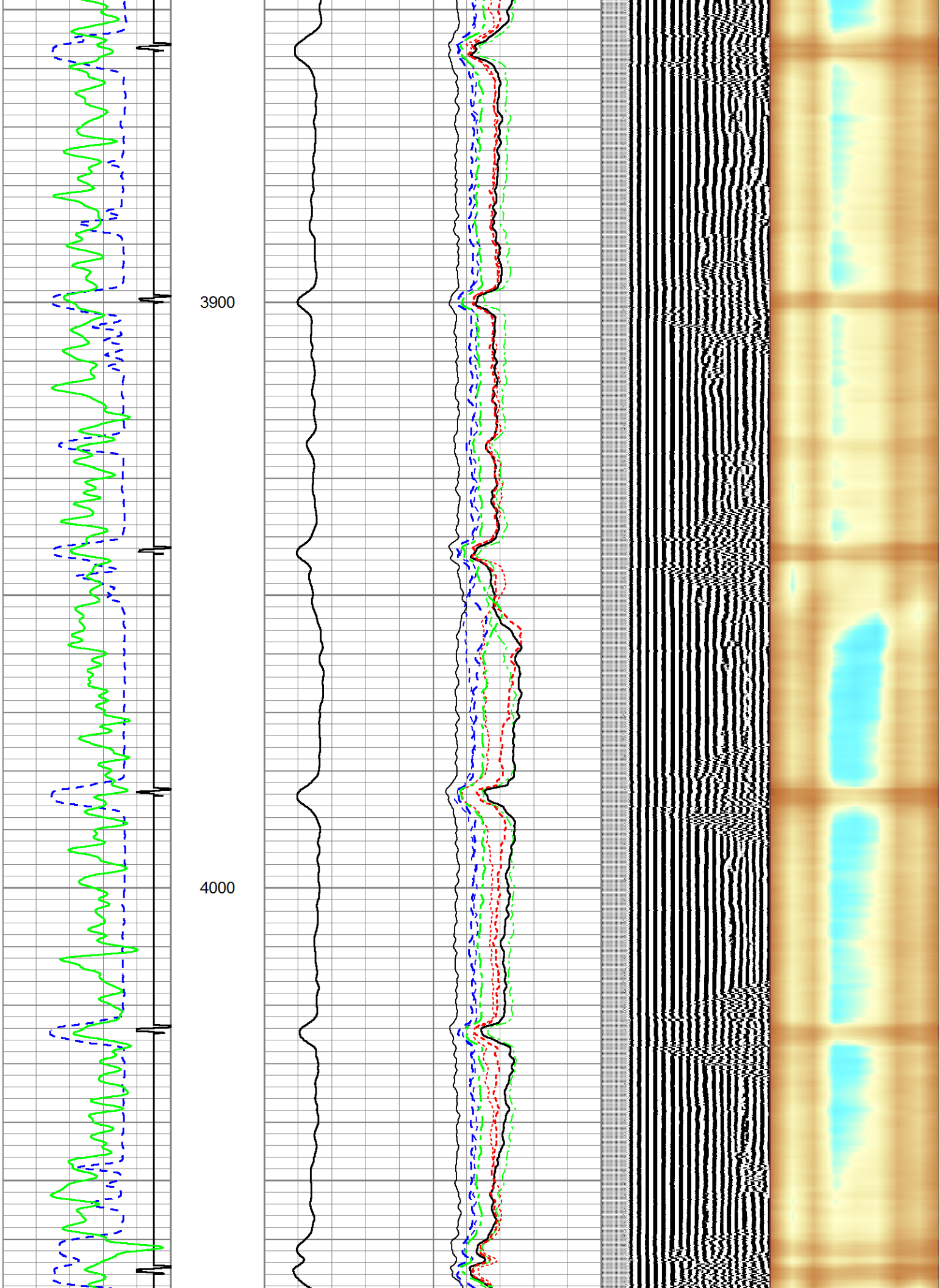


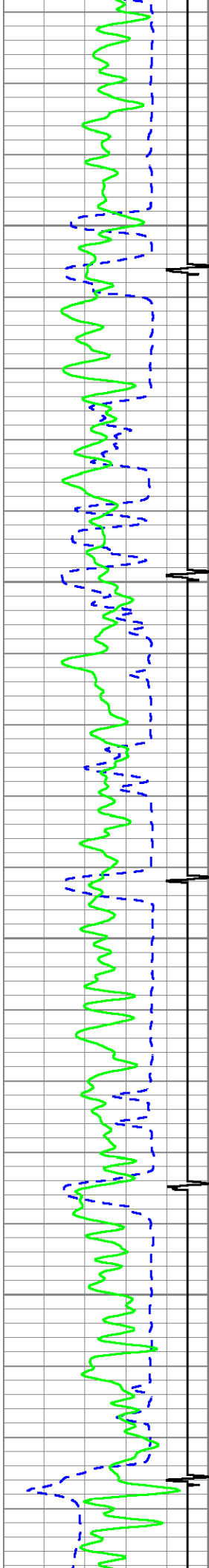
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3600



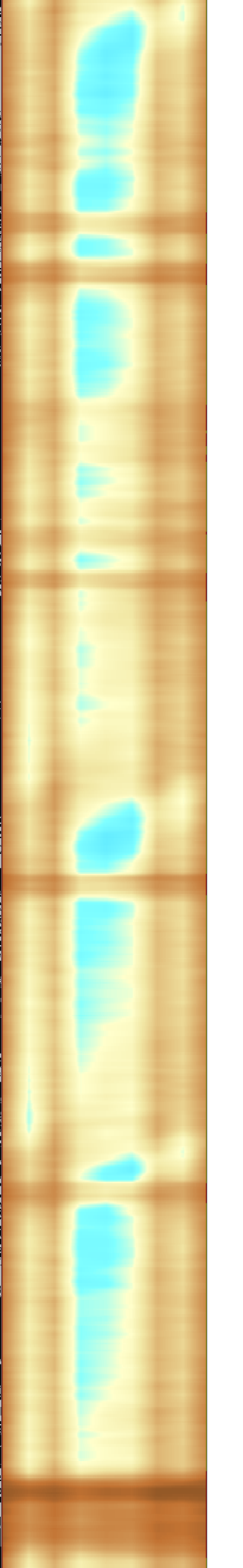
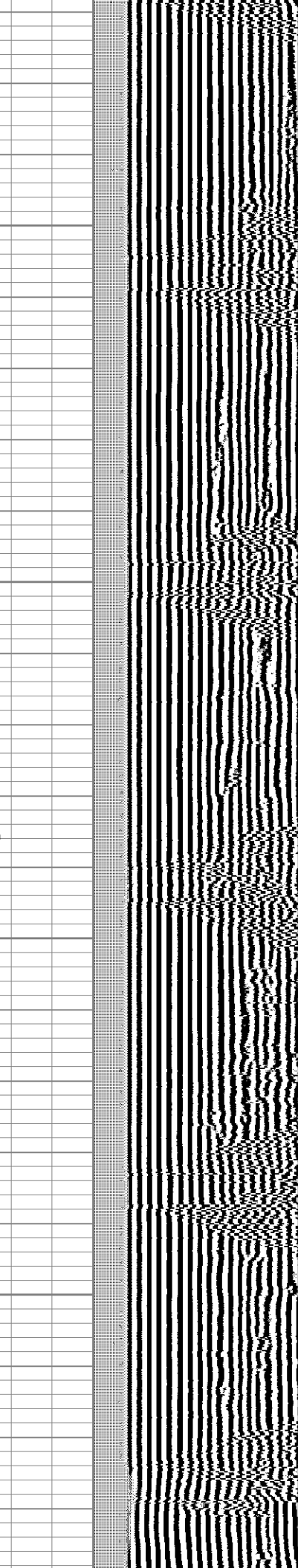
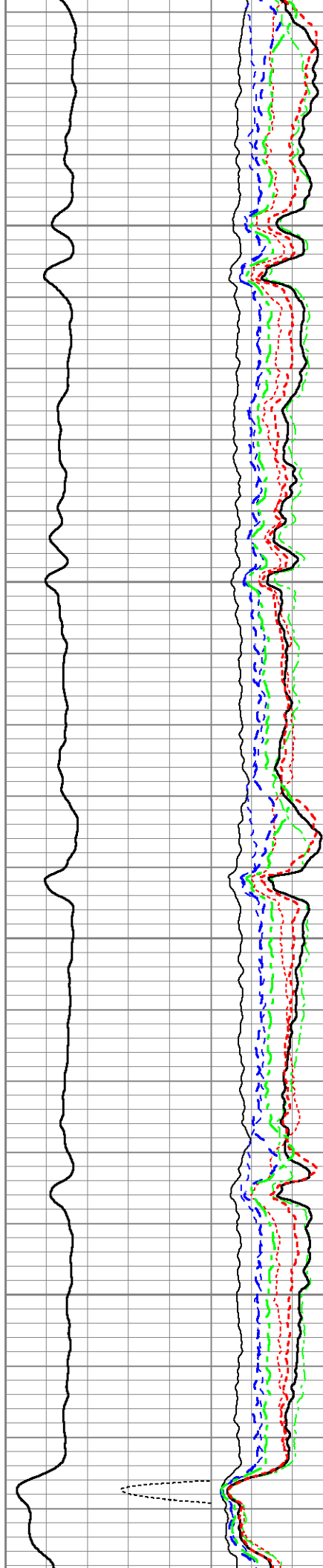


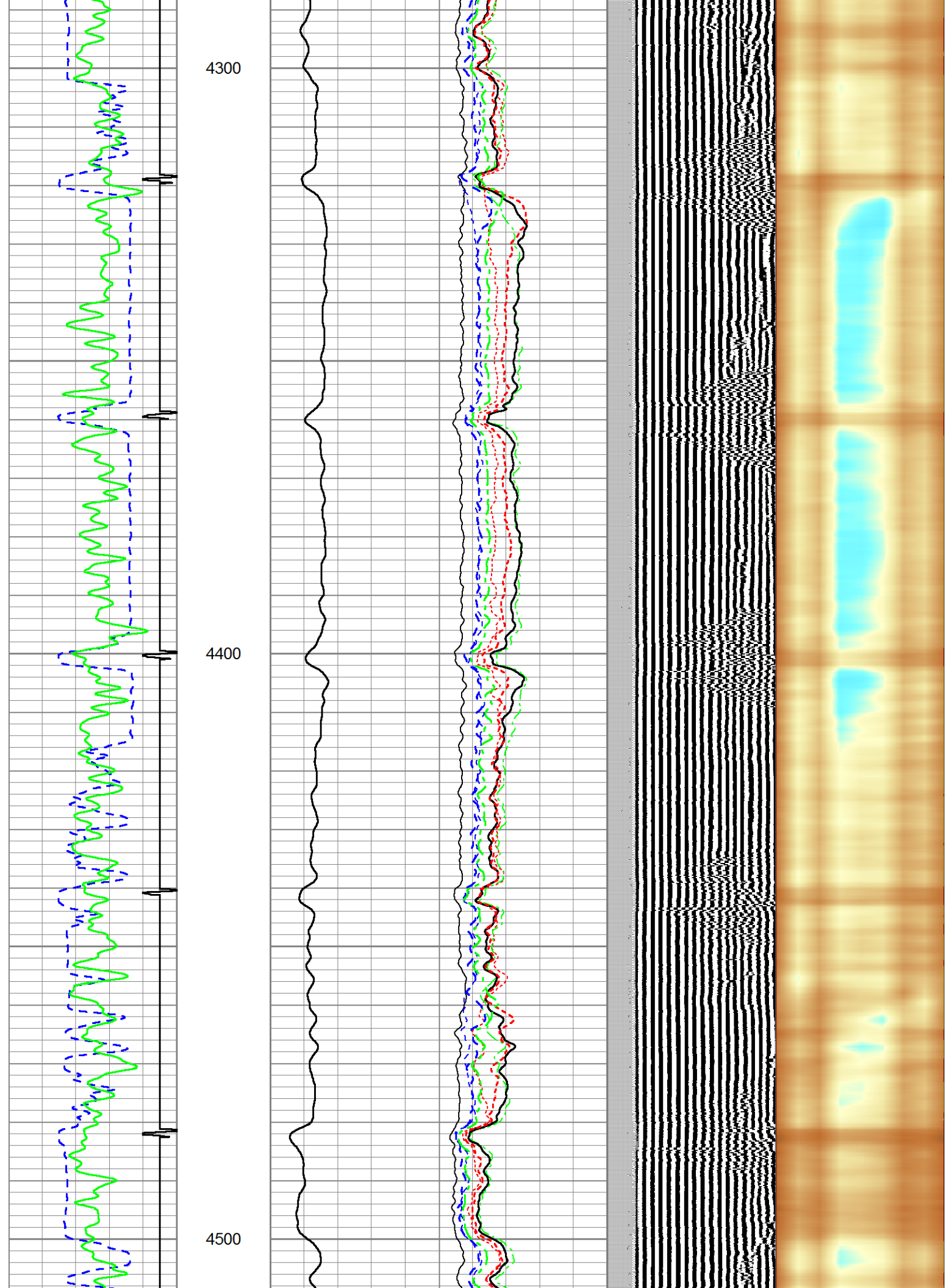


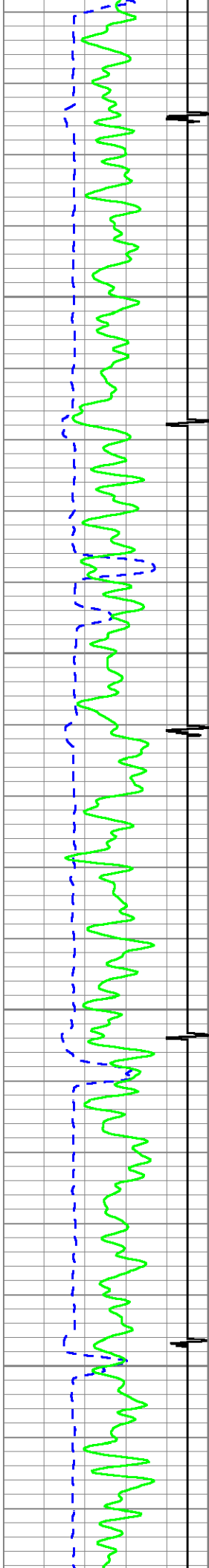


4100

4200

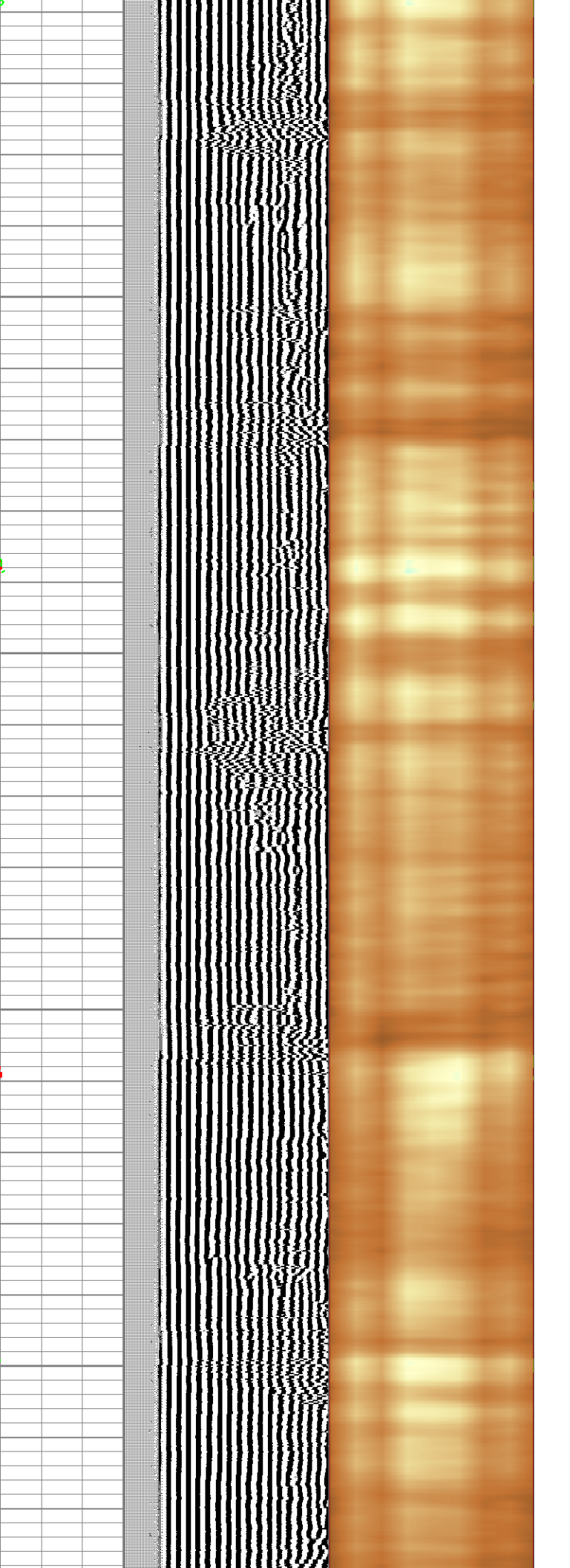
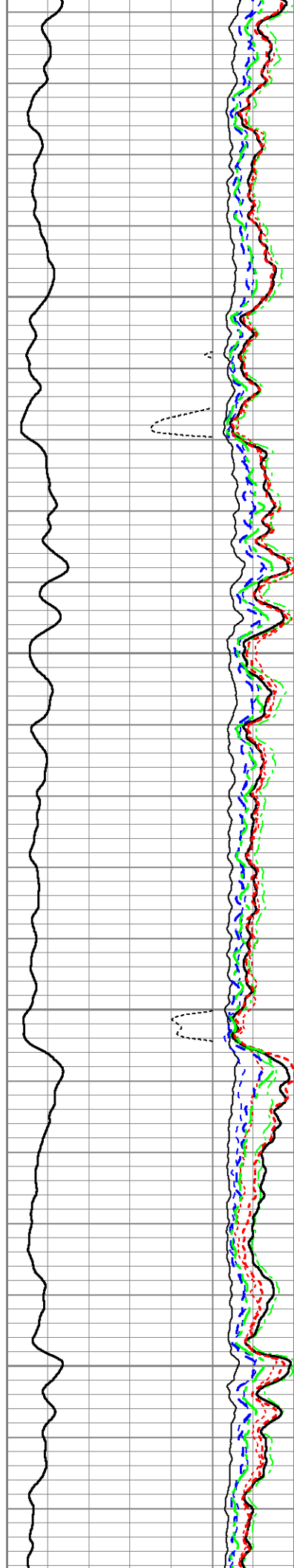


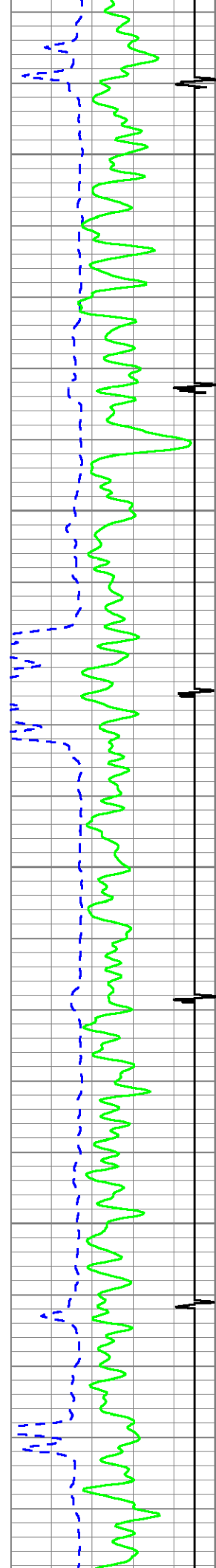




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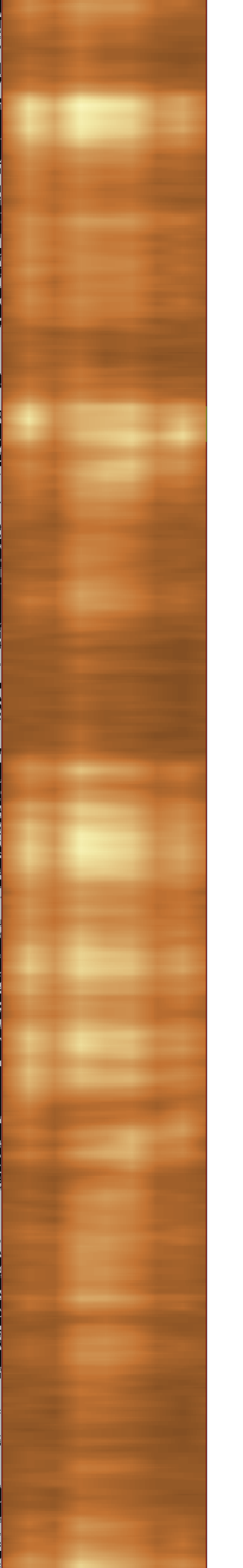
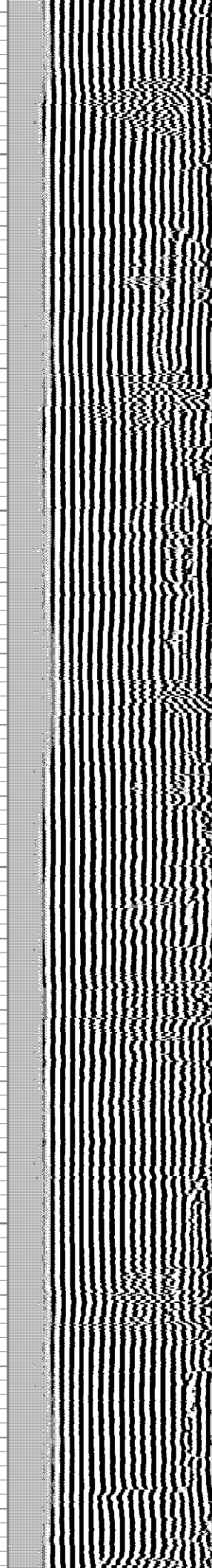
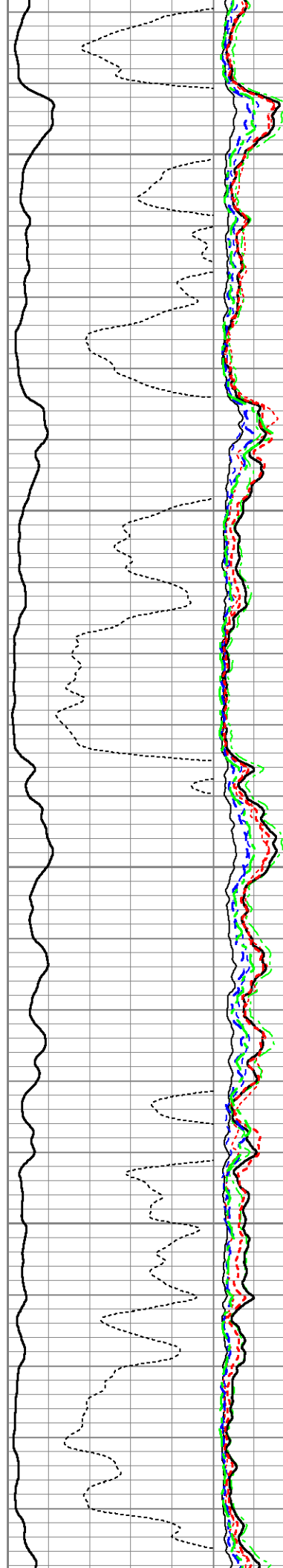
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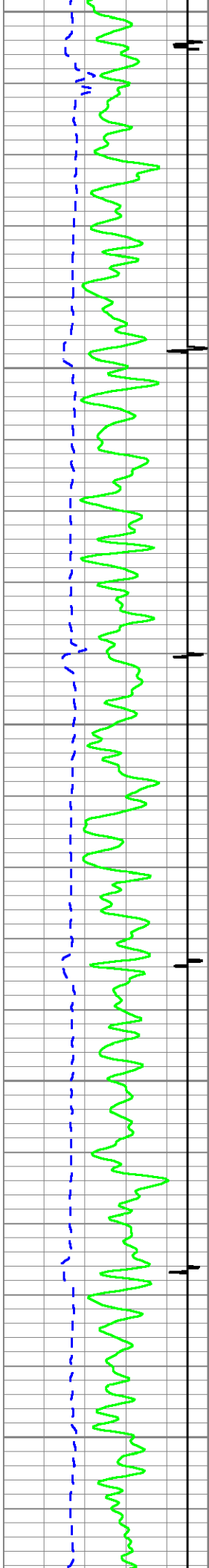




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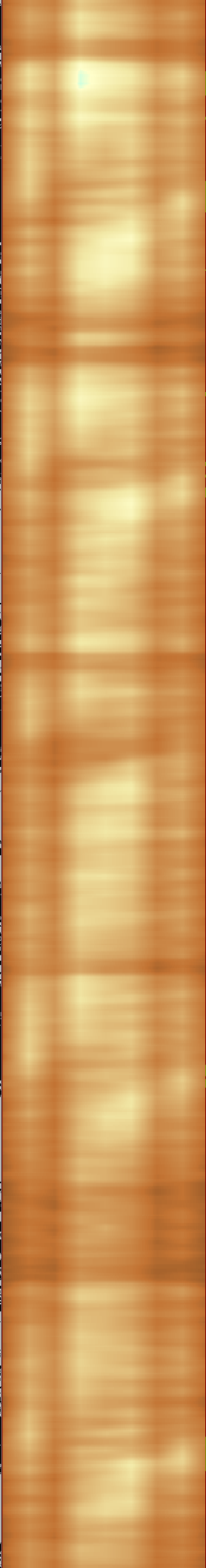
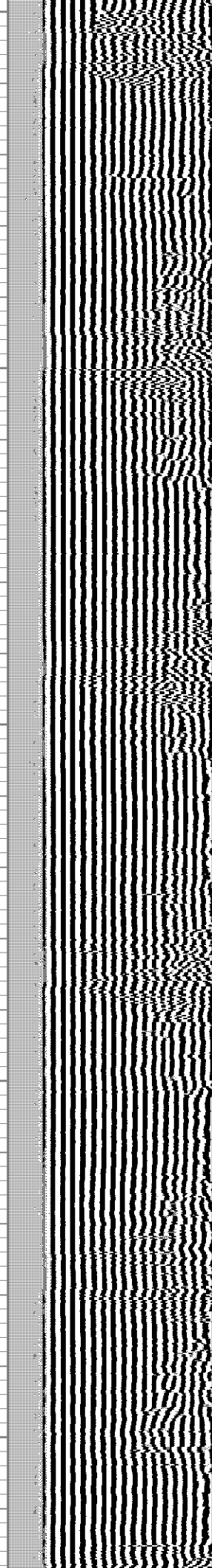
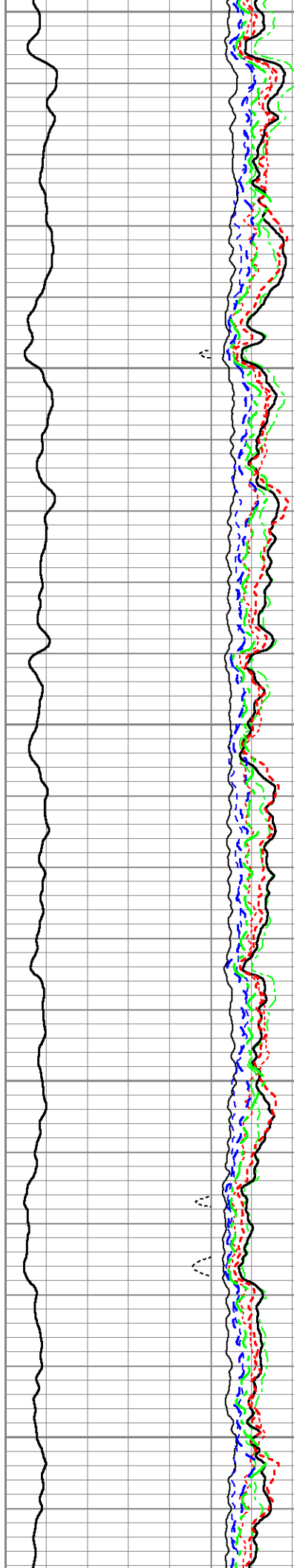
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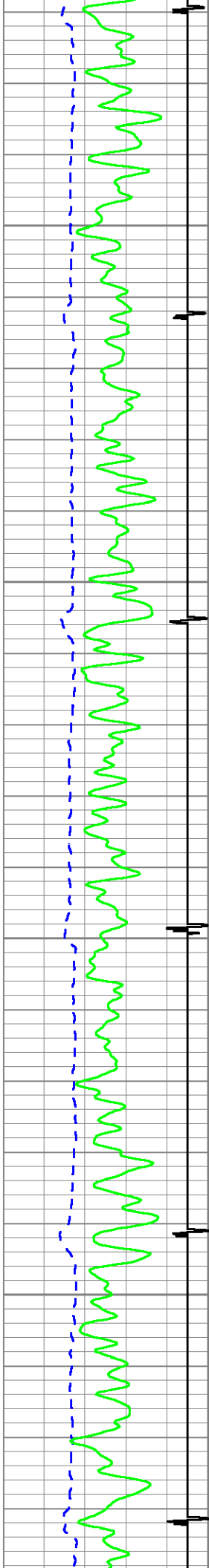




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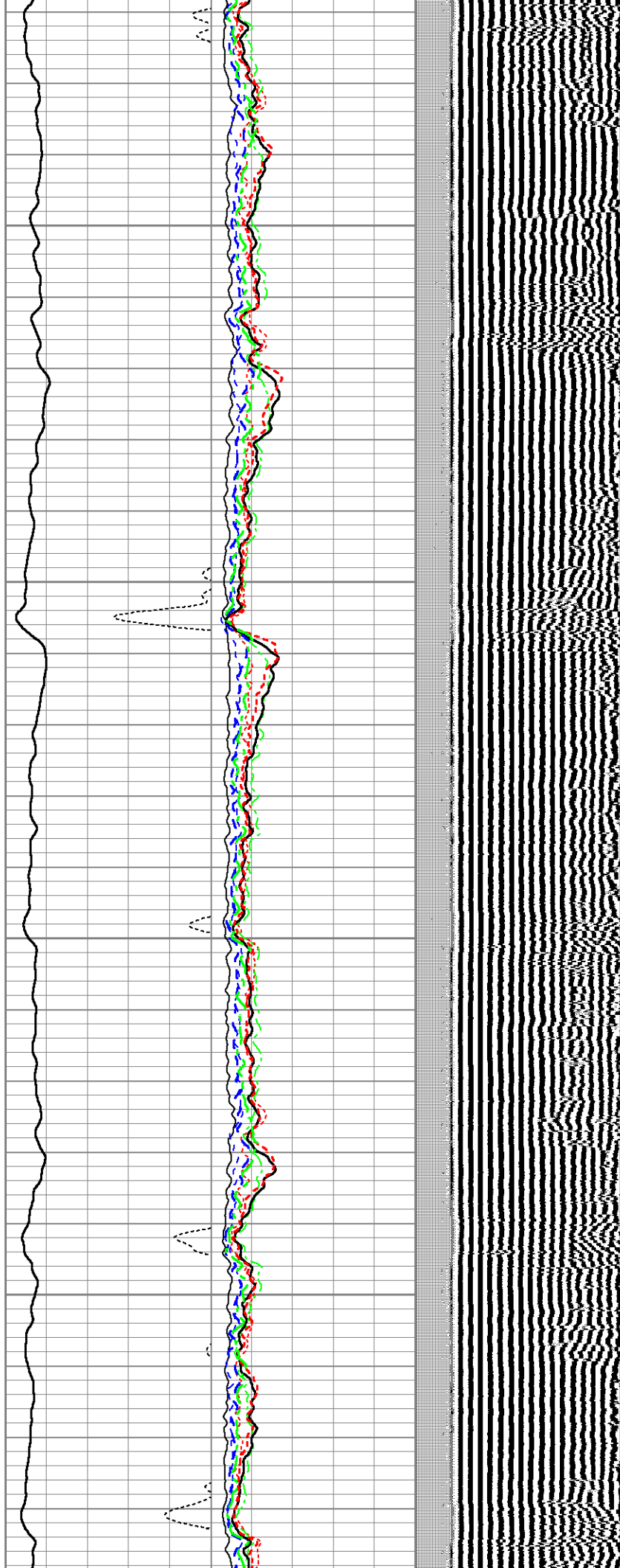
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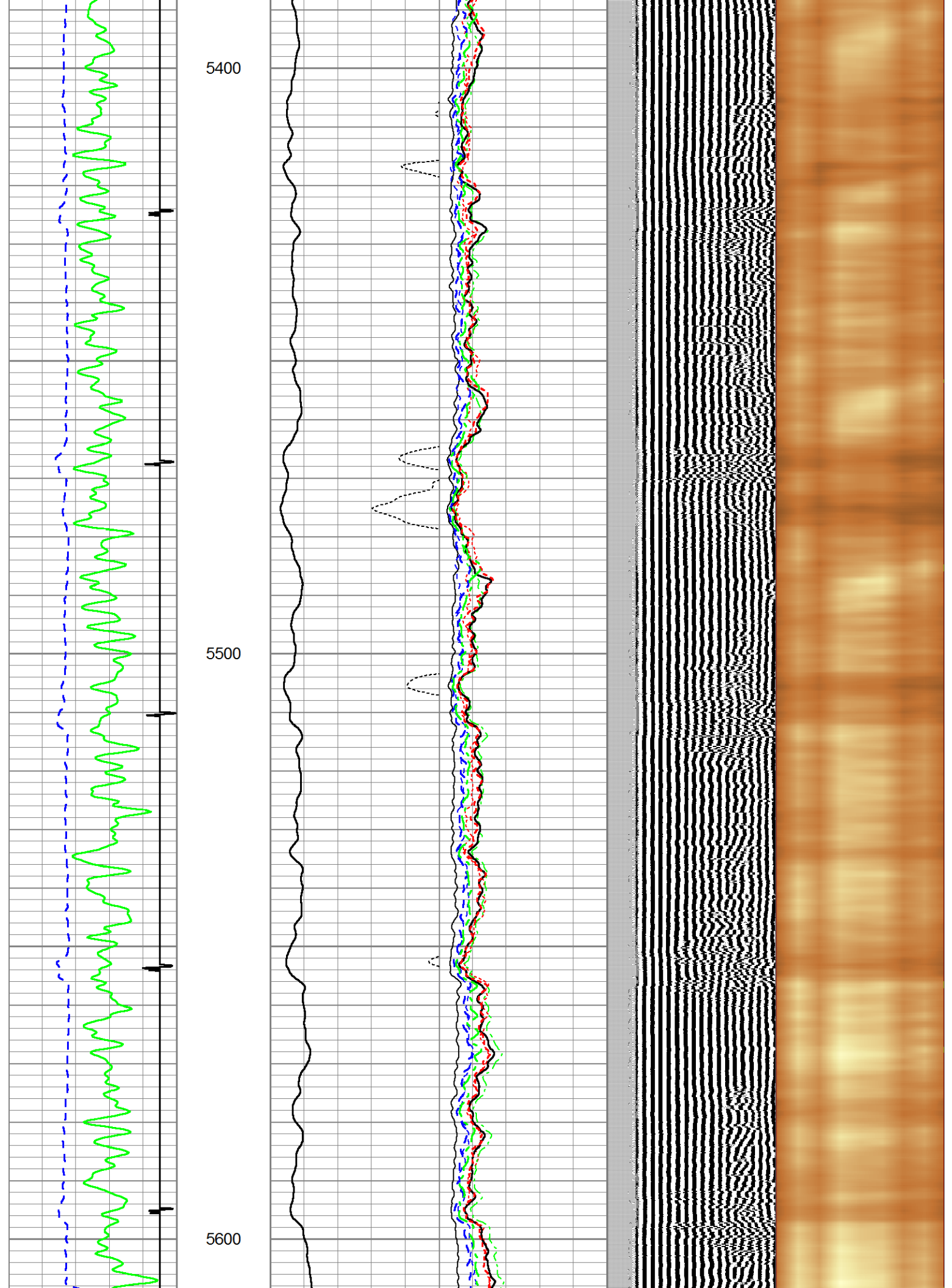


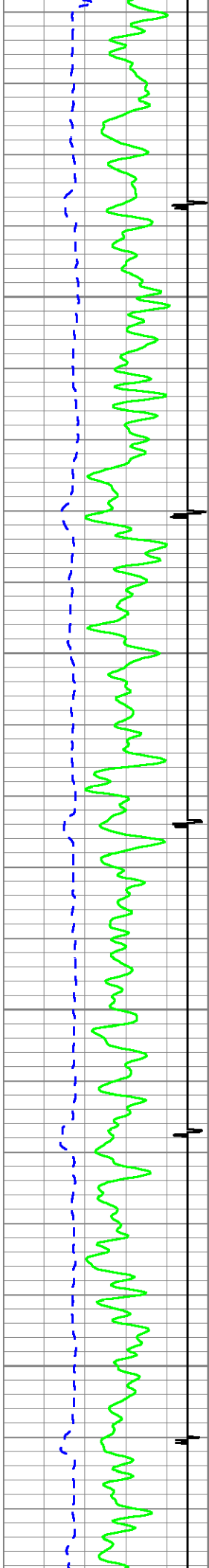


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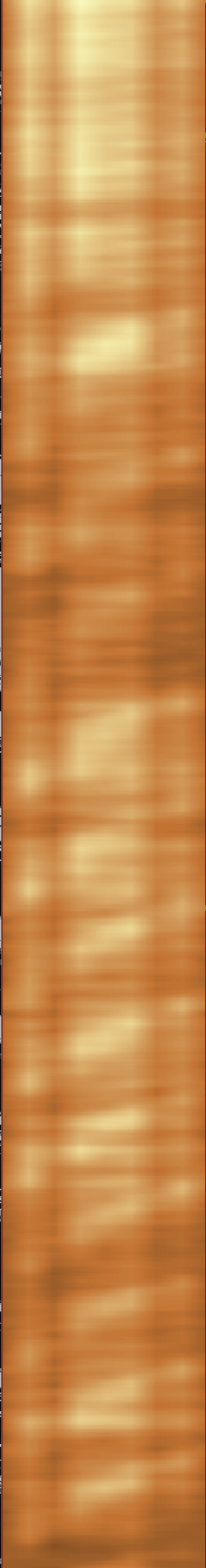
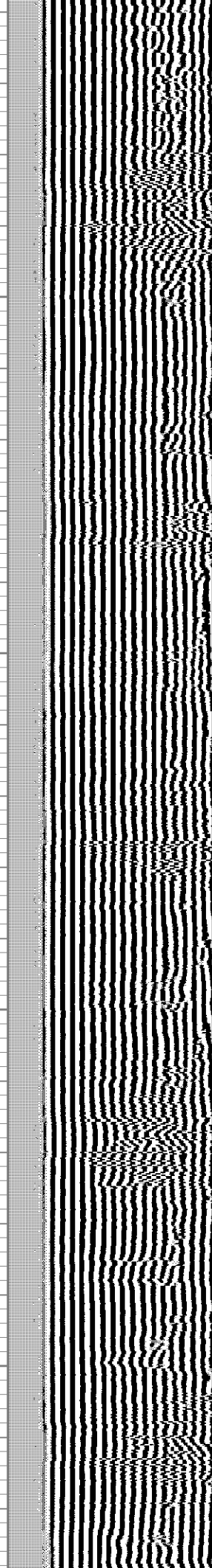
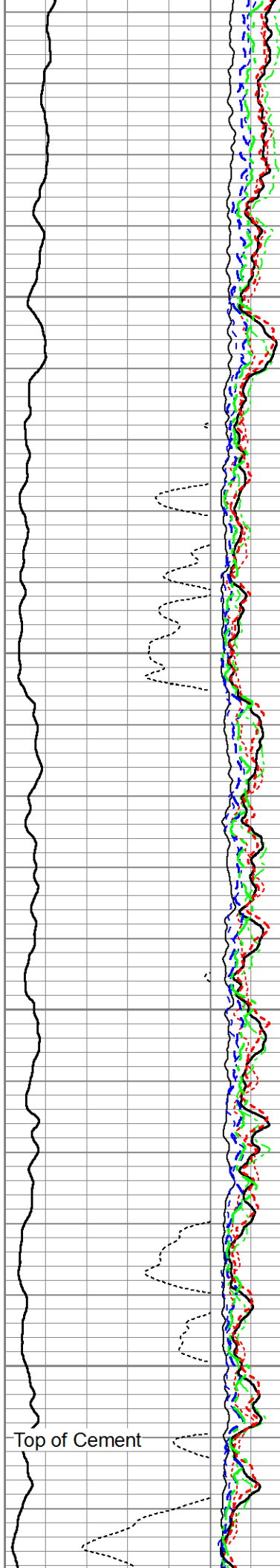


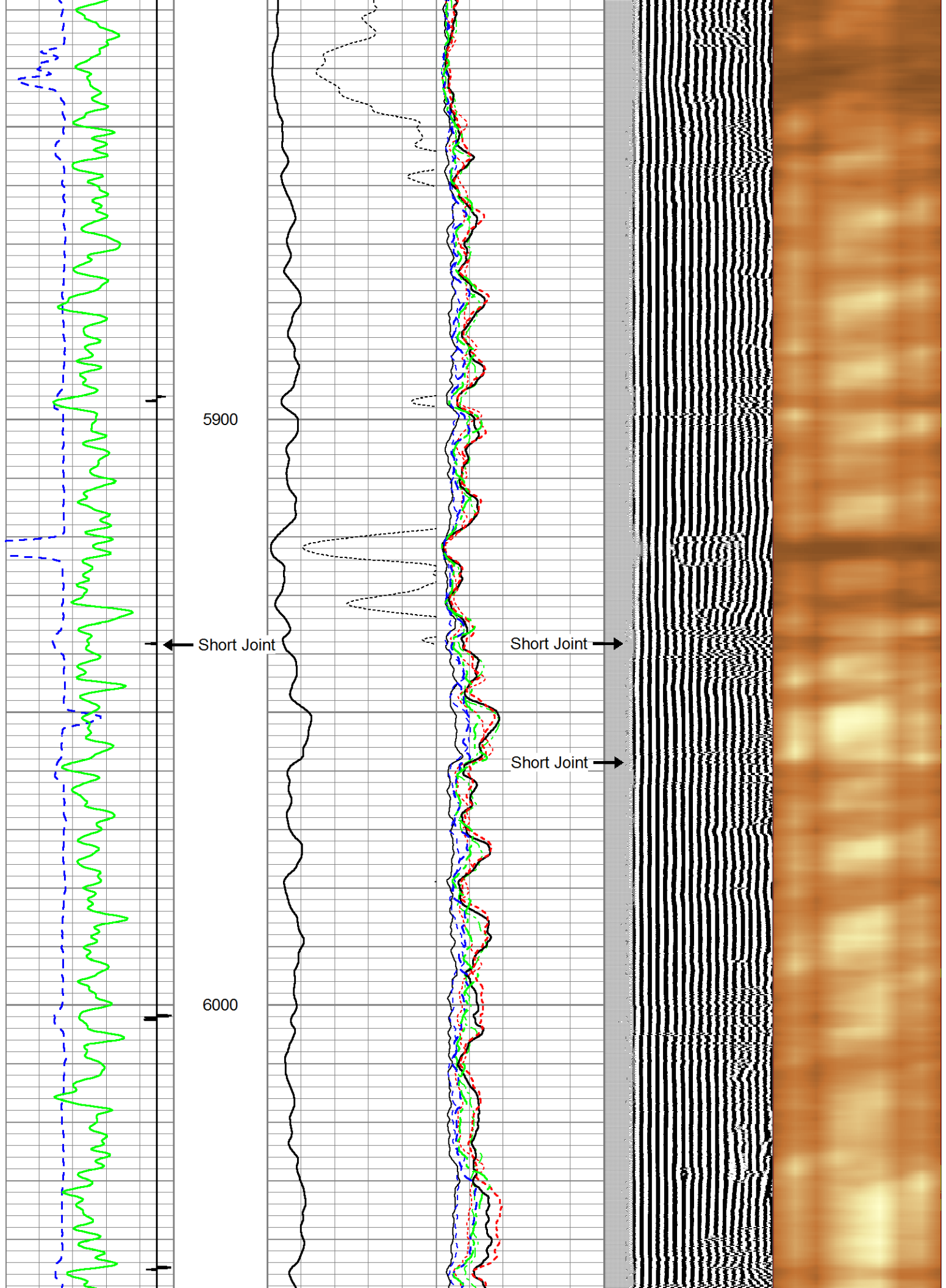


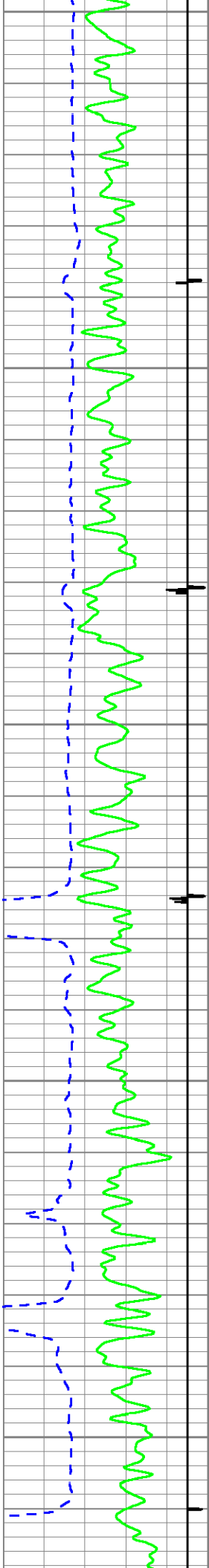


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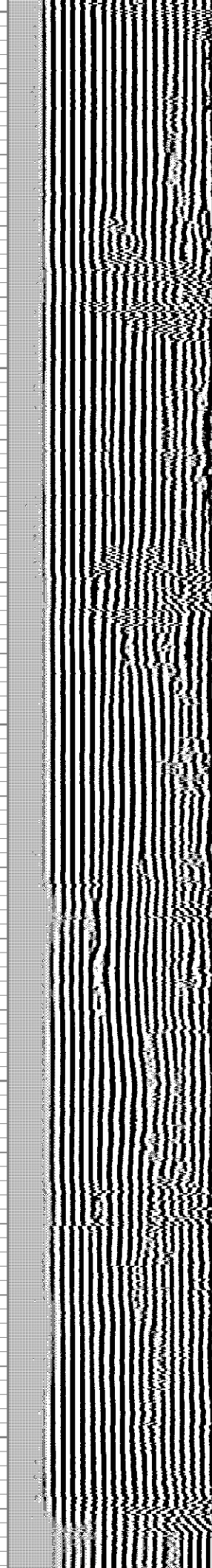
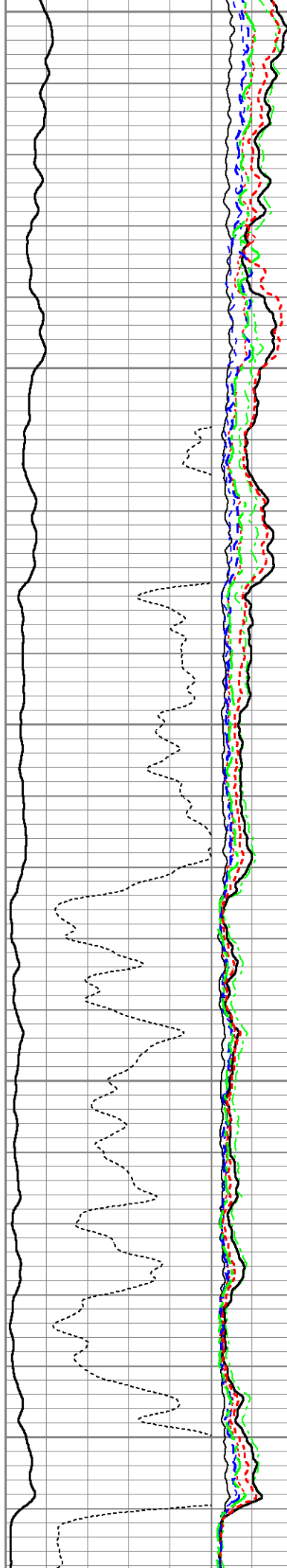


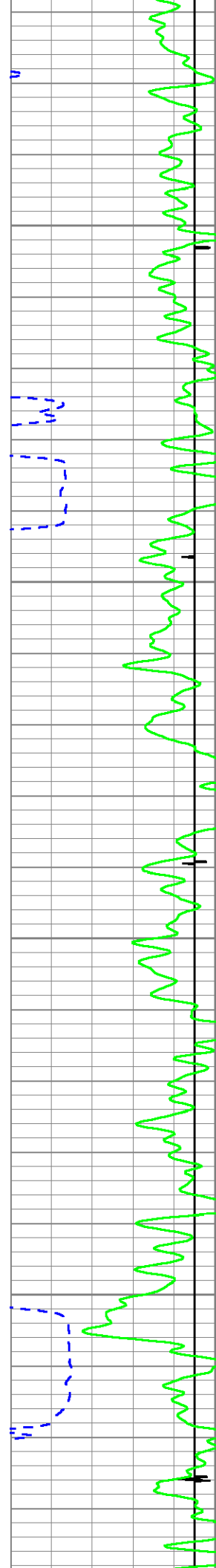




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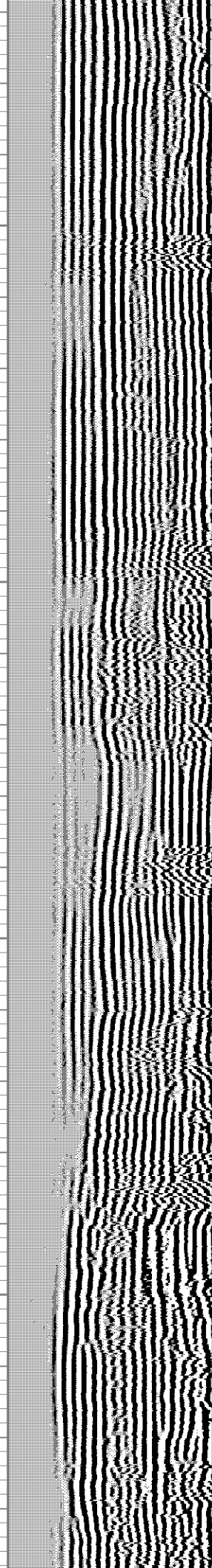
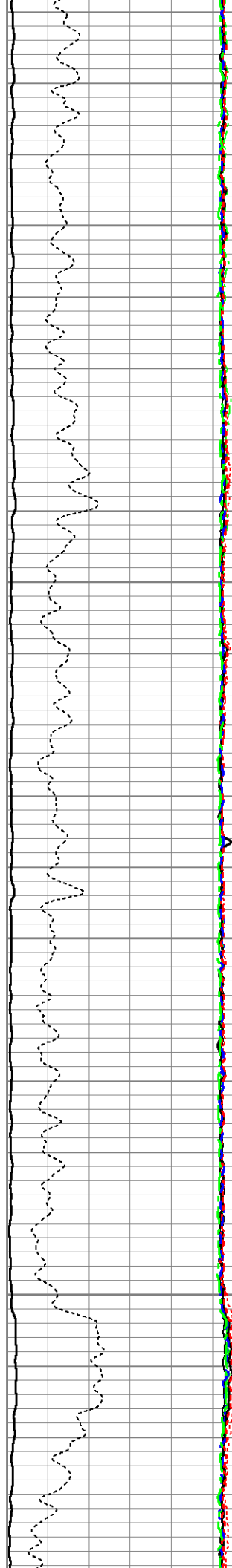
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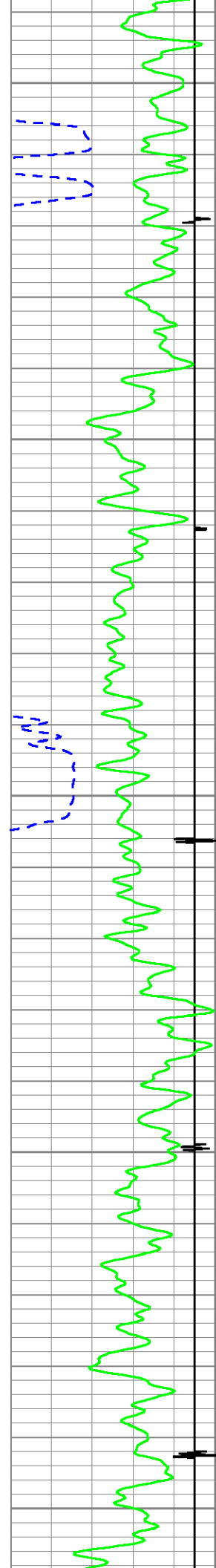




6300

6400

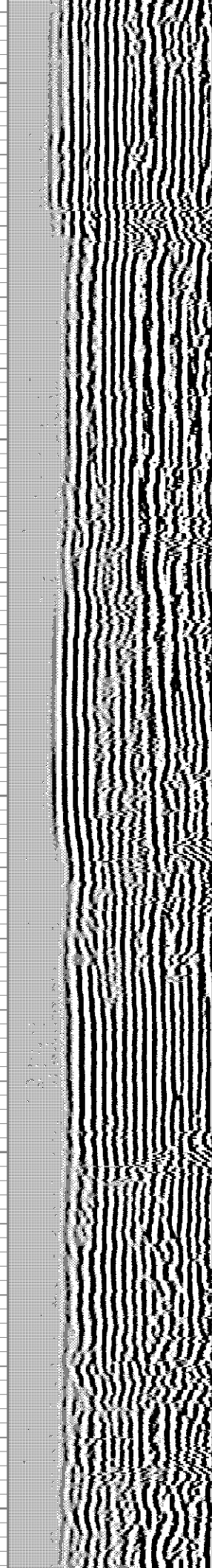
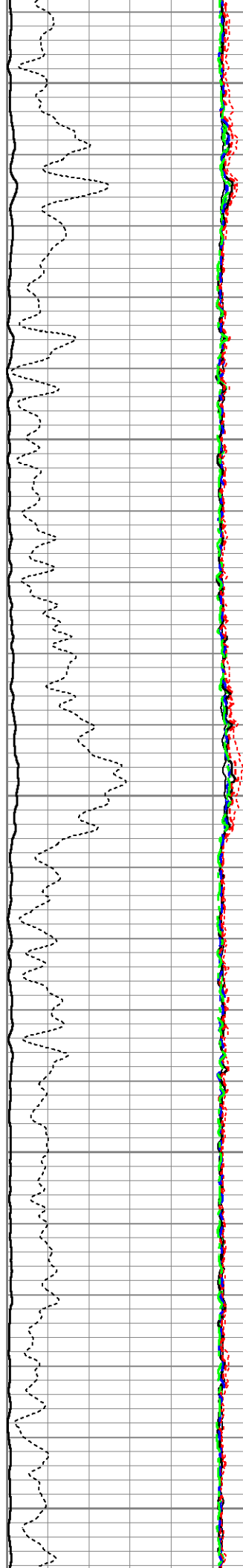


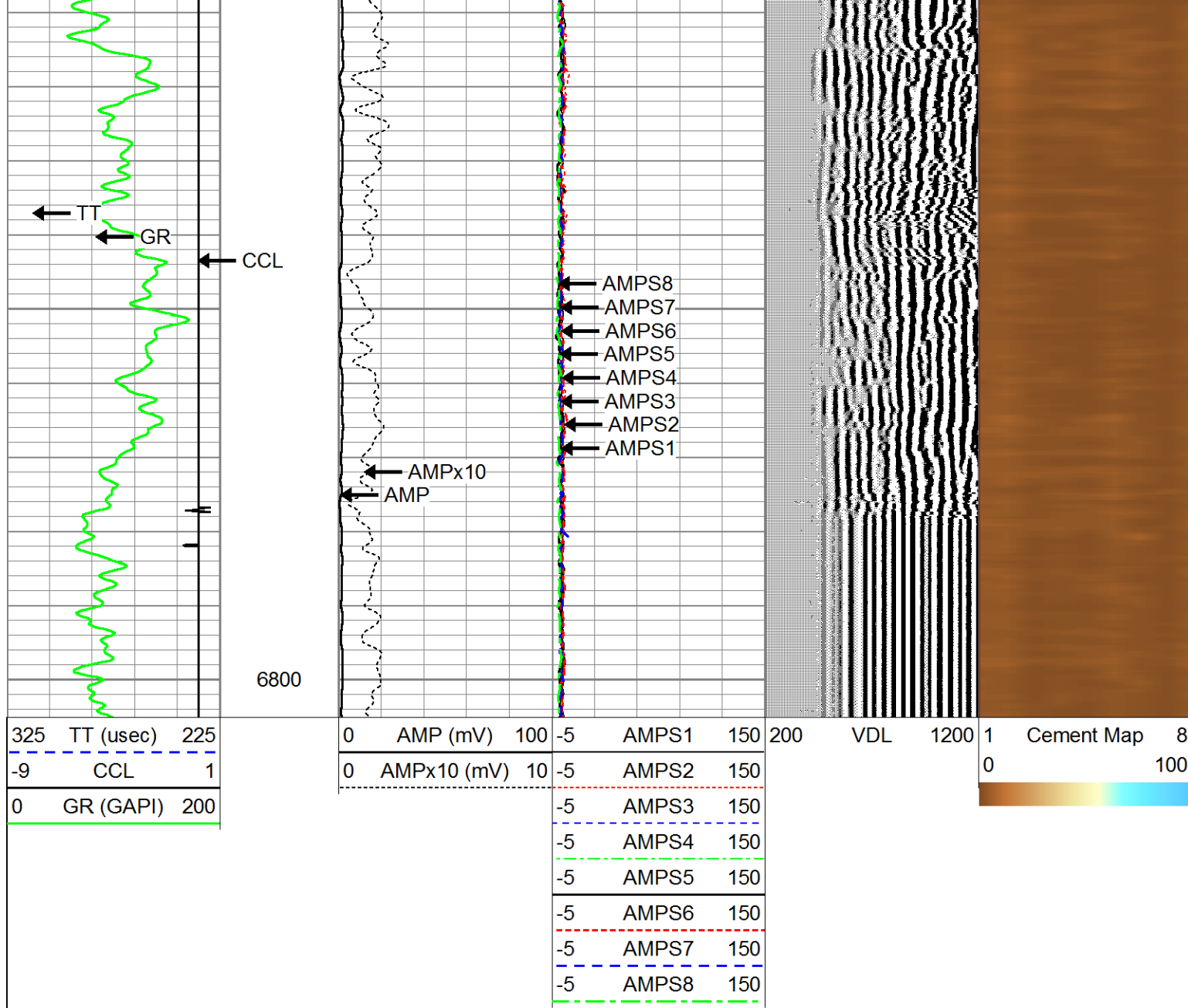


6500

6600

6700





Company	CONFLUENCE	
Well	70 RANCH 10-12-3L	
Field	WATTENBERG	
County	WELD	
State	COLORADO	Country USA