



RADIAL CEMENT
BOND LOG

Company		CONFLUENCE					
Well		70 RANCH 10-13-2L					
Field		WATTENBERG					
County		WELD					
State		COLORADO					
Location:		API # : 05-123-47591					
SEC		TWP					
Log Measured From		GROUND LEVEL Elevation					
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		6600'					
Bottom Logged Interval		6600'					
Top Log Interval		SURFACE					
Open Hole Size							
Type Fluid		WATER					
Density / Viscosity		~8.3#					
Max. Recorded Temp.							
Estimated Cement Top		4375'					
Time Well Ready		ROA					
Time Logger on Bottom		1200					
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	
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

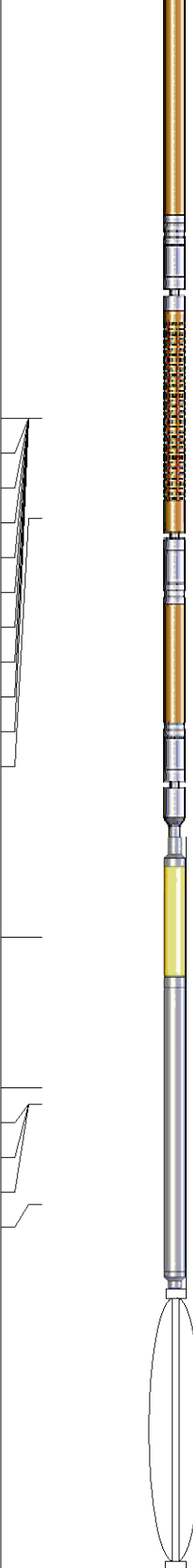
THANK YOU FOR USING CUTTERS WIRELINE

DATE OF SHOP CALIBRATION: 10/18

LOG RAN UNDER 0PSI

LOG ZEROED AT GROUND LEVEL, ADJUSTING +22' FOR MARKER JOINT AT 5895'-5917'

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

WVF3FT	11.52		RBT-Probe (110217) Probe 2.75" Radii Bond Tool	8.75	2.75	90.00
WVFCAL	11.52					
WVFS1	11.52					
WVFS2	11.52					
WVFS3	11.52					
WVFS4	11.52					
WVFS5	11.52					
WVFS6	11.52					
WVFS7	11.52					
WVFS8	11.52					
WVF5FT	10.52					
CCL	6.33					
IntTemp	4.83		GR-275D_INC (DIG110254) 2-3/4" GR-CCL with Inclination	4.50	2.75	
ACCX	4.67					
ACCY	4.67					
ACCZ	4.67					
GR	3.67					
			Probe	2.83	2.75	40.00
Dataset: 10-13-2l.db: field/well/run1/pass17 Total Length: 17.08 ft Total Weight: 131.00 lb O.D. 2.75 in						

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: 515.883 ft

Master Calibration, performed Thu Jul 25 23:12:38 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.016	0.339	2.000	71.921	216.459	-1.409
CAL	0.014	1.003				
5'	0.013	0.551	2.000	71.921	129.876	0.332
SUM						
S1	0.001	0.189	0.000	100.000	532.017	-0.740
S2	0.013	0.384	0.000	100.000	269.927	-3.585
S3	0.014	0.348	0.000	100.000	299.525	-4.176
S4	0.015	0.366	0.000	100.000	285.197	-4.265
S5	0.015	0.385	0.000	100.000	270.604	-4.152
S6	0.012	0.436	0.000	100.000	235.789	-2.734
S7	0.014	0.241	0.000	100.000	440.880	-6.216
S8	0.012	0.355	0.000	100.000	291.717	-3.597

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	0.014	1.003	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

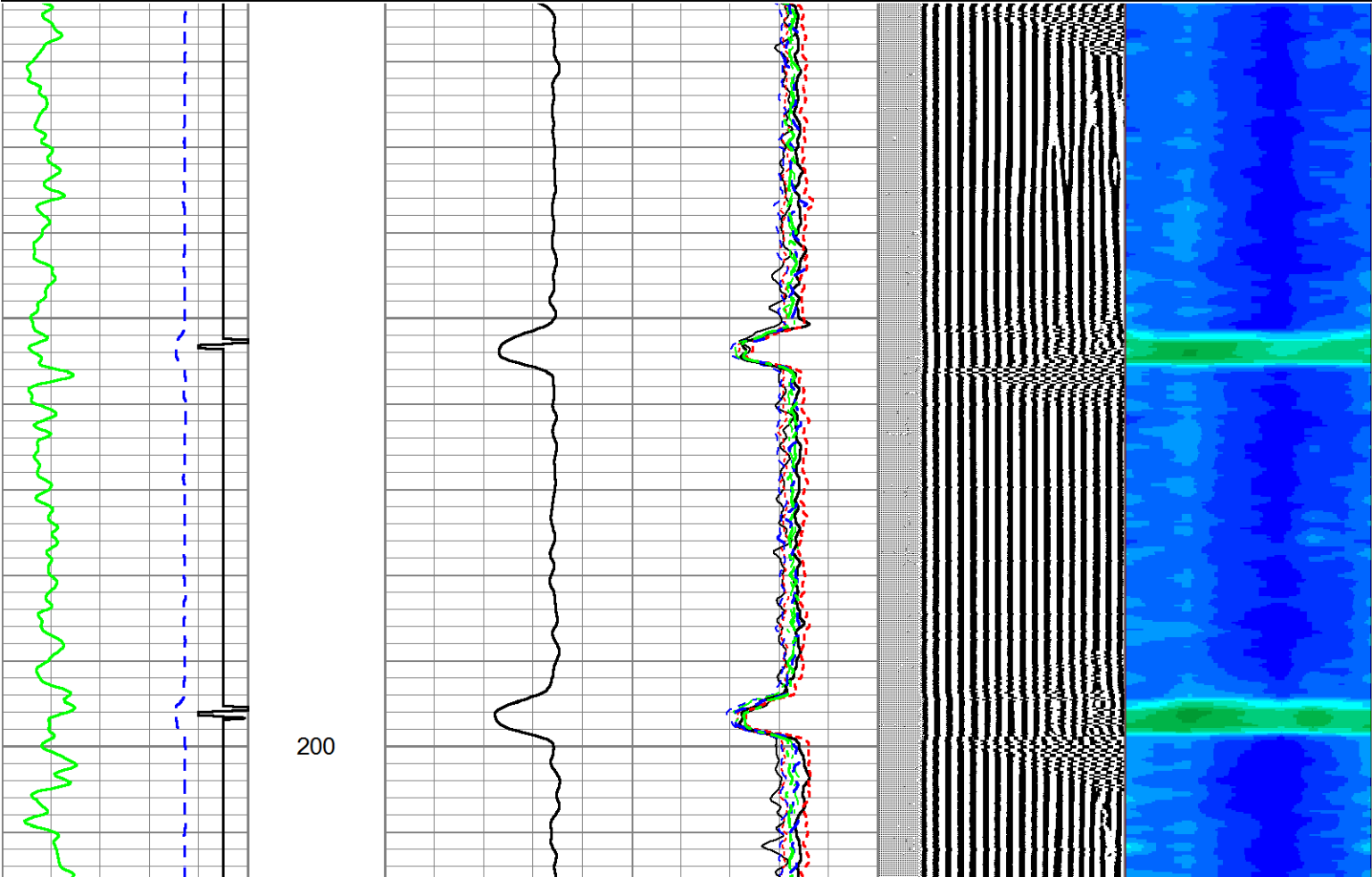
Database File: 10-13-2l.db
Dataset Pathname: pass17
Presentation Format: scbl_inc
Dataset Creation: Thu Jul 25 23:50:33 2019 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

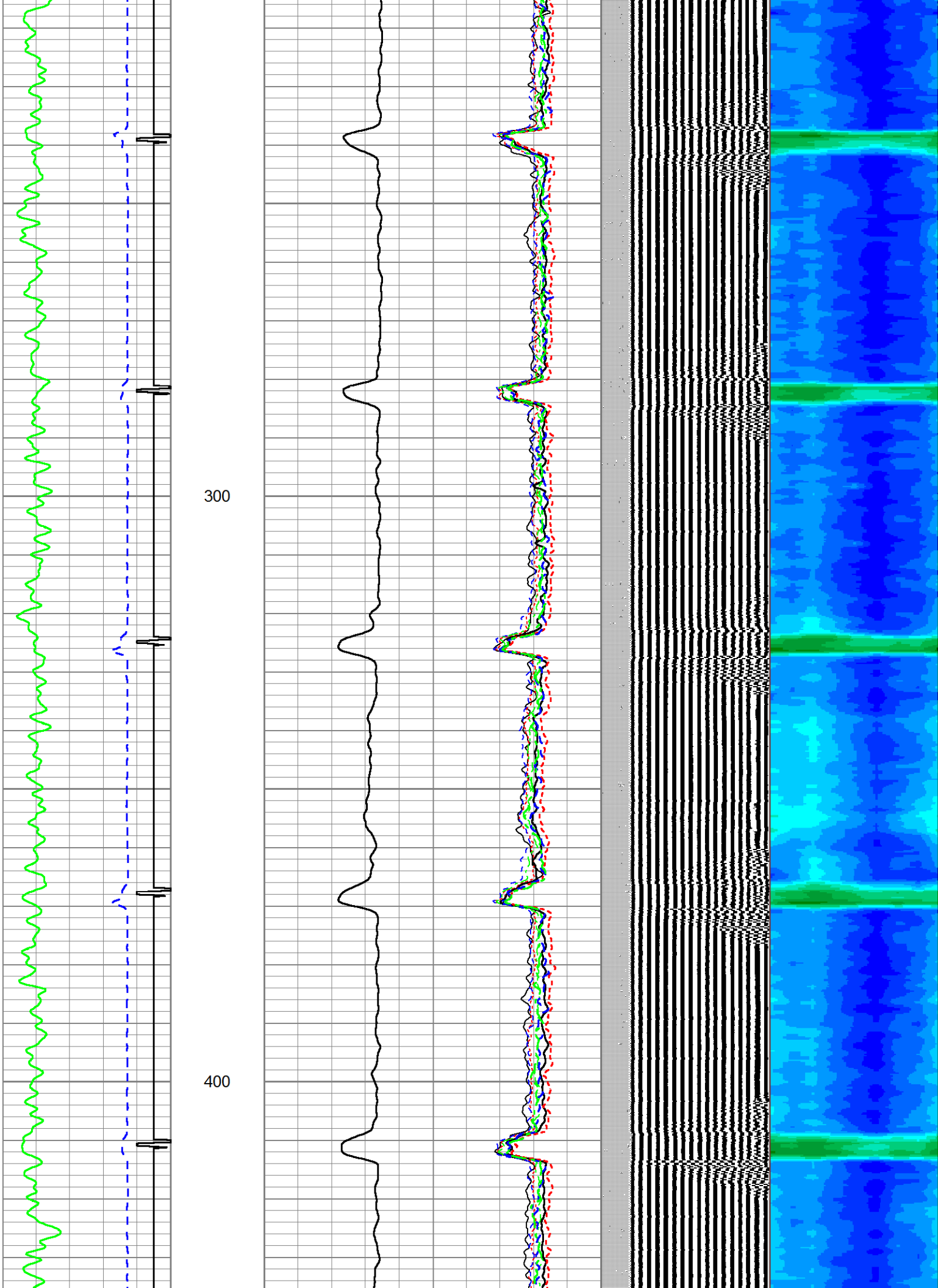
400 TT (usec) 215
-9 CCL 1
0 GR (GAPI) 300

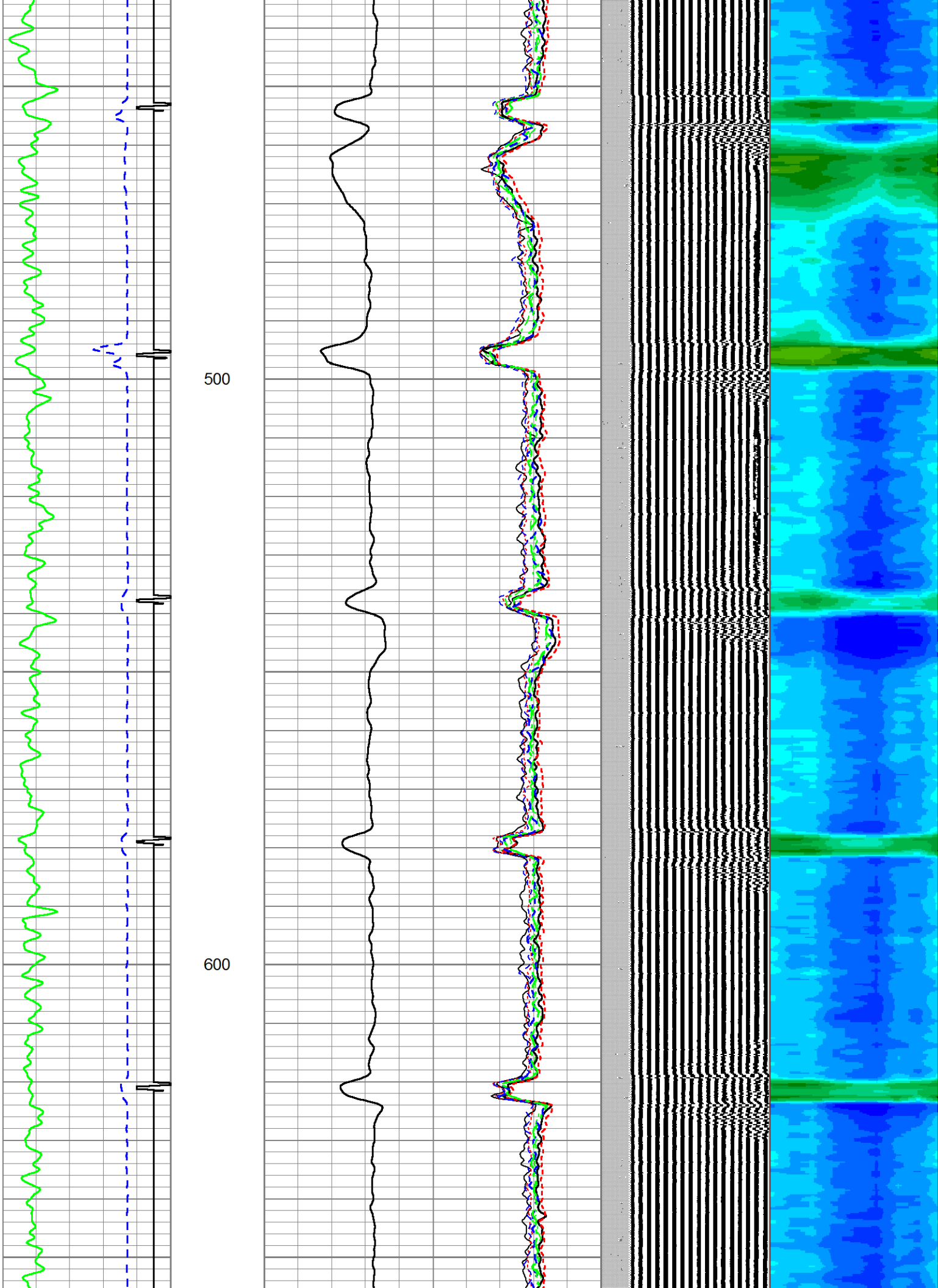
0 AMP (mV) 100
0 AMPx10 (mV) 10

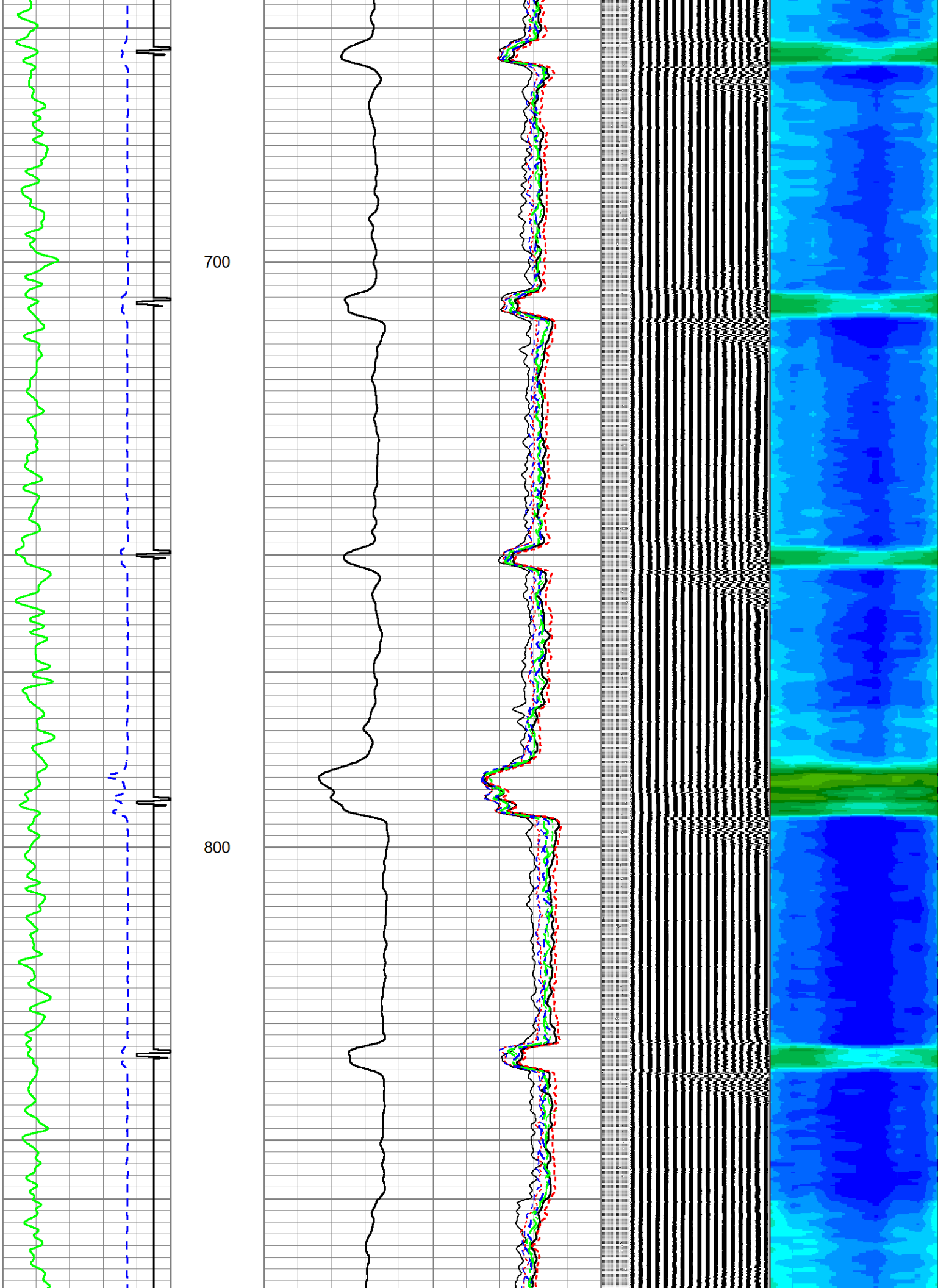
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-5 AMPS6 150
-5 AMPS7 150
-5 AMPS8 150

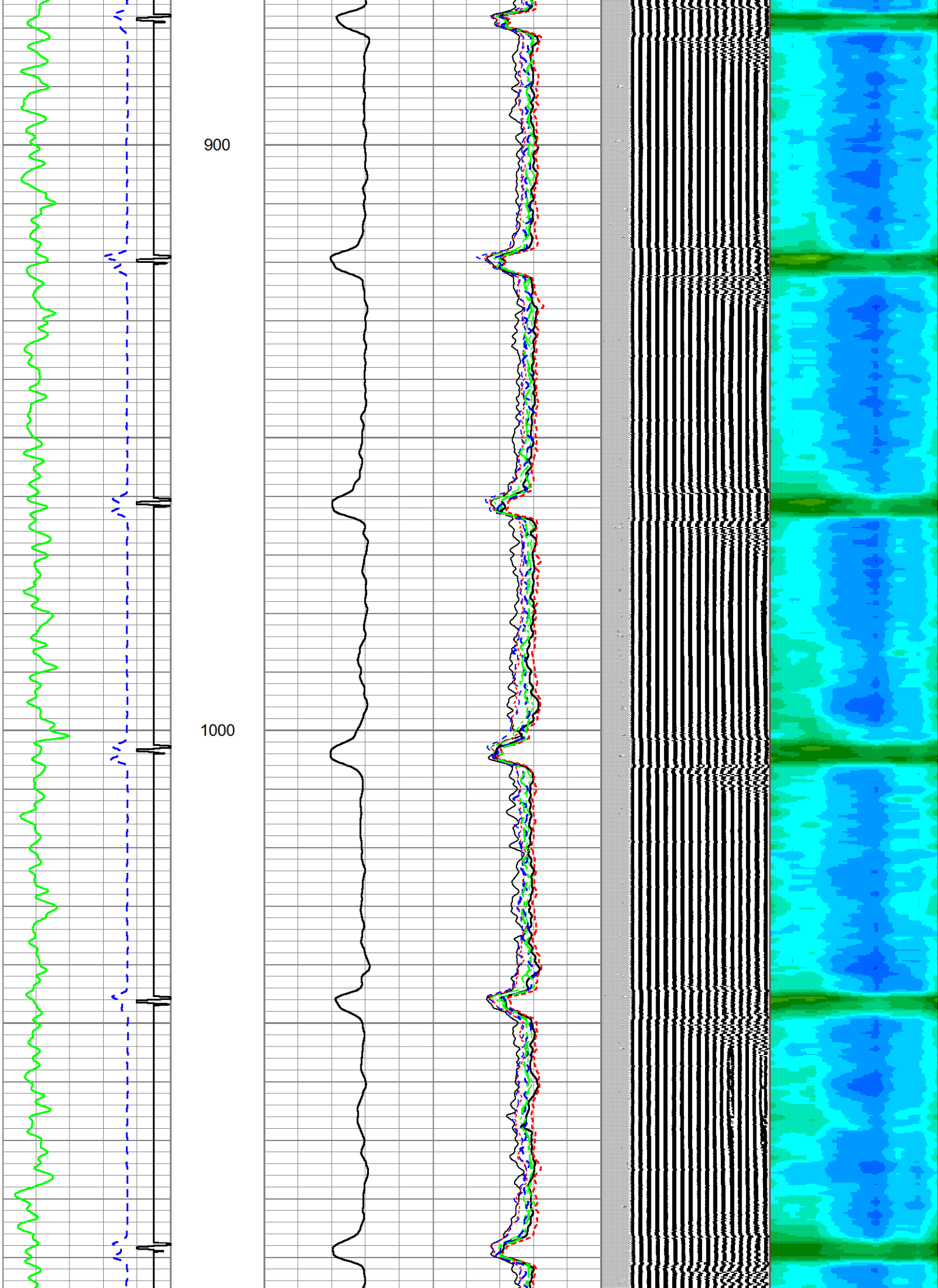
200 VDL 1200
1 Cement Map 8
0 100

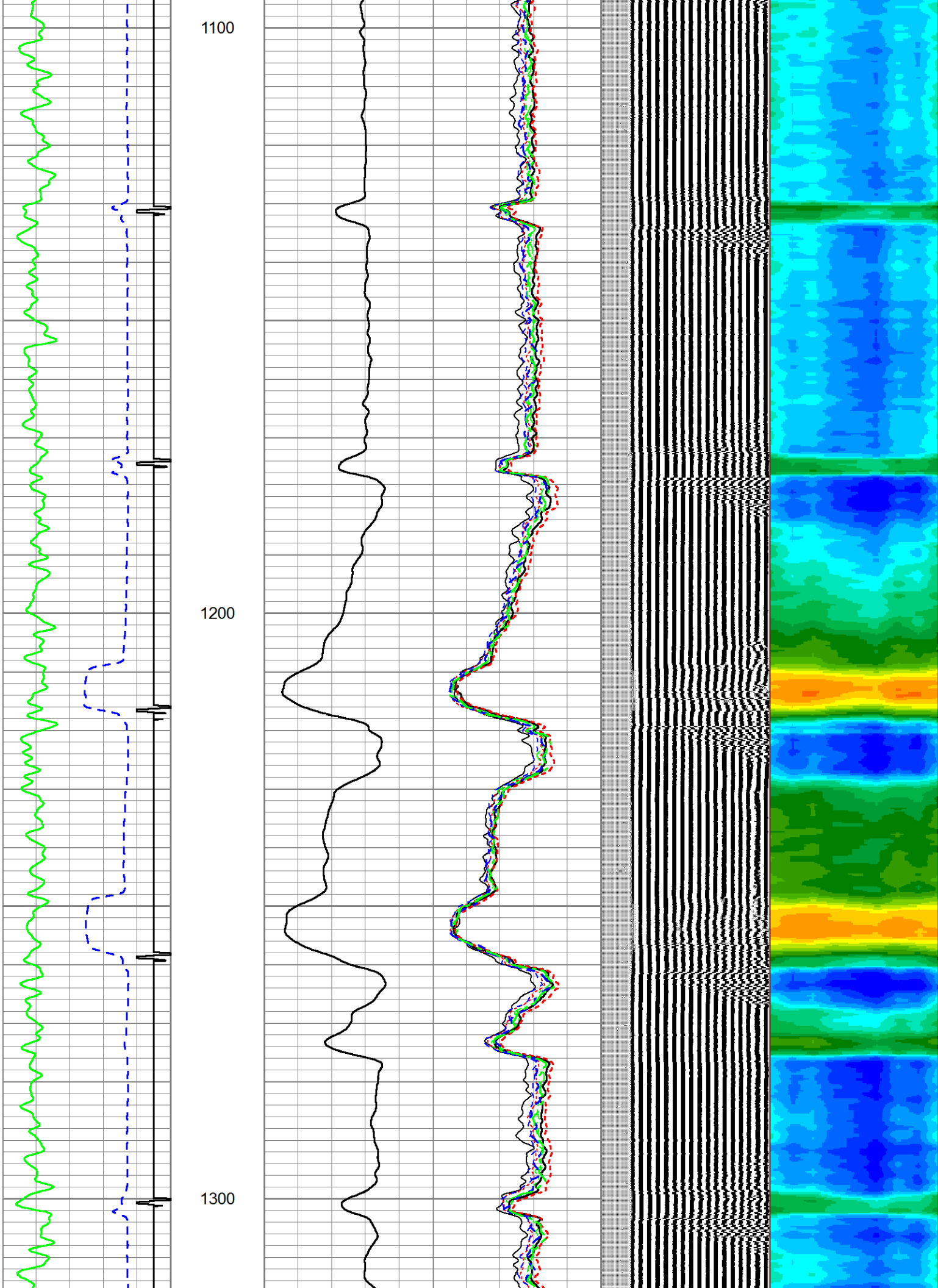


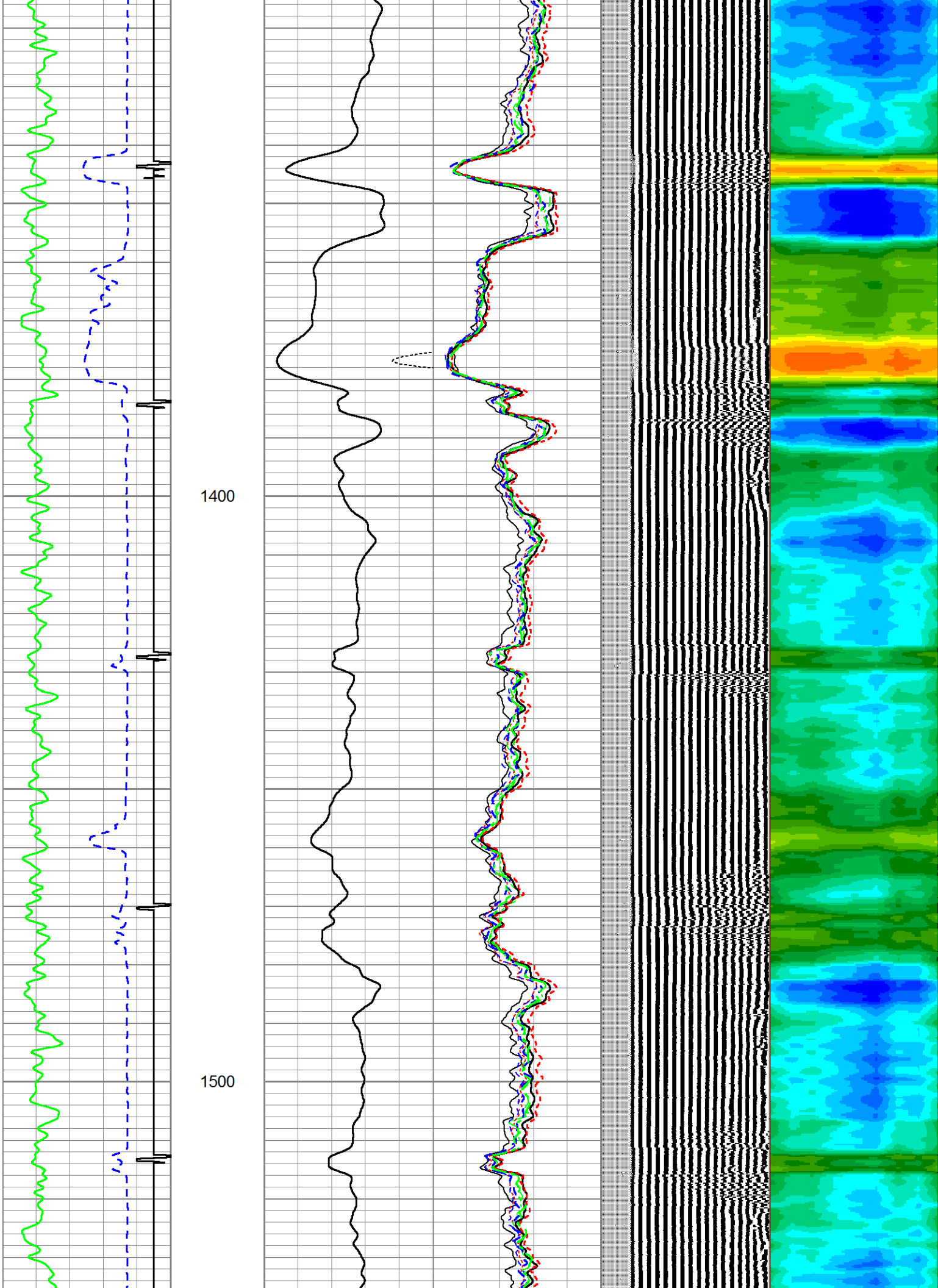


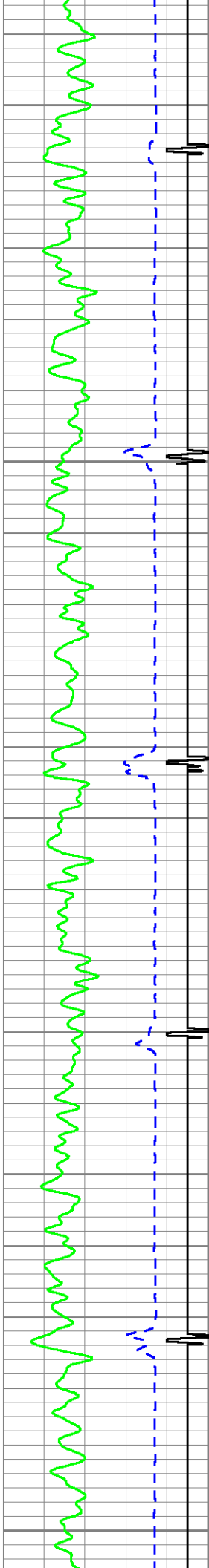






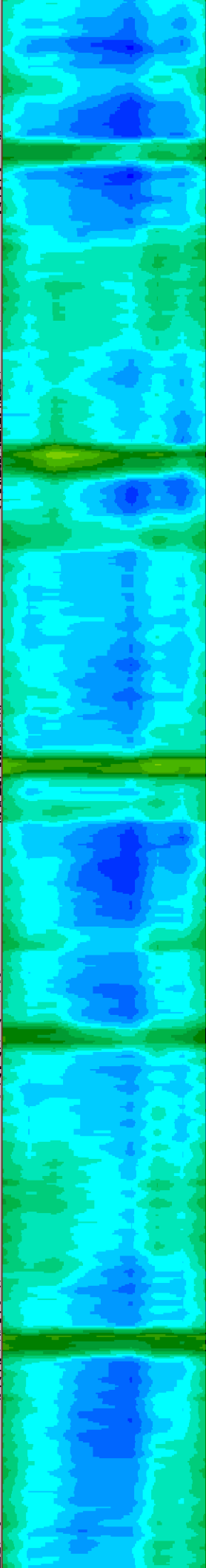
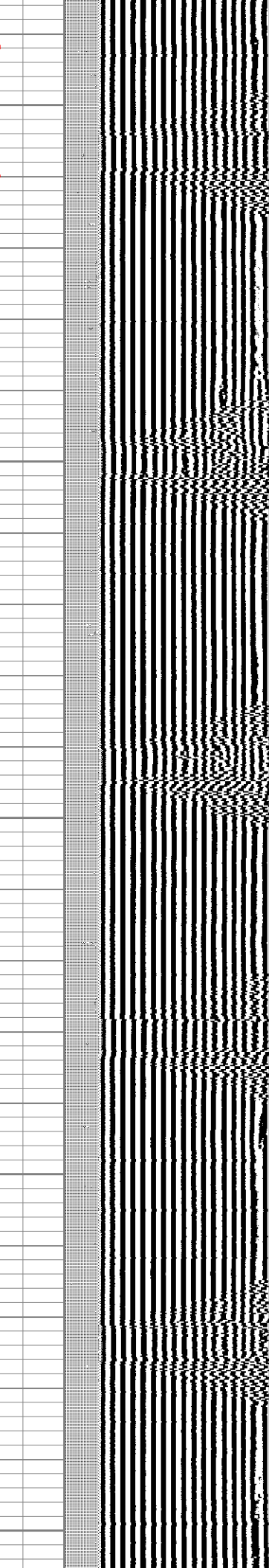
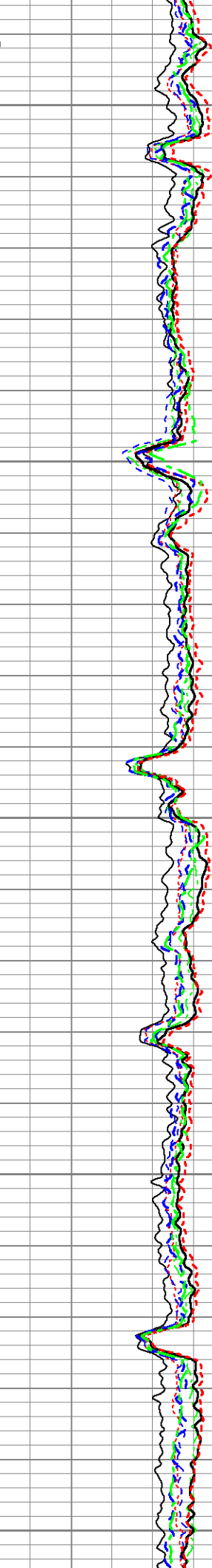
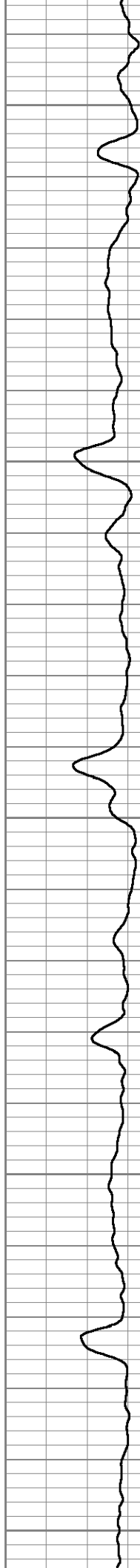


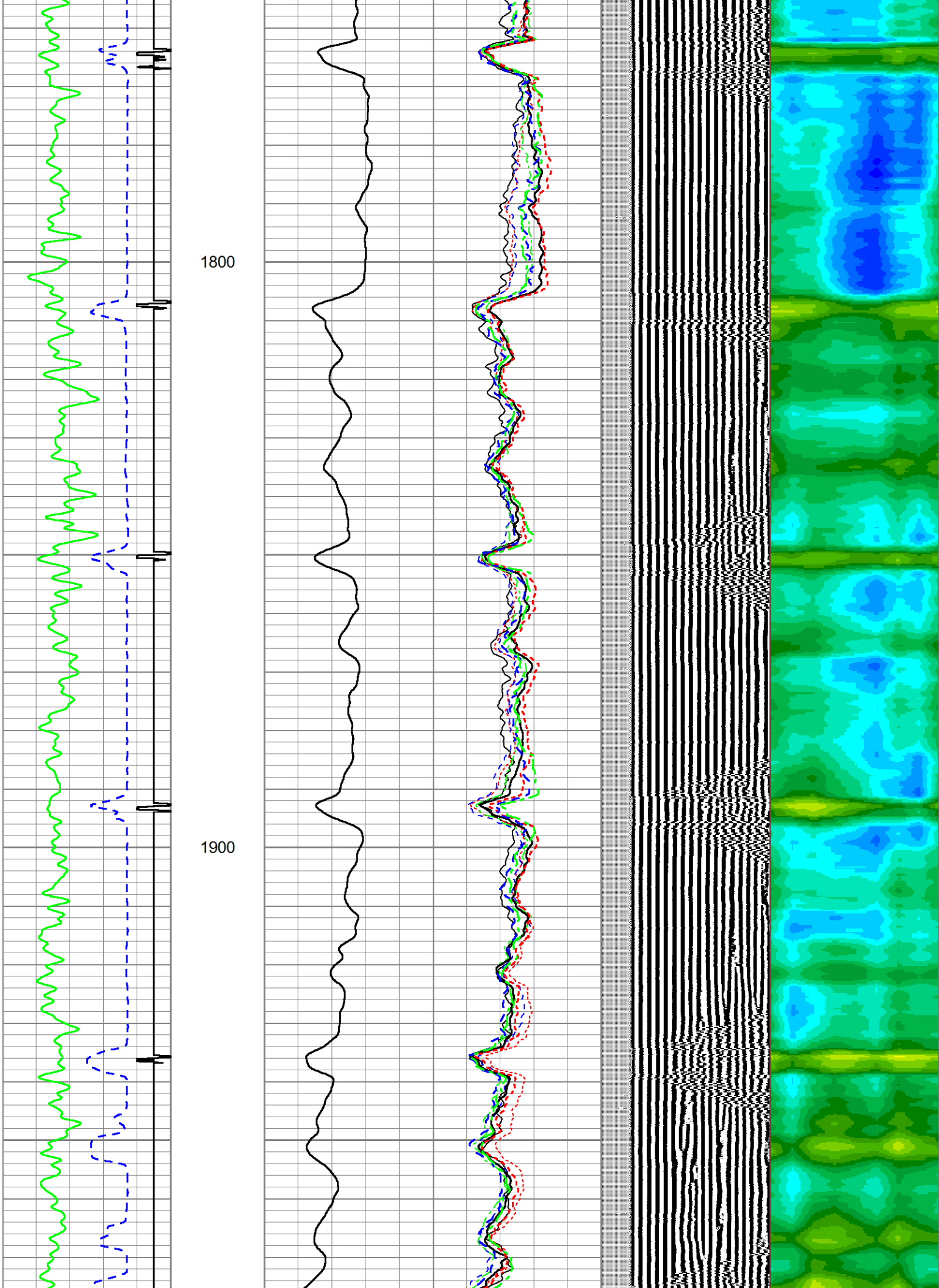


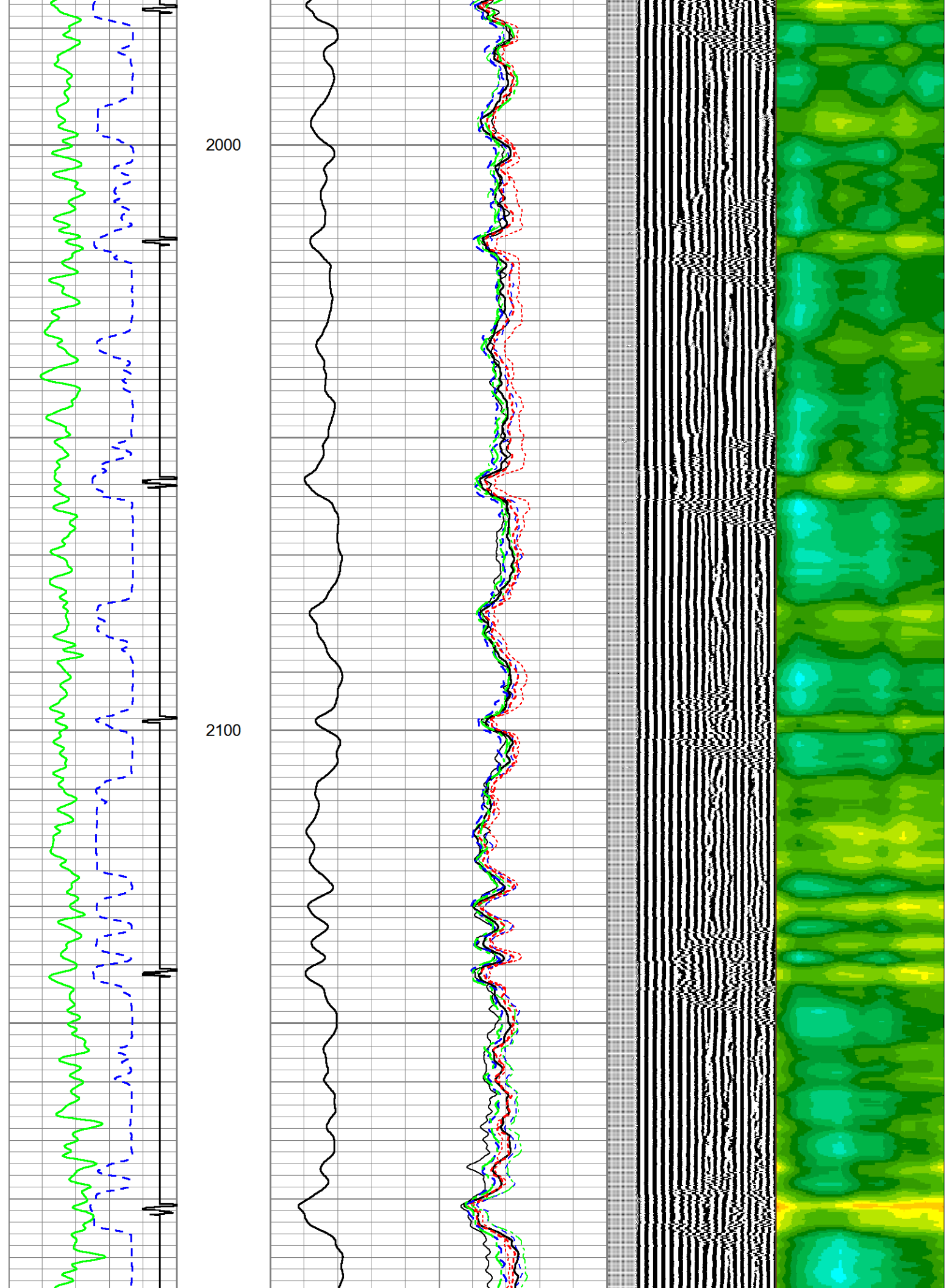


1600

1700



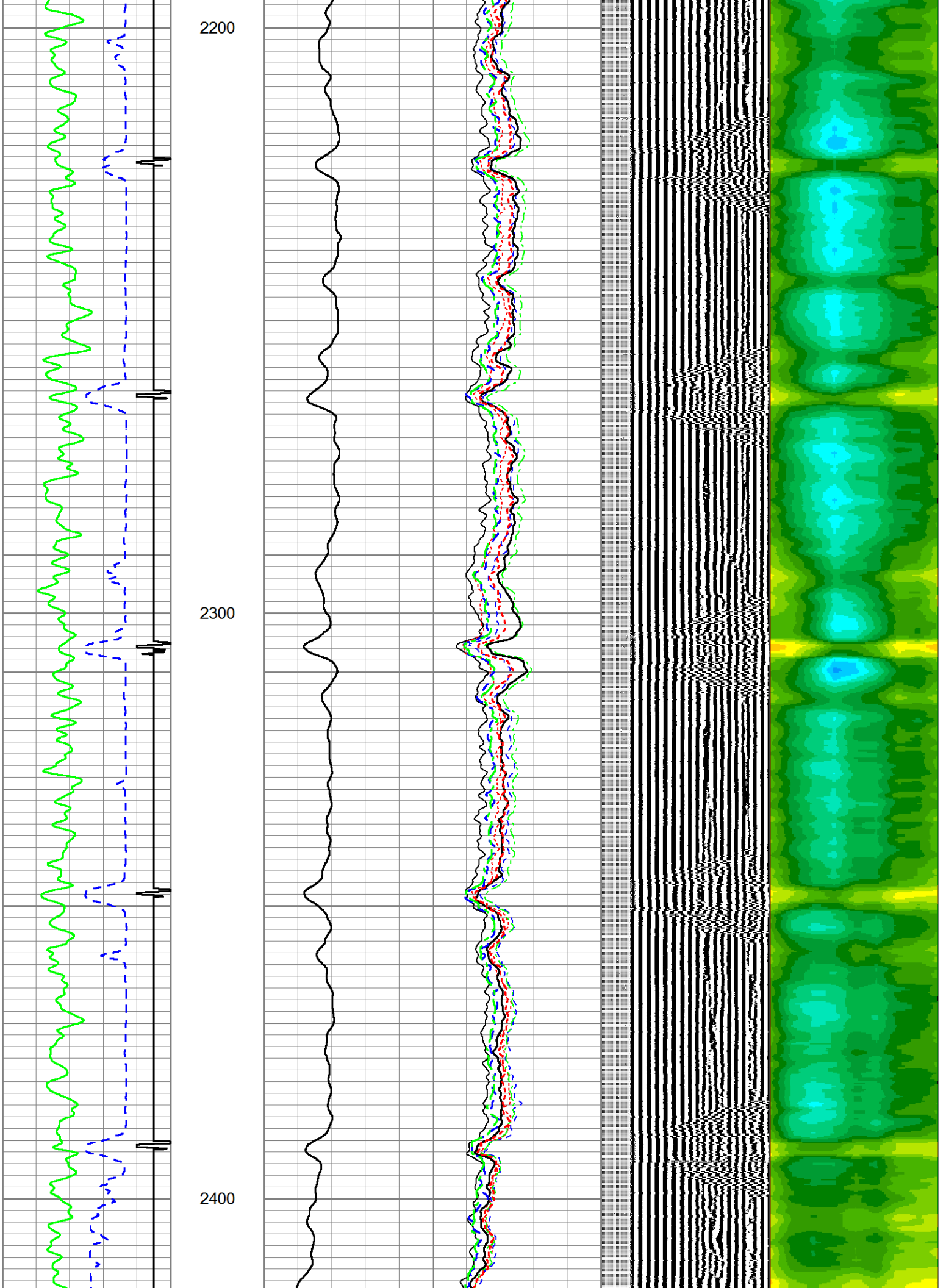


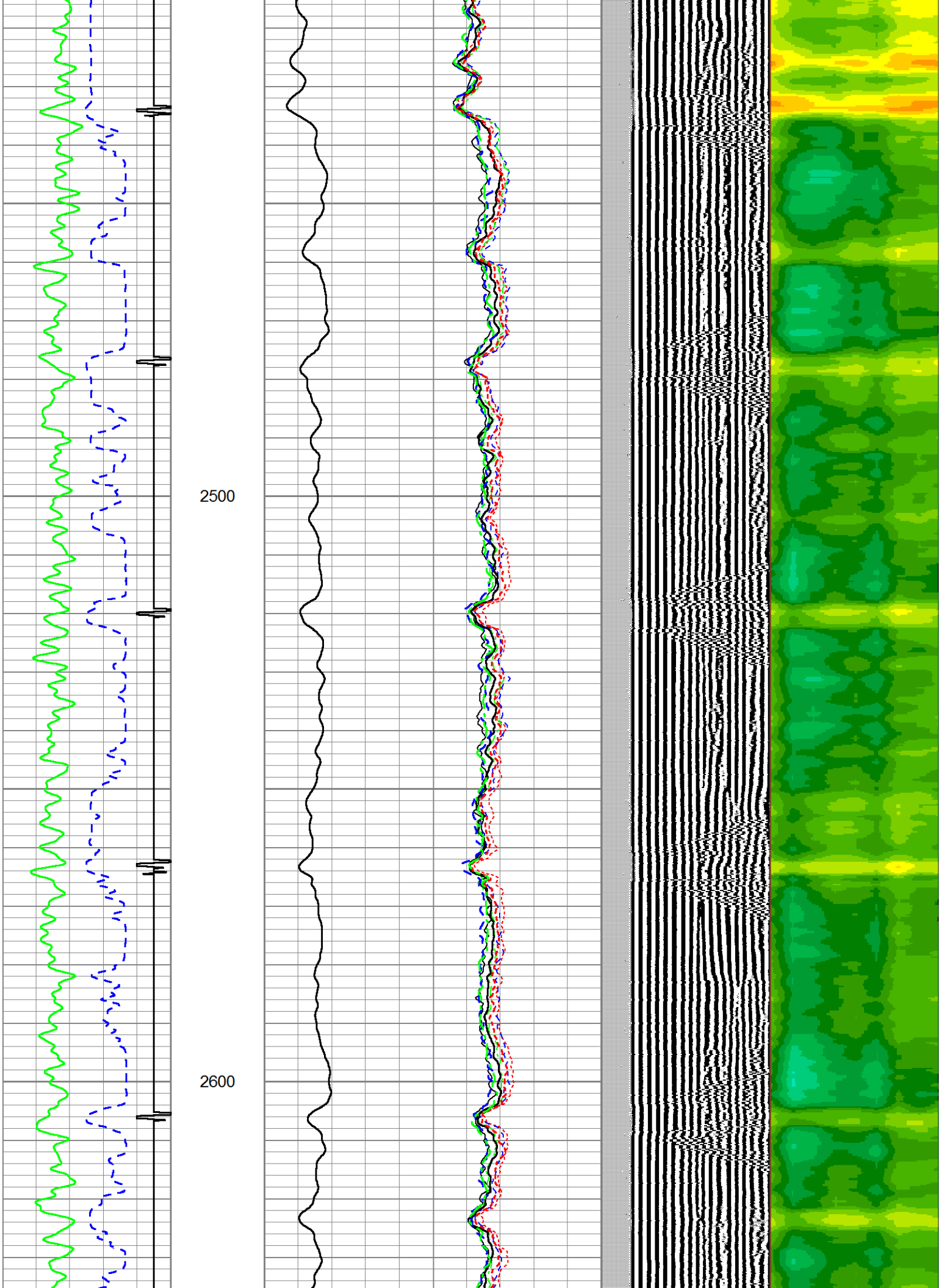


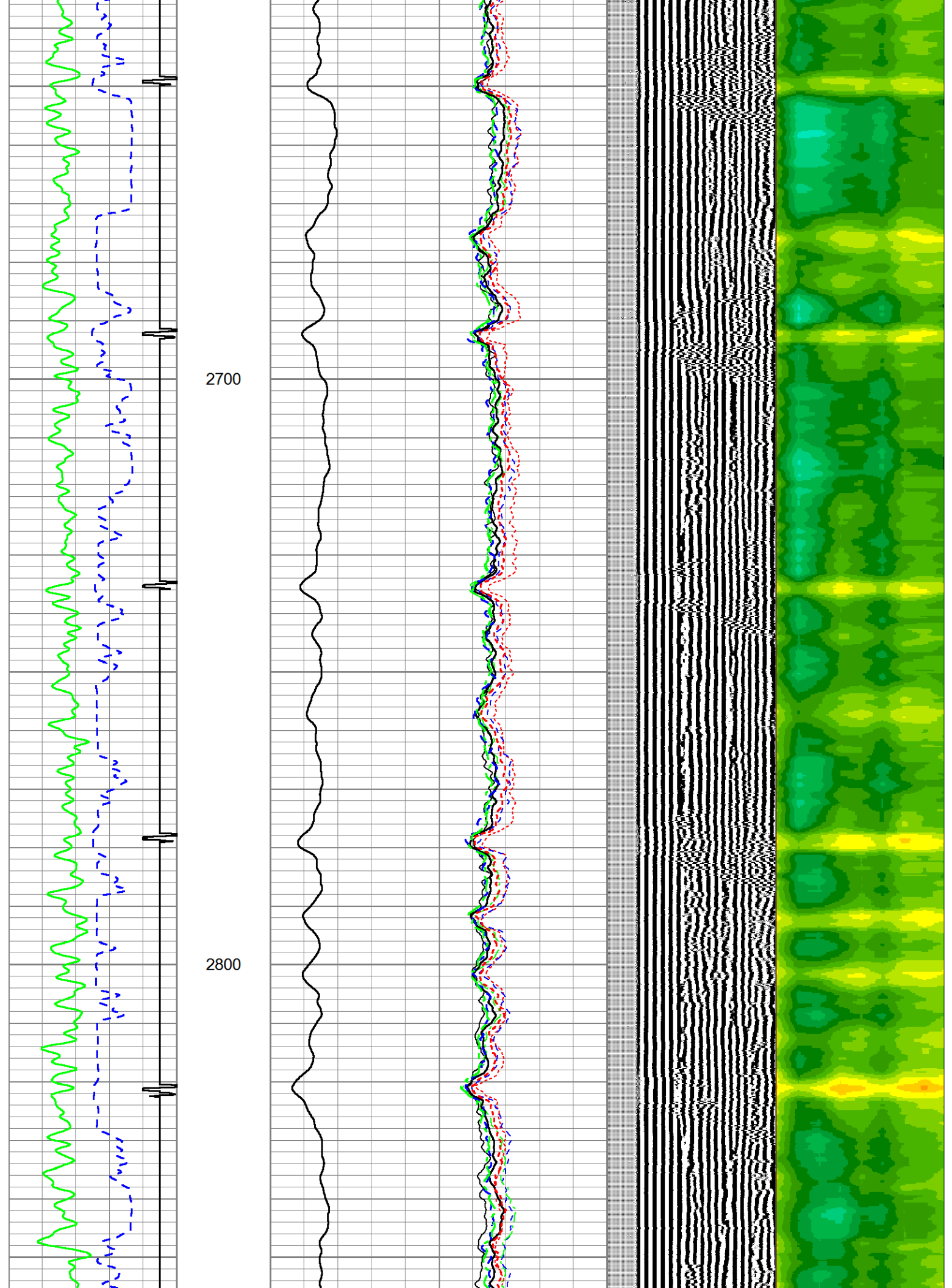
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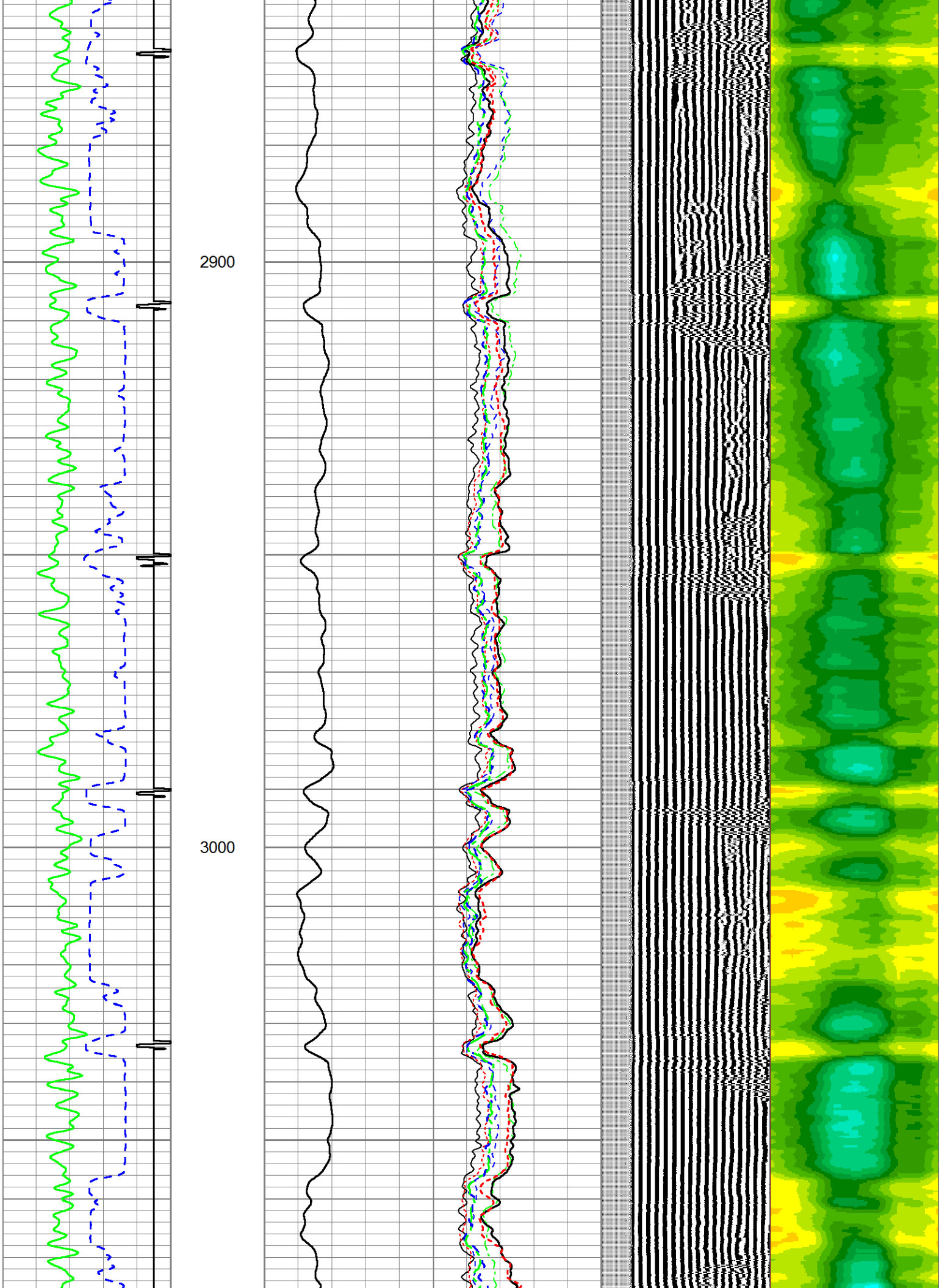
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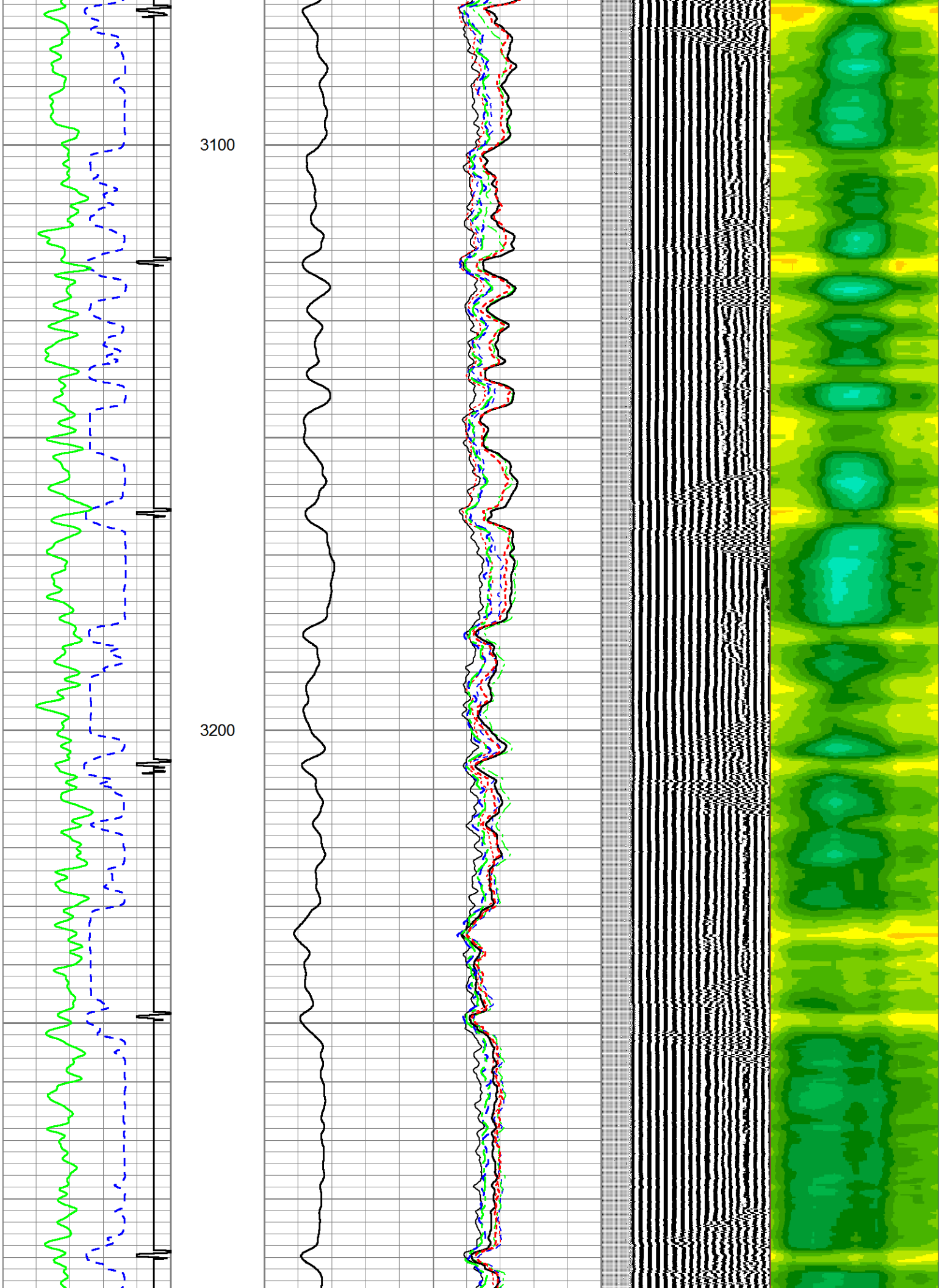
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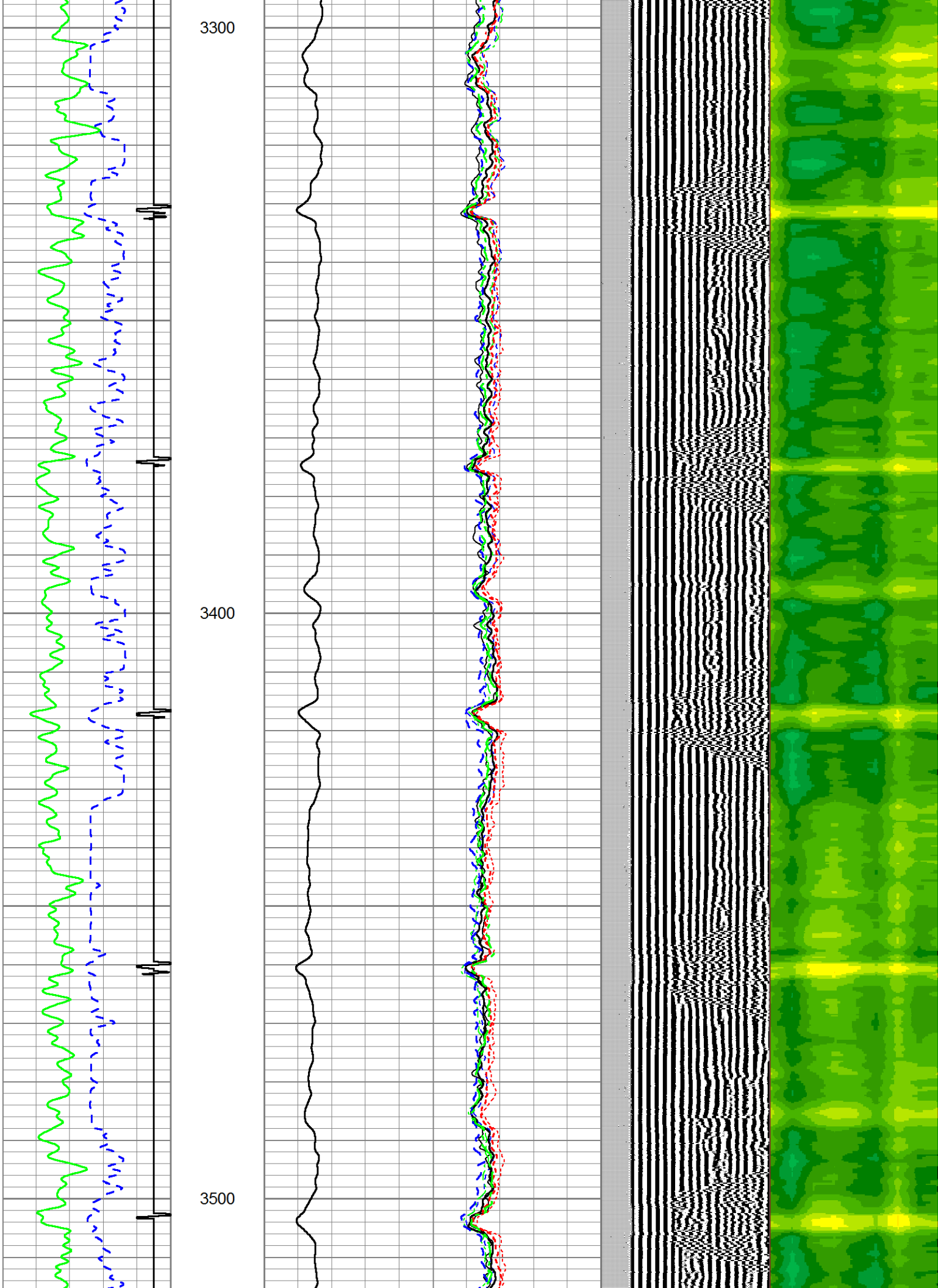


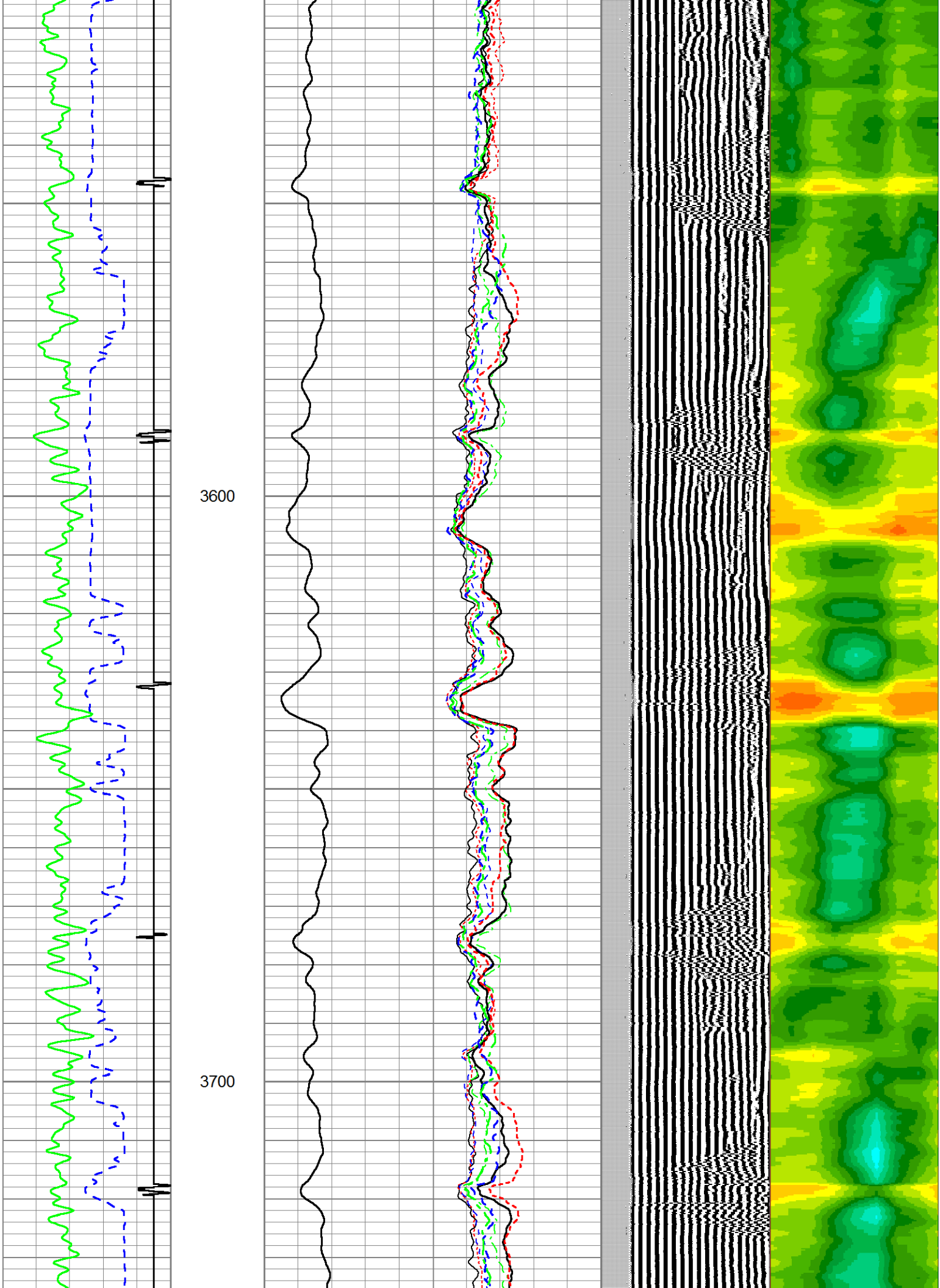


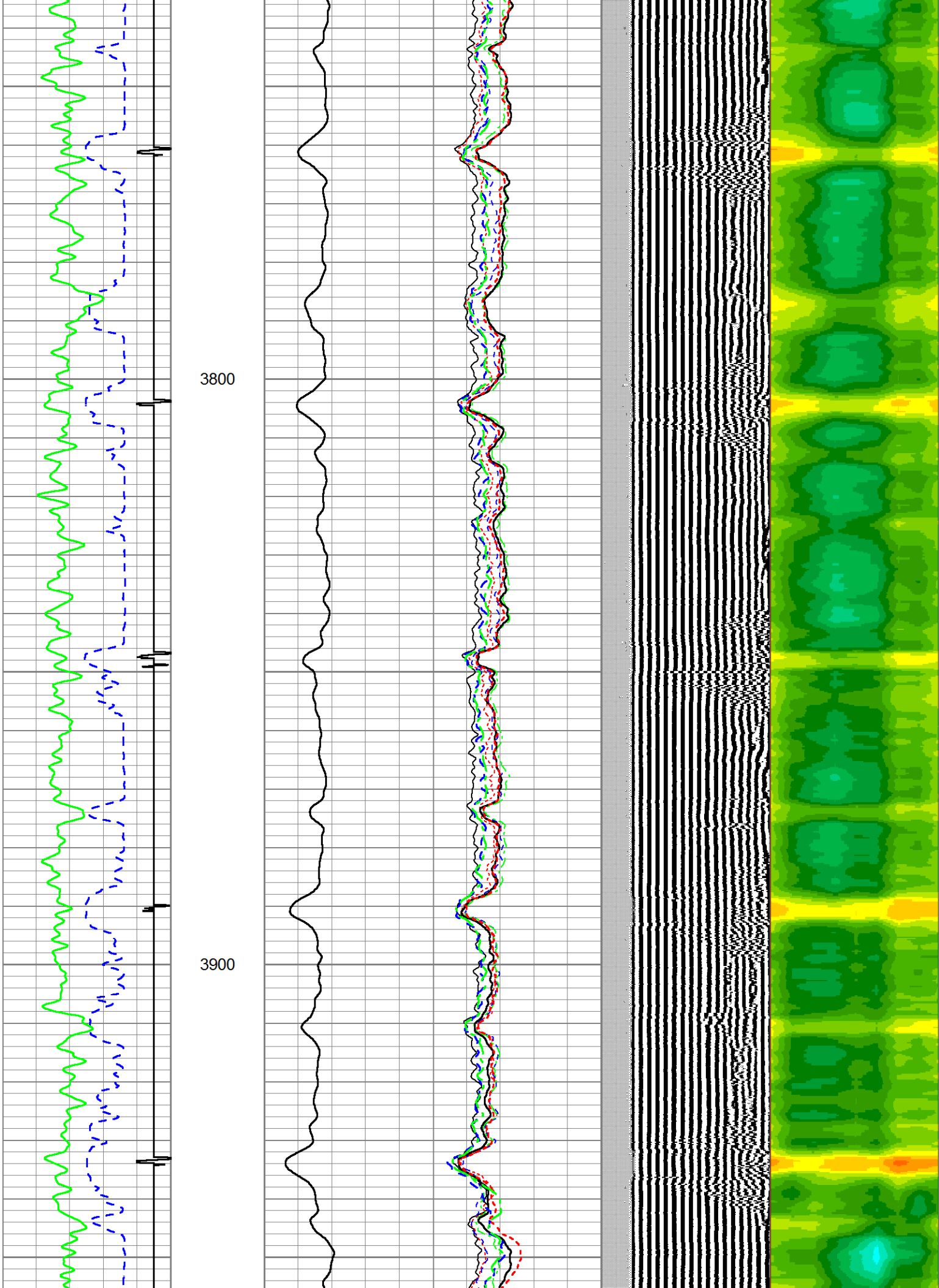
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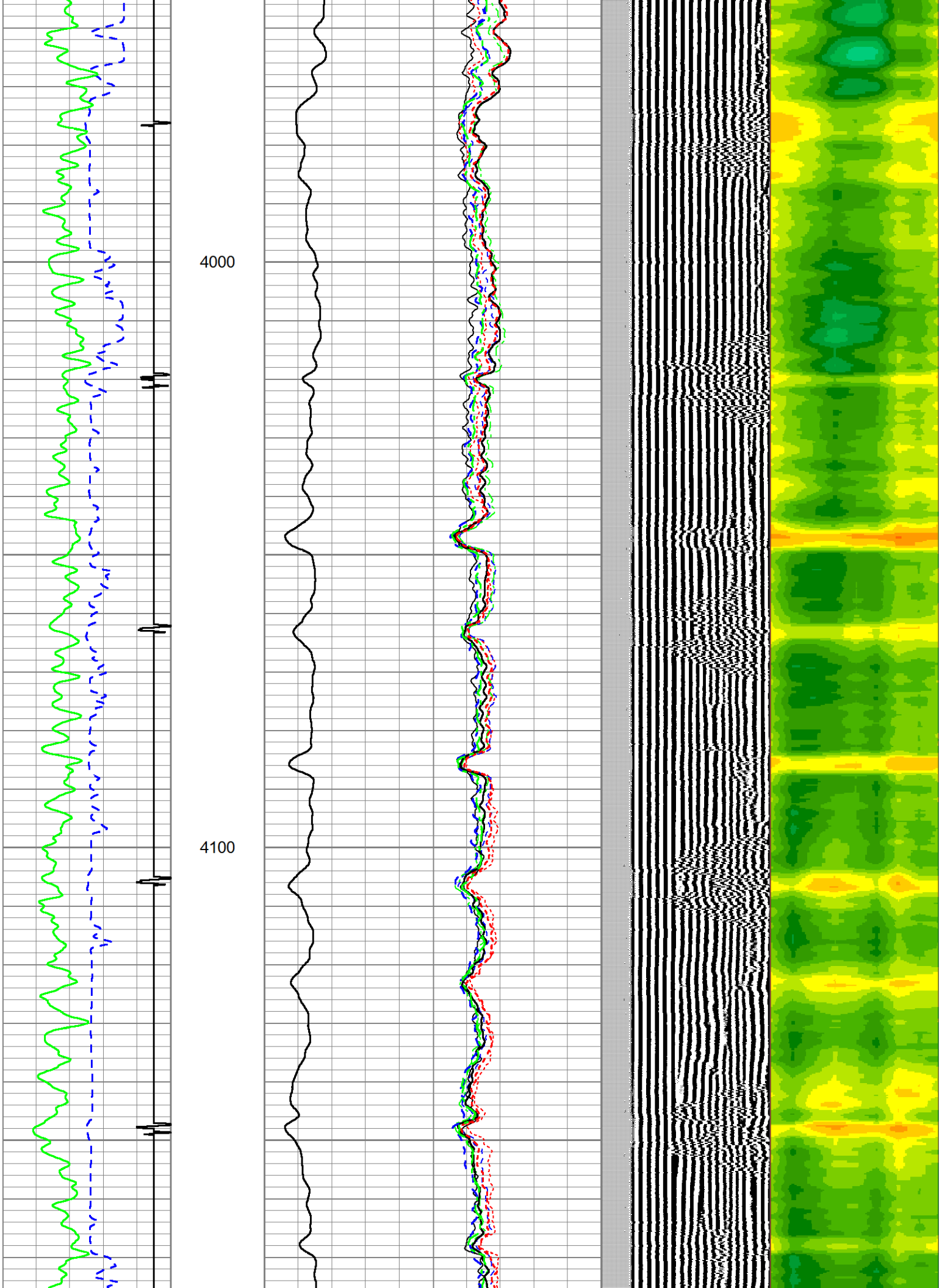
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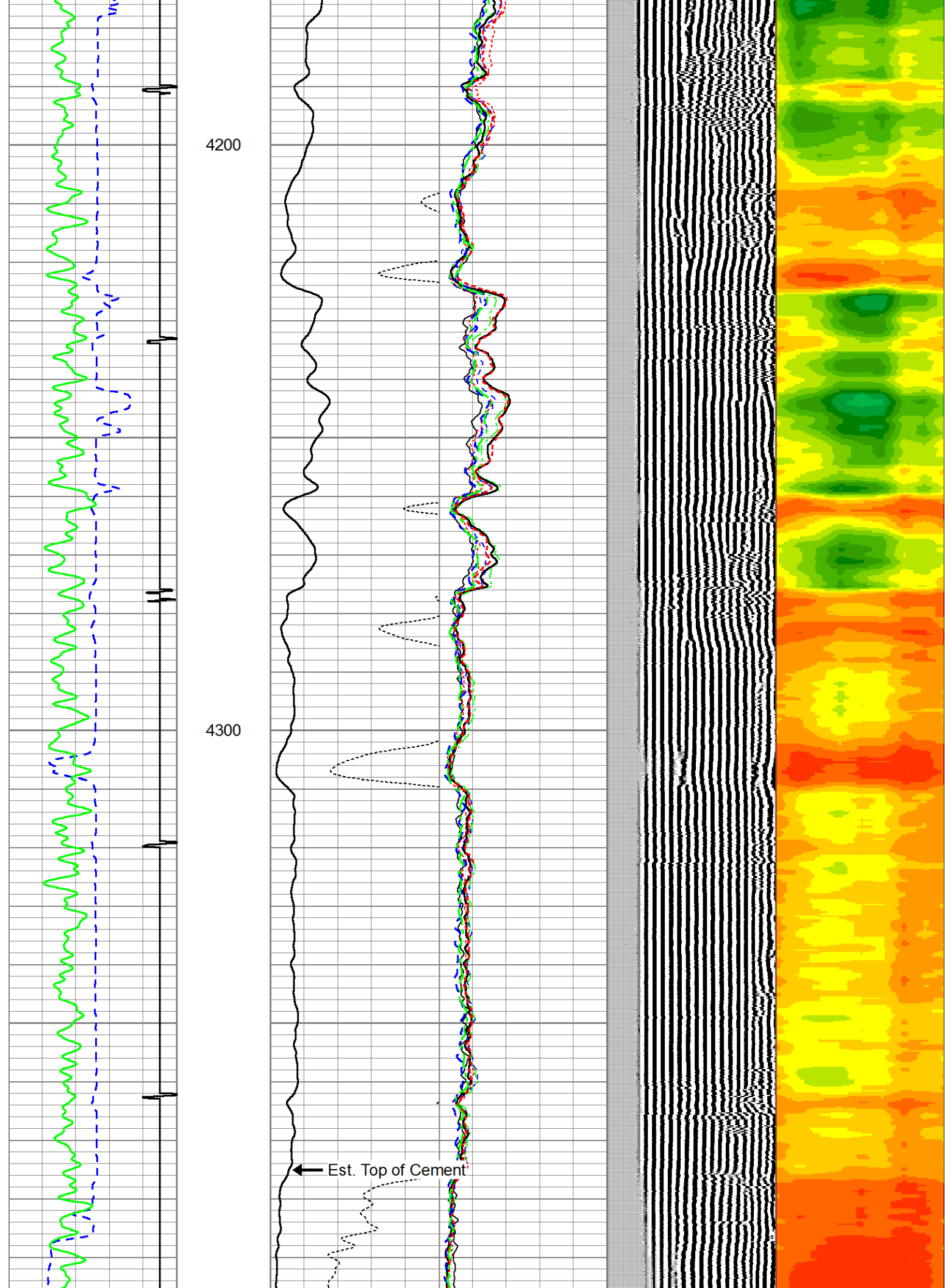
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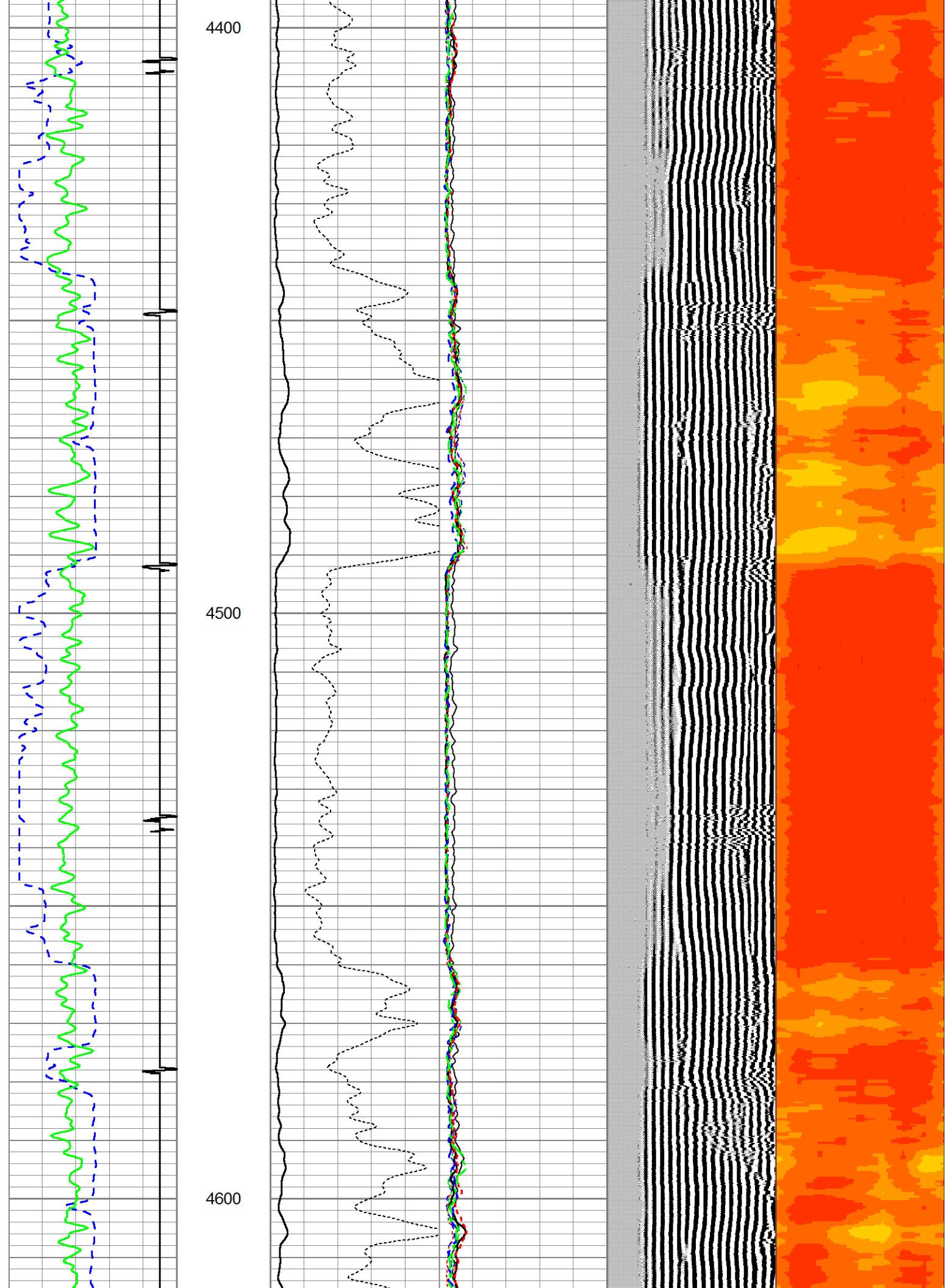


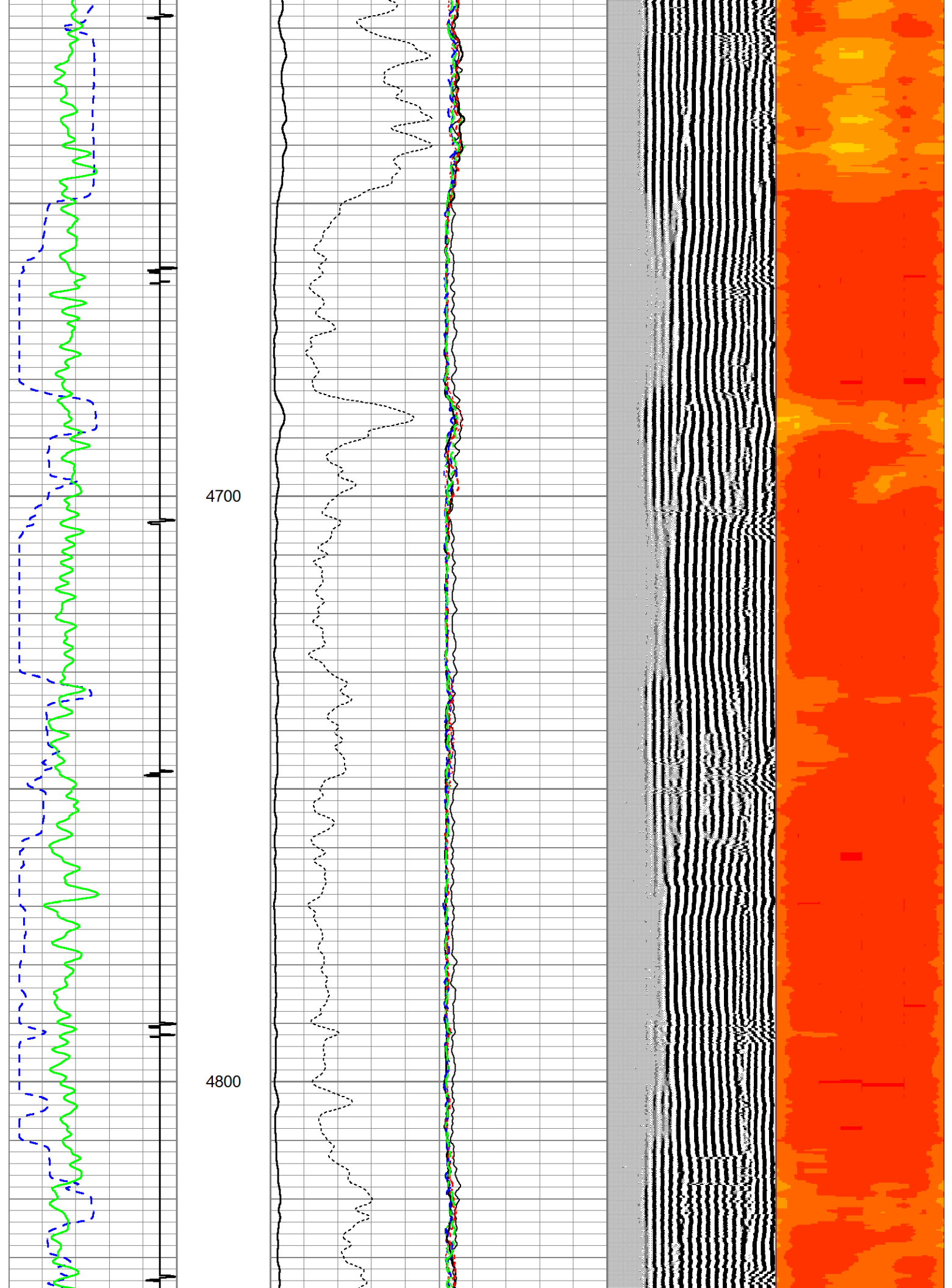


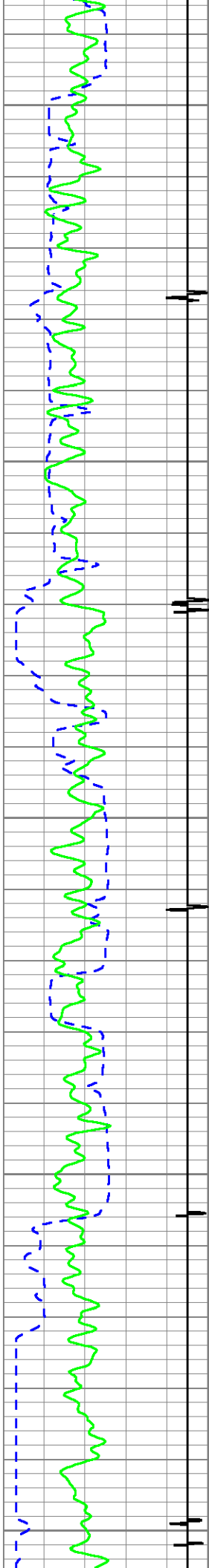






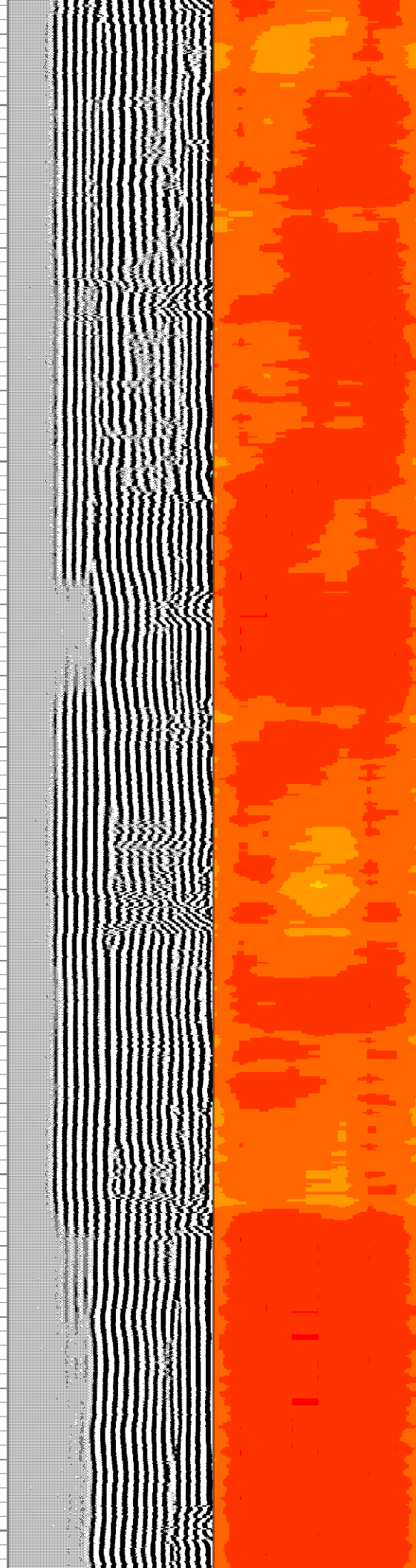
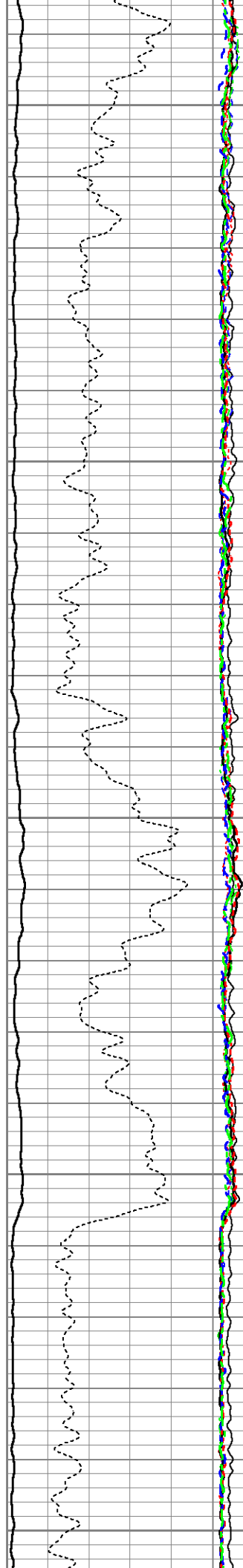


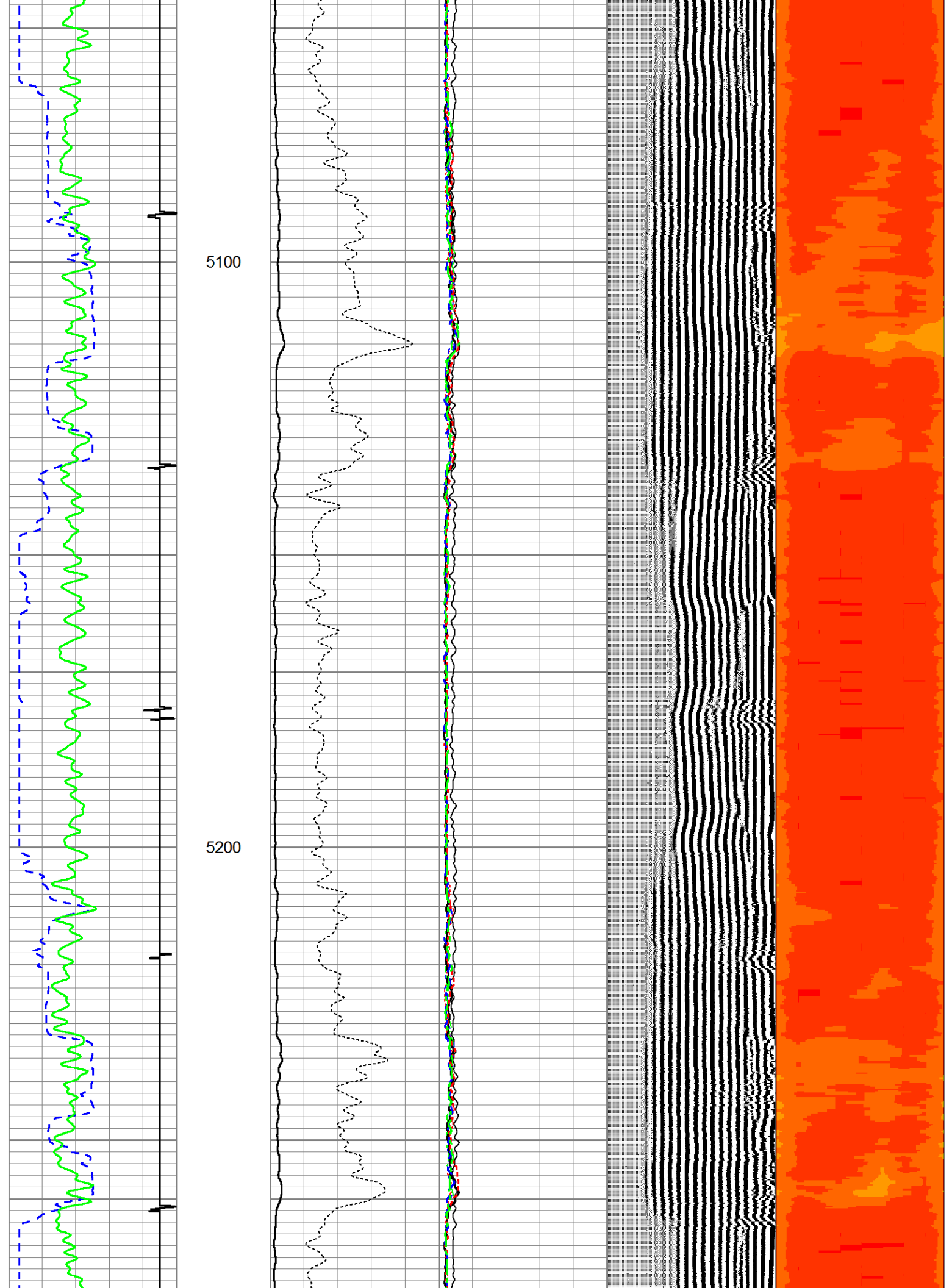


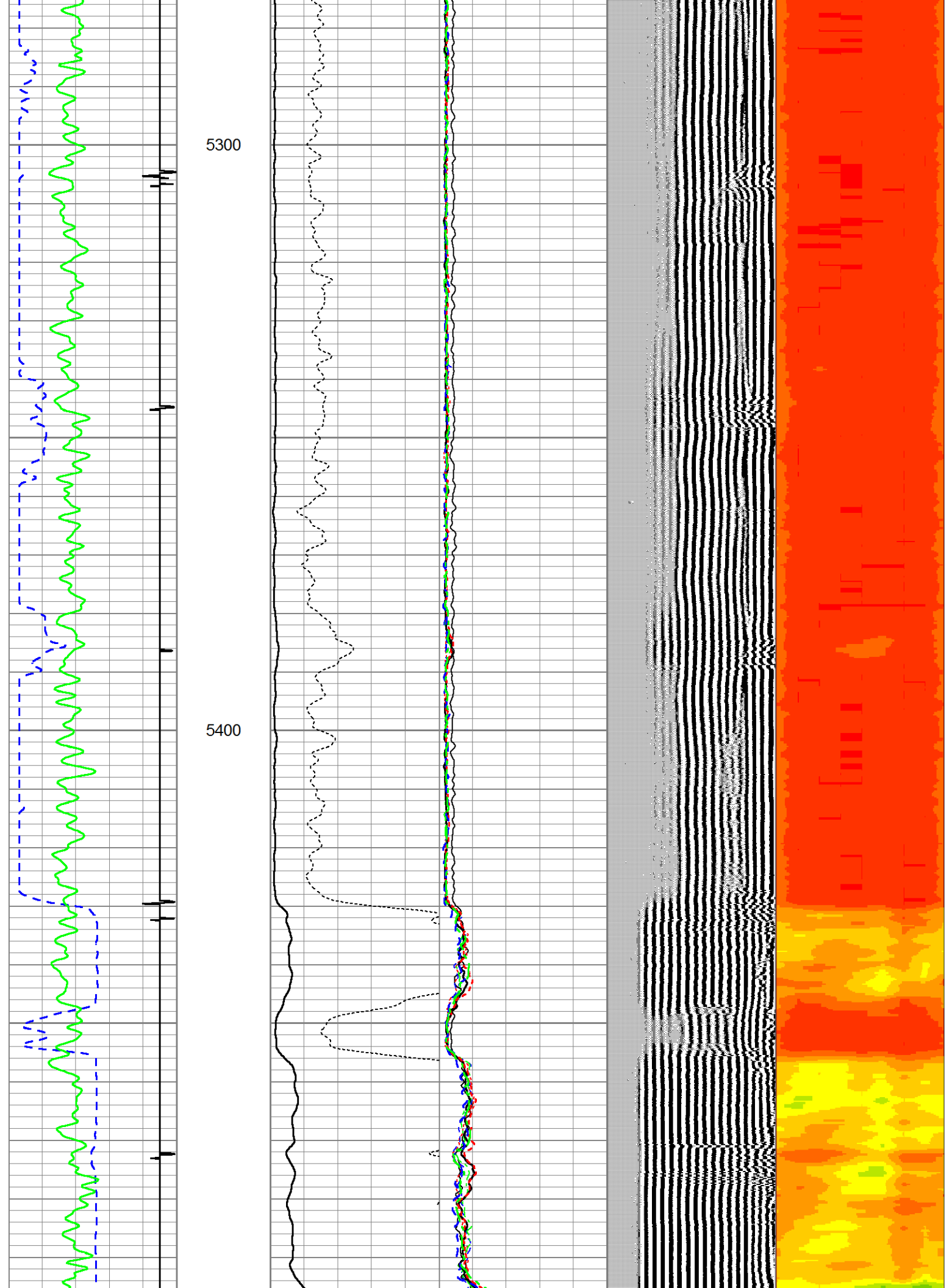


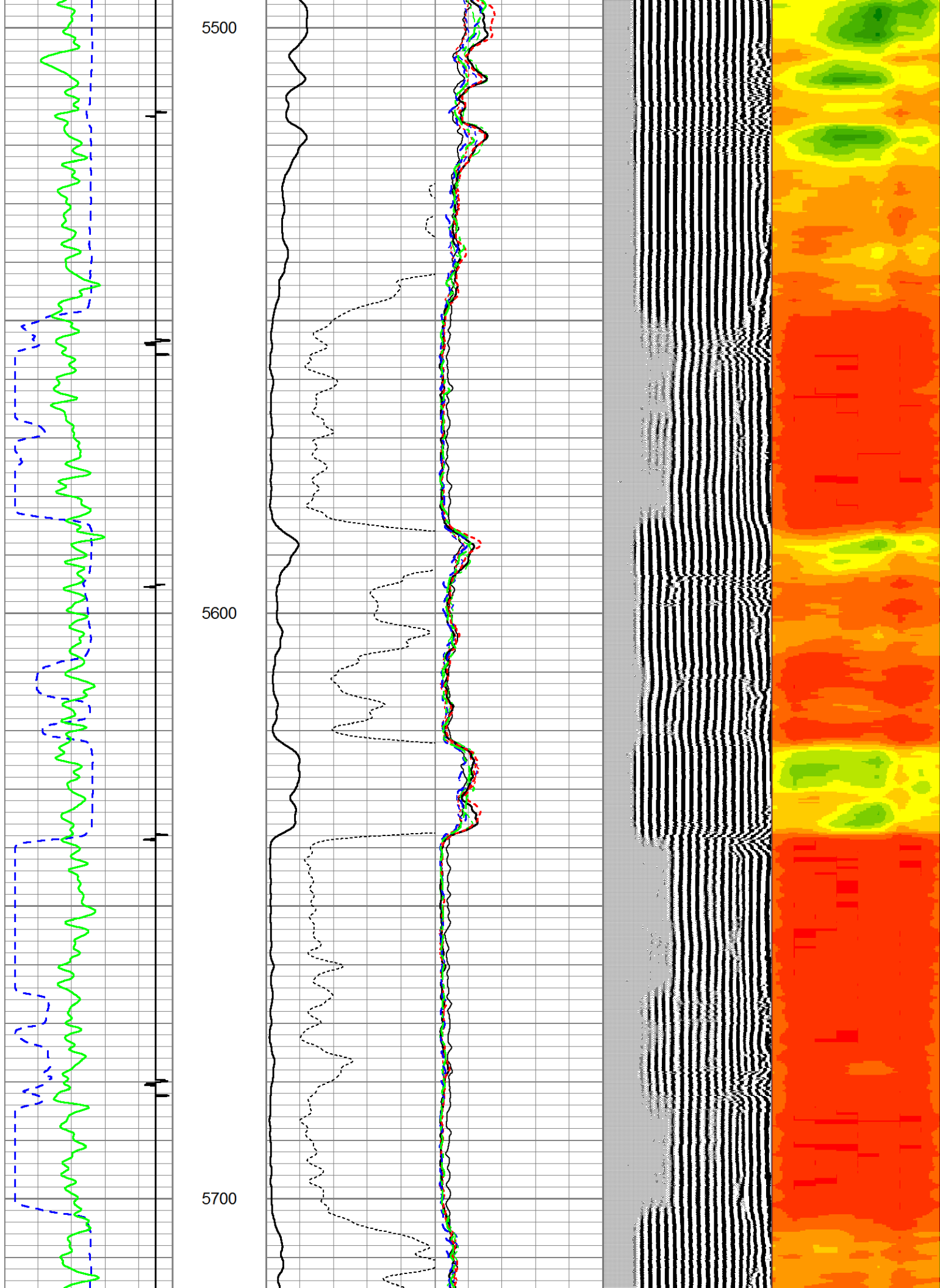
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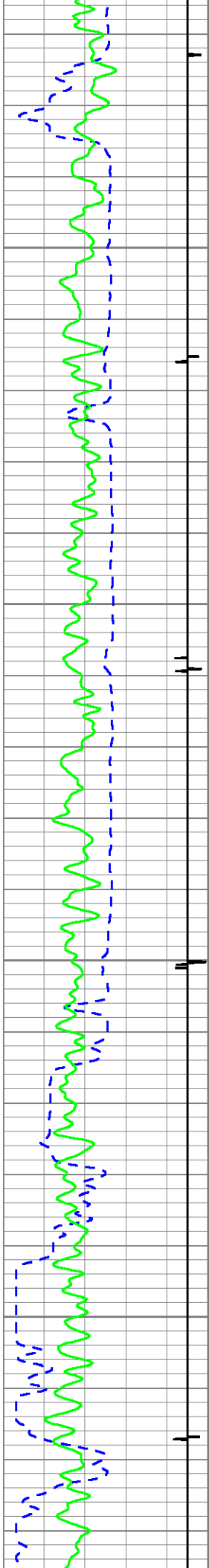
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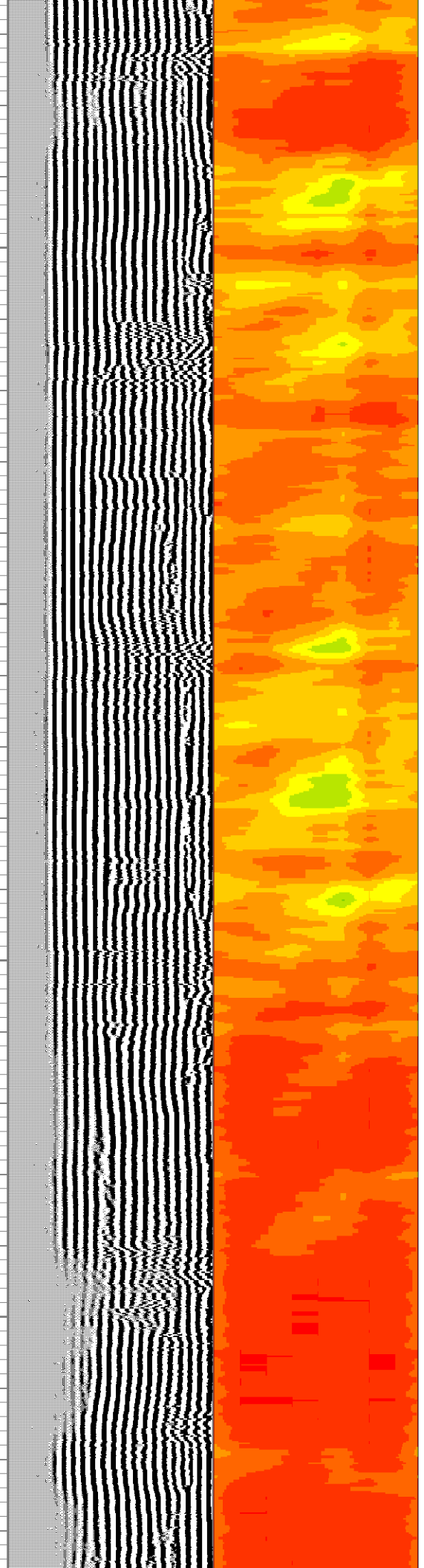
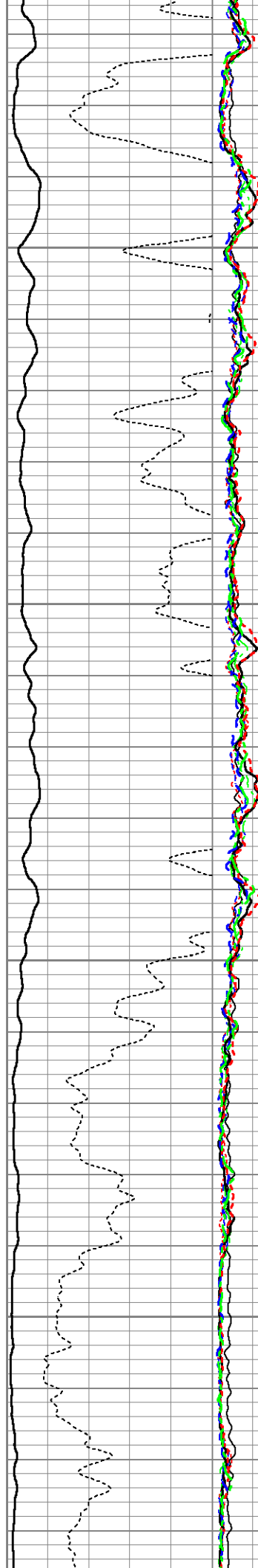


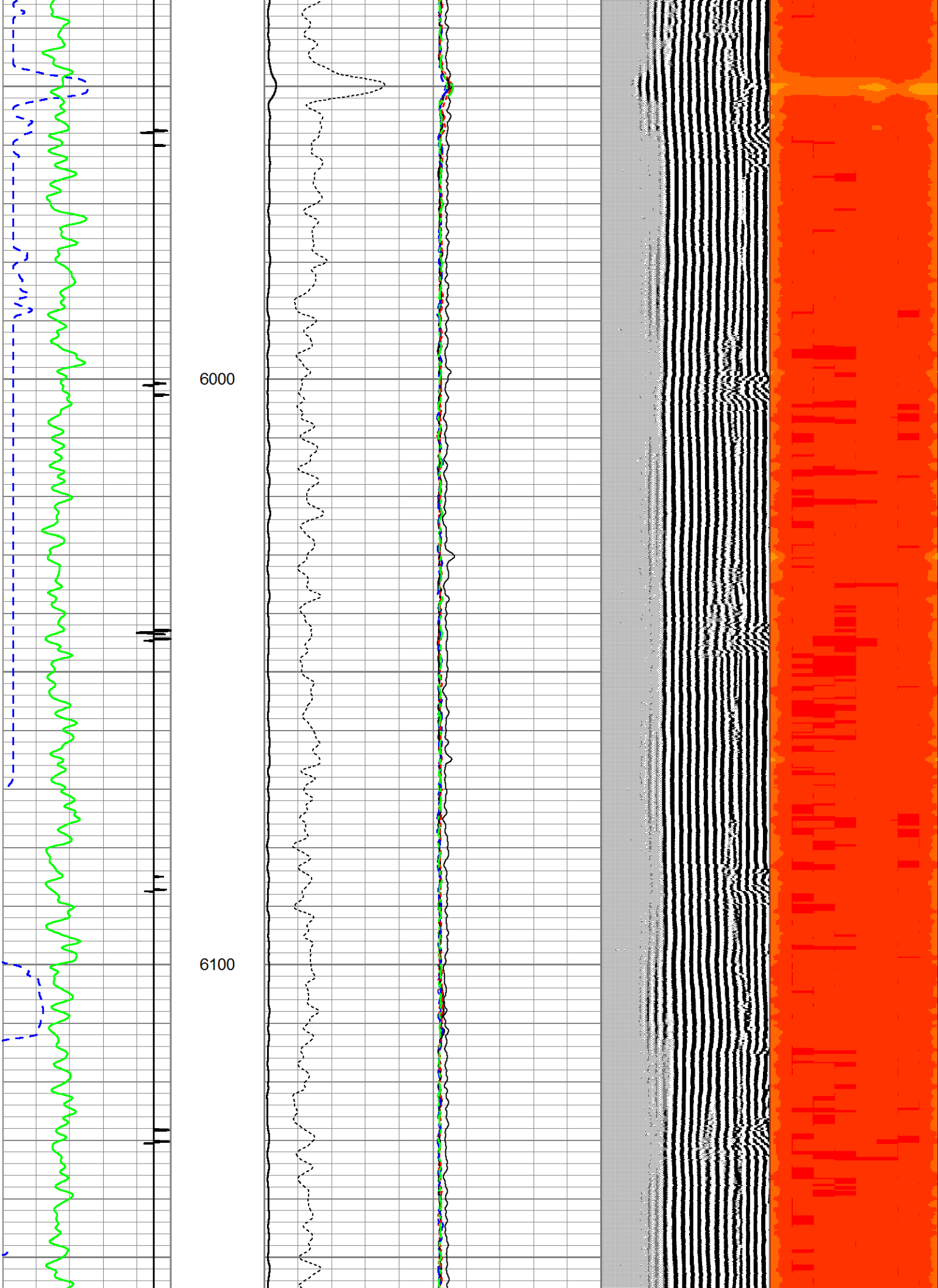


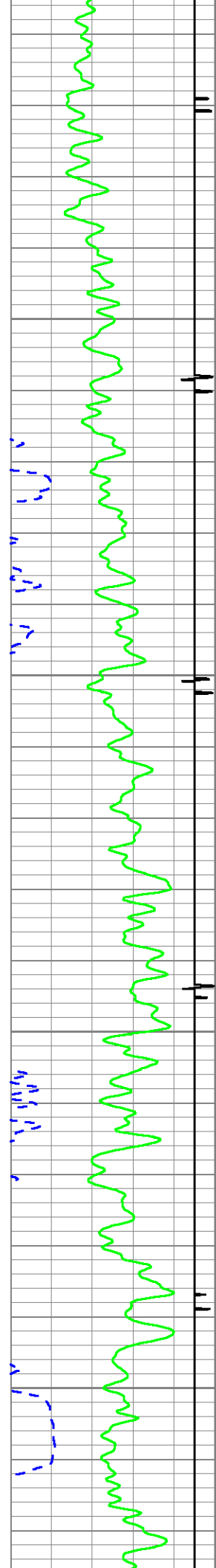


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5900

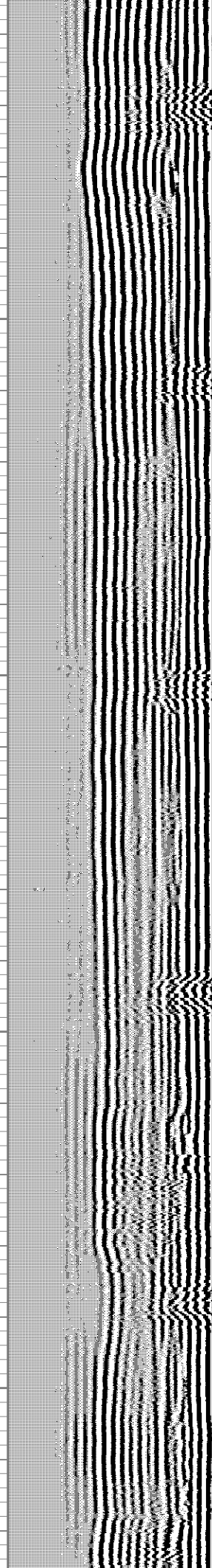
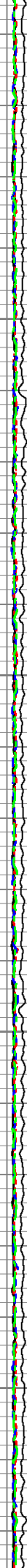
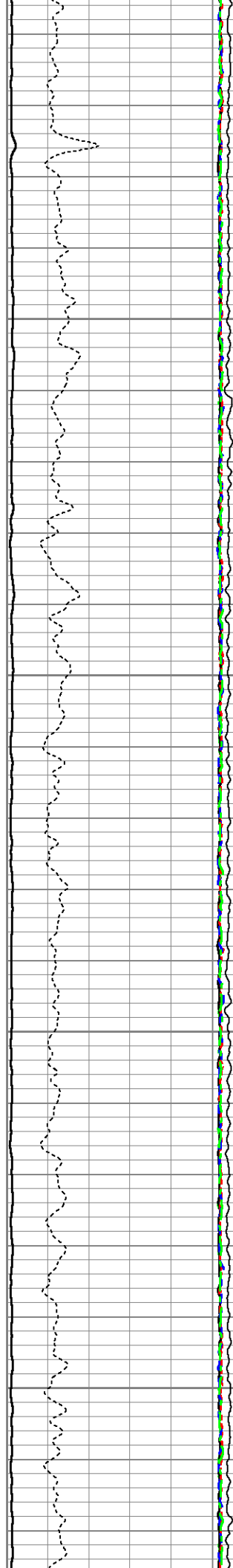


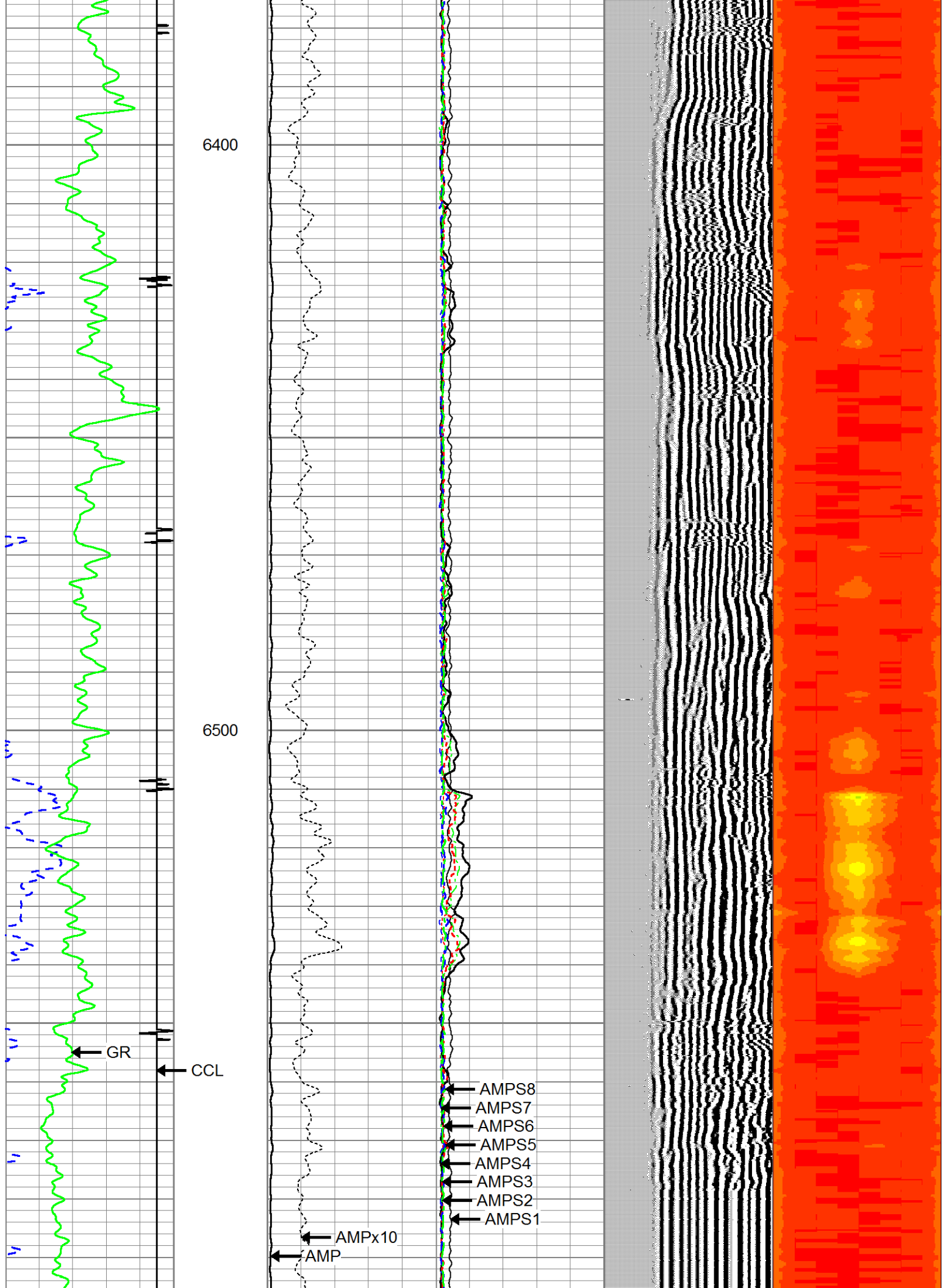


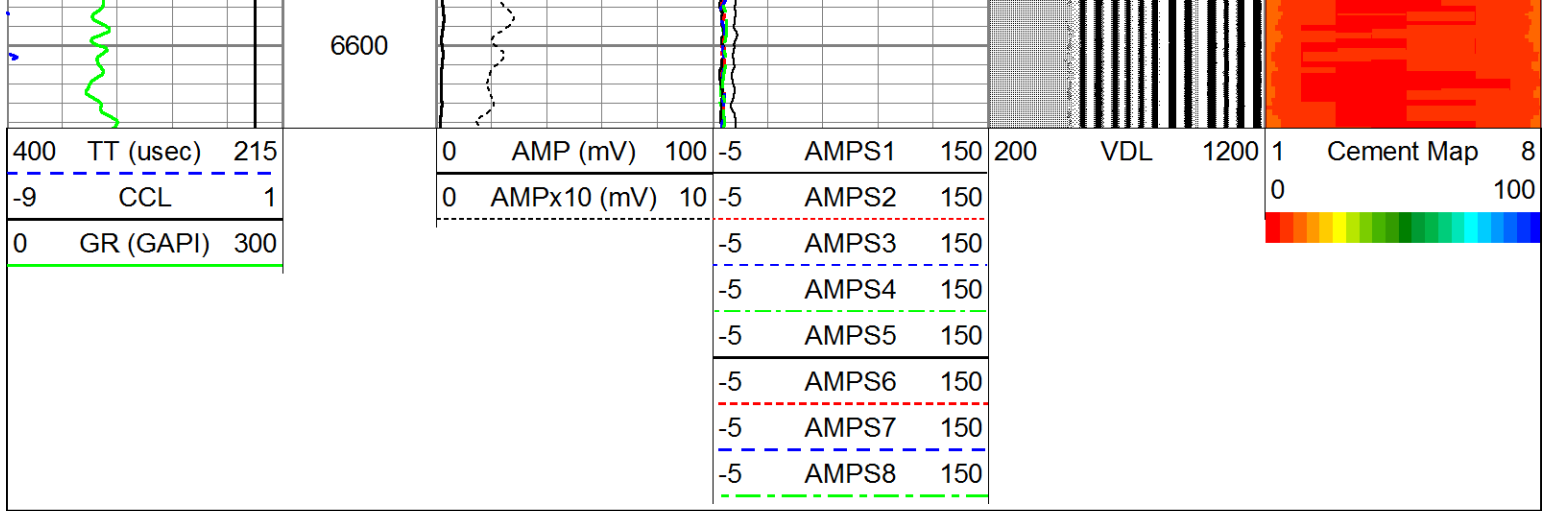


6200

6300







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Well	70 RANCH 10-13-2L
Field	WATTENBERG
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