

Radial Cement Bond
Variable Density Log
w/ Gamma Ray/CCL

Company Bayswater
Well Matrix L-29HC
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-40704

Lat: 40.452602 Long: -104.688464

SEC 29 TWP 6N RGE 65W

Permanent Datum Ground Level Elevation 4708'
Log Measured From Kelly Bushing 0' APD
Drilling Measured From Kelly Bushing

Other Services
None
Elevation

K.B.
D.F.
G.L. 4708'

Date March 24, 2015

Run Number	1		
Depth Driller	-		
Depth Logger	6684'		
Bottom Logged Interval	6674'		
Top Log Interval	Surface		
Open Hole Size	8 3/4"		
Type Fluid	Fresh Water		
Density / Viscosity	8.33#		
Max. Recorded Temp.	-		
Estimated Cement Top	Surface		
Time Well Ready	16:40		
Time Logger on Bottom	17:10		
Equipment Number	13033		
Location	Brighton, Co		
Recorded By	Cody Rall		
Witnessed By	Jack Bruner		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Conductor							
Surface							
Intermediate							
Production							
Casing Record	Size		Wgt/ft	Top		Bottom	
Surface String							
Prot. String							
Production String	7"		26#	Surface		-	
Liner	4 1/2"		11.6#	6691'			
Short Joint							

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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

Primary Log on Well

Logged using 0' KB
Main And Repeat Pass logged w/0 PSI

Estimated Top of Cement @ Surface

Thank You for using Allied-Horizontal Wireline Services
(303) 659-4609

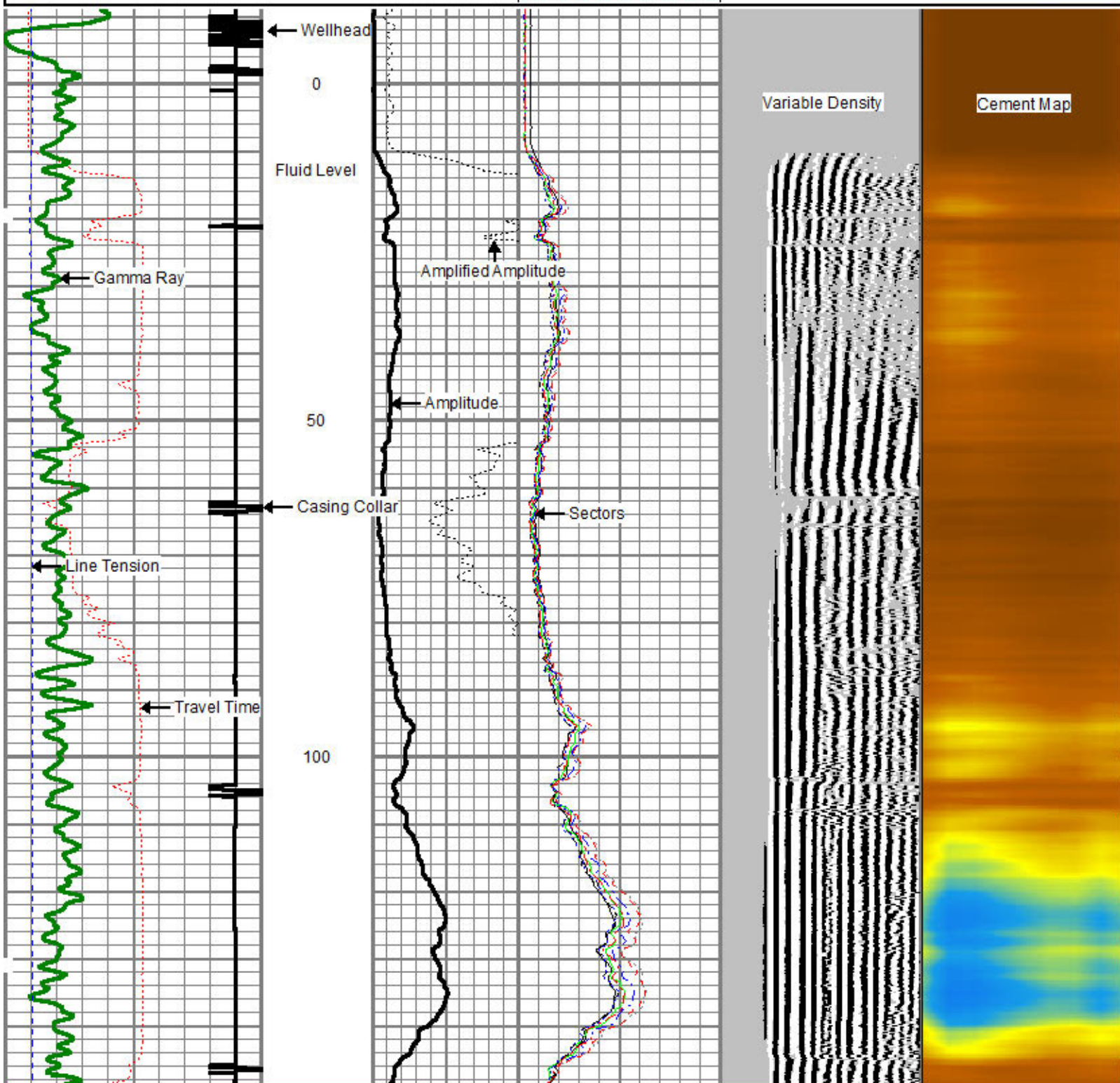
WIRELINE SERVICES

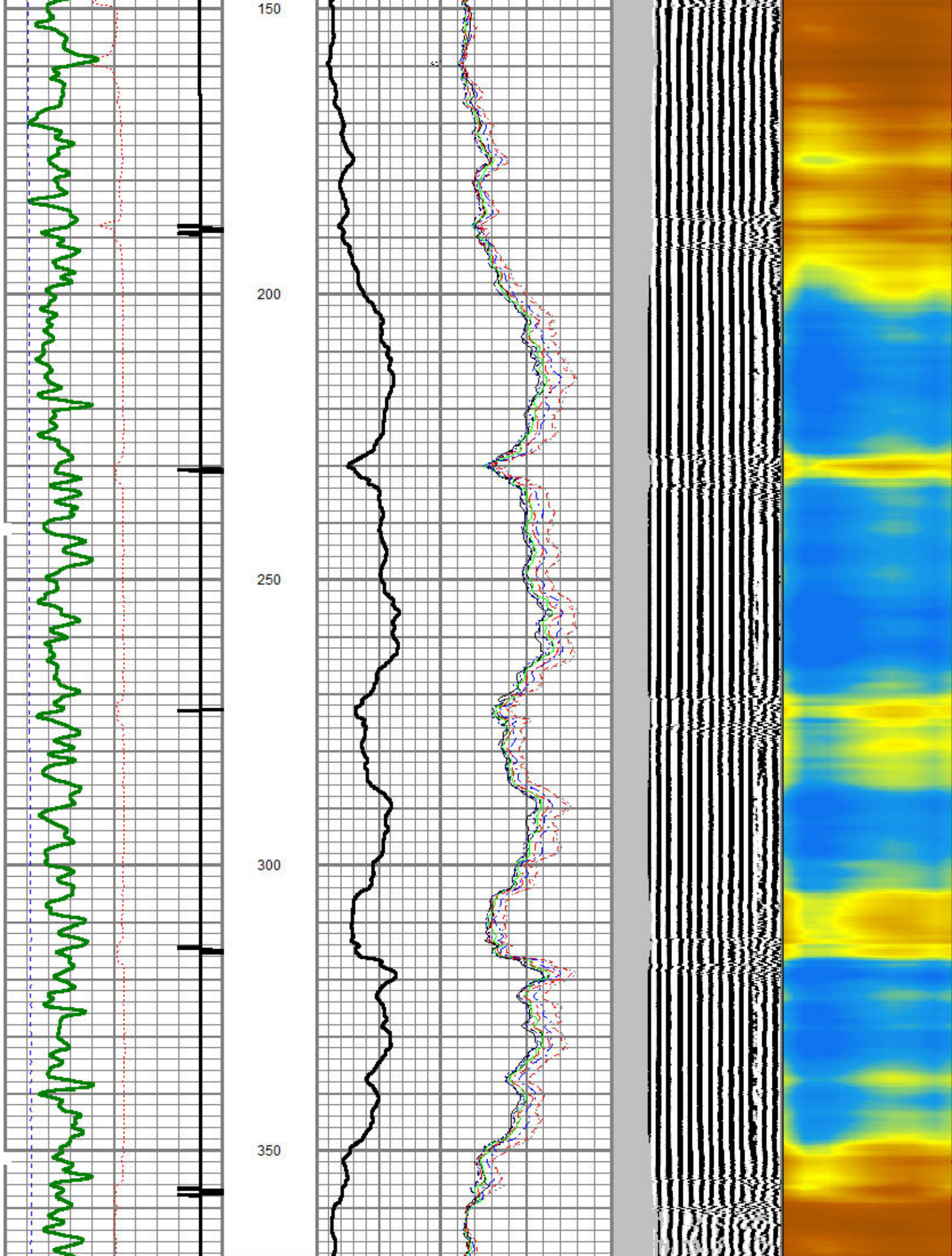
Database File: bayswater matrix I-29hc.db
 Dataset Pathname: pass6
 Presentation Format: scbl03
 Dataset Creation: Tue Mar 24 17:15:50 2015 by Log 0
 Charted by: Depth in Feet scaled 1:240

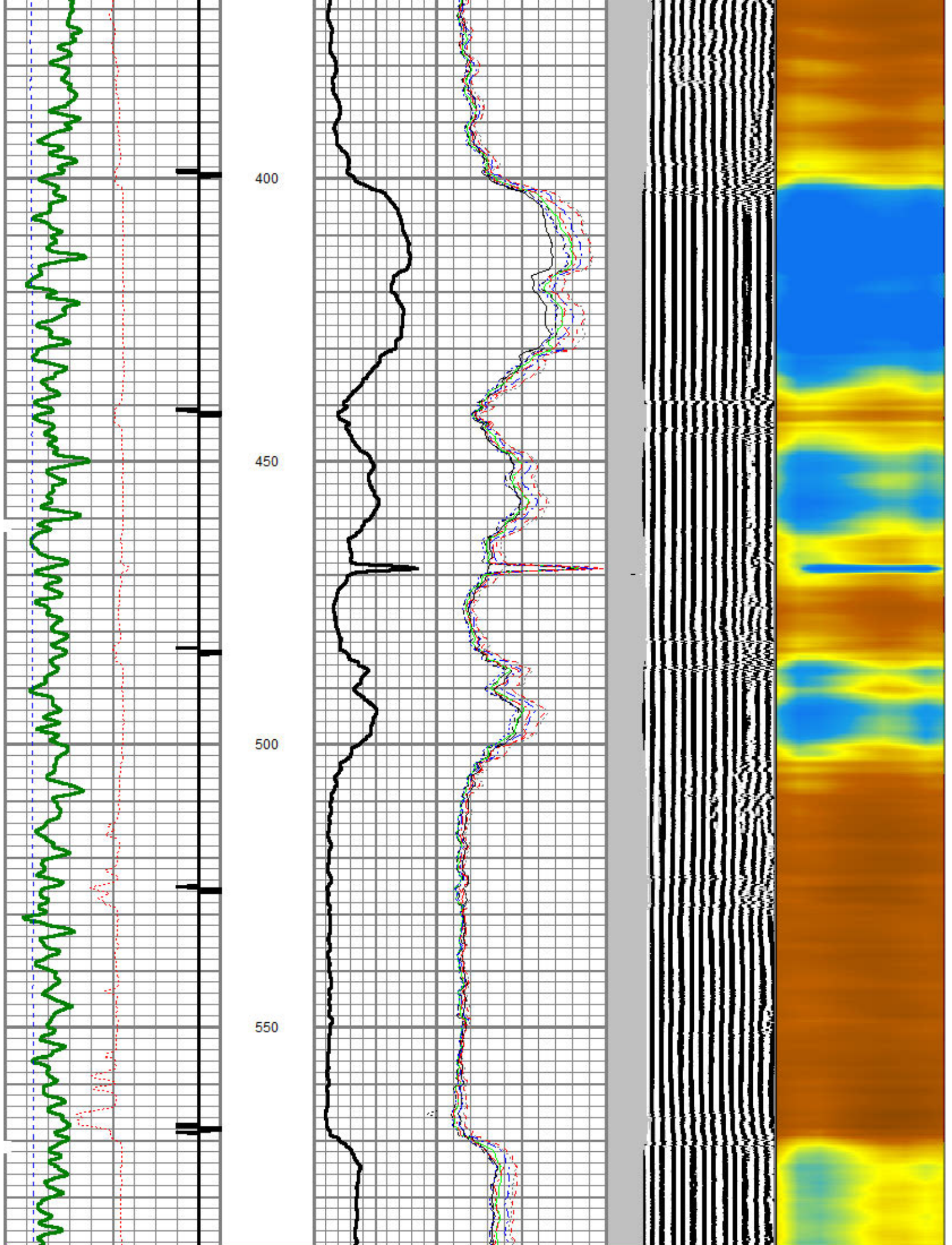
400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	2000

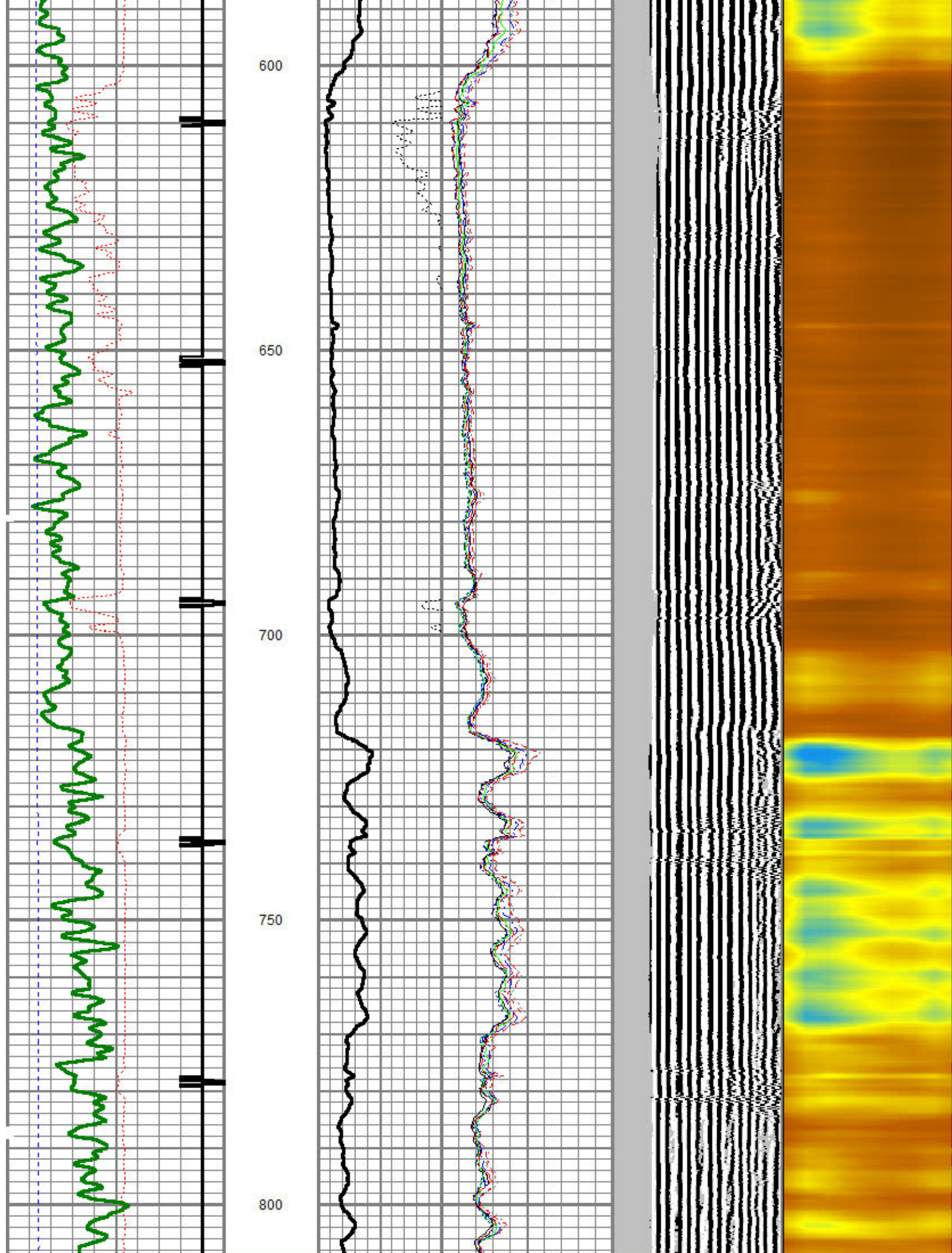
Amplitude	-5	AMPS1	150
0 (mV)	-5	AMPS2	150
Amplified Amplitude	-5	AMPS3	150
0 (mV)	-5	AMPS4	150
	-5	AMPS5	150
	-5	AMPS6	150
	-5	AMPS7	150
	-5	AMPS8	150

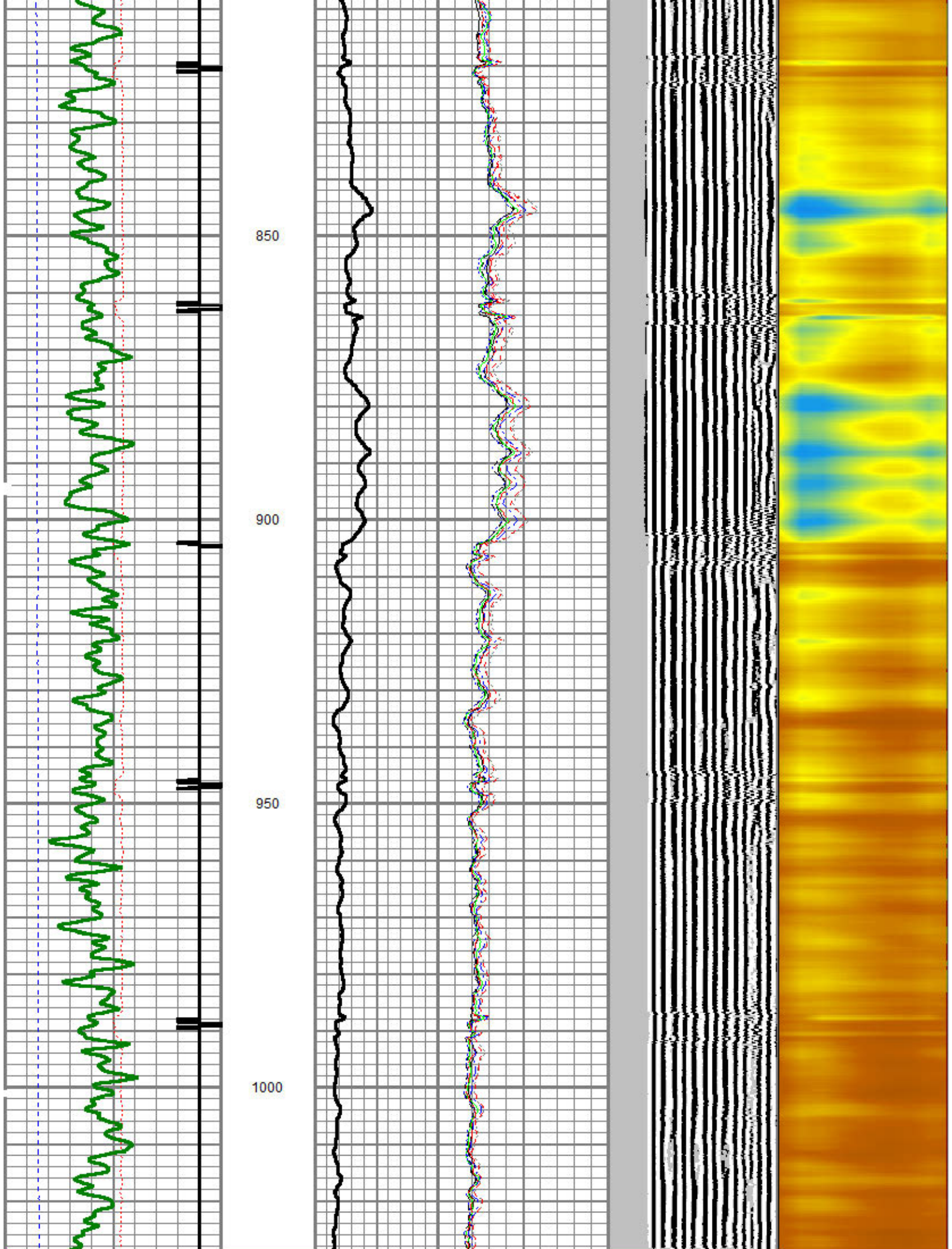
Variable Density	1	Cement Map	8
200	1200	0	100

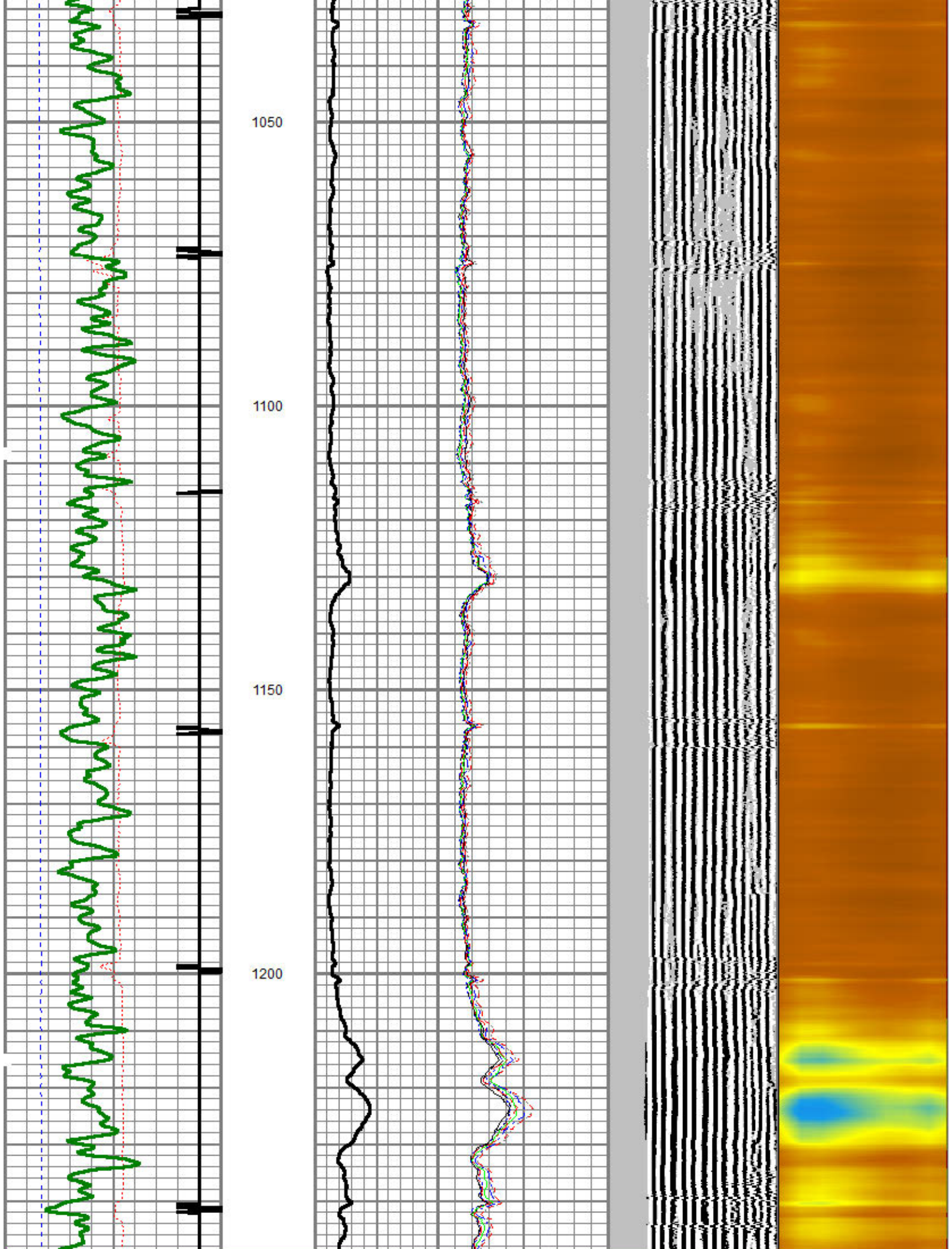


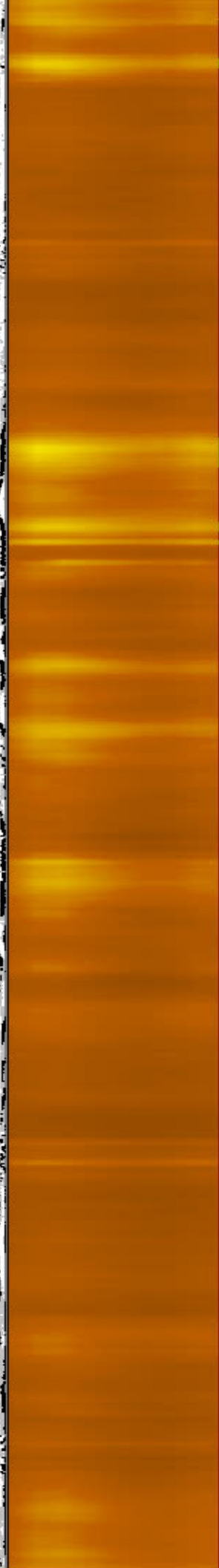
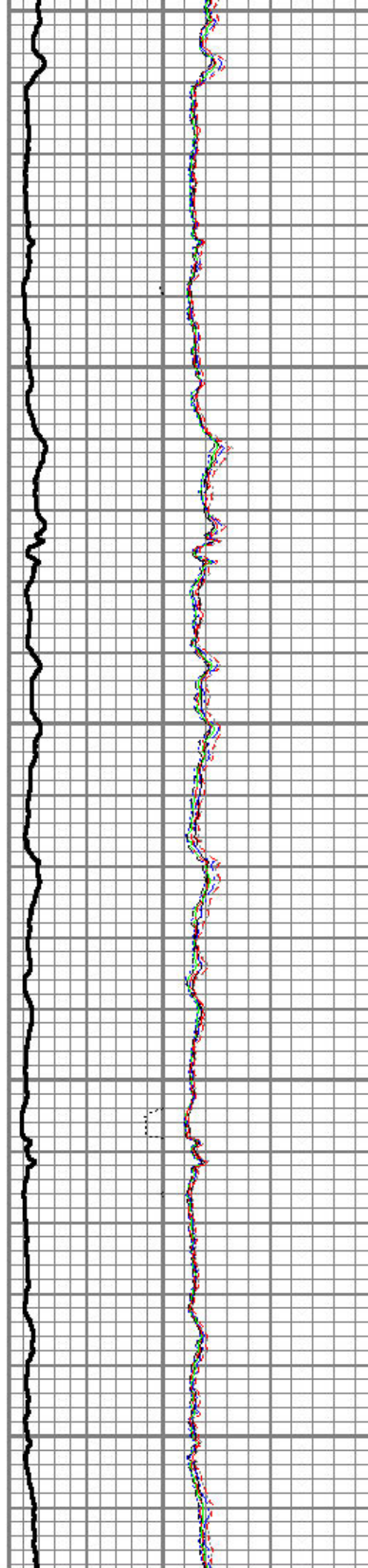
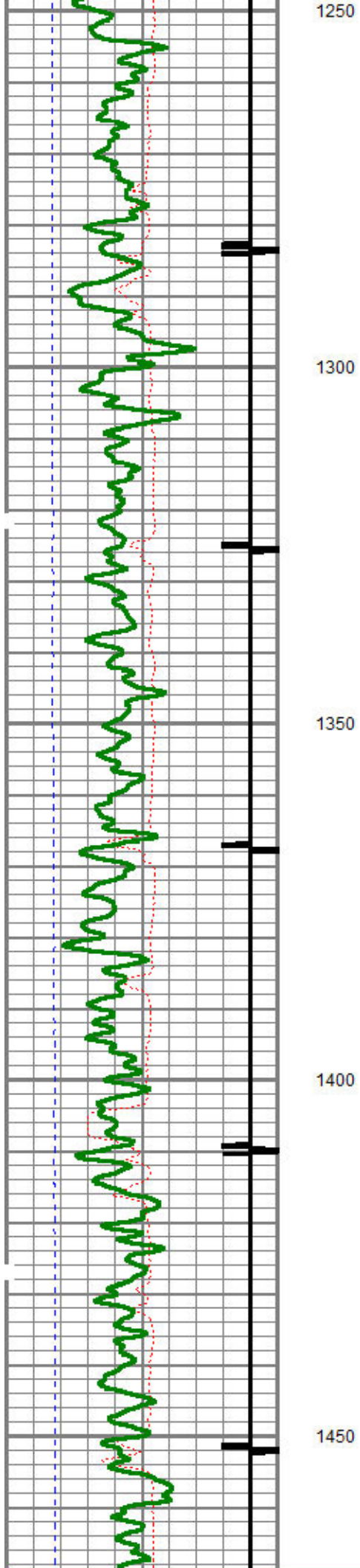


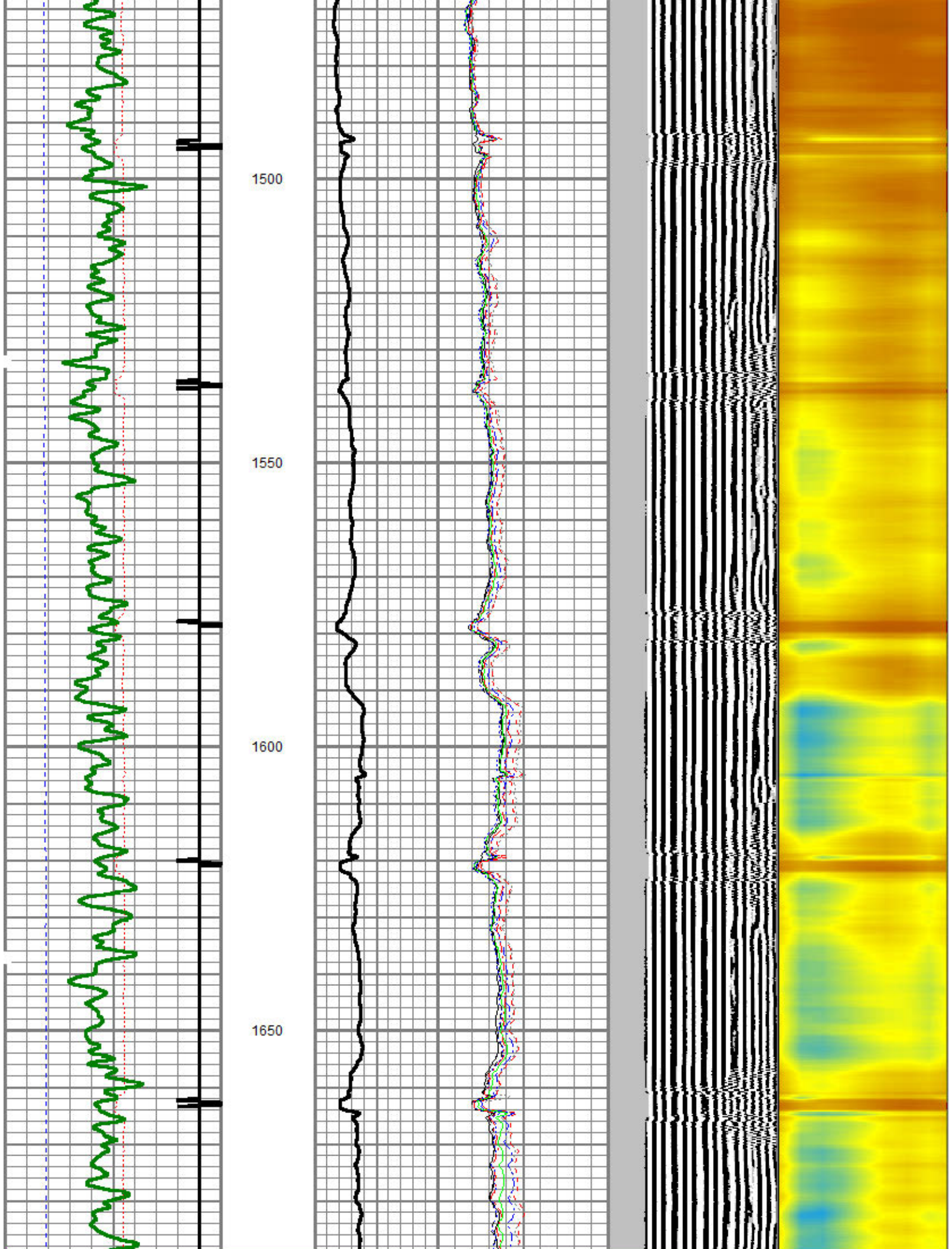


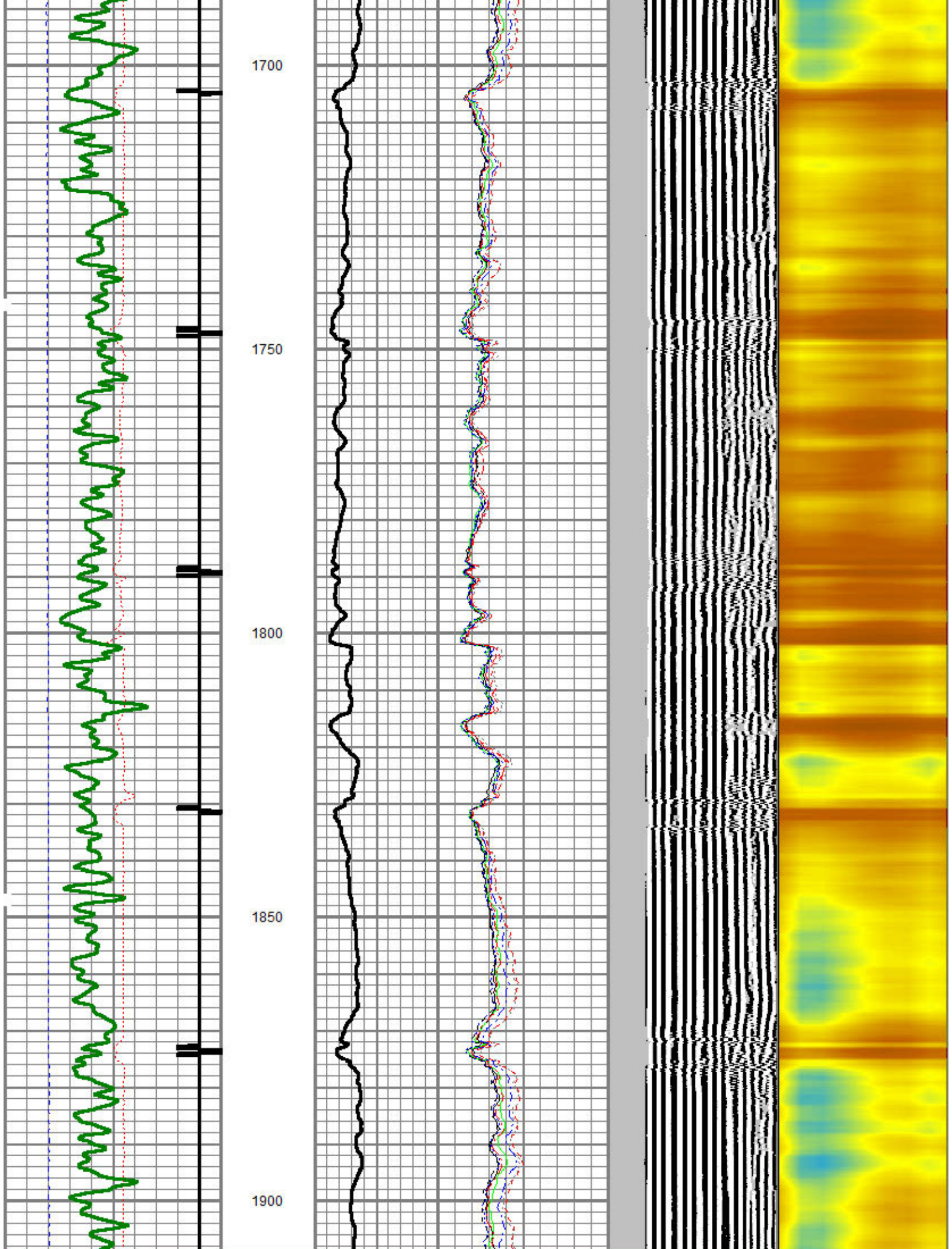


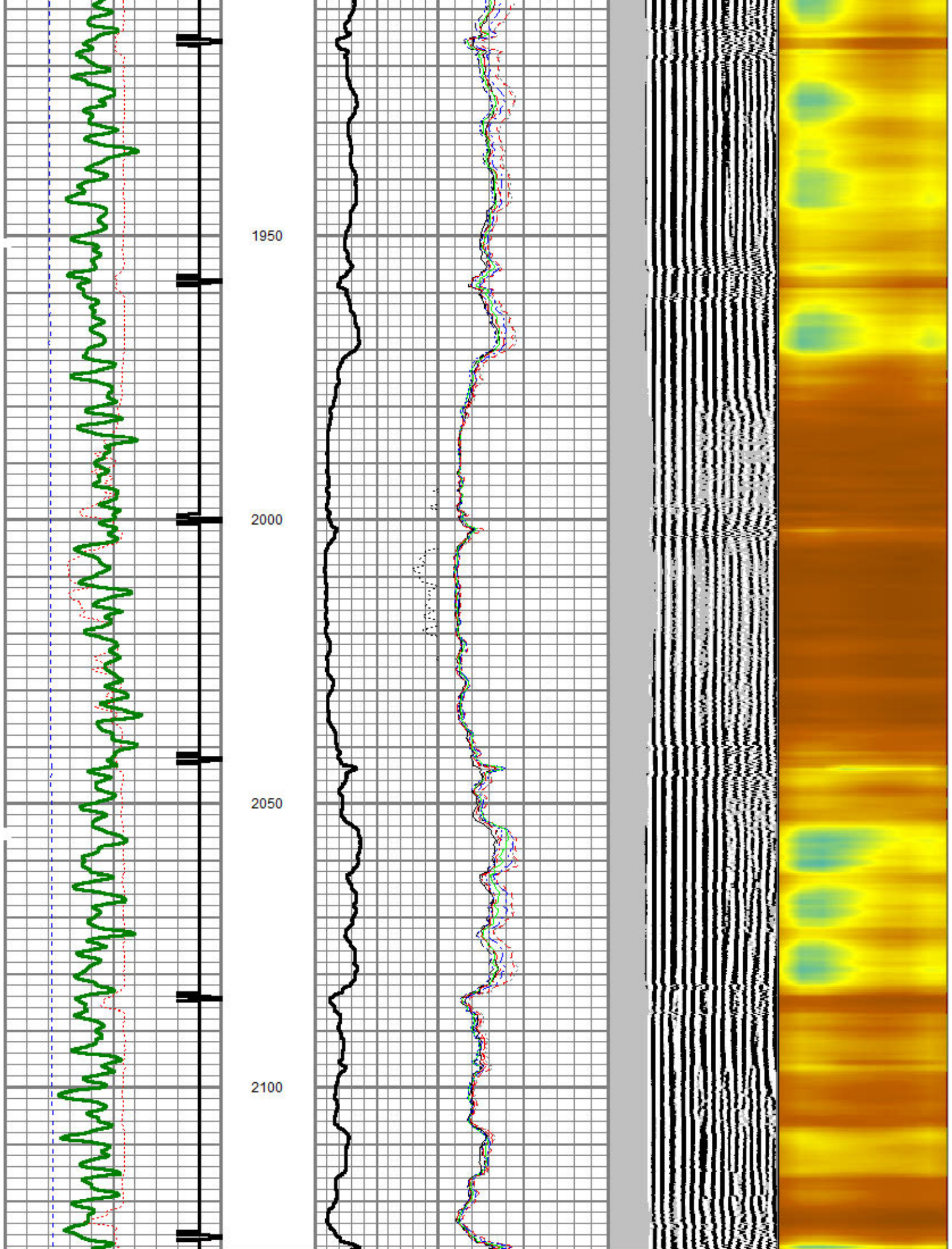


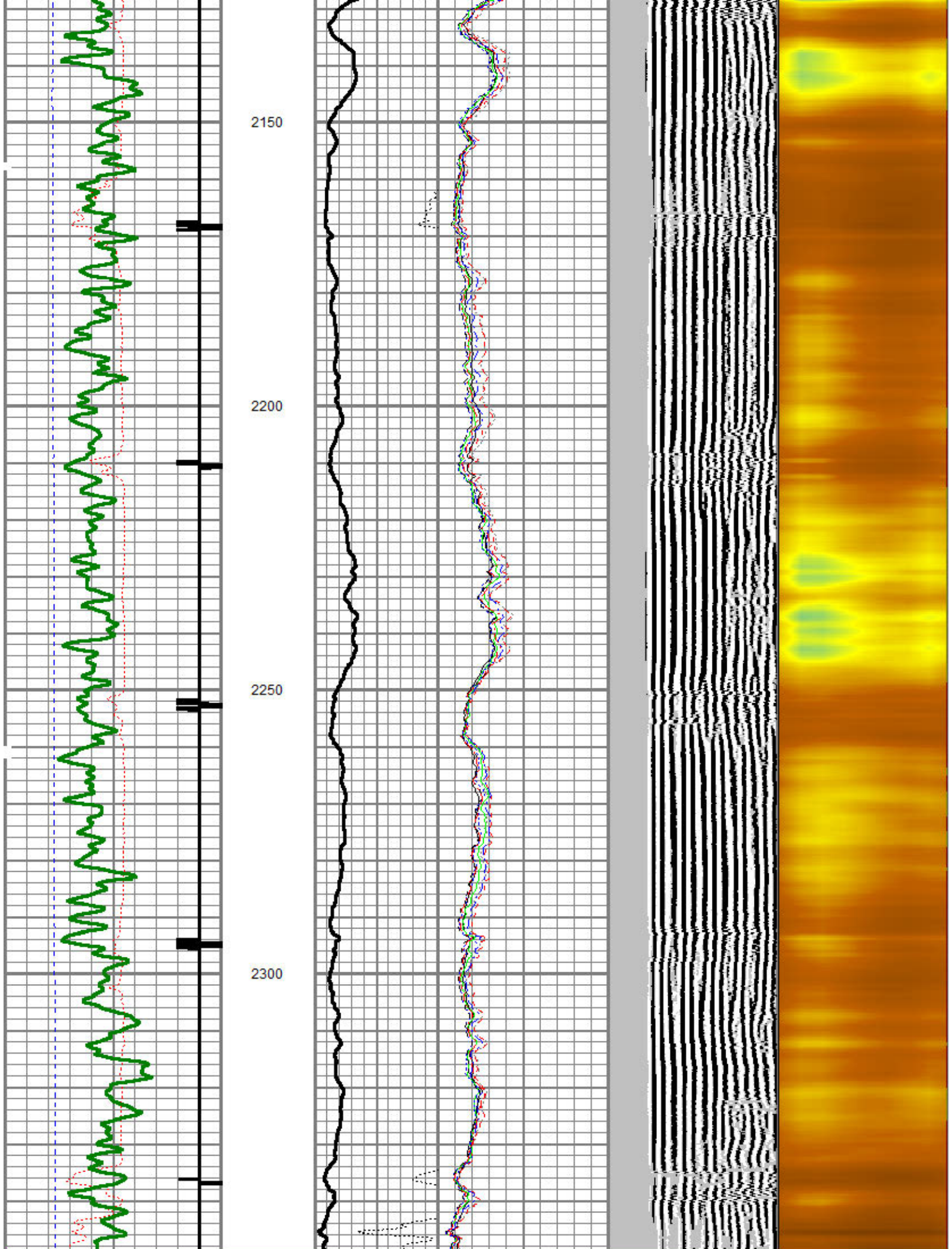


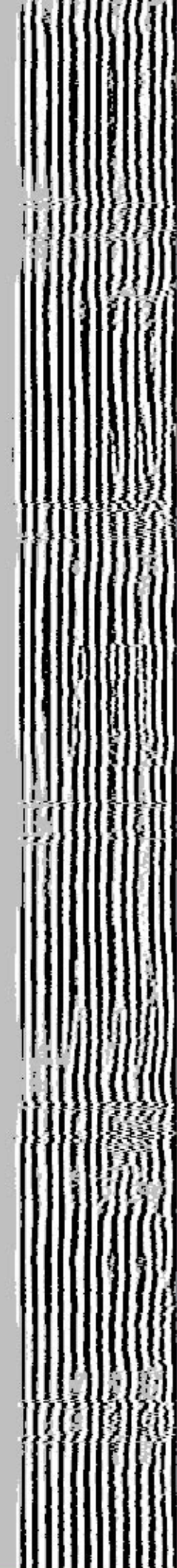
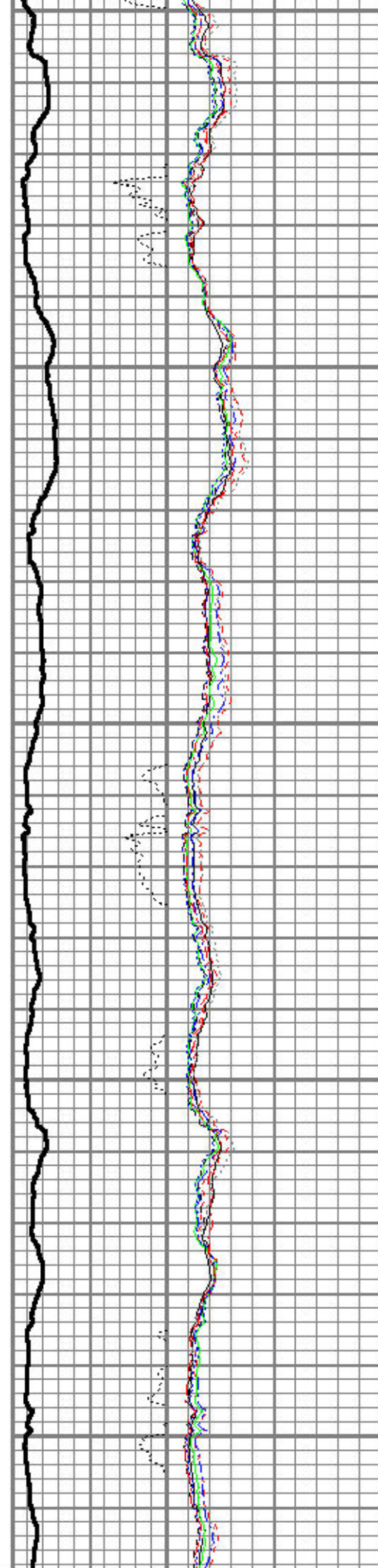
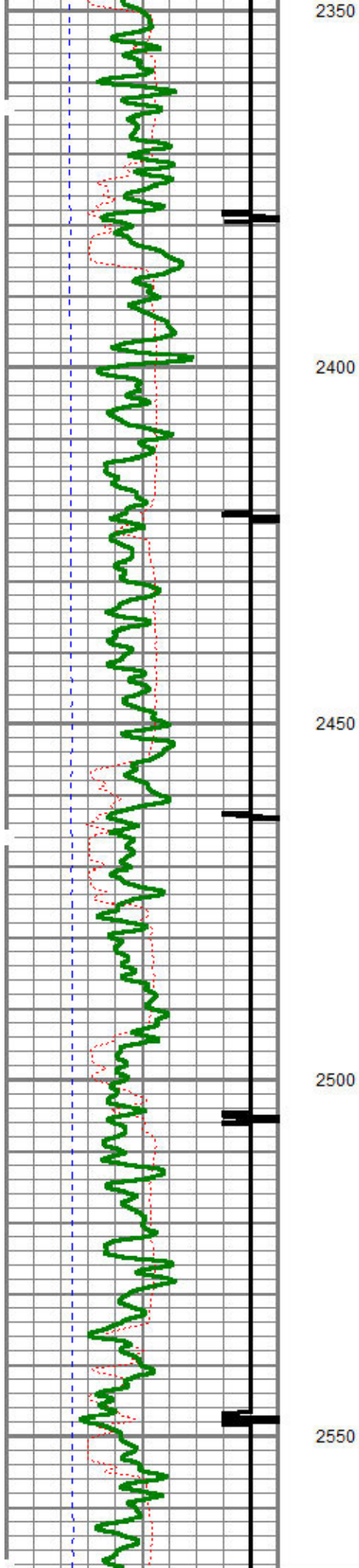


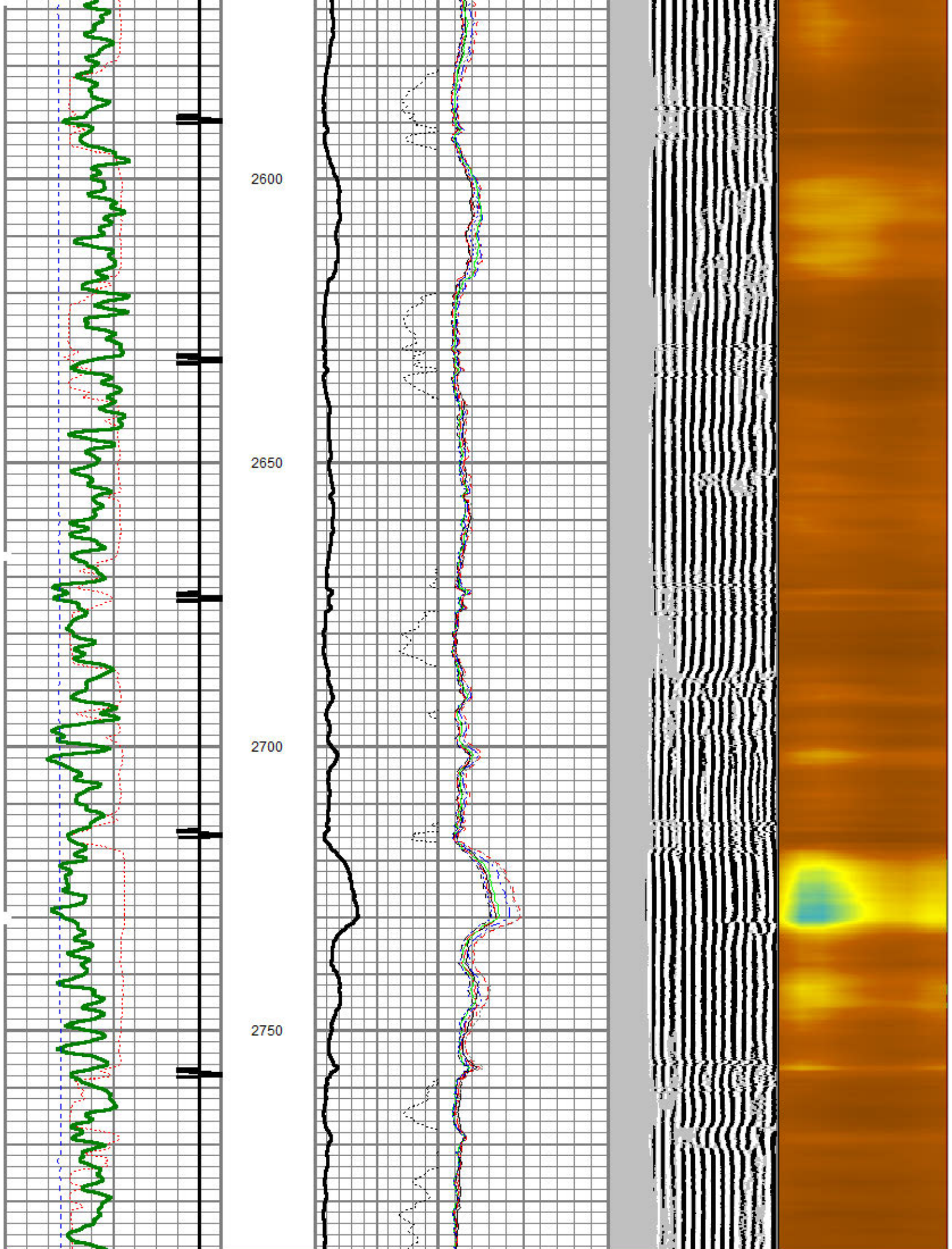


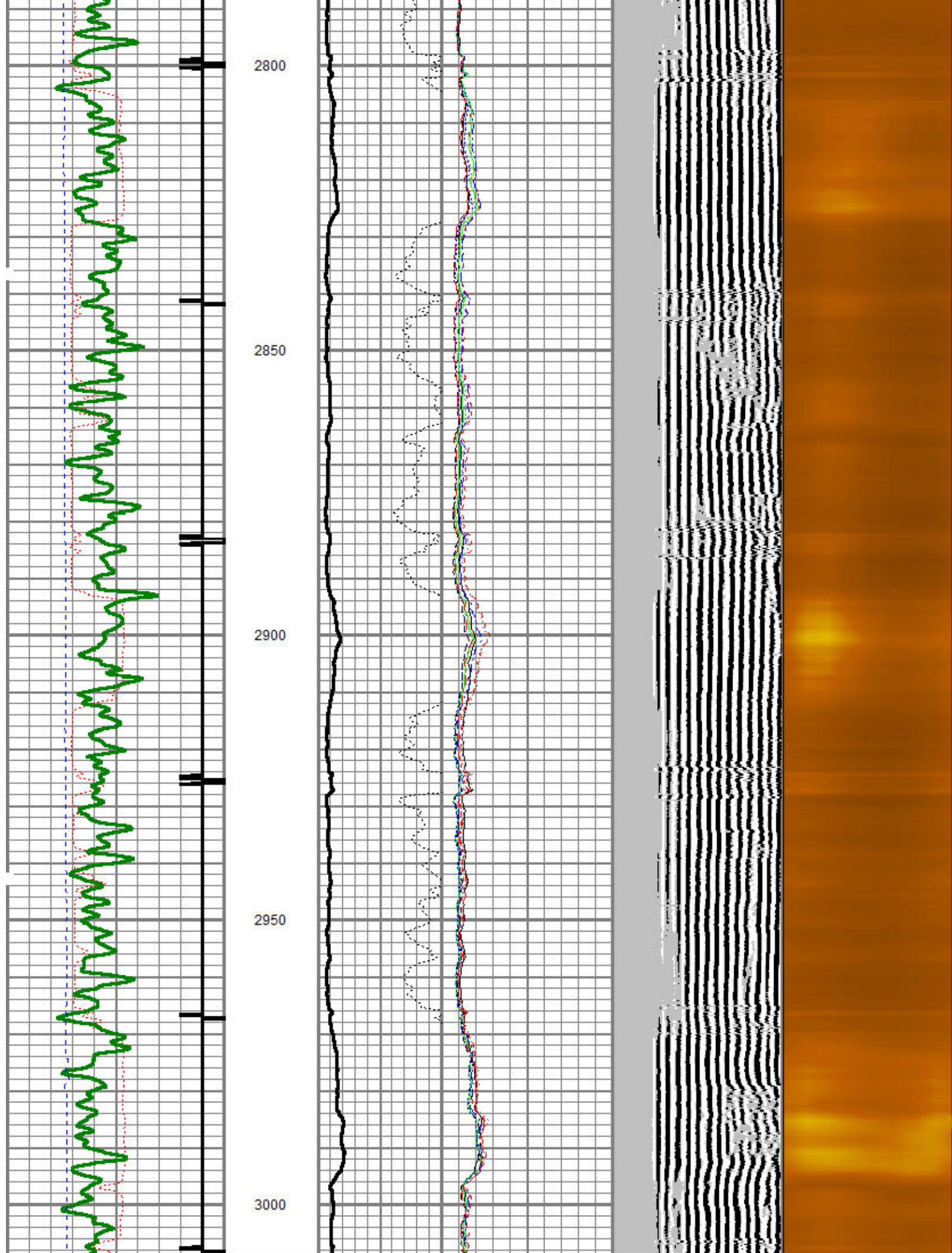


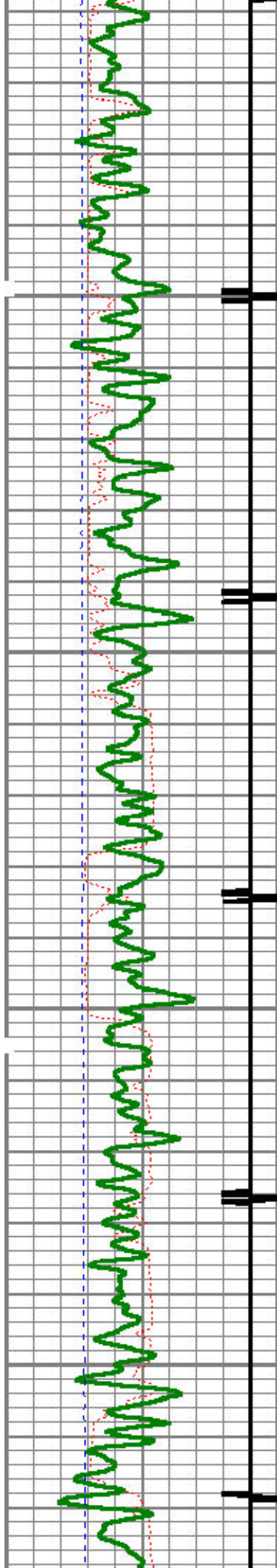










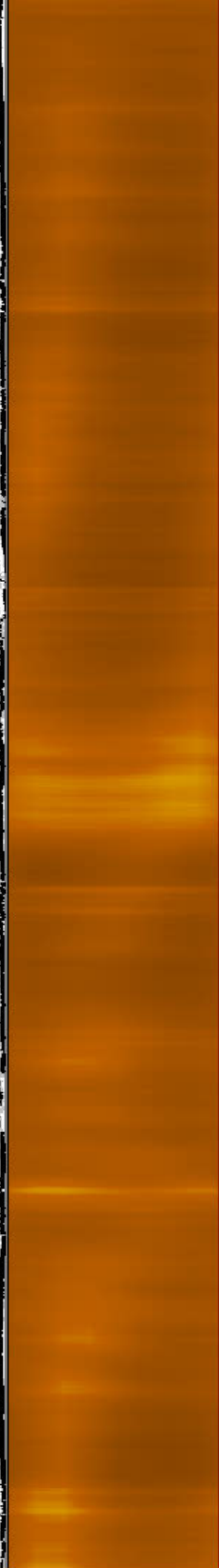
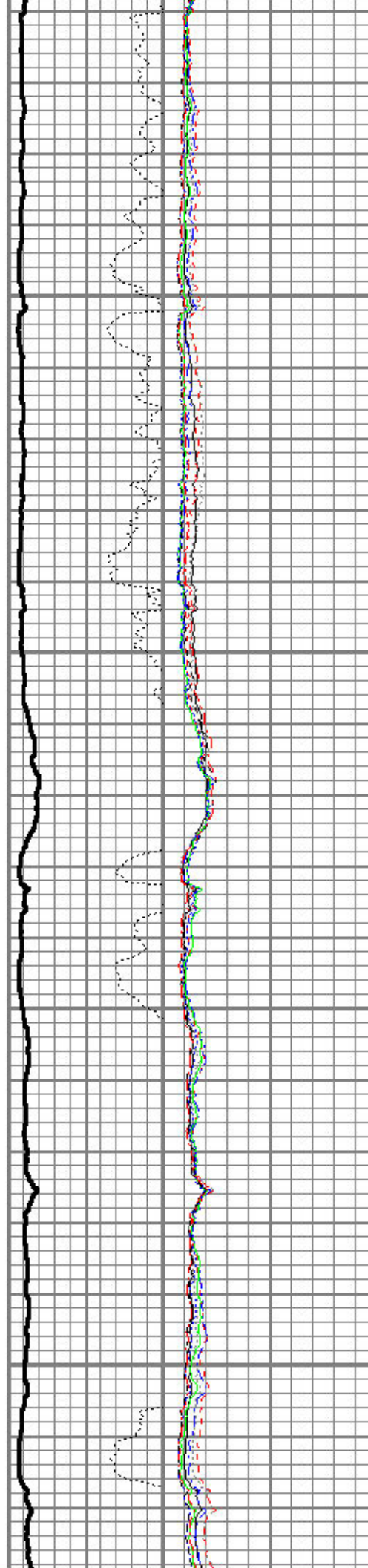


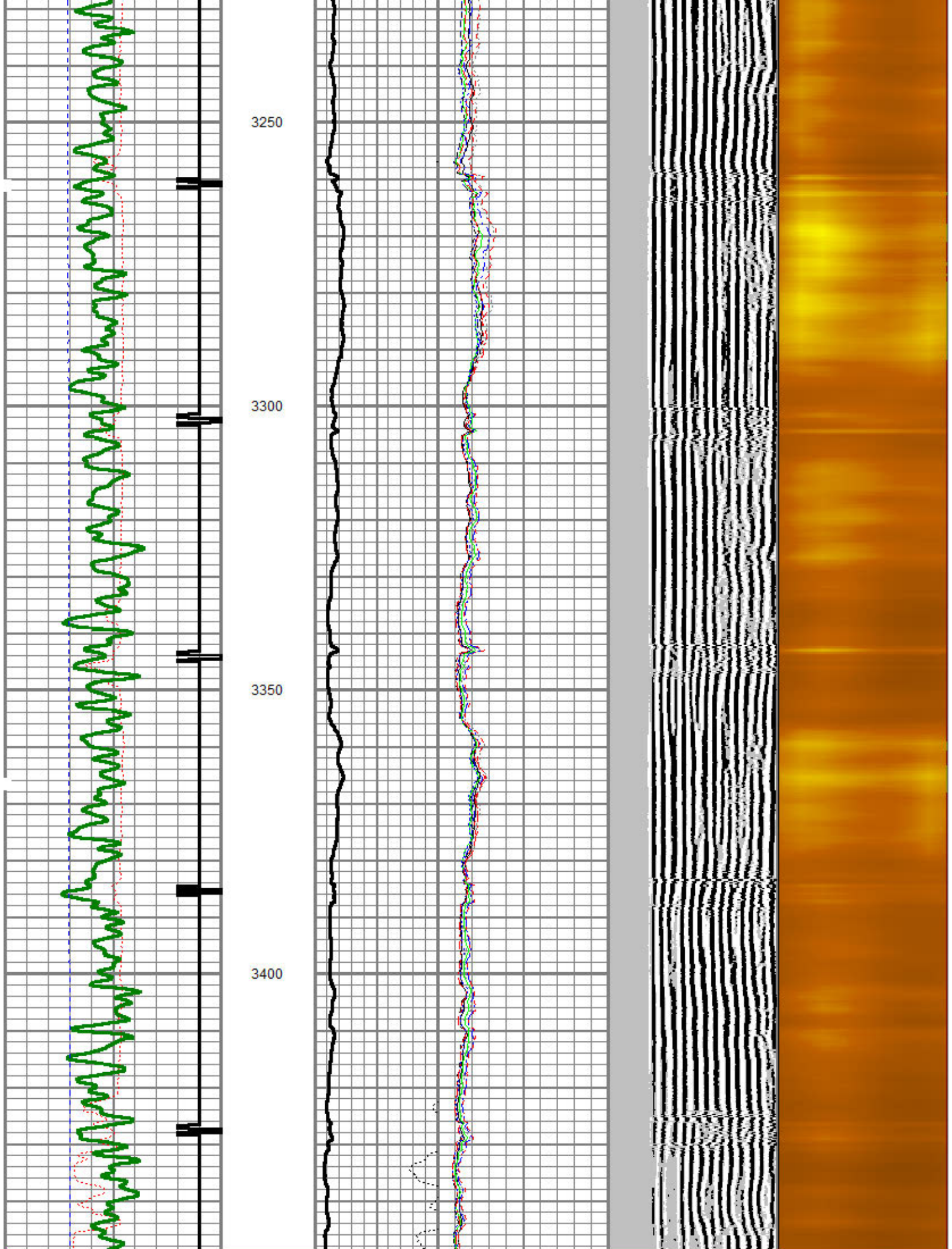
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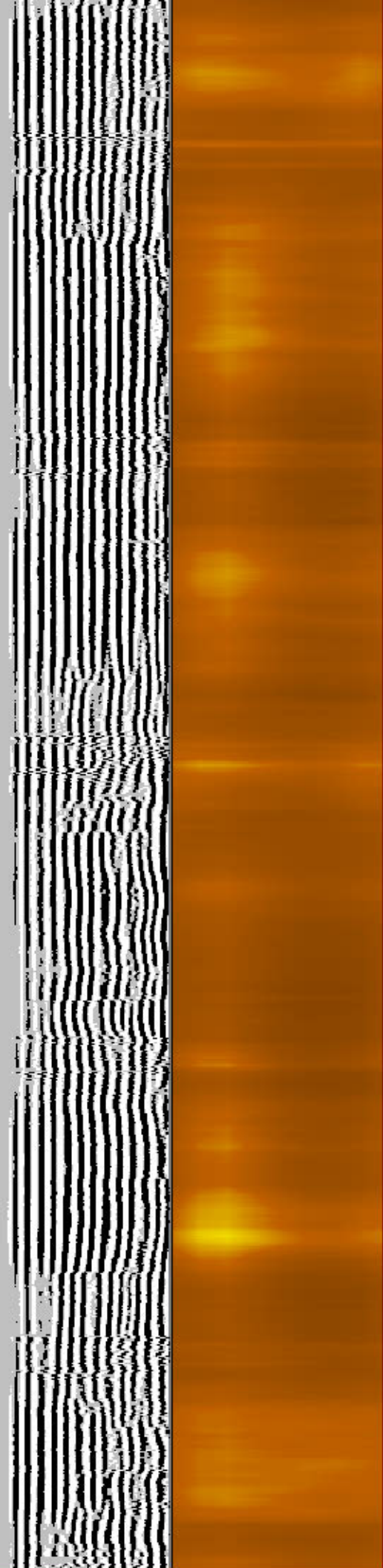
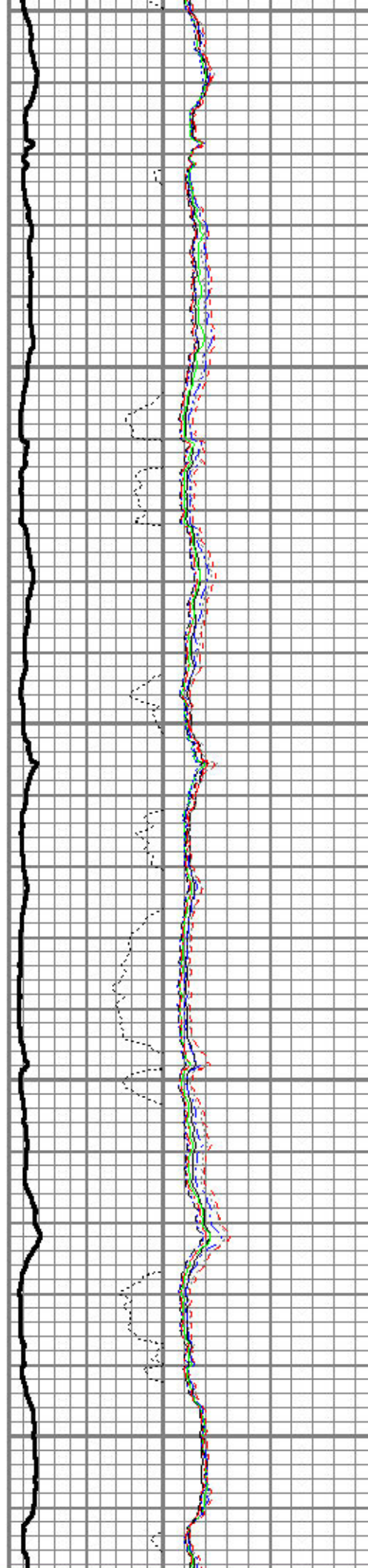
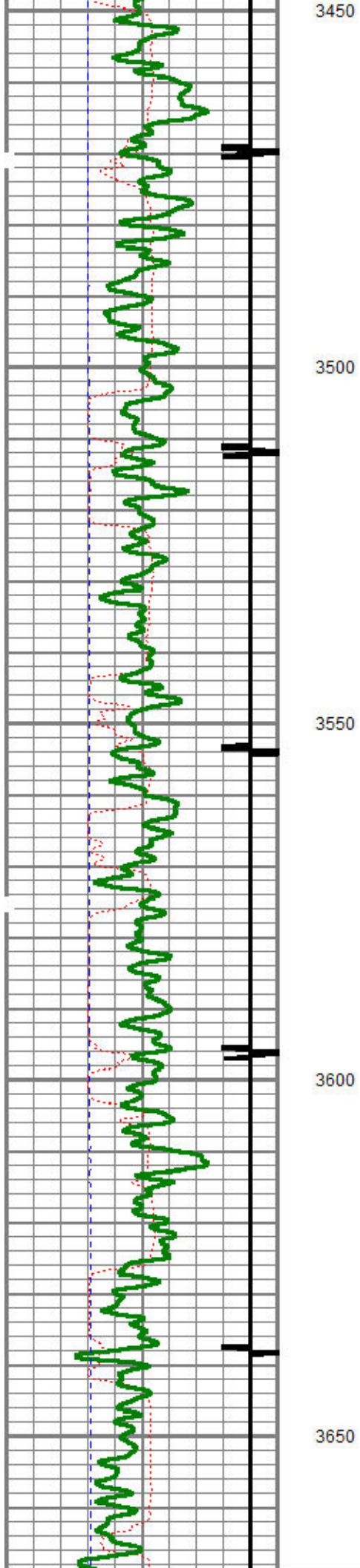
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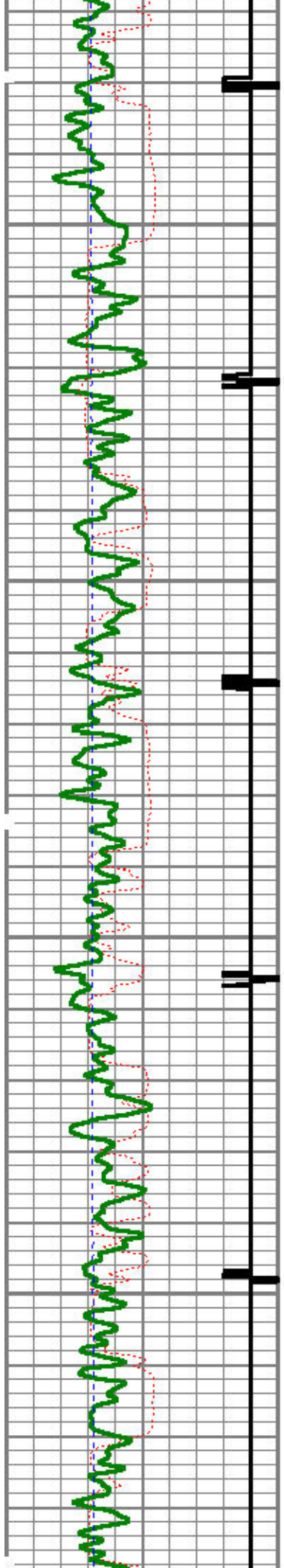
3150

3200







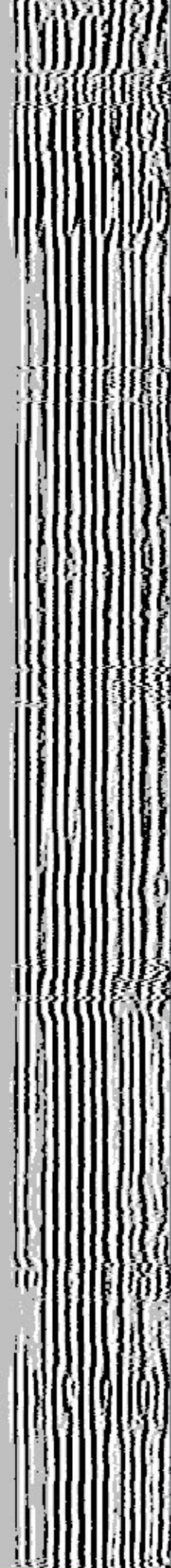
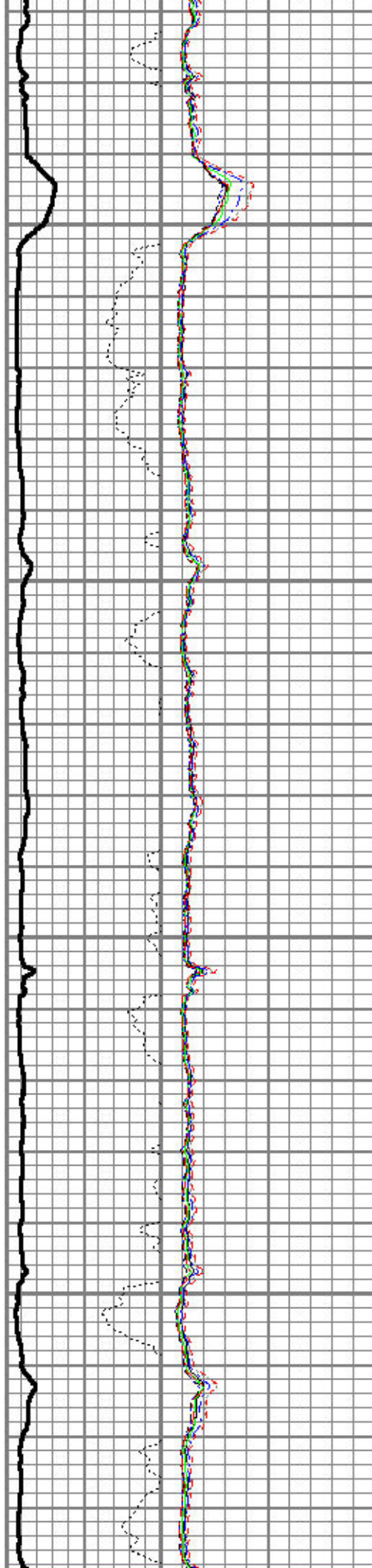


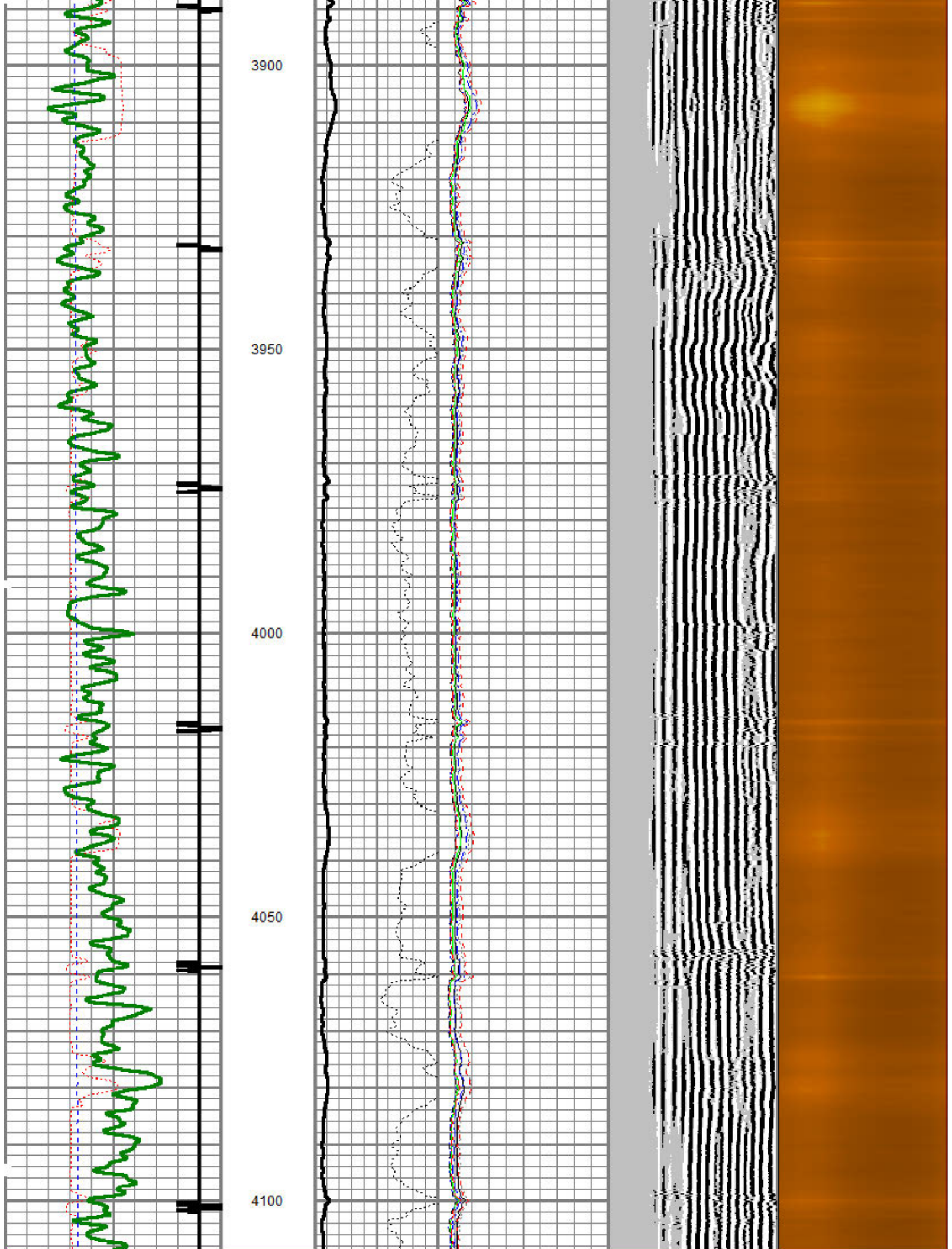
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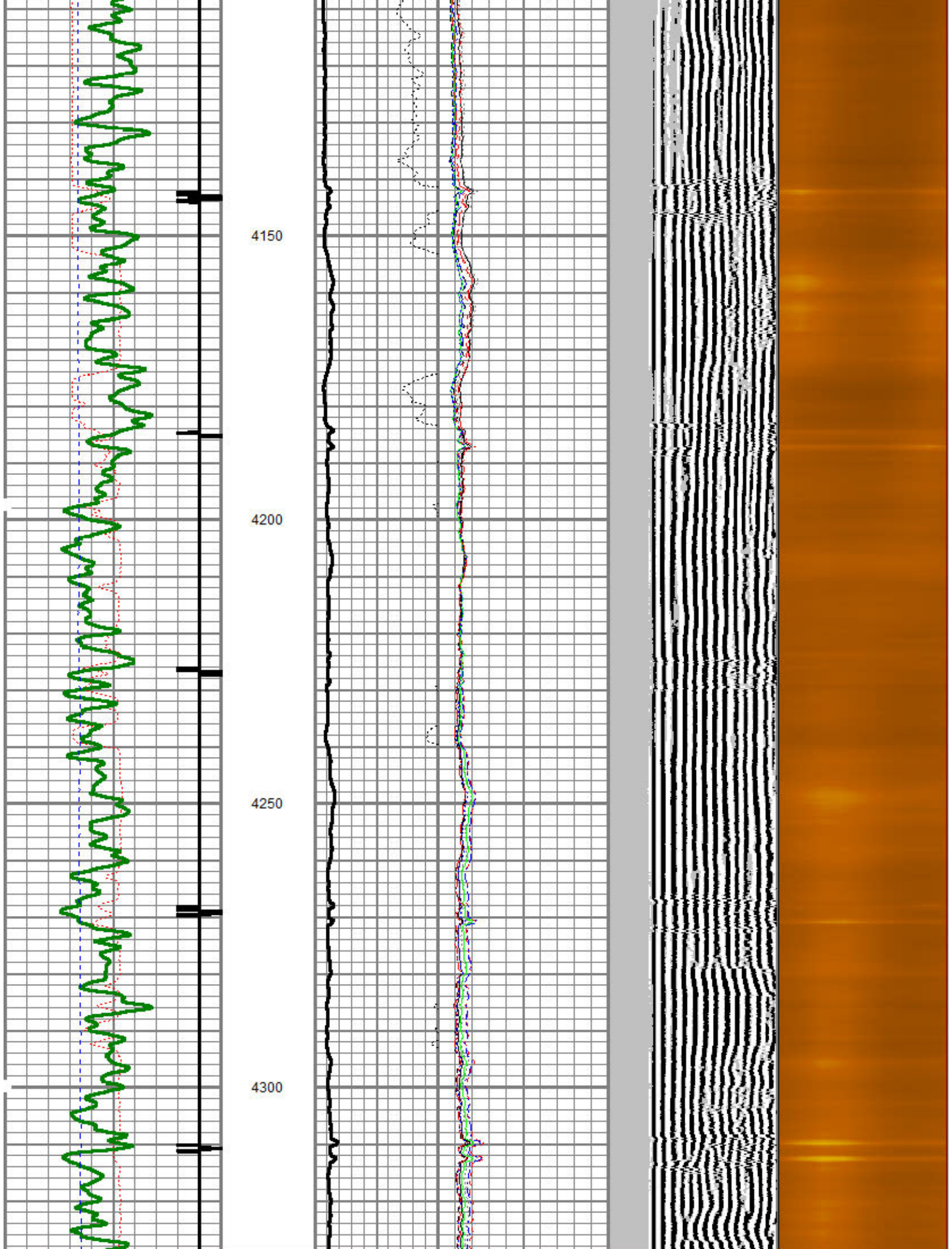
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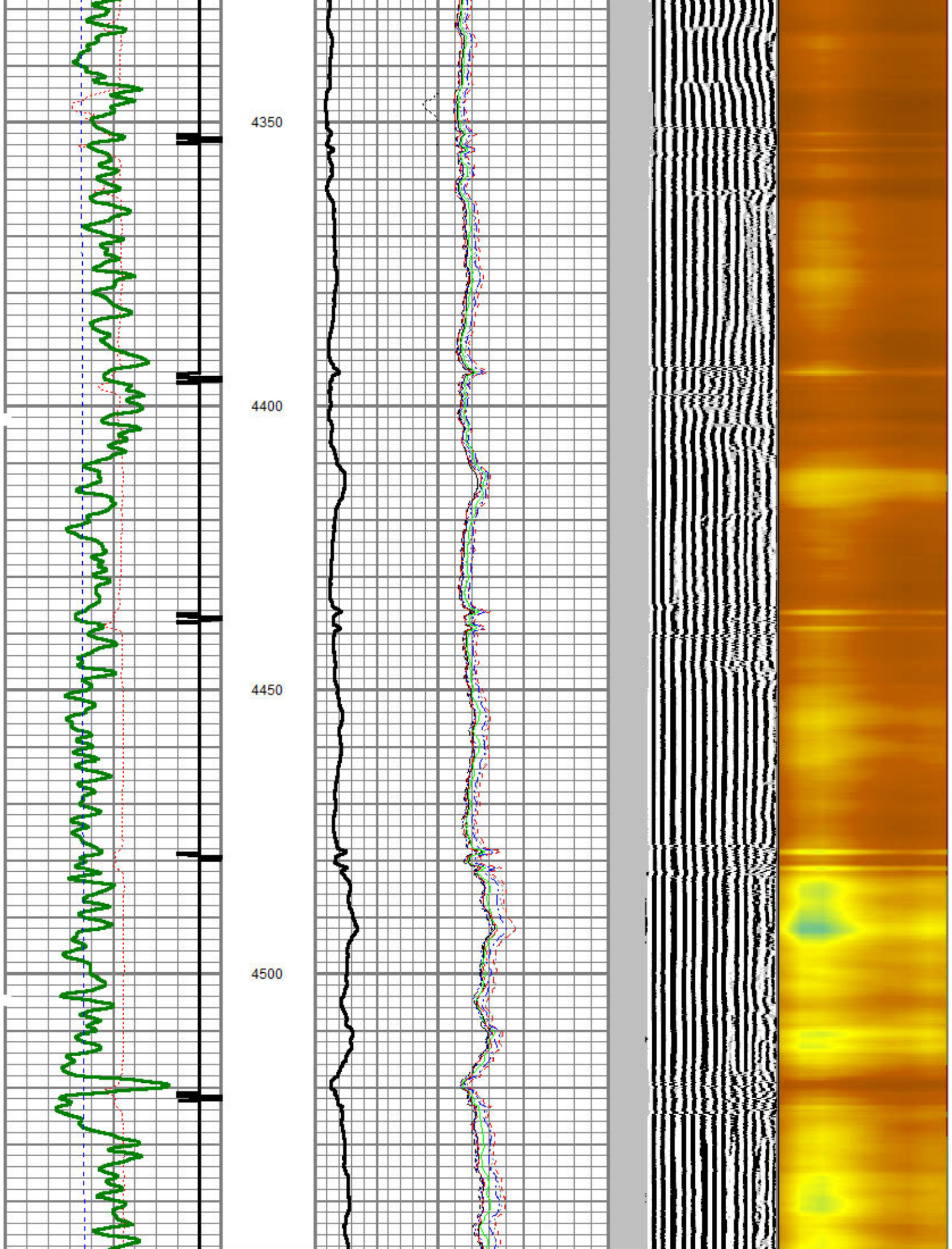
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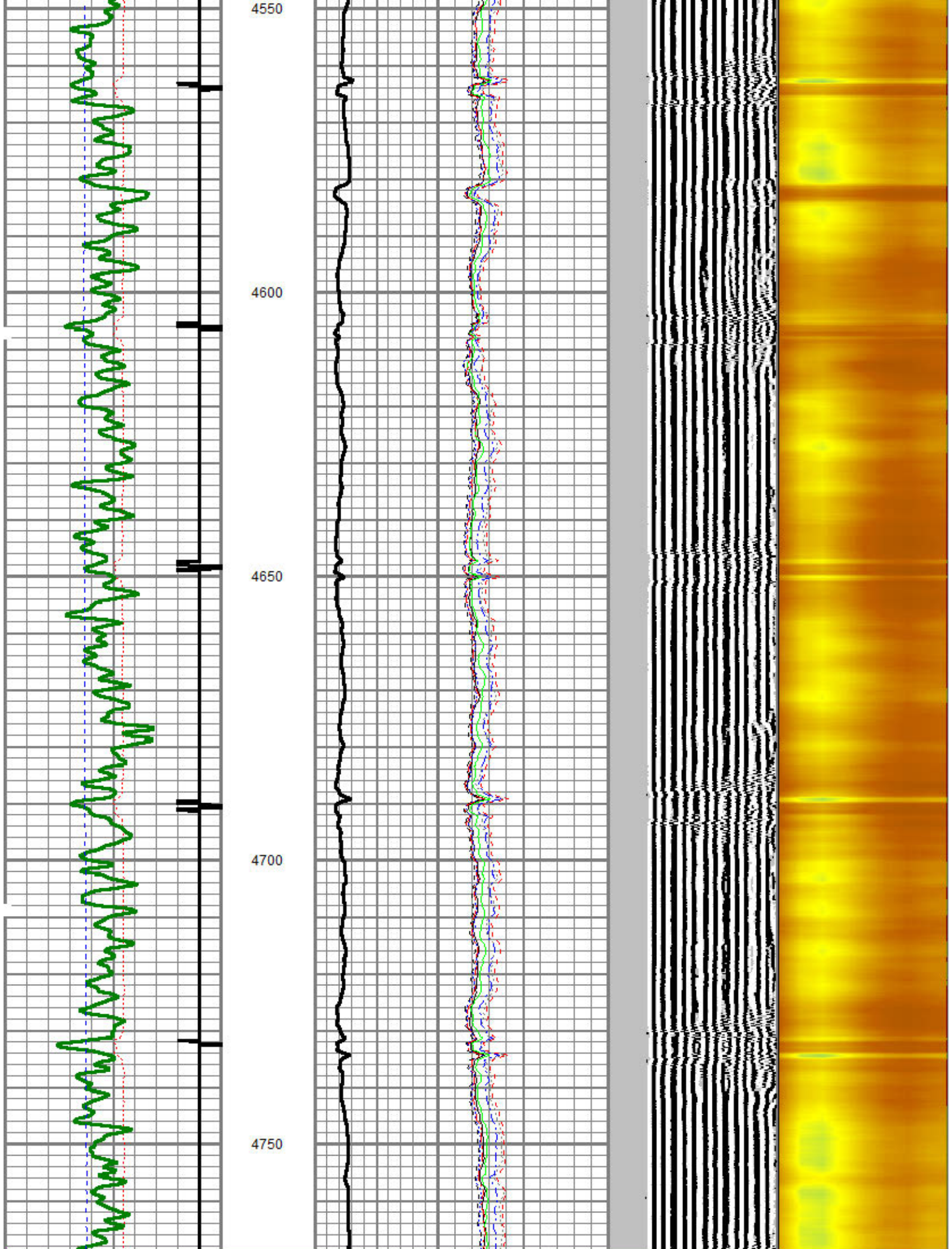
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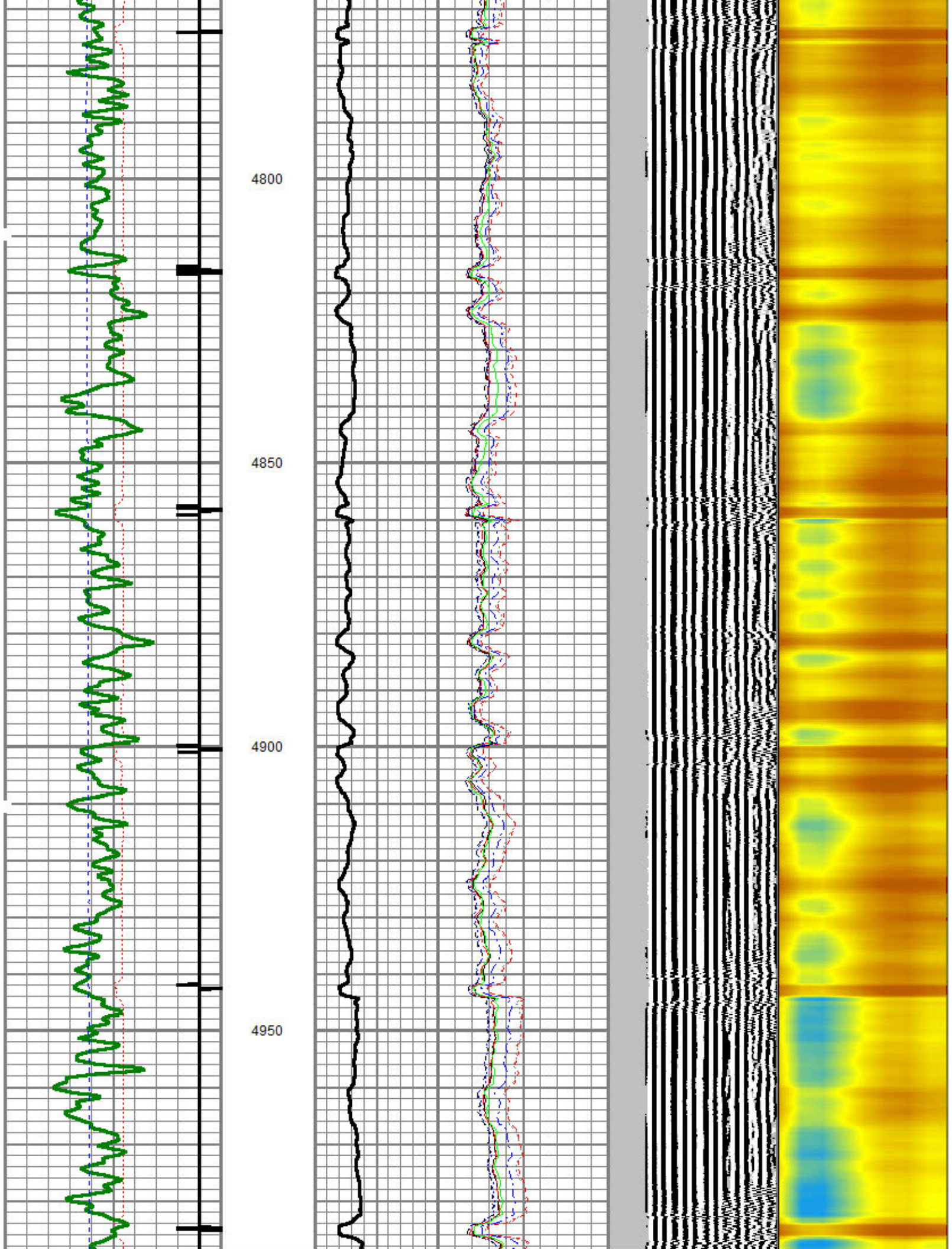


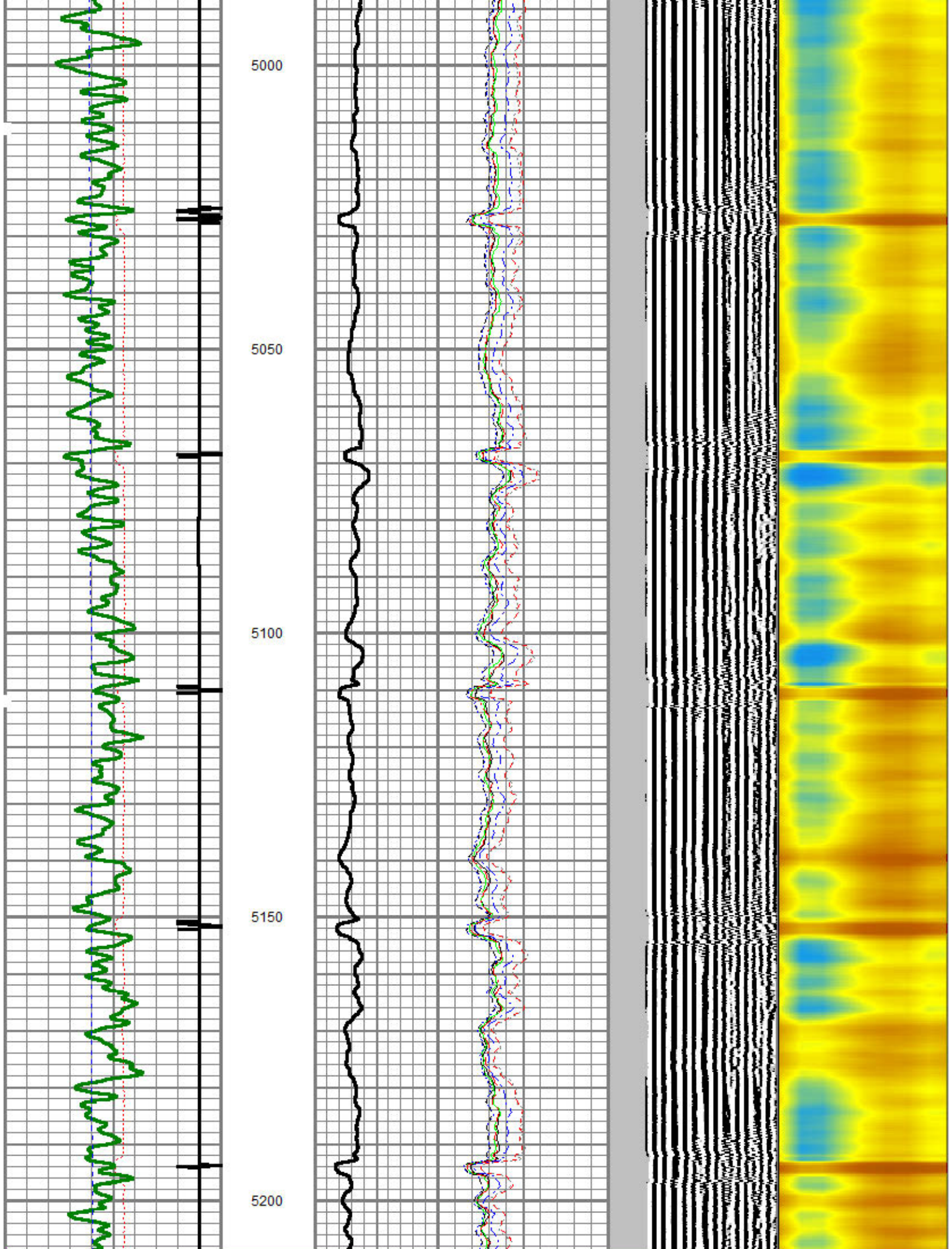


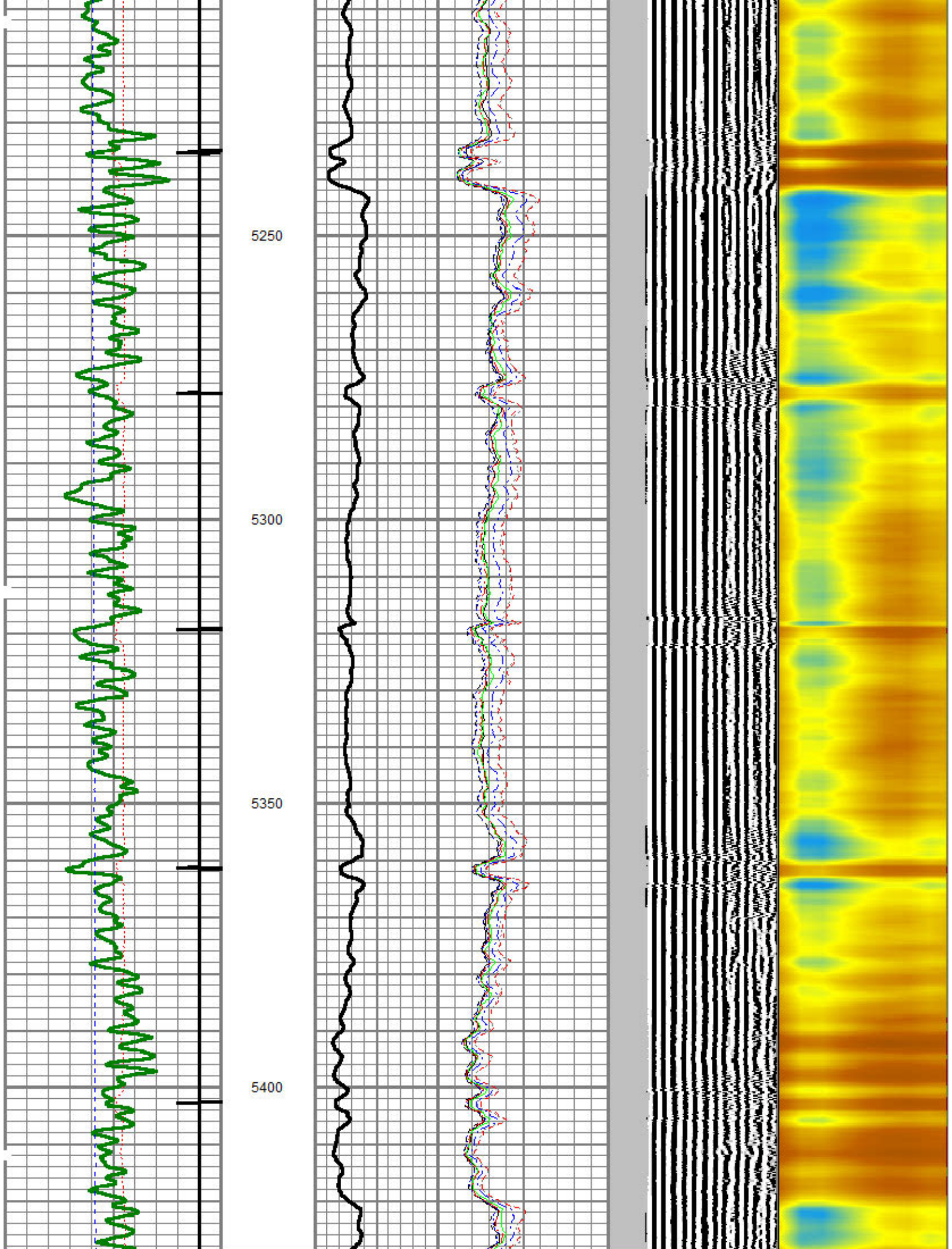


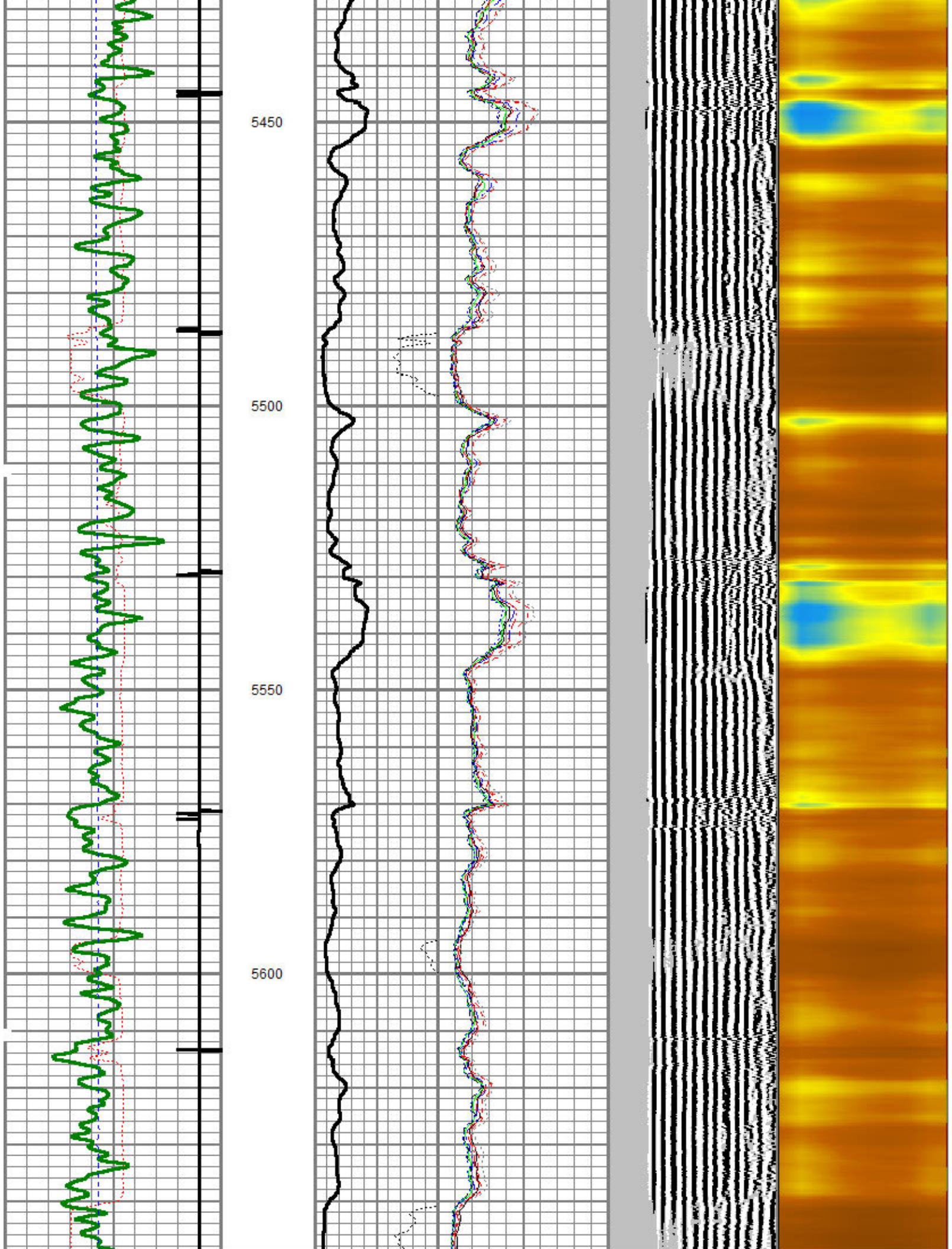


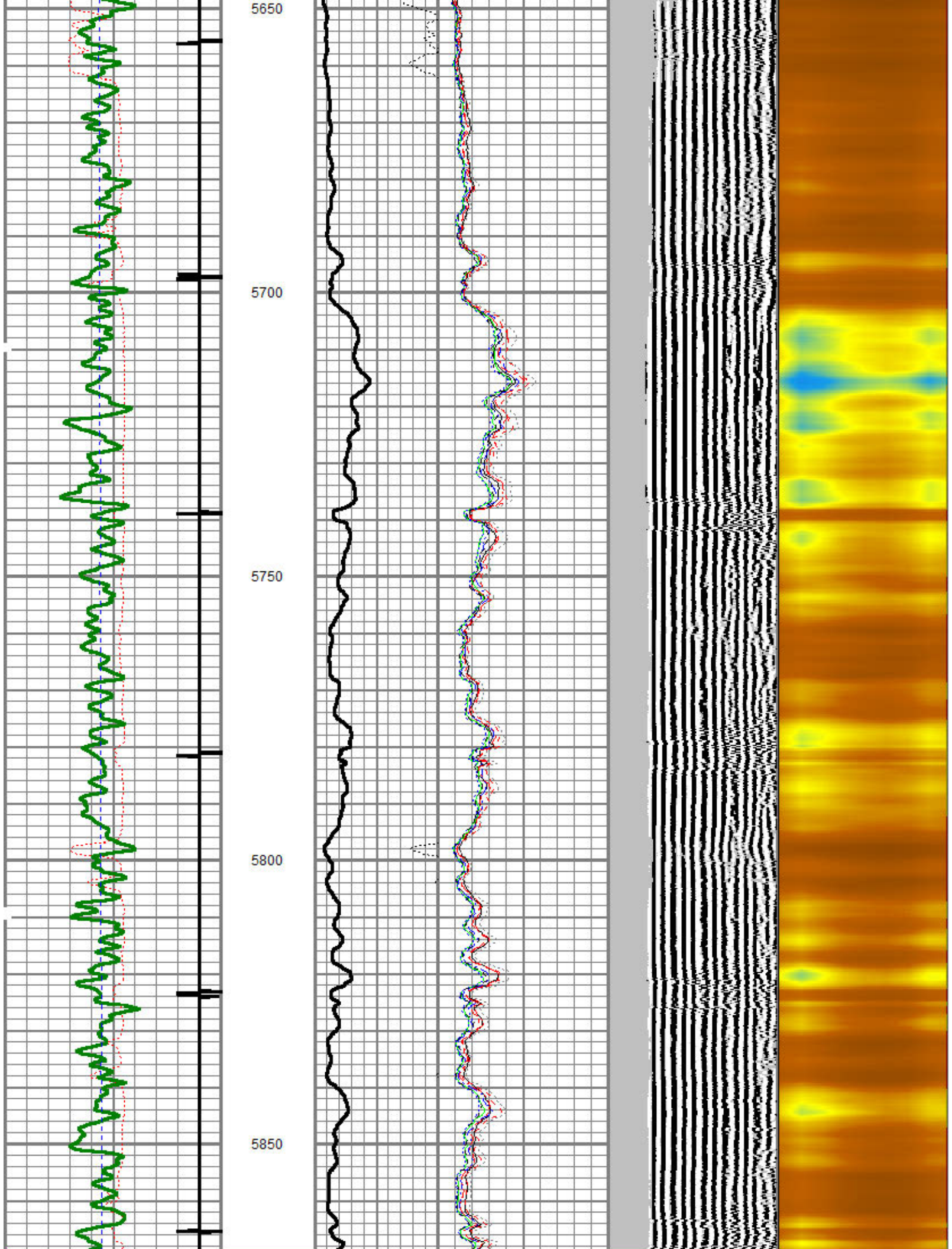


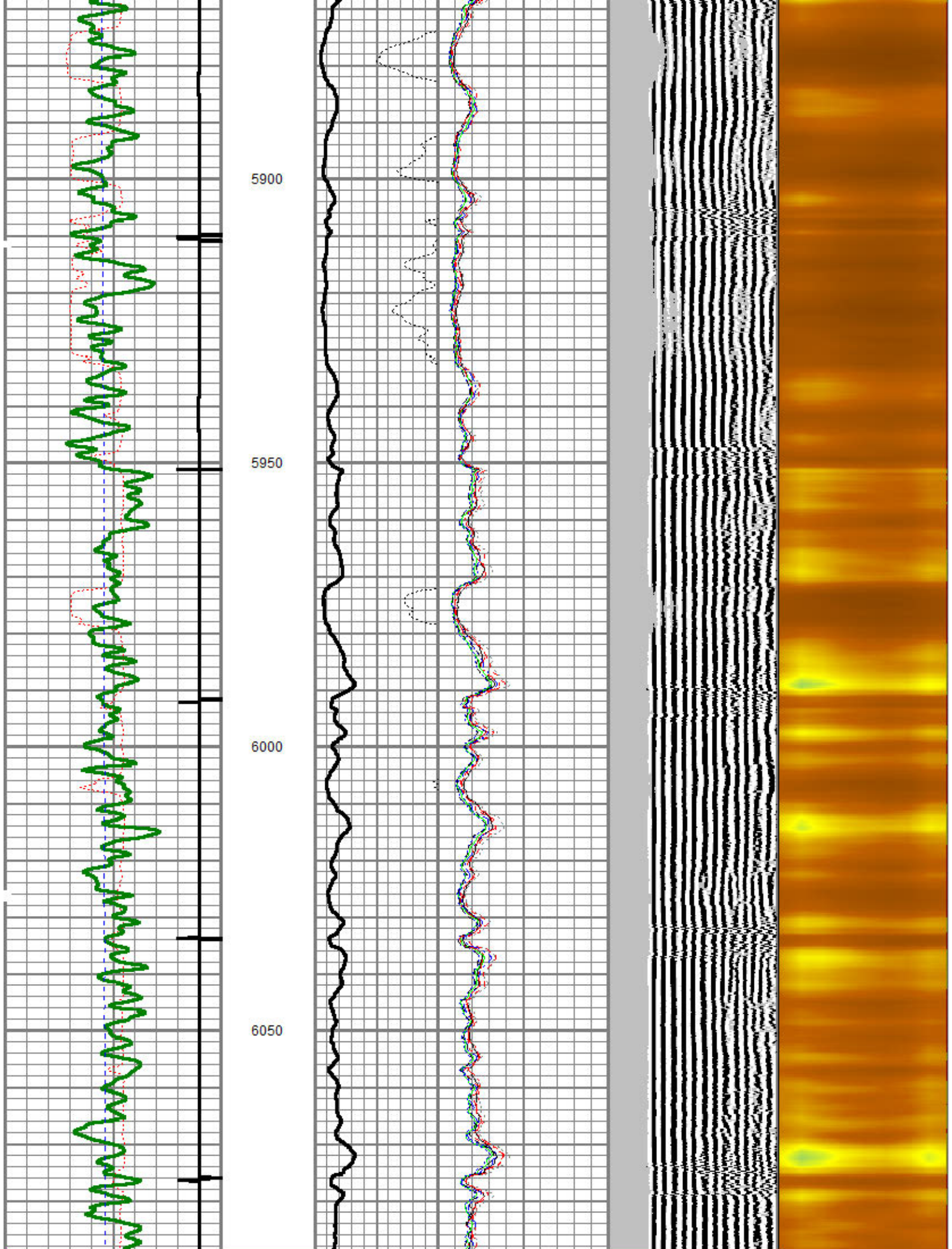


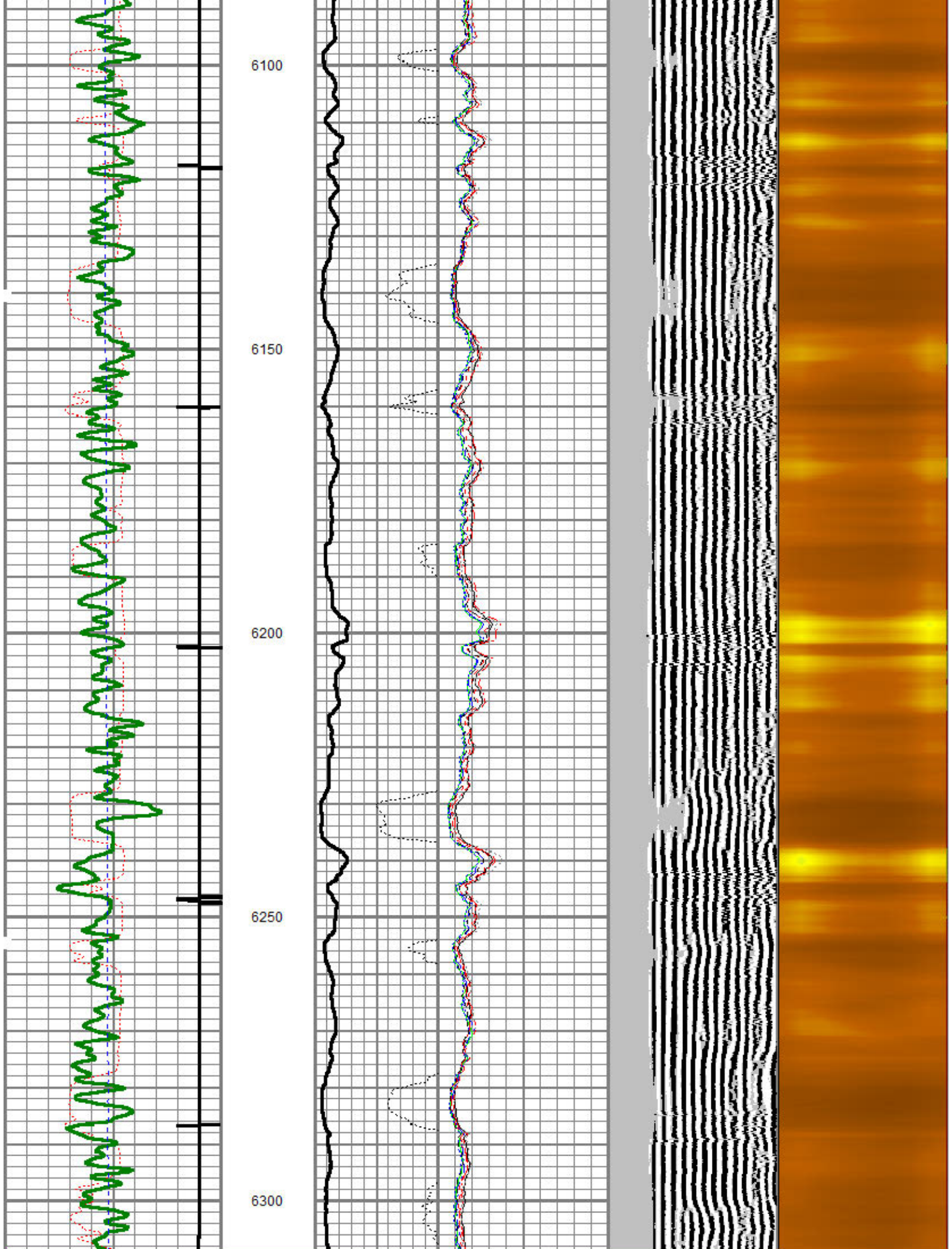


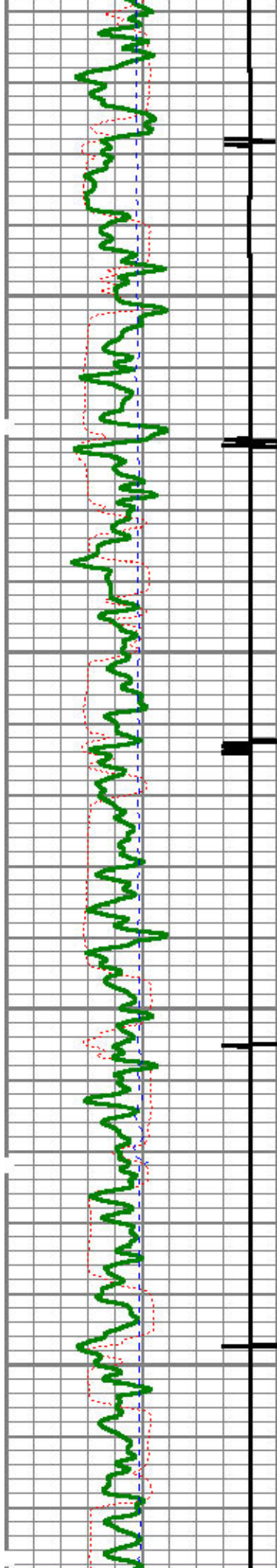










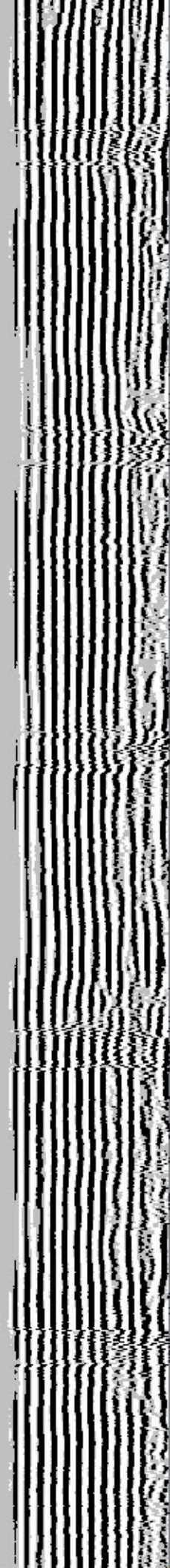
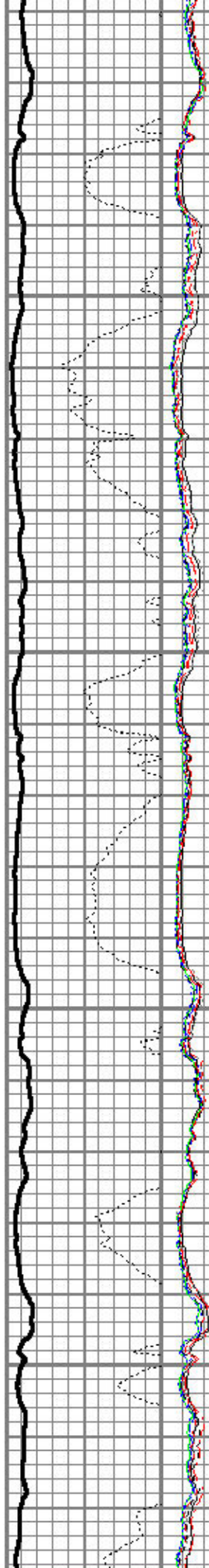


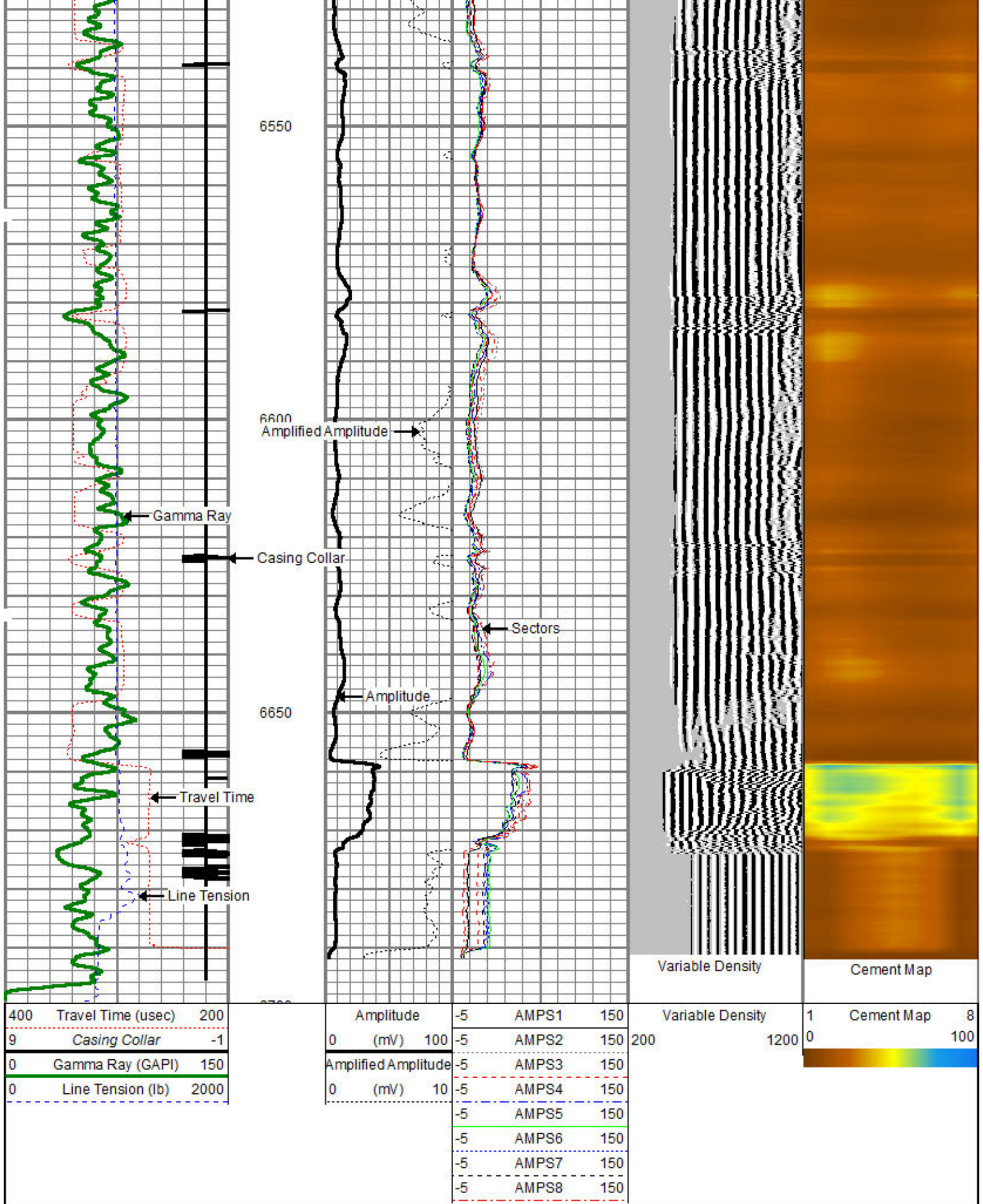
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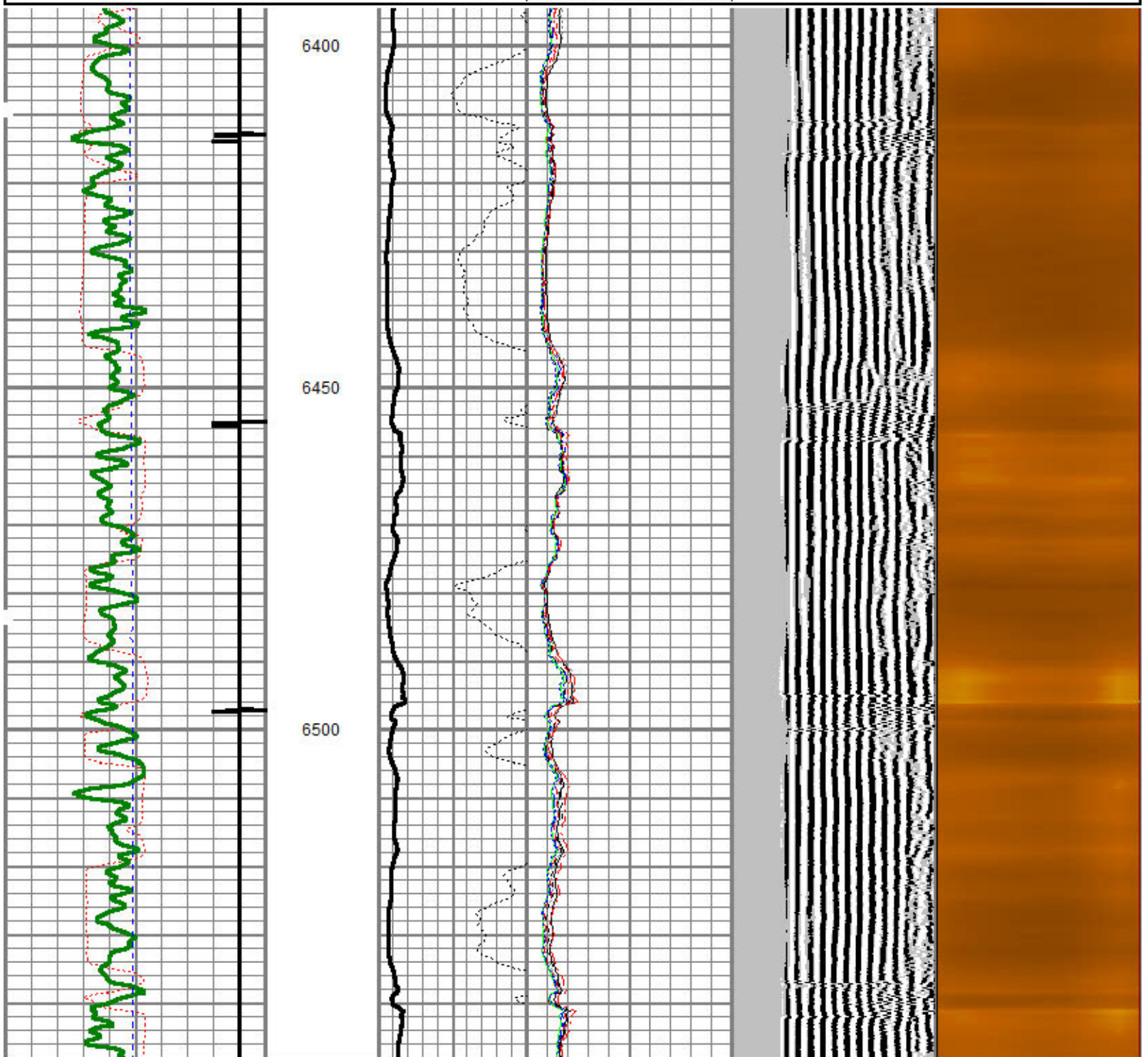
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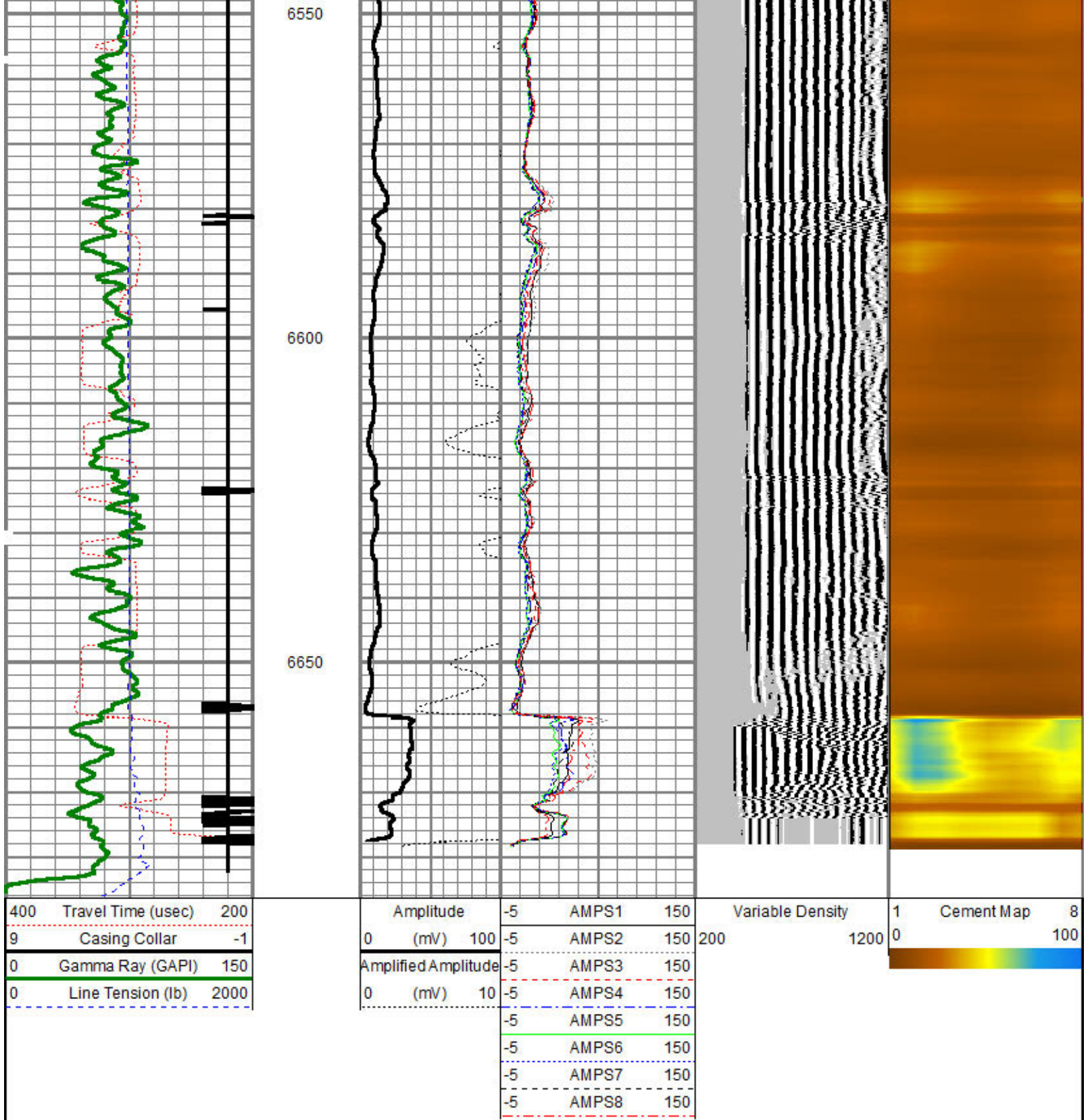




Database File: bayswater matrix I-29hc.db
 Dataset Pathname: pass4
 Presentation Format: sclb03
 Dataset Creation: Tue Mar 24 17:08:57 2015 by Log 0
 Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200	Amplitude	-5	AMPS1	150	Variable Density	1	Cement Map	8	
9	Casing Collar	-1	0 (mV) 100	-5	AMPS2	150		200	1200	0	100
0	Gamma Ray (GAPI)	150	Amplified Amplitude	-5	AMPS3	150					
0	Line Tension (lb)	2000	0 (mV) 10	-5	AMPS4	150					
				-5	AMPS5	150					
				-5	AMPS6	150					
				-5	AMPS7	150					
				-5	AMPS8	150					





Calibration Report

Database File: bayswater matrix I-29hc.db
 Dataset Pathname: pass6
 Dataset Creation: Tue Mar 24 17:15:50 2015 by Log 0

Gamma Ray Calibration Report

Serial Number: 110109-Dig
 Tool Model: Probe275
 Performed: Mon Mar 09 13:54:32 2015

Calibrator Value: 1022.0 GAPI

Background Reading:	99.1	cps
Calibrator Reading:	1632.9	cps
Sensitivity:	0.6663	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	111107
Tool Model:	Probe
Calibration Casing Diameter:	5.500 in
Calibration Depth:	-0.063 ft

Master Calibration, performed Tue Mar 24 08:21:36 2015:


	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.022	0.723	1.000	71.921	95.201	3.063
CAL	-0.025	0.734				
5'	-0.021	0.669	1.000	71.921	102.709	3.174
SUM						
S1	-0.091	0.735	0.000	100.000	100.130	4.971
S2	-0.016	0.729	0.000	100.000	134.211	2.200
S3	-0.023	0.714	0.000	100.000	135.690	3.107
S4	-0.023	0.736	0.000	100.000	131.675	3.025
S5	-0.024	0.736	0.000	100.000	131.713	3.098
S6	-0.023	0.725	0.000	100.000	133.712	3.072
S7	-0.023	0.699	0.000	100.000	138.530	3.135
S8	-0.022	0.708	0.000	100.000	136.974	3.073


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	-0.025	0.734	1.000	0.000

Air Zero Calibration, performed Fri Aug 15 12:15:10 2014:

	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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Titan Cable_head	1.00	1.44	10.00

WVF3FT	9.12		RBT-Probe (111107) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	9.12					
WVFS1	9.12					
WVFS2	9.12					
WVFS3	9.12					
WVFS4	9.12					
WVFS5	9.12					
WVFS6	9.12					
WVFS7	9.12					
WVFS8	9.12					
WVF5FT	8.03					
CCL	3.88					
GR	2.54		GR-Probe275 (110109-Dig) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
Dataset: bayswater matrix l-29hc.db: field/well/run1/pass6						
Total Length: 14.70 ft						
Total Weight: 157.00 lb						
O.D. 3.71 in						