



Sector Bond Gamma Ray Collar Correlation Log

Company Noble Energy									
Well ROTHE STATE B 36-7									
Field Wattenberg									
County Weld									
State Colorado									
County Weld State Colorado									
Location: API #: 05-123-16704									
SEC 36 TWP 15N RGE 64W SW/4 NE/4									
Permanent Datum Ground Level Elevation 4599									
Log Measured From Kelly Bushing									
Drilling Measured From Kelly Bushing									
Elevation K.B. 4609 D.F. 4608 G.L. 4599									
Date 30 July 2020									
Run Number One									
Depth Driller 6822									
Depth Logger 5401									
Bottom Logged Interval 5400									
Top Log Interval Surface									
Casing Size 2 7/8									
Type Fluid Water									
Max. Recorded Temp. Not Recorded									
Estimated Cement Top ---									
Time Well Ready ROA									
Time Logger on Bottom 13:00									
Unit Number 200100									
Tool Size/ID Number 1 11/16 Probe									
Location Sterling									
Recorded By Scott Erb									
Witnessed By Tony Mathias									
Borehole Record									
Run Number Bit From To Size Weight From To									
Casing Record									
Surface String Size 8 5/8 Wgt/Ft 24 Top Surface Bottom 304									
Prot. String									
Production String 2 7/8 6.5 Surface Total Depth									
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

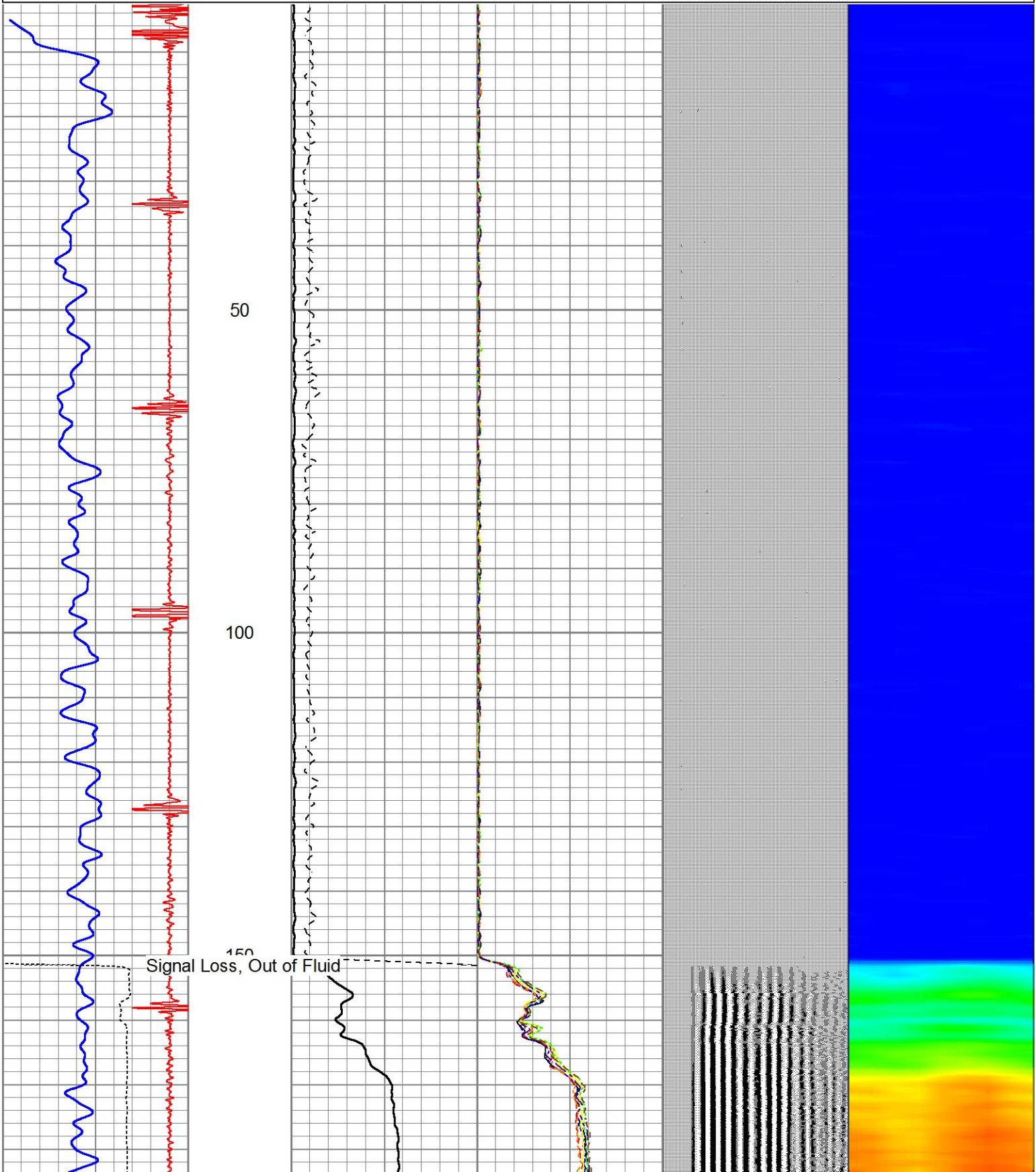
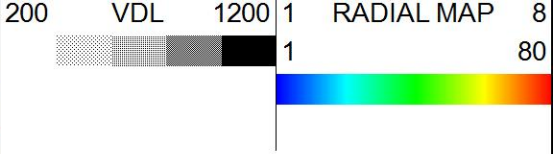
No log available for correlation

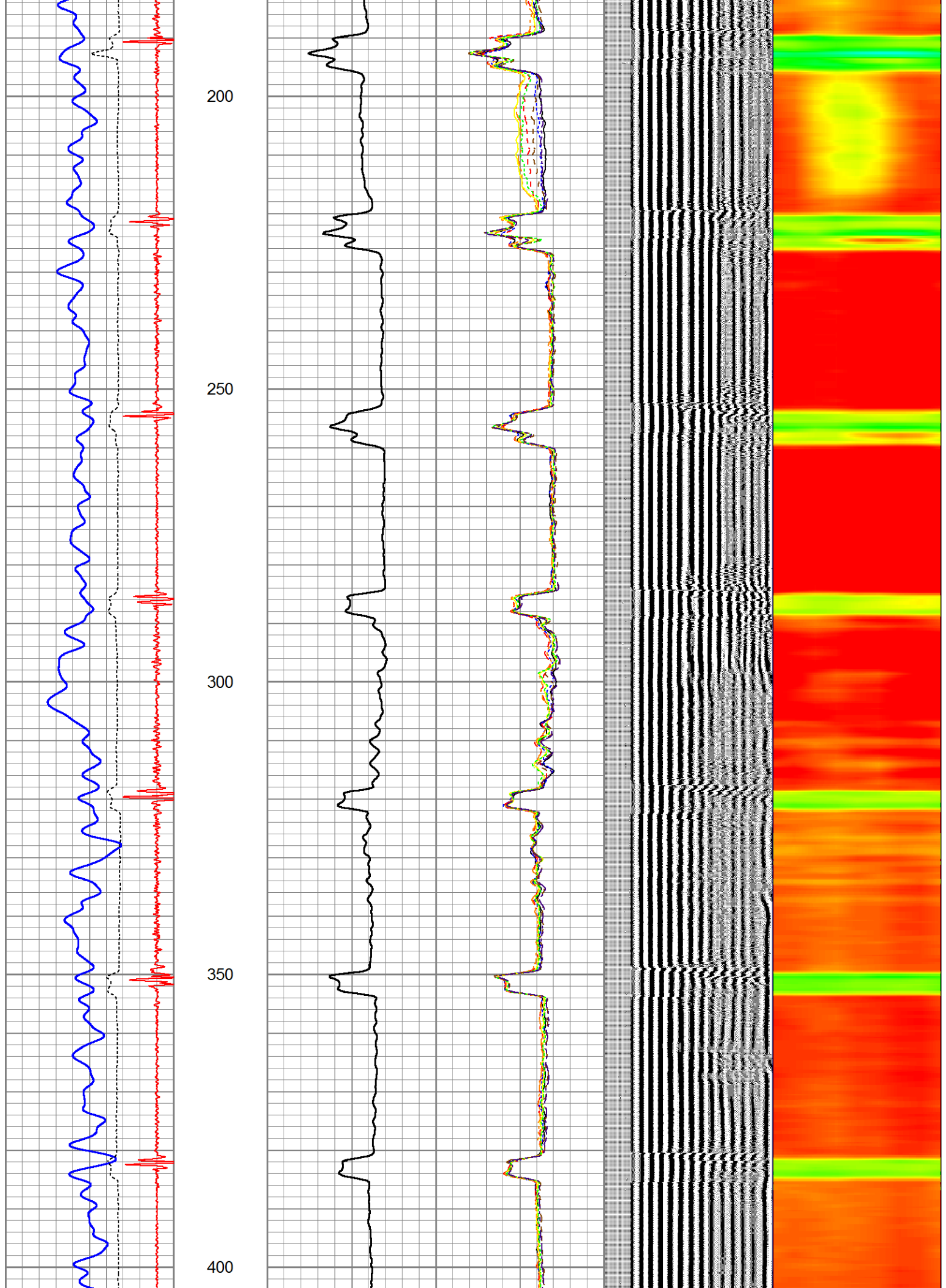
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Dataset Pathname	pass14
Presentation Format	zwag (2)
Dataset Creation	Thu Jul 30 13:12:10 2020
Charted by	Depth in Feet scaled 1:240

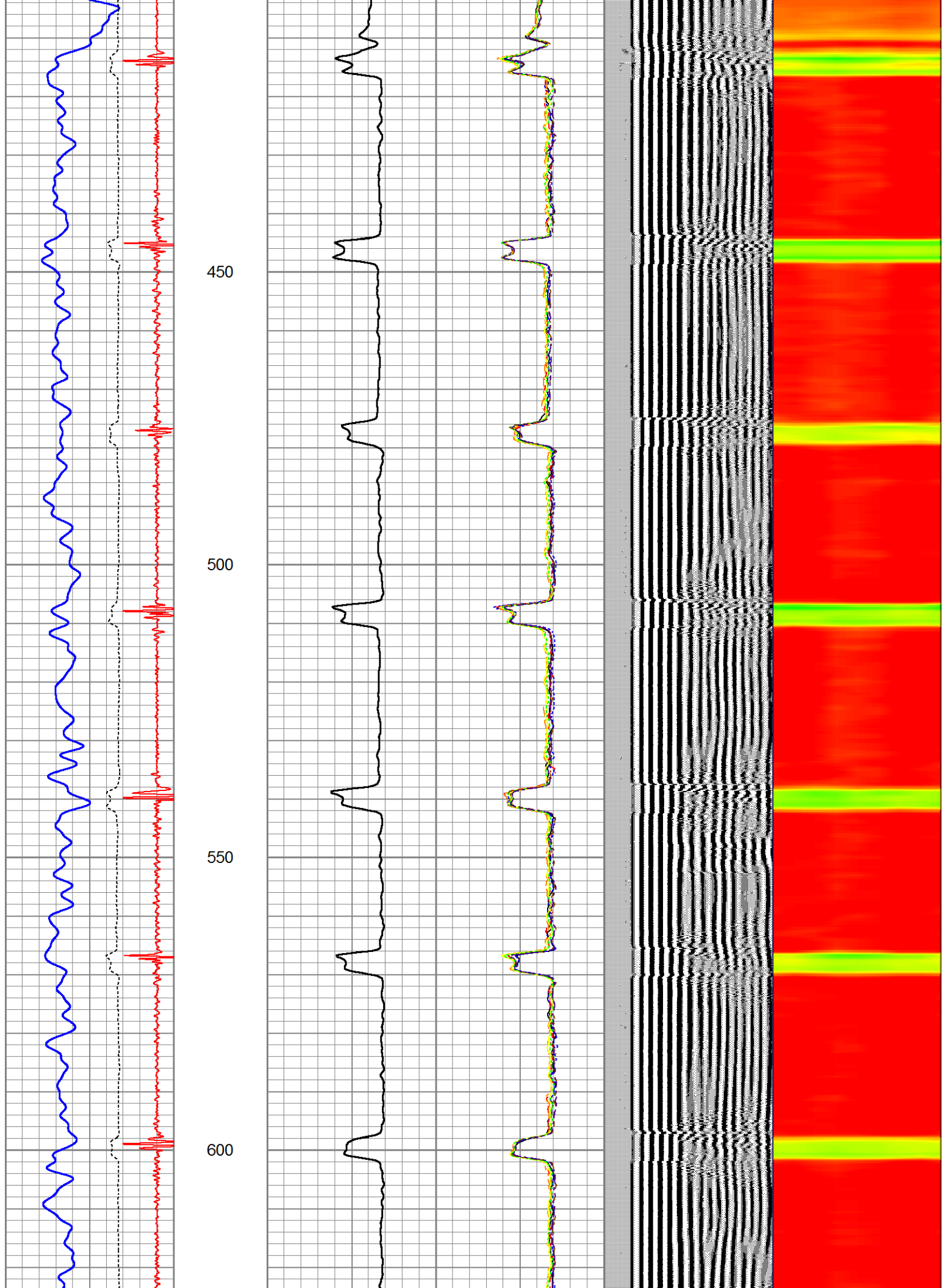
9	CCL\$1	-1
0	GR (GAPI)	150
300	TT3 (usec)	200

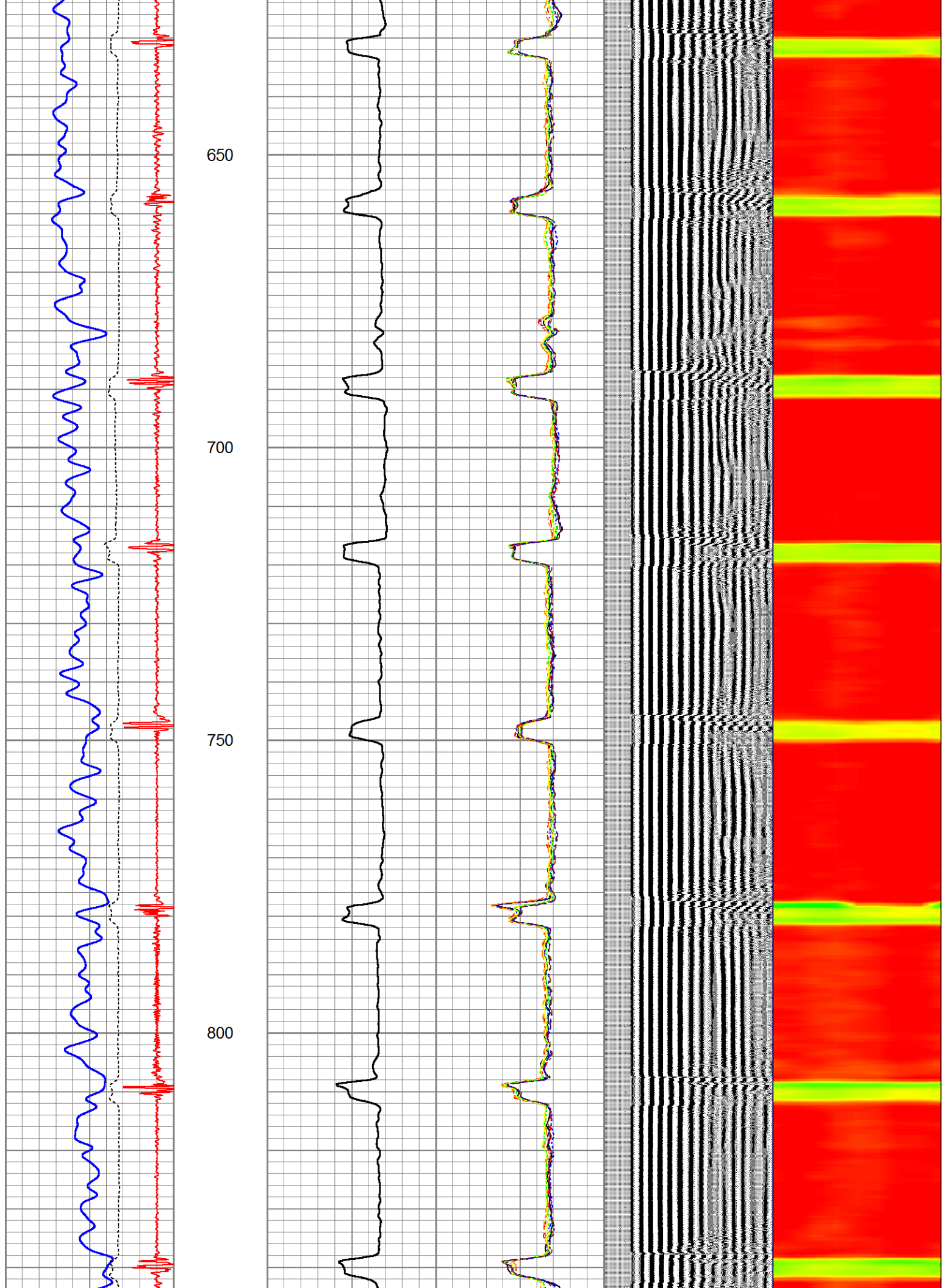
0	AMP (mV)	120
	AMPLIFIED AMP3	
0	(mV)	20

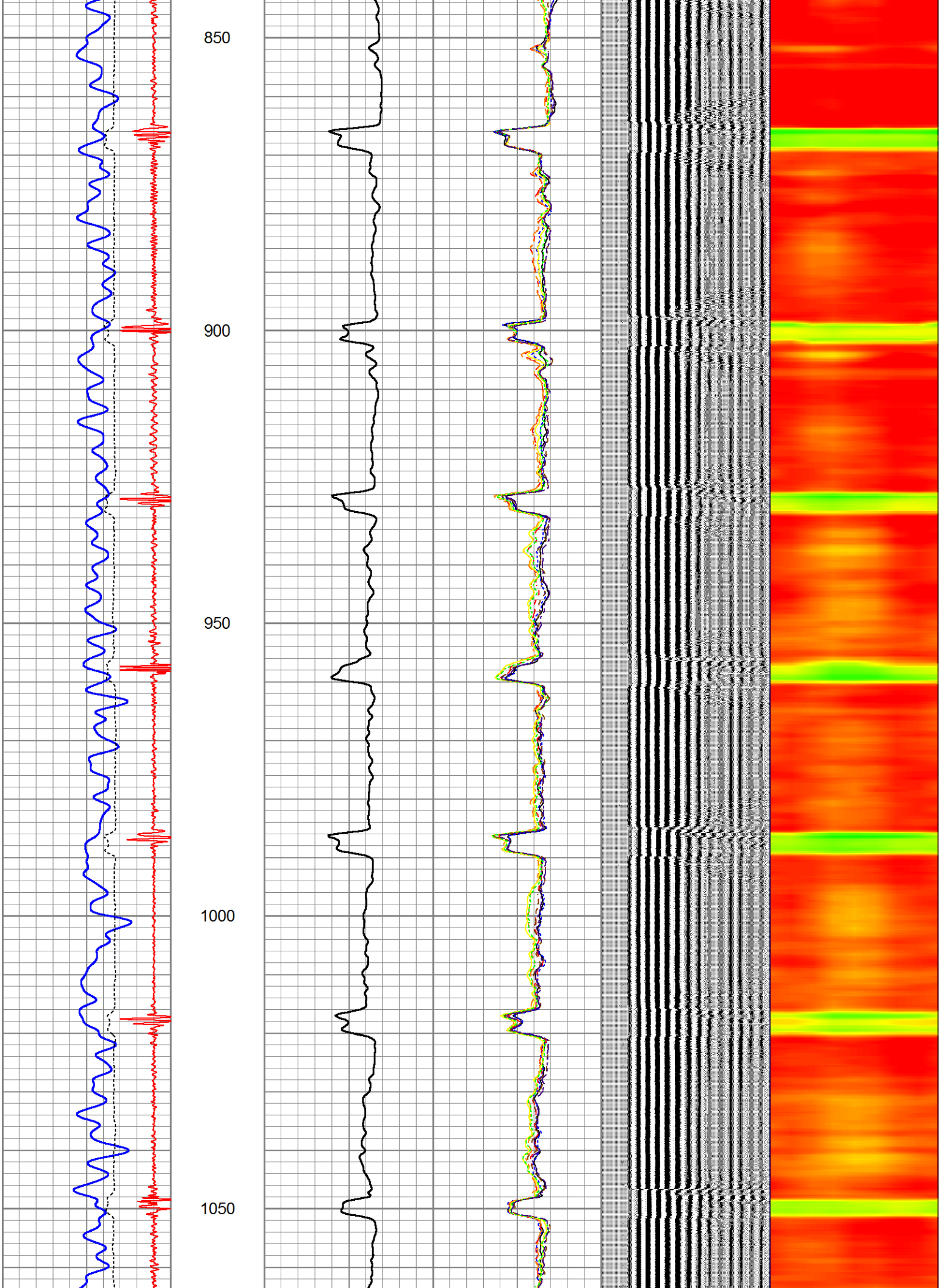
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0	AMPS2	120
0	AMPS3	120
0	AMPS4	120
0	AMPS5	120
0	AMPS6	120
0	AMPS7	120
0	AMPS8	120

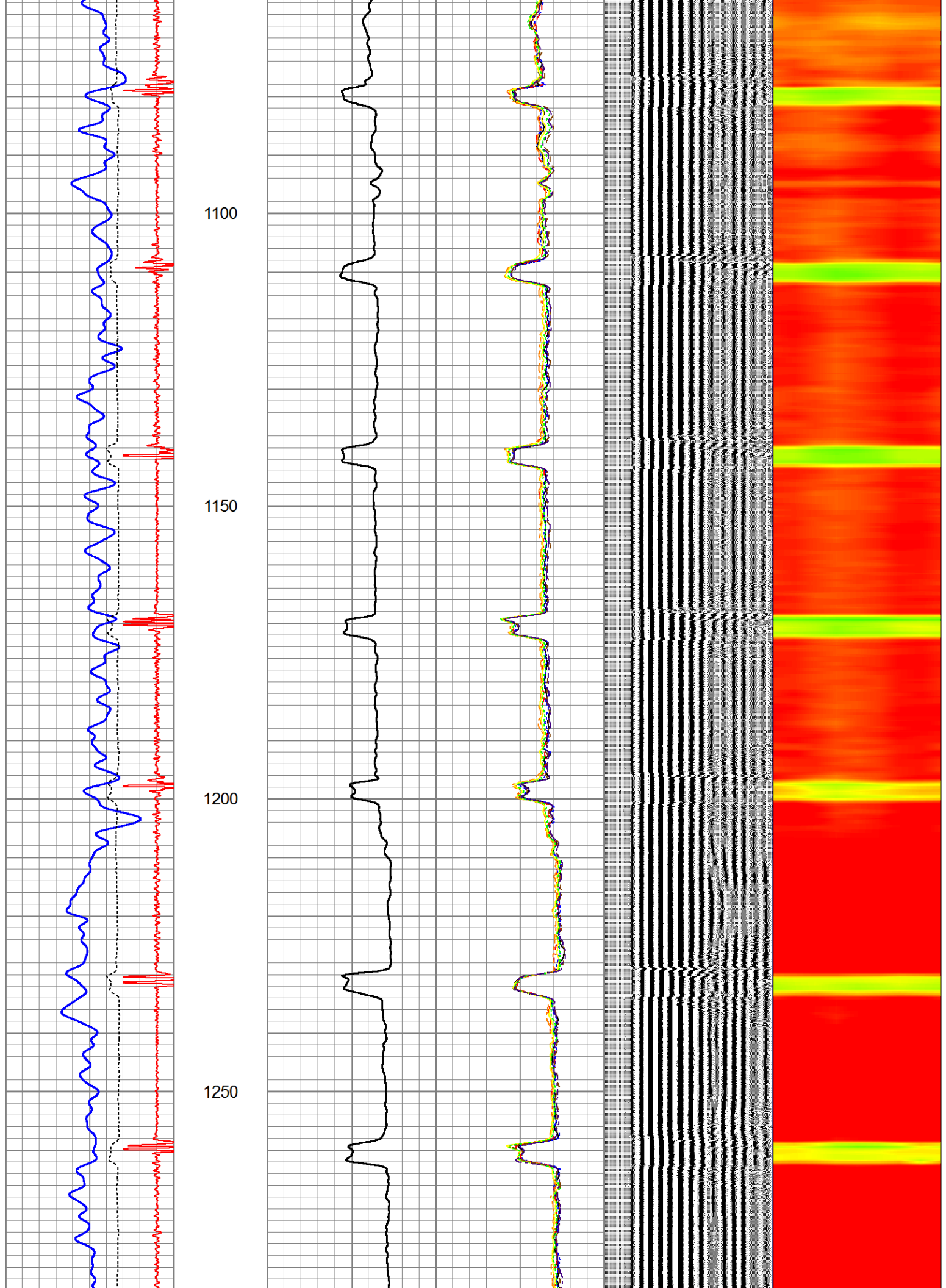


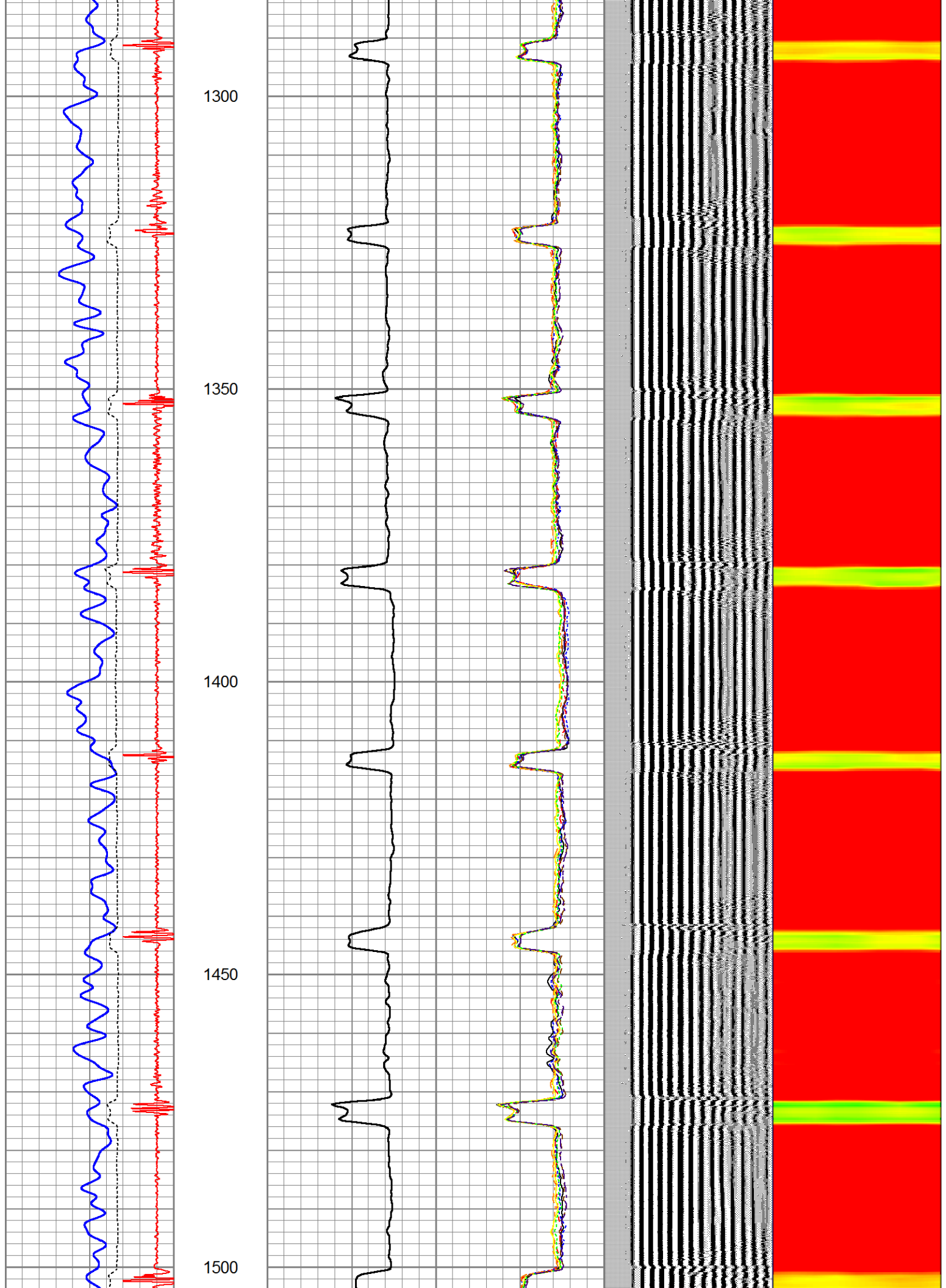


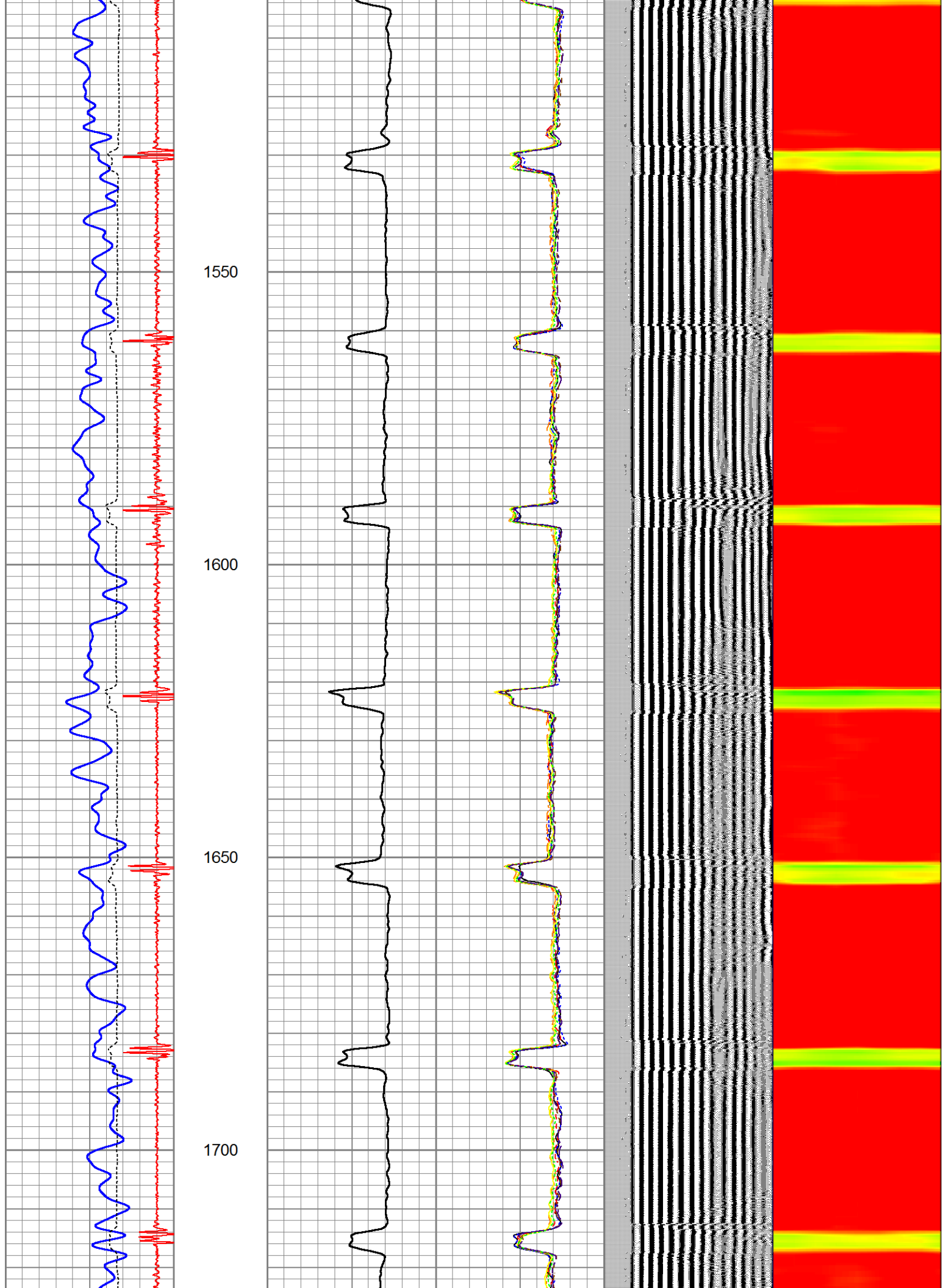


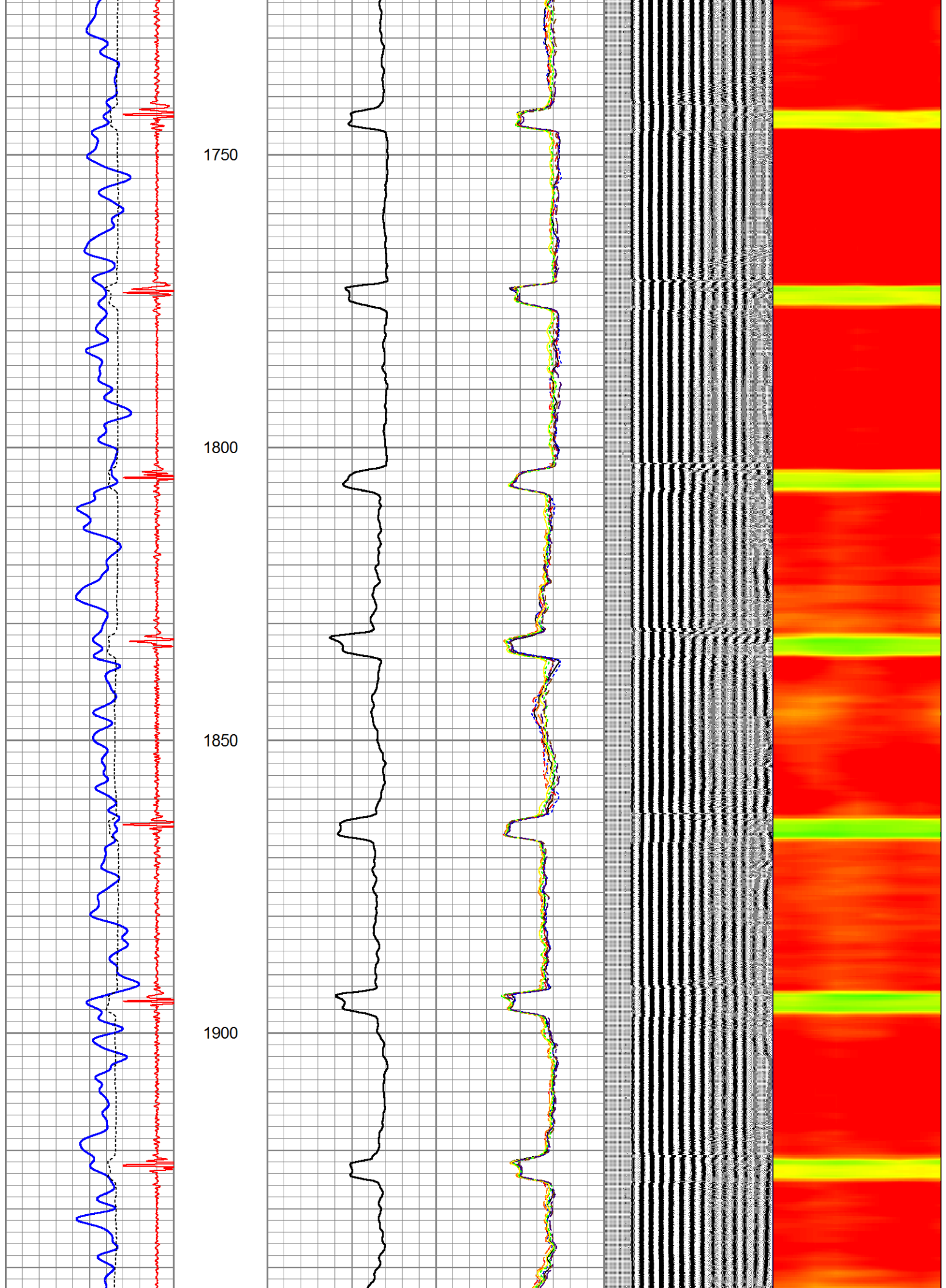


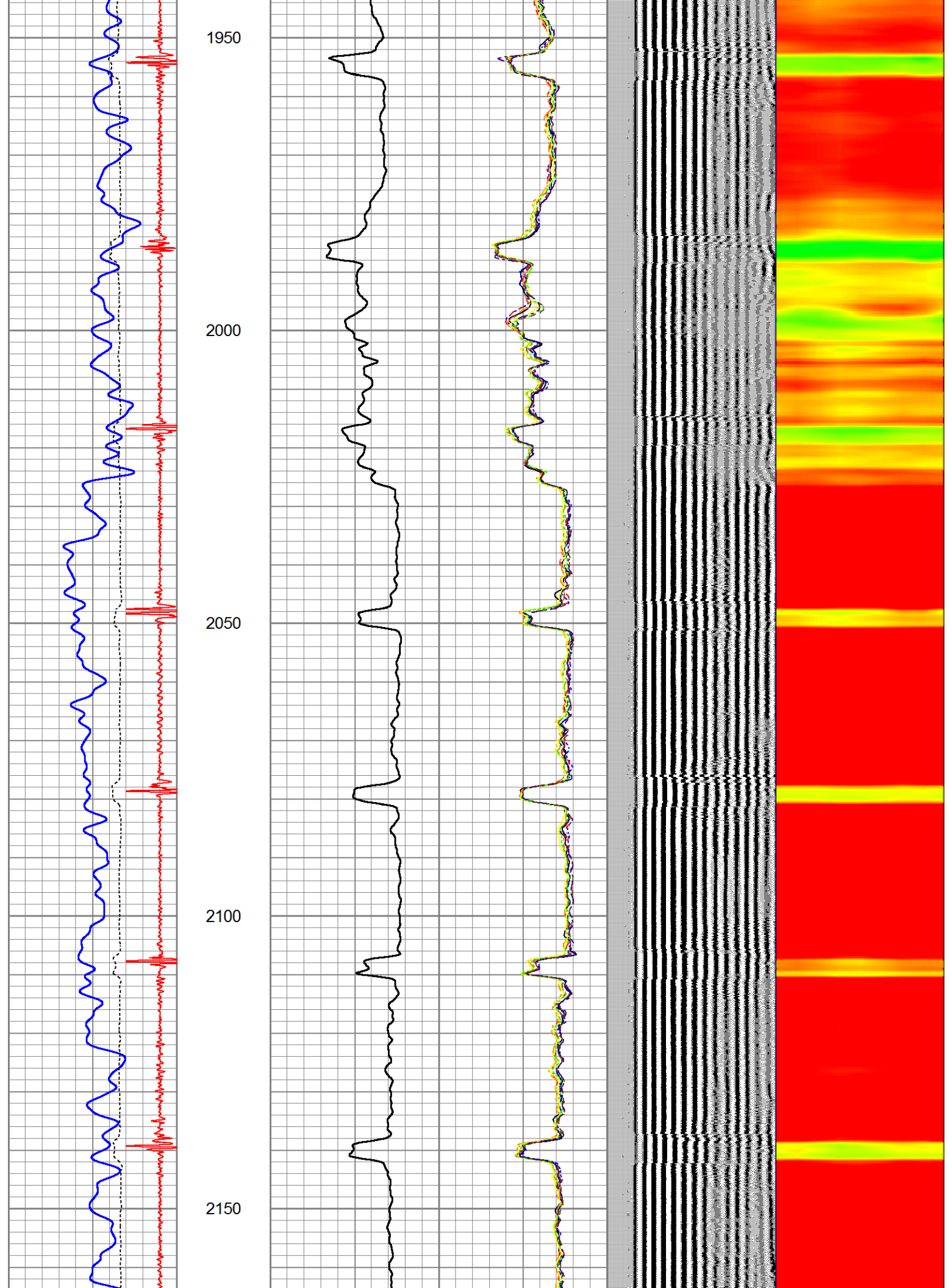


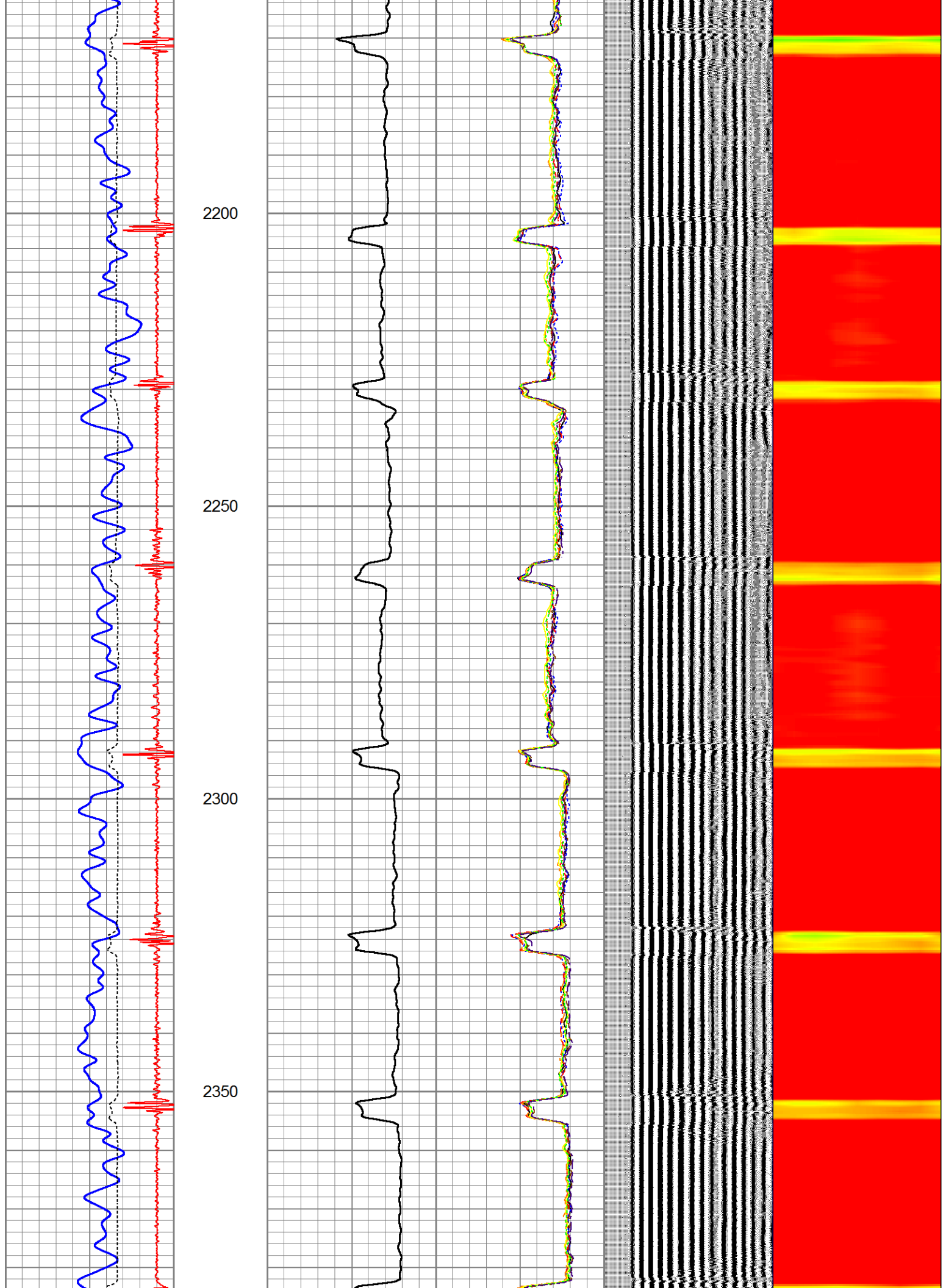


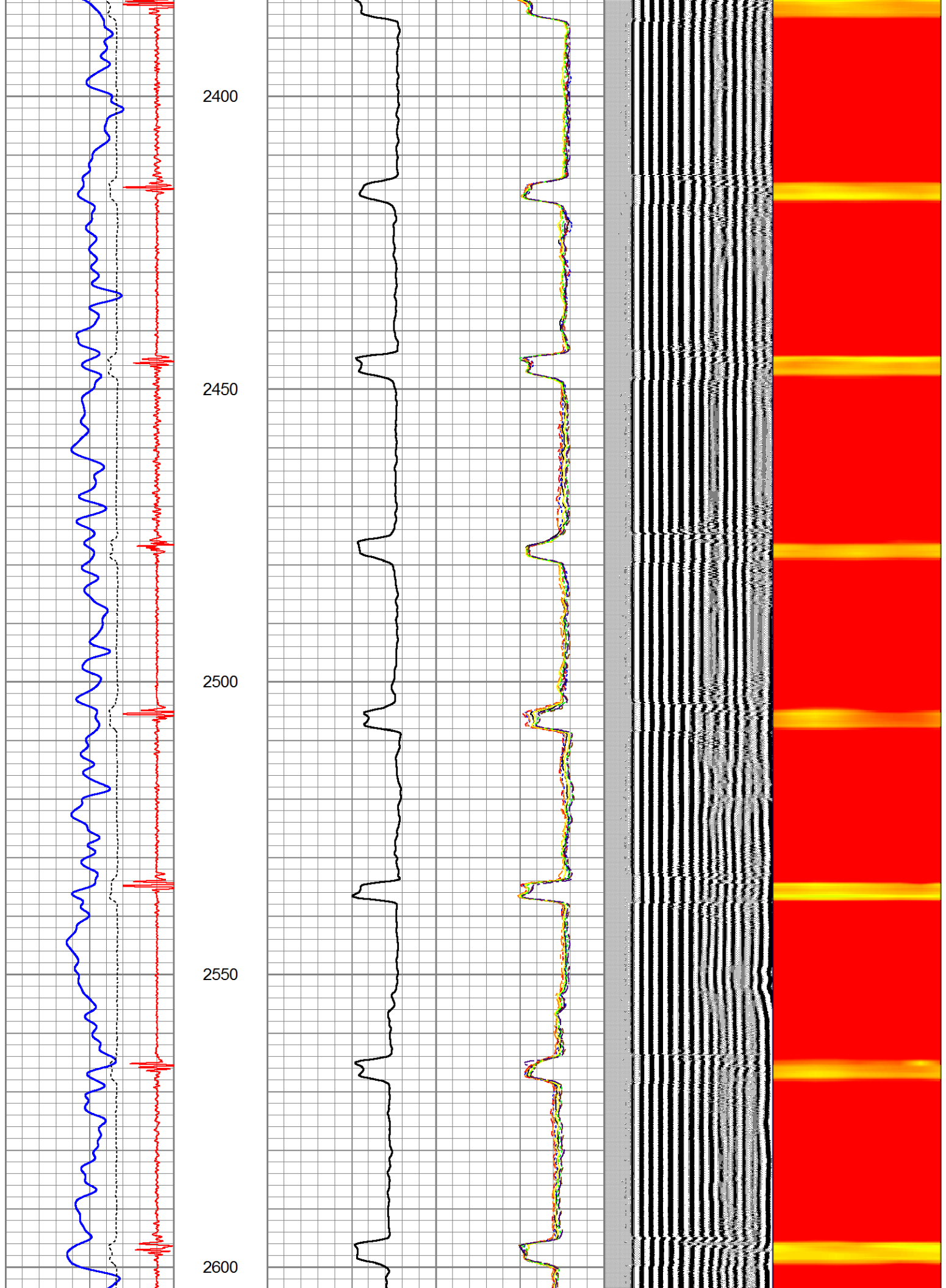


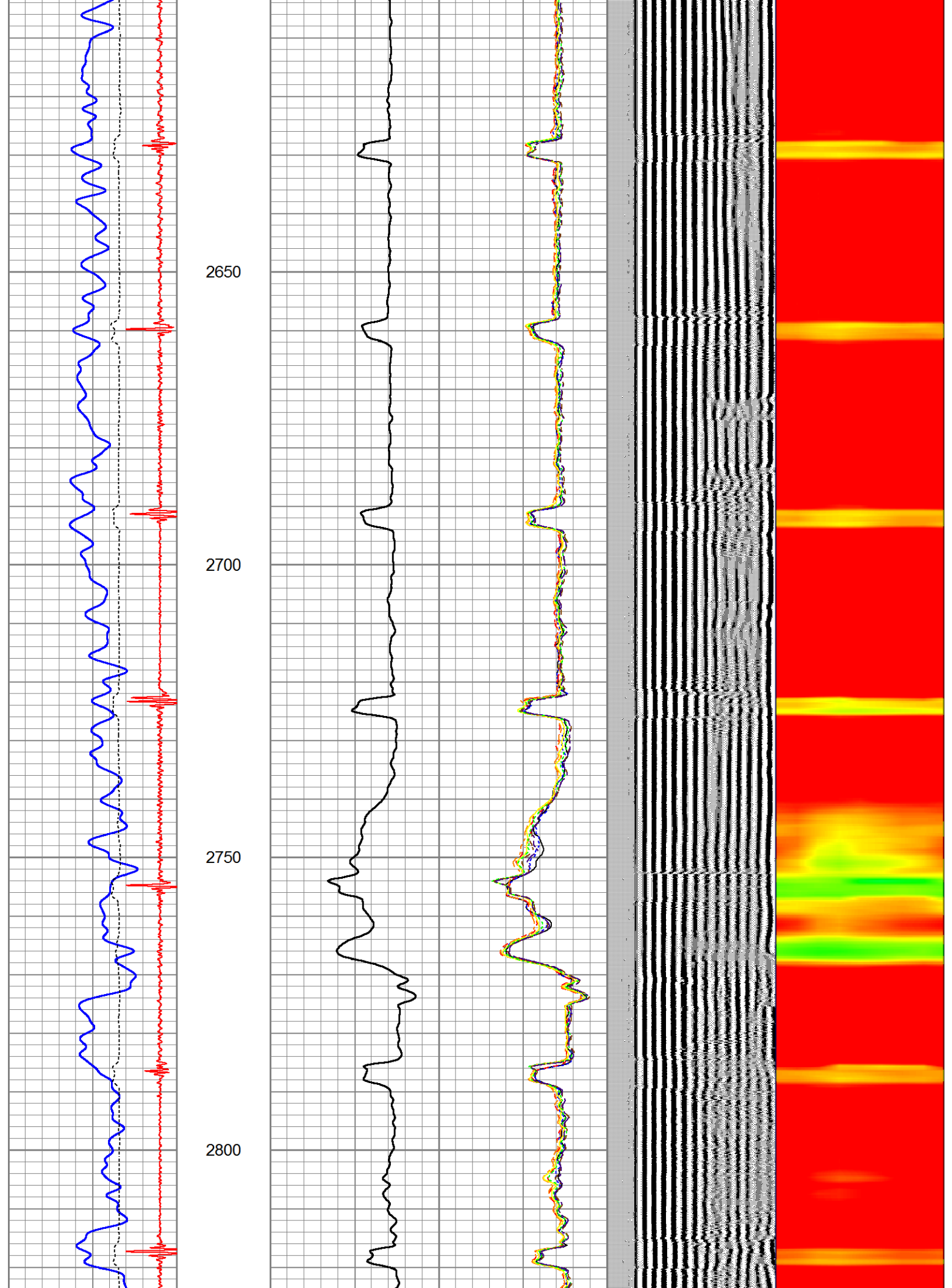


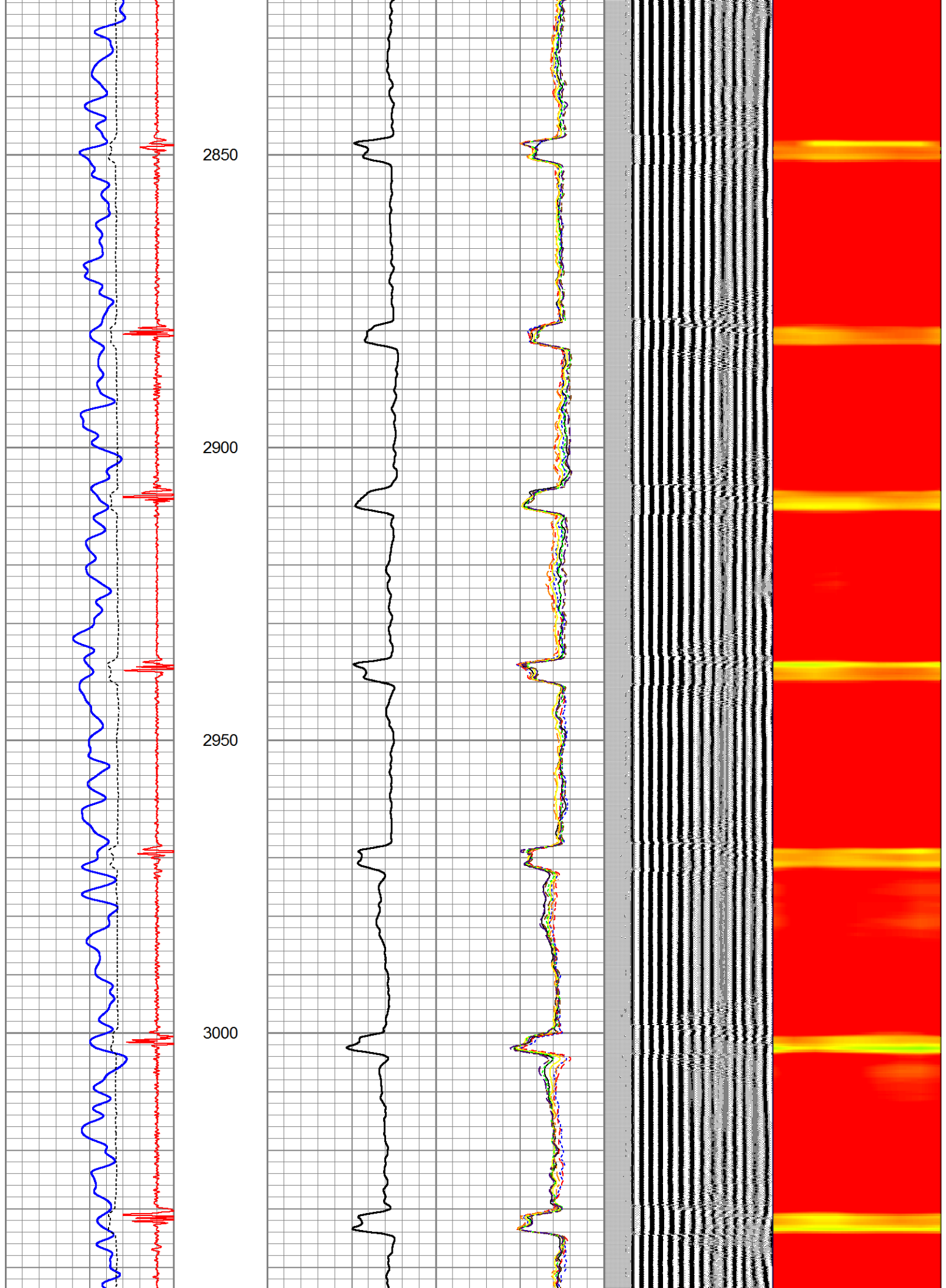


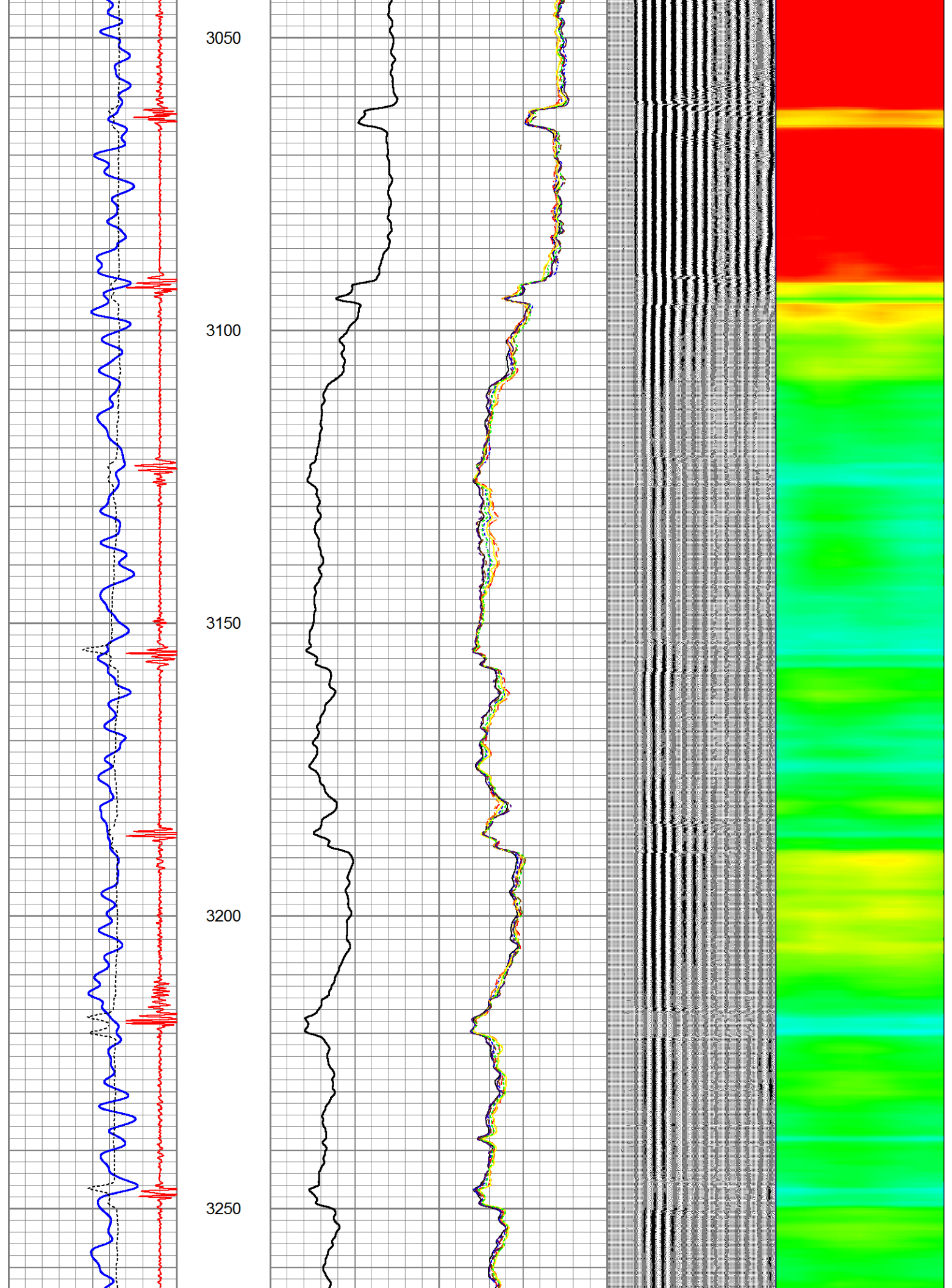


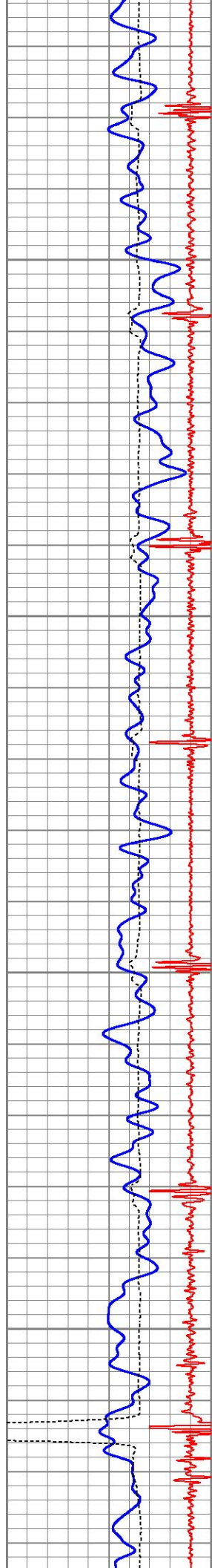










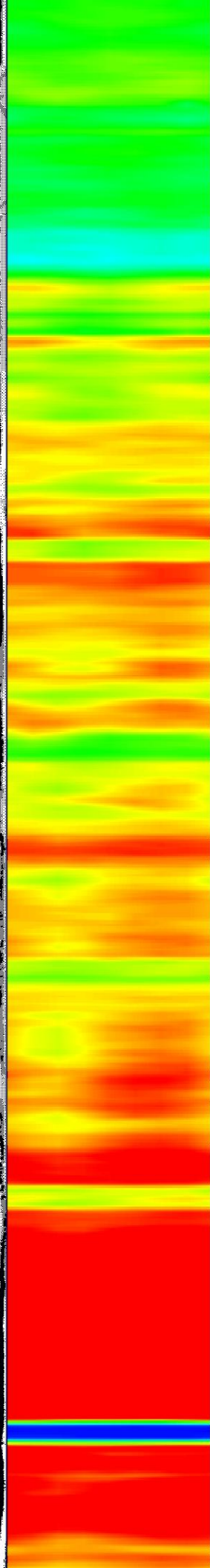
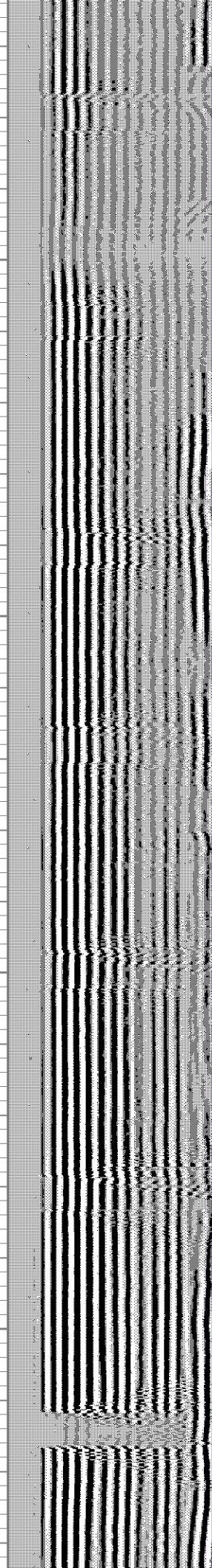
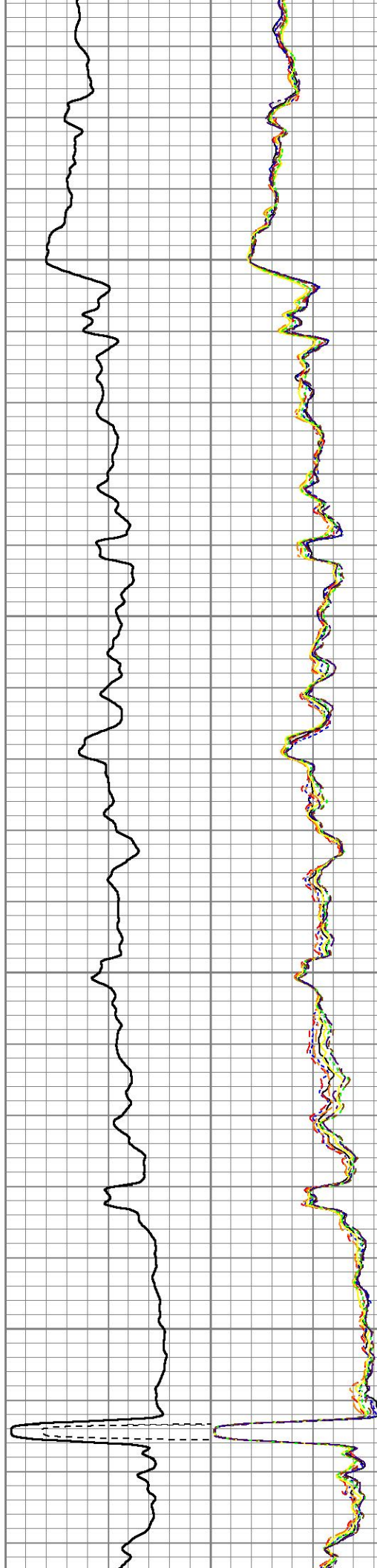


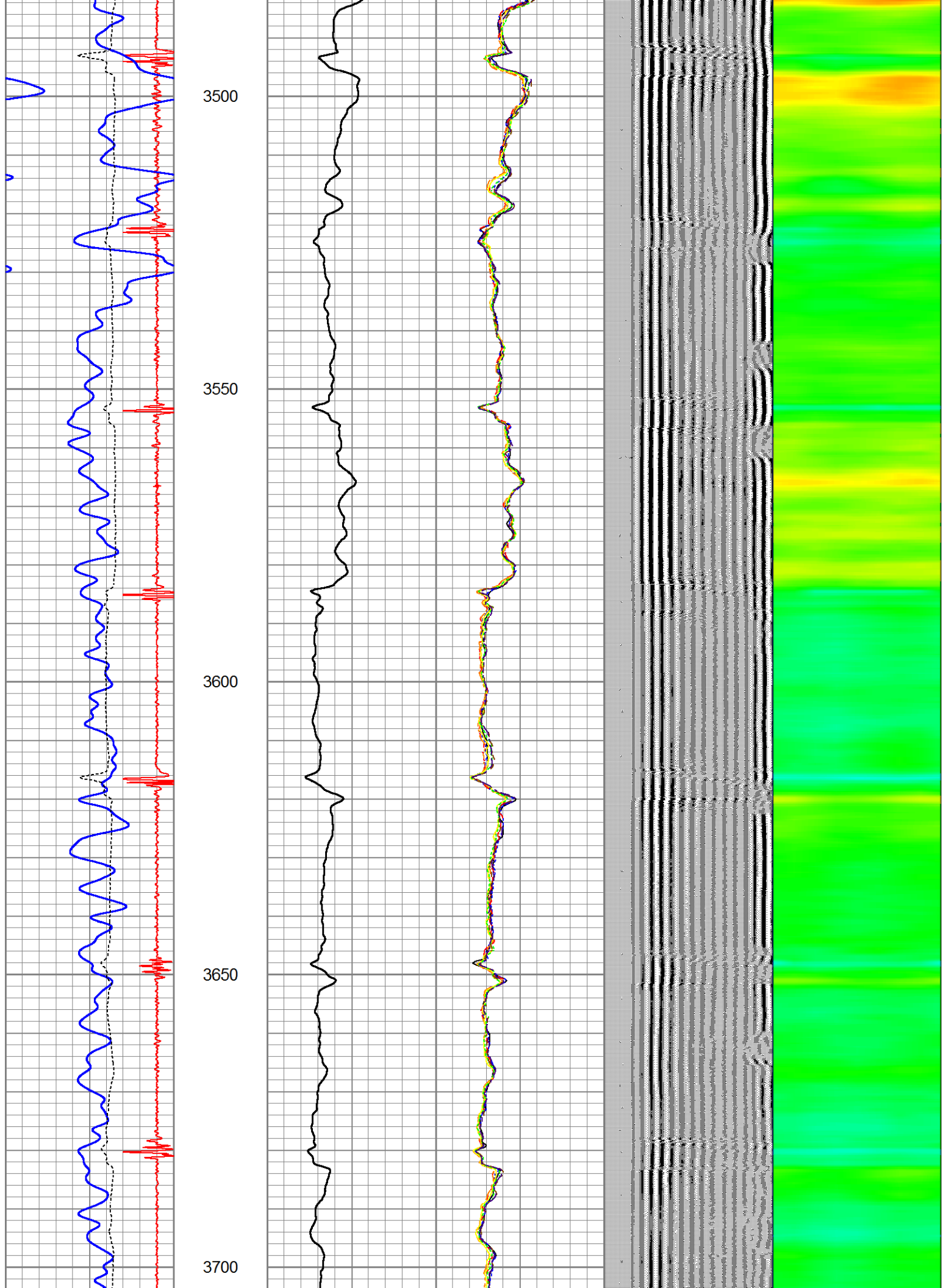
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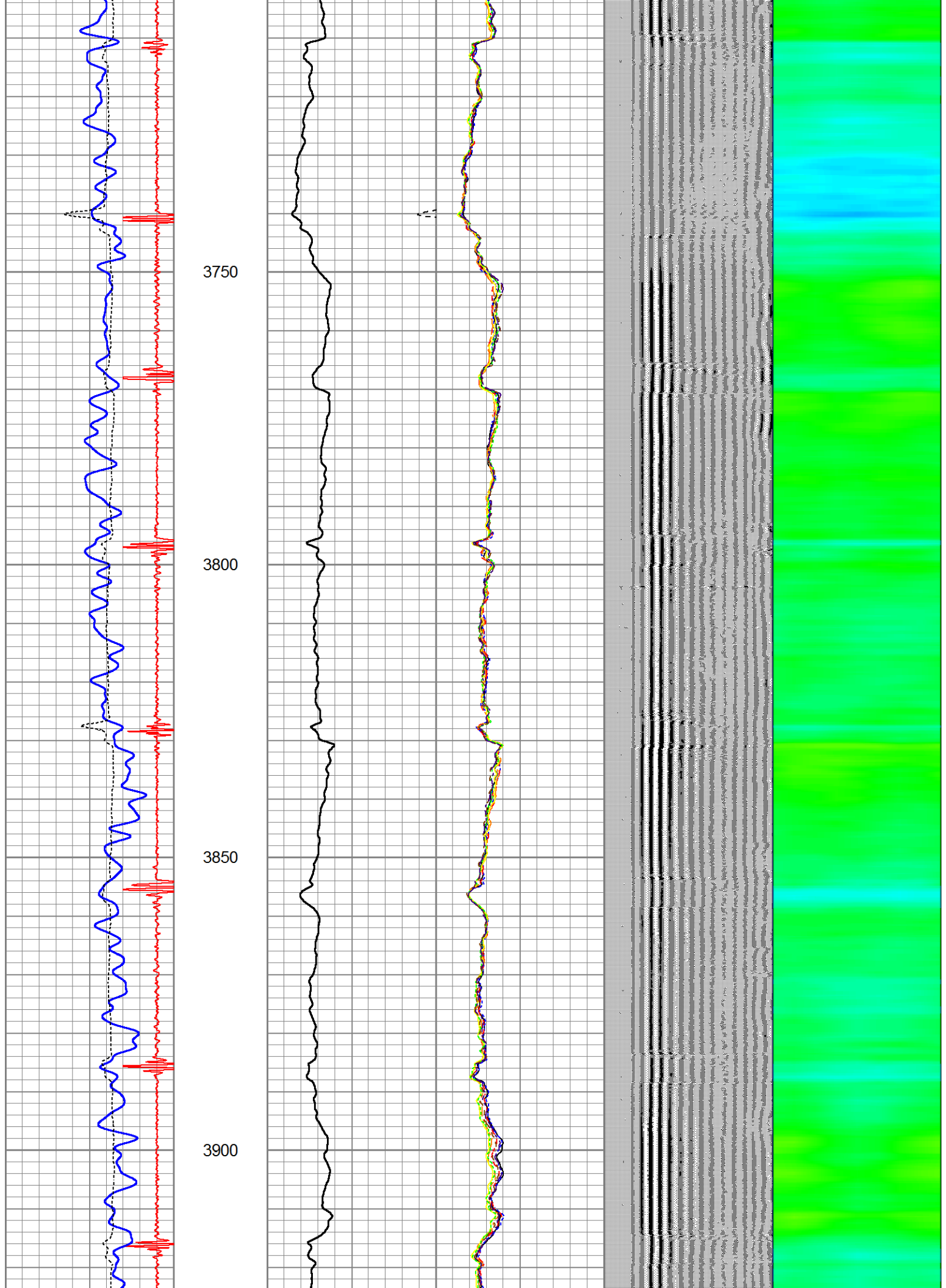
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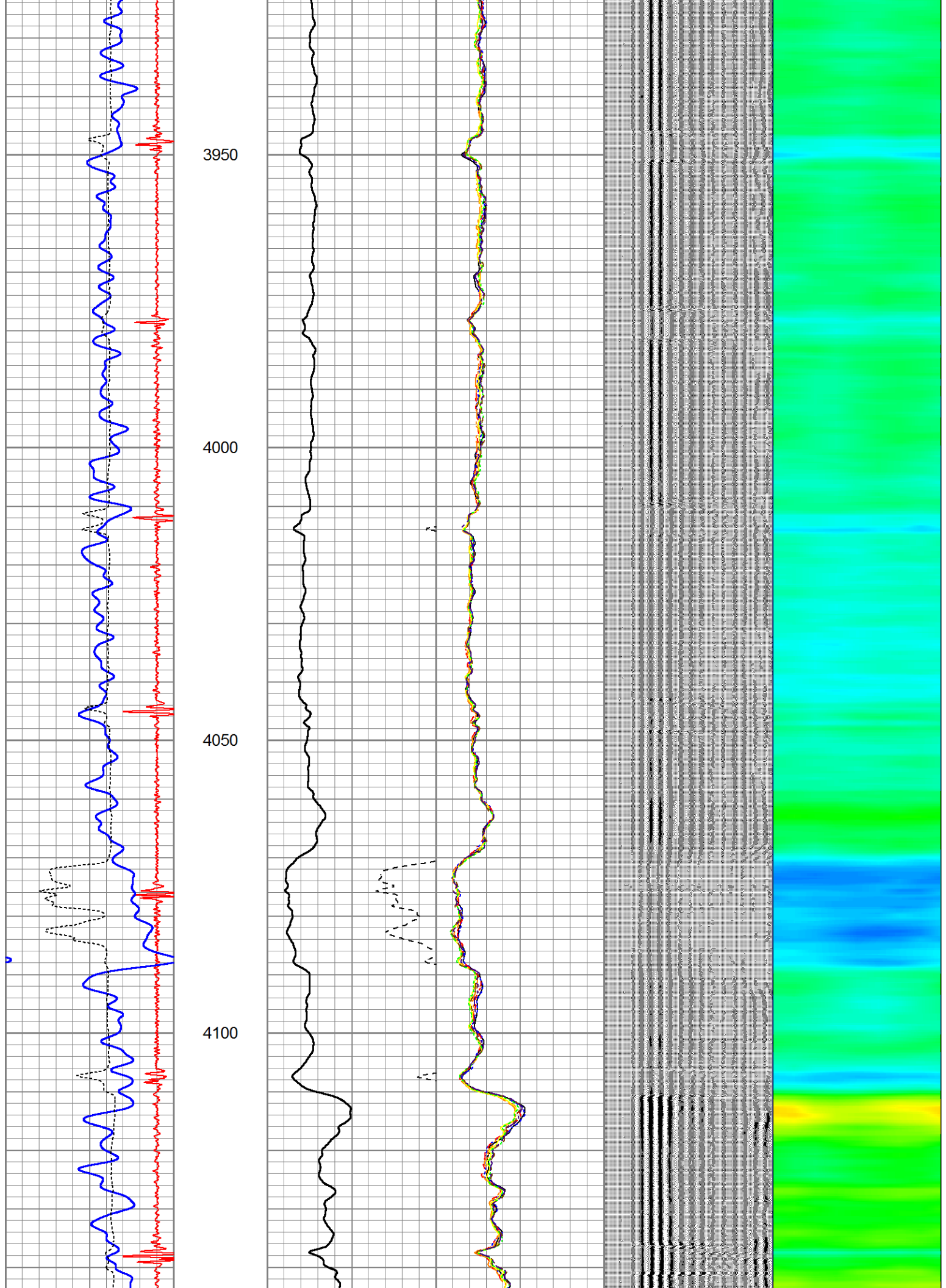
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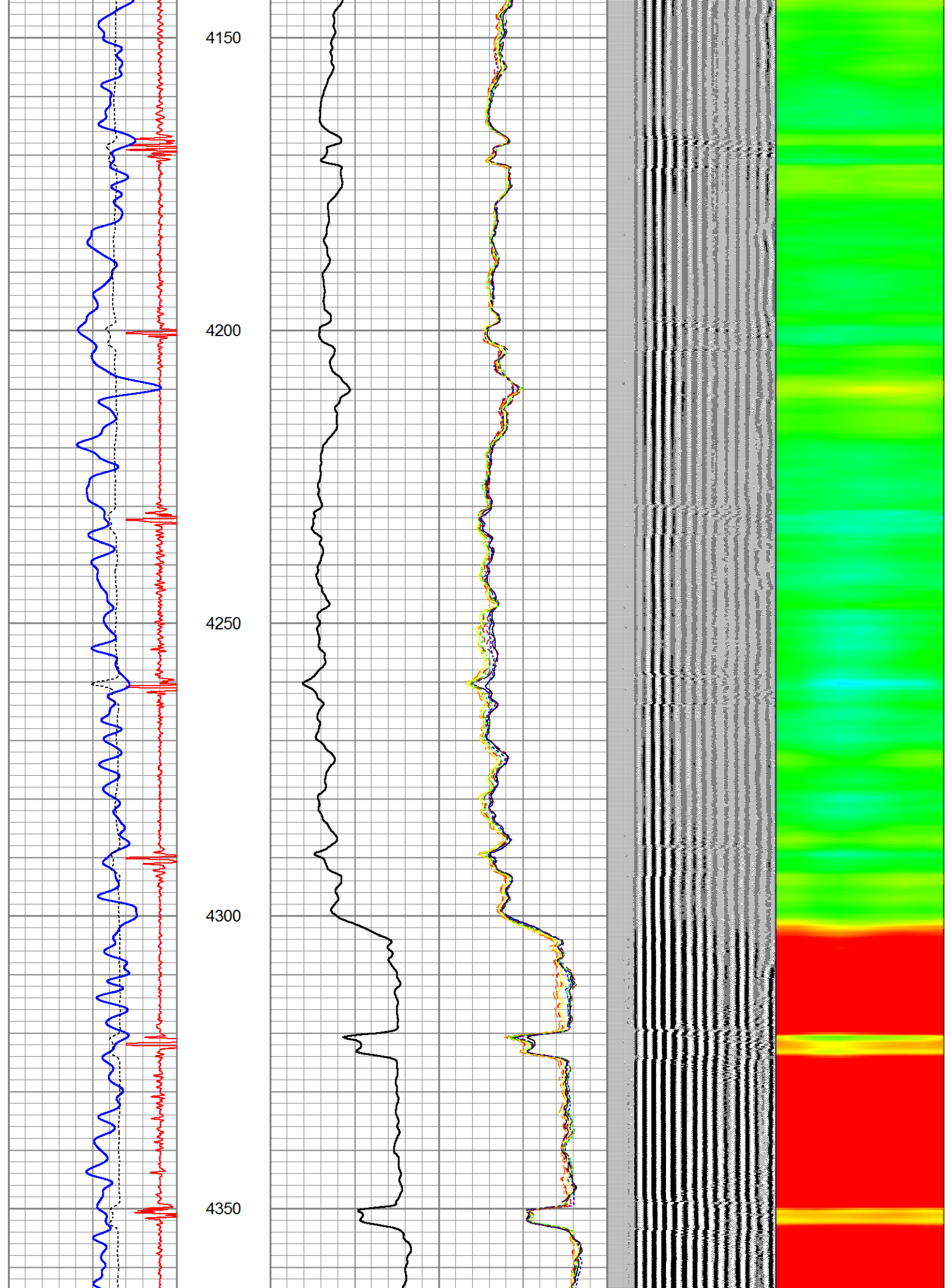
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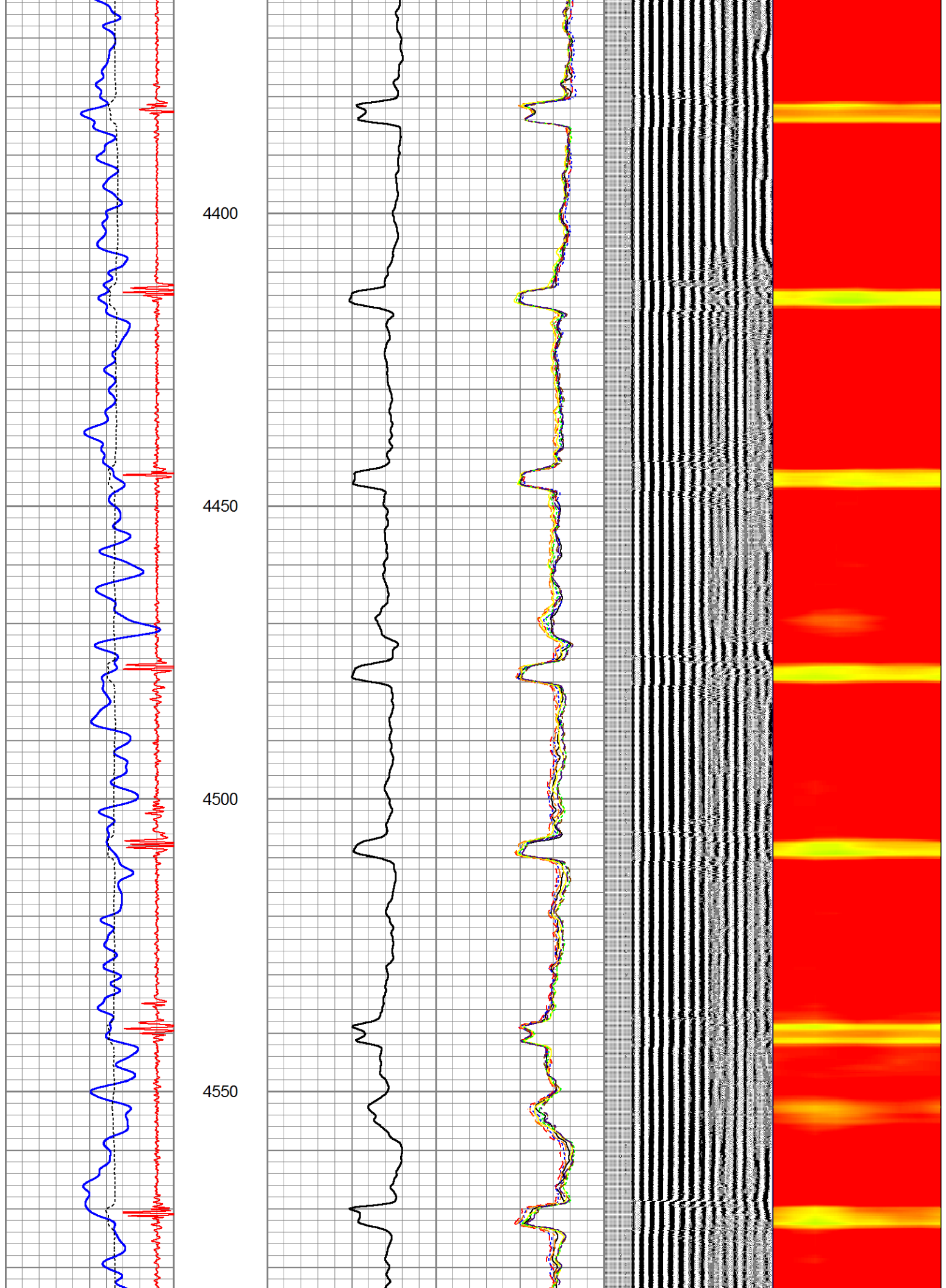


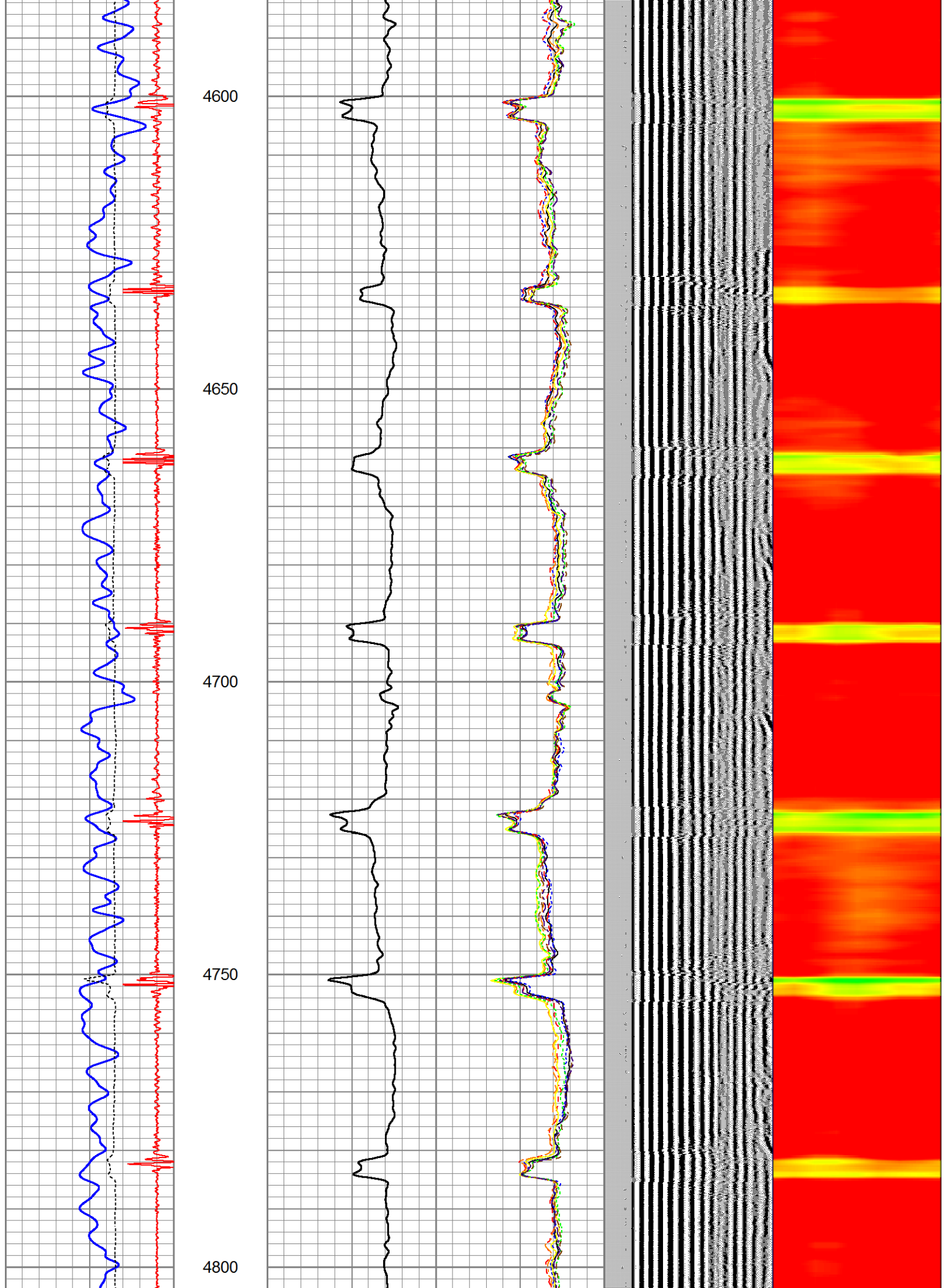


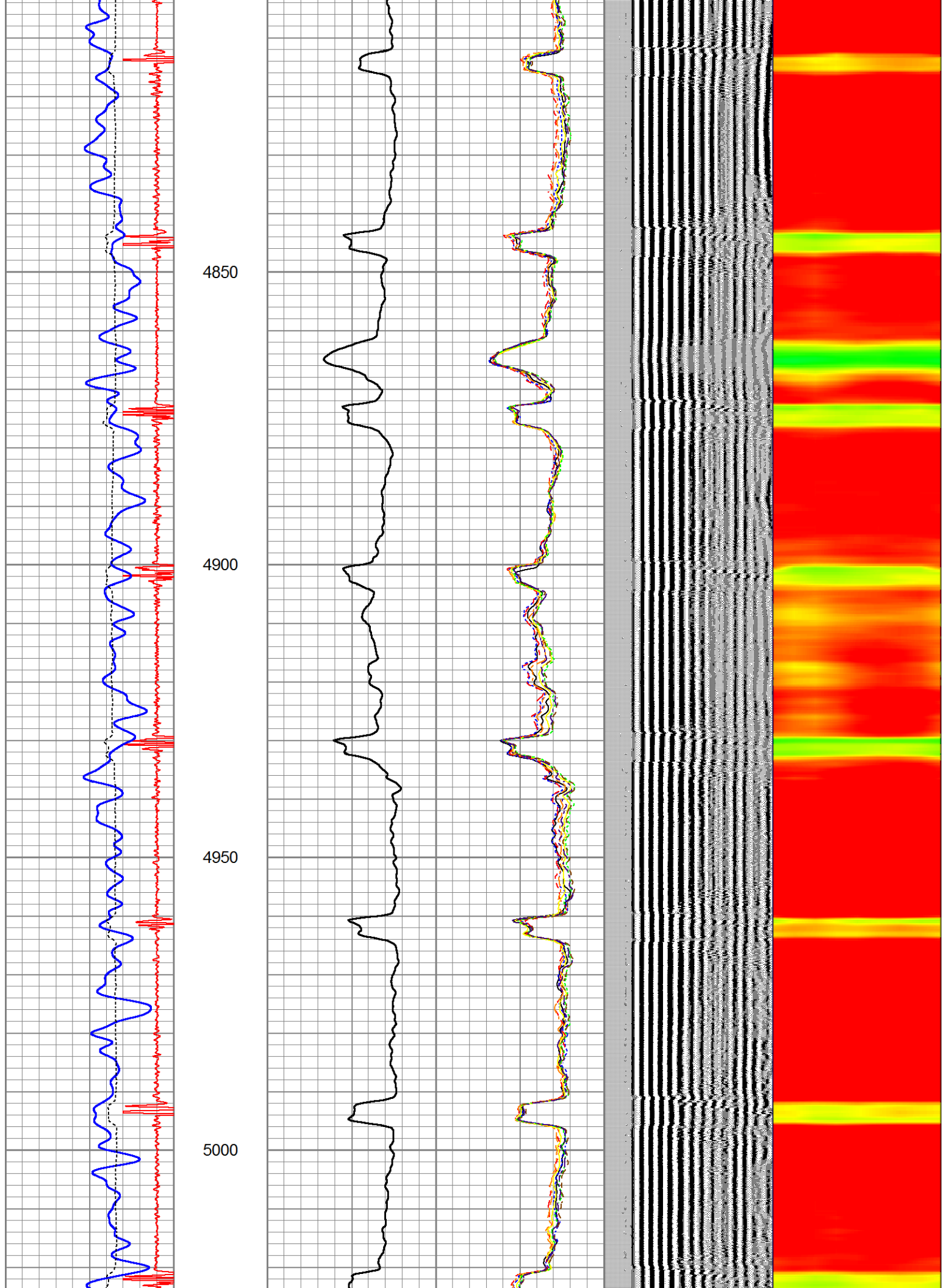


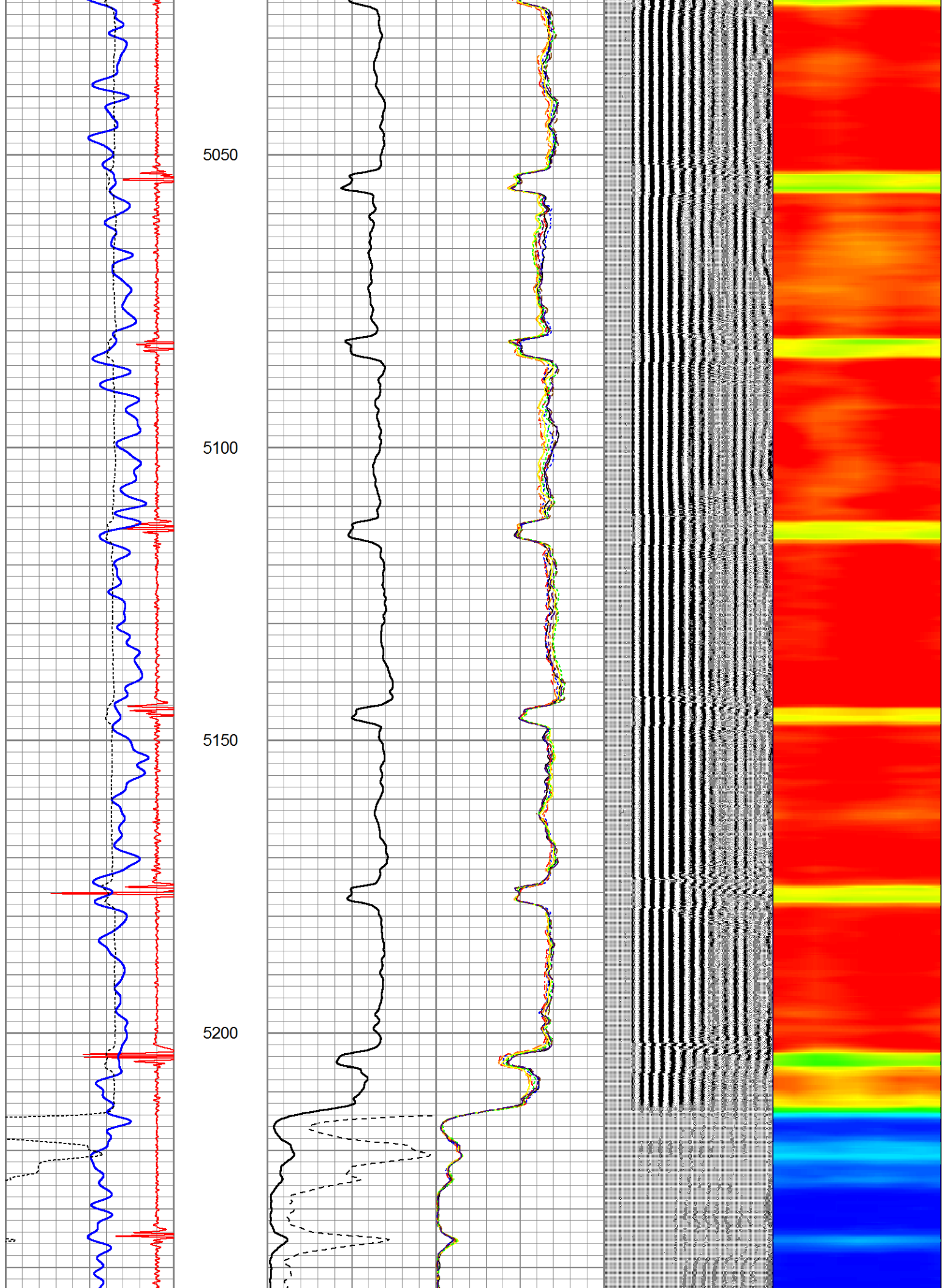


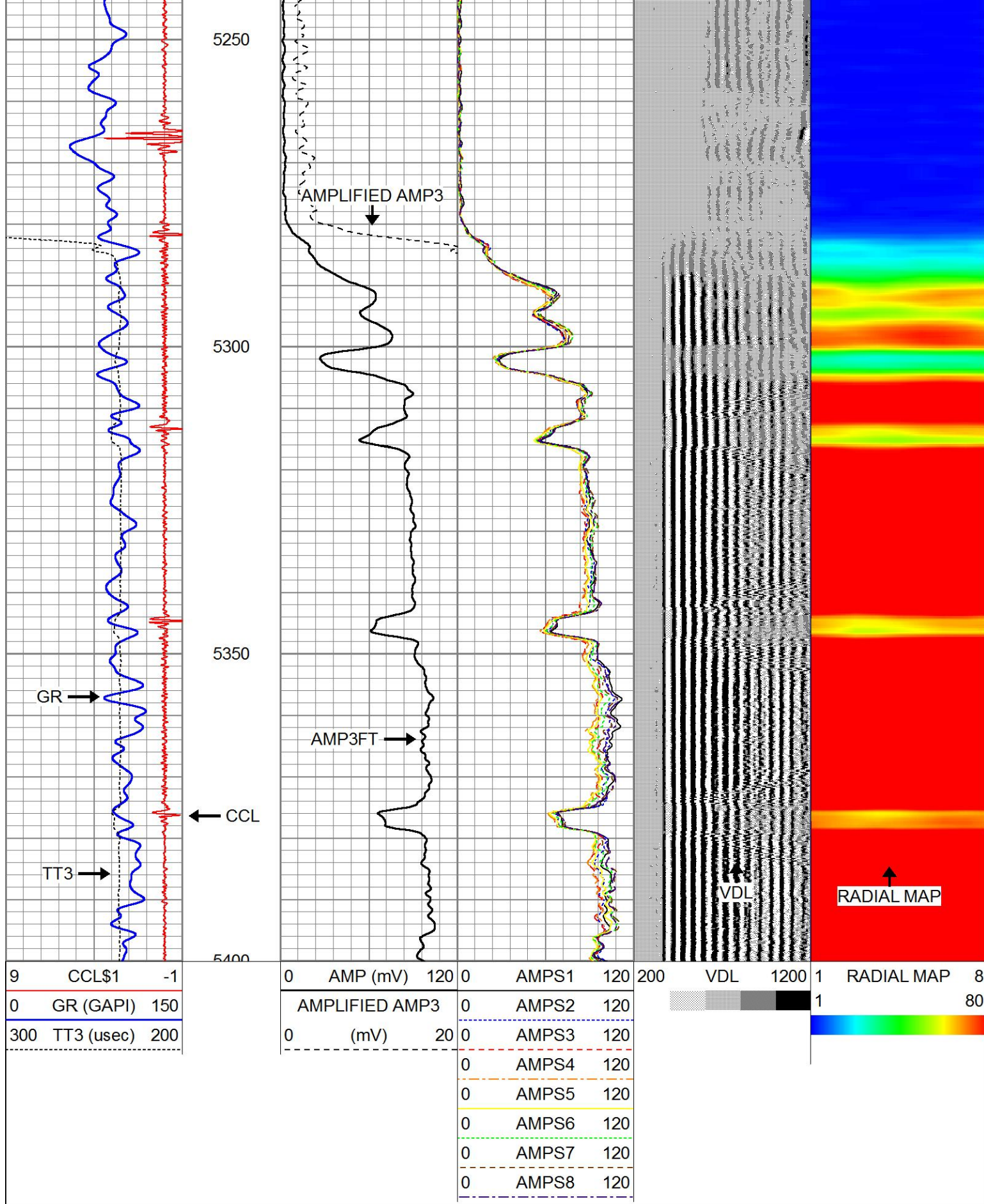












Calibration Report

Database File rothe state b 36-7.db
 Dataset Pathname pass14
 Dataset Creation Thu Jul 30 13:12:10 2020

Gamma Ray Calibration Report

Serial Number:	FW1806-005	
Tool Model:	GCT275	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1804-090	
Tool Model:	Probe 170	
Calibration Casing Diameter:	2.875	in
Calibration Depth:	5395.117	ft

Master Calibration, performed Thu Jul 30 12:55:28 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	2.003	1.000	106.451	52.634	1.000
CAL	0.000	2.499				
5'	0.000	1.295	1.000	106.451	81.443	1.000
SUM						
S1	0.000	1.934	0.000	106.451	55.046	0.000
S2	0.000	1.983	0.000	106.451	53.687	0.000
S3	0.000	2.020	0.000	106.451	52.707	0.000
S4	0.000	2.023	0.000	106.451	52.617	0.000
S5	0.000	1.944	0.000	106.451	54.765	0.000
S6	0.000	1.908	0.000	106.451	55.783	0.000
S7	0.000	1.996	0.000	106.451	53.330	0.000
S8	0.000	1.992	0.000	106.451	53.451	0.000

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	2.499	1.000	0.000

Air Zero Calibration, performed (Not Performed):

	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	