

<b>Company</b> Noble Energy <b>Well</b> ROTHE STATE B 36-7 <b>Field</b> Wattenberg <b>County</b> Weld <b>State</b> Colorado		<b>Company</b> Noble Energy <b>Well</b> ROTHE STATE B 36-7 <b>Field</b> Wattenberg <b>County</b> Weld <b>State</b> Colorado		<b>Location:</b> API # : 05-123-16704 SEC 36 TWP T5N RGE 64W SW/4 NE/4 Permanent Datum Ground Level Elevation 4599 Log Measured From Kelly Bushing Drilling Measured From Kelly Bushing		<b>Other Services</b> Elevation K.B. 4609 D.F. 4608 G.L. 4599	
<b>Date</b> 30 July 2020							
<b>Run Number</b>	One						
<b>Depth Driller</b>	6822						
<b>Depth Logger</b>	5401						
<b>Bottom Logged Interval</b>	5400						
<b>Top Log Interval</b>	Surface						
<b>Casing Size</b>	2 7/8						
<b>Type Fluid</b>	Water						
<b>Max. Recorded Temp.</b>	Not Recorded						
<b>Estimated Cement Top</b>	---						
<b>Time Well Ready</b>	ROA						
<b>Time Logger on Bottom</b>	13:00						
<b>Unit Number</b>	200100						
<b>Tool Size/ID Number</b>	1 11/16 Probe						
<b>location</b>	Sterling						
<b>Recorded By</b>	Scott Erb						
<b>Witnessed By</b>	Tony Mathias						
<b>Borehole Record</b>		<b>Tubing Record</b>					
<b>Run Number</b>	<b>Bit</b>	<b>From</b>	<b>To</b>	<b>Size</b>	<b>Weight</b>	<b>From</b>	<b>To</b>
<b>Casing Record</b>	<b>Size</b>	<b>Wgt/Ft</b>	<b>Top</b>	<b>Bottom</b>			
<b>Surface String</b>	8 5/8	24	<b>Surface</b>	304			
<b>Prot. String</b>							
<b>Production String</b>	2 7/8	6.5	<b>Surface</b>	<b>Total Depth</b>			
<b>Liner</b>							

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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.

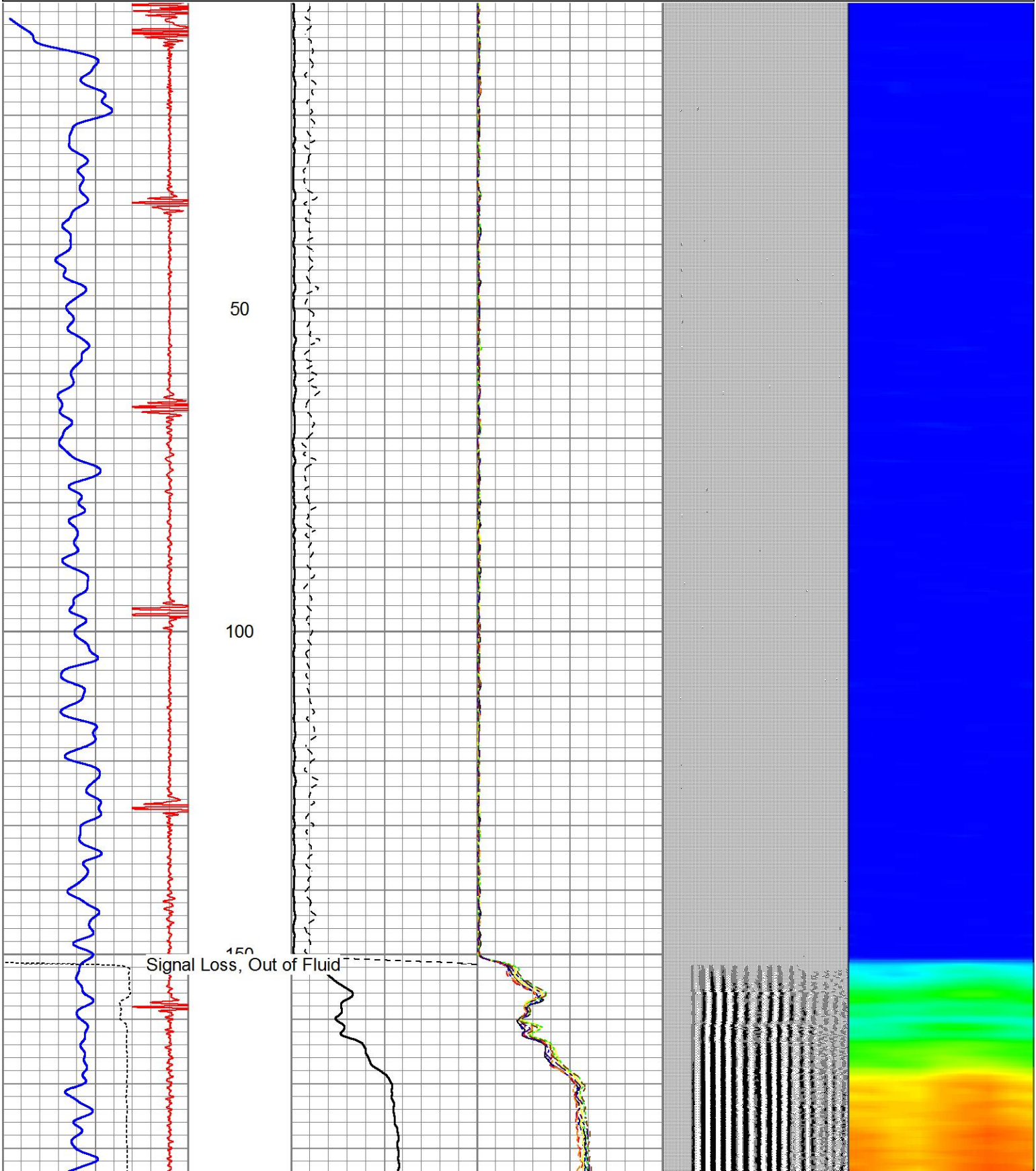
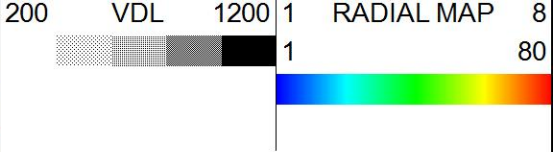
**Comments**

No log available for correlation

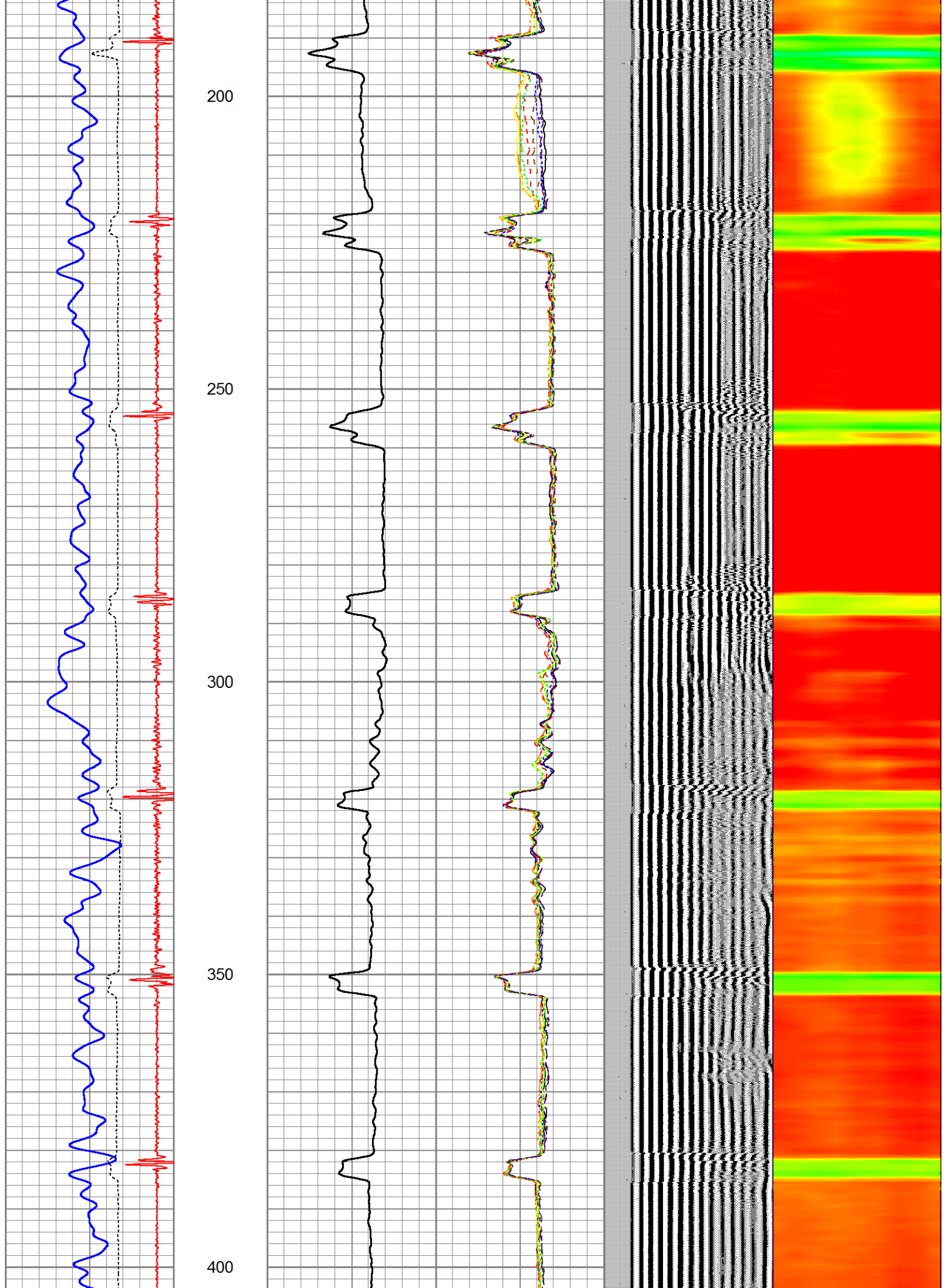
9	CCL\$1	-1
0	GR (GAPI)	150
300	TT3 (usec)	200

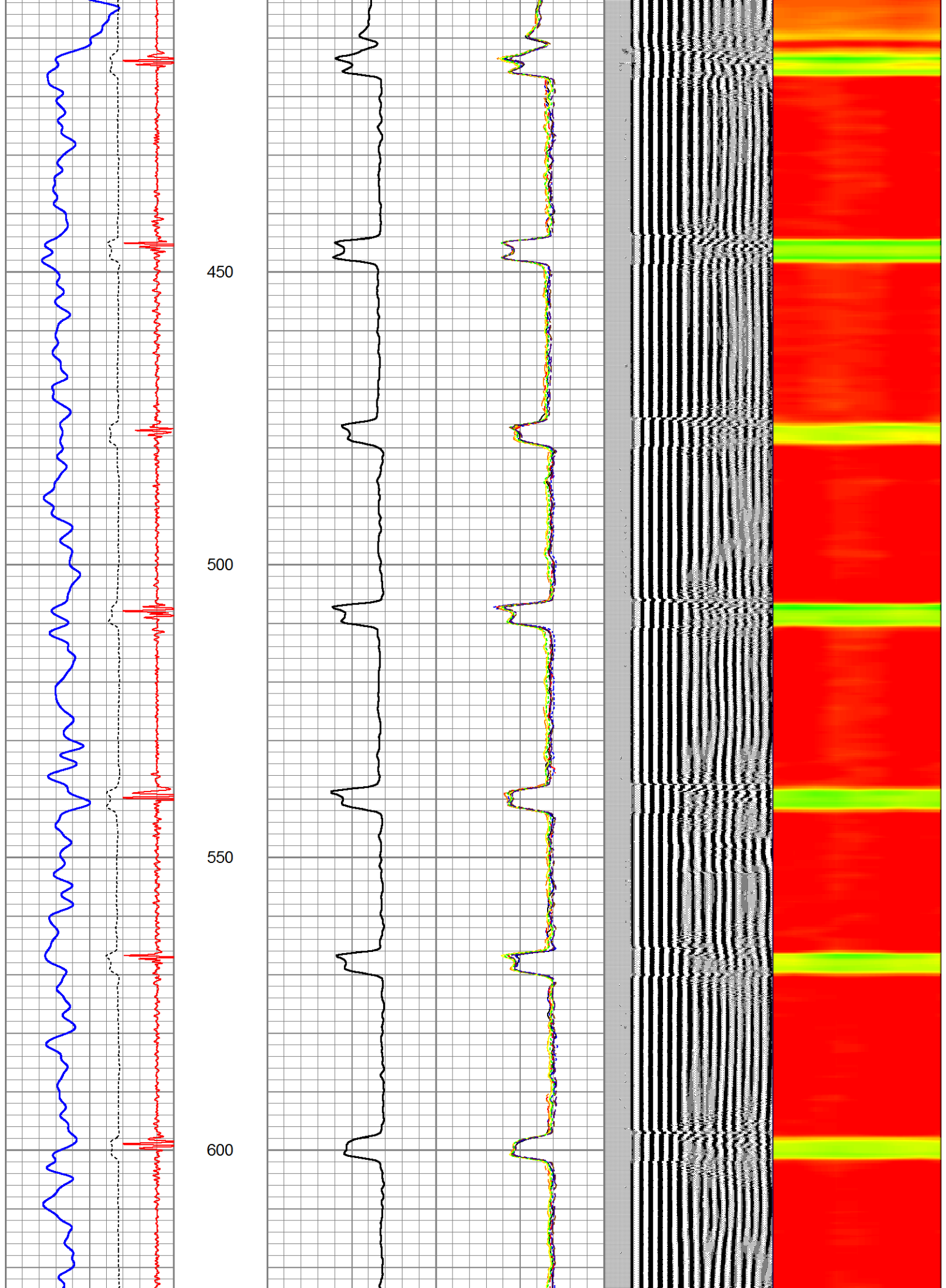
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	AMPLIFIED AMP3	
0	(mV)	20

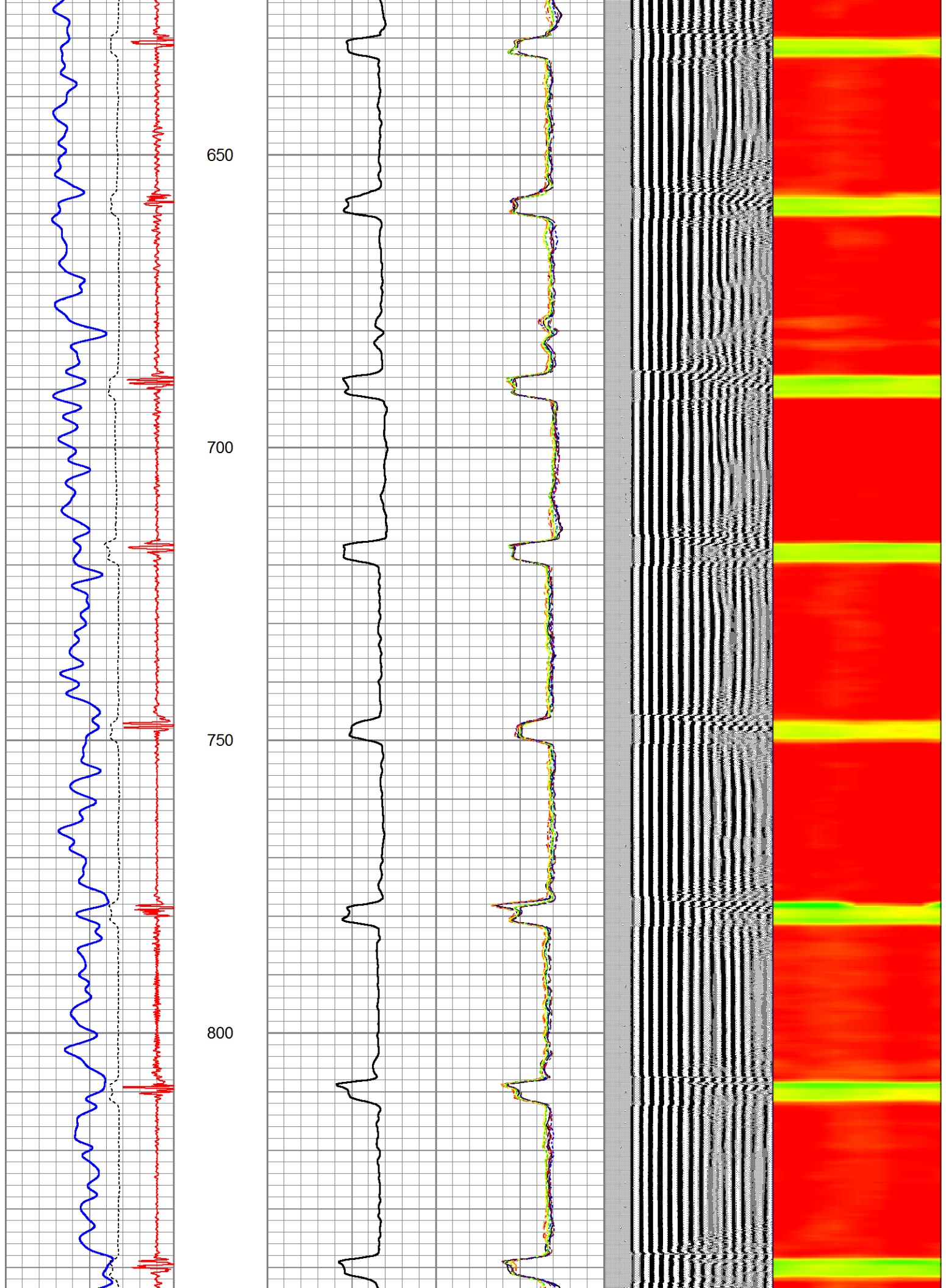
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0	AMPS2	120
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0	AMPS4	120
0	AMPS5	120
0	AMPS6	120
0	AMPS7	120
0	AMPS8	120



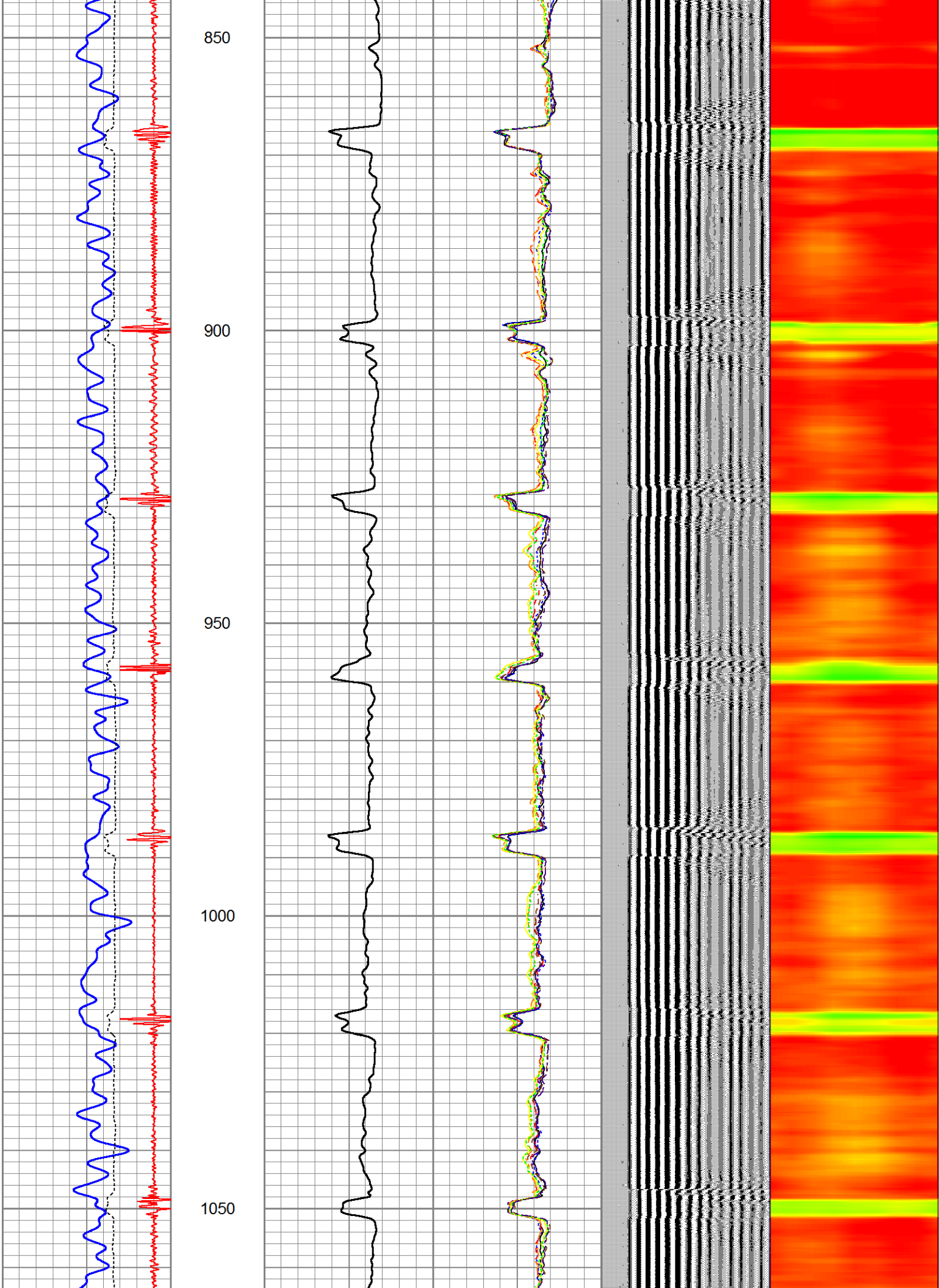


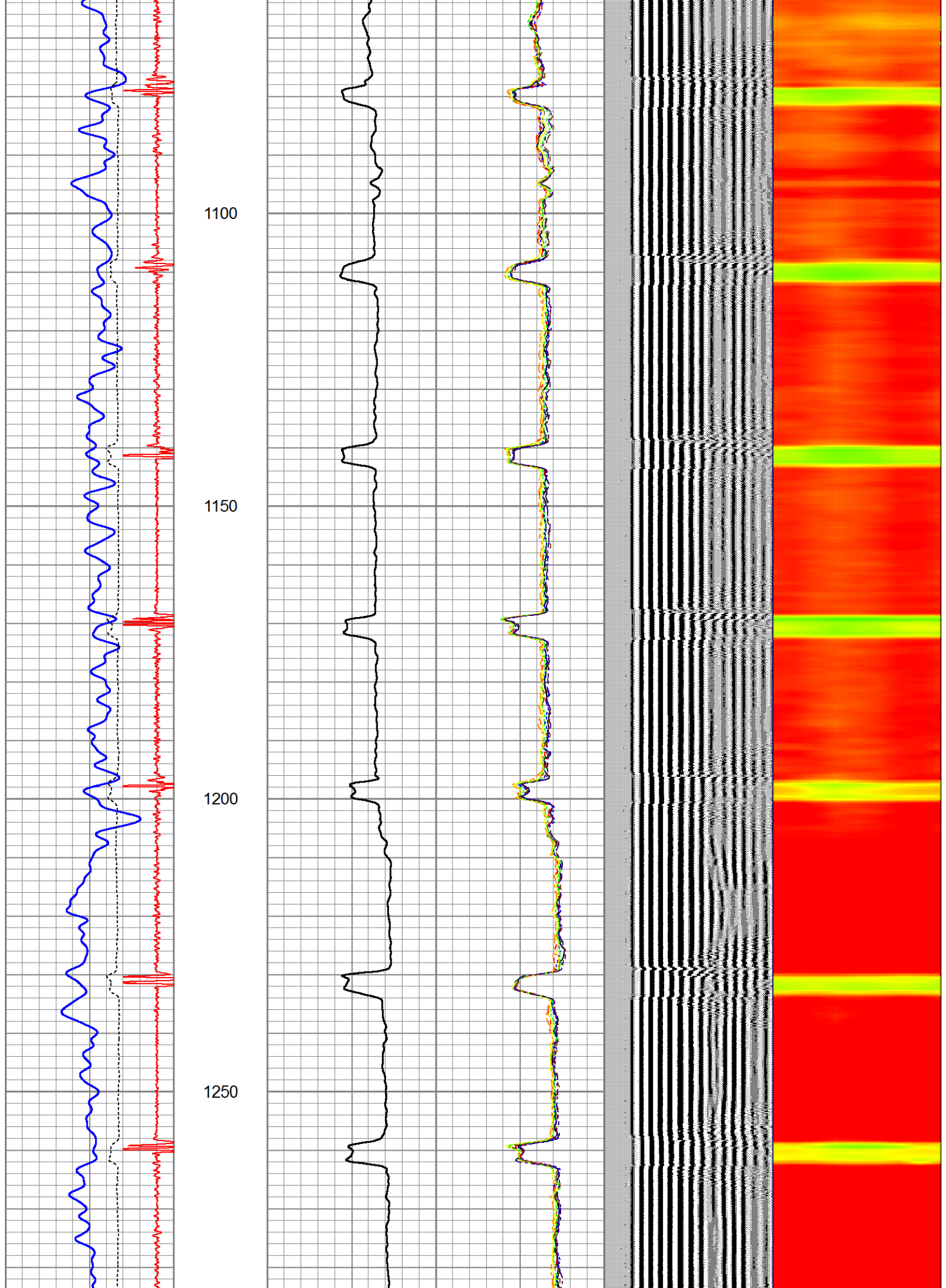




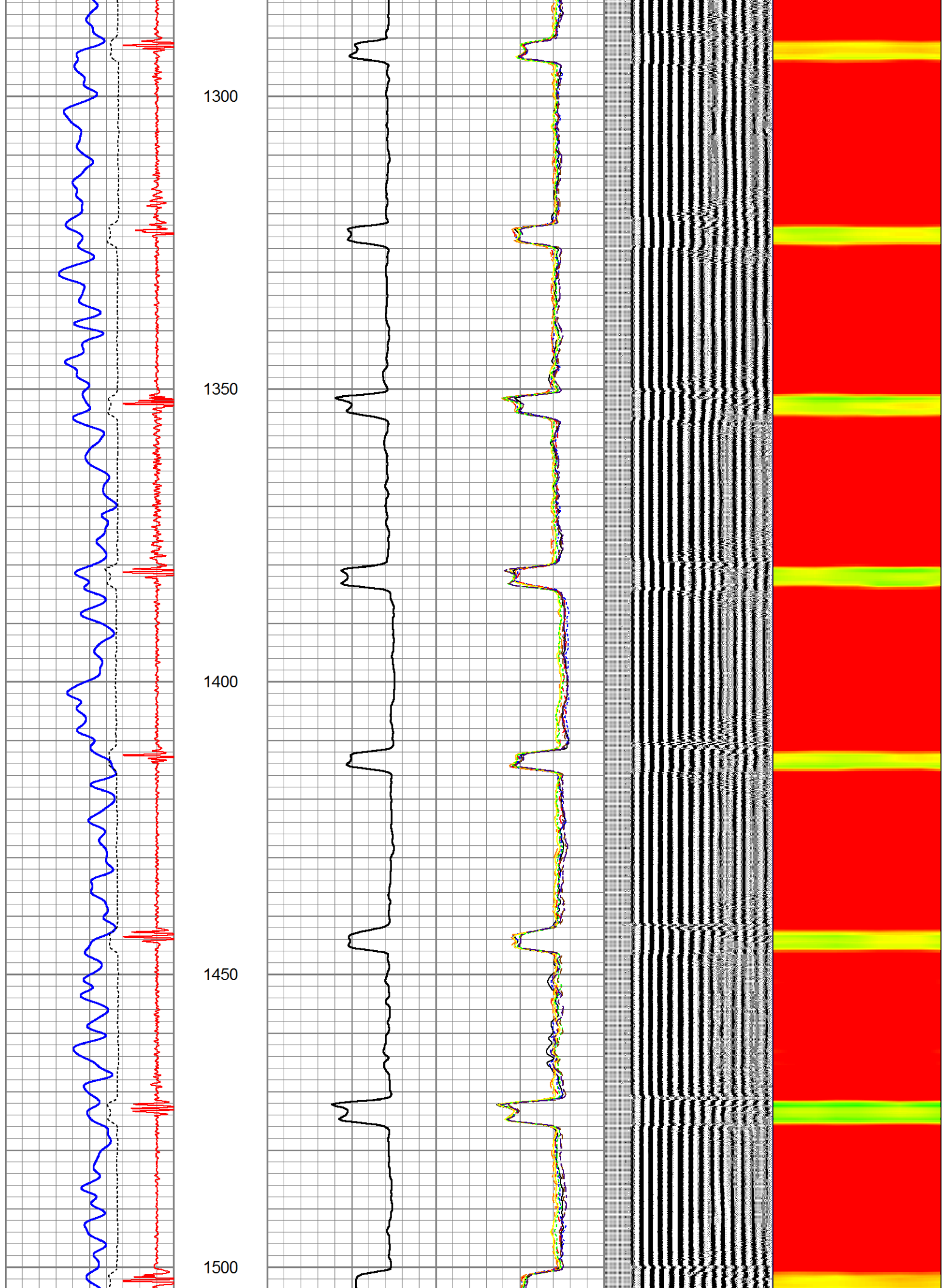




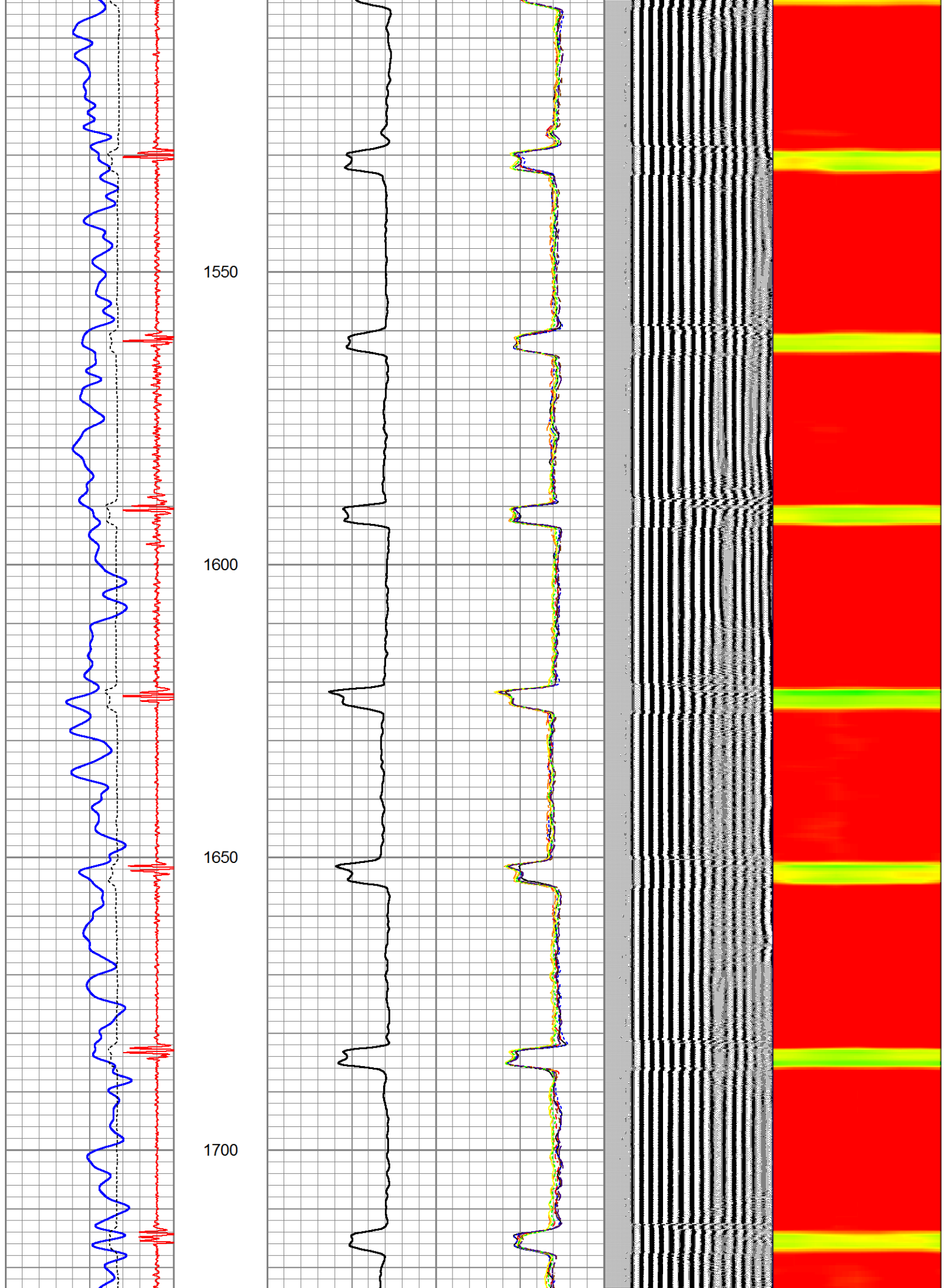


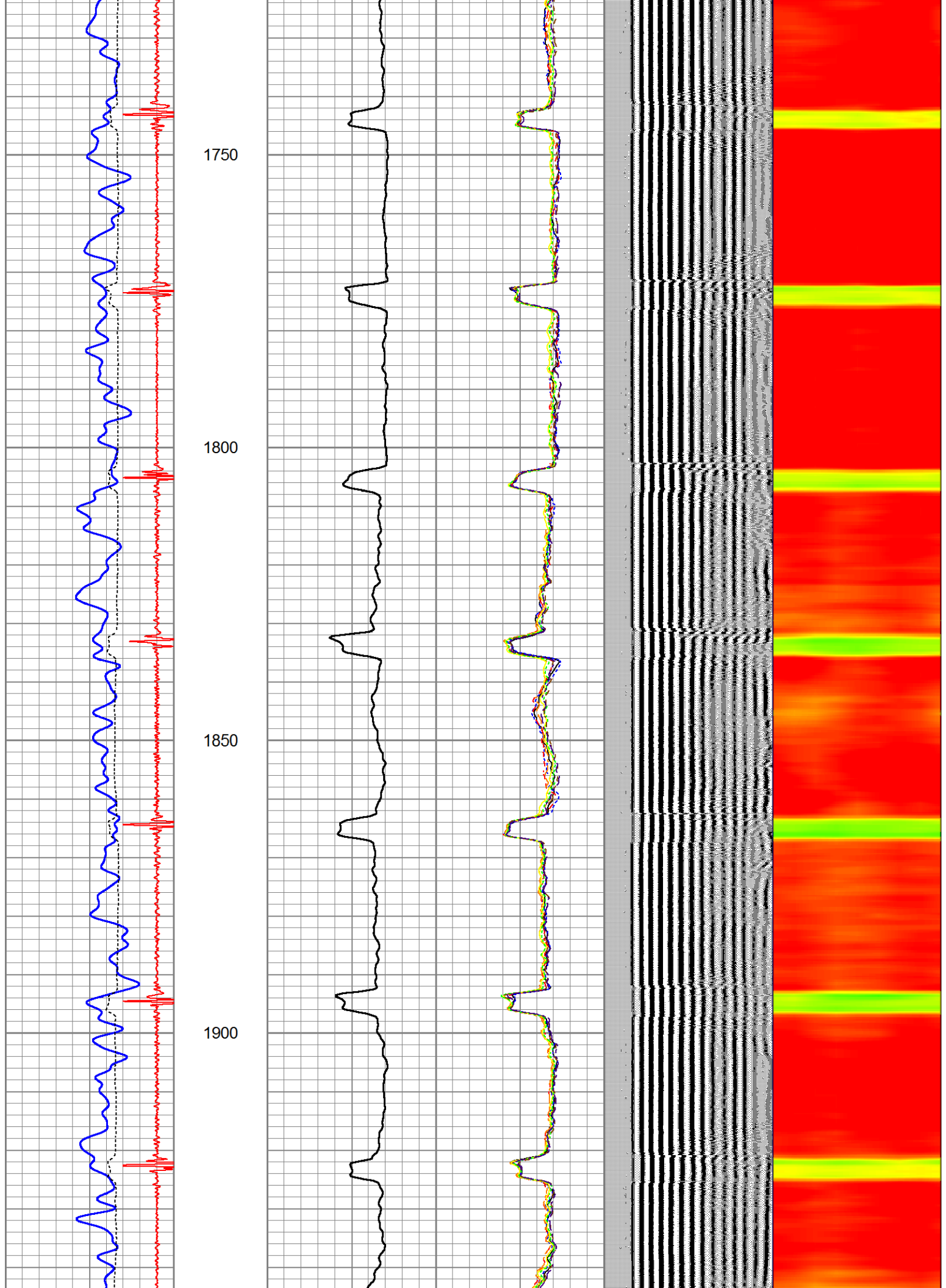




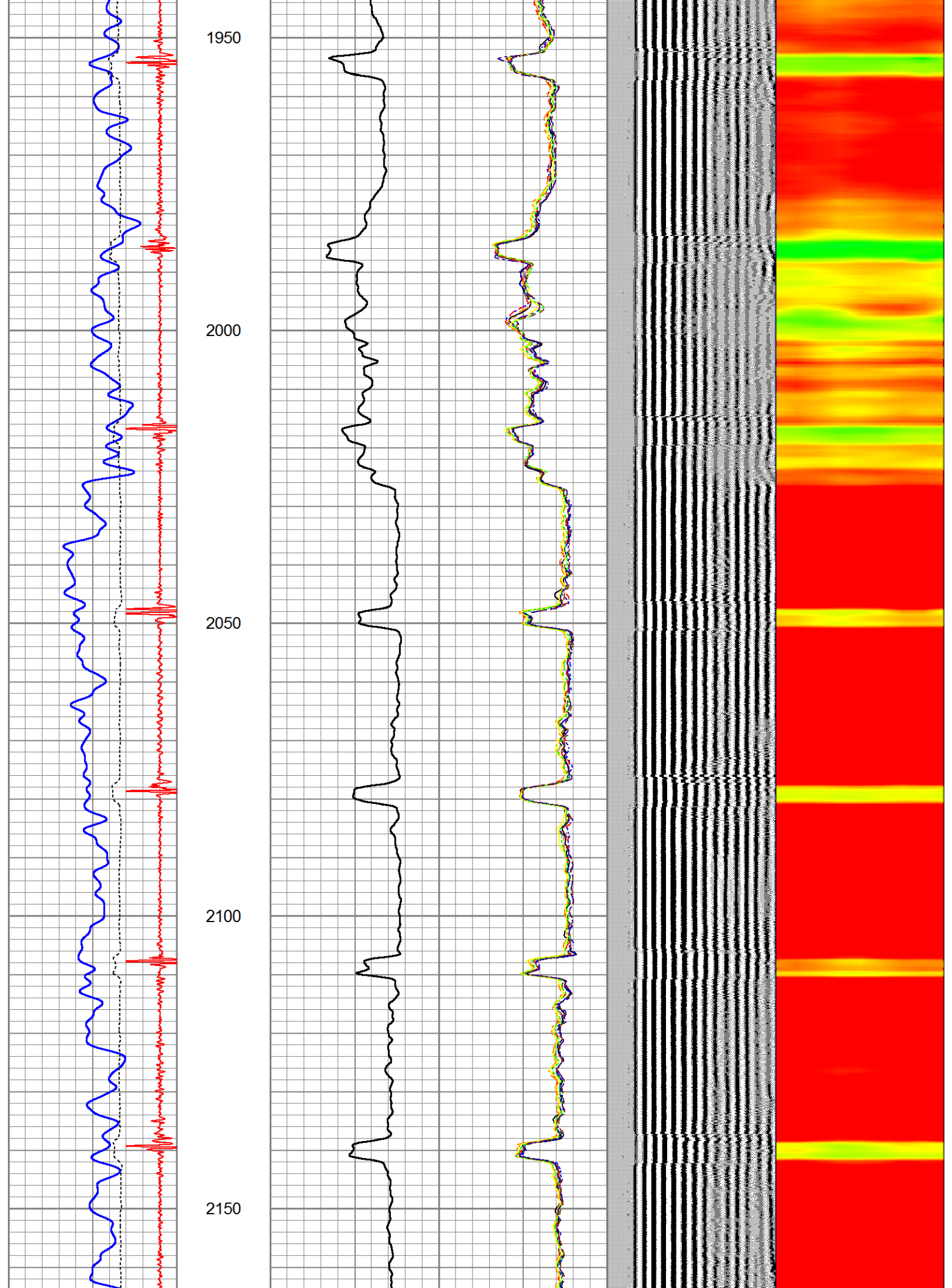


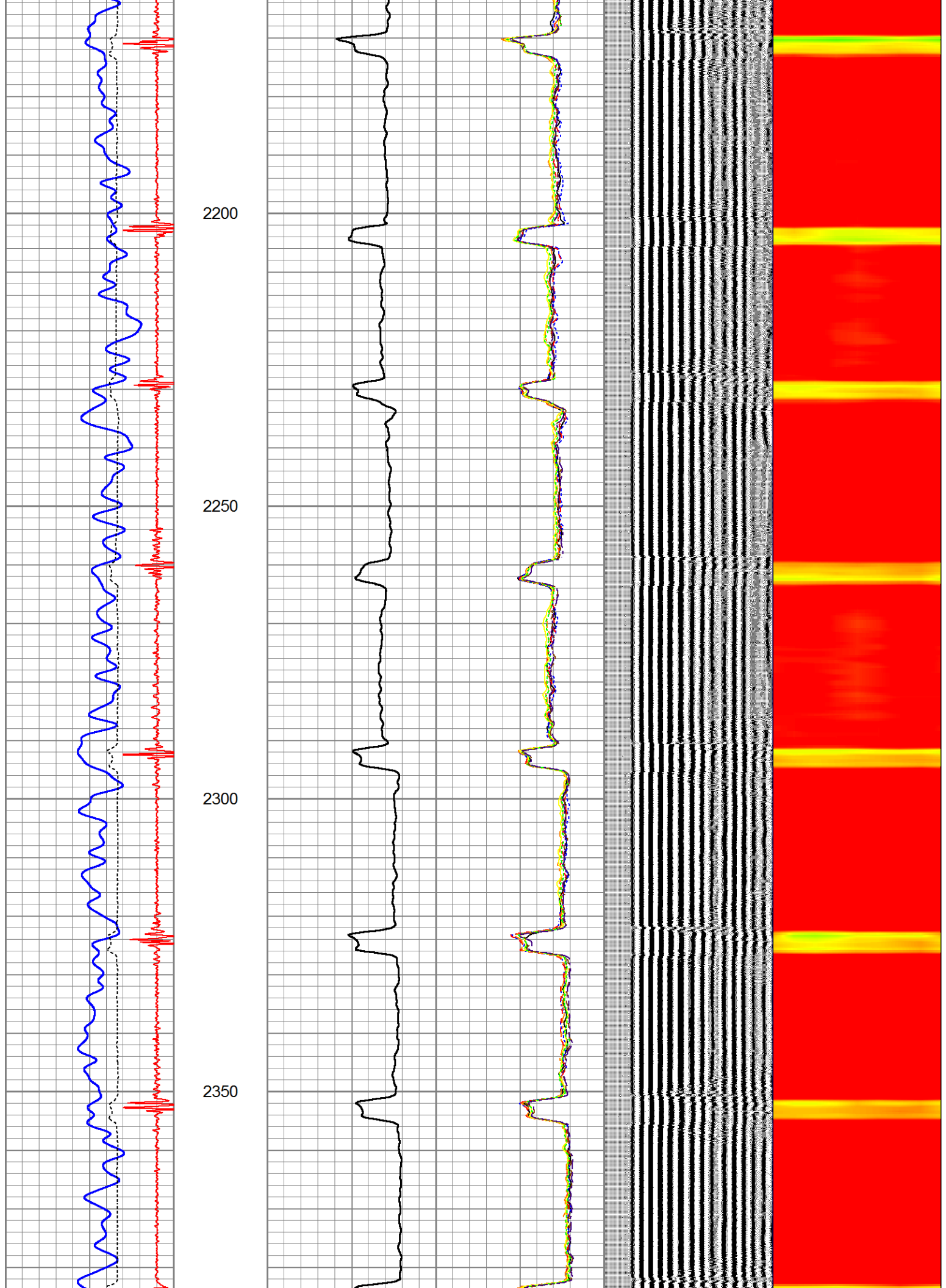




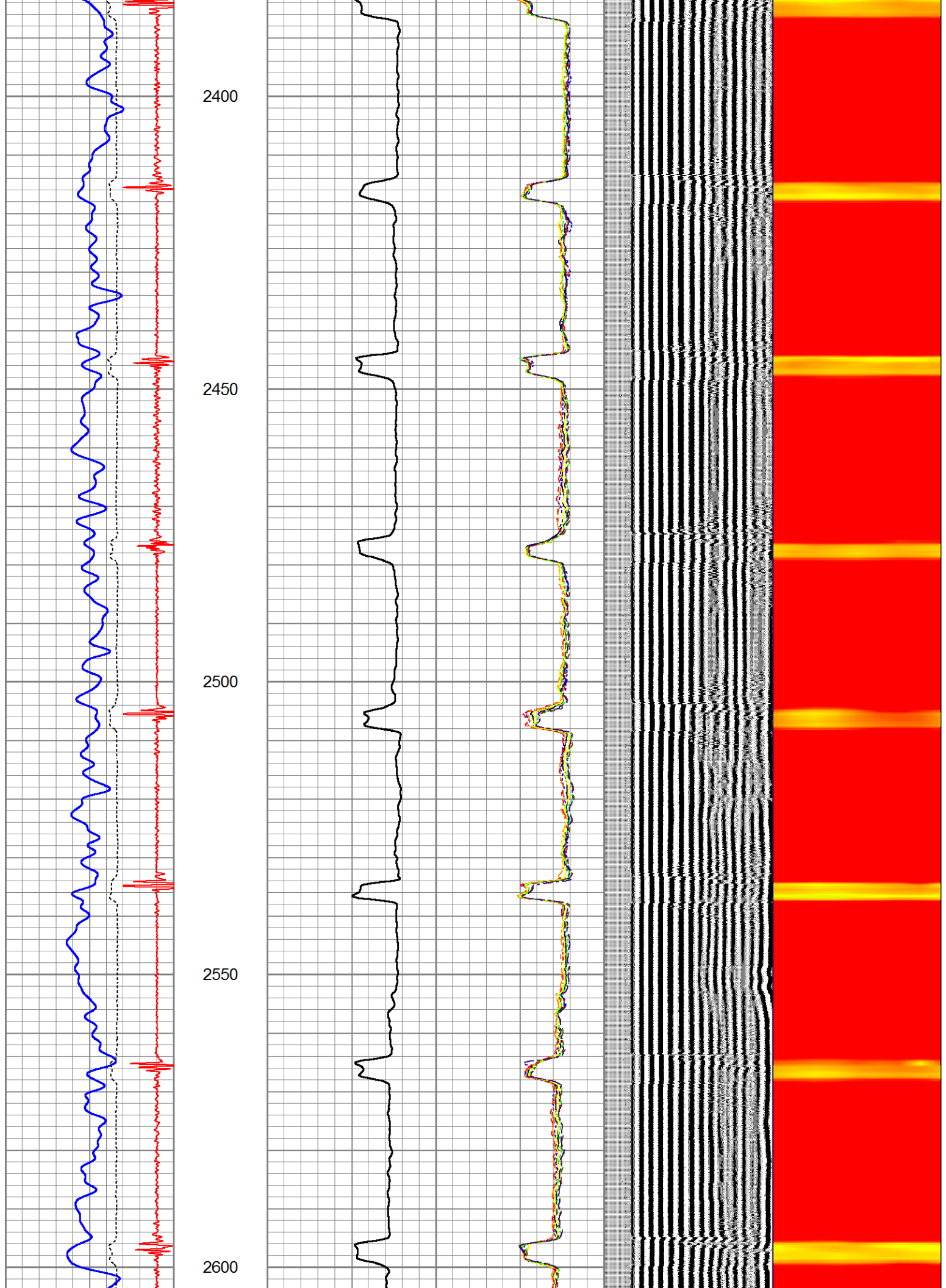


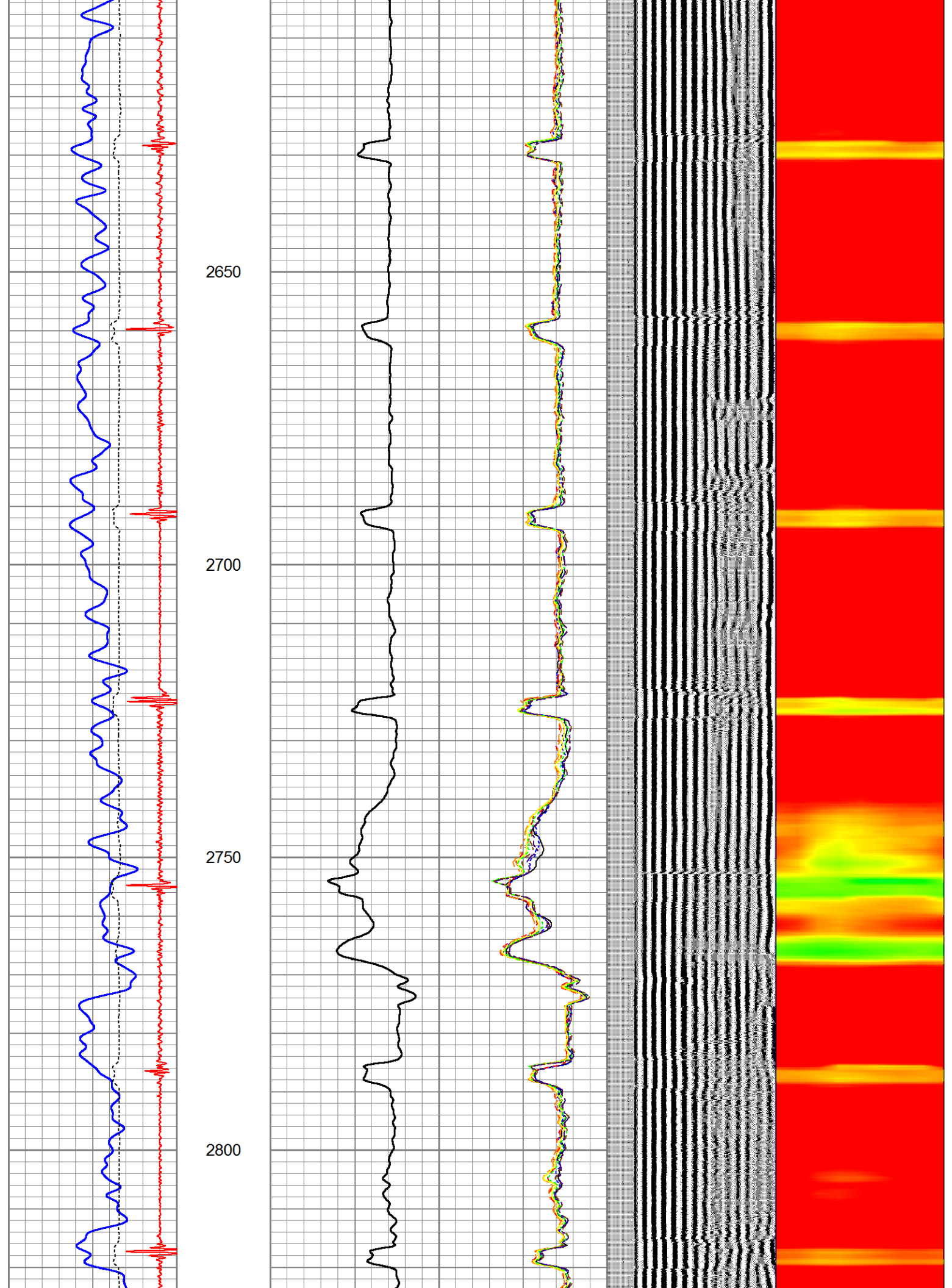




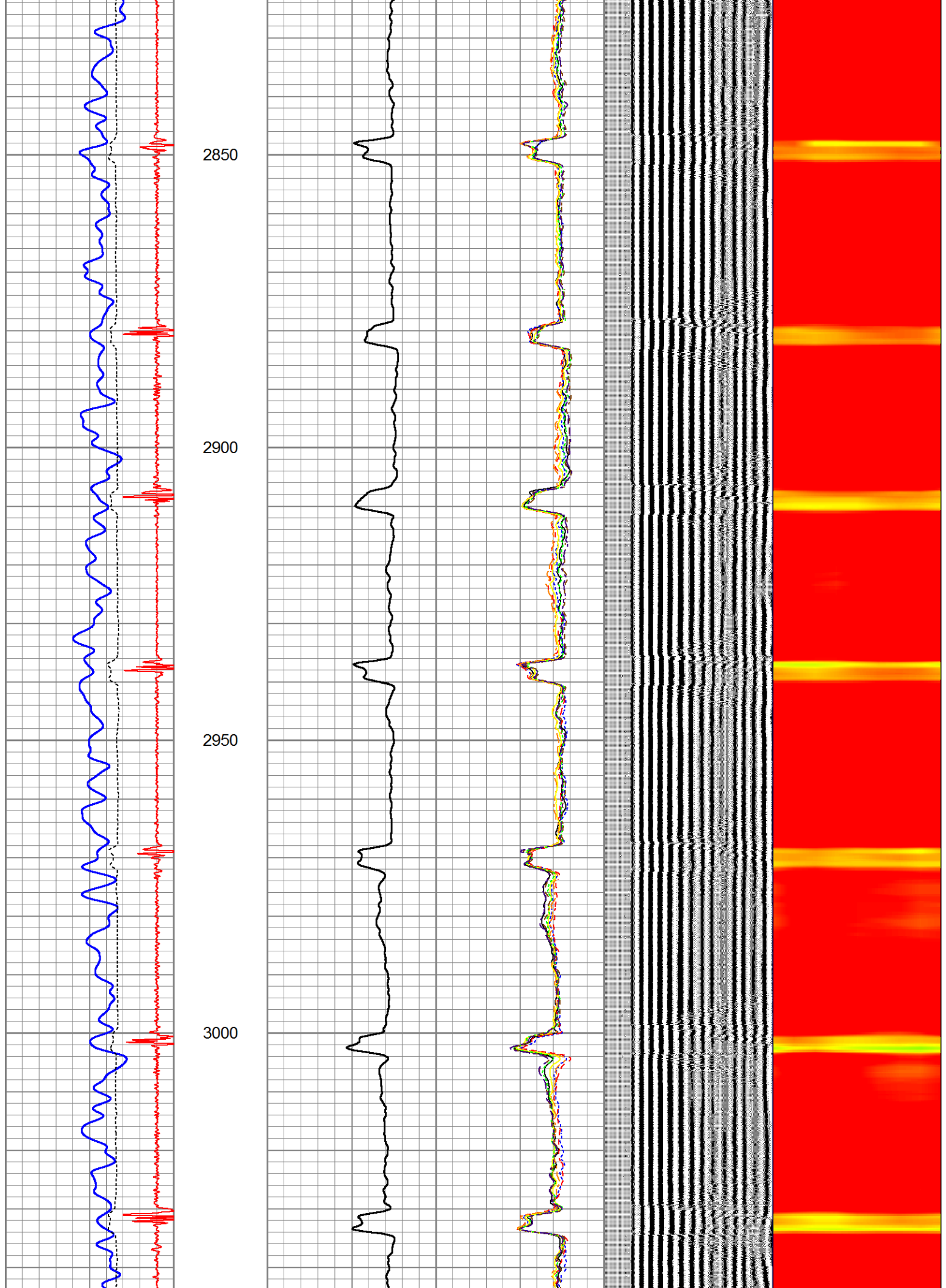


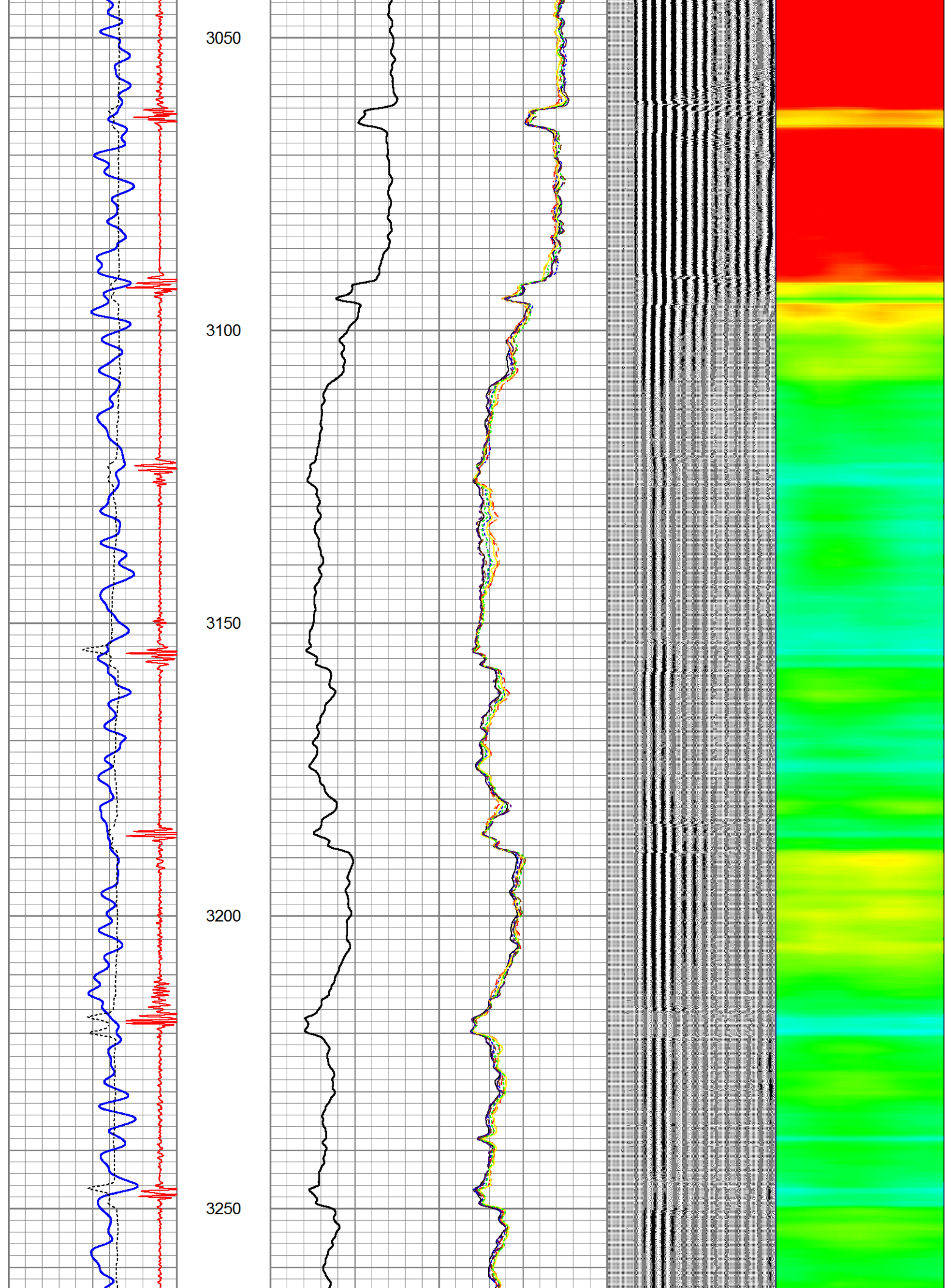




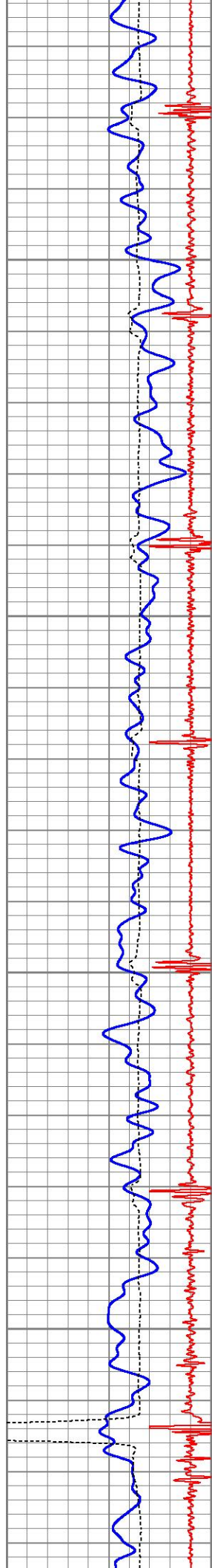










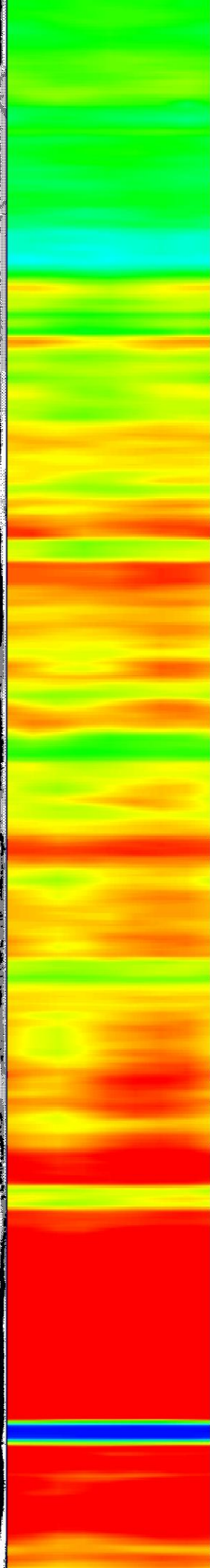
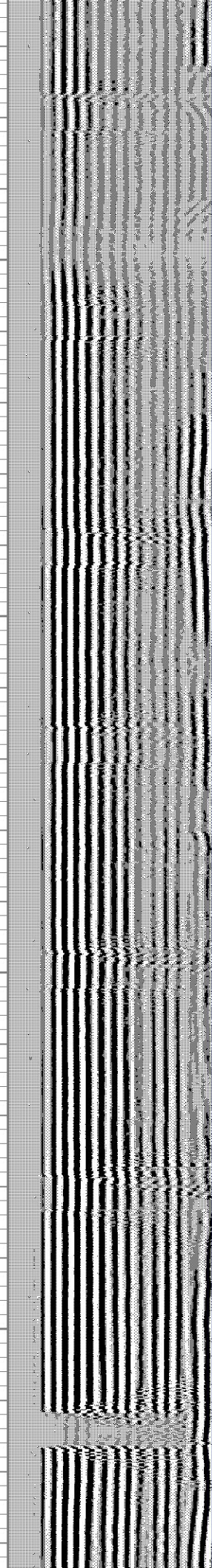
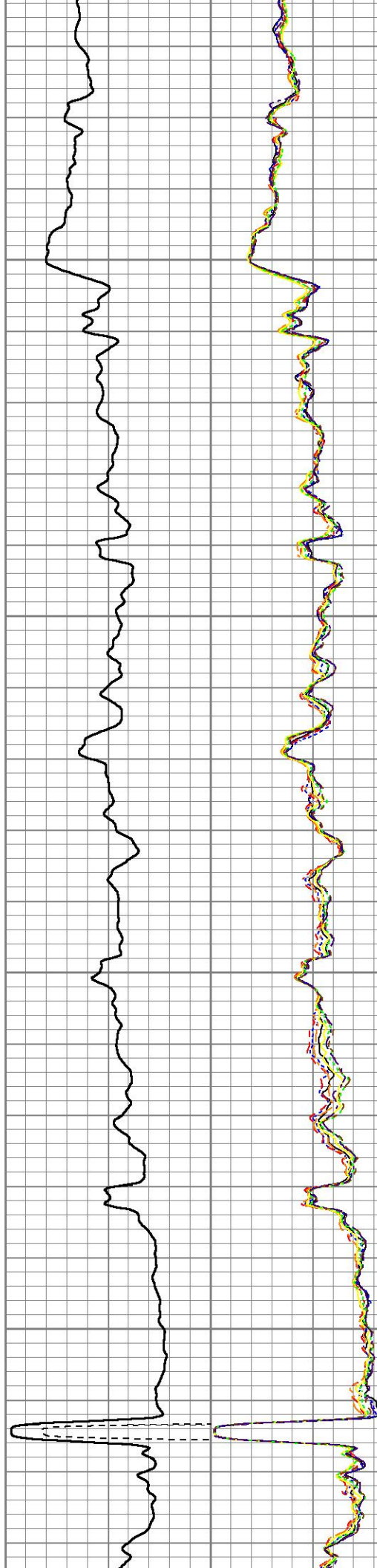


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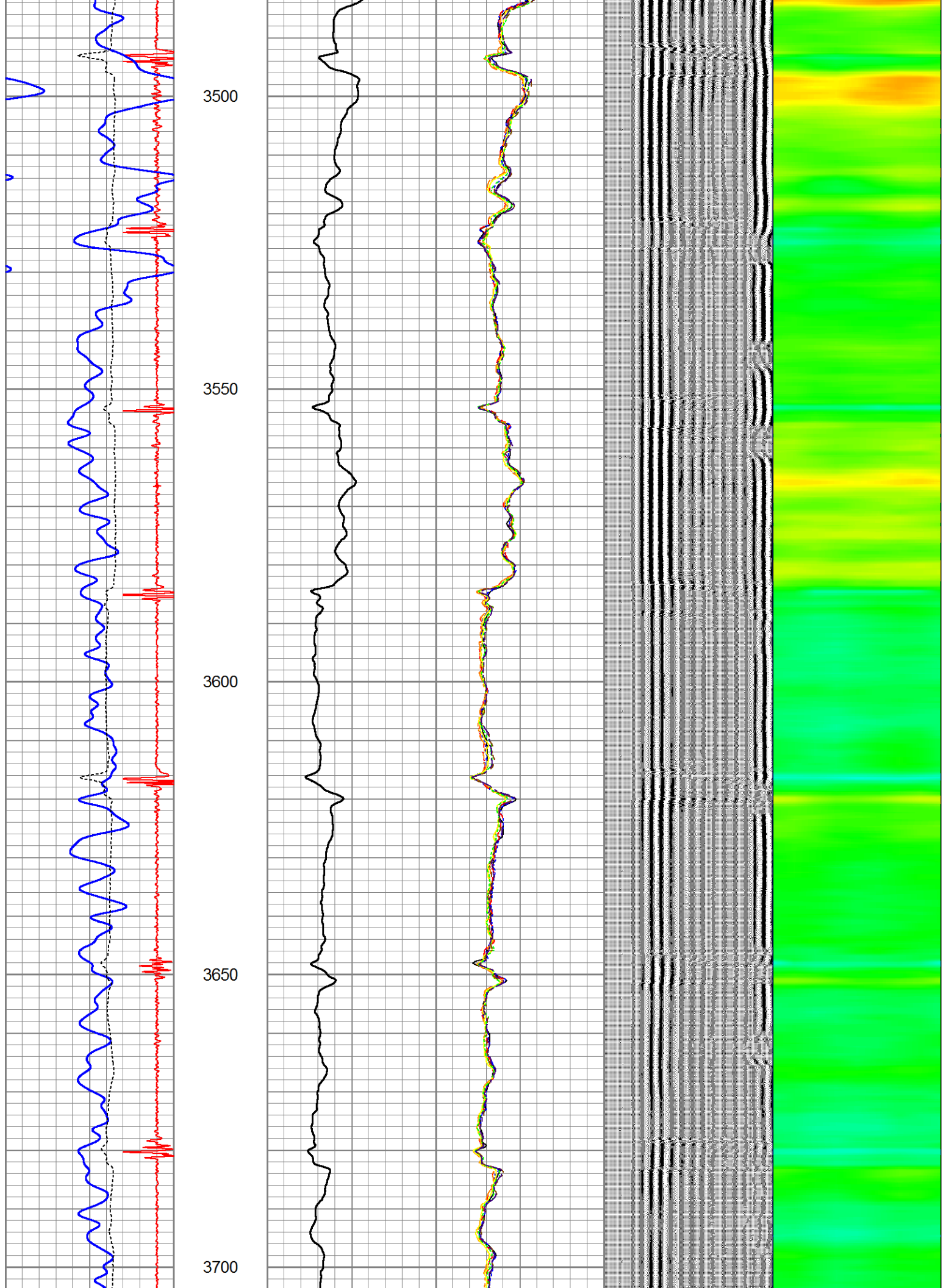
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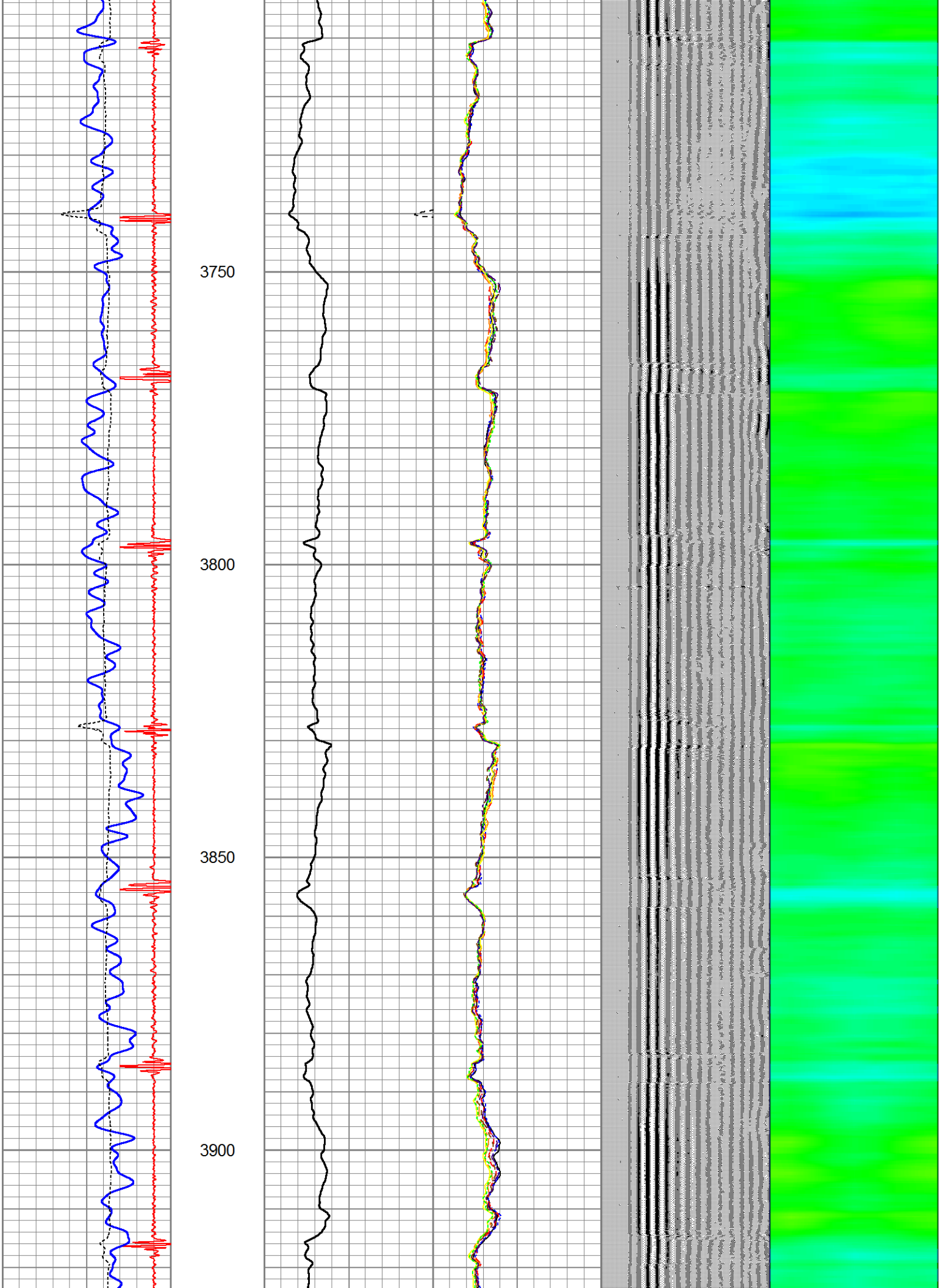
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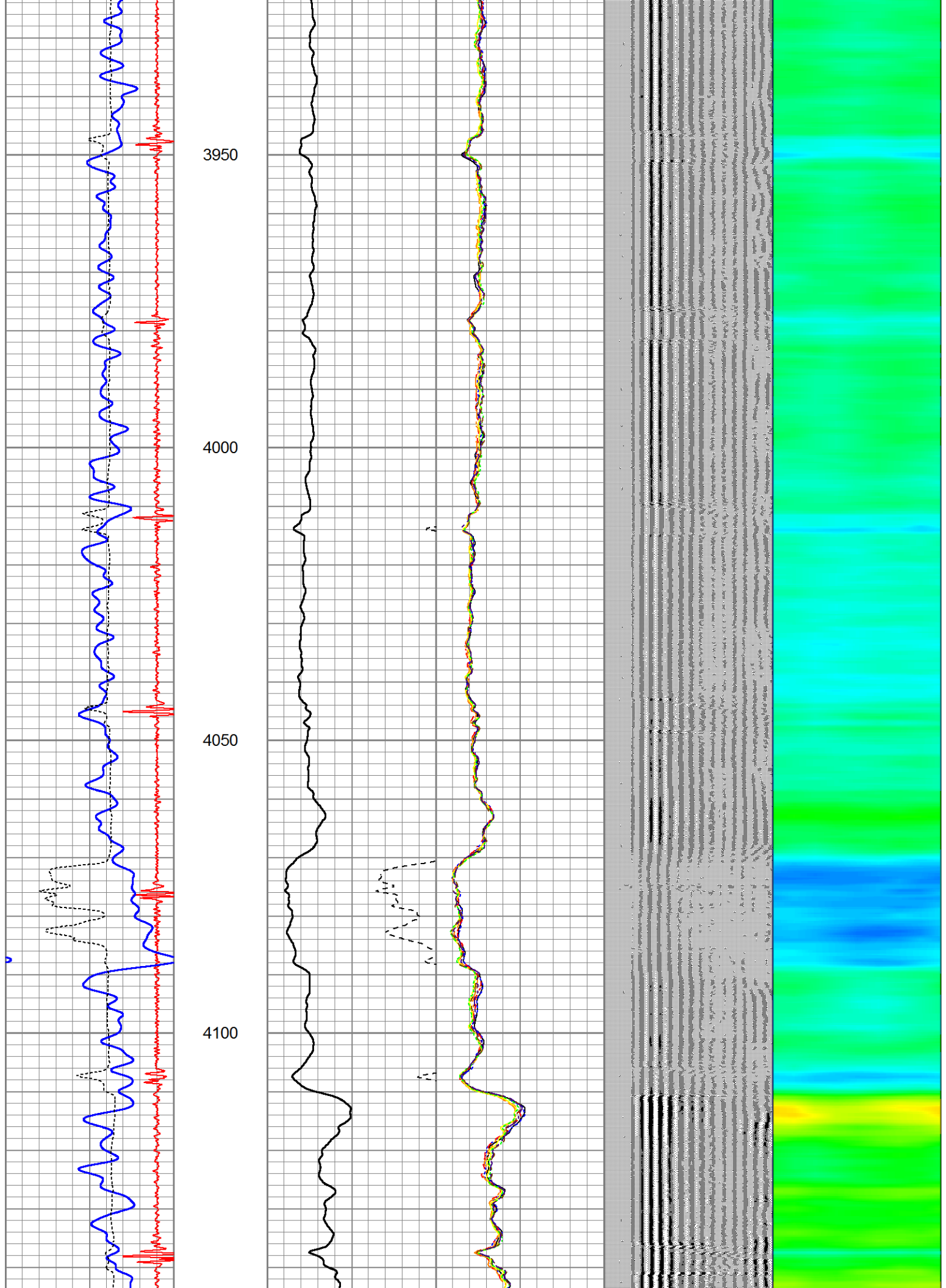




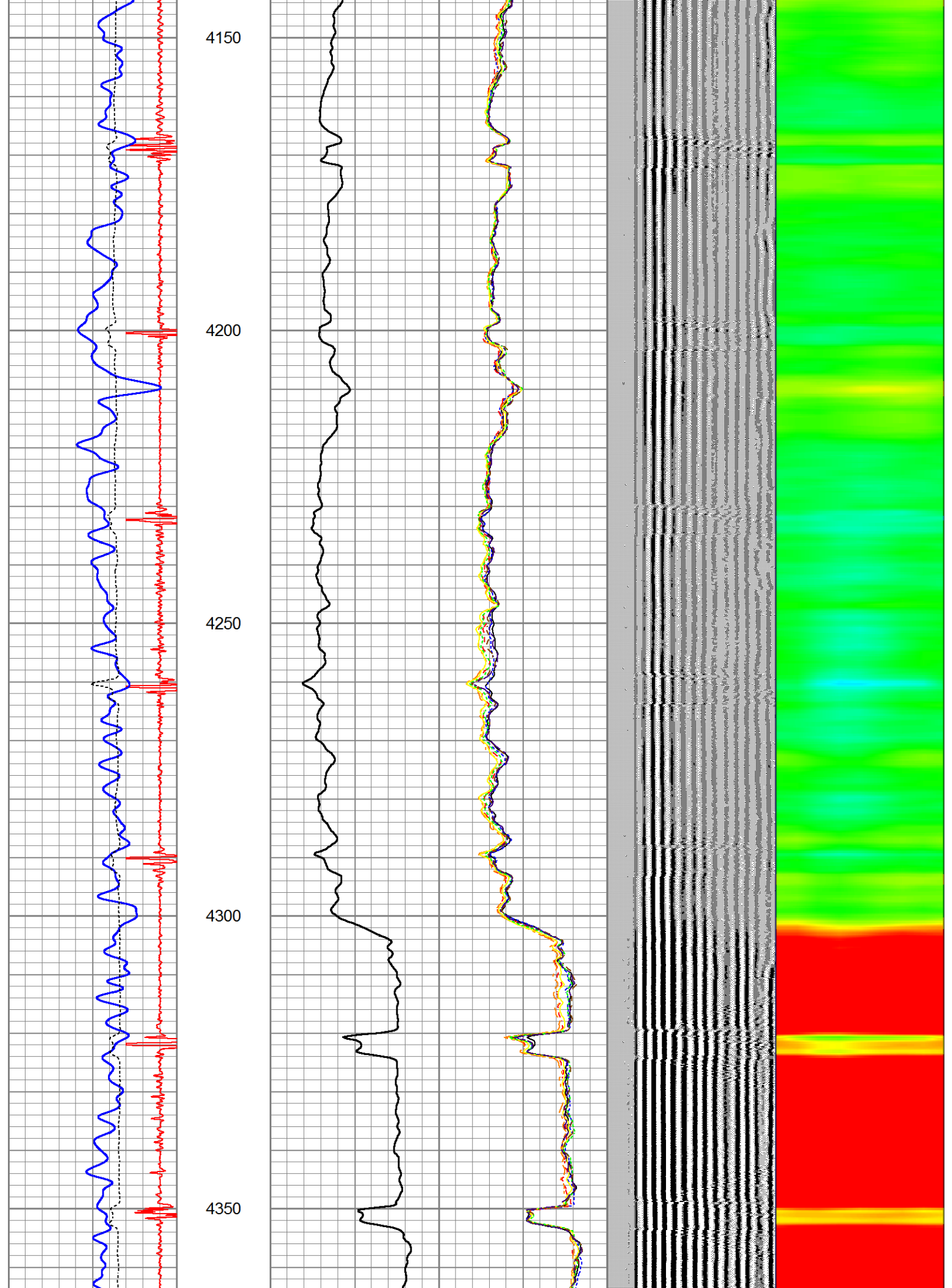


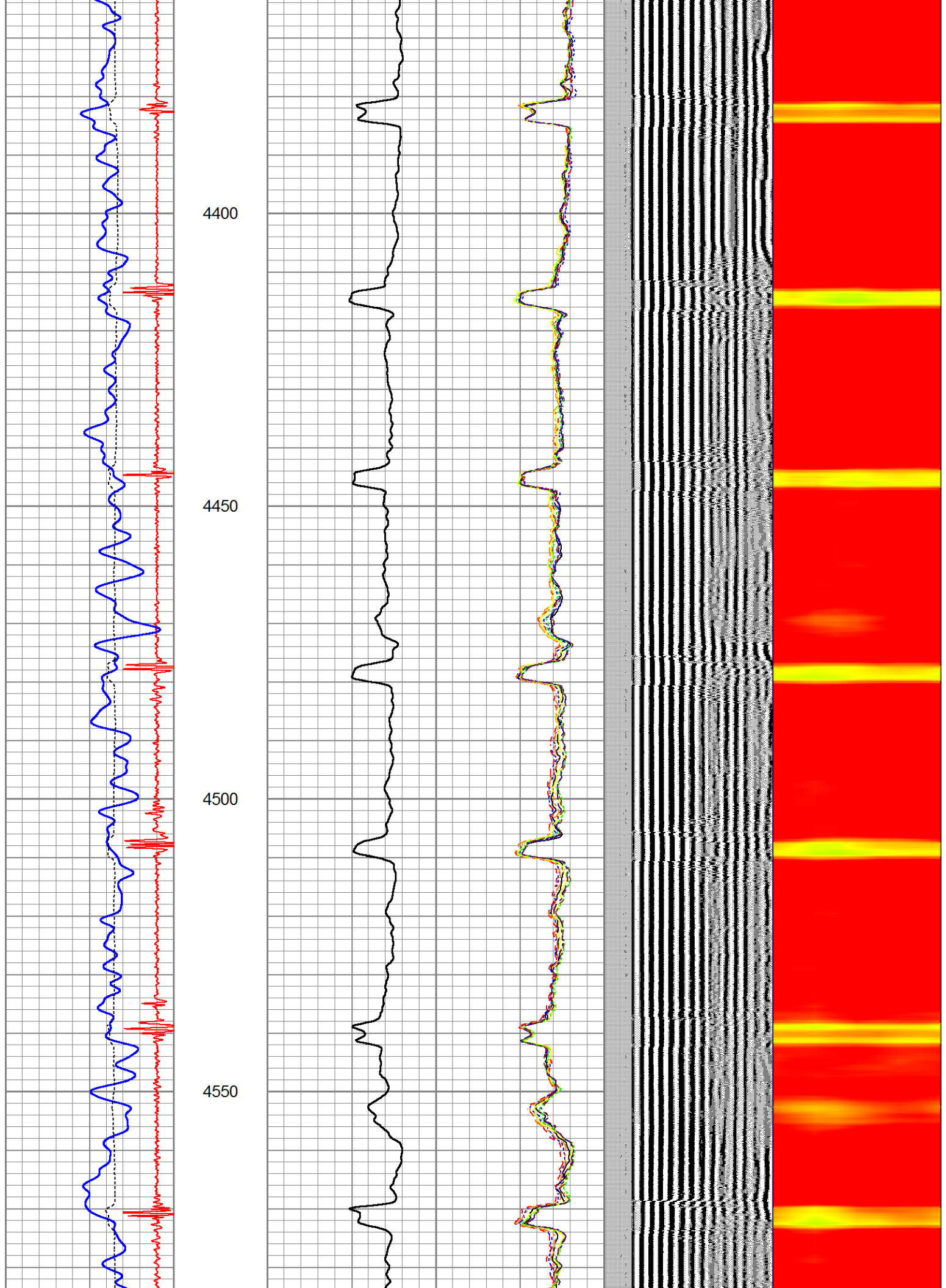




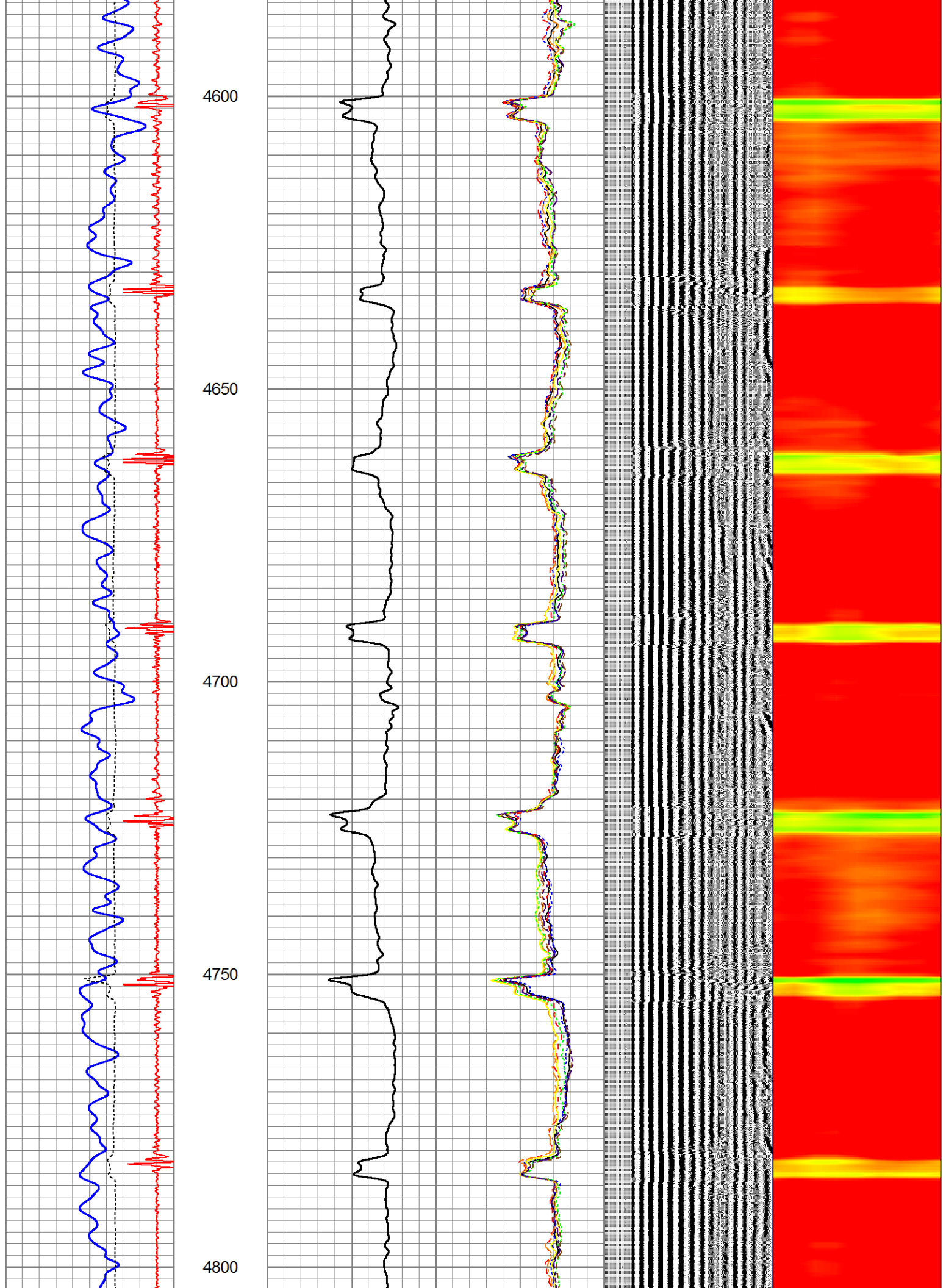


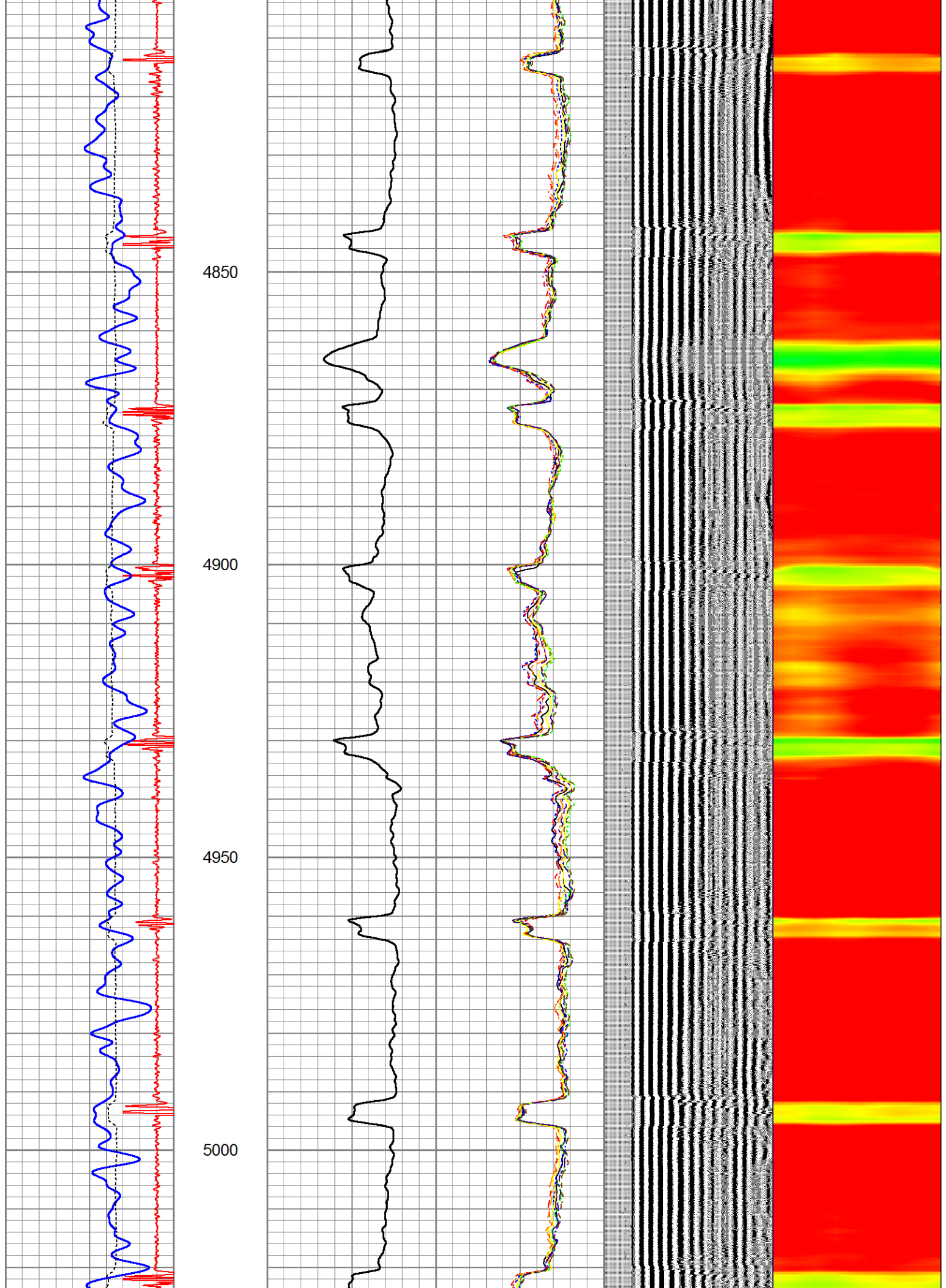




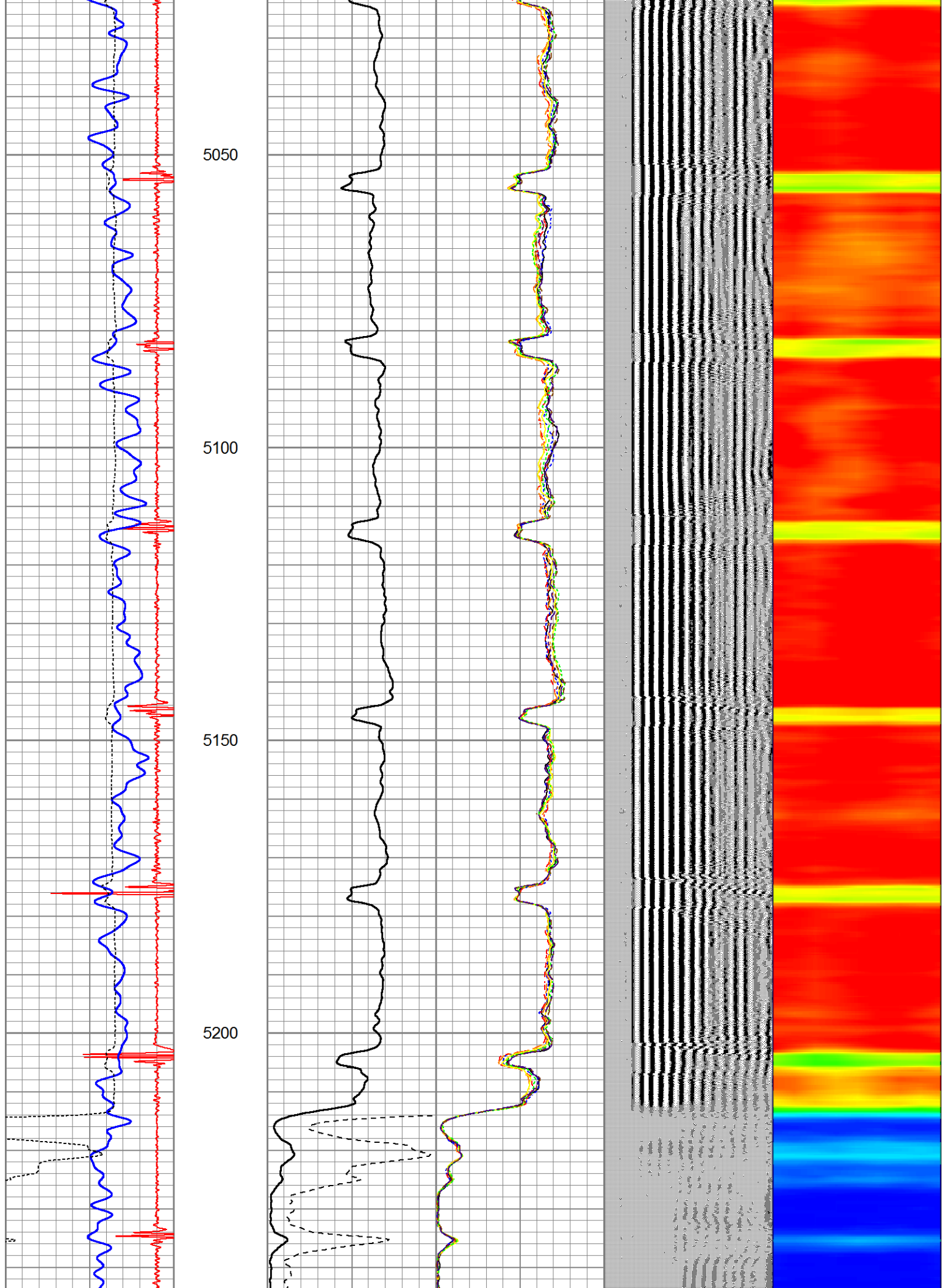


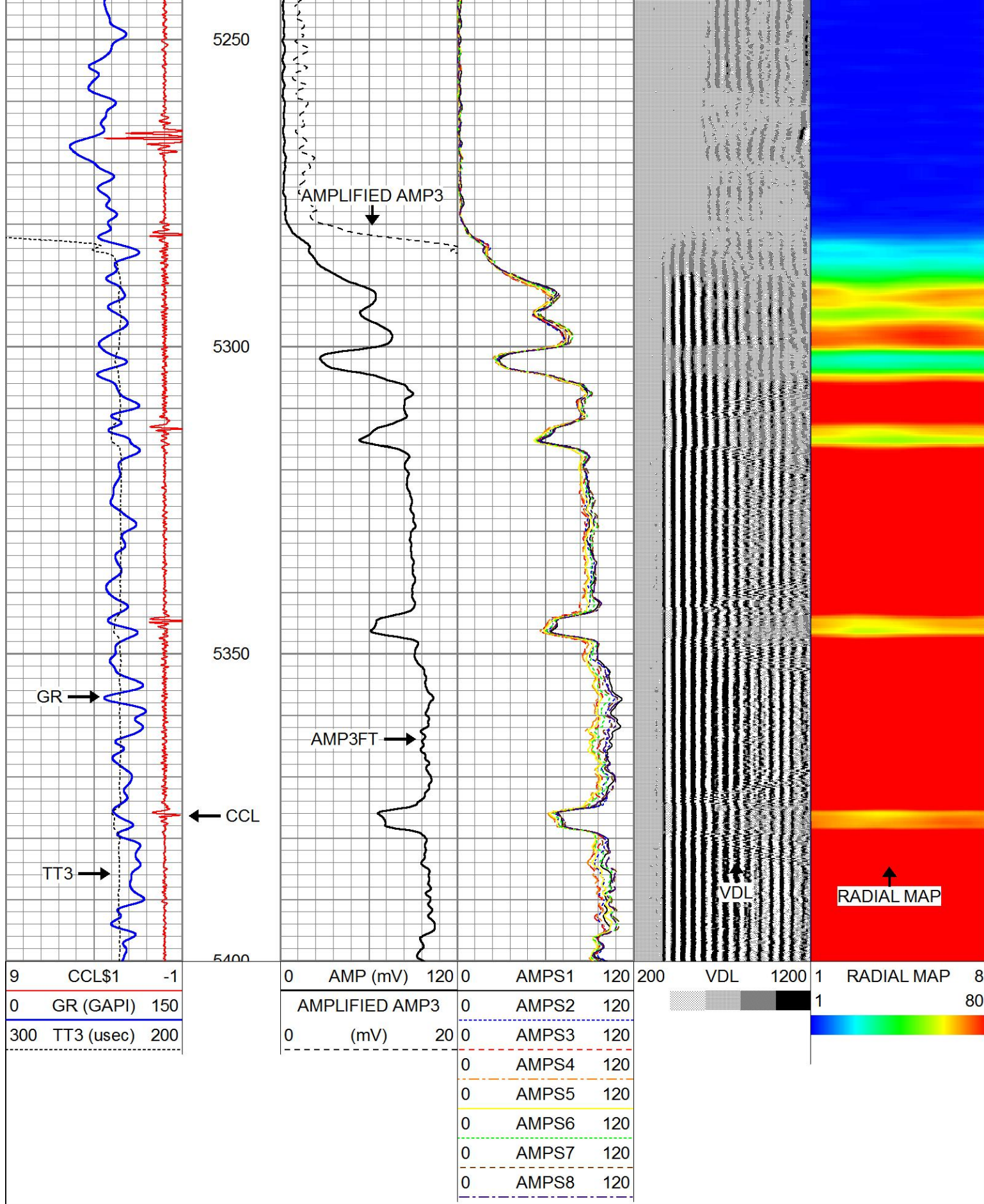












### Calibration Report

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	