

Company OCCIDENTAL PETROLEUM INC.
Well HSR KNOX 4-3
Field WATTENBERG
County WELD State COLORADO

Location NW/NW
5N 67W RNG 7
API# 05-123-19090
Permanent Datum KELLY BUSHING Elevation 4822'
Log Measured From KELLY BUSHING (10' A.G.L.)
Drilling Measured From KELLY BUSHING
Other Services NONE
Elevation K.B. 4832'
D.F. N/A
G.L. 4822'

Date	15 MARCH, 2023
Run Number	ONE
Depth Driller	7288'
Depth Logger	6715'
Bottom Logged Interval	6713'
Top Log Interval	SURFACE
Casing Size	4.5"
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	EST CEM 6300'
Time Well Ready	7:30 AM
Time Logger on Bottom	8:20AM
Equipment Number	200128
Location	STERLING, CO
Recorded By	ADAM GARDNER
Witnessed By	TRAVIS ROTHIE

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size			Wgt/Ft	Top		Bottom
Surface String	8.625"			24#	0'		620'
Prot. String							
Production String	4.5"			11.6#	0'		7275'
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

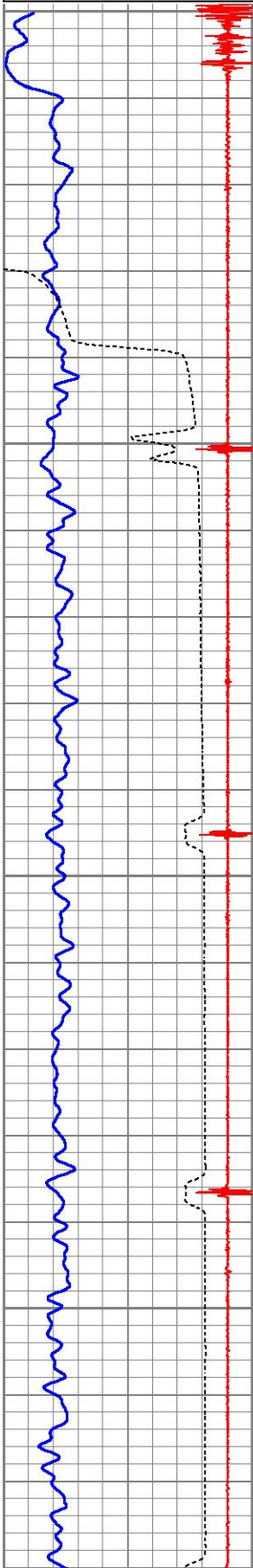
LOG NOT CORRELATED!
LOG RAN WITH 10' K.B.
EST CEM @ 6300'

50	CCL	-5.5
0	GR (GAPI)	150
340	TT3 (usec)	245

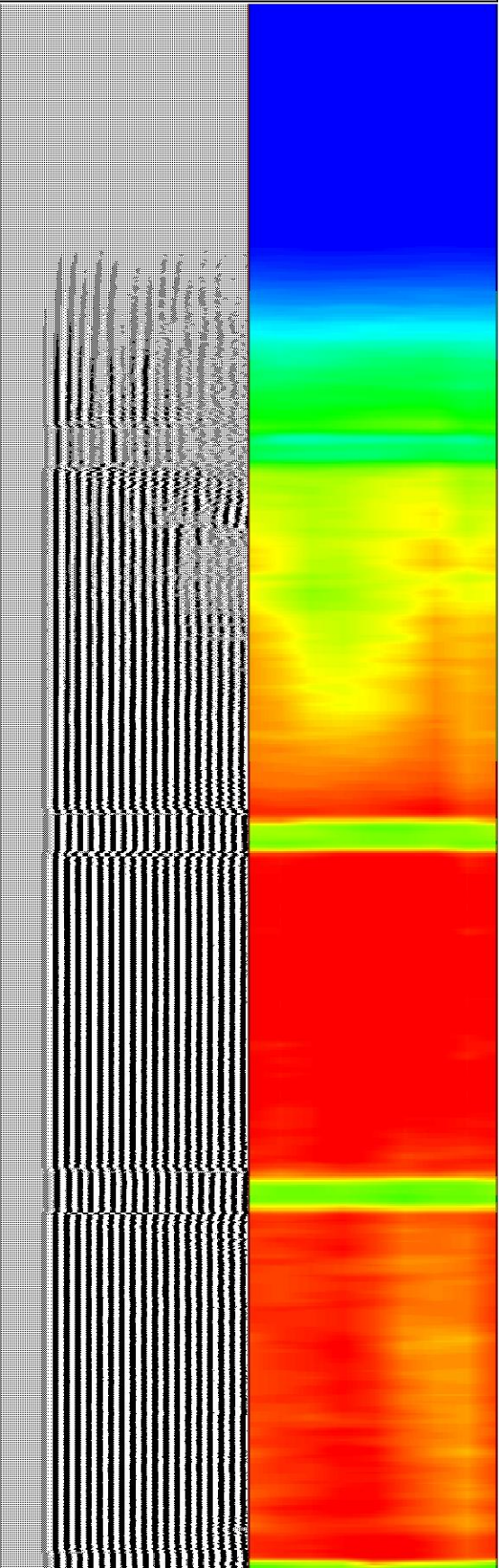
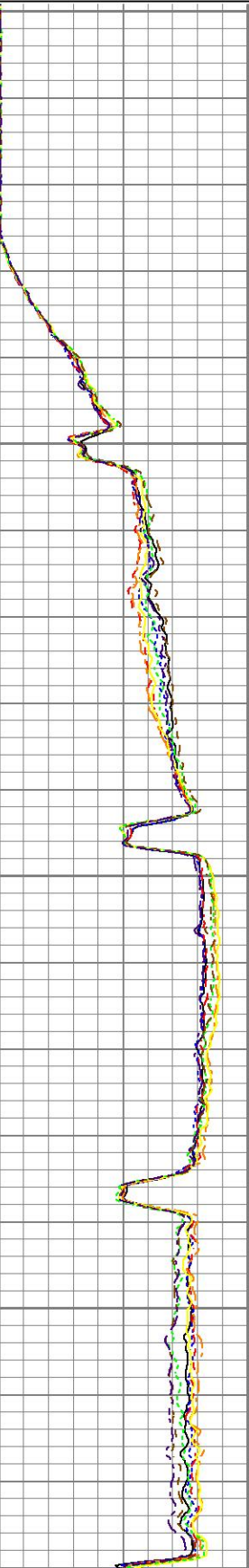
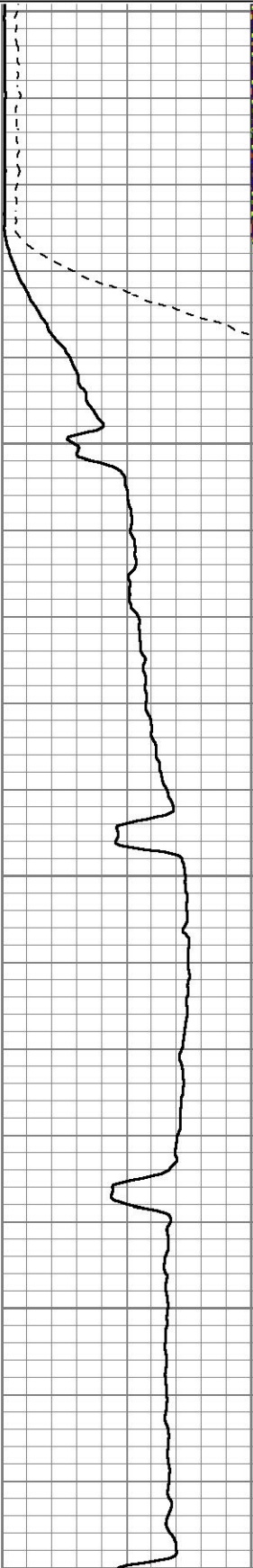
0	AMP (mV)	100
	AMPLIFIED AMP3	
0	(mV)	20

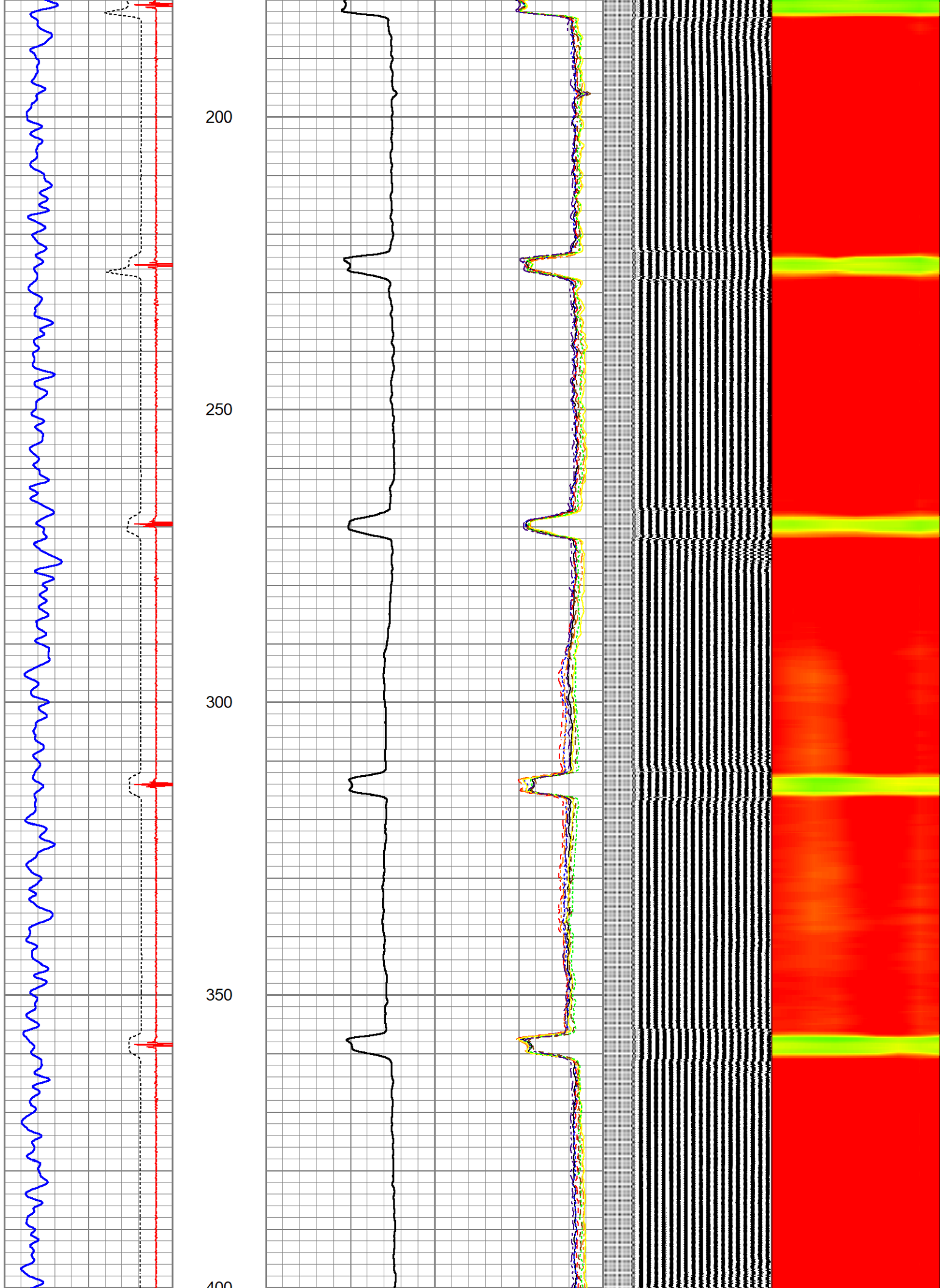
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0	AMPS2	100
0	AMPS3	100
0	AMPS4	100
0	AMPS5	100
0	AMPS6	100
0	AMPS7	100
0	AMPS8	100

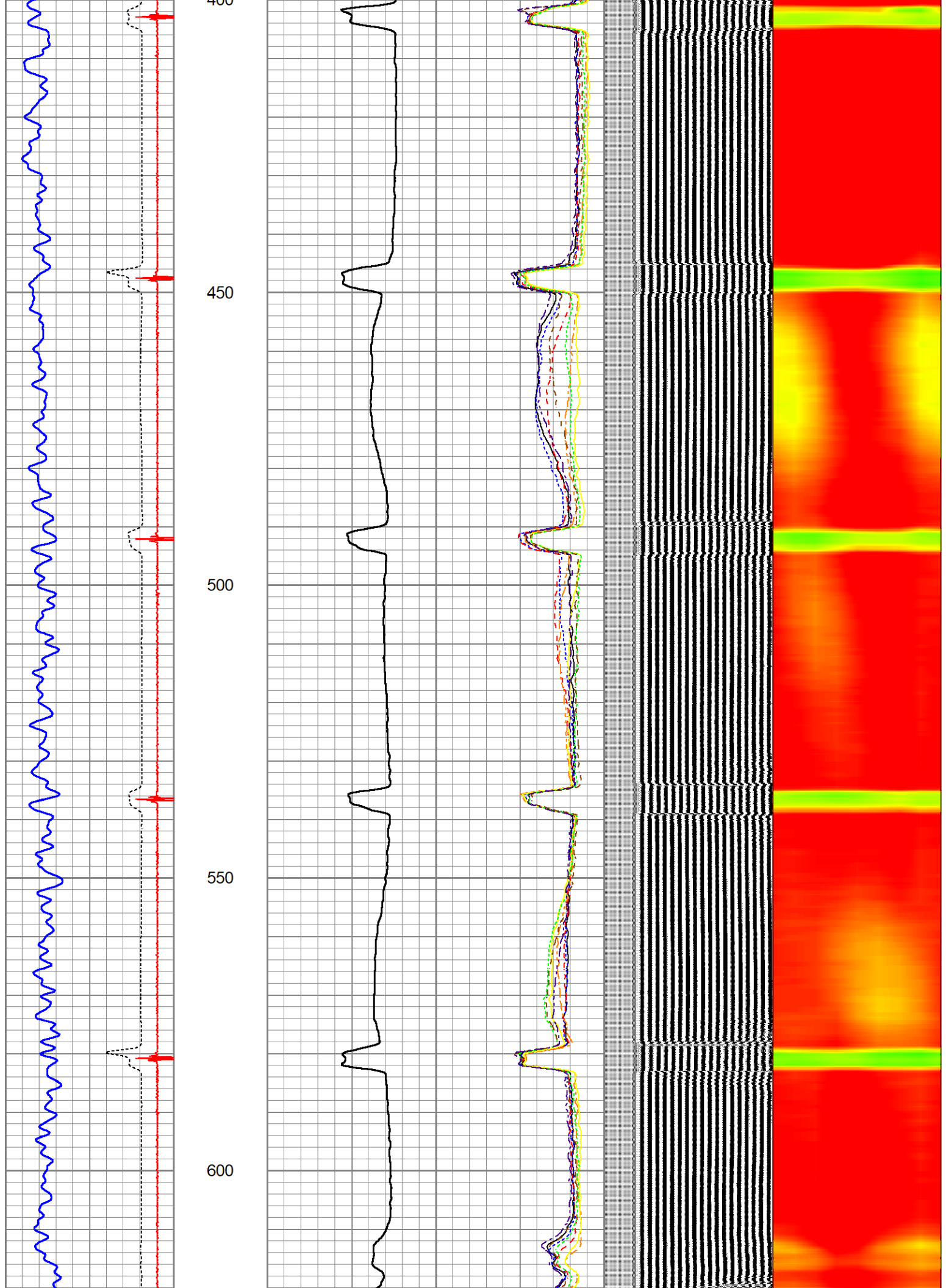
200	VDL (usec)	1200	1	RADIAL MAP	8
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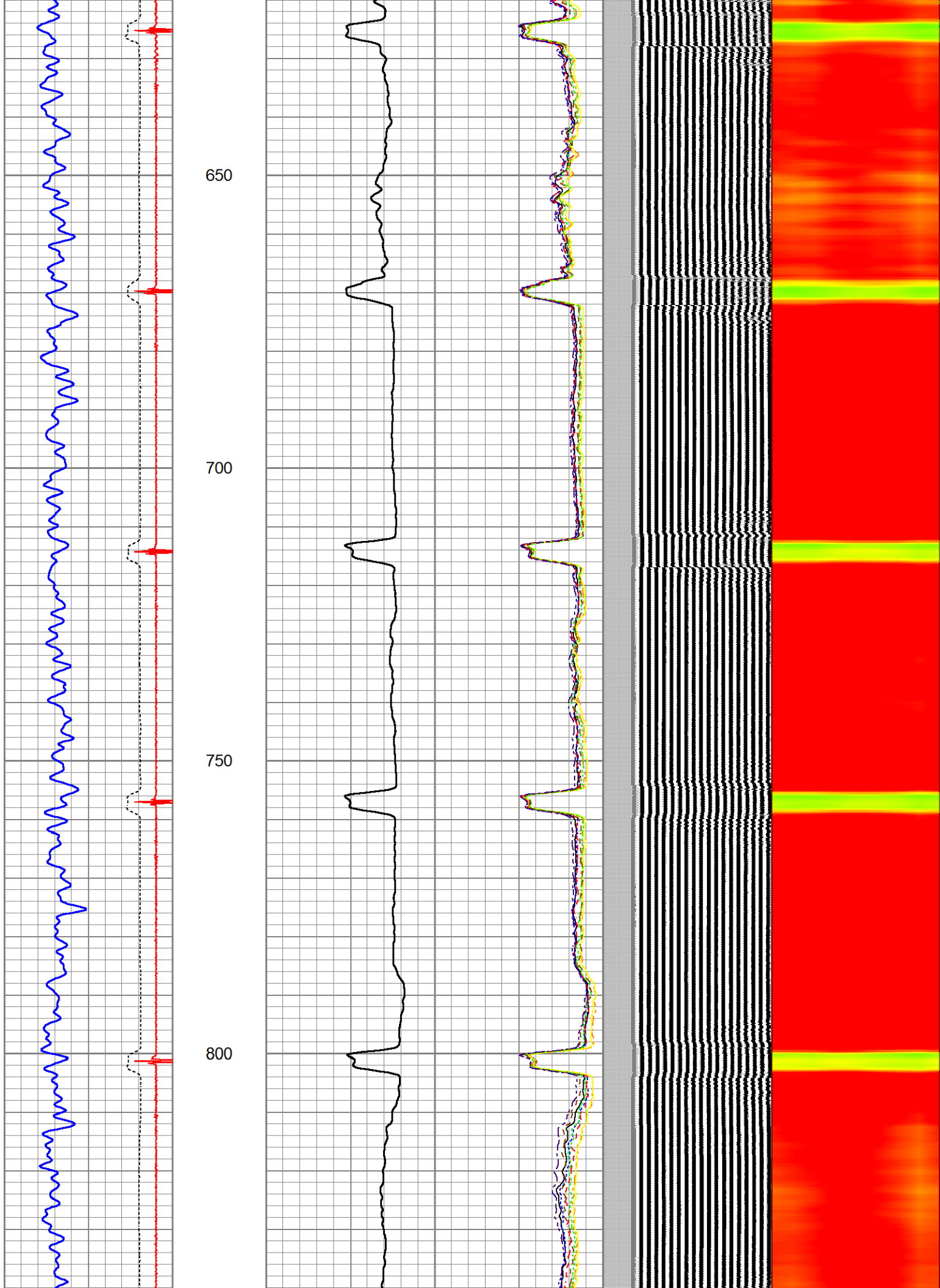


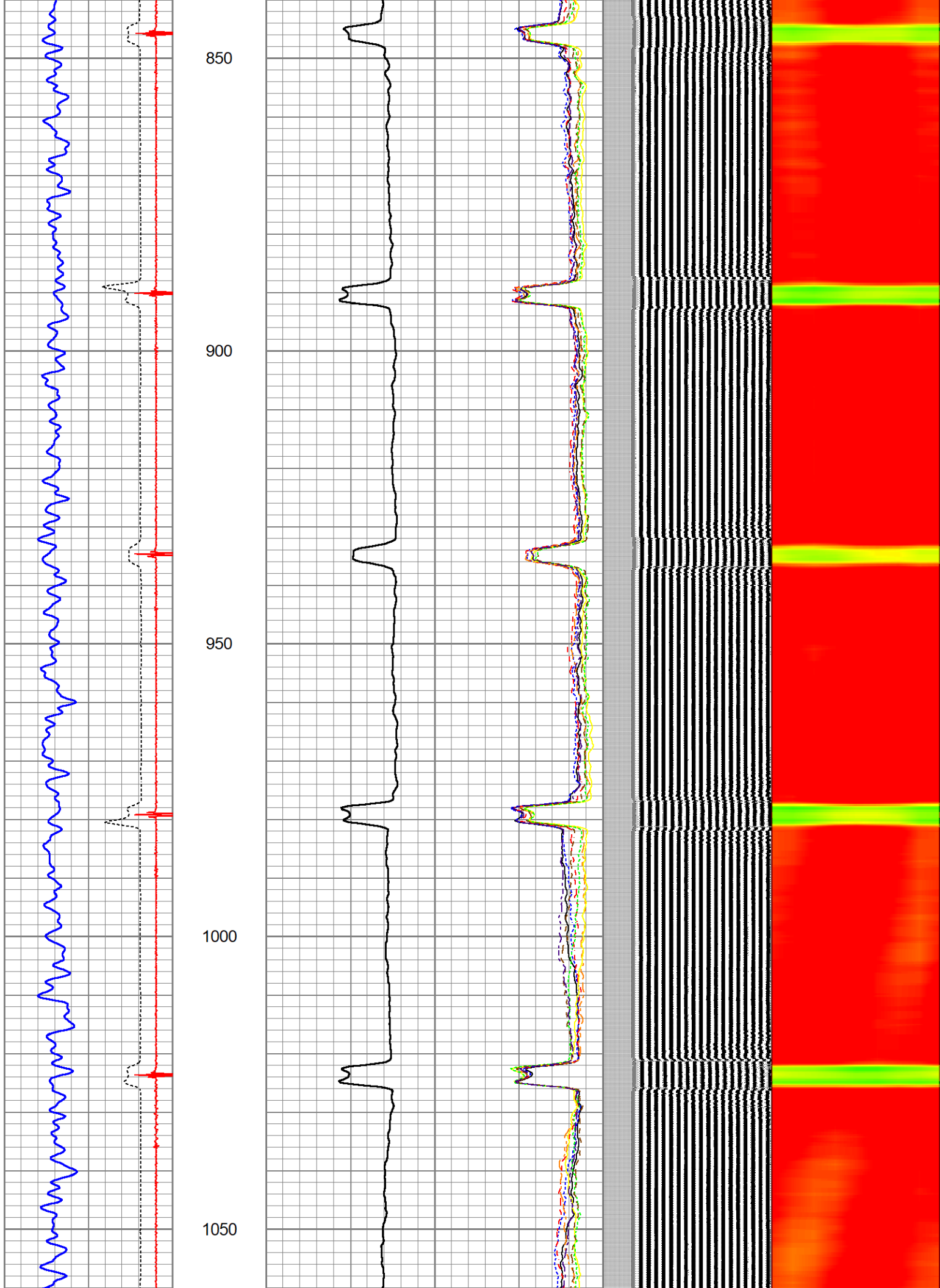
0
50
100
150

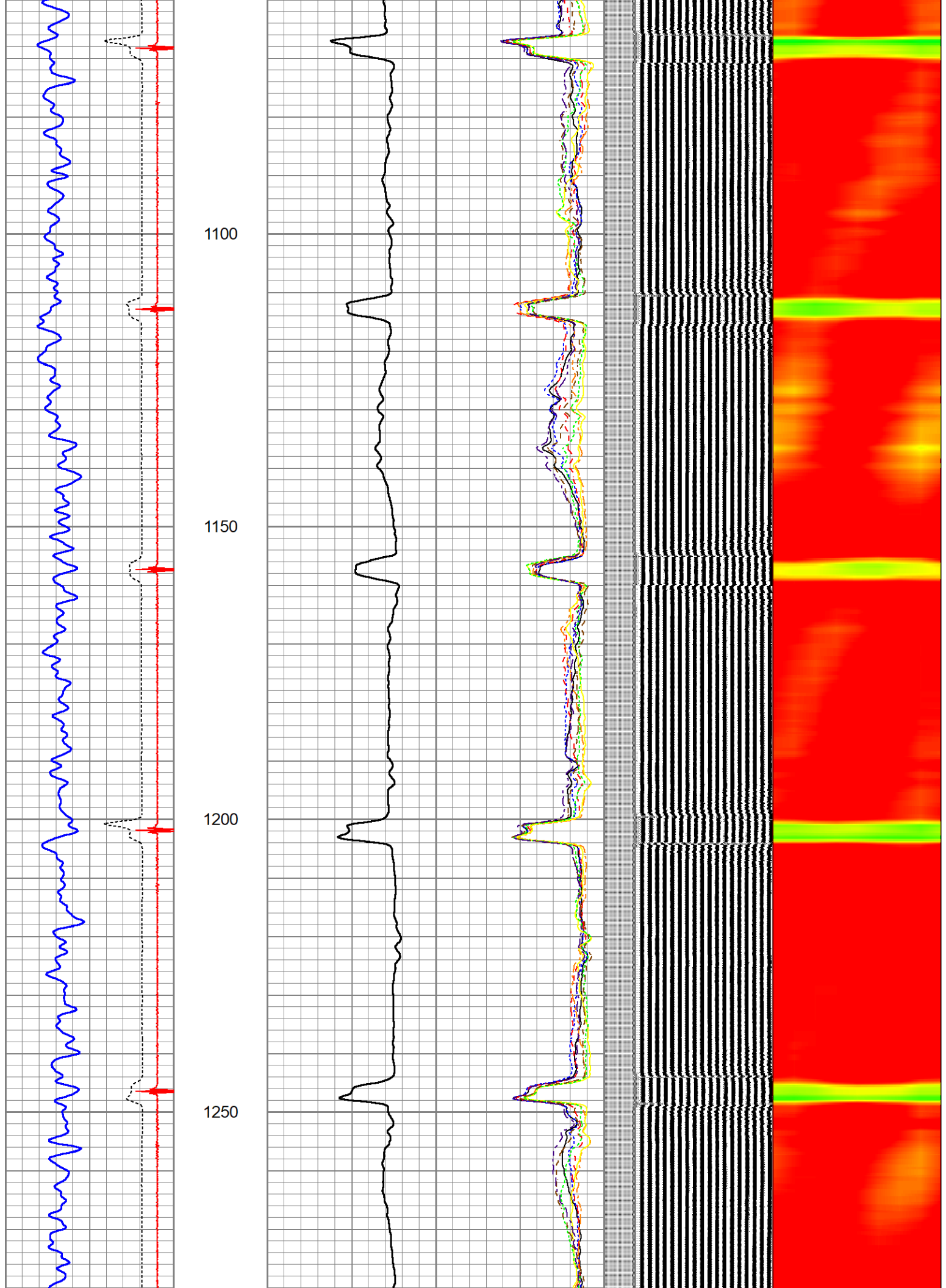


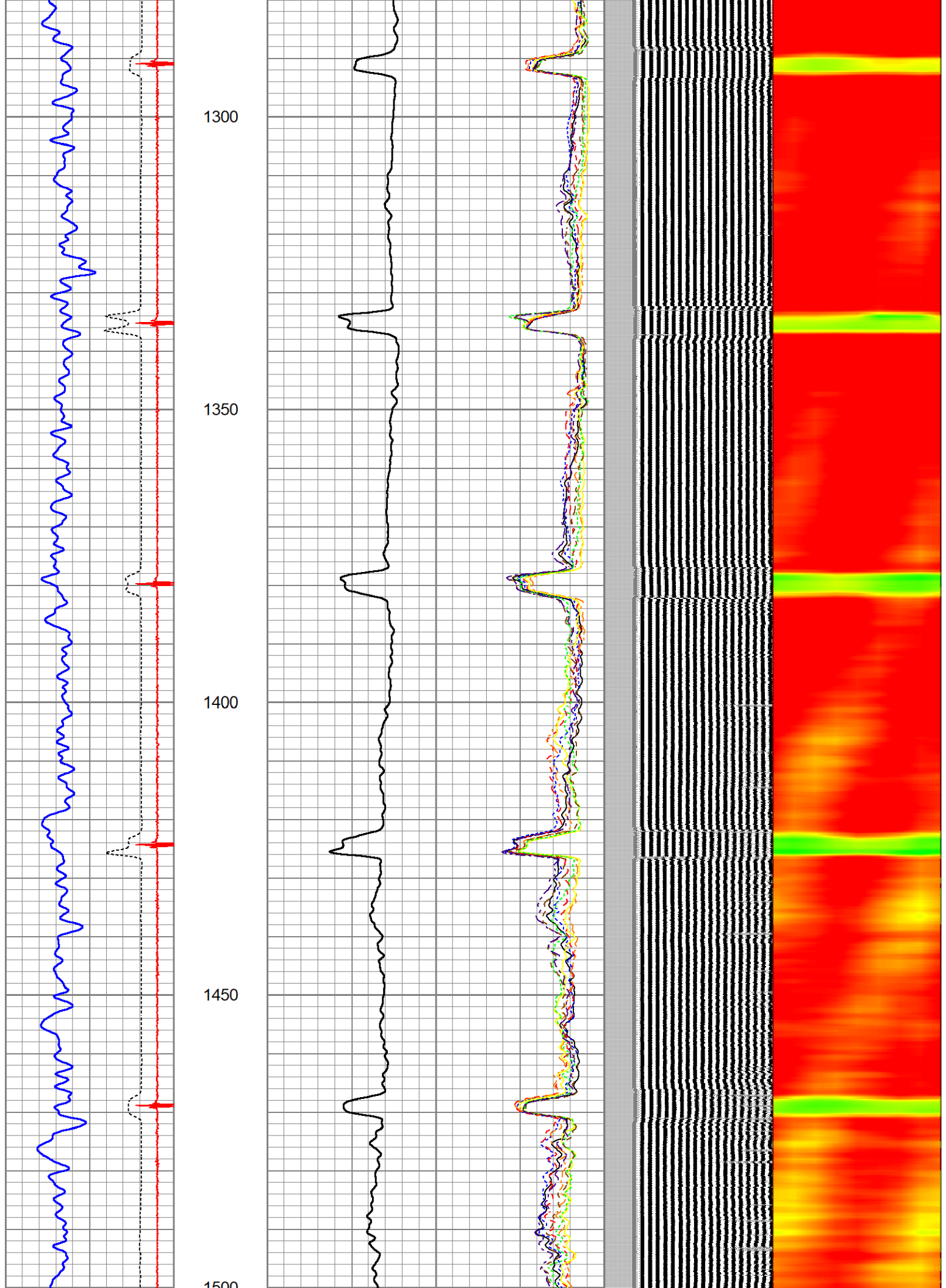


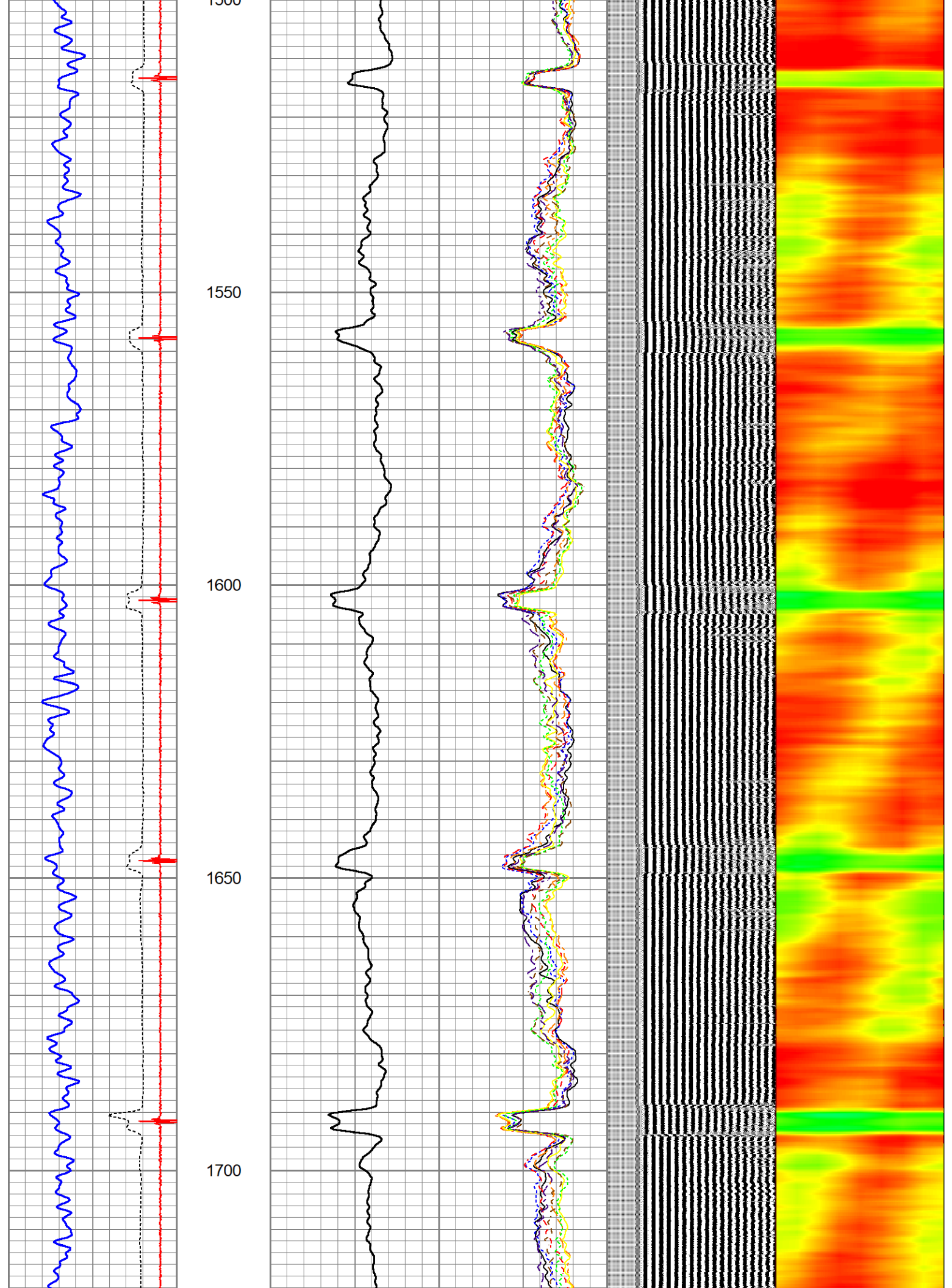


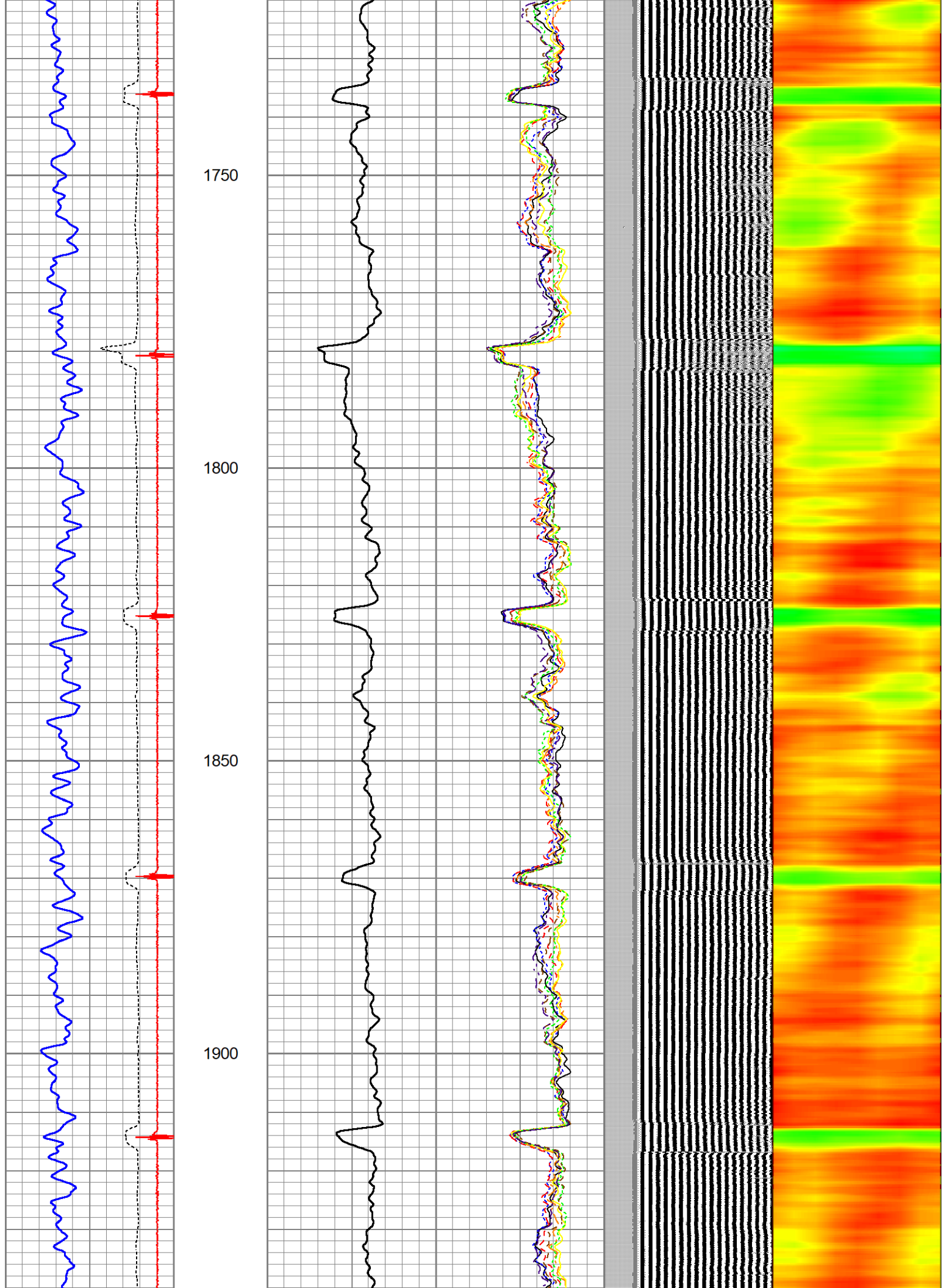


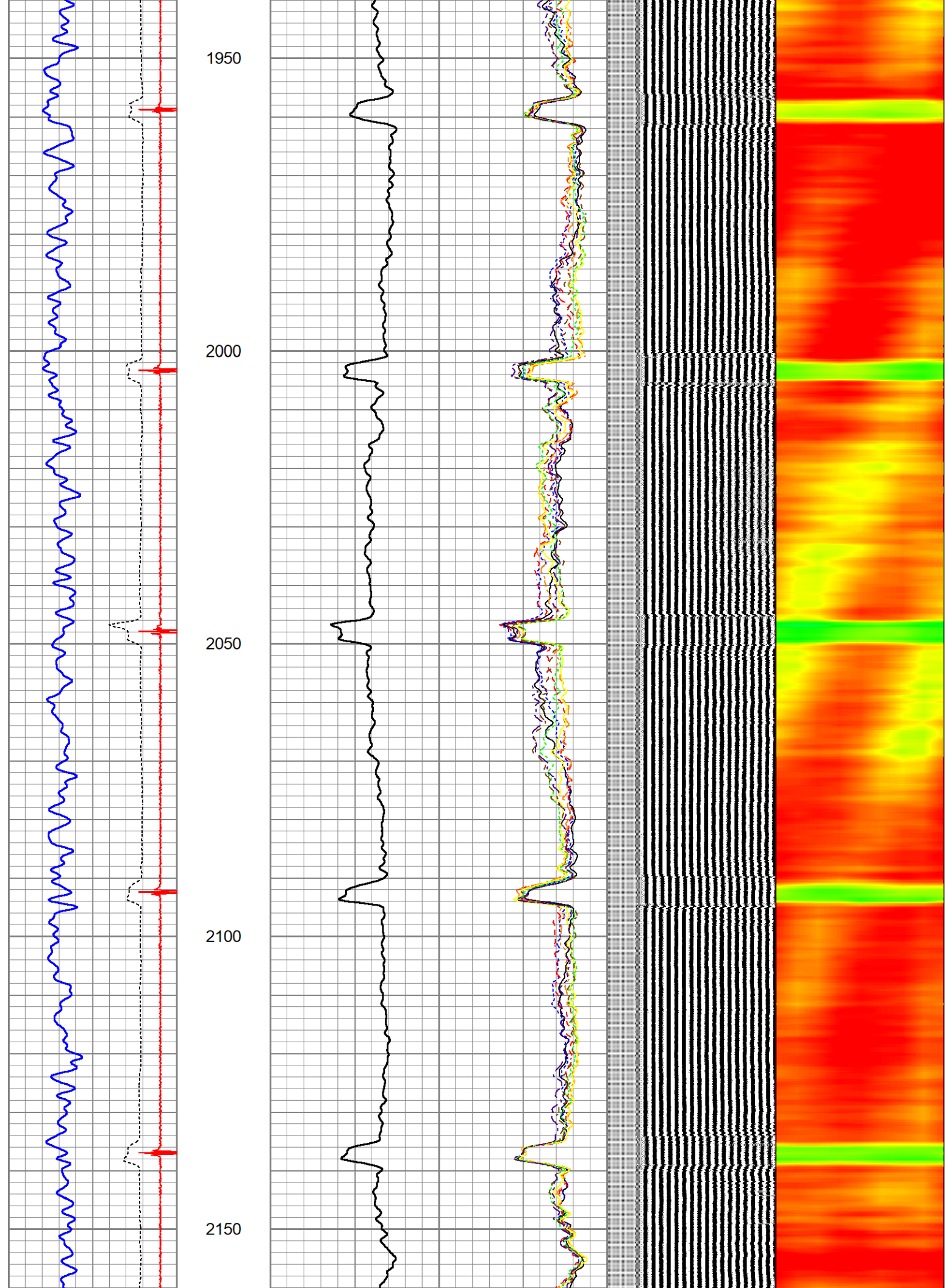


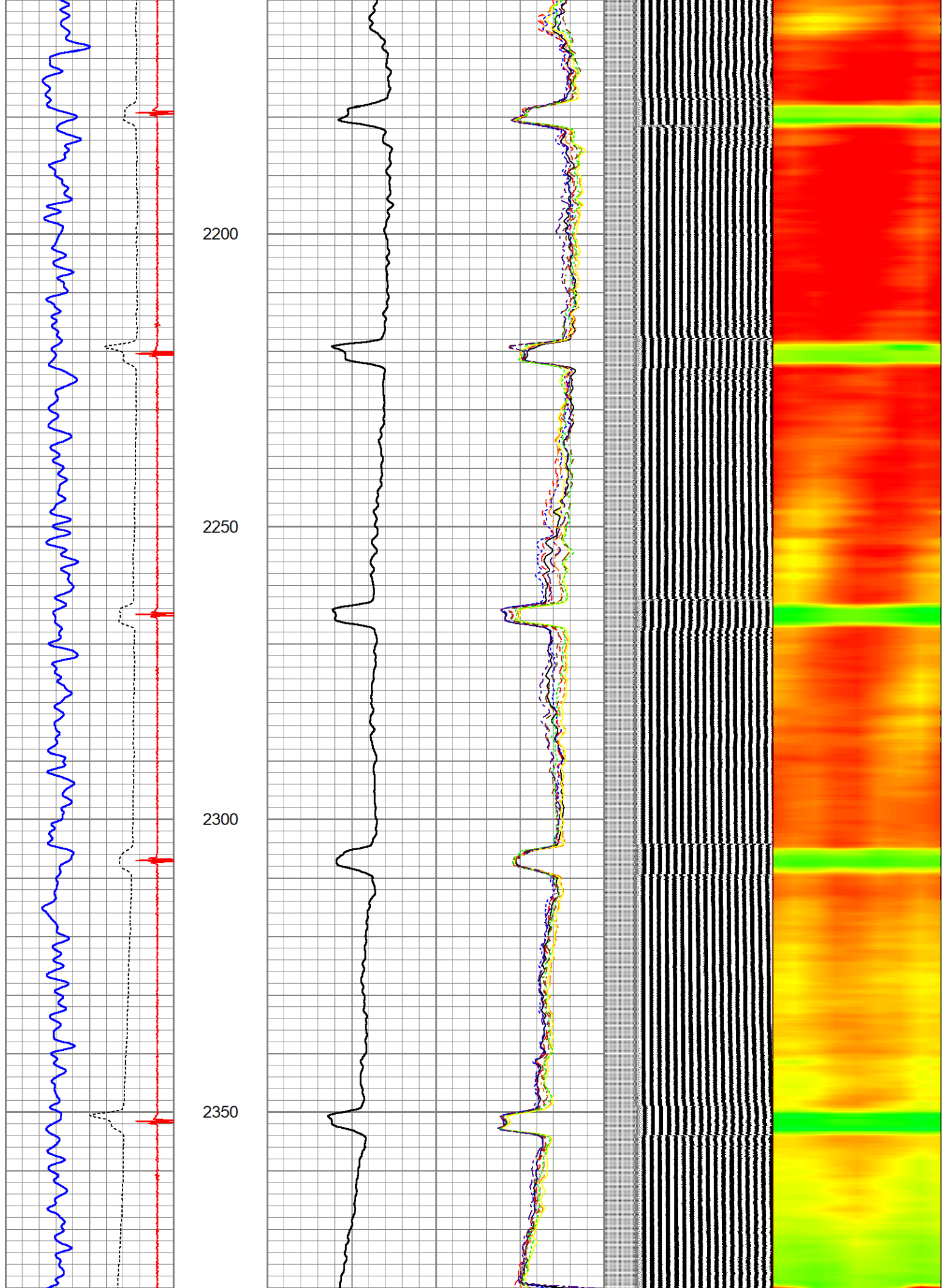


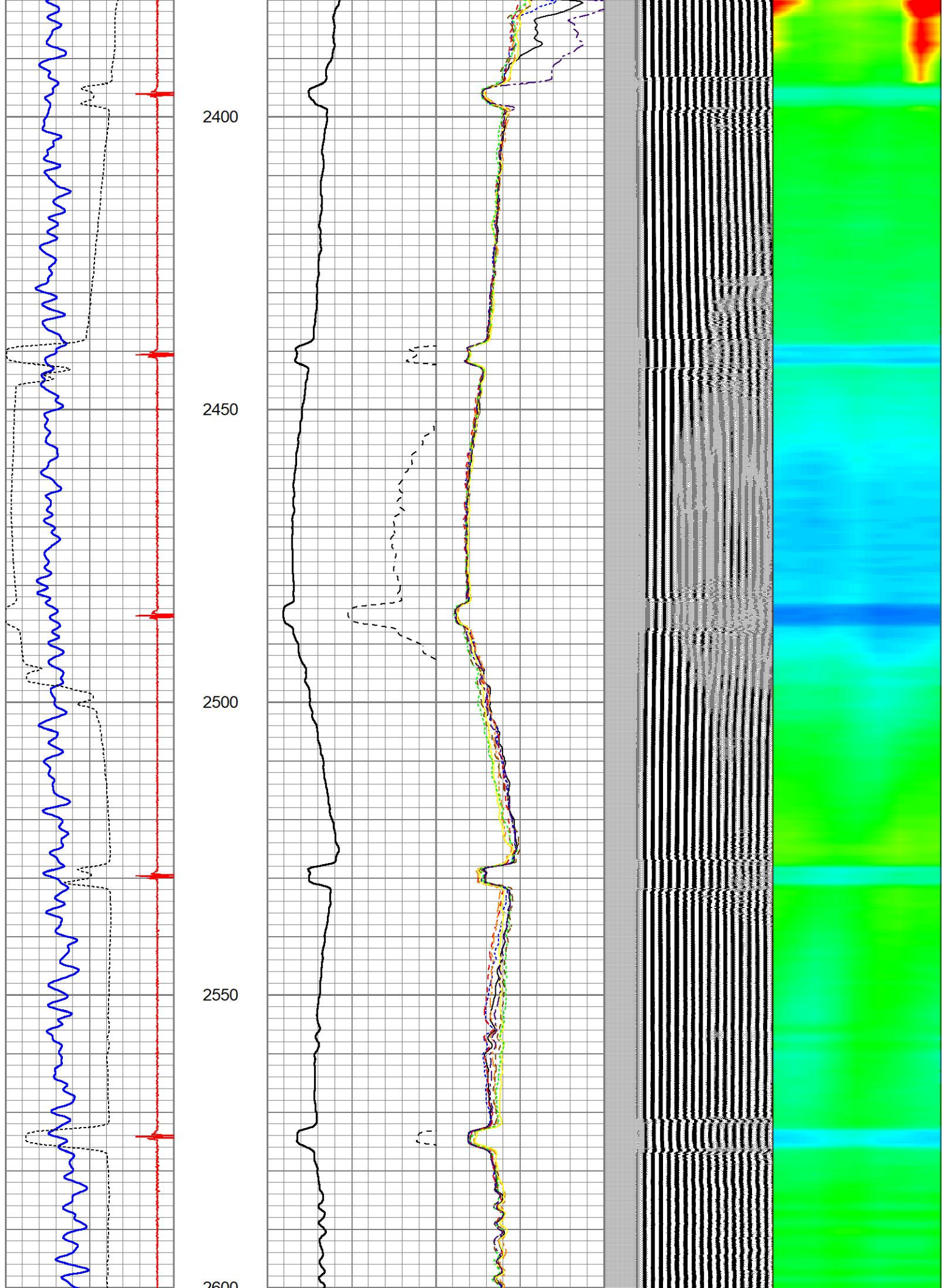


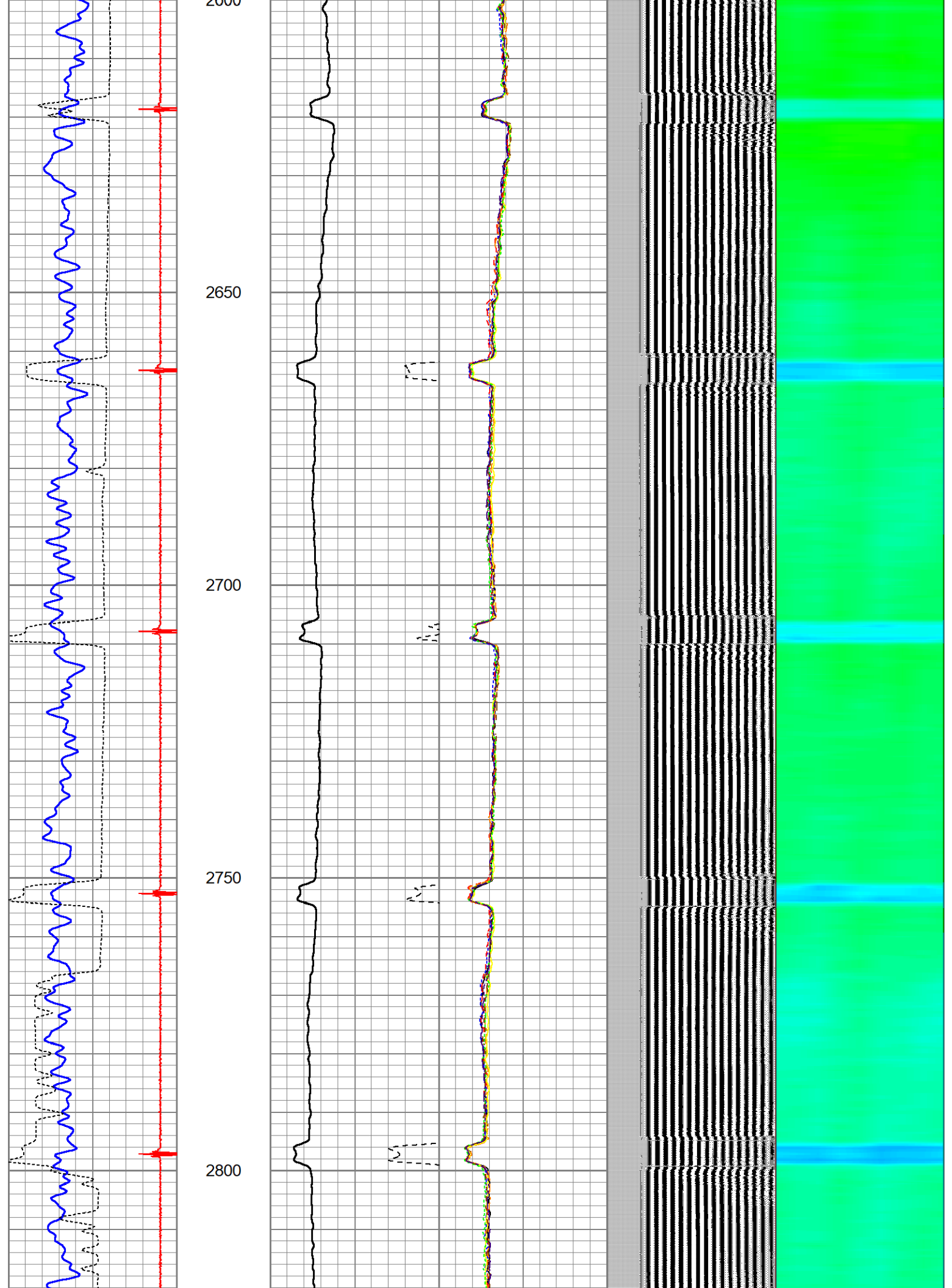


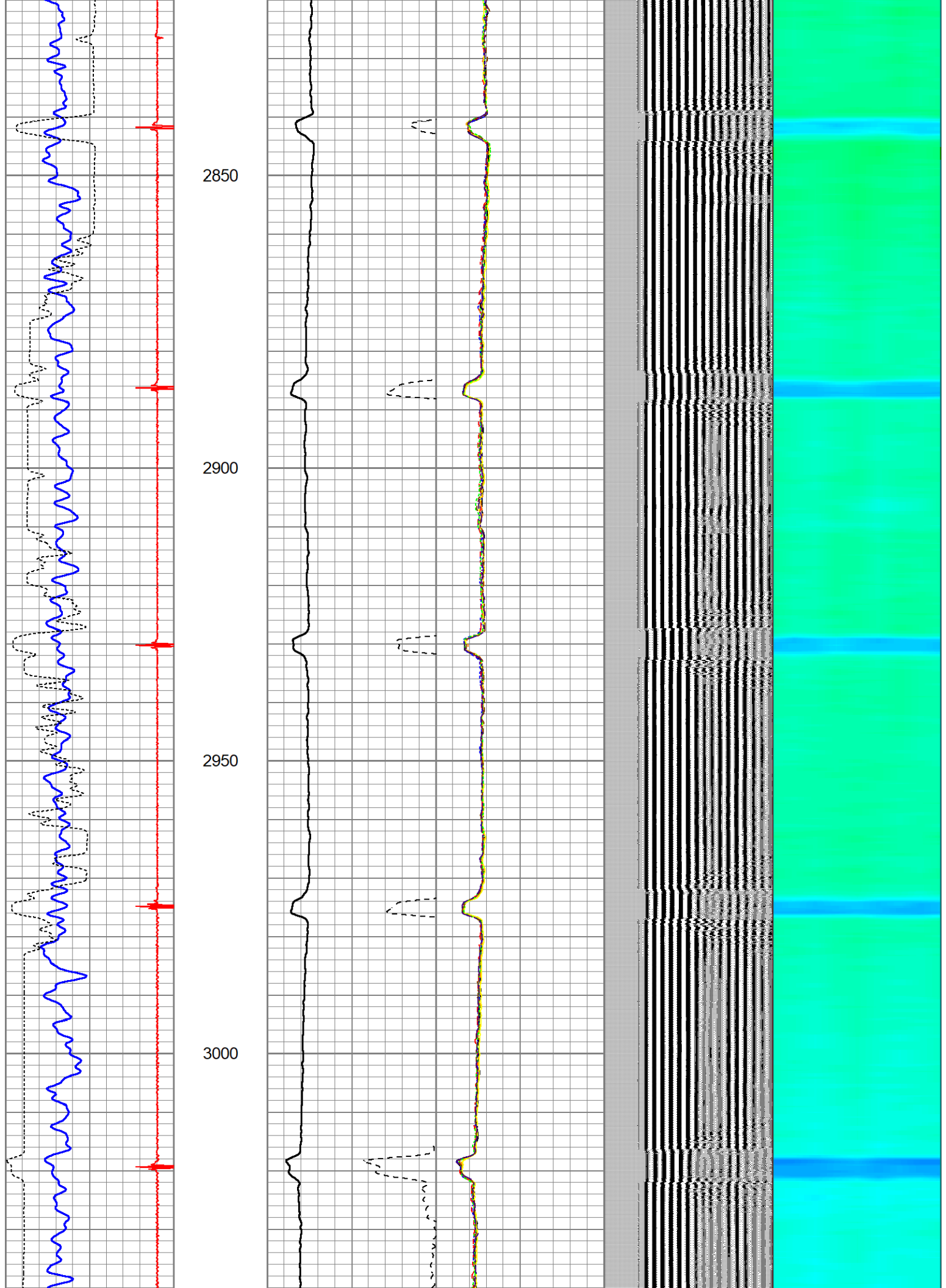


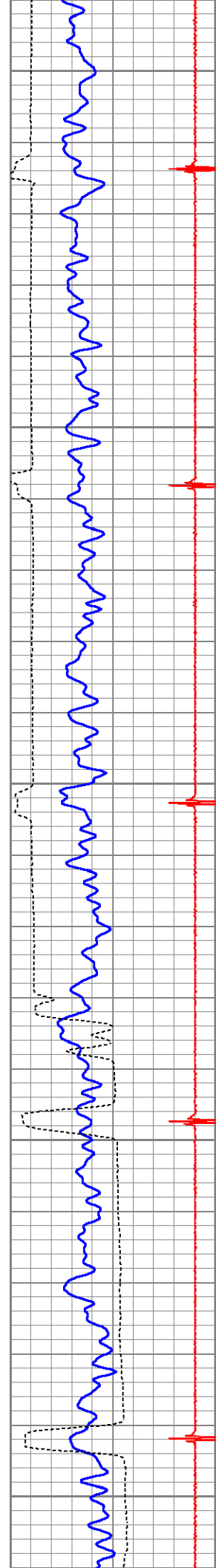












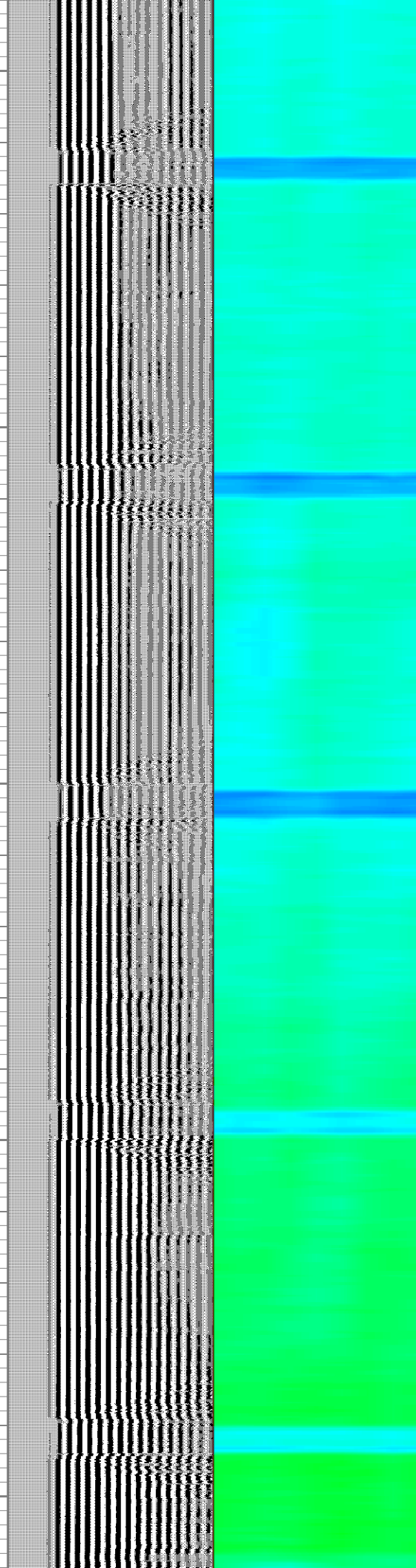
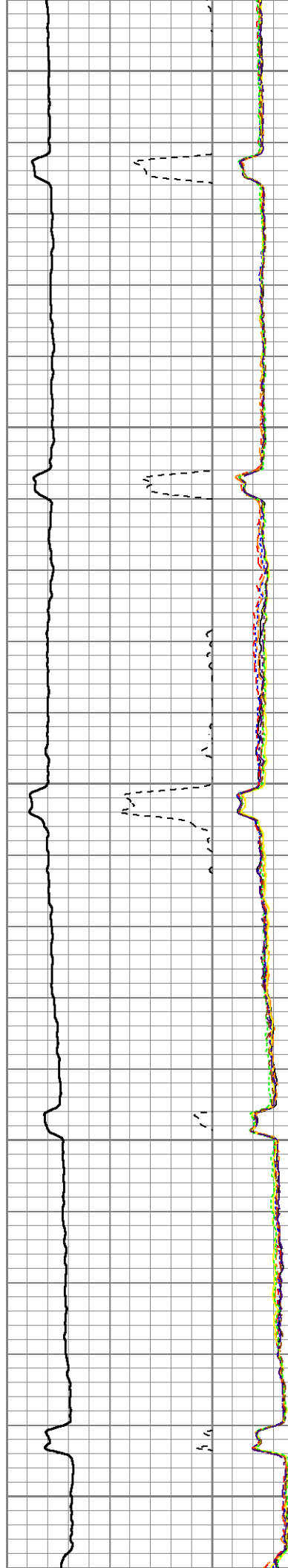
3050

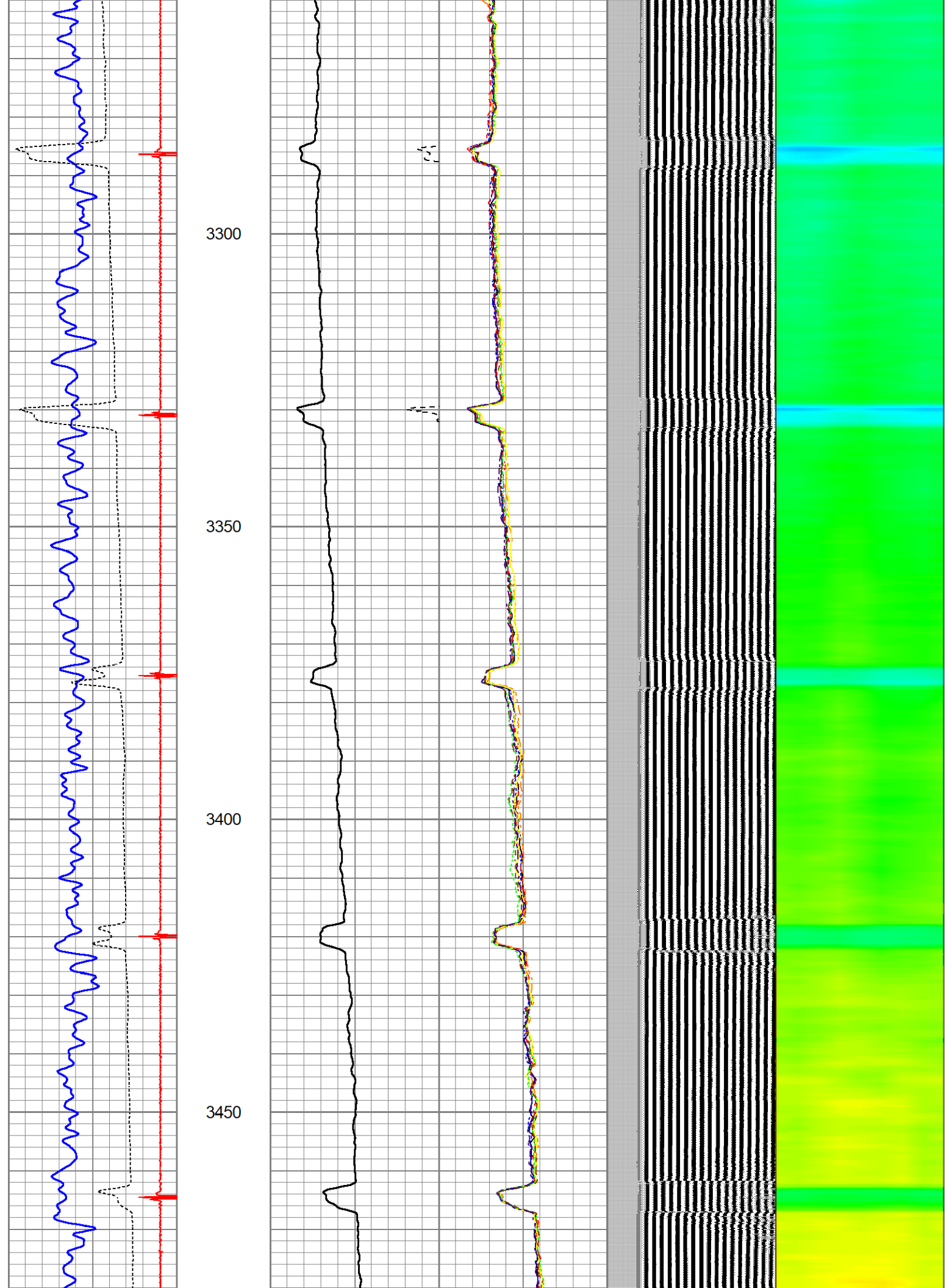
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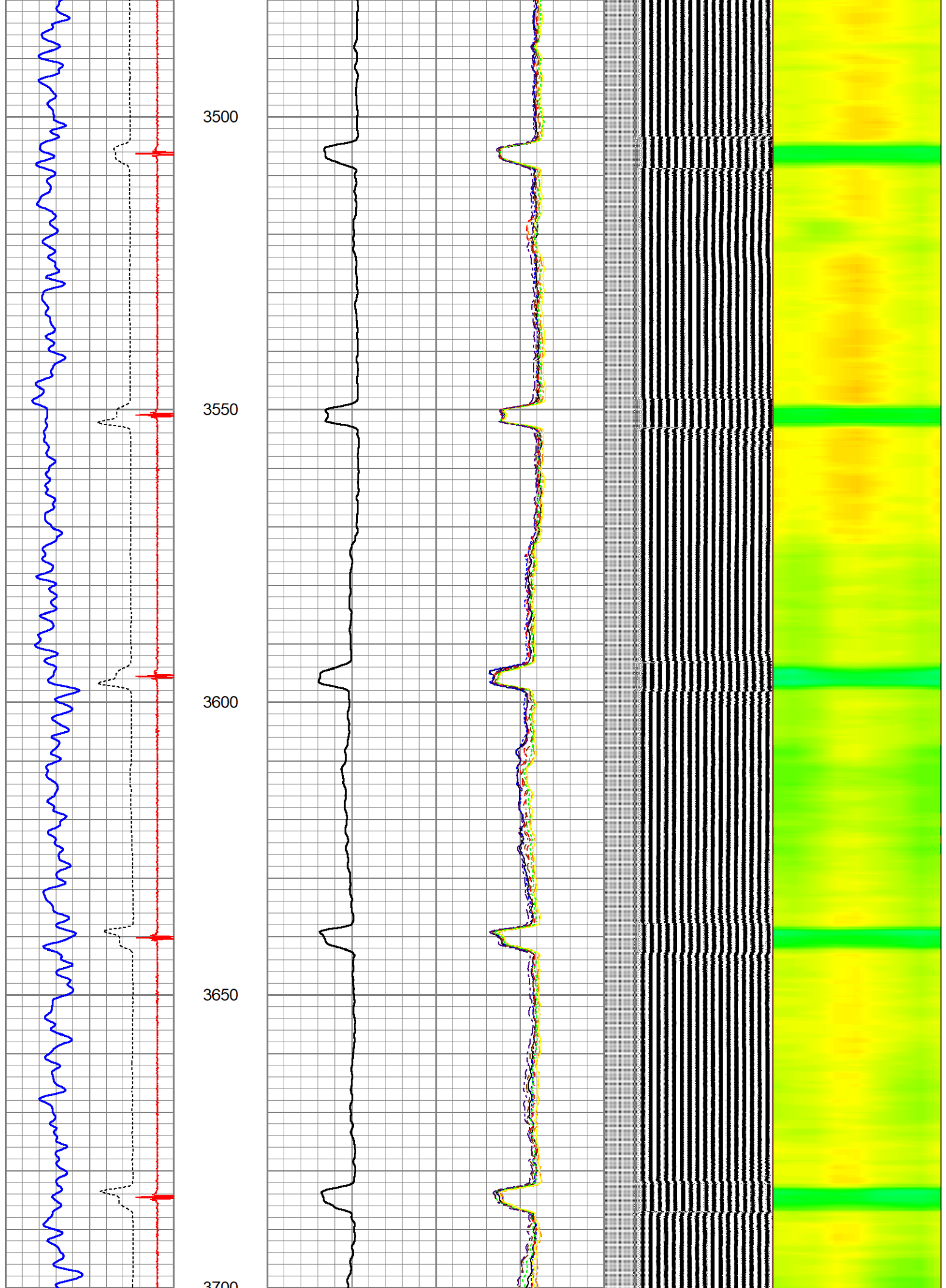
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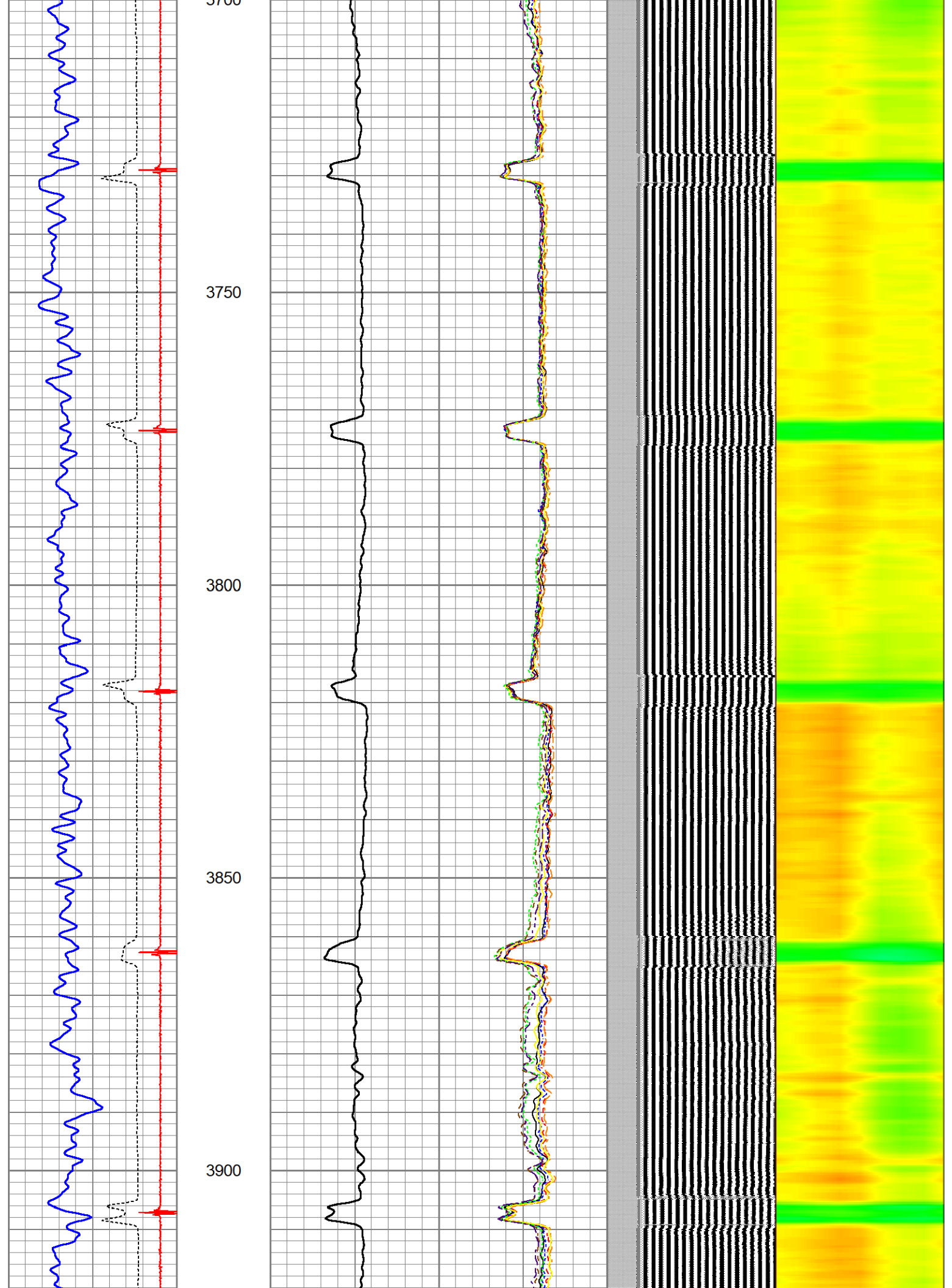
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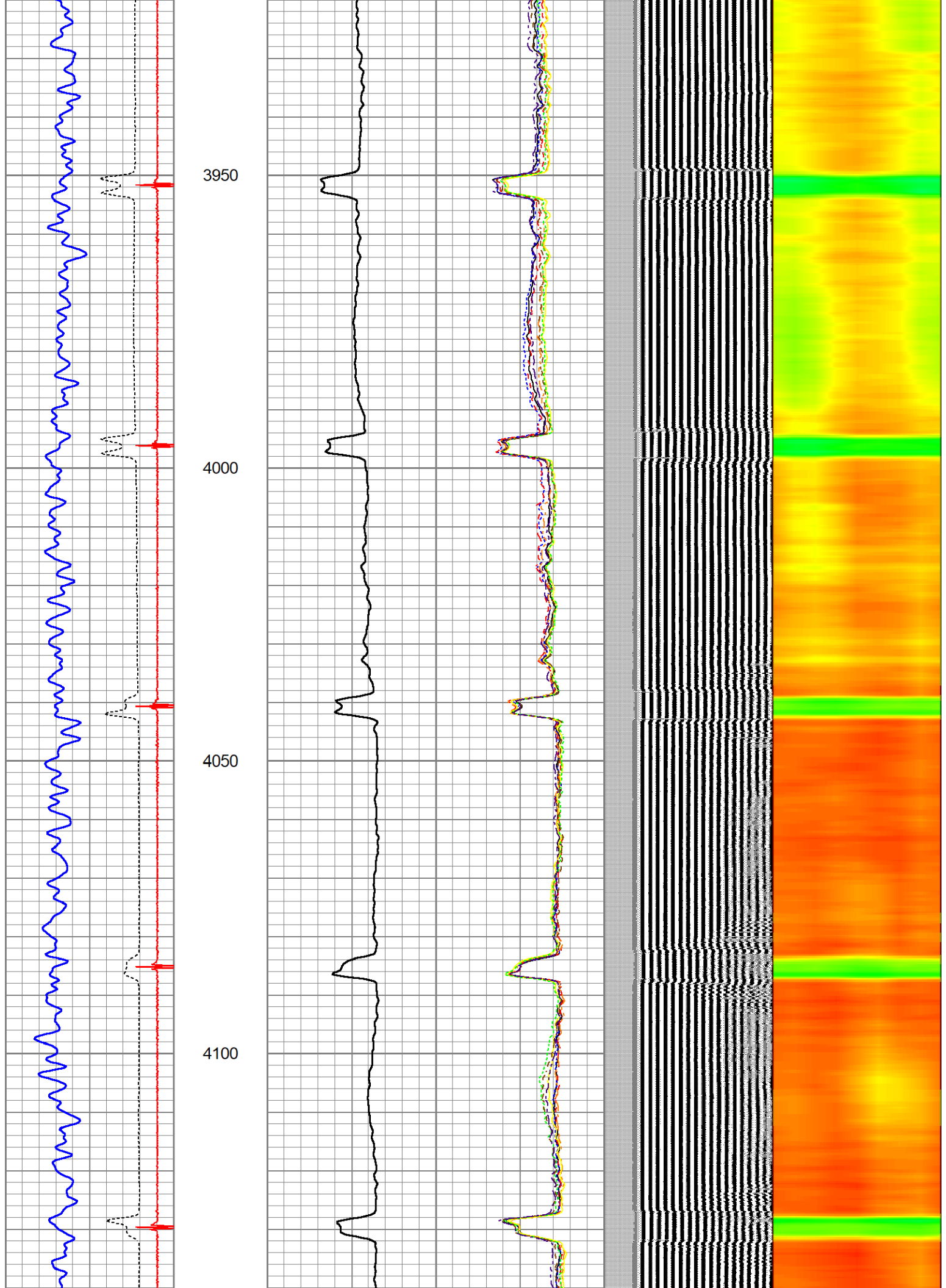
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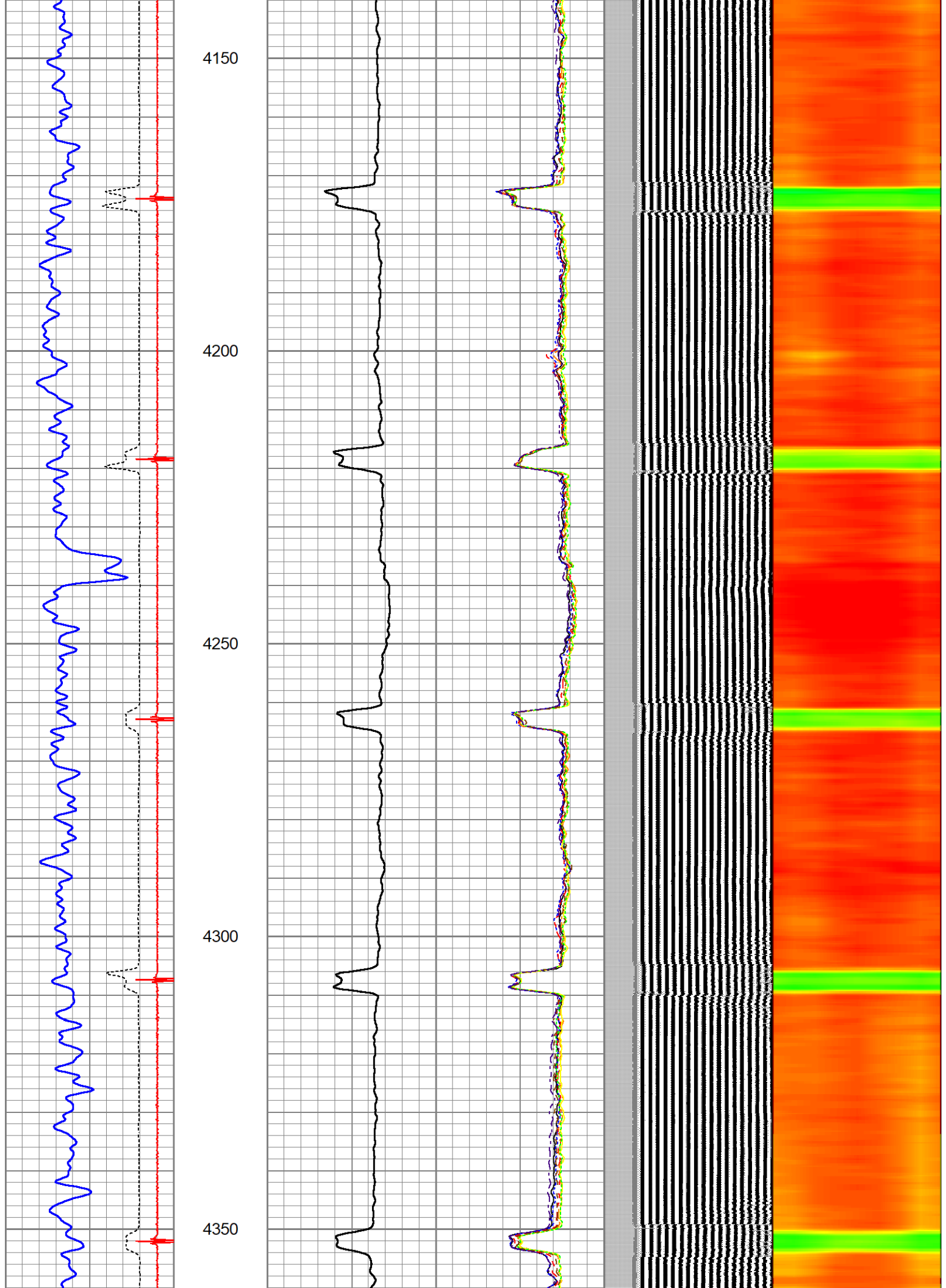


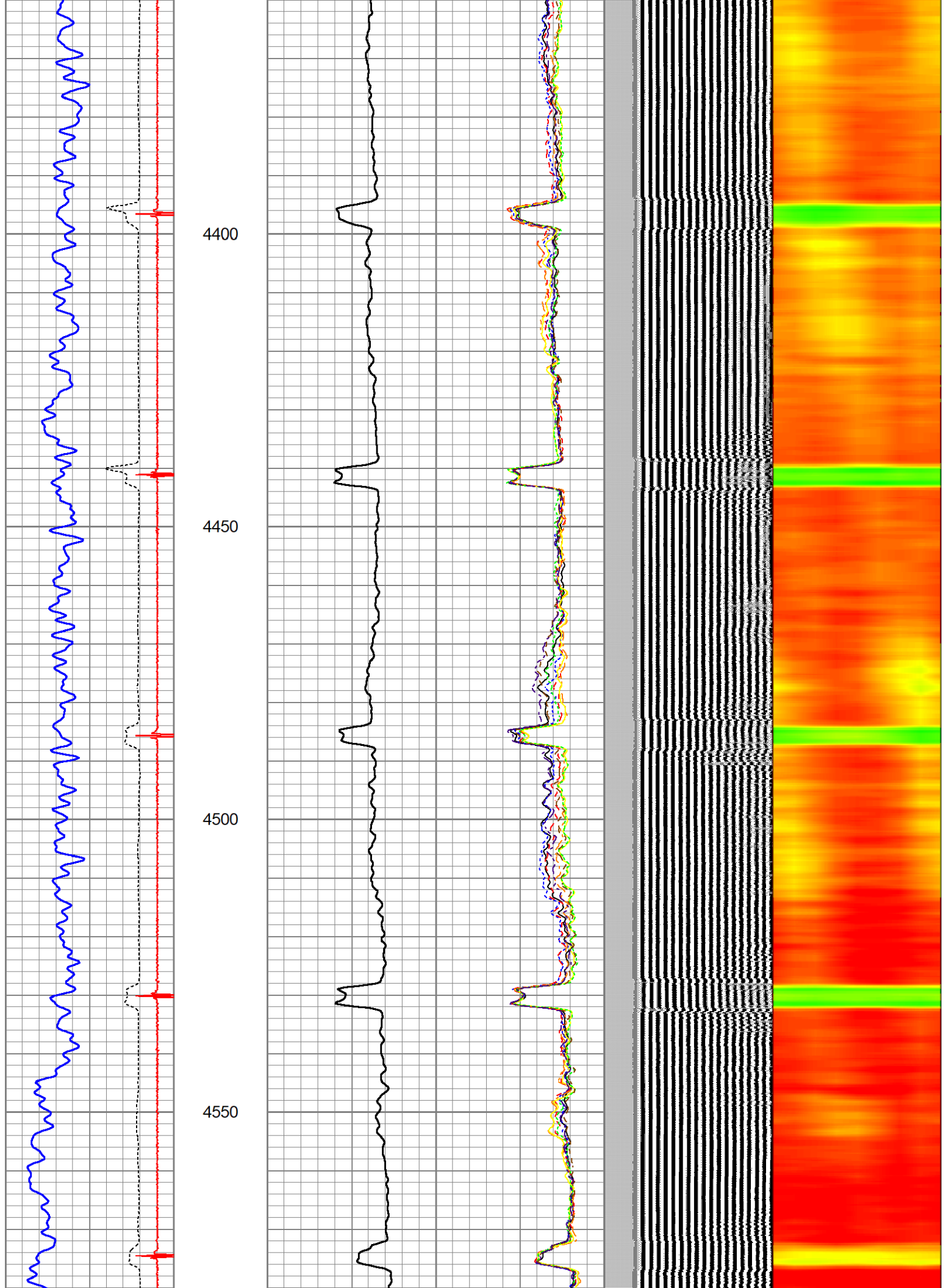


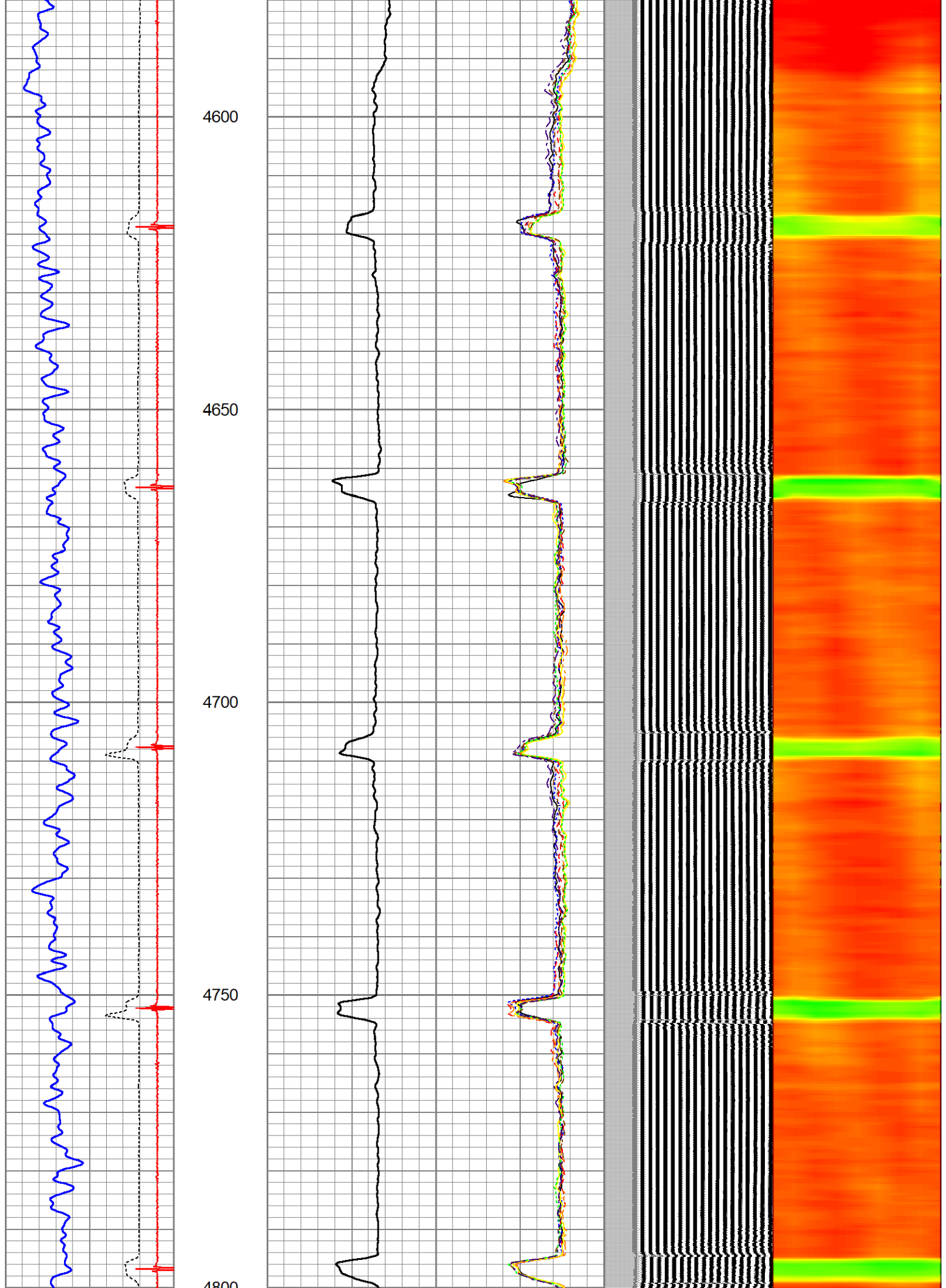


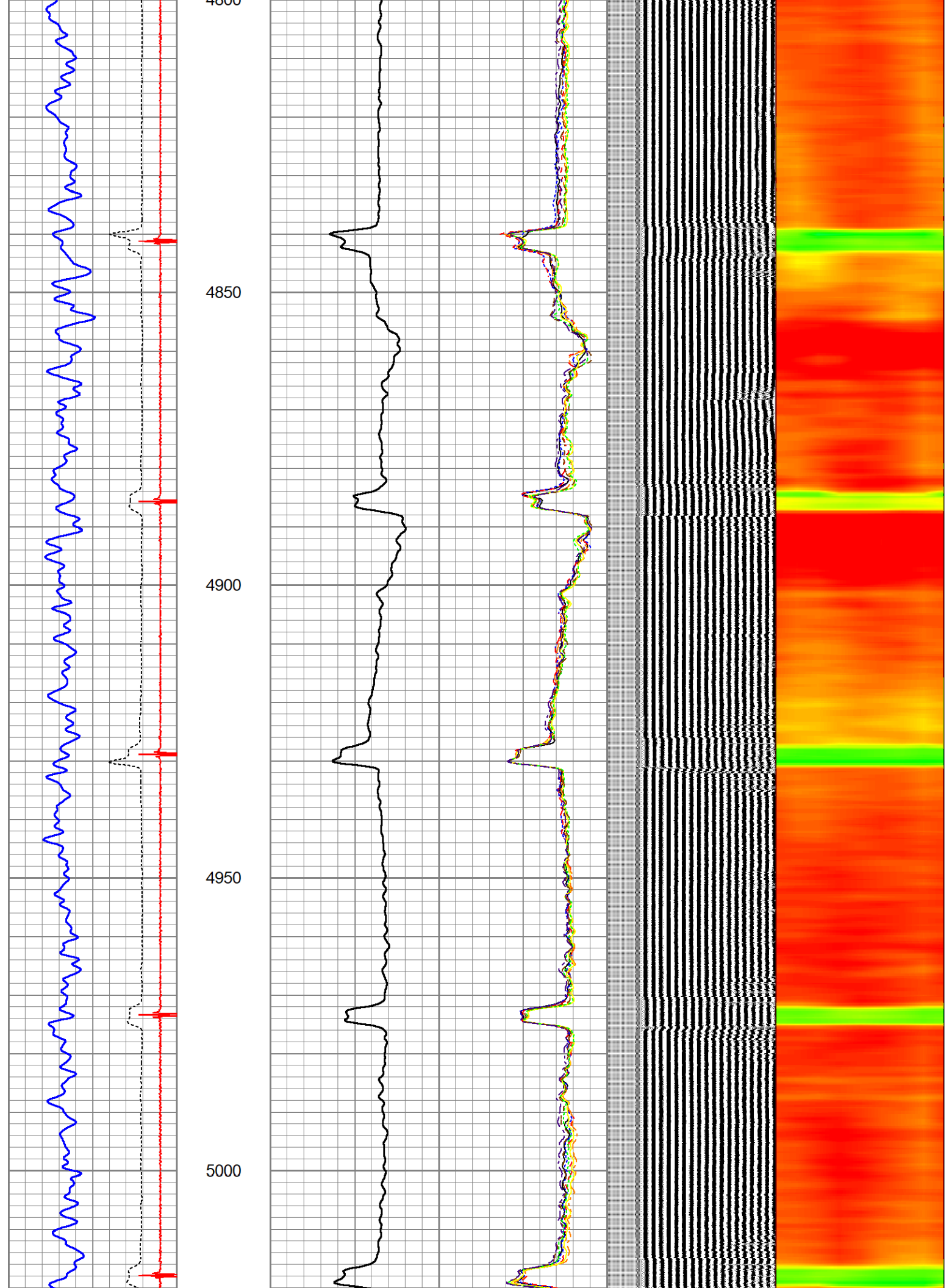


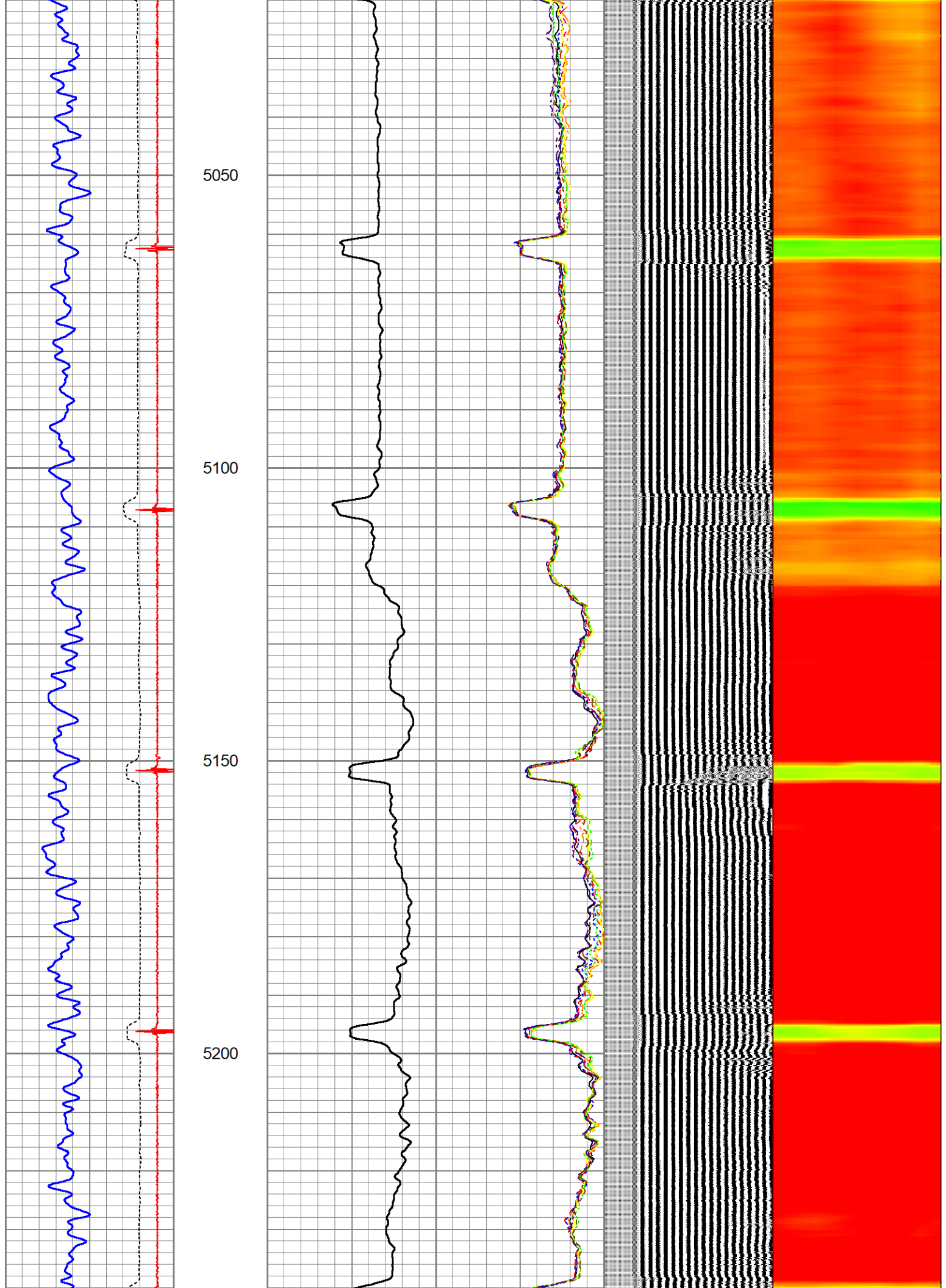


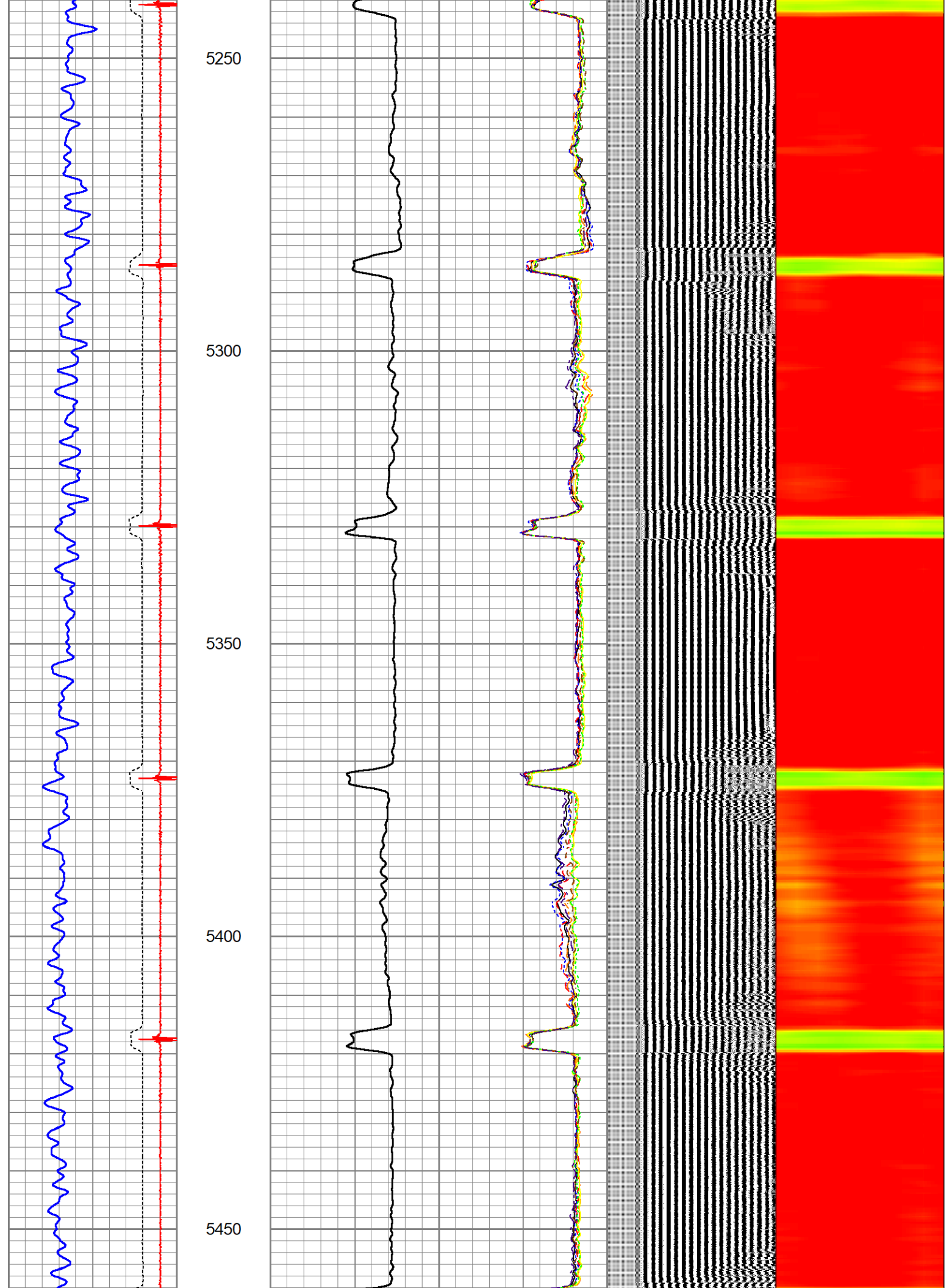


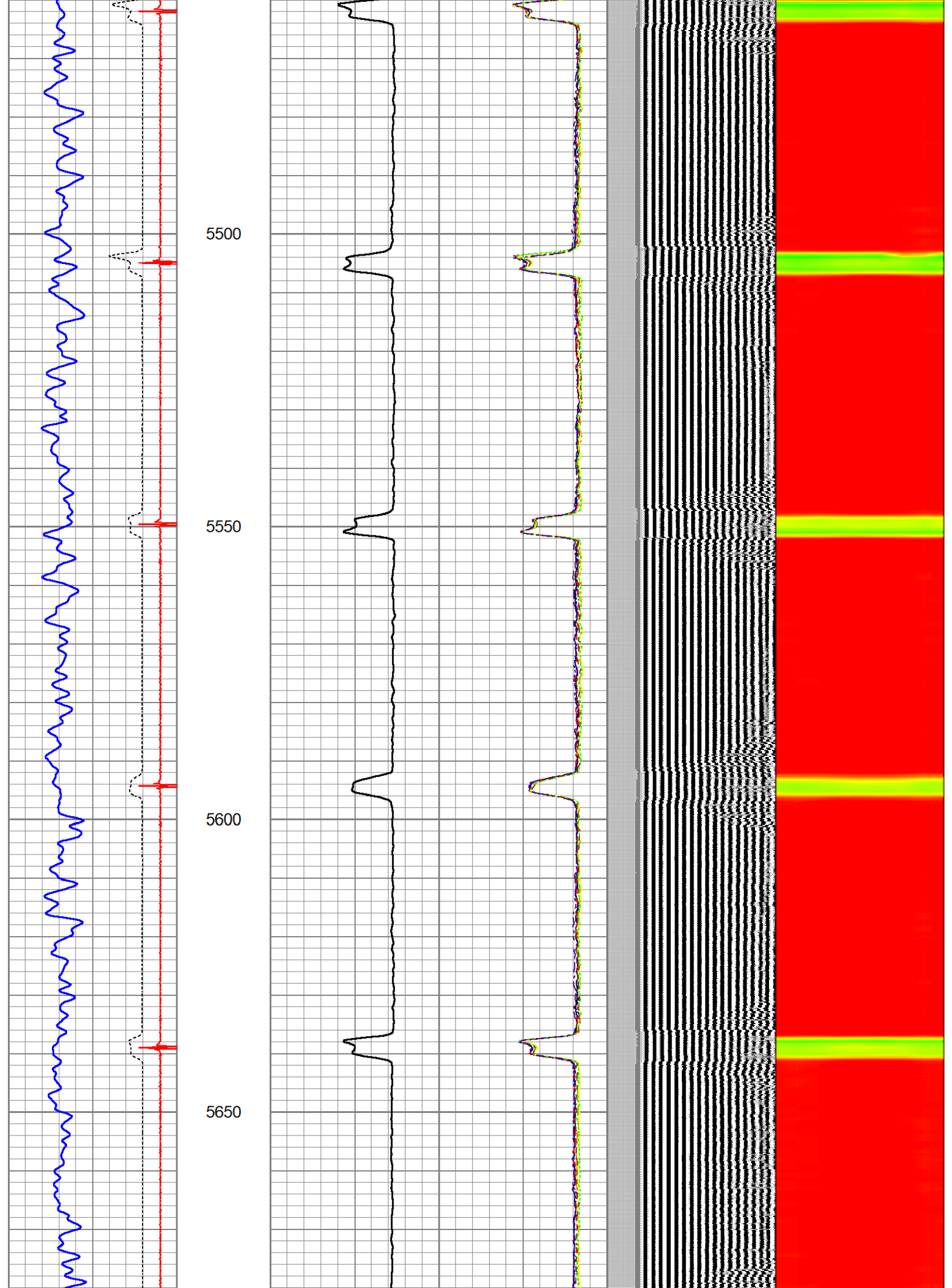


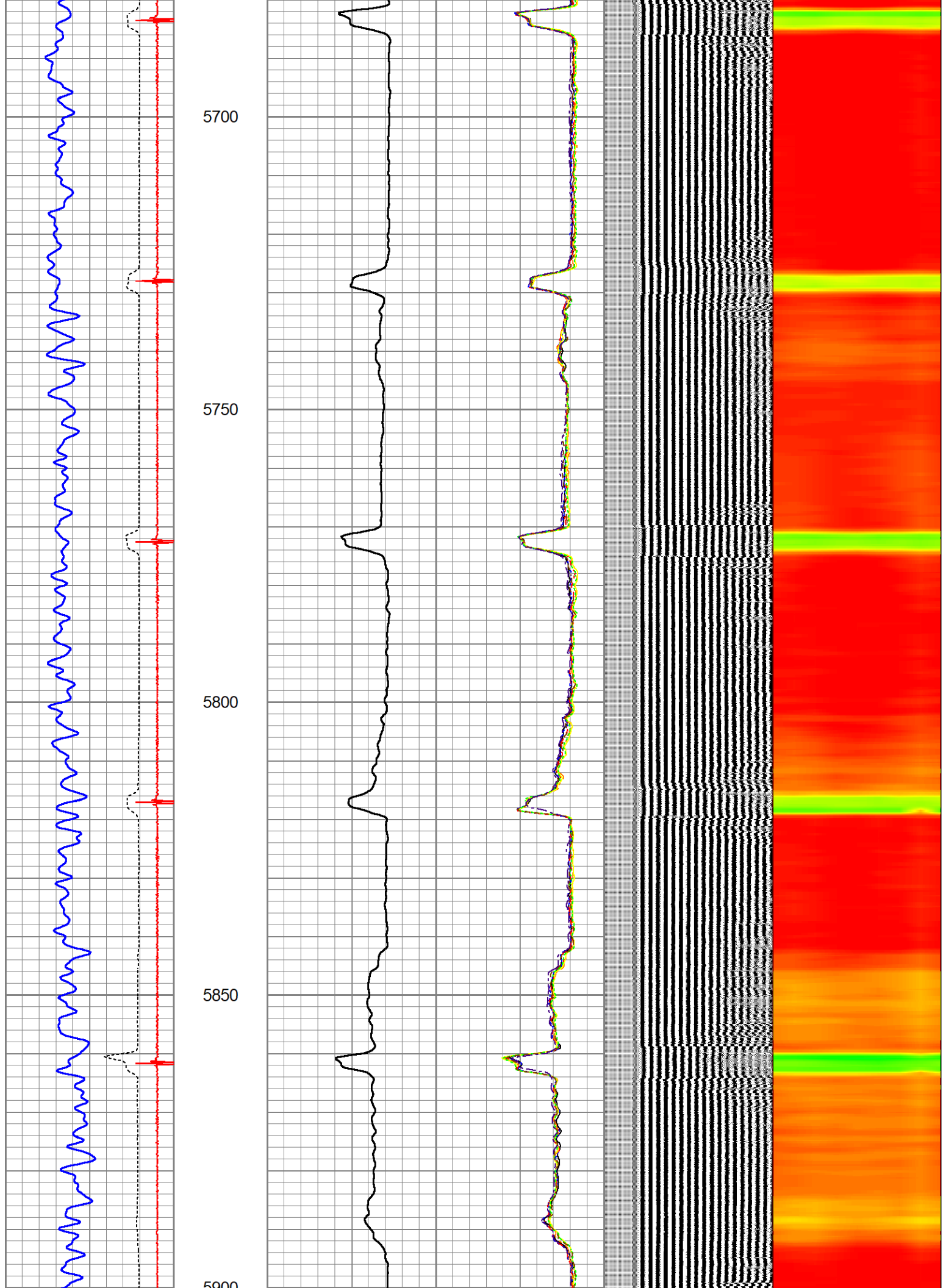


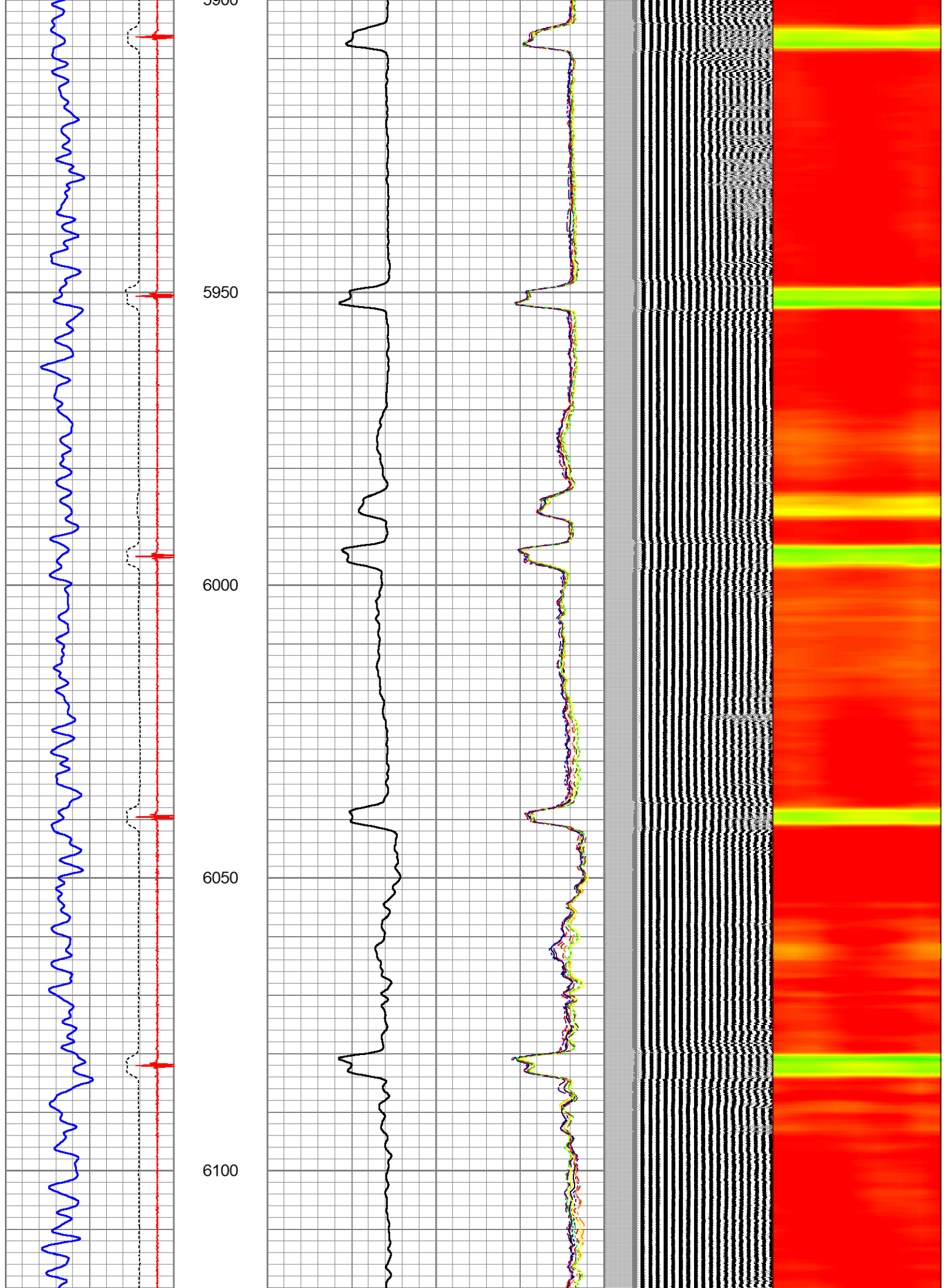


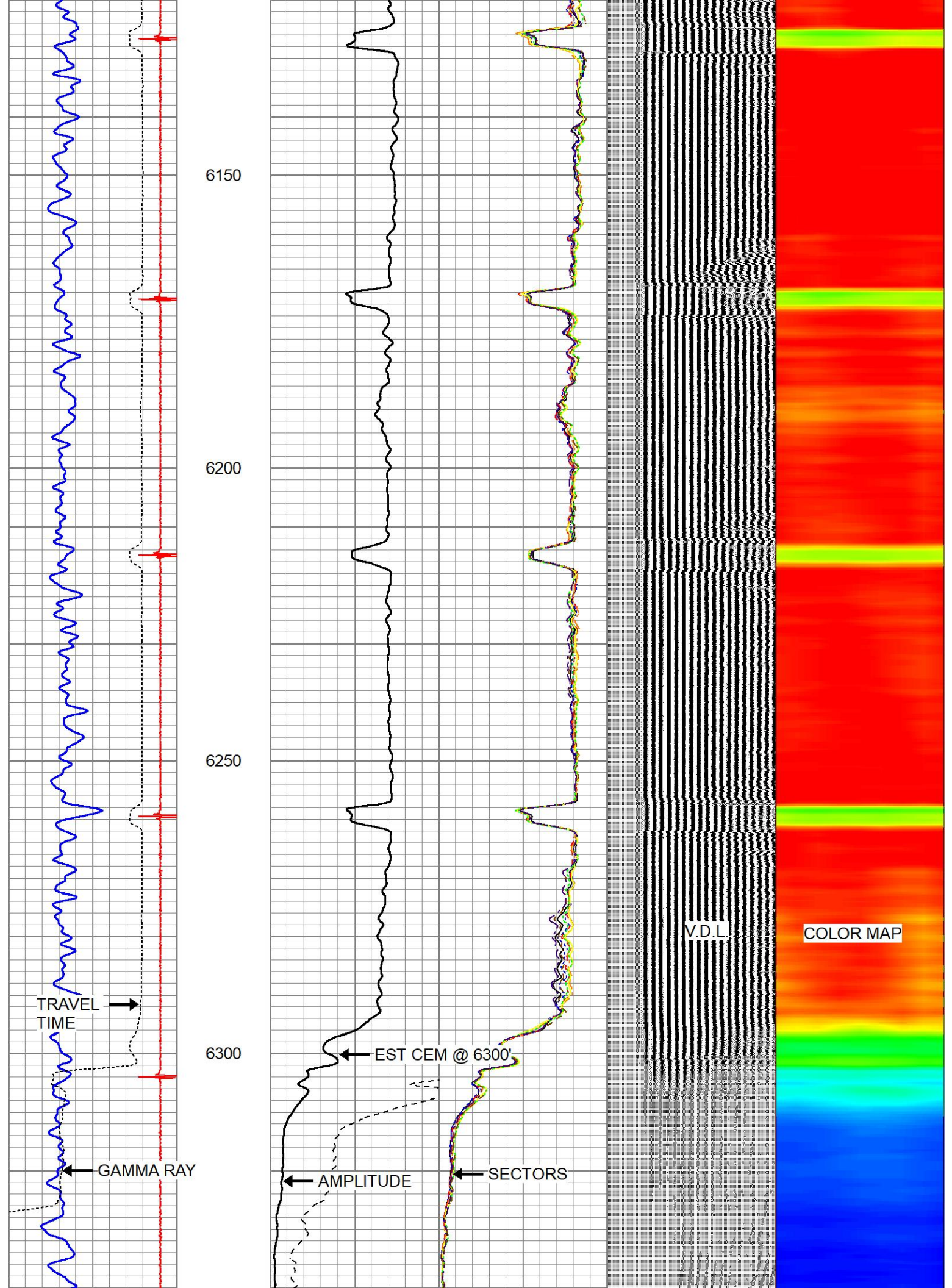


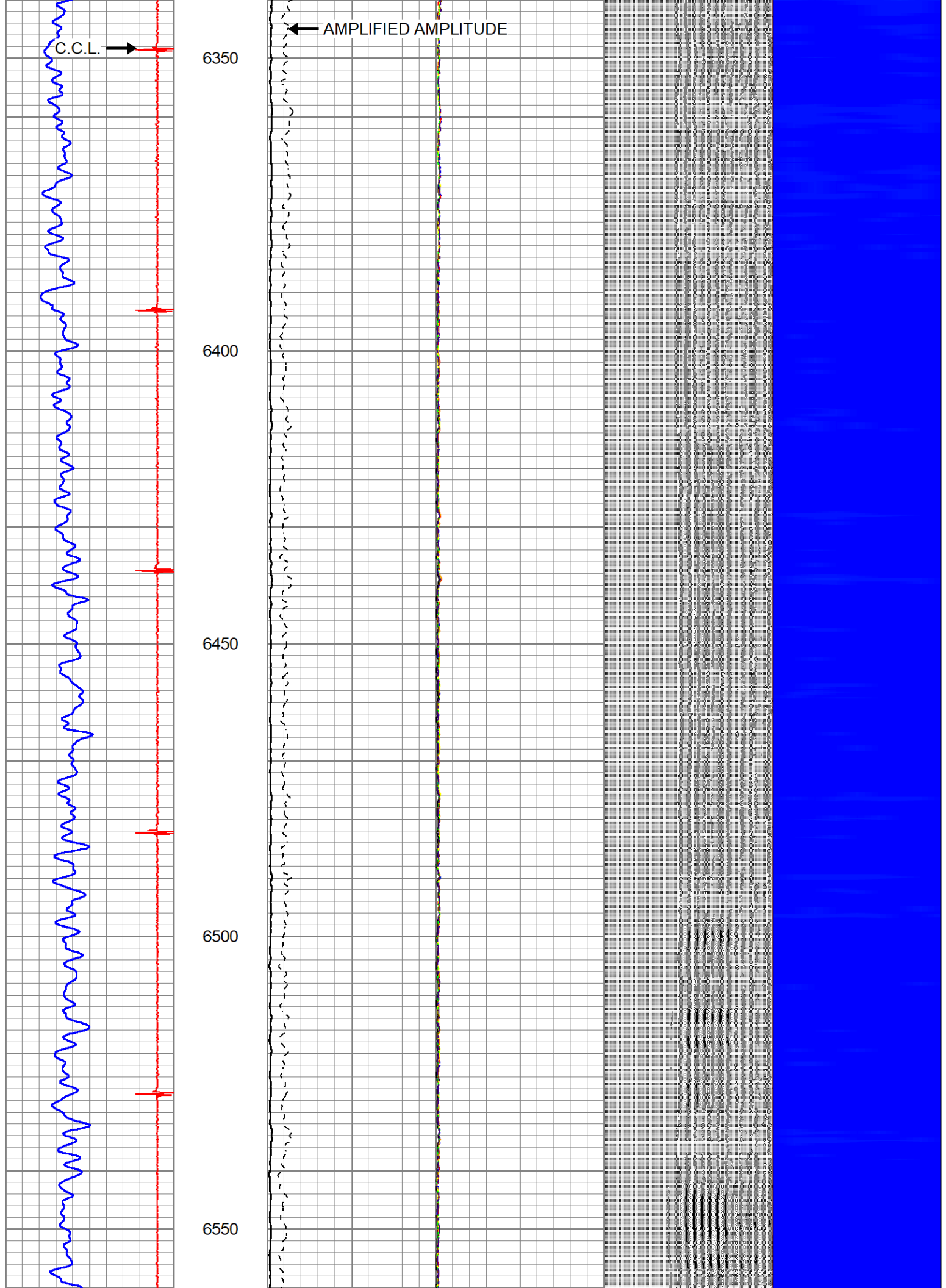


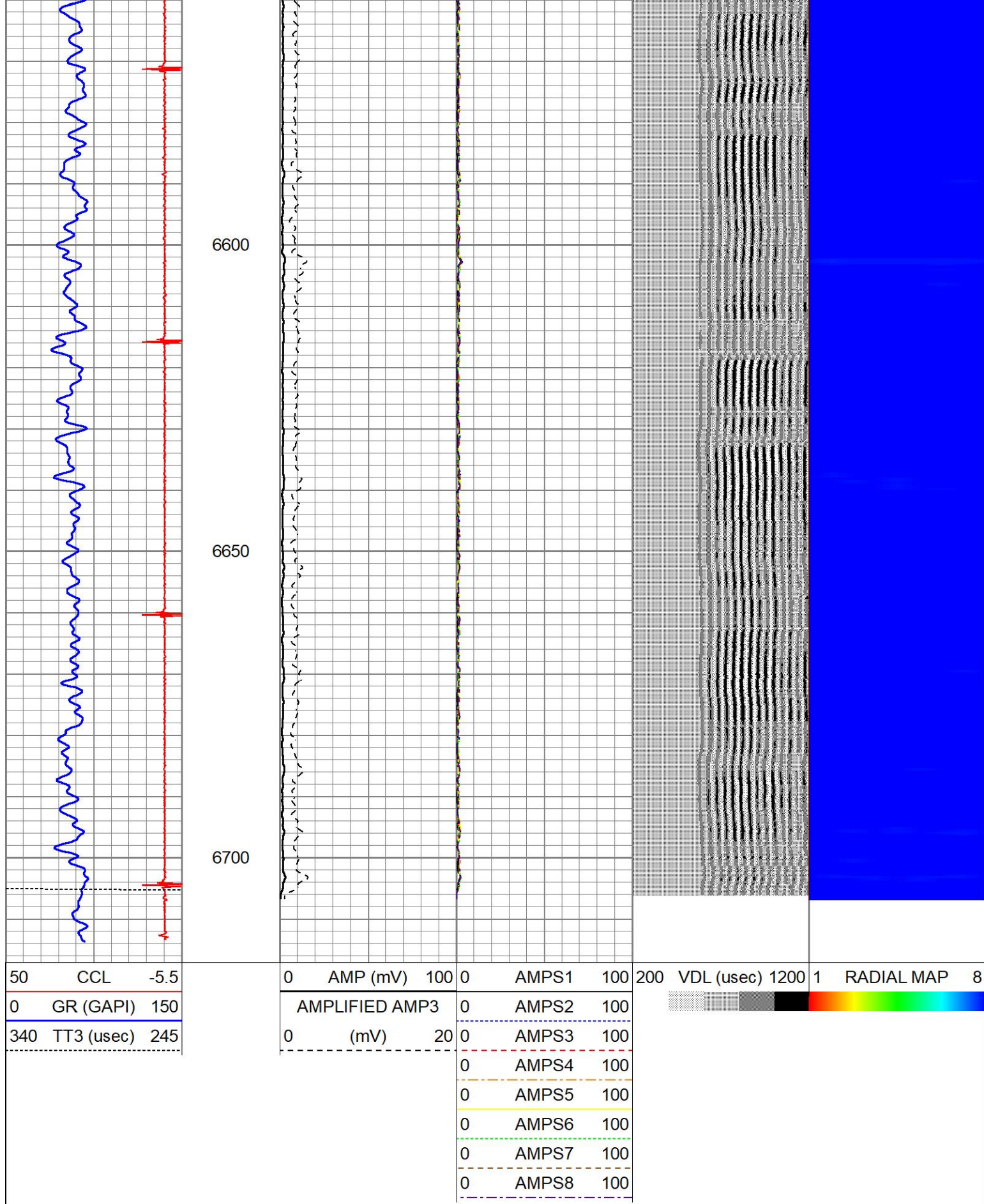












Calibration Report

Database File hsr knox 4-3 cbl.db
Dataset Pathname pass1.4
Dataset Creation Wed Mar 15 08:23:10 2023

Gamma Ray Calibration Report

Type / Serial:

Probe275dig / 101010

SHOP CALIBRATION

Wed Jul 13 11:00:34 2022

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.4000			GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 101020
Tool Model: Probe

Calibration Casing Diameter: 5.500 in
Calibration Depth: 6192.158 ft

Master Calibration, performed Wed Mar 15 08:17:48 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.592	0.700	71.921	120.711	0.516
CAL	0.002	0.922				
5'	0.002	0.385	0.700	71.921	185.615	0.412
SUM						
S1	0.002	0.563	0.000	81.000	144.423	-0.305
S2	0.002	0.605	0.000	81.000	134.241	-0.234
S3	0.002	0.623	0.000	81.000	130.341	-0.220
S4	0.002	0.629	0.000	81.000	129.091	-0.232
S5	0.002	0.622	0.000	81.000	130.459	-0.207
S6	0.002	0.603	0.000	81.000	134.677	-0.237
S7	0.001	0.581	0.000	81.000	139.672	-0.208
S8	0.002	0.589	0.000	81.000	137.910	-0.232

Internal Reference Calibration, performed Tue Feb 12 12:45:01 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.002	0.922	1.000	0.000

Air Zero Calibration, performed Thu Feb 21 13:40:31 2013:

	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

Log Variables

DatabaseC:\ProgramData\Warrior\Data\hsr knox 4-3 cbl.db
 Dataset field/well/run1/pass1.4/_vars_

Top - Bottom							
BOREID in 7.875	BOTTEMP degF 100	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 11.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.8
PERFS No	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0				

Variable Description

BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness

CASEWGHT : Casing Weight
 MAXAMPL : Maximum Amplitude
 MINAMPL : Minimum Amplitude
 MINATTN : Minimum Attenuation

PERFS : Perforation Flag
 PPT : Predicted Pipe Time
 SRFTEMP : Surface Temperature
 TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-STNDRD Standard Cable Head	1.00	1.69	10.00
			CENT-PTS1.70 (PT0934) Probe 1.70 Centralizer	3.08	1.70	10.00
WVFS8 WVES7	11.88 11.88		RBT-Probe (101020) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00

Tool Joint	Length (ft)	Weight (lb)	OD (in)	Tool Joint	Length (ft)	Weight (lb)	OD (in)
WVFS6	11.88						
WVFS5	11.88						
WVFS4	11.88						
WVFS3	11.88						
WVFS2	11.88						
WVFS1	11.88						
WVFCAL	11.88						
WVF3FT	11.88						
WVF5FT	10.88						
				CENT-PTS1.70 (PT0936) Probe 1.70 Centalizer	3.08	1.70	10.00
CCL	3.63						
				GR-Probe275dig (101010) Probe Gamma CCL	4.54	2.75	57.00
GR	0.89						

Dataset: hsr knox 4-3 cbl.db: field/well/run1/pass1.4

Total length: 20.46 ft

Total weight: 177.00 lb

O.D.: 2.75 in

3.08

1.70

10.00

4.54

2.75

57.00