



Radial
Cement
Bond Log

Company Antero Resources		Well Reader 2H		Field Wetzel		County Wetzel		State WV	
Company Antero Resources		Well Reader 2H		Field Wetzel		County Wetzel		State WV	
Location:		AP# : 47-103-03497		Other Services		GR		CCL	
Permanent Datum		TWP		RGE		Elevation		30'	
Log Measured From		K.B.		K.B.		D.F.		N/A	
Drilling Measured From		K.B.		G.L.		N/A			
Date	26/Nov/2022	Run Number	ONE	Depth Driller	22,692'	Bottom Logger	7,544'	Top Log Interval	Surface
Open Hole Size	8.75"	Type Fluid	Brine	Density / Viscosity	9.8#	Max. Recorded Temp.	N/A	Estimated Cement Top	5,766'
Time Well Ready	10:40	Time Logger on Bottom	11:15	Equipment Number	116	Location	Charleroi, Pa	Recorded By	B. Lane / D. Josephik
Witnessed By	Mr. Mike Szabo	Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To		
Casing Record	Size	Wgt/Ft	Top	Bottom					
Surface String	28"	n/a	Surface	130'					
Prot. String	17.5"	n/a	Surface	679'					
Production String	12.25"	n/a	Surface	3,571'					
Liner	8.75"	n/a	Surface	6,425'					
	5.5"	23#	Surface	22,658"					

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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

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Office of Oil and Gas

MAY 10 2023

WV Department of
Environmental Protection

Log Correlated to Marker Joint (6,273'-6,283') Per Well Schematic

Free Pipe = 71.9mv
Bonded Pipe= 3.4mv
ETOC= 5,766'

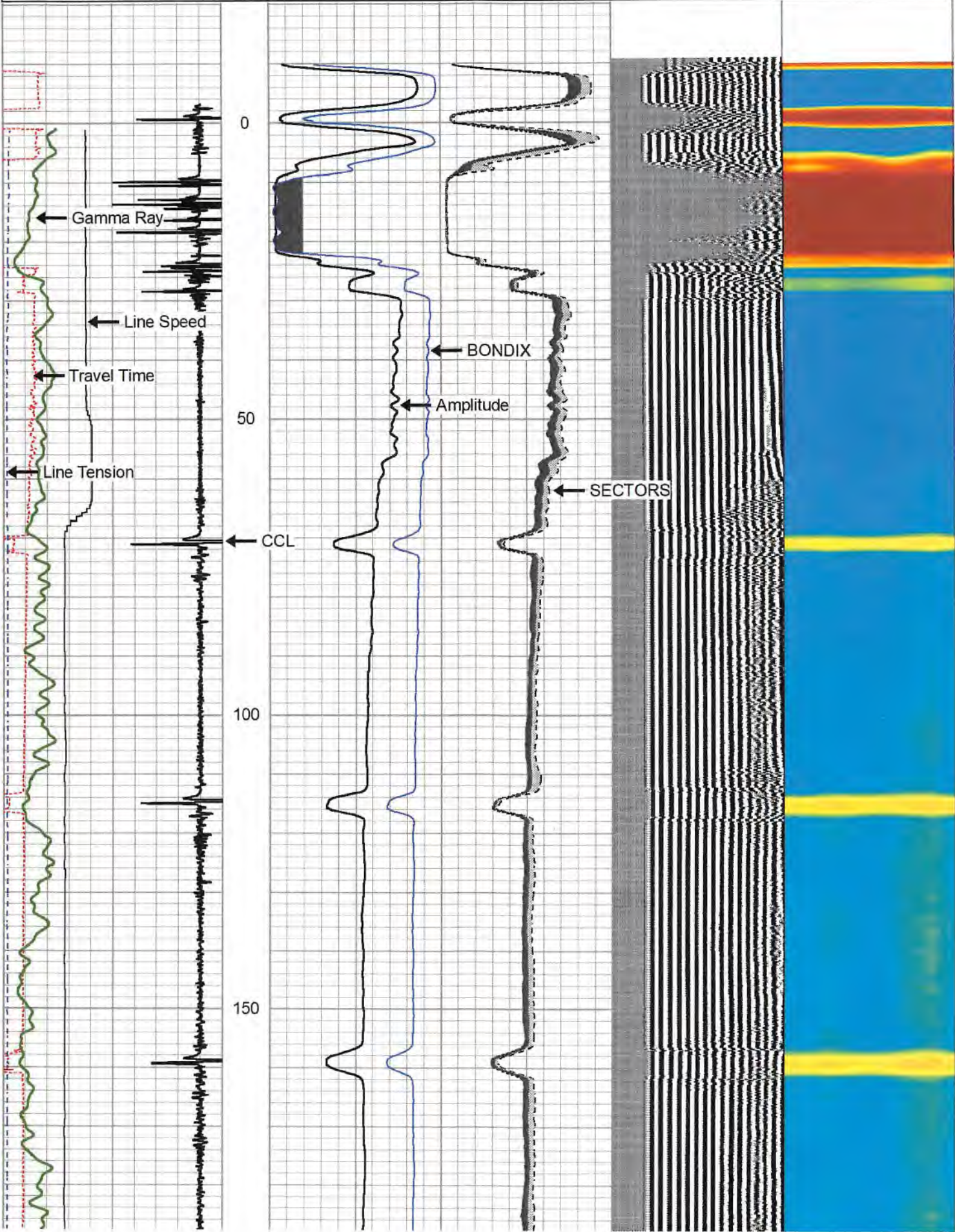
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GCT_FMWR	21.59		CableHead-Titan Titan Mark II Cablehead	1.00	1.68	2.00
mSec_Count	21.59					
RBT_Status	21.59					
Error_Ct	21.59					

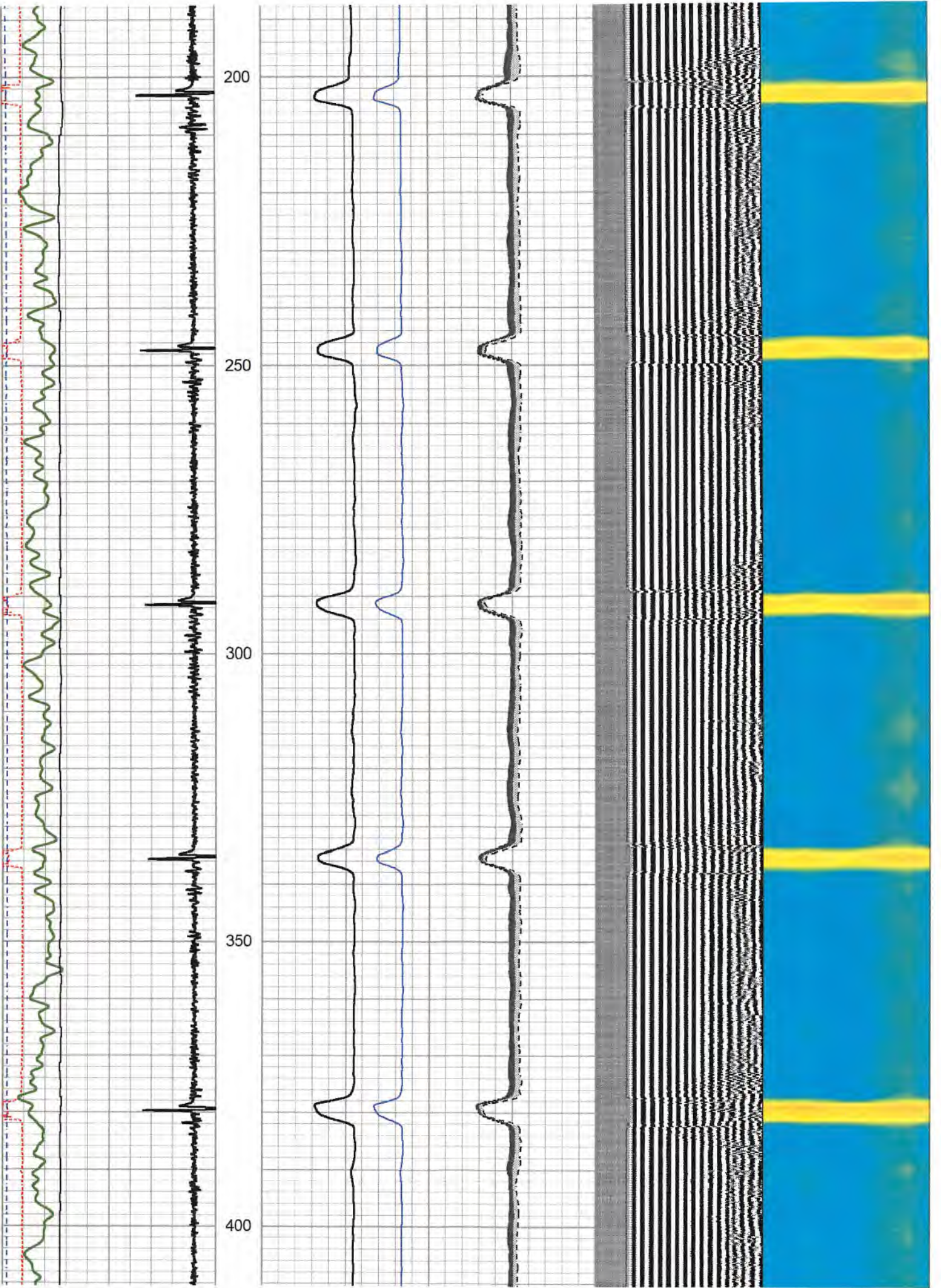
			CENT-Probe169 1 11/16" Centralizer	3.17	1.69	10.00
RBT_HV	17.42					
WVFS8	12.93		RBT8-RADII-275C (RBT275C_Base) Probe 2.75" RADII 8 Sector Bond Tool	8.75	2.75	
WVFS7	12.93					
WVFS6	12.93					
WVFS5	12.93					
WVFS4	12.93					
WVFS3	12.93					
WVFS2	12.93					
WVFS1	12.93					
WVF3FT	12.93					
WVF5FT	11.93					
RBT_ACCZ	8.68					
RBT_ACCY	8.68					
RBT_ACCX	8.68					
WVFSYNC	8.68		CENT-Probe169 1 11/16" Centralizer	3.17	1.69	10.00
WVFCAL	8.68					
GCT_HV	5.51					
CCL\$2	4.29					
CCL\$1	4.29					
GR	2.72		GCacc-GC275-0BP0 (GC275-0BP0_base) Probe 2.75" Gamma Ray - CCL (6 magnet)	5.18	2.75	55.00
GCT_IntTemp	2.00					
			Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00

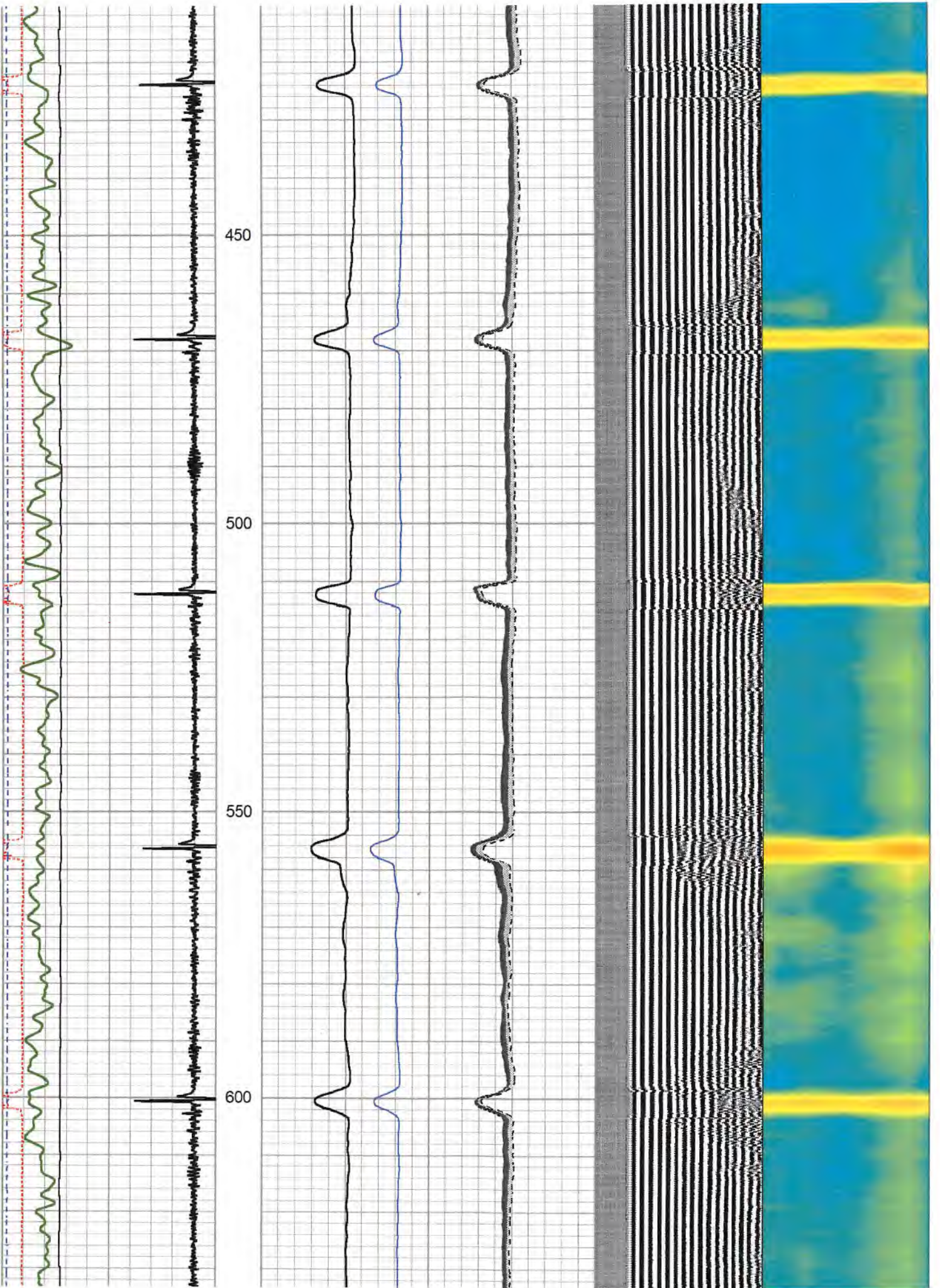
Dataset: antero_furbee_reader2h_rcbl_25-nov-2022.db: field/well/MAIN2/pass4
 Total length: 21.59 ft
 Total weight: 78.00 lb
 O.D.: 2.75 in

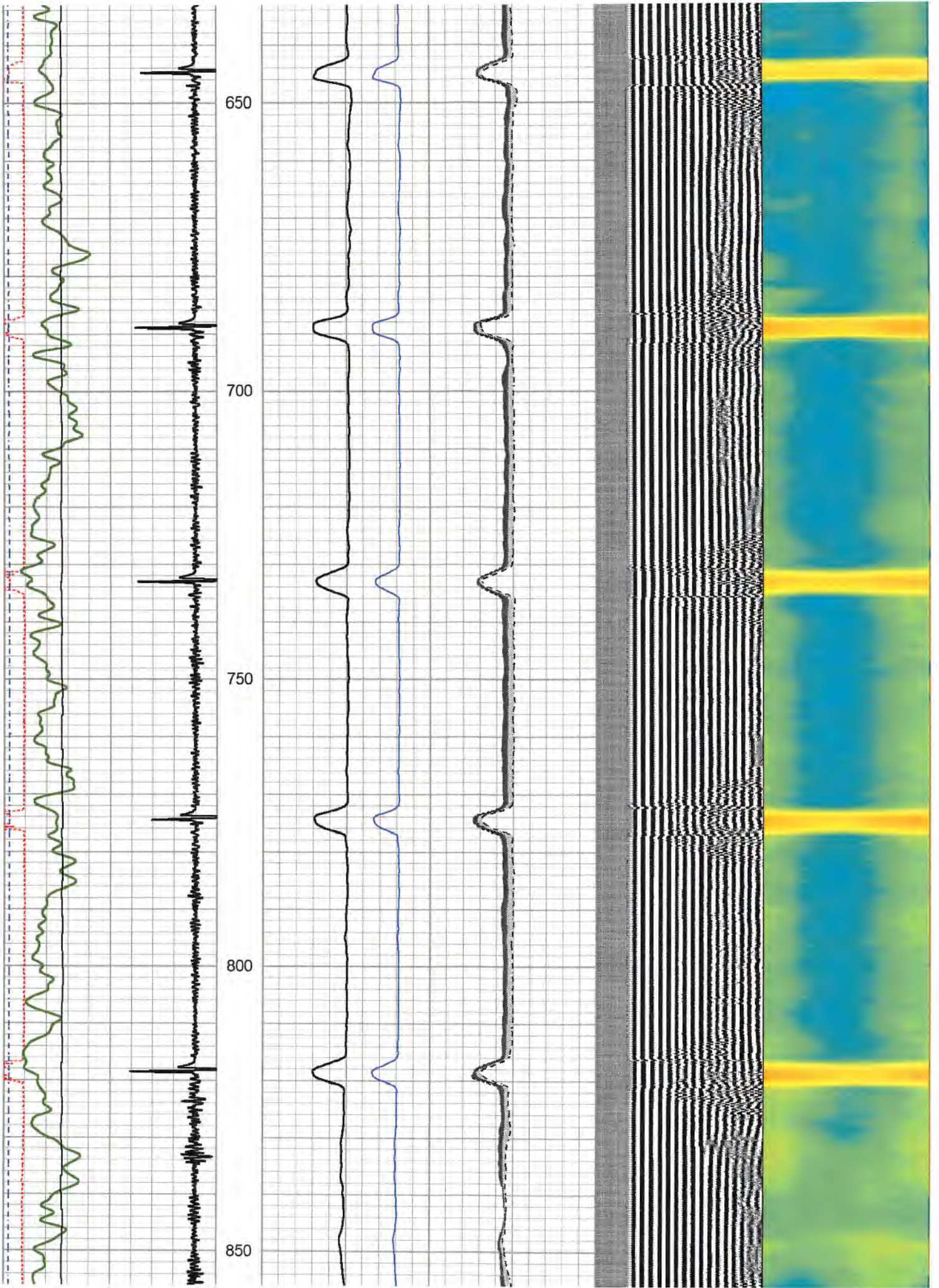
275	Travel Time (usec)	175	0	Amplitude (mV)	100	-5	AMPMIN	150	Variable Density	1	Cement Map	8
9	CCL\$1	-1	1	BONDIX	0	-5	AMPMAX	150	200 (usec) 1200			
0	Gamma Ray (GAPI)	150				-5	AMPAVG	150				

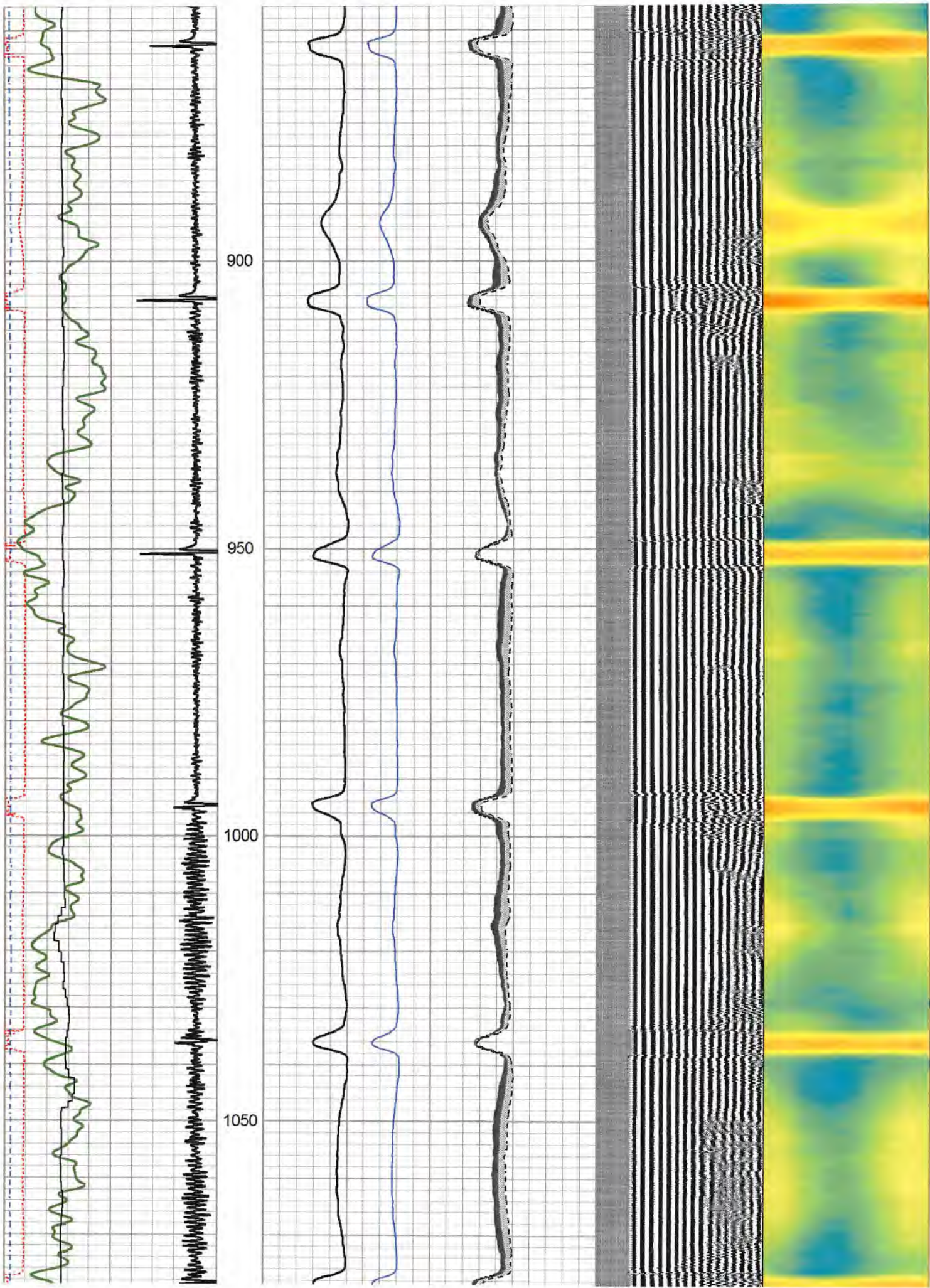
Line Speed
-200 (ft/min) 200
0 Line Tension (lb) 5000

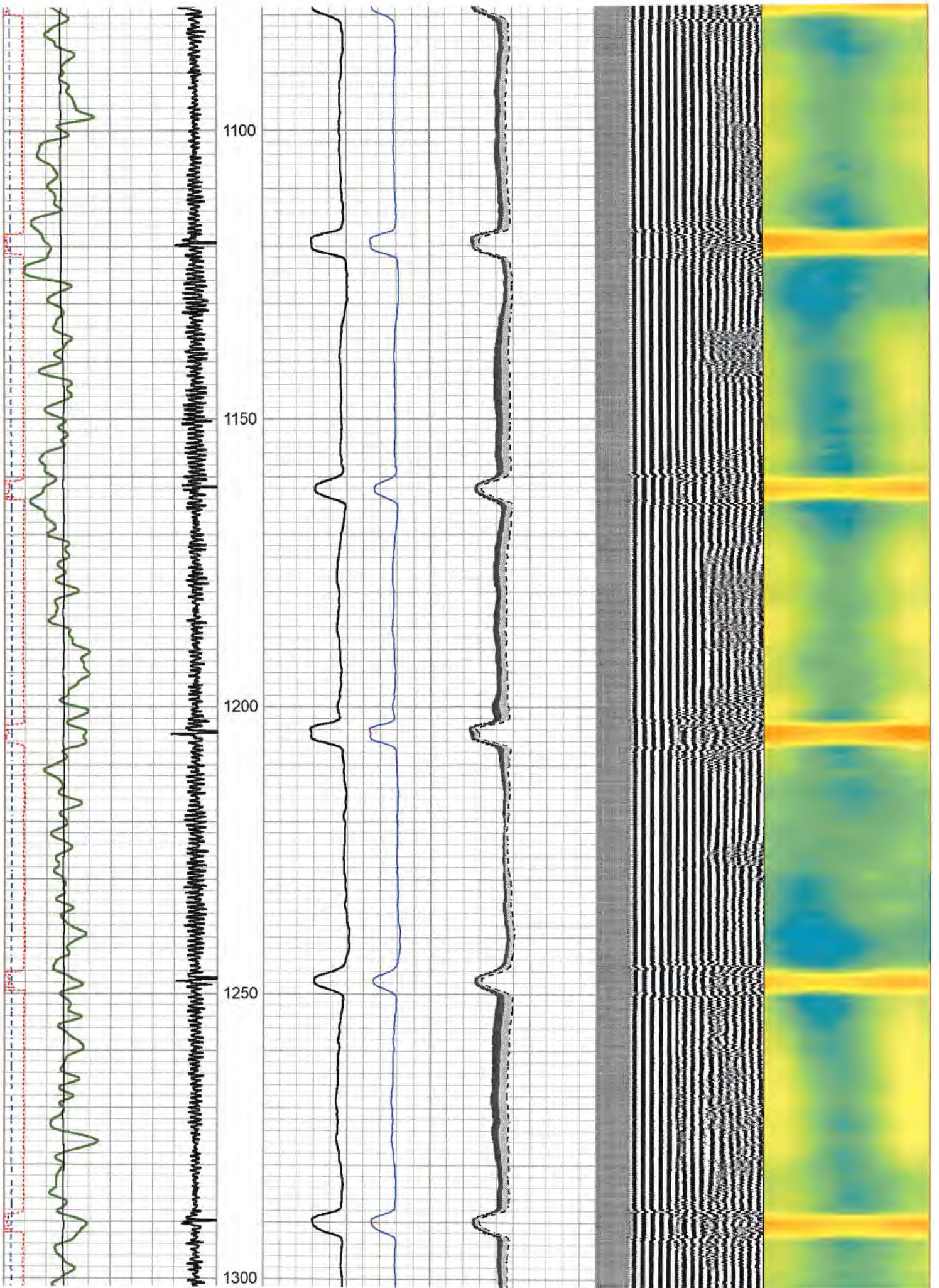


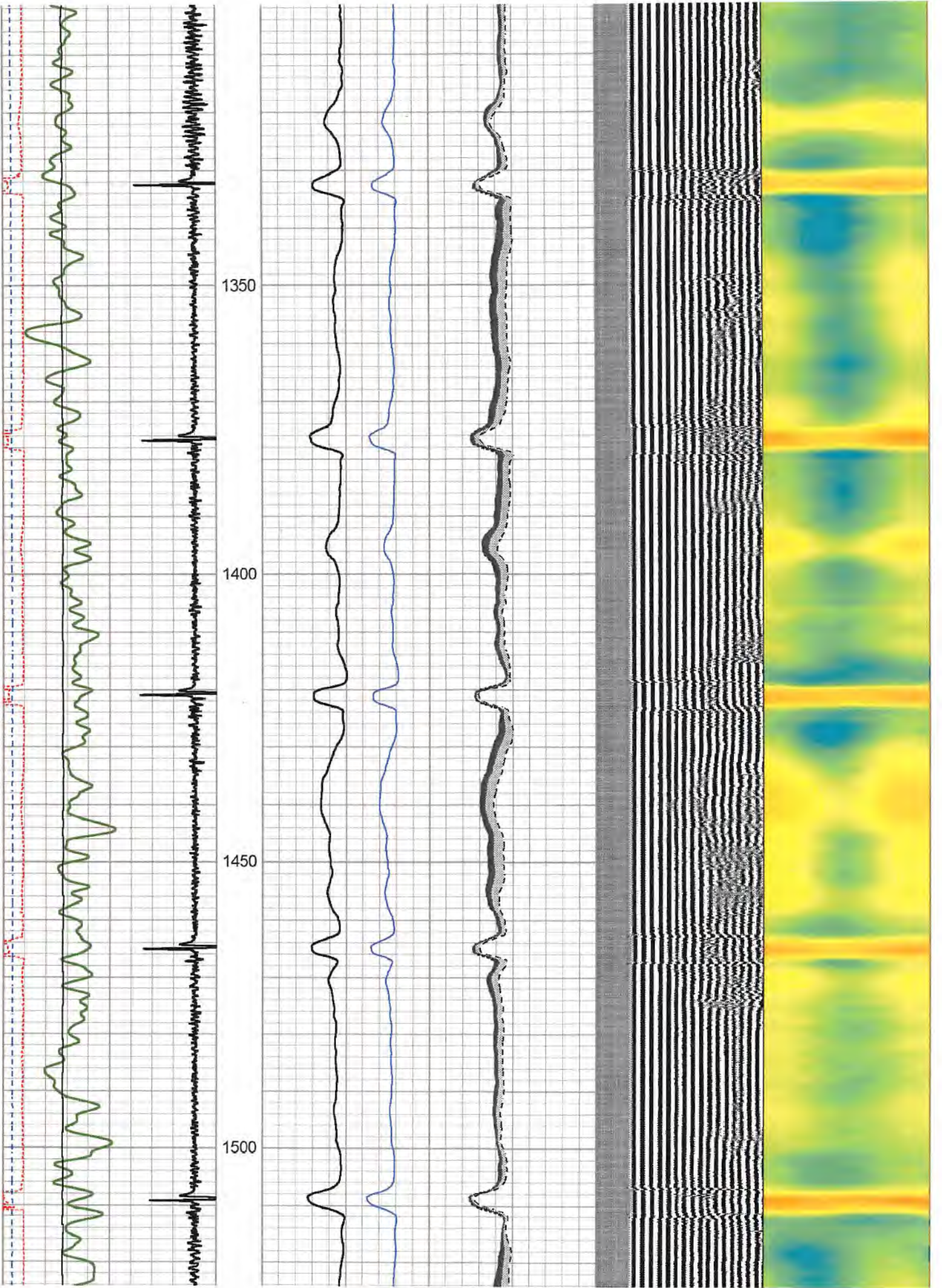


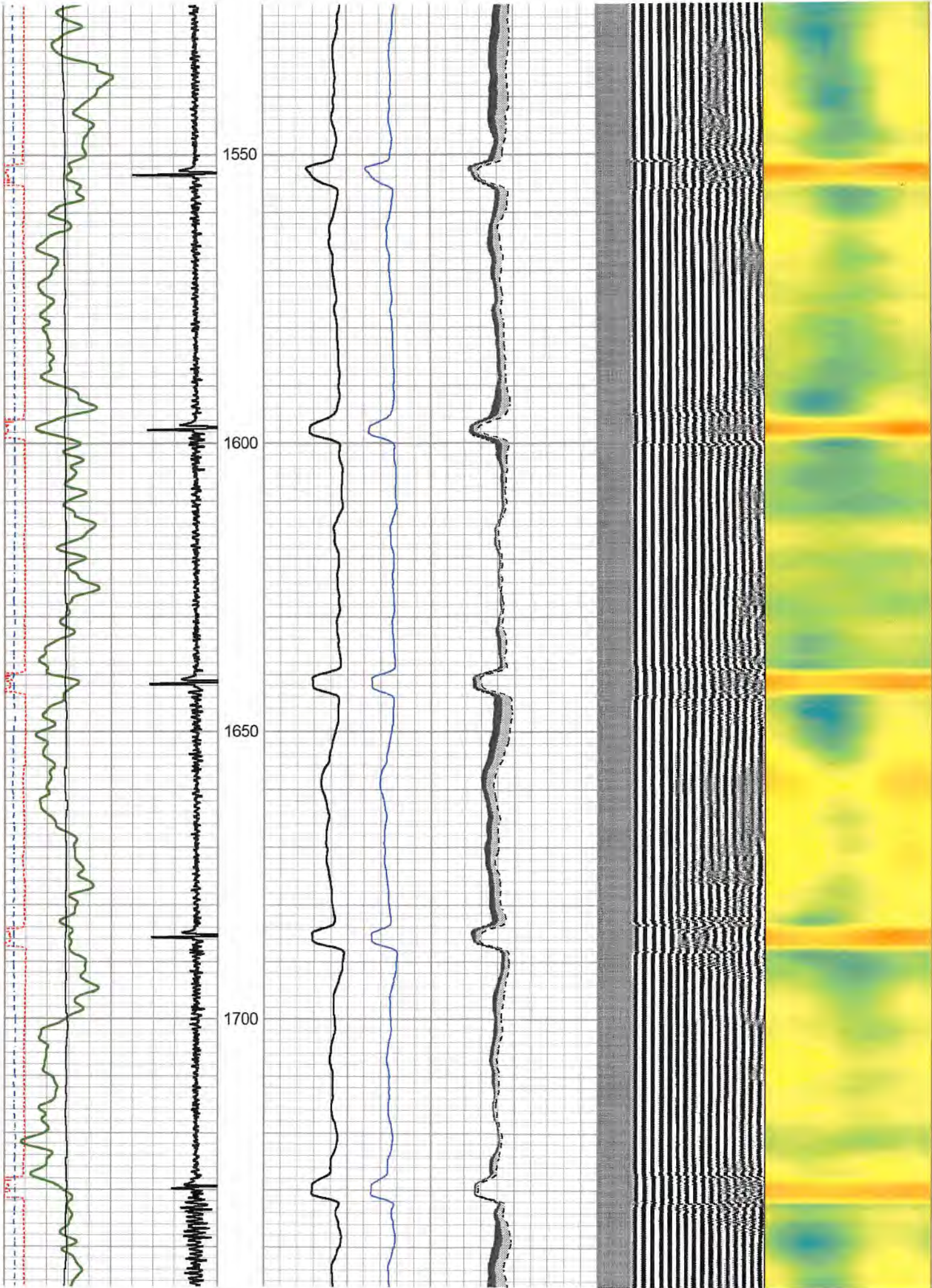


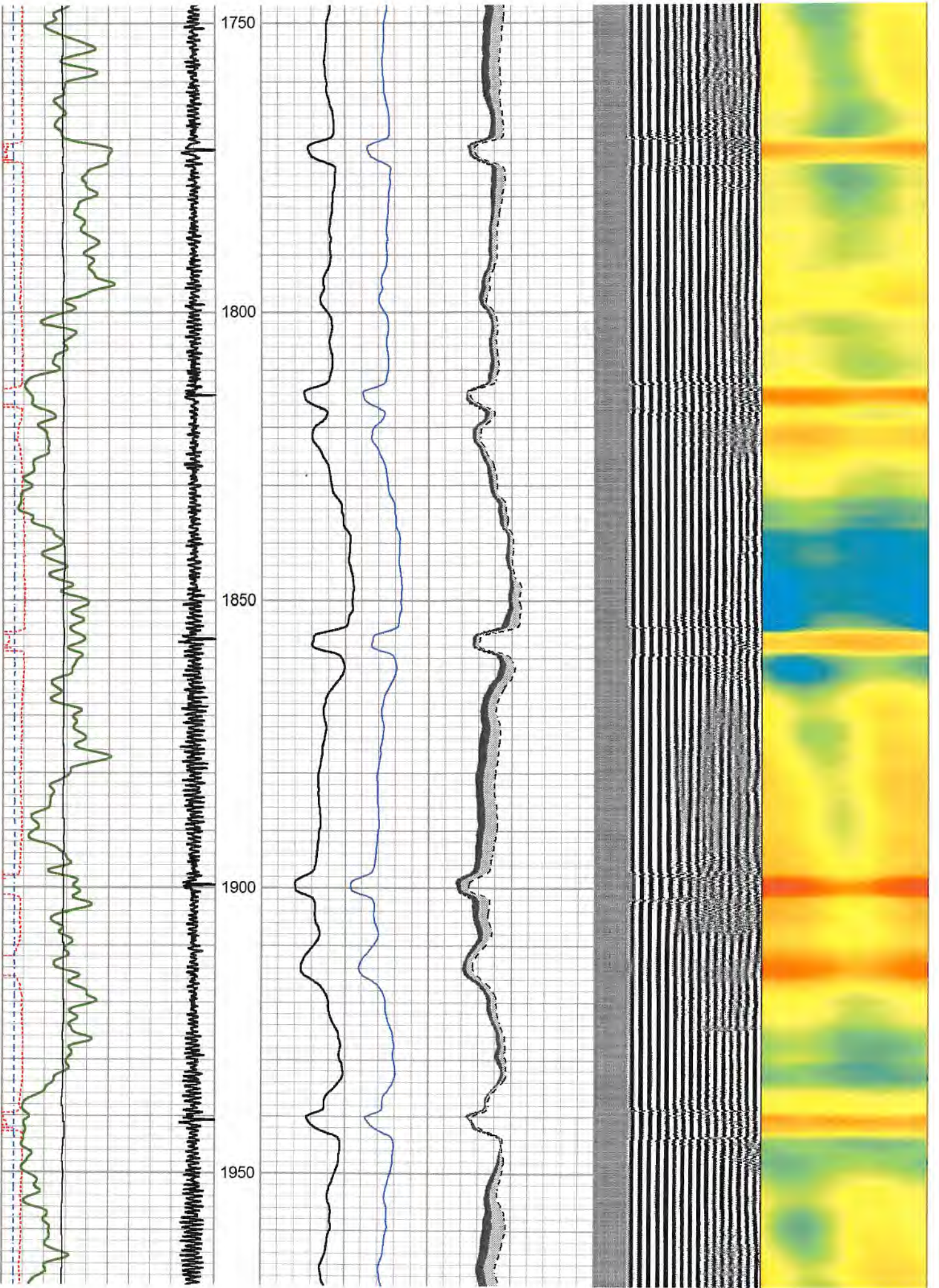


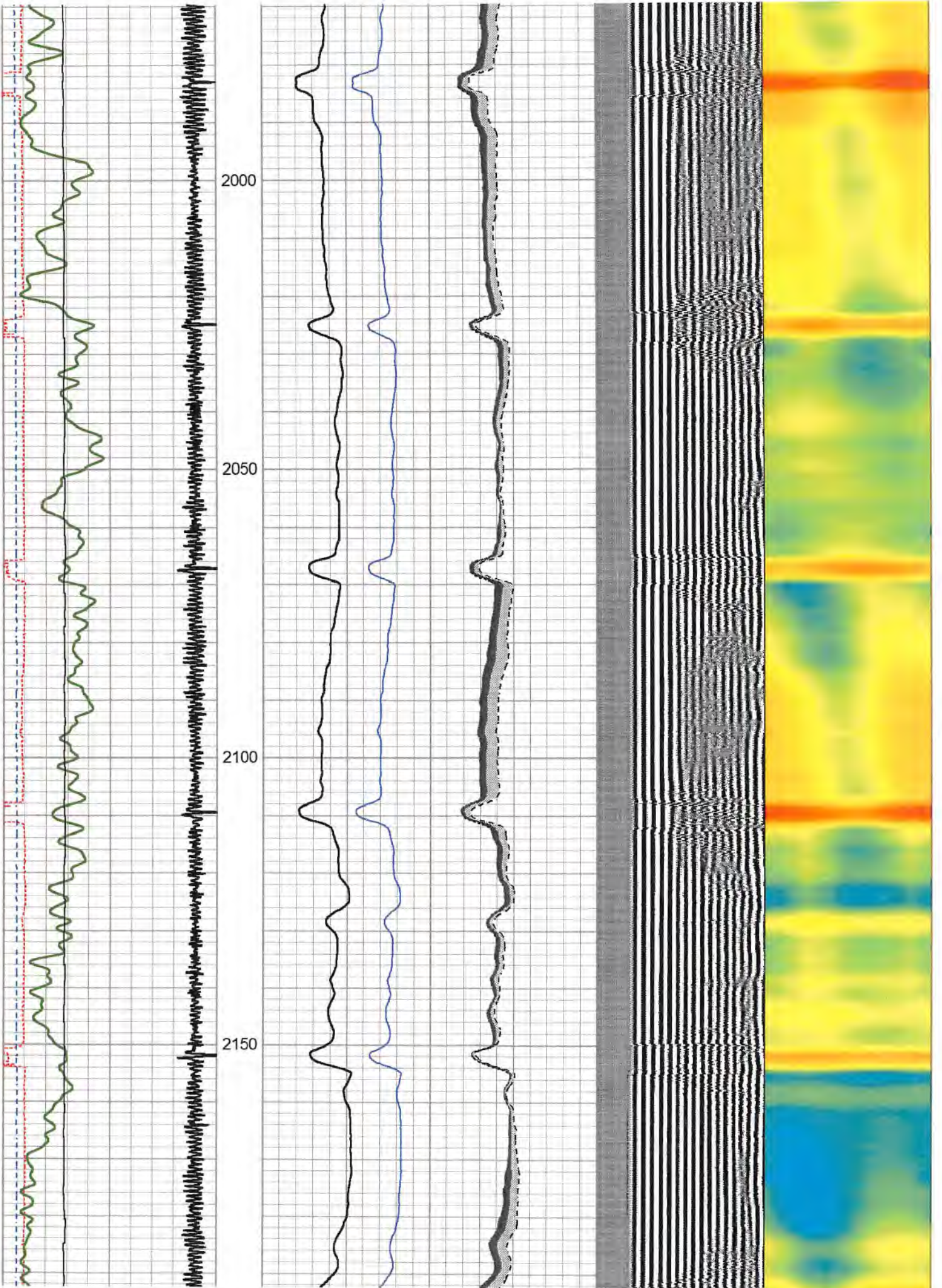


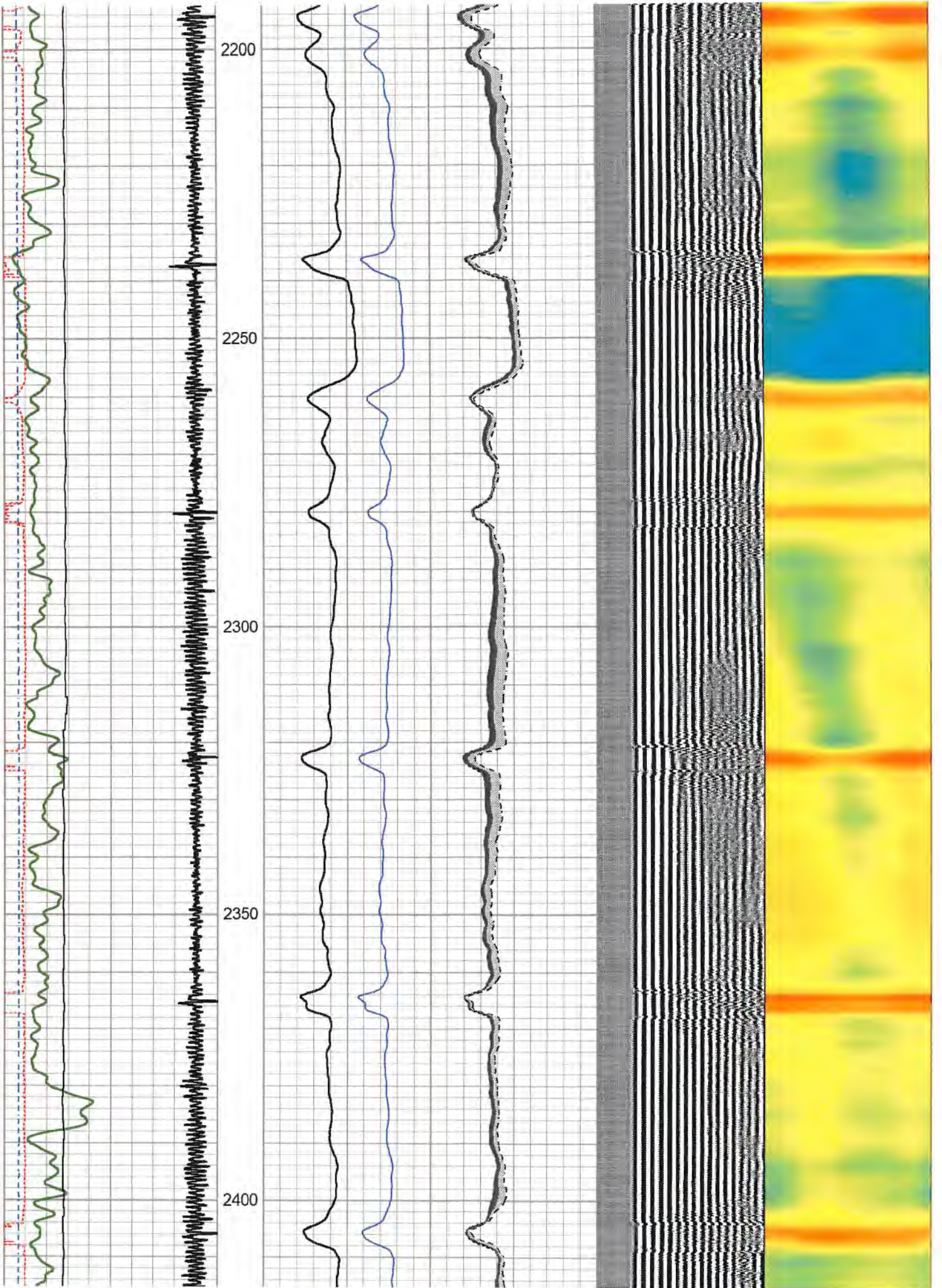


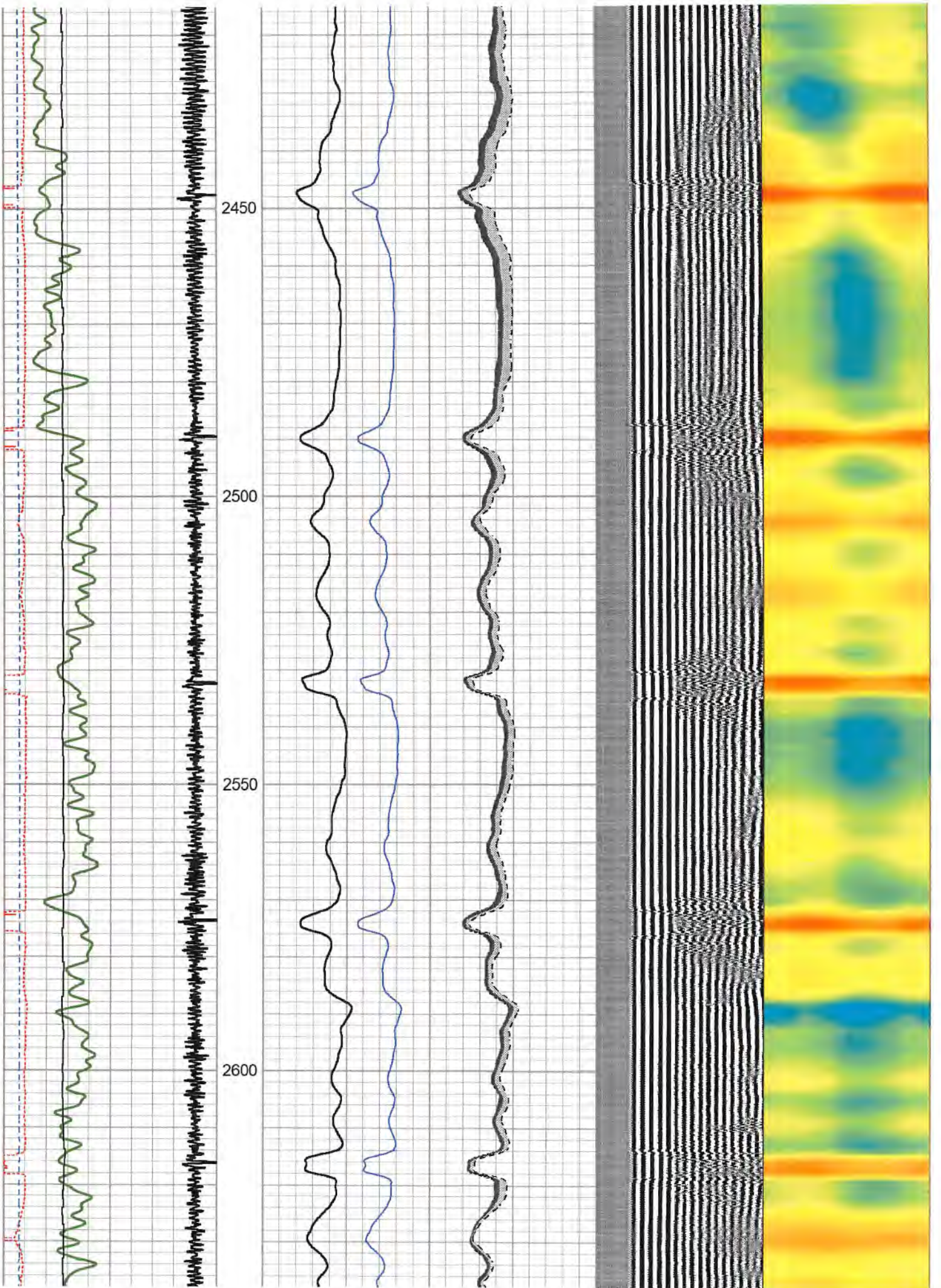


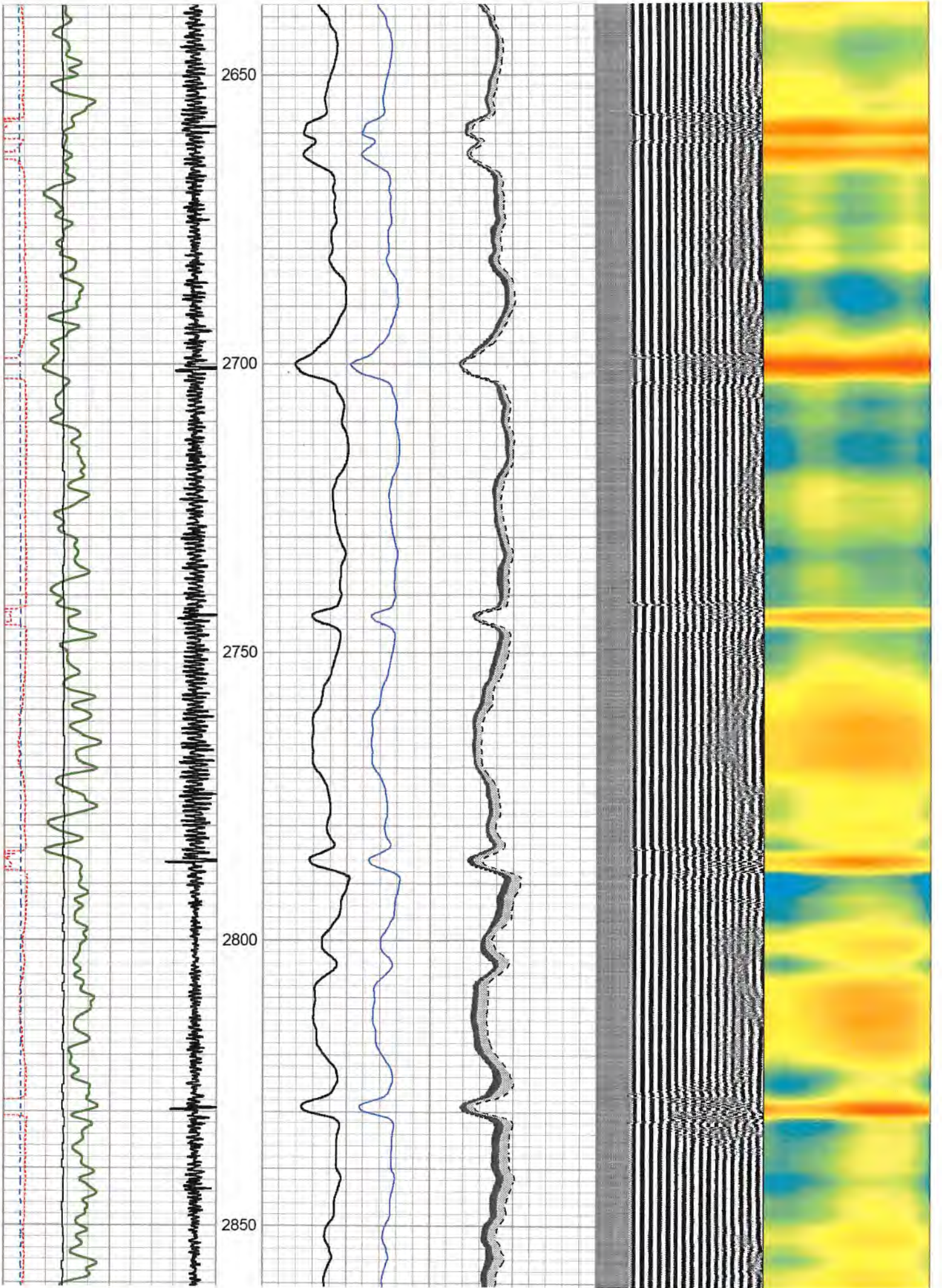


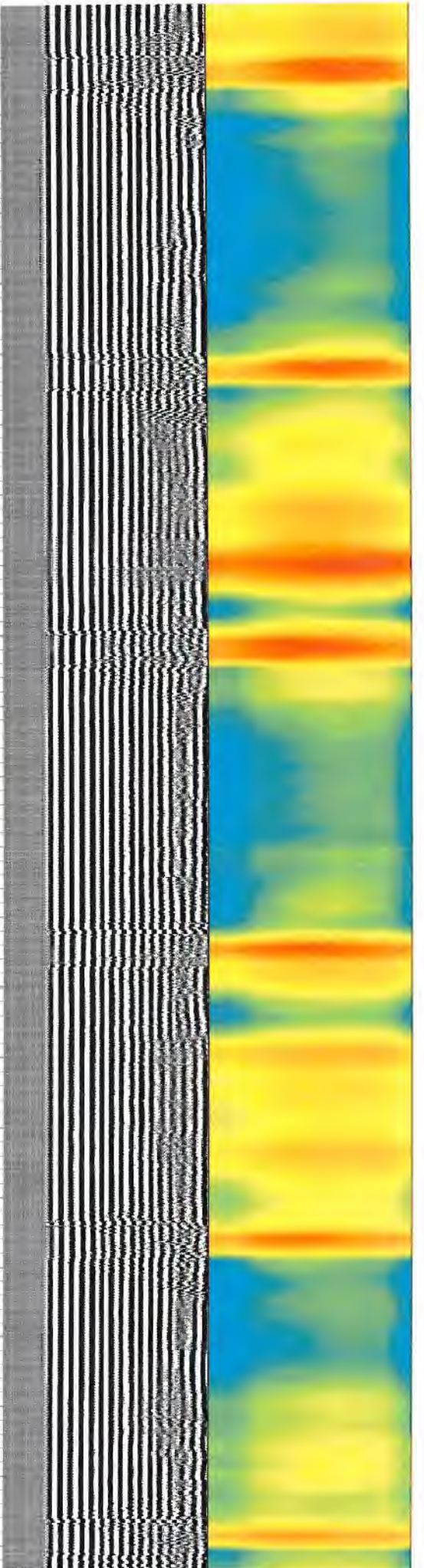
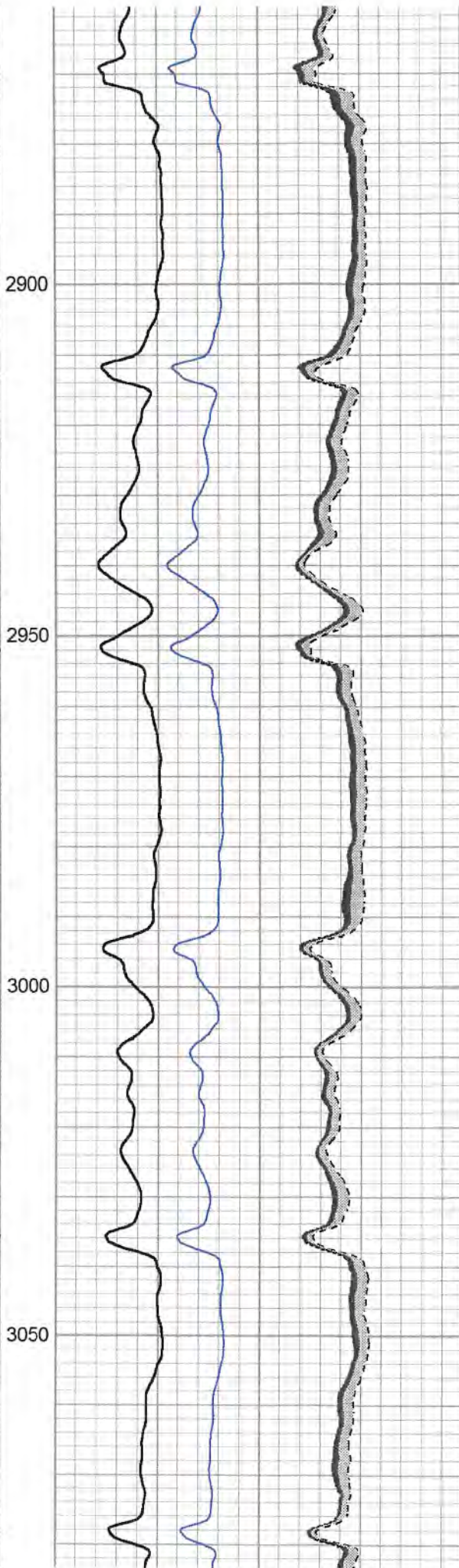
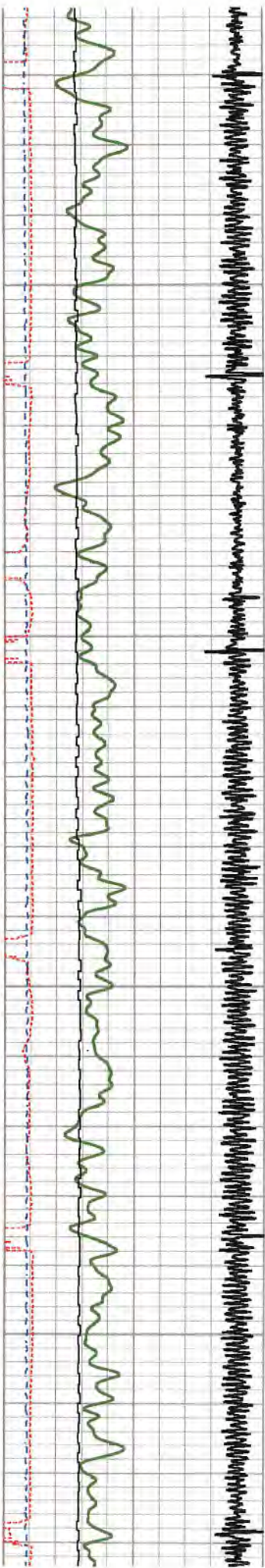


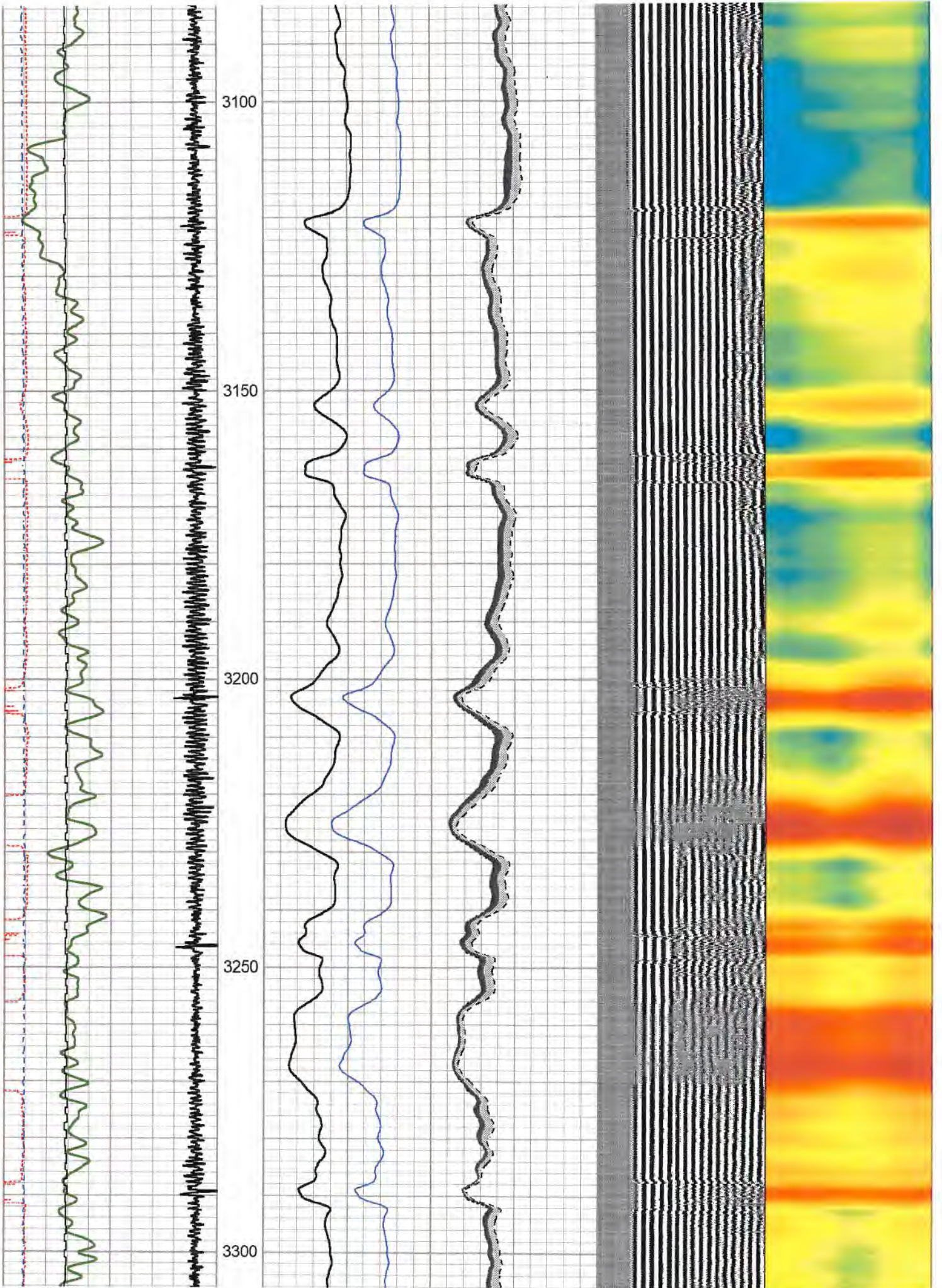


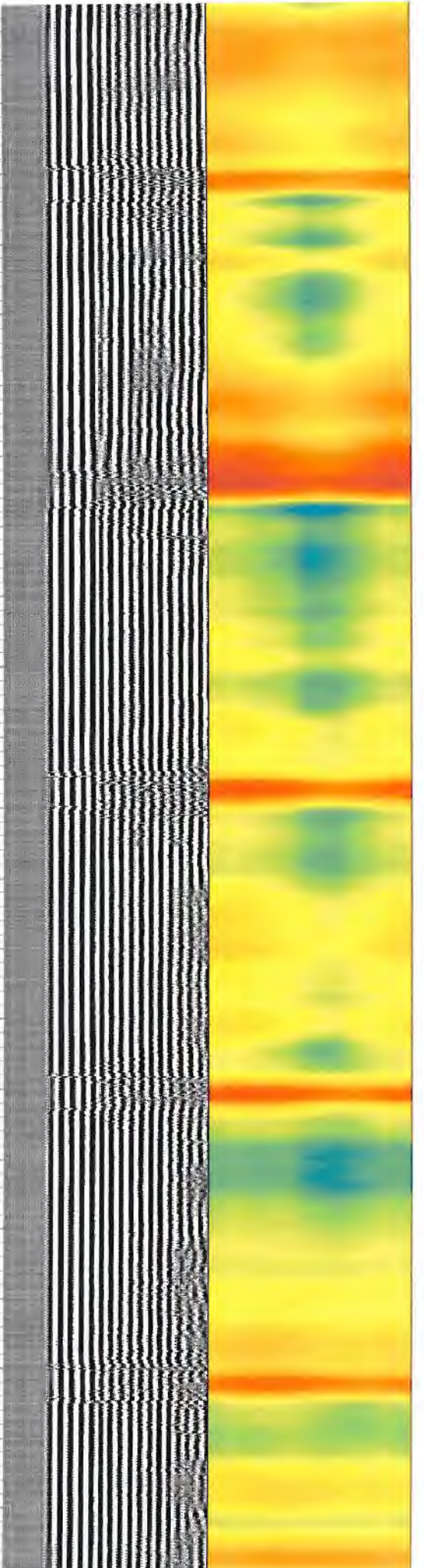
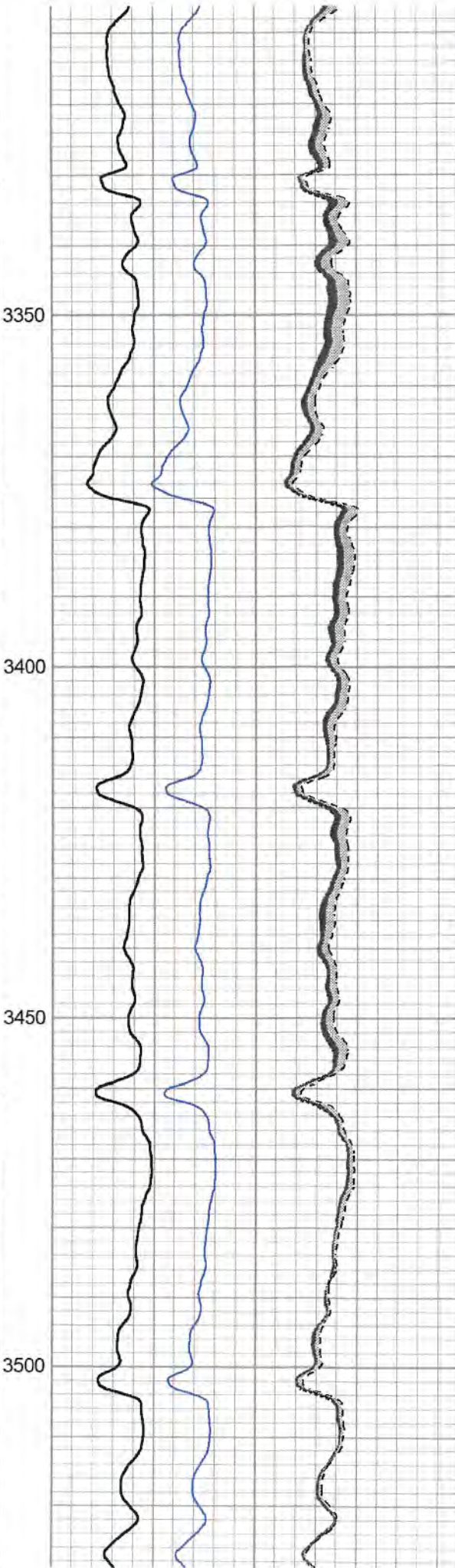
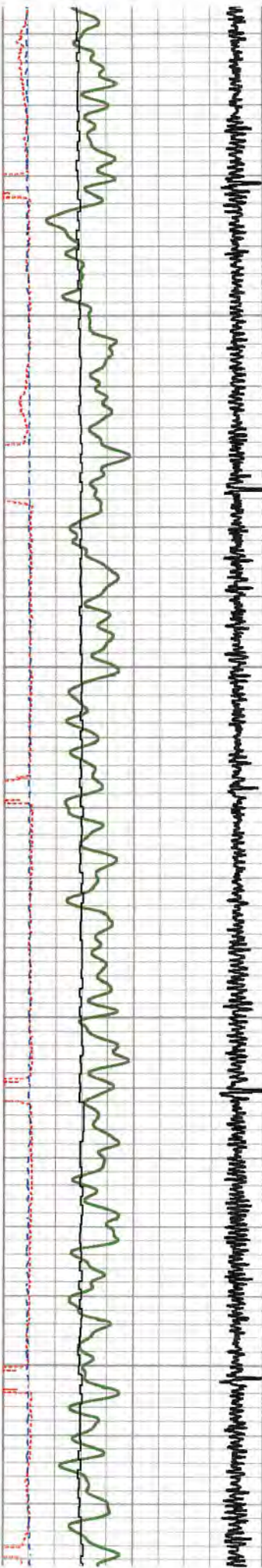


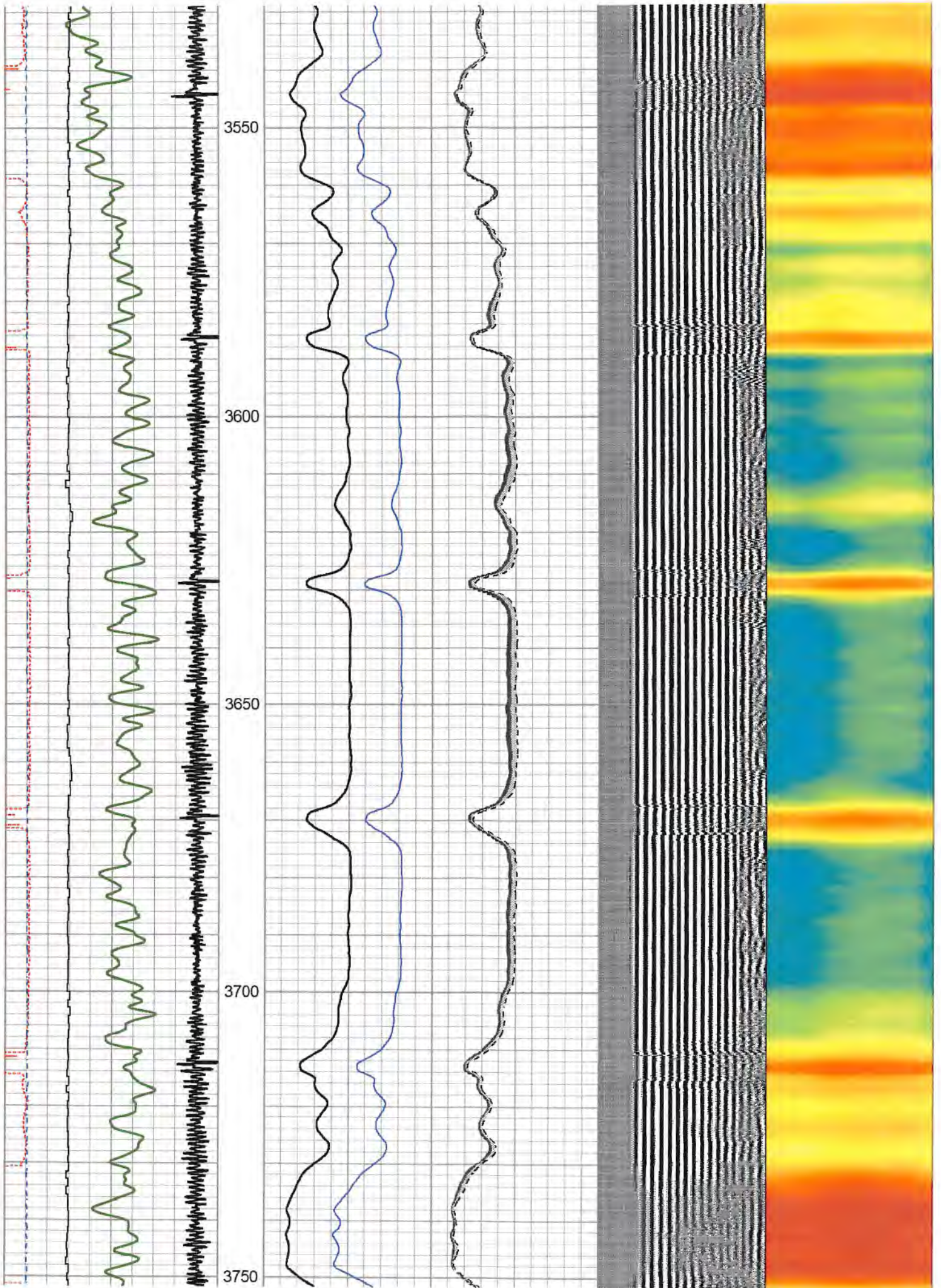


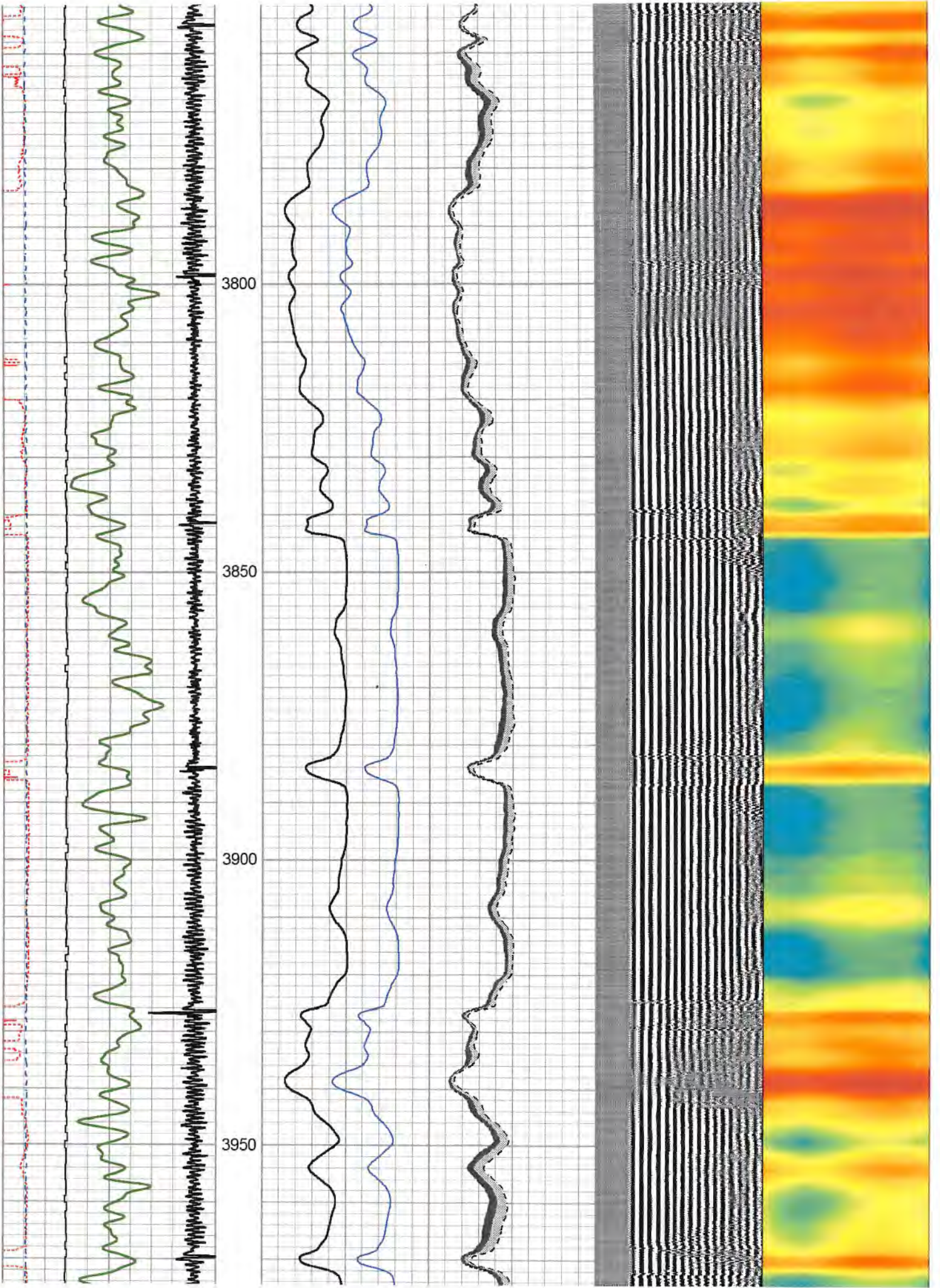


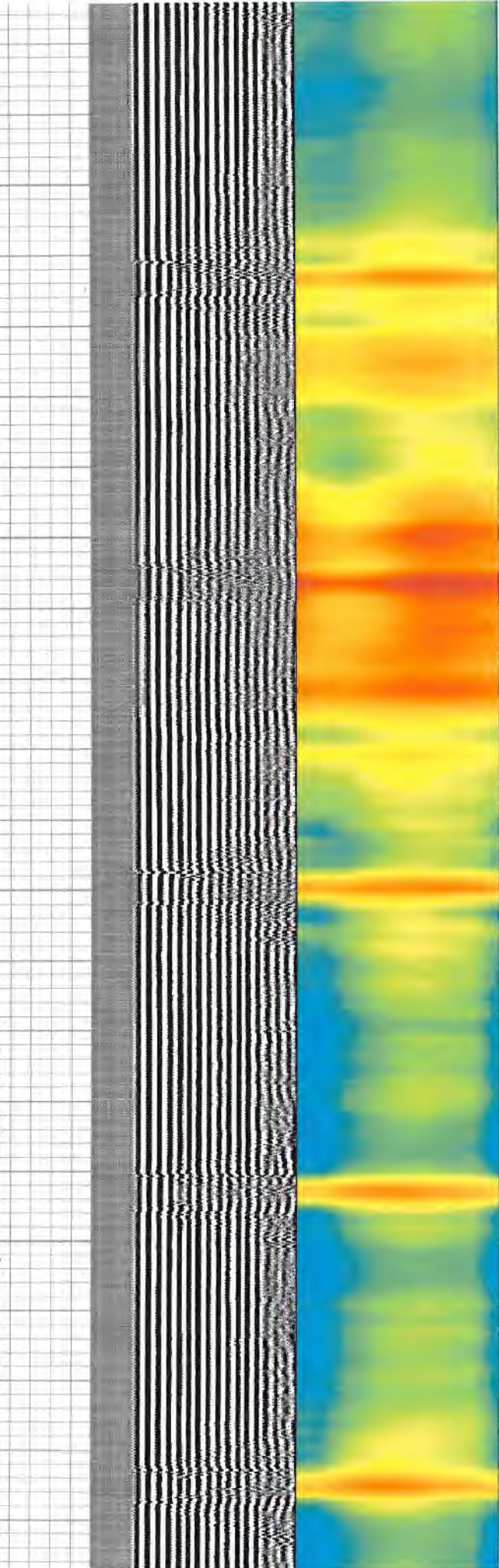
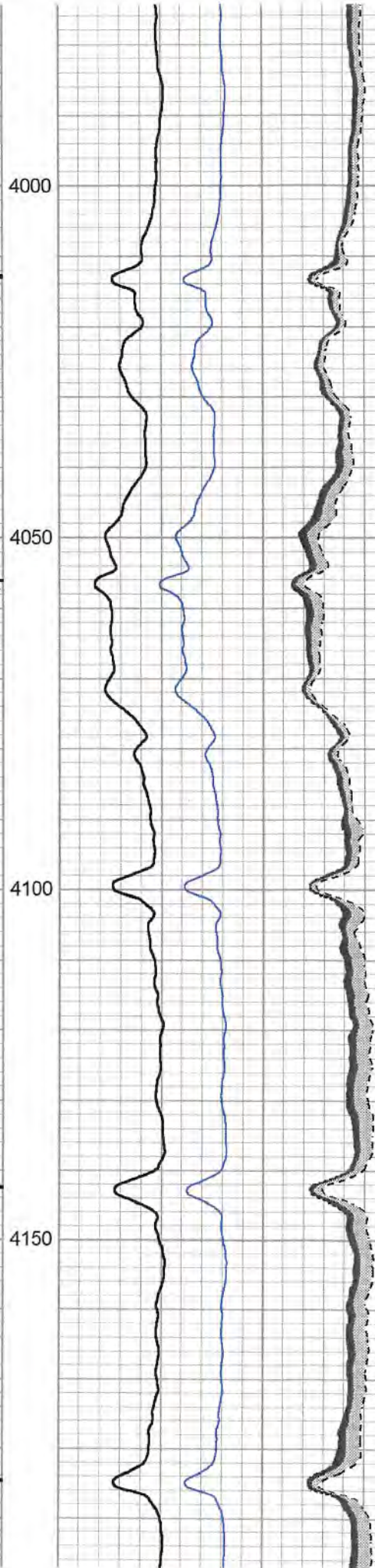
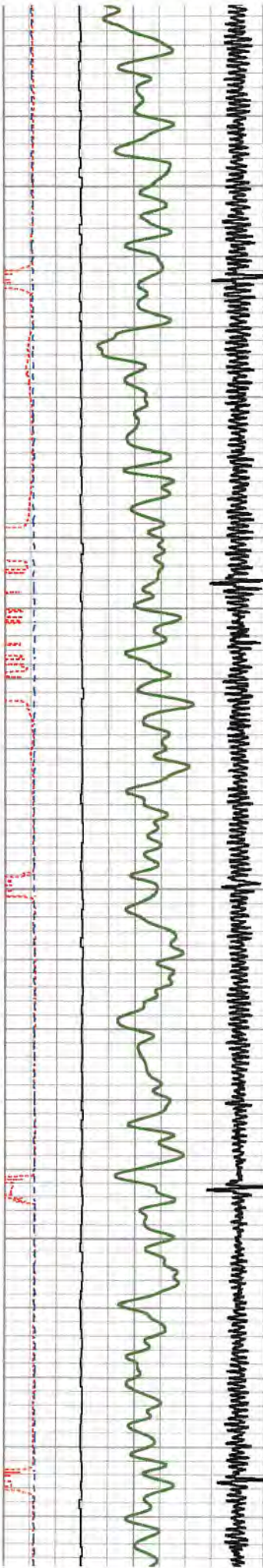


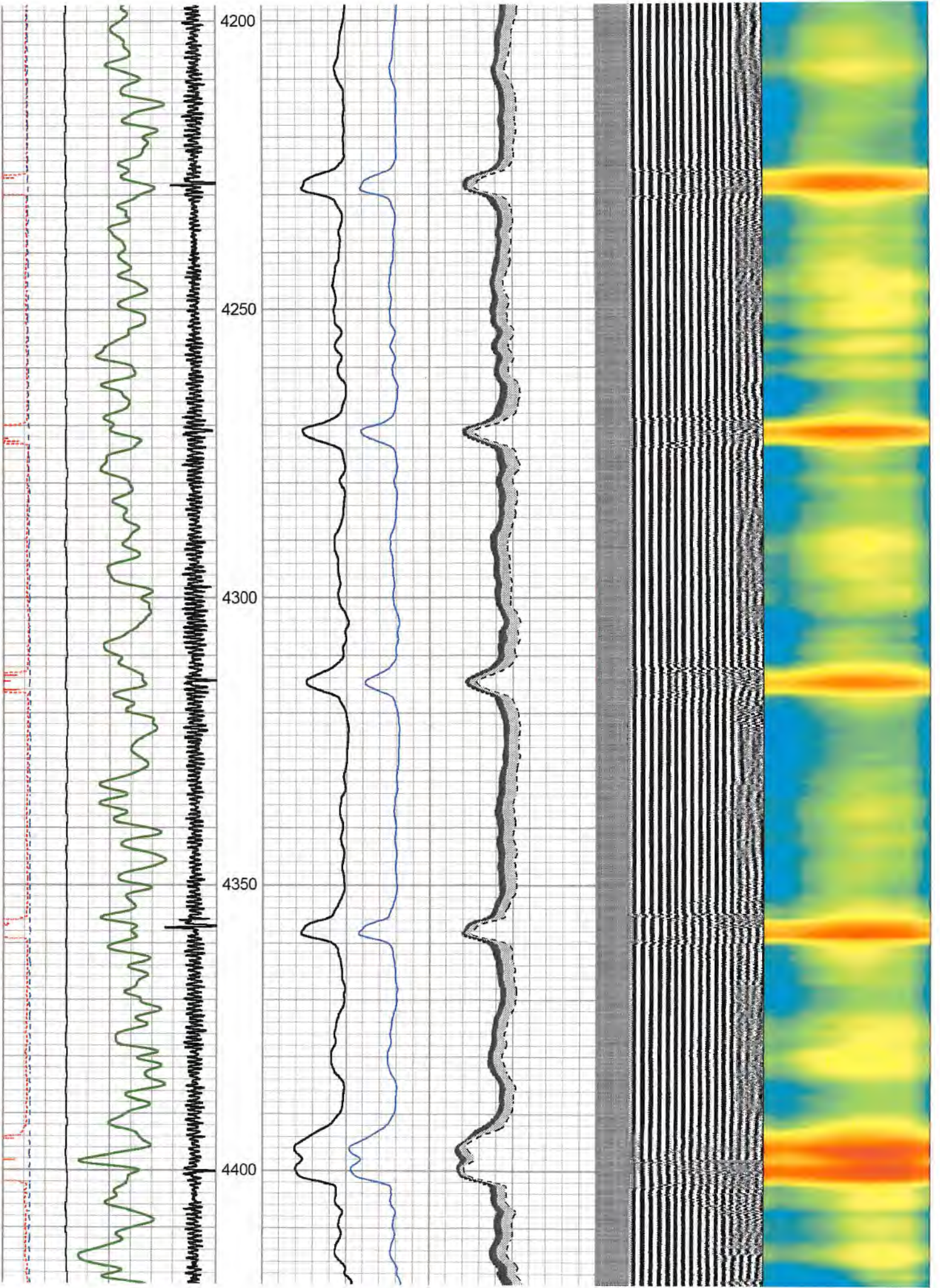


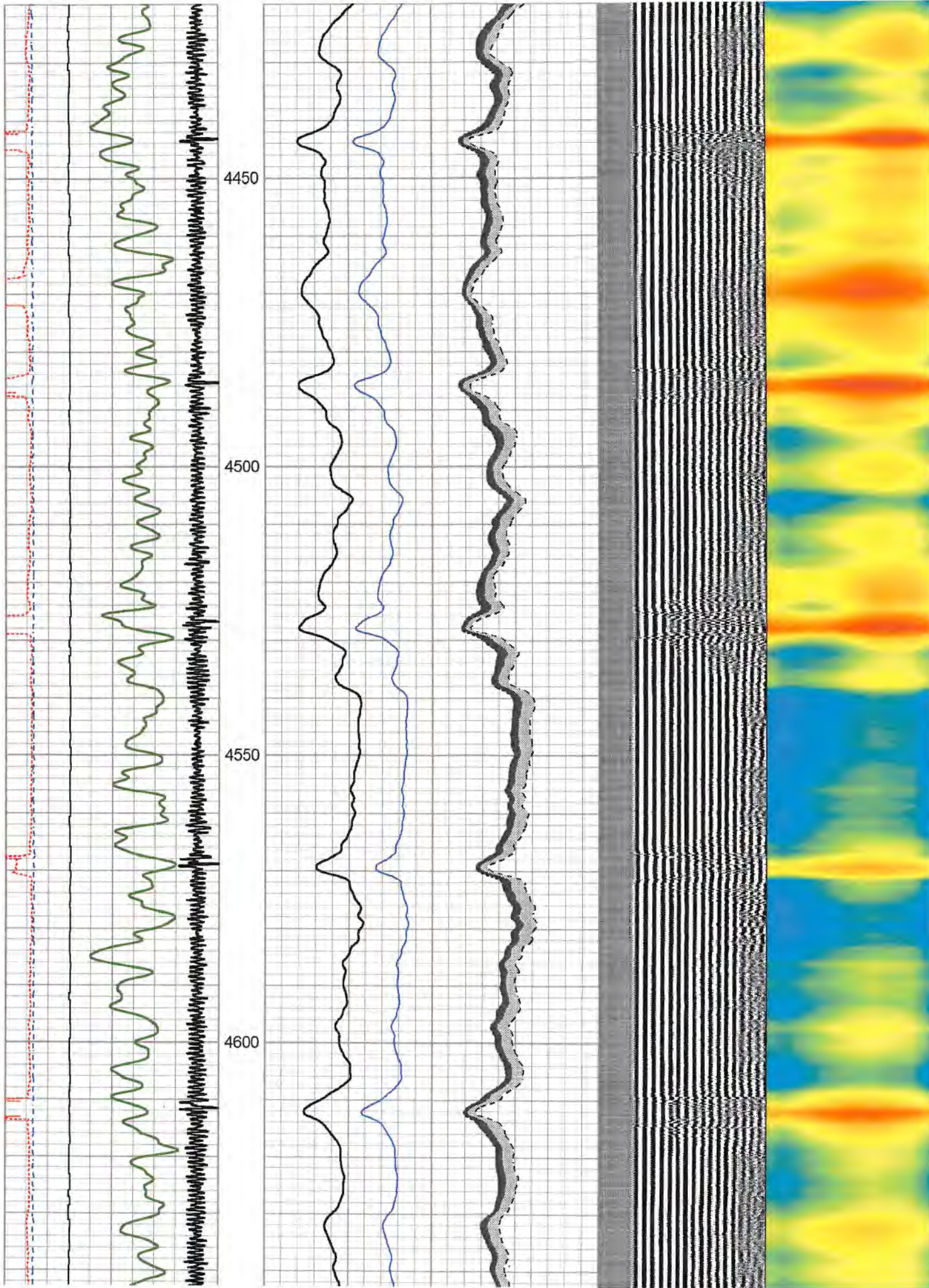


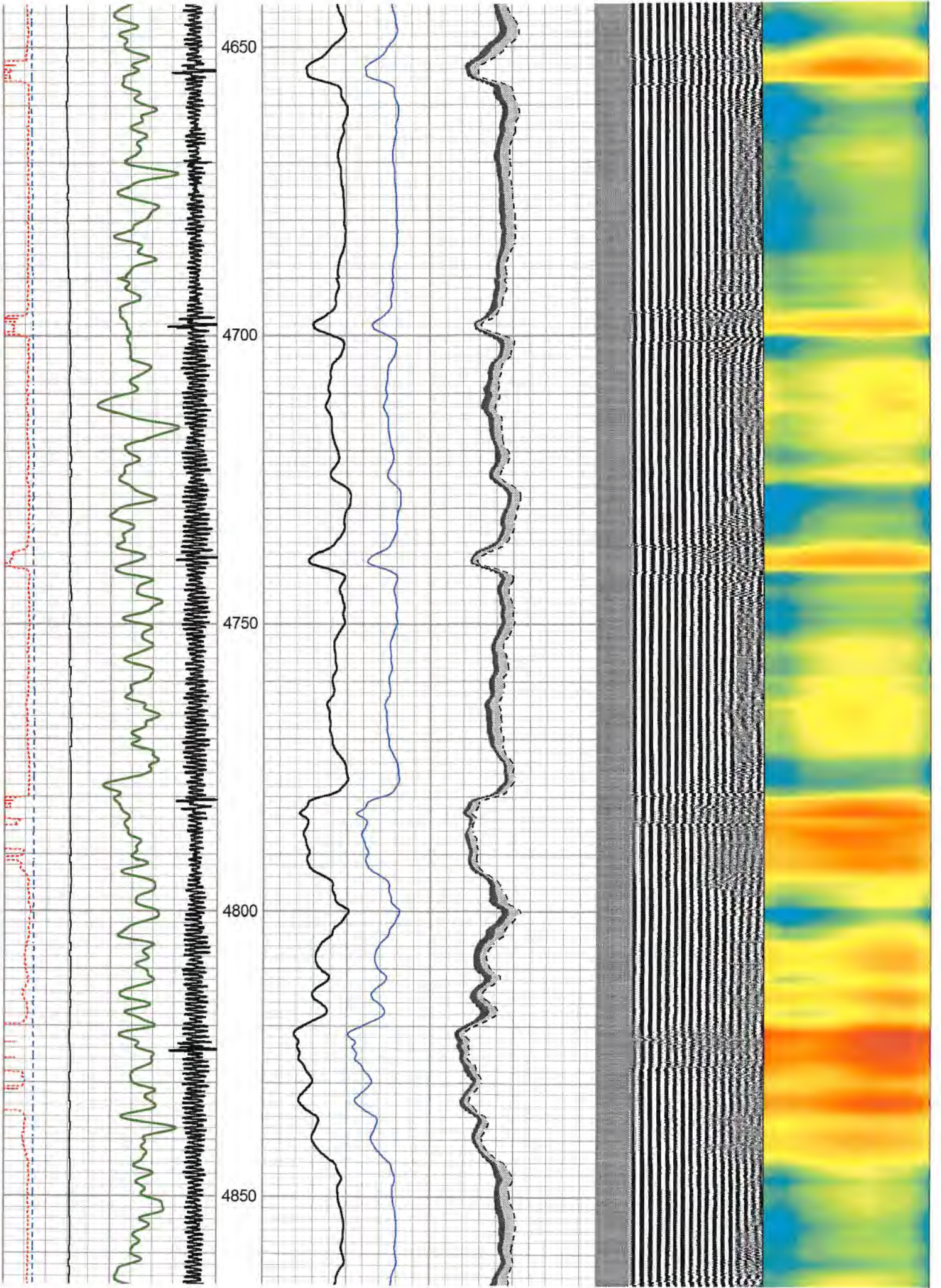


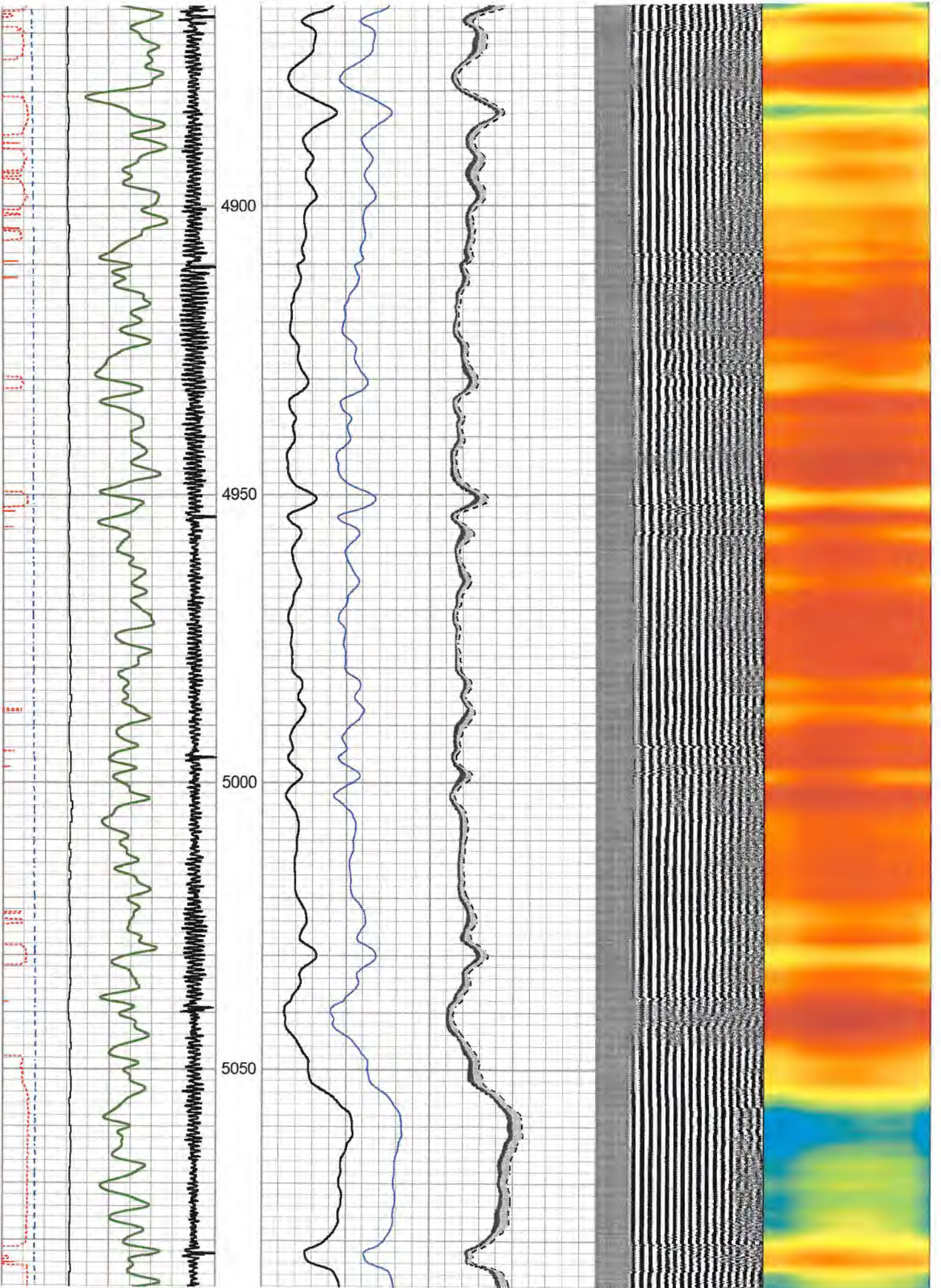


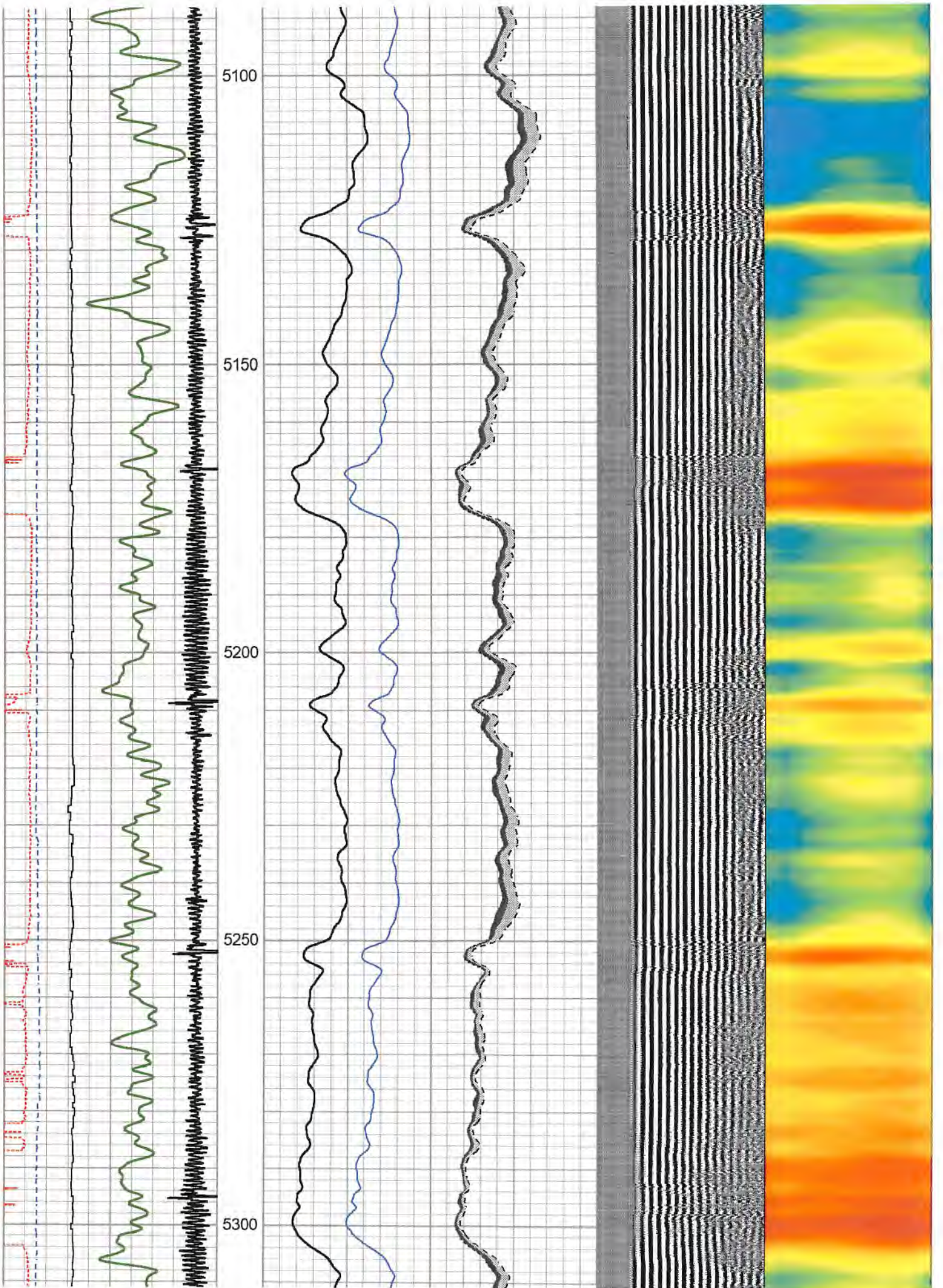


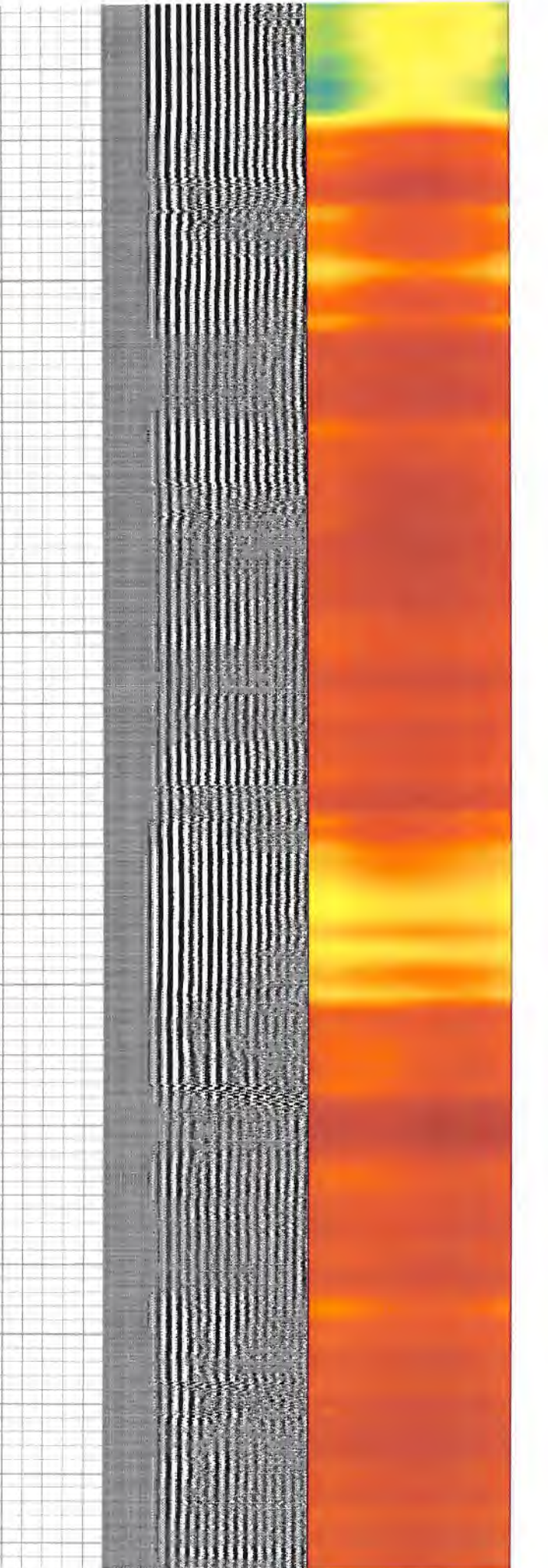
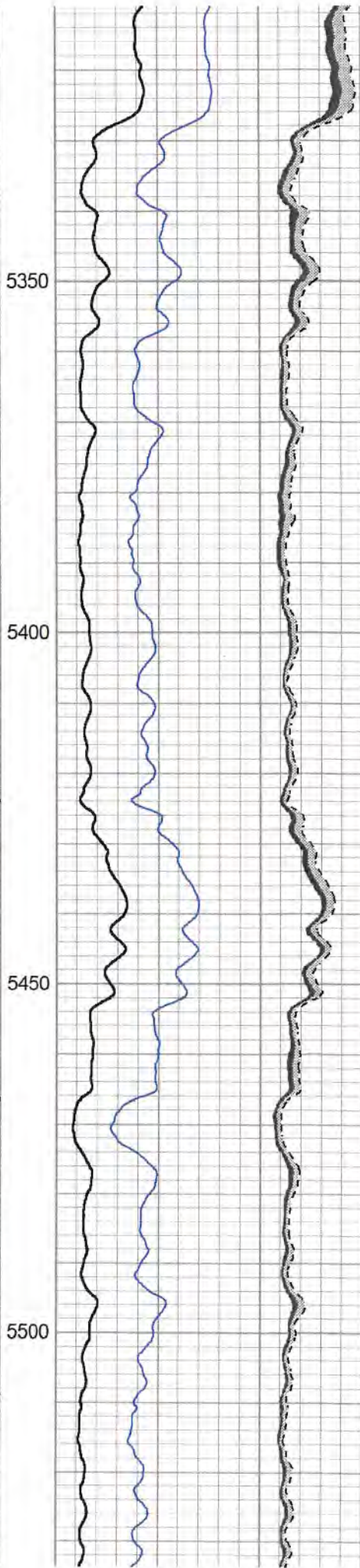
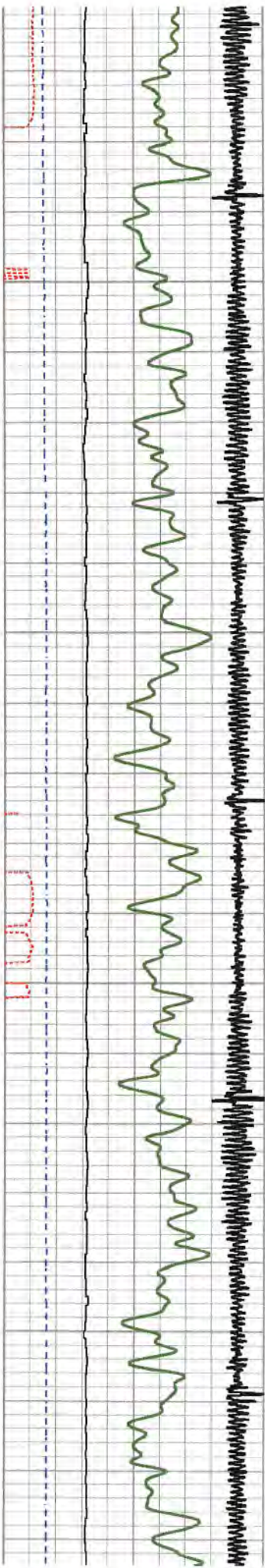


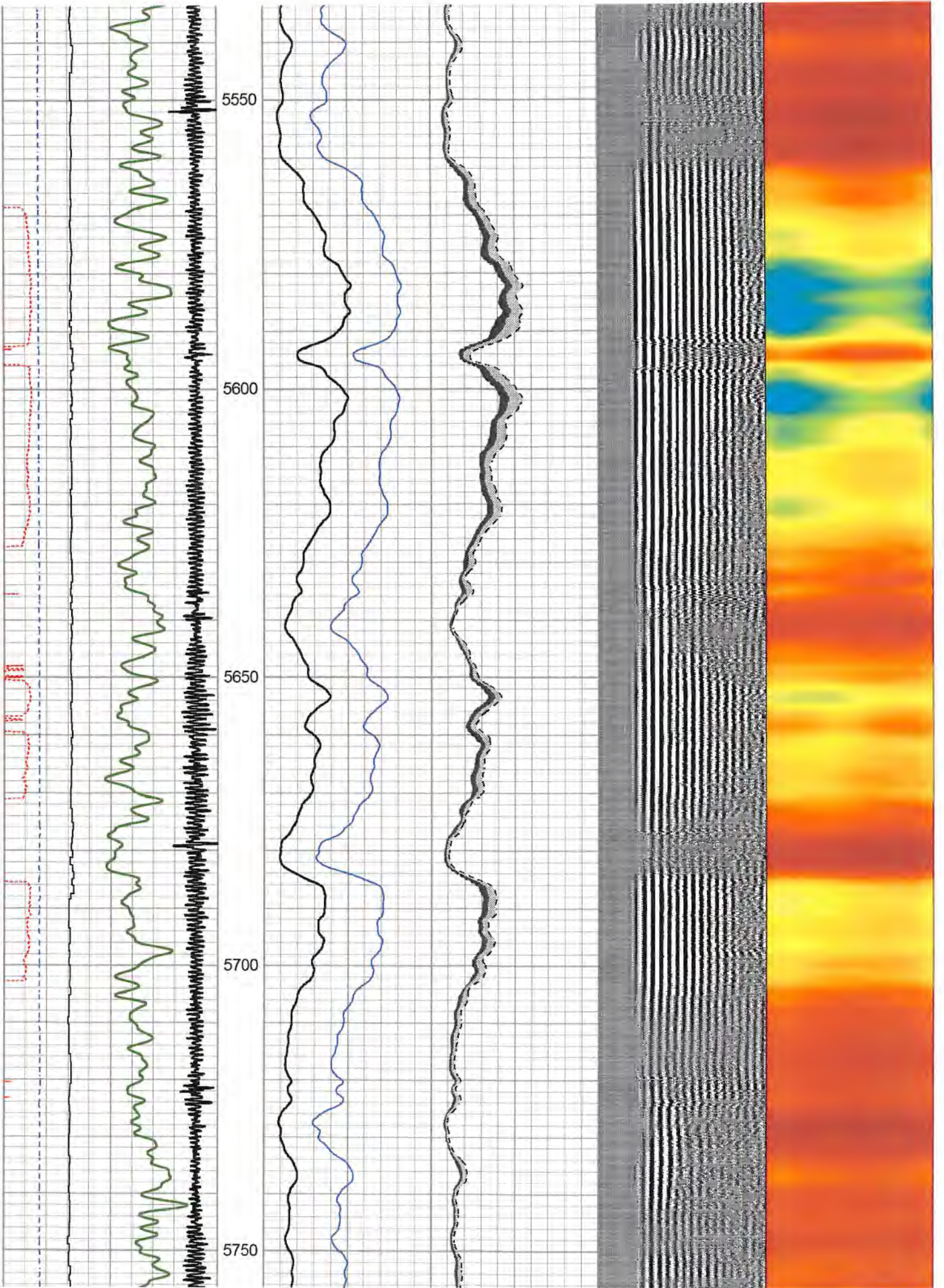


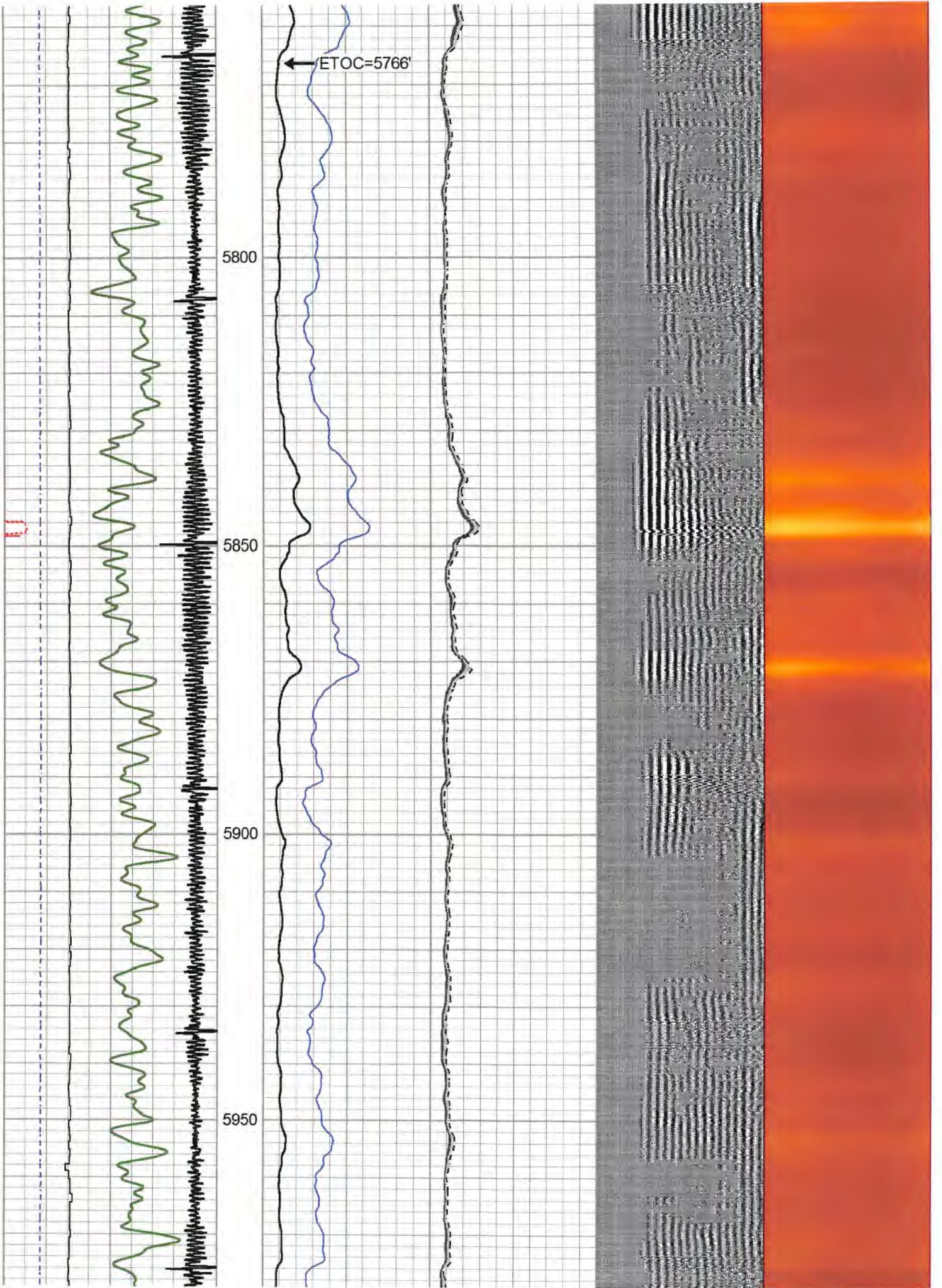


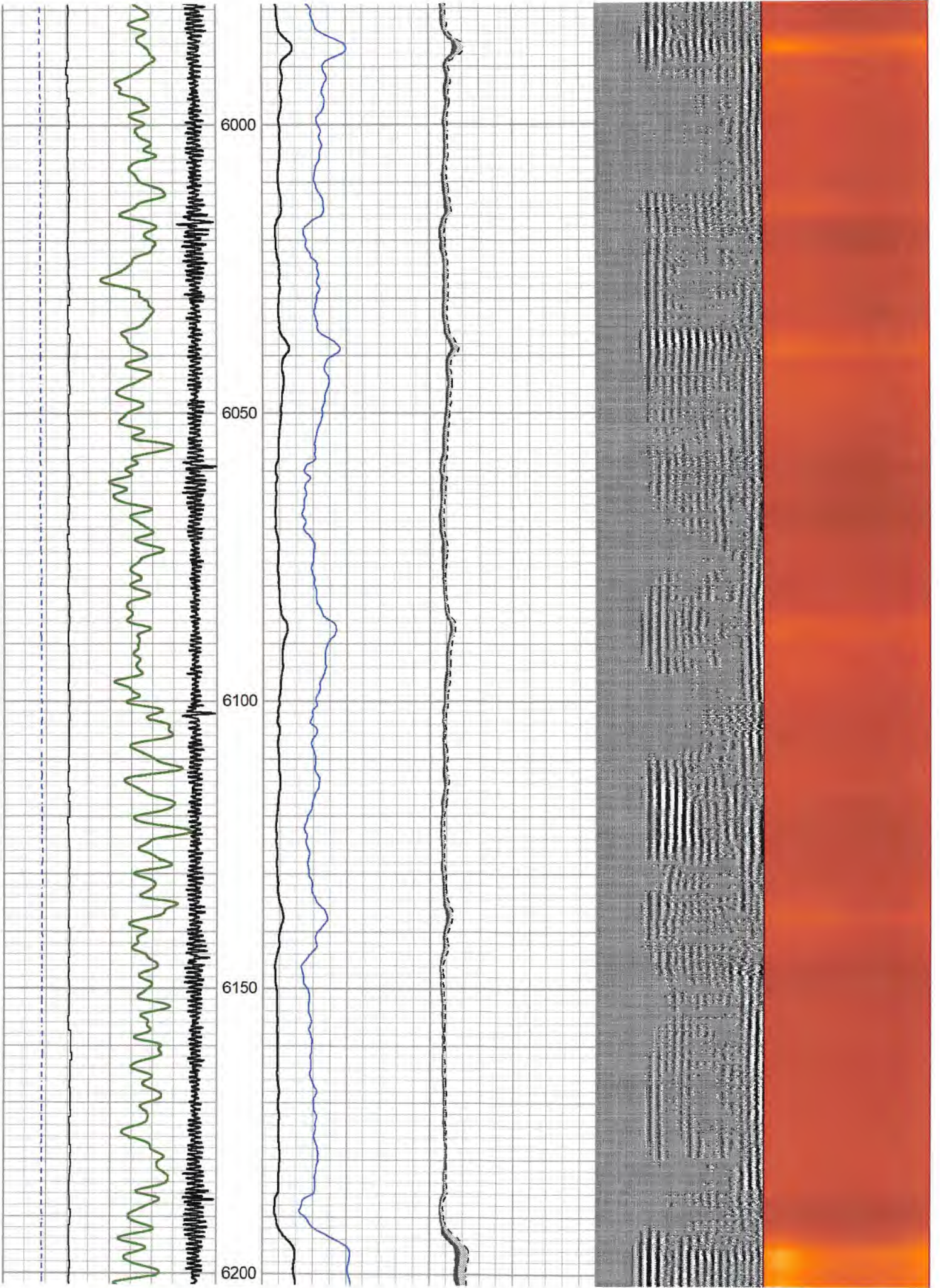


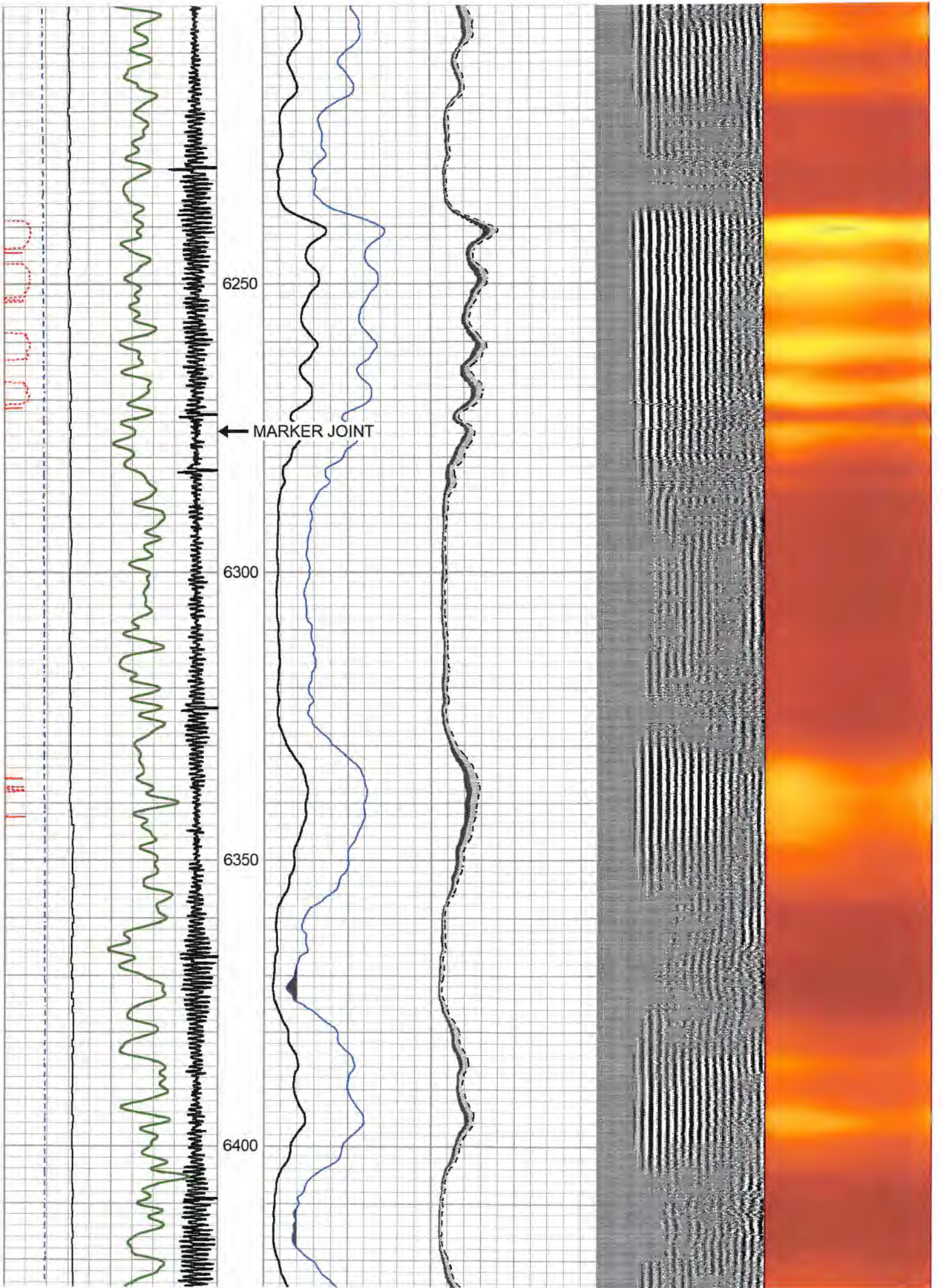


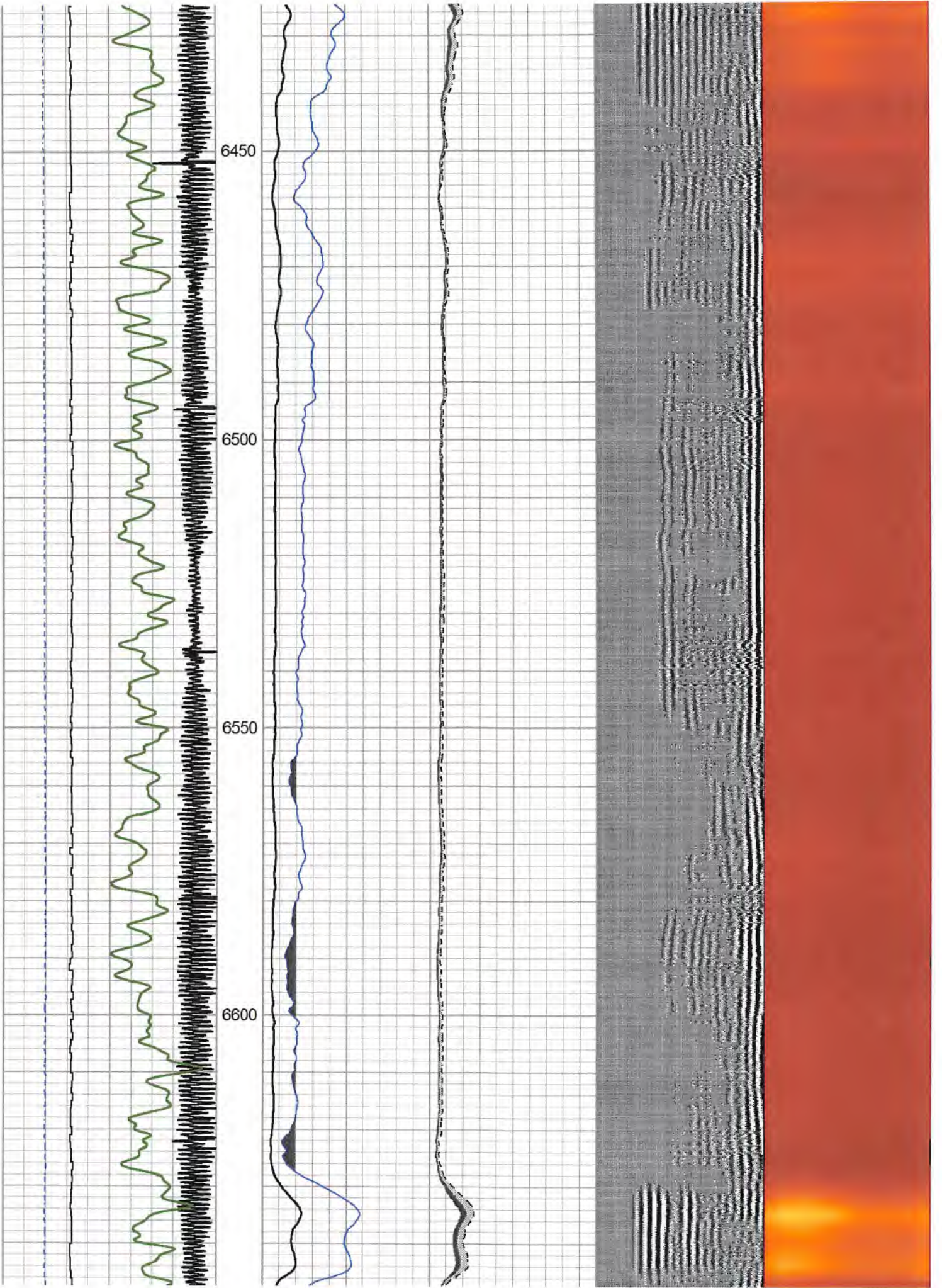


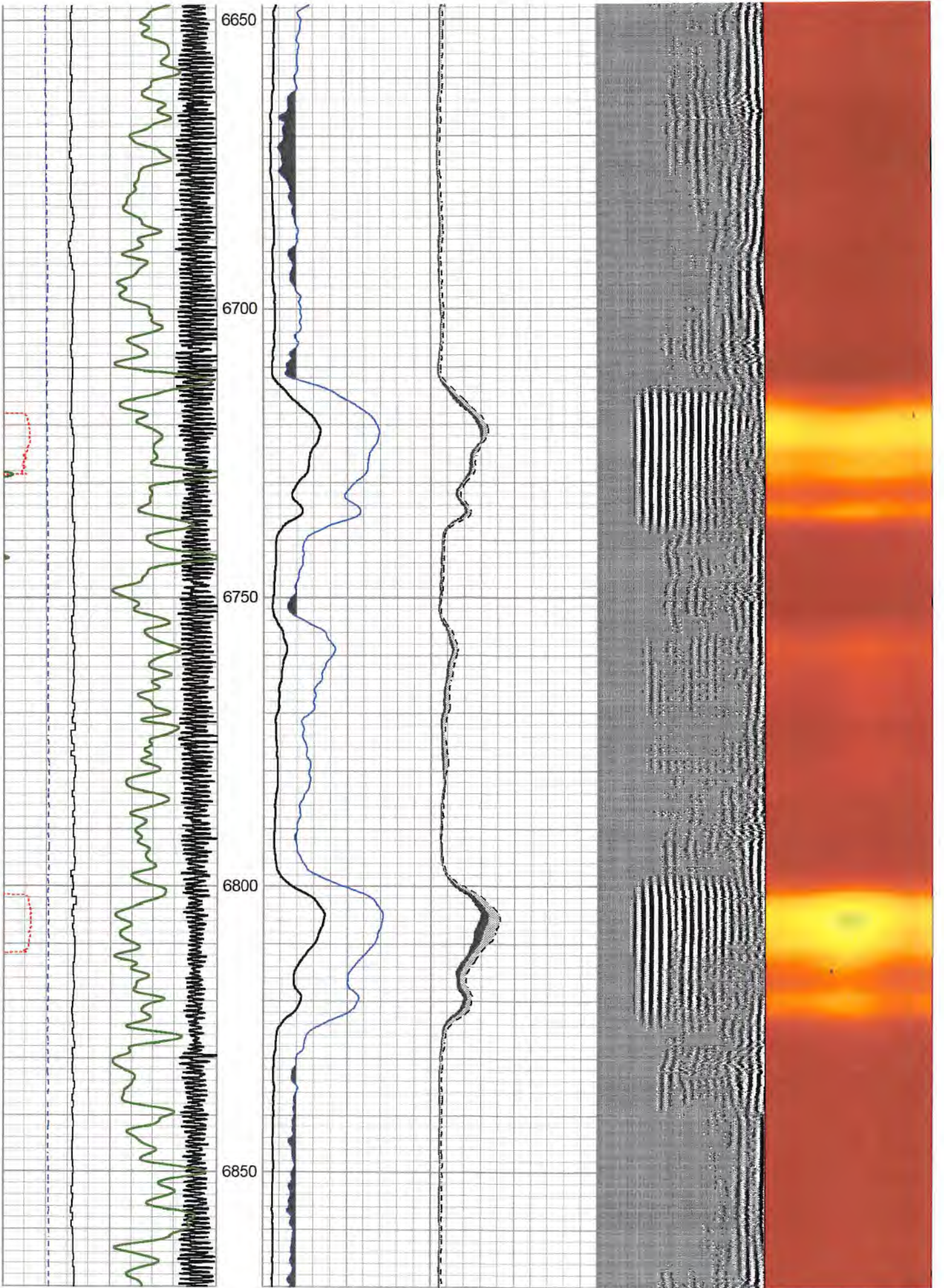


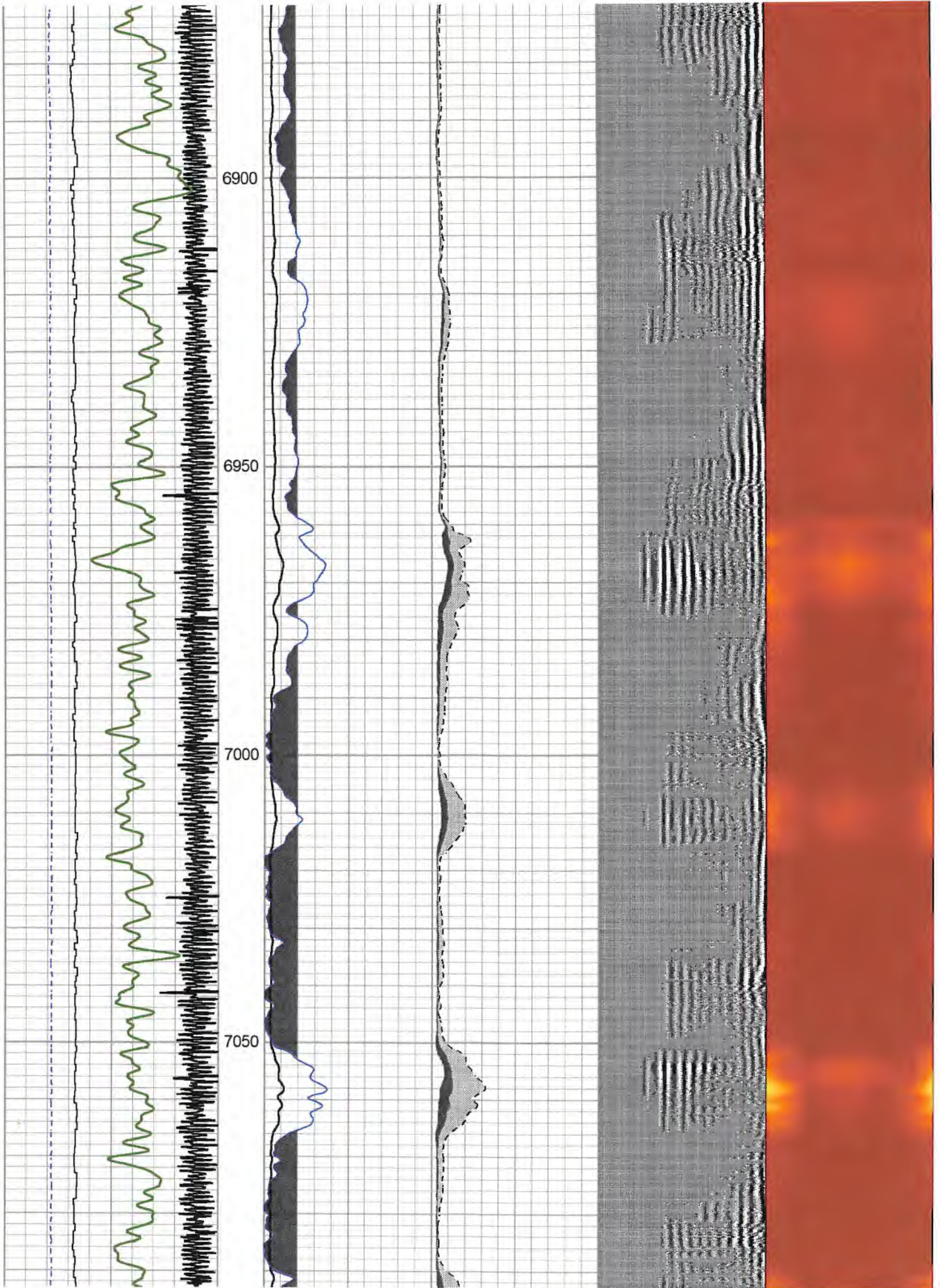


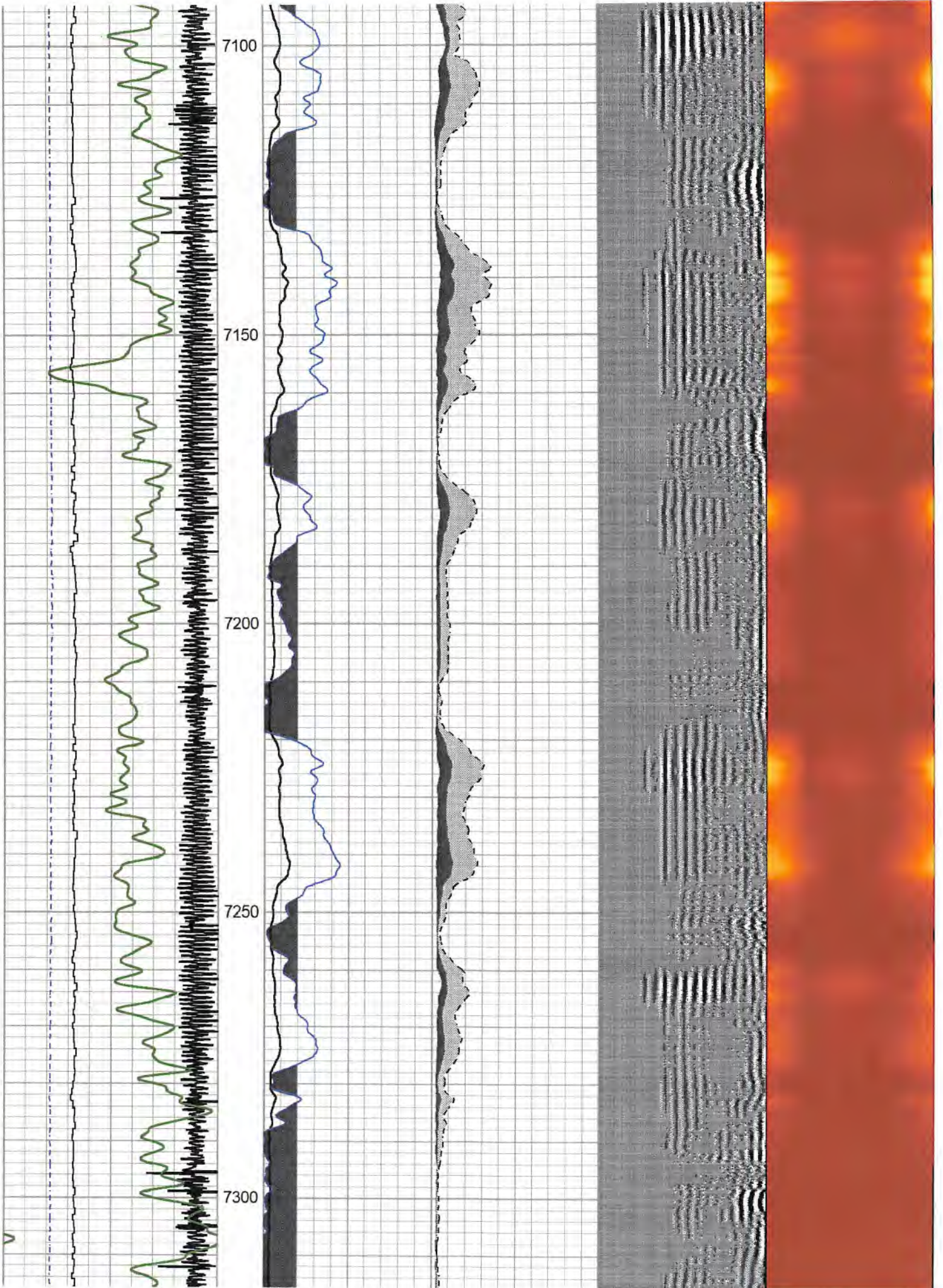


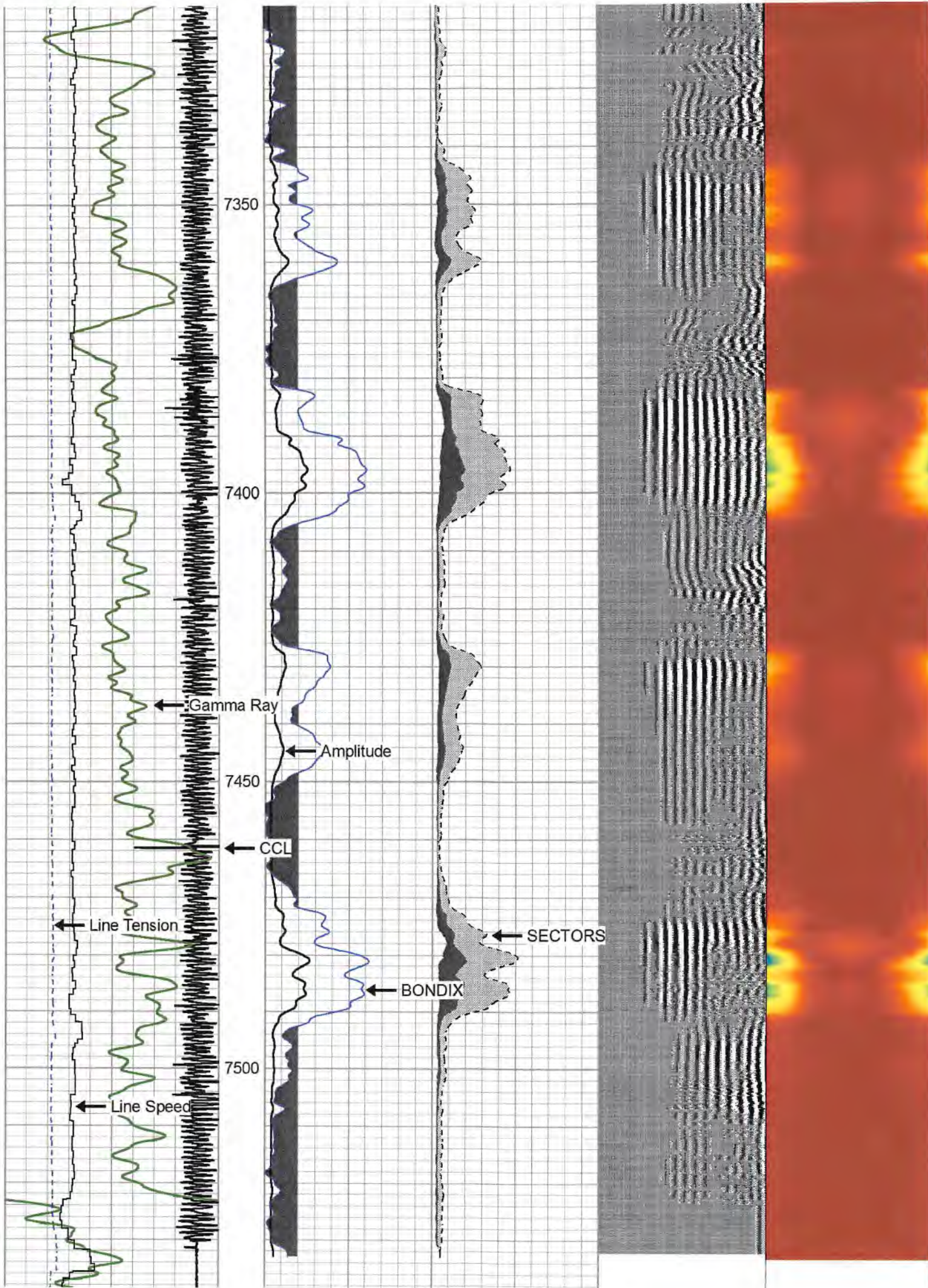













275	Travel Time (usec)	175
9	CCL\$1	-1
0	Gamma Ray (GAPI)	150
Line Speed		
-200	(ft/min)	200
0	Line Tension (lb)	5000

0	Amplitude (mV)	100	-5	AMPMIN	150
1	BONDIX	0	-5	AMPMAX	150
			-5	AMPAVG	150

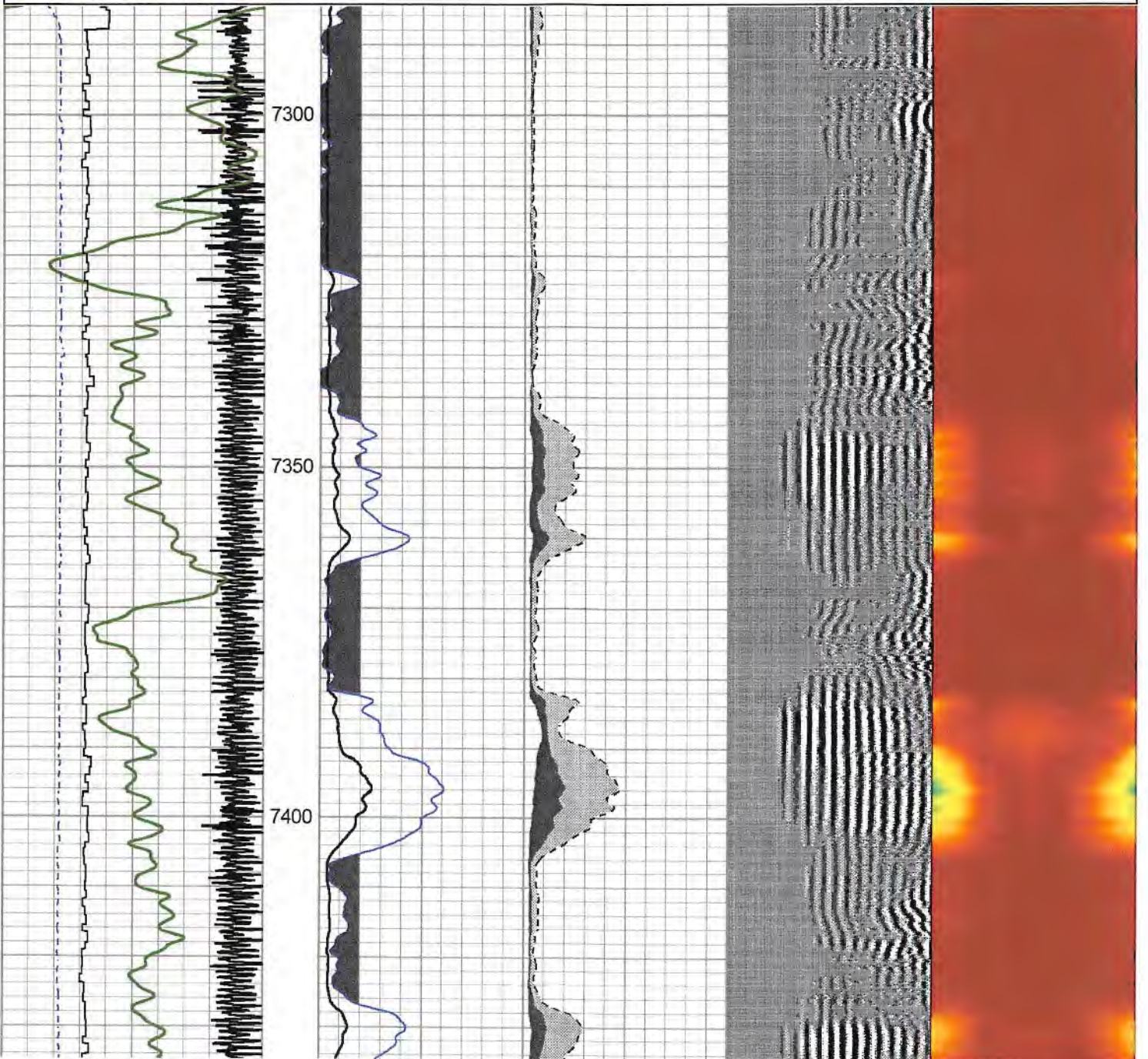
Variable Density	1	Cement Map	8
200 (usec)	1200		

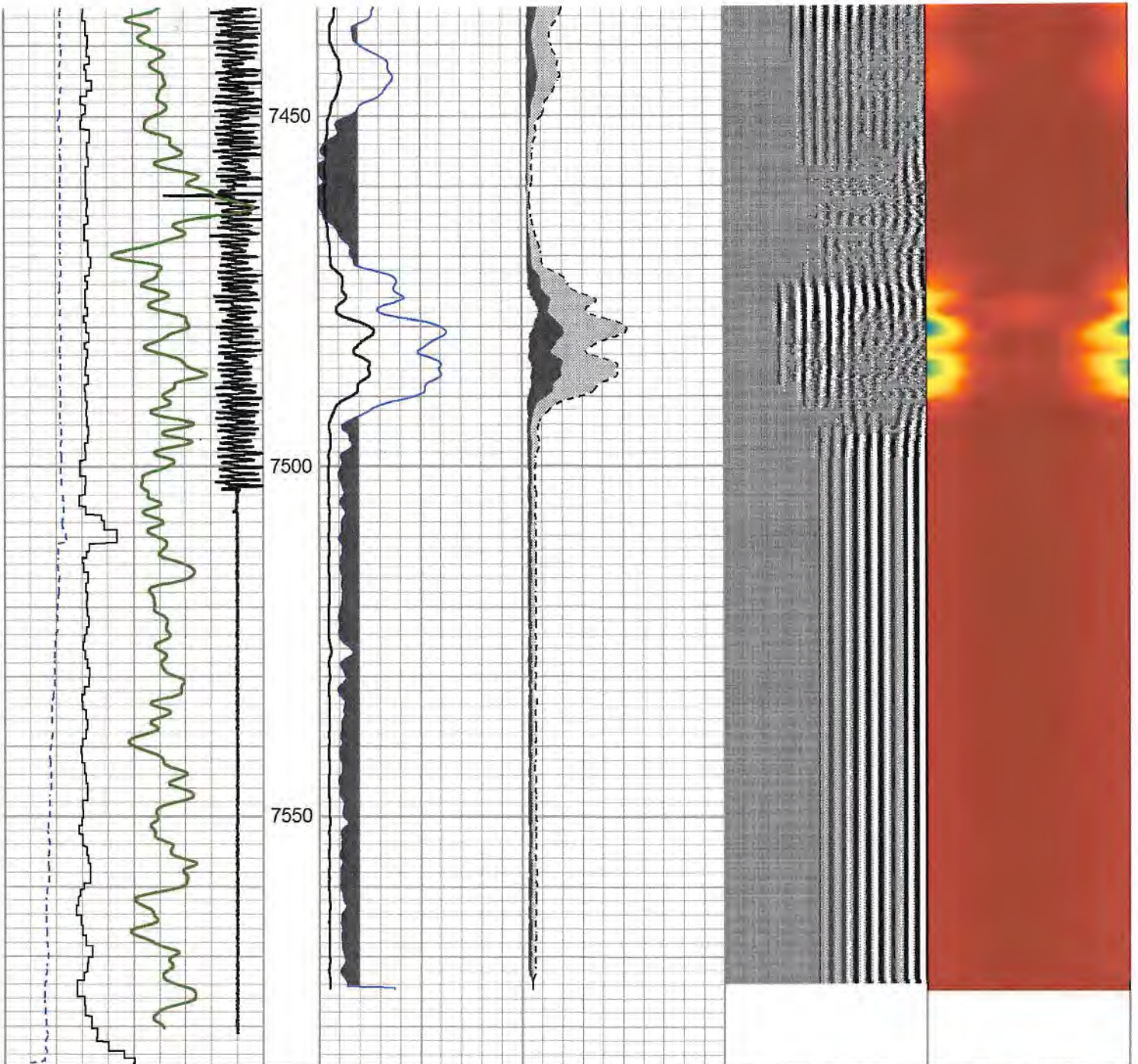
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			-5	AMPAVG	150

Variable Density
200 (usec) 1200

1	Cement Map	8
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275	Travel Time (usec)	175	0	Amplitude (mV)	100	-5	AMPMIN	150	Variable Density	1	Cement Map	8
9	CCL\$1	-1	1	BONDIX	0	-5	AMPMAX	150	200 (usec)	1200		
0	Gamma Ray (GAPI)	150				-5	AMPAVG	150				
	Line Speed											
-200	(ft/min)	200										
0	Line Tension (lb)	5000										

Log Variables

Databased:\antero_furbee_reader2h_rcbl_25-nov-2022.db
 Dataset field/well/MAIN/pass_1/_vars_

Top - Bottom

BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL	MINATTN
in	degF	in	in	lb/ft	mV	mV	db/ft
7.875	100	5.5	0	23	71.9	3.4	0.8
PERFS	PPT	SRFTEMP	TDEPTH				
	usec	degF	ft				