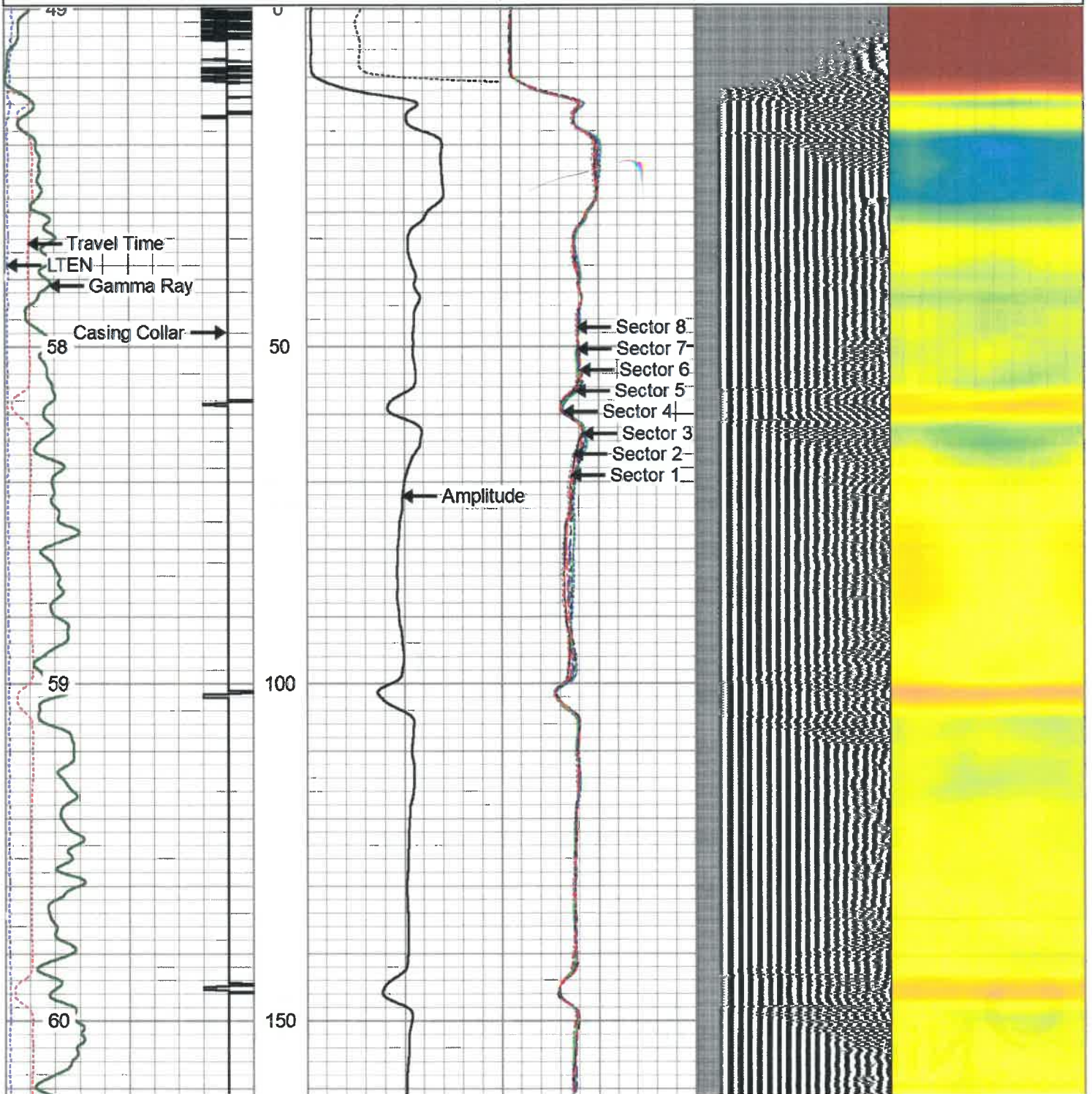
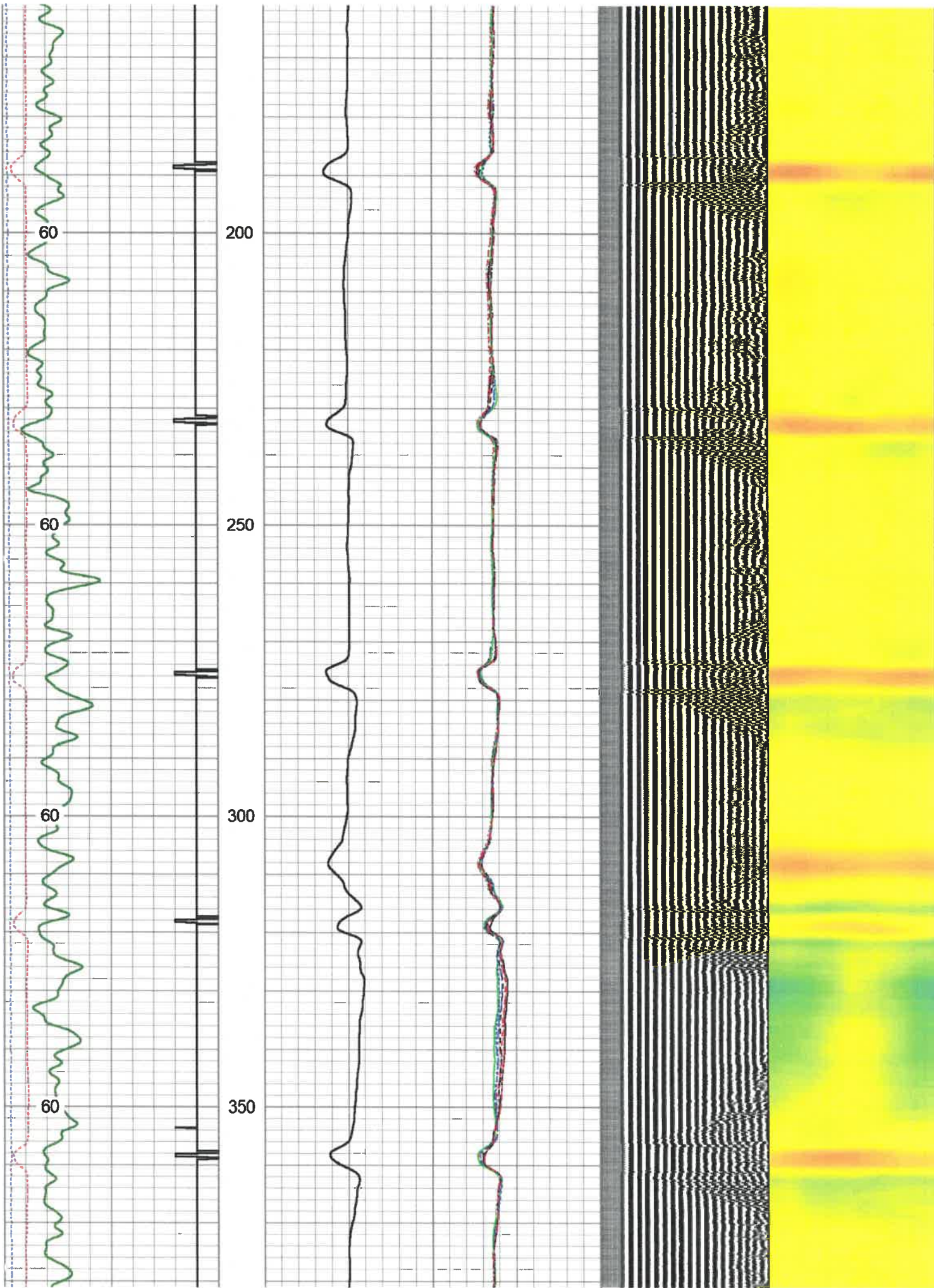
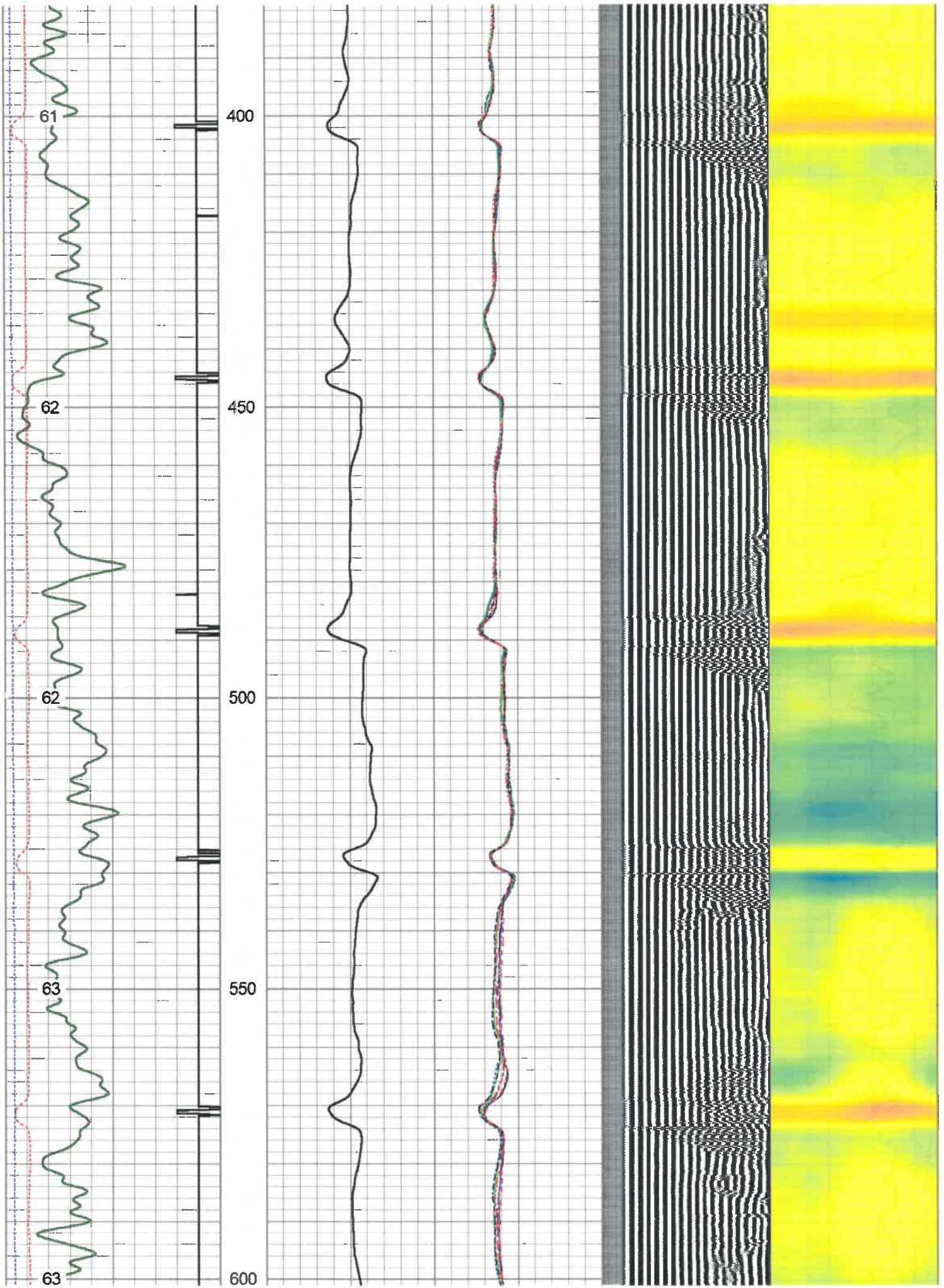


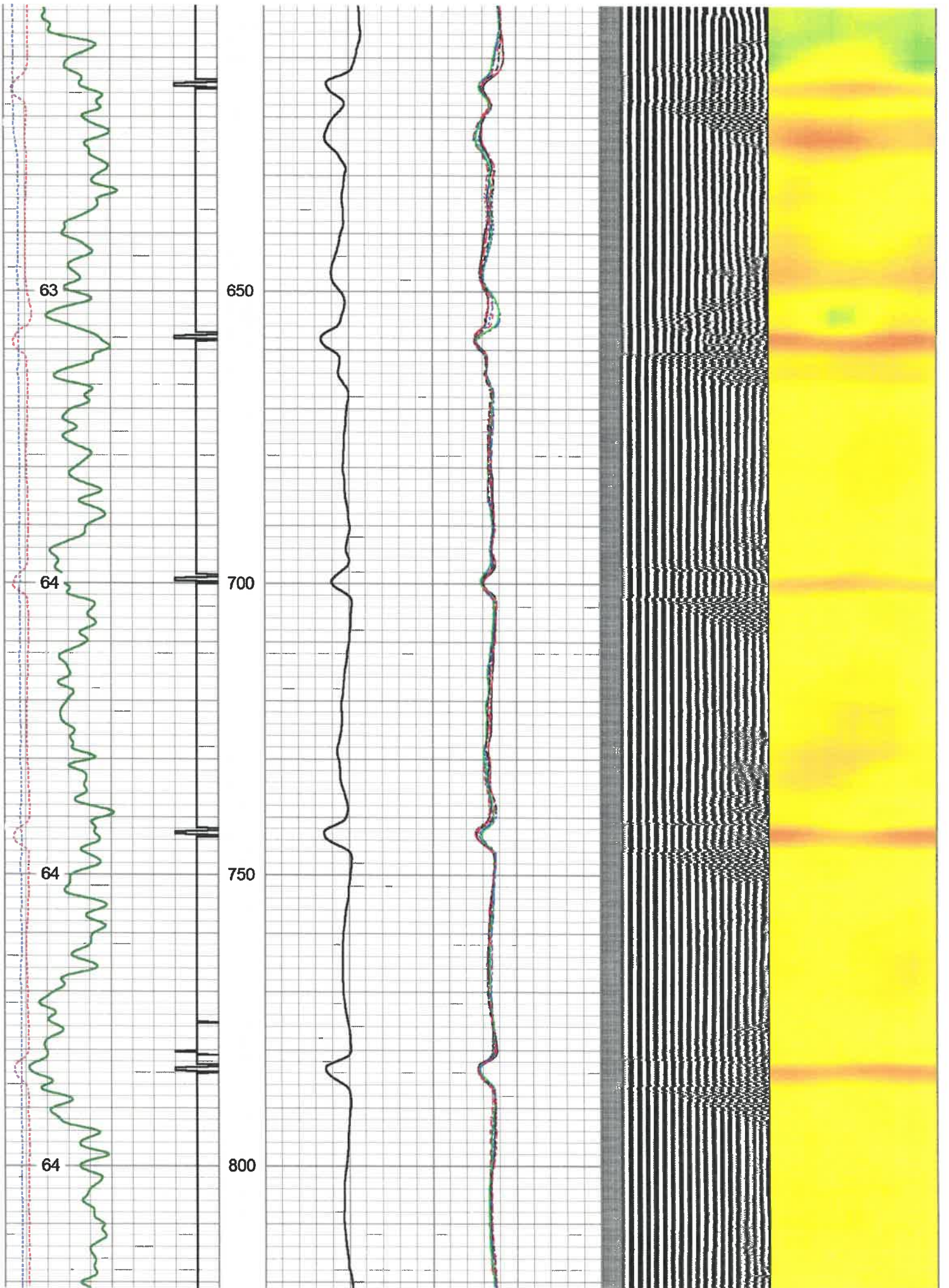
Database File c:\users\thomas.weese\desktop\bond logs\antero\colorado east\antero_colorado_east_stampede_2h.db
 Dataset Pathname Marcellus/Stampede_2H/RCBL_1/pass7
 Presentation Format scbl03
 Dataset Creation Sun Mar 15 13:13:49 2020
 Charted by Depth in Feet scaled 1:240

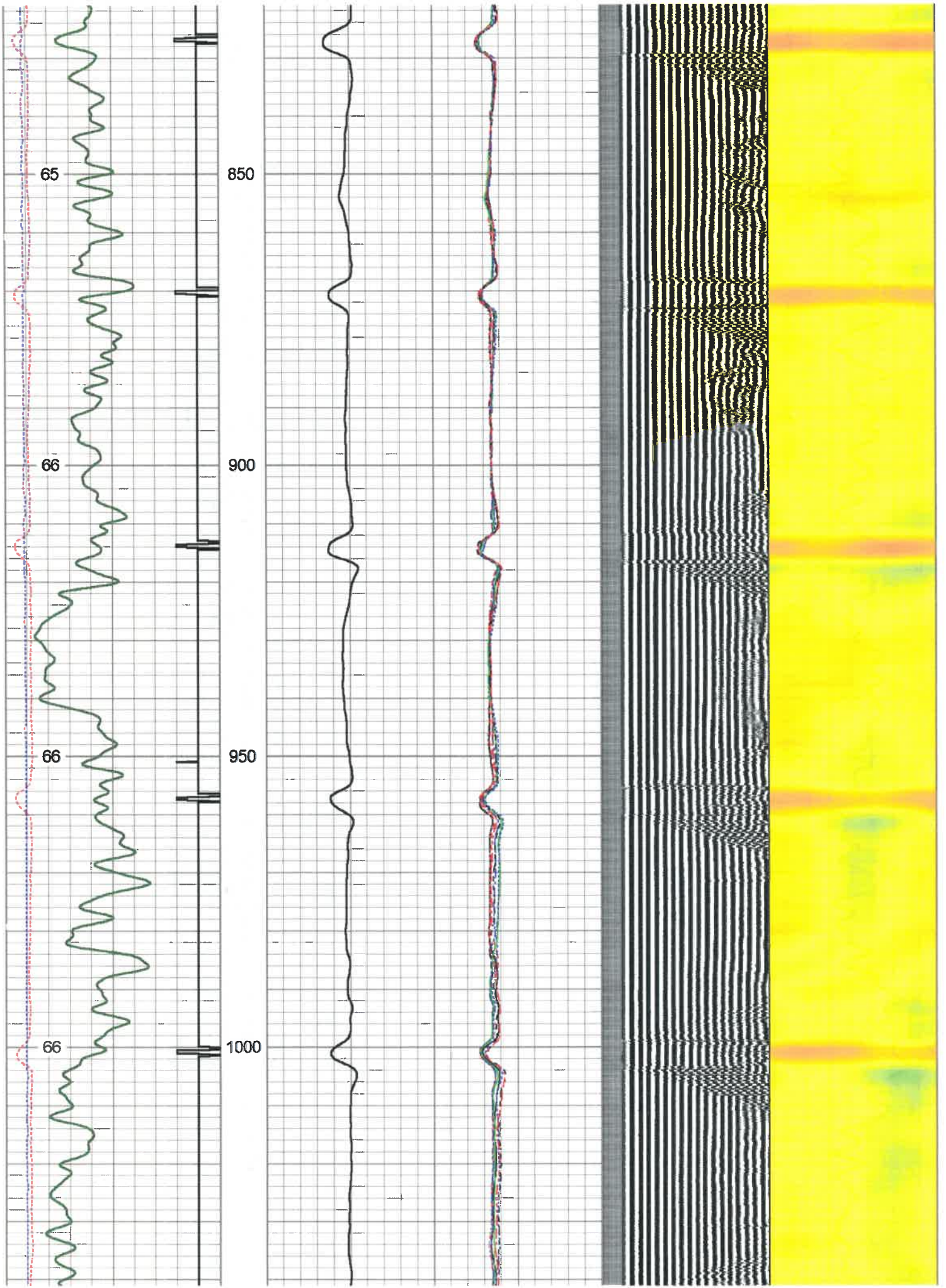
260	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density	1	Cement Map	8
Casing Collar			Amplified Amplitude			-5	Sector 2	150	200	(usec)	1200	
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	Sector 3	150				
0	LTEN (lb)	2500				-5	Sector 4	150				
Temp (degF)						-5	Sector 5	150				
						-5	Sector 6	150				
						-5	Sector 7	150				
						-5	Sector 8	150				

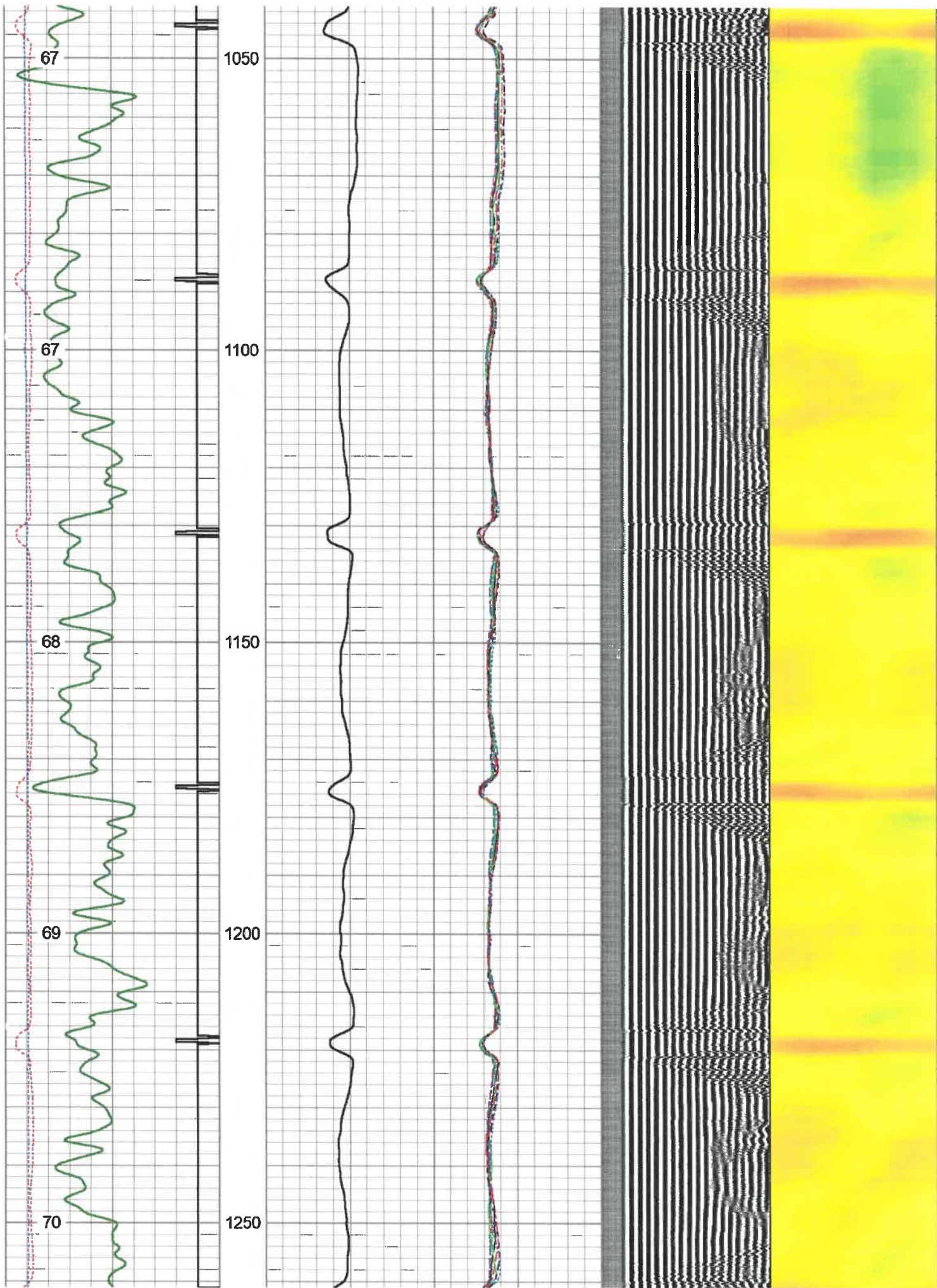


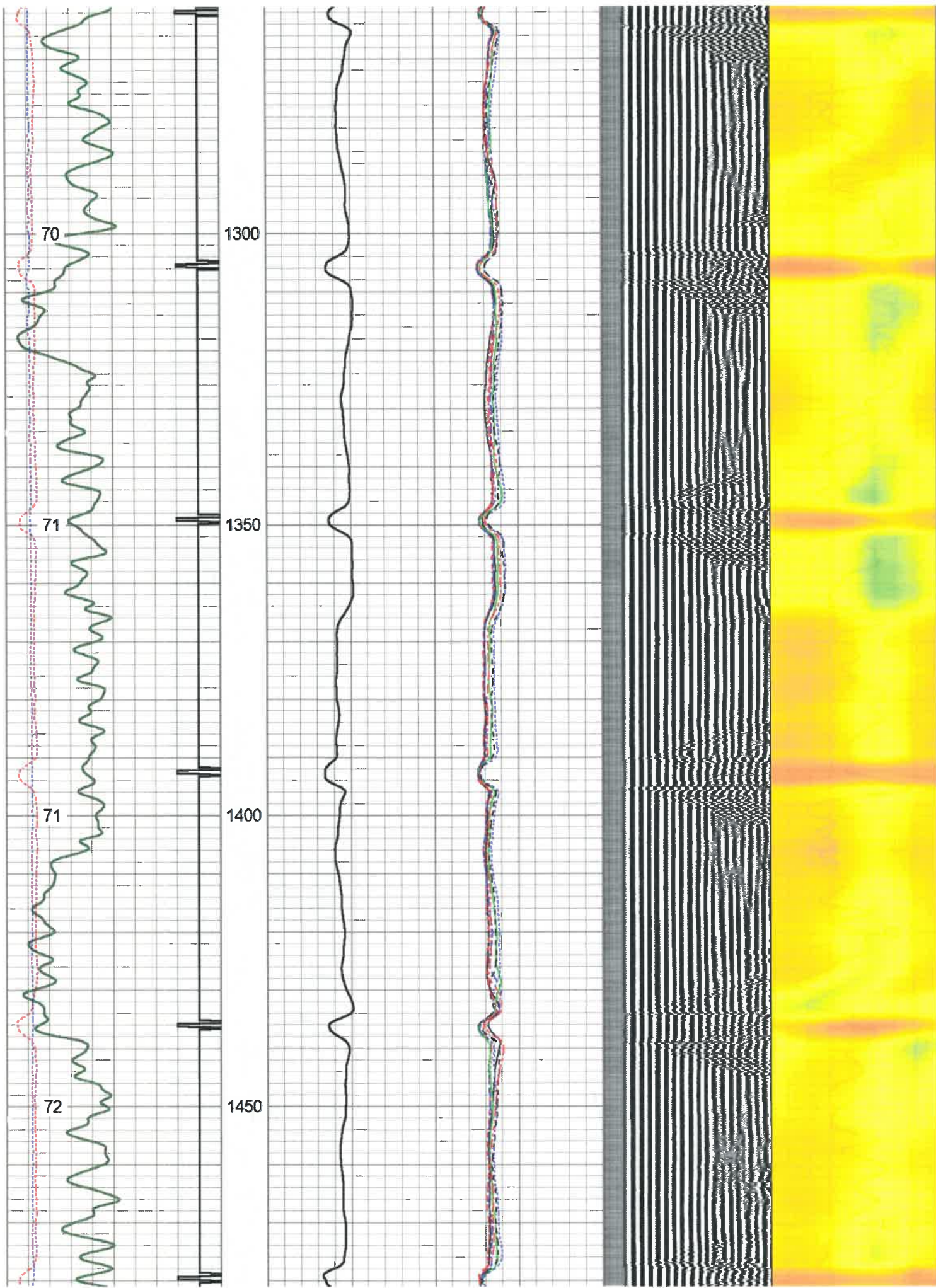


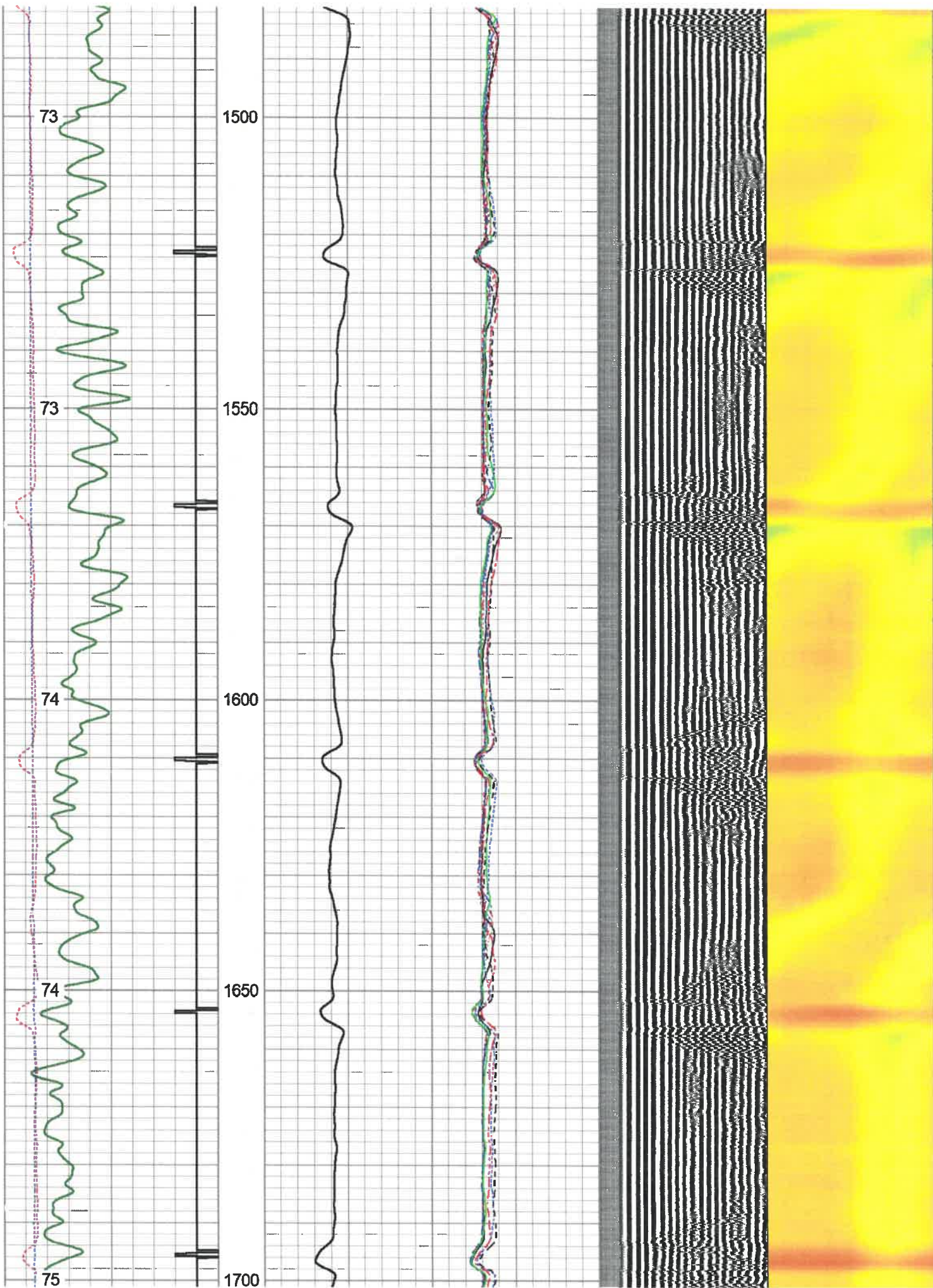


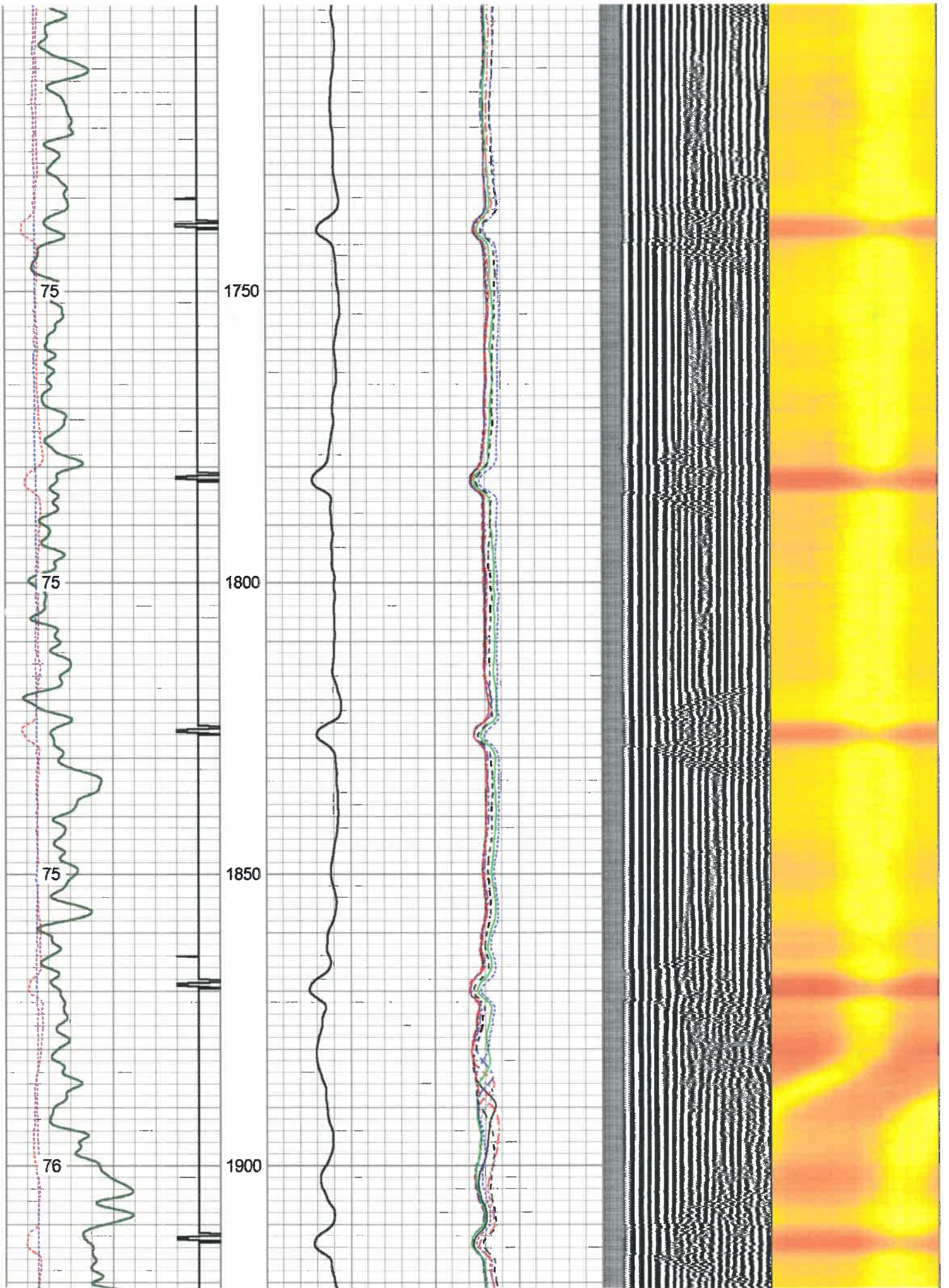


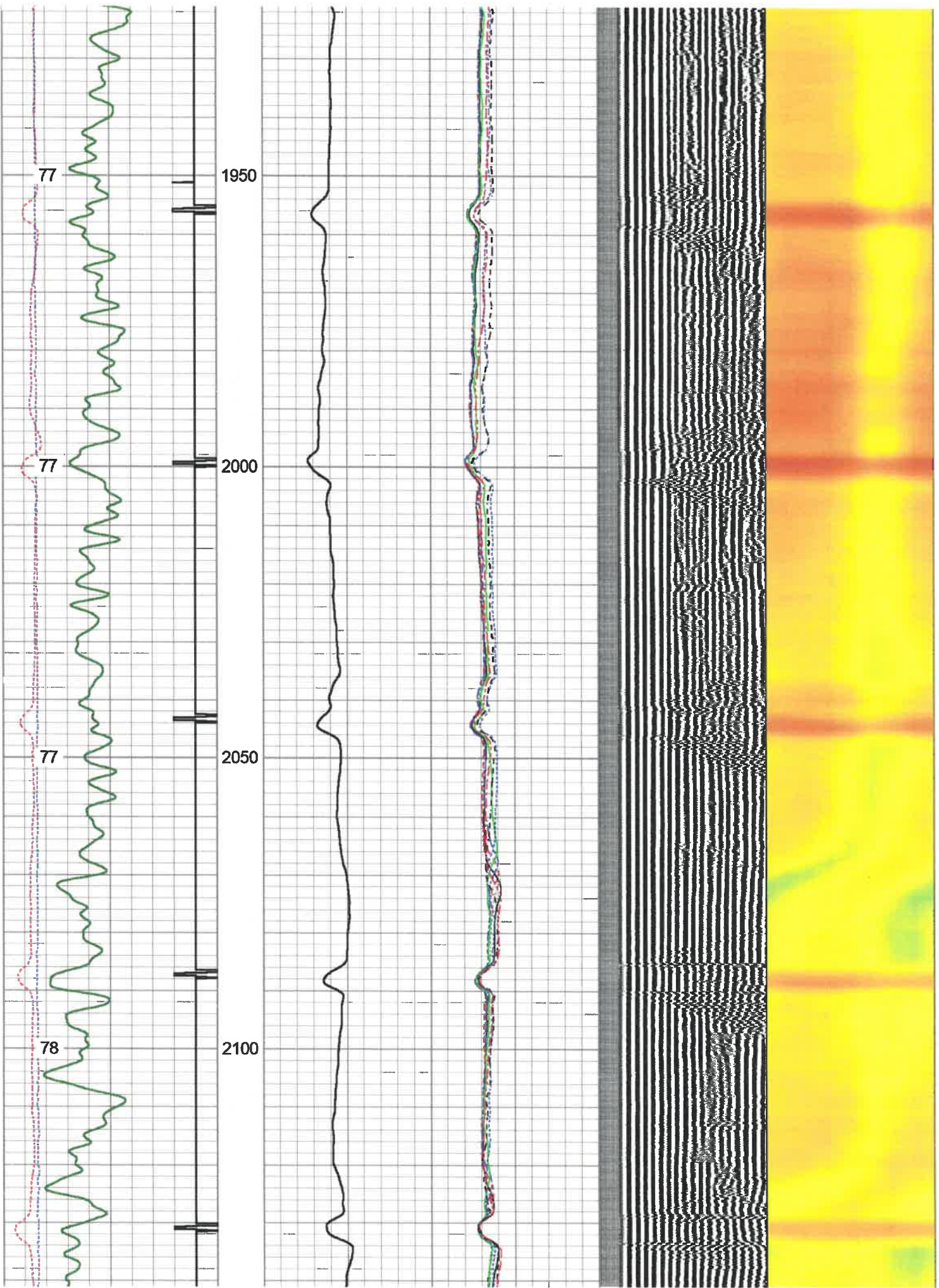


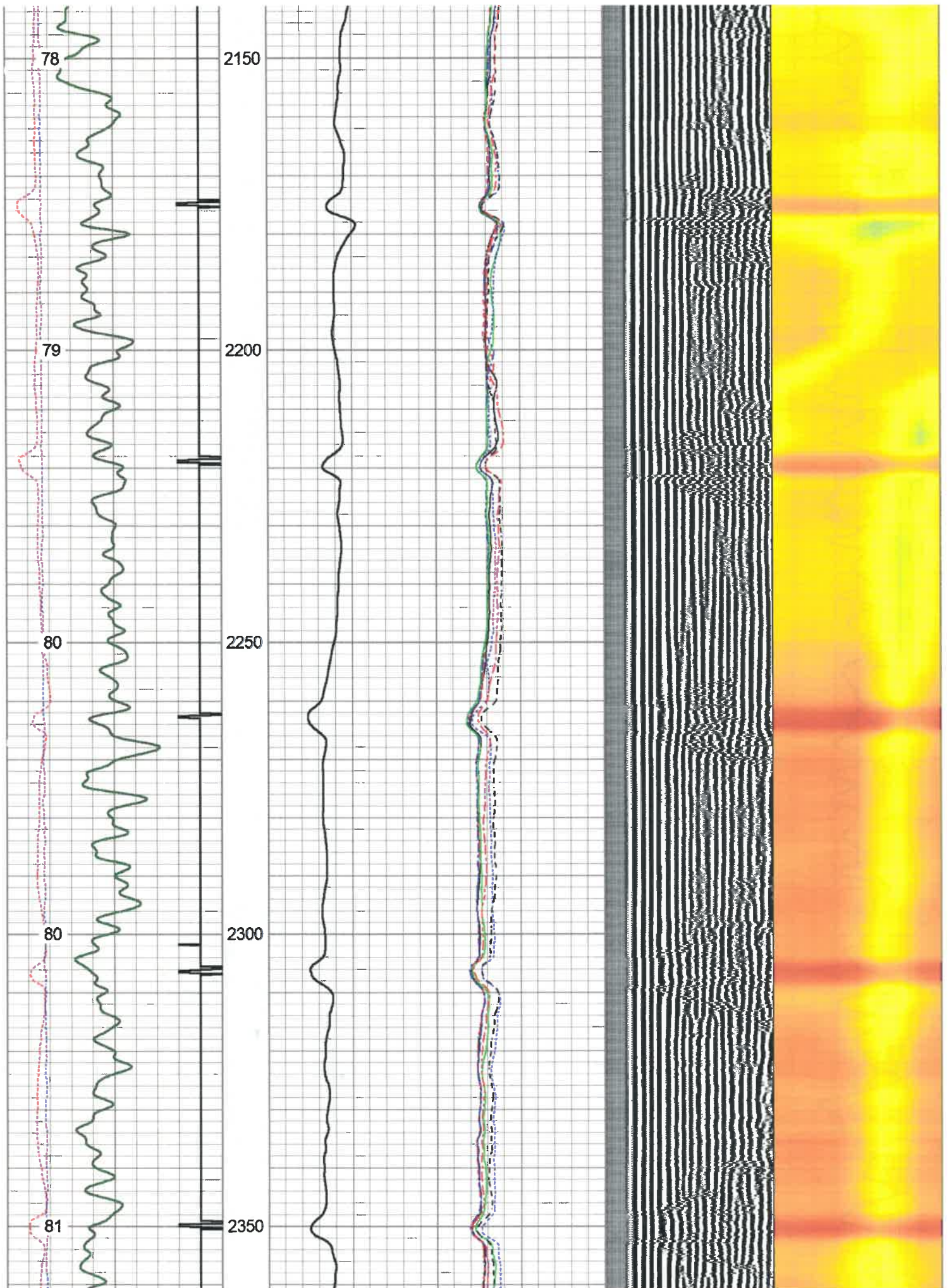


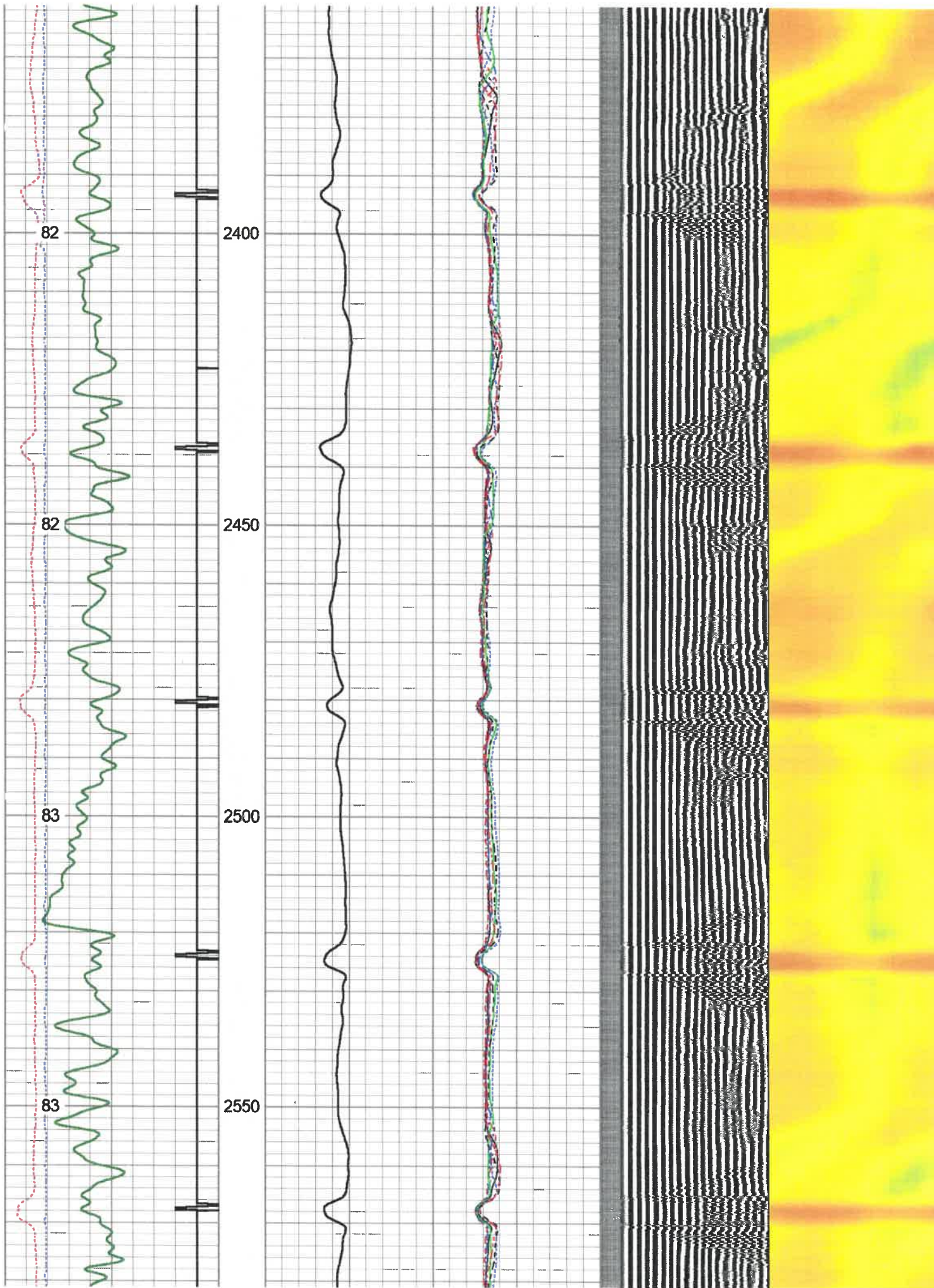


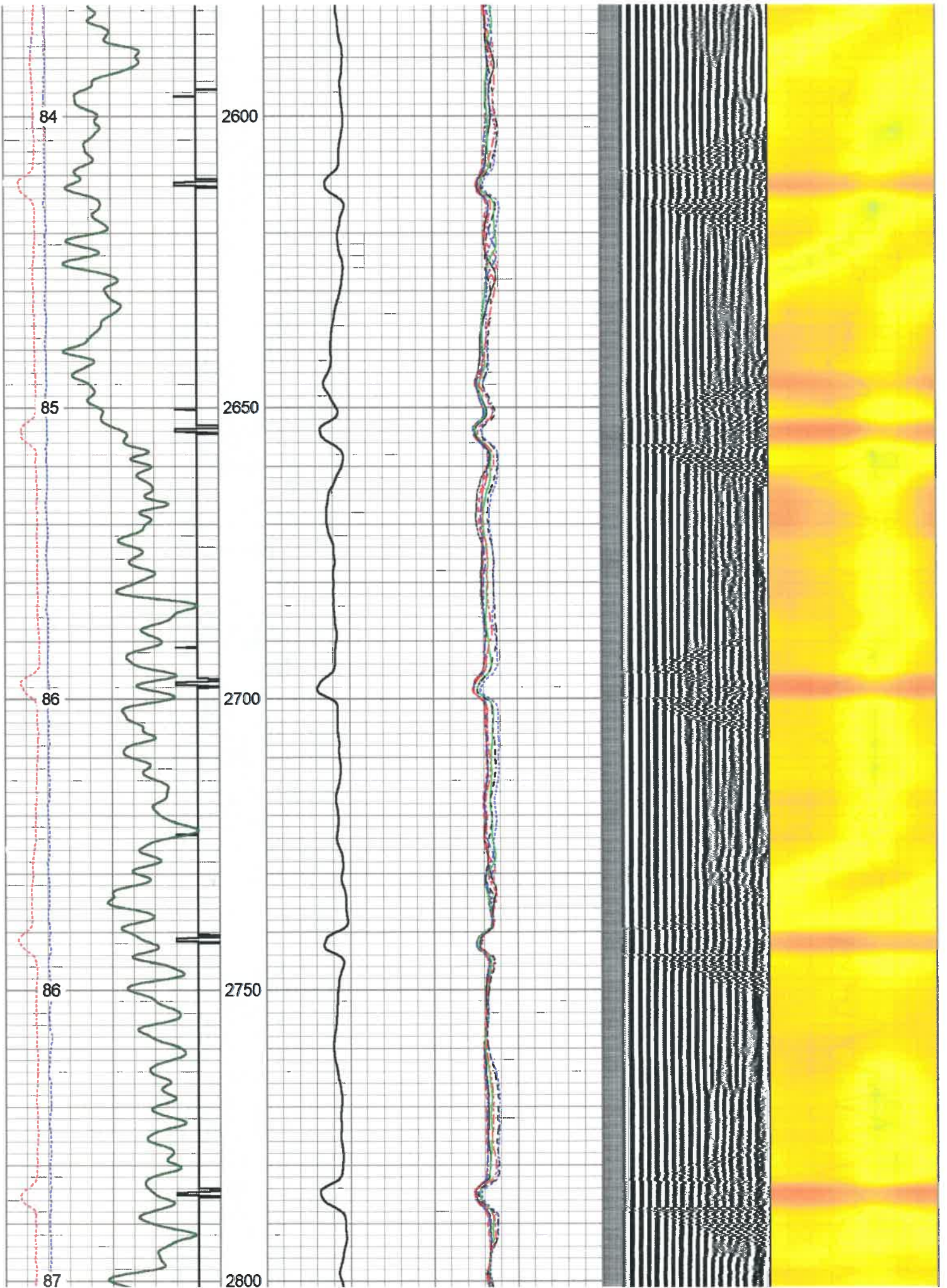


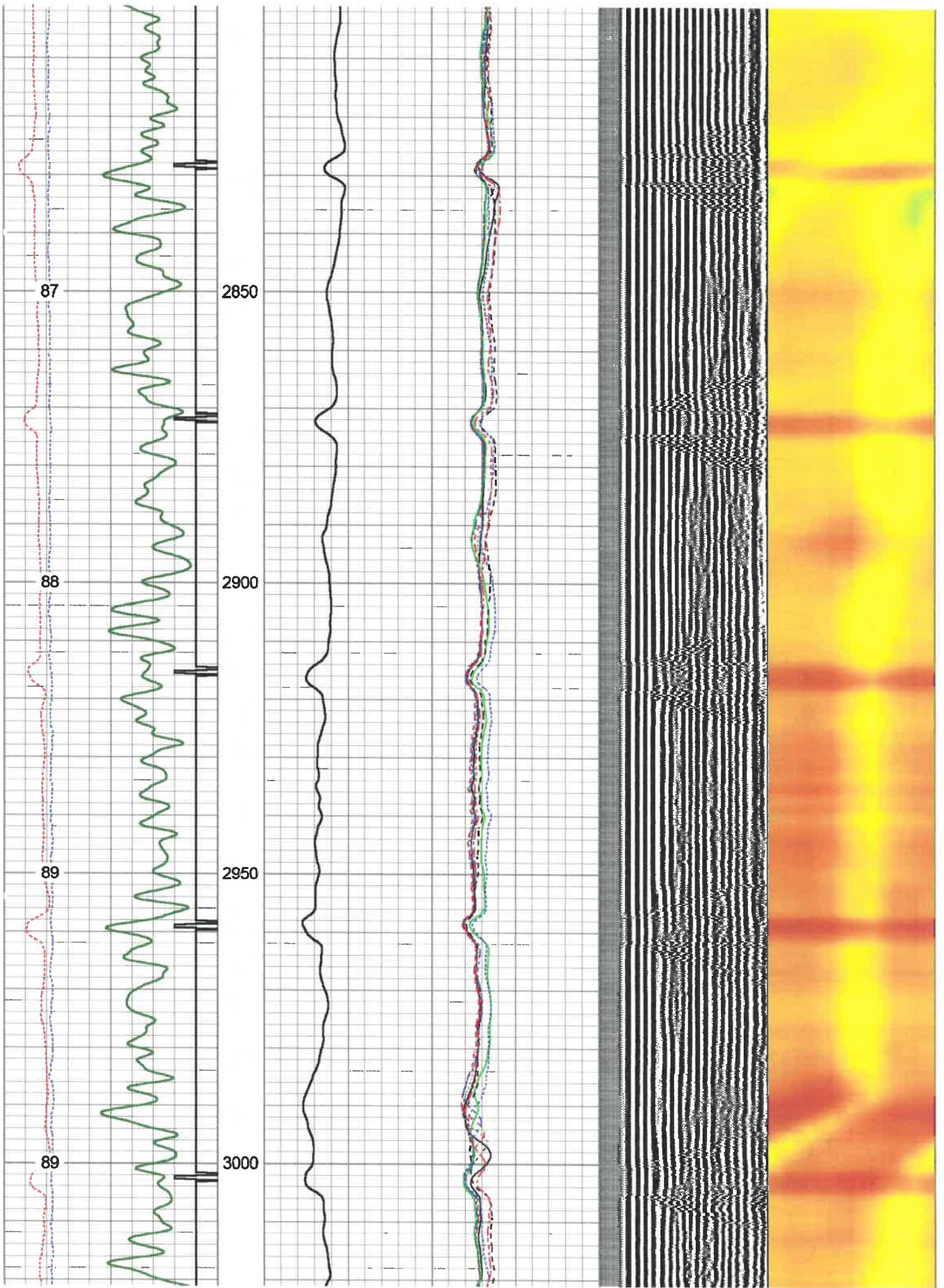


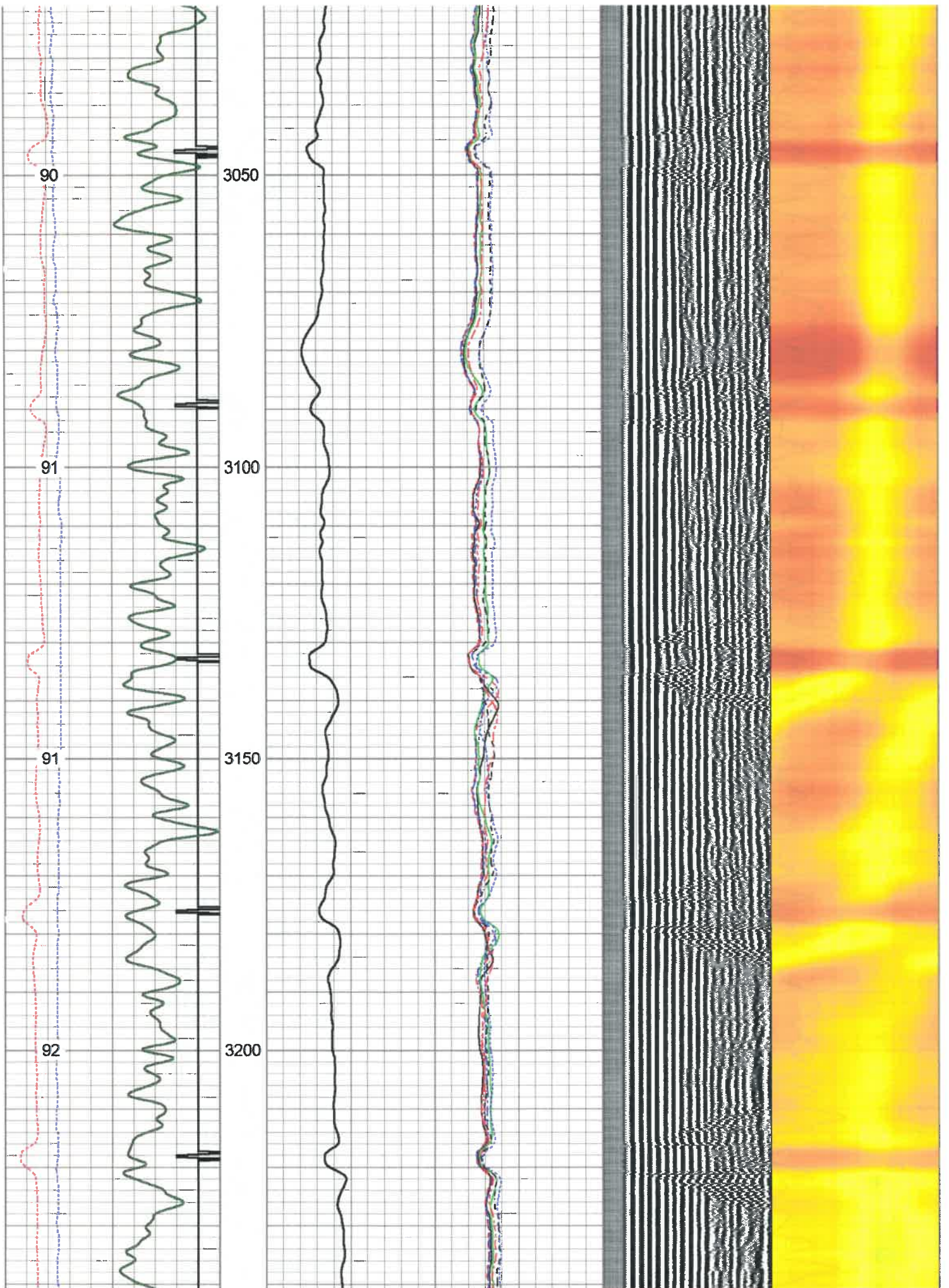


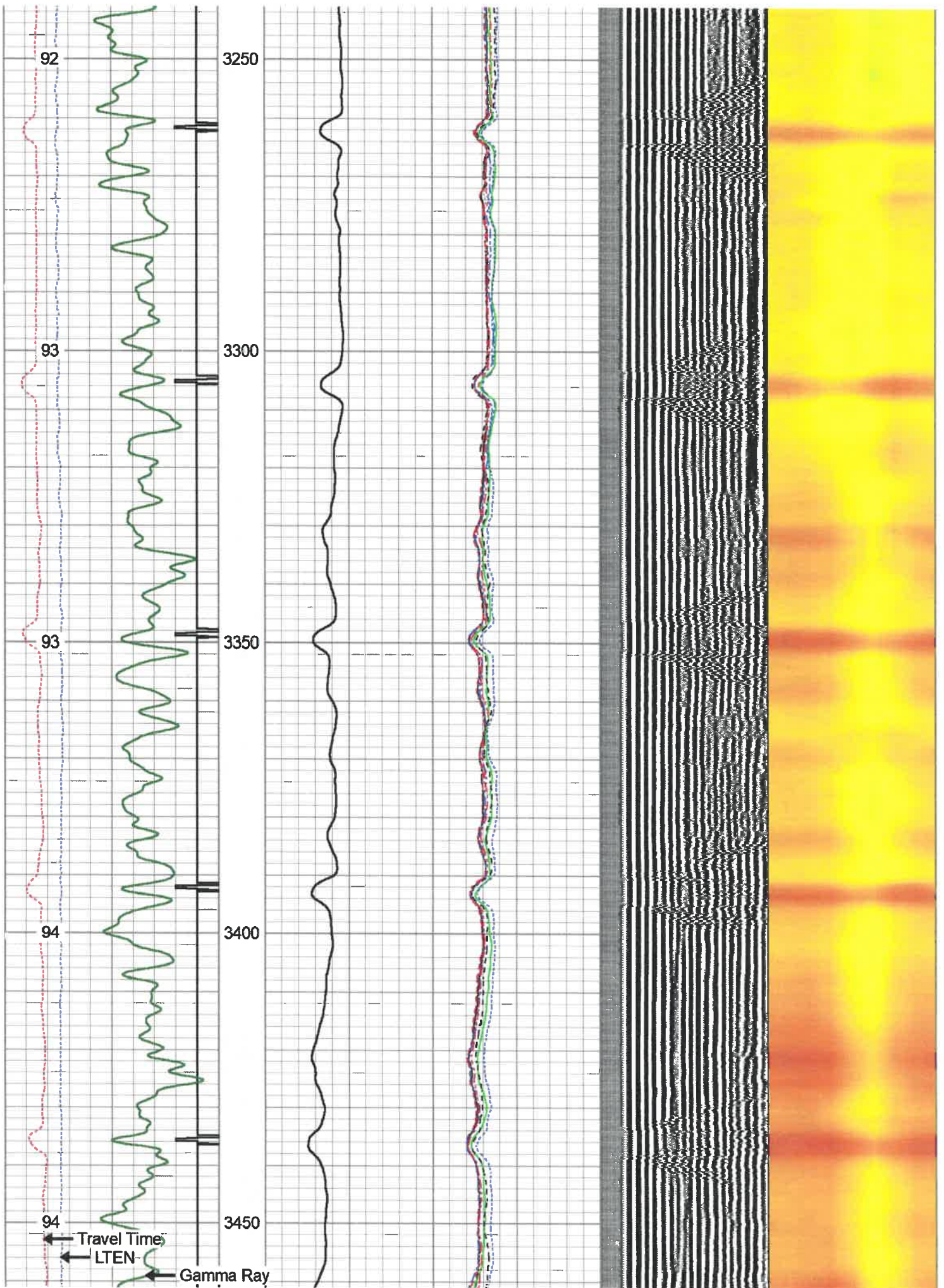


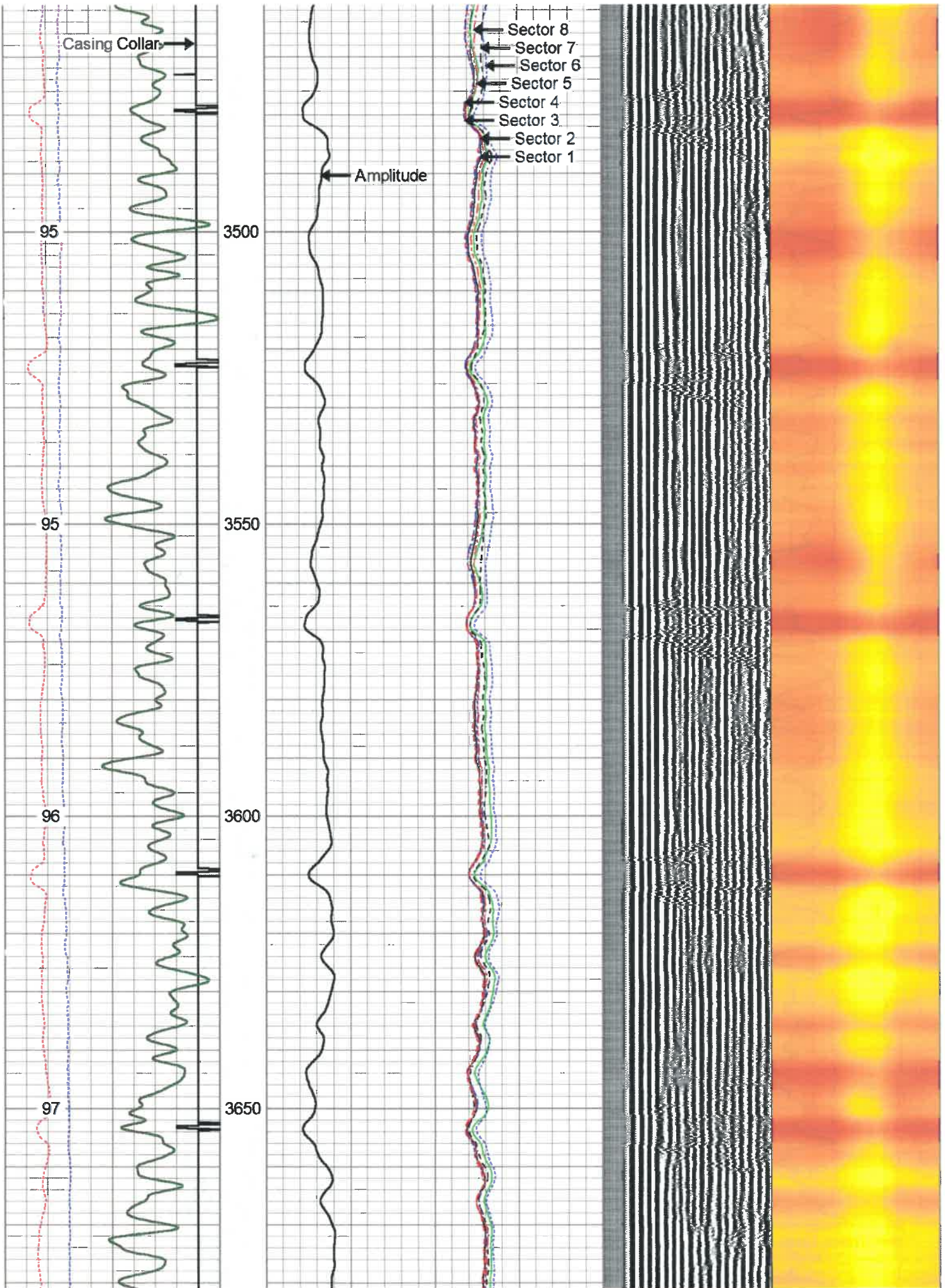


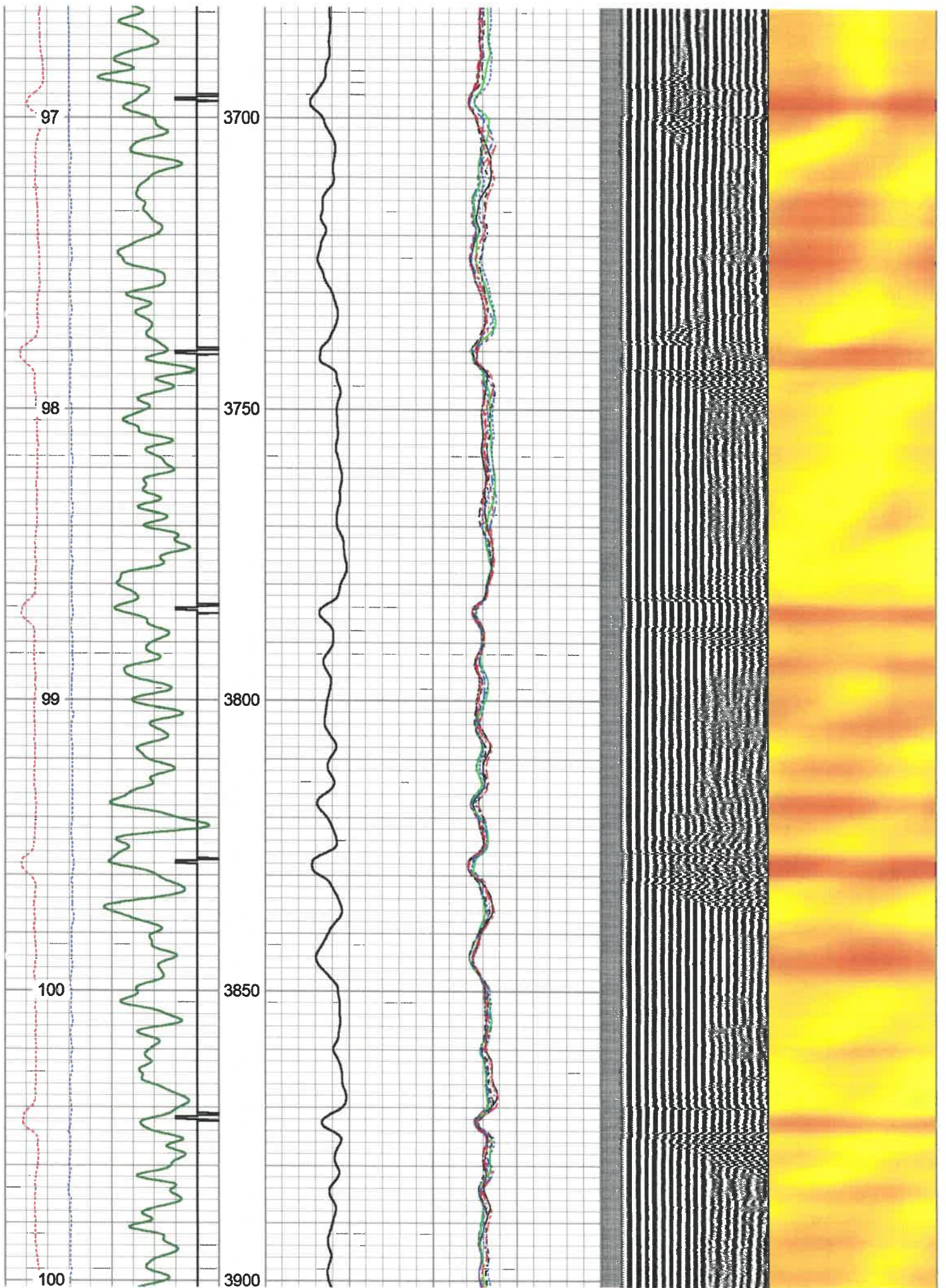


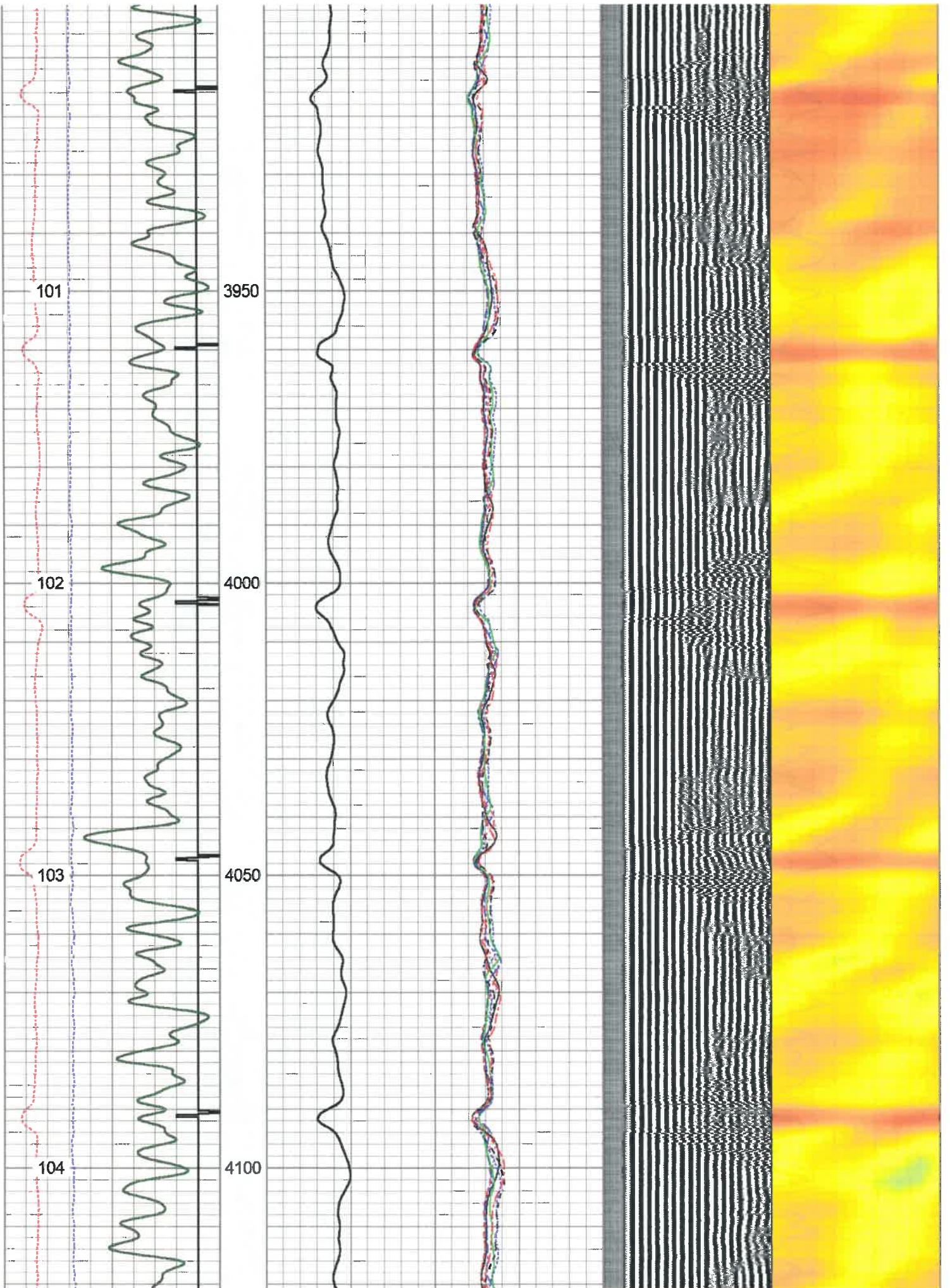


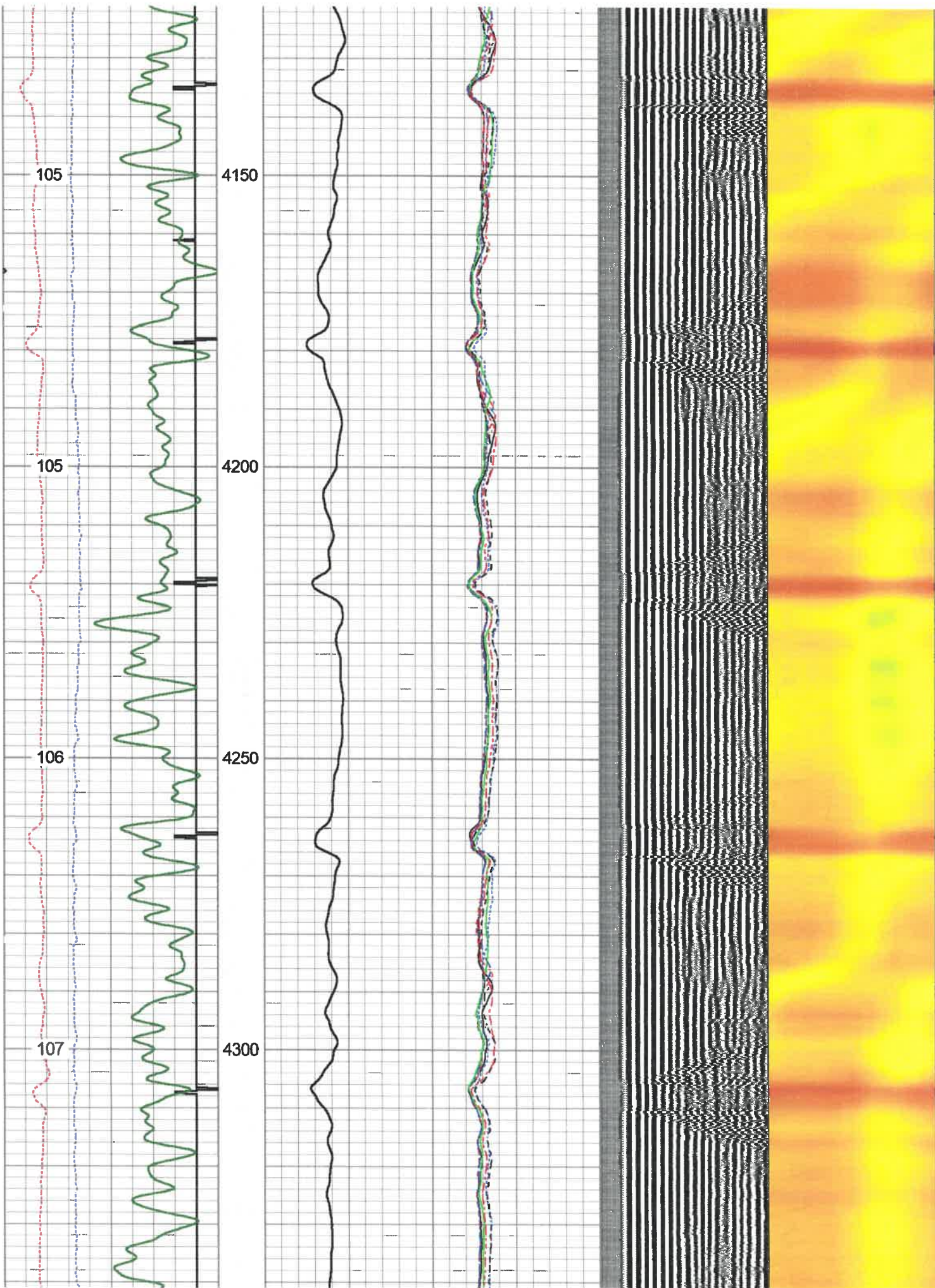


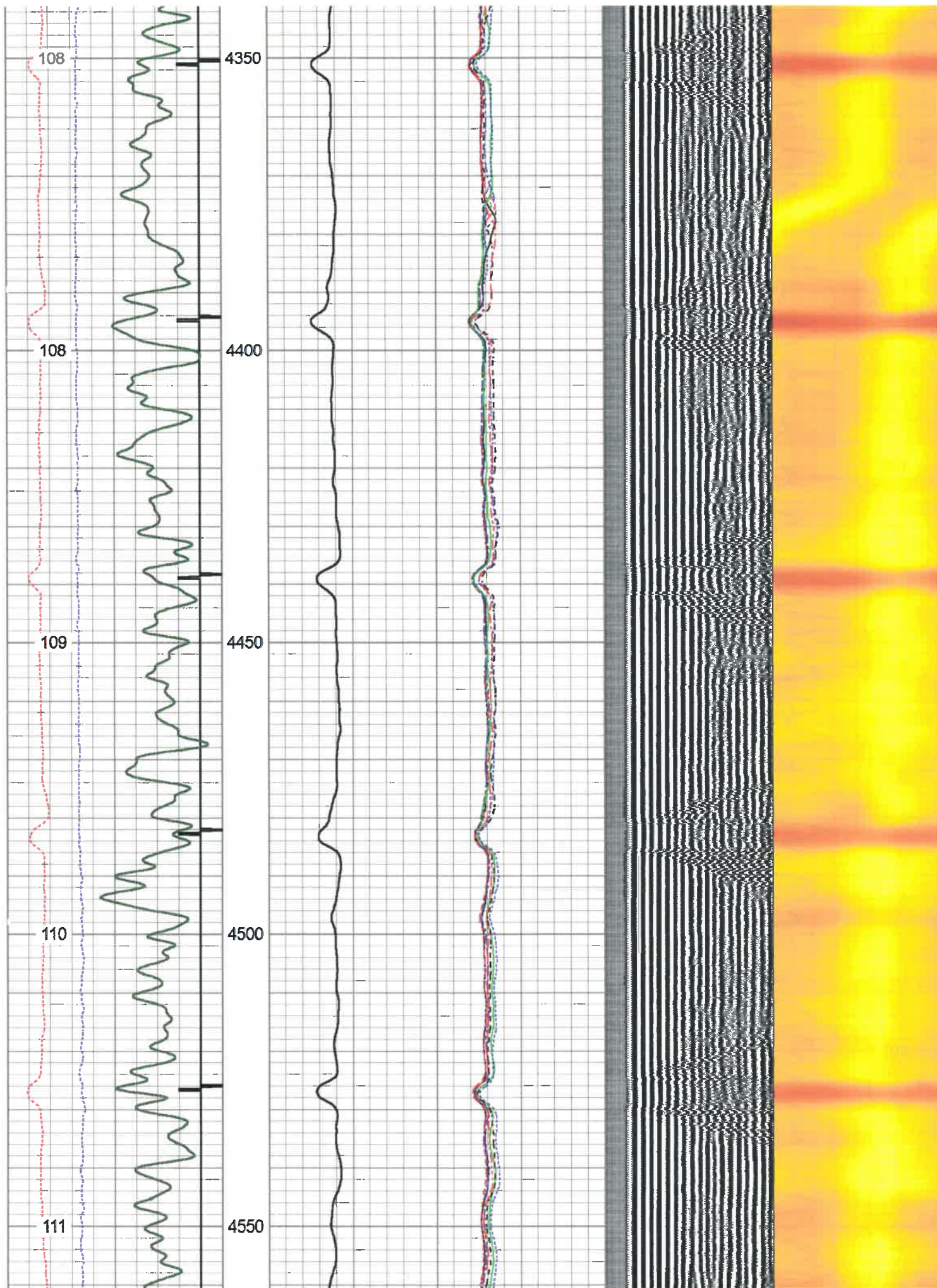


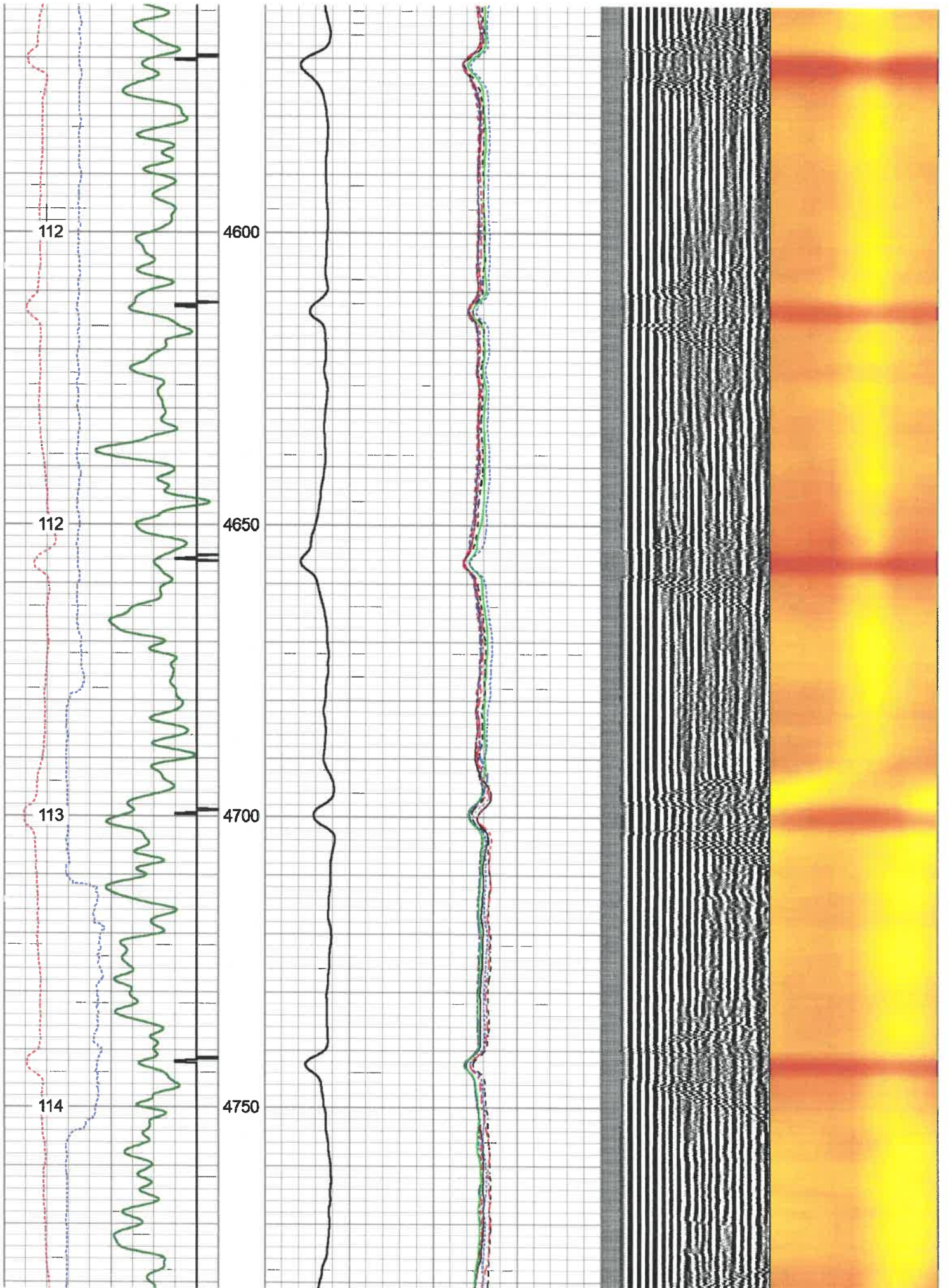


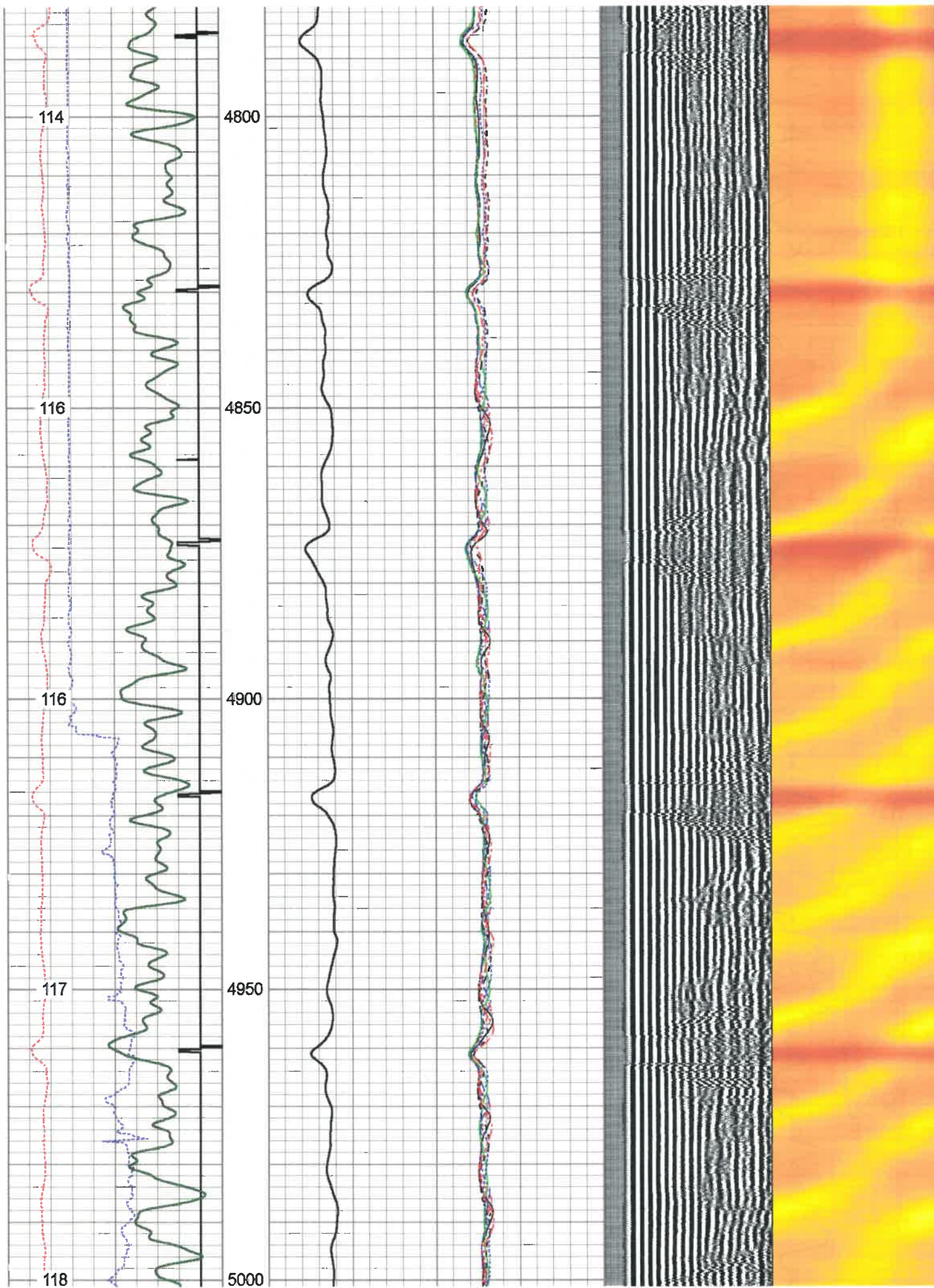


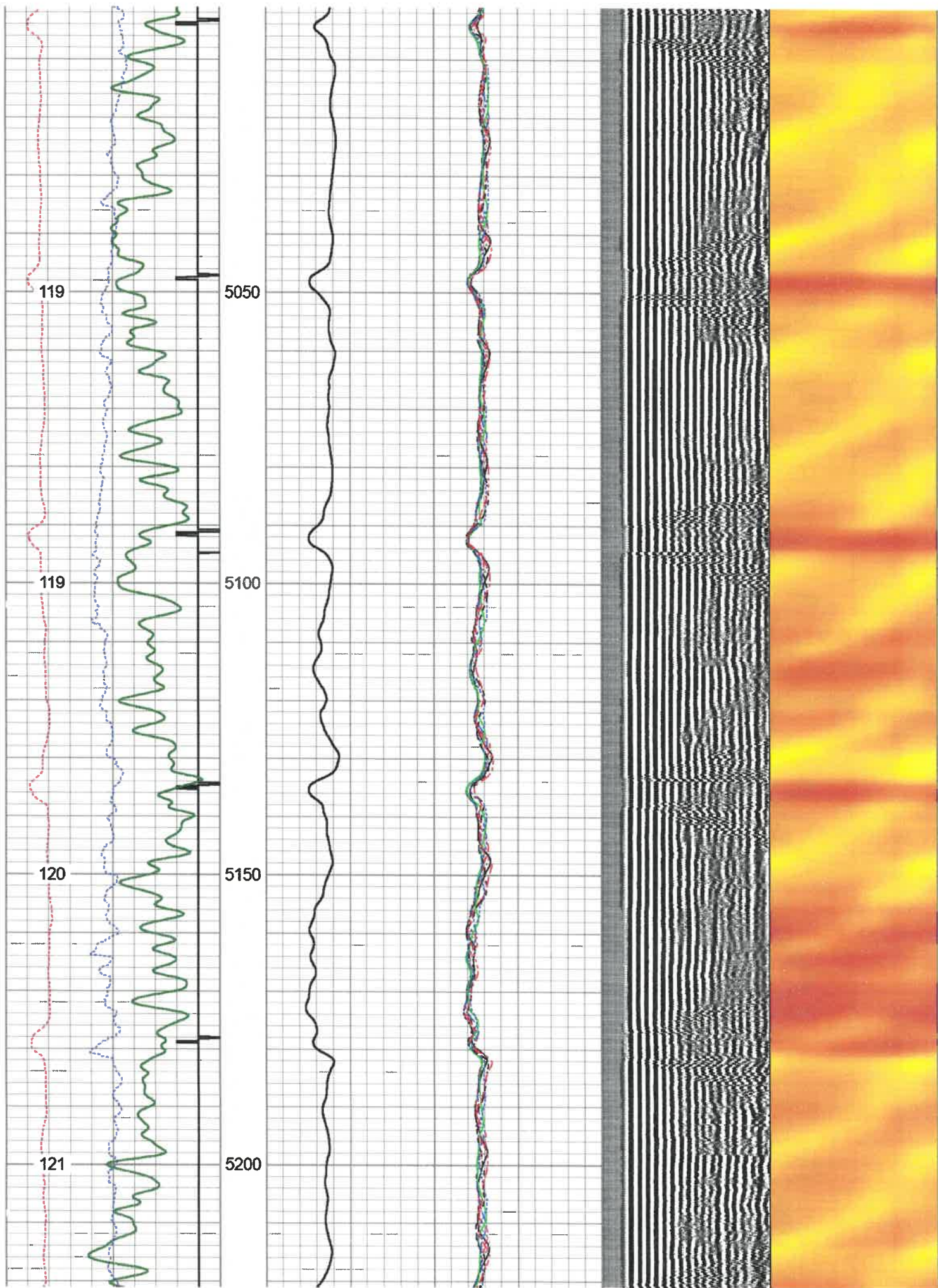


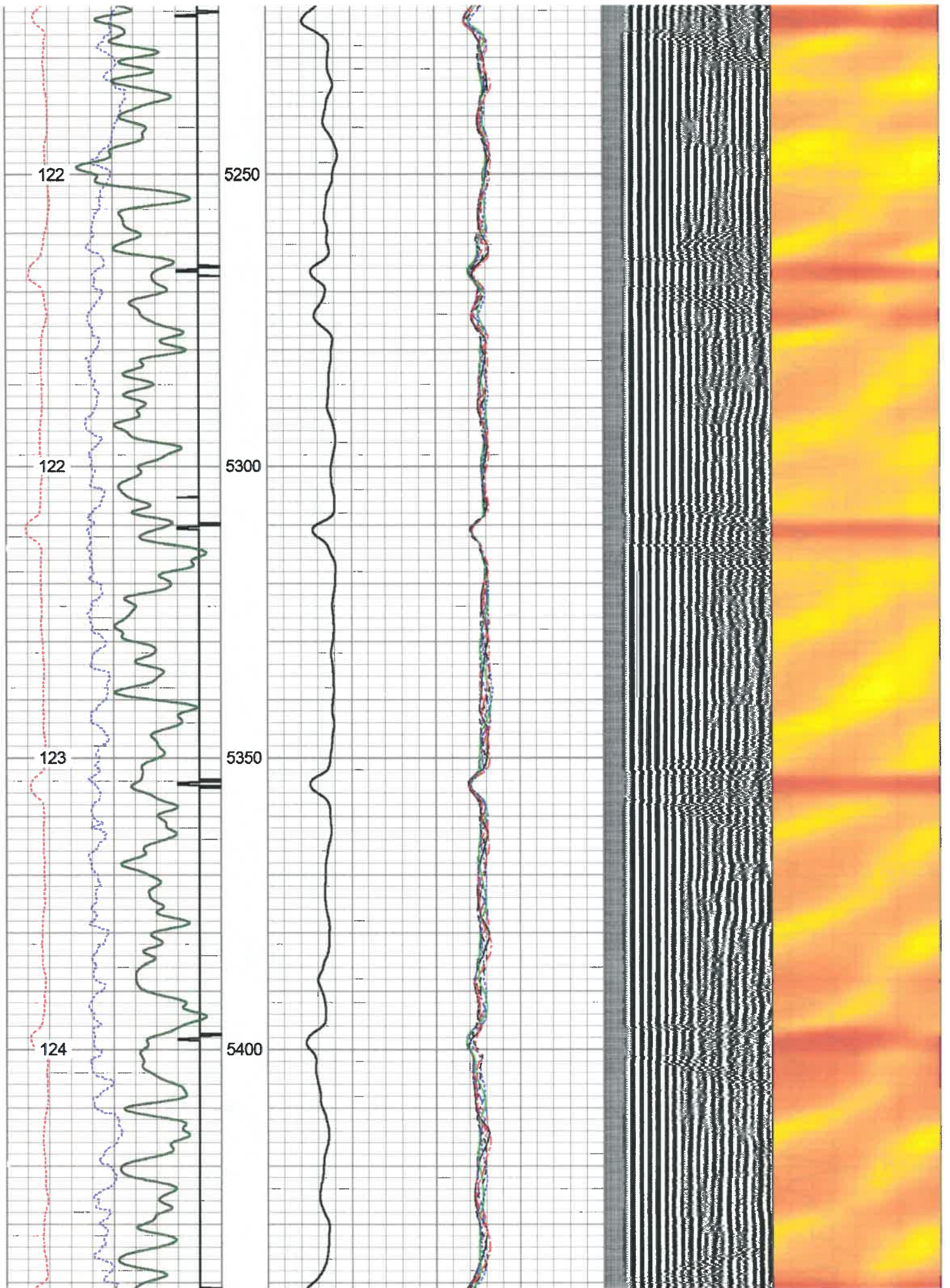


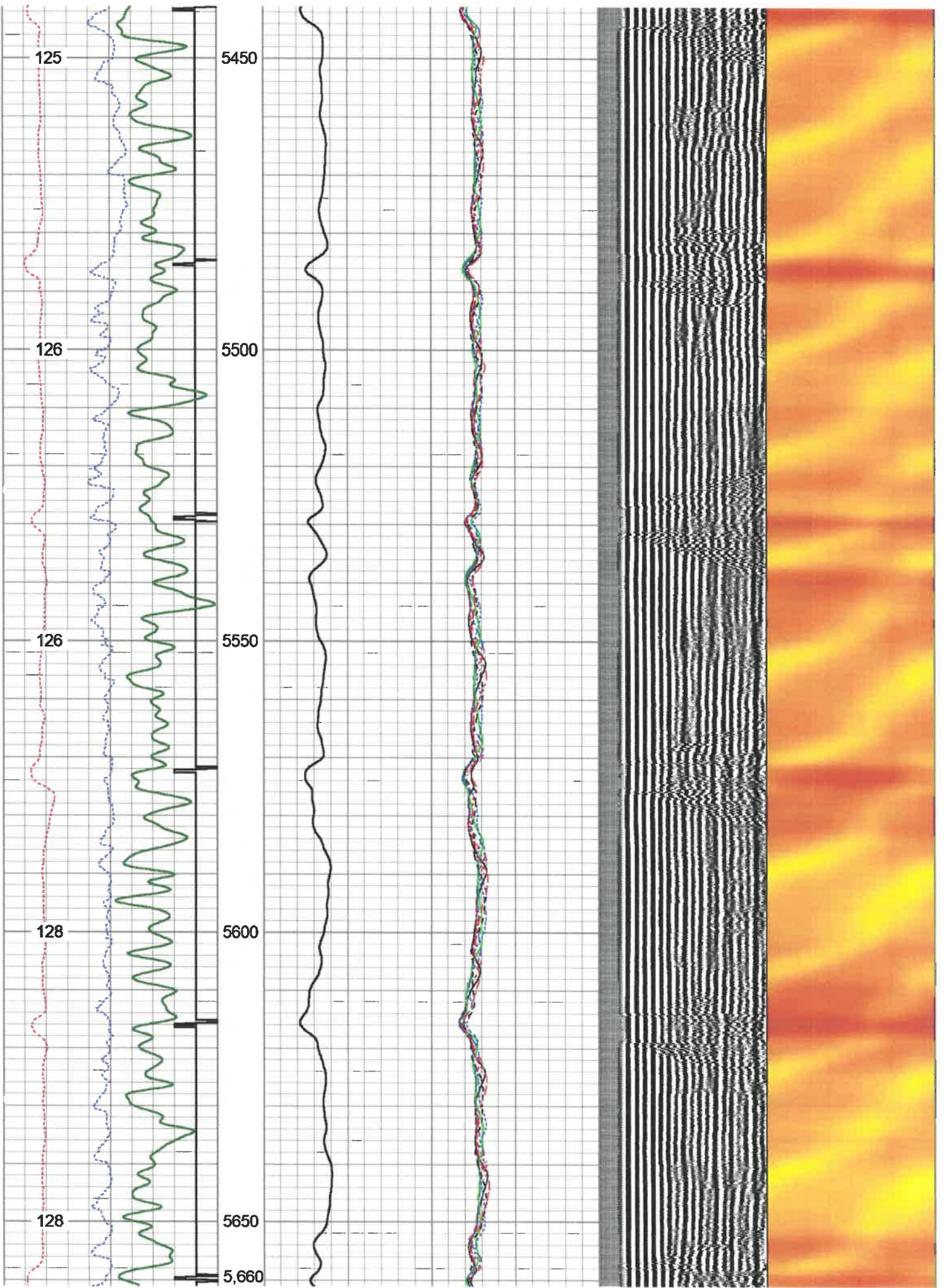


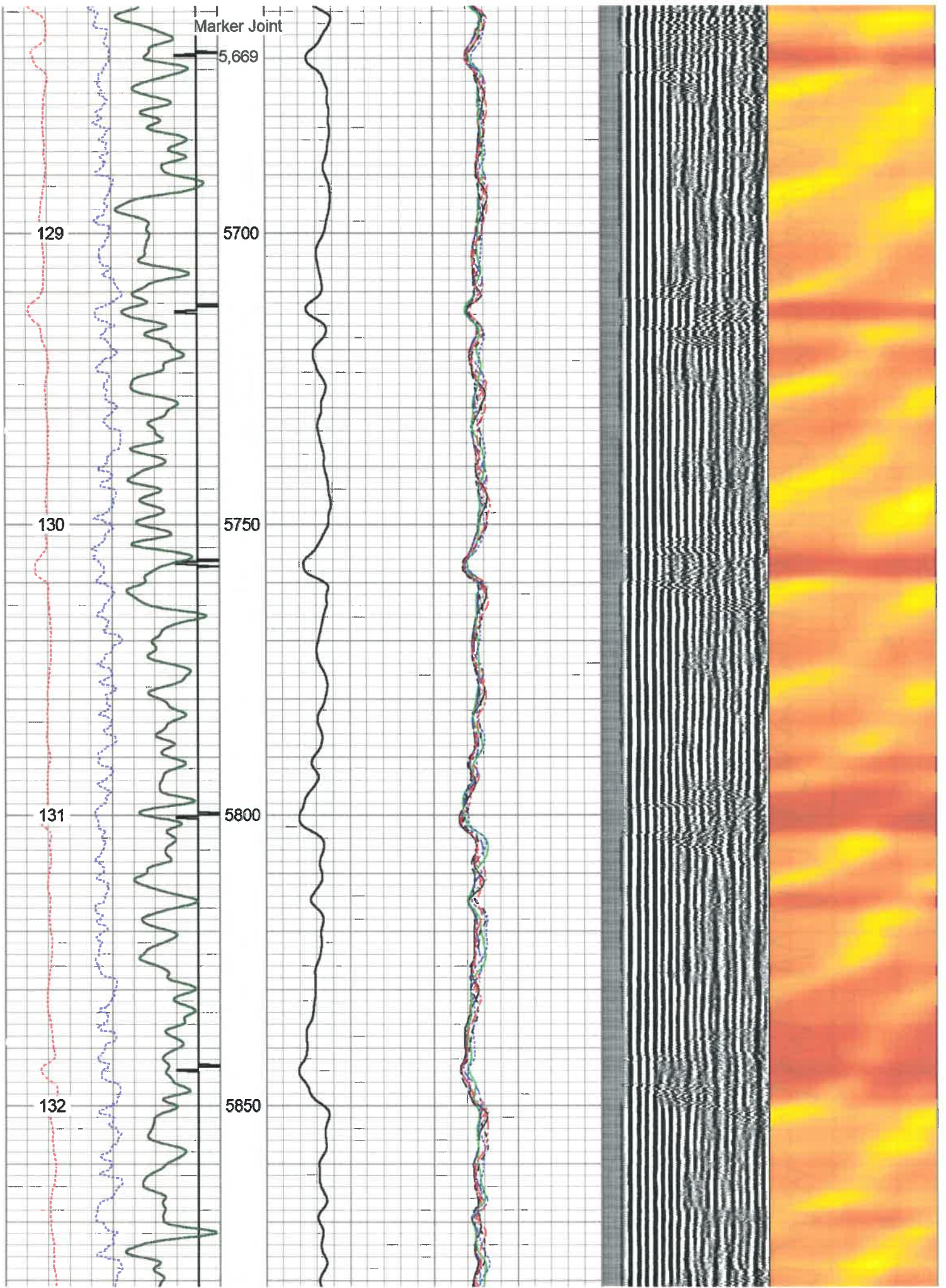


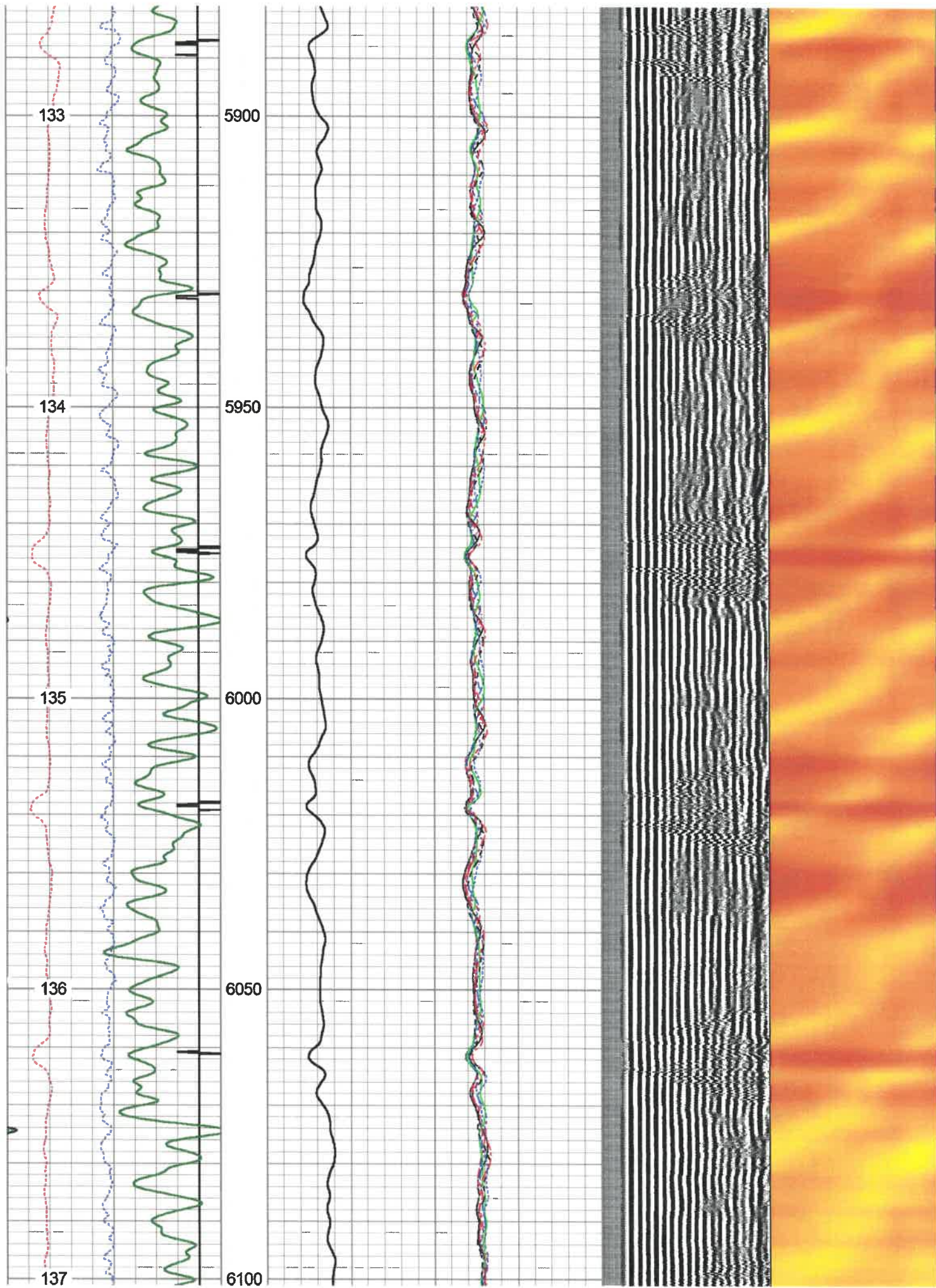


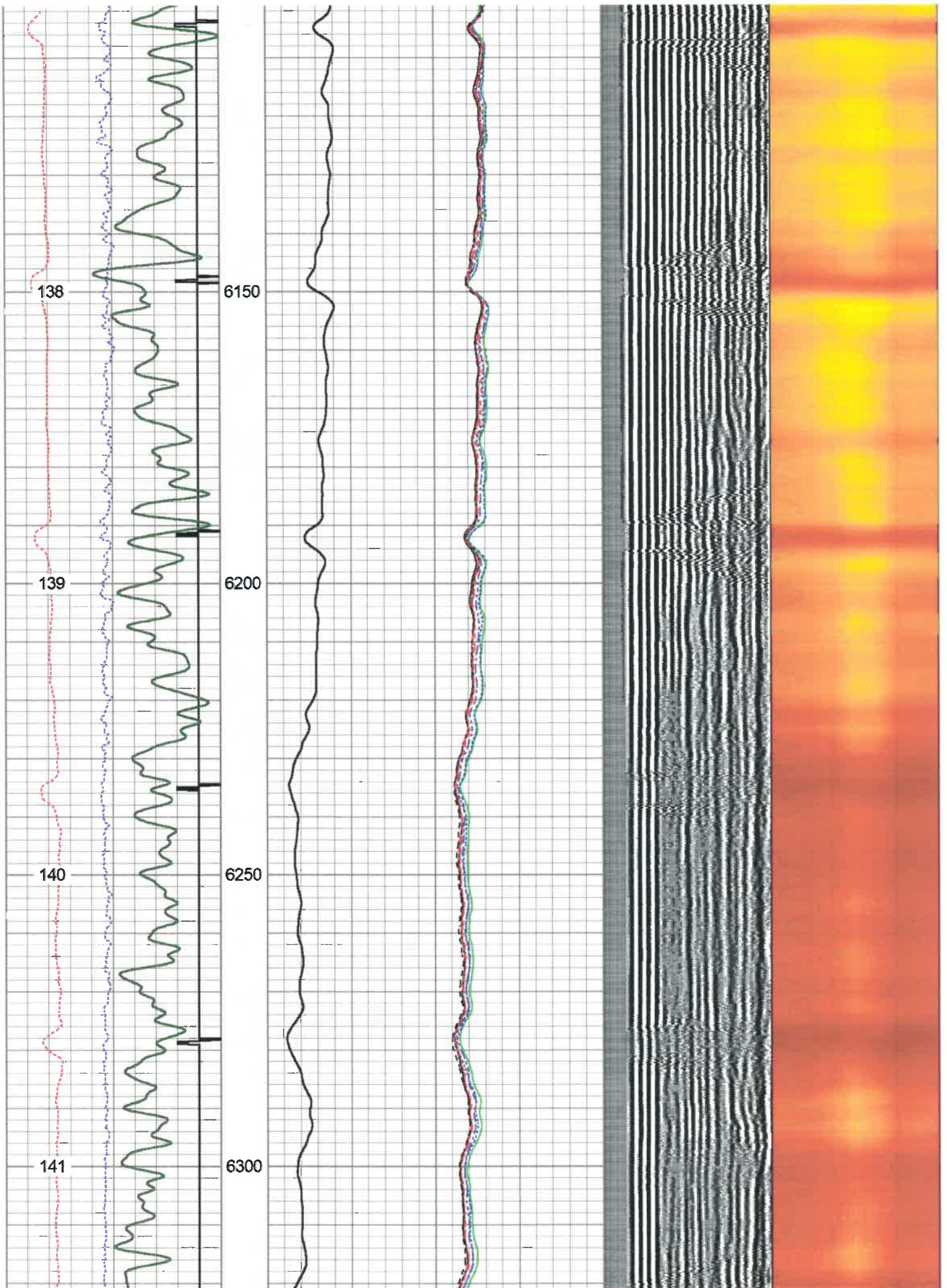


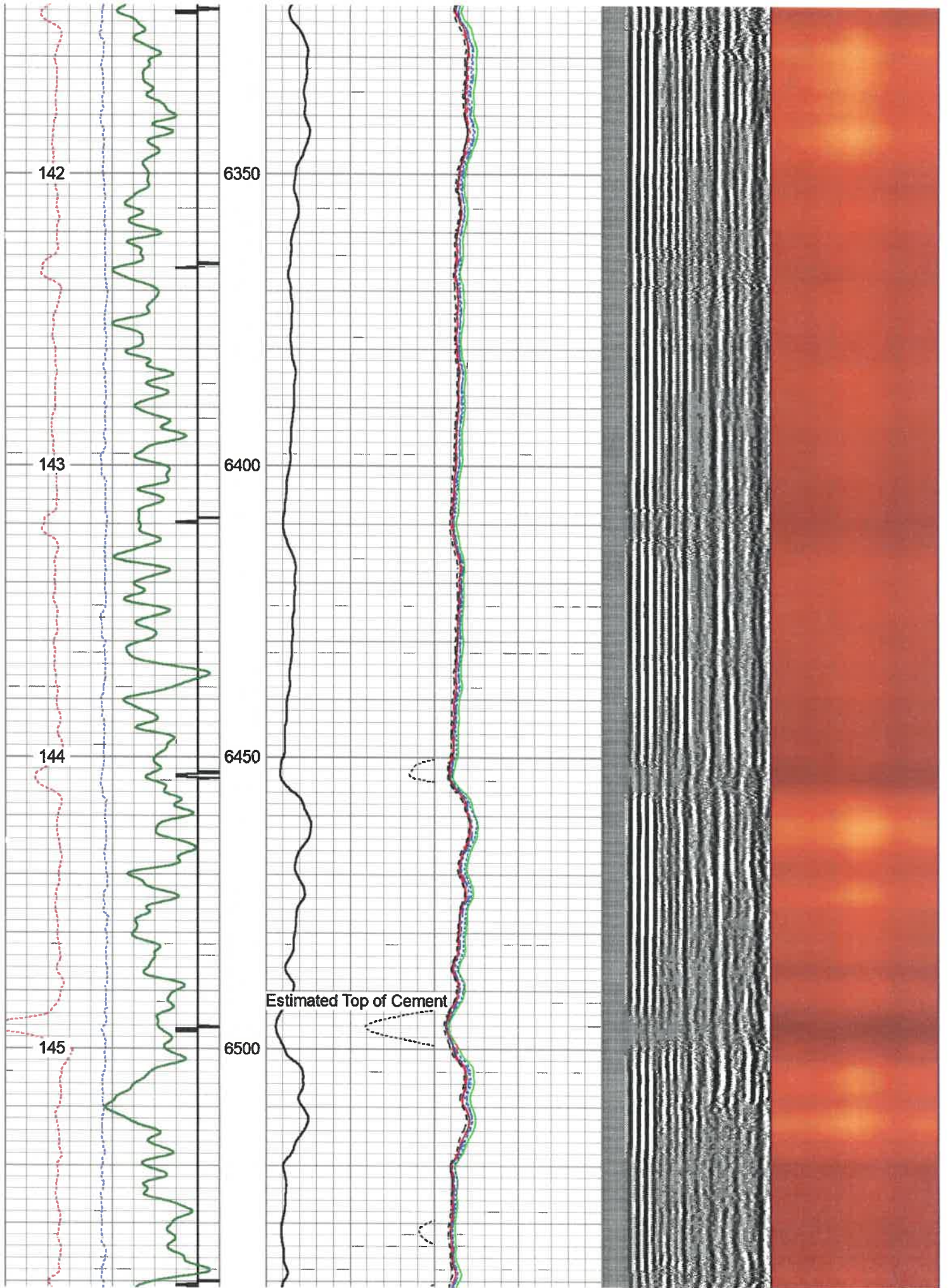


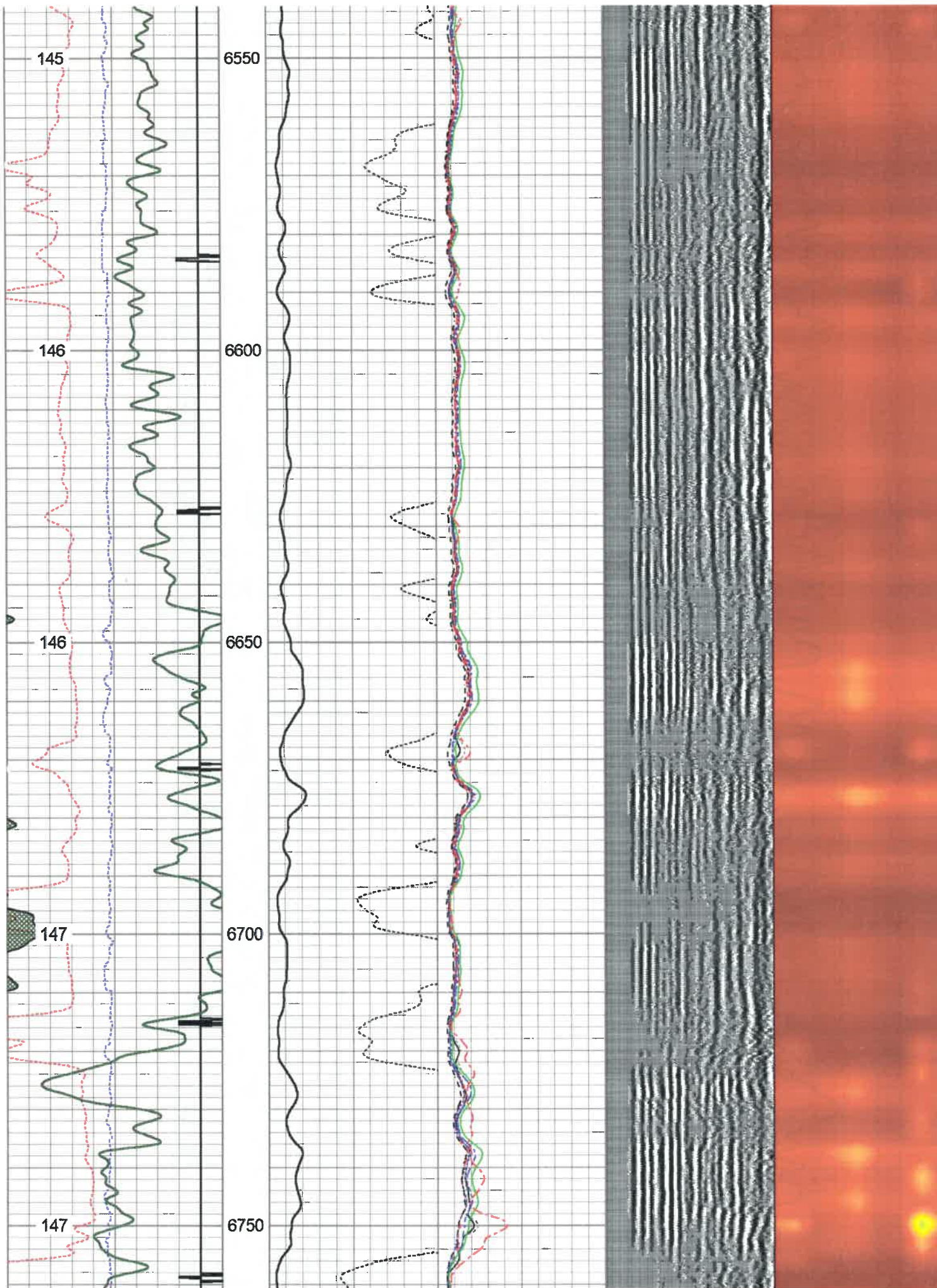


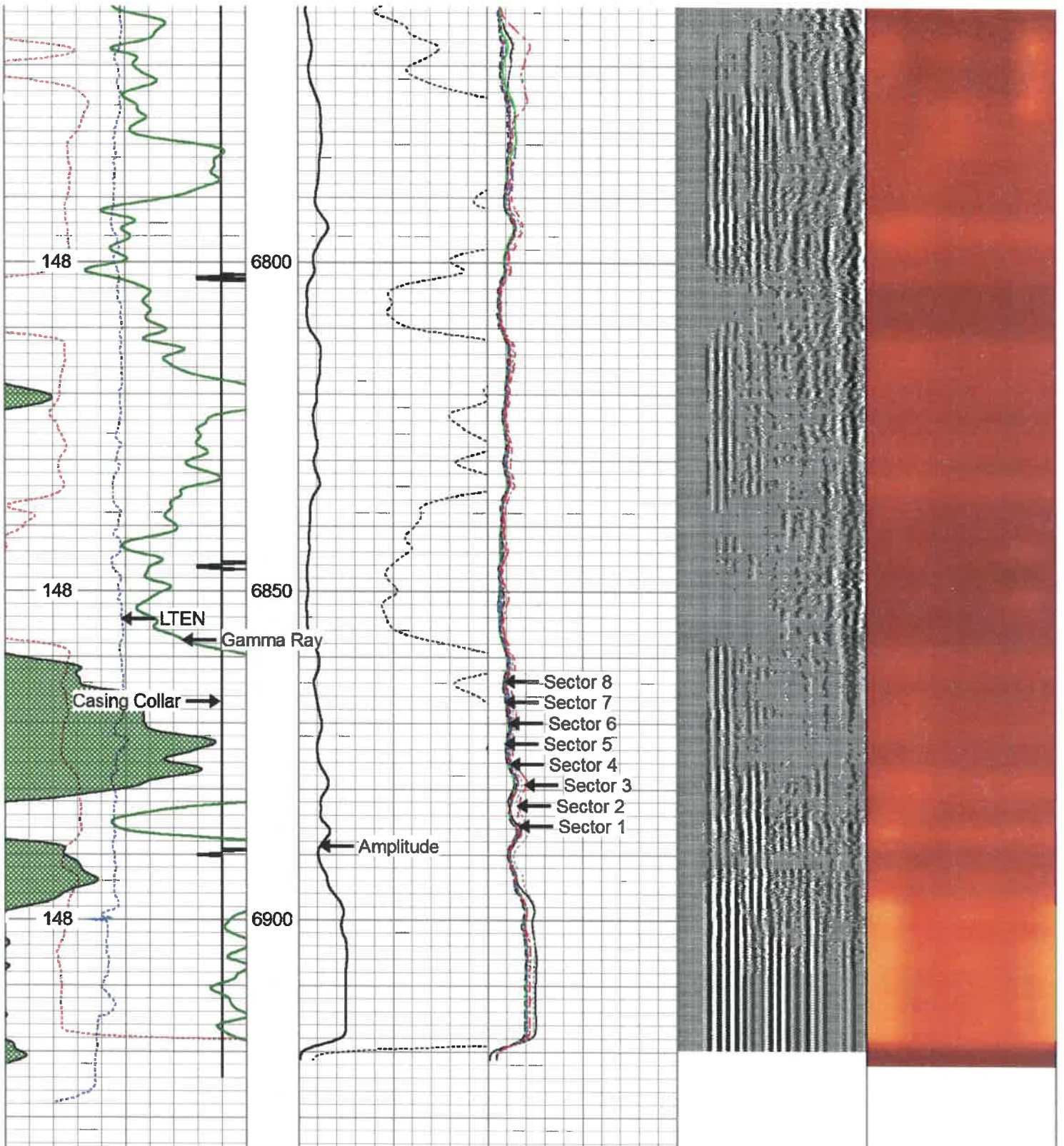












260	Travel Time (usec)	200
Casing Collar		
0	Gamma Ray (GAPI)	150
0	LTEN (lb)	2500
Temp (degF)		

0	Amplitude (mV)	100	-5	Sector 1	150
Amplified Amplitude					
0	(mV)	10	-5	Sector 2	150

0			-5	Sector 3	150

			-5	Sector 4	150

			-5	Sector 5	150

			-5	Sector 6	150

			-5	Sector 7	150

			-5	Sector 8	150

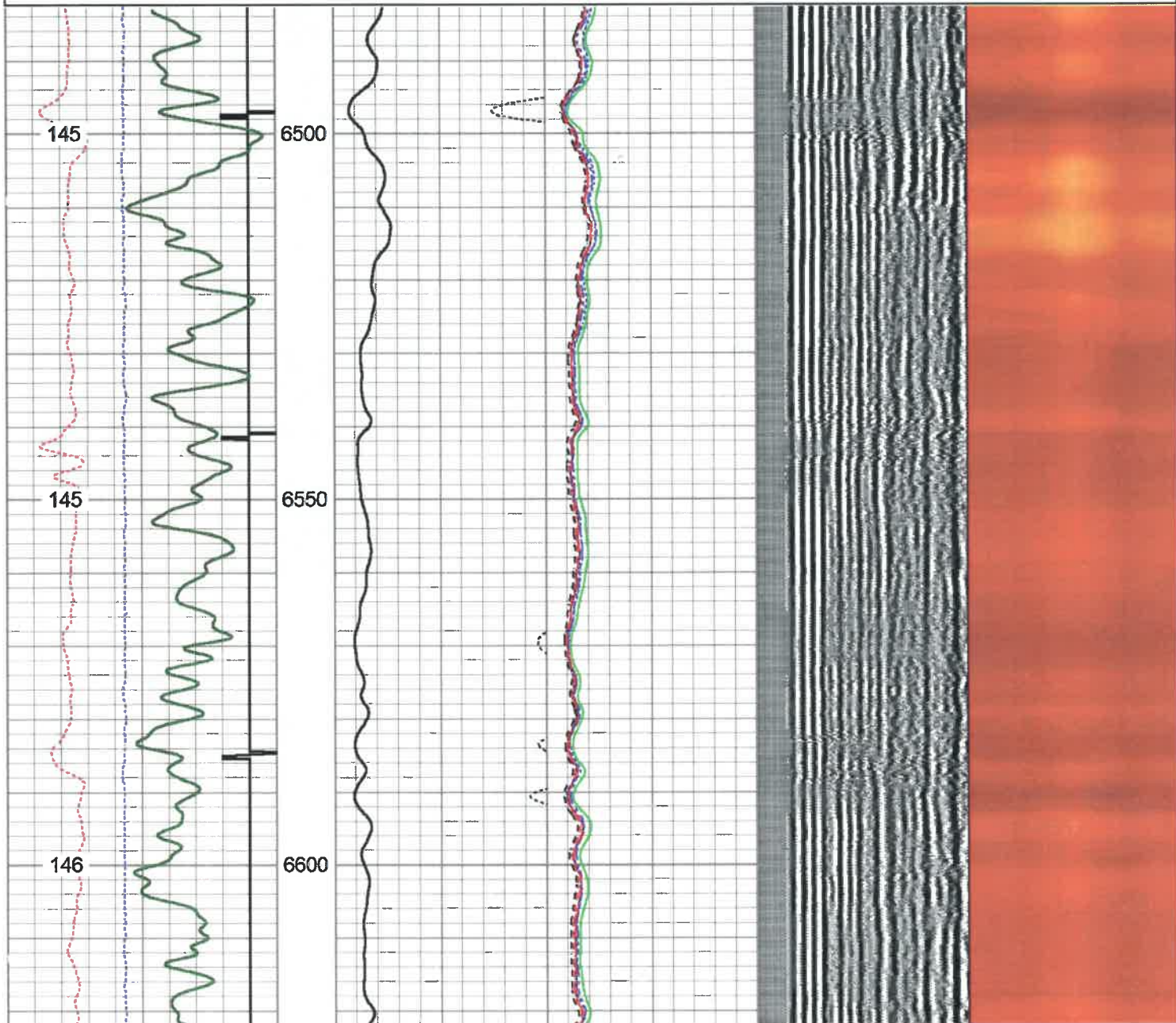
Variable Density	1	Cement Map	8
200	(usec)	1200	

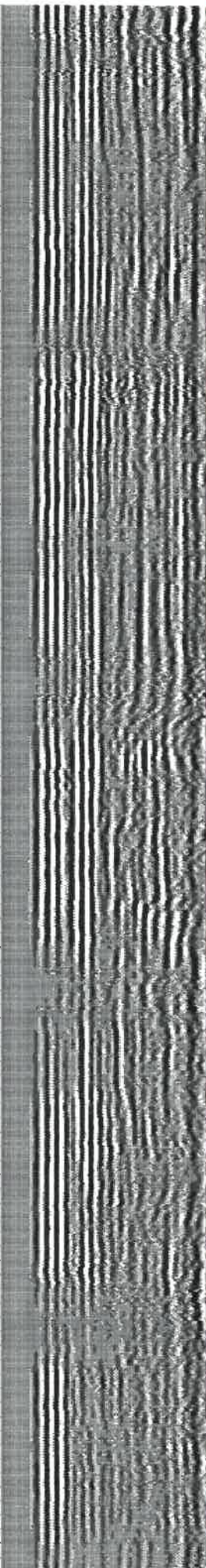
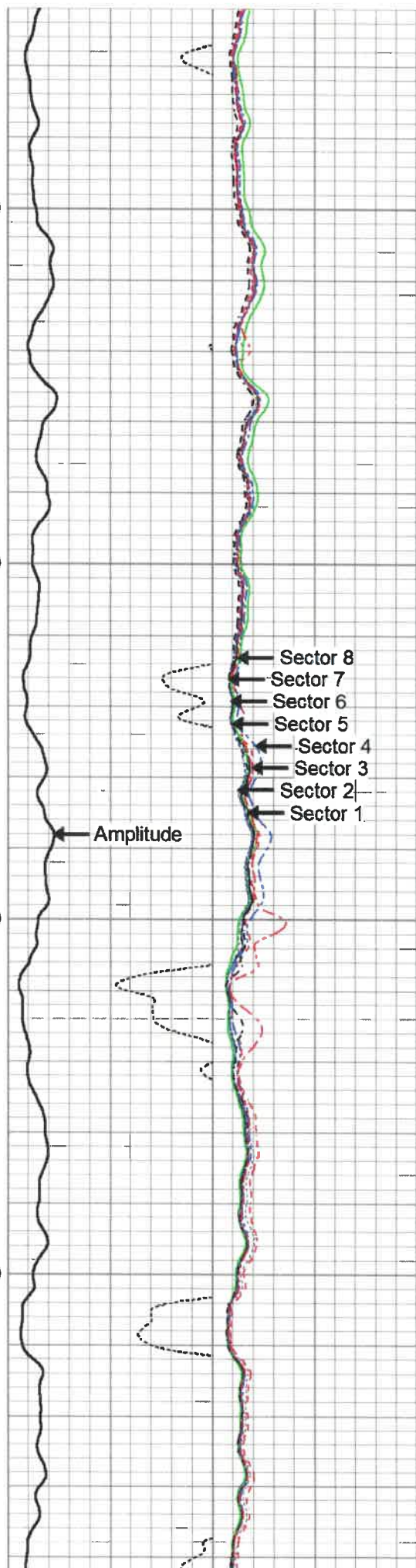
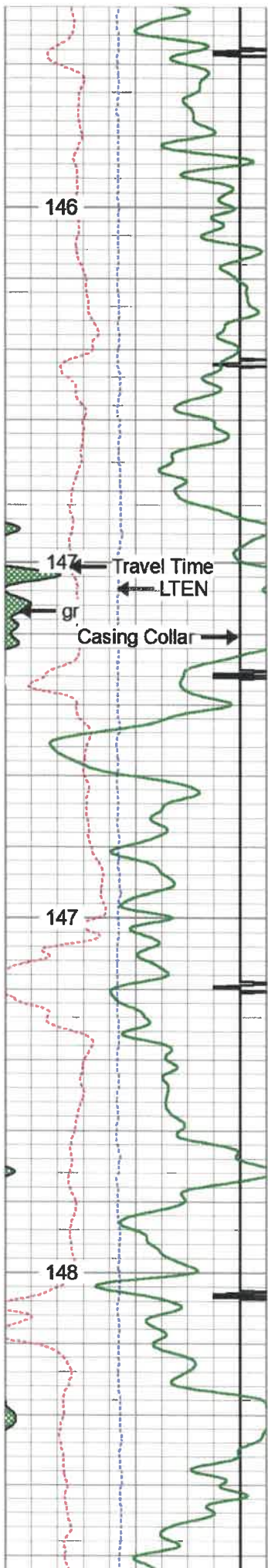


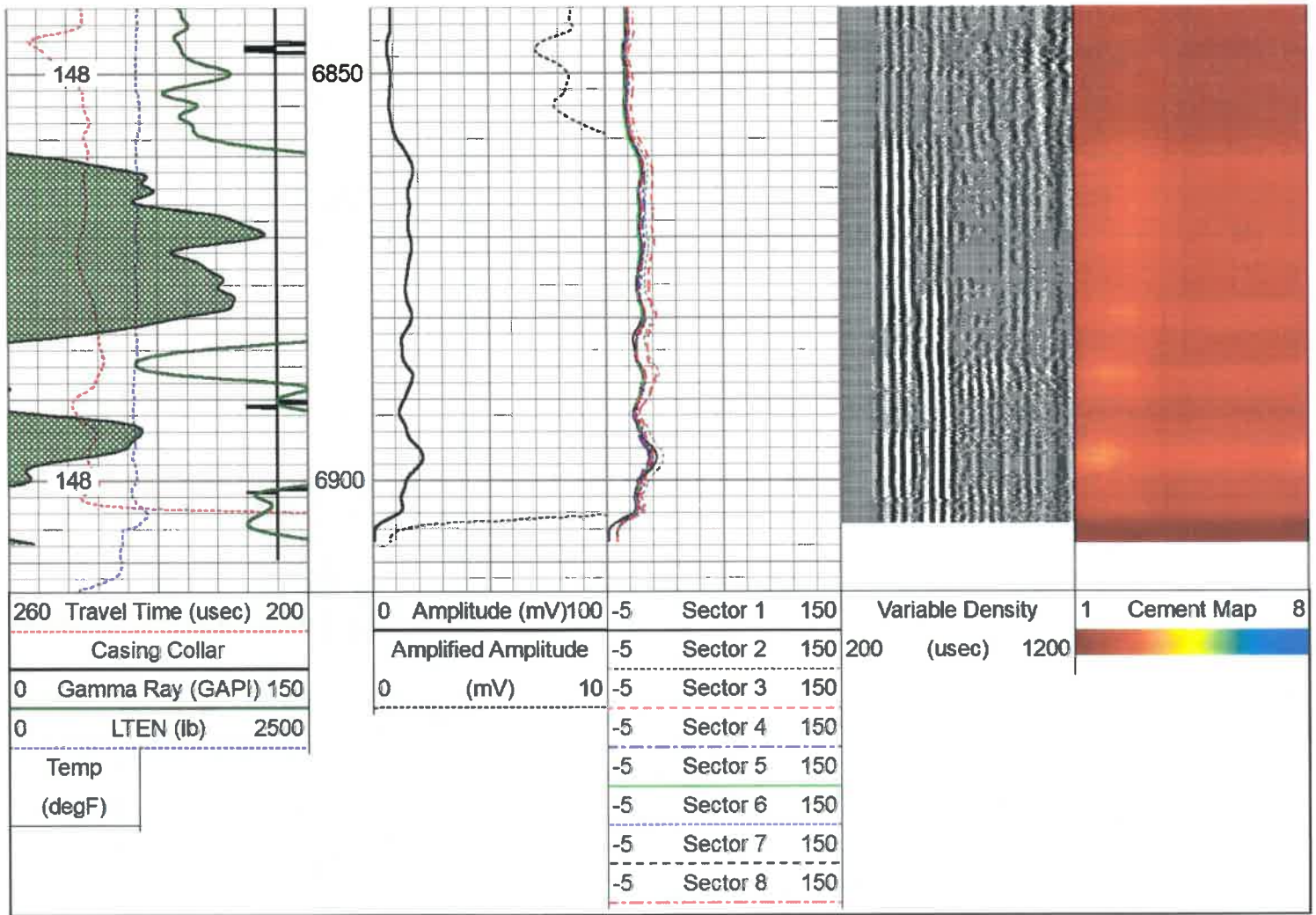
Repeat Pass 0 PSI

Database File c:\users\thomas.weese\desktop\bond logs\antero\colorado east\antero_colorado_east_stampede_2h_rcbl
 Dataset Pathname Marcellus/Stampede_2H/RCBL_1/pass2
 Presentation Format scbl03
 Dataset Creation Sun Mar 15 13:05:25 2020
 Charted by Depth in Feet scaled 1:240

260	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density	1	Cement Map	8
Casing Collar			Amplified Amplitude		-5	Sector 2	150	200	(usec)	1200		
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	Sector 3	150				
0	LTEN (lb)	2500				-5	Sector 4	150				
Temp (degF)						-5	Sector 5	150				
						-5	Sector 6	150				
						-5	Sector 7	150				
						-5	Sector 8	150				







Log Variables

Database: \users\thomas.weese\desktop\bond logs\antero\colorado east\antero_colorado_east_st
 Dataset Marcellus/Stampede_2H/RCBL_1/pass7/_vars_

Top - Bottom

BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL
TEMP	7.875	148	5.5	0.361	20	71.921	2.2
MINATTN	PERFS	PPT	SRFTEMP	TDEPTH			
db/ft	No	usec	degF	ft			
0.8		0	0	0			

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
 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

Calibration Report

Database File c:\users\thomas.weese\desktop\bond logs\antero\colorado east\antero_colorado_east_stampede_2h.db
 Dataset Pathname Marcellus/Stampede_2H/RCBL_1/pass7
 Dataset Creation Sun Mar 15 13:13:49 2020

Serial Number: FW1211-86
 Tool Model: Probe
 Performed: Mon Feb 03 15:18:32 2014

 Calibrator Value: 1.0 GAPI

 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

 Sensitivity: 0.8000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1312-32
 Tool Model: Probe275T

 Calibration Casing Diameter: 5.500 in
 Calibration Depth: 14.583 ft

Master Calibration, performed Sun Mar 15 06:52:23 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.017	0.831	2.200	71.921	105.629	0.746
CAL	1.030	1.032				
5'	0.006	0.818	2.200	71.921	105.869	1.672
SUM						
S1	0.068	0.875	2.200	71.921	106.476	-3.710
S2	0.001	0.814	2.200	71.921	105.692	2.136
S3	0.008	0.814	2.200	71.921	106.553	1.492
S4	0.006	0.808	2.200	71.921	106.952	1.639
S5	0.006	0.815	2.200	71.921	106.159	1.721
S6	0.006	0.823	2.200	71.921	105.408	1.670
S7	0.006	0.815	2.200	71.921	106.155	1.667
S8	0.007	0.818	2.200	71.921	105.973	1.591

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.030	1.032	1.000	0.000

Air Zero Calibration, performed Sun Mar 15 06:44:47 2020:

	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	Length (ft)	O.D. (in)	Weight (lb)
HeadVolt	14.11		CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
Temp	11.27		CENT-Overbody Antelope (SP-919-0233)	1.67	4.88	5.00
WVFS8	9.03		RBT-Probe275T (FW1312-32) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00
WVFS7	9.03					
WVFS6	9.03					
WVFS5	9.03					
WVFS4	9.03					
WVFS3	9.03					
WVFS2	9.03					
WVFS1	9.03					
WVF3FT	9.03		WVFCAL HEADVOLT	4.78	4.78	
WVF5FT	8.03					
CCL	3.88		GR-Probe (FW1211-86) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
GR	2.54			CENT-Overbody Antelope (SP-919-0233)	1.67	4.88

Dataset: antero_colorado_east_stampede_2h.db: Marcellus/Stampede_2H/RCBL_1/pass7
 Total length: 15.17 ft
 Total weight: 162.00 lb
 O.D.: 4.88 in



Nine

Company	Antero Resources
Well	Stampede Unit 2H
Field	North Canton
County	Tyler
State	West Virginia

