



Nine

RADIAL BOND LOG

Company ANTERO
 Well LANCASTER 2H
 Field TYLER
 County TYLER
 State WEST VIRGINIA

Company ANTERO

Well LANCASTER 2H

Field TYLER

County TYLER

State ¹⁶⁷⁵WEST VIRGINIA

Location: API #: 47-095-0265-0000

Other Services
GR
CCL

SEC TWP RGE

Permanent Datum GL Elevation 1014.5'

Log Measured From KB KB K.B. 1040'
Drilling Measured From KB KB D.F. 1039'
G.L. 1014.5'

Date 17-JUNE-2020

Run Number TWO

Depth Driller 14509'

Depth Logger 14164'

Bottom Logged Interval 14146'

Top Log Interval SURFACE

Open Hole Size 6.75"

Type Fluid FRESH WATER

Density / Viscosity 8.3#

Max. Recorded Temp. 141°F

Estimated Cement Top N/A

Time Well Ready 07:30

Time Logger on Bottom 12:50

Equipment Number TK-122

Location CHARLEROI, PA

Recorded By D.JOSEPHIK

Witnessed By REGGIE TAYLOR

Borehole Record

Tubing Record

To

Bit

From

To

Size

Weight

From

To

Size

Wgt/Ft

Top

Bottom

5"

18#

SURFACE

14509'

14509'

<<< Fold Here >>>

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 CORRELATED TO CASING TALLY PER C.M.

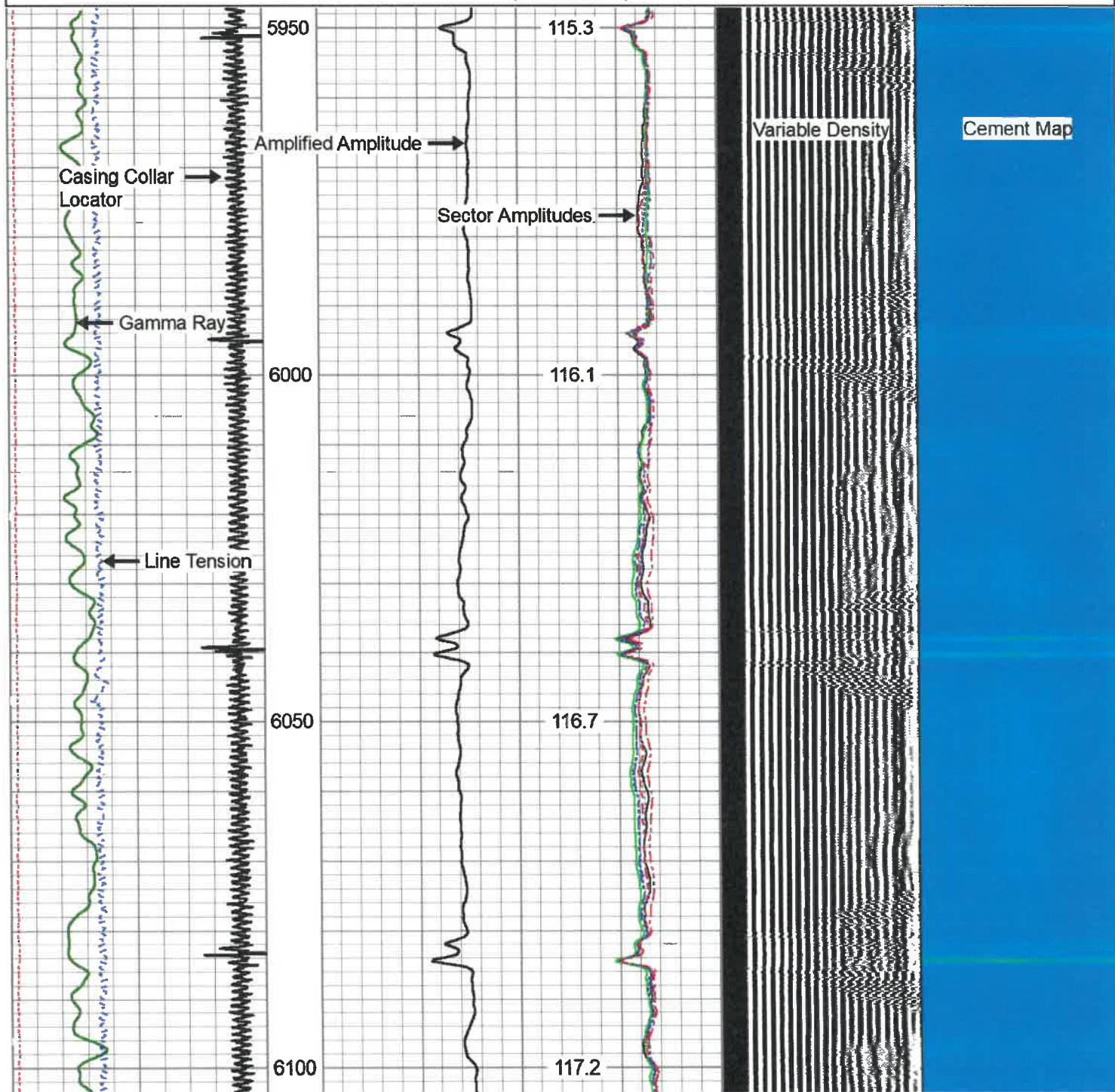
MARKER JOINT @ 5729'
100% BONDED PIPE=2.4mv
100%FREE PIPE=77mv

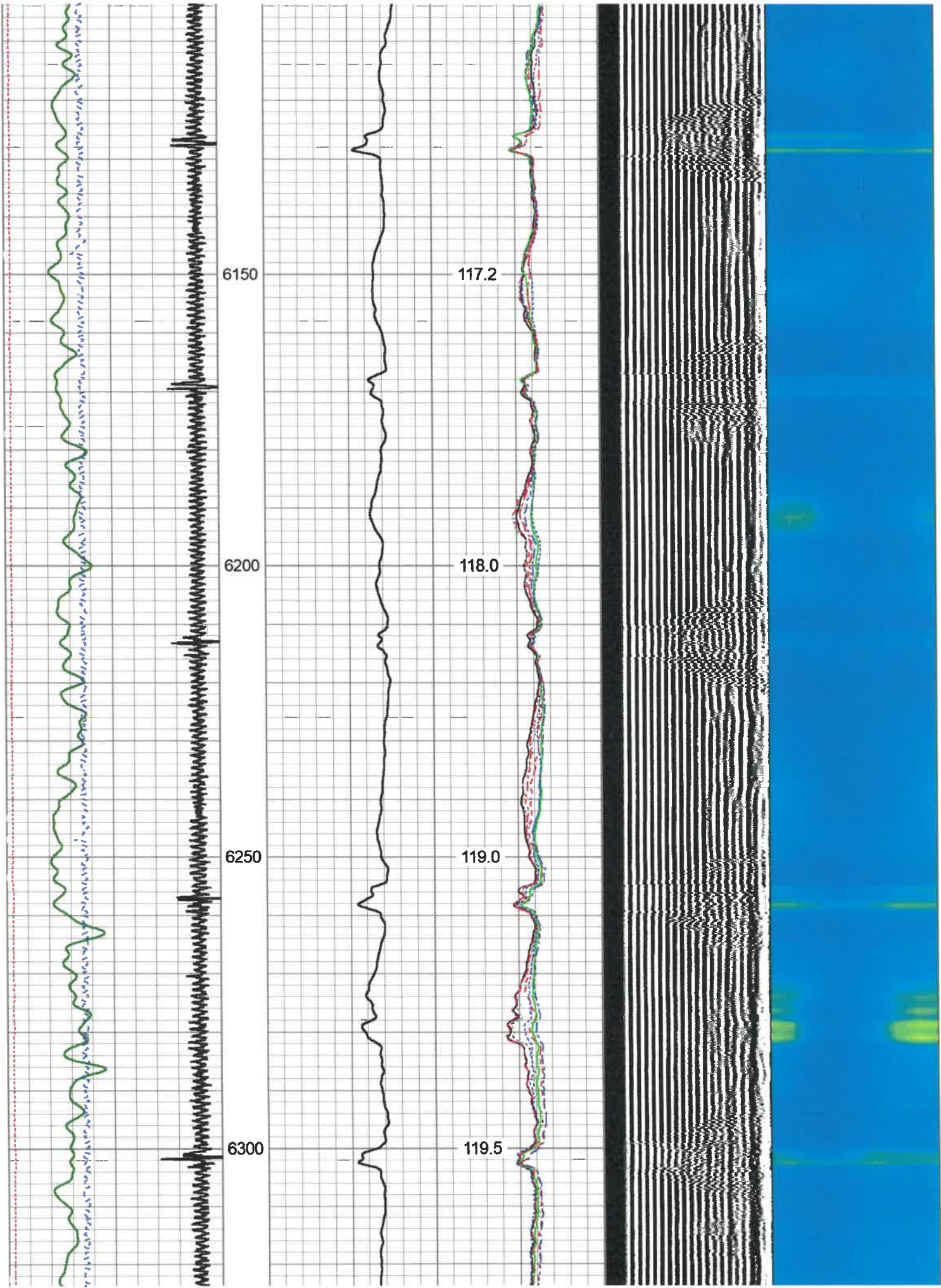


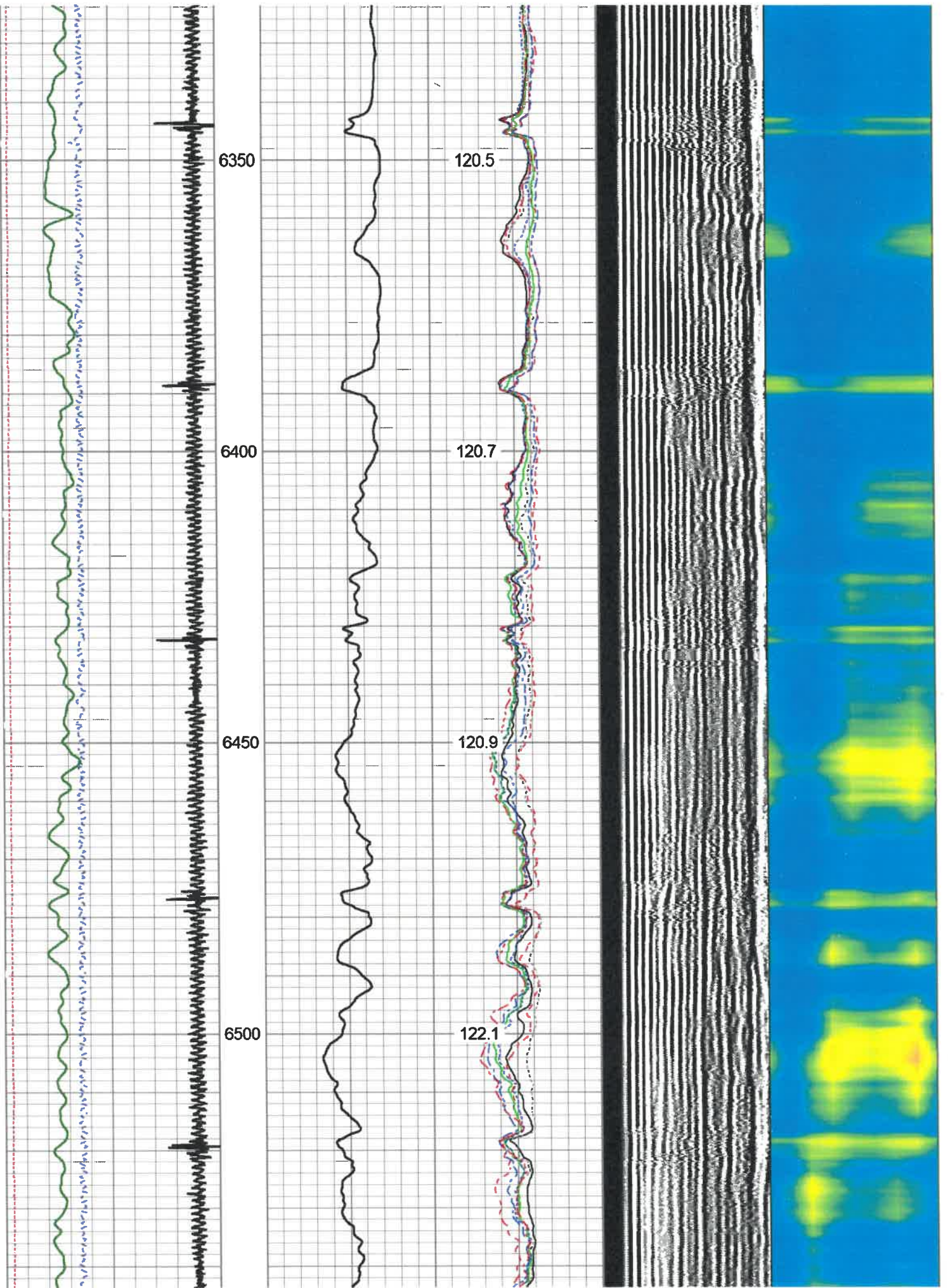
Main Pass

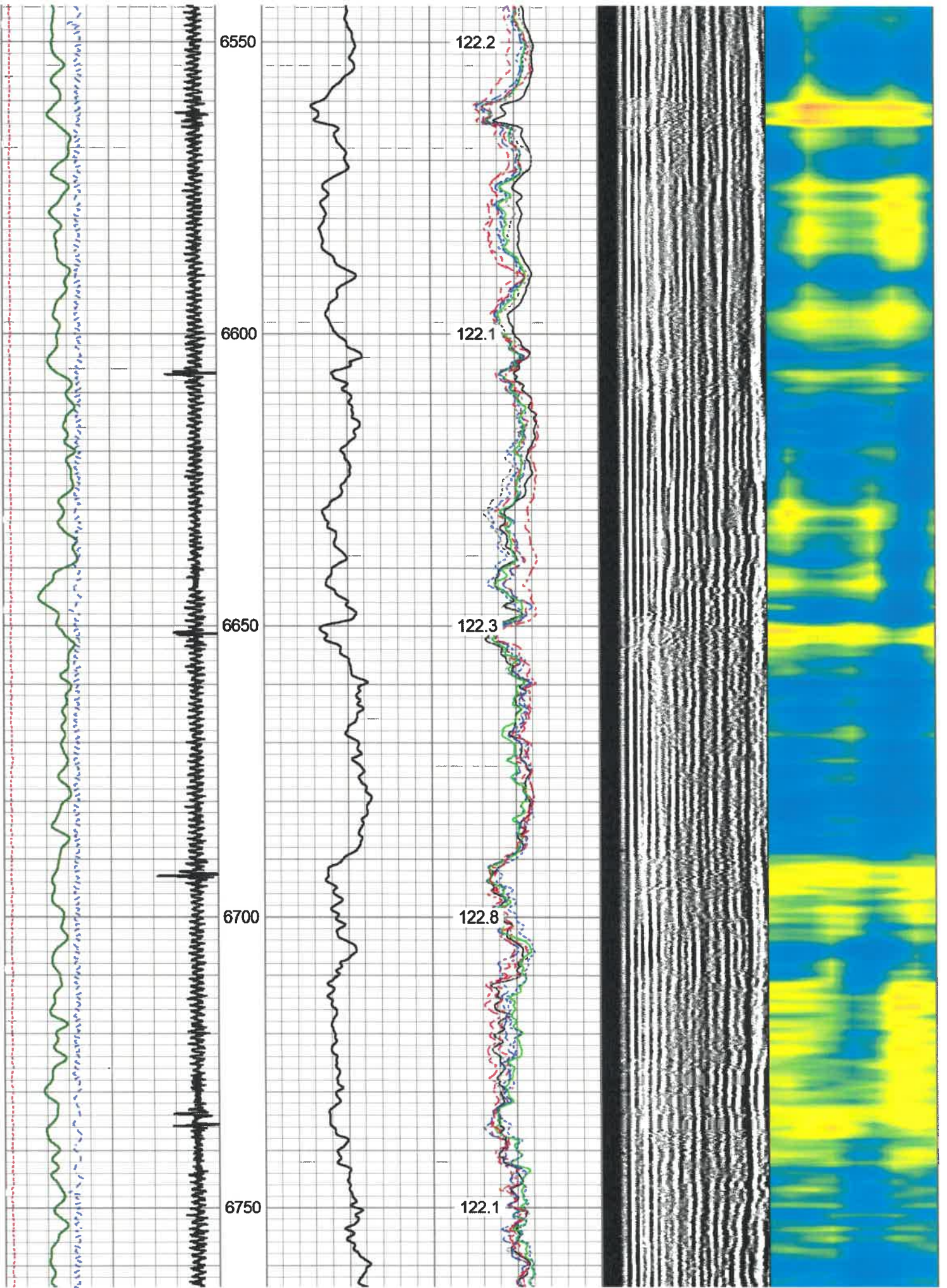
Database File antero_hogue_lancaster2h_june_16_2020.db
 Dataset Pathname run2/pass13.1
 Presentation Format 9rcbl
 Dataset Creation Thu Jun 25 13:57:48 2020
 Charted by Depth in Feet scaled 1:240

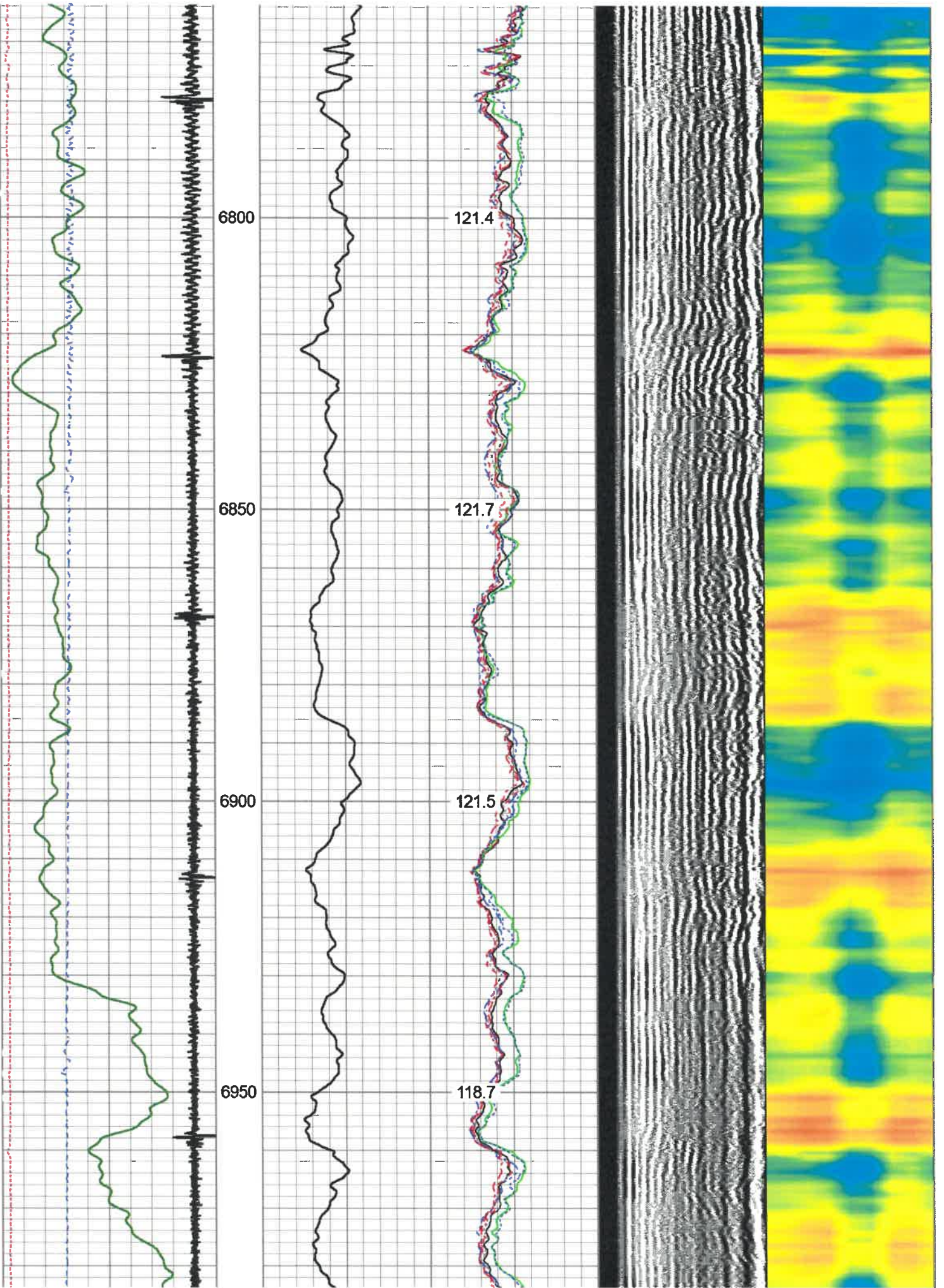
235	Travel Time (usec)	135	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1		Amplified Amplitude		-5	Sector 2	150	200	(usec)	1200	
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	Sector 3	150				
0	Line Tension (lb)	5000				-5	Sector 4	150				
						-5	Sector 5	150				
						-5	Sector 6	150				
						-5	Sector 8	150				
							TEMP					
							(degF)					

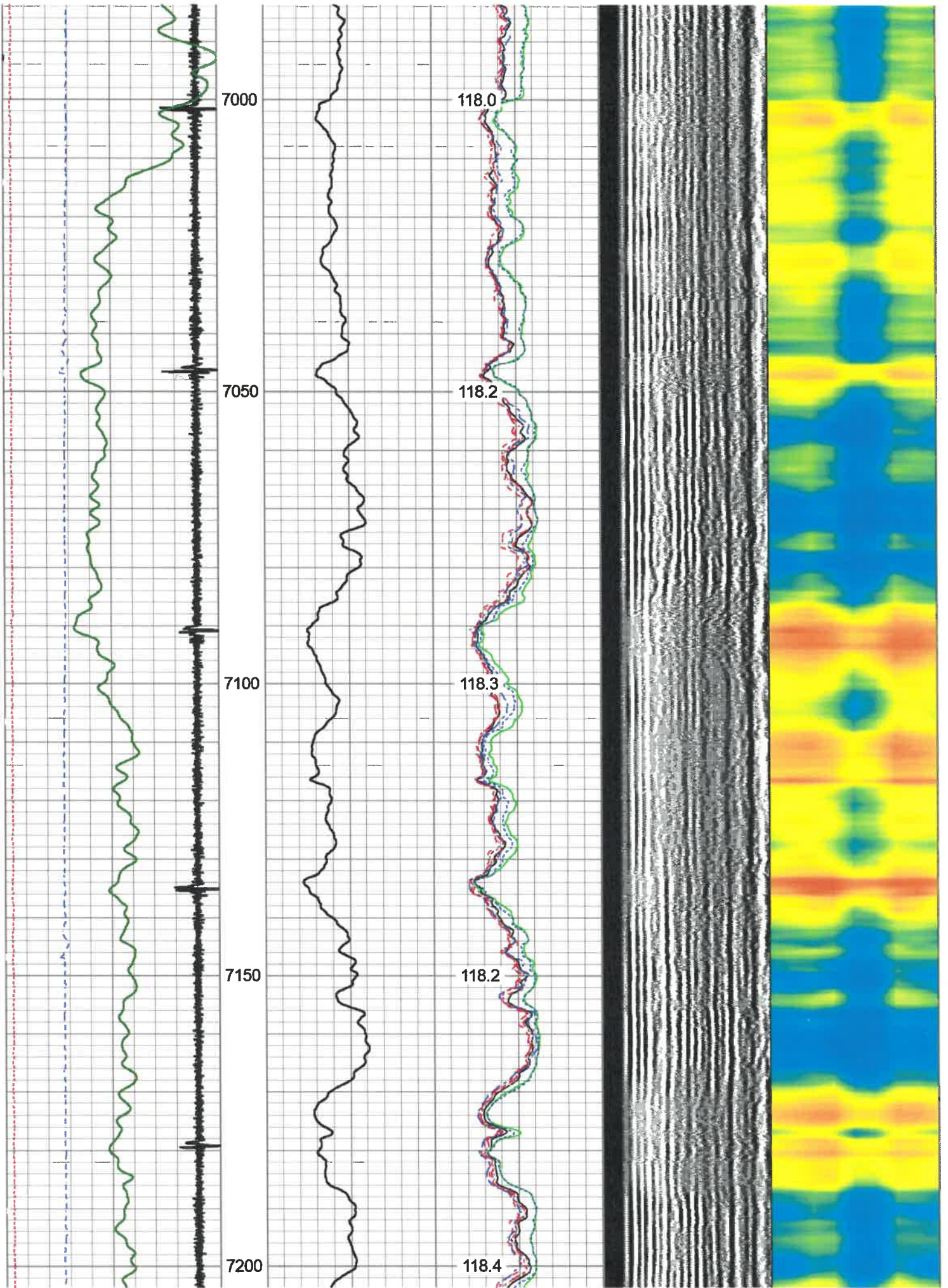


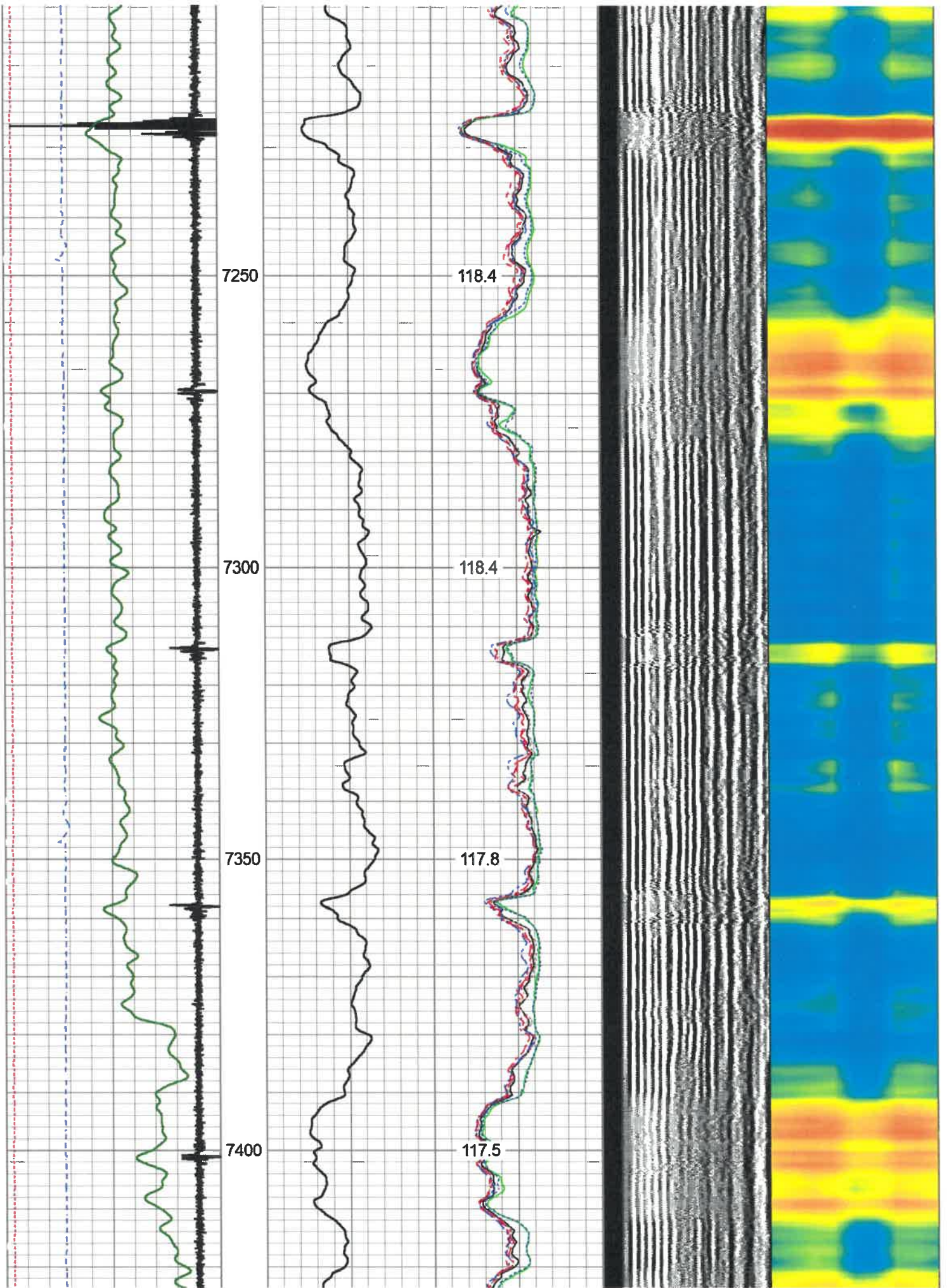


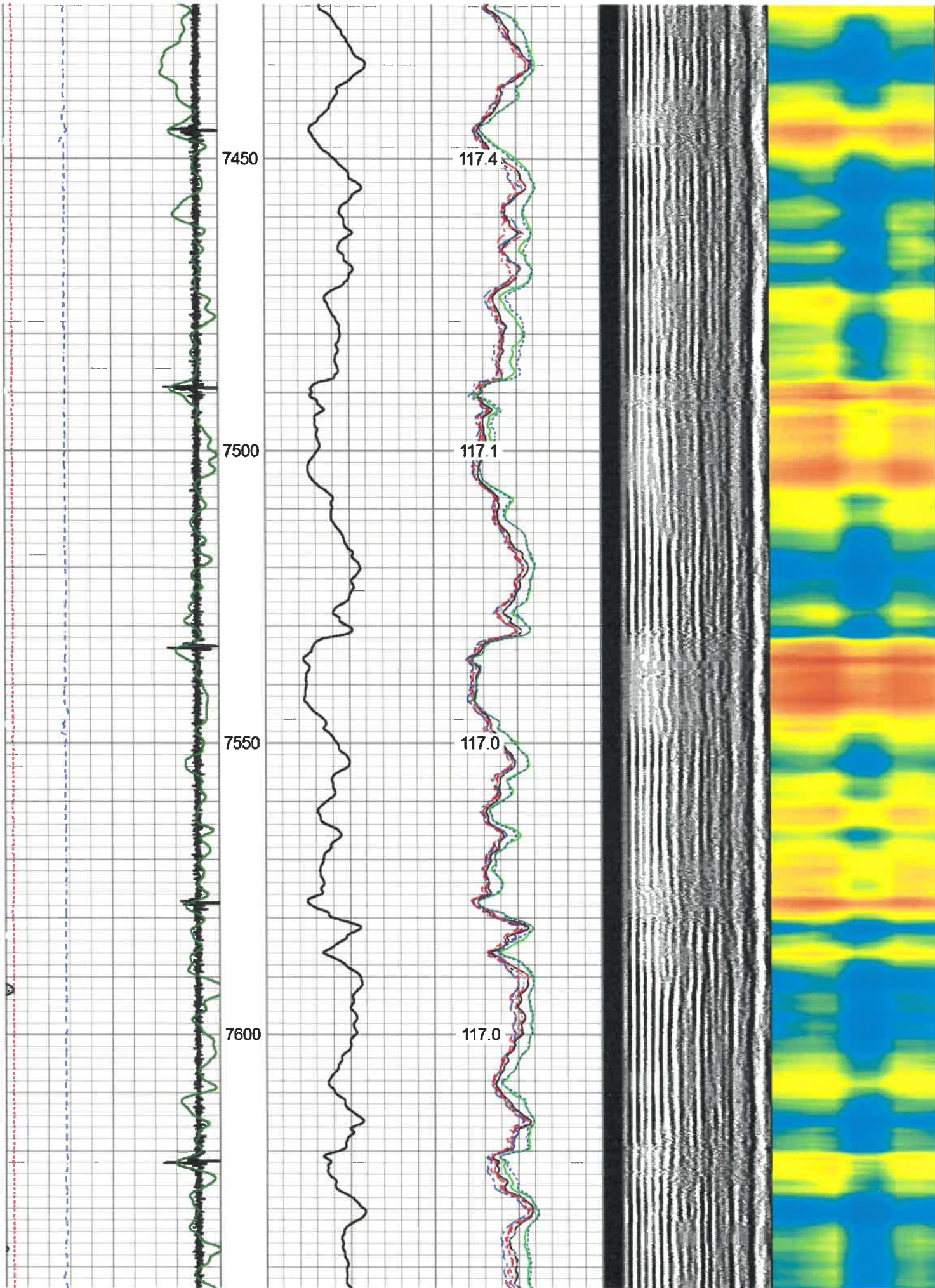


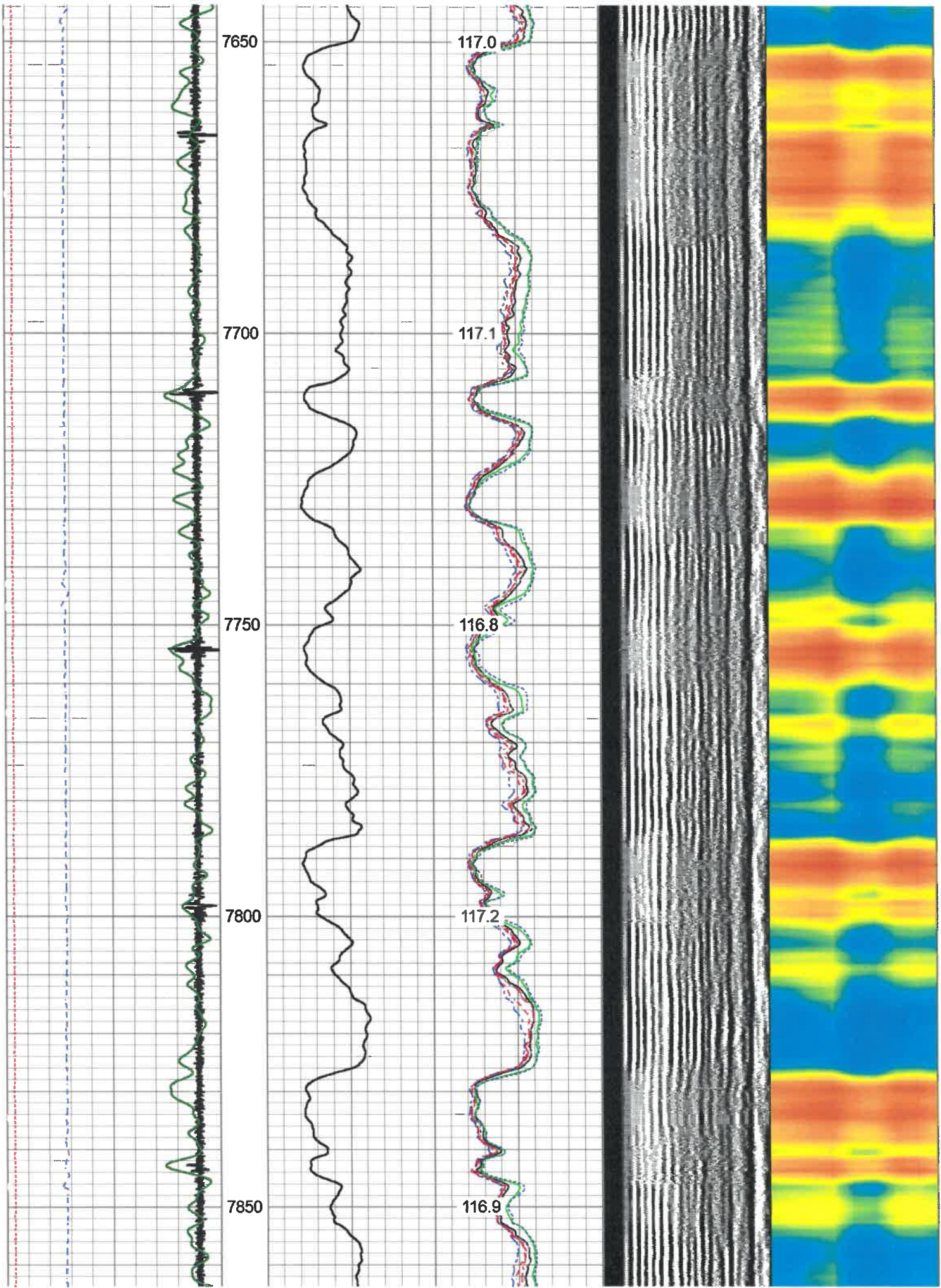


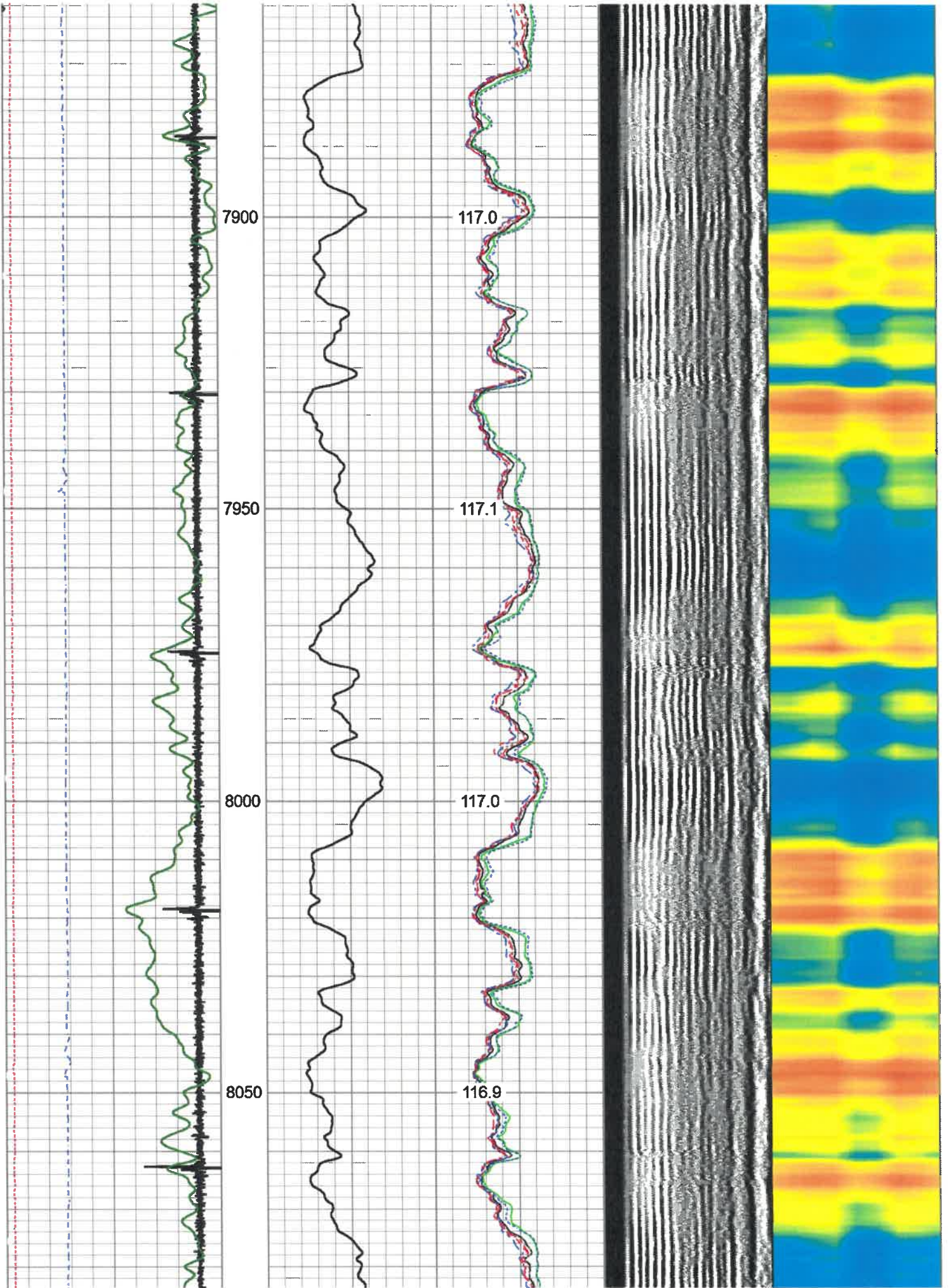


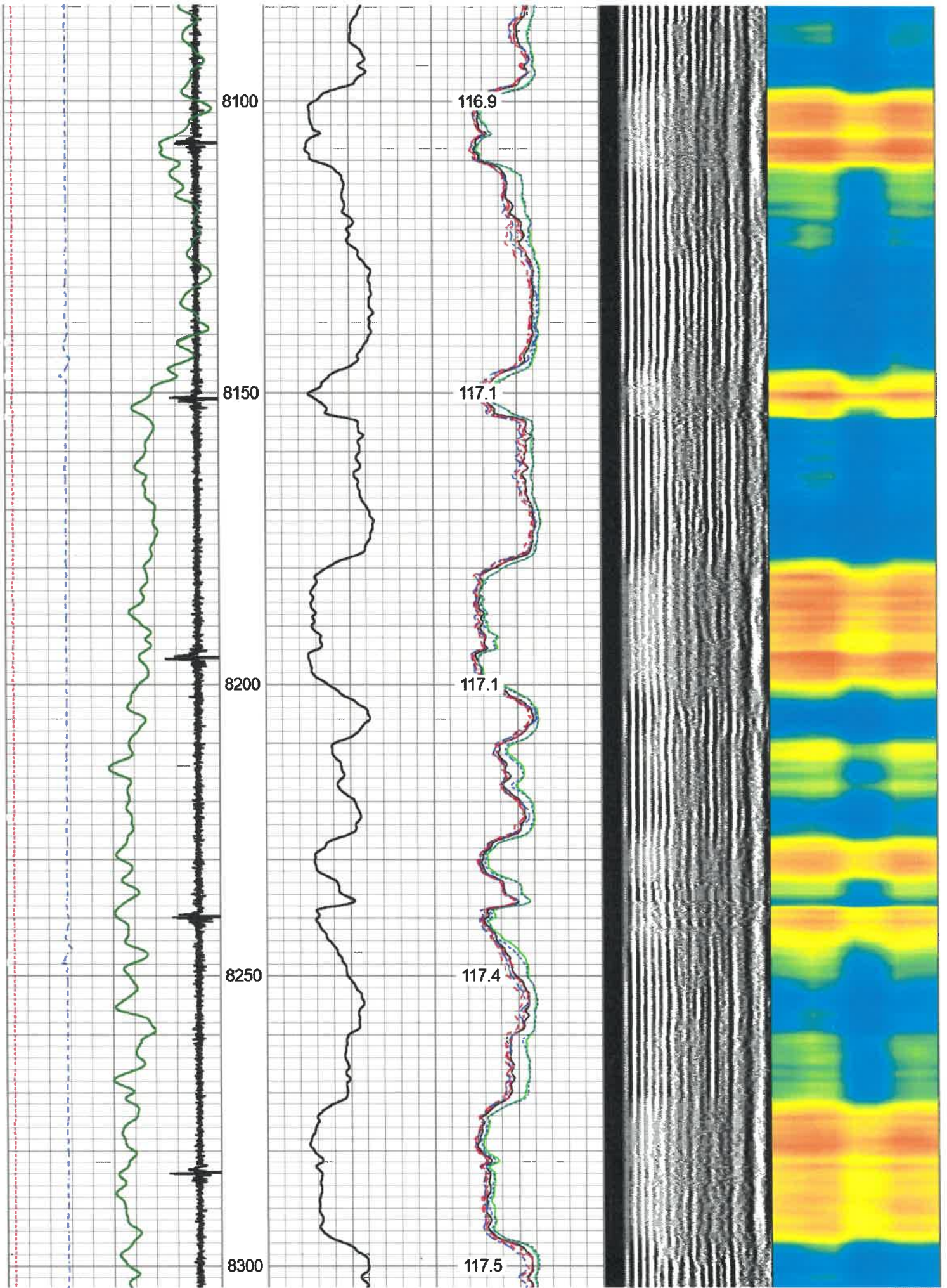


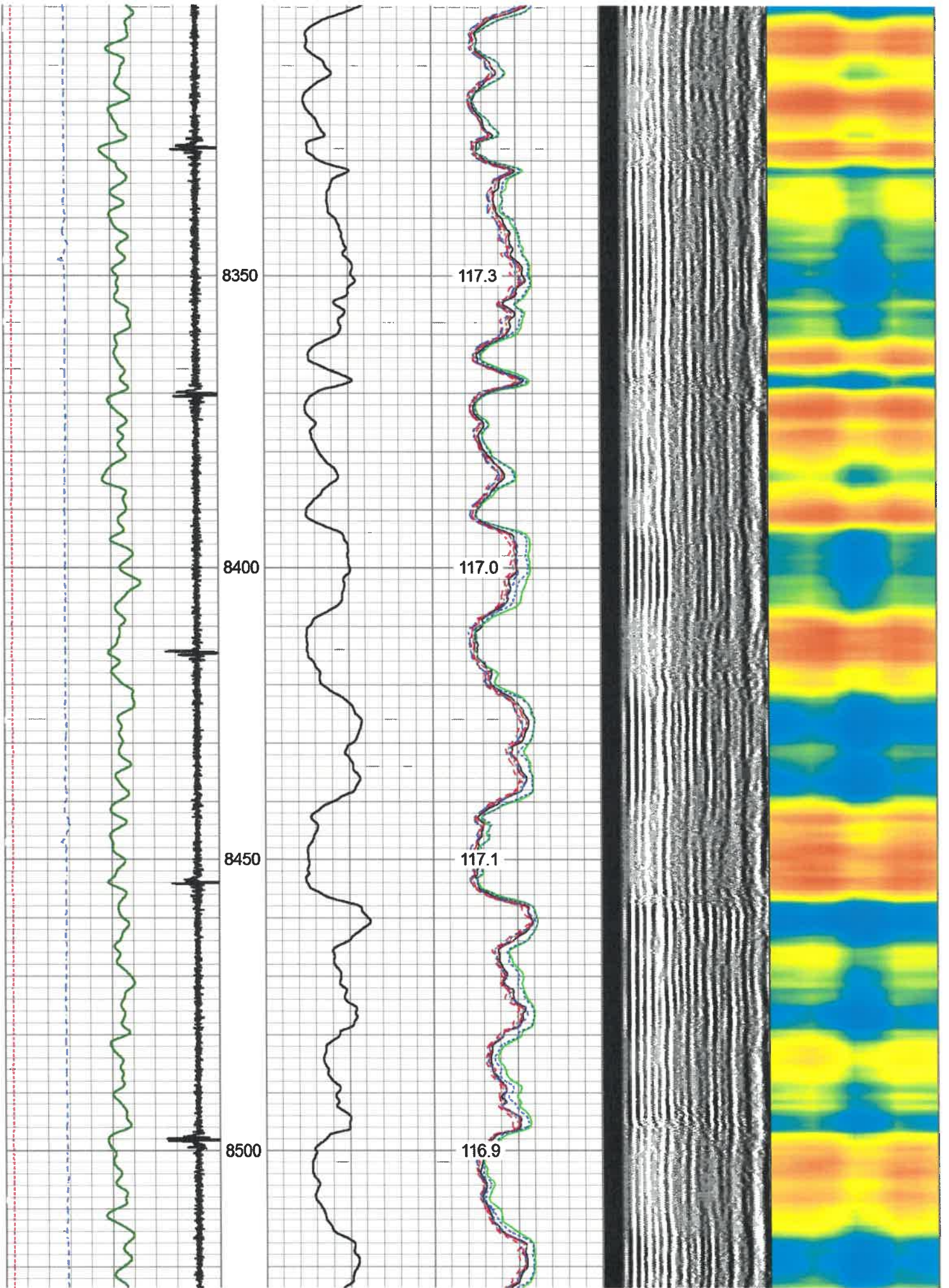


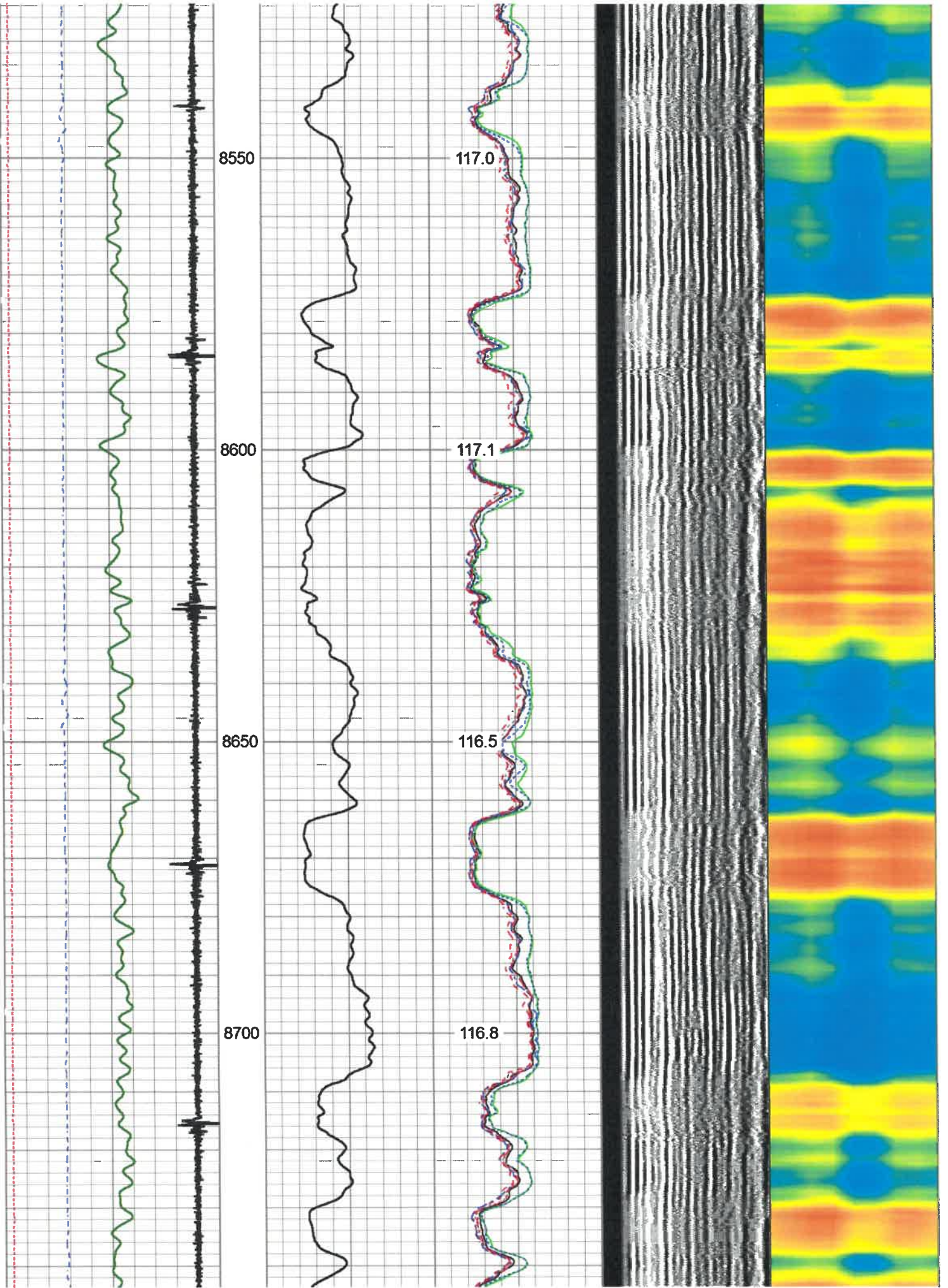


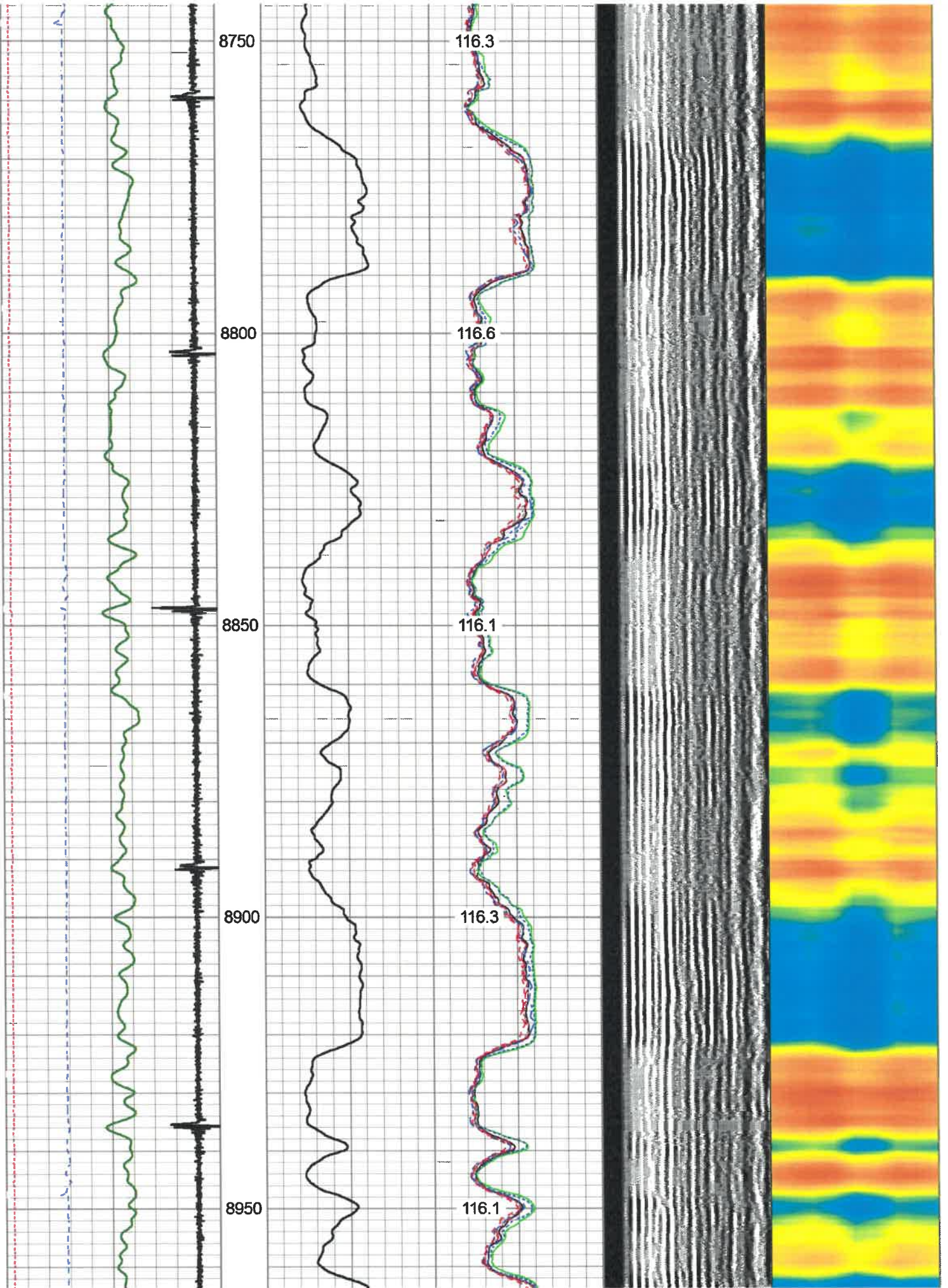


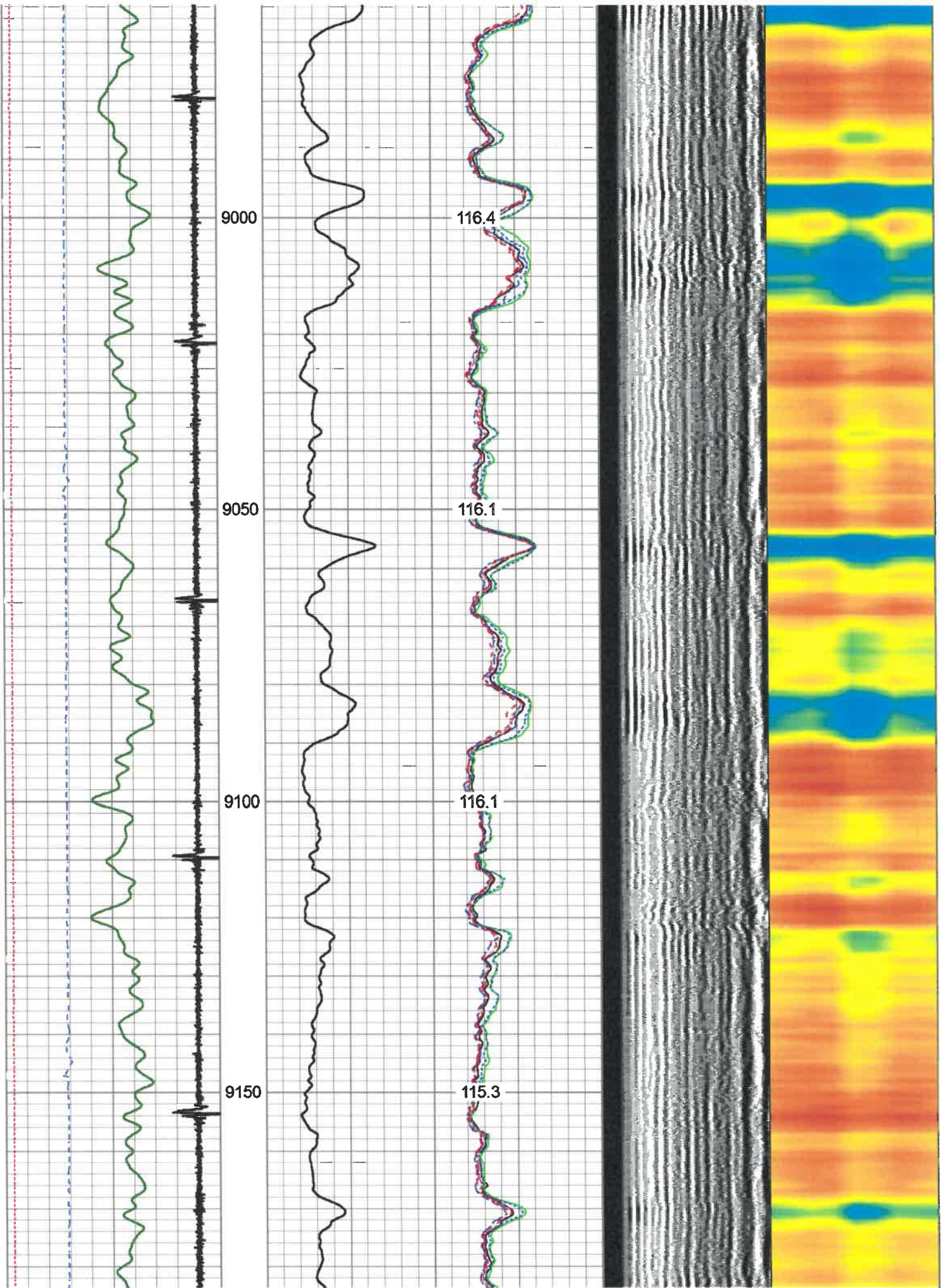


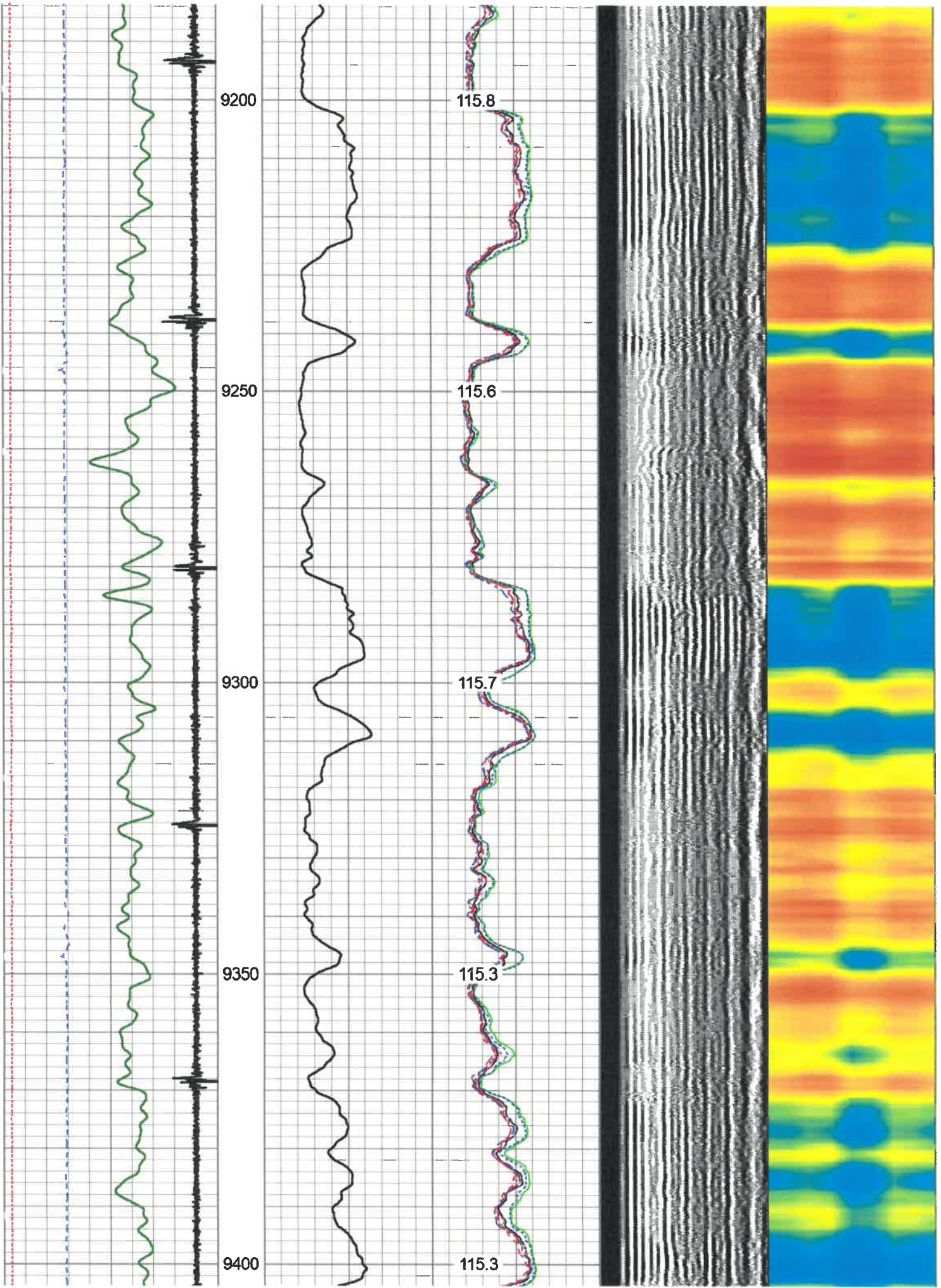


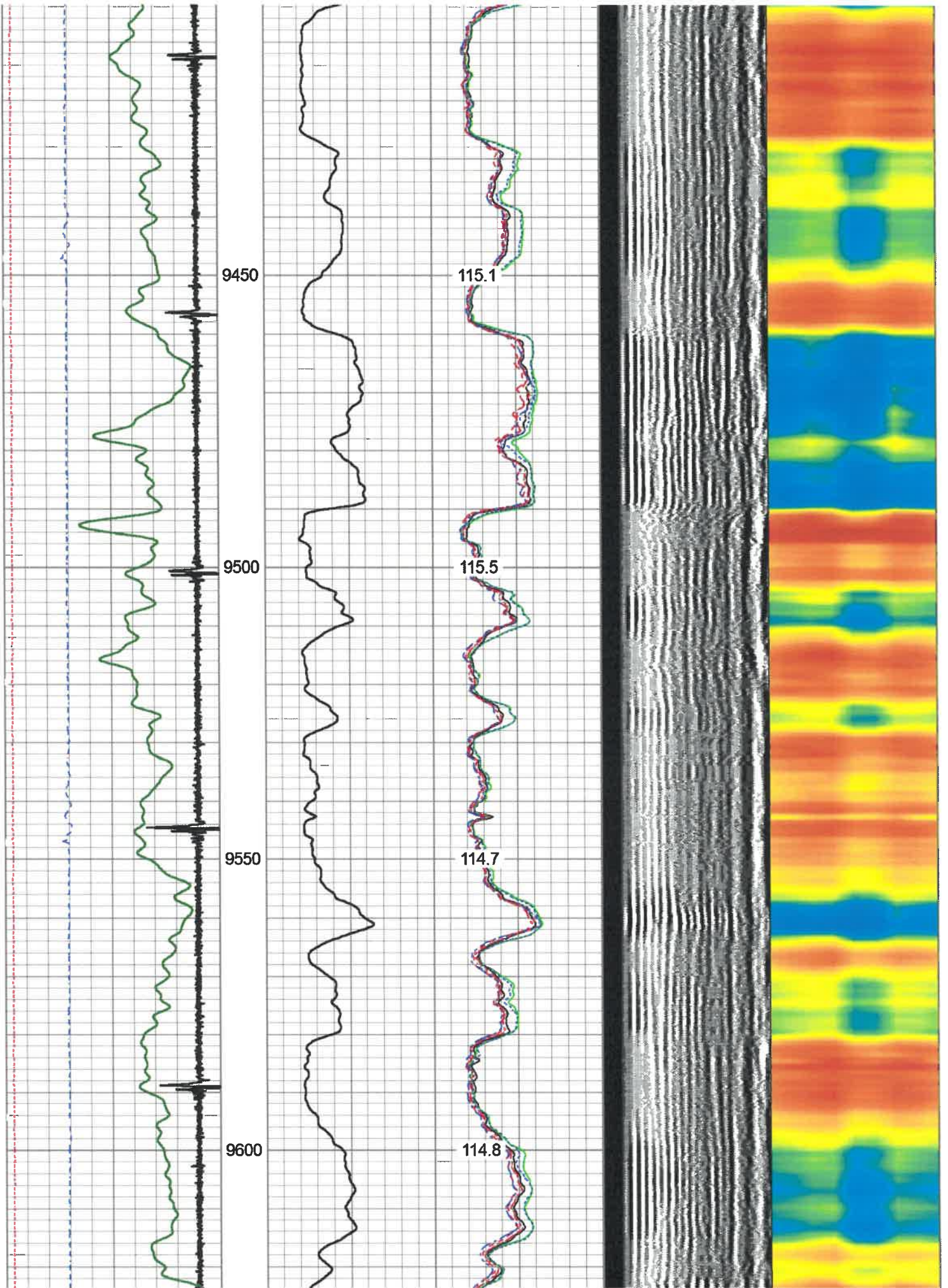


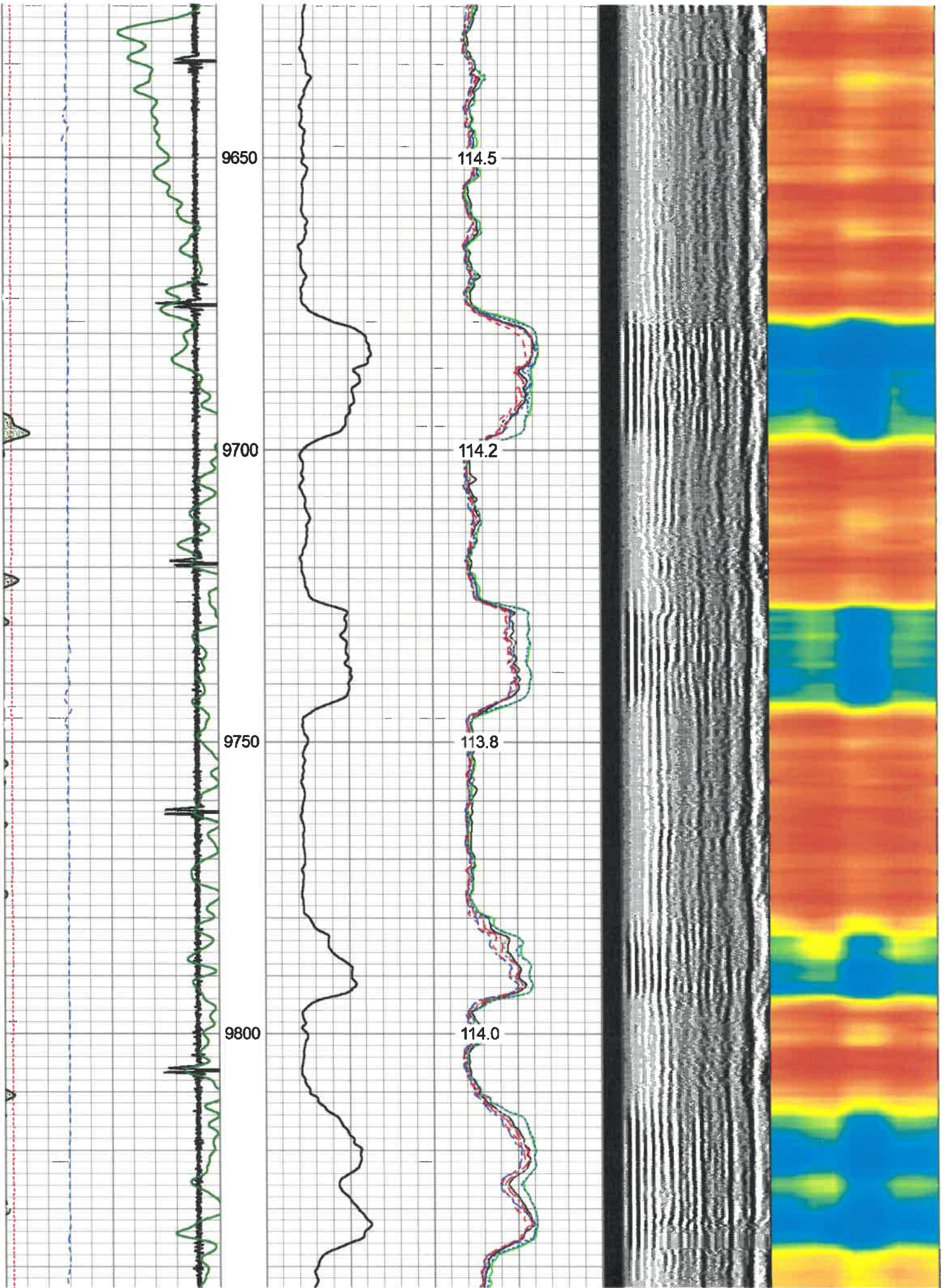


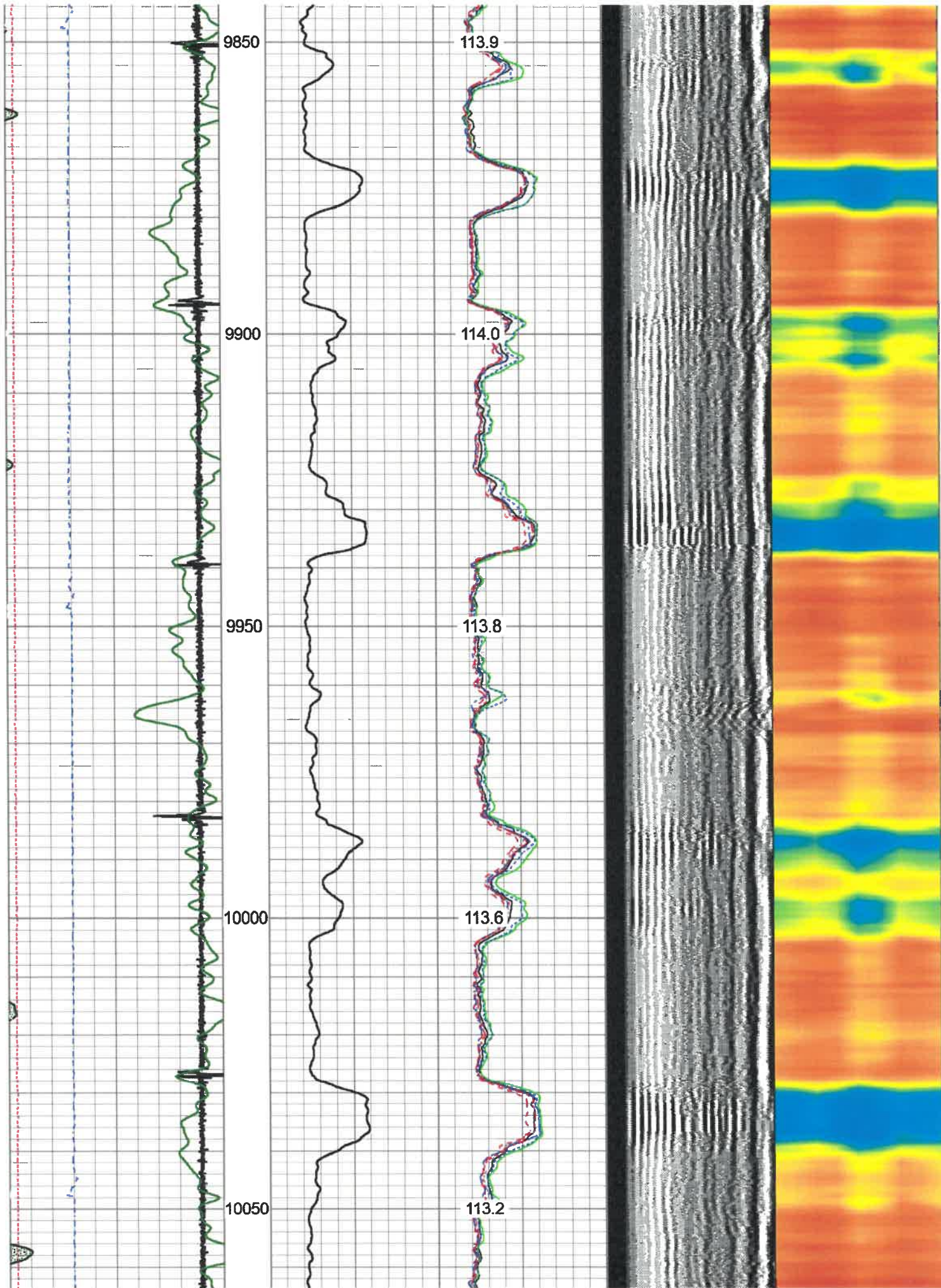


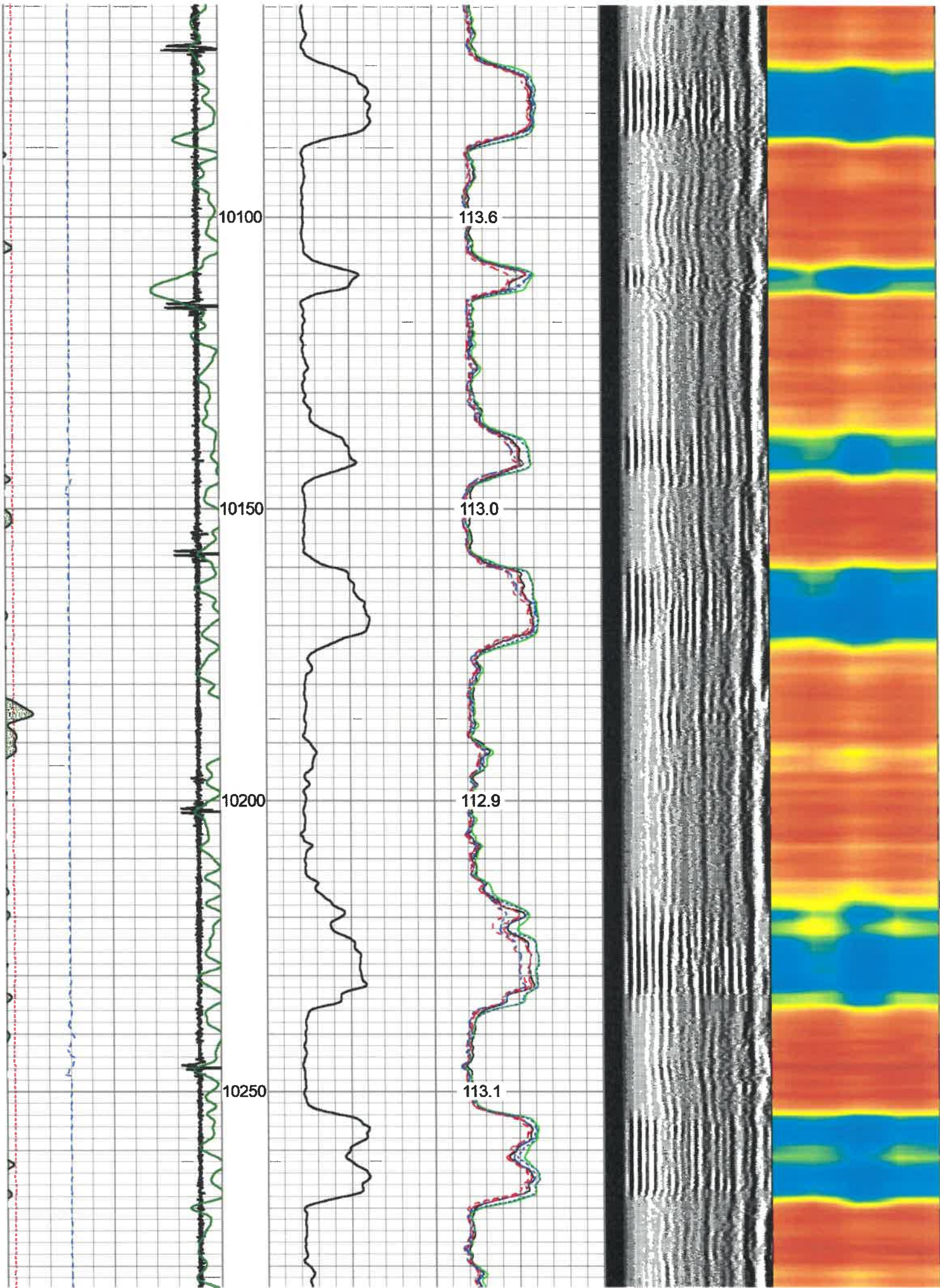


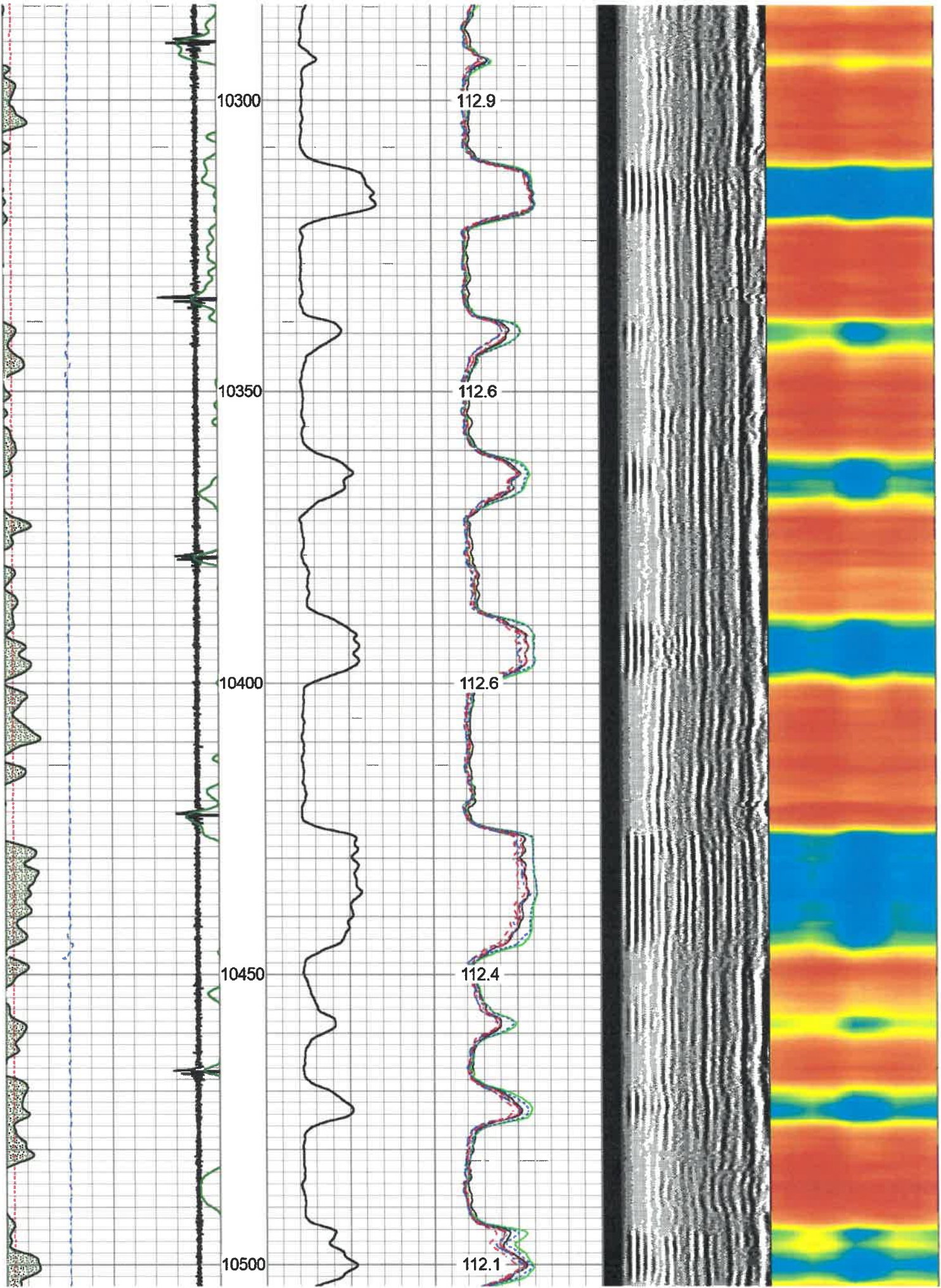


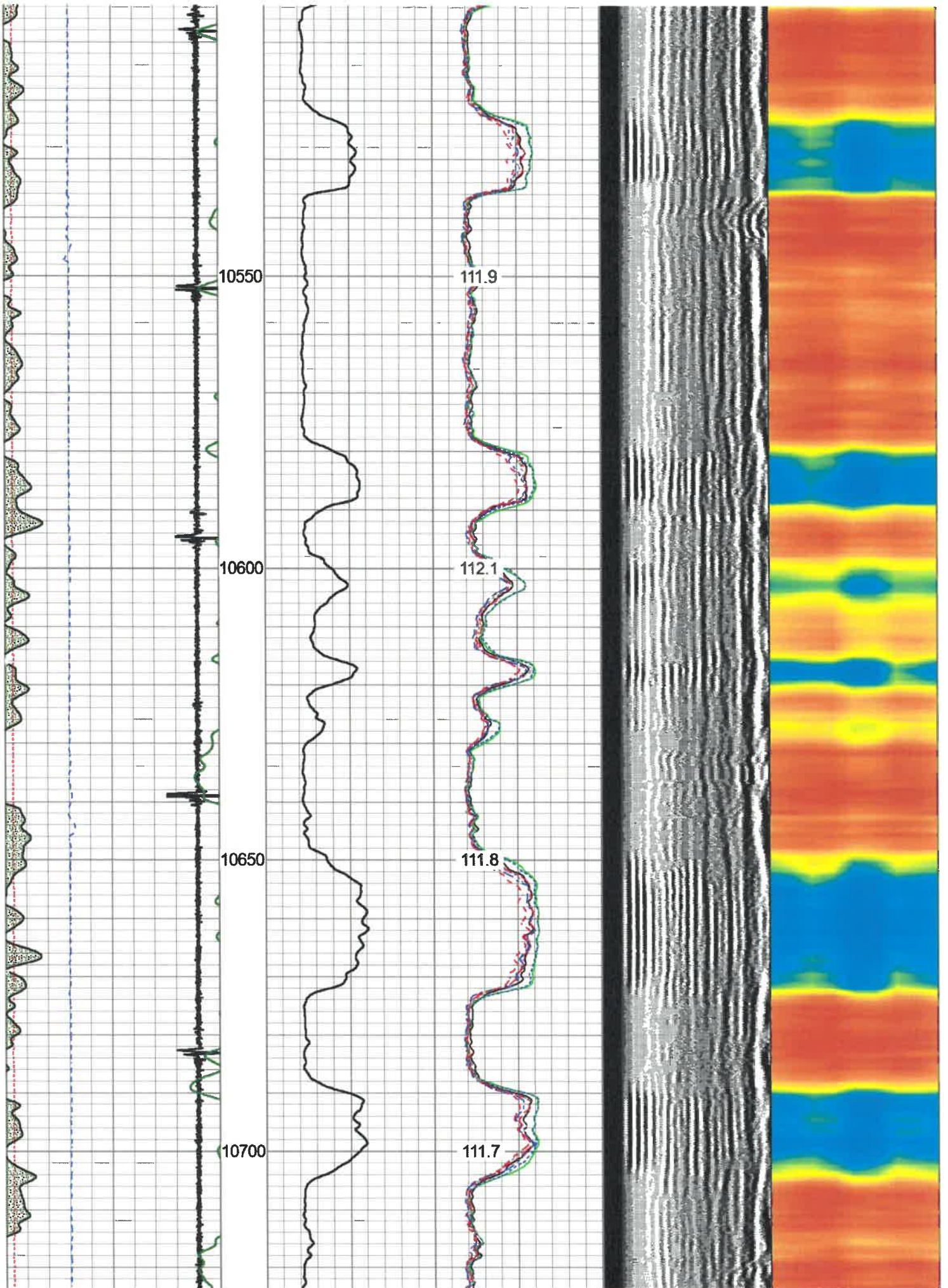


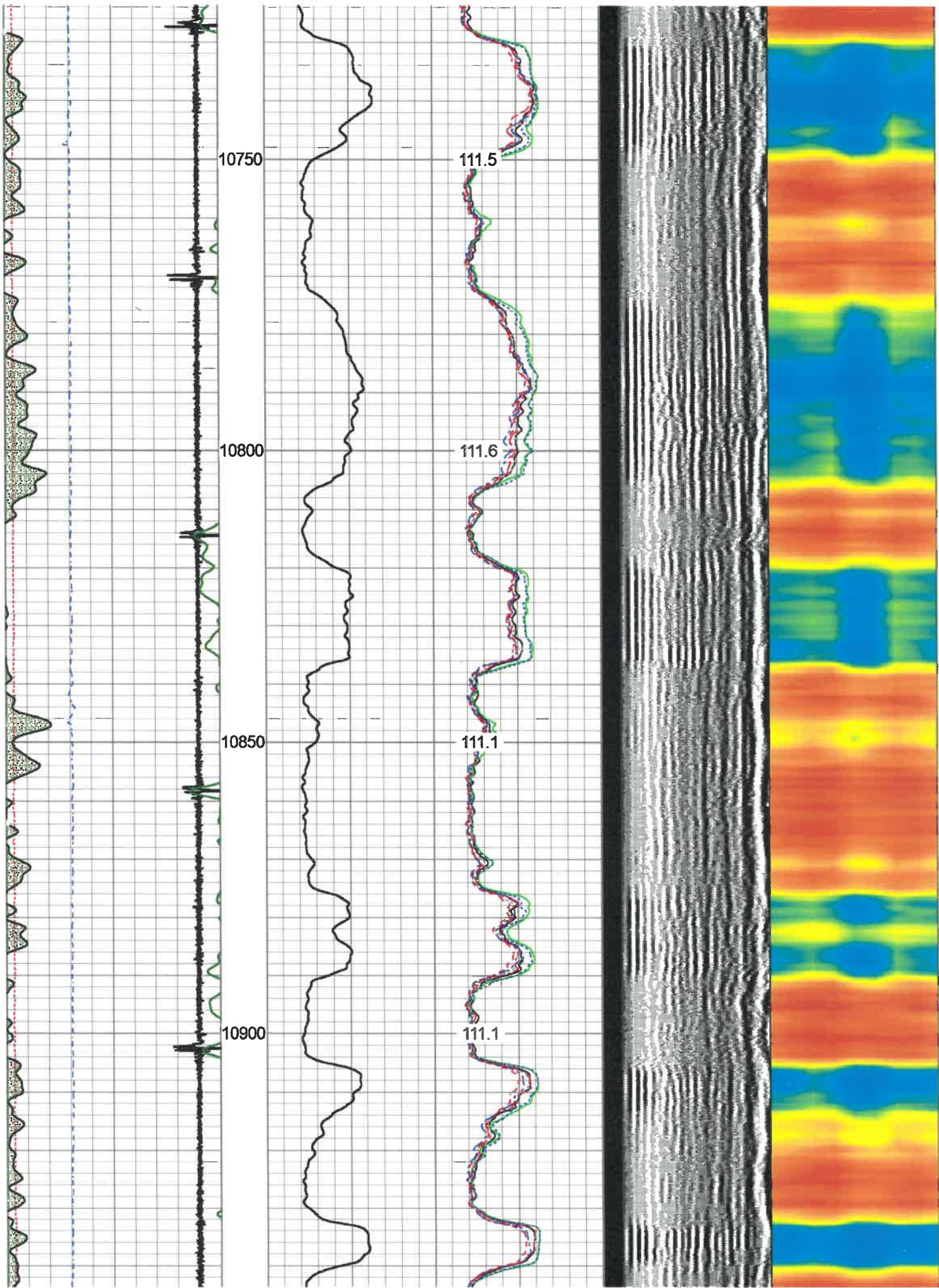


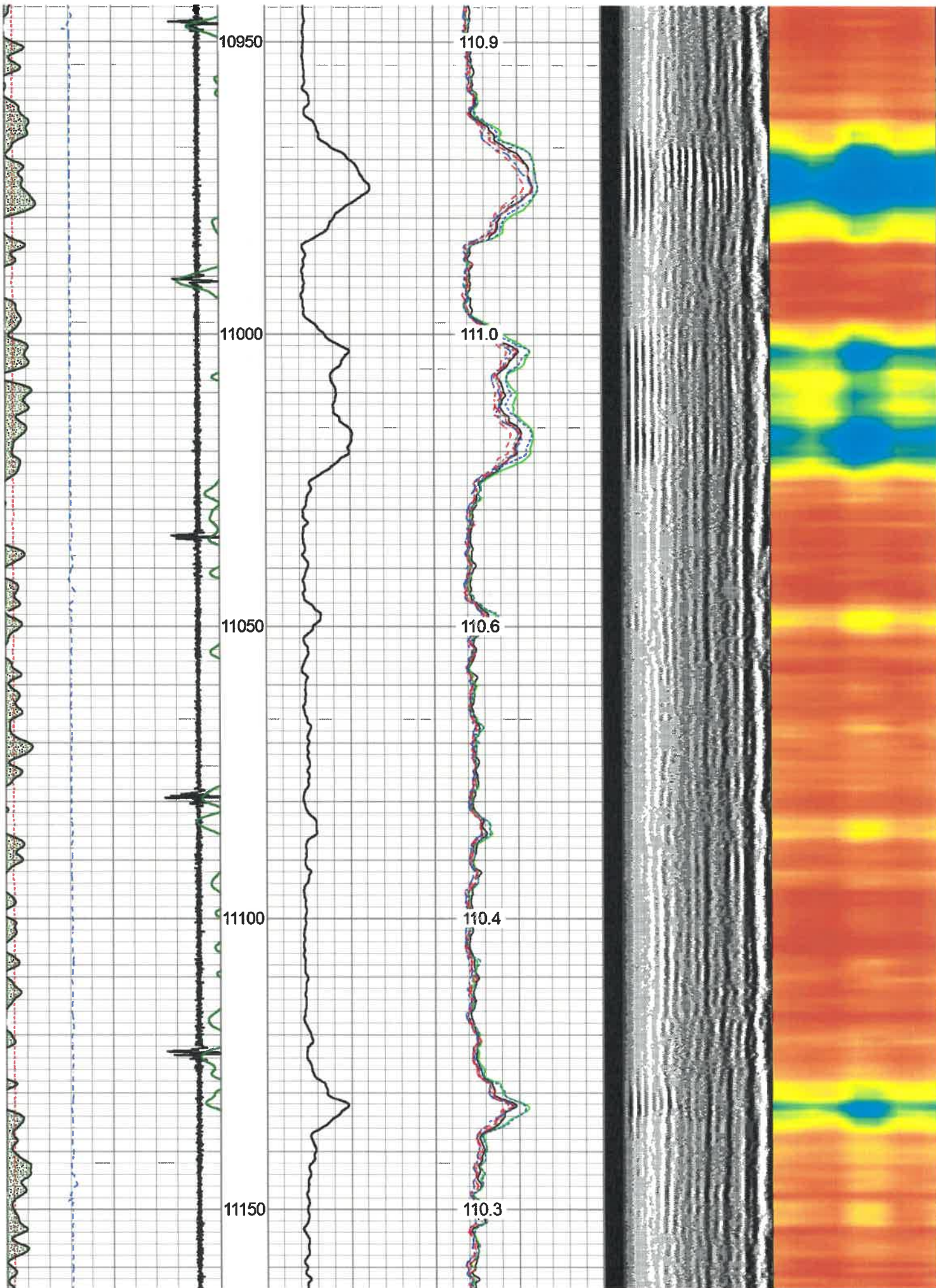


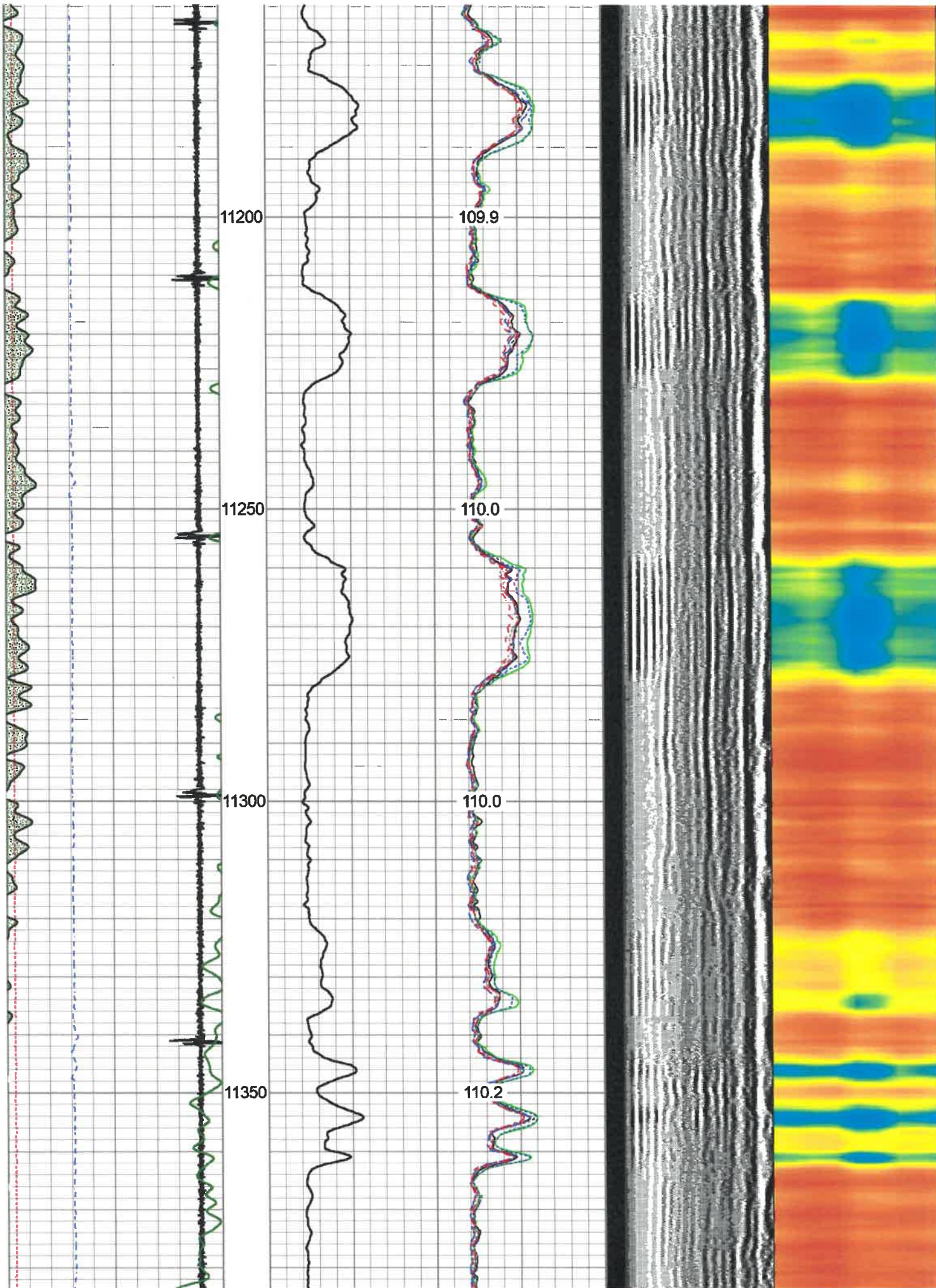


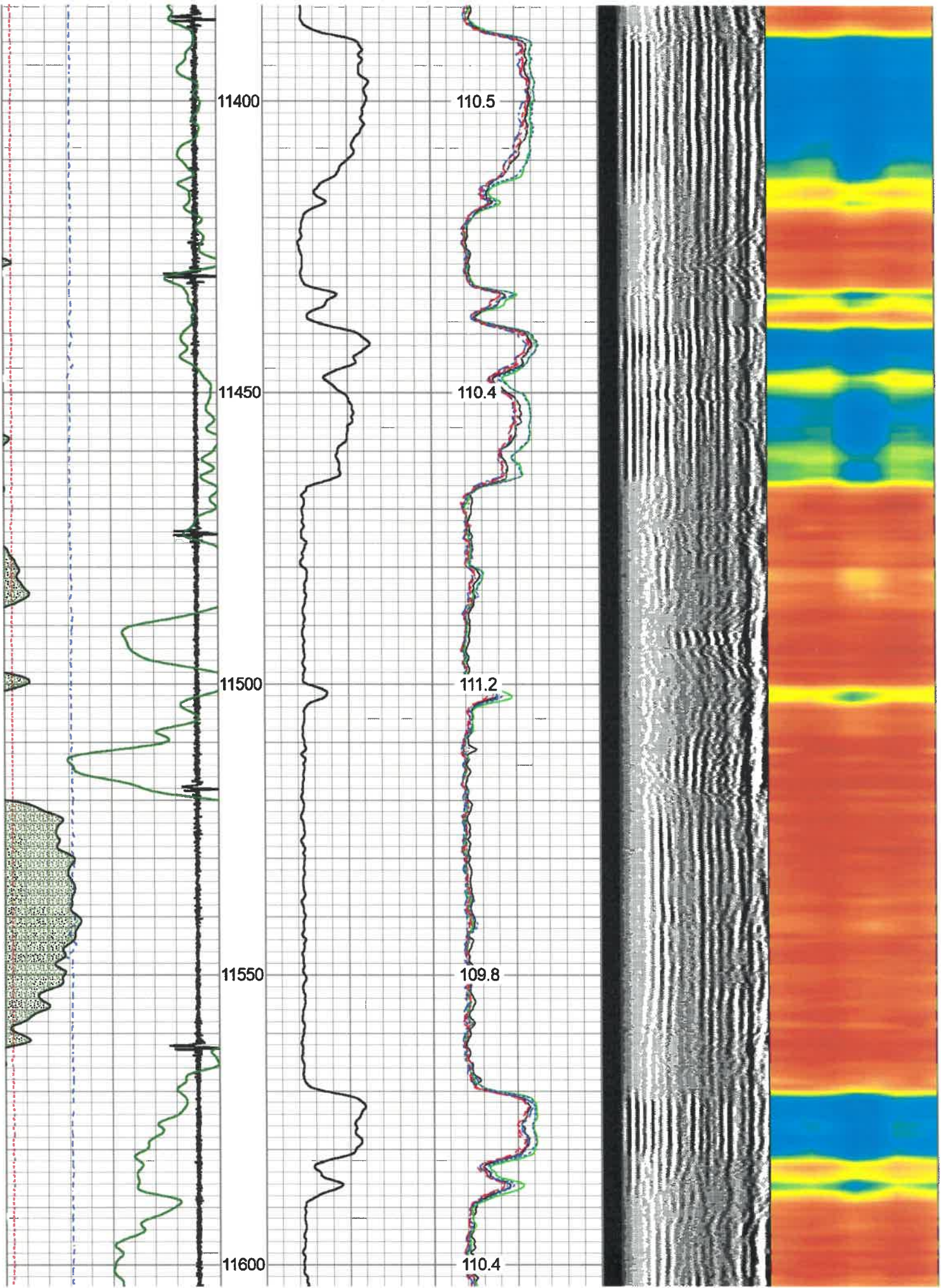


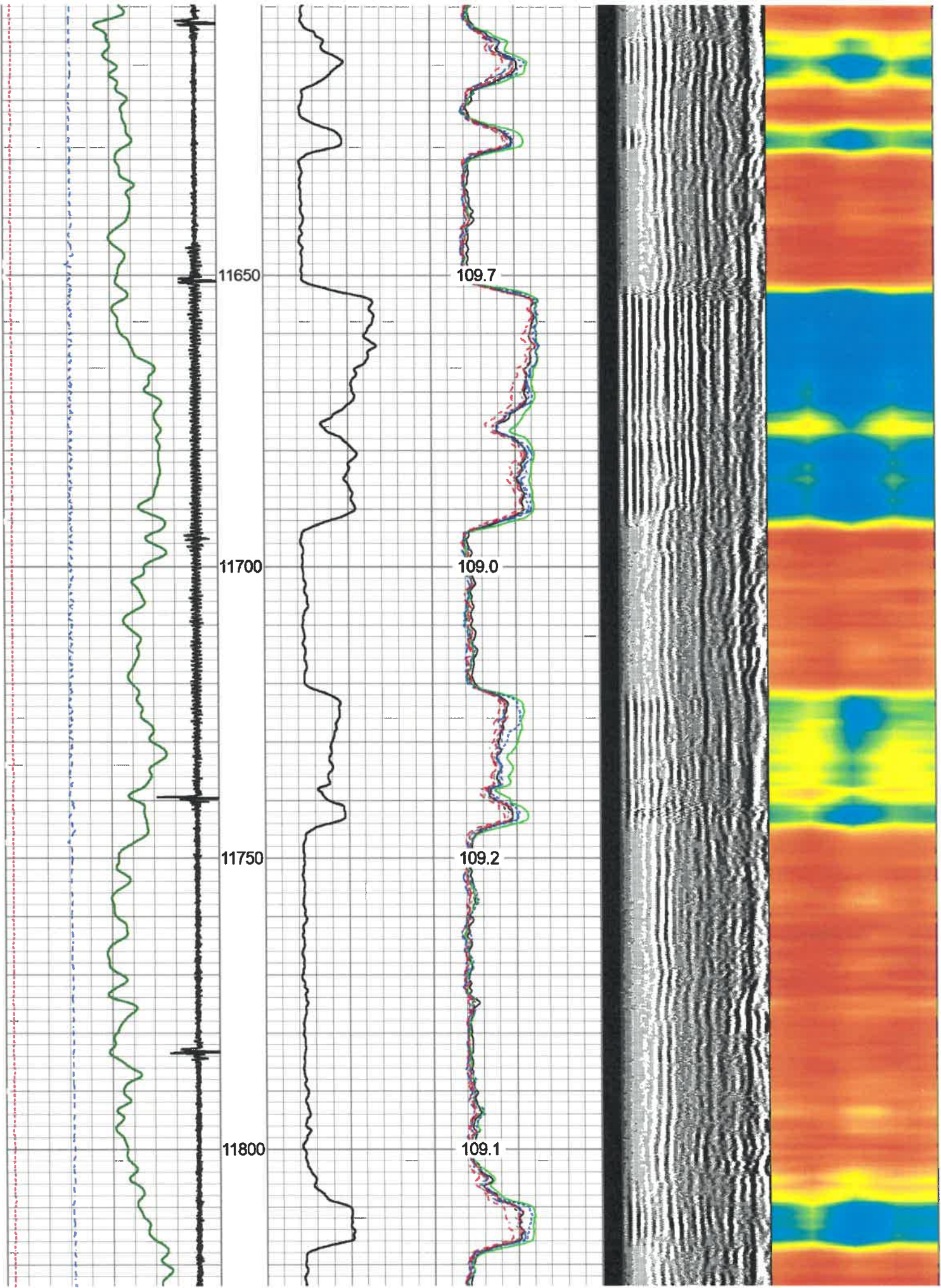


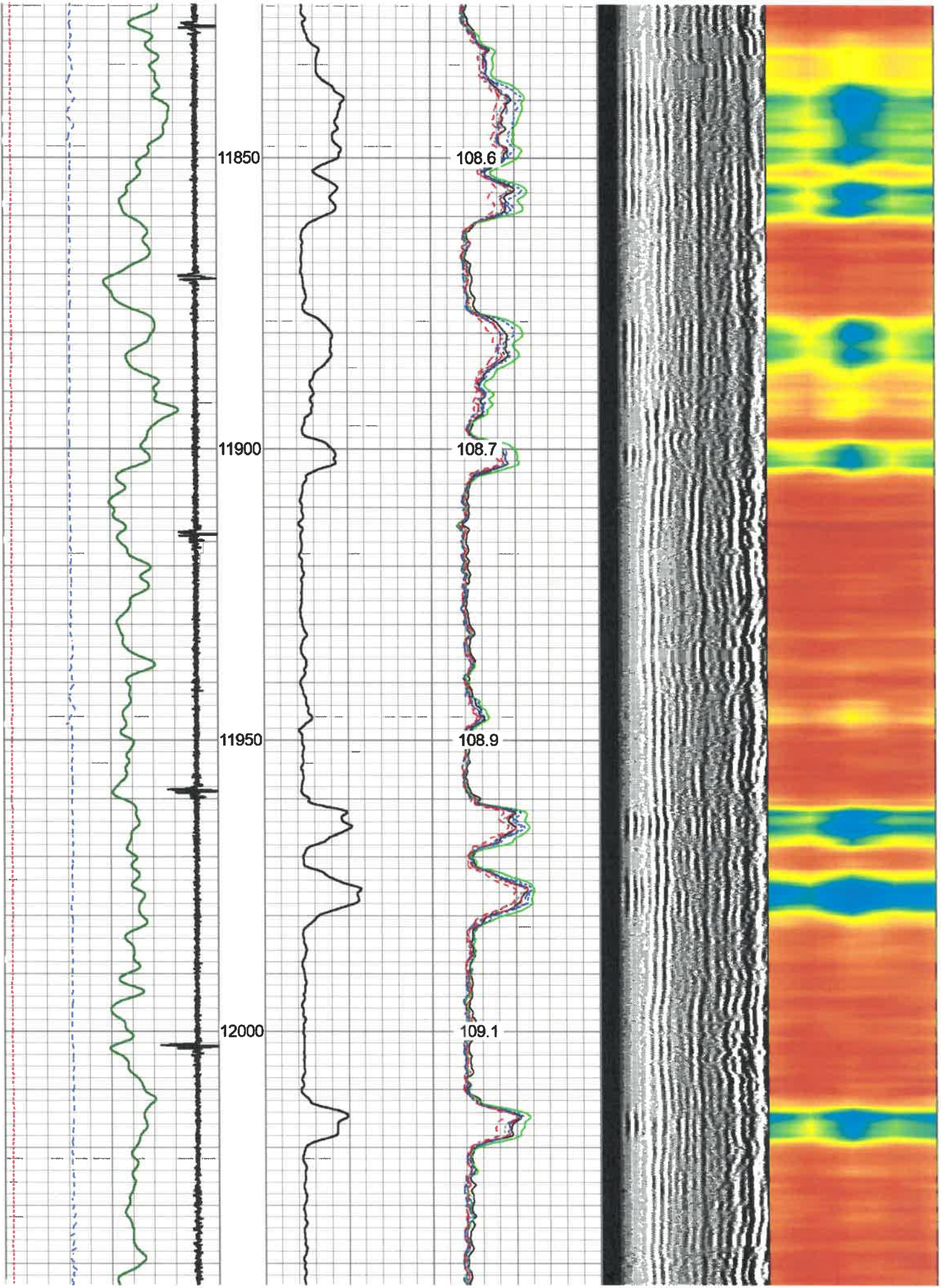


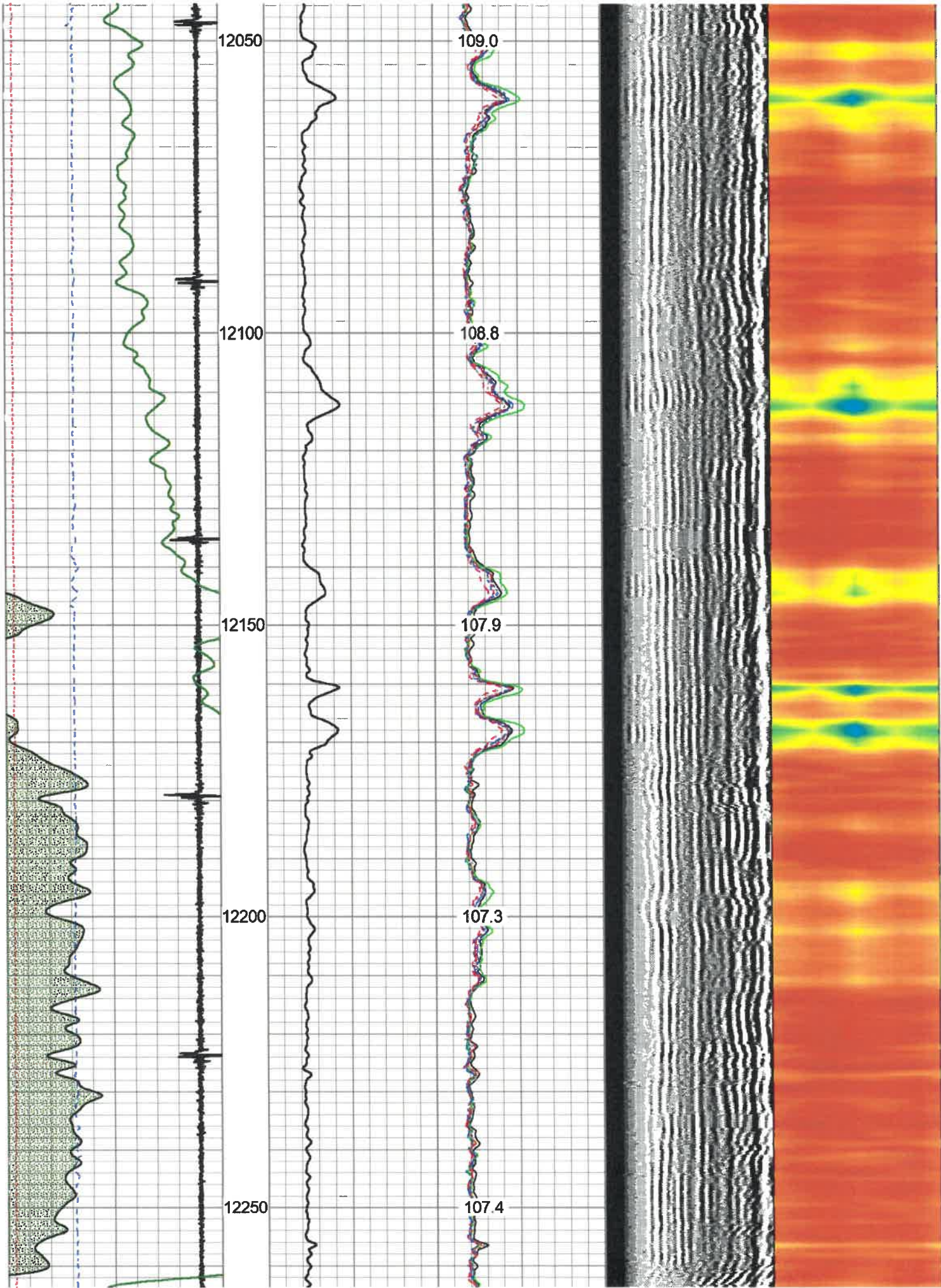


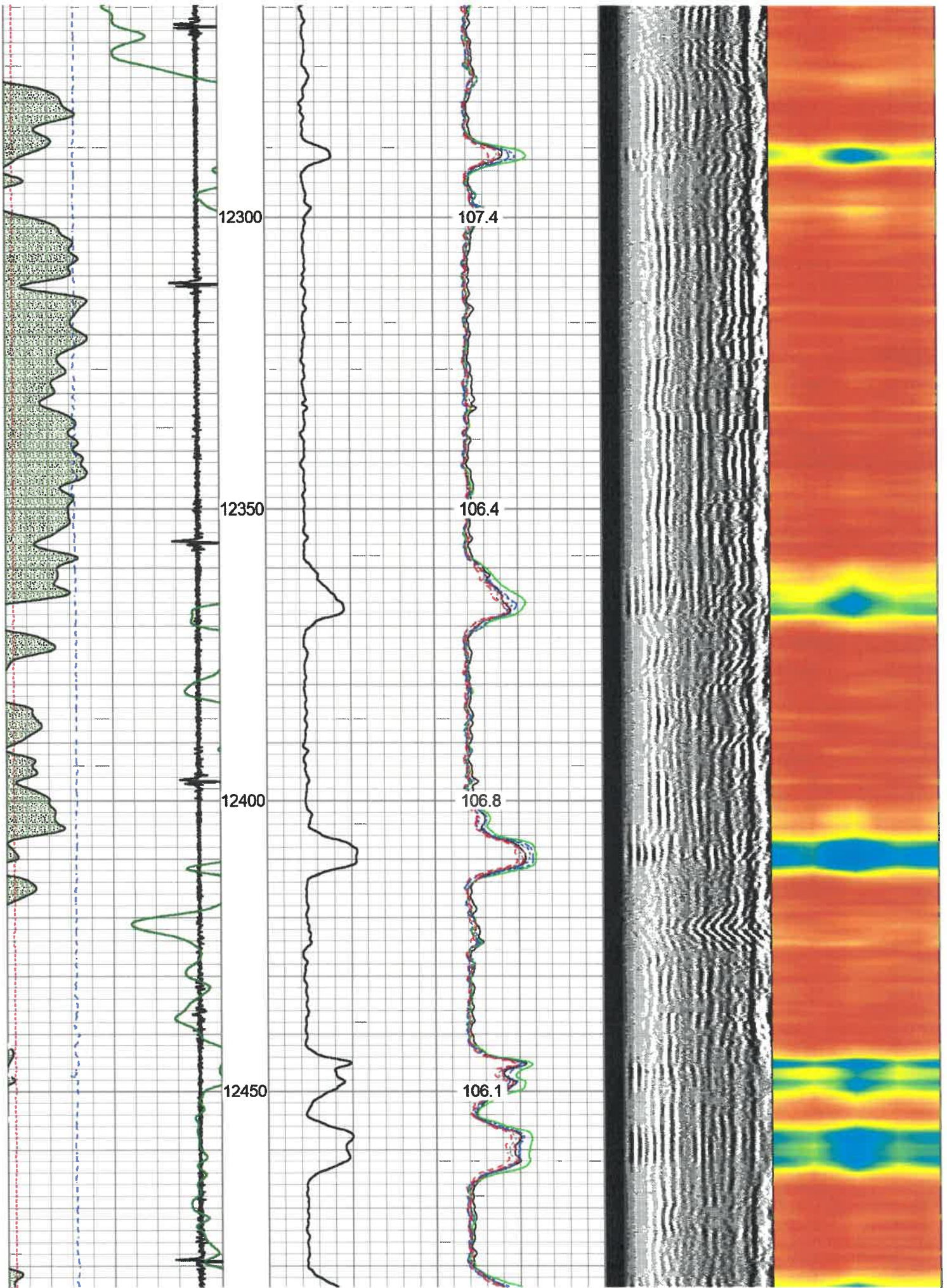


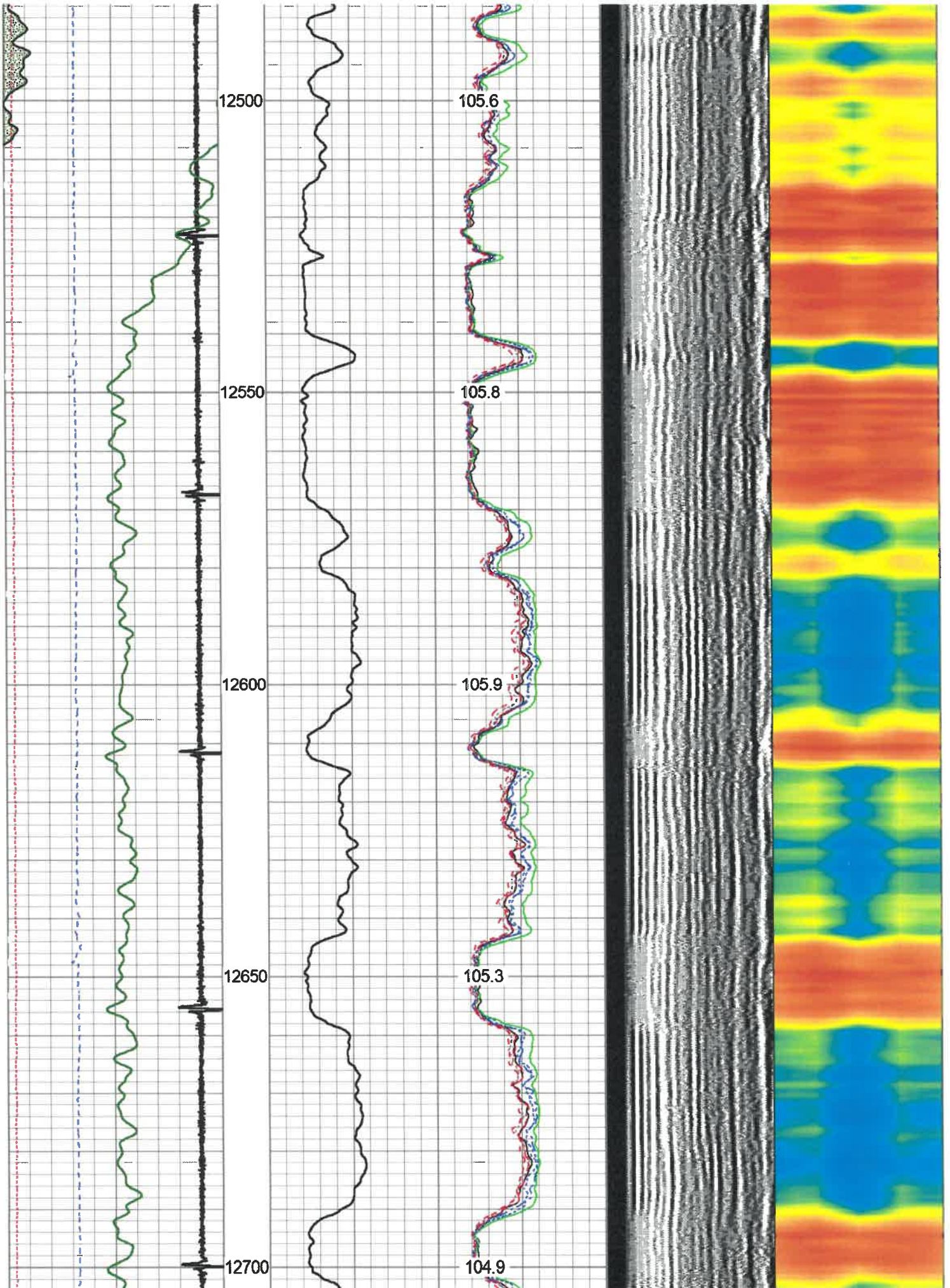


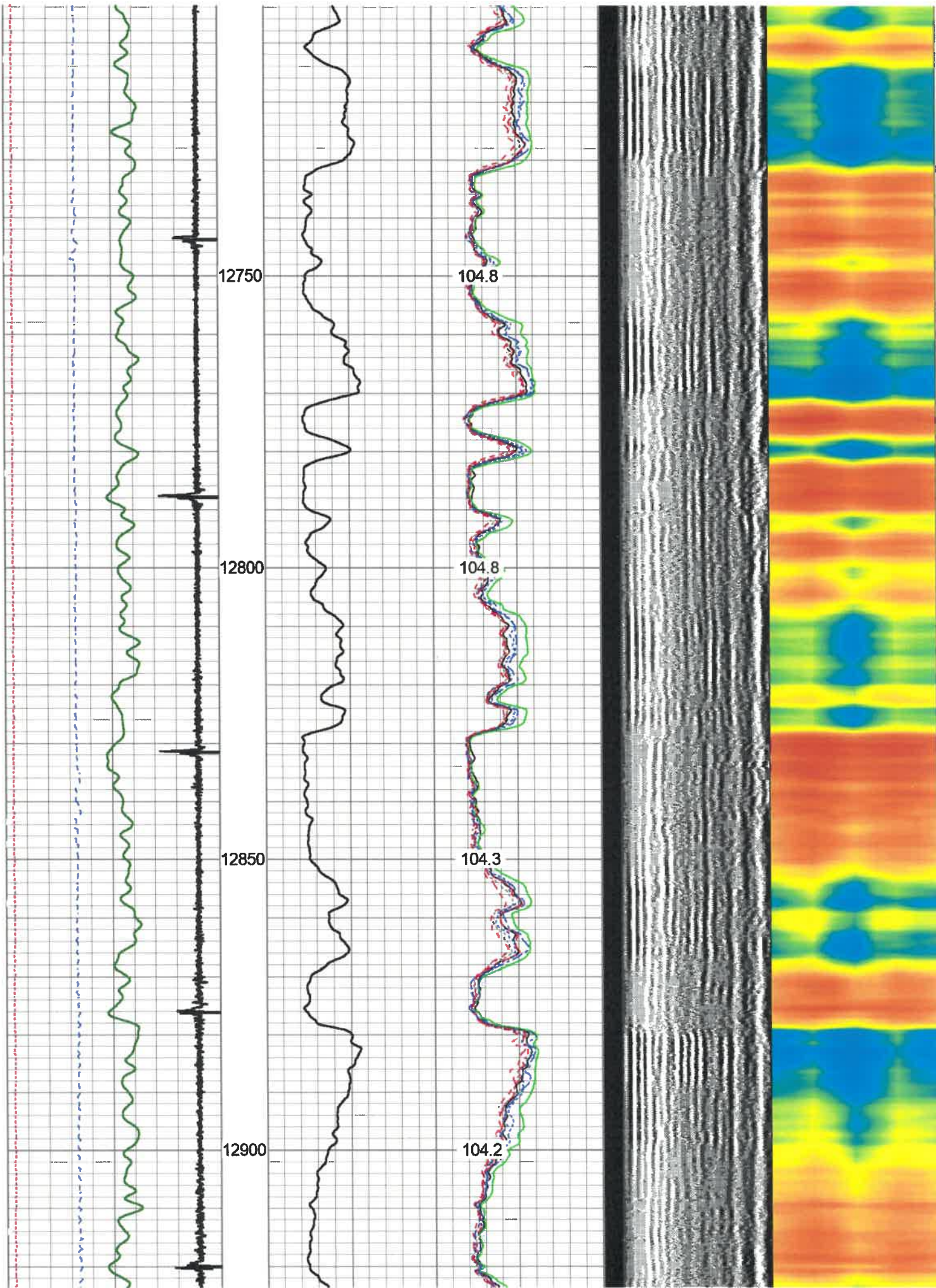


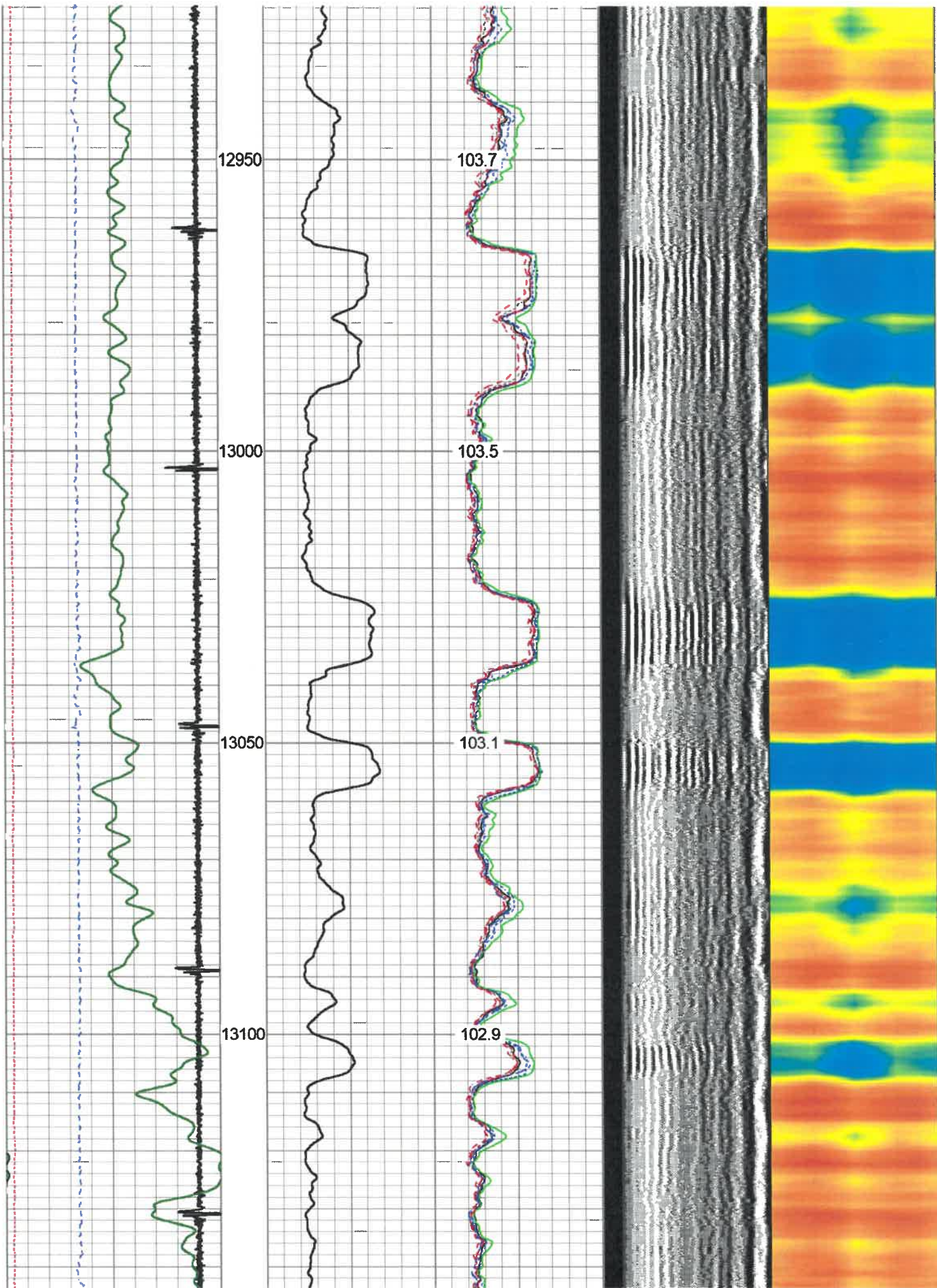


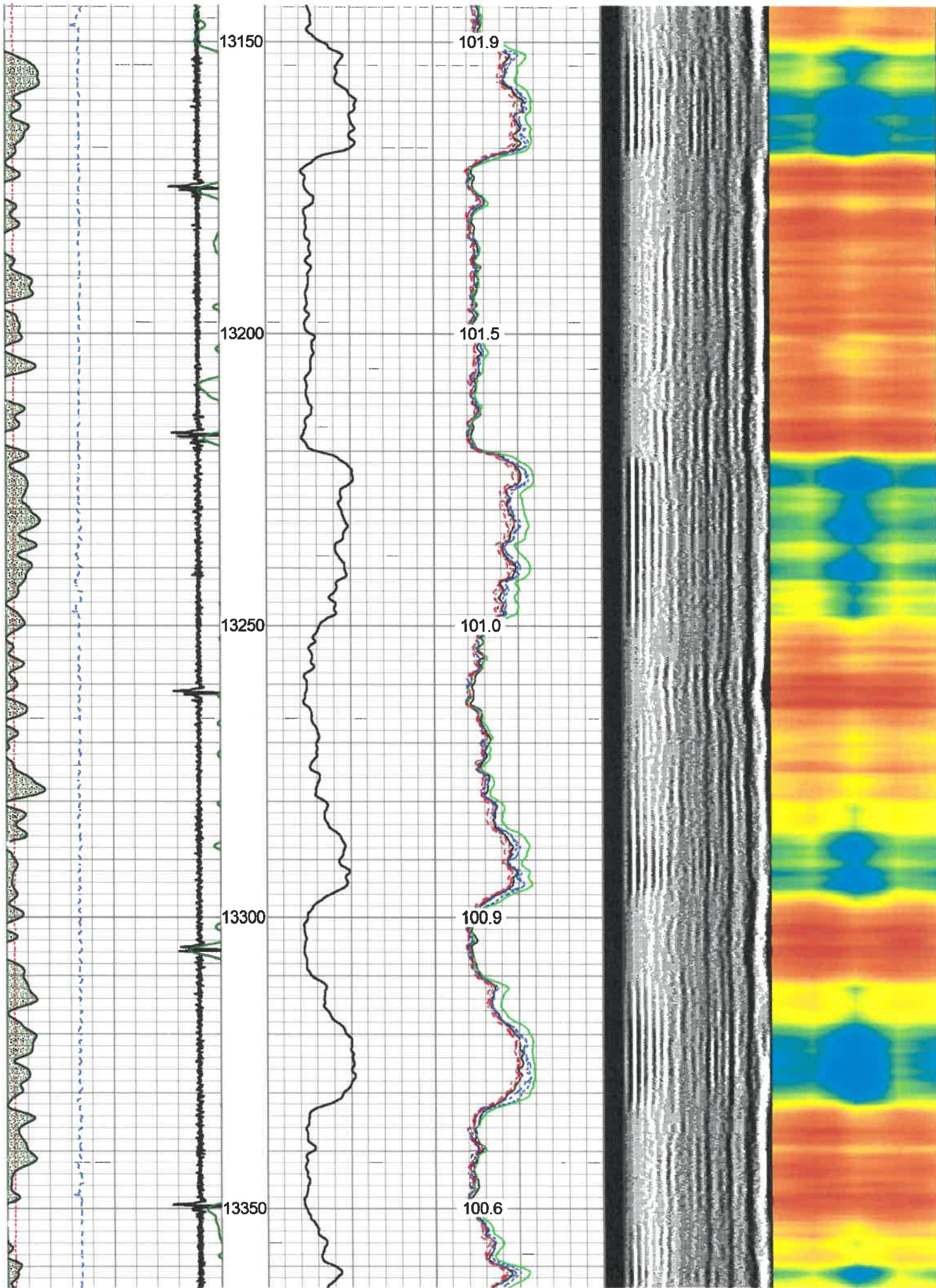


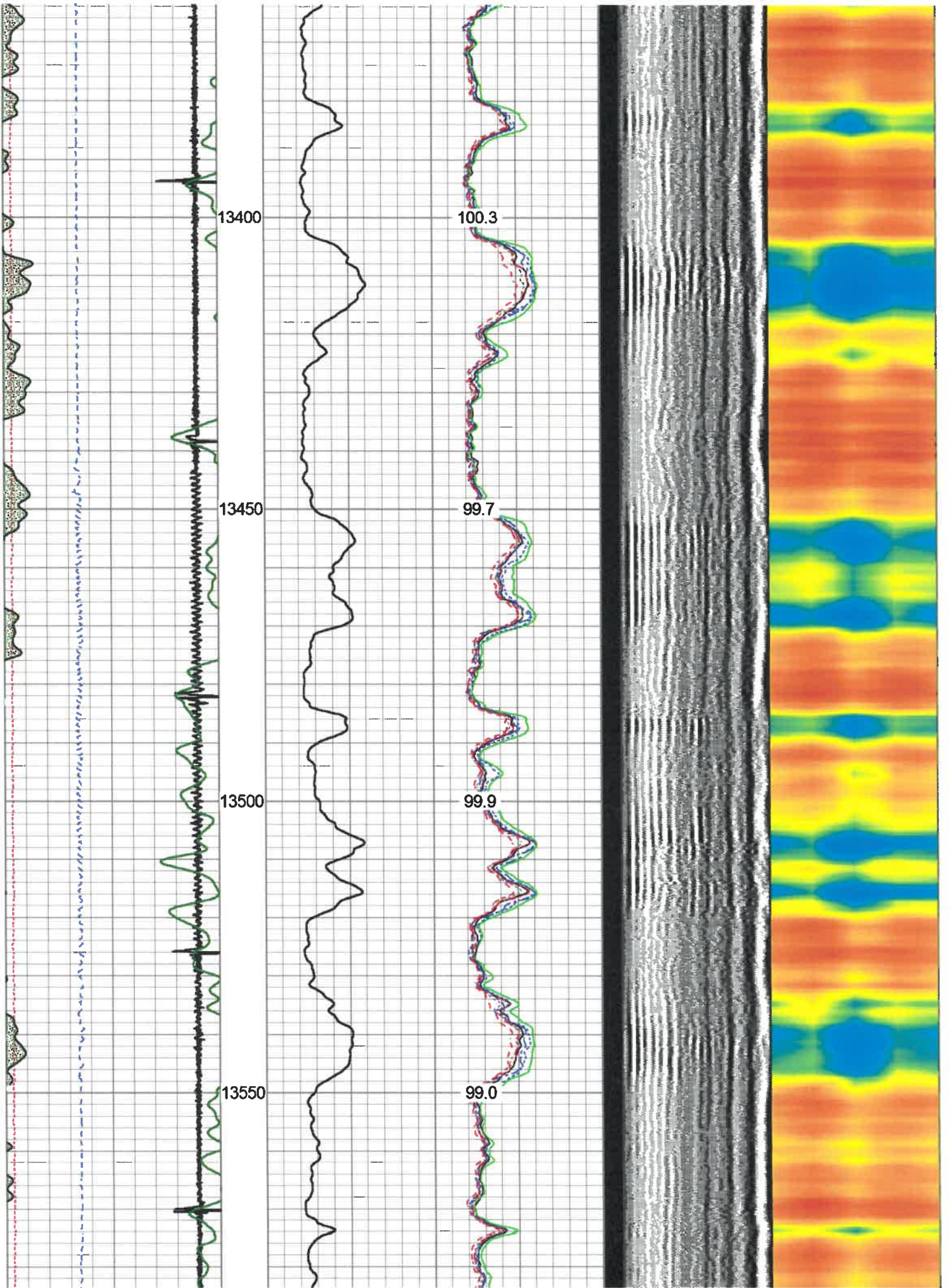


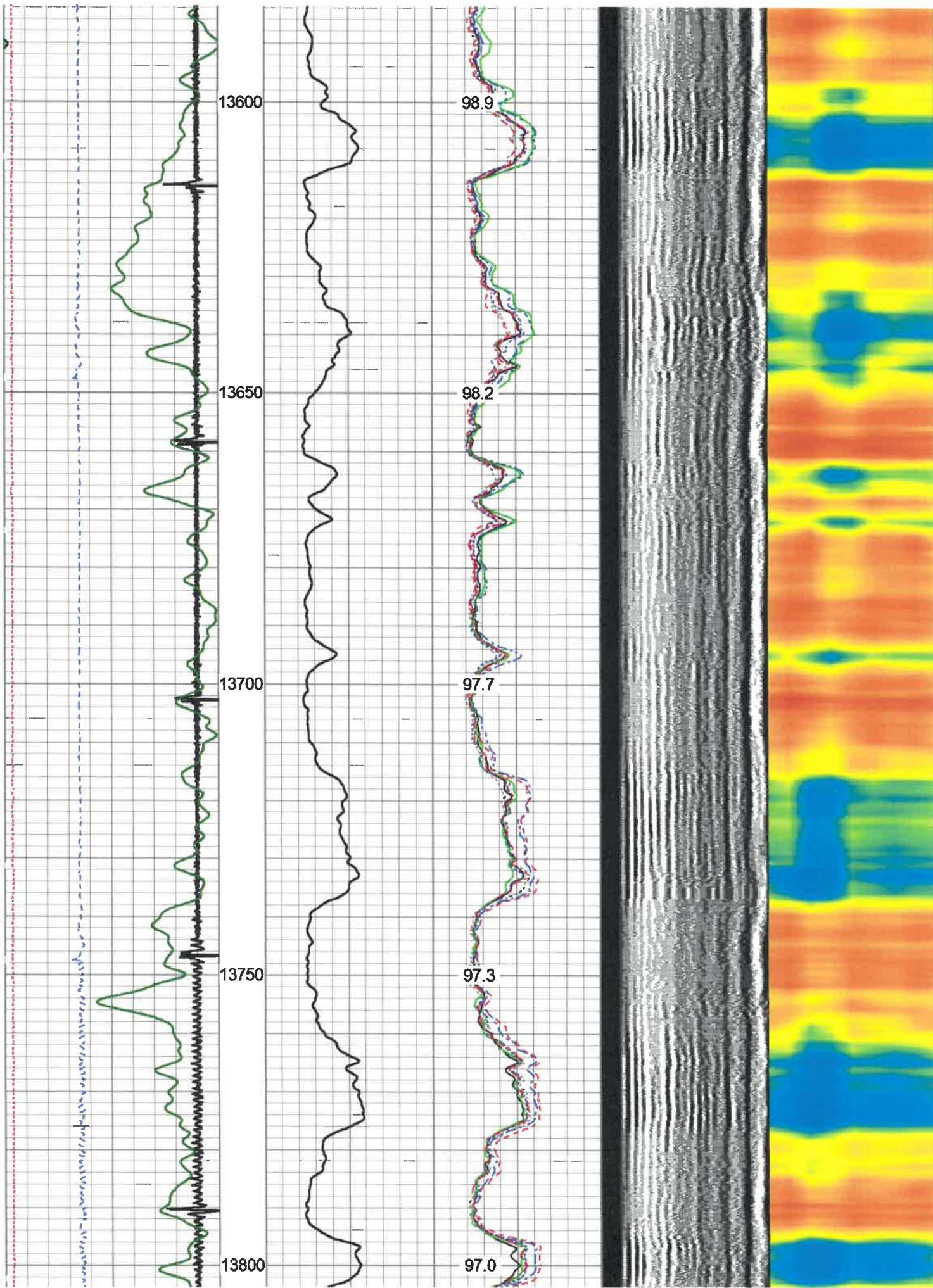


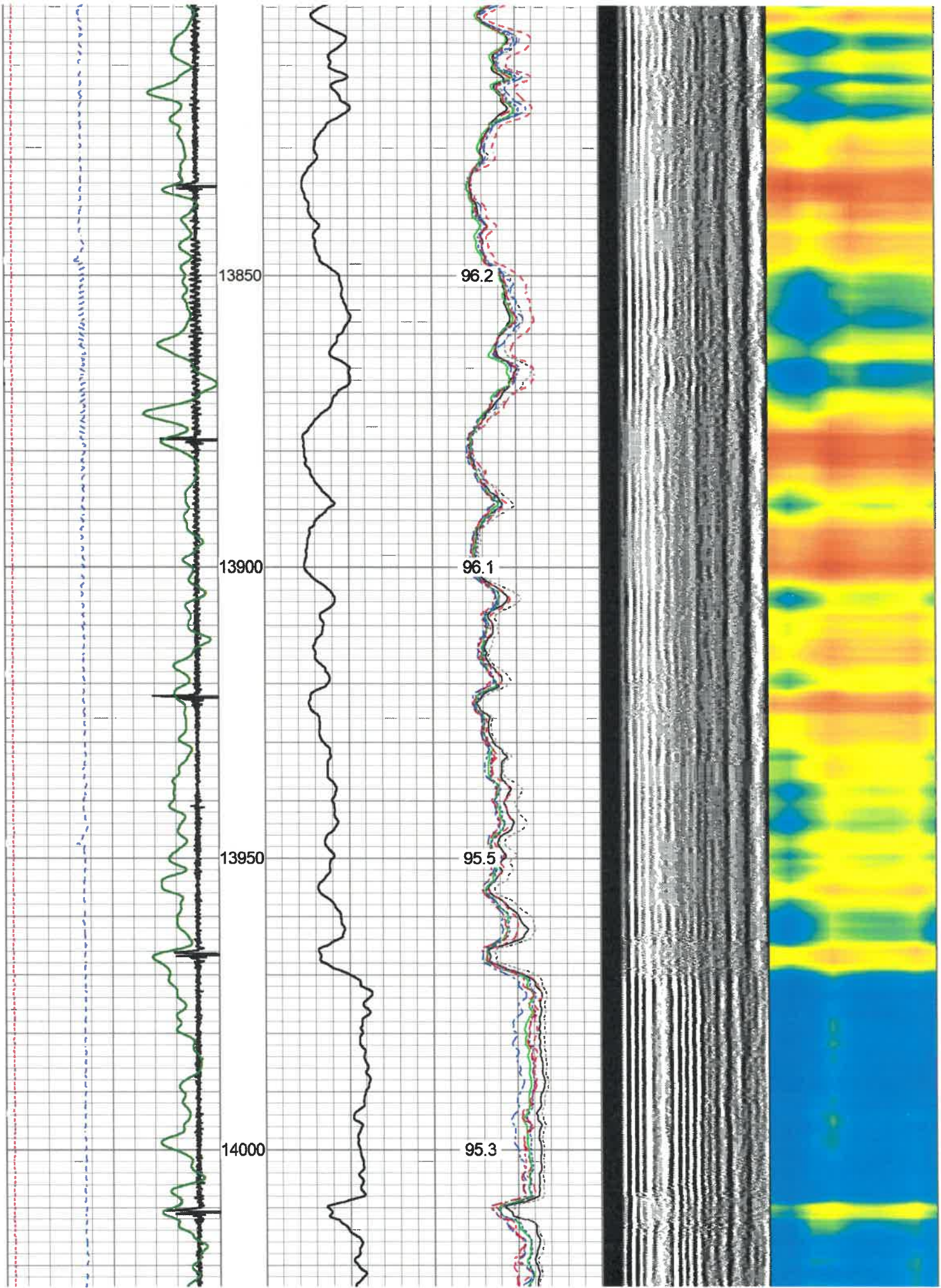


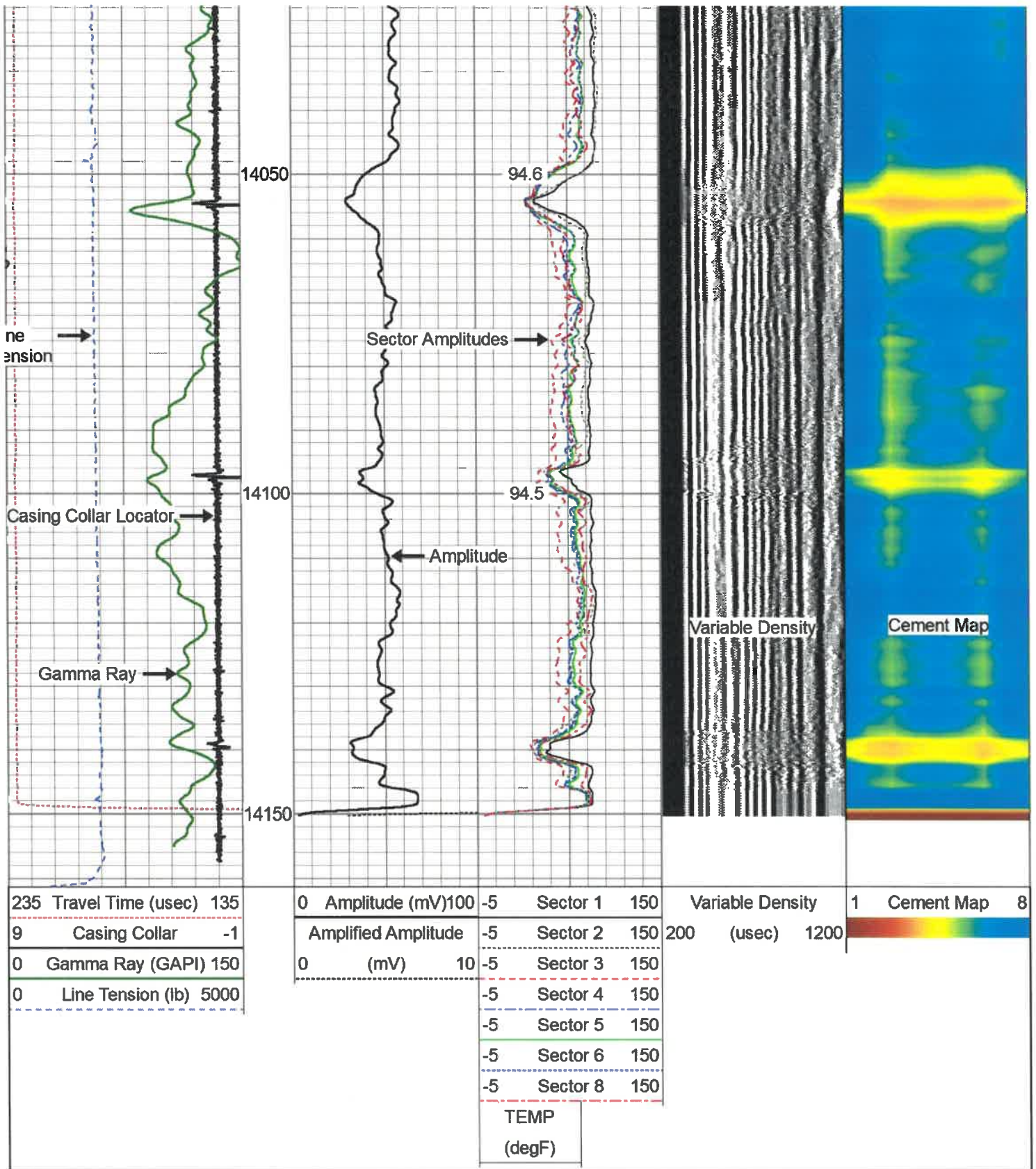












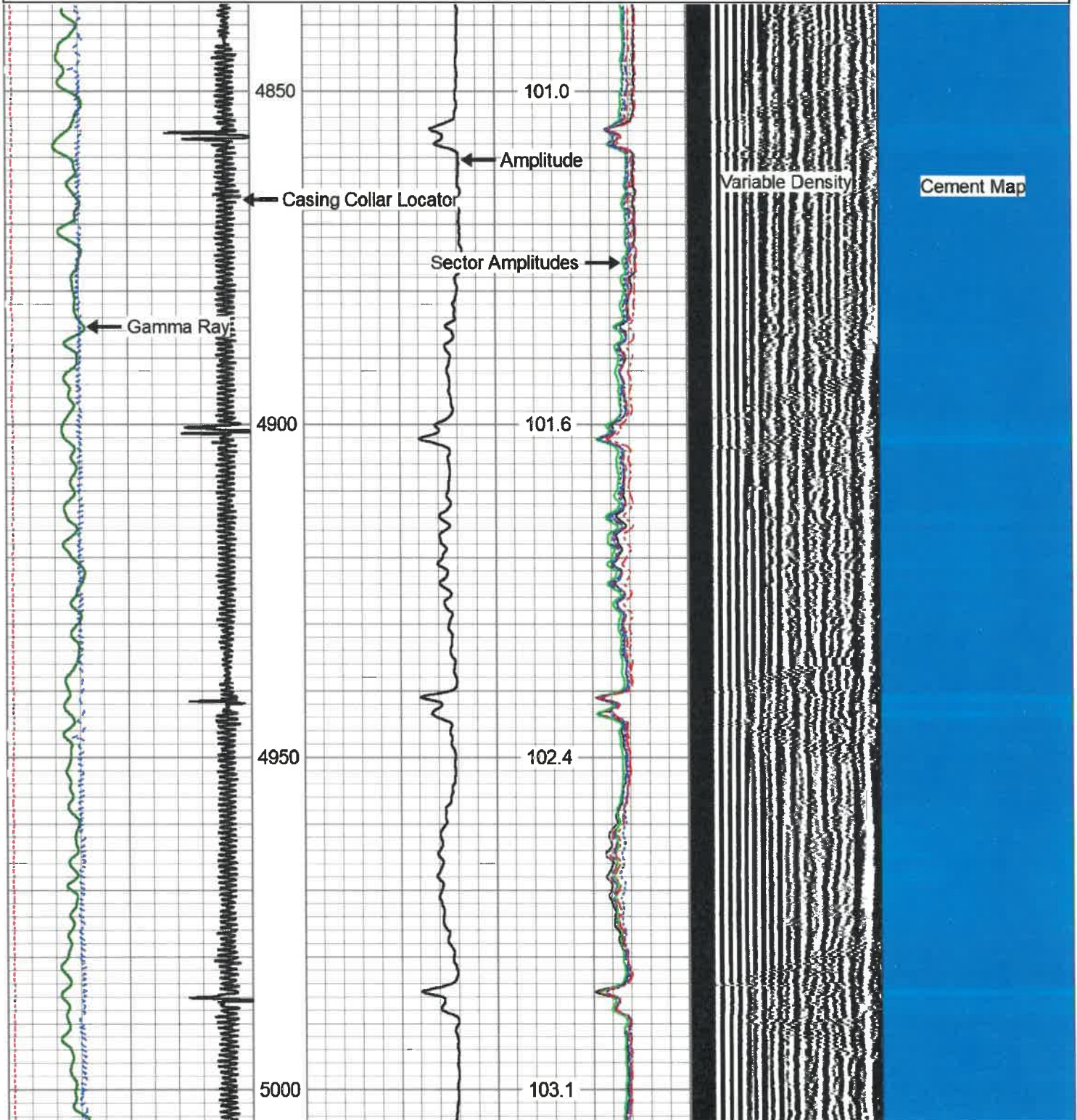
Repeat Pass

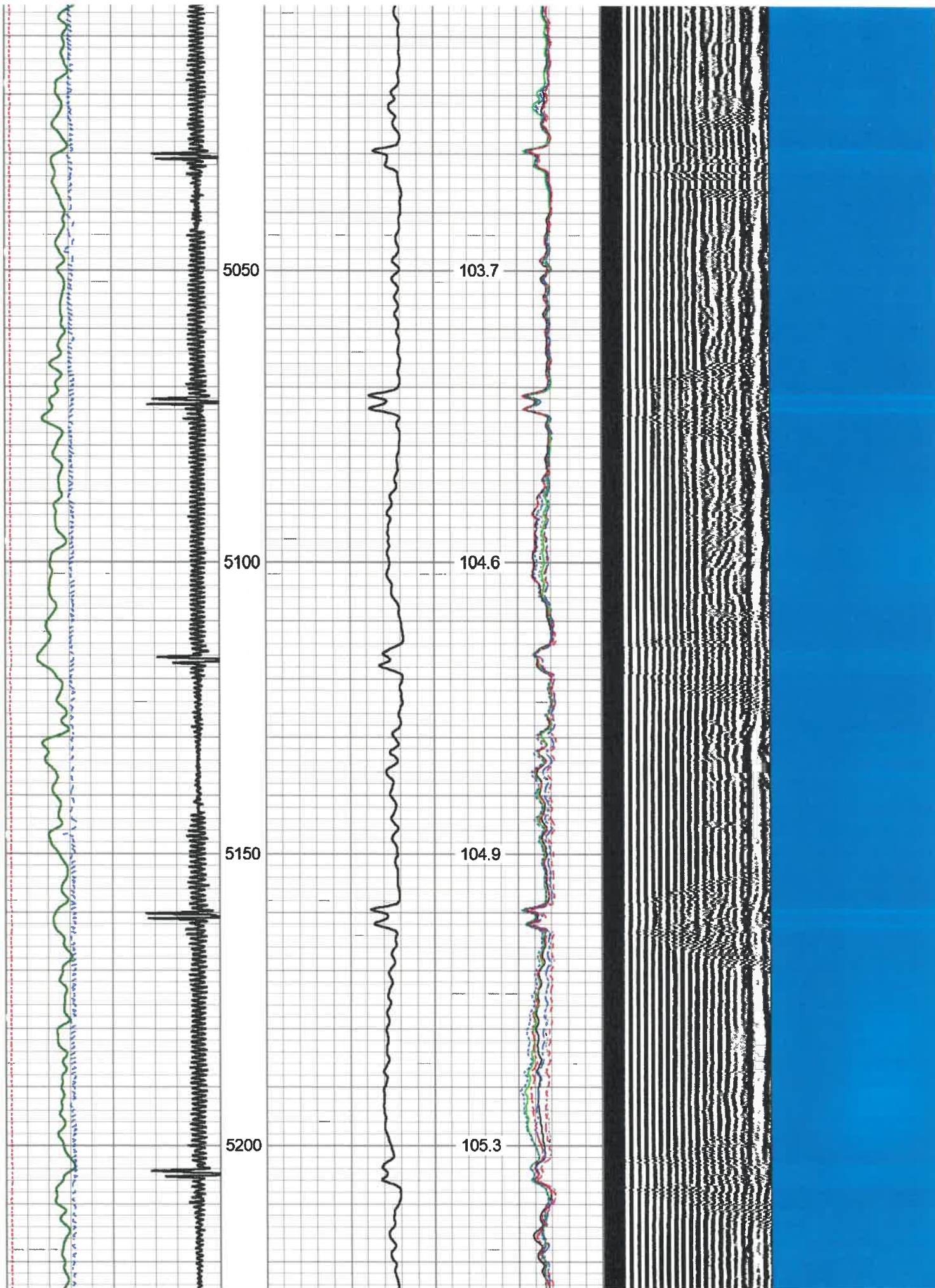
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 Presentation Format 9rcbl
 Dataset Creation Thu Jun 25 11:24:40 2020

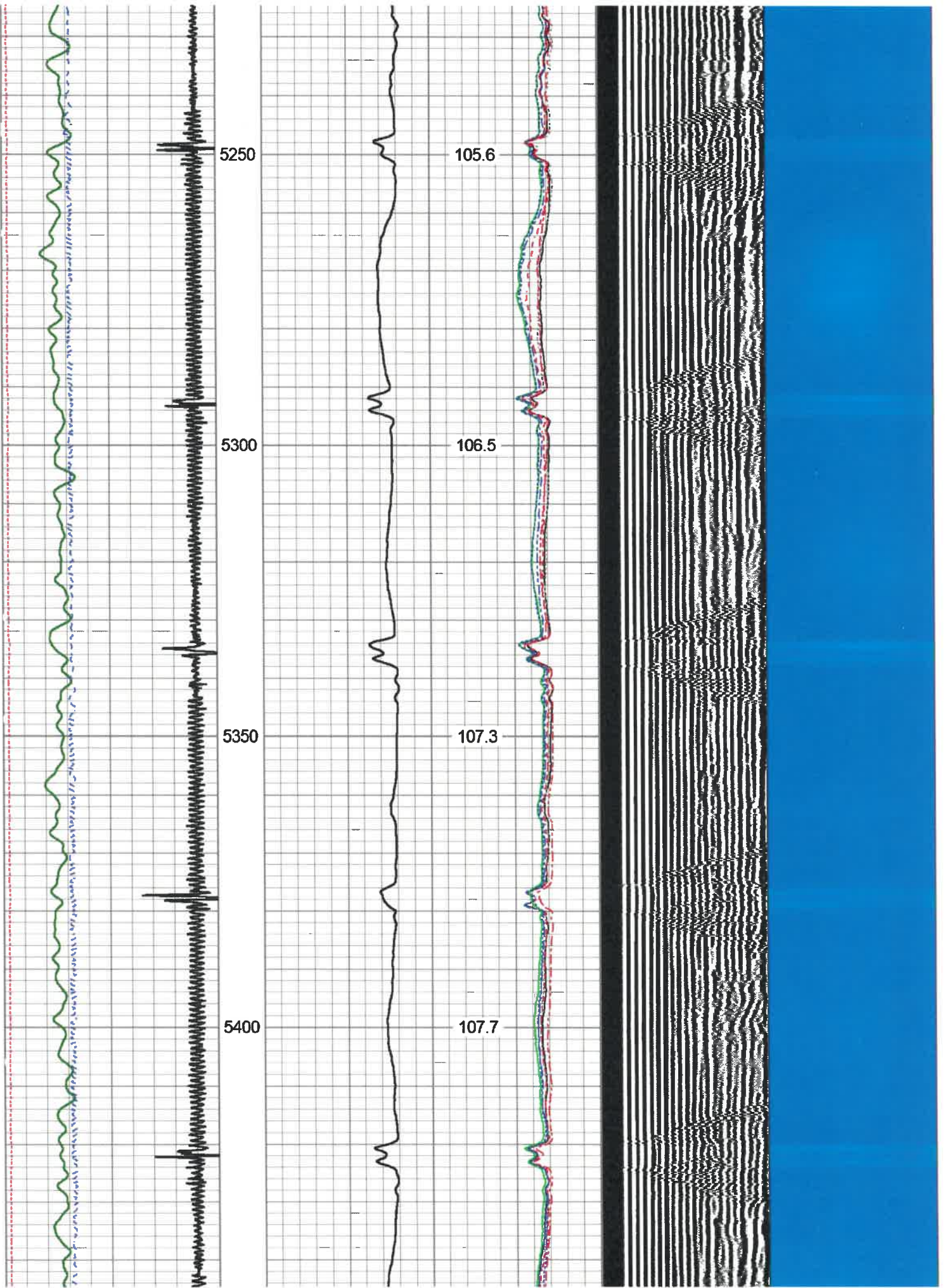
235	Travel Time (usec)	135
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

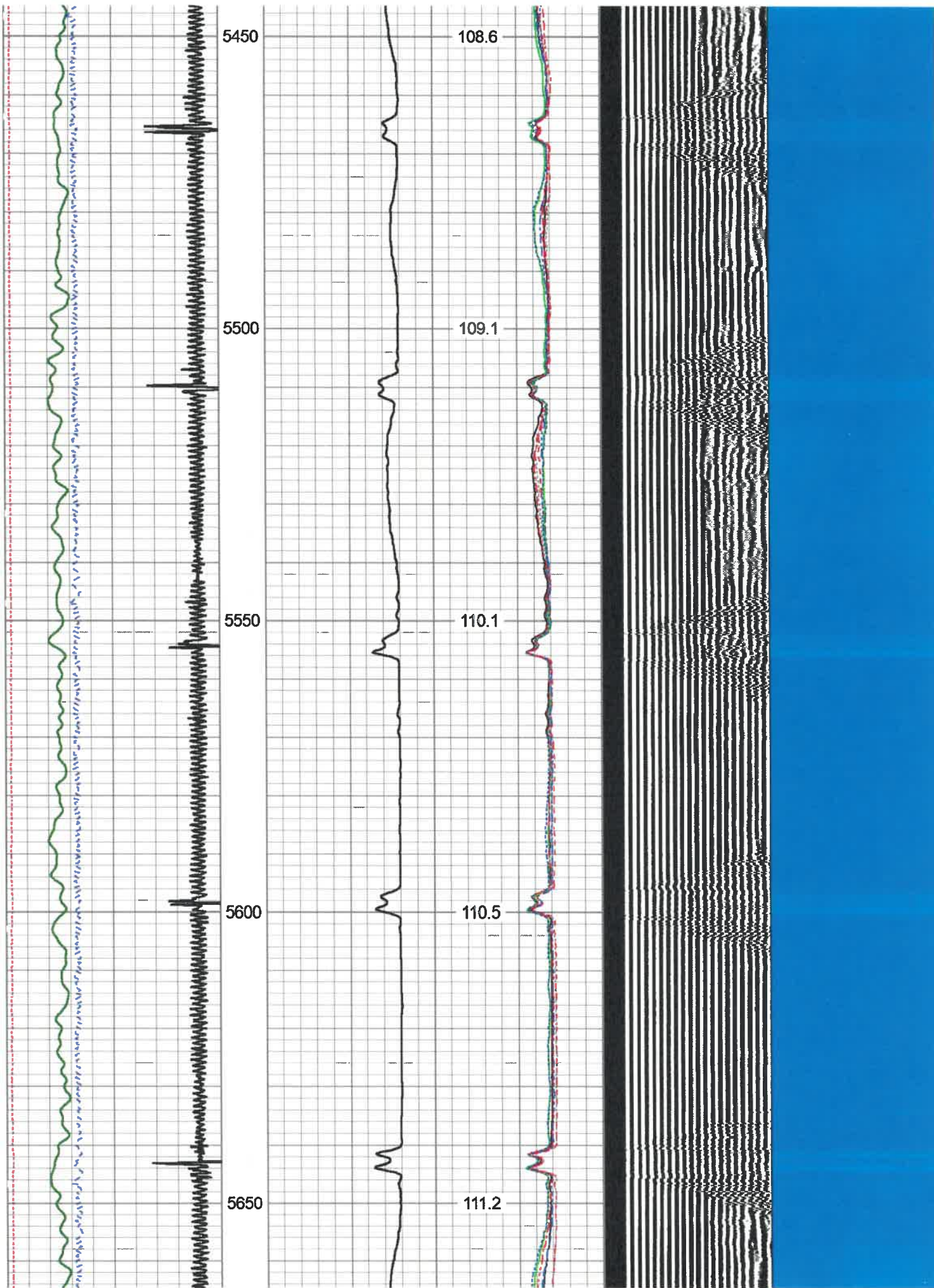
0	Amplitude (mV)	100	-5	Sector 1	150
	Amplified Amplitude		-5	Sector 2	150
0	(mV)	10	-5	Sector 3	150
			-5	Sector 4	150
			-5	Sector 5	150
			-5	Sector 6	150
			-5	Sector 8	150
TEMP (degF)					

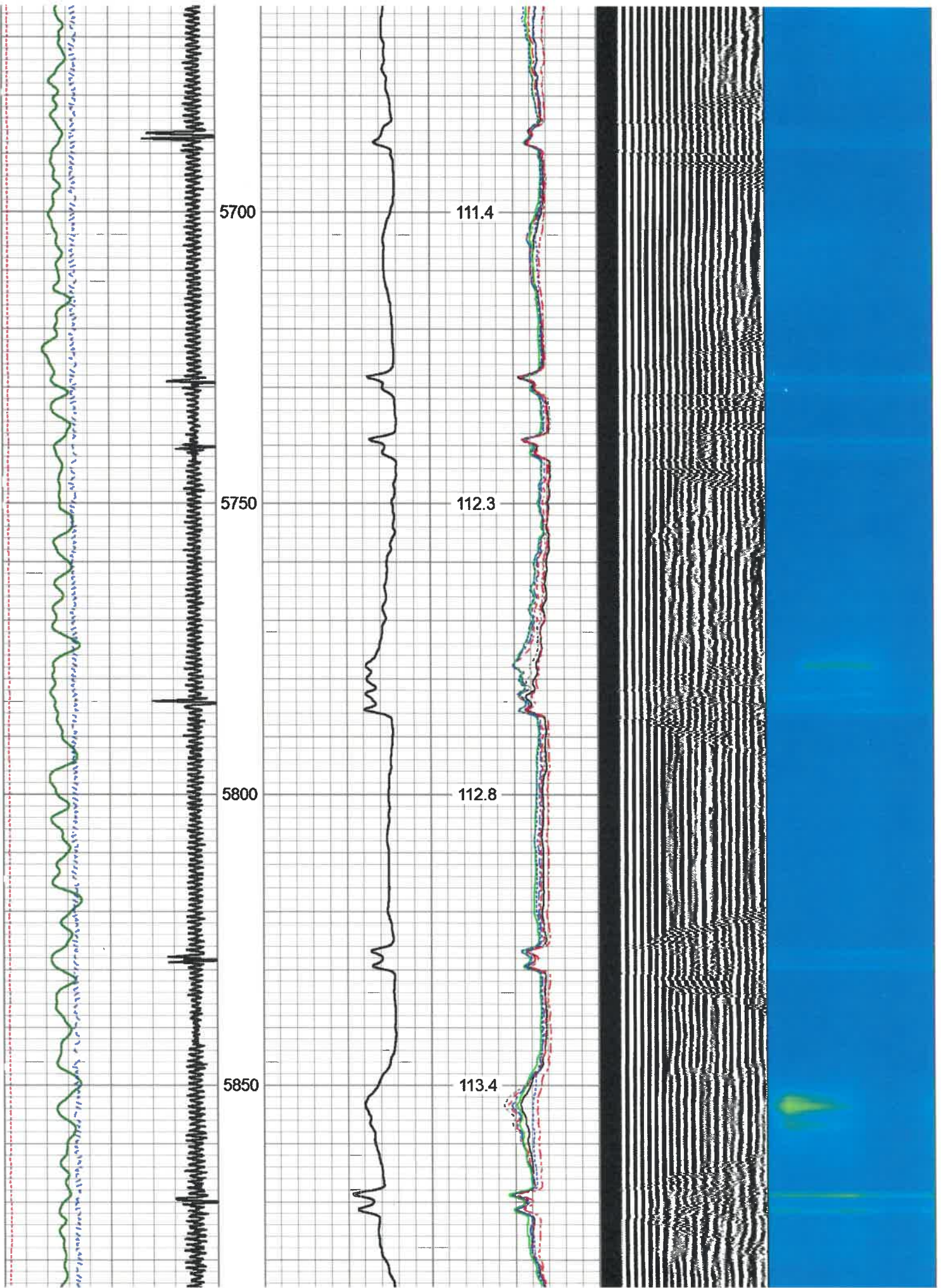
Variable Density	1	Cement Map	8
200	(usec)	1200	

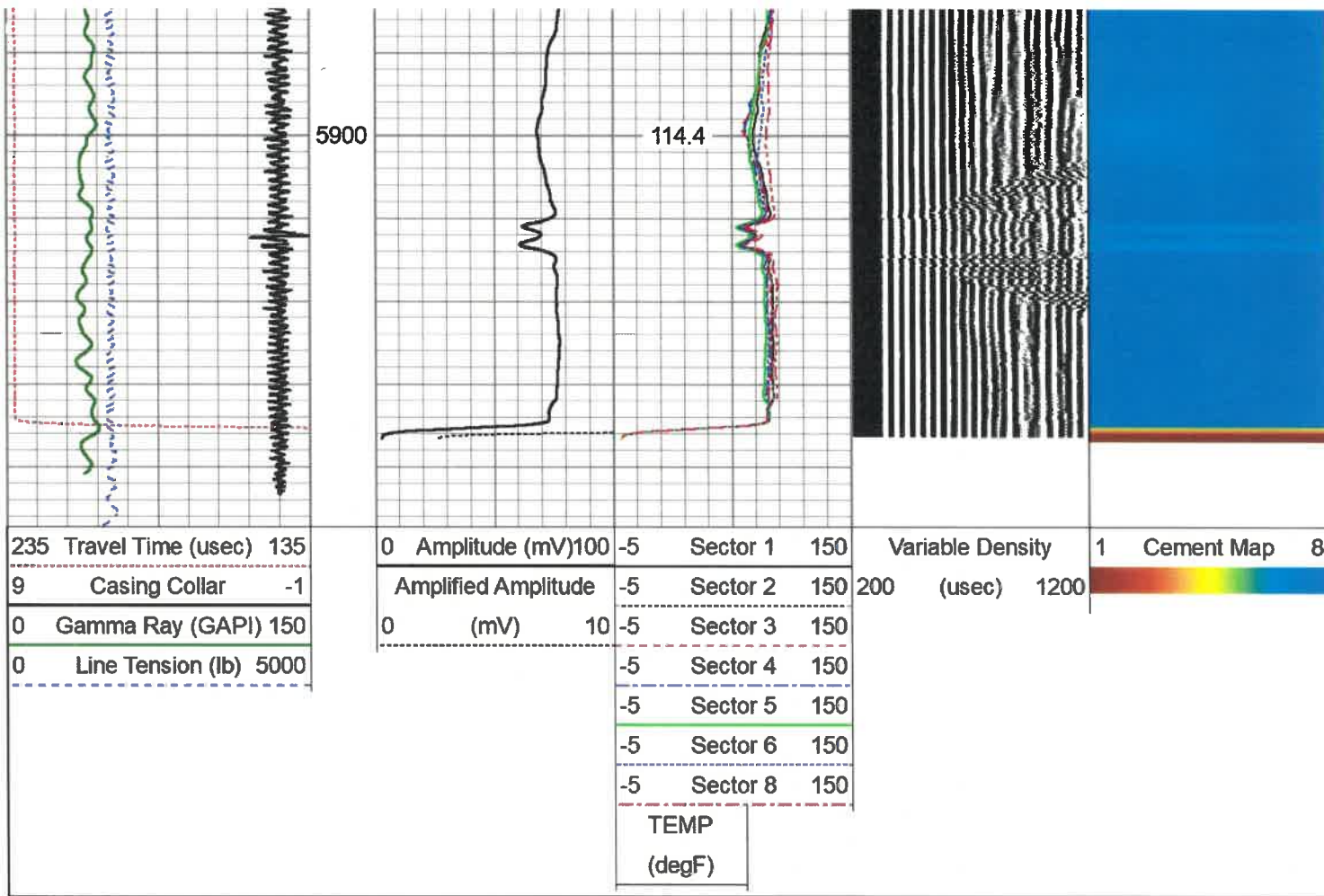












Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
			CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00	
			CENT-Probe275 2.75" Centralizer	2.88	2.75	20.00	
HeadVolt	16.99						
Temp	14.14						
WVFS8	11.91		RBT-Probe275T (FW1312-32) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00	
WVFS7	11.91						
WVFS6	11.91						
WVFS5	11.91						
WVFS4	11.91						

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: 0.5000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1312-32
 Tool Model: Probe275T

Calibration Casing Diameter: 5.000 in
 Calibration Depth: 67.700 ft

Master Calibration, performed Tue Jun 16 09:56:15 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.005	0.746	2.400	76.186	98.311	2.879
CAL	-0.005	0.019				
5'	-0.005	0.549	2.400	76.186	133.208	3.054
SUM						
S1	-0.004	0.861	0.000	100.000	115.626	0.483
S2	-0.005	0.773	0.000	100.000	128.575	0.592
S3	-0.005	0.742	0.000	100.000	133.999	0.640
S4	-0.005	0.704	0.000	100.000	141.112	0.680
S5	-0.005	0.689	0.000	100.000	144.086	0.691
S6	-0.005	0.697	0.000	100.000	142.522	0.684
S7	-0.005	0.734	0.000	100.000	135.362	0.659
S8	-0.005	0.791	0.000	100.000	125.586	0.613

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.005	0.019	1.000	0.000

Air Zero Calibration, performed Tue Jun 16 08:05:10 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



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