



Nine

Segmented Radial Cement Bond W/Gamma Ray , CCL Log

Company Antero
Well Marcellina 1H
Field Rabbit Ears
County Tyler
State WV
Country USA

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Location: API #: 47-095-02829-0000

Permanent Datum SEC N/A TWP N/A RGE N/A
Log Measured From Ground Level Elevation
Drilling Measured From R.K.B. 25.5'

Other Services
NONE

Elevation
K.B.
D.F.
G.L.

Date 25-April-2023

Run Number	One
Depth Driller	24,049
Depth Logger	6903
Bottom Logged Interval	6903
Top Log Interval	Surface
Open Hole Size	8.75"
Type Fluid	F/W
Density / Viscosity	8.6#
Max. Recorded Temp.	143
Estimated Cement Top	N/A
Time Well Ready	22:00
Time Logger on Bottom	14:08
Equipment Number	116
Location	Charletoi
Recorded By	K.Linger
Witnessed By	Mr Matt Johnson

Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
One	24"	Surface	128'				
Two	17.5"	128'	439'				
Three	12.725"	439'	3,634'				
Four	5.5	3,634'	23,309'				

Casing Record		WQ/FT		Top		Bottom	
Surface String	Size	13.375"	54.5#	Surface	427	Surface	3,435
Prot. String	9.625		36#	Surface		Surface	427
Production String	5.5		23#	Surface		Surface	3,435
Liner							23,309'

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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


Zero @ Ground Level = 25.5' R.K.B.
Correlated to the pipe tally as per request
Marker Joint @ 5,639' - 5,649'
Depth Shift - Up hole 1 Ft to Match Casing Tally
Thank You for using Nine Energy

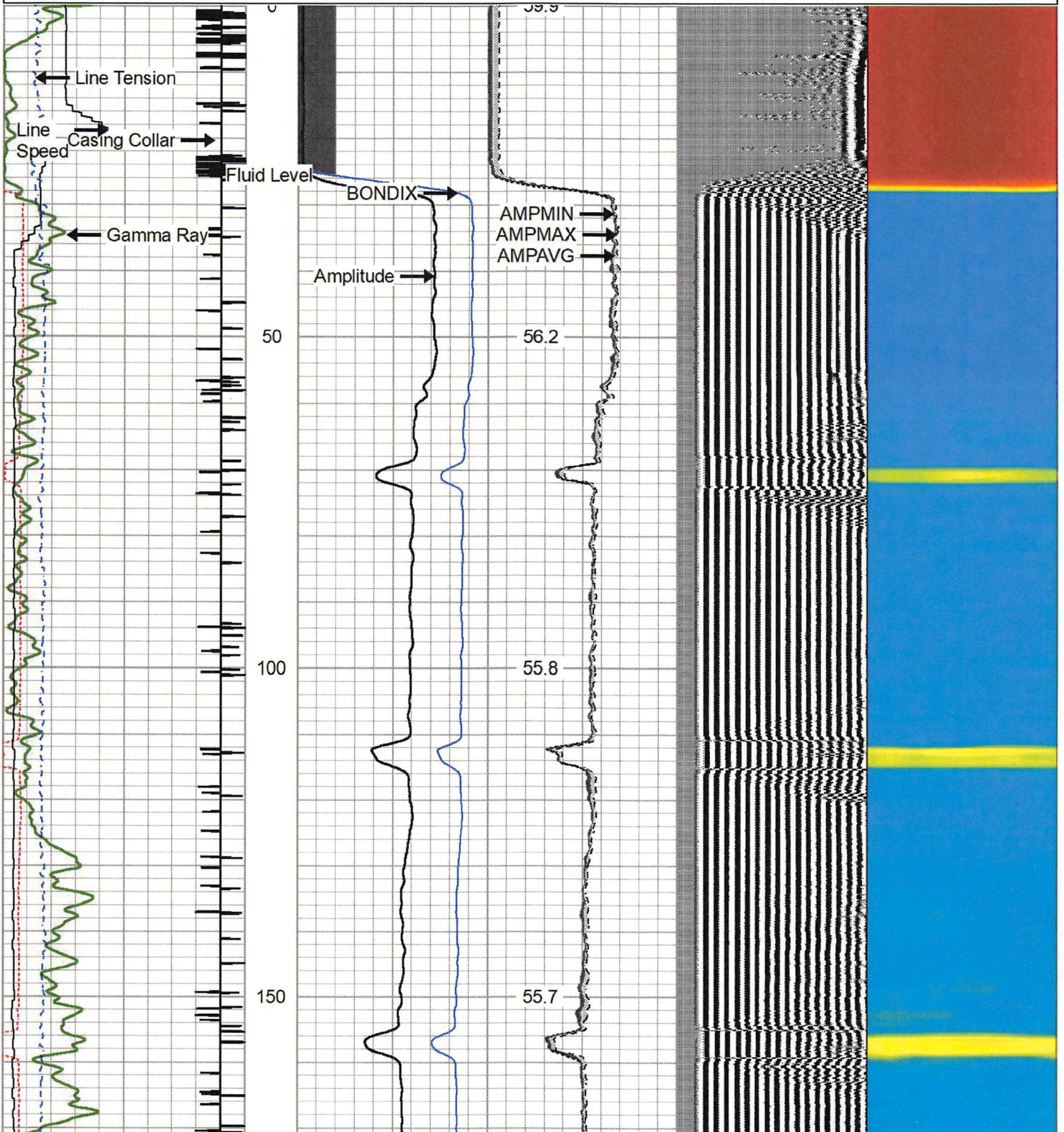
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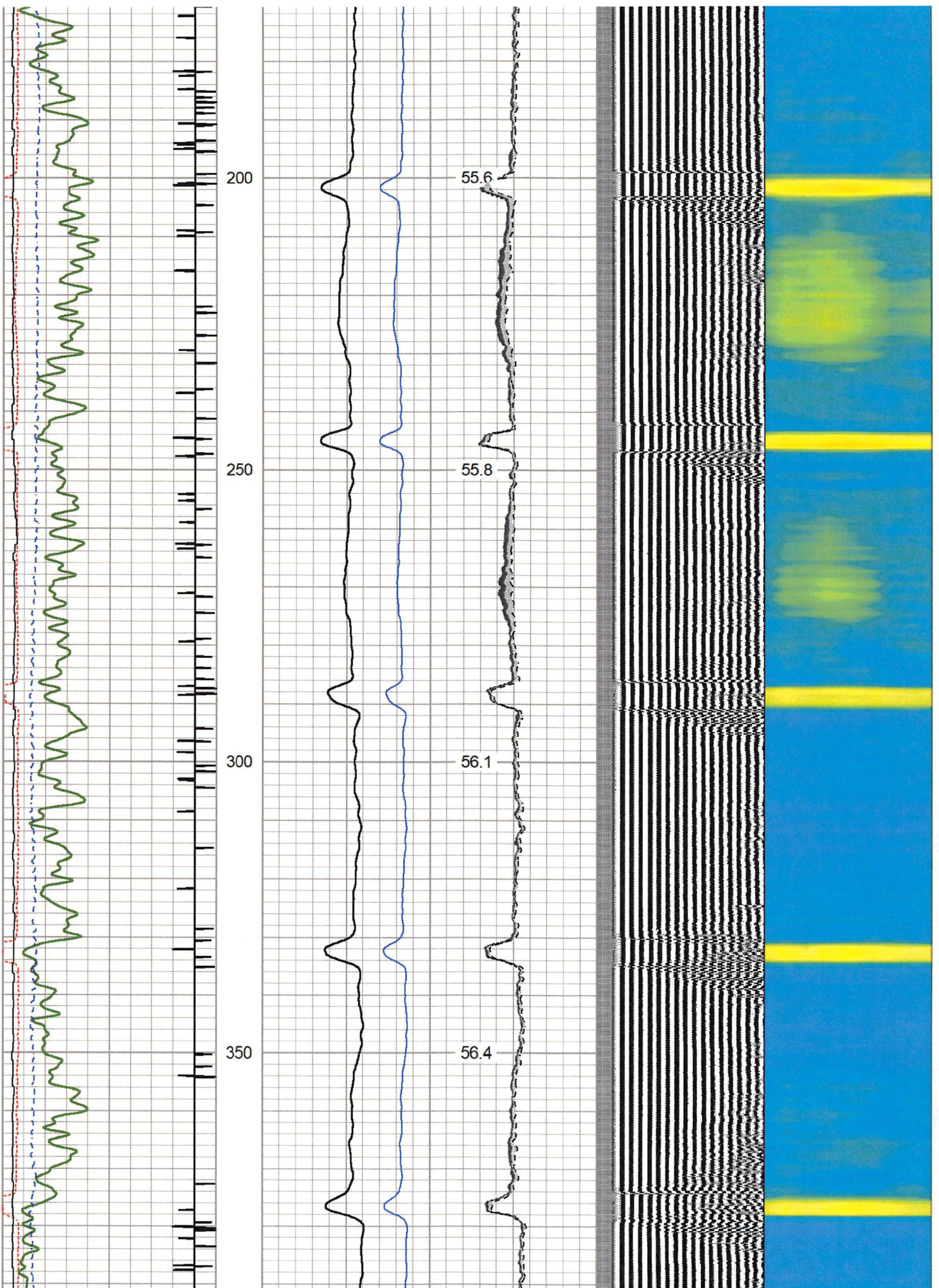


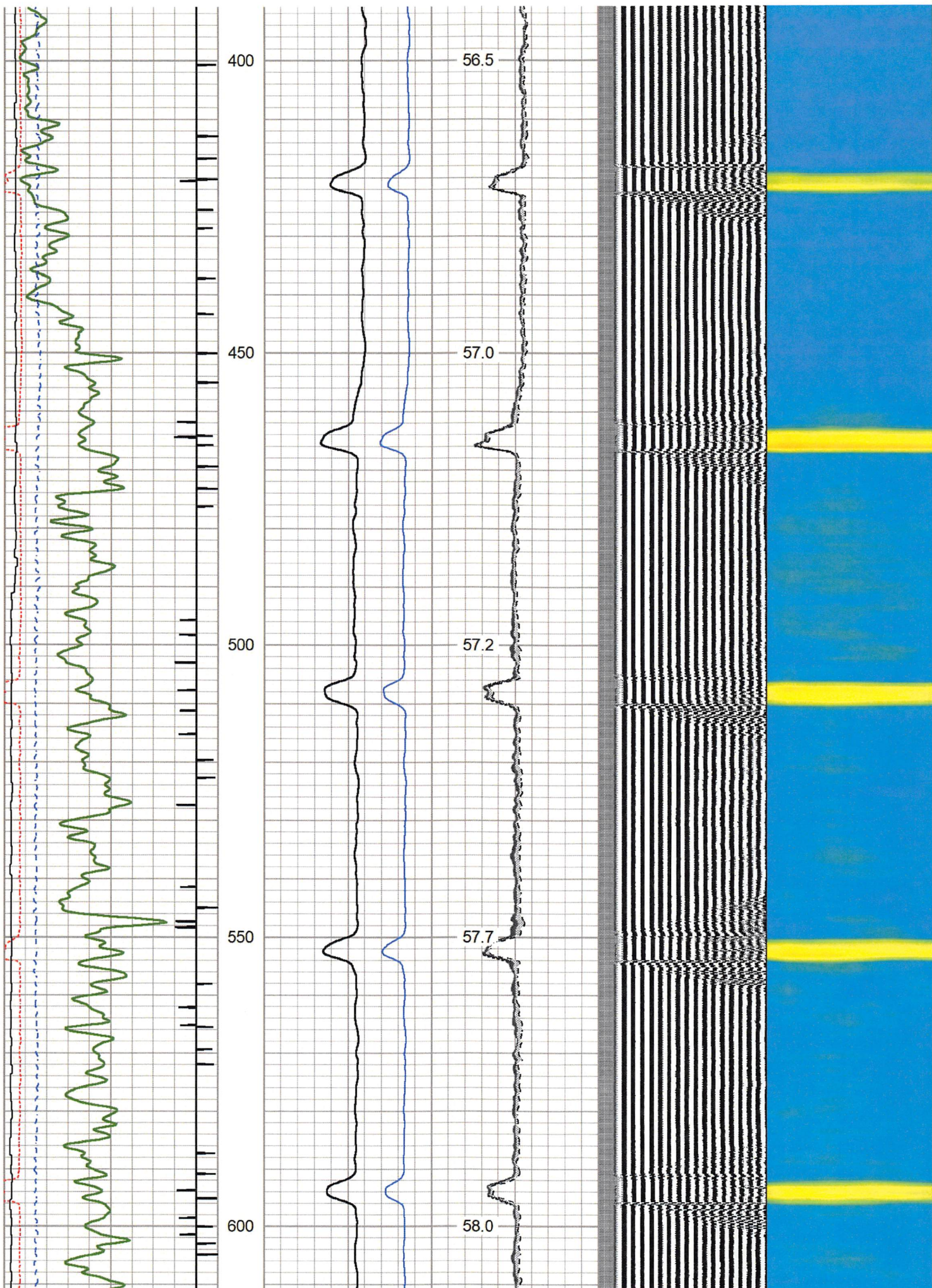
MAIN PASS 1500 PSI

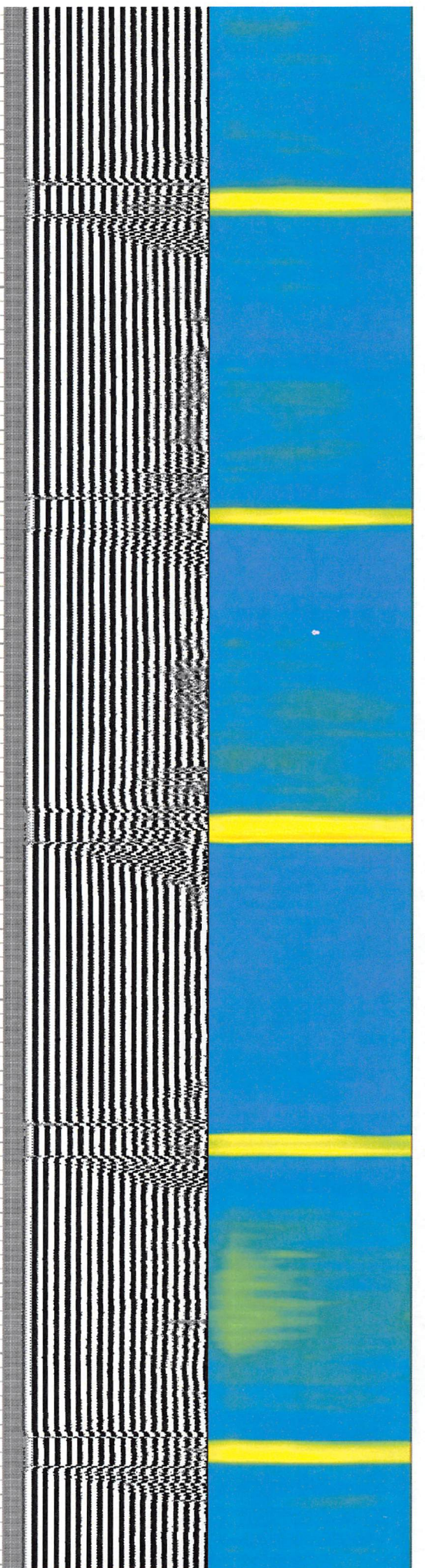
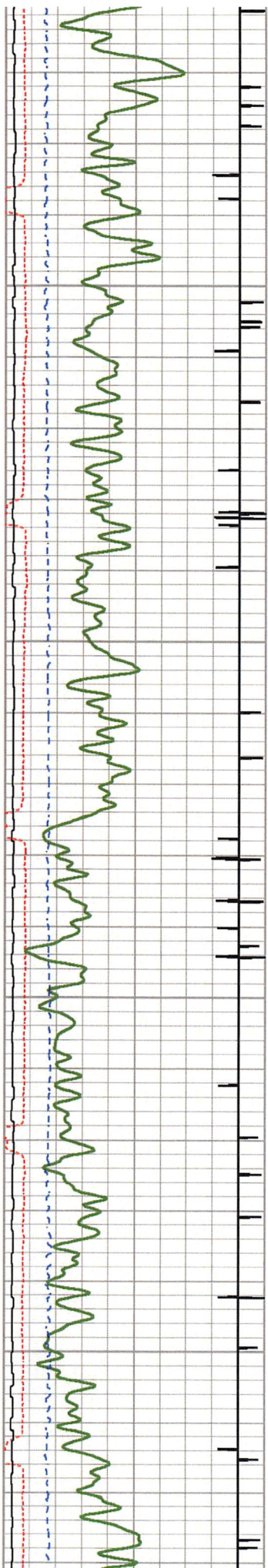
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 Dataset Pathname merge1.1
 Presentation Format rcbl-bond index for antero 1020
 Dataset Creation Tue Apr 25 15:40:59 2023
 Charted by Depth in Feet scaled 1:240

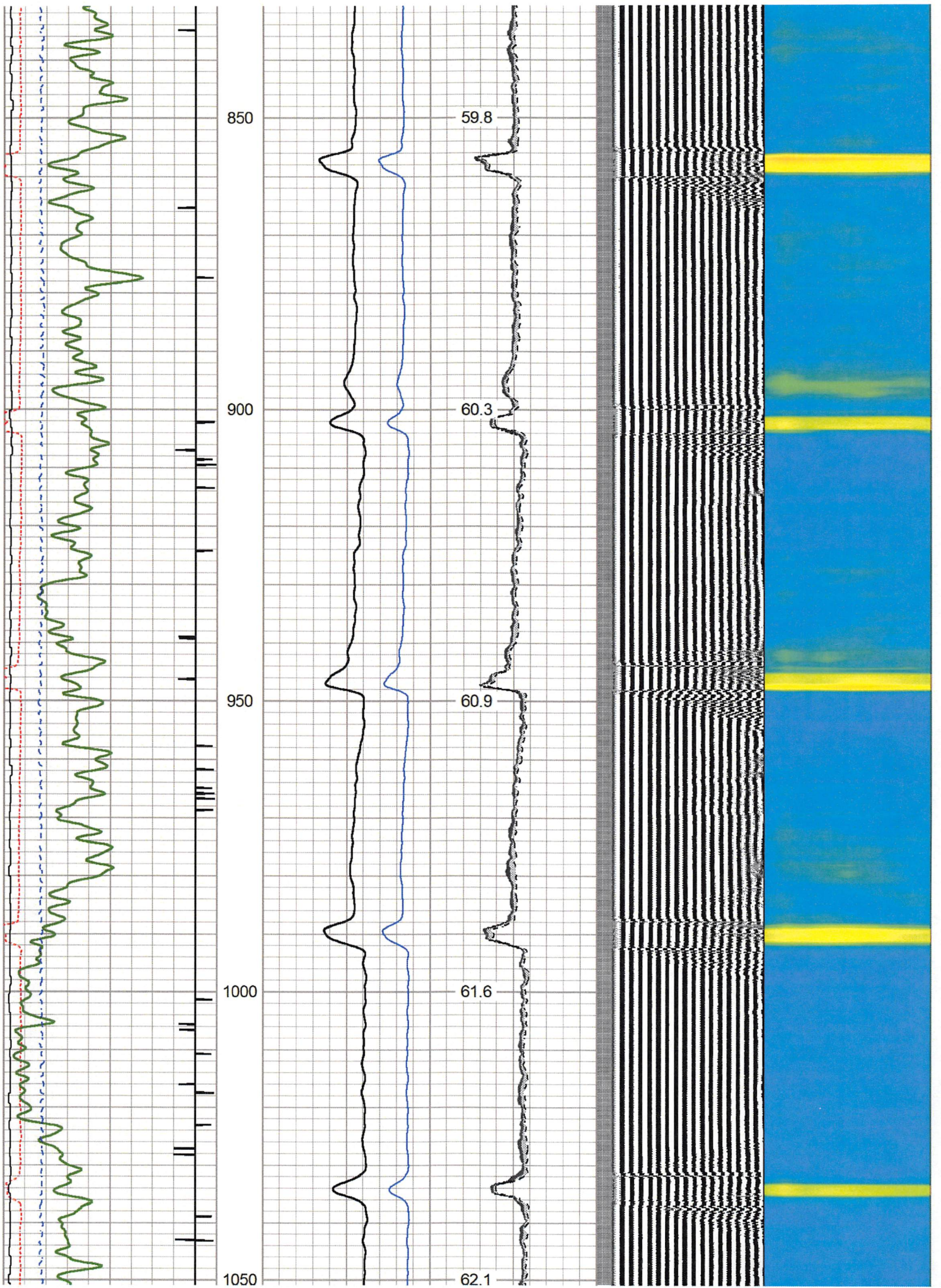
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9	Casing Collar	-1	1	BONDIX	0	0	AMPMAX	150	300 (usec)	1200		
0	Gamma Ray (GAPI)	150	0			0	AMPAVG	150				
	Line Speed						TEMP					
-100	(ft/min)	100					(degF)					
0	Line Tension (lb)	2000										

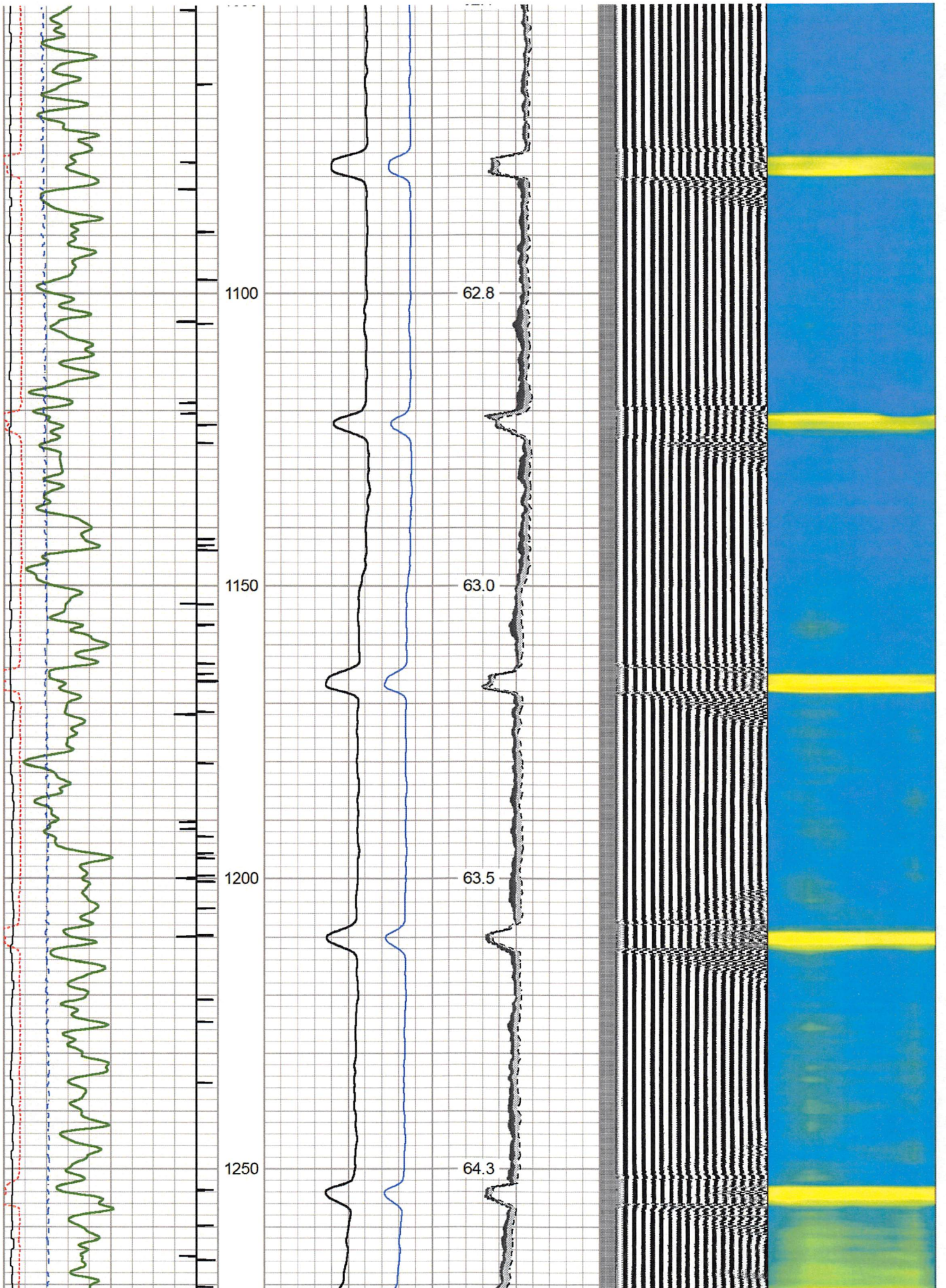


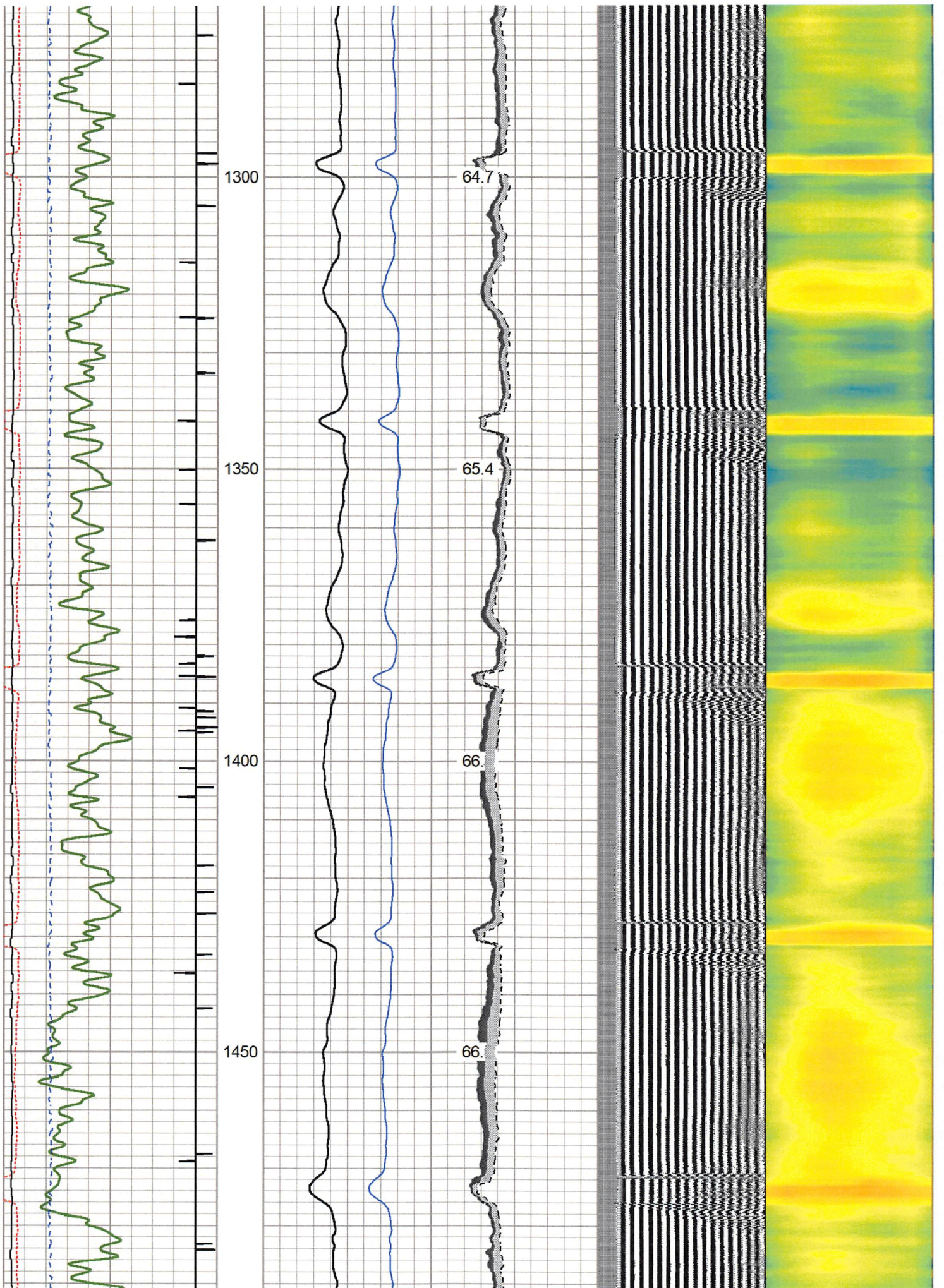


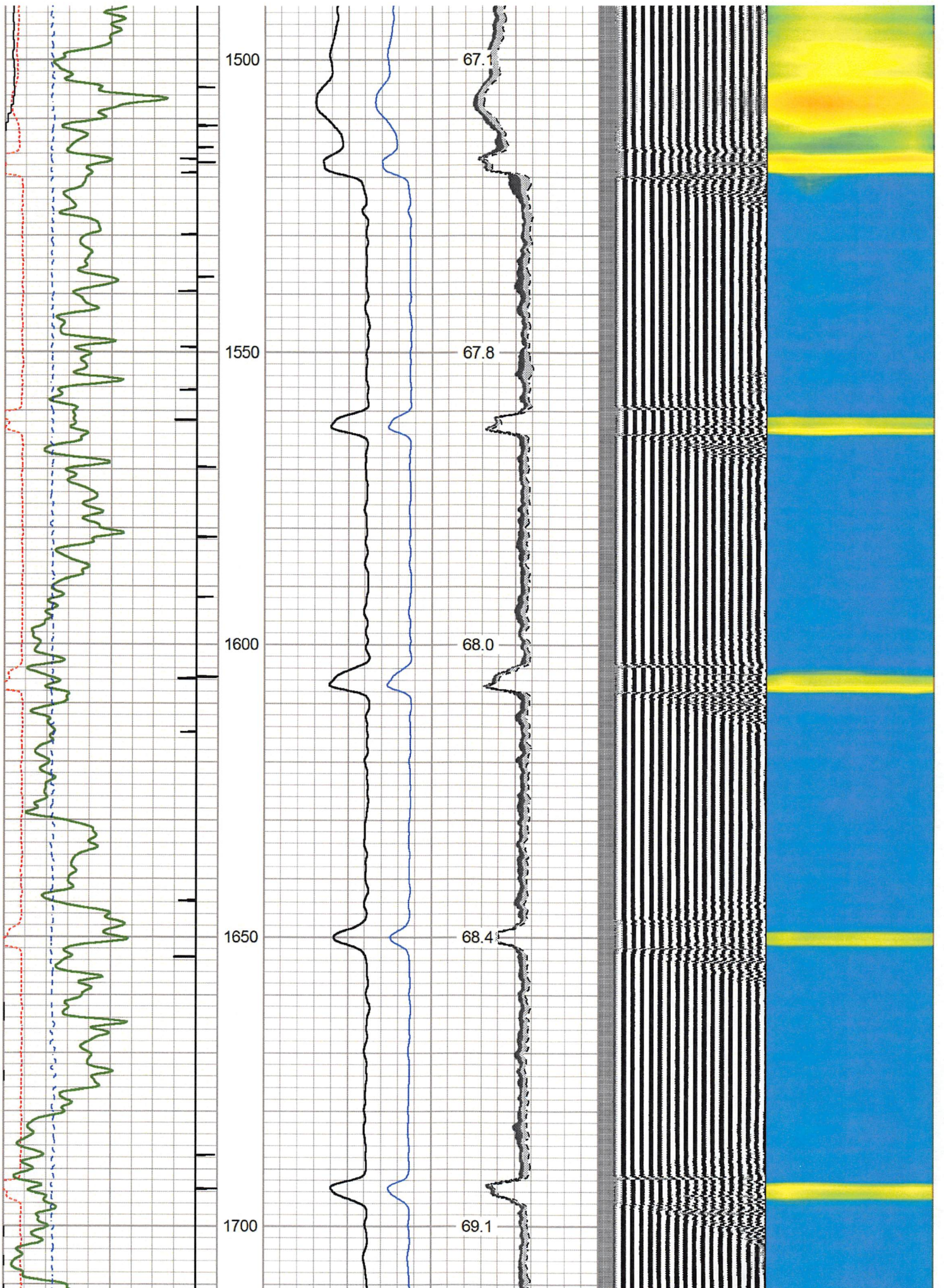


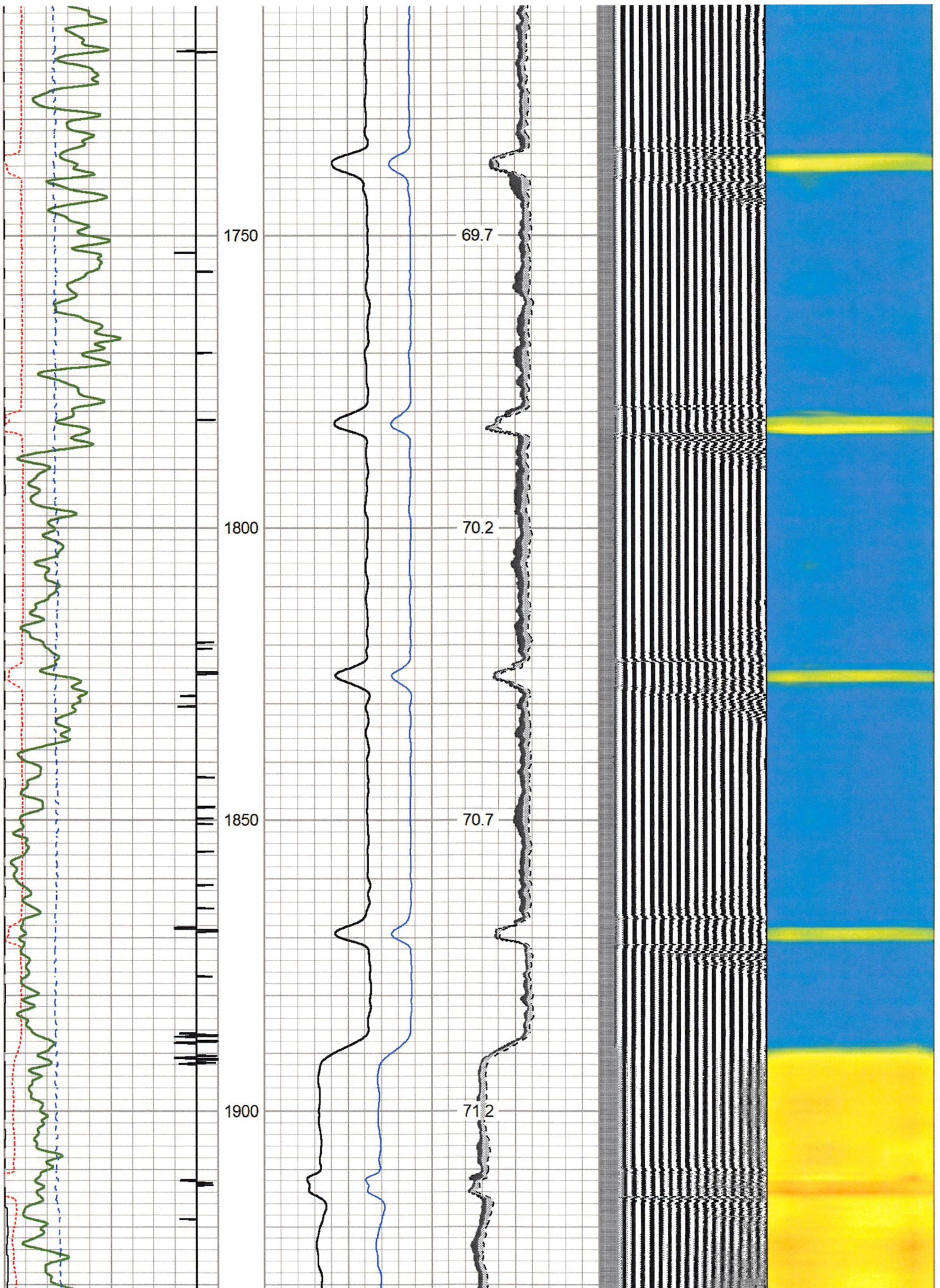


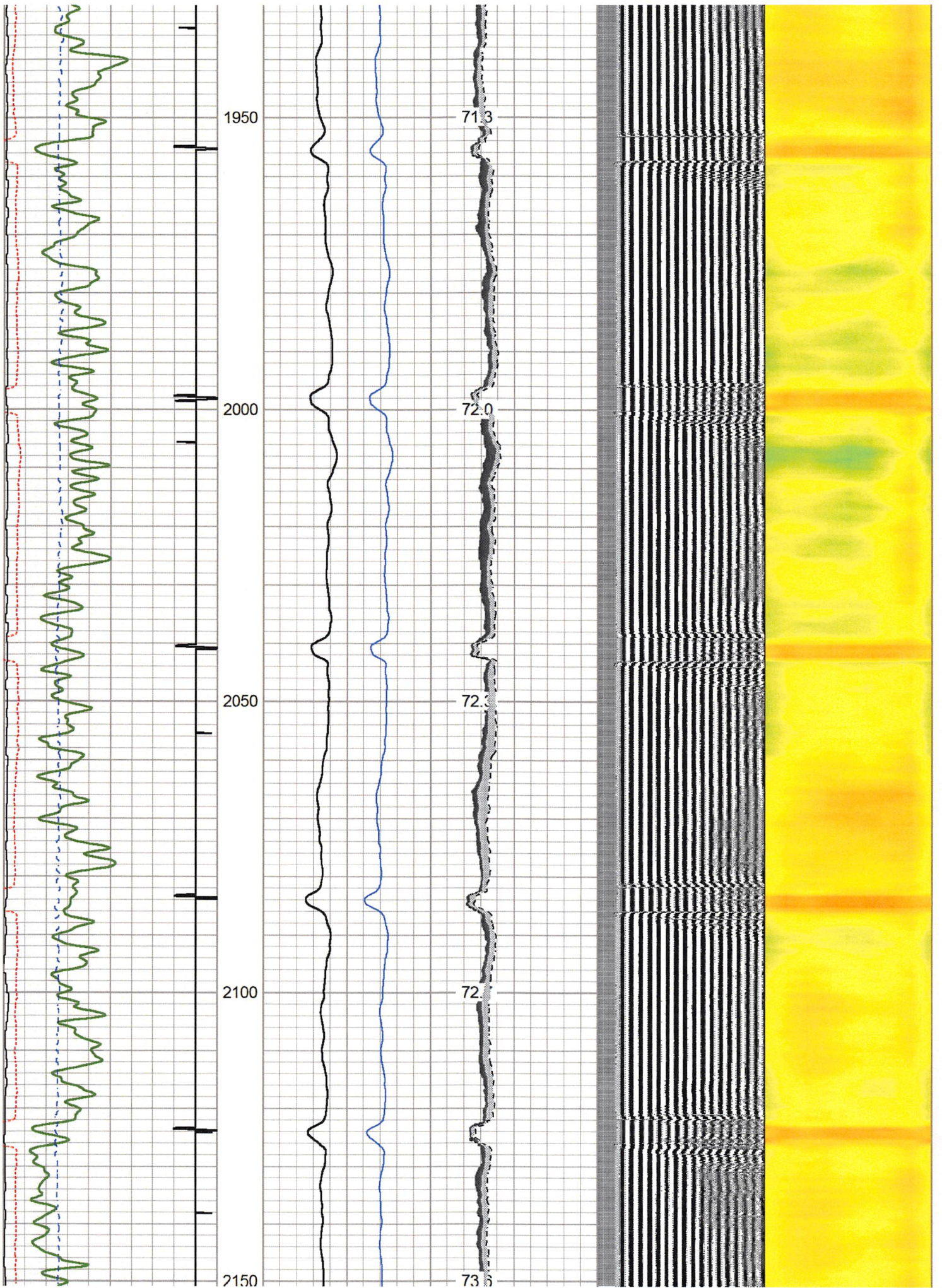


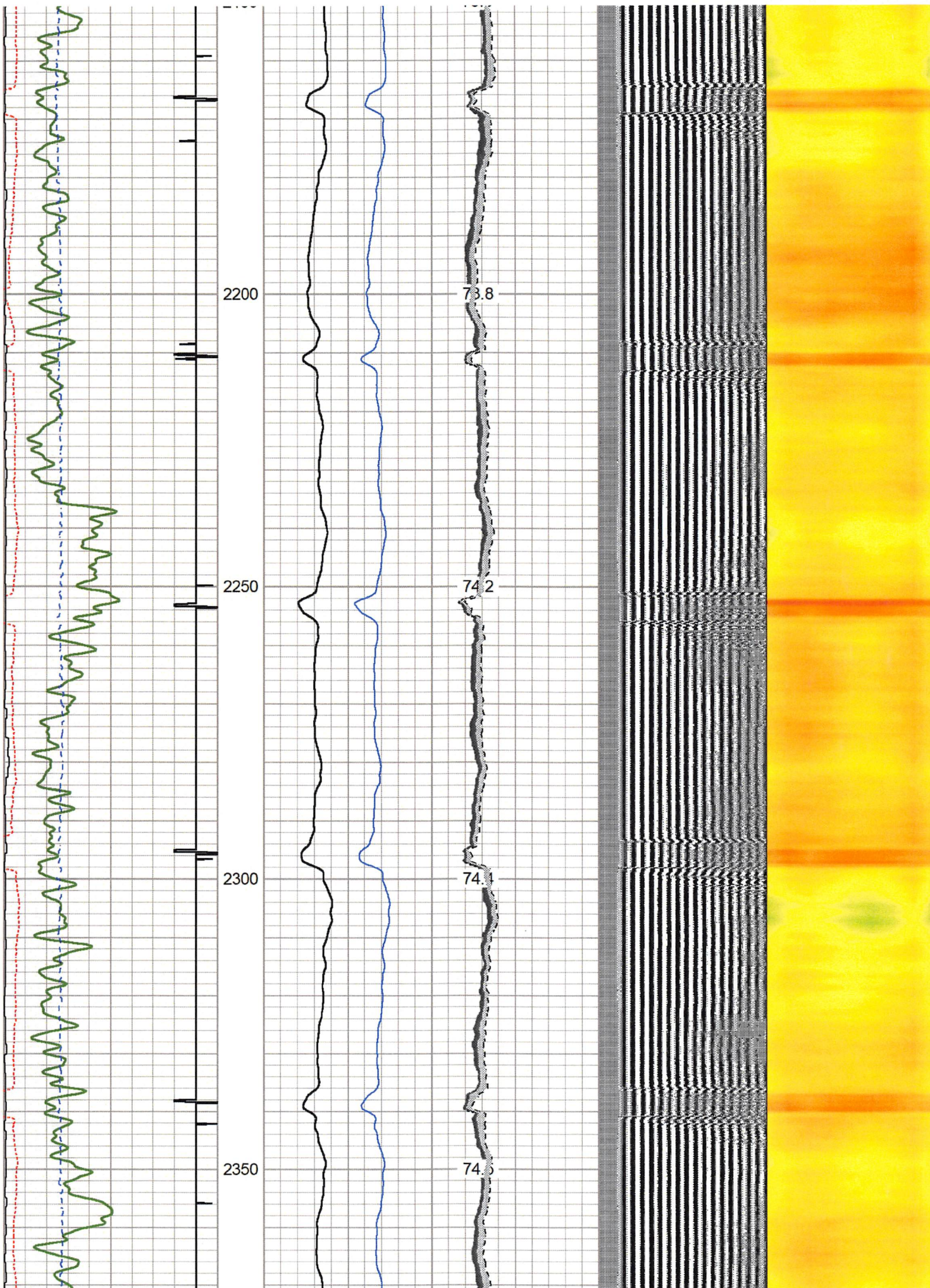


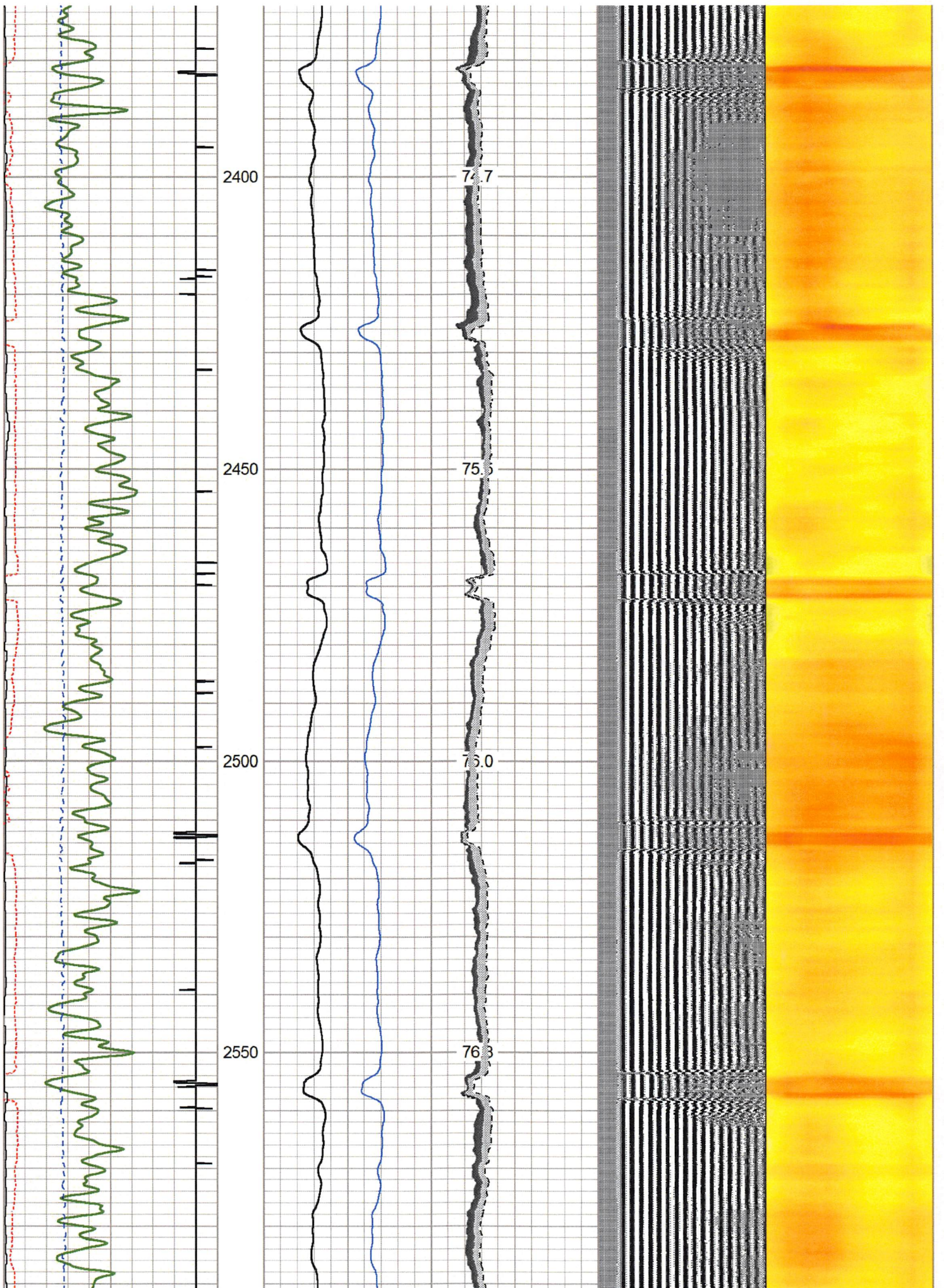


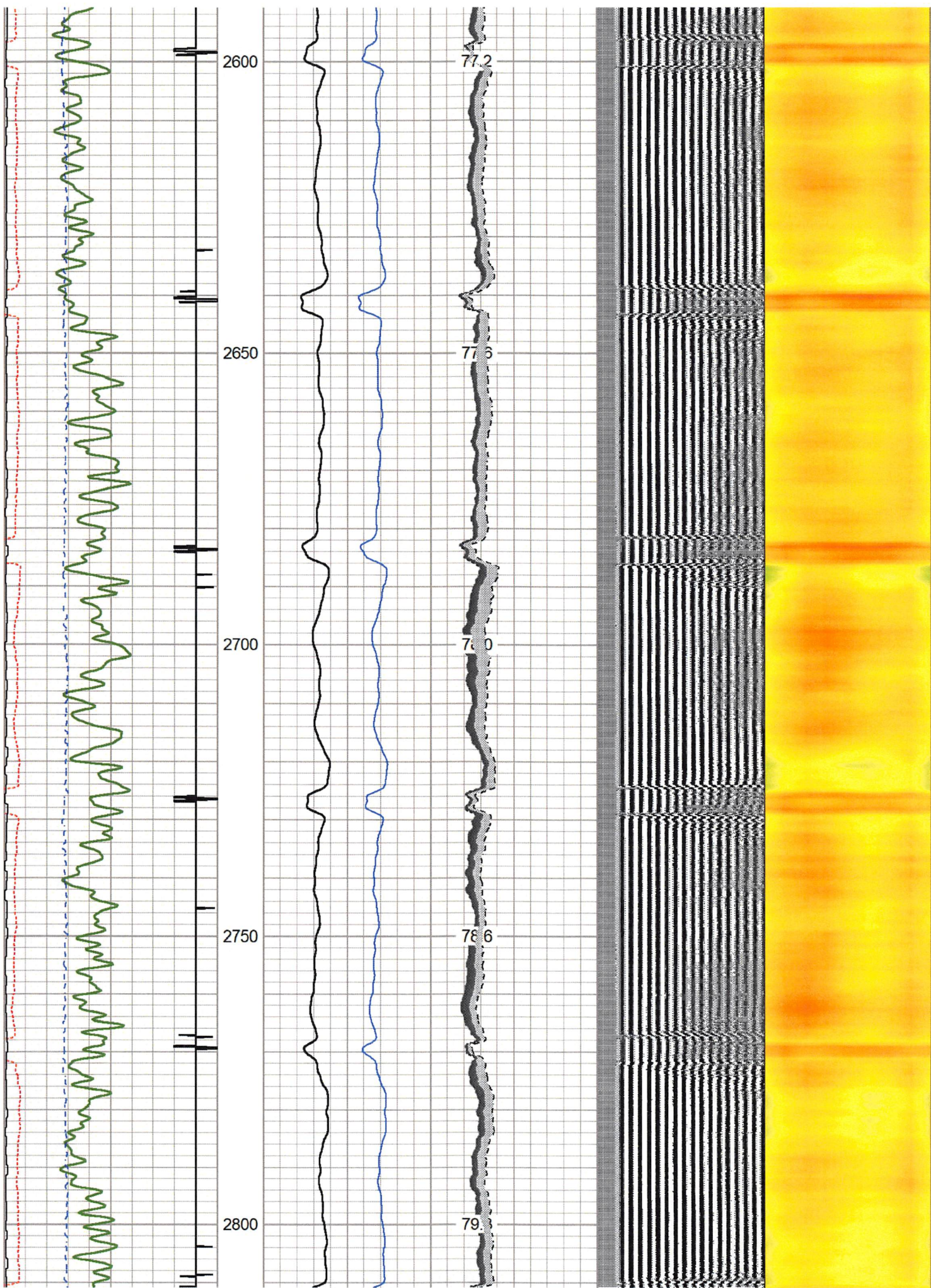


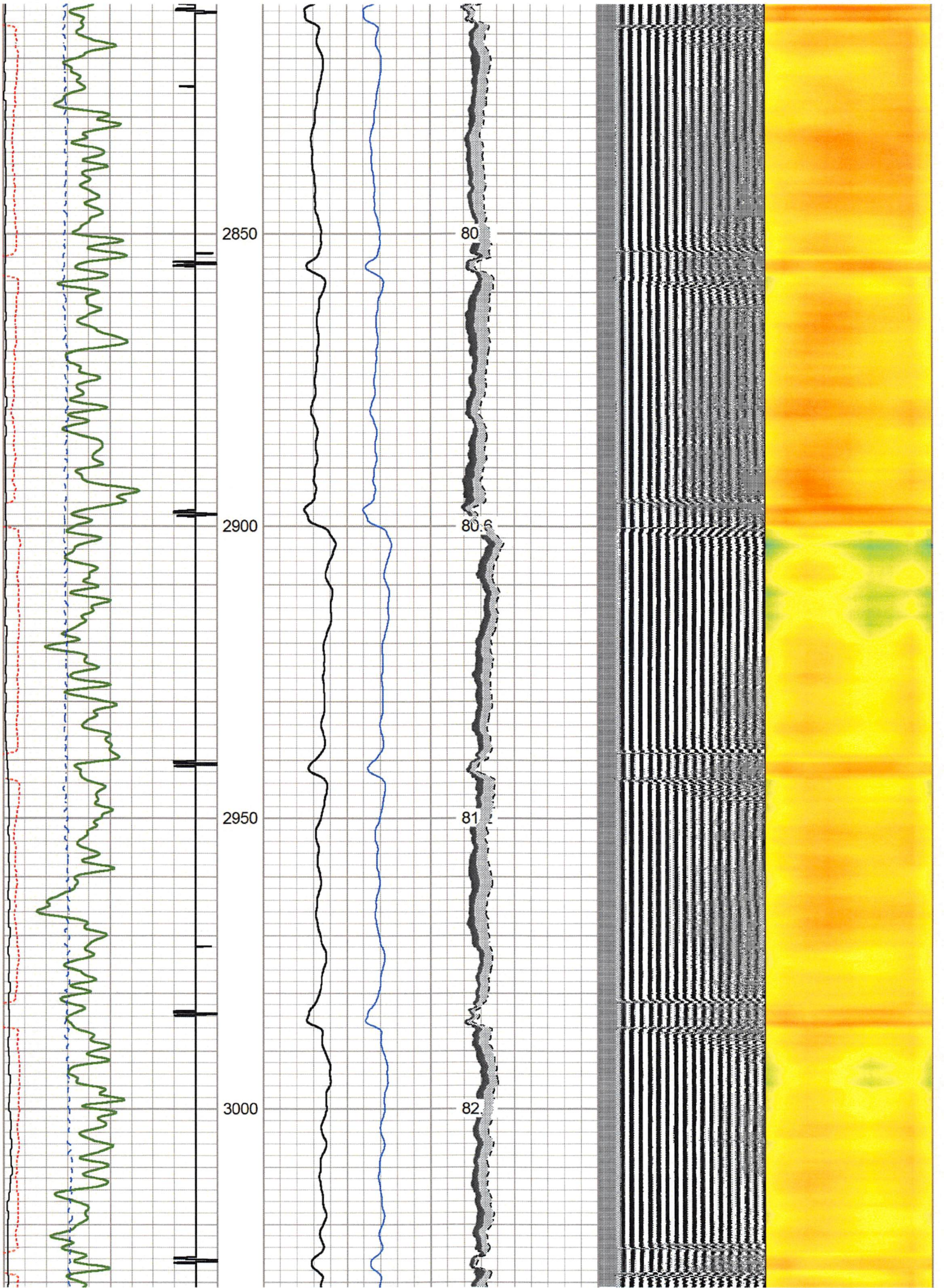


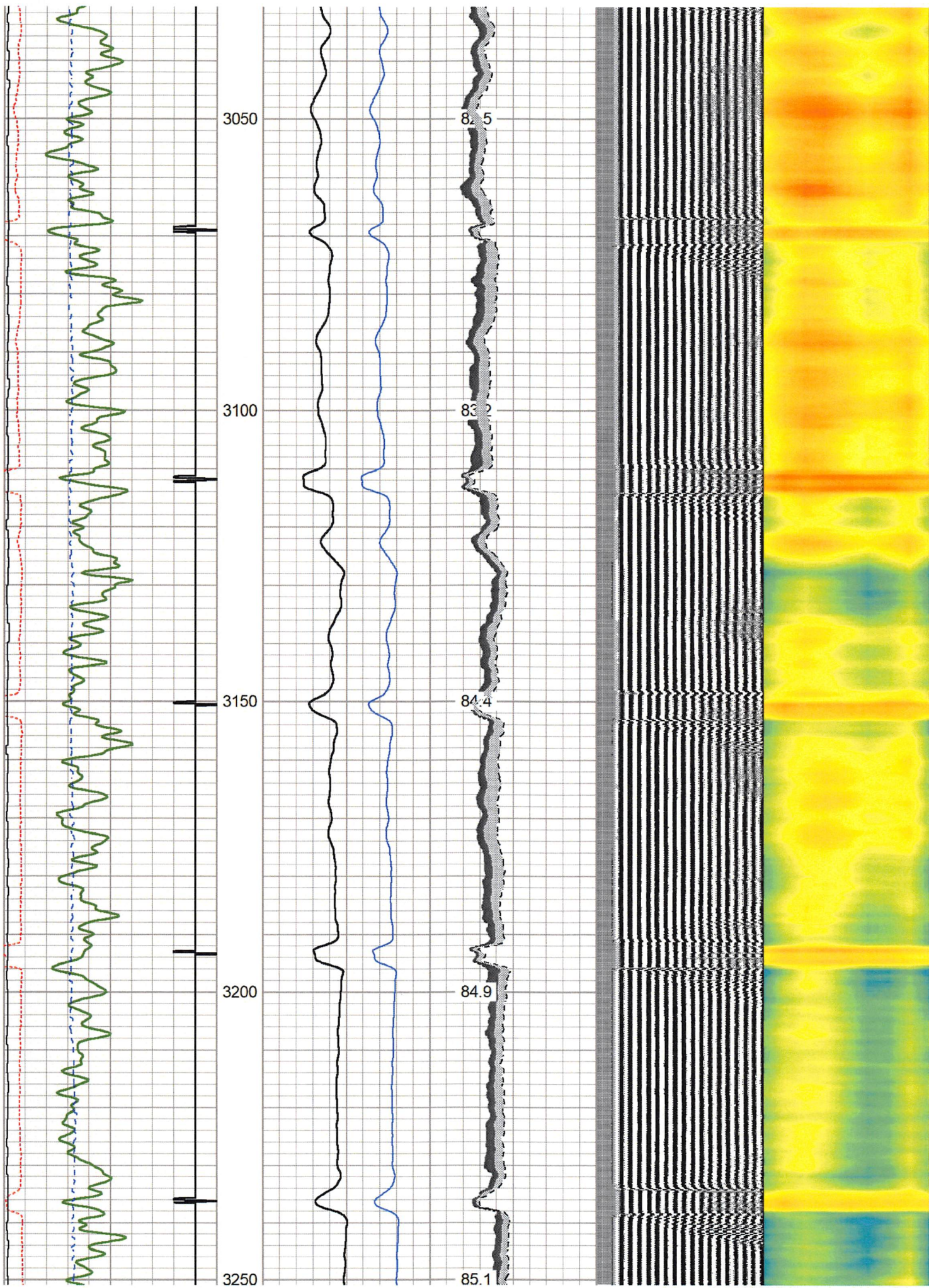


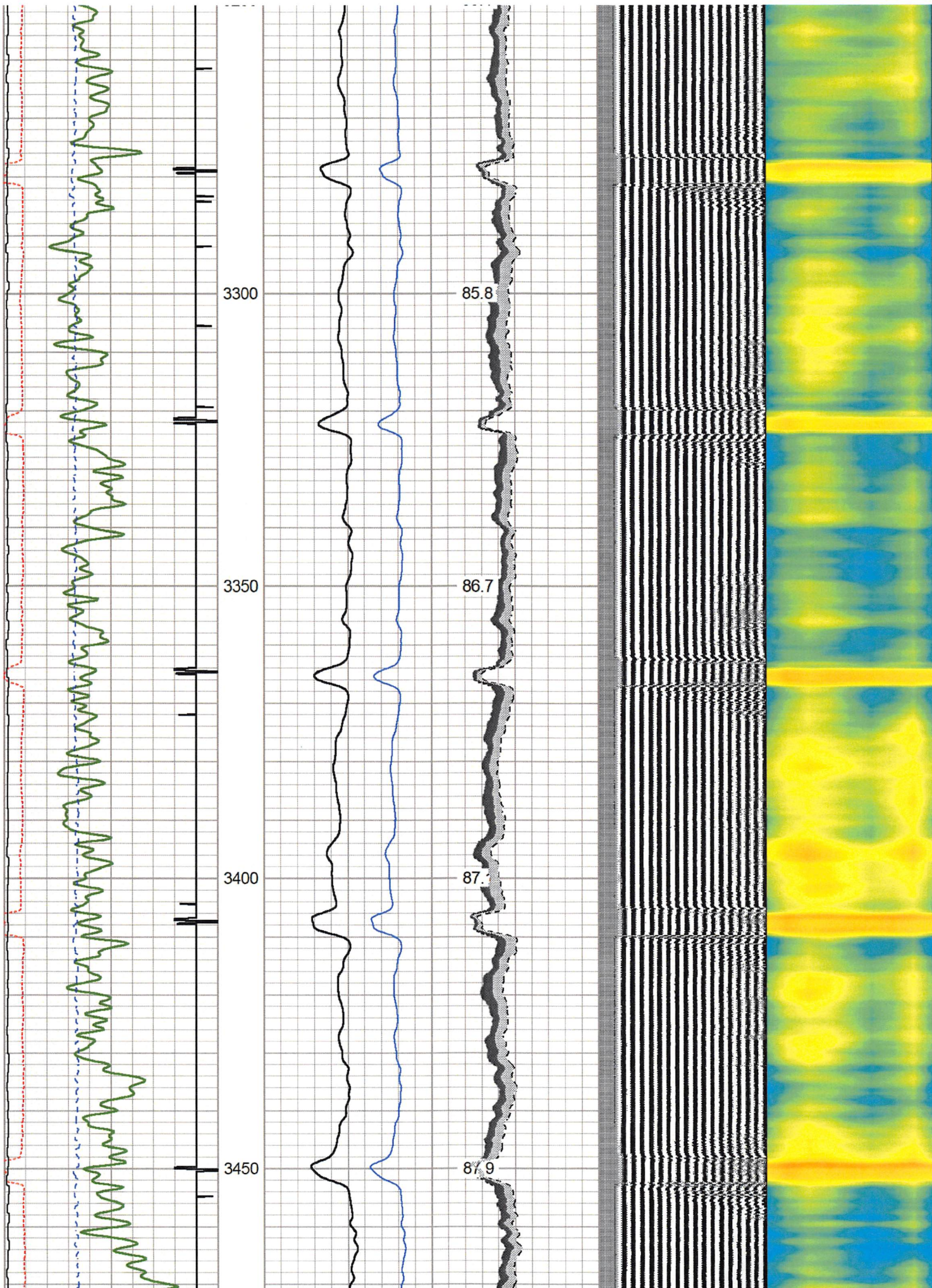


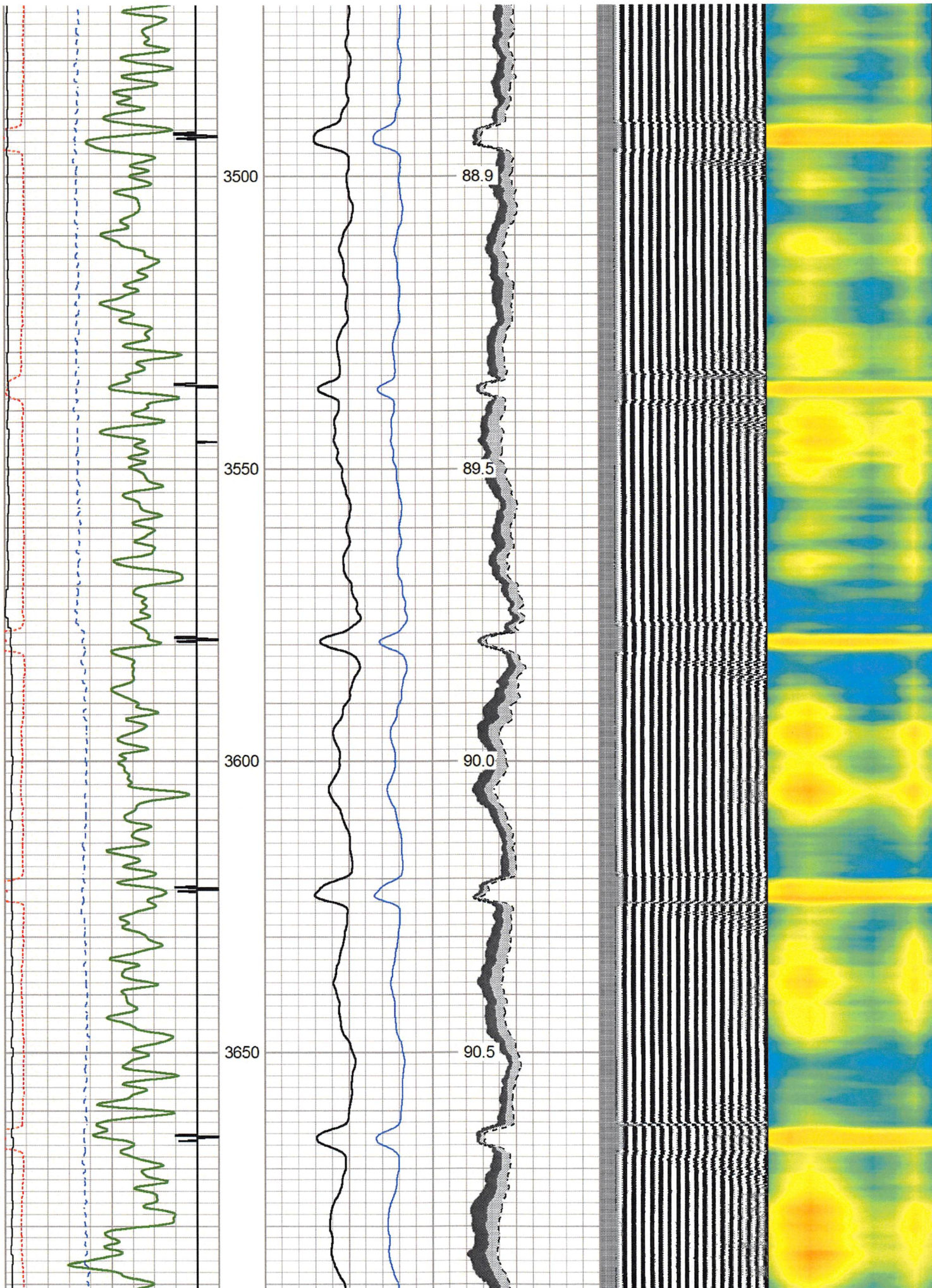


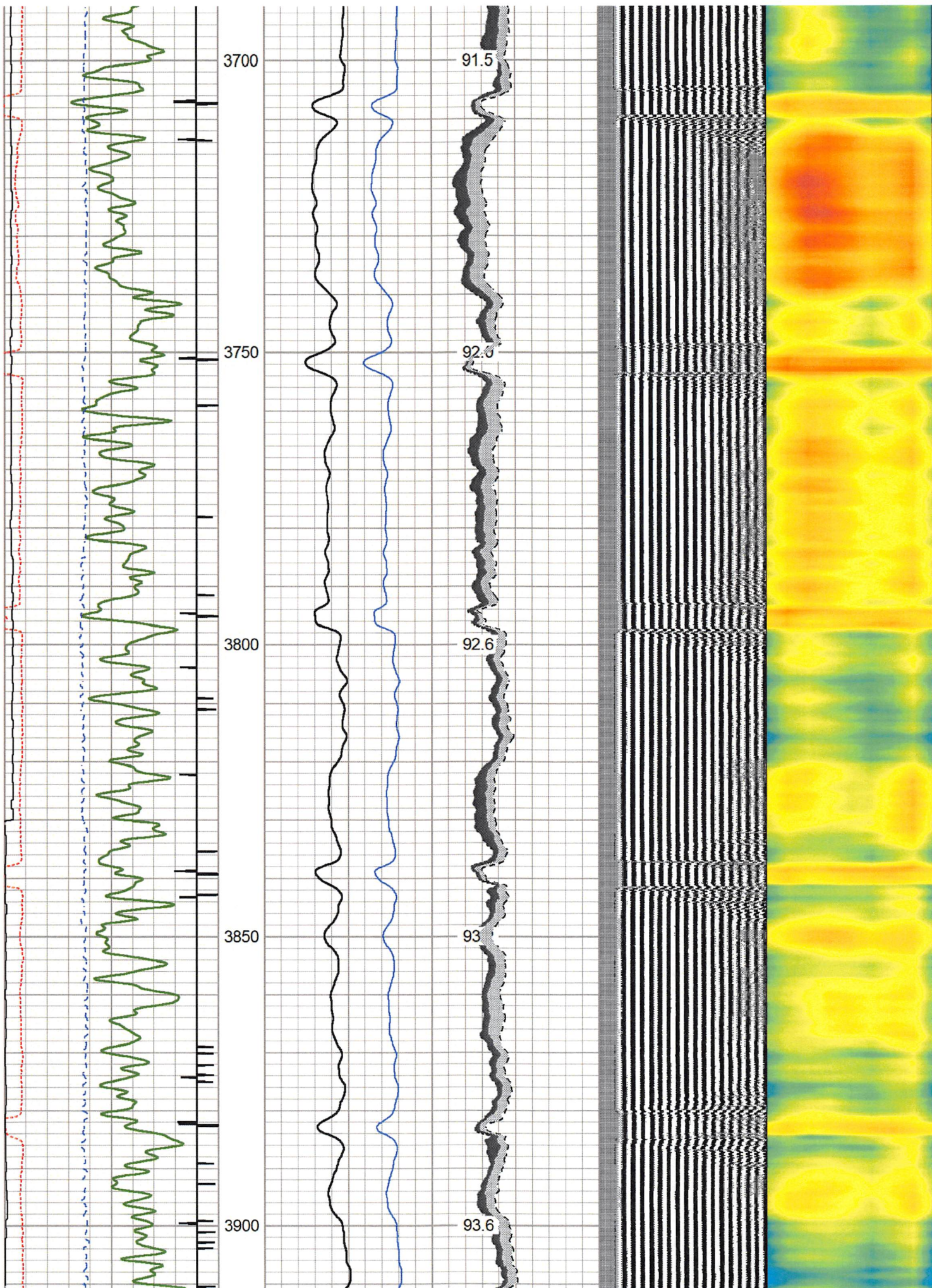


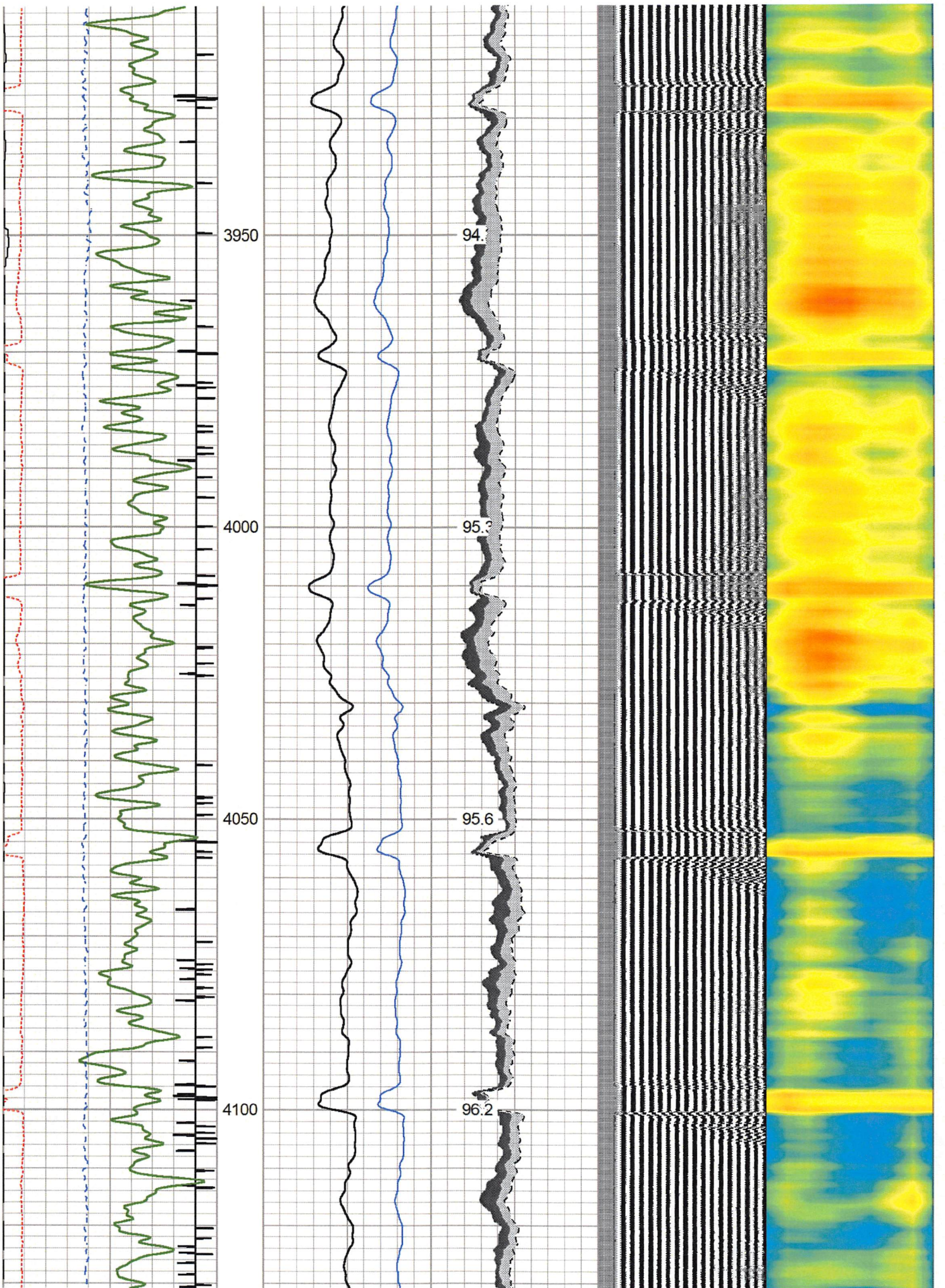


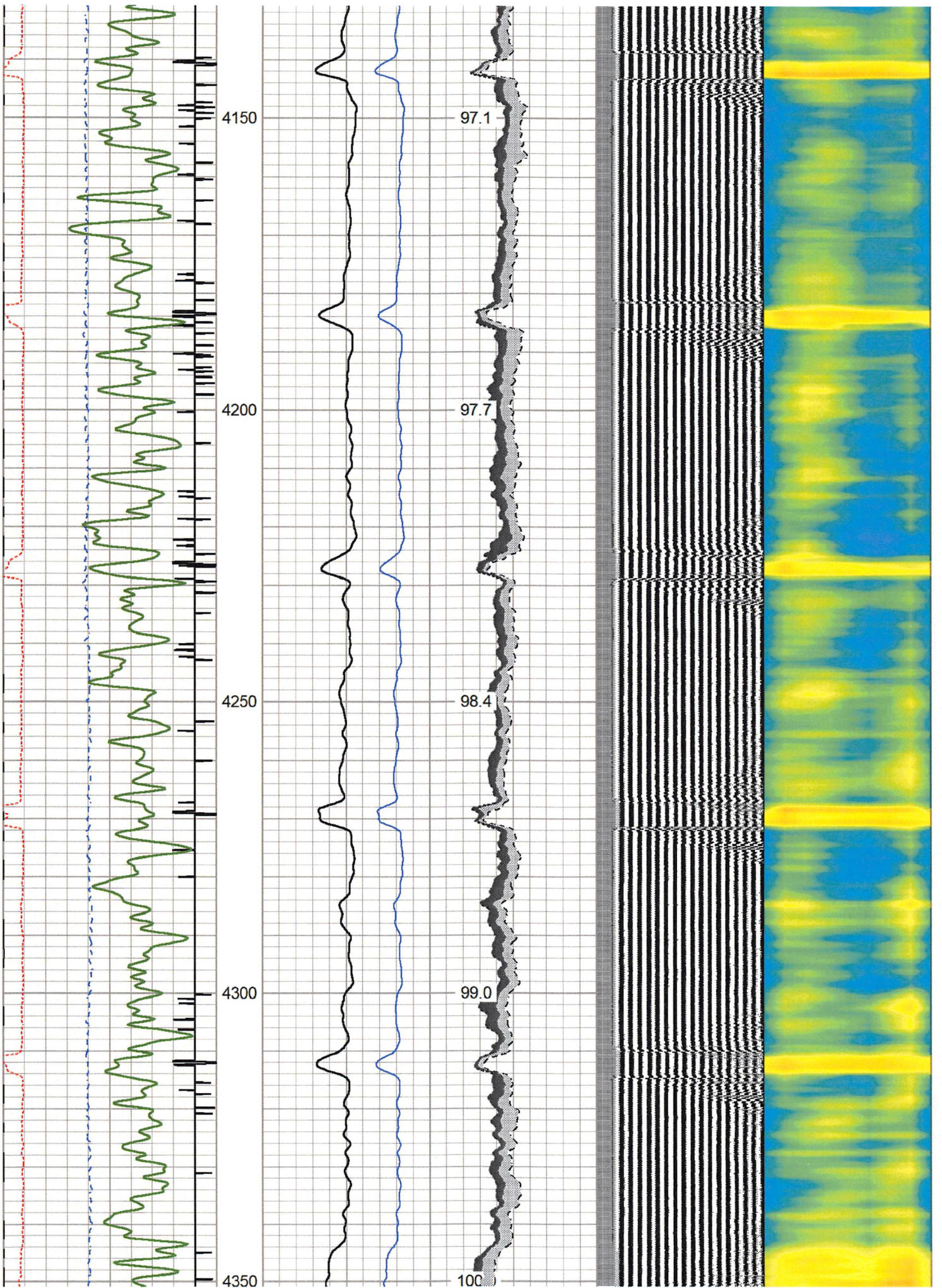


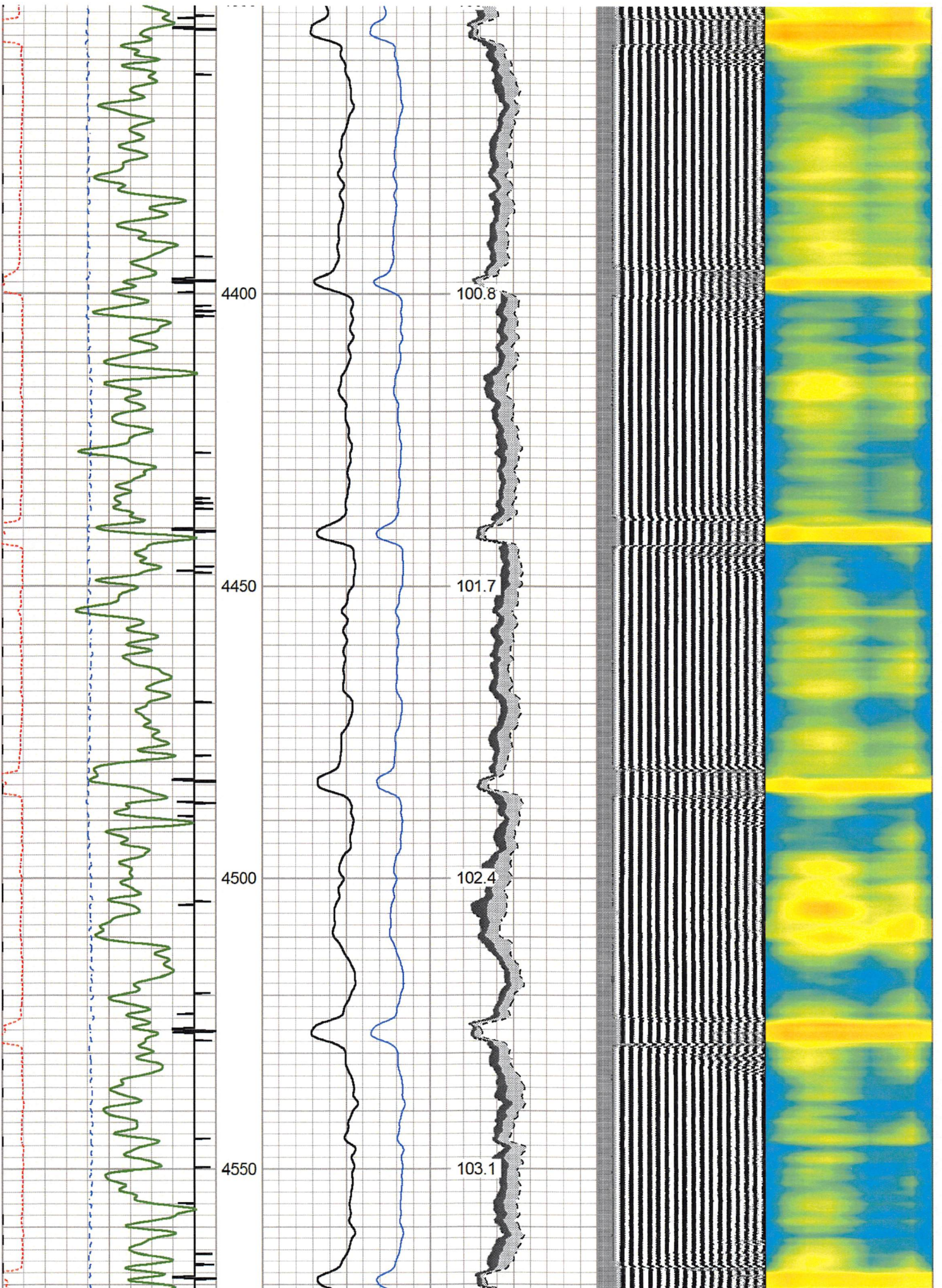


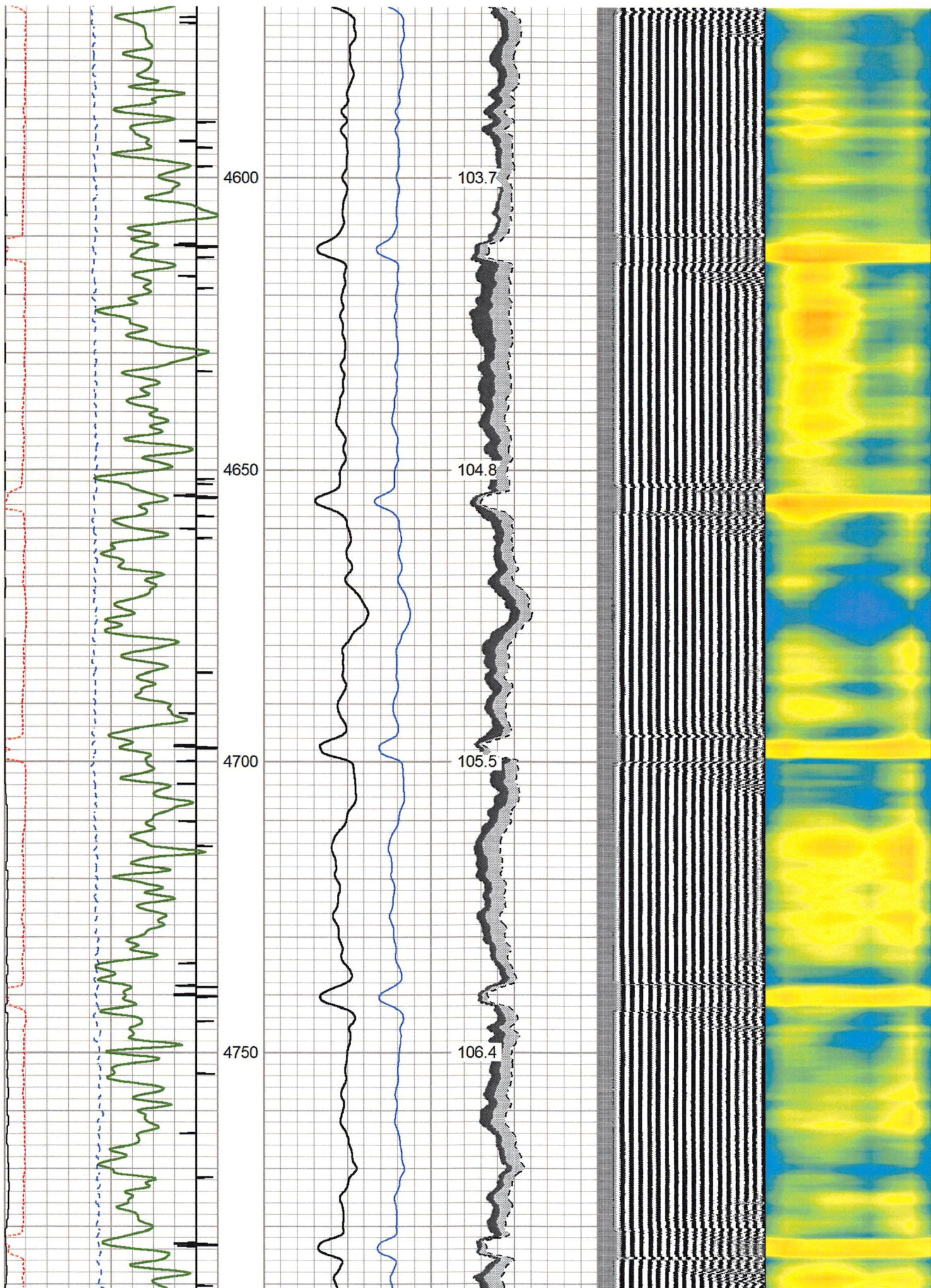


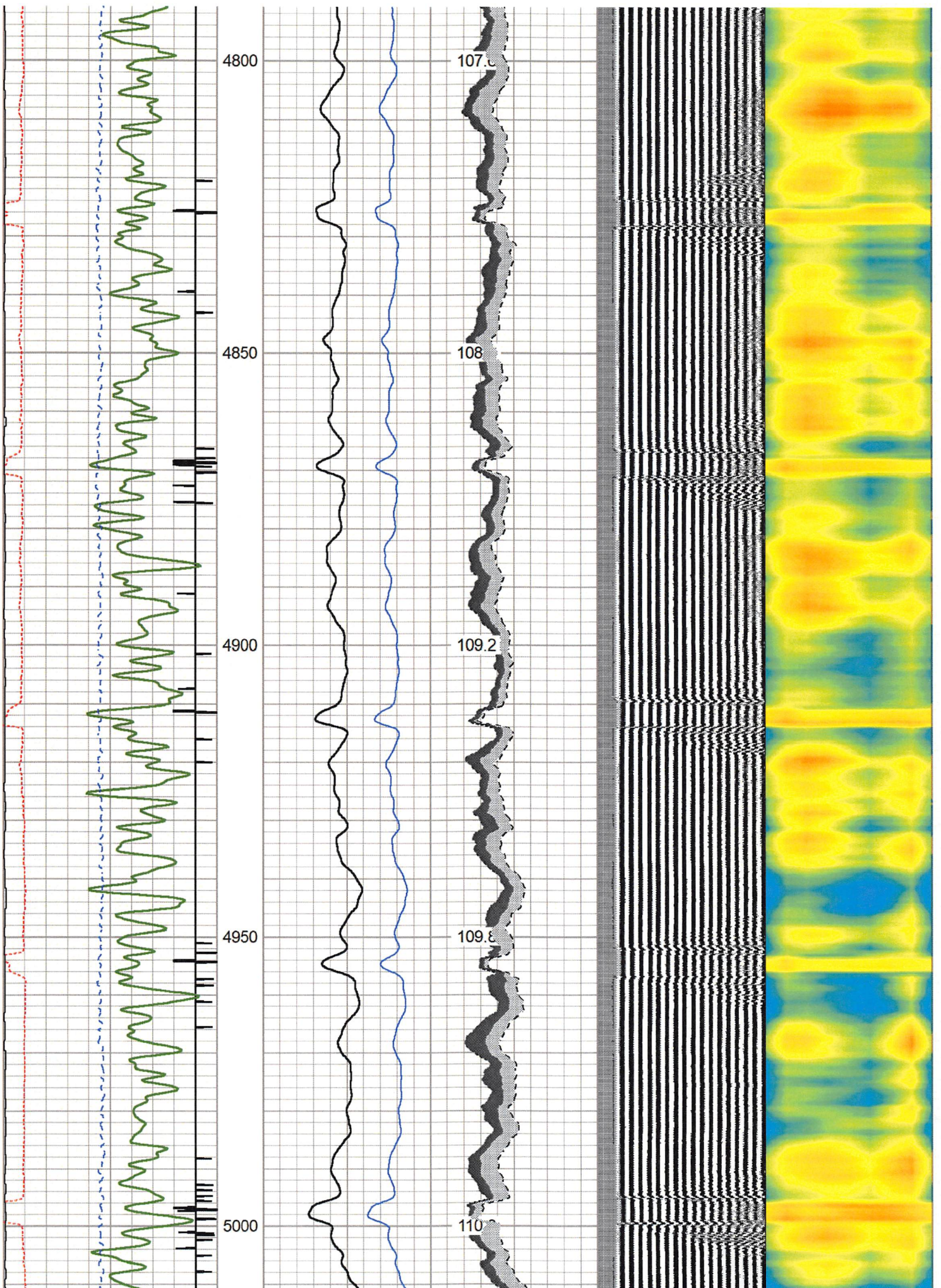


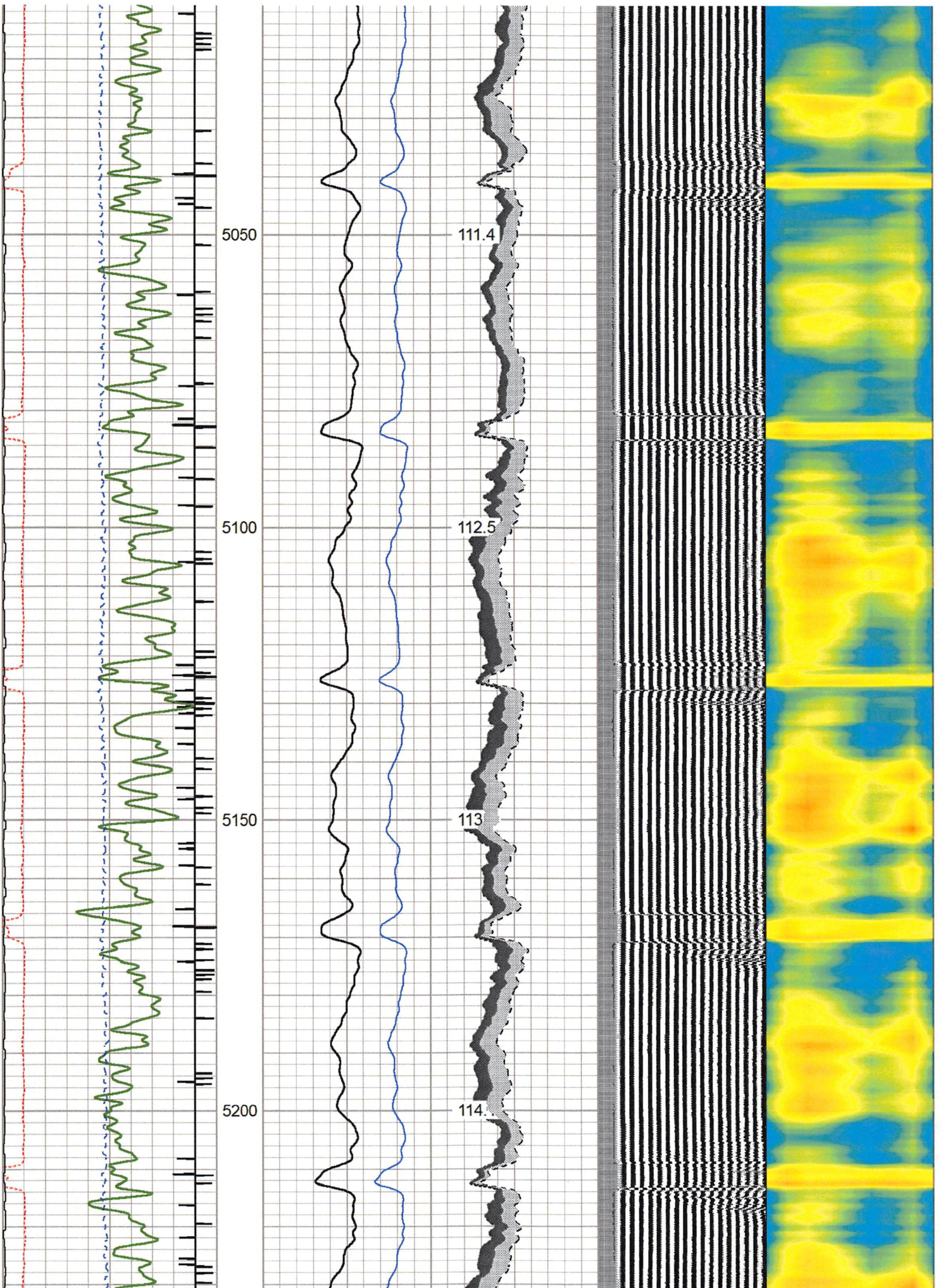


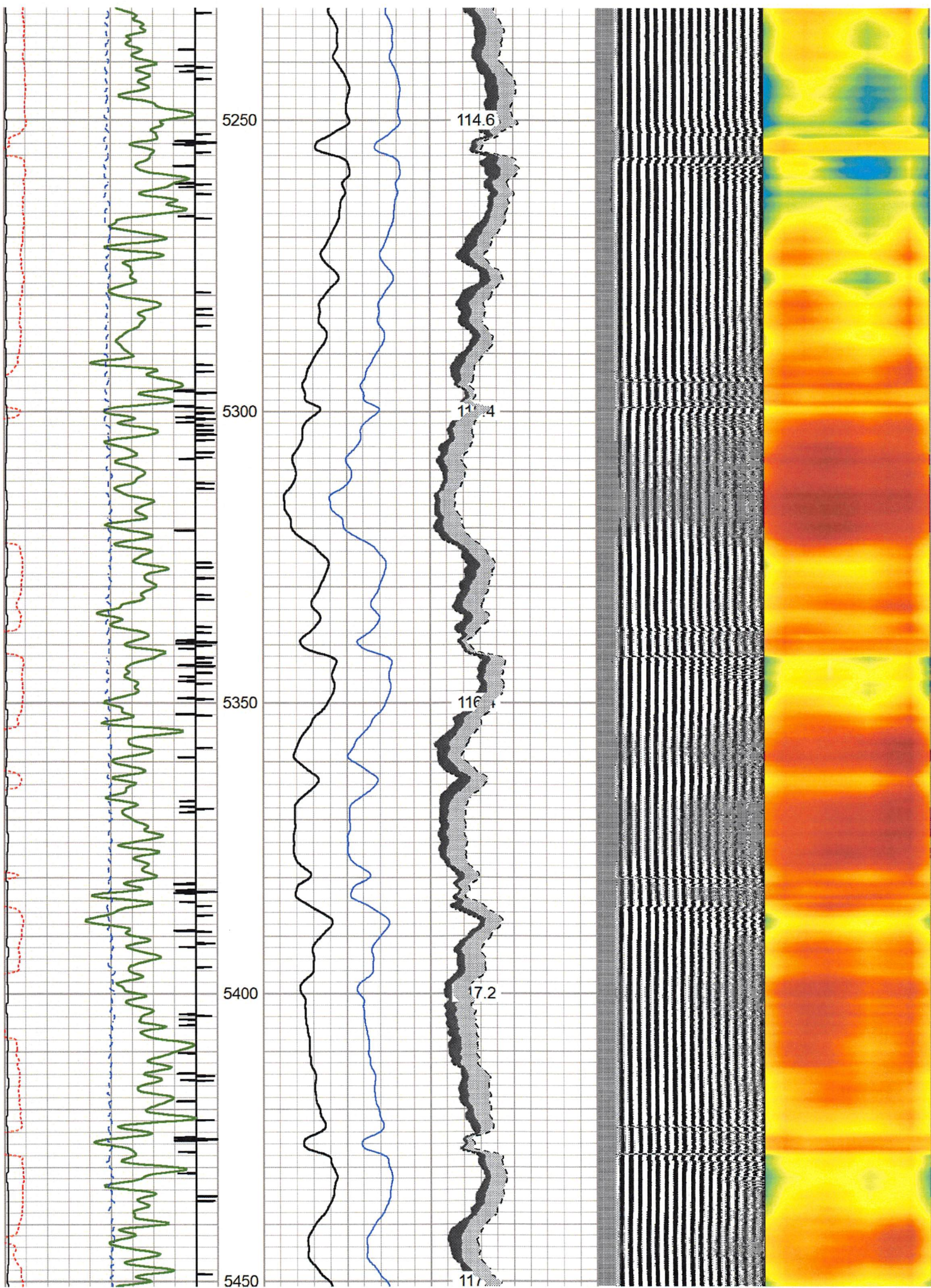


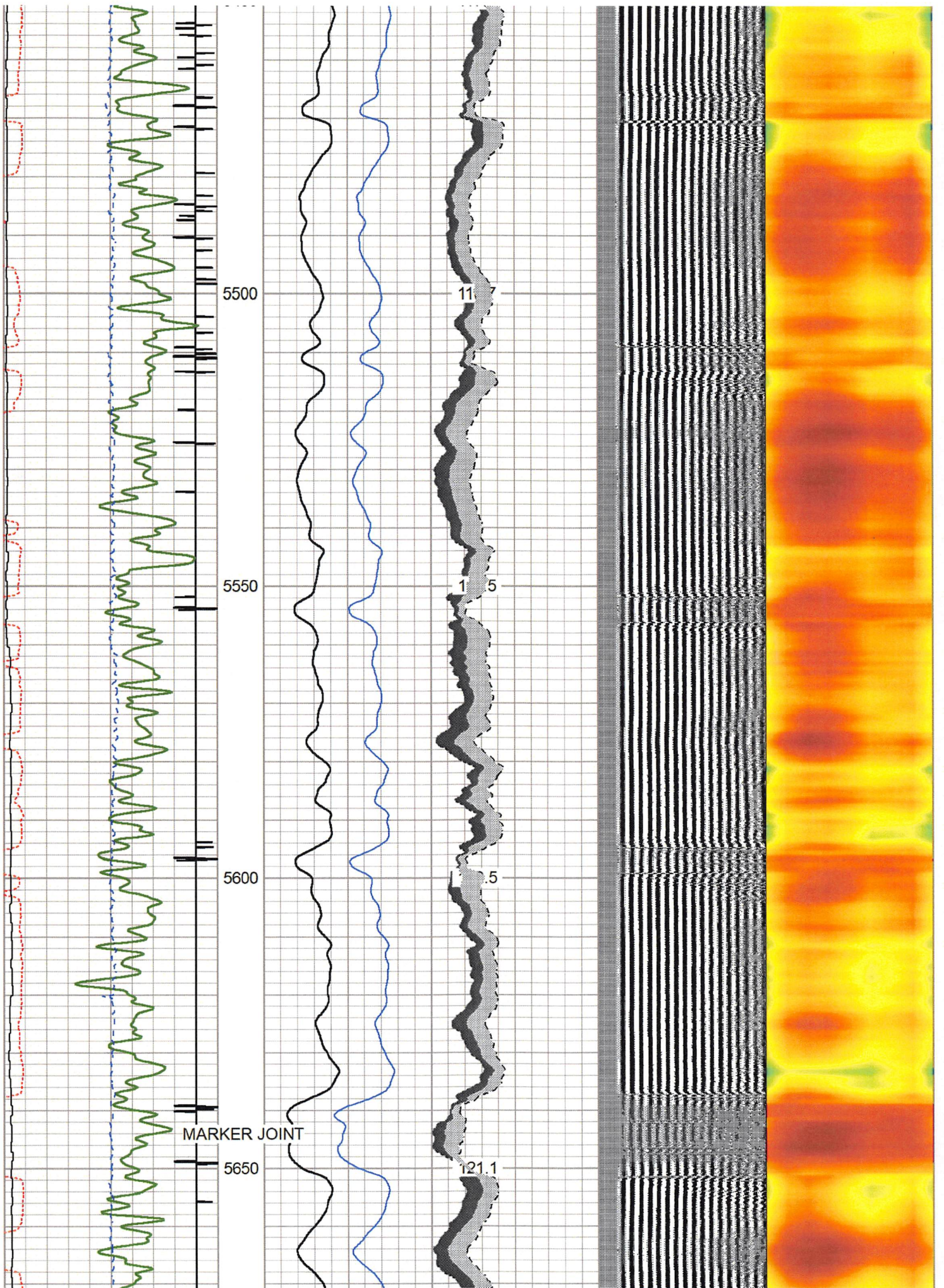


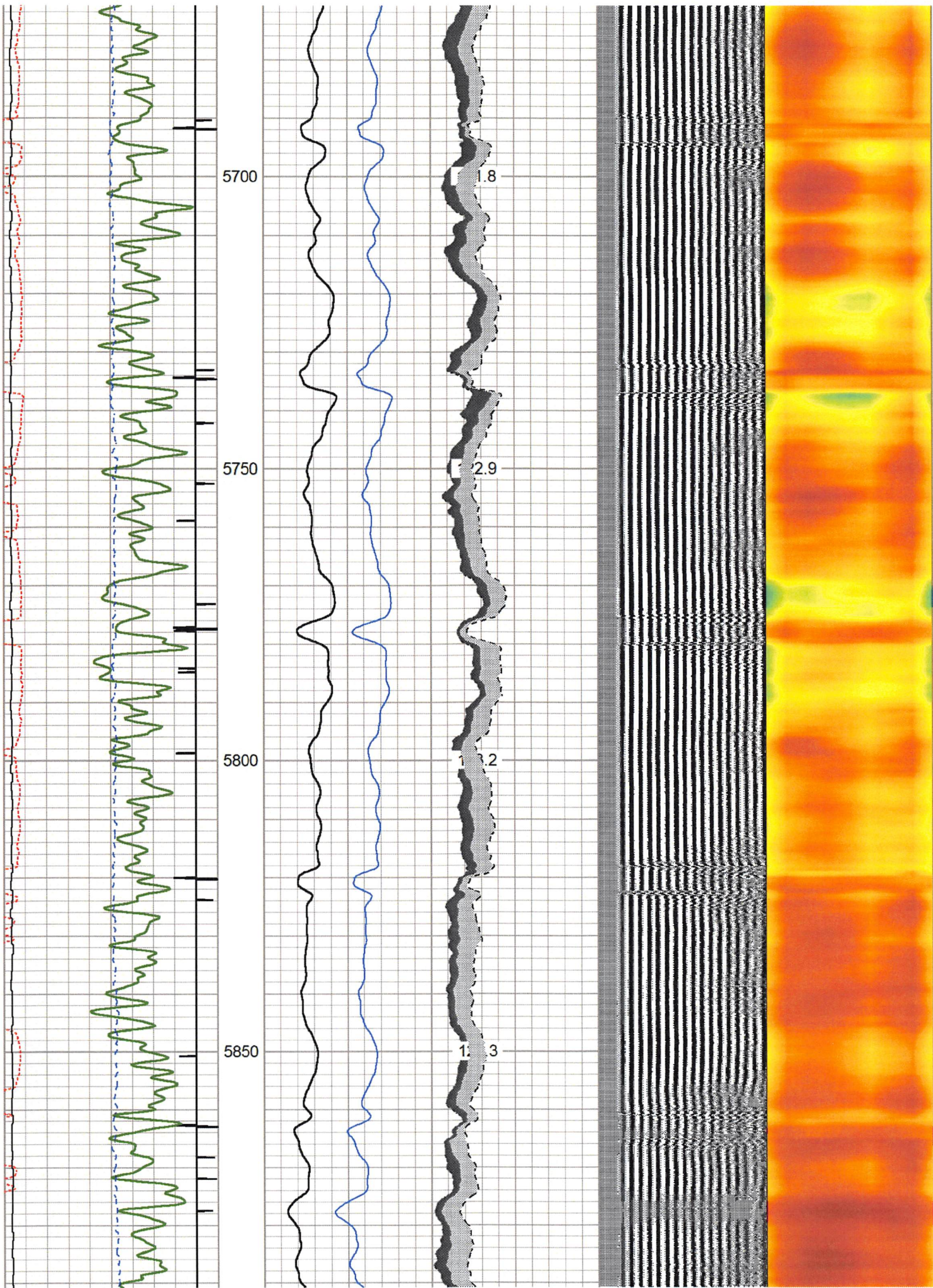


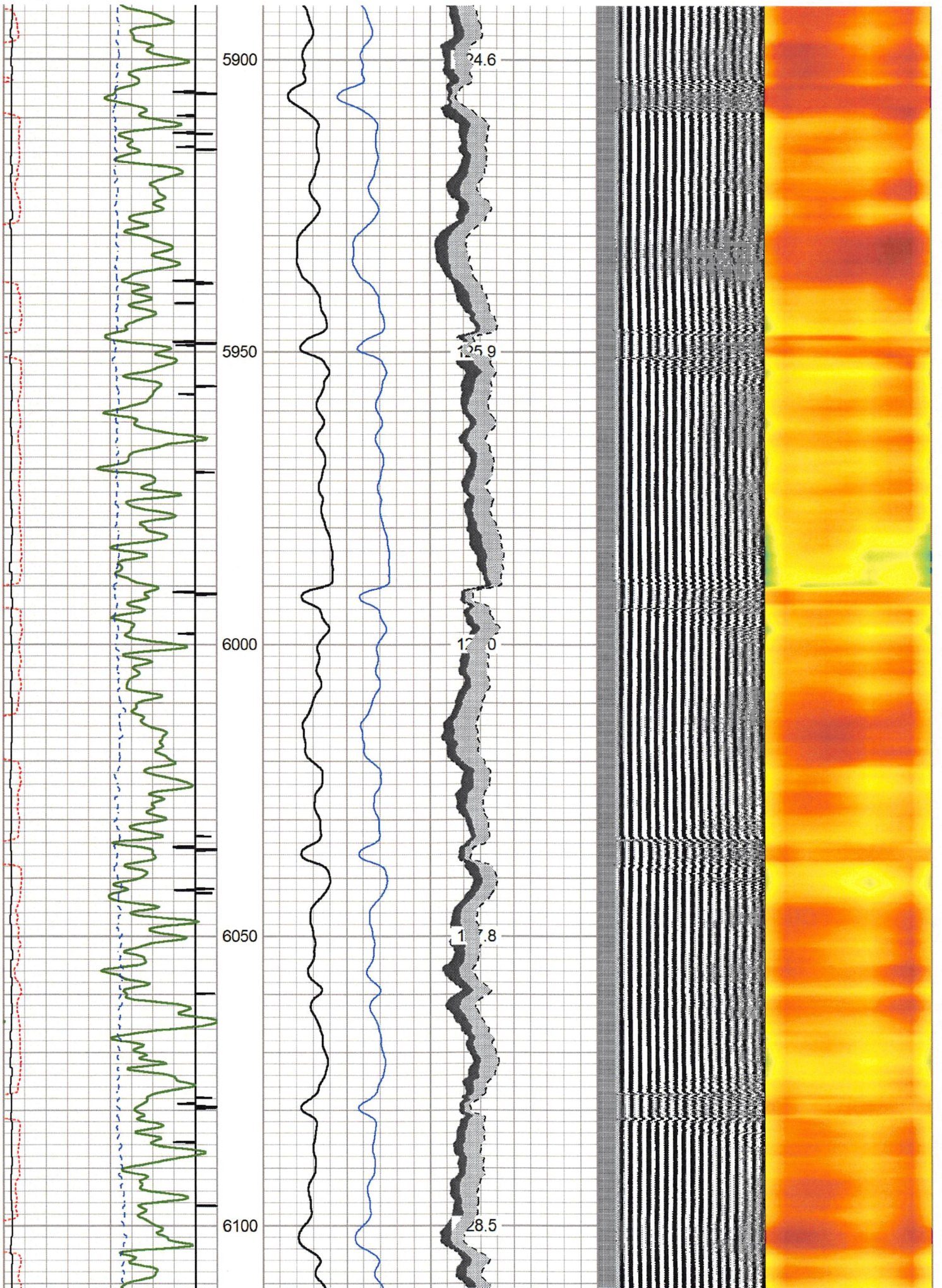


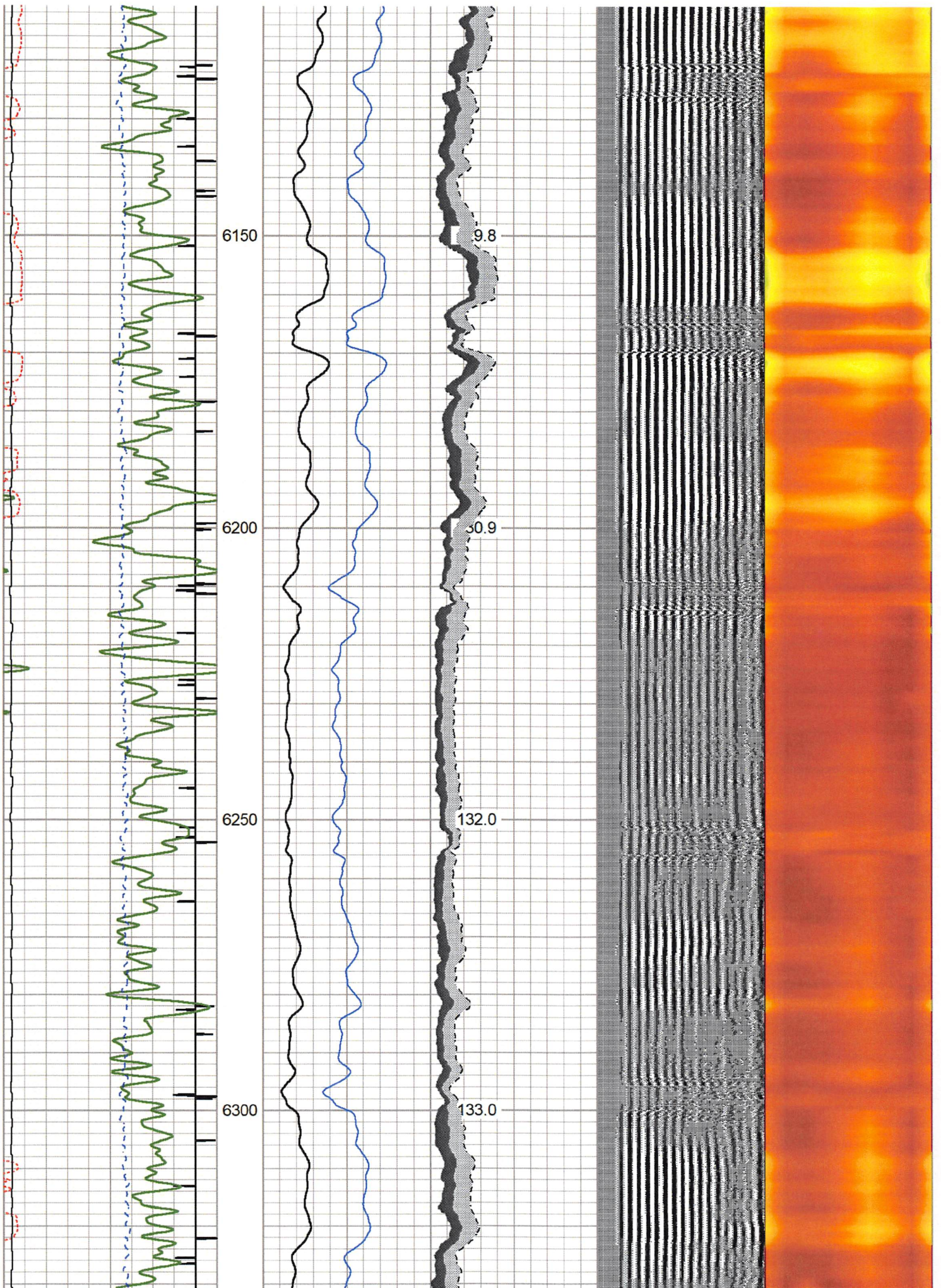


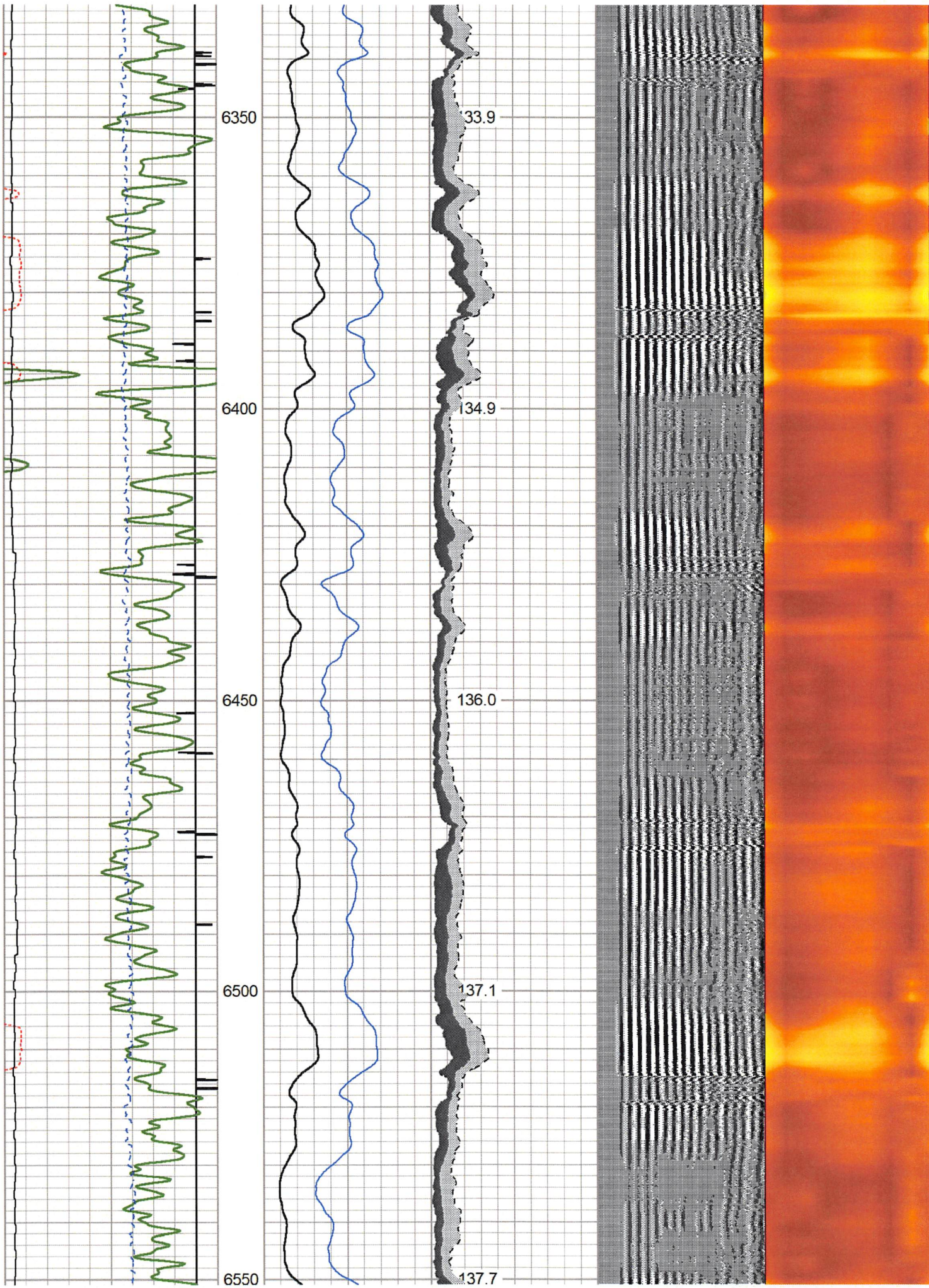


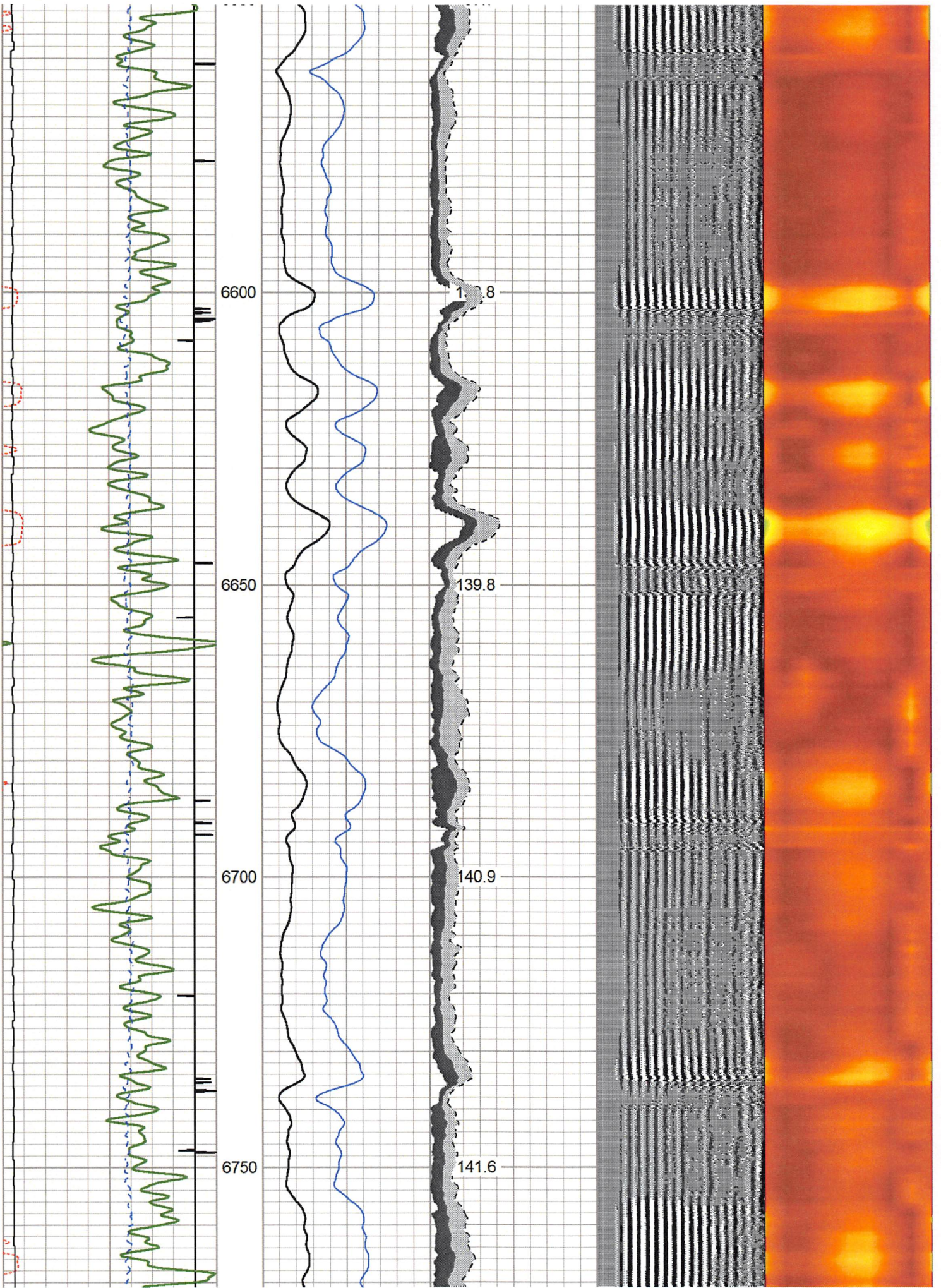


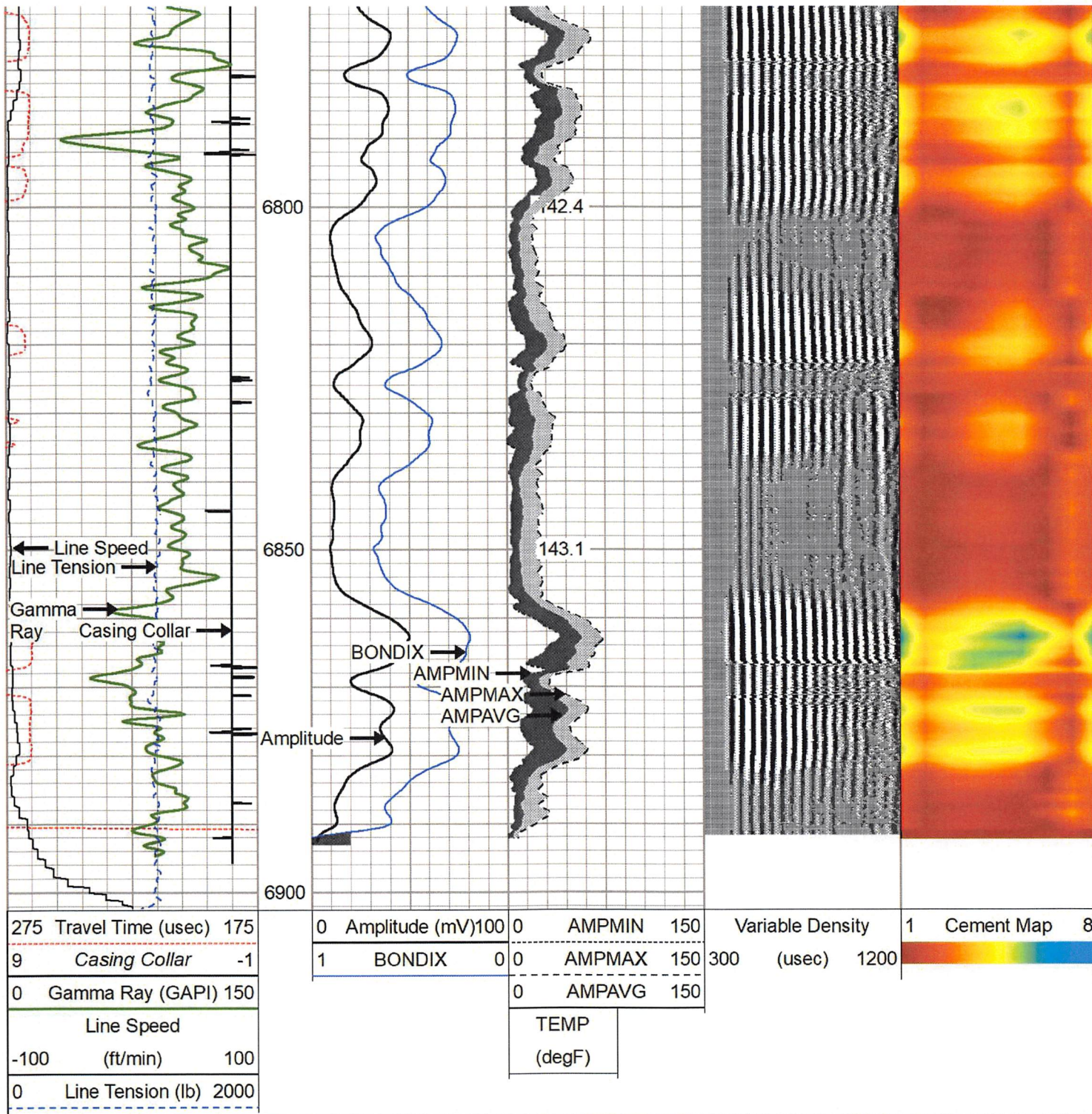












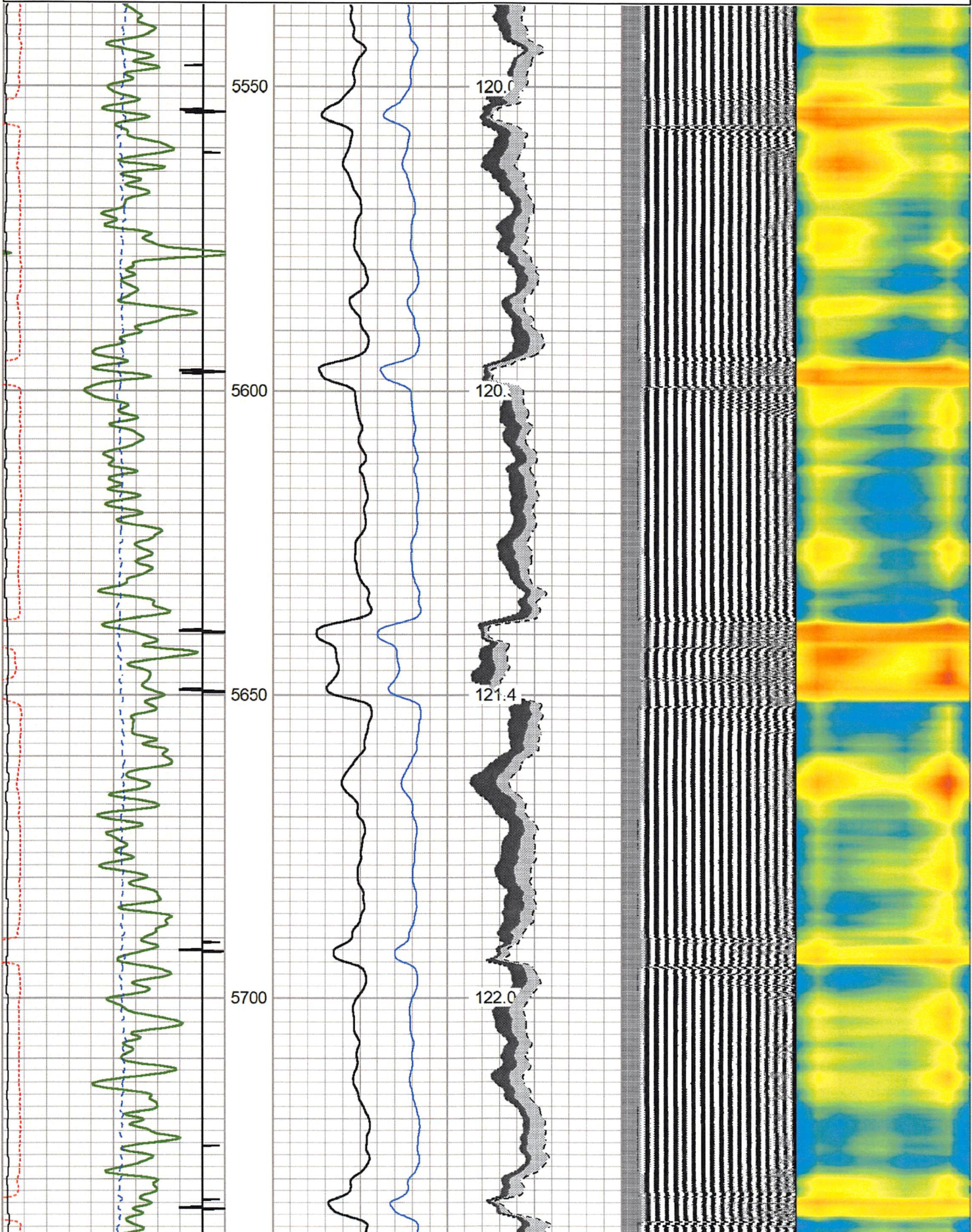

REPEAT PASS 0 PSI

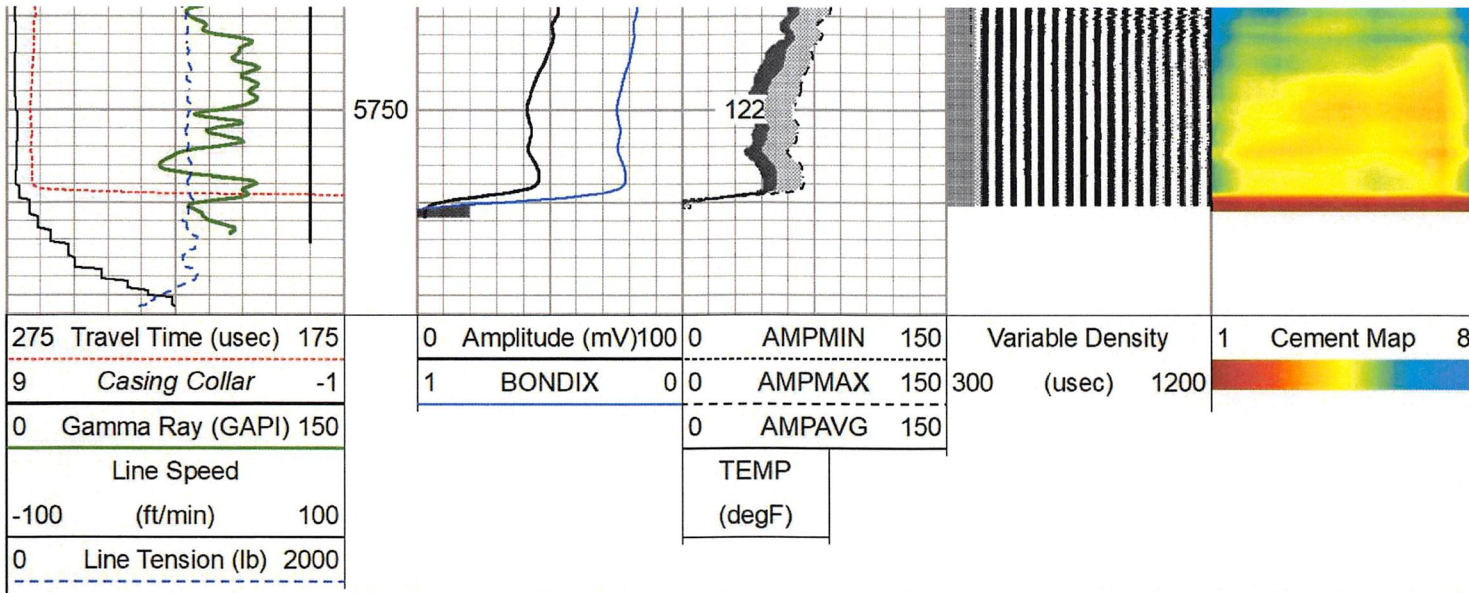
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 Charted by: Depth in Feet scaled 1:240

275	Travel Time (usec)	175	0	Amplitude (mV)	100	0	AMPMIN	150	Variable Density	1	Cement Map	8			
9	Casing Collar	-1	1	BONDIX	0	0	AMPMAX	150					300 (usec)	1200	
0	Gamma Ray (GAPI)	150				0	AMPAVG	150							

Line Speed		
-100	(ft/min)	100
Line Tension (lb)		
0		2000

TEMP
(degF)





Calibration Report

Database File antero_marcllina_1h_5_5_rcbl.db
 Dataset Pathname pass3
 Dataset Creation Tue Apr 25 14:04:04 2023

Gamma Ray Calibration Report

Serial Number: FW1211-86
 Tool Model: Probe
 Performed: Sun Apr 23 07:51:22 2023
 Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps
 Sensitivity: 0.8000 GAPI/cps

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Segmented Cement Bond Log Calibration Report

Serial Number: FW1312-32
 Tool Model: Probe275T
 Calibration Casing Diameter: 5.500 in
 Calibration Depth: 336.000 ft

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Master Calibration, performed Tue Apr 25 10:06:42 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.003	0.319	2.200	71.921	216.437	2.813
CAL	0.700	0.696				
5'	-0.010	0.311	2.200	71.921	217.309	4.381
SUM						
S1	0.042	0.383	0.000	100.000	293.431	-12.454
S2	-0.011	0.259	0.000	100.000	369.925	4.172
S3	-0.009	0.313	0.000	100.000	310.432	2.774
S4	-0.010	0.311	0.000	100.000	311.625	3.058
S5	-0.011	0.314	0.000	100.000	307.635	3.447
S6	-0.010	0.328	0.000	100.000	295.314	3.097
S7	-0.011	0.342	0.000	100.000	282.892	3.177
S8	-0.009	0.351	0.000	100.000	278.053	2.525

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.700	0.696	1.000	0.000

Air Zero Calibration, performed Tue Apr 25 04:27:20 2023:

	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)
			CABLE_HEADS-TITAN_1_7/16	1.04	1.44	4.00
			Centralizer-2.75_Overbody	1.67	3.12	5.00
Temp	14.10		RBT-Probe275T (FW1312-32) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00
WVFS8	11.86					
WVFS7	11.86					
WVFS6	11.86					
WVFS5	11.86					
WVFS4	11.86					
WVFS3	11.86					
WVFS2	11.86					
WVFS1	11.86		Centralizer-2.75_Overbody	1.67	3.12	5.00
WVF3FT	11.86					
WVF5FT	10.86					
HeadVolt	7.61					
WVFCAL	7.61					
CCI	6.71					


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MINATTN db/ft 0	PPT usec 0
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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

	Company	Antero		
	Well	Marcellina 1H		
	Field	Rabbit Ears		
	County	Tyler		
	State	WV	Country	USA

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