



Radial Cement Bond
Variable Density Log
W/CCL/Gamma Ray/Temp

Company Antero Resources Well Journeyman Trader 1H Field Utica County Wetzel State WV	Company Antero Resources		Well Journeyman Trader 1H		Field Utica		County Wetzel		State WV	
	Location:				API #: 4710303459		Other Services			
	SEC		TWP		RGE		Elevation			
	Permanent Datum		Ground Level		Elevation		K.B.			
Log Measured From		Kelly Bushing 30' A.P.D.				D.F.				
Drilling Measured From		Kelly Bushing				G.L.				

Date	07-May-2022
Run Number	One
Depth Driller	
Depth Logger	7,170'
Bottom Logged Interval	7,206'
Top Log Interval	Surface
Open Hole Size	
Type Fluid	Water
Density / Viscosity	
Max. Recorded Temp.	145 Deg.F.
Estimated Cement Top	5,394'
Time Well Ready	11:15
Time Logger on Bottom	11:50
Equipment Number	104 (P2)(G1)
Location	Charleroi, PA
Recorded By	Matt McNally
Witnessed By	Keith

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Conductor String				
Surface String				
Intermediate String				
Intermediate String				
Production String	5 1/2"	23#	Surface	

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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

Primary Log on Well

Log Correlated to Kelly Bushing 30' Above Ground Level
Marker Joint at 6,432'-6,442'

100 % Free Pipe= 71.9 mv
100 % Cement =3.4mv

Thank You For Choosing Nine Energy Service. Charleroi, PA

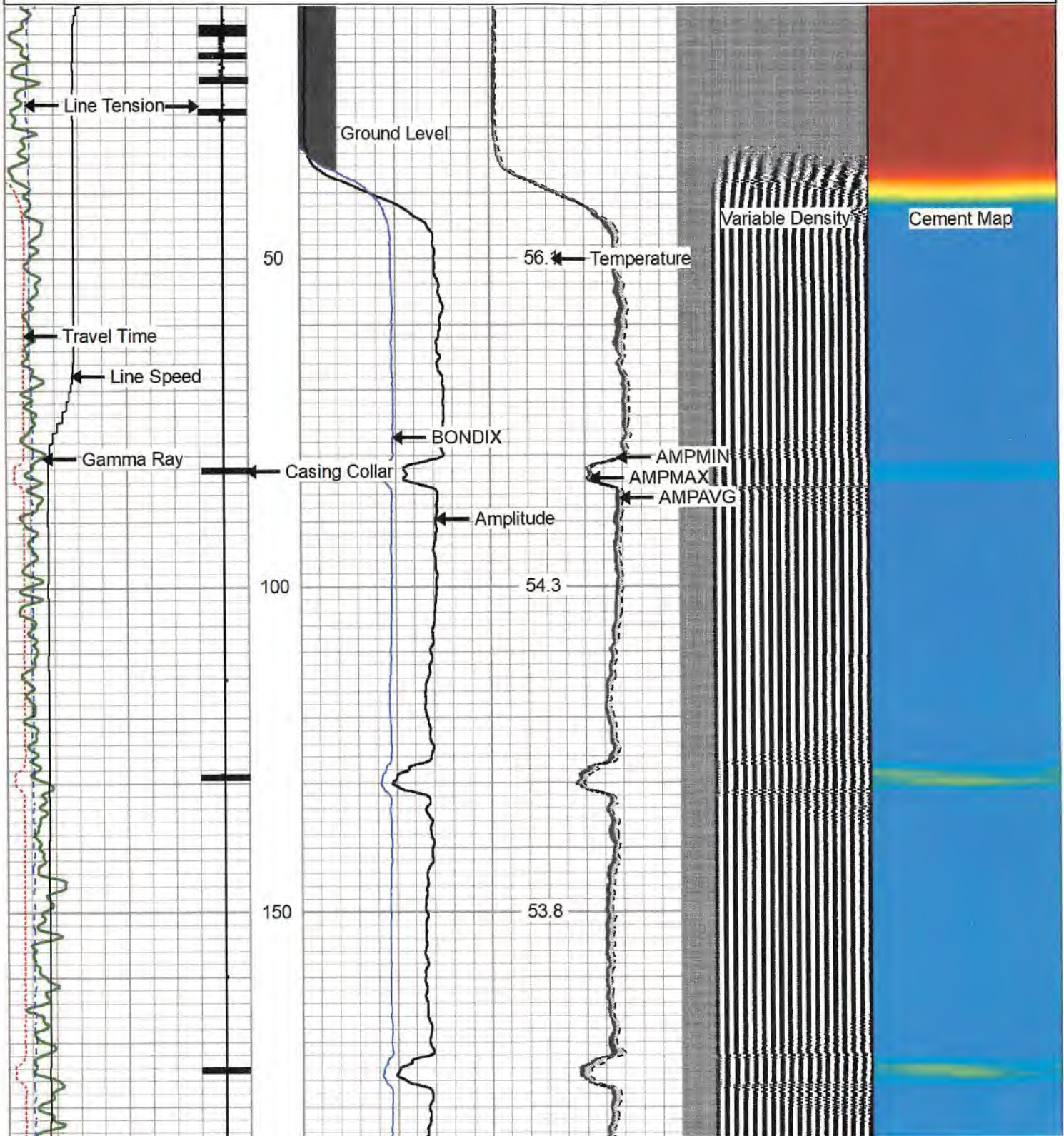


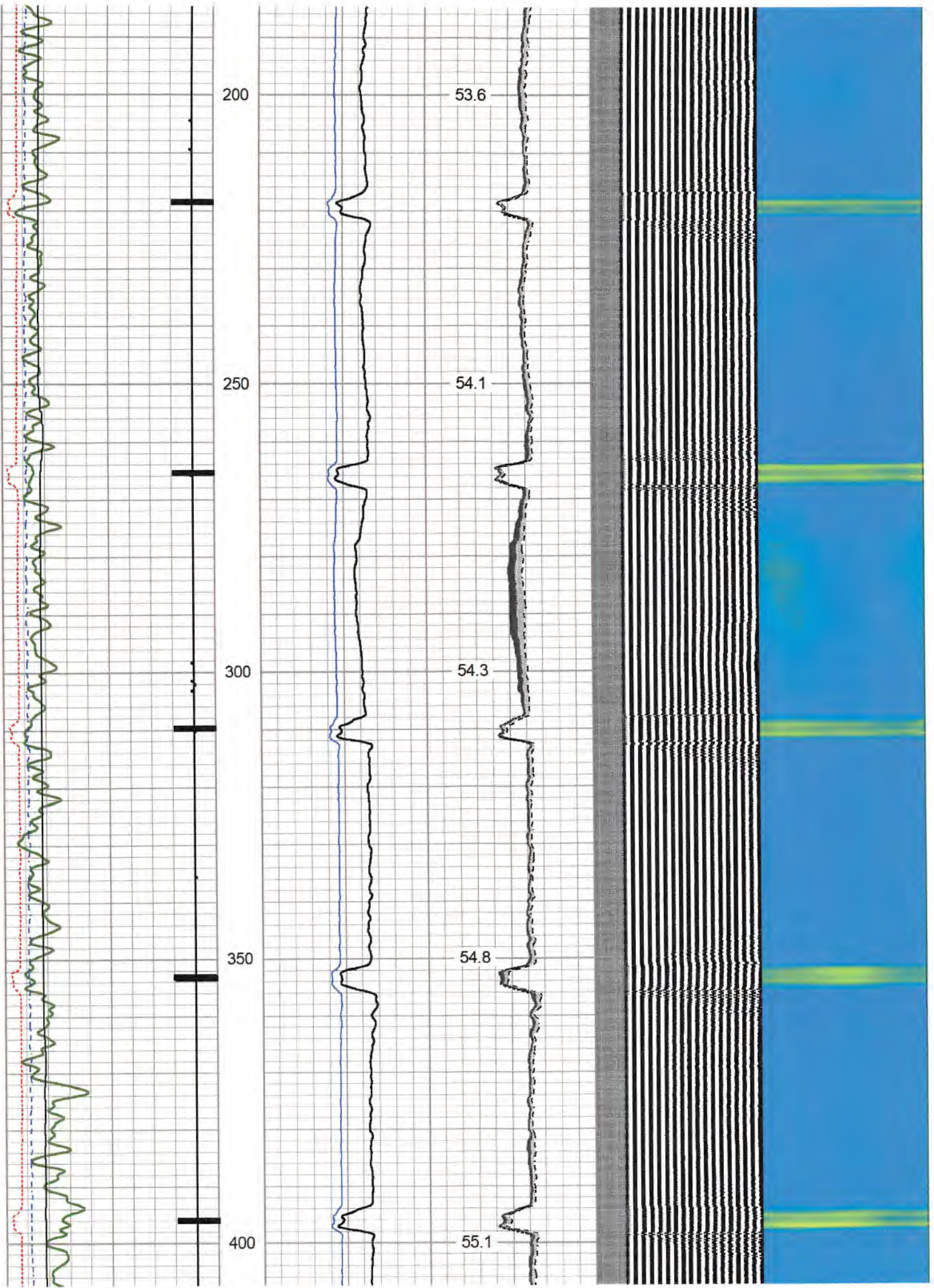
Main Pass 1,500 PSI

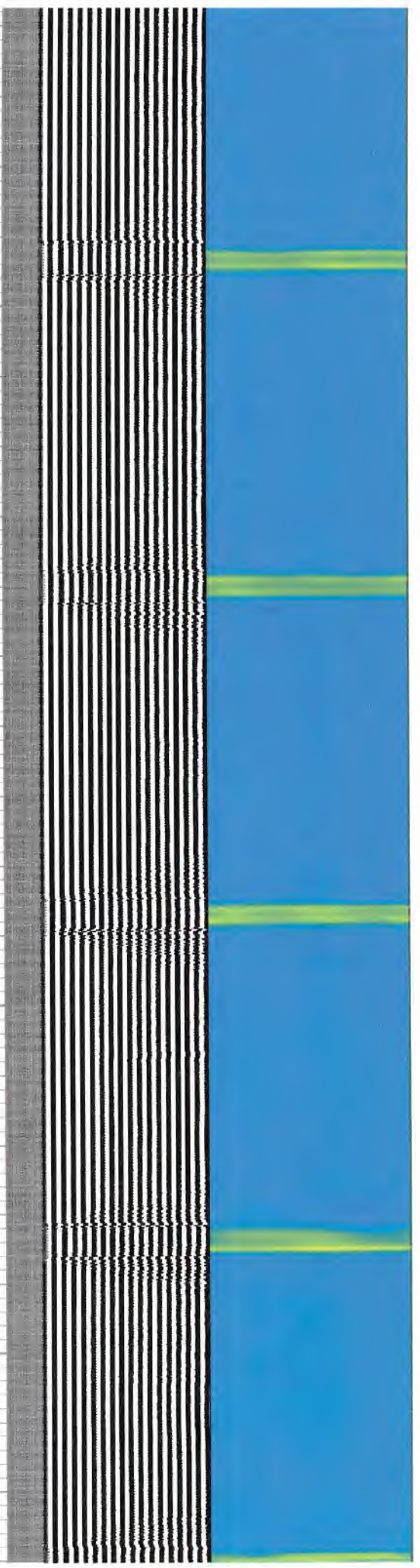
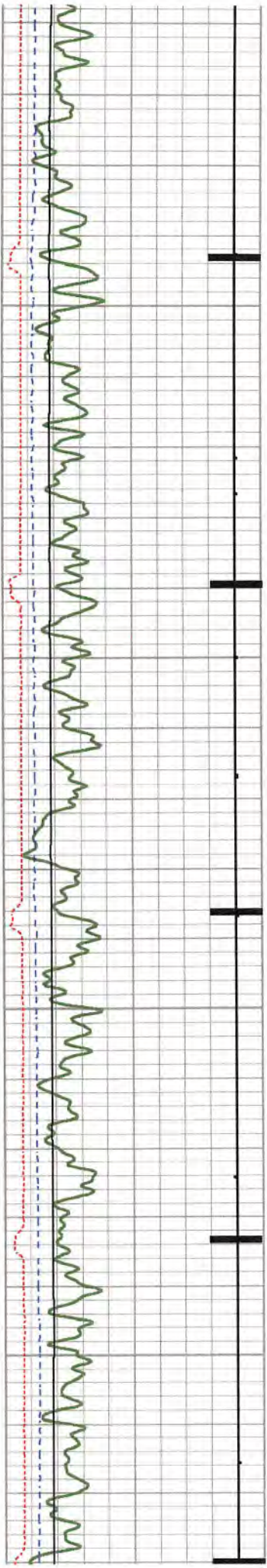
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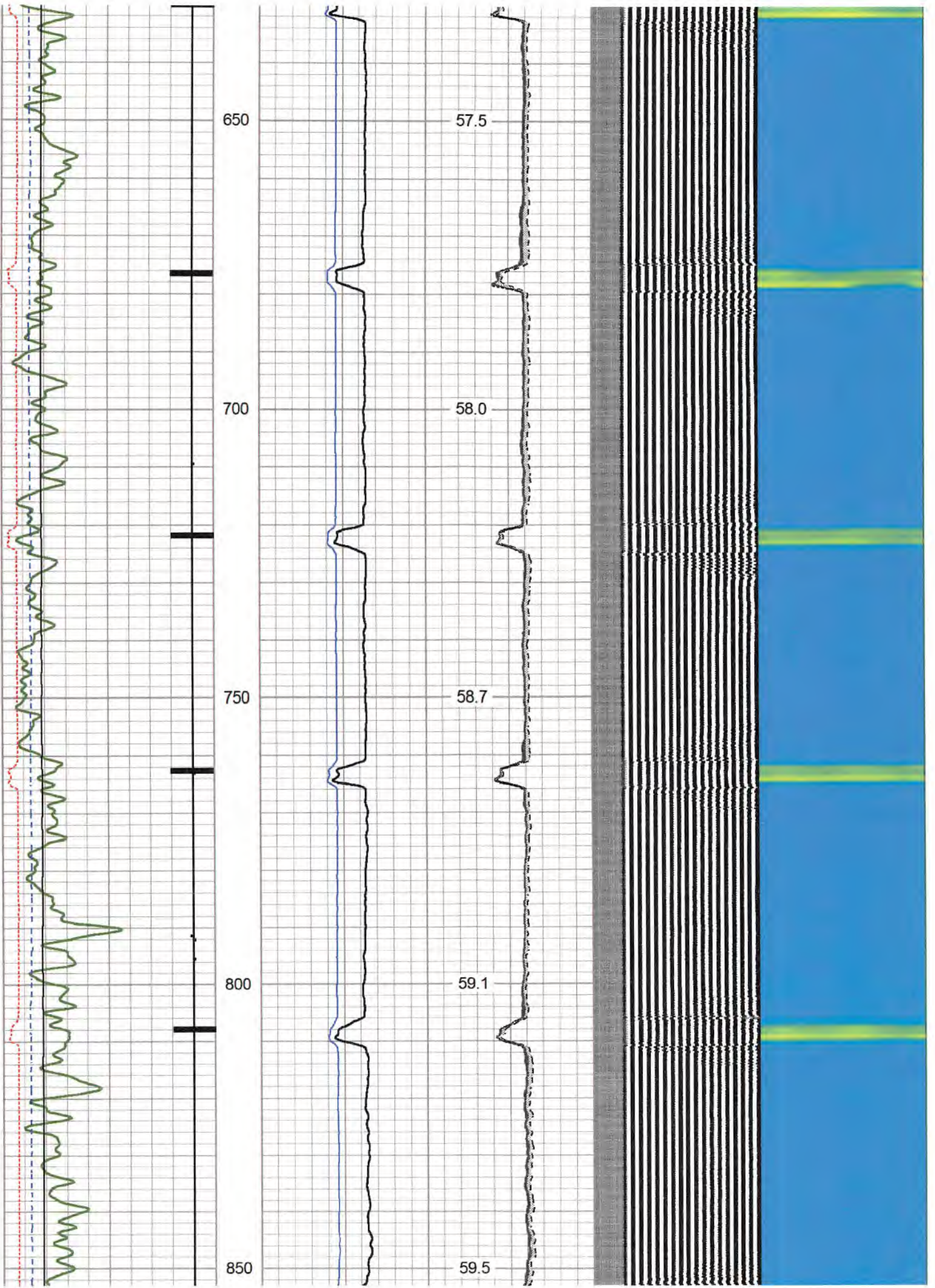
Database File antero_trader_1h_rcbl_08_may2022.db
 Dataset Pathname trader_1h/run1/pass7
 Presentation Format rcbl-bond index 1020
 Dataset Creation Sun May 08 15:18:06 2022
 Charted by Depth in Feet scaled 1:240

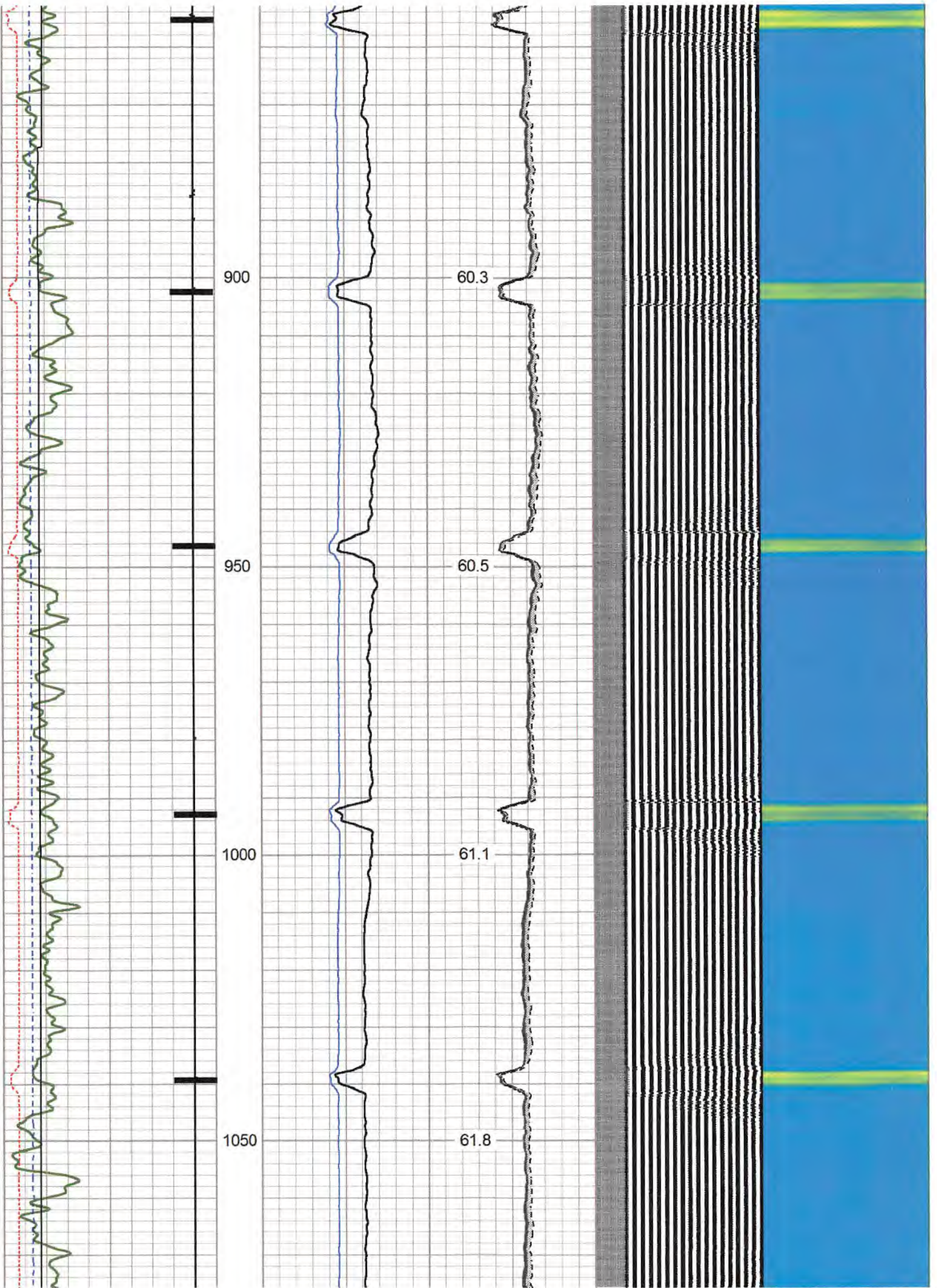
270 Travel Time (usec) 160	0 Amplitude (mV)100	-5 AMPMIN 150	Variable Density	1 Cement Map 8
Casing Collar	1 BONDIX 0	-5 AMPMAX 150	200 (usec) 1200	
0 Gamma Ray (GAPI) 150		-5 AMPAVG 150		
Line Speed		TEMP		
-200 (ft/min) 200		(degF)		
0 Line Tension (lb) 3000				

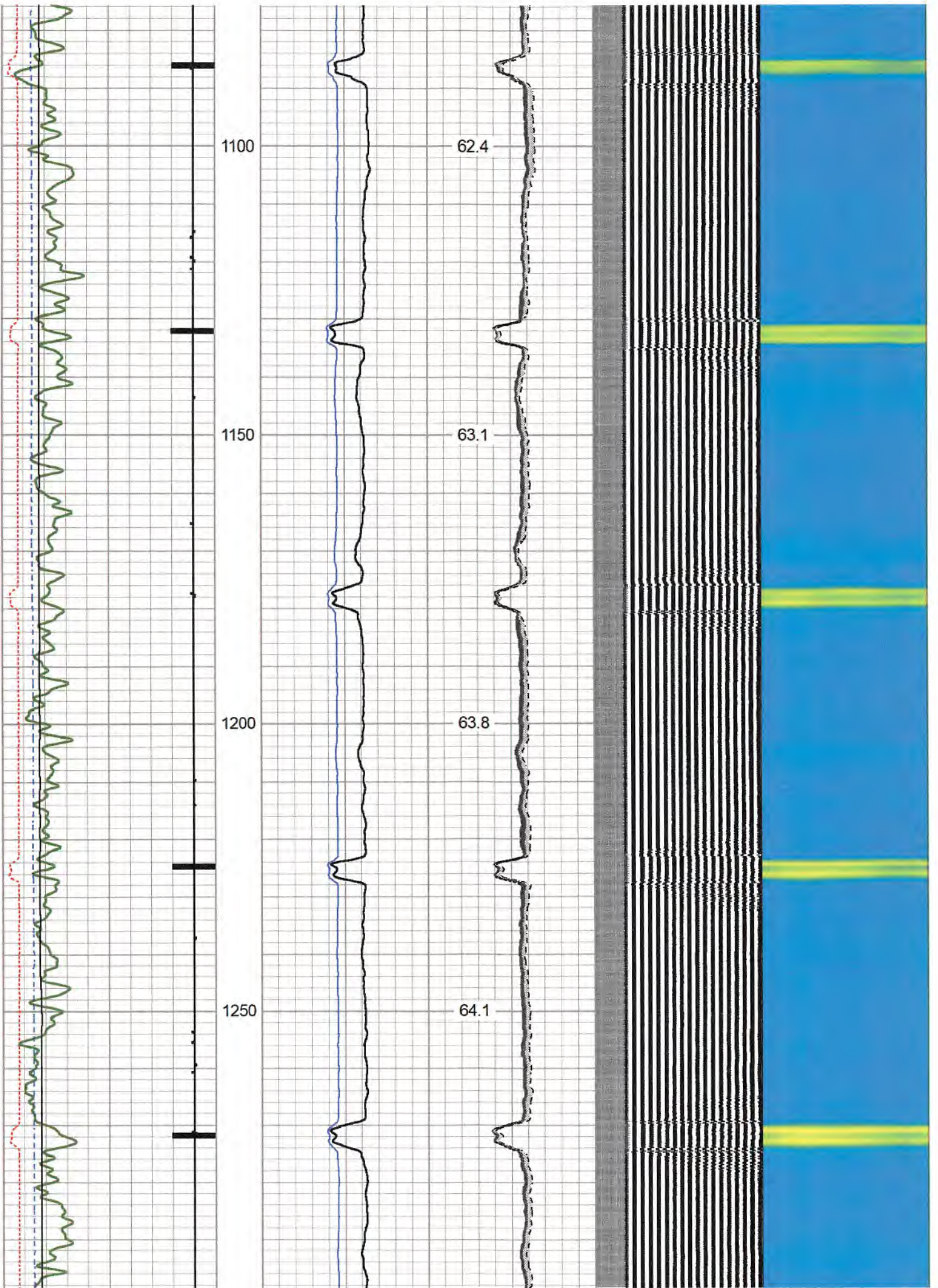


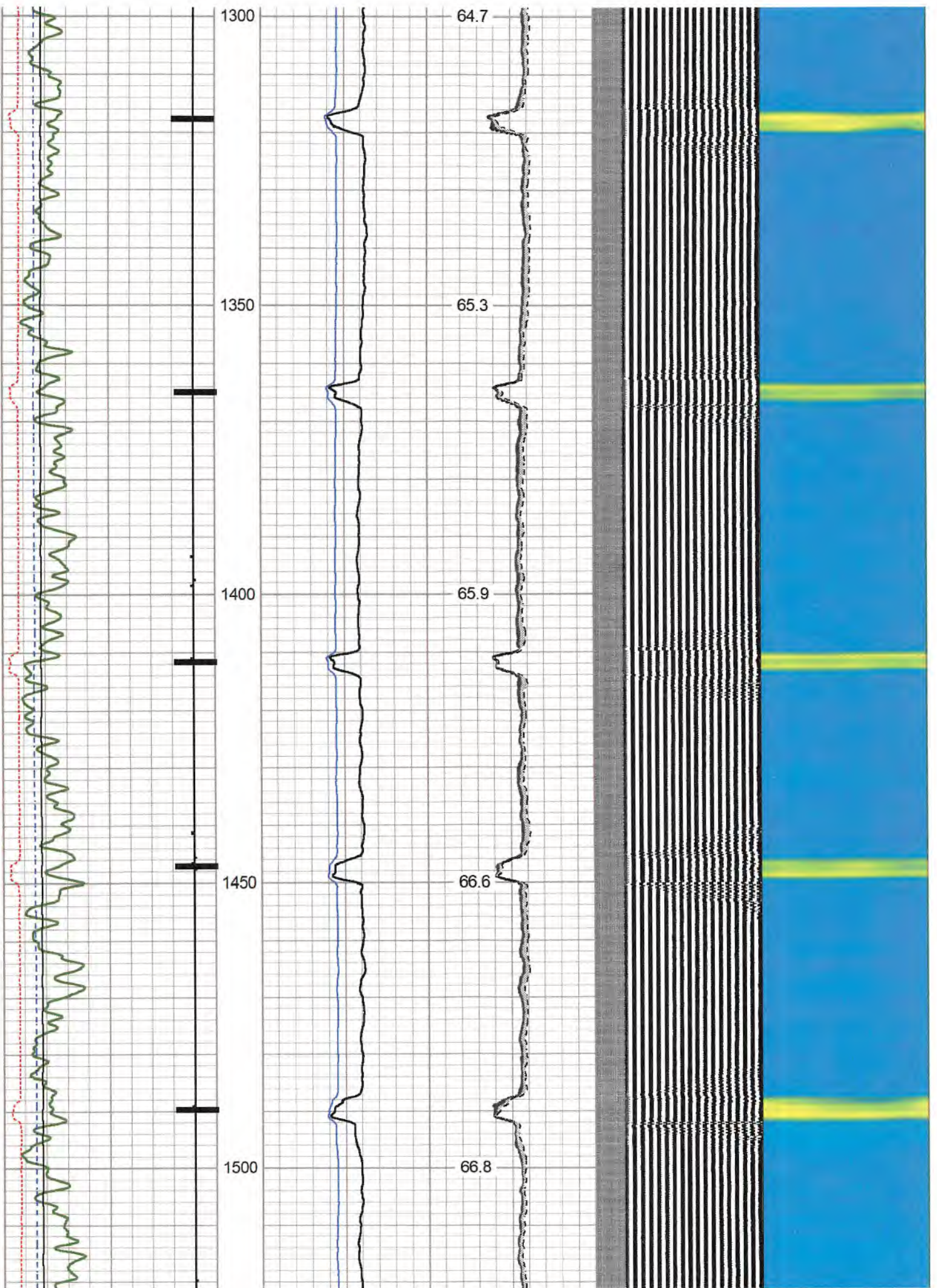


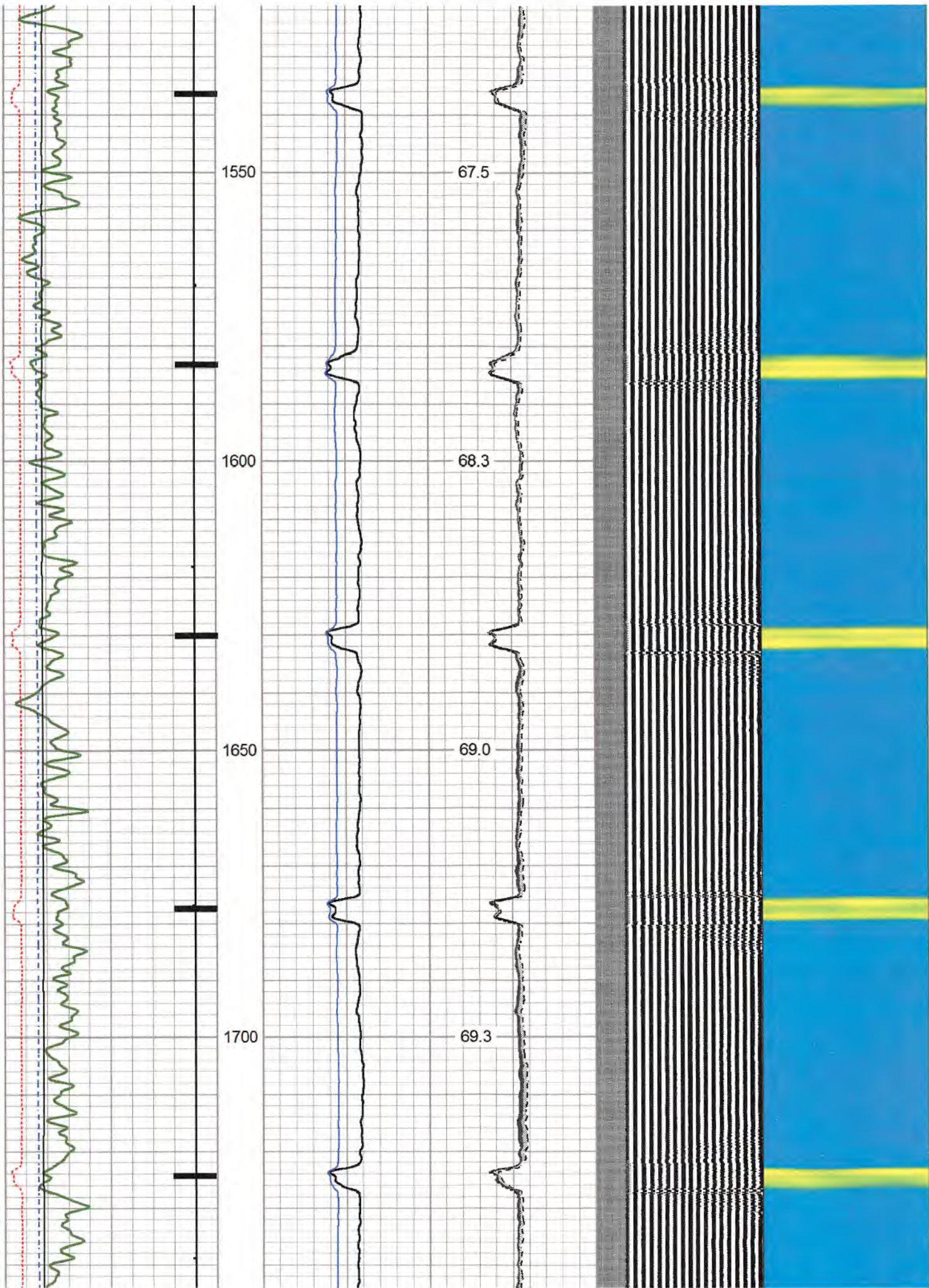


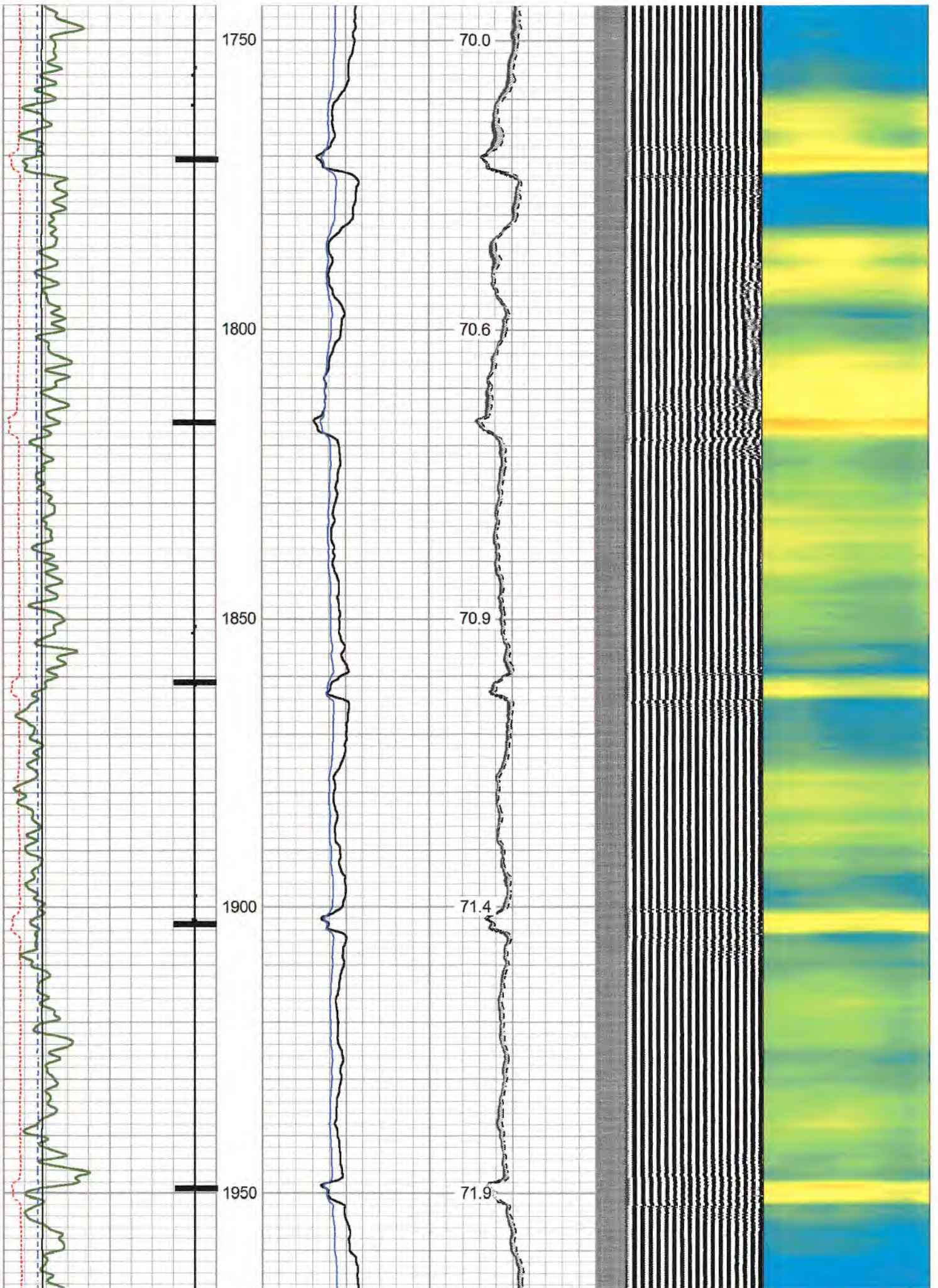


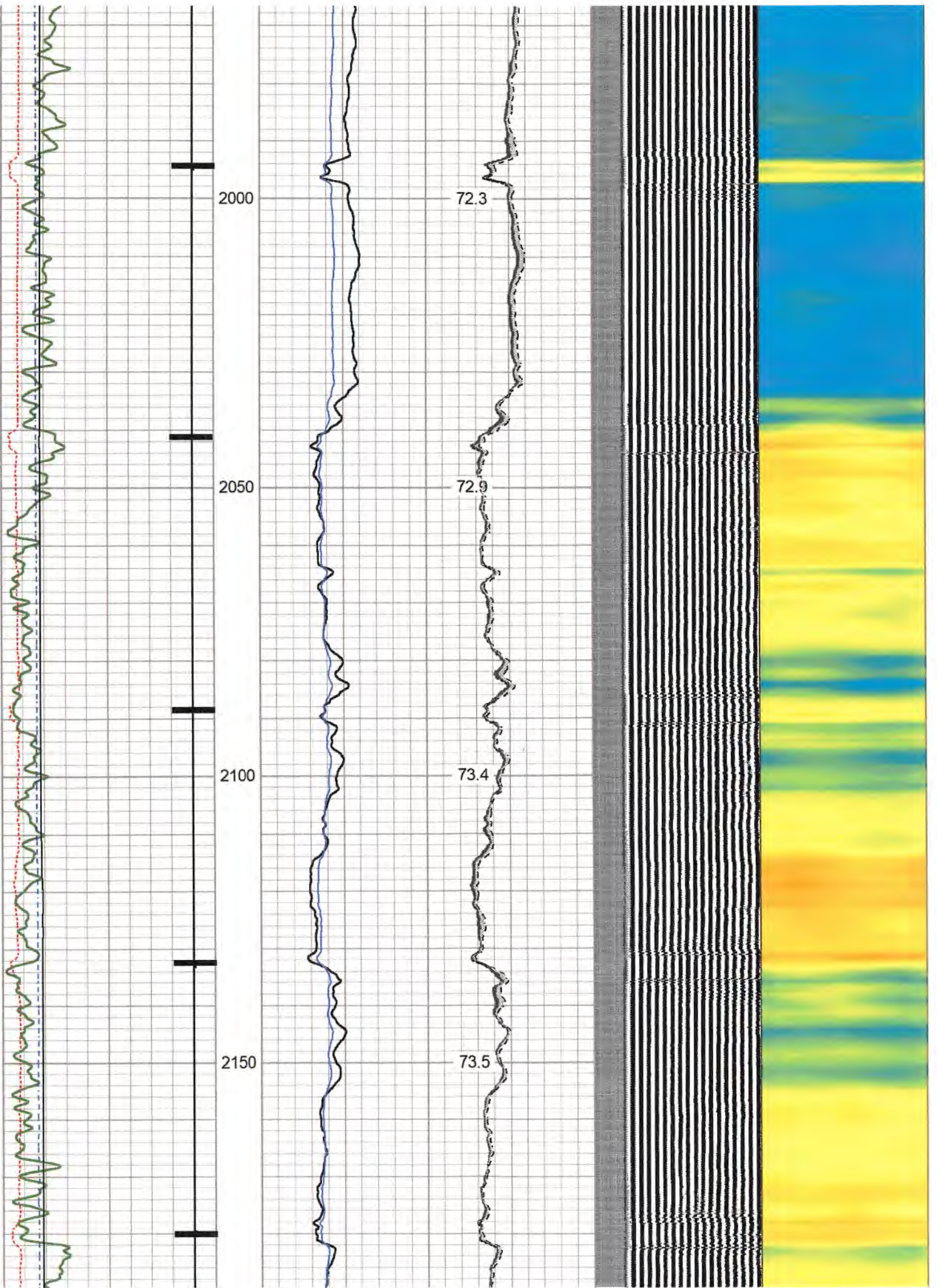


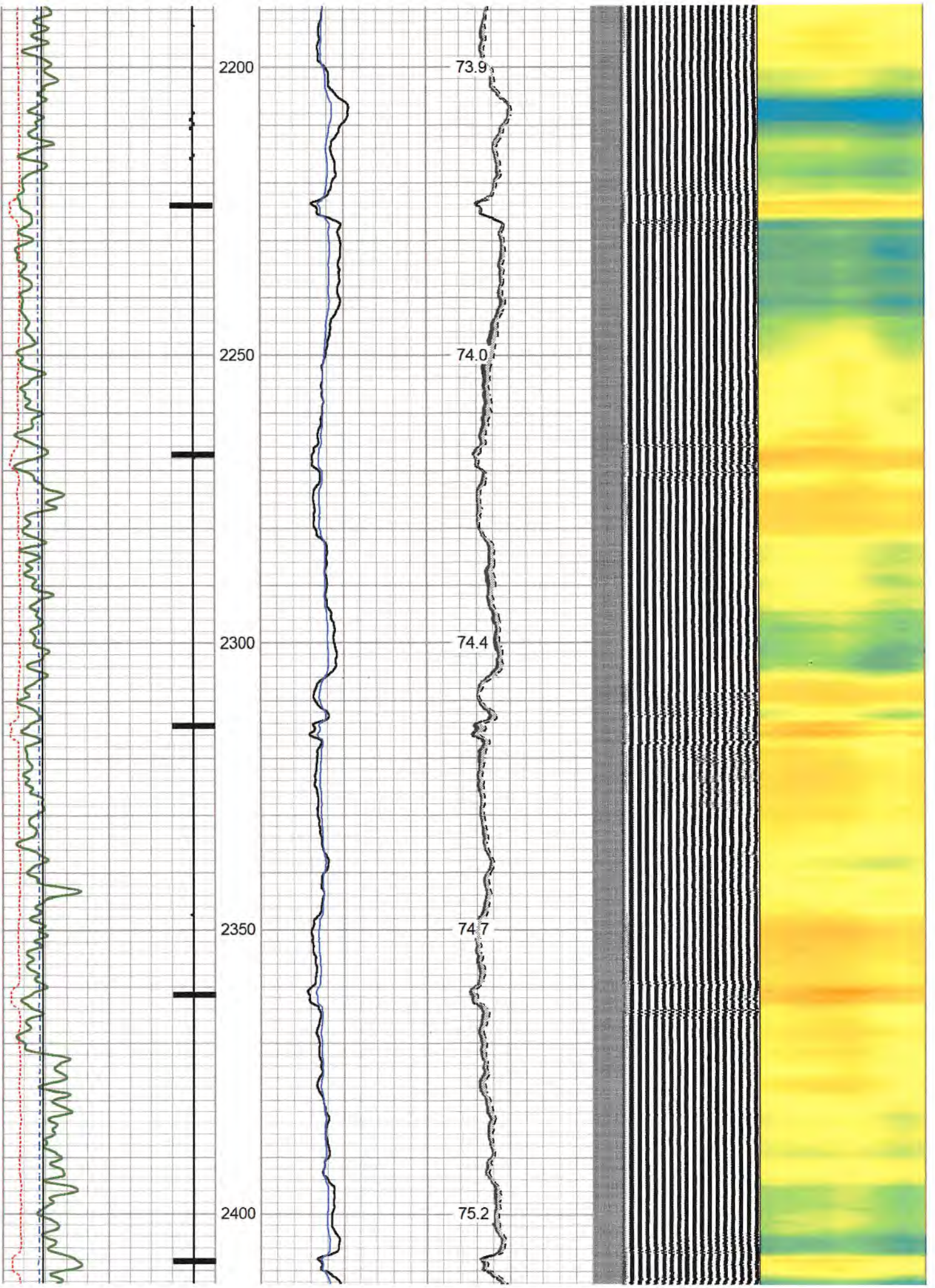


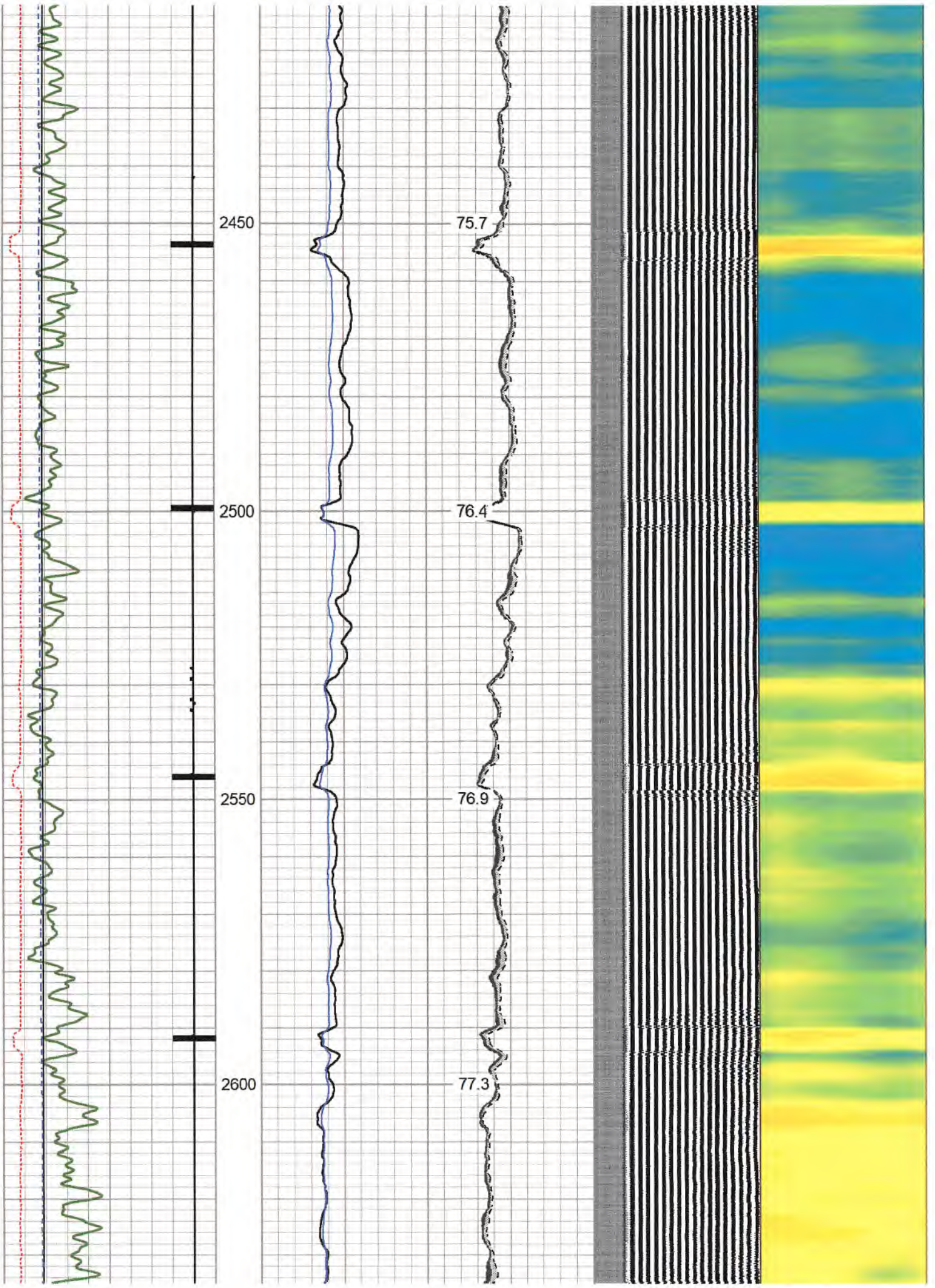


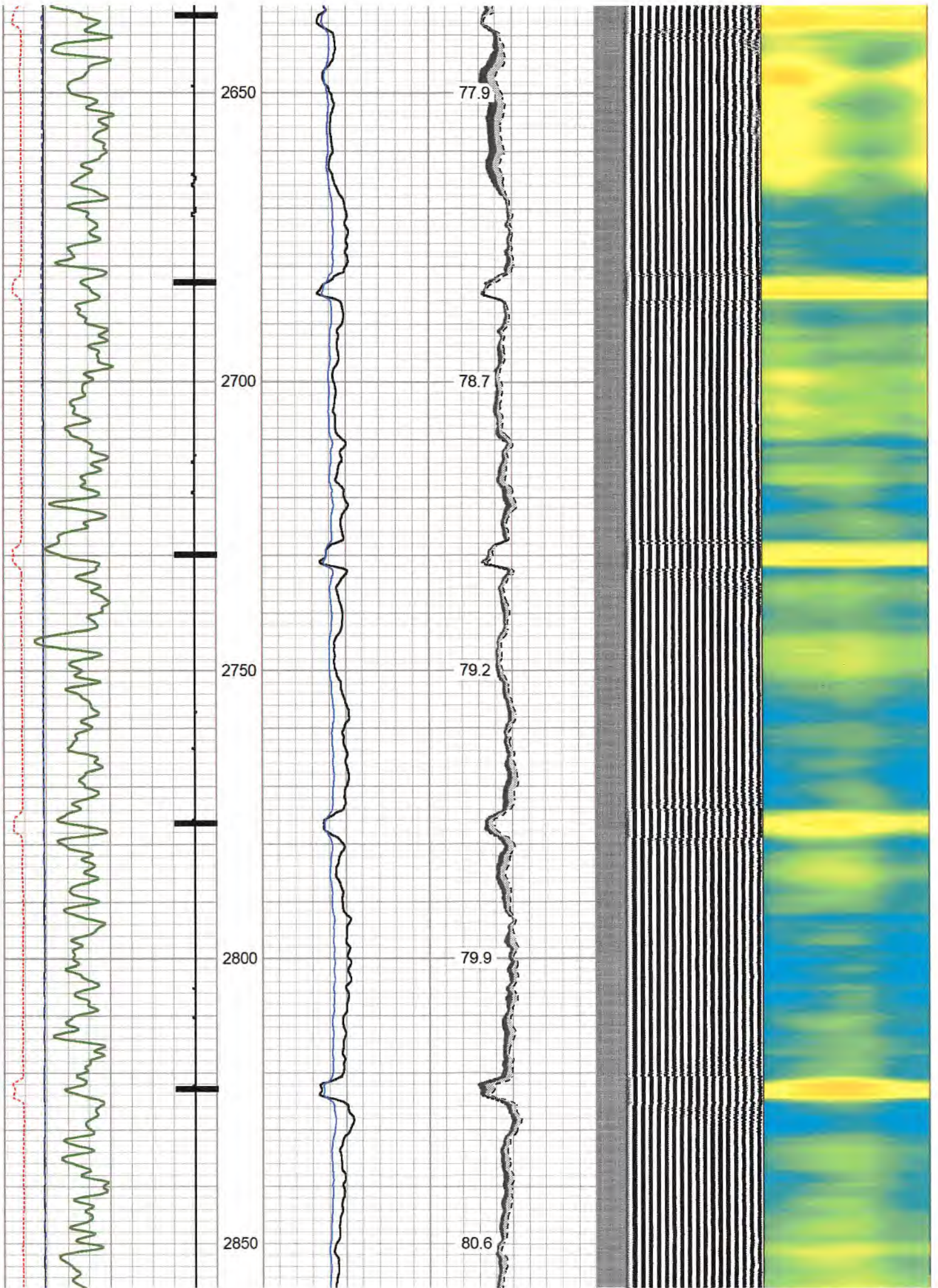


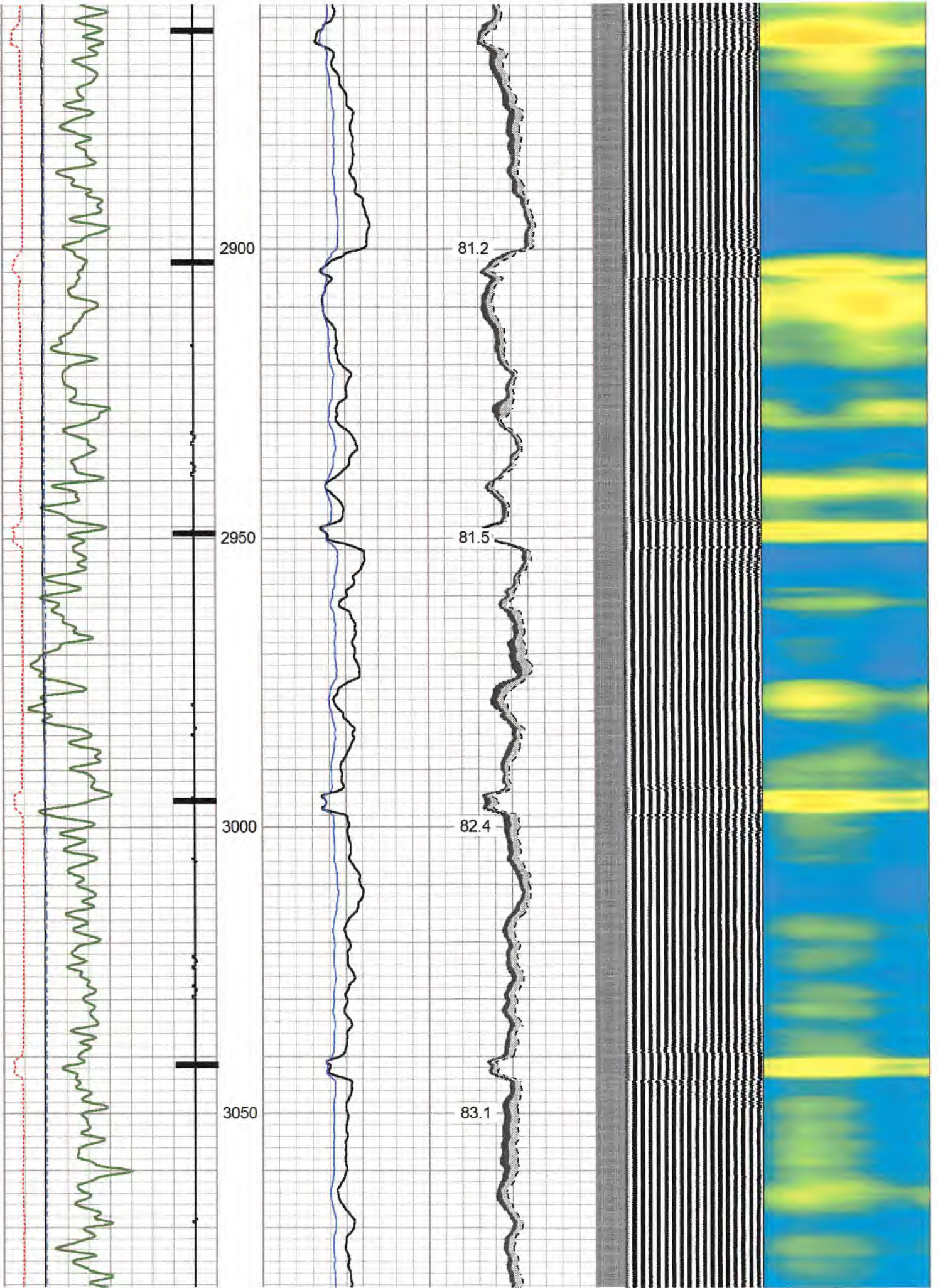


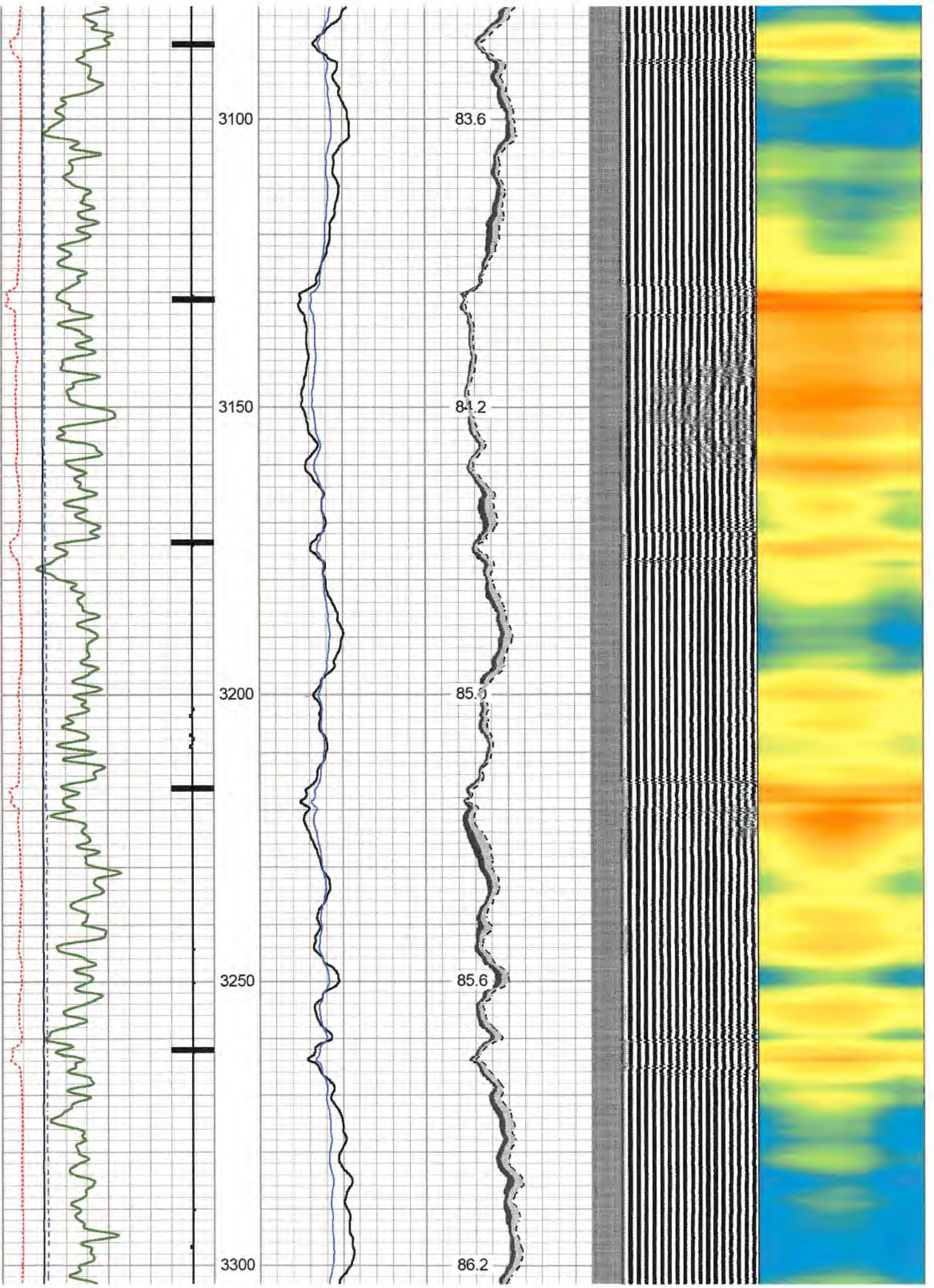


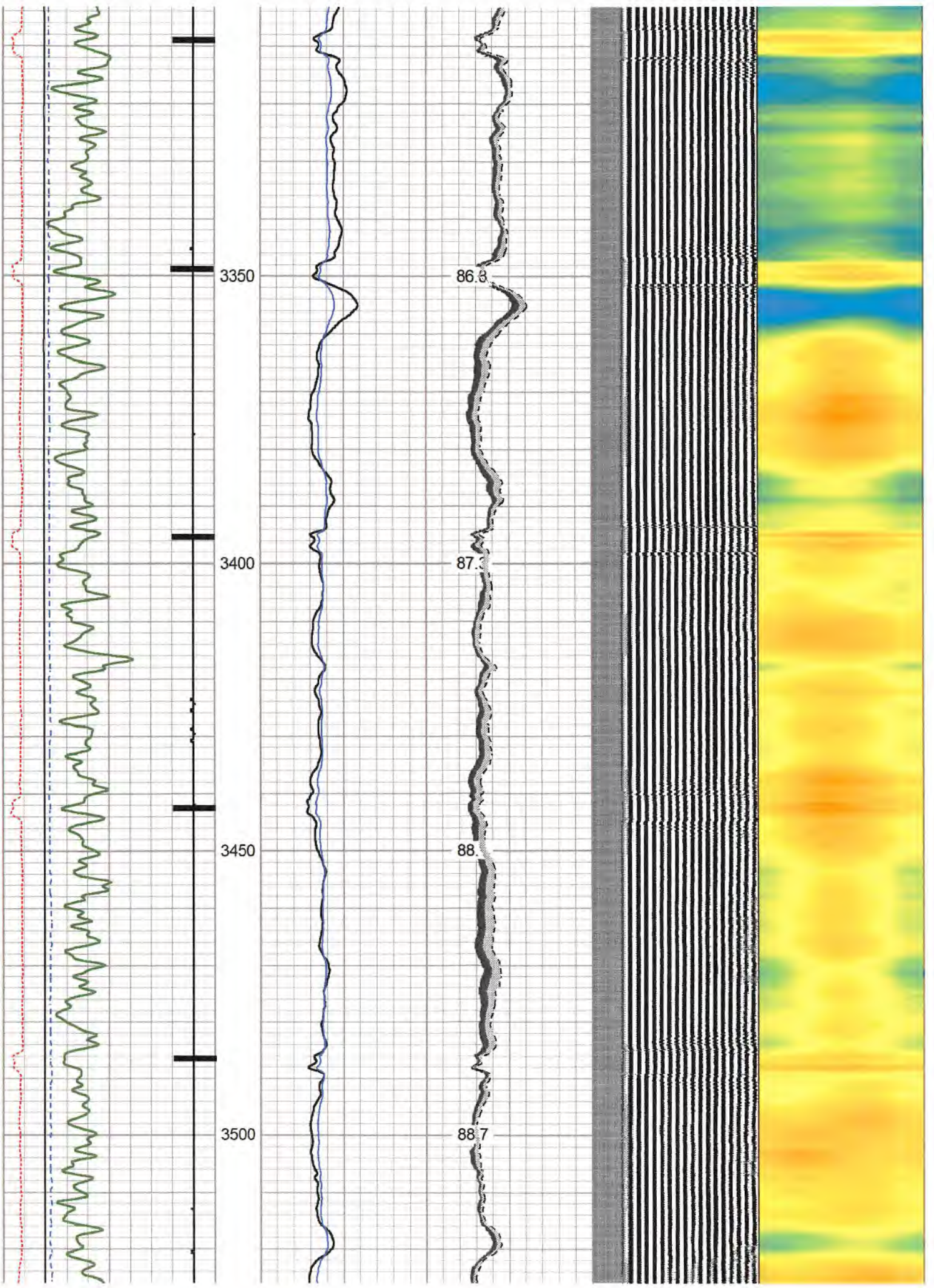


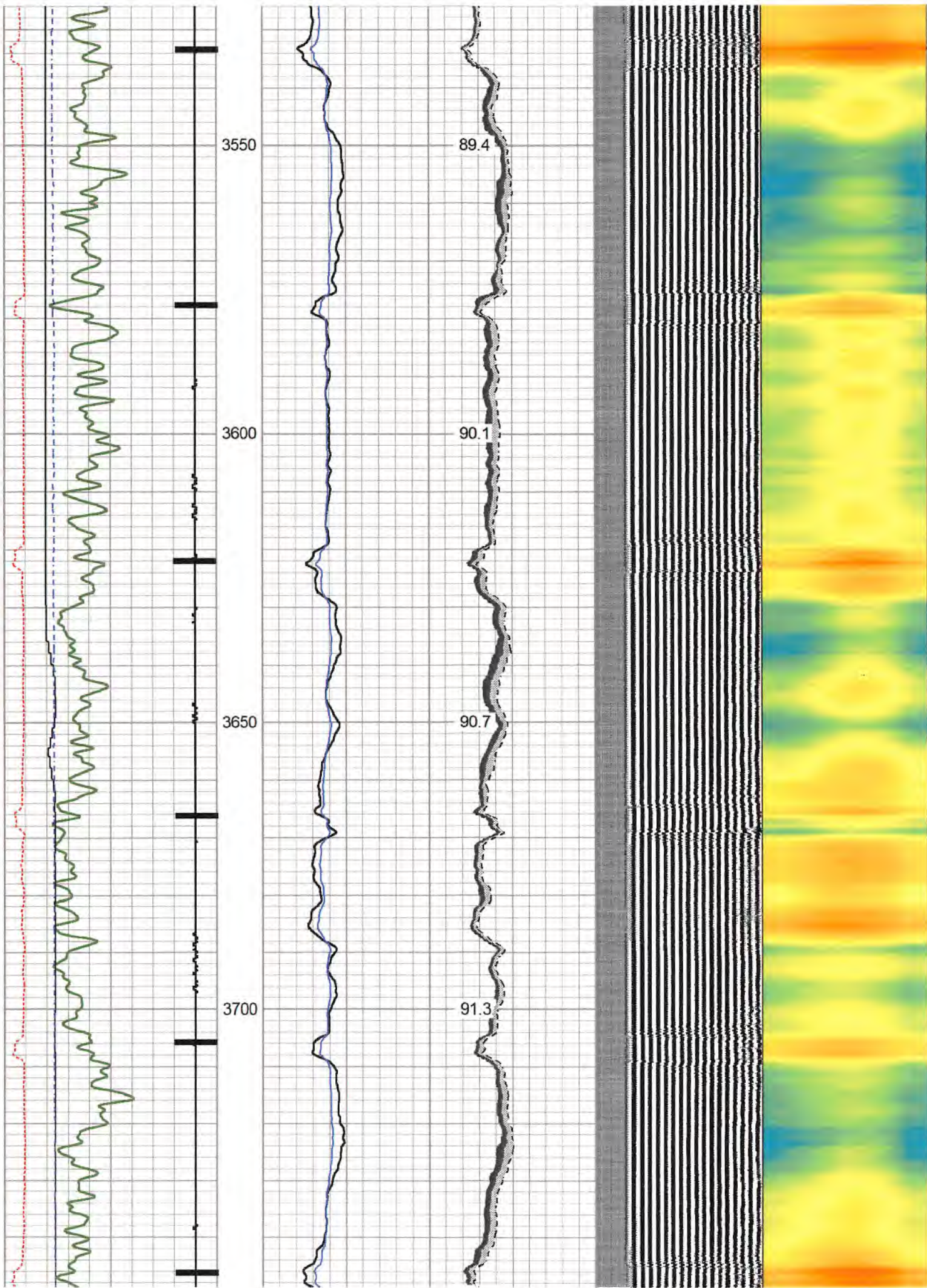


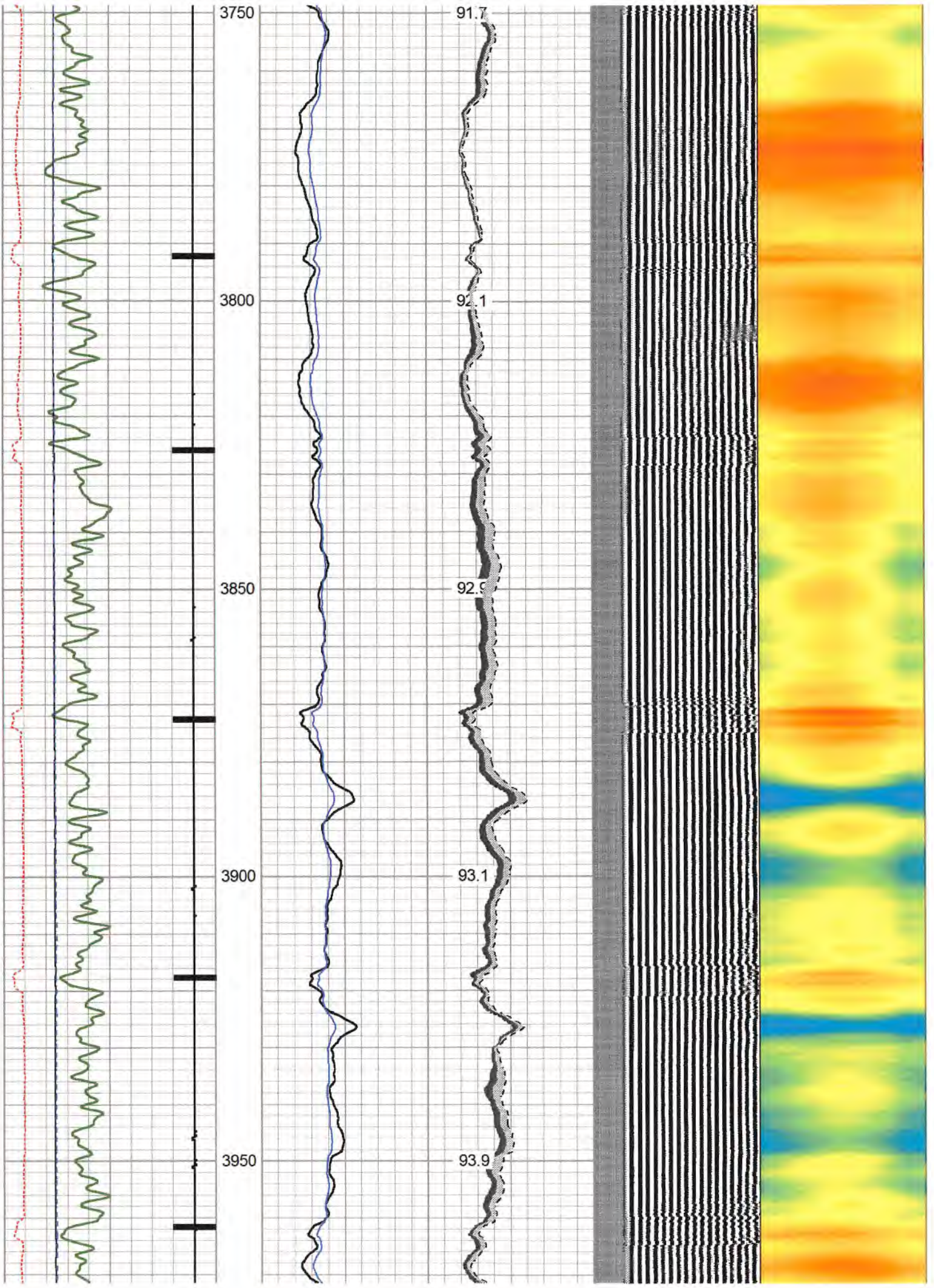


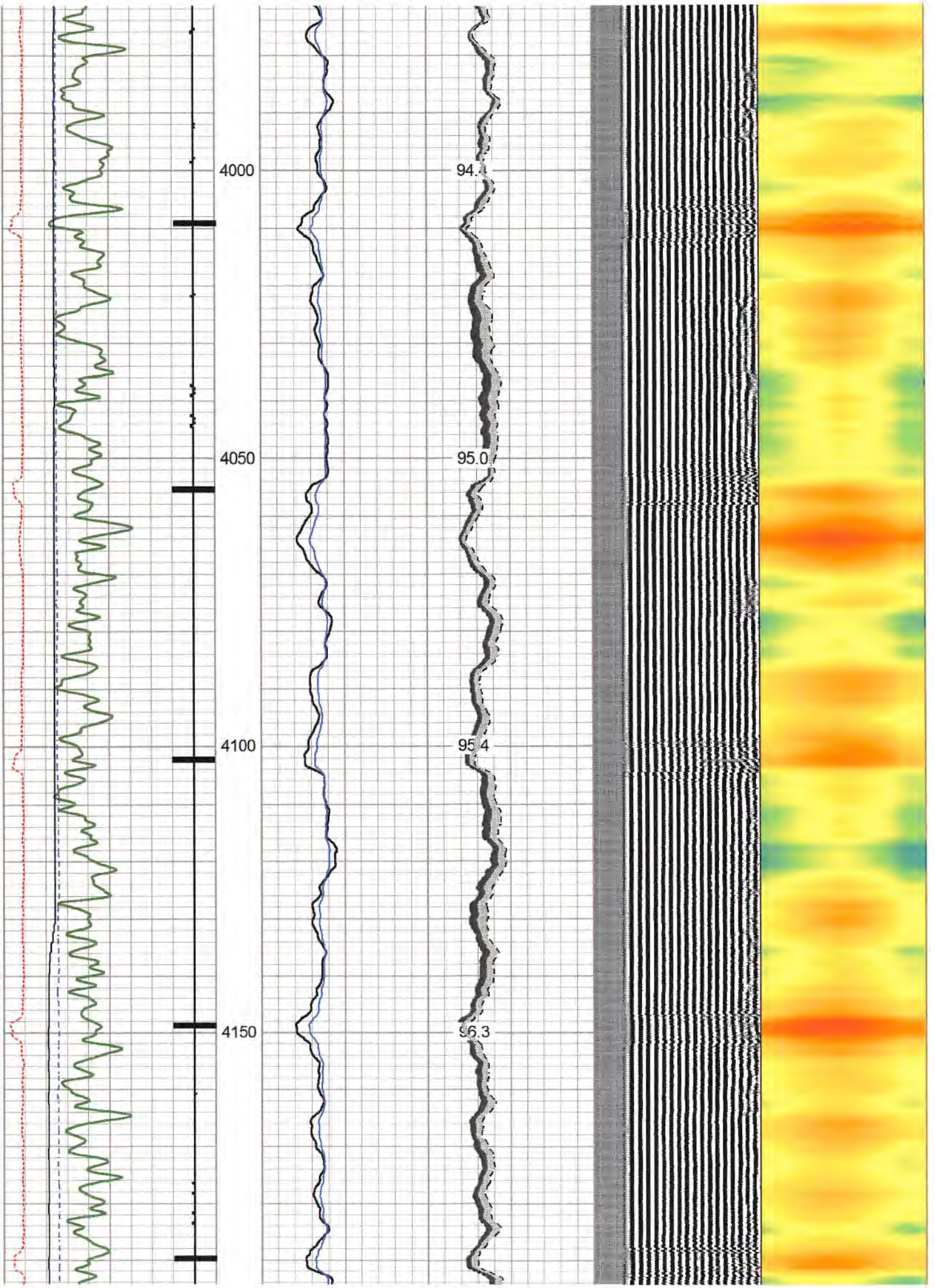


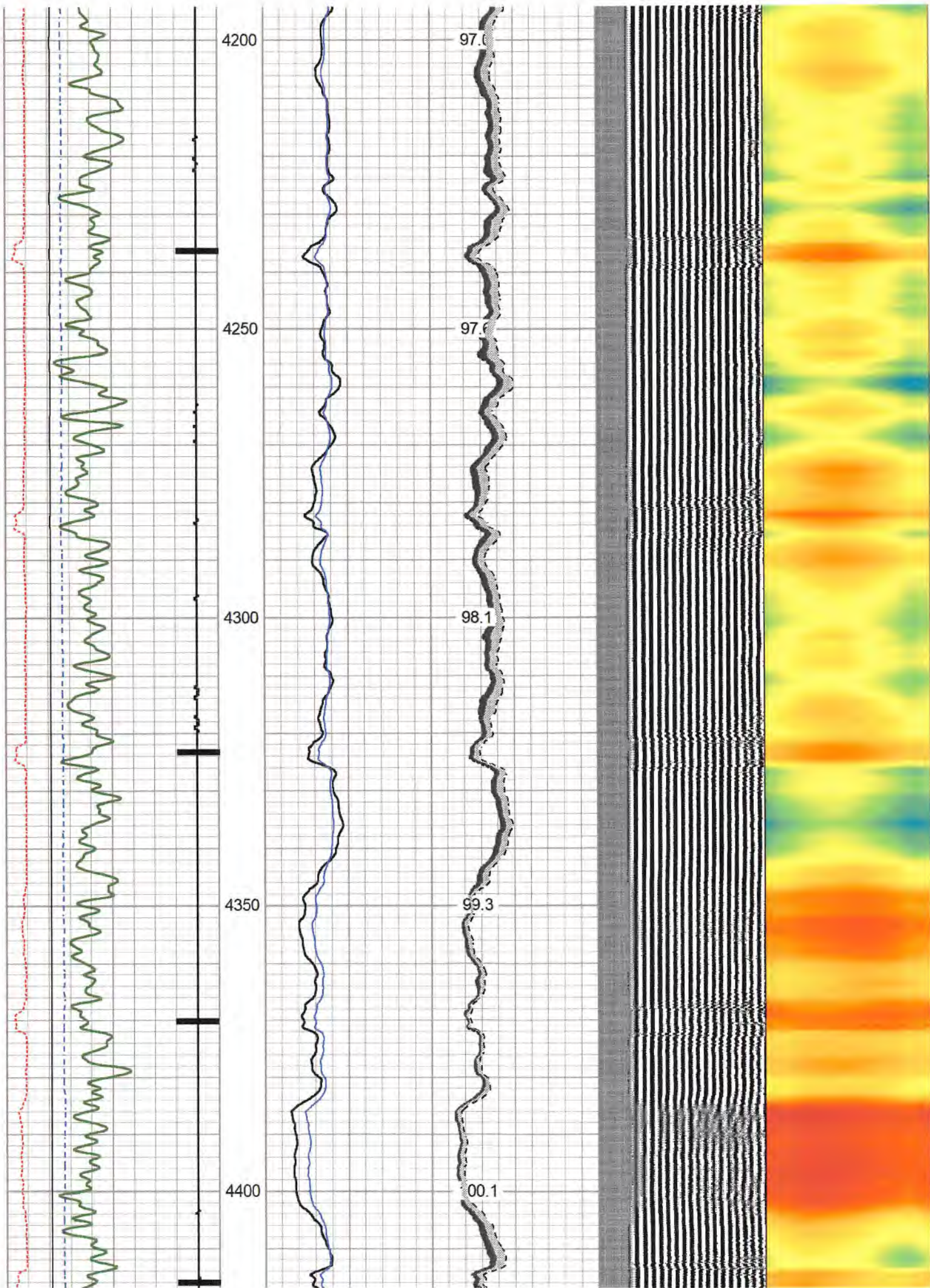


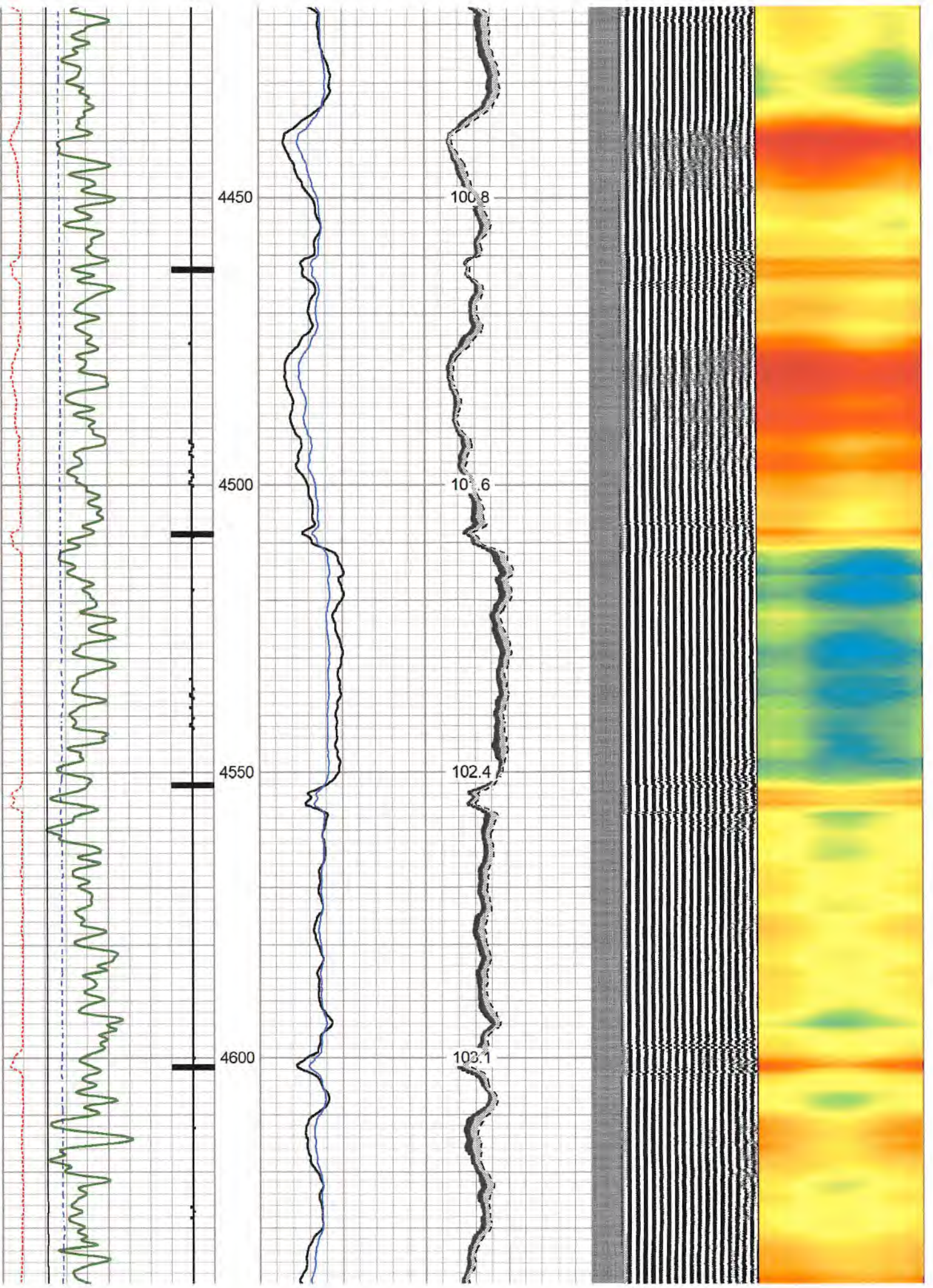


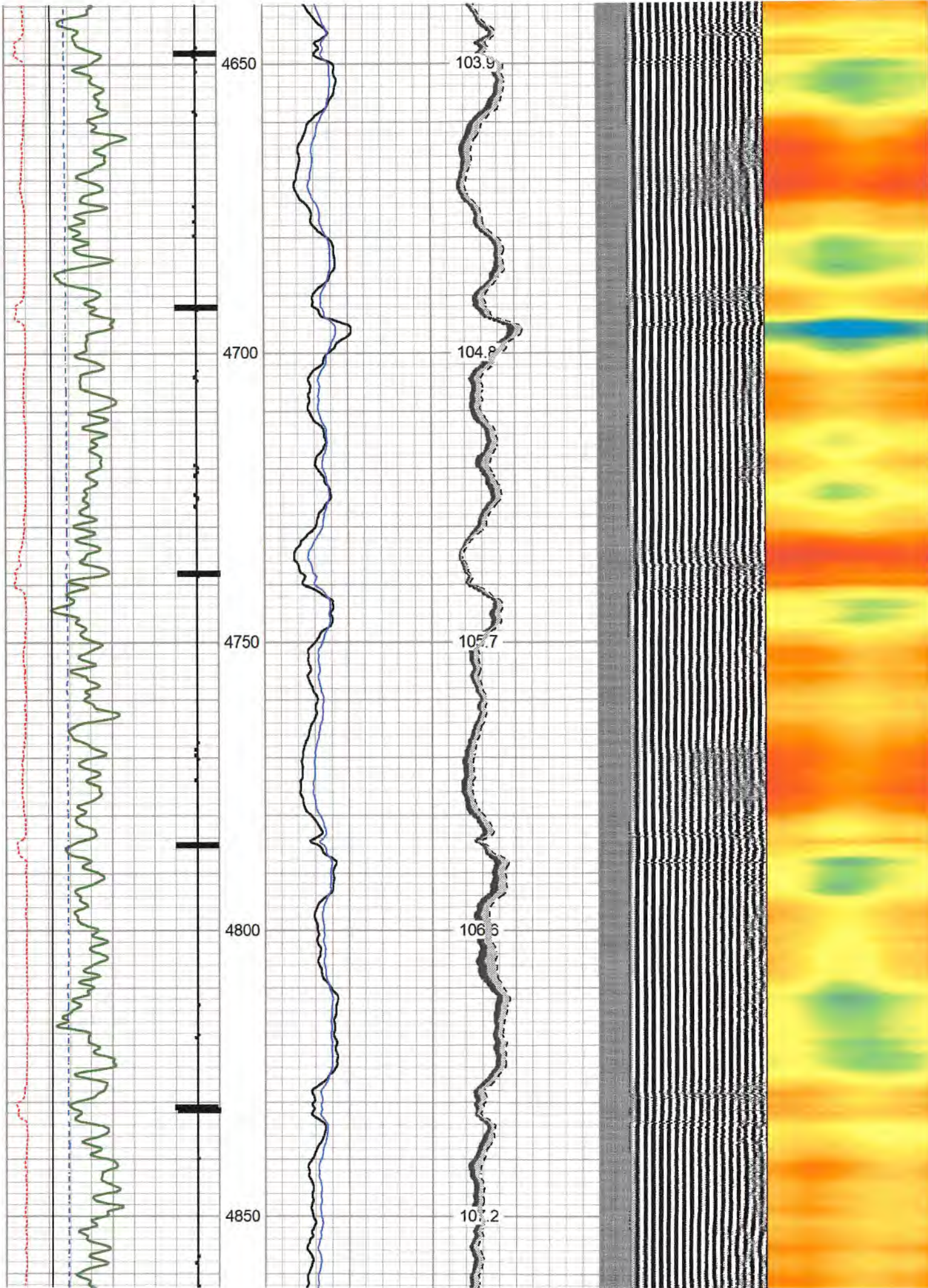


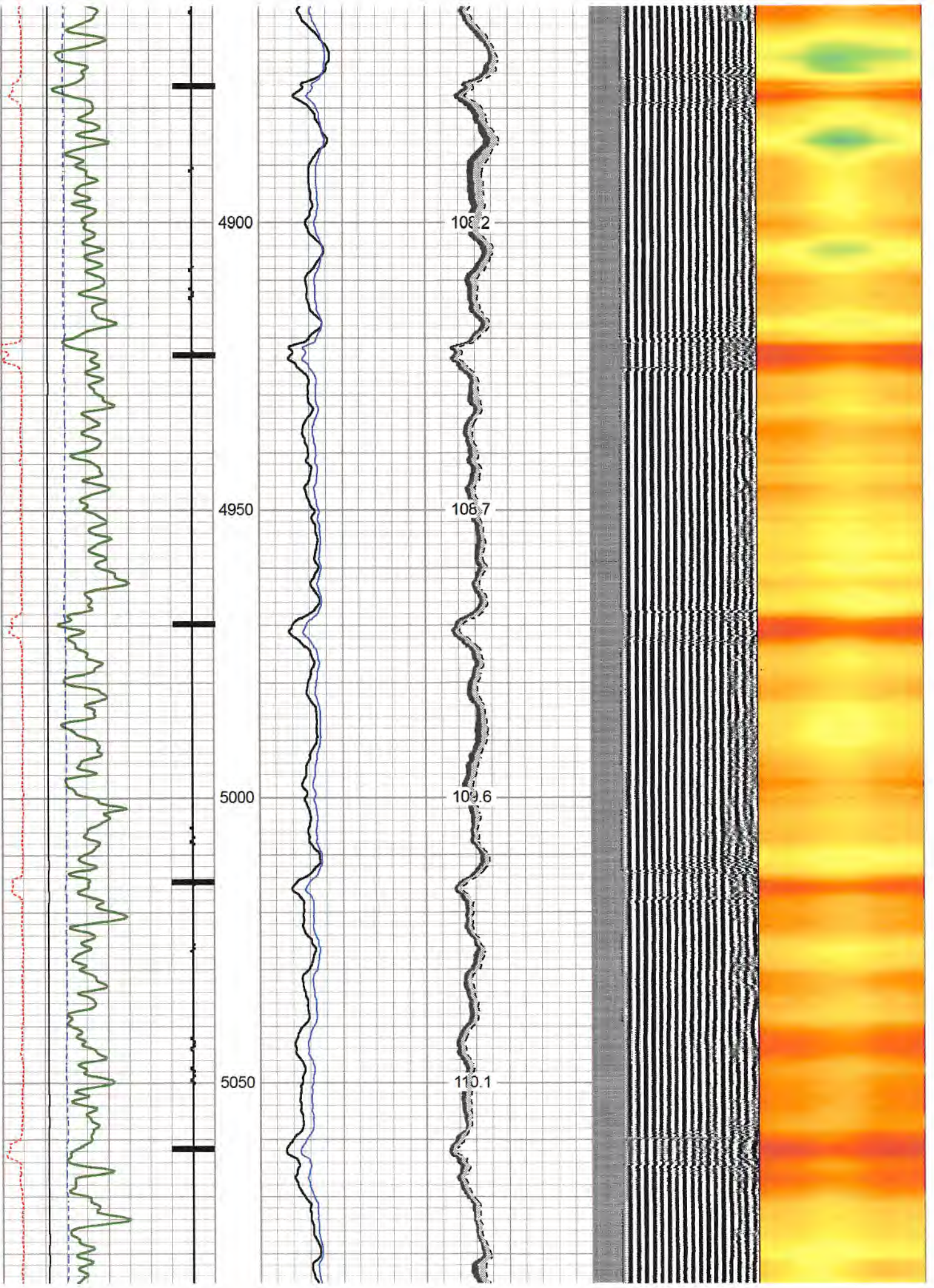


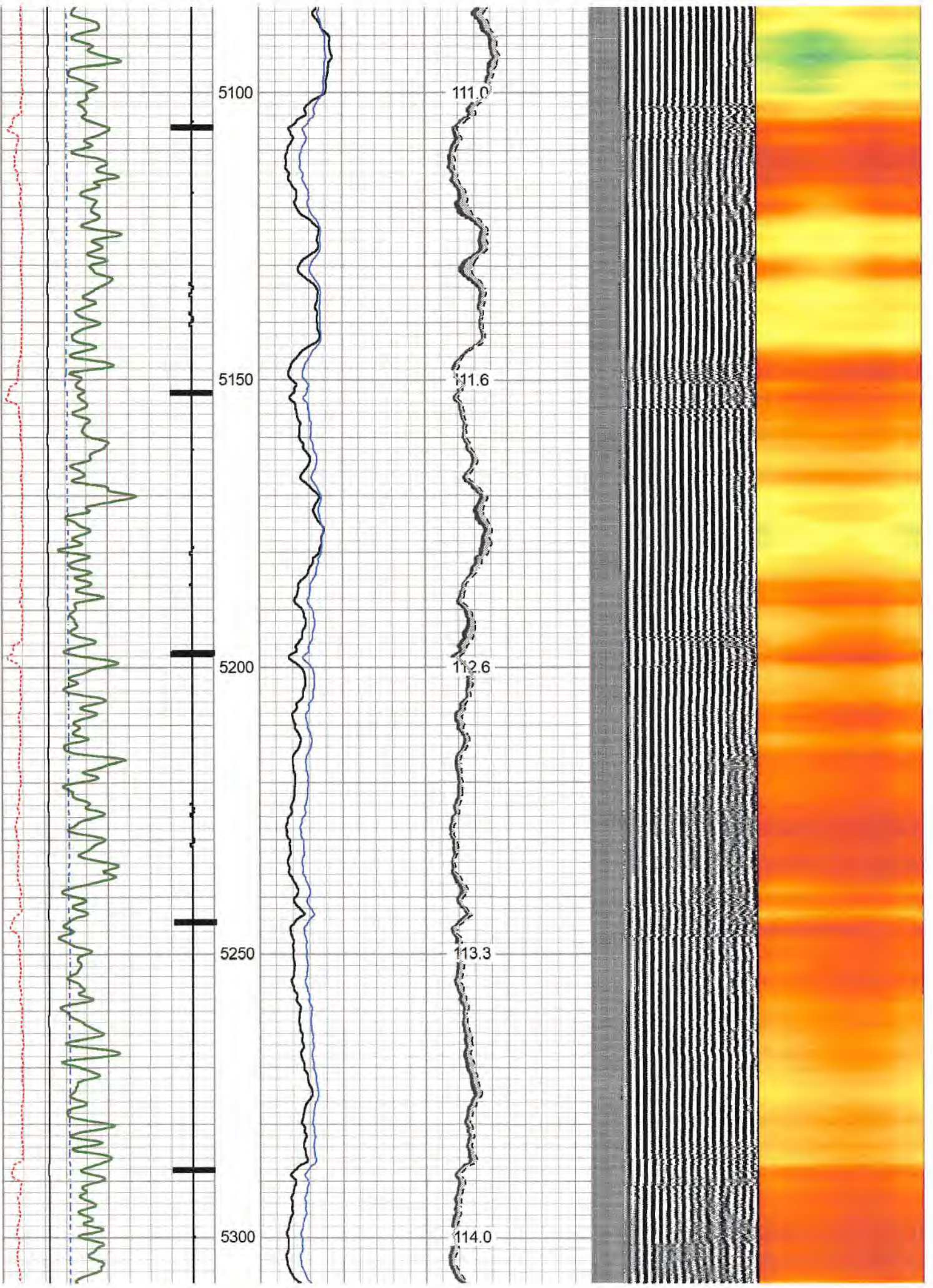


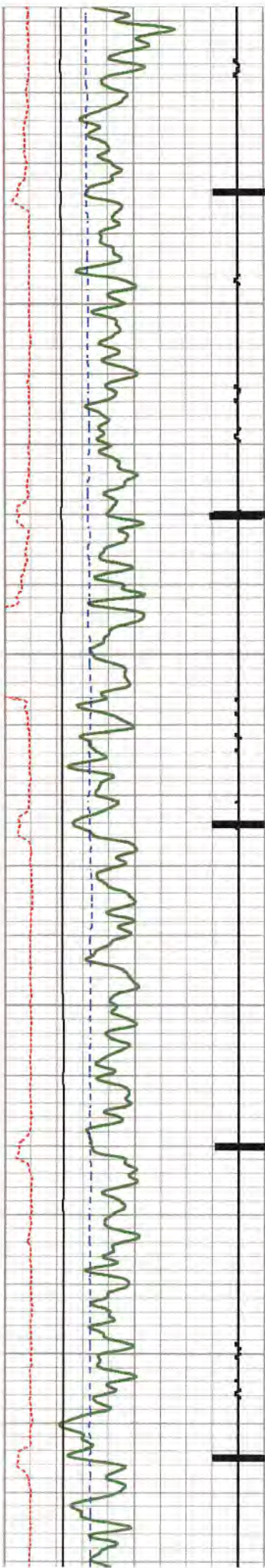










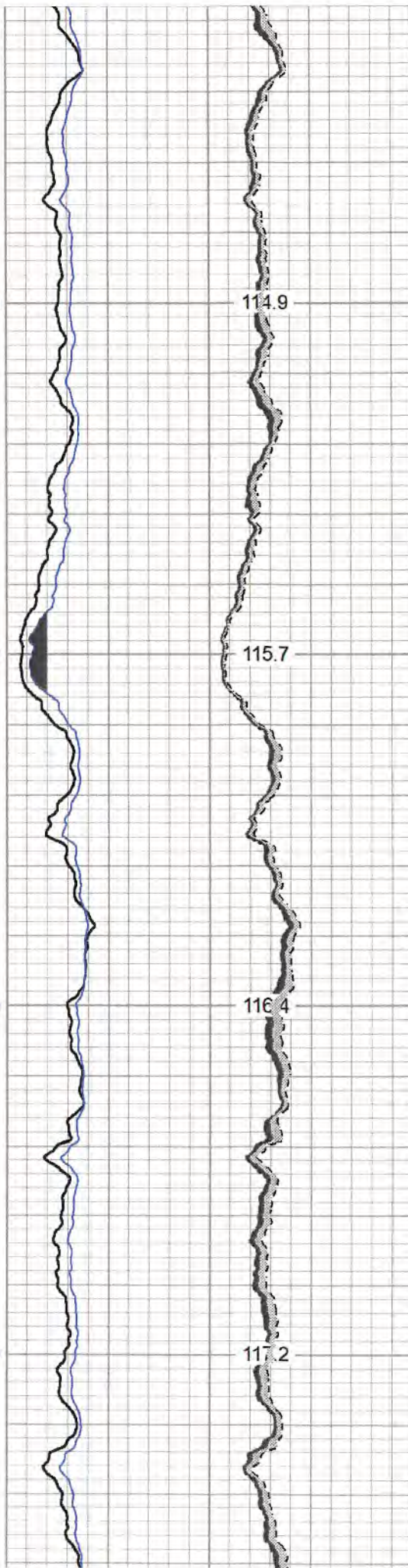


5350

5400

5450

5500

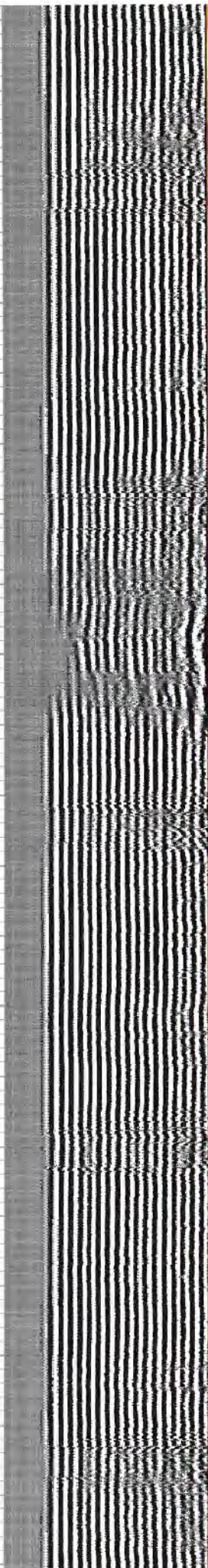


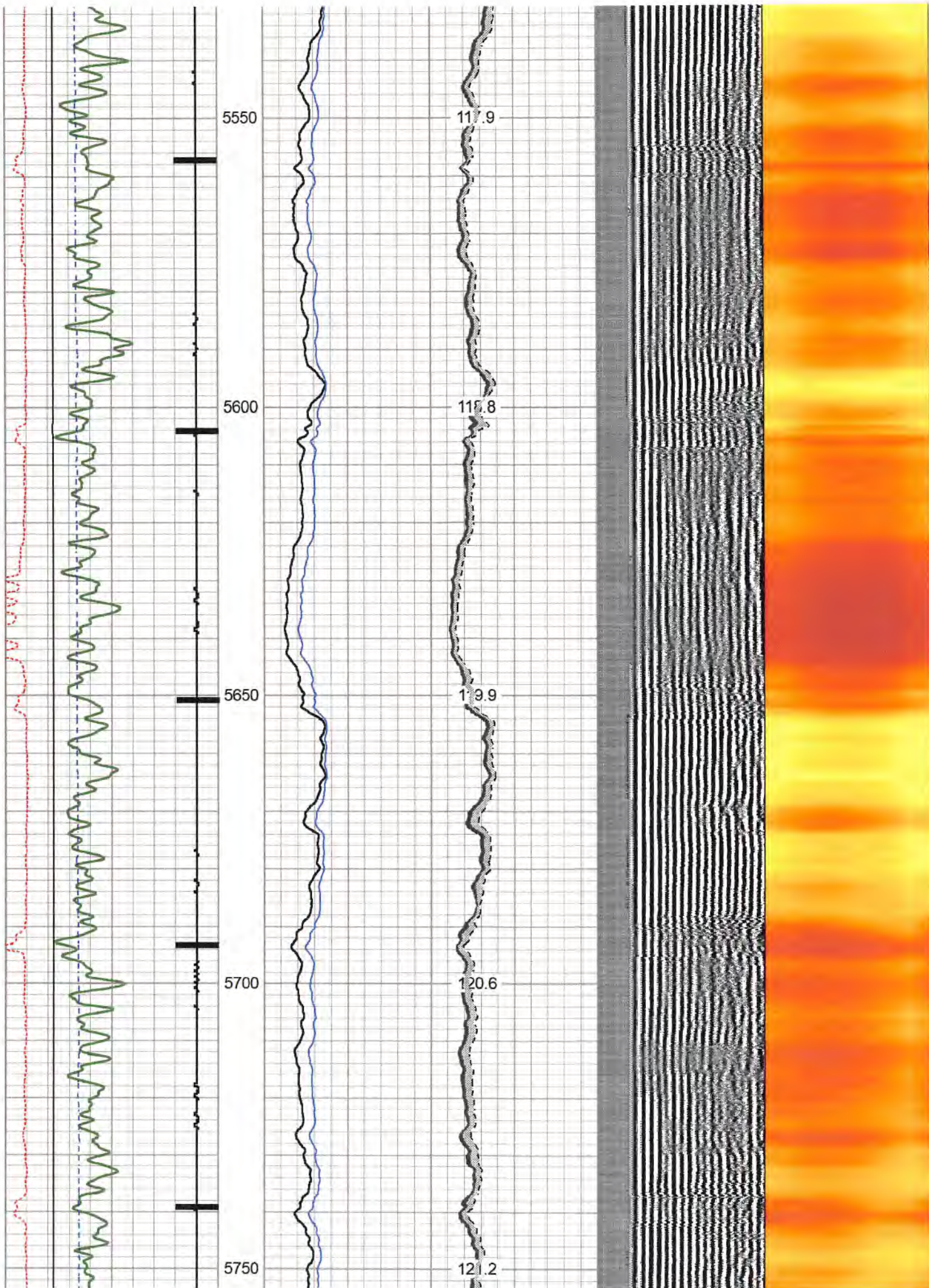
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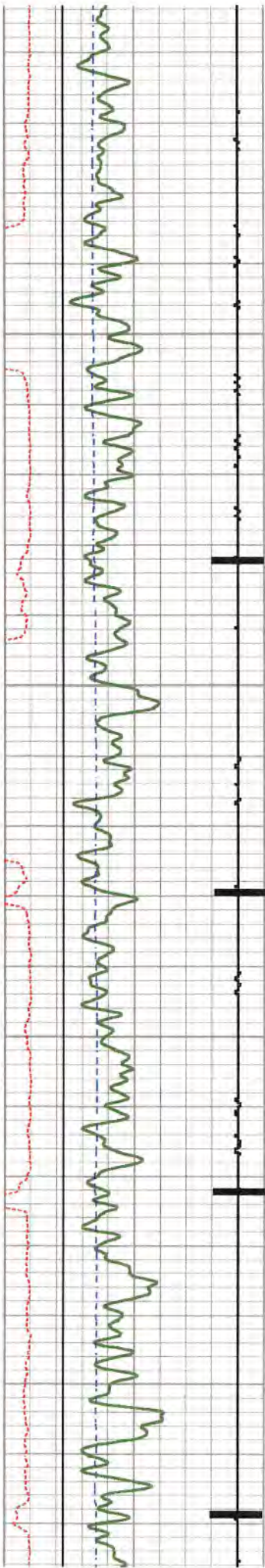
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116.4

117.2





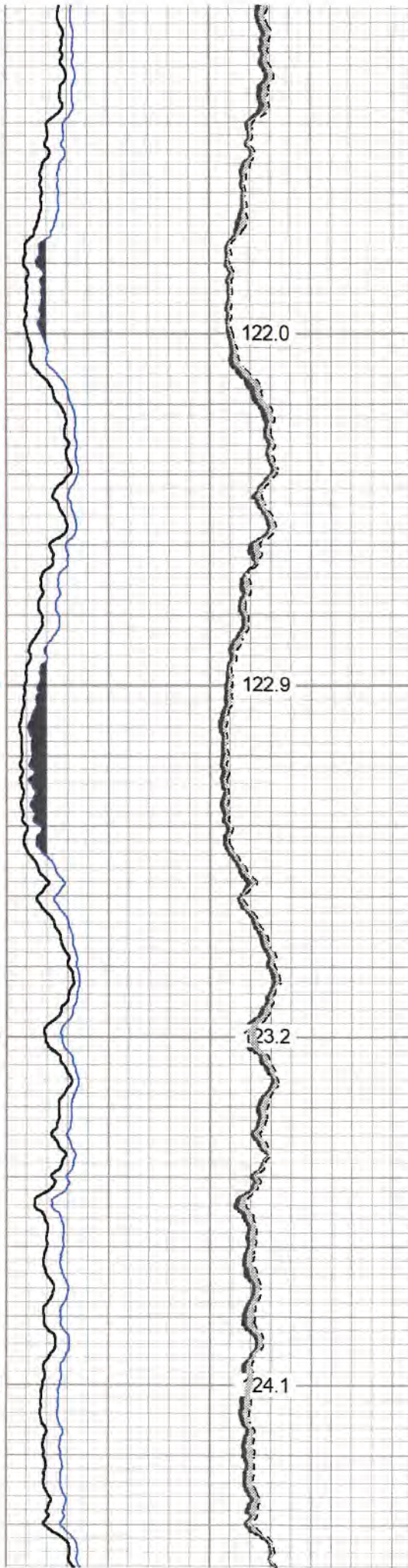


5800

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5900

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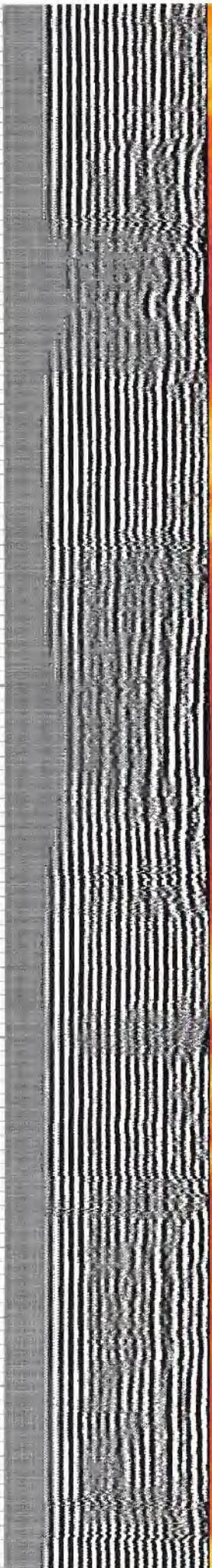


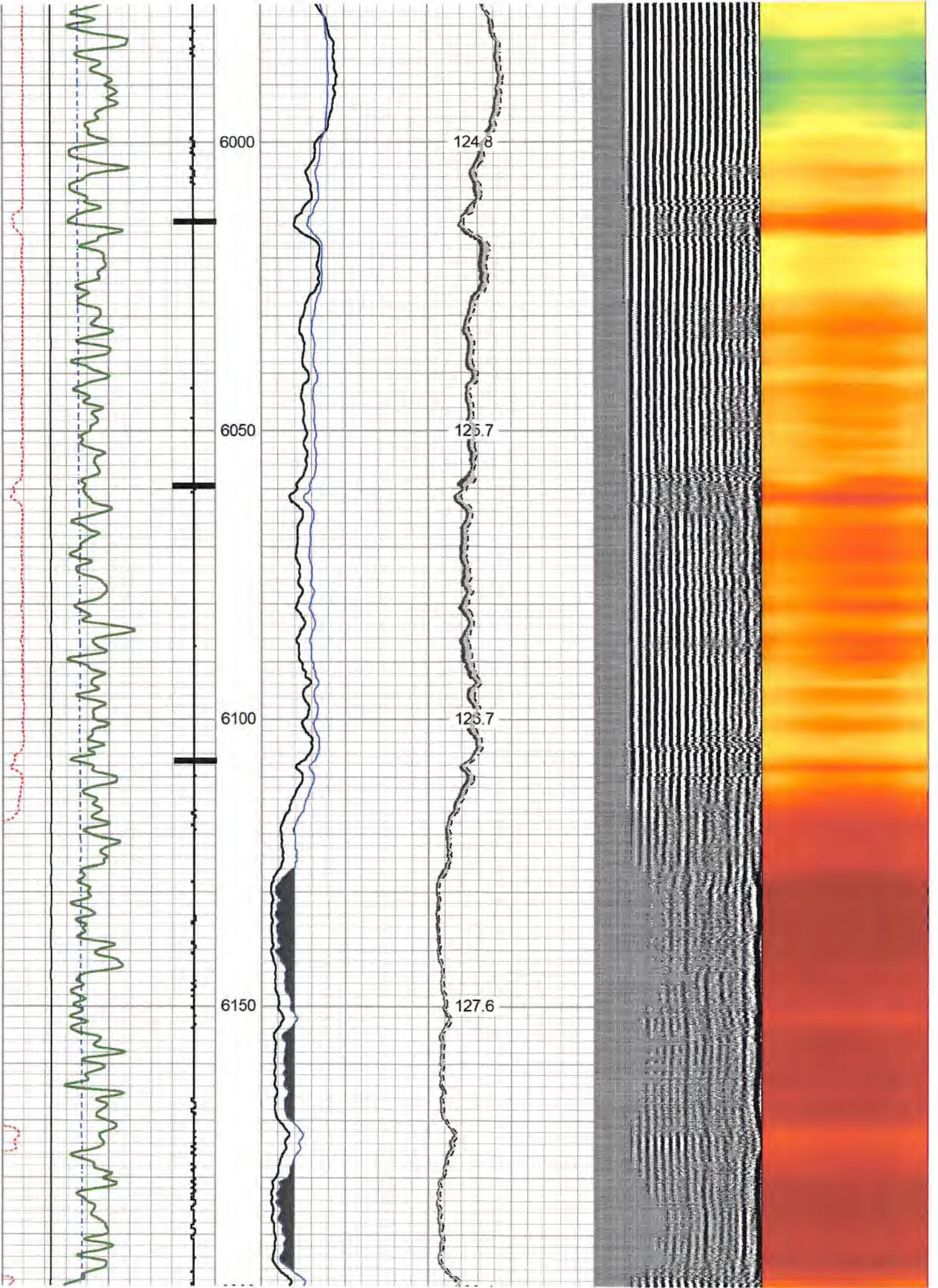
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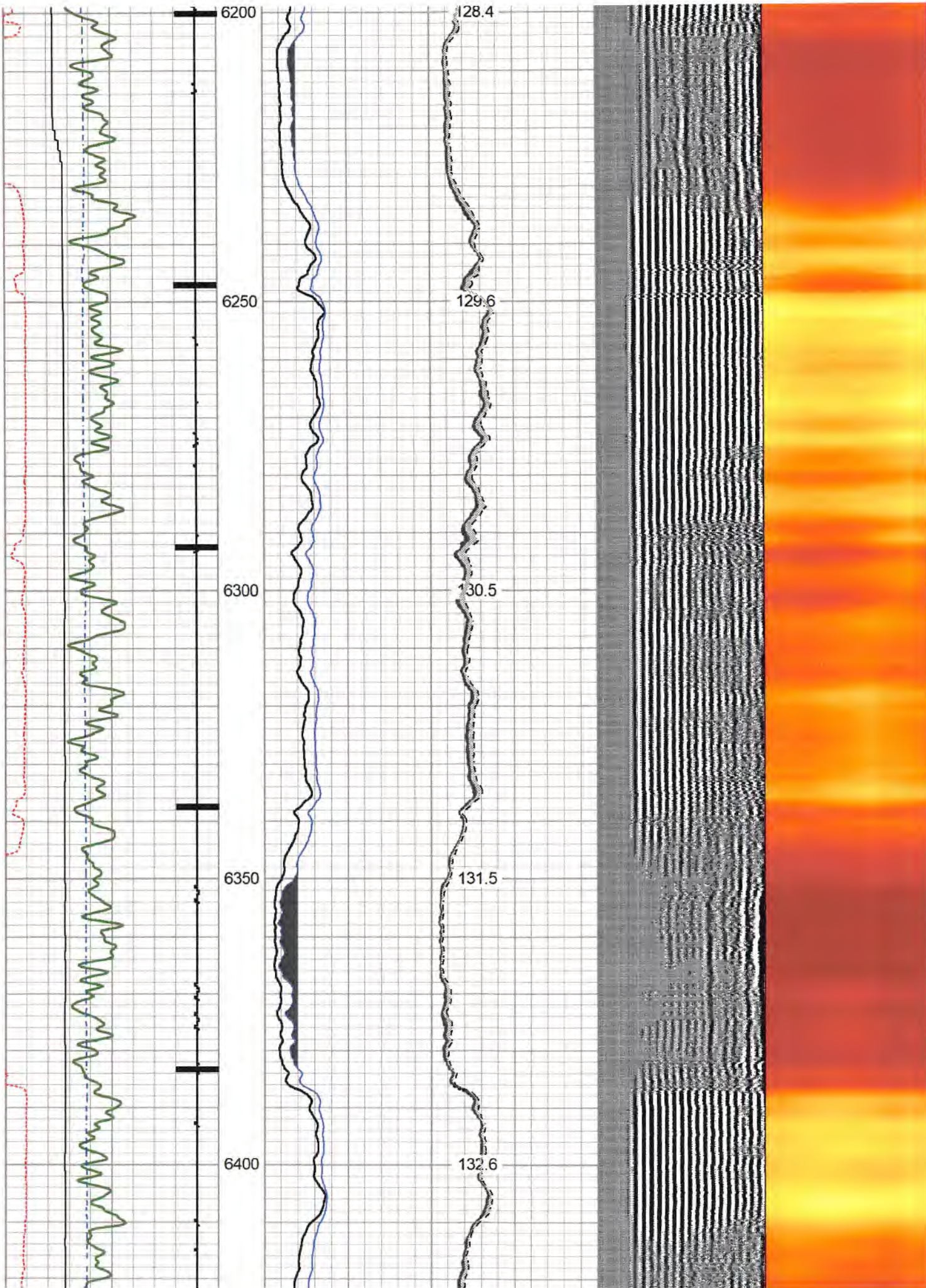
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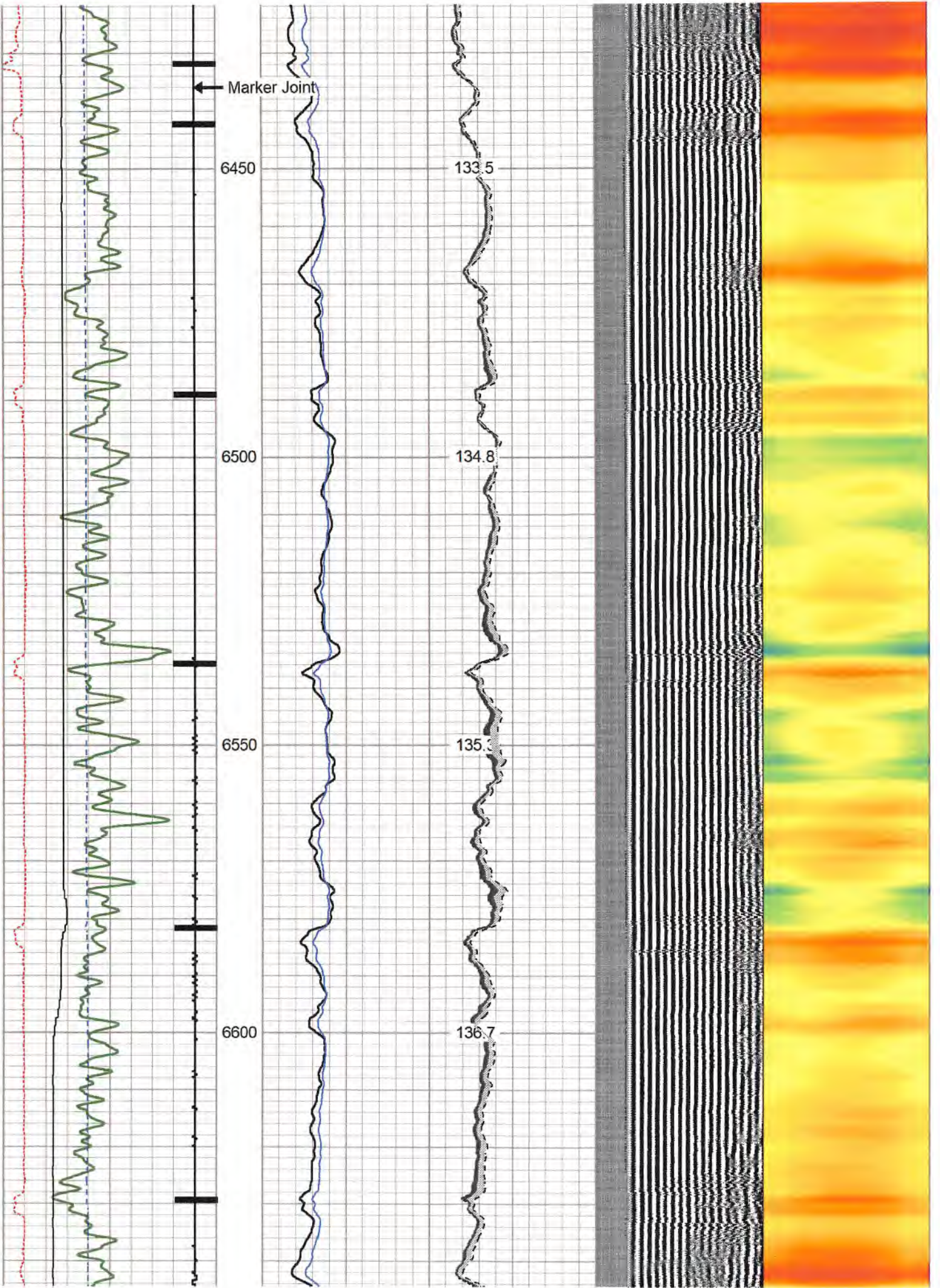
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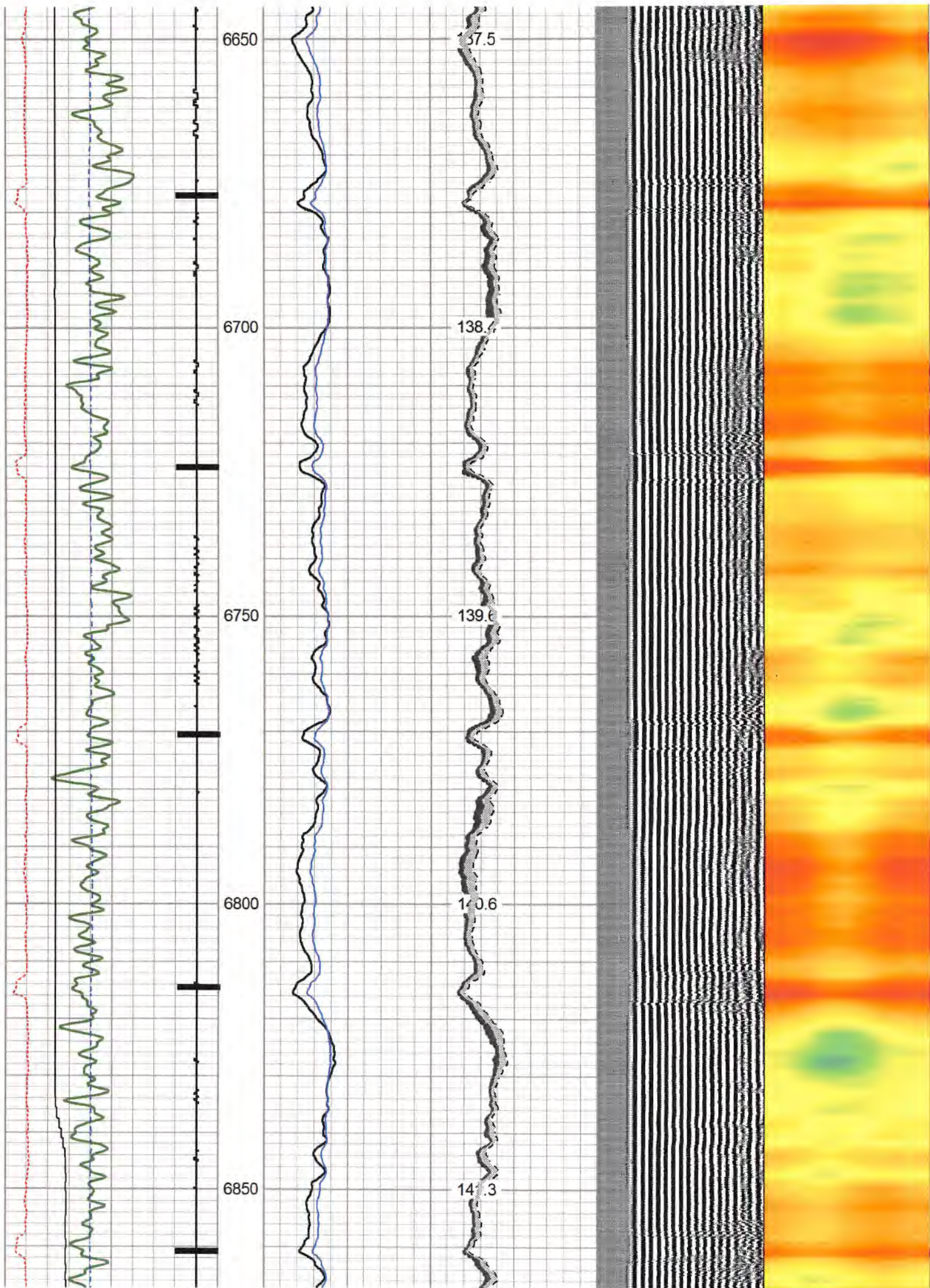
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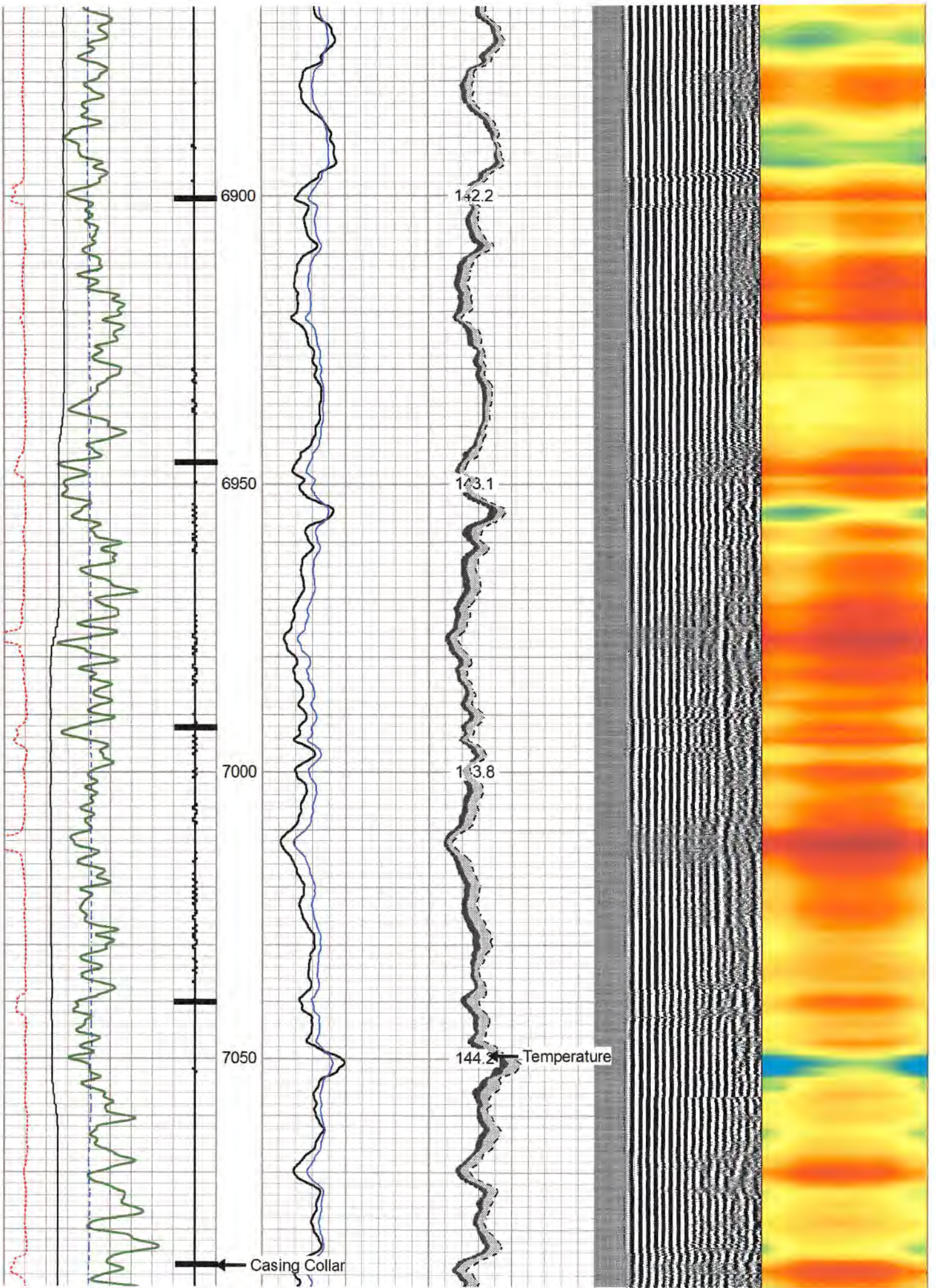


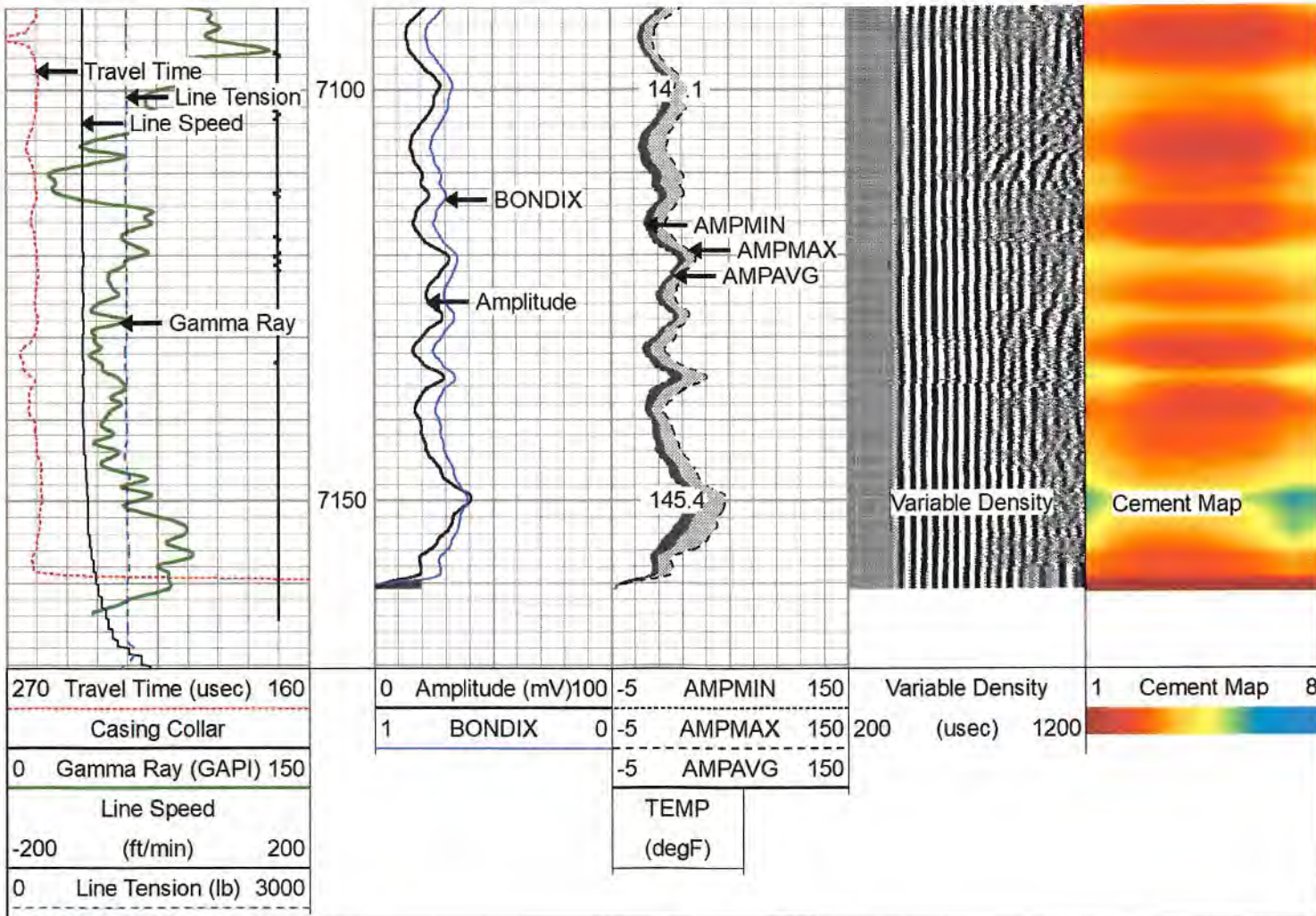






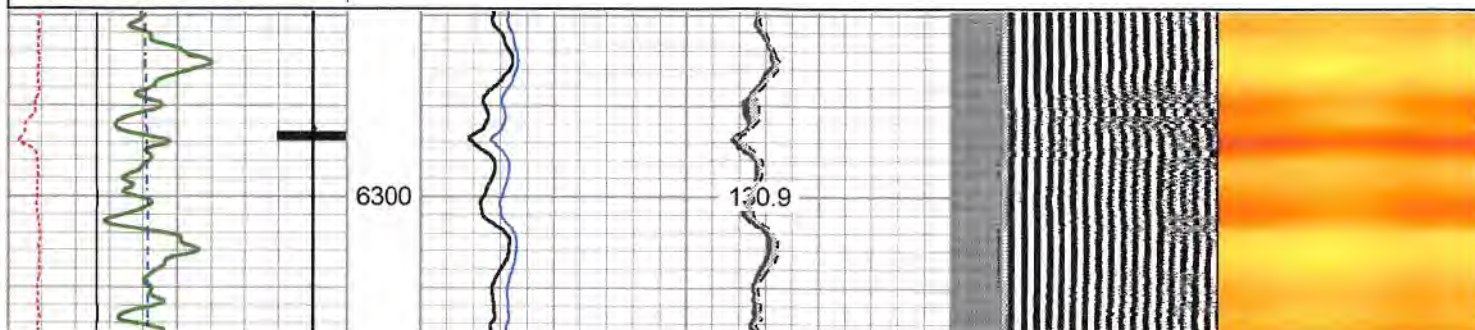
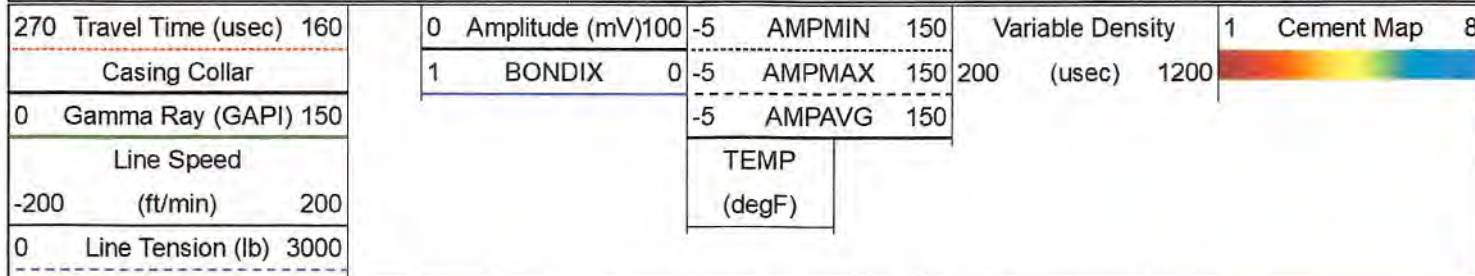


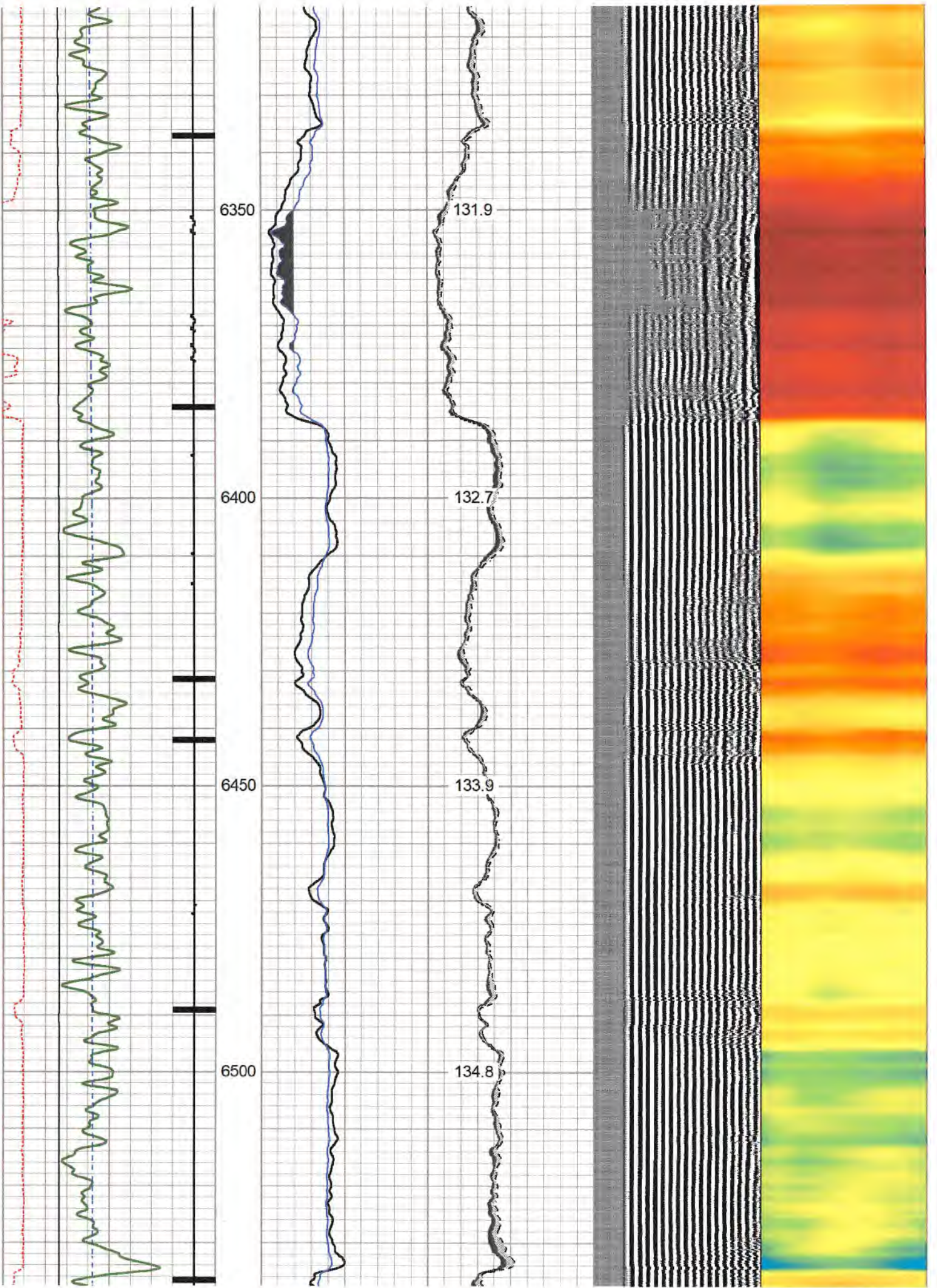


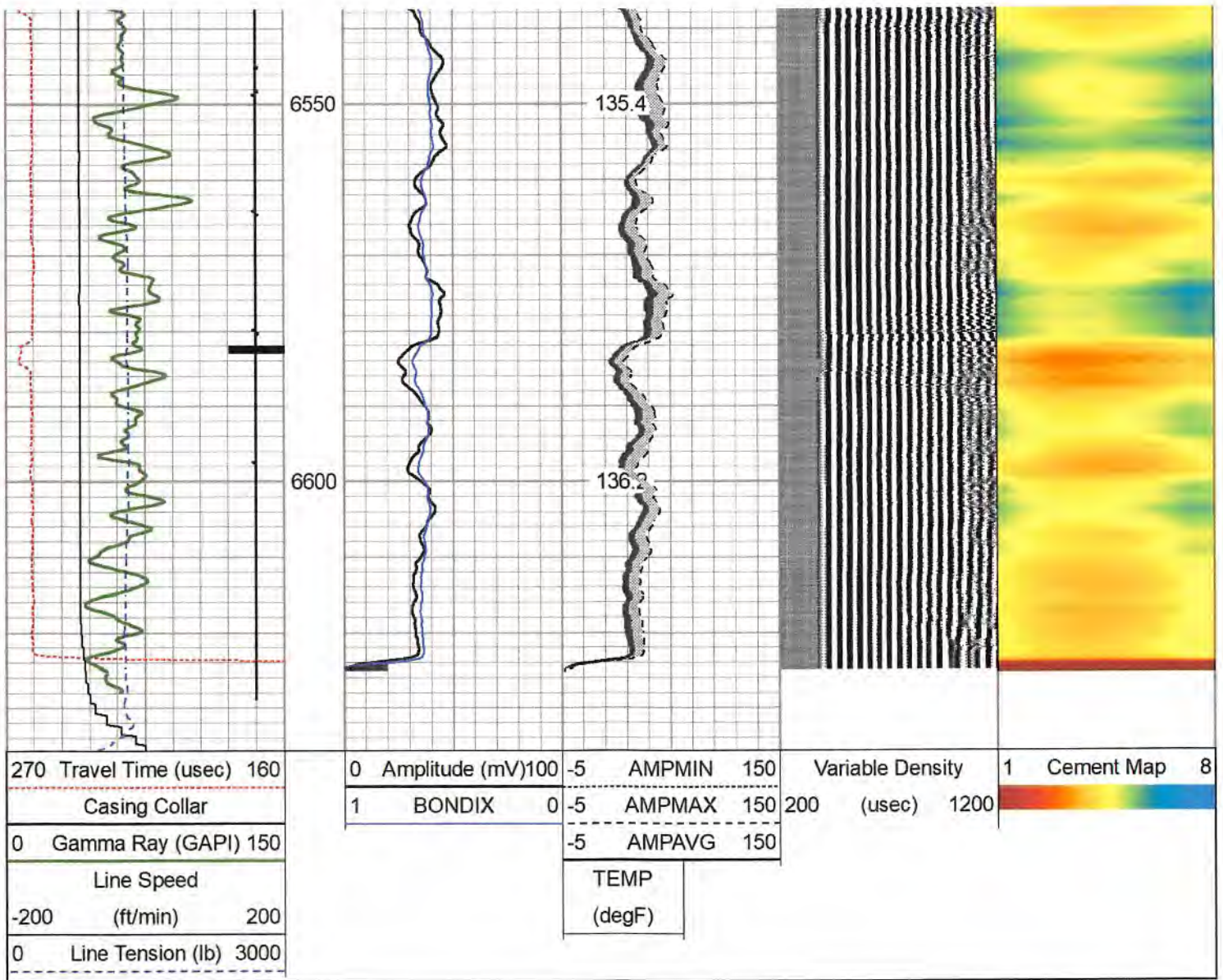



Repeat Pass 0 PSI

Database File antero_trader_1h_rcbl_08_may2022.db
 Dataset Pathname trader_1h/run1/pass2
 Presentation Format rcbl-bond index 1020
 Dataset Creation Sun May 08 11:38:52 2022
 Charted by Depth in Feet scaled 1:240







Log Variables

Database: C:\ProgramData\Warrior\Data\antero_trader_1h_rcbl_08_may2022.db
 Dataset: field/trader_1h/run1/pass7/_vars_

Top - Bottom							
BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL
	in	degF	in	in	lb/ft	mV	mV
TEMP	7.875	145	5.5	0.415	23	71.9	3.4
MINATTN	PERFS	PPT	SRFTEMP	TDEPTH			
db/ft		uSec	degF	ft			
9.6	No	260	50	7180	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
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Database File antero_trader_1h_rcbl_08_may2022.db
 Dataset Pathname trader_1h/run1/pass7
 Dataset Creation Sun May 08 15:18:06 2022

Gamma Ray Calibration Report

Serial Number: FW1211-86
 Tool Model: Probe
 Performed: Fri Apr 22 08:17:13 2022

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: 5.500 in
 Calibration Depth: 153.100 ft

Master Calibration, performed Sun May 08 09:31:36 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.016	0.810	3.400	71.921	86.338	1.991
CAL	1.080	1.221				
5'	0.009	0.874	3.400	71.921	79.166	2.703
SUM						
S1	0.021	0.747	0.000	100.000	137.692	-2.903
S2	0.005	0.768	0.000	100.000	130.980	-0.598
S3	0.008	0.797	0.000	100.000	126.782	-0.998
S4	0.010	0.818	0.000	100.000	123.733	-1.201
S5	0.006	0.854	0.000	100.000	117.996	-0.746
S6	0.002	0.859	0.000	100.000	116.679	-0.281
S7	0.009	0.828	0.000	100.000	122.157	-1.111
S8	-0.002	0.781	0.000	100.000	127.601	0.313

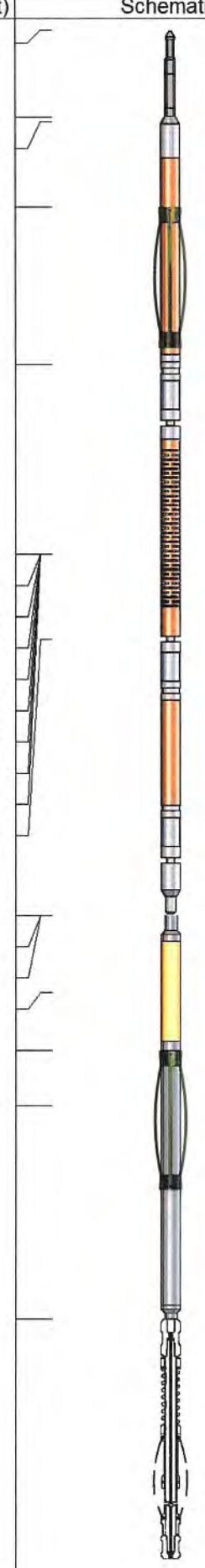
Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.080	1.221	1.000	0.000

Air Zero Calibration, performed Sat May 07 10:01:22 2022:

	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)	
CHD	18.05		CHD-Titan Standard 1 7/16" Cable Head	1.02	1.44	1.00	
RBT HeadVolt	17.03 16.97						
CENT	15.97		CENT-Overbody Antelope (SP-919-0233)	1.67	4.88	5.00	
Temp	14.12						
WVFS8	11.89		RBT-Probe275T (FW1312-32) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00	
WVFS7	11.89						
WVFS6	11.89						
WVFS5	11.89						
WVFS4	11.89						
WVFS3	11.89						
WVFS2	11.89						
WVFS1	11.89						
WVF3FT	11.89						
WVF5FT	10.89						
GR	7.64						
WVFCAL	7.64						
HEADVOLT	7.64						
CCL	6.73						
CENT	6.05						
GR	5.40		GR-Probe (FW1211-86) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00	
		CENT-Overbody Antelope (SP-919-0233)	1.67	4.88	5.00		
CENT	2.86	CENT-Titn275Adj Titan 2 3/4" Adjustable Centralizer	2.86	2.75	35.00		

Dataset:	antero_trader_1h_rcbl_08_may2022.db: field/trader_1h/run1/pass7
Total length:	18.05 ft
Total weight:	193.00 lb
O.D.:	4.88 in



Company	Antero Resources
Well	Journeyman Trader 1H
Field	Utica
County	Wetzel
State	WV