

Comments

Log Correlated to Marker Joint at (5,788' - 5,798')
Depth Correction +2

Main Pass 1500 PSI
Repeat Pass 0 PSI

Thank You For Choosing Nine Energy Service Wireline.Charleroi,PA



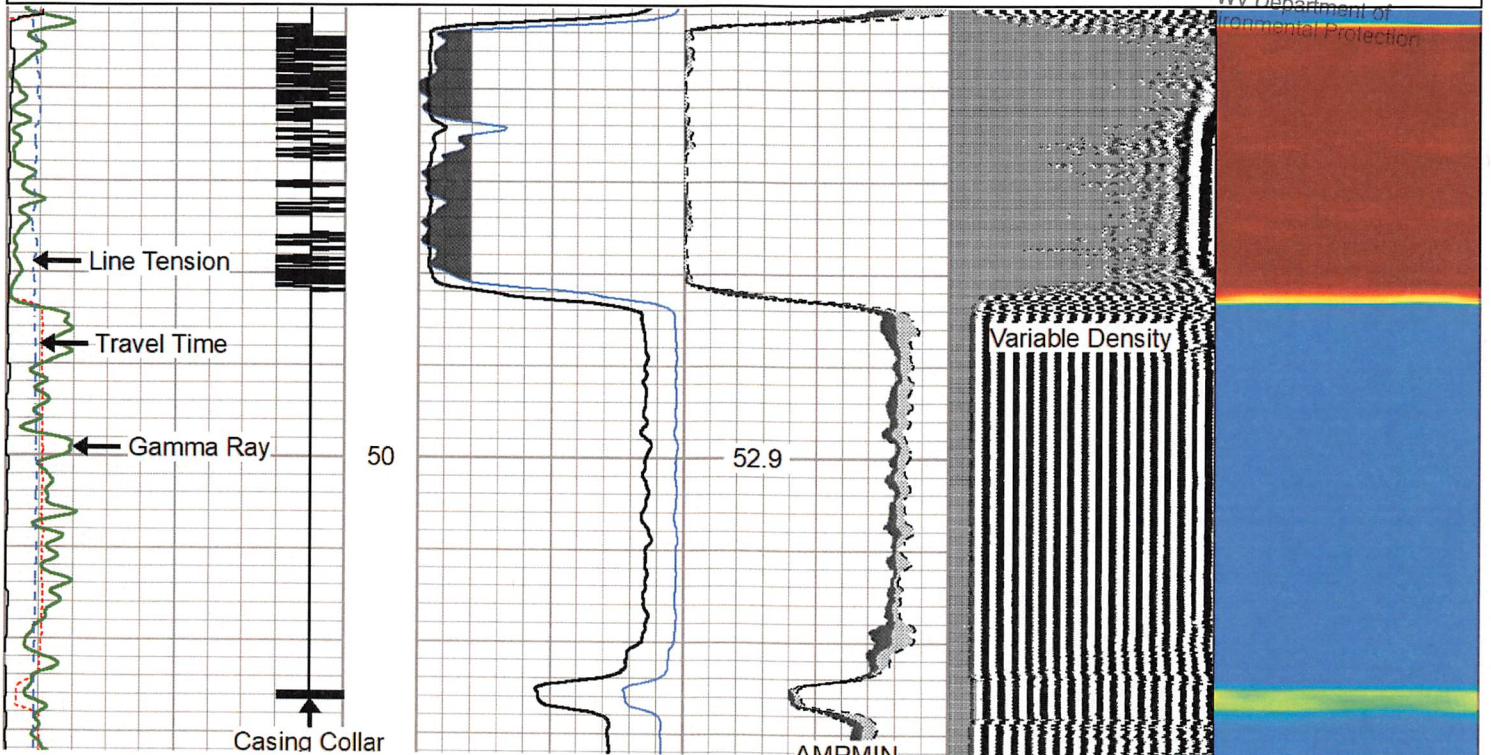
Main Pass 1500 PSI

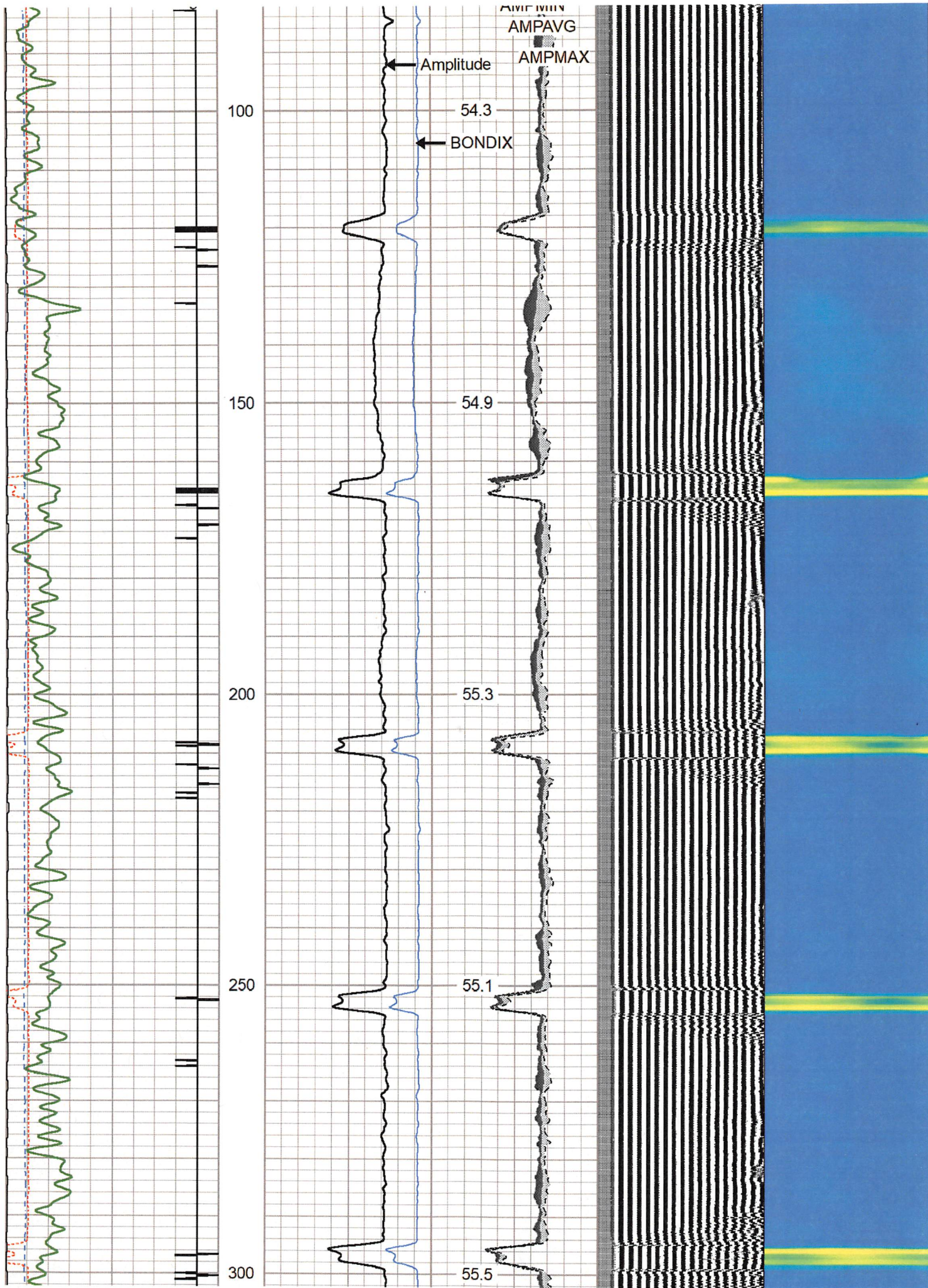
Database File antero_little_2h_rcbl_02_april_2023.db
Dataset Pathname pass11
Presentation Format rcbl-bond index for antero 1020
Dataset Creation Sun Apr 02 09:37:24 2023
Charted by Depth in Feet scaled 1:240

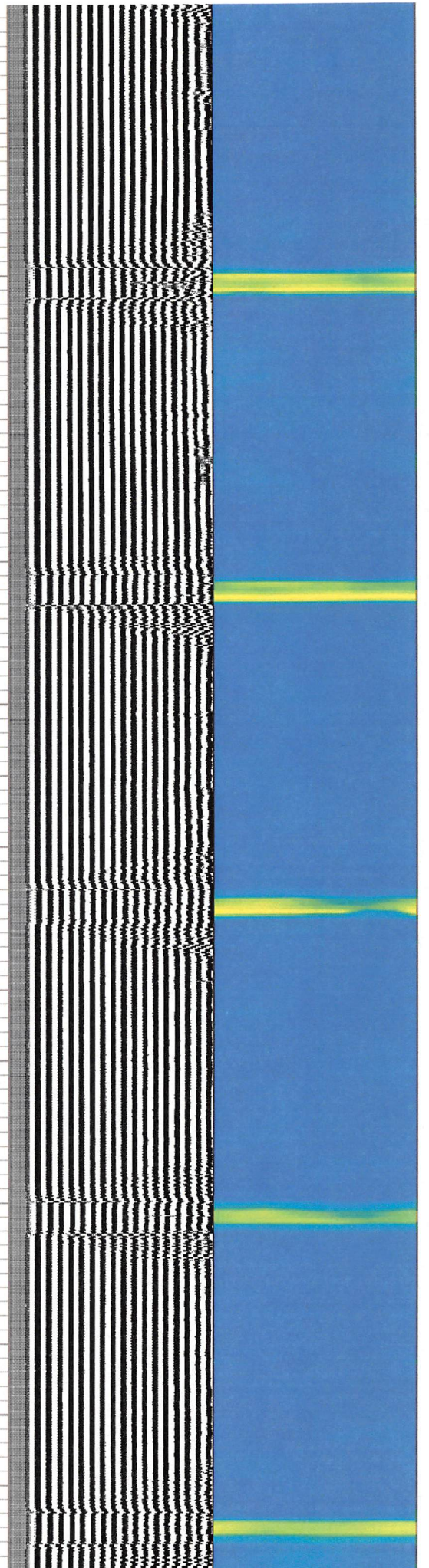
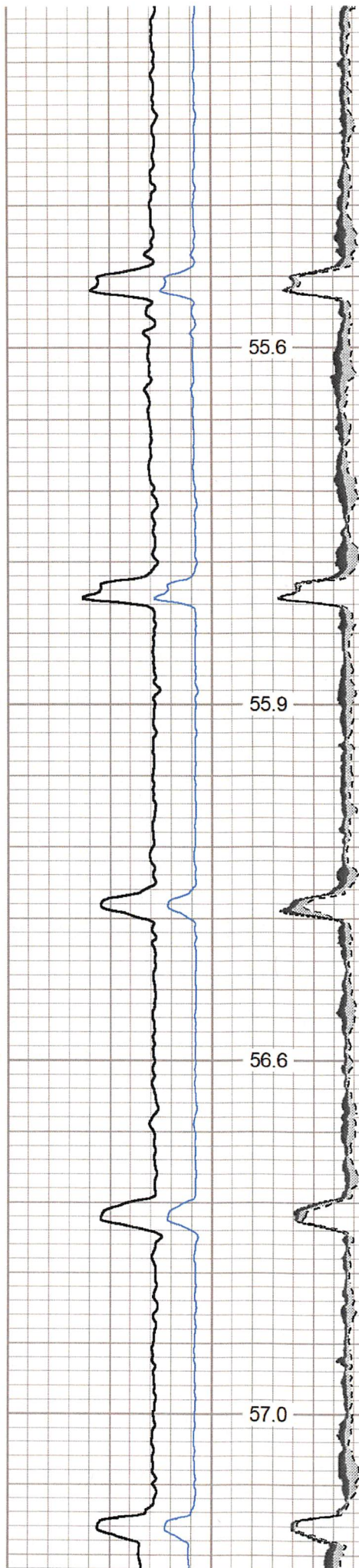
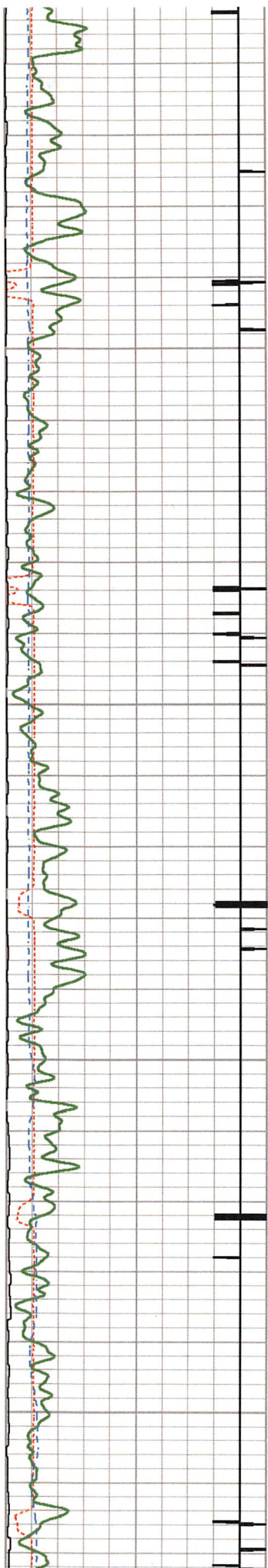
268	Travel Time (usec)	168	0	Amplitude (mV)	100	0	AMPMIN	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1	1	BONDIX	0	0	AMPMAX	150	300 (usec)	1200		
0	Gamma Ray (GAPI)	150	0	AMPAVG	150							
Line Speed			TEMP									
-100	(ft/min)	100	(degF)									
0	Line Tension (lb)	2000										

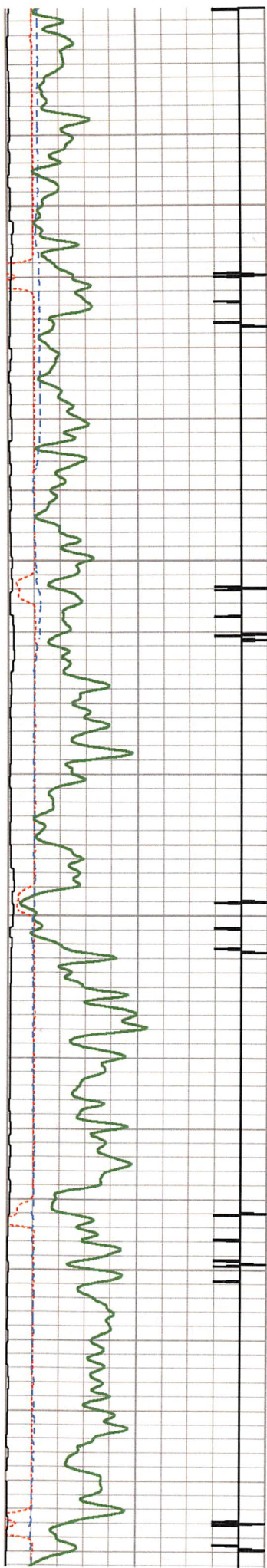
RECEIVED
Office of Oil and Gas
AUG 21 2023

WV Department of Environmental Protection







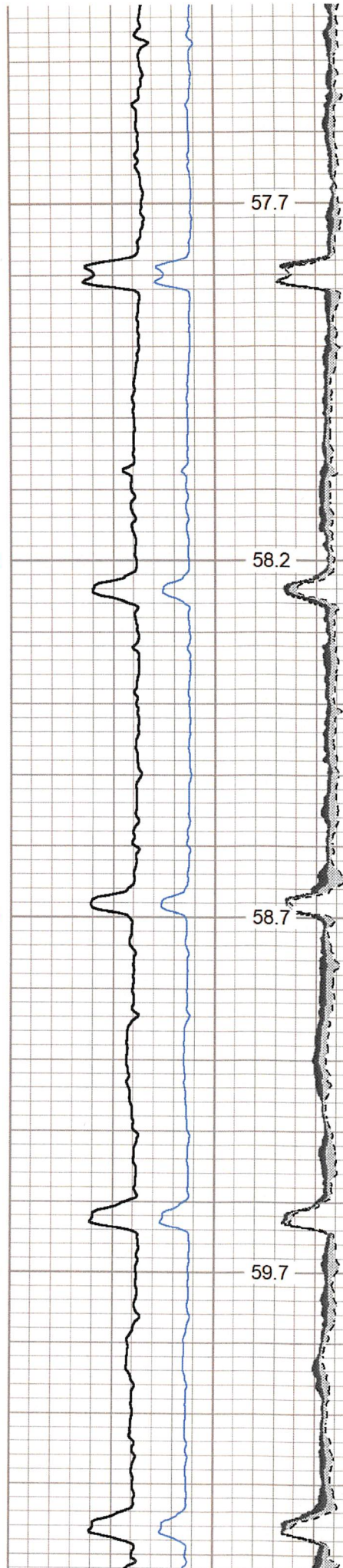


550

600

650

700

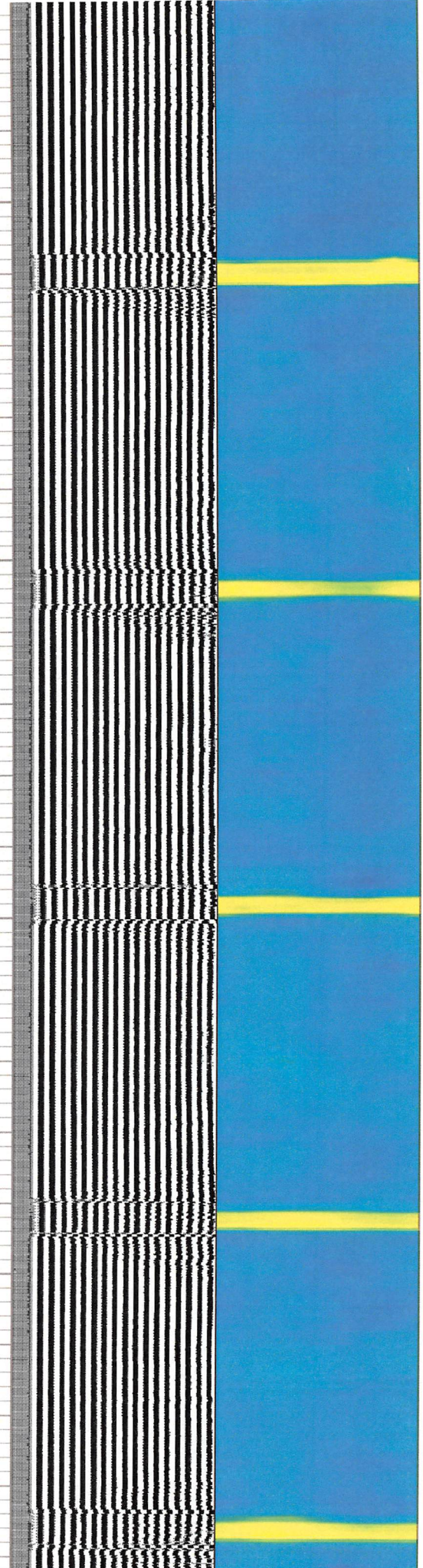


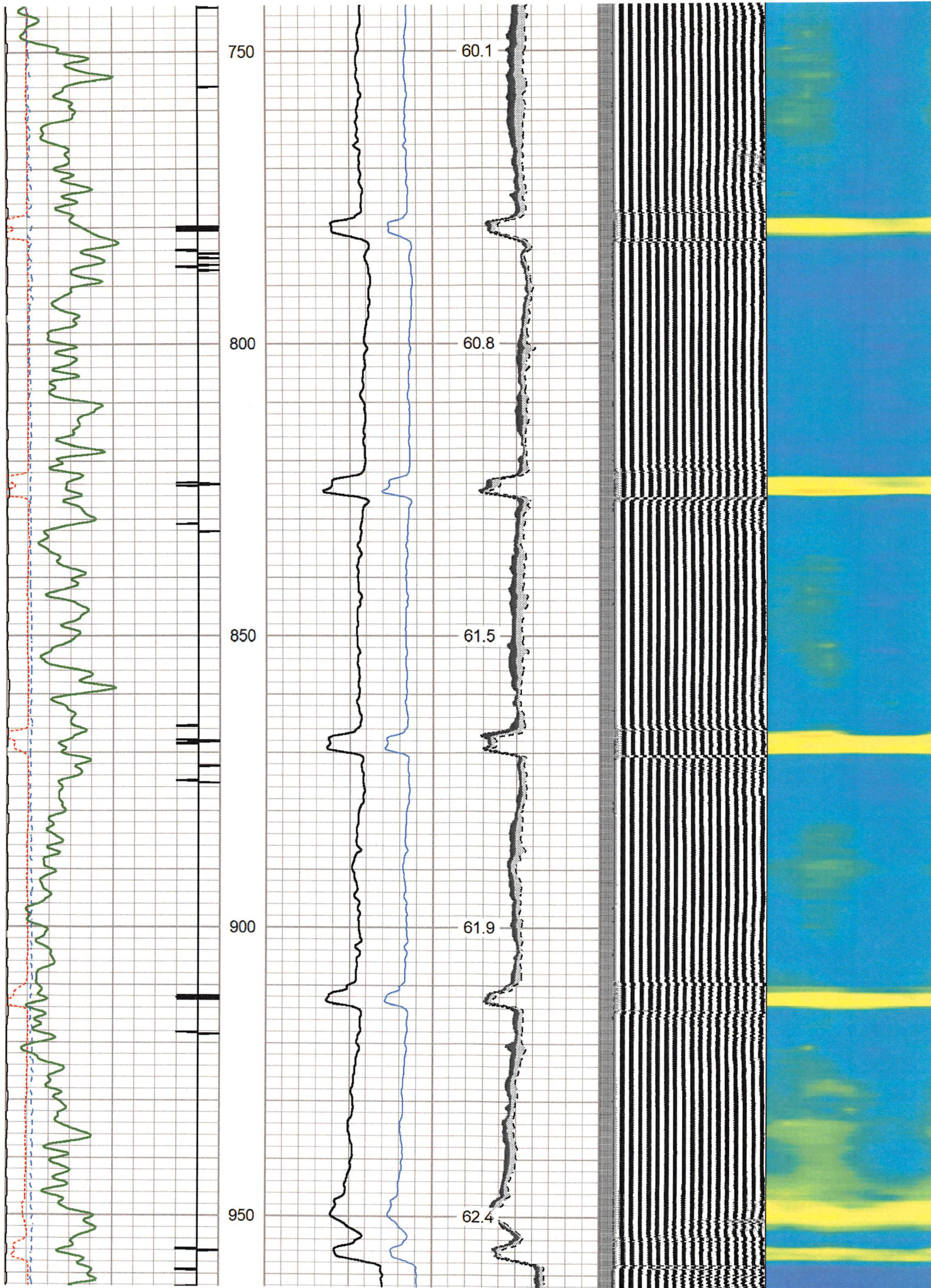
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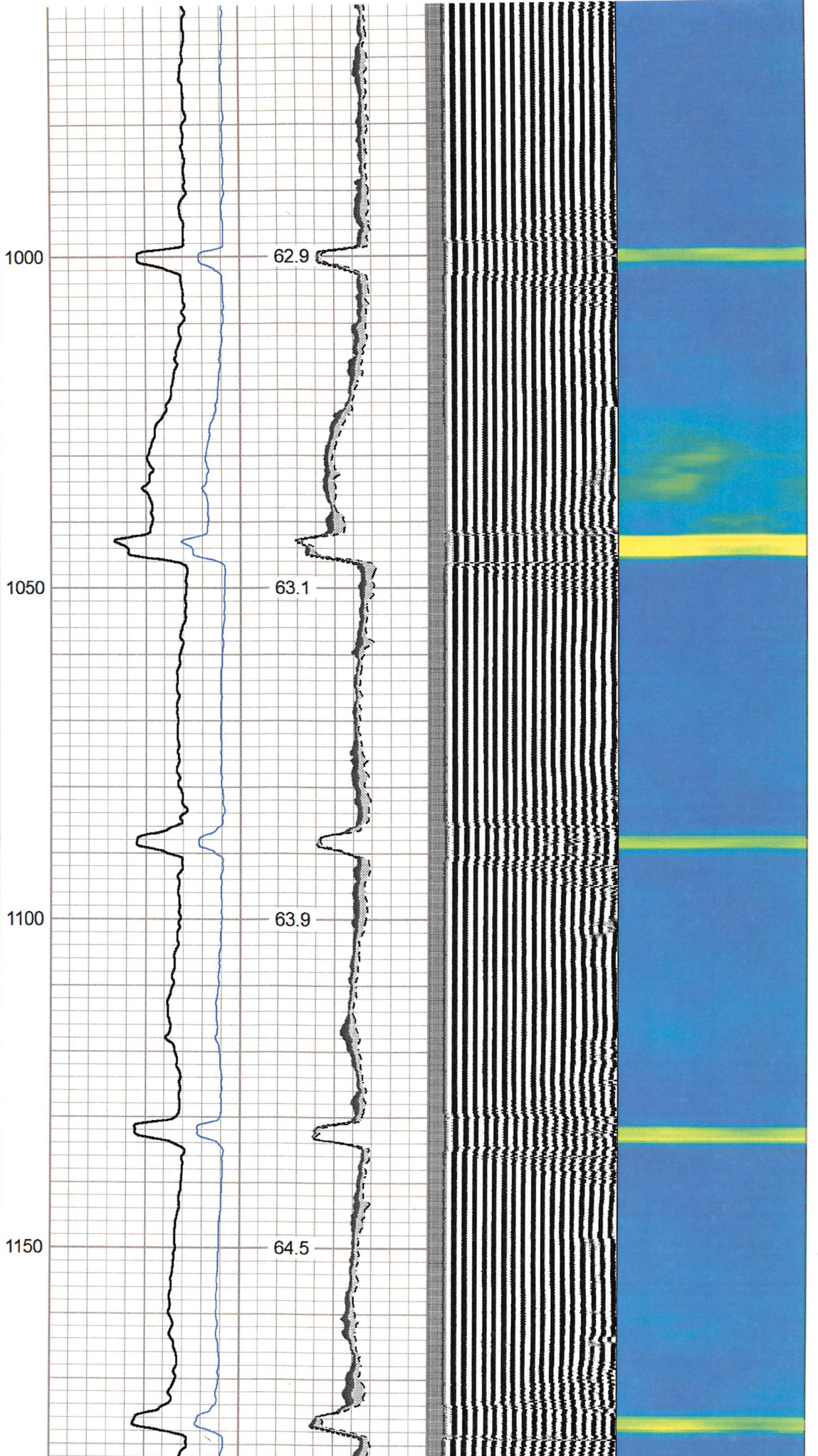
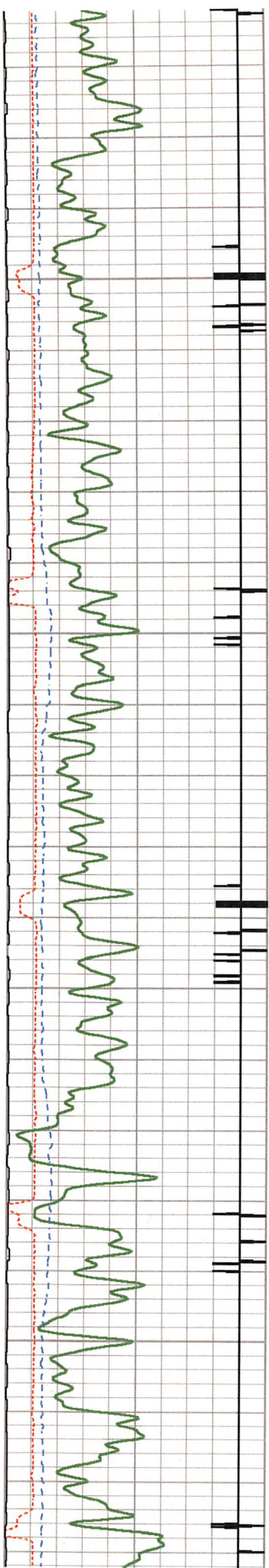
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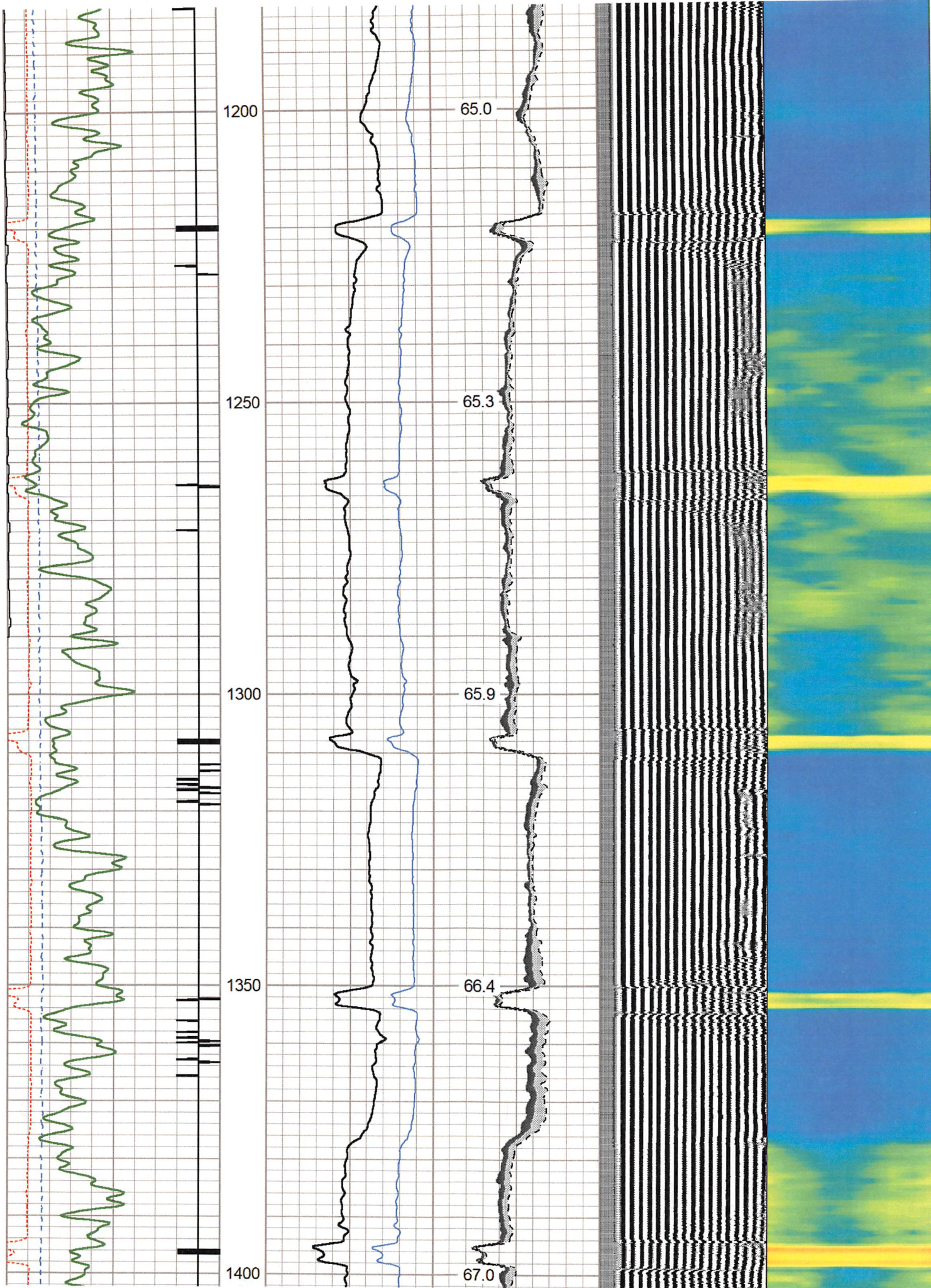
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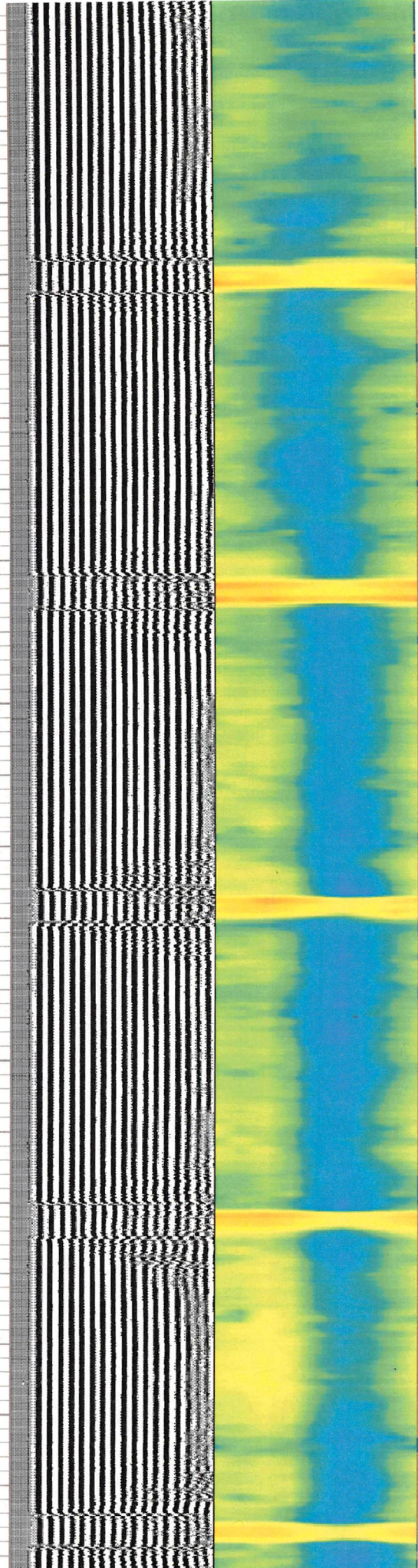
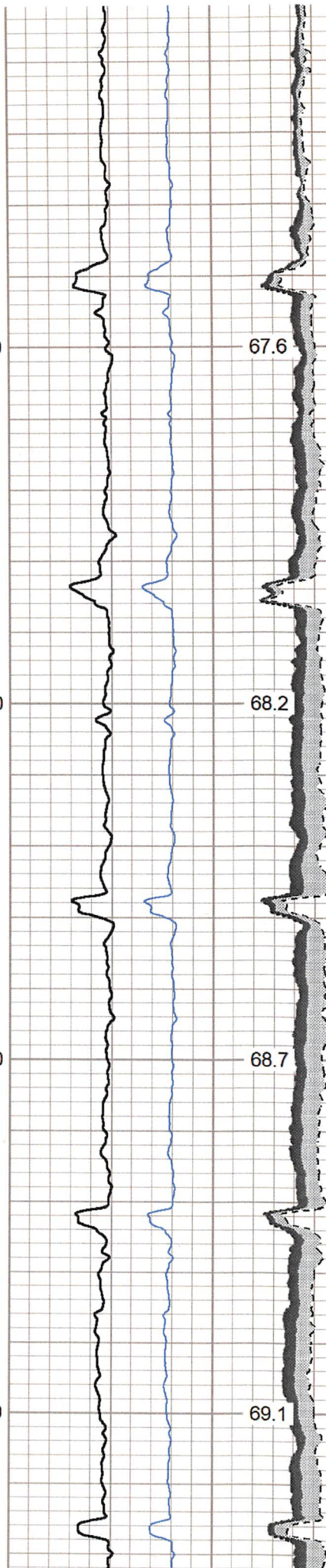
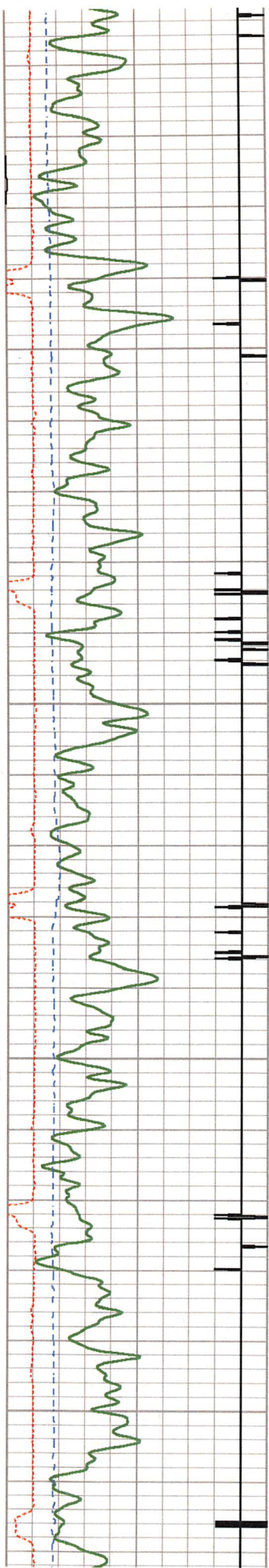
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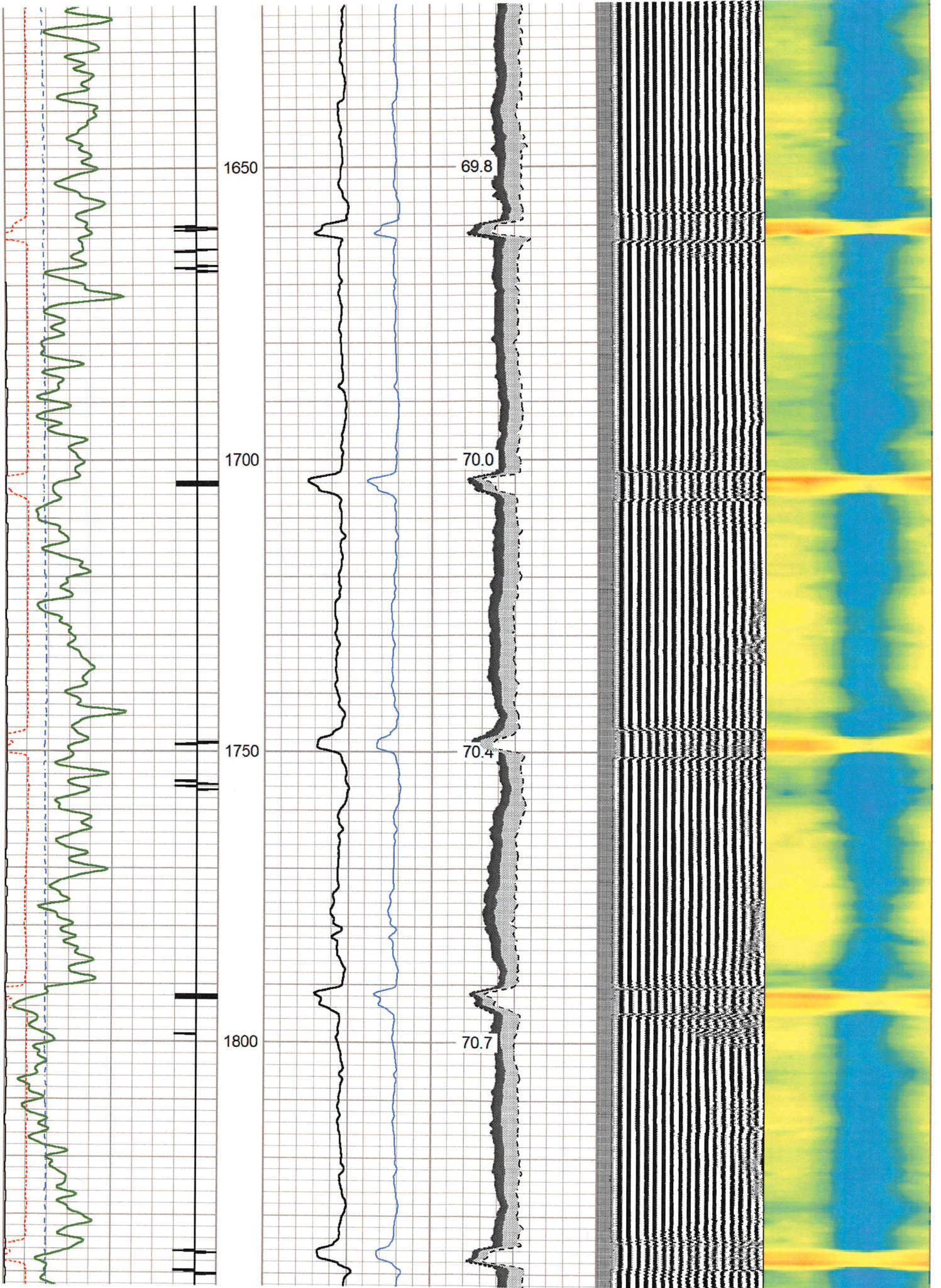


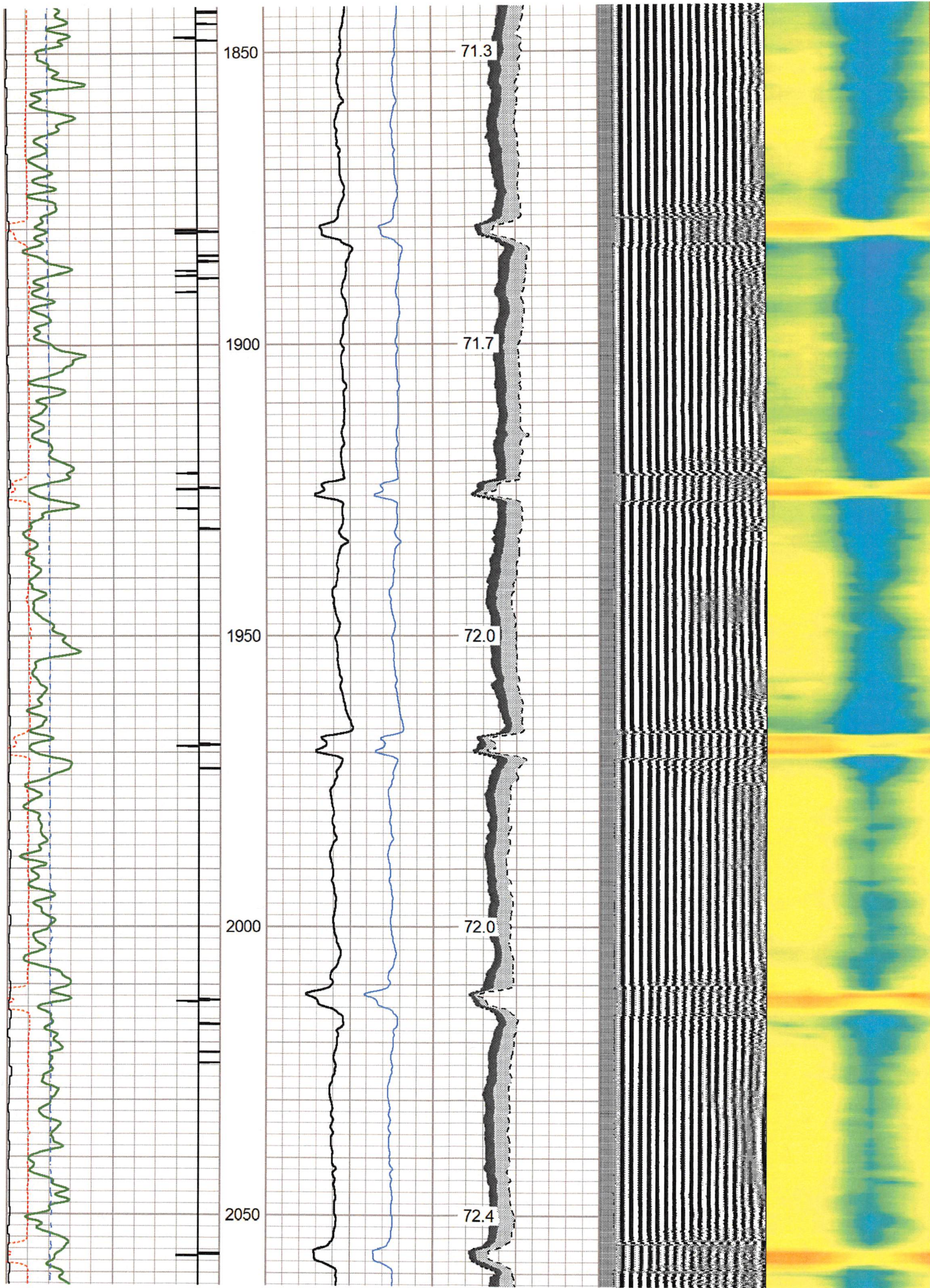


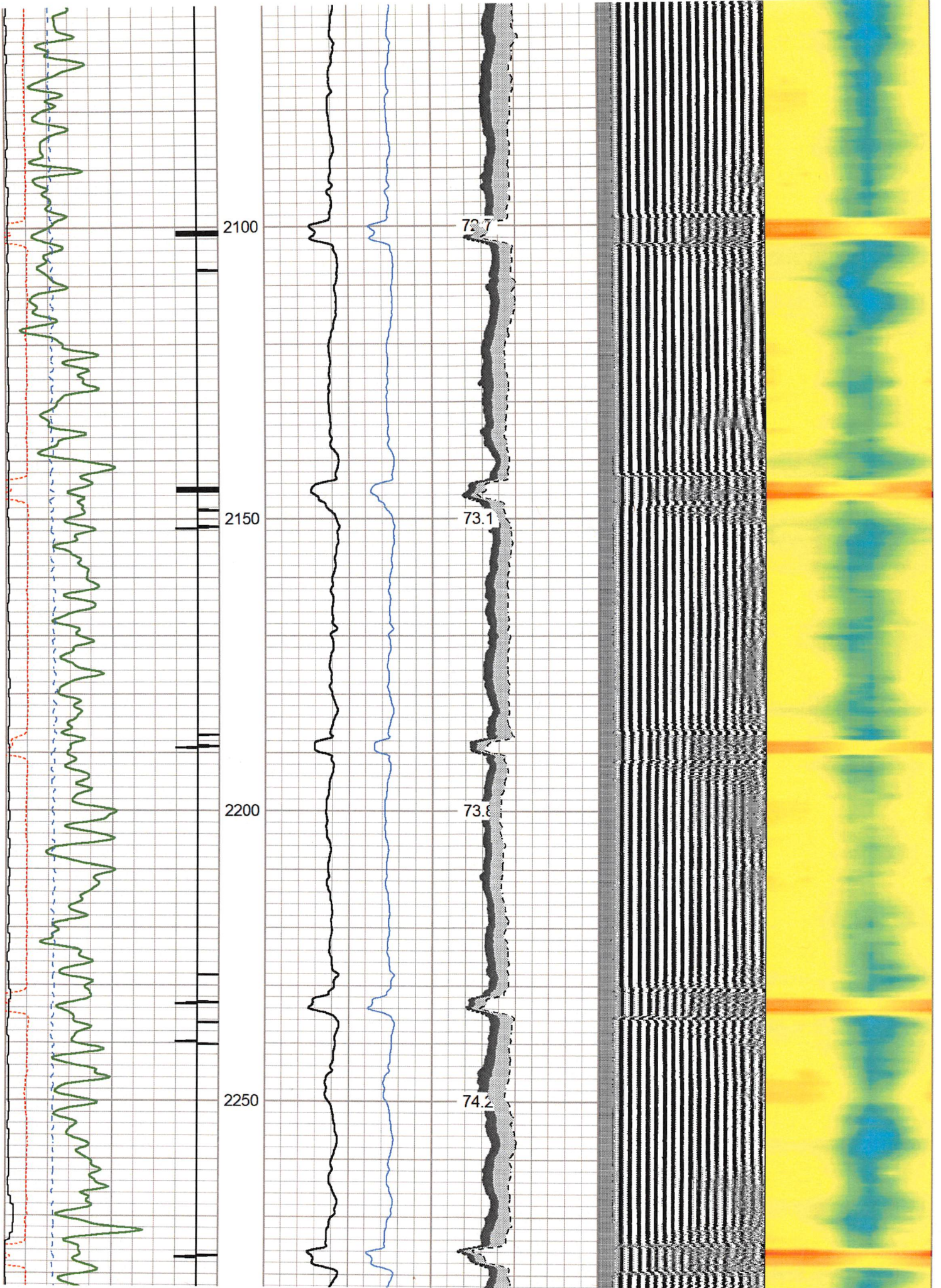


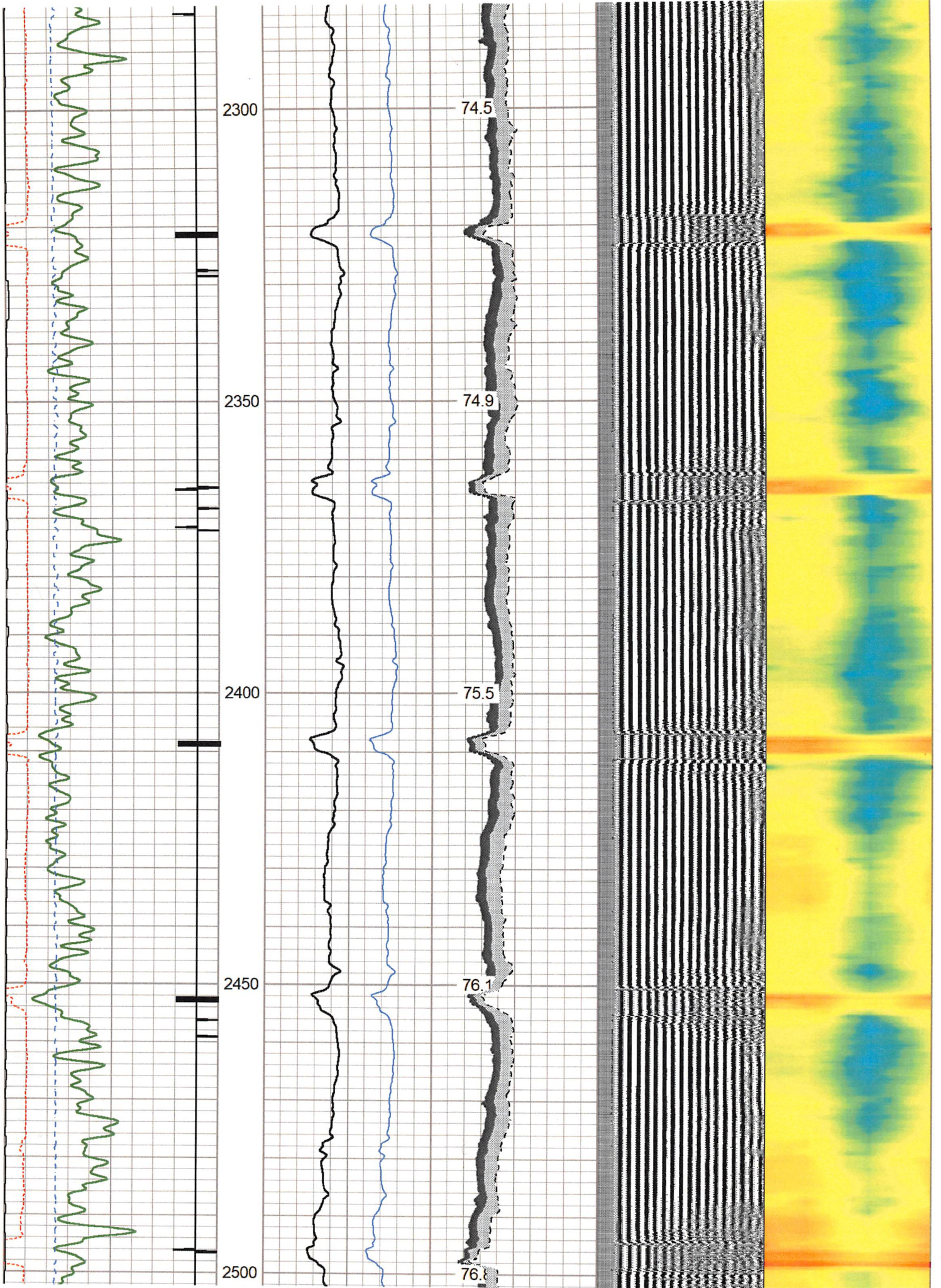


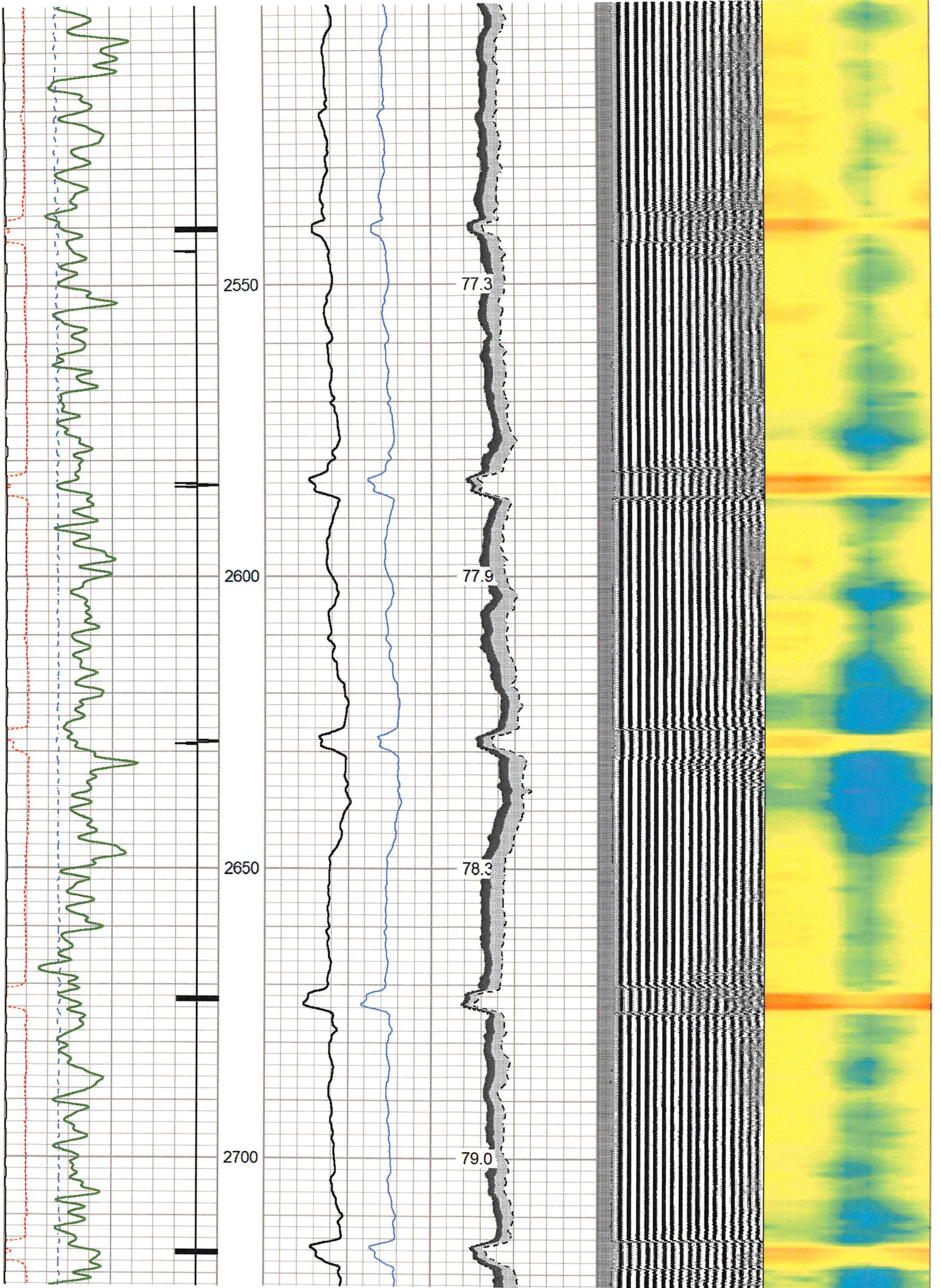


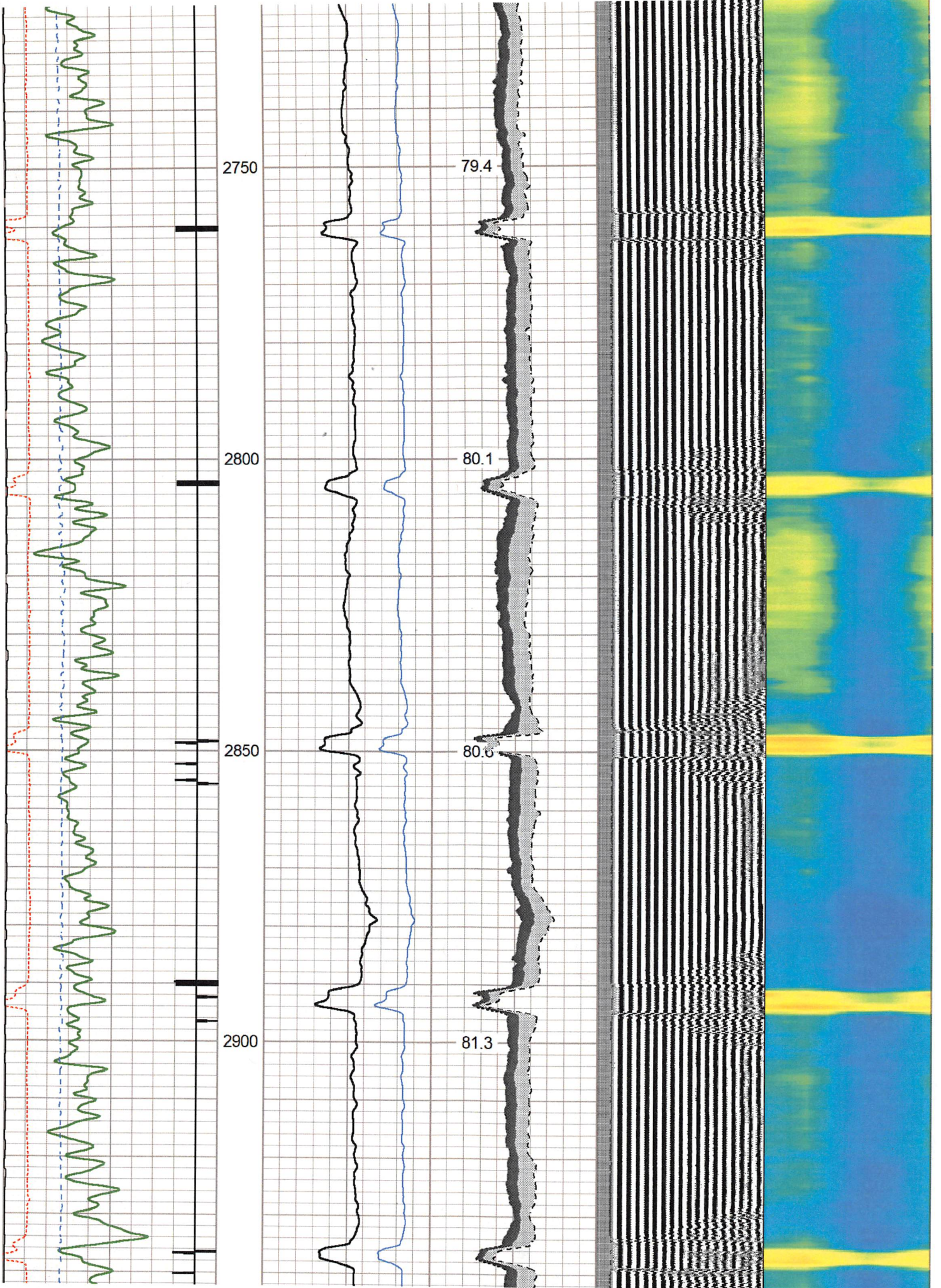


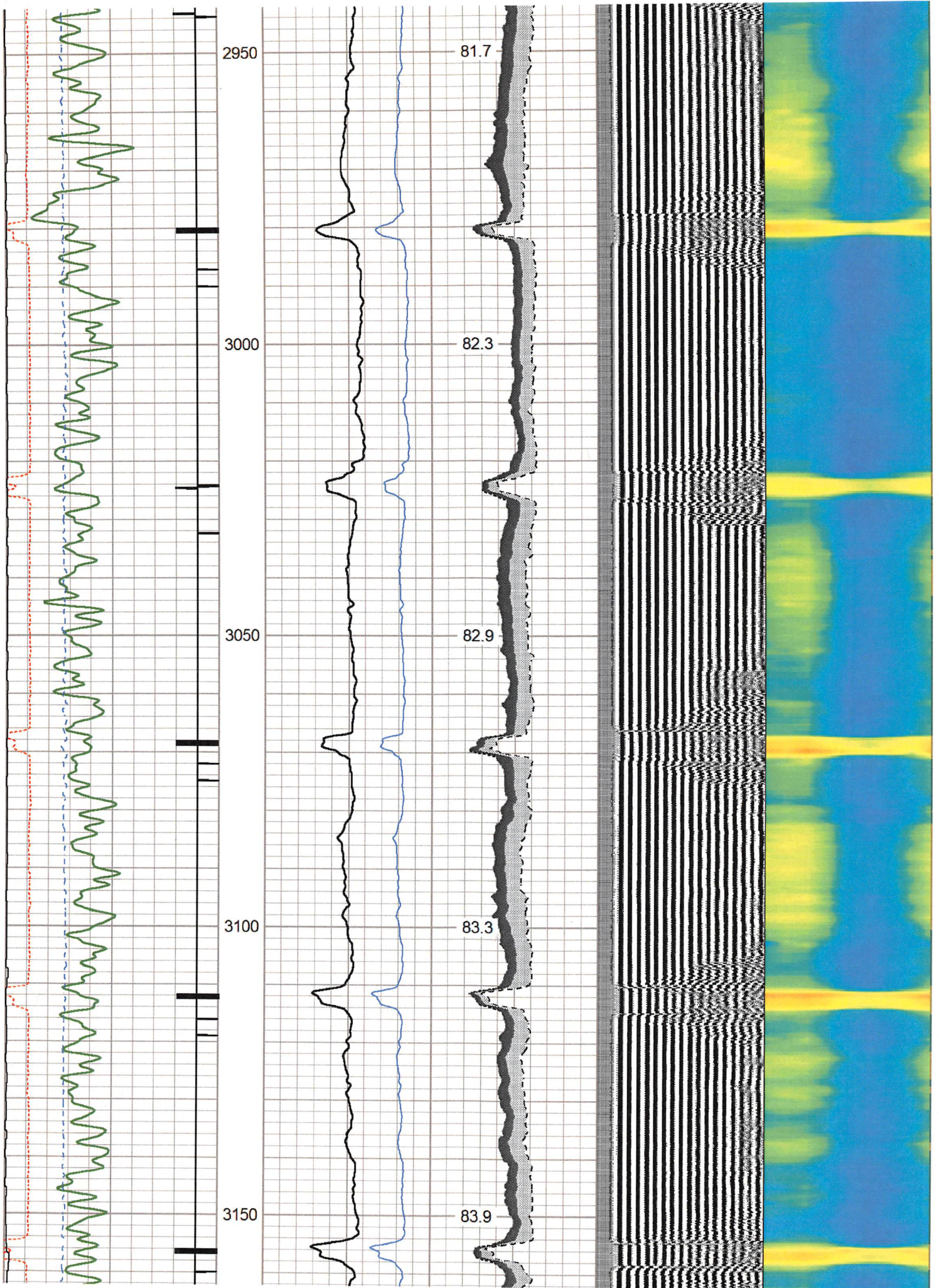


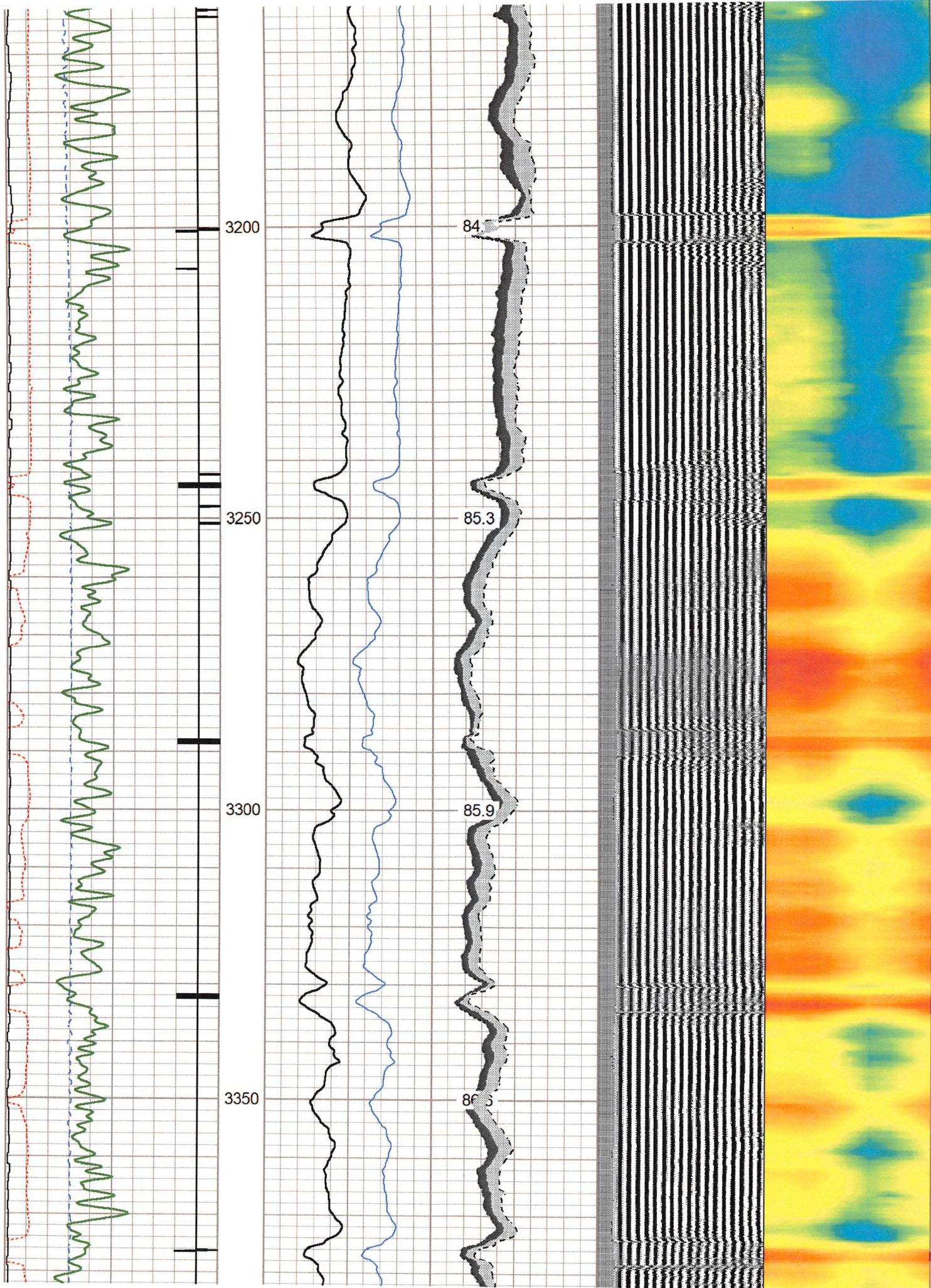


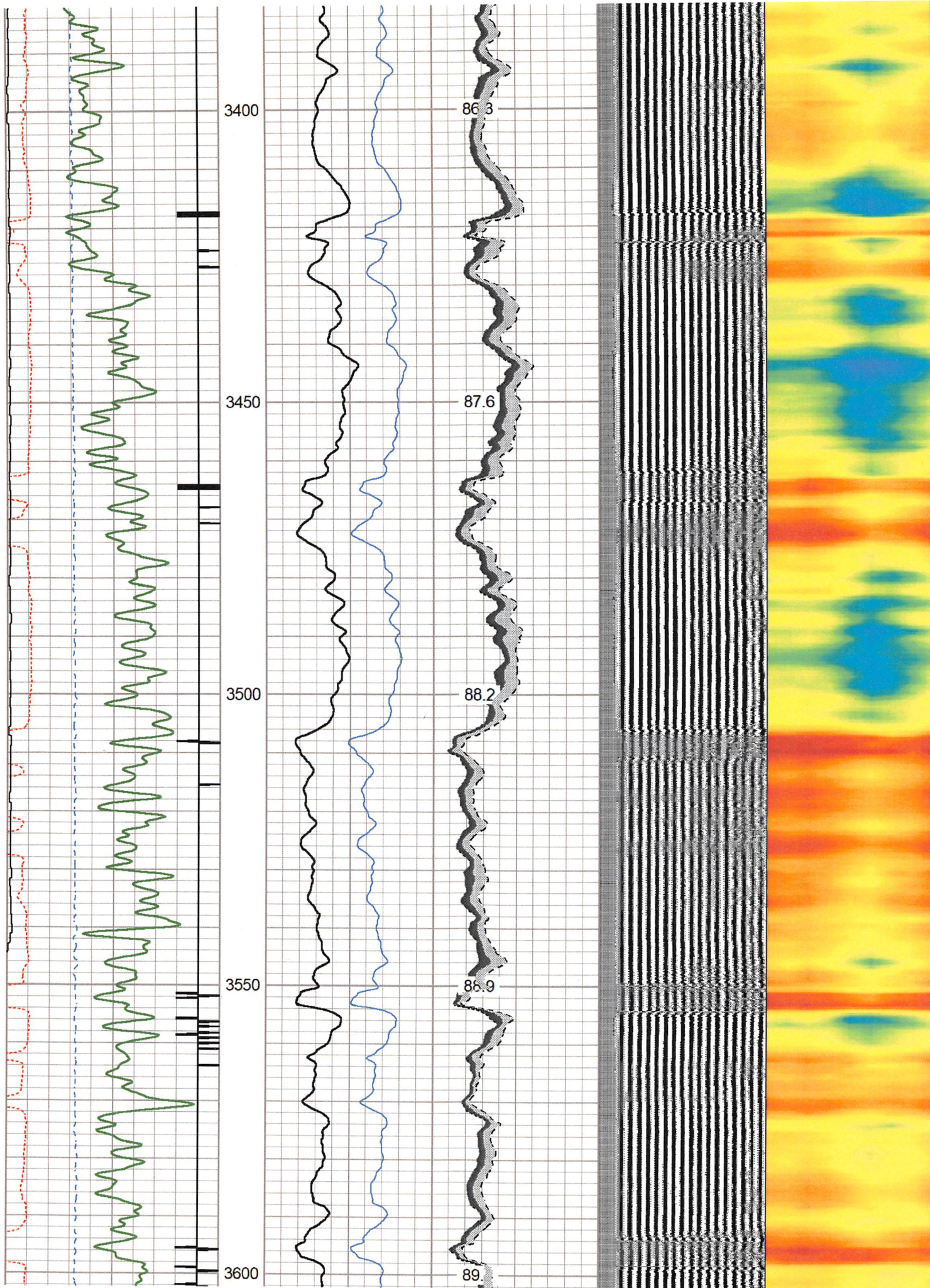


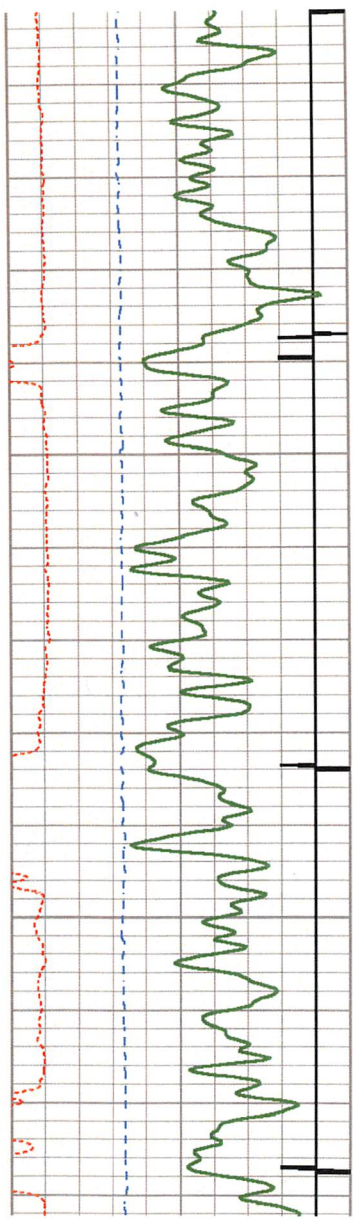






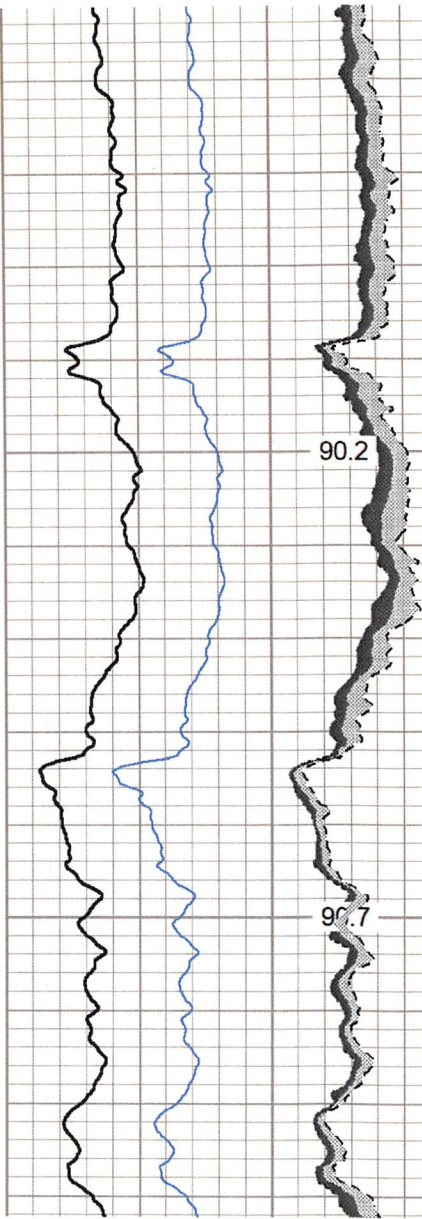






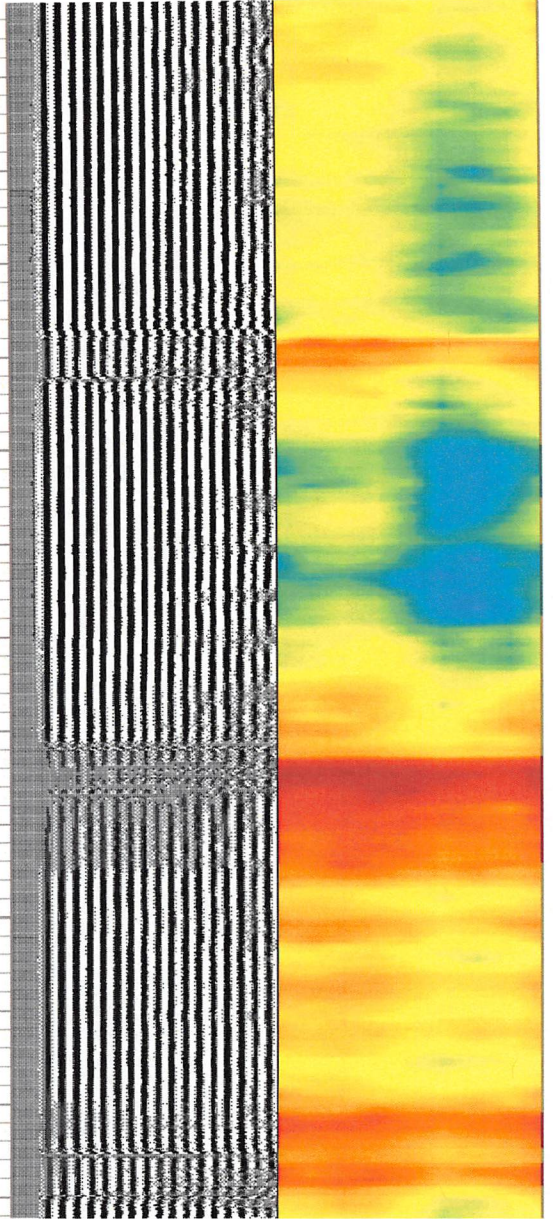
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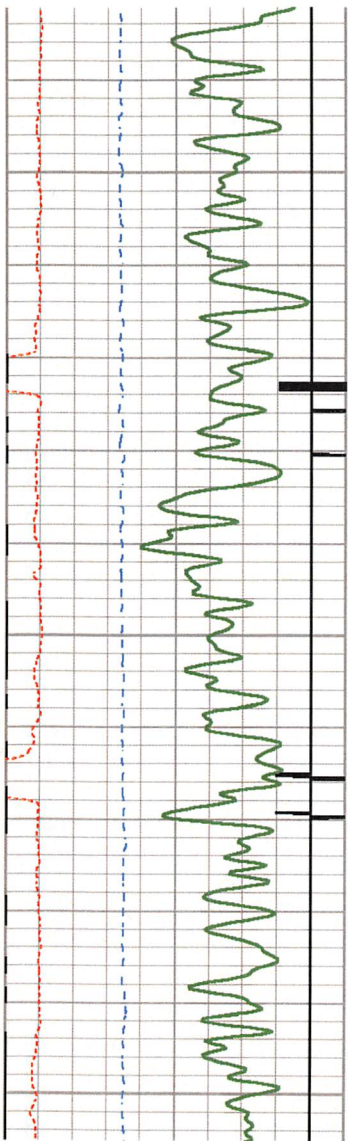
3700



90.2

90.7

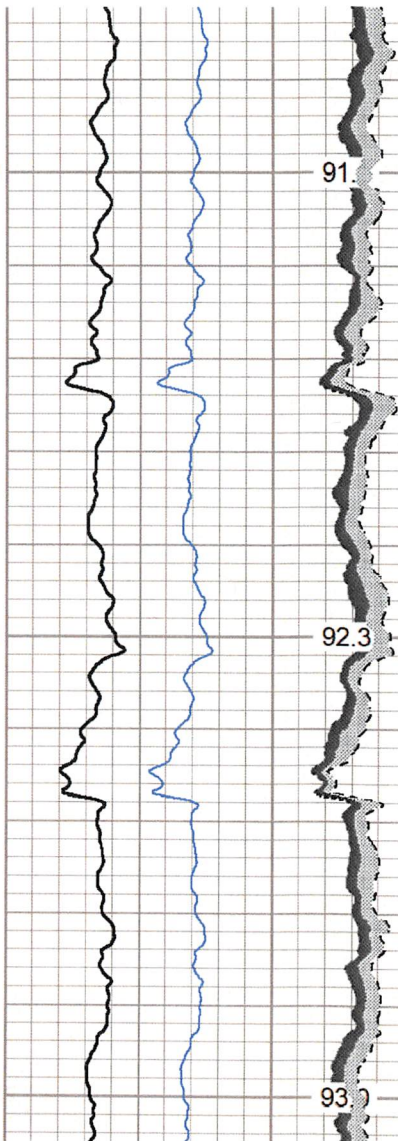




3750

3800

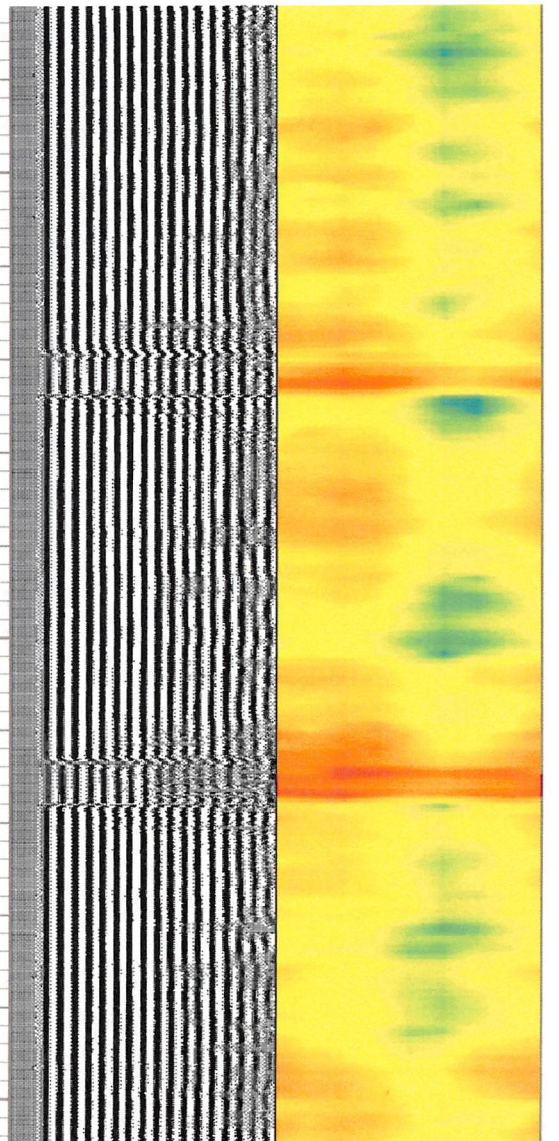
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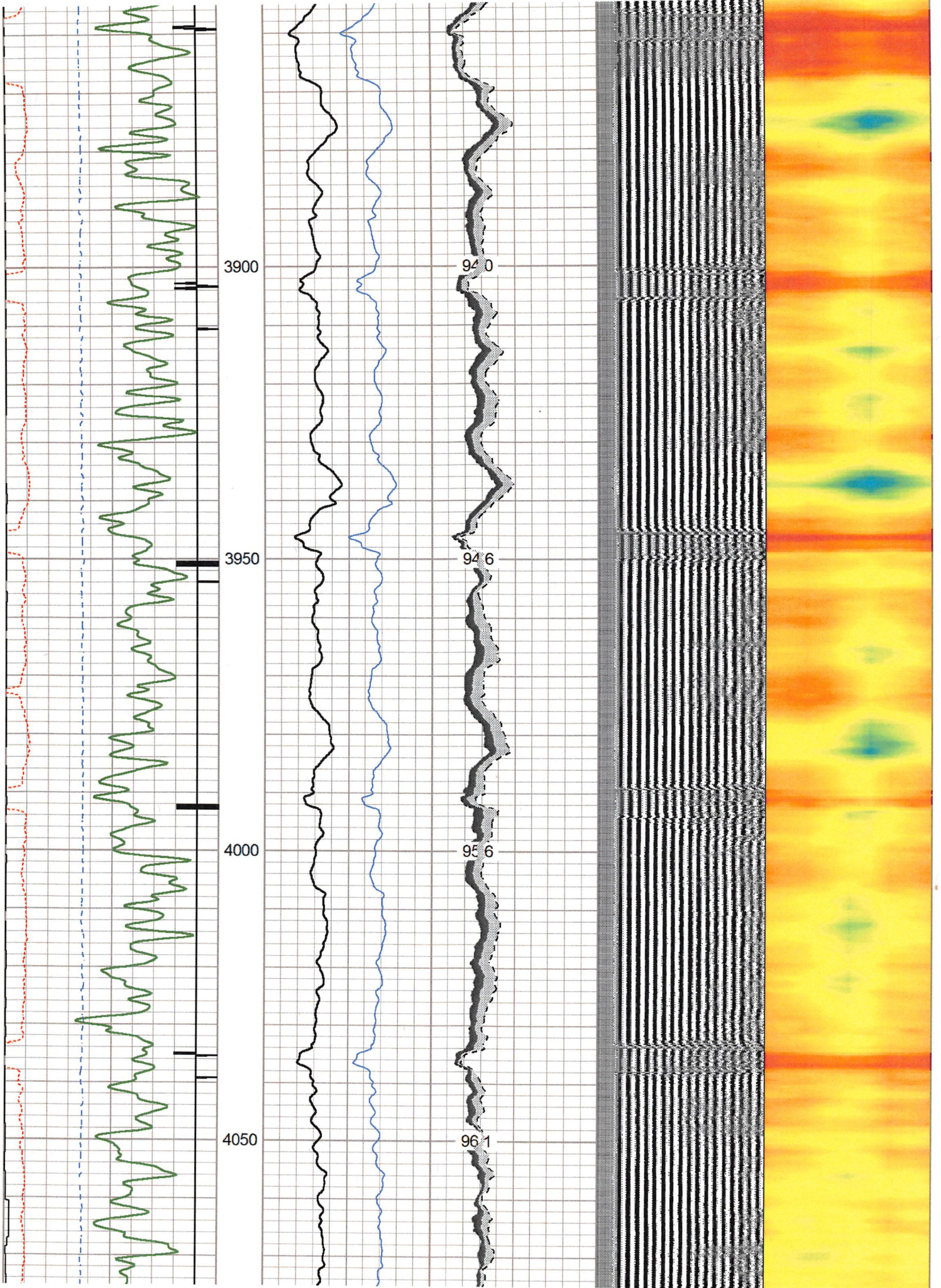


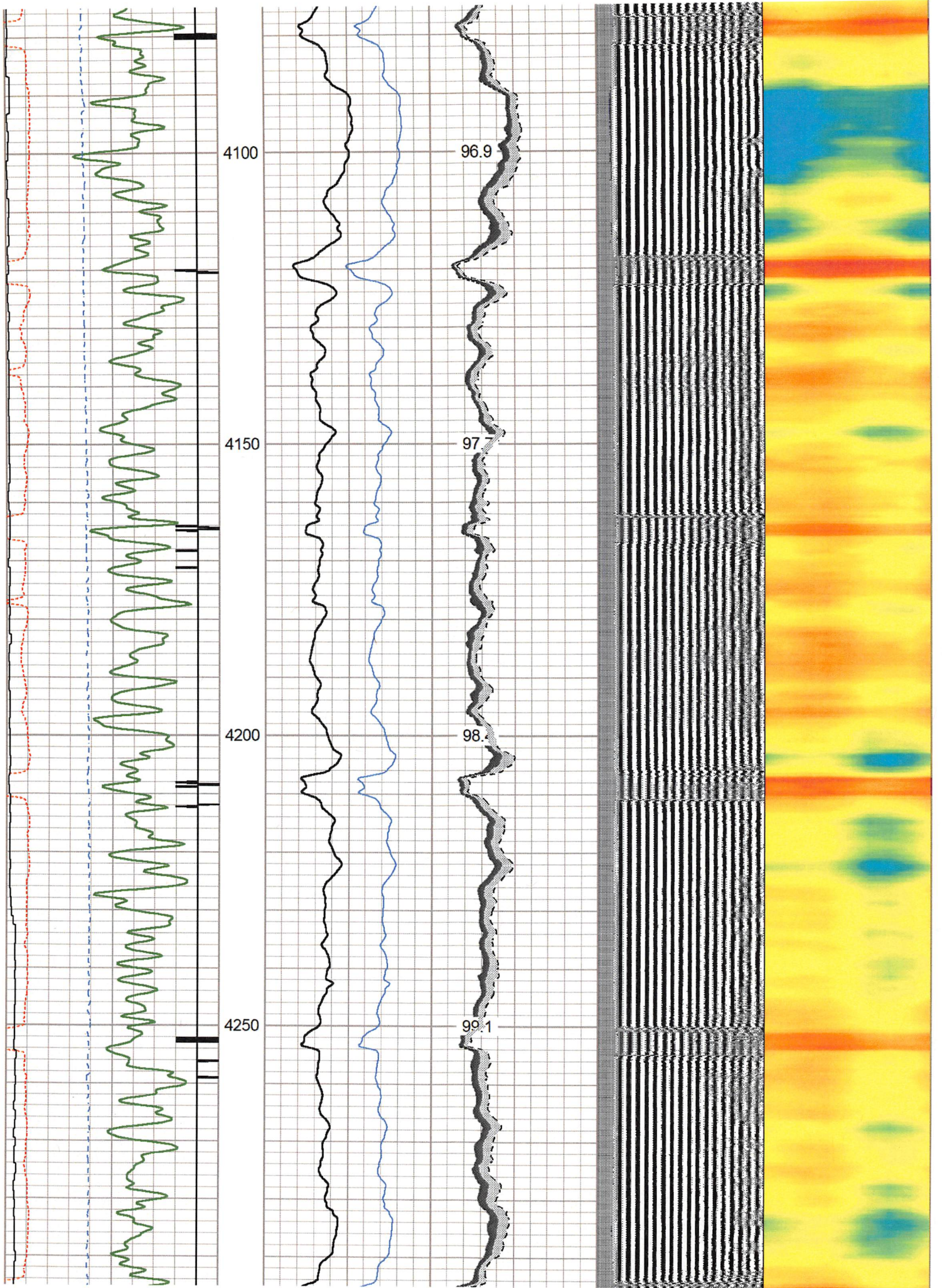
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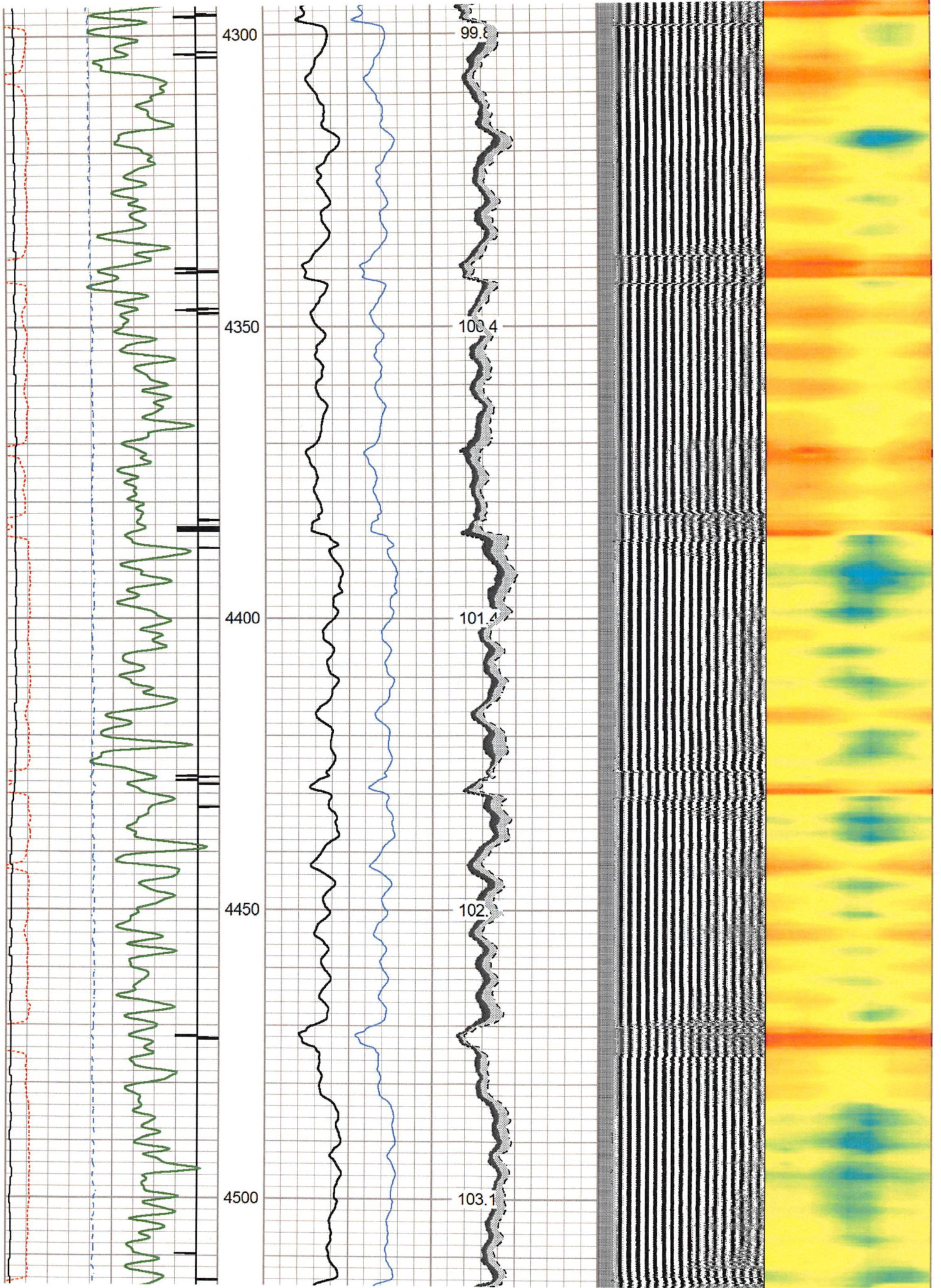
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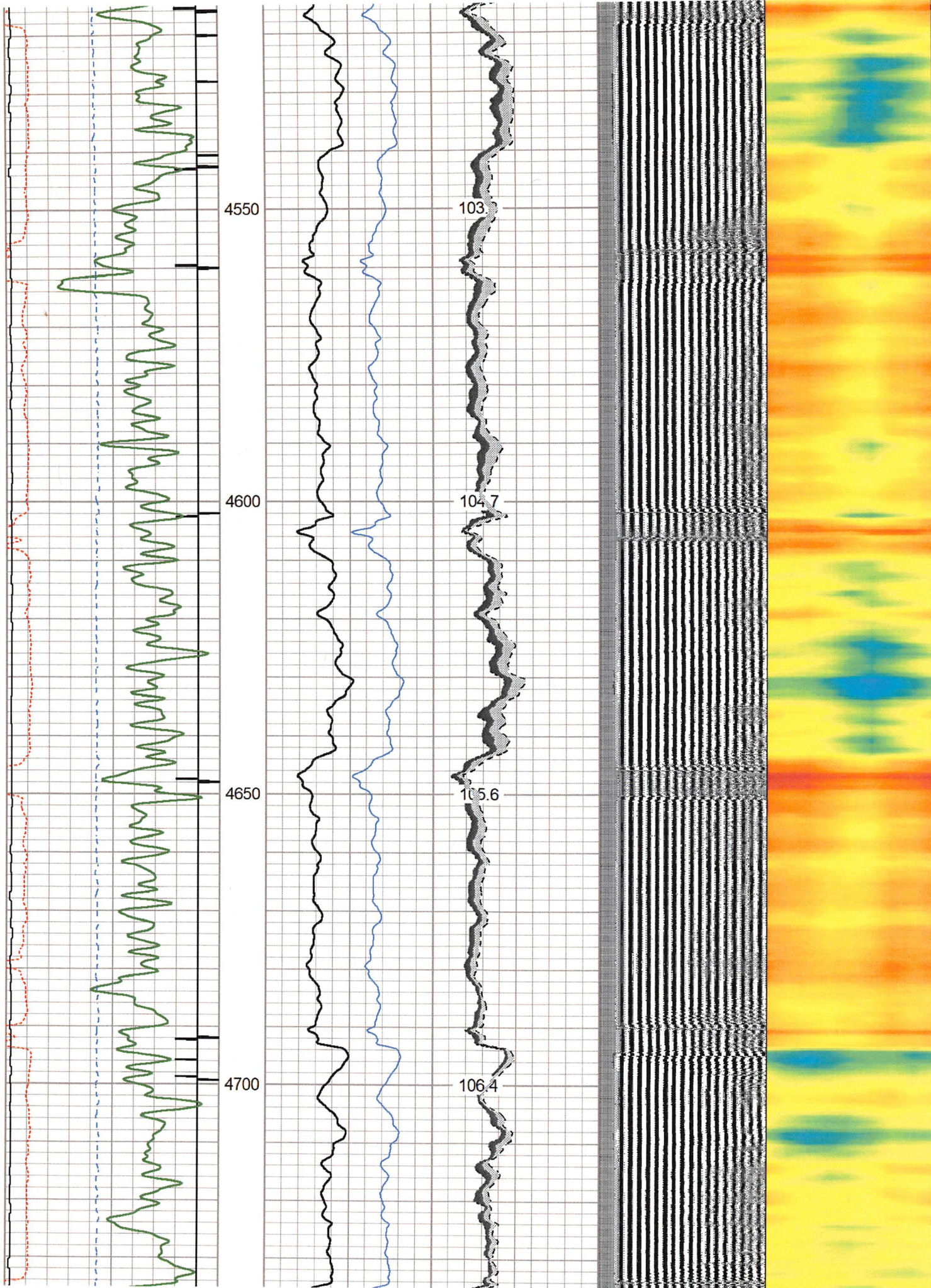
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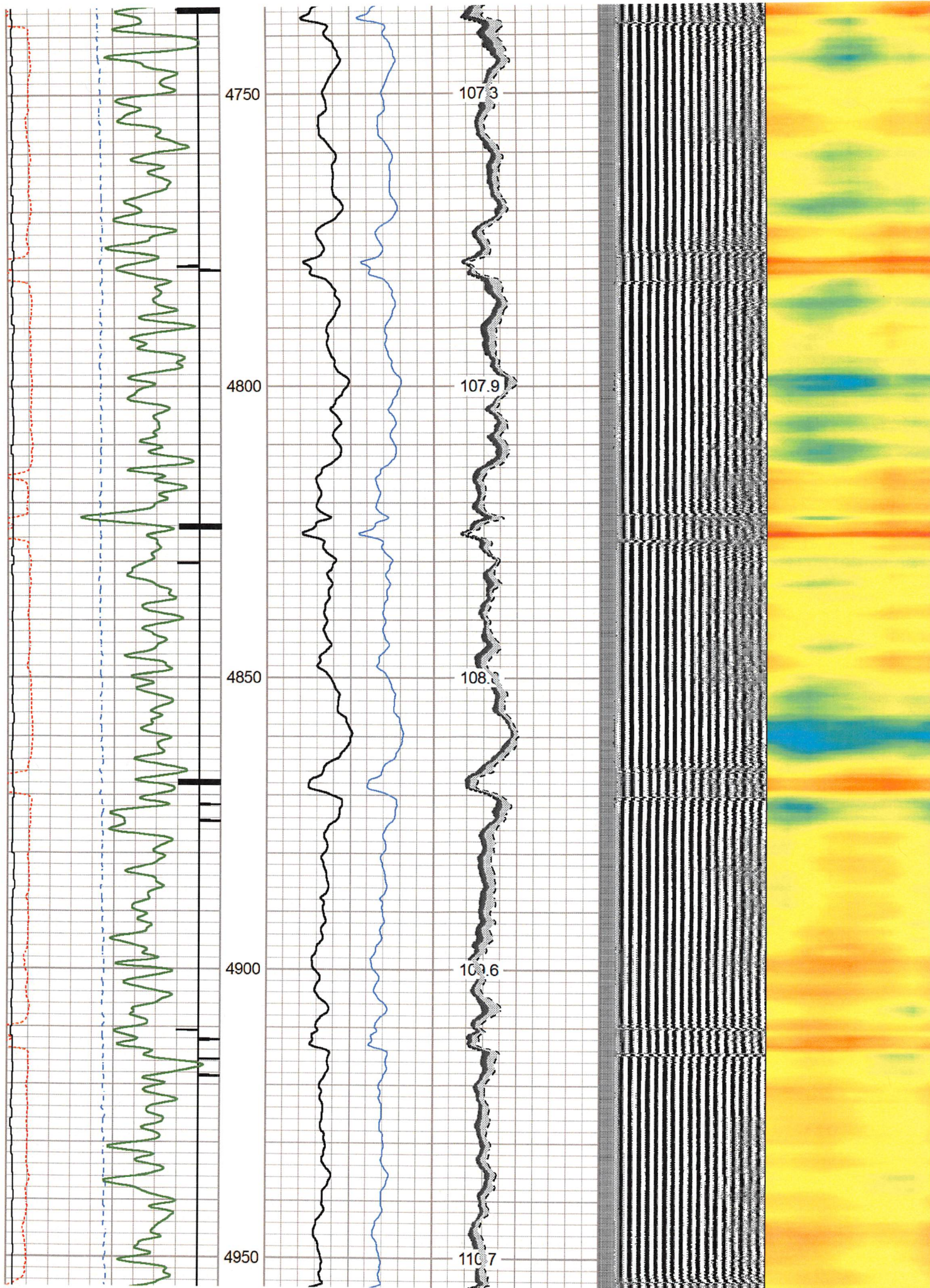


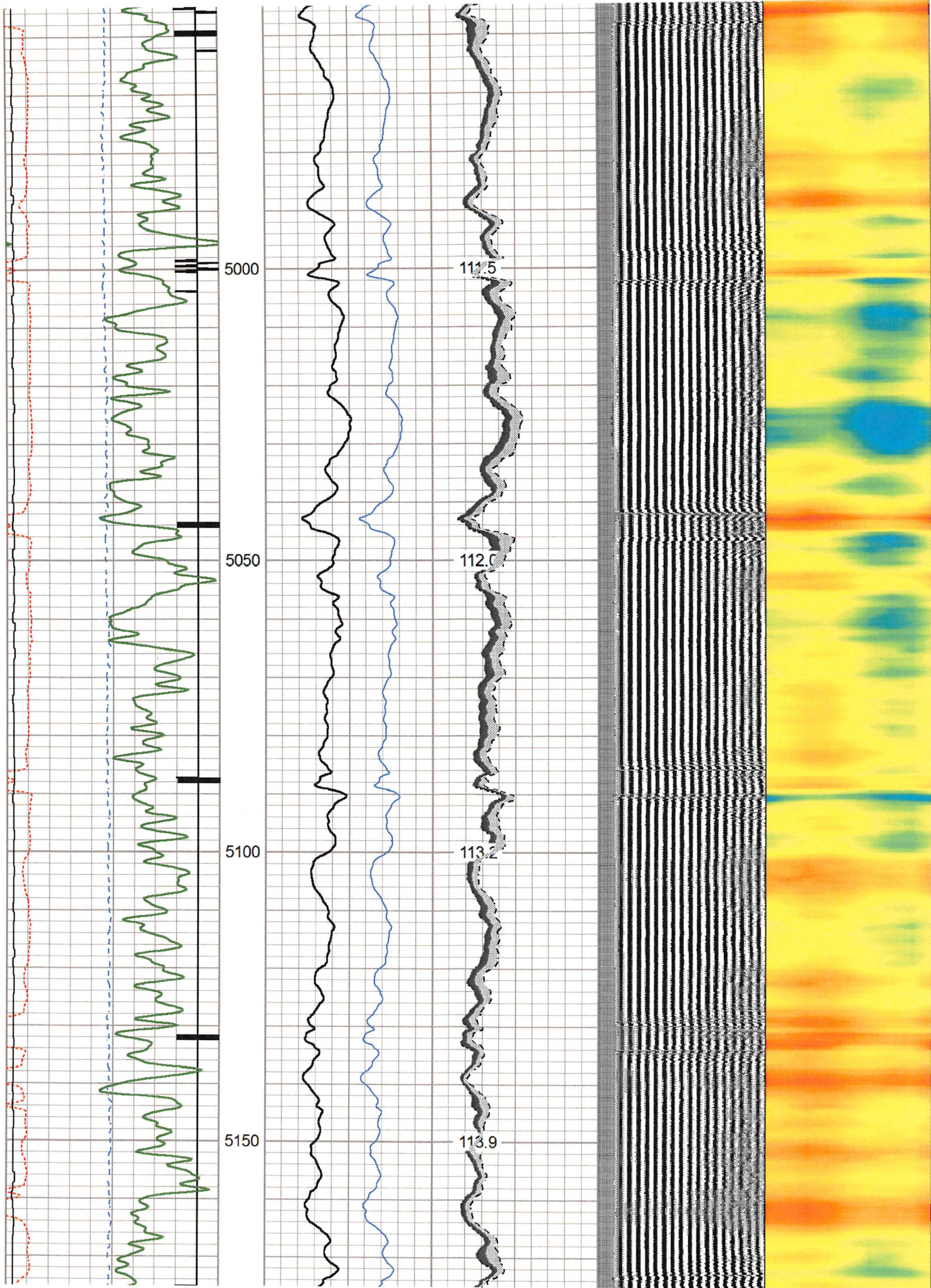


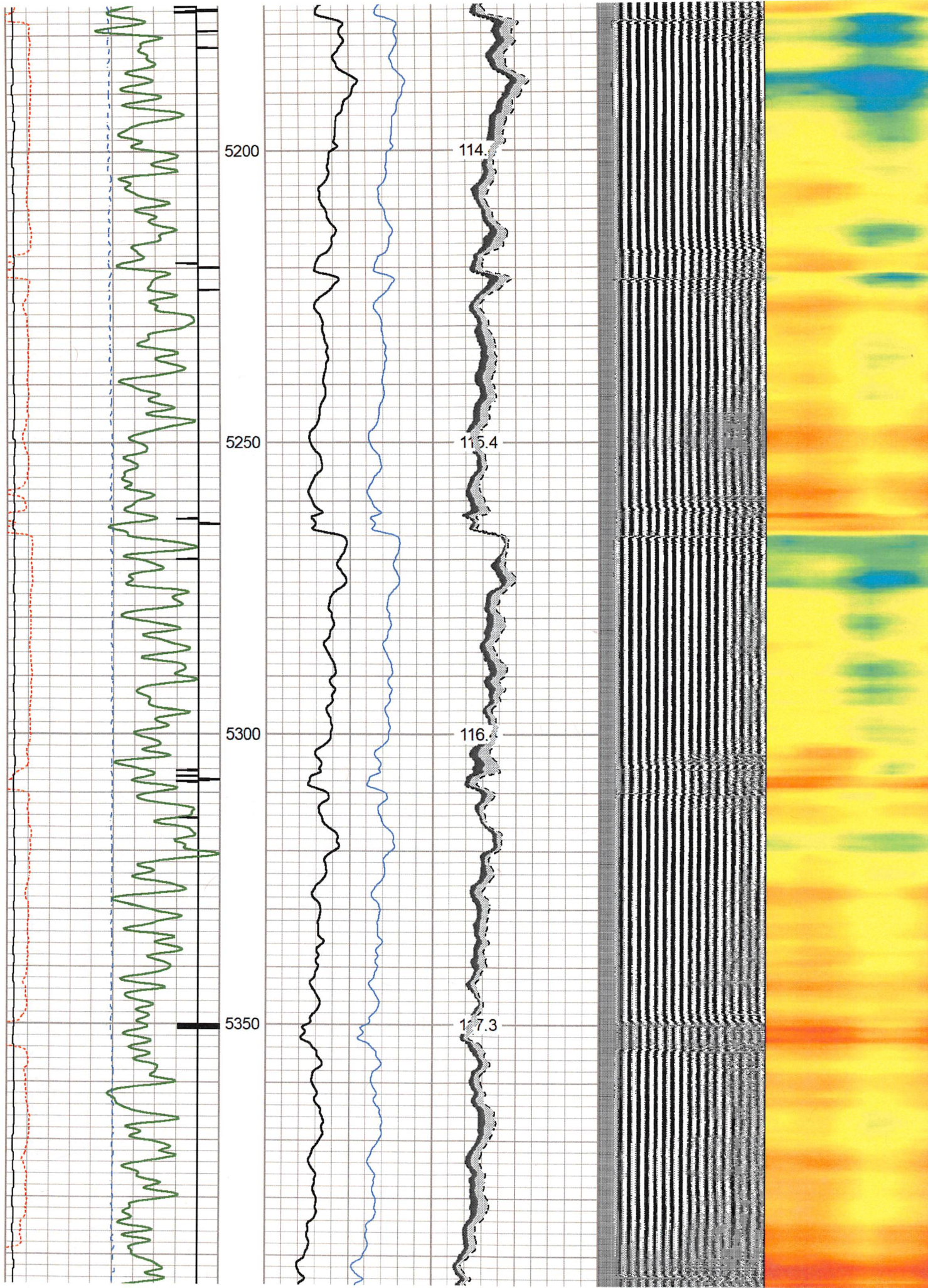


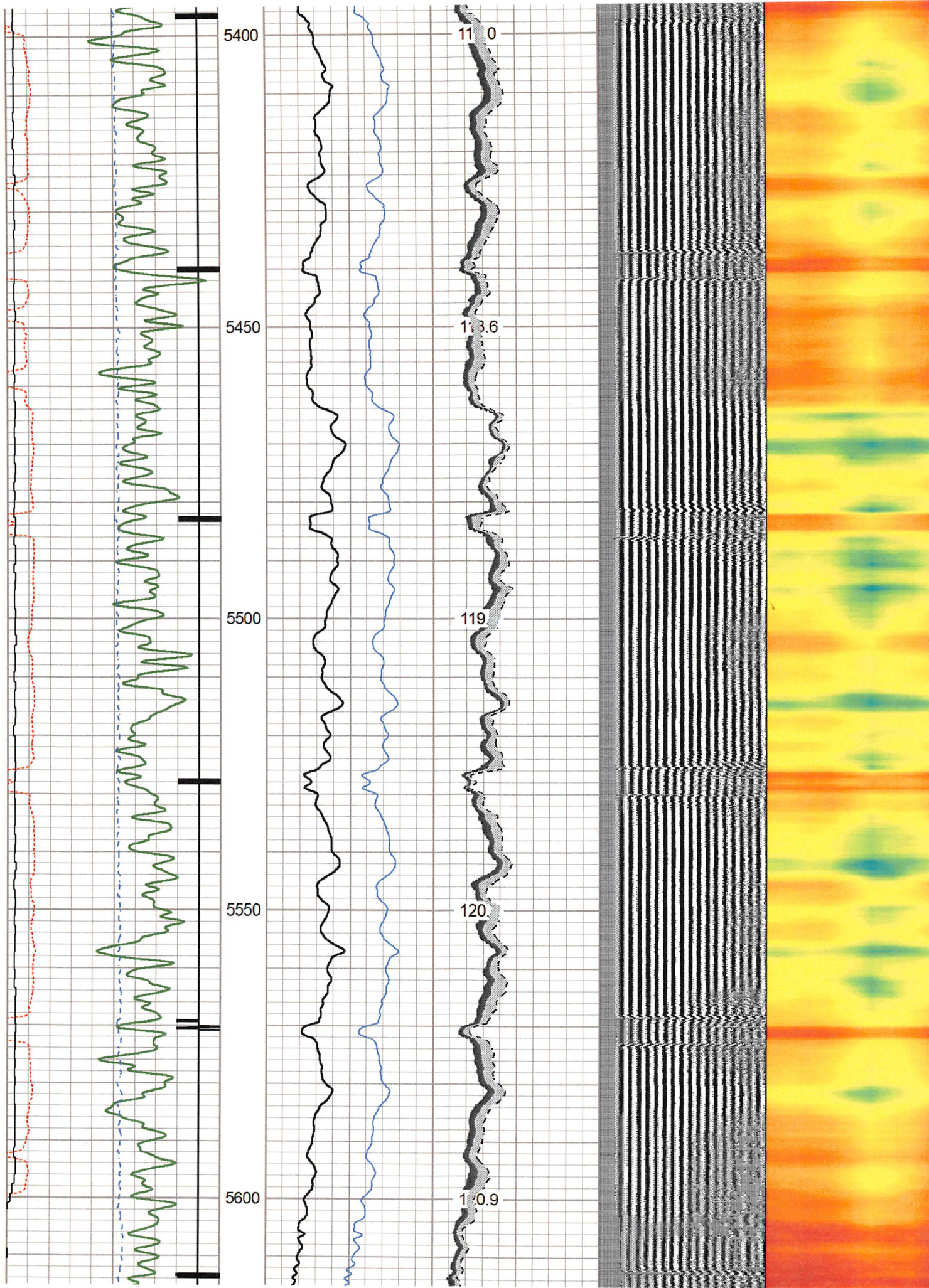


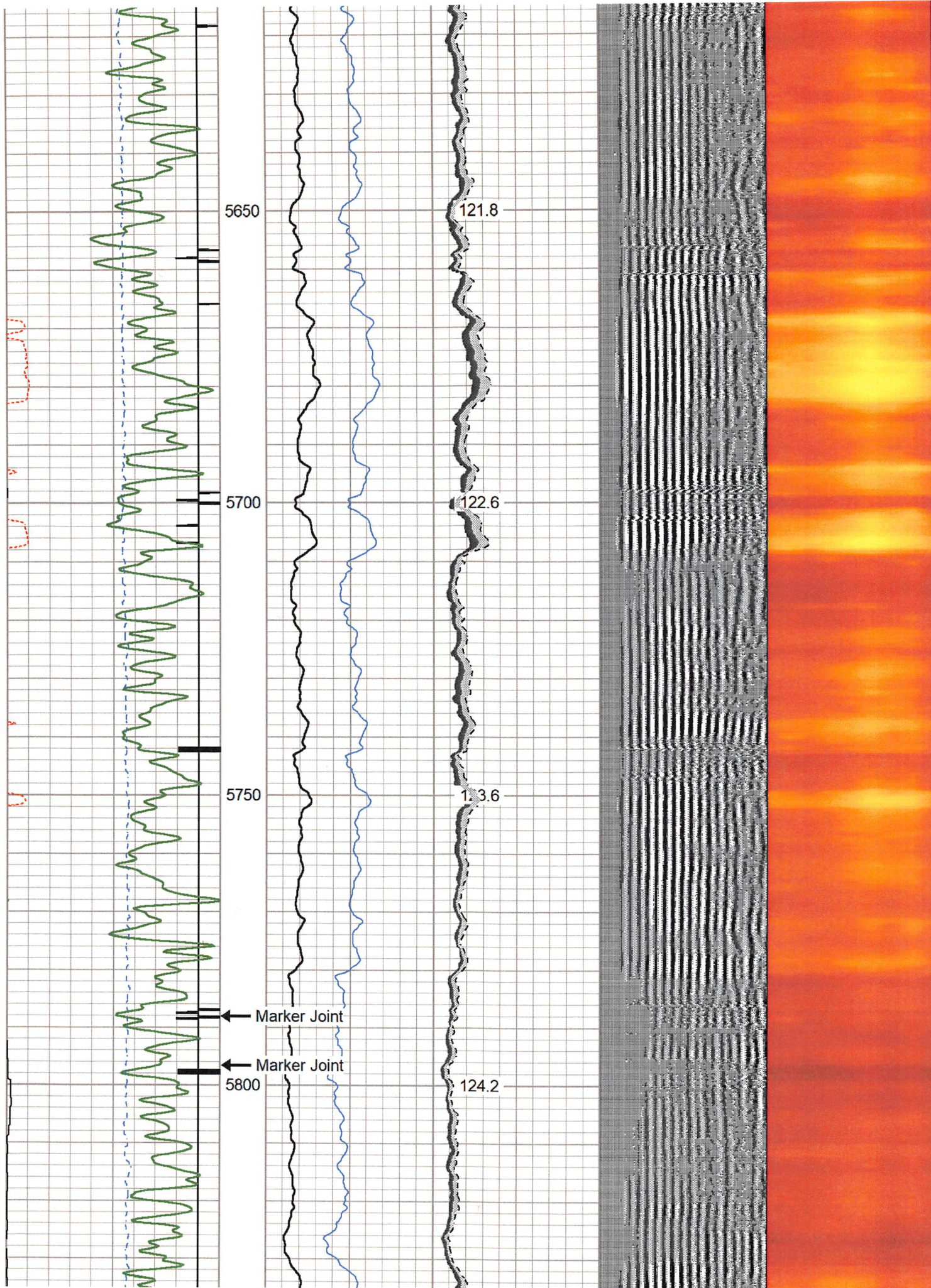


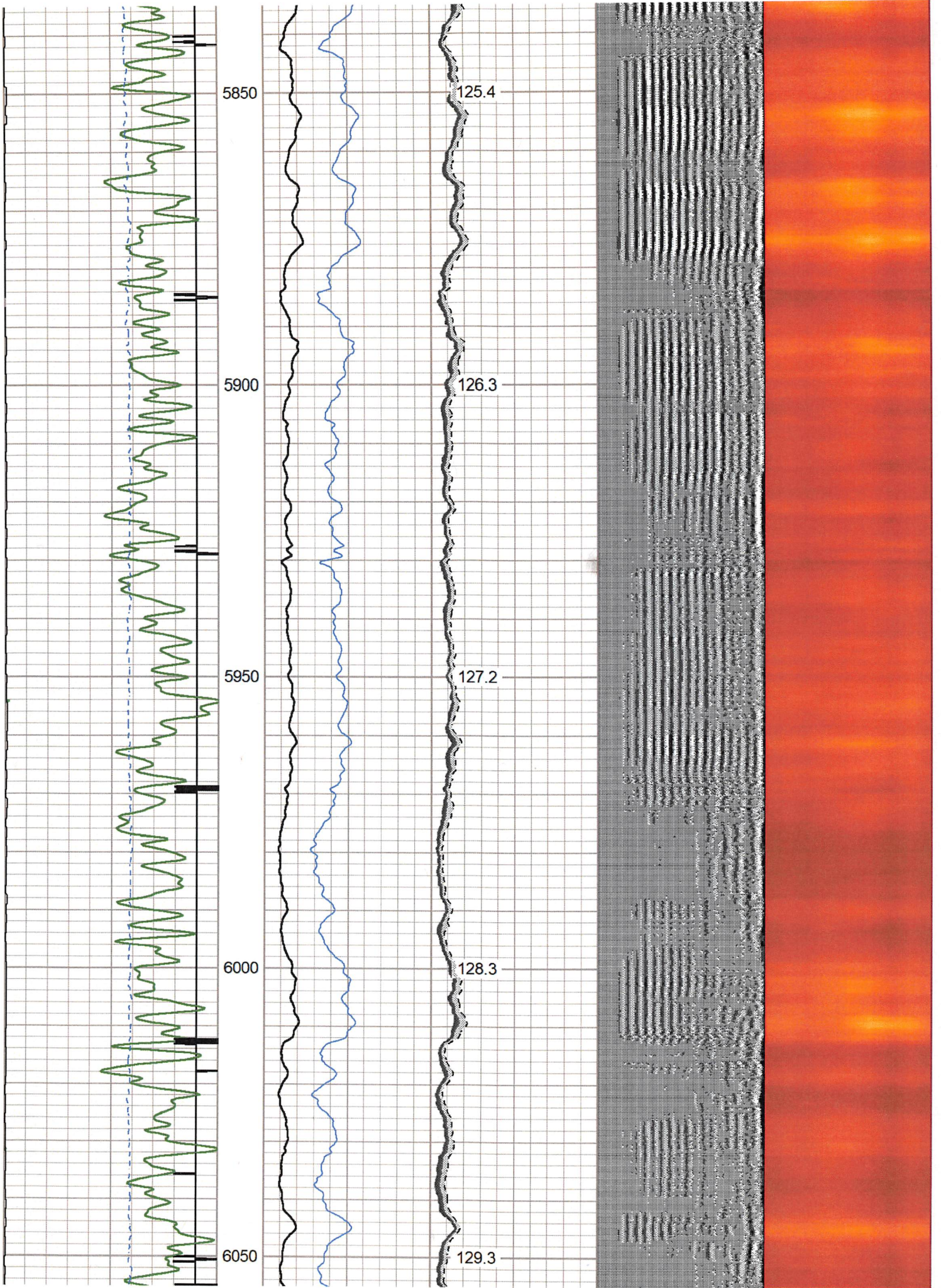


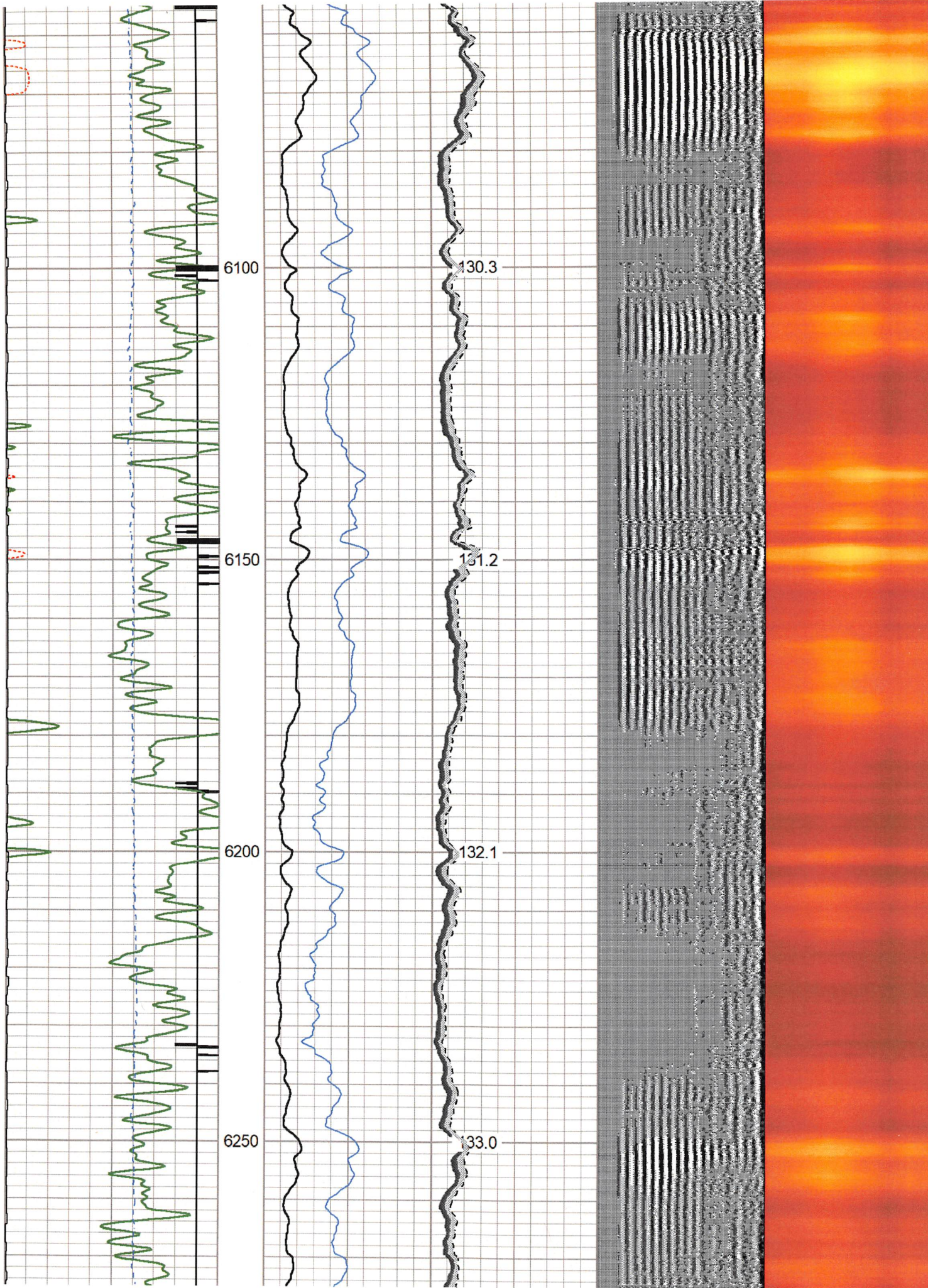


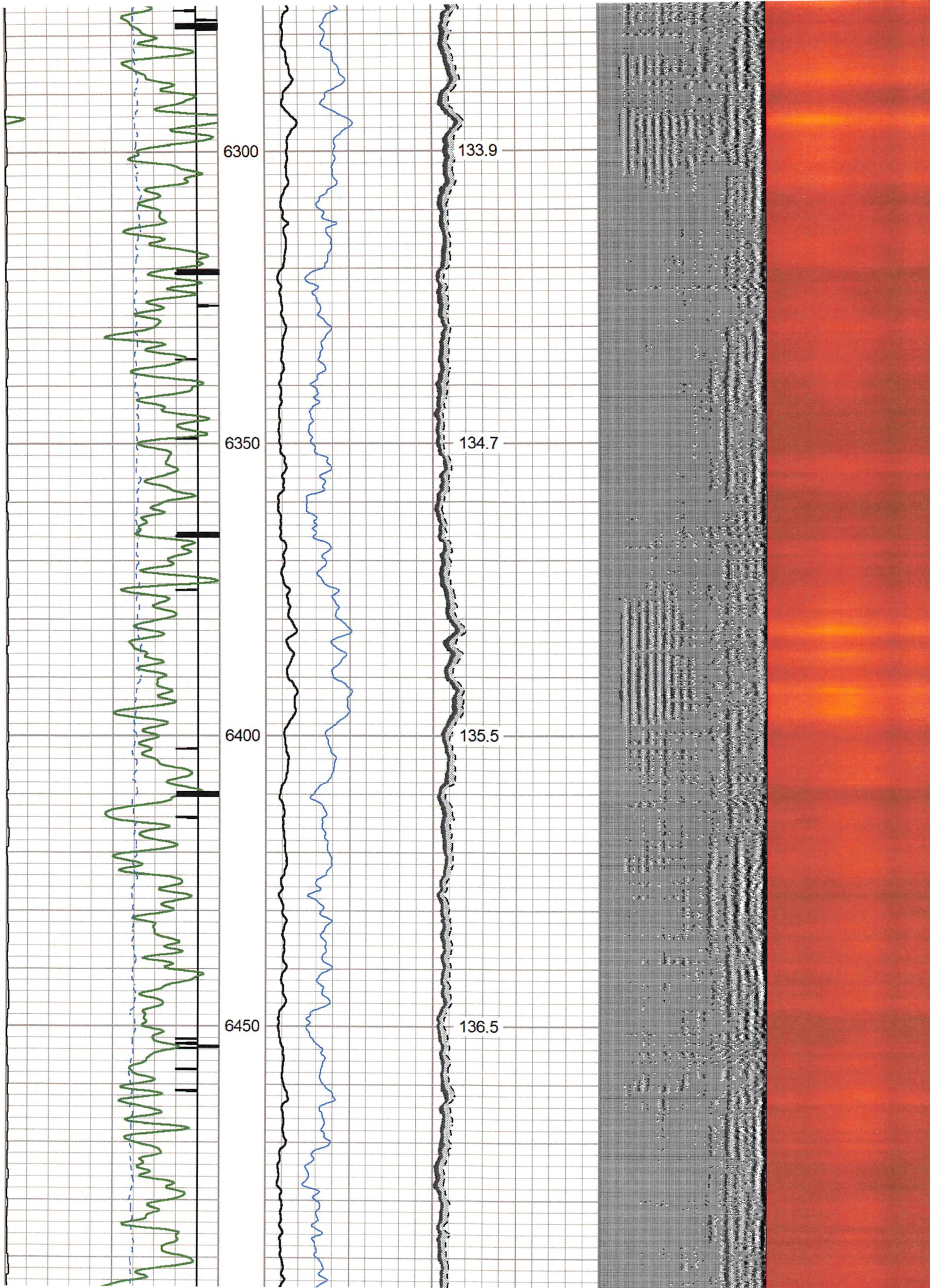


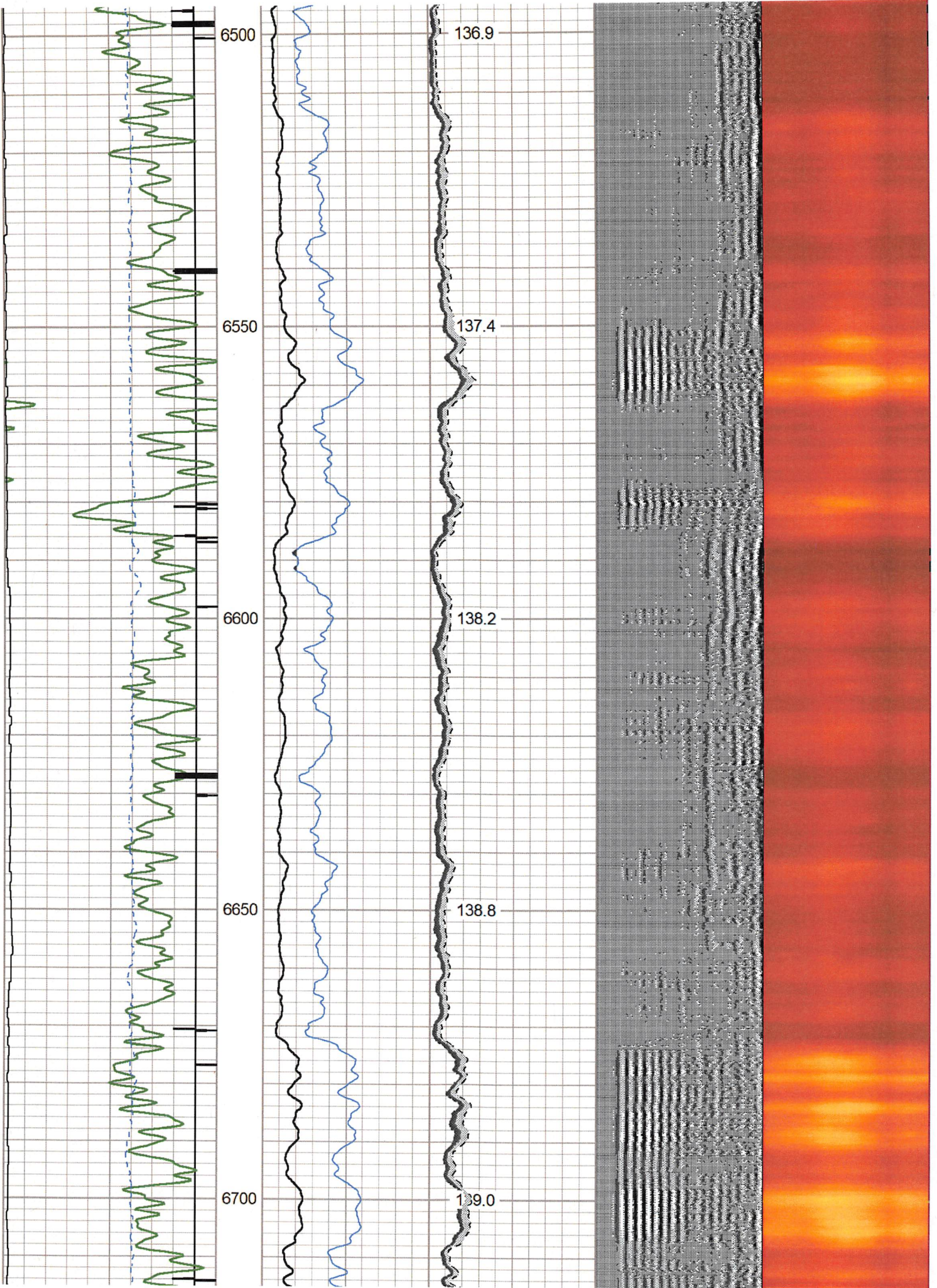


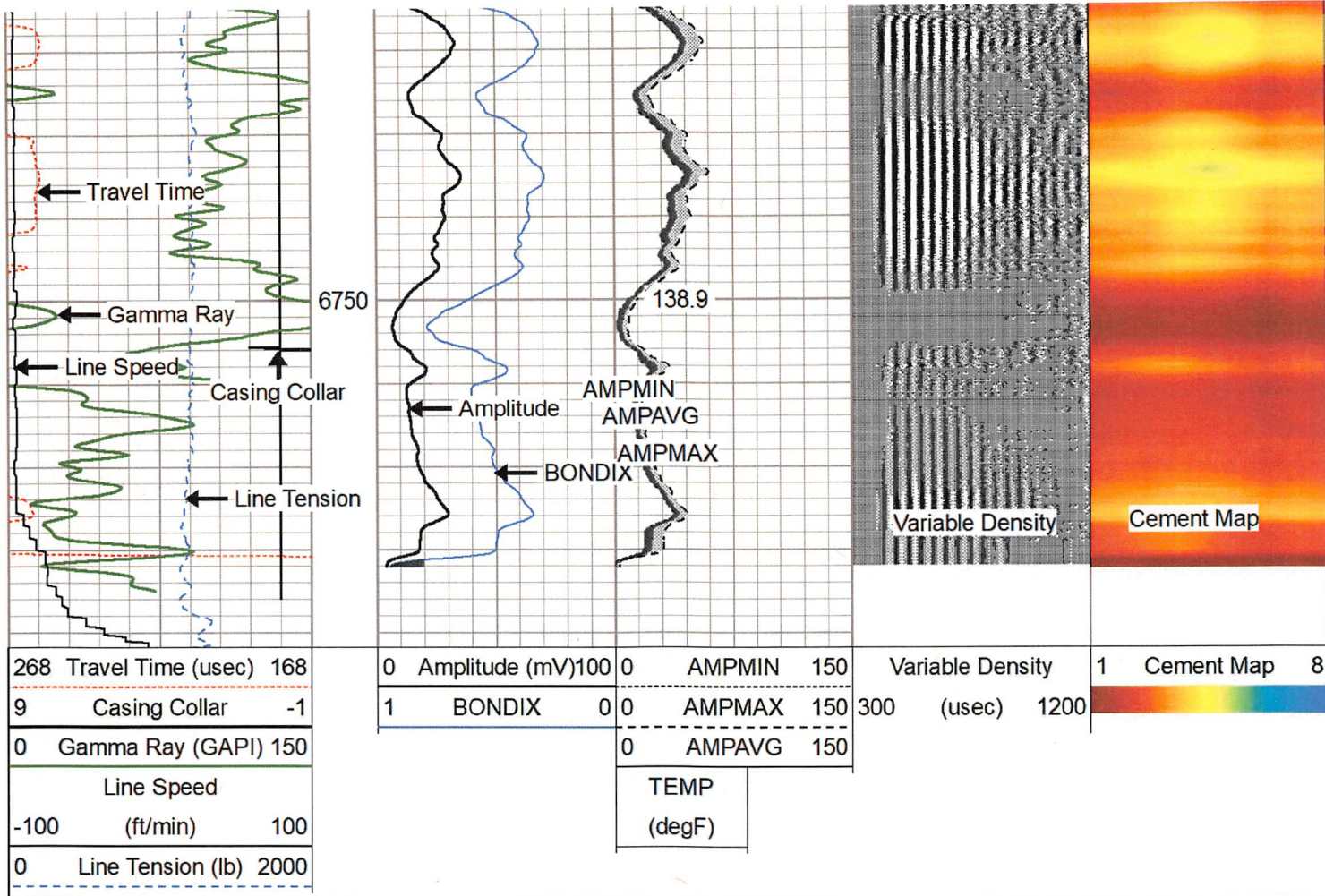






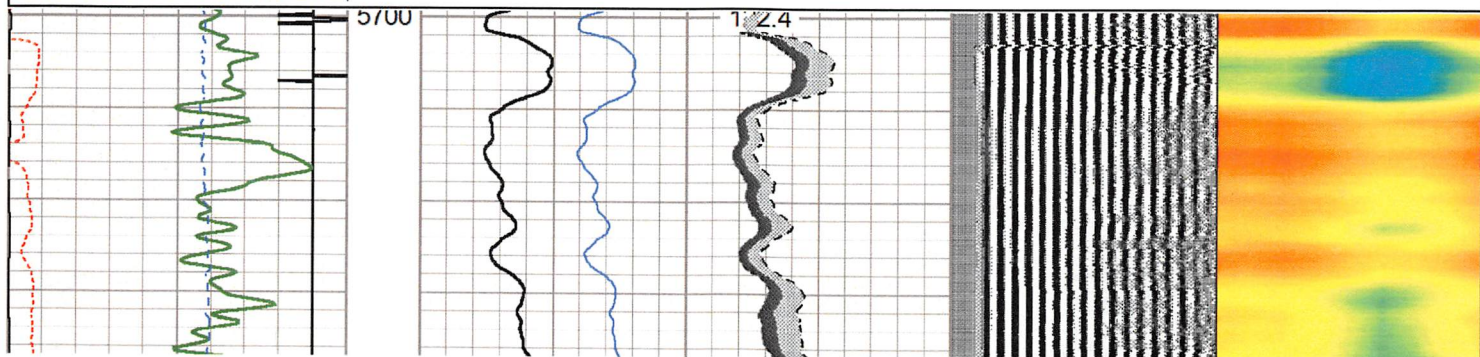
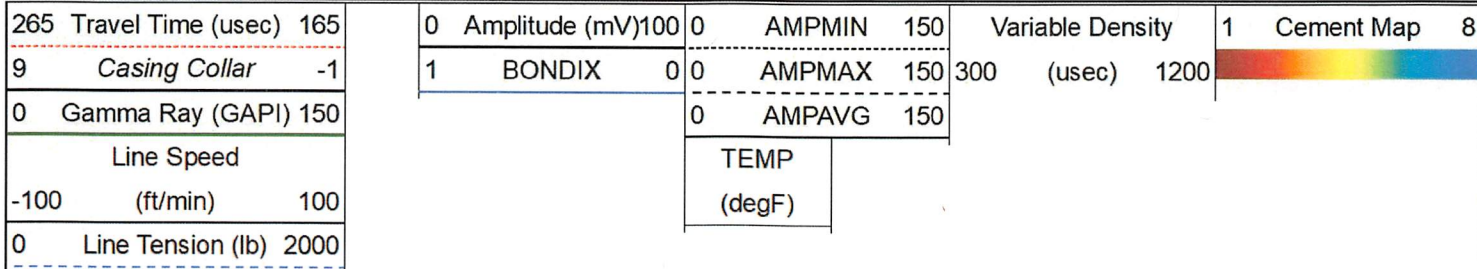


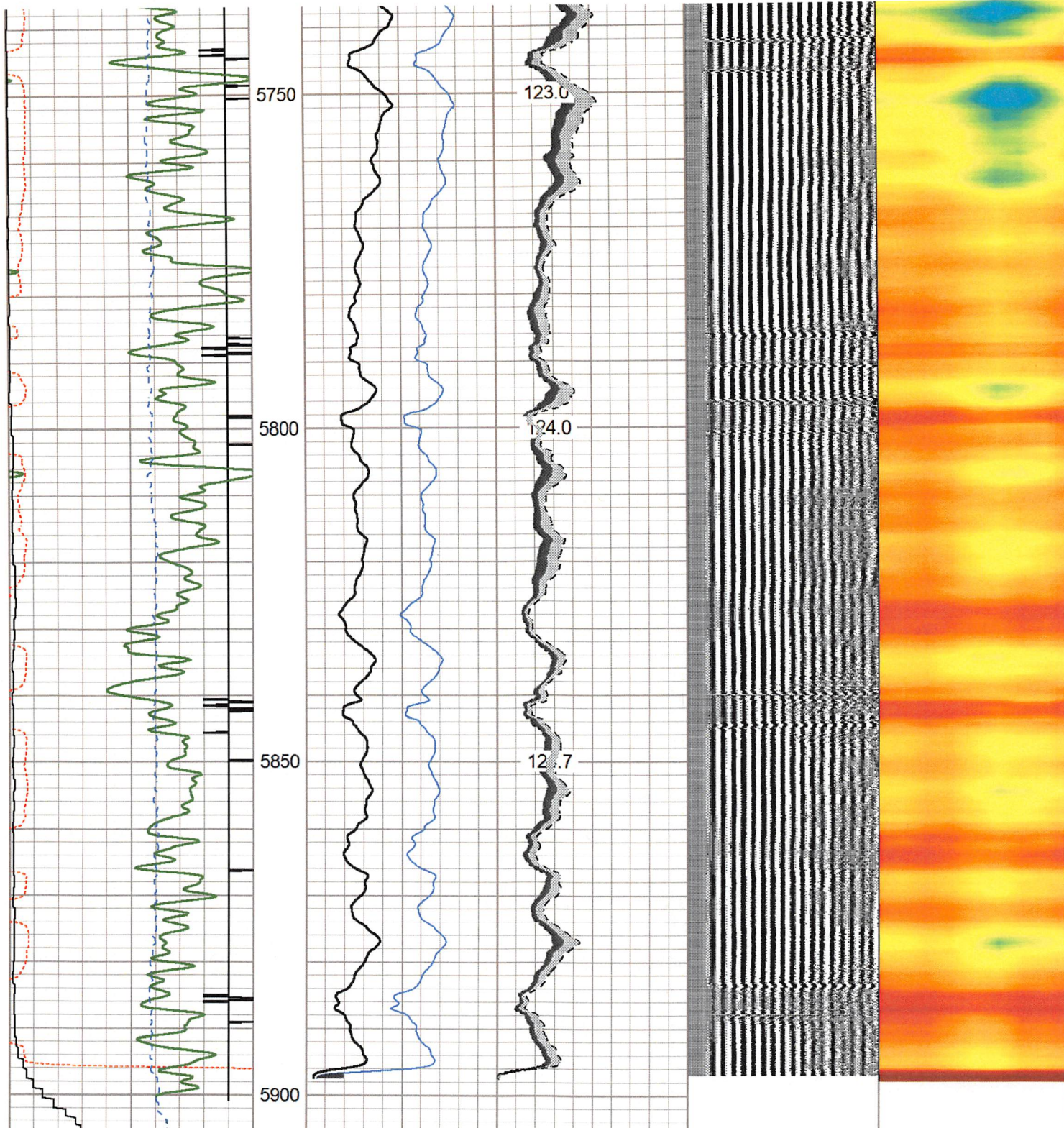




Repeat Pass 0 PSI

Database File antero_little_2h_rcbl_02_april_2023.db
 Dataset Pathname pass9
 Presentation Format rcbl-bond index for antero 1020
 Dataset Creation Sun Apr 02 09:15:59 2023
 Charted by Depth in Feet scaled 1:240





265	Travel Time (uSec)	165
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
Line Speed		
-100	(ft/min)	100
0	Line Tension (lb)	2000

0	Amplitude (mV)	100	0	AMPMIN	150
1	BONDIX	0	0	AMPMAX	150
			0	AMPAVG	150
TEMP					
(degF)					

Variable Density	1	Cement Map	8
300 (uSec)	1200		

Log Variables

DatabaseC:\ProgramData\Warrior\Data\antero_little_2h_rcbl_02_april_2023.db
 Dataset field/well/run1/pass11/_vars_

Top - Bottom

BHTEMP_Src TEMP	BOREID in 7.875	BOTTEMP degF 139	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 23	MAXAMPL mV 71.9	MINAMPL mV 3.4
MINATTN db/ft 0.8	PERFS No	PPT usec 260	SRFTEMP degF 41	TDEPTH ft 6792			

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 antero_little_2h_rcbl_02_april_2023.db
 Dataset Pathname pass11
 Dataset Creation Sun Apr 02 09:37:24 2023

Gamma Ray Calibration Report

Serial Number: FW1211-86
 Tool Model: Probe
 Performed: Sat Apr 1 08:08:22 2023

 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: 403.558 ft

Master Calibration, performed Sun Apr 2 08:35:53 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.004	0.441	3.400	71.921	153.787	4.065
CAL	0.663	0.706				
5'	-0.006	0.457	3.400	71.921	148.212	4.258
SUM						
S1	0.003	0.406	0.000	100.000	247.964	-0.763
S2	-0.010	0.411	0.000	100.000	237.718	2.385
S3	-0.006	0.436	0.000	100.000	226.049	1.449
S4	-0.006	0.465	0.000	100.000	212.437	1.302
S5	-0.005	0.471	0.000	100.000	209.809	1.142
S6	-0.009	0.465	0.000	100.000	211.254	1.813
S7	-0.001	0.441	0.000	100.000	226.398	0.171
S8	-0.012	0.424	0.000	100.000	229.635	2.722

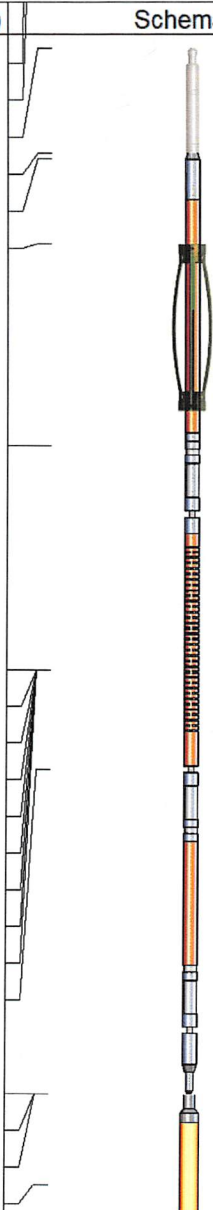
Internal Reference Calibration performed (Not Performed):

internal Reference Calibration, performed (NOT Performed).

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.663	0.706	1.000	0.000

Air Zero Calibration, performed Sun Apr 2 07:49:54 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)
Centralizer	32.54		CABLE_HEADS-TITAN_1_7/16	1.04	1.44	4.00
Centralizer	21.47					
CABLE_HEADS	18.07					
RBT	17.03		Centralizer-2.75_Overbody	1.67	3.12	5.00
HeadVolt	16.97					
Centralizer	16.13					
Temp	14.12		RBT-Probe275T (FW1312-32) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00
WVFS8	11.89					
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		HEADVOLT	7.64	7.64	6.73
WVFCAL	7.64					
HEADVOLT	7.64					
CCL	6.73					

Centralizer	5.86					
GR	5.40		GR-Probe (FW1211-86) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
			Centralizer-2.75_Overbody	1.67	3.12	5.00
Centralizer	2.86		Centralizer-Titan_2.75 Bowspring Centralizer	2.86	2.75	35.00

Dataset: antero_little_2h_rcbl_02_april_2023.db: field/well/run1/pass11
 Total length: 18.07 ft
 Total weight: 206.00 lb
 O.D.: 3.12 in

	Company	Antero Resources	
	Well	Little 2H	
	Field	Marcellus	
	County	Tyler	
	State	WV	Country