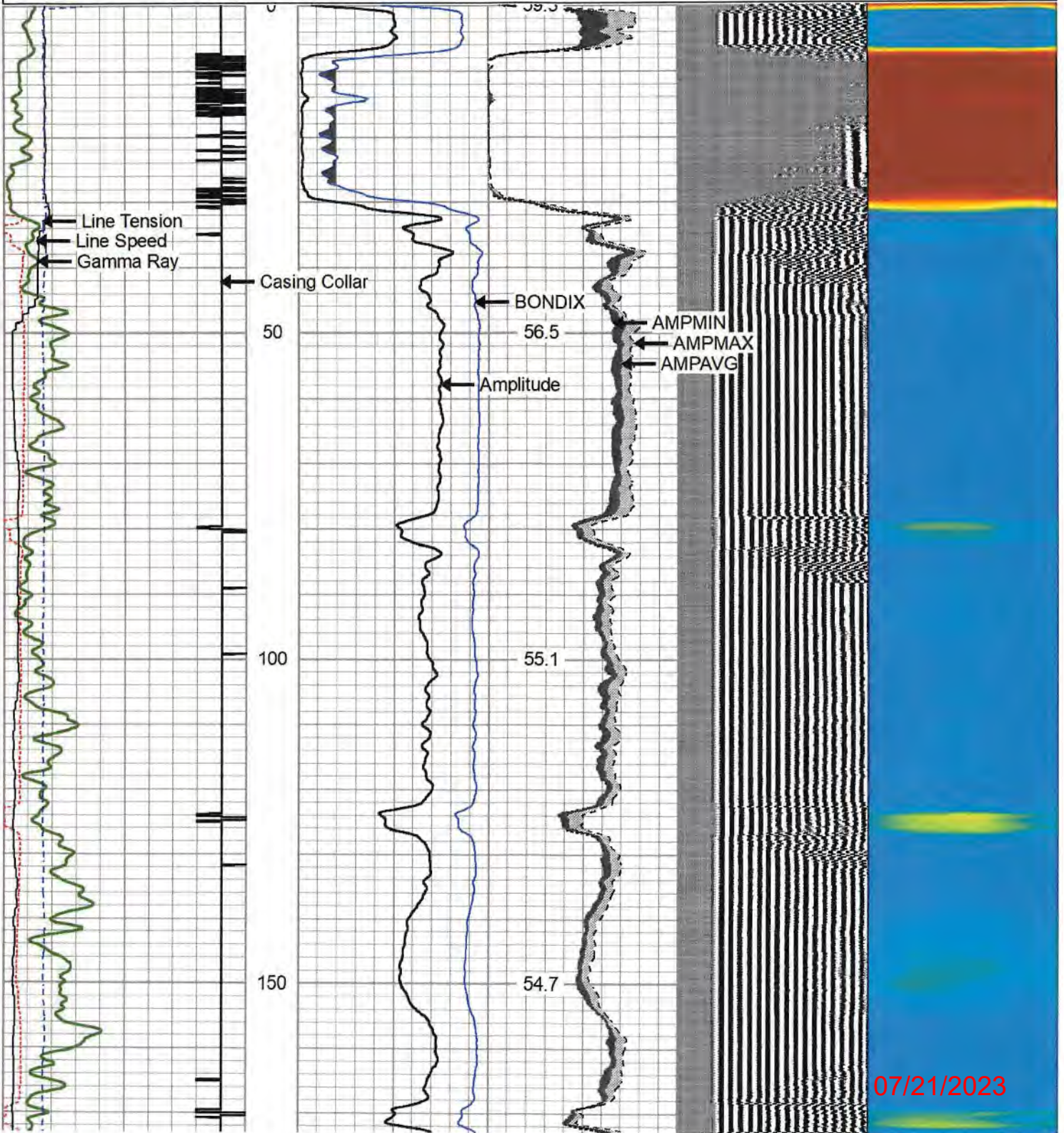
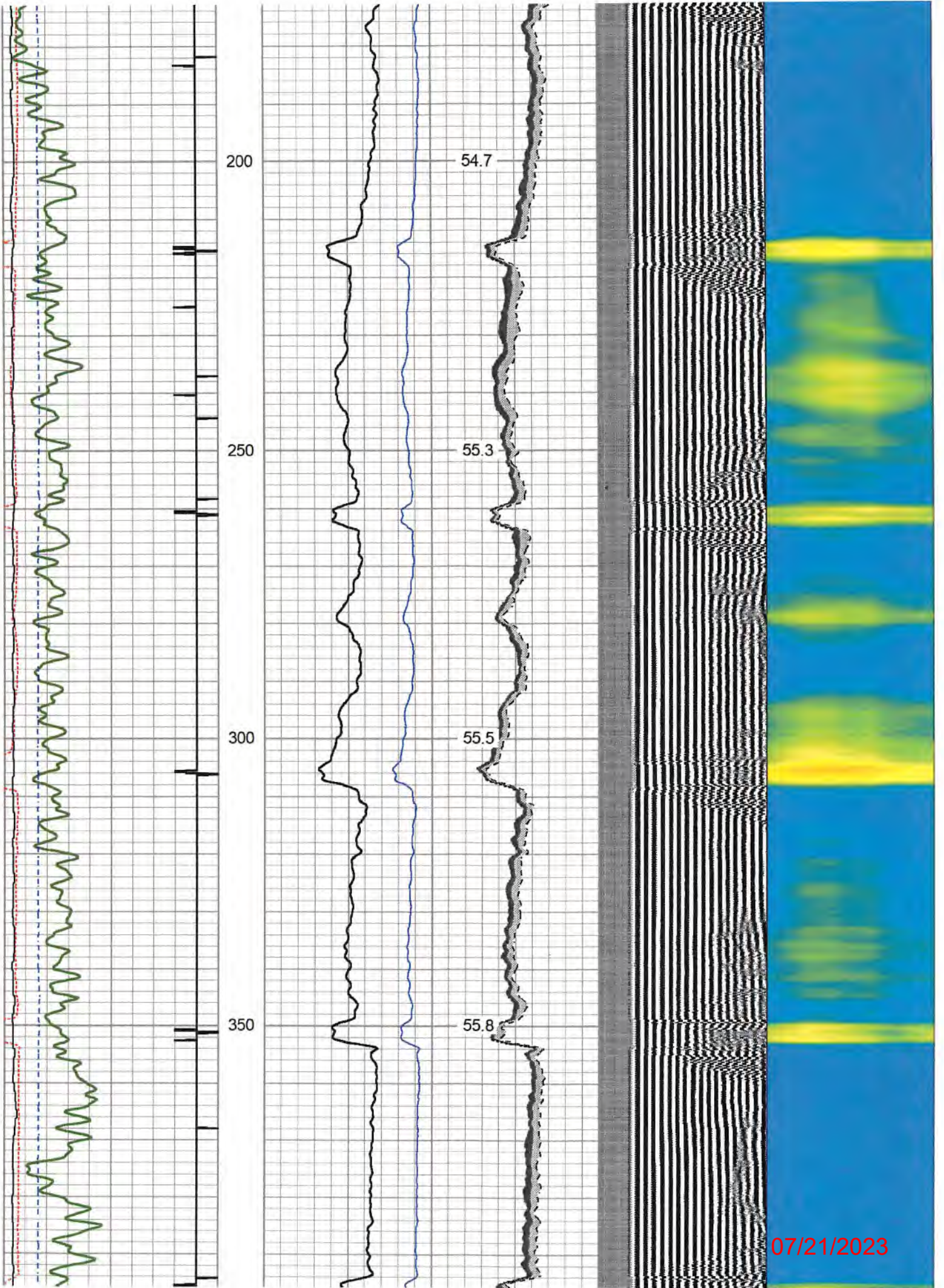


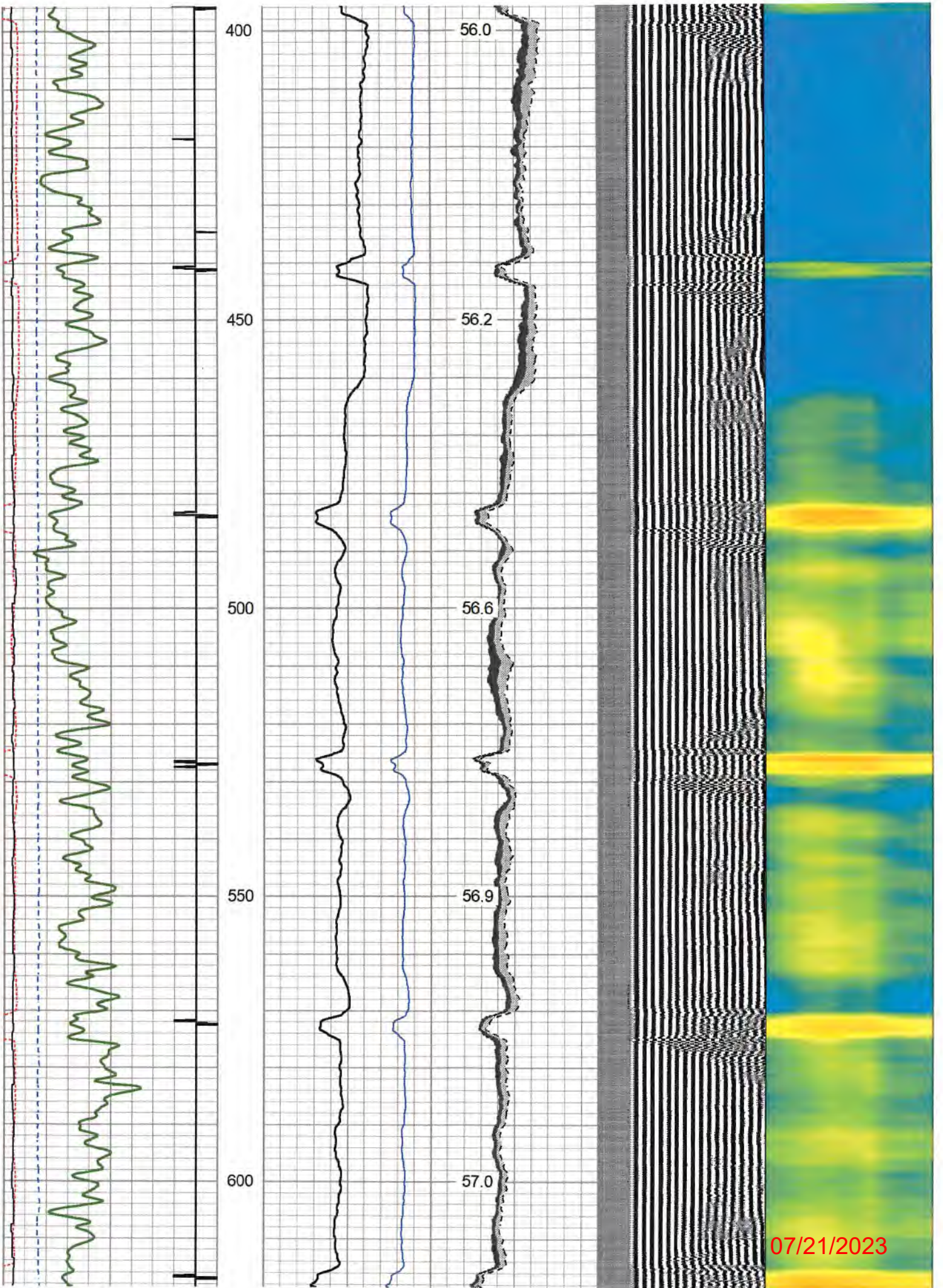
Database File antero_grand_pad_toroweap3h_rcbl_23_may_2022.db
 Dataset Pathname pass6
 Presentation Format rcbl-bond index for antero 1020
 Dataset Creation Mon May 23 20:08:38 2022
 Charted by Depth in Feet scaled 1:240

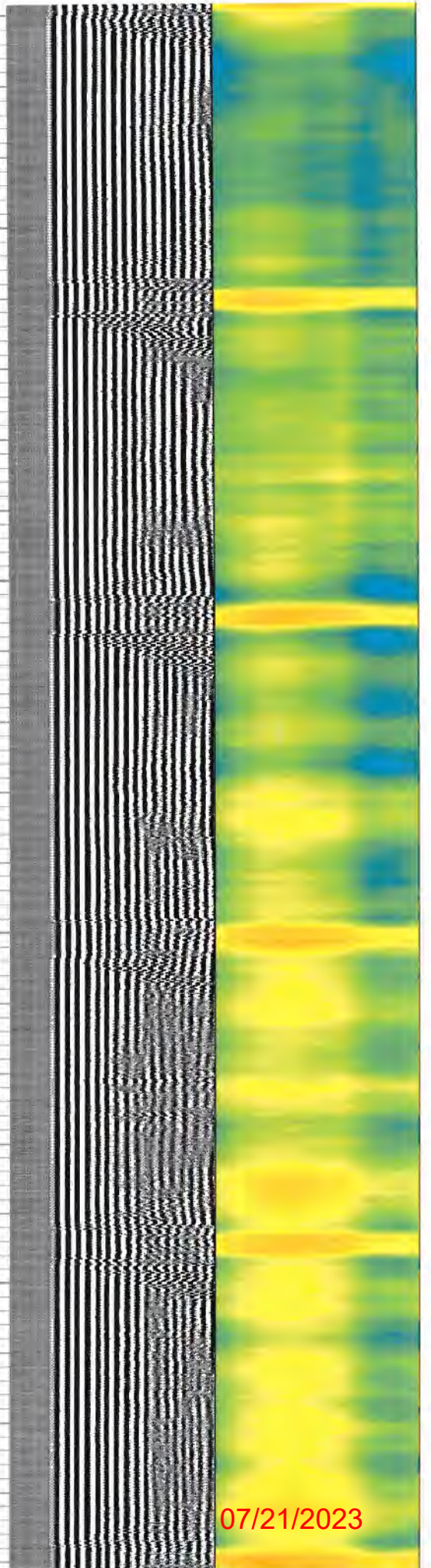
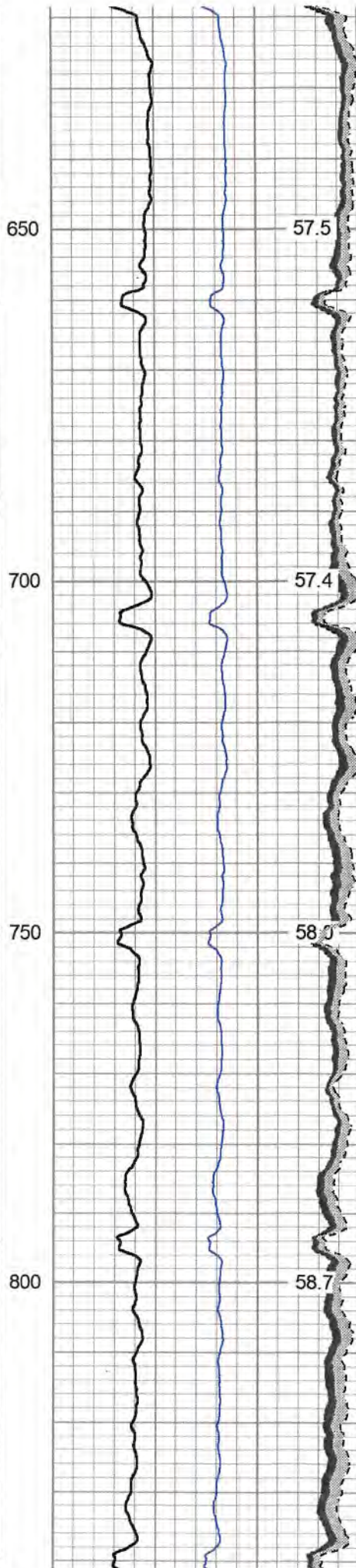
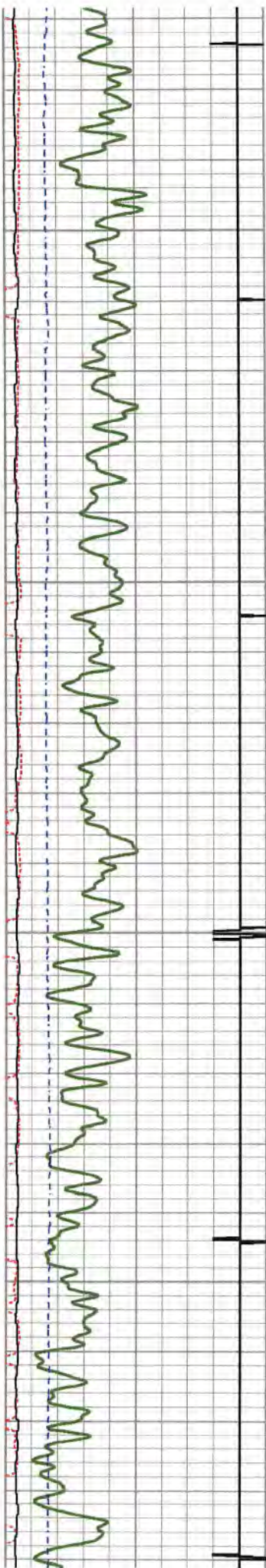
270	Travel Time (usec)	160	0	Amplitude (mV)	100	0	AMPMIN	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1	1	BONDIX	0	0	AMPMAX	150	200	(usec)	1200	
0	Gamma Ray (GAPI)	150				0	AMPAVG	150				
	Line Speed						TEMP					
-100	(ft/min)	100					(degF)					
0	Line Tension (lb)	2000										



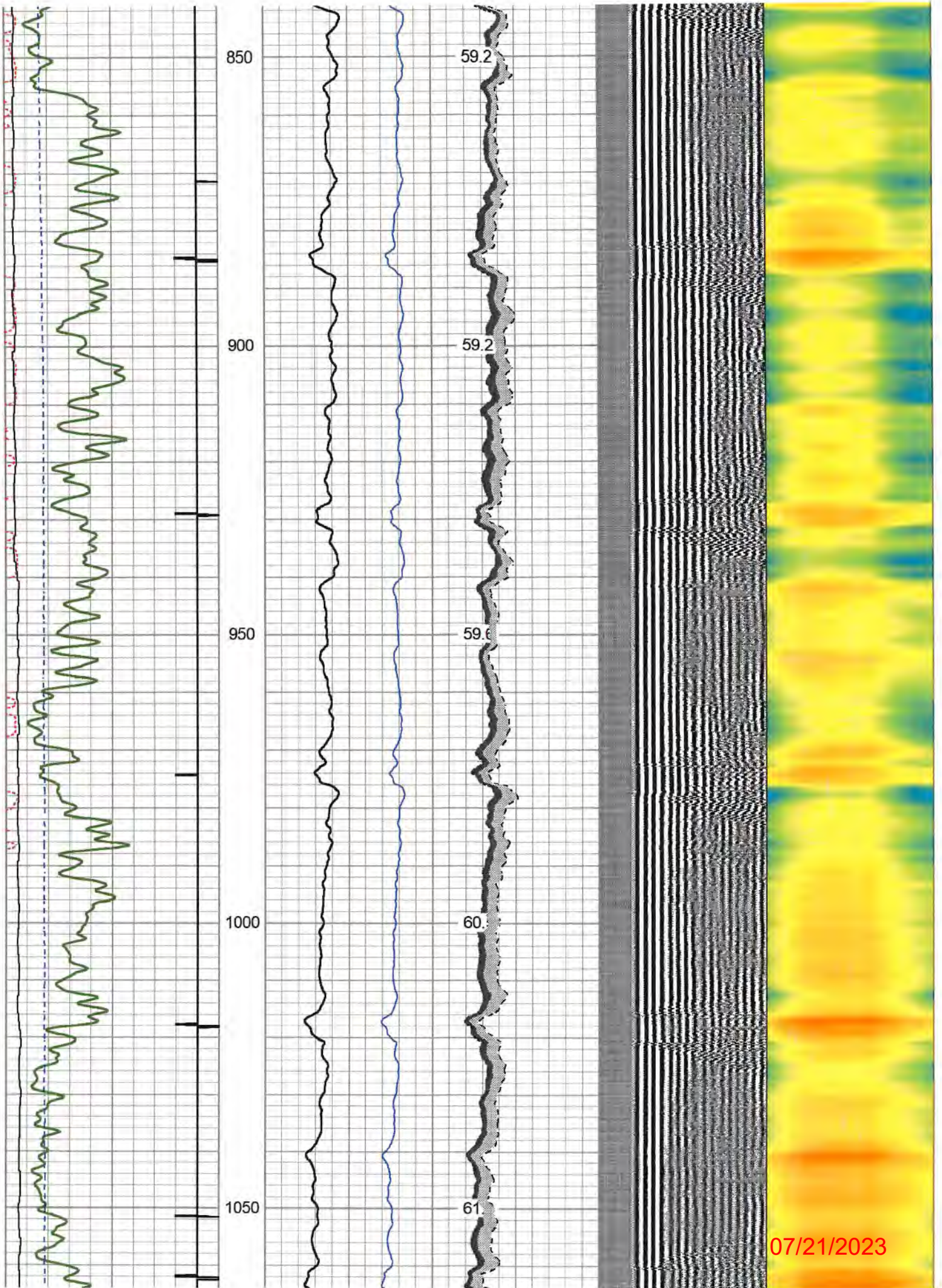


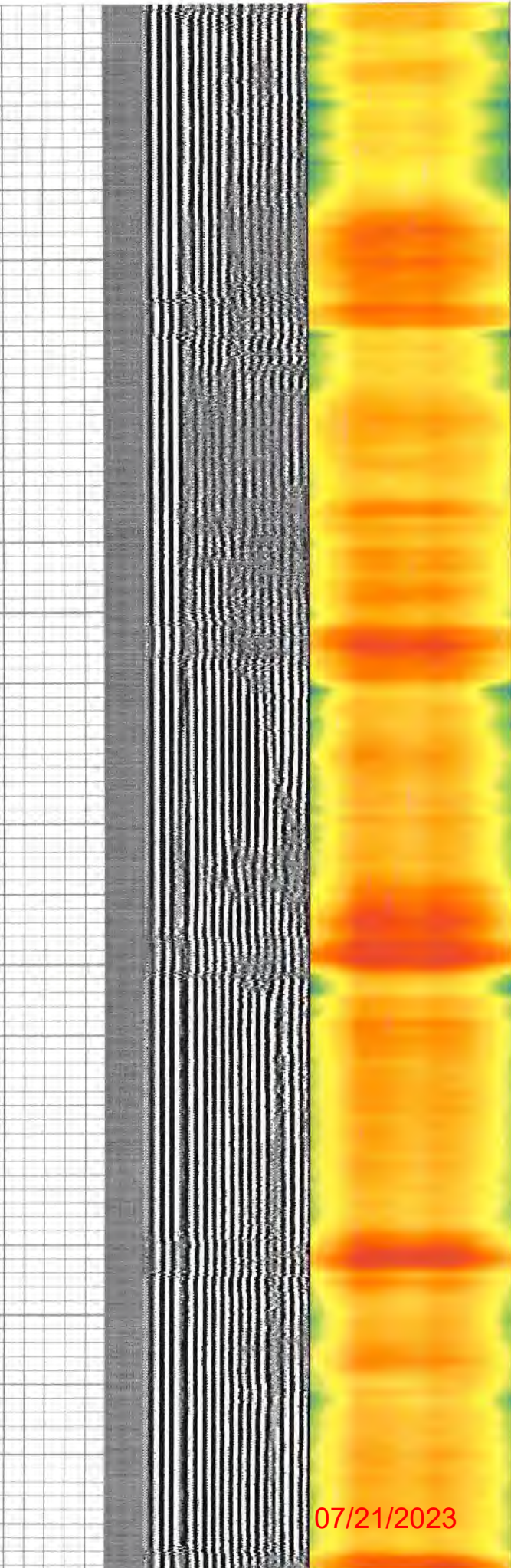
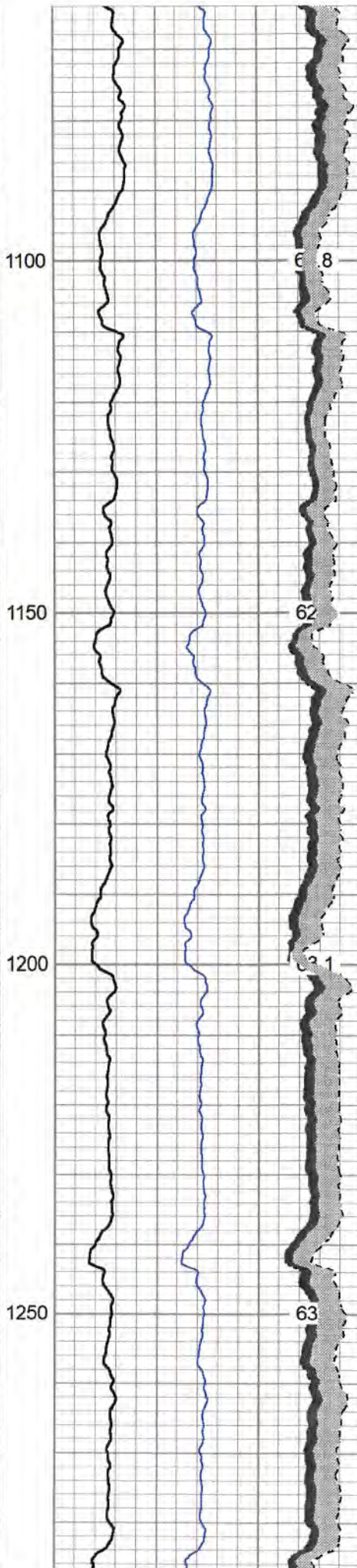
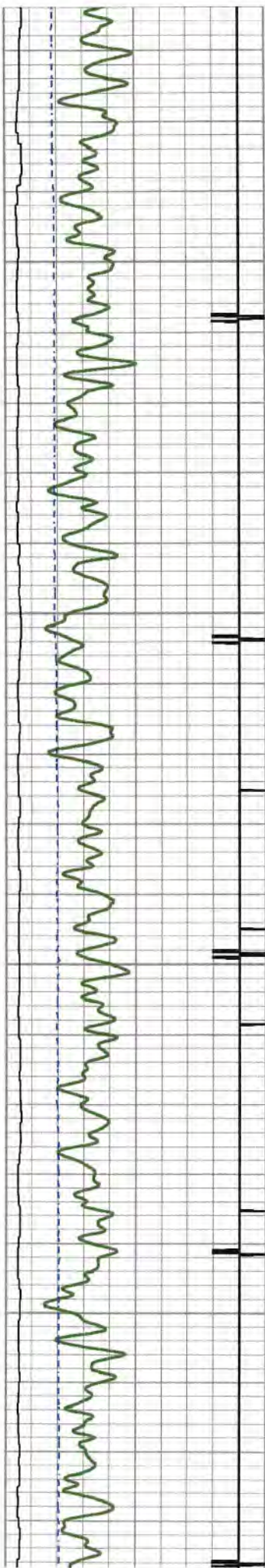
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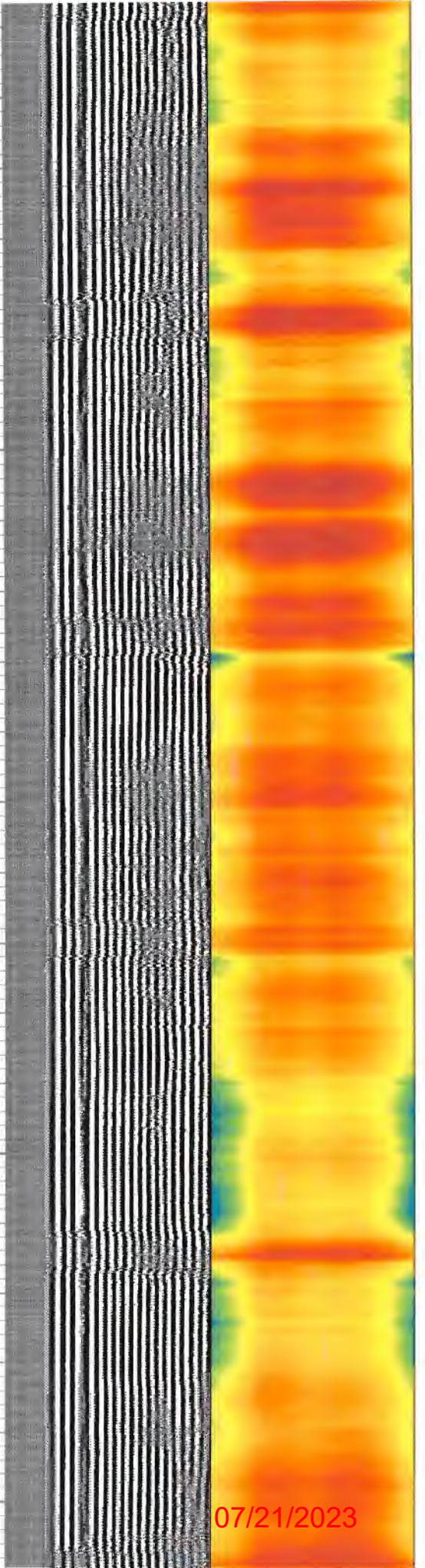
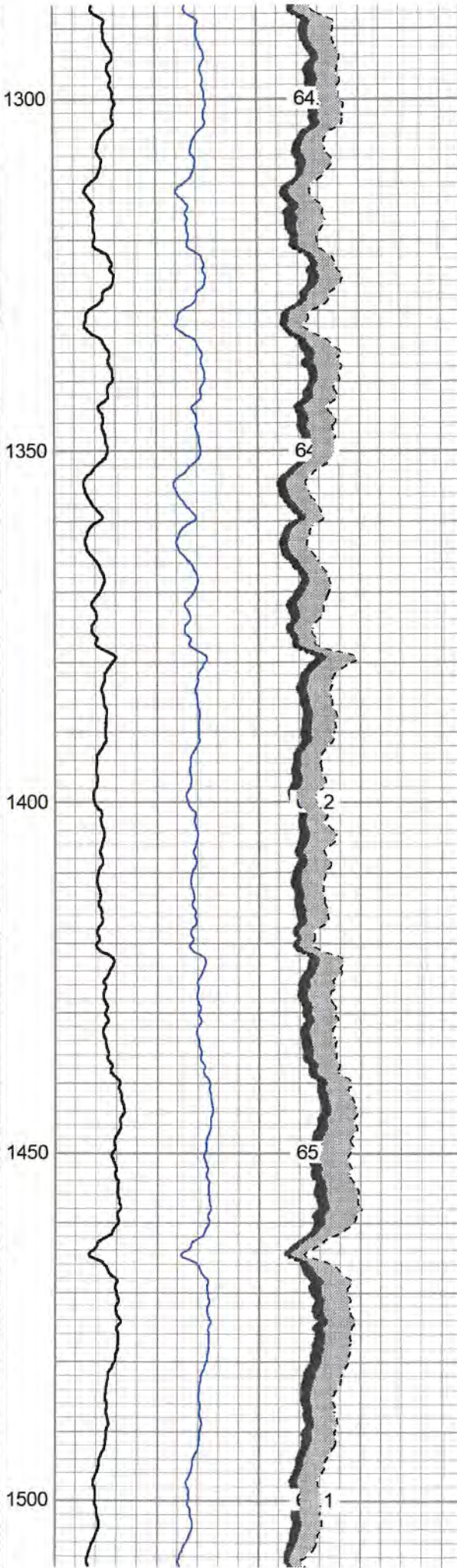
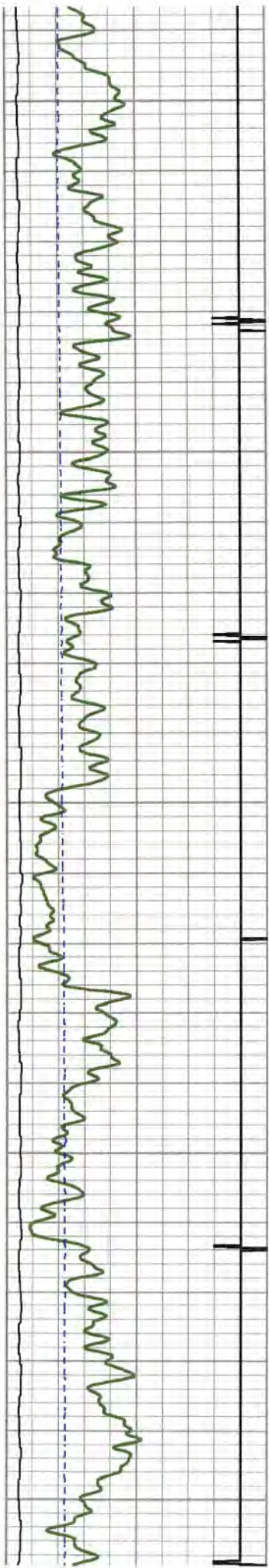


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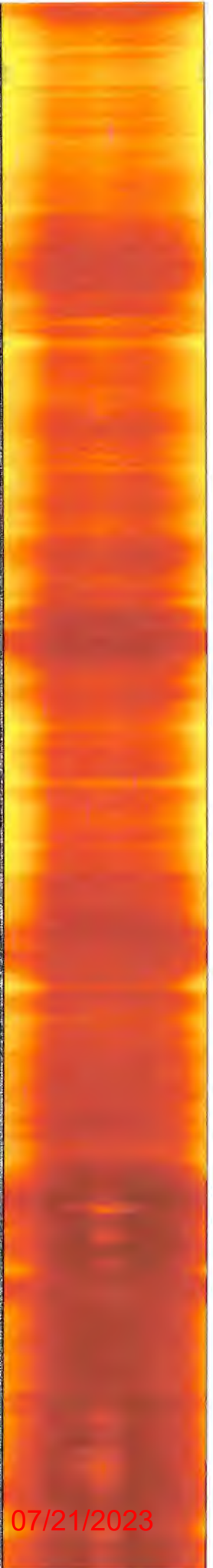
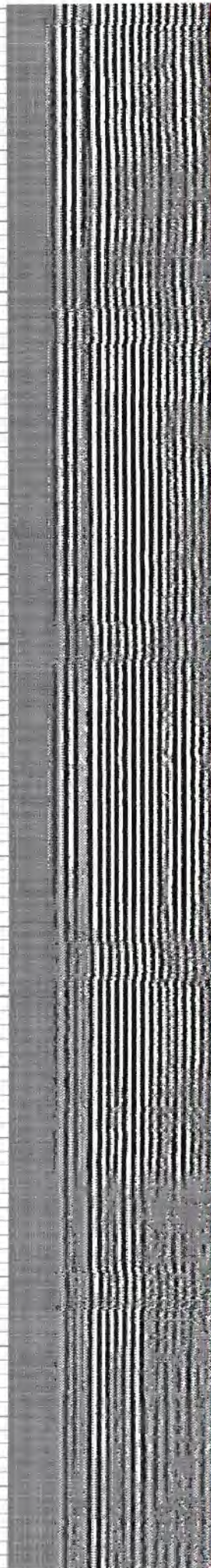
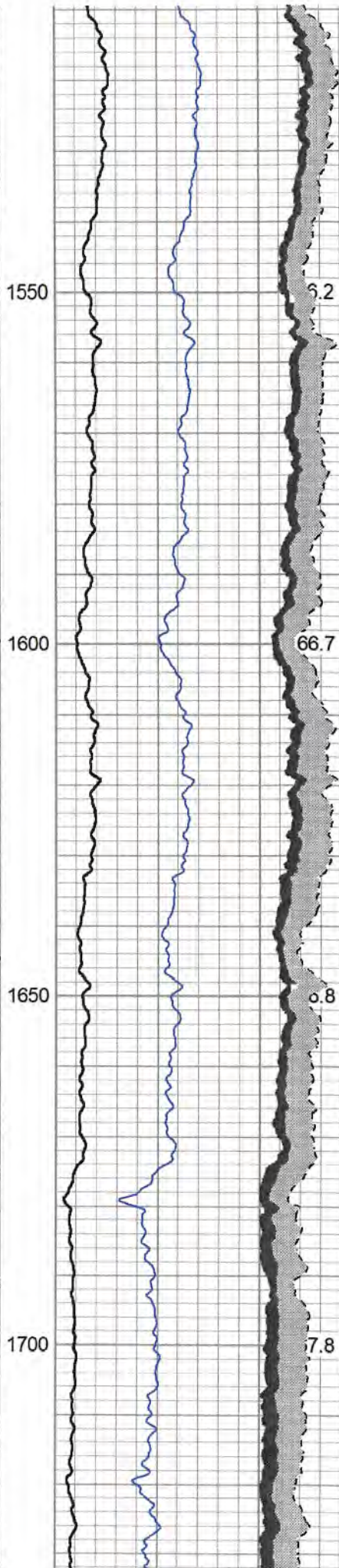
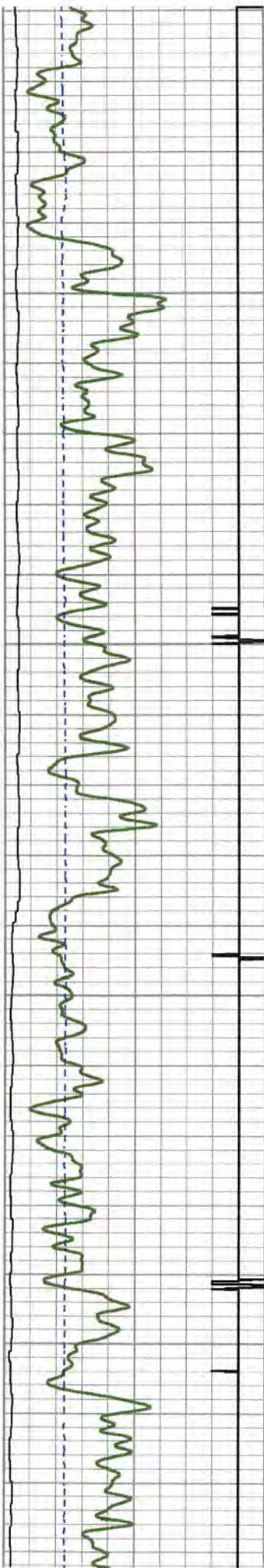




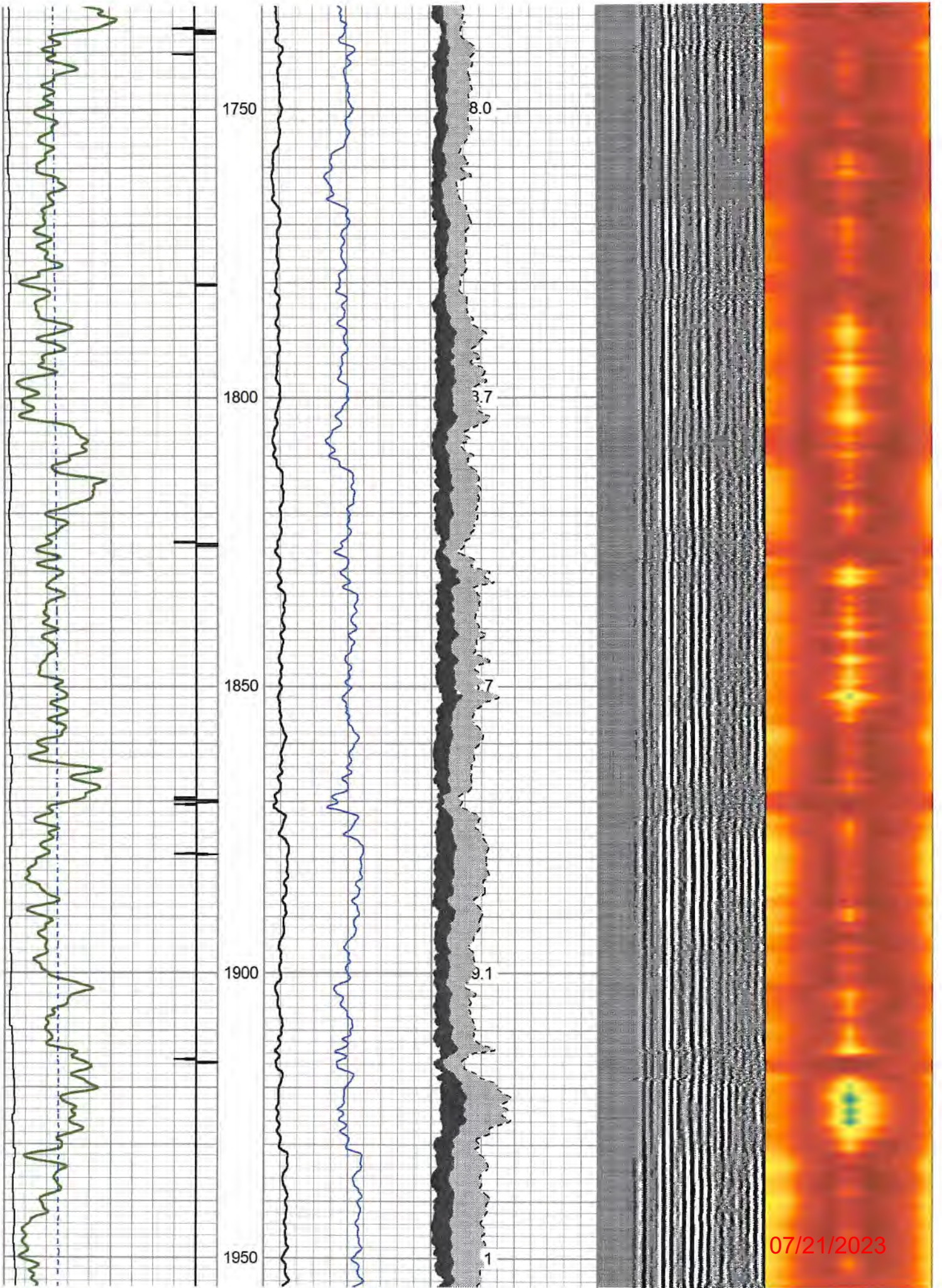
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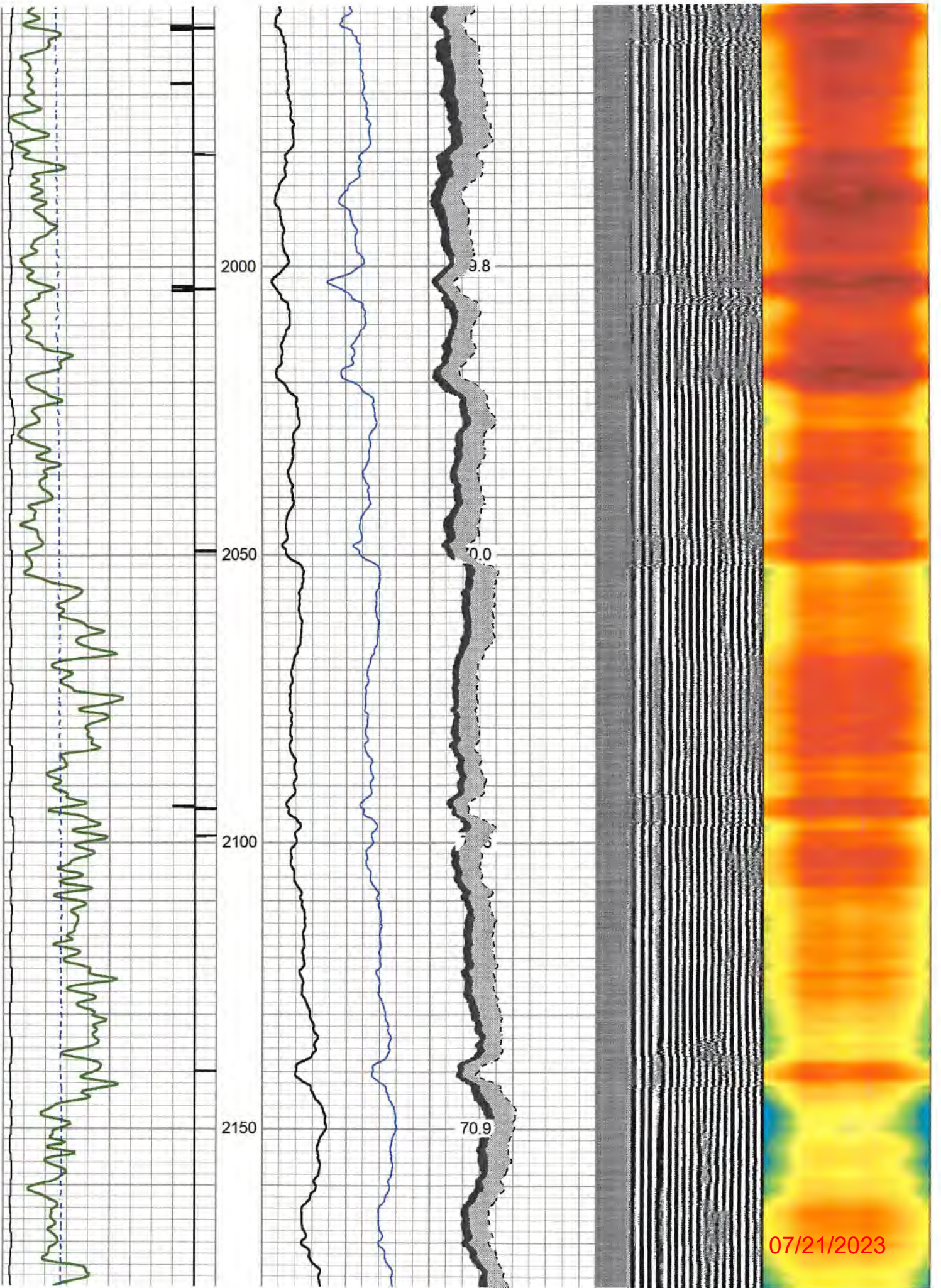


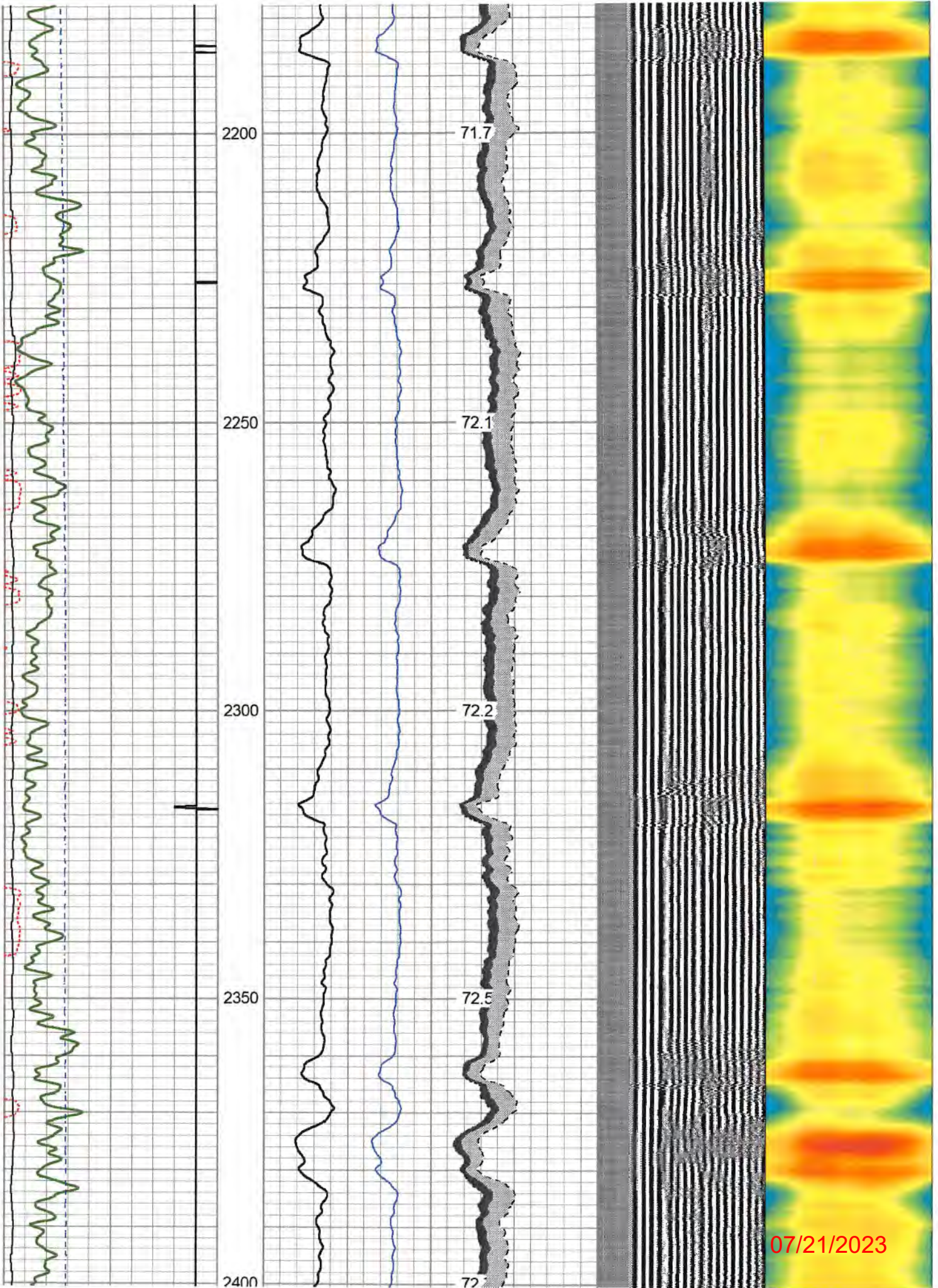
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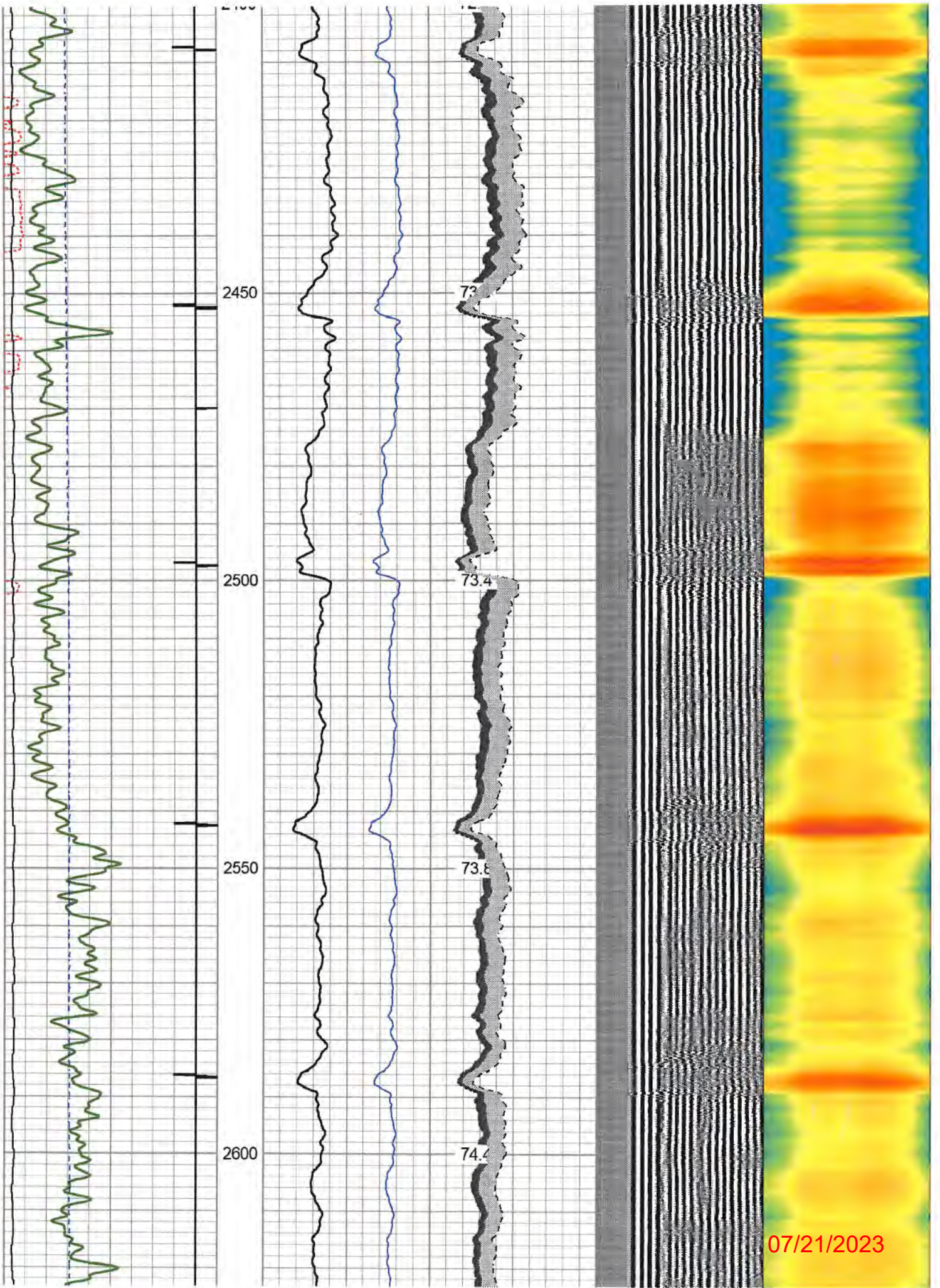
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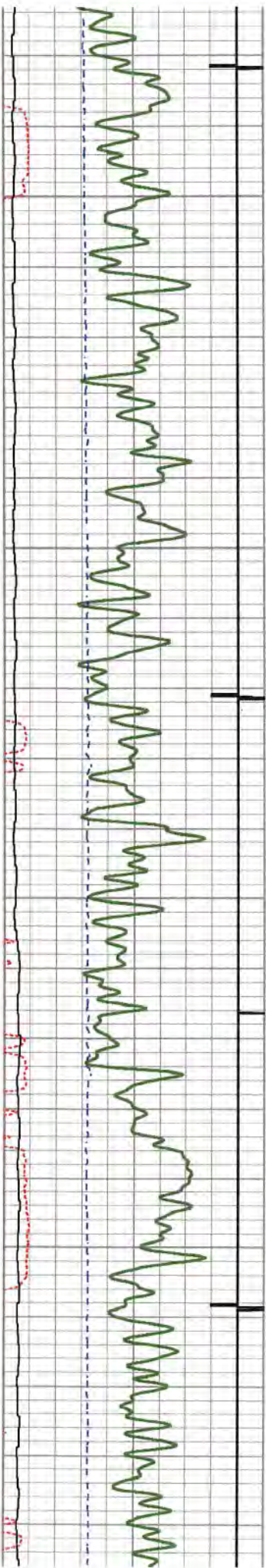




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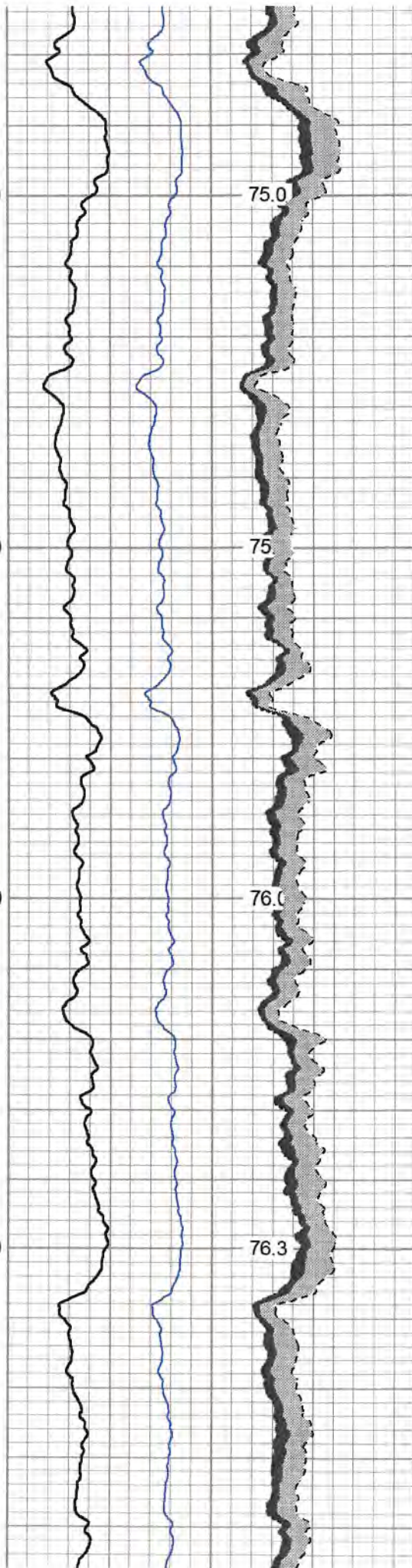


2650

2700

2750

2800

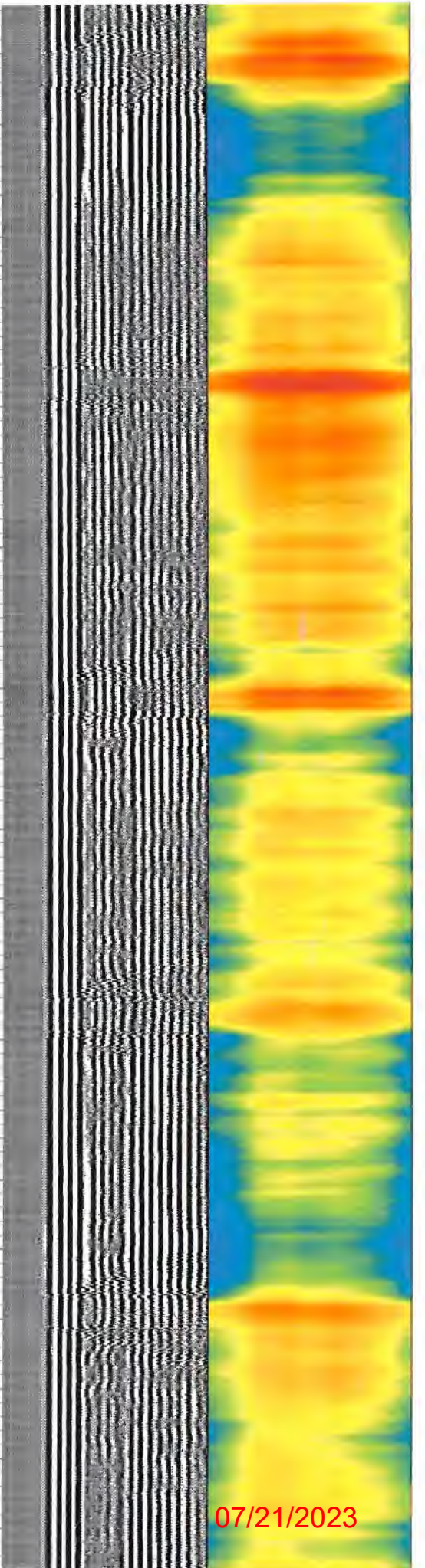


75.0

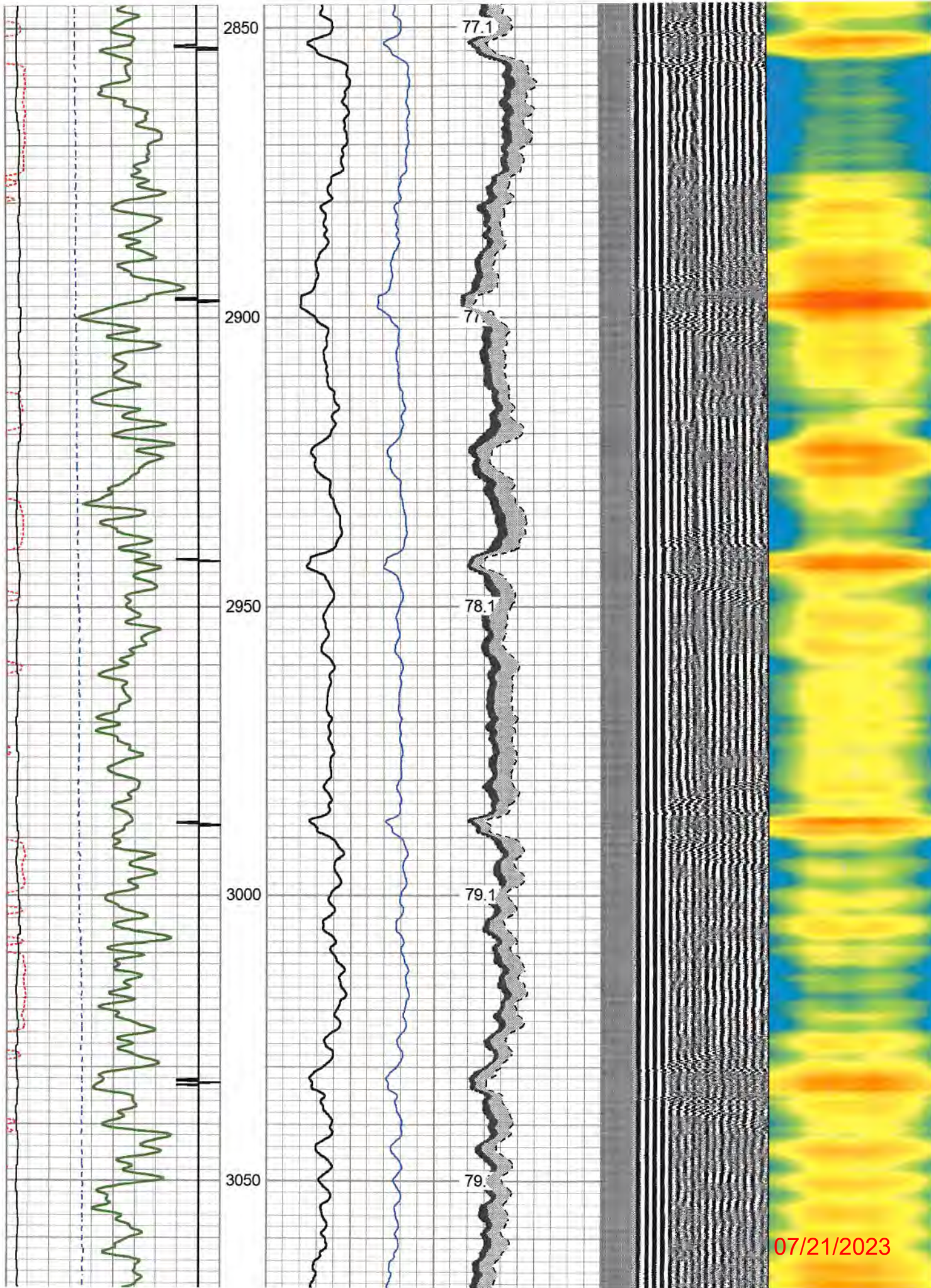
75

76.0

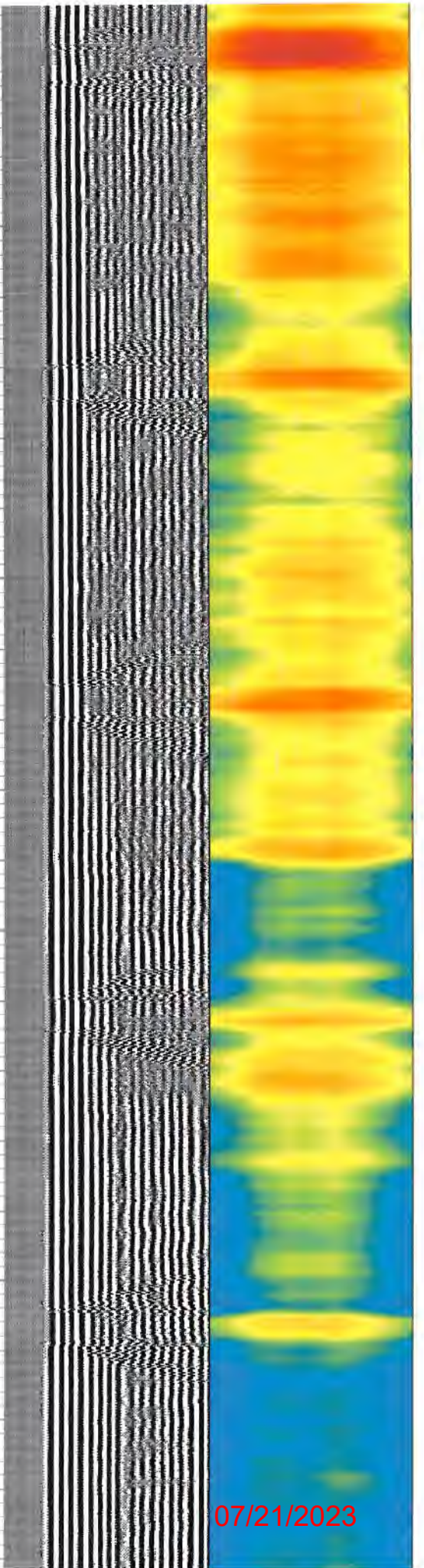
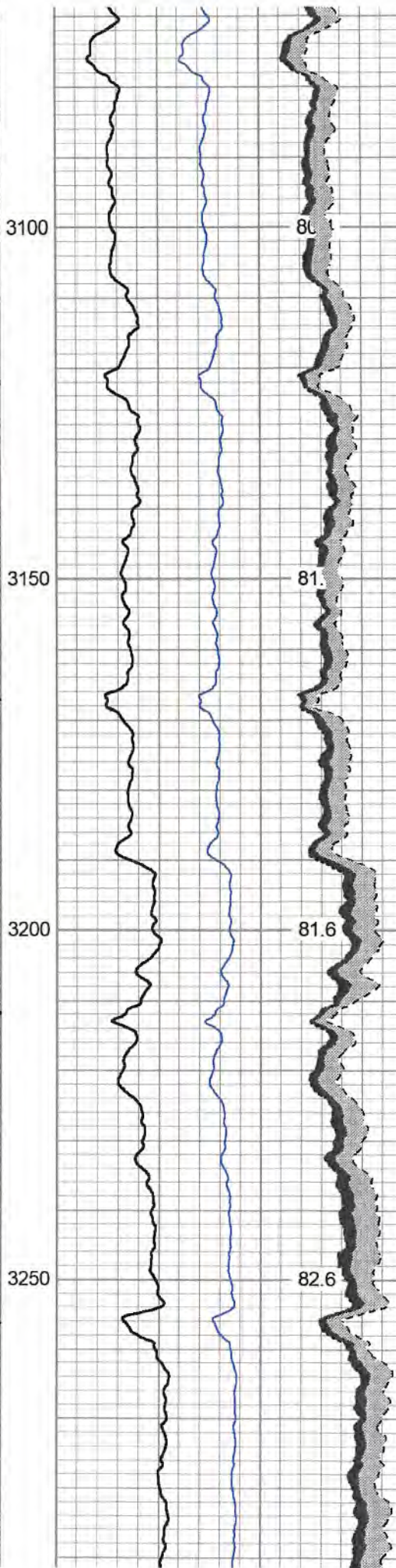
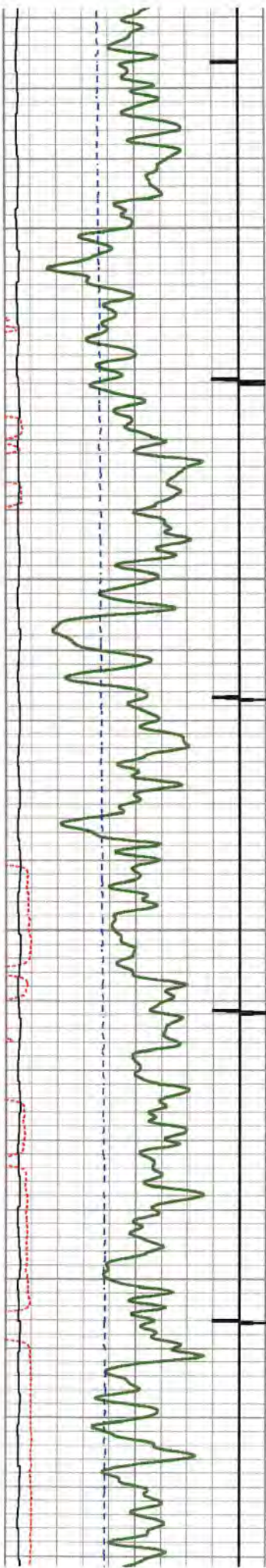
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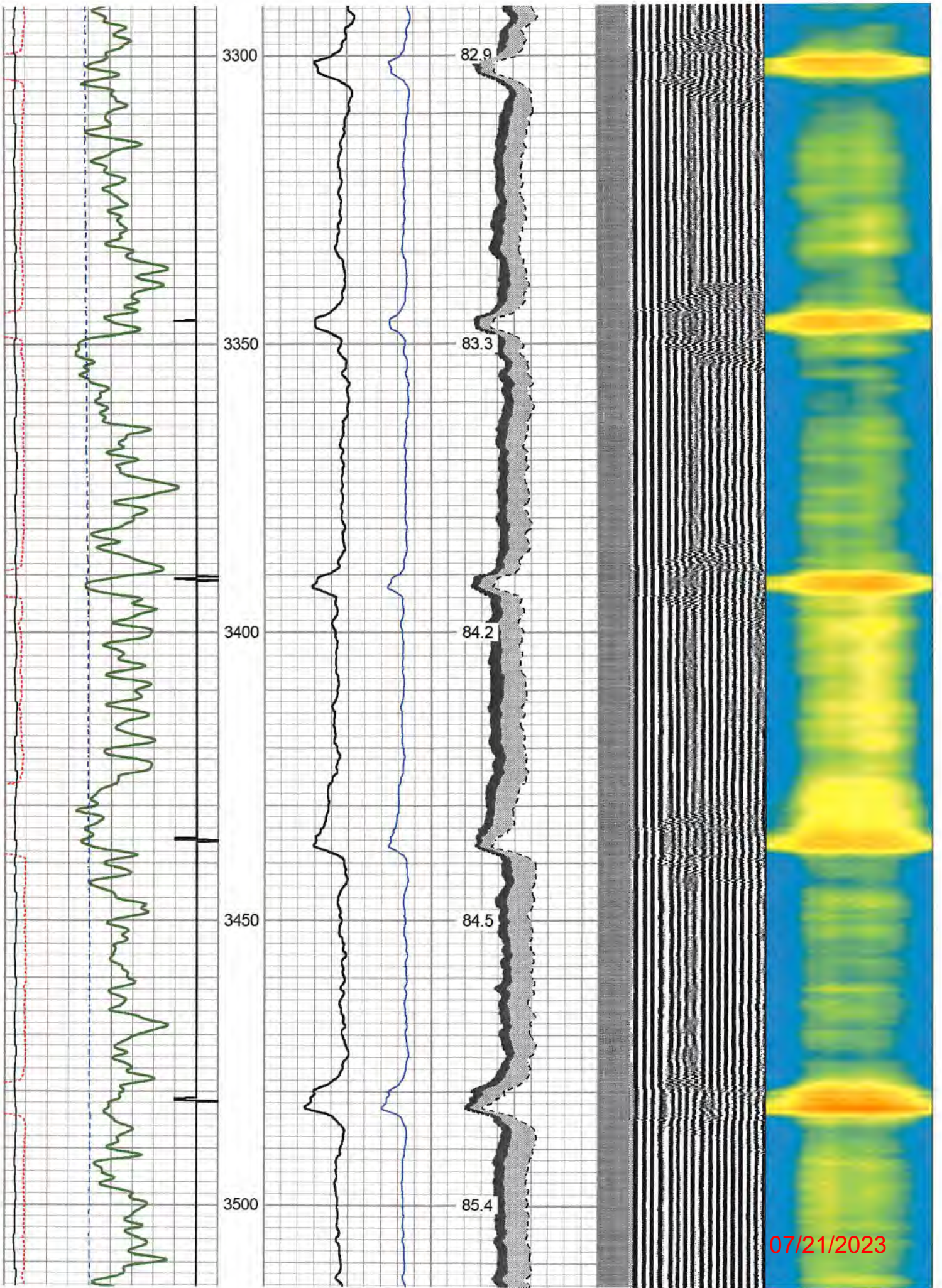
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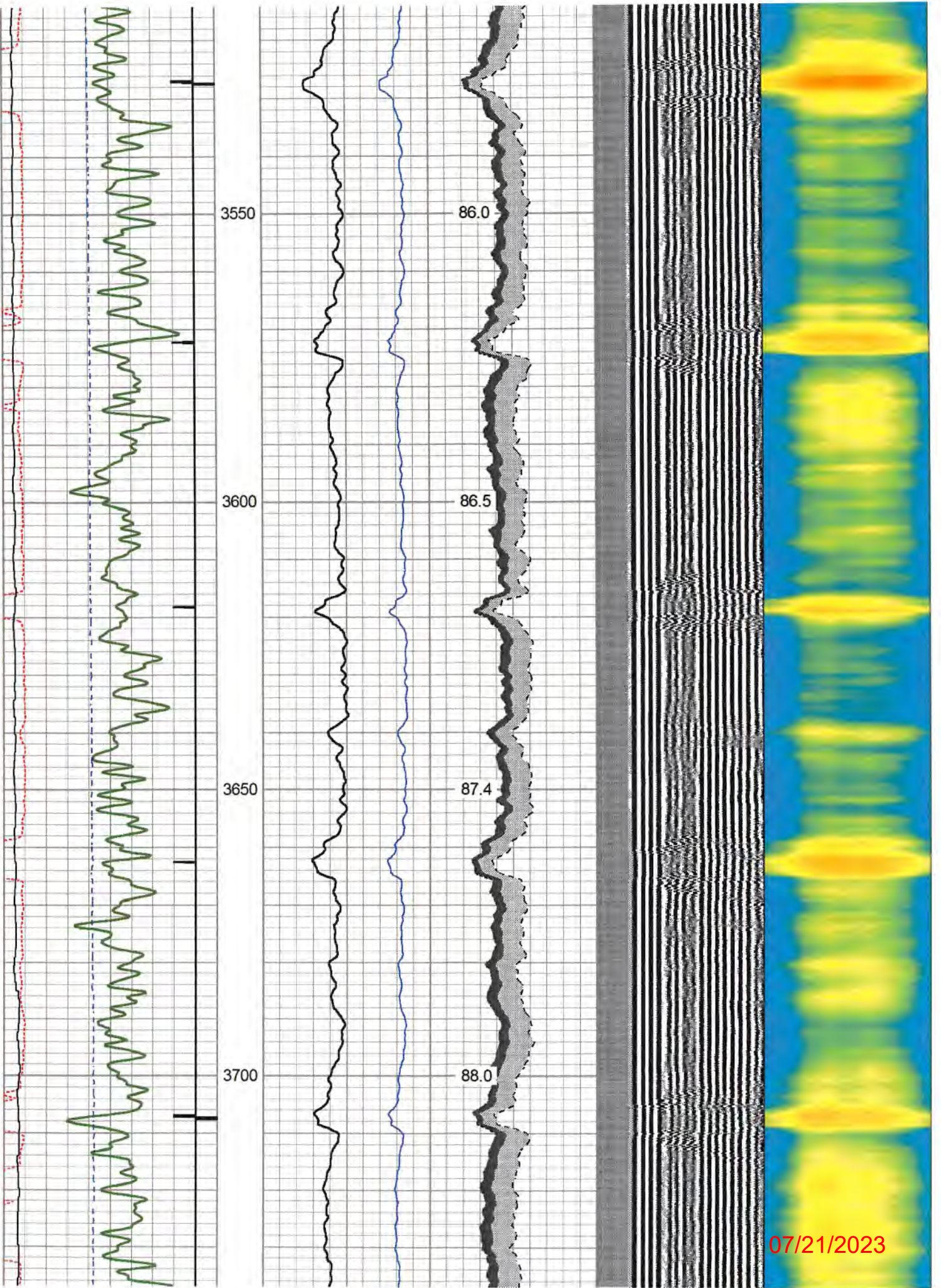


07/21/2023

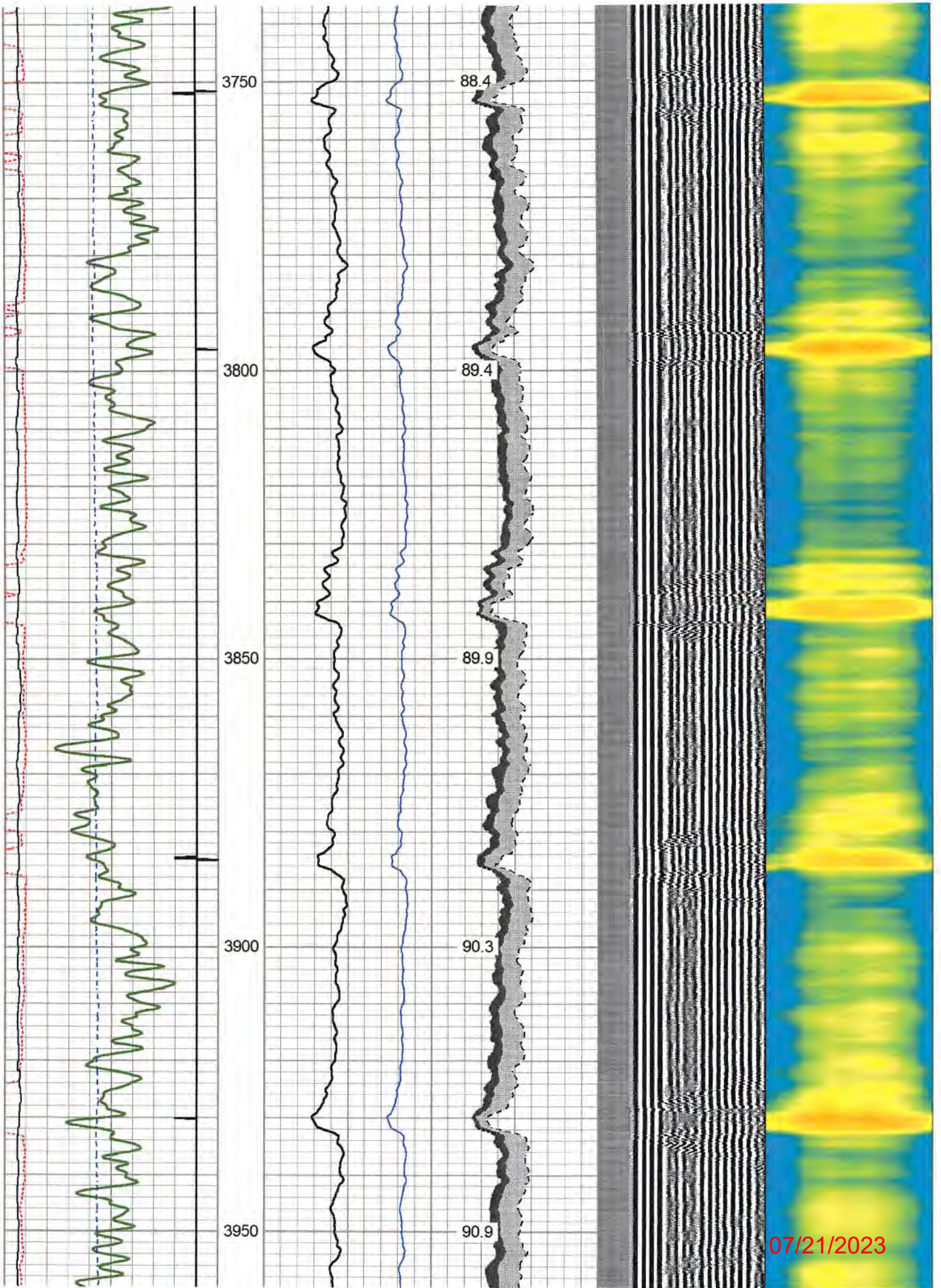


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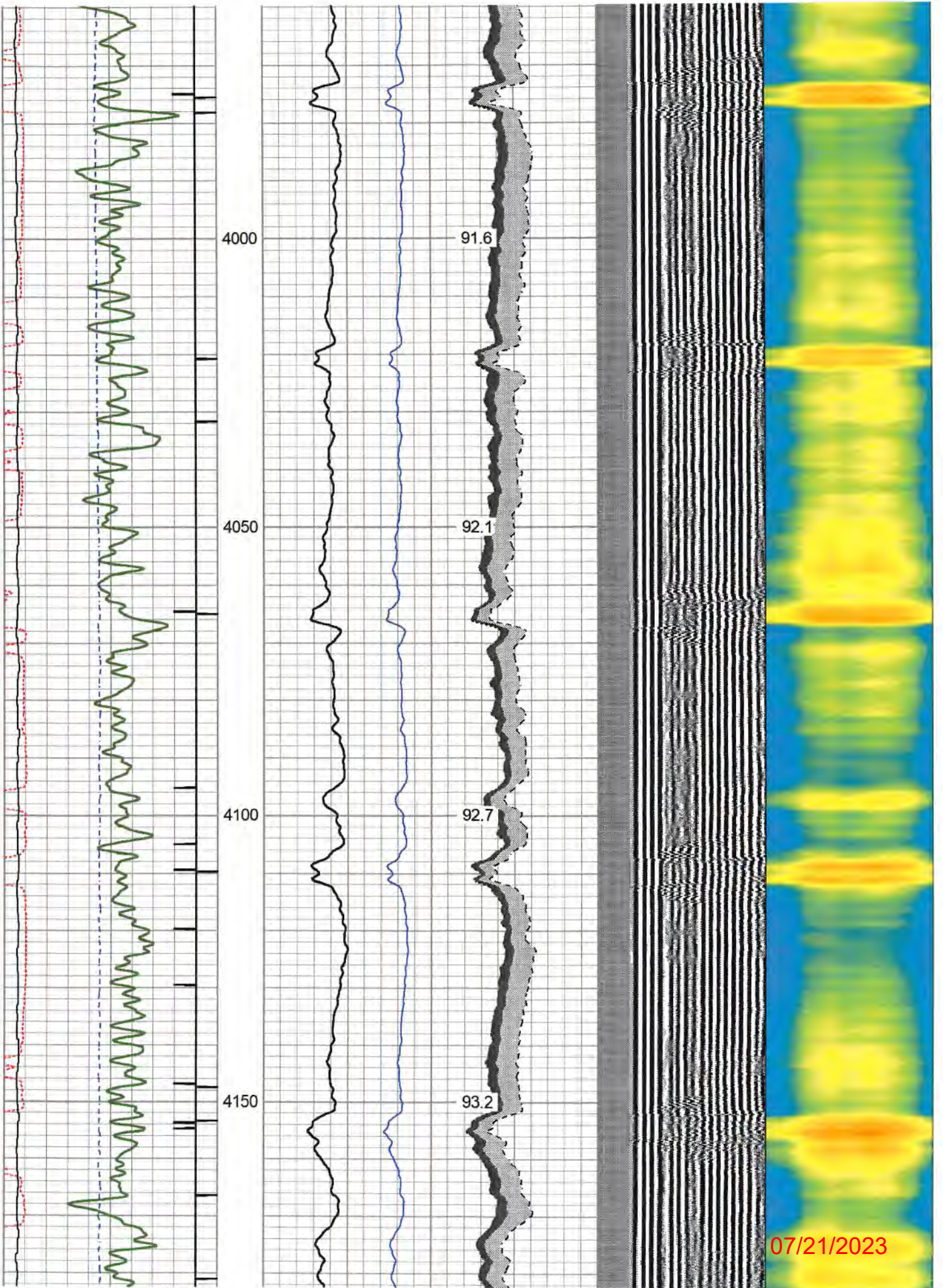




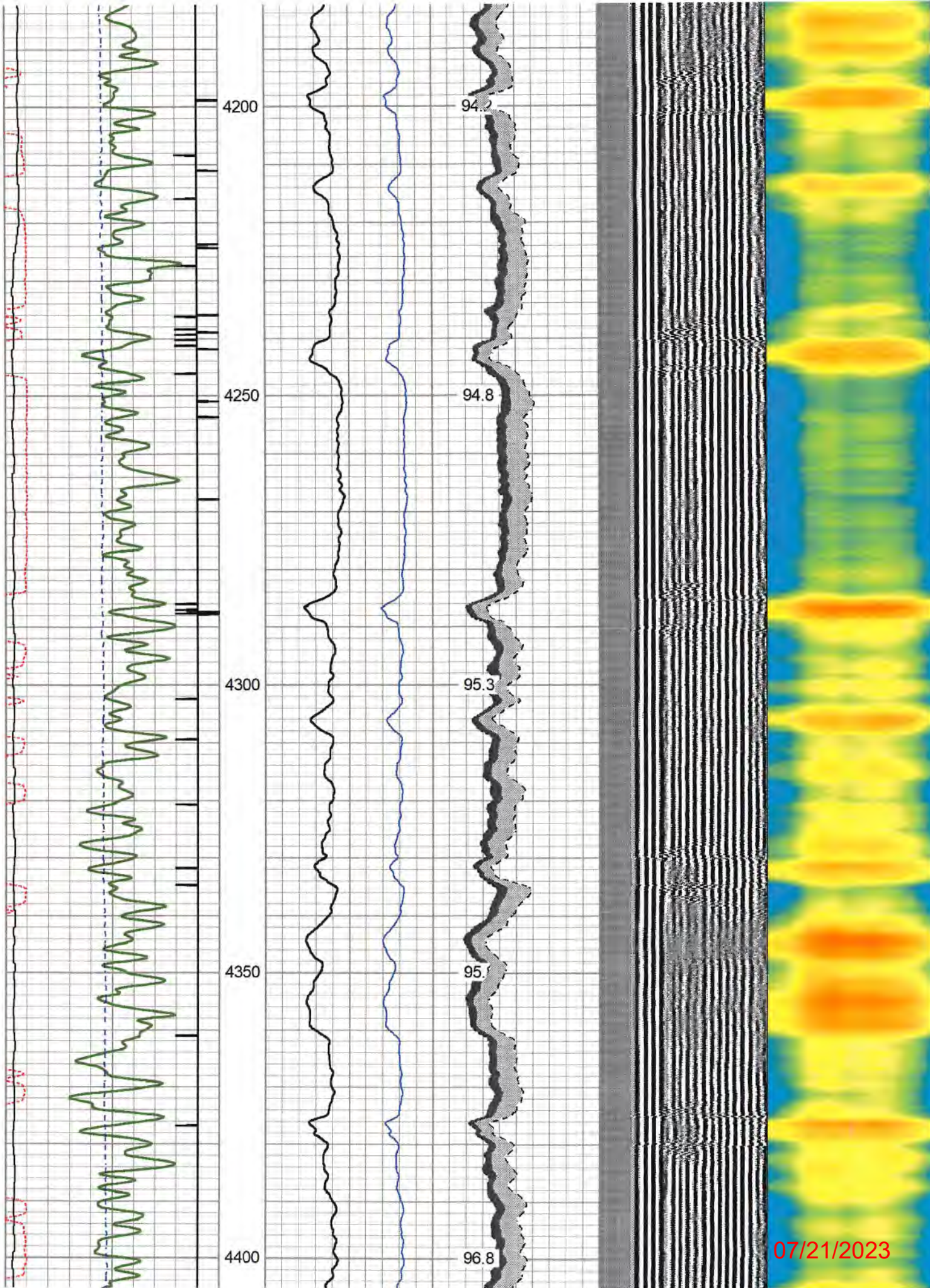
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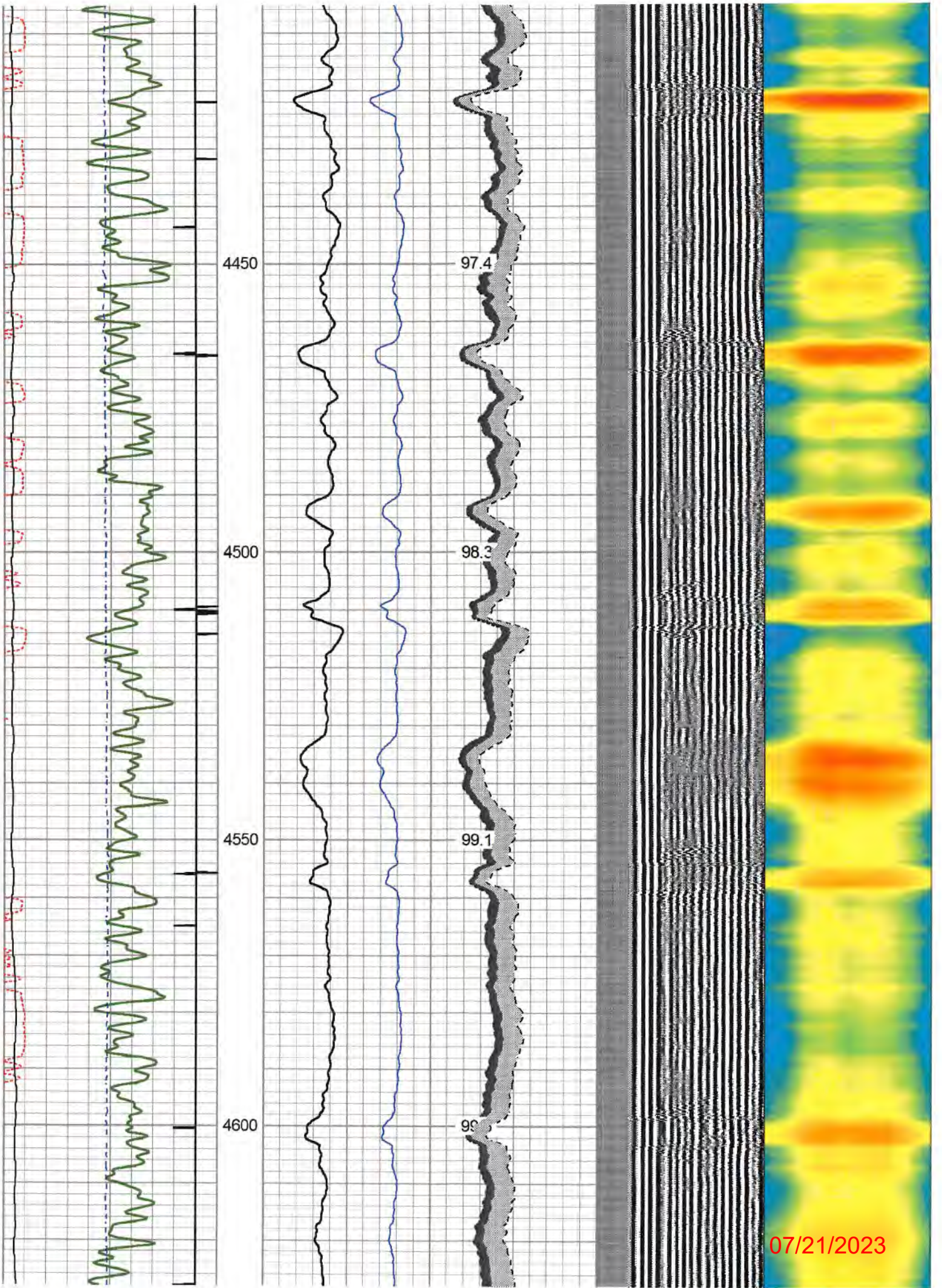
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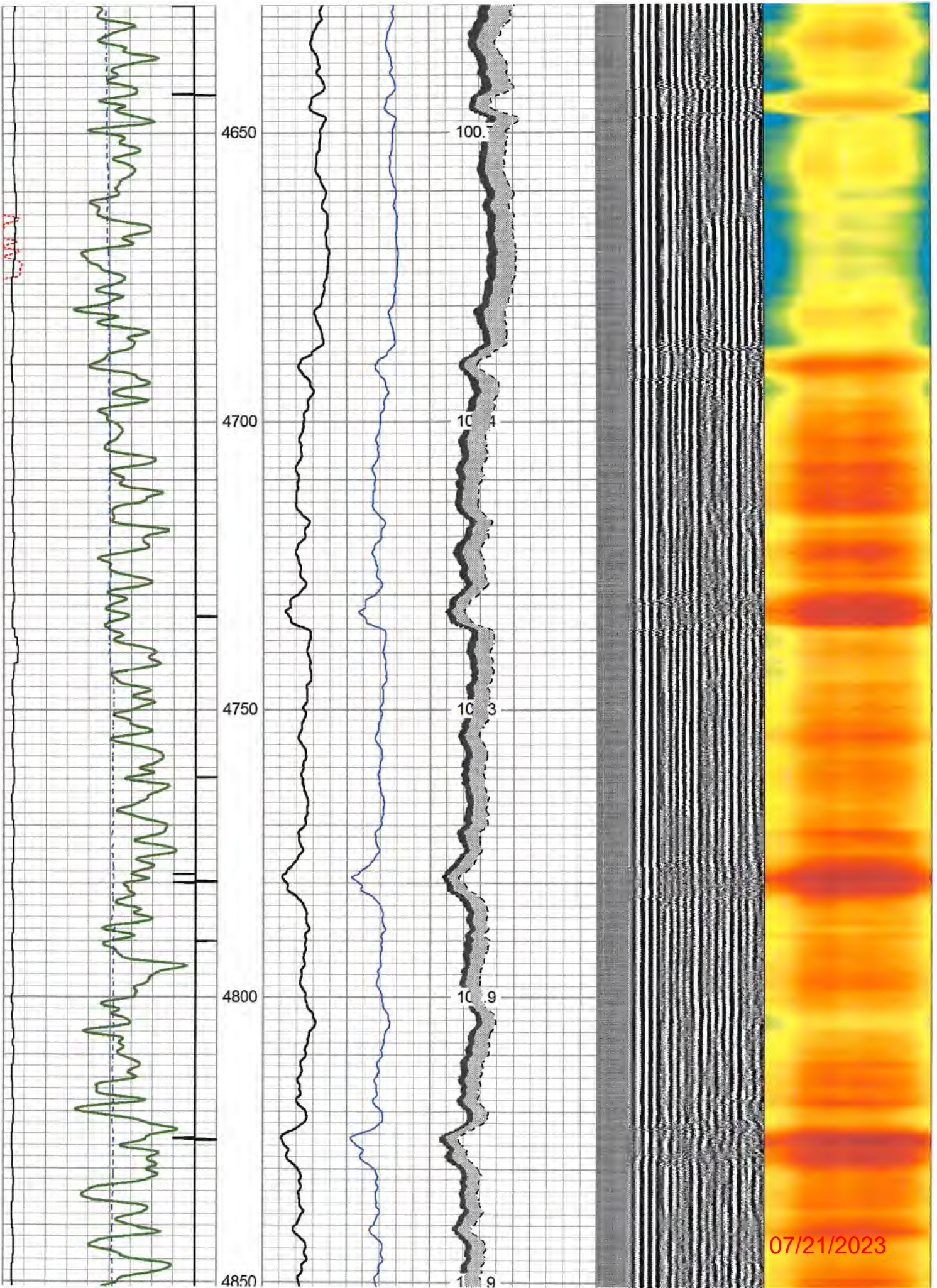
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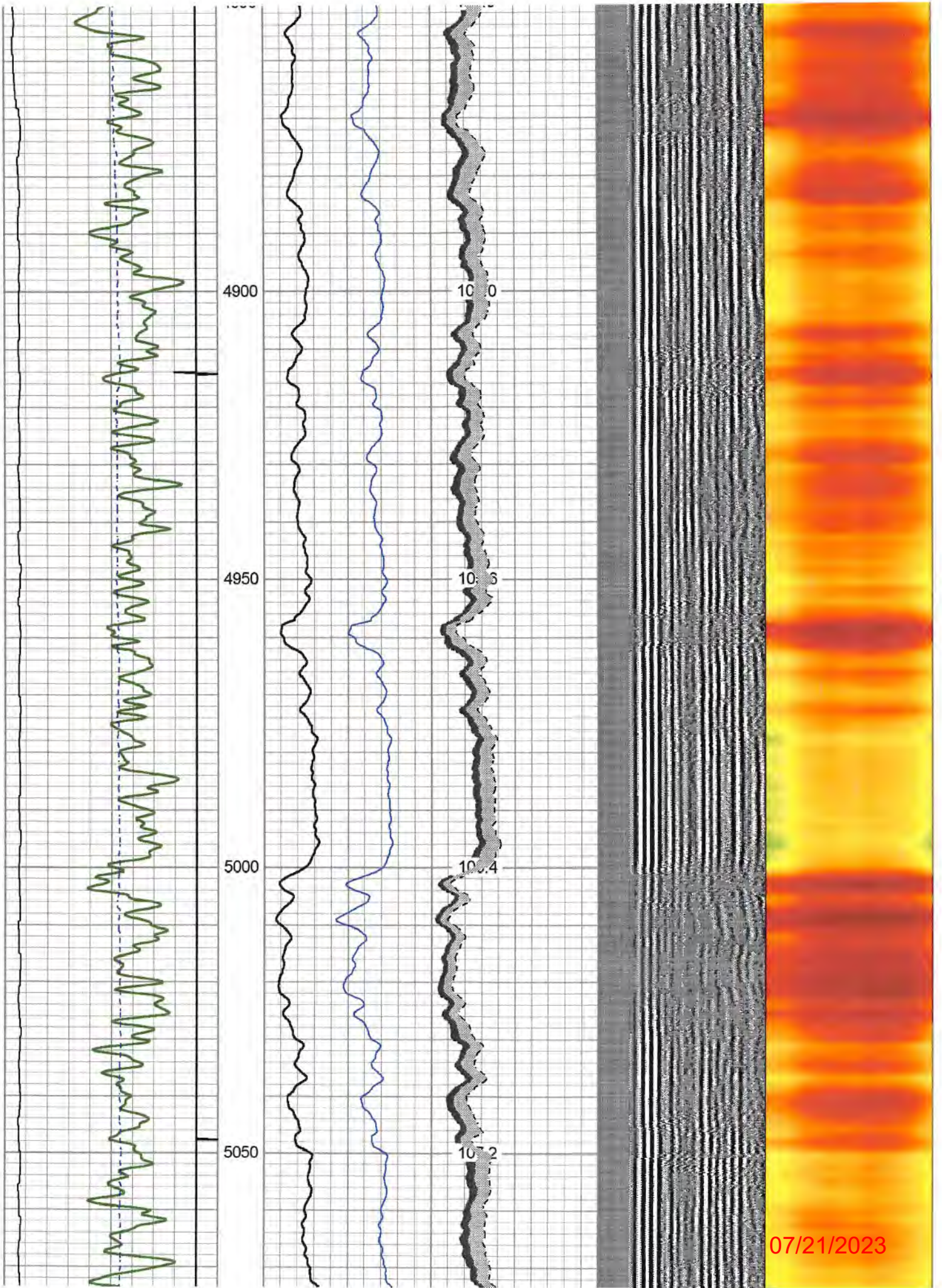


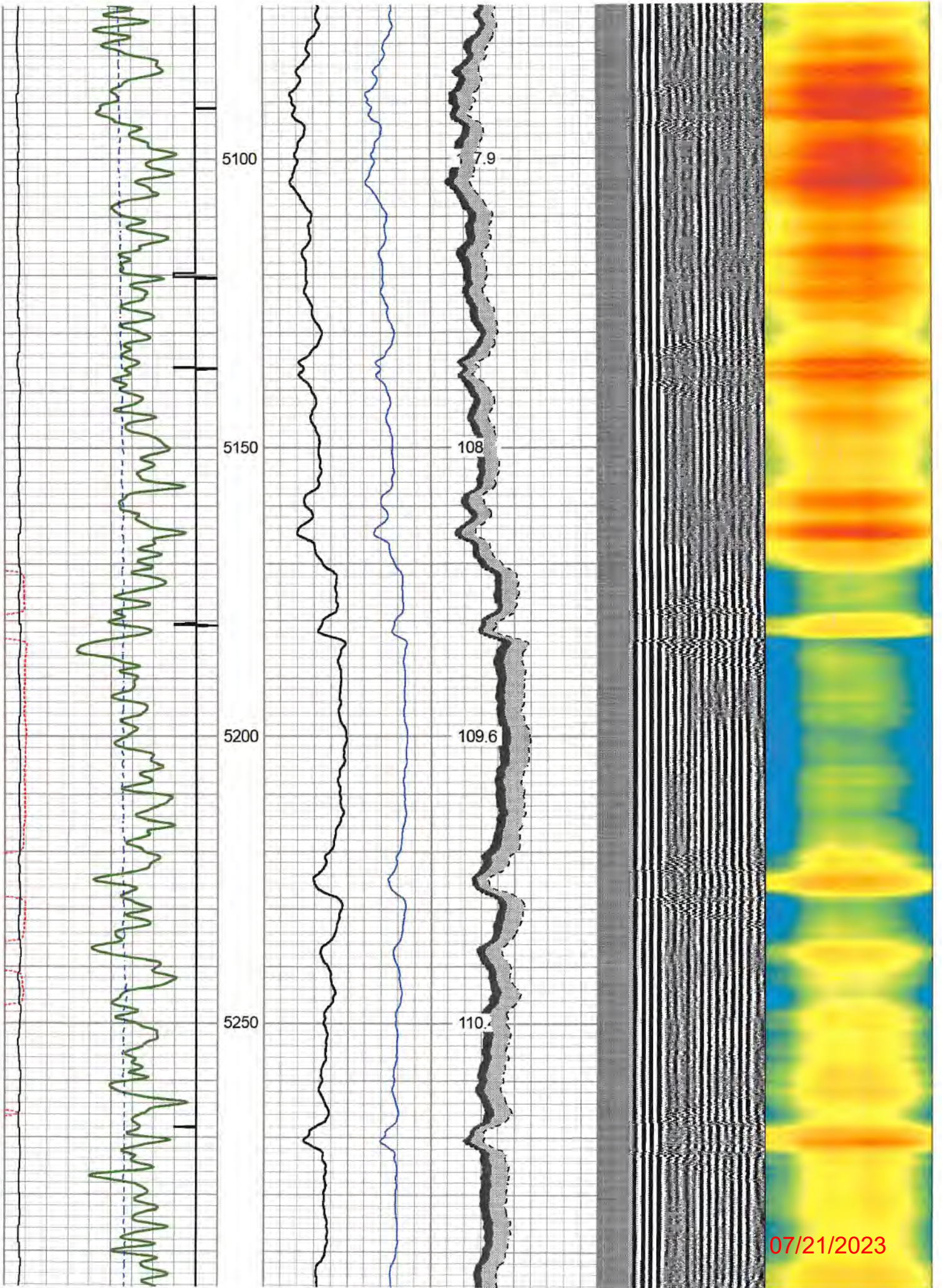
07/21/2023



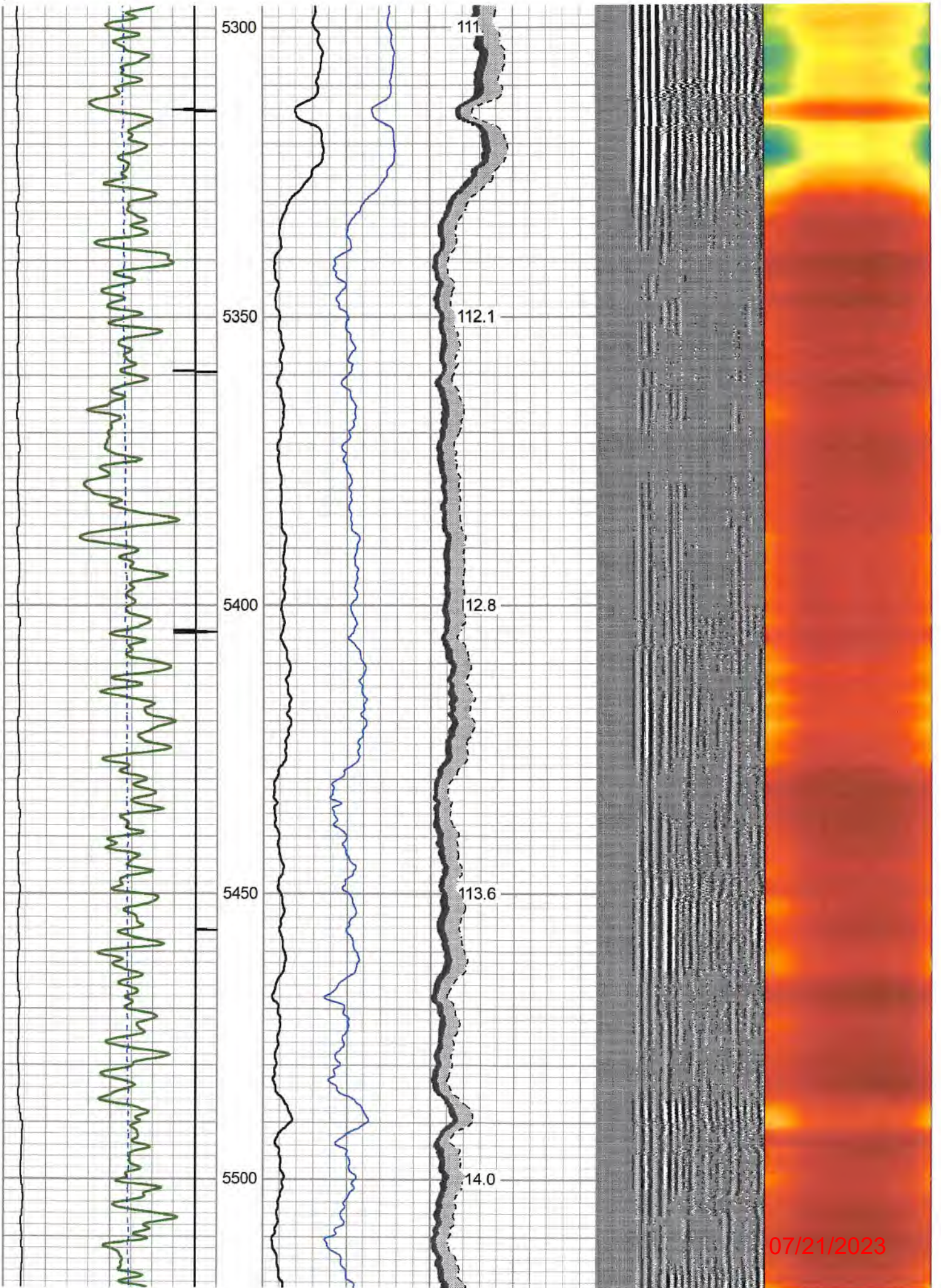
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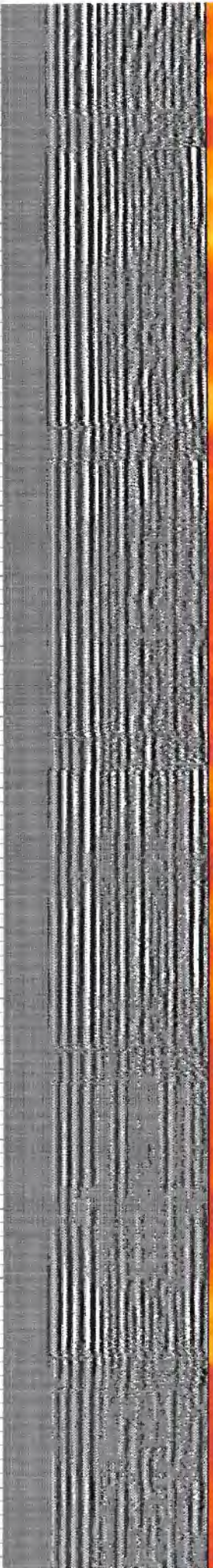
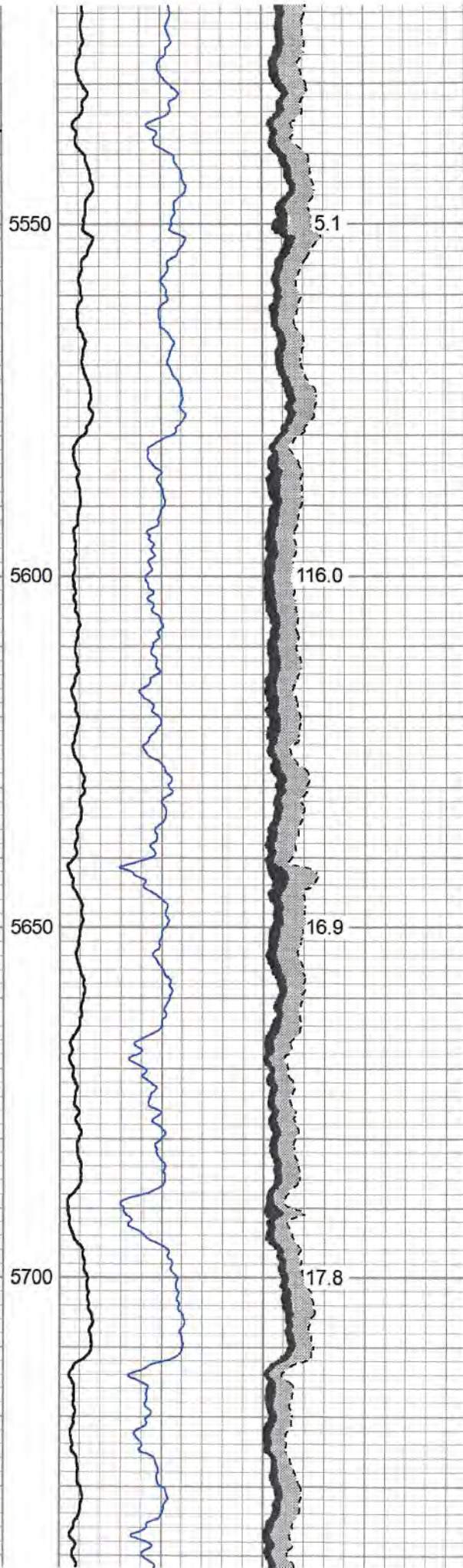
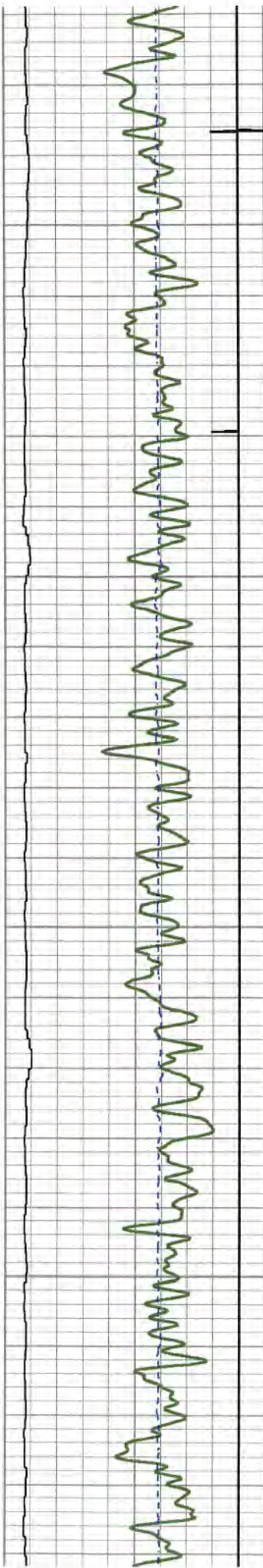




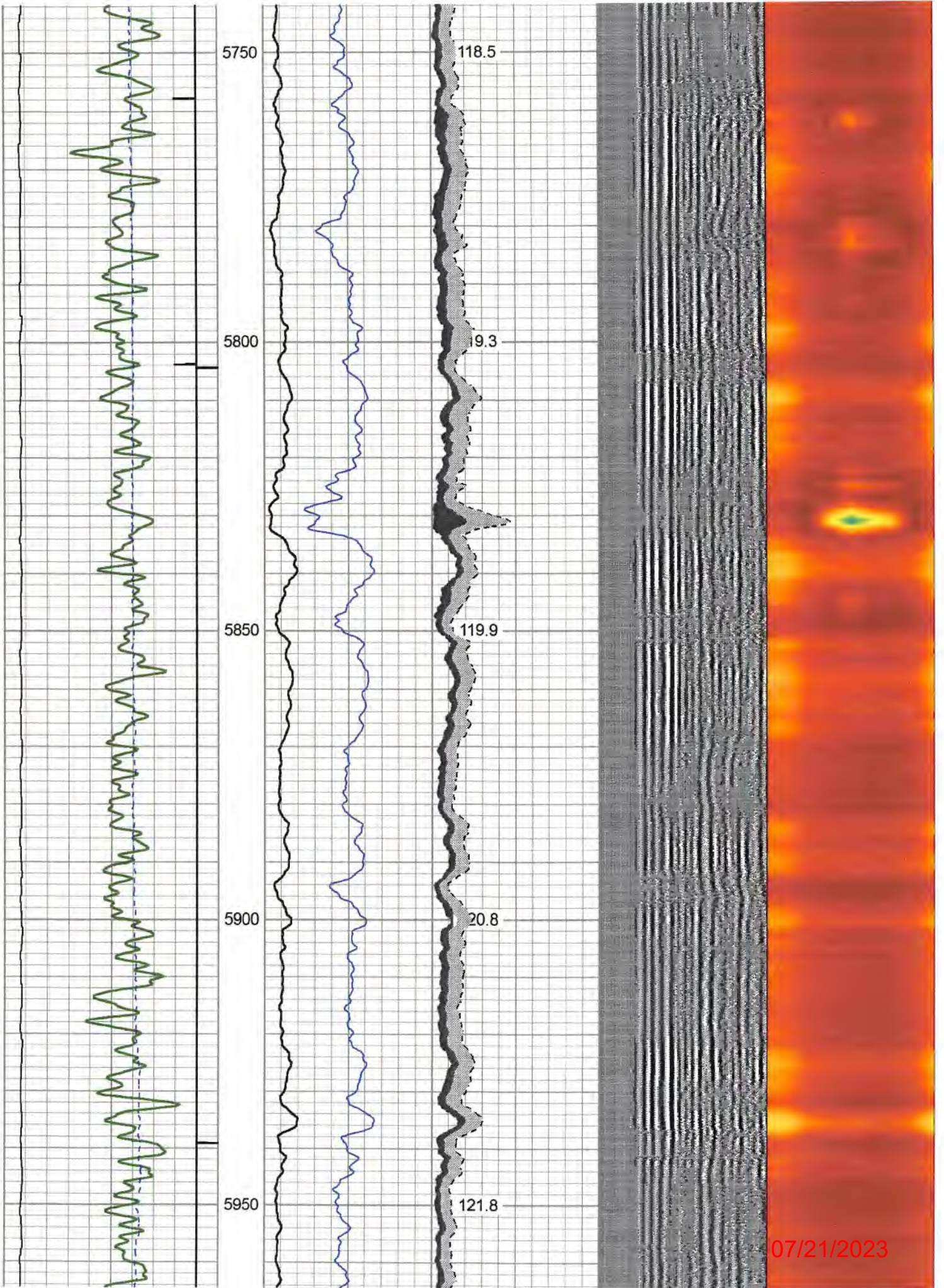
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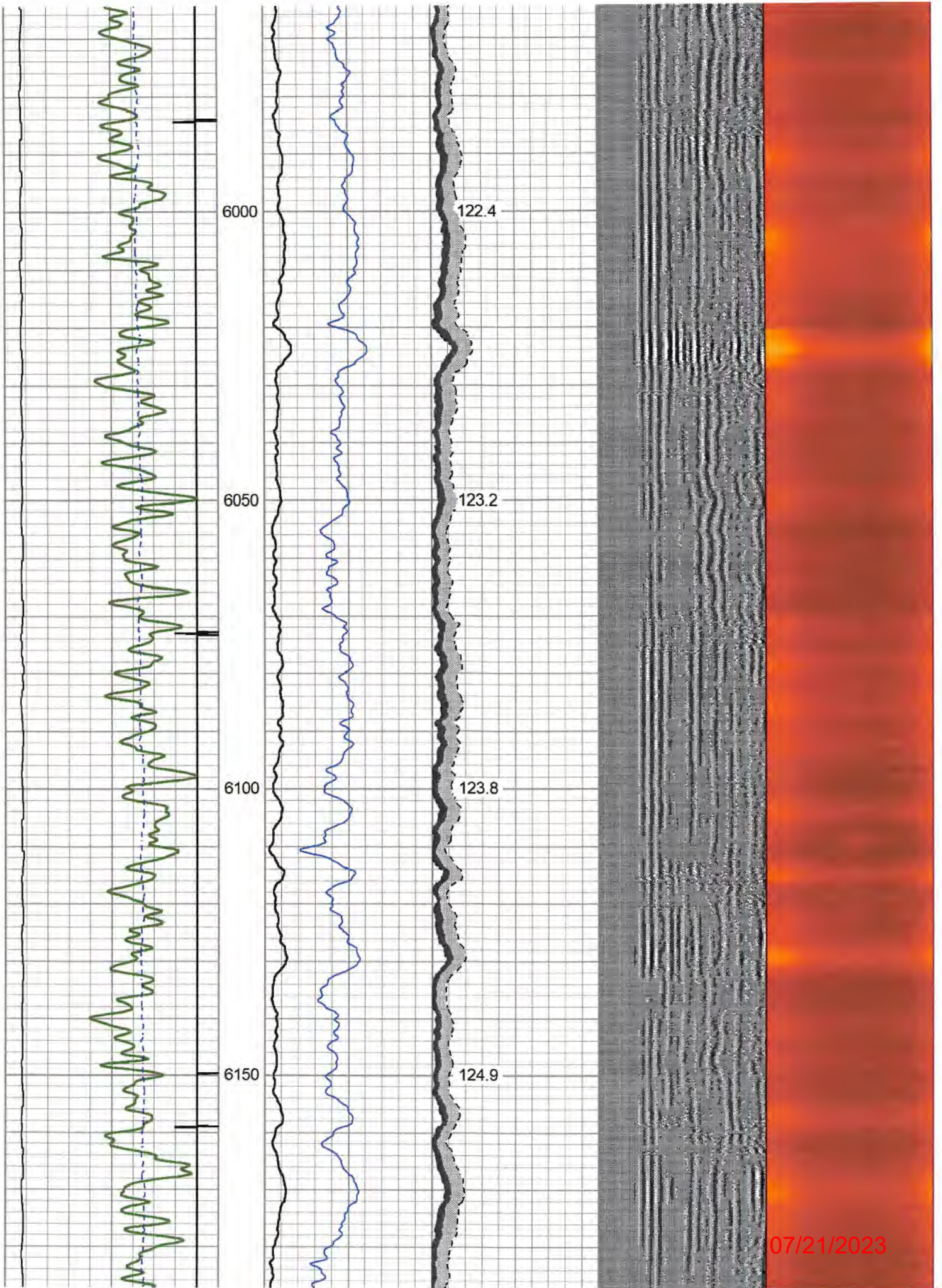


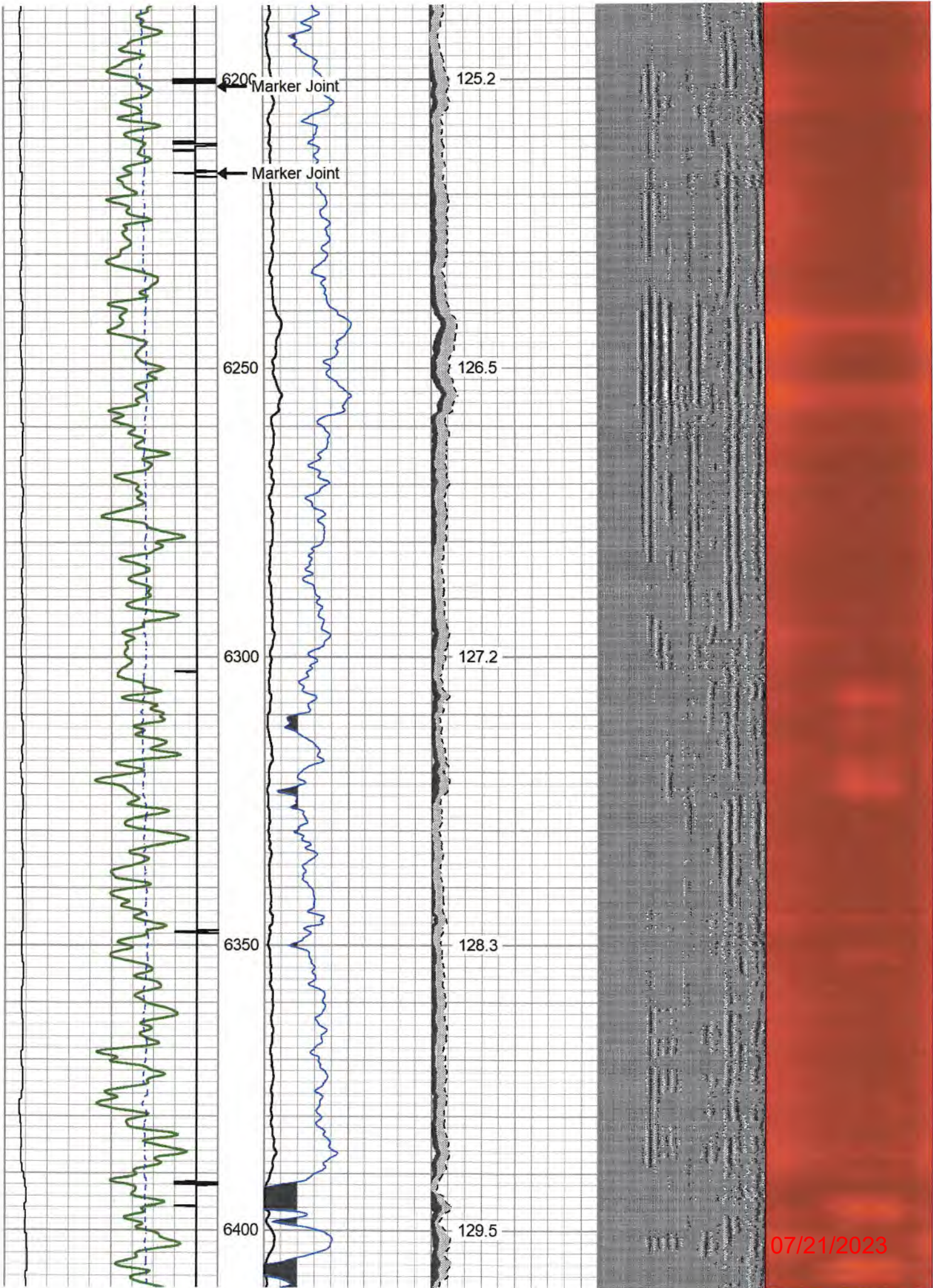
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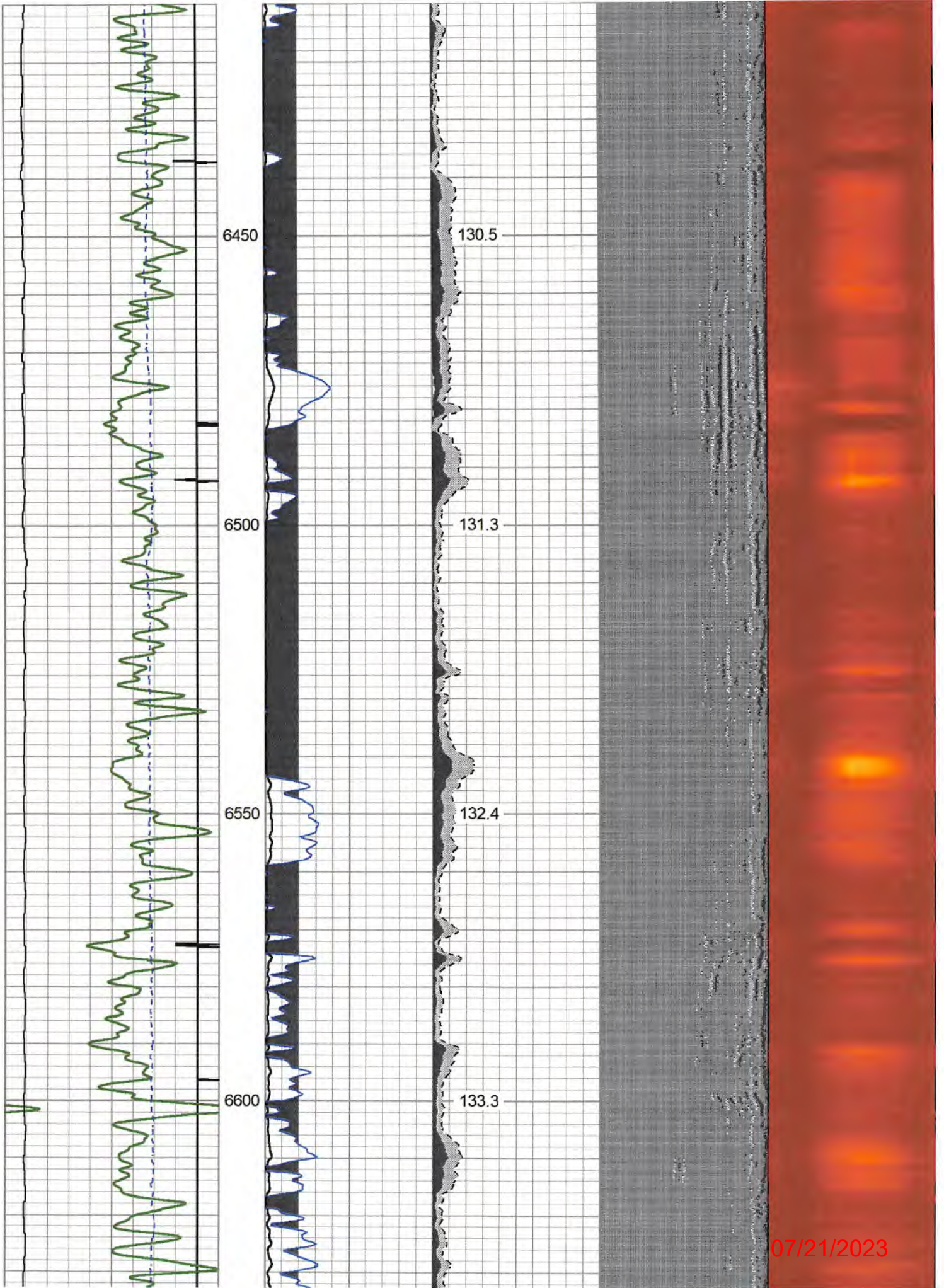


07/21/2023

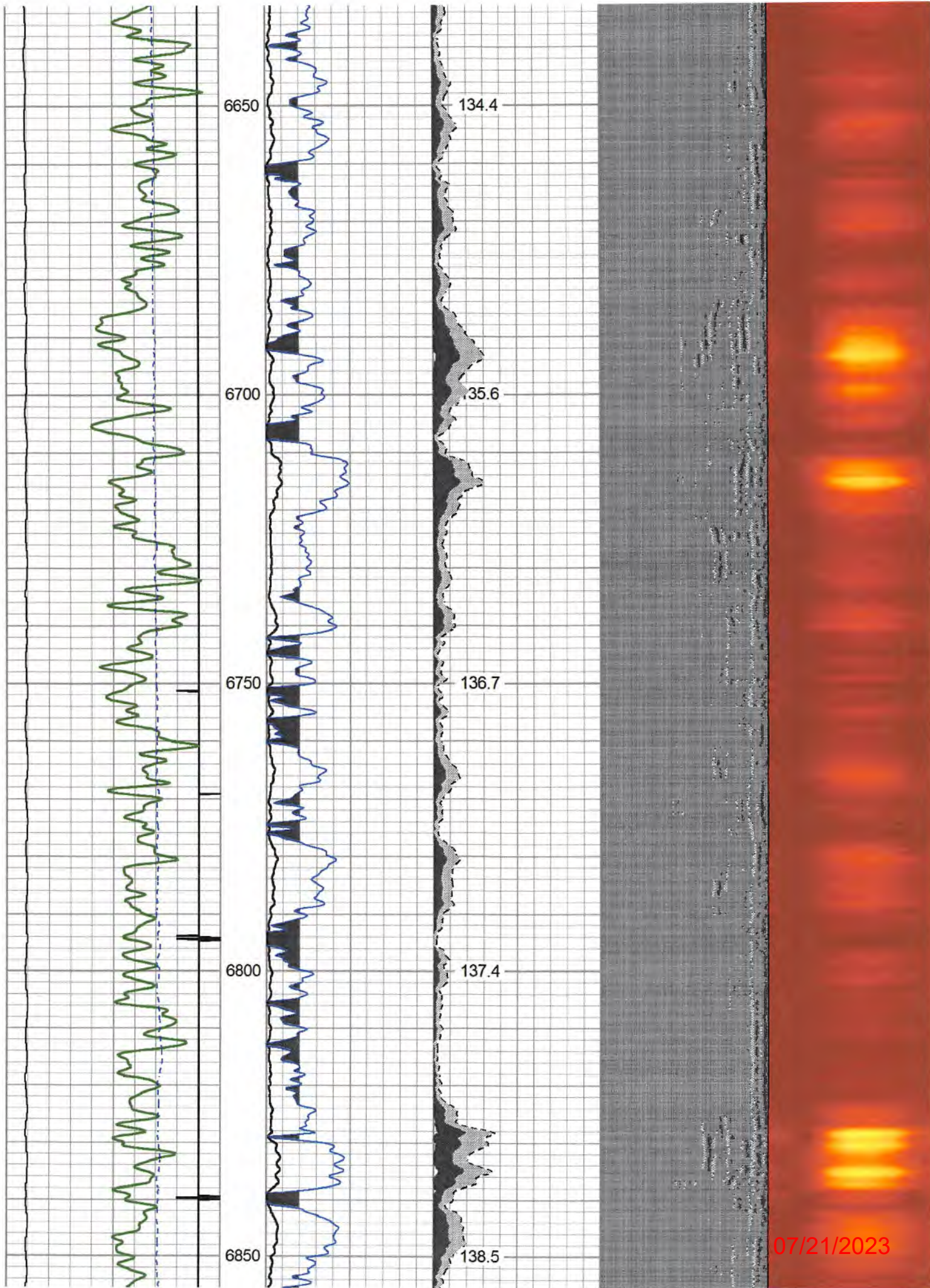




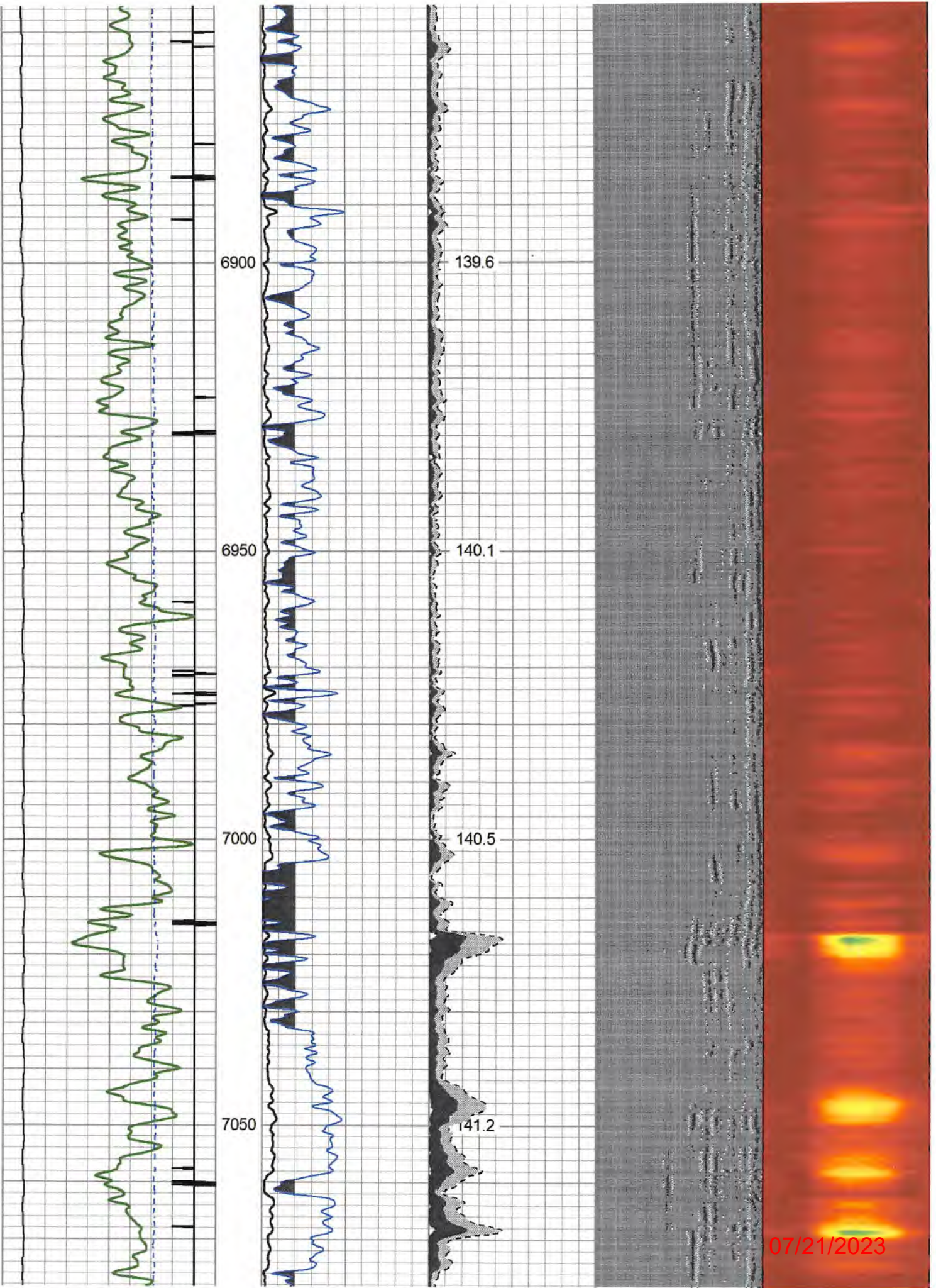




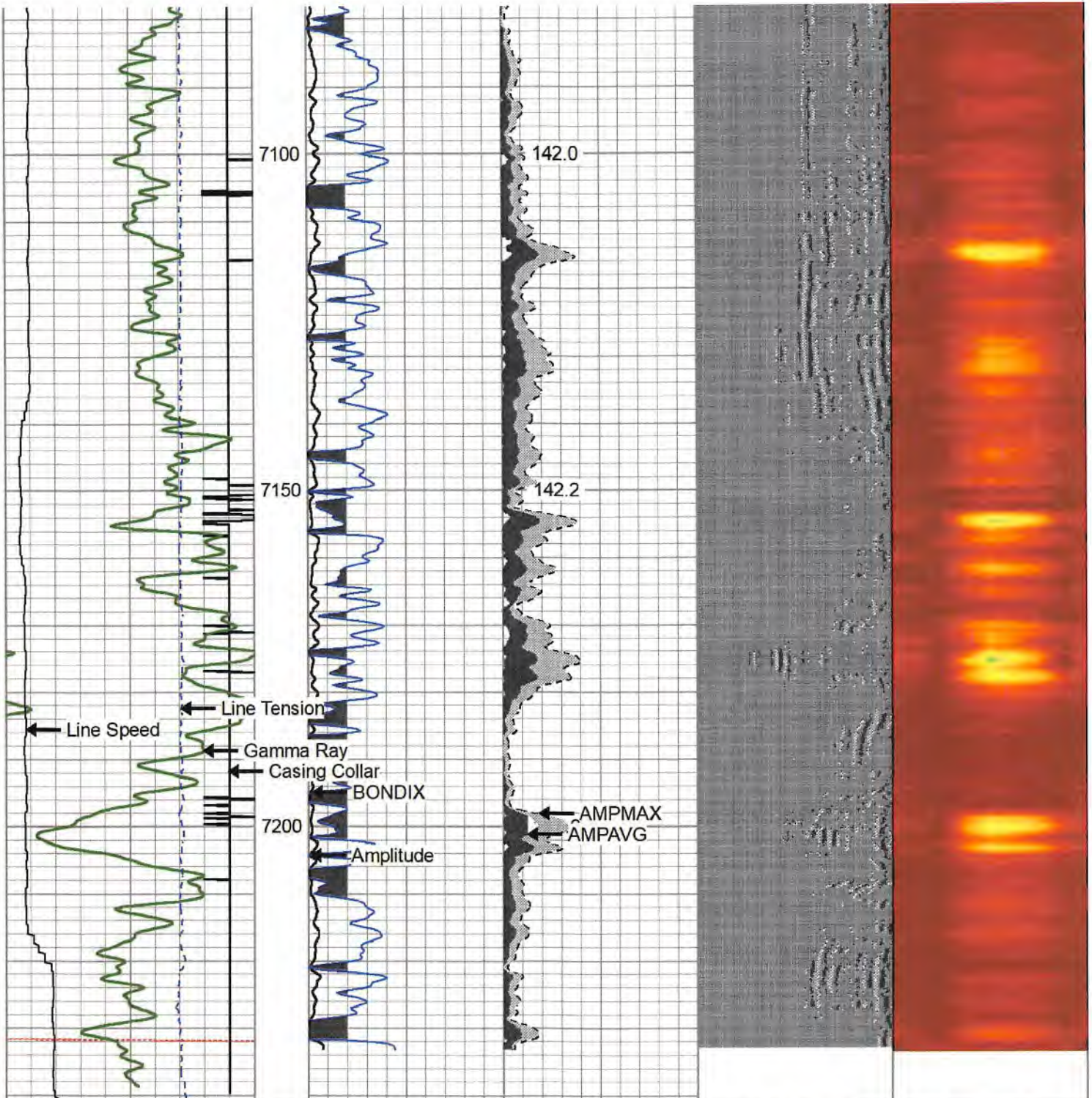
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07/21/2023



270	Travel Time (usec)	160	0	Amplitude (mV)	100	0	AMPMIN	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1	1	BONDIX	0	0	AMPMAX	150	200 (usec)	1200		
0	Gamma Ray (GAPI)	150	0	AMPAVG	150							
	Line Speed			TEMP								
-100	(ft/min)	100		(degF)								
0	Line Tension (lb)	2000										



Repeat Pass 0 PSI

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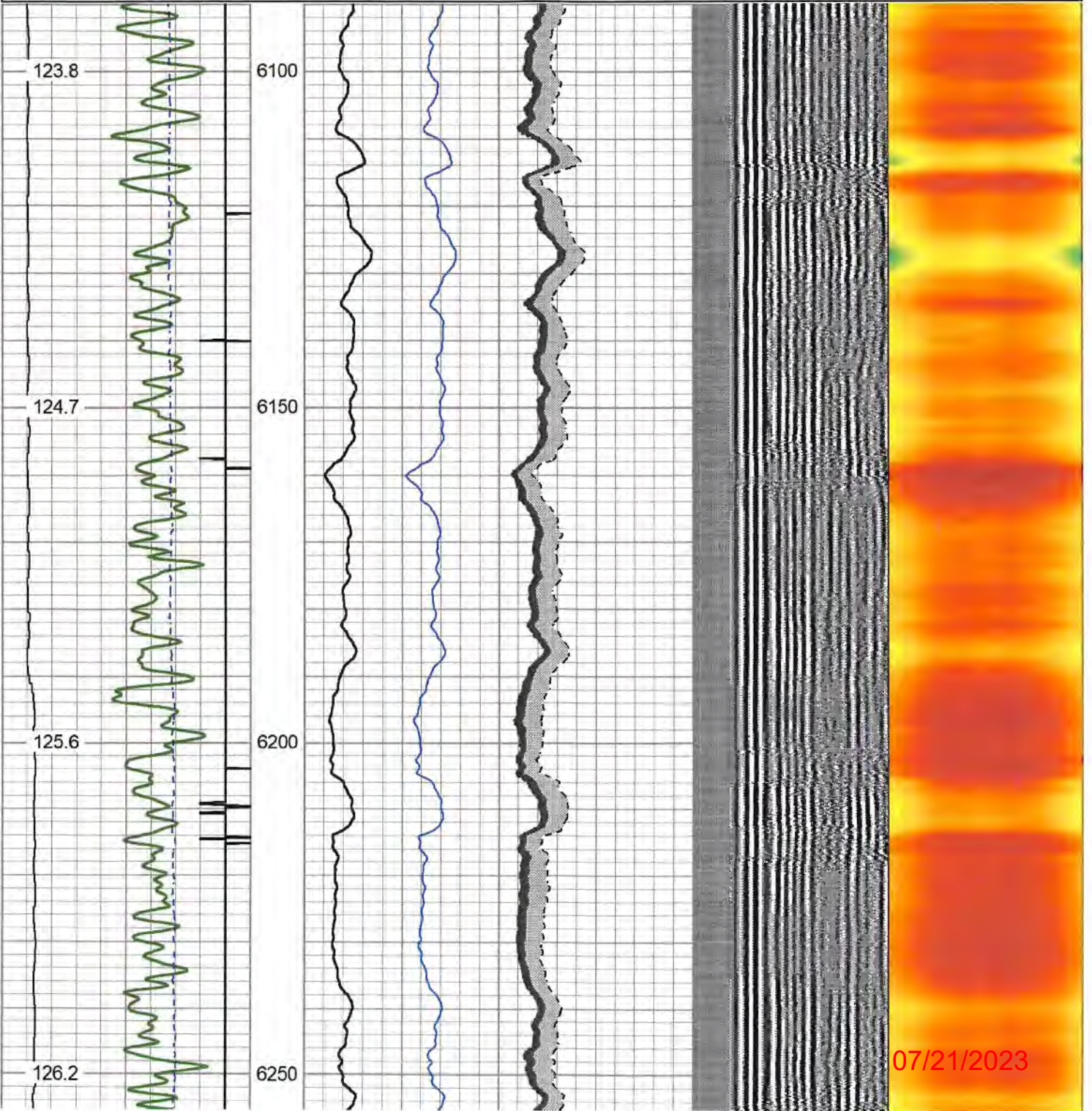
Database File antero_grand_pau_loweapn_fcb_23_May_2022.uu
 Dataset Pathname pass4
 Presentation Format rcbl-bond index for antero 1020
 Dataset Creation Mon May 23 19:46:31 2022
 Charted by Depth in Feet scaled 1:240

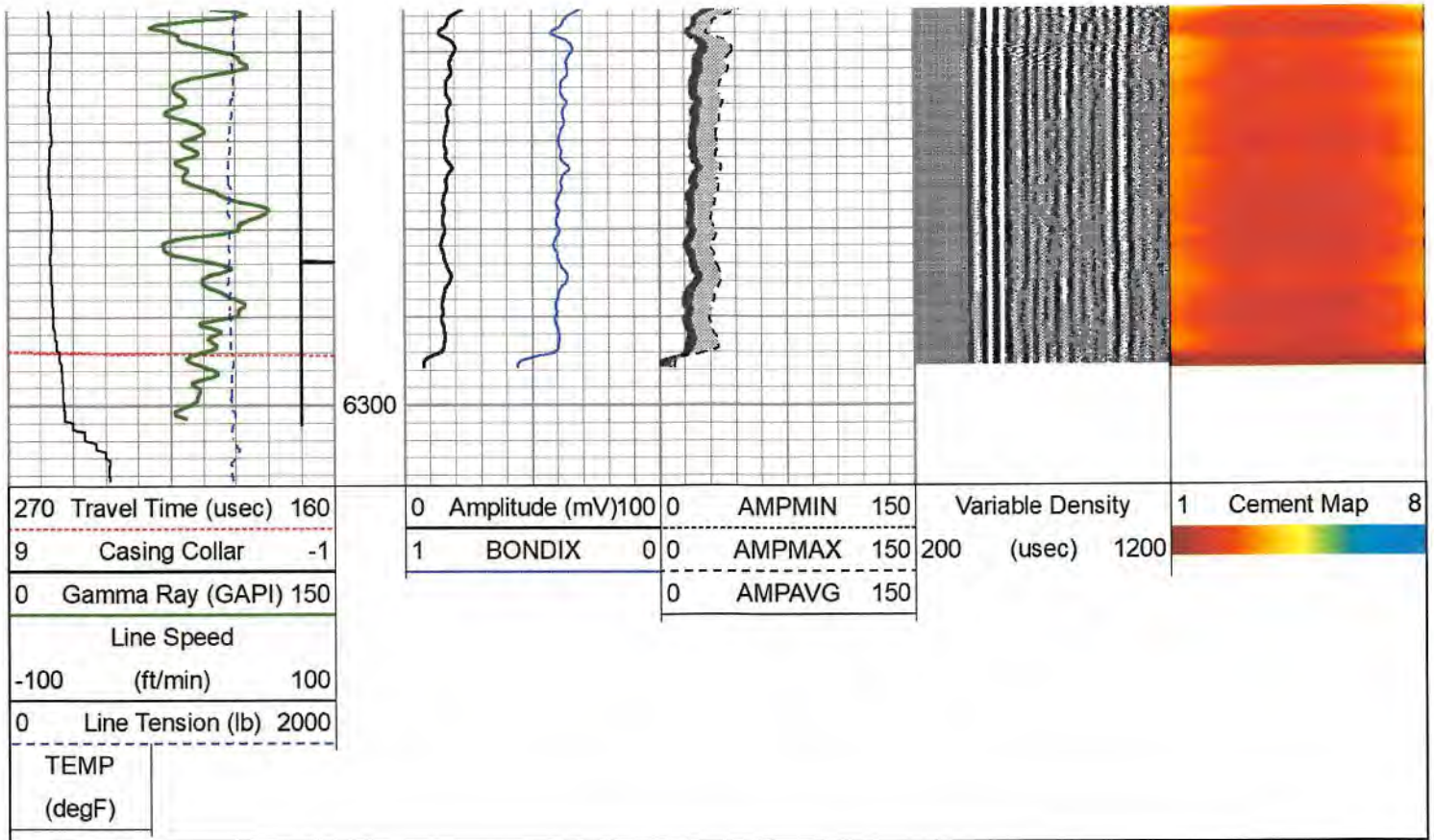
270 Travel Time (usec) 160
 9 Casing Collar -1
 0 Gamma Ray (GAPI) 150
 Line Speed
 -100 (ft/min) 100
 0 Line Tension (lb) 2000

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

Variable Density 1 Cement Map 8
 200 (usec) 1200

TEMP
 (degF)





Calibration Report

Database File antero_grand_pad_toroweap3h_rcbl_23_may_2022.db
 Dataset Pathname pass6
 Dataset Creation Mon May 23 20:08:38 2022

Gamma Ray Calibration Report

Serial Number: FW1211-86
 Tool Model: Probe
 Performed: Mon Nov 15 11:21:05 2021

Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.7000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 2.75"
 Tool Model: Probe275T

Calibration Casing Diameter: 5.500 in
 Calibration Depth: -0.050 ft

Master Calibration, performed Mon May 23 18:17:07 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.024	0.300	2.200	71.921	214.680	7.436
CAL	0.507	0.507				
5'	-0.014	0.284	2.200	71.921	233.812	5.494
SUM						

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S1	0.005	0.342	0.000	100.000	296.683	-1.423
S2	-0.027	0.306	0.000	100.000	299.503	8.219
S3	-0.025	0.309	0.000	100.000	299.339	7.473
S4	-0.025	0.296	0.000	100.000	311.459	7.741
S5	-0.024	0.286	0.000	100.000	322.875	7.788
S6	-0.027	0.289	0.000	100.000	316.342	8.480
S7	-0.023	0.296	0.000	100.000	313.269	7.338
S8	-0.026	0.306	0.000	100.000	300.414	7.950

Internal Reference Calibration, performed Wed Nov 23 14:17:52 2011:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.507	0.507	1.000	0.000

Air Zero Calibration, performed Mon May 23 18:17:31 2022:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	-0.025		0.000		0.000	
5'	-0.014		0.000		-0.000	
SUM						
S1	0.005		0.000		-0.000	
S2	-0.027		0.000		0.000	
S3	-0.025		0.000		-0.000	
S4	-0.025		0.000		0.000	
S5	-0.024		0.000		0.000	
S6	-0.027		0.000		-0.000	
S7	-0.023		0.000		-0.000	
S8	-0.027		0.000		0.000	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
			CHD-Titan Standard 1 7/16" Cable Head	1.02	1.44	1.00	
			CENT-Titn275Adj Titan 2 3/4" Adjustable Centralizer	2.86	2.75	35.00	
HeadVolt	19.83						
Temp	16.98						
WVFS8	14.75		RBT-Probe275T (2.75") Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00	
WVFS7	14.75						
WVFS6	14.75						
WVFS5	14.75						
WVFS4	14.75						

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WVFS3	14.75					
WVFS2	14.75					
WVFS1	14.75					
WVF3FT	14.75					
WVF5FT	13.75					
WVFCAL	10.50					
HEADVOLT	10.50					
			CENT-Titn275Adj Titan 2 3/4" Adjustable Centralizer	2.86	2.75	35.00
CCL	6.73					
GR	5.40		GR-Probe (FW1211-86) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
			CENT-Titn275Adj Titan 2 3/4" Adjustable Centralizer	2.86	2.75	35.00

Dataset: antero_grand_pad_toroweap3h_rcbl_23_may_2022.db: field/well/run1/pass6
 Total length: 23.77 ft
 Total weight: 253.00 lb
 O.D.: 2.75 in

	Company	ANTERO RESOURCES
	Well	TOROWEAP 3H
	Field	MARCELLUS
	County	TYLER
	State	WV