



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

Company Antero Resources
Well Eldon Folger 3H
Field River Front
County Tyler 4709502785
State WV

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Well Eldon Folger 3H
Field River Front
County Tyler State WV

Location: API #: 47-095-~~02784~~

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	17-Sep-2022	One		
Run Number		21,932'		
Depth Driller		7,416'		
Depth Logger		7,421'		
Bottom Logged Interval		Surface		
Top Log Interval		8.75"		
Open Hole Size		Water		
Type Fluid		8.3#		
Density / Viscosity		138 Deg.F.		
Max. Recorded Temp.		6,960'		
Estimated Cement Top		13.00		
Time Well Ready		13.33		
Time Logger on Bottom		104 P2 G2		
Equipment Number		Charleroi		
Location		Matt McNally		
Recorded By		Justin Deffie		
Witnessed By				
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	21,932'

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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 Marker Joint at 6,519'-6,531'
Depth Shift -35'
Main Pass 1,500 PSI
Repeat Pass 0 PSI
100 % Free Pipe= 71.9mv
100 % Bond=3.4mv

Thank You for Choosing Nine Energy of Charleroi, Pa.



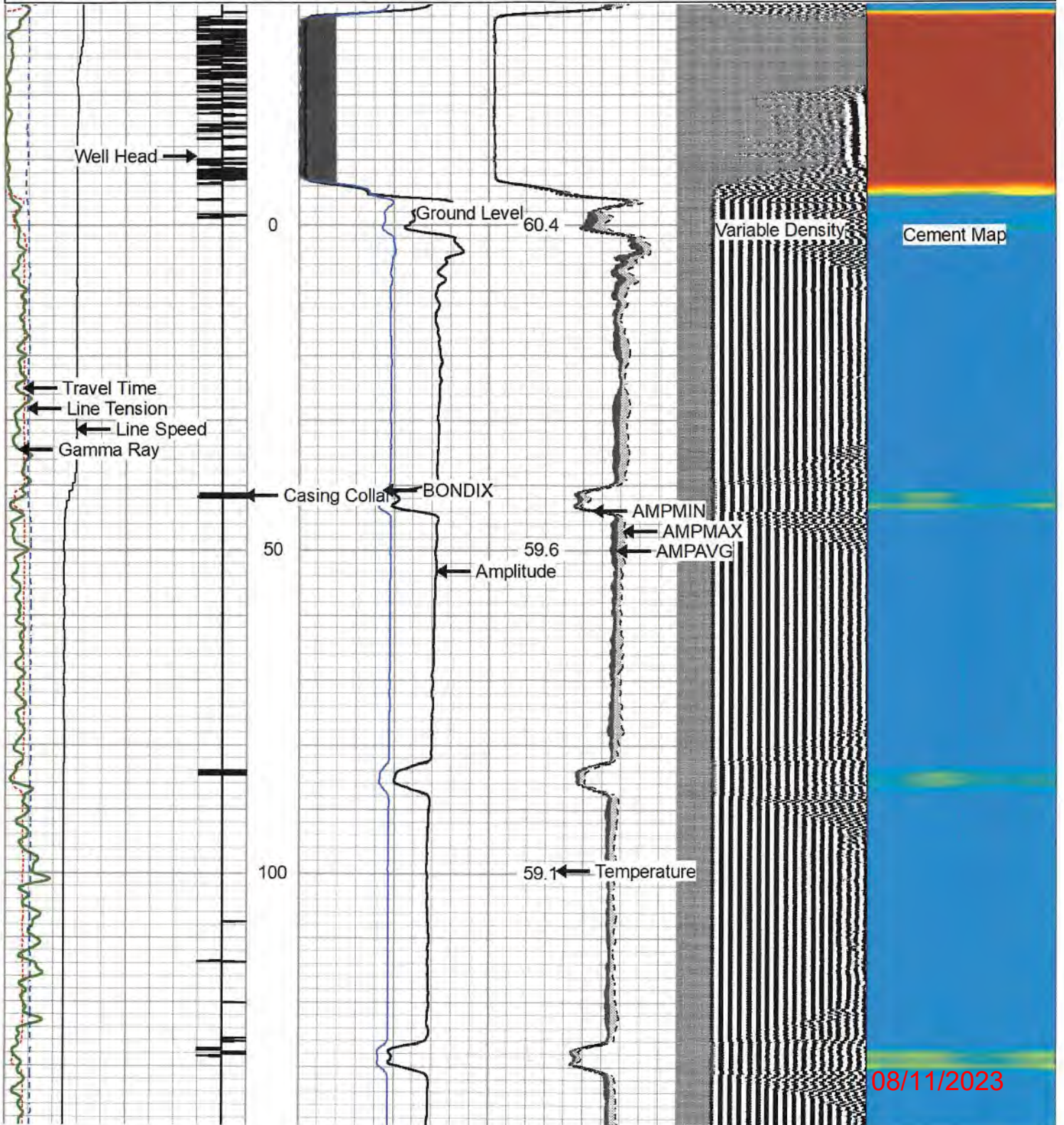
Main Pass 1,500 PSI

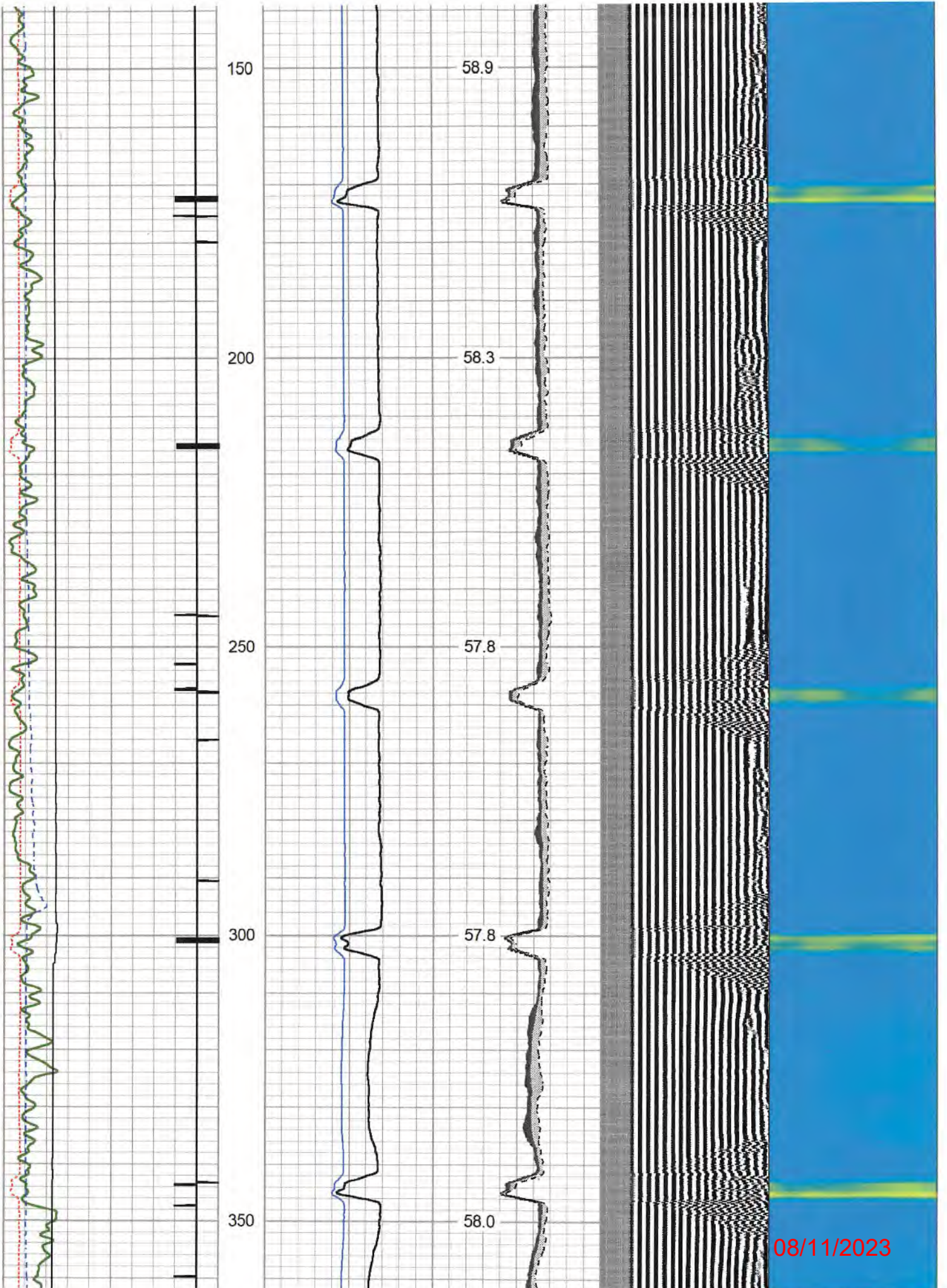
Database File antero_folger_3h_rcbl_17_sep_2022.db
 Dataset Pathname river_front/folger_3h/run1/pass6
 Presentation Format rcbl-bond index 1020
 Dataset Creation Sat Sep 17 00:05:25 2022
 Charted by Depth in Feet scaled 1:240

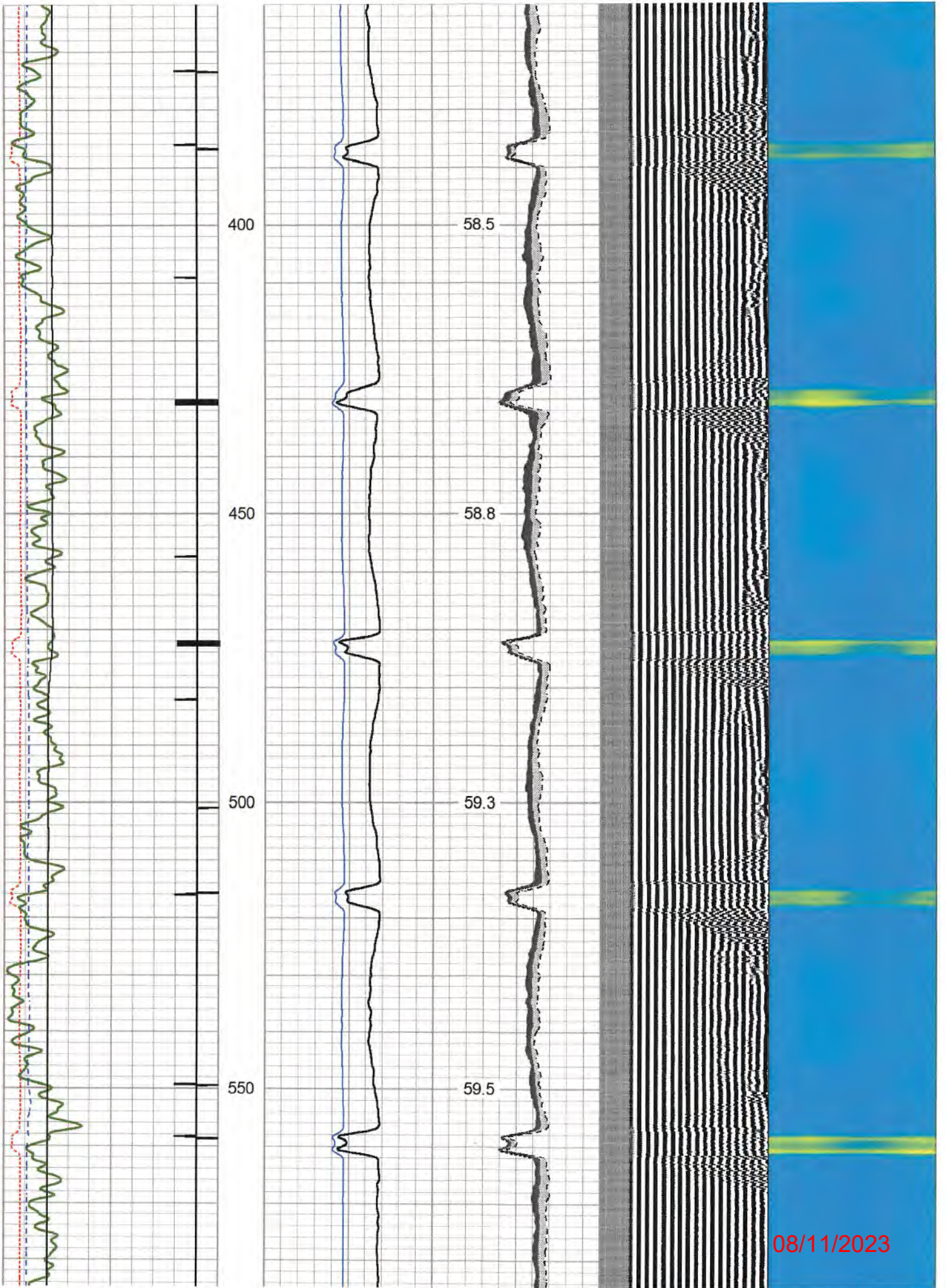
270	Travel Time (usec)	160
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
Line Speed		
-200	(ft/min)	200
0	Line Tension (lb)	3000

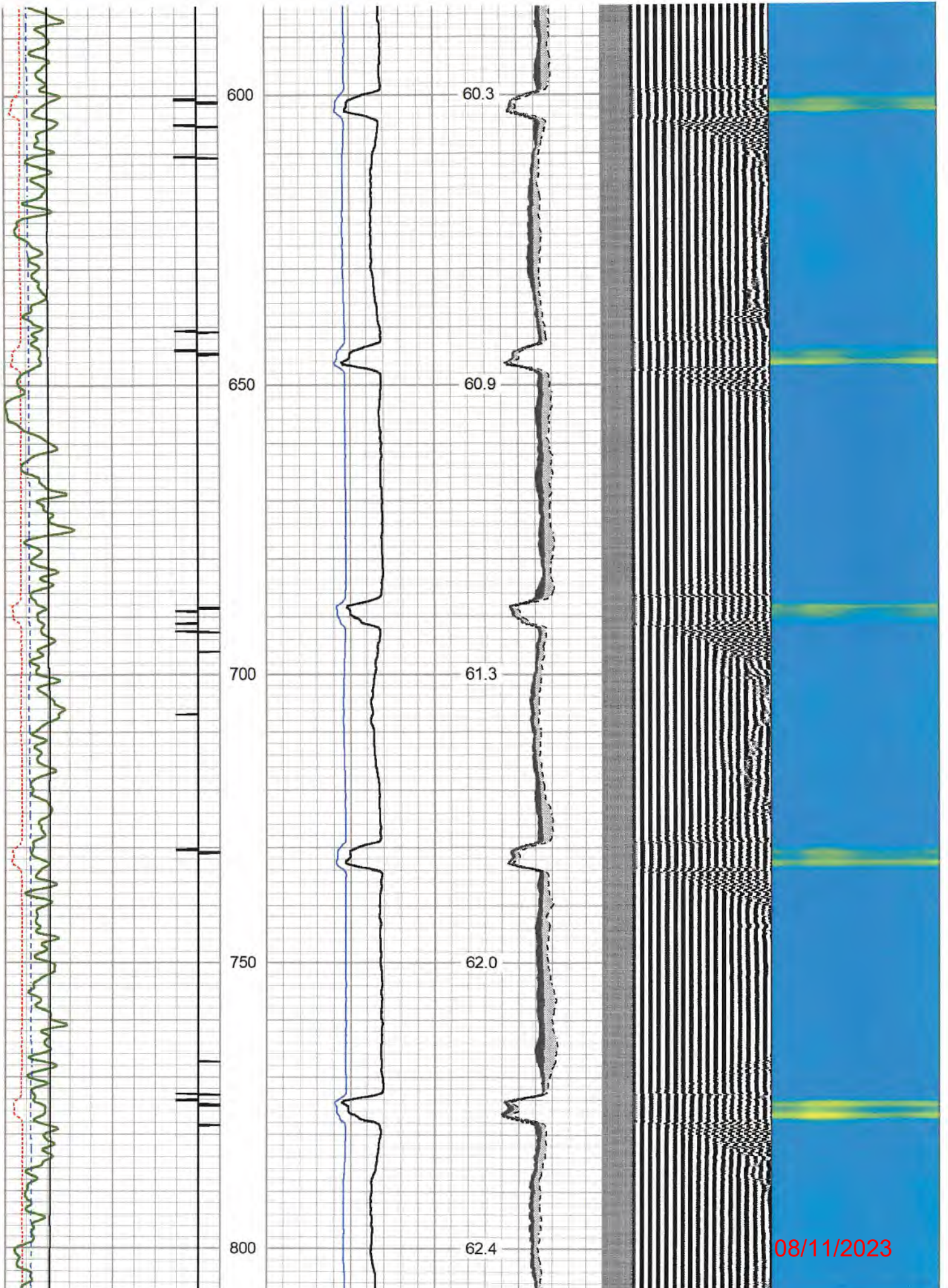
0	Amplitude (mV)	100	-5	AMPMIN	150
1	BONDIX	0	-5	AMPMAX	150
			-5	AMPAVG	150
TEMP					
(degF)					

Variable Density	1	Cement Map	8
200	(usec)	1200	

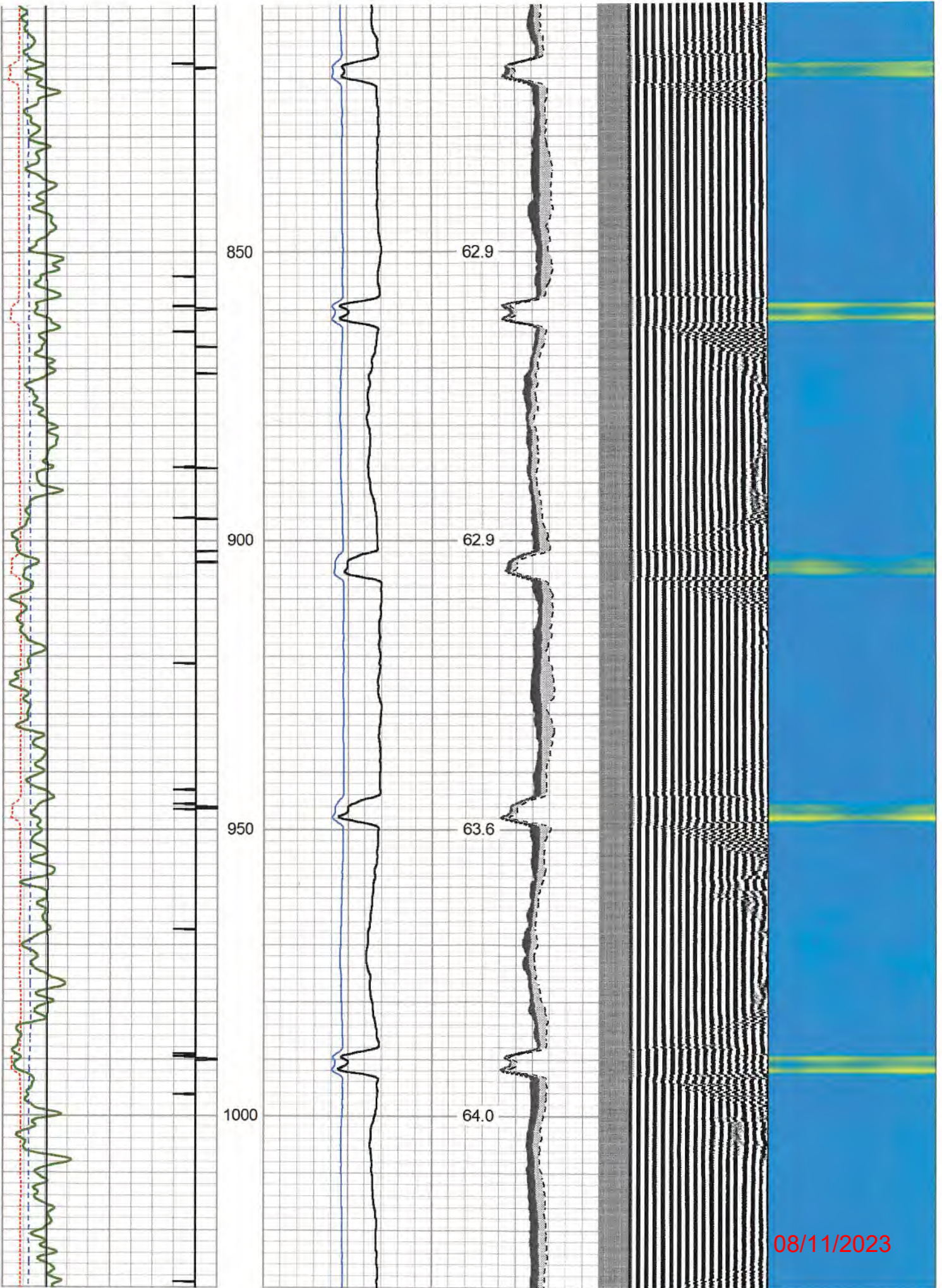




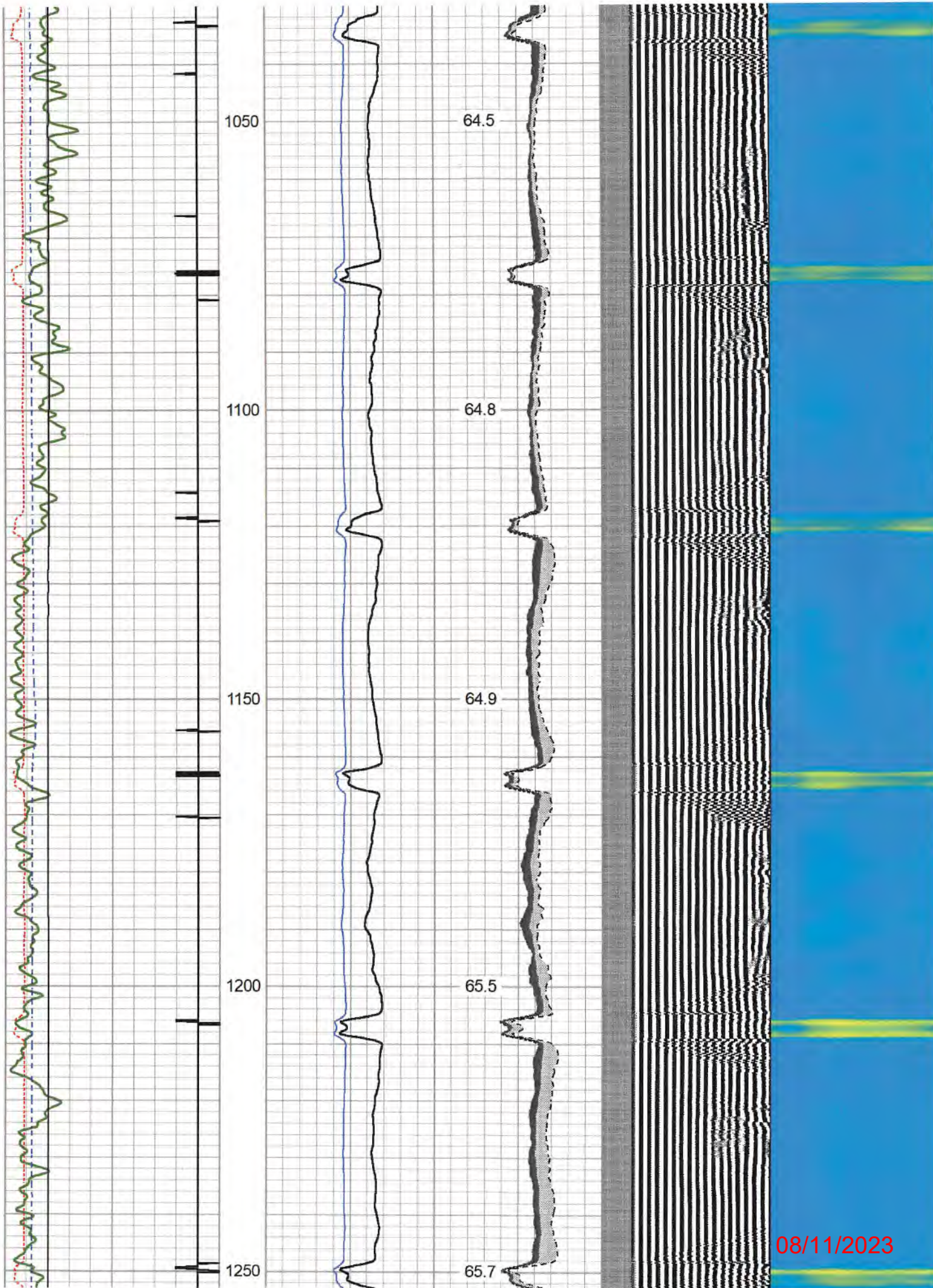




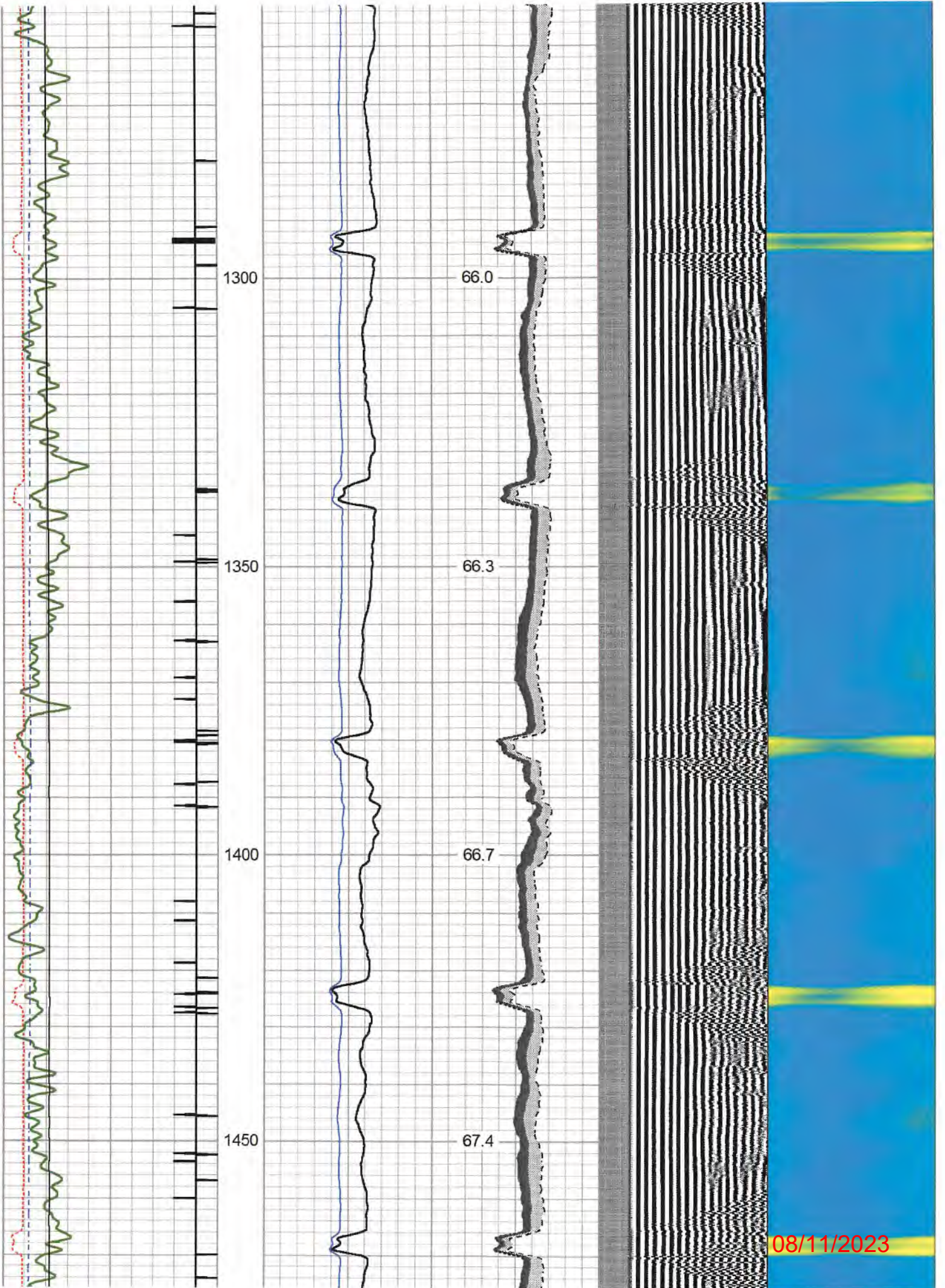
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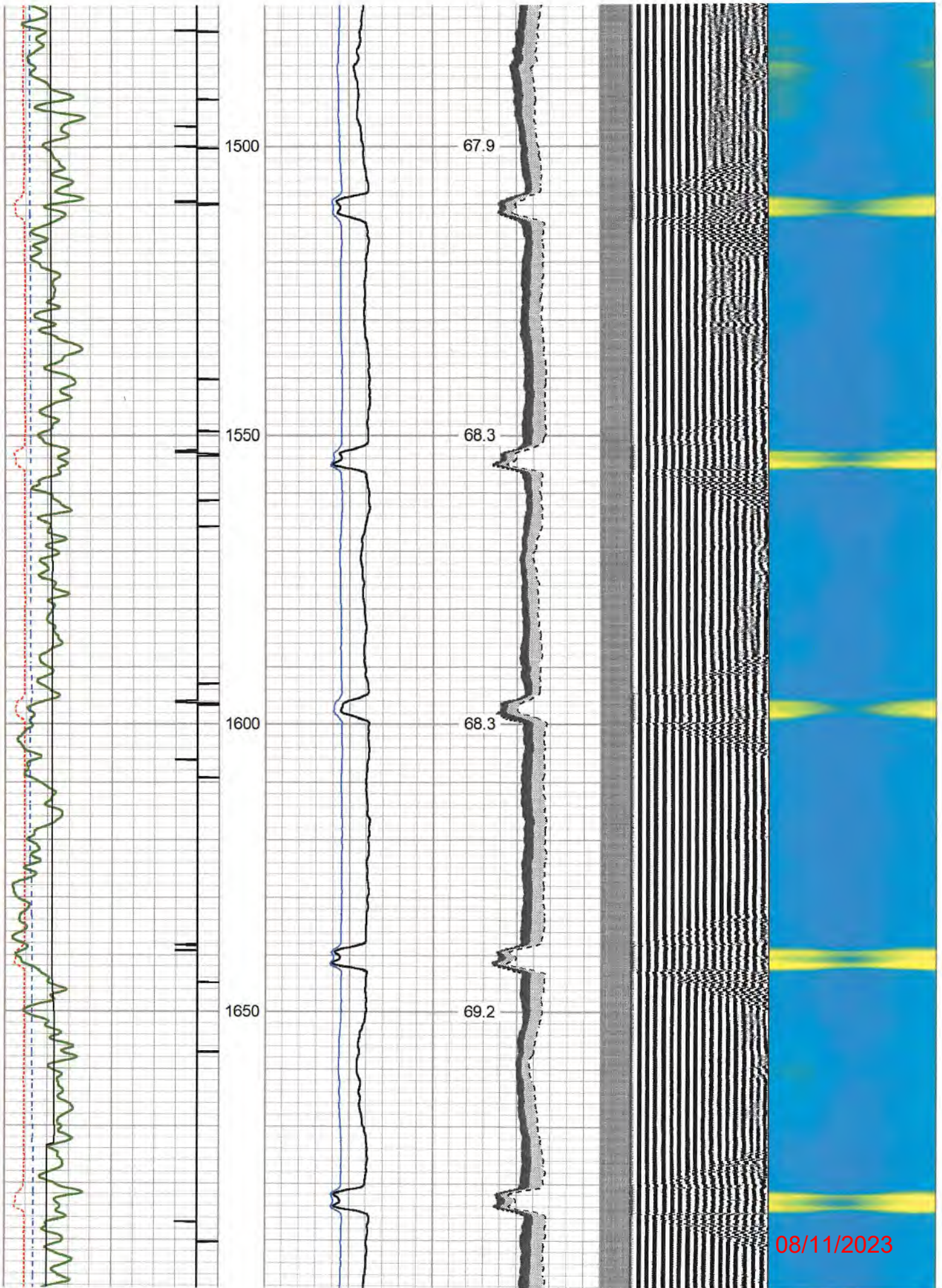
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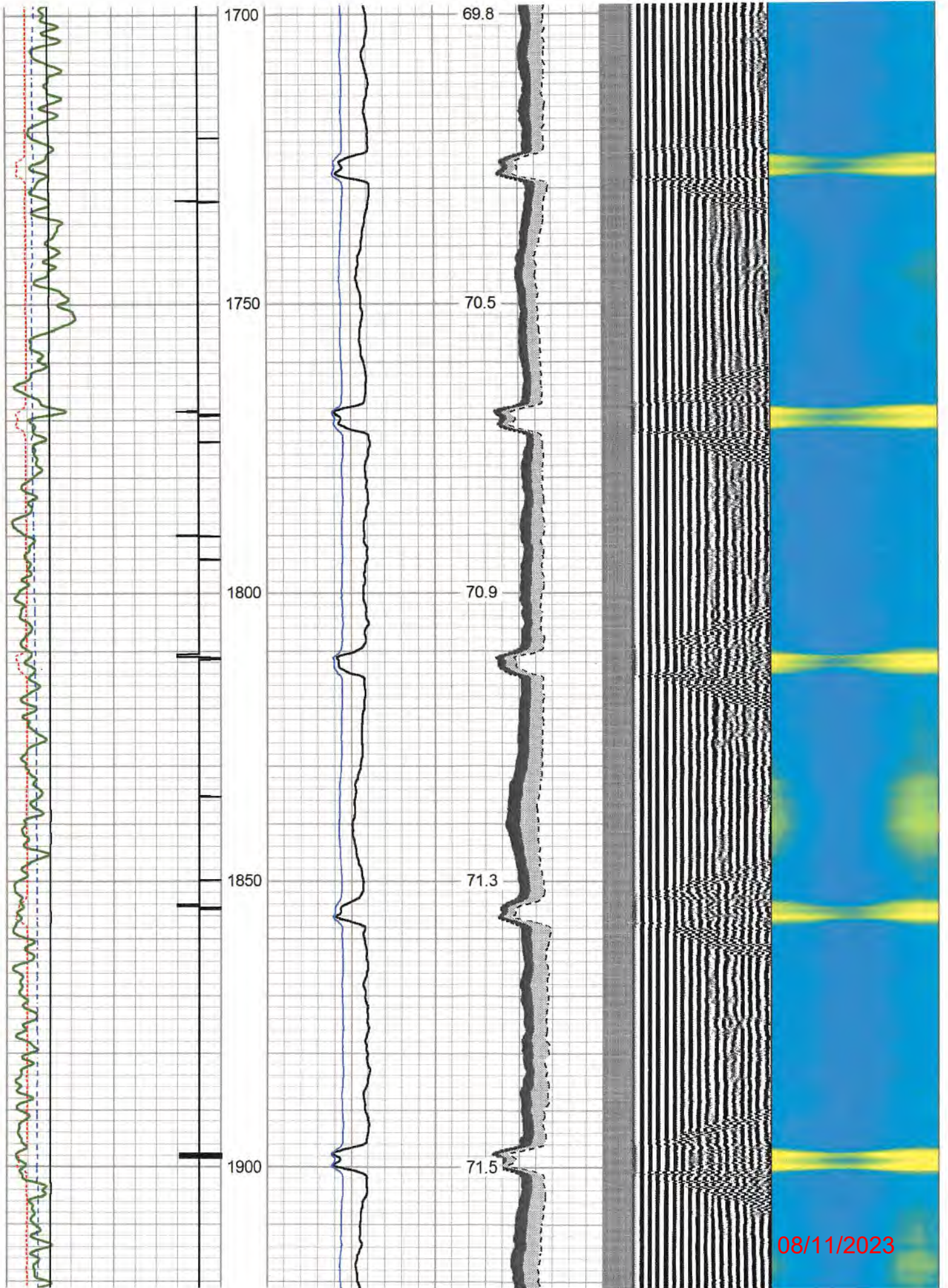


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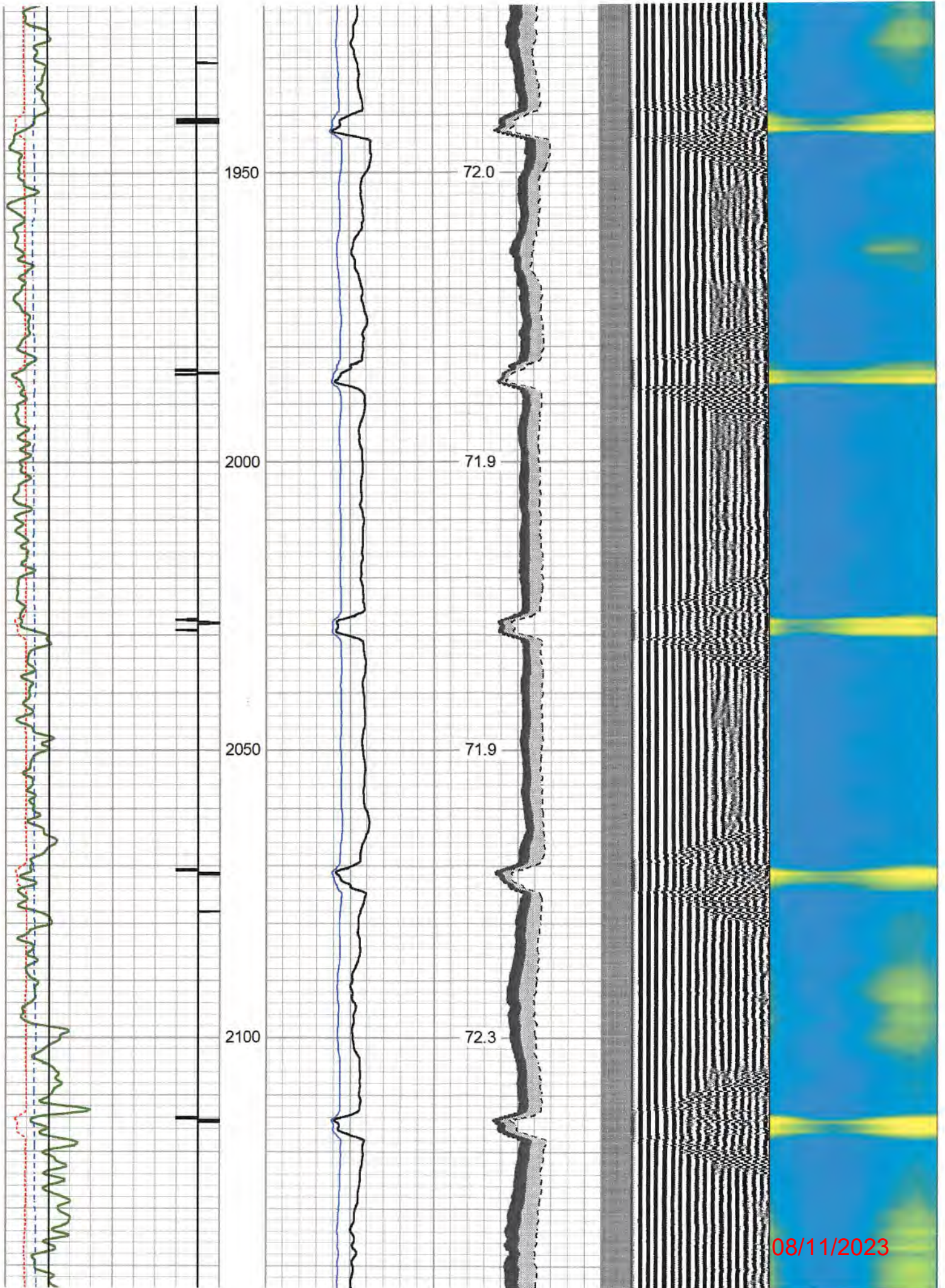


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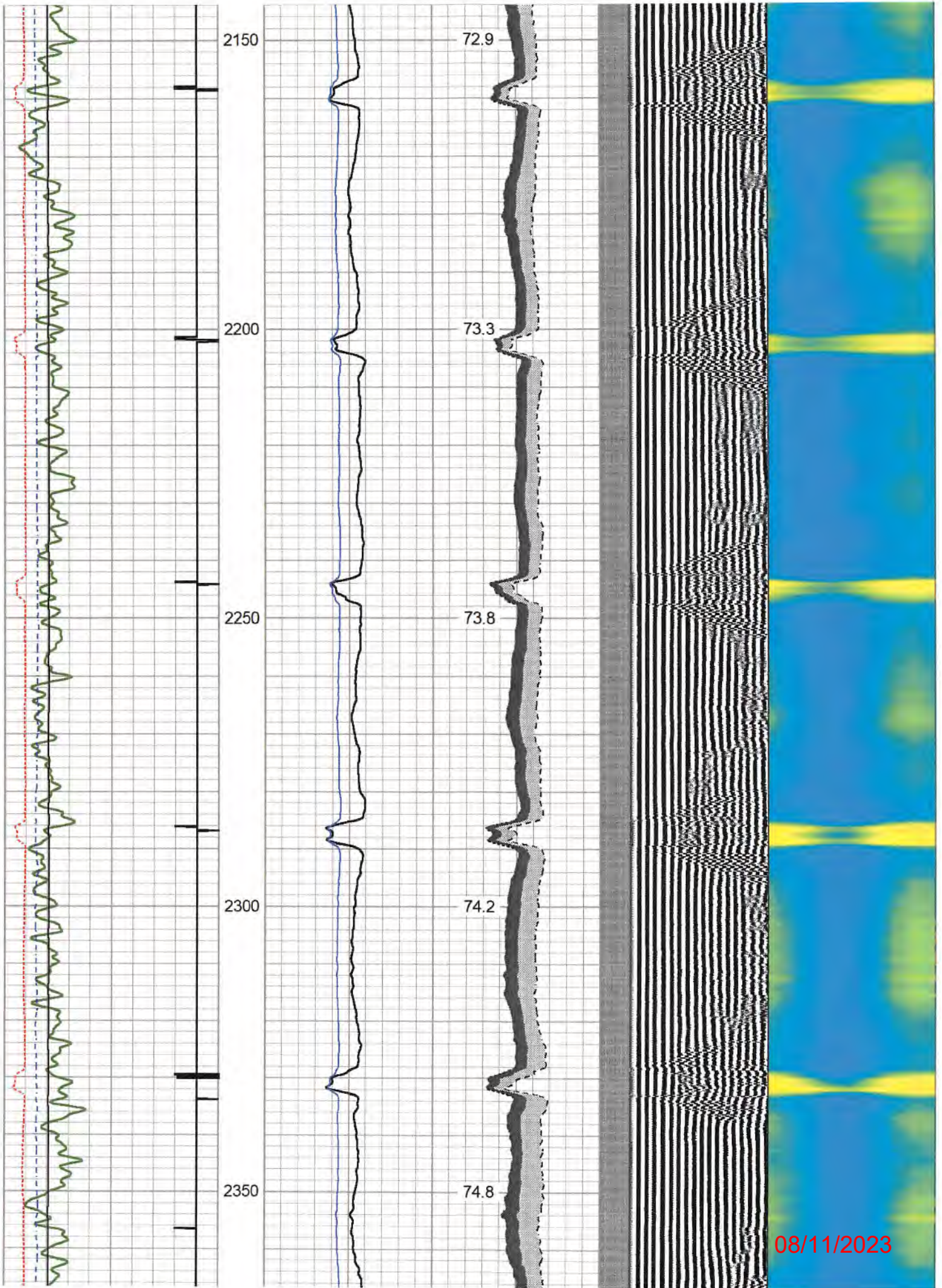




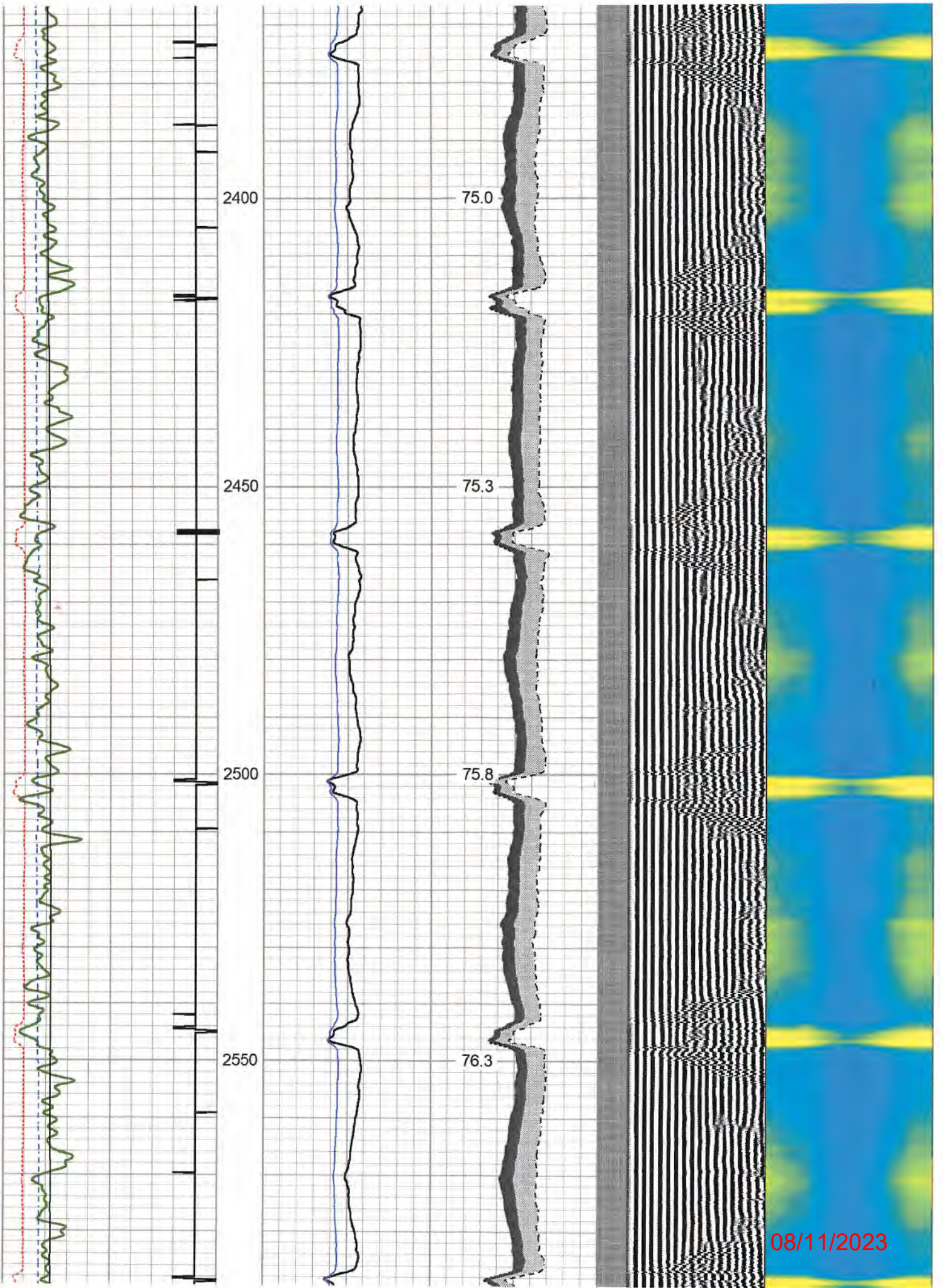
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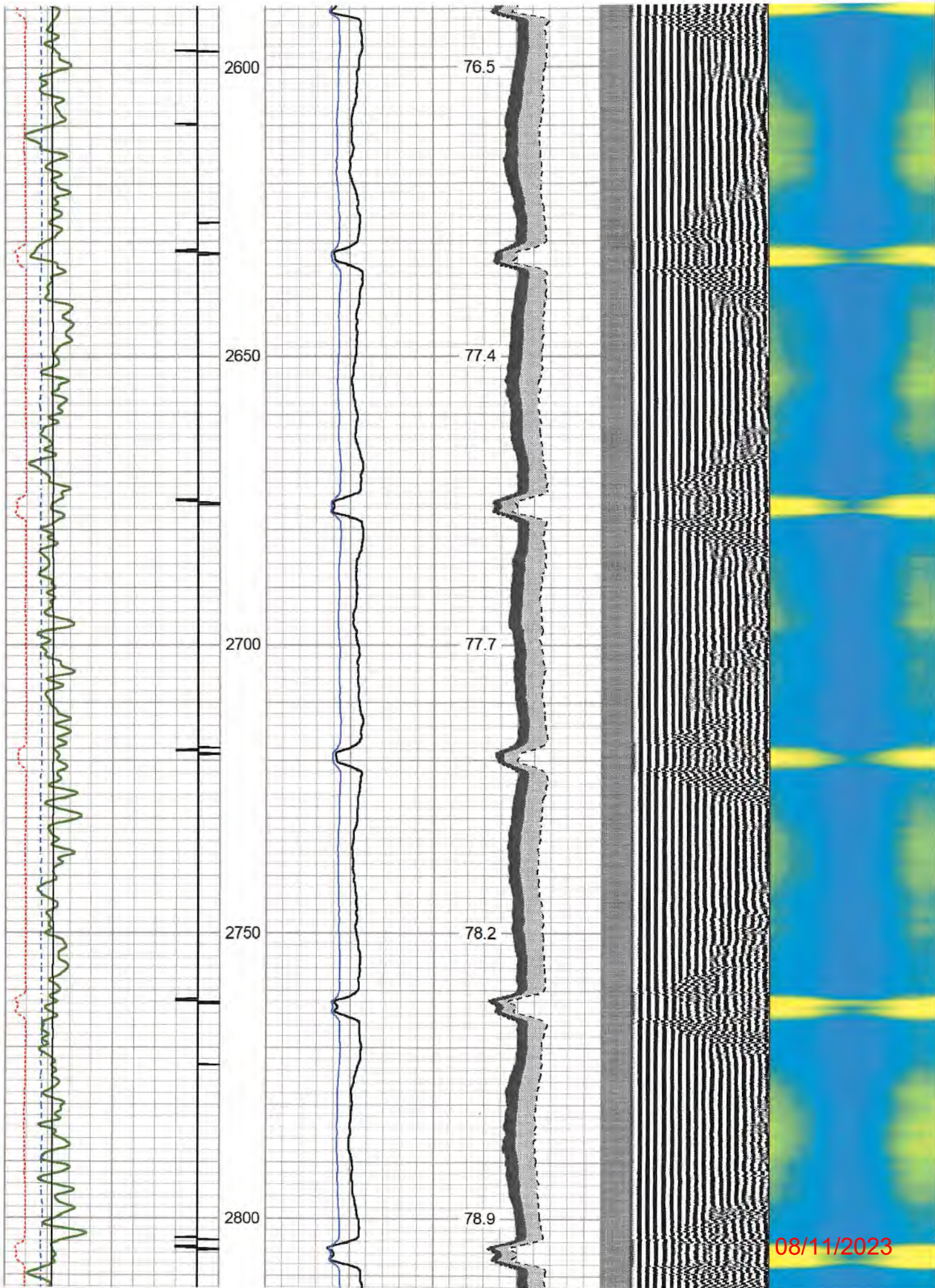


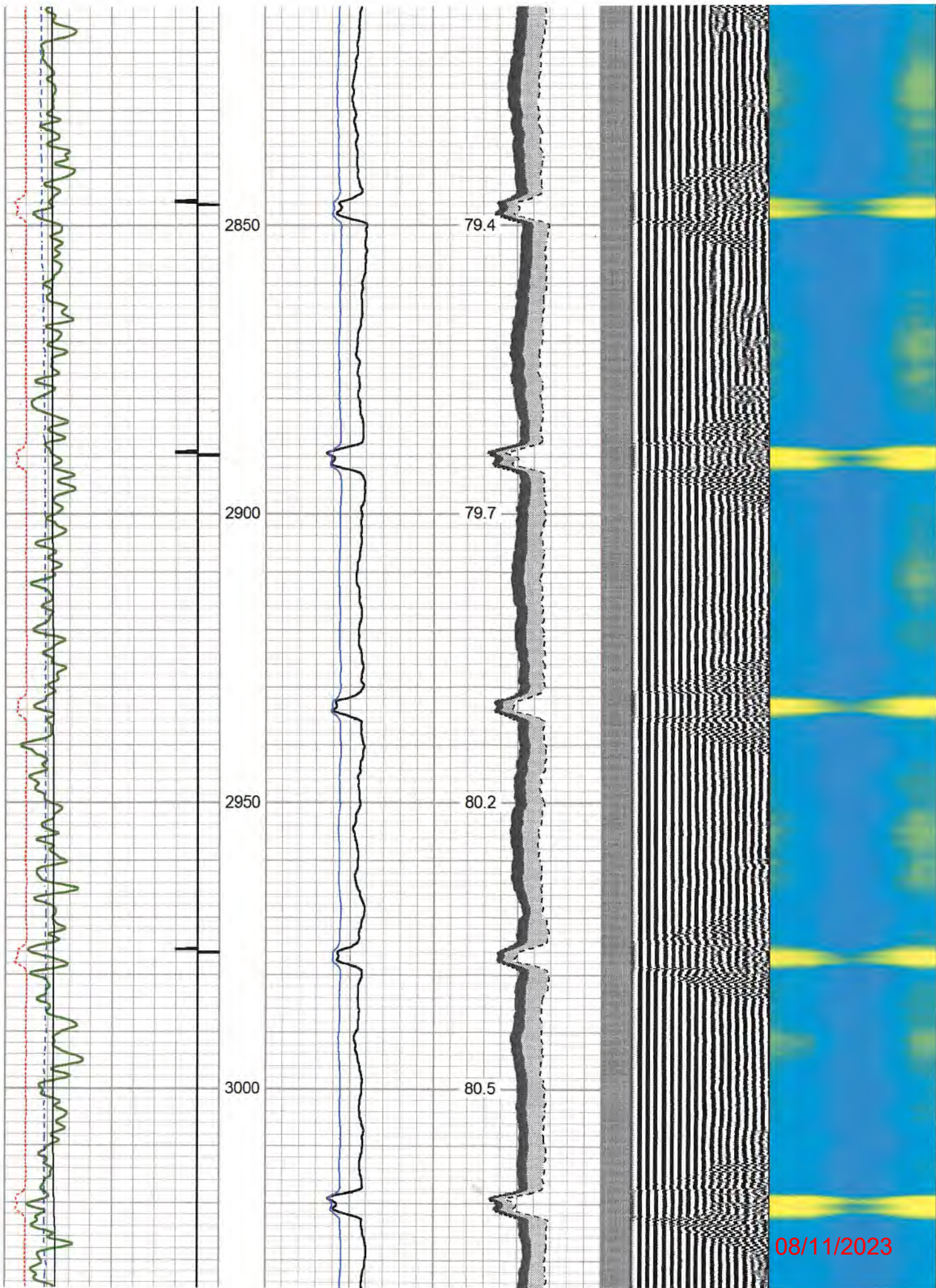
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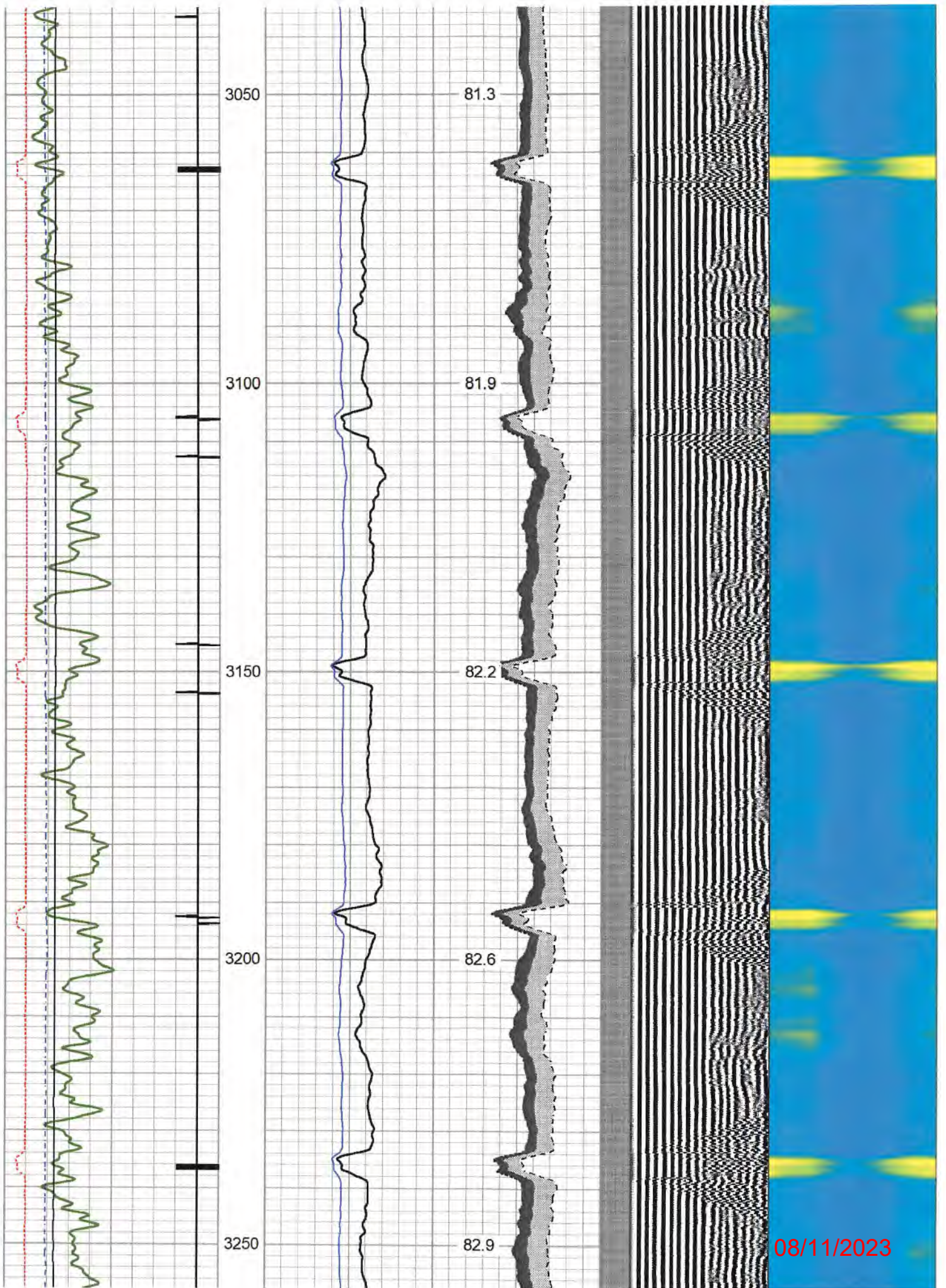
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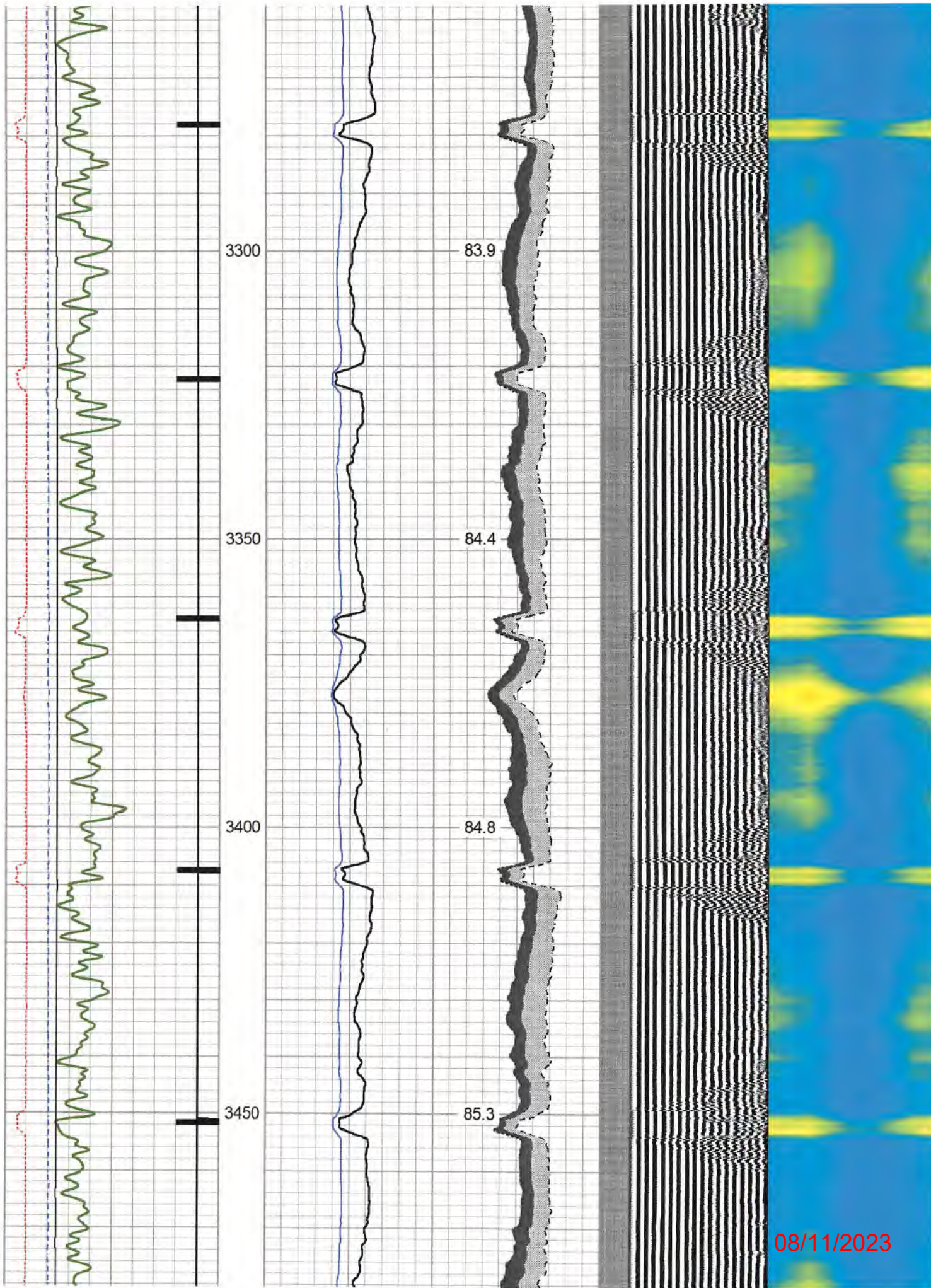




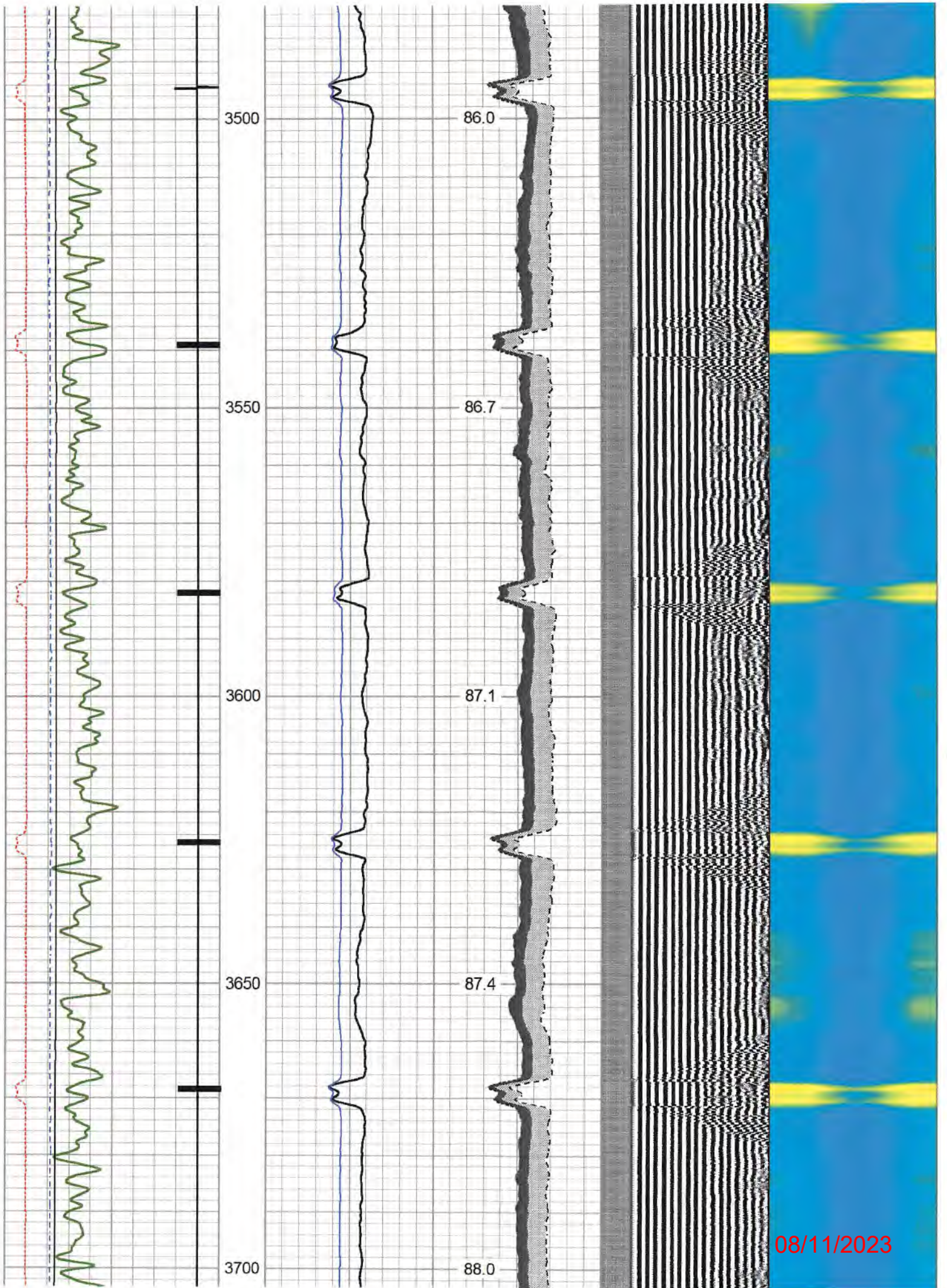
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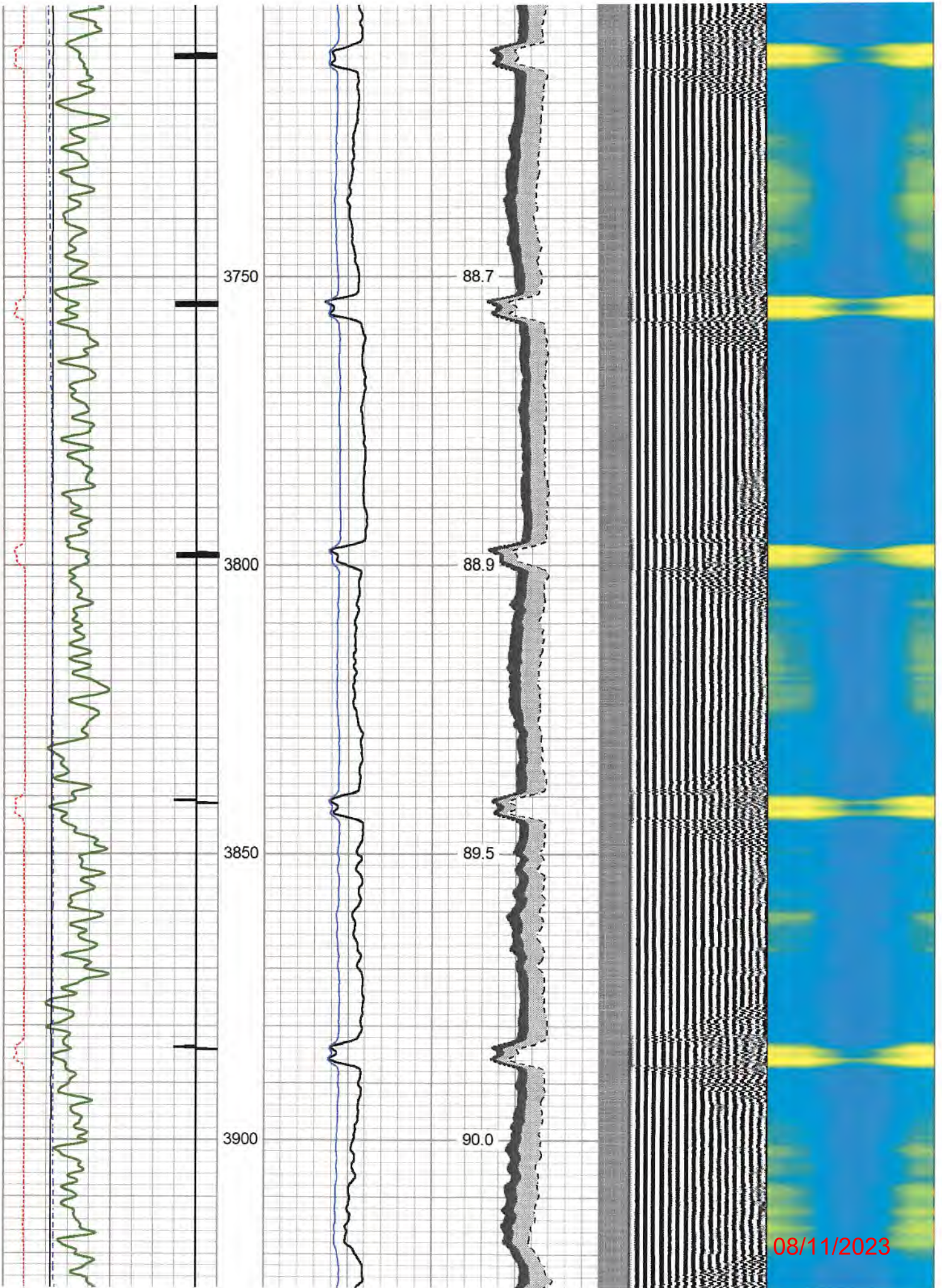
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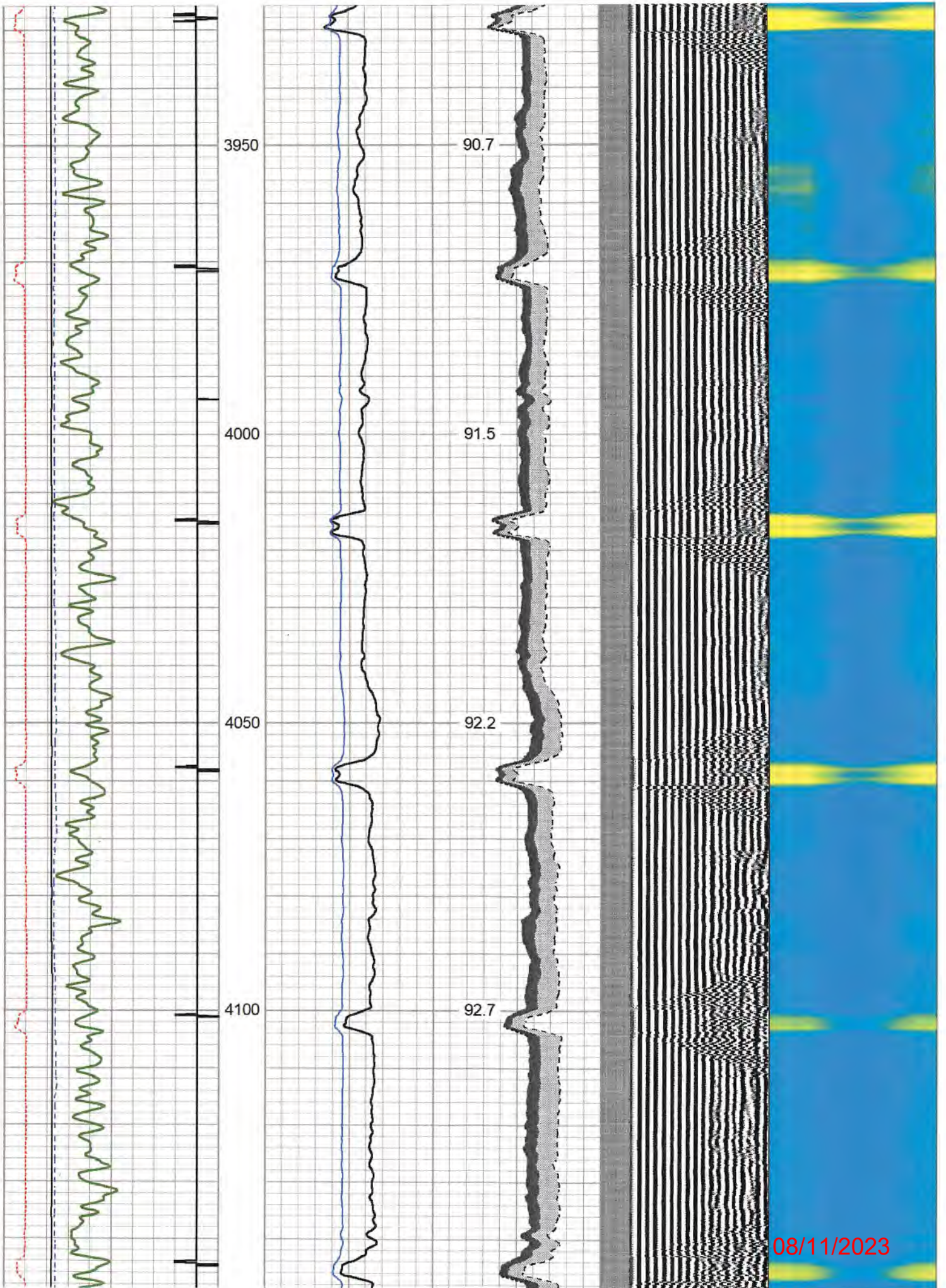
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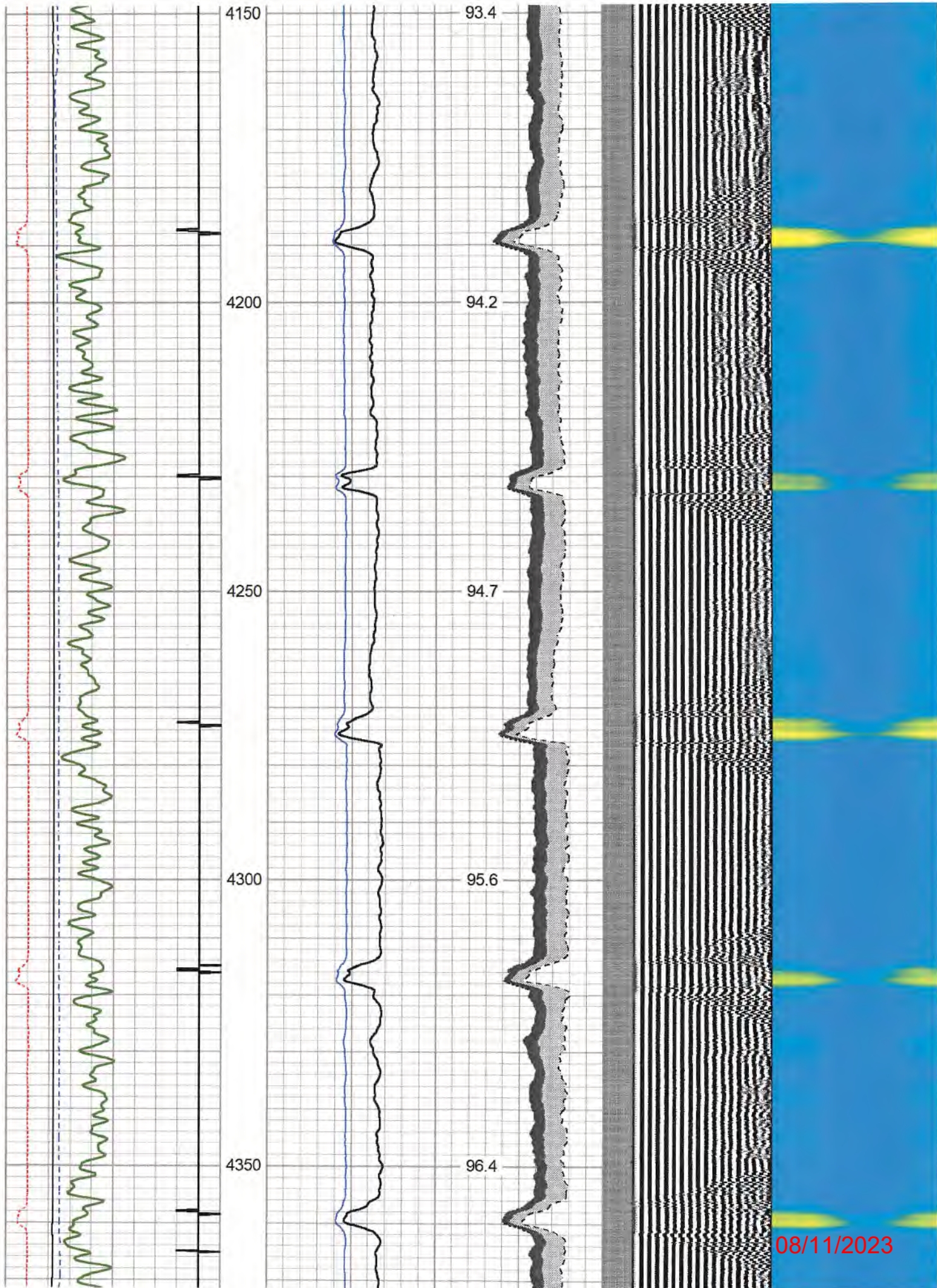


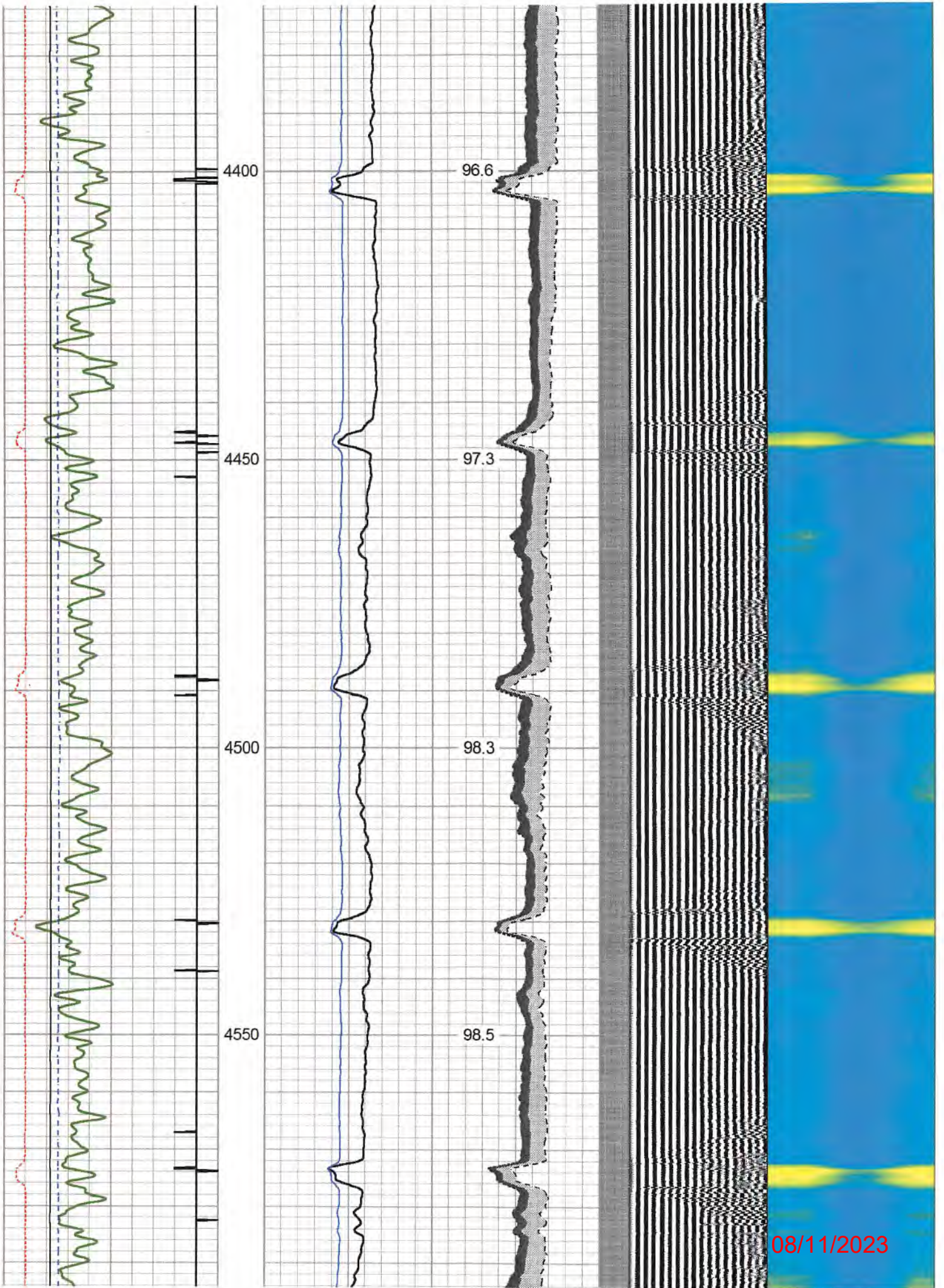
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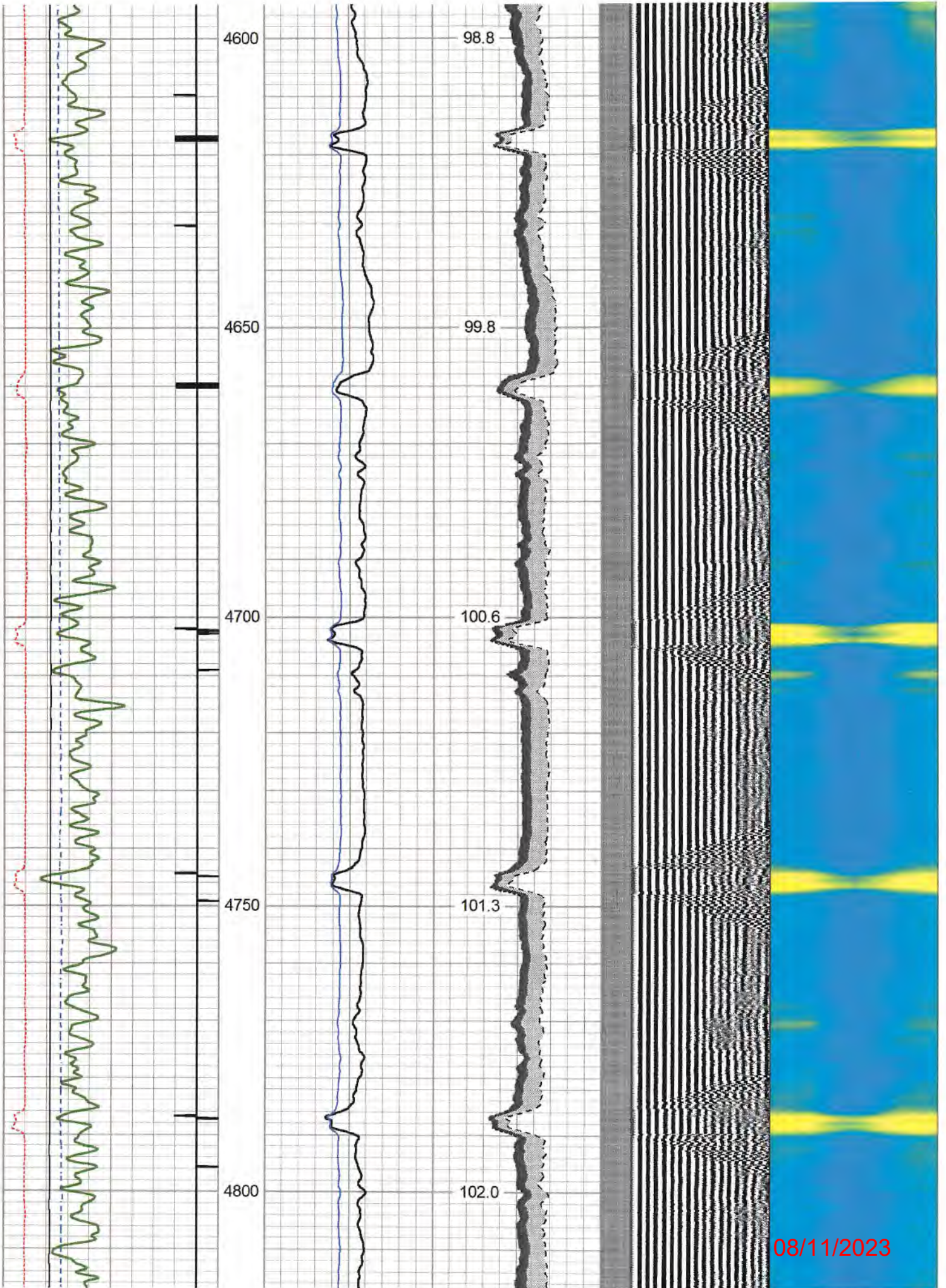
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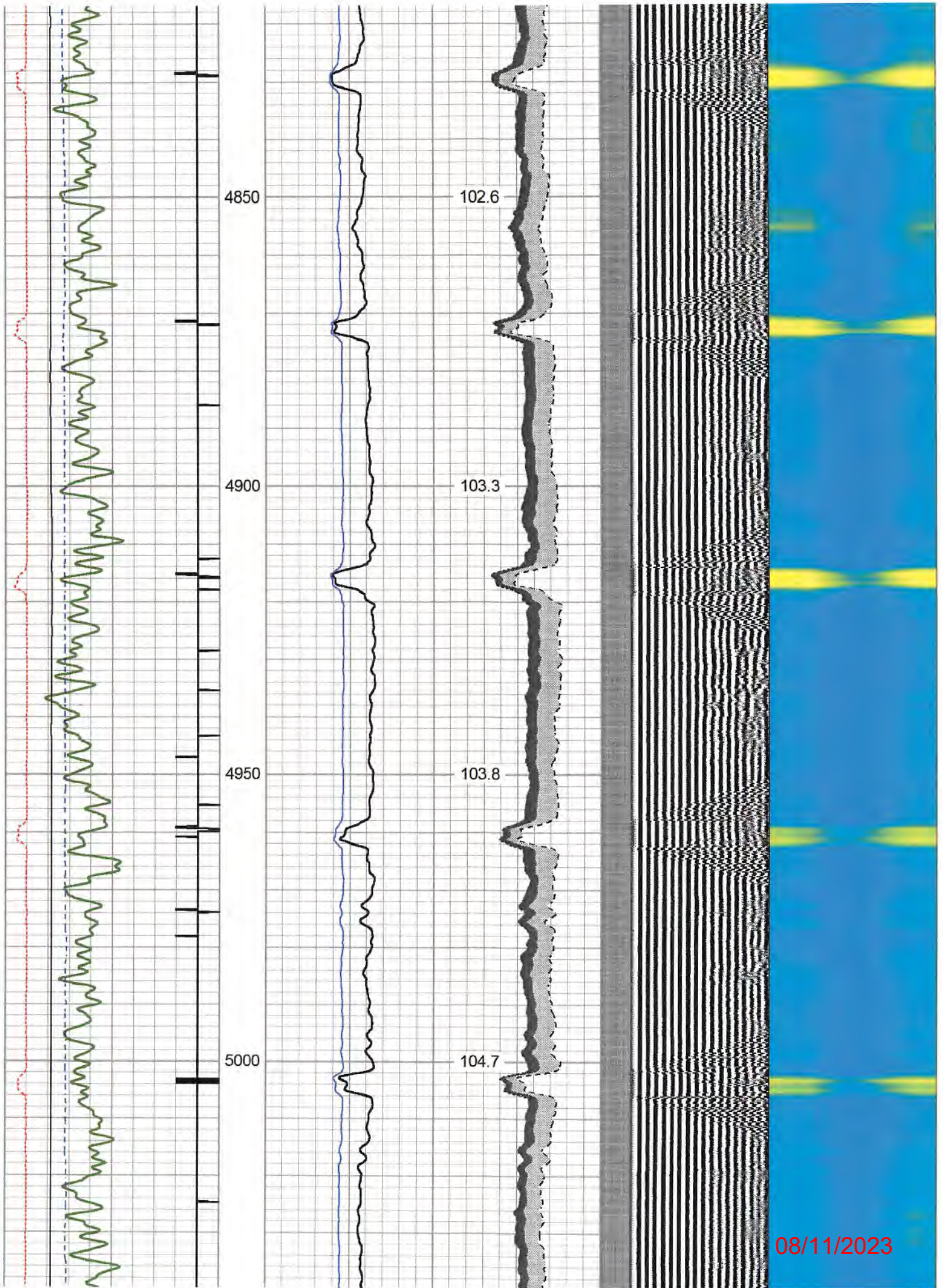




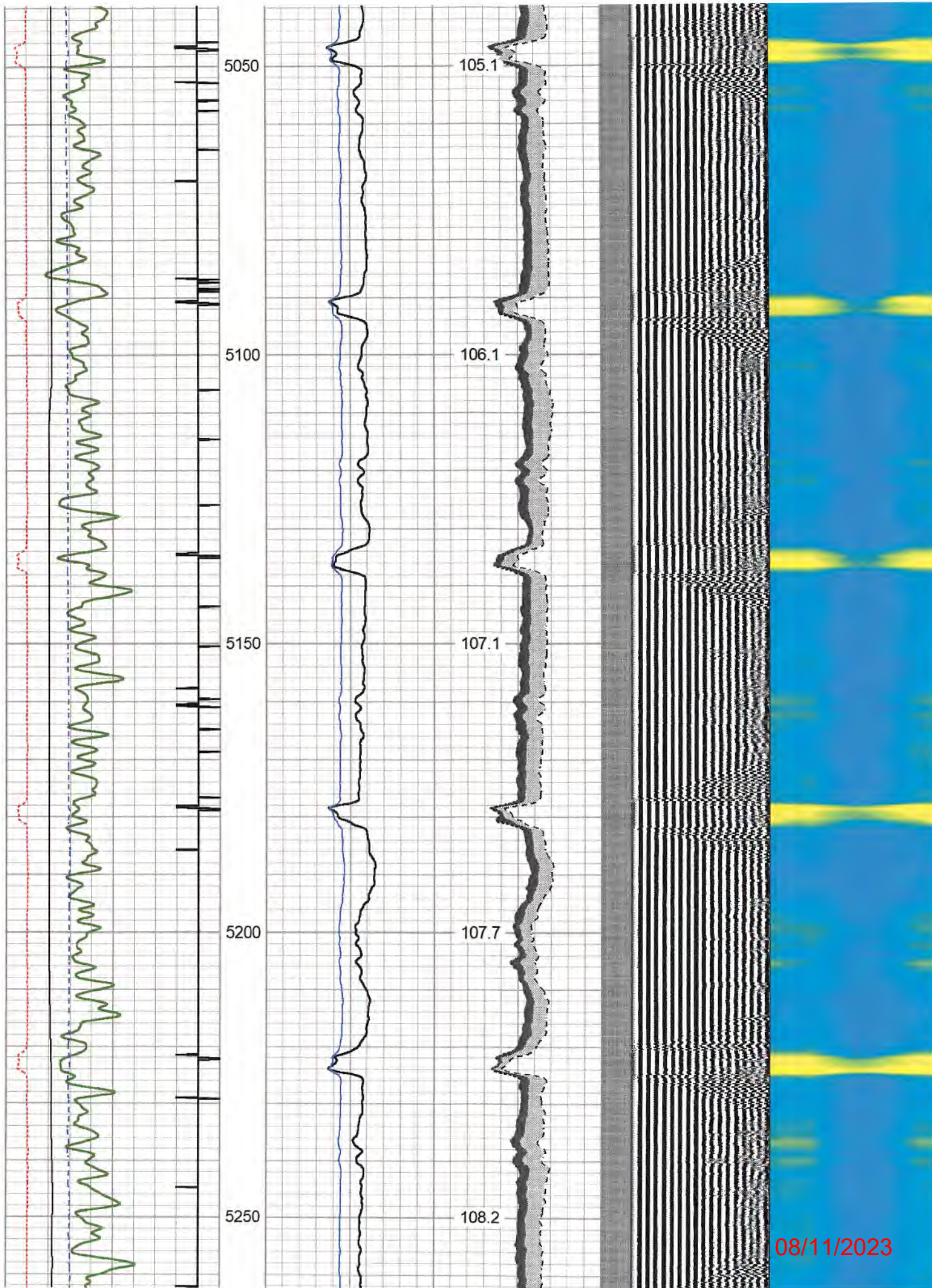
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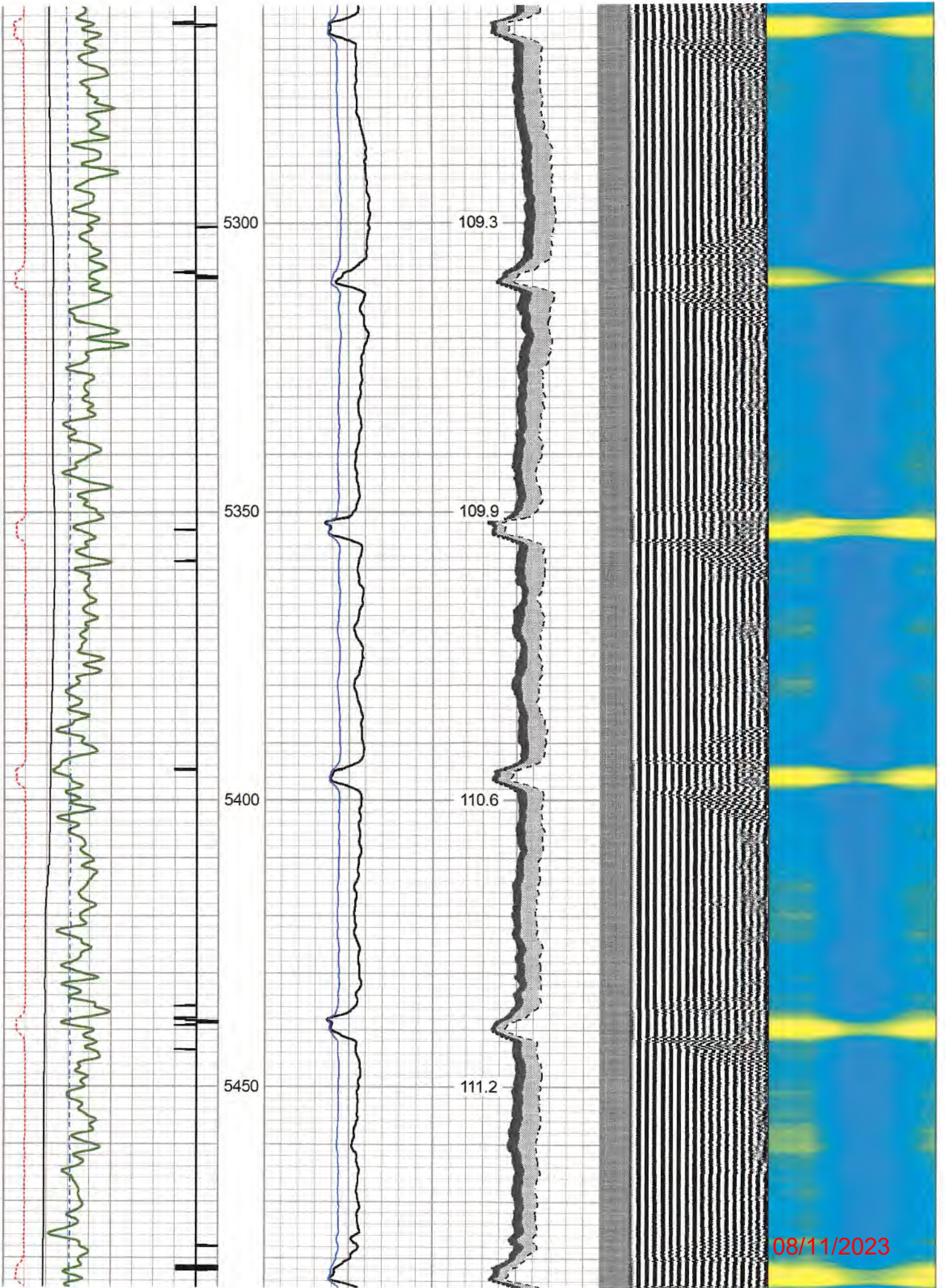
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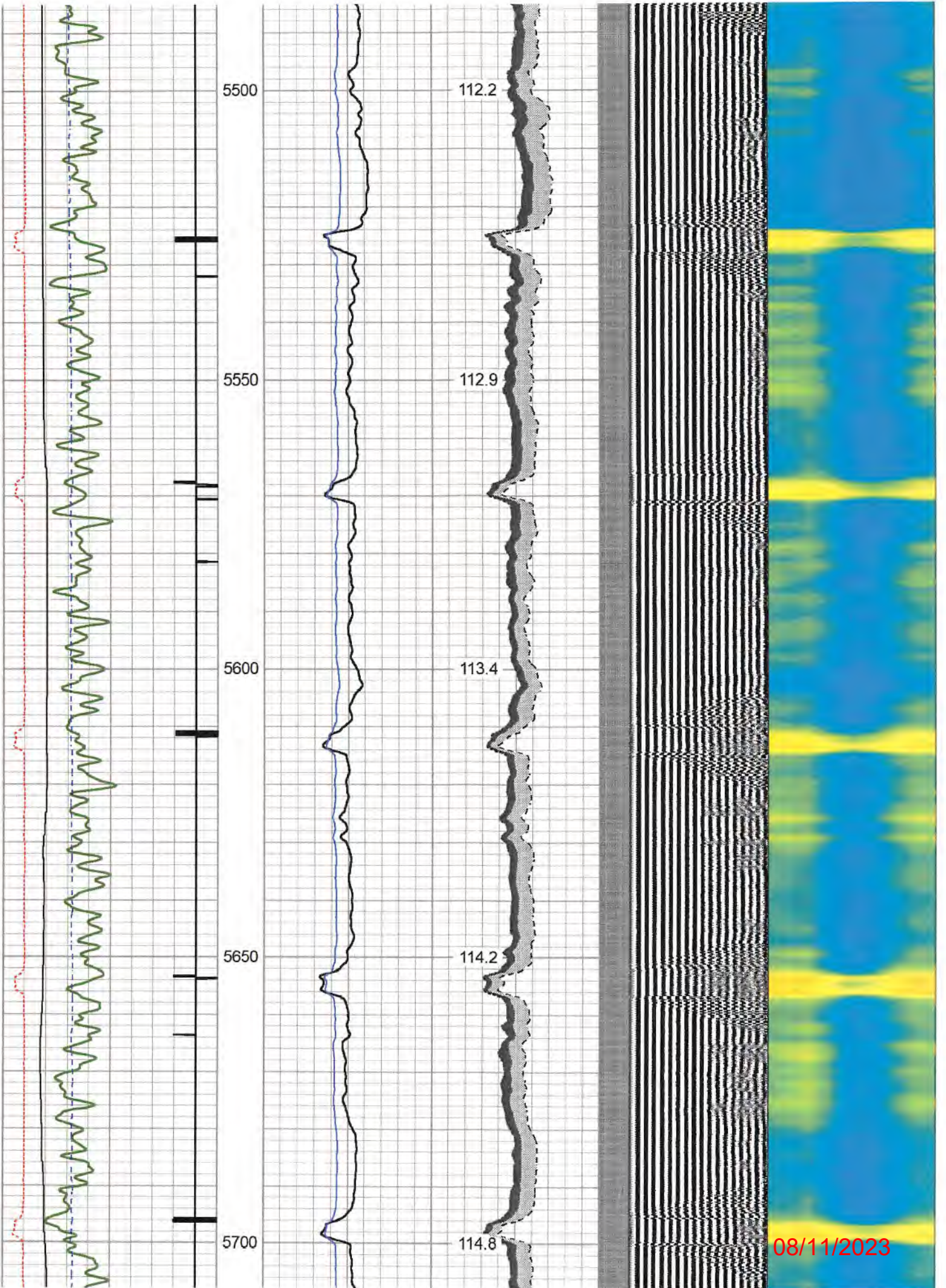


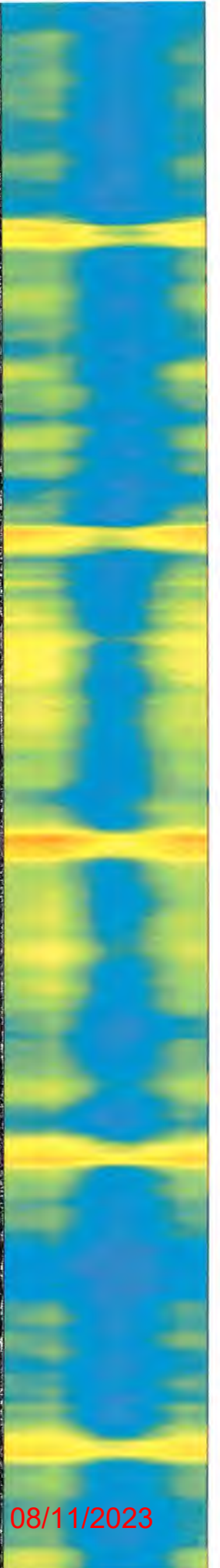
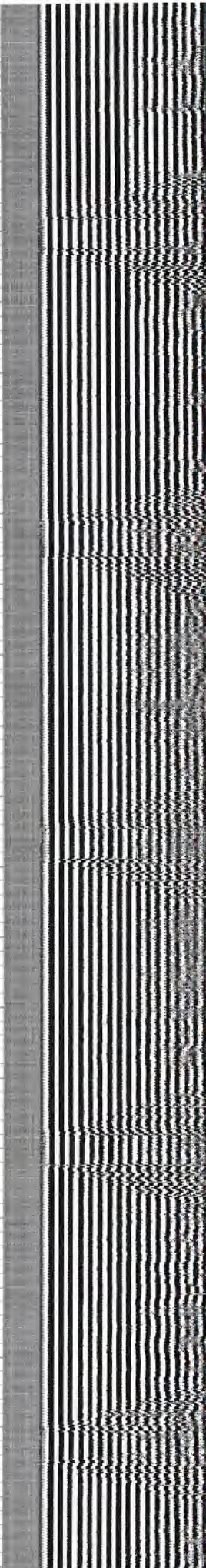
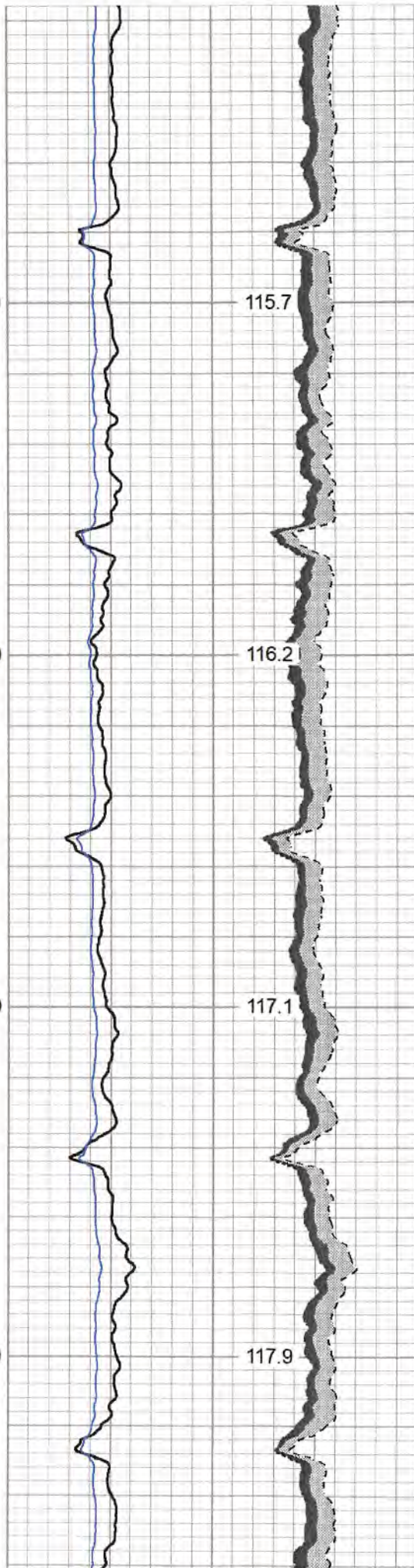
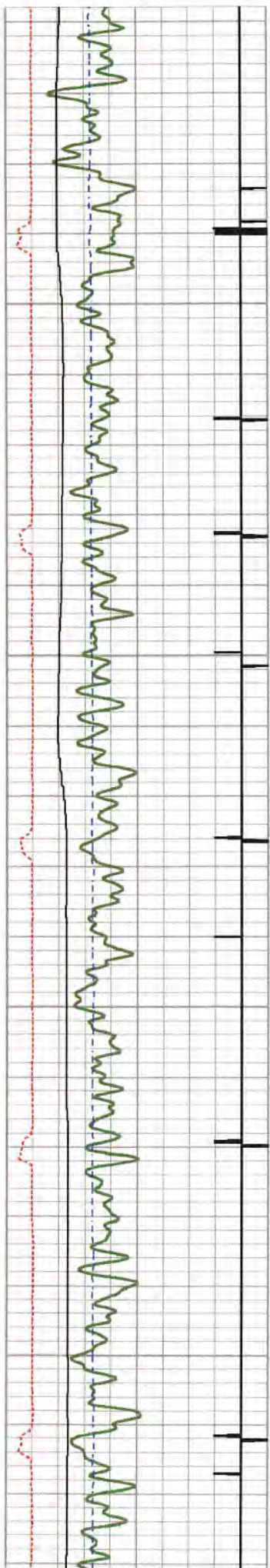
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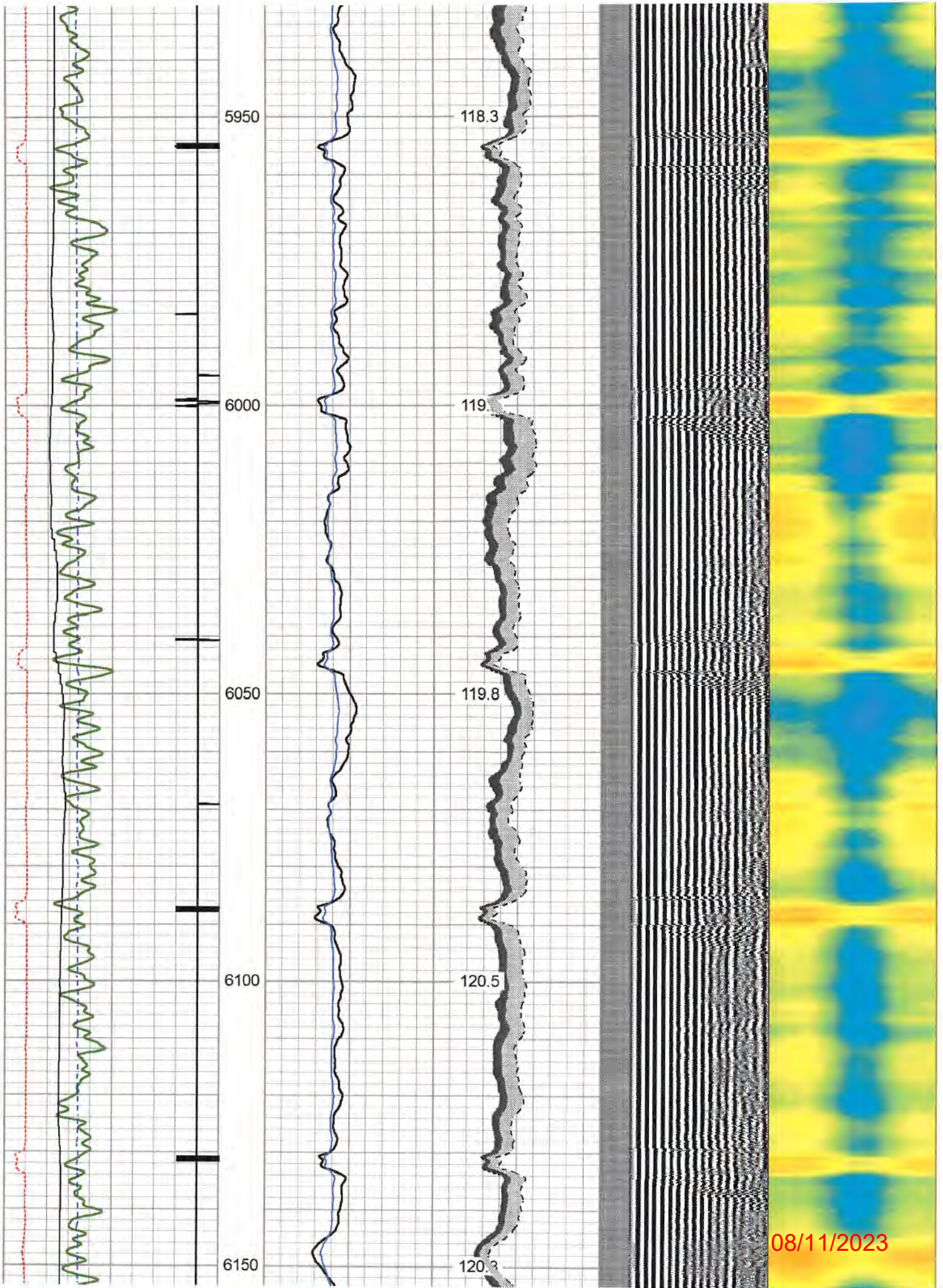
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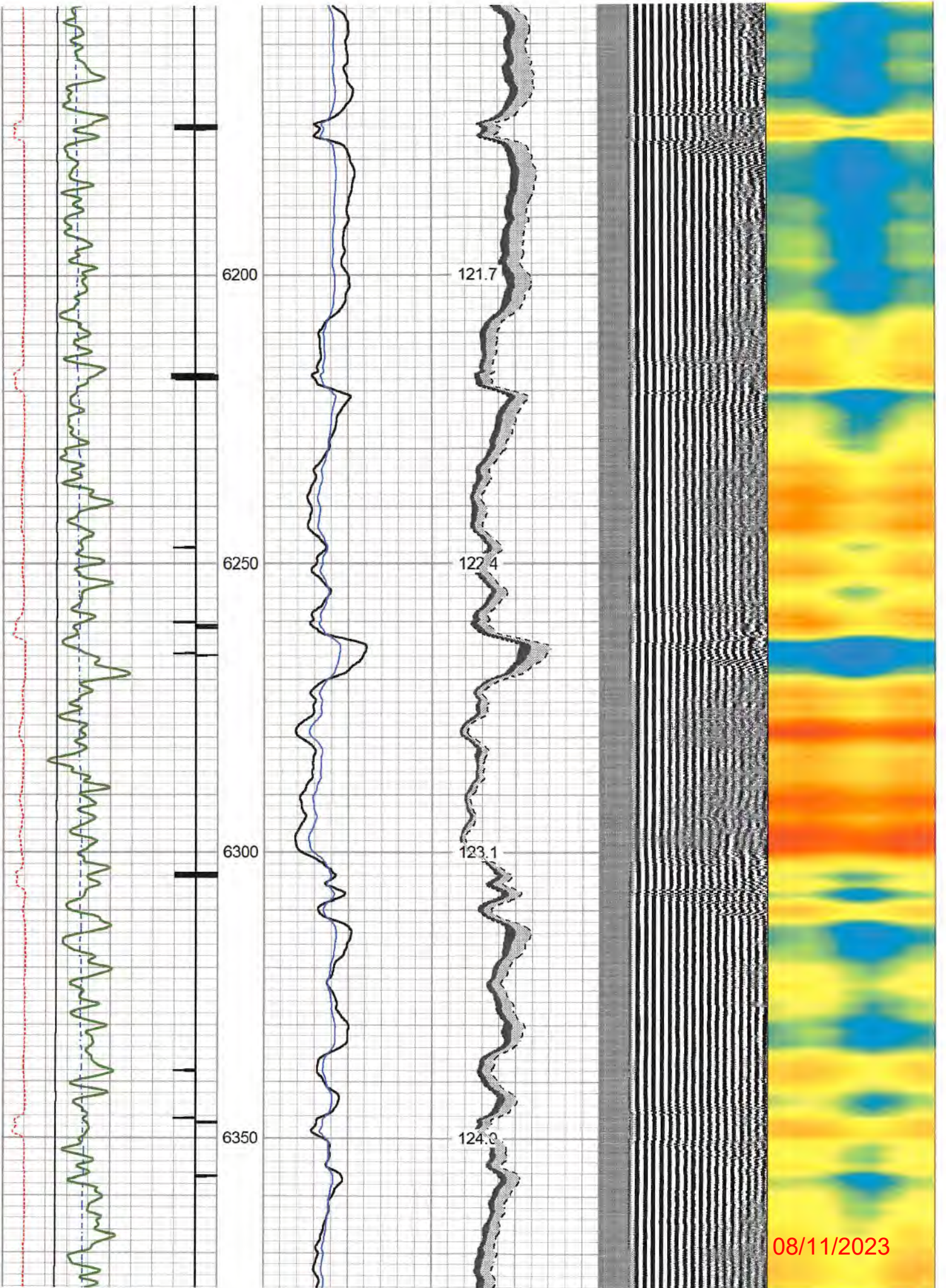




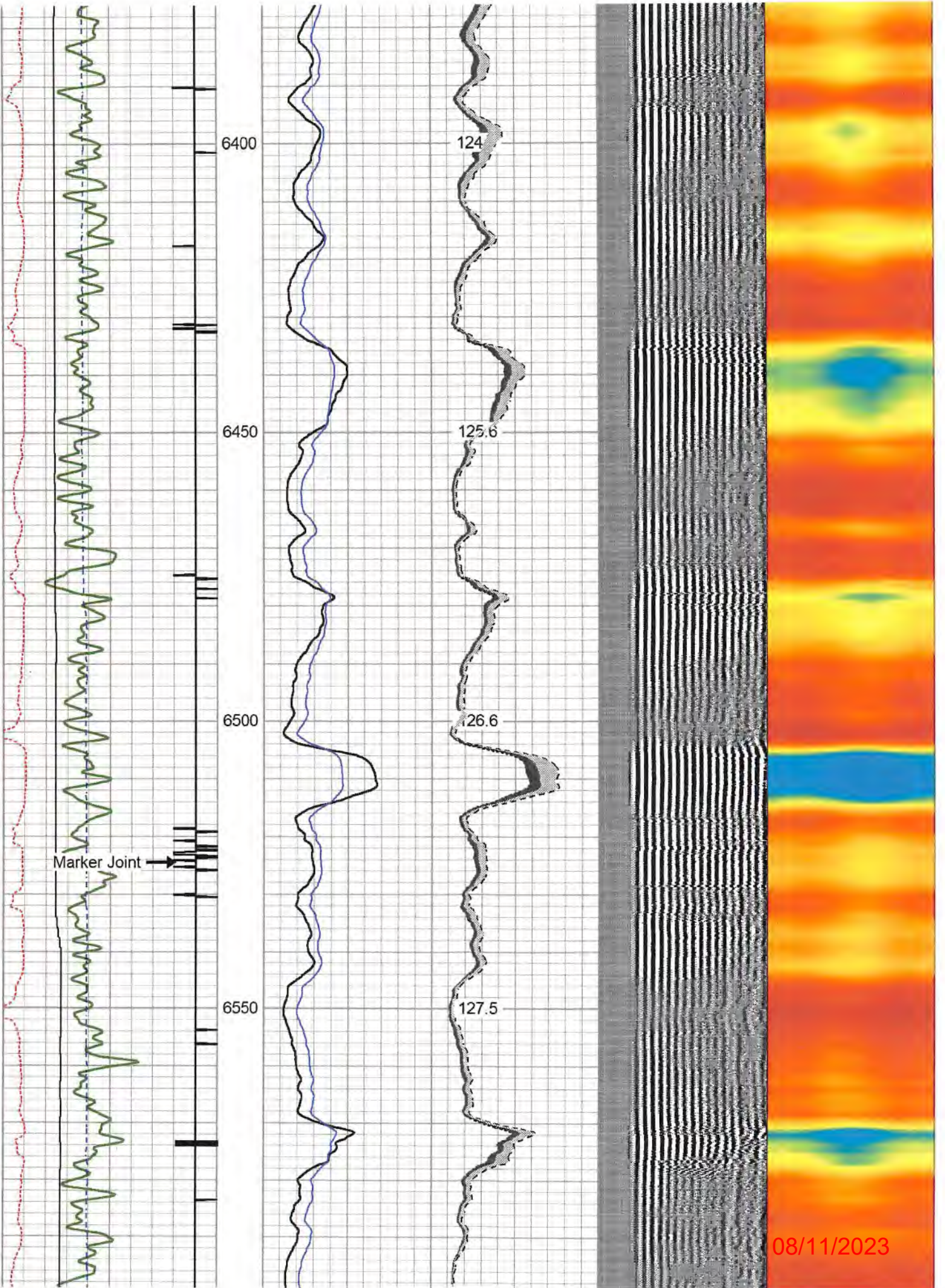
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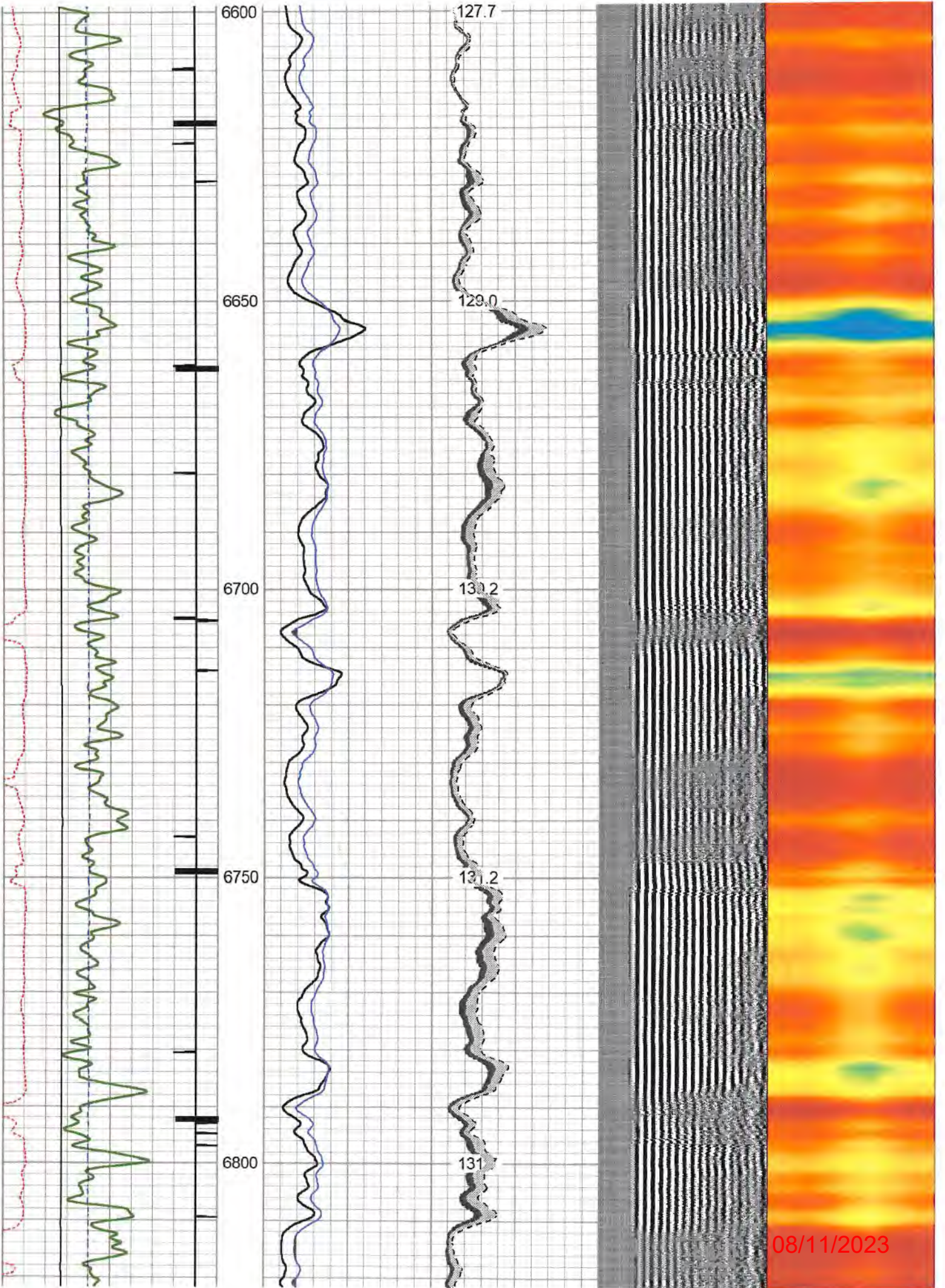


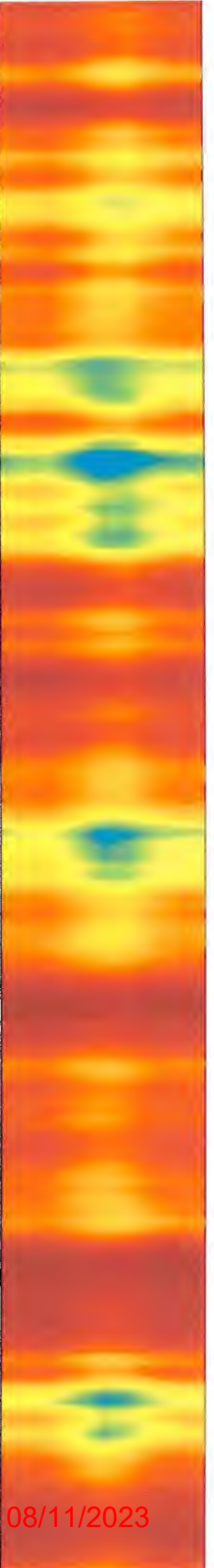
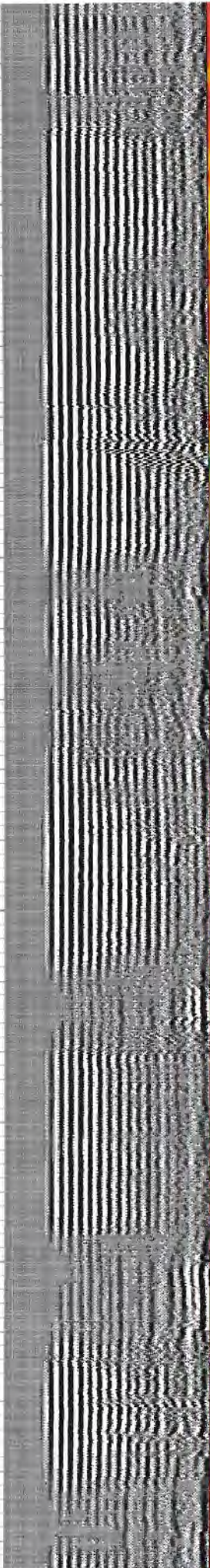
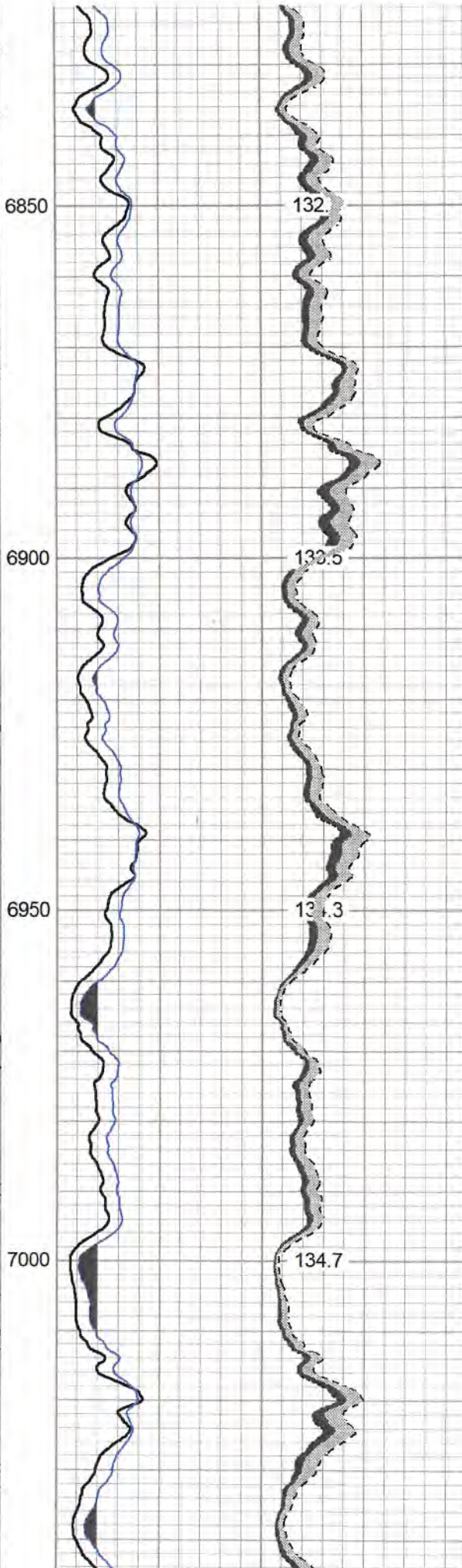
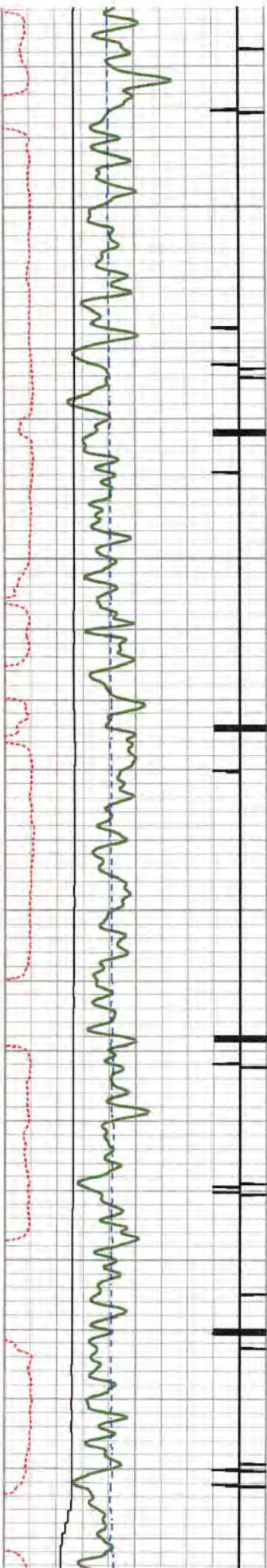
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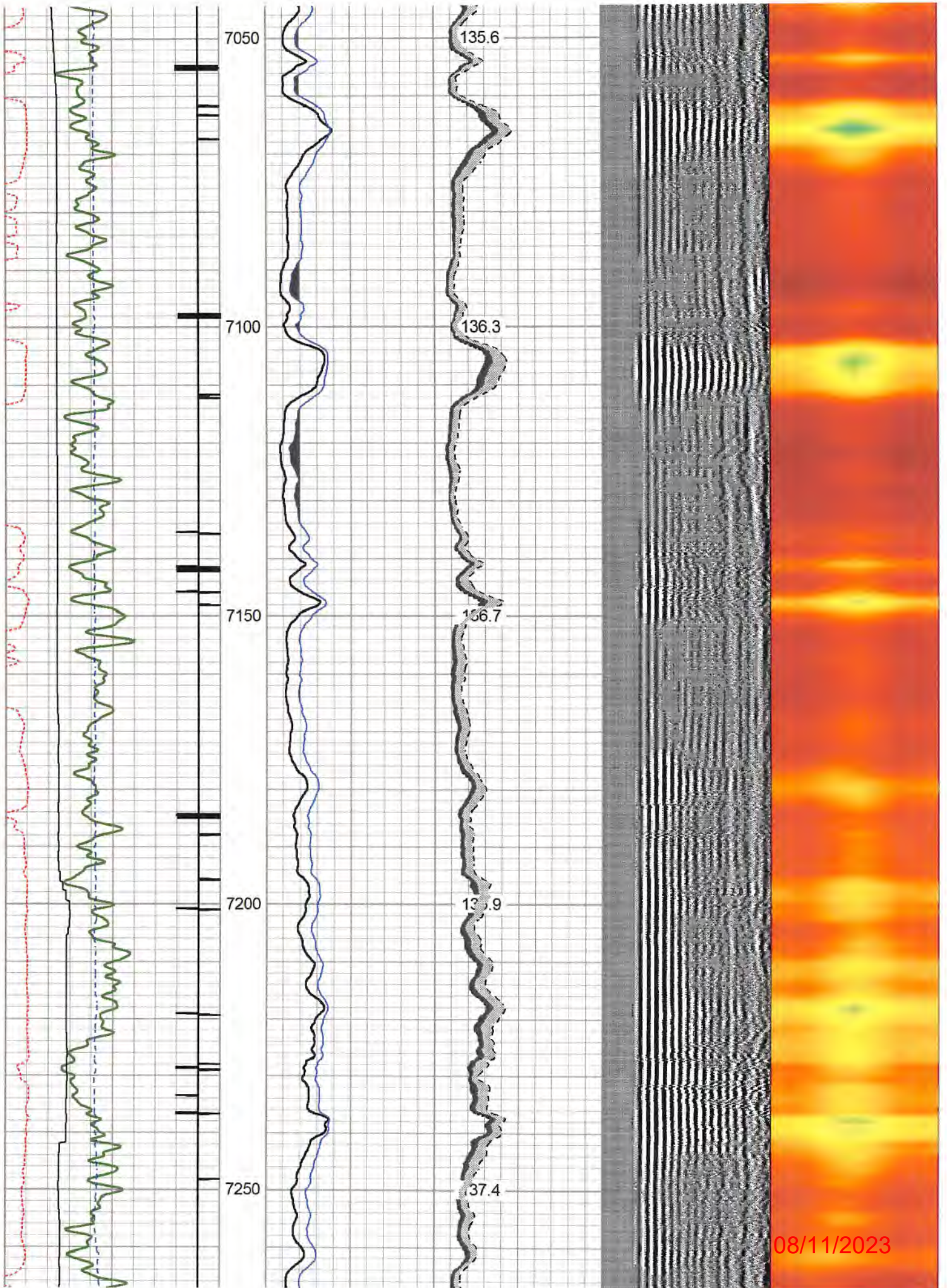
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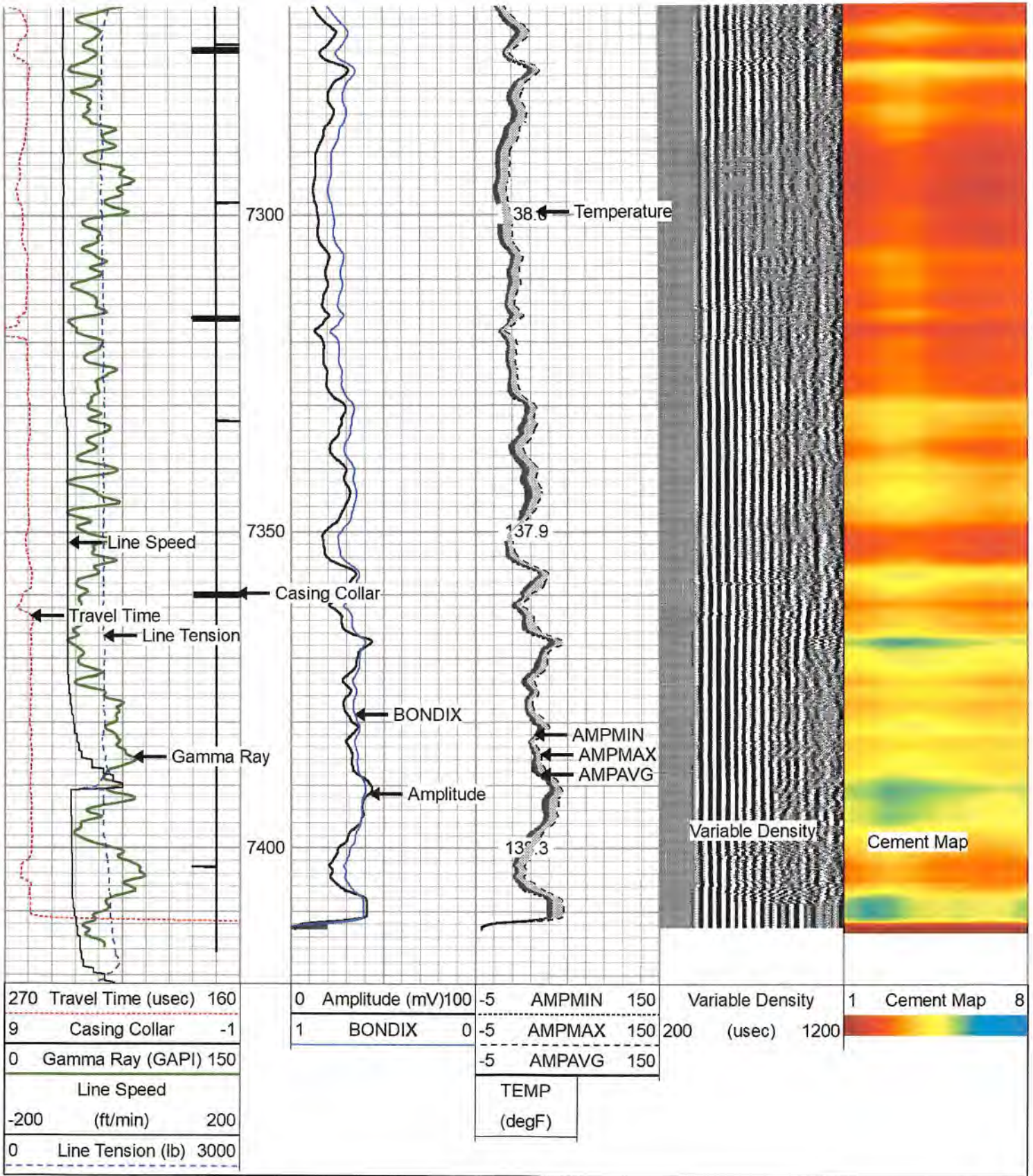






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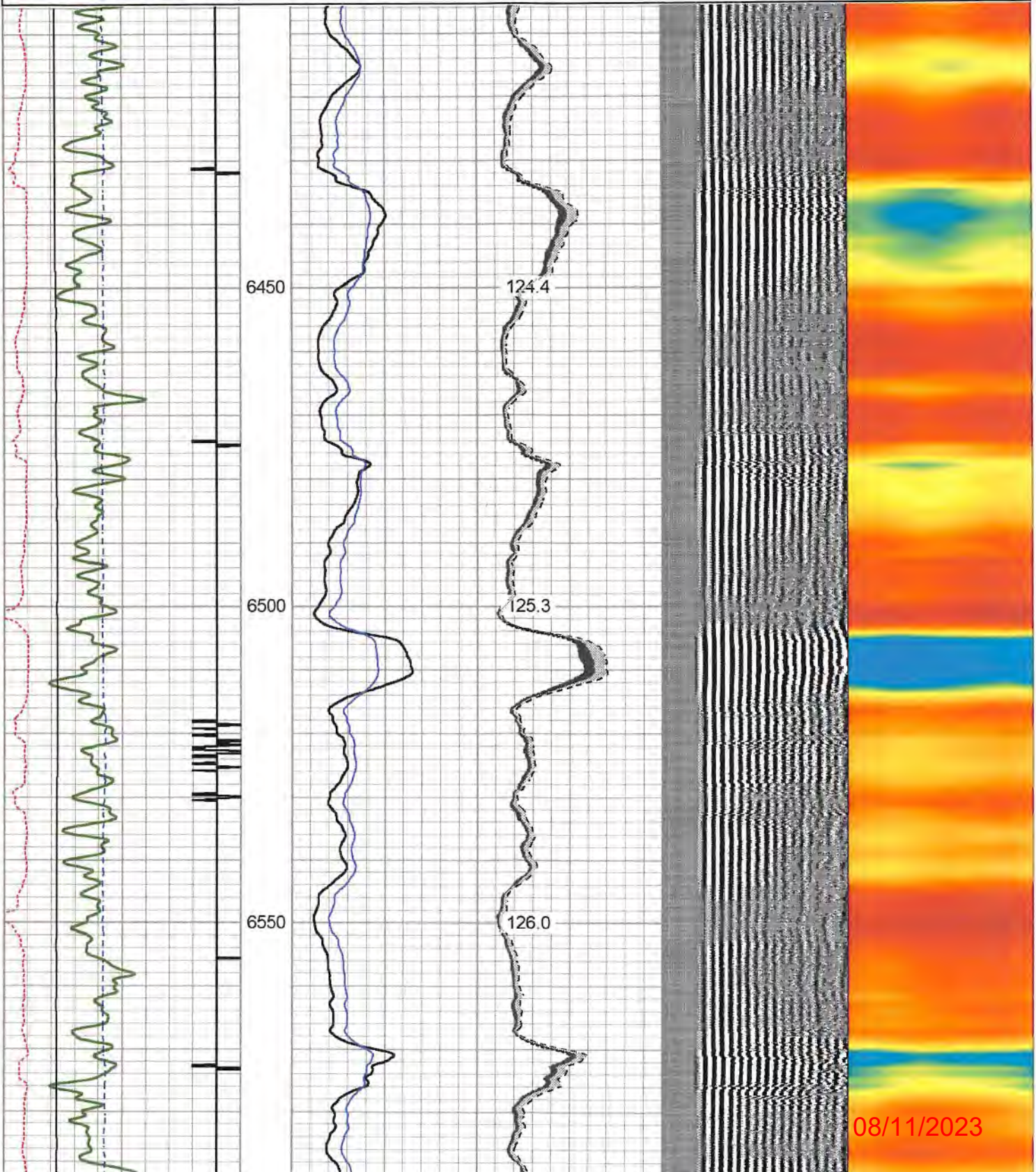


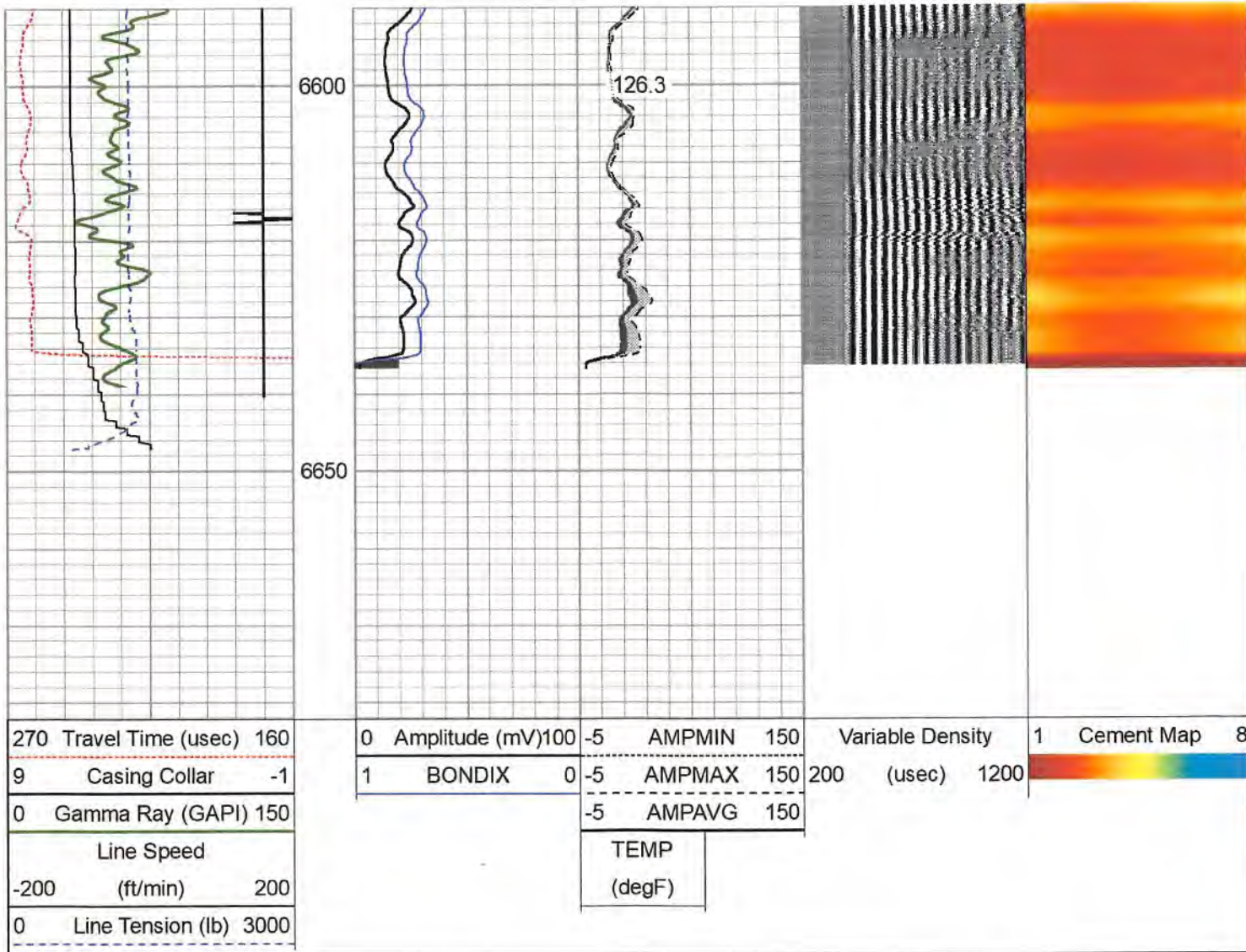
Repeat Pass 0 PSI

270	Travel Time (usec)	160
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
Line Speed		
-200	(ft/min)	200
0	Line Tension (lb)	3000

0	Amplitude (mV)	100	-5	AMPMIN	150
1	BONDIX	0	-5	AMPMAX	150
			-5	AMPAVG	150
TEMP					
(degF)					

Variable Density	1	Cement Map	8
200	(usec)	1200	





Log Variables

DatabaseC:\ProgramData\Warrior\Data\antero_folger_3h_rcbl_17_sep_2022.db
Dataset river_front/folger_3h/run1/pass6/_vars_

Top - Bottom							
BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL
TEMP	in	degF	in	in	lb/ft	mV	mV
	7.875	137	5.5	0.415	23	71.9	3.4
MINATTN	PERFS	PPT	SRFTEMP	TDEPTH			
db/ft		usec	degF	ft			
9.6	No	261	65	7004			

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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Gamma Ray Calibration Report

Serial Number: 275
 Tool Model: Probe
 Performed: Thu Apr 07 08:17:10 2016

Calibrator Value: 100.0 GAPI

Background Reading: 35.0 cps
 Calibrator Reading: 160.0 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: 191.158 ft

Master Calibration, performed Fri Sep 16 00:13:48 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.010	0.704	3.400	71.921	98.818	2.382
CAL	0.846	0.967				
5'	0.008	0.702	3.400	71.921	98.785	2.608
SUM						
S1	0.001	0.722	0.000	100.000	138.577	-0.101
S2	0.002	0.691	0.000	100.000	145.135	-0.243
S3	0.001	0.753	0.000	100.000	132.905	-0.120
S4	0.000	0.728	0.000	100.000	137.364	-0.042
S5	-0.000	0.681	0.000	100.000	146.902	0.009
S6	-0.000	0.671	0.000	100.000	149.002	0.002
S7	-0.000	0.689	0.000	100.000	145.086	0.062
S8	0.000	0.725	0.000	100.000	138.080	-0.042

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.846	0.967	1.000	0.000

Air Zero Calibration, performed Thu Sep 15 21:55:09 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

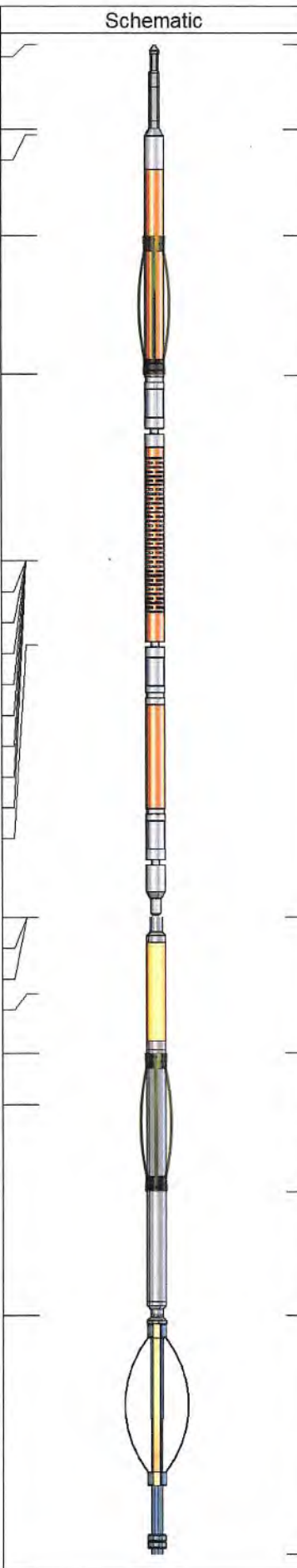
08/10/2023

S8

0.000

0.000

0.000

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
CHD	18.07		CHD-Titan Standard 1 7/16" Cable Head	1.02	1.44	1.00	
RBT HeadVolt	17.05 16.99						
CENT	15.78			CENT-Overbody Antelope (SP-919-0233)	1.67	4.88	5.00
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						
WVFS3	11.91						
WVFS2	11.91						
WVFS1	11.91						
WVF3FT	11.91						
WVF5FT	10.91						
GR WVFCAL HEADVOLT CCL	7.66 7.66 7.66 6.75						
CENT	6.03						
GR	5.42			GR-Probe (275) 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	2.88			CENT-Probe275 2.75" Centralizer	2.88	2.75	20.00

08/11/2023

Total length: 18.07 ft
Total weight: 178.00 lb
O.D.: 4.88 in



Nine

Company	Antero Resources
Well	Eldon Folger 3H
Field	River Front
County	Tyler
State	WV

08/11/2023